MHM

PERMIT SET FOR

MHA Parkside Housing

520 EAST CASTLE STREET,
MURFREESBORO, TN 37130

PROJECT NO.: **21026**

ISSUED: 04/04/2022

CIVIL ENGINEER:

HUDDLESTON-STEELE ENGINEERING, INC.
2112 N.W. BROAD ST.
MURFREESBORO, TN 37129
615.893.4084

BILL HUDDLESTON

LANDSCAPE ARCHITECT:

RAGAN SMITH
100 EAST VINE ST., STE 200
MURFREESBORO, TN 37130
615.546.6050

MATT HAMILTON

STRUCTURAL ENGINEER:

HAINES STRUCTURAL GROUP
800 S. GAY ST., STE 1750
KNOXVILLE, TN 37929
865.329.9920

GEOFF GOODMILLER

MECHANICAL & PLUMBING ENGINEER:

FACILITY SYSTEMS CONSULTANTS
713 S. CENTRAL ST., STE 101
KNOXVILLE, TN 37902
865.246.0164

JOHN KENNY

ELECTRICAL ENGINEER:

FACILITY SYSTEMS CONSULTANTS
713 S. CENTRAL ST., STE 101
KNOXVILLE, TN 37902
865.246.0164

LARRY HEADLA

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PROJECT GENERAL NOTES

OWNER COORDINATION

1. THE CONTRACTOR SHALL MAKE ALL ARRANGEMENTS WITH THE OWNER PERTAINING TO THE USE OF THE BUILDING/SITE ENTRANCES, WORKING HOURS, NOISY WORK, ACCESS TO ADJACENT SPACES, SECURITY, OWNERSHIP OF SALVAGED ITEMS AND OTHER ITEMS DEEMED TO BE OF MUTUAL INTEREST.
2. AVOID INTERRUPTION OF SERVICES (ELECTRICAL, SIGNAL, MECHANICAL, FIRE PROTECTION, LIFE SAFETY, PLUMBING, ETC.) TO OCCUPIED AREAS OF THE BUILDING DURING CONSTRUCTION. IF SERVICE INTERRUPTIONS ARE UNAVOIDABLE, THE CONTRACTOR SHALL NOTIFY AND OBTAIN APPROVAL FROM THE OWNER AND TENANT AT LEAST 24 HOURS PRIOR TO PROCEEDING SUCH WORK.
3. ALL WORK SHALL CONFORM TO ALL INDUSTRY AND MANUFACTURERS' PUBLISHED STANDARDS AND THE OWNER'S REQUIREMENTS FOR QUALITY OF MATERIALS AND WORKMANSHIP AS WELL AS ALL REQUIREMENTS IN THE DOCUMENTS. ANY CONFLICTING REQUIREMENTS OF THE SOURCES LISTED ABOVE SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT BEFORE PROCEEDING WITH THE WORK.

PERMITS AND SAFETY

1. THE CONTRACTOR FOR THE PROJECT SHALL BE RESPONSIBLE FOR OBTAINING ALL REQUIRED BUILDING PERMITS.
2. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO ENSURE THE SAFETY OF THE PUBLIC AND THE WORKMEN ON THE JOB AND TO PREVENT ACCIDENTS OR INJURY TO ANY PERSONS ON, ABOUT, OR ADJACENT TO THE PREMISES WHERE THE WORK IS BEING PERFORMED. THE CONTRACTOR SHALL COMPLY WITH ALL OF THE LAWS, ORDINANCES, CODES, RULES AND REGULATIONS RELATIVE TO SAFETY AND THE PREVENTION OF ACCIDENTS.
3. PROVIDE ALL NECESSARY TEMPORARY POWER, LIGHTING, FIRE PROTECTION, ETC, AS REQUIRED DURING CONSTRUCTION.
4. DO NOT OBSTRUCT ACCESS TO EXISTING EXITS OR REDUCE THE WIDTH OF EXIT ACCESS CORRIDORS AND HALLWAYS.

CONSTRUCTION COORDINATION

1. THE CONTRACTOR IS RESPONSIBLE FOR THE COORDINATION OF ALL PARTS OF THE WORK STATED OR IMPLIED SO THAT NO WORK IS LEFT IN AN UNFINISHED OR INCOMPLETE CONDITION.
2. WHERE SPECIAL COORDINATION IS NECESSARY, PREPARE MEMORANDA FOR DISTRIBUTION TO EACH PARTY INVOLVED OUTLINING SPECIAL PROCEDURES REQUIRED FOR COORDINATION. INCLUDE SUCH ITEMS AS REQUIRED NOTICES, REPORTS, AND ATTENDANCE AT MEETINGS.
3. COORDINATE CONSTRUCTION ACTIVITIES INDICATED ON CONTRACT DOCUMENTS TO ASSURE EFFICIENT, ORDERLY, COMPLETE AND OPERATIONAL INSTALLATIONS OF EACH PART OF THE WORK. COORDINATE CONSTRUCTION OPERATIONS THAT ARE DEPENDENT UPON EACH OTHER FOR PROPER INSTALLATION, CONNECTION, AND OPERATION. WHERE MATERIALS APPLIED TO, OR ARE IN DIRECT CONTACT WITH, WORK INSTALLED BY ANOTHER SUBCONTRACTOR, COMMENCEMENT OF WORK IMPLIES ACCEPTANCE OF THE SUBSTRATE AS SUITABLE FOR THE APPLICATION INTENDED.
4. CONFINE OPERATIONS TO AREAS WITHIN CONTRACT LIMITS INDICATED. PORTIONS OF THE SITE BEYOND AREAS IN WHICH CONSTRUCTION IS INDICATED ARE NOT TO BE DISTURBED.
5. WHERE AVAILABILITY OF SPACE IS LIMITED, COORDINATE INSTALLATION OF DIFFERENT COMPONENTS TO ASSURE MAXIMUM ACCESSIBILITY OF REQUIRED MAINTENANCE, SERVICE AND REPAIR.
6. COORDINATE TRADES TO PATCH FINISHES THAT ARE DAMAGED AS A RESULT OF CUTTING IN OF WORK.
7. COORDINATE INSTALLATION OF DIFFUSERS, SPEAKERS, SPRINKLER HEADS, AND ACCESS PANELS WITH LIGHTING LAYOUT. REPORT ANY CONFLICTS TO THE ARCHITECT PRIOR TO INSTALLATION.
8. EXIT SIGNS AND SMOKE DETECTORS LOCATED IN CEILINGS SHALL BE POSITIONED AS REQUIRED BY THE AUTHORITY HAVING JURISDICTION.

CONTRACT DOCUMENTS

1. REFER TO COMPLETE SET OF ISSUED CONTRACT DOCUMENTS FOR APPLICABLE NOTES, ABBREVIATIONS, AND SYMBOLS. GENERAL NOTES APPEAR ON VARIOUS DRAWINGS FOR DIFFERENT SYSTEMS AND MATERIALS. REVIEW ALL SHEETS AND APPLY NOTES TO RELATED BUILDING COMPONENTS.
2. THE CONTRACTOR SHALL NOTIFY THE ARCHITECT IN WRITING OF ANY OMISSIONS, DISCREPANCIES, AND/OR CONFLICTS IN THE DRAWINGS AND SPECIFICATIONS BEFORE SUBMITTING HIS BID PRICE. THE ARCHITECT WILL CLARIFY THE DOCUMENTS IN AN ADDENDUM. IF ANY ADDENDUM IS NOT ISSUED BEFORE THE BID/PRICE IS SUBMITTED, THE CONTRACTOR'S BID/PRICE SHALL BE BASED ON THE HIGHER QUANTITY AND/OR HIGH QUALITY AND SHALL BE SO NOTED IN HIS BID/PRICE.
3. DO NOT SCALE DRAWINGS. DIMENSIONS GOVERN. IF DIMENSIONS ARE IN QUESTION, OBTAIN CLARIFICATION FROM THE ARCHITECT BEFORE CONTINUING.
4. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS, BENCHMARKS, WORKPOINTS, SPOT ELEVATIONS AND CONDITIONS SHOWN ON THE DRAWINGS AT THE JOB SITE AND SHALL NOTIFY THE ARCHITECT OF ANY OMISSIONS, DISCREPANCIES, AND/OR CONFLICTS BEFORE PROCEEDING WITH THE PROJECT.
5. LARGE SCALE DRAWINGS GOVERN OVER SMALL SCALE DRAWINGS.
6. DIMENSIONS SHOWN ON THE FLOOR PLANS FOR NEW CONSTRUCTION ARE TO THE FACE OF STUD OF INTERIOR WALLS, TO CENTER LINE OF COLUMNS AND TO FACE OF CONCRETE OR MASONRY WALL UNLESS OTHERWISE INDICATED.
7. FINISH FLOOR ELEVATIONS ARE TO TOP OF STRUCTURE UNLESS OTHERWISE NOTED.
8. WHERE MOUNTING HEIGHTS ARE NOT INDICATED, INSTALL INDIVIDUAL COMPONENTS AT STANDARD MOUNTING HEIGHTS RECOGNIZED WITHIN THE INDUSTRY FOR THE PARTICULAR APPLICATION INDICATED AND TO CURRENT ADA/ACCESSIBILITY STANDARDS. REFER QUESTIONABLE MOUNTING HEIGHT DECISIONS TO THE ARCHITECT FOR FINAL DECISION.
9. FIELD MEASURE AND CONFIRM DIMENSIONS FOR O.P./C.I. EQUIPMENT, FURNISHINGS & ARCHITECTURAL WOODWORK.
10. LOCATE ACCESS PANELS AS INDICATED ON DRAWINGS. FOR ACCESS PANELS NOT SHOWN BUT REQUIRED BY PROVISIONS OF THE CONTRACT DOCUMENTS, LOCATED IN ACCORDANCE WITH APPLICABLE CODES. SUBMIT PROPOSED LOCATIONS TO THE ARCHITECT FOR REVIEW AND ACCEPTANCE PRIOR TO INSTALLATION.
11. EXIT SIGNS AND SMOKE DETECTORS LOCATED IN HARD CEILINGS SHALL BE POSITIONED AS REQUIRED BY THE AUTHORITY HAVING JURISDICTION AND SHALL BE CENTERED IN CORRIDORS AND LOCATED A DISTANCE OF 1'-0" FROM THE WALL TO THE CENTER OF THE FIXTURE UNLESS OTHERWISE NOTED.
12. EQUIPMENT AND FURNITURE SHOWN ARE NOT INCLUDED IN CONTRACT, UNLESS OTHERWISE NOTED.

CONSTRUCTION

1. OPENINGS IN A RATED WALL, FLOOR, CEILING AND ROOF ASSEMBLIES SHALL BE SEALED WITH A FIRE RESISTANT JOINT SYSTEMS OR PROTECTED WITH A FIRE RATED CHASE.
2. MAINTAIN THE FIRE RATING OF CONSTRUCTION AROUND CABINETS, PANELS, AND BOXES RECESSED IN RATED WALL, FLOOR, AND CEILING ASSEMBLIES.
3. LEVEL FLOOR THAT EXCEED 1/4" VARIANCE IN A 10'-0" RADIUS.
4. ISOLATE DISSIMILAR METALS TO PREVENT GALVANIC CORROSION.
5. ALL EXTERIOR STEEL HANDRAILS, GUARDRAILS, AND BOLLARDS SHALL BE GALV. AND POWDER COATED, UNLESS OTHERWISE NOTED.
6. COORDINATE LOCATION OF SEALANT AND COMPATIBILITY OF SEALANTS WITH ADJACENT WORK, INCLUDING MATERIALS AND OTHER CONTIGUOUS SEALANTS. CAULK AT JUNCTURE OF INTERIOR FACES OF DOOR FRAMES, EXTERIOR WINDOW FRAMES, AND CABINET WORK WITH ADJACENT MATERIALS.
7. CAULK WALL OUTLETS IN DEMISING WALLS WITH A FIRE RATED, ACOUSTIC SEALANT.

EXISTING AND COMPLETED WORK

1. CLEAN AND PROTECT CONSTRUCTION IN PROGRESS AND ADJOINING MATERIALS IN PLACE. APPLY PROTECTIVE COVERING WHERE REQUIRED TO ENSURE PROTECTION FROM DAMAGE OR DETERIORATION.

SYMBOLS LEGEND

- A10 — WALL TYPE NUMBER
- 301A — DOOR NUMBER
- A2 — KEYNOTE NUMBER
- XX — OPENING NUMBER
- 1 — REVISION NUMBER
- XXX — MATERIAL MARK
- ROOM NAME / A101A — ROOM NAME & NUMBER
- LEVEL XX 10'-0" — LEVEL INDICATOR
- SPOT ELEVATION
- SPOT COORDINATE
- XX — EXISTING GRID MARK
- XX — NEW GRID MARK
- X## / XXX A-XXX / X## / X## — INTERIOR ELEVATION NUMBER & SHEET NUMBER
- X / A-XXX — EXTERIOR ELEVATION NUMBER & SHEET NUMBER
- X / A-XXX — SECTION VIEW NUMBER & SHEET NUMBER
- X / A-XXX — ENLARGED VIEW NUMBER & SHEET NUMBER

MATERIALS & ABBREVIATIONS

- COMPACTED SOIL
- UNDISTURBED SOIL
- COURSE POROUS FILL
- SAND / MORTAR
- CONCRETE
- CUT STONE
- BRICK MASONRY
- CONCRETE MASONRY UNIT
- STEEL
- ALUMINUM
- CONTINUOUS WOOD FRAMING
- WOOD BLOCKING
- FINISH WOODWORK
- PLYWOOD
- GYPSUM
- RIGID INSULATION
- BATT INSULATION
- SEALANT AND BACKER ROD
- INSULATED GLAZING UNIT

ABBREVIATIONS WHEN USED IN COMPOSITION MAY INCLUDE PERIODS FOR CLARIFICATION

A/C	AIR CONDITION(ING)(ED)	GA	GAUGE	(P-)	PAINT
(ACP-)	ACOUSTICAL CEILING PANEL	GALV	GALVANIZED	PERP	PERPENDICULAR
(ACT-)	ACOUSTICAL CEILING TILE	GB	GRAB BAR	PL	PLATE
ADA	AMERICANS W/ DISABILITIES ACT	GEN	GENERAL	PLAM	PLASTIC LAMINATE
ADJ	ADJUSTABLE	GL	GLASS	PLY	PLYWOOD
AFF	ABOVE FINISHED FLOOR	GR	GRADE	PNL	PANEL
ALUM	ALUMINUM			PREFAB	PREFABRICATED
ANOD	ANODIZE(D)	H	HIGH	PRKG	PARKING
ARCH	ARCHITECT(URAL)	HDF	HIGH DENSITY FIBERBOARD	PROJ	PROJECT
		HDWR	HARDWARE	PS	PROJECTION SCREEN
BD	BOARD	HDWD	HARDWOOD	PROP	PROPERTY
BLDG	BUILDING	HM	HOLLOW METAL	PTN	PARTITION
BLK	BLOCK(ING)	HO	HOLD OPEN		
BOT/	BOTTOM OF	HORIZ	HORIZONTAL	QTY	QUANTITY
BUR	BUILT-UP ROOFING	HP	HIGH POINT		
		HR	HOUR	R	RADIUS
CB	CATCH BASIN	HPC	HIGH PERFORMANCE COATING	RCP	REFLECTED CEILING PLAN
CIP	CAST-IN-PLACE	HT	HEIGHT	REC	RECESSED
CIRC	CIRCULATION	HVAC	HEATING, VENTILATION AIR CONDITIONING	REF	REFERENCE
CJ	CONTROL JOINT			REFR	REFRIGERATOR
CL	CENTERLINE			REINF	REINFORCING
CLG	CEILING	ID	INSIDE DIAMETER	REQD	REQUIRED
CLR	CLEAR / CLEARANCE	IN	INCH(ES)	REV	REVISION
CMU	CONCRETE MASONRY UNIT	INSUL	INSULATION	RFG	ROOFING
C.O.	CASED OPENING	INT	INTERIOR	RH	RIGHT HAND
COL	COLUMN			RO	ROUGH OPENING
CONC	CONCRETE	JAN	JANITOR	RM	ROOM
CONF	CONFERENCE			ROW	RIGHT OF WAY
CONT	CONTINUOUS	L	LONG, LENGTH		
CTF	CUT TO FIT	LAM	LAMINATE(D)	S	SOUTH
CU	CUBIC	LAV	LAVATORY	SA	SOUND ATTENUATION
		LF	LINEAR FOOR (FEET)	SCHED	SCHEDULE
D	DEPTH	LH	LEFT HAND	SF	SQUARE FOOT (FEET)
DBL	DOUBLE	LKR	LOCKER	SGL	SINGLE
DEG	DEGREE	LP	LOW POINT	SHT	SHEET
DEMO	DEMOLISH, DEMOLITION	LT	LIGHT(S)	SIM	SIMILAR
DEPT	DEPARTMENT	MAX	MAXIMUM	SPEC	SPECIFICATION
DIA	DIAMETER	MDF	MEDIUM DENSITY FIBERBOARD	SQ	SQUARE
DIM	DIMENSION	MECH	MECHANICAL	SST	STAINLESS STEEL
DISP	DISPENSER	MEP	MECHANICAL, ELECTRICAL, PLUMBING	STC	SOUND TRANSMISSION CLASS
DIV	DIVISION			STD	STANDARD
DN	DOWN	MFR	MANUFACTURER	STL	STEEL
DR	DOOR	MIN	MINIMUM	STRUCT	STRUCTURE, STRUCTURAL
DS	DOWNSPOUT	MISC	MISCELLANEOUS		
DW	DISHWASHER	MO	MASONRY OPENING	SUSP	SUSPENDED
DWG	DRAWING	MTD	MOUNTED		
		MTG	MEETING	TR	TREAD
E	EAST	MTL	METAL	T/	TOP OF
EA	EACH	MULL	MULLION	TB	TOP AND BOTTOM
EJ	EXPANSION JOINT			TEL	TELEPHONE
EL	ELEVATION	N	NORTH	TEMP	TEMPORARY
ELEC	ELECTRICAL	N/A	NOT APPLICABLE	THK	THICK, THICKNESS
ELEV	ELEVATOR	NIC	NOT IN CONTRACT	TLT	TOILET
EOS	EDGE OF SLAB	NO	NUMBER	TV	TELEVISION
EQ	EQUAL, EQUIVALENT	NOM	NOMINAL	TYP	TYPICAL
EQUIP	EQUIPMENT	NTS	NOT TO SCALE		
ETC	ETCETERA			UL	UNDERWRITER'S LABORATORIES
ETR	EXISTING TO REMAIN	OC	ON CENTER	UNO	UNLESS NOTED OTHERWISE
EXIST	EXISTING	OD	OUTSIDE DIAMETER	UTIL	UTILITY
EXT	EXTERIOR, EXTERNAL	OF/CI	OWNER FURNISHED, CONTRACTOR INSTALLED		
		OFD	OVERFLOW DRAIN	VIF	VERIFY IN FIELD
F/	FACE OF	OFF	OFFICE	VOL	VOLUME
FA	FIRE ALARM	OH	OVERHEAD		
FC	FIRE CABINET	OP/CI	OWNER PURCHASED, CONTRACTOR INSTALLED	W	WEST
FD	FLOOR DRAIN			W/	WITH
FE	FIRE EXTINGUISHER	OP/OI	OWNER PURCHASED, OWNER INSTALLED	W/O	WITHOUT
FEC	FIRE EXTINGUISHER CABINET			WC	WATER CLOSET
FF	FINISHED FLOOR	OPH	OPPOSITE HAND	WD	WOOD
FH	FIRE HYDRANT	OPNG	OPENING	WRB	WATER RESISTIVE AIR BARRIER
FHC	FIRE HOSE CABINET	OPP	OPPOSITE		
FLR	FLOOR, FLOORING			WT	WEIGHT
FO	FINISHED OPENING	PA	PUBLIC ADDRESS		
FRTW	FIRE-RETARDANT (WOOD)	PB	PARTICLE BOARD	YD	YARD
FT	FEET (FOOT)	PC	PRE-CAST		
FURN	FURNISH, FURNITURE				
FURR	FURRING				

INTERIOR ABBREVIATIONS

APC	ACOUSTIC PANEL CEILINGS	GWT	GLAZED WALL TILE	SF	STONE FLOORING
ATC	ACOUSTIC TILE CEILINGS	GYP	GYPSUM	SFB	STONE FLOORING BASE
AWP	SOUND-ABSORBING WALL UNITS			SFC	STRETCHED-FABRIC CEILING
		LMC	LINEAR METAL CEILINGS	SFW	STRETCHED-FABRIC WALL
BPG	BACK PAINTED GLASS	LP	LAMINATE CLAD PANELING	SSM	SOLID SURFACE MATERIAL
		LT	LINOLEUM TILE	STH	STONE THRESHOLD
CG	CORNER GUARDS	LVT	LUXURY VINYL TILE	SV	SHEET VINYL FLOORING
CPT	CARPET TILE			SVT	SOLID VINYL FLOOR TILE
CT	CERAMIC TILE	MG	MIRRORED GLASS		
CTZ	PORTLAND CEMENT TERRAZZO	MPC	METAL PANEL CEILINGS	VB	VINYL BASE
CVT	CONDUCTIVE VINYL TILE			VCT	VINYL COMPOSITION TILE
		(P-)	PAINT COLOR	VDB	VISUAL DISPLAY BOARDS
DSB	DIMENSION STONE BASE	PLAM	PLASTIC LAMINATE	VWC	VINYL WALL COVERINGS
DST	DIMENSION STONE TILE	PWF	PARQUET WOOD FLOORING		
		(PT-)	PORCELAIN TILE	WAF	WOOD ATHLETIC FLOORING
FC	FILE CABINET			WB	WOOD BASE
FSF	FLUID-APPLIED SPORTS FLOORING	RAF	RESILIENT ATHLETIC FLOORING	WD	WOOD
		(RB-)	RUBBER BASE	WG	WALL GUARDS
FWC	FABRIC-WRAPPED CEILING PANEL	(RS-)	ROLLER SHADES	WP	WOOD PANELING
FWP	FABRIC WRAPPED PANELS			WV	WOOD VENEER LAMINATE

CODE INFORMATION

Applicable Codes:

- 2018 International Residential Code (IRC)
- 2018 International Building Code (IBC)
- 2018 International Plumbing Code (IPC)
- 2018 International Mechanical Code (IMC)
- 2018 International Fuel Gas Code (IFGC)
- 2018 International Property Maintenance Code (IPMC)
- 2018 International Fire Code (IFC)
- 2018 International Energy Conservation Code (IECC)
- 2017 National Electrical Code (NEC)
- 2018 International Swimming Pool and Spa Code (ISPSC)
- 2018 Existing Building Code (IEBC)
- 2009 ICC A117.1 Accessible and Usable Buildings & Facilities (ICC/ANSI)
- Uniform Federal Accessibility Standards (UFAS)

Local Regulations:

ZONE:		PUD
PARCEL:		note
BUILDING SETBACKS:	FRONT:	North : 30' - 0"
	SIDE1:	East : 20' - 0"
	SIDE2:	West : 20' - 0"
	REAR:	South : 30' - 0"
LOT COVERAGE:		N/A
MAXIMUM HEIGHT ALLOWABLE:		45' - 0"
ALLOWABLE NUMBER OF STORIES:		3
EASEMENTS:		See Civil
ADJACENT PROPERTY USE:		RD / CM
PARKING:		
Parking Spaces Required:		1.8 / UNIT
Handicap Spaces Required:		SEE CIVIL
Parking Space Size Requirement:		9'-0" W x 18'-0" D
LANDSCAPING / SCREENING:		SEE LANDSCAPE DWGS
SITE DRAINAGE / RUN-OFF & RETENTION REQUIREMENTS:		SEE CIVIL DWGS

Building Description:

New Construction

Construction Classification:

V-B, SPRINKLERED

Occupancy Classification: (IBC Ch. 3, LSC Ch. 4)

Occupancy Type (IBC 302.1):	R-2
Hazard Type (LSC 6-2):	ORDINARY
Fire District:	-----

MASONRY % CALCULATIONS

BUILDING A

BRICK VENEER SIDING	3,943 SF
HARDIE SIDING	1,925 SF
	5,868 SF TOTAL/BLDG.

BUILDING B

BRICK VENEER SIDING	6,694 SF
HARDIE SIDING	3,823 SF
	10,517 SF TOTAL/BLDG.

BUILDING C

BRICK VENEER SIDING	5,033 SF
HARDIE SIDING	2,944 SF
	7,977 SF TOTAL/BLDG.

DUMPSTER ENCLOSURE

BRICK VENEER SIDING	604 SF
HARDIE SIDING	0 SF
	700 SF TOTAL

SITE TOTALS

BRICK VENEER SIDING	31,944 SF	65%
HARDIE SIDING	17,384 SF	35%
	49,328 SF	100% TOTAL

MHM

McCarty Holsaple McCarty, Inc.
550 W. Main St., Suite 300
Knoxville, TN 37902
t 865.544.2000
www.mhminc.com

Consultants:

CIVIL ENGINEER:
HUDDLESTON-STEELE ENGINEERING INC.
2112 N.W. BROAD ST.
MURFREESBORO, TN 37129
615.893.4084

LANDSCAPE ARCHITECT:
RAGAN SMITH
100 E. VINE ST., STE 200
MURFREESBORO, TN 37130
615.546.6050

STRUCTURAL ENGINEER:
HAINES STRUCTURAL GROUP
800 S. GAY ST., STE 1750
KNOXVILLE TN, 37929
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FACILITY SYSTEMS CONSULTANTS
713 S. CENTRAL ST., STE 101
KNOXVILLE TN, 37902
865.246.0164

ELECTRICAL ENGINEER:
FACILITY SYSTEMS CONSULTANTS
713 S. CENTRAL ST., STE 101
KNOXVILLE TN, 37902
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Project Information:

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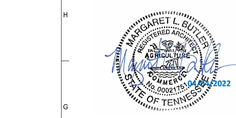
Seal:



Consultant:

#	ISSUE	DATE

Issue Date:	04/04/2022
PIC	M. BUTLER
PM	M. BUTLER
PA	G. TAYLOR
Drawn By:	Author
Checked By:	J. BRADLEY

Sheet Description:

G-001

PROJECT INFORMATION

11/15/2023 2:45:50 PM

SHEET NUM.	SHEET NAME	REVISION NO.	REVISION DATE	DESRIPTION
GENERAL				
G-000	COVERSHEET			
G-001	PROJECT INFORMATION			
G-002	SHEET INDEX	1	08.23.2022	REVISION 01 - CITY COMMENTS RESPONSE
G-003	PROJECT CODE INFORMATION	1	08.23.2022	REVISION 01 - CITY COMMENTS RESPONSE
G-101	CODE COMPLIANCE PLANS			
G-102	CODE COMPLIANCE PLANS			
G-103	CODE COMPLIANCE PLANS			
CIVIL				
C-0.0	TITLE SHEET	8	10.20.2023	QA/QC COMMENTS
C-0.1	EXISTING CONDITIONS	9	10.20.2023	QA/QC COMMENTS
C-0.2	DEMOLITION PLAN	10	10.20.2023	QA/QC COMMENTS
C-1.0	SITE PLAN	9	10.20.2023	QA/QC COMMENTS
C-2.0	UTILITIES PLAN	10	10.20.2023	QA/QC COMMENTS
C-2.1	SANITARY SEWER PROFILES	10	10.20.2023	QA/QC COMMENTS
C-2.2	ELECTRICAL SITE PLAN	9	10.20.2023	QA/QC COMMENTS
C-3.0	GRADING & DRAINAGE PLAN	9	10.20.2023	QA/QC COMMENTS
C-3.1	DOWNSPOUT PLAN	9	10.20.2023	QA/QC COMMENTS
C-4.0	CONSTRUCTION FACILITIES PLAN	8	10.20.2023	QA/QC COMMENTS
C-5.0	DETAILS	9	10.20.2023	QA/QC COMMENTS
C-5.1	DETAILS	9	10.20.2023	QA/QC COMMENTS
C-5.2	DETAILS	9	10.20.2023	QA/QC COMMENTS
C-5.3	DETAILS	9	10.20.2023	QA/QC COMMENTS
P-1.0	LIGHTING PLAN	8	10.20.2023	QA/QC COMMENTS
T-1.0	TRUCK TURNING TEMPLATE	8	10.20.2023	QA/QC COMMENTS
EPSC-1.0	EROSION PREVENTION & SEDIMENT CONTROL PLAN INITIAL MEASURES	8	10.20.2023	QA/QC COMMENTS
EPSC-1.1	EROSION PREVENTION & SEDIMENT CONTROL PLAN INTERMEDIATE MEASURES	8	10.20.2023	QA/QC COMMENTS
EPSC-1.2	EROSION PREVENTION & SEDIMENT CONTROL PLAN FINAL MEASURES	8	10.20.2023	QA/QC COMMENTS
EPSC-2.0	EROSION PREVENTION & SEDIMENT CONTROL DETAILS	8	10.20.2023	QA/QC COMMENTS
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IR1.0	IRRIGATION PLAN			
IR1.1	IRRIGATION PLAN			
IR1.2	IRRIGATION PLAN			
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A-022	ARCHITECTURAL SITE DETAILS	1	08.23.2022	REVISION 01 - CITY COMMENTS RESPONSE
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A-114	BUILDING A - ROOF PLAN			
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A-116	BUILDING A - LEVEL 02 REFLECTED CEILING PLAN			
A-121	BUILDING B FLOOR PLAN - LEVEL 01	1	08.23.2022	REVISION 01 - CITY COMMENTS RESPONSE
A-122	BUILDING B FLOOR PLAN - LEVEL 02			
A-123	BUILDING B FLOOR PLAN - LEVEL 03			
A-124	BUILDING B - ROOF PLAN			
A-125	BUILDING B - LEVEL 01 REFLECTED CEILING PLAN			
A-126	BUILDING B - LEVEL 02 REFLECTED CEILING PLAN			
A-127	BUILDING B - LEVEL 03 REFLECTED CEILING PLAN	1	08.23.2022	REVISION 01 - CITY COMMENTS RESPONSE
A-131	BUILDING C FLOOR PLAN - LEVEL 01	1	08.23.2022	REVISION 01 - CITY COMMENTS RESPONSE
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A-133	BUILDING C FLOOR PLAN - LEVEL 03			
A-134	BUILDING C - ROOF PLAN			
A-135	BUILDING C - LEVEL 01 REFLECTED CEILING PLAN	1	08.23.2022	REVISION 01 - CITY COMMENTS RESPONSE
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A-222	BUILDING B - ELEVATIONS CONT.	1	08.23.2022	REVISION 01 - CITY COMMENTS RESPONSE
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A-232	BUILDING C - ELEVATIONS CONT.			
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A-321	BUILDING B - EXTERIOR WALL SECTIONS			
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A-433	ENLARGED PLANS & ELEVATIONS - BUILDING C BATHROOMS CONT.			
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SHEET NUM.	SHEET NAME	REVISION NO.	REVISION DATE	DESRIPTION
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S-002	STRUCTURAL GENERAL NOTES	1	08.23.2022	REVISION 01 - CITY COMMENTS RESPONSE
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S-007	TYPICAL STEEL DETAILS	1	08.23.2022	REVISION 01 - CITY COMMENTS RESPONSE
S-100	OVERALL STIE PLAN	1	08.23.2022	REVISION 01 - CITY COMMENTS RESPONSE
S-110	BUILDING A - FOUNDATION PLAN	1	08.23.2022	REVISION 01 - CITY COMMENTS RESPONSE
S-111	BUILDING A - LEVEL 2 FRAMING PLAN	1	08.23.2022	REVISION 01 - CITY COMMENTS RESPONSE
S-112	BUILDING A - ROOF FRAMING PLAN	1	08.23.2022	REVISION 01 - CITY COMMENTS RESPONSE
S-120	BUILDING B - FOUNDATION PLAN	1	08.23.2022	REVISION 01 - CITY COMMENTS RESPONSE
S-121	BUILDING B - LEVEL 2 FRAMING PLAN	1	08.23.2022	REVISION 01 - CITY COMMENTS RESPONSE
S-122	BUILDING B - LEVEL 3 FRAMING PLAN	1	08.23.2022	REVISION 01 - CITY COMMENTS RESPONSE
S-123	BUILDING B - ROOF FRAMING PLAN	1	08.23.2022	REVISION 01 - CITY COMMENTS RESPONSE
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S-131	BUILDING C - LEVEL 2 FRAMING PLAN	1	08.23.2022	REVISION 01 - CITY COMMENTS RESPONSE
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S-201	SECTIONS & DETAILS	1	08.23.2022	REVISION 01 - CITY COMMENTS RESPONSE
S-202	SECTIONS & DETAILS	1	08.23.2022	REVISION 01 - CITY COMMENTS RESPONSE
S-203	SECTIONS & DETAILS	1	08.23.2022	REVISION 01 - CITY COMMENTS RESPONSE
S-204	SECTIONS & DETAILS	1	08.23.2022	REVISION 01 - CITY COMMENTS RESPONSE
S-205	SECTIONS & DETAILS	1	08.23.2022	REVISION 01 - CITY COMMENTS RESPONSE
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FP-110	BUILDING A - FIRST FLOOR FIRE PROTECTION			
FP-111	BUILDING A - SECOND FLOOR FIRE PROTECTION			
FP-120	BUILDING B - FIRST FLOOR FIRE PROTECTION			
FP-121	BUILDING B - SECOND FLOOR FIRE PROTECTION			
FP-122	BUILDING B - THIRD FLOOR FIRE PROTECTION			
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FP-131	BUILDING C - SECOND FLOOR FIRE PROTECTION			
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E-111	BUILDING A - 3 BEDROOM UNIT A1 - ELECTRICAL PLAN			
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E-123	BUILDING B - 2 BEDROOM UNIT B4 (UFAS) - ELECTRICAL PLAN			
E-124	BUILDING B - 2 BEDROOM UNIT B5 - ELECTRICAL PLAN			
E-125	BUILDING B - 2 BEDROOM UNIT B8 - ELECTRICAL PLAN			
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E-127	BUILDING B - ENLARGED COMMON SPACE ELECTRICAL PLAN			
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E-132	BUILDING C - 1 BEDROOM UNIT C2 - ELECTRICAL PLAN			
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E-134	BUILDING C - 3 BEDROOM UNIT C6 - ELECTRICAL PLAN			
E-135	BUILDING C - ENLARGED COMMON SPACE ELECTRICAL PLAN			
SITE ELECTRICAL				
EP100	SITE PHOTOMETRIC PLAN			
ES100	SITE ELECTRICAL PLAN			

Grand total: 171

MHM

McCarty Holsaple McCarty, Inc.
550 W. Main St., Suite 300
Knoxville, TN 37902
t 865.544.2000
www.mhminc.com

Consultants:

CIVIL ENGINEER:
HUDDLESTON-STEELE ENGINEERING INC.
2112 N.W. BROAD ST.
MURFREESBORO, TN 37129
615.893.4084

LANDSCAPE ARCHITECT:
RAGAN SMITH
100 E. VINE ST., STE 200
MURFREESBORO, TN 37130
615.546.6050

STRUCTURAL ENGINEER:
HAINES STRUCTURAL GROUP
800 S. GAY ST., STE 1750
KNOXVILLE TN, 37929
865.329.9920

MECHANICAL & PLUMBING ENGINEER:
FACILITY SYSTEMS CONSULTANTS
713 S. CENTRAL ST., STE 101
KNOXVILLE TN, 37902
865.246.0164

ELECTRICAL ENGINEER:
FACILITY SYSTEMS CONSULTANTS
713 S. CENTRAL ST., STE 101
KNOXVILLE TN, 37902
865.246.0164

Project Information:

21026

MHA Parkside Housing

520 EAST CASTLE STREET,
MURFREESBORO, TN 37130

08/23/22

Consultant:

#	ISSUE	DATE
1	REVISION 01 - CITY COMMENTS RESPONSE	08.23.2022

Issue Date:	04/04/2022
PIC	M. BUTLER
PM	M. BUTLER
PA	G. TAYLOR
Drawn By:	Author
Checked By:	J. BRADLEY

Sheet Description:

G-002

SHEET INDEX

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PROJECT CODE AND REGULATORY REQUIREMENT INFORMATION

BUILDING REQUIREMENTS

TYPES OF CONSTRUCTION (CHAPTER 6)

CONSTRUCTION TYPE CLASIFICATION

CONSTRUCTION TYPE:	TYPE VB: (IBC §602.5) - SPRINKLERED

FIRE RESISTANCE RAITING REQUIREMENTS (IBC TABLE 601)

PRIMARY STRUCTURAL FRAME:	0	
BEARING WALLS:		
EXTERIOR (IBC TABLE 602 & IBC §704.10)	REQUIREMENTS LISTED BELOW	PER FIRE SEPARATION DISTANCE
INTERIOR	0	
NON-BEARING WALLS / PARTITIONS:		
EXTERIOR: (IBC TABLE 602 & IBC §704.10)	REQUIREMENTS LISTED BELOW	PER FIRE SEPARATION DISTANCE
INTERIOR	0	
FLOOR CONSTRUCTION & SECONDARY MEMBERS	0	
ROOF CONSTRUCTION & SECONDARY MEMBERS	0	

FIRE RESISTANCE RATING REQUIREMENTS (IBC TABLE 602):

NORTH ELEVATION:	0	30'-0" > X ≥ 10' - 0" FIRE SEPARATION DISTANCE (VB CONSTRUCTION)
SOUTH ELEVATION:	0	30'-0" > X ≥ 10' - 0" FIRE SEPARATION DISTANCE (VB CONSTRUCTION)
EAST ELEVATION:	0	30'-0" > X ≥ 10' - 0" FIRE SEPARATION DISTANCE (VB CONSTRUCTION)
WEST ELEVATION:	0	30'-0" > X ≥ 10' - 0" FIRE SEPARATION DISTANCE (VB CONSTRUCTION)

FIRE AND SMOKE PROTECTION FEATURES

IBC REQUIRED

FIRE RESISTANCE RATING REQUIREMENTS:	WALL & PARTITIONS	OPENINGS (IBC TABLES 716.5 & 716.6)
FIRE BARRIERS (IBC §707.3):	1 HR @ RISER ROOM	
FIRE PARTITIONS (IBC §708):	1 HR @ DEMISING WALLS	ALLOWED 1/2 HR REDUCTION DUE TO BUILDINGS BEING SPRINKLERED (IBC §420.3)
DOORS IN FIRE PARTITIONS (IBC § TABLE 716.1(2))	20 MIN	

INTERIOR FINISHES

THE REQUIREMENTS OF IBC CHAPTER 8 AND LSC CHAPTER 10 ARE REFERENCED IN THE PROJECT SPECIFICATIONS & DRAWINGS AS APPLICABLE TO THIS PROJECT.

1 STC OF 50 REQUIRED BETWEEN ALL DWELLING UNITS

PROTECTION SYSTEMS

THE REQUIREMENTS OF IBC AND LSC CHAPTER 9 ARE REFERENCED IN THE PROJECT SPECIFICATIONS & DRAWINGS AS APPLICABLE TO THIS PROJECT.

MEANS OF EGRESS — ***NOTE: ALL AREAS ARE APPROXIMATE & INTENDED FOR CODE USE ONLY**

SEE CODE COMPLIANCE PLAN SHEETS FOR ADDITIONAL INFORMATION ON MEANS OF EGRESS.

EGRESS SIZING

STAIRWAYS	0.2" PER OCCUPANT IN BUILDINGS EQUIPPED THROUGHOUT WITH AN AUTOMATIC SPRINKLER SYSTEM INSTALLED IN ACCORDANCE WITH SECTION 903.1.1 OR 903.3.1.2 AND AN EMERGENCY VOICE/ALARM COMMUNICATION SYSTEM IN ACCORDANCE WITH SECTION 907.5.2.2 (IBC 1005.3.1, EXCEPTION 01) - REFER TO LIFE SAFETY PLANS
OTHER COMPONENTS	0.15" PER OCCUPANT IN BUILDINGS EQUIPPED THROUGHOUT WITH AUTOMATIC SPRINKLER SYSTEM INSTALLED IN ACCORDANCE WITH SECTION 903.3.1.1 OR 903.1.2. AND AN EMERGENCY VOICE/ALARM COMMUNICATION SYSTEM IN ACCORDANCE WITH SECTION 907.5.2.2 (IBC 1005.3.2, EXCEPTION 01) - REFER TO LIFE SAFETY PLANS

MINIMUM NUMBER OF EXITS:

MINIMUM 2 EXITS OR EXIT ACCESS DOORWAYS PER OCCUPIED SPACE, WHERE THE DESIGN OCCUPANT LOAD PER STORY IS 1-500 (IBC TABLE 1006.3.1)

OR COMMON PATH OF EGRESS TRAVEL DISTANCE OF 125 FEET (GROUP R-2) / 75 FEET (GROUP A-3) EXCEEDS THE ALLOWABLE VALUES (IBC TABLE 1014.3)

SEPARATION OF EXIT & EXIT ACCESS DOORWAY... — DISTANCE APART OF EQUAL TO OR NOT LESS THAN 1/3 MAXIMUM DIAGONAL DIMENSION (IBC §1007.1.1, EXCEPTION 2)

GROUND FLOOR FIRE AREAS

FIRE AREA	OCC. LOAD	# OF EXITS	OCC./EXIT	EGRESS DOOR WIDTH (IN.)		EGRESS STAIR WIDTH (IN.)		EGRESS RAMP / CORRIDOR WIDTH...		A o.R
				REQUIRED	PROVIDED	REQUIRED	PROVIDED	REQUIRED	PROVIDED	

HORIZONTAL EXITS

SEE NFPA 101 SECTIONS 3.3.81.1, 7.2.4 AND 7.2.4.2.4; ALSO SEE IBC 2012 SECTION 1025 AND REFER TO LIFE SAFETY PLANS

SECOND FLOOR EGRESS

AREA 01 EAST + AREA 02	2 EXITS REQ'D	1ST EXIT BY ENCLOSED STAIR B (NORTHEAST)	2ND EXIT BY ENCLOSED STAIR A02 (CENTER)
AREA 03	2 EXITS REQ'D	1ST EXIT BY ENCLOSED STAIR C (SOUTH EAST)	2ND EXIT BY HORIZONTAL EXIT
AREA 01 EAST + AREA 02	2 EXITS REQ'D	1ST EXIT BY ENCLOSED STAIR F (NORTHWEST)	2ND EXIT BY ENCLOSED STAIR E02 (CENTER)
AREA 05	2 EXITS REQ'D	1ST EXIT BY ENCLOSED STAIR G (SOUTHWEST)	2ND EXIT BY HORIZONTAL EXIT

EXIT ACCESS TRAVEL DISTANCE:	DOES NOT EXCEED 250 FEET, SPRINKLERED FOR OCCUPANCY GROUP R-2, OR DOES NOT EXCEED 250 FEET, SPRINKLERED FOR OCCUPANCY A-3 (IBC TABLE 1017.2)
MAXIMUM DEAD END COORIDOR:	DOES NOT EXCEED 50 FEET, SPRINKLERED FOR OCCUPANCY GROUP R-2, OR DOES NOT EXCEED 20 FEET, SPRINKLERED FOR OCCUPANCY GROUP A3 (IBC §1020.4 AND EXCEPTION 2)

IBC CHAPTERS 12 - 16:

THE REQUIREMENTS OF CHAPTERS 12 - 16 ARE REFERENCED IN THE PROJECT SPECIFICATIONS & DRAWINGS AS APPLICABLE TO THIS PROJECT.

SPECIAL INSPECTIONS & TESTING REQUIREMENTS

*NOTE: THIS PROJECT IS SUBJECT TO ALL APPLICABLE SECTIONS OF THE IBC CHAPTER 17 REQUIREMENTS UNLESS SPECIFICALLY NOTED OTHERWISE, INCLUDING THE FOLLOWING

ABBREVIATED SECTIONS LISTED BELOW, AS WELL AS DOCUMENTATION OF ALL RECORDED APPROVALS, SITE OBSERVATIONS, & TESTING REPORTS NOT LISTED BELOW.

REQUIRED SPECIAL INSPECTIONS & TESTS:

SECTION 1705.1.1	N/A	SPECIAL CASES	ADDITIONAL INSPECTION & TESTING REQUIREMENTS AS DETERMINED BY THE BUILDING OFFICIAL

*NOTE: FOR CHAPTER 17, SECTIONS 1705.2 THROUGH 1705.12, REFER TO ADDITIONAL TESTING REQUIREMENTS AS APPLICABLE ON CONSULTANT DRAWINGS, TYP.

SECTION 1705.13	NO	SPRAYED FIRE-RESISTANT MATERIALS
SECTION 1705.14	NO	MASTIC & INTUMESCENT FIRE-RESISTANT COATINGS
SECTION 1705.15	NO	EXTERIOR INSULATION & FINISH SYSTEMS (E.I.F.S.)
SECTION 1705.16	NO	FIRE-RESISTANT PENETRATIONS & JOINTS
SECTION 1705.17	NO	TESTING FOR SMOKE CONTROL

IBC CHAPTERS 18 - 28:

THE REQUIREMENTS OF CHAPTERS 18 - 28 ARE REFERENCED IN THE PROJECT SPECIFICATIONS & DRAWINGS AS APPLICABLE TO THIS PROJECT.

ADDITIONAL REQUIREMENTS:

*NOTE: FOR ADDITIONAL CODE REQUIREMENTS REFER TO PROJECT SPECIFICATIONS & DRAWINGS PER DISCIPLINE.

PROJECT CODE AND REGULATORY REQUIREMENT INFORMATION

GENERAL PROJECT INFO

PROJECT NAME AND OWNER IDENTIFICATION

PROJECT NAME	MHA PARKSIDE HOUSING
PROJECT ADDRESS	520 E CASTLE STREET, MURFREESBORO, TN 37130
PROJECT LOCATION MAP	SEE SHEET G-002
DESIGN PROFESSIONAL FIRM NAME	MCCARTY HOLSAPLE MCCARTY, INC
DESIGN PROFESSIONAL PROJECT #:	21026
DESIGN PROFESSIONAL CONTACT	MARGARET L. BUTLER AIA, LEED AP
DESIGN PROFESSIONAL ADDRESS	550 W. MAIN ST. STE.300
DESIGN PROFESSIONAL PHONE	865-357-5441
DESIGN PROFESSIONAL EMAIL	MBUTLER@MHMINC.COM
DESIGN PROFESSIONAL LICENSE #:	00021751
OTHER PROJECT INFORMATION:	N/A

LOCAL ORDINANCES AND JURISDICTIONS

AUTHORITIES HAVING JURISDICTION	TENNESSEE STATE FIRE MARSHAL'S OFFICE (SFMO)
	CITY OF MURFEESBORO BUILDINGS AND CODE DEPARTMENT
ZONING ORDINANCE	MURFEESBORO PLANNING DEPARTMENT 2021 ZONING ORDINANCE
OTHER	N/A

APPLICABLE CODES (TITLES AND EDITTION) AND REGULATORY REQUIREMENTS

2018 TENNESSEE BUILDING CODE: ADOPTS 2018 BUILDING CODE

ACCESSIBILITY	2009 ACCESSIBLE AND USUABLE BUILDINGS AND FACILITIES (ICC A117.1-2009)
EXISTING BUILDING	2018 INTERNATIONAL EXISTING BUILDING CODE (IEBC 2018)
BUILDING	2018 INTERNATIONAL BUILDING CODE (IBC 2018)
ELECTRICAL	2017 NATIONAL ELECTRICAL CODE (NEC 2017)
ENERGY CONSERVATION	2018 INTERNATIONAL ENERGY CONSERVATION CODE (IECC 2018)
FIRE	2018 INTERNATIONAL FIRE CODE (IFC 2018)
FUEL/GAS	2018 INTERNATIONAL FUEL GAS CODE (IFGC 2018)
MECHANICAL	2018 INTERNATIONAL MECHANICAL CODE (IMC 2018)
PLUMBING	2018 INTERNATIONAL PLUMBING CODE (IPC 2018)
PRIVATE SEWAGE DISPOSAL	N/A
PROPERTY MAINTENANCE	N/A
RESIDENTIAL	2018 INTERNATIONAL RESIDENTIAL CODE (IRC 2015)
ZONING	MURFEESBORO PLANNING DEPARTMENT 2021 ZONING ORDINANCE
OTHER	N/A

CODE SUMMARY:

THE DEVELOPMENT OF A 6 BUILDING MULTIFAMILY HOUSING COMPLEX.

SITE / ZONING REQUIREMENTS

LOCAL ZONING ORDINANCE REQUIREMENTS

CITY OF MURFEESBORO	UPDATED: AUGUST 5, 2021
PROJECT REVIEW #:	1858-0518-0388

APPLICATION OF REGULATIONS	DESCRIPTION / COMPLIENCE METHOD
ZONE	PLANNED UNIT DEVELOPMENT (PUD)
BUILDING SETBACKS FROM R.O.W.	FRONT: 35'
	SIDE: 20'
	BACK: 25'
LOT COVERAGE	350.70 ACRES
MAXIMUM HEIGHT ALLOWED	35' ABOVE GRADE LEVEL
EASEMENTS:	EXISTING EASMENTS, DOES NOT IMPACT CURRENT PROPOSAL
FLOOD ZONE:	ZONE X, DOES NOT IMPACT CURRENT PROPOSAL
PARKING REQUIREMENTS:	TOTAL PARKING SPACES REQUIRED: CURRENT PARKING TOTALS: 26 PARKING SPACES, (11) BEING REMOVED.
	TOTAL PARKING SPACES PROVIDED: 30 PARKING SPACES, (2) HANDICAP ACCESSIBLE
	TOTAL HANDICAP SPACES REQUIRED: 2%
	TOTAL HANDICAP SPACES: PROVIDED: (2) HANDICAP SPACES

APPENDIX A - ZONING	THE USE "DWELLING , MULTIPLE-FAMILY" MAY BE PERMITTED WITHIN THE PLANNED UNIT DISTRICT IF APPROVED BY CITY COUNCIL
APPENDIX A - ZONING	IF THE EXISTING PROPERTY IS ZONED PUD, THE PROPOSED LAND DEVELOPMENT SHALL BE REQUIRED TO PROVIDE A BUFFER AS IF THE RESIDENTIAL PORTIONS OF THE PUD ZONED LAND ARE ZONED RS-15
SECTION 306	HISTORIC DISTRICT OVERLAY (HDO) - PROJECT TO BE REVIEWED BY PRESERVE AMERICA COMMISION (PAC)
SECTION 501	BUILDING SITE ASPECTS
BUILDINGS	LOCATED IN HERITAGE OVERLAY DISTRICT
SITE	ACCESSIBILE ROUTE IN FRONT AND REAR OF BUILDING
BICYCLES	BICYCLE RACKS WILL BE PROVIDED.
LIGHTING	SECTION 501.7 - TRESPASS ORDINANCE. IESNA STANDARDS SHALL BE USED TO DETERMINE APPROPRIATE DESIGN.
	LIGHTING OF WALKWAYS: NO MORE THAN .5 FC (INITIAL OUTPUT OF NO MORE THAN 1,000 LUMENS)
	LIGHTING OF BUILDING STRUCTURES: MAXIMUM ILLUMINATION ON VERTICAL SURFACE IS 5 FC AND SHALL BE AIMED AT BUILDING (WASH)
	LIGHTING OF PARKING LOTS: NO LESS THAN .4 FC & NO MORE THAN 1.5 FC (RATIO OF AVERAGE TO MINIMUM IS 4:1)
	LIGHTING INFORMATION REQUIRED FOR REVIEW:
RETAINING WALLS	WILL BE ENGINEERED BY A LICENSED STRUCTURAL ENGINEER. MATERIAL WILL BE REDI-ROCK GRAVITY WALL.

SECTION 708.1.2	LOCATION OF DUMSTER TO BE LOCATED IN REAR.
SECTION 708.1.4	CONSTRUCTION OF DUMSPTER SITES: FOOD SERVICE
	- DUMSTER SHALL HAVE TWO CENTRALLY LOCATED DRAINS, ONE BEING TIED TO IN-LINE GREASE TRAP. LINE WILL ONLY BE OPEN WHEN CLEANING
	- 6" CURB AROUND THE SIDES AND BACK OF THE PAD. PAD SHALL HAVE A 1/4" SLOPE TO DRAIN.
	- MASONRY THAT COMPLIES WITH ARCHITECTURE DESIGN STANDARDS.

BUILDING REQUIREMENTS

OCCUPANCY CLASSIFICATION (CHAPTER 3)

OCCUPANCY TYPE	**IBC**	**NFPA**
	R-2 - RESIDENTIAL (IBC §310.4)	RESIDENTIAL OCCUPANCY (LSC §6.1.8)

GENERAL BUILDING HEIGHTS AND AREAS (CHAPTER 5)

BUILDING HEIGHT AND AREAS		
	ALLOWABLE (TYPE VB)	**ACTUAL/ TOTALS (TYPE VB)**
BUILDING HEIGHT: (IBC TABLE 504.4)		
R-2 - RESIDENTIAL	LIMIT 60 FEET ABOVE GRADE PLANE	43 FEET ABOVE GRADE PLANE
BUILDING STORIES: (IBC TABLE 504.4)		
R-2 - RESIDENTIAL (SEE DIAGRAM)	LIMIT 3 STORIES ABOVE GRADE PLANE	3 STORIES ABOVE GRADE PLANE
BUILDING AREAS: (TABLE 506.2, 504.4)		
AREA PER STORY	R-2: 21,000 SF	20,094 SF (R-2 & A-3)
ALLOWABLE BUILDING AREA	R-2: 63,000 SF	
FRONTAGE INCREASES (IBC §506.3)	I = [F/P - .25]W/30	
AREA INCREASE PER STORY	R-2: 10,500 SF A-3: 9,000 SF	R-2: 5,097 SF A-3: 4,950 SF
AREA PER STORY (WITH INCREASE) 50%	R-2: 31,500 SF A-3: 27,000 SF	R-2: 15,291 SF A-3: 14,850 SF
TOTAL BUILDING AREA (WITH INCREASE)	R-2: 94,500 SF A-3: 54,000 SF	R-2: 45,873 SF A-3: 29,7000 SF
SECTION 506.1.2	BASEMENTS NEED NOT BE INCLUDED IN THE TOTAL ALLOWABLE FLOOR AREA OF A BUILDING PROVIDED THE TOTAL AREA OF SUCH BASEMENTS DOES NOT EXCEED THE AREA PERMITTED FOR A ONE-STORY ABOVE GRADE PLANE BUILDING.	

MHM

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KNOXVILLE TN, 37902
865.246.0164

ELECTRICAL ENGINEER:

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865.246.0164

Project Information:

21026

MHA Parkside Housing

520 EAST CASTLE STREET,
MURFREESBORO, TN 37130

MARGARET L. BUTLER
REGISTERED ARCHITECT
AGRICULTURE
No. 00021751
STATE OF TENNESSEE
08/23/22

Consultant:

#	ISSUE	DATE
1	REVISION 01 - CITY COMMENTS RESPONSE	08.23.2022

Issue Date:	04/04/2022
PIC	M. BUTLER
PM	M. BUTLER
PA	G. TAYLOR
Drawn By:	Author
Checked By:	J. BRADLEY

Sheet Description:

G-003

PROJECT CODE INFORMATION

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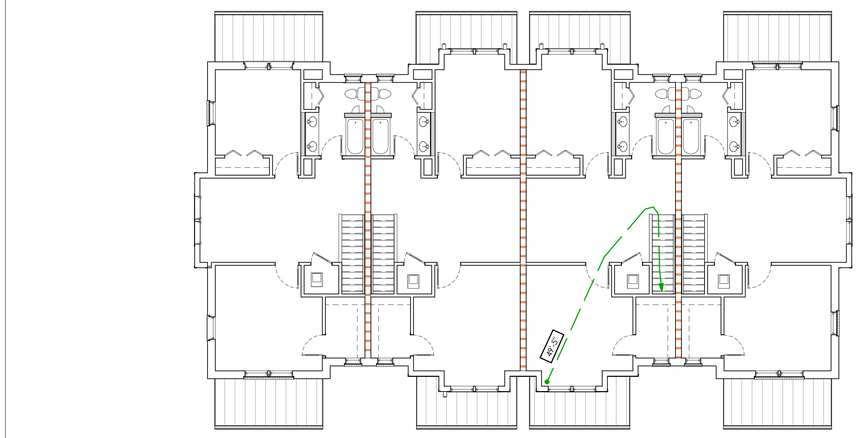
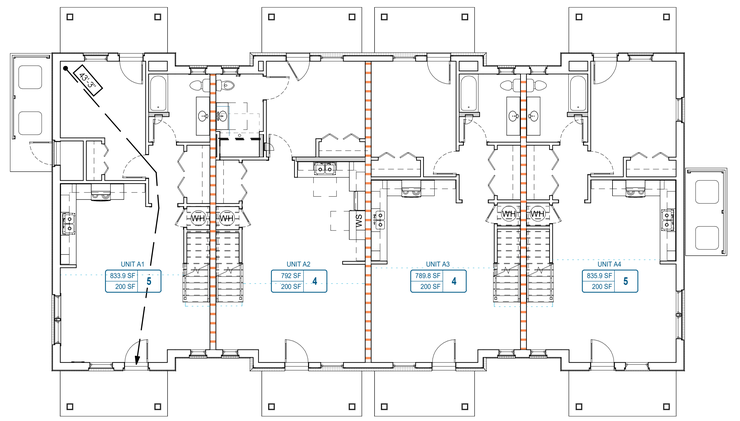


H16 BUILDING A - LEVEL 2 LIFE SAFETY PLAN
1/8" = 1'-0"



A14 BUILDING A - LEVEL 1 LIFE SAFETY PLAN
1/8" = 1'-0"

CODE COMPLIANCE NOTES

1. ALL WORK IS TO BE IN ACCORDANCE WITH ALL CODES HAVING AUTHORITY OVER THIS PROJECT
2. EXIT DOORS SHALL SWING IN THE DIRECTION OF EGRESS TRAVEL WHEN SERVING 50 OR MORE OCCUPANTS.
3. ALL DOORS USED IN CONJUNCTION WITH EXITS SHALL BE SO ARRANGED AS TO READILY OPEN FROM THE SIDE FROM WHICH EGRESS IS TO BE MADE WITHOUT THE USE OF A KEY OR SPECIAL KNOWLEDGE.
4. FINAL LOCATIONS OF ALL LIFE SAFETY DEVICES AND FIXTURES ARE SUBJECT TO APPROVAL BY THE BUREAU OF THE FIRE PREVENTION.
5. PROVIDE A PORTABLE FIRE EXTINGUISHER IN A SEMI-RECESSED OR RECESSED FIRE EXTINGUISHER CABINET MOUNTED AT 48" AFF TO THE TOP OF THE FIRE EXTINGUISHER, WITHIN 75 FEET TRAVEL DISTANCE THROUGHOUT SPACE. MAKE NECESSARY PROVISIONS WITH WALL CONSTRUCTION TO PROVIDE ADEQUATE DEPTH FOR THE SPECIFIED EXTINGUISHER CABINETS. REFER TO TYP. PARTITION DETAILS FOR FIRE EXTINGUISHER CABINET DETAIL.
6. EXISTING WALLS SHOWN WITH NEW LIFE SAFETY RATINGS ARE TO BE UPGRADED TO THE NEW RATING, INCLUDING PROTECTIVE OPENINGS.
7. REFER TO ELECTRICAL FOR LOCATION AND QUANTITY OF SMOKE DETECTORS, STROBES AND EXIT LIGHTS.

CODE PLAN SUMMARY

2018 INTERNATIONAL BUILDING CODE REVIEW

APPLICABLE CODES FOR THIS PROJECT:
2018 INTERNATIONAL RESIDENTIAL CODE (IRC)
2018 INTERNATIONAL BUILDING CODE (IBC)
2018 INTERNATIONAL PLUMBING CODE (IPC)
2018 INTERNATIONAL MECHANICAL CODE (IMC)
2018 INTERNATIONAL FUEL GAS CODE (IFGC)
2018 INTERNATIONAL PROPERTY MAINTENANCE CODE (IPMC)
2018 INTERNATIONAL FIRE CODE (IFC)
2018 INTERNATIONAL ENETRY CONSERVATION CODE(IECC)
2017 NATIONAL ELECTRICAL CODE (NEC)
2009 ICC A117.1 ACCESSIBLE AND USABLE BUIDLINGS & FACILITIES (ICC/ANSI)
UNIFORM FEDERAL ACCESSIBILITY STANDARDS (UFAS)

OCCUPANCY CLASSIFICATION (IBC 302):
R-2 RESIDENTIAL

CONSTRUCTION TYPE:
TYPE V-B, SPRINKLERED

HEIGHT AND AREA LIMITATIONS (IBC 504, 506, 507):
43'-0" ABOVE GRADE PLANE
3 STORIES ABOVE GRADE PLANE
MAX AREA: 20,094SF

FIRE RESISTANCE REQUIREMENTS (IBC 601):
STRUCTURAL FRAME: 0HR
INTERIOR WALLS: 0HR
FLOOR/CEILING: 0HR
ROOF/CEILING: 0HR
EXTERIOR BEARING WALLS: 0HR
EXTERIOR NON-BEARING WALLS: 0HR
PARTY & FIRE WALLS: 1HR

VERTICAL SHAFTS, STAIRS, ELEVATORS:
EXIST ACCESS CORRIDORS: N/A
STAIR: 0HR
ELEVATOR: N/A

EGRESS REQUIREMENTS:
MAXIMUM COMMON PATH: 125'-0" (SPRINKLERED)
MAXIMUM EXIT TRAVEL DISTANCE: 250'-0" (SPRINKLERED)
MINIMUM NUMBER OF EXITS THIS PROJECT: 2 (1-500 OCCUPANTS)
MAX LENGTH OF DEAD END CORRIDOR: 50' (SPRINKLERED)

EGRESS WIDTH PER PERSON:
STAIRS: 0.20" (SPRINKLERED)
DOORS: 0.15" (SPRINKLERED)

CODE PLAN LEGEND

RATED PARTITION TYPES
1HR FIRE BARRIER/OCCUPANCY SEPARATION

AREA OCCUPANCY TAG
Stair No. — STAIR WIDTH
99" | Occ — STAIR CAPACITY ALLOWED
0.2 | 999 — STAIR CAPACITY ACTUAL
OCCUPANCY WIDTH FACTOR

AREA OCCUPANCY TAG
AREA NAME — OCCUPANCY NAME
1500 SF | XXX — OCCUPANT LOAD
OCC SF — OCCUPANCY FACTOR
SQ. FOOTAGE

AREA EXIT CAPACITY TAG
999 — EXIT CAPACITY ALLOWED
999 — EXIT CAPACITY ACTUAL

A — BUILDING EXIT NUMBER

BUILDING EXIT CAPACITY
EXIT
12" — EXIT WIDTH
240 OCC — EXIT CAPACITY ALLOWED
220 OCC — EXIT CAPACITY ACTUAL

LONGEST ROUTE TO AN EXIT
START POINT OF TRAVEL PATH CALCULATION
399'-11" — TOTAL TRAVEL DISTANCE TO EXIT
END OF TRAVEL DISTANCE CALCULATION

66 — NUMBER OF OCCUPANTS AT A GIVEN POINT ALONG TRAVEL PATH

FEC — FIRE EXTINGUISHER & CABINET (SCREENED IF EXISTING)

FIRE EXIT SIGNAGE

OUT OF SCOPE OF WORK

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#	ISSUE	DATE

Issue Date:	04/04/2022
PIC	M. BUTLER
PM	M. BUTLER
PA	G. TAYLOR
Drawn By:	A. MONTGOMERY
Checked By:	J. BRADLEY

Sheet Description:

G-101

CODE COMPLIANCE PLANS

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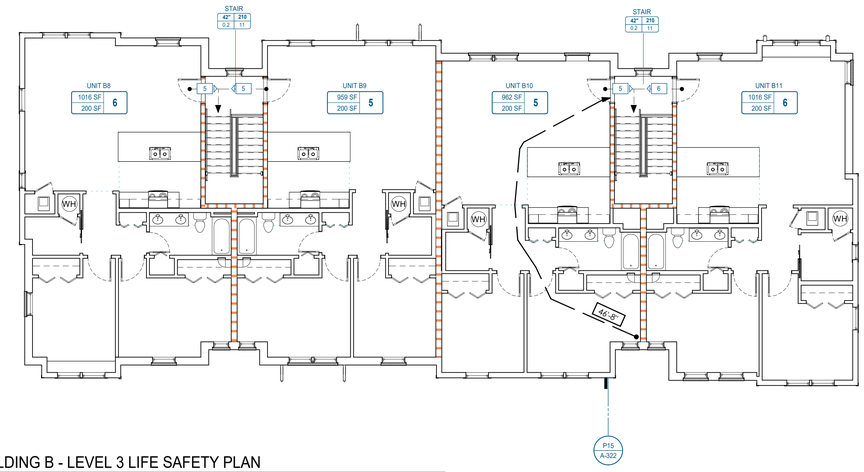
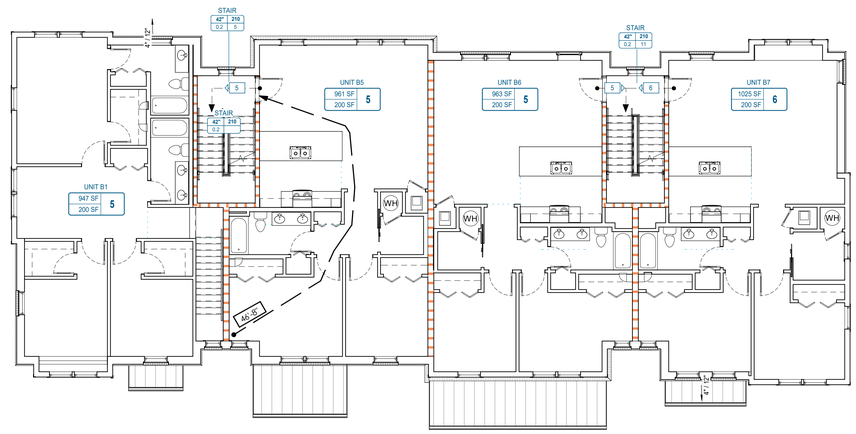
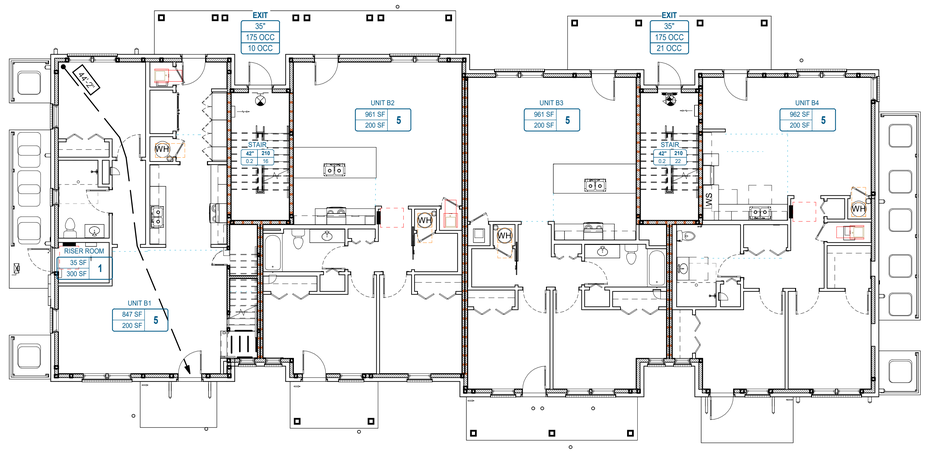


P15 BUILDING B - LEVEL 3 LIFE SAFETY PLAN
1/8" = 1'-0"



H15 BUILDING B - LEVEL 2 LIFE SAFETY PLAN
1/8" = 1'-0"



A15 BUILDING B - LEVEL 1 LIFE SAFETY PLAN
1/8" = 1'-0"

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CODE PLAN SUMMARY

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APPLICABLE CODES FOR THIS PROJECT:
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2018 INTERNATIONAL BUILDING CODE (IBC)
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OCCUPANCY CLASSIFICATION (IBC 302):
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CONSTRUCTION TYPE:
TYPE V-B, SPRINKLERED

HEIGHT AND AREA LIMITATIONS (IBC 504, 506, 507):
43'-0" ABOVE GRADE PLANE
3 STORIES ABOVE GRADE PLANE
MAX AREA: 20,094SF

FIRE RESISTANCE REQUIREMENTS (IBC 601):
STRUCTURAL FRAME: 0HR
INTERIOR WALLS: 0HR
FLOOR/CEILING: 0HR
ROOF/CEILING: 0HR
EXTERIOR BEARING WALLS: 0HR
EXTERIOR NON-BEARING WALLS: 0HR
PARTY & FIRE WALLS: 1HR

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EXIST ACCESS CORRIDORS: N/A
STAIR: 0HR
ELEVATOR: N/A

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MAXIMUM COMMON PATH: 125'-0" (SPRINKLERED)
MAXIMUM EXIT TRAVEL DISTANCE: 250'-0" (SPRINKLERED)
MINIMUM NUMBER OF EXITS THIS PROJECT: 2 (1-500 OCCUPANTS)
MAX LENGTH OF DEAD END CORRIDOR: 50' (SPRINKLERED)

EGRESS WIDTH PER PERSON:
STAIRS: 0.20" (SPRINKLERED)
DOORS: 0.15" (SPRINKLERED)

CODE PLAN LEGEND

RATED PARTITION TYPES
1HR FIRE BARRIER/OCCUPANCY SEPARATION

AREA OCCUPANCY TAG
Stair No. — STAIR WIDTH
99" | 0cc — STAIR CAPACITY ALLOWED
0.2 | 999 — STAIR CAPACITY ACTUAL
OCCUPANCY WIDTH FACTOR

AREA OCCUPANCY TAG
AREA NAME — OCCUPANCY NAME
1500 SF — OCCUPANT LOAD
OCC. SF | XXX — OCCUPANCY FACTOR
SQ. FOOTAGE

AREA EXIT CAPACITY TAG
999 — EXIT CAPACITY ALLOWED
999 — EXIT CAPACITY ACTUAL

A — BUILDING EXIT NUMBER

BUILDING EXIT CAPACITY
EXIT — EXIT WIDTH
12" — EXIT CAPACITY ALLOWED
240 OCC — EXIT CAPACITY ACTUAL
220 OCC

LONGEST ROUTE TO AN EXIT
START POINT OF TRAVEL PATH CALCULATION
999'-11" — TOTAL TRAVEL DISTANCE TO EXIT
END OF TRAVEL DISTANCE CALCULATION

66 — NUMBER OF OCCUPANTS AT A GIVEN POINT ALONG TRAVEL PATH

FEC — FIRE EXTINGUISHER & CABINET (SCREENED IF EXISTING)

FIRE EXIT SIGNAGE

OUT OF SCOPE OF WORK

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Issue Date:	04/04/2022
PIC	M. BUTLER
PM	M. BUTLER
PA	G. TAYLOR
Drawn By:	A. MONTGOMERY
Checked By:	J. BRADLEY

Sheet Description:

G-102

CODE COMPLIANCE PLANS

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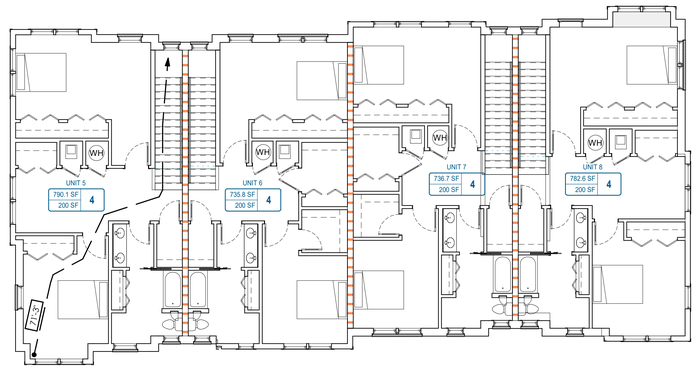
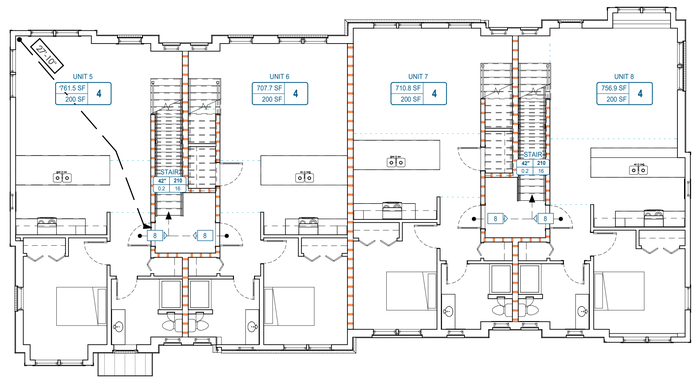
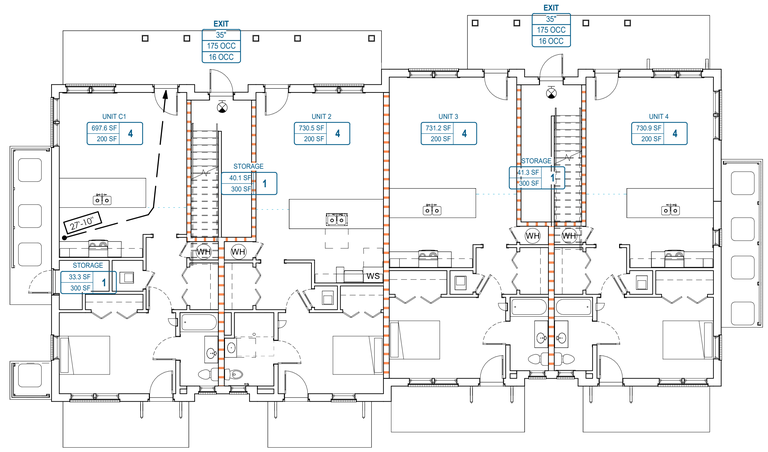


3 BUILDING C - LEVEL 3 LIFE SAFETY PLAN
1/8" = 1'-0"



2 BUILDING C - LEVEL 2 LIFE SAFETY PLAN
1/8" = 1'-0"



1 BUILDING C - LEVEL 1 LIFE SAFETY PLAN
1/8" = 1'-0"

CODE COMPLIANCE NOTES

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CODE PLAN SUMMARY

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OCCUPANCY CLASSIFICATION (IBC 302):
R-2 RESIDENTIAL

CONSTRUCTION TYPE:
TYPE V-B, SPRINKLERED

HEIGHT AND AREA LIMITATIONS (IBC 504, 506, 507):
43'-0" ABOVE GRADE PLANE
3 STORIES ABOVE GRADE PLANE
MAX AREA: 20,094SF

FIRE RESISTANCE REQUIREMENTS (IBC 601):
STRUCTURAL FRAME: 0HR
INTERIOR WALLS: 0HR
FLOOR/CEILING: 0HR
ROOF/CEILING: 0HR
EXTERIOR BEARING WALLS: 0HR
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PARTY & FIRE WALLS: 1HR

VERTICAL SHAFTS, STAIRS, ELEVATORS:
EXIST ACCESS CORRIDORS: N/A
STAIR: 0HR
ELEVATOR: N/A

EGRESS REQUIREMENTS:
MAXIMUM COMMON PATH: 125'-0" (SPRINKLERED)
MAXIMUM EXIT TRAVEL DISTANCE: 250'-0" (SPRINKLERED)
MINIMUM NUMBER OF EXITS THIS PROJECT: 2 (1-500 OCCUPANTS)
MAX LENGTH OF DEAD END CORRIDOR: 50' (SPRINKLERED)

EGRESS WIDTH PER PERSON:
STAIRS: 0.20" (SPRINKLERED)
DOORS: 0.15" (SPRINKLERED)

CODE PLAN LEGEND

RATED PARTITION TYPES
1HR FIRE BARRIER/OCCUPANCY SEPARATION

AREA OCCUPANCY TAG
Stair No. — STAIR WIDTH
99" Occ — STAIR CAPACITY ALLOWED
0.2 999 — STAIR CAPACITY ACTUAL
OCCUPANCY WIDTH FACTOR

AREA OCCUPANCY TAG
AREA NAME — OCCUPANCY NAME
1500 SF XXX — OCCUPANT LOAD
OCC. SF — OCCUPANCY FACTOR
SQ. FOOTAGE

AREA EXIT CAPACITY TAG
999 — EXIT CAPACITY ALLOWED
999 — EXIT CAPACITY ACTUAL

A — BUILDING EXIT NUMBER

BUILDING EXIT CAPACITY
EXIT
12" — EXIT WIDTH
240 OCC — EXIT CAPACITY ALLOWED
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START POINT OF TRAVEL PATH CALCULATION
999'-11" — TOTAL TRAVEL DISTANCE TO EXIT
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PIC	M. BUTLER
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PA	G. TAYLOR
Drawn By:	A. MONTGOMERY
Checked By:	J. BRADLEY

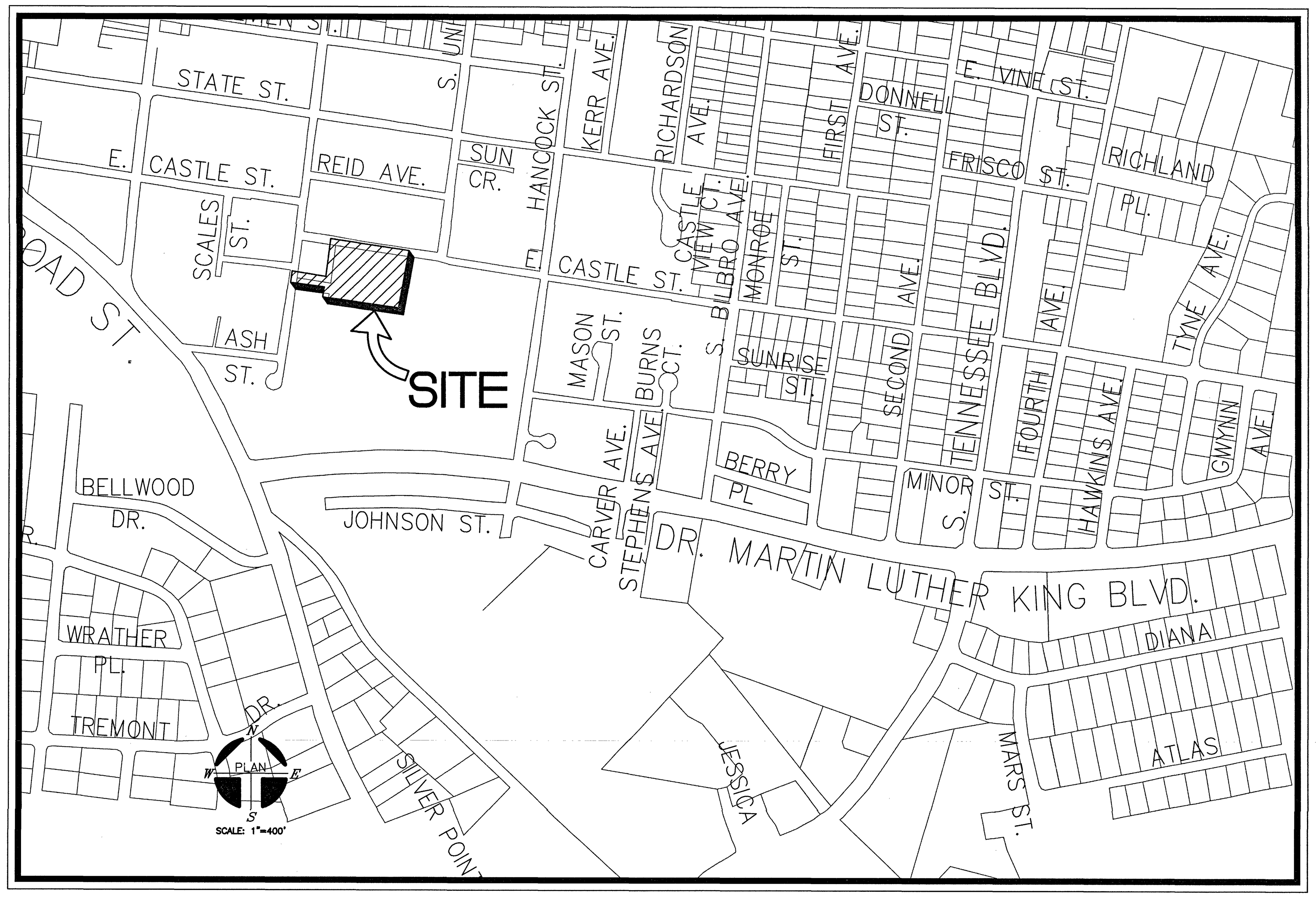
Sheet Description:

G-103

CODE COMPLIANCE PLANS

11/15/2023 2:46:02 PM

PARKSIDE



Murfreesboro, Tennessee
September 2022

SITE DATA

PROPOSED USE: NEW PUBLIC HOUSING DEVELOPMENT CONSISTING OF 46 UNITS.

ZONING: PUD 2021-414

TOTAL # UNITS: 46 UNITS

TOTAL UNITS PER ACRE: (46 UNITS)/(2.78 AC.) = 16.55 UNITS/AC.

DENSITY: 16.55 UNITS/AC.

GROSS FLOOR AREA: 53,880 S.F.±

TOTAL LAND AREA: 2.78 AC., 121,116 S.F.±

FLOOR AREA RATIO: 53,880/121,116 = 0.44

TOTAL PARKING SPACES REQUIRED (PER PATTERN BOOK):
1.8 SPACES PER UNIT: 46 UNITSx1.8 SPACES = 83 SPACES

TOTAL SPACES REQUIRED: 83 SPACES

TOTAL PARKING SPACES PROVIDED: 83 SPACES + 4 H.C.

MAXIMUM BUILDING HEIGHT: 45' (3 STORIES)

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7

WILLIAM H. HUDDLESTON
REGISTERED ENGINEER
STATE OF TENNESSEE

HUDDLESTON-STEELE
ENGINEERING, INC.
2115 N.W. BROAD STREET, MURFREESBORO, TN 37129
TELEPHONE : 893 - 4084, FAX: 893 - 0080

C-0.0 TITLE SHEET - CIVIL SITE PLAN
1" = 400'-0"

12/9/2021 1:11:05 PM

MHM

McCarty Holsaple McCarty, Inc.
550 W. Main St., Suite 300
Knoxville, TN 37902
t 865.544.2000
www.mhminc.com

Consultants:

CIVIL ENGINEER:

HUDDLESTON-STEELE ENGINEERING INC.
2112 N.W. BROAD ST.
MURFREESBORO, TN 37129
615.893.4084

LANDSCAPE ARCHITECT:

RAGAN SMITH
100 E. VINE ST., STE 200
MURFREESBORO, TN 37130
615.546.6050

STRUCTURAL ENGINEER:

HAINES STRUCTURAL GROUP
800 S. GAY ST., STE 1750
KNOXVILLE TN, 37929
865.329.9920

MECHANICAL & PLUMBING ENGINEER:

FACILITY SYSTEMS CONSULTANTS
713 S. CENTRAL ST., STE 101
KNOXVILLE TN, 37902
865.246.0164

ELECTRICAL ENGINEER:

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Project Information:

21026

MHA Parkside Housing
425 N.MAPLE ST,
MURFREESBORO, TN 37130

Consultant:

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1	ORIGINAL ISSUE	11-10-21
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Issue Date:	04.04.2022
PIC	B. HUDDLESTON
PM	B. HUDDLESTON
PA	J. LEONARD
Drawn By:	J. LEONARD
Checked By:	

Sheet Description:

C-0.0

TITLE SHEET

1. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER OF ANY DISCREPANCIES BETWEEN THESE PLANS (OR ANYTHING ASSOCIATED WITH THESE PLANS, E.G. CUT SHEETS) AND THE FIELD CONDITIONS FOUND PRIOR TO OR DURING CONSTRUCTION.

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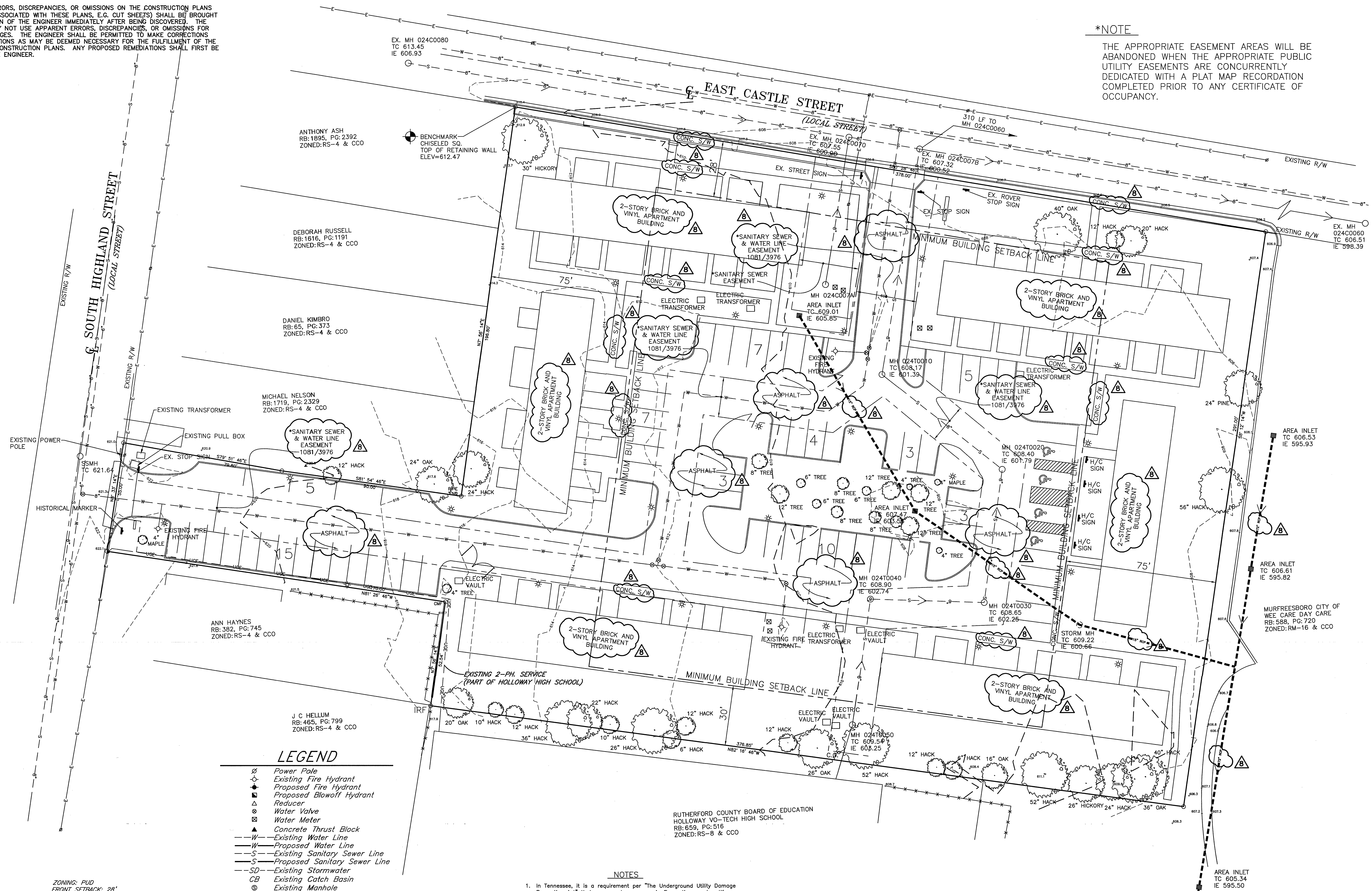
*NOTE

THE APPROPRIATE EASEMENT AREAS WILL BE ABANDONED WHEN THE APPROPRIATE PUBLIC UTILITY EASEMENTS ARE CONCURRENTLY DEDICATED WITH A PLAT MAP RECORDATION COMPLETED PRIOR TO ANY CERTIFICATE OF OCCUPANCY.



LEGEND

Ø	Power Pole
	Existing Fire Hydrant
	Proposed Fire Hydrant
	Proposed Blowoff Hydrant
△	Reducer
⊗	Water Valve
⊠	Water Meter
▲	Concrete Thrust Block
—W—	Existing Water Line
—W—	Proposed Water Line
—S—	Existing Sanitary Sewer Line
—S—	Proposed Sanitary Sewer Line
—SD—	Existing Stormwater
CB	Existing Catch Basin
Ⓢ	Existing Manhole
●	Proposed Manhole
CD	Sewer Line Check Dam
—00—	Existing Contours
—00—	Proposed Contours
00.0	Existing Spot Elevations
00.0	Proposed Spot Elevations
—SF—	Siltation Fence (to be installed before grading and left in place until a good stand of grass is established over all disturbed areas.)
	Turf Reinforcement Mat
	Stone Check Dam
	Existing Light Pole

ZONING: PUD
FRONT SETBACK: 28'
SIDE SETBACK: 75'
REAR SETBACK: 30'

Rear Setback / ZONED PUD / Front Setback / Street / R/W

TYPICAL BUILDING SETBACK DETAIL
N.T.S.

EXISTING CONDITIONS
1" = 20'-0"

NOTES

1. In Tennessee, it is a requirement per "The Underground Utility Damage Prevention Act" that anyone who engages in Excavation must notify all known underground utility owners, no less than three nor more than ten working days of their intent to excavate. A list of these utilities may be obtained from the County Register of Deeds. Those utilities that participate in the Tennessee One Call system can be notified by calling toll free 1-800-351-1111.
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3. This property may be subject to additional easements, and/or restrictions, by record or prescription, that a complete title search may reveal.

OWNER: MURFREESBORO HOUSING AUTHORITY
ADDRESS: 415 N. MAPLE STREET
MURFREESBORO, TN. 37130

TAX MAP: 102D, GROUP "J", PARCEL: 13.00

MAP NUMBER: 47149C0260H
DATED: JANUARY 5, 2007 ZONE: X

NOTE: THIS PARCEL IS SUBJECT TO ALL EASEMENTS AS SHOWN AND ANY OTHER EASEMENTS AND/OR RESTRICTIONS EITHER RECORDED OR BY PRESCRIPTION THAT A COMPLETE TITLE SEARCH MAY REVEAL.

LEGEND

○	IPS	IRON PIN SET (1/2" REBAR WITH STAMPED H-S ENGR)
○	IPF	IRON PIN FND.
□		CONC. MONUMENT FOUND
—x—		FENCE

N / W / E / S GRID

20' 0 20'

THIS SURVEY IS A TOPOGRAPHIC SURVEY FOR INFORMATION ONLY AND IS NOT A GENERAL PROPERTY SURVEY AS DEFINED UNDER RULE 0820-3-.07.

WILLIAM H. HUDDLESTON — REGISTERED LAND SURVEYOR — TENNESSEE No. 1630

HUDDLESTON-STEELE ENGINEERING, INC.
2115 N.W. BROAD STREET, MURFREESBORO, TN 37129
SURVEYING : 893 - 4084, FAX: 893 - 0080

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Project Information:

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Issue Date:	04.04.2022
PIC	B. HUDDLESTON
PM	B. HUDDLESTON
PA	J. LEONARD
Drawn By:	J. LEONARD
Checked By:	

Sheet Description:

C-0.1

EXISTING CONDITIONS

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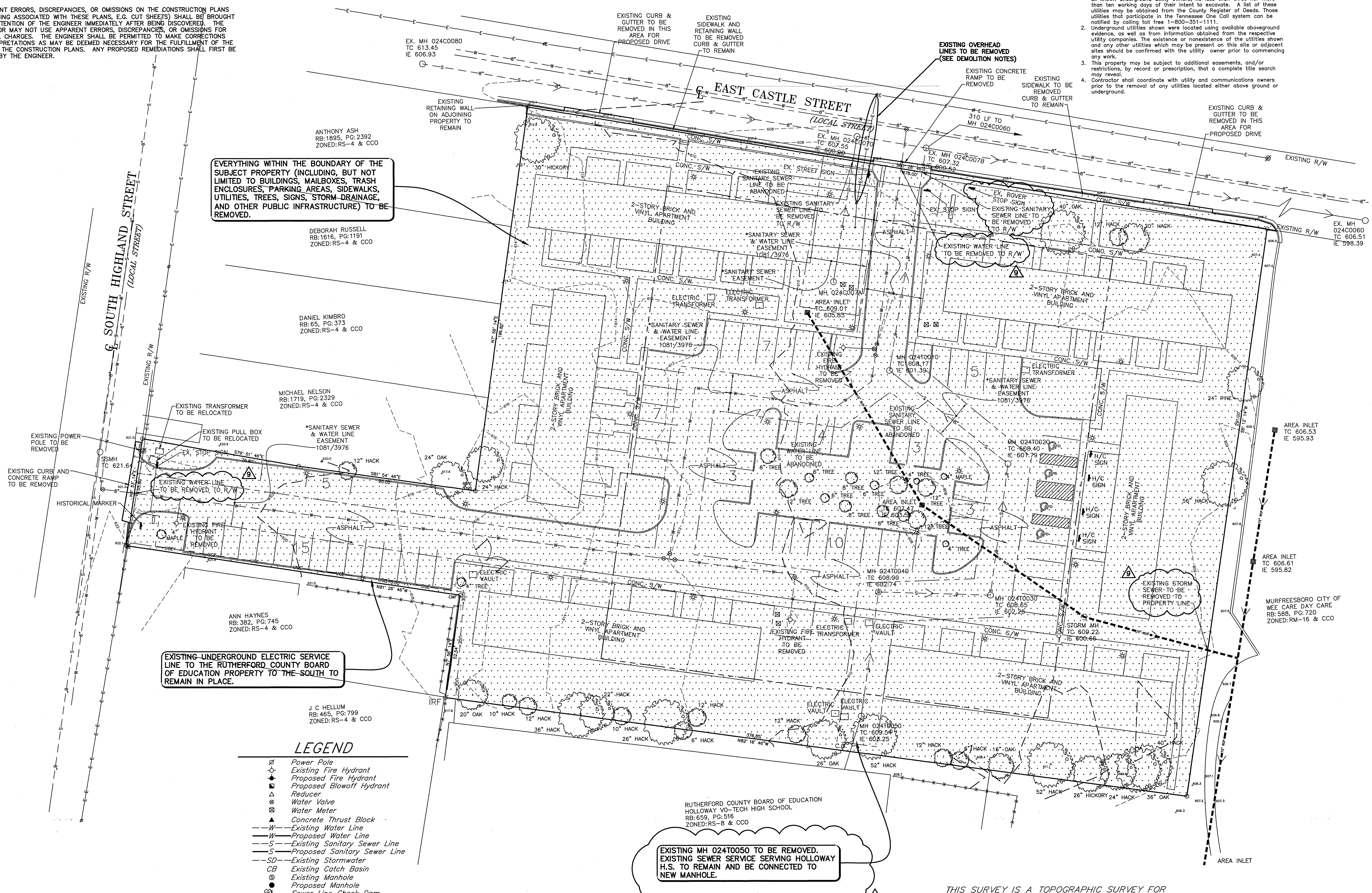
DEMOLITION NOTES

1. In Tennessee, it is a requirement per "The Underground Utility Damage Prevention Act" that anyone who engages in Excavation must notify all known underground utility owners, no less than three nor more than ten working days of their intent to excavate. A list of these utilities may be obtained from the County Register of Deeds. Those utilities that participate in the Tennessee One Call system can be notified by calling toll free 1-800-351-1111.
2. Underground utilities shown were located using available aboveground evidence, as well as from information obtained from the respective utility companies. The existence or nonexistence of the utilities shown and any other utilities which may be present on this site or adjacent sites should be confirmed with the utility owner prior to commencing any work.
3. This property may be subject to additional easements, and/or restrictions, by record or prescription, that a complete title search may reveal.
4. Contractor shall coordinate with utility and communications owners prior to the removal of any utilities located either above ground or underground.



LEGEND

Symbol	Description
Ø	Power Pole
	Existing Fire Hydrant
	Proposed Fire Hydrant
	Proposed Blowoff Hydrant
△	Reducer
⊗	Water Valve
⊠	Water Meter
▲	Concrete Thrust Block
——W——	Existing Water Line
——W——	Proposed Water Line
——S——	Existing Sanitary Sewer Line
——S——	Proposed Sanitary Sewer Line
——SD——	Existing Stormwater
CB	Existing Catch Basin
Ⓢ	Existing Manhole
●	Proposed Manhole
CD	Sewer Line Check Dam
——00——	Existing Contours
——00——	Proposed Contours
00.0	Existing Spot Elevations
00.0	Proposed Spot Elevations
——SF——	Siltation Fence (to be installed before grading and left in place until a good stand of grass is established over all disturbed areas.)
SF INIT. MEAS.	Siltation Fence (Initial Measure)
SF ONCE CONST.	Siltation Fence (Once Constructed)
	Turf Reinforcement Mat
	Stone Check Dam

LEGEND

Symbol	Description
O IPS	IRON PIN SET (1/2" REBAR WITH STAMPED H-S ENGR)
O IPF	IRON PIN FND.
□	CONC. MONUMENT FOUND
—x—x—	FENCE

N / E / S / W — GRID

20' 0 20'

C-0.2 DEMOLITION PLAN
1" = 20'-0"

OWNER: MURFREESBORO HOUSING AUTHORITY
ADDRESS: 415 N. MAPLE STREET
MURFREESBORO, TN. 37130

TAX MAP: 102D, GROUP "J", PARCEL: 13.00

MAP NUMBER: 47149C0260H
DATED: JANUARY 5, 2007 ZONE: X

NOTE: THIS PARCEL IS SUBJECT TO ALL EASEMENTS AS SHOWN AND ANY OTHER EASEMENTS AND/OR RESTRICTIONS EITHER RECORDED OR BY PRESCRIPTION THAT A COMPLETE TITLE SEARCH MAY REVEAL.

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WILLIAM H. HUDDLESTON IV — REGISTERED ENGINEER — STATE OF TENNESSEE

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865.246.0164

ELECTRICAL ENGINEER:
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KNOXVILLE TN, 37902
865.246.0164

Project Information:

21026

MHA Parkside Housing
425 N.MAPLE ST,
MURFREESBORO, TN 37130

Consultant:

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9	QA/QC REVISIONS	10-20-23

Issue Date:	04.04.2022
PIC	B. HUDDLESTON
PM	B. HUDDLESTON
PA	J. LEONARD
Drawn By:	J. LEONARD
Checked By:	

Sheet Description:

C-0.2

DEMOLITION PLAN

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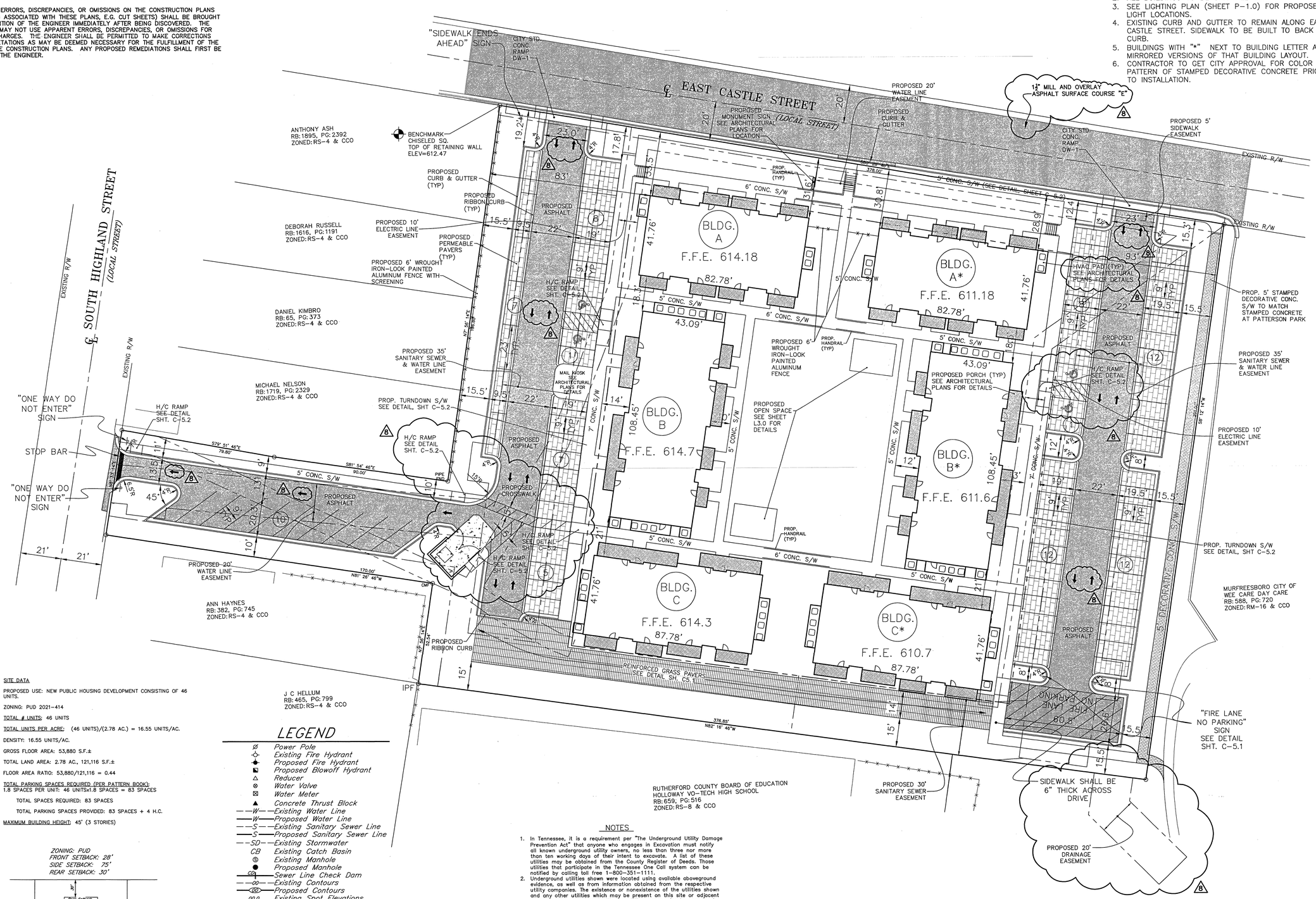
NOTES

1. TRASH SERVICE TO BE PROVIDED BY PRIVATE HAULER.
2. ALL BUILDINGS TO BE SPRINKLERED.
3. SEE LIGHTING PLAN (SHEET P-1.0) FOR PROPOSED LIGHT LOCATIONS.
4. EXISTING CURB AND GUTTER TO REMAIN ALONG EAST CASTLE STREET. SIDEWALK TO BE BUILT TO BACK OF CURB.
5. BUILDINGS WITH "*" NEXT TO BUILDING LETTER ARE MIRRORED VERSIONS OF THAT BUILDING LAYOUT.
6. CONTRACTOR TO GET CITY APPROVAL FOR COLOR AND PATTERN OF STAMPED DECORATIVE CONCRETE PRIOR TO INSTALLATION.



SITE DATA

PROPOSED USE: NEW PUBLIC HOUSING DEVELOPMENT CONSISTING OF 46 UNITS.

ZONING: PUD 2021-414

TOTAL # UNITS: 46 UNITS

TOTAL UNITS PER ACRE: (46 UNITS)/(2.78 AC.) = 16.55 UNITS/AC.

DENSITY: 16.55 UNITS/AC.

GROSS FLOOR AREA: 53,880 S.F.±

TOTAL LAND AREA: 2.78 AC., 121,116 S.F.±

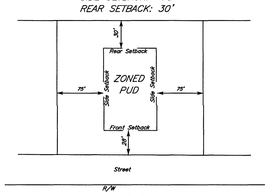
FLOOR AREA RATIO: 53,880/121,116 = 0.44

TOTAL PARKING SPACES REQUIRED (PER PATTERN BOOK):
1.8 SPACES PER UNIT: 46 UNITSx1.8 SPACES = 83 SPACES

TOTAL SPACES REQUIRED: 83 SPACES

TOTAL PARKING SPACES PROVIDED: 83 SPACES + 4 H.C.

MAXIMUM BUILDING HEIGHT: 45' (3 STORIES)



TYPICAL BUILDING SETBACK DETAIL
N.T.S.

LEGEND

- Power Pole
- Existing Fire Hydrant
- Proposed Fire Hydrant
- Proposed Blowoff Hydrant
- Reducer
- Water Valve
- Water Meter
- Concrete Thrust Block
- —W— Existing Water Line
- —W— Proposed Water Line
- —S— Existing Sanitary Sewer Line
- —S— Proposed Sanitary Sewer Line
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- CB Existing Catch Basin
- Existing Manhole
- Proposed Manhole
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- SF INIT. MEAS. Siltation Fence (Initial Measure)
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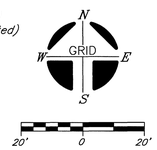
- Stone Check Dam

LEGEND

- IPS IRON PIN SET (1/2" REBAR WITH STAMPED H-S ENGR)
- IPF IRON PIN FND.
- CONC. MONUMENT FOUND
- FENCE



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3. This property may be subject to additional easements, and/or restrictions, by record or prescription, that a complete title search may reveal.
4. All signage, including flags and flagpoles, is subject to review by the Building & Codes Department. All signage must conform to their requirements, and will require separate sign permits.

OWNER: MURFREESBORO HOUSING AUTHORITY
ADDRESS: 415 N. MAPLE STREET
MURFREESBORO, TN. 37130

TAX MAP: 102D, GROUP "J", PARCEL: 13.00

MAP NUMBER: 47149C0260H
DATED: JANUARY 5, 2007 ZONE: X

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C-1.0 CIVIL SITE PLAN
1" = 20'-0"

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Sheet Description:

C-1.0

SITE PLAN

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APPROVED FOR CONSTRUCTION

THE DOCUMENT BEARING THIS STAMP HAS BEEN REVIEWED BY THE MURFREESBORO WATER RESOURCE DEPARTMENT UNDER THE AUTHORITY DELEGATED BY THE TENNESSEE DEPARTMENT OF ENVIRONMENT AND CONSERVATION DIVISION OF WATER POLLUTION CONTROL DIVISION OF WATER SUPPLY AND IS HEREBY APPROVED FOR CONSTRUCTION.

THIS APPROVAL SHALL NOT BE CONSTRUED AS CREATING A PRESUMPTION OF CORRECT OPERATION OR AS WARRANTING BY THE MURFREESBORO WATER AND SEWER DEPARTMENT THAT THE APPROVED FACILITIES WILL REACH THE DESIGNED GOALS.

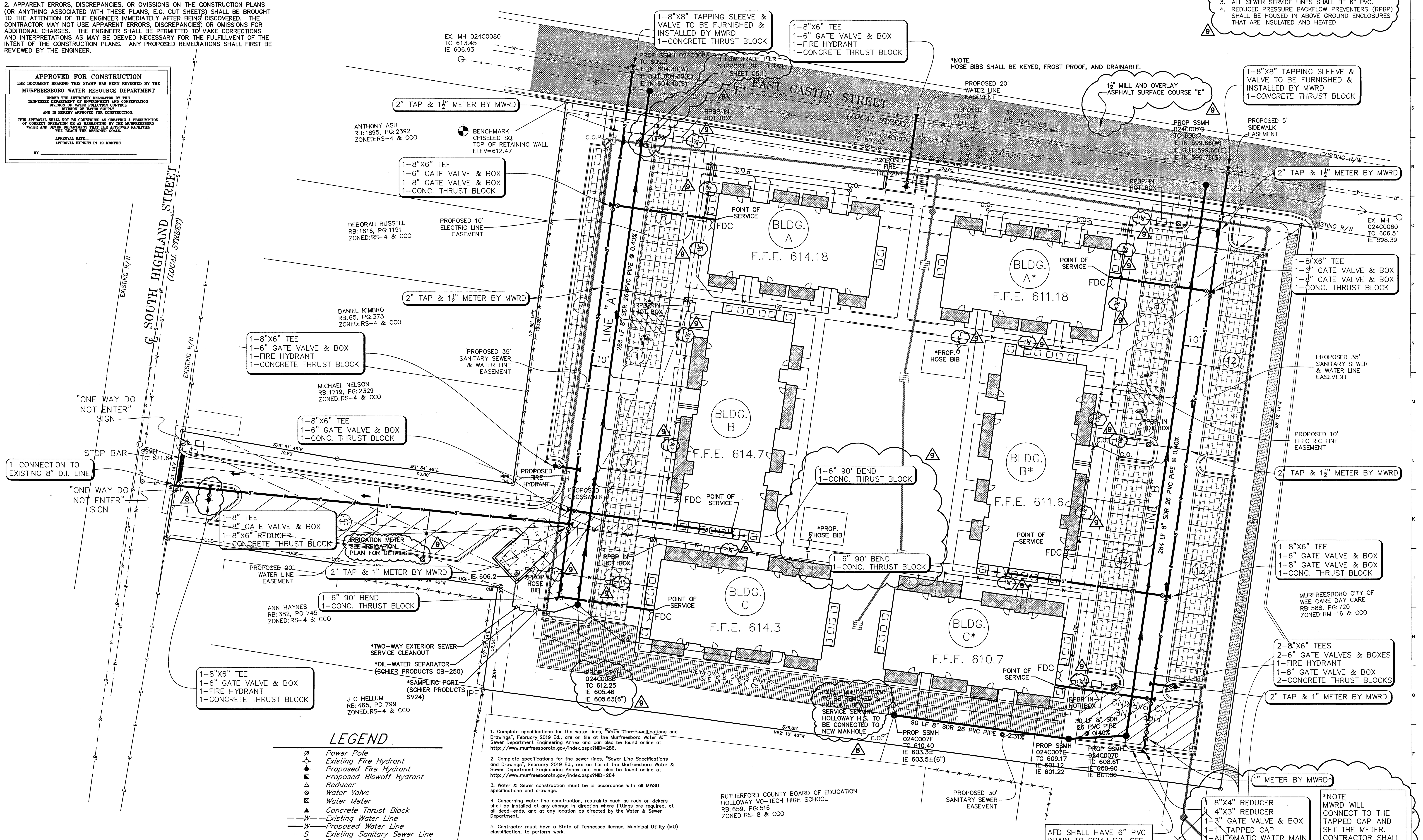
APPROVAL DATE ______
APPROVAL EXPIRES IN 12 MONTHS

BY ______

NOTES

1. ALL BUILDINGS TO BE SPRINKLERED.
2. ALL PUBLIC WATER LINES SHALL BE DUCTILE IRON. ALL PRIVATE LINES AND SERVICES SHALL BE PVC.
3. ALL SEWER SERVICE LINES SHALL BE 6" PVC.
4. REDUCED PRESSURE BACKFLOW PREVENTERS (RPBP) SHALL BE HOUSED IN ABOVE GROUND ENCLOSURES THAT ARE INSULATED AND HEATED.

*NOTE
HOSE BIBS SHALL BE KEYED, FROST PROOF, AND DRAINABLE.



NOTE: SEWER SERVICES SHALL BE 1% MINIMUM. CONTRACTOR TO COORDINATE WITH UNDERGROUND UTILITIES AND ADJUST ACCORDINGLY TO AVOID CONFLICTS.

NOTE: SEWER SERVICES WILL BE CONSIDERED PRIVATE ALL THE WAY TO THE MAIN.

LEGEND

- Ø Power Pole
- Existing Fire Hydrant
- Proposed Fire Hydrant
- Proposed Blowoff Hydrant
- △ Reducer
- ⊗ Water Valve
- Water Meter
- ▲ Concrete Thrust Block
- —W— Existing Water Line
- —W— Proposed Water Line
- —S— Existing Sanitary Sewer Line
- —S— Proposed Sanitary Sewer Line
- —SD— Existing Stormwater
- CB Existing Catch Basin
- Existing Manhole
- ● Proposed Manhole
- Sewer Line Check Dam
- —00— Existing Contours
- —00— Proposed Contours
- 00.0 Existing Spot Elevations
- 00.0 Proposed Spot Elevations
- —SF— Siltation Fence (to be installed before grading and left in place until a good stand of grass is established over all disturbed areas.)
- —SF— INIT. MEAS. Siltation Fence (Initial Measure)
- —SF— ONCE CONST. Siltation Fence (Once Constructed)
- Turf Reinforcement Mat
- Stone Check Dam

LEGEND

- ○ IPS — IRON PIN SET (1/2" REBAR WITH STAMPED H-S ENGR)
- ○ IPF — IRON PIN FND.
- □ — CONC. MONUMENT FOUND
- —x— FENCE

1. Complete specifications for the water lines, "Water Line Specifications and Drawings", February 2019 Ed., are on file at the Murfreesboro Water & Sewer Department Engineering Annex and can also be found online at http://www.murfreesborotn.gov/index.aspx?NID=286.

2. Complete specifications for the sewer lines, "Sewer Line Specifications and Drawings", February 2019 Ed., are on file at the Murfreesboro Water & Sewer Department Engineering Annex and can also be found online at http://www.murfreesborotn.gov/index.aspx?NID=284

3. Water & Sewer construction must be in accordance with all MWSD specifications and drawings.

4. Concerning water line construction, restraints such as rods or kickers shall be installed at any change in direction where fittings are required, at all dead-ends, and at any location as directed by the Water & Sewer Department.

5. Contractor must have a State of Tennessee license, Municipal Utility (MU) classification, to perform work.

6. All main line water taps will be made by the Murfreesboro Water & Sewer Department.

7. Under the current adopted plumbing code, the City of Murfreesboro requires the minimum floor elevation (M.F.E.) to be set at or above the top of casting elevation of the nearest manhole that is upstream of the sewer service connection. As an alternative, the homeowner shall install a backwater valve per the plumbing code and execute and record a release of indemnification against the City of Murfreesboro with regards to the sanitary sewer connection. The builder and/or homeowner shall be responsible for compliance with this requirement.

8. Trench check dams, as called out in the MWSD Specifications, are to be installed at the discretion of the Water & Sewer Department.

9. The existing sewer mains and/or manholes must be (tested / televised) before and after construction. Should the sewer not be (tested / televised) prior to construction any defects found after construction will be the responsibility of the contractor to repair at his or her expense.

10. All proposed manholes must be wrapped in a Conseal, or an approved equal, 12" minimum water and soil barrier wrap at each manhole section joint and at any other manhole component as directed by MWSD.

11. No more than 25 percent of the dollar amount of the Contract may be awarded to subcontractors

12. A maximum of 2 – 6" (6 in.) adjustment rings will be allowed per any existing or proposed manholes associated with this installation. If any manhole requires adjustment beyond the 2 – 6" adjustment rings allowed then the contractor must remove, adjust, or add barrel sections to the manhole to get it to grade at his or her own expense.

13. All newly constructed sanitary sewer mains, rehabilitated sanitary sewer laterals and mains, existing sanitary sewer mains that intersect under or over a newly constructed or removed utility, or any sewer main that has been physically altered in any way must be fully televised via an in-line Closed Circuit Television (CCTV) post construction survey fully compliant with the guidelines set forth by the North American Sanitary Sewer Companies' (NASSCO) Pipeline Assessment Certification Program (PACP) at the expense of the contactor.

GRID
N S E W
20' 0 20'

OWNER: MURFREESBORO HOUSING AUTHORITY
ADDRESS: 415 N. MAPLE STREET
MURFREESBORO, TN. 37130

TAX MAP: 102D, GROUP "J", PARCEL: 13.00

MAP NUMBER: 47149C0260H
DATED: JANUARY 5, 2007 ZONE: X

NOTE: THIS PARCEL IS SUBJECT TO ALL EASEMENTS AS SHOWN AND ANY OTHER EASEMENTS AND/OR RESTRICTIONS EITHER RECORDED OR BY PRESCRIPTION THAT A COMPLETE TITLE SEARCH MAY REVEAL.

HUDDLESTON-STEELE ENGINEERING, INC.
2115 N.W. BROAD STREET, MURFREESBORO, TN 37129
SURVEYING : 893 – 4084, FAX: 893 – 0080

WILLIAM H. HUDDLESTON IV — REGISTERED ENGINEER — STATE OF TENNESSEE

NOTES

1. In Tennessee, it is a requirement per "The Underground Utility Damage Prevention Act" that anyone who engages in Excavation must notify all known underground utility owners, no less than three nor more than ten working days of their intent to excavate. A list of these utilities may be obtained from the County Register of Deeds. Those utilities that participate in the Tennessee One Call system can be notified by calling toll free 1–800–351–1111.
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C-2.0 UTILITIES PLAN
1" = 20'-0"

12/9/2021 1:11:05 PM

MHM

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550 W. Main St., Suite 300
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1.865.544.2000
www.mhminc.com

Consultants:

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615.893.4084

LANDSCAPE ARCHITECT:
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615.546.6050

STRUCTURAL ENGINEER:
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MECHANICAL & PLUMBING ENGINEER:
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713 S. CENTRAL ST., STE 101
KNOXVILLE TN, 37902
865.246.0164

ELECTRICAL ENGINEER:
FACILITY SYSTEMS CONSULTANTS
713 S. CENTRAL ST., STE 101
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Project Information:

21026

MHA Parkside Housing

425 N.MAPLE ST,
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Consultant:

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6	REVISION 01-CITY COMMENTS RESPONSE	8-23-22
7	MWRD COMMENTS	6-2-23
8	MWRD COMMENTS	7-17-23
9	QA/QC REVISIONS	10-20-23

Issue Date:	04.04.2022
PIC	B. HUDDLESTON
PM	B. HUDDLESTON
PA	J. LEONARD
Drawn By:	J. LEONARD
Checked By:	

Sheet Description:

C-2.0

UTILITIES PLAN

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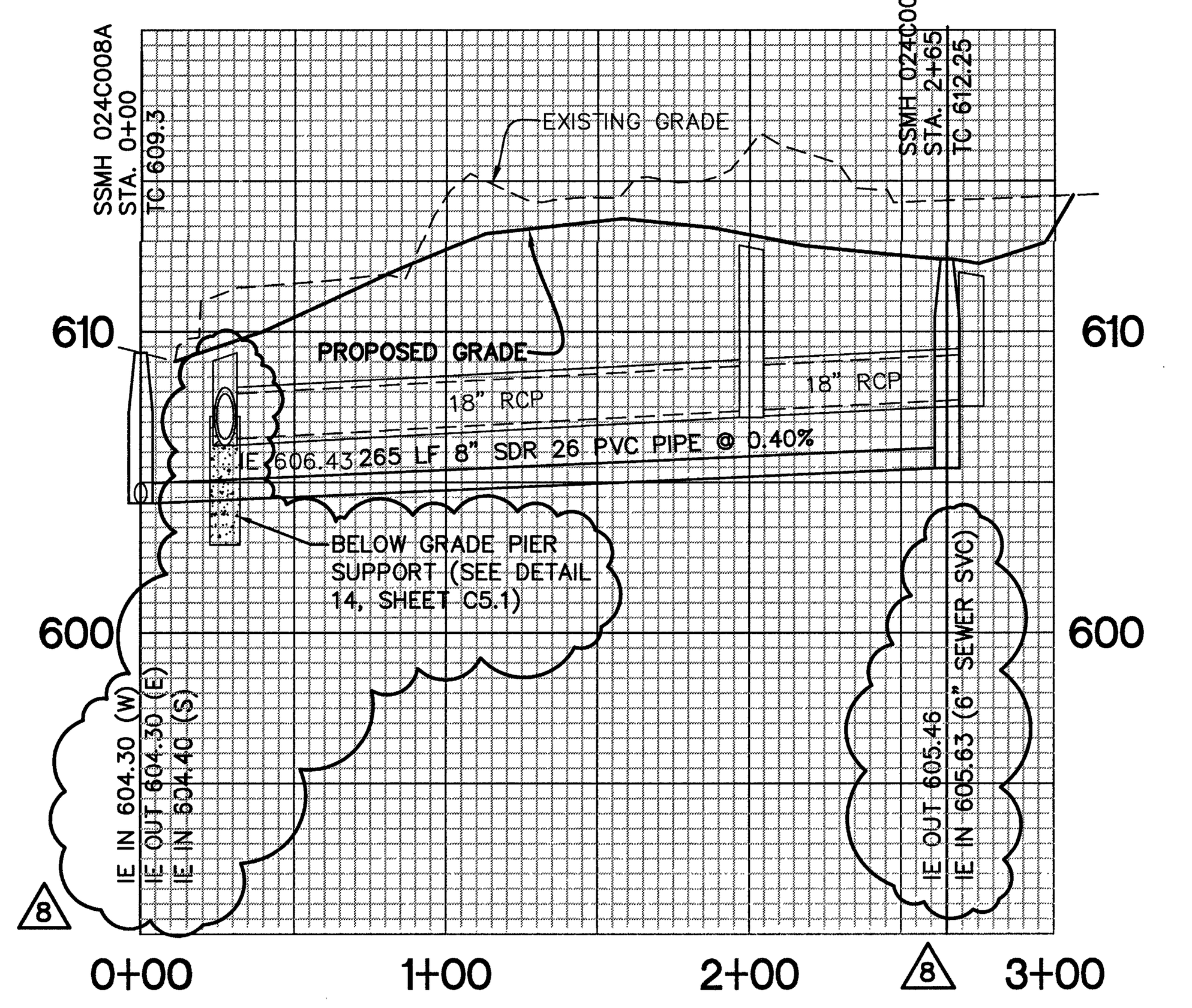
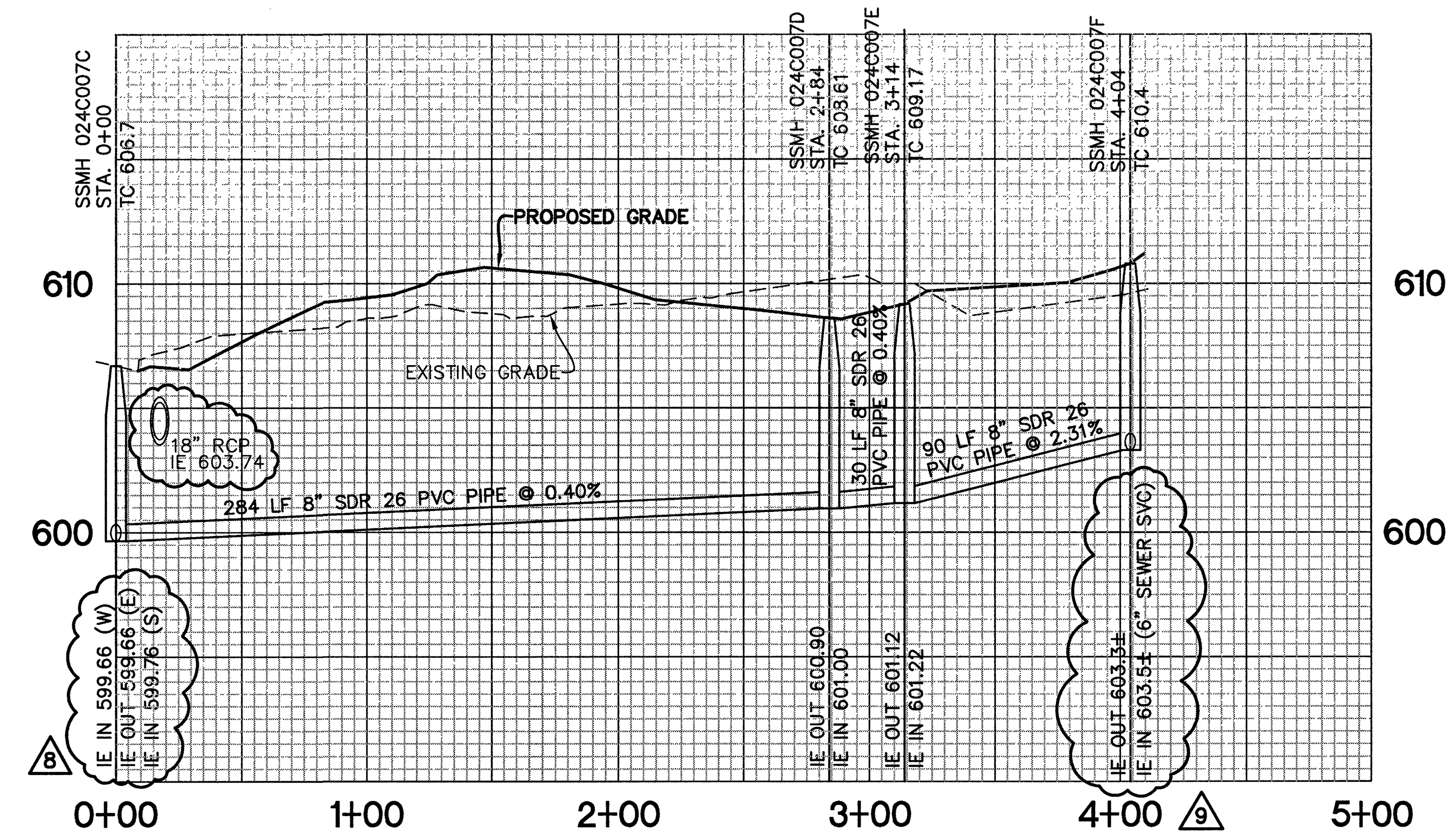


LINE "A"



LINE "B"

C-2.0 SANITARY SEWER PROFILES
HORIZ. 1" = 50'-0"
VERT. 1" = 5'-0"

APPROVED FOR CONSTRUCTION
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MURFREESBORO WATER RESOURCE DEPARTMENT
UNDER THE AUTHORITY DELEGATED BY THE
TENNESSEE DEPARTMENT OF ENVIRONMENT AND CONSERVATION
DIVISION OF WATER POLLUTION CONTROL
DIVISION OF WATER SUPPLY
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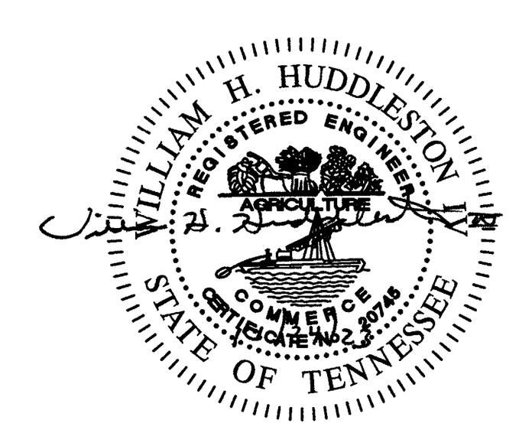
APPROVAL DATE ____________
APPROVAL EXPIRES IN 12 MONTHS

BY ______________________



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Project Information:

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Issue Date:	04.04.2022
PIC	B. HUDDLESTON
PM	B. HUDDLESTON
PA	J. LEONARD
Drawn By:	J. LEONARD
Checked By:	

Sheet Description:

C-2.1

SANITARY SEWER PROFILES

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NOTE

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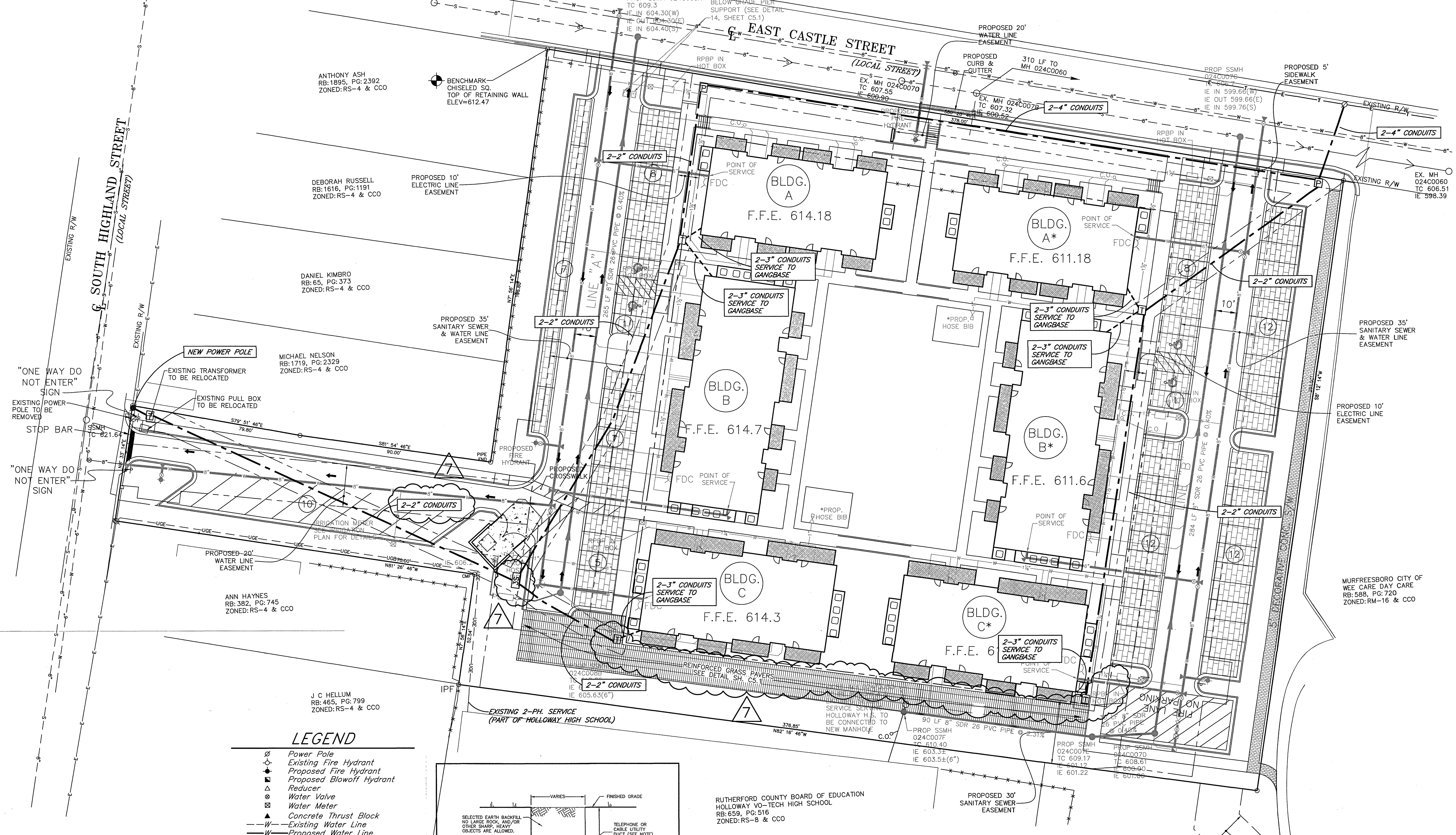
2. ALL PUBLIC WATER LINES SHALL BE DUCTILE IRON.



LEGEND

- Power Pole
- Existing Fire Hydrant
- Proposed Fire Hydrant
- Proposed Blowoff Hydrant
- Reducer
- Water Valve
- Water Meter
- Concrete Thrust Block
- —W— Existing Water Line
- —W— Proposed Water Line
- —S— Existing Sanitary Sewer Line
- —S— Proposed Sanitary Sewer Line
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- CB Existing Catch Basin
- Existing Manhole
- Proposed Manhole
- Sewer Line Check Dam
- Existing Contours
- Proposed Contours
- 00.0 Existing Spot Elevations
- 00.0 Proposed Spot Elevations
- —SF— Siltation Fence (to be installed before grading and left in place until a good stand of grass is established over all disturbed areas.)
- INIT. MEAS. Siltation Fence (Initial Measure)
- ONCE CONST. Siltation Fence (Once Constructed)
- Turf Reinforcement Mat
- Stone Check Dam

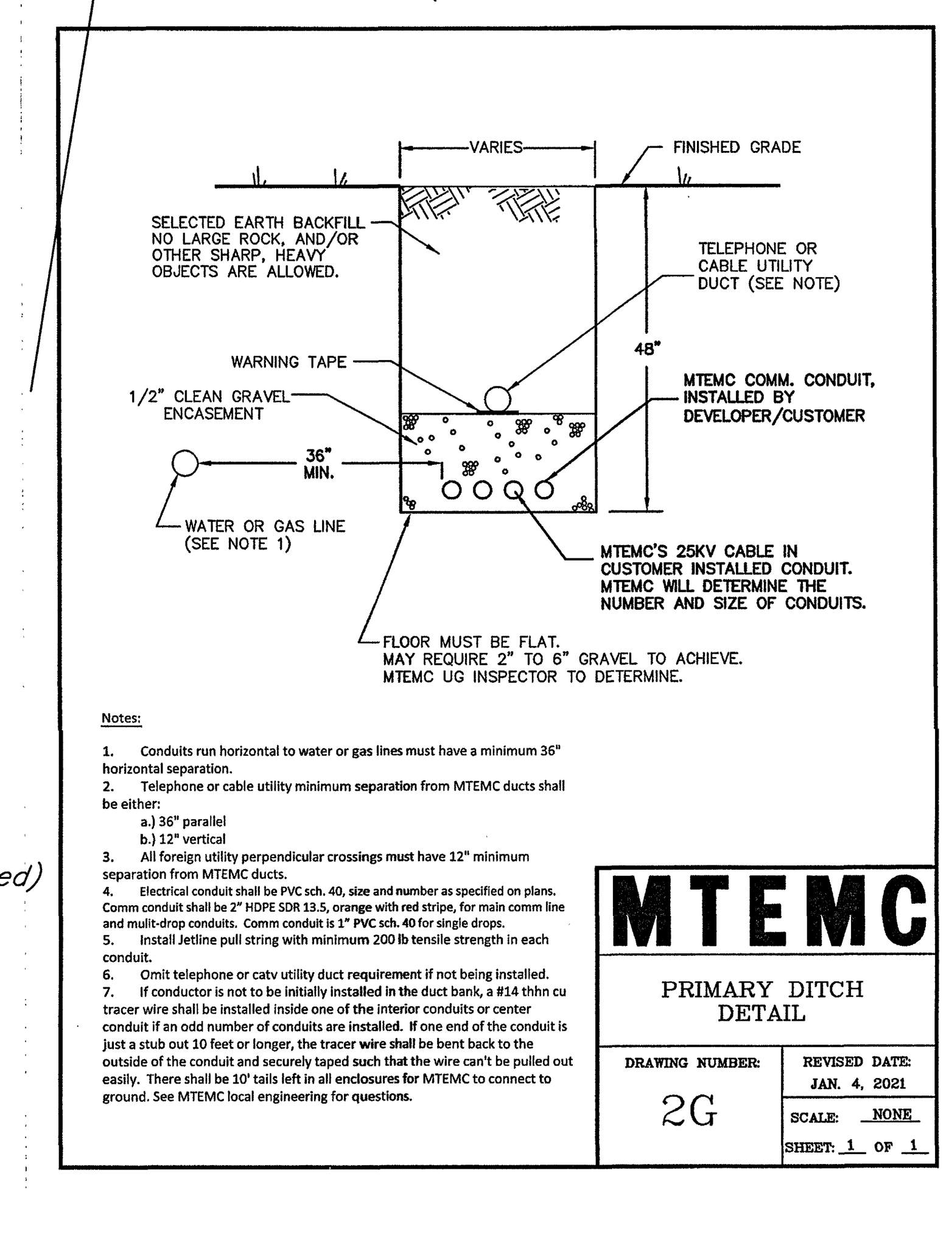
LEGEND

- IPS IRON PIN SET (1/2" REBAR WITH STAMPED H-S ENGR)
- IPF IRON PIN FND.
- CONC. MONUMENT FOUND
- FENCE

ELECTRICAL LEGEND

- EXISTING POWER POLE
- PROPOSED POWER POLE
- P PROPOSED PRIMARY PULL BOX
- S PROPOSED SECONDARY PULL BOX
- T PROPOSED PAD MOUNTED TRANSFORMER
- 3S PROPOSED THREE-PHASE SECTOR
- PROPOSED TRENCH
- PROPOSED TRENCH

C-2.2 ELECTRICAL SITE PLAN
1" = 20'-0"



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OWNER: MURFREESBORO HOUSING AUTHORITY
ADDRESS: 415 N. MAPLE STREET MURFREESBORO, TN. 37130

TAX MAP: 102D, GROUP "J", PARCEL: 13.00

MAP NUMBER: 47149C0260H
DATED: JANUARY 5, 2007 ZONE: X

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Project Information:

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Issue Date:	04.04.2022
PIC	B. HUDDLESTON
PM	B. HUDDLESTON
PA	J. LEONARD
Drawn By:	J. LEONARD
Checked By:	

Sheet Description:

C-2.2

ELECTRICAL SITE PLAN

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NOTE: CONTRACTOR TO ENSURE STORMWATER FLOWS AWAY FROM ALL BUILDINGS AT A 0.50% MINIMUM GRADE.

STORM DRAINAGE NOTES

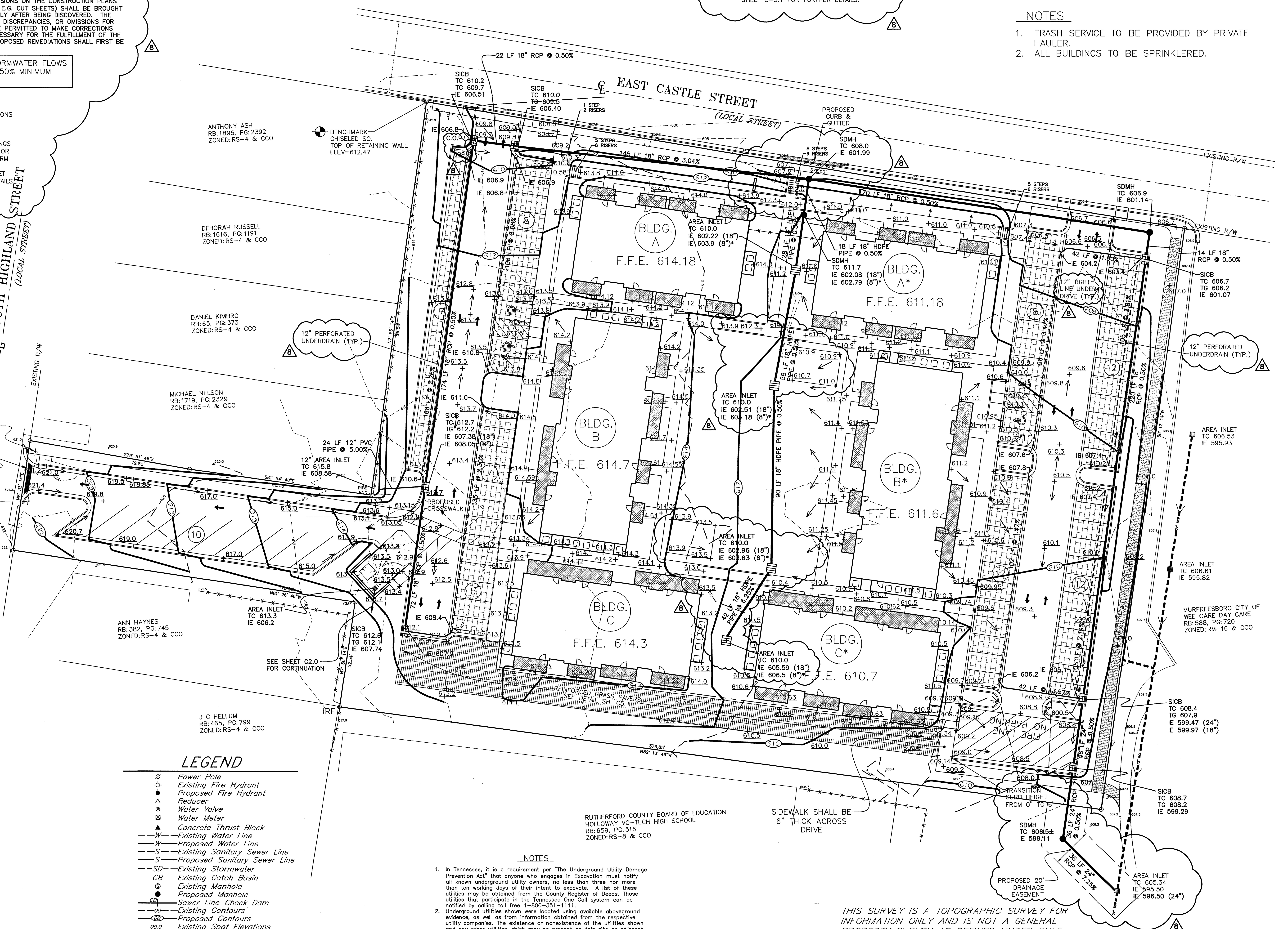
1. ALL SINGLE INLET CATCH BASIN (SICB) CASTINGS SHALL BE JOHN BOUCHARD & SONS (JBS) #3080 CURB INLETS OR EQUIVALENT
2. ALL AREA INLET CASTINGS SHALL BE JBS #4310 FRAMES & GRATES OR EQUIVALENT.
3. ALL STORM DRAIN MANHOLE (SDMH) CASTINGS SHALL BE JBS #1155 FRAMES & COVERS OR EQUIVALENT AND SHALL BE LETTERED "STORM DRAIN".
4. SEE THE CITY OF MURFREESBORO'S "STREET DESIGN SPECIFICATIONS" FOR FURTHER DETAILS FOR AREA DRAINS, CURB INLETS, STORM DRAIN MANHOLES, AND UNDERDRAINS.

*STORM DRAINAGE STRUCTURES NOTE

1. 8" INVERT IS FOR DOWNSPOUT DRAINS. SEE SHEET C-3.1 FOR FURTHER DETAILS.

NOTES

1. TRASH SERVICE TO BE PROVIDED BY PRIVATE HAULER.
2. ALL BUILDINGS TO BE SPRINKLERED.



LEGEND

Ø	Power Pole
	Existing Fire Hydrant
	Proposed Fire Hydrant
△	Reducer
⊗	Water Valve
⊠	Water Meter
▲	Concrete Thrust Block
——W——	Existing Water Line
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——S——	Proposed Sanitary Sewer Line
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CB	Existing Catch Basin
Ⓢ	Existing Manhole
●	Proposed Manhole
CD	Sewer Line Check Dam
——00——	Existing Contours
——(00)——	Proposed Contours
00.0	Existing Spot Elevations
00.0	Proposed Spot Elevations
——SF——	Siltation Fence (to be installed before grading and left in place until a good stand of grass is established over all disturbed areas.)
——SF—— INIT. MEAS.	Siltation Fence (Initial Measure)
——SF—— ONCE CONST.	Siltation Fence (Once Constructed)
	Turf Reinforcement Mat
	Stone Check Dam

LEGEND

O	IPS	IRON PIN SET (1/2" REBAR WITH STAMPED H-S ENGR)
O	IPF	IRON PIN FND.
□		CONC. MONUMENT FOUND
—x—x—		FENCE

N GRID S W E

20' 0 20'

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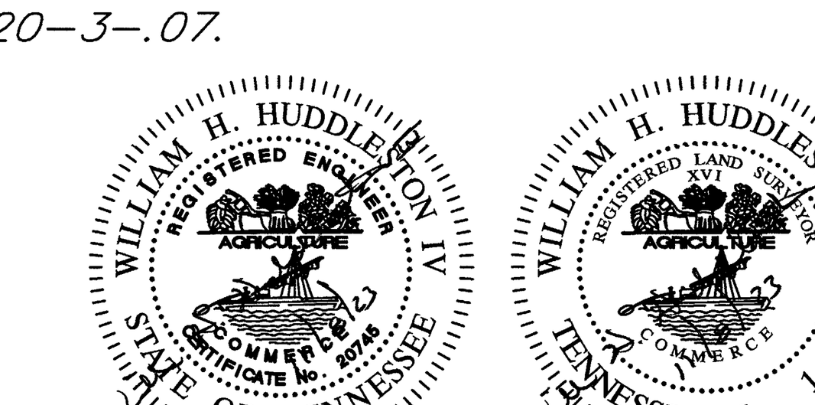
THIS SURVEY IS A TOPOGRAPHIC SURVEY FOR INFORMATION ONLY AND IS NOT A GENERAL PROPERTY SURVEY AS DEFINED UNDER RULE 0820-3-.07.



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C-3.0 GRADING & DRAINAGE PLAN
1" = 20'-0"

MHM

McCarty Holsaple McCarty, Inc.
550 W. Main St., Suite 300
Knoxville, TN 37902
t 865.544.2000
www.mhminc.com

Consultants:

CIVIL ENGINEER:
HUDDLESTON-STEELE ENGINEERING INC.
2112 N.W. BROAD ST.
MURFREESBORO, TN 37129
615.893.4084

LANDSCAPE ARCHITECT:
RAGAN SMITH
100 E. VINE ST., STE 200
MURFREESBORO, TN 37130
615.546.6050

STRUCTURAL ENGINEER:
HAINES STRUCTURAL GROUP
800 S. GAY ST., STE 1750
KNOXVILLE TN, 37929
865.329.9920

MECHANICAL & PLUMBING ENGINEER:
FACILITY SYSTEMS CONSULTANTS
713 S. CENTRAL ST., STE 101
KNOXVILLE TN, 37902
865.246.0164

ELECTRICAL ENGINEER:
FACILITY SYSTEMS CONSULTANTS
713 S. CENTRAL ST., STE 101
KNOXVILLE TN, 37902
865.246.0164

Project Information:

21026

MHA Parkside Housing
425 N.MAPLE ST,
MURFREESBORO, TN 37130

Consultant:

#	ISSUE	DATE
1	ORIGINAL ISSUE	11-10-21
2	CITY STAFF COMMENTS	12-1-21
3	CITY STAFF COMMENTS	12-9-21
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6	REVISION 01-CITY COMMENTS RESPONSE	8-23-22
7	REV. STORM DRAINAGE	7-17-23
8	QA/QC REVISIONS	10-20-23

Issue Date:	04.04.2022
PIC	B. HUDDLESTON
PM	B. HUDDLESTON
PA	J. LEONARD
Drawn By:	J. LEONARD
Checked By:	

Sheet Description:

C-3.0

GRADING & DRAINAGE PLAN

1. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER OF ANY DISCREPANCIES BETWEEN THESE PLANS (OR ANYTHING ASSOCIATED WITH THESE PLANS, E.G. CUT SHEETS) AND THE FIELD CONDITIONS FOUND PRIOR TO OR DURING CONSTRUCTION.

2. APPARENT ERRORS, DISCREPANCIES, OR OMISSIONS ON THE CONSTRUCTION PLANS (OR ANYTHING ASSOCIATED WITH THESE PLANS, E.G. CUT SHEETS) SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER IMMEDIATELY AFTER BEING DISCOVERED. THE CONTRACTOR MAY NOT USE APPARENT ERRORS, DISCREPANCIES, OR OMISSIONS FOR ADDITIONAL CHARGES. THE ENGINEER SHALL BE PERMITTED TO MAKE CORRECTIONS AND INTERPRETATIONS AS MAY BE DEEMED NECESSARY FOR THE FULFILLMENT OF THE INTENT OF THE CONSTRUCTION PLANS. ANY PROPOSED REMEDIATIONS SHALL FIRST BE REVIEWED BY THE ENGINEER.

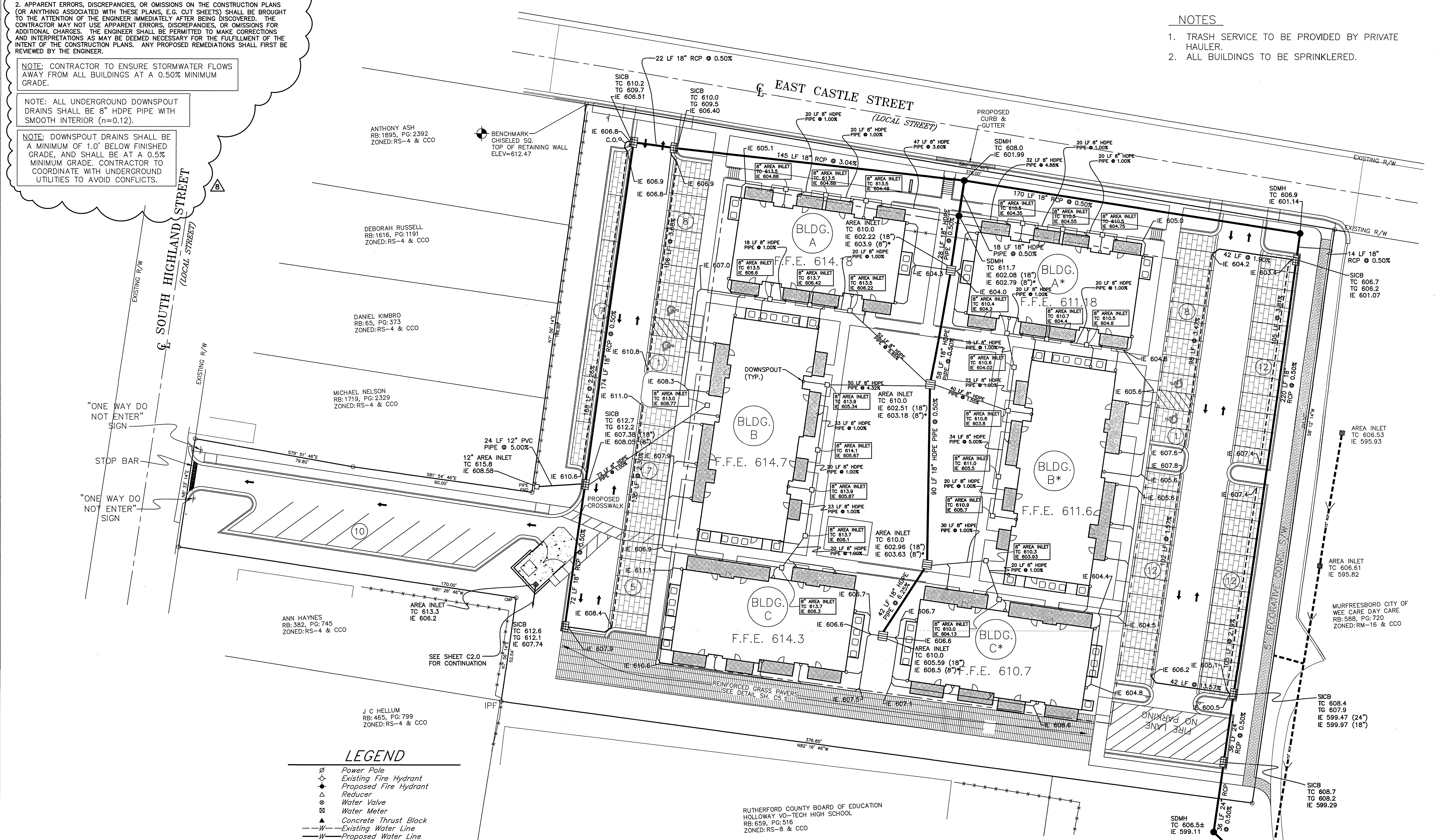
NOTE: CONTRACTOR TO ENSURE STORMWATER FLOWS AWAY FROM ALL BUILDINGS AT A 0.50% MINIMUM GRADE.

NOTE: ALL UNDERGROUND DOWNSPOUT DRAINS SHALL BE 8" HDPE PIPE WITH SMOOTH INTERIOR (n=0.12).

NOTE: DOWNSPOUT DRAINS SHALL BE A MINIMUM OF 1.0' BELOW FINISHED GRADE, AND SHALL BE AT A 0.5% MINIMUM GRADE. CONTRACTOR TO COORDINATE WITH UNDERGROUND UTILITIES TO AVOID CONFLICTS.

NOTES

1. TRASH SERVICE TO BE PROVIDED BY PRIVATE HAULER.
2. ALL BUILDINGS TO BE SPRINKLERED.



RUTHERFORD COUNTY BOARD OF EDUCATION
HOLLOWAY VO-TECH HIGH SCHOOL
RB:659, PG:516
ZONED:RS-8 & CCO

LEGEND

- Ø Power Pole
- Existing Fire Hydrant
- Proposed Fire Hydrant
- △ Reducer
- ⊗ Water Valve
- ⊠ Water Meter
- ▲ Concrete Thrust Block
- —W— Existing Water Line
- —W— Proposed Water Line
- —S— Existing Sanitary Sewer Line
- —S— Proposed Sanitary Sewer Line
- —SD— Existing Stormwater
- CB Existing Catch Basin
- Ⓢ Existing Manhole
- ● Proposed Manhole
- Sewer Line Check Dam
- —00— Existing Contours
- —00— Proposed Contours
- 00.0 Existing Spot Elevations
- 00.0 Proposed Spot Elevations
- —SF— Siltation Fence (to be installed before grading and left in place until a good stand of grass is established over all disturbed areas.)
- INIT. MEAS. Siltation Fence (Initial Measure)
- ONCE CONST. Siltation Fence (Once Constructed)
- Turf Reinforcement Mat
- Stone Check Dam

LEGEND
- ○ IPS IRON PIN SET (1/2" REBAR WITH STAMPED H-S ENGR)
- ○ IPF IRON PIN FND.
- □ CONC. MONUMENT FOUND
- —×— FENCE

NOTES

1. In Tennessee, it is a requirement per "The Underground Utility Damage Prevention Act" that anyone who engages in Excavation must notify all known underground utility owners, no less than three nor more than ten working days of their intent to excavate. A list of these utilities may be obtained from the County Register of Deeds. Those utilities that participate in the Tennessee One Call system can be notified by calling toll free 1-800-351-1111.
2. Underground utilities shown were located using available aboveground evidence, as well as from information obtained from the respective utility companies. The existence or nonexistence of the utilities shown and any other utilities which may be present on this site or adjacent sites should be confirmed with the utility owner prior to commencing any work.
3. This property may be subject to additional easements, and/or restrictions, by record or prescription, that a complete title search may reveal.
4. All signage, including flags and flagpoles, is subject to review by the Building & Codes Department. All signage must conform to their requirements, and will require separate sign permits.

OWNER: MURFREESBORO HOUSING AUTHORITY
ADDRESS: 415 N. MAPLE STREET
MURFREESBORO, TN. 37130

TAX MAP: 102D, GROUP "J", PARCEL: 13.00

MAP NUMBER: 47149C0260H
DATED: JANUARY 5, 2007 ZONE: X

NOTE: THIS PARCEL IS SUBJECT TO ALL EASEMENTS AS SHOWN AND ANY OTHER EASEMENTS AND/OR RESTRICTIONS EITHER RECORDED OR BY PRESCRIPTION THAT A COMPLETE TITLE SEARCH MAY REVEAL.

THIS SURVEY IS A TOPOGRAPHIC SURVEY FOR INFORMATION ONLY AND IS NOT A GENERAL PROPERTY SURVEY AS DEFINED UNDER RULE 0820-3-.07.

WILLIAM H. HUDDLESTON IV — STATE OF TENNESSEE

HUDDLESTON-STEELE ENGINEERING, INC.
2115 N.W. BROAD STREET, MURFREESBORO, TN 37129
SURVEYING : 893 - 4084, FAX: 893 - 0080

C-3.1 DOWNSPOUT PLAN
1" = 20'-0"

MHM

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Project Information:

21026

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Issue Date:	04.04.2022
PIC	B. HUDDLESTON
PM	B. HUDDLESTON
PA	J. LEONARD
Drawn By:	J. LEONARD
Checked By:	

Sheet Description:

C-3.1

DOWNSPOUT PLAN

12/9/2021 1:11:05 PM

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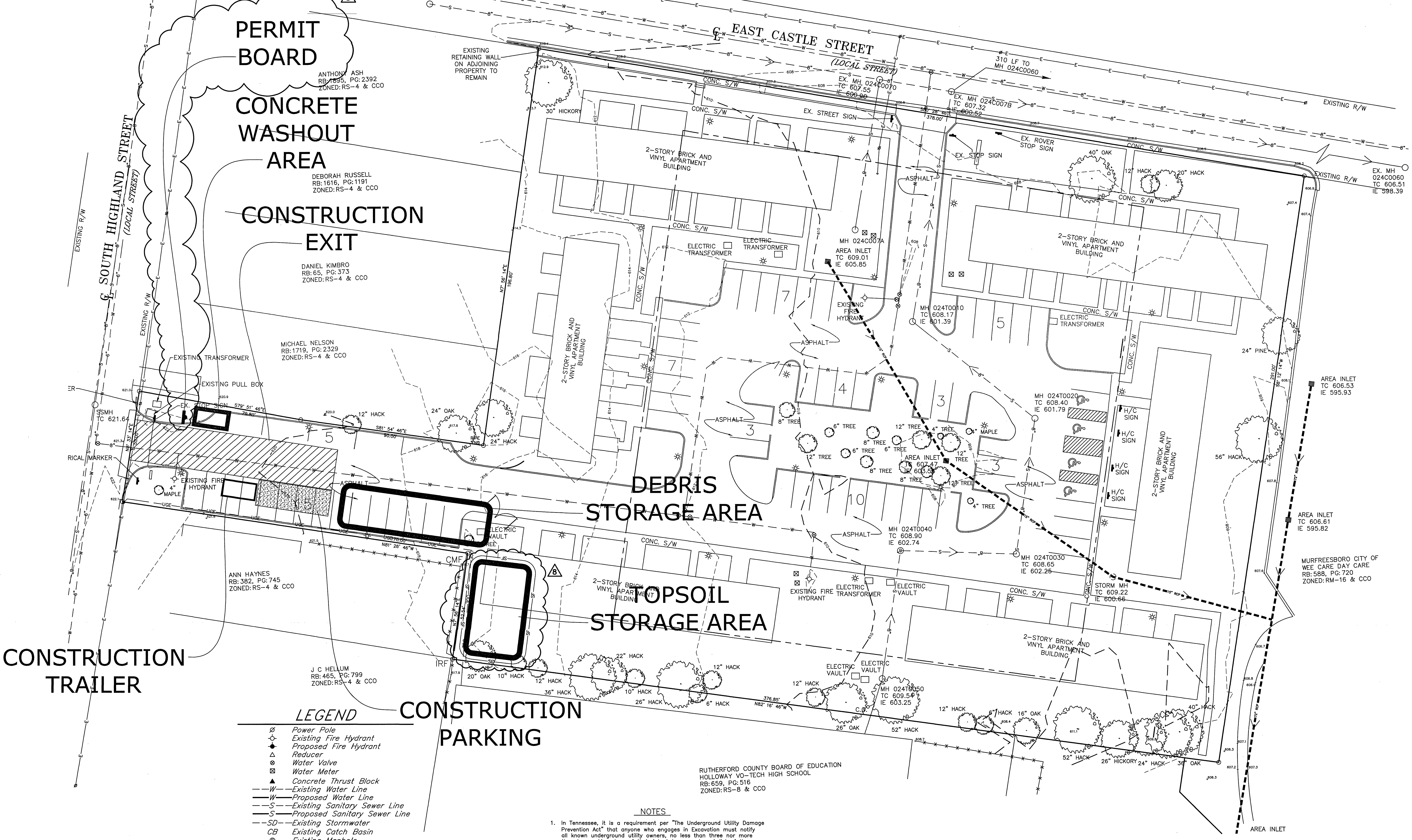

LEGEND

Ø	Power Pole
	Existing Fire Hydrant
	Proposed Fire Hydrant
△	Reducer
⊗	Water Valve
⊠	Water Meter
▲	Concrete Thrust Block
——W——	Existing Water Line
——W——	Proposed Water Line
——S——	Existing Sanitary Sewer Line
——S——	Proposed Sanitary Sewer Line
——SD——	Existing Stormwater
CB	Existing Catch Basin
Ⓢ	Existing Manhole
●	Proposed Manhole
CD	Sewer Line Check Dam
——00——	Existing Contours
——(00)——	Proposed Contours
00.0	Existing Spot Elevations
00.0	Proposed Spot Elevations
——SF——	Siltation Fence (to be installed before grading and left in place until a good stand of grass is established over all disturbed areas.)
——SF—— INIT. MEAS.	Siltation Fence (Initial Measure)
——SF—— ONCE CONST.	Siltation Fence (Once Constructed)
	Turf Reinforcement Mat
	Stone Check Dam

LEGEND

○	IPS	IRON PIN SET (1/2" REBAR WITH STAMPED H-S ENGR)
○	IPF	IRON PIN FND.
□		CONC. MONUMENT FOUND
—×—×—		FENCE

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MAP NUMBER: 47149C0260H
DATED: JANUARY 5, 2007 ZONE: X
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GRID N S E W

20' 0 20'

C-4.0 CONSTRUCTION FACILITIES PLAN
1" = 20'-0"

WILLIAM H. HUDDLESTON REGISTERED ENGINEER STATE OF TENNESSEE

HUDDLESTON-STEELE ENGINEERING, INC.
2115 N.W. BROAD STREET, MURFREESBORO, TN 37129
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Project Information:

21026

MHA Parkside Housing
425 N.MAPLE ST,
MURFREESBORO, TN 37130

Consultant:

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8	QA/QC REVISIONS	10-20-23

Issue Date:	04.04.2022
PIC	B. HUDDLESTON
PM	B. HUDDLESTON
PA	J. LEONARD
Drawn By:	J. LEONARD
Checked By:	

Sheet Description:

C-4.0

CONSTRUCTION FACILITIES PLAN

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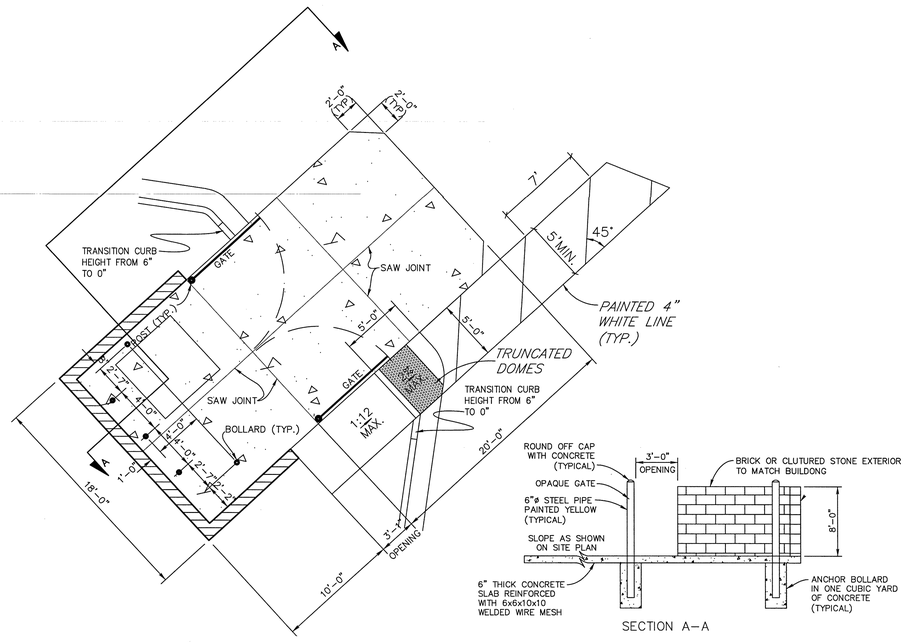
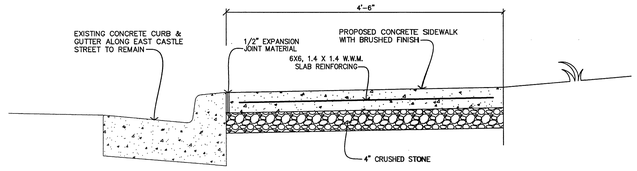


PLAN VIEW

SECTION A–A

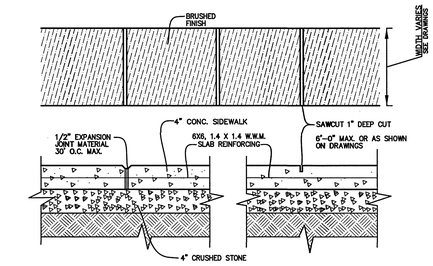
ENCLOSED DUMPSTER PAD W/ WALK–THRU & GATE DETAIL 7

SCALE: NOT TO SCALE



SIDEWALK ALONG EAST CASTLE STREET DETAIL 5

SCALE: NOT TO SCALE



SIDEWALK & CONTROL JOINTS DETAIL 1

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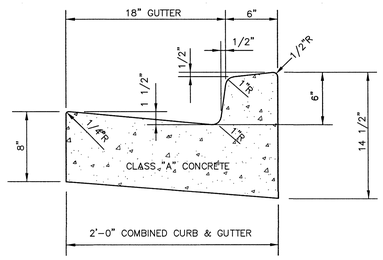
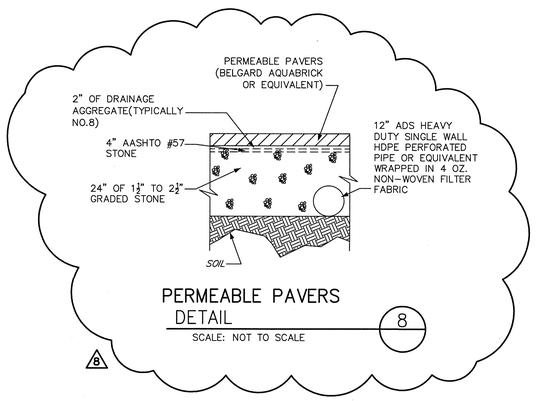


CONC. CURB & GUTTER DETAIL 2

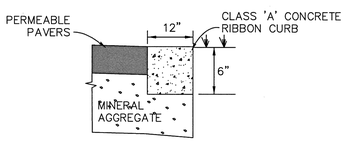
SCALE: NOT TO SCALE



PERMEABLE PAVERS DETAIL 8

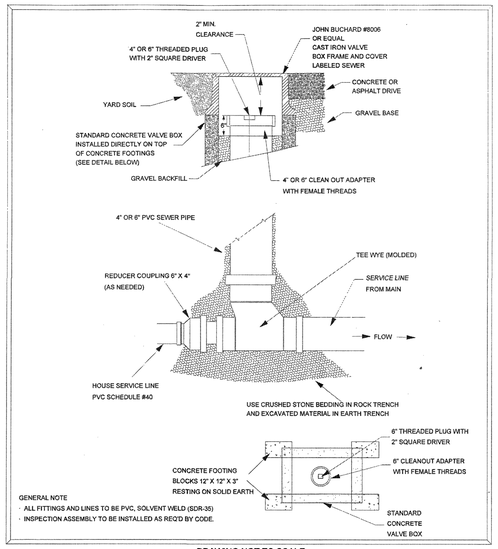
SCALE: NOT TO SCALE

8



CONCRETE RIBBON CURB DETAIL 9

SCALE: NOT TO SCALE



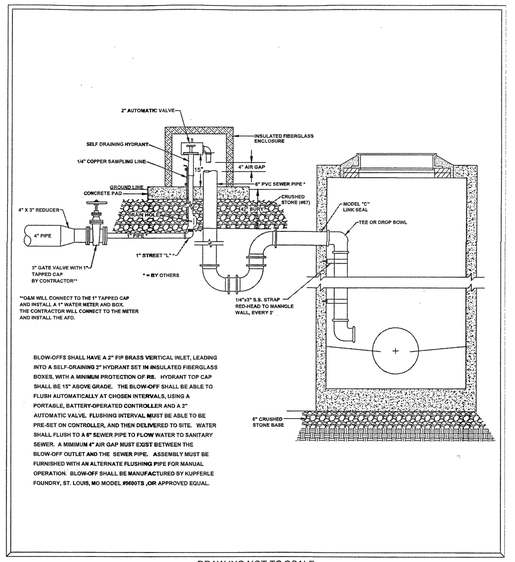
DRAWING NOT TO SCALE

APRIL 24, 2006 DRAWN BY: KMC APPROVED BY: GH	EXTERIOR SEWER SERVICE CLEANOUT DETAIL	STANDARD DRAWING NO. P-3

MURFREESBORO WATER & SEWER DEPARTMENT

MWRD EXTERIOR SEWER SERVICE CLEANOUT DETAIL 6

SCALE: NOT TO SCALE



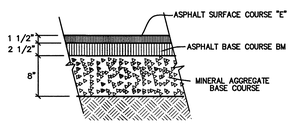
DRAW ING NOT TO SCALE

JANUARY 2019 DRAWN BY: DKH APPROVED BY: VHS DATE REVISED:	AUTOMATIC WATER MAIN BLOW-OFF AFD ASSEMBLY	STANDARD DRAWING NO. W-22B

MURFREESBORO WATER RESOURCES DEPARTMENT

MWRD AUTOMATIC WATER MAIN BLOW–OFF AFD ASSEMBLY DETAIL 10

SCALE: NOT TO SCALE



ASPHALT PAVEMENT DETAIL 3

SCALE: NOT TO SCALE

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C-5.0 DETAILS
SCALE AS SHOWN

MHM

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7	MWRD COMMENTS	6-2-23
8	QA/QC REVISIONS	10-20-23

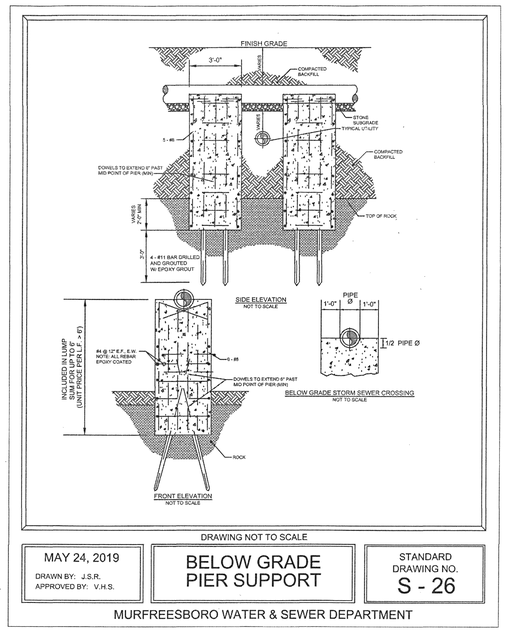
Issue Date:	12.23.2021
PIC	M. BUTLER
PM	M. BUTLER
PA	G. TAYLOR
Drawn By:	G.TAYLOR
Checked By:	Project.Checked By

Sheet Description:

C-5.0

DETAILS

HUDDLESTON-STEELE ENGINEERING, INC.
2115 N.W. BROAD STREET, MURFREESBORO, TN 37129
SURVEYING : 893 – 4084, FAX: 893 – 0080



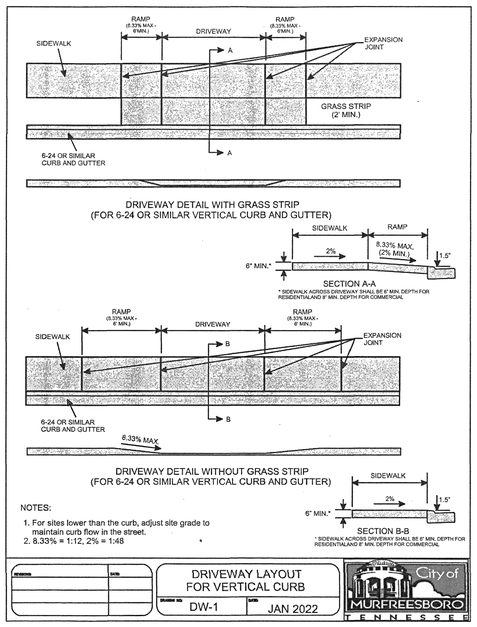
DRAWING NOT TO SCALE

MAY 24, 2019	BELOW GRADE PIER SUPPORT	STANDARD DRAWING NO.
DRAWN BY: J.S.R. APPROVED BY: V.H.S.		S - 26

MURFREESBORO WATER & SEWER DEPARTMENT

MWRD BELOW GRADE PIER SUPPORT
DETAIL 14
SCALE: NOT TO SCALE

FIRE LANE NO PARKING SIGN
DETAIL 12
SCALE: NOT TO SCALE



NOTES:
1. For sites lower than the curb, adjust site grade to maintain curb flow in the street.
2. 8.33% = 1:12, 2% = 1:48

DESCRIPTION	DATE

DRIVEWAY LAYOUT FOR VERTICAL CURB
DRAWING NO. DW-1 DATE JAN 2022

City of MURFREESBORO TENNESSEE

CITY STD. CONCRETE RAMP
DETAIL 13
SCALE: NOT TO SCALE

Notes:
1. This information is based on the use of Geoblock5150 manufactured by Reynolds Presto Products, Inc. All rights reserved. Any use of this information for any rigid porous paver product other than that manufactured by Reynolds Presto Products, Inc. is strictly prohibited and makes this information invalid.
2. Engineered base is a homogenous mixture consisting of open graded crushed aggregate having an AASHTO # 5 or similar designation blended with pulverized topsoil and a void component generally containing air and/or water. This homogenous mixture will promote vegetative growth and provide required structural support. The aggregate portion shall have a particle range from 9.5 mm to 25 mm (0.375 to 1.0 in) with a D50 of 13 mm (0.5 in). The percentage void–space of the aggregate portion when compacted shall be at least 30%. The pulverized topsoil portion shall equal 33% +/– of the total volume and be added and blended to produce a homogenous mixture prior to placement.
3. If required, provide a non–woven geotextile separation layer and install in accordance with Manufacturer recommendations including overlaps based on sub grade CBR.
4. Connect Geoblock 5150 panels with the interlocking offset tab so that adjacent sections have horizontally level profiles.
5. Refer to the Geoblock 5150 Design and Construction Overview for a complete description of the design and construction methods.

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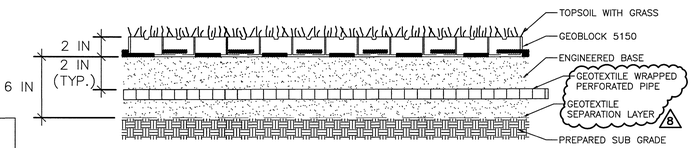
2. Drainage pipe shall be a perforated pipe, sized for expected hydraulic volume, and daylighted at a suiteable location. The Engineer of Record shall be responsible for the design of the drainage system.
3. A minimum of 2 inches of Engineered Base material shall be placed between the drainage system and the GeoBlock5150 panels.
4. Refer to the Geoblock5150 Design and Construction Overview for a complete description of the design and construction methods.



Copy of Geosystems Logo (4x2.jpg)	PRESTO® PRODUCTS CO. 670 NORTH PERKINS STREET APPLETON, WI 54914 920-738-1343 WWW.PRESTOGEO.COM
GEOBLOCK 5150 UNDERDRAIN POROUS PAVEMENT SYSTEM	
PRESTO, GEOSYSTEMS® AND GEOBLOCK® ARE REGISTERED TRADEMARKS OF PRESTO PRODUCTS.	
DATE: MARCH 2020	FILE NAME: GB5150C1.dwg
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REINFORCED GRASS PAVERS
DETAIL 9
SCALE: NOT TO SCALE

PRESTO GEOSYSTEMS

GEOBLOCK®5150
POROUS PAVEMENT SYSTEM
SPECIFICATION SUMMARY

Table 1 Geoblock®5150 Porous Pavement Unit

Item	Specification & Details
Material	Up to 97% Recycled Polyethylene *
Color	Ranges Dark Shades Gray to Black
Chemical Resistance	Superior
Carbon Black for Ultraviolet Light Stabilization	1.5% - 2.0%
Unit Minimum Crush Strength (Empty) @ 70°F (21°C)	420 psi (2,900 KPa)
Unit Minimum Crush Strength (Sand-Filled) @ 70°F (21°C)	7,058 psi (48,734 KPa)
Flexural Modulus @ 70°F (21°C)	35,000 psi (240,000 kPa)
Nominal Dimensions (width x length)	20 in x 40 in (0.5 m x 1.0 m)
Nominal Unit Depth	2.0 in (50 mm)
Nominal Coverage Area	5.3 ft² (0.5 m²)
Cells per Unit	72
Cell Size	3.1 in x 3.2 in (79 mm x 81 mm)
Top Open Area per Unit	87%
Bottom Open Area per Unit	41%
Weight per Unit (nominal)	8.7 lb (4.0 kg)
Runoff Coefficient @ 2.5 in/hr (64 mm/hr) Rainfall	0.15
Units per Pallet	50

- * The percentage of recycled content may vary depending on availability of recycled materials.
- Dimensions and weight are subject to manufacturing tolerances and are influenced by recycled components.
- End-to-end or side-to-side warp of the Geoblock5150 unit shall not be greater than 0.5 in (6 mm).
- Avoid specifications that state material compressive strength only. Material compressive strength, with applied factors of safety must be sufficient to resist compressive and lateral loads. In addition, ultra-high compressive strength adds little value to a porous pavement system.

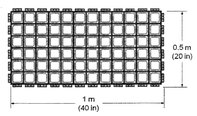

Figure 1 Geoblock5150 Unit Nominal Dimensions

Figure 2 Geoblock5150 Cell and Interlocking Offset Tab

PRESTO GEOSYSTEMS
670 N PERKINS STREET, APPLETON, WISCONSIN, USA 54914
Ph: 920-738-1328 or 800-548-3424 ■ Fax: 920-738-1222
e-mail: INFO@PRESTOGEO.COM WWW.PRESTOGEO.COM

1 APRIL 2015

PRESTO GEOSYSTEMS

GEOBLOCK®5150
POROUS PAVEMENT SYSTEM
SPECIFICATION SUMMARY

Table 2 Base Recommendations for Geoblock®5150

Load Description[1]	*Depth of Engineered Base* CBR^2 2 – 4[3]	CBR^2 > 4[3]
Heavy Fire Truck Access & H/HS-20 loading. Typical 110 psi (758 kPa) maximum tire pressure. Single axle loadings of 32 kips (145 kN), tandem axle loadings of 48 kip (220 kN). Gross vehicle loads of 80,000 lbs (36.3 MT). Infrequent passes[4].	6 in (150 mm)	4 in (100 mm)
Light Fire Truck Access & H/HS-15 loading. Typical 85 psi (586 kPa) maximum tire pressure. Single axle loadings of 24 kips (110 kN). Gross vehicle loads of 60,000 lb (27.2 MT). Infrequent passes[4].	4 in (100 mm)	2 in (50 mm)
Utility & Delivery Truck Access & H/HS-10 loading. Typical 60 psi (414 kPa) maximum tire pressure. Single axle loadings of 16 kips (75 kN). Gross vehicle loads of 40,000 lbs (18.1 MT). Infrequent passes[4].	2 in (50 mm)	2 in (50 mm)
Cars & Pick-up Truck Access. Typical 45 psi (310 kPa) maximum tire pressure. Single axle loadings of 4 kips (18 kN). Gross vehicle loads of 8,000 lbs (3.6 MT). Infrequent passes[4].	None	None
Trail Use. Loading for pedestrian, wheelchair, equestrian, bicycle, motorcycle and ATV traffic.	None	None

[1] The Geoblock5150 system can be applied in areas where loading is greater than those listed above. In these situations, call Presto Geosystems or an authorized Presto Geosystems' representative for specific recommendations.

[2] CBR is the abbreviation for California Bearing Ratio. Methods for determining CBR vary from more sophisticated laboratory methods to simple field identification methods that use hand manipulation of the soil. Presto does not recommend one method over the other; however, the user must have a high degree of confidence in the results produced by the chosen method.

[3] If other-than-CBR soil strength values exist, use available correlation charts to relate the value to CBR.

[4] Infrequent passes is defined as the number of passes over any period of time that causes no lasting damage to the vegetation. This number will be a function of vegetation type and age, climatic conditions, and maintenance practices. This number is not a function of the Geoblock5150 material.

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REINFORCED GRASS PAVERS
SPECIFICATIONS 10
SCALE: NOT TO SCALE

1. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER OF ANY DISCREPANCIES BETWEEN THESE PLANS (OR ANYTHING ASSOCIATED WITH THESE PLANS, E.G. CUT SHEETS) AND THE FIELD CONDITIONS FOUND PRIOR TO OR DURING CONSTRUCTION.

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C-5.1 DETAILS
SCALE AS SHOWN

HUDDLESTON-STEELE ENGINEERING, INC.
2115 N.W. BROAD STREET, MURFREESBORO, TN 37129
SURVEYING : 893 – 4084, FAX: 893 – 0080

MHM
McCarty Holsaple McCarty, Inc.
550 W. Main St., Suite 300
Knoxville, TN 37902
t 865.544.2000
www.mhminc.com

Consultants:

CIVIL ENGINEER:
HUDDLESTON-STEELE ENGINEERING INC.
2112 N.W. BROAD ST.
MURFREESBORO, TN 37129
615.893.4084

LANDSCAPE ARCHITECT:
RAGAN SMITH
100 E. VINE ST., STE 200
MURFREESBORO, TN 37130
615.546.6050

STRUCTURAL ENGINEER:
HAINES STRUCTURAL GROUP
800 S. GAY ST., STE 1750
KNOXVILLE TN, 37929
865.329.9920

MECHANICAL & PLUMBING ENGINEER:
FACILITY SYSTEMS CONSULTANTS
713 S. CENTRAL ST., STE 101
KNOXVILLE TN, 37902
865.246.0164

ELECTRICAL ENGINEER:
FACILITY SYSTEMS CONSULTANTS
713 S. CENTRAL ST., STE 101
KNOXVILLE TN, 37902
865.246.0164

Project Information:

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MHA Parkside Housing
425 N.MAPLE ST,
MURFREESBORO, TN 37130

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Sheet Description:

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DETAILS

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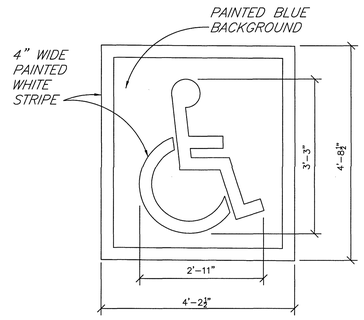

HANDICAP SYMBOL DETAIL 18A
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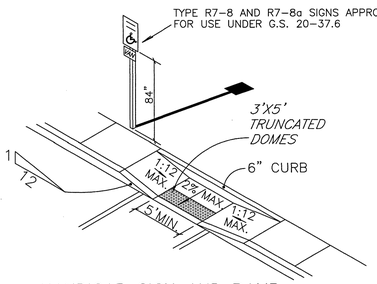

HANDICAP SIGN AND RAMP DETAIL 18
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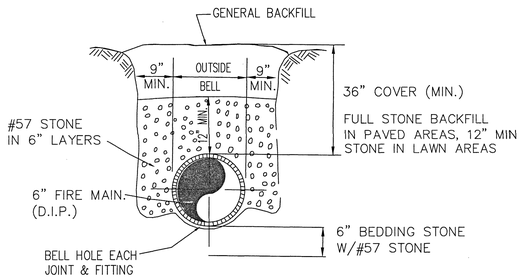

FIRE LINE TRENCH DETAIL 22
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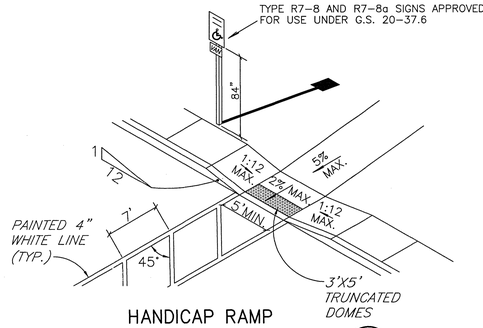

HANDICAP RAMP DETAIL 19
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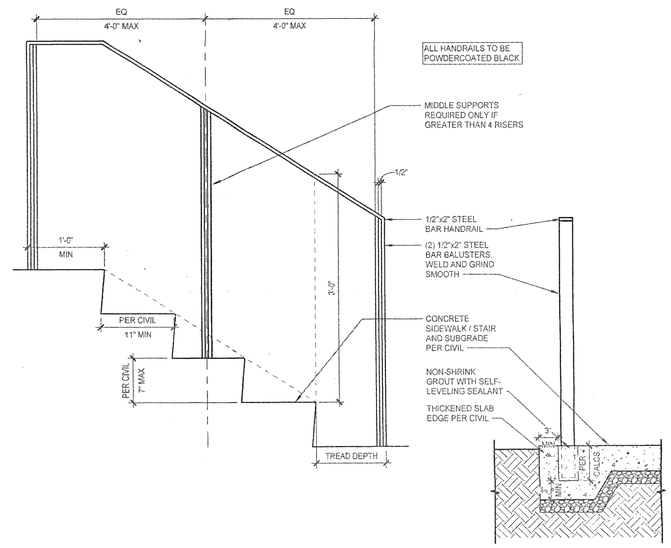

SITE HANDRAILS DETAIL 16
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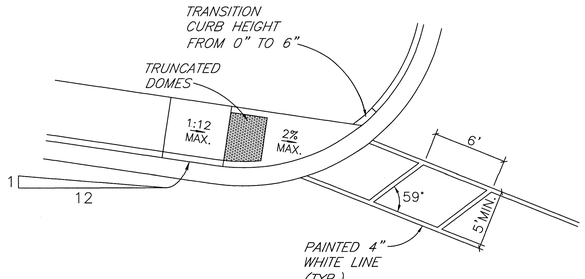

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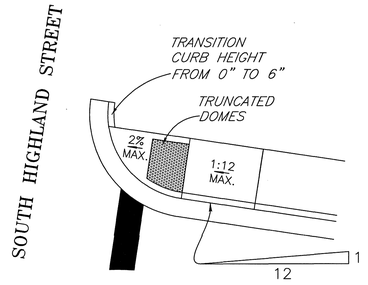

HANDICAP RAMP-S. HIGHLAND ST. DETAIL 21
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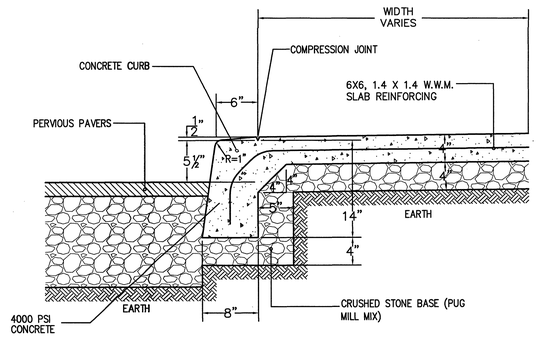

TURNDOWN SIDEWALK DETAIL 17
SCALE: NOT TO SCALE

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McCarty Holsaple McCarty, Inc.
550 W. Main St., Suite 300
Knoxville, TN 37902
t 865.544.2000
www.mhminc.com

Consultants:

CIVIL ENGINEER:
HUDDLESTON-STEELE ENGINEERING INC.
2112 N.W. BROAD ST.
MURFREESBORO, TN 37129
615.893.4084

LANDSCAPE ARCHITECT:
RAGAN SMITH
100 E. VINE ST., STE 200
MURFREESBORO, TN 37130
615.546.6050

STRUCTURAL ENGINEER:
HAINES STRUCTURAL GROUP
800 S. GAY ST., STE 1750
KNOXVILLE TN, 37929
865.329.9920

MECHANICAL & PLUMBING ENGINEER:
FACILITY SYSTEMS CONSULTANTS
713 S. CENTRAL ST., STE 101
KNOXVILLE TN, 37902
865.246.0164

ELECTRICAL ENGINEER:
FACILITY SYSTEMS CONSULTANTS
713 S. CENTRAL ST., STE 101
KNOXVILLE TN, 37902
865.246.0164

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DETAILS

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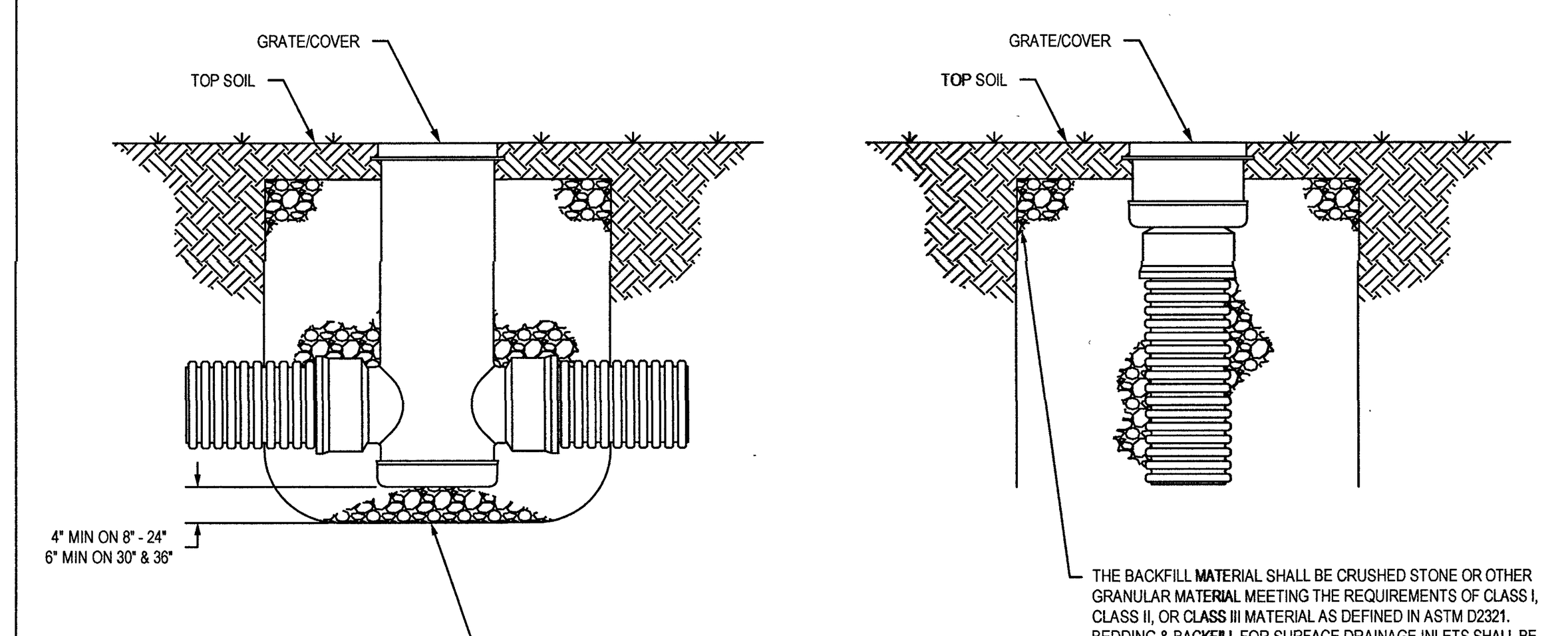
SURVEYING : 893 – 4084, FAX: 893 – 0080

23 NON TRAFFIC INSTALLATION



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24 0899CGS

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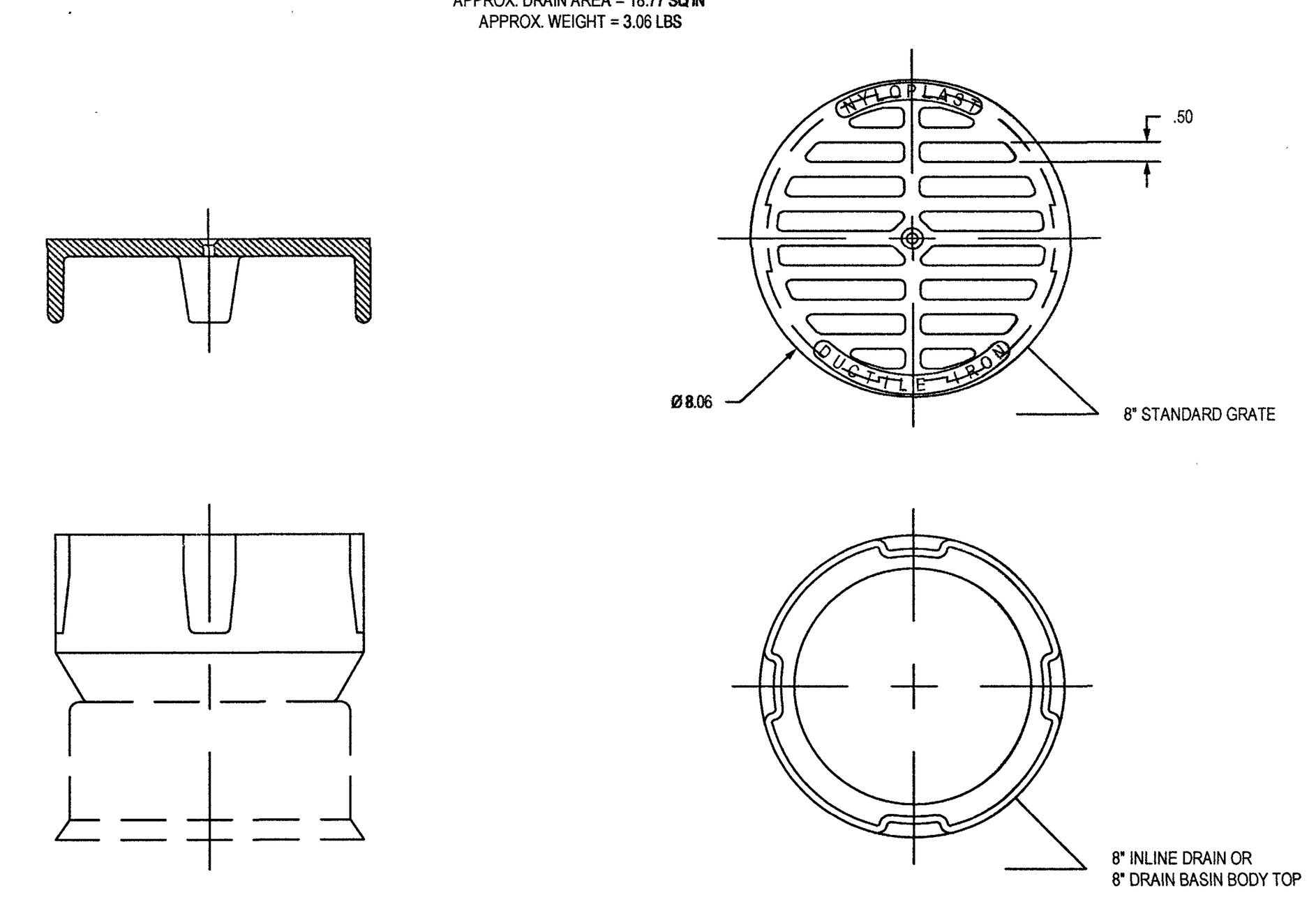
APPROX. WEIGHT = 3.00 LBS



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DIMENSIONS ARE IN INCHES
GRATE HAS LIGHT DUTY RATING
QUALITY: MATERIALS SHALL CONFORM TO ASTM A536 GRADE 70-50-05
PAINT: CASTINGS ARE FURNISHED WITH A BLACK PAINT
SIZE OF OPENING MEETS REQUIREMENTS OF AMERICAN DISABILITY ACT AS STATED IN FEDERAL REGISTER PART III, DEPARTMENT OF JUSTICE, 28 CFR PART 36.
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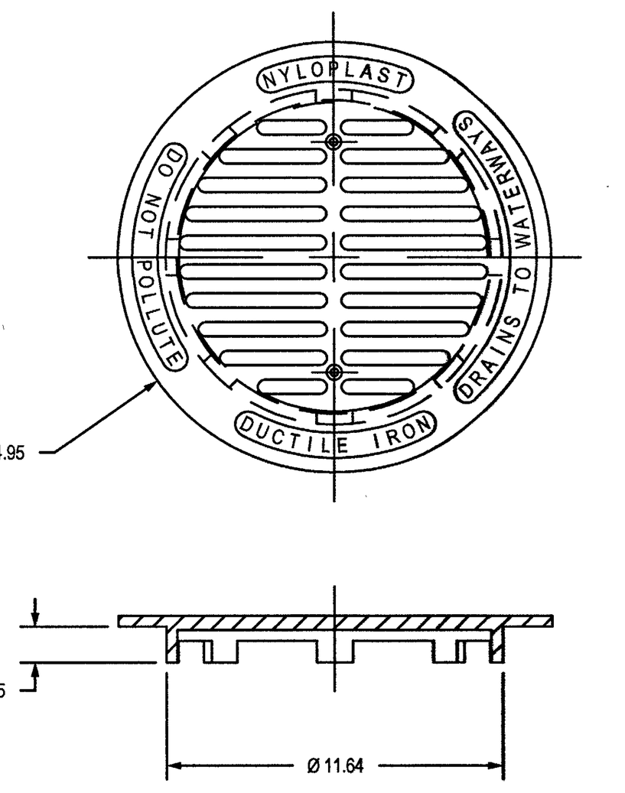
APPROX. WEIGHT = 15 LBS



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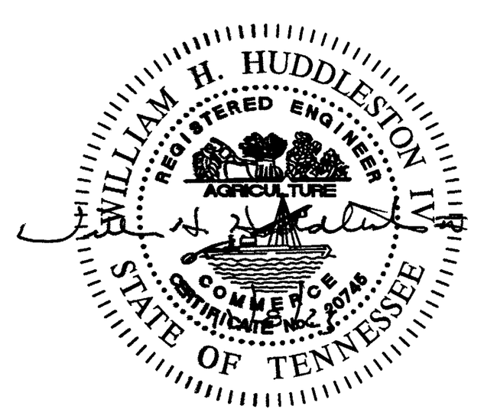

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550 W. Main St., Suite 300
Knoxville, TN 37902
t 865.544.2000
www.mhminc.com

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800 S. GAY ST., STE 1750
KNOXVILLE TN, 37929
865.329.9920

MECHANICAL & PLUMBING ENGINEER:
FACILITY SYSTEMS CONSULTANTS
713 S. CENTRAL ST., STE 101
KNOXVILLE TN, 37902
865.246.0164

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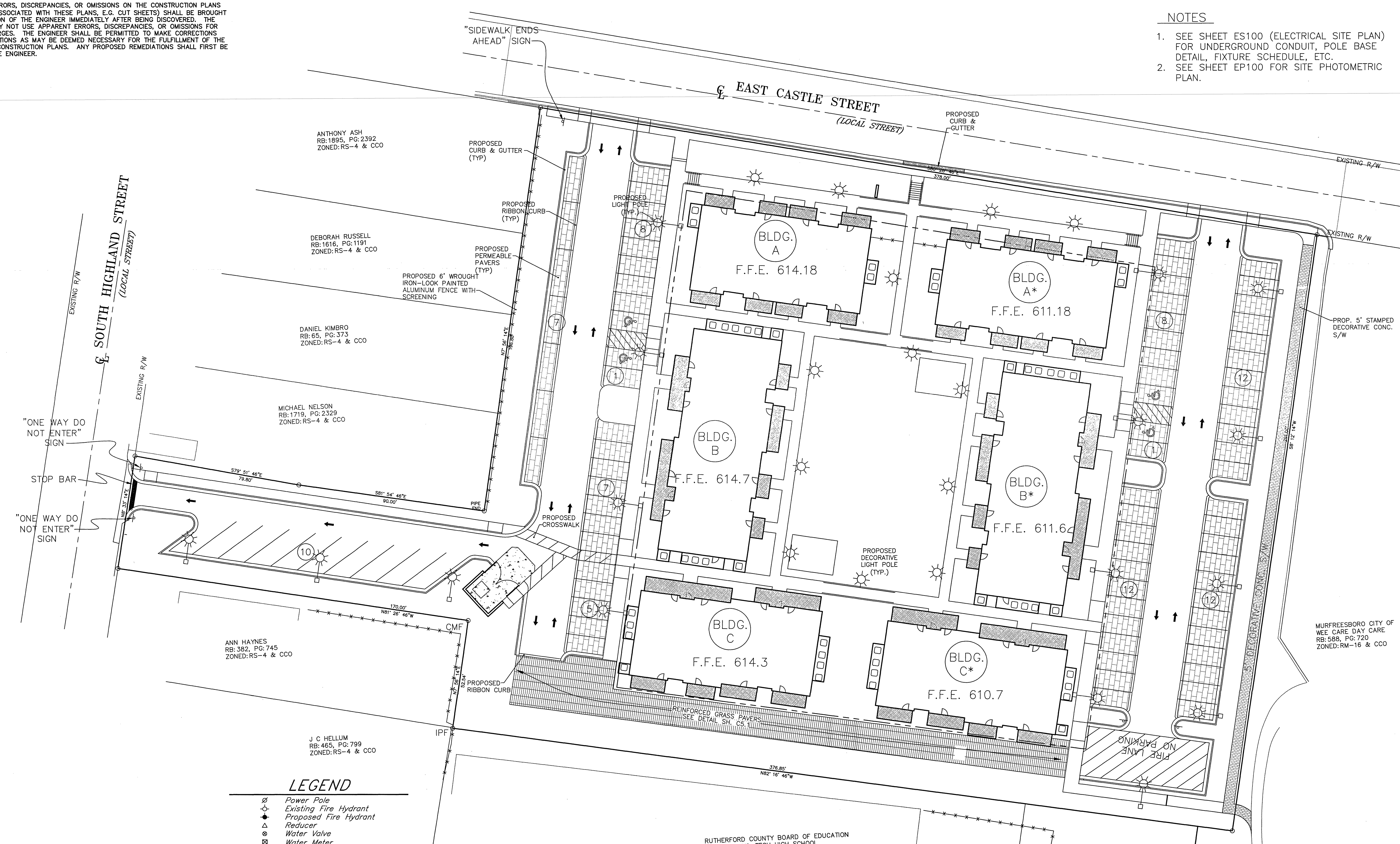
NOTES

1. SEE SHEET ES100 (ELECTRICAL SITE PLAN) FOR UNDERGROUND CONDUIT, POLE BASE DETAIL, FIXTURE SCHEDULE, ETC.
2. SEE SHEET EP100 FOR SITE PHOTOMETRIC PLAN.



LEGEND

Symbol	Description
Ø	Power Pole
	Existing Fire Hydrant
	Proposed Fire Hydrant
△	Reducer
⊗	Water Valve
⊠	Water Meter
▲	Concrete Thrust Block
——W——	Existing Water Line
——W——	Proposed Water Line
——S——	Existing Sanitary Sewer Line
——S——	Proposed Sanitary Sewer Line
——SD——	Existing Stormwater
CB	Existing Catch Basin
Ⓢ	Existing Manhole
●	Proposed Manhole
CD	Sewer Line Check Dam
——00——	Existing Contours
——00——	Proposed Contours
00.0	Existing Spot Elevations
00.0	Proposed Spot Elevations
——SF——	Siltation Fence (to be installed before grading and left in place until a good stand of grass is established over all disturbed areas.)
SF INIT. MEAS.	Siltation Fence (Initial Measure)
SF ONCE CONST.	Siltation Fence (Once Constructed)
	Turf Reinforcement Mat
	Stone Check Dam

LEGEND

Symbol	Description
O IPS	IRON PIN SET (1/2" REBAR WITH STAMPED H-S ENGR)
O IPF	IRON PIN FND.
□	CONC. MONUMENT FOUND
—x—x—	FENCE

NOTES

1. In Tennessee, it is a requirement per "The Underground Utility Damage Prevention Act" that anyone who engages in Excavation must notify all known underground utility owners, no less than three nor more than ten working days of their intent to excavate. A list of these utilities may be obtained from the County Register of Deeds. Those utilities that participate in the Tennessee One Call system can be notified by calling toll free 1-800-351-1111.
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OWNER: MURFREESBORO HOUSING AUTHORITY
ADDRESS: 415 N. MAPLE STREET
MURFREESBORO, TN. 37130

TAX MAP: 102D, GROUP "J", PARCEL: 13.00

MAP NUMBER: 47149C0260H
DATED: JANUARY 5, 2007 ZONE: X

NOTE: THIS PARCEL IS SUBJECT TO ALL EASEMENTS AS SHOWN AND ANY OTHER EASEMENTS AND/OR RESTRICTIONS EITHER RECORDED OR BY PRESCRIPTION THAT A COMPLETE TITLE SEARCH MAY REVEAL.

N GRID E S W

20' 0 20'

P-1.0 LIGHTING PLAN
1" = 20'-0"

WILLIAM H. HUDDLESTON
STATE OF TENNESSEE

HUDDLESTON-STEELE ENGINEERING, INC.
2115 N.W. BROAD STREET, MURFREESBORO, TN 37129
SURVEYING : 893 - 4084, FAX: 893 - 0080

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Consultants:

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LANDSCAPE ARCHITECT:
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615.546.6050

STRUCTURAL ENGINEER:
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865.329.9920

MECHANICAL & PLUMBING ENGINEER:
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ELECTRICAL ENGINEER:
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Project Information:

21026

MHA Parkside Housing
425 N.MAPLE ST,
MURFREESBORO, TN 37130

Consultant:

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Issue Date:	04.04.2022
PIC	B. HUDDLESTON
PM	B. HUDDLESTON
PA	J. LEONARD
Drawn By:	J. LEONARD
Checked By:	

Sheet Description:

P-1.0

LIGHTING PLAN

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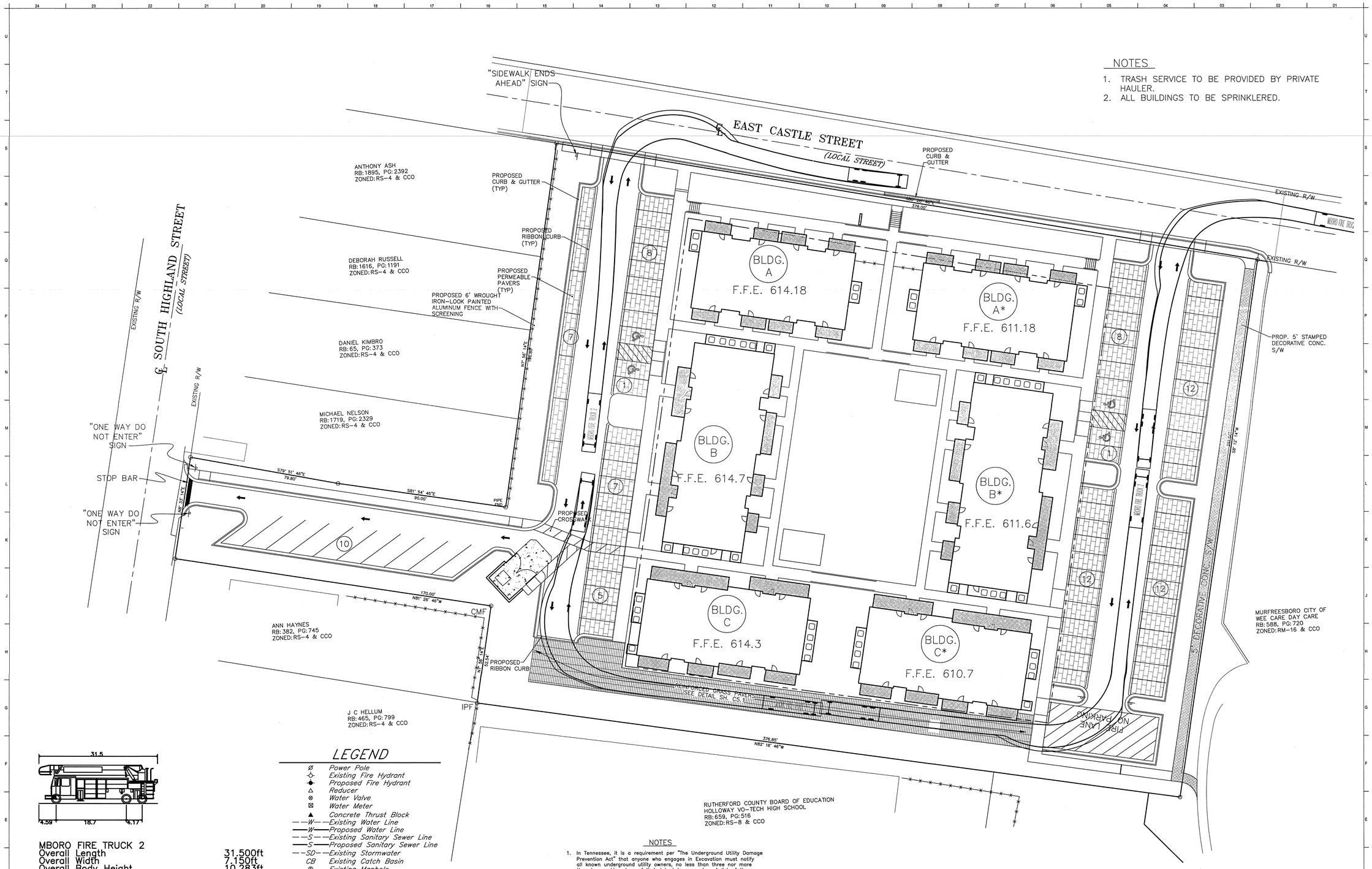

NOTES

1. TRASH SERVICE TO BE PROVIDED BY PRIVATE HAULER.
2. ALL BUILDINGS TO BE SPRINKLERED.

MBORO FIRE TRUCK 2	
Overall Length	31.500ft
Overall Width	7.150ft
Overall Body Height	10.283ft
Min Body Ground Clearance	0.713ft
Track Width	7.150ft
Lock-to-lock time	6.00s
Max Steering Angle (Virtual)	33.10°

LEGEND

- Power Pole
- Existing Fire Hydrant
- Proposed Fire Hydrant
- Reducer
- Water Valve
- Water Meter
- Concrete Thrust Block
- —W— Existing Water Line
- —W— Proposed Water Line
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- SF INIT. MEAS. Siltation Fence (Initial Measure)
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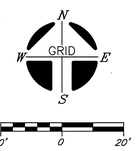
- Turf Reinforcement Mat
- Stone Check Dam

LEGEND

- IPS IRON PIN SET (1/2" REBAR WITH STAMPED H-S ENGR)
- IPF IRON PIN END.
- CONC. MONUMENT FOUND
- FENCE



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MAP NUMBER: 47149C0260H
DATED: JANUARY 5, 2007 ZONE: X

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T-1.0 TRUCK TURNING TEMPLATE
1" = 20'-0"

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Project Information:

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Consultant:

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Issue Date:	04.04.2022
PIC	B. HUDDLESTON
PM	B. HUDDLESTON
PA	J. LEONARD
Drawn By:	J. LEONARD
Checked By:	

Sheet Description:

T-1.0

TRUCK TURNING TEMPLATE

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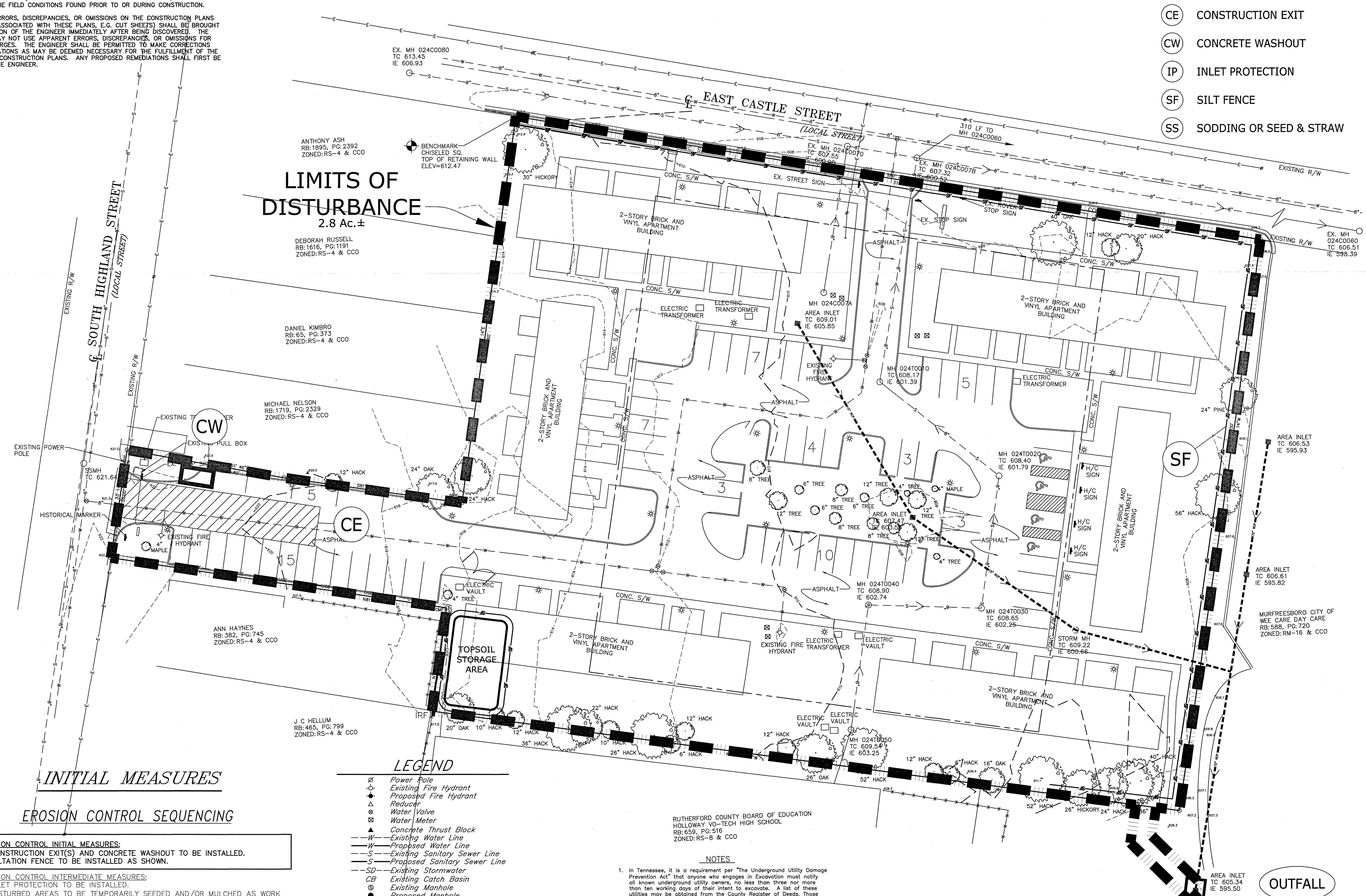
EPSC LEGEND

- (CE) CONSTRUCTION EXIT
- (CW) CONCRETE WASHOUT
- (IP) INLET PROTECTION
- (SF) SILT FENCE
- (SS) SODDING OR SEED & STRAW



OUTFALL

2.9% SLOPE, 2.8 ACRE, VOL.=0.72 AC.-FT.

NOTE
THE MEASURES IN THIS EPSC PLAN HAVE BEEN DESIGNED TO CONTROL THE RUNOFF AND RAINFALL FROM A 5-YEAR, 24 HOUR STORM.

INITIAL MEASURES

EROSION CONTROL SEQUENCING

EROSION CONTROL INITIAL MEASURES:
1. CONSTRUCTION EXIT(S) AND CONCRETE WASHOUT TO BE INSTALLED.
2. SILTATION FENCE TO BE INSTALLED AS SHOWN.

EROSION CONTROL INTERMEDIATE MEASURES:
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1. ALL DISTURBED AREAS TO BE SODDED OR SEEDED & MULCHED UPON COMPLETION.
2. CONSTRUCTION EXIT(S), CONCRETE WASHOUT, SILT FENCE, INLET PROTECTION, ETC., TO BE REMOVED UPON COMPLETION OF PROJECT.

LEGEND

Symbol	Description
Ø	*Power Pole*
-◇-	*Existing Fire Hydrant*
-◆-	*Proposed Fire Hydrant*
△	*Reducer*
⊗	*Water Valve*
⊠	*Water Meter*
▲	*Concrete Thrust Block*
---W---	*Existing Water Line*
—W—	*Proposed Water Line*
---S---	*Existing Sanitary Sewer Line*
—S—	*Proposed Sanitary Sewer Line*
--SD--	*Existing Stormwater*
CB	*Existing Catch Basin*
Ⓢ	*Existing Manhole*
●	*Proposed Manhole*
CD	*Sewer Line Check Dam*
--00--	*Existing Contours*
—(00)—	*Proposed Contours*
00.0	*Existing Spot Elevations*
00.0	*Proposed Spot Elevations*
—SF—	*Siltation Fence (to be installed before grading and left in place until a good stand of grass is established over all disturbed areas.)*
—SF— INIT. MEAS.	*Siltation Fence (Initial Measure)*
—SF— ONCE CONST.	*Siltation Fence (Once Constructed)*
▦	*Turf Reinforcement Mat*
	Stone Check Dam

LEGEND

Symbol	Description
O IPS	*IRON PIN SET (1/2" REBAR WITH STAMPED H-S ENGR)*
O IPF	*IRON PIN FND.*
□	*CONC. MONUMENT FOUND*
-x-x-	*FENCE*

N / W / E / S GRID

20' 0 20'

RUTHERFORD COUNTY BOARD OF EDUCATION
HOLLOWAY VO-TECH HIGH SCHOOL
RB:659, PG:516
ZONED:RS-8 & CCO

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TAX MAP: 102D, GROUP "J", PARCEL: 13.00

MAP NUMBER: 47149C0260H
DATED: JANUARY 5, 2007 ZONE: X

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WILLIAM H. HUDDLESTON IV — REGISTERED ENGINEER — STATE OF TENNESSEE
WILLIAM H. HUDDLESTON IV — REGISTERED LAND SURVEYOR — TENNESSEE No. 1630

HUDDLESTON-STEELE ENGINEERING, INC.
2115 N.W. BROAD STREET, MURFREESBORO, TN 37129
SURVEYING : 893 - 4084, FAX: 893 - 0080

EPSC-1.0 EROSION PREVENTION & SEDIMENT CONTROL PLAN
1" = 20'-0"

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Project Information:

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Drawn By:	J. LEONARD
Checked By:	

Sheet Description:

EPSC-1.0

EROSION PREVENTION & SEDIMENT CONTROL PLAN INITIAL MEASURES

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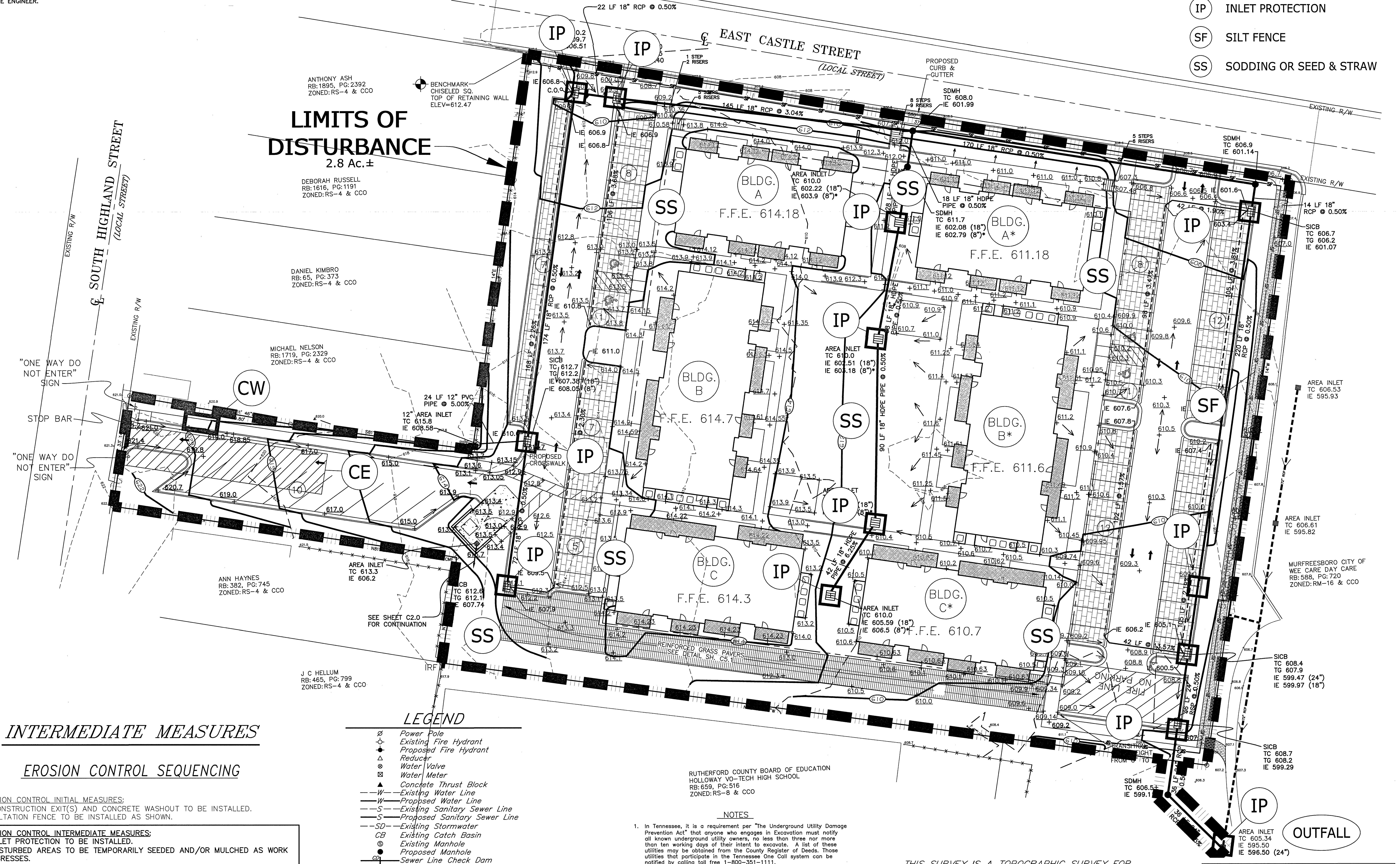

INTERMEDIATE MEASURES

EROSION CONTROL SEQUENCING

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LEGEND

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- Existing Fire Hydrant
- Proposed Fire Hydrant
- Reducer
- Water Valve
- Water Meter
- Concrete Thrust Block
- —W— Existing Water Line
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- —S— Existing Sanitary Sewer Line
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- IPS IRON PIN SET (1/2" REBAR WITH STAMPED H-S ENGR)
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Drawn By:	J. LEONARD
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Sheet Description:

EPSC-1.1

EROSION PREVENTION & SEDIMENT CONTROL PLAN
INTERMEDIATE MEASURES

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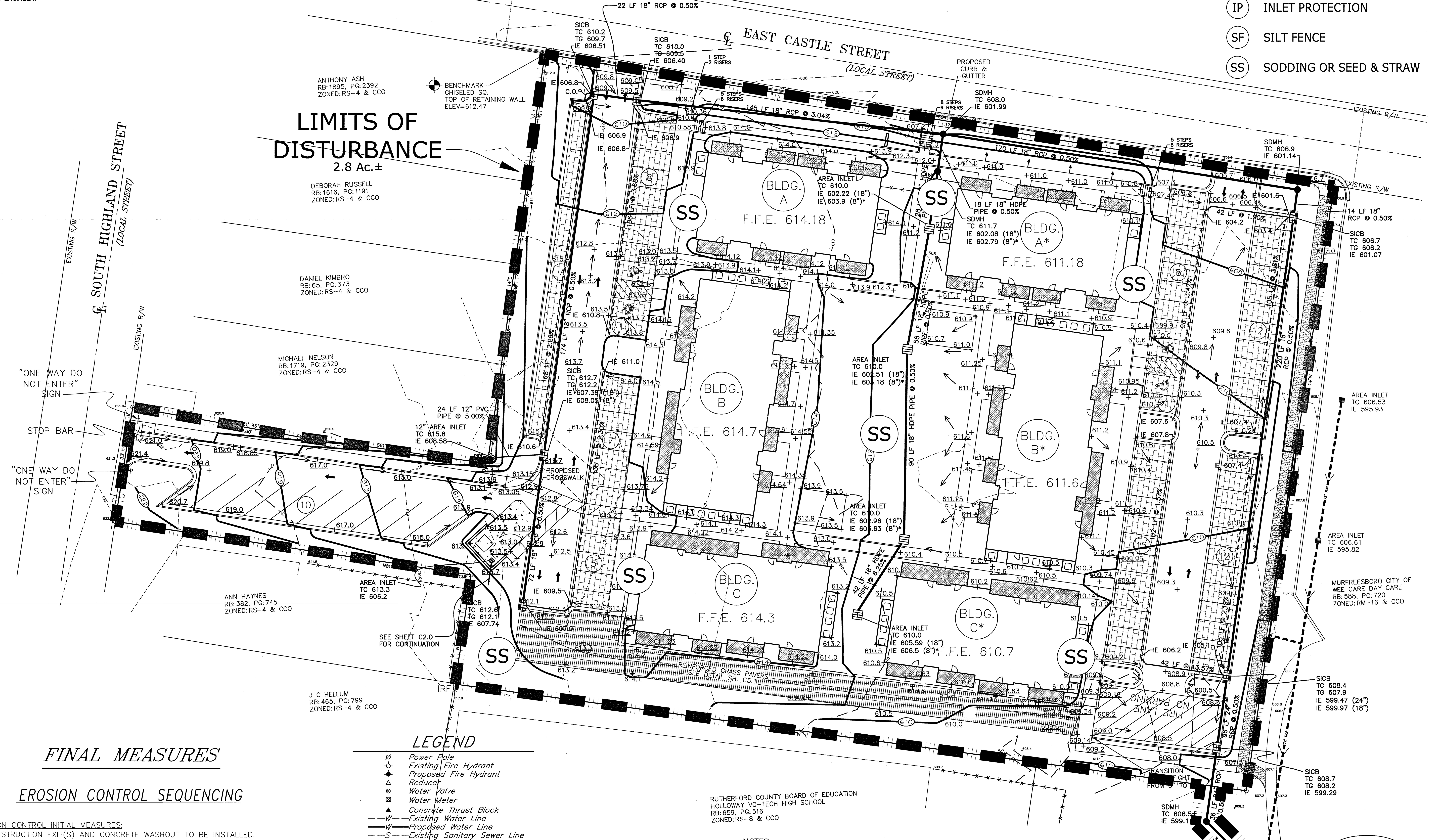
- (CW) CONCRETE WASHOUT
- (IP) INLET PROTECTION
- (SF) SILT FENCE
- (SS) SODDING OR SEED & STRAW



FINAL MEASURES

EROSION CONTROL SEQUENCING

EROSION CONTROL INITIAL MEASURES:
1. CONSTRUCTION EXIT(S) AND CONCRETE WASHOUT TO BE INSTALLED.
2. SILTATION FENCE TO BE INSTALLED AS SHOWN.

EROSION CONTROL INTERMEDIATE MEASURES:
1. INLET PROTECTION TO BE INSTALLED.
2. DISTURBED AREAS TO BE TEMPORARILY SEEDED AND/OR MULCHED AS WORK PROGRESSES.

EROSION CONTROL FINAL MEASURES
1. ALL DISTURBED AREAS TO BE SODDED OR SEEDED & MULCHED UPON COMPLETION.
2. CONSTRUCTION EXIT(S), CONCRETE WASHOUT, SILT FENCE, INLET PROTECTION, ETC., TO BE REMOVED UPON COMPLETION OF PROJECT.

LEGEND

- Power Pole
- Existing Fire Hydrant
- Proposed Fire Hydrant
- Reducer
- Water Valve
- Water Meter
- Concrete Thrust Block
- —W— Existing Water Line
- —W— Proposed Water Line
- —S— Existing Sanitary Sewer Line
- —S— Proposed Sanitary Sewer Line
- —SD— Existing Stormwater
- CB Existing Catch Basin
- Existing Manhole
- Proposed Manhole
- Sewer Line Check Dam
- —00— Existing Contours
- —00— Proposed Contours
- 00.0 Existing Spot Elevations
- 00.0 Proposed Spot Elevations
- —SF— Siltation Fence (to be installed before grading and left in place until a good stand of grass is established over all disturbed areas.)
- INIT. MEAS. Siltation Fence (Initial Measure)
- ONCE CONST. Siltation Fence (Once Constructed)
- Turf Reinforcement Mat
- Stone Check Dam

LEGEND
- IPS IRON PIN SET (1/2" REBAR WITH STAMPED H-S ENGR)
- IPF IRON PIN FND.
- CONC. MONUMENT FOUND
- FENCE

NOTES

1. In Tennessee, it is a requirement per "The Underground Utility Damage Prevention Act" that anyone who engages in Excavation must notify all known underground utility owners, no less than three nor more than ten working days of their intent to excavate. A list of these utilities may be obtained from the County Register of Deeds. Those utilities that participate in the Tennessee One Call system can be notified by calling toll free 1-800-351-1111.
2. Underground utilities shown were located using available aboveground evidence, as well as from information obtained from the respective utility companies. The existence or nonexistence of the utilities shown and any other utilities which may be present on this site or adjacent sites should be confirmed with the utility owner prior to commencing any work.
3. This property may be subject to additional easements, and/or restrictions, by record or prescription, that a complete title search may reveal.
4. All signage, including flags and flagpoles, is subject to review by the Building & Codes Department. All signage must conform to their requirements, and will require separate sign permits.

OWNER: MURFREESBORO HOUSING AUTHORITY
ADDRESS: 415 N. MAPLE STREET MURFREESBORO, TN. 37130

TAX MAP: 102D, GROUP "J", PARCEL: 13.00

MAP NUMBER: 47149C0260H
DATED: JANUARY 5, 2007 ZONE: X

NOTE: THIS PARCEL IS SUBJECT TO ALL EASEMENTS AS SHOWN AND ANY OTHER EASEMENTS AND/OR RESTRICTIONS EITHER RECORDED OR BY PRESCRIPTION THAT A COMPLETE TITLE SEARCH MAY REVEAL.

THIS SURVEY IS A TOPOGRAPHIC SURVEY FOR INFORMATION ONLY AND IS NOT A GENERAL PROPERTY SURVEY AS DEFINED UNDER RULE 0820-3-.07.

OUTFALL
2.9% SLOPE, 2.8 ACRE, VOL.=0.72 AC.-FT.

NOTE
THE MEASURES IN THIS EPSC PLAN HAVE BEEN DESIGNED TO CONTROL THE RUNOFF AND RAINFALL FROM A 5-YEAR, 24 HOUR STORM.

HUDDLESTON-STEELE ENGINEERING, INC.
2115 N.W. BROAD STREET, MURFREESBORO, TN 37129
SURVEYING : 893 - 4084, FAX: 893 - 0080

EPSC-1.2 EROSION PREVENTION & SEDIMENT CONTROL PLAN
1" = 20'-0"

MHM

McCarty Holsaple McCarty, Inc.
550 W. Main St., Suite 300
Knoxville, TN 37902
t 865.544.2000
www.mhminc.com

Consultants:

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2112 N.W. BROAD ST.
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LANDSCAPE ARCHITECT:
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MURFREESBORO, TN 37130
615.546.6050

STRUCTURAL ENGINEER:
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KNOXVILLE TN, 37902
865.246.0164

ELECTRICAL ENGINEER:
FACILITY SYSTEMS CONSULTANTS
713 S. CENTRAL ST., STE 101
KNOXVILLE TN, 37902
865.246.0164

Project Information:

21026

MHA Parkside Housing
425 N.MAPLE ST,
MURFREESBORO, TN 37130

Consultant:

#	ISSUE	DATE
1	INTENTIONALLY LEFT BLANK	–
2	CITY STAFF COMMENTS	12-1-21
3	INTENTIONALLY LEFT BLANK	–
4	ARCHITECT'S COMMENTS	1-11-22
4A	ARCHITECTURAL ISSUE	4-4-22
5	CITY STAFF COMMENTS	5-26-22
6	REVISION 01-CITY COMMENTS RESPONSE	8-23-22
7	QA/QC REVISIONS	10-20-23

Issue Date:	04.04.2022
PIC	B. HUDDLESTON
PM	B. HUDDLESTON
PA	J. LEONARD
Drawn By:	J. LEONARD
Checked By:	

Sheet Description:

EPSC-1.2

EROSION PREVENTION & SEDIMENT CONTROL PLAN FINAL MEASURES

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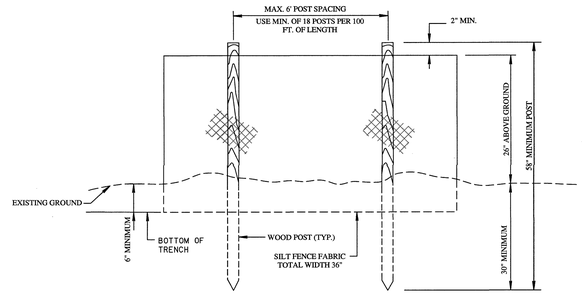
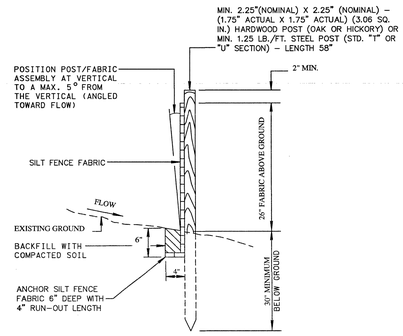
1. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER OF ANY DISCREPANCIES BETWEEN THESE PLANS (OR ANYTHING ASSOCIATED WITH THESE PLANS, E.G. CUT SHEETS) AND THE FIELD CONDITIONS FOUND PRIOR TO OR DURING CONSTRUCTION.

2. APPARENT ERRORS, DISCREPANCIES, OR OMISSIONS ON THE CONSTRUCTION PLANS (OR ANYTHING ASSOCIATED WITH THESE PLANS, E.G. CUT SHEETS) SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER IMMEDIATELY AFTER BEING DISCOVERED. THE CONTRACTOR MAY NOT USE APPARENT ERRORS, DISCREPANCIES, OR OMISSIONS FOR ADDITIONAL CHARGES. THE ENGINEER SHALL BE PERMITTED TO MAKE CORRECTIONS AND INTERPRETATIONS AS MAY BE DEEMED NECESSARY FOR THE FULFILLMENT OF THE INTENT OF THE CONSTRUCTION PLANS. ANY PROPOSED REMEDIATIONS SHALL FIRST BE REVIEWED BY THE ENGINEER.



ELEVATION VIEW



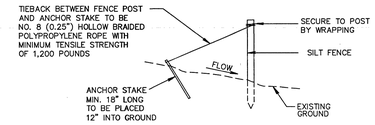
SECTION VIEW

NOTE:
PAYMENT SHALL INCLUDE ALL MATERIALS AND LABOR, ITEM NO. 209-08.03

FOR ADDITIONAL DETAILS AND NOTES SEE TDOT STD EC-STR-3B AND EC-STR-3E

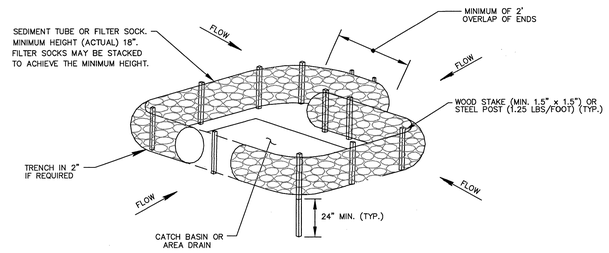
SILT FENCE (WITHOUT BACKING) DETAIL

(NOT TO SCALE)



TYPICAL SILT FENCE TIEBACK
FOR STEEL POSTS OR WOOD POSTS

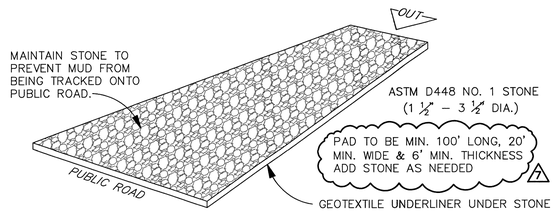
(WHEN REQUIRED BY THE ENGINEER OR NOTED IN THE PLANS. COST TO BE INCLUDED IN THE ITEMS FOR SILT FENCE)



NOTE:
PAYMENT SHALL INCLUDE ALL MATERIALS AND LABOR, ITEM NO. 209-40.33
FOR ADDITIONAL DETAILS AND NOTES SEE TDOT STD EC-STR-19

CATCH BASIN PROTECTION (TYPE D)

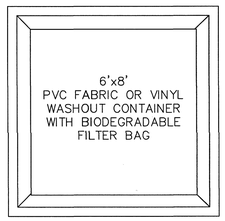
(NOT TO SCALE)



TEMPORARY CONSTRUCTION EXIT

(NOT TO SCALE)

CONCRETE WASHOUT SIGN



CONCRETE WASHOUT AREA

(NOT TO SCALE)

EPSC-2.0 EROSION PREVENTION & SEDIMENT CONTROL DETAILS
SCALE AS SHOWN

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McCarty Holsaple McCarty, Inc.
550 W. Main St., Suite 300
Knoxville, TN 37902
t 865.544.2000
www.mhminc.com

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PM	B. HUDDLESTON
PA	J. LEONARD
Drawn By:	J. LEONARD
Checked By:	

Sheet Description:

EPSC-2.0

EROSION PREVENTION & SEDIMENT CONTROL DETAILS

HUDDLESTON-STEELE ENGINEERING, INC.
2115 N.W. BROAD STREET, MURFREESBORO, TN 37129
SURVEYING : 893 – 4084, FAX: 893 – 0080

LANDSCAPE SITE DATA

PROPERTY INFORMATION:

STREET ADDRESS:	512-520 E CASTLE ST
SITE ACREAGE:	2.78 ± AC (121,116 SF)
TAX MAP/PARCEL:	102D / 01300
ZONING CLASSIFICATION:	PUD (PLANNED UNIT DISTRICT)

TOTAL VEHICULAR USE AREA (32,205 ± SF)

REQUIRED LANDSCAPING:	0.74 ACRES (N/A- LESS THAN 2 AC)

OPEN SPACE

REQUIRED SF:	20% (24,223± SF)
PROVIDED SF:	39% (47,281± SF)

FORMAL OPEN SPACE

REQUIRED SF:	5% (6,056± SF)
PROVIDED SF:	7% (8,728± SF)

PLANTING YARDS:

FRONT: STREET FRONTAGE (378± LF)

PLANTING REQUIRED: (1 SHADE TREE per 50 LF)	8 SHADE
PROVIDED PLANTING:	8 TREES

SIDE: EASTERN BOUNDARY (234± LF) TYPE-C BUFFER

PLANTING REQUIRED: (10' PLANTING YARD) (2 EVERGREEN TREE 10' O.C.)	49 TREES
PLANTING PROVIDED:	49 TREES

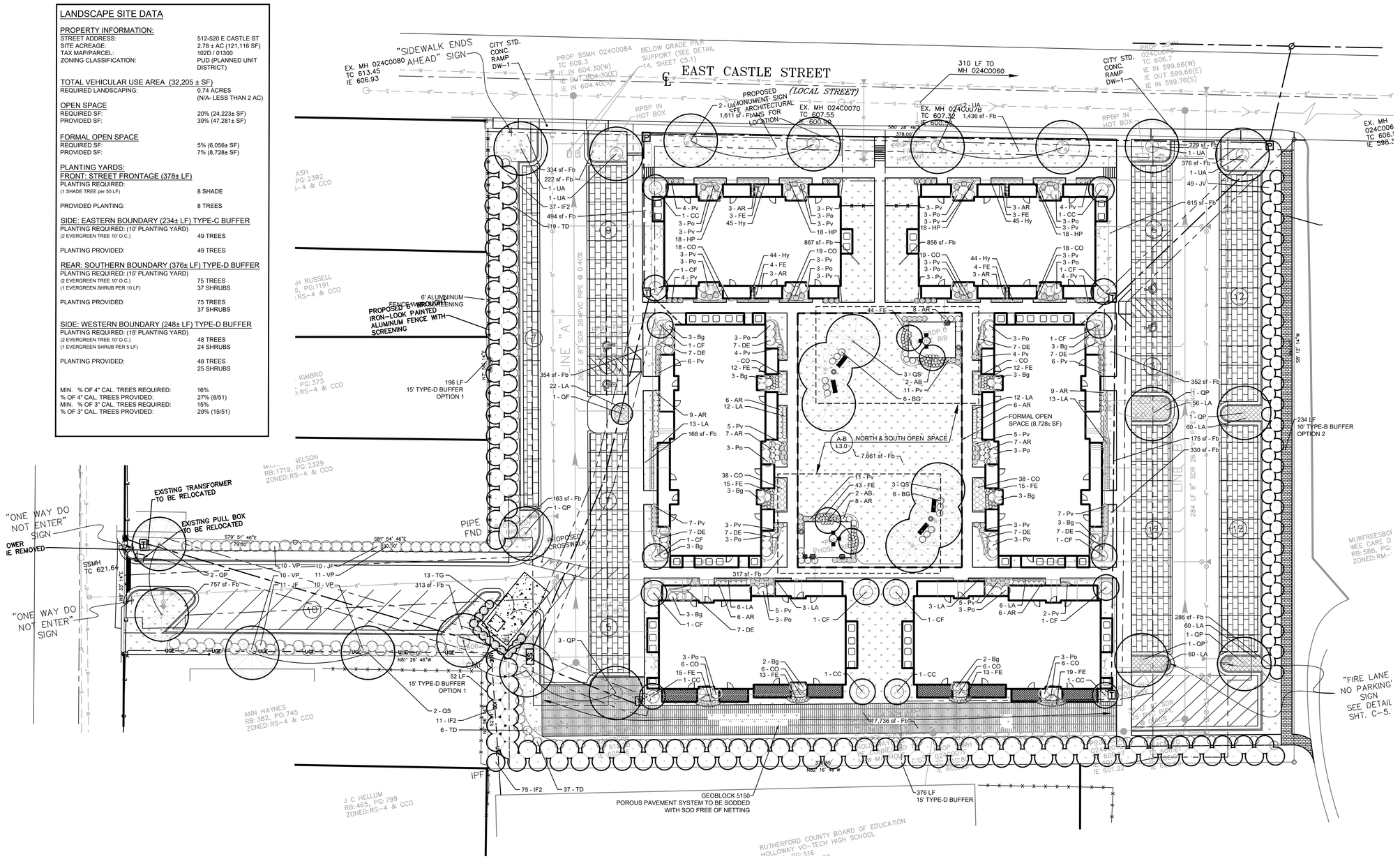
REAR: SOUTHERN BOUNDARY (376± LF) TYPE-D BUFFER

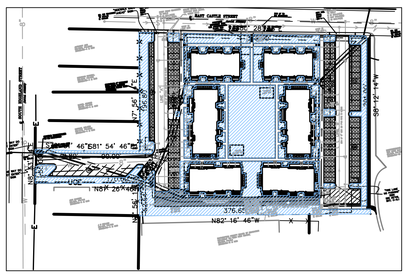
PLANTING REQUIRED: (15' PLANTING YARD) (2 EVERGREEN TREE 10' O.C.)	75 TREES
(1 EVERGREEN SHRUB PER 10 LF)	37 SHRUBS
PLANTING PROVIDED:	75 TREES 37 SHRUBS

SIDE: WESTERN BOUNDARY (248± LF) TYPE-D BUFFER

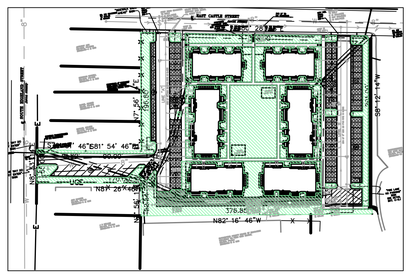
PLANTING REQUIRED: (15' PLANTING YARD) (2 EVERGREEN TREE 10' O.C.)	48 TREES
(1 EVERGREEN SHRUB PER 5 LF)	24 SHRUBS
PLANTING PROVIDED:	48 TREES 25 SHRUBS

MIN. % OF 4" CAL. TREES REQUIRED:	16%
% OF 4" CAL. TREES PROVIDED:	27% (8/51)
MIN. % OF 3" CAL. TREES REQUIRED:	15%
% OF 3" CAL. TREES PROVIDED:	29% (15/51)





IRRIGATION AREA DIAGRAM
SCALE: 1" = 100'



OPEN SPACE AREA DIAGRAM
SCALE: 1" = 100'

LANDSCAPE NOTES

1. ALL DISTURBED AREAS NOT OTHERWISE PLANTED SHALL BE SEEDED PER NOTES ON SHEET L2.0
2. PARKING SCREENING SHRUBS SHALL BE 24" HT AT TIME OF INSTALL AND 36" HT AT MATURITY PER CITY OF MURFREESBORO'S ORDINANCE.
3. ADDITIONAL PLANTING MATERIAL MAY BE REQUIRED PER TYPICAL SCREENING FOR ABOVE GROUND UTILITIES DETAIL ON SHEET L2.0. THIS MATERIAL WOULD BE IN ADDITION TO MATERIAL SHOWN IN THE PLANT SCHEDULE.
4. ALL LANDSCAPE TO RECEIVE IRRIGATION VIA UNDERGROUND SYSTEM. IRRIGATION PLAN SHALL BE SUBMITTED TO THE CITY OF MURFREESBORO DEVELOPMENT SERVICES PRIOR TO OBTAINING BUILDING PERMIT.

MINOR DEVIATION NOTE

1. A MINOR DEVIATION WAS REQUESTED TO CHANGE THE 15-FOOT LANDSCAPE BUFFER REQUIREMENT ALONG THE EASTERLY BOUNDARY TO A 10-FOOT PERIMTER LANDSCAPE BUFFER PLUS A DECORATIVE 5-FOOT SIDEWALK ALONG THE PROPERTY LINE. THIS MINOR DEVIATION WAS APPROVED BY THE CITY OF MURFREESBORO'S PLANNING DIRECTOR ON JANUARY 25, 2022

811 Know what's below. Call before you dig.

0 20 40

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MHM

McCarty Holsaple McCarty, Inc.
550 W. Main St., Suite 300
Knoxville, TN 37902
t 865.544.2000
www.mhminc.com

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Project Information:

21026

MHA Parkside Housing
520 EAST CASTLE STREET,
MURFREESBORO, TN 37130

Seal:

MILTON H. HAMILTON JR. REGISTERED LANDSCAPE ARCHITECT STATE OF TENNESSEE NO. 329

Consultant:

RaganSmith

#	ISSUE	DATE

Issue Date:	12.23.2021
PIC	M. BUTLER
PM	M. BUTLER
PA	G. TAYLOR
Drawn By:	M. HAMILTON
Checked By:	M. HAMILTON

Sheet Description:

L1.0

LANDSCAPE PLAN

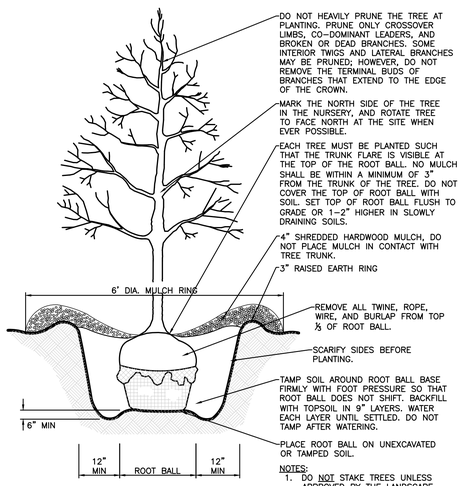
PLANT SCHEDULE

TREES	QTY	BOTANICAL NAME	COMMON NAME	TYPE	SIZE	HEIGHT	SPACING	REMARKS
AB	4	ACER BUERGERIANUM	TRIDENT MAPLE	CANOPY	2" CAL.	10–12' HT	AS SHOWN	5FT CLEAR TRUNK, SINGLE–STRAIGHT CENTRAL LEADER, EVENLY BRANCHED, FULL SYMMETRICAL CROWN, STREET TREE QUALITY, MATCHED.
CC	6	CERCIS CANADENSIS 'FOREST PANSY' TM	FOREST PANSY REDBUD	UNDERSTORY	2" CAL.	10–12' HT	AS SHOWN	4FT CLEAR TRUNK, FULL CANOPY.
CF	10	CORNUS FLORIDA	EASTERN DOGWOOD	UNDERSTORY	2" CAL.	8–10' HT	AS SHOWN	4FT CLEAR TRUNK, FULL CANOPY.
QP	10	QUERCUS PHELLOS	WILLOW OAK	CANOPY	3" CAL.	14–16' HT	AS SHOWN	7FT CLEAR TRUNK, SINGLE–STRAIGHT CENTRAL LEADER, EVENLY BRANCHED, FULL SYMMETRICAL CROWN, STREET TREE QUALITY, MATCHED.
QF	1	QUERCUS ROBUR 'FASTIGIATA'	PYRAMIDAL ENGLISH OAK	CANOPY	2.5" CAL.	12–14' HT	AS SHOWN	5FT CLEAR TRUNK, SINGLE–STRAIGHT CENTRAL LEADER, EVENLY BRANCHED, FULL CANOPY, SYMMETRICAL CROWN, MATCHED.
QS	8	QUERCUS SHUMARDII	SHUMARD RED OAK	CANOPY	2.5" CAL.	12–14' HT	AS SHOWN	5FT CLEAR TRUNK, SINGLE–STRAIGHT CENTRAL LEADER, EVENLY BRANCHED, FULL SYMMETRICAL CROWN, STREET TREE QUALITY, MATCHED.
UA	8	ULMUS PARVIFOLIA 'ALLEE'	ALLEE LACEBARK ELM	CANOPY	4" CAL.	16–18' HT	AS SHOWN	7FT CLEAR TRUNK, EVENLY BRANCHED, FULL SYMMETRICAL CROWN, STREET TREE QUALITY, MATCHED.

EVERGREEN TREES	QTY	BOTANICAL NAME	COMMON NAME	TYPE	SIZE	HEIGHT	SPACING	REMARKS
IF2	123	ILEX X ATTENUATA 'FOSTER NO. 2'	FOSTER NO. 2 HOLLY	EVERGREEN	––	6'–8' HT.	AS SHOWN	B&B, FULL TO BASE
JV	49	JUNIPERUS VIRGINIANA 'BURKII"	BURKII EASTERN RED CEDAR	EVERGREEN	––	6'–8' HT.	AS SHOWN	B&B, FULL TO BASE
TG	13	THUJA OCCIDENTALIS 'SMARAGD'	EMERALD GREEN ARBORVITAE	EVERGREEN	––	6'–8' HT.	AS SHOWN	B&B, FULL TO BASE

SHRUBS	QTY	BOTANICAL NAME	COMMON NAME	TYPE	SIZE/HT	SPREAD	SPACING	REMARKS
AR	78	ABELIA X 'ROSE CREEK'	ROSE CREEK ABELIA	EVERGREEN	24" HT.	24"	3' O.C.	FULL CONTAINER
BG	12	BUXUS X 'GREEN MOUNTAIN'	BOXWOOD	EVERGREEN	18" HT	18–20"	AS SHOWN	FULL CONTAINER
Bg	31	BUXUS X 'GREEN MOUNTAIN'	BOXWOOD	EVERGREEN	36" HT.	30–32"	AS SHOWN	FULL CONTAINER
FE	210	FESTUCA GLAUCA 'ELIJAH BLUE'	ELIJAH BLUE FESCUE	ORNAMENTAL GRASSES	12" HT.	12"	AS SHOWN	FULL CONTAINER
JF	21	JUNIPERUS CHINENSIS 'SEA GREEN'	SEA GREEN JUNIPER	EVERGREEN	36" HT.	36"	AS SHOWN	FULL CONTAINER
Pv	137	PANICUM VIRGATUM	SWITCH GRASS	ORNAMENTAL GRASS	18" HT	12"	AS SHOWN	TRIANGULATE SPACING
Po	56	PRUNUS LAUROCERASUS 'OTTO LUYKEN'	LUYKENS LAUREL	EVERGREEN	36" HT.	36"	AS SHOWN	B&B OR FULL CONTAINER
TD	62	TAXUS X MEDIA 'DENSIFORMIS'	DENSE YEW	EVERGREEN	24" HT	24"	48"O.C.	FULL CONTAINER
VP	41	VIBURNUM X PRAGENSE	PRAGUE VIBURNUM	EVERGREEN	36" HT.	36"	AS SHOWN	FULL CONTAINER

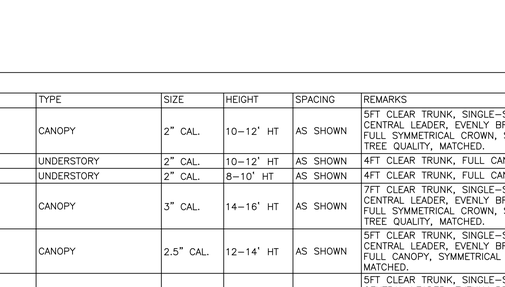
GROUND COVERS	QTY	BOTANICAL NAME	COMMON NAME	TYPE	CONT	SPREAD	SPACING	REMARKS
CO	172	COREOPSIS X 'STAR CLUSTER'	STAR CLUSTER TICKSEED	PERENNIAL	4" POT	18" O.C.	18"O.C.	TRIANGULATE SPACING
DE	63	DRYOPTERIS ERYTHROSORA	AUTUMN FERN	PERENNIAL	4" POT	18" O.C.	18"O.C.	TRIANGULATE SPACING
Fb	25,487 SF	FESTUCA ARUNDINACEA BLEND	TURF–TYPE TALL FESCUE BLEND	SOD	––	––	––	LOCALLY GROWN HEAT TOLERANT
Hy	147	HEMEROCALLIS X	HYBRID DAYLILY	GROUND COVER	4" POT	––	12"O.C.	TRIANGULATE SPACING
HP	72	HEUCHERA MICRANTHA 'PALACE PURPLE'	PALACE PURPLE CORAL BELLS	PERENNIAL	4" POT	18" O.C.	18"O.C.	TRIANGULATE SPACING
LA	363	LIRIOPE MUSCARI 'ALBA'	WHITE LILY TURF	PERENNIAL	4" POT	18" O.C.	18"O.C.	TRIANGULATE SPACING



TREE PLANTING
NOT TO SCALE

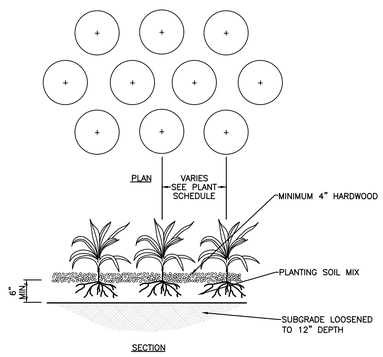
NOTES:
1. DO NOT STAKE TREES UNLESS APPROVED BY THE LANDSCAPE ARCHITECT. IF STAKED, REMOVE AFTER ONE GROWING SEASON.
2. DO NOT WRAP TREE TRUNKS UNLESS APPROVED BY THE LANDSCAPE ARCHITECT. REMOVE WRAP AFTER PLANTING.
3. NON–BIODEGRADABLE BURLAP TO BE REMOVED OR ROLLED UNDER ROOT BALL AFTER PLANT IS PLACED IN HOLE.

THE PROPERTY SHALL BE RESPONSIBLE FOR MAINTAINING ALL LANDSCAPING MATERIALS, INCLUDING TURF, AND IRRIGATION BOTH ON THE PROPERTY AND INSIDE OF THE R.O.W.

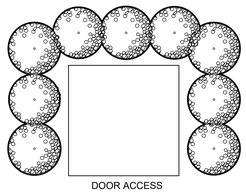


SHRUB PLANTING
NOT TO SCALE

NOTES:
1. WHERE PLANTS ARE SHOWN IN BEDS, MULCH SHALL COVER ENTIRE BED AS DENOTED ON THE PLANS.
2. CONTAINER GROWN PLANT MATERIAL MAY BE SUBSTITUTED FOR BURLAP MATERIAL



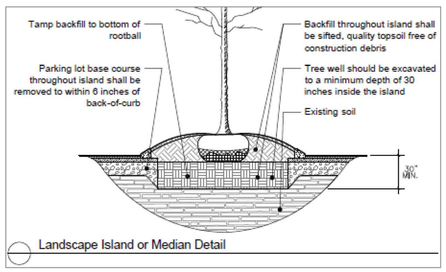
GROUNDCOVER PLANTING
NOT TO SCALE



DOOR ACCESS

TYPICAL SCREENING FOR ABOVE GROUND UTILITIES

ALL SERVICE AREAS, MECHANICAL EQUIPMENT, TRASH CONTAINERS, AND FIELD SET ABOVE–GROUND UTILITY BOXES MUST BE SCREENED FROM THE PUBLIC R.O.W. ON THREE SIDES (LEAVING DOOR ACCESS FREE FROM PLANTINGS) WITH REQUIRED EVERGREEN PLANT MATERIAL. SCREENING MATERIAL MUST MEET OR EXCEED THE HEIGHT OF THE STRUCTURE THAT IS TO BE SCREENED. PRAGUE VIBURNUM OR APPROVED EQUAL SHOULD BE UTILIZED TO MEET THE SCREENING REQUIREMENT.



PLANTING NOTES:

1. ANY SERIES OF TREES TO BE PLACED IN A PARTICULAR ARRANGEMENT WILL BE FIELD CHECKED FOR ACCURACY. ANY PLANTS MISARRANGED WILL BE RELOCATED.
2. SOIL USED IN BACKFILLING PLANTING PITS SHALL BE TOPSOIL AND MIXED WITH 25% PEAT BY VOLUME. EXCEPT FOR ERICACEOUS PLANTS, VERY ACID OR SOUR SOIL (SOIL HAVING A pH less than 6) SHALL BE MIXED WITH SUFFICIENT LIME TO PRODUCE A SLIGHTLY ACID REACTION (A pH of 6.0 to 6.5). ADD 10–10–10 COMMERCIAL FERTILIZER AT THE RATE OF 2 POUNDS PER CUBIC YARD. MIX BOTH FERTILIZER AND PEAT THOROUGHLY BY HAND OR ROTARY TILLER.
3. SOIL USED IN BACKFILLING ERICACEOUS PLANTS SHALL BE TOPSOIL MIXED WITH 50% PEAT BY VOLUME. ADD 5–10–5 COMMERCIAL FERTILIZER AT THE RATE OF 5 POUNDS PER CUBIC YARD. MIX BOTH FERTILIZER AND PEAT THOROUGHLY BY HAND OR ROTARY TILLER.
4. UPON SECURING PLANT MATERIAL AND BEFORE INSTALLATION, THE CONTRACTOR SHALL NOTIFY THE LANDSCAPE ARCHITECT OR OWNER'S REPRESENTATIVE FOR A PRE–INSTALLATION INSPECTION TO VERIFY ALL PLANT MATERIAL MEETS SPECIFICATION. MATCH TREES OF SAME SPECIES IN GROWTH CHARACTER AND UNIFORMITY.
5. APPLY HERBICIDE (TREFLAN OR EQUIVALENT) TO ALL PLANT BEDS PRIOR TO PLANTING FOR NOXIOUS WEED CONTROL AT A RATE OF 2 POUNDS PER 1,000 SQUARE FEET.
6. CONTRACTOR SHALL SUBMIT A 10 OUNCE SAMPLE OF THE TOPSOIL PROPOSED TO A TESTING LABORATORY FOR ANALYSIS. SUBMIT TEST RESULTS WITH RECOMMENDATIONS FOR SUITABILITY TO THE OWNER'S REPRESENTATIVE FOR APPROVAL.
7. PLANTS SHALL BE ORIENTED FOR BEST APPEARANCE AND VERTICAL.ALL NON–BIODEGRADABLE ROOT CONTAINERS SHALL BE REMOVED.
8. SELECTIVELY TRIM TREE BRANCHES BY 25%, MAINTAINING NATURAL SHAPE. PRUNE ALL DEAD AND BROKEN BRANCHES IN TREES AND SHRUBS. REMOVE TAGS, TWINE OR OTHER NON–BIODEGRADABLE MATERIAL.
9. SCARIFY SUBSOIL IN PLANTING BEDS TO A DEPTH OF 3 INCHES. ALL PLANTING BEDS SHALL RECEIVE A MINIMUM OF 6 INCHES OF TOPSOIL.
10. CONTRACTOR SHALL PROVIDE SMOOTH, NEATLY TRENCHED (3 INCH DEEP) BED EDGES.
11. ALL PLANTING BEDS TO HAVE A MINIMUM 4 INCH DEEP SHREDDED HARDWOOD MULCH.
12. DIMENSIONS FOR TRUNK CALIPER, HEIGHTS, AND SPREAD SPECIFIED ON THE MATERIAL SCHEDULE ARE A GENERAL GUIDE FOR THE MINIMUM REQUIRED SIZE OF EACH PLANT. QUALITY AND SIZE OF PLANTS, SPREAD OF ROOTS AND SIZE OF BALLS SHALL BE IN ACCORDANCE WITH A.N.S.I. Z60.1 'AMERICAN STANDARD FOR NURSERY STOCK' (CURRENT EDITION) AS PUBLISHED BY THE AMERICAN ASSOCIATION OF NURSERYMEN, INC.
13. TREES OF THE SAME SPECIES SHALL HAVE THE FOLLOWING CHARACTERISTICS: MATCHED BY BRANCHING HEIGHT, CALIPER, HEIGHT OF TREE, SPREAD OF BRANCHES AND BRANCHING STRUCTURE, AND OVERALL CANOPY SHAPE.
14. THE QUANTITIES INDICATED ON THE MATERIAL SCHEDULE ARE PROVIDED FOR THE BENEFIT OF THE CONTRACTOR, BUT SHOULD NOT BE ASSUMED TO ALWAYS BE CORRECT. IN THE EVENT OF A DISCREPANCY, THE PLANTING PLAN (PLANT SYMBOLS) WILL TAKE PRECEDENCE OVER THE MATERIAL SCHEDULE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR HIS/HER OWN QUANTITY CALCULATIONS AND THE LIABILITY PERTAINING TO THOSE QUANTITIES AND ANY RELATED CONTRACT DOCUMENTS AND/OR PRICE QUOTATIONS.
15. CONTRACTOR TO WARRANTY ALL MATERIAL FOR ONE YEAR AFTER DATE OF FINAL ACCEPTANCE.

IRRIGATION NOTES:

1. ALL PROPOSED PLANTED AREAS ARE TO BE IRRIGATED UTILIZING FULL COVERAGE DESIGN.
2. SUBMIT PROPOSED IRRIGATION PLAN TO THE LANDSCAPE ARCHITECT OR OWNER'S REPRESENTATIVE FOR GENERAL REVIEW AND ACCEPTANCE.
3. PROPOSED IRRIGATION SYSTEM SHOULD UTILIZE ANY RECLAIMED/REUSED/GRAY WATER PUBLIC SYSTEMS IF ACCESSIBLE.
4. SHOULD RECLAIMED/REUSED/GRAY WATER NOT BE AVAILABLE, BELOW GRADE CISTERNS OR ON–SITE RETENTION PONDS SHOULD BE CONSIDERED FOR AN IRRIGATION WATER SOURCE. USE OF PUBLIC POTABLE WATER SOURCE SHOULD BE A LAST CASE RESORT AND DESIGNED AS A TEMPORARY IRRIGATION SYSTEM UTILIZED TO ESTABLISHED PROPOSED PLANT MATERIAL THROUGH ITS FIRST TWO YEARS OF GROWTH.
5. PROPOSED IRRIGATION DESIGN SHOULD UTILIZE WATER EFFICIENT DESIGN TECHNIQUES SUCH AS THE USE OF DRIP IRRIGATION, MOISTURE SENSORS AND RAIN SENSORS TO MAXIMIZE WATER EFFICIENCY.
6. IRRIGATION CONTRACTOR IS RESPONSIBLE FOR INSTALLING AN IRRIGATION SYSTEM THAT FUNCTIONS PROPERLY PER THE INTENT OF THE DESIGN. SHOULD THE IRRIGATION CONTRACTOR SEE A FLAW IN THE PROPOSED DESIGN AND/OR FINDS A PROBLEM IN THE FIELD THAT WILL NEGATIVELY AFFECT THE PERFORMANCE OF THE PROPOSED IRRIGATION SYSTEM, THE SAID CONTRACTOR IS RESPONSIBLE FOR INFORMING THE LANDSCAPE ARCHITECT/OWNER'S REPRESENTATIVE PRIOR TO INSTALLING OR ORDERING MATERIAL FOR THE PROPOSED IRRIGATION SYSTEM.
7. IRRIGATION PLANS TO BE SUBMITTED PRIOR TO ISSUANCE OF PERMITS.

SODDING NOTES:

1. AREAS INDICATED FOR SOD SHALL BE TURF–TYPE TALL FESCUE, A BLEND OF 3–5 VARIETIES (ADDRESSING BOTH COLD HARDINESS AND DROUGHT TOLERANCE) FROM THE TOP 10% SELECTIONS IN THE NATIONAL TURFGRASS EVALUATION PROGRAM (N.T.E.P) TALL FESCUE TRIALS, MOST RECENT EVALUATION YEAR (WWW.NTEP.ORG). MINIMUM AGE SHALL BE 18 MONTHS, WITH ROOT DEVELOPMENT THAT WILL SUPPORT ITS OWN WEIGHT WITHOUT TEARING WHEN SUSPENDED VERTICALLY BY HOLDING THE UPPER TWO CORNERS.
2. SUBMIT SOD CERTIFICATION FOR GRASS SPECIES AND LOCATION OF SOD SOURCE. INCLUDE CERTIFICATION THAT SOD IS FREE OF DISEASE, NEMATODES, UNDESIRABLE INSECTS, AND QUARANTINE RESTRICTIONS.
3. SOD SHALL BE DELIVERED ON PALLETS. STORE SOD AT A LOCATION PROTECTED FROM DAMAGING WINDS.
4. APPLY 6–12–12 COMMERCIAL TYPE FERTILIZER, WITH 50% OF THE ELEMENT DERIVED FROM ORGANIC SOURCES AT A RATE RECOMMENDED BY THE MANUFACTURER. APPLY AFTER SMOOTH RAKING OF TOPSOIL AND NO MORE THAN 48 HOURS BEFORE LAYING SOD. MIX THOROUGHLY IN THE UPPER 2 INCHES OF TOPSOIL AND LIGHTLY WATER TO AID BREAKDOWN.
5. LIGHTLY MOISTEN AREA TO RECEIVE SOD IMMEDIATELY PRIOR TO LAYING SOD.
6. LAY SOD TIGHTLY WITH NO OPEN JOINTS VISIBLE AND NOT OVERLAPPING. STAGGER END JOINTS A MINIMUM OF 12 INCHES AND DO NOT STRETCH SOD PIECES.
7. ON SLOPES 6 INCHES PER FOOT AND STEEPER, LAY SOD PERPENDICULAR TO SLOPE AND SECURE EVERY ROW WITH WOODEN PEGS AT AN MAXIMUM 2 FEET O.C. DRIVE PEGS FLUSH WITH SOD PORTION OF SOD.
8. PRIOR TO PLACING SOD ON SLOPES OF 8 INCHES PER FOOT AND STEEPER, PLACE JUTE EROSION CONTROL MESH OVER TOPSOIL. SECURELY ANCHOR IN PLACE WITH PEGS SUNK FIRMLY INTO THE GROUND. CONTRACTOR SHALL SUBMIT 12" X 12" SAMPLES OF JUTE MESH FOR REVIEW TO LANDSCAPE ARCHITECT OR OWNER'S REPRESENTATIVE PRIOR TO INSTALLATION.
9. IMMEDIATELY AFTER INSTALLATION, WATER SODDED AREAS TO A DEPTH OF 4 INCHES.
10. AFTER SOD AND SOIL HAVE DRIED, ROLL SODDED AREAS TO ENSURE A GOOD BOND BETWEEN SOIL AND SOD. ROLLER SHALL NOT EXCEED 150 POUNDS.
11. CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING (MOWING, TRIMMING, WATERING) THE SOD UNTIL THE INSTALLATION IS INSPECTED AND ACCEPTED BY THE OWNER'S REPRESENTATIVE.
12. THE CONTRACTOR SHALL REPLACE SOD AREAS THAT SHOW DETERIORATION FOR A PERIOD OF ONE YEAR AFTER ACCEPTANCE OF THE INSTALLATION. REPLACE DETERIORATED MATERIAL WITH SOD OF EQUAL QUALITY ORIGINALLY SPECIFIED.

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McCarty Holsaple McCarty, Inc.
550 W. Main St., Suite 300
Knoxville, TN 37902
t 865.544.2000
www.mhminc.com

Consultants:

CIVIL ENGINEER:
HUDDLESTON-STEELE ENGINEERING INC.
2112 N.W. BROAD ST.
MURFREESBORO, TN 37129
615.893.4084

LANDSCAPE ARCHITECT:
RAGAN SMITH
100 E. VINE ST., STE 200
MURFREESBORO, TN 37130
615.546.6050

STRUCTURAL ENGINEER:
HAINES STRUCTURAL GROUP
800 S. GAY ST., STE 1750
KNOXVILLE TN, 37929
865.329.9920

MECHANICAL & PLUMBING ENGINEER:
FACILITY SYSTEMS CONSULTANTS
713 S. CENTRAL ST., STE 101
KNOXVILLE TN, 37902
865.246.0164

ELECTRICAL ENGINEER:
FACILITY SYSTEMS CONSULTANTS
713 S. CENTRAL ST., STE 101
KNOXVILLE TN, 37902
865.246.0164

Project Information:

21026

MHA Parkside Housing
520 EAST CASTLE STREET,
MURFREESBORO, TN 37130

Seal:

Consultant:

RaganSmith

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LANDSCAPE NOTES & DETAILS

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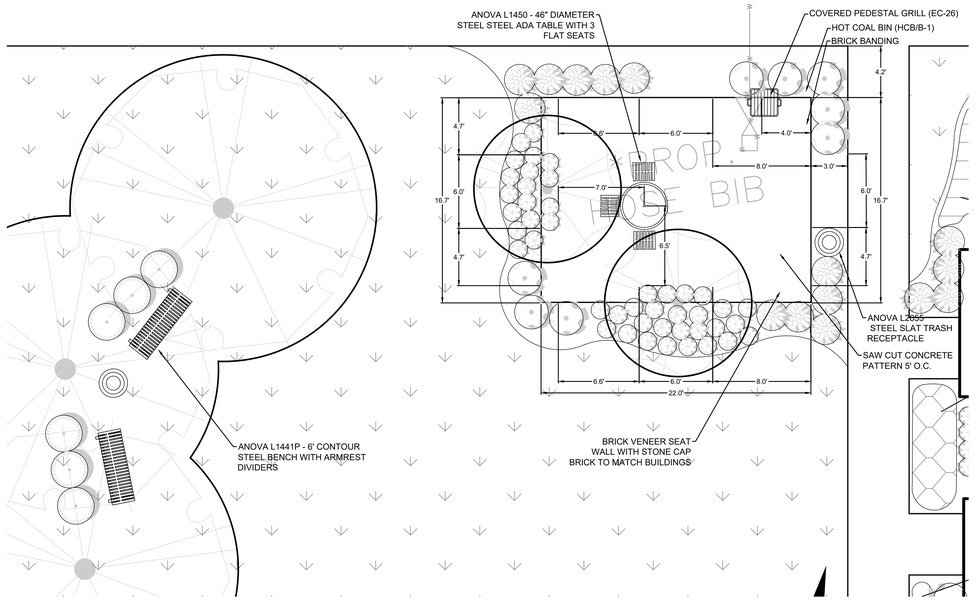
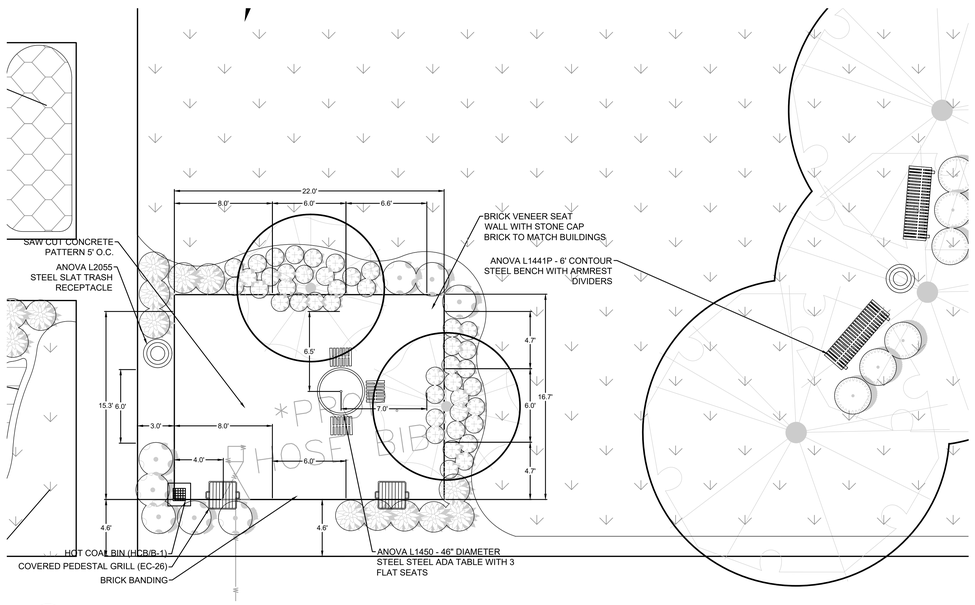


A NORTH OPEN SPACE ENLARGEMENT
SCALE: 1" = 5'



B SOUTH OPEN SPACE ENLARGEMENT
SCALE: 1" = 5'

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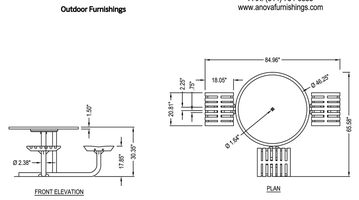

FRONT ELEVATION PLAN

*Must be suface mounted. Meets federal ADA requirements.
Colors and/or Options: Please see manufacturer website at www.anovafurnishings.com.
Finish: Tabletop/Seats: Protected by patented Fusion Advantage™, a heat fused plastisol coating that creates an impervious rustproof barrier and resists UV deterioration, mildew, staining and fading. Frame/Legs: Fade-resistant, powder coated steel features a state-of-the-art primer proven to prevent rusting.
Material: 12-gauge steel solid surface tabletop with 1.5" square steel tube edge. 12-gauge steel seats with a .75" gap slotted pattern and a reinforced frame connection. Frame and legs are 2.38" O.D. steel tubing.
Capacity: 4 person with 1 wheelchair placement.
Unit Weight: 249 lbs.
Assembly: Table requires some assembly. Stainless steel assembly hardware is included.
Structural Warranty: Limited 20-year warranty.
Finish Warranty: Fusion Advantage - 7-year warranty against fading, rusting, peeling, chipping, cracking, mold, mildew and defects in materials and/or workmanship. Powder Coat: 3-year warranty against rusting, peeling, chipping, cracking, mold, mildew and defects in materials and/or workmanship. 7-year warranty against fading.

NOTES:
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5. CONTRACTOR'S NOTE: FOR PRODUCT AND COMPANY INFORMATION VISIT www.CADdetails.com/info AND ENTER REFERENCE NUMBER 928-313.

LATITUDE COLLECTION
L1450 - LATITUDE 46" DIA. ROUND ADA TABLE, 3 FLAT SEATS

928-313 REVISION DATE 12/14/2020

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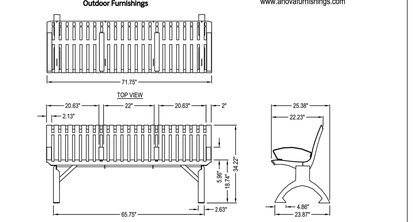

FRONT ELEVATION SIDE ELEVATION

Colors and/or Options: Please see manufacturer website at www.anovafurnishings.com.
Finish: Seat: Protected by patented Fusion Advantage™, a heat fused plastisol coating that creates an impervious rustproof barrier and resists UV deterioration, mildew, staining and fading. Legs/Armrests/Under Supports: Fade-resistant, powder coated steel and aluminum features a state-of-the-art primer proven to prevent rusting.
Material: 12-gauge steel slat seat with a .75" wide slot pattern and cast aluminum legs and four formed steel armrests for divided seating.
Capacity: 200 lbs. per linear foot.
Unit Weight: 148 lbs.
Assembly: Some assembly is required. Stainless steel assembly hardware is included.
Structural Warranty: Limited 20-year warranty.
Finish Warranty: Fusion Advantage - 7-year warranty against fading, rusting, peeling, chipping, cracking, mold, mildew and defects in materials and/or workmanship. Powder Coat: 3-year warranty against rusting, peeling, chipping, cracking, mold, mildew and defects in materials and/or workmanship. 7-year warranty against fading.

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LATITUDE COLLECTION
L1441P - LATITUDE 6' CONTOUR BENCH WITH DIVIDED SEATING

928-799 REVISION DATE 02/09/2021

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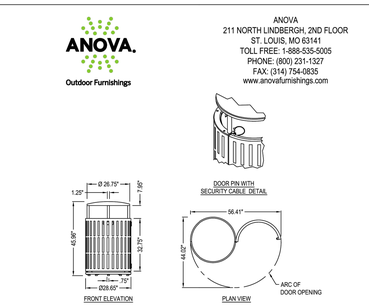

FRONT ELEVATION PLAN VIEW

Colors and/or Options: Please see manufacturer website at www.anovafurnishings.com.
Finish: Receptacle: Protected by patented Fusion Advantage™, a heat fused plastisol coating that creates an impervious rustproof barrier and resists UV deterioration, mildew, staining and fading. Bonnet Top: Fade-resistant, powder coated steel features a state-of-the-art primer proven to prevent rusting.
Material: Composed of 14-gauge steel with a .75" gap vertical slotted pattern and built-in bonnet top made of 18-gauge spun steel with 1.25" square tube frame and 10-gauge base. Reusable plastic liner is made of low-density polyethylene.
Capacity: 55-gallon.
Unit Weight: 173 lbs.
Assembly: Receptacle ships fully assembled and ready for use. Using an optional anchor may require some assembly.
Structural Warranty: Limited 20-year warranty.
Finish Warranty: 7-year warranty against fading, rusting, peeling, chipping, cracking, mold, mildew and defects in materials and/or workmanship. Powder Coat: 3-year warranty against rusting, peeling, chipping, cracking, mold, mildew and defects in materials and/or workmanship. 7-year warranty against fading.

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5. CONTRACTOR'S NOTE: FOR PRODUCT AND COMPANY INFORMATION VISIT www.CADdetails.com/info AND ENTER REFERENCE NUMBER 928-335.

LATITUDE COLLECTION
L2055 - LATITUDE 55 GALLON SIDE OPENING RECEPTACLE, BONNET TOP

928-335 REVISION DATE 02/09/2021

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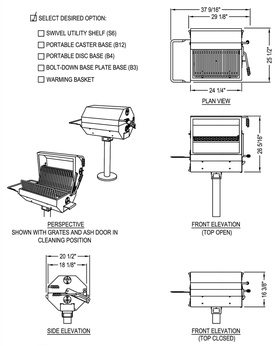
- ☐ WARMING BASKET



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5. CONTRACTOR'S NOTE: FOR PRODUCT AND COMPANY INFORMATION VISIT www.CADdetails.com/info AND ENTER REFERENCE NUMBER 2758-014

CHARCOAL GRILLS
COVERED PARK GRILL (EC-26)

2758-014 REVISION DATE 18/06/2019

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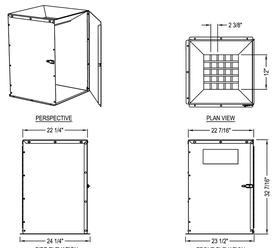

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5. CONTRACTOR'S NOTE: FOR PRODUCT AND COMPANY INFORMATION VISIT www.CADdetails.com/info AND ENTER REFERENCE NUMBER 2758-006

CHARCOAL GRILLS
HOT COAL BIN (HCB/B-1)

2758-006 REVISION DATE 18/06/2019

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t 865.544.2000
www.mhminc.com

Consultants:

CIVIL ENGINEER:
HUDDLESTON-STEELE ENGINEERING INC.
2112 N.W. BROAD ST.
MURFREESBORO, TN 37129
615.893.4084

LANDSCAPE ARCHITECT:
RAGAN SMITH
100 E. VINE ST., STE 200
MURFREESBORO, TN 37130
615.546.6050

STRUCTURAL ENGINEER:
HAINES STRUCTURAL GROUP
800 S. GAY ST., STE 1750
KNOXVILLE TN, 37929
865.329.9920

MECHANICAL & PLUMBING ENGINEER:
FACILITY SYSTEMS CONSULTANTS
713 S. CENTRAL ST., STE 101
KNOXVILLE TN, 37902
865.246.0164

ELECTRICAL ENGINEER:
FACILITY SYSTEMS CONSULTANTS
713 S. CENTRAL ST., STE 101
KNOXVILLE TN, 37902
865.246.0164

Project Information:

21026

MHA Parkside Housing
520 EAST CASTLE STREET,
MURFREESBORO, TN 37130

Seal:

Consultant:
RaganSmith

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Checked By:	M. HAMILTON

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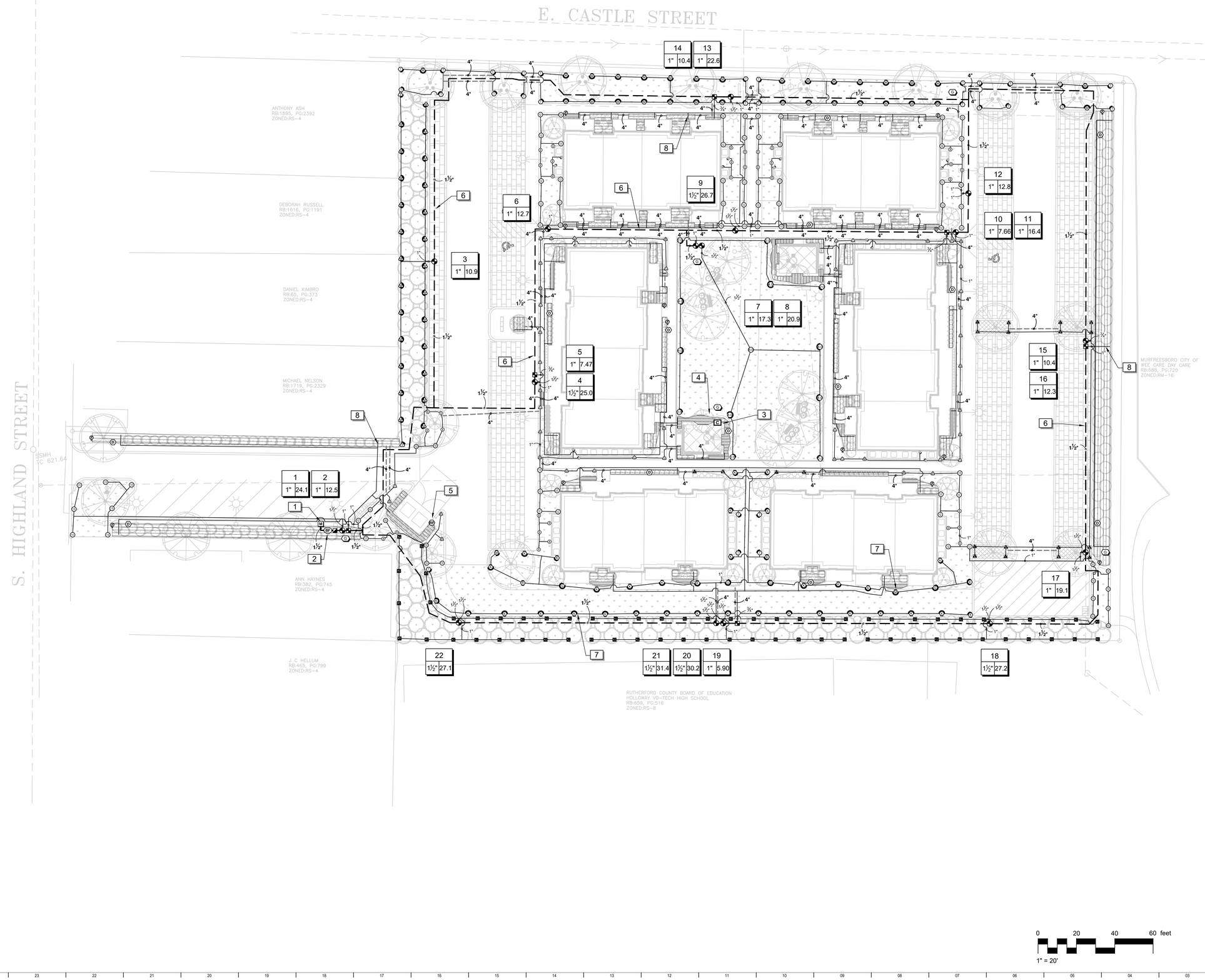
OPEN SPACE PLAN



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550 W. Main St., Suite 300
Knoxville, TN 37902
t 865.544.2000
www.mhminc.com

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CIVIL ENGINEER:

HUDDLESTON-STEELE ENGINEERING INC.
2112 N.W. BROAD ST.
MURFREESBORO, TN 37129
615.893.4084

LANDSCAPE ARCHITECT:

RAGAN SMITH
100 E. VINE ST., STE 200
MURFREESBORO, TN 37130
615.546.6050

STRUCTURAL ENGINEER:

HAINES STRUCTURAL GROUP
800 S. GAY ST., STE 1750
KNOXVILLE TN, 37929
865.329.9920

MECHANICAL & PLUMBING ENGINEER:

FACILITY SYSTEMS CONSULTANTS
713 S. CENTRAL ST., STE 101
KNOXVILLE TN, 37902
865.246.0164

ELECTRICAL ENGINEER:

FACILITY SYSTEMS CONSULTANTS
713 S. CENTRAL ST., STE 101
KNOXVILLE TN, 37902
865.246.0164

Project Information:

21026

MHA Parkside Housing

520 EAST CASTLE STREET,
MURFREESBORO, TN 37130

MICHAEL C. BUTLER
REGISTERED
COMMERCIAL

04/04/2022

Consultant:

RaganSmith

#	ISSUE	DATE

Issue Date:	04.04.2022
PIC	M. BUTLER
PM	M. BUTLER
PA	G. TAYLOR
Drawn By:	M. CLARK
Checked By:	M. CLARK

Sheet Description:

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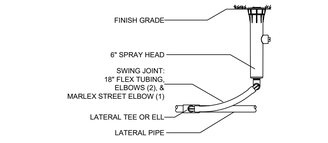
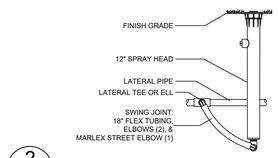
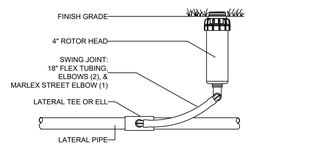
IRRIGATION PLAN



1 6" SPRAY BODY
NTS



2 12" SPRAY BODY
NTS



3 3/4" INLET ROTOR
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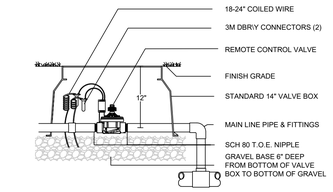

4 ELECTRIC CONTROL VALVE
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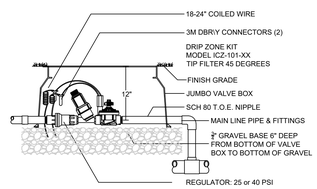

5 DRIP CONTROL ZONE
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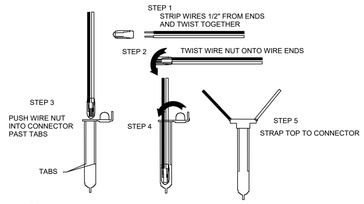

6 WIRE CONNECTION 3M-DBR6-Y
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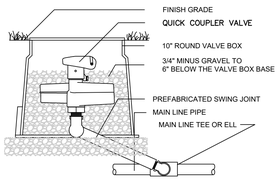

7 QUICK COUPLER VALVE
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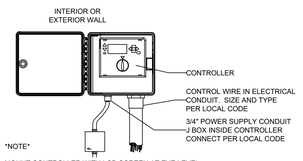
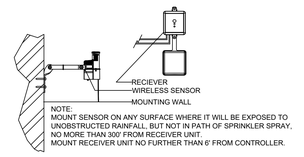


8 WALL MOUNT CONTROLLER
NTS



9 WIRELESS RAIN SENSOR
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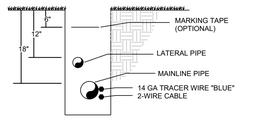
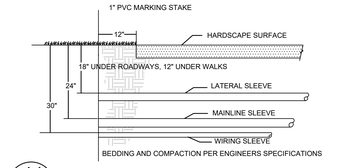
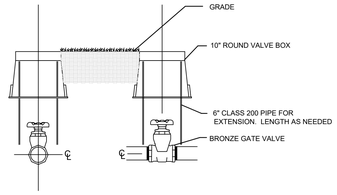


10 TRENCH, PIPE AND WIRE
NTS



11 SLEEVING
NTS



12 ISOLATION VALVE DETAIL
NTS

CONTRACTOR'S QUALIFICATION REQUIREMENTS

1. IRRIGATION CONTRACTOR TO BE STATE LICENSED, IF REQUIRED, AND A IRRIGATION ASSOCIATION CERTIFIED IRRIGATION CONTRACTOR IN GOOD STANDING. PROVIDE CIC CERTIFICATE WITH SUBMITTALS.
2. CONTRACTOR MUST HAVE COMPLETED THE MANUFACTURERS 2-WIRE CONSTRUCTION TRAINING COURSE AND PROVIDE CERTIFICATE OF COMPLETION AS PART OF THE SUBMITTALS.
3. CONTRACTOR MUST HAVE COMPLETED THE MANUFACTURERS 2-WIRE CONTROLLER PROGRAMMING COURSE AND PROVIDE CERTIFICATE OF COMPLETION AS PART OF THE SUBMITTALS.
4. CONTRACTOR THAT CANNOT PROVIDE ITEMS 1-3 ABOVE SHOULD NOT BE ALLOWED TO CONSTRUCT THE IRRIGATION SYSTEM.

DRIP ZONE NOTES

1. IT IS IRRIGATION CONTRACTOR'S RESPONSIBILITY TO ENSURE THAT EACH PLANT IS WITHIN THE DRIPLINE WETTED PATTERN ON NO LESS THAN 2 SIDES.
2. DRIPLINE TO BE LAID OUT AND INSTALLED AS DETAIL EXAMPLES.
3. DRIPLINE TO BE INSTALLED IN GRID FASHION WITH TUBING ON 18" CENTERS, ELBOWS AND TEES ARE TO BE USED FOR CHANGES IN DIRECTION, LOOPING OF DRIPLINE IS NOT ACCEPTABLE.
4. DRIPLINE IS TO BE INSTALLED, TESTED AND INSPECTED TO ENSURE EACH EMITTER FUNCTIONS PROPERLY PRIOR TO COVERING WITH MULCH.
5. ALL DRIPLINE SUPPLY PIPING TO BE CL 200 PVC.
6. ALL PIPING WITHIN A DRIP ZONE THAT IS UNDER THE HARDSCAPE TO BE CL 200 PVC.
7. DRIPLINE TO BE STAKED DOWN EVERY 3' AND WITHIN 1' OF ALL FITTING OUTLETS.
8. ALL FLUSH VALVES ARE TO BE INSPECTED FOR PROPER OPERATION.
9. IRRIGATION CONTRACTOR TO MEET WITH DRIP COMPONENT MANUFACTURERS REPRESENTATIVE AND OWNER'S REPRESENTATIVE ON SITE PRIOR TO CONSTRUCTION TO REVIEW DRIP COMPONENT CONSTRUCTION, OPERATION AND MAINTENANCE.

CONTROLLER INSTALLATION NOTES

1. IRRIGATION CONTRACTOR TO COORDINATE EXACT LOCATION OF CONTROLLER WITH OWNER'S REPRESENTATIVE.
2. PROVIDE 120VAC 20 AMP POWER TO JUNCTION BOX AT CONTROLLER LOCATION.
3. IRRIGATION CONTRACTOR TO HARD WIRE CONTROLLER TO POWER SUPPLY AS PER PREVAILING CODE.
4. CONTROLLER TO BE SECURELY ATTACHED TO THE WALL USING METALLIC FASTENERS MADE FOR WALL TYPE.
5. ALL IRRIGATION CONTROL WIRE ABOVE GRADE TO BE ENCASED IN PVC ELECTRICAL CONDUIT.
6. IRRIGATION CONTRACTOR IS RESPONSIBLE FOR ALL POTENTIAL WALL PENETRATIONS AND THE SEALING OF THOSE PENETRATIONS.
7. CONTROLLER TO BE GROUNDED AS PER MANUFACTURERS RECOMMENDATIONS.

VALVE SCHEDULE

NUMBER	MODEL	SIZE	TYPE	GPM	PRECIP
1	Rain Bird PEB	1"	Turf Spray	24.05	1.45 in/h
2	Rain Bird XCZ-100-PRB-LC	1"	Area for Dripline	12.45	0.73 in/h
3	Rain Bird PEB	1"	Shrub Rotary	10.88	0.38 in/h
4	Rain Bird PEB	1-1/2"	Turf Spray	24.99	1.61 in/h
5	Rain Bird XCZ-100-PRB-LC	1"	Area for Dripline	7.47	0.91 in/h
6	Rain Bird PEB	1"	Turf Spray	12.75	1.72 in/h
7	Rain Bird PEB	1"	Turf Rotor	17.30	0.71 in/h
8	Rain Bird PEB	1"	Turf Rotor	20.90	0.67 in/h
9	Rain Bird PEB	1-1/2"	Turf Spray	26.67	1.66 in/h
10	Rain Bird XCZ-100-PRB-LC	1"	Area for Dripline	7.66	0.94 in/h
11	Rain Bird PEB	1"	Turf Spray	16.40	1.59 in/h
12	Rain Bird PEB	1"	Turf Spray	12.79	1.74 in/h
13	Rain Bird PEB	1"	Turf Rotary	22.56	0.48 in/h
14	Rain Bird XCZ-100-PRB-LC	1"	Area for Dripline	10.37	0.93 in/h
15	Rain Bird PEB	1"	Shrub Spray	10.40	1.94 in/h
16	Rain Bird XCZ-100-PRB-LC	1"	Area for Dripline	12.29	0.58 in/h
17	Rain Bird PEB	1"	Turf Spray	19.11	1.61 in/h
18	Rain Bird PEB	1-1/2"	Shrub Spray	27.22	1.51 in/h
19	Rain Bird XCZ-100-PRB-LC	1"	Area for Dripline	5.90	0.81 in/h
20	Rain Bird PEB	1-1/2"	Shrub Spray	30.16	1.47 in/h
21	Rain Bird PEB	1-1/2"	Turf Rotary	31.37	0.42 in/h
22	Rain Bird PEB	1-1/2"	Shrub Spray	27.08	1.29 in/h

CRITICAL ANALYSIS

Generated:	2022-03-09 12:57
P.O.C. NUMBER: 01	
Water Source Information:	Irrigation Meter 1-1/2" or larger.
FLOW AVAILABLE	
Water Meter Size:	1-1/2"
Flow Available	40.32 GPM
PRESSURE AVAILABLE	
Static Pressure at POC:	70.00 PSI
Elevation Change:	5.00 ft
Service Line Size:	1 1/2"
Length of Service Line:	20 ft
Pressure Available:	66.00 psi
DESIGN ANALYSIS	
Maximum Station Flow:	31.37 GPM
Flow Available at POC:	40.32 GPM
Residual Flow Available:	8.95 GPM
Pressure Req. at Critical Station:	45.5 PSI
Loss for Fittings:	0.31 PSI
Loss for Main Line:	3.13 PSI
Loss for POC to Valve Elevation:	0 PSI
Loss for Backflow:	10.77 PSI
Loss for Water Meter:	2.02 PSI
Critical Station Pressure at POC:	61.73 PSI
Pressure Available:	66 PSI
Residual Pressure Available:	4.27 PSI

GENERAL NOTES

1. ALL TRENCHING TO BE OUTSIDE OF TREE DRIP LINE
2. MAINLINE TO HAVE MINIMUM OF 18" OF COVER AND A MINIMUM OF 18" OFF OF THE HARDSCAPE
3. LATERALS TO HAVE MINIMUM OF 12" OF COVER AND A MINIMUM OF 12" OFF OF THE HARDSCAPE
4. NO ROCKS, BOULDERS OR SHARP OBJECTS TO BE IN TRENCH BACKFILL
5. ALL PIPE TO BE INSTALLED AS PER MANUFACTURES SPECIFICATIONS
6. SPRINKLERS AND RELATED EQUIPMENT TO BE INSTALLED AS PER DETAILS
7. TWO WIRE CONTROL WIRE TO BE 14 GA UL 2 CONDUCTOR, JACKETED AND APPROVED BY 2-WIRE CONTROLLER MANUFACTURER
8. ALL 2-WIRE CONTROL WIRE TO HAVE 14GA "BLUE" TRACER WIRE FROM THE CONTROLLER TO ALL CONTROL VALVES. TRACER WIRE TO HAVE A 24" LOOP LOCATED IN EACH CONTROL VALVE AND ISOLATION VALVE BOXES.
9. WIRE SPLICES TO BE DONE AS PER DETAILS
10. ALL WIRE SPLICES OUTSIDE OF CONTROL VALVE BOX TO BE IN 10" VALVE BOX
11. TWO WIRE CONDUCTORS TO BE COLOR CODED
12. CONTRACTOR SHALL INSTALL MANUFACTURES GROUNDING EQUIPMENT ON BOTH THE POWER AND OUTPUT SIDES OF CONTROLLER, ALL GROUNDING POINTS TO BE INSTALLED AS PER PLANS AND DETAILS
13. AT EACH VALVE AND CHANGE IN MAINLINE DIRECTION CONTRACTOR TO INSTALL A 30" LOOP OF EXTRA WIRE
14. SPRINKLERS ARE TO BE ADJUSTED TO AVOID OVER-SPRAY INTO NON-IRRIGATED AREAS
15. ELECTRIC CONTROL VALVES ARE TO BE INSTALLED IN VALVE BOXES AS FOLLOWS
    14" RECTANGULAR MINIMUM FOR EACH ELECTRIC CONTROL VALVE
    JUMBO VALVE BOX FOR DRIP ZONE KITS
16. SPRINKLERS TO BE INSTALLED 12" FROM FOUNDATIONS AND 2" FROM HARDSCAPE
17. CONTRACTOR TO ADD RISER EXTENSIONS TO SPRINKLERS IF REQUIRED TO MAINTAIN PROPER COVERAGE
18. ALL PIPING TO BE FLUSHED PRIOR TO INSTALLATION OF SPRINKLERS
19. ALL VALVES, QUICK COUPLER VALVES, WIRE SPLICES TO BE IN LANDSCAPED BEDS WHEREVER POSSIBLE
20. CONTRACTOR IS RESPONSIBLE FOR OBTAINING PROPER COVERAGE OF AREA TO BE IRRIGATED, MAKE ADJUSTMENTS AS NECESSARY
21. CONTRACTOR SHALL EXERCISE CARE NOT TO DAMAGE EXISTING UTILITIES REPAIRING ANY DAMAGES AT HIS OWN COST
22. PLAN IS DIAGRAMMATIC TO IMPROVE CLARITY ALL IRRIGATION EQUIPMENT TO BE INSTALLED WITHIN PROPERTY LINES AND LANDSCAPED AREAS
23. ANY DISCREPANCIES BETWEEN THE PLAN AND THE SITE TO BE REFERRED TO THE OWNER'S REPRESENTATIVE PRIOR TO CONSTRUCTION
24. CONTRACTOR TO PROVIDE 1 YEAR WARRANTEE OF ALL PRODUCTS AND WORKMANSHIP TO INCLUDE WINTERIZATION AND SPRING START-UP
25. CONTRACTOR TO PROVIDE OWNER AND OR LANDSCAPE ARCHITECT RECORD DRAWING PRIOR TO SUBSTANTIAL COMPLETION.
26. INSTALLATION OF IRRIGATION SLEEVES IS THE IRRIGATION CONTRACTORS RESPONSIBILITY. IRRIGATION CONTRACTOR TO COORDINATE WITH GENERAL CONTRACTOR SLEEVE INSTALLATION PRIOR TO PAVEMENT INSTALLATION
27. CLEANUP AND DISPOSE OF ALL DEBRIS, WASTE AND EXCESS CONSTRUCTION MATERIALS LEAVE AREA NEAT, CLEAN AND READY FOR OWNERS USE PROVIDE CLEAN PAVEMENT SURFACES INCLUDING AREAS OF PUBLIC R.O.W.

TWO WIRE CONTROL SYSTEM NOTES

1. ALL DECODER WIRE SPLICE CONNECTORS TO BE 3M DBRIY-6 OR BETTER.
2. ALL DECODER TO VALVE SOLENOID SPLICE CONNECTORS TO BE 3M DBRIY-6 OR BETTER
3. ALL GROUNDING POINTS TO HAVE RAIN BIRD LSP-01 LIGHTNING ARRESTOR INSTALLED INLINE AS PER MANUFACTURER'S REQUIREMENTS AND INSTALLED AS PER DETAIL.
4. ALL CONTROL SYSTEM PRODUCTS TO BE INSTALLED AND OPERATED AS PER THE MANUFACTURER'S RECOMMENDATIONS AND OR REQUIREMENTS.
5. IRRIGATION CONTRACTOR IS RESPONSIBLE FOR OBTAINING 2-WIRE INSTALLATION AND PROGRAMMING TRAINING PRIOR TO PROJECT START, PROVIDE CERTIFICATE OF COMPLETION OF THE TRAINING AS PART OF THE SUBMITTAL PROCESS.
7. IRRIGATION CONTRACTOR IS RESPONSIBLE FOR TRAINING OWNERS STAFF, AS NEEDED, ON THE OPERATION AND MAINTENANCE OF BASELINE CONTROL SYSTEM.
8. IRRIGATION CONTRACTOR IS RESPONSIBLE FOR COMPLETE PROGRAMMING AND OPERATION OF THE CONTROL SYSTEM FOR 6 MONTHS FROM THE DAY THE CONTROLLER BECOMES FUNCTIONAL. CONTRACTOR TO PROVIDE THE OWNERS REPRESENTATIVE A COMPUTER SPREAD SHEET THAT SHOWS EACH PROGRAM, OPERATIONAL DAYS AND RUN TIMES PER ZONE.

IRRIGATION SCHEDULE

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION
2Q 2H 4Q 4H 6Q 6H	Hunter PROS-06-PRS30-CV short radius nozzles Turf Spray, 30 psi regulated 6" Pop-Up. With factory installed Drain Check Valve. Co-molded wiper seal with UV Resistant Material.
ES LCS RCS CS SS	Hunter PROS-06-PRS30-CV 5` strip spray Turf Spray, 30 psi regulated 6" Pop-Up. With factory installed Drain Check Valve. Co-molded wiper seal with UV Resistant Material.
4 6 8 10 12 15 17	Hunter PROS-06-PRS30-CV adjustable arc Turf Spray, 30 psi regulated 6" Pop-Up. With factory installed Drain Check Valve. Co-molded wiper seal with UV Resistant Material.
ES LCS RCS CS SS	Hunter PROS-12-PRS30-CV 5` strip spray Shrub Spray, 30 psi regulated 12" Pop-Up. With Factory Installed Drain Check Valve. Co-molded wiper seal with UV Resistant Material.
4 6 8 10 12 15 17	Hunter PROS-12-PRS30-CV Adjustable Arc Shrub Spray, 30 psi regulated 12" Pop-Up. With Factory Installed Drain Check Valve. Co-molded wiper seal with UV Resistant Material.
1	Hunter MP Corner PROS-06-PRS40-CV Turf Rotator, 6" pop-up with factory installed check valve, pressure regulated to 40 psi, MP Rotator nozzle. T=Turquoise adj arc 45-105.
M M M	Hunter MP1000 PROS-06-PRS40-CV Turf Rotator, 6" pop-up with check valve, pressure regulated to 40 psi, MP Rotator nozzle. M=Maroon adj arc 90 to 210, L=Light Blue 210 to 270 arc, O=Olive 360 arc.
M M M	Hunter MP2000 PROS-06-PRS40-CV Turf Rotator, 6" pop-up with factory installed check valve, pressure regulated to 40 psi, MP Rotator nozzle. K=Black adj arc 90-210, G=Green adj arc 210-270, R=Red 360 arc.
1	Hunter MP Corner PROS-12-PRS40-CV Shrub Rotator, 12" pop-up with factory installed check valve, pressure regulated to 40 psi, MP Rotator nozzle. T=Turquoise adj arc 45-105.
M M M	Hunter MP1000 PROS-12-PRS40-CV Shrub Rotator, 12" pop-up with check valve, pressure regulated to 40 psi, MP Rotator nozzle. M=Maroon adj arc 90 to 210, L=Light Blue 210 to 270 arc, O=Olive 360 arc.

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION
2.0	Hunter PGP-04-PRB Turf Rotor, 4" Pop-Up. Adjustable to Full Circle. Pressure Regulating Body.
4.0	Hunter PGP-04-PRB Turf Rotor, 4" Pop-Up. Adjustable to Full Circle. Pressure Regulating Body.
5.0	Hunter PGP-04-PRB Turf Rotor, 4" Pop-Up. Adjustable to Full Circle. Pressure Regulating Body.

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION
	Rain Bird XCZ-100-PRB-LC Wide Flow Drip Control Kit, for Light Commercial Uses. 1" PEB Valve, with 1" Pressure Regulating 40psi Basket Filter. 0.3-20 GPM.
P	Hunter PLD-BV Manual flush/shut off valve, barbed insert. Typically installed in 10" box, with adequate blank tubing to extend valve out of valve box. Use with HDL or other 3/4" dripline.
D	Hunter ECO-ID ECO-ID: 1/2" FPT connection with 12-60 PSI operating pressure. Specify with Hunter SJ swing joint.
	Area to Receive Dripline Rain Bird XFCV-06-18 XFCV On-Surface Landscape Dripline with a Heavy-Duty 3.5 psi Check Valve. 0.6 GPH emitters at 18" O.C. Dripline laterals spaced at 18" apart, with emitters offset for triangular pattern. Great for elevation change. Specify XF insert fittings.

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION
	Rain Bird PEB 1", 1-1/2", 2" Plastic Industrial Valves. Low Flow Operating Capability, Globe Configuration.
	Hunter HQ-44LRC-AW Quick coupler valve, yellow rubber locking cover, red brass and stainless steel, with 1" NPT inlet, 2-piece body. Acme Key with Anti-Rotation Wings.
BF	Apollo Valves 4A207A4F 1-1/2" Reduced pressure principle backflow preventer, inlet size 1-1/2" with union ball valves and SAE testcocks
C	Rain Bird ESP-LXD 50 Station, 2-Wire Decoder based Controller. (1) ESP-LXD 50-Station, Indoor/Outdoor, Plastic Wall-Mount Enclosure.
RF	Rain Bird WR2-RFS Wireless Rain/Freeze Sensor.
G	2-Wire Grounding Point Install as per plan detail and manufacturers instructions.
M	Water Meter 1-1/2" Irrigation Meter 1-1/2" or larger.
	Irrigation Lateral Line: PVC Class 200 SDR 21
	Irrigation Mainline: PVC Class 200 SDR 21
	Pipe Sleeve: PVC Schedule 40

Valve Callout
Valve Number
#" Valve Flow
Valve Size

REFERENCE NOTES SCHEDULE

SYMBOL	DESCRIPTION
1	Irrigation system water source to be a minimum 1-1/2" service line to a minimum 1-1/2" meter. System requirements are 32 gpm at a static pressure of 66 psi. Verify available flow and static pressure prior to construction.
2	Provide and install an HDPE insulated backflow enclosure over the backflow preventer. Install enclosure on a concrete pad as per plan detail and manufacturers instruction.
3	Coordinate the exact location of the controller on the front of the seat wall. Provide 120v 20 amp power to the controller. Install controller as per plan notes, details and manufacturers instructions.
4	2-Wire cable from the controller to the mainline to be installed in 1" SCH 40 PVC conduit installed with a minimum depth of cover of 12".
5	Coordinate the exact location of the Rain Freeze sensor with the owners representative. Install and program as per plan detail and manufacturers instructions.
6	Pipe location is diagrammatic. Install all pipe as per plan notes and details. All pipe within the same trench to be seperated by 3" of clean backfill.
7	Install sprinklers on the outside edge of the grasspave.
8	Lateral supply header for the inline drip tubing. Install as per plan drip layout examples.

MHM

McCarty Holsaple McCarty, Inc.
550 W. Main St., Suite 300
Knoxville, TN 37902
t 865.544.2000
www.mhminc.com

Consultants:

CIVIL ENGINEER:
HUDDLESTON-STEELE ENGINEERING INC.
2112 N.W. BROAD ST.
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Consultant:
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Sheet Description:

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IRRIGATION PLAN

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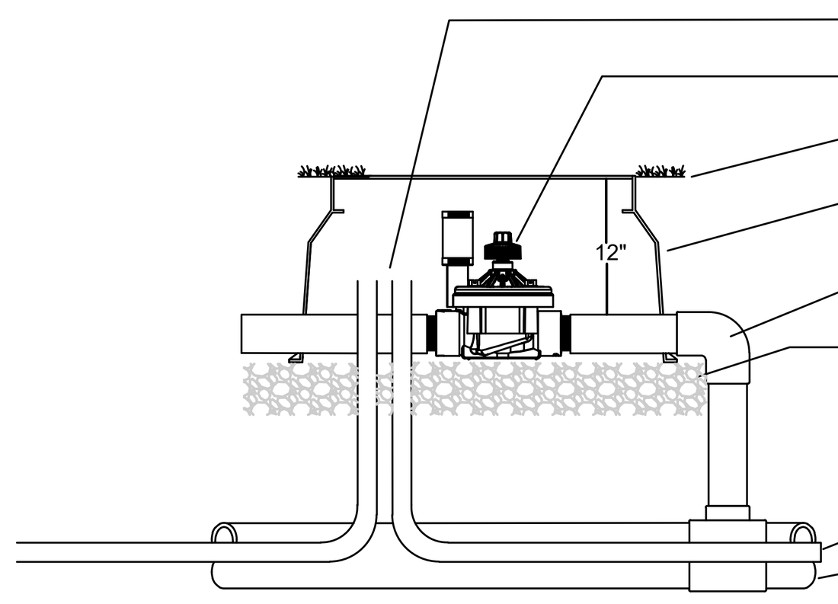
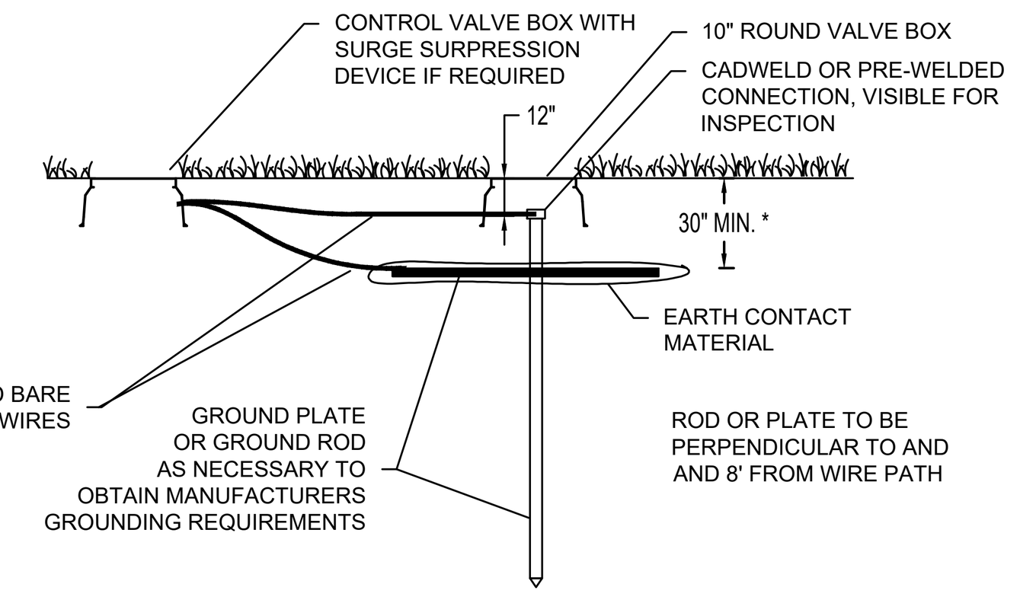


13 IRRIGATION SUPPLY VALVE AND CONTROL WIRE CONDUIT
NTS

SIDE VIEW



14 TWO WIRE GROUNDING POINT DETAIL
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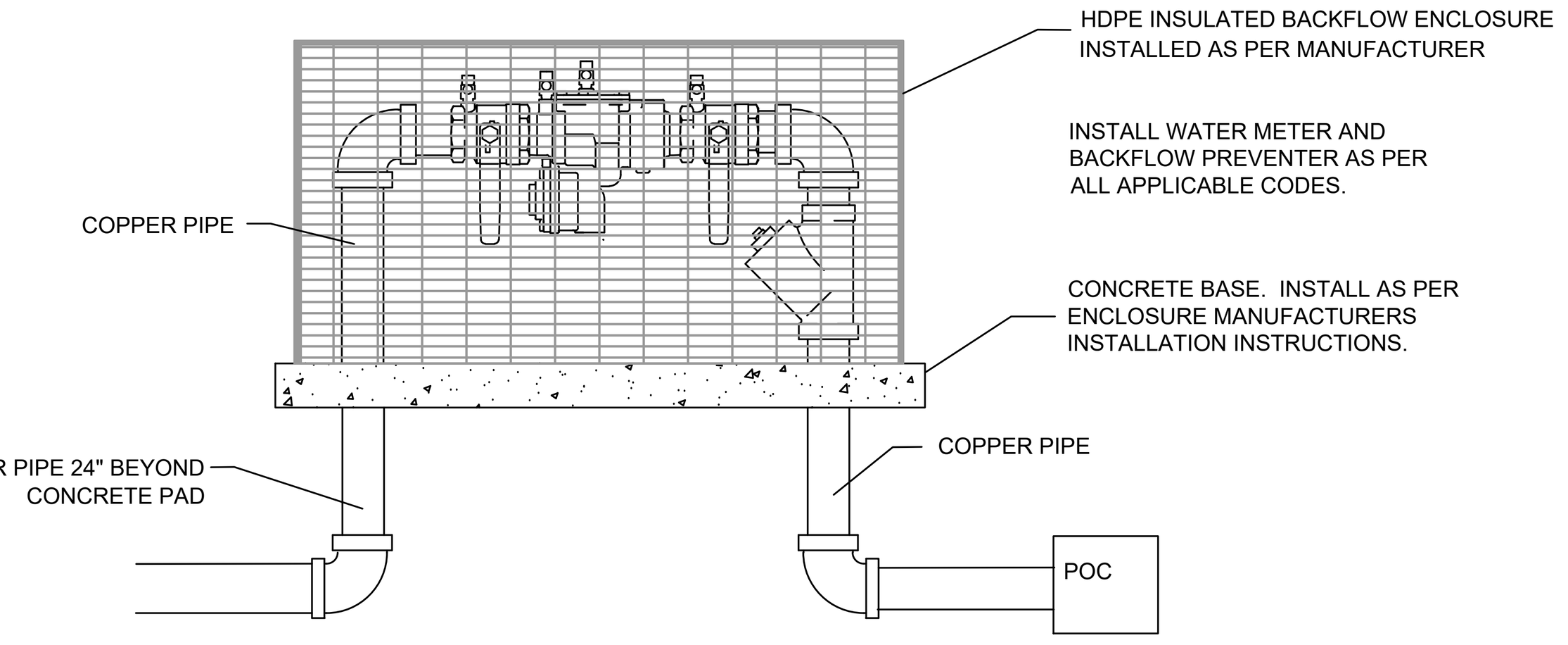

15 RPZ BACKFLOW PREVENTER WITH ENCLOSURE
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Know what's below. Call before you dig.

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Knoxville, TN 37902
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HAINES STRUCTURAL GROUP
800 S. GAY ST., STE 1750
KNOXVILLE TN, 37929
865.329.9920

MECHANICAL & PLUMBING ENGINEER:
FACILITY SYSTEMS CONSULTANTS
713 S. CENTRAL ST., STE 101
KNOXVILLE TN, 37902
865.246.0164

ELECTRICAL ENGINEER:
FACILITY SYSTEMS CONSULTANTS
713 S. CENTRAL ST., STE 101
KNOXVILLE TN, 37902
865.246.0164

Project Information:

21026

MHA Parkside Housing

520 EAST CASTLE STREET,
MURFREESBORO, TN 37130

04/04/2022

Consultant:

RaganSmith

#	ISSUE	DATE

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PIC	M. BUTLER
PM	M. BUTLER
PA	G. TAYLOR
Drawn By:	M. CLARK
Checked By:	M. CLARK

Sheet Description:

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IRRIGATION PLAN

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ABBREVIATIONS LEGEND

ABBREVIATIONS WHEN USED IN COMPOSITION MAY INCLUDE PERIODS FOR CLARIFICATION

A/C	AIR CONDITION(ING)(ED)
AP	ACCESS PANEL
(ACP-)	ACOUSTICAL CEILING PANEL
(ACT-)	ACOUSTICAL CEILING TILE
ADA	AMERICANS W/ DISABILITIES ACT
ADJ	ADJUSTABLE
AFF	ABOVE FINISHED FLOOR
AHU	AIR HANDLING UNIT
ALT	ALTERNATE
ALUM	ALUMINUM
ANOD	ANODIZE(D)
ARCH	ARCHITECT(URAL)
B/B	BACK TO BACK
BD	BOARD
BN	BENCH
BLDG	BUILDING
BLK	BLOCK(ING)
BM	BEAM
BMK	BENCHMARK
BOT	BOTTOM
BOT/	BOTTOM OF
BR	BRICK
BRZ	BRONZE
BUR	BUILT-UP ROOFING
CB	CATCH BASIN
CH	COAT HOOK
CIP	CAST-IN-PLACE
CIRC	CIRCULATION
CJ	CONTROL JOINT
CL	CENTERLINE
CLG	CEILING
CLR	CLEAR / CLEARANCE
CMU	CONCRETE MASONRY UNIT
CO	CLEANOUT
COL	COLUMN
CONC	CONCRETE
CONF	CONFERENCE
CONN	CONNECTION
CONST	CONSTRUCTION
CONT	CONTINUOUS
COORD	COORDINATE
CORR	CORRIDOR
CP/CI	CONTRACTOR PURCHASED, CONTRACTOR INSTALLED
CTR	CENTER
CU	CUBIC
CW	CURTAIN WALL
D	DEPTH
DBL	DOUBLE
DEG	DEGREE
DEMO	DEMOLISH, DEMOLITION
DEPT	DEPARTMENT
DF	DRINKING FOUNTAIN
DIA	DIAMETER
DIAG	DIAGONAL
DIM	DIMENSION
DISP	DISPENSER
DIV	DIVISION
DN	DOWN
DR	DOOR
DS	DOWNSPOUT
DW	DISHWASHER
DWG	DRAWING
DWV	DRAINAGE, WASTE AND VENT
E	EAST
EA	EACH
EIFS	EXTERIOR INSULATION AND FINISH SYSTEM
EJ	EXPANSION JOINT
EL	ELEVATION
ELEC	ELECTRICAL
ELEV	ELEVATOR
EMER	EMERGENCY
EOS	EDGE OF SLAB
EQ	EQUAL, EQUIVALENT
EQUIP	EQUIPMENT
ETC	ETCETERA
ETR	EXISTING TO REMAIN
EXIST	EXISTING
EXP	EXPANSION
EXT	EXTERIOR, EXTERNAL
F/	FACE OF
F/F	FACE TO FACE
FA	FIRE ALARM
FABR	FABRICATE(D)
FC	FIRE CABINET
FD	FLOOR DRAIN
FDTN	FOUNDATION
FE	FIRE EXTINGUISHER
FEC	FIRE EXTINGUISHER CABINET
FF	FINISHED FLOOR
FH	FIRE HYDRANT
FHC	FIRE HOSE CABINET
FIN	FINISH(ED)
FIXT	FIXTURE
FLASH	FLASHING
FLEX	FLEXIBLE
FLR	FLOOR, FLOORING
FO	FINISHED OPENING
FRTW	FIRE RETARDANT (WOOD)
FT	FEET (FOOT)
FTG	FOOTING
FURN	FURNISH, FURNITURE
FURR	FURRING
GA	GAUGE
GALV	GALVANIZED
GB	GRAB BAR
GEN	GENERAL
GFRC	GLASS FIBER REINFORCED CONCRETE
GFRG	GLASS FIBER REINFORCED GYPSUM
GL	GLASS
GD	GROUND
GLULAM	GLUE LAMINATED WOOD
GR	GRADE
GSU	GLAZED STRUCTURAL UNIT
GT	GREASE TRAP
H	HIGH
HB	HOSE BIB
HC	HOLLOW CORE
HDF	HIGH DENSITY FIBERBOARD
HDWR	HARDWARE
HDWD	HARDWOOD
HM	HOLLOW METAL
HO	HOLD OPEN
HORIZ	HORIZONTAL
HP	HIGH POINT
HR	HOUR
HPC	HIGH PERFORMANCE COATING
HRL	HANDRAILS
HT	HEIGHT
HTG	HEATING
HTR	HEATER
HVAC	HEATING, VENTILATION AIR CONDITIONING
HW	HOT WATER
HYD	HYDRANT
ID	INSIDE DIAMETER
IN	INCH(ES)
INCL	INCLUDE, INCLUDING
IINSUL	INSULATION
INT	INTERIOR
INTERM	INTERMEDIATE
INV	INVERT
JAN	JANITOR
JT	JOINT
KD	KNOCK DOWN
L	LONG, LENGTH
LAM	LAMINATE(D)
LAV	LAVATORY
LF	LINEAR FOOR (FEET)
LH	LEFT HAND
LKR	LOCKER
LP	LOW POINT
LT	LIGHT(S)
LWC	LIGHT WEIGHT CONCRETE
MACH	MACHINE
MAINT	MAINTENANCE
MAS	MASONRY
MATL	MATERIAL
MAX	MAXIMUM
MDO	MEDIUM DENSITY OVERLAY
MDF	MEDIUM DENSITY FIBERBOARD
MECH	MECHANICAL
MEMB	MEMBRANE
MEZZ	MEZZANINE
MEP	MECHANICAL, ELECTRICAL, PLUMBING
MFR	MANUFACTURER
MH	MANHOLE
MIN	MINIMUM
MIRR	MIRROR
MISC	MISCELLANEOUS
MKR BD	MARKER BOARD
MO	MASONRY OPENING
MTD	MOUNTED
MTG	MEETING
MTL	METAL
MULL	MULLION
MVBL	MOVABLE
N	NORTH
N/A	NOT APPLICABLE
NIC	NOT IN CONTRACT
NO	NUMBER
NOM	NOMINAL
NTS	NOT TO SCALE
OA	OVERALL
OC	ON CENTER
OD	OUTSIDE DIAMETER
OF/CI	OWNER FURNISHED, CONTRACTOR INSTALLED
OFD	OVERFLOW DRAIN
OFF	OFFICE
OH	OVERHEAD
OP/CI	OWNER PURCHASED, CONTRACTOR INSTALLED
OP/OI	OWNER PURCHASED, OWNER INSTALLED
OPH	OPPOSITE HAND
OPNG	OPENING
OPP	OPPOSITE
PA	PUBLIC ADDRESS
PB	PARTICLE BOARD
PC	PRE-CAST
PCC	PRE-CAST CONCRETE
PERF	PERFORATED
PERP	PERPINDULAR
PL	PLATE
PLAM	PLASTIC LAMINATE
PLAS	PLASTER
PLBG	PLUMBING
PLY	PLYWOOD
P	PAINT(ED)
PNL	PANEL
POL	POLISHED
PREFAB	PREFABRICATED
PRKG	PARKING
PROJ	PROJECT
PS	PROJECTION SCREEN
PROP	PROPERTY
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PT	POINT
PTD	PAPER TOWEL DISPENSER
PTN	PARTITION
PVG	PAVING
QTY	QUANTITY
R	RADIUS
RI	RISER
RCP	REFLECTED CEILING PLAN
REC	RECESSED
REF	REFERENCE
REFR	REFRIGERATOR
REINF	REINFORCING
REQD	REQUIRED
RESIL	RESILIENT
REV	REVISION
RFG	ROOFING
RH	RIGHT HAND
RO	ROUGH OPENING
RM	ROOM
ROW	RIGHT OF WAY
RUB	RUBBER
RVL	REVEAL
S	SOUTH
SA	SOUND ATTENUATION
SAN	SANITARY
SC	SOLID CORE
SCHED	SCHEDULE
SECT	SECTION
SF	SQUARE FOOT (FEET)
SIGN	SIGNAGE
SGL	SINGLE
SHR	SHOWER
SHT	SHEET
SIM	SIMILAR
SP	STANDPIPE
SPEC	SPECIFICATION
SPKR	SPEAKER
SQ	SQUARE
SS	SERVICE SINK
SST	STAINLESS STEEL
STC	SOUND TRANSMISSION CLASS
STD	STANDARD
STL	STEEL
STOR	STORAGE
STRUCT	STRUCTURE, STRUCTURAL
SUSP	SUSPENDED
TR	TREAD
T/	TOP OF
T/B	TOP AND BOTTOM
TG	TONGUE AND GROOVE
TEL	TELEPHONE
TEMP	TEMPORARY
THK	THICK, THICKNESS
TKBD	TACKBOARD
TOPO	TOPOGRAPHY, TOPOGRAPHIC
TLT	TOILET
TS	TUBE STEEL
TV	TELEVISION
TYP	TYPICAL
U	HEAT TRANSFER COEFFICIENT
UC	UNDER CABINET
UH	UNIT HEATER
UL	UNDERWRITER'S LABORATORIES
UNO	UNLESS NOTED OTHERWISE
UTIL	UTILITY
VERT	VERTICAL
VIF	VERIFY IN FIELD
VOL	VOLUME
W	WEST
W/	WITH
W/O	WITHOUT
WC	WATER CLOSET
WD	WOOD
WF	WIDE FLANGE
WH	WATER HEATER
WM	WIRE MESH
WRB	WATER RESISTIVE AIR BARRIER
WP	WATERPROOFING
WT	WEIGHT
WWF	WELDED WIRE FABRIC
YD	YARD
ZN	ZINC

INTERIOR ABBREVIATIONS

ACP	SOUND-ABSORBING CEILING UNITS
APC	ACOUSTIC PANEL CEILINGS (LAY-IN)
ATC	ACOUSTIC TILE CEILINGS
AWP	SOUND-ABSORBING WALL UNITS
BPG	BACK PAINTED GLASS
CFT	CORK FLOORING
CG	CORNER GUARDS
CPL	CHEMICAL RESISTANT PLAM
CPT	CARPET TILE
CT	CERAMIC TILE
CTZ	PORTLAND CEMENT TERRAZZO
CUR	CURTAIN
CVT	CONDUCTIVE VINYL TILE
DRP	DRAPERY
DSB	DIMENSION STONE BASE
DST	DIMENSION STONE TILE
FC	FILE CABINET
FSF	FLUID-APPLIED SPORTS FLOORING
FWC	FABRIC-WRAPPED CEILING PANEL
FWP	FABRIC WRAPPED PANELS
GCM	GLAZED CERAMIC MOSAIC TILE
GQT	GLAZED QUARRY TILE
GWT	GLAZED WALL TILE
GYP	GYPSUM
LMC	LINEAR METAL CEILINGS
LP	LAMINATE CLAD PANELING
LS	LINOLEUM SHEET
LSG	LATEX SEMI-GLOSS
LT	LINOLEUM TILE
LVT	LUXURY VINYL TILE
MG	MIRRORED GLASS
MPC	METAL PANEL CEILINGS
(P-)	PAINT COLOR
PLAM	PLASTIC LAMINATE
PWF	PARQUET WOOD FLOORING
(PT-)	PORCELAIN TILE
RAF	RESILIENT ATHLETIC FLOORING
(RB-)	RUBBER BASE
(RS-)	ROLLER SHADES
SDT	STATIC-DISSIPATIVE TILE
SF	STONE FLOORING
SFB	STONE FLOORING BASE
SFC	STRETCHED-FABRIC CEILING
SFW	STRETCHED-FABRIC WALL
SSM	SOLID SURFACE MATERIAL
STH	STONE THRESHOLD
SV	SHEET VINYL FLOORING
SVT	SOLID VINYL FLOOR TILE
VB	VINYL BASE
VCT	VINYL COMPOSITION TILE
VDB	VISUAL DISPLAY BOARDS
VLB	VERTICAL LOUVER BLINDS
VWC	VINYL WALL COVERINGS
WAF	WOOD ATHLETIC FLOORING
WB	WOOD BASE
WD	WOOD
WG	WALL GUARDS
WP	WOOD PANELING
WV	WOOD VENEER LAMINATE
WWC	WOOD-VENEER WALL COVERINGS

MATERIALS

- COMPACTED FILL EARTH WORK
- UNDISTURBED SOIL
- GRAVEL, POROUS FILL
- SAND
- ASPHALT
- STRUCTURAL CONCRETE
- LIGHTWEIGHT CONCRETE
- TERRAZZO
- CUT STONE
- CAST STONE
- BRICK, COMMON FACE
- BRICK, GLAZED
- CONCRETE MASONRY UNIT
- STRUCTURAL CLAY TILE
- STEEL
- ALUMINUM/ORNAMENTAL METAL
- CONTINUOUS WOOD FRAMING
- BLOCKING OR SHIM
- FINISH WOODWORK
- PLYWOOD
- PARTICLE BOARD
- GYPSUM WALLBOARD
- WATERPROOFING/ DAMPROOFING/ AIR/ MOISTURE BARRIER
- RIGID INSULATION
- BATT INSULATION
- CARPETING (LARGE SCALE)
- RESILIENT FLOORING
- PLASTIC LAMINATE
- LEAD-LINED GYPSUM WALLBOARD
- GLASS
- GLASS BLOCK
- ACOUSTICAL CEILING BOARD
- WOOD FLOORING
- SPRAY-ON FIREPROOFING OR INSULATION
- EXTERIOR SHEATHING
- SOLID SURFACING
- EIFS
- PLASTER STUCCO W/ METAL LATH

SYMBOLS LEGEND

SHEET NUMBER

A-121
SHEET SEQUENCE NUMBER
SHEET TYPE DESIGNATOR
DISCIPLINE DESIGNATOR
DASH FOR DISCIPLINE 2ND DIGIT

NORTH ARROW

TRUE NORTH

VERTICAL ELEVATIONS

LEVEL XX
10'-0"
EL. +X'-X"
TOS
+X'-X"
VERTICAL SPOT ELEVATION
TOS: TOP OF STEEL
TOM: TOP OF MASONRY

MATCH LINE

MATCHLINE
A24 / A-101
SHEET NUMBER ON WHICH CONTINUATION IS FOUND

KEYNOTE TAGS

A2 — PLAN KEYED NOTE
00 00 00 DESCRIPTION — SPECIFICATION KEYNOTE

ROOM NAME AND NUMBER

ROOM NAME
A101A
150 SF

FINISH MATERIAL TAGS

XXX — FINISH MATERIAL TAG
XXX / XXX — FINISHED FLOORING TRANSITION

ROOM FINISH TAG

ROOM NAME
XXX-# | XX-# | XX-#
BASE FINISH
FLOOR FINISH
WALL FINISH

AREA NAME AND OCCUPANCY

AREA NAME — OCCUPANCY TYPE
1500 SF / OCC. SF / XXX — TOTAL OCCUPANTS
OCC. LOAD FACTOR
TOTAL OCC. AREA

ACCENT FINISH SYMBOLS

PWT-1 — ACCENT WALL
PWT-1 | PB-1 — ACCENT WALL & BASE

DOOR TAGS

301A — USE ROOM NUMBER WITH DOOR MARK
999 — OCCUPANT LOAD
999 — MAX. OCCUPANT LOAD

CASEWORK TAG / DIMENSION

A1 — CABINET TYPE
36"W — CABINET WIDTH
36"
A1

OPENING TYPE SYMBOL

XX — INTERIOR OPENING TAG (NUMERIC)
XX — EXTERIOR OPENING TAG (ALPHA)

GLAZING PANEL TAG

GL-X — GLAZING TYPE

DIMENSIONS

XX'-XX"
SUFFIX

SUFFIXES
CLEAR: CLEAR EXACT DIMENSION
RO: ROUGH OPENING
MO: MASONRY OPENING

GRAPHIC SCALE

0 1/2" 1" 2"

SHEET NUMBER

A24 VIEW NAME
SCALE DRAWING NOTES

DRAWING REVISION

1

SPOT ELEVATIONS/COORDINATES

+X'-X" — HORIZONTAL SPOT ELEVATION
E/W XX'-XX"
N/S XX'-XX" — SPOT COORDINATES

BREAK LINE

PROPERTY LINE

N 90 00' 00" E
Distance

PROJECT SCOPE BOUNDARY

CONSTRUCTION JOINTS

EJ
CJ

EQUIPMENT | FURNITURE TAG

EQ-XXXX
FF-XXXX

EXIT SIGN WITH DIRECTION

WALL MOUNTED
CEILING MOUNTED

FIRE EXTINGUISHER CABINET

WALL MTD — FE
RECESSED — FEC (R)
SEMI-RECESSED — FEC (SR)
SURFACE MTD — FEC (S)

TOILET ACCESSORY TAG

TA1 — SPECIALTY EQUIPMENT TAG, REFER TO SPECS

PARTITION TAG

A10
FIRE RATING / PARTITION HEIGHT
FRAMING SIZE
PARTITION TYPE

ITEMS NOT IN SCOPE

AREA NOT IN SCOPE
OWNER FURNISHED EQUIPMENT / ITEM

ROOF DRAIN

RD OD
OVERFLOW
ROOF DRAIN

CEILING TAG

XXX-X — CEILING MATERIAL
CEILING HEIGHT
+X'-X" — SOFFIT/BULKHEAD HEIGHT

WORK POINTS

WP-#
DIST.
DIST.

PROJECT GENERAL NOTES

OWNER COORDINATION

1. THE CONTRACTOR SHALL MAKE ALL ARRANGEMENTS WITH THE OWNER PERTAINING TO THE USE OF THE BUILDING ENTRANCES, ELEVATORS, WORKING HOURS, NOISY WORK, ACCESS TO ADJACENT SPACES, SECURITY, OWNERSHIP OF SALVAGED ITEMS AND OTHER ITEMS DEEMED TO BE OF MUTUAL INTEREST.
2. KEEP DRIVEWAYS, DOCKS AND ENTRANCES SERVING THE PREMISES CLEAR AND AVAILABLE TO THE OWNER AND THE OWNER'S TENANTS AND EMPLOYEES AT ALL TIMES. DO NOT USE THESE AREAS FOR PARKING OR STORAGE OF MATERIALS. SCHEDULE DELIVERIES TO MINIMIZE SPACE AND TIME REQUIREMENTS FOR STORAGE OF MATERIAL AND EQUIPMENT ON SITE.
3. AVOID INTERRUPTION OF SERVICES (ELECTRICAL, SIGNAL, MECHANICAL, FIRE PROTECTION, LIFE SAFETY, PLUMBING, ETC.) TO OCCUPIED AREAS OF THE BUILDING DURING CONSTRUCTION. IF SERVICE INTERRUPTIONS ARE UNAVOIDABLE, THE CONTRACTOR SHALL NOTIFY AND OBTAIN APPROVAL FROM THE OWNER AND TENANT AT LEAST 24 HOURS PRIOR TO PROCEEDING SUCH WORK.
4. ALL WORK SHALL CONFORM TO ALL INDUSTRY AND MANUFACTURERS' PUBLISHED STANDARDS AND THE OWNER'S REQUIREMENTS FOR QUALITY OF MATERIALS AND WORKMANSHIP AS WELL AS ALL REQUIREMENTS IN THE DOCUMENTS. ANY CONFLICTING REQUIREMENTS OF THE SOURCES LISTED ABOVE SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT BEFORE PROCEEDING WITH THE WORK.
5. PENETRATIONS IN THE EXTERIOR BUILDING WALL ARE NOT ALLOWED, INCLUDING THOSE FOR OUTLETS AND BLOCKING, UNLESS EXPRESSLY ALLOWED BY THE OWNER.
6. APPROVE FLOOR OUTLET LOCATIONS WITH ARCHITECT AND OWNER PRIOR TO CORE DRILLING.

PERMITS AND SAFETY

1. THE CONTRACTOR FOR THE PROJECT SHALL BE RESPONSIBLE FOR OBTAINING ALL REQUIRED BUILDING PERMITS.
2. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO ENSURE THE SAFETY OF THE PUBLIC AND THE WORKMEN ON THE JOB AND TO PREVENT ACCIDENTS OR INJURY TO ANY PERSONS ON, ABOUT, OR ADJACENT TO THE PREMISES WHERE THE WORK IS BEING PERFORMED. THE CONTRACTOR SHALL COMPLY WITH ALL OF THE LAWS, ORDINANCES, CODES, RULES AND REGULATIONS RELATIVE TO SAFETY AND THE PREVENTION OF ACCIDENTS.
3. THE CONTRACTOR SHALL PROVIDE TEMPORARY WALLS, AS REQUIRED, TO ENCLOSE AND BARRICADE FOR SAFETY, AND FOR LOCALIZING AND MINIMIZING DUST AND NOISE FROM ANY OPERATIONS AND TO EFFECTIVELY SEPARATE WORK AREA FROM OTHER OCCUPIED AREAS OF THE BUILDING.
4. PROVIDE ALL NECESSARY TEMPORARY POWER, LIGHTING, FIRE PROTECTION, ETC, AS REQUIRED DURING CONSTRUCTION.
5. DO NOT OBSTRUCT ACCESS TO EXISTING EXITS OR REDUCE THE WIDTH OF EXIT ACCESS CORRIDORS AND HALLWAYS.

CONSTRUCTION COORDINATION

1. THE CONTRACTOR IS RESPONSIBLE FOR THE COORDINATION OF ALL PARTS OF THE WORK STATED OR IMPLIED SO THAT NO WORK IS LEFT IN AN UNFINISHED OR INCOMPLETE CONDITION.
2. WHERE SPECIAL COORDINATION IS NECESSARY, PREPARE MEMORANDA FOR DISTRIBUTION TO EACH PARTY INVOLVED OUTLINING SPECIAL PROCEDURES REQUIRED FOR COORDINATION. INCLUDE SUCH ITEMS AS REQUIRED NOTICES, REPORTS, AND ATTENDANCE AT MEETINGS.
3. COORDINATE CONSTRUCTION ACTIVITIES INDICATED ON CONTRACT DOCUMENTS TO ASSURE EFFICIENT, ORDERLY, COMPLETE AND OPERATIONAL INSTALLATIONS OF EACH PART OF THE WORK. COORDINATE CONSTRUCTION OPERATIONS THAT ARE DEPENDENT UPON EACH OTHER FOR PROPER INSTALLATION, CONNECTION, AND OPERATION. WHERE MATERIALS APPLIED TO, OR ARE IN DIRECT CONTACT WITH, WORK INSTALLED BY ANOTHER SUBCONTRACTOR, COMMENCEMENT OF WORK IMPLIES ACCECPTANCE OF THE SUBSTRATE AS SUITABLE FOR THE APPLICATION INTENDED.
4. CONFINE OPERATIONS TO AREAS WITHIN CONTRACT LIMITS INDICATED. PORTIONS OF THE SITE BEYOND AREAS IN WHICH CONSTRUCTION IS INDICATED ARE NOT TO BE DISTURBED.
5. WHERE AVAILABILITY OF SPACE IS LIMITED, COORDINATE INSTALLATION OF DIFFERENT COMPONENTS TO ASSURE MAXIMUM ACCESSIBILITY OF REQUIRED MAINTENANCE, SERVICE AND REPAIR.
6. COORDINATE TRADES TO PATCH FINISHES THAT ARE DAMAGED AS A RESULT OF CUTTING IN OF WORK.
7. COORDINATE INSTALLATION OF DIFFUSERS, SPEAKERS, SPRINKLER HEADS, AND ACCESS PANELS WITH LIGHTING LAYOUT. REPORT ANY CONFLICTS TO THE ARCHITECT PRIOR TO INSTALLATION.
8. EXIT SIGNS AND SMOKE DETECTORS LOCATED IN CEILINGS SHALL BE POSITIONED AS REQUIRED BY THE AUTHORITY HAVING JURISDICTION.

CONTRACT DOCUMENTS

1. DRAWINGS AND SPECIFICATIONS ARE COMPLEMENTARY AND ARE INTENDED TO INCLUDE OR IMPLY ALL ITEMS REQUIRED FOR THE PROPER EXECUTION AND COMPLETION OF THE WORK.
2. *WHERE A DETAIL IS SHOWN OR NOTE IS DESCRIBED FOR ONE CONDITION, IT SHALL BE ASSUMED TO APPLY TO ALL LIKE OR SIMILAR CONDITIONS, EVEN THOUGH NOT SPECIFICALLY NOTED AS SUCH ON THE DRAWINGS.*
3. REFER TO COMPLETE SET OF ISSUED CONTRACT DOCUMENTS FOR APPLICABLE NOTES, ABBREVIATIONS, AND SYMBOLS. GENERAL NOTES APPEAR ON VARIOUS DRAWINGS FOR DIFFERENT SYSTEMS AND MATERIALS. REVIEW ALL SHEETS AND APPLY NOTES TO RELATED BUILDING COMPONENTS.
4. THE CONTRACTOR SHALL NOTIFY THE ARCHITECT IN WRITING OF ANY OMISSIONS, DISCREPANCIES, AND/OR CONFLICTS IN THE DRAWINGS AND SPECIFICATIONS BEFORE SUBMITTING HIS BID PRICE. THE ARCHITECT WILL CLARIFY THE DOCUMENTS IN AN ADDENDUM. IF ANY ADDENDUM IS NOT ISSUED BEFORE THE BID/PRICE IS SUBMITTED, THE CONTRACTOR'S BID/PRICE SHALL BE BASED ON THE HIGHER QUANTITY AND/OR HIGH QUALITY AND SHALL BE SO NOTED IN HIS BID/PRICE.
5. DO NOT SCALE DRAWINGS. DIMENSIONS GOVERN. IF DIMENSIONS ARE IN QUESTION, OBTAIN CLARIFICATION FROM THE ARCHITECT BEFORE CONTINUING.
6. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS, BENCHMARKS, WORKPOINTS, SPOT ELEVATIONS AND CONDITIONS SHOWN ON THE DRAWINGS AT THE JOB SITE AND SHALL NOTIFY THE ARCHITECT OF ANY OMISSIONS, DISCREPANCIES, AND/OR CONFLICTS BEFORE PROCEEDING WITH THE PROJECT.
7. LARGE SCALE DRAWINGS GOVERN OVER SMALL SCALE DRAWINGS.
8. DIMENSIONS SHOWN ON THE FLOOR PLANS FOR NEW CONSTRUCTION ARE TO THE FACE OF FINISH OF INTERIOR WALLS, TO CENTER LINE OF COLUMNS AND TO FACE OF CONCRETE OR MASONRY WALLS, UNLESS OTHERWISE INDICATED. DIMENSIONS IN RENOVATED AREAS ARE FROM FINISH FACE OF EXISTING WALLS AND TO FINISH FACE OF NEW STUD WALLS, UNLESS OTHERWISE INDICATED.
9. FINISH FLOOR ELEVATIONS ARE TO TOP OF CONCRETE SLAB UNLESS OTHERWISE NOTED.
10. WHERE MOUNTING HEIGHTS ARE NOT INDICATED, INSTALL INDIVIDUAL COMPONENTS AT STANDARD MOUNTING HEIGHTS RECOGNIZED WITHIN THE INDUSTRY FOR THE PARTICULAR APPLICATION INDICATED AND TO CURRENT ADA/ACCESSIBILITY STANDARDS. REFER QUESTIONABLE MOUNTING HEIGHT DECISIONS TO THE ARCHITECT FOR FINAL DECISION.
11. FIELD MEASURE AND CONFIRM DIMENSIONS FOR O.F./C.I. EQUIPMENT, FURNISHINGS & ARCHITECTURAL WOODWORK (MILLWORK).
12. LOCATE ACCESS PANELS AS INDICATED ON DRAWINGS. FOR ACCESS PANELS NOT SHOWN BUT REQUIRED BY PROVISIONS OF THE CONTRACT DOCUMENTS, LOCATED IN ACCORDANCE WITH APPLICABLE CODES. LOCATE EQUIPMENT AND VALVES TO MINIMIZE NEED FOR ACCESS PANELS. SUBMIT PROPOSED LOCATIONS TO THE ARCHITECT FOR REVIEW AND ACCEPTANCE PRIOR TO INSTALLATION.
13. EXIT SIGNS AND SMOKE DETECTORS LOCATED IN HARD CEILINGS SHALL BE POSITIONED AS REQUIRED BY THE AUTHORITY HAVING JURISDICTION AND SHALL BE CENTERED IN CORRIDORS AND LOCATED A DISTANCE OF 1'-0" FROM THE WALL TO THE CENTER OF THE FIXTURE UNLESS OTHERWISE NOTED.
14. EQUIPMENT AND FURNITURE SHOWN ARE NOT INCLUDED IN CONTRACT, UNLESS OTHERWISE NOTED.

CONSTRUCTION

1. OPENINGS IN A RATED WALL, FLOOR, CEILING AND ROOF ASSEMBLIES SHALL BE SEALED WITH A FIRE RESISTANT JOINT SYSTEMS OR PROTECTED WITH A FIRE RATED CHASE.
2. MAINTAIN THE FIRE RATING OF CONSTRUCTION AROUND CABINETS, PANELS, AND BOXES RECESSED IN RATED WALL, FLOOR, AND CEILING ASSEMBLIES.
3. PARTITION TYPES AND FIRE RESISTIVE RATINGS INDICATED ARE TO BE CONTINUOUS FOR THE LENGTH AND HEIGHT OF A PARTITION.
4. LEVEL FLOOR THAT EXCEED 1/4" VARIANCE IN A 10'-0" RADIUS..
5. DO NOT HANG (SUPPORT) ANY ITEMS FROM METAL ROOF DECK. IT IS ACCEPTABLE TO ATTACH, I.E. CEILING SYSTEM WIRE HANGERS FROM JOISTS AND/ OR BEAMS.
6. PROVIDE NON-COMBUSTIBLE STIFFENERS, BRACING, BACKING PLATES AND BLOCKING REQUIRED FOR SECURE INSTALLATION OF TOILET PARTITIONS, DOORS AND DOOR HARDWARE INCLUDING WALL-MOUNTED DOOR STOPS, HANDRAILS, WALL-MOUNTED SHELVES, WALL MOUNTED TV MONITORS, VISUAL DISPLAY BOARDS, MISCELLANEOUS WALL-MOUNTED EQUIPMENT, AND SUSPENDED MECHANICAL AND ELECTRICAL EQUIPMENT.
7. ISOLATE DISSIMILAR METALS TO PREVENT GALVANIC CORROSION.
8. DO NOT INSTALL OUTLET OR J-BOXES BACK-TO-BACK ON OPPOSITE SIDES OF THE WALL. BOXES MUST BE SEPARATED BY A STUD (24" MIN).
9. ALL EXTERIOR STEEL HANDRAILS, GUARDRAILS, AND BOLLARDS SHALL BE GALVANIZED AND PAINTED, UNLESS OTHERWISE NOTED.
10. PIPING LOCATED ABOVE GRADE AND INSIDE THE BUILDING SHALL BE CONCEALED IN FURRED SPACES WITH THE EXCEPTION OF PIPING IN STAIRWAYS, EQUIPMENT ROOMS AND POWERHOUSE. COORDINATE WITH OTHER TRADES TO PROVIDE FURRING FOR PIPING INSTALLED IN FINISHED AREAS.
11. ACCESSORIES SUCH AS GRAB BARS, TOWEL BARS, PAPER DISPENSERS AND SOAP DISHES INSTALLED WITHIN 2' OF A URINAL, WATER CLOSET, SINK OR LAVATORY SHALL BE MOISTURE SEALED.
12. COORDINATE LOCATION OF SEALANT AND COMPATIBILITY OF SEALANTS WITH ADJACENT WORK, INCLUDING MATERIALS AND OTHER CONTIGUOUS SEALANTS.
13. SEALANTS EXPOSED TO VIEW SHALL BE CUSTOM COLOR AS SELECTED BY THE ARCHITECT.
14. GANG MULTIPLE SWITCHES TOGETHER INTO ONE BOX WITH A SINGLE COVER PLATE WHENEVER POSSIBLE. MULTIPLE SWITCHES, WHICH CANNOT BE GANGED TOGETHER IN THE SAME BOX, SHALL BE LOCATED S CLOSER TOGETHER AS POSSIBLE AND MOUNTED AT THE SAME HEIGHT.
15. CAULK FLOOR AND WALL OUTLETS WITH AN ACOUSTIC SEALANT.
16. CAULK AT JUNCTURE OF INTERIOR FACES OF DOOR FRAMES, VIEW WINDOW FRAMES, EXTERIOR WINDOW FRAMES, AND CABINET WORK WITH ADJACENT MATERIALS.

EXISTING AND COMPLETED WORK

1. CLEAN AND PROTECT CONSTRUCTION IN PROGRESS AND ADJOINING MATERIALS IN PLACE. APPLY PROTECTIVE COVERING WHERE REQUIRED TO ENSURE PROTECTION FROM DAMAGE OR DETERIORATION. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO ALL EXISTING CONDITIONS AND COMPLETED WORK WHILE FULFILLING THE OBLIGATIONS OF THIS CONTRACT.
2. CLEAN AND MAINTAIN COMPLETED CONSTRUCTION AS FREQUENTLY AS NECESSARY THROUGH THE DURATION OF THE CONSTRUCTION PERIOD.
3. WHERE NEW GYPSUM BOARD PARTITIONS ARE A CONTINUATION OF AN EXISTING PARTITION OR COLUMN ENCASEMENT, THE FACE OF THE NEW GYPSUM BOARD SHALL BE ALIGNED WITH THE FACE OF THE EXISTING SURFACE. WHERE A ONE HOUR PARTITION IS SHOWN AS A CONTINUATION OF A TWO-HOUR PARTITION OR COLUMN ENCASEMENT, THE FACE OF THE GYPSUM BOARD SHALL BE OFFSET AS REQUIRED TO PROVIDE FACE ALIGNMENT OFGYPSUM BOARD ON BOTH SIDES.

MHM

McCarty Holsaple McCarty, Inc.
550 W. Main St., Suite 300
Knoxville, TN 37902
t 865.544.2000
www.mhminc.com

Consultants:

CIVIL ENGINEER:
HUDDLESTON-STEELE ENGINEERING INC.
2112 N.W. BROAD ST.
MURFREESBORO, TN 37129
615.893.4084

LANDSCAPE ARCHITECT:
RAGAN SMITH
100 E. VINE ST., STE 200
MURFREESBORO, TN 37130
615.546.6050

STRUCTURAL ENGINEER:
HAINES STRUCTURAL GROUP
800 S. GAY ST., STE 1750
KNOXVILLE TN, 37929
865.329.9920

MECHANICAL & PLUMBING ENGINEER:
FACILITY SYSTEMS CONSULTANTS
713 S. CENTRAL ST., STE 101
KNOXVILLE TN, 37902
865.246.0164

ELECTRICAL ENGINEER:
FACILITY SYSTEMS CONSULTANTS
713 S. CENTRAL ST., STE 101
KNOXVILLE TN, 37902
865.246.0164

Project Information:

21026

MHA Parkside Housing
520 EAST CASTLE STREET,
MURFREESBORO, TN 37130

Seal:

Consultant:

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Issue Date:	04/04/2022
PIC	M. BUTLER
PM	M. BUTLER
PA	G. TAYLOR
Drawn By:	A. MONTGOMERY
Checked By:	J. BRADLEY

Sheet Description:

A-001

ARCHITECTURAL NOTES, SYMBOLS AND LEGEND

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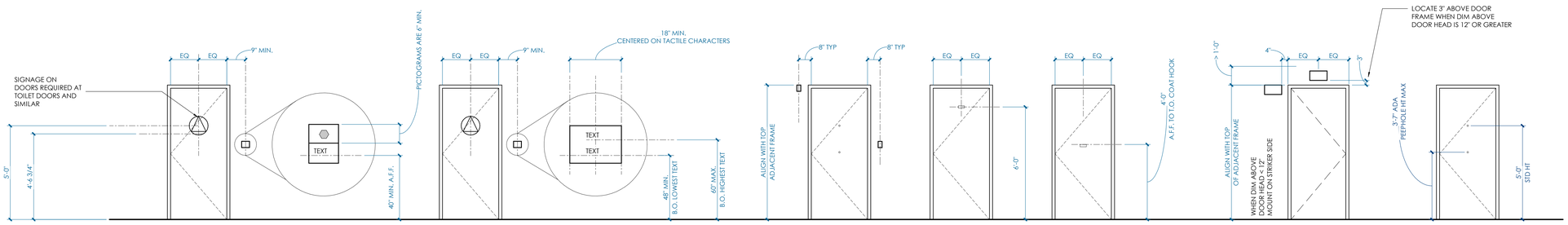
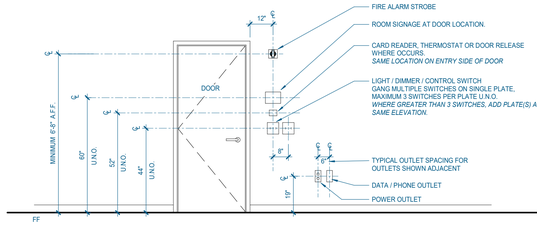
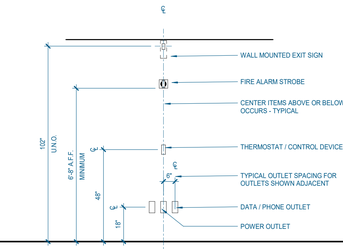


GENERAL MOUNTING HEIGHTS

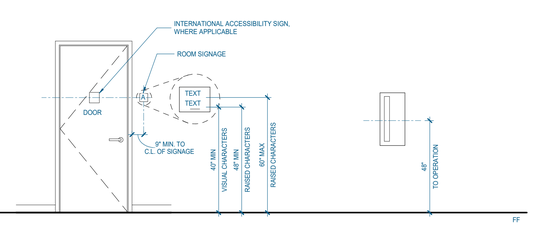
WALL HOSTED DEVICE NOTES:
WALL OUTLETS AND DEVICES ARE TO ALIGN VERTICALLY AS INDICATED IN MOUNTING DIAGRAM.



TYPICAL MOUNTING HEIGHTS @ DOOR



WALL/CORRIDOR CONDITION



TYPICAL ROOM SIGNAGE

NOTE: ALL SIGNS SHALL HAVE A CONTRAST OF 70% MIN. BASED ON THE LIGHT REFLECTANCE VALUE.

FIRE EXTINGUISHER CAB./ FIRE HOSE CAB.

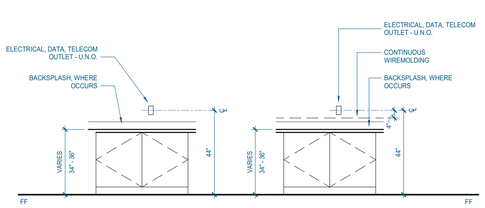
TOILET / SHOWER ACCESSORIES TYPE LEGEND

Type Mark	Type Comments
GB-1	42" HORIZONTAL GRAB BAR
GB-2	36" HORIZONTAL GRAB BAR
GB-3	18" VERTICAL GRAB BAR
GB-4	24" HORIZONTAL GRAB BAR
GB-5	48" HORIZONTAL GRAB BAR
MC	MEDICINE CABINET
MR	MIRROR
RH	ROBE HOOK
RH-A	ROBE HOOK - ACCESSIBLE
SR	SHOWER CURTAIN ROD
TB-1	24" TOWEL BAR
TB-2	18" TOWEL BAR
TD	TOILET TISSUE HOLDER
TR	TOWEL RING
TR-A	TOWEL RING - ACCESSIBLE

MOUNTING HEIGHTS GENERAL NOTES

1. COORDINATE WITH APPLICABLE DIMENSIONS AND DETAILS ON OTHER SHEETS.
2. ALL DIMENSIONS ARE IN INCHES - UNLESS OTHERWISE NOTED.
3. NOTES AND DETAILS ARE TYPICALLY APPLICABLE TO SIMILAR ITEMS ELSEWHERE ON THE SHEET.
4. WALL OUTLETS AND DEVICES ARE TO ALIGN VERTICALLY AS INDICATED IN MOUNTING DIAGRAM.
5. GANG MULTIPLE SWITCHES TOGETHER INTO ONE BOX WITH A SINGLE COVER PLATE WHENEVER POSSIBLE. MULTIPLE SWITCHES, WHICH CANNOT BE GANGED TOGETHER IN THE SAME BOX, SHALL BE LOCATED 5 CLOSER TOGETHER AS POSSIBLE AND MOUNTED AT THE SAME HEIGHT.
6. ACCESSORIES SUCH AS GRAB BARS, TOWEL BARS, PAPER DISPENSERS AND SOAP DISHES INSTALLED WITHIN 2' OF A URINAL, WATER CLOSET, SINK OR LAVATORY SHALL BE MOISTURE SEALED.
7. CONTRACTOR TO COORDINATE THE LOCATION OF ALL DEVICES WITH ARCHITECT/DESIGNER.
8. ITEMS SHOWN ON THIS SHEET ARE TYPICAL. COORDINATE WITH ACTUAL FIXTURES OR DEVICES USED.
9. ALL ITEMS SHOWN MAY NOT BE USED IN THIS PROJECT.
10. ALL GRAPHICS AND TEXT ON THIS PAGE DO NOT SUPERSEDE CURRENT ACCESSIBILITY CODE AND REGULATIONS.
11. REFERENCE ANSI A117 703.3.11 FOR TACTILE SIGN LOCATION REQUIREMENTS.
12. ALL FIXTURES AND ACCESSORY CHARACTERISTICS & DIMENSIONAL CLEARANCES MUST BE COMPLIENT WITH *ANSI A117.1*

COUNTERTOP DEVICES MOUNTING HEIGHTS



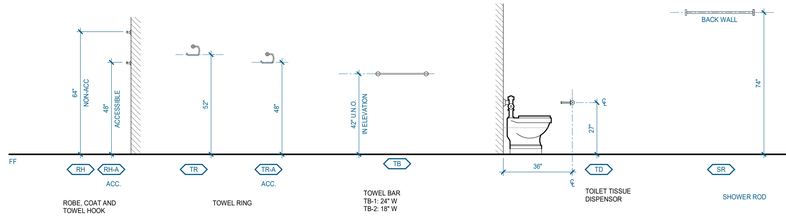
ELECTRICAL DEVICES ABOVE CLOSED CABINETS

ELECTRICAL DEVICES ABOVE WIREMOLD AT CLOSED CABINETS

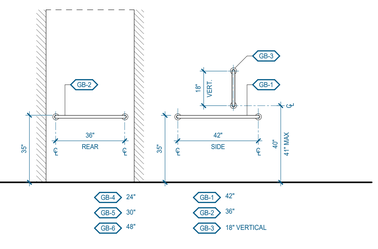
ELEVATION @ TYPICAL COUNTER TOP

TOILET / SHOWER ACCESSORIES TYPE LEGEND

REACH RANGE (RR) TO OPERATION
HIGH REACH RANGE: ≤ 44" AFF WHERE < 20" COUNTER DEPTH
REACH RANGE: ≤ 44" AFF WHERE 20"-25" COUNTER DEPTH
REACH RANGE: 15"-48" AFF WHERE NO COUNTERTOP

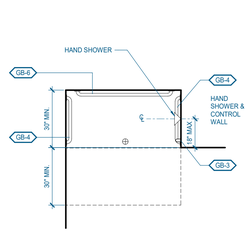


GRAB BAR DIMENSIONS:
GRAB BAR LENGTHS ARE **CL** TO **CL**. GRAB BAR HEIGHTS ARE FLOOR FINISH TO **TOP** OF GRIPPING SURFACE, UNO.

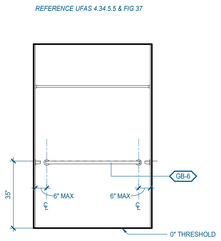


TYPICAL ACCESSIBLE GRAB BARS

RESTROOM FIXTURE MOUNTING DIMENSIONS

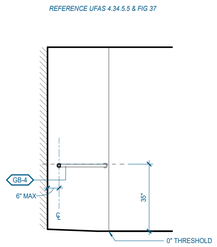


PLAN VIEW

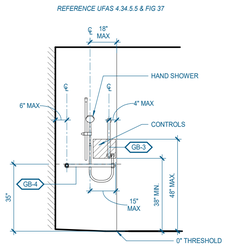


BACK VIEW

NOTE: REF. INTERIOR ELEVATIONS FOR FINISH PATTERN LAYOUT

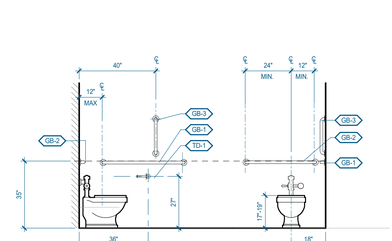


SIDE VIEW - WITHOUT CONTROLS



SIDE VIEW - WITH CONTROLS

UFAS SHOWER STANDARD ROLL-IN TYPE SHOWER COMPARTMENT



SIDE VIEW FRONT VIEW

UFAS TOILET TYPICAL ACCESSIBLE TOILET

MHM

McCarty Holsaple McCarty, Inc.
550 W. Main St., Suite 300
Knoxville, TN 37902
t 865.544.2000
www.mhminc.com

Consultants:

CIVIL ENGINEER:
HUDDLESTON-STEELE ENGINEERING INC.
2112 N.W. BROAD ST.
MURFREESBORO, TN 37129
615.893.4084

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MURFREESBORO, TN 37130
615.546.6050

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Checked By:	J. BRADLEY

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A-002

MOUNTING HEIGHT DIAGRAMS

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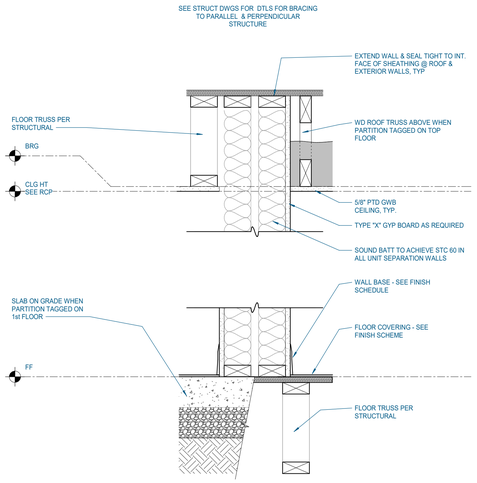
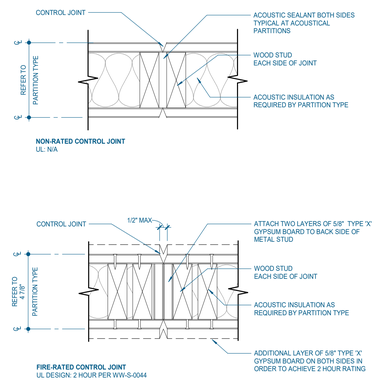


P24 WALL TYPE P HEAD/SILL DETAIL
1 1/2" = 1'-0"



P11 TYP. CONTROL JOINTS
NTS

PARTITION TYPE GENERAL NOTES

NOTE: PARTITION DESIGNATIONS OMITTED OR SKIPPED IS INTENTIONAL

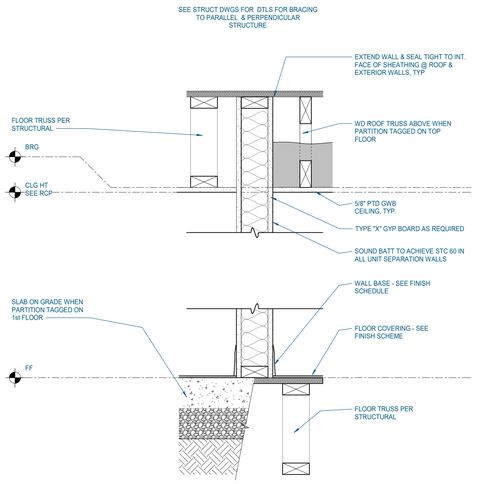
1. REFER TO FLOOR PLAN SERIES FOR LOCATION OF PARTITION TYPES. ALL PARTITIONS ARE TYPE **A30** UNLESS NOTED OTHERWISE. NOT ALL PARTITION TYPES SHOWN ARE UTILIZED.
2. REFER TO FINISH PLAN & SCHEDULE FOR BASES AND FINAL FINISHES NOT SHOWN ON PARTITION TYPE DETAILS.
3. PARTITION TYPES IN CHARTS REFER TO BASE OF WALL ONLY. SEE SUPPLEMENTARY DETAILS ON THE FOLLOWING SHEETS FOR SPECIFIC HEAD AND JAMB CONDITIONS. FOR RATED PARTITIONS REFER TO RATED HEAD CONDITIONS AND **UL HW.# SPECIFIED.**
4. PROVIDE DOUBLE STUD FRAMING AROUND ALL JAMBS AND HEADERS OF DOOR FRAMES, CASED OPENINGS, AND STOREFRONT SYSTEMS.
5. ALL NON-BEARING PARTITIONS SHALL BE CONSTRUCTED TO LIMIT DEFLECTION TO L/240 WITH UNIFORM 5 PSF LOADING. PROVIDE ADDITIONAL BRACING, FULLY OR BRACED AT 48" O.C. AS REQUIRED AT ALL NON-COMPOSITE PARTITIONS TO MEET PERFORMANCE CRITERIA, UNLESS NOTED OTHERWISE. CONTRACTER SHALL VERIFY ALL STUD GAUGE AND SPACING NEEDED TO MEET SPECIFIED LATERAL LOADS AND DEFLECTION CRITERIA.
6. PROVIDE NON-COMBUSTIBLE STIFFENERS, BRACING, BACKING PLATES AND BLOCKING REQUIRED FOR SECURE INSTALLATION OF TOILET PARTITIONS, DOORS AND DOOR HARDWARE INCLUDING WALL-MOUNTED DOOR STOPS, HANDRAILS, WALL-MOUNTED SHELVES, WALL MOUNTED TV MONITORS, VISUAL DISPLAY BOARDS, MISCELLANEOUS WALL-MOUNTED EQUIPMENT, AND SUSPENDED MECHANICAL AND ELECTRICAL EQUIPMENT. WHEN BLOCKING REQUIRED IN A PARTITION, USE A MINIMUM .033" (20 GA) STUD.
7. ISOLATE NON-LOAD BEARING FRAMING FROM STRUCTURAL ELEMENTS TO PREVENT THE TRANSFER OF LOAD TO PARTITION FRAMING. STOP STUDS 3/4" BELOW CEILING RUNNER (TOP TRACK) TO ALLOW FOR VERTICAL EXPANSION. SET TOP TRACK 1" BELOW DEFLECTION CHANNEL. DO NOT ATTACH STUDS TO TOP TRACK. DO NOT ATTACH GYPSUM BOARD TO THE DEFLECTION TRACK.
8. WATER RESISTANT GYPSUM BOARD AND/OR TILE BACKER BOARD WALL PANELS SHALL BE USED ON PARTITION ASSEMBLIES AT 'WET' OR 'TILED' LOCATIONS SCHEDULED IN THE ROOM FINISH SCHEDULE.
9. DO NOT INSTALL OUTLET OR J-BOXES BACK-TO-BACK ON OPPOSITE SIDES OF THE WALL. BOXES MUST BE SEPARATED BY A STUD (24" MIN).
10. TAPE AND APPLY JOINT COMPOUND TO ALL INTERIOR CORNERS AND JOINTS OF GYPSUM BOARD, UNLESS NOTED OTHERWISE FOR MOVEMENT CONTROL.
11. CONTROL JOINTS SHOULD BE SPACED NO FURTHER THAN (24') LINEAR FEET O.C. WHERE CONTROL JOINTS ARE REQUIRED BASED UPON SPECIFIED FREQUENCY, AND ARE NOT SHOWN ON INTERIOR ELEVATIONS, LOCATE VERTICAL CONTROL JOINTS ON EACH SIDE OF A DOOR FRAME.
12. INSTALL METAL CASING / TRIM AND APPLY JOINT COMPOUND TO ALL EXPOSED CORNERS OF GYPSUM BOARD UNLESS NOTE OTHERWISE.
13. INSTALL METAL REVEALS WITH CONCEALED FASTENERS PER MANUFACTURERS INSTRUCTIONS.
14. REFER TO STRUCTURAL DRAWINGS & SPECIFICATION FOR ALL MTL FRAMING LOAD AND THICKNESS REQUIREMENTS
15. WHERE PARTITION TYPE IS INTERRUPTED BY ANY OPENINGS (DOOR OR WINDOW) CONSTRUCTION ABOVE OR BELOW SHALL BE THE SAME AS THE DESIGNATED PARTITION TYPE ADJACENT TO OPENING OCCURANCE.
16. ALL NON LOAD-BEARING STUD FRAMING SHALL BE 20 GAUGE, UNLESS NOTED OTHERWISE.

FIRE RATED PARTITIONS

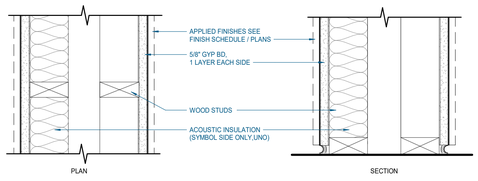
1. REFER TO SUPPLEMENTARY DRAWINGS ON THE FOLLOWING SHEETS FOR ADDITIONAL INFORMATION ON PENETRATIONS THRU RATED PARTITIONS. FIRE RESISTANT JOINT SYSTEMS, SLIP TRACKS AT NON-BEARING PARTITIONS CONNECTION TO STRUCTURE AND GYPSUM DETAILS.
2. RATED PARTITIONS ARE TO BE CONSTRUCTED BEFORE NON-RATED PARTITIONS. ABUT NONRATED PARTITIONS TO RATED PARTITIONS SO THAT THE FACES ARE FLUSH.
3. ALL FIRE-RESISTANCE RATED PARTITIONS SHALL BE CONSTRUCTED FROM TOP OF NON-FINISHED FLOOR CONSTRUCTION TO BOTTOM OF FLOOR CONSTRUCTION ABOVE AND SEALED WITH AN APPROVED FIRE-RESISTIVE SEALANT.
4. PARTITION TYPES AND FIRE RESISTIVE RATINGS INDICATED ARE TO BE CONTINUOUS FOR THE LENGTH AND HEIGHT OF A PARTITION.

ACOUSTICAL (THE FOLLOWING NOTES APPLY TO ALL PARTITIONS DESIGNATED TO HAVE A SOUND TRANSMISSION CLASS RATING ON THE PARTITION CHARTS.)

1. ALL ACOUSTICALLY CLASSED PARTITIONS SHALL BE CONSTRUCTED IN ACCORDANCE TO THE REFERENCED TEST.
2. STAGGER AND SEAL ALL JOINTS ON MULTIPLE GYPSUM BOARD LAYER PARTITIONS.
3. SEAL PARTITIONS AIR TIGHT AT FLOORS, SIDES, AND CEILINGS ON BOTH SIDES WITH NON-HARDENING ACOUSTICAL SEALANT IN ACCORDANCE TO REF. TEST.
4. ALL BATTS AND BLANKETS IN RATED PARTITIONS MUST BEAR THE REQUIRED UL CLASSIFICATION MARKING AS TO FIRE-RESISTANCE. REFER TO CODE COMPLIANCE DETAILS IN A-040 SERIES.
5. AVOID COMPRESSING ACOUSTICAL BATT INSULATION AT BLOCKING AND RECESSED ITEMS IN ACOUSTICALLY RATED WALLS.
6. REFER TO PARTITION DETAILS FOR PARTITION TYPES WITH A DESIGNATED STC RATING.
7. SEAL ALL WALL INTERSECTIONS AND CONTROL JOINTS AT ACOUSTICALLY CLASSED PARTITIONS IN ACCORDANCE WITH DETAIL 12/A-8102.
8. SEAL ALL CONDUIT, STRUCTURAL, DUCT AND LARGE PIPE PENETRATIONS.
9. ALL BOXES REQUIRED TO BE ACOUSTICALLY SEALED SHALL BE SEALED PRIOR TO CLOSING IN PARTITIONS AND INSTALLING DEVICES AND COVER PLATES. VERIFY COMPLIANCE WITH STC #.
10. AT ALL PARTITIONS INSTALL WALL BOARDS TO MAINTAIN 1/8" MIN, 1/4" MAX JOINT BETWEEN BOTTOM EDGE OF BOARD AND TOP OF SLAB / FLOOR. FILL JOINT WITH CONTINUOUS BEAD OF ACOUSTIC SEALANT.



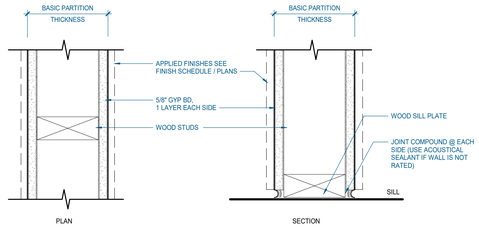
G24 WALL TYPE A_1 HEAD/SILL DETAIL
1 1/2" = 1'-0"



ACOUSTIC GYP BOARD CHASE WALL PARTITION

P	PARTITION TYPE TAG	P4_	P6_	HEAD DETAIL
PARTITION HEIGHT	**0** - NON-RATED WITH GYP BD TO STRUCTURE ABOVE	P40	P60	
	1 - 1-HR RATED WITH GYP BD TO STRUCTURE ABOVE	P41	P61	P24/A-003
	STUD SIZE	4"	6"	
	BASIC PARTITION THICKNESS	9 1/4"	11 1/4"	
	ACOUSTICAL RATING (STC)	57	57	
	ACOUSTICAL TEST NUMBER	TL-76-155	TL-76-155	
	FIRE TEST NUMBER (WHERE APPLICABLE)	UL DES U341	UL DES U341	

NOTE:
1. STEEL RUNNER BRACING SHALL BE A MIN OF 4 1/2" LONG.
2. USE OF GYP BD BRACING AT RATED WALLS, LIMITS THE STUD CAVITY DEPTH TO 9 1/2".
3. ACOUSTICAL INSULATION IS IN ONE SIDE ONLY.
5. STC'S ARE BASED ON NON-RATED WITH GYP TO STRUCTURE ABOVE ONLY.

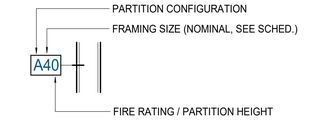


SINGLE LAYER BALANCED GYP BOARD PARTITION

B	PARTITION TYPE TAG	B4_	B6_	HEAD DETAIL
PARTITION HEIGHT	**0** - NON-RATED WITH GYP BD TO STRUCTURE ABOVE	B40	B60	SIM A24/A-003
	1 - 1-HR RATED WITH GYP BD TO STRUCTURE ABOVE	B41	B61	SIM G24/A-003
	STUD SIZE	4"	6"	
	BASIC PARTITION THICKNESS	4 3/4"	6 3/4"	
	ACOUSTICAL RATING (STC)	39	40	
	ACOUSTICAL TEST NUMBER	USG 860808	USG 860808	
	FIRE TEST NUMBER (WHERE APPLIES)	UL DES U305	UL DES U305	

NOTES:
1. STC'S ARE PREDICTED USING THE "INSUL" COMPUTER PROGRAM.
2. STC'S ARE BASED ON NON-RATED WITH GYP TO STRUCTURE ABOVE ONLY.
3. TILE BACKER BOARD WALL PANELS SHALL BE USED ON PARTITION ASSEMBLIES AT 'WET' OR 'TILED' LOCATIONS SCHEDULED IN THE ROOM FINISH SCHEDULE.

INTERIOR PARTITION TYPE PLAN SYMBOL



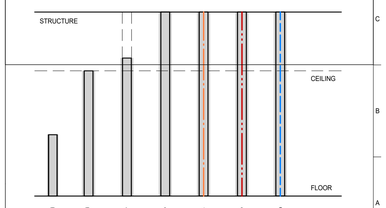
PARTITION TAG LEGEND

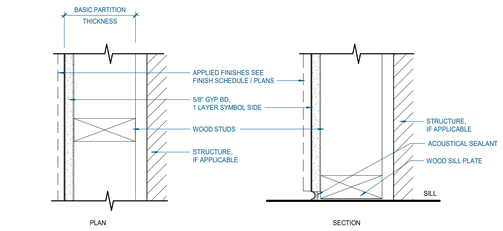
FRAMING SIZE CHART (SEE PARTITION CHARTS)

XXX	FRAMING SIZE (**MTL**)	XXX	FRAMING SIZE (**CMU**)
0	HAT OR 'Z' FURRING	**4**	3 5/8" CONCRETE MASONRY UNIT
1	1 5/8" NON LOAD-BEARING MTL STUD	**6**	5 5/8" CONCRETE MASONRY UNIT
2	2 1/2" NON LOAD-BEARING MTL STUD	**8**	7 5/8" CONCRETE MASONRY UNIT
3	3 5/8" NON LOAD-BEARING MTL STUD	**10**	9 5/8" CONCRETE MASONRY UNIT
4	4" NON LOAD-BEARING MTL STUD	**12**	11 5/8" CONCRETE MASONRY UNIT
6	6" NON LOAD-BEARING MTL STUD		
8	8" NON LOAD-BEARING MTL STUD		

FIRE RATING / PARTITION HEIGHT DESIGNATION

XXX	HEIGHT/RATING DESCRIPTION
A	NON-RATED - EXTEND STUDS TO UNDERSIDE OF STRUCTURE ABOVE. EXTEND GYPSUM OR BACKER BD & ACOUSTICAL INSULATION TO 6" ABOVE CEILING.
B	NON RATED PARITION - TO UNDERSIDE OF CEILING
0	NON RATED - TO UNDERSIDE OF STRUCTURE ABOVE
1	(1) HOUR FIRE-RATED
2	(2) HOUR FIRE-RATED
S	SMOKE-RESISTANT PARTITION
P	PARTIAL HEIGHT PARTITION (SEE PLAN & ELEVATIONS FOR PARTITION HEIGHT)

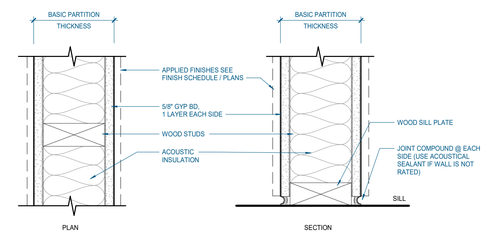




FREE STANDING FURRED GYP BOARD PARTITION - ONE LAYER

E	PARTITION TYPE TAG	E4_	E6_	HEAD DETAIL
PARTITION HEIGHT	**0** - NON-RATED WITH GYP BD TO STRUCTURE ABOVE	E40	E60	SIM A24/A-003
	P - PARTIAL HEIGHT PARTITION, SEE INT. ELEVATION FOR HEIGHTS	E4P	E6P	
	STUD SIZE	4"	6"	
	BASIC PARTITION THICKNESS	4 1/8"	6 1/8"	
	ACOUSTICAL RATING (STC)	28 (NOTE 3)	28 (NOTE 3)	
	ACOUSTICAL TEST NUMBER	NOTE 1	NOTE 1	
	FIRE TEST NUMBER (WHERE APPLIES)	N/A	N/A	

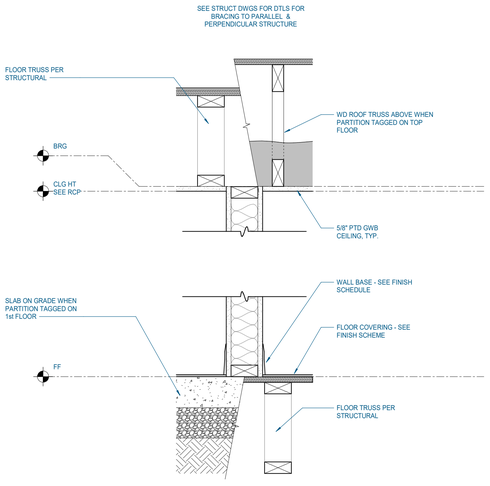
NOTE:
1. STC'S ARE PREDICTED USING THE "INSUL" COMPUTER PROGRAM.
2. REFER TO 20/A-8102 FOR BRACING.
3. STC'S ARE BASED ON NON-RATED WITH GYP TO STRUCTURE ABOVE ONLY.
4. STUDS EXCEEDING 12' FOOT HEIGHT REQ. MIN-HT BRACING TO STRUCTURE.



SINGLE LAYER BALANCED ACOUSTIC GYP BOARD PARTITION

A	PARTITION TYPE TAG	A4_	A6_	HEAD DETAIL
PARTITION HEIGHT	**0** - NON-RATED WITH GYP BD TO STRUCTURE ABOVE	A40	A60	A24/A-003
	1 - 1-HR RATED WITH GYP BD TO STRUCTURE ABOVE	A41	A61	G24/A-003
	STUD SIZE	4"	6"	
	BASIC PARTITION THICKNESS	4 3/4"	6 3/4"	
	ACOUSTICAL RATING (STC)	49	49	
	ACOUSTICAL TEST NUMBER	SA 870717 / NOTE 1	NGC 2017116 / NOTE 1	
	FIRE TEST NUMBER (WHERE APPLIES)	UL DES U305	UL DES U305	

NOTES:
1. STC'S ARE PREDICTED USING THE "INSUL" COMPUTER PROGRAM.
2. STC VALUES ONLY APPLICABLE FOR PARTITION HEIGHT TYPES 0 & 1.
3. TILE BACKER BOARD WALL PANELS SHALL BE USED ON PARTITION ASSEMBLIES AT 'WET' OR 'TILED' LOCATIONS SCHEDULED IN THE ROOM FINISH SCHEDULE.



A24 WALL TYPE A_0 HEAD/SILL DETAIL
1 1/2" = 1'-0"

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McCarty Holsaple McCarty, Inc.
550 W. Main St., Suite 300
Knoxville, TN 37902
t 865.544.2000
www.mhminc.com

Consultants:

CIVIL ENGINEER:
HUDDLESTON-STEELE ENGINEERING INC.
2112 N.W. BROAD ST.
MURFREESBORO, TN 37129
615.893.4084

LANDSCAPE ARCHITECT:
RAGAN SMITH
100 E. VINE ST., STE 200
MURFREESBORO, TN 37130
615.546.6050

STRUCTURAL ENGINEER:
HAINES STRUCTURAL GROUP
800 S. GAY ST., STE 1750
KNOXVILLE TN, 37929
865.329.9920

MECHANICAL & PLUMBING ENGINEER:
FACILITY SYSTEMS CONSULTANTS
713 S. CENTRAL ST., STE 101
KNOXVILLE TN, 37902
865.246.0164

ELECTRICAL ENGINEER:
FACILITY SYSTEMS CONSULTANTS
713 S. CENTRAL ST., STE 101
KNOXVILLE TN, 37902
865.246.0164

Project Information:

21026

MHA Parkside Housing
520 EAST CASTLE STREET,
MURFREESBORO, TN 37130

Seal:

Consultant:

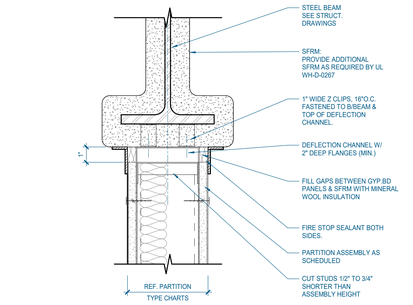
#	ISSUE	DATE

Issue Date:	04/04/2022
PIC	M. BUTLER
PM	M. BUTLER
PA	G. TAYLOR
Drawn By:	A.MONTGOMERY
Checked By:	J. BRADLEY

Sheet Description:

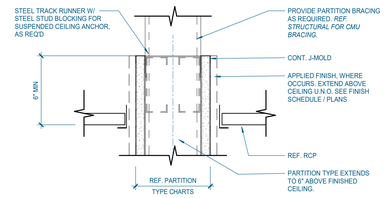
A-003

PARTITION TYPE SCHEDULE & DETAILS

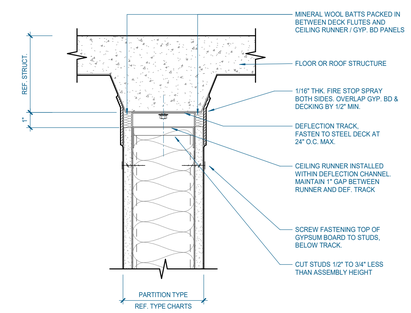


NOTES:
1. UL SYSTEM NO. HW-D-0067 (OR HW-D-0267 CAN ALSO BE USED).
2. SIM. AT NON-RATED WALL: USE ACOUSTICAL SEALANT/BATTS IN LIEU OF FIRE-RESISTIVE JOINT.

12 PARTITION HEAD DETAIL
3" = 1'-0"

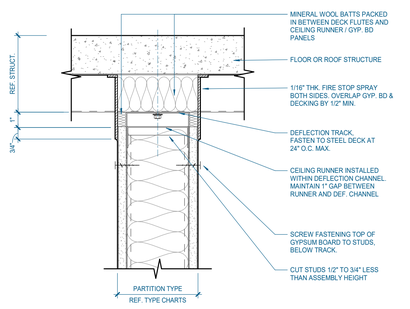


11 PARTITION HEAD DETAIL
3" = 1'-0"

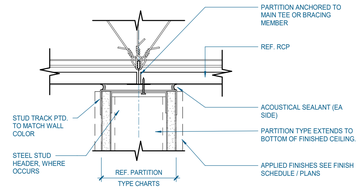


NOTES:
1. UL SYSTEM NO: HW-D-0160 (OR HW-D-0264, HW-D-0107, HW-D-0049 CAN ALSO BE USED).
2. SIM. AT NON-RATED WALL: USE ACOUSTICAL SEALANT/BATTS IN LIEU OF FIRE-RESISTIVE JOINT

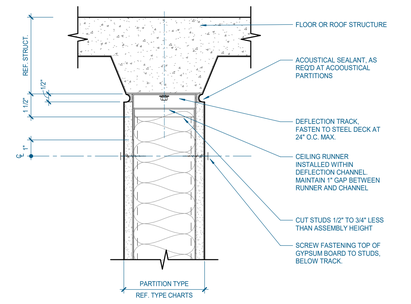
2 PARTITION HEAD DETAIL - 1HR
C1010.10
3" = 1'-0"



NOTES:
1. UL SYSTEM NO: HW-D-0160 (OR HW-D-0107, HW-D-0045 CAN ALSO BE USED).
2. SIM. AT NON-RATED WALL: USE ACOUSTICAL SEALANT/BATTS IN LIEU OF FIRE-RESISTIVE JOINT



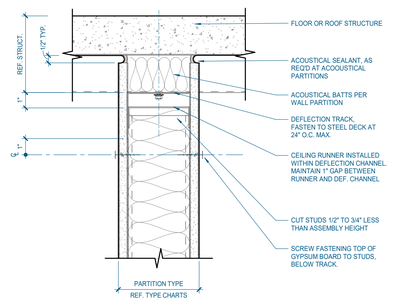
10 PARTITION HEAD DETAIL
C1010.10
3" = 1'-0"

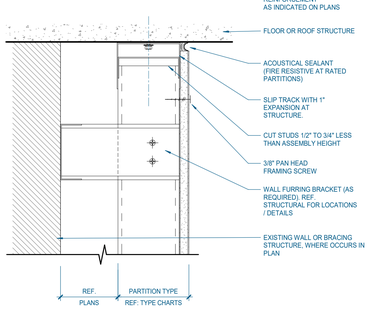


NOTES:
1. LAYER(S) OF GYP. BD. PER PARTITION TYPE. REF: PLANS FOR PARTITION HEIGHT DESIGNATION

C1010.10

1 TYP. PARTITION HEAD DETAIL - 0
3" = 1'-0"





NOTES:
1. LAYER(S) OF GYP. BD. PER PARTITION TYPE. REF: PLANS FOR PARTITION DESIGNATION HEIGHT

C1010.10

9 PARTITION HEAD DETAIL
3" = 1'-0"

11/15/2023 2:51:00 PM

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McCarty Holsaple McCarty, Inc.
550 W. Main St., Suite 300
Knoxville, TN 37902
t 865.544.2000
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Consultants:

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PA	G. TAYLOR
Drawn By:	Author
Checked By:	J. BRADLEY

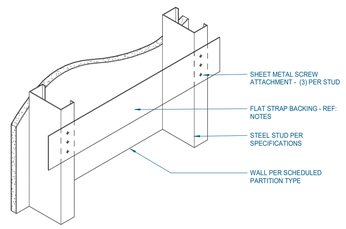
Sheet Description:

A-011

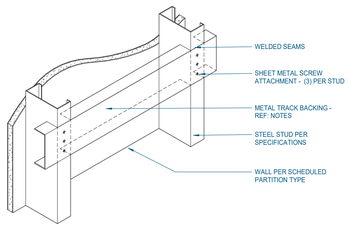
TYPICAL PARTITION HEAD DETAILS

BACKING PLATE / BLOCKING NOTES

1. PROVIDE BACKING PLATE OR BLOCKING AT ALL TOILET ACCESSORIES AND WALL MOUNTED EQUIPMENT. EXTEND BACKING PLATE TO NEXT STUD BEYOND SIDE OF FIXTURE OR ACCESSORY.
2. PROVIDE MECHANICAL SLEEVES THROUGH WALL FINISH AT FIXTURE AND EQUIPMENT FASTENING.
3. SEE MECHANICAL, STRUCTURAL, AND ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION. CONTRACTOR TO VERIFY BACKING PLATE OR BLOCKING TO BE INSTALLED WITH SIZE AND WIEGHT OF EQUIPMENT, CASEWORK, AND/OR SHELVING PRIOR TO APPLICATION OF GYP. BD.
4.
5.

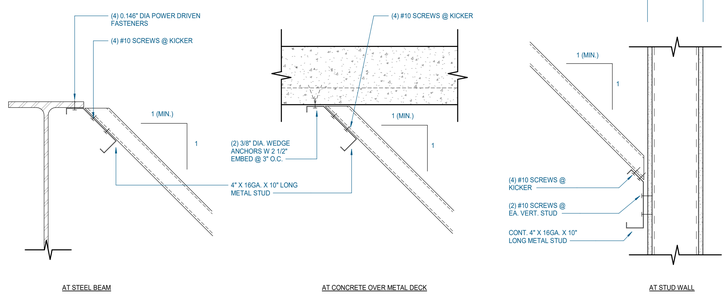


BACKING PLATE - SHEET METAL

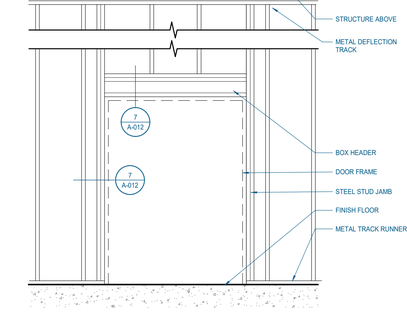


BACKING PLATE - METAL TRACK

11 BACKING PLATE DETAILS
1 1/2" = 1'-0"

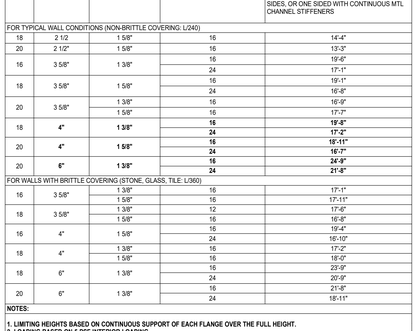


9 PARTITION BRACING DETAILS
1 1/2" = 1'-0"

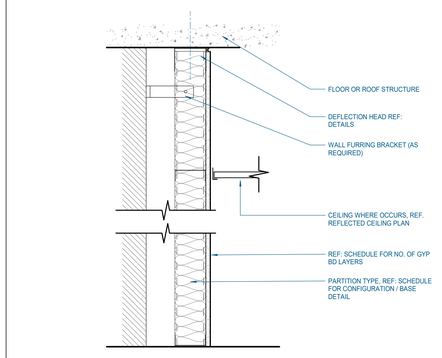


NOTES: PER IBC 711.3.4
1. PER IBC 711.3.4, MAINTAINING FIRE RATING AROUND A GREATER THAN 16 SQ IN CABINET IS NOT NECESSARY IF THE BOX HAS BEEN TESTED FOR USE IN A FIRE-RESISTANT RATED ASSEMBLY.
2. 12" MINIMUM UNLESS NOTED OTHERWISE IN PARTITION CHART.

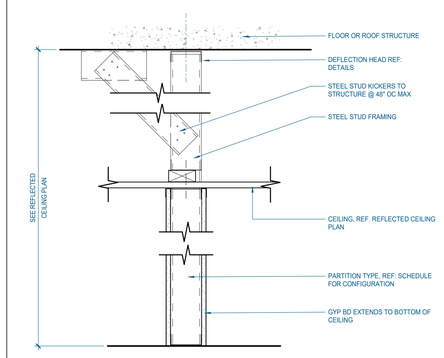
8 GYP.BD PARTITION PLAN DETAILS
1 1/2" = 1'-0"



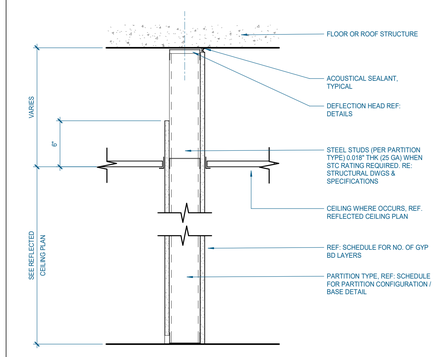
5 ACOUSTICAL PARTITION SECTION
1 1/2" = 1'-0"



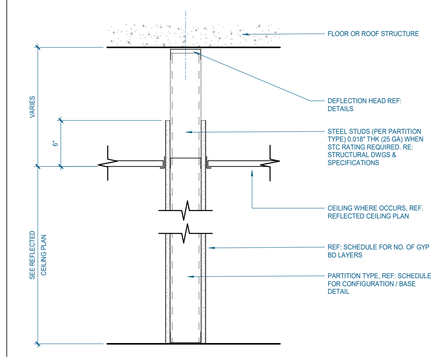
3 PARTITION SECTION - BRACING ONE SIDE
1 1/2" = 1'-0"



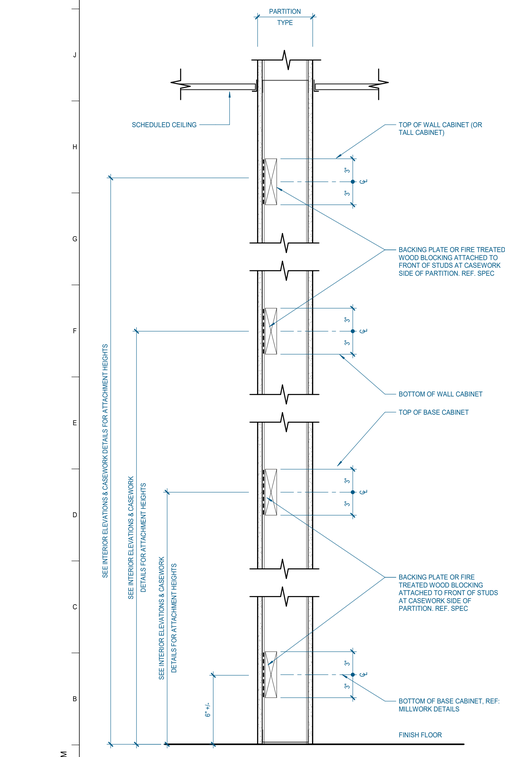
B PARTITION SECTION - BELOW CEILING
1 1/2" = 1'-0"



2 PARTITION SECTION - EXPOSED ONE SIDE
1 1/2" = 1'-0"



A PARTITION SECTION - ABOVE CEILING
1 1/2" = 1'-0"



10 BLOCKING @ WALL MOUNTED CASEWORK
1 1/2" = 1'-0"

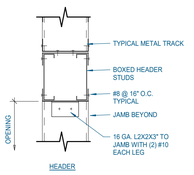
INTERIOR OPENING HEADER SCHEDULE

OPENING SPAN	STUD SIZE	HEADER STUD GAUGE
4'-0" - 6'-0"	6"	20 GA.
6'-0" - 10'-0"	6"	18 GA.
10'-0" - 14'-0"	8"	16 GA.

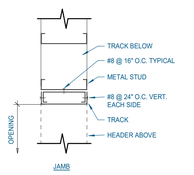
NOTE: TRACK ABOVE HEADER 18 GA. MIN.

INTERIOR OPENING JAMB SCHEDULE

OPENING SPAN	STUD SIZE	JAMB GAUGE
4'-0" - 6'-0"	4"	18 GA.
	6"	20 GA.
6'-0" - 10'-0"	4"	16 GA.
	6"	18 GA.
10'-0" - 14'-0"	4"	12 GA.
	6"	16 GA.



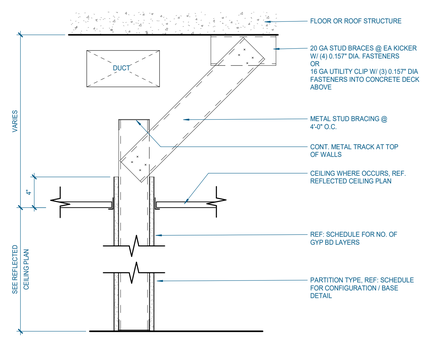
HEADER



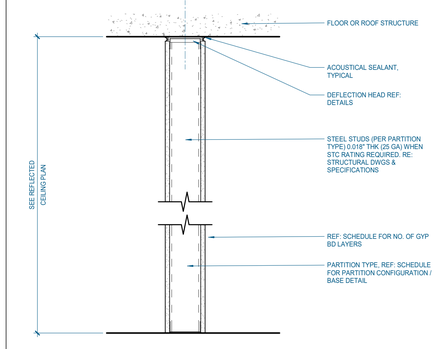
JAMB

7 HEADER AND JAMB SECTIONS
1 1/2" = 1'-0"

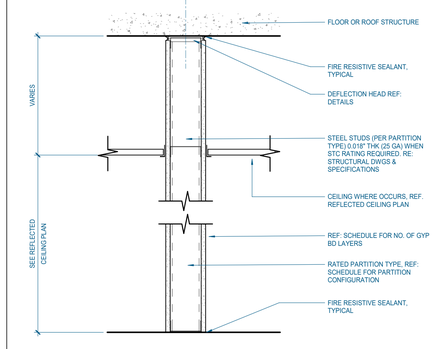
6 ELEVATION - HEADER TO JAMB
3/8" = 1'-0"



4 PARTITION SECTION - OFFSET BRACING
1 1/2" = 1'-0"



1 PARTITION SECTION - EXPOSED CEILING
1 1/2" = 1'-0"

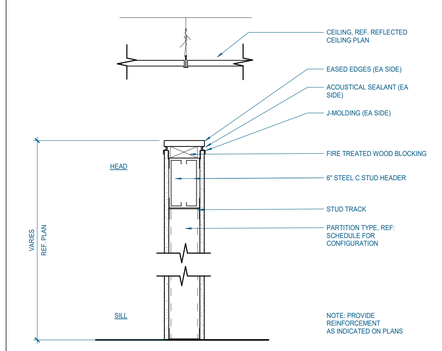


HR PARTITION SECTION - RATED / SMOKE
1 1/2" = 1'-0"

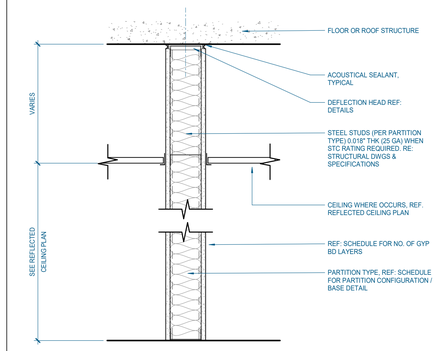
INTERIOR PARTITION STUD SCHEDULE

GAGE	STUD SIZE	FLANGE WIDTH	STUD SPACING (in)	ALLOWABLE WALL HEIGHTS
				TYPICAL WALL CONDITION: FULL HEIGHT WITH MIN. 1/2" GYP. BD. OR BACKER BOARD BOTH SIDES, OR ONE SIDED WITH CONTINUOUS MTL CHANNEL STIFFENERS
FOR TYPICAL WALL CONDITIONS (NON-BRITTLE COVERING: L/240)				
18	2 1/2	1 5/8"	16	14'-4"
20	2 1/2"	1 5/8"	16	13'-3"
16	3 5/8"	1 3/8"	16	19'-6"
			24	17'-1"
18	3 5/8"	1 5/8"	16	19'-1"
			24	16'-8"
20	3 5/8"	1 3/8"	16	16'-9"
		1 5/8"	16	17'-7"
18	**4"**	**1 3/8"**	**16**	**19'-8"**
			24	**17'-2"**
20	**4"**	**1 5/8"**	**16**	**18'-11"**
			24	**16'-7"**
20	**6"**	**1 3/8"**	**16**	**24'-9"**
			24	**21'-8"**
FOR WALLS WITH BRITTLE COVERING (STONE, GLASS, TILE: L/360)				
16	3 5/8"	1 3/8"	16	17'-1"
		1 5/8"	16	17'-11"
18	3 5/8"	1 3/8"	12	17'-6"
		1 5/8"	16	16'-8"
16	4"	1 5/8"	16	19'-4"
			24	16'-10"
18	4"	1 3/8"	16	17'-2"
		1 5/8"	16	18'-0"
18	6"	1 3/8"	16	23'-9"
			24	20'-9"
20	6"	1 3/8"	16	21'-8"
			24	18'-11"

NOTES:
1. LIMITING HEIGHTS BASED ON CONTINUOUS SUPPORT OF EACH FLANGE OVER THE FULL HEIGHT.
2. LOADING BASED ON 5 PSF INTERIOR LOADING.



P PARTITION SECTION - PARTIAL HEIGHT
1 1/2" = 1'-0"



0 PARTITION SECTION - ACOUSTIC / DROP CEILING
1 1/2" = 1'-0"

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McCarty Holsaple McCarty, Inc.
550 W. Main St., Suite 300
Knoxville, TN 37902
t 865.544.2000
www.mhminc.com

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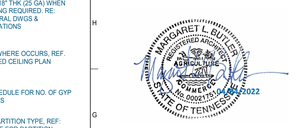


Consultant:

#	ISSUE	DATE

Issue Date:	04/04/2022
PIC	M. BUTLER
PM	M. BUTLER
PA	G. TAYLOR
Drawn By:	A. MONTGOMERY
Checked By:	J. BRADLEY

Sheet Description:

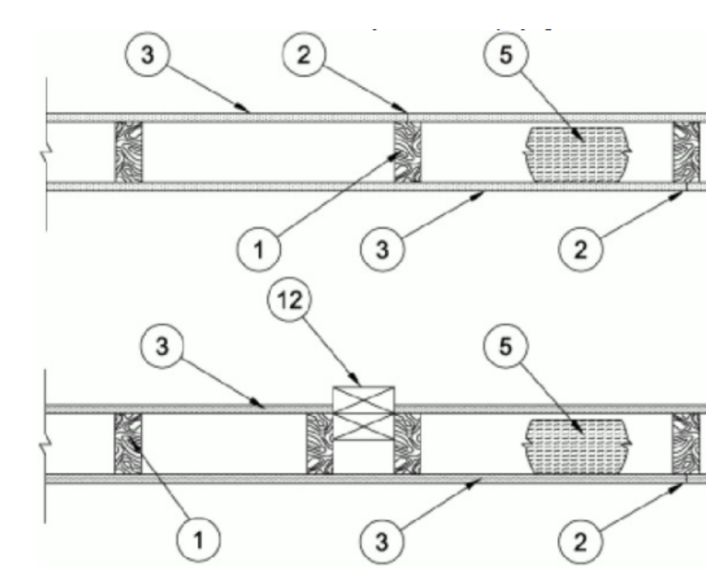
A-012

TYPICAL PARTITION DETAILS

11/15/2023 2:51:02 PM

Design No. U305

July 29, 2021
Bearing Wall Rating — 1 Hr
Finish Rating — See Items 3, 3A, 3D, 3E, 3F, 3G, 3H, 3J and 3L.
STC Rating - 56 (See Item 9)
This design was evaluated using a load design method other than the Limit States Design Method (e.g., Working Stress Design Method). For jurisdictions employing the Limit States Design Method, such as Canada, a load restriction factor shall be used — See Guide BXUV or BXUV7



1. Wood Studs — Nom 2 by 4 in. spaced 16 in. OC max, effectively firestopped.
2. Joints and Nail-Heads — Joints covered with joint compound and paper tape. Joint compound and paper tape may be omitted when square edge boards are used. As an alternate, nom 3/32 in. thick gypsum veneer plaster may be applied to the entire surface of Classified veneer baseboard with the joints reinforced with paper tape. Nailheads exposed or covered with joint compound.
3. Gypsum Board* — 5/8 in. thick paper or vinyl surfaced, with beveled, square, or tapered edges, applied either horizontally or vertically. Gypsum panels nailed 7 in. OC with 6d cement coated nails 1-7/8 in. long, 0.0915 in. shank diam and 15/64 in. diam heads. When used in widths other than 48 in., gypsum panels are to be installed horizontally. For an alternate method of attachment of gypsum panels, refer to Items 6 through 6F, Steel Framing Members*.
When Items 6, 6B, 6C, 6D, 6E, or 6F, Steel Framing Members*, are used, gypsum panels attached to furring channels with 1 in. long Type S bugle-head steel screws spaced 12 in. OC.

When Item 6A, Steel Framing Members*, is used, two layers of gypsum panels attached to furring channels. Base layer attached to furring channels with 1 in. long Type S bugle-head steel screws spaced 12 in. OC. Face layer attached to furring channels with 1-5/8 in. long Type S bugle-head steel screws spaced 12 in. OC. All joints in face layers staggered with joints in base layers. One layer of gypsum board attached to opposite side of wood stud without furring channels as described in Item 3.

When Item 7, resilient channels are used, 5/8 in. thick, 4 ft wide gypsum panels applied vertically. Screw attached furring channels with 1 in. long, self-drilling, self-tapping Type S or S-12 steel screws spaced 8 in. OC, vertical joints located midway between studs.

AMERICAN GYPSUM CO — Types AGX-1(finish rating 23 min.), M-Glass (finish rating 23 min.), Type AGX-11 (finish rating 26 min), Type AGX-12 (finish rating 22 min), Type LightRoc (finish rating 23 min.) or Type AG-C

BEIJING NEW BUILDING MATERIALS PUBLIC LTD CO — Type DBX-1 (finish rating 24 min)

CABOT MANUFACTURING ULC — Type X (finish rating 22 min), 5/8 Type X, Moisture Resistant Type X, Gypsum Sheathing Type X, Mold & Mildew Resistant Type X and Mold & Mildew Resistant AR Type X, Type Blueglass Exterior Sheathing

CERTAINTEED GYPSUM INC — Type C, Type X or Type X-1 (finish rating 26 min); Type EGRG or GlasRoc (finish rating 23 min), GlasRoc-2, Type Habito (finish rating 26 min).

CGC INC — Type AR (finish rating 24 min), Type C (finish rating 24 min), Type IP-AR (finish rating 24 min), Type IPC-AR (finish rating 24 min), Type IP-X1 (finish rating 24 min), Type IP-X2 (finish rating 24 min), Type SCX (finish rating 24 min), Type SHX (finish rating 24 min), Type ULX (finish rating 22 min), Type WRC (finish rating 24 min), Type WRX (finish rating 24 min), Type ULIX (finish rating 20 min)

CERTAINTEED GYPSUM INC — Type LGFC6A (finish rating 34 min), Type LGFC2A, Type LGFC-C/A, Type LGFC-WD, Type LGLLX (finish rating 21 min), Type CLLX (finish rating 24 min)

GEORGIA-PACIFIC GYPSUM L L C — Type 5 (finish rating 26 min), Type 6 (finish rating 23 min), Type 9 (finish rating 26 min), Type C (finish rating 26 min), Type DGG (finish rating 20 min), Type GPFS1 (finish rating 20 min), Type GPFS2 (finish rating 20 min), Type GPFS6 (finish rating 26 min), Type DS, Type DAP, Type DD (finish rating 20 min), Type DA, Type DAPC, Type LS (finish rating 23 min), Type X, Veneer Plaster Base - Type X, Water Rated - Type X, Sheathing - Type X, Soffit - Type X, Type LWX (finish rating 22 min), Veneer Plaster Base-Type LWX (finish rating 22 min), Water Rated-Type LWX (finish rating 22 min), Sheathing Type-LWX (finish rating 22 min), Soffit-Type LWX (finish rating 22 min), Type DGLW (finish rating 22 min), Water Rated-Type DGLW (finish rating 22 min), Sheathing Type- DGLW (finish rating 22 min), Soffit-Type DGLW (finish rating 22 min), Type LWX (finish rating 22 min), Type LW2X (finish rating 22 min), Veneer Plaster Base - Type LW2X (finish rating 22 min), Water Rated - Type LW2X (finish rating 22 min), Sheathing - Type LW2X (finish rating 22 min), Soffit - Type LW2X (finish rating 22 min), Type DGL2W (finish rating 22 min), Water Rated - Type DGL2W (finish rating 22 min), Sheathing - Type DGL2W (finish rating 22 min)

NATIONAL GYPSUM CO — Type FSK (finish rating 20 min), Type FSK-G (finish rating 20 min), Type FSW (finish rating 20 min), Type FSW-2 (finish rating 24 min), Type FSW-3 (finish rating 20 min), Type FSW-5 (finish rating 22 min), Type FSW-G (finish rating 20 min), Type FSK-C (finish rating 20 min), Type FSW-C (finish rating 20 min), Type FSMR-C, Type FSW-6 (finish rating 20 min), Type FSL (finish rating 24 min), Type FSW-8, Type FSLX (finish rating 21 min), Type RSX (finish rating 26 min).

NATIONAL GYPSUM CO — Riyadh, Saudi Arabia — Type FR, or WR.

PABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM — Types C, PG-2 (finish rating 20 min), PG-3 (finish rating 20 min), Types PG-3W, PG-5W (finish rating 20 min), Type PG-4 (finish rating 20 min), Type PG-6 (finish rating 23 min), Types PG-3WS, PG-5WS, PGS-WRS (finish rating 20 min), Types PG-5, PG-9 (finish rating 26 min), PG-11 PG-13 (Nails increased to 2 in.), Type PG-C or PGI (finish rating 26 min)

PANEL REY S A — Type GREX, GRIX, PRX, PRC, PRC2; Types RHX, Guard Rey, MDX, ETX (finish rating 22 min), PRX2 (finish rating 21 min)

SIAM GYPSUM INDUSTRY (SARABURI) CO LTD — Type EX-1 (finish rating 26 min)

THAI GYPSUM PRODUCTS PCL — Type C, Type X (finish rating 26 min)

UNITED STATES GYPSUM CO — Type AR (finish rating 24 min), Type C (finish rating 24 min), Type FRX-G (finish rating 29 min), Type IP-AR (finish rating 24 min), Type IPC-AR (finish rating 24 min), Type IP-X1 (finish rating 24 min), Type IP-X2 (finish rating 24 min), Type SHX (finish rating 24 min), Type SCX (finish rating 24 min), Type SGX (finish rating 24 min), Type ULX (finish rating 22 min), Type WRX (finish rating 24 min), Type WRC (finish rating 24 min), Type ULIX (finish rating 20 min)

USG BORAL DRYWALL SFZ LLC — Type SGX (finish rating 24 min).

USG MEXICO S A DE C V — Type AR (finish rating 24 min), Type C (finish rating 24 min), Type WRX (finish rating 24 min), Type WRC (finish rating 24 min), Type IP-X1 (finish rating 24 min), Type IP-X2 (finish rating 24 min), Type SHX (finish rating 24 min), SCX (finish rating 24 min), Type IP-AR (finish rating 24 min), Type IPC-AR (finish rating 24 min), Type ULX (finish rating 22 min)

3A. Gypsum Board* — (As an alternate to Item 3) — 5/8 in. thick gypsum panels, with beveled, square, or tapered edges, applied either horizontally or vertically. Gypsum panels fastened to framing with 1-1/4 in. long Type W coarse thread gypsum panel steel screws spaced a max 8 in. OC, with last screw 1 in. from edge of board. When used in widths of other than 48 in., gypsum boards are to be installed horizontally.

AMERICAN GYPSUM CO — Types AGX-1 (finish rating 25 min.), M-Glass (finish rating 25 min.), AG-C (finish rating 25 min.), LighttRoc (finish rating 25 min.)

CERTAINTEED GYPSUM INC — Type C, Type X, Type X-1 (finish rating 26 min), Type EGRG or GlasRoc.

CGC INC — Type AR (finish rating 24 min), Type C (finish rating 24 min), Type IP-AR (finish rating 24 min), Type IPC-AR (finish rating 24 min), Type IP-X1 (finish rating 24 min), Type IP-X2 (finish rating 24 min), Type SCX (finish rating 24 min), Type SHX (finish rating 24 min), Type WRC (finish rating 24 min), Type WRX (finish rating 24 min)

NATIONAL GYPSUM CO — Type FSW (finish rating 24 min)

UNITED STATES GYPSUM CO — Type AR (finish rating 24 min), Type SCX (finish rating 24 min), Type SGX (finish rating 24 min), Type C (finish rating 24 min), Type WRX (finish rating 24 min), Type WRC (finish rating 24 min), Type IP-X1 (finish rating 24 min), Type IP-X2 (finish rating 24 min), Type SHX (finish rating 24 min), Type FRX-G (finish rating 24 min), Type IP-AR (finish rating 24 min), Type IPC-AR (finish rating 24 min)

USG BORAL DRYWALL SFZ LLC — Types C, SCX, SGX (finish rating 24 min).

USG MEXICO S A DE C V — Type AR (finish rating 24 min), Type C (finish rating 24 min), Type WRX (finish rating 24 min), Type WRC (finish rating 24 min), Type IP-X1 (finish rating 24 min), Type IP-X2 (finish rating 24 min), Type SHX (finish rating 24 min), Type SCX, Type IP-AR (finish rating 24 min), Type IPC-AR (finish rating 24 min)

3B. Gypsum Board* — (As an alternate to Item 3) — Nom 3/4 in. thick, installed with 1-7/8 in. long cement coated nails as described in Item 3 or 1-3/8 in. long Type W coarse thread gypsum panel steel screws as described in Item 3A.
CGC INC — Types AR, IP-AR

UNITED STATES GYPSUM CO — Types AR, IP-AR

USG MEXICO S A DE C V — Types AR, IP-AR

3C. Gypsum Board* — (As an alternate to Items 3, 3A and 3B) — 5/8 in. thick, 2 ft wide, tongue and groove edge, applied horizontally to one side of the assembly. Installed with 1-7/8 in. long cement coated nails as described in Item 3 or 1-1/4 in. long Type W coarse thread gypsum panel steel screws as described in Item 3A. Joint covering (Item 2) not required.
CGC INC — Type SHX

UNITED STATES GYPSUM CO — Type SHX

USG MEXICO S A DE C V — Type SHX

3D. Gypsum Board* — (As an alternate to Items 3, 3A, 3B, or 3C — Not Shown) — For Direct Application to Studs Only- Nom 5/8 in. thick lead backed gypsum panels with beveled, square or tapered edges, applied vertically. Vertical joints centered over studs and staggered min 1 stud cavity on opposite sides of studs. Wallboard secured to studs with 1-5/8 in. long Type W coarse thread gypsum panel steel screws spaced 8 in. OC at perimeter and in the field. Lead batten strips required behind vertical joints of lead backed gypsum wallboard and optional at remaining stud locations. Lead batten strips, min 1-1/2 in. wide, max 10 ft long with a max thickness of 0.125 in. placed on the face of studs and attached to the stud with two 1 in. long Type S-12 pan head steel screws, one at the top of the strip and one at the bottom of the strip. Lead discs or tabs may be used in lieu of or in addition to the lead batten strips or optional at other locations. Max 3/4 in. diam by max 0.125 in. thick lead discs compression fitted or adhered over steel screw heads or max 1/2 in. by 1-1/4 in. by max 0.125 in. thick lead tabs placed on gypsum boards underneath screw locations prior to the installation of the screws. Lead batten strips to have a purity of 99.9% meeting the Federal specification QQ-L-201f, Grade "C".
RAY-BAR ENGINEERING CORP — Type RB-LBG (finish rating 24 min)

3E. Gypsum Board* — (As an alternate to Items 3, 3A, 3B, 3C, and 3D) — 5/8 in. thick gypsum panels, with square edges, applied either horizontally or vertically. Gypsum panels fastened to framing with 1-1/4 in. long Type W coarse thread gypsum panel steel screws spaced a max 8 in. OC, with last 2 screws 1 and 4 in. from edge of board or nailed 7 in. OC with 6d cement coated nails 1-7/8 in. long, 0.0915 in. shank diam and 15/64 in. diam heads. When used in widths of other than 48 in., gypsum boards are to be installed horizontally.
GEORGIA-PACIFIC GYPSUM L L C — Type DGG (finish rating 20 min), GreenGlass Type X (finish rating 23 min)

3F. Gypsum Board* — (As an alternate to Items 3, 3A, 3B, 3C, 3D, and 3E) — 5/8 in. glass-mat faced with square edges, applied either horizontally or vertically. Gypsum panels nailed 7 in. OC around the perimeter and in the field with 6d cement coated nails 1-7/8 in. long, 0.0915 in. shank diam and 15/64 in. diam heads. Nails shall be placed 1 inch and 3 inch from horizontal joints and 7 inch OC thereafter.
CGC INC — Type USGX (finish rating 22 min)

UNITED STATES GYPSUM CO — Type USGX (finish rating 22 min.)

USG BORAL DRYWALL SFZ LLC — , Type USGX (finish rating 22 min.)

USG MEXICO S A DE C V — Type USGX (finish rating 22 min.)

3G. Gypsum Board* — (As an alternate to Items 3 through 3F) — 5/8 in. thick paper surfaced applied vertically. Gypsum panels nailed 7 in. OC with 6d cement coated nails 1-7/8 in. long, 0.0915 in. shank diam and 15/64 in. diam heads.
GEORGIA-PACIFIC GYPSUM L L C — Type X ComfortGuard Sound Deadening Gypsum Board (finish rating 27 min)

3H. Gypsum Board* — (As an alternate to Items 3) — Not to be used with items 6 or 7. 5/8 in. thick paper surfaced applied vertically only. Gypsum panels nailed 7 in. OC with 6d cement coated nails 1-7/8 in. long, 0.0915 in. shank diam and 15/64 in. diam heads.
NATIONAL GYPSUM CO — Type SBWB

3I. Gypsum Board* — (As an alternate to Items 3 through 3H, Not Shown) — Nominal 5/8 in. thick, 4 ft wide panels, applied vertically. Panels nailed 7 in. OC with 6d cement coated nails 1-7/8 in. long, 0.0915 in. shank diam and 15/64 in. diam heads. Panel joints covered with paper tape and two layers of joint compound. Nailheads covered with two layers of joint compound.
PABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM — Type QuietRock ES (finish rating 20 min)

3J. Gypsum Board* — (As an alternate to Item 3) — 5/8 in. thick paper surfaced applied vertically or horizontally. Gypsum panels secured with 1-1/4 in. Type W coarse thread gypsum panel steel screws spaced a maximum of 12 in. OC.
CERTAINTEED GYPSUM INC — Type SilentFX

3K. Gypsum Board* — (As an alternate to Item 3) — 5/8 in. thick gypsum panels, with beveled, square, or tapered edges, applied either horizontally or vertically. Gypsum panels fastened to framing with 1-1/4 in. long Type W coarse thread gypsum panel steel screws spaced a maximum 8 in. OC with the last screw 1 in. from the edge of the board. When used in widths other than 48 in., gypsum panels are to be installed horizontally.
NATIONAL GYPSUM CO — Type FSK (finish rating 20 min), Type FSK-G (finish rating 20 min), Type FSW (finish rating 20 min), Type FSW-2 (finish rating 24 min), Type FSW-3 (finish rating 20 min), Type FSW-5 (finish rating 22 min), Type FSW-G (finish rating 20 min), Type FSK-C (finish rating 20 min), Type FSW-C (finish rating 20 min), Type FSMR-C, Type FSW-6 (finish rating 20 min), Type FSL (finish rating 24 min).

3L. Gypsum Board* — (As an alternate to Item 3) — For Direct Application to Studs Only — Nom 5/8 in. thick lead backed gypsum panels with beveled, square or tapered edges, applied vertically. Vertical joints centered over studs and staggered min 1 stud cavity on opposite sides of studs. Wallboard secured to studs with 1-5/8 in. long Type W coarse thread gypsum panel steel screws spaced 8 in. OC at perimeter and in the field. Lead batten strips required behind vertical joints of lead backed gypsum wallboard and optional at remaining stud locations. Lead batten strips, min 2 in. wide, max 10 ft long with a max thickness of 0.140 in. placed on the face of studs and attached to the stud with two 1 in. long Type S-8 pan head steel screws, one at the top of the strip and one at the bottom of the strip. Lead discs, max 5/16 in. diam by max 0.140 in. thick. compression fitted or adhered over the screw heads. Lead batten strips to have a purity of 99.5% meeting the Federal specification QQ-L-201f, Grades "B, C or D".
MAYCO INDUSTRIES INC — "X-Ray Shielded Gypsum"

3M. Gypsum Board* — (As an alternate to Items 3) — For Direct Application to Studs Only — For use as the base layer or as the face layer. Nom 5/8 in. thick lead backed gypsum panels with beveled, square or tapered edges, applied vertically. Vertical joints centered over studs and staggered min 1 stud cavity on opposite sides of studs. Wallboard secured to studs with 1-5/8 in. long Type W coarse thread gypsum panel steel screws spaced 8 in. OC at perimeter and in the field when applied as the base layer. When applied as the face layer screw length to be increased to 2-1/2 in. Lead batten strips required behind vertical joints of lead backed gypsum wallboard and optional at remaining stud locations. Lead batten strips, min 2 in. wide, max 8 ft long with a max thickness of 0.14 in. placed on the face of studs and attached to the stud with construction adhesive and two 1 in. long Type S-12 pan head steel screws, one at the top of the strip and one at the bottom of the strip. Lead discs, nominal 3/8 in. diam by max 0.085 in. thick. Compression fitted or adhered over the screw heads. Lead batten strips and discs to have a purity of 99.9% meeting the Federal specification QQ-L-201f, Grade "C". Fasteners for face layer gypsum panels (Items 4, 4A or 4B) when installed over lead backed board to be min 2-1/2 in. Type S-12 bugle head steel screws spaced as described in Item 4.
RADIATION PROTECTION PRODUCTS INC — Type RPP - Lead Lined Drywall

3N. Gypsum Board* — (As an alternate to Item 3) — 5/8 in. thick, 4 ft. wide, applied horizontally or vertically with vertical joints centered over studs and staggered one stud cavity on opposite sides of studs. Secured as described in Item 3 or 3A.
CERTAINTEED GYPSUM INC — Easi-Lite Type X (finish rating 24 min), Easi-Lite Type X-2 (finish rating 24 min)

3O. Wall and Partition Facings and Accessories* — (As an alternate to Item 3, Not Shown) — Nominal 5/8 in. thick, 4 ft wide panels, applied vertically. Panels nailed 7 in. OC with 6d cement coated nails 1-7/8 in. long, 0.0915 in. shank diam and 15/64 in. diam heads. Panel joints covered with paper tape and two layers of joint compound. Nailheads covered with two layers of joint compound.
PABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM — Type QuietRock 527 (finish rating 24 min).

3P. Gypsum Board* — (As an alternate to Item 3, Not Shown) — Two layers nom. 5/16 in. thick gypsum panels applied vertically or horizontally. Horizontal edge joints and horizontal butt joints on opposite sides of studs need not be staggered or backed by wood studs. Horizontal joints on the same side between face and base layers need not be staggered. Base layer gypsum panels fastened to studs with 1-1/4 in. long drywall nails spaced 8 in. OC. Face layer gypsum panels fastened to studs with 1-7/8 in. long drywall nails spaced 8 in. OC starting with a 4" stagger.
NATIONAL GYPSUM CO — Type FSW (finish rating 25 min)

3Q. Gypsum Board* — (As an alternate to Item 3) — 5/8 in. thick gypsum panels, with beveled, square, or tapered edges, applied either horizontally or vertically. Gypsum panels fastened to framing with 1-1/4 in. long Type W coarse thread gypsum panel steel screws spaced a maximum 10 in. OC with the last two screws 4 and 1 in. from the edges of the board. When used in widths other than 48 in., gypsum panels are to be installed horizontally.
CERTAINTEED GYPSUM INC — Type LGFC6A (finish rating 21 min), Type LGFC2A, Type LGFC-C/A, Type LGFC-WD, Type LGLLX

3R. Gypsum Board* — (As an alternate to Item 3. For use with Item 5H) — Any 5/8 in. thick, 4 ft. wide, Gypsum Board listed in Item 3 above. Applied either horizontally or vertically, and screwed to panels with 1-5/8 in. long Type W coarse thread steel screws at 8 in. OC at perimeter and in the field with the last two screws 4 and 3/4 in. from the edges of the board when applied as the base layer. When used in widths other than 48 in., gypsum panels are to be installed horizontally.
3S. Gypsum Board* — 3/4 in. thick paper or vinyl surfaced, with beveled, square, or tapered edges, applied either horizontally or vertically. Gypsum panels secured as described in Item 3 with nail length increased to 2 in.
PABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM — Type PG-13

3T. Wall and Partition Facings and Accessories* — (As an alternate to 5/8 in. thick board as outlined in Item 3) — Nominal 1-3/8 in. thick, 4 ft wide panels, applied vertically or horizontally. Fastened with #6 x 2 in. long drywall screws spaced 8 in. OC along the perimeter and 12 in. OC in the field.
PABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM — Type QuietRock 545

3U. Gypsum Board* — (As an alternate to Item 3 - For use with Foamed Plastic products, Item 5J) — 5/8 in. thick, 4 ft. wide, applied vertically with vertical joints centered over studs and staggered one stud cavity on opposite sides of studs. Gypsum panels nailed 7 in. OC with 6d cement coated nails 1-7/8 in. long, 0.0915 in. shank diam and 15/64 in. diam heads.
AMERICAN GYPSUM CO — Types AGX-1

BEIJING NEW BUILDING MATERIALS PUBLIC LTD CO — Type DBX-1

CABOT MANUFACTURING ULC — Type X

CERTAINTEED GYPSUM INC — Type X

CGC INC — Type SCX

PANEL REY S A — Type PRX

SIAM GYPSUM INDUSTRY (SARABURI) CO LTD — Type EX-1

THAI GYPSUM PRODUCTS PCL — Type X

UNITED STATES GYPSUM CO — Types SCX and SGX

USG BORAL DRYWALL SFZ LLC — Types SCX and SGX

USG MEXICO S A DE C V — Type SCX

3V. Gypsum Board* — (As an alternate to Item 3. For use with Item 5K) — Any 5/8 in. thick, 4 ft. wide, Gypsum Board listed in Item 3 above. Applied vertically with vertical joints centered over studs and staggered one stud cavity on opposite sides of studs. Gypsum panels secured to studs with 1-5/8 in. long Type W coarse thread gypsum panel steel screws spaced 8 in. OC at perimeter and in the field.
4. Steel Corner Fasteners — (Optional) — For use at wall corners. Channel shaped, 2 in. long by 1 in. high on the back side with two 1/8 in. wide cleats protruding into the 5/8 in. wide channel, fabricated from 24 gauge galv steel. Fasteners applied only to the end or cut edge (not along tapered edges) of the gypsum board, no greater than 2 in. from corner of gypsum board, max spacing 16 in. OC. Nailed to adjacent stud through tab using one No. 6d cement coated nail per fastener. Corners of wall board shall be nailed to top and bottom plate using No. 6d cement coated nails.
5. Batts and Blankets* — (Optional — Required when Item 6A is used (RC-1)) — Glass fiber or mineral wool insulation. Placed to completely or partially fill the stud cavities. When Item 6A is used, glass fiber or mineral wool insulation shall be friction-fitted to completely fill the stud cavities.
CERTAINTEED CORP

JOHNS MANVILLE

KNAUF INSULATION LLC

MANSON INSULATION INC

ROCKWOOL — Types Acoustical Fire Batts and Type AFB, min. density 1.69 pcf / 27.0 kg/m3

ROCKWOOL MALAYSIA SDN BHD — Type Acoustical Fire Batts

ROCK WOOL MANUFACTURING CO — Delta Board

THERMAFIBER INC — Type SAFB, SAFB FF

5A. Fiber, Sprayed* — (Not Shown — Not for use with Item 6) — As an alternate to Batts and Blankets (Item 5) — Spray applied cellulose material. The fiber is applied with water to completely fill the enclosed cavity in accordance with the application instructions supplied with the product with a nominal dry density of 2.7 lb/ft3. Alternate Application Method: The fiber is applied without water or adhesive at a nominal dry density of 3.5 lb/ft3, in accordance with the application instructions supplied with the product. When Item 6B is used, Fiber, Sprayed shall be INS735, INS745, INS750LD, INS765LD, INS773LD or SANCTUARY.

U S GREENFIBER L L C — INS735, INS745, INS750LD and SANCTUARY for use with wet or dry application. INS515LD, INS541LD, INS735, INS765LD, and INS773LD are to be used for dry application only

5B. Fiber, Sprayed* — (Not Shown - Not for use with Item 6) — As an alternate to Batts and Blankets (Item 5) - Spray applied cellulose insulation material. The fiber is applied with water to interior surfaces in accordance with the application instructions supplied with the product. Applied to completely fill the enclosed cavity. Minimum dry density of 4.3 pounds per cubic ft.
NU-WOOL CO INC — Cellulose Insulation

5C. Batts and Blankets* — Required for use with resilient channels, Item 7, 3 in. thick mineral wool batts, friction-fitted to fill interior of wall.
THERMAFIBER INC — Type SAFB, SAFB FF

5D. Glass Fiber Insulation — (As an alternate to Item 5C) — 3 in. thick glass fiber batts bearing the UL Classification Marking as to Surface Burning and/or Fire Resistance, friction-fitted to fill the interior of the wall. See Batts and Blankets (BKNV or BZJZ) Categories for names of Classified companies.
5E. Batts and Blankets* — (Required for use with Wall and Partition Facings and Accessories, Item 3D) — Glass fiber insulation, nom 3-1/2 in. thick, min. density of 0.80 pcf, with a flame spread of 25 or less and a smoke developed of 50 or less, friction-fitted to completely fill the stud cavities. See Batts and Blankets Category (BKNV) for names of manufacturers.
5F. Fiber, Sprayed* — (Optional, Not Shown — Not for use with Items 6, 6A, 6B, 6C, or 6D) — As an alternate to Batts and Blankets (Item 5) and Item 5A - Spray applied granulated mineral fiber material. The fiber is applied with adhesive, at a minimum density of 4.0 pcf, to completely fill the enclosed cavity in accordance with the application instructions supplied with the product. See Fiber, Sprayed (CCAZ).
AMERICAN ROCKWOOL MANUFACTURING, LLC — Type Rockwool Premium Plus

5G. Fiber, Sprayed* — (Optional, Not Shown — Not for use with Items 6, 6A, 6B, 6C, or 6D). — As an alternate to Batts and Blankets (Item 5) and Item 5A - Brown Colored Spray applied cellulose fiber. The fiber is applied with water to completely fill the enclosed stud cavity in accordance with the application instructions supplied with the product. The minimum dry density shall be 4.30 lbs/ft3.
INTERNATIONAL CELLULOSE CORP — Celbar-RL

5H. Foamed Plastic* — (Optional -For use with Item 3R) — Spray applied, foamed plastic insulation, at any thickness from partial fill to completely filling stud cavity.
SES FOAM INC — Nexseal™ 2.0 or Nexseal™ 2.0 LE Spray Foam and Sucraseal Spray Foam.

5I. Fiber, Sprayed* — (Not Shown — Not for use with Item 6) — As an alternate to Batts and Blankets (Item 5) - Spray-applied cellulose material. The fiber is applied with water to completely fill the enclosed cavity in accordance with the application instructions supplied with the product. To facilitate the installation of the material, any thin, woven or non-woven netting may be attached by any means possible to the outer face the studs. The material shall reach equilibrium moisture content before the installation of materials on either face of the studs. The minimum dry density shall be 5.79 lbs/ft3.
APPLEGATE HOLDINGS L L C — Applegate Advanced Stabilized Cellulose Insulation

5J. Foamed Plastic* — (Optional, Not Shown - For use with Item 3U) — Spray applied, foamed plastic insulation, at any thickness from partial fill to completely filling stud cavity.
GACO WESTERN L L C — Types GacoEZSpray F4500, GacoProFill FR6500R, Gaco 052N, GacoOnePass F1850, GacoOnePass Low GWP F1880, and Gaco WallFoam 183M

5K. Foamed Plastic* — (Optional, Not Shown - For use with Item 3V) — Spray applied, foamed plastic insulation, at any thickness from partial fill to completely filling stud cavity.
CARLISLE SPRAY FOAM INSULATION — Types SealTite Pro Closed Cell (CC), SealTite Pro Open Cell (OC), SealTite Pro OCX, SealTite Pro No Trim 21, SealTite Pro One Zero, Foamsulate Closed Cell, Foamsulate OCX, Foamsulate 70, and Foamsulate HFO.

6. Steel Framing Members* — (Optional, Not Shown) — Furring channels and Steel Framing Members as described below:
a. Furring Channels — Formed of No. 25 MSG galv steel. 2-9/16 in. or 2-23/32 in. wide by 7/8 in. deep, spaced 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Ends of adjoining channels are overlapped 6 in. and tied together with double strand of No. 18 SWG galv steel wire near each end of overlap. As an alternate, ends of adjoining channels may be overlapped 6 in. and secured together with two self-tapping #6 framing screws, min. 7/16 in. long at the midpoint of the overlap, with one screw on each flange of the channel. Gypsum board attached to furring channels as described in Item 3.
b. Steel Framing Members* — Used to attach furring channels (Item 6a) to studs. Clips spaced 48 in. OC. RSIC-1 and RSIC-1 (2.75) clips secured to studs with No. 8 x 2-1/2 in. coarse drywall screw through the center grommet. RSIC-V and RSIC-V (2.75) clips secured to studs with No. 8 x 1-1/2 in. coarse drywall screw through the center hole. Furring channels are friction fitted into clips. RSIC-1 and RSIC-V clips for use with 2-9/16 in. wide furring channels. RSIC-1 (2.75) and RSIC-V (2.75) clips for use with 2-23/32 in. wide furring channels.
PAC INTERNATIONAL L L C — Types RSIC-1, RSIC-V, RSIC-1 (2.75), RSIC-V (2.75)

6A. Steel Framing Members* — (Optional, Not Shown) — Furring channels and Steel Framing Members on one side of studs as described below:
a. Furring Channels — Formed of No. 25 MSG galv steel, spaced 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Ends of adjoining channels are overlapped 6 in. and tied together with double strand of No. 18 SWG galv steel wire near each end of overlap. Batts and Blankets placed in stud cavity as described in Item 5. Two layers of gypsum board attached to furring channels as described in Item 3.
b. Steel Framing Members* — Used to attach furring channels (Item 6Aa) to one side of studs only. Clips spaced 48 in. OC., and secured to studs with two No. 8 x 2-1/2 in. coarse drywall screws, one through the hole at each end of the clip. Furring channels are friction fitted into clips.
KINETICS NOISE CONTROL INC — Type Isomax

6B. Steel Framing Members* — (Optional, Not Shown) — Furring channels and Steel Framing Members as described below:
a. Furring Channels — Formed of No. 25 MSG galv steel. 2-3/8 in. wide by 7/8 in. deep, spaced 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Ends of adjoining channels are overlapped 6 in. and tied together with double strand of No. 18 SWG galv steel wire near each end of overlap. As an alternate, ends of adjoining channels may be overlapped 6 in. and secured together with two self-tapping #6 framing screws, min. 7/16 in. long at the midpoint of the overlap, with one screw on each flange of the channel. Gypsum board attached to furring channels as described in Item 3.
b. Steel Framing Members* — Used to attach furring channels (Item 6Ba) to studs. Clips spaced 48 in. OC. Genie clips secured to studs with No. 8 x 1-1/2 in. coarse drywall screw through the center hole. Furring channels are friction fitted into clips.
PLITEQ INC — Type Genie Clip

6C. Steel Framing Members* — (Optional, Not Shown) — Furring channels and Steel Framing Members as described below:
a. Furring Channels — Formed of No. 25 MSG galv steel. Spaced 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Ends of adjoining channels overlapped 6 in. and tied together with double strand of No. 18 AWG galvanized steel wire. Gypsum board attached to furring channels as described in Item 3.
b. Steel Framing Members* — Used to attach furring channels (Item 6Ca) to studs. Clips spaced 48 in. OC., and secured to studs with No. 2 in. coarse drywall screw with 1 in. diam washer through the center hole. Furring channels are friction fitted into clips.
STUDCO BUILDING SYSTEMS — RESILMOUNT Sound Isolation Clips - Type A237 or A237R

6D. Steel Framing Members* — (Optional, Not Shown) — Furring channels and Steel Framing Members as described below:
a. Furring Channels — Formed of No. 25 MSG galv steel, spaced 24 in. OC, and perpendicular to studs. Channels secured to studs as described in Item b. Ends of adjoining channels overlapped 6 in. and secured in place with a double strand of No. 18 AWG twisted steel wire. Gypsum board attached to furring channels as described in Item 3.
b. Steel Framing Members* — Used to attach furring channels (Item 6Da) to studs. Clips spaced 48 in. OC., and secured to studs with No. 8 x 2-1/2 in. coarse drywall screw through the center hole. Furring channels are friction fitted into clips.
REGUPOL AMERICA — Type SonusClip

6E. Steel Framing Members* — (Optional, Not Shown) — Resilient channels and Steel Framing Members as described below:
a. Resilient Channels — Formed of No. 25 MSG galv steel, spaced 24 in. OC, and perpendicular to studs. Channels secured to studs as described in Item b. Ends of adjoining channels overlapped 6 in. and secured in place with two No. 8 15 x 1/2 in. Philips Modified Truss screws spaced 2-1/2 in. from the center of the overlap. Gypsum board attached to resilient channels as described in Item 3.
b. Steel Framing Members* — Used to attach resilient channels (Item 6Ea) to studs. Clips spaced 48 in. OC., and secured to studs with No. 8 x 2-1/2 in. coarse drywall screw through the center hole. Resilient channels are secured to clips with one No. 10 x 1/2 in. pan-head self-drilling screw.
KEENE BUILDING PRODUCTS CO INC - Type RC+ Assurance Clip

6F. Steel Framing Members* — (Optional, Not Shown) — Furring channels and Steel Framing Members as described below:
a. Furring Channels — Formed of No. 25 MSG galv steel. 2-23/32 in. wide by 7/8 in. or 1-1/2 in. deep, spaced 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Ends of adjoining channels are overlapped 6 in. and tied together with double strand of No. 18 SWG galv steel wire near each end of overlap. As an alternate, ends of adjoining channels may be overlapped 6 in. and secured together with two self-tapping #6 framing screws, min. 7/16 in. long at the midpoint of the overlap, with one screw on each flange of the channel. Gypsum board attached to furring channels as described in Item 3.
b. Steel Framing Members* — Used to attach furring channels (Item 6Fa) to studs. Clips spaced 48 in. OC. Clips secured to studs with No. 8 x 2-1/2 in. coarse drywall screw through the center grommet. Furring channels are friction fitted into clips.
CLARKDIETRICH BUILDING SYSTEMS — Type ClarkDietrich Sound Clip

6G. Steel Framing Members* — (Optional, Not Shown) — Used as an alternate method to attach resilient channels to wall studs. A resilient sound isolation accessory shall be used at each attachment point of the resilient channels and spaced max 16 in. O.C. Channel ends butted and centered under the structural members and attached with one accessory at each end. Additional accessories used to hold resilient channels that support the gypsum board end joints. The accessory envelops the mounting edge of the resilient channel. The accessory and resilient channel are fastened to the structural members with the screws supplied with the accessory and per the accessory manufacturer's installation instructions.
PAC INTERNATIONAL L L C — Type RC-1 Boost

7. Furring Channel — Optional — Not Shown — For use on one side of the wall - Resilient channels, 25 MSG galv steel, spaced vertically 24 in. OC, flange portion screw attached to one side of studs with 1-1/4 in. long diamond shaped point, double lead Phillips head steel screws. When resilient channels are used, insulation, Items 5C or 5D is required.
8. Caulking and Sealants — (Not Shown, Optional) — A bead of acoustical sealant applied around the partition perimeter for sound control.
9. STC Rating — The STC Rating of the wall assembly is 56 when it is constructed as described by Items 1 through 6, except:
A. Item 2, above — Nailheads Shall be covered with joint compound.
B. Item 2, above — Joints As described, shall be covered with fiber tape and joint compound.
C. Item 5, above — Batts and Blankets* The cavities formed by the studs shall be friction fit with R-19 unfaced fiberglass insulation batts measuring 6-1/4 in. thick and 15-1/4 in. wide.
D. Item 6, above — Steel Framing Members* Type RSIC-1 clips shall be used to attach gypsum board to studs on either side of the wall assembly.
E. Item 8, above — Caulking and Sealants (Not Shown) A bead of acoustical sealant shall be applied around the partition perimeter for sound control.
F. Steel Corner Fasteners (Item 4), Fiber, Sprayed (Items 5A and 5B) and Steel Framing Members (Item 6A), not evaluated as alternatives for obtaining STC rating.
10. Wall and Partition Facings and Accessories* — (Optional, Not Shown) — Nominal 1/2 in. thick, 4 ft wide panels, for optional use as an additional layer on one or both sides of the assembly. Panels attached in accordance with manufacturer's recommendations. When the QR-500 or QR-510 panel is installed between the wood framing and the UL Classified gypsum board, the required UL Classified gypsum board layer(s) is/are to be installed as indicated as to fastener type and spacing, except that the required fastener length shall be increased by a minimum of 1/2 in. Not evaluated or intended as a substitute for the required layer(s) of UL Classified Gypsum Board.
PABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM — Type QuietRock QR-500 and QR-510

11. Cementitious Backer Units* — (Optional Item Not Shown — For Use On Face Of 1 Hr Systems With All Standard Items Required) - 7/16 in., 1/2 in., 5/8 in., 3/4 in. or 1 in. thick, min. 32 in. wide. Applied vertically or horizontally with vertical joints centered over studs. Fastened to studs and runners with cement board screws of adequate length to penetrate stud by a minimum of 3/8 in. for steel framing members, and a minimum of 3/4 in. for wood framing members spaced a max of 8 in. OC. When 4 ft. wide boards are used, horizontal joints need not be backed by framing.
NATIONAL GYPSUM CO — Type DuraBacker, PermaBase, DuraBacker Plus, or PermaBase Plus

12. Non-Bearing Wall Partition Intersection — (Optional) —Two nominal 2 by 4 in. studs or nominal 2 by 6 in. studs nailed together with two 3 in. long 10d nails spaced a max. 16 in. OC. vertically and fastened to one side of the minimum 2 by 4 in. stud with 3 in. long 10d nails spaced a max. 16 in. OC. vertically. Intersection between partition wood studs to be flush with the 2 by 4 in. studs. The wall partition wood studs are to be framed by with a second 2 by 4 in. wood stud fastened with 3 in. long 10d nails spaced a max. 16 in. OC. vertically. Maximum one non-bearing wall partition intersection per stud cavity. Non-bearing wall partition stud depth shall be at a minimum equal to the depth of the bearing wall.
13. Mesh Netting — (Not Shown) — Any thin, woven or non-woven fibrous netting material attached with staples to the outer face of one row of studs to facilitate the installation of the sprayed fiber from the opposite row.
14. Mineral and Fiber Board* — (Optional, Not Shown) — For optional use as an additional layer on one side of wall. Nom 1/2 in. thick, 4 ft wide with long dimension parallel and centered over studs. Attached to framing with 2 in. long Type W steel screws, spaced 12 in. OC. The required UL Classified gypsum board layer(s) is/are to be installed as indicated as to fastener type and spacing, except that the required fastener length shall be increased by a minimum of 1/2 in. Not evaluated or intended as a substitute for the required layer(s) of UL Classified Gypsum Board.
HOMASOTE CO — Homasote Type 440-32

14A. Mineral and Fiber Board* — (Optional, Not Shown) — For use with Items 14B-14E) — For optional use as an additional layer on one side of wall. Nom 1/2 in. thick, 4 ft wide with long dimension parallel and centered over studs. Attached to framing with minimum 1-3/8 in. long ring shanked nails or 1-1/4 in. long Type W steel screws, spaced 12 in. OC along board edges and 24 in. OC in field of board along intermediate framing. Not evaluated or intended as a substitute for the required layer(s) of UL Classified Gypsum Board.
HOMASOTE CO — Homasote Type 440-32

14B. Glass Fiber Insulation — (For use with Item 14A) — 3-1/2 in. thick glass fiber batts bearing the UL Classification Marking as to Surface Burning and/or Fire Resistance, placed to fill the interior of the wall. See Batts and Blankets (BKNV or BZJZ) categories for names of Classified companies.
14C. Batts and Blankets* — (As an alternate to Item 14B, For use with Item 14A), 3 in. thick mineral wool batts, placed to fill interior of wall, attached to the 3-1/2 in. face of the studs with staples placed 24 in. OC.
THERMAFIBER INC — Type SAFB, SAFB FF

14D. Adhesive — (For use with Item 14A) — Construction grade adhesive applied in vertical, serpentine, nominal 3/8 in. wide beads down the length of both vertical edges of Mineral and Fiber Board (Item 14A).
14E. Gypsum Board* — (For use with Item 14A) — 5/8 in. thick, 4 ft wide, applied vertically over Mineral and Fiber Board (Item 14A) with vertical joints located anywhere over stud cavities. Secured to mineral and fiber boards with 1-1/2 in. Type G Screws spaced 8 in. OC along edges of each vertical joint and 12 in. OC in intermediate field of the Mineral and Fiber Board (Item 14A). Secured to outermost studs and bearing plates with 2 in. long Type S screws spaced 8 in. OC. Gypsum Board joints covered with paper tape and joint compound. Screw heads covered with joint compound. Finish Rating 30 Min.
AMERICAN GYPSUM CO — Type AG-C

CERTAINTEED GYPSUM INC — Type C

CGC INC — Types C, IP-X2, IPC-AR

CERTAINTEED GYPSUM INC — Type LGFC-C/A

GEORGIA-PACIFIC GYPSUM L L C — Types 5, DAPC, TG-C

NATIONAL GYPSUM CO — Types FSK-C, FSW-C

PABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM — Type PG-C

PANEL REY S A — Type PRC

THAI GYPSUM PRODUCTS PCL — Type C

UNITED STATES GYPSUM CO — Types C, IP-X2, IPC-AR

USG BORAL DRYWALL SFZ LLC — Type C

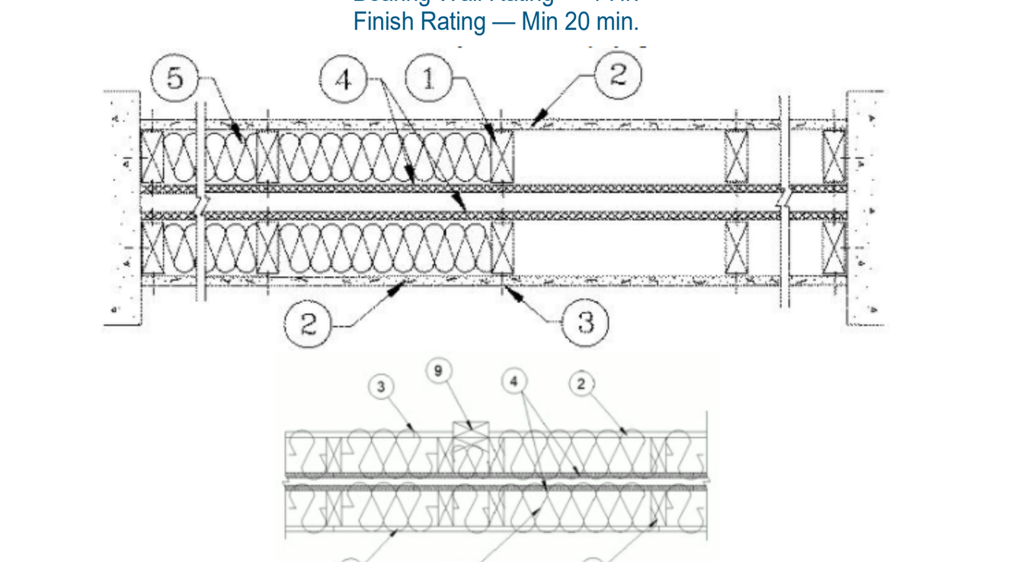
USG MEXICO S A DE C V — Types C, IP-X2, IPC-AR

14F. Mineral and Fiber Board — (Optional, Not Shown) — For optional use as an additional layer on one side of wall - Nom 1/2 in. thick, 4 ft wide, square edge fiber boards applied vertically to studs on one side of the wall in between the wood studs and the UL Classified Gypsum Board (Item 3). Fiber boards installed with 1-1/4 in. long, Type W, bugle head, coarse thread gypsum board screws spaced 12 in. OC max, with the last screws spaced 2 in. and 6 in. from edge of board. Gypsum board (Item 3) installed as indicated as to fastener type and spacing, except that the required fastener length shall be increased by a minimum of 1/2 in. Not evaluated or intended as a substitute for the required layer(s) of UL Classified Gypsum Board.
BLUE RIDGE FIBERBOARD INC — SoundStop

* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.

Design No. U341

July 29, 2021
Bearing Wall Rating — 1 Hr.
Finish Rating — Min 20 min.



HORIZONTAL SECTION
1. Wood Studs — Nom 2 by 4 in., spaced 24 in. OC max. Cross braced at mid-height and effectively firestopped at top and bottom of wall. No min. air space between stud rows except to accommodate attachment of sheathing, where required. See items 4 and 5.
2. Gypsum Board* — Any 5/8 in. thick UL Classified Gypsum Board that is eligible for use in Design Nos. L501, G512 or U305. Nom 5/8 in. thick 4 ft wide. Gypsum board applied horizontally or vertically, unless specified below, and nailed to studs and bearing plates 7 in. OC with 6d cement coated nails, 1-7/8 in. long, 0.0915 in. shank diam and 1/4 in. diam head. As an alternate, No. 6 bugle head drywall screws, 1-7/8 in. long, may be substituted for the 6d cement coated nails.
When Steel Framing Members* (Item 6 or any alternate clips) are used, wallboard attached to furring channels with 1 in. long Type S bugle-head steel screws spaced 12 in. OC.

When used in widths other than 48 in., gypsum board to be installed horizontally.

AMERICAN GYPSUM CO (View Classification) — CKNX.R14196

BEIJING NEW BUILDING MATERIALS PUBLIC LTD CO (View Classification) — CKNX.R19374

CABOT MANUFACTURING ULC (View Classification) — CKNX.R25370

CERTAINTEED GYPSUM INC (View Classification) — CKNX.R3660

CGC INC (View Classification) — CKNX.R19751

CERTAINTEED GYPSUM INC (View Classification) — CKNX.R18482

GEORGIA-PACIFIC GYPSUM L L C (View Classification) — CKNX.R2717

LOADMASTER SYSTEMS INC (View Classification) — CKNX.R11809

NATIONAL GYPSUM CO (View Classification) — CKNX.R3501

PABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM (View Classification) — CKNX.R7094

PANEL REY S A (View Classification) — CKNX.R21796

SIAM GYPSUM INDUSTRY (SARABURI) CO LTD (View Classification) — CKNX.R19262

THAI GYPSUM PRODUCTS PCL (View Classification) — CKNX.R27517

UNITED STATES GYPSUM CO (View Classification) — CKNX.R1319

USG BORAL DRYWALL SFZ LLC (View Classification) — CKNX.R38438

USG BORAL DRYWALL SFZ LLC (View Classification) — CKNX.R38438

USG MEXICO S A DE C V (View Classification) — CKNX.R16089

2A. Gypsum Board* — (As an alternate to Item 2, not shown) — Nominal 5/8 in. thick, 4 ft wide panels, applied vertically to studs and bearing plates on one side of the assembly with 1-5/8 in. long Type S screws spaced 12 in. OC at perimeter of panels and 8 in. OC in the field. Horizontal joints of vertically applied panels need not be backed by studs. Panel joints covered with paper tape and two layers of joint compound. Screwheads covered with two layers of joint compound. Batts and Blankets placed in stud cavity as described in Item 5C. Not evaluated for use with Steel Framing Members, Furring Channels or Fiber, Sprayed.
PABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM — Type QuietRock QR-530 (finish rating 23 min).

2B. Gypsum Board* — (As an alternate to Item 2, not shown) — Any 5/8 in. thick gypsum panels that are eligible for use in Design Nos. L501, G512 or U305, supplied by the Classified companies listed below shown in the Gypsum Board* (CKNX) category. Applied horizontally or vertically and attached to studs and bearing plates with 1-1/4 in. long Type W coarse thread gypsum panel steel screws spaced a max 8 in. OC, with last screw 1 in. from edge of board. When used in widths other than 48 in., gypsum board to be installed horizontally.
UNITED STATES GYPSUM CO

USG BORAL DRYWALL SFZ LLC

USG MEXICO S A DE C V

2C. Gypsum Board* — (As an alternate to Item 2, Not Shown) — 5/8 in. thick gypsum panels applied horizontally or vertically and attached to studs and bearing plates with 1-1/4 in. long Type W coarse thread gypsum panel steel screws spaced a max 8 in. OC, with last screw 1 in. from edge of board. When used in widths other than 48 in., gypsum board to be installed horizontally.
AMERICAN GYPSUM CO — Types AGX-1, M-Glass, AG-C, LightRoc

CERTAINTEED GYPSUM INC — Type C, Type X or Type X-1

NATIONAL GYPSUM CO — Type FSK, Type FSK-G, Type FSW, Type FSW-3, Type FSW-5, Type FSW-G, Type FSK-C, Type FSW-C, Type FSMR-C, Type FSW-6, Type FSL

THAI GYPSUM PRODUCTS PCL — Type C or Type X

2D. Gypsum Board* — (As an alternate to Items 2, 2A, 2B and 2C) — 5/8 in. thick gypsum panels, with square edges, applied either horizontally or vertically. Gypsum panels fastened to framing with 1-1/4 in. long Type W coarse thread gypsum panel steel screws spaced a max 8 in. OC, with last 2 screws 1 and 4 in. from edge of board or nailed as described in Item 2. When used in widths of other than 48 in., gypsum boards are to be installed horizontally.
GEORGIA-PACIFIC GYPSUM L L C — GreenGlass Type X, Type DGG.

2E. Gypsum Board* — (As an alternate to Items 2 through 2D) — 5/8 in. thick, 4 ft. wide, paper surfaced applied vertically only and secured as described in Item 2.
GEORGIA-PACIFIC GYPSUM L L C — Type X ComfortGuard Sound Deadening Gypsum Board.

2F. Gypsum Board* — (As an alternate to Items 2 through 2E) - Installed as described in Item 2. 5/8 in. thick, 4 ft. wide, paper surfaced, applied vertically only and fastened to the studs and plates with 6d cement coated nails 1-7/8 in. long, 0.0915 in. shank diam and 1/4 in. diam heads, 7 in. OC. Not for use with item #6.
NATIONAL GYPSUM CO — Type SBWB

2G. Gypsum Board* — (As an alternate to Items 2 through 2F) — Nominal 5/8 in. thick, 4 ft wide panels, applied vertically and secured as described in Item 2.
PABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM — Types QuietRock ES.

2H. Gypsum Board* — (As an alternate to Items 2 through 2G) — Installed as described in Item 2. 5/8 in. thick, 4 ft. wide, paper surfaced, applied vertically or horizontally fastened to the studs and plates with 1-1/4 in. long Type W coarse thread gypsum panel steel screws spaced a max 8 in. OC, with last screw 1 in. from edge of board.
CERTAINTEED GYPSUM INC — Type SilentFX

2I. Wall and Partition Facings and Accessories* — (As an alternate to Items 2 through 2H) — Nominal 5/8 in. thick, 4 ft wide panels, applied vertically and secured as described in Item 2.
PABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM — Type QuietRock 527.

2J. Gypsum Board* — (As an alternate to 5/8 in. Type FSW in Item 2) — 2 layers nom. 5/16 in. thick gypsum panels applied vertically or horizontally. Horizontal joints on the same side need not be staggered. Inner layer attached with fasteners, as described in item 2, spaced 24 in. OC. Outer layer attached per Item 2.
NATIONAL GYPSUM CO — Type FSW.

2K. Gypsum Board* — (As an alternate to Item 2) — 5/8 in. thick gypsum panels, with beveled, square, or tapered edges, applied either horizontally or vertically. Gypsum panels fastened to framing with 1-1/4 in. long Type W coarse thread gypsum panel steel screws spaced a maximum 10 in. OC with the last two screws 4 and 1 in. from the edges of the board. When used in widths other than 48 in., gypsum panels are to be installed horizontally.
CERTAINTEED GYPSUM INC — Type LGFC6A (finish rating 21 min), Type LGFC2A, Type LGFC-C/A, Type LGFC-WD, Type LGLLX

3. Joints and Nailheads — Gypsum board joints of outer layer covered with tape and joint compound. Nail heads of outer layer covered with joint compound. As an alternate, nom 3/32 in. thick gypsum veneer plaster may be applied to the entire surface of Classified veneer baseboard with joints reinforced with paper tape.
4. Sheathing — (Optional) — Septum may be sheathed with min 7/16 in. thick wood structural panels min grade "C-D" or "Sheathing" or min 1/2 in. thick Mineral and Fiber Boards*.
See Mineral and Fiber Boards (CERZ) category for names of Classified companies.

5. Batts and Blankets* — 3-1/2 in. max thickness glass or mineral fiber batt insulation. Optional when sheathing (Item 4) is used on both halves of wall.
See Batts and Blankets (BZJZ) category for list of Classified companies.

5A. Fiber, Sprayed* — As an alternate to Batts and Blankets (Item 5) — Spray applied cellulose material. The fiber is applied with water to completely fill the enclosed cavity in accordance with the application instructions supplied with the product with a nominal dry density of 2.7 lb/ft3. Alternate Application Method: The fiber is applied without water or adhesive at a nominal dry density of 3.5 lb/ft3, in accordance with the application instructions supplied with the product.

U S GREENFIBER L L C — INS735, INS745, INS750LD and SANCTUARY for use with wet or dry application. INS515LD, INS541LD, INS735, INS765LD, and INS773LD are to be used for dry application only.

5B. Fiber, Sprayed* — As an alternate to Batts and Blankets (Item 5) when Sheathing (Item 4) is used on both halves of wall - Spray applied cellulose insulation material. The fiber is applied with water to interior surfaces in accordance with the application instructions supplied with the product. Applied to completely fill the enclosed cavity. Minimum dry density of 4.3 pounds per cubic ft.
NU-WOOL CO INC — Cellulose Insulation

5C. Batts and Blankets* — (Required for use with Wall and Partition Facings and Accessories, Item 2A. Use of Sheathing, Item 4, does not nullify requirement of Item 5C for use with Item 2A) — Glass fiber insulation, nom 3-1/2 in. thick, min. density of 0.80 pcf, with a flame spread of 25 or less and a smoke developed of 50 or less, friction-fitted to completely fill the stud cavities. See Batts and Blankets Category (BKNV) for names of manufacturers.
5D. Fiber, Sprayed* — As an alternate to Batts and Blankets (Item 5) and Item 5A when Sheathing (Item 4) is used on both halves of wall - Spray applied cellulose fiber. The fiber is applied with water to completely fill the enclosed cavity in accordance with the application instructions supplied with the product. The minimum dry density shall be 4.30 lbs/ft3.
INTERNATIONAL CELLULOSE CORP — Celbar-RL

5E. Fiber, Sprayed* — As an alternate to Batts and Blankets (Item 5) - Spray-applied cellulose material. The fiber is applied with water to completely fill the enclosed cavity in accordance with the application instructions supplied with the product. To facilitate the installation of the material, any thin, woven or non-woven netting may be attached by any means possible to the outer face the studs. The material shall reach equilibrium moisture content before the installation of materials on either face of the studs. The minimum dry density shall be 5.79 lbs/ft3.
APPLEGATE HOLDINGS L L C — Applegate Advanced Stabilized Cellulose Insulation

6. Steel Framing Members* — (Optional, Not Shown) — Furring channels and Steel Framing Members as described below:
A. Furring Channels — Formed of No. 25 MSG galv steel. 2-9/16 in. or 2-23/32 in. wide by 7/8 in. deep, spaced 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Ends of adjoining channels are overlapped 6 in. and tied together with double strand of No. 18 SWG galv steel wire near each end of overlap. As an alternate, ends of adjoining channels may be overlapped 6 in. and secured together with two self-tapping #6 framing screws, min. 7/16 in. long at the midpoint of the overlap, with one screw on each flange of the channel. Wallboard attached to furring channels as described in Item 2.
B. Steel Framing Members* — Used to attach furring channels (Item a) to studs (Item 1) . Clips spaced 48 in. OC., and secured to studs with No. 8 x 2-1/2 in. coarse drywall screw through the center grommet. Furring channels are friction fitted into clips. RSIC-1 clip for use with 2-9/16 in. wide furring channels. RSIC-1 (2.75) clip for use with 2-23/32 in. wide furring channels.
PAC INTERNATIONAL L L C — Types RSIC-1, RSIC-1 (2.75).

6A. Steel Framing Members* — (Optional, Not Shown, As an alternate to Item 6) — Furring channels and Steel Framing Members as described below:
a. Furring Channels — Formed of No. 25 MSG galv steel. 2-3/8 in. wide by 7/8 in. deep, spaced 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Ends of adjoining channels are overlapped 6 in. and tied together with double strand of No. 18 SWG galv steel wire near each end of overlap. As an alternate, ends of adjoining channels may be overlapped 6 in. and secured together with two self-tapping #6 framing screws, min. 7/16 in. long at the midpoint of the overlap, with one screw on each flange of the channel. Gypsum board attached to furring channels as described in Item 2.
b. Steel Framing Members* — Used to attach furring channels (Item a) to studs. Clips spaced 48 in. OC. Genie clips secured to studs with No. 8 x 1-1/2 in. coarse drywall screw through the center hole. Furring channels are friction fitted into clips.
PLITEQ INC — Type Genie Clip

6B. Steel Framing Members* — (Optional, Not Shown, As an alternate to Item 6) — Furring channels and Steel Framing Members as described below:
a. Furring Channels — Formed of No. 25 MSG galv steel. Spaced 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Ends of adjoining channels overlapped 6 in. and tied together with double strand of No. 18 AWG galvanized steel wire. Gypsum board attached to furring channels as described in Item 2.
b. Steel Framing Members* — Used to attach furring channels (Item 6Ba) to studs. Clips spaced 48 in. OC., and secured to studs with 2 in. coarse drywall screw with 1 in. diam washer through the center hole. Furring channels are friction fitted into clips.
STUDCO BUILDING SYSTEMS — RESILMOUNT Sound Isolation Clips - Type A237R

6C. Steel Framing Members* — (Optional, Not Shown, As an alternate to Item 6) — Furring channels and Steel Framing Members as described below:
A. Furring Channels — Formed of No. 25 MSG galv steel. Spaced 24 in. OC perpendicular to studs. Channels secured to studs as described in Item 6Cb. Ends of adjoining channels overlapped 6 in. and tied together with double strand of No. 18 AWG galvanized steel wire. Gypsum board attached to furring channels as described in Item 2.
B. Steel Framing Members* — Used to attach furring channels (Item 6CA) to studs. Clips spaced 48 in. OC., and secured to studs with No. 8 x 2-1/2 in. coarse drywall screw through the center hole. Furring channels are friction fitted into clips.
REGUPOL AMERICA — Type SonusClip

6D. Steel Framing Members* — (Optional, Not Shown, As an alternate to Item 6) — Resilient channels and Steel Framing Members as described below:
a. Resilient Channels — Formed of No. 25 MSG galv steel, spaced 24 in. OC, and perpendicular to studs. Channels secured to studs as described in Item b. Ends of adjoining channels overlapped 6 in. and secured in place with two No. 8 15 x 1/2 in. Philips Modified Truss screws spaced 2-1/2 in. from the center of the overlap. Gypsum board attached to resilient channels as described in Item 2.
b. Steel Framing Members* — Used to attach resilient channels (Item 6Da) to studs. Clips spaced 48 in. OC., and secured to studs with No. 8 x 2-1/2 in. coarse drywall screw through the center hole. Resilient channels are secured to clips with one No. 10 x 1/2 in. pan-head self-drilling screw.
KEENE BUILDING PRODUCTS CO INC — Type RC+ Assurance Clip

6E. Steel Framing Members* — (Optional, Not Shown, As an alternate to Item 6) — Used as an alternate method to attach resilient channels to wall studs. A resilient sound isolation accessory shall be used at each attachment point of the resilient channels and spaced max 24 in. O.C. Channel ends butted and centered under the structural members and attached with one accessory at each end. Additional accessories used to hold resilient channels that support the gypsum board end joints. The accessory envelops the mounting edge of the resilient channel. The accessory and resilient channel are fastened to the structural members with the screws supplied with the accessory and per the accessory manufacturer's installation instructions.
PAC INTERNATIONAL L L C — Type RC-1 Boost

6F Steel Framing Members* — (Optional, Not Shown, As an alternate to Item 6) — Furring channels and Steel Framing Members as described below:
a Furring Channels — Formed of No. 25 MSG galv steel. 2-23/32 in. wide by 7/8 in. or 1-1/2 in. deep, spaced 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Ends of adjoining channels are overlapped 6 in. and tied together with double strand of No. 18 SWG galv steel wire near each end of overlap. As an alternate, ends of adjoining channels may be overlapped 6 in. and secured together with two self-tapping #6 framing screws, min. 7/16 in. long at the midpoint of the overlap, with one screw on each flange of the channel. Gypsum board attached to furring channels as described in Item 2.
b Steel Framing Members* — Used to attach furring channels (Item 6Fa) to studs. Clips spaced maximum 48 in. OC. Clips secured to studs with No. 8 x 2-1/2 in. coarse drywall screw through the center grommet. Furring channels are friction fitted into clips.
CLARKDIETRICH BUILDING SYSTEMS — Type ClarkDietrich Sound Clip

7. Wall and Partition Facings and Accessories* — (Optional, Not shown) — Nominal 1/2 in. thick, 4 ft wide panels, for optional use as an additional layer on one or both sides of the assembly. Panels attached in accordance with manufacturer's recommendations. When the QR-500 or QR-510 panel is installed between the wood framing and the UL Classified gypsum board, the required UL Classified gypsum board layer(s) is/are to be installed as indicated as to fastener type and spacing, except that the required fastener length shall be increased by a minimum of 1/2 in. Not evaluated or intended as a substitute for the required layer(s) of UL Classified Gypsum Board.
PABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM — Type QuietRock QR-500 and QR-510

8. Mineral and Fiber Board* — ((Optional, Not Shown) — For optional use as an additional layer on one or both sides of wall. Nom 1/2 in. thick, 4 ft wide with long dimension parallel and centered over studs. Attached to framing as described in Item 2. The required UL Classified gypsum board layer(s) is/are to be installed as indicated as to fastener type and spacing, except that the required fastener length shall be increased by a minimum of 1/2 in. Not evaluated or intended as a substitute for the required layer(s) of UL Classified Gypsum Board.
HOMASOTE CO — Homasote Type 440-32

9. Non-Bearing Wall Partition Intersection — (Optional) — Two nominal 2 by 4 in. stud or nominal 2 by 6 in. stud nailed together with two 3in. long 10d nails spaced a max. 16 in. OC. vertically and fastened to one side of the minimum 2 by 4 in. stud with 3 in. long 10d nails spaced a max 16 in. OC. vertically. Intersection between partition wood studs to be flush with the 2 by 4 in. studs. The wall partition wood studs are to be framed by with a second 2 by 4 in. wood stud fastened with 3 in. long 10d nails spaced a max. 16 in. OC. vertically. Maximum one non-bearing wall partition intersection per stud cavity. Non-bearing wall partition stud depth shall be at a minimum equal to the depth of the bearing wall.
(Optional, Not Shown) Alternate Construction For Use On One Side Of The Wall.

10. Mineral and Fiber Board* — For use with Items 10A-10D) —Nom 1/2 in. thick, 4 ft wide with long dimension parallel and centered over studs. Attached to framing with minimum 1-3/8 in. long ring shanked nails or 1-1/4 in. long Type W steel screws, spaced 12 in. OC along board edges and 24 in. OC in field of board along intermediate framing. Not evaluated or intended as a substitute for the required layer(s) of UL Classified Gypsum Board.
HOMASOTE CO — Homasote Type 440-32

10A. Glass Fiber Insulation — (For use with Item 10) — 3-1/2 in. thick glass fiber batts bearing the UL Classification Marking as to Surface Burning and/or Fire Resistance, placed to fill the interior of the wall. See Batts and Blankets (BKNV or BZJZ) categories for names of Classified companies.
10B. Batts and Blankets* — (As an alternate to Item 10B, For use with Item 10), 3 in. thick mineral wool batts, placed to fill interior of wall, attached to the 3-1/2 in. face of the studs with staples placed 24 in. OC.
THERMAFIBER INC — Type SAFB, SAFB FF

10C. Adhesive — (For use with Item 10) — Construction grade adhesive applied in vertical, serpentine, nominal 3/8 in. wide beads down the length of both vertical edges of Mineral and Fiber Board (Item 14A).
10D. Gypsum Board* — (For use with Item 10) — 5/8 in. thick, 4 ft wide, applied vertically over Mineral and Fiber Board (Item 14A) with vertical joints located anywhere over stud cavities. Secured to mineral and fiber boards with 1-1/2 in. Type G Screws spaced 8 in. OC along edges of each vertical joint and 12 in. OC in intermediate field of the Mineral and Fiber Board (Item 10). Secured to outermost studs and bearing plates with 2 in. long Type S screws spaced 8 in. OC. Gypsum Board joints covered with paper tape and joint compound. Screw heads covered with joint compound. Finish Rating 30 Min.
AMERICAN GYPSUM CO — Type AG-C

CERTAINTEED GYPSUM INC — Type C

CERTAINTEED GYPSUM INC — Type LGFC-C/A

GEORGIA-PACIFIC GYPSUM L L C — Types 5, DAPC, TG-C

NATIONAL GYPSUM CO — Types FSK-C, FSW-C

PABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM — Type PG-C

PANEL REY S A — Type PRC

THAI GYPSUM PRODUCTS PCL — Type C

UNITED STATES GYPSUM CO — Type CTypes C, IP-X2, IPC-AR

USG BORAL DRYWALL SFZ LLC — Type C

USG MEXICO S A DE C V — Types C, IP-X2, IPC-AR

* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.

* USED WITH PERMISSION OF UL LABORATORIES

MHM

McCarty Holsaple McCarty, Inc.
550 W. Main St., Suite 300
Knoxville, TN 37902
t 865.544.2000
www.mhminc.com

Consultants:

CIVIL ENGINEER:
HUDDLESTON-STEELE ENGINEERING INC.
2112 N.W. BROAD ST.
MURFREESBORO, TN 37129
615.893.4084

LANDSCAPE ARCHITECT:
RAGAN SMITH
100 E. VINE ST., STE 200
MURFREESBORO, TN 37130
615.546.6050

STRUCTURAL ENGINEER:
HAINES STRUCTURAL GROUP
800 S. GAY ST., STE 1750
KNOXVILLE TN, 37929
865.329.9920

MECHANICAL & PLUMBING ENGINEER:
FACILITY SYSTEMS CONSULTANTS
713 S. CENTRAL ST., STE 101
KNOXVILLE TN, 37902
865.246.0164

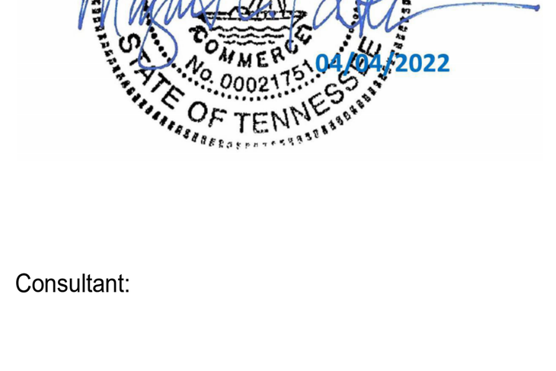
ELECTRICAL ENGINEER:
FACILITY SYSTEMS CONSULTANTS
713 S. CENTRAL ST., STE 101
KNOXVILLE TN, 37902
865.246.0164

Project Information:

21026

MHA Parkside Housing
520 EAST CASTLE STREET,
MURFREESBORO, TN 37130

Seal:



Consultant:

#	ISSUE	DATE

Issue Date:	04/04/2022
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PM	M. BUTLER
PA	G. TAYLOR
Drawn By:	Author
Checked By:	J. BRADLEY

Sheet Description:

A-013

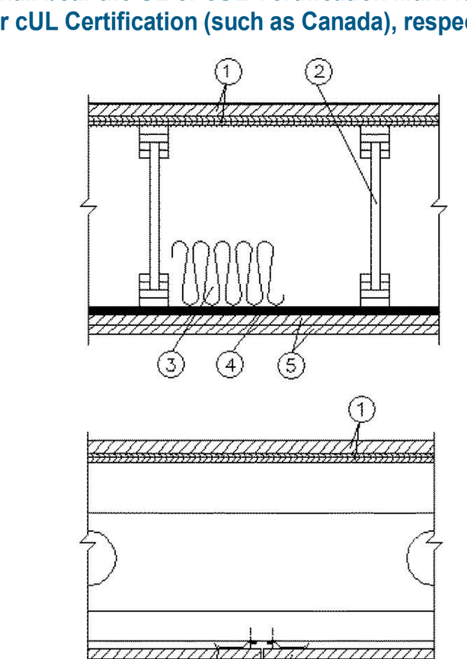
UL PARTITION DETAILS

11/15/2023 2:51:02 PM

Design No. L570
February 14, 2022

Unrestrained Assembly Rating — 1 Hr.
This design was evaluated using a load design method other than the Limit States Design Method (e.g., Working Stress Design Method). For jurisdictions employing the Limit States Design Method, such as Canada, a load restriction factor shall be used — See Guide BXUV or BXUV7

*** Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.**



1. Flooring System — The flooring system shall consist of one of the following:
System No. 1
Subflooring — Nom 19/32 in. thick wood structural panels installed perpendicular to the joists with end joints staggered. Plywood or panels secured to joists with construction adhesive and No. 6d ringed shank nails, spaced 12 in. OC along each joist. Staples having equal or greater withdrawal and lateral resistance strength may be substituted for the 6d nails.

Vapor Barrier — (Optional) — Nom 0.030 in. thick commercial asphalt saturated felt.

Finish Floor — Min 1 by 4 in. T & G lumber installed perpendicular to the joists, or min 15/32 in. thick wood structural panels, min grade "Underlayment" or "Single-Floor". Face grain of plywood or strength axis of panel to be perpendicular to joists with joints staggered.

System No. 2
Subflooring — Nom 19/32 in. thick wood structural panels installed perpendicular to the joists with end joints staggered. Plywood or panels secured to joists with construction adhesive and No. 6d ringed shank nails, spaced 12 in. OC along each joist. Staples having equal or greater withdrawal and lateral resistance strength may be substituted for the 6d nails.

Vapor Barrier — (Optional) — Nom 0.010 in. thick commercial asphalt saturated felt.

Finish Flooring — Floor Topping Mixture* — Min 3/4 in. thickness of floor topping mixture having a minimum compressive strength of 1800 psi. Refer to manufacturer's instructions accompanying the material for specific mix design.

UNITED STATES GYPSUM CO — Types LRK, HSLRK, CSD

LATICRETE SUPERCAP L L C — Types LRK, HSLRK

USG MEXICO S A DE C V — Types LRK, HSLRK, CSD

Floor Mat Materials* — (Optional) — Floor mat material loose laid over the subfloor. Refer to manufacturer's instructions regarding the minimum thickness of floor topping over each floor mat material.

UNITED STATES GYPSUM CO — Types SAM, LEVELROCK® Brand Sound Reduction Board, LEVELROCK® Brand Floor Underlayment SRM-25

Alternate Floor Mat Materials* — (Optional) — Floor mat material loosely laid over the subfloor. Refer to manufacturer's instructions regarding minimum thickness of floor topping over floor mat.

GRASSWORX L L C — SC Types

System No. 3
Subflooring — Nom 19/32 in. thick wood structural panels installed perpendicular to the joists with end joints staggered. Plywood or panels secured to joists with construction adhesive and No. 6d ringed shank nails, spaced 12 in. OC along each joist. Staples having equal or greater withdrawal and lateral resistance strength may be substituted for the 6d nails.

Vapor Barrier — (Optional) — Nom 0.030 in. thick commercial asphalt saturated felt.

Finish Flooring — Floor Topping Mixture* — Min 3/4 or 1 in. thickness of floor topping mixture for 19/32 or 15/32 in. thick wood structural panels respectively, having a min compressive strength of 1000 psi. Refer to manufacturer's instructions accompanying the material for specific mix design.

ARCOSA SPECIALTY MATERIALS — AccuCrete® Types NexGen, Green, Prime and PrePour, AccuRadiant®, AccuLevel® Types G40, G50 and SD30

Alternate Floor Mat Material* — (Optional) — Floor mat material nominal 2 - 9.5 mm thick loose laid over the subfloor. Floor topping shall be a min of 3/4 in. or 1 in. thick for 19/32 or 15/32 in. thick wood structural panels respecitively.

ARCOSA SPECIALTY MATERIALS — AccuQuiet® Types D13, D-18, D25, DX38, EM.125, EM.125S, EM.250, EM.250S, EM.375, EM.375S, EM.750, and EM.750S.

System No. 4
Structural Cement-Fiber Units* — Nom 3/4 in. thick, with long edges tongue and grooved. Long dimension of panels to be perpendicular to joists with end joints staggered a min of 2 ft and centered over the joists. Panels secured to joists with 1-5/8 in. long No. 8 self-drilling, self-countersinking steel screws spaced a max of 12 in. OC in the field with a screw located 1 in. and 2 in. from each edge, and 8 in. OC on the perimeter with a screw located 2 in. from each edge, located 1/2 in. from the side edges of the panel.

UNITED STATES GYPSUM CO — Types STRUCTO-CRETE, USGSP

System No. 5
Subflooring — Min 19/32 in. thick wood structural panels, min grade "C-D" or "Sheathing". Face grain of plywood or strength axis of panels to be perpendicular to the joists with joints staggered.

Vapor Barrier — (Optional) — Commercial asphalt saturated felt, 0.030 in. thick.

Vapor Barrier — (Optional) — Nom 0.010 in. thick commercial rosin-sized building paper.

Finish Flooring* — Min 3/4 in. thickness of any Floor Topping Mixture bearing the UL Classification Marking as to Fire Resistance. See Floor- and Roof-Topping Mixtures (CCOX) category for names of Classified Companies. Refer to the manufacturer's instructions accompanying the material and/or contact the manufacturer's technical support for specific mix design and minimum thickness recommended for use with eligible floor mat(s).

Floor Mat Materials* — (Optional) — Nom. 1/4 in. thick loose laid over the subfloor. Floor topping thickness shall be a minimum of 3/4 in.

KEENE BUILDING PRODUCTS CO INC — Type Quiet Qurl 55/025 and Quiet Qurl 55/025 N

Alternate Floor Mat Materials* — (Optional) — Floor mat material Nom. 3/8 in. thick loose laid over the subfloor. Floor topping thickness shall be a minimum of 1 in.

KEENE BUILDING PRODUCTS CO INC — Type Quiet Qurl 60/040 and Quiet Qurl 60/040 N

Alternate Floor Mat Materials* — (Optional) — Floor mat material Nom. 3/4 in. thick loose laid over the subfloor. Floor topping thickness shall be a minimum of 1-1/2 in.

KEENE BUILDING PRODUCTS CO INC — Type Quiet Qurl 65/075, Quiet Qurl 65/075 N

Alternate Floor Mat Materials* — (Optional) — Floor mat material Nom. 1/8 in. thick loose laid over the subfloor. Floor topping thickness shall be a minimum of 3/4 in.

KEENE BUILDING PRODUCTS CO INC — Type Quiet Qurl 52/013 and Quiet Qurl 52/013 N

Alternate Floor Mat Materials* — (Optional) — Floor mat material Nom. 1/4 in. entangled net core with a compressible fabric attached to the bottom loose laid over the subfloor. Floor topping thickness shall be a minimum of 1 in.

KEENE BUILDING PRODUCTS CO INC — Quiet Qurl 55/025 MT and Quiet Qurl 55/025 N MT

System No. 6
Subflooring — Nom 19/32 in. thick wood structural panels installed perpendicular to the joists with end joints staggered. Plywood or panels secured to joists with construction adhesive and No. 6d ringed shank nails, spaced 12 in. OC along each joist. Staples having equal or greater withdrawal and lateral resistance strength may be substituted for the 6d nails.

Finish Flooring - Floor Topping Mixture* — Min 3/4 in. thickness of floor topping mixture having a min compressive strength of 1100 psi. Mixture shall consist of 6.8 gal of water to 80 lbs of floor topping mixture to 1.9 cu ft of sand.

HACKER INDUSTRIES INC — Firm-Fill Gypsum Concrete, Firm-Fill 2010, Firm-Fill 3310, Firm-Fill 4010, Firm-Fill High Strength and Gyp-Span Radiant

Metal Lath — (Optional) — For use with 3/8 in. (10 mm) floor mat materials, 3/8 in. expanded steel diamond mesh, 3.4 lbs/sq yd placed over the floor mat material. Hacker Floor Primer to be applied prior to the placement of the metal lath. When metal lath is used, floor topping thickness a nom 1-1/4 in. over the floor mat.

Floor Mat Materials* — (Optional) Floor mat material nom 5/64 in. (2 mm) thick adhered to subfloor with Hacker Floor Primer. Primer to be applied to the surface of the mat prior to the placement of a min 1 in. of floor-topping mixture.

HACKER INDUSTRIES INC — Type Hacker Sound-Mat.

Alternate Floor Mat Materials — (Optional) — Floor mat material nom 1/4 in. (6 mm) thick adhered to subfloor with Hacker Floor Primer. Primer to be applied to the surface of the mat prior to the placement of a min 1-1/4 in. (32 mm) of floor-topping mixture.

HACKER INDUSTRIES INC — Type Hacker Sound-Mat II.

Alternate Floor Mat Materials — (Optional) — Floor mat material nom 1/8 in. (3 mm) thick loose laid over the subfloor. Floor topping thickness shall be a min of 3/4 in. (19 mm)

HACKER INDUSTRIES INC — FIRM-FILL SCM 125

Alternate Floor Mat Materials — (Optional) — Floor mat material nom 1/4 in. (6 mm) thick loose laid over the subfloor. Floor topping thickness shall be a min of 1 in. (25 mm)

HACKER INDUSTRIES INC — Type FIRM-FILL SCM 250, Quiet Qurl 55/025

Alternate Floor Mat Materials — (Optional) — Floor mat material nom 3/8 in. (10 mm) thick loose laid over the subfloor. Floor topping thickness shall be a min of 1-1/4 in. (32 mm)

HACKER INDUSTRIES INC — FIRM-FILL SCM 400, Quiet Qurl 60/040

Alternate Floor Mat Materials — (Optional) — Floor mat material nom 3/4 in. (19 mm) thick loose laid over the subfloor. Floor topping thickness shall be a min of 1-1/2 in. (38 mm)

HACKER INDUSTRIES INC — Type FIRM-FILL SCM 750, Quiet Qurl 65/075

System No. 7
Subflooring — Nom 19/32 in. thick wood structural panels installed perpendicular to the joists with end joints staggered. Plywood or panels secured to joists with construction adhesive and No. 6d ringed shank nails, spaced 12 in. OC along each joist. Staples having equal or greater withdrawal and lateral resistance strength may be substituted for the 6d nails.

Finish Floor — Mineral and Fiber Board* — Min 1/2 in. thick, supplied in sizes ranging from 3 ft by 4 ft to 8 ft by 12 ft. All joints to be staggered a min of 12 in. with adjacent sub-floor joints.

HOMASOTE CO — Type 440-32 Mineral and Fiber Board

System No. 8
Subflooring — Nom 19/32 in. thick wood structural panels installed perpendicular to the joists with end joints staggered. Plywood or panels secured to joists with construction adhesive and No. 6d ringed shank nails, spaced 12 in. OC along each joist. Staples having equal or greater withdrawal and lateral resistance strength may be substituted for the 6d nails.
Vapor Barrier — (Optional) — Nom 0.030 in thick commercial asphalt saturated felt.
Finish Flooring - Floor Topping Mixture* — Min 3/4 in. thickness of floor topping mixture having a min compressive strength of 1500 psi. Refer to manufacturer's instructions accompanying the material for specific mix design.
MAXXON CORP — Type Maxxon Standard and Maxxon High Strength

Floor Mat Materials* — (Optional) - Floor mat material loose laid over the subfloor. Refer to manufacturer's instructions regarding the minimum thickness of floor topping over each floor mat material.
MAXXON CORP — Type Encapsulated Sound Mat.

Floor Mat Reinforcement — (Optional) Refer to manufacturer's instructions regarding minimum thickness of floor topping for use with floor mat reinforcement.
Metal Lath — (Optional) 3/8 in. expanded galvanized steel diamond mesh, 3.4 lbs/sq yd loose laid over the floor mat material.
Fiber Glass Reinforcement — (Optional) 0.015 in. thick PVC coated non-woven fiberglass mesh, 0.368 lbs./sq. yd loose laid over the floor mat material.
System No. 9
Subflooring — Nom 19/32 in. thick wood structural panels installed perpendicular to the joists with end joints staggered. Plywood or panels secured to joists with construction adhesive and No. 6d ringed shank nails, spaced 12 in. OC along each joist. Staples having equal or greater withdrawal and lateral resistance strength may be substituted for the 6d nails.
Vapor Barrier — (Optional) Nom 0.030 in. thick commercial asphalt saturated felt.
Finish Flooring — Floor Topping Mixture* — Min 3/4 in. thickness of floor topping mixture having a minimum compressive strength of 1500 psi. Refer to manufacturer's instructions accompanying the material for specific mix design.
FORMULATED MATERIALS LLC — Types FR-25, FR-30, and SiteMix

Alternate Floor Mat Material* — (Optional) Floor mat material nominal 2 - 9.5 mm thick loose laid over the subfloor. Floor topping thickness shall be a minimum of 3/4 in.
FORMULATED MATERIALS LLC — Types M1, M2, M3, Elite, Duo, R1, and R2

System No. 10
Subflooring — Min 19/32 in. thick wood structural panels, min grade "C-D" or "Sheathing". Face grain of plywood or strength axis of panels to be perpendicular to the joists with joints staggered.

Vapor Barrier — (Optional) — Commercial asphalt saturated felt, 0.030 in. thick.

Vapor Barrier — (Optional) — Nom 0.010 in. thick commercial rosin-sized building paper.

Finish Flooring* — Min 3/4 in. thickness of any Floor Topping Mixture bearing the UL Classification Marking as to Fire Resistance. See Floor- and Roof-Topping Mixtures (CCOX) category for names of Classified Companies. Refer to the manufacturer's instructions accompanying the material and/or contact the manufacturer's technical support for specific mix design and minimum thickness recommended for use with eligible floor mat(s).

Floor Mat Materials* — (Optional) — Nom 3/32 in. thick loose laid over the subfloor. Floor topping thickness shall be a minimum of 3/4 in.

PLITEQ INC — Type GenieMat RST02

Floor Mat Materials* — (Optional) — Nom 3/16 in. thick loose laid over the subfloor. Floor topping thickness shall be a minimum of 3/4 in.

PLITEQ INC — Type GenieMat FF03NP

Floor Mat Materials* — (Optional) — Nom 1/4 in. thick loose laid over the subfloor. Floor topping thickness shall be a minimum of 3/4 in.

PLITEQ INC — Type GenieMat FF06

Floor Mat Materials* — (Optional) — Nom 3/8 in. thick loose laid over the subfloor. Floor topping thickness shall be a minimum of 1 in.

PLITEQ INC — Type GenieMat FF10

Floor Mat Materials* — (Optional) — Nom 3/4 in. thick loose laid over the subfloor. Floor topping thickness shall be a minimum of 1-1/2 in.

PLITEQ INC — Type GenieMat FF17

Floor Mat Materials* — (Optional) — Nom 1 in. thick loose laid over the subfloor. Floor topping thickness shall be a minimum of 1-1/2 in.

PLITEQ INC — Type GenieMat FF25

System No. 11
Subflooring — Nom 19/32 in. thick wood structural panels installed perpendicular to the joists with end joints staggered. Plywood or panels secured to joists with construction adhesive and No. 6d ringed shank nails, spaced 12 in. OC along each joist. Staples having equal or greater withdrawal and lateral resistance strength may be substituted for the 6d nails.
Vapor Barrier — (Optional) — Nom 0.030 in. thick commercial asphalt saturated felt.
Finish Flooring — Floor Topping Mixture* — Min 3/4 or 1 in. thickness of floor topping mixture for 19/32 or 15/32 in. thick wood structural panels respectively, having a min compressive strength of 1000 psi. Refer to manufacturer's instructions accompanying the material for specific mix design.
DEPENDABLE LLC — GSL M3.4, GSL K2.6, GSL-CSD, GSL RH and SKIMFLOW

Floor Mat Materials* — (Optional) — Nom. 1/4 in. thick loose laid over the subfloor. Floor topping thickness shall be a minimum of 3/4 in.
KEENE BUILDING PRODUCTS CO INC — Type Quiet Qurl 55/025 and Quiet Qurl 55/025 N

Alternate Floor Mat Materials* — (Optional) — Floor mat material Nom. 3/8 in. thick loose laid over the subfloor. Floor topping thickness shall be a minimum of 1 in.
KEENE BUILDING PRODUCTS CO INC — Type Quiet Qurl 60/040 and Quiet Qurl 60/040 N

Alternate Floor Mat Materials* — (Optional) — Floor mat material Nom. 3/4 in. thick loose laid over the subfloor. Floor topping thickness shall be a minimum of 1-1/2 in.
KEENE BUILDING PRODUCTS CO INC — Type Quiet Qurl 65/075, Quiet Qurl 65/075 N

Alternate Floor Mat Materials* — (Optional) — Floor mat material Nom. 1/8 in. thick loose laid over the subfloor. Floor topping thickness shall be a minimum of 3/4 in.
KEENE BUILDING PRODUCTS CO INC — Type Quiet Qurl 52/013 and Quiet Qurl 52/013 N

Alternate Floor Mat Materials* — (Optional) — Floor mat material Nom. 1/4 in. entangled net core with a compressible fabric attached to the bottom loose laid over the subfloor. Floor topping thickness shall be a minimum of 1 in.
KEENE BUILDING PRODUCTS CO INC — Quiet Qurl 55/025 MT and Quiet Qurl 55/025 N MT

System No. 12
Subflooring — Nom 19/32 in. thick wood structural panels installed perpendicular to the joists with end joints staggered. Plywood or panels secured to joists with construction adhesive and No. 6d ringed shank nails, spaced 12 in. OC along each joist. Staples having equal or greater withdrawal and lateral resistance strength may be substituted for the 6d nails.
Finish Flooring* — Floor Topping Materials — Min 3/4 in. to 1-1/2 in. thickness of any Floor Topping Mixture bearing the UL Classification Marking as to Fire Resistance with a minimum compressive strength of 1500 psi.
See Floor- and Roof-Topping Mixtures (CCOX) category for names of Classified Companies. Refer to the manufacturer's instructions accompanying the material and/or contact the manufacturer's technical support for specific mix design and minimum thickness recommended for use with eligible floor mat(s).

Floor Mat Materials* — (Optional) — Floor mat material nom 1/8 in. to 3/4 in. thick. Loose laid over the subfloor. When used, Acousti-flor CSM (crack suppression mat) is loose laid over the floor mat material. Floor topping material thickness is dependent on thickness of floor mat used.
WALFLOR INDUSTRIES INC — Type Acousti-flor, Acousti-flor CSM. Floor topping thickness depends on products used as follows:

Acousti-flor (1/8 in. thick) - Floor topping thickness shall be a minimum of 3/4 in.

Acousti-flor (1/4 in. thick) - Floor topping thickness shall be a minimum of 1 in.

Acousti-flor (3/8 in. thick) - Floor topping thickness shall be a minimum of 1 in.

Acousti-flor (3/4 in. thick) - Floor topping thickness shall be a minimum of 1-1/2 in.

Metal Lath — (Optional) — Expanded steel diamond mesh, 2.5 lb / sq yd loose laid over floor mat material.
Fiberglass Mesh Reinforcement — (Optional) — Coated non-woven glass fiber mesh grid loose laid over floor mat material.
System No. 13
Structural Cement-Fiber Units* — For use with UNITED STATES GYPSUM CO gypsum boards only. Nom 3/4 in. thick, with long edges tongue and grooved. Long dimension of panels to be perpendicular to wood trusses with end joints staggered a min of 2 ft and centered over the trusses. Panels secured to wood trusses with 1-5/8 in. long, No. 8, self- countersinking wood screw spaced a max of 12 in. OC in the field with a screw located 1 in. and 2 in. from each edge, and 8 in. OC on the perimeter with a screw located 2 in. from each edge, located 1/2 in. from the end edges of the panel.
UNITED STATES GYPSUM CO — Types STRUCTO-CRETE, USGSP

System No. 14
Subflooring — Nom 19/32 in. thick wood structural panels installed perpendicular to the joists with end joints staggered. Plywood or panels secured to joists with construction adhesive and No. 6d ringed shank nails, spaced 12 in. OC along each joist. Staples having equal or greater withdrawal and lateral resistance strength may be substituted for the 6d nails.
Finish Flooring - Floor Topping Mixture* — Min 1 in. thickness of floor topping mixture having a min compressive strength of 4500 psi. Refer to manufacturer's instructions accompanying the material for specific mix design.
SIKA DEUTSCHLAND GMBH — Type SCHONOX AP Rapid Plus

System No. 15
Subflooring — Building Units* — Nom. 1-1/2 in. thick T & G laminated composite plywood sub-floor panels to be perpendicular to the trusses with end joints staggered 4 ft. End joints centered over top chord of trusses. Subfloor panels secured to trusses with construction adhesive and #8 by 3 in. wood screws spaced 12 in. OC in the field and 6 in. OC at the end joints.
RSP INDUSTRIES INC — SAP board

System No. 16
Subflooring — Nom 19/32 in. thick wood structural panels installed perpendicular to the joists with end joints staggered. Plywood or panels secured to joists with construction adhesive and No. 6d ringed shank nails, spaced 12 in. OC along each joist. Staples having equal or greater withdrawal and lateral resistance strength may be substituted for the 6d nails.
Vapor Barrier — (Optional) - Commercial asphalt saturated felt, 0.030 in. thick.
Vapor Barrier — (Optional) - Nom 0.010 in. thick commercial rosin-sized building paper.
Finish Flooring - Floor Topping Mixture* — Min 3/4 in. thickness of any Floor Topping Mixture bearing the UL Classification Marking as to Fire Resistance.
See Floor- and Roof-Topping Mixtures (CCOX) category for names of Classified Companies. Refer to the manufacturer's instructions accompanying the material and/or contact the manufacturer's technical support for specific mix design and minimum thickness recommended for use with eligible floor mat(s).
Floor Mat Materials* — (Optional, Not Shown) - Floor mat material loose laid over the subfloor. Refer to manufacturer's instructions regarding the minimum thickness of floor topping over each floor mat material.
LOW & BONAR INC — EnkaSonic® by Colbond a member of the Low & Bonar group Types 125, 250, 250 Plus, 400, 400 Plus, 750 and 750 Plus.

Floor Mat Reinforcement — (Optional) - Refer to manufacturer's instructions regarding minimum thickness of floor topping for use with floor mat reinforcement.
Metal Lath — (Optional) — Expanded steel diamond mesh, 2.5 lb / sq yd loose laid over floor mat material.
Fiberglass Mesh Reinforcement — (Optional) — Coated non-woven glass fiber mesh grid loose laid over floor mat material.
System No. 17

Subflooring — Building Units* — Nom 3/4 in. thick, tongue and grooved boards. Long dimension of boards to be perpendicular to joists with end joints staggered a min of 4 ft. and centered over the joists. Boards secured to joists with min 1-1/4 in. long screws or 2 in. x 0.113 in. Ring Shank nails spaced a max of 12 in. OC in the field with screws/nails located 1 in. from long edge, and max 8 in. OC along the end joints with screws/nails located 1/2 in. from end joint.

ECTEK INTERNATIONAL INC — Type MegaBoard, 3/4 in. thick

Finish Floor (optional) — Building Units* — Min 1/2 in. thick, supplied in 4 by 8 ft panels, fastened to joists through subfloor with 2-3/8 in. long 8d ringed shank nails spaced a max of 12 in. OC. All joints to be staggered a min of 12 in. with adjacent sub-floor joints.

ECTEK INTERNATIONAL INC — Type MegaBoard, 1/2 in. thick

System No. 18

Subflooring — Nom 19/32 in. thick wood structural panels installed perpendicular to the joists with end joints staggered. Plywood or panels secured to joists with construction adhesive and No. 6d ringed shank nails, spaced 12 in. OC along each joist. Staples having equal or greater withdrawal and lateral resistance strength may be substituted for the 6d nails.

Vapor Barrier — (Optional) — Nom 0.030 in. thick commercial asphalt saturated felt.

Floor Mat Materials* — (Optional) — Floor mat material loose laid over the subfloor. Refer to manufacturer's instructions regarding the minimum thickness of floor topping over each floor mat material.

GRASSWORX L L C — SC Types

Finish Flooring* — Min 3/4 in. thickness of any Floor Topping Mixture bearing the UL Classification Marking as to Fire Resistance. See Floor- and Roof-Topping Mixtures (CCOX) category for names of Classified Companies. Refer to the manufacturer's instructions accompanying the material and/or contact the manufacturer's technical support for specific mix design and minimum thickness recommended for use with eligible floor mat(s).

Floor Mat Reinforcement — (Optional) - Refer to manufacturer's instructions regarding minimum thickness of floor topping for use with floor mat reinforcement.

Metal Lath — (Optional) — Expanded steel diamond mesh, 2.5 lb / sq yd loose laid over floor mat material.

Fiberglass Mesh Reinforcement — (Optional) — Coated non-woven glass fiber mesh grid loose laid over floor mat material.

2. Structural Wood Members* — Min 9-1/2 in. deep "I" shaped wood joists spaced at a max of 19.2 in. OC. Joists shall conform to ICC-ES ESR-1153 Report. Joist top and bottom chords minimum 1-3/8 in. deep by 2.3 in. wide and constructed of either Microllam laminated veneer lumber (LVL) or TimberStrand laminated strand lumber (LSL). Webs constructed of minimum 3/8 in. thick Performance Plus OSB, PS2, Exposure 1. Installation shall be in accordance with manufacturers published literature. Spacing may be increased to 24 in. OC when Batts and Blankets* (Item 3B) is used.
3. Insulation — Batts and Blankets* — (Optional) — Glass fiber insulation, secured to the subflooring with staples, or to the wood joists with 0.090 in. diam galv steel wires, or draped over the resilient channel/gypsum panel (or Steel Framing Members/gypsum panel) ceiling membrane. Any thickness of glass fiber insulation bearing the UL Classification Marking as to Surface Burning Characteristics and/or Fire Resistance.
3A. Insulation — Loose Fill Material* — (Optional) — As an alternate to Item 3 — Any thickness of loose fill material bearing the UL Classification Marking for Surface Burning Characteristics, applied within the concealed space, over the resilient or furring channel/gypsum panel or Steel Framing Members/gypsum panel ceiling membrane.
3B. Insulation - Batts and Blankets* — (Optional) — Min. 1 in. thick glass fiber insulation bearing the UL Classification Marking as to Surface Burning Characteristics and/or Fire Resistance draped over the resilient channel/gypsum panel (or Steel Framing Members/gypsum panel) ceiling membrane.
4. Resilient Channels — Formed from 25 MSG galv steel installed perpendicular to the joists. When no insulation is installed in the concealed space the resilient channels are spaced 24 in. OC. When insulation (Item 3) is installed to the underside of the subfloor the resilient channels are spaced . 16 in. OC When insulation (Items 3, 3A or 3B) is applied over the resilient channel/gypsum panel ceiling membrane, the resilient channels are spaced 12 in. OC.. Two courses of resilient channel positioned 6 in. OC at gypsum panel butt-joints (3 in. from each end of wallboard). Channels oriented opposite at gypsum panel butt-joints. Channel splices overlapped 4 in. beneath wood trusses. Channels secured to each truss with 1-1/4 in. long Type S screws.
4A. Alternate Steel Framing Members — (Not Shown) — As an alternate to Item 4, main runners, cross tees, cross channels and wall angle as listed below.
a. Main Runners — Nom 10 or 12 ft long, 15/16 in. or 1-1/2 in. wide face, spaced 4 ft. OC. Main runners suspended by min 12 SWG galv steel hanger wires spaced 48 in. OC. Hanger wires to be located adjacent to main runner/cross tee intersections. Hanger wires wrapped and twist-tied on 16d nails driven in to side of joists at least 5 in. above the bottom face.
b. Cross Tees — Nom 4 ft long, 1-1/2 in. wide face, installed perpendicular to the main runners, spaced 16 in. OC. Additional cross tees or cross channels used at 8 in. from each side of butted gypsum panel end joints. The cross tees or cross channels may be riveted or screw attached to the wall angle or channel to facilitate the ceiling installation.
c. Cross Channels — Nom 4 or 12 ft long, installed perpendicular to main runners, spaced 16 in. OC. When Batts and Blankets (Item 5) are used, cross channels spaced 16 in. OC.
d. Wall Angle or Channel — Painted or galv steel angle with 1 in. legs or channel with 1 in. legs, 1-9/16 in. deep attached to walls at perimeter of ceiling with fasteners 16 in. OC. To support steel framing member ends and for screw-attachment of the gypsum panels.
CGC INC — Type DGL or RX

USG INTERIORS LLC — Type DGL or RX

4B. Alternate Steel Framing Members* — (Not Shown) — As an alternate to Items 4 and 4A, furring channels and Steel Framing Members as described below.
a. Furring Channels — Formed of No. 25 MSG galv steel. 2-9/16 in. or 2-23/32 in. wide by 7/8 in. deep, spaced 24 in. OC, perpendicular to joists. When insulation, Items 3, 3A, or 3B is used, the furring channel spacing shall be reduced as described in Item 4. Channels secured to joists as described in Item b. Ends of adjoining channels overlapped 6 in. and tied together with double strand of No. 18 SWG galv steel wire near each end of overlap.
b. Steel Framing Members* — Used to attach furring channels (Item a) to the wood joists (Item 2). When wood joists are spaced 19.2 in. OC, clips spaced a max of 38.4 in. OC. When wood joists are spaced 16 or 24 in. OC, clips spaced a max of 48 in. OC. RSIC-1 and RSIC-1 (2.75) clips secured to alternating joists with No. 8 x 2-1/2 in. coarse drywall screw through the center grommet. RSIC-V and RSIC-V (2.75) clips secured to alternating joists with No. 8 x 1-1/2 in. coarse drywall screw through the center hole. Furring channels are friction fitted into clips. RSIC-1 and RSIC-V clips for use with 2-9/16 in. wide furring channels. RSIC-1 (2.75) and RSIC-V (2.75) clips for use with 2-23/32 in. wide furring channels. Adjoining channels are overlapped as described in Item a. As an alternate, ends of adjoining channels may be overlapped 6 in. and secured together with two self-tapping No. 6 framing screws, min. 7/16 in. long at the midpoint of the overlap, with one screw on each flange of the channel. Additional clips required to hold furring channel that supports the wallboard butt joints, as described in Item 5.
PAC INTERNATIONAL L L C — Types RSIC-1, RSIC-V, RSIC-1 (2.75), RSIC-V (2.75)

4C. Alternate Steel Framing Members* — (Not Shown) — As an alternate to Items 4, 4A, 4B furring channels and Steel Framing Members as described below.
a. Furring Channels — Formed of No. 25 MSG galv steel. 2-3/8 in. wide by 7/8 in. deep, spaced 24 in. OC, perpendicular to joists. When insulation, Items 3, 3A, or 3B is used, the furring channel spacing shall be reduced as described in Item 4. Channels secured to joists as described in Item b. Ends of adjoining channels overlapped 6 in. and tied together with double strand of No. 18 SWG galv steel wire near each end of overlap.
b. Steel Framing Members* — Used to attach furring channels (Item a) to the wood joists (Item 2). When wood joists are spaced 19.2 in. OC, clips spaced a max of 38.4 in. OC. When wood joists are spaced 16 or 24 in. OC, clips spaced a max of 48 in. OC. Genie Clips secured to alternating joists with No. 8 x 2-1/2 in. coarse drywall screw through the center hole. Furring channels are friction fitted into clips. Additional clips required to hold furring channel that supports the wallboard butt joints, as described in Item 5.
PLITEQ INC — Type Genie Clip

4D. Alternate Steel Framing Members* — (Not Shown) — As an alternate to items 4-4B, furring channels and Steel Framing Members as described below.
a. Furring Channels — Formed of No. 25 MSG galv steel, 2-5/8 in. wide by 7/8 in deep, spaced 24 in OC, perpendicular to joists. When insulation, Items 3, 3A, or 3B is used, the furring channel spacing shall be reduced as described in Item 4. Channels secured to joists as described in Item b.
b. Steel Framing Members* — Used to attach furring channels (Item a) to the wood joists (Item 2). When wood joists are spaced 19.2 in. OC, clips spaced a max of 38.4 in. OC. When wood joists are spaced 16 or 24 in. OC, clips spaced at 48" OC and secured to the bottom of the joists with one 2 in. Coarse Drywall Screw with 1 in. diam washer through the center hole. Furring channels are then friction fitted into clips. Ends of channels are overlapped 6" and tied together with double strand of No. 18 AWG galvanized steel wire.Additional clips are required to hold the Gypsum Butt joints as described in item 5.
STUDCO BUILDING SYSTEMS — RESILMOUNT Sound Isolation Clips - Type A237 or A237R

4E. Alternate Steel Framing Members* — As an alternate to items 4-4D, furring channels and Steel Framing Members as described below.
a. Furring Channels — Formed of No. 25 MSG galv steel, 2-1/2 in. wide by 7/8 in deep, spaced 24 in OC, perpendicular to joists. When insulation, Items 3, 3A, or 3B is used, the furring channel spacing shall be reduced as described in Item 4. Channels secured to joists as described in Item b.
b. Steel Framing Members* — Used to attach furring channels (Item a) to the wood joists (Item 2). When wood joists are spaced 19.2 in. OC, clips spaced a max of 38.4 in. OC. When wood joists are spaced 16 or 24 in. OC, clips spaced at 48" OC and secured to the bottom of the joists with one 2-1/2 in. Coarse Drywall Screw with 1 in. diam washer through the center hole. Furring channels are then friction fitted into clips. Ends of channels are overlapped 6" and tied together with double strand of No. 18 AWG galvanized steel wire. Additional clips are required to hold the Gypsum Butt joints as described in item 5.
REGUPOL AMERICA — Type SonusClip

4F. Steel Framing Members* — (Optional, Not Shown) — As an alternate to Item 4.
a. Furring Channels — Formed of No. 25 MSG galv steel, nominal 2-1/2 in. wide by 7/8 in. deep, spaced as indicated in Item 4, perpendicular to the joists. Channels secured to Cold Rolled Channels at every intersection with a 3/4 in. TEK screw through each furring channel leg. Ends of adjoining channels overlapped 12 in. and fastened together with two double strand No. 18 SWG galv steel wire ties, one at each end of overlap, or with two 3/4 in. TEK screws in each leg of the overlap section. Two furring channels positioned 3 in. OC, 1-1/2 in. on each side of gypsum board (Item 5) end joints, each extending a min of 6 in. beyond both side edges of the board.
b. Cold Rolled Channels — 1-1/2 in. by 1/2 in., formed from No. 16 ga. galv steel, positioned vertically and parallel to joists, friction-fitted into the channel caddy on the Steel Framing Members (Item 4Fc) and secured with two 3/4 in. TEK screws. Adjoining lengths of cold rolled channels lapped min. 12 in. and secured along bottom legs with four 3/4 in. TEK screws and wire-tied together with two double strand 18 SWG galv steel wire ties, one at each end of overlap.
c. Steel Framing Members* — Spaced 48 in. OC. max along joist, and secured to the joist on alternating joists with two, #10 x 1-1/2 in. screws through mounting holes on the hanger bracket.
PAC INTERNATIONAL L L C — Type RSIC-SI-CRC EZ Clip

4G. Steel Framing Members* — (Optional, Not Shown) — As an alternate to Item 4.
a. Furring Channels — Formed of No. 25 MSG galv steel, nominal 2-1/2 in. wide by 7/8 in. deep, spaced as indicated in Item 4, perpendicular to joists and friction fit into Steel Framing Members (Item 4Gb). Ends of adjoining channels overlapped 6 in. and tied together with double strand of No. 18 SWG galv steel wire near each end of overlap or with two TEK screws along each leg of the 6 in. overlap. Two furring channels positioned 6 in. OC, 3 in. on each side of gypsum board (Item 5) end joints. Butt joint channels held in place by strong back channels placed upside down, on top of, and running perpendicular to primary furring channels, extending 6 in. longer than length of gypsum side joint. Strong back channels spaced maximum 48 in. OC. Strong back channels secured to every intersection of primary furring channels with four 7/16 in. pan head screws, two along each of the legs at intersections. Butt joint channels run perpendicular to strong back channels and shall be minimum 6 in. longer than length of joint, secured to strong back channels with 7/16 in. pan head screws, two along each of the legs at intersection with strong back channels.
b. Steel Framing Members* — Used to attach furring channels (Item 4Ga) to joists. Clips spaced 48 in. OC and secured along joist webs at each furring channel intersection with min. 3/4 in. long self-drilling #10 x 1-1/2 in. screws through each of the provided hole locations. Furring channels are friction fitted into clips.
PAC INTERNATIONAL L L C — Type RSIC-S1-1 Ultra

4H. Steel Framing Members* — (Optional, Not Shown) — As an alternate to Item 4 - Nom 12 ft (3.66 m) long main runners installed perpendicular to wood trusses and spaced 48 in. (1.22 m) OC. Main runners suspended from trusses with No. 12 SWG galv steel hanger wires reliably secured to the bottom chords of the trusses with screw-attached steel clips and spaced max 48 in. (1.22 m) OC. Nom 4 ft (1.22 m) long cross tees with 1-1/2 in. (38 mm) wide face installed perpendicular to main runners and spaced max 16 in. (406 mm) OC. Cross tees located 4 in. (102 mm) from each side of butted gypsum board end joints. Ends of steel framing members at walls to be supported by galv or painted steel angles or channels with min 1 in. (25 mm) horizontal leg.
ARMSTRONG WORLD INDUSTRIES INC — Type DFR-8000

4I. Alternate Steel Framing Members* — (Optional, Not Shown) — As an alternate to Item 4 - For use in corridors or rooms having a maximum width dimension of 14 ft (4.25 m). Steel framing members consist of grid runners, locking angle wall molding and hanger bars. Locking angle wall molding secured to walls with steel nails or screws spaced max 16 in. (610 mm) OC. Slots of locking angle wall molding parallel with hanger bars to be aligned with tabbed cutouts in bottom edge of hanger bars. Hanger bars spaced max 50 in. (1.22 m) OC and suspended with No. 12 AWG steel hanger wires spaced max 48 in. (1.22 m) OC. Adjoining lengths of hanger bar to overlap 12 in. (305 mm) and to be secured together and suspended by a shared hanger wire. A min clearance of 1/4 in. (6 mm) shall be maintained between the ends of the hanger bars and the walls. Grid runners cut-to-length and installed perpendicular to hanger bars and spaced max 16 in. (406 mm) OC with additional grid runners installed 8 in. (203 mm) OC at gypsum board end joints. Grid runners parallel with walls to be spaced max 16 in. (406 mm) from wall. Ends of grid runners to rest on and engage slots of locking angle wall molding with a clearance of 3/8 in. (10 mm) to 1/2 in. (13 mm) maintained between each end of the grid runner and the wall. Bulb of grid runner to be captured by tabbed cutouts in bottom edge of hanger bars.
ARMSTRONG WORLD INDUSTRIES INC — Type DFR-8000-SS

4J. Alternate Steel Framing Members* — (Not Shown) — As an alternate to Item 4H - Main runners nom 12 ft (3.66 m) long, spaced 72 in. (1.83 m) OC. Cross tees, nom 6 ft (1.83 m) long, installed perpendicular to main runners and spaced 16 in. (406 mm) OC. Additional 6 ft long cross tees required at each gypsum board end joint with butted gypsum board end joints centered between cross tees spaced 8 in. (203 mm) OC. The main runners and cross tees may be riveted or screw-attached to the wall angle or channel to facilitate the ceiling installation.
ARMSTRONG WORLD INDUSTRIES INC — Type DFR-8000

4K. Steel Framing Members* — Optional - Not Shown) — Used to attach resilient channels (Item 6) to joists (Item 2). Clips spaced 48 in. OC and secured to joists with one No. 8 x 2-1/2 in. coarse drywall screw through center grommet hole. Channels secured to clips with one #10 x 1/2 in. pan-head self-drilling screw. Ends of adjoining channels overlapped 6 in. and secured together with two #8 15 x 1/2 in. Philips Modified screws spaced 2-1/2 in. from the center of the overlap. Gypsum board butt joints require additional resilient channels spaced 1-1/2 in. from the butt joint on either side. One edge of the extra channels will extend to an adjacent joist where it is secured with a clip.
KEENE BUILDING PRODUCTS CO INC — Type RC+ Assurance Clip

4L. Steel Framing Members* — (Optional, Not Shown) — Used as an alternate method to attach resilient channels to structural members. A resilient sound isolation accessory shall be used at each attachment point of the resilient channels and spaced max 19.2 in. O.C. Channel ends butted and centered under the structural members and attached with one accessory at each end. Additional accessories used to hold resilient channels that support the gypsum board end joints. The accessory envelops the mounting edge of the resilient channel. The accessory and resilient channel are fastened to the structural members with the screws supplied with the accessory and per the accessory manufacturer's installation instructions. Gypsum Board butt joints staggered minimum 24 in. OC and Gypsum Board screws spaced 8 in. OC when used.
PAC INTERNATIONAL L L C — Type RC-1 Boost

4M. Steel Framing Members* — (Optional, Not Shown, As an alternate to Item 4) — Furring channels and Steel Framing Members as described below:

a. Furring Channels — Formed of No. 25 MSG galv steel. 2-23/32 in. wide by 7/8 in. deep, spaced 24 in. OC perpendicular to joists. Channels secured to joists as described in Item 4Mb. Ends of adjoining channels are overlapped 6 in. and tied together with double strand of No. 18 SWG galv steel wire near each end of overlap. As an alternate, ends of adjoining channels may be overlapped 6 in. and secured together with two self-tapping #6 framing screws, min. 7/16 in. long at the midpoint of the overlap, with one screw on each flange of the channel. Additional clips required to hold furring channel that supports the wallboard butt joints, as described in Item 5.

b. Steel Framing Members* — Used to attach furring channels (Item 4Ma) to joists (Item 2). Clips spaced 48 in. OC with No. 8 x 2-1/2 in. course drywall screw through the center grommet. Furring channels are friction fitted into clips.

CLARKDIETRICH BUILDING SYSTEMS — Type ClarkDietrich Sound Clips

5. Gypsum Board* — Two layers of 1/2 in. or 5/8 in. thick by 4 ft wide gypsum panels, installed perpendicular to resilient channels (Item 4). The base layer of panels screw-attached to the resilient channels with 1 in. long Type S screws spaced 8 in. OC at the butt joints and 16 in. OC in the field of the panel. The face layer screw-attached to the resilient channels with 1-5/8 in. Type S screws spaced 8 in. OC and 1-1/2 in. Type G screws spaced 8 in. OC at the butt joints located mid-span between resilient channels.
When Steel Framing Members (Item 4A) are used, gypsum board installed with long dimension perpendicular to cross tees. The base layer of panels fastened to cross tees with 1 in. long Type S screws spaced 8 in. OC at the butt joints and 16 in. OC in the field of the panel. The face layer screw-attached to the cross tees with 1-5/8 in. Type S screws spaced 8 in. OC and 1-1/2 in. Type G screws spaced 8 in. OC at the butt joints located mid-span between cross tees. Screws along sides and ends of panels spaced 3/8 to 1/2 in. from panel edge. End joints of panels shall be staggered with spacing between joints on adjacent panels not less than 4 ft OC.
When Steel Framing Members (Items 4B and 4M) are used, panels installed with long dimension parallel with joists. Base layer attached to the furring channels using 1 in. long Type S bugle-head steel screws spaced 8 in. OC along butted end joints and 12 in. OC in the field of the panels. Butted end joints shall be staggered min. 2 ft. within the assembly, and occur midway between the continuous furring channels. Each end of the gypsum panels shall be supported by a single length of furring channel equal to the width of the panel plus 6 in. on each end. The furring channels shall be spaced approximately 3-1/2 in. OC, and be attached to underside of the joist with one RSIC-1 clip at each end of the channel. Butted base layer end joints to be offset a minimum of 24 in. in adjacent courses. Outer layer attached to the furring channels using 1-5/8 in. long Type S bugle-head steel screws spaced 8 in. OC at butted joints and 12 in. OC in the field. Butted end joints to be offset min 12 in. from base layer end joints. Butted side joints of outer layer to be offset min 12 in. from butted side joints of base layer.
When Steel Framing Members (Item 4C) are used, panels installed with long dimension parallel with joists. Base layer attached to the furring channels using 1 in. long Type S bugle-head steel screws spaced 8 in. OC along butted end joints and 12 in. OC in the field of the panels. Butted end joints shall be staggered min. 2 ft. within the assembly, and occur midway between the continuous furring channels. Each end of the gypsum panels shall be supported by a single length of furring channel equal to the width of the panel plus 6 in. on each end. The furring channels shall be spaced approximately 3-1/2 in. OC, and be attached to underside of the joist with one Genie clip at each end of the channel. Butted base layer end joints to be offset a minimum of 24 in. in adjacent courses. Outer layer attached to the furring channels using 1-5/8 in. long Type S bugle-head steel screws spaced 8 in. OC at butted joints and 12 in. OC in the field. Butted end joints to be offset min 12 in. from base layer end joints. Butted side joints of outer layer to be offset min 12 in. from butted side joints of base layer.
When Steel Framing Members (Item 4D) are used, base layer gypsum board is installed with long dimensions perpendicular to furring channels. Gypsum board secured to furring channels with nom 1 in. long Type S bugle-head steel screws spaced 8 in. OC in the field of the board. Gypsum board butted end joints shall be staggered minimum 48 in. and centered over main furring channels. At the gypsum board butt joints, each end of each gypsum board shall be supported by a single length of furring channel equal to the width of the gypsum board plus 3 in. on each end. The two support furring channels shall be spaced approximately 3 in. in from joint. Screw spacing along the gypsum board butt joint and along both additional channels shall be 8 in. OC. Butt joint furring channels shall be attached with one RESILMOUNT Sound Isolation Clip at each end of the channel. Face layer secured as described above.
When Steel Framing Members (Item 4E) are used, base layer gypsum board is installed with long dimensions perpendicular to furring channels. Gypsum board secured to furring channels with nom 1 in. long Type S bugle-head steel screws spaced 8 in. OC in the field of the board. Gypsum board butted end joints shall be staggered minimum 48 in. and centered over main furring channels. At the gypsum board butt joints, an additional single length of furring channel shall be installed and be spaced approximately 3 in. from the butt joint (6 in. from the continuous furring channels) to support the floating end of the gypsum board. Each of these shorter sections of furring channel shall extend one joist beyond the width of the gypsum panel and be attached to the adjacent joists with one SonusClip at every joist involved with the butt joint.

When Steel Framing Members (Item 4F) are used, Two layers of 1/2 in. or 5/8 in. thick, 4 ft wide gypsum board, installed as described in Item 5. Adjacent butt joints staggered minimum 48 in. OC.

When Steel Framing Members (Item 4G) are used, Two layers of 1/2 in. or 5/8 in. thick, 4 ft wide gypsum board, installed as described in Item 5. Butt joints staggered minimum 24 in. OC.

When Steel Framing Members* (Item 4H) are used, base layer gypsum board installed with long dimension perpendicular to cross tees with side joints centered along main runners and end joints centered along cross tees. Gypsum board secured to cross tees with 1 in. long Type S bugle head screws spaced 12 in. OC in the field and 8 in. OC along end joints. Gypsum board also secured to main runners with 1 in. long Type S bugle head screws midway between cross tees. Screws along sides and ends of boards spaced 3/4 to 1/2 in. from board edge. End joints of the sheets shall be staggered with spacing between joints on adjacent boards not less than 4 ft OC. The face layer screw-attached to the cross tees with 1-5/8 in. Type S screws spaced 8 in. OC and 1-1/2 in. Type G screws spaced 8 in. OC at the butt joints. Screws along sides and ends of panels spaced 3/8 to 1/2 in. from panel edge. End joints of panels shall be staggered with spacing between joints on adjacent panels not less than 4 ft OC.

When alternate Steel Framing Members* (Item 4I) are used, base layer gypsum board sheets installed with long dimension (side joints) perpendicular to the grid runners with the end joints staggered min 4 ft and centered between grid runners which are spaced 8 in. OC. Prior to installation of the gypsum board sheets, backer strips consisting of nom 7-3/4 in. wide by 48 in. long pieces of gypsum board are to be laid atop the grid runner flanges and centered over each butted end joint location. The backer strips are to be secured to the flanges of the grid runners at opposite corners of the backer strip to prevent the backer strips from being uplifted during screw-attachment of the gypsum board sheets. Gypsum board fastened to grid runners with drywall screws spaced 1 in. and 4 in. from the side joints and max 8 in. OC in the field of the board. The butted end joints are to be secured to the backer strip with No. 10 by 1-1/2 in. long Type G laminating screws located 1 in. from each side of the butted end joint and spaced 1 in. and 4 in. from the side joints and max 8 in. OC in the field of the board. The face layer screw-attached to the grid runners with 1-5/8 in. Type S screws spaced 8 in. OC and 1-1/2 in. Type G screws spaced 8 in. OC at butt joints. Screws along sides and ends of panels spaced 3/8 to 1/2 in. from panel edge. End joints of panels shall be staggered with spacing between joints on adjacent panels not less than 4 ft OC.

When alternate Steel Framing Members* (Item 4J) are used, base layer gypsum board sheets installed with long dimension (side joints) perpendicular to the 6 ft long cross tees with the end joints staggered min 4 ft and centered between cross tees which are spaced 8 in. OC. Gypsum board side joints may occur beneath or between main runners. Prior to installation of the gypsum board sheets, backer strips consisting of nom 7-3/4 in. wide pieces of gypsum board are to be laid atop the cross tee flanges and centered over each butted end joint location. The backer strips are to be secured to the flanges of the cross tees at opposite corners of the backer strip to prevent the backer strips from being uplifted during screw-attachment of the gypsum board sheets. Gypsum board fastened to cross tees with drywall screws spaced 1 in. and 4 in. from the side joints and max 8 in. OC in the field of the board. The butted end joints are to be secured to the backer strip with No. 10 by 1-1/2 in. long Type G laminating screws located 1 in. from each side of the butted end joint and spaced 1 in. and 4 in. from the side joints and max 8 in. OC in the field of the board. The face layer screw-attached to the cross tees with 1-5/8 in. Type S screws spaced 8 in. OC and 1-1/2 in. Type G screws spaced 8 in. OC at the butt joints. Screws along sides and ends of panels spaced 3/8 to 1/2 in. from panel edge. End joints of panels shall be staggered with spacing between joints on adjacent panels not less than 4 ft OC.

CGC INC — 1/2 in. Type C, IP-X2, IPC-AR; 5/8 in. Type C, IP-X2, ULIX. When there is no insulation in the cavity, or when insulation (Item 3) is secured to the underside of the subfloor 5/8 in. Type SCX or IP-X1 may be used

UNITED STATES GYPSUM CO — 1/2 in. Type C, IP-X2, IPC-AR; 5/8 in. Type C, IP-X2, ULIX. When there is no insulation in the cavity, or when insulation (Item 3) is secured to the underside of the subfloor 5/8 in. Type SCX, or IP-X1 may be used

USG BORAL DRYWALL SFZ LLC — 1/2 in. Type C; 5/8 in. Type C. When there is no insulation in the cavity, or when insulation (Item 3) is secured to the underside of the subfloor 5/8 in. Type SCX may be used

6. Finishing System — Fiber tape embedded in compound over joints and exposed nail heads, covered with compound with edges of compound feathered out. As an alternate, nom 3/32 in. thick gypsum veneer plaster may be applied to the entire surface of classified veneer baseboard. Joints reinforced.
* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.

* USED WITH PERMISSION OF UL LABORATORIES

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McCarty Holsaple McCarty, Inc.
550 W. Main St., Suite 300
Knoxville, TN 37902
t 865.544.2000
www.mhminc.com

Consultants:

CIVIL ENGINEER:
HUDDLESTON-STEELE ENGINEERING INC.
2112 N.W. BROAD ST.
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615.893.4084

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615.546.6050

STRUCTURAL ENGINEER:
HAINES STRUCTURAL GROUP
800 S. GAY ST., STE 1750
KNOXVILLE TN, 37929
865.329.9920

MECHANICAL & PLUMBING ENGINEER:
FACILITY SYSTEMS CONSULTANTS
713 S. CENTRAL ST., STE 101
KNOXVILLE TN, 37902
865.246.0164

ELECTRICAL ENGINEER:
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Project Information:

21026

MHA Parkside Housing

520 EAST CASTLE STREET,
MURFREESBORO, TN 37130

Seal:

Consultant:

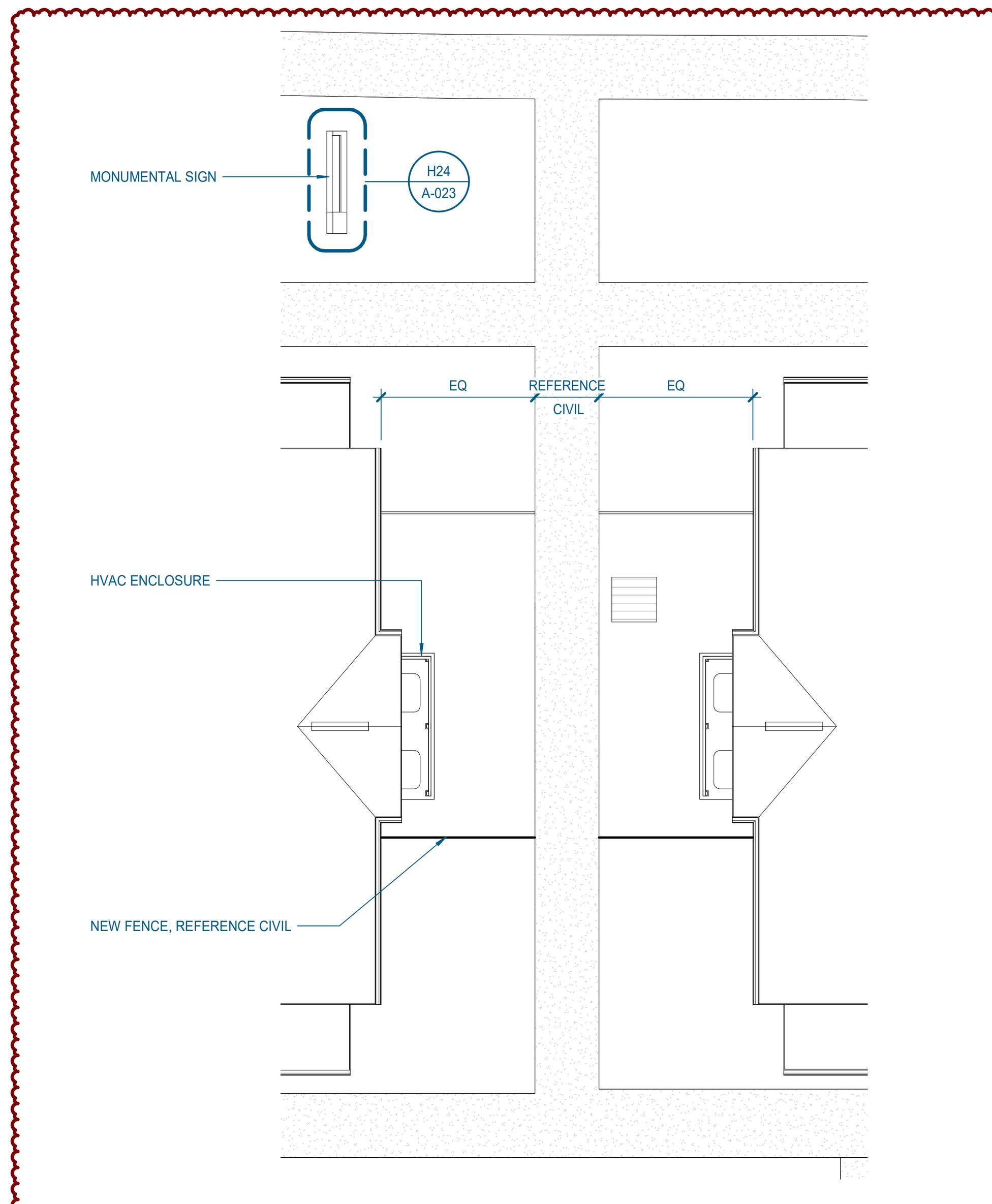
#	ISSUE	DATE

Issue Date:	04/04/2022
PIC	M. BUTLER
PM	M. BUTLER
PA	G. TAYLOR
Drawn By:	Author
Checked By:	J. BRADLEY

Sheet Description:

A-014

UL PARTITION DETAILS



N09 SITE PLAN - ARCHITECTURAL SITE PLAN - ENLARGED
1" = 10'-0"

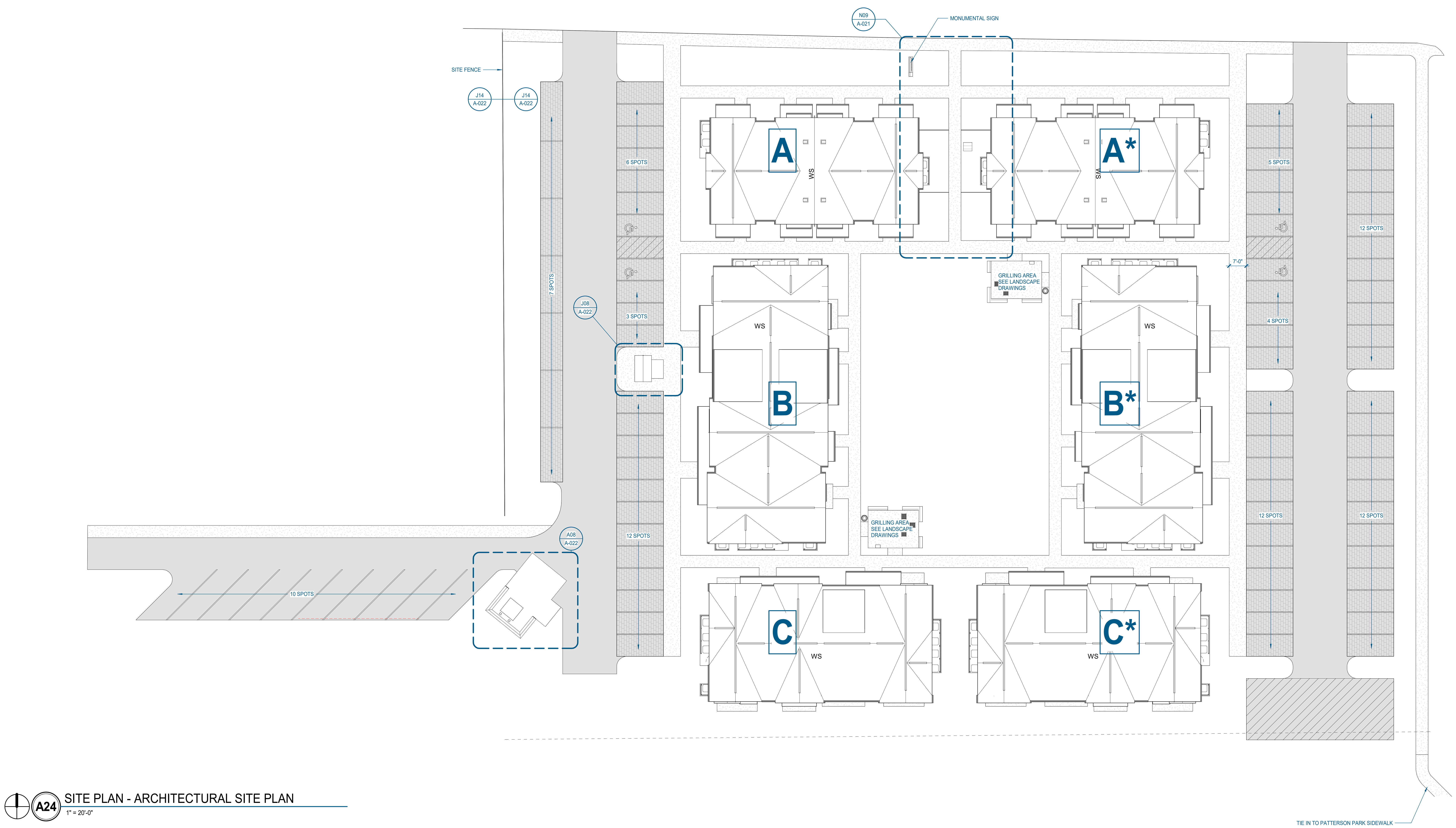
SITE PLAN NOTES

GENERAL SITE

1. TRASH SERVICE TO BE PROVIDED BY PRIVATE HAULER.
2. ALL SIGNAGE INCLUDING FLAGS AND FLAGPOLES IS SUBJECT TO REVIEW BY THE BUILDING & CODES DEPARTMENT FOR APPROVAL. ALL SIGNAGE MUST CONFORM TO THEIR REQUIREMENTS AND REQUIRE SEPARATE SIGN PERMITS. CONTACT TERESA STEVENS AT 615.893.3750
3. SEE CIVIL DRAWINGS FOR UTILITY INFORMATION
4. SEE LANDSCAPE DRAWINGS FOR IRRIGATION AND PLANTING REQUIREMENTS.
5. CONTRACTOR TO ENSURE POSITIVE DRAINAGE AWAY FROM BUILDINGS. (1)

BUILDINGS

1. ALL BUILDINGS WILL BE SPRINKLERED.



A24 SITE PLAN - ARCHITECTURAL SITE PLAN
1" = 20'-0"

11/15/2023 2:51:08 PM

BUILDING/UNIT MATRIX

	FLOOR	# BR	UFAS	ADAPTABLE	S+H	INT. SCHEME
BLDG A:	2					
UNIT A1:	1&2	3	X			
UNIT A2:	1&2	3				
UNIT A3:	1&2	3				
UNIT A4:	1&2	3				
BLDG B:	3					
UNIT B1:	1&2	4				
UNIT B2:	1	2		X		
UNIT B3:	1	2		X		
UNIT B4:	1	2	X			
UNIT B5:	2	2				
UNIT B6:	2	2				
UNIT B7:	2	2				
UNIT B8:	3	2				
UNIT B9:	3	2				
UNIT B10:	3	2				
UNIT B11:	3	2				
BLDG C:	3					
UNIT C1:	1	1	X			
UNIT C2:	1	1		X		
UNIT C3:	1	1		X		
UNIT C4:	1	1		X		
UNIT C5:	2&3	3				
UNIT C6:	2&3	3				
UNIT C7:	2&3	3				
UNIT C8:	2&3	3				
SYBMOLS LEGEND						
* = MIRRORED FLOOR PLAN						

BUILDING/UNIT MATRIX

	FLOOR	# BR	UFAS	ADAPTABLE	S+H	INT. SCHEME
BLDG A*:	2					
UNIT A1:	1&2	3				
UNIT A2:	1&2	3				
UNIT A3:	1&2	3				
UNIT A4:	1&2	3				
BLDG B*:	3					
UNIT B1:	1&2	4				
UNIT B2:	1	2		X		
UNIT B3:	1	2		X		
UNIT B4:	1	2		X		
UNIT B5:	2	2				
UNIT B6:	2	2				
UNIT B7:	2	2				
UNIT B8:	3	2				
UNIT B9:	3	2				
UNIT B10:	3	2				
UNIT B11:	3	2				
BLDG C*:	3					
UNIT C1:	1	1	X			
UNIT C2:	1	1		X		
UNIT C3:	1	1		X		
UNIT C4:	1	1		X		
UNIT C5:	2&3	3				
UNIT C6:	2&3	3				
UNIT C7:	2&3	3				
UNIT C8:	2&3	3				
SYBMOLS LEGEND						
* = MIRRORED FLOOR PLAN						

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800 S. GAY ST., STE 1750
KNOXVILLE TN, 37929
865.329.9920

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FACILITY SYSTEMS CONSULTANTS
713 S. CENTRAL ST., STE 101
KNOXVILLE TN, 37902
865.246.0164

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Project Information:

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MHA Parkside Housing

520 EAST CASTLE STREET,
MURFREESBORO, TN 37130

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PIC	M. BUTLER
PM	M. BUTLER
PA	G. TAYLOR
Drawn By:	G.TAYLOR
Checked By:	J. BRADLEY

Sheet Description:

A-021

ARCHITECTURAL SITE PLAN

EXTERIOR FINISH LEGEND

PREFINISHED HARDIE (OR MATCH)

01 - ARCTIC WHITE

02 - LIGHT MIST

NOTE: USED ON LAP SIDING AND VERTICAL SIDING (BOARD & BATTEN)

PAINT COLORS & MISC.

03 - IRON ORE (SW 7069)

04 - EXTRA WHITE (SW 7006)

05 - WOOD FINISH

ROOF COLORS

ROOF 01 OAKRIDGE ESTATE GRAY

ROOF 02 METAL ROOF @ PORCHES STANDING SEAM

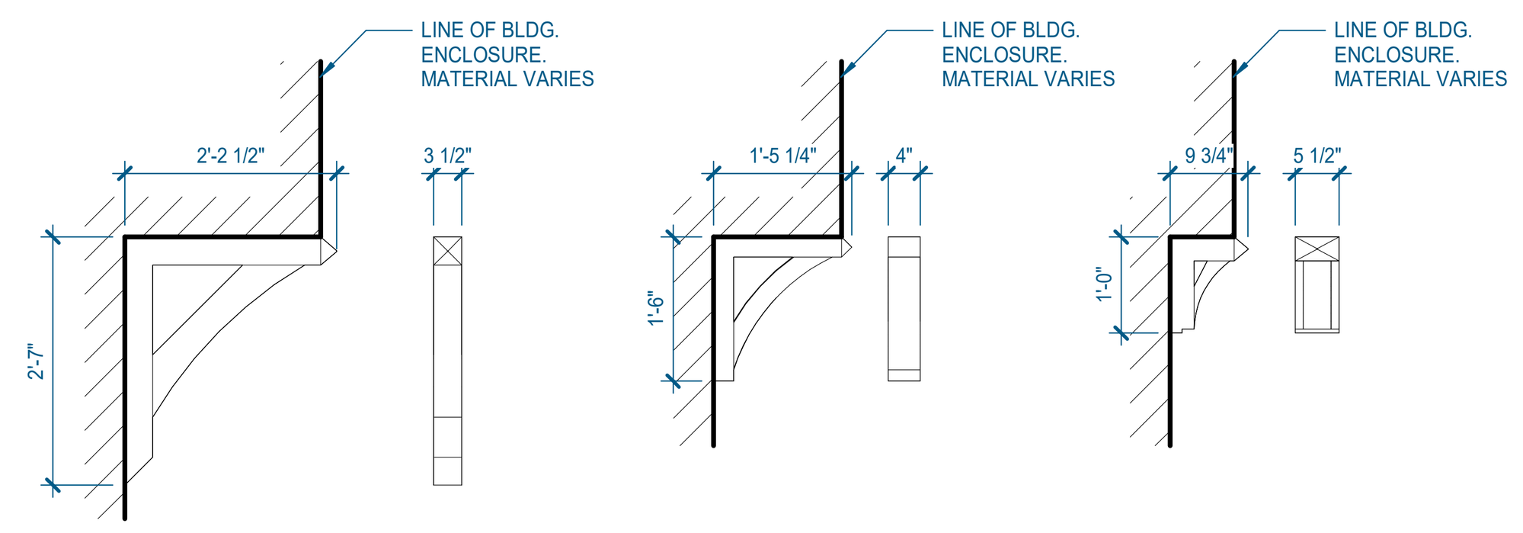
BRICK COLORS

NOTE: MORTAR LINES FOR GRAPHIC PURPOSES ONLY. NOT INDICATIVE OF ACTUAL MORTAR COLOR.

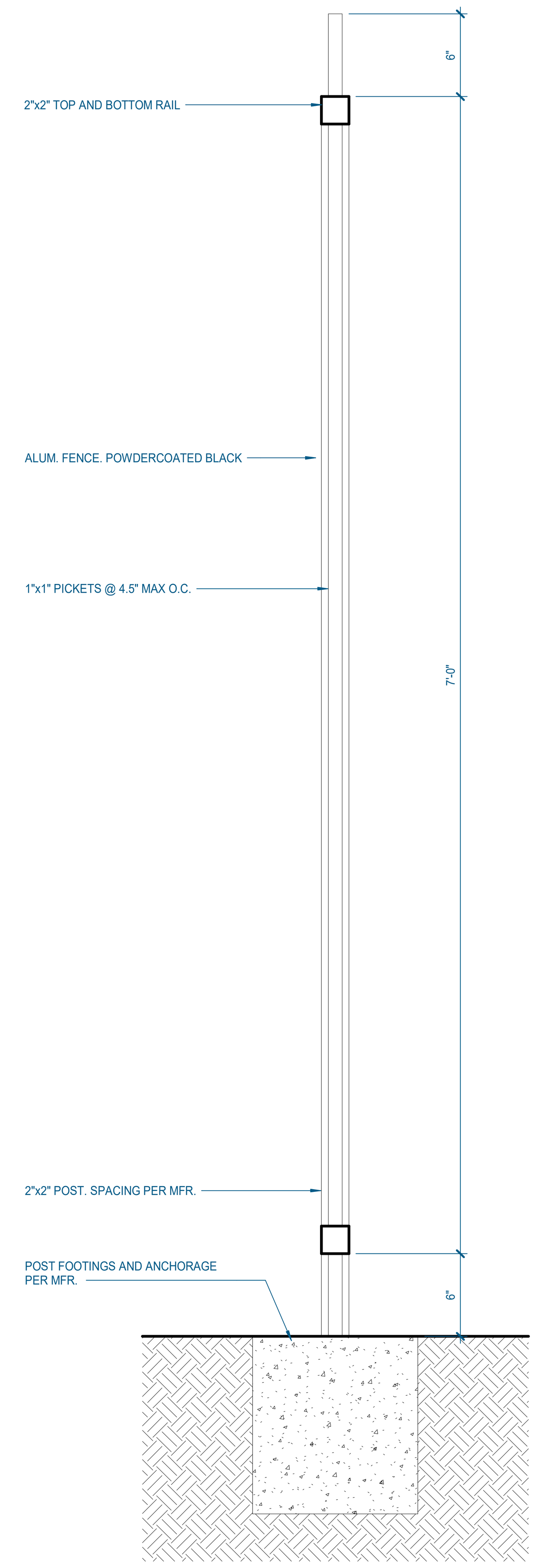
BRICK 01 GENERAL SHALE MIDNIGHT MIST

BRICK 02 MERIDIAN CAVALRY GREY

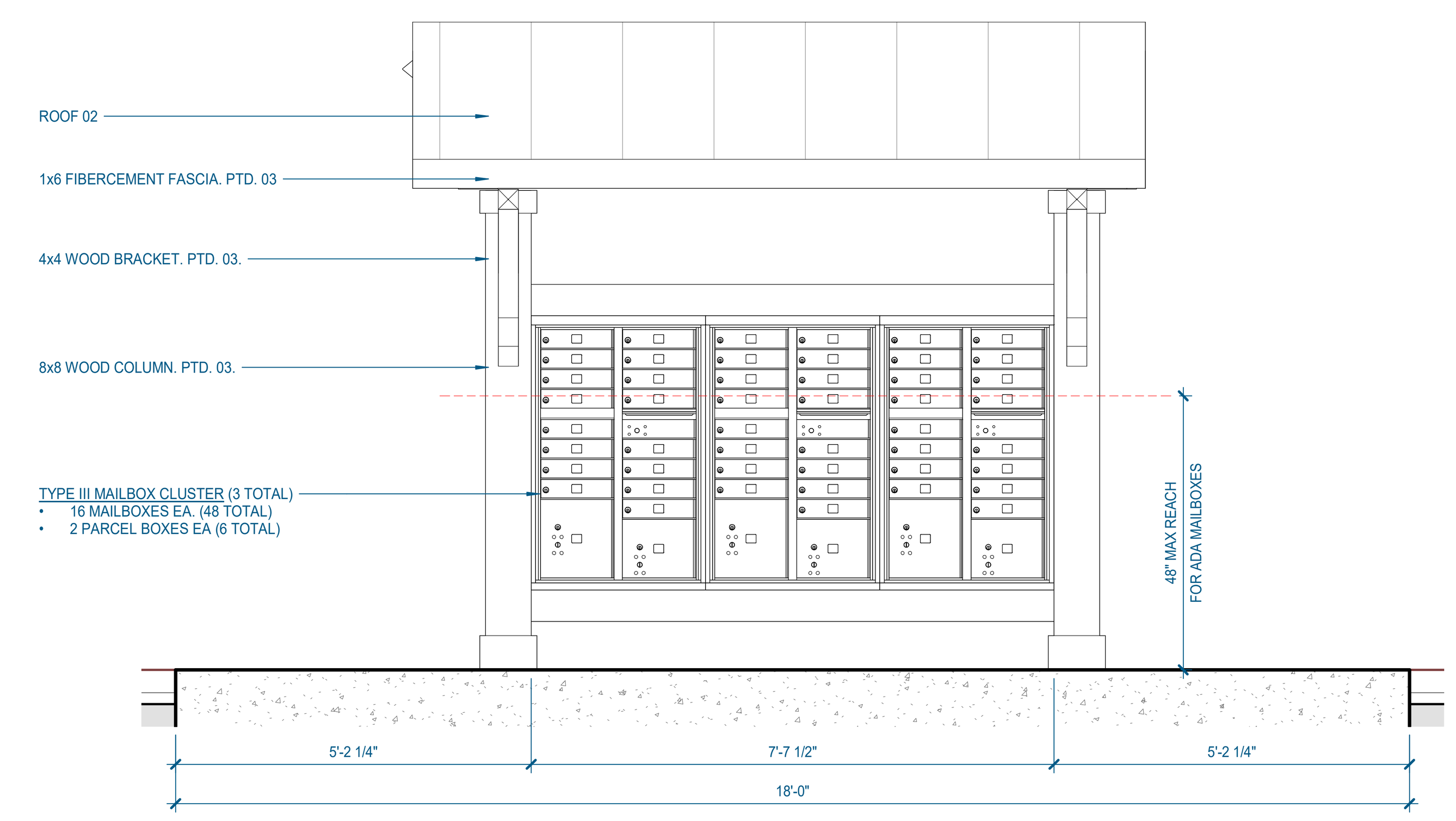
BRICK 03 GENERAL SHALE WINTERHAVEN



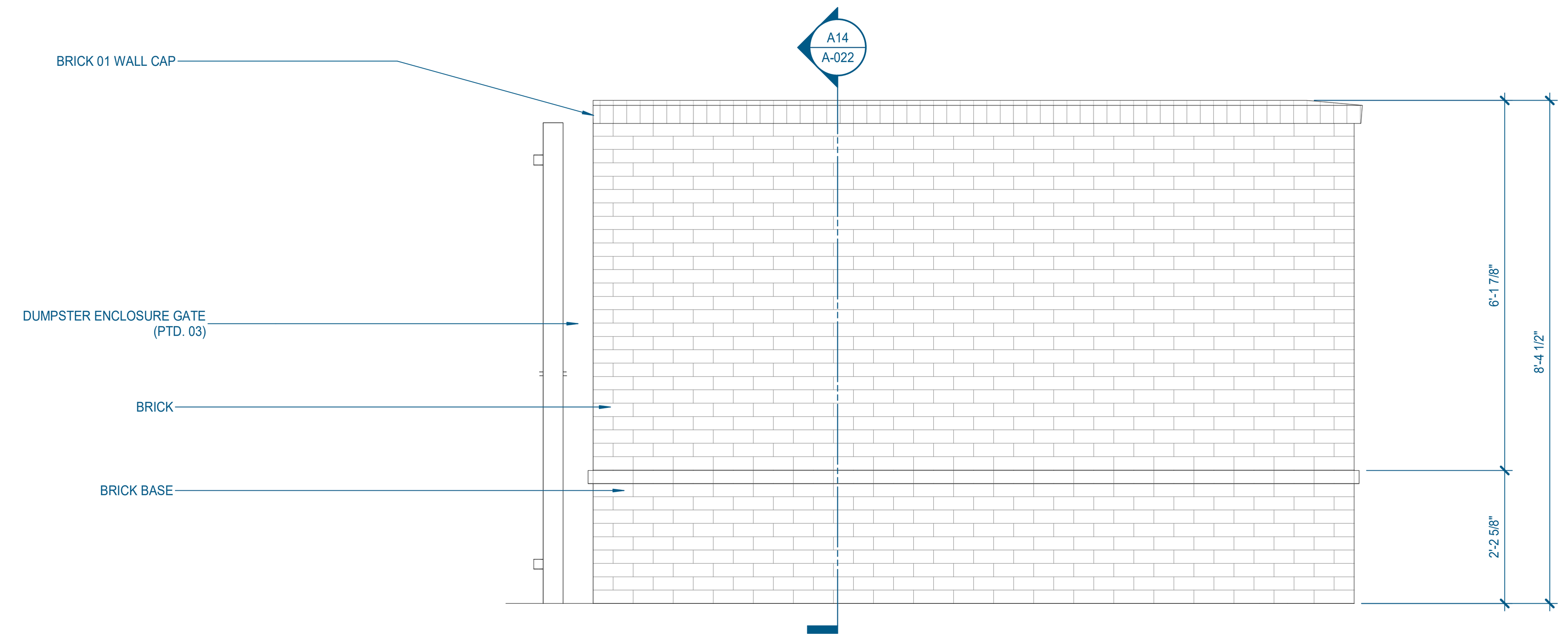
P22 BRACKET DETAILS
1/2" = 1'-0"



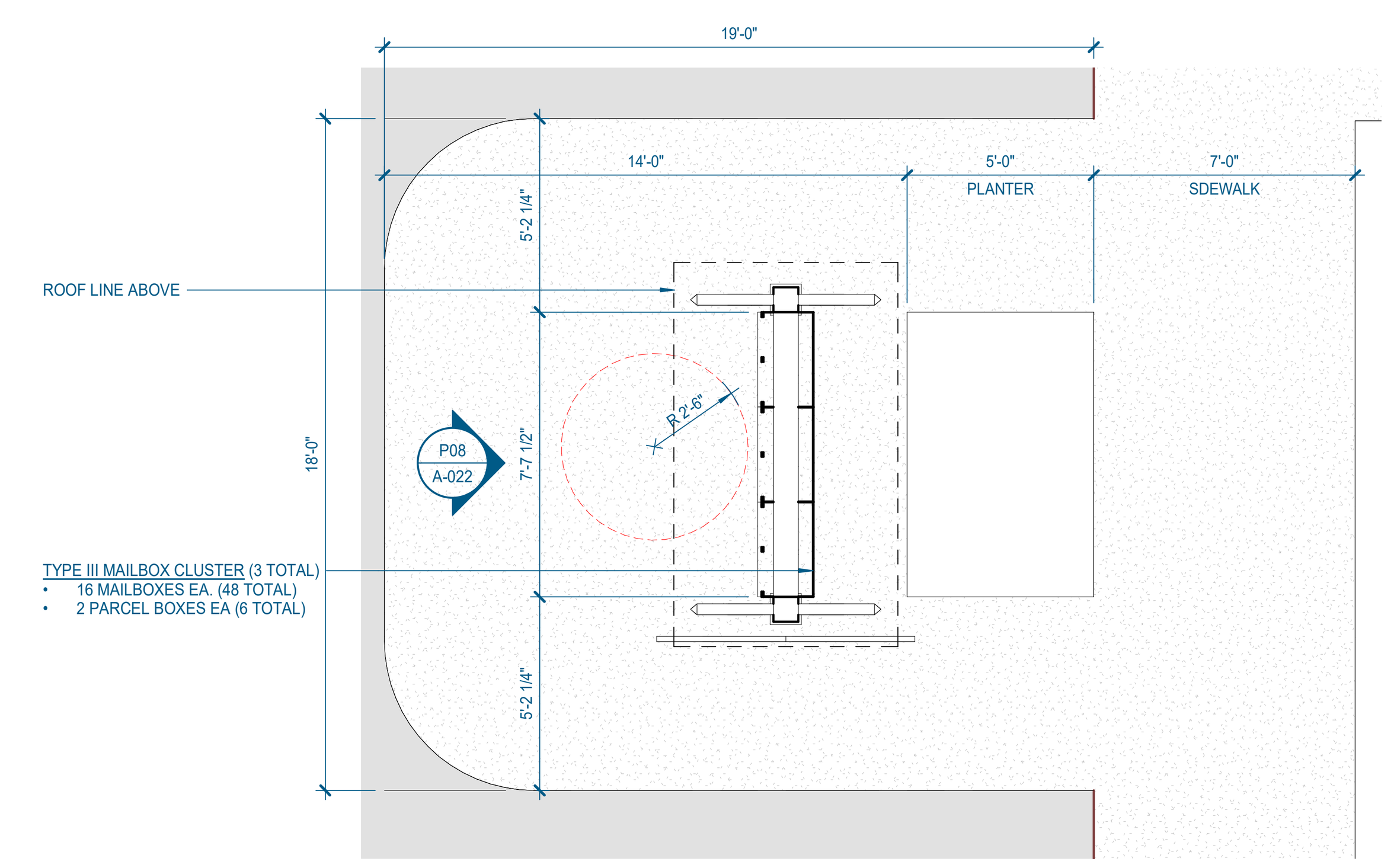
J14 FENCE DETAILS
1 1/2" = 1'-0"



P08 MAILBOX CLUSTER - ENLARGED ELEVATION
1/2" = 1'-0"

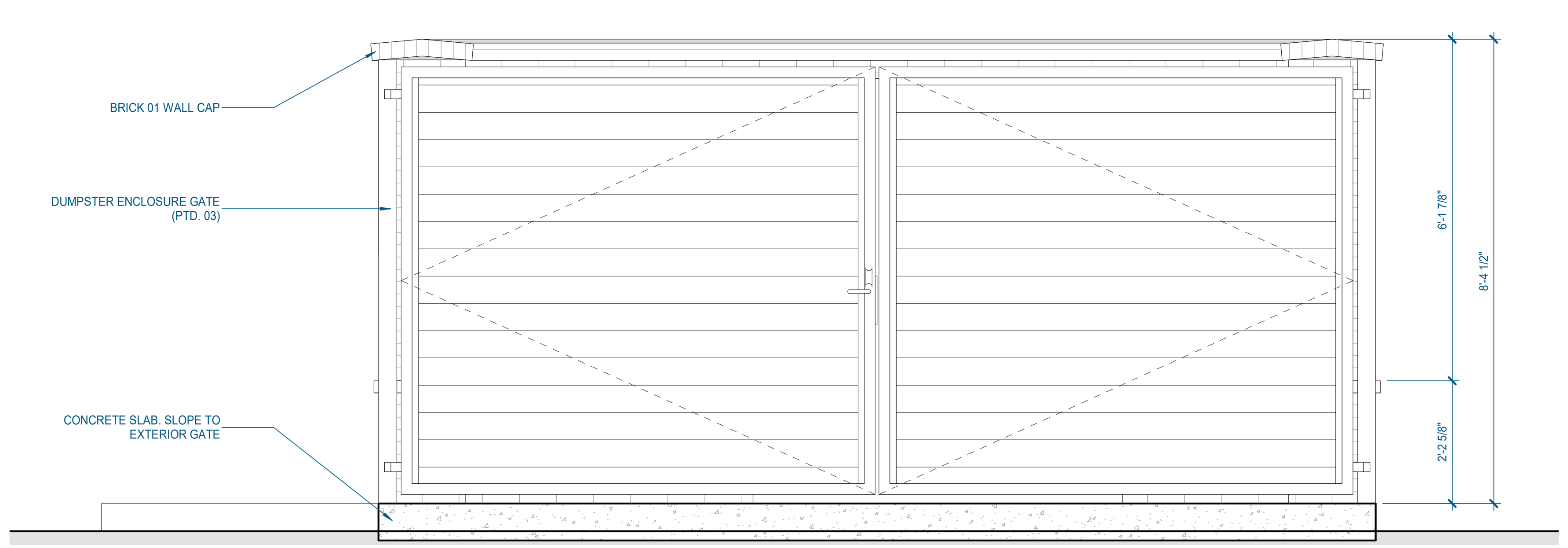


J24 DUMPSTER ENCLOSURE - WEST ELEVATION. EAST SIM
1/2" = 1'-0"

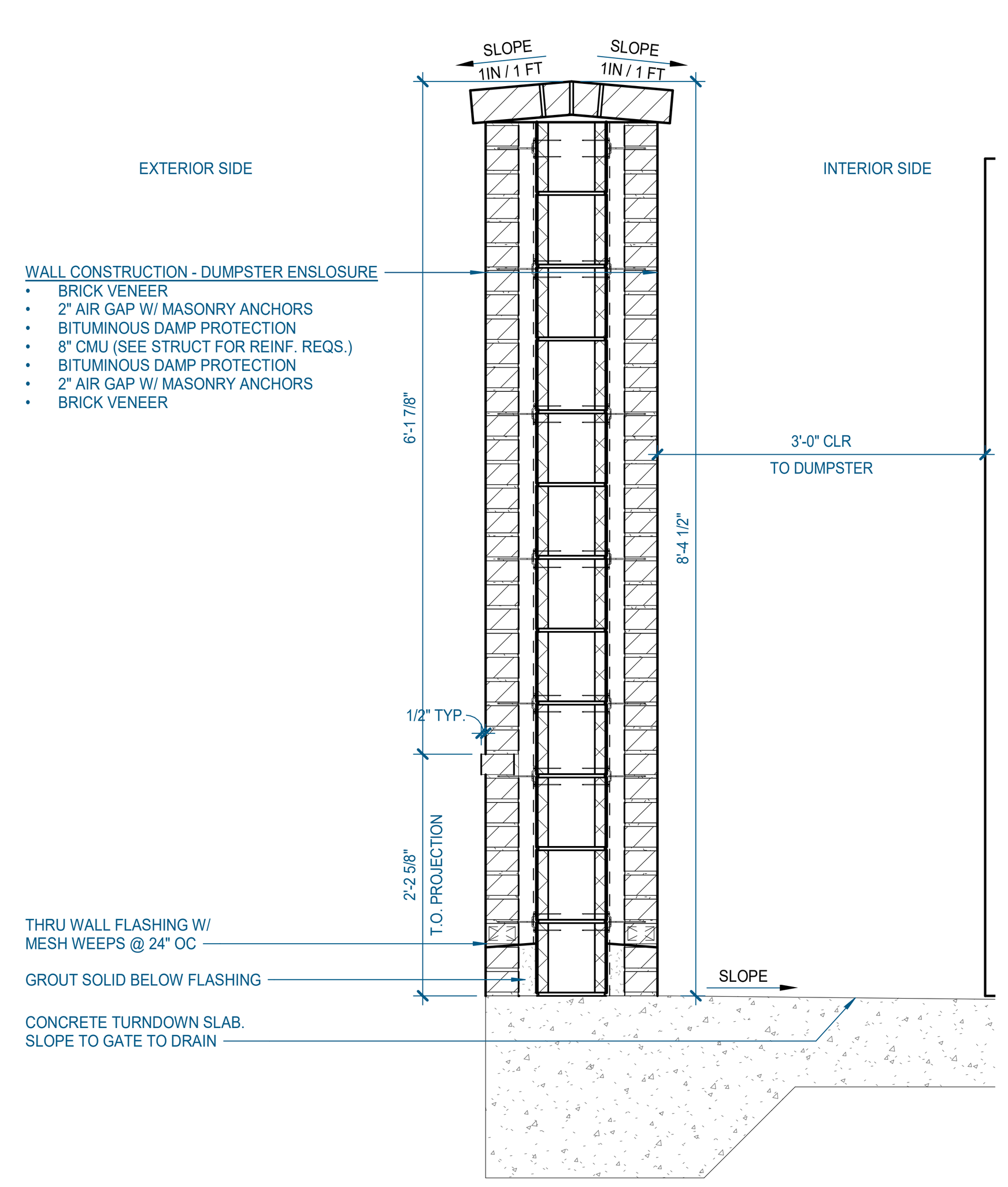


J08 SITE PLAN - MAILBOX KIOSK - ENLARGED PLAN
1/4" = 1'-0"

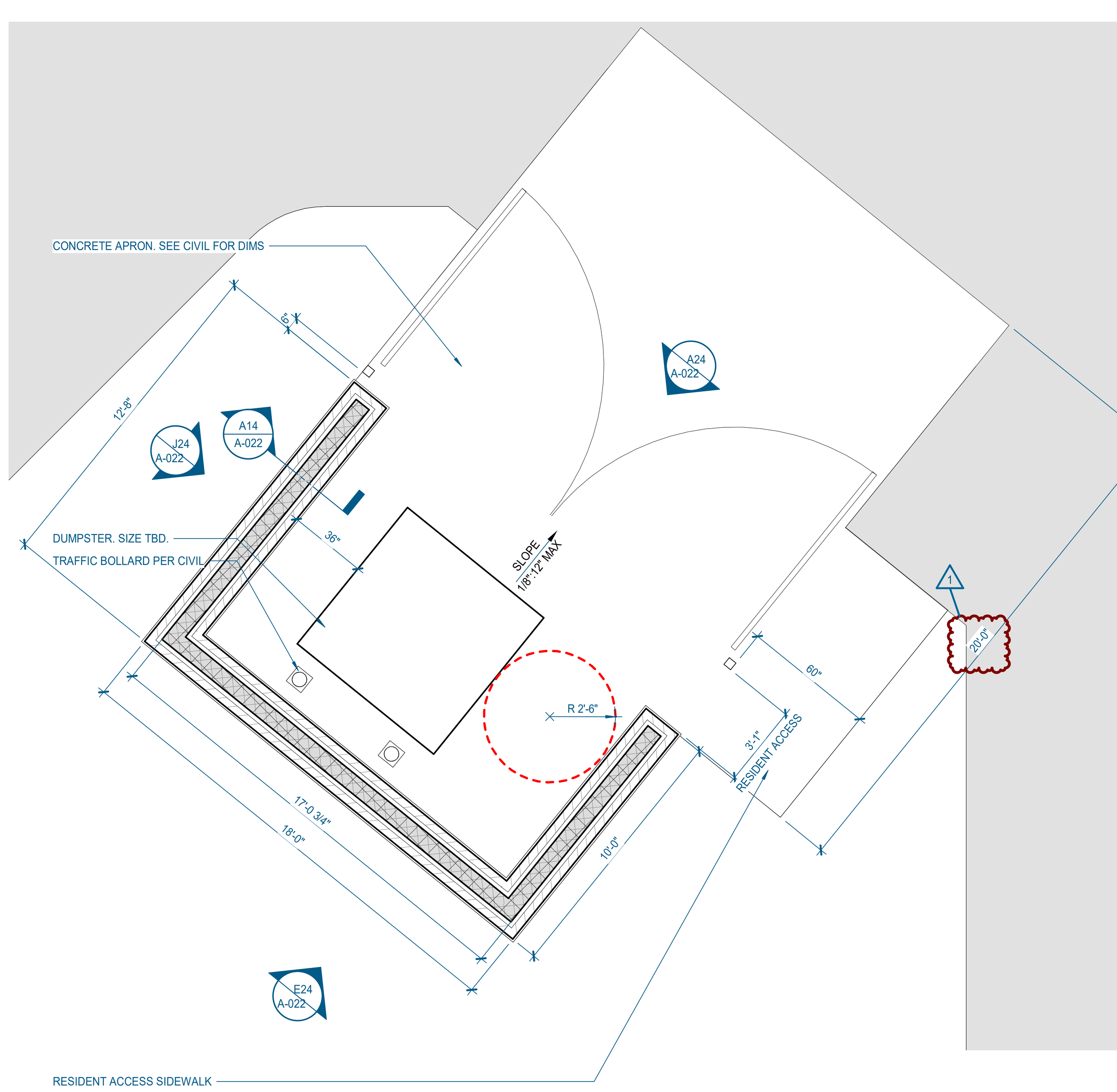
E24 DUMPSTER ENCLOSURE- SOUTH ELEVATION
1/2" = 1'-0"



A24 DUMPSTER ENCLOSURE - NORTH ELEVATION
1/2" = 1'-0"



A14 DUMPSTER ENCLOSURE - WALL SECTION
3/4" = 1'-0"



A08 SITE PLAN - DUMPSTER ENCLOSURE - ENLARGED PLAN
1/4" = 1'-0"

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2112 N.W. BROAD ST.
MURFREESBORO, TN 37129
615.893.4084

LANDSCAPE ARCHITECT:
RAGAN SMITH
100 E. VINE ST., STE 200
MURFREESBORO, TN 37130
615.546.6050

STRUCTURAL ENGINEER:
HAINES STRUCTURAL GROUP
800 S. GAY ST., STE 1750
KNOXVILLE TN, 37929
865.329.9920

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FACILITY SYSTEMS CONSULTANTS
713 S. CENTRAL ST., STE 101
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865.246.0164

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713 S. CENTRAL ST., STE 101
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Project Information:

21026

MHA Parkside Housing

520 EAST CASTLE STREET,
MURFREESBORO, TN 37130

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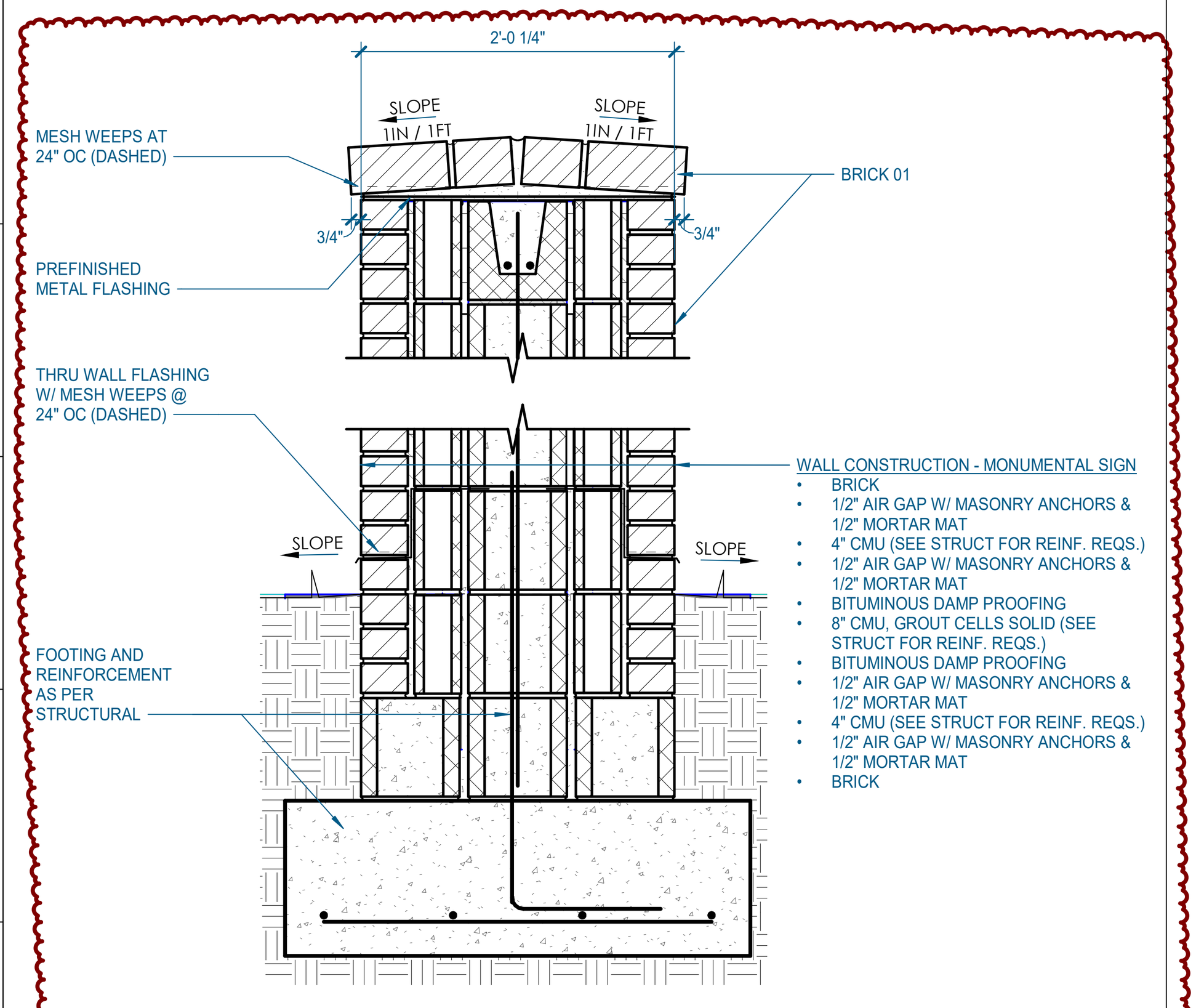
PA	G. TAYLOR
Drawn By:	Author
Checked By:	J. BRADLEY

Sheet Description:

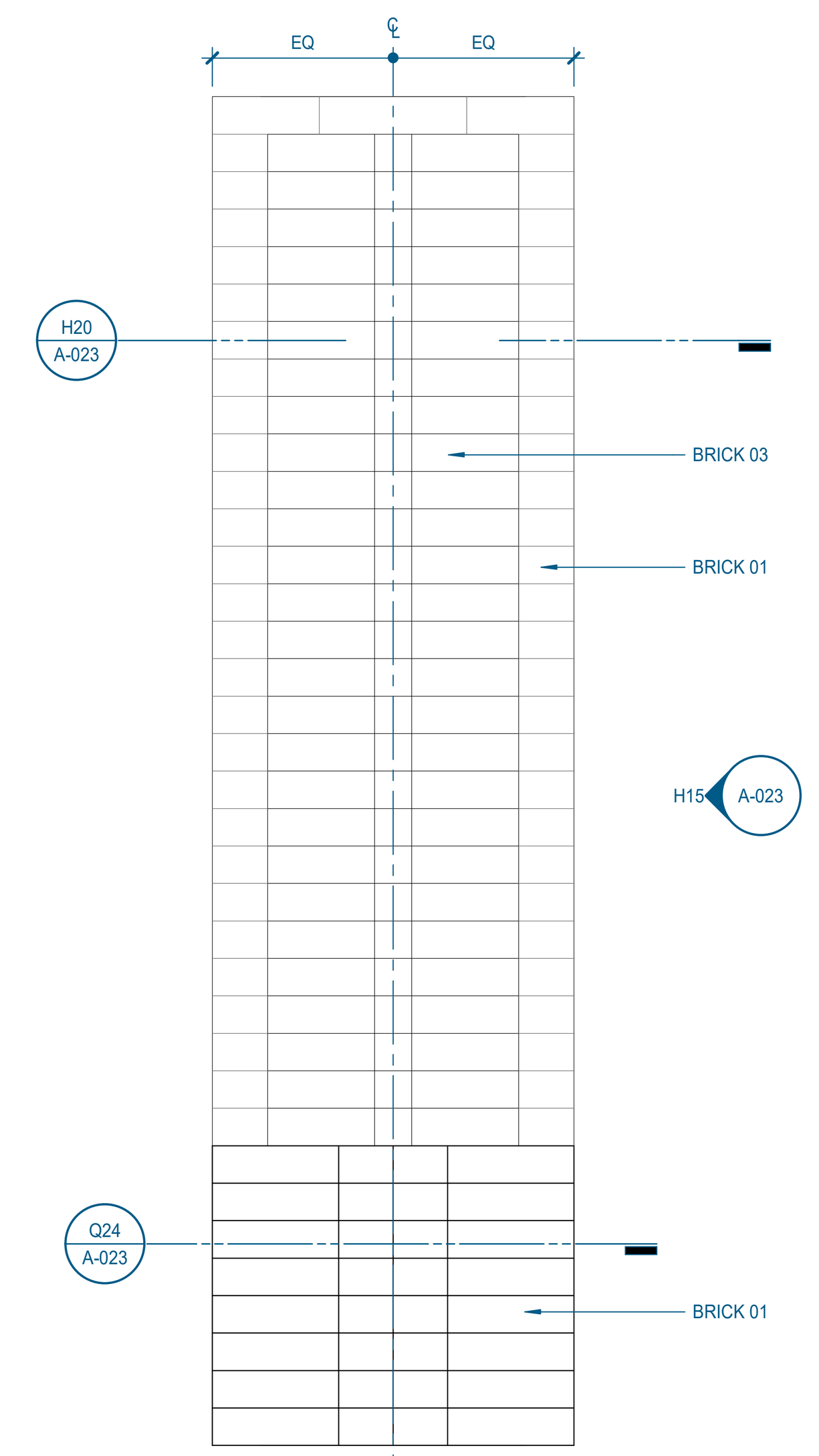
A-022

ARCHITECTURAL SITE DETAILS

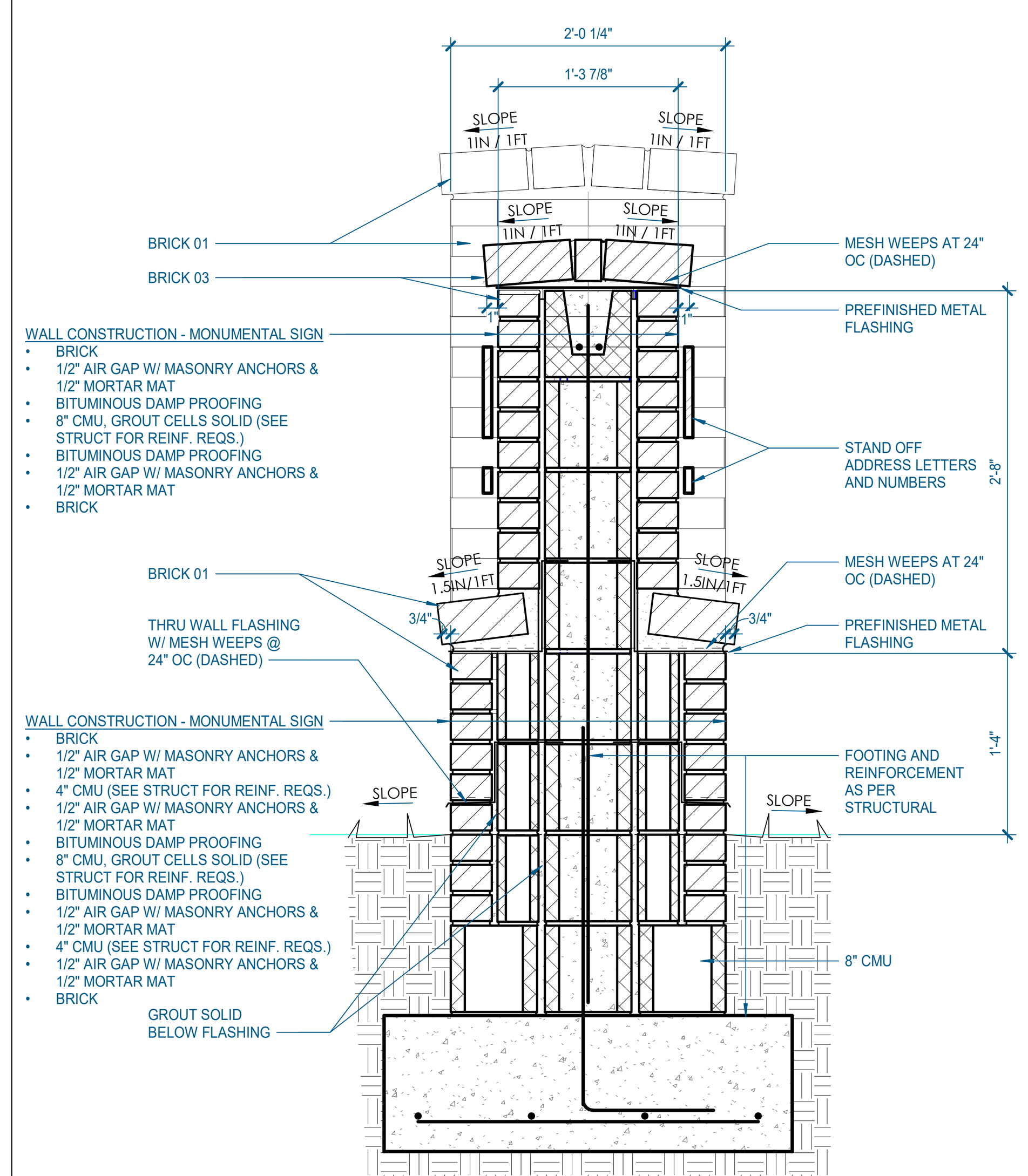
11/15/2023 2:51:15 PM



Q24 MONUMENTAL SIGN - SECTION DETAIL
1" = 1'-0"



H24 MONUMENTAL SIGN - ENLARGED PLAN
1" = 1'-0"



H20 MONUMENTAL SIGN - SECTION DETAIL
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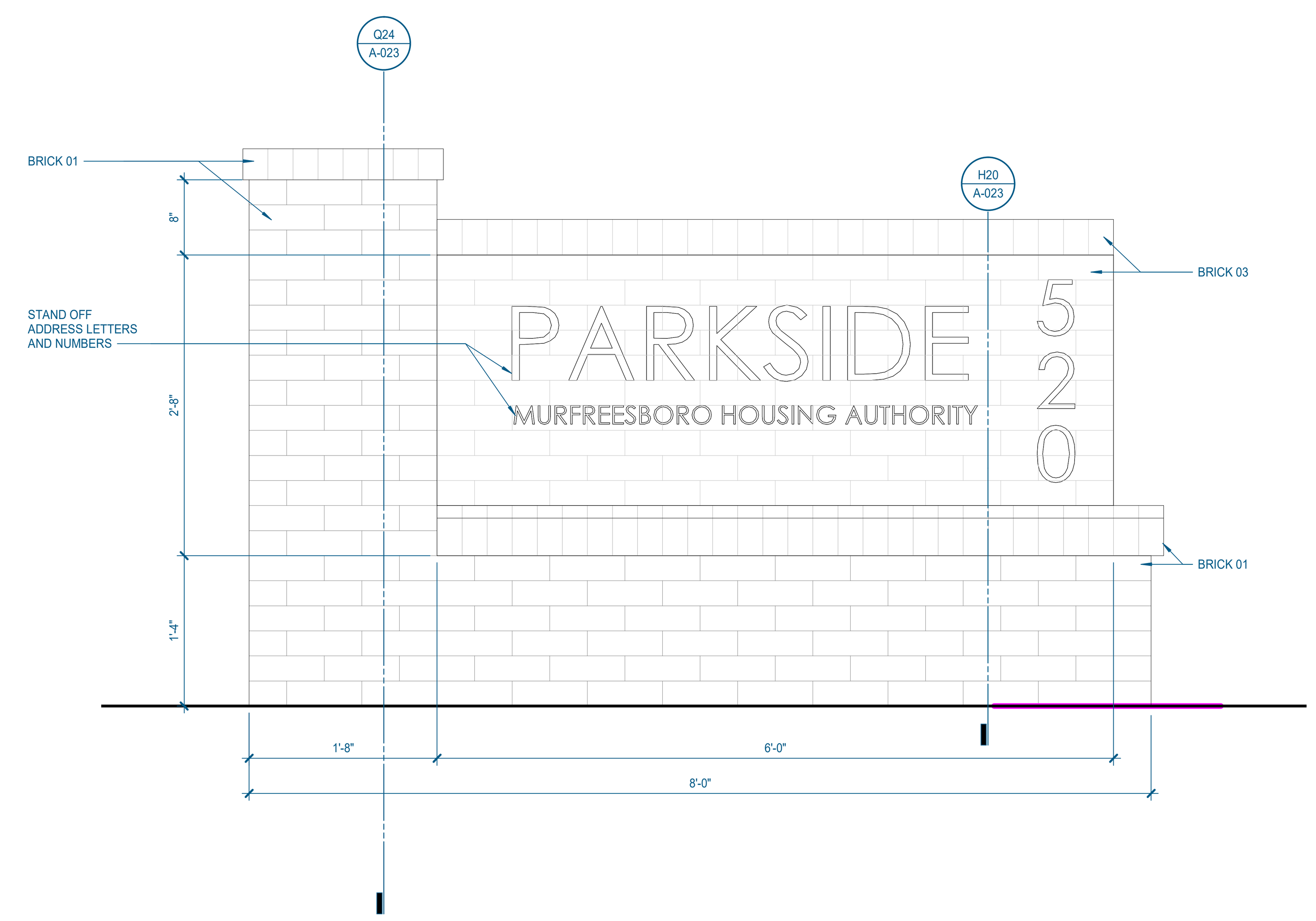
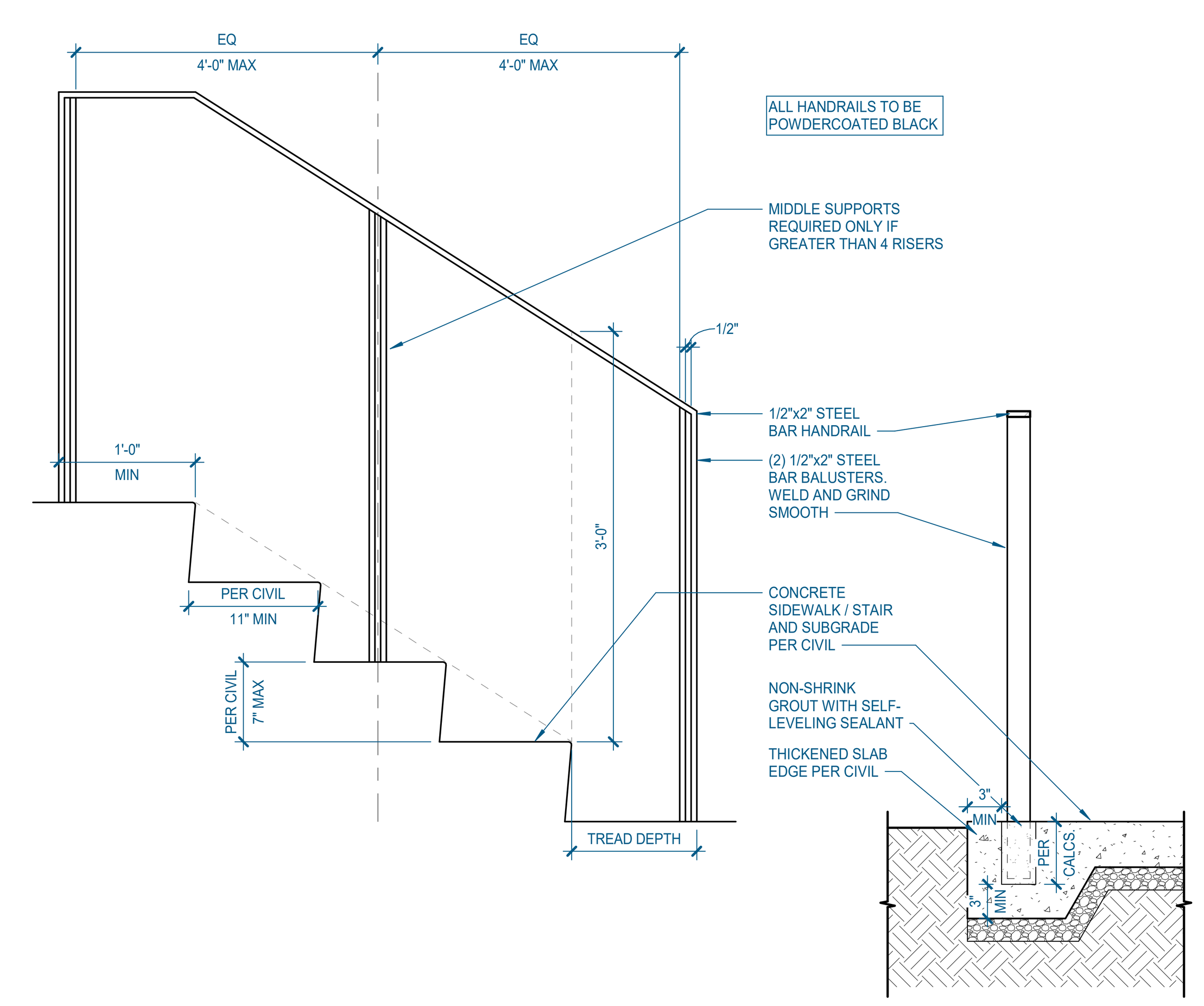
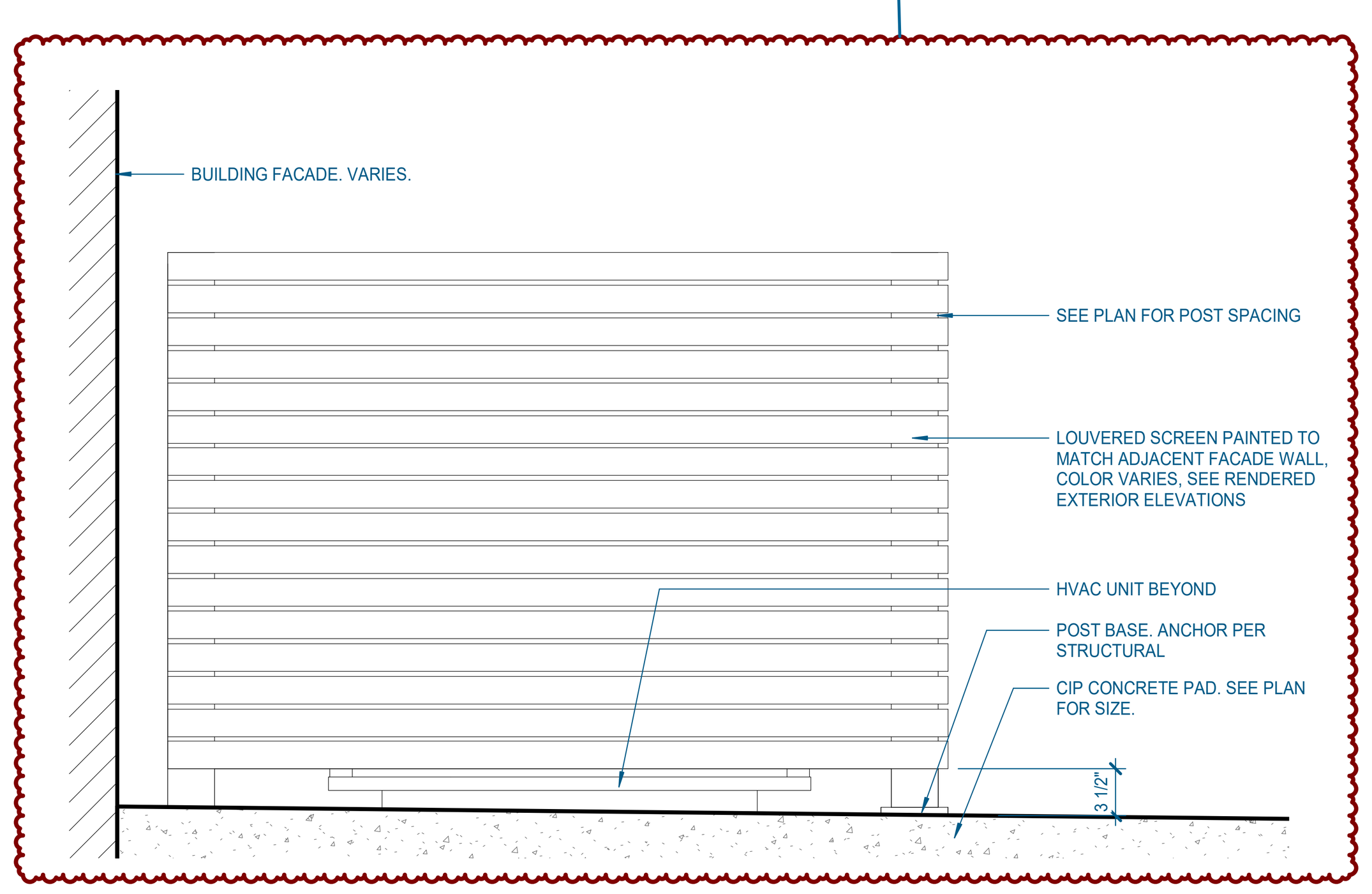


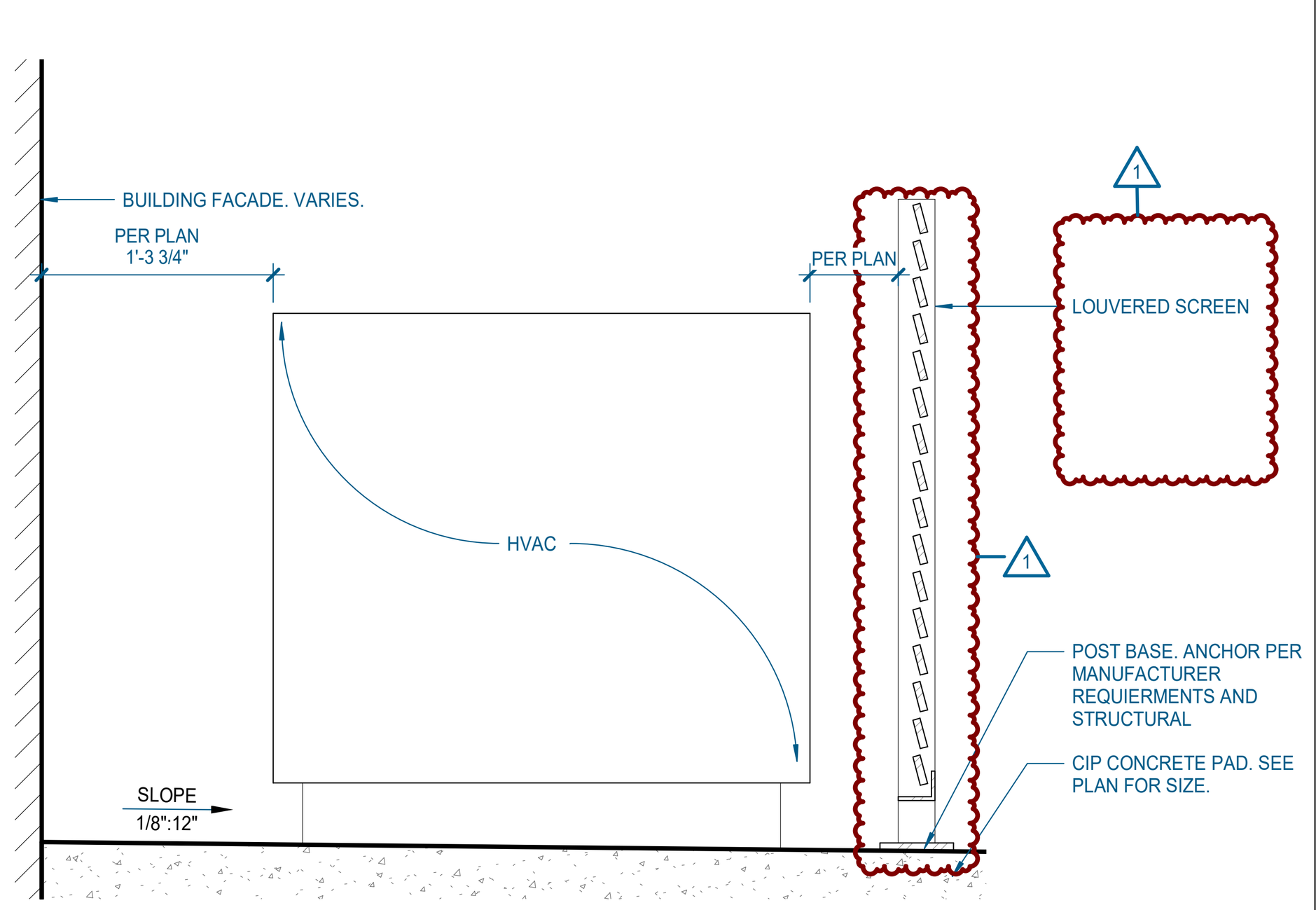
H15 MONUMENTAL SIGN - ELEVATION
1" = 1'-0"



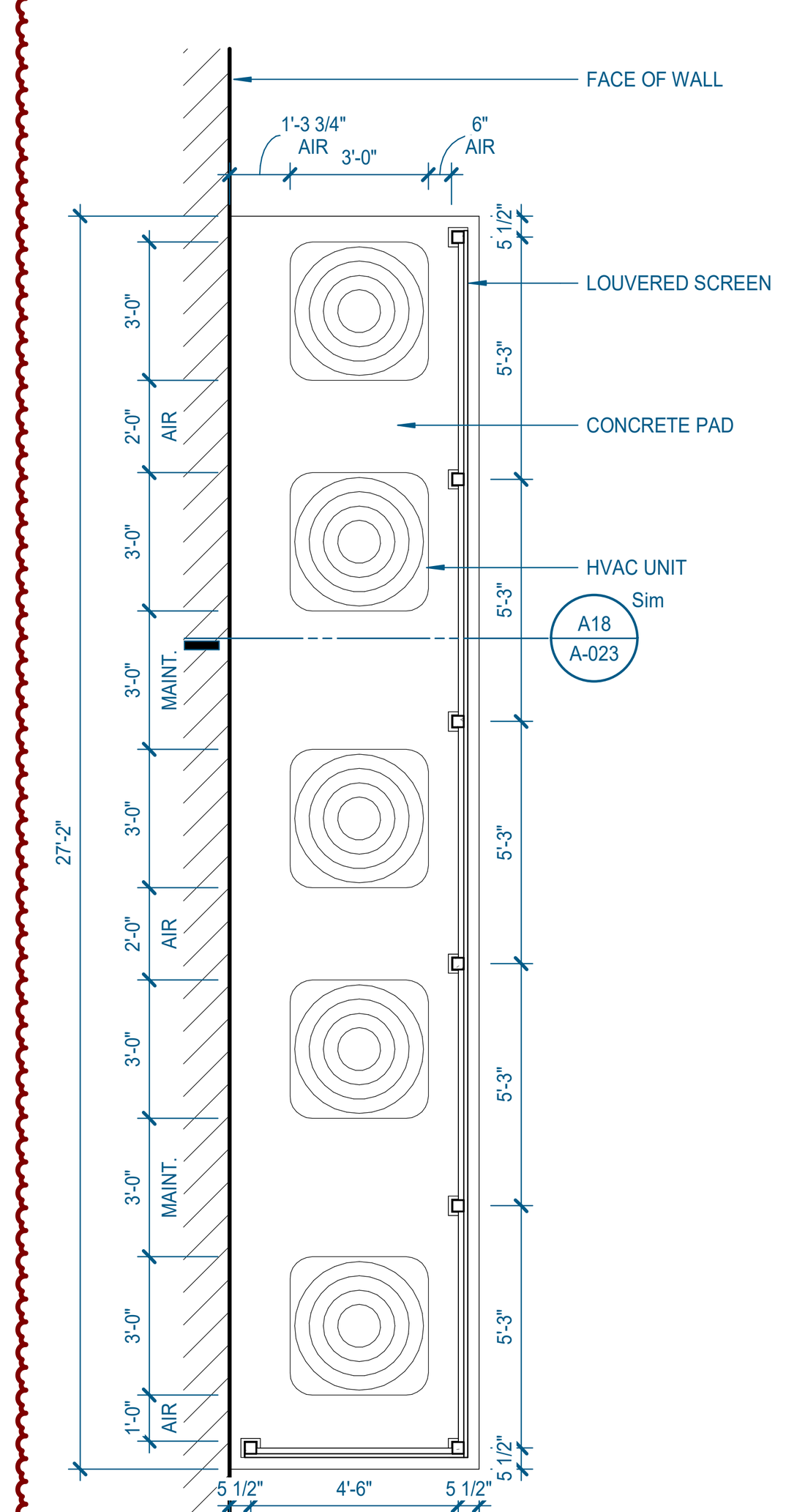
H06 SITE HANDRAILS
1" = 1'-0"



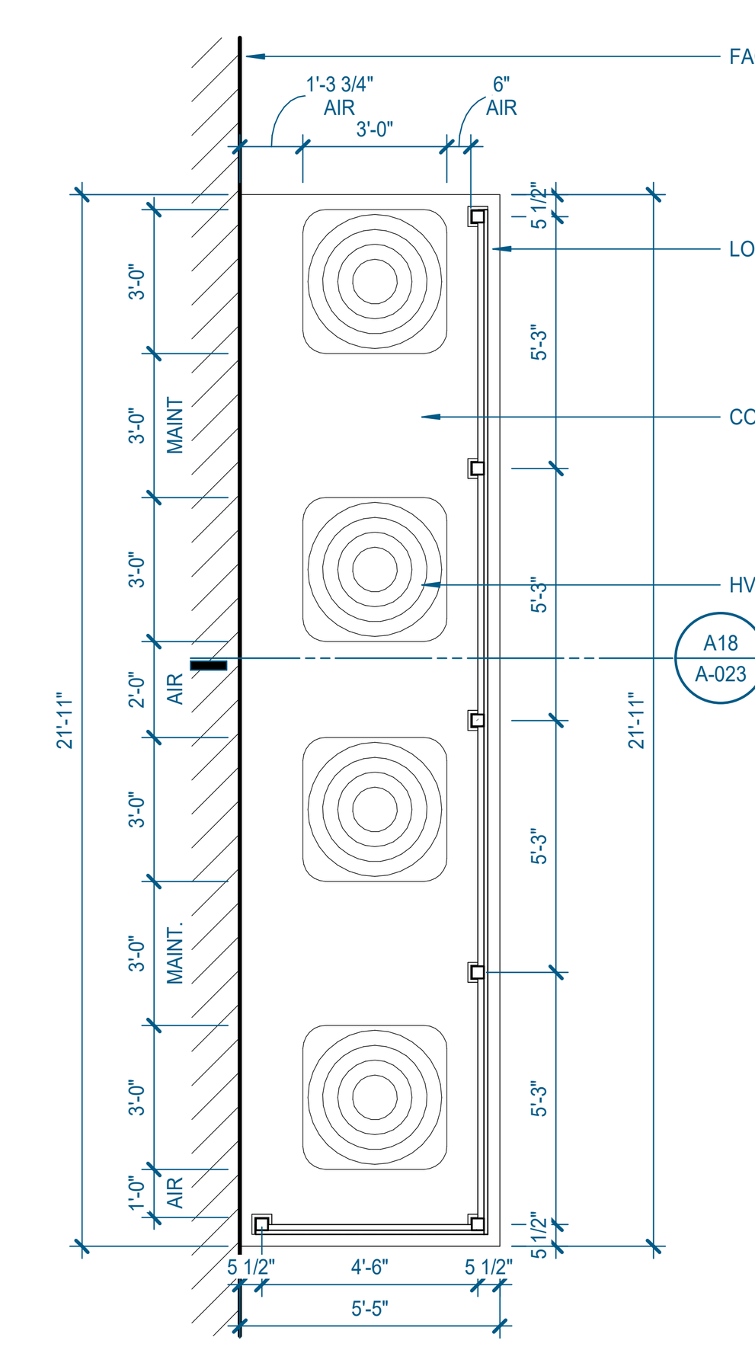
H14 HVAC ENCLOSURE - FRONT ELEVATION
1" = 1'-0"



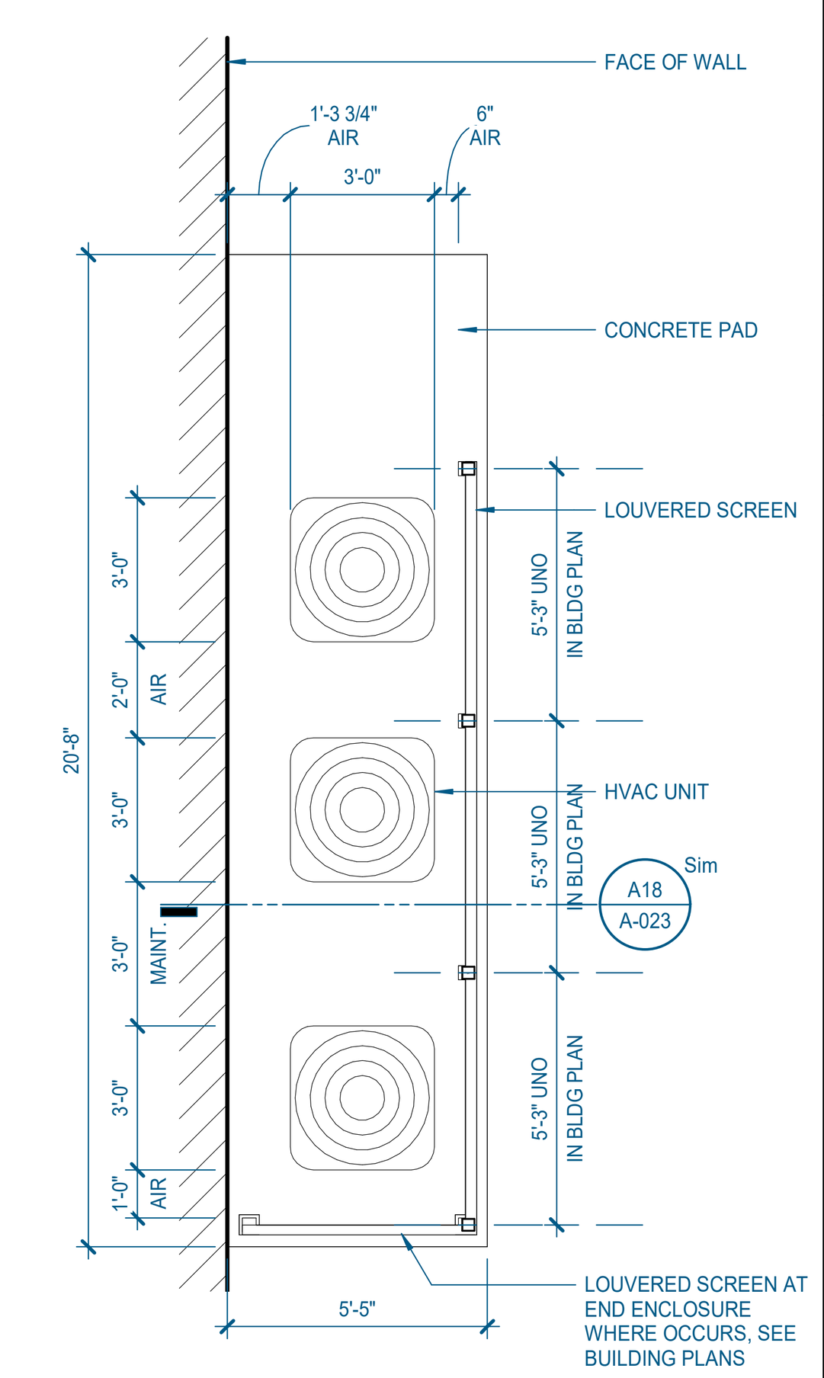
A18 TYP. HVAC ENCLOSURE SECTION
1" = 1'-0"



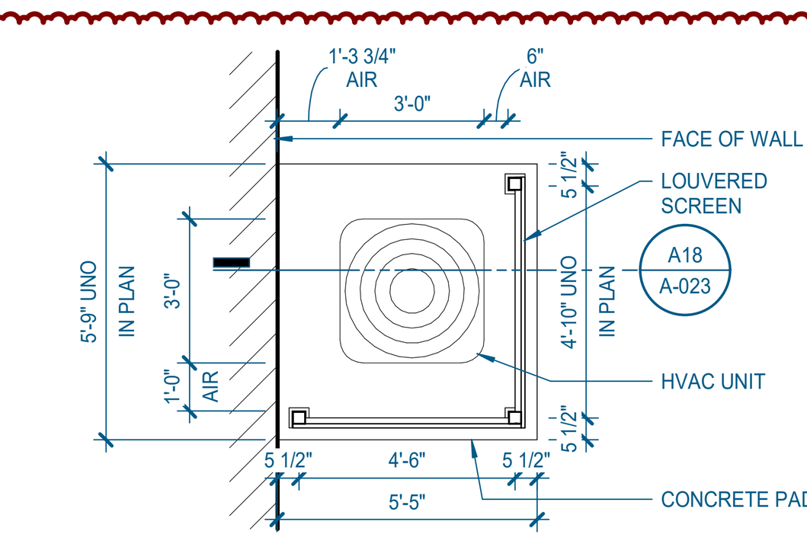
A13 HVAC ENCLOSURE
1/4" = 1'-0"



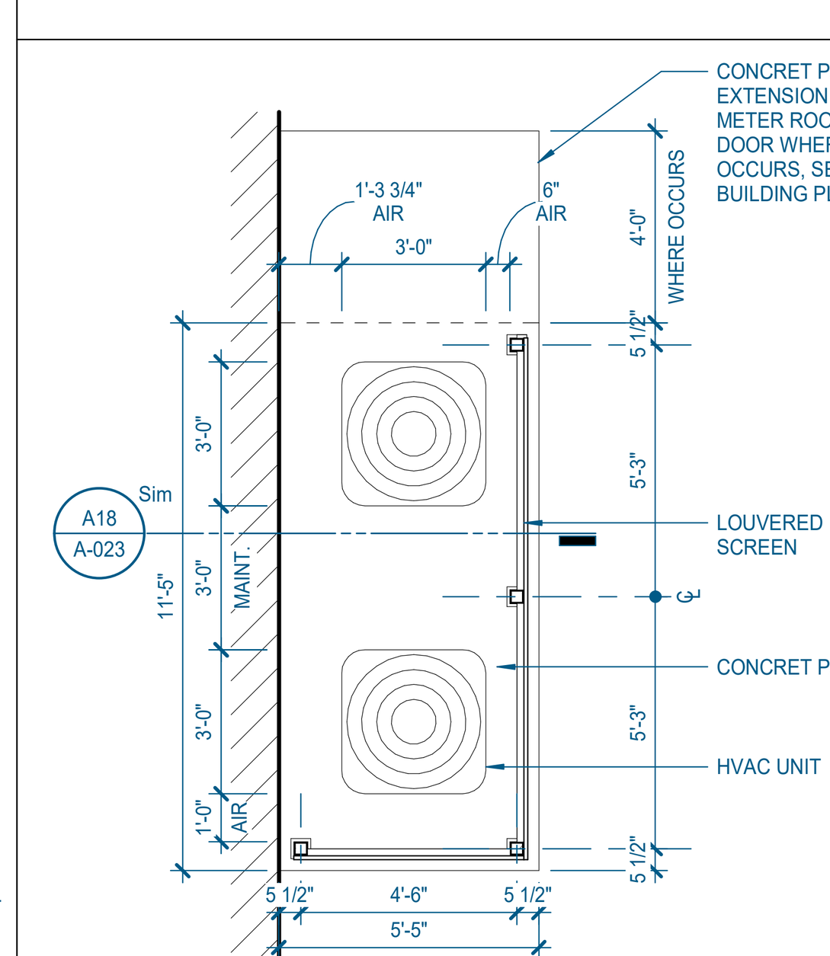
A10 HVAC ENCLOSURE
1/4" = 1'-0"



A06 HVAC ENCLOSURE
1/4" = 1'-0"



E03 HVAC ENCLOSURE
1/4" = 1'-0"



A03 HVAC ENCLOSURE
1/4" = 1'-0"

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713 S. CENTRAL ST., STE 101
KNOXVILLE TN, 37902
865.246.0164

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520 EAST CASTLE STREET,
MURFREESBORO, TN 37130

MARGARET L. BUTLER, REGISTERED ARCHITECT, AGRICULTURE, COMMERCE, No. 00021..., STATE OF TENNESSEE
08/23/22

Consultant:

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PA	G. TAYLOR
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Checked By:	J. BRADLEY

Sheet Description:

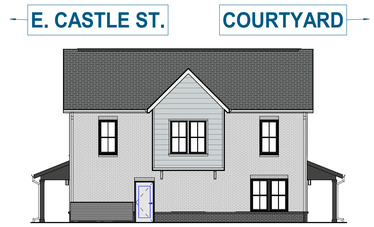
A-023

ARCHITECTURAL SITE DETAILS

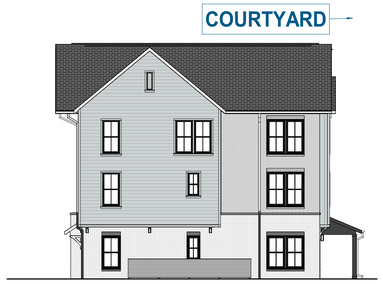
11/15/2023 2:51:22 PM

R24 BLDG C - W. ELEV - FACING PARKING LOT (C* E. ELEV SIM-MIRRORED)
3/32" = 1'-0"

R15 BLDG B - W. ELEV - FACING PARKING LOT (B* E. ELEV SIM-MIRRORED)
3/32" = 1'-0"

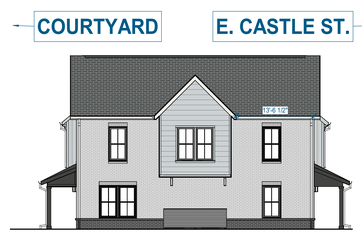


R06 BLDG A - W. ELEV - FACING PARKING LOT (A* E. ELEV SIM-MIRRORED)
3/32" = 1'-0"



M24 BLDG C - E. ELEV - FACING INT. PATHWAY (C* W. ELEV SIM-MIRRORED)
3/32" = 1'-0"

M15 BLDG B - E. ELEV. - FACING COURTYARD (B* W. ELEV. SIM-MIRRORED)
3/32" = 1'-0"



M06 BLDG A - E. ELEV - FACING INT. PATHWAY (A* W. ELEV SIM-MIRRORED)
3/32" = 1'-0"

H24 BLDG C - S. ELEV
3/32" = 1'-0"

H15 BLDG B - S. ELEV (B* SIM-MIRRORED)
3/32" = 1'-0"

H06 BLDG A - S. ELEV - FACING COURTYARD (A* SIM-MIRRORED)
3/32" = 1'-0"

E24 BLDG C - N. ELEV - FACING COURTYARD
3/32" = 1'-0"

E15 BLDG B - N. ELEV (B* SIM-MIRRORED)
3/32" = 1'-0"

E06 BLDG A - N. ELEV - FACING E. CASTLE ST. (A* SIM-MIRRORED)
3/32" = 1'-0"

EXTERIOR FINISH LEGEND

PREFINISHED HARDIE (OR MATCH)

01 - ARCTIC WHITE

02 - LIGHT MIST

NOTE: USED ON LAP SIDING AND VERTICAL SIDING (BOARD & BATTEN)

PAINT COLORS & MISC.

03 - IRON ORE (SW 7069)

04 - EXTRA WHITE (SW 7006)

05 - WOOD FINISH

ROOF COLORS

ROOF 01 OAKRIDGE ESTATE GRAY

ROOF 02 METAL ROOF @ PORCHES STANDING SEAM

BRICK COLORS

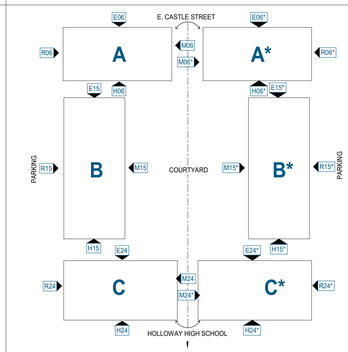
NOTE: MORTAR LINES FOR GRAPHIC PURPOSES ONLY. NOT INDICATIVE OF ACTUAL MORTAR COLOR

BRICK 01 GENERAL SHALE MIDNIGHT MIST

BRICK 02 MERIDIAN CAVALRY GREY

BRICK 03 GENERAL SHALE WINTERHAVEN

KEY PLAN



* INDICATES MIRRORED ELEVATION

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MHM

McCarty Holsaple McCarty, Inc.
550 W. Main St., Suite 300
Knoxville, TN 37902
t 865.544.2000
www.mhminc.com

Consultants:

CIVIL ENGINEER:

HUDDLESTON-STEELE ENGINEERING INC.

2112 N.W. BROAD ST.
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KNOXVILLE TN, 37929
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FACILITY SYSTEMS CONSULTANTS

713 S. CENTRAL ST., STE 101
KNOXVILLE TN, 37902
865.246.0164

ELECTRICAL ENGINEER:

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Project Information:

21026

MHA Parkside Housing

520 EAST CASTLE STREET,
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Seal:

Consultant:

#	ISSUE	DATE

Issue Date:	04/04/2022
PIC	M. BUTLER
PM	M. BUTLER
PA	G. TAYLOR
Drawn By:	L. McCARTY
Checked By:	J. BRADLEY

Sheet Description:

A-030

RENDERED BUILDING ELEVATIONS

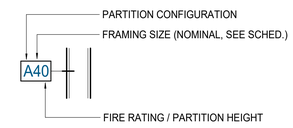
FINISH LEGEND - TYPICAL ALL BUILDINGS

ITEM	TAG	MATERIAL	LOCATION	SPECIFICATION
FLOOR FINISH				
	LVT-1	LUXURY VINYL TILE	GENERAL	MOHAWK GROUP, HOT & HEAVY COLLECTION, PATTERN: #C0009 SECOYA, COLOR: 123 BENMORE, SIZE: 9"x59", THICKNESS: 5MM, WEAR LAYER: 20 MIL
BASE/TRIM FINISH				
	B-1	WOOD BASE	GENERAL	1X4 PAINTED WOOD BASE, SEMI-GLOSS FINISH, PT-3
	T-1	PRIVATE STAIR TREADS & LANDINGS	MULTI-STORY UNITS	1" WOOD STAIR TREADS AND LANDINGS, FULL BULLNOSE PROFILE, STAINED, TBD BASED ON SAMPLES OF: 1) MMWAX EBONY 27.18. 2) MMWAX TRUE BLACK 274. 3) CONTRACTOR'S MIX OF 1 & 2.
WALL FINISH				
	PT-1	PAINT	CEILING	BENJAMIN MOORE, COLOR: OC-149 CEILING DECORATOR'S WHITE, FLAT FINISH
	PT-2	PAINT	GENERAL	BENJAMIN MOORE, COLOR: OC-22 CALM, EGGSHELL FINISH; SATIN FINISH IN THE BATHROOM, LAUNDRY & KITCHEN
	PT-3	PAINT	TRIM, PRIVATE STAIR RISERS, PRIVATE STAIR TRIM	BENJAMIN MOORE, COLOR: OC-149 DECORATOR'S WHITE, SEMI-GLOSS FINISH
	WT-1	CERAMIC WALL TILE	KITCHEN BACKSPLASH	BOSS FLOORING, ARRAY SUBWAY TILE, COLOR: U081 WHITE ICE, FINISH: BRIGHT, SIZE: 3"x6", INSTALL: STACKED, GROUT: GT-1. CONTACT: SEAN VAUGHN (404)992.3434
MILLWORK FINISH				
	QT-1	QUARTZ	KITCHEN COUNTER	WILSONART QUARTZ SELECT, MARFA Q6019
	SS-1	SOLID SURFACE	BATHROOM COUNTER	WILSONART SOLID SURFACE, COLOR: DESIGNER WHITE D354SL(1)
	MW-1	UPPER CABINETRY	KITCHEN	ADVANTA CABINETS, RUTLEDGE SLAB, PAINT, COLOR: ALPINE WHITE
	MW-2	LOWER CABINETRY & ISLAND CABINETRY	KITCHEN	ADVANTA CABINETS, RUTLEDGE SLAB, PAINT, COLOR: ONYX
	MW-3	VANITY	BATHROOM	ADVANTA CABINETS, RUTLEDGE SLAB, PAINT, COLOR: RIVER ROCK
CEILING FINISH				
	GYP	GYPSUM WALL BOARD		PAINTED PT-1
MISCELLANEOUS				
	GT-1	GROUT		TO BE USED W/ WT-1: TEC 949 SILVERADO

ENLARGED PLAN AND INTERIOR ELEVATION GENERAL NOTES

1. REFER TO SHEET A-001 FOR ADDITIONAL GENERAL NOTES.
2. ALL NEW PARTITIONS SHALL BE TYPE **A40**, UNO; REFER TO PARTITION SCHEDULE FOR MORE INFORMATION.
3. TYPICAL DIMENSIONS SHOWN ON THE FLOOR PLANS FOR NEW CONSTRUCTION ARE TO THE FACE OF STUD, UNLESS OTHERWISE NOTED.
4. PLUMBING LOCATIONS ARE DIMENSIONED FROM FINISHED FACE OF DRYWALL TO PLUMBING CENTERLINE.
5. PARTITION TYPES ARE SCHEDULED IN THE A-000 SERIES. RE: G-100 SERIES "CODE COMPLIANCE PLANS/LIFE SAFETY PLANS FOR GRAPHIC EXTENT OF FIRE RATED PARTITIONS. REFER TO PARTITION TYPE SCHEDULE FOR LOCATION OF SOUND ATTENUATION BLANKETS
6. LAYOUT PARTITIONS FOR ARCHITECT TO REVIEW FOR DESIGN INTENT. DO NOT PROCEED WITH INSTALLATION OF RUNNERS OR STUDS WITHOUT THIS REVIEW.
7. LOCATE DOORS 4" FROM FACE OF INTERSECTING PARTITION TO INSIDE EDGE OF DOOR FRAME, UNO.
8. THE CONTRACTOR SHALL PATCH AND REPAIR ALL EXISTING AND NEW WALL SURFACES AS REQUIRED PRIOR TO APPLYING FINISHES.
9. THE CONTRACTOR SHALL SURVEY FLOOR ELEVATIONS TO DETERMINE SCOPE OF FLOOR LEVELING AND REMEDIAL REPAIR WORK. THE CONTRACTOR SHALL INCLUDE IN HIS SCOPE OF WORK ALL COSTS THAT ARE ASSOCIATED WITH FLOOR LEVELING AND ASSOCIATED REMEDIAL REPAIR WORK. FLOOR SHALL BE LEVEL WITHIN 1/4" IN 10'-0" RADIUS.
10. PROVIDE MINIMUM 1'-0" CLEAR FLOOR SPACE AT THE PUSH SIDE OF EVERY DOOR WITH A CLOSER. PROVIDE MINIMUM 1'-6" CLEAR AT THE PULL SIDE OF EVERY DOOR, UNLESS SPECIFICALLY DIMENSIONED, NOTED OR SHOWN OTHERWISE.
11. OPENINGS IN GYPSUM BOARD FOR ELECTRICAL AND COMMUNICATION RECEPTACLE, PIPING, DUCTWORK, AND OTHER PENETRATIONS SHALL MAINTAIN TIGHT TOLERANCES. EXPOSED EDGES SHALL BE COVERED BY TRIM PLATES OR ESCUTCHEONS.
12. ALL GYPSUM BOARD WALLS TO RECEIVE TILE OR FRP FINISHES SHALL HAVE TILE BACKER BOARD. ALL OTHER WALLS IN TOILET ROOM AND KITCHENS TO BE WATER-RESISTANT GYPSUM BOARD.
13. PARTITIONS NOT DIMENSIONED ARE GENERALLY LOCATED BY ONE OF THE FOLLOWING CRITERIA:
    A. CENTERLINE: CENTER OF PARTITION ALIGNS WITH THE CENTER OF GRIDLINE OR OBJECT CENTERLINE (SUCH AS A COLUMN OR MULLION). CENTER THE OVERALL PARTITION WIDTH RATHER THAN STUD WIDTH ON THE LINE.
    B. ALIGN: LOCATE PARTITION FLUSH WITH FACE OF GYPSUM BOARD, OR OTHER SURFACE INDICATED.
    C. MAINTAIN DIMENSIONS NOTED AS 'MINIMUM', 'CLEAR', OR 'HOLD'.
14. SEE A-002 FOR TYPICAL MOUNTING HEIGHTS OF PLUMBING FIXTURES AND TOILET ACCESSORIES.
15. ALL LAVATORIES AND SINKS SHALL BE MOUNTED A MINIMUM OF 1'-3" FROM THE CENTERLINE OF THE FIXTURE TO THE FINISHED FACE OF THE ADJACENT PARTITION.
16. BLOCKING TO BE PROVIDED AT ALL TOILETS AND SHOWERS/TUBS TO ALLOW FOR FUTURE GRAB BARS.
17. CONTINUOUS BLOCKING TO BE PROVIDED AT ALL WALL CABINET LOCATIONS.
18. ALL STORAGE AND LINEN CLOSETS TO RECEIVE WIRE SHELVING AT 12" INTERVALS FROM 1'-0" TO 6'-0" AFF.
19. ALL LAUNDRY ROOMS TO RECEIVE ADJUSTABLE SHELVING ON STANDARDS.
20. ALL BEDROOM CLOSETS TO RECEIVE HANGING ROD AND SHELF @ 5'-0" AFF. UFAS BEDROOM CLOSETS TO RECEIVE HANGING ROD AND SHELF @ 54" MAX AFF.
21. SLOPE ALL PORCHES AWAY FROM BUILDING @ 1/8":12" MAX. PORCH FINISH TO BE LIGHT BROOM FINISH IN DIRECTION OF SLOPE.
22. ROUTE ALL ROOF PENETRATIONS TO THE AREA INDICATED ON ROOF PLANS.

INTERIOR PARTITION TYPE PLAN SYMBOL



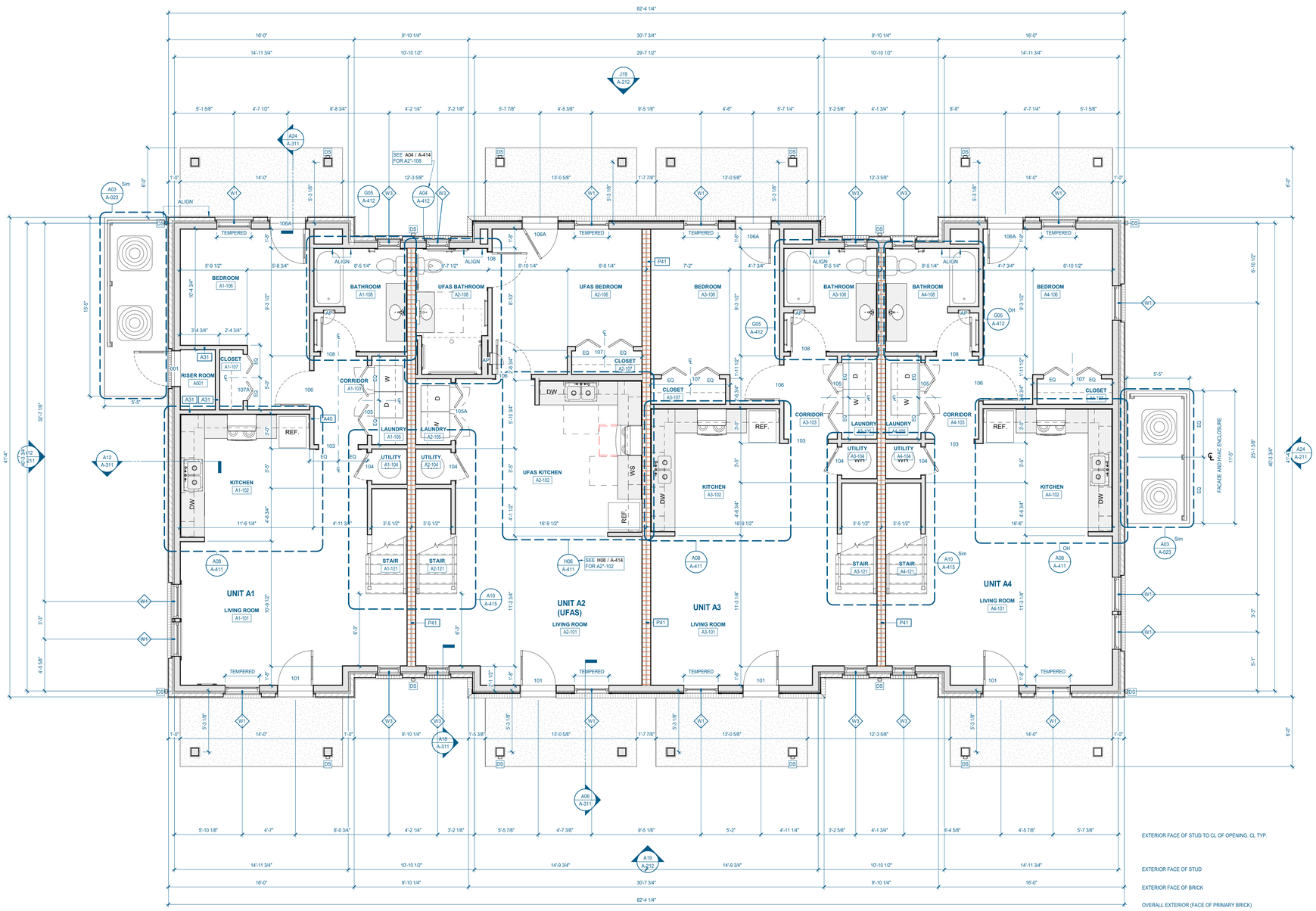
PARTITION TAG LEGEND

FRAMING SIZE CHART (SEE PARTITION CHARTS)

XXX	FRAMING SIZE (MTL)	XXX	FRAMING SIZE (CMU)
0	HAT OR 'Z' FURRING	4	3 5/8" CONCRETE MASONRY UNIT
1	1 5/8" NON LOAD-BEARING MTL STUD	6	5 5/8" CONCRETE MASONRY UNIT
2	2 1/2" NON LOAD-BEARING MTL STUD	8	7 5/8" CONCRETE MASONRY UNIT
3	3 5/8" NON LOAD-BEARING MTL STUD	10	9 5/8" CONCRETE MASONRY UNIT
4	4" NON LOAD-BEARING MTL STUD	12	11 5/8" CONCRETE MASONRY UNIT
6	6" NON LOAD-BEARING MTL STUD		
8	8" NON LOAD-BEARING MTL STUD		

FIRE RATING / PARTITION HEIGHT DESIGNATION

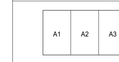
XXX	HEIGHT/RATING DESCRIPTION
A	NON-RATED - EXTEND STUDS TO UNDERSIDE OF STRUCTURE ABOVE. EXTEND GYPSUM OR BACKER BD & ACOUSTICAL INSULATION TO 6" ABOVE CEILING.
B	NON RATED PARITION - TO UNDERSIDE OF CEILING
0	NON RATED - TO UNDERSIDE OF STRUCTURE ABOVE
1	(1) HOUR FIRE-RATED
2	(2) HOUR FIRE-RATED
S	SMOKE-RESISTANT PARTITION
P	PARTIAL HEIGHT PARTITION (SEE PLAN & ELEVATIONS FOR PARTITION HEIGHT)



A24 BUILDING A - LEVEL 1 FLOOR PLAN
1/4" = 1'-0"

UNITS GROSS SQ FOOTAGE

BUILDING A	
FIRST FLOOR:	
UNIT A1:	790.09 SF
UNIT A2:	800.03 SF
UNIT A3:	800.03 SF
UNIT A4:	808.45 SF
SECOND FLOOR:	
UNIT A1:	832.61 SF
UNIT A2:	836.03 SF
UNIT A3:	836.03 SF
UNIT A4:	832.61 SF



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MHM

McCarty Holsaple McCarty, Inc.
550 W. Main St., Suite 300
Knoxville, TN 37902
t 865.544.2000
www.mhminc.com

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KNOXVILLE TN, 37929
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FACILITY SYSTEMS CONSULTANTS
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KNOXVILLE TN, 37902
865.246.0164

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KNOXVILLE TN, 37902
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PIC	M. BUTLER
PM	M. BUTLER
PA	G. TAYLOR
Drawn By:	Author
Checked By:	J. BRADLEY

Sheet Description:

A-111

BUILDING A FLOOR PLAN - LEVEL 01

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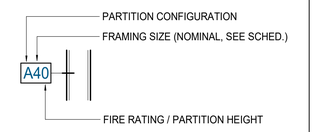
FINISH LEGEND - TYPICAL ALL BUILDINGS

ITEM	TAG	MATERIAL	LOCATION	SPECIFICATION
FLOOR FINISH				
	LVT-1	LUXURY VINYL TILE	GENERAL	MOHAWK GROUP, HOT & HEAVY COLLECTION, PATTERN: #C0009 SECOYA, COLOR: 123 BENMORE, SIZE: 9"x59", THICKNESS: 5MM, WEAR LAYER: 20 MIL
BASE/TRIM FINISH				
	B-1	WOOD BASE	GENERAL	1X4 PAINTED WOOD BASE, SEMI-GLOSS FINISH, PT-3
	T-1	PRIVATE STAIR TREADS & LANDINGS	MULTI-STORY UNITS	1" WOOD STAIR TREADS AND LANDINGS, FULL BULLNOSE PROFILE, STAINED, TBD BASED ON SAMPLES OF: 1) MINWAX EBONY 2718. 2) MINWAX TRUE BLACK 274. 3) CONTRACTOR'S MIX OF 1 & 2.
WALL FINISH				
	PT-1	PAINT	CEILING	BENJAMIN MOORE, COLOR: OC-149 CEILING DECORATOR'S WHITE, FLAT FINISH
	PT-2	PAINT	GENERAL	BENJAMIN MOORE, COLOR: OC-22 CALM, EGGSHELL FINISH; SATIN FINISH IN THE BATHROOM, LAUNDRY & KITCHEN
	PT-3	PAINT	TRIM, PRIVATE STAIR RISERS, PRIVATE STAIR TRIM	BENJAMIN MOORE, COLOR: OC-149 DECORATOR'S WHITE, SEMI-GLOSS FINISH
	WT-1	CERAMIC WALL TILE	KITCHEN BACKSPLASH	BOSS FLOORING, ARRAY SUBWAY TILE, COLOR: U081 WHITE ICE, FINISH: BRIGHT, SIZE: 3"x6", INSTALL: STACKED, GROUT: GT-1. CONTACT: SEAN VAUGHN (404)992.3434
MILLWORK FINISH				
	QT-1	QUARTZ	KITCHEN COUNTER	WILSONART QUARTZ SELECT, MARFA Q6019
	SS-1	SOLID SURFACE	BATHROOM COUNTER	WILSONART SOLID SURFACE, COLOR: DESIGNER WHITE D354SL(1)
	MW-1	UPPER CABINETRY	KITCHEN	ADVANTA CABINETS, RUTLEDGE SLAB, PAINT, COLOR: ALPINE WHITE
	MW-2	LOWER CABINETRY & ISLAND CABINETRY	KITCHEN	ADVANTA CABINETS, RUTLEDGE SLAB, PAINT, COLOR: ONYX
	MW-3	VANITY	BATHROOM	ADVANTA CABINETS, RUTLEDGE SLAB, PAINT, COLOR: RIVER ROCK
CEILING FINISH				
	GYP	GYPSUM WALL BOARD		PAINTED PT-1
MISCELLANEOUS				
	GT-1	GROUT		TO BE USED W/ MT-1: TEC 949 SILVERADO

ENLARGED PLAN AND INTERIOR ELEVATION GENERAL NOTES

1. REFER TO SHEET A-001 FOR ADDITIONAL GENERAL NOTES.
2. ALL NEW PARTITIONS SHALL BE TYPE **A40**, UNO; REFER TO PARTITION SCHEDULE FOR MORE INFORMATION.
3. TYPICAL DIMENSIONS SHOWN ON THE FLOOR PLANS FOR NEW CONSTRUCTION ARE TO THE FACE OF STUD, UNLESS OTHERWISE NOTED.
4. PLUMBING LOCATIONS ARE DIMENSIONED FROM FINISHED FACE OF DRYWALL TO PLUMBING CENTERLINE.
5. PARTITION TYPES ARE SCHEDULED IN THE A-000 SERIES. RE: G-100 SERIES "CODE COMPLIANCE PLANS/LIFE SAFETY PLANS FOR GRAPHIC EXTENT OF FIRE RATED PARTITIONS. REFER TO PARTITION TYPE SCHEDULE FOR LOCATION OF SOUND ATTENUATION BLANKETS
6. LAYOUT PARTITIONS FOR ARCHITECT TO REVIEW FOR DESIGN INTENT. DO NOT PROCEED WITH INSTALLATION OF RUNNERS OR STUDS WITHOUT THIS REVIEW.
7. LOCATE DOORS 4" FROM FACE OF INTERSECTING PARTITION TO INSIDE EDGE OF DOOR FRAME, UNO.
8. THE CONTRACTOR SHALL PATCH AND REPAIR ALL EXISTING AND NEW WALL SURFACES AS REQUIRED PRIOR TO APPLYING FINISHES.
9. THE CONTRACTOR SHALL SURVEY FLOOR ELEVATIONS TO DETERMINE SCOPE OF FLOOR LEVELING AND REMEDIAL REPAIR WORK. THE CONTRACTOR SHALL INCLUDE IN HIS SCOPE OF WORK ALL COSTS THAT ARE ASSOCIATED WITH FLOOR LEVELING AND ASSOCIATED REMEDIAL REPAIR WORK. FLOOR SHALL BE LEVEL WITHIN 1/4" IN 10'-0" RADIUS.
10. PROVIDE MINIMUM 1'-0" CLEAR FLOOR SPACE AT THE PUSH SIDE OF EVERY DOOR WITH A CLOSER. PROVIDE MINIMUM 1'-6" CLEAR AT THE PULL SIDE OF EVERY DOOR, UNLESS SPECIFICALLY DIMENSIONED, NOTED OR SHOWN OTHERWISE.
11. OPENINGS IN GYPSUM BOARD FOR ELECTRICAL AND COMMUNICATION RECEPTACLE, PIPING, DUCTWORK, AND OTHER PENETRATIONS SHALL MAINTAIN TIGHT TOLERANCES. EXPOSED EDGES SHALL BE COVERED BY TRIM PLATES OR ESCUTCHEONS.
12. ALL GYPSUM BOARD WALLS TO RECEIVE TILE OR FRP FINISHES SHALL HAVE TILE BACKER BOARD. ALL OTHER WALLS IN TOILET ROOM AND KITCHENS TO BE WATER-RESISTANT GYPSUM BOARD.
13. PARTITIONS NOT DIMENSIONED ARE GENERALLY LOCATED BY ONE OF THE FOLLOWING CRITERIA:
    A. CENTERLINE: CENTER OF PARTITION ALIGNS WITH THE CENTER OF GRIDLINE OR OBJECT CENTERLINE (SUCH AS A COLUMN OR MULLION). CENTER THE OVERALL PARTITION WIDTH RATHER THAN STUD WIDTH ON THE LINE.
    B. ALIGN: LOCATE PARTITION FLUSH WITH FACE OF GYPSUM BOARD, OR OTHER SURFACE INDICATED.
    C. MAINTAIN DIMENSIONS NOTED AS 'MINIMUM', 'CLEAR', OR 'HOLD'.
14. SEE A-002 FOR TYPICAL MOUNTING HEIGHTS OF PLUMBING FIXTURES AND TOILET ACCESSORIES.
15. ALL LAVATORIES AND SINKS SHALL BE MOUNTED A MINIMUM OF 1'-3" FROM THE CENTERLINE OF THE FIXTURE TO THE FINISHED FACE OF THE ADJACENT PARTITION.
16. BLOCKING TO BE PROVIDED AT ALL TOILETS AND SHOWERS/TUBS TO ALLOW FOR FUTURE GRAB BARS.
17. CONTINUOUS BLOCKING TO BE PROVIDED AT ALL WALL CABINET LOCATIONS.
18. ALL STORAGE AND LINEN CLOSETS TO RECEIVE WIRE SHELVING AT 12" INTERVALS FROM 1'-0" TO 6'-0" AFF.
19. ALL LAUNDRY ROOMS TO RECEIVE ADJUSTABLE SHELVING ON STANDARDS.
20. ALL BEDROOM CLOSETS TO RECEIVE HANGING ROD AND SHELF @ 5'-0" AFF. UFAS BEDROOM CLOSETS TO RECEIVE HANGING ROD AND SHELF @ 54" MAX AFF.
21. SLOPE ALL PORCHES AWAY FROM BUILDING @ 1/8":12" MAX. PORCH FINISH TO BE LIGHT BROOM FINISH IN DIRECTION OF SLOPE.
22. ROUTE ALL ROOF PENETRATIONS TO THE AREA INDICATED ON ROOF PLANS.

INTERIOR PARTITION TYPE PLAN SYMBOL



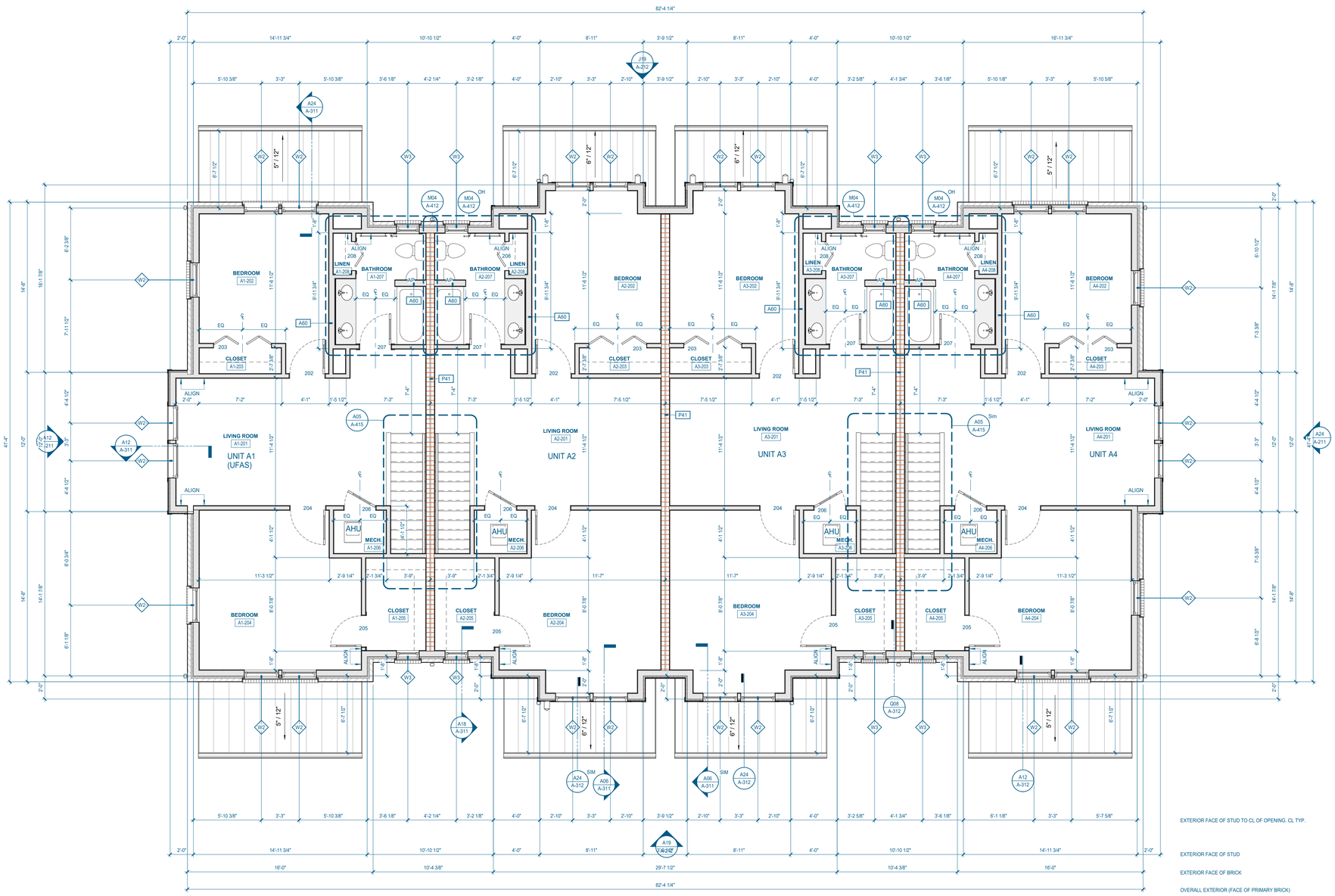
PARTITION TAG LEGEND

FRAMING SIZE CHART (SEE PARTITION CHARTS)

XXX	FRAMING SIZE (MTL)	XXX	FRAMING SIZE (CMU)
0	HAT OR 'Z' FURRING	4	3 5/8" CONCRETE MASONRY UNIT
1	1 5/8" NON LOAD-BEARING MTL STUD	6	5 5/8" CONCRETE MASONRY UNIT
2	2 1/2" NON LOAD-BEARING MTL STUD	8	7 5/8" CONCRETE MASONRY UNIT
3	3 5/8" NON LOAD-BEARING MTL STUD	10	9 5/8" CONCRETE MASONRY UNIT
4	4" NON LOAD-BEARING MTL STUD	12	11 5/8" CONCRETE MASONRY UNIT
6	6" NON LOAD-BEARING MTL STUD		
8	8" NON LOAD-BEARING MTL STUD		

FIRE RATING / PARTITION HEIGHT DESIGNATION

XXX	HEIGHT/RATING DESCRIPTION
A	NON-RATED - EXTEND STUDS TO UNDERSIDE OF STRUCTURE ABOVE. EXTEND GYPSUM OR BACKER BD & ACOUSTICAL INSULATION TO 6" ABOVE CEILING.
B	NON RATED PARITION - TO UNDERSIDE OF CEILING
0	NON RATED - TO UNDERSIDE OF STRUCTURE ABOVE
1	(1) HOUR FIRE-RATED
2	(2) HOUR FIRE-RATED
S	SMOKE-RESISTANT PARTITION
P	PARTIAL HEIGHT PARTITION (SEE PLAN & ELEVATIONS FOR PARTITION HEIGHT)



A24 BUILDING A - LEVEL 2 FLOOR PLAN
1/4" = 1'-0"

UNITS GROSS SQ FOOTAGE

BUILDING A	
FIRST FLOOR:	
UNIT A1:	790.09 SF
UNIT A2:	800.03 SF
UNIT A3:	800.03 SF
UNIT A4:	808.45 SF
SECOND FLOOR:	
UNIT A1:	832.61 SF
UNIT A2:	836.03 SF
UNIT A3:	836.03 SF
UNIT A4:	832.61 SF

*DIAGRAM NTS. FOR REFERENCE ONLY

MHM

McCarty Holsaple McCarty, Inc.
550 W. Main St., Suite 300
Knoxville, TN 37902
t 865.544.2000
www.mhminc.com

Consultants:

CIVIL ENGINEER:

HUDDLESTON-STEELE ENGINEERING INC.
2112 N.W. BROAD ST.
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RAGAN SMITH
100 E. VINE ST., STE 200
MURFREESBORO, TN 37130
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800 S. GAY ST., STE 1750
KNOXVILLE TN, 37929
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MECHANICAL & PLUMBING ENGINEER:

FACILITY SYSTEMS CONSULTANTS
713 S. CENTRAL ST., STE 101
KNOXVILLE TN, 37902
865.246.0164

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KNOXVILLE TN, 37902
865.246.0164

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Seal:

Consultant:

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PIC	M. BUTLER
PM	M. BUTLER
PA	G. TAYLOR
Drawn By:	Author
Checked By:	J. BRADLEY

Sheet Description:

A-112

BUILDING A FLOOR PLAN - LEVEL 02

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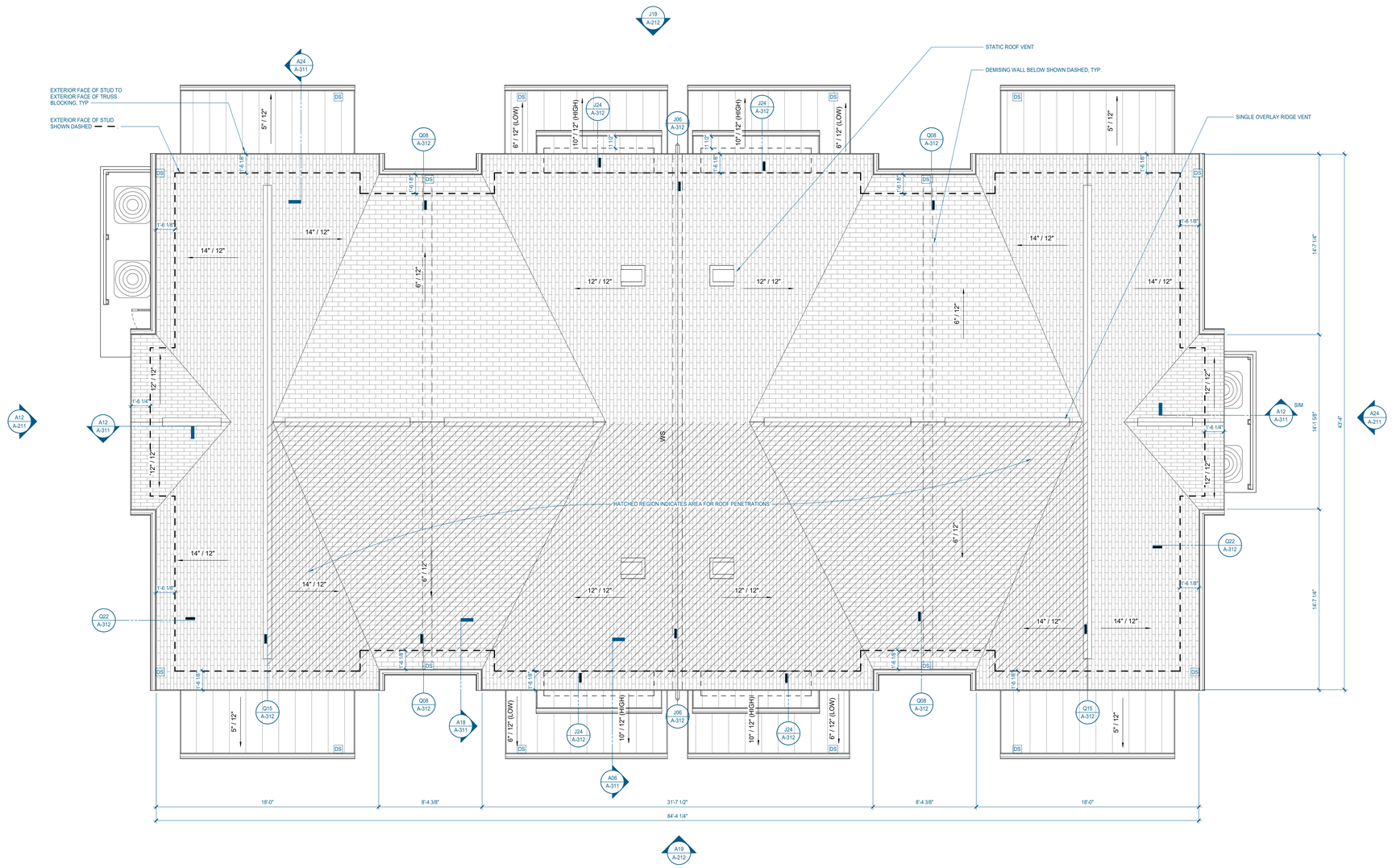

ROOF PLAN GENERAL NOTES

1. REFER TO SHEET A-001 FOR ADDITIONAL GENERAL NOTES.
2. ALL MAIN ROOFS TO BE "ROOF 1" UNO.
   A. ALL PORCH ROOFS TO BE ROOF 2
3. SEE DETAILS FOR ADDITIONAL INFORMATION.
4. SEE STRUCTURAL DRAWINGS FOR ROOF FRAMING.
5. DASHED LINES INDICATE RATED WALL BELOW.
6. PROVIDE RIDGE VENT AS INDICATED.
   A. RIDGE VENT TO STOP 1'-0" FROM EXTERIOR WALLS
   B. RIDGE VENT TO STOP 1'-0" FROM RATED WALLS
7. ALL ROOF PENETRATIONS TO BE IN HATCHED AREA OF ROOF PLAN.
   A. ALL PIPES PENETRATING ROOF TO BE PAINTED TO MATCH ROOF SHINGLE COLOR.
   B. SEE MECHANICAL AND PLUMBING PLANS FOR ROOF PENETRATION/VTR LOCATIONS.
8. SLOPE ALL GUTTERS AT 1/16":12" UNO
   A. ALL GUTTERS TO BE 6" RECTANGULAR PROFILE
   B. ALL DOWNSPOUTS TO BE 3"x4"
   C. TIE DOWNSPOUTS INTO STORM SYSTEM. SEE CIVIL.

A24 BUILDING A - ROOF PLAN
1/4" = 1'-0"

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McCarty Holsaple McCarty, Inc.
550 W. Main St., Suite 300
Knoxville, TN 37902
t.865.544.2000
www.mhminc.com

Consultants:

CIVIL ENGINEER:

HUDDLESTON-STEELE ENGINEERING INC.
2112 N.W. BROAD ST.
MURFREESBORO, TN 37129
615.893.4084

LANDSCAPE ARCHITECT:

RAGAN SMITH
100 E. VINE ST., STE 200
MURFREESBORO, TN 37130
615.546.6050

STRUCTURAL ENGINEER:

HAINES STRUCTURAL GROUP
800 S. GAY ST., STE 1750
KNOXVILLE TN, 37929
865.329.9920

MECHANICAL & PLUMBING ENGINEER:

FACILITY SYSTEMS CONSULTANTS
713 S. CENTRAL ST., STE 101
KNOXVILLE TN, 37902
865.246.0164

ELECTRICAL ENGINEER:

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21026

MHA Parkside Housing

520 EAST CASTLE STREET,
MURFREESBORO, TN 37130

Seal:

Consultant:

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Drawn By:	Author
Checked By:	J. BRADLEY

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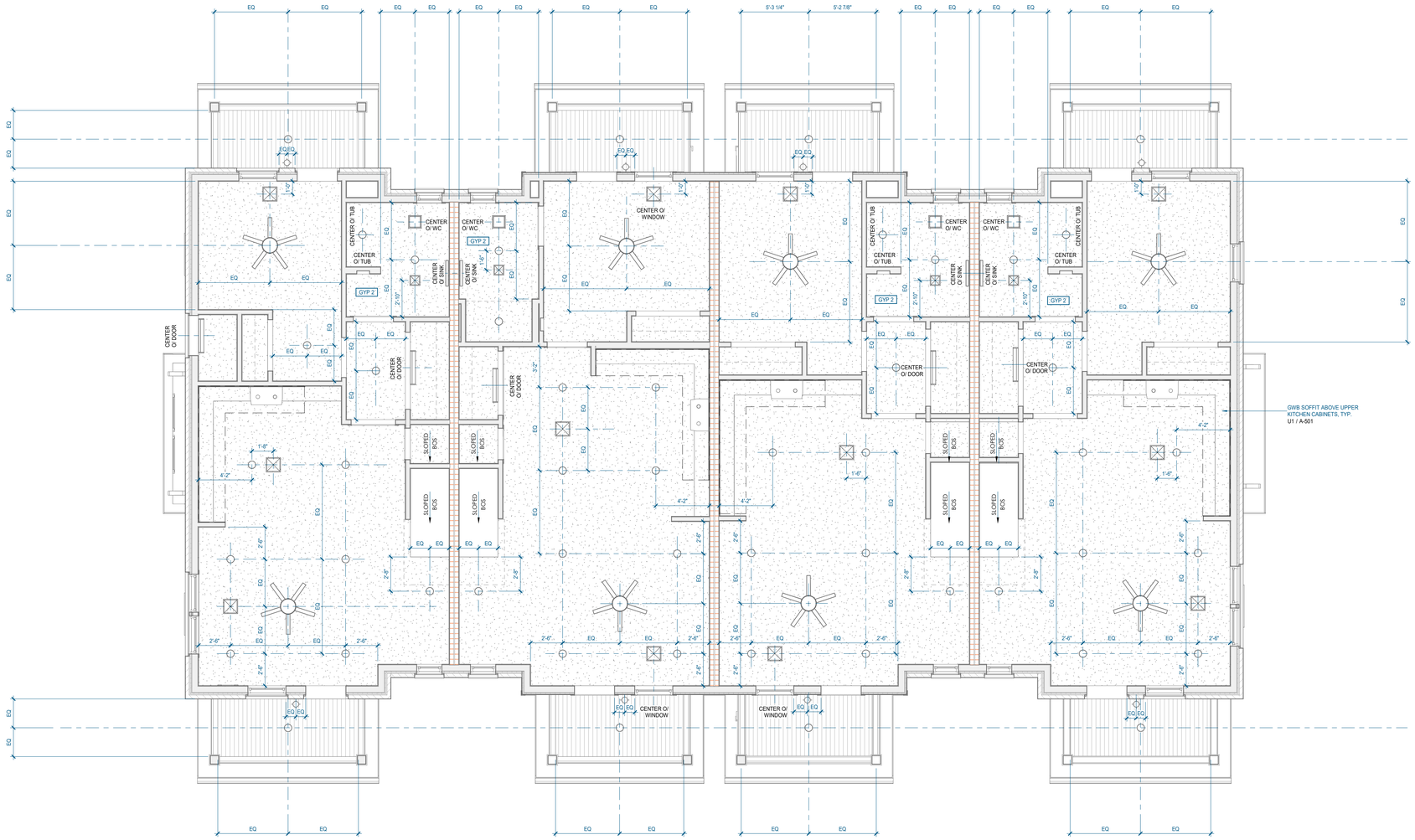
A-114

BUILDING A - ROOF PLAN



BUILDING A - LEVEL 01 REFLECTED CEILING PLAN

A24 — 1/4" = 1'-0"

RCP GENERAL NOTES

1. ALL CEILING HEIGHTS TO BE ATTACHED TO BOTTOM OF STRUCTURE, UNO.
2. ALL CEILINGS TO BE GYP 1 UNO.
3. DRYWALL CEILINGS AND SOFFITS TO BE PAINTED PER FINISH LEGEND UNO.
4. SEE ELECTRICAL DRAWINGS FOR THE LOCATIONS OF CEILING MOUNTED SMOKE DETECTORS, SPEAKERS, NURSE CALL DOME LIGHTS, EXIT SIGNAGE, FIRE ALARM DEVICES, WALL MOUNTED EXIT LIGHTS, ETC.
5. LIGHTING FIXTURES ARE DIMENSIONED TO CENTER OF FIXTURE, UNLESS OTHERWISE NOTED.
6. SINGLE FIXTURES TO BE CENTERED IN ROOM, UNO.
7. IF LOCATION DIMENSIONS ARE NOT INDICATED, FINAL POSITION OF ANY/ALL EXPOSED ELEMENTS AND DEVICES SHALL BE COORDINATED WITH ARCHITECT.
8. LOCATE ACCESS PANELS AS INDICATED ON THE DRAWINGS. THE CONTRACTOR SHALL VERIFY THAT ACCESS PANELS OF TYPE SPECIFIED ARE INSTALLED IN NON-GRID TYPE CEILINGS WHERE SERVICE OR ADJUSTMENT TO MECHANICAL, PLUMBING, OR ELECTRICAL ITEMS MAY BE REQUIRED. LOCATE IN ACCORDANCE WITH APPLICABLE CODES. FIELD VERIFY LOCATION OF ACCESS PANELS AND FINAL LOCATION SHALL BE COORDINATED WITH ARCHITECT PRIOR TO INSTALL.
9. VERIFY THAT CEILING AND ABOVE-CEILING ELEMENTS FIT IN PLENUM AS INDICATED BEFORE PROCEEDING WITH FRAMING CEILING. NOTIFY ARCHITECT IF RELOCATION IS REQUIRED OR IF SHIFTING OF GRID OR OTHER ELEMENT ARE NECESSARY.
10. PROVIDE UNDERCABINET LIGHTING CONTINUOUS ACROSS ENTIRE LENGTH OF ELEMENT AND WIRED THROUGH THE SIDE OF THE FIXTURES, UNLESS OTHERWISE NOTED.
11. REFER TO MOUNTING DIAGRAMS AND ELEVATIONS FOR LOCATION OF SWITCHES, DIMMERS, THERMOSTATS AND OUTLETS.
12. ALL DEVICES LOCATED IN GYPSUM BOARD TO BE WHITE. DEVICE COVERPLATE TO MATCH.
13. GANG SWITCHES UNDER A SINGLE COVERPLATE. SWITCHES THAT CANNOT BE GANGED TOGETHER SHALL BE LOCATED AS CLOSE TOGETHER AS POSSIBLE AND MOUNTED AT THE SAME HEIGHT.
14. THE CONTRACTOR SHALL COMPARE THIS REFLECTED CEILING PLAN WITH ELECTRICAL LIGHTING PLANS, MECHANICAL SUPPLY, RETURN, AND EXHAUST PLANS. THE CONTRACTOR SHALL REPORT ANY OMISSIONS OR INCONSISTENCIES TO THE ARCHITECT.
15. COORDINATE GYPSUM BOARD FURR DOWN HEIGHTS FOR UPPER AND FULL HEIGHT CABINETS WITH INTERIOR ELEVATIONS.
16. UNLESS NOTED OTHERWISE, BUILDING IS TO BE "FULLY SPRINKLERED" PER NFPA 13.
17. 18" MINIMUM VERTICAL CLEARANCE SHALL BE MAINTAINED BETWEEN THE BOTTOM OF EXTENDED SPRINKLER HEADS AND THE TOP OF ANY FILES, SHELVING, LOCKERS, ETC.
18. FOR FURTHER DETAIL & DIMENSIONS SEE FLOOR PLANS AND CEILING DETAILS.
19. SPRINKLERS NOT SHOWN, REFERENCE FIRE PROTECTION DRAWINGS.
20. CONTRACTOR TO ENSURE ALL CEILING PENETRATIONS CREATE AN AIR TIGHT SEAL.

RCP LEGEND

CEILING TYPES

GYP — GYPSUM BOARD CEILING

GYP 1 TYPICAL
GYP 2 MOISTURE RESISTANT

CEILING TYPE TAG

XXX-X — CEILING MATERIAL

MECHANICAL SYMBOLS

SUPPLY AIR CEILING DIFFUSER
REFER TO MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION

BATHROOM FAN

LIGHT FIXTURE SYMBOLS

WALL SCONCE

SURFACE MOUNTED LIGHT

EXIT LIGHTS

NEW CEILING MOUNTED CAMERA

S — NEW EMERGENCY STROBE/SPEAKER

OS — NEW OCCUPANCY SENSOR

CEILING FAN W/ LIGHT

KITCHEN PENDANT LIGHT

ARCHITECTURAL SYMBOLS

ATTIC ACCESS DOOR. NOMINAL 2'x4' WITH GASKETING.

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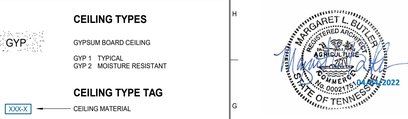

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A-115

BUILDING A - LEVEL 01 REFLECTED CEILING PLAN

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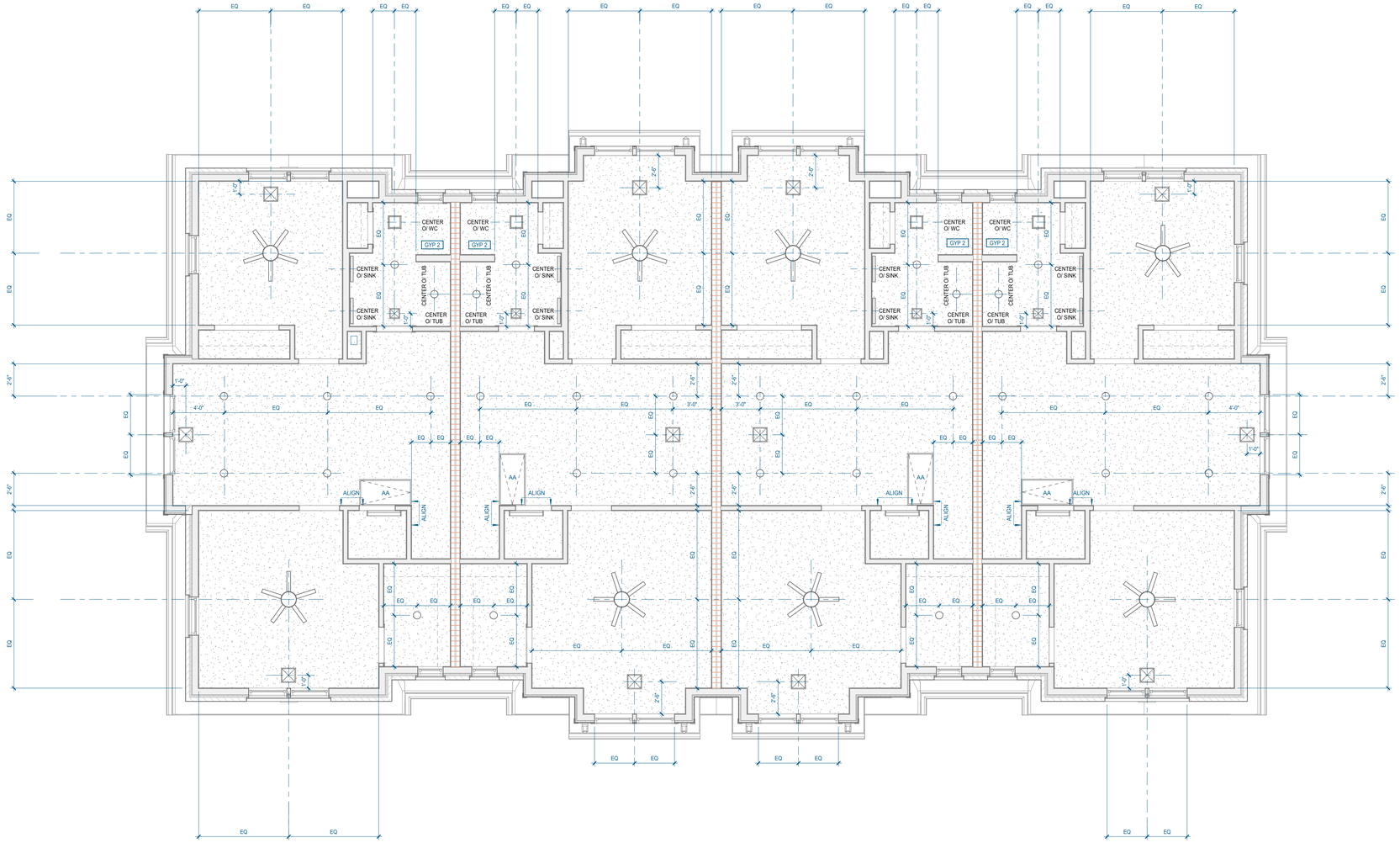

A24 BUILDING A - LEVEL 02 REFLECTED BUILDING PLAN
1/4" = 1'-0"

RCP GENERAL NOTES

1. ALL CEILING HEIGHTS TO BE ATTACHED TO BOTTOM OF STRUCTURE, UNO.
2. ALL CEILINGS TO BE GYP 1 UNO.
3. DRYWALL CEILINGS AND SOFFITS TO BE PAINTED PER FINISH LEGEND UNO.
4. SEE ELECTRICAL DRAWINGS FOR THE LOCATIONS OF CEILING MOUNTED SMOKE DETECTORS, SPEAKERS, NURSE CALL DOME LIGHTS, EXIT SIGNAGE, FIRE ALARM DEVICES, WALL MOUNTED EXIT LIGHTS, ETC.
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RCP LEGEND

CEILING TYPES

GYP — GYPSUM BOARD CEILING

GYP 1 TYPICAL
GYP 2 MOISTURE RESISTANT

CEILING TYPE TAG

XXX-X — CEILING MATERIAL

MECHANICAL SYMBOLS

SUPPLY AIR CEILING DIFFUSER
REFER TO MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION

BATHROOM FAN

LIGHT FIXTURE SYMBOLS

WALL SCONCE

SURFACE MOUNTED LIGHT

EXIT LIGHTS

NEW CEILING MOUNTED CAMERA

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CEILING FAN W/ LIGHT

KITCHEN PENDANT LIGHT

ARCHITECTURAL SYMBOLS

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Drawn By:	Author
Checked By:	J. BRADLEY

Sheet Description:

A-116

BUILDING A - LEVEL 02 REFLECTED CEILING PLAN

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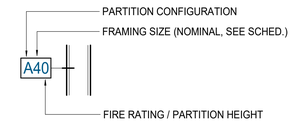
FINISH LEGEND - TYPICAL ALL BUILDINGS

ITEM	TAG	MATERIAL	LOCATION	SPECIFICATION
FLOOR FINISH				
	LVT-1	LUXURY VINYL TILE	GENERAL	MOHAWK GROUP, HOT & HEAVY COLLECTION, PATTERN: #C0009 SECOYA, COLOR: 123 BENMORE, SIZE: 9"x59", THICKNESS: 5MM, WEAR LAYER: 20 MIL
BASE/TRIM FINISH				
	B-1	WOOD BASE	GENERAL	1X4 PAINTED WOOD BASE, SEMI-GLOSS FINISH, PT-3
	T-1	PRIVATE STAIR TREADS & LANDINGS	MULTI-STORY UNITS	1" WOOD STAIR TREADS AND LANDINGS, FULL BULLNOSE PROFILE, STAINED. TBD BASED ON SAMPLES OF: 1) MINWAX EBONY 2718. 2) MINWAX TRUE BLACK 274. 3) CONTRACTOR'S MIX OF 1 & 2.
WALL FINISH				
	PT-1	PAINT	CEILING	BENJAMIN MOORE, COLOR: OC-149 CEILING DECORATOR'S WHITE, FLAT FINISH
	PT-2	PAINT	GENERAL	BENJAMIN MOORE, COLOR: 0C-22 CALM, EGGSHELL FINISH; SATIN FINISH IN THE BATHROOM, LAUNDRY & KITCHEN
	PT-3	PAINT	TRIM, PRIVATE STAIR RISERS, PRIVATE STAIR TRIM	BENJAMIN MOORE, COLOR: OC-149 DECORATOR'S WHITE, SEMI-GLOSS FINISH
	WT-1	CERAMIC WALL TILE	KITCHEN BACKSPLASH	BOSS FLOORING, ARRAY SUBWAY TILE, COLOR: U081 WHITE ICE, FINISH: BRIGHT, SIZE: 3"x6", INSTALL: STACKED, GROUT: GT-1. CONTACT: SEAN VAUGHN (404)992.3434
MILLWORK FINISH				
	QT-1	QUARTZ	KITCHEN COUNTER	WILSONART QUARTZ SELECT, MARFA Q6019
	SS-1	SOLID SURFACE	BATHROOM COUNTER	WILSONART SOLID SURFACE, COLOR: DESIGNER WHITE D354SL(1)
	MW-1	UPPER CABINETRY	KITCHEN	ADVANTA CABINETS, RUTLEDGE SLAB, PAINT, COLOR: ALPINE WHITE
	MW-2	LOWER CABINETRY & ISLAND CABINETRY	KITCHEN	ADVANTA CABINETS, RUTLEDGE SLAB, PAINT, COLOR: ONYX
	MW-3	VANITY	BATHROOM	ADVANTA CABINETS, RUTLEDGE SLAB, PAINT, COLOR: RIVER ROCK
CEILING FINISH				
	GYP	GYPSUM WALL BOARD		PAINTED PT-1
MISCELLANEOUS				
	GT-1	GROUT		TO BE USED W/ WT-1: TEC 949 SILVERADO

ENLARGED PLAN AND INTERIOR ELEVATION GENERAL NOTES

1. REFER TO SHEET A-001 FOR ADDITIONAL GENERAL NOTES.
2. ALL NEW PARTITIONS SHALL BE TYPE **A40**, UNO; REFER TO PARTITION SCHEDULE FOR MORE INFORMATION.
3. TYPICAL DIMENSIONS SHOWN ON THE FLOOR PLANS FOR NEW CONSTRUCTION ARE TO THE FACE OF STUD, UNLESS OTHERWISE NOTED.
4. PLUMBING LOCATIONS ARE DIMENSIONED FROM FINISHED FACE OF DRYWALL TO PLUMBING CENTERLINE.
5. PARTITION TYPES ARE SCHEDULED IN THE A-000 SERIES. RE: G-100 SERIES "CODE COMPLIANCE PLANS/LIFE SAFETY PLANS FOR GRAPHIC EXTENT OF FIRE RATED PARTITIONS. REFER TO PARTITION TYPE SCHEDULE FOR LOCATION OF SOUND ATTENUATION BLANKETS
6. LAYOUT PARTITIONS FOR ARCHITECT TO REVIEW FOR DESIGN INTENT. DO NOT PROCEED WITH INSTALLATION OF RUNNERS OR STUDS WITHOUT THIS REVIEW.
7. LOCATE DOORS 4" FROM FACE OF INTERSECTING PARTITION TO INSIDE EDGE OF DOOR FRAME, UNO.
8. THE CONTRACTOR SHALL PATCH AND REPAIR ALL EXISTING AND NEW WALL SURFACES AS REQUIRED PRIOR TO APPLYING FINISHES.
9. THE CONTRACTOR SHALL SURVEY FLOOR ELEVATIONS TO DETERMINE SCOPE OF FLOOR LEVELING AND REMEDIAL REPAIR WORK. THE CONTRACTOR SHALL INCLUDE IN HIS SCOPE OF WORK ALL COSTS THAT ARE ASSOCIATED WITH FLOOR LEVELING AND ASSOCIATED REMEDIAL REPAIR WORK. FLOOR SHALL BE LEVEL WITHIN 1/4" IN 10'-0" RADIUS.
10. PROVIDE MINIMUM 1'-0" CLEAR FLOOR SPACE AT THE PUSH SIDE OF EVERY DOOR WITH A CLOSER. PROVIDE MINIMUM 1'-6" CLEAR AT THE PULL SIDE OF EVERY DOOR, UNLESS SPECIFICALLY DIMENSIONED, NOTED OR SHOWN OTHERWISE.
11. OPENINGS IN GYPSUM BOARD FOR ELECTRICAL AND COMMUNICATION RECEPTACLE, PIPING, DUCTWORK, AND OTHER PENETRATIONS SHALL MAINTAIN TIGHT TOLERANCES. EXPOSED EDGES SHALL BE COVERED BY TRIM PLATES OR ESCUTCHEONS.
12. ALL GYPSUM BOARD WALLS TO RECEIVE TILE OR FRP FINISHES SHALL HAVE TILE BACKER BOARD. ALL OTHER WALLS IN TOILET ROOM AND KITCHENS TO BE WATER-RESISTANT GYPSUM BOARD.
13. PARTITIONS NOT DIMENSIONED ARE GENERALLY LOCATED BY ONE OF THE FOLLOWING CRITERIA:
    A. CENTERLINE: CENTER OF PARTITION ALIGNS WITH THE CENTER OF GRIDLINE OR OBJECT CENTERLINE (SUCH AS A COLUMN OR MULLION). CENTER THE OVERALL PARTITION WIDTH RATHER THAN STUD WIDTH ON THE LINE.
    B. ALIGN: LOCATE PARTITION FLUSH WITH FACE OF GYPSUM BOARD, OR OTHER SURFACE INDICATED.
    C. MAINTAIN DIMENSIONS NOTED AS 'MINIMUM', 'CLEAR', OR 'HOLD'.
14. SEE A-002 FOR TYPICAL MOUNTING HEIGHTS OF PLUMBING FIXTURES AND TOILET ACCESSORIES.
15. ALL LAVATORIES AND SINKS SHALL BE MOUNTED A MINIMUM OF 1'-3" FROM THE CENTERLINE OF THE FIXTURE TO THE FINISHED FACE OF THE ADJACENT PARTITION.
16. BLOCKING TO BE PROVIDED AT ALL TOILETS AND SHOWERS/TUBS TO ALLOW FOR FUTURE GRAB BARS.
17. CONTINUOUS BLOCKING TO BE PROVIDED AT ALL WALL CABINET LOCATIONS.
18. ALL STORAGE AND LINEN CLOSETS TO RECEIVE WIRE SHELVING AT 12" INTERVALS FROM 1'-0" TO 6'-0" AFF.
19. ALL LAUNDRY ROOMS TO RECEIVE ADJUSTABLE SHELVING ON STANDARDS.
20. ALL BEDROOM CLOSETS TO RECEIVE HANGING ROD AND SHELF @ 5'-0" AFF. UFAS BEDROOM CLOSETS TO RECEIVE HANGING ROD AND SHELF @ 54" MAX AFF.
21. SLOPE ALL PORCHES AWAY FROM BUILDING @ 1/8":12" MAX. PORCH FINISH TO BE LIGHT BROOM FINISH IN DIRECTION OF SLOPE.
22. ROUTE ALL ROOF PENETRATIONS TO THE AREA INDICATED ON ROOF PLANS.

INTERIOR PARTITION TYPE PLAN SYMBOL



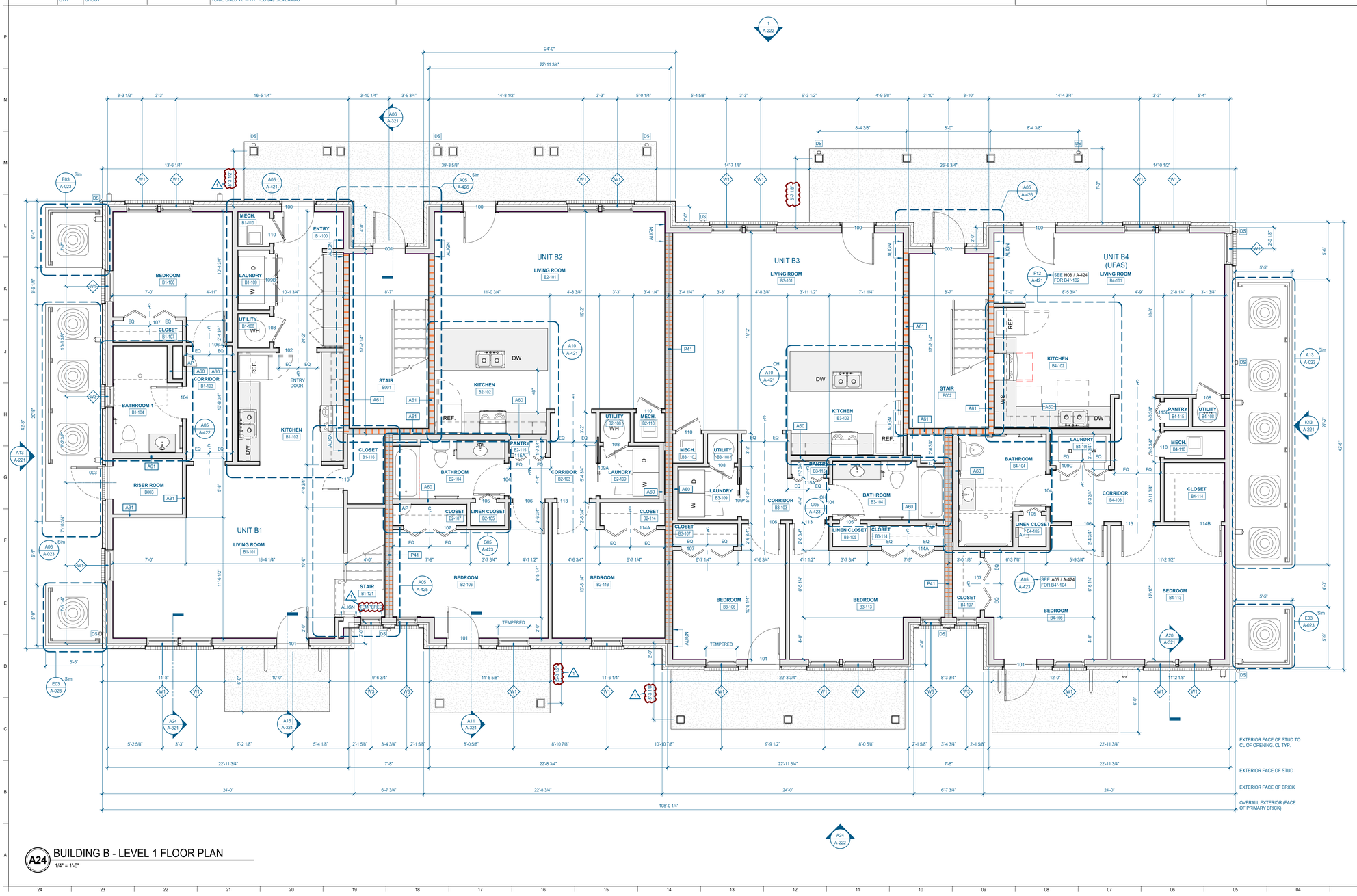
PARTITION TAG LEGEND

FRAMING SIZE CHART (SEE PARTITION CHARTS)

XXX	FRAMING SIZE (MTL)	XXX	FRAMING SIZE (CMU)
0	HAT OR 'Z' FURRING	4	3 5/8" CONCRETE MASONRY UNIT
1	1 5/8" NON LOAD-BEARING MTL STUD	6	5 5/8" CONCRETE MASONRY UNIT
2	2 1/2" NON LOAD-BEARING MTL STUD	8	7 5/8" CONCRETE MASONRY UNIT
3	3 5/8" NON LOAD-BEARING MTL STUD	10	9 5/8" CONCRETE MASONRY UNIT
4	4" NON LOAD-BEARING MTL STUD	12	11 5/8" CONCRETE MASONRY UNIT
6	6" NON LOAD-BEARING MTL STUD		
8	8" NON LOAD-BEARING MTL STUD		

FIRE RATING / PARTITION HEIGHT DESIGNATION

XXX	HEIGHT/RATING DESCRIPTION
A	NON-RATED - EXTEND STUDS TO UNDERSIDE OF STRUCTURE ABOVE. EXTEND GYPSUM OR BACKER BD & ACOUSTICAL INSULATION TO 6" ABOVE CEILING.
B	NON RATED PARITION - TO UNDERSIDE OF CEILING
0	NON RATED - TO UNDERSIDE OF STRUCTURE ABOVE
1	(1) HOUR FIRE-RATED
2	(2) HOUR FIRE-RATED
S	SMOKE-RESISTANT PARTITION
P	PARTIAL HEIGHT PARTITION (SEE PLAN & ELEVATIONS FOR PARTITION HEIGHT)



UNITS GROSS SQ FT

BUILDING B	
FIRST FLOOR:	
UNIT B1:	995.17 SF
UNIT B2:	1026.37 SF
UNIT B3:	1026.37 SF
UNIT B4:	1032.90 SF
SECOND FLOOR:	
UNIT B1:	1,092.20 SF
UNIT B5:	1026.37 SF
UNIT B6:	1026.37 SF
UNIT B7:	1,092.20 SF
THIRD FLOOR:	
UNIT B8:	1,092.20 SF
UNIT B9:	1026.37 SF
UNIT B10:	1026.37 SF
UNIT B11:	1,092.20 SF

B8	B9	B10	B11
B1	B5	B6	B7
B1	B2	B3	B4

*DIAGRAM NTS. FOR REFERENCE ONLY

A24 BUILDING B - LEVEL 1 FLOOR PLAN
1/4" = 1'-0"

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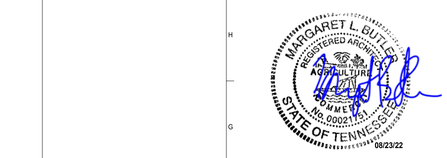

Consultant:

#	ISSUE	DATE
1	REVISION 01 - CITY COMMENTS RESPONSE	08.23.2022

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A-121

BUILDING B FLOOR PLAN - LEVEL 01

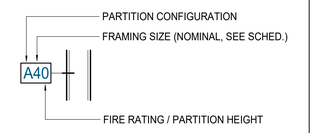
FINISH LEGEND - TYPICAL ALL BUILDINGS

ITEM	TAG	MATERIAL	LOCATION	SPECIFICATION
FLOOR FINISH				
	LVT-1	LUXURY VINYL TILE	GENERAL	MOHAWK GROUP, HOT & HEAVY COLLECTION, PATTERN: #C0009 SECOYA, COLOR: 123 BENMORE, SIZE: 9"x59", THICKNESS: 5MM, WEAR LAYER: 20 MIL
BASE/TRIM FINISH				
	B-1	WOOD BASE	GENERAL	1X4 PAINTED WOOD BASE, SEMI-GLOSS FINISH, PT-3
	T-1	PRIVATE STAIR TREADS & LANDINGS	MULTI-STORY UNITS	1" WOOD STAIR TREADS AND LANDINGS, FULL BULLNOSE PROFILE, STAINED, TBD BASED ON SAMPLES OF: 1) MINWAX EBONY 2718. 2) MINWAX TRUE BLACK 274. 3) CONTRACTOR'S MIX OF 1 & 2.
WALL FINISH				
	PT-1	PAINT	CEILING	BENJAMIN MOORE, COLOR: OC-149 CEILING DECORATOR'S WHITE, FLAT FINISH
	PT-2	PAINT	GENERAL	BENJAMIN MOORE, COLOR: OC-22 CALM, EGGSHELL FINISH; SATIN FINISH IN THE BATHROOM, LAUNDRY & KITCHEN
	PT-3	PAINT	TRIM, PRIVATE STAIR RISERS, PRIVATE STAIR TRIM	BENJAMIN MOORE, COLOR: OC-149 DECORATOR'S WHITE, SEMI-GLOSS FINISH
	WT-1	CERAMIC WALL TILE	KITCHEN BACKSPLASH	BOSS FLOORING, ARRAY SUBWAY TILE, COLOR: U081 WHITE ICE, FINISH: BRIGHT, SIZE: 3"x6", INSTALL: STACKED, GROUT: GT-1. CONTACT: SEAN VAUGHN (404)992.3434
MILLWORK FINISH				
	QT-1	QUARTZ	KITCHEN COUNTER	WILSONART QUARTZ SELECT, MARFA Q6019
	SS-1	SOLID SURFACE	BATHROOM COUNTER	WILSONART SOLID SURFACE, COLOR: DESIGNER WHITE D354SL(1)
	MW-1	UPPER CABINETRY	KITCHEN	ADVANTA CABINETS, RUTLEDGE SLAB, PAINT, COLOR: ALPINE WHITE
	MW-2	LOWER CABINETRY & ISLAND CABINETRY	KITCHEN	ADVANTA CABINETS, RUTLEDGE SLAB, PAINT, COLOR: ONYX
	MW-3	VANITY	BATHROOM	ADVANTA CABINETS, RUTLEDGE SLAB, PAINT, COLOR: RIVER ROCK
CEILING FINISH				
	GYP	GYPSUM WALL BOARD		PAINTED PT-1
MISCELLANEOUS				
	GT-1	GROUT		TO BE USED W/ MT-1: TEC 949 SILVERADO

ENLARGED PLAN AND INTERIOR ELEVATION GENERAL NOTES

1. REFER TO SHEET A-001 FOR ADDITIONAL GENERAL NOTES.
2. ALL NEW PARTITIONS SHALL BE TYPE **A40**, UNO; REFER TO PARTITION SCHEDULE FOR MORE INFORMATION.
3. TYPICAL DIMENSIONS SHOWN ON THE FLOOR PLANS FOR NEW CONSTRUCTION ARE TO THE FACE OF STUD, UNLESS OTHERWISE NOTED.
4. PLUMBING LOCATIONS ARE DIMENSIONED FROM FINISHED FACE OF DRYWALL TO PLUMBING CENTERLINE.
5. PARTITION TYPES ARE SCHEDULED IN THE A-000 SERIES. RE: G-100 SERIES "CODE COMPLIANCE PLANS/LIFE SAFETY PLANS FOR GRAPHIC EXTENT OF FIRE RATED PARTITIONS. REFER TO PARTITION TYPE SCHEDULE FOR LOCATION OF SOUND ATTENUATION BLANKETS
6. LAYOUT PARTITIONS FOR ARCHITECT TO REVIEW FOR DESIGN INTENT. DO NOT PROCEED WITH INSTALLATION OF RUNNERS OR STUDS WITHOUT THIS REVIEW.
7. LOCATE DOORS 4" FROM FACE OF INTERSECTING PARTITION TO INSIDE EDGE OF DOOR FRAME, UNO.
8. THE CONTRACTOR SHALL PATCH AND REPAIR ALL EXISTING AND NEW WALL SURFACES AS REQUIRED PRIOR TO APPLYING FINISHES.
9. THE CONTRACTOR SHALL SURVEY FLOOR ELEVATIONS TO DETERMINE SCOPE OF FLOOR LEVELING AND REMEDIAL REPAIR WORK. THE CONTRACTOR SHALL INCLUDE IN HIS SCOPE OF WORK ALL COSTS THAT ARE ASSOCIATED WITH FLOOR LEVELING AND ASSOCIATED REMEDIAL REPAIR WORK. FLOOR SHALL BE LEVEL WITHIN 1/4" IN 10'-0" RADIUS.
10. PROVIDE MINIMUM 1'-0" CLEAR FLOOR SPACE AT THE PUSH SIDE OF EVERY DOOR WITH A CLOSER. PROVIDE MINIMUM 1'-6" CLEAR AT THE PULL SIDE OF EVERY DOOR, UNLESS SPECIFICALLY DIMENSIONED, NOTED OR SHOWN OTHERWISE.
11. OPENINGS IN GYPSUM BOARD FOR ELECTRICAL AND COMMUNICATION RECEPTACLE, PIPING, DUCTWORK, AND OTHER PENETRATIONS SHALL MAINTAIN TIGHT TOLERANCES. EXPOSED EDGES SHALL BE COVERED BY TRIM PLATES OR ESCUTCHEONS.
12. ALL GYPSUM BOARD WALLS TO RECEIVE TILE OR FRP FINISHES SHALL HAVE TILE BACKER BOARD. ALL OTHER WALLS IN TOILET ROOM AND KITCHENS TO BE WATER-RESISTANT GYPSUM BOARD.
13. PARTITIONS NOT DIMENSIONED ARE GENERALLY LOCATED BY ONE OF THE FOLLOWING CRITERIA:
    A. CENTERLINE: CENTER OF PARTITION ALIGNS WITH THE CENTER OF GRIDLINE OR OBJECT CENTERLINE (SUCH AS A COLUMN OR MULLION). CENTER THE OVERALL PARTITION WIDTH RATHER THAN STUD WIDTH ON THE LINE.
    B. ALIGN: LOCATE PARTITION FLUSH WITH FACE OF GYPSUM BOARD, OR OTHER SURFACE INDICATED.
    C. MAINTAIN DIMENSIONS NOTED AS 'MINIMUM', 'CLEAR', OR 'HOLD'.
14. SEE A-002 FOR TYPICAL MOUNTING HEIGHTS OF PLUMBING FIXTURES AND TOILET ACCESSORIES.
15. ALL LAVATORIES AND SINKS SHALL BE MOUNTED A MINIMUM OF 1'-3" FROM THE CENTERLINE OF THE FIXTURE TO THE FINISHED FACE OF THE ADJACENT PARTITION.
16. BLOCKING TO BE PROVIDED AT ALL TOILETS AND SHOWERS/TUBS TO ALLOW FOR FUTURE GRAB BARS.
17. CONTINUOUS BLOCKING TO BE PROVIDED AT ALL WALL CABINET LOCATIONS.
18. ALL STORAGE AND LINEN CLOSETS TO RECEIVE WIRE SHELVING AT 12" INTERVALS FROM 1'-0" TO 6'-0" AFF.
19. ALL LAUNDRY ROOMS TO RECEIVE ADJUSTABLE SHELVING ON STANDARDS.
20. ALL BEDROOM CLOSETS TO RECEIVE HANGING ROD AND SHELF @ 5'-0" AFF. UFAS BEDROOM CLOSETS TO RECEIVE HANGING ROD AND SHELF @ 54" MAX AFF.
21. SLOPE ALL PORCHES AWAY FROM BUILDING @ 1/8":12" MAX. PORCH FINISH TO BE LIGHT BROOM FINISH IN DIRECTION OF SLOPE.
22. ROUTE ALL ROOF PENETRATIONS TO THE AREA INDICATED ON ROOF PLANS.

INTERIOR PARTITION TYPE PLAN SYMBOL



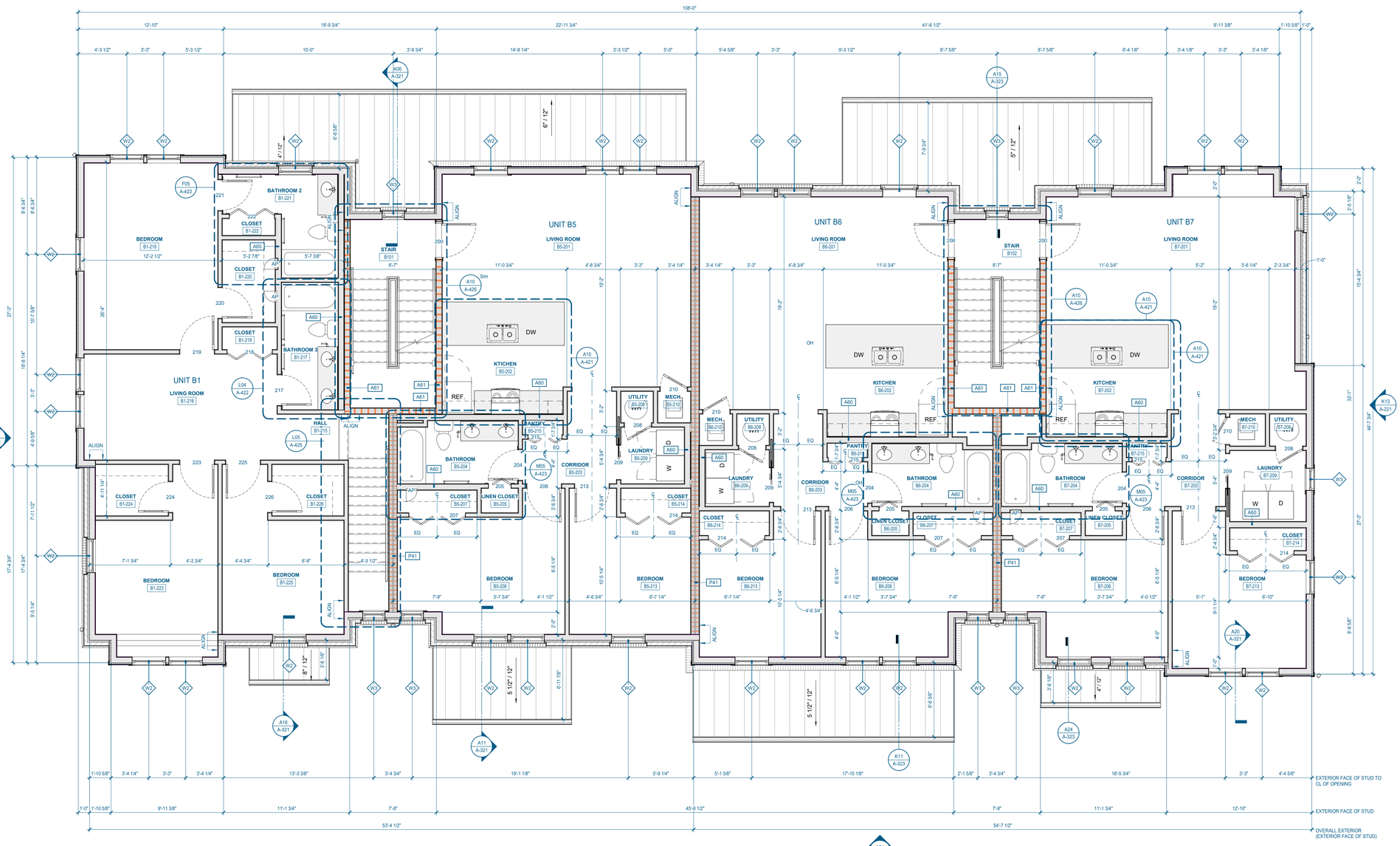
PARTITION TAG LEGEND

FRAMING SIZE CHART (SEE PARTITION CHARTS)

XXX	FRAMING SIZE (MTL)	XXX	FRAMING SIZE (CMU)
0	HAT OR 'Z' FURRING	4	3 5/8" CONCRETE MASONRY UNIT
1	1 5/8" NON LOAD-BEARING MTL STUD	6	5 5/8" CONCRETE MASONRY UNIT
2	2 1/2" NON LOAD-BEARING MTL STUD	8	7 5/8" CONCRETE MASONRY UNIT
3	3 5/8" NON LOAD-BEARING MTL STUD	10	9 5/8" CONCRETE MASONRY UNIT
4	4" NON LOAD-BEARING MTL STUD	12	11 5/8" CONCRETE MASONRY UNIT
6	6" NON LOAD-BEARING MTL STUD		
8	8" NON LOAD-BEARING MTL STUD		

FIRE RATING / PARTITION HEIGHT DESIGNATION

XXX	HEIGHT/RATING DESCRIPTION
A	NON-RATED - EXTEND STUDS TO UNDERSIDE OF STRUCTURE ABOVE. EXTEND GYPSUM OR BACKER BD & ACOUSTICAL INSULATION TO 6" ABOVE CEILING.
B	NON RATED PARITION - TO UNDERSIDE OF CEILING
0	NON RATED - TO UNDERSIDE OF STRUCTURE ABOVE
1	(1) HOUR FIRE-RATED
2	(2) HOUR FIRE-RATED
S	SMOKE-RESISTANT PARTITION
P	PARTIAL HEIGHT PARTITION (SEE PLAN & ELEVATIONS FOR PARTITION HEIGHT)



A24 BUILDING B - LEVEL 2 FLOOR PLAN
1/4" = 1'-0"

UNITS GROSS SQ FT

BUILDING B	
FIRST FLOOR:	
UNIT B1:	995.17 SF
UNIT B2:	1026.37 SF
UNIT B3:	1026.37 SF
UNIT B4:	1032.90 SF
SECOND FLOOR:	
UNIT B1:	1,092.20 SF
UNIT B5:	1026.37 SF
UNIT B6:	1026.37 SF
UNIT B7:	1,092.20 SF
THIRD FLOOR:	
UNIT B8:	1,092.20 SF
UNIT B9:	1026.37 SF
UNIT B10:	1026.37 SF
UNIT B11:	1,092.20 SF

B8	B9	B10	B11
B1	B5	B6	B7
B1	B2	B3	B4

*DIAGRAM NTS. FOR REFERENCE ONLY

MHM

McCarty Holsaple McCarty, Inc.
550 W. Main St., Suite 300
Knoxville, TN 37902
t 865.544.2000
www.mhminc.com

Consultants:

CIVIL ENGINEER:

HUDDLESTON-STEELE ENGINEERING INC.
2112 N.W. BROAD ST.
MURFREESBORO, TN 37129
615.893.4084

LANDSCAPE ARCHITECT:

RAGAN SMITH
100 E. VINE ST., STE 200
MURFREESBORO, TN 37130
615.546.6050

STRUCTURAL ENGINEER:

HAINES STRUCTURAL GROUP
800 S. GAY ST., STE 1750
KNOXVILLE TN, 37929
865.329.9920

MECHANICAL & PLUMBING ENGINEER:

FACILITY SYSTEMS CONSULTANTS
713 S. CENTRAL ST., STE 101
KNOXVILLE TN, 37902
865.246.0164

ELECTRICAL ENGINEER:

FACILITY SYSTEMS CONSULTANTS
713 S. CENTRAL ST., STE 101
KNOXVILLE TN, 37902
865.246.0164

Project Information:

21026

MHA Parkside Housing

520 EAST CASTLE STREET,
MURFREESBORO, TN 37130

Seal:

Consultant:

#	ISSUE	DATE

Issue Date:	04/04/2022
PIC	M. BUTLER
PM	M. BUTLER
PA	G. TAYLOR
Drawn By:	Author
Checked By:	J. BRADLEY

Sheet Description:

A-122

BUILDING B FLOOR PLAN - LEVEL 02

11/15/2023 2:52:04 PM

FINISH LEGEND - TYPICAL ALL BUILDINGS

ITEM	TAG	MATERIAL	LOCATION	SPECIFICATION
FLOOR FINISH				
	LVT-1	LUXURY VINYL TILE	GENERAL	MOHAWK GROUP, HOT & HEAVY COLLECTION, PATTERN: #C0009 SECOYA, COLOR: 123 BENMORE, SIZE: 9"x59", THICKNESS: 5MM, WEAR LAYER: 20 MIL
BASE/TRIM FINISH				
	B-1	WOOD BASE	GENERAL	1X4 PAINTED WOOD BASE, SEMI-GLOSS FINISH, PT-3
	T-1	PRIVATE STAIR TREADS & LANDINGS	MULTI-STORY UNITS	1" WOOD STAIR TREADS AND LANDINGS, FULL BULLNOSE PROFILE, STAINED, TBD BASED ON SAMPLES OF: 1) MINWAX EBONY 27.18. 2) MINWAX TRUE BLACK 274. 3) CONTRACTOR'S MIX OF 1 & 2.
WALL FINISH				
	PT-1	PAINT	CEILING	BENJAMIN MOORE, COLOR: OC-149 CEILING DECORATOR'S WHITE, FLAT FINISH
	PT-2	PAINT	GENERAL	BENJAMIN MOORE, COLOR: OC-22 CALM, EGGSHELL FINISH; SATIN FINISH IN THE BATHROOM, LAUNDRY & KITCHEN
	PT-3	PAINT	TRIM, PRIVATE STAIR RISERS, PRIVATE STAIR TRIM	BENJAMIN MOORE, COLOR: OC-149 DECORATOR'S WHITE, SEMI-GLOSS FINISH
	WT-1	CERAMIC WALL TILE	KITCHEN BACKSPLASH	BOSS FLOORING, ARRAY SUBWAY TILE, COLOR: U081 WHITE ICE, FINISH: BRIGHT, SIZE: 3"x6", INSTALL: STACKED, GROUT: GT-1. CONTACT: SEAN VAUGHN (404)992.3434
MILLWORK FINISH				
	QT-1	QUARTZ	KITCHEN COUNTER	WILSONART QUARTZ SELECT, MARFA Q6019
	SS-1	SOLID SURFACE	BATHROOM COUNTER	WILSONART SOLID SURFACE, COLOR: DESIGNER WHITE D354SL(1)
	MW-1	UPPER CABINETRY	KITCHEN	ADVANTA CABINETS, RUTLEDGE SLAB, PAINT, COLOR: ALPINE WHITE
	MW-2	LOWER CABINETRY & ISLAND CABINETRY	KITCHEN	ADVANTA CABINETS, RUTLEDGE SLAB, PAINT, COLOR: ONYX
	MW-3	VANITY	BATHROOM	ADVANTA CABINETS, RUTLEDGE SLAB, PAINT, COLOR: RIVER ROCK
CEILING FINISH				
	GYP	GYPSUM WALL BOARD		PAINTED PT-1
MISCELLANEOUS				
	GT-1	GROUT		TO BE USED W/ WT-1: TEC 949 SILVERADO

ENLARGED PLAN AND INTERIOR ELEVATION GENERAL NOTES

1. REFER TO SHEET A-001 FOR ADDITIONAL GENERAL NOTES.
2. ALL NEW PARTITIONS SHALL BE TYPE **A40**, UNO; REFER TO PARTITION SCHEDULE FOR MORE INFORMATION.
3. TYPICAL DIMENSIONS SHOWN ON THE FLOOR PLANS FOR NEW CONSTRUCTION ARE TO THE FACE OF STUD, UNLESS OTHERWISE NOTED.
4. PLUMBING LOCATIONS ARE DIMENSIONED FROM FINISHED FACE OF DRYWALL TO PLUMBING CENTERLINE.
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10. PROVIDE MINIMUM 1'-0" CLEAR FLOOR SPACE AT THE PUSH SIDE OF EVERY DOOR WITH A CLOSER. PROVIDE MINIMUM 1'-6" CLEAR AT THE PULL SIDE OF EVERY DOOR, UNLESS SPECIFICALLY DIMENSIONED, NOTED OR SHOWN OTHERWISE.
11. OPENINGS IN GYPSUM BOARD FOR ELECTRICAL AND COMMUNICATION RECEPTACLE, PIPING, DUCTWORK, AND OTHER PENETRATIONS SHALL MAINTAIN TIGHT TOLERANCES. EXPOSED EDGES SHALL BE COVERED BY TRIM PLATES OR ESCUTCHEONS.
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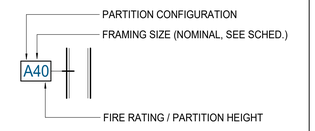
    A. CENTERLINE: CENTER OF PARTITION ALIGNS WITH THE CENTER OF GRIDLINE OR OBJECT CENTERLINE (SUCH AS A COLUMN OR MULLION). CENTER THE OVERALL PARTITION WIDTH RATHER THAN STUD WIDTH ON THE LINE.
    B. ALIGN: LOCATE PARTITION FLUSH WITH FACE OF GYPSUM BOARD, OR OTHER SURFACE INDICATED.
    C. MAINTAIN DIMENSIONS NOTED AS 'MINIMUM', 'CLEAR', OR 'HOLD'.
14. SEE A-002 FOR TYPICAL MOUNTING HEIGHTS OF PLUMBING FIXTURES AND TOILET ACCESSORIES.
15. ALL LAVATORIES AND SINKS SHALL BE MOUNTED A MINIMUM OF 1'-3" FROM THE CENTERLINE OF THE FIXTURE TO THE FINISHED FACE OF THE ADJACENT PARTITION.
16. BLOCKING TO BE PROVIDED AT ALL TOILETS AND SHOWERS/TUBS TO ALLOW FOR FUTURE GRAB BARS.
17. CONTINUOUS BLOCKING TO BE PROVIDED AT ALL WALL CABINET LOCATIONS.
18. ALL STORAGE AND LINEN CLOSETS TO RECEIVE WIRE SHELVING AT 12" INTERVALS FROM 1'-0" TO 6'-0" AFF.
19. ALL LAUNDRY ROOMS TO RECEIVE ADJUSTABLE SHELVING ON STANDARDS.
20. ALL BEDROOM CLOSETS TO RECEIVE HANGING ROD AND SHELF @ 5'-0" AFF. UFAS BEDROOM CLOSETS TO RECEIVE HANGING ROD AND SHELF @ 54" MAX AFF.
21. SLOPE ALL PORCHES AWAY FROM BUILDING @ 1/8":12" MAX. PORCH FINISH TO BE LIGHT BROOM FINISH IN DIRECTION OF SLOPE.
22. ROUTE ALL ROOF PENETRATIONS TO THE AREA INDICATED ON ROOF PLANS.

INTERIOR PARTITION TYPE PLAN SYMBOL



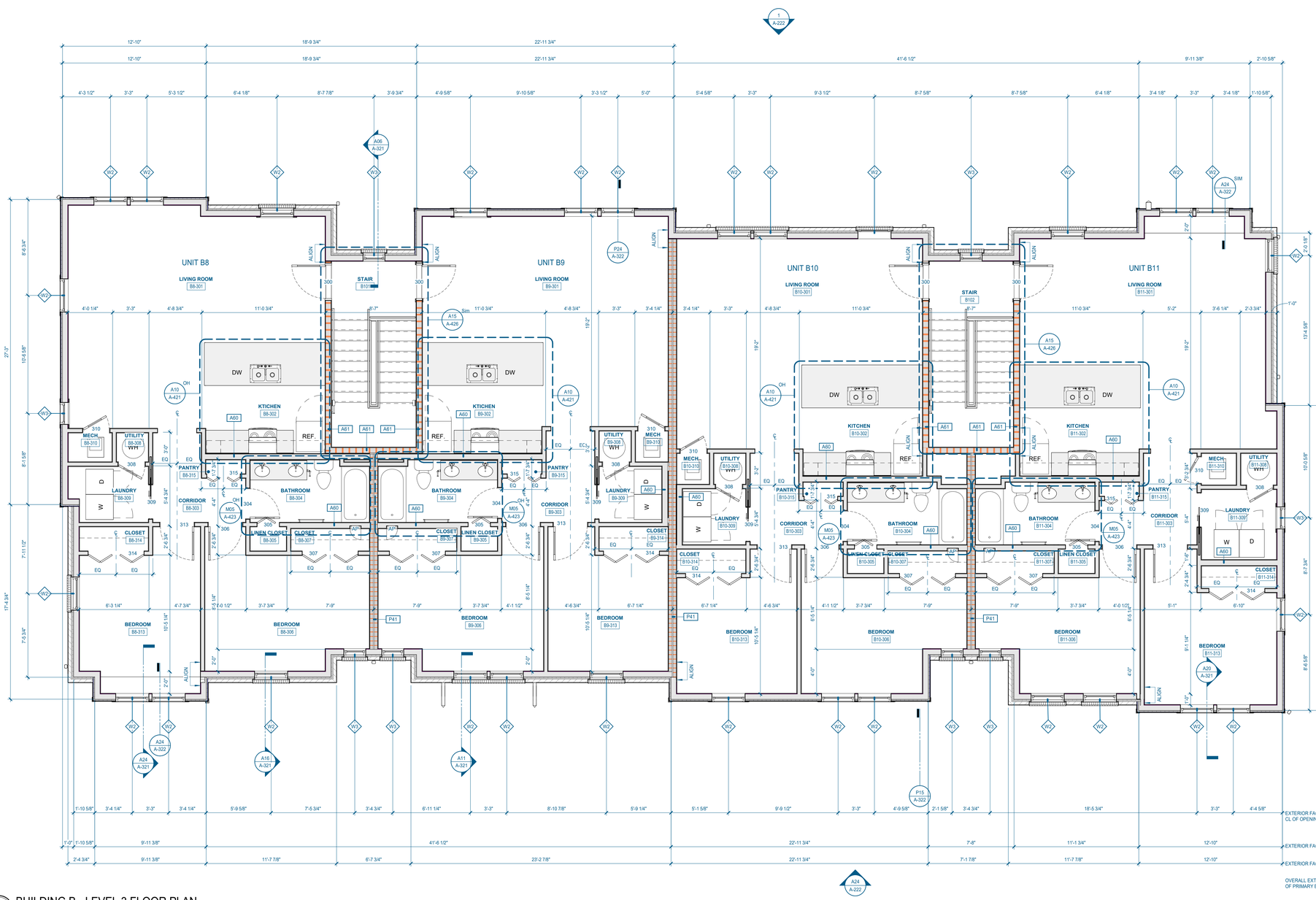
PARTITION TAG LEGEND

FRAMING SIZE CHART (SEE PARTITION CHARTS)

XXX	FRAMING SIZE (**MTL**)	XXX	FRAMING SIZE (**CMU**)
0	HAT OR 'Z' FURRING	**4**	3 5/8" CONCRETE MASONRY UNIT
1	1 5/8" NON LOAD-BEARING MTL STUD	**6**	5 5/8" CONCRETE MASONRY UNIT
2	2 1/2" NON LOAD-BEARING MTL STUD	**8**	7 5/8" CONCRETE MASONRY UNIT
3	3 5/8" NON LOAD-BEARING MTL STUD	**10**	9 5/8" CONCRETE MASONRY UNIT
4	4" NON LOAD-BEARING MTL STUD	**12**	11 5/8" CONCRETE MASONRY UNIT
6	6" NON LOAD-BEARING MTL STUD		
8	8" NON LOAD-BEARING MTL STUD		

FIRE RATING / PARTITION HEIGHT DESIGNATION

XXX	HEIGHT/RATING DESCRIPTION
A	NON-RATED - EXTEND STUDS TO UNDERSIDE OF STRUCTURE ABOVE. EXTEND GYPSUM OR BACKER BD & ACOUSTICAL INSULATION TO 6" ABOVE CEILING.
B	NON RATED PARITION - TO UNDERSIDE OF CEILING
0	NON RATED - TO UNDERSIDE OF STRUCTURE ABOVE
1	(1) HOUR FIRE-RATED
2	(2) HOUR FIRE-RATED
S	SMOKE-RESISTANT PARTITION
P	PARTIAL HEIGHT PARTITION (SEE PLAN & ELEVATIONS FOR PARTITION HEIGHT)



A24 BUILDING B - LEVEL 3 FLOOR PLAN
1/4" = 1'-0"

UNITS GROSS SQ FT

BUILDING B	
FIRST FLOOR:	
UNIT B1:	995.17 SF
UNIT B2:	1026.37 SF
UNIT B3:	1026.37 SF
UNIT B4:	1032.90 SF
SECOND FLOOR:	
UNIT B1:	1,092.20 SF
UNIT B5:	1026.37 SF
UNIT B6:	1026.37 SF
UNIT B7:	1,092.20 SF
THIRD FLOOR:	
UNIT B8:	1,092.20 SF
UNIT B9:	1026.37 SF
UNIT B10:	1026.37 SF
UNIT B11:	1,092.20 SF

B8	B9	B10	B11
B1	B5	B6	B7
B1	B2	B3	B4

*DIAGRAM NTS. FOR REFERENCE ONLY

MHM

McCarty Holsaple McCarty, Inc.
550 W. Main St., Suite 300
Knoxville, TN 37902
t 865.544.2000
www.mhminc.com

Consultants:

CIVIL ENGINEER:

HUDDLESTON-STEELE ENGINEERING INC.
2112 N.W. BROAD ST.
MURFREESBORO, TN 37129
615.893.4084

LANDSCAPE ARCHITECT:

RAGAN SMITH
100 E. VINE ST., STE 200
MURFREESBORO, TN 37130
615.546.6050

STRUCTURAL ENGINEER:

HAINES STRUCTURAL GROUP
800 S. GAY ST., STE 1750
KNOXVILLE TN, 37929
865.329.9920

MECHANICAL & PLUMBING ENGINEER:

FACILITY SYSTEMS CONSULTANTS
713 S. CENTRAL ST., STE 101
KNOXVILLE TN, 37902
865.246.0164

ELECTRICAL ENGINEER:

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PIC	M. BUTLER
PM	M. BUTLER
PA	G. TAYLOR
Drawn By:	Author
Checked By:	J. BRADLEY

Sheet Description:

A-123

BUILDING B FLOOR PLAN - LEVEL 03

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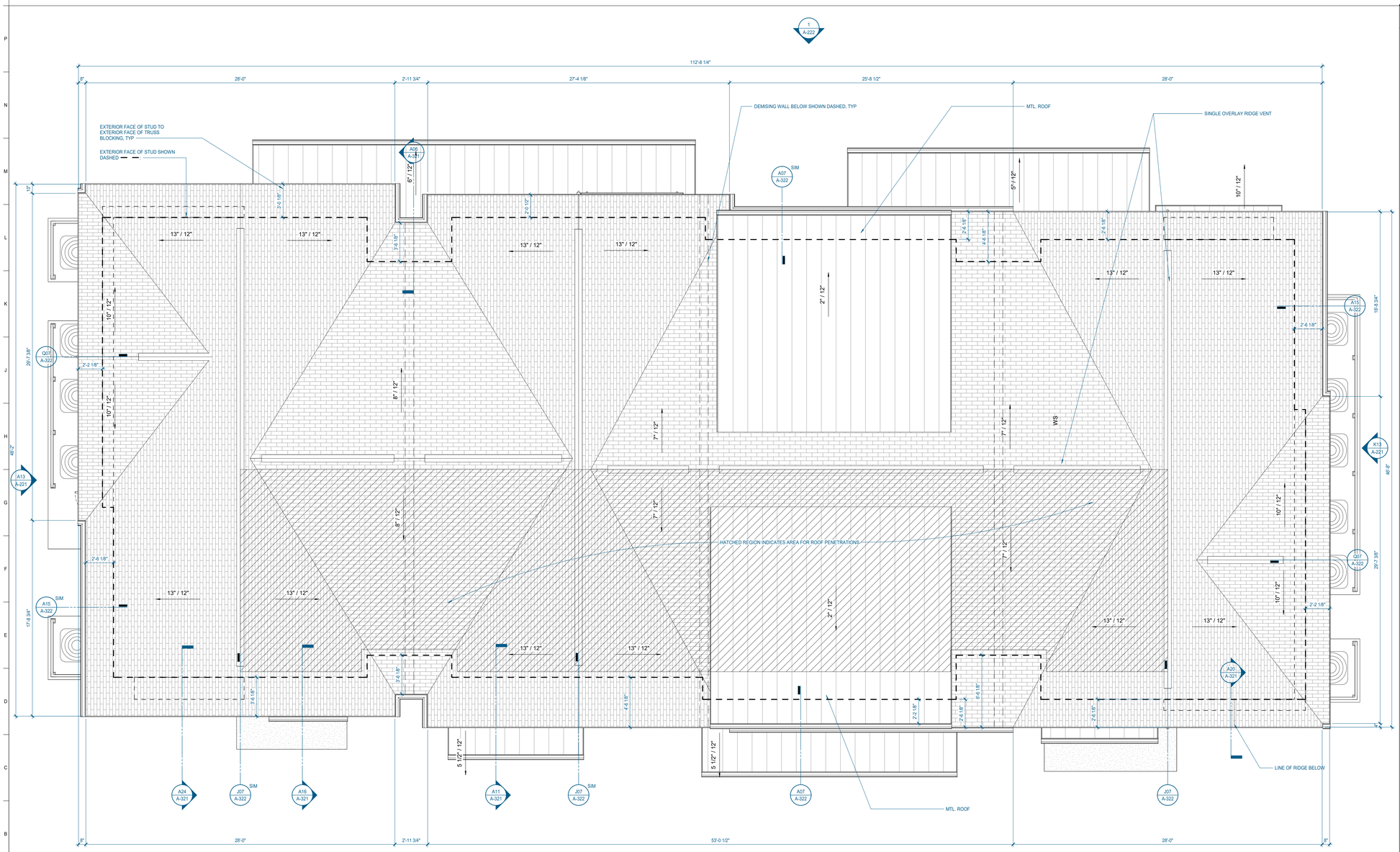

A24 BUILDING B - ROOF PLAN

1/4" = 1'-0"

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ROOF PLAN GENERAL NOTES

1. REFER TO SHEET A-001 FOR ADDITIONAL GENERAL NOTES.
2. ALL MAIN ROOFS TO BE "ROOF 1" UNO.
   A. ALL PORCH ROOFS TO BE ROOF 2
3. SEE DETAILS FOR ADDITIONAL INFORMATION.
4. SEE STRUCTURAL DRAWINGS FOR ROOF FRAMING.
5. DASHED LINES INDICATE RATED WALL BELOW.
6. PROVIDE RIDGE VENT AS INDICATED.
   A. RIDGE VENT TO STOP 1'-0" FROM EXTERIOR WALLS
   B. RIDGE VENT TO STOP 1'-0" FROM RATED WALLS
7. ALL ROOF PENETRATIONS TO BE IN HATCHED AREA OF ROOF PLAN.
   A. ALL PIPES PENETRATING ROOF TO BE PAINTED TO MATCH ROOF SHINGLE COLOR.
   B. SEE MECHANICAL AND PLUMBING PLANS FOR ROOF PENETRATION/VTR LOCATIONS.
8. SLOPE ALL GUTTERS AT 1/16":12" UNO
   A. ALL GUTTERS TO BE 6" RECTANGULAR PROFILE
   B. ALL DOWNSPOUTS TO BE 3"x4"
   C. TIE DOWNSPOUTS INTO STORM SYSTEM. SEE CIVIL.

MHM

McCarty Holsaple McCarty, Inc.
550 W. Main St., Suite 300
Knoxville, TN 37902
t.865.544.2000
www.mhminc.com

Consultants:

CIVIL ENGINEER:

HUDDLESTON-STEELE ENGINEERING INC.
2112 N.W. BROAD ST.
MURFREESBORO, TN 37129
615.893.4084

LANDSCAPE ARCHITECT:

RAGAN SMITH
100 E. VINE ST., STE 200
MURFREESBORO, TN 37130
615.546.6050

STRUCTURAL ENGINEER:

HAINES STRUCTURAL GROUP
800 S. GAY ST., STE 1750
KNOXVILLE TN, 37929
865.329.9920

MECHANICAL & PLUMBING ENGINEER:

FACILITY SYSTEMS CONSULTANTS
713 S. CENTRAL ST., STE 101
KNOXVILLE TN, 37902
865.246.0164

ELECTRICAL ENGINEER:

FACILITY SYSTEMS CONSULTANTS
713 S. CENTRAL ST., STE 101
KNOXVILLE TN, 37902
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PIC	M. BUTLER
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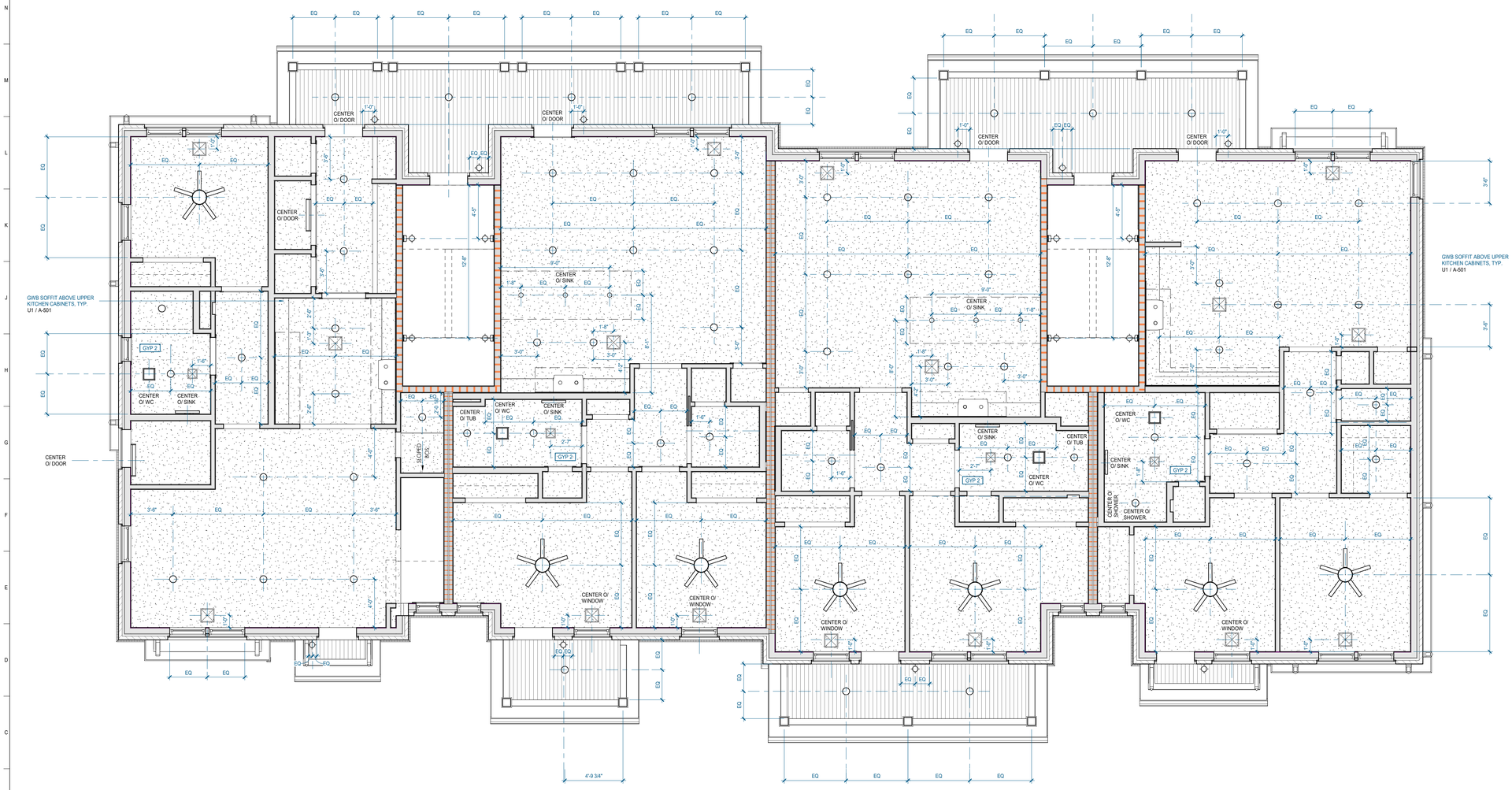
PA	G. TAYLOR
Drawn By:	Author
Checked By:	J. BRADLEY

Sheet Description:

A-124

BUILDING B - ROOF PLAN



A24 BUILDING B - LEVEL 1 RCP
1/4" = 1'-0"

RCP GENERAL NOTES

1. ALL CEILING HEIGHTS TO BE ATTACHED TO BOTTOM OF STRUCTURE, UNO.
2. ALL CEILINGS TO BE GYP 1 UNO.
3. DRYWALL CEILINGS AND SOFFITS TO BE PAINTED PER FINISH LEGEND UNO.
4. SEE ELECTRICAL DRAWINGS FOR THE LOCATIONS OF CEILING MOUNTED SMOKE DETECTORS, SPEAKERS, NURSE CALL DOME LIGHTS, EXIT SIGNAGE, FIRE ALARM DEVICES, WALL MOUNTED EXIT LIGHTS, ETC.
5. LIGHTING FIXTURES ARE DIMENSIONED TO CENTER OF FIXTURE, UNLESS OTHERWISE NOTED.
6. SINGLE FIXTURES TO BE CENTERED IN ROOM, UNO.
7. IF LOCATION DIMENSIONS ARE NOT INDICATED, FINAL POSITION OF ANY/ALL EXPOSED ELEMENTS AND DEVICES SHALL BE COORDINATED WITH ARCHITECT.
8. LOCATE ACCESS PANELS AS INDICATED ON THE DRAWINGS. THE CONTRACTOR SHALL VERIFY THAT ACCESS PANELS OF TYPE SPECIFIED ARE INSTALLED IN NON-GRID TYPE CEILINGS WHERE SERVICE OR ADJUSTMENT TO MECHANICAL, PLUMBING, OR ELECTRICAL ITEMS MAY BE REQUIRED. LOCATE IN ACCORDANCE WITH APPLICABLE CODES. FIELD VERIFY LOCATION OF ACCESS PANELS AND FINAL LOCATION SHALL BE COORDINATED WITH ARCHITECT PRIOR TO INSTALL.
9. VERIFY THAT CEILING AND ABOVE-CEILING ELEMENTS FIT IN PLENUM AS INDICATED BEFORE PROCEEDING WITH FRAMING CEILING. NOTIFY ARCHITECT IF RELOCATION IS REQUIRED OR IF SHIFTING OF GRID OR OTHER ELEMENT ARE NECESSARY.
10. PROVIDE UNDERCABINET LIGHTING CONTINUOUS ACROSS ENTIRE LENGTH OF ELEMENT AND WIRED THROUGH THE SIDE OF THE FIXTURES, UNLESS OTHERWISE NOTED.
11. REFER TO MOUNTING DIAGRAMS AND ELEVATIONS FOR LOCATION OF SWITCHES, DIMMERS, THERMOSTATS AND OUTLETS.
12. ALL DEVICES LOCATED IN GYPSUM BOARD TO BE WHITE. DEVICE COVERPLATE TO MATCH.
13. GANG SWITCHES UNDER A SINGLE COVERPLATE. SWITCHES THAT CANNOT BE GANGED TOGETHER SHALL BE LOCATED AS CLOSE TOGETHER AS POSSIBLE AND MOUNTED AT THE SAME HEIGHT.
14. THE CONTRACTOR SHALL COMPARE THIS REFLECTED CEILING PLAN WITH ELECTRICAL LIGHTING PLANS, MECHANICAL SUPPLY, RETURN, AND EXHAUST PLANS. THE CONTRACTOR SHALL REPORT ANY OMISSIONS OR INCONSISTENCIES TO THE ARCHITECT.
15. COORDINATE GYPSUM BOARD FURR DOWN HEIGHTS FOR UPPER AND FULL HEIGHT CABINETS WITH INTERIOR ELEVATIONS.
16. UNLESS NOTED OTHERWISE, BUILDING IS TO BE "FULLY SPRINKLERED" PER NFPA 13.
17. 18" MINIMUM VERTICAL CLEARANCE SHALL BE MAINTAINED BETWEEN THE BOTTOM OF EXTENDED SPRINKLER HEADS AND THE TOP OF ANY FILES, SHELVING, LOCKERS, ETC.
18. FOR FURTHER DETAIL & DIMENSIONS SEE FLOOR PLANS AND CEILING DETAILS.
19. SPRINKLERS NOT SHOWN, REFERENCE FIRE PROTECTION DRAWINGS.
20. CONTRACTOR TO ENSURE ALL CEILING PENETRATIONS CREATE AN AIR TIGHT SEAL.

RCP LEGEND

CEILING TYPES

GYP — GYPSUM BOARD CEILING
GYP 1 TYPICAL
GYP 2 MOISTURE RESISTANT

CEILING TYPE TAG

XXX-X — CEILING MATERIAL

MECHANICAL SYMBOLS

SUPPLY AIR CEILING DIFFUSER
REFER TO MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION

BATHROOM FAN

LIGHT FIXTURE SYMBOLS

WALL SCONCE
SURFACE MOUNTED LIGHT
EXIT LIGHTS
NEW CEILING MOUNTED CAMERA
NEW EMERGENCY STROBE/SPEAKER
OS — NEW OCCUPANCY SENSOR
CEILING FAN W/ LIGHT
KITCHEN PENDANT LIGHT

ARCHITECTURAL SYMBOLS

ATTIC ACCESS DOOR. NOMINAL 2'x4' WITH GASKETING.

MHM

McCarty Holsaple McCarty, Inc.
550 W. Main St., Suite 300
Knoxville, TN 37902
t 865.544.2000
www.mhminc.com

Consultants:

CIVIL ENGINEER:
HUDDLESTON-STEELE ENGINEERING INC.
2112 N.W. BROAD ST.
MURFREESBORO, TN 37129
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615.546.6050

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800 S. GAY ST., STE 1750
KNOXVILLE TN, 37929
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MECHANICAL & PLUMBING ENGINEER:
FACILITY SYSTEMS CONSULTANTS
713 S. CENTRAL ST., STE 101
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865.246.0164

ELECTRICAL ENGINEER:
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Project Information:

21026

MHA Parkside Housing

520 EAST CASTLE STREET,
MURFREESBORO, TN 37130

Seal:

Consultant:

#	ISSUE	DATE

Issue Date:	04/04/2022
PIC	M. BUTLER
PM	M. BUTLER
PA	G. TAYLOR
Drawn By:	Author
Checked By:	J. BRADLEY

Sheet Description:

A-125

BUILDING B - LEVEL 01
REFLECTED CEILING PLAN

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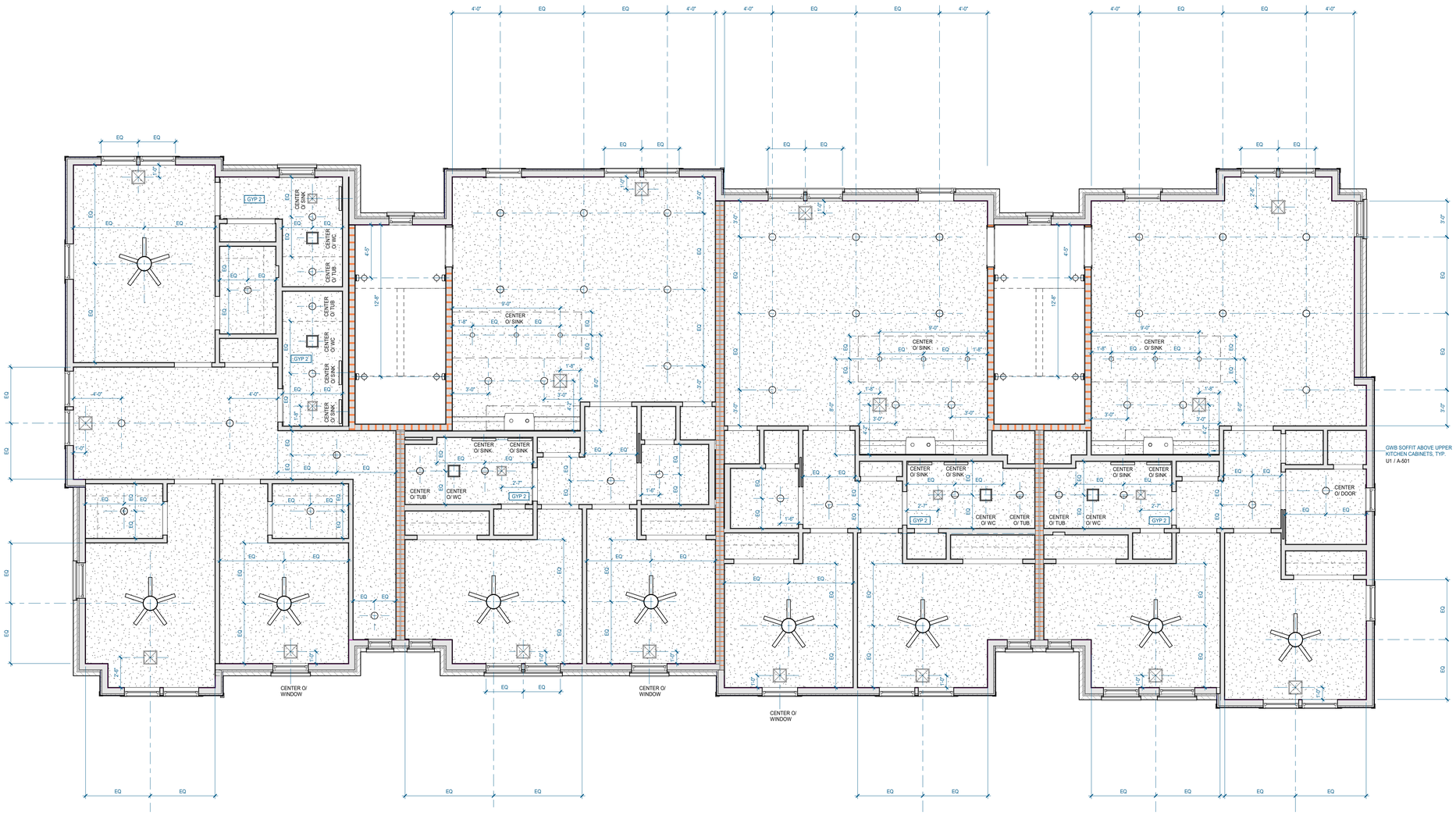

RCP GENERAL NOTES

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CEILING TYPES

GYP — GYPSUM BOARD CEILING

GYP 1 TYPICAL
GYP 2 MOISTURE RESISTANT

CEILING TYPE TAG

XXX.X — CEILING MATERIAL

MECHANICAL SYMBOLS

SUPPLY AIR CEILING DIFFUSER
REFER TO MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION

BATHROOM FAN

LIGHT FIXTURE SYMBOLS

WALL SCONCE

SURFACE MOUNTED LIGHT

EXIT LIGHTS

NEW CEILING MOUNTED CAMERA

S — NEW EMERGENCY STROBE/SPEAKER

OS — NEW OCCUPANCY SENSOR

CEILING FAN W/ LIGHT

KITCHEN PENDANT LIGHT

ARCHITECTURAL SYMBOLS

ATTIC ACCESS DOOR. NOMINAL 2'x4' WITH GASKETING.

A24 BUILDING B - LEVEL 2 RCP
1/4" = 1'-0"

11/15/2023 2:52:18 PM

MHM

McCarty Holsaple McCarty, Inc.
550 W. Main St., Suite 300
Knoxville, TN 37902
t 865.544.2000
www.mhminc.com

Consultants:

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Consultant:

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Issue Date:	04/04/2022
PIC	M. BUTLER
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PA	G. TAYLOR
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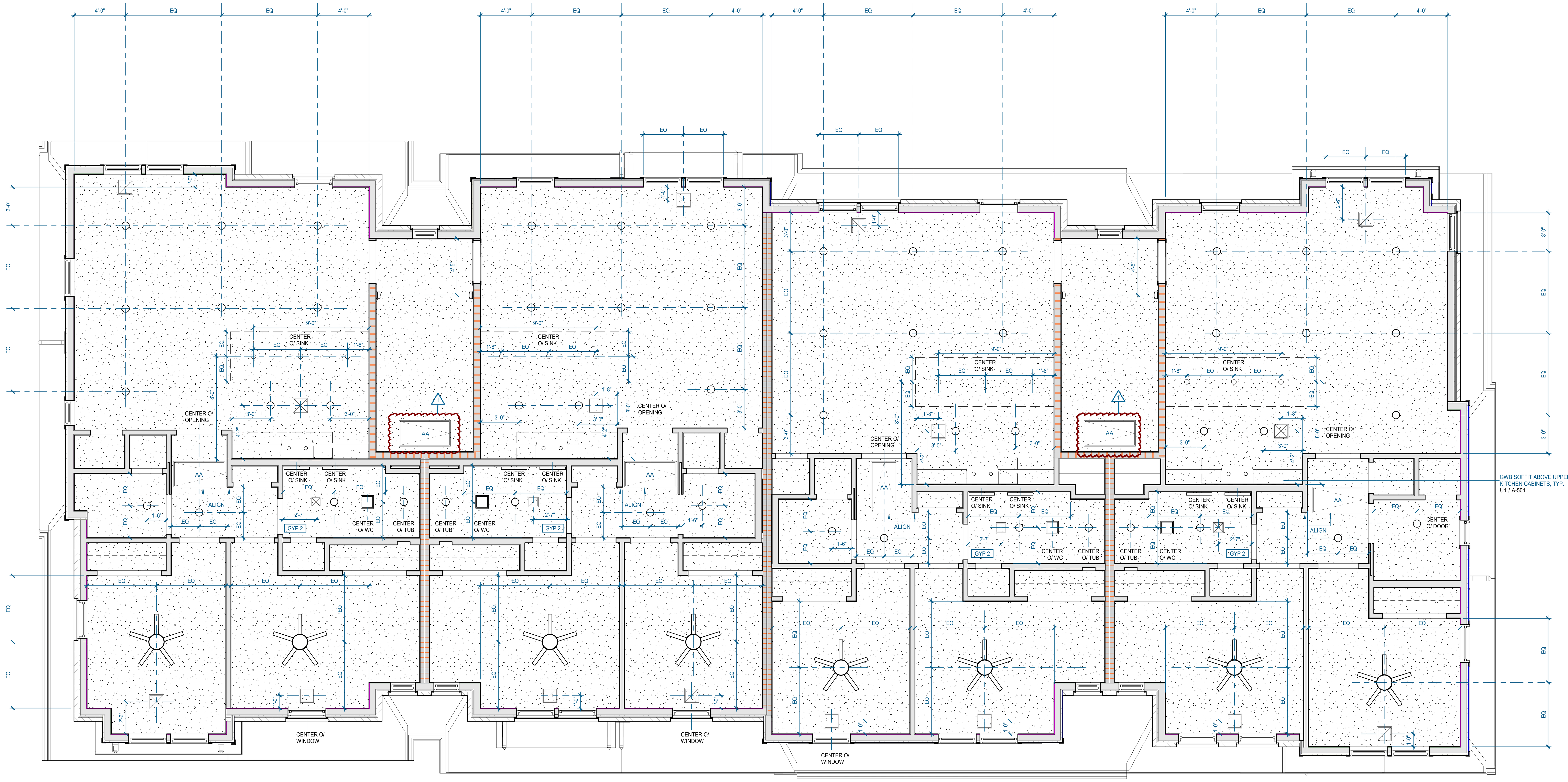
Checked By:	J. BRADLEY

Sheet Description:

A-126

BUILDING B - LEVEL 02
REFLECTED CEILING PLAN



A24 BUILDING B - LEVEL 3 RCP

1/4" = 1'-0"

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GYP — GYPSUM BOARD CEILING

GYP 1 TYPICAL
GYP 2 MOISTURE RESISTANT

CEILING TYPE TAG

XXX-X — CEILING MATERIAL

MECHANICAL SYMBOLS

SUPPLY AIR CEILING DIFFUSER REFER TO MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION

BATHROOM FAN

LIGHT FIXTURE SYMBOLS

WALL SCONCE

SURFACE MOUNTED LIGHT

EXIT LIGHTS

NEW CEILING MOUNTED CAMERA

NEW EMERGENCY STROBE/SPEAKER

NEW OCCUPANCY SENSOR

CEILING FAN W/ LIGHT

KITCHEN PENDANT LIGHT

ARCHITECTURAL SYMBOLS

ATTIC ACCESS DOOR. NOMINAL 2'x4' WITH GASKETING.

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Project Information:

21026

MHA Parkside Housing
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MURFREESBORO, TN 37130

Consultant:

#	ISSUE	DATE
1	REVISION 01 - CITY COMMENTS RESPONSE	08.23.2022

Issue Date:	04/04/2022
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PM	M. BUTLER
PA	G. TAYLOR
Drawn By:	Author
Checked By:	J. BRADLEY

Sheet Description:

A-127

BUILDING B - LEVEL 03 REFLECTED CEILING PLAN

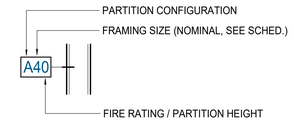
FINISH LEGEND - TYPICAL ALL BUILDINGS

ITEM	TAG	MATERIAL	LOCATION	SPECIFICATION
FLOOR FINISH				
	LVT-1	LUXURY VINYL TILE	GENERAL	MOHAWK GROUP, HOT & HEAVY COLLECTION, PATTERN: #C0009 SECOYA, COLOR: 123 BENMORE, SIZE: 9"x59", THICKNESS: 5MM, WEAR LAYER: 20 MIL
BASE/TRIM FINISH				
	B-1	WOOD BASE	GENERAL	1X4 PAINTED WOOD BASE, SEMI-GLOSS FINISH, PT-3
	T-1	PRIVATE STAIR TREADS & LANDINGS	MULTI-STORY UNITS	1" WOOD STAIR TREADS AND LANDINGS, FULL BULLNOSE PROFILE, STAINED. TBD BASED ON SAMPLES OF: 1) MINWAX EBONY 2718. 2) MINWAX TRUE BLACK 274. 3) CONTRACTOR'S MIX OF 1 & 2.
WALL FINISH				
	PT-1	PAINT	CEILING	BENJAMIN MOORE, COLOR: OC-149 CEILING DECORATOR'S WHITE, FLAT FINISH
	PT-2	PAINT	GENERAL	BENJAMIN MOORE, COLOR: OC-22 CALM, EGGSHELL FINISH; SATIN FINISH IN THE BATHROOM, LAUNDRY & KITCHEN
	PT-3	PAINT	TRIM, PRIVATE STAIR RISERS, PRIVATE STAIR TRIM	BENJAMIN MOORE, COLOR: OC-149 DECORATOR'S WHITE, SEMI-GLOSS FINISH
	WT-1	CERAMIC WALL TILE	KITCHEN BACKSPLASH	BOSS FLOORING, ARRAY SUBWAY TILE, COLOR: U081 WHITE ICE, FINISH: BRIGHT, SIZE: 3"x6", INSTALL: STACKED, GROUT: GT-1. CONTACT: SEAN VAUGHN (404)992.3434
MILLWORK FINISH				
	QT-1	QUARTZ	KITCHEN COUNTER	WILSONART QUARTZ SELECT, MARFA Q6019
	SS-1	SOLID SURFACE	BATHROOM COUNTER	WILSONART SOLID SURFACE, COLOR: DESIGNER WHITE D354SL(1)
	MW-1	UPPER CABINETRY	KITCHEN	ADVANTA CABINETS, RUTLEDGE SLAB, PAINT, COLOR: ALPINE WHITE
	MW-2	LOWER CABINETRY & ISLAND CABINETRY	KITCHEN	ADVANTA CABINETS, RUTLEDGE SLAB, PAINT, COLOR: ONYX
	MW-3	VANITY	BATHROOM	ADVANTA CABINETS, RUTLEDGE SLAB, PAINT, COLOR: RIVER ROCK
CEILING FINISH				
	GYP	GYPSUM WALL BOARD		PAINTED PT-1
MISCELLANEOUS				
	GT-1	GROUT		TO BE USED W/ WT-1: TEC 949 SILVERADO

ENLARGED PLAN AND INTERIOR ELEVATION GENERAL NOTES

1. REFER TO SHEET A-001 FOR ADDITIONAL GENERAL NOTES.
2. ALL NEW PARTITIONS SHALL BE TYPE **A40**, UNO; REFER TO PARTITION SCHEDULE FOR MORE INFORMATION.
3. TYPICAL DIMENSIONS SHOWN ON THE FLOOR PLANS FOR NEW CONSTRUCTION ARE TO THE FACE OF STUD, UNLESS OTHERWISE NOTED.
4. PLUMBING LOCATIONS ARE DIMENSIONED FROM FINISHED FACE OF DRYWALL TO PLUMBING CENTERLINE.
5. PARTITION TYPES ARE SCHEDULED IN THE A-000 SERIES. RE: G-100 SERIES "CODE COMPLIANCE PLANS/LIFE SAFETY PLANS FOR GRAPHIC EXTENT OF FIRE RATED PARTITIONS. REFER TO PARTITION TYPE SCHEDULE FOR LOCATION OF SOUND ATTENUATION BLANKETS
6. LAYOUT PARTITIONS FOR ARCHITECT TO REVIEW FOR DESIGN INTENT. DO NOT PROCEED WITH INSTALLATION OF RUNNERS OR STUDS WITHOUT THIS REVIEW.
7. LOCATE DOORS 4" FROM FACE OF INTERSECTING PARTITION TO INSIDE EDGE OF DOOR FRAME, UNO.
8. THE CONTRACTOR SHALL PATCH AND REPAIR ALL EXISTING AND NEW WALL SURFACES AS REQUIRED PRIOR TO APPLYING FINISHES.
9. THE CONTRACTOR SHALL SURVEY FLOOR ELEVATIONS TO DETERMINE SCOPE OF FLOOR LEVELING AND REMEDIAL REPAIR WORK. THE CONTRACTOR SHALL INCLUDE IN HIS SCOPE OF WORK ALL COSTS THAT ARE ASSOCIATED WITH FLOOR LEVELING AND ASSOCIATED REMEDIAL REPAIR WORK. FLOOR SHALL BE LEVEL WITHIN 1/4" IN 10'-0" RADIUS.
10. PROVIDE MINIMUM 1'-0" CLEAR FLOOR SPACE AT THE PUSH SIDE OF EVERY DOOR WITH A CLOSER. PROVIDE MINIMUM 1'-6" CLEAR AT THE PULL SIDE OF EVERY DOOR, UNLESS SPECIFICALLY DIMENSIONED, NOTED OR SHOWN OTHERWISE.
11. OPENINGS IN GYPSUM BOARD FOR ELECTRICAL AND COMMUNICATION RECEPTACLE, PIPING, DUCTWORK, AND OTHER PENETRATIONS SHALL MAINTAIN TIGHT TOLERANCES. EXPOSED EDGES SHALL BE COVERED BY TRIM PLATES OR ESCUTCHEONS.
12. ALL GYPSUM BOARD WALLS TO RECEIVE TILE OR FRP FINISHES SHALL HAVE TILE BACKER BOARD. ALL OTHER WALLS IN TOILET ROOM AND KITCHENS TO BE WATER-RESISTANT GYPSUM BOARD.
13. PARTITIONS NOT DIMENSIONED ARE GENERALLY LOCATED BY ONE OF THE FOLLOWING CRITERIA:
    A. CENTERLINE: CENTER OF PARTITION ALIGNS WITH THE CENTER OF GRIDLINE OR OBJECT CENTERLINE (SUCH AS A COLUMN OR MULLION). CENTER THE OVERALL PARTITION WIDTH RATHER THAN STUD WIDTH ON THE LINE.
    B. ALIGN: LOCATE PARTITION FLUSH WITH FACE OF GYPSUM BOARD, OR OTHER SURFACE INDICATED.
    C. MAINTAIN DIMENSIONS NOTED AS 'MINIMUM', 'CLEAR', OR 'HOLD'.
14. SEE A-002 FOR TYPICAL MOUNTING HEIGHTS OF PLUMBING FIXTURES AND TOILET ACCESSORIES.
15. ALL LAVATORIES AND SINKS SHALL BE MOUNTED A MINIMUM OF 1'-3" FROM THE CENTERLINE OF THE FIXTURE TO THE FINISHED FACE OF THE ADJACENT PARTITION.
16. BLOCKING TO BE PROVIDED AT ALL TOILETS AND SHOWERS/TUBS TO ALLOW FOR FUTURE GRAB BARS.
17. CONTINUOUS BLOCKING TO BE PROVIDED AT ALL WALL CABINET LOCATIONS.
18. ALL STORAGE AND LINEN CLOSETS TO RECEIVE WIRE SHELVING AT 12" INTERVALS FROM 1'-0" TO 6'-0" AFF.
19. ALL LAUNDRY ROOMS TO RECEIVE ADJUSTABLE SHELVING ON STANDARDS.
20. ALL BEDROOM CLOSETS TO RECEIVE HANGING ROD AND SHELF @ 5'-0" AFF. UFAS BEDROOM CLOSETS TO RECEIVE HANGING ROD AND SHELF @ 54" MAX AFF.
21. SLOPE ALL PORCHES AWAY FROM BUILDING @ 1/8":12" MAX. PORCH FINISH TO BE LIGHT BROOM FINISH IN DIRECTION OF SLOPE.
22. ROUTE ALL ROOF PENETRATIONS TO THE AREA INDICATED ON ROOF PLANS.

INTERIOR PARTITION TYPE PLAN SYMBOL



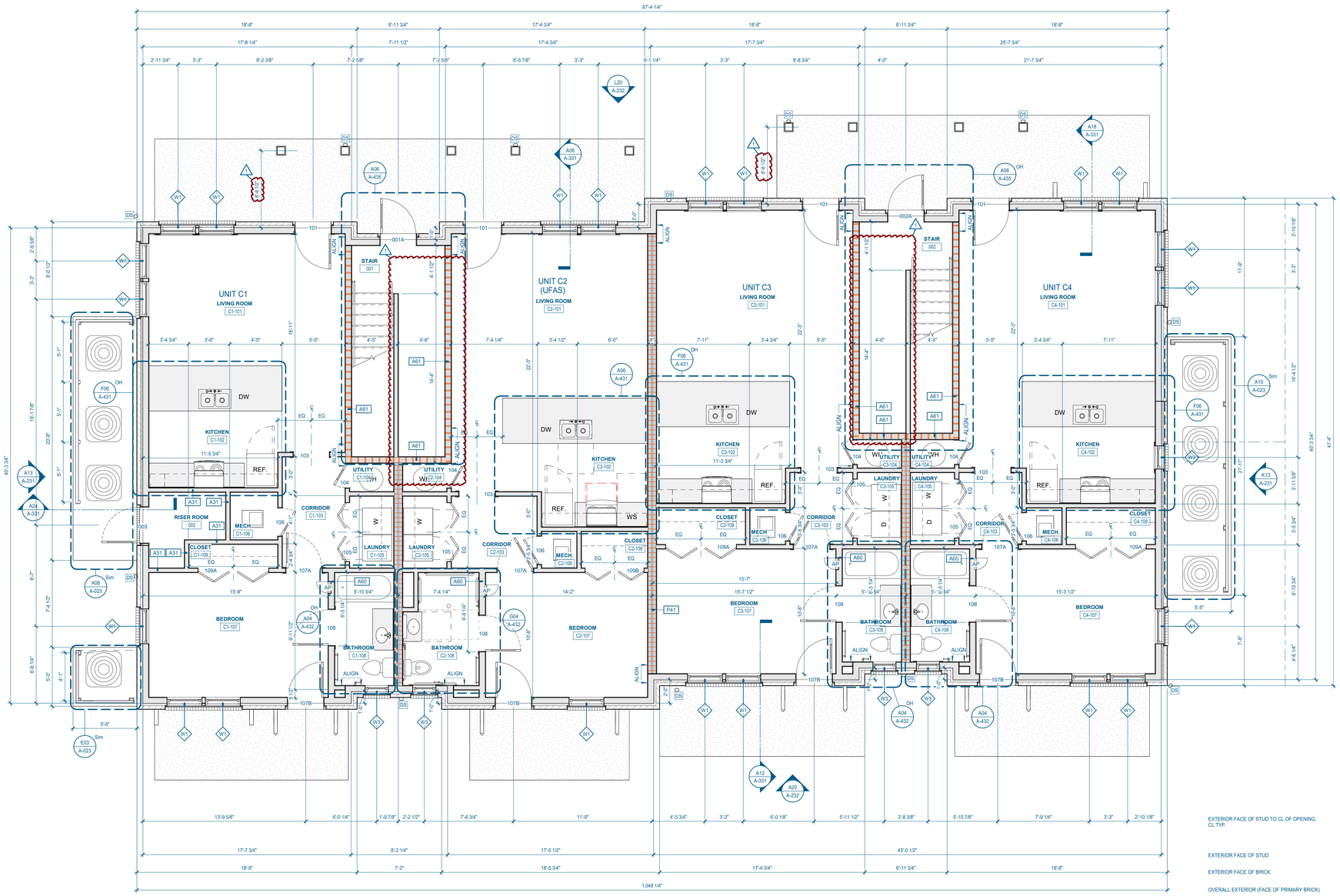
PARTITION TAG LEGEND

FRAMING SIZE CHART (SEE PARTITION CHARTS)

XXX	FRAMING SIZE (**MTL**)	XXX	FRAMING SIZE (**CMU**)
0	HAT OR 'Z' FURRING	**4**	3 5/8" CONCRETE MASONRY UNIT
1	1 5/8" NON LOAD-BEARING MTL STUD	**6**	5 5/8" CONCRETE MASONRY UNIT
2	2 1/2" NON LOAD-BEARING MTL STUD	**8**	7 5/8" CONCRETE MASONRY UNIT
3	3 5/8" NON LOAD-BEARING MTL STUD	**10**	9 5/8" CONCRETE MASONRY UNIT
4	4" NON LOAD-BEARING MTL STUD	**12**	11 5/8" CONCRETE MASONRY UNIT
6	6" NON LOAD-BEARING MTL STUD		
8	8" NON LOAD-BEARING MTL STUD		

FIRE RATING / PARTITION HEIGHT DESIGNATION

XXX	HEIGHT/RATING DESCRIPTION
A	NON-RATED - EXTEND STUDS TO UNDERSIDE OF STRUCTURE ABOVE. EXTEND GYPSUM OR BACKER BD & ACOUSTICAL INSULATION TO 6" ABOVE CEILING.
B	NON RATED PARITION - TO UNDERSIDE OF CEILING
0	NON RATED - TO UNDERSIDE OF STRUCTURE ABOVE
1	(1) HOUR FIRE-RATED
2	(2) HOUR FIRE-RATED
S	SMOKE-RESISTANT PARTITION
P	PARTIAL HEIGHT PARTITION (SEE PLAN & ELEVATIONS FOR PARTITION HEIGHT)



A24 BUILDING C - LEVEL 1 FLOOR PLAN
1/4" = 1'-0"

UNITS GROSS SQ FOOTAGE

BUILDING C	
FIRST FLOOR:	
UNIT C1:	758.47 SF
UNIT C2:	788.84 SF
UNIT C3:	789.02 SF
UNIT C4:	795.33 SF
SECOND FLOOR:	
UNIT C5:	852.04 SF
UNIT C6:	830.57 SF
UNIT C7:	830.77 SF
UNIT C8:	848.46 SF
THIRD FLOOR:	
UNIT C5:	888.35 SF
UNIT C6:	861.66 SF
UNIT C7:	861.86 SF
UNIT C8:	885.27 SF

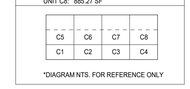


*DIAGRAM NTS. FOR REFERENCE ONLY

MHM

McCarty Holsaple McCarty, Inc.
550 W. Main St., Suite 300
Knoxville, TN 37902
t 865.544.2000
www.mhminc.com

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713 S. CENTRAL ST., STE 101
KNOXVILLE TN, 37902
865.246.0164

ELECTRICAL ENGINEER:

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Project Information:

21026

MHA Parkside Housing
520 EAST CASTLE STREET,
MURFREESBORO, TN 37130

Seal:

Consultant:

#	ISSUE	DATE
1	REVISION 01 - CITY COMMENTS RESPONSE	08.23.2022

Issue Date:	04/04/2022
PIC	M. BUTLER
PM	M. BUTLER
PA	G. TAYLOR
Drawn By:	Author
Checked By:	J. BRADLEY

Sheet Description:

A-131

BUILDING C FLOOR PLAN - LEVEL 01

11/15/2023 2:52:25 PM

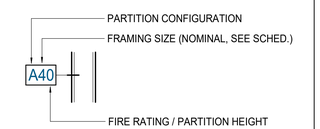
FINISH LEGEND - TYPICAL ALL BUILDINGS

ITEM	TAG	MATERIAL	LOCATION	SPECIFICATION
FLOOR FINISH				
	LVT-1	LUXURY VINYL TILE	GENERAL	MOHAWK GROUP, HOT & HEAVY COLLECTION, PATTERN: #C0009 SECOYA, COLOR: 123 BENMORE, SIZE: 9"x59", THICKNESS: 5MM, WEAR LAYER: 20 MIL
BASE/TRIM FINISH				
	B-1	WOOD BASE	GENERAL	1X4 PAINTED WOOD BASE, SEMI-GLOSS FINISH, PT-3
	T-1	PRIVATE STAIR TREADS & LANDINGS	MULTI-STORY UNITS	1" WOOD STAIR TREADS AND LANDINGS, FULL BULLNOSE PROFILE, STAINED, TBD BASED ON SAMPLES OF: 1) MINWAX EBONY 2718. 2) MINWAX TRUE BLACK 274. 3) CONTRACTOR'S MIX OF 1 & 2.
WALL FINISH				
	PT-1	PAINT	CEILING	BENJAMIN MOORE, COLOR: OC-149 CEILING DECORATOR'S WHITE, FLAT FINISH
	PT-2	PAINT	GENERAL	BENJAMIN MOORE, COLOR: OC-22 CALM, EGGSHELL FINISH; SATIN FINISH IN THE BATHROOM, LAUNDRY & KITCHEN
	PT-3	PAINT	TRIM, PRIVATE STAIR RISERS, PRIVATE STAIR TRIM	BENJAMIN MOORE, COLOR: OC-149 DECORATOR'S WHITE, SEMI-GLOSS FINISH
	WT-1	CERAMIC WALL TILE	KITCHEN BACKSPLASH	BOSS FLOORING, ARRAY SUBWAY TILE, COLOR: U081 WHITE ICE, FINISH: BRIGHT, SIZE: 3"x6", INSTALL: STACKED, GROUT: GT-1. CONTACT: SEAN VAUGHN (404)992.3434
MILLWORK FINISH				
	QT-1	QUARTZ	KITCHEN COUNTER	WILSONART QUARTZ SELECT, MARFA Q6019
	SS-1	SOLID SURFACE	BATHROOM COUNTER	WILSONART SOLID SURFACE, COLOR: DESIGNER WHITE D354SL(1)
	MW-1	UPPER CABINETRY	KITCHEN	ADVANTA CABINETS, RUTLEDGE SLAB, PAINT, COLOR: ALPINE WHITE
	MW-2	LOWER CABINETRY & ISLAND CABINETRY	KITCHEN	ADVANTA CABINETS, RUTLEDGE SLAB, PAINT, COLOR: ONYX
	MW-3	VANITY	BATHROOM	ADVANTA CABINETS, RUTLEDGE SLAB, PAINT, COLOR: RIVER ROCK
CEILING FINISH				
	GYP	GYPSUM WALL BOARD		PAINTED PT-1
MISCELLANEOUS				
	GT-1	GROUT		TO BE USED W/ WT-1: TEC 949 SILVERADO

ENLARGED PLAN AND INTERIOR ELEVATION GENERAL NOTES

1. REFER TO SHEET A-001 FOR ADDITIONAL GENERAL NOTES.
2. ALL NEW PARTITIONS SHALL BE TYPE **A40**, UNO; REFER TO PARTITION SCHEDULE FOR MORE INFORMATION.
3. TYPICAL DIMENSIONS SHOWN ON THE FLOOR PLANS FOR NEW CONSTRUCTION ARE TO THE FACE OF STUD, UNLESS OTHERWISE NOTED.
4. PLUMBING LOCATIONS ARE DIMENSIONED FROM FINISHED FACE OF DRYWALL TO PLUMBING CENTERLINE.
5. PARTITION TYPES ARE SCHEDULED IN THE A-000 SERIES. RE: G-100 SERIES "CODE COMPLIANCE PLANS/LIFE SAFETY PLANS FOR GRAPHIC EXTENT OF FIRE RATED PARTITIONS. REFER TO PARTITION TYPE SCHEDULE FOR LOCATION OF SOUND ATTENUATION BLANKETS
6. LAYOUT PARTITIONS FOR ARCHITECT TO REVIEW FOR DESIGN INTENT. DO NOT PROCEED WITH INSTALLATION OF RUNNERS OR STUDS WITHOUT THIS REVIEW.
7. LOCATE DOORS 4" FROM FACE OF INTERSECTING PARTITION TO INSIDE EDGE OF DOOR FRAME, UNO.
8. THE CONTRACTOR SHALL PATCH AND REPAIR ALL EXISTING AND NEW WALL SURFACES AS REQUIRED PRIOR TO APPLYING FINISHES.
9. THE CONTRACTOR SHALL SURVEY FLOOR ELEVATIONS TO DETERMINE SCOPE OF FLOOR LEVELING AND REMEDIAL REPAIR WORK. THE CONTRACTOR SHALL INCLUDE IN HIS SCOPE OF WORK ALL COSTS THAT ARE ASSOCIATED WITH FLOOR LEVELING AND ASSOCIATED REMEDIAL REPAIR WORK. FLOOR SHALL BE LEVEL WITHIN 1/4" IN 10'-0" RADIUS.
10. PROVIDE MINIMUM 1'-0" CLEAR FLOOR SPACE AT THE PUSH SIDE OF EVERY DOOR WITH A CLOSER. PROVIDE MINIMUM 1'-6" CLEAR AT THE PULL SIDE OF EVERY DOOR, UNLESS SPECIFICALLY DIMENSIONED, NOTED OR SHOWN OTHERWISE.
11. OPENINGS IN GYPSUM BOARD FOR ELECTRICAL AND COMMUNICATION RECEPTACLE, PIPING, DUCTWORK, AND OTHER PENETRATIONS SHALL MAINTAIN TIGHT TOLERANCES. EXPOSED EDGES SHALL BE COVERED BY TRIM PLATES OR ESCUTCHEONS.
12. ALL GYPSUM BOARD WALLS TO RECEIVE TILE OR FRP FINISHES SHALL HAVE TILE BACKER BOARD. ALL OTHER WALLS IN TOILET ROOM AND KITCHENS TO BE WATER-RESISTANT GYPSUM BOARD.
13. PARTITIONS NOT DIMENSIONED ARE GENERALLY LOCATED BY ONE OF THE FOLLOWING CRITERIA:
    A. CENTERLINE: CENTER OF PARTITION ALIGNS WITH THE CENTER OF GRIDLINE OR OBJECT CENTERLINE (SUCH AS A COLUMN OR MULLION). CENTER THE OVERALL PARTITION WIDTH RATHER THAN STUD WIDTH ON THE LINE.
    B. ALIGN: LOCATE PARTITION FLUSH WITH FACE OF GYPSUM BOARD, OR OTHER SURFACE INDICATED.
    C. MAINTAIN DIMENSIONS NOTED AS 'MINIMUM', 'CLEAR', OR 'HOLD'.
14. SEE A-002 FOR TYPICAL MOUNTING HEIGHTS OF PLUMBING FIXTURES AND TOILET ACCESSORIES.
15. ALL LAVATORIES AND SINKS SHALL BE MOUNTED A MINIMUM OF 1'-3" FROM THE CENTERLINE OF THE FIXTURE TO THE FINISHED FACE OF THE ADJACENT PARTITION.
16. BLOCKING TO BE PROVIDED AT ALL TOILETS AND SHOWERS/TUBS TO ALLOW FOR FUTURE GRAB BARS.
17. CONTINUOUS BLOCKING TO BE PROVIDED AT ALL WALL CABINET LOCATIONS.
18. ALL STORAGE AND LINEN CLOSETS TO RECEIVE WIRE SHELVING AT 12" INTERVALS FROM 1'-0" TO 6'-0" AFF.
19. ALL LAUNDRY ROOMS TO RECEIVE ADJUSTABLE SHELVING ON STANDARDS.
20. ALL BEDROOM CLOSETS TO RECEIVE HANGING ROD AND SHELF @ 5'-0" AFF. UFAS BEDROOM CLOSETS TO RECEIVE HANGING ROD AND SHELF @ 54" MAX AFF.
21. SLOPE ALL PORCHES AWAY FROM BUILDING @ 1/8":12" MAX. PORCH FINISH TO BE LIGHT BROOM FINISH IN DIRECTION OF SLOPE.
22. ROUTE ALL ROOF PENETRATIONS TO THE AREA INDICATED ON ROOF PLANS.

INTERIOR PARTITION TYPE PLAN SYMBOL



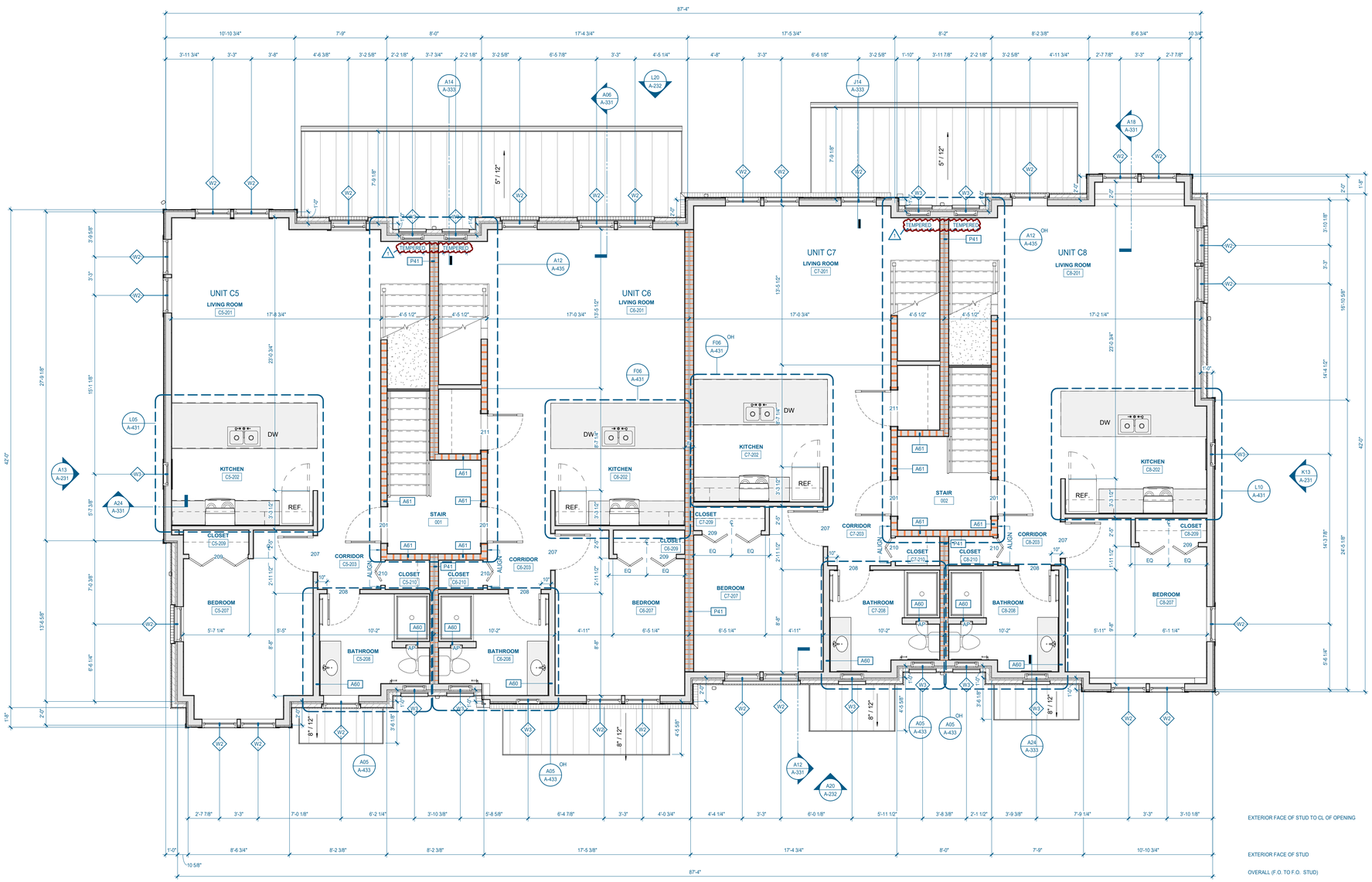
PARTITION TAG LEGEND

FRAMING SIZE CHART (SEE PARTITION CHARTS)

XXX	FRAMING SIZE (**MTL**)	XXX	FRAMING SIZE (**CMU**)
0	HAT OR 'Z' FURRING	**4**	3 5/8" CONCRETE MASONRY UNIT
1	1 5/8" NON LOAD-BEARING MTL STUD	**6**	5 5/8" CONCRETE MASONRY UNIT
2	2 1/2" NON LOAD-BEARING MTL STUD	**8**	7 5/8" CONCRETE MASONRY UNIT
3	3 5/8" NON LOAD-BEARING MTL STUD	**10**	9 5/8" CONCRETE MASONRY UNIT
4	4" NON LOAD-BEARING MTL STUD	**12**	11 5/8" CONCRETE MASONRY UNIT
6	6" NON LOAD-BEARING MTL STUD		
8	8" NON LOAD-BEARING MTL STUD		

FIRE RATING / PARTITION HEIGHT DESIGNATION

XXX	HEIGHT/RATING DESCRIPTION
A	NON-RATED - EXTEND STUDS TO UNDERSIDE OF STRUCTURE ABOVE. EXTEND GYPSUM OR BACKER BD & ACOUSTICAL INSULATION TO 6" ABOVE CEILING.
B	NON RATED PARITION - TO UNDERSIDE OF CEILING
0	NON RATED - TO UNDERSIDE OF STRUCTURE ABOVE
1	(1) HOUR FIRE-RATED
2	(2) HOUR FIRE-RATED
S	SMOKE-RESISTANT PARTITION
P	PARTIAL HEIGHT PARTITION (SEE PLAN & ELEVATIONS FOR PARTITION HEIGHT)



A24 BUILDING C - LEVEL 2 FLOOR PLAN

1/4" = 1'-0"

UNITS GROSS SQ FOOTAGE

BUILDING C	
FIRST FLOOR:	
UNIT C1:	758.47 SF
UNIT C2:	788.84 SF
UNIT C3:	789.02 SF
UNIT C4:	795.33 SF
SECOND FLOOR:	
UNIT C5:	852.04 SF
UNIT C6:	830.57 SF
UNIT C7:	830.77 SF
UNIT C8:	848.46 SF
THIRD FLOOR:	
UNIT C5:	886.35 SF
UNIT C6:	861.66 SF
UNIT C7:	861.86 SF
UNIT C8:	885.27 SF

C5	C6	C7	C8
C1	C2	C3	C4

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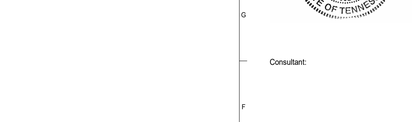

Consultant:

#	ISSUE	DATE
1	REVISION 01 - CITY COMMENTS RESPONSE	08.23.2022

Issue Date:	04/04/2022
PIC	M. BUTLER
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PA	G. TAYLOR
Drawn By:	Author
Checked By:	J. BRADLEY

Sheet Description:

A-132

BUILDING C FLOOR PLAN - LEVEL 02

11/15/2023 2:52:28 PM

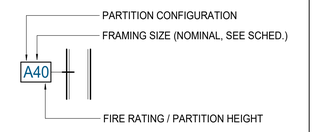
FINISH LEGEND - TYPICAL ALL BUILDINGS

ITEM	TAG	MATERIAL	LOCATION	SPECIFICATION
FLOOR FINISH				
	LVT-1	LUXURY VINYL TILE	GENERAL	MOHAWK GROUP, HOT & HEAVY COLLECTION, PATTERN: #C0009 SECOYA, COLOR: 123 BENMORE, SIZE: 9"x59", THICKNESS: 5MM, WEAR LAYER: 20 MIL
BASE/TRIM FINISH				
	B-1	WOOD BASE	GENERAL	1X4 PAINTED WOOD BASE, SEMI-GLOSS FINISH, PT-3
	T-1	PRIVATE STAIR TREADS & LANDINGS	MULTI-STORY UNITS	1" WOOD STAIR TREADS AND LANDINGS, FULL BULLNOSE PROFILE, STAINED, TBD BASED ON SAMPLES OF: 1) MINWAX EBONY 2718. 2) MINWAX TRUE BLACK 274. 3) CONTRACTOR'S MIX OF 1 & 2.
WALL FINISH				
	PT-1	PAINT	CEILING	BENJAMIN MOORE, COLOR: OC-149 CEILING DECORATOR'S WHITE, FLAT FINISH
	PT-2	PAINT	GENERAL	BENJAMIN MOORE, COLOR: OC-22 CALM, EGGSHELL FINISH; SATIN FINISH IN THE BATHROOM, LAUNDRY & KITCHEN
	PT-3	PAINT	TRIM, PRIVATE STAIR RISERS, PRIVATE STAIR TRIM	BENJAMIN MOORE, COLOR: OC-149 DECORATOR'S WHITE, SEMI-GLOSS FINISH
	WT-1	CERAMIC WALL TILE	KITCHEN BACKSPLASH	BOSS FLOORING, ARRAY SUBWAY TILE, COLOR: U081 WHITE ICE, FINISH: BRIGHT, SIZE: 3"x6", INSTALL: STACKED, GROUT: GT-1. CONTACT: SEAN VAUGHN (404)992.3434
MILLWORK FINISH				
	QT-1	QUARTZ	KITCHEN COUNTER	WILSONART QUARTZ SELECT, MARFA Q6019
	SS-1	SOLID SURFACE	BATHROOM COUNTER	WILSONART SOLID SURFACE, COLOR: DESIGNER WHITE D354SL(1)
	MW-1	UPPER CABINETRY	KITCHEN	ADVANTA CABINETS, RUTLEDGE SLAB, PAINT, COLOR: ALPINE WHITE
	MW-2	LOWER CABINETRY & ISLAND CABINETRY	KITCHEN	ADVANTA CABINETS, RUTLEDGE SLAB, PAINT, COLOR: ONYX
	MW-3	VANITY	BATHROOM	ADVANTA CABINETS, RUTLEDGE SLAB, PAINT, COLOR: RIVER ROCK
CEILING FINISH				
	GYP	GYPSUM WALL BOARD		PAINTED PT-1
MISCELLANEOUS				
	GT-1	GROUT		TO BE USED W/ MT-1: TEC 949 SILVERADO

ENLARGED PLAN AND INTERIOR ELEVATION GENERAL NOTES

1. REFER TO SHEET A-001 FOR ADDITIONAL GENERAL NOTES.
2. ALL NEW PARTITIONS SHALL BE TYPE **A60**, UNO; REFER TO PARTITION SCHEDULE FOR MORE INFORMATION.
3. TYPICAL DIMENSIONS SHOWN ON THE FLOOR PLANS FOR NEW CONSTRUCTION ARE TO THE FACE OF STUD, UNLESS OTHERWISE NOTED.
4. PLUMBING LOCATIONS ARE DIMENSIONED FROM FINISHED FACE OF DRYWALL TO PLUMBING CENTERLINE.
5. PARTITION TYPES ARE SCHEDULED IN THE A-000 SERIES. RE: G-100 SERIES "CODE COMPLIANCE PLANS/LIFE SAFETY PLANS FOR GRAPHIC EXTENT OF FIRE RATED PARTITIONS. REFER TO PARTITION TYPE SCHEDULE FOR LOCATION OF SOUND ATTENUATION BLANKETS
6. LAYOUT PARTITIONS FOR ARCHITECT TO REVIEW FOR DESIGN INTENT. DO NOT PROCEED WITH INSTALLATION OF RUNNERS OR STUDS WITHOUT THIS REVIEW.
7. LOCATE DOORS 4" FROM FACE OF INTERSECTING PARTITION TO INSIDE EDGE OF DOOR FRAME, UNO.
8. THE CONTRACTOR SHALL PATCH AND REPAIR ALL EXISTING AND NEW WALL SURFACES AS REQUIRED PRIOR TO APPLYING FINISHES.
9. THE CONTRACTOR SHALL SURVEY FLOOR ELEVATIONS TO DETERMINE SCOPE OF FLOOR LEVELING AND REMEDIAL REPAIR WORK. THE CONTRACTOR SHALL INCLUDE IN HIS SCOPE OF WORK ALL COSTS THAT ARE ASSOCIATED WITH FLOOR LEVELING AND ASSOCIATED REMEDIAL REPAIR WORK. FLOOR SHALL BE LEVEL WITHIN 1/4" IN 10'-0" RADIUS.
10. PROVIDE MINIMUM 1'-0" CLEAR FLOOR SPACE AT THE PUSH SIDE OF EVERY DOOR WITH A CLOSER. PROVIDE MINIMUM 1'-6" CLEAR AT THE PULL SIDE OF EVERY DOOR, UNLESS SPECIFICALLY DIMENSIONED, NOTED OR SHOWN OTHERWISE.
11. OPENINGS IN GYPSUM BOARD FOR ELECTRICAL AND COMMUNICATION RECEPTACLE, PIPING, DUCTWORK, AND OTHER PENETRATIONS SHALL MAINTAIN TIGHT TOLERANCES. EXPOSED EDGES SHALL BE COVERED BY TRIM PLATES OR ESCUTCHEONS.
12. ALL GYPSUM BOARD WALLS TO RECEIVE TILE OR FRP FINISHES SHALL HAVE TILE BACKER BOARD. ALL OTHER WALLS IN TOILET ROOM AND KITCHENS TO BE WATER-RESISTANT GYPSUM BOARD.
13. PARTITIONS NOT DIMENSIONED ARE GENERALLY LOCATED BY ONE OF THE FOLLOWING CRITERIA:
    A. CENTERLINE: CENTER OF PARTITION ALIGNS WITH THE CENTER OF GRIDLINE OR OBJECT CENTERLINE (SUCH AS A COLUMN OR MULLION). CENTER THE OVERALL PARTITION WIDTH RATHER THAN STUD WIDTH ON THE LINE.
    B. ALIGN: LOCATE PARTITION FLUSH WITH FACE OF GYPSUM BOARD, OR OTHER SURFACE INDICATED.
    C. MAINTAIN DIMENSIONS NOTED AS 'MINIMUM', 'CLEAR', OR 'HOLD'.
14. SEE A-002 FOR TYPICAL MOUNTING HEIGHTS OF PLUMBING FIXTURES AND TOILET ACCESSORIES.
15. ALL LAVATORIES AND SINKS SHALL BE MOUNTED A MINIMUM OF 1'-3" FROM THE CENTERLINE OF THE FIXTURE TO THE FINISHED FACE OF THE ADJACENT PARTITION.
16. BLOCKING TO BE PROVIDED AT ALL TOILETS AND SHOWERS/TUBS TO ALLOW FOR FUTURE GRAB BARS.
17. CONTINUOUS BLOCKING TO BE PROVIDED AT ALL WALL CABINET LOCATIONS.
18. ALL STORAGE AND LINEN CLOSETS TO RECEIVE WIRE SHELVING AT 12" INTERVALS FROM 1'-0" TO 6'-0" AFF.
19. ALL LAUNDRY ROOMS TO RECEIVE ADJUSTABLE SHELVING ON STANDARDS.
20. ALL BEDROOM CLOSETS TO RECEIVE HANGING ROD AND SHELF @ 5'-0" AFF. UFAS BEDROOM CLOSETS TO RECEIVE HANGING ROD AND SHELF @ 54" MAX AFF.
21. SLOPE ALL PORCHES AWAY FROM BUILDING @ 1/8":12" MAX. PORCH FINISH TO BE LIGHT BROOM FINISH IN DIRECTION OF SLOPE.
22. ROUTE ALL ROOF PENETRATIONS TO THE AREA INDICATED ON ROOF PLANS.

INTERIOR PARTITION TYPE PLAN SYMBOL



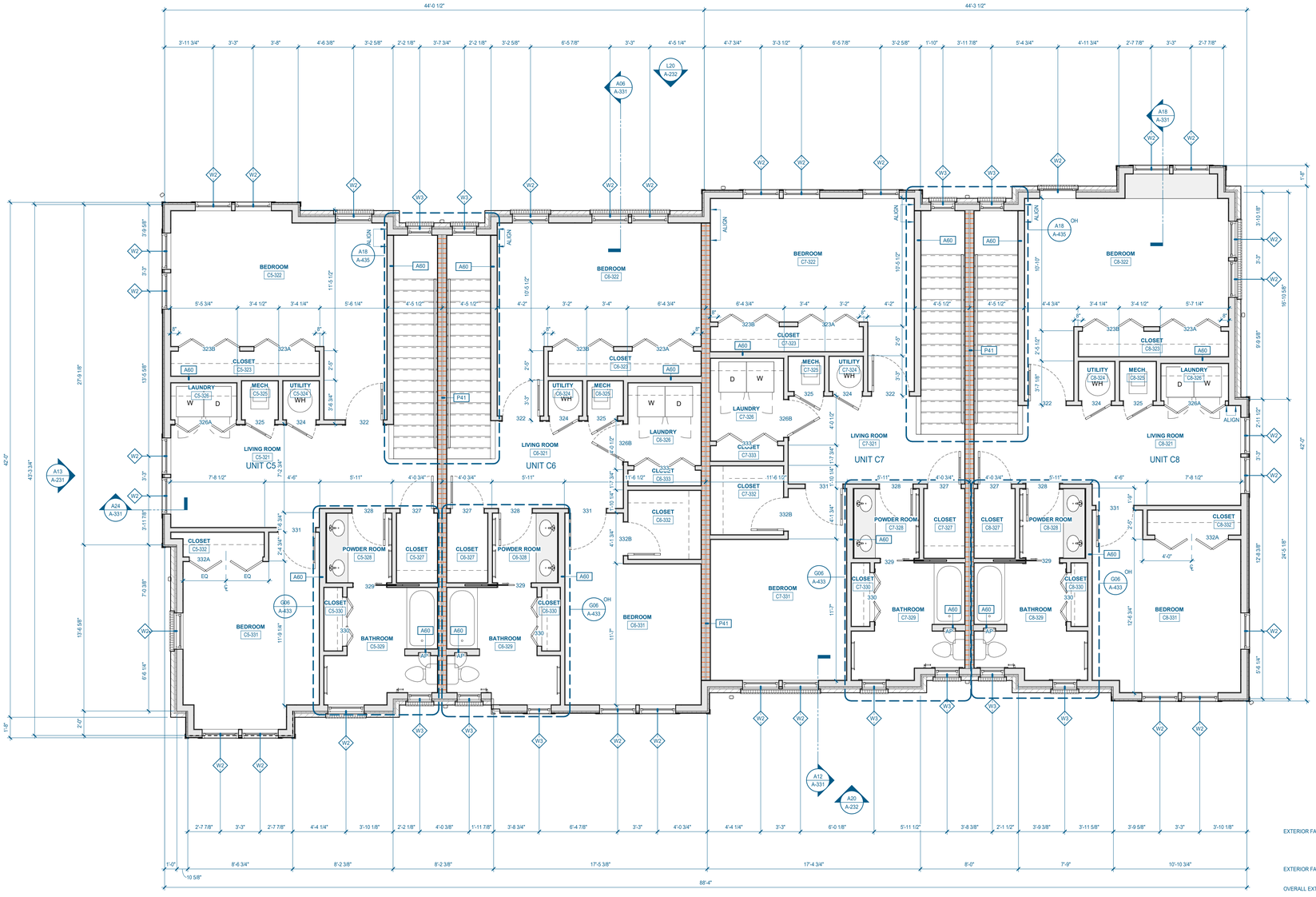
PARTITION TAG LEGEND

FRAMING SIZE CHART (SEE PARTITION CHARTS)

XXX	FRAMING SIZE (MTL)	XXX	FRAMING SIZE (CMU)
0	HAT OR 'Z' FURRING	4	3 5/8" CONCRETE MASONRY UNIT
1	1 5/8" NON LOAD-BEARING MTL STUD	6	5 5/8" CONCRETE MASONRY UNIT
2	2 1/2" NON LOAD-BEARING MTL STUD	8	7 5/8" CONCRETE MASONRY UNIT
3	3 5/8" NON LOAD-BEARING MTL STUD	10	9 5/8" CONCRETE MASONRY UNIT
4	4" NON LOAD-BEARING MTL STUD	12	11 5/8" CONCRETE MASONRY UNIT
6	6" NON LOAD-BEARING MTL STUD		
8	8" NON LOAD-BEARING MTL STUD		

FIRE RATING / PARTITION HEIGHT DESIGNATION

XXX	HEIGHT/RATING DESCRIPTION
A	NON-RATED - EXTEND STUDS TO UNDERSIDE OF STRUCTURE ABOVE. EXTEND GYPSUM OR BACKER BD & ACOUSTICAL INSULATION TO 6" ABOVE CEILING.
B	NON RATED PARITION - TO UNDERSIDE OF CEILING
0	NON RATED - TO UNDERSIDE OF STRUCTURE ABOVE
1	(1) HOUR FIRE-RATED
2	(2) HOUR FIRE-RATED
S	SMOKE-RESISTANT PARTITION
P	PARTIAL HEIGHT PARTITION (SEE PLAN & ELEVATIONS FOR PARTITION HEIGHT)



A24 BUILDING C - LEVEL 3 FLOOR PLAN
1/4" = 1'-0"

UNITS GROSS SQ FOOTAGE

BUILDING C	
FIRST FLOOR:	
UNIT C1:	758.47 SF
UNIT C2:	788.84 SF
UNIT C3:	789.02 SF
UNIT C4:	795.33 SF
SECOND FLOOR:	
UNIT C5:	852.04 SF
UNIT C6:	830.57 SF
UNIT C7:	830.77 SF
UNIT C8:	848.46 SF
THIRD FLOOR:	
UNIT C5:	888.35 SF
UNIT C6:	861.66 SF
UNIT C7:	861.86 SF
UNIT C8:	885.27 SF

C5	C6	C7	C8
C1	C2	C3	C4

*DIAGRAM NTS. FOR REFERENCE ONLY

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Project Information:

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520 EAST CASTLE STREET,
MURFREESBORO, TN 37130

Seal:

Consultant:

#	ISSUE	DATE

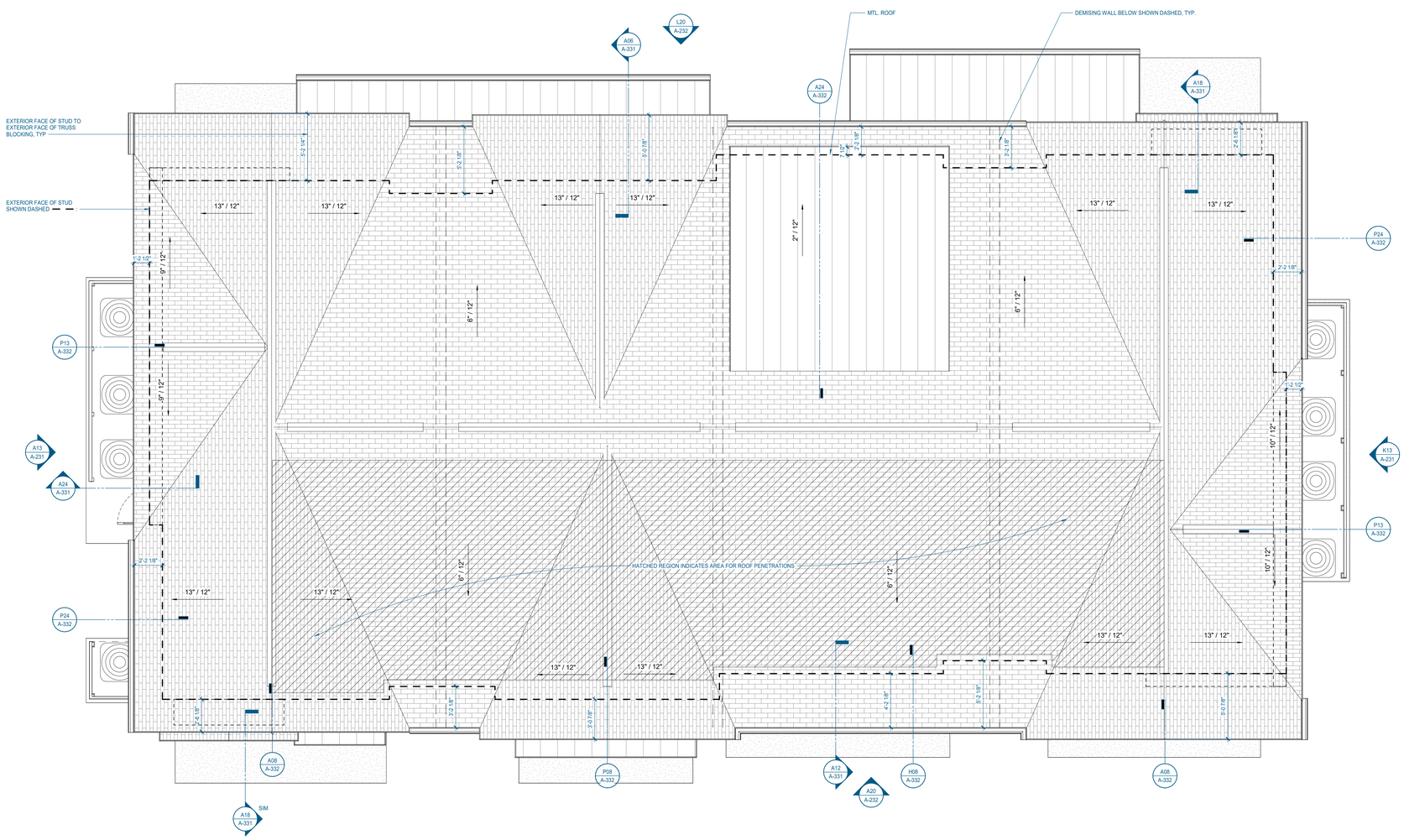
Issue Date:	04/04/2022
PIC	M. BUTLER
PM	M. BUTLER
PA	G. TAYLOR
Drawn By:	Author
Checked By:	J. BRADLEY

Sheet Description:

A-133

BUILDING C FLOOR PLAN - LEVEL 03

11/15/2023 2:52:39 PM



BUILDING C - ROOF PLAN

A24 — 1/4" = 1'-0"

ROOF PLAN GENERAL NOTES

1. REFER TO SHEET A-001 FOR ADDITIONAL GENERAL NOTES.
2. ALL MAIN ROOFS TO BE "ROOF 1" UNO.
   A. ALL PORCH ROOFS TO BE ROOF 2
3. SEE DETAILS FOR ADDITIONAL INFORMATION.
4. SEE STRUCTURAL DRAWINGS FOR ROOF FRAMING.
5. DASHED LINES INDICATE RATED WALL BELOW.
6. PROVIDE RIDGE VENT AS INDICATED.
   A. RIDGE VENT TO STOP 1'-0" FROM EXTERIOR WALLS
   B. RIDGE VENT TO STOP 1'-0" FROM RATED WALLS
7. ALL ROOF PENETRATIONS TO BE IN HATCHED AREA OF ROOF PLAN.
   A. ALL PIPES PENETRATING ROOF TO BE PAINTED TO MATCH ROOF SHINGLE COLOR.
   B. SEE MECHANICAL AND PLUMBING PLANS FOR ROOF PENETRATION/VTR LOCATIONS.
8. SLOPE ALL GUTTERS AT 1/16":12" UNO
   A. ALL GUTTERS TO BE 6" RECTANGULAR PROFILE
   B. ALL DOWNSPOUTS TO BE 3"x4"
   C. TIE DOWNSPOUTS INTO STORM SYSTEM. SEE CIVIL.

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McCarty Holsaple McCarty, Inc.
550 W. Main St., Suite 300
Knoxville, TN 37902
t.865.544.2000
www.mhminc.com

Consultants:

CIVIL ENGINEER:

HUDDLESTON-STEELE ENGINEERING INC.
2112 N.W. BROAD ST.
MURFREESBORO, TN 37129
615.893.4084

LANDSCAPE ARCHITECT:

RAGAN SMITH
100 E. VINE ST., STE 200
MURFREESBORO, TN 37130
615.546.6050

STRUCTURAL ENGINEER:

HAINES STRUCTURAL GROUP
800 S. GAY ST., STE 1750
KNOXVILLE TN, 37929
865.329.9920

MECHANICAL & PLUMBING ENGINEER:

FACILITY SYSTEMS CONSULTANTS
713 S. CENTRAL ST., STE 101
KNOXVILLE TN, 37902
865.246.0164

ELECTRICAL ENGINEER:

FACILITY SYSTEMS CONSULTANTS
713 S. CENTRAL ST., STE 101
KNOXVILLE TN, 37902
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Project Information:

21026

MHA Parkside Housing

520 EAST CASTLE STREET,
MURFREESBORO, TN 37130

Seal:

Consultant:

#	ISSUE	DATE

Issue Date:	04/04/2022
PIC	M. BUTLER
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PA	G. TAYLOR
Drawn By:	Author
Checked By:	J. BRADLEY

Sheet Description:

A-134

BUILDING C - ROOF PLAN

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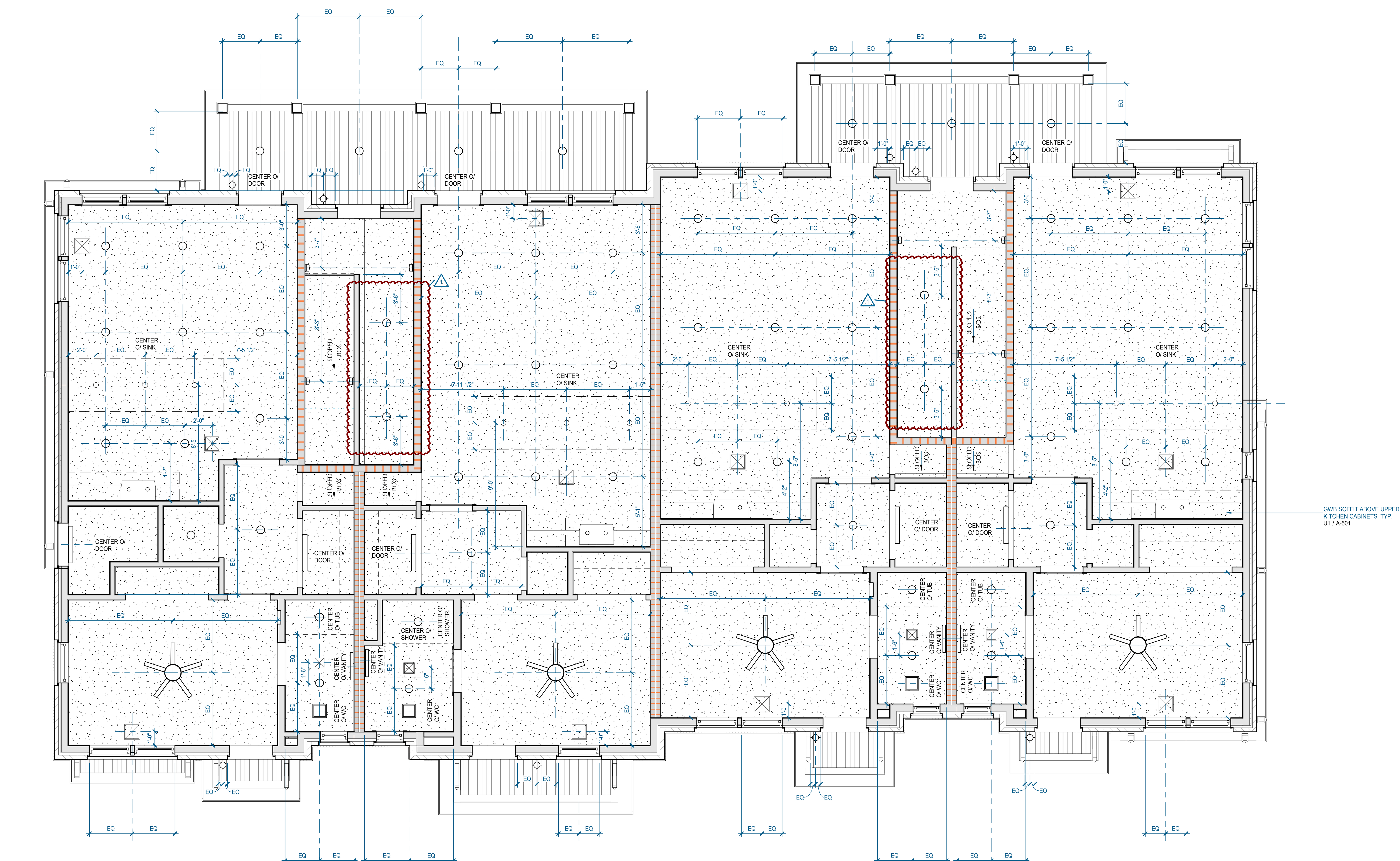

A24 BUILDING C - LEVEL 1 RCP

1/4" = 1'-0"

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RCP GENERAL NOTES

1. ALL CEILING HEIGHTS TO BE ATTACHED TO BOTTOM OF STRUCTURE, UNO.
2. ALL CEILINGS TO BE GYP 1 UNO.
3. DRYWALL CEILINGS AND SOFFITS TO BE PAINTED PER FINISH LEGEND UNO.
4. SEE ELECTRICAL DRAWINGS FOR THE LOCATIONS OF CEILING MOUNTED SMOKE DETECTORS, SPEAKERS, NURSE CALL DOME LIGHTS, EXIT SIGNAGE, FIRE ALARM DEVICES, WALL MOUNTED EXIT LIGHTS, ETC.
5. LIGHTING FIXTURES ARE DIMENSIONED TO CENTER OF FIXTURE, UNLESS OTHERWISE NOTED.
6. SINGLE FIXTURES TO BE CENTERED IN ROOM, UNO.
7. IF LOCATION DIMENSIONS ARE NOT INDICATED, FINAL POSITION OF ANY/ALL EXPOSED ELEMENTS AND DEVICES SHALL BE COORDINATED WITH ARCHITECT.
8. LOCATE ACCESS PANELS AS INDICATED ON THE DRAWINGS. THE CONTRACTOR SHALL VERIFY THAT ACCESS PANELS OF TYPE SPECIFIED ARE INSTALLED IN NON-GRID TYPE CEILINGS WHERE SERVICE OR ADJUSTMENT TO MECHANICAL, PLUMBING, OR ELECTRICAL ITEMS MAY BE REQUIRED. LOCATE IN ACCORDANCE WITH APPLICABLE CODES. FIELD VERIFY LOCATION OF ACCESS PANELS AND FINAL LOCATION SHALL BE COORDINATED WITH ARCHITECT PRIOR TO INSTALL.
9. VERIFY THAT CEILING AND ABOVE-CEILING ELEMENTS FIT IN PLENUM AS INDICATED BEFORE PROCEEDING WITH FRAMING CEILING. NOTIFY ARCHITECT IF RELOCATION IS REQUIRED OR IF SHIFTING OF GRID OR OTHER ELEMENT ARE NECESSARY.
10. PROVIDE UNDERCABINET LIGHTING CONTINUOUS ACROSS ENTIRE LENGTH OF ELEMENT AND WIRED THROUGH THE SIDE OF THE FIXTURES, UNLESS OTHERWISE NOTED.
11. REFER TO MOUNTING DIAGRAMS AND ELEVATIONS FOR LOCATION OF SWITCHES, DIMMERS, THERMOSTATS AND OUTLETS.
12. ALL DEVICES LOCATED IN GYPSUM BOARD TO BE WHITE. DEVICE COVERPLATE TO MATCH.
13. GANG SWITCHES UNDER A SINGLE COVERPLATE. SWITCHES THAT CANNOT BE GANGED TOGETHER SHALL BE LOCATED AS CLOSE TOGETHER AS POSSIBLE AND MOUNTED AT THE SAME HEIGHT.
14. THE CONTRACTOR SHALL COMPARE THIS REFLECTED CEILING PLAN WITH ELECTRICAL LIGHTING PLANS, MECHANICAL SUPPLY, RETURN, AND EXHAUST PLANS. THE CONTRACTOR SHALL REPORT ANY OMISSIONS OR INCONSISTENCIES TO THE ARCHITECT.
15. COORDINATE GYPSUM BOARD FURR DOWN HEIGHTS FOR UPPER AND FULL HEIGHT CABINETS WITH INTERIOR ELEVATIONS.
16. UNLESS NOTED OTHERWISE, BUILDING IS TO BE "FULLY SPRINKLERED" PER NFPA 13.
17. 18" MINIMUM VERTICAL CLEARANCE SHALL BE MAINTAINED BETWEEN THE BOTTOM OF EXTENDED SPRINKLER HEADS AND THE TOP OF ANY FILES, SHELVING, LOCKERS, ETC.
18. FOR FURTHER DETAIL & DIMENSIONS SEE FLOOR PLANS AND CEILING DETAILS.
19. SPRINKLERS NOT SHOWN, REFERENCE FIRE PROTECTION DRAWINGS.
20. CONTRACTOR TO ENSURE ALL CEILING PENETRATIONS CREATE AN AIR TIGHT SEAL.

RCP LEGEND

CEILING TYPES

GYP — GYPSUM BOARD CEILING

GYP 1 TYPICAL
GYP 2 MOISTURE RESISTANT

CEILING TYPE TAG

XXX-X — CEILING MATERIAL

MECHANICAL SYMBOLS

SUPPLY AIR CEILING DIFFUSER REFER TO MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION

BATHROOM FAN

LIGHT FIXTURE SYMBOLS

WALL SCONCE

SURFACE MOUNTED LIGHT

EXIT LIGHTS

NEW CEILING MOUNTED CAMERA

NEW EMERGENCY STROBE/SPEAKER

NEW OCCUPANCY SENSOR

CEILING FAN W/ LIGHT

KITCHEN PENDANT LIGHT

ARCHITECTURAL SYMBOLS

ATTIC ACCESS DOOR. NOMINAL 2'x4' WITH GASKETING.

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Project Information:

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MHA Parkside Housing

520 EAST CASTLE STREET,
MURFREESBORO, TN 37130

Consultant:

#	ISSUE	DATE
1	REVISION 01 - CITY COMMENTS RESPONSE	08.23.2022

Issue Date:	04/04/2022
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PA	G. TAYLOR
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Checked By:	J. BRADLEY

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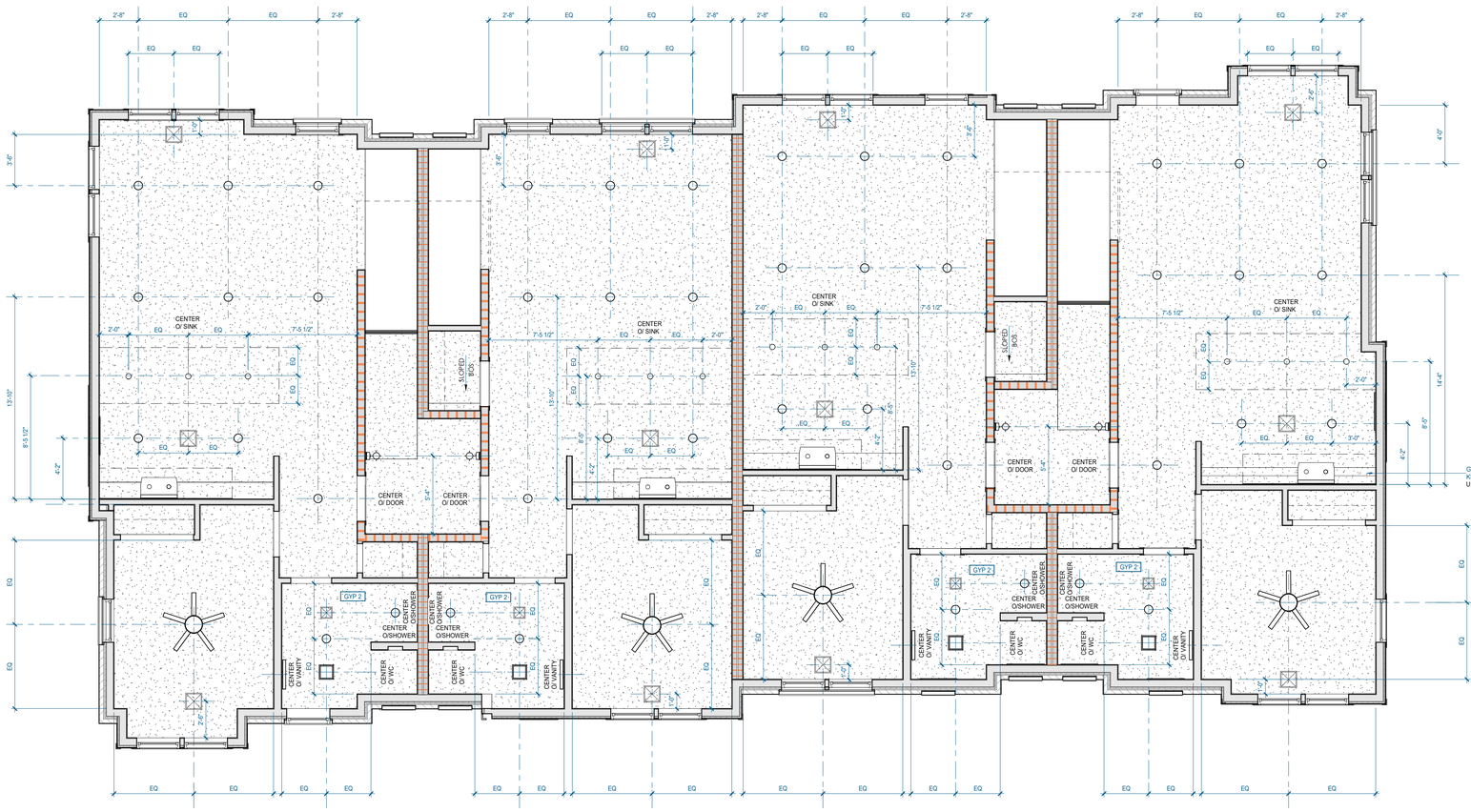
A-135

BUILDING C - LEVEL 01 REFLECTED CEILING PLAN



A24 BUILDING C - LEVEL 2 RCP
1/4" = 1'-0"

11/15/2023 2:52:38 PM

RCP GENERAL NOTES

1. ALL CEILING HEIGHTS TO BE ATTACHED TO BOTTOM OF STRUCTURE, UNO.
2. ALL CEILINGS TO BE GYP 1 UNO.
3. DRYWALL CEILINGS AND SOFFITS TO BE PAINTED PER FINISH LEGEND UNO.
4. SEE ELECTRICAL DRAWINGS FOR THE LOCATIONS OF CEILING MOUNTED SMOKE DETECTORS, SPEAKERS, NURSE CALL DOME LIGHTS, EXIT SIGNAGE, FIRE ALARM DEVICES, WALL MOUNTED EXIT LIGHTS, ETC.
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20. CONTRACTOR TO ENSURE ALL CEILING PENETRATIONS CREATE AN AIR TIGHT SEAL.

RCP LEGEND

CEILING TYPES

GYP — GYPSUM BOARD CEILING
GYP 1 TYPICAL
GYP 2 MOISTURE RESISTANT

CEILING TYPE TAG

XXX-X — CEILING MATERIAL

MECHANICAL SYMBOLS

SUPPLY AIR CEILING DIFFUSER
REFER TO MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION

BATHROOM FAN

LIGHT FIXTURE SYMBOLS

WALL SCONCE
SURFACE MOUNTED LIGHT
EXIT LIGHTS
NEW CEILING MOUNTED CAMERA
NEW EMERGENCY STROBE/SPEAKER
NEW OCCUPANCY SENSOR
CEILING FAN W/ LIGHT
KITCHEN PENDANT LIGHT

ARCHITECTURAL SYMBOLS

ATTIC ACCESS DOOR. NOMINAL 2'x4' WITH GASKETING.

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615.893.4084

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800 S. GAY ST., STE 1750
KNOXVILLE TN, 37929
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MECHANICAL & PLUMBING ENGINEER:
FACILITY SYSTEMS CONSULTANTS
713 S. CENTRAL ST., STE 101
KNOXVILLE TN, 37902
865.246.0164

ELECTRICAL ENGINEER:
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713 S. CENTRAL ST., STE 101
KNOXVILLE TN, 37902
865.246.0164

Project Information:

21026

MHA Parkside Housing
520 EAST CASTLE STREET,
MURFREESBORO, TN 37130

Seal:

Consultant:

#	ISSUE	DATE

Issue Date:	04/04/2022
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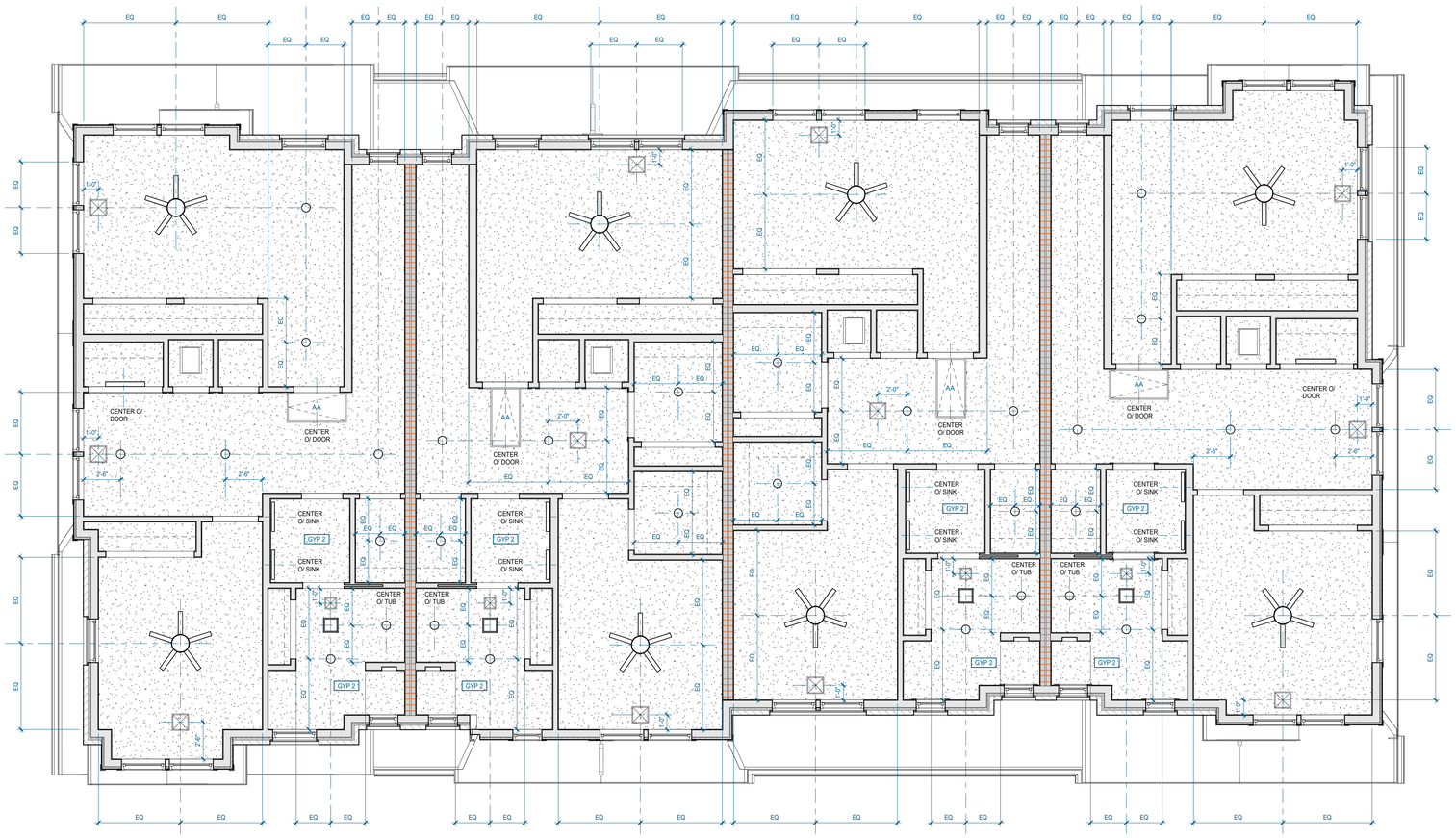
PM	M. BUTLER
PA	G. TAYLOR
Drawn By:	Author
Checked By:	J. BRADLEY

Sheet Description:

A-136

BUILDING C - LEVEL 02
REFLECTED CEILING PLAN



A24 BUILDING C - LEVEL 3 RCP
1/4" = 1'-0"

RCP GENERAL NOTES

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RCP LEGEND

CEILING TYPES

GYP — GYPSUM BOARD CEILING
GYP 1 TYPICAL
GYP 2 MOISTURE RESISTANT

CEILING TYPE TAG

XXX-X — CEILING MATERIAL

MECHANICAL SYMBOLS

SUPPLY AIR CEILING DIFFUSER
REFER TO MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION

BATHROOM FAN

LIGHT FIXTURE SYMBOLS

WALL SCONCE
SURFACE MOUNTED LIGHT
EXIT LIGHTS
NEW CEILING MOUNTED CAMERA
NEW EMERGENCY STROBE/SPEAKER
NEW OCCUPANCY SENSOR
CEILING FAN W/ LIGHT
KITCHEN PENDANT LIGHT

ARCHITECTURAL SYMBOLS

ATTIC ACCESS DOOR, NOMINAL 2'x4' WITH GASKETING.

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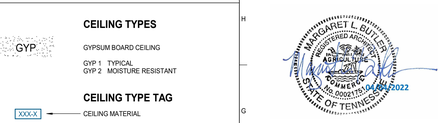
Project Information:

21026

MHA Parkside Housing

520 EAST CASTLE STREET,
MURFREESBORO, TN 37130

Seal:



Consultant:

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PM	M. BUTLER
PA	G. TAYLOR
Drawn By:	Author
Checked By:	J. BRADLEY

Sheet Description:

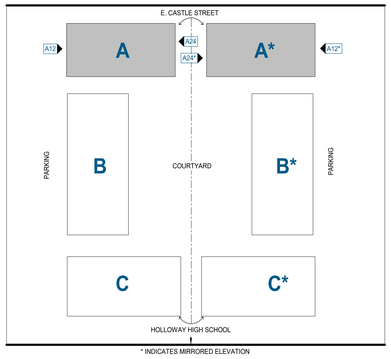
A-137

BUILDING C - LEVEL 03
REFLECTED CEILING
PLAN

11/15/2023 2:52:42 PM

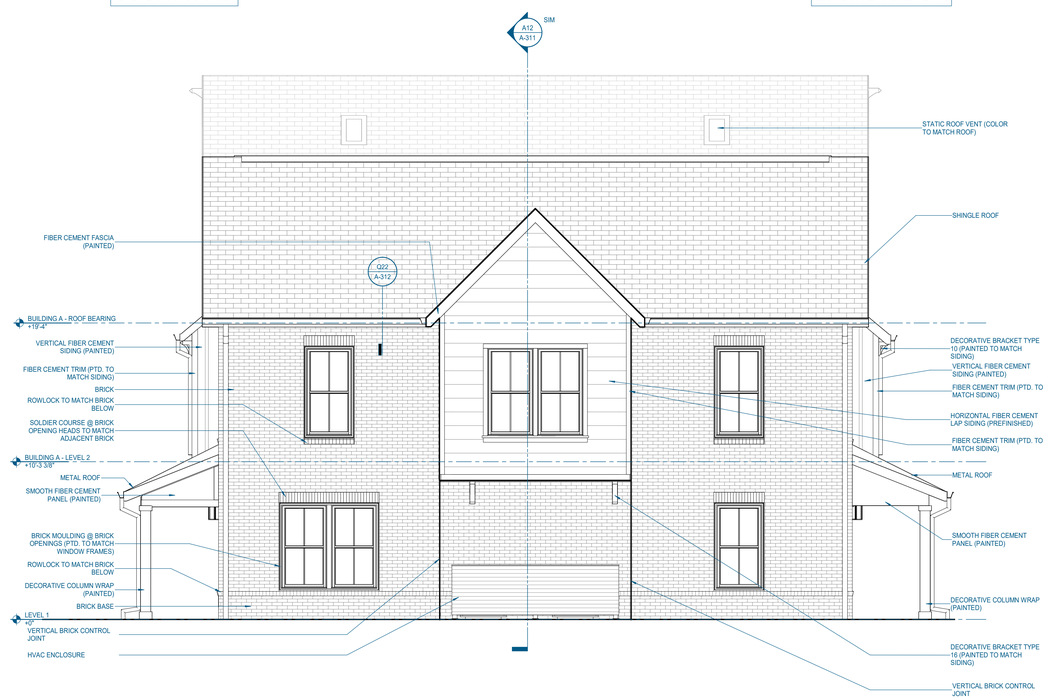
GENERAL NOTES - EXTERIOR ELEVATIONS

1. REFER TO SHEET A-001 FOR ADDITIONAL GENERAL NOTES.
2. ALL GUTTERS AND DOWNSPOUTS TO BE BLACK PER MANUFACTURER'S STANDARD COLORS.
3. REFER TO SHEET A301 FOR TYPICAL EXTERIOR DETAILS.
4. REFER TO SPECIFICATIONS FOR DECORATIVE BRACKET TYPES



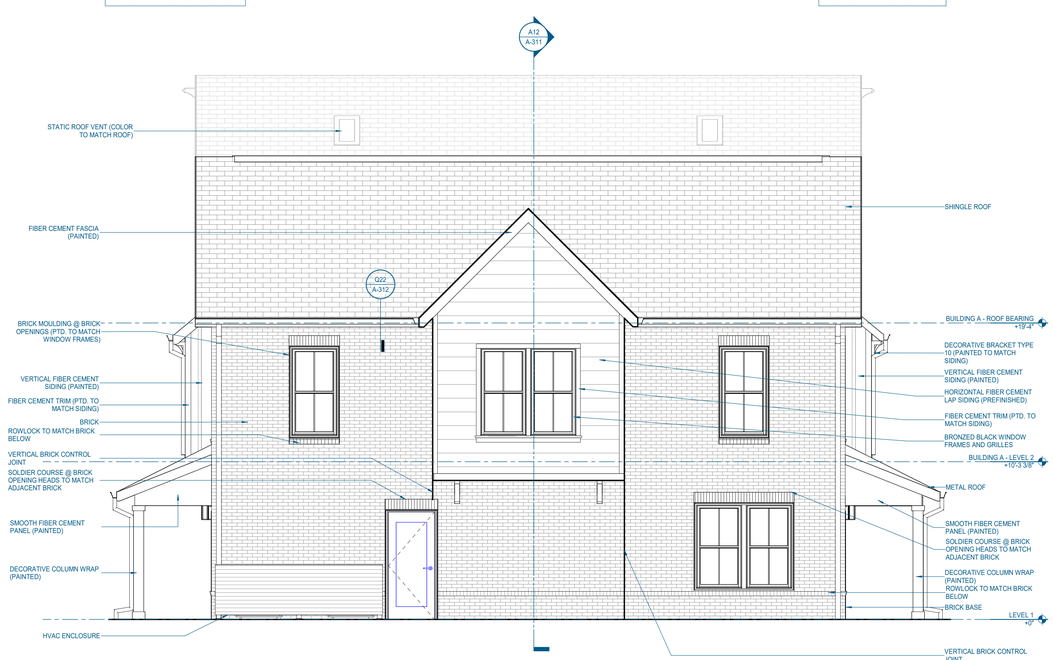
* INDICATES MIRRORED ELEVATION

COURTYARD — E. CASTLE ST.



A24 BUILDING A - EAST ELEVATION - FACING INTERIOR PATHWAY (A* WEST ELEVATION SIM-MIRRORED)
1/4" = 1'-0"

E. CASTLE ST. — COURTYARD



A12 BUILDING A - WEST ELEVATION - FACING PARKING LOT (A* EAST ELEVATION SIM-MIRRORED)
1/4" = 1'-0"

11/15/2023 2:52:45 PM

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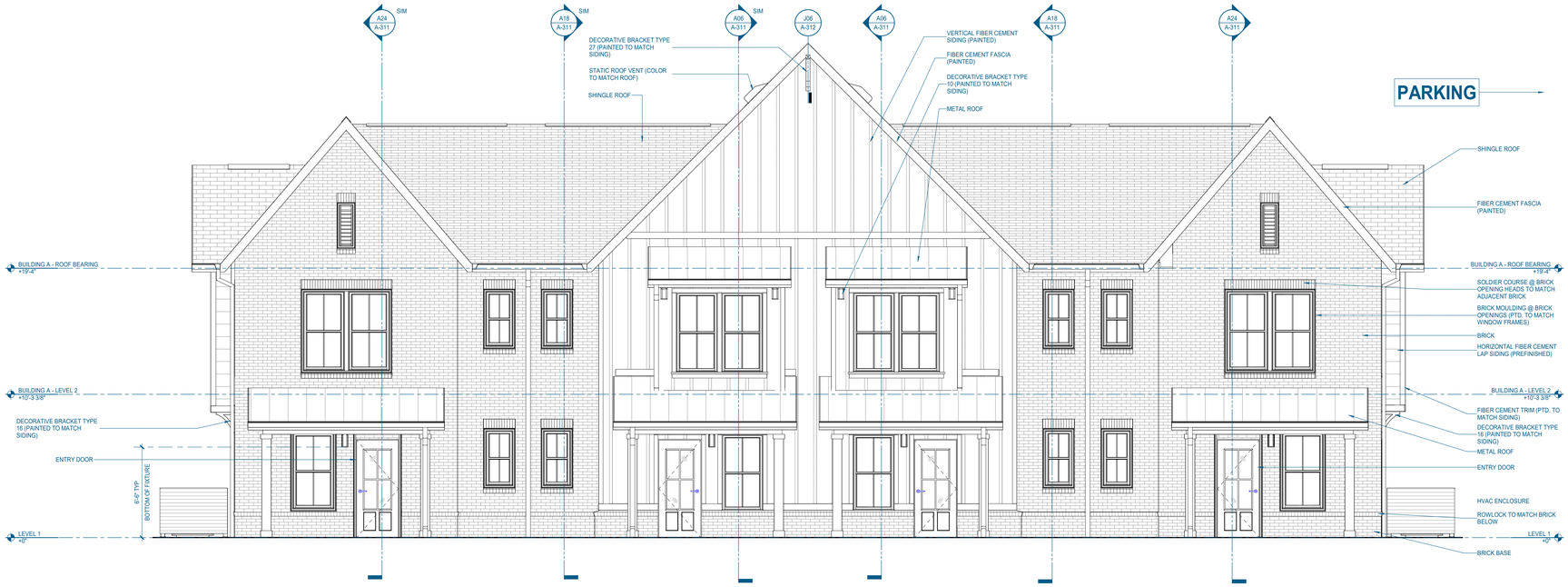
PIC	M. BUTLER
PM	M. BUTLER
PA	G. TAYLOR
Drawn By:	G. TAYLOR
Checked By:	J. BRADLEY

Sheet Description:

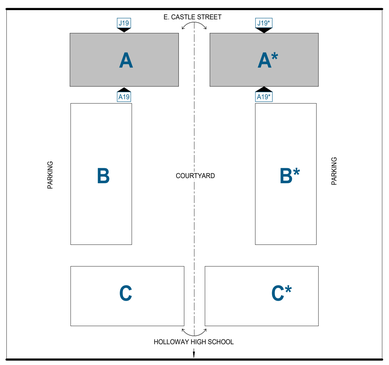
A-211

BUILDING A - ELEVATIONS



J19 BUILDING A - NORTH ELEVATION - FACING E. CASTLE ST. (A* SIM-MIRRORED)
1/4" = 1'-0"

A19 BUILDING A - SOUTH ELEVATION - FACING COURTYARD (A* SIM-MIRRORED)
1/4" = 1'-0"



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PIC	M. BUTLER
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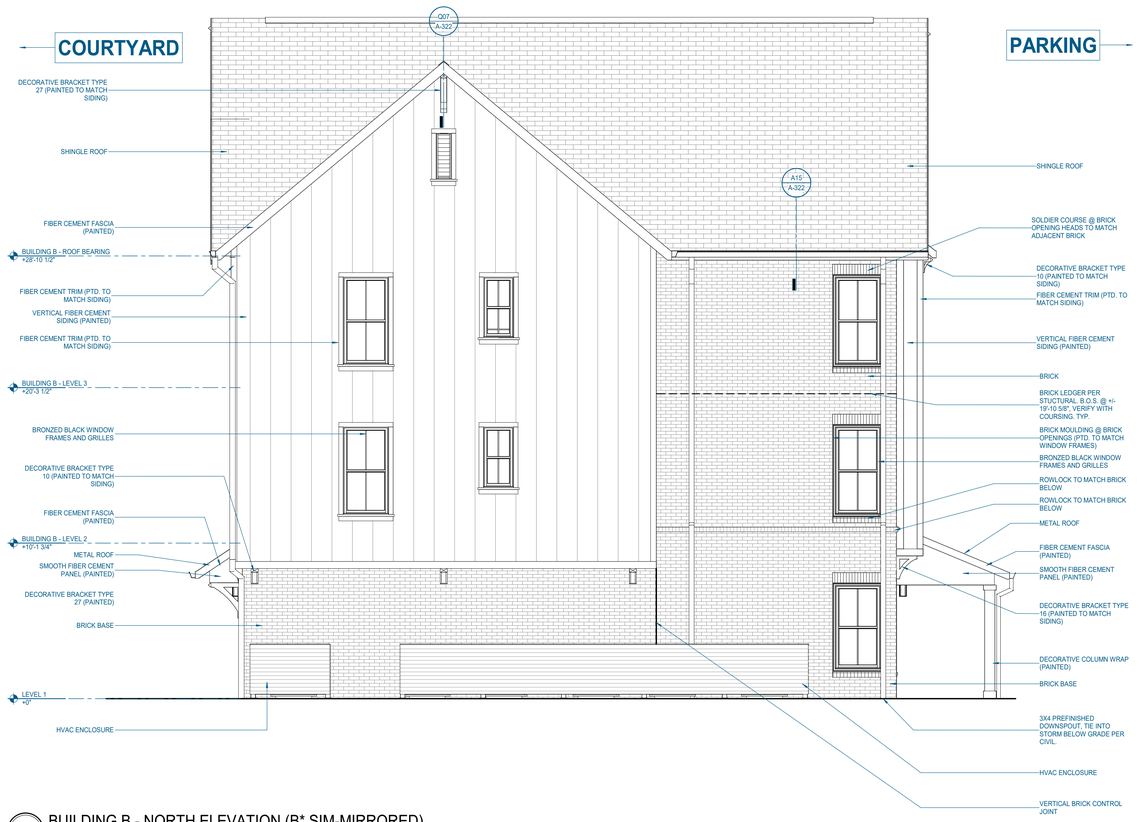
PA	G. TAYLOR
Drawn By:	G. TAYLOR
Checked By:	J. BRADLEY

Sheet Description:

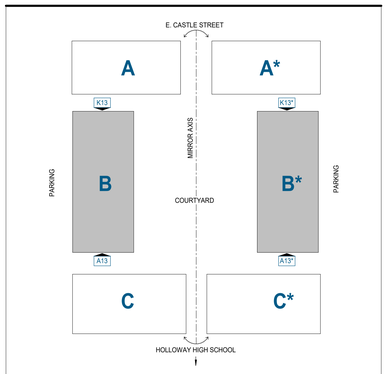
A-212

BUILDING A -
ELEVATIONS CONT.

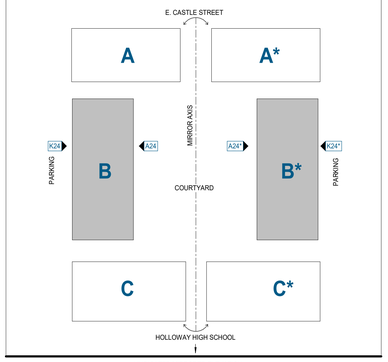


K13 BUILDING B - NORTH ELEVATION (B* SIM-MIRRORED)
1/4" = 1'-0"

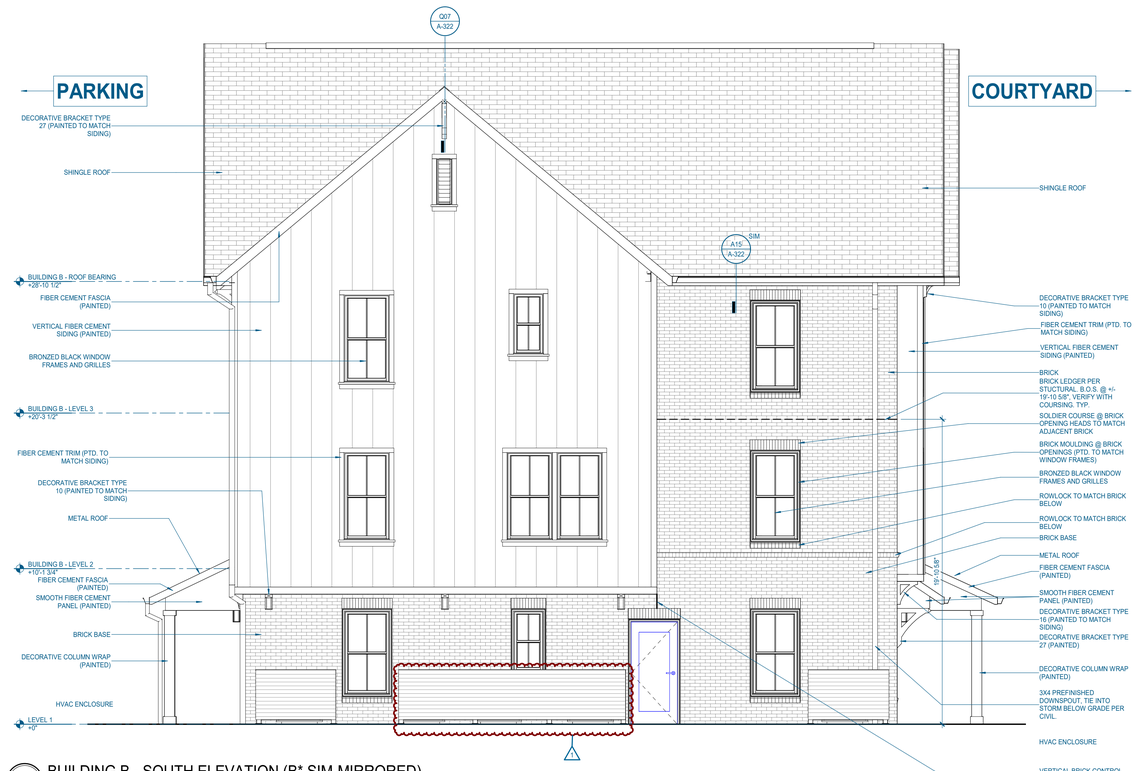
KEY PLAN FOR SHEET A-221



KEY PLAN FOR SHEET A-222



* INDICATED MIRRORED ELEVATION



A13 BUILDING B - SOUTH ELEVATION (B* SIM-MIRRORED)
1/4" = 1'-0"

11/15/2023 2:52:51 PM

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t.865.544.2000
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HUDDLESTON-STEELE ENGINEERING INC.
2112 N.W. BROAD ST.
MURFREESBORO, TN 37129
615.893.4084

LANDSCAPE ARCHITECT:

RAGAN SMITH
100 E. VINE ST., STE 200
MURFREESBORO, TN 37130
615.546.6050

STRUCTURAL ENGINEER:

HAINES STRUCTURAL GROUP
800 S. GAY ST., STE 1750
KNOXVILLE TN, 37929
865.329.9920

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713 S. CENTRAL ST., STE 101
KNOXVILLE TN, 37902
865.246.0164

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713 S. CENTRAL ST., STE 101
KNOXVILLE TN, 37902
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Project Information:

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MHA Parkside Housing

520 EAST CASTLE STREET,
MURFREESBORO, TN 37130

Consultant:

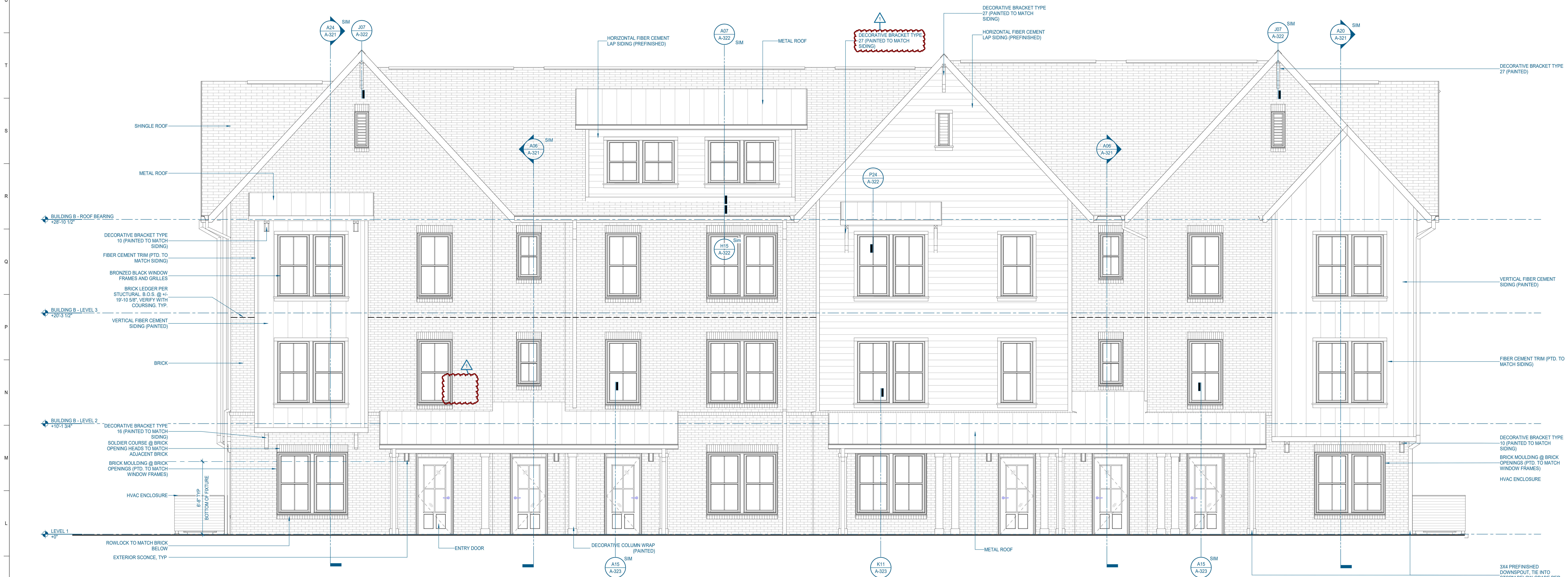
#	ISSUE	DATE
1	REVISION 01 - CITY COMMENTS RESPONSE	08.23.2022

Issue Date:	04/04/2022
PIC	M. BUTLER
PM	M. BUTLER
PA	G. TAYLOR
Drawn By:	L. McCARTY
Checked By:	J. BRADLEY

Sheet Description:

A-221

BUILDING B - ELEVATIONS



1 BUILDING B - WEST ELEVATION - FACING PARKING LOT (B* EAST ELEVATION SIM-MIRRORED)
1/4" = 1'-0"

A24 BUILDING B - EAST ELEVATION - FACING COURTYARD (B* WEST ELEVATION SIM-MIRRORED)
1/4" = 1'-0"

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HUDDLESTON-STEELE ENGINEERING INC.
2112 N.W. BROAD ST.
MURFREESBORO, TN 37129
615.893.4084

LANDSCAPE ARCHITECT:
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100 E. VINE ST., STE 200
MURFREESBORO, TN 37130
615.546.6050

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KNOXVILLE TN, 37929
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713 S. CENTRAL ST., STE 101
KNOXVILLE TN, 37902
865.246.0164

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MARGARET L. BUTLER REGISTERED ARCHITECT STATE OF TENNESSEE 08/23/22

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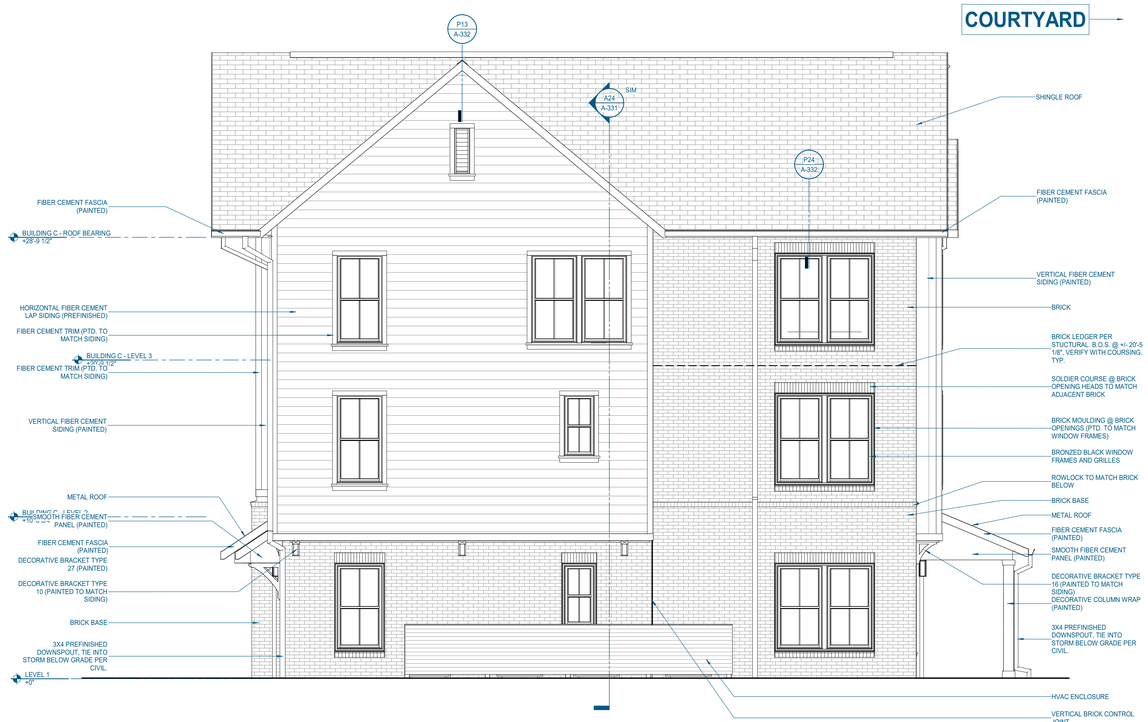
Sheet Description:

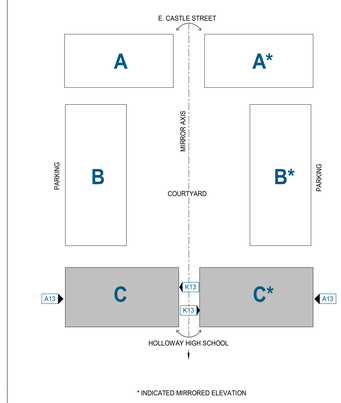
A-222

BUILDING B - ELEVATIONS CONT.



K13 BUILDING C - EAST ELEVATION - FACING INTERNAL PATHWAY (C* WEST ELEVATION SIM-MIRRORED)
1/4" = 1'-0"

A13 BUILDING C - WEST ELEVATION - FACING PARKING LOT (C* EAST ELEVATION SIM-MIRRORED)
1/4" = 1'-0"



* INDICATED MIRRORED ELEVATION

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2112 N.W. BROAD ST.
MURFREESBORO, TN 37129
615.893.4084

LANDSCAPE ARCHITECT:

RAGAN SMITH
100 E. VINE ST., STE 200
MURFREESBORO, TN 37130
615.546.6050

STRUCTURAL ENGINEER:

HAINES STRUCTURAL GROUP
800 S. GAY ST., STE 1750
KNOXVILLE TN, 37929
865.329.9920

MECHANICAL & PLUMBING ENGINEER:

FACILITY SYSTEMS CONSULTANTS
713 S. CENTRAL ST., STE 101
KNOXVILLE TN, 37902
865.246.0164

ELECTRICAL ENGINEER:

FACILITY SYSTEMS CONSULTANTS
713 S. CENTRAL ST., STE 101
KNOXVILLE TN, 37902
865.246.0164

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Sheet Description:

A-231

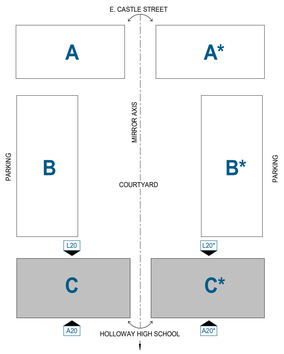
BUILDING C - ELEVATIONS

L20 BUILDING C - COURTYARD ELEVATION (NORTH)

1/4" = 1'-0"

A20 BUILDING C - REAR ELEVATION (SOUTH)

1/4" = 1'-0"



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HUDDLESTON-STEELE ENGINEERING INC.
2112 N.W. BROAD ST.
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615.893.4084

LANDSCAPE ARCHITECT:

RAGAN SMITH
100 E. VINE ST., STE 200
MURFREESBORO, TN 37130
615.546.6050

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HAINES STRUCTURAL GROUP
800 S. GAY ST., STE 1750
KNOXVILLE TN, 37929
865.329.9920

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FACILITY SYSTEMS CONSULTANTS
713 S. CENTRAL ST., STE 101
KNOXVILLE TN, 37902
865.246.0164

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PA	G. TAYLOR
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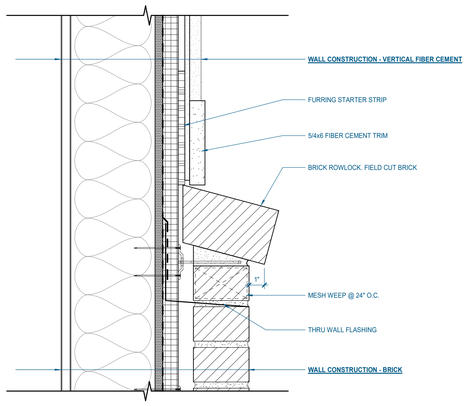
Checked By:	J. BRADLEY

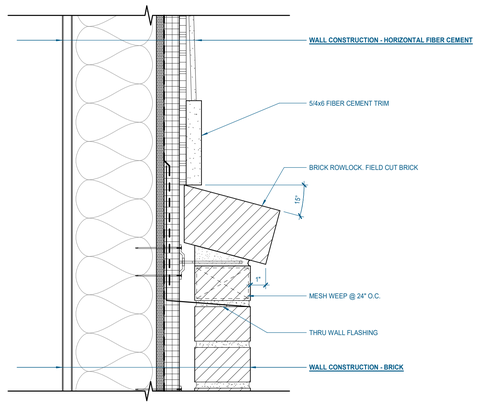
Sheet Description:

A-232

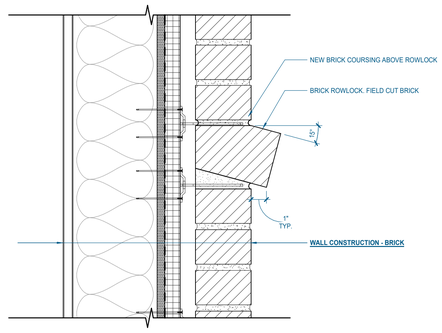
BUILDING C - ELEVATIONS CONT.



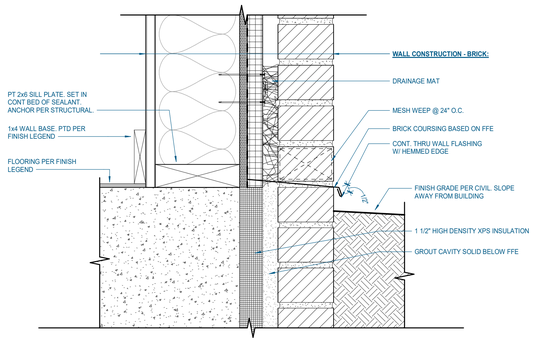
P24 VERTICAL SIDING @ ROWLOCK DETAIL
3" = 1'-0"



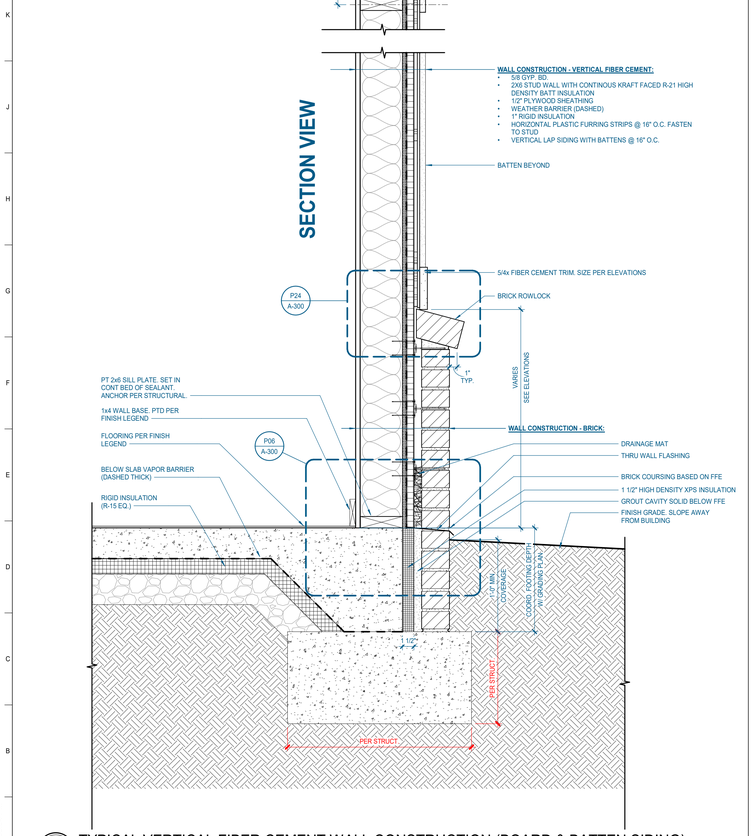
P18 LAP SIDING @ ROWLOCK DETAIL
3" = 1'-0"



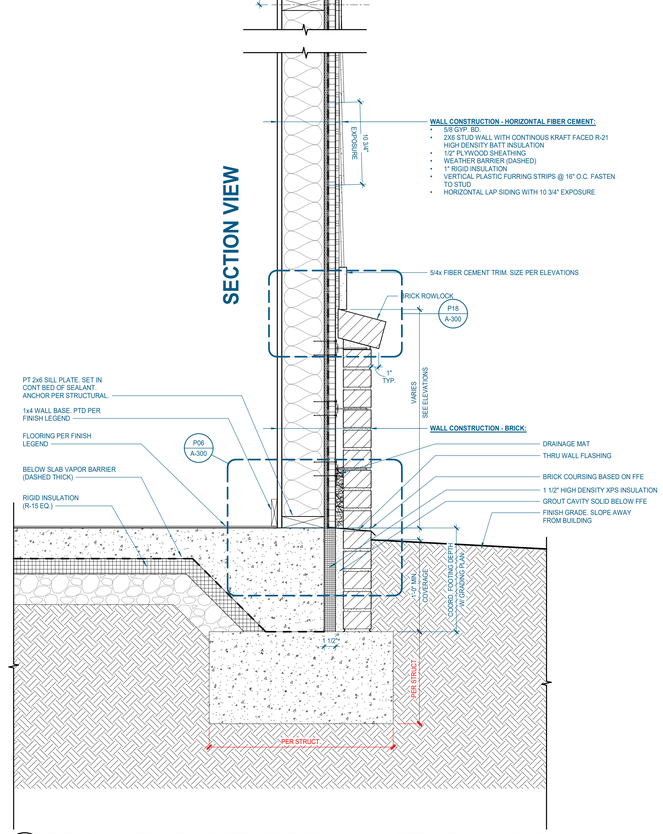
P12 BRICK ROWLOCK DETAIL
3" = 1'-0"



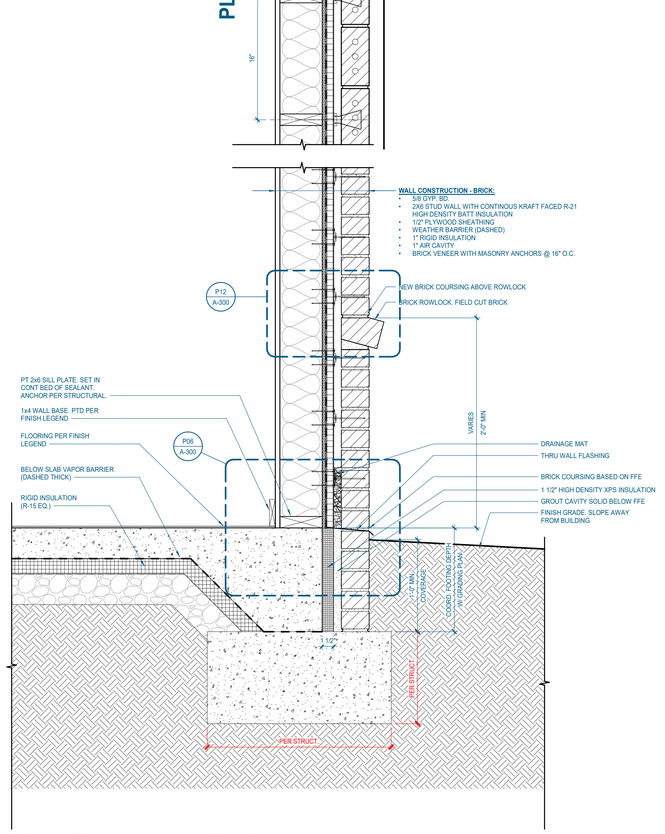
P06 TYPICAL FOUNDATION DETAIL
3" = 1'-0"



A24 TYPICAL VERTICAL FIBER CEMENT WALL CONSTRUCTION (BOARD & BATTEN SIDING)
1 1/2" = 1'-0"



A16 TYPICAL HORIZONTAL FIBER CEMENT WALL CONSTRUCTION (LAP SIDING)
1 1/2" = 1'-0"



A08 TYPICAL BRICK WALL CONSTRUCTION
1 1/2" = 1'-0"

11/15/2023 2:53:04 PM

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615.893.4084

LANDSCAPE ARCHITECT:

RAGAN SMITH
100 E. VINE ST., STE 200
MURFREESBORO, TN 37130
615.546.6050

STRUCTURAL ENGINEER:

HAINES STRUCTURAL GROUP
800 S. GAY ST., STE 1750
KNOXVILLE TN, 37929
865.329.9920

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KNOXVILLE TN, 37902
865.246.0164

ELECTRICAL ENGINEER:

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713 S. CENTRAL ST., STE 101
KNOXVILLE TN, 37902
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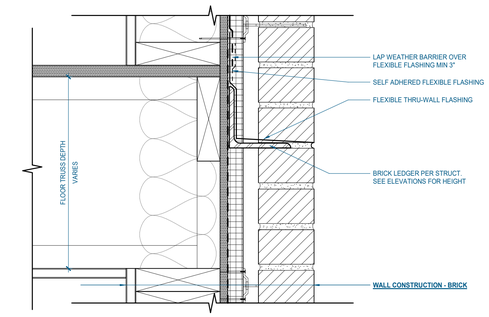
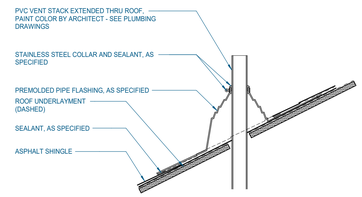
A-300

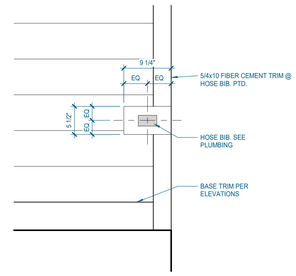
TYPICAL EXT. WALL ASSEMBLIES



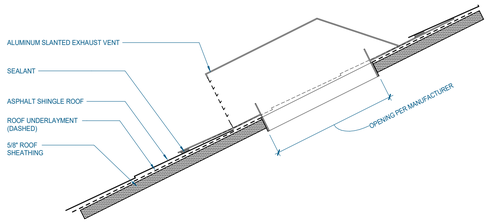
N06 BRICK LEDGER DETAIL
3" = 1'-0"



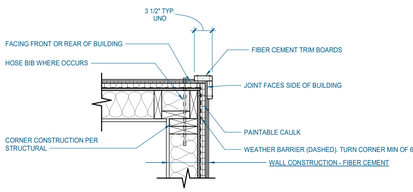
J12 ROOF PENETRATION DETAIL
1 1/2" = 1'-0"



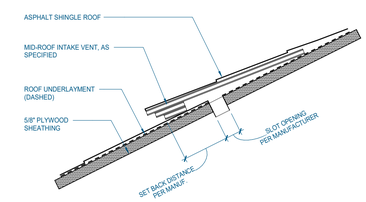
J06 HOSE BIB - ELEVATION DETAIL
1" = 1'-0"



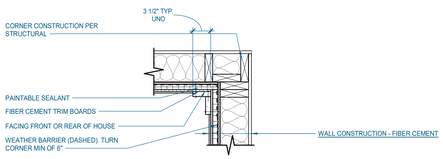
E12 ROOF EXHAUST VENT
3" = 1'-0"



E06 FIBER CEMENT - OUTSIDE CORNERS
1" = 1'-0"



A12 MID ROOF INTAKE VENT
3" = 1'-0"



A06 FIBER CEMENT - INSIDE CORNERS
1" = 1'-0"

11/15/2023 2:53:05 PM

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HUDDLESTON-STEELE ENGINEERING INC.
2112 N.W. BROAD ST.
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KNOXVILLE TN, 37902
865.246.0164

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Checked By:	J. BRADLEY

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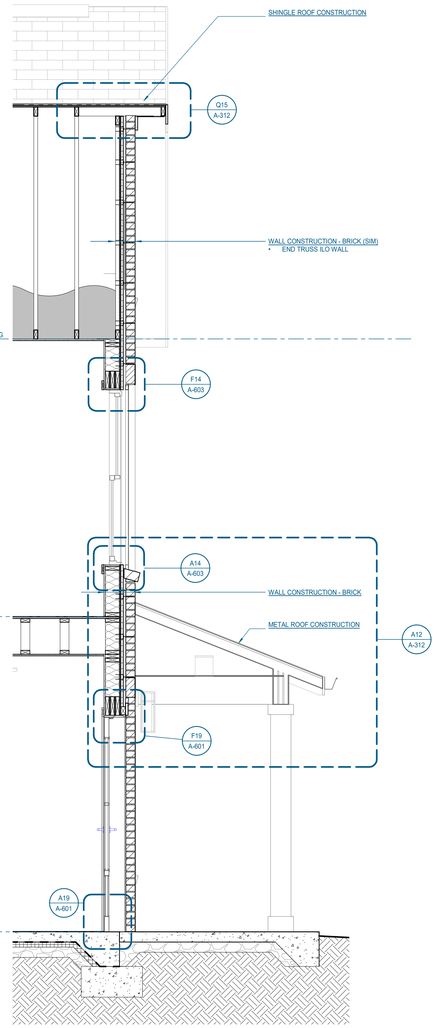
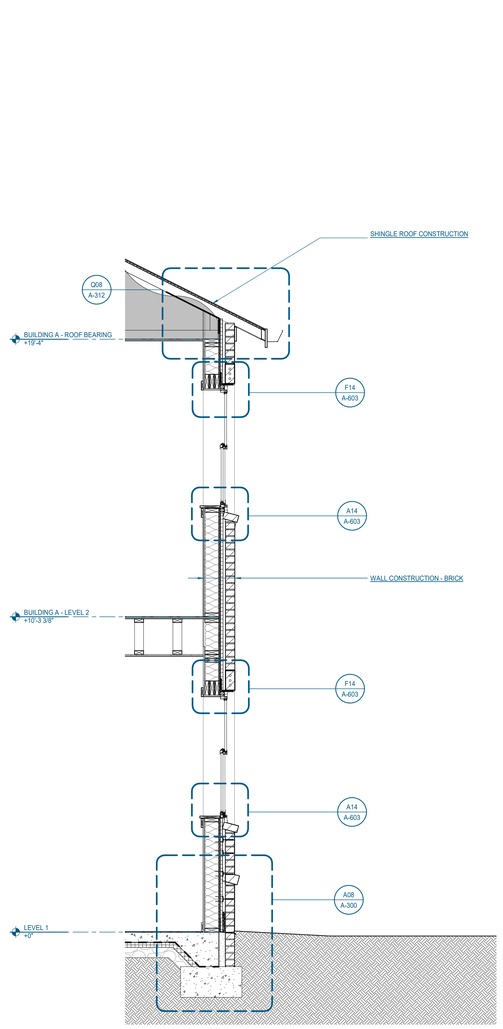
A-301

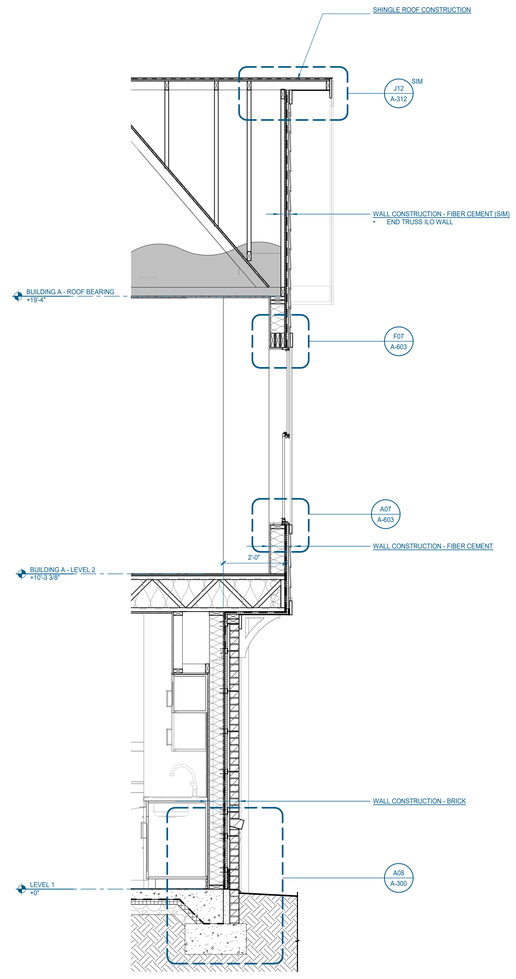
TYP. EXTERIOR DETAILS



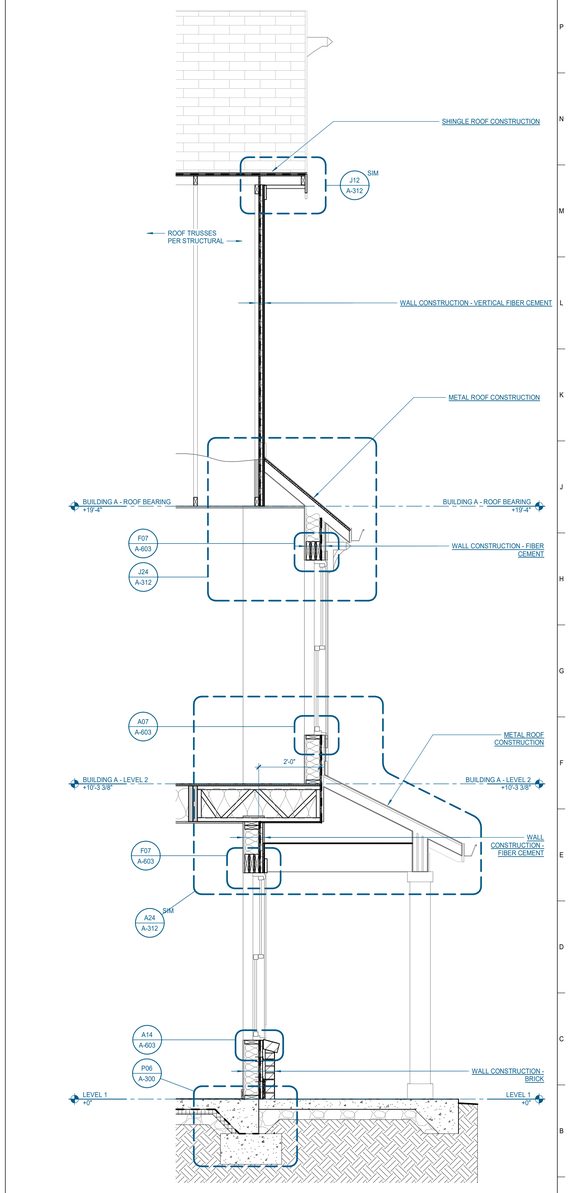
A24 Section 18
1/2" = 1'-0"



A18 Section 17
1/2" = 1'-0"



A12 Section 4
1/2" = 1'-0"



A06 Section 1
1/2" = 1'-0"

11/15/2023 2:53:08 PM

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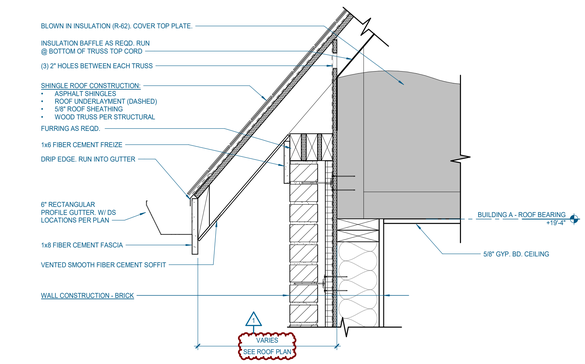
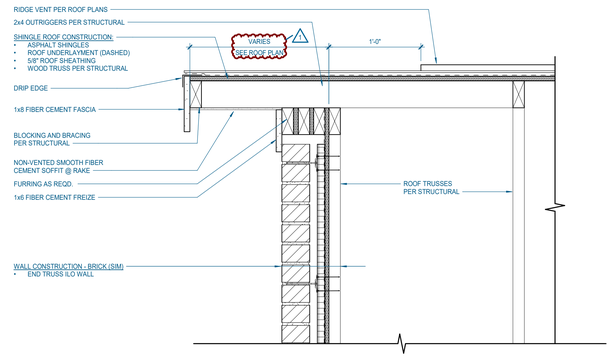
A-311

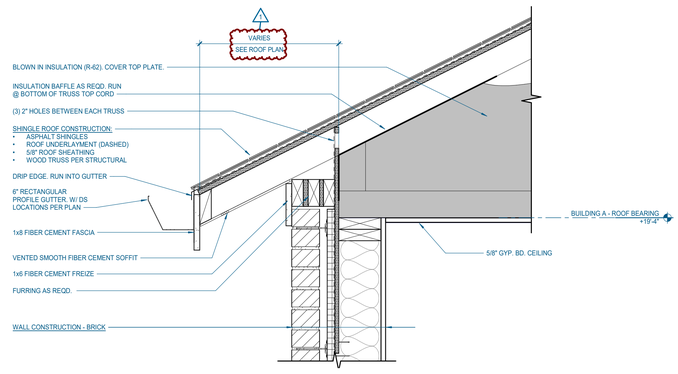
BUILDING A - EXTERIOR WALL SECTIONS



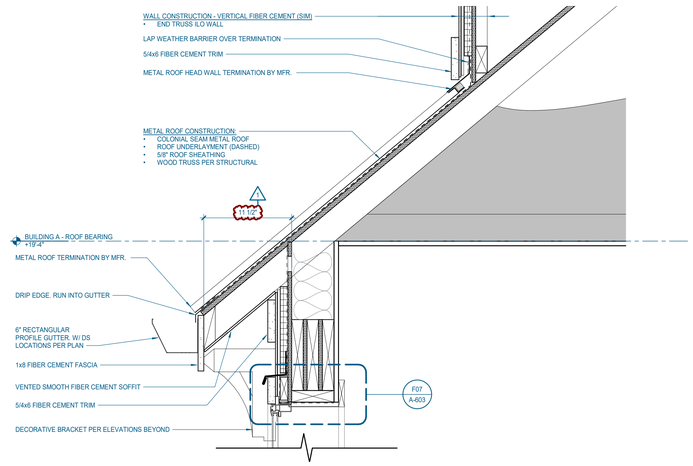
Q22 BUILDING A - WEST/EAST ROOF SECTION DETAIL
1 1/2" = 1'-0"



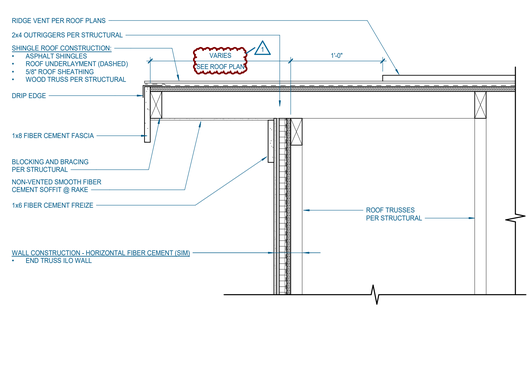
Q15 BUILDING A - SOUTH ROOF SECTION DETAIL @ RAKE @ BRICK
1 1/2" = 1'-0"



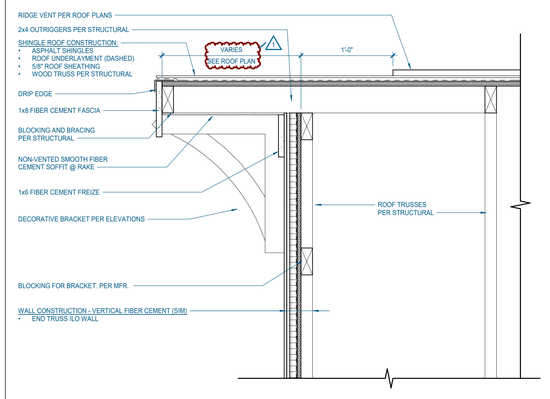
Q08 BUILDING A - NORTH/SOUTH ROOF SECTION DETAIL
1 1/2" = 1'-0"



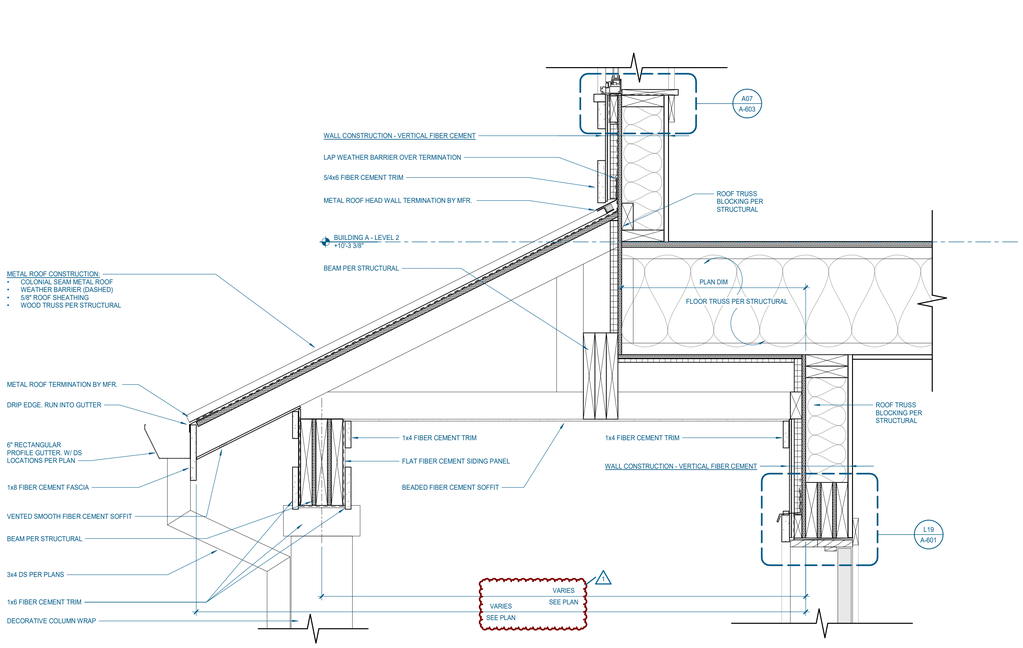
J24 BUILDING A - ROOF SECTION @ BAY WINDOW
1 1/2" = 1'-0"



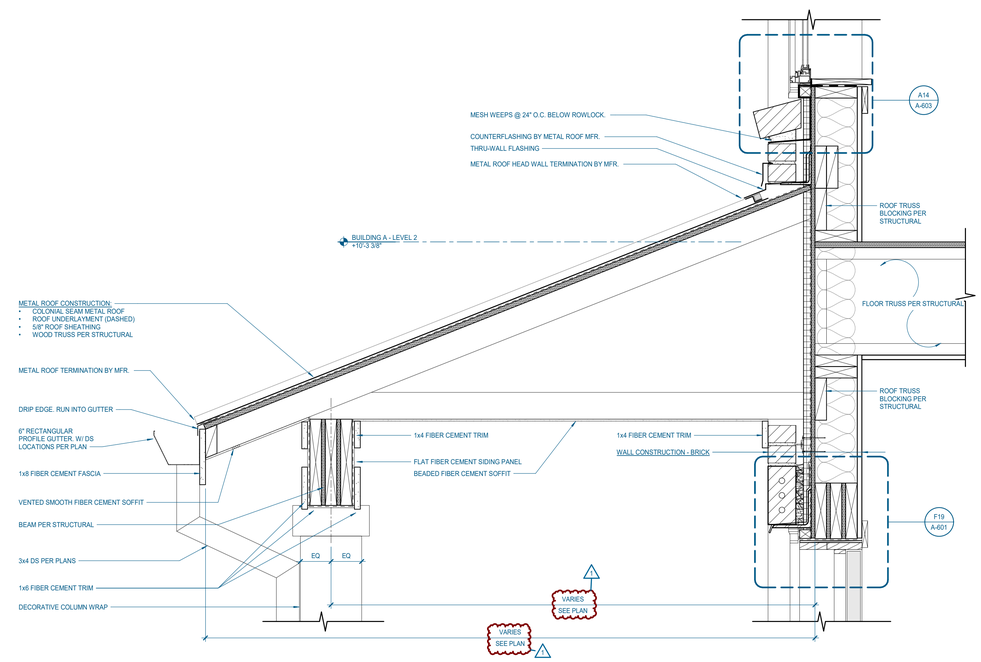
J12 BUILDING A - WEST/EAST ROOF SECTION @ GABLE
1 1/2" = 1'-0"



J06 BUILDING A - SOUTH ROOF SECTION DETAIL @ RAKE @ SIDING
1 1/2" = 1'-0"



A24 BUILDING A - PORCH ROOF SECTION @ SIDING
1 1/2" = 1'-0"



A12 BUILDING A - PORCH ROOF SECTION @ BRICK
1 1/2" = 1'-0"

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550 W. Main St., Suite 300
Knoxville, TN 37902
t 865.544.2000
www.mhminc.com

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HUDDLESTON-STEELE ENGINEERING INC.
2112 N.W. BROAD ST.
MURFREESBORO, TN 37129
615.893.4084

LANDSCAPE ARCHITECT:
RAGAN SMITH
100 E. VINE ST., STE 200
MURFREESBORO, TN 37130
615.546.6050

STRUCTURAL ENGINEER:
HAINES STRUCTURAL GROUP
800 S. GAY ST., STE 1750
KNOXVILLE TN, 37929
865.329.9920

MECHANICAL & PLUMBING ENGINEER:
FACILITY SYSTEMS CONSULTANTS
713 S. CENTRAL ST., STE 101
KNOXVILLE TN, 37902
865.246.0164

ELECTRICAL ENGINEER:
FACILITY SYSTEMS CONSULTANTS
713 S. CENTRAL ST., STE 101
KNOXVILLE TN, 37902
865.246.0164

Project Information:

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MHA Parkside Housing

520 EAST CASTLE STREET,
MURFREESBORO, TN 37130

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#	ISSUE	DATE
1	REVISION 01 - CITY COMMENTS RESPONSE	08.23.2022

Issue Date:	04/04/2022
PIC	M. BUTLER
PM	M. BUTLER
PA	G. TAYLOR
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Checked By:	J. BRADLEY

Sheet Description:

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BUILDING A EXT. DETAILS

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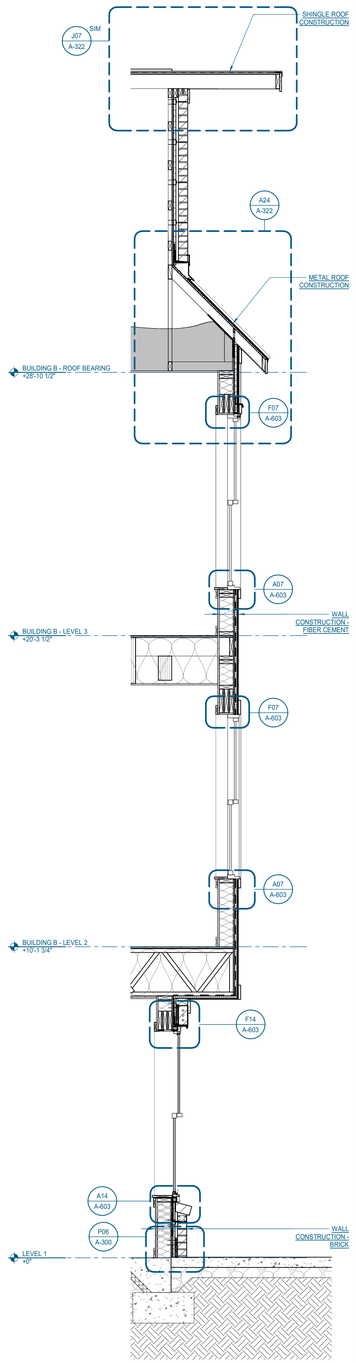
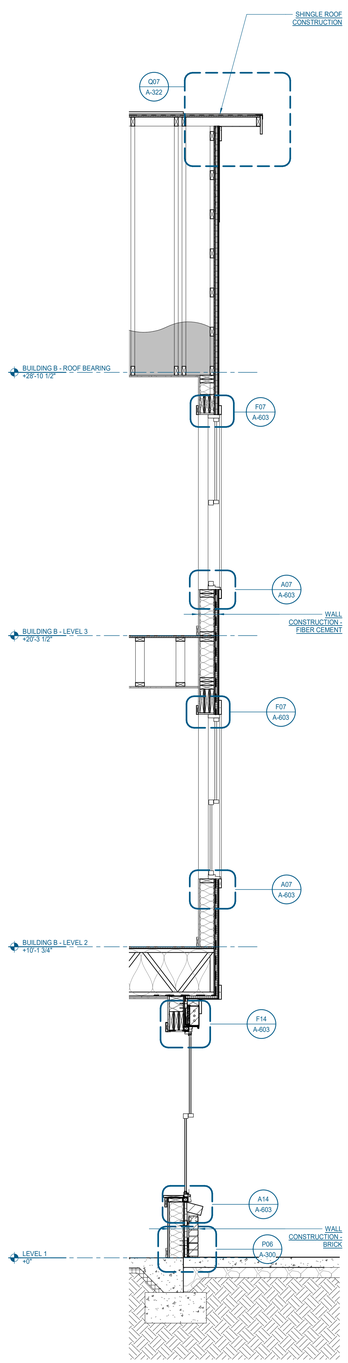
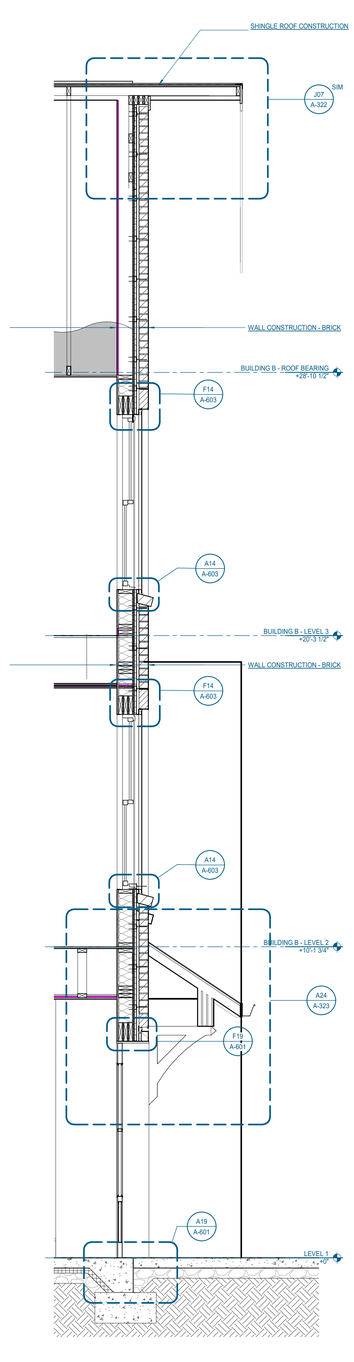


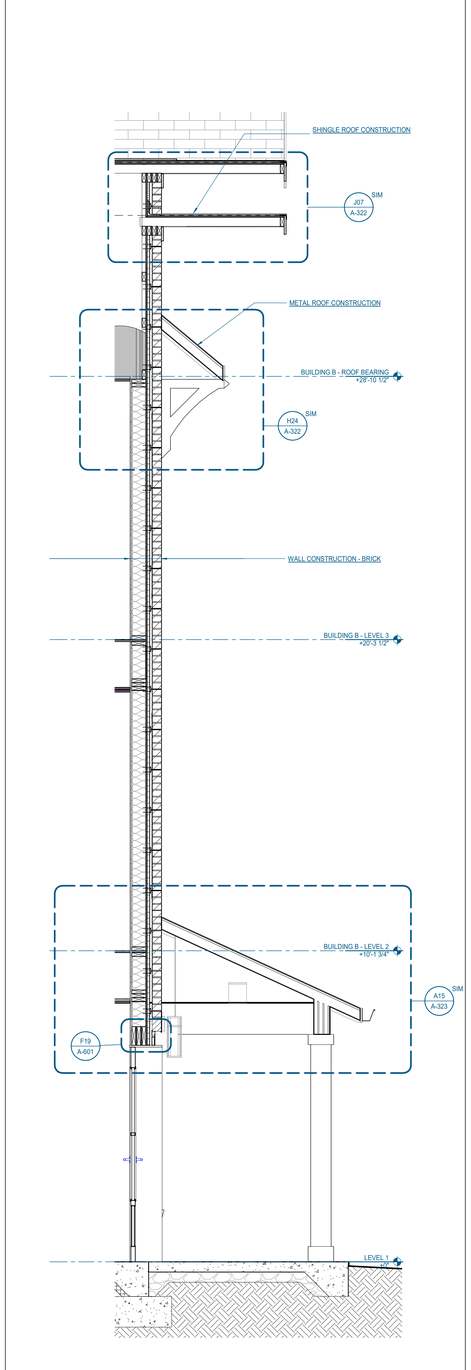
A24 WALL SECTION
1/2" = 1'-0"



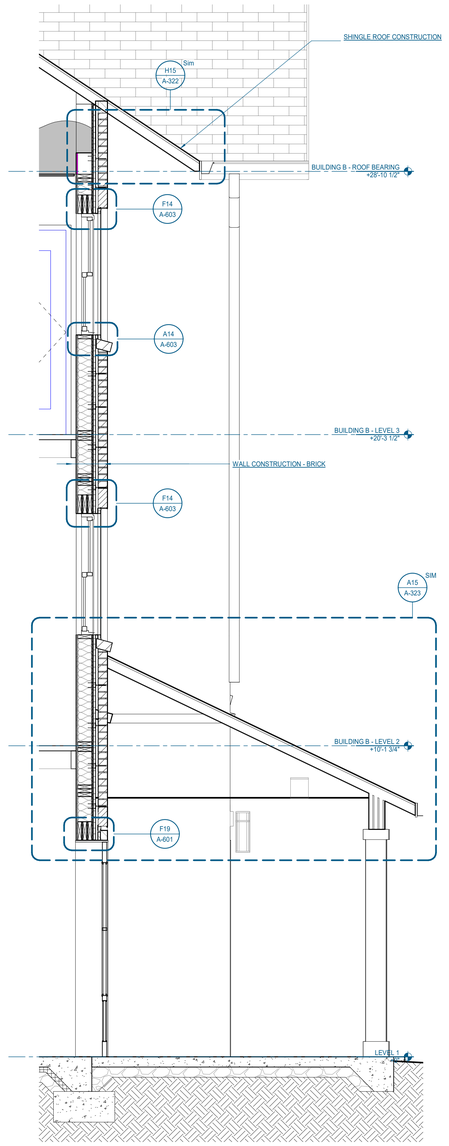
A20 WALL SECTION
1/2" = 1'-0"



A16 WALL SECTION
1/2" = 1'-0"



A11 WALL SECTION
1/2" = 1'-0"



A06 WALL SECTION
1/2" = 1'-0"

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HUDDLESTON-STEELE ENGINEERING INC.
2112 N.W. BROAD ST.
MURFREESBORO, TN 37129
615.893.4084

LANDSCAPE ARCHITECT:

RAGAN SMITH
100 E. VINE ST., STE 200
MURFREESBORO, TN 37130
615.546.6050

STRUCTURAL ENGINEER:

HAINES STRUCTURAL GROUP
800 S. GAY ST., STE 1750
KNOXVILLE TN, 37929
865.329.9920

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FACILITY SYSTEMS CONSULTANTS
713 S. CENTRAL ST., STE 101
KNOXVILLE TN, 37902
865.246.0164

ELECTRICAL ENGINEER:

FACILITY SYSTEMS CONSULTANTS
713 S. CENTRAL ST., STE 101
KNOXVILLE TN, 37902
865.246.0164

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MHA Parkside Housing

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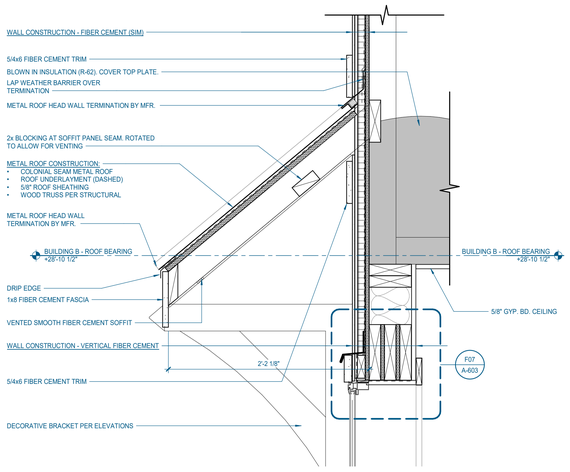
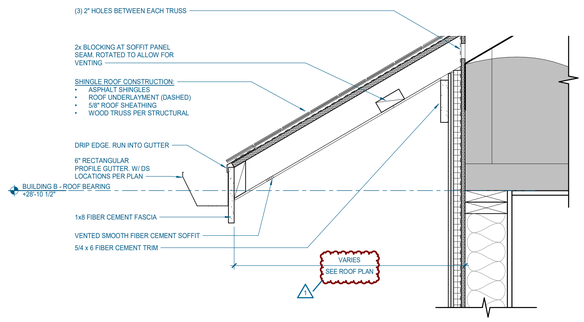
A-321

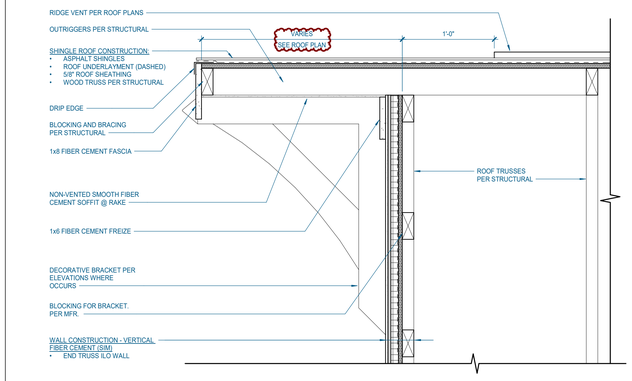
BUILDING B - EXTERIOR WALL SECTIONS



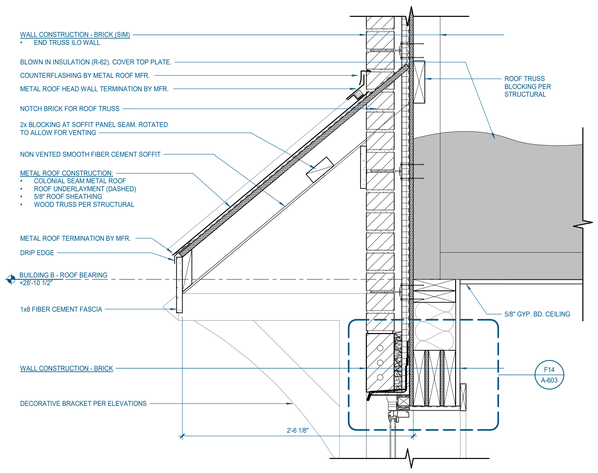
P24 BUILDING B - AWNING DETAIL AT 3RD FLOOR - FIBER CEMENT
1 1/2" = 1'-0"



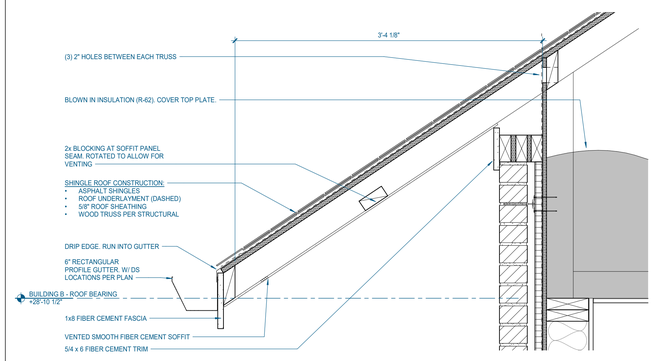
P15 BUILDING B - ROOF DETAIL @ DEEP EAVE - FIBER CEMENT
1 1/2" = 1'-0"



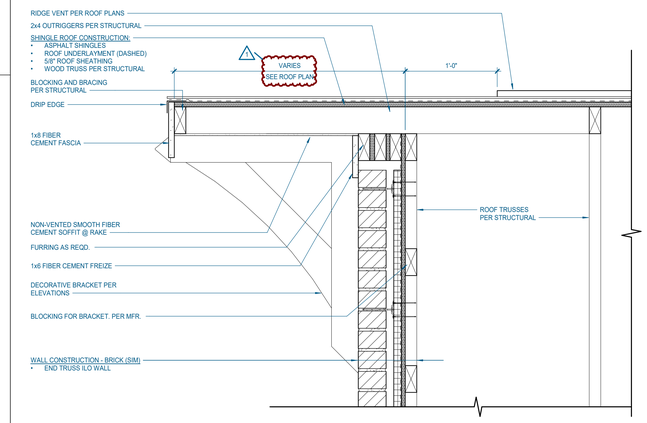
Q07 BUILDING B - ROOF DETAIL @ RAKE - FIBER CEMENT
1 1/2" = 1'-0"



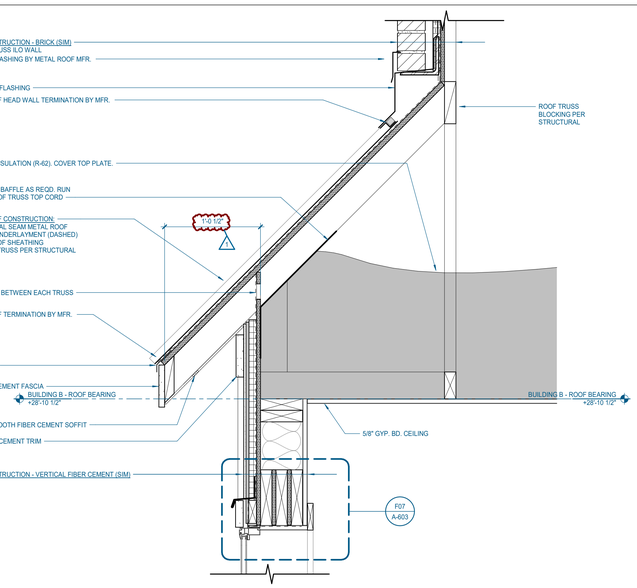
H24 BUILDING B - AWNING DETAIL AT 3RD FLOOR - BRICK
1 1/2" = 1'-0"



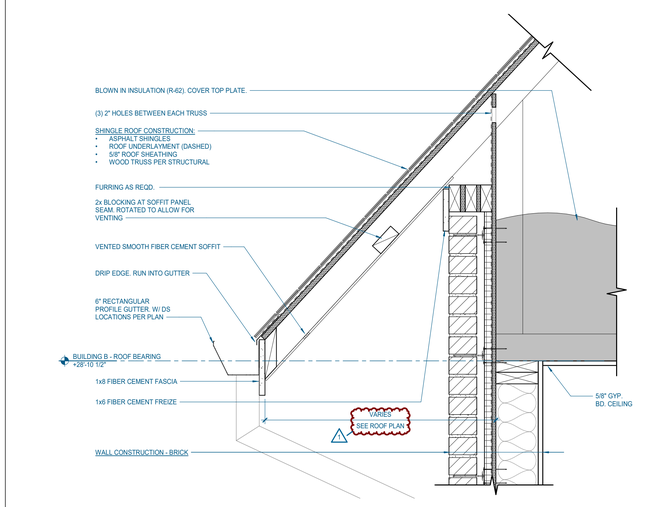
H15 BUILDING B - ROOF DETAIL @ DEEP EAVE - BRICK
1 1/2" = 1'-0"



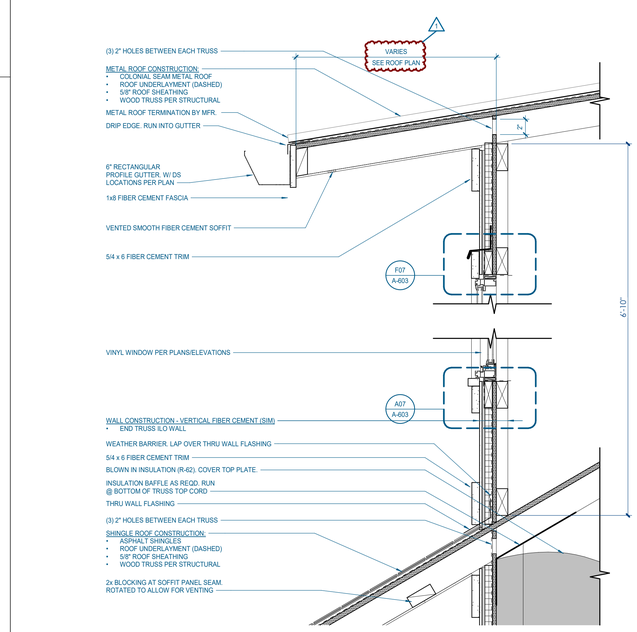
J07 BUILDING B - ROOF DETAIL @ RAKE - BRICK
1 1/2" = 1'-0"



A24 BUILDING B - ROOF DETAIL @ 3RD FLOOR BAY WINDOW - FIBER CEMENT
1 1/2" = 1'-0"



A15 BUILDING B - ROOF DETAIL @ EAVE - BRICK
1 1/2" = 1'-0"



A07 BUILDING B - SECTION @ DORMER
1 1/2" = 1'-0"

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2112 N.W. BROAD ST.
MURFREESBORO, TN 37129
615.893.4084

LANDSCAPE ARCHITECT:
RAGAN SMITH
100 E. VINE ST., STE 200
MURFREESBORO, TN 37130
615.546.6050

STRUCTURAL ENGINEER:
HAINES STRUCTURAL GROUP
800 S. GAY ST., STE 1750
KNOXVILLE TN, 37929
865.329.9920

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FACILITY SYSTEMS CONSULTANTS
713 S. CENTRAL ST., STE 101
KNOXVILLE TN, 37902
865.246.0164

ELECTRICAL ENGINEER:
FACILITY SYSTEMS CONSULTANTS
713 S. CENTRAL ST., STE 101
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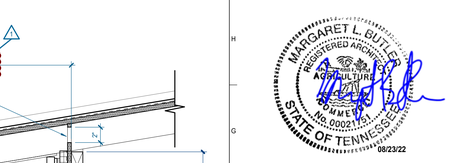

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Sheet Description:

A-322

BUILDING B - EXT. DETAILS

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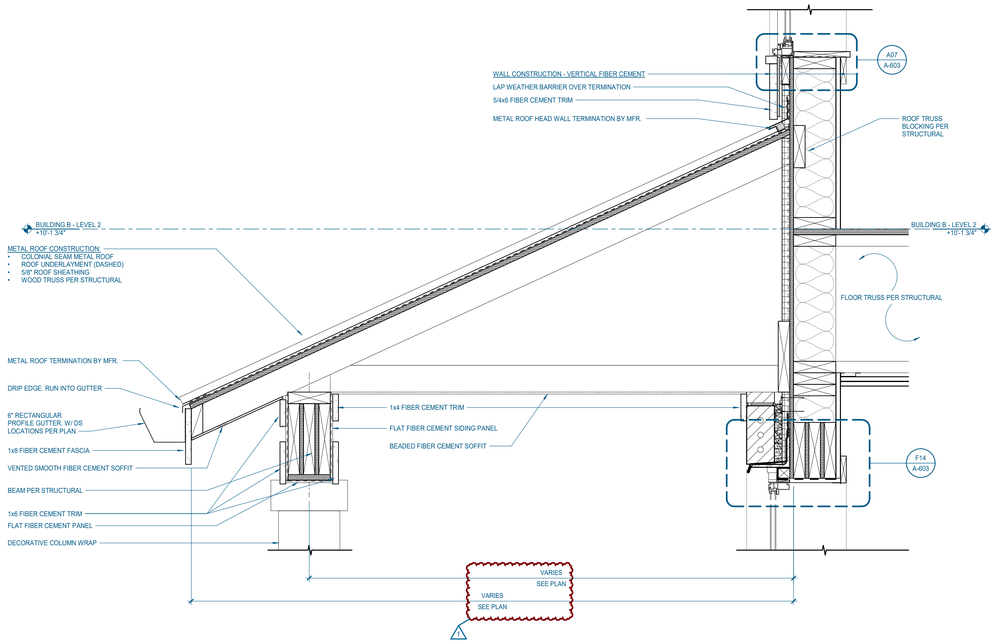
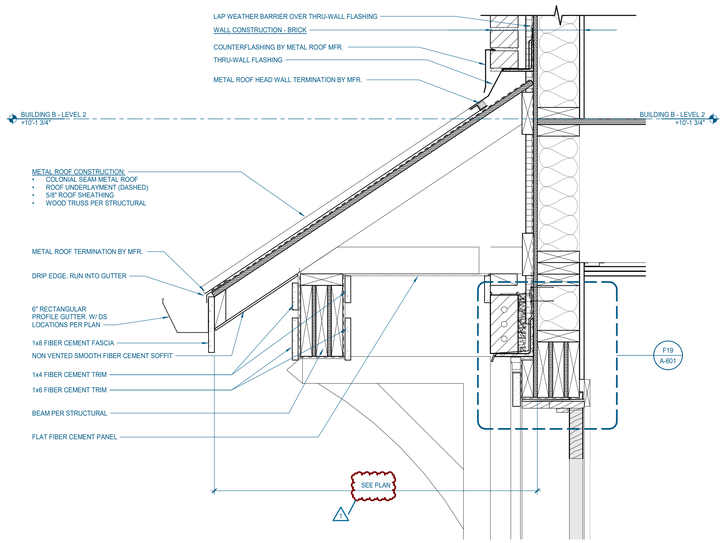
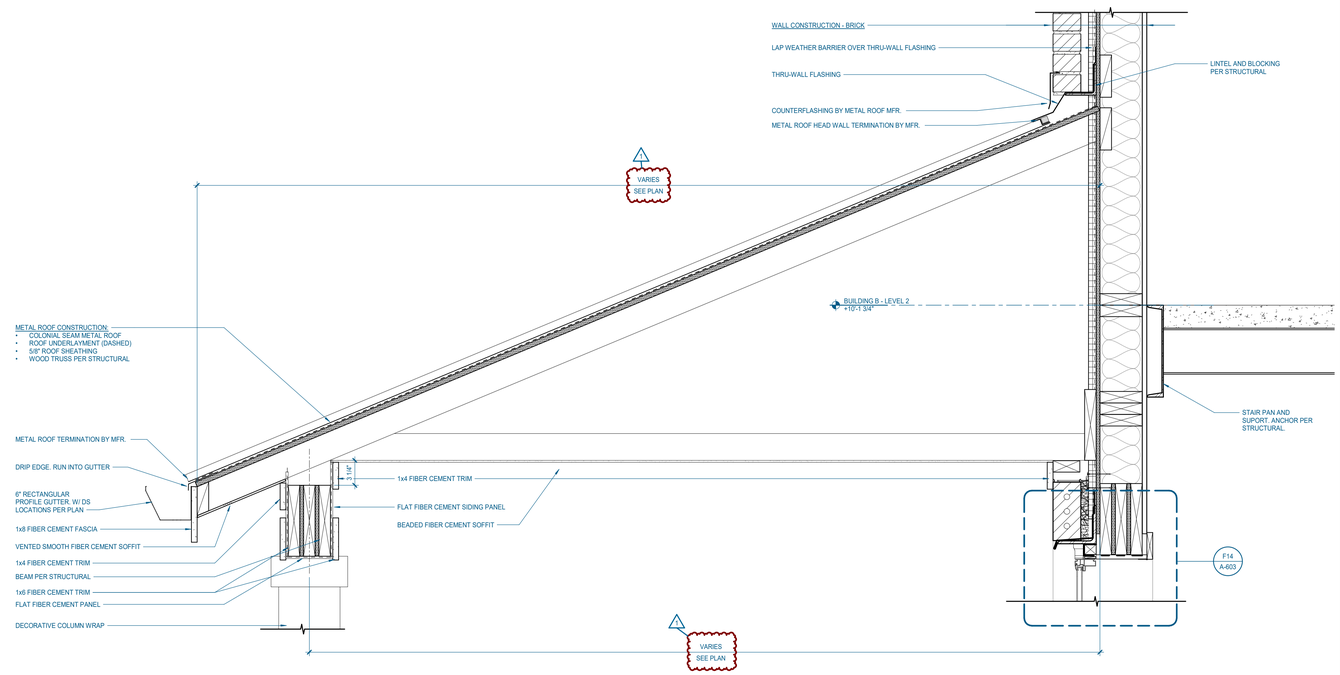


K11 BUILDING B - EAST PORCH ROOF AT FIBER CEMENT AND WINDOW
1 1/2" = 1'-0"



A24 BUILDING B - PORCH AWNING @ BRICK WITH BRACKETS
1 1/2" = 1'-0"



A15 BUILDING B - WEST PORCH ROOF @ BRICK AND COLUMNS
1 1/2" = 1'-0"

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2112 N.W. BROAD ST.
MURFREESBORO, TN 37129
615.893.4084

LANDSCAPE ARCHITECT:

RAGAN SMITH
100 E. VINE ST., STE 200
MURFREESBORO, TN 37130
615.546.6050

STRUCTURAL ENGINEER:

HAINES STRUCTURAL GROUP
800 S. GAY ST., STE 1750
KNOXVILLE TN, 37929
865.329.9920

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FACILITY SYSTEMS CONSULTANTS
713 S. CENTRAL ST., STE 101
KNOXVILLE TN, 37902
865.246.0164

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713 S. CENTRAL ST., STE 101
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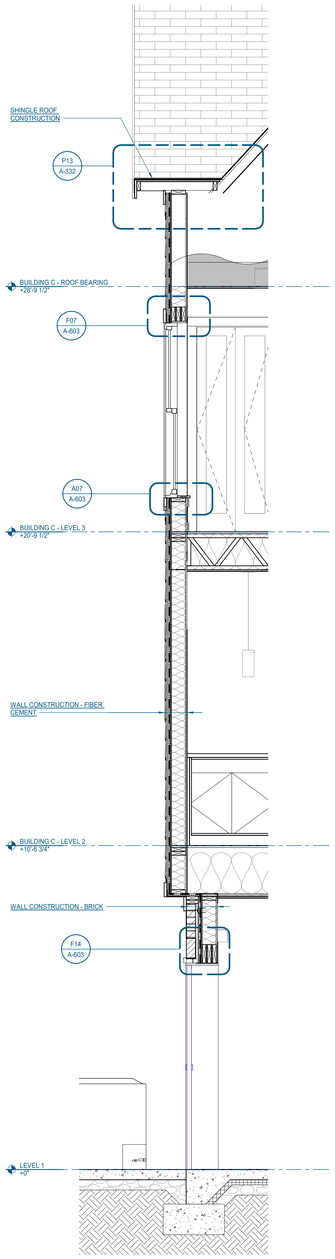
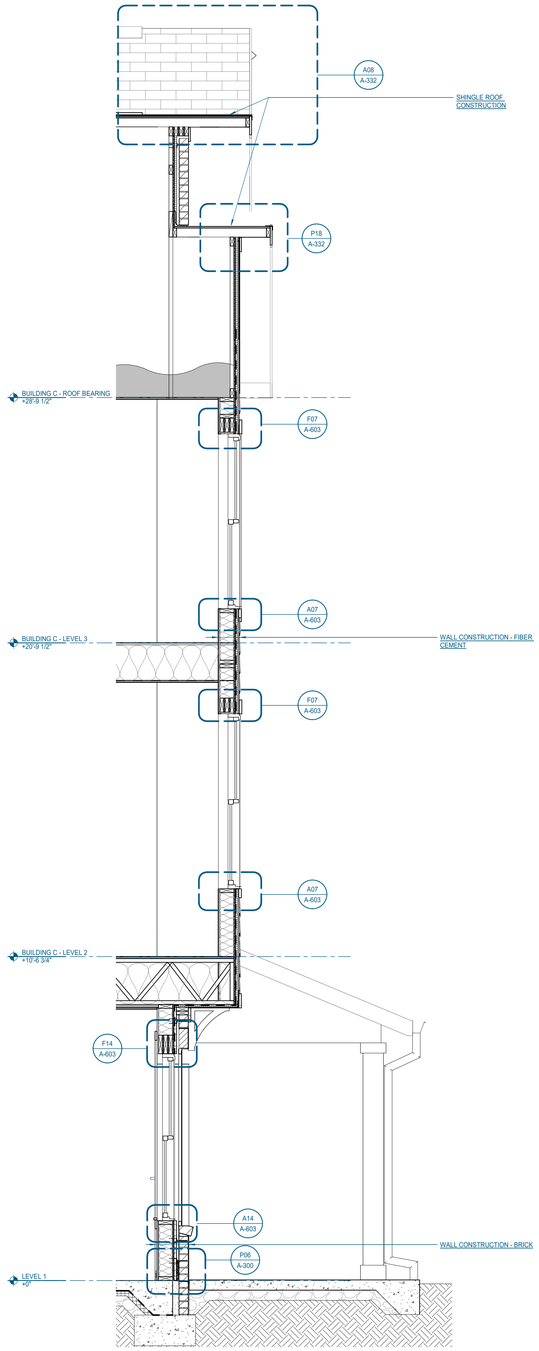
Sheet Description:

A-323

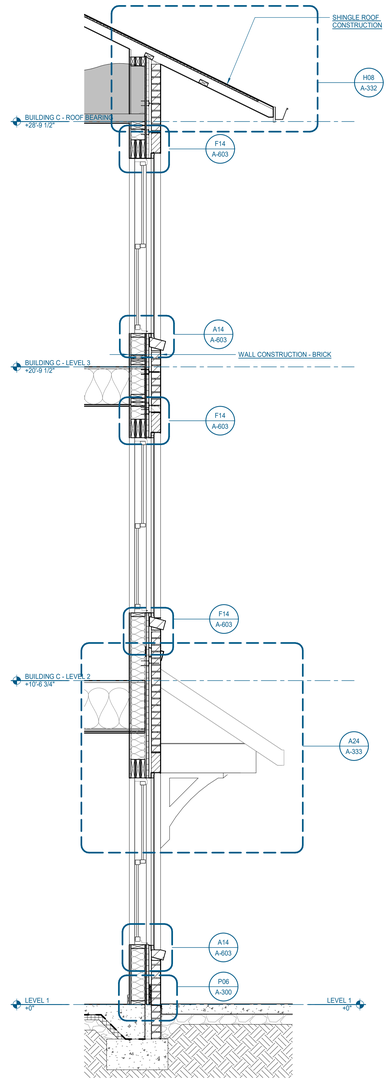
BUILDING B - PORCH ROOF DETAILS



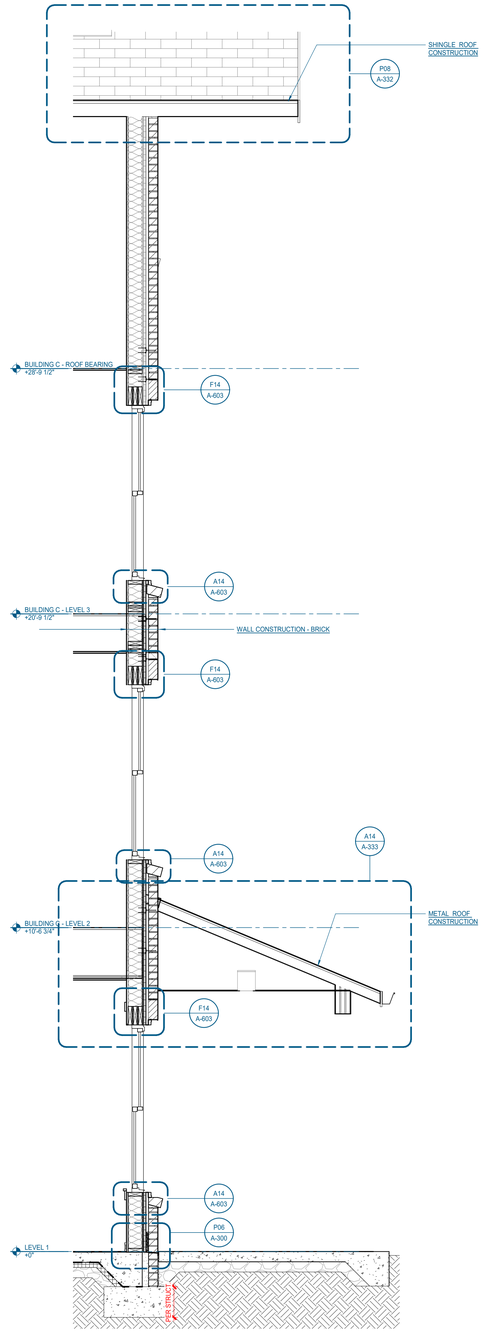
A24 WALL SECTION
1/2" = 1'-0"



A18 WALL SECTION
1/2" = 1'-0"



A12 WALL SECTION
1/2" = 1'-0"



A06 BUILDING C - WALL SECTION AT PORCH
1/2" = 1'-0"

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HUDDLESTON-STEELE ENGINEERING INC.
2112 N.W. BROAD ST.
MURFREESBORO, TN 37129
615.893.4084

LANDSCAPE ARCHITECT:

RAGAN SMITH
100 E. VINE ST., STE 200
MURFREESBORO, TN 37130
615.546.6050

STRUCTURAL ENGINEER:

HAINES STRUCTURAL GROUP
800 S. GAY ST., STE 1750
KNOXVILLE TN, 37929
865.329.9920

MECHANICAL & PLUMBING ENGINEER:

FACILITY SYSTEMS CONSULTANTS
713 S. CENTRAL ST., STE 101
KNOXVILLE TN, 37902
865.246.0164

ELECTRICAL ENGINEER:

FACILITY SYSTEMS CONSULTANTS
713 S. CENTRAL ST., STE 101
KNOXVILLE TN, 37902
865.246.0164

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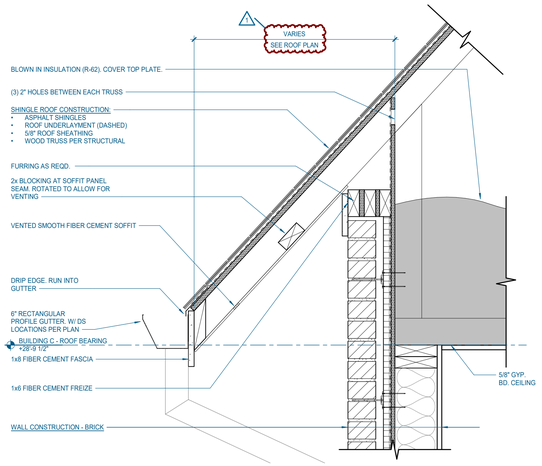
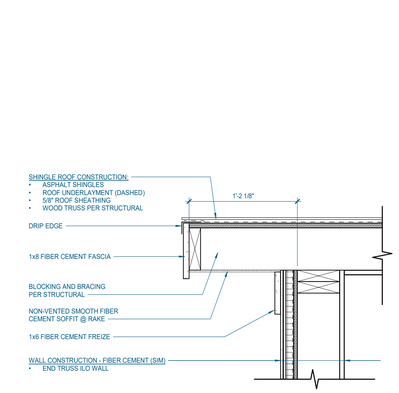
A-331

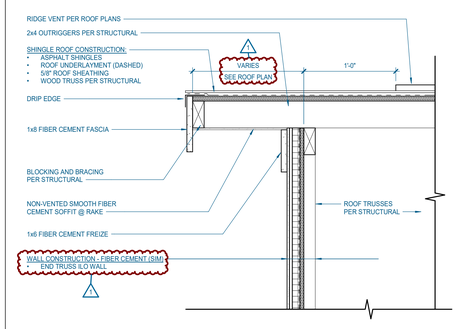
BUILDING C - EXTERIOR WALL SECTIONS



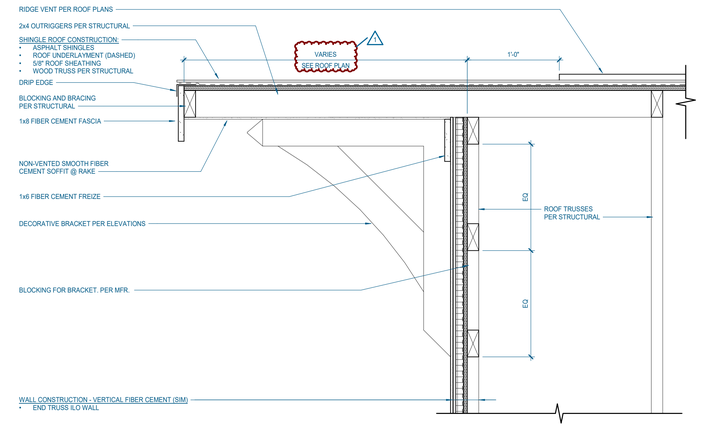
P24 BUILDING C - ROOF SECTION @ EAVE
1 1/2" = 1'-0"



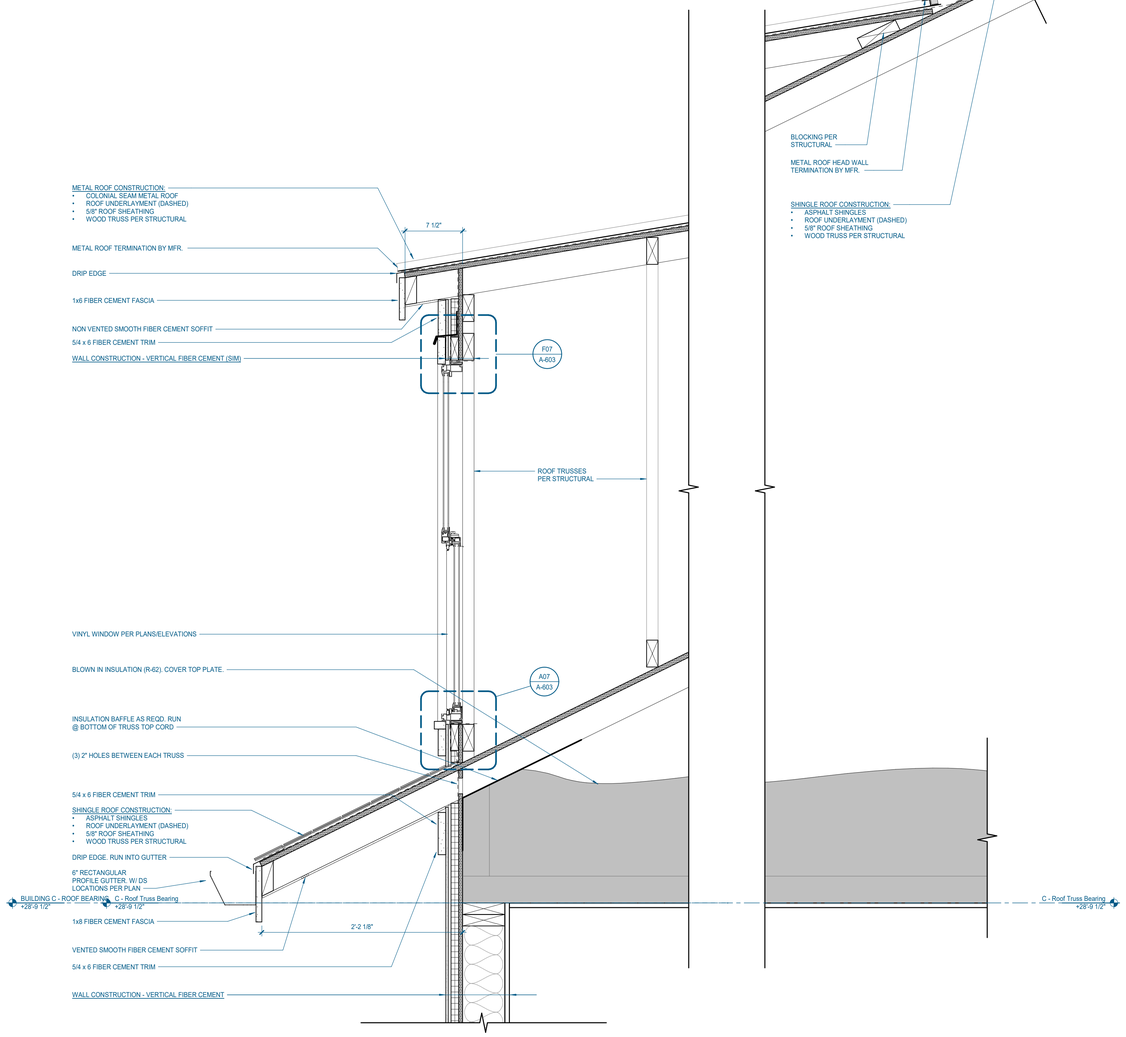
P18 BUILDING C - ROOF AT BAY WINDOW
1 1/2" = 1'-0"



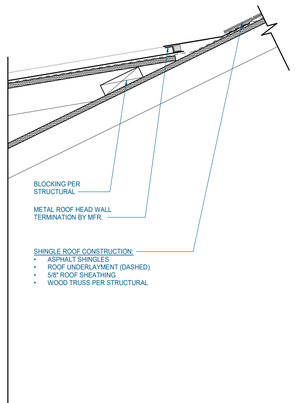
P13 BUILDING C - ROOF SECTION 6
1 1/2" = 1'-0"

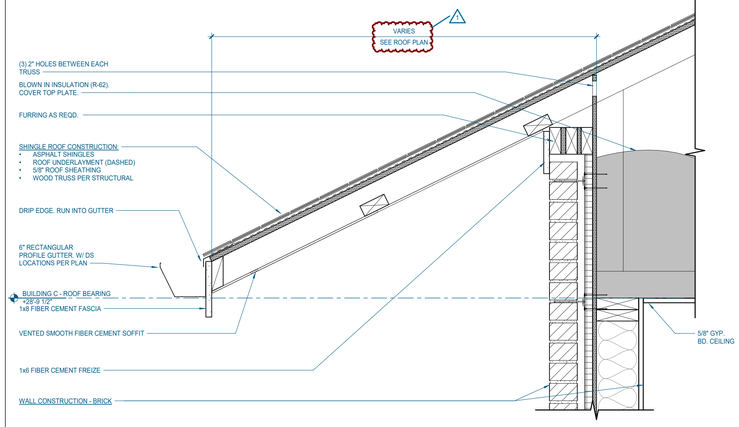


P08 BUILDING C - ROOF @ RAKE
1 1/2" = 1'-0"

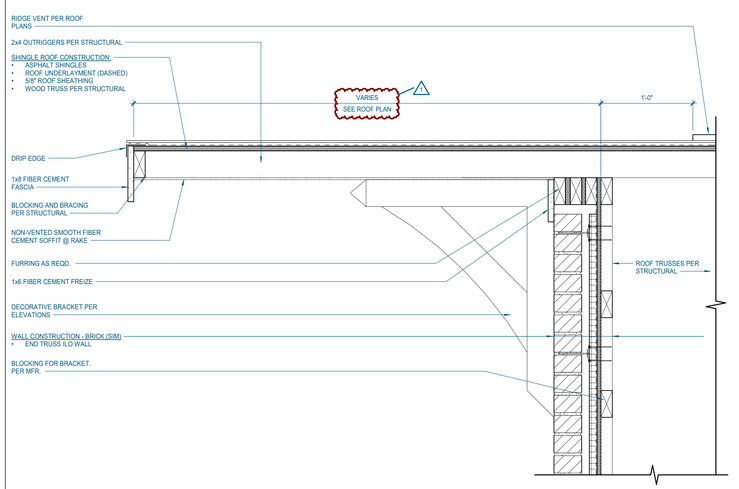


A24 BUILDING C - SECTION THRU NORTH DORMER
1 1/2" = 1'-0"





H08 BUILDING C - ROOF SECTION 2
1 1/2" = 1'-0"



A08 BUILDING C - ROOF SECTION 1
1 1/2" = 1'-0"

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t 865.544.2000
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Consultants:

CIVIL ENGINEER:

HUDDLESTON-STEELE ENGINEERING INC.
2112 N.W. BROAD ST.
MURFREESBORO, TN 37129
615.893.4084

LANDSCAPE ARCHITECT:

RAGAN SMITH
100 E. VINE ST., STE 200
MURFREESBORO, TN 37130
615.546.6050

STRUCTURAL ENGINEER:

HAINES STRUCTURAL GROUP
800 S. GAY ST., STE 1750
KNOXVILLE TN, 37929
865.329.9920

MECHANICAL & PLUMBING ENGINEER:

FACILITY SYSTEMS CONSULTANTS
713 S. CENTRAL ST., STE 101
KNOXVILLE TN, 37902
865.246.0164

ELECTRICAL ENGINEER:

FACILITY SYSTEMS CONSULTANTS
713 S. CENTRAL ST., STE 101
KNOXVILLE TN, 37902
865.246.0164

Project Information:

21026

MHA Parkside Housing

520 EAST CASTLE STREET,
MURFREESBORO, TN 37130

Consultant:

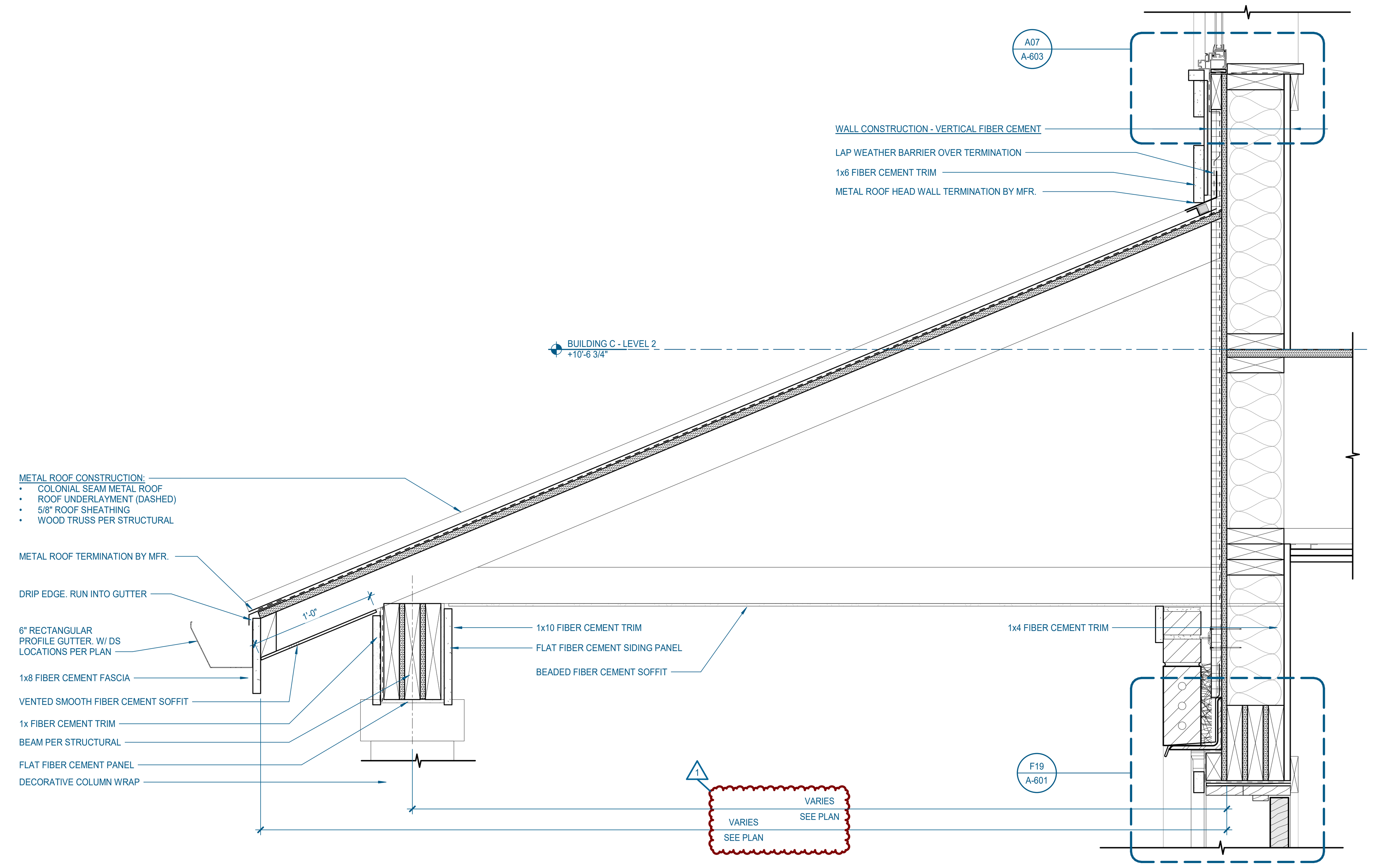
#	ISSUE	DATE
1	REVISION 01 - CITY COMMENTS RESPONSE	08.23.2022

Issue Date:	04/04/2022
PIC	M. BUTLER
PM	M. BUTLER
PA	G. TAYLOR
Drawn By:	Author
Checked By:	J. BRADLEY

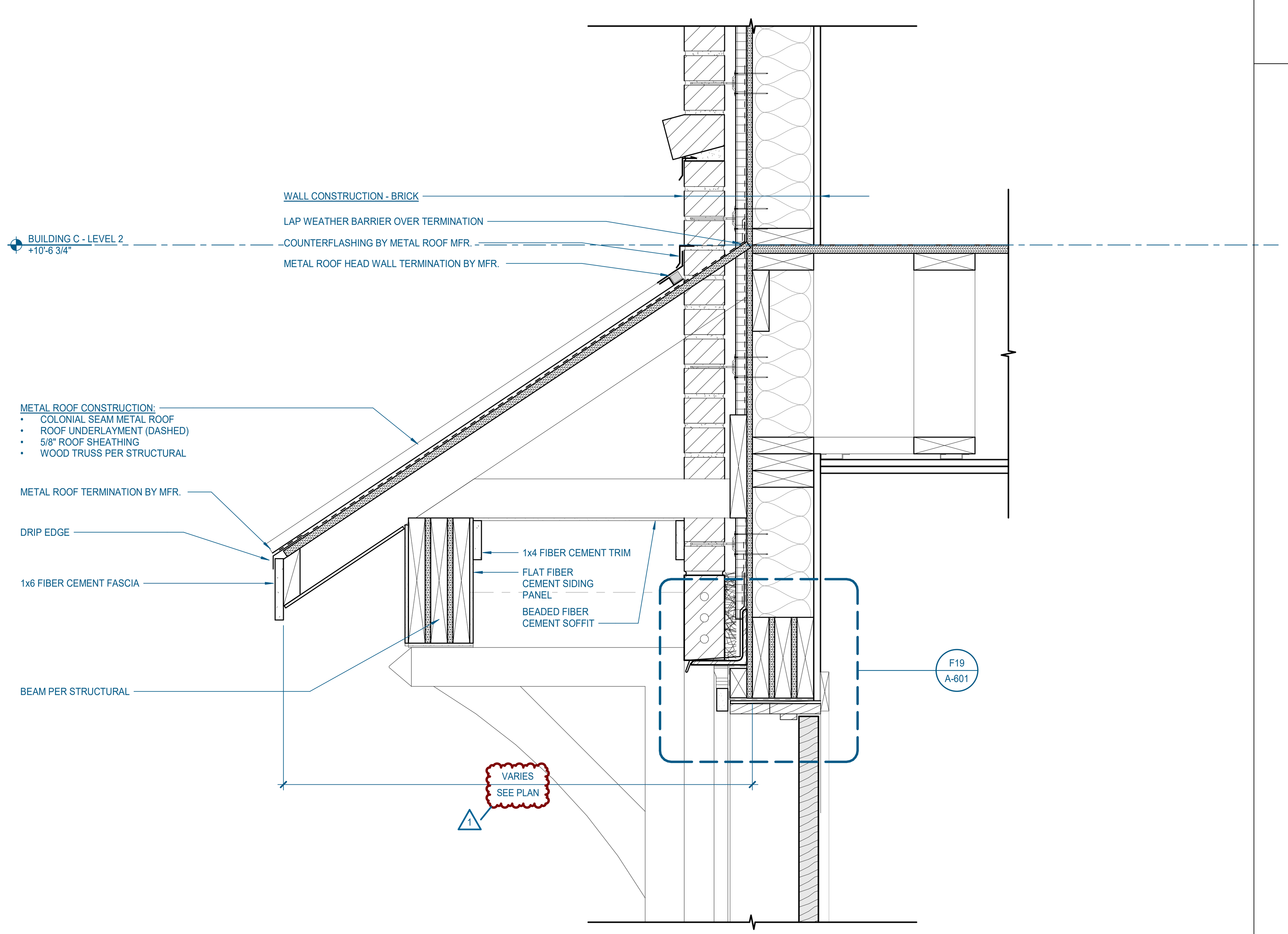
Sheet Description:

A-332

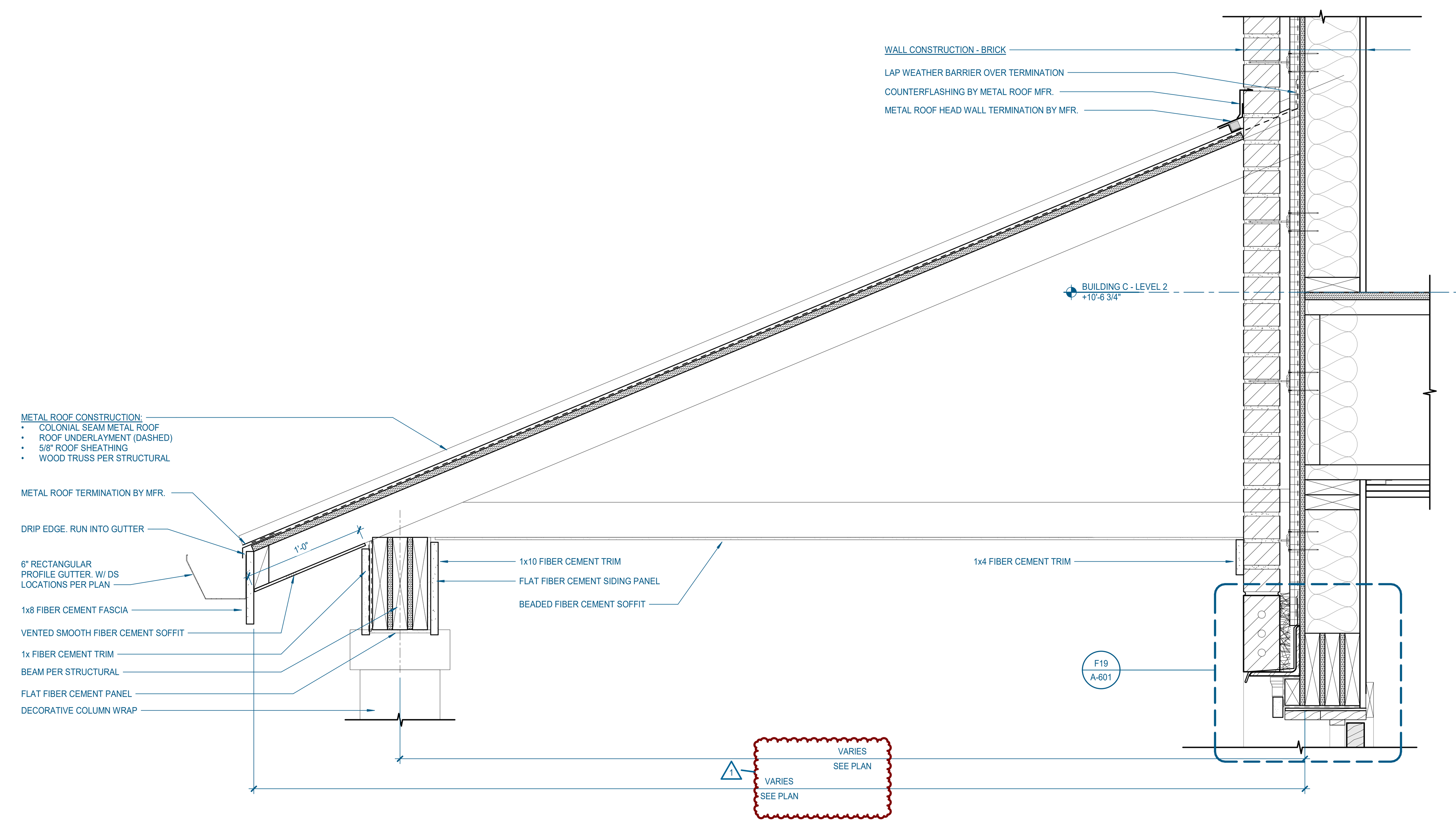
BUILDING C- EXT. DETAILS



J14 **BUILDING C - PORCH ROOF DETAIL 3**
1 1/2" = 1'-0"



A24 **BUILDING C - PORCH ROOF DETAIL**
1 1/2" = 1'-0"



A14 **BUILDING C - PORCH ROOF DETAIL 2**
1 1/2" = 1'-0"

11/15/2023 2:53:48 PM

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McCarty Holsaple McCarty, Inc.
550 W. Main St., Suite 300
Knoxville, TN 37902
t 865.544.2000
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KNOXVILLE TN, 37929
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FACILITY SYSTEMS CONSULTANTS
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KNOXVILLE TN, 37902
865.246.0164

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713 S. CENTRAL ST., STE 101
KNOXVILLE TN, 37902
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Project Information:

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MHA Parkside Housing

520 EAST CASTLE STREET,
MURFREESBORO, TN 37130

MARGARET L. BUTLER — REGISTERED ARCHITECT — STATE OF TENNESSEE — 08/23/22

Consultant:

#	ISSUE	DATE
1	REVISION 01 - CITY COMMENTS RESPONSE	08.23.2022

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PA	G. TAYLOR
Drawn By:	Author
Checked By:	J. BRADLEY

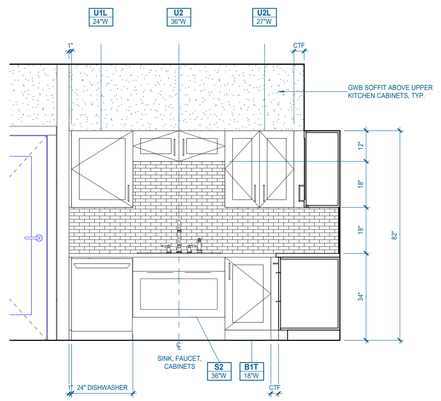
Sheet Description:

A-333

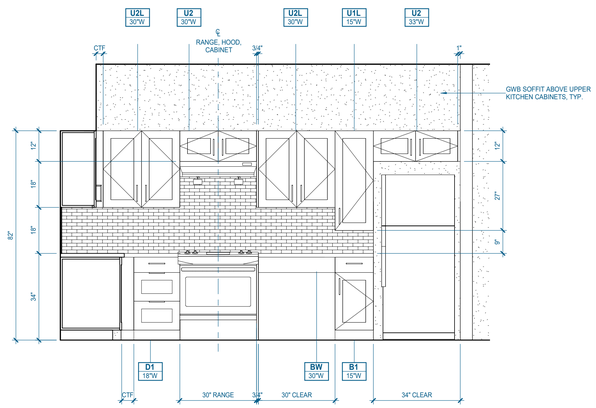
BUILDING C - PORCH ROOF DETAILS

ENLARGED PLAN AND INTERIOR ELEVATION GENERAL NOTES

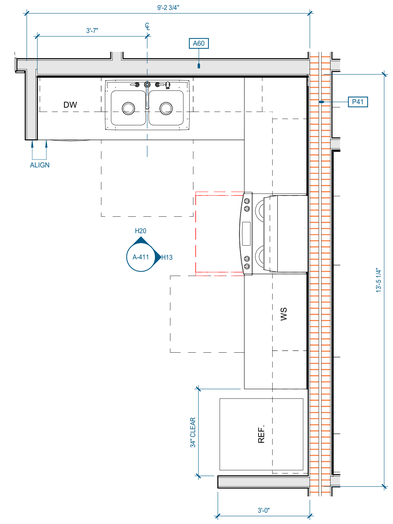
1. REFER TO SHEET A-001 FOR ADDITIONAL GENERAL NOTES.
2. ALL NEW PARTITIONS SHALL BE TYPE **A40**, UNO; REFER TO PARTITION SCHEDULE FOR MORE INFORMATION.
3. TYPICAL DIMENSIONS SHOWN ON THE FLOOR PLANS FOR NEW CONSTRUCTION ARE TO THE FACE OF STUD, UNLESS OTHERWISE NOTED.
4. PLUMBING LOCATIONS ARE DIMENSIONED FROM FINISHED FACE OF DRYWALL TO PLUMBING CENTERLINE.
5. PARTITION TYPES ARE SCHEDULED IN THE A-000 SERIES. RE: G-100 SERIES "CODE COMPLIANCE PLANS/LIFE SAFETY PLANS FOR GRAPHIC EXTENT OF FIRE RATED PARTITIONS. REFER TO PARTITION TYPE SCHEDULE FOR LOCATION OF SOUND ATTENUATION BLANKETS
6. LAYOUT PARTITIONS FOR ARCHITECT TO REVIEW FOR DESIGN INTENT. DO NOT PROCEED WITH INSTALLATION OF RUNNERS OR STUDS WITHOUT THIS REVIEW.
7. LOCATE DOORS 4" FROM FACE OF INTERSECTING PARTITION TO INSIDE EDGE OF DOOR FRAME, UNO.
8. THE CONTRACTOR SHALL PATCH AND REPAIR ALL EXISTING AND NEW WALL SURFACES AS REQUIRED PRIOR TO APPLYING FINISHES.
9. THE CONTRACTOR SHALL SURVEY FLOOR ELEVATIONS TO DETERMINE SCOPE OF FLOOR LEVELING AND REMEDIAL REPAIR WORK. THE CONTRACTOR SHALL INCLUDE IN HIS SCOPE OF WORK ALL COSTS THAT ARE ASSOCIATED WITH FLOOR LEVELING AND ASSOCIATED REMEDIAL REPAIR WORK. FLOOR SHALL BE LEVEL WITHIN 1/4" IN 10'-0" RADIUS.
10. PROVIDE MINIMUM 1'-0" CLEAR FLOOR SPACE AT THE PUSH SIDE OF EVERY DOOR WITH A CLOSER. PROVIDE MINIMUM 1'-6" CLEAR AT THE PULL SIDE OF EVERY DOOR, UNLESS SPECIFICALLY DIMENSIONED, NOTED OR SHOWN OTHERWISE.
11. OPENINGS IN GYPSUM BOARD FOR ELECTRICAL AND COMMUNICATION RECEPTACLE, PIPING, DUCTWORK, AND OTHER PENETRATIONS SHALL MAINTAIN TIGHT TOLERANCES. EXPOSED EDGES SHALL BE COVERED BY TRIM PLATES OR ESCUTCHEONS.
12. ALL GYPSUM BOARD WALLS TO RECEIVE TILE OR FRP FINISHES SHALL HAVE TILE BACKER BOARD. ALL OTHER WALLS IN TOILET ROOM AND KITCHENS TO BE WATER-RESISTANT GYPSUM BOARD.
13. PARTITIONS NOT DIMENSIONED ARE GENERALLY LOCATED BY ONE OF THE FOLLOWING CRITERIA:
    - A. CENTERLINE: CENTER OF PARTITION ALIGNS WITH THE CENTER OF GRIDLINE OR OBJECT CENTERLINE (SUCH AS A COLUMN OR MULLION). CENTER THE OVERALL PARTITION WIDTH RATHER THAN STUD WIDTH ON THE LINE.
    - B. ALIGN: LOCATE PARTITION FLUSH WITH FACE OF GYPSUM BOARD, OR OTHER SURFACE INDICATED.
    - C. MAINTAIN DIMENSIONS NOTED AS 'MINIMUM', 'CLEAR', OR 'HOLD'.
14. SEE A-002 FOR TYPICAL MOUNTING HEIGHTS OF PLUMBING FIXTURES AND TOILET ACCESSORIES.
15. ALL LAVATORIES AND SINKS SHALL BE MOUNTED A MINIMUM OF 1'-3" FROM THE CENTERLINE OF THE FIXTURE TO THE FINISHED FACE OF THE ADJACENT PARTITION.
16. BLOCKING TO BE PROVIDED AT ALL TOILETS AND SHOWERS/TUBS TO ALLOW FOR FUTURE GRAB BARS.
17. CONTINUOUS BLOCKING TO BE PROVIDED AT ALL WALL CABINET LOCATIONS.
18. ALL STORAGE AND LINEN CLOSETS TO RECEIVE WIRE SHELVING AT 12" INTERVALS FROM 1'-0" TO 6'-0" AFF.
19. ALL LAUNDRY ROOMS TO RECEIVE ADJUSTABLE SHELVING ON STANDARDS.
20. ALL BEDROOM CLOSETS TO RECEIVE HANGING ROD AND SHELF @ 5'-0" AFF. UFAS BEDROOM CLOSETS TO RECEIVE HANGING ROD AND SHELF @ 54" MAX AFF.
21. SLOPE ALL PORCHES AWAY FROM BUILDING @ 1/8":12" MAX. PORCH FINISH TO BE LIGHT BROOM FINISH IN DIRECTION OF SLOPE.
22. ROUTE ALL ROOF PENETRATIONS TO THE AREA INDICATED ON ROOF PLANS.



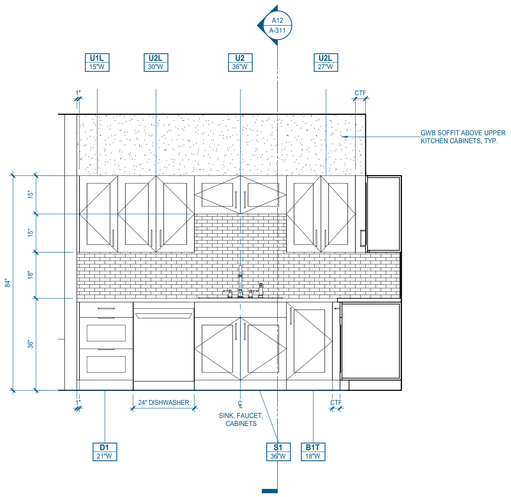
H20 BUILDING A - UNIT 2 UFAS KITCHEN - N ELEVATION
1/2" = 1'-0"



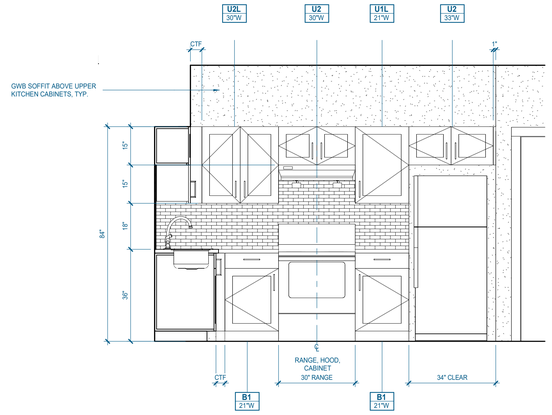
H13 BUILDING A - UNIT 2 UFAS KITCHEN - E ELEVATION
1/2" = 1'-0"



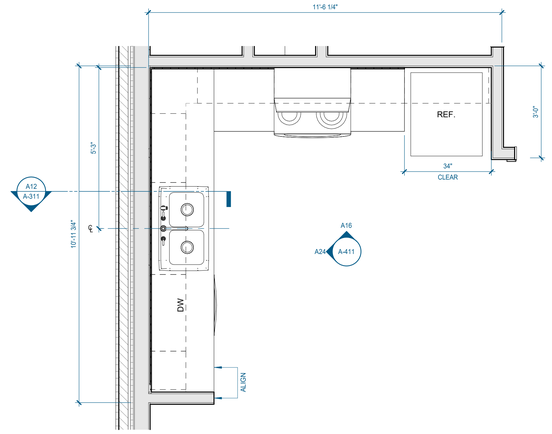
H06 BUILDING A - PLAN - UNIT 2 UFAS KITCHEN
1/2" = 1'-0"



A24 BUILDING A - TYP STANDARD KITCHEN - W ELEVATION
1/2" = 1'-0"



A16 BUILDING A - TYP STANDARD KITCHEN - N ELEVATION
1/2" = 1'-0"



A08 BUILDING A - PLAN - TYP STANDARD KITCHEN
1/2" = 1'-0"

11/15/2023 2:53:53 PM

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McCarty Holsaple McCarty, Inc.
550 W. Main St., Suite 300
Knoxville, TN 37902
t 865.544.2000
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Drawn By:	Author
Checked By:	J. BRADLEY

Sheet Description:

A-411

ENLARGED PLANS & ELEVATIONS - BUILDING A KITCHENS

TOILET / SHOWER ACCESSORIES TYPE LEGEND

Type Mark	Type Comments
GB-1	42" HORIZONTAL GRAB BAR
GB-2	36" HORIZONTAL GRAB BAR
GB-3	18" VERTICAL GRAB BAR
GB-4	24" HORIZONTAL GRAB BAR
GB-6	48" HORIZONTAL GRAB BAR
MC	MEDICINE CABINET
MR	MIRROR
RH	ROBE HOOK
RH-A	ROBE HOOK - ACCESSIBLE
SR	SHOWER CURTAIN ROD
TB-1	24" TOWEL BAR
TB-2	18" TOWEL BAR
TD	TOILET TISSUE HOLDER
TR	TOWEL RING
TR-A	TOWEL RING - ACCESSIBLE

ENLARGED PLAN AND INTERIOR ELEVATION GENERAL NOTES

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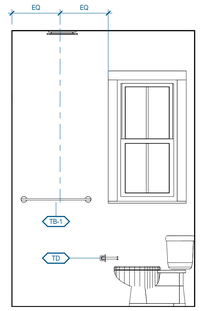
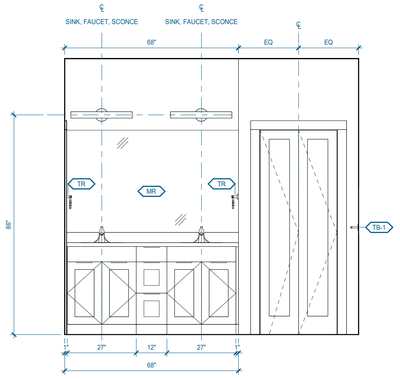


M24 BLDG A - FL 02 TYP BATH - N ELEVATION
1/2" = 1'-0"



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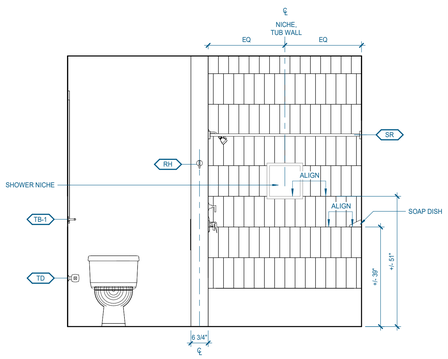
1/2" = 1'-0"



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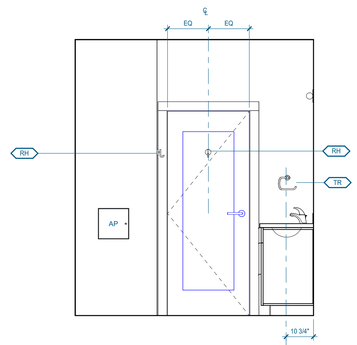
1/2" = 1'-0"



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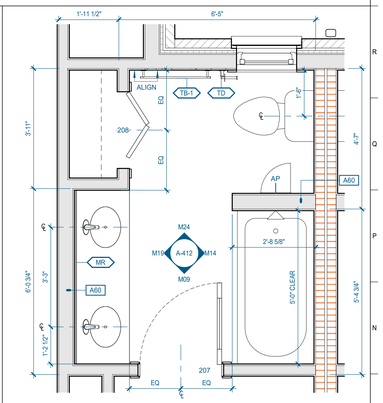
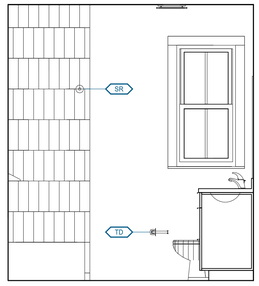
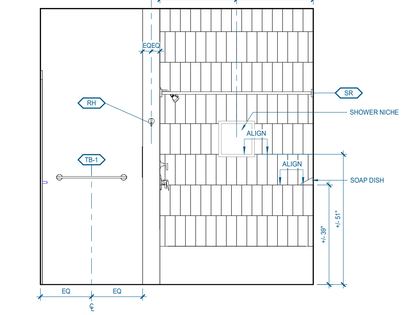
1/2" = 1'-0"



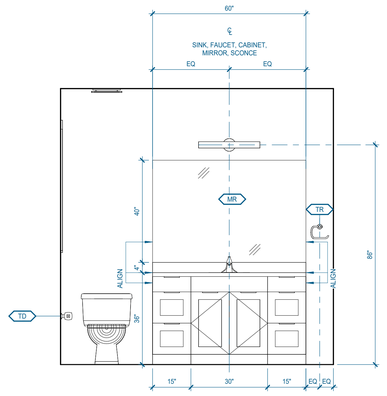
M04 BUILDING A - PLAN - FL 02 TYP BATH
1/2" = 1'-0"



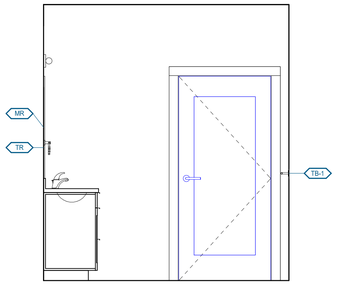
G24 BLDG A - FL 01 TYP BATH - N ELEVATION
1/2" = 1'-0"



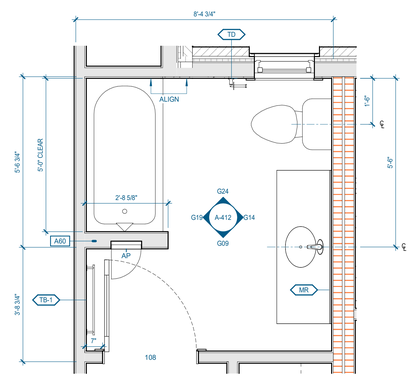
G19 BLDG A - FL 01 TYP BATH - W ELEVATION
1/2" = 1'-0"



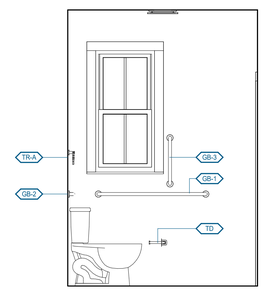
G14 BLDG A - FL 01 TYP BATH - E ELEVATION
1/2" = 1'-0"



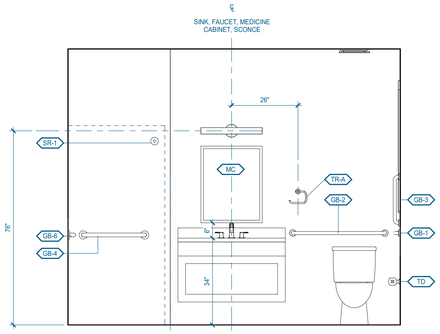
G09 BLDG A - FL 01 TYP BATH - S ELEVATION
1/2" = 1'-0"



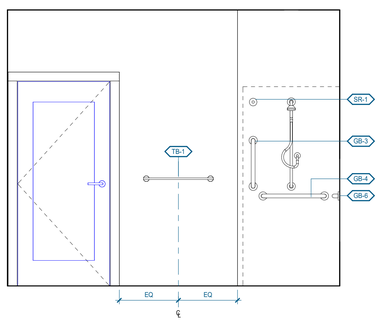
G05 BUILDING A - PLAN - FL 01 TYP BATH
1/2" = 1'-0"



A24 BLDG A - UNIT 2 UFAS BATH - N ELEVATION
1/2" = 1'-0"



A19 BLDG A - UNIT 2 UFAS BATH - W ELEVATION
1/2" = 1'-0"



A14 BLDG A - UNIT 2 UFAS BATH - E ELEVATION
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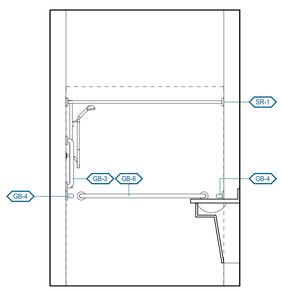
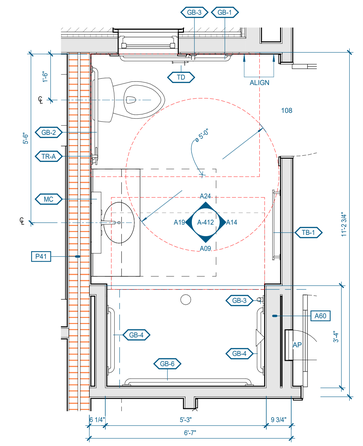


A09 BLDG A - UNIT 2 UFAS BATH - S ELEVATION
1/2" = 1'-0"



A04 BUILDING A - PLAN - UNIT 2 UFAS BATH
1/2" = 1'-0"

11/15/2023 2:54:08 PM

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McCarty Holsaple McCarty, Inc.
550 W. Main St., Suite 300
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Seal:

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Issue Date:	04/04/2022
PIC	M. BUTLER
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PA	G. TAYLOR
Drawn By:	Author
Checked By:	J. BRADLEY

Sheet Description:

A-412

ENLARGED PLANS & ELEVATIONS - BUILDING A BATHROOMS

TOILET / SHOWER ACCESSORIES TYPE LEGEND

Type Mark	Type Comments
GB-1	42" HORIZONTAL GRAB BAR
GB-2	36" HORIZONTAL GRAB BAR
GB-3	18" VERTICAL GRAB BAR
GB-4	24" HORIZONTAL GRAB BAR
GB-6	48" HORIZONTAL GRAB BAR
MC	MEDICINE CABINET
MR	MIRROR
RH	ROBE HOOK
RH-A	ROBE HOOK - ACCESSIBLE
SR	SHOWER CURTAIN ROD
TB-1	24" TOWEL BAR
TB-2	18" TOWEL BAR
TD	TOILET TISSUE HOLDER
TR	TOWEL RING
TR-A	TOWEL RING - ACCESSIBLE

ENLARGED PLAN AND INTERIOR ELEVATION GENERAL NOTES

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2. ALL NEW PARTITIONS SHALL BE TYPE **A40**, UNO; REFER TO PARTITION SCHEDULE FOR MORE INFORMATION.
3. TYPICAL DIMENSIONS SHOWN ON THE FLOOR PLANS FOR NEW CONSTRUCTION ARE TO THE FACE OF STUD, UNLESS OTHERWISE NOTED.
4. PLUMBING LOCATIONS ARE DIMENSIONED FROM FINISHED FACE OF DRYWALL TO PLUMBING CENTERLINE.
5. PARTITION TYPES ARE SCHEDULED IN THE A-000 SERIES. RE: G-100 SERIES "CODE COMPLIANCE PLANS/LIFE SAFETY PLANS FOR GRAPHIC EXTENT OF FIRE RATED PARTITIONS. REFER TO PARTITION TYPE SCHEDULE FOR LOCATION OF SOUND ATTENUATION BLANKETS
6. LAYOUT PARTITIONS FOR ARCHITECT TO REVIEW FOR DESIGN INTENT. DO NOT PROCEED WITH INSTALLATION OF RUNNERS OR STUDS WITHOUT THIS REVIEW.
7. LOCATE DOORS 4" FROM FACE OF INTERSECTING PARTITION TO INSIDE EDGE OF DOOR FRAME, UNO.
8. THE CONTRACTOR SHALL PATCH AND REPAIR ALL EXISTING AND NEW WALL SURFACES AS REQUIRED PRIOR TO APPLYING FINISHES.
9. THE CONTRACTOR SHALL SURVEY FLOOR ELEVATIONS TO DETERMINE SCOPE OF FLOOR LEVELING AND REMEDIAL REPAIR WORK. THE CONTRACTOR SHALL INCLUDE IN HIS SCOPE OF WORK ALL COSTS THAT ARE ASSOCIATED WITH FLOOR LEVELING AND ASSOCIATED REMEDIAL REPAIR WORK. FLOOR SHALL BE LEVEL WITHIN 1/4" IN 10'-0" RADIUS.
10. PROVIDE MINIMUM 1'-0" CLEAR FLOOR SPACE AT THE PUSH SIDE OF EVERY DOOR WITH A CLOSER. PROVIDE MINIMUM 1'-6" CLEAR AT THE PULL SIDE OF EVERY DOOR, UNLESS SPECIFICALLY DIMENSIONED, NOTED OR SHOWN OTHERWISE.
11. OPENINGS IN GYPSUM BOARD FOR ELECTRICAL AND COMMUNICATION RECEPTACLE, PIPING, DUCTWORK, AND OTHER PENETRATIONS SHALL MAINTAIN TIGHT TOLERANCES. EXPOSED EDGES SHALL BE COVERED BY TRIM PLATES OR ESCUTCHEONS.
12. ALL GYPSUM BOARD WALLS TO RECEIVE TILE OR FRP FINISHES SHALL HAVE TILE BACKER BOARD. ALL OTHER WALLS IN TOILET ROOM AND KITCHENS TO BE WATER-RESISTANT GYPSUM BOARD.
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    B. ALIGN: LOCATE PARTITION FLUSH WITH FACE OF GYPSUM BOARD, OR OTHER SURFACE INDICATED.
    C. MAINTAIN DIMENSIONS NOTED AS 'MINIMUM', 'CLEAR', OR 'HOLD'.
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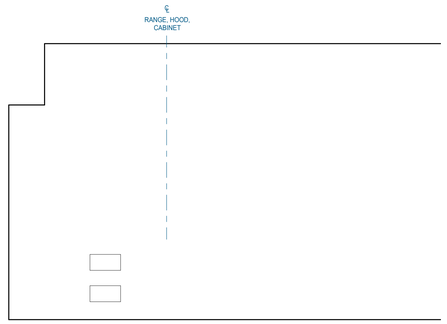
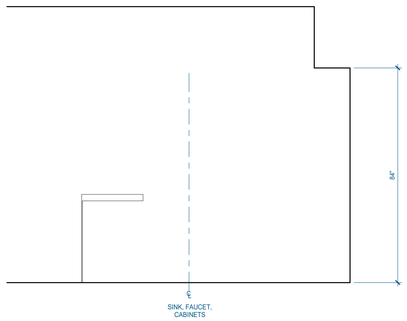
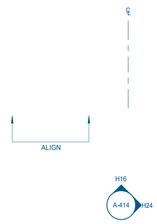
17. CONTINUOUS BLOCKING TO BE PROVIDED AT ALL WALL CABINET LOCATIONS.
18. ALL STORAGE AND LINEN CLOSETS TO RECEIVE WIRE SHELVING AT 12" INTERVALS FROM 1'-0" TO 6'-0" AFF.
19. ALL LAUNDRY ROOMS TO RECEIVE ADJUSTABLE SHELVING ON STANDARDS.
20. ALL BEDROOM CLOSETS TO RECEIVE HANGING ROD AND SHELF @ 5'-0" AFF. UFAS BEDROOM CLOSETS TO RECEIVE HANGING ROD AND SHELF @ 54" MAX AFF.
21. SLOPE ALL PORCHES AWAY FROM BUILDING @ 1/8":12" MAX. PORCH FINISH TO BE LIGHT BROOM FINISH IN DIRECTION OF SLOPE.
22. ROUTE ALL ROOF PENETRATIONS TO THE AREA INDICATED ON ROOF PLANS.



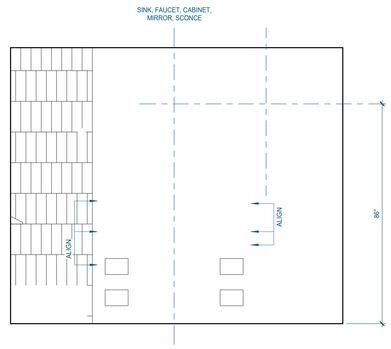
H24 BLDG A* - UNIT 2 KITCHEN - E ELEVATION
1/2" = 1'-0"



H16 BLDG A* - UNIT 2 KITCHEN - N ELEVATION
1/2" = 1'-0"

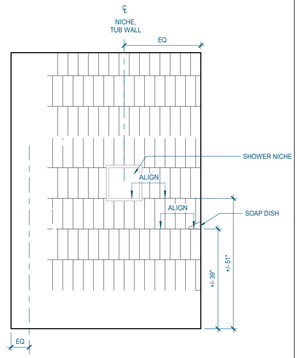


H08 BUILDING A* - PLAN - UNIT A2* KITCHEN
1/2" = 1'-0"



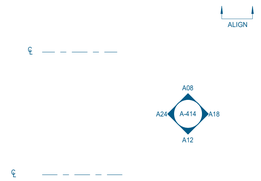
A24 BLDG A* - UNIT 2 BATH - W ELEVATION
1/2" = 1'-0"

A18 BLDG A* - UNIT 2 BATH - E ELEVATION
1/2" = 1'-0"



A12 BLDG A* - UNIT 2 BATH - S ELEVATION
1/2" = 1'-0"

A08 BLDG A* - UNIT 2 BATH - N ELEVATION
1/2" = 1'-0"



A04 BUILDING A* - PLAN - UNIT A2* BATH
1/2" = 1'-0"

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McCarty Holsaple McCarty, Inc.
550 W. Main St., Suite 300
Knoxville, TN 37902
t 865.544.2000
www.mhminc.com

Consultants:

CIVIL ENGINEER:

HUDDLESTON-STEELE ENGINEERING INC.
2112 N.W. BROAD ST.
MURFREESBORO, TN 37129
615.893.4084

LANDSCAPE ARCHITECT:

RAGAN SMITH
100 E. VINE ST., STE 200
MURFREESBORO, TN 37130
615.546.6050

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800 S. GAY ST., STE 1750
KNOXVILLE TN, 37929
865.329.9920

MECHANICAL & PLUMBING ENGINEER:

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713 S. CENTRAL ST., STE 101
KNOXVILLE TN, 37902
865.246.0164

ELECTRICAL ENGINEER:

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Project Information:

21026

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MURFREESBORO, TN 37130

Seal:

Consultant:

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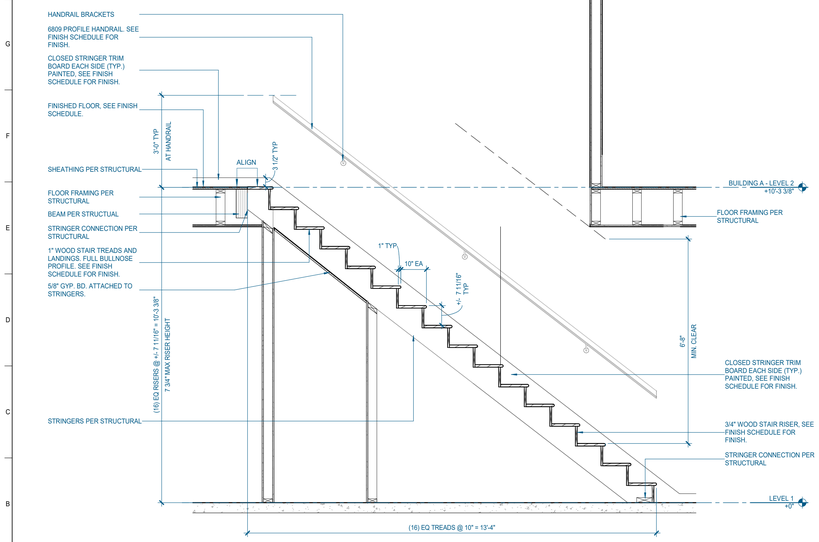
PIC	M. BUTLER
PM	M. BUTLER
PA	G. TAYLOR
Drawn By:	Author
Checked By:	J. BRADLEY

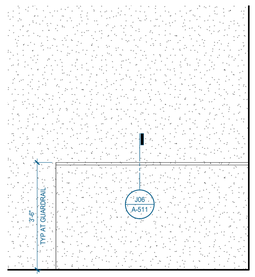
Sheet Description:

A-414

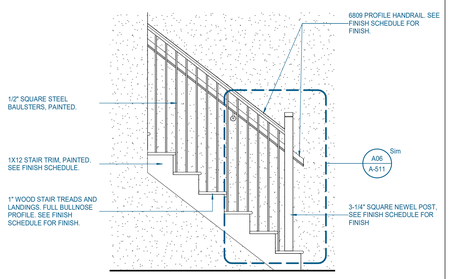
ENLARGED PLANS & ELEVATIONS - BUILDING A* UNIT A2* BATHROOM & KITCHEN



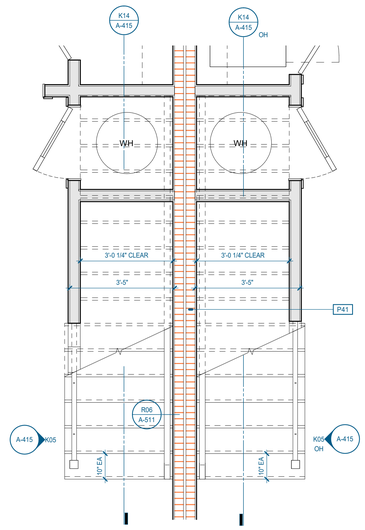
K14 BUILDING A - STAIR SECTION
1/2" = 1'-0"



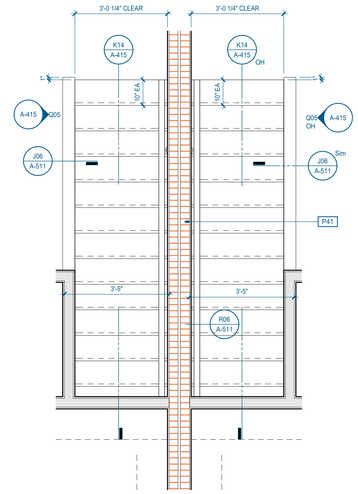
Q05 BUILDING A - STAIR GUARD WALL
1/2" = 1'-0"



K05 BUILDING A - STAIR GUARDRAIL
1/2" = 1'-0"



A10 BUILDING A - LEVEL 01 STAIR
1/2" = 1'-0"



A05 BUILDING A - LEVEL 02 STAIR
1/2" = 1'-0"

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McCarty Holsaple McCarty, Inc.
550 W. Main St., Suite 300
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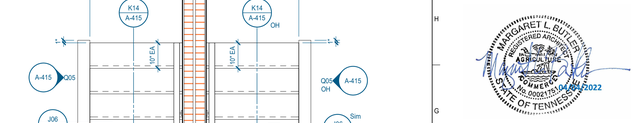

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PA	G. TAYLOR
Drawn By:	Author
Checked By:	J. BRADLEY

Sheet Description:

A-415

BUILDING A - UNIT STAIR

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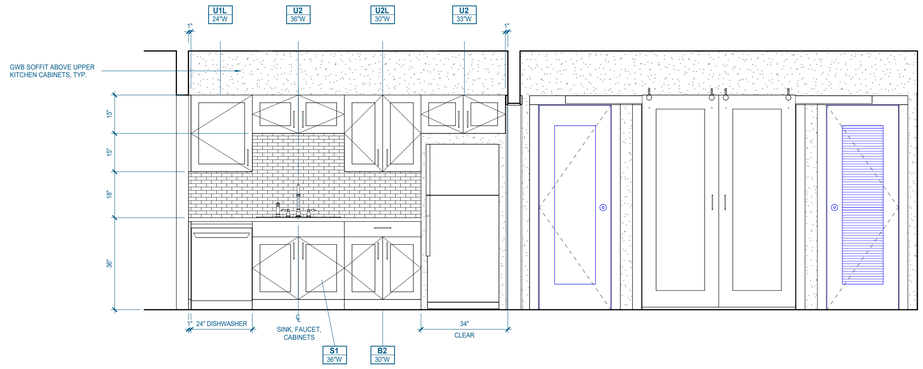
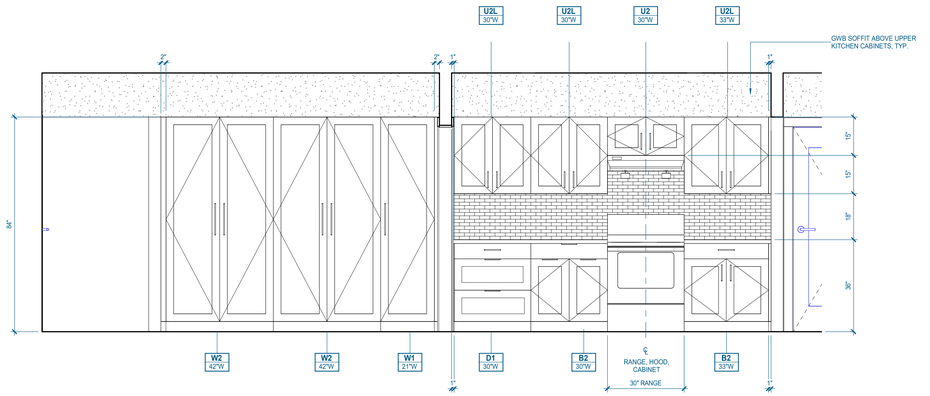
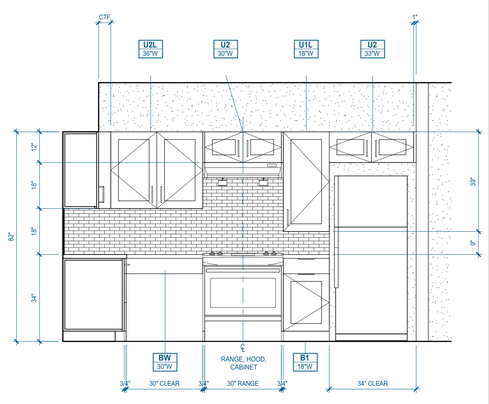


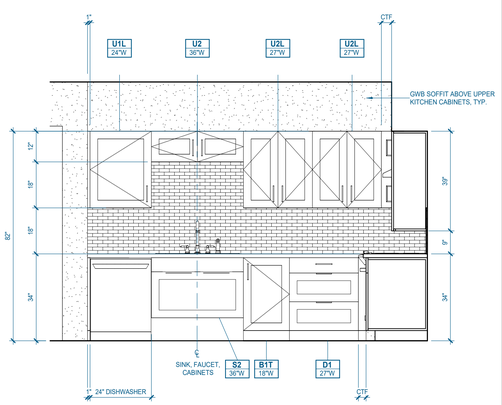
M24 BUILDING B - UNIT 1 KITCHEN - W ELEVATION
1/2" = 1'-0"



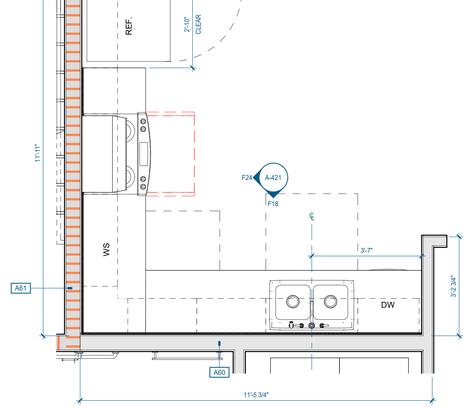
M12 BUILDING B - UNIT 1 KITCHEN - E ELEVATION
1/2" = 1'-0"



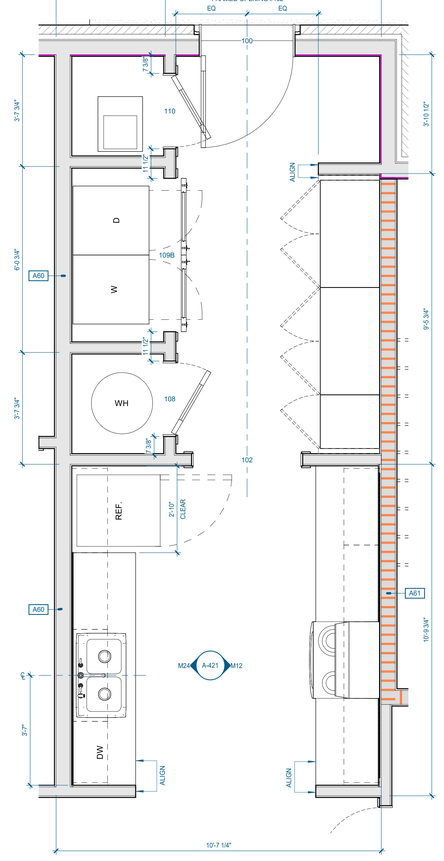
F24 BLDG B - UNIT 4 UFAS KITCHEN - W ELEVATION
1/2" = 1'-0"



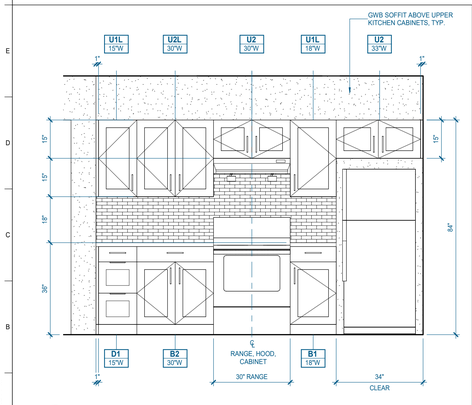
F18 BLDG B - UNIT 4 UFAS KITCHEN - S ELEVATION
1/2" = 1'-0"



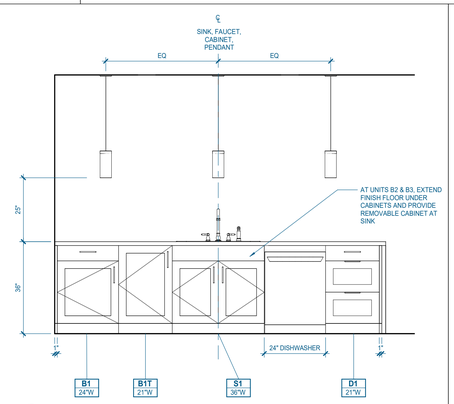
F12 BLDG B - PLAN - UNIT 4 UFAS KITCHEN
1/2" = 1'-0"



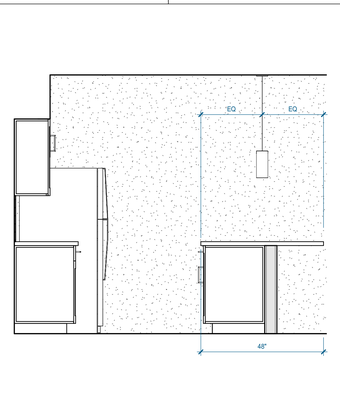
A05 BLDG B - PLAN - UNIT 1 ENTRY & KITCHEN
1/2" = 1'-0"



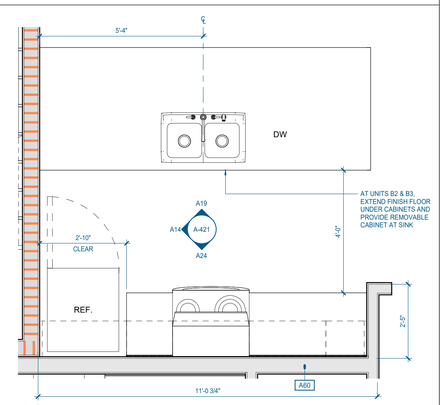
A24 BLDG B - TYP KITCHEN - S ELEVATION
1/2" = 1'-0"



A19 BLDG B - TYP KITCHEN - N ELEVATION
1/2" = 1'-0"



A14 BLDG B - TYP KITCHEN - W ELEVATION
1/2" = 1'-0"



A10 BLDG B - PLAN - TYP KITCHEN
1/2" = 1'-0"

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McCarty Holsaple McCarty, Inc.
550 W. Main St., Suite 300
Knoxville, TN 37902
t 865.544.2000
www.mhminc.com

Consultants:

CIVIL ENGINEER:

HUDDLESTON-STEELE ENGINEERING INC.
2112 N.W. BROAD ST.
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FACILITY SYSTEMS CONSULTANTS
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KNOXVILLE TN, 37902
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Drawn By:	Author
Checked By:	J. BRADLEY

Sheet Description:

A-421

ENLARGED PLANS & ELEVATIONS - BUILDING B KITCHENS

TOILET / SHOWER ACCESSORIES TYPE LEGEND

Type Mark	Type Comments
GB-1	42" HORIZONTAL GRAB BAR
GB-2	36" HORIZONTAL GRAB BAR
GB-3	18" VERTICAL GRAB BAR
GB-4	24" HORIZONTAL GRAB BAR
GB-6	48" HORIZONTAL GRAB BAR
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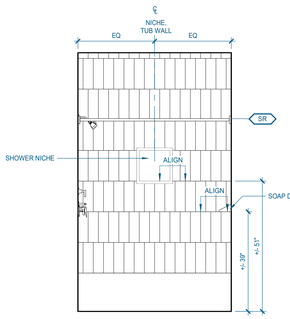
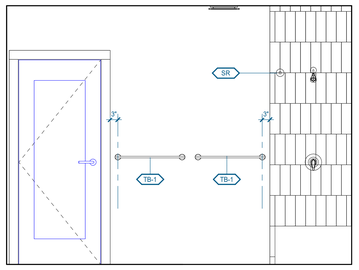
10. PROVIDE MINIMUM 1'-0" CLEAR FLOOR SPACE AT THE PUSH SIDE OF EVERY DOOR WITH A CLOSER. PROVIDE MINIMUM 1'-6" CLEAR AT THE PULL SIDE OF EVERY DOOR, UNLESS SPECIFICALLY DIMENSIONED, NOTED OR SHOWN OTHERWISE.
11. OPENINGS IN GYPSUM BOARD FOR ELECTRICAL AND COMMUNICATION RECEPTACLE, PIPING, DUCTWORK, AND OTHER PENETRATIONS SHALL MAINTAIN TIGHT TOLERANCES. EXPOSED EDGES SHALL BE COVERED BY TRIM PLATES OR ESCUTCHEONS.
12. ALL GYPSUM BOARD WALLS TO RECEIVE TILE OR FRP FINISHES SHALL HAVE TILE BACKER BOARD. ALL OTHER WALLS IN TOILET ROOM AND KITCHENS TO BE WATER-RESISTANT GYPSUM BOARD.
13. PARTITIONS NOT DIMENSIONED ARE GENERALLY LOCATED BY ONE OF THE FOLLOWING CRITERIA:
    A. CENTERLINE: CENTER OF PARTITION ALIGNS WITH THE CENTER OF GRIDLINE OR OBJECT CENTERLINE (SUCH AS A COLUMN OR MULLION). CENTER THE OVERALL PARTITION WIDTH RATHER THAN STUD WIDTH ON THE LINE.
    B. ALIGN: LOCATE PARTITION FLUSH WITH FACE OF GYPSUM BOARD, OR OTHER SURFACE INDICATED.
    C. MAINTAIN DIMENSIONS NOTED AS 'MINIMUM', 'CLEAR', OR 'HOLD'.
14. SEE A-002 FOR TYPICAL MOUNTING HEIGHTS OF PLUMBING FIXTURES AND TOILET ACCESSORIES.
15. ALL LAVATORIES AND SINKS SHALL BE MOUNTED A MINIMUM OF 1'-3" FROM THE CENTERLINE OF THE FIXTURE TO THE FINISHED FACE OF THE ADJACENT PARTITION.
16. BLOCKING TO BE PROVIDED AT ALL TOILETS AND SHOWERS/TUBS TO ALLOW FOR FUTURE GRAB BARS.
17. CONTINUOUS BLOCKING TO BE PROVIDED AT ALL WALL CABINET LOCATIONS.
18. ALL STORAGE AND LINEN CLOSETS TO RECEIVE WIRE SHELVING AT 12" INTERVALS FROM 1'-0" TO 6'-0" AFF.
19. ALL LAUNDRY ROOMS TO RECEIVE ADJUSTABLE SHELVING ON STANDARDS.
20. ALL BEDROOM CLOSETS TO RECEIVE HANGING ROD AND SHELF @ 5'-0" AFF. UFAS BEDROOM CLOSETS TO RECEIVE HANGING ROD AND SHELF @ 54" MAX AFF.
21. SLOPE ALL PORCHES AWAY FROM BUILDING @ 1/8":12" MAX. PORCH FINISH TO BE LIGHT BROOM FINISH IN DIRECTION OF SLOPE.
22. ROUTE ALL ROOF PENETRATIONS TO THE AREA INDICATED ON ROOF PLANS.



L24 BLDG B - UNIT 1 BATH 3 - N ELEVATION
1/2" = 1'-0"



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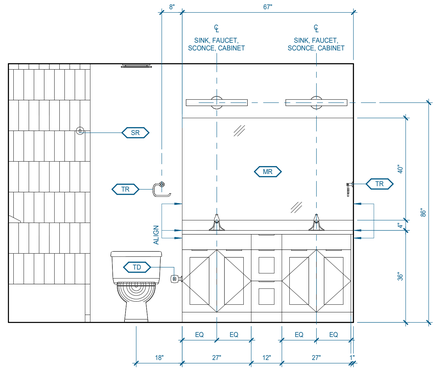

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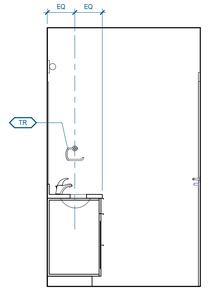
1/2" = 1'-0"



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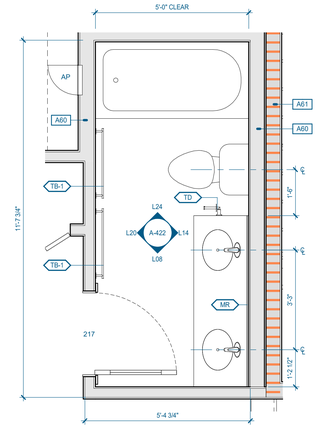

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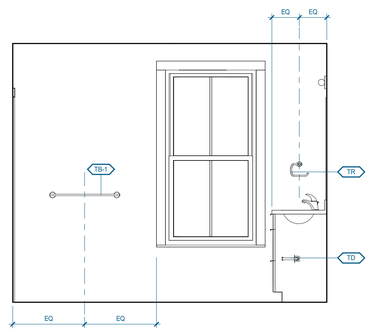

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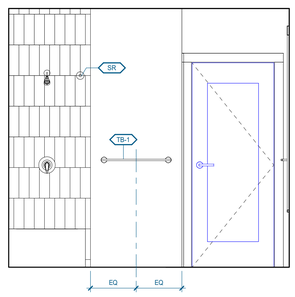
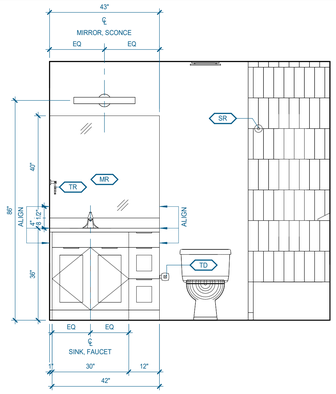
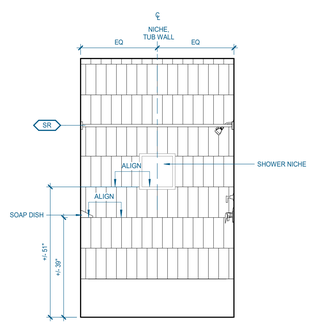
1/2" = 1'-0"



F19 BLDG B - UNIT 1 BATH 2 - W ELEVATION
1/2" = 1'-0"



F14 BLDG B - UNIT 1 BATH 2 - E ELEVATION
1/2" = 1'-0"



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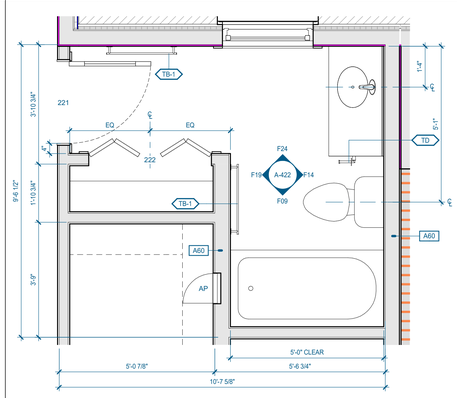

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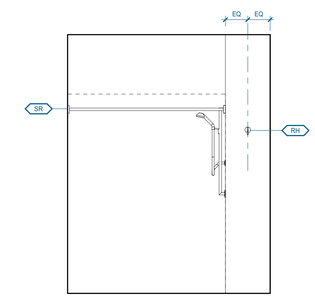
1/2" = 1'-0"



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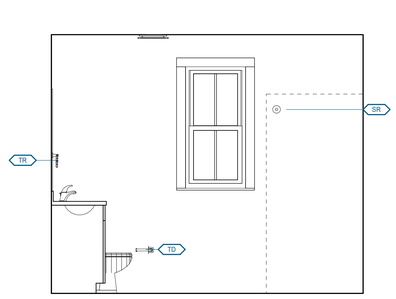
1/2" = 1'-0"



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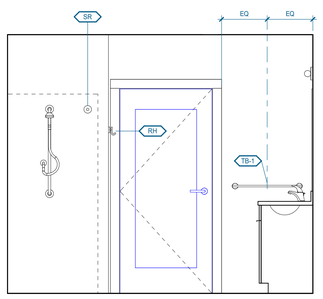
1/2" = 1'-0"



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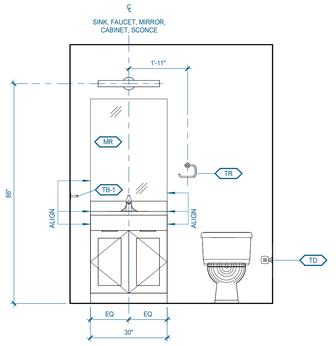
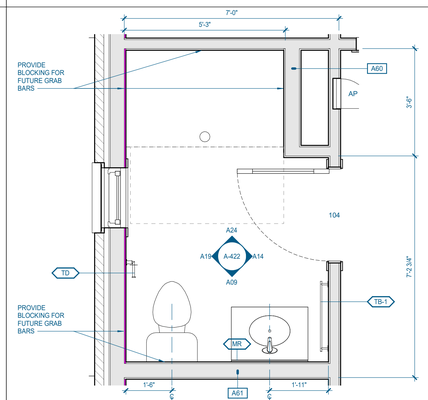
1/2" = 1'-0"



A09 BLDG B - UNIT 1 BATH 1 - S ELEVATION
1/2" = 1'-0"



A05 BLDG B - PLAN - UNIT 1 BATH 1
1/2" = 1'-0"

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McCarty Holsaple McCarty, Inc.
550 W. Main St., Suite 300
Knoxville, TN 37902
t 865.544.2000
www.mhminc.com

Consultants:

CIVIL ENGINEER:

HUDDLESTON-STEELE ENGINEERING INC.
2112 N.W. BROAD ST.
MURFREESBORO, TN 37129
615.893.4084

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100 E. VINE ST., STE 200
MURFREESBORO, TN 37130
615.546.6050

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MHA Parkside Housing

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Seal:

Consultant:

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PIC	M. BUTLER
PM	M. BUTLER
PA	G. TAYLOR
Drawn By:	Author
Checked By:	J. BRADLEY

Sheet Description:

A-422

ENLARGED PLANS & ELEVATIONS - BUILDING B BATHROOMS

TOILET / SHOWER ACCESSORIES TYPE LEGEND

Type Mark	Type Comments
GB-1	42" HORIZONTAL GRAB BAR
GB-2	36" HORIZONTAL GRAB BAR
GB-3	18" VERTICAL GRAB BAR
GB-4	24" HORIZONTAL GRAB BAR
GB-6	48" HORIZONTAL GRAB BAR
MC	MEDICINE CABINET
MR	MIRROR
RH	ROBE HOOK
RH-A	ROBE HOOK - ACCESSIBLE
SR	SHOWER CURTAIN ROD
TB-1	24" TOWEL BAR
TB-2	18" TOWEL BAR
TD	TOILET TISSUE HOLDER
TR	TOWEL RING
TR-A	TOWEL RING - ACCESSIBLE

ENLARGED PLAN AND INTERIOR ELEVATION GENERAL NOTES

1. REFER TO SHEET A-001 FOR ADDITIONAL GENERAL NOTES.
2. ALL NEW PARTITIONS SHALL BE TYPE **A40**, UNO; REFER TO PARTITION SCHEDULE FOR MORE INFORMATION.
3. TYPICAL DIMENSIONS SHOWN ON THE FLOOR PLANS FOR NEW CONSTRUCTION ARE TO THE FACE OF STUD, UNLESS OTHERWISE NOTED.
4. PLUMBING LOCATIONS ARE DIMENSIONED FROM FINISHED FACE OF DRYWALL TO PLUMBING CENTERLINE.
5. PARTITION TYPES ARE SCHEDULED IN THE A-000 SERIES. RE: G-100 SERIES "CODE COMPLIANCE PLANS/LIFE SAFETY PLANS FOR GRAPHIC EXTENT OF FIRE RATED PARTITIONS. REFER TO PARTITION TYPE SCHEDULE FOR LOCATION OF SOUND ATTENUATION BLANKETS
6. LAYOUT PARTITIONS FOR ARCHITECT TO REVIEW FOR DESIGN INTENT. DO NOT PROCEED WITH INSTALLATION OF RUNNERS OR STUDS WITHOUT THIS REVIEW.
7. LOCATE DOORS 4" FROM FACE OF INTERSECTING PARTITION TO INSIDE EDGE OF DOOR FRAME, UNO.
8. THE CONTRACTOR SHALL PATCH AND REPAIR ALL EXISTING AND NEW WALL SURFACES AS REQUIRED PRIOR TO APPLYING FINISHES.
9. THE CONTRACTOR SHALL SURVEY FLOOR ELEVATIONS TO DETERMINE SCOPE OF FLOOR LEVELING AND REMEDIAL REPAIR WORK. THE CONTRACTOR SHALL INCLUDE IN HIS SCOPE OF WORK ALL COSTS THAT ARE ASSOCIATED WITH FLOOR LEVELING AND ASSOCIATED REMEDIAL REPAIR WORK. FLOOR SHALL BE LEVEL WITHIN 1/4" IN 10'-0" RADIUS.
10. PROVIDE MINIMUM 1'-0" CLEAR FLOOR SPACE AT THE PUSH SIDE OF EVERY DOOR WITH A CLOSER. PROVIDE MINIMUM 1'-6" CLEAR AT THE PULL SIDE OF EVERY DOOR, UNLESS SPECIFICALLY DIMENSIONED, NOTED OR SHOWN OTHERWISE.
11. OPENINGS IN GYPSUM BOARD FOR ELECTRICAL AND COMMUNICATION RECEPTACLE, PIPING, DUCTWORK, AND OTHER PENETRATIONS SHALL MAINTAIN TIGHT TOLERANCES. EXPOSED EDGES SHALL BE COVERED BY TRIM PLATES OR ESCUTCHEONS.
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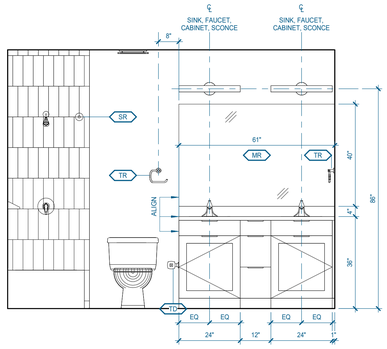
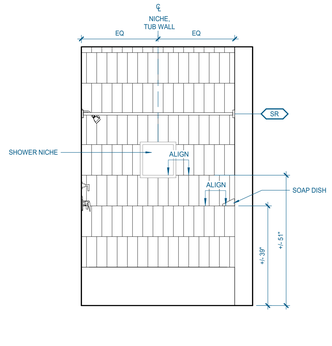
21. SLOPE ALL PORCHES AWAY FROM BUILDING @ 1/8":12" MAX. PORCH FINISH TO BE LIGHT BROOM FINISH IN DIRECTION OF SLOPE.
22. ROUTE ALL ROOF PENETRATIONS TO THE AREA INDICATED ON ROOF PLANS.



M24 BLDG B - PLAN - FL 2 & 3 TYP BATH - N ELEVATION
1/2" = 1'-0"



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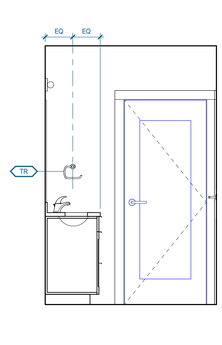
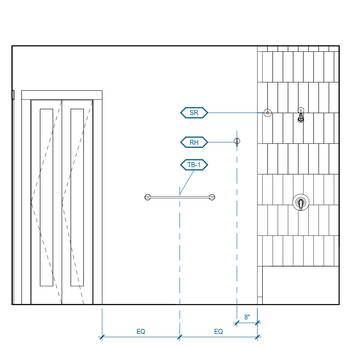
1/2" = 1'-0"



M14 BLDG B - PLAN - FL 2 & 3 TYP BATH - E ELEV
1/2" = 1'-0"



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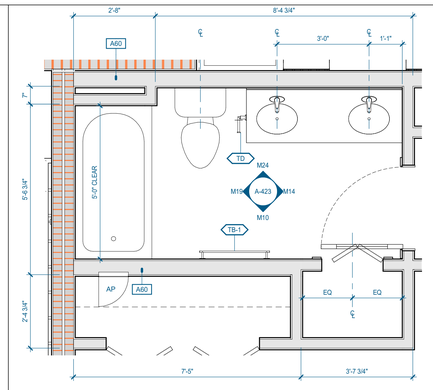
1/2" = 1'-0"



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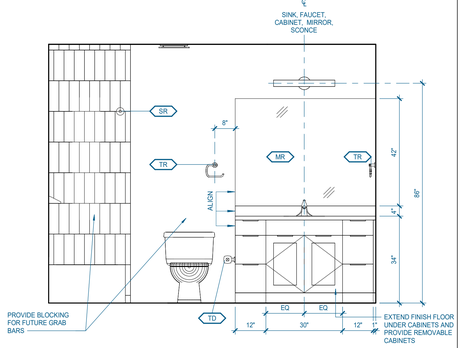
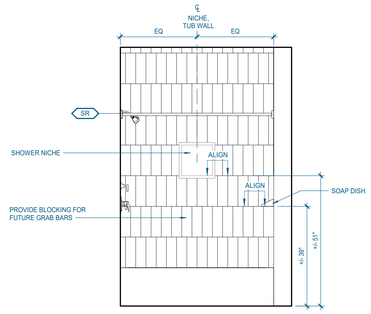
1/2" = 1'-0"



G24 BLDG B - FL 1 TYP BATH - N ELEVATION
1/2" = 1'-0"



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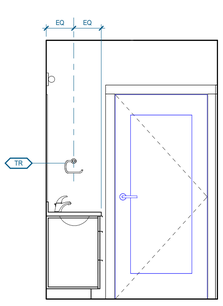
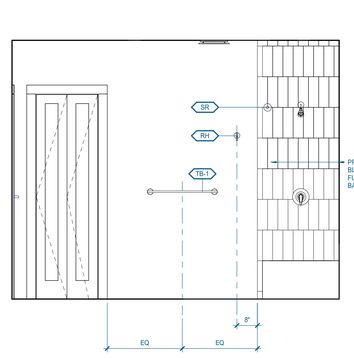
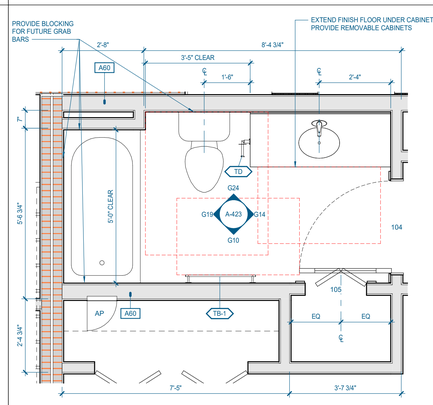
1/2" = 1'-0"



G14 BLDG B - FL 1 TYP BATH - E ELEVATION
1/2" = 1'-0"



G10 BLDG B - FL 1 TYP BATH - S ELEVATION
1/2" = 1'-0"



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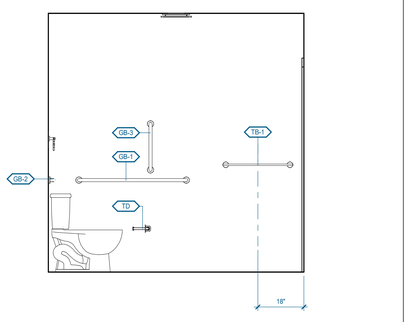
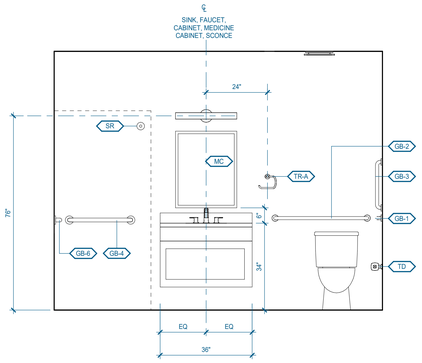
1/2" = 1'-0"



A24 BLDG B - UNIT 4 UFAS BATH - N ELEVATION
1/2" = 1'-0"



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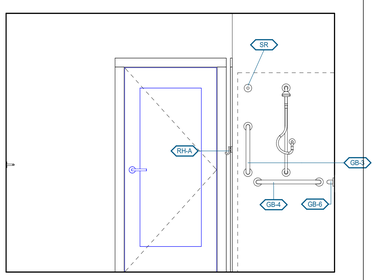
1/2" = 1'-0"



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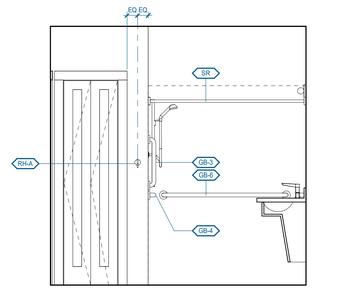

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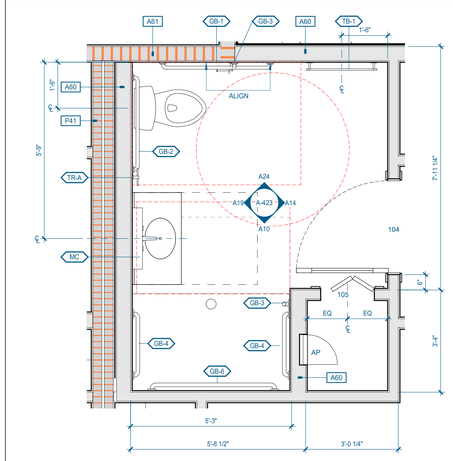

A05 BLDG B - PLAN - UNIT 4 UFAS BATH
1/2" = 1'-0"

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McCarty Holsaple McCarty, Inc.
550 W. Main St., Suite 300
Knoxville, TN 37902
t 865.544.2000
www.mhminc.com

Consultants:

CIVIL ENGINEER:

HUDDLESTON-STEELE ENGINEERING INC.
2112 N.W. BROAD ST.
MURFREESBORO, TN 37129
615.893.4084

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RAGAN SMITH
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MURFREESBORO, TN 37130
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Sheet Description:

A-423

ENLARGED PLANS & ELEVATIONS - BUILDING B BATHROOMS CONT.

TOILET / SHOWER ACCESSORIES TYPE LEGEND

Type Mark	Type Comments
GB-1	42" HORIZONTAL GRAB BAR
GB-2	36" HORIZONTAL GRAB BAR
GB-3	18" VERTICAL GRAB BAR
GB-4	24" HORIZONTAL GRAB BAR
GB-6	48" HORIZONTAL GRAB BAR
MC	MEDICINE CABINET
MR	MIRROR
RH	ROBE HOOK
RH-A	ROBE HOOK - ACCESSIBLE
SR	SHOWER CURTAIN ROD
TB-1	24" TOWEL BAR
TB-2	18" TOWEL BAR
TD	TOILET TISSUE HOLDER
TR	TOWEL RING
TR-A	TOWEL RING - ACCESSIBLE

ENLARGED PLAN AND INTERIOR ELEVATION GENERAL NOTES

1. REFER TO SHEET A-001 FOR ADDITIONAL GENERAL NOTES.
2. ALL NEW PARTITIONS SHALL BE TYPE **A40**, UNO; REFER TO PARTITION SCHEDULE FOR MORE INFORMATION.
3. TYPICAL DIMENSIONS SHOWN ON THE FLOOR PLANS FOR NEW CONSTRUCTION ARE TO THE FACE OF STUD, UNLESS OTHERWISE NOTED.
4. PLUMBING LOCATIONS ARE DIMENSIONED FROM FINISHED FACE OF DRYWALL TO PLUMBING CENTERLINE.
5. PARTITION TYPES ARE SCHEDULED IN THE A-000 SERIES. RE: G-100 SERIES "CODE COMPLIANCE PLANS/LIFE SAFETY PLANS FOR GRAPHIC EXTENT OF FIRE RATED PARTITIONS. REFER TO PARTITION TYPE SCHEDULE FOR LOCATION OF SOUND ATTENUATION BLANKETS
6. LAYOUT PARTITIONS FOR ARCHITECT TO REVIEW FOR DESIGN INTENT. DO NOT PROCEED WITH INSTALLATION OF RUNNERS OR STUDS WITHOUT THIS REVIEW.
7. LOCATE DOORS 4" FROM FACE OF INTERSECTING PARTITION TO INSIDE EDGE OF DOOR FRAME, UNO.
8. THE CONTRACTOR SHALL PATCH AND REPAIR ALL EXISTING AND NEW WALL SURFACES AS REQUIRED PRIOR TO APPLYING FINISHES.
9. THE CONTRACTOR SHALL SURVEY FLOOR ELEVATIONS TO DETERMINE SCOPE OF FLOOR LEVELING AND REMEDIAL REPAIR WORK. THE CONTRACTOR SHALL INCLUDE IN HIS SCOPE OF WORK ALL COSTS THAT ARE ASSOCIATED WITH FLOOR LEVELING AND ASSOCIATED REMEDIAL REPAIR WORK. FLOOR SHALL BE LEVEL WITHIN 1/4" IN 10'-0" RADIUS.
10. PROVIDE MINIMUM 1'-0" CLEAR FLOOR SPACE AT THE PUSH SIDE OF EVERY DOOR WITH A CLOSER. PROVIDE MINIMUM 1'-6" CLEAR AT THE PULL SIDE OF EVERY DOOR, UNLESS SPECIFICALLY DIMENSIONED, NOTED OR SHOWN OTHERWISE.
11. OPENINGS IN GYPSUM BOARD FOR ELECTRICAL AND COMMUNICATION RECEPTACLE, PIPING, DUCTWORK, AND OTHER PENETRATIONS SHALL MAINTAIN TIGHT TOLERANCES. EXPOSED EDGES SHALL BE COVERED BY TRIM PLATES OR ESCUTCHEONS.
12. ALL GYPSUM BOARD WALLS TO RECEIVE TILE OR FRP FINISHES SHALL HAVE TILE BACKER BOARD. ALL OTHER WALLS IN TOILET ROOM AND KITCHENS TO BE WATER-RESISTANT GYPSUM BOARD.
13. PARTITIONS NOT DIMENSIONED ARE GENERALLY LOCATED BY ONE OF THE FOLLOWING CRITERIA:
    - A. CENTERLINE: CENTER OF PARTITION ALIGNS WITH THE CENTER OF GRIDLINE OR OBJECT CENTERLINE (SUCH AS A COLUMN OR MULLION). CENTER THE OVERALL PARTITION WIDTH RATHER THAN STUD WIDTH ON THE LINE.
    - B. ALIGN: LOCATE PARTITION FLUSH WITH FACE OF GYPSUM BOARD, OR OTHER SURFACE INDICATED.
    - C. MAINTAIN DIMENSIONS NOTED AS 'MINIMUM', 'CLEAR', OR 'HOLD'.
14. SEE A-002 FOR TYPICAL MOUNTING HEIGHTS OF PLUMBING FIXTURES AND TOILET ACCESSORIES.
15. ALL LAVATORIES AND SINKS SHALL BE MOUNTED A MINIMUM OF 1'-3" FROM THE CENTERLINE OF THE FIXTURE TO THE FINISHED FACE OF THE ADJACENT PARTITION.
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18. ALL STORAGE AND LINEN CLOSETS TO RECEIVE WIRE SHELVING AT 12" INTERVALS FROM 1'-0" TO 6'-0" AFF.
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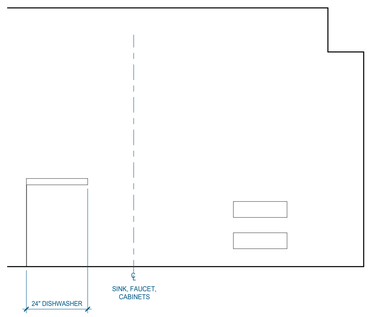
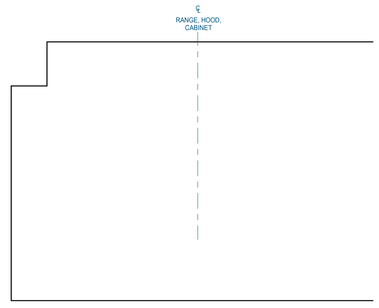
20. ALL BEDROOM CLOSETS TO RECEIVE HANGING ROD AND SHELF @ 5'-0" AFF. UFAS BEDROOM CLOSETS TO RECEIVE HANGING ROD AND SHELF @ 54" MAX AFF.
21. SLOPE ALL PORCHES AWAY FROM BUILDING @ 1/8":12" MAX. PORCH FINISH TO BE LIGHT BROOM FINISH IN DIRECTION OF SLOPE.
22. ROUTE ALL ROOF PENETRATIONS TO THE AREA INDICATED ON ROOF PLANS.

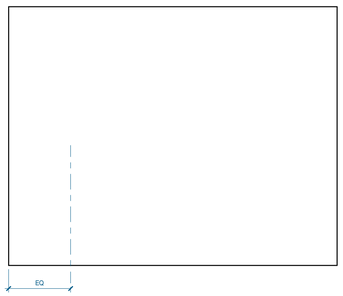


H24 BLDG B* - UNIT 4 KITCHEN - S ELEVATION
1/2" = 1'-0"

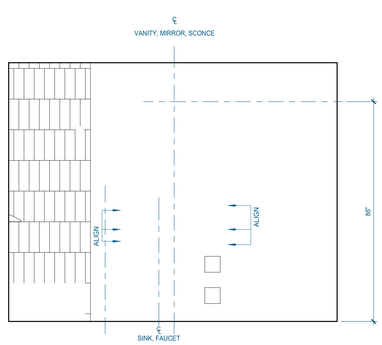


H16 BLDG B* - UNIT 4 KITCHEN - W ELEVATION
1/2" = 1'-0"

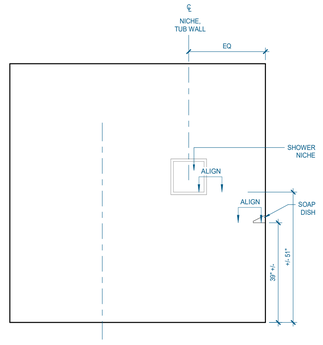
H08 BUILDING B* - PLAN - UNIT B4* KITCHEN
1/2" = 1'-0"



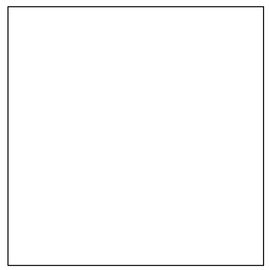
A24 BLDG B* - UNIT 4 BATH - E ELEVATION
1/2" = 1'-0"



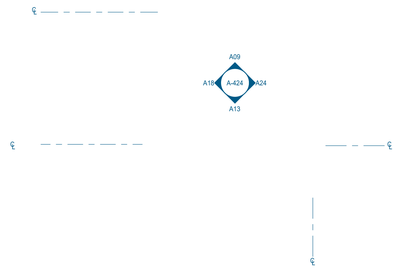
A18 BLDG B* - UNIT 4 BATH - W ELEVATION
1/2" = 1'-0"



A13 BLDG B* - UNIT 4 BATH - S ELEVATION
1/2" = 1'-0"



A09 BLDG B* - UNIT 4 BATH - N ELEVATION
1/2" = 1'-0"



A05 BUILDING B* - PLAN - UNIT B4* BATH
1/2" = 1'-0"

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McCarty Holsaple McCarty, Inc.
550 W. Main St., Suite 300
Knoxville, TN 37902
t 865.544.2000
www.mhminc.com

Consultants:

CIVIL ENGINEER:
HUDDLESTON-STEELE ENGINEERING INC.
2112 N.W. BROAD ST.
MURFREESBORO, TN 37129
615.893.4084

LANDSCAPE ARCHITECT:
RAGAN SMITH
100 E. VINE ST., STE 200
MURFREESBORO, TN 37130
615.546.6050

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HAINES STRUCTURAL GROUP
800 S. GAY ST., STE 1750
KNOXVILLE TN, 37929
865.329.9920

MECHANICAL & PLUMBING ENGINEER:
FACILITY SYSTEMS CONSULTANTS
713 S. CENTRAL ST., STE 101
KNOXVILLE TN, 37902
865.246.0164

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KNOXVILLE TN, 37902
865.246.0164

Project Information:

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520 EAST CASTLE STREET,
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Seal:

Consultant:

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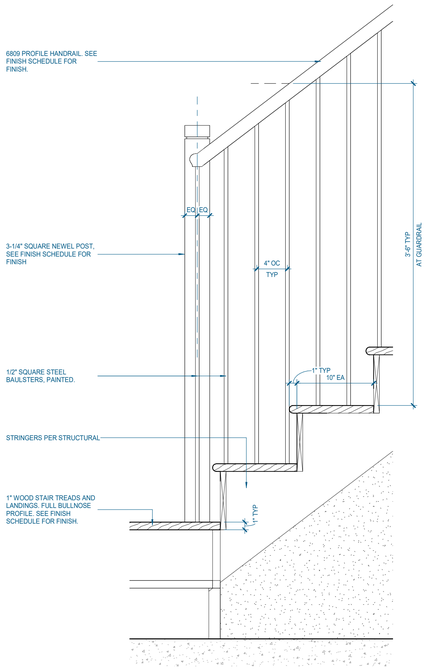
PIC	M. BUTLER
PM	M. BAYLOR
PA	G. TAYLOR
Drawn By:	Author
Checked By:	J. BRADLEY

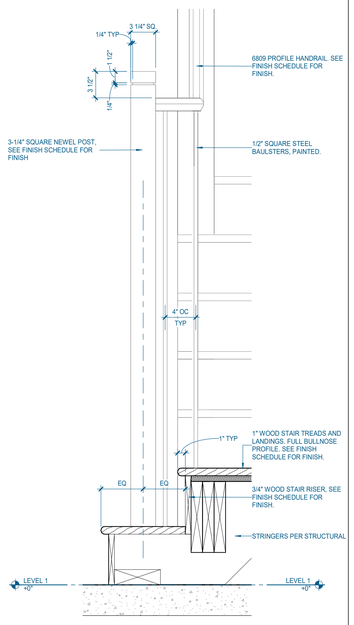
Sheet Description:

A-424

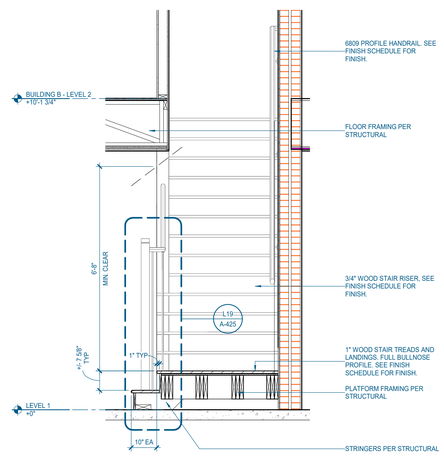
ENLARGED PLANS & ELEVATIONS - BUILDING B* UNIT B4* BATHROOM & KITCHEN



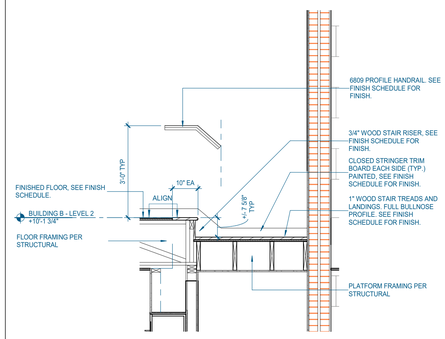
L24 BLDG B - UNIT 1 STAIR - GUARDRAIL AT LANDING
1 1/2" = 1'-0"



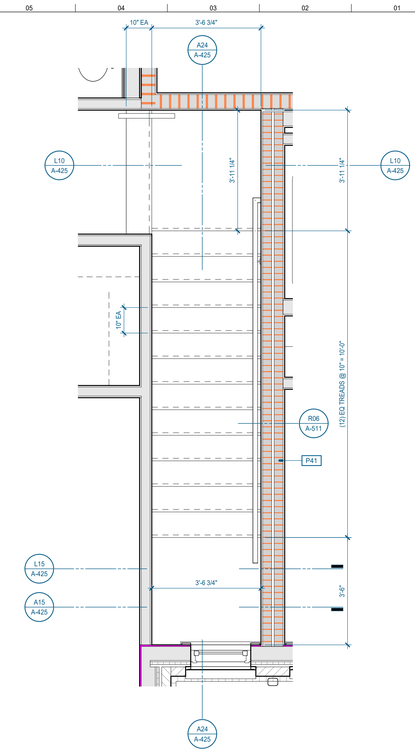
L19 BLDG B - UNIT 1 STAIR - GUARDRAIL
1 1/2" = 1'-0"



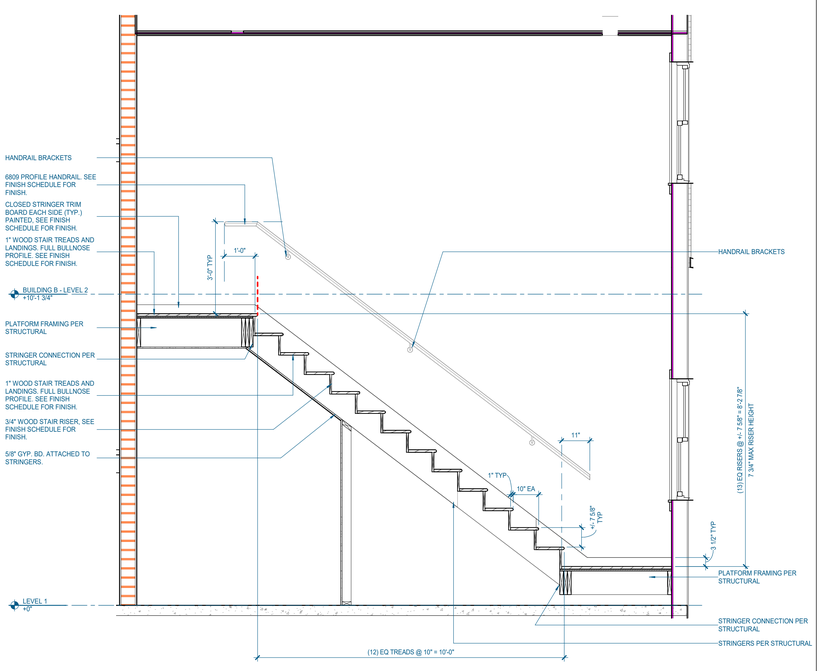
L15 BLDG B - UNIT 1 STAIR - SECTION AT LANDING 01
1/2" = 1'-0"



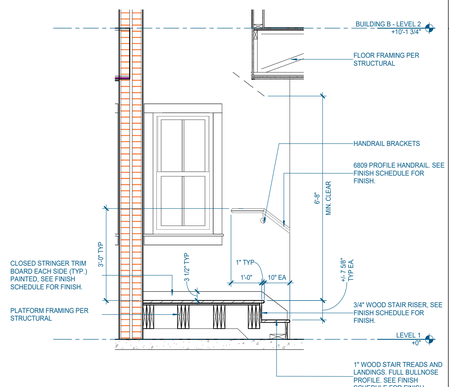
L10 BLDG B - UNIT 1 STAIR - SECTION AT LANDING 02
1/2" = 1'-0"



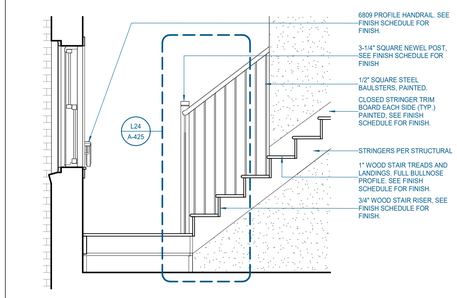
L05 BUILDING B - LEVEL 02 PLAN - UNIT 1 STAIR
1/2" = 1'-0"



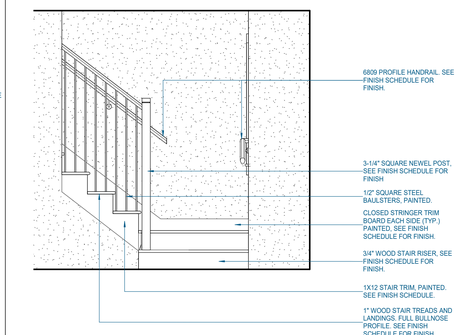
A24 BUILDING B - LONGITUDINAL STAIR SECTION
1/2" = 1'-0"



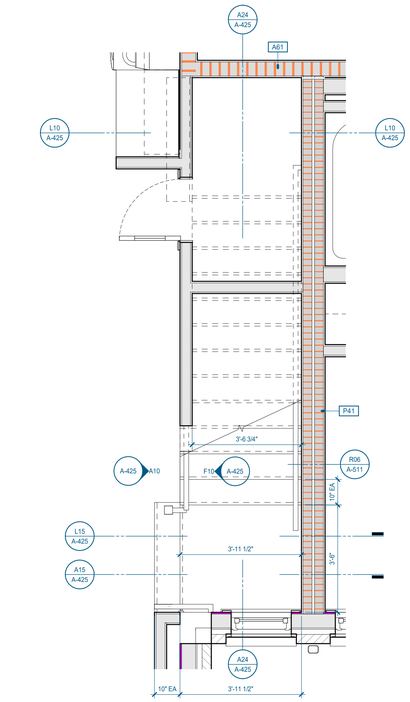
A15 BLDG B - UNIT 1 STAIR - SECTION AT LANDING 01
1/2" = 1'-0"



F10 BLDG B - UNIT 1 LEVEL 01 GUARDRAIL - ELEVATION
1/2" = 1'-0"



A10 BLDG B - UNIT 1 LEVEL 01 STAIR - ELEVATION
1/2" = 1'-0"



A05 BUILDING B - LEVEL 01 PLAN - UNIT 1 STAIR
1/2" = 1'-0"

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McCarty Holsaple McCarty, Inc.
550 W. Main St., Suite 300
Knoxville, TN 37902
t.865.544.2000
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KNOXVILLE TN, 37902
865.246.0164

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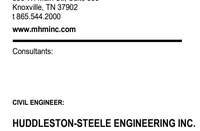

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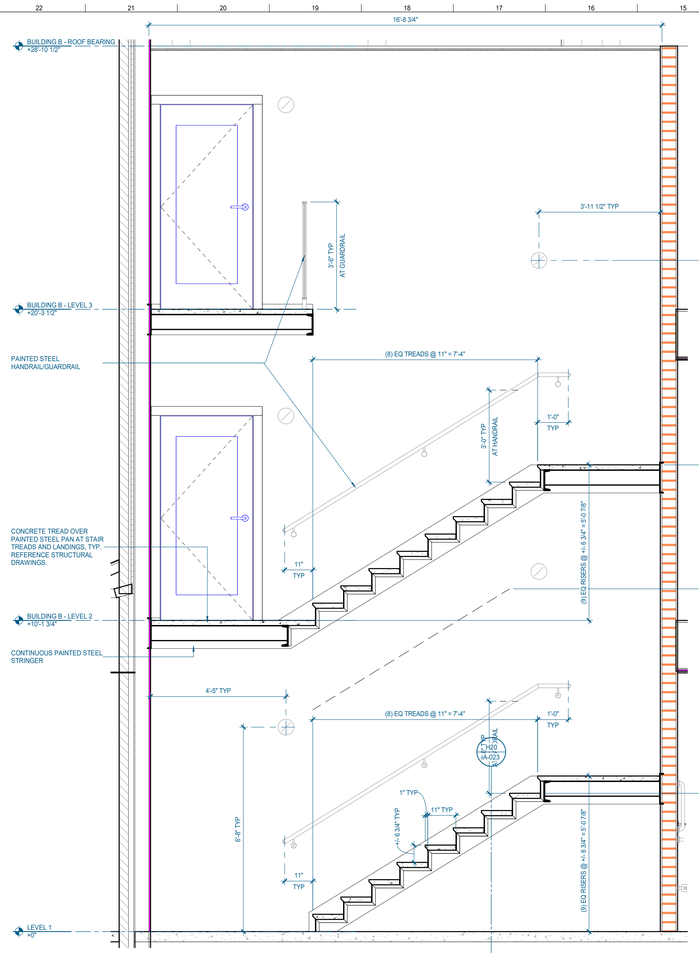
PIC	M. BUTLER
PM	M. BUTLER
PA	G. TAYLOR
Drawn By:	Author
Checked By:	J. BRADLEY

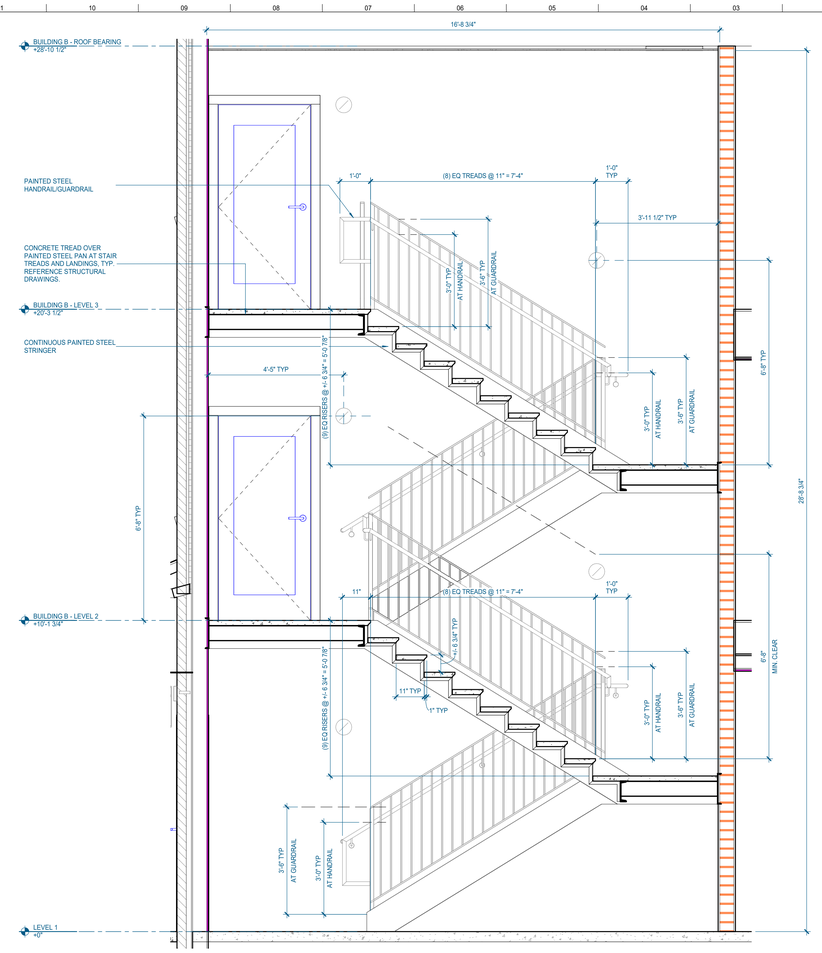
Sheet Description:

A-425

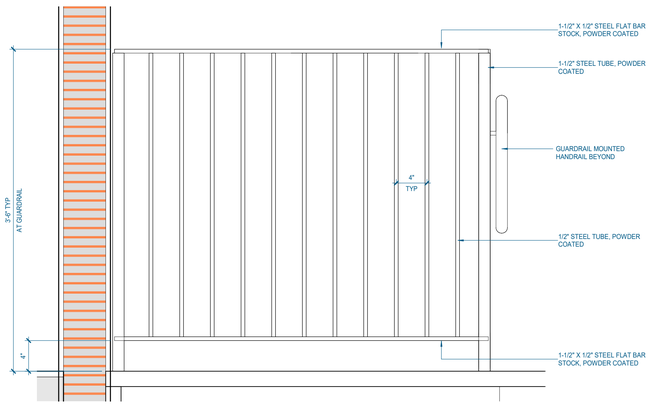
BUILDING B - UNIT 1 STAIR



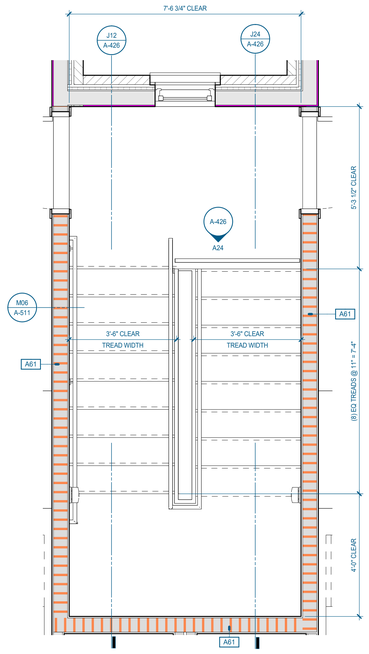
J24 BUILDING B - SHARED STAIR SECTION
1/2" = 1'-0"



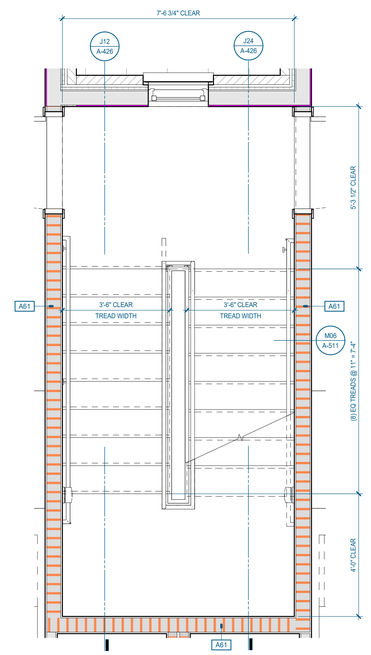
J12 BUILDING B - SHARED STAIR SECTION
1/2" = 1'-0"



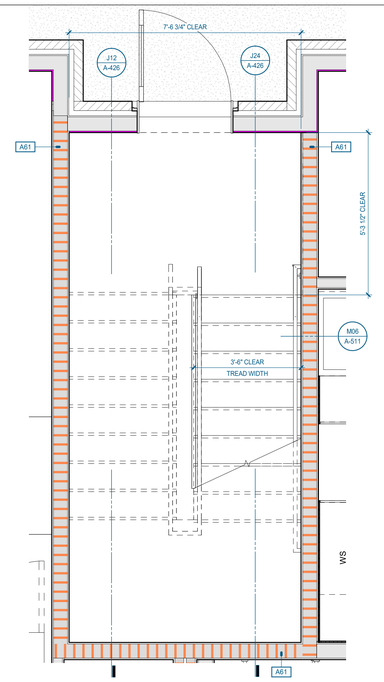
A24 BUILDIN B - SHARED STAIR GUARD RAIL ENLARGED ELEVATION
1 1/2" = 1'-0"



A15 BUILDING B - SHARED STAIR LEVEL 03
1/2" = 1'-0"



A10 BUILDING B - SHARED STAIR LEVEL 02
1/2" = 1'-0"



A05 BUILDING B - SHARED STAIR LEVEL 01
1/2" = 1'-0"

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550 W. Main St., Suite 300
Knoxville, TN 37902
t.865.544.2000
www.mhminc.com

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2112 N.W. BROAD ST.
MURFREESBORO, TN 37129
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KNOXVILLE TN, 37929
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FACILITY SYSTEMS CONSULTANTS
713 S. CENTRAL ST., STE 101
KNOXVILLE TN, 37902
865.246.0164

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KNOXVILLE TN, 37902
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Drawn By:	Author
Checked By:	J. BRADLEY

Sheet Description:

A-426

BUILDING B - SHARED STAIR

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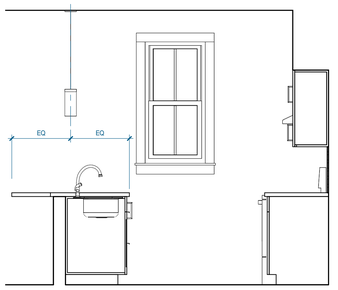
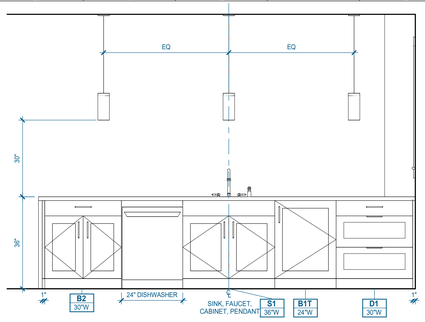
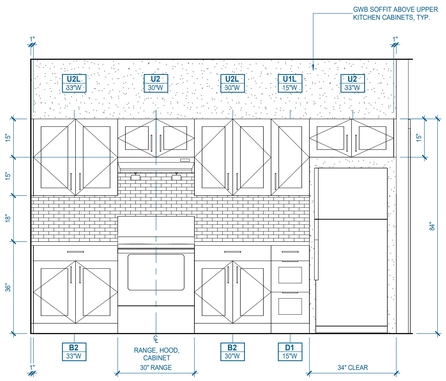


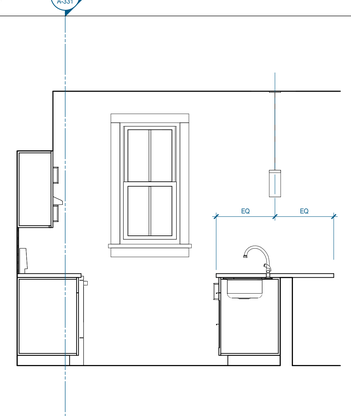
R24 BLDG C - UNIT 8 KITCHEN - E ELEVATION
1/2" = 1'-0"



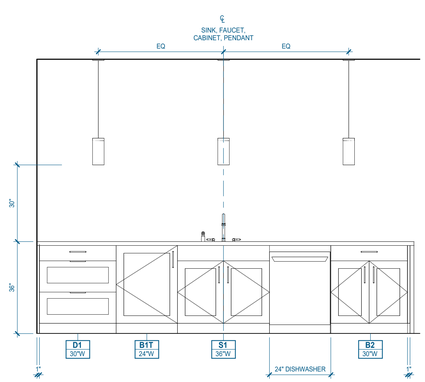
R20 BLDG C - UNIT 8 KITCHEN - N ELEVATION
1/2" = 1'-0"



L24 BLDG C - UNIT 5 & 8 KITCHEN - S ELEVATION
1/2" = 1'-0"



L19 BLDG C - UNIT 5 KITCHEN - W ELEVATION
1/2" = 1'-0"



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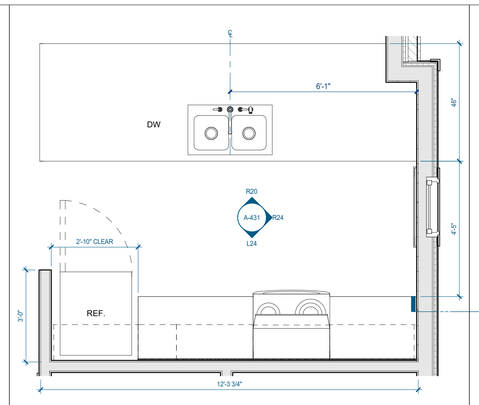
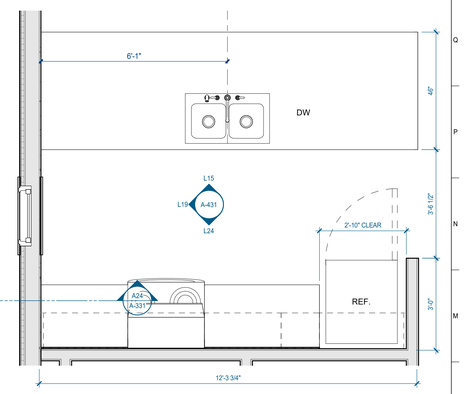
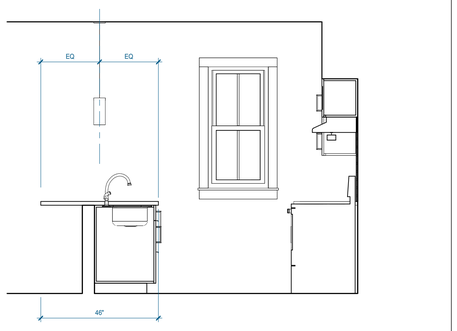
1/2" = 1'-0"



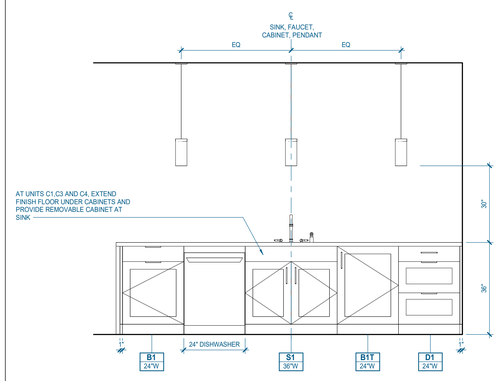
L10 BLDG C - PLAN - UNIT 8 KITCHEN
1/2" = 1'-0"



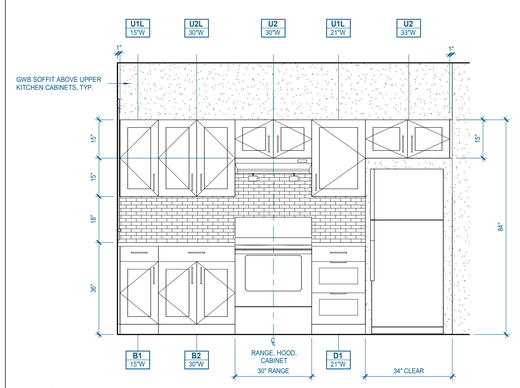
L05 BLDG C - PLAN - UNIT 5 KITCHEN
1/2" = 1'-0"



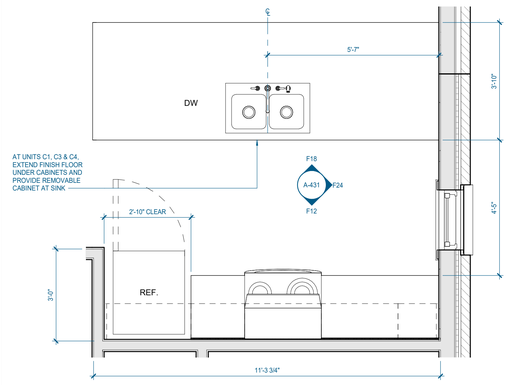
F24 BLDG C - TYP KITCHEN - E ELEVATION
1/2" = 1'-0"



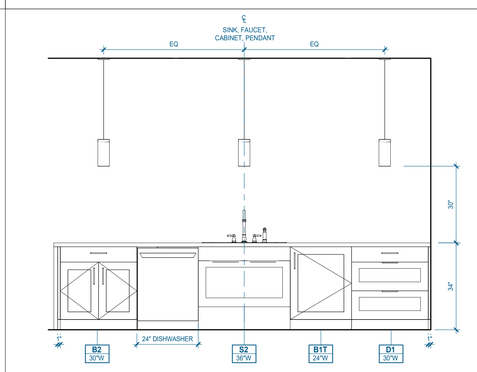
F18 BLDG C - TYP KITCHEN - N ELEVATION
1/2" = 1'-0"



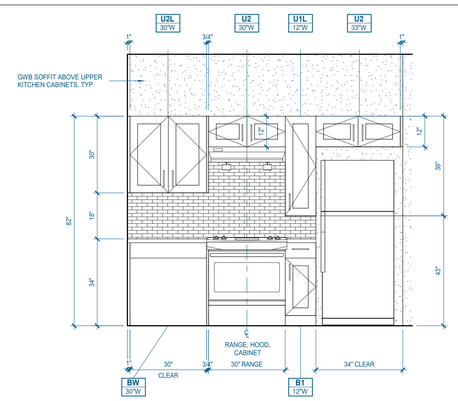
F12 BLDG C - TYP KITCHEN - S ELEVATION
1/2" = 1'-0"



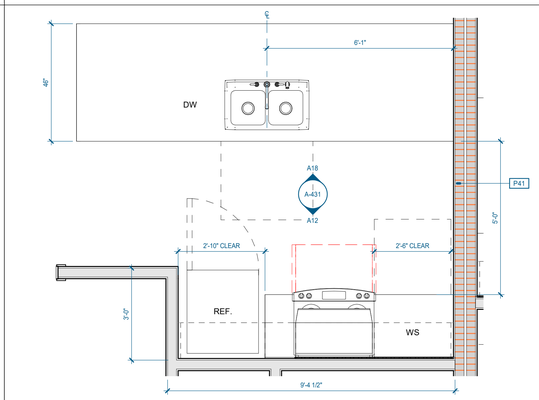
F06 BLDG C - PLAN - TYP KITCHEN
1/2" = 1'-0"



A18 BLDG C - UNIT 2 UFAS KITCHEN - N ELEVATION
1/2" = 1'-0"



A12 BLDG C - UNIT 2 UFAS KITCHEN - S ELEVATION
1/2" = 1'-0"



A06 BLDG C - PLAN - UNIT 2 UFAS KITCHEN
1/2" = 1'-0"

MHM

McCarty Holsaple McCarty, Inc.
550 W. Main St., Suite 300
Knoxville, TN 37902
t 865.544.2000
www.mhminc.com

Consultants:

CIVIL ENGINEER:
HUDDLESTON-STEELE ENGINEERING INC.
2112 N.W. BROAD ST.
MURFREESBORO, TN 37129
615.893.4084

LANDSCAPE ARCHITECT:
RAGAN SMITH
100 E. VINE ST., STE 200
MURFREESBORO, TN 37130
615.546.6050

STRUCTURAL ENGINEER:
HAINES STRUCTURAL GROUP
800 S. GAY ST., STE 1750
KNOXVILLE TN, 37929
865.329.9920

MECHANICAL & PLUMBING ENGINEER:
FACILITY SYSTEMS CONSULTANTS
713 S. CENTRAL ST., STE 101
KNOXVILLE TN, 37902
865.246.0164

ELECTRICAL ENGINEER:
FACILITY SYSTEMS CONSULTANTS
713 S. CENTRAL ST., STE 101
KNOXVILLE TN, 37902
865.246.0164

Project Information:

21026

MHA Parkside Housing

520 EAST CASTLE STREET,
MURFREESBORO, TN 37130

Seal:

Consultant:

#	ISSUE	DATE

Issue Date:	04/04/2022
PIC	M. BUTLER
PM	M. BUTLER
PA	G. TAYLOR
Drawn By:	Author
Checked By:	J. BRADLEY

Sheet Description:

A-431

ENLARGED PLANS & ELEVATIONS - BUILDING C KITCHENS

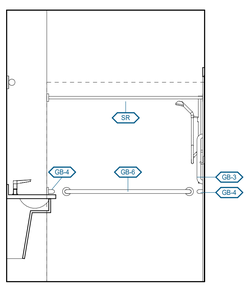
11/15/2023 2:55:43 PM

TOILET / SHOWER ACCESSORIES TYPE LEGEND

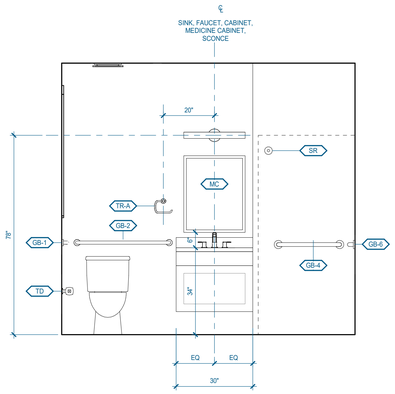
Type Mark	Type Comments
GB-1	42" HORIZONTAL GRAB BAR
GB-2	36" HORIZONTAL GRAB BAR
GB-3	18" VERTICAL GRAB BAR
GB-4	24" HORIZONTAL GRAB BAR
GB-6	48" HORIZONTAL GRAB BAR
MC	MEDICINE CABINET
MR	MIRROR
RH	ROBE HOOK
RH-A	ROBE HOOK - ACCESSIBLE
SR	SHOWER CURTAIN ROD
TB-1	24" TOWEL BAR
TB-2	18" TOWEL BAR
TD	TOILET TISSUE HOLDER
TR	TOWEL RING
TR-A	TOWEL RING - ACCESSIBLE

ENLARGED PLAN AND INTERIOR ELEVATION GENERAL NOTES

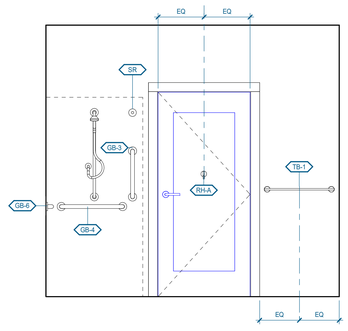
1. REFER TO SHEET A-001 FOR ADDITIONAL GENERAL NOTES.
2. ALL NEW PARTITIONS SHALL BE TYPE **A40**, UNO; REFER TO PARTITION SCHEDULE FOR MORE INFORMATION.
3. TYPICAL DIMENSIONS SHOWN ON THE FLOOR PLANS FOR NEW CONSTRUCTION ARE TO THE FACE OF STUD, UNLESS OTHERWISE NOTED.
4. PLUMBING LOCATIONS ARE DIMENSIONED FROM FINISHED FACE OF DRYWALL TO PLUMBING CENTERLINE.
5. PARTITION TYPES ARE SCHEDULED IN THE A-000 SERIES. RE: G-100 SERIES "CODE COMPLIANCE PLANS/LIFE SAFETY PLANS FOR GRAPHIC EXTENT OF FIRE RATED PARTITIONS. REFER TO PARTITION TYPE SCHEDULE FOR LOCATION OF SOUND ATTENUATION BLANKETS
6. LAYOUT PARTITIONS FOR ARCHITECT TO REVIEW FOR DESIGN INTENT. DO NOT PROCEED WITH INSTALLATION OF RUNNERS OR STUDS WITHOUT THIS REVIEW.
7. LOCATE DOORS 4" FROM FACE OF INTERSECTING PARTITION TO INSIDE EDGE OF DOOR FRAME, UNO.
8. THE CONTRACTOR SHALL PATCH AND REPAIR ALL EXISTING AND NEW WALL SURFACES AS REQUIRED PRIOR TO APPLYING FINISHES.
9. THE CONTRACTOR SHALL SURVEY FLOOR ELEVATIONS TO DETERMINE SCOPE OF FLOOR LEVELING AND REMEDIAL REPAIR WORK. THE CONTRACTOR SHALL INCLUDE IN HIS SCOPE OF WORK ALL COSTS THAT ARE ASSOCIATED WITH FLOOR LEVELING AND ASSOCIATED REMEDIAL REPAIR WORK. FLOOR SHALL BE LEVEL WITHIN 1/4" IN 10'-0" RADIUS.
10. PROVIDE MINIMUM 1'-0" CLEAR FLOOR SPACE AT THE PUSH SIDE OF EVERY DOOR WITH A CLOSER. PROVIDE MINIMUM 1'-6" CLEAR AT THE PULL SIDE OF EVERY DOOR, UNLESS SPECIFICALLY DIMENSIONED, NOTED OR SHOWN OTHERWISE.
11. OPENINGS IN GYPSUM BOARD FOR ELECTRICAL AND COMMUNICATION RECEPTACLE, PIPING, DUCTWORK, AND OTHER PENETRATIONS SHALL MAINTAIN TIGHT TOLERANCES. EXPOSED EDGES SHALL BE COVERED BY TRIM PLATES OR ESCUTCHEONS.
12. ALL GYPSUM BOARD WALLS TO RECEIVE TILE OR FRP FINISHES SHALL HAVE TILE BACKER BOARD. ALL OTHER WALLS IN TOILET ROOM AND KITCHENS TO BE WATER-RESISTANT GYPSUM BOARD.
13. PARTITIONS NOT DIMENSIONED ARE GENERALLY LOCATED BY ONE OF THE FOLLOWING CRITERIA:
    A. CENTERLINE: CENTER OF PARTITION ALIGNS WITH THE CENTER OF GRIDLINE OR OBJECT CENTERLINE (SUCH AS A COLUMN OR MULLION). CENTER THE OVERALL PARTITION WIDTH RATHER THAN STUD WIDTH ON THE LINE.
    B. ALIGN: LOCATE PARTITION FLUSH WITH FACE OF GYPSUM BOARD, OR OTHER SURFACE INDICATED.
    C. MAINTAIN DIMENSIONS NOTED AS 'MINIMUM', 'CLEAR', OR 'HOLD'.
14. SEE A-002 FOR TYPICAL MOUNTING HEIGHTS OF PLUMBING FIXTURES AND TOILET ACCESSORIES.
15. ALL LAVATORIES AND SINKS SHALL BE MOUNTED A MINIMUM OF 1'-3" FROM THE CENTERLINE OF THE FIXTURE TO THE FINISHED FACE OF THE ADJACENT PARTITION.
16. BLOCKING TO BE PROVIDED AT ALL TOILETS AND SHOWERS/TUBS TO ALLOW FOR FUTURE GRAB BARS.
17. CONTINUOUS BLOCKING TO BE PROVIDED AT ALL WALL CABINET LOCATIONS.
18. ALL STORAGE AND LINEN CLOSETS TO RECEIVE WIRE SHELVING AT 12" INTERVALS FROM 1'-0" TO 6'-0" AFF.
19. ALL LAUNDRY ROOMS TO RECEIVE ADJUSTABLE SHELVING ON STANDARDS.
20. ALL BEDROOM CLOSETS TO RECEIVE HANGING ROD AND SHELF @ 5'-0" AFF. UFAS BEDROOM CLOSETS TO RECEIVE HANGING ROD AND SHELF @ 54" MAX AFF.
21. SLOPE ALL PORCHES AWAY FROM BUILDING @ 1/8":12" MAX. PORCH FINISH TO BE LIGHT BROOM FINISH IN DIRECTION OF SLOPE.
22. ROUTE ALL ROOF PENETRATIONS TO THE AREA INDICATED ON ROOF PLANS.



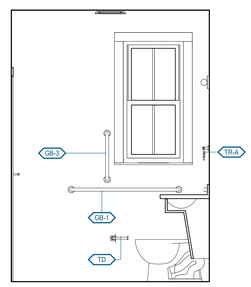
G24 BLDG C - UNIT 2 UFAS BATH - N ELEVATION
1/2" = 1'-0"



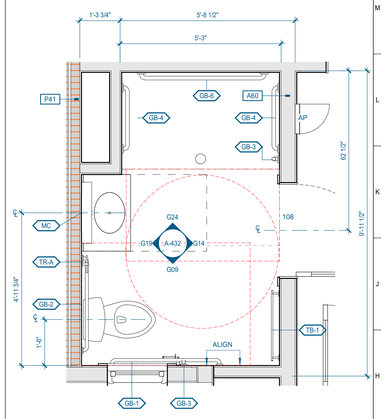
G19 BLDG C - UNIT 2 UFAS BATH - W ELEVATION
1/2" = 1'-0"



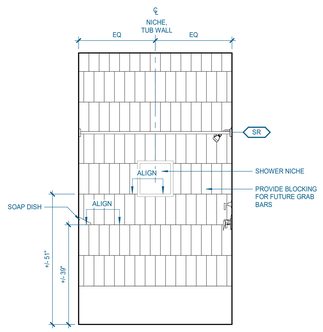
G14 BLDG C - UNIT 2 UFAS BATH - E ELEVATION
1/2" = 1'-0"



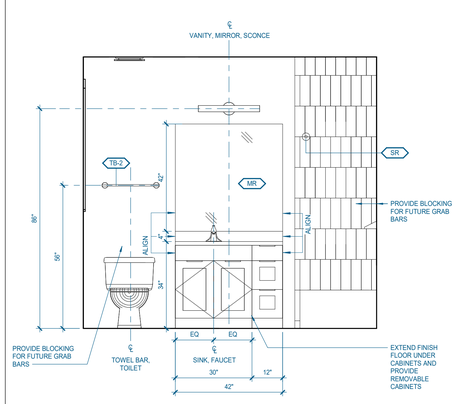
G09 BLDG C - UNIT 2 UFAS BATH - S ELEVATION
1/2" = 1'-0"



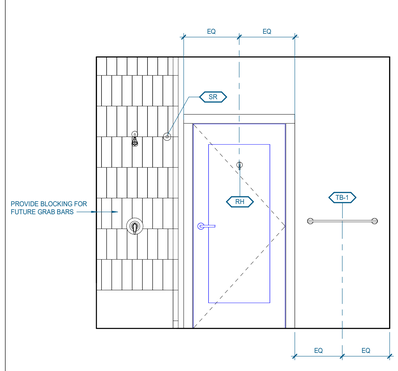
G04 BLDG C - PLAN - UNIT 2 UFAS BATH
1/2" = 1'-0"



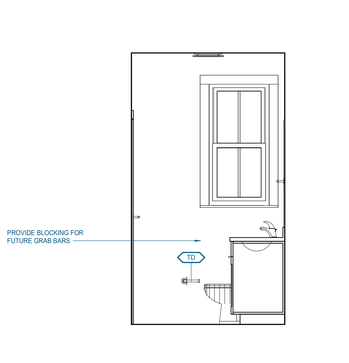
A24 BLDG C -FL 1 TYP BATH - N ELEVATION
1/2" = 1'-0"



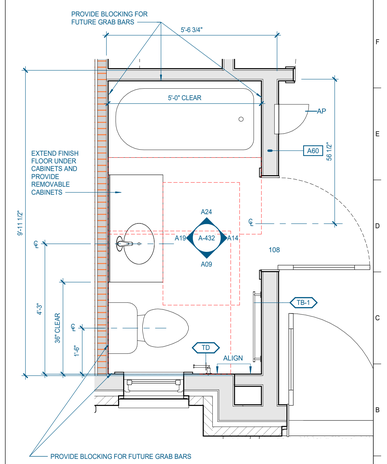
A19 BLDG C - FL 1 TYP BATH - W ELEVATION
1/2" = 1'-0"



A14 BLDG C - FL 1 TYP BATH - E ELEVATION
1/2" = 1'-0"



A09 BLDG C - FL 1 TYP BATH - S ELEVATION
1/2" = 1'-0"



A04 BLDG C - PLAN - FL 1 TYP BATH
1/2" = 1'-0"

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MHM

McCarty Holsaple McCarty, Inc.
550 W. Main St., Suite 300
Knoxville, TN 37902
t 865.544.2000
www.mhminc.com

Consultants:

CIVIL ENGINEER:

HUDDLESTON-STEELE ENGINEERING INC.
2112 N.W. BROAD ST.
MURFREESBORO, TN 37129
615.893.4084

LANDSCAPE ARCHITECT:

RAGAN SMITH
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MURFREESBORO, TN 37130
615.546.6050

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HAINES STRUCTURAL GROUP
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KNOXVILLE TN, 37929
865.329.9920

MECHANICAL & PLUMBING ENGINEER:

FACILITY SYSTEMS CONSULTANTS
713 S. CENTRAL ST., STE 101
KNOXVILLE TN, 37902
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ELECTRICAL ENGINEER:

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21026

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Seal:

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Issue Date:	04/04/2022
PIC	M. BUTLER
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PA	G. TAYLOR
Drawn By:	Author
Checked By:	J. BRADLEY

Sheet Description:

A-432

ENLARGED PLANS & ELEVATIONS - BUILDING C BATHROOMS

TOILET / SHOWER ACCESSORIES TYPE LEGEND

Type Mark	Type Comments
GB-1	42" HORIZONTAL GRAB BAR
GB-2	36" HORIZONTAL GRAB BAR
GB-3	18" VERTICAL GRAB BAR
GB-4	24" HORIZONTAL GRAB BAR
GB-6	48" HORIZONTAL GRAB BAR
MC	MEDICINE CABINET
MR	MIRROR
RH	ROBE HOOK
RH-A	ROBE HOOK - ACCESSIBLE
SR	SHOWER CURTAIN ROD
TB-1	24" TOWEL BAR
TB-2	18" TOWEL BAR
TD	TOILET TISSUE HOLDER
TR	TOWEL RING
TR-A	TOWEL RING - ACCESSIBLE

ENLARGED PLAN AND INTERIOR ELEVATION GENERAL NOTES

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6. LAYOUT PARTITIONS FOR ARCHITECT TO REVIEW FOR DESIGN INTENT. DO NOT PROCEED WITH INSTALLATION OF RUNNERS OR STUDS WITHOUT THIS REVIEW.
7. LOCATE DOORS 4" FROM FACE OF INTERSECTING PARTITION TO INSIDE EDGE OF DOOR FRAME, UNO.
8. THE CONTRACTOR SHALL PATCH AND REPAIR ALL EXISTING AND NEW WALL SURFACES AS REQUIRED PRIOR TO APPLYING FINISHES.
9. THE CONTRACTOR SHALL SURVEY FLOOR ELEVATIONS TO DETERMINE SCOPE OF FLOOR LEVELING AND REMEDIAL REPAIR WORK. THE CONTRACTOR SHALL INCLUDE IN HIS SCOPE OF WORK ALL COSTS THAT ARE ASSOCIATED WITH FLOOR LEVELING AND ASSOCIATED REMEDIAL REPAIR WORK. FLOOR SHALL BE LEVEL WITHIN 1/4" IN 10'-0" RADIUS.
10. PROVIDE MINIMUM 1'-0" CLEAR FLOOR SPACE AT THE PUSH SIDE OF EVERY DOOR WITH A CLOSER. PROVIDE MINIMUM 1'-6" CLEAR AT THE PULL SIDE OF EVERY DOOR, UNLESS SPECIFICALLY DIMENSIONED, NOTED OR SHOWN OTHERWISE.
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    - B. ALIGN: LOCATE PARTITION FLUSH WITH FACE OF GYPSUM BOARD, OR OTHER SURFACE INDICATED.
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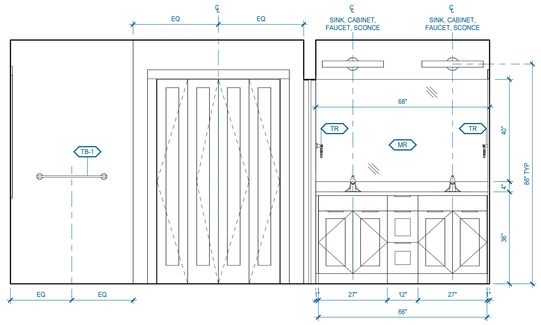
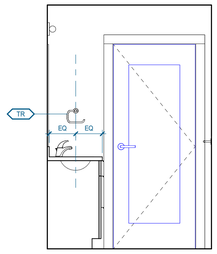
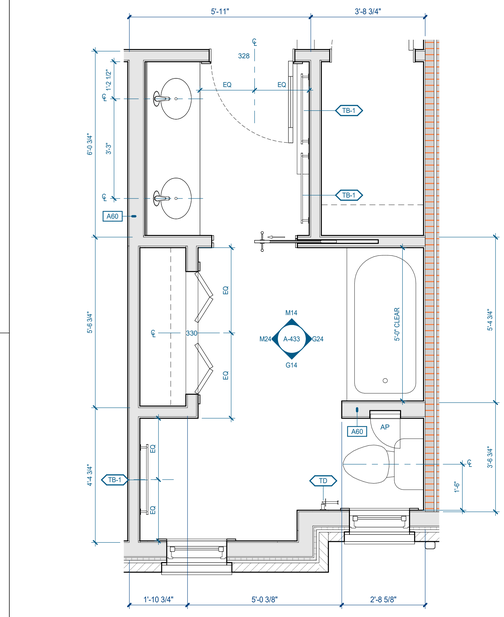


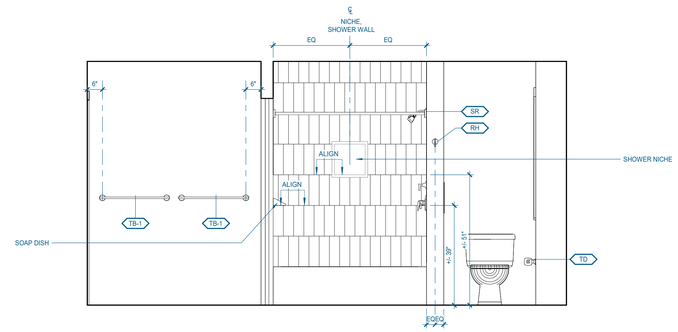
M24 BLDG C - FL 3 TYP BATH - W ELEVATION
1/2" = 1'-0"



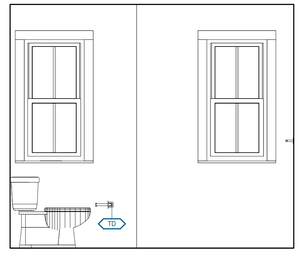
M14 BLDG C - FL 3 TYP BATH - N ELEVATION
1/2" = 1'-0"



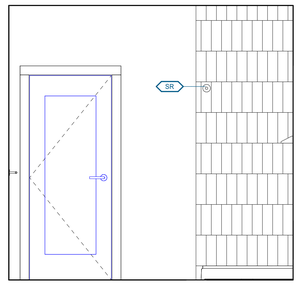
G06 BLDG C - PLAN - FL 3 TYP BATH
1/2" = 1'-0"



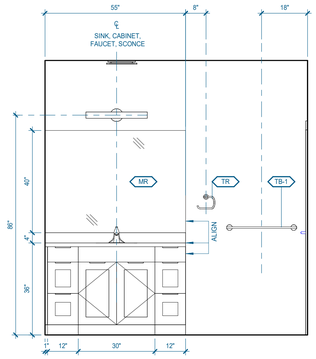
G24 BLDG C - FL 3 TYP BATH - E ELEVATION
1/2" = 1'-0"



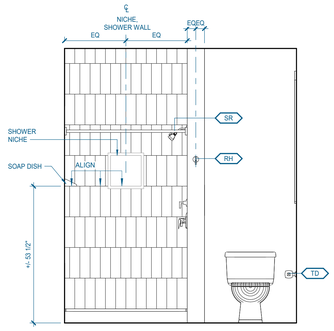
G14 BLDG C - FL 3 TYP BATH - S ELEVATION
1/2" = 1'-0"



A24 BLDG C - FL 2 TYP BATH - N ELEVATION
1/2" = 1'-0"



A19 BLDG C - FL 2 TYP BATH - W ELEVATION
1/2" = 1'-0"



A14 BLDG C - FL 2 TYP BATH - E ELEVATION
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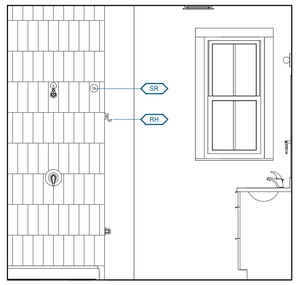
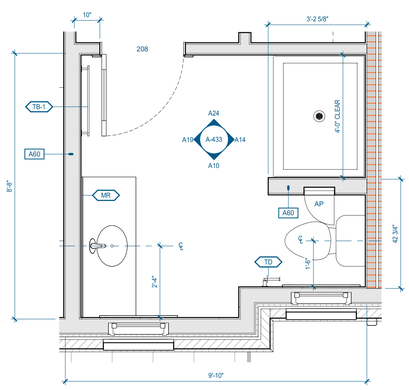


A10 BLDG C - FL 2 TYP BATH - S ELEVATION
1/2" = 1'-0"



A05 BLDG C - PLAN - FL 2 TYP BATH
1/2" = 1'-0"

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McCarty Holsaple McCarty, Inc.
550 W. Main St., Suite 300
Knoxville, TN 37902
t 865.544.2000
www.mhminc.com

Consultants:

CIVIL ENGINEER:

HUDDLESTON-STEELE ENGINEERING INC.
2112 N.W. BROAD ST.
MURFREESBORO, TN 37129
615.893.4084

LANDSCAPE ARCHITECT:

RAGAN SMITH
100 E. VINE ST., STE 200
MURFREESBORO, TN 37130
615.546.6050

STRUCTURAL ENGINEER:

HAINES STRUCTURAL GROUP
800 S. GAY ST., STE 1750
KNOXVILLE TN, 37929
865.329.9920

MECHANICAL & PLUMBING ENGINEER:

FACILITY SYSTEMS CONSULTANTS
713 S. CENTRAL ST., STE 101
KNOXVILLE TN, 37902
865.246.0164

ELECTRICAL ENGINEER:

FACILITY SYSTEMS CONSULTANTS
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KNOXVILLE TN, 37902
865.246.0164

Project Information:

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MHA Parkside Housing
520 EAST CASTLE STREET,
MURFREESBORO, TN 37130

Seal:

Consultant:

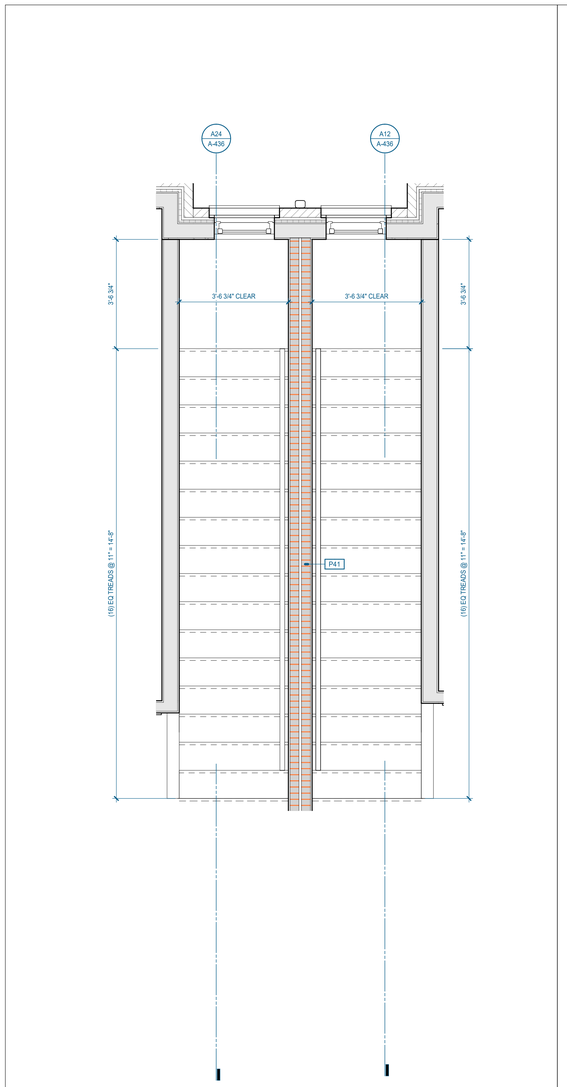
#	ISSUE	DATE

Issue Date:	04/04/2022
PIC	M. BUTLER
PM	M. BUTLER
PA	G. TAYLOR
Drawn By:	Author
Checked By:	J. BRADLEY

Sheet Description:

A-433

ENLARGED PLANS & ELEVATIONS - BUILDING C BATHROOMS CONT.



A18 BUILDING C - LEVEL 03 STAIR
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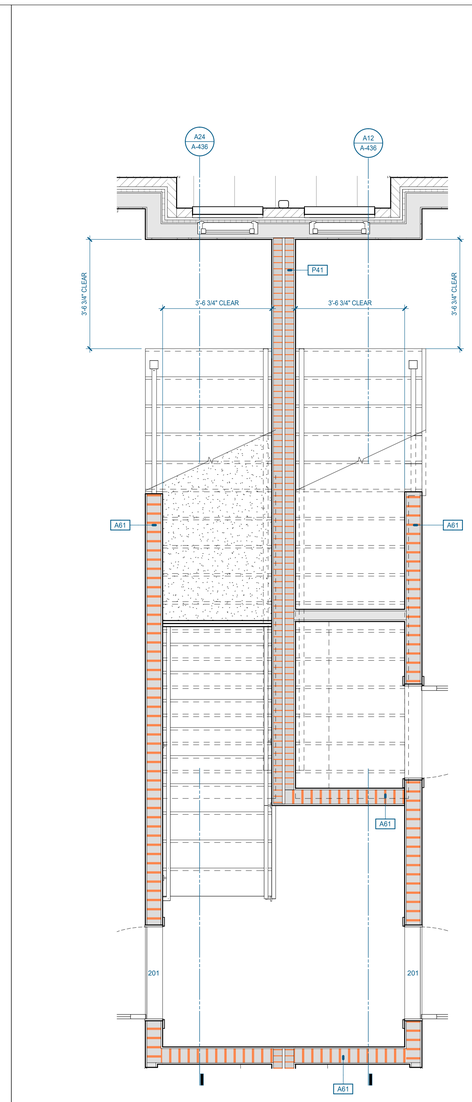
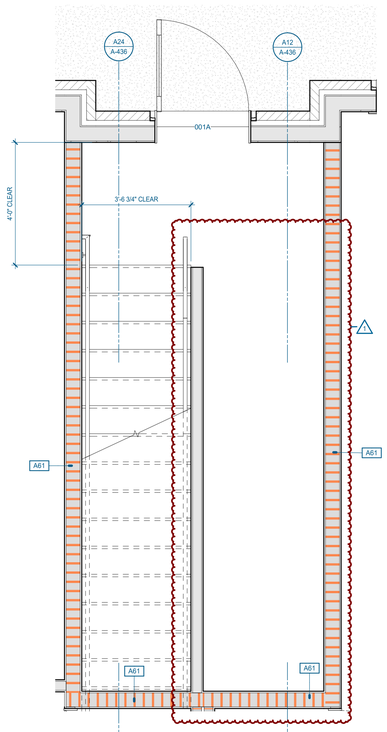


A12 BUILDING C - LEVEL 02 STAIR
1/2" = 1'-0"



A06 BUILDING C - LEVEL 01 STAIR
1/2" = 1'-0"

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RAGAN SMITH
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MURFREESBORO, TN 37130
615.546.6050

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KNOXVILLE TN, 37929
865.329.9920

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KNOXVILLE TN, 37902
865.246.0164

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713 S. CENTRAL ST., STE 101
KNOXVILLE TN, 37902
865.246.0164

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MHA Parkside Housing

520 EAST CASTLE STREET,
MURFREESBORO, TN 37130

MARGARET L. BUTLER
REGISTERED ARCHITECT
ARCHITECTURE
No. 0002171
STATE OF TENNESSEE
08/23/22

Consultant:

#	ISSUE	DATE
1	REVISION 01 - CITY COMMENTS RESPONSE	08.23.2022

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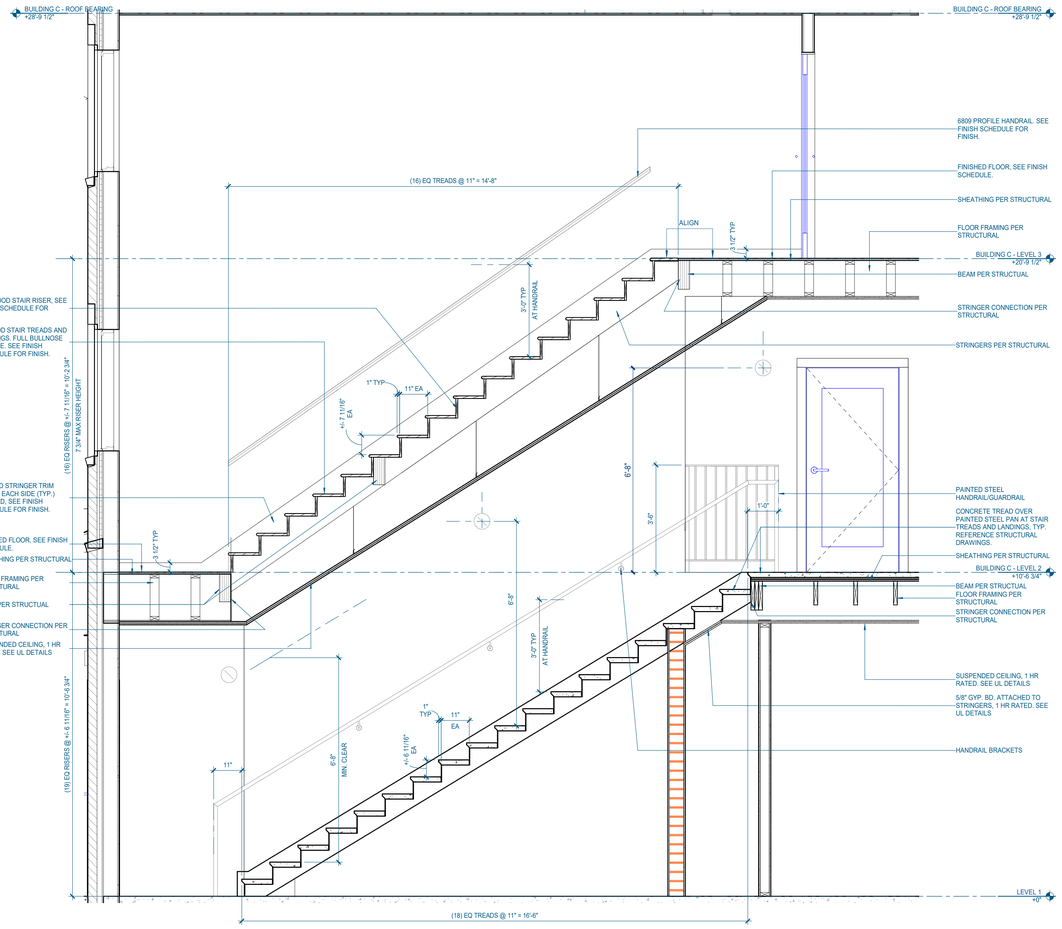
Checked By:	J. BRADLEY

Sheet Description:

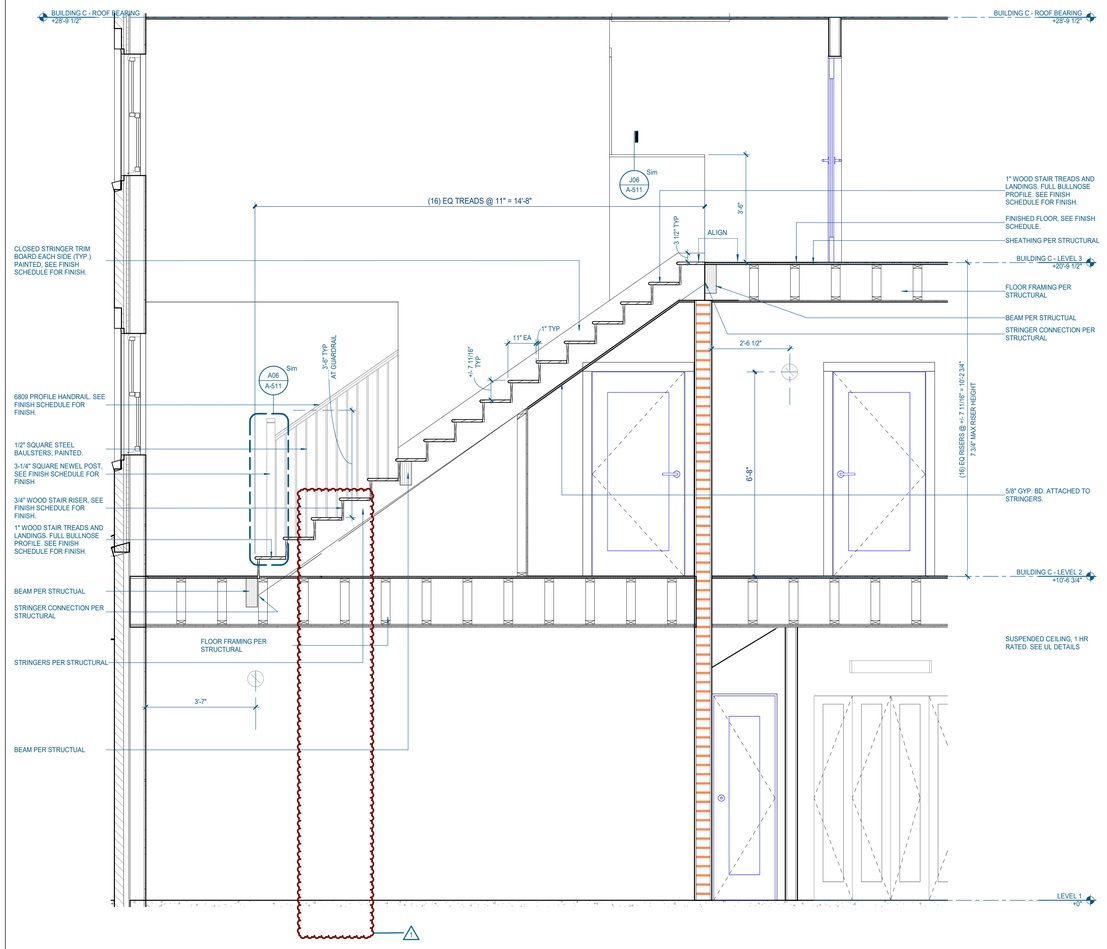
A-435

BUILDING C - STAIR



A24 BUILDING C - STAIR SECTION 02

1/2" = 1'-0"



A12 BUILDING C - STAIR SECTION 01

1/2" = 1'-0"

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Knoxville, TN 37902
t 865.544.2000
www.mhminc.com

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KNOXVILLE TN, 37929
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KNOXVILLE TN, 37902
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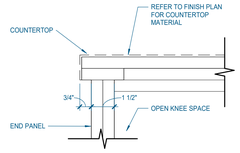
Checked By:	J. BRADLEY

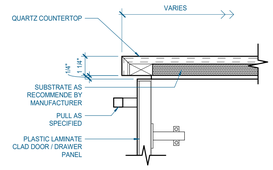
Sheet Description:

A-436

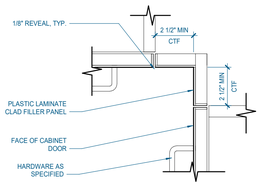
BUILDING C - STAIR SECTIONS



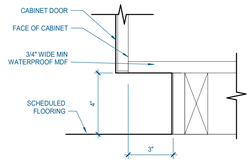
08 FINISHED END PANEL
3" = 1'-0"



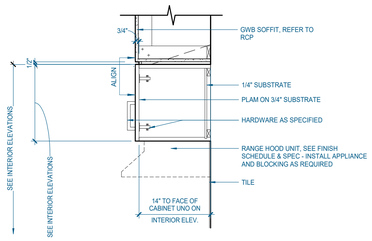
07 QUARTZ COUNTERTOP
3" = 1'-0"



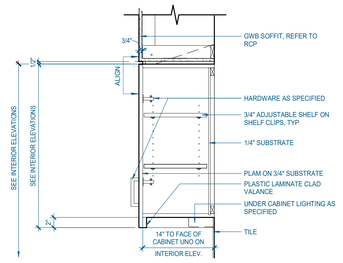
03 INSIDE CORNER PLAN DETAIL
3" = 1'-0"



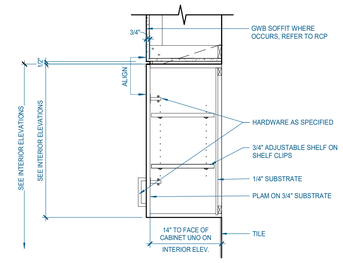
02 TYP. TOE KICK DETAIL
3" = 1'-0"



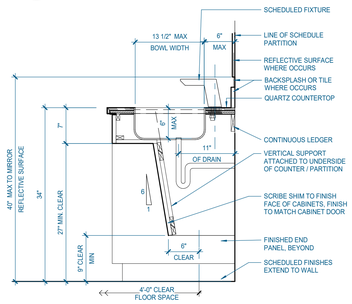
U3 UPPER WALL CABINET AT HOOD
1" = 1'-0"



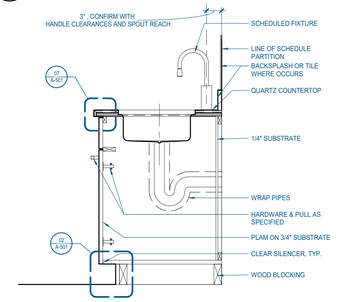
U2 UPPER WALL CABINET
1" = 1'-0"



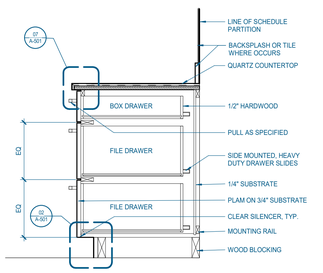
U1 UPPER WALL CABINET
1" = 1'-0"



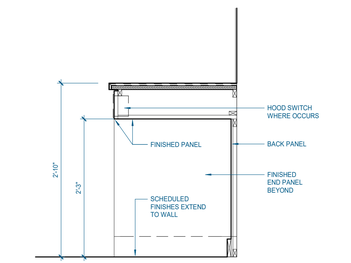
S2 ACCESSIBLE SINK APRON
1" = 1'-0"



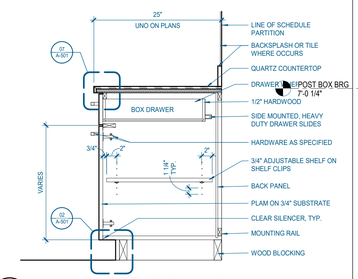
S1 SINK CABINET - TYPE "S" TYP.
1" = 1'-0"



D1 DRAWER CABINETS - TYPE "D" TYP.
1" = 1'-0"



B2 UFAS WORK SPACE
1" = 1'-0"



B1 BASE CABINET - TYPE "B" TYP.
1" = 1'-0"

ARCHITECTURAL WOODWORK GENERAL NOTES

GENERAL:

1. ALL SECTION DETAILS ON THIS SHEET MAY NOT APPLY TO THIS PROJECT:
2. ARCHITECTURAL WOODWORK TYPES: REFER TO TYPE LEGEND.
3. VERIFY AND COORDINATE CLEAR DIMENSIONS REQUIRED FOR OWNER-FURNISHED EQUIPMENT LOCATED WITHIN OR ADJACENT TO ANY CABINETS.
4. COORDINATE INSTALLATION OF SINKS WITH ASSOCIATED PIPING AND FITTINGS PLUS WITH INSTALLATION OF ACCESSIBLE COVER PANELS.
5. REQUIRED SCRIBES AND FILLER PIECES SHALL BE INSTALLED TO ALLOW PROPER OPERATION OF DRAWERS AND DOORS. THEY SHALL BE EVENLY DISTRIBUTED AND OF EQUAL WIDTH ALONG A SINGLE RUN OF CABINETS. THEY SHALL BE 3" WIDE, MAXIMUM, EXCEPT INSIDE CORNER FILLERS SHALL BE 2 1/2" WIDE, MINIMUM. REF **"TYP INSIDE CORNER PLAN DETAIL."**
6. WHERE BASE CABINETS INTERSECT AT INSIDE CORNER CONDITIONS PROVIDE WALL MOUNTED LEDGERS TO SUPPORT COUNTERTOP AT CORNERS. WHERE UPPER CABINETS INTERSECT AT INSIDE CORNER CONDITIONS PROVIDE HORIZONTAL FILLER PANEL FLUSH WITH BOTTOM OF CABINETS.
7. PROVIDE PLASTIC SCREW COVERS TO CONCEAL SCREW HEADS AT ALL SEMI-EXPOSED CABINET SURFACES. ALL EXPOSED SCREWS SHALL BE COUNTERSUNK.
8. CORE MATERIAL FOR SHELVING GREATER THAN 30" WIDE SHALL BE 1" THICK.
9. REFERENCE MOUNTING HEIGHTS SHEET FOR GENERAL OUTLET AND WIREMOLD MOUNTING HEIGHT INFORMATION.
10. ALL VERTICAL JOINTS BETWEEN CABINETS SHALL BE FLUSH OVERLAY BUTT JOINTS. THEY SHALL LOOK "SEAMLESS" AND COVERED IN PLASTIC LAMINATE.
11. FIELD VERIFY DIMENSIONS BEFORE CABINET FABRICATION. NOTIFY ARCHITECT OF CONFLICTS AND DISCREPANCIES PRIOR TO FABRICATION.
12. PROVIDE FILLER PANELS AS NEEDED BETWEEN BUILT-IN APPLIANCES AND ADJACENT CABINETS OR WALLS. ALL FILLER PANELS TO MATCH CABINET DOOR FINISH.
13. REFER TO SPECIFICATIONS FOR CABINET PULL TYPES, SIZES AND FINISHES.

COUNTERTOP:

14. ALL COUNTERTOPS 25" DEEP U.N.O. ON INTERIOR ELEVATIONS.
15. ALL OUTSIDE EXPOSED COUNTERTOP CORNERS TO HAVE A 1" RADIUS U.N.O.
16. PROVIDE WALL MOUNTED BRACKETS FOR SUPPORT OF COUNTERTOPS AT KNEE SPACES. COUNTERTOPS SHALL BE SUPPORTED 30" MINIMUM - 36" MAXIMUM O.C.
17. PROVIDE ALL BACK AND SIDE SPLASHES THAT ARE 4" TALL X 3/4" THICK IF PLASTIC LAMINATE, 1/2" THICK IF SOLID SURFACE MATERIAL, U.N.O. ON THE INTERIOR ELEVATIONS. ALL SPLASHES SHALL BE SCRIBED TO CONFORM TO THE SURFACE OF ABUTTING WALLS. ALL SPLASHES SHALL BE SEALED TO THE WALL WITH CLEAR SILICONE SEALANT. PROVIDE SPLASHES ON ALL REAR AND SIDE WALLS AT BASE CABINETS, U.N.O.

BASE CABINETS:

18. PROVIDE SCHEDULED BASE ALONG BOTTOM OF EXPOSED FRONTS, BACKS, SIDES, AND ENDS OF ALL FIXED CABINETS, PEDESTALS, VERTICAL SUPPORT PANELS, KNEE SPACES, ETC, UNO ON THE INTERIOR ELEVATIONS.
19. ALL HORIZONTAL AND VERTICAL JOINTS SHALL BE 1/8" MAX, U.N.O.
20. ALL TOE KICK SPACES SHALL BE 4" TALL X 3 1/2" DEEP, UNO. PROVIDE BLOCKING BASE WITH HORIZONTAL BRACING AT 24" O.C., U.N.O.
21. PROVIDE 1 1/2" THICK END PANEL AT KNEE SPACES, UNDER COUNTER APPLIANCE OPENINGS AND ACCESSIBLE LAVS/SINKS THAT DO NOT ABUT A WALL OR OTHER CABINETS.
22. BACKS OF BASE CABINETS SHALL BE 1/4" THICK U.N.O.
23. WHERE PLAM IS SPECIFIED, PROVIDE PLAM ON 3/4" ON ALL SIDES AND EDGES OF EXPOSED SURFACES, U.N.O.
24. SCRIBE ALL SCHEDULED FLOORING TO BASE AT TOE KICKS.
25. CABINET PULLS: REFER TO SPECIFICATIONS

WALL CABINETS:

26. TOP OF UPPER AND FULL HEIGHT CABINETS REFER TO INTERIOR ELEVATIONS FOR HEIGHT AFF.
27. REFERENCE REFLECTED CEILING PLANS FOR FURR DOWN LOCATIONS. WALL CABINETS WITHOUT A FURR DOWN ABOVE SHALL RECEIVE A CONTINUOUS 6" HIGH SLOPED PANEL, FINISHED TO MATCH CABINETS. REF W2/A811.
28. WALL MOUNTED UPPER CABINETS SHALL INCLUDE ADJUSTABLE SHELF (SHELVES), U.N.O.

CABINET HEIGHT	NUMBER OF SHELVES
THROUGH 24"	1
25" THROUGH 42"	2
43" THROUGH 48"	3

29. TOPS AND BOTTOMS OF WALL HUNG CABINETS SHALL BE 3/4" THICK WITH PLASTIC LAMINATE ON EXPOSED SURFACES.
30. BACKS OF WALL HUNG CABINETS SHALL BE 1/4" THICK UNO.

REFER TO ELECTRICAL DRAWINGS FOR UNDERCABINET LIGHT LOCATIONS

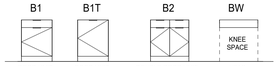
ARCHITECTURAL WOODWORK TYPE LEGEND

CABINET TYPE

NOTE: VERIFY ALL DIMS. ON PLANS AND INTERIOR ELEVATIONS

CABINET TYPE: B1, B2. B3

25" DEEP COUNTERTOP (U.N.O.)

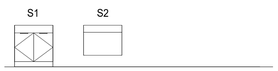


CABINET TYPE: D1

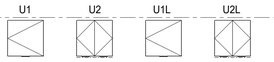
25" DEEP COUNTERTOP (U.N.O.)

CABINET TYPE: S1, S2

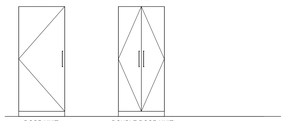
25" DEEP COUNTERTOP (U.N.O.)



CABINET TYPE: U1, U2



CABINET TYPE: W1, W2



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550 W. Main St., Suite 300
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PA	G. TAYLOR
Drawn By:	Author
Checked By:	J. BRADLEY

Sheet Description:

A-501

TYPICAL MILLWORK DETAILS

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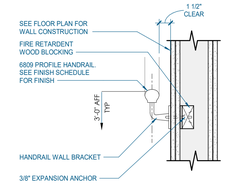
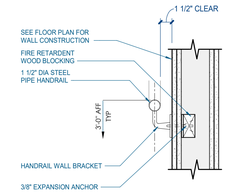
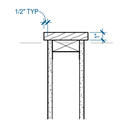


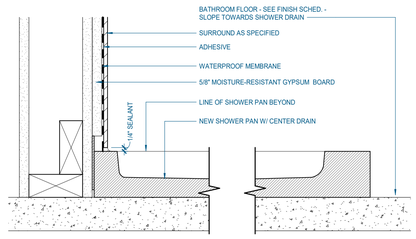
R06 TYPICAL HANDRAIL - PRIVATE STAIR
1 1/2" = 1'-0"



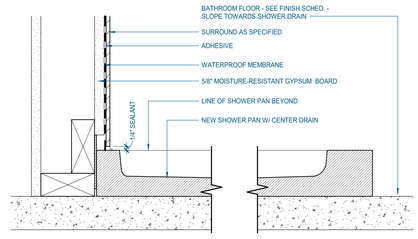
M06 TYPICAL HANDRAIL - SHARED STAIR
1 1/2" = 1'-0"



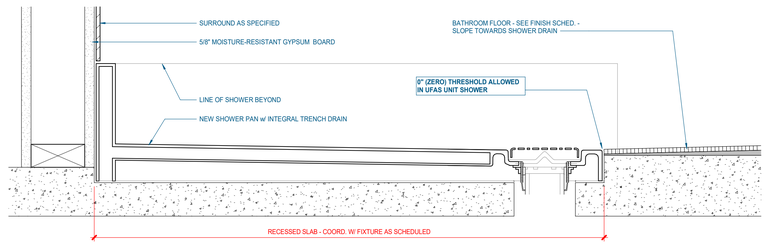
J06 GUARD WALL CAP DETAIL
1 1/2" = 1'-0"



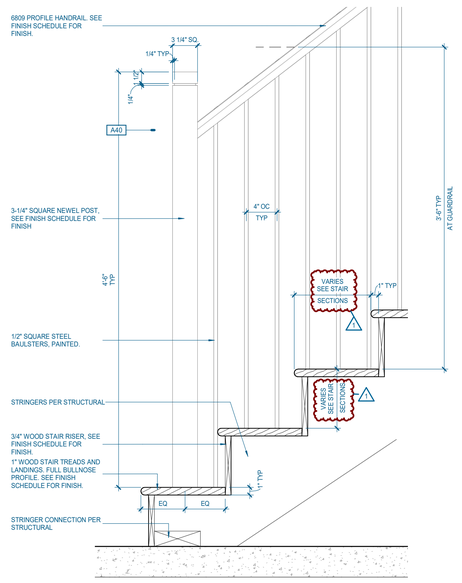
E16 STANDARD SHOWER DETAIL AT RATED PARTITION
3" = 1'-0"



E11 STANDARD SHOWER DETAIL AT UNRATED PARTITION
3" = 1'-0"



A16 UFAS SHOWER DETAIL
3" = 1'-0"



A06 TYPCAL GUARDRAIL - PRIVATE STAIR
1 1/2" = 1'-0"

11/15/2023 2:56:28 PM

MHM

McCarty Holsaple McCarty, Inc.
550 W. Main St., Suite 300
Knoxville, TN 37902
t 865.544.2000
www.mhminc.com

Consultants:

CIVIL ENGINEER:

HUDDLESTON-STEELE ENGINEERING INC.
2112 N.W. BROAD ST.
MURFREESBORO, TN 37129
615.893.4084

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RAGAN SMITH
100 E. VINE ST., STE 200
MURFREESBORO, TN 37130
615.546.6050

STRUCTURAL ENGINEER:

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800 S. GAY ST., STE 1750
KNOXVILLE TN, 37929
865.329.9920

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FACILITY SYSTEMS CONSULTANTS
713 S. CENTRAL ST., STE 101
KNOXVILLE TN, 37902
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ELECTRICAL ENGINEER:

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713 S. CENTRAL ST., STE 101
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865.246.0164

Project Information:

21026

MHA Parkside Housing

520 EAST CASTLE STREET,
MURFREESBORO, TN 37130

MARGARET L. BUTLER
REGISTERED ARCHITECT
ARCHITECTURE
PERMIT NO. 00021701
STATE OF TENNESSEE
08/23/22

Consultant:

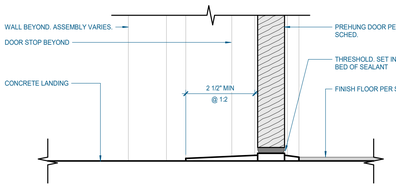
#	ISSUE	DATE
1	REVISION 01 - CITY COMMENTS RESPONSE	08.23.2022

Issue Date:	04/04/2022
PIC	M. BUTLER
PM	M. BUTLER
PA	G. TAYLOR
Drawn By:	Author
Checked By:	J. BRADLEY

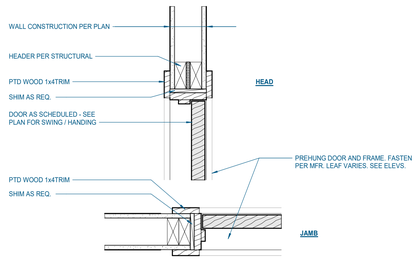
Sheet Description:

A-511

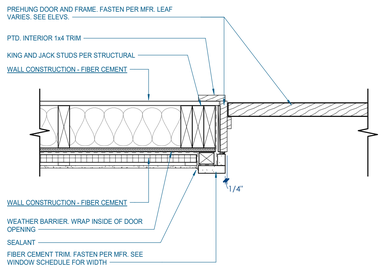
INTERIOR DETAILS



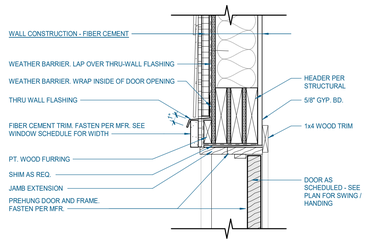
R24 TYP. INTERIOR THRESHOLD
3" = 1'-0"



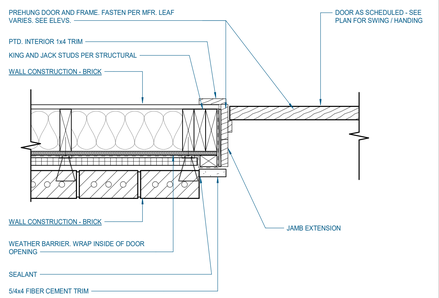
R19 TYP. INTERIOR DOOR - HEAD / JAMB DETAILS
1 1/2" = 1'-0"



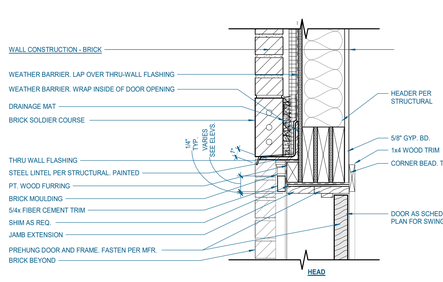
L24 EXTERIOR DOOR - FIBER CEMENT JAMB DETAIL
1 1/2" = 1'-0"



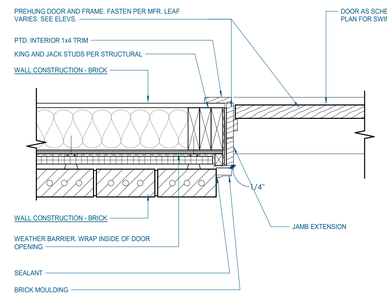
L19 EXTERIOR DOOR - FIBER CEMENT HEAD DETAIL
1 1/2" = 1'-0"



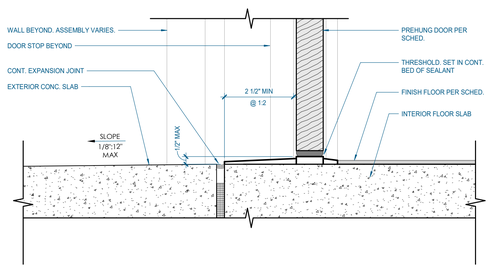
F24 BRICK JAMB BELOW FIBER CEMENT DETAIL (BLDG. A)
1 1/2" = 1'-0"



F19 EXTERIOR DOOR - BRICK HEAD DETAIL
1 1/2" = 1'-0"



A24 EXTERIOR DOOR - BRICK JAMB DETAIL
1 1/2" = 1'-0"



A19 TYP. EXTERIOR THRESHOLD
3" = 1'-0"

BUILDING C - DOOR SCHEDULE

DOOR NO	FIRE RATING	LEAF SIZE W	SIZE HT	SIZE THK	TYPE	LEAF QTY	MATL	FRAME MATL	HARDWARE SET NO.	COMMENTS
First Floor										
001A		3' - 0"	7' - 0"	1 3/4"	4L2P	1	STL	WD-Wood		
002A		3' - 0"	7' - 0"	1 3/4"	4L2P	1	STL	WD-Wood		
003	45 MIN	3' - 0"	6' - 8"	1 3/4"	1P	1	STL	WD-Wood		
101		3' - 0"	7' - 0"	1 3/4"	4L2P	1	STL	WD-Wood		
103		3' - 0"	6' - 8"	0"	FO	0	-	WD-Wood		FRAMED OPENING
104		2' - 0"	6' - 8"	1 3/4"	1P	1	SC:WD	WD-Wood		
105		1' - 3"	6' - 8"	1 1/2"	1P	4	SC:WD	WD-Wood		1" UNDERCUT
106		2' - 4"	6' - 8"	1 3/4"	1LP	1	SC:WD	WD-Wood		LOUVERED
107A		3' - 0"	6' - 8"	1 3/4"	1P	1	SC:WD	WD-Wood		1" UNDERCUT
107B		3' - 0"	7' - 0"	1 3/4"	4L2P	1	STL	WD-Wood		
108		3' - 0"	6' - 8"	1 3/4"	1P	1	SC:WD	WD-Wood		1" UNDERCUT
109A		1' - 6"	6' - 8"	1 1/2"	1P	4	SC:WD	WD-Wood		
109B		1' - 3"	6' - 8"	1 1/2"	1P	4	SC:WD	WD-Wood		
AP		1' - 0"	1' - 0"							ACCESS PANEL
Second Floor										
201	60 MIN	3' - 0"	6' - 8"	1 3/4"	1P	1	STL	WD-Wood		
207		3' - 0"	6' - 8"	1 3/4"	1P	1	SC:WD	WD-Wood		1" UNDERCUT
208		2' - 8"	6' - 8"	1 3/4"	1P	1	SC:WD	WD-Wood		1" UNDERCUT
209		1' - 3"	6' - 8"	1 1/2"	1P	4	SC:WD	WD-Wood		
210		1' - 0"	6' - 8"	1 1/2"	1P	2	SC:WD	WD-Wood		
211		3' - 0"	6' - 8"	1 3/4"	1P	1	SC:WD	WD-Wood		
AP		1' - 0"	1' - 0"							ACCESS PANEL
Third Floor										
322		3' - 0"	6' - 8"	1 3/4"	1P	1	SC:WD	WD-Wood		1" UNDERCUT
323A		1' - 3"	6' - 8"	1 1/2"	1P	4	SC:WD	WD-Wood		
323B		1' - 3"	6' - 8"	1 1/2"	1P	4	SC:WD	WD-Wood		
324		2' - 4"	6' - 8"	1 3/4"	1P	1	SC:WD	WD-Wood		
325		2' - 4"	6' - 8"	1 3/4"	1LP	1	SC:WD	WD-Wood		LOUVERED
326A		1' - 3"	6' - 8"	1 1/2"	1P	4	SC:WD	WD-Wood		1" UNDERCUT
326B		3' - 0"	6' - 8"	1 3/4"	1P	1	SC:WD	WD-Wood		1" UNDERCUT
327		2' - 8"	6' - 8"	1 3/4"	1P	1	SC:WD	WD-Wood		
328		2' - 8"	6' - 8"	1 3/4"	1P	1	SC:WD	WD-Wood		1" UNDERCUT
329		2' - 9 1/2"	6' - 8"	1 3/4"	1P	1	SC:WD	WD-Wood		1" UNDERCUT
330		1' - 0"	6' - 8"	1 1/2"	1P	4	SC:WD	WD-Wood		
331		3' - 0"	6' - 8"	1 3/4"	1P	1	SC:WD	WD-Wood		1" UNDERCUT
332A		1' - 6"	6' - 8"	1 1/2"	1P	4	SC:WD	WD-Wood		
332B		2' - 8"	6' - 8"	1 3/4"	1P	1	SC:WD	WD-Wood		
333		1' - 3"	6' - 8"	1 1/2"	1P	4	SC:WD	WD-Wood		
AA			2' - 0"							ATTIC ACCESS
AP		1' - 0"	1' - 0"							ACCESS PANEL

BUILDING B - DOOR SCHEDULE

DOOR NO	FIRE RATING	LEAF SIZE W	SIZE HT	SIZE THK	TYPE	LEAF QTY	MATL	FRAME MATL	HARDWARE SET NO.	COMMENTS
B - Roof Truss Bearing										
AA			2' - 0"							ATTIC ACCESS
First Floor										
001		3' - 0"	7' - 0"	1 3/4"	4L2P	1	STL	WD-Wood		
002		3' - 0"	7' - 0"	1 3/4"	4L2P	1	STL	WD-Wood		
003	45 MIN	3' - 0"	6' - 8"	1 3/4"	1P	1	STL	WD-Wood		
100		3' - 0"	7' - 0"	1 3/4"	4L2P	1	STL	WD-Wood		
101		3' - 0"	7' - 0"	1 3/4"	4L2P	1	<varies>	WD-Wood		
102		3' - 6"	6' - 8"	0"	FO	0	-	WD-Wood		FRAMED OPENING
104		3' - 0"	6' - 8"	1 3/4"	1P	1	SC:WD	WD-Wood		1" UNDERCUT
105		<varies>	6' - 8"	1 1/2"	1P	2	SC:WD	WD-Wood		
106		3' - 0"	6' - 8"	1 3/4"	1P	1	SC:WD	WD-Wood		1" UNDERCUT
107		1' - 3"	6' - 8"	1 1/2"	1P	4	SC:WD	WD-Wood		
108		2' - 4"	6' - 8"	1 3/4"	1P	1	SC:WD	WD-Wood		
109A		3' - 1 1/2"	6' - 8"	1 3/4"	1P	1	SC:WD	WD-Wood		1" UNDERCUT
109B		2' - 9"	7' - 0"	1 3/4"	1P	2	SC:WD	WD-Wood		1" UNDERCUT
109C		1' - 3"	6' - 8"	1 1/2"	1P	4	SC:WD	WD-Wood		1" UNDERCUT
110		2' - 4"	6' - 8"	1 3/4"	1LP	1	SC:WD	WD-Wood		LOUVERED
113		3' - 0"	6' - 8"	1 3/4"	1P	1	SC:WD	WD-Wood		1" UNDERCUT
114A		1' - 3"	6' - 8"	1 1/2"	1P	4	SC:WD	WD-Wood		
114B		3' - 0"	6' - 8"	1 3/4"	1P	1	SC:WD	WD-Wood		
115A		0' - 9"	6' - 8"	1 1/2"	1P	4	SC:WD	WD-Wood		
115B		1' - 0"	6' - 8"	1 1/2"	1P	2	SC:WD	WD-Wood		
116		2' - 0"	6' - 8"	1 3/4"	1P	1	SC:WD	WD-Wood		
AP		1' - 0"	1' - 0"							ACCESS PANEL
Second Floor										
200	60 MIN	3' - 0"	6' - 8"	1 3/4"	1P	1	STL	WD-Wood		
204		2' - 8"	6' - 8"	1 3/4"	1P	1	SC:WD	WD-Wood		1" UNDERCUT
205		1' - 0"	6' - 8"	1 1/2"	1P	2	SC:WD	WD-Wood		
206		3' - 0"	6' - 8"	1 3/4"	1P	1	SC:WD	WD-Wood		1" UNDERCUT
207		1' - 3"	6' - 8"	1 1/2"	1P	4	SC:WD	WD-Wood		
208		2' - 4"	6' - 8"	1 3/4"	1P	1	SC:WD	WD-Wood		
209		3' - 1 1/2"	6' - 8"	1 3/4"	1P	1	SC:WD	WD-Wood		1" UNDERCUT
210		2' - 4"	6' - 8"	1 3/4"	1LP	1	SC:WD	WD-Wood		LOUVERED
213		3' - 0"	6' - 8"	1 3/4"	1P	1	SC:WD	WD-Wood		1" UNDERCUT
214		1' - 3"	6' - 8"	1 1/2"	1P	4	SC:WD	WD-Wood		
215		0' - 9"	6' - 8"	1 1/2"	1P	4	SC:WD	WD-Wood		
217		2' - 8"	6' - 8"	1 3/4"	1P	1	SC:WD	WD-Wood		1" UNDERCUT
218		1' - 0"	6' - 8"	1 1/2"	1P	4	SC:WD	WD-Wood		
219		3' - 0"	6' - 8"	1 3/4"	1P	1	SC:WD	WD-Wood		1" UNDERCUT
220		2' - 8"	6' - 8"	1 3/4"	1P	1	SC:WD	WD-Wood		
221		2' - 8"	6' - 8"	1 3/4"	1P	1	SC:WD	WD-Wood		1" UNDERCUT
222		1' - 0"	6' - 8"	1 1/2"	1P	4	SC:WD	WD-Wood		
223		3' - 0"	6' - 8"	1 3/4"	1P	1	SC:WD	WD-Wood		1" UNDERCUT
224		2' - 8"	6' - 8"	1 3/4"	1P	1	SC:WD	WD-Wood		
225		3' - 0"	6' - 8"	1 3/4"	1P	1	SC:WD	WD-Wood		1" UNDERCUT
226		2' - 8"	6' - 8"	1 3/4"	1P	1	SC:WD	WD-Wood		
AP		1' - 0"	1' - 0"							ACCESS PANEL
Third Floor										
300	60 MIN	3' - 0"	6' - 8"	1 3/4"	1P	1	STL	WD-Wood		
304		2' - 8"	6' - 8"	1 3/4"	1P	1	SC:WD	WD-Wood		1" UNDERCUT
305		1' - 0"	6' - 8"	1 1/2"	1P	2	SC:WD	WD-Wood		
306		3' - 0"	6' - 8"	1 3/4"	1P	1	SC:WD	WD-Wood		1" UNDERCUT
307		1' - 3"	6' - 8"	1 1/2"	1P	4	SC:WD	WD-Wood		
308		2' - 4"	6' - 8"	1 3/4"	1P	1	SC:WD	WD-Wood		
309		3' - 1 1/2"	6' - 8"	1 3/4"	1P	1	SC:WD	WD-Wood		1" UNDERCUT
310		2' - 4"	6' - 8"	1 3/4"	1LP	1	SC:WD	WD-Wood		LOUVERED
313		3' - 0"	6' - 8"	1 3/4"	1P	1	SC:WD	WD-Wood		1" UNDERCUT
314		1' - 3"	6' - 8"	1 1/2"	1P	4	SC:WD	WD-Wood		
315		0' - 9"	6' - 8"	1 1/2"	1P	4	SC:WD	WD-Wood		
AA			2' - 0"							ATTIC ACCESS
AP		1' - 0"	1' - 0"							ACCESS PANEL

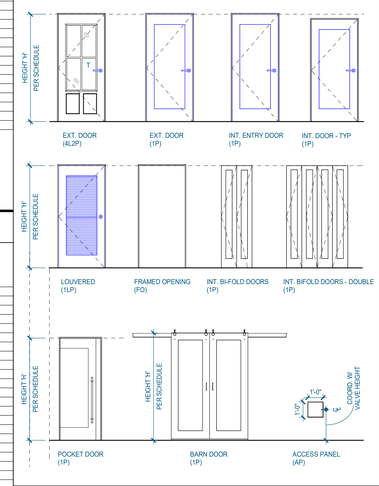
BUILDING A - DOOR SCHEDULE

DOOR NO	FIRE RATING	LEAF SIZE W	SIZE HT	SIZE THK	TYPE	LEAF QTY	MATL	FRAME MATL	HARDWARE SET NO.	COMMENTS
AA			2' - 0"							ATTIC ACCESS
First Floor										
001	45 MIN	3' - 0"	7' - 0"	1 3/4"	1P	1	STL	WD-wood		
101		3' - 0"	7' - 0"	1 3/4"	4L2P	1	STL	WD-wood		
103		3' - 4"	<varies>	0"	FO	0	-	WD-wood		FRAMED OPENING
104		2' - 4"	6' - 8"	1 3/4"	1P	1	<varies>	<varies>		
105		1' - 6"	6' - 8"	1 1/2"	1P	4	SC:WD	WD-wood		1" UNDERCUT
105A		1' - 3"	6' - 8"	1 1/2"	1P	4	SC:WD	WD-wood		1" UNDERCUT
106		3' - 0"	6' - 8"	1 3/4"	1P	1	SC:WD	WD-wood		1" UNDERCUT
106A		3' - 0"	7' - 0"	1 3/4"	4L2P	1	STL	WD-wood		
107		1' - 3"	6' - 8"	1 1/2"	1P	4	SC:WD	WD-wood		
107A		1' - 0"	6' - 8"	1 1/2"	1P	4	SC:WD	WD-wood		
108		3' - 0"	6' - 8"	1 3/4"	1P	1	SC:WD	WD-wood		1" UNDERCUT
AP		1' - 0"	1' - 0"							ACCESS PANEL
Second Floor										
202		3' - 0"	6' - 8"	1 3/4"	1P	1	SC:WD	WD-wood		1" UNDERCUT
203		1' - 3"	6' - 8"	1 1/2"	1P	4	SC:WD	WD-wood		
204		3' - 0"	6' - 8"	1 3/4"	1P	1	SC:WD	WD-wood		1" UNDERCUT
205		2' - 8"	6' - 8"	1 3/4"	1P	1	SC:WD	WD-wood		
206		2' - 8"	6' - 8"	1 3/4"	1LP	1	SC:WD	WD-wood		LOUVERED
207		2' - 8"	6' - 8"	1 3/4"	1P	1	SC:WD	WD-wood		1" UNDERCUT
208		1' - 3"	6' - 8"	1 1/2"	1P	2	SC:WD	WD-wood		
AA			2' - 0"							ATTIC ACCESS
AP		1' - 0"	1' - 0"							ACCESS PANEL

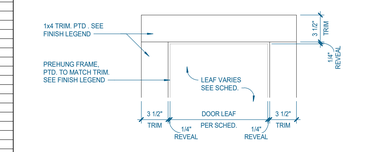
GENERAL NOTES

1. ALL DOORS IN SMOKE RESISTANT PARTITIONS TO HAVE POSITIVE LATCHING.
2. FIRE-RATING GLAZING IN DOORS SHALL MEET THE FIRE RATING REQUIREMENT OF THE DOORS TO WHICH THEY ARE INSTALLED.
3. ALL DOORS TO HAVE BOXED HEADERS UNLESS STEEL CHANNELS ARE INDICATED IN THE REMARKS COLUMN OF THE DOOR SCHEDULE OR UNLESS OTHERWISE INDICATED BY HEAD DETAIL.
4. ALL DOORS TO BE 1 3/4" THICK U.N.O.
5. ALL NON-RATED DOORS TO BE GLAZED WITH 1/4" SAFETY GLASS COMPLYING WITH ANSI Z-97.1 U.N.O.

DOORS LEAF TYPE LEGEND



INTERIOR DOOR TRIM - ENLARGED ELEVATION



DOOR SCHEDULE REMARKS

1. PROVIDE WITH MAGNETIC HOLD OPEN
2. VIEW WINDOWS IN LARGER LEAF ONLY
3. REFER TO **WINDOW ELEVATIONS** FOR ELEVATION OF INTERIOR DOOR WITH A SIDELIGHT
4. AUTOMATIC CARD SWIPE DOOR
5. INTEGRAL BLINDS (CONTROLS ON INTERIOR ROOM SIDE ONLY)
6. DOOR SWINGS 180°
7. DOOR SWINGS BOTH WAYS
8. INTEGRATED FIRE DOOR ASSEMBLY
9. ALUMINUM FRAMED STOREFRONT, REFER TO WINDOW ELEVATION SHEET.
10. GLAZED ALUMINUM CURTAIN WALL SYSTEM DOORS, REFER TO WINDOW ELEVATIONS.
11. PROVIDE STEEL CHANNEL FRAME AT HEAD AND JAMB OF DOOR PER DOOR DETAILS
12. SECTIONAL OVERHEAD DOOR
13. SOUND CONTROL DOOR ASSEMBLY
14. NEW DOOR ONLY, RE-USE EXISTING FRAME.

ABBREVIATIONS

FINISH ABBREVIATIONS		FRAME FUNCTION ABBREVIATIONS	
AL1	ANODIZED ALUMINUM	RB	RABBETED
AL2	BRONZED ALUMINUM	DE	DOUBLE EGRESS
HC:WD	HOLLOW CORE WOOD VENEER	CA	CASED
SC:WD	SOLID CORE WOOD VENEER	DA	DOUBLE ACTING
HM	HOLLOW METAL	OP	OFFSET PIVOT
PLAM	PLASTIC LAMINATE FACED DOOR		
PT-x	PAINTED FINISH		
ST-x	STAINED FINISH		
SR	SMOKE RESISTANT		
SS	STAINLESS STEEL FINISH		

MHM

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550 W. Main St., Suite 300
Knoxville, TN 37902
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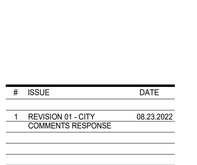


Consultant:

#	ISSUE	DATE
1	REVISION 01 - CITY COMMENTS RESPONSE	08.23.2022

Issue Date:	04/04/2022
PIC	M. BUTLER
PM	M. BUTLER
PA	G. TAYLOR
Drawn By:	Author
Checked By:	J. BRADLEY

Sheet Description:

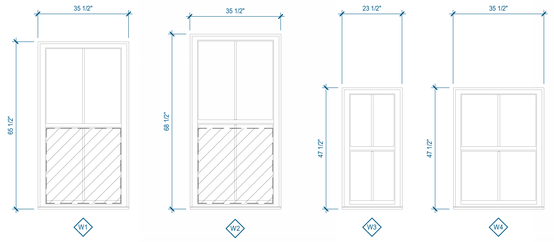
A-601

DOOR SCHEDULES, LEGEND, & DETAILS

11/15/2023 2:56:44 PM

GENERAL NOTES

1. ALL GLAZING 24" OR LESS FROM DOOR TO BE TEMEPERED PER IBC 2018 2406.4.2.
2. ALL SECOND FLOOR WINDOWS IN BEDROOMS MUST MEET IBC 2018 1030.2 REQUIREMENTS.
3. ALL GLAZING IN TRANSOMS TO BE TEMPERED.
4. SEE FLOOR PLAN FOR WINDOW HEAD HEIGHTS. HEAD HEIGHT (HH) ON FLOOR PLAN INDICATES TOP OF WINDOW, NOT ROUGH OPENING (RO). CONTRACTOR TO COORDINATE RO BASED ON MFR. REQUIREMENTS.



EGRESS REQUIREMENTS
- 24" CLR. VERT. OPENING
- 20" CLR. HORIZ. OPENING
- 5.7 SQFT OPENING

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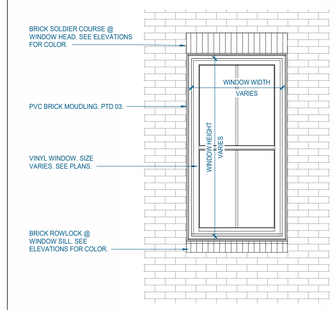
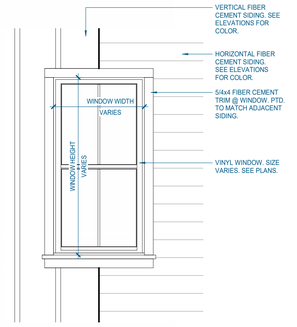
L14 WINDOW LEGEND
1/2" = 1'-0"

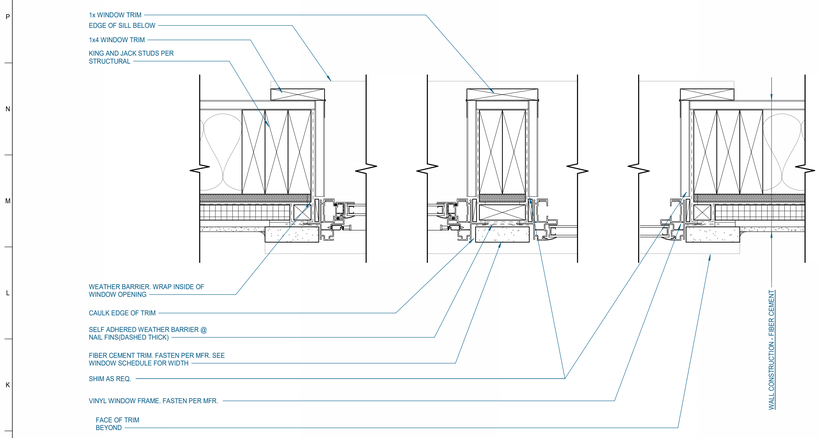
BRICK FACADE WINDOW ELEVATION



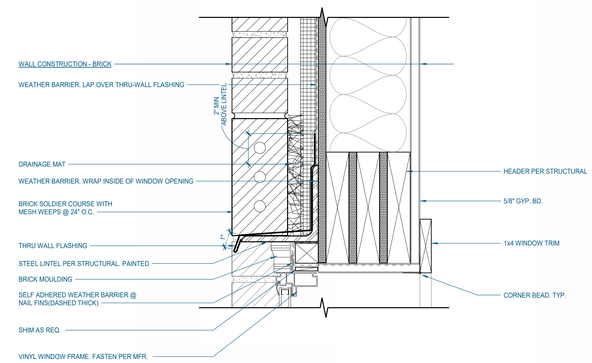
SIDING FACADE WINDOW ELEVATION



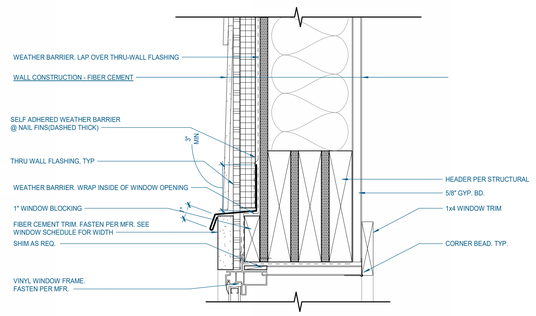
L07 TYP. WINDOW ELEVATIONS
1/2" = 1'-0"



H24 WINDOW JAMB DETAILS - FIBER CEMENT
3" = 1'-0"



F14 WINDOW HEAD DETAIL - BRICK
3" = 1'-0"



F07 WINDOW HEAD DETAIL - FIBER CEMENT
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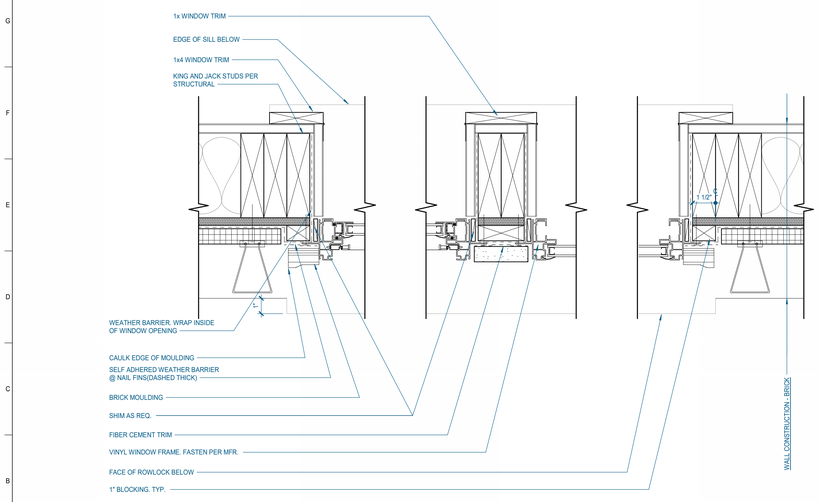
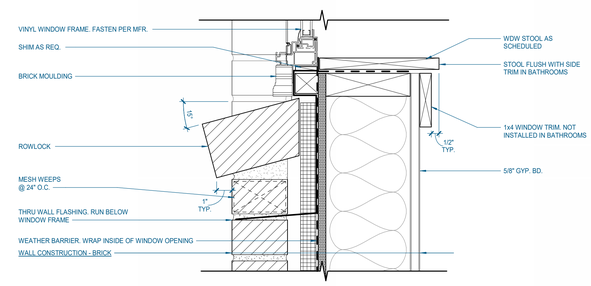
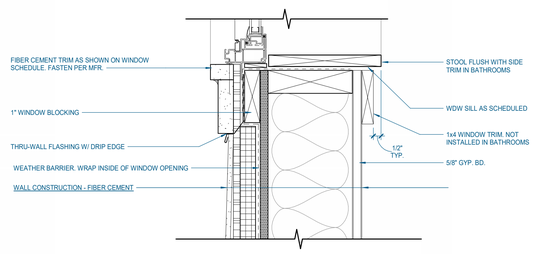


A24 WINDOW JAMB DETAILS - BRICK
3" = 1'-0"



A14 WINDOW SILL DETAIL - BRICK
3" = 1'-0"



A07 WINDOW SILL DETAIL - FIBER CEMENT
3" = 1'-0"

MHM

McCarty Holsaple McCarty, Inc.
550 W. Main St., Suite 300
Knoxville, TN 37902
t.865.544.2000
www.mhminc.com

Consultants:

CIVIL ENGINEER:

HUDDLESTON-STEELE ENGINEERING INC.
2112 N.W. BROAD ST.
MURFREESBORO, TN 37129
615.893.4084

LANDSCAPE ARCHITECT:

RAGAN SMITH
100 E. VINE ST., STE 200
MURFREESBORO, TN 37130
615.546.6050

STRUCTURAL ENGINEER:

HAINES STRUCTURAL GROUP
800 S. GAY ST., STE 1750
KNOXVILLE TN, 37929
865.329.9920

MECHANICAL & PLUMBING ENGINEER:

FACILITY SYSTEMS CONSULTANTS
713 S. CENTRAL ST., STE 101
KNOXVILLE TN, 37902
865.246.0164

ELECTRICAL ENGINEER:

FACILITY SYSTEMS CONSULTANTS
713 S. CENTRAL ST., STE 101
KNOXVILLE TN, 37902
865.246.0164

Project Information:

21026

MHA Parkside Housing
520 EAST CASTLE STREET,
MURFREESBORO, TN 37130

Seal:

Consultant:

#	ISSUE	DATE

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PIC	M. BUTLER
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PA	G. TAYLOR
Drawn By:	Author
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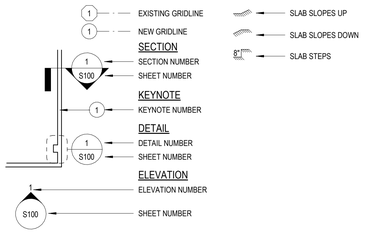
A-603

WINDOW LEGEND & DETAILS

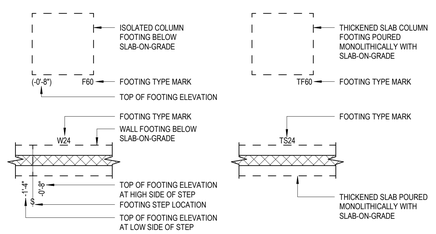
11/15/2023 2:56:50 PM

ACI	AMERICAN CONCRETE INSTITUTE
ADDL	ADDITIONAL
ADH	ADHESIVE
ADJ	ADJACENT, ADJUNCT
ADJT	ADJUSTABLE
AFF	ABOVE FINISHED FLOOR
AGG	AGGREGATE
AHU	AIR HANDLING UNIT
AISC	AMERICAN INSTITUTE OF STEEL CONSTRUCTION
ALT	ALTERNATE
ALUM	ALUMINUM
ANC	ANCHOR
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE
APPD	APPROVED
APPROX	APPROXIMATE
ARCH	ARCHITECT(URAL)
AVG	AVERAGE
AWS	AMERICAN WELDING SOCIETY
LOC(S)	ANCHOR BOLT
B/__	BOTTOM OF __
B/CONC	BOTTOM OF CONCRETE
B/STL	BOTTOM OF STEEL
BD	BOARD
BEL	BELOW
BF	BRACED FRAME
BITUM	BITUMINOUS
BL	BUILDING LINE
BLDG	BUILDING
BLK(G)	BLOCK(ING)
BM	BEAM
BPL	BEARING PLATE
BRCG	BRACING
BRDG	BRIDGING
BRG	BEARING
BRK	BRICK
BS	BOTH SIDES
BT	BENT
BTM	BOTTOM
BTWN	BETWEEN
BW	BOTH WAYS
C	STEEL CHANNEL
CALC	CALCULATION
CDF	CONTROLLED DENSITY FILL
CEM	CEMENT
CFT	CUBIC FOOT
CIP	CAST IN PLACE CONCRETE
CJ	CONTROL JOINT
CL	CENTER LINE
CLR	CLEAR(ANCE) / CLEAR
CM	CENTIMETER(S)
CMU	CONCRETE MASONRY UNIT
COL	COLUMN
COM	COMMON
CONC	CONCRETE
COND	CONDITION
CONN	CONNECTION
CONST	CONSTRUCTION
CONST JT	CONSTRUCTION JOINT
CONT	CONTINUE(OUS)
CONTR	CONTRACT(OR)
CSK	COUNTERSINK, COUNTERSUNK
CTC	CENTER TO CENTER
CTLVR	CANTILEVER
CTR	CENTER
CY	CUBIC YARDS
CYL	CYLINDER
d	PENNY (AS IN NAIL, ld)
DBA	DEFORMED BAR ANCHOR
DBL	DOUBLE
DC	DEMAND CRITICAL WELD
DCON	DRAG CONNECTION
DD	DESIGN DEVELOPMENT
DEG	DEGREE
DEM	DEMOLISH
DEP	DEPRESSED
DEPR	DEPRESSION
DET	DETAIL
DIA	DIAMETER
DIM	DIMENSION
DL	DEAD LOAD
DN	DOWN
DO	DITTO
DTA	DOVETAIL ANCHOR
DTS	DOVETAIL ANCHOR SLOT
DWG	DRAWING
DWLS	DOWELS
(E)	EXISTING
E	EAST
EA	EACH
EB	EXPANSION BOLT
EF	EACH FACE
EIFS	EXTERIOR INSULATION FINISH SYSTEM
EJ	EXPANSION JOINT
ELEC	ELECTRIC(AL)
ELEV	ELEVATION
EO	EDGE OF
EOC	EDGE OF CONCRETE
EOM	EDGE OF MASONRY
EOP	EDGE OF PAVEMENT
EOS	EDGE OF SLAB
EPY	EPOXY COATING
EQ	EQUAL
EQUIV	EQUIVALENT
EST	ESTIMATE(D)
EXP	EXPANSION
EXT	EXTERIOR
F	FAHRENHEIT
FAS	FASTEN(ER)
FB	FLAT BAR
FBO	FURNISHED BY OTHERS
FDN	FOUNDATION
FFE	FINISHED FLOOR ELEVATION
FFL	FINISH FLOOR LINE
FIG	FIGURE
FIN	FINISH(ED)
FLG	FLANGE
FLR	FLOOR
FND	FOUNDATION
FO	FACE OF
FOC	FACE OF CONCRETE
FOF	FACE OF FINISH
FOM	FACE OF MASONRY
FOS	FACE OF STUDS
FS	FAR SIDE
FT	FEET
FTG	FOOTING
FV	FIELD VERIFY
GA	GAUGE OR GAGE
GAL	GALLON(S)
GALV	GALVANIZED
GC	GENERAL CONTRACT(OR)
GEN	GENERAL
GF	GROUND FACE
GLB	GLUE LAMINATED BEAM
GND	GROUND
GOV	GOVERNEMENT
GR	GRADE(ING)
GRTG	GRATING
GT	GROUT
GVL	GRAVEL
GYP	GYPSUM
H.D.	HEAVY DUTY
HC	HOLLOW CORE
HD	HEAD
HDR	HEADER
HDW	HARDWARE
HGT	HEIGHT
HJT	HEAD JOINT
HK	HOOK(S)
HORIZ	HORIZONTAL
HP	STEEL HP SHAPE
HS	HIGH STRENGTH
HT	HEIGHT
HWD	HARDWOOD
ICF	INSULATED CORE FORM, INSULATING CONCRETE FORM
ID	INSIDE DIAMETER
IFC	ISSUE FOR CONSTRUCTION
IN	INCH
INCL	INCLUDE(D)(ING)
INFO	INFORMATION
INT	INTERIOR
INTM	INTERMEDIATE
INV	INVERT(ED)
JST	JOIST
JT	JOINT
K	KIP (1000 POUNDS)
KD	KILN-DRIED
KLF	KIPS PER LINEAR FOOT
KO	KNOCKOUT
KSF	KIPS PER SQUARE FOOT
KSI	KIPS PER SQUARE INCH
L	STEEL ANGLE
LAM	LAMINATE(D)
LAND	LANDSCAPE
LB	LAG BOLT
LBR	LUMBER
LBS	POUNDS
LF	LINEAL FOOT
LG	LONG
LIN	LINEAR
LL	LIVE LOAD
LL	DOUBLE STEEL ANGLE
LLH	LONG LEGS HORIZONTAL
LLV	LONG LEGS VERTICAL
LNTL	LINTEL
LOC(S)	LOCATION(S) OR LOCATE
LONG	LONGITUDINAL
LS	LEFT SIDE
LSL	LAMINATED STRAND LUMBER
LT GA	LIGHT GAGE
LTWT	LIGHT WEIGHT
LVL	LAMINATED VENEER LUMBER
LWC	LIGHT WEIGHT CONCRETE
M	METER(S)
MAS	MASONRY
MATL	MATERIAL(S)
MAX	MAXIMUM
MB	MACHINE BOLTS
MBR	MEMBER
MC	MISC STEEL CHANNEL
MCJ	MASONRY CONTROL JOINT
MECH	MECHANICAL
MED	MEDIUM
MEP	MECHANICAL, ELECTRIAL, PLUMBING
MFR	MANUFACTURER
MIN	MINIMUM
MISC	MISCELLANEOUS
MM	MILLIMETER(S)
MO	MASONRY OPENING
MOD	MODIFIED
MONO	MONOLITHIC
MOV	MOVABLE
MTD	MOUNT(ED)(ING)
MTL	METAL
N	NORTH
NIC	NOT IN CONTRACT
NO	NUMBER
NOM	NOMINAL
NREQD	NOT REQUIRED
NS	NEAR SIDE
NTS	NOT TO SCALE
OC	ON CENTER
OCEW	ON CENTER EACH WAY
OD	OUTSIDE DIAMETER
OH	OVERHEAD
OJ	OPEN-WEB JOIST
OPH	OPPOSITE HAND
OPNG	OPENING
OPP	OPPOSITE
OSB	ORIENTED STRAND BOARD
OTS	OPEN TO STRUCTURE
P-T	POST-TENSIOND
PAR	PARALLEL
PCC	PRECAST CONCRETE
PCF	POUNDS PER CUBIC FOOT
PED	PEDESTAL
PERF	PERFORATE(D)
PERI	PERIMETER
PERP	PERPENDICULAR
PF	PRE-FINISHED
PI	POINT OF INTERSECTION
PL	PLATE
PLBG	PLUMBING
PLF	POUNDS PER LINEAR FOOT
PLG	PILING
PLYWD	PLYWOOD
PNL	PANEL
PNT	PENETRANT TESTING
PREFAB	PREFABRICATE(D)
PREFIN	PREFINISHED
PRF	PREFORMED
PROJ	PROJECT
PSC	PRESTRESSED CONCRETE
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PSL	PARALLEL STRAND LUMBER
PT	PRESSURE TREATED
PTC	POST-TENSIONED CONCRETE
PVC	POLYVINYLCHLORIDE
QTY	QUANTITY
R#	REVISION, REVISED
RAD	RADIUS
RCP	REFLECTED CEILING PLAN
REF	REFERENCE
REINF	REINFORCE(D)
REQD	REQUIRED
REQT	REQUIREMENT(S)
REV	REVISIONS, REVISED
RFG	ROOFING
RGH	ROUGH
RND	ROUND
RO	ROUGH OPENING
ROW	RIGHT OF WAY
RS	RIGHT SIDE
S	SOUTH
SCHED	SCHEDULE
SD	SCHEMATIC DESIGN
SDI	STEEL DECK INSTITUTE
SDS	SELF DRILLED SCREW
SGN	STRUCTURAL GENERAL NOTES
SHT	SHEET
SHTG	SHEATHING
SIM	SIMILAR
SJI	STEEL JOIST INSTITUTE
SOG	SLAB ON GRADE
SOH	SIMILAR, OPPOSITE HAND
SPEC	SPECIFICATION(S)
SQ	SQUARE
SSTL	STAINLESS STEEL
STD	STANDARD
STL	STEEL
STRUCT	STRUCTURE(AL)
SW	SHEAR WALL
T&G	TONGUE & GROOVE
T/__	TOP OF __
TEMP	TEMPORARY
THK	THICK(NESS)
TO	TOP OF
TOC	TOP OF CONCRETE
TOL	TOLERANCE
TOM	TOP OF MASONRY
TOP	TOP OF PLATE
TOPO	TOPOGRAPHY
TOS	TOP OF STEEL
TOSL	TOP OF SLAB
TOT	TOP OF TRUSS
TOW	TOP OF WALL
TRANS	TRANSVERSE
TYP	TYPICAL
UNO	UNLESS NOTED OTHERWISE
UT	ULTRASONIC TESTING
VERT	VERTICAL
VNR	VENEER
VOL	VOLUME
W	WEST
W	STEEL WIDE FLANGE BEAM
W/	WITH
W/O	WITHOUT
WD	WOOD
WD BLK	WOOD BLOCKING
WID	WIDTH
WM	WIRE MESH
WP	WORK POINT
WS	WATER STOP
WT	WEIGHT
WTS	WELDED THREADED STUD
WTW	WALL-TO-WALL
WWF	WELDED WIRE FABRIC
WWM	WELDED WIRE MESH
XS	EXTRA STRONG
XXS	DOUBLE EXTRA STRONG

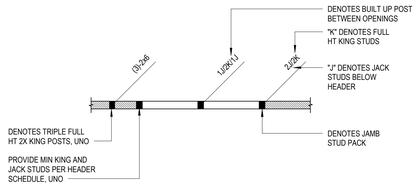
ABBREVIATIONS



MISCELLANEOUS PLAN SYMBOLS



FOOTING SYMBOLS & SCHEDULE MARKS



WOOD STUD WALL KEY

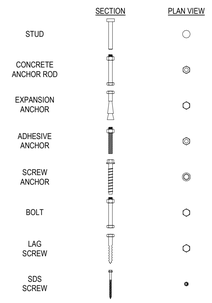
STRUCTURAL SHEET LIST	
SHEET NUMBER	SHEET NAME
S-001	ABBREVIATIONS, SYMBOLS, AND LEGENDS
S-002	STRUCTURAL GENERAL NOTES
S-003	SPECIAL INSPECTIONS
S-004	TYPICAL CONCRETE DETAILS
S-005	TYPICAL WOOD DETAILS
S-006	TYPICAL WOOD DETAILS
S-007	TYPICAL STEEL DETAILS
S-100	OVERALL SITE PLAN
S-110	BUILDING A - FOUNDATION PLAN
S-111	BUILDING A - LEVEL 2 FRAMING PLAN
S-112	BUILDING A - ROOF FRAMING PLAN
S-120	BUILDING B - FOUNDATION PLAN
S-121	BUILDING B - LEVEL 2 FRAMING PLAN

STRUCTURAL SHEET LIST

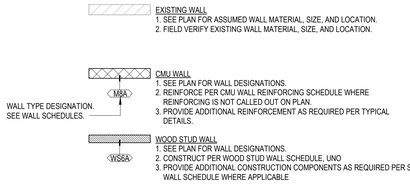
STRUCTURAL SHEET LIST	
SHEET NUMBER	SHEET NAME
S-122	BUILDING B - LEVEL 3 FRAMING PLAN
S-123	BUILDING B - ROOF FRAMING PLAN
S-130	BUILDING C - FOUNDATION PLAN
S-131	BUILDING C - LEVEL 2 FRAMING PLAN
S-132	BUILDING C - LEVEL 3 FRAMING PLAN
S-133	BUILDING C - ROOF FRAMING PLAN
S-140	DUMPSTER ENCLOSURE, MAIL KIOSK, AND SIGNAGE PLANS & DETAILS
S-201	SECTIONS & DETAILS
S-202	SECTIONS & DETAILS
S-203	SECTIONS & DETAILS
S-204	SECTIONS & DETAILS
S-205	SECTIONS & DETAILS

STRUCTURAL SHEET LIST

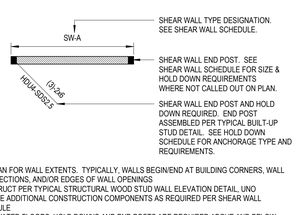
CONNECTOR SYMBOLS



STRUCTURAL WALL TYPES



WOOD SHEAR WALL KEY



NOTES:
1. SEE PLAN FOR WALL EXTENTS. TYPICALLY, WALLS BEGIN/END AT BUILDING CORNERS, WALL INTERSECTIONS, AND/OR EDGES OF WALL OPENINGS
2. CONSTRUCT PER TYPICAL STRUCTURAL WOOD STUD WALL ELEVATION DETAIL, UNO
3. PROVIDE ADDITIONAL CONSTRUCTION COMPONENTS AS REQUIRED PER SHEAR WALL SCHEDULE
4. AT ELEVATED FLOORS, HOLD DOWNS AND END POSTS ARE REQUIRED ABOVE AND BELOW FLOOR. SEE TYPICAL DETAIL.
5. SHEAR WALL END POST STUDS ARE FULL HT KING STUDS IN ADDITION TO REQUIRED JACK STUDS.

COMPONENTS AND CLADDING WIND PRESSURES

BUILDING A - COMPONENTS AND CLADDING DESIGN ULTIMATE WIND PRESSURES (PSF)

ROOF				
ZONE	10 SF	20 SF	100 SF	200 SF
1 & 2e	-37.9	-37.9	-28.5	-24.5
2n, 2r & 3e	-60.5	-53.0	-35.6	-31.2
3r	-70.6	-59.5	-44.7	-44.7
POS ALL	+16.2	+16.0	+16.0	16.0
2eo	-45.2	-45.2	-42.5	-41.3
2no	-67.7	-63.1	-52.4	-49.7
3eo	-81.3	-70.3	-44.8	-38.4
3ro	-86.5	-71.6	-51.9	-51.9
WALLS				
ZONE	10 SF	100 SF	200 SF	500 SF
4	-28.9	-24.9	-23.7	-22.1
5	-35.7	-27.7	-25.3	-22.1
4&5	+26.6	+22.7	+21.5	+19.9

NOTES:
1. TABLE PRESSURES ARE FOR THE SQUARE FOOT TRIBUTARY AREA SHOWN. FOR OTHER TRIBUTARY AREAS, LINEARLY INTERPOLATE BETWEEN VALUES SHOWN ABOVE.
2. POSITIVE PRESSURES ACT TOWARD THE SURFACES. NEGATIVE PRESSURES ACT AWAY FROM THE SURFACES.
3. ROOF UPLIFT PRESSURES LISTED ARE GROSS PRESSURES. A MIN DEAD LOAD OF 9.0 PSF MAY BE APPLIED.
4. θ = ROOF ANGLE FROM HORIZONTAL

a = 3.8 FT

BUILDING B - COMPONENTS AND CLADDING DESIGN ULTIMATE WIND PRESSURES (PSF)

ROOF				
ZONE	10 SF	20 SF	100 SF	200 SF
1 & 2e	-48.5	-41.1	-24.0	-24.0
2n, 2r & 3e	-53.4	-47.7	-34.6	-28.9
3r	-65.5	-58.0	-40.7	-33.3
POS ALL	+17.6	+16.0	+16.0	+16.0
2eo	-59.3	-51.9	-34.8	-34.8
2no	-68.6	-62.9	-49.7	-44.1
3eo	-80.6	-73.2	-55.9	-48.4
3ro				
WALLS				
ZONE	10 SF	100 SF	200 SF	500 SF
4	-31.3	-27.0	-25.7	-24.0
5	-38.7	-30.0	-27.4	-24.0
4&5	+28.9	+24.6	+23.3	+21.5

NOTES:
1. TABLE PRESSURES ARE FOR THE SQUARE FOOT TRIBUTARY AREA SHOWN. FOR OTHER TRIBUTARY AREAS, LINEARLY INTERPOLATE BETWEEN VALUES SHOWN ABOVE.
2. POSITIVE PRESSURES ACT TOWARD THE SURFACES. NEGATIVE PRESSURES ACT AWAY FROM THE SURFACES.
3. ROOF UPLIFT PRESSURES LISTED ARE GROSS PRESSURES. A MIN DEAD LOAD OF 9.0 PSF MAY BE APPLIED.
4. θ = ROOF ANGLE FROM HORIZONTAL

a = 4.2 FT

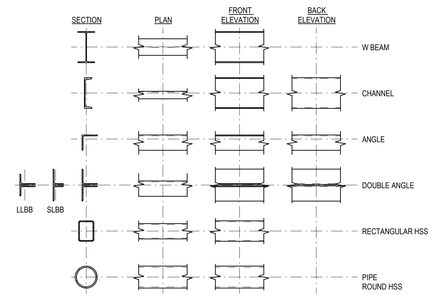
BUILDING C - COMPONENTS AND CLADDING DESIGN ULTIMATE WIND PRESSURES (PSF)

ROOF				
ZONE	10 SF	20 SF	100 SF	200 SF
1 & 2e	-41.1	-41.1	-31.0	-26.6
2n, 2r & 3e	-65.6	-57.5	-38.6	-33.8
3r	-76.6	-64.5	-48.5	-48.5
POS ALL	+17.5	+16.0	+16.0	+16.0
2eo	-49.0	-49.0	-46.1	-44.8
2no	-73.5	-68.4	-56.8	-53.9
3eo	-88.2	-76.2	-48.6	-41.6
3ro	-93.8	-77.6	-56.3	-56.3
WALLS				
ZONE	10 SF	100 SF	200 SF	500 SF
4	-31.3	-27.0	-25.7	-24.0
5	-38.7	-30.0	-27.4	-24.0
4&5	+28.9	+24.6	+23.3	+21.5

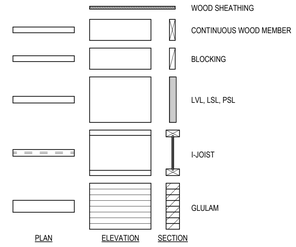
NOTES:
1. TABLE PRESSURES ARE FOR THE SQUARE FOOT TRIBUTARY AREA SHOWN. FOR OTHER TRIBUTARY AREAS, LINEARLY INTERPOLATE BETWEEN VALUES SHOWN ABOVE.
2. POSITIVE PRESSURES ACT TOWARD THE SURFACES. NEGATIVE PRESSURES ACT AWAY FROM THE SURFACES.
3. ROOF UPLIFT PRESSURES LISTED ARE GROSS PRESSURES. A MIN DEAD LOAD OF 9.0 PSF MAY BE APPLIED.
4. θ = ROOF ANGLE FROM HORIZONTAL

a = 4.0 FT

STEEL SHAPE SYMBOLS



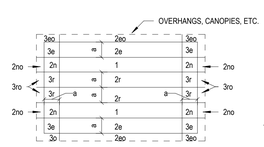
WOOD SYMBOLS



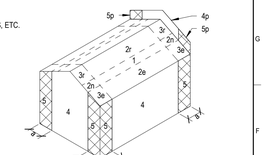
TYPICAL SHEET LAYOUT

1	2	3	4	5
6	7	8	9	10
11	12	13	14	15
16	17	18	19	20
21	22	23	24	25

NOTES:
1. NUMBERING ON SHEETS FOLLOWS LAYOUT ABOVE.
2. NUMBERING MAY NOT BE SEQUENTIAL ON SHEETS.



ROOF PLAN (GENERIC BUILDING SHOWN)
(7°< Θ ≤ 45°)



WALLS (GENERIC BUILDING SHOWN)

MHM

McCarty Holsaple McCarty, Inc.
550 W. Main St., Suite 300
Knoxville, TN 37902
t 865.544.2000
www.mhminc.com

Consultants:

CIVIL ENGINEER:
HUDDLESTON-STEELE ENGINEERING INC.
2112 N.W. BROAD ST.
MURFREESBORO, TN 37129
615.893.4084

LANDSCAPE ARCHITECT:
RAGAN SMITH
100 E. VINE ST., STE 200
MURFREESBORO, TN 37130
615.546.6050

STRUCTURAL ENGINEER:
HAINES STRUCTURAL GROUP
800 S. GAY ST., STE 1750
KNOXVILLE TN, 37929
865.329.9920

MECHANICAL & PLUMBING ENGINEER:
FACILITY SYSTEMS CONSULTANTS
713 S. CENTRAL ST., STE 101
KNOXVILLE TN, 37902
865.246.0164

ELECTRICAL ENGINEER:
FACILITY SYSTEMS CONSULTANTS
713 S. CENTRAL ST., STE 101
KNOXVILLE TN, 37902
865.246.0164

Project Information:

21026

MHA Parkside Housing

520 EAST CASTLE STREET,
MURFREESBORO, TN 37130

Seal:

Consultant:

HAINES STRUCTURAL GROUP
800 S. GAY STREET, STE 1750 KNOXVILLE, TN 37929
(865) 329-9920 | WWW.HAINES-SG.COM
project no. 21187

#	ISSUE	DATE
1	Revision 01 - City Comments Response	8/23/2022

Issue Date:	04/04/2022
PIC	RAH
PM	GRG
PA	G. TAYLOR
Drawn By:	CWR
Checked By:	GRG

Sheet Description:

S-001

ABBREVIATIONS, SYMBOLS, AND LEGENDS

9/22/2022 11:34:30 AM

USE OF DRAWINGS

TYPICAL DETAILS: ALL TYPICAL DETAILS AND NOTES SHOWN IN THE DRAWINGS SHALL APPLY UNLESS NOTED OTHERWISE. TYPICAL DETAILS MAY NOT NECESSARILY BE INDICATED ON THE PLANS BUT SHALL STILL APPLY AS SHOWN OR DESCRIBED IN THE DETAILS. WHERE TYPICAL DETAILS ARE NOTED ON THE DRAWINGS, THE SPECIFIED TYPICAL DETAIL SHALL BE USED. WHERE NO DETAIL IS NOTED, IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO CHOOSE THE APPROPRIATE TYPICAL DETAIL FROM THOSE PROVIDED. THE CONTRACTOR SHALL SUBMIT ALL PROPOSED ALTERNATE TYPICAL DETAILS TO THOSE PROVIDED WITH RELATED CALCULATIONS TO THE ENGINEER FOR APPROVAL PRIOR TO SHOP DRAWING PRODUCTION AND FIELD USE.

STRUCTURAL GENERAL NOTES: NOTES ON THE STRUCTURAL GENERAL NOTES SHEET ARE APPLICABLE UNLESS SPECIFICALLY NOTED OTHERWISE ON THE DRAWINGS.

USE OF DRAWINGS AND COORDINATION: USE STRUCTURAL DRAWINGS IN CONJUNCTION WITH ARCHITECTURAL, CIVIL, MECHANICAL AND OTHER DRAWINGS FOR BIDDING AND CONSTRUCTION. SEE ARCHITECTURAL, MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS FOR EMBEDS, OPENINGS, SLEEVES, ETC NOT SHOWN ON THE STRUCTURAL DRAWINGS. COORDINATE WORK AND VERIFY DIMENSIONS AND CONDITIONS FOR COMPATIBILITY BETWEEN TRADES AND EQUIPMENT PURCHASED. NOTIFY OWNER'S REPRESENTATIVE OF DISCREPANCIES PRIOR TO CONSTRUCTION.

DRAWING SCALE: NOTED DIMENSIONS TAKE PRECEDENCE OVER SCALED DIMENSIONS - DO NOT SCALE DRAWINGS.

DIMENSION VERIFICATION: DIMENSIONS NOTED PLUS OR MINUS (+/-) OR AS 'FIELD VERIFY' INDICATE UN-VERIFIED DIMENSIONS THAT REQUIRE CONFIRMATION OR DETERMINATION BY THE CONTRACTOR PRIOR TO FABRICATION AND CONSTRUCTION. NOTIFY OWNER'S REPRESENTATIVE IMMEDIATELY OF CONFLICTS OR VARIATIONS FROM INDICATED DIMENSIONS.

NOTE CONFLICTS: IF ANY STRUCTURAL NOTES ARE IN CONFLICT WITH EACH OTHER ARCHITECTURAL, OTHER DRAWINGS, OR THE SPECIFICATIONS, USE THE MOST STRINGENT REQUIREMENT FOR BIDDING AND CONSTRUCTING THE WORK.

EXISTING CONDITIONS: INFORMATION SHOWN ON THE DRAWINGS RELATED TO EXISTING CONDITIONS REPRESENTS THE PRESENT KNOWLEDGE, BUT WITHOUT GUARANTEE OF ACCURACY. VERIFY ALL EXISTING DIMENSIONS, MEMBER SIZES, AND CONDITIONS IN THE FIELD PRIOR TO COMMENCING ANY WORK. IMMEDIATELY REPORT CONDITIONS THAT CONFLICT WITH THE CONTRACT DOCUMENTS TO THE ENGINEER OF RECORD. DO NOT DEVIATE FROM THE CONTRACT DOCUMENTS WITHOUT WRITTEN DIRECTION FROM THE ENGINEER OF RECORD.

DESIGN BY OTHERS: ANY ENGINEERING DESIGN PROVIDED BY OTHERS AND SUBMITTED FOR REVIEW SHALL BEAR THE SEAL OF AN ENGINEER REGISTERED IN THE STATE OF THE PROJECT AND BE ACCOMPANIED BY SUBSTANTIATING CALCULATIONS.

MEANS AND METHODS

MEANS AND METHODS: HAINES STRUCTURAL GROUP, INC. OR ANY OF ITS EMPLOYEES SHALL NOT HAVE CONTROL OR BE RESPONSIBLE FOR CONSTRUCTION MEANS AND METHODS, TECHNIQUES, PROCEDURES, SEQUENCES, ACTS OR OMISSIONS OF THE CONTRACTOR OR ANY OTHER PERSONS PERFORMING THE WORK, OR FOR THE FAILURE OF ANY OF INDIVIDUAL OR COMPANY TO SAFELY CARRY OUT THE WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.

STABILITY: THE CONTRACTOR SHALL PROVIDE NECESSARY BRACING AND SHORING AS REQUIRED UNTIL THE BUILDING'S STRUCTURAL SYSTEMS HAVE BEEN COMPLETED. THE STRUCTURE SHALL NOT BE CONSIDERED STABLE UNTIL ALL STRUCTURAL ELEMENTS HAVE BEEN CONSTRUCTED IN ACCORDANCE WITH THE CONTRACT DOCUMENTS. THE CONTRACTOR SHALL RETAIN A QUALIFIED LICENSED STRUCTURAL ENGINEER WHO SHALL DETERMINE WHERE TEMPORARY SHORING/BRACING IS REQUIRED AND PROVIDE ITS DESIGN. PROVIDE THE TEMPORARY BRACING AS REQUIRED TO STABILIZE THE STRUCTURE AND ITS COMPONENTS UNTIL ALL FINAL CONNECTIONS HAVE BEEN COMPLETED ACCORDING TO THE CONTRACT DOCUMENTS.

JOBSITE SAFETY: THE CONTRACTOR IS SOLELY RESPONSIBLE FOR PROVIDING A SAFE PLACE TO WORK AND FOR MEETING THE REQUIREMENTS OF ALL APPLICABLE JURISDICTIONS. EXECUTE WORK IN A MANNER THAT PROVIDES FOR THE SAFETY OF PERSONS AND ADJACENT PROPERTY AGAINST INJURY AND DAMAGE DUE TO FALLING DEBRIS AND OTHER HAZARDS IN CONNECTION WITH CONSTRUCTING THE WORK.

CONSTRUCTION LOADING: THE CONTRACTOR IS RESPONSIBLE FOR PROTECTING THE STRUCTURE DURING CONSTRUCTION. WHERE CONSTRUCTION SEQUENCING AND STAGING ARE LIKELY TO CREATE OVERLOADING, THE CONTRACTOR SHALL RETAIN A QUALIFIED STRUCTURAL ENGINEER TO DETERMINE HOW TO TEMPORARILY SHORE AND SUPPORT THE OVERLOADED ELEMENTS IN A MANNER THAT DOES NOT EXCEED THE STRESS LIMITS OF THE ELEMENTS AND THE SUPPORTING FOUNDATION AS DEFINED BY THE APPLICABLE BUILDING CODES.

GEOTECHNICAL

ASSUMED SOIL DESIGN PARAMETERS: A GEOTECHNICAL REPORT HAS NOT BEEN PROVIDED TO THE ENGINEER. THE FOUNDATION SYSTEM HAS BEEN DESIGNED USING THE FOLLOWING ASSUMED SOIL PARAMETERS. THE CONTRACTOR SHALL EMPLOY A TESTING LABORATORY TO VERIFY AND INSPECT THE FOLLOWING DESIGN PARAMETERS. A GEOTECHNICAL ENGINEER LICENSED IN THE PROJECT STATE EMPLOYED BY THE TESTING LABORATORY SHALL REVIEW AND VERIFY THE FOLLOWING DESIGN PARAMETERS TO ENSURE THAT ANTICIPATED TOTAL SETTLEMENT WILL NOT EXCEED ONE INCH. SHOULD ACTUAL CONDITIONS BE DETERMINED TO DEVIATE FROM THE VALUES SPECIFIED, THE TESTING LABORATORY AND THE CONTRACTOR SHALL NOTIFY ARCHITECT AND ENGINEER BEFORE CONSTRUCTION OF THE SHALLOW FOUNDATION SYSTEM.

ALLOWABLE BEARING PRESSURE:	2000 PSF
FROST DEPTH:	18 INCHES
BUILDING PAD:	
SUBGRADE MODULUS:	125 PCI
COEFFICIENT OF FRICTION:	0.35
FOUNDATION/RETAINING WALL:	
WEIGHT OF BACKFILL MATERIAL:	110 PCF
AT REST PRESSURE:	55 PSF/FT
ACTIVE PRESSURE:	35 PSF/FT
PASSIVE PRESSURE:	330 PSF/FT
COEFFICIENT OF FRICTION:	0.35

GEOTECH APPROVAL: THE GEOTECHNICAL ENGINEER SHALL OBSERVE AND APPROVE PREPARED SOIL BEARING SURFACES PRIOR TO PLACEMENT OF REINFORCING STEEL AND CASTING OF FOOTINGS AND SLABS. THE GEOTECHNICAL ENGINEER OR AN APPROVED TESTING LAB SHALL OBSERVE SOIL COMPACTION WORK.

SUBGRADE PREP: SUBGRADE PREPARATION INCLUDING DRAINAGE, EXCAVATION, COMPACTION, AND FILLING REQUIREMENTS SHALL CONFORM STRICTLY TO THE CONTRACT DOCUMENTS, THE RECOMMENDATIONS GIVEN IN THE GEOTECHNICAL REPORT, AND AS DIRECTED BY THE GEOTECHNICAL ENGINEER.

UTILITIES: DETERMINE THE LOCATION OF ALL NEW/EXISTING UNDERGROUND UTILITIES IN AND ADJACENT TO THE AREA OF WORK PRIOR TO COMMENCING EXCAVATION. COORDINATE UTILITY LOCATIONS WITH FOUNDATIONS AS REQUIRED.

EXISTING STRUCTURES: CONTRACTOR SHALL CONFIRM THE ASBUILT LOCATION OF ANY POTENTIAL NEW OR EXISTING STRUCTURES OR OBJECTS WITHIN THE ZONE OF EXCAVATION INCLUDING WORK PERFORMED AS A PORTION OF THIS PROJECT BEFORE EXCAVATING OR INSTALLING FOUNDATION ELEMENTS. NOTIFY THE STRUCTURAL ENGINEER BEFORE PROCEEDING WITH ANY EXCAVATIONS OR OTHER SITE WORK, IF THE EXCAVATION WILL CUT BELOW AN ADJACENT STRUCTURE'S BOTTOM OF FOOTING ELEVATION OR IF AN ADJACENT STRUCTURE IS UPSLOPE FROM THE PLANNED SITE WORK.

BACKFILL: BACKFILL FOOTINGS AND RETAINING WALLS WITH FREE DRAINING GRANULAR FILL. PROVIDE A SUBSURFACE DRAINAGE SYSTEM FOR FOUNDATION AND RETAINING WALLS BASED ON THE GEOTECHNICAL REPORT RECOMMENDATIONS. DO NOT BACKFILL BEHIND WALLS BEFORE ADJACENT SUPPORTING ELEMENTS ARE COMPLETE AND CURED. ALTERNATIVELY, PROVIDE DESIGN AND CONSTRUCTION OF TEMPORARY BRACING THAT PROTECTS THE WALL AGAINST OVERSTRESS OR MOVEMENT.

WEEP HOLES: PROVIDE 2" DIAMETER WEEP HOLES AT 6'-0" OC MAXIMUM IN EXTERIOR RETAINING WALLS. PROVIDE FILTER FABRIC OR STAINLESS STEEL WIRE MESH OVER THE WEEP HOLE TO RETAIN THE BACKFILL MATERIAL.

SLAB-ON-GRADE BASE: AGGREGATE BASE (GRANULAR FILL) BELOW CONCRETE SLAB-ON-GRADE SHALL CONSIST OF MATERIAL AS RECOMMENDED BY THE GEOTECHNICAL ENGINEER AND BASED ON LOCAL AVAILABILITY.

FOOTINGS: FOOTINGS SHALL BEAR ON SOLID UNDISTURBED EARTH (CONTROLLED, COMPACTED STRUCTURAL FILL OR BOTH) AT LEAST FROST DEPTH BELOW LOWEST ADJACENT FINISHED GRADE. FOOTING DEPTHS/ELEVATIONS SHOWN ON PLANS AND DETAILS ARE MINIMUM. ESTABLISH THE ACTUAL BOTTOM-OF-FOOTING ELEVATIONS IN THE FIELD, BASED UPON THE GEOTECHNICAL ENGINEER'S ON-SITE OBSERVATIONS AND ADDITIONAL TESTING, IF REQUIRED, THAT WILL ACHIEVE THE ALLOWABLE DESIGN BEARING PRESSURE. NOTIFY ENGINEER OF ANY NECESSARY DEVIATIONS FROM THE FOOTING ELEVATIONS SHOWN ON THE DRAWINGS PRIOR TO CONSTRUCTING THE FOOTINGS.

CONCRETE PLACEMENT: FOUNDATION CONCRETE SHALL BE PLACED THE SAME DAY THE EXCAVATION IS MADE WHEN FEASIBLE. WHERE FOUNDATION EXCAVATIONS MUST REMAIN OPEN OR EXPOSED, SPECIAL CARE SHOULD BE TAKEN TO PROTECT THE EXPOSED SOILS FROM BEING DISTURBED, SATURATED, OR DRIED OUT PRIOR TO THE PLACEMENT OF SELECT FILL OR CONCRETE WITH A MUD MAT OF LEAN (250 PSI) CONCRETE OR AS APPROVED BY THE GEOTECHNICAL ENGINEER.

FORMS: THE EXTERIOR VERTICAL FACE OF ALL EXPOSED SLAB TURNDOWNS SHALL BE FORMED. THE SIDES OF FOOTINGS MAY BE EARTH FORMED AS LONG AS THE SOIL WILL MAINTAIN A VERTICAL FACE. ALL FOUNDATION STEM WALLS AND RETAINING WALLS SHALL BE FORMED ON BOTH SIDES OF THE WALL.

EXCAVATION: THE CONTRACTOR IS SOLELY RESPONSIBLE FOR EXCAVATION PROCEDURES INCLUDING LAGGING, SHORING, UNDERPINNING AND PROTECTION OF EXISTING CONSTRUCTION. COMPLY WITH ALL APPLICABLE OSHA REGULATIONS.

COMPACTION: MECHANICALLY COMPACT EXCAVATION BACKFILL IN LAYERS. PROVIDE THE FOLLOWING MINIMUM COMPACTION IN ACCORDANCE WITH THE ASTM D1557 TEST METHOD UNLESS NOTED OTHERWISE IN THE GEOTECHNICAL REPORT:

TRENCH AND WALL BACKFILL:	90% MAXIMUM DRY DENSITY
FILL BENEATH SLAB-ON-GRADE:	95% MAXIMUM DRY DENSITY
FILL BENEATH FOOTINGS:	98% MAXIMUM DRY DENSITY

DESIGN AND CONSTRUCTION CRITERIA

GOVERNING BUILDING CODE: ALL DESIGN AND CONSTRUCTION SHALL CONFORM TO THE REQUIREMENTS OF THE **2018** INTERNATIONAL BUILDING CODE (IBC).

PRIMARY REFERENCE STANDARDS: THE PUBLICATIONS LISTED BELOW ARE THE MATERIAL SPECIFIC GOVERNING CODES AND STANDARDS USED REFERENCED BY THEIR BASIC DESIGNATION. IN THE CASE OF CONFLICTING REQUIREMENTS, THE BUILDING CODE SHALL GOVERN. ADDITIONAL MATERIAL SPECIFIC DESIGN STANDARDS ARE ALSO LISTED UNDER THE RESPECTIVE MATERIAL SECTION OF THESE GENERAL NOTES. FOR ALL STANDARDS, USE THE VERSION REFERENCED BY THE GOVERNING BUILDING CODE. IF NOT REFERENCED BY GOVERNING BUILDING CODE, USE THE LATEST EDITION.

ACI 318-14	AMERICAN CONCRETE INSTITUTE BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE
NDS-2018	AMERICAN FOREST AND PAPER ASSOCIATION, NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION
ASCE 7-16	AMERICAN SOCIETY OF CIVIL ENGINEERS MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS (ASTM INTERNATIONAL)
ICC	INTERNATIONAL CODE COUNCIL, INTERNATIONAL CODE COUNCIL - EVALUATION SERVICES (ICC-ES)

MATERIAL PROPERTIES: MATERIAL PROPERTIES LISTED IN THE CONSTRUCTION DOCUMENTS ARE BASED UPON MATERIALS CURRENTLY AVAILABLE FOR CONSTRUCTION AND MAY NOT CORRESPOND WITH TABLES PROVIDED IN THE CODES AND SPECIFICATIONS LISTED HEREIN. WHERE POSSIBLE, THESE CODES HAVE BEEN USED IN THEIR ENTIRETY. WHERE THESE CODES REFERENCE OBSOLETE INFORMATION, INFORMATION BASED UPON CURRENT INDUSTRY STANDARDS HAS BEEN SUBSTITUTED AS NECESSARY.

PROJECT STATE: THE PROJECT IS TO BE CONSTRUCTED IN THE STATE OF TENNESSEE.

DESIGN LOADS: BUILDING DESIGN LOADS HAVE BEEN DETERMINED IN ACCORDANCE WITH THE BUILDING CODE AND ASCE 7 AS FOLLOWS:

ROOF DEAD LOADS:

ROOFING	3 PSF
5/8" PLYWOOD SHEATHING	2 PSF
WOOD TRUSSES	3.5 PSF
5/8" GYP CEILING	3 PSF
INSULATION ALLOWANCE	1.5 PSF
M,E,& P ALLOWANCE	4 PSF
EQUIPMENT	ACTUAL WEIGHT
TOTAL DESIGN DL=	20 PSF

DESIGN AND CONSTRUCTION CRITERIA CONT

ELEVATED FLOOR DEAD LOADS:

FLOOR COVERING	3.5 PSF
3/4" PLYWOOD SHEATHING	2.5 PSF
WOOD TRUSSES	4.5 PSF
5/8" GYP CEILING	3 PSF
EQUIPMENT	ACTUAL WEIGHT
STEEL FRAMING	SELF-WEIGHT
INSULATION ALLOWANCE	1.5 PSF
M,E,& P ALLOWANCE	5 PSF
TOTAL DESIGN DL=	20 PSF

LIVE LOADS:

ROOF	20 PSF
PARTITIONS	15 PSF
RESIDENTIAL	40 PSF
RESIDENTIAL DECKS	60 PSF
RESIDENTIAL BALCONIES	60 PSF
UNINHABITABLE ATTICS W/O STORAGE	10 PSF

SNOW LOAD:
GROUND SNOW LOAD: Pg - 10 PSF
SNOW DRIFT LOADS PER ASCE 7, SECTION 7.7.

RAIN LOAD:
DESIGN RAINFALL INTENSITY i - 3.0 IN/H

WIND LOADS:

ANALYSIS PROCEDURE:	METHOD 2 – ANALYTICAL PROCEDURE
DESIGN WIND SPEED:	Vult - 105 MPH Vasd - 85 MPH
RISK CATEGORY:	II
EXPOSURE CATEGORY:	C, ALL FACES
DIRECTIONALITY FACTOR, Kd:	0.85
TOPOGRAPHIC FACTOR, Kzt:	1.00
INTERNAL PRESSURE COEFFICIENT:	± 0.18

COMPONENTS & CLADDING WIND PRESSURES, SEE DIAGRAMS

SEISMIC LOAD:

ANALYSIS PROCEDURE:	EQUIVALENT LATERAL FORCE PROCEDURE
SITE CLASS:	D
RISK CATEGORY:	II
SEISMIC IMPORTANCE FACTOR:	Ie = 1.0
SEISMIC DESIGN CATEGORY:	C
MAPPED SPECTRAL RESPONSE ACCELERATIONS:	Ss – 0.248 S1 – 0.124
DESIGN SPECTRAL RESPONSE ACCELERATIONS:	Sds – 0.264 Sd1 – 0.194

SEISMIC LOAD RESISTING SYSTEMS:

LIGHT-FRAME (WOOD) WALLS SHEATHED WITH WOOD STRUCTURAL PANELS RATED FOR SHEAR RESISTANCE

RESPONSE MODIFICATION FACTOR:	R = 6.50
OVER-STRENGTH FACTOR	Ω_0 = 2.5
DEFLECTION AMPLIFICATION FACTOR:	C_d = 4.00
SEISMIC RESPONSE COEFFICIENT:	Cs - 0.41

DESIGN BASE SHEAR BUILDING A:	13 KIPS
DESIGN BASE SHEAR BUILDING B:	30 KIPS
DESIGN BASE SHEAR BUILDING C:	22 KIPS

ROOF DRAINAGE: THE ROOF FRAMING SYSTEM HAS BEEN DESIGNED WITH THE ASSUMPTION THAT A DRAINAGE SYSTEM ADEQUATE TO PREVENT PONDING WILL BE PROVIDED.

SLAB-ON-GRADE: SLABS-ON-GRADE ARE NOT DESIGNED FOR CONCENTRATED LOADS SUCH AS THOSE FROM FORKLIFTS OR STORAGE RACKS.

SITE VISITS: THE STRUCTURAL ENGINEER WILL OBSERVE THE CONSTRUCTION ONLY AS REQUESTED BY THE ARCHITECT AS SPECIFIED IN THE ARCHITECT-ENGINEER AGREEMENT FOR THE PROJECT. STRUCTURAL OBSERVATIONS REQUIRED BY THE PROJECT SPECIFICATIONS OR THE BUILDING CODE, MUST BE PERFORMED BY A STRUCTURAL OBSERVER APPROVED BY THE ARCHITECT.

HANDRAILS: DESIGN LOADS FOR HANDRAILS SHALL BE AS FOLLOWS:
A. 200 LB CONCENTRATED LOAD APPLIED AT ANY POINT AND IN ANY DIRECTION.
B. 50 PLF APPLIED IN ANY DIRECTION.
THESE LOADS ARE NOT TO BE APPLIED SIMULTANEOUSLY, BUT EACH SHALL BE APPLIED TO PRODUCE MAXIMUM STRESSES IN EACH OF THE RESPECTIVE HANDRAIL COMPONENTS.

GUARDRAILS: DESIGN LOADS FOR GUARDRAILS SHALL BE AS FOLLOWS:
A. 200 LB CONCENTRATED LOAD APPLIED AT ANY POINT AND IN ANY DIRECTION AT THE TOP OF THE GUARDRAIL.
B. 50 PLF APPLIED HORIZONTALLY AND A SIMULTANEOUS LOAD OF 100 PLF APPLIED VERTICALLY DOWNWARD AT THE TOP OF THE GUARDRAIL.
C. 200 LB CONCENTRATED HORIZONTAL LOAD APPLIED ON A 1 FT SQUARE AREA AT ANY POINT IN THE SYSTEM.
THESE LOADS ARE NOT TO BE APPLIED SIMULTANEOUSLY, BUT EACH SHALL BE APPLIED TO PRODUCE MAXIMUM STRESSES IN EACH OF THE RESPECTIVE HANDRAIL COMPONENTS.

MECHANICAL: COORDINATE THE LOCATIONS OF ROOF, FLOOR AND WALL OPENINGS WITH THE TRADES REQUIRING THEM. OPENINGS LARGER THAN 24" X 24" SHALL BE COORDINATED WITH THE STRUCTURAL ENGINEER TO DETERMINE POTENTIAL IMPACTS ON THE FRAMING. ANY EQUIPMENT WEIGHING MORE THAN 300 LBS SHALL BE COORDINATED WITH THE STRUCTURAL ENGINEER TO DETERMINE POTENTIAL IMPACTS ON THE FRAMING.

SUBMITTALS

SHOP DRAWINGS: SUBMIT SHOP DRAWINGS FOR REVIEW AND ACCEPTANCE BY THE ARCHITECT AND ENGINEER-OF-RECORD PRIOR TO ANY FABRICATION OR CONSTRUCTION. DIMENSION AND QUANTITY VERIFICATION ARE THE CONTRACTOR'S RESPONSIBILITIES AND ARE NOT REVIEWED BY THE ENGINEER OF RECORD. THE CONTRACTOR SHALL REVIEW AND STAMP DRAWINGS PRIOR TO REVIEW BY THE ENGINEER OF RECORD. IF DEVIATIONS, DISCREPANCIES, OR CONFLICTS BETWEEN SHOP DRAWING SUBMITTALS AND THE CONTRACT DOCUMENTS ARE DISCOVERED, EITHER PRIOR TO OR AFTER THE ENGINEER PROCESSES THE SHOP DRAWING SUBMITTALS, THE DESIGN DRAWINGS AND SPECIFICATIONS SHALL CONTROL AND SHALL BE FOLLOWED.

DEVIATION FROM CONTRACT DOCUMENTS: CHANGES TO THE CONTRACT DOCUMENTS SHALL BE CLOUDED ON SHOP DRAWINGS OR REQUESTED IN WRITING. THE CONTRACTOR IS LIABLE FOR ANY DEVIATIONS UNLESS REVIEWED AND ACKNOWLEDGED BY THE ENGINEER OF RECORD IN WRITING.

DRAWING PREPARATION: COPIES OF STRUCTURAL DRAWINGS (PLANS AND/OR DETAILS) WILL NOT BE ACCEPTED BY HSG AS SHOP DRAWINGS. ALL SHOP DRAWINGS MUST BE REPRODUCED BY THE RESPECTIVE SUPPLIERS AND DETAILED AS NECESSARY.

SUBMITTAL REVIEW TIME: THE CONTRACTOR SHALL PROVIDE 10 WORKING DAYS IN HIS SCHEDULE FOR THE ENGINEER'S REVIEW OF EACH SUBMITTAL. THE 10 WORKING DAYS COMMENCE UPON THE ENGINEER'S RECEIPT OF A PROPERLY COMPLETED SUBMITTAL IN HIS OFFICE.

REQUIRED SUBMITTALS:
REQUIRED SUBMITTALS INCLUDE, BUT ARE NOT LIMITED TO, THE FOLLOWING:

BIDDER-DESIGNED SUBMITTALS
CONCRETE MIX DESIGNS
CONCRETE REINFORCEMENT
STRUCTURAL STEEL
PRE-MANUFACTURED WOOD JOISTS AND BEAMS

BIDDER-DESIGNED SUBMITTALS: CALCULATIONS AND SHOP DRAWINGS FOR ELEMENTS DESIGNED BY THE CONTRACTOR OR VENDORS SHALL BEAR THE SEAL AND SIGNATURE OF A PROFESSIONAL ENGINEER, RETAINED BY THE CONTRACTOR AND REGISTERED IN THE PROJECT STATE. SUBMIT THESE DOCUMENTS FOR REVIEW AND ACCEPTANCE BY THE ENGINEER AND OWNER'S REPRESENTATIVE PRIOR TO FABRICATION. INCLUDE ALL DESIGN LOAD AND REACTIONS ON OTHER STRUCTURES ON THE DRAWINGS. REVIEW BY THE STRUCTURAL ENGINEER OF RECORD SHALL NOT IMPLY ANY RESPONSIBILITY FOR THE ACTUAL DESIGN OF BIDDER-DESIGNED SYSTEMS OR COMPONENTS. BIDDER-DESIGNED SUBMITTALS INCLUDE THE FOLLOWING CONTRACTOR/VENDOR DESIGNED ELEMENTS.

PRE-ENGINEERED WOOD FLOOR TRUSSES
PRE-ENGINEERED WOOD ROOF TRUSSES 1

SUBMITTAL ACCEPTANCE: FOLLOWING ACCEPTANCE BY THE ARCHITECT AND ENGINEER AND PRIOR TO FABRICATION, ADDITIONAL TIME FOR REVIEW AND ACCEPTANCE OF SUBMITTAL BY THE BUILDING OFFICIAL IS REQUIRED AND SHALL BE IDENTIFIED AND ALLOWED FOR IN THE CONTRACTOR'S SCHEDULE.

SUBSTITUTIONS: SUBMIT SUBSTITUTION REQUESTS PER THE PROCEDURES IN THE SPECIFICATIONS WITH APPLICABLE ICC REPORTS TO THE ARCHITECT AND STRUCTURAL ENGINEER FOR REVIEW AND APPROVAL PRIOR TO DETAILING, FABRICATION AND ERECTION. ADDITIONAL ENGINEERING CALCULATIONS AND DETAILS, PROVIDED BY A STRUCTURAL ENGINEER LICENSED IN THE PROJECT STATE, MAY BE REQUIRED OF THE CONTRACTOR FOR SUBSTITUTIONS THAT ARE NOT SIMILAR TO THE SPECIFIED PRODUCTS AND CONFIGURATION.

CONCRETE

REFERENCE STANDARDS:

ACI	AMERICAN CONCRETE INSTITUTE, BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE, ACI 318
AWS	AMERICAN WELDING SOCIETY, STRUCTURAL WELDING CODE – REINFORCING STEEL, AWS D1.4
GENERAL:	CONCRETE SHALL BE MIXED, PROPORTIONED, CONVEYED, AND PLACED IN ACCORDANCE WITH IBC SECTION 1905 AND ACI 301.

SLAB-ON-GRADE: SEE TYPICAL SLAB ON GRADE DETAILS FOR ALL REQUIREMENTS FOR SLABS-ON-GRADE.

MIX DESIGNS: THE CONCRETE MIX TABLE SHOWN BELOW SHALL APPLY TO ALL CONCRETE MIX DESIGNS USED ON THIS PROJECT. MIX DESIGN SUBMITTALS SHALL BE IDENTIFIED FOR INTENDED STRUCTURAL USE AND SUBMITTED TO THE ARCHITECT AND STRUCTURAL ENGINEER FOR REVIEW TWO WEEKS PRIOR TO PLACING ANY CONCRETE.

MIX PROPORTIONING: ALL CONCRETE MIX DESIGNS SHALL BE PROPORTIONED IN ACCORDANCE WITH SECTION 4.2.3 OF ACI 301. SUBMIT MIX DESIGN FOR EACH CLASS OF CONCRETE. IF A STANDARD DEVIATION ANALYSIS IS USED, THE CONCRETE SHALL ACHIEVE AN AVERAGE STRENGTH IN ACCORDANCE WITH TABLE 4.2.3.3.(a) OF ACI 301. SUBMITTALS MADE WHICH DO NOT CONFORM TO ACI 301 SECTION 4.2.3 SHALL BE REJECTED.

CONCRETE MIX DESIGNS

CONCRETE USAGE	f'c (PSI) 28 DAY, MIN	SLUMP	ENTRAINED AIR (MAX)	W/C RATIO (MAX)	MAXIMUM AGGREGATE SIZE	FLY ASH CONTENT	EXPOSURE CLASS
FOOTINGS	3,000	6"	5% (+/- 1.5%)	0.50	1"	15-25%	F0
FOUNDATION WALLS	4,000	6"	6%	0.45	3/4"	15-25%	F1
EXTERIOR WALLS & RETAINING WALLS	4,000	6"	5% (+/- 1.5%)	0.45	1"	15-25%	F1
INTERIOR SLAB ON GRADE	4,000	4"	NONE	0.50	1"	15-25%	F0
EXTERIOR SLAB ON GRADE	4,500	4"	5% (+/- 1.5%)	0.45	1"	15-25%	F2

CONCRETE CONT

CEMENT CONTENT: SCHEDULE CEMENT CONTENT IS THE MINIMUM TOTAL CEMENTITIOUS MATERIALS CONTENT INCLUDING PORTLAND CEMENT AND FLY ASH.

FLY ASH: FLY ASH SHALL CONFORM TO ASTM C618, TYPE F. PERCENTAGE SCHEDULED IS BY WEIGHT OF TOTAL CEMENTITIOUS MATERIAL INCLUDING ASTM C150, C595, C845, AND C1157 CEMENT. DO NOT USE FLY ASH IF CONTENT WITHIN THE PERCENTAGES SHOWN CANNOT BE ACHIEVED.

ADMIXTURES: WATER-REDUCING ADMIXTURES CONFORMING TO ASTM C494 MAY BE INCORPORATED IN THE CONCRETE MIX DESIGNS AND BE USED IN STRICT ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. CALCIUM CHLORIDE OR OTHER WATER-SOLUBLE CHLORIDE ADMIXTURES SHALL NOT BE USED.

AIR CONTENT: AN AIR-ENTRAINING AGENT CONFORMING TO ASTM C260 SHALL BE USED IN ALL CONCRETE MIXES FOR WORK THAT IS EXPOSED TO WEATHER. WHERE ENTRAINED AIR IS NOT SCHEDULED, DO NOT ALLOW THE AIR CONTENT OF SLABS TO EXCEED 3% NATURALLY. THE AMOUNT OF ENTRAINED AIR SHALL BE MEASURED IN THE FIELD AT THE DISCHARGE END OF THE PLACING HOSE.

SLUMP: SCHEDULED SLUMP IS THE MAXIMUM ALLOWED AND SHALL BE ACHIEVED PRIOR TO ADDING ANY WATER REDUCING ADMIXTURES OR PLASTICIZERS.

LABORATORY TESTING: LABORATORY TESTING WILL BE REQUIRED IN ACCORDANCE WITH ASTM C31. PERFORM COMPRESSION TEST PER ASTM C39; AIR CONTENT TEST PER ASTM C138 (GRAVIMETRIC METHOD), ASTM C173 (VOLUMETRIC METHOD), OR ASTM C231 (PRESSURE METHOD); SLUMP TEST PER ASTM C143.

LABORATORY SHALL TEST THE NUMBER OF CYLINDERS SPECIFIED BELOW FOR EACH 100 CUBIC YARDS OR FRACTION THEREOF:
2 AT 7 DAYS FOR INFORMATION
2 AT 28 DAYS FOR ACCEPTANCE

SLEEVES: SLEEVES FOR PIPING OR DUCTS, EXCEPT AS DETAILED ON THE STRUCTURAL DRAWINGS, SHALL NOT BE PLACED IN JOISTS, BEAMS, GIRDERS, OR IN SLABS ADJACENT TO A COLUMN (WITHIN A DISTANCE EQUAL TO THE SLAB THICKNESS) UNLESS APPROVED BY THE ENGINEER. PLUMBING, MECHANICAL, & ELECTRICAL CONTRACTORS SHALL SUBMIT SIZES AND LOCATIONS OF ALL PENETRATIONS IN STRUCTURAL SLABS FOR THE STRUCTURAL ENGINEER'S APPROVAL BEFORE THE SLAB IS PLACED. ALL PIPE PENETRATIONS THROUGH SLABS SHALL BE SLEEVED IN CONFORMANCE WITH ACI 318, SECTIONS 20.7 & 26.8.

NON-STRUCTURAL EMBEDS: REFER TO DRAWINGS OF OTHER DISCIPLINES AND VENDOR DRAWINGS FOR EMBEDDED ITEMS AND RECESSES NOT SHOWN ON STRUCTURAL DRAWINGS.

CONDUIT: WHEN RUN IN SLABS, ELECTRICAL CONDUIT SHALL BE RUN AT MID-DEPTH OF THE SLAB AND CONDUIT SIZE SHALL NOT EXCEED 33 PERCENT OF THE SLAB DEPTH. NO CONDUIT SHALL BE PLACED IN SLABS WITH ACTUAL CONCRETE THICKNESS LESS THAN 3 INCHES, NOT INCLUDING METAL DECK DEPTH. THERE SHALL BE A MINIMUM OF 3 INCHES OF CLEAR SPACE BETWEEN CONDUITS. ALUMINUM CONDUIT IS PROHIBITED. ADDITIONAL REINFORCEMENT, #3 AT 12" OC, SHALL BE PLACED PERPENDICULAR TO THE CONDUIT ABOVE AND BELOW THE CONDUIT. THE ADDED REINFORCING SHALL EXTEND 1' - 0" BEYOND THE CONDUITS ON BOTH SIDES.

REINFORCING STEEL MATERIALS:

DEFORMED BARS	ASTM A615, GRADE 60
SMOOTH WELDED WIRE FABRIC (WWF)	ASTM A185 (Fy = 65,000 PSI)

REINFORCING STEEL DETAILING: REINFORCING STEEL SHALL BE DETAILED IN ACCORDANCE WITH ACI 315 – DETAILS AND DETAILING OF CONCRETE REINFORCEMENT.

REINFORCING STEEL PLACEMENT: ALL REINFORCEMENT SHALL BE HELD SECURELY IN POSITION WITH STANDARD ACCESSORIES IN CONFORMANCE WITH CRSI MANUAL OF STANDARD PRACTICE AND ACI 315 DURING CONCRETE PLACEMENT. REINFORCING PLACEMENT SHALL BE APPROVED BY THE ARCHITECT OR THEIR AUTHORIZED REPRESENTATIVE BEFORE CONCRETE IS PLACED. SETTING REBAR IN POURED CONCRETE IS NOT ACCEPTABLE.

REBAR SPLICES: LAP REINFORCING BARS AS NOTED ON THE DRAWINGS. WHERE SPLICE LENGTH IS NOT SHOWN, USE TYPE 'Ls' SPLICE PER DEVELOPMENT AND SPLICE LENGTH SCHEDULE. MECHANICAL OR WELDED BUTT SPLICES SHALL BE SUBJECT TO STRUCTURAL ENGINEER'S APPROVAL. MECHANICAL SPLICES, WHERE ALLOWED ON THE PLANS, SHALL DEVELOP 125% OF THE SPECIFIED YIELD STRENGTH OF THE SPLICED BARS IN BOTH TENSION AND COMPRESSION. LAP SPLICES OF BOTTOM BARS SHALL OCCUR AT A SUPPORT. LAP SPLICES OF TOP STEEL SHALL OCCUR AT MID SPAN.

FIELD BENDING: NO BARS PARTIALLY EMBEDDED IN HARDENED CONCRETE SHALL BE FIELD BENT UNLESS SPECIFICALLY DETAILED AS SUCH OR APPROVED BY THE STRUCTURAL ENGINEER.

CONCRETE PROTECTION: CONCRETE COVER FOR REINFORCING STEEL SHALL BE AS FOLLOWS, UNLESS NOTED OTHERWISE:

CAST AGAINST AND PERMANENTLY
EXPOSED TO EARTH..............................3"

EXPOSED TO EARTH OR WEATHER
#5 OR SMALLER................................1 1/2"
#6 OR LARGER..................................2"

NOT EXPOSED TO EARTH OR WEATHER OR IN CONTACT WITH GROUND
SLABS, WALLS, JOISTS
#11 OR SMALLER........................3/4"
ALL OTHER.................................1 1/2"
BEAMS, COLUMNS
PRIMARY REINFORCEMENT,
TIES, STIRRUPS, SPIRALS..............1 1/2"

MISC CONCRETE PADS: COORDINATE CONCRETE EQUIPMENT PAD AND HOUSE KEEPING PAD LOCATIONS AND DIMENSIONS WITH ARCH, MECHANICAL, ELECTRICAL, PLUMBING, AND OWNER REQUIREMENTS.

CONCRETE PLACEMENT: ALL CONCRETE SHALL BE VIBRATED.

MASONRY

REFERENCE STANDARDS:

ACI	AMERICAN CONCRETE INSTITUTE, BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES, TMS 402
ACI	AMERICAN CONCRETE INSTITUTE, SPECIFICATION FOR MASONRY STRUCTURES, TMS 602

FACE/HOLLOW UNITS: BRICK MASONRY UNITS SHALL COMPLY WITH ASTM C216 FOR FACING BRICK OR ASTM C652 FOR HOLLOW BRICK. SEE THE CONSTRUCTION DOCUMENTS FOR TYPES USED ON THE PROJECT. ASSEMBLIES SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF **f'm = 2,000 PSI.** BRICK UNITS SHALL CONFORM TO THE DIMENSIONS SHOWN ON THE PLANS. BRICK MASONRY WALLS SHALL BE REINFORCED PER THE CONSTRUCTION DOCUMENTS. WHERE DETAILS ARE NOT PROVIDED, REINFORCE ACCORDING TO THESE NOTES. STRUCTURAL DESIGN IS IN ACCORDANCE WITH IBC SECTION 2107 "ALLOWABLE STRESS DESIGN".

MORTAR: MORTAR FOR CONCRETE MASONRY UNITS SHALL BE TYPE M WHERE MASONRY IS IN CONTACT WITH EARTH OR TYPE S OTHERWISE. MORTAR FOR BRICK MASONRY SHALL BE TYPE N. ALL MORTARS SHALL CONFORM TO IBC SECTION 2103.2 AND SHALL BE MORTAR SHALL BE PROPORTIONED TO MEET THE REQUIREMENTS OF ASTM C270 TABLE 1 – PROPORTION SPECIFICATIONS OR TABLE 2 – PROPERTY SPECIFICATIONS. MORTAR SHALL BE TESTED IN THE FIELD IN ACCORDANCE WITH ASTM C780, APPENDIX A-4 MORTAR AGGREGATE RATIO TEST.

BED JOINT: BED JOINT THICKNESS SHALL NOT EXCEED 5/8".

BOND PATTERN: ALL MASONRY SHALL BE LAID IN RUNNING BOND, UNO.

MASONRY VENEER

WEIGHT: THE WEIGHT OF EXTERIOR MASONRY VENEER SHALL NOT EXCEED 40 PSF

ANCHOR SELECTION:

BACKUP	ALLOWABLE ANCHORS
WOOD	SHEET METAL ANCHORS, WIRE ANCHORS, OR ADJUSTABLE TWO-PIECE ANCHORS
STEEL (HEAVY AND LIGHT GAGE)	ADJUSTABLE TWO-PIECE ANCHORS
MASONRY	WIRE ANCHORS, ADJUSTABLE TWO-PIECE ANCHORS, JOINT REINFORCEMENT
CONCRETE	ADJUSTABLE TWO-PIECE ANCHORS

CORRUGATED ANCHORS MAY NOT BE USED

SHEET METAL ANCHORS: ANCHORS SHALL BE AT LEAST 7/8" WIDE AND HAVE A BASE METAL THICKNESS OF AT LEAST 0.06". ANCHORS SHALL EMBED IN THE MORTAR JOINT A MINIMUM OF 1 1/2" WITH AT LEAST 5/8" MORTAR COVER TO THE OUTSIDE FACE.

WIRE ANCHORS: ANCHORS SHALL BE AT LEAST WIRE SIZE W1.7 AND HAVE ENDS BENT TO FORM AN EXTENSION FROM THE BEND AT LEAST 2" LONG. ANCHORS SHALL BE WITHOUT DRIPS. ANCHORS SHALL EMBED IN THE MORTAR JOINT A MINIMUM OF 1 1/2" WITH AT LEAST 5/8" MORTAR COVER TO THE OUTSIDE FACE

JOINT REINFORCEMENT: LADDER-TYPE JOINT REINFORCEMENT IS PERMITTED. CROSS WIRES USED TO ANCHOR MASONRY VENEER SHALL BE AT LEAST WIRE SIZE W1.7 AND SHALL BE SPACED AT A MAXIMUM OF 16" ON CENTER. CROSS WIRES SHALL BE WELDED TO LONGITUDINAL WIRES, WHICH SHALL BE AT LEAST WIRE SIZE W1.7. EMBED LONGITUDINAL WIRES OF JOINT REINFORCEMENT IN THE MORTAR JOINT WITH AT LEAST 5/8' MORTAR COVER ON EACH SIDE.

ADJUSTABLE TWO-PIECE ANCHORS: SHEET-METAL AND WIRE COMPONENTS OF ADJUSTABLE ANCHORS SHALL CONFORM TO THE REQUIREMENTS LISTED ABOVE. MAXIMUM CLEARANCE BETWEEN CONNECTING PARTS OF THE TIE SHALL BE 1/16".

ANCHOR SPACING:

FOR ADJUSTABLE TWO-PIECE ANCHORS, ANCHORS OF WIRE SIZE W1.7, AND 22 GAGE CORRUGATED SHEET-METAL ANCHORS, PROVIDE AT LEAST ONE ANCHOR FOR EACH 2.00 SQUARE FEET OF VENEER AREA.

FOR ANCHORS OTHER THAN ADJUSTABLE TWO-PIECE ANCHORS, PROVIDE AT LEAST ONE ANCHOR FOR EACH 2.63 SQUARE FEET OF VENEER AREA

ALL ANCHORS SHALL BE SPACED AT A MAXIMUM OF 32" HORIZONTALLY AND 25" VERTICALLY.

OPENINGS: PROVIDE ADDITIONAL ANCHORS AROUND OPENINGS LARGER THAN 16" IN EITHER DIMENSION. SPACE ANCHORS AROUND PERIMETER OF OPENING AT A MAXIMUM OF 36" ON CENTER. PLACE ANCHORS WITHIN 12" OF OPENINGS.

WOOD BACKING: ATTACH EACH ANCHOR TO BACKING WITH A CORROSION-RESISTANT 8d COMMON NAIL, OR A FASTENER OF EQUIVALENT OR GREATER PULLOUT STRENGTH.

COLD-FORMED STEEL BACKING: ATTACHED EACH ANCHOR TO BACKING WITH CORROSION-RESISTANT SCREWS HAVING A MINIMUM NOMINAL SHANK DIAMETER OF 0.190 IN.

WEEP HOLES: SHALL BE PROVIDED AT THE BASE OF ALL NEW BRICK VENEER AT A MAXIMUM SPACING OF 2'-0" ON CENTER , TYPICAL
UNLESS NOTED OTHERWISE.

MECHANICAL AND CHEMICAL ANCHORS

ANCHOR CAPACITY: ANCHOR CAPACITY USED IN DESIGN SHALL BE BASED ON THE TECHNICAL DATA PUBLISHED BY MANUFACTURER OR SUCH OTHER METHOD AS APPROVED BY THE STRUCTURAL ENGINEER OF RECORD.

INSTALLATION: INSTALL ANCHORS PER THE MANUFACTURER INSTRUCTIONS AND IN ACCORDANCE WITH SPACING AND EDGE CLEARANCES INDICATED ON THE DRAWINGS.

POST-INSTALLED DRILLING: HOLES FOR INSTALLING REINFORCING BARS, BOLTS, THREADED RODS AND INSERTS SHALL BE DRILLED USING THE ICC APPROVED DRILLING METHOD FOR THE ANCHOR TO BE INSTALLED. NON-DESTRUCTIVELY LOCATE EXISTING REINFORCING PRIOR TO DRILLING. DO NOT CUT EXISTING REINFORCING.

THREADED RODS: ADHESIVE ANCHORS SHALL USE ASTM A36 THREAD RODS, UNO

INSTALLATION TRAINING: PRIOR TO COMMENCEMENT OF WORK, THE CONTRACTOR SHALL ARRANGE FOR A MANUFACTURER'S FIELD REPRESENTATIVE TO PROVIDE INSTALLATION TRAINING FOR ALL PRODUCTS TO BE USED. ONLY TRAINED INSTALLERS SHALL PERFORM POST INSTALLED ANCHOR INSTALLATION. A RECORD OF TRAINING SHALL BE KEPT ON SITE AND BE MADE AVAILABLE TO THE EOR AS REQUESTED.

MINIMUM CONCRETE AGE: ADHESIVE ANCHORS MUST BE INSTALLED IN CONCRETE AGED A MINIMUM OF 21 DAYS (ACI 318-14 17.1.2).

SPECIAL INSPECTION: PROVIDE SPECIAL INSPECTION FOR ALL MECHANICAL AND ADHESIVE ANCHORS PER THE APPLICABLE BUILDING CODE AND PER THE CURRENT ICC-ES REPORT (IBC 2018 TABLE 1705.3 NOTE B).

ALLOWABLE ANCHORS: THE FOLLOWING TABLE OF ANCHORS REPRESENT THE DEFAULT PRODUCTS USED IN DESIGN. WHERE SPECIFIC PRODUCTS ARE NOT OTHERWISE CALLED OUT IN THE STRUCTURAL DRAWINGS, THIS TABLE SHALL CONTROL.

BASE MATERIAL	ADHESIVE	EXPANSION ANCHOR	SCREW ANCHOR	PAF
HILTI				
CONCRETE	HY 200	KWIK BOLT TZ	KWIK HUS-EZ	X-C*
* USE X-CP FOR WOOD SILL PLATE TO CONCRETE				
SIMPSON STRONG-TIE				
CONCRETE	SET-XP	STRONG BOLT 2	TITEN HD	PDPA**
** USE PHN FOR WOOD SILL PLATE TO CONCRETE				
DEWALT FASTENERS				
CONCRETE	PURE 110+ AC200+GOLD	POWER-STUD+ SD1	SCREW-BOLT+	0.300" DIA HEAD DRIVE PIN***
*** 0.145" DIA SHANK				

NOTE: CLAY BRICK (URM) REFERS TO SOLID UNREINFORCED MASONRY WALLS CONSTRUCTED WITH CLAY BRICK.

WOOD

REFERENCE STANDARDS:

AF&PA	AMERICAN FOREST AND PAPER ASSOCIATION, NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION WITH 2018 SUPPLEMENT, NDS
AF&PA	AMERICAN FOREST AND PAPER ASSOCIATION, SPECIAL DESIGN PROVISIONS FOR WIND AND SEISMIC, SDPWS

MATERIAL PROPERTIES: SAWN LUMBER SHALL BE KILN-DRIED OR MC-19 AND GRADED AND MARKED IN CONFORMANCE WITH THE WEST COAST LUMBER INSPECTION BUREAU - STANDARD GRADING RULES FOR WEST COAST LUMBER NO 17, SOUTHERN PINE INSPECTION BUREAU - STANDARD GRADING RULES FOR SOUTHERN PINE LUMBER, OR SIMILAR APPROVED GRADING AGENCY'S LATEST EDITION STANDARD. ALL DIMENSIONAL WOOD FRAMING USED AS STRUCTURAL ELEMENTS SHALL CONFORM TO DOC PS20-10. FURNISH TO THE FOLLOWING MINIMUM STANDARDS:

WALL STUDS	SPF NO 1/NO 2
WALL PLATES	SYP NO 2
JOISTS (2x MEMBERS)	SYP NO 2
BEAMS AND STRINGERS	DF-LARCH NO 1
BEAMS AND STRINGERS	SYP NO 1
POSTS AND TIMBERS	DF-LARCH NO 1
POSTS AND TIMBERS	SYP NO 1

STRUCTURAL COMPOSITE LUMBER: STRUCTURAL COMPOSITE LUMBER (PSL, LVL, AND LSL) SHALL BE MANUFACTURED IN A PLANT UNDER A PROCESS APPROVED BY THE NATIONAL RESEARCH BOARD. EACH PIECE SHALL BEAR A STAMP OR STAMPS NOTING THE NAME AND PLANT NUMBER OF THE MANUFACTURER, THE GRADE, THE NATIONAL RESEARCH BOARD NUMBER, AND THE QUALITY CONTROL AGENCY. PARALLEL STRAND LUMBER SHALL BE MANUFACTURED IN ACCORDANCE WITH NER-481 GLUED WITH A WATERPROOF ADHESIVE MEETING THE REQUIREMENTS OF ASTM D2559 WITH ALL GRAIN PARALLEL WITH THE LENGTH OF THE MEMBER.

SCL TYPE	Fb (psi)	Fv (psi)	E (ksi)
PSL	2900	290	2000
LVL	2600	285	2000
LSL	2250	400	1500

LIGHT GAGE CONNECTORS: LIGHT GAUGE STEEL CONNECTOR CALLOUTS REFER TO PRODUCTS MANUFACTURED BY SIMPSON STRONG-TIE COMPANY. INSTALL CONNECTORS ACCORDING TO THE MANUFACTURER'S RECOMMENDATIONS AND THE DRAWINGS. CONNECTORS SHALL BE INSTALLED TO OBTAIN THE MAXIMUM LOAD VALUE LISTED IN THE MANUFACTURER'S CATALOG UNO. LIGHT GAUGE STEEL CONNECTORS SHALL HAVE A G90 GALVANIZED FINISH. LIGHT GAUGE STEEL CONNECTORS AND THEIR NAILS IN CONTACT WITH PRESSURE TREATED LUMBER SHALL HAVE A G185 GALVANIZED FINISH OR SHALL BE STAINLESS STEEL. FASTENERS LESS THAN ONE HALF INCH DIAMETER FOR THESE CONNECTORS SHALL BE HOT-DIP OR MECHANICALLY GALVANIZED. CONNECTORS SHALL HAVE FASTENERS OF THE SAME MATERIAL TYPE AND FINISH.

NAILING: NAILING SHALL CONFORM TO THESE DRAWINGS AND THE MINIMUM NAILING REQUIREMENTS AS SET FORTH IN THE BUILDING CODE. IN THE EVENT OF A DISCREPANCY BETWEEN THESE DRAWINGS AND THE BUILDING CODE, THE MORE STRINGENT REQUIREMENT SHALL GOVERN.

FASTENERS IN CONTACT WITH PRESSURE TREATMENT: NAILS, SCREWS, ANCHOR BOLTS, WASHERS, THRU BOLTS, EXPANSION ANCHORS, EPOXY ANCHOR RODS, AND CONCRETE OR MASONRY HEAVY DUTY SCREW ANCHORS IN CONTACT WITH PRESSURE TREATED LUMBER SHALL BE HOT-DIP (ASTM A153 CLASS C) OR MECHANICALLY GALVANIZED (ASTM B695 CLASS 55).

SHEATHING: WOOD STRUCTURAL PANELS SHALL BE APA RATED AND SHALL CONFORM TO PS 1/PS 2 PRODUCT STANDARD DOCUMENTS. PANELS PERMANENTLY EXPOSED TO WEATHER SHALL BE EXTERIOR GRADE. PANELS APPLIED TO WALLS, FLOORS, AND ROOFS SHALL BE EXPOSURE 1 GRADE. PROTECT SHEATHING FROM WATER DAMAGE WHILE STORED AT JOB SITE. SHEATHING SHALL BE AS FOLLOWS UNLESS NOTED OTHERWISE:

ROOF SHEATHING SHALL BE 19/32" WITH PANEL SPAN RATING 40/20.

FLOOR SHEATHING SHALL BE 23/32" TONGUE AND GROOVE STURDI-FLOOR SHEATHING WITH A FLOOR SPAN RATING OF 24" o.c.

WALL SHEATHING SHALL BE 7/16" WITH PANEL SPAN RATING 24/16.

TYPICAL FRAMING DETAILS: WOOD FRAMING DETAILS NOT SHOWN OTHERWISE SHALL BE CONSTRUCTED TO THE MINIMUM STANDARDS OF THE IBC. MINIMUM NAILING SHALL CONFORM TO FASTENING SCHEDULE, IBC TABLE 2304.9.1. ALL NAILS SHALL BE COMMON UNLESS NOTED OTHERWISE. PROVIDE WASHERS UNDER THE HEADS AND NUTS OF ALL BOLTS AND LAG SCREWS BEARING ON WOOD. NAILS USED ON THE EXTERIOR OR SUBJECT TO MOISTURE SHALL BE GALVANIZED OR STAINLESS STEEL.

TABLE I
COMMON NAIL SIZE TABLE

SIZE	DIAMETER	LENGTH
6d	0.113	2"
8d	0.131	2-1/2"
10d	0.148	3"
12d	0.148	3-1/4"
16d	0.162	3-1/2"
20d	0.192	4"

THE TABLE LISTS THE NAILS USED TO ENGINEER THE WOOD FRAMING FOR THE PROJECT. ALL NAILS USED SHALL COMPLY WITH THE DIAMETERS AND LENGTHS NOTED. SPECIAL NAILS WILL BE NOTED IN THE CONSTRUCTION DOCUMENTS.

BOLTS: WOOD CONNECTION BOLTS SHALL CONFORM TO ASTM A307. BOLTS SHALL BE PROVIDED WITH LOCK WASHERS UNDER NUTS OR SELF-LOCKING NUTS. BOLT HOLES SHALL BE STANDARD SIZE UNLESS NOTED OTHERWISE.

MOISTURE CONTENT: PROTECT WOOD FROM WEATHER SUCH THAT MOISTURE CONTENT AT THE TIME GYPSUM WALLBOARD IS APPLIED DOES NOT EXCEED 19%.

PRESSURE TREATMENT: WOOD MEMBERS DIRECTLY EXPOSED TO MOISTURE OR THAT ARE IN CONTACT WITH CONCRETE OR OTHER CEMENTITIOUS MATERIALS SHALL BE PRESSURE TREATED. PRESSURE TREAT LUMBER IN ACCORDANCE WITH THE MANUAL OF RECOMMENDED PRACTICE OF THE AMERICAN WOOD PRESERVERS ASSOCIATION (AWPA). CONTRACTOR'S ALTERNATE WHERE WOOD IS IN CONTACT WITH CONCRETE: PROVIDE TWO LAYERS OF 40# ASPHALT IMPREGNATED BUILDING PAPER BETWEEN UNTREATED LEDGERS, BLOCKING, ETC. AND CONCRETE OR MASONRY SURFACE.

OPENINGS: DETERMINE THE SIZE AND LOCATION OF OPENINGS, INCLUDING THOSE NOT SHOWN ON THE CONTRACT DRAWINGS, REQUIRED BY ALL TRADES. CONFIRM THAT THE TYPICAL AND SPECIAL FRAMING DETAILS SHOWN IN THE CONTRACT DRAWINGS COVER ALL OF THE CONDITIONS DETERMINED. REPORT DISCREPANCIES TO THE STRUCTURAL ENGINEER PRIOR TO CONSTRUCTION.

GENERAL FRAMING:

CONNECTORS: PROVIDE SIMPSON LUS FACE HANGERS OR B TOP FLANGE HANGERS BETWEEN JOISTS AND BEAMS UNLESS OTHERWISE NOTED. PROVIDE SIMPSON HUSC CONCEALED FLANGE HANGERS BETWEEN BEAMS AND COLUMNS OR BUILT-UP POSTS. PROVIDE SIMPSON AB# SERIES AT BASE AND PC# SERIES AT CAPS UNLESS OTHERWISE NOTED. PROVIDE WEB BLOCKING AT WOOD I JOISTS.

WALLS: STUDS SHALL HAVE FULL BEARING ON A 2" NOMINAL OR LARGER PLATE OR SILL WITH A WIDTH TO EQUAL OR EXCEEDING THE STUD WIDTH. TWO STUDS MINIMUM SHALL BE PROVIDED AT THE END OF ALL WALLS. PROVIDE ONE KING STUD AND ONE JACK STUD EACH SIDE OF EA. OPENING, MIN. SEE TYPICAL DETAILS FOR ADDITIONAL OPENING REQUIREMENTS. STUD WALLS SHALL HAVE THEIR LOWER WOOD PLATES ATTACHED TO WOOD FRAMING BELOW WITH 16d NAILS AT 12" OC, STAGGERED, 1 OR BOLTED TO CONCRETE WITH 1/2" DIAMETER ANCHOR BOLTS AT 4'-0" OC, MINIMUM TWO ANCHORS PER WALL SEGMENT, MAXIMUM 8" FROM EACH WALL END UNLESS INDICATED OTHERWISE. MEMBERS OF BUILT-UP POSTS SHALL BE NAILED TOGETHER PER THE TYPICAL DETAILS. PROVIDE CONTINUOUS SOLID BLOCKING AT MID-HEIGHT OF ALL STUD WALLS OVER 8'-0" IN HEIGHT (NOT REQUIREDI IF WALL IS SHEATHED).

WOOD COLUMNS & BUILT-UP POSTS: SOLID BLOCKING FOR WOOD COLUMNS AND POSTS SHALL BE PROVIDED THROUGH FLOORS TO SUPPORTS BELOW TO MATCH THE LOWER LEVEL POST REQUIREMENTS. SEE TYPICAL DETAIL FOR ATTACHMENT REQUIREMENTS.

EXTERIOR WALLS: EXTERIOR WALLS SHALL BE CONSTRUCTED AS SHEAR WALL TYPE SW6 UNLESS OTHERWISE NOTED. PROVIDE CONTINOUS BLOCKING AT ALL JOINTS AND NAIL SHEATHING TO BLOCKING AT 6" ON CENTER AT ALL EDGES PER THE SHEAR WALL SCHEDULE.

WOOD CONT

OVERDRIVEN SHEATHING NAILS: CARE SHALL BE TAKEN TO AVOID OVERDRIVING NAILS THROUGH ROOF, FLOOR, AND WALL SHEATHING. NAILS SHALL BE CONSIDERED OVERDRIVEN IF THE HEAD HAS BEEN DRIVEN MORE THAN 1/8" BELOW THE FACE OF THE SHEATHING. IF MORE THAN 25% OF THE NAILS IN A SINGLE SHEET ARE OVERDRIVEN, ADD ONE ADDITIONAL NAIL FOR EVERY TWO OVERDRIVEN NAILS WHERE 6" OR 4" NAIL SPACINGS ARE REQUIRED OR REMOVE AND REPLACE THE FULL SHEET WHERE NAIL SPACINGS LESS THAN 4" ARE REQUIRED..

COMBUSTION SOURCES: WOOD FRAMING SHALL BE A MINIMUM OF 2", BUT SHALL NOT BE LESS THAN THE DISTANCE SPECIFIED IN CHAPTER 21 OF THE BUILDING CODE AND THE INTERNATIONAL MECHANICAL CODE, FROM FLUES, CHIMNEYS, AND FIREPLACES, AND 6" AWAY FROM FLUE OPENINGS.

FLOORS AND ROOF:

JOISTS: TOENAIL JOISTS TO TOP PLATES OF BEARING WALLS WITH TWO 16d NAILS. ATTACH TIMBER JOISTS TO FLUSH HEADERS OR BEAMS WITH SIMPSON METAL JOIST HANGERS IN ACCORDANCE WITH NOTES ABOVE. NAIL BEAMS COMPRISED OF MULTIPLE JOISTS WITH 16d AT 12" OC STAGGERED.

BRIDGING: PROVIDE ONE ROW OF BRIDGING EVERY 8 FEET ALONG SPAN OF JOISTS

JOIST NOTCHES: JOISTS AS USED IN THIS SECTION REFERS TO 2X FRAMING MEMBERS USED AS ROOF RAFTERS OR FLOOR JOISTS. NOTCHES AT JOIST ENDS SHALL NOT EXCEED ONE FOURTH THE DEPTH OF THE JOIST. HOLES BORED FOR PIPE OR CABLE SHALL BE WITHIN THE MIDDLE THIRD OF THE JOIST DEPTH AND THE DIAMETER OF SUCH HOLES SHALL NOT EXCEED ONE THIRD THE DEPTH OF THE JOIST OR 1", WHICHEVER IS GREATER. ALL OTHER REQUIRED HOLES OR NOTCHES MUST BE APPROVED BY STRUCTURAL ENGINEER. THIS SECTION DOES NOT APPLY TO ENGINEERED WOOD MEMBERS: LS, LVL OR PSL. CONTACT ENGINEER PRIOR TO NOTCHING OR DRILLING IN ENGINEERED WOOD MEMBERS.

DOUBLE JOISTS: PROVIDE DOUBLE JOISTS UNDER ALL PARALLEL PARTITIONS THAT EXTEND OVER MORE THAN HALF THE JOIST LENGTH AND AROUND ALL OPENINGS IN FLOORS OR ROOFS. PROVIDE BRIDGING AT 8'-0" OC AND SOLID BLOCKING AT ALL BEARING POINTS.

SHEATHING LAYOUT: LAY ROOF AND FLOOR SHEATHING WITH GRAIN PERPENDICULAR TO SUPPORTS. NAIL ROOF SHEATHING TO SUPPORTS WITH 8d NAILS AT 6" OC AT FRAMED PANEL EDGES AND AT 12" OC TO INTERMEDIATE SUPPORTS. GLUE AND SCREW FLOOR SHEATHING TO SUPPORTS WITH 8 X 2 1/2" LONG WOOD SCREWS AT 6" OC AT FRAMED PANEL EDGES AND AT 12" OC TO INTERMEDIATE SUPPORTS. PROVIDE APPROVED EDGE CLIPS CENTERED BETWEEN FRAMING MEMBERS AT UNBLOCKED ROOF SHEATHING EDGES. FLOOR SHEATHING SHALL HAVE APPROVED TONGUE-AND-GROOVE EDGES. SEE THE DRAWINGS FOR THE LOCATION OF BLOCKED DIAPHRAGMS, IF ANY. WHERE BLOCKED DIAPHRAGMS ARE REQUIRED, PROVIDE FLAT 2x BLOCKING AT UNFRAMED PANEL EDGES AND NAIL WITH EDGE NAILING SPECIFIED. TOENAIL BLOCKING TO SUPPORTS WITH (2)-10d AT EACH END.

HURRICANE CLIPS: PROVIDE SIMPSON H2.5A HURRICANE CLIPS FROM ROOF RAFTERS AND CANTILEVERED RAFTERS TO THE WALL TOP PLATES OR SUPPORTING BEAMS UNLESS ANOTHER HURRICANE CLIP IS NOTED. PROVIDE WEB BLOCKING AT WOOD I JOISTS RECEIVING HURRICANE CLIPS.

VENTING: THE STRUCTURAL DRAWINGS DO NOT SHOW VENTING DETAILS AT ROOFS AND OTHER ENCLOSED SPACES. SEE ARCH FOR VENTING REQUIREMENTS, IF ANY.

FLOOR LEVEL SHRINKAGE: ALL ELECTRICAL, MECHANICAL, PLUMBING AND ARCHITECTURAL SYSTEMS (INCLUDING VERTICAL TRANSPORTATION SYSTEMS, EXTERIOR FINISHES AND CLADDING SYSTEMS) SHALL BE DESIGNED FOR SHRINKAGE OF 1/2" PER FLOOR ABOVE THE UPPERMOST CONCRETE FLOOR LEVEL. THE TOTAL ESTIMATED SHRINKAGE FOR VARIOUS HEIGHT BUILDINGS ARE AS FOLLOWS:

NO. OF STORIES	TOTAL ESTIMATED SHRINKAGE
1	1/2"
2	1"
3	1-1/2"

PROPORTIONAL SHRINKAGE: PARTIAL HEIGHT SYSTEMS SHALL BE DESIGNED FOR PROPORTIONAL SHRINKAGES. LARGER THAN NORMAL FLOOR-TO-FLOOR HEIGHTS, MOISTURE CONTENT OF FRAMING LUMBER WHEN INSTALLED, TYPE OF FRAMING AND OTHER FACTORS MAY INFLUENCE THE ACTUAL SHRINKAGE.

PREFABRICATED PRE-ENGINEERED WOOD TRUSSES

TRUSS DESIGN: PREFABRICATED METAL PLATE CONNECTED WOOD TRUSS SYSTEM SHALL BE DESIGNED BY THE MANUFACTURER IN ACCORDANCE WITH THE NATIONAL DESIGN STANDARD FOR METAL PLATE CONNECTED WOOD TRUSS CONSTRUCTION, ANSI/TPI 1, AND THE BUILDING CODE FOR THE SPANS AND CONDITIONS SHOWN IN THE CONSTRUCTION DOCUMENTS. THE DESIGN LOADING FOR ROOF TRUSS SYSTEM SHALL BE:

ROOF TRUSSES

TOP CHORD SNOW LOAD	SEE THE GENERAL DESIGN LOADS
TOP CHORD LIVE LOAD	20 PSF
TOP CHORD DEAD LOAD	10 PSF
BOTTOM CHORD LIVE LOAD	10 PSF INACCESSIBLE ATTIC W/O STORAGE
BOTTOM CHORD DEAD LOAD	5 PSF
WIND UPLIFT (TOP CHORD)	15 PSF
MAXIMUM LIVE LOAD DEFLECTION	L/240
MAXIMUM TOTAL LOAD DEFLECTION	L/180

FLOOR TRUSSES

TOP CHORD LIVE LOAD	40 PSF
TOP CHORD DEAD LOAD	10 PSF
BOTTOM CHORD DEAD LOAD	10 PSF 1
MAXIMUM LIVE LOAD DEFLECTION	L/480
MAXIMUM TOTAL LOAD DEFLECTION	L/360

TRUSS GEOMETRY: ROOF TRUSS TOP CHORDS SHALL BE SLOPED TO FORM THE ROOF SLOPE, UNO. FLOOR TRUSSES SHALL HAVE FLAT TOP AND BOTTOM CHORDS, UNO. ALL TRUSSES ARE ASSUMED TO BE SIMPLE SPAN, UNO. COORDINATE GEOMETRY OF WOOD TRUSS MEMBERS WITH MECHANICAL, ELECTRICAL, SPRINKLER, ARCHITECTURAL AND BUILDING CODE REQUIREMENTS. ALL AREAS WHERE TRUSSES ARE NOT SPECIFICALLY NOTED SHALL BE STICK FRAMED. VALLEY AND RIDGE SETS OF TRUSSES WILL NOT BE ALLOWED UNLESS WRITTEN APPROVAL HAS BEEN RECEIVED FROM THE ARCHITECT PRIOR TO THE SUBMITTAL OF SHOP DRAWINGS.

DEFERRED SUBMITTAL: THE PREFABRICATED METAL PLATE CONNECTED WOOD TRUSS SYSTEM IS A DEFERRED SUBMITTAL. PRODUCTS SHALL BE DESIGNED BY THE MANUFACTURER FOR THE SPANS AND CONDITIONS SHOWN IN THE CONSTRUCTION DOCUMENTS AND SHALL BE FURNISHED AND INSTALLED IN CONFORMANCE WITH THE MANUFACTURER'S PUBLISHED SPECIFICATIONS. PROVIDE FOR SHAPES, BEARING POINTS, INTERSECTIONS, HIPS, VALLEYS, ETC, SHOWN ON THE DRAWINGS. EXACT COMPOSITION OF SPECIAL HIP, VALLEY, AND INTERSECTION AREAS (USE OF GIRDER TRUSSES, JACK TRUSSES, STEP-DOWN TRUSSES, ETC) SHALL BE DETERMINED BY THE MANUFACTURER UNLESS SPECIFICALLY INDICATED IN THE CONSTRUCTION DOCUMENTS. PROVIDE TRUSS-TO-TRUSS CONNECTION DETAILS AND REQUIRED CONNECTION MATERIALS. SUBMIT SHOP DRAWINGS AND DESIGN CALCULATIONS TO THE ARCHITECT AND STRUCTURAL ENGINEER FOR REVIEW PRIOR TO FABRICATION.

TRUSS CALCULATIONS: THE TRUSS SYSTEM CALCULATION PACKAGE SHALL BE DESIGNED UNDER THE DIRECT SUPERVISION OF A PROFESSIONAL ENGINEER LICENSED IN THE PROJECT STATE. THE TRUSS SYSTEM ENGINEER SHALL ASSUME ALL RESPONSIBILITY FOR THE WORK OF ALL SUBORDINATES INVOLVED IN THE PREPARATION OF THE TRUSS DESIGN DRAWINGS AND PLACEMENT PLANS.

FRAMING LOAD PATH: THE WOOD TRUSS SYSTEM IS A PRE-ENGINEERED SYSTEM DESIGNED BY SPECIALTY ENGINEERS TO THE CRITERIA IN THE CONSTRUCTION DOCUMENTS. THE WOOD TRUSS SYSTEM SHALL BE PROVIDED TO COMPLETE THE ROOF FRAMING FROM THE ROOF SHEATHING TO THE SUPPORTING MEMBERS BELOW. TRUSSES SHALL NOT PLACE HORIZONTAL REACTIONS ON SUPPORTING MEMBERS.

OVER FRAMING: WHERE OVER FRAMING IS USED TO COMPLETE THE ROOF SYSTEM, OVER FRAMING MEMBERS AND THEIR CONNECTIONS SHALL BE UNDER THE DIRECTION OF THE TRUSS SYSTEM DESIGNER IN ORDER TO PROVIDE A LOADING CONDITION CONSISTENT WITH THE MODELING OF THE TRUSSES. THE TRUSS SYSTEM DESIGNER SHALL INCLUDE OVER FRAMING DETAILS WITH THE PRE-ENGINEERED TRUSS PACKAGE.

TRUSS LAYOUT: TRUSS LOCATIONS ARE SCHEMATICALLY SHOWN ON THE PLANS. IT IS NOT THE INTENT OF THE STRUCTURAL PLANS TO GRAPHICALLY LOCATE ALL FRAMING MEMBERS EXCEPT FOR WHERE CALLED OUT. THE CONTRACTOR IS RESPONSIBLE FOR CHECKING SHOP DRAWINGS FOR MEMBER LAYOUT, CONSTRUCTABILITY AND QUANTITY TAKEOFFS.

TRUSS PROFILES: TRUSS PROFILES, CHORD MEMBER SIZES, AND WEB MEMBER SIZES SHOWN IN THESE DRAWINGS ARE SCHEMATIC ONLY. COORDINATE ROUTING OF DUCTS AND OTHER EQUIPMENT WITH TRUSS SHOP DRAWINGS AND TRUSS MANUFACTURER.

TRUSS BEARING: TRUSS BEARING LOCATIONS ARE INDICATED IN THE CONSTRUCTION DOCUMENTS. THE TRUSS MANUFACTURER SHALL VERIFY TRUSS BEARING CAPACITY ON SOUTHERN PINE PLATES. ALL TRUSS TO TRUSS CONNECTIONS ARE TO BE DESIGNED AND CALLED OUT BY THE TRUSS MANUFACTURER. TRUSSES SHALL BE FASTENED TO SUPPORTING MEMBERS WITH NAILS AND HOLD DOWN CLIPS ACCORDING TO THE BUILDING CODE AND THE ROOF TRUSS FASTENER SCHEDULE IN THESE DRAWINGS.

WHERE LIGHT GAGE STUD WALLS ARE USED TO SUPPORT TRUSSES, TRUSSES SHALL BEAR DIRECTLY OVER A WALL STUD AND SHALL NOT BE SUPPORTED SOLELY BY THE TOP TRACK. WHERE STUD AND TRUSS SPACING CONFLICT DO NOT MATCH, ADDITIONAL STUDS SHALL BE INSTALLED AT TRUSS BEARING POINTS.

TRUSS ALIGNMENT: TYPICALLY ALIGN ROOF TRUSSES OVER/WITH SHEAR WALLS. VERIFY WITH CONTRACTOR THE CHOICE TO USE ALTERNATE SHEAR TRANSFER DETAILS WHERE TRUSSES NEED NOT BE ALIGNED. WHERE TRUSSES ALIGN OVER SHEAR WALLS, THE TRUSS SYSTEM DESIGNER SHALL PROVIDE A TRUSS TO CARRY THE DRAG LOAD NOTED ON THE PLAN FROM THE ROOF SHEATHING TO THE SHEAR WALL BELOW OR A MINIMUM OF 150 PLF. DRAG TRUSSES SHALL BE MODELED ACCORDING TO THE ACTUAL SUPPORT CONDITIONS AS SHOWN ON THE PLAN. HORIZONTAL REACTIONS SHALL BE RESISTED ONLY BY LATERAL ELEMENTS SUCH AS SHEARWALLS ACCORDING TO THE DETAILS AND ACTUAL FRAMING CONDITIONS.

TRUSS BRACING: ALL TEMPORARY AND PERMANENT BRACING REQUIRED FOR THE STABILITY OF THE TRUSS ELEMENTS UNDER GRAVITY LOADS, IN-PLANE DRAG LOADS, AND UPLIFT LOADS SHALL BE DESIGNED BY THE TRUSS SYSTEM DESIGNER. WHERE THE TOP CHORD IS NOT DIRECTLY ATTACHED TO THE ROOF SHEATHING, THE TRUSS SYSTEM DESIGNER SHALL DESIGN AND DIRECT THE PLACEMENT OF ALL REQUIRED TOP CHORD BRACING INCLUDING THEIR CONNECTIONS. ANY BRACING LOADS TRANSFERRED TO THE MAIN BUILDING SYSTEM WALL, ETC. SHALL BE IDENTIFIED AND SUBMITTED TO THE ENGINEER OF RECORD FOR REVIEW AND APPROVAL.

SHOP DRAWINGS: SHOP DRAWINGS MAY CONTAIN THE MANUFACTURER'S ENGINEERING RESPONSIBILITY LIMITATIONS. HOWEVER, THEY SHALL MAKE NO STATEMENT AS TO THE ENGINEER OF RECORD'S RESPONSIBILITIES. SHOP DRAWINGS SUBMITTALS SHALL INCLUDE THE FOLLOWING:
1. KEY PLAN SHOWING EACH TRUSS LOCATION.
2. INDIVIDUAL TRUSS DESIGNS STAMPED BY A PROFESSIONAL ENGINEER LICENSED IN THE PROJECT STATE.
3. PERMANENT BRACING REQUIREMENTS INCLUDING PLACEMENT AND CONNECTION DETAILS STAMPED BY A PROFESSIONAL ENGINEER LICENSED IN THE PROJECT STATE.
4. TRUSS DRAWINGS SHALL SPECIFY ALL TRUSS-TO-TRUSS CONNECTIONS/HARDWARE TO MEET THE REQUIREMENTS OF THE PLAN.
5. OVERFRAMING CONNECTIONS AND PLACEMENT DETAILS STAMPED BY A PROFESSIONAL ENGINEER LICENSED IN THE PROJECT STATE.

OPENING COORDINATION: COORDINATE THE SIZE AND LOCATION OF ALL OPENINGS AND ROOF TOP EQUIPMENT WITH THE TRADES REQUIRING THEM AND THE WOOD TRUSS SYSTEM MANUFACTURER.

STRUCTURAL GENERAL NOTES

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MHM

McCarty Holsaple McCarty, Inc.
550 W. Main St., Suite 300
Knoxville, TN 37902
t 865.544.2000
www.mhminc.com

Consultants:

CIVIL ENGINEER:
HUDDLESTON-STEELE ENGINEERING INC.
2112 N.W. BROAD ST.
MURFREESBORO, TN 37129
615.893.4084

LANDSCAPE ARCHITECT:
RAGAN SMITH
100 E. VINE ST., STE 200
MURFREESBORO, TN 37130
615.546.6050

STRUCTURAL ENGINEER:
HAINES STRUCTURAL GROUP
800 S. GAY ST., STE 1750
KNOXVILLE TN, 37929
865.329.9920

MECHANICAL & PLUMBING ENGINEER:
FACILITY SYSTEMS CONSULTANTS
713 S. CENTRAL ST., STE 101
KNOXVILLE TN, 37902
865.246.0164

ELECTRICAL ENGINEER:
FACILITY SYSTEMS CONSULTANTS
713 S. CENTRAL ST., STE 101
KNOXVILLE TN, 37902
865.246.0164

Project Information:

21026

MHA Parkside Housing
520 EAST CASTLE STREET,
MURFREESBORO, TN 37130

Seal:

Consultant:

HAINES STRUCTURAL GROUP
800 S. GAY STREET, STE. 1750 KNOXVILLE, TN 37929
(865) 329-9920 | WWW.HAINES-SG.COM
project no. 21187

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PM	GRG
PA	G. TAYLOR
Drawn By:	CWR
Checked By:	GRG

Sheet Description:

S-002

STRUCTURAL GENERAL NOTES

STEEL

REFERENCE STANDARDS:

AISC AMERICAN INSTITUTE OF STEEL CONSTRUCTION, SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS, AISC 360

AWS AMERICAN WELDING SOCIETY, STRUCTURAL WELDING CODE – STEEL, AWS D1.1
AND STRUCTURAL WELDING CODE – SHEET STEEL, AWS D1.3

RCSC RESEARCH COUNCIL ON STRUCTURAL CONNECTIONS, SPECIFICATION FOR STRUCTURAL JOINTS USING HIGH STRENGTH BOLTS

STRUCTURAL STEEL MATERIALS:

COLUMN BASE PLATES	ASTM A572, GRADE 50
HOLLOW STRUCTURAL SECTIONS (HSS)	
RECTANGULAR & SQUARE	ASTM A500, GRADE C, Fy = 50 KSI
STEEL PIPE	ASTM A53, GRADE B, Fy = 35 KSI
OTHER STEEL SHAPES AND PLATES	ASTM A36, Fy = 36 KSI
STRUCTURAL BOLTS	ASTM A325 OR A490
NUTS	ASTM A563, GRADE DH
WASHERS	ASTM F436, TYPE 1
COLUMN ANCHOR RODS	ASTM F1554, GRADE 36
WOOD CONNECTION BOLTS	ASTM A307
THREADED RODS	ASTM A36
WELDING ELECTRODES	E70XX
WELDED THREADED STUDS (WTS)	ASTM A108, Fy = 50 KSI

DESIGN METHOD: ALL STRUCTURAL STEEL DESIGN SHALL CONFORM TO THE FIFTEENTH EDITION OF THE AISC STEEL CONSTRUCTION MANUAL LOAD AND RESISTANCE FACTOR DESIGN AND THE SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS.

MISC STEEL: THE CONTRACTOR SHALL BE RESPONSIBLE FOR ERECTION AIDS AND JOINT PREPARATIONS THAT INCLUDE, BUT ARE NOT LIMITED TO, ERECTION ANGLES, LIFT HOLES AND OTHER AIDS, WELDING PROCEDURES, REQUIRED ROOT OPENINGS, ROOT FACE DIMENSIONS, GROOVE ANGLES, BACKING BARS, COPES, SURFACE ROUGHNESS VALUES, AND TAPERS OF UNEQUAL PARTS.

GALVANIZING: STRUCTURAL STEEL AND CONNECTIONS EXPOSED TO WEATHER SHALL BE HOT-DIPPED GALVANIZED AFTER FABRICATION IN COMPLIANCE WITH ASTM A123. GALVANIZE BOLTS AND SIMILAR THREADED FASTENERS EXPOSED TO WEATHER IN ACCORDANCE WITH ASTM A153, CLASS C AND D, AS APPLICABLE. ALL FIELD WELDS EXPOSED TO WEATHER SHALL BE COATED WITH BRUSH APPLIED ZINC-RICH PAINT COMPLYING WITH ASTM A780 (GALVACON OR EQUIVALENT).

PAINTING: STRUCTURAL STEEL SHALL BE PRIMED AND PAINTED, IF NOTED ON THE ARCHITECTURAL DRAWINGS OR SPECIFICATIONS. PRIMER SHALL BE THE FABRICATOR'S STANDARD LEAD AND CHROMATE FREE, NON-ASPHALTIC, RUST-INHIBITING PRIMER. STEEL ANCHORS, TIES AND OTHER MEMBERS EMBEDDED IN CONCRETE OR MASONRY SHALL BE LEFT UNPAINTED. STEEL ENCASED WITH CEMENTITIOUS FIREPROOFING SHALL NOT BE PAINTED.

HIGH-STRENGTH BOLTS: HIGH-STRENGTH BOLTS SHALL BE INSTALLED, TIGHTENED AND INSPECTED IN ACCORDANCE WITH THE AISC SPECIFICATION FOR STRUCTURAL JOINTS USING HIGH-STRENGTH BOLTS. BOLT HOLES SHALL BE STANDARD SIZE UNLESS NOTED OTHERWISE.

WASHERS: HARDENED WASHERS SHALL BE INSTALLED OVER SHORT SLOTTED OR OVERSIZE HOLES OCCURRING IN THE OUTER PLY OF A CONNECTION. A PLATE WASHER AT LEAST 5/16 INCH THICK WITH STANDARD HOLES SHALL BE INSTALLED OVER LONG SLOTTED HOLES OCCURRING IN AN OUTER PLY OF A CONNECTION.

MINIMUM CONNECTIONS: ALL BOLTED CONNECTIONS SHALL BE MADE WITH A MINIMUM OF TWO 3/4 INCH DIAMETER ASTM A325 BOLTS IN SINGLE SHEAR BEARING TYPE CONNECTIONS UNLESS NOTED OTHERWISE. IN NO CASE SHALL THE LENGTH OF A CONNECTION BE LESS THAN ONE HALF OF THE TEE DIMENSION OF THE BEAM WEB. ALL BOLTS IN BEARING TYPE CONNECTIONS SHALL BE TIGHTENED TO AT LEAST THE SNUG TIGHT CONDITION AS DEFINED BY AISC. BOLTS IN CONNECTIONS THAT ARE DESIGNATED AS SLIP CRITICAL, FULLY TENSIONED, OR SUBJECT TO TENSION LOADS, SHALL BE FULLY TENSIONED USING LOAD INDICATING WASHERS OR TENSION CONTROL BOLTS.

ANCHOR RODS: PROVIDE HEAVY HEX NUTS AND WASHERS COMPLYING WITH THE REQUIREMENTS OF TABLE 14-2 IN THE AISC STEEL CONSTRUCTION MANUAL UNLESS THICKER AND/OR LARGER WASHERS ARE NOTED ON THE DRAWINGS. HOLE DIAMETER IN WASHERS SHALL BE THE ANCHOR ROD DIAMETER + 1/16 INCH. IN LIEU OF HEADED RODS, THREADED RODS WITH A HEAVY HEX NUT FULLY ENGAGED AND TACK WELDED TO THE EMBEDDED END MAY BE USED.

COLUMN ANCHOR BOLT HOLES SHALL BE OVERSIZED IN ACCORDANCE WITH THE FOLLOWING:
- ROD DIAMETERS 3/4 INCH TO 1 INCH - 5/16 INCH OVERSIZE
- ROD DIAMETERS 1 INCH TO 2 INCH - 1/2 INCH OVERSIZE
- ROD DIAMETERS OVER 2 INCH - 1 INCH OVERSIZE

COLUMN BRACING: BASE PLATE CONNECTIONS ARE NOT DESIGNED TO PROVIDE STABILITY OF COLUMNS DURING ERECTION. COLUMNS SHALL BE TEMPORARILY BRACED BY THE ERECTOR PRIOR TO RELEASE OF THE COLUMN FROM THE HOISTING EQUIPMENT.

GROUT: GROUT USED UNDER COLUMN BASE PLATES SHALL BE CEMENT BASED, NON-SHRINK, NON-METALLIC GROUT. THE GROUT SHALL EXHIBIT NO SHRINKAGE IN ACCORDANCE WITH ASTM C827 AND SHALL HAVE A MINIMUM 28-DAY COMPRESSIVE STRENGTH OF 5000 PSI WHEN TESTED IN ACCORDANCE WITH ASTM C109.

A307 BOLTS: PROVIDE WITH LOCK WASHERS UNDER NUTS OR SELF-LOCKING NUTS. BOLT HOLES SHALL BE STANDARD SIZE UNLESS NOTED OTHERWISE.

WELDING: WELDING SHALL BE IN CONFORMANCE WITH AISC AND AWS STANDARDS AND SHALL BE PERFORMED BY AWS CERTIFIED WELDERS USING ASTM E70 SERIES ELECTRODES FOR SHOP WELDING A36 STEEL, AND E70 SERIES LOW HYDROGEN ELECTRODES FOR ALL WELDING OF HIGH STRENGTH STEELS AND FOR ALL FIELD WELDING.

ONLY PREQUALIFIED WELDS (AS DEFINED BY AWS) SHALL BE USED. WELDS SHOWN ON THE DRAWINGS ARE THE MINIMUM SIZE. INCREASE WELD SIZE TO AWS MINIMUM SIZES BASED ON PLATE THICKNESS. MINIMUM WELD SIZE SHALL BE **3/16 INCH**. SHOP DRAWINGS SHALL SHOW ALL WELDING WITH AWS A2.4 SYMBOLS.

WHEN WELDS ARE NOT CALLED-OUT ON DRAWINGS, THEY ARE MINIMUM SIZE CONTINUOUS FILLET WELDS IN ACCORDANCE WITH AWS D1.1. FILLET WELDS NOT SPECIFIED AS TO LENGTH SHALL BE CONTINUOUS.

PROVIDE FILLET WELDS AT ALL CONTACT JOINTS BETWEEN STEEL MEMBERS SUFFICIENT TO DEVELOP THE ALLOWABLE TENSILE STRENGTH OF THE SMALLER MEMBER AT THE JOINT.

FOR ALL COMPLETE-JOINT-PENETRATION WELDS, PROVIDE A 1/8" ROOT OPENING BETWEEN ROOT FACE AND PART TO BE CONNECTED. FIELD FIT-UP TOLERANCE OF ± 1/16" IS ACCEPTABLE.

ATTACHMENT TO WOOD: STEEL COLUMNS AND POSTS LOCATED WITHIN WOOD STUD WALLS SHALL BE FASTENED TO THE WALL(S) WITH WELDED THREADED STUDS. SEE TYPICAL DETAIL FOR STUD SIZE AND SPACING.

OPENINGS: COORDINATE ALL OPENINGS AND DIMENSIONS WITH ARCHITECTURAL AND MECHANICAL DRAWINGS. FIELD CONFIRM ALL DIMENSIONS.

BELOW GRADE STEEL: PROTECT ALL STEEL BELOW GRADE BY ENCASING IN CONCRETE OR PAINTING WITH (2) 10 MIL COATS OF BITUMINOUS MASTIC COATING.

FABRICATION & ERECTION: FABRICATOR AND ERECTION SHALL BE APPROVED BY THE ARCHITECT. FABRICATOR AND ERECTOR SHALL HAVE BEEN IN BUSINESS FOR PERIOD OF THREE CONSECUTIVE YEARS AND SHALL PROVIDE PROOF THAT THEY HAVE COMPLETED A MINIMUM OF FIVE JOBS OF SIZE AND COMPLEXITY EQUAL TO THAT INDICATED ON THESE DRAWINGS.

NON-STRUCTURAL COMPONENT ATTACHMENT: THE CONTRACTOR IS RESPONSIBLE FOR THE PROVISION OF A METHOD TO TRANSFER GRAVITY AND LATERAL LOADS FROM NON-STRUCTURAL ITEMS OCCURRING BETWEEN STRUCTURAL FRAMING TO ADJACENT FRAMING MEMBERS. IF STRUCTURAL FRAMING CONSISTS OF JOISTS OR JOIST GIRDERS, SPECIAL PROVISIONS APPLY. SEE STEEL JOIST AND JOIST GIRDER NOTES FOR FURTHER INFORMATION.

STEEL STAIRS: STRUCTURAL STEEL STAIR SHOP DRAWINGS SHALL BEAR THE SEAL AND SIGNATURE OF AN ENGINEER REGISTERED IN THE PROJECT STATE. REFER TO ARCHITECTURAL DRAWINGS FOR STAIR CONFIGURATION AND STAIR DETAILS. DESIGN OF FRAMING MEMBERS AND CONNECTION TO STRUCTURE SHALL BE THE RESPONSIBILITY OF THE FABRICATOR. THE FABRICATOR SHALL SUBMIT CONNECTION DESIGN CALCULATIONS SIGNED AND SEALED BY AN ENGINEER REGISTERED IN THE PROJECT STATE FOR REVIEW BY THE ENGINEER OF RECORD THAT INDICATE THE STAIR DESIGN IS IN ACCORDANCE WITH ALL APPLICABLE CODES, SPECIFICATIONS, AND THESE DRAWINGS.

STRUCTURAL GENERAL NOTES

STATEMENT OF SPECIAL INSPECTIONS:

1. SPECIAL INSPECTIONS AND STRUCTURAL TESTING SHALL BE PROVIDED BY AN INDEPENDENT AGENCY EMPLOYED BY THE OWNER FOR THE ITEMS IDENTIFIED IN THIS SECTION AND IN OTHER AREAS OF THE APPROVED CONSTRUCTION PLANS AND SPECIFICATIONS, UNLESS WAIVED BY THE BUILDING OFFICIAL (SEE IBC CHAPTER 17).
2. THE INSPECTION AND TESTING AGENT(S) SHALL BE ENGAGED BY THE OWNER'S REPRESENTATIVE OR THE SPECIAL INSPECTOR, AND NOT BY THE CONTRACTOR OR SUBCONTRACTOR WHOSE WORK IS TO BE INSPECTED OR TESTED. ANY CONFLICT OF INTEREST MUST BE DISCLOSED PRIOR TO COMMENCING WORK.
3. THE SPECIAL INSPECTOR SHALL BE A QUALIFIED PERSON WHO SHALL DEMONSTRATE COMPETENCE, TO THE SATISFACTION OF THE BUILDING OFFICIAL, FOR INSPECTION OF THE PARTICULAR TYPE OF CONSTRUCTION OR OPERATION REQUIRING INSPECTION.
4. SPECIAL INSPECTION FREQUENCY:
   A. PERIODIC - THE PART-TIME OR INTERMITTENT OBSERVATION BY THE SPECIAL INSPECTION OF WORK BEING PERFORMED AS DETERMINED BY THE SPECIAL INSPECTOR TO ADEQUATELY DEMONSTRATE INTENT OF THE CONSTRUCTION DRAWINGS ARE BEING MET.
   B. CONTINUOUS - THE FULL-TIME OBSERVATION BY THE SPECIAL INSPECTOR OF WORK BEING PERFORMED.
5. DUTIES AND RESPONSIBILITIES OF THE SPECIAL INSPECTOR
   A. THE SPECIAL INSPECTOR SHALL REVIEW ALL WORK LISTED BELOW FOR CONFORMANCE WITH THE APPROVED CONSTRUCTION PLANS AND SPECIFICATIONS AND THE 2018 IBC. ALL ITEMS NOT IN COMPLIANCE SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE CONTRACTOR FOR CORRECTION, AND IF UNCORRECTED, TO THE EOR AND THE BUILDING OFFICIAL.
   B. THE SPECIAL INSPECTOR SHALL FURNISH SPECIAL INSPECTION REPORTS TO THE EOR, CONTRACTOR, OWNER, AND BUILDING OFFICIAL ON A **BI-WEEKLY** BASIS, OR MORE FREQUENTLY AS REQUIRED BY THE BUILDING OFFICIAL. REPORTS SHALL DESCRIBE ALL INSPECTIONS, TEST PERFORMED, DISCREPANCY NOTICES AND CORRECTIVE ACTIONS TAKEN.
   C. ONCE CORRECTIONS HAVE BEEN MADE BY THE CONTRACTOR, THE SPECIAL INSPECTOR SHALL SUBMIT A FINAL SIGNED REPORT TO THE BUILDING OFFICIAL STATING THAT WORK REQUIRING SPECIAL INSPECTION WAS, TO THE BEST OF THE SPECIAL INSPECTOR'S KNOWLEDGE, IN CONFORMANCE WITH THE APPROVED CONSTRUCTION PLANS AND SPECIFICATIONS AS WELL AS THE APPLICABLE WORKMANSHIP PROVISIONS OF THE 2018 IBC.
6. DUTIES AND RESPONSIBILITIES OF THE CONTRACTOR
   A. THE CONTRACTOR SHALL SUBMIT A WRITTEN STATEMENT OF RESPONSIBILITY TO THE OWNER AND THE BUILDING OFFICIAL PRIOR TO THE COMMENCEMENT OF WORK. IN ACCORDANCE WITH IBC 1704.4, THE STATEMENT OF RESPONSIBILITY SHALL CONTAIN ACKNOWLEDGEMENT OF THE SPECIAL INSPECTION REQUIREMENTS CONTAINED WITHIN THE "STATEMENT OF SPECIAL INSPECTIONS".
   B. THE CONTRACTOR SHALL NOTIFY THE RESPONSIBLE SPECIAL INSPECTOR THAT WORK IS READY FOR INSPECTION AT LEAST ONE WORKING DAY (24 HOURS MINIMUM) BEFORE SUCH INSPECTION IS REQUIRED.
   C. ALL WORK REQUIRING SPECIAL INSPECTION SHALL REMAIN ACCESSIBLE AND EXPOSED UNTIL IT HAS BEEN OBSERVED BY THE SPECIAL INSPECTOR.
   D. THE SPECIAL INSPECTION PROGRAM DOES NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY TO COMPLY WITH THE CONTRACT DOCUMENTS. JOBSITE SAFETY AND MEANS AND METHODS OF CONSTRUCTION ARE SOLELY THE RESPONSIBILITY OF THE CONTRACTOR.
7. PLEASE SEE THE "SPECIAL INSPECTION SCHEDULE" ON THIS SHEET FOR THE TYPES, EXTENTS, AND FREQUENCY OF SPECIFIC ITEMS REQUIRING SPECIAL INSPECTIONS AND STRUCTURAL TESTS AS PART OF THIS PROJECT.
8. THIS STATEMENT OF SPECIAL INSPECTIONS ENCOMPASSES THE FOLLOWING DISCIPLINES: STRUCTURAL, ARCHITECTURAL
9. SPECIAL INSPECTIONS FOR SEISMIC RESISTANCE ARE REQUIRED PER IBC 1705.12.
   A. THE FOLLOWING COMPONENTS ARE DESIGNATED SEISMIC SYSTEMS OR PART OF THE SEISMIC FORCE RESISTING SYSTEM SUBJECT TO SPECIAL INSPECTIONS: WOOD FRAMED SHEAR WALLS
10. SPECIAL INSPECTIONS FOR WIND RESISTANCE ARE NOT REQUIRED PER IBC 1705.11.

PREPARED BY:

NAME: GEOFFREY GOODMILLER

LICENSE #: 119715

SIGNATURE: _____ DATE: 4/4/2022

GEOFFREY GOODMILLER – REGISTERED ENGINEER – AGRICULTURE – No. 119715 – STATE OF TENNESSEE

DESIGN PROFESSIONAL SEAL

OWNER'S AUTHORIZATION:

SIGNATURE: _____ DATE: _____

BUILDING OFFICIAL'S ACCEPTANCE:

SIGNATURE: _____ DATE: _____

SPECIAL INSPECTION SCHEDULE: SOILS

VERIFICATION AND INSPECTION	REQUIRED?	CONTINUOUS	PERIODIC
1. VERIFY MATERIALS BELOW SHALLOW FOUNDATIONS ARE ADEQUATE TO ACHIEVE THE DESIGN BEARING CAPACITY.	X		X
2. VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE REACHED PROPER MATERIAL.	X		X
3. PERFORM CLASSIFICATION AND TESTING OF COMPACTED FILL MATERIALS.	X		X
4. VERIFY USE OF PROPER MATERIALS, DENSITIES AND LIFT THICKNESS DURING PLACEMENT AND COMPACTION OF COMPACTED FILL.	X	X	
5. PRIOR TO PLACEMENT OF COMPACTED FILL, OBSERVE SUBGRADE AND VERIFY THAT SITE HAS BEEN PREPARED PROPERLY	X		X

SPECIAL INSPECTION SCHEDULE: CAST-IN-PLACE FOUNDATION ELEMENTS

VERIFICATION AND INSPECTION	REQUIRED?	CONTINUOUS	PERIODIC
1. SPECIAL INSPECTIONS AND VERIFICATIONS FOR CONCRETE FOUNDATION CONSTRUCTION IN ACCORDANCE WITH THE SPECIAL INSPECTION SCHEDULE: CONCRETE CONSTRUCTION:			
A. ISOLATED SPREAD CONCRETE FOOTINGS	X		X
B. CONTINUOUS CONCRETE FOOTINGS SUPPORTING WALLS	X		X
C. CONCRETE FOUNDATION WALLS	X		X

SPECIAL INSPECTION SCHEDULE: CONCRETE CONSTRUCTION

VERIFICATION AND INSPECTION	REQUIRED?	CONTINUOUS	PERIODIC
1. INSPECT REINFORCEMENT AND VERIFY PLACEMENT.	X		X
2. REINFORCING BAR WELDING:			
A. VERIFY WELDABILITY OF REINFORCING BARS OTHER THAN ASTM A706.	X		X
B. INSPECT SINGLE-PASS FILLET WELDS, MAXIMUM 5/16"	X		X
C. INSPECT ALL OTHER WELDS	X	X	
3. INSPECT ANCHORS CAST IN CONCRETE	X		X
4. INSPECT ANCHORS POST-INSTALLED IN HARDENED CONCRETE MEMBERS (NOTE a):			
A. ADHESIVE ANCHORS INSTALLED IN HORIZONTALLY OR UPWARDLY INCLINED ORIENTATIONS TO RESIST SUSTAINED TENSION LOADS.	X	X	
B. MECHANICAL ANCHORS AND ADHESIVE ANCHORS NOT DEFINED IN 4A.	X		X
5. VERIFY USE OF REQUIRED DESIGN MIX.	X		X
6. PRIOR TO CONCRETE PLACEMENT, FABRICATE SPECIMENS FOR STRENGTH TESTS, PERFORM SLUMP AND AIR CONTENT TESTS, AND DETERMINE THE TEMPERATURE OF THE CONCRETE.	X	X	
7. INSPECT CONCRETE AND SHOTCRETE PLACEMENT FOR PROPER APPLICATION TECHNIQUES.	X	X	
8. VERIFY MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUES.	X		X
9. INSPECT PRESTRESSED CONCRETE FOR:			
A. APPLICATION OF PRESTRESSING FORCES.			
B. GROUTING OF BONDED PRESTRESSING TENDONS.			
10. INSPECT ERECTION OF PRECAST CONCRETE MEMBERS.			
11. VERIFY IN-SITU CONCRETE STRENGTH, PRIOR TO STRESSING OF TENDONS IN POST-TENSIONED CONCRETE AND PRIOR TO REMOVAL OF SHORES AND FORMS FROM BEAMS AND STRUCTURAL SLABS.	X		X
12. INSPECT FORMWORK FOR SHAPE, LOCATION AND DIMENSIONS OF THE CONCRETE MEMBER BEING FORMED	X		X

TABLE NOTES:
a. SPECIFIC REQUIREMENTS FOR SPECIAL INSPECTION SHALL BE INCLUDED IN THE RESEARCH REPORT FOR THE ANCHOR ISSUED BY AN APPROVED SOURCE IN ACCORDANCE WITH ACI 355.2 OR OTHER QUALIFICATION PROCEDURES. WHERE SPECIFIC REQUIREMENTS ARE NOT PROVIDED, SPECIAL INSPECTION REQUIREMENTS SHALL BE SPECIFIED BY THE REGISTERED DESIGN PROFESSIONAL AND SHALL BE APPROVED BY THE BUILDING OFFICIAL PRIOR TO THE COMMENCEMENT OF THE WORK.

SPECIAL INSPECTION SCHEDULE: WOOD CONSTRUCTION

VERIFICATION AND INSPECTION	REQUIRED?	CONTINUOUS	PERIODIC
1. FABRICATION PROCESS OF PREFABRICATED WOOD STRUCTURAL ELEMENTS AND ASSEMBLIES	X		X
2. INSPECTION OF HIGH-LOAD DIAPHRAGMS:			
A. VERIFY WOOD STRUCTURAL PANEL SHEATHING IS OF THE GRADE AND THICKNESS SHOWN ON THE CONSTRUCTION DOCUMENTS	X		X
B. VERIFY NOMINAL SIZE OF FRAMING MEMBERS AT ADJOINING PANEL EDGES AGREES WITH THE CONSTRUCTION DOCUMENTS	X		X
C. VERIFY FASTENER DIAMETER AND LENGTH, NUMBER OF FASTNER LINES, THE SPACING OF THE FASTENERS IN EACH LINE AND AT EDGE MARGINS AGREE WITH THE CONSTRUCTION DOCUMENTS	X		X
3. INSPECTION OF METAL-PLATE-CONNECTED WOOD TRUSSES SPANNING 60 FEET OR GREATER:			
A. VERIFY TEMPORARY INSTALLATION RESTRAINT/BRACING ARE INSTALLED IN ACCORDANCE WITH APPROVED TRUSS SUBMITTAL PACKAGE	X		X
B. VERIFY PERMANENT INDIVIDUAL TRUSS MEMBER RESTRAINT/BRACING ARE INSTALLED IN ACCORDANCE WITH APPROVED TRUSS SUBMITTAL PACKAGE	X		X
4. VERIFY COMPLIANCE W/ CONSTRUCTION DOCUMENTS OF STRUCTURAL COMPONENTS INCLUDING:			
A. KING STUDS, JACK STUDS, AND HEADERS	X		X
B. BLOCKING, NAILING, AND SILL PLATE ANCHORAGE	X		X
C. STRAPPING, HOLDOWNS, AND BEARING	X		X
D. SIZE OF TRUSSES AND ALL SUPPLEMENTARY FRAMING	X		X
E. MECHANICAL CONNECTIONS	X		X
F. MATERIAL PROPERTIES	X		X

SPECIAL INSPECTION SCHEDULE: SEISMIC RESISTANCE

VERIFICATION AND INSPECTION	REQUIRED?	CONTINUOUS	PERIODIC
1. INSPECTION OF STRUCTURAL STEEL SHALL BE IN ACCORDANCE WITH THE QUALITY ASSURANCE REQUIREMENTS OF AISC 341 LISTED IN THE ACCOMPANYING TABLES THIS SHEET			
2. INSPECTION OF COLD-FORMED STEEL FRAMING:			
A. INSPECT WELDING OPERATIONS OF ELEMENTS OF THE SEISMIC FORCE-RESISTING SYSTEM			
B. INSPECT SCREWING, BOLTING, ANCHORING, AND OTHER FASTENING OF ELEMENTS OF THE SEISMIC FORCE-RESISTING SYSTEM, INCLUDING WOOD SHEAR WALLS, WOOD DIAPHRAGMS, DRAG STRUTS, BRACES, AND HOLDOWNS WHERE SHEATHING FASTENER SPACING OF MORE THAN 4 INCHES ON CENTER			
3. INSPECTION OF STRUCTURAL WOOD:			
A. INSPECT FIELD GLUING OPERATIONS OF ELEMENTS OF THE SEISMIC FORCE-RESISTING SYSTEM	X	X	
B. INSPECT NAILING, BOLTING, ANCHORING, AND OTHER FASTENING OF ELEMENTS OF THE SEISMIC FORCE-RESISTING SYSTEM, INCLUDING WOOD SHEAR WALLS, WOOD DIAPHRAGMS, DRAG STRUTS, BRACES, AND HOLDOWNS WHERE SHEATHING FASTENER SPACING OF MORE THAN 4 INCHES ON CENTER	X		X
4. INSPECT ANCHORAGE OF STORAGE RACKS 8 FEET OR GREATER IN HEIGHT			
5. INSPECTION OF ARCHITECTURAL COMPONENTS:			
A. INSPECT ERECTION AND FASTENING OF EXTERIOR CLADDING AND VENEER THAT IS HIGHER THAN 30 FEET ABOVE GRADE OR WALKING SURFACE AND WEIGHS MORE THAN 5 PSF	X		X
B. INSPECT ERECTION AND FASTENING OF EXTERIOR NONBEARING WALLS THAT ARE HIGHER THAN 30 FEET ABOVE GRADE OR WALKING SURFACE	X		X
C. INSPECT ERECTION AND FASTENING OF EXTERIOR NONBEARING WALLS THAT ARE HIGHER THAN 30 FEET ABOVE GRADE OR WALKING SURFACE	X		X
D. INSPECT ANCHORAGE OF ACCESS FLOORS	X		X
6. INSPECTION OF PLUMBING, MECHANICAL, AND ELECTRICAL COMPONENTS:			
A. INSPECT ANCHORAGE OF ELECTRICAL EQUIPMENT FOR EMERGENCY OR STANDBY POWER SYSTEMS			
B. INSPECT ANCHORAGE OF ALL ELECTRICAL EQUIPMENT IN STRUCTURES ASSIGNED TO SEISMIC DESIGN CATEGORY E OR F			
C. INSPECT INSTALLATION AND ANCHORAGE OF PIPING SYSTEMS DESIGNED TO CARRY HAZARDOUS MATERIALS AND THEIR ASSOCIATED MECHANICAL UNITS			
D. INSPECT INSTALLATION AND ANCHORAGE OF DUCTWORK DESIGNED TO CARRY HAZARDOUS MATERIALS			
E. INSPECT INSTALLATION AND ANCHORAGE OF VIBRATION ISOLATION SYSTEMS WHERE THE CONSTRUCTION DOCUMENTS REQUIRED A NOMINAL CLEARANCE OF 1/4" OR LESS BETWEEN THE EQUIPMENT SUPPORT FRAME AND RESTRAINT			
F. INSPECT INSTALLATION OF MECHANICAL AND ELECTRICAL EQUIPMENT, INCLUDING DUCT WORK, PIPING SYSTEMS AND THEIR STRUCTURAL SUPPORTS, WHERE AUTOMATIC FIRE SPRINKLER SYSTEMS ARE INSTALLED TO VERIFY ONE OF THE FOLLOWING, EXCEPT WHERE FLEXIBLE SPRINKLER HOSE FITTINGS ARE USED:			
a. MINIMUM CLEARANCES HAVE BEEN PROVIDED AS REQUIRED BY SECTION 13.2.3 OF ASCE7.	X		X
b. A NOMINAL CLEARANCE OF NOT LESS THAN 3 INCHES HAS BEEN PROVIDED BETWEEN FIRE PROTECTION SPRINKLER SYSTEM DROPS AND SPRIGS AND STRUCTURAL MEMBERS NOT USED COLLECTIVELY OR INDEPENDENTLY TO SUPPORT THE SPRINKLERS; EQUIPMENT ATTACHED TO THE BUILDING STRUCTURE; AND OTHER SYSTEMS' PIPING.	X		X
7. INSPECTION OF DESIGNATED SEISMIC SYSTEMS:			
A. VERIFY LABEL, ANCHORAGE, AND MOUNTING CONFORM TO THE CERTIFICATE OF COMPLIANCE	X		X
B. EXAMINE DESIGNATED SEISMIC SYSTEMS REQUIRING SEISMIC QUALIFICATION IN ACCORDANCE WITH SECTION 13.2.2 OF ASCE 7	X		X
8. INSPECT THE FABRICATION AND INSTALLATION OF ISOLATOR UNITS AND ENERGY DISSIPATION DEVICES THAT ARE PART OF THE SEISMIC ISOLATION SYSTEM			
9. INSPECT THE INSTALLATION OF COLD-FORMED STEEL SPECIAL BOLTED MOMENT FRAME			

TABLE NOTES:
a. DESIGNATED SEISMIC SYSTEMS ARE NONSTRUCTURAL COMPONENTS THAT REQUIRE DESIGN IN ACCORDANCE WITH CHAPTER 13 OF ASCE 7 AND FOR WHICH THE COMPONENT IMPORTANCE FACTOR, Ip IS GREATER THAN 1 IN ACCORDANCE WITH SECTION 13.1.3 OF ASCE 7, INDICATING THE COMPONENTS ARE REQUIRED TO FUNCTION FOR LIFE-SAFETY PURPOSES AFTER AN EARTHQUAKE, OR THE COMPONENT IS IN OR ATTACHED TO A RISK CATEGORY IV STRUCTURE AND IT IS NEEDED FOR CONTINUED OPERATION OF THE FACILITY OR ITS FAILURE COULD IMPAIR THE CONTINUED OPERATION OF THE FACILITY.

SPECIAL INSPECTIONS

9/22/2022 11:34:33 AM

MHM

McCarty Holsaple McCarty, Inc.
550 W. Main St., Suite 300
Knoxville, TN 37902
t 865.544.2000
www.mhminc.com

Consultants:

CIVIL ENGINEER:
HUDDLESTON-STEELE ENGINEERING INC.
2112 N.W. BROAD ST.
MURFREESBORO, TN 37129
615.893.4084

LANDSCAPE ARCHITECT:
RAGAN SMITH
100 E. VINE ST., STE 200
MURFREESBORO, TN 37130
615.546.6050

STRUCTURAL ENGINEER:
HAINES STRUCTURAL GROUP
800 S. GAY ST., STE 1750
KNOXVILLE TN, 37929
865.329.9920

MECHANICAL & PLUMBING ENGINEER:
FACILITY SYSTEMS CONSULTANTS
713 S. CENTRAL ST., STE 101
KNOXVILLE TN, 37902
865.246.0164

ELECTRICAL ENGINEER:
FACILITY SYSTEMS CONSULTANTS
713 S. CENTRAL ST., STE 101
KNOXVILLE TN, 37902
865.246.0164

Project Information:

21026

MHA Parkside Housing

520 EAST CASTLE STREET,
MURFREESBORO, TN 37130

Seal:

GEOFFREY GOODMILLER – REGISTERED ENGINEER – AGRICULTURE – No. 119715 – STATE OF TENNESSEE – 4/4/2022

Consultant:

HAINES STRUCTURAL GROUP
800 S. GAY STREET, STE. 1750 KNOXVILLE, TN 37929
(855) 329-9920 | WWW.HAINES-SG.COM
project no. 22187

#	ISSUE	DATE

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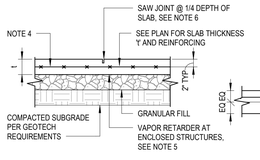
PM	GRG
PA	G. TAYLOR
Drawn By:	CWR
Checked By:	GRG

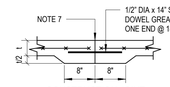
Sheet Description:

S-003

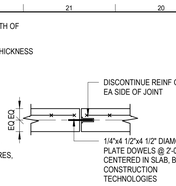
SPECIAL INSPECTIONS

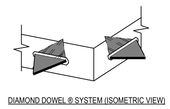


TYPICAL REQUIREMENTS



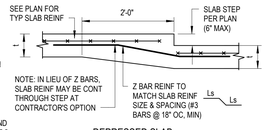
CONSTRUCTION JOINT



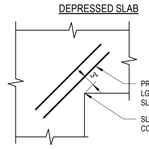


DIAMOND DOWEL ® SYSTEM (ISOMETRIC VIEW)

ALT CONSTRUCTION JOINT



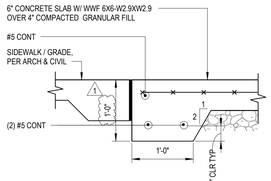
DEPRESSED SLAB



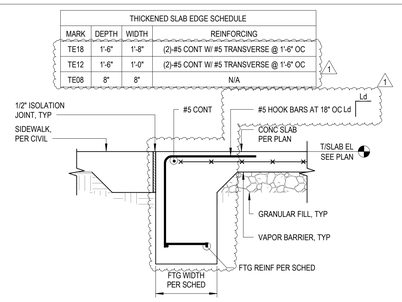
SLAB RE-ENTRANT CORNER

NOTES:
1. ALL SLAB-ON-GRADE CONSTRUCTION SHALL FOLLOW THE RECOMMENDATIONS OF ACI 302.1 "GUIDE FOR CONCRETE FLOOR AND SLAB CONSTRUCTION"
2. PROVIDE CURING, FINISHING & SEALING OF SLABS PER ACI 302.1 GUIDELINES. CONCRETE SLABS SHALL CONFORM TO ACI 117-90 FOR FLATNESS AND LEVELNESS. PROVIDE CLASS 1 FLOOR FINISH WITH A FLATNESS/LEVELNESS OF 25/20 (16/13 MIN) ACCORDING TO ASTM E1155, UNLESS SHOWN ON ARCHITECTURAL DRAWINGS OR OTHERWISE NOTED. CONTRACTOR TO PROVIDE FLOOR FLATNESS AND LEVELNESS TESTING WITHIN 72 HOURS OF CONCRETE FINISHING. TEST RESULTS SHALL BE PROVIDED TO THE ARCHITECT AND STRUCTURAL ENGINEER.
3. PROVIDE CURING USING A LIQUID MEMBRANE-FORMING CURING COMPOUND. PROVIDE A POLYETHYLENE (PLASTIC) FILM WHERE WEATHER/TEMPERATURE CONDITIONS REQUIRE ADDITIONAL PROTECTION FOR CURING.
4. WIRE FABRIC SHALL BE PLACED 2" BELOW TOP OF SLAB, UNO. WWF SHALL BE SUPPORTED AT A MAXIMUM SPACING OF 3'-0" OC IN ANY DIRECTION. ALL WELDED WIRE FABRIC SHALL LAP TWO FULL MESHES AND BE SECURELY WIRED AT EACH SIDE AND END. WELDED WIRE FABRIC SHALL BE FABRICATED FROM SHEETS. ROLLS ARE NOT ALLOWED.
5. A VAPOR BARRIER SHALL BE PROVIDED BELOW SLAB-ON-GRADE AT ALL INTERIOR LOCATIONS. VAPOR BARRIER SHALL BE LAPPED AND TAPED AS REQUIRED BY MANUFACTURER. SEE ARCHITECTURAL FOR ADDITIONAL VAPOR BARRIER REQUIREMENTS.
6. PROVIDE CONTROL JOINTS THAT DIVIDE THE SLAB-ON-GRADE INTO RECTANGULAR AREAS WITH LENGTH TO WIDTH RATIOS OF 1.5 OR LESS. LOCATE CONTROL JOINTS UNDER PARTITIONS AND ON COLUMN LINES WHERE POSSIBLE. SUBMIT JOINT LOCATIONS TO OWNER'S REPRESENTATIVE FOR APPROVAL PRIOR TO CONSTRUCTION. CONTROL JOINT LOCATIONS SHOWN ON PLAN ARE THE MINIMUM ALLOWABLE BASED ON ONE CONTINUOUS SLAB POUR. ADDITIONAL JOINTS SHALL BE ADDED BY THE CONTRACTOR AS REQUIRED BASED ON POUR SEQUENCE AND SLAB LAYOUT. CONTROL JOINT SPACING SHALL NOT EXCEED THE MAXIMUM SPACING NOTED ON PLAN.
7. ALL CONSTRUCTION JOINTS SHALL BE PLACED AT COLUMN LINES OR UNDER PARTITIONS AT DISCRETION OF CONTRACTOR. FOR SLAB POUR MAINTAIN CONSISTENT SPACING WITH CONTROL JOINTS.

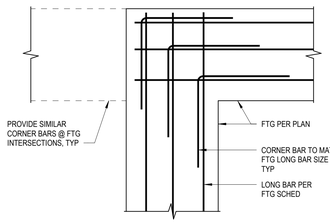
1 TYPICAL SLAB-ON-GRADE CONSTRUCTION
3/4" = 1'-0"



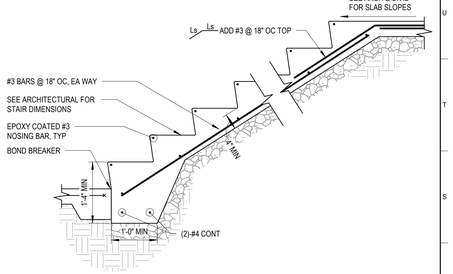
THICKENED SLAB EDGE SCHEDULE			
MARK	DEPTH	WIDTH	REINFORCING
TE18	1'-6"	1'-8"	(2)-#5 CONT W/ #5 TRANSVERSE @ 1'-6" OC
TE12	1'-6"	1'-0"	(2)-#5 CONT W/ #5 TRANSVERSE @ 1'-6" OC
TE08	8"	8"	N/A

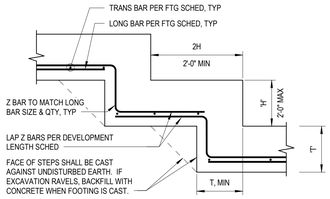


4 TYPICAL FOOTING CORNER BARS
3/4" = 1'-0"



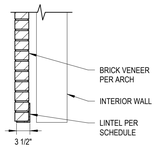
5 TYPICAL CONCRETE STAIR ON GRADE
3/4" = 1'-0"





8 TYPICAL FOOTING STEP
3/4" = 1'-0"

BRICK LINTEL SCHEDULE	
CLEAR OPENING	LINTEL
≤ 3'-4"	L3-1/2X3-1/2X5/16
3'-5" TO 6'-0"	L4x3-1/2x5/16
6'-1" TO 7'-4"	L5x3-1/2x5/16
7'-5" TO 10'-0"	L6x3-1/2x3/8



NOTES:
1. PROVIDE LOOSE STEEL LINTELS IN BRICK MASONRY WALLS AS SCHEDULED ABOVE UNLESS NOTED OTHERWISE ON PLAN OR IN DETAILS.
2. OPENINGS GREATER THAN 10'-0" SHALL BE COORDINATED WITH THE ENGINEER OF RECORD PRIOR TO CONSTRUCTION.
3. LINTELS SHALL BEAR A MINIMUM OF 8" ON EACH END.
4. ALL LINTELS SHALL BE HOT DIP GALVANIZED AFTER FABRICATION.
5. BRICK HEIGHTS EXCEEDING HALF THE LINTEL SPAN SHALL BE SHORED UNTIL MORTAR AS SET AND CURED.
6. SCHEDULE IS APPLICABLE ONLY FOR BRICK LAID IN RUNNING BOND.

9 TYPICAL LOOSE BRICK LINTELS
3/4" = 1'-0"

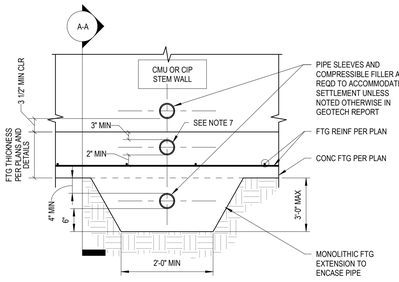
NOTES:
1. NOTATIONS:
   db: NOMINAL BAR DIAMETER (INCHES)
   Ld: TENSION DEVELOPMENT LENGTH (INCHES) FOR REINFORCEMENT SATISFYING THE FOLLOWING REQUIREMENTS:
   SLABS AND WALLS: CLEAR SPACING > 2db, AND CONCRETE CLEAR COVER > db
   BEAMS AND COLUMNS: CLEAR SPACING > db, AND CONCRETE CLEAR COVER > db
   Lt: DEVELOPMENT LENGTH OF BARS IN THICK CONCRETE = 1.3 X Ld (INCHES)
   Lb: DEVELOPMENT LENGTH OF BARS OR DOWELS IN COMPRESSION = 19 X db (INCHES)
   Lc: TIED COLUMN LAP SPLICE IN COMPRESSION = 30 X db (INCHES)
   Lcs: SPIRAL COLUMN LAP SPLICE IN COMPRESSION = 22.5 X db (INCHES)
   Ls: TYPICAL LAP SPLICE LENGTH = 1.3 X Ld (INCHES)
   Lsb: LAP SPLICE LENGTH OF HORIZONTAL BARS IN THICK CONCRETE = 1.69 X Ld (INCHES)
2. MULTIPLY VALUES IN THE TABLE BY 1.5 IF CLEAR SPACING OR CONCRETE COVER DO NOT MEET THE REQUIREMENTS FOR Ld IN NOTE 1.
3. "HORIZONTAL BARS IN THICK CONCRETE" REFERS TO BARS WITH MORE THAN 12 INCHES OF FRESH CONCRETE CAST BELOW. THIS INCLUDES BEAMS, SLABS, FOUNDATIONS, AND WALLS.
4. THE DEVELOPMENT AND SPLICE LENGTHS ARE BASED ON REINFORCEMENT STRENGTH Fy = 60 KSI.
5. #14 AND #18 BARS SHALL NOT BE LAP SPLICED. SEE "GENERAL NOTES"
6. MULTIPLY VALUES IN THE TABLE BY 1.3 FOR USE WITH LIGHTWEIGHT AGGREGATE CONCRETE.

f'c = 3,000 PSI				
BAR SIZE	Ld	Lt	Ls	Lsb
#3	17	22	22	28
#4	22	29	29	38
#5	28	36	36	47
#6	33	43	43	56
#7	48	63	63	81
#8	55	72	72	93
#9	62	81	81	105
#10	70	91	91	118
#11	78	101	101	131
#14	93	121	--	--
#18	124	161	--	--

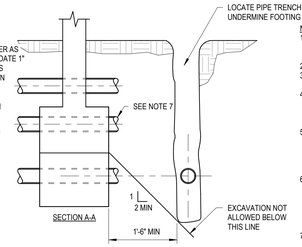
f'c = 4,000 PSI				
BAR SIZE	Ld	Lt	Ls	Lsb
#3	15	19	19	25
#4	19	25	25	33
#5	24	31	31	41
#6	29	37	37	49
#7	42	54	54	71
#8	48	62	62	81
#9	54	70	70	91
#10	61	79	79	102
#11	67	87	87	114
#14	81	105	--	--
#18	108	140	--	--

10 CONCRETE DEVELOPMENT LENGTH SCHED
3/4" = 1'-0"

6 TYPICAL MECH / ELEC PAD
1" = 1'-0"



7 TYPICAL THICKENED SLAB EDGE DETAIL
1" = 1'-0"



NOTES:
1. IF PIPE IS GREATER THAN 4'-0" BELOW BOTTOM OF FOOTING, NO CONCRETE TRENCH SHALL BE REQUIRED.
2. TRENCH WIDTH TO EQUAL FOOTING WIDTH ABOVE.
3. FTG & TRENCH MAY BE POURED MONOLITHICALLY @ CONTRACTORS OPTION.
4. PIPES MAY BE ENCASED BELOW THE FTG, EMBEDDED IN THE FOOTING ABOVE THE REINFORCEMENT, OR THROUGH THE STEM WALL BELOW THE SLAB AS SHOWN.
5. FOR PIPES RUNNING THROUGH FOOTING: PIPE SHALL PASS ABOVE FOOTING REINF, DO NOT BREAK FOOTING REINF, MAINTAIN 3" MIN CONCRETE COVER, MAINTAIN 2" OF CONCRETE BETWEEN PIPE SLEEVE AND REINFORCEMENT, MIN AS SHOWN.
6. FOR PIPES RUNNING PARALLEL TO STRIP FOOTINGS, FOOTING DEPTH AND PIPE LOCATION SHALL BE COORDINATED SO THAT THE PIPE IS NOT WITHIN THE FTG LOAD DISTRIBUTION THAT EXTENDS AT 45 DEGREE ANGLE OUT FROM THE BOTTOM EDGE OF THE FOOTING AS SHOWN.
7. IF CLEARANCES WITHIN FOOTING CANNOT BE ACHIEVED, PIPES AND PIPE SLEEVES MAY NOT BE INSTALLED THROUGH THE FOOTING.

11 TYPICAL PIPE AND TRENCH LOCATIONS AT FOOTINGS / WALLS
NTS

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MHM

McCarty Holsaple McCarty, Inc.
550 W. Main St., Suite 300
Knoxville, TN 37902
t 865.544.2000
www.mhminc.com

Consultants:

CIVIL ENGINEER:
HUDDLESTON-STEELE ENGINEERING INC.
2112 N.W. BROAD ST.
MURFREESBORO, TN 37129
615.893.4084

LANDSCAPE ARCHITECT:
RAGAN SMITH
100 E. VINE ST., STE 200
MURFREESBORO, TN 37130
615.546.6050

STRUCTURAL ENGINEER:
HAINES STRUCTURAL GROUP
800 S. GAY ST., STE 1750
KNOXVILLE TN, 37929
865.329.9920

MECHANICAL & PLUMBING ENGINEER:
FACILITY SYSTEMS CONSULTANTS
713 S. CENTRAL ST., STE 101
KNOXVILLE TN, 37902
865.246.0164

ELECTRICAL ENGINEER:
FACILITY SYSTEMS CONSULTANTS
713 S. CENTRAL ST., STE 101
KNOXVILLE TN, 37902
865.246.0164

Project Information:

21026

MHA Parkside Housing
520 EAST CASTLE STREET,
MURFREESBORO, TN 37130

Seal:

Consultant:

HAINES STRUCTURAL GROUP
800 S. GAY STREET, STE. 1750 KNOXVILLE, TN 37929
(865) 329-9920 | WWW.HAINES-SG.COM
project no. 21187

#	ISSUE	DATE
1	Revision 01 - City Comments Response	8/23/2022

Issue Date:	04/04/2022
PIC	RAH
PM	GRG
PA	G. TAYLOR
Drawn By:	CWR
Checked By:	GRG

Sheet Description:

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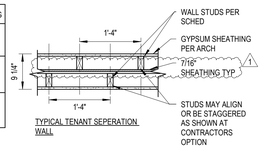
TYPICAL CONCRETE DETAILS

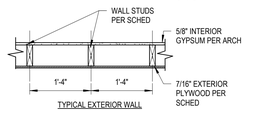
MARK	LEVEL	STUD SIZE AND SPACING
WS4A	1ST FLOOR 2ND FLOOR	2X4 @ 16" OC 2X4 @ 16" OC
WS4B	1ST FLOOR 2ND FLOOR 3RD FLOOR	(2)2X4 @ 16" OC 2X4 @ 16" OC 2X4 @ 16" OC
WS6A	1ST FLOOR 2ND FLOOR 3RD FLOOR	2X6 @ 16" OC 2X6 @ 16" OC 2X6 @ 16" OC

STUD WALL FRAMING NOTES:

1. THIS WALL SCHEDULE APPLIES ONLY TO STRUCTURAL BEARING AND SHEAR WALLS.
2. STUD SIZE AND SPACING IS BASED ON NO1/NO2 GRADE SPRUCE PINE FIR MATERIAL WITH THE FOLLOWING PROPERTIES:
3. Fb = 875 psi, Fc = 1150 psi, E = 1400 ksi
4. ALL EXTERIOR, BREEZEWAY, AND SHARED TENANT WALLS ARE CONSIDERED STRUCTURAL AND SHALL BE CONSTRUCTED BY THIS SCHEDULE.
5. WHERE ARCHITECTURAL STUD REQUIREMENTS CONFLICT WITH THIS SCHEDULE, THE MORE RESTRICTIVE SHALL APPLY.
6. ALL STUD WALLS, STRUCTURAL AND NON-STRUCTURAL SHALL BE FRAMED AT A MINIMUM WITH 2X4 STUDS @ 16" OC, TYP



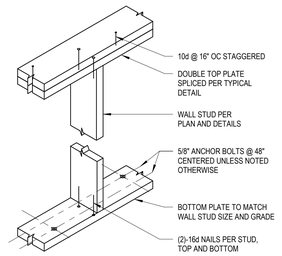
TYPICAL TENANT SEPERATION WALL

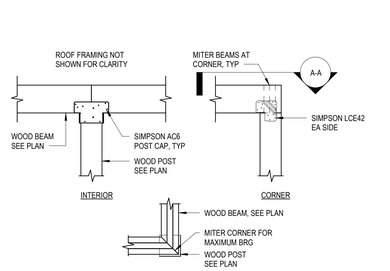


TYPICAL EXTERIOR WALL

1 WOOD WALL STUD SCHEDULE

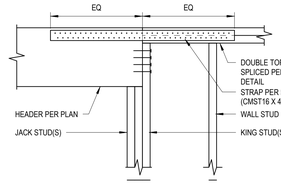
3/4" = 1'-0"

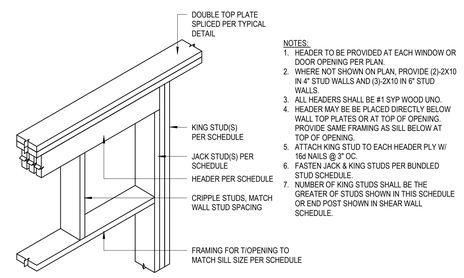




2 TYPICAL POST TO GIRDER CONN

3/4" = 1'-0"





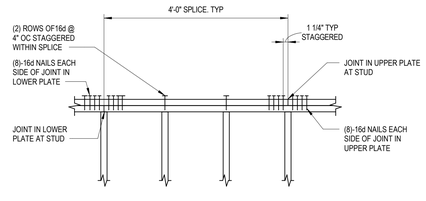
NOTES:
1. HEADER TO BE PROVIDED AT EACH WINDOW OR DOOR OPENING PER PLAN.
2. WHERE NOT SHOWN ON PLAN, PROVIDE (2)-2X10 IN 4" STUD WALLS AND (3)-2X10 IN 6" STUD WALLS.
3. ALL HEADERS SHALL BE #1 SYP WOOD UNO.
4. HEADER MAY BE BE PLACED DIRECTLY BELOW WALL TOP PLATES OR AT TOP OF OPENING. PROVIDE SAME FRAMING AS SILL BELOW AT TOP OF OPENING.
5. ATTACH KING STUD TO EACH HEADER PLY W/ 16d NAILS @ 3" OC.
6. FASTEN JACK & KING STUDS PER BUNDLED STUD SCHEDULE.
7. NUMBER OF KING STUDS SHALL BE THE GREATER OF STUDS SHOWN IN THIS SCHEDULE OR END POST SHOWN IN SHEAR WALL SCHEDULE.

3 TYPICAL HEADER AND JAMB SCHEDULE

3/4" = 1'-0"

HEADER SCHEDULE		
SPAN	UP TO 4'-0"	4'-0" TO 6'-4"
HEADER SIZE	(3) 2X10	(3) 2X12
SILL SIZE	(1) 2X6	(1) 2X6
JAMB REQUIREMENTS (LOCATION / LEVEL)	EXTERIOR / INTERIOR	EXTERIOR
3RD FLOOR	1J/2K	1J/1K / 1J/2K
2ND FLOOR	1J/2K	2J/1K / 1J/2K
1ST FLOOR	2J/2K	2J/1K / 2J/3K

1J/2K
1 # KING STUDS
2 # JACK STUDS

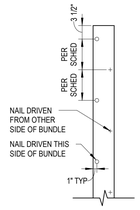


NAILED SPLICE

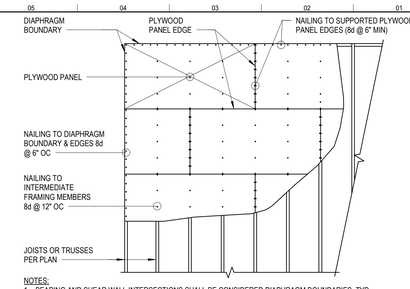
NOTES:
1. PROVIDE CONT TOP PLATES (NO JOINTS) WHERE WALLS ARE 12'-0" OR LESS IN LENGTH.

BUNDLED STUD SCHEDULE		
# OF STUDS	STUD SIZE	FACE NAILING FOR BUNDLED STUDS
2	2x	10d @ 6" OC STAGGERED ALT FACE
3	2x	20d @ 8" OC STAGGERED ALT FACE
4	2x	20d @ 8" OC STAGGERED ALT FACE

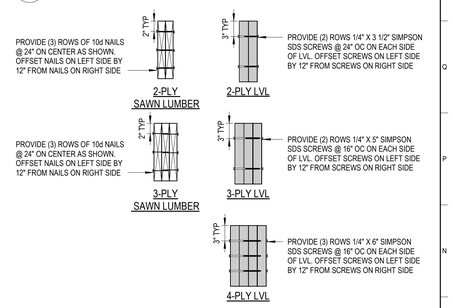
NOTES:
1. AS ALTERNATE TO BUNDLED STUD NAILING FOR BUNDLES OF 3 OR MORE, STUDS MAY BE BUNDLED PER 2 STUDS WITH 10d @ 6" OC STAGGERED FOR EACH ADDITIONAL STUD.
2. ALL BUNDLED STUDS SHALL BE CONSIDERED AS ONE STUD IN ALL DETAILS THAT CALL FOR A "NUMBER OF STUDS".



5 TYPICAL ROOF / FLOOR SHEATHING LAYOUT

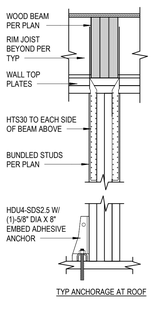


NOTES:
1. BEARING AND SHEAR WALL INTERSECTIONS SHALL BE CONSIDERED DIAPHRAGM BOUNDARIES, TYP
2. FLOOR AND ROOF SHEATHING PANELS SHALL BE STAGGERED AS SHOWN WITH LONG DIRECTION OF SHEATHING PERPENDICULAR TO TRUSSES OR JOISTS. SEE SHEARWALL SCHEDULE FOR WALL SHEATHING PANEL ORIENTATION.

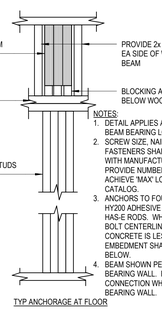


6 TYPICAL WOOD WALL STUD ANCHORAGE

1" = 1'-0"



TYP ANCHORAGE AT ROOF

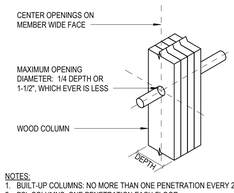


TYP ANCHORAGE AT FLOOR

NOTES:
1. DETAIL APPLIES AT ALL MULTI-PLY LVL BEAM BEARING LOCATIONS.
2. SCREW SIZE, NAIL SIZE, AND NUMBER OF FASTENERS SHALL BE IN ACCORDANCE WITH MANUFACTURER'S CATALOG. PROVIDE NUMBER OF FASTENERS TO ACHIEVE 'MAX' LOAD VALUE PER CATALOG.
3. ANCHORS TO FOUNDATION TO BE HILTI HY200 ADHESIVE ANCHORS WITH HILTI HAS-E RODS. WHERE DISTANCE FROM BOLT CENTERLINE TO EDGE OF CONCRETE IS LESS THAN 3 1/8" EMBEDMENT SHALL BE INTO THE FOOTING BELOW.
4. BEAM SHOWN PERPENDICULAR TO BEARING WALL. PROVIDE SIMILAR CONNECTION WHEN BEAM IS PARALLEL TO BEARING WALL.

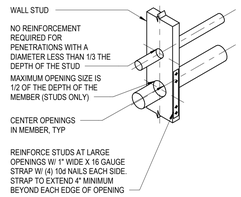
7 TYPICAL HEADER/PLATE SPLICE

1" = 1'-0"



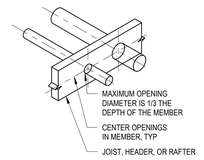
NOTES:
1. BUILT-UP COLUMNS: NO MORE THAN ONE PENETRATION EVERY 2'-0" VERTICAL ALONG MEMBER LENGTH.
2. PSL COLUMNS: ONE PENETRATION EACH FLOOR.
3. CARE SHALL BE TAKEN NOT TO SPLINTER MEMBER WHERE DRILL BIT WILL EMERGE.
4. IN NO CASE SHALL PENETRATIONS OCCUR THROUGH STEEL COLUMNS WITHOUT WRITTEN CONSENT FROM ENGINEER .
5. SPECIAL CARE SHALL BE TAKEN WITH PSL COLUMNS TO LOCATE PENETRATION DIRECTLY THROUGH CENTER OF MEMBER AND TO PREVENT DAMAGE DURING DRILLING.
6. ANY MEMBERS WITH SPLITS ORIGINATING FROM PENETRATION SHALL BE REPLACED.

8 TYPICAL TOP PLATE SPLICE



NOTES:
1. NO MORE THAN ONE PENETRATION EVERY 2'-0" VERTICAL ALONG MEMBER LENGTH.
2. CARE SHALL BE TAKEN NOT TO SPLINTER MEMBER WHERE DRILL BIT WILL EMERGE.
3. ANY MEMBERS WITH SPLITS ORIGINATING FROM PENETRATION SHALL BE REPLACED.

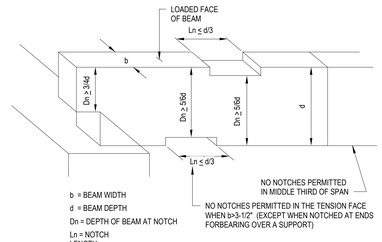
9 BUNDLED STUD SCHEDULE



NOTE: DETAIL ONLY APPLIES TO SAWN LUMBER. DETAIL DOES NOT APPLY TO HEAVY TIMBER OR ENGINEERED LUMBER (LSL, LVL, PSL, OR I-JOIST)

10 TYP BUILT-UP WOOD BEAM CONNECTIONS

1" = 1'-0"



b = BEAM WIDTH
d = BEAM DEPTH
Dn = DEPTH OF BEAM AT NOTCH
Ln = NOTCH LENGTH

11 TYPICAL WOOD BEAM ANCHORAGE

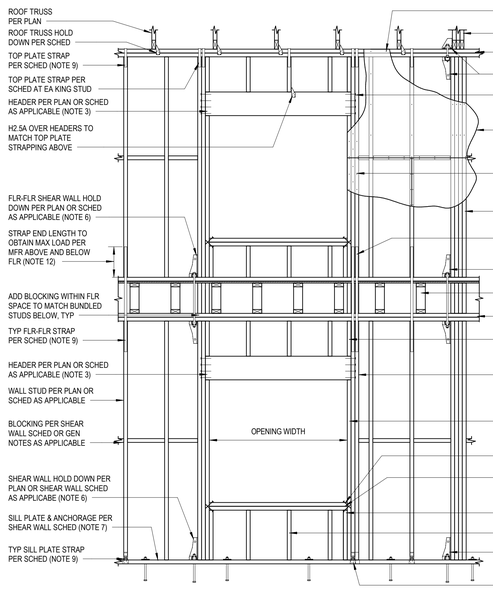
1" = 1'-0"

CONNECTION	NAIL	LOCATION
JOIST TO SILL OR GIRDER	(3) - 8d COMMON	TOE NAIL
BRIDGING TO JOIST	(2) - 8d COMMON	TOE NAIL EACH END
1" X 6" SUBFLOOR OR LESS TO EACH JOIST	(2) - 8d COMMON	FACE NAIL
WIDER THAN 1" X 6" SUBFLOOR TO EACH JOIST	(3) - 8d COMMON	FACE NAIL
2" SUBFLOOR TO JOIST OR GIRDER	(2) - 16d COMMON	BLIND & FACE NAIL
SOLE PLATE TO JOIST OR BLOCKING	16d COMMON @ 16" OC	TYPICAL FACE NAIL
SOLE PLATE TO JOIST OR BLOCKING @ BRACED WALL PANEL	(3) - 16d COMMON @ 16" OC	BRACED WALL PANELS
TOP PLATE TO STUD	(2) - 16d COMMON	END NAIL
STUD TO SOLE PLATE	(4) - 8d COMMON	TOE NAIL
STUD TO SOLE PLATE	(2) - 16d COMMON	END NAIL
DOUBLED STUDS	16d (3 1/2" x 0.135") @ 24" OC	FACE NAIL
DOUBLED TOP PLATE	16d (3 1/2" x 0.135") @ 16" OC	TYPICAL FACE NAIL
DOUBLED TOP PLATE	(8) - 16d COMMON	LAP SPLICE
BLOCKING BETWEEN JOISTS OR RAFTERS TO TOP PLATE	(3) - 8d COMMON	TOE NAIL
RIM JOIST TO TOP PLATE	8d (2 1/2" x 0.131") @ 6" OC	TOE NAIL
TOP PLATES, LAPS AND INTERSECTIONS	(2) - 16d COMMON	FACE NAIL
CONTINUOUS HEADER, TWO PIECES	16d COMMON @ 16" OC	ALONG EDGE
CEILING JOISTS TO PLATE	(3) - 8d COMMON	TOE NAIL
CONTINUOUS HEADER TO STUD	(4) - 8d COMMON	TOE NAIL
CEILING JOISTS, LAPS OVER PARTITIONS	(3) - 16d COMMON	FACE NAIL (SEE TABLE 2304.10.1)
CEILING JOISTS TO PARALLEL RAFTERS	(3) - 16d COMMON	FACE NAIL (SEE TABLE 2304.10.1)
RAFTER TO PLATE	(3) - 8d COMMON	TOE NAIL
1" DIAGONAL BRACE TO EACH STUD AND PLATE	(2) - 8d COMMON	FACE NAIL
1" X 8" SHEATHING TO EACH BEARING	(3) - 8d COMMON	FACE NAIL
WIDER THAN 1" X 8" SHEATHING TO EACH BEARING	(3) - 8d COMMON	FACE NAIL
BUILT-UP CORNER STUDS	16d COMMON @ 24" OC	FACE NAIL
BUILT-UP GIRDER AND BEAMS	20d COMMON @ 32" OC	FACE NAIL AT TOP AND BOT STAGGERED ON OPPOSITE SIDES
	(2) - 20d COMMON	FACE NAIL AT ENDS AND AT EACH SPLICE
2" PLANKS	16d COMMON	AT EACH BEARING
COLLAR TIE TO RAFTER	(3) - 10d COMMON	FACE NAIL
JACK RAFTER TO HIP	(3) - 10d COMMON	TOE NAIL
	(2) - 16d COMMON	FACE NAIL
ROOF RAFTER TO 2-BY RIDGE BEAM	(2) - 16d COMMON	FACE OR TOE NAIL
JOIST TO BAND JOIST	(3) - 16d COMMON	FACE NAIL

NOTES:
1. USE NAILING SHOWN UNLESS NOTED OTHERWISE ELSEWHERE IN THESE DRAWINGS.
2. WHERE NAILING SHOWN DIFFERS FROM OTHER NAILING REQUIREMENTS IN THESE DRAWINGS OR NAILING REQUIREMENTS IN THE BUILDING CODE, USE MORE STRINGENT REQUIREMENT.

12 TYP WOOD COL PENETRATION DETAIL

1" = 1'-0"



13 TYP WALL STUD PENETRATION DETAILS

1" = 1'-0"

NOTES:
1. THIS DIAGRAM IS TO BE USED IN CONJUNCTION WITH ALL OTHER TYPICAL DETAILS. STRAPPING REQUIREMENTS SHOWN IN THIS DETAIL APPLY TO ALL EXTERIOR WALLS AND INTERIOR WALLS WITH ROOF TRUSS/JOIST BEARING.
2. UNLESS NOTED OTHERWISE, NAILING SHALL CONFORM TO IBC TABLE 2304.9.1.
3. HEADER MAY BE LOCATED DIRECTLY BENEATH WALL DOUBLE TOP PLATE AT CONTRACTOR'S OPTION. PROVIDE WINDOW SILL STUDS AT TOP OF OPENING IF THIS OPTION IS CHOSEN.
4. KING AND JACK STUDS PER PLAN NOTES AND HEADER SCHEDULE, NAILED TOGETHER PER BUNDLED STUD SCHEDULE.
5. SHEATHING NAILING REQUIREMENTS PER SHEAR WALL SCHEDULE. ALL EXTERIOR WALLS, TENENT WALLS, AND BREEZEWAY WALLS ARE CONSIDERED PERFORATED SHEARWALLS, AND SHALL BE CONSTRUCTED AS SHEARWALL TYPE SW6, UNO.
6. LOCATE HOLD DOWNS AS CLOSE TO THE END OF THE SHEAR WALL AS POSSIBLE. NOTIFY ENGINEER IF LOCATED MORE THAN 10 INCHES FROM EDGE OF WALL.
7. ANCHOR BOLT LAYOUT STARTS 4" MIN, 12" MAX FROM EACH END OF THE CONCRETE WALL WITH 2 BOLTS, MINIMUM. PER WALL, 7" EMBED HOLD DOWN ANCHORS MAY BE COUNTED AS ANCHOR BOLTS.
8. SEE TYPICAL STRUCTURAL WALL INTERSECTION DETAIL FOR WALL CORNERS AND INTERSECTIONS.
9. TYP TOP PLATE STRAP, TYP FLR-FLR STRAP, & TYP SILL PLATE STRAP MUST BE INSTALLED ON SAME STUD LINE FOR FULL HT OF BUILDING.
10. NUMBER OF KING STUDS SHALL BE THE GREATER OF THE SHEAR WALL END POST REQUIREMENTS PER THE SHEAR WALL SCHEDULE OR THE TYPICAL REQUIREMENTS SHOWN IN THIS DETAIL.
11. WOOD TRUSS SHOWN. SOLID SAWN OR TJI SIMILAR.
12. AT INTERIOR BEARING WALLS, PROVIDE THREADED ROD CONNECTOR BETWEEN HOLD DOWNS ABOVE AND BELOW FLR PER SCHED.

14 TYPICAL WOOD JOIST PENETRATION

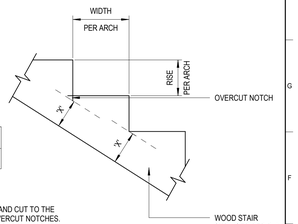
1" = 1'-0"

TYPICAL EXTERIOR WALL AND INTERIOR BEARING WALL STRAPPING	
LOCATION	FASTENER
TYP TOP PLATE STRAP AT ROOF LEVEL (NOTE 4)	SPH6 OR SPH6R @ 32" OC
TYP FLR-FLR STRAP AT INTERIOR WALLS W/ ROOF TRUSS BEARING (REQUIRED AT TOP FLOOR ONLY)	DTT2Z ABOVE & BELOW FLR @ 32" OC CONNECTED W/ 1/2" DIA THREADED ROD BETWEEN FLOORS
TYP FLR-FLR STRAP AT EXTERIOR WALLS (REQUIRED AT TOP FLOOR ONLY)	CS18 STRAP @ 32" ON CENTER W/ (9)-10d NAILS EA END, 11" END LENGTH
TYP SILL PLATE STRAP TO STUDS AT LOWEST LEVEL (NOTE 4)	RSP4 @ 32" OC
SILL PLATE TO FOUNDATION AT EXTERIOR & INTERIOR LOAD BEARING WALLS (NOTES 2,3)	5/8" DIA BOLT @ 48" OC, MAX (7" EMBED)

NOTES:
1. ALL CONNECTORS LISTED ARE SIMPSON STRONG-TIE. STRUCTURAL CONNECTORS WITH EQUIVALENT OR GREATER LOAD CAPACITIES MAY BE USED AT CONTRACTORS OPTION. ALTERNATE CONNECTORS MUST BE SUBMITTED TO EOR FOR APPROVAL. SCREW & NAIL SIZE AND NUMBER SHALL BE IN ACCORDANCE WITH MANUFACTURER'S CATALOG.
2. ANCHOR BOLTS SHALL BE CAST-IN-PLACE, ADHESIVE, OR SCREW ANCHOR TYPE AND EMBEDMENT SHALL BE MEASURED TO THE TOP SIDE OF THE EMBEDDED NUT. LOCATE ANCHOR BOLTS WITHIN 8" OF ENDS OF WALLS.
3. ALIGN TOP PLATE, FLR-FLR, AND SILL PLATE STRAPS SO THAT THEY EACH FALL ON THE SAME STUD AT TOP & BOTTOM, TYP
4. UNLESS OTHERWISE NOTED ON PLANS OR IN DETAILS USE FASTENERS SHOWN IN SCHEDULE WHERE CONNECTION IS NOT SPECIFIED.

15 TYP NOTCH LIMITATIONS FOR SAWN LUMBER

3/4" = 1'-0"

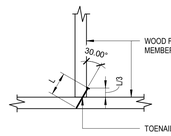


WOOD STRINGER SIZE	MINIMUM EFFECTIVE DEPTH, 'X'
2X12	5 1/2"

NOTES:
1. DRILL 1/4" HOLE AT EACH NOTCH CORNER AND CUT TO THE HOLE. CARE SHOULD BE TAKEN NOT TO OVERCUT NOTCHES.
2. IF NOTCHES ARE OVERCUT, EFFECTIVE DEPTH SHALL BE MEASURED PERPENDICULAR FROM BOTTOM FACE OF STRINGER TO EDGE OF NOTCH. WHERE MINIMUM EFFECTIVE DEPTH LISTED IS NOT OBTAINED, STRINGER SHALL BE REPLACED.

19 TYP EXTERIOR & BEARING WALL STRAPPING

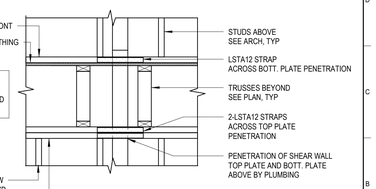
3/4" = 1'-0"



NOTES:
1. TOE-NAILS SHALL BE DRIVEN AT AN ANGLE OF APPROXIMATELY 30 DEGREES WITH THE MEMBER AND STARTED APPROXIMATELY 1/3 THE LENGTH OF THE NAIL FROM THE MEMBER END.

20 TYPICAL CUT WOOD STRINGER

1" = 1'-0"



NOTE: THIS DETAIL APPLIES TO SHEAR WALLS AND BEARING WALLS

NOTES:
1. WALL SHEATHING NOT SHOWN FOR CLARITY
2. PENETRATIONS NOT TO EXCEED 6" ALONG LENGTH OF PLATE
3. MAX ONE PENETRATION EVERY 4'-0" OR TWO PENETRATIONS PER SHEAR WALL, WHICHEVER IS MORE RESTRICTIVE.

21 TYPICAL NAILING SCHEDULE

3/4" = 1'-0"

22 TYPICAL MULTI-STORY STRUCTURAL WOOD STUD WALL ELEVATION

1/2" = 1'-0"

24 TYPICAL TOE-NAIL CONNECTION

1 1/2" = 1'-0"

25 TYPICAL WALL PLATE PENETRATION

3/4" = 1'-0"

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MHM

McCarty Holsaple McCarty, Inc.
550 W. Main St., Suite 300
Knoxville, TN 37902
t 865.544.2000
www.mhminc.com

Consultants:

CIVIL ENGINEER:
HUDDLESTON-STEELE ENGINEERING INC.
2112 N.W. BROAD ST.
MURFREESBORO, TN 37129
615.893.4084

LANDSCAPE ARCHITECT:
RAGAN SMITH
100 E. VINE ST., STE 200
MURFREESBORO, TN 37130
615.546.6050

STRUCTURAL ENGINEER:
HAINES STRUCTURAL GROUP
800 S. GAY ST., STE 1750
KNOXVILLE TN, 37929
865.329.9920

MECHANICAL & PLUMBING ENGINEER:
FACILITY SYSTEMS CONSULTANTS
713 S. CENTRAL ST., STE 101
KNOXVILLE TN, 37902
865.246.0164

ELECTRICAL ENGINEER:
FACILITY SYSTEMS CONSULTANTS
713 S. CENTRAL ST., STE 101
KNOXVILLE TN, 37902
865.246.0164

Project Information:

21026

MHA Parkside Housing
520 EAST CASTLE STREET,
MURFREESBORO, TN 37130

Seal:

Consultant:

HAINES STRUCTURAL GROUP
800 S. GAY STREET, STE 1750 KNOXVILLE, TN 37929
(865) 329-9920 | WWW.HAINES-SG.COM
project no. 21187

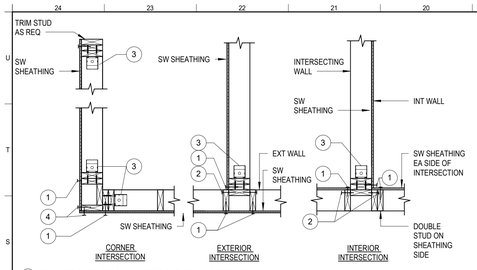
#	ISSUE	DATE
1	Revision 01 - City Comments Response	8/23/2022

Issue Date:	04/04/2022
PIC	RAH
PM	GRG
PA	G. TAYLOR
Drawn By:	CWR
Checked By:	GRG

Sheet Description:

S-005

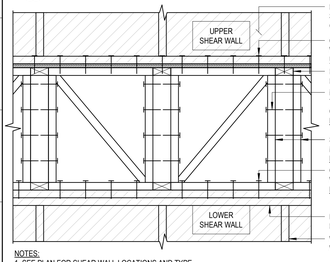
TYPICAL WOOD DETAILS



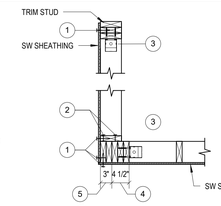
1. PLYWOOD PANEL EDGE NAILING PER SHEAR WALL SCHEDULE
2. NAILING TO MATCH SHEAR WALL SCHEDULE SPACING
3. HOLD DOWN AND END POST STUDS PER SHEARWALL SCHEDULE AND PLANS.
4. NAIL SHEATHING TO TRIM STUDS W/ 8d NAILS @ 12" OC, TYP

1 TYPICAL WALL INTERSECTION

3/4" = 1'-0"



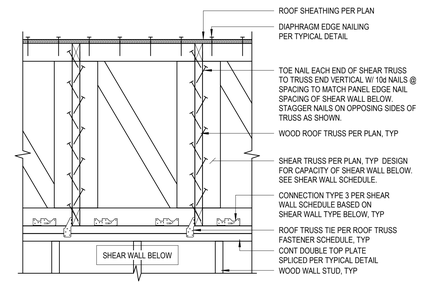
NOTES:
1. SEE PLAN FOR SHEAR WALL LOCATIONS AND TYPE
2. SEE SHEAR WALL SCHEDULE FOR CONNECTION TYPES AND CAPACITY

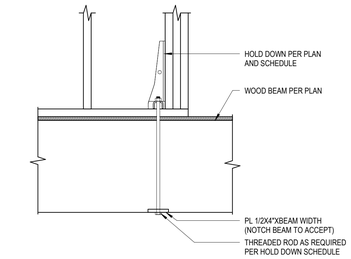


1. PLYWOOD PANEL EDGE NAILING PER SHEAR WALL SCHEDULE
2. 10d NAILS TO MATCH SHEAR WALL SCHEDULE SPACING
3. PROVIDE SINGLE HOLD DOWN PER SHEARWALL SCHEDULE AND PLAN. LARGER HOLD DOWN SHALL CONTROL AT CORNER.
4. SHARED END POST PER SCHEDULE. FASTEN END POST STUDS TOGETHER PER BUNDLED STUD SCHEDULE.
5. SOLID BLOCKING AT WALL CORNER AS SHOWN. FASTEN BLOCKING TO END POST PER BUNDLED STUD SCHEDULE.

2 ALTERNATE SHEAR WALL INTERSECTION

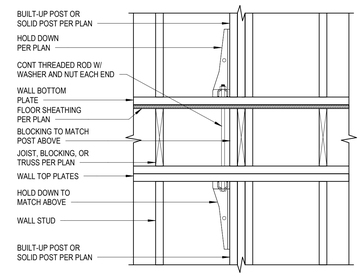
3/4" = 1'-0"





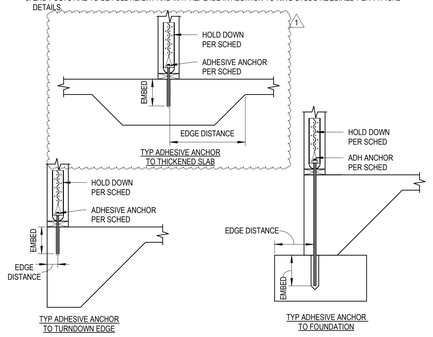
3 TYP HOLD DOWN ANCHORAGE TO WOOD BM

1" = 1'-0"



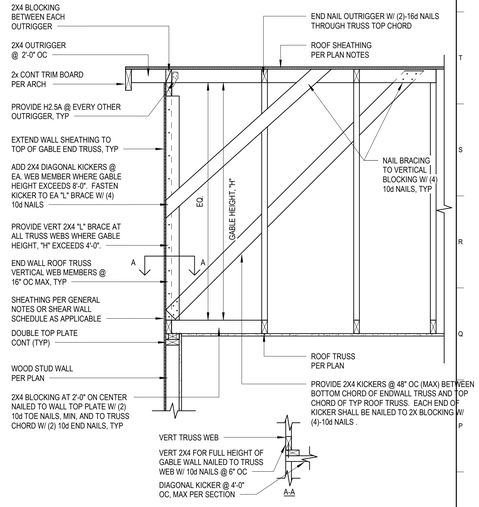
HOLD DOWN SCHEDULE, ANCHOR BOLT TYPES AND INSTALLATION CRITERIA									
HOLD DOWN MARK		WOOD POST AND CONNECTION		HOLD DOWN CAPACITY	ANCHOR SIZE	ADHESIVE ANCHOR TO TURNDOWN EDGE		ADHESIVE ANCHOR TO FND	
MARK	HOLD DOWN TYPE	HOLD DOWN WOOD POST (5)	WOOD FASTENERS	DESIGN FORCE	DIAMETER (IN)	EMBED (IN)	EDGE DISTANCE (IN)	EMBED (IN)	EDGE DISTANCE (IN)
A	HDU2-SDS2.5	(2) 2x	6-SDS 1/4x2.5	2,215	5/8	6	2-3/4	-	-
B	HDU4-SDS2.5	(2) 2x	10-SDS 1/4x2.5	3,285	5/8	9	2-3/4	6"	12"
C	HDU5-SDS2.5	(3) 2x	14-SDS 1/4x2.5	4,065	5/8	12	2-3/4	6"	12"
D	HDU8-SDS2.5	(3) 2x	20-SDS 1/4x2.5	5,665	7/8	14	2-3/4	9"	12"
E	HDU11-SDS2.5	(4) 2x	30-SDS 1/4x2.5	6,865	1	-	-	9"	12"

NOTES:
1. INSTALL HOLD DOWNS PER MANUFACTURER'S SPECIFICATIONS AND ICC REPORTS. INFORMATION TAKEN FROM THE SIMPSON C-2015 CATALOG.
2. THE CONTRACTOR SHALL MATCH THE WIDTH OF THE STUD WALLS SHOWN ON THE ARCH DRAWINGS. MULTIPLE STUDS SHALL BE NAILED TOGETHER PER TYPICAL BUNDLED STUD SCHEDULE.
3. SEE SHEAR WALL SCHEDULE DETAIL FOR SHEATHING EDGE NAILING REQUIREMENTS AT HOLD DOWN POSTS.
4. THIS SCHEDULE ASSUMES 4,000 PSI CONCRETE OR BETTER.
5. HOLD DOWN WOOD POSTS ABOVE ARE MINIMUM. SEE PLAN FOR ADDITIONAL POSTS.
6. END POSTS ARE TO BE FULL HEIGHT AND MAY REPLACE IN ADDITION TO KING STUDS REQUIRED PER TYPICAL DETAILS.



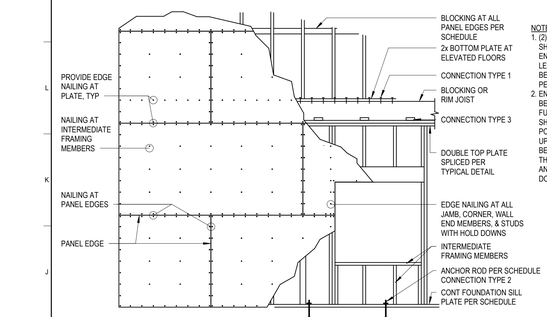
9 HOLD DOWN SCHEDULE

3/4" = 1'-0"



10 GABLE BRACING DETAIL

3/4" = 1'-0"



6 TYP SHEAR BOX TRUSSES @ FLOOR

1" = 1'-0"

NOTES:
1. (2) FLR-FLR HOLD DOWNS SHALL BE USED AT EACH END POST AT ALL LEVELS ABOVE AND BELOW FLOOR PLATE PER TYPICAL DETAIL.
2. END POST STUDS SHALL BE ALIGNED FOR THE FULL HEIGHT OF THE SHEAR WALL. IF END POSTS DO NOT ALIGN, UPPER END POSTS MUST BE CARRIED DOWN TO THE FOUNDATION AND ANCHORED PER HOLD DOWN SCHEDULE.

VALID FOR DIMENSIONAL LUMBER PROJECT	SPRUCE PINE FIR STUD SHEAR WALL SCHEDULE				(ALL VALUES BASED ON 2012 IBC, ASD METHODS)			
	FRAMING REQUIREMENTS		NAILING REQUIREMENTS		WALL BOTTOM PLATE CONNECTION		CONN TO TOP PLATE	
SHEAR WALL TYPE	SHEATHING (NOTES 1,2)	FDN SILL PLATE, WALL STUDS OCCURRING AT ABUTTING PANEL EDGES, & BLOCKING (NOTES 4,5,6)	PANEL EDGES (NOTES 7,8)	INTERMEDIATE FRAMING MEMBERS	SILL TO WOOD FRAMING BELOW (CONNECTION TYPE 1)	SILL TO CONCRETE BELOW (CONNECTION TYPE 2) (NOTES 9,10)	WALL TOP PLATE TO FRAMING ABOVE (CONNECTION TYPE 3) (NOTE 11)	CAPACITY (PLF)
SW6	7/16" SHEATHING 1 SIDE	2x	8d @ 6" OC	8d @ 12" OC	16d @ 8" OC	5/8" Ø x 7" EMBED AB @ 48" OC	CLIPS @ 24" OC	239
SW4	7/16" SHEATHING 1 SIDE	2x	8d @ 4" OC	8d @ 12" OC	16d @ 6" OC	5/8" Ø x 7" EMBED AB @ 32" OC	CLIPS @ 16" OC	350
SW3	7/16" SHEATHING 1 SIDE	2x	8d @ 3" OC	8d @ 12" OC	16d @ 4" OC	5/8" Ø x 7" EMBED AB @ 32" OC	CLIPS @ 12" OC	451
SW33	7/16" SHEATHING 2 SIDES (NOTE 3)	2x	8d @ 3" OC	8d @ 12" OC	(2) ROWS 16d @ 4" OC	5/8" Ø x 7" EMBED AB @ 16" OC	CLIPS @ 12" OC (2) ROWS	902
SW66	7/16" SHEATHING 2 SIDES (NOTE 3)	2x	8d @ 6" OC	8d @ 12" OC	(2) ROWS 16d @ 8" OC	5/8" Ø x 7" EMBED AB @ 16" OC	CLIPS @ 24" OC (2) ROWS	478

NOTES:
1. SHEATHING TO BE APPLIED WITH THE LONG PANEL DIMENSION PERPENDICULAR TO WALL STUDS.
2. USE 15/32" SHEATHING IF PANELS ARE INSTALLED WITH LONG DIMENSION PARALLEL TO WALL STUDS.
3. PANEL JOINTS ON OPPOSITE SIDES OF THE WALL SHALL NOT OCCUR AT THE SAME FRAMING MEMBER.
4. IN LIEU OF 3x MEMBERS, DOUBLE 2x MEMBERS MAY BE USED WHEN NAILED TOGETHER PER 'WALL BOTTOM PLATE TO WOOD FRAMING BELOW.
5. WALL STUDS NOT OCCURING AT ABUTTING PANEL EDGES MAY BE 2x.
6. WALL BOTTOM PLATES OCCURING ABOVE WOOD FRAMING MAY BE 2x.
7. STAGGER NAILS AT ABUTTING PANEL EDGES.
8. INSTALL BLOCKING AT PANEL EDGES NOT OCCURRING AT STUDS OR PLATES.
9. PROVIDE SIMPSON BPS TYPE BEARING PLATES OR EQUIVALENT ON ALL ANCHOR BOLTS TO CONCRETE. PROVIDE BPS5/8-3 AT 2x4 WALLS AND BPS5/8-6 AT 2x6 WALLS. EDGE OF BPS PLATE SHALL BE WITHIN 1/2" OF THE EDGE OF THE SILL PLATE. PROVIDE STANDARD CUT WASHER BETWEEN NUT AND BPS.
10. ANCHOR BOLTS SHALL BE CAST-IN-PLACE, SCREW ANCHORS, OR ADHESIVE ANCHORS AND EMBEDMENT SHALL BE AS NOTED. LOCATE ANCHOR BOLTS WITHIN 8" OF ENDS OF WALLS.
11. FRAMING CLIPS SHALL BE SIMPSON A35, SIMPSON LTP5, OR APPROVED EQUAL. NO CLIPS NEEDED AT EXTERIOR WALLS AND WHERE SHEATHING IS CONTINOUS BETWEEN LEVELS.
12. DO NOT OVER DRIVE NAILS. REFER TO GENERAL NOTES.

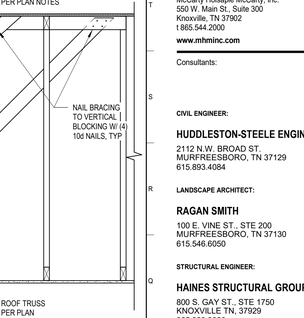
11 SHEAR WALL SCHEDULE - SPRUCE-PINE-FIR

3/4" = 1'-0"

SHEAR WALL MARK SCHEDULE					
PLAN MARK	FLOOR LEVEL	SHEAR WALL TYPE	HOLD DOWN @ FND	FLR-FLR HOLD DOWNS	END POST STUDS
SW-1	2ND FLOOR	SW6	N/A	A	2
	GROUND FLOOR	SW6	B	N/A	2
SW-2	2ND FLOOR	SW6	N/A	A	2
	GROUND FLOOR	SW4	C	N/A	3
SW-3	3RD FLOOR	SW6	N/A	A	2
	2ND FLOOR	SW4	N/A	A	2
	GROUND FLOOR	SW4	C	N/A	3
SW-4	3RD FLOOR	SW6	N/A	A	2
	2ND FLOOR	SW4	N/A	A	2
	GROUND FLOOR	SW33	C	N/A	2
SW-5	3RD FLOOR	SW6	N/A	A	2
	2ND FLOOR	SW4	N/A	B	2
	GROUND FLOOR	SW66	D	N/A	3
SW-6	3RD FLOOR	SW6	N/A	A	2
	2ND FLOOR	SW6	N/A	A	2
	GROUND FLOOR	SW4	B	N/A	2
SW-7	3RD FLOOR	SW6	N/A	A	2
	2ND FLOOR	SW4	N/A	B	3
	GROUND FLOOR	SW4	D	N/A	3
SW-8	2ND FLOOR	SW6	N/A	B	3
	GROUND FLOOR	SW4	E	N/A	4
SW-9	3RD FLOOR	SW6	N/A	A	2

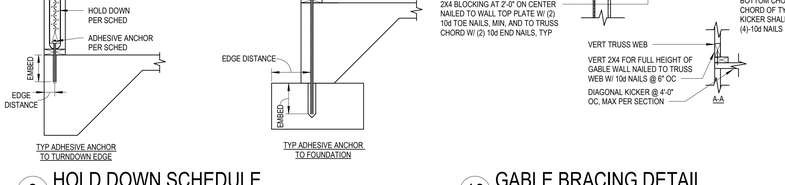
ROOF TRUSS FASTENER SCHEDULE										
UPLIFT	MIN BUNDLED STUDS BELOW BEARING	MIN # OF TRUSS PLIES	TRUSS TO TOP PLATE TIE	TRUSS ANCHORAGE TYPE	TIE TO STUDS BELOW	FLR-FLR TIE	# FLOORS REQUIRED (NOTE 8)	TIE TO FOUNDATION	FASTENERS TO TRUSS	FASTENERS TO WALL TOP PLATES	FASTENERS TO STUDS BELOW	FOUNDATION ANCHOR (NOTE 7)
<600#	NOT REQUIRED	1	H2.5A	1	NOT REQUIRED	NOT REQUIRED	0	NOT REQUIRED	(5) - 8d	(5) - 8d	NOT REQUIRED	NOT REQUIRED
<1200#	NOT REQUIRED	1	(2)-H2.5A (NOTE 2)	2	SPH6 EACH SIDE OF BRG	NOT REQUIRED	0	NOT REQUIRED	(10) - 8d	(10) - 8d	NOT REQUIRED	NOT REQUIRED
<1340#	NOT REQUIRED	1	H10A	2	SPH6 EACH SIDE OF BRG	NOT REQUIRED	0	NOT REQUIRED	(9) - 10d X 1 1/2"	(9) - 10d X 1 1/2"	NOT REQUIRED	NOT REQUIRED
<2020#	2	2	(2)-H10S (NOTE 2)	3	TIE SPECIFIED CONNECTS	HDU2-SDS2.5 (T&B)	1	HDU2-SDS2.5	(8)-8d X 1 1/2" PER TIE	(8)-8d X 1 1/2" PER TIE	(8) - 8d PER TIE	(1) - 5/8" Ø X 8" EMBED
<3965#	2	2	MGT	3	HDU4-SDS2.5	HDU4-SDS2.5 (T&B)	2	HDU4-SDS2.5	(22)-10d	(22)-10d	(10) - SDS 1/4" x 2 1/2"	(1) - 5/8" Ø X 8" EMBED
<4940#	2	2	VGT	3	HDU5-SDS2.5	HDU5-SDS2.5 (T&B)	2	HDU5-SDS2.5	(16)-SDS 1/4" x 3"	(1) - 5/8" Ø BOLT (NOTE 3)	(14) - SDS 1/4" x 2 1/2"	(1) - 5/8" Ø X 8" EMBED
<9250#	3	2	HGT (NOTE 1)	3	(2) HDU5-SDS2.5	(2) HDU5-SDS2.5 (T&B)	2	(2) HDU5-SDS2.5	(16)-10d	(2) - 5/8" Ø BOLTS (NOTE 3)	(14) - SDS 1/4" x 2 1/2" PER TIE	(2) - 5/8" Ø X 8" EMBED

NOTES:
1. PROVIDE APPLICABLE HGT FASTENER ACCORDING TO NUMBER OF TRUSS PLIES AND STAGGER HDU-5 HOLD DOWNS TO AVOID SCREW INTERFERENCE ON EACH SIDE OF BUNDLED STUD POST.
2. WHERE TWO FASTENERS ARE CALLED FOR, INSTALL ONE ON EACH SIDE OF WALL TOP PLATES.
3. BOLTS CONNECT TIE ABOVE PLATES TO TIE BELOW PLATES. USE SPECIFIED BOLT TO CONNECT FLR-FLR TIES.
4. ALL CONNECTORS LISTED ARE SIMPSON STRONG-TIE. STRUCTURAL CONNECTORS WITH EQUIVALENT OR GREATER LOAD CAPACITIES MAY BE USED AT CONTRACTORS OPTION. ALTERNATE CONNECTORS MUST BE SUBMITTED TO EOR FOR APPROVAL.
5. SCREW & NAIL SIZE AND NUMBER SHALL BE IN ACCORDANCE WITH MANUFACTURER'S CATALOG.
6. ROOF TRUSS CLIPS SHALL BE SELECTED TO PROVIDE THE UPLIFT RESISTANCE SHOWN ON THE ROOF TRUSS SHOP DRAWINGS AND CALCULATIONS.
7. ANCHORS TO FOUNDATION TO BE HILTI HY200 ADHESIVE ANCHORS WITH HILTI HAS-E RODS. WHERE DISTANCE FROM BOLT CENTERLINE TO EDGE OF CONCRETE IS LESS THAN 3 1/8" EMBEDMENT SHALL BE INTO THE FOOTING BELOW. AT LOCATIONS WITH AN ANCHOR ON EACH SIDE OF THE BUNDLED STUDS, THE EMBEDMENT SHALL BE INTO THE FOOTING BELOW.
8. FLR-FLR STRAPS SHALL BE UTILIZED ACROSS THE NUMBER OF FLOORS INDICATED. WHERE THE NUMBER OF FLOORS INDICATED EXCEEDS THE HEIGHT OF THE BUILDING, ANCHOR TO THE FOUNDATION PER THE SCHEDULE. WHERE THE BUILDING HEIGHT EXCEEDS THE NUMBER OF FLOORS INDICATED, THE FLR-FLR STRAPS MAY TO TERMINATED AFTER THE NUMBER OF FLOORS INDICATED IS SURPASSED, AND THE FOUNDATION ANCHOR MAY BE ELMINATED.



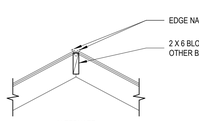
20 NON-BEARING WALL PARALLEL TO TRUSS

1" = 1'-0"



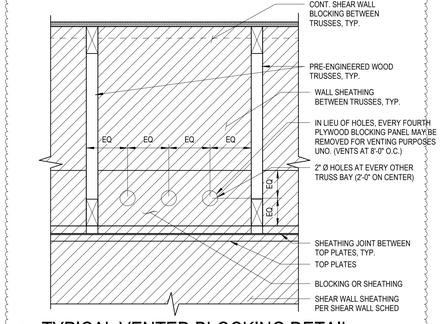
DEPTH	PANEL SIZE	A	B	C	D	E	F	G
10"	60"	4 1/2"	4 1/2"	11"	4 1/2"	16"	4"	7"
12"	60"	6 1/4"	6 1/4"	14"	6"	20"	5"	9"
14"	60"	8 1/4"	8 1/4"	17"	7"	22"	6"	11"
16"	60"	10 1/4"	9 1/2"	14"	9"	27"	6"	13"
18"	60"	12 1/4"	10 1/2"	14 1/2"	10 1/2"	26"	7"	15"
20"	60"	14"	11 1/2"	14 1/2"	12"	26"	8"	17"
22"	60"	16"	12 1/2"	15"	13"	30"	8"	19"
24"	60"	18"	13 1/2"	16"	14"	32"	8"	21"

NOTES:
1. MAXIMUM DUCT DIMENSIONS ARE BASED ON A TRUSS PLATE WIDTH OF 4 INCHES. LARGER PLATE WIDTHS MAY CAUSE A REDUCTION IN DUCT SIZES.
2. MAXIMUM DUCT DIMENSIONS DO NOT INCLUDE ALLOWANCE FOR DUCT INSULATION.
3. CHASE SIZES ARE MAXIMUM POSSIBLE FOR CENTERED OPENINGS.



21 TYPICAL RIDGE VENT AT PRE-FAB TRUSS

3/4" = 1'-0"

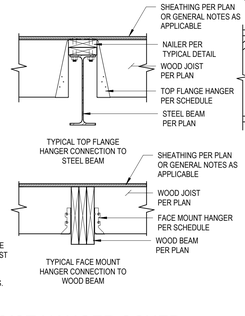


22 TYPICAL VENTED BLOCKING DETAIL

1 1/2" = 1'-0"

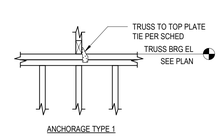
SOLID SAWN WOOD JOIST HANGER SCHEDULE		
LOCATION	JOIST SIZE	HANGER
WOOD JOIST TO STEEL BEAM: TOP FLANGE HANGERS	2X6	LB26
	(2)-2X6	WNP26-2
	2X8	LB28
	(2)-2X8	WNP28-2
	2X10	LB210AZ
	(2)-2X10	WNP210-2
	2X12	LB212AZ
	(2)-2X12	WNP212-2
	(3)-2X12	HU212-3TF
WOOD JOIST TO WOOD GIRDER: FACEMOUNT HANGERS	2X6	LUS26
	(2)-2X6	LUS26-2
	2X8	LUS28
	(2)-2X8	LUS28-2
	2X10	LUS210
	(2)-2X10	LUS210-2
	2X12	LUS210
	(2)-2X12	LUS210-2
	(3)-2X12	LUS210-3

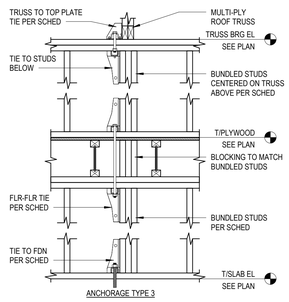
NOTES:
1. ALL CONNECTORS LISTED ARE SIMPSON STRONG-TIE, UNO. OTHER MANUFACTURERS MAY BE SUBSTITUTED THAT HAVE EQUAL OR GREATER CAPACITY.
2. FASTENER SIZE AND NUMBER SHALL BE IN ACCORDANCE WITH MANUFACTURER'S CATALOG. FASTEN FOR HIGHEST LOAD CAPACITY GIVEN IN CATALOG.
3. USE FASTENERS SHOWN IN SCHEDULE WHERE CONNECTION IS NOT SPECIFIED ON PLAN OR IN DETAILS.



23 TYP SOLID SAWN JOIST HANGER SCHED

1" = 1'-0"





24 TYPICAL DUCT OPENING SIZES FOR FLOOR TRUSSES

3/4" = 1'-0"

MHM

McCarty Holsaple McCarty, Inc.
550 W. Main St., Suite 300
Knoxville, TN 37902
t 865.544.2000
www.mhminc.com

Consultants:

CIVIL ENGINEER:
HUDDLESTON-STEELE ENGINEERING INC.
2112 N.W. BROAD ST.
MURFREESBORO, TN 37129
615.893.4084

LANDSCAPE ARCHITECT:
RAGAN SMITH
100 E. VINE ST., STE 200
MURFREESBORO, TN 37130
615.546.6050

STRUCTURAL ENGINEER:
HAINES STRUCTURAL GROUP
800 S. GAY ST., STE 1750
KNOXVILLE TN, 37929
865.329.9920

MECHANICAL & PLUMBING ENGINEER:
FACILITY SYSTEMS CONSULTANTS
713 S. CENTRAL ST., STE 101
KNOXVILLE TN, 37902
865.246.0164

ELECTRICAL ENGINEER:
FACILITY SYSTEMS CONSULTANTS
713 S. CENTRAL ST., STE 101
KNOXVILLE TN, 37902
865.246.0164

Project Information:

21026

MHA Parkside Housing

520 EAST CASTLE STREET,
MURFREESBORO, TN 37130

Seal:

Consultant:

HAINES STRUCTURAL GROUP
800 S. GAY STREET, STE 1750 KNOXVILLE, TN 37929
(865) 329-9920 | WWW.HAINES-SG.COM
project no. 21187

#	ISSUE	DATE
1	Revision 01 - City Comments Response	8/23/2022

Issue Date:	04/04/2022
PIC	RAH
PM	GRG
PA	G. TAYLOR
Drawn By:	CWR
Checked By:	GRG

Sheet Description:

S-006

TYPICAL WOOD DETAILS

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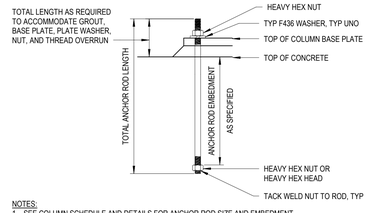


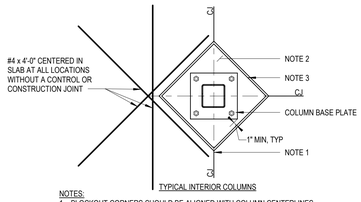
NOTES:
1. SEE COLUMN SCHEDULE AND DETAILS FOR ANCHOR ROD SIZE AND EMBEDMENT
2. UNLESS NOTED OTHERWISE, ALL ANCHOR ROD NUTS SHALL BE TIGHTENED TO A "SNUG TIGHT" CONDITION AS DEFINED BY AISC AFTER THE CONCRETE IS AT LEAST 14 DAYS OLD.
3. HOLE IN PLATE WASHER SHALL BE 1/16" LARGER THAN THE ROD DIAMETER.

1 TYPICAL COLUMN ANCHOR ROD
1 1/2" = 1'-0"

GROUT THICKNESS SCHEDULE	
MINIMUM BASE PLATE PLAN DIMENSION	MINIMUM GROUT THICKNESS
18" OR LESS	1"
19" TO 24"	1 1/2"
25" TO 30"	2"
31" TO 36"	2 1/2"
37" TO 42"	3"
43" TO 48"	3 1/2"
GREATER THAN 48"	REFER TO NOTE 2

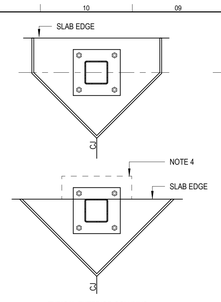
NOTES:
1. REFER TO SPECIFICATIONS AND GENERAL NOTES FOR GROUT REQUIREMENTS.
2. ADD 1/2" GROUT THICKNESS FOR EACH ADDITIONAL 12" OF MINIMUM PLATE DIMENSION.

2 TYPICAL GROUT THICKNESS SCHEDULE
3/4" = 1'-0"

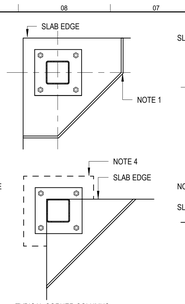


TYPICAL INTERIOR COLUMNS

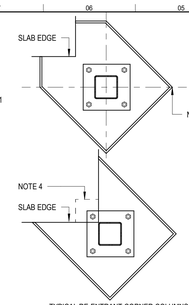
NOTES:
1. BLOCKOUT CORNERS SHOULD BE ALIGNED WITH COLUMN CENTERLINES.
2. INFILL COLUMN BLOCKOUTS W/ NONSHRINK GROUT, TYP
3. PROVIDE 1/4" MIN ISOLATION JOINT MATERIAL BETWEEN NONSHRINK GROUT AND BLOCKOUT, TYP.
4. WHERE BASEPLATE EXTENDS OUTSIDE OF SLAB EDGE, ENCASE IN NONSHRINK GROUT WITH A MINIMUM COVER OF 3" IN ALL DIRECTIONS. HEIGHT OF COVER NOT TO EXCEED 8" ABOVE FOUNDATION. ALTERNATIVELY, PAINT BELOW GRADE STEEL WITH BITUMASTIC PAINT.



TYPICAL EXTERIOR COLUMNS

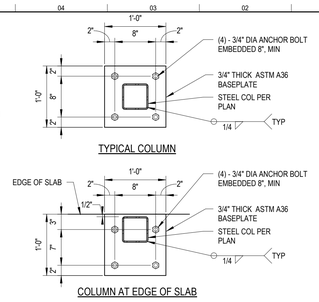


TYPICAL CORNER COLUMNS

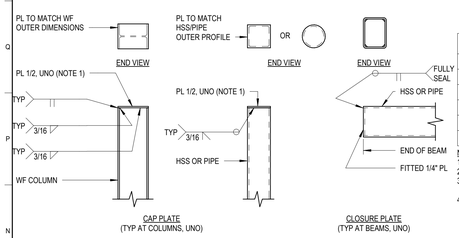


TYPICAL RE-ENTRANT CORNER COLUMNS

3 TYPICAL SLAB-ON-GRADE ISOLATION JOINTS
3/4" = 1'-0"



5 STEEL COLUMN BASE PLATES
1" = 1'-0"

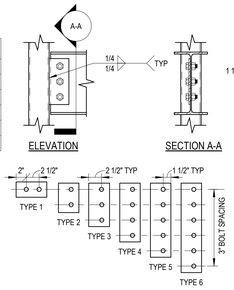


NOTES:
1. WHERE SLOPING BEAMS FRAME INTO TOP OF COLUMNS, SLOPE COLUMN CAP PLATES TO MATCH TOP OF BEAM, UNO.
2. ALL WELDS FINISHED FLUSH, UNO.
3. FLUSH FINISH REQUIREMENTS MAY BE WAIVED, SUBJECT TO ARCH AND ENGINEER WRITTEN APPROVAL.

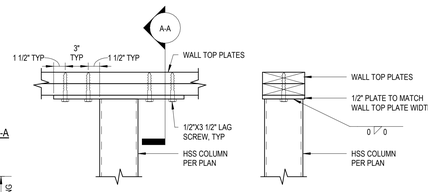
6 TYP COL/BEAM CAP AND CLOSURE PLATES
3/4" = 1'-0"

TYPE	CAPACITY	SINGLE SHEAR PLATE SIZE	# OF BOLTS	BEAM SIZE
1	10 KIPS	PL 1/2" x 6" x 3"	2	W8, C4, C6
2	30 KIPS	PL 3/8" x 4" x 5 1/2"	2	W8, W10, C8, C10
3	47 KIPS	PL 3/8" x 4" x 8 1/2"	3	W12, W14, C12
4	63 KIPS	PL 3/8" x 4" x 11 1/2"	4	W16, W18
5	79 KIPS	PL 3/8" x 4" x 1'- 2 1/2"	5	W21
6	95 KIPS	PL 3/8" x 4" x 1'- 5 1/2"	6	W24

NOTES:
1. ALL BOLTS SHALL BE 3/4" ASTM A325 BEARING TYPE BOLTS.
2. ALL HOLES SHALL BE STANDARD HOLES.
3. DO NOT COPE BEAMS AT STANDARD SHEAR TAB CONNECTIONS.
4. ALL CONNECTION CAPACITIES ARE LRFD FACTORED CAPACITIES BASED ON THE SMALLEST BEAM WEB THICKNESS OF EACH BEAM DEPTH.

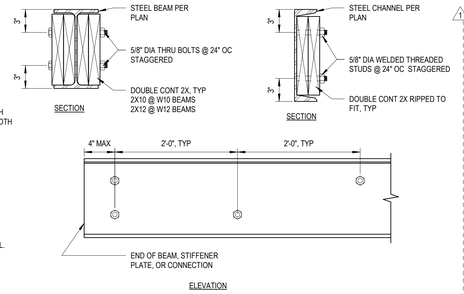


7 TYP SHEAR TAB CONNECTION SCHED
1" = 1'-0"

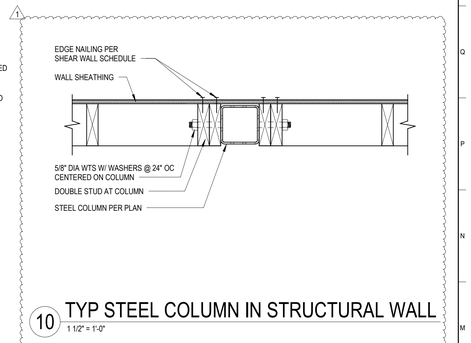


NOTES:
1. DETAIL APPLIES AT LOCATIONS WITHOUT BEAMS FRAMING INTO THE COLUMN AT THE PLATE ELEVATION.
2. WHERE BEAMS FRAME INTO COLUMN AT PLATE ELEVATION, PROVIDE CAP FITTED TO COLUMN PER TYPICAL DETAIL.
3. SEE TYPICAL MOMENT CONNECTION DETAIL FOR CAP PLATES AT MOMENT CONNECTIONS.

8 TYP STEEL COLUMN CAP AT WOOD PLATES
1 1/2" = 1'-0"



9 TYPICAL PADDED STEEL BEAM
1 1/2" = 1'-0"



10 TYP STEEL COLUMN IN STRUCTURAL WALL
1 1/2" = 1'-0"

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McCarty Holsaple McCarty, Inc.
550 W. Main St., Suite 300
Knoxville, TN 37902
t 865.544.2000
www.mhminc.com

Consultants:

CIVIL ENGINEER:
HUDDLESTON-STEELE ENGINEERING INC.
2112 N.W. BROAD ST.
MURFREESBORO, TN 37129
615.893.4084

LANDSCAPE ARCHITECT:
RAGAN SMITH
100 E. VINE ST., STE 200
MURFREESBORO, TN 37130
615.546.6050

STRUCTURAL ENGINEER:
HAINES STRUCTURAL GROUP
800 S. GAY ST., STE 1750
KNOXVILLE TN, 37929
865.329.9920

MECHANICAL & PLUMBING ENGINEER:
FACILITY SYSTEMS CONSULTANTS
713 S. CENTRAL ST., STE 101
KNOXVILLE TN, 37902
865.246.0164

ELECTRICAL ENGINEER:
FACILITY SYSTEMS CONSULTANTS
713 S. CENTRAL ST., STE 101
KNOXVILLE TN, 37902
865.246.0164

Project Information:

21026

MHA Parkside Housing
520 EAST CASTLE STREET,
MURFREESBORO, TN 37130

Seal:

Consultant:

HAINES STRUCTURAL GROUP
800 S. GAY STREET, STE 1750 KNOXVILLE, TN 37929
(865) 329-9920 | WWW.HAINES-SG.COM
project no. 21187

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1	Revision 01 - City Comments Response	8/23/2022

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TYPICAL STEEL DETAILS

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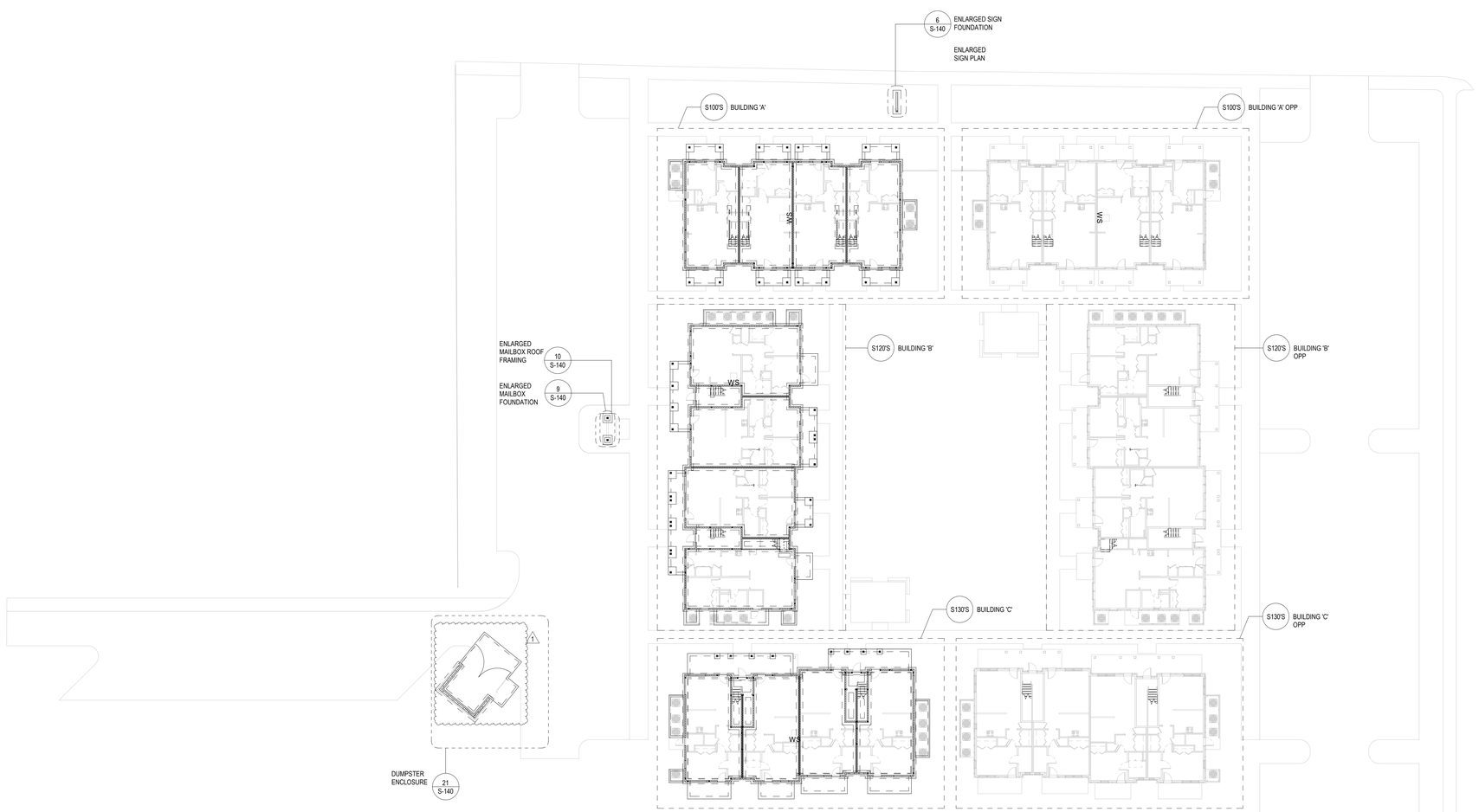

OVERALL FOUNDATION PLAN

1" = 20'-0"

9/22/2022 11:34:36 AM

OVERALL SITE PLAN

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McCarty Holsaple McCarty, Inc.
550 W. Main St., Suite 300
Knoxville, TN 37902
t 865.544.2000
www.mhminc.com

Consultants:

CIVIL ENGINEER:

HUDDLESTON-STEELE ENGINEERING INC.
2112 N.W. BROAD ST.
MURFREESBORO, TN 37129
615.893.4084

LANDSCAPE ARCHITECT:

RAGAN SMITH
100 E. VINE ST., STE 200
MURFREESBORO, TN 37130
615.546.6050

STRUCTURAL ENGINEER:

HAINES STRUCTURAL GROUP
800 S. GAY ST., STE 1750
KNOXVILLE TN, 37929
865.329.9920

MECHANICAL & PLUMBING ENGINEER:

FACILITY SYSTEMS CONSULTANTS
713 S. CENTRAL ST., STE 101
KNOXVILLE TN, 37902
865.246.0164

ELECTRICAL ENGINEER:

FACILITY SYSTEMS CONSULTANTS
713 S. CENTRAL ST., STE 101
KNOXVILLE TN, 37902
865.246.0164

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Seal:

Consultant:

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800 S. GAY STREET, STE 1750 KNOXVILLE, TN 37929
(865) 329-9920 | WWW.HAINES-SG.COM
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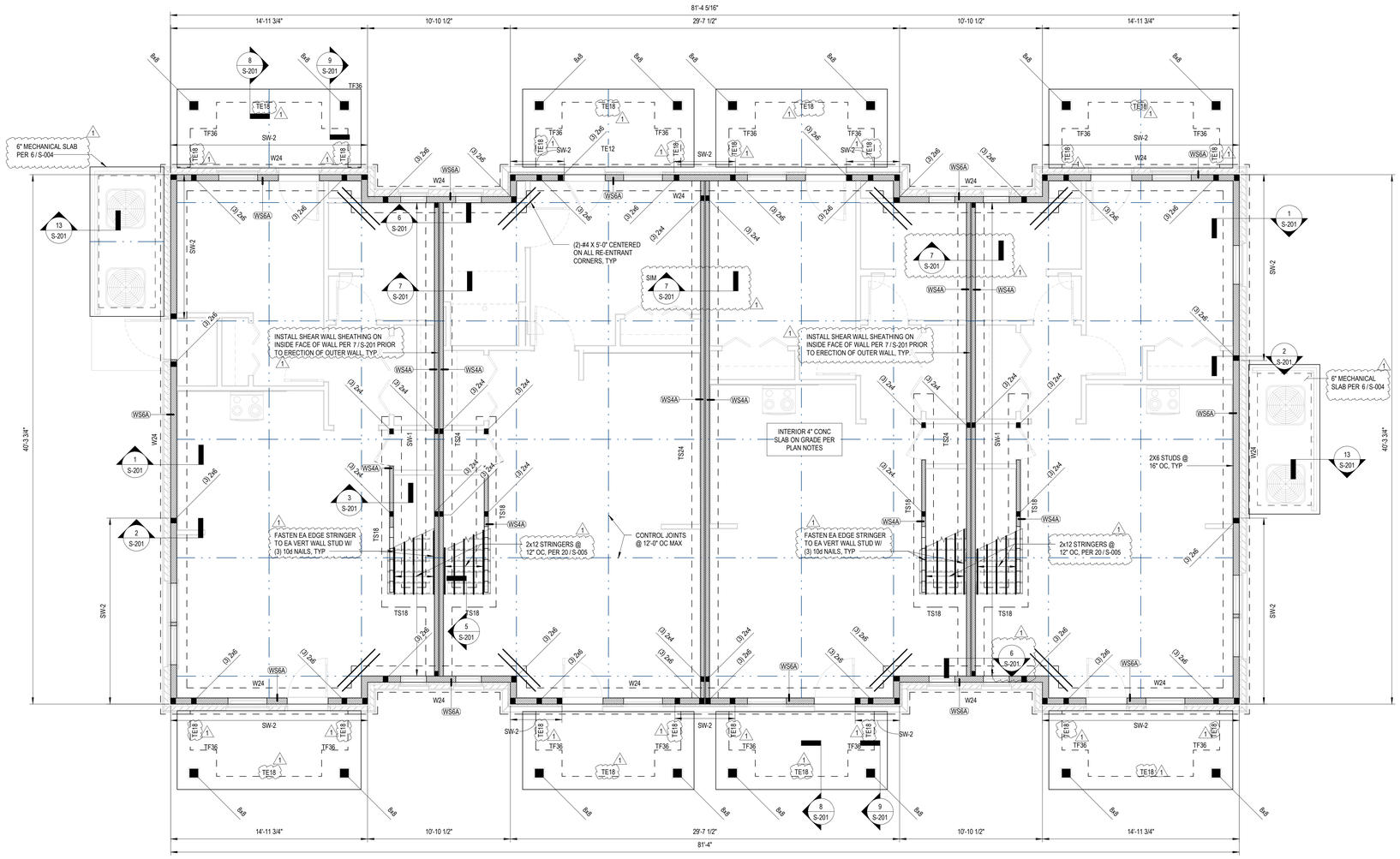

BUILDING A - FOUNDATION PLAN

1/4" = 1'-0"

COLUMN FOOTING SCHEDULE

MARK	LENGTH	WIDTH	DEPTH	REINFORCEMENT
F36	3'-0"	3'-0"	1'-0"	(4)-#5 EW BTM
F42	3'-6"	3'-6"	1'-0"	(5)-#5 EW BTM
TF24	2'-0"	2'-0"	1'-6"	(3)-#5 EW BTM
TF36	3'-0"	3'-0"	1'-6"	(4)-#5 EW BTM

WALL FOOTING SCHEDULE

MARK	WIDTH	DEPTH	REINFORCEMENT
TS18	1'-6"	1'-0"	(3)-#5 CONT W/ #5 X 1'-6" TRANS @ 1'-6" OC
TS24	2'-0"	1'-0"	(3)-#5 CONT W/ #5 X 1'-6" TRANS @ 1'-6" OC
TS30	2'-6"	1'-0"	(3)-#5 CONT W/ #5 X 1'-6" TRANS @ 1'-6" OC
W24	2'-0"	1'-0"	(3)-#5 CONT W/ #5 X 1'-6" TRANS @ 1'-6" OC
W30	2'-6"	1'-0"	(3)-#5 CONT W/ #5 X 1'-6" TRANS @ 1'-6" OC
W36	3'-0"	1'-0"	(4)-#5 CONT W/ #5 X 2'-6" TRANS @ 1'-6" OC

FOUNDATION PLAN NOTES

FOUNDATION PLAN NOTES:

1. ELEVATIONS ARE BASED ON A REFERENCE FLOOR ELEVATION OF 0'-0", UNO. TOP OF SLAB ON GRADE IS AT THE REFERENCE ELEVATION UNLESS NOTED OTHERWISE.
2. T/ INTERIOR FOOTING ELEVATION = -0'-8", TYP, UNO
3. T/ EXTERIOR FOOTING ELEVATION = -1'-4", TYP, UNO
4. SLAB ON GRADE IS 4 INCHES THICK AND REINFORCED WITH WWF 6X6 W2.1XW2.1. SLAB ON GRADE SHALL BE PLACED OVER A VAPOR BARRIER AND 4 INCHES (MIN) COMPACTED GRANULAR FILL IN ACCORDANCE WITH THE GEOTECHNICAL REPORT. SEE TYPICAL SLAB ON GRADE DETAILS FOR MORE INFORMATION.
5. EXTERIOR SLAB ON GRADE IS 4 INCHES THICK AND REINFORCED WITH WWF 6X6 W2.1XW2.1. SLAB ON GRADE SHALL BE PLACED OVER 4 INCHES (MIN) COMPACTED GRANULAR FILL SEE TYPICAL SLAB ON GRADE DETAILS FOR MORE INFORMATION.
6. ( ) INDICATES TOP OF FOOTING ELEVATION AT NON-TYPICAL LOCATIONS.
7. 'F60' INDICATES COLUMN OR ISOLATED SPREAD FOOTING MARK. SEE SCHEDULE FOR SIZE AND REINFORCEMENT.
8. 'W24' INDICATES WALL OR CONTINUOUS FOOTING MARK. SEE SCHEDULE FOR SIZE AND REINFORCEMENT.
9. 'TS24' & 'TF24' INDICATE THICKENED SLAB AREAS TO BE POURED MONOLITHICALLY WITH SLAB ON GRADE. SEE SCHEDULE FOR SIZE AND REINFORCEMENT.
10. 'TE' DENOTES TURN-DOWN SLAB EDGE. SEE TYPICAL DETAIL FOR SIZE AND REINFORCING.
11. 'P1' INDICATES REINFORCED CONCRETE PEDESTAL. SEE SCHEDULE FOR SIZE AND REINFORCEMENT. TOP OF PEDESTAL IS TO ALIGN WITH ADJACENT WALL UNLESS NOTED OTHERWISE.
12. FOR ELEVATIONS, WALL SECTIONS, AND DIMENSIONS NOT SHOWN, SEE ARCHITECTURAL DRAWINGS.
13. FOR SIDEWALKS, PAVING, AND SITE DETAILS AT THE BUILDING EXTERIOR, SEE ARCHITECTURAL AND CIVIL DRAWINGS.
14. 'SW-1' DENOTES MULTI-STORY WOOD SHEAR WALL. SEE S006 FOR SHEAR WALL SCHEDULE AND DETAILS.

MHM

McCarty Holsaple McCarty, Inc.
550 W. Main St., Suite 300
Knoxville, TN 37902
t 865.544.2000
www.mhminc.com

Consultants:

CIVIL ENGINEER:

HUDDLESTON-STEELE ENGINEERING INC.
2112 N.W. BROAD ST.
MURFREESBORO, TN 37129
615.893.4084

LANDSCAPE ARCHITECT:

RAGAN SMITH
100 E. VINE ST., STE 200
MURFREESBORO, TN 37130
615.546.6050

STRUCTURAL ENGINEER:

HAINES STRUCTURAL GROUP
800 S. GAY ST., STE 1750
KNOXVILLE TN, 37929
865.329.9920

MECHANICAL & PLUMBING ENGINEER:

FACILITY SYSTEMS CONSULTANTS
713 S. CENTRAL ST., STE 101
KNOXVILLE TN, 37902
865.246.0164

ELECTRICAL ENGINEER:

FACILITY SYSTEMS CONSULTANTS
713 S. CENTRAL ST., STE 101
KNOXVILLE TN, 37902
865.246.0164

Project Information:

21026

MHA Parkside Housing

520 EAST CASTLE STREET,
MURFREESBORO, TN 37130

Seal:

Consultant:

HAINES STRUCTURAL GROUP
800 S. GAY STREET, STE 1750 KNOXVILLE, TN 37929
(865) 329-9920 | WWW.HAINES-SG.COM
project no. 21187

#	ISSUE	DATE
1	Revision 01 - City Comments Response	8/23/2022

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PA	G. TAYLOR
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BUILDING A - FOUNDATION PLAN

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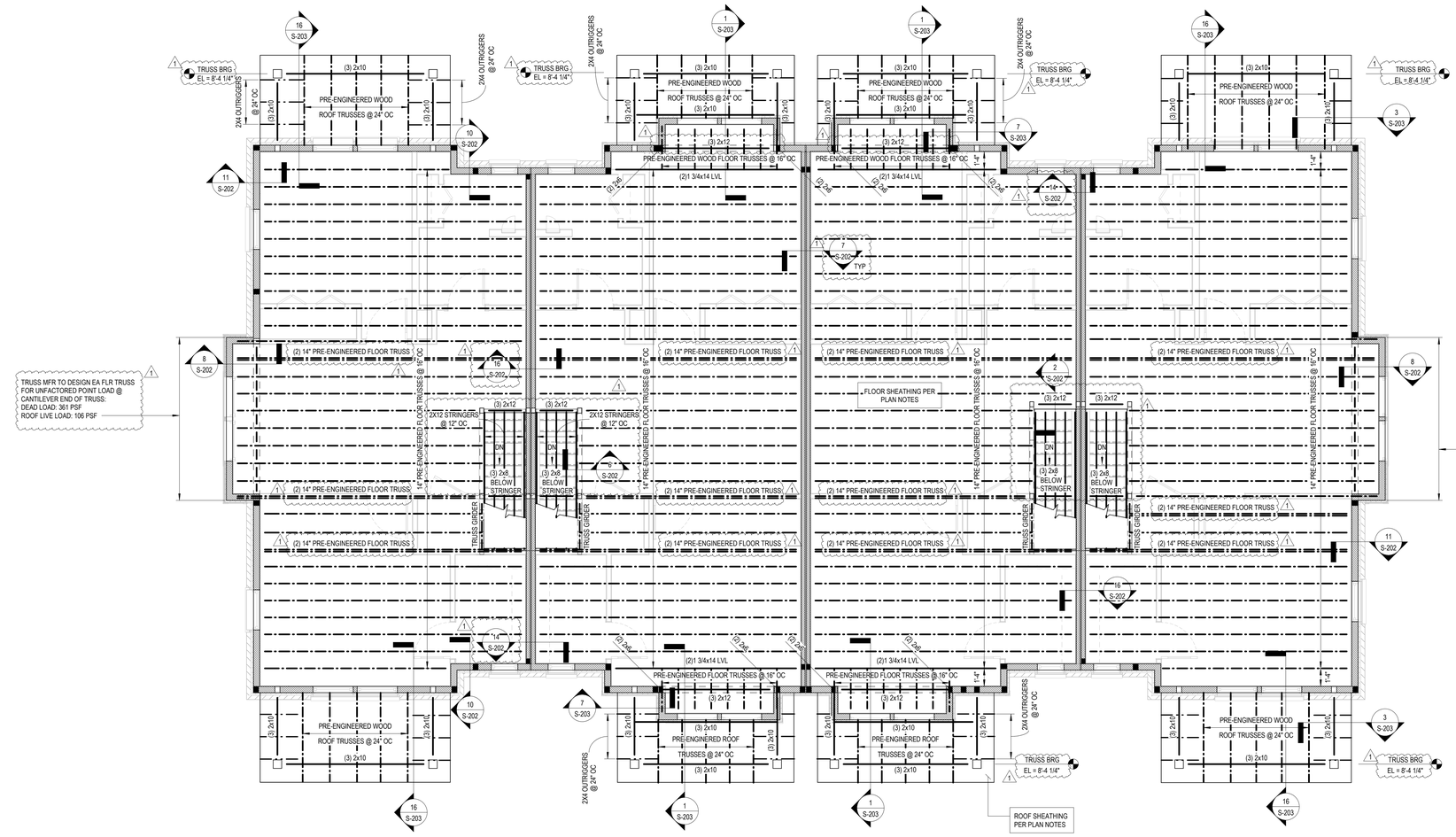

BUILDING A - LEVEL 2 FRAMING PLAN

1/4" = 1'-0"

FLOOR FRAMING PLAN NOTES:

1. ELEVATIONS ARE BASED ON A REFERENCE FLOOR ELEVATION OF 0'-0", UNO. TOP OF SLAB ON GRADE BELOW IS AT THE REFERENCE ELEVATION UNLESS NOTED OTHERWISE.
2. TRUSS BRG EL = 8'-10 5/8", UNO
3. T/SHEATHING ELEVATION AT SECOND LEVEL = 10'-1 1/4", TYP, UNO
4. WOOD FLOOR SHEATHING SHALL BE 23/32", UNO. SEE GENERAL NOTES FOR MORE INFORMATION. SEE TYPICAL DETAIL FOR ATTACHMENT AND LAYOUT REQUIREMENTS. BLOCKING IS NOT REQUIRED UNLESS NOTED IN DETAILS. REFER TO STRUCTURAL GENERAL NOTES FOR ADDITIONAL REQUIREMENTS.
5. WOOD ROOF SHEATHING SHALL BE 19/32", UNO. SEE GENERAL NOTES FOR MORE INFORMATION. SEE TYPICAL DETAIL FOR ATTACHMENT AND LAYOUT REQUIREMENTS. BLOCKING IS NOT REQUIRED UNLESS NOTED IN DETAILS. REFER TO STRUCTURAL GENERAL NOTES FOR ADDITINAL REQUIREMENTS.
6. COORDINATE JOIST LOCATIONS WITH TOILETS AND OTHER VERTICAL PLUMBING LOCATIONS PRIOR TO INSTALLING JOISTS.
7. WINDOW AND DOOR HEADERS TO BE PER SCHED, UNO.
8. FOR ELEVATIONS, WALL SECTIONS, AND DIMENSIONS NOT SHOWN, SEE ARCHITECTURAL DRAWINGS.

FLOOR FRAMING PLAN NOTES

9/22/2022 11:34:38 AM

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McCarty Holsaple McCarty, Inc.
550 W. Main St., Suite 300
Knoxville, TN 37902
t 865.544.2000
www.mhminc.com

Consultants:

CIVIL ENGINEER:

HUDDLESTON-STEELE ENGINEERING INC.
2112 N.W. BROAD ST.
MURFREESBORO, TN 37129
615.893.4084

LANDSCAPE ARCHITECT:

RAGAN SMITH
100 E. VINE ST., STE 200
MURFREESBORO, TN 37130
615.546.6050

STRUCTURAL ENGINEER:

HAINES STRUCTURAL GROUP
800 S. GAY ST., STE 1750
KNOXVILLE TN, 37929
865.329.9920

MECHANICAL & PLUMBING ENGINEER:

FACILITY SYSTEMS CONSULTANTS
713 S. CENTRAL ST., STE 101
KNOXVILLE TN, 37902
865.246.0164

ELECTRICAL ENGINEER:

FACILITY SYSTEMS CONSULTANTS
713 S. CENTRAL ST., STE 101
KNOXVILLE TN, 37902
865.246.0164

Project Information:

21026

MHA Parkside Housing
520 EAST CASTLE STREET,
MURFREESBORO, TN 37130

Seal:

Consultant:

HAINES STRUCTURAL GROUP
800 S. GAY STREET, STE 1750 KNOXVILLE, TN 37929
(855) 329-9920 | WWW.HAINES-SG.COM
project no. 22187

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Checked By:	GRG

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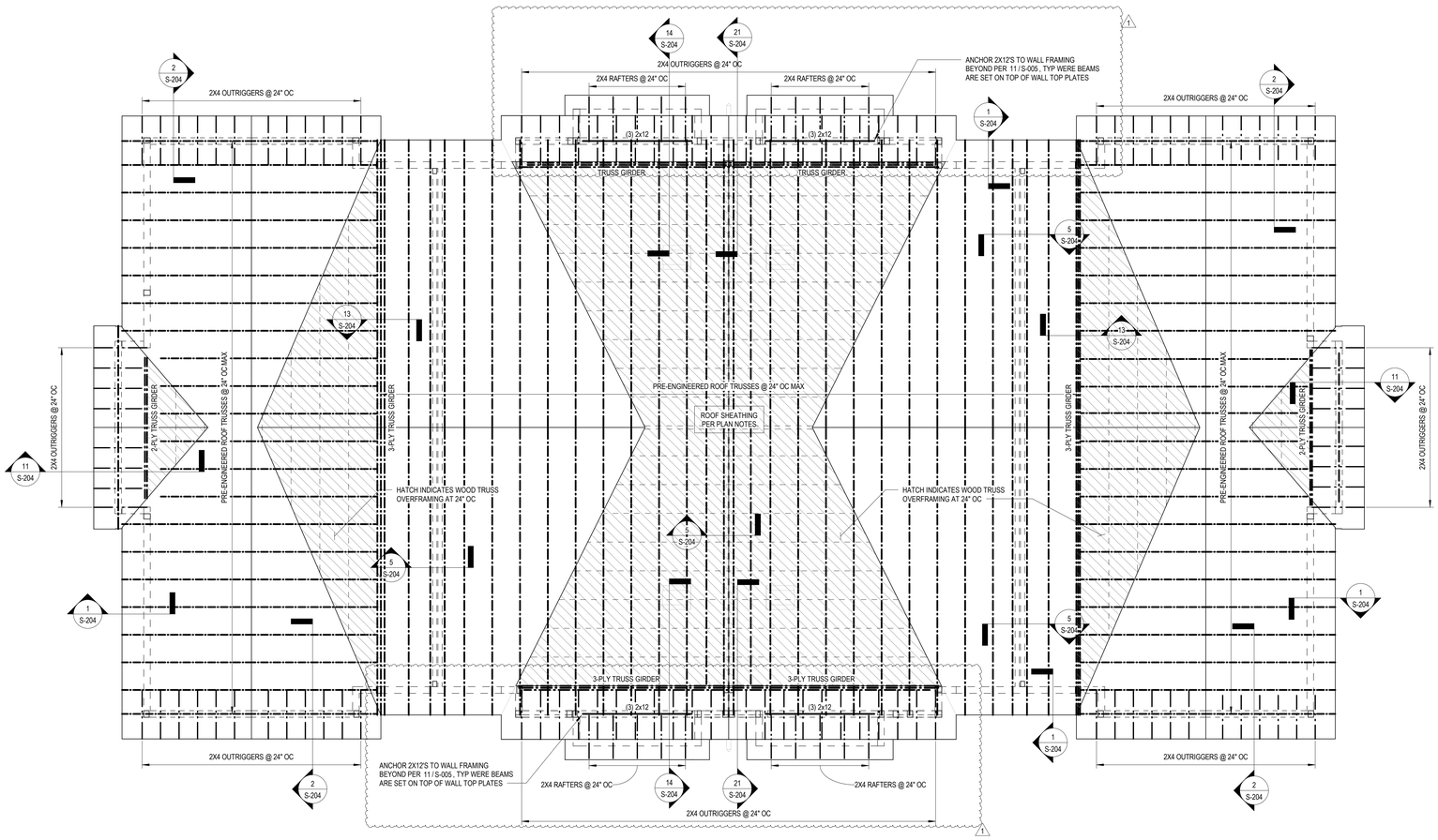
BUILDING A - LEVEL 2 FRAMING PLAN



BUILDING A - ROOF FRAMING PLAN

1/4" = 1'-0"

ROOF FRAMING PLAN NOTES

ROOF FRAMING PLAN NOTES:

1. ELEVATIONS ARE BASED ON A REFERENCE FLOOR ELEVATION OF 0'-0", UNO. TOP OF SLAB ON GRADE BELOW IS AT THE REFERENCE ELEVATION UNLESS NOTED OTHERWISE.
2. TRUSS BRG EL = 19'-1 7/8"
3. ROOF FRAMING SHALL BE PRE-ENGINEERED WOOD ROOF TRUSSES AT 2'-0" OC MAX, UNO. ALL TRUSSES SHALL BE ORIENTED IN THE DIRECTION SHOWN. ROOF TRUSS GIRDERS MAY BE ADJUSTED +/- 6", UNLESS THE ADJUSTMENT LOCATES THE TRUSS GIRDER OVER A WINDOW HEADER. TRUSS LAYOUT SHALL NOT BE SIGNIFICANTLY ALTERED FROM THE CONSTRUCTION DOCUMENTS. IF THERE IS A CONFLICT, OR THE LAYOUT AS SHOWN IN THE CONSTRUCTION DOCUMENTS CANNOT PHYSICALLY BE CONSTRUCTED, CONTACT STRUCTURAL ENGINEER PRIOR TO ISSUING SHOP DRAWINGS.
4. WOOD ROOF SHEATHING SHALL BE 19/32". UNO. SEE GENERAL NOTES FOR MORE INFORMATION. SEE TYPICAL DETAIL FOR ATTACHMENT AND LAYOUT REQUIRMENTS. BLOCKING IS NOT REQUIRED UNLESS NOTED IN DETAILS. REFER TO STRUCTURAL GENERAL NOTES FOR ADDITIONAL REQUIREMENTS.
5. WINDOW AND DOOR HEADERS TO BE PER HEADER SCHED, UNO.
6. ROOF TRUSSES SHALL BEAR ONLY ON EXTERIOR WALLS, UNO.
7. ALL TRUSS GIRDERS SHALL BEAR DIRECTLY OVER (3)-2X6 IN THE WALL BELOW.

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McCarty Holsaple McCarty, Inc.
550 W. Main St., Suite 300
Knoxville, TN 37902
t 865.544.2000
www.mhminc.com

Consultants:

CIVIL ENGINEER:

HUDDLESTON-STEELE ENGINEERING INC.
2112 N.W. BROAD ST.
MURFREESBORO, TN 37129
615.893.4084

LANDSCAPE ARCHITECT:

RAGAN SMITH
100 E. VINE ST., STE 200
MURFREESBORO, TN 37130
615.546.6050

STRUCTURAL ENGINEER:

HAINES STRUCTURAL GROUP
800 S. GAY ST., STE 1750
KNOXVILLE TN, 37929
865.329.9920

MECHANICAL & PLUMBING ENGINEER:

FACILITY SYSTEMS CONSULTANTS
713 S. CENTRAL ST., STE 101
KNOXVILLE TN, 37902
865.246.0164

ELECTRICAL ENGINEER:

FACILITY SYSTEMS CONSULTANTS
713 S. CENTRAL ST., STE 101
KNOXVILLE TN, 37902
865.246.0164

Project Information:

21026

MHA Parkside Housing

520 EAST CASTLE STREET,
MURFREESBORO, TN 37130

Seal:

Consultant:

HAINES STRUCTURAL GROUP
800 S. GAY STREET, STE 1750 KNOXVILLE, TN 37929
(865) 329-9920 | WWW.HAINES-SG.COM
project no. 21187

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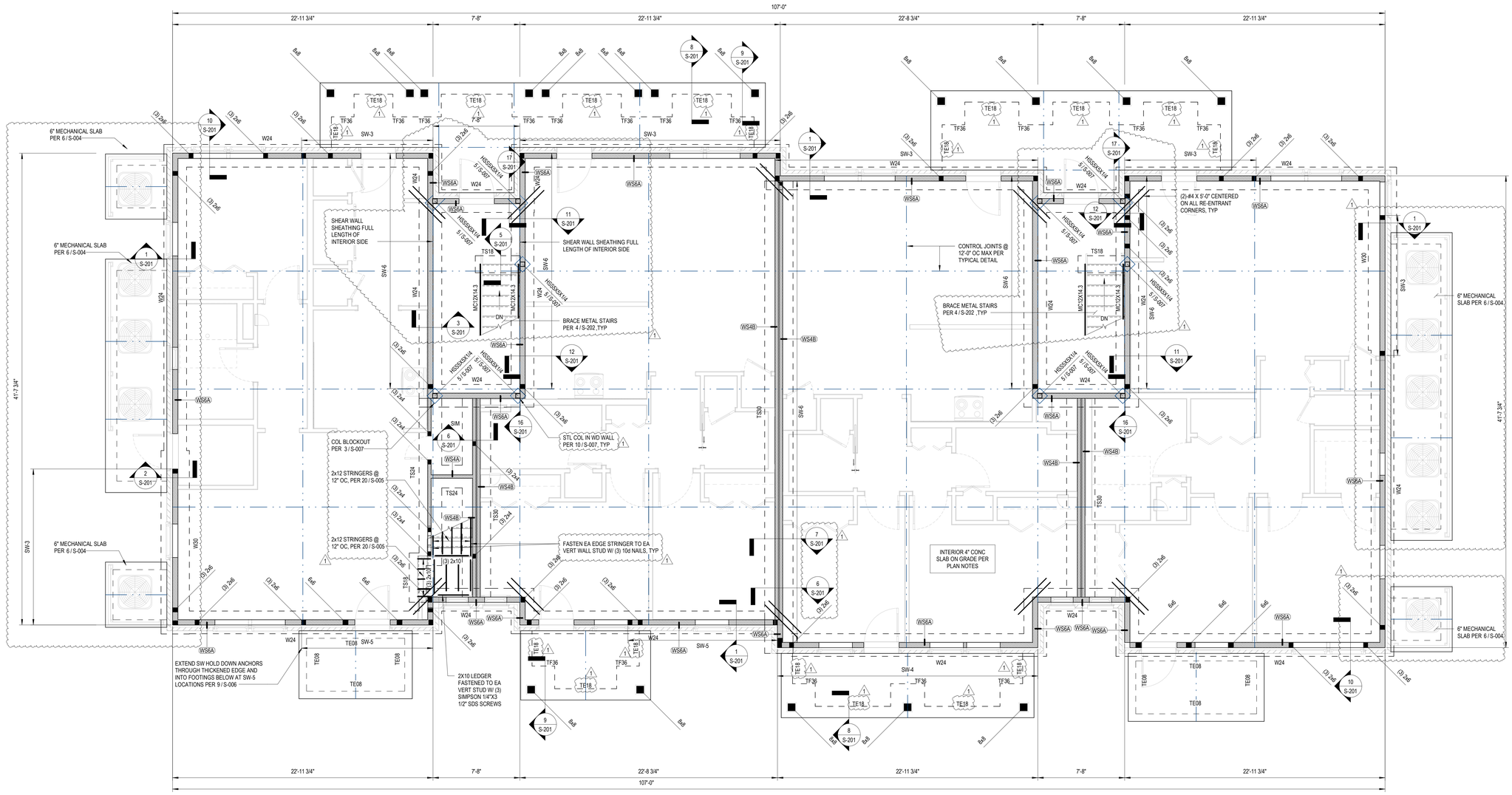
BUILDING A - ROOF FRAMING PLAN



BUILDING B - FOUNDATION PLAN

1/4" = 1'-0"

COLUMN FOOTING SCHEDULE				
MARK	LENGTH	WIDTH	DEPTH	REINFORCEMENT
F36	3'-0"	3'-0"	1'-0"	(4)-#5 EW BTM
F42	3'-6"	3'-6"	1'-0"	(5)-#5 EW BTM
TF24	2'-0"	2'-0"	1'-6"	(3)-#5 EW BTM
TF36	3'-0"	3'-0"	1'-6"	(4)-#5 EW BTM

WALL FOOTING SCHEDULE			
MARK	WIDTH	DEPTH	REINFORCEMENT
TS18	1'-6"	1'-0"	(3)-#5 CONT W/ #5 X 1'-6" TRANS @ 1'-6" OC
TS24	2'-0"	1'-0"	(3)-#5 CONT W/ #5 X 1'-6" TRANS @ 1'-6" OC
TS30	2'-6"	1'-0"	(3)-#5 CONT W/ #5 X 1'-6" TRANS @ 1'-6" OC
W24	2'-0"	1'-0"	(3)-#5 CONT W/ #5 X 1'-6" TRANS @ 1'-6" OC
W30	2'-6"	1'-0"	(3)-#5 CONT W/ #5 X 1'-6" TRANS @ 1'-6" OC
W36	3'-0"	1'-0"	(4)-#5 CONT W/ #5 X 2'-6" TRANS @ 1'-6" OC

FOUNDATION PLAN NOTES:

1. ELEVATIONS ARE BASED ON A REFERENCE FLOOR ELEVATION OF 0'-0", UNO. TOP OF SLAB ON GRADE IS AT THE REFERENCE ELEVATION UNLESS NOTED OTHERWISE.
2. T/ INTERIOR FOOTING ELEVATION = -0'-8", TYP, UNO
3. T/ EXTERIOR FOOTING ELEVATION = -1'-4", TYP, UNO
4. SLAB ON GRADE IS 4 INCHES THICK AND REINFORCED WITH WWF 6X6 W2.1XW2.1. SLAB ON GRADE SHALL BE PLACED OVER A VAPOR BARRIER AND 4 INCHES (MIN) COMPACTED GRANULAR FILL IN ACCORDANCE WITH THE GEOTECHNICAL REPORT. SEE TYPICAL SLAB ON GRADE DETAILS FOR MORE INFORMATION.
5. EXTERIOR SLAB ON GRADE IS 4 INCHES THICK AND REINFORCED WITH WWF 6X6 W2.1XW2.1. SLAB ON GRADE SHALL BE PLACED OVER 4 INCHES (MIN) COMPACTED GRANULAR FILL SEE TYPICAL SLAB ON GRADE DETAILS FOR MORE INFORMATION.
6. ( ) INDICATES TOP OF FOOTING ELEVATION AT NON-TYPICAL LOCATIONS.
7. 'F60' INDICATES COLUMN OR ISOLATED SPREAD FOOTING MARK. SEE SCHEDULE FOR SIZE AND REINFORCEMENT.
8. 'W24' INDICATES WALL OR CONTINUOUS FOOTING MARK. SEE SCHEDULE FOR SIZE AND REINFORCEMENT.
9. 'TS24' & 'TF24' INDICATE THICKENED SLAB AREAS TO BE POURED MONOLITHICALLY WITH SLAB ON GRADE. SEE SCHEDULE FOR SIZE AND REINFORCEMENT.
10. 'TE' DENOTES TURN-DOWN SLAB EDGE. SEE TYPICAL DETAIL FOR SIZE AND REINFORCING.
11. 'P1' INDICATES REINFORCED CONCRETE PEDESTAL. SEE SCHEDULE FOR SIZE AND REINFORCEMENT. TOP OF PEDESTAL IS TO ALIGN WITH ADJACENT WALL UNLESS NOTED OTHERWISE.
12. FOR ELEVATIONS, WALL SECTIONS, AND DIMENSIONS NOT SHOWN, SEE ARCHITECTURAL DRAWINGS.
13. FOR SIDEWALKS, PAVING, AND SITE DETAILS AT THE BUILDING EXTERIOR, SEE ARCHITECTURAL AND CIVIL DRAWINGS.
14. 'SW-1' DENOTES MULTI-STORY WOOD SHEAR WALL. SEE S006 FOR SHEAR WALL SCHEDULE AND DETAILS.

FOUNDATION PLAN NOTES

9/22/2022 11:34:40 AM

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McCarty Holsaple McCarty, Inc.
550 W. Main St., Suite 300
Knoxville, TN 37902
t.865.544.2000
www.mhminc.com

Consultants:

CIVIL ENGINEER:
HUDDLESTON-STEELE ENGINEERING INC.
2112 N.W. BROAD ST.
MURFREESBORO, TN 37129
615.893.4084

LANDSCAPE ARCHITECT:
RAGAN SMITH
100 E. VINE ST., STE 200
MURFREESBORO, TN 37130
615.546.6050

STRUCTURAL ENGINEER:
HAINES STRUCTURAL GROUP
800 S. GAY ST., STE 1750
KNOXVILLE TN, 37929
865.329.9920

MECHANICAL & PLUMBING ENGINEER:
FACILITY SYSTEMS CONSULTANTS
713 S. CENTRAL ST., STE 101
KNOXVILLE TN, 37902
865.246.0164

ELECTRICAL ENGINEER:
FACILITY SYSTEMS CONSULTANTS
713 S. CENTRAL ST., STE 101
KNOXVILLE TN, 37902
865.246.0164

Project Information:

21026

MHA Parkside Housing

520 EAST CASTLE STREET,
MURFREESBORO, TN 37130

Seal:

Consultant:

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800 S. GAY STREET, STE 1750 KNOXVILLE, TN 37929
(865) 329-9920 | WWW.HAINES-SG.COM
project no. 21187

#	ISSUE	DATE
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PA	G. TAYLOR
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Checked By:	GRG

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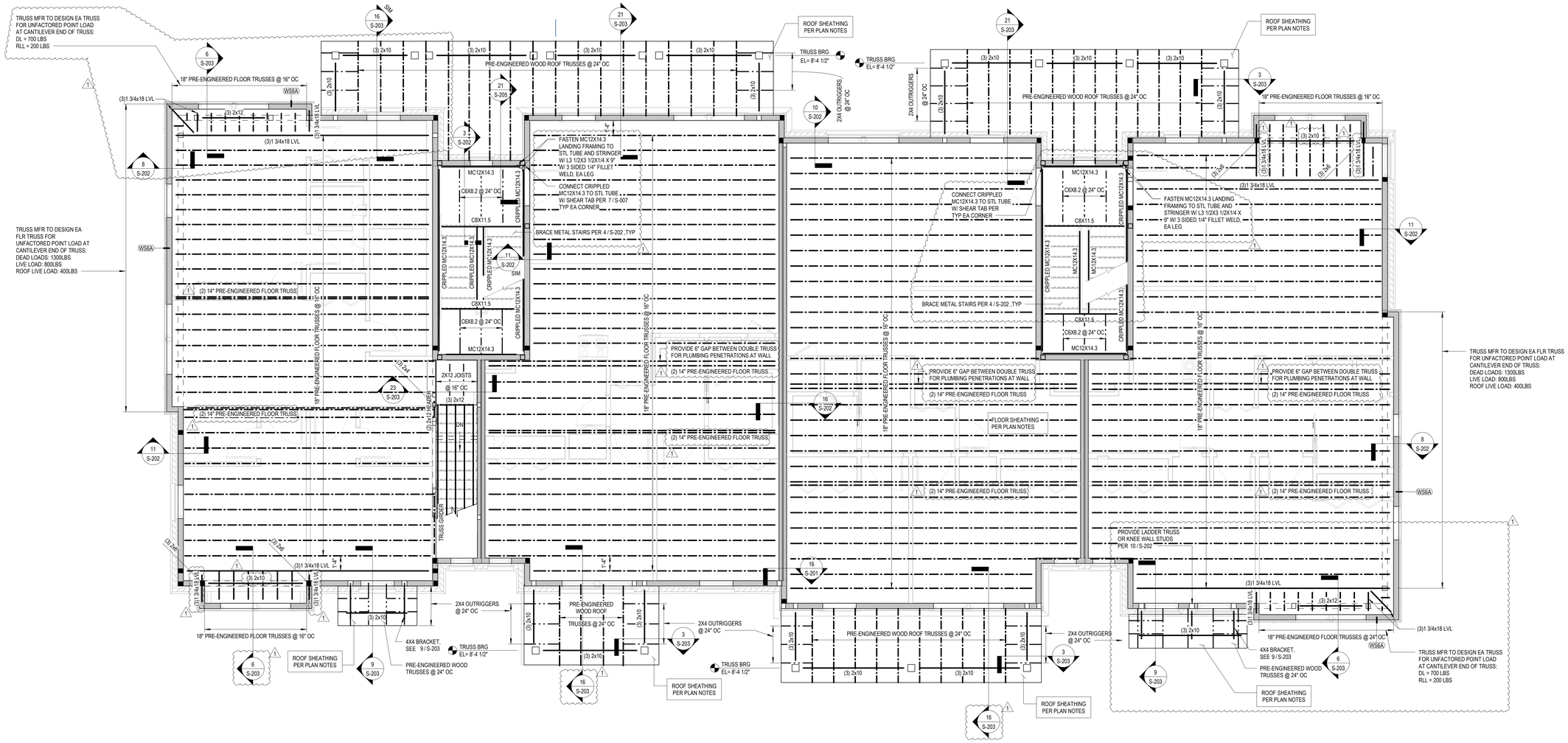
S-120

BUILDING B - FOUNDATION PLAN



BUILDING B - LEVEL 2 FRAMING PLAN

1/4" = 1'-0"

FLOOR FRAMING PLAN NOTES:

1. ELEVATIONS ARE BASED ON A REFERENCE FLOOR ELEVATION OF 0'-0", UNO. TOP OF SLAB ON GRADE BELOW IS AT THE REFERENCE ELEVATION UNLESS NOTED OTHERWISE.
2. JOIST BRG EL = 8'-10 5/8", UNO.
3. T/SHEATHING ELEVATION AT SECOND LEVEL = 10'-1 1/4", TYP, UNO
4. WOOD FLOOR SHEATHING SHALL BE 23/32", UNO. SEE GENERAL NOTES FOR MORE INFORMATION. SEE TYPICAL DETAIL FOR ATTACHMENT AND LAYOUT REQUIREMENTS. BLOCKING IS NOT REQUIRED UNLESS NOTED IN DETAILS. REFER TO STRUCTURAL GENERAL NOTES FOR ADDITIONAL REQUIREMENTS.
5. WOOD ROOF SHEATHING SHALL BE 19/32", UNO. SEE GENERAL NOTES FOR MORE INFORMATION. SEE TYPICAL DETAIL FOR ATTACHMENT AND LAYOUT REQUIREMENTS. BLOCKING IS NOT REQUIRED UNLESS NOTED IN DETAILS. REFER TO STRUCTURAL GENERAL NOTES FOR ADDITIONAL REQUIREMENTS.
6. COORDINATE JOIST LOCATIONS WITH TOILETS AND OTHER VERTICAL PLUMNBING LOCATIONS PRIOR TO INSTALLING JOISTS.
7. WINDOW AND DOOR HEADERS TO BE PER SCHED, UNO.
8. FOR ELEVATIONS, WALL SECTIONS, AND DIMENSIONS NOT SHOWN, SEE ARCHITECTURAL DRAWINGS.

FLOOR FRAMING PLAN NOTES

9/22/2022 11:34:41 AM

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McCarty Holsaple McCarty, Inc.
550 W. Main St., Suite 300
Knoxville, TN 37902
t 865.544.2000
www.mhminc.com

Consultants:

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HUDDLESTON-STEELE ENGINEERING INC.
2112 N.W. BROAD ST.
MURFREESBORO, TN 37129
615.893.4084

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RAGAN SMITH
100 E. VINE ST., STE 200
MURFREESBORO, TN 37130
615.546.6050

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HAINES STRUCTURAL GROUP
800 S. GAY ST., STE 1750
KNOXVILLE TN, 37929
865.329.9920

MECHANICAL & PLUMBING ENGINEER:
FACILITY SYSTEMS CONSULTANTS
713 S. CENTRAL ST., STE 101
KNOXVILLE TN, 37902
865.246.0164

ELECTRICAL ENGINEER:
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713 S. CENTRAL ST., STE 101
KNOXVILLE TN, 37902
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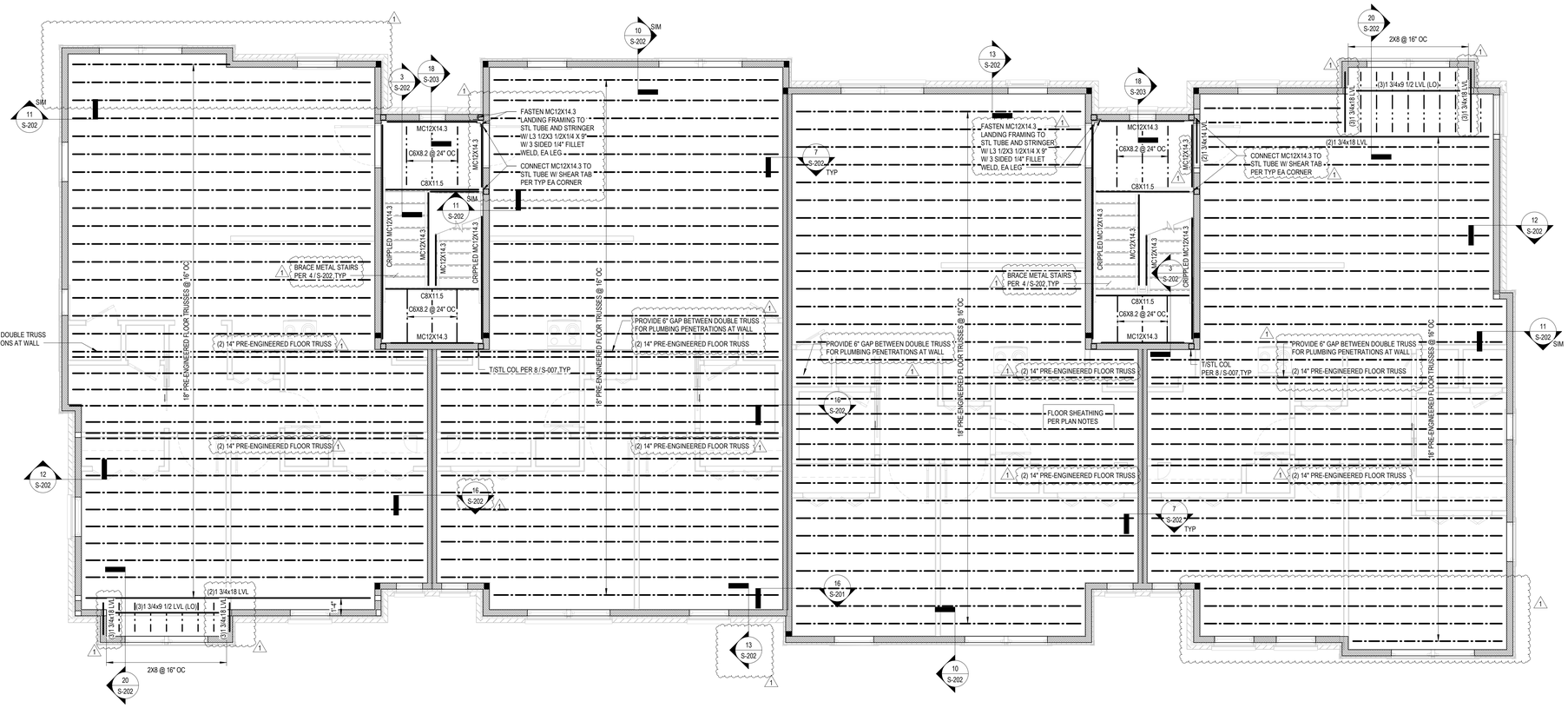
S-121

BUILDING B - LEVEL 2 FRAMING PLAN



BUILDING B - LEVEL 3 FRAMING PLAN

1/4" = 1'-0"

FLOOR FRAMING PLAN NOTES

FLOOR FRAMING PLAN NOTES:

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2. JOIST BRG EL = 8'-10 5/8", UNO
3. T/SHEATHING ELEVATION AT SECOND LEVEL = 10'-1 1/4", TYP, UNO
4. WOOD FLOOR SHEATHING SHALL BE 23/32", UNO. SEE GENERAL NOTES FOR MORE INFORMATION. SEE TYPICAL DETAIL FOR ATTACHMENT AND LAYOUT REQUIREMENTS. BLOCKING IS NOT REQUIRED UNLESS NOTED IN DETAILS. REFER TO STRUCTURAL GENERAL NOTES FOR ADDITIONAL REQUIREMENTS.
5. WOOD ROOF SHEATHING SHALL BE 19/32", UNO. SEE GENERAL NOTES FOR MORE INFORMATION. SEE TYPICAL DETAIL FOR ATTACHMENT AND LAYOUT REQUIREMENTS. BLOCKING IS NOT REQUIRED UNLESS NOTED IN DETAILS. REFER TO STRUCTURAL GENERAL NOTES FOR ADDITIONAL REQUIREMENTS.
6. COORDINATE JOIST LOCATIONS WITH TOILETS AND OTHER VERTICAL PLUMMBING LOCATIONS PRIOR TO INSTALLING JOISTS.
7. WINDOW AND DOOR HEADERS TO BE PER SCHED, UNO.
8. FOR ELEVATIONS, WALL SECTIONS, AND DIMENSIONS NOT SHOWN, SEE ARCHITECTURAL DRAWINGS.

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McCarty Holsaple McCarty, Inc.
550 W. Main St., Suite 300
Knoxville, TN 37902
t 865.544.2000
www.mhminc.com

Consultants:

CIVIL ENGINEER:

HUDDLESTON-STEELE ENGINEERING INC.
2112 N.W. BROAD ST.
MURFREESBORO, TN 37129
615.893.4084

LANDSCAPE ARCHITECT:

RAGAN SMITH
100 E. VINE ST., STE 200
MURFREESBORO, TN 37130
615.546.6050

STRUCTURAL ENGINEER:

HAINES STRUCTURAL GROUP
800 S. GAY ST., STE 1750
KNOXVILLE TN, 37929
865.329.9920

MECHANICAL & PLUMBING ENGINEER:

FACILITY SYSTEMS CONSULTANTS
713 S. CENTRAL ST., STE 101
KNOXVILLE TN, 37902
865.246.0164

ELECTRICAL ENGINEER:

FACILITY SYSTEMS CONSULTANTS
713 S. CENTRAL ST., STE 101
KNOXVILLE TN, 37902
865.246.0164

Project Information:

21026

MHA Parkside Housing

520 EAST CASTLE STREET,
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800 S. GAY STREET, STE 1750 KNOXVILLE, TN 37929
(865) 329-9920 | WWW.HAINES-SG.COM
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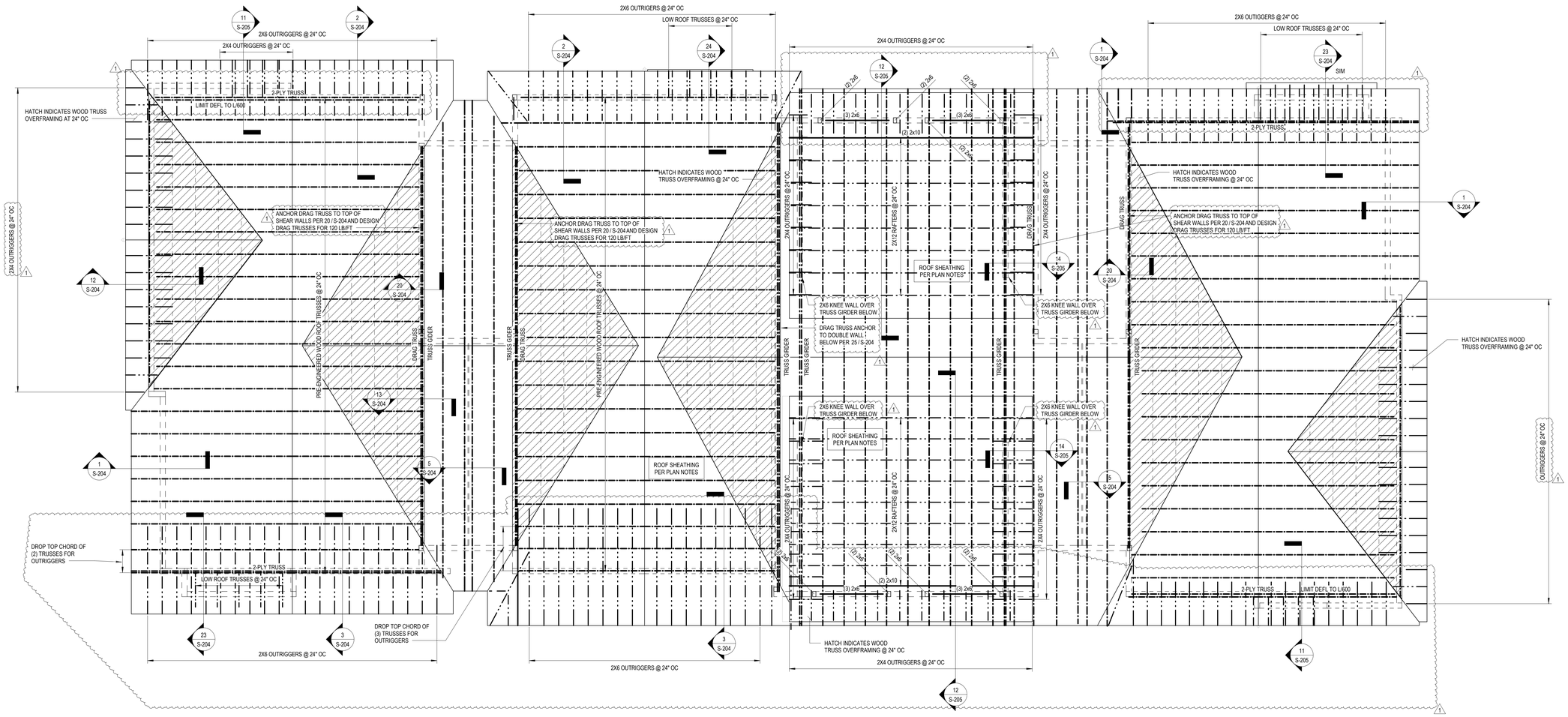
S-122

BUILDING B - LEVEL 3 FRAMING PLAN



BUILDING B - ROOF FRAMING PLAN

1/4" = 1'-0"

ROOF FRAMING PLAN NOTES:

1. ELEVATIONS ARE BASED ON A REFERENCE FLOOR ELEVATION OF 0'-0", UNO. TOP OF SLAB ON GRADE BELOW IS AT THE REFERENCE ELEVATION UNLESS NOTED OTHERWISE.
2. TRUSS BRG EL = 19'-1 7/8"
3. ROOF FRAMING SHALL BE PRE-ENGINEERED WOOD ROOF TRUSSES AT 2'-0" OC MAX, UNO. ALL TRUSSES SHALL BE ORIENTED IN THE DIRECTION SHOWN. ROOF TRUSS GIRDERS MAY BE ADJUSTED +/- 6", UNLESS THE ADJUSTMENT LOCATES THE TRUSS GIRDER OVER A WINDOW HEADER. TRUSS LAYOUT SHALL NOT BE SIGNIFICANTLY ALTERED FROM THE CONSTRUCTION DOCUMENTS. IF THERE IS A CONFLICT, OR THE LAYOUT AS SHOWN IN THE CONSTRUCTION DOCUMENTS CANNOT PHYSICALLY BE CONSTRUCTED, CONTACT STRUCTURAL ENGINEER PRIOR TO ISSUING SHOP DRAWINGS.
4. WOOD ROOF SHEATHING SHALL BE 19/32", UNO. SEE GENERAL NOTES FOR MORE INFORMATION. SEE TYPICAL DETAIL FOR ATTACHMENT AND LAYOUT REQUIRMENTS. BLOCKING IS NOT REQUIRED UNLESS NOTED IN DETAILS. REFER TO STRUCTURAL GENERAL NOTES FOR ADDITIONAL REQUIREMENTS.
5. WINDOW AND DOOR HEADERS TO BE PER HEADER SCHED. UNO.
6. ROOF TRUSSES SHALL BEAR ONLY ON EXTERIOR WALLS, UNO.
7. ALL TRUSS GIRDERS SHALL BEAR DIRECTLY OVER (3)-2X6 IN THE WALL BELOW.

ROOF FRAMING PLAN NOTES

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McCarty Holsaple McCarty, Inc.
550 W. Main St., Suite 300
Knoxville, TN 37902
t 865.544.2000
www.mhminc.com

Consultants:

CIVIL ENGINEER:

HUDDLESTON-STEELE ENGINEERING INC.
2112 N.W. BROAD ST.
MURFREESBORO, TN 37129
615.893.4084

LANDSCAPE ARCHITECT:

RAGAN SMITH
100 E. VINE ST., STE 200
MURFREESBORO, TN 37130
615.546.6050

STRUCTURAL ENGINEER:

HAINES STRUCTURAL GROUP
800 S. GAY ST., STE 1750
KNOXVILLE TN, 37929
865.329.9920

MECHANICAL & PLUMBING ENGINEER:

FACILITY SYSTEMS CONSULTANTS
713 S. CENTRAL ST., STE 101
KNOXVILLE TN, 37902
865.246.0164

ELECTRICAL ENGINEER:

FACILITY SYSTEMS CONSULTANTS
713 S. CENTRAL ST., STE 101
KNOXVILLE TN, 37902
865.246.0164

Project Information:

21026

MHA Parkside Housing

520 EAST CASTLE STREET,
MURFREESBORO, TN 37130

Seal:

Consultant:

HAINES STRUCTURAL GROUP
800 S. GAY STREET, STE. 1750 KNOXVILLE, TN 37929
(865) 329-9920 | WWW.HAINES-SG.COM
project no. 21147

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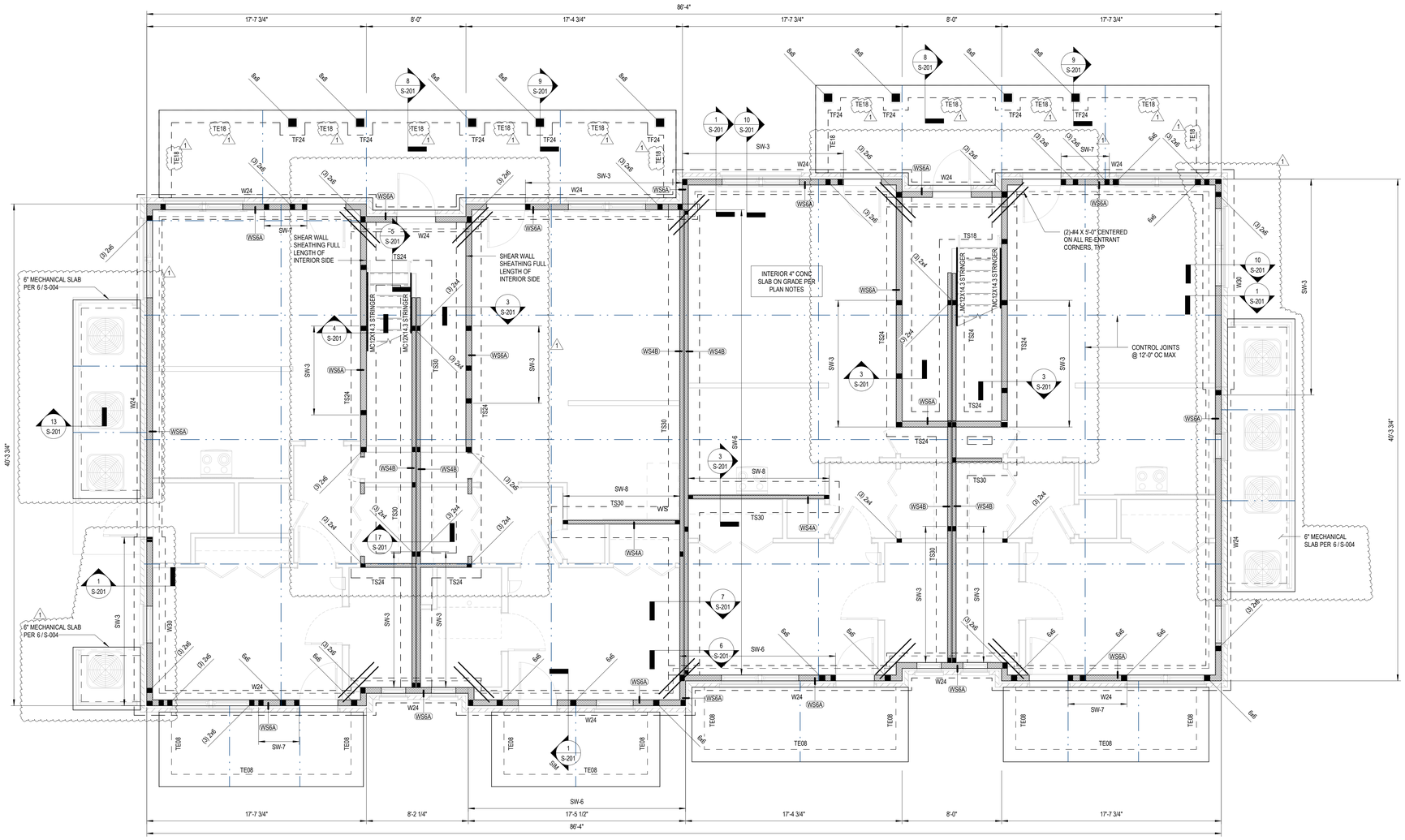
S-123

BUILDING B - ROOF FRAMING PLAN



BUILDING C - FOUNDATION PLAN

1/4" = 1'-0"

COLUMN FOOTING SCHEDULE				
MARK	LENGTH	WIDTH	DEPTH	REINFORCEMENT
F36	3'-0"	3'-0"	1'-0"	(4)-#5 EW BTM
F42	3'-6"	3'-6"	1'-0"	(5)-#5 EW BTM
TF24	2'-0"	2'-0"	1'-6"	(3)-#5 EW BTM
TF36	3'-0"	3'-0"	1'-6"	(4)-#5 EW BTM

WALL FOOTING SCHEDULE			
MARK	WIDTH	DEPTH	REINFORCEMENT
TS18	1'-6"	1'-0"	(3)-#5 CONT W/ #5 X 1'-6" TRANS @ 1'-6" OC
TS24	2'-0"	1'-0"	(3)-#5 CONT W/ #5 X 1'-6" TRANS @ 1'-6" OC
TS30	2'-6"	1'-0"	(3)-#5 CONT W/ #5 X 1'-6" TRANS @ 1'-6" OC
W24	2'-0"	1'-0"	(3)-#5 CONT W/ #5 X 1'-6" TRANS @ 1'-6" OC
W30	2'-6"	1'-0"	(3)-#5 CONT W/ #5 X 1'-6" TRANS @ 1'-6" OC
W36	3'-0"	1'-0"	(4)-#5 CONT W/ #5 X 2'-6" TRANS @ 1'-6" OC

FOUNDATION PLAN NOTES

FOUNDATION PLAN NOTES:

1. ELEVATIONS ARE BASED ON A REFERENCE FLOOR ELEVATION OF 0'-0", UNO. TOP OF SLAB ON GRADE IS AT THE REFERENCE ELEVATION UNLESS NOTED OTHERWISE.
2. T/ INTERIOR FOOTING ELEVATION = -0'-8", TYP, UNO
3. T/ EXTERIOR FOOTING ELEVATION = -1'-4", TYP, UNO
4. SLAB ON GRADE IS 4 INCHES THICK AND REINFORCED WITH WWF 6X6 W2.1XW2.1. SLAB ON GRADE SHALL BE PLACED OVER A VAPOR BARRIER AND 4 INCHES (MIN) COMPACTED GRANULAR FILL IN ACCORDANCE WITH THE GEOTECHNICAL REPORT. SEE TYPICAL SLAB ON GRADE DETAILS FOR MORE INFORMATION.
5. EXTERIOR SLAB ON GRADE IS 4 INCHES THICK AND REINFORCED WITH WWF 6X6 W2.1XW2.1. SLAB ON GRADE SHALL BE PLACED OVER 4 INCHES (MIN) COMPACTED GRANULAR FILL SEE TYPICAL SLAB ON GRADE DETAILS FOR MORE INFORMATION.
6. ( ) INDICATES TOP OF FOOTING ELEVATION AT NON-TYPICAL LOCATIONS.
7. 'F60' INDICATES COLUMN OR ISOLATED SPREAD FOOTING MARK. SEE SCHEDULE FOR SIZE AND REINFORCEMENT.
8. 'W24' INDICATES WALL OR CONTINUOUS FOOTING MARK. SEE SCHEDULE FOR SIZE AND REINFORCEMENT.
9. 'TS24' & 'TF24' INDICATE THICKENED SLAB AREAS TO BE POURED MONOLITHICALLY WITH SLAB ON GRADE. SEE SCHEDULE FOR SIZE AND REINFORCEMENT.
10. 'TE' DENOTES TURN-DOWN SLAB EDGE. SEE TYPICAL DETAIL FOR SIZE AND REINFORCING.
11. 'P1' INDICATES REINFORCED CONCRETE PEDESTAL. SEE SCHEDULE FOR SIZE AND REINFORCEMENT. TOP OF PEDESTAL IS TO ALIGN WITH ADJACENT WALL UNLESS NOTED OTHERWISE.
12. FOR ELEVATIONS, WALL SECTIONS, AND DIMENSIONS NOT SHOWN, SEE ARCHITECTURAL DRAWINGS.
13. FOR SIDEWALKS, PAVING, AND SITE DETAILS AT THE BUILDING EXTERIOR, SEE ARCHITECTURAL AND CIVIL DRAWINGS.

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McCarty Holsaple McCarty, Inc.
550 W. Main St., Suite 300
Knoxville, TN 37902
t.865.544.2000
www.mhminc.com

Consultants:

CIVIL ENGINEER:

HUDDLESTON-STEELE ENGINEERING INC.
2112 N.W. BROAD ST.
MURFREESBORO, TN 37129
615.893.4084

LANDSCAPE ARCHITECT:

RAGAN SMITH
100 E. VINE ST., STE 200
MURFREESBORO, TN 37130
615.546.6050

STRUCTURAL ENGINEER:

HAINES STRUCTURAL GROUP
800 S. GAY ST., STE 1750
KNOXVILLE TN, 37929
865.329.9920

MECHANICAL & PLUMBING ENGINEER:

FACILITY SYSTEMS CONSULTANTS
713 S. CENTRAL ST., STE 101
KNOXVILLE TN, 37902
865.246.0164

ELECTRICAL ENGINEER:

FACILITY SYSTEMS CONSULTANTS
713 S. CENTRAL ST., STE 101
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865.246.0164

Project Information:

21026

MHA Parkside Housing

520 EAST CASTLE STREET,
MURFREESBORO, TN 37130

Seal:

Consultant:

HAINES STRUCTURAL GROUP
800 S. GAY STREET, STE. 1750 KNOXVILLE, TN 37929
(865) 329-9920 | WWW.HAINES-SG.COM
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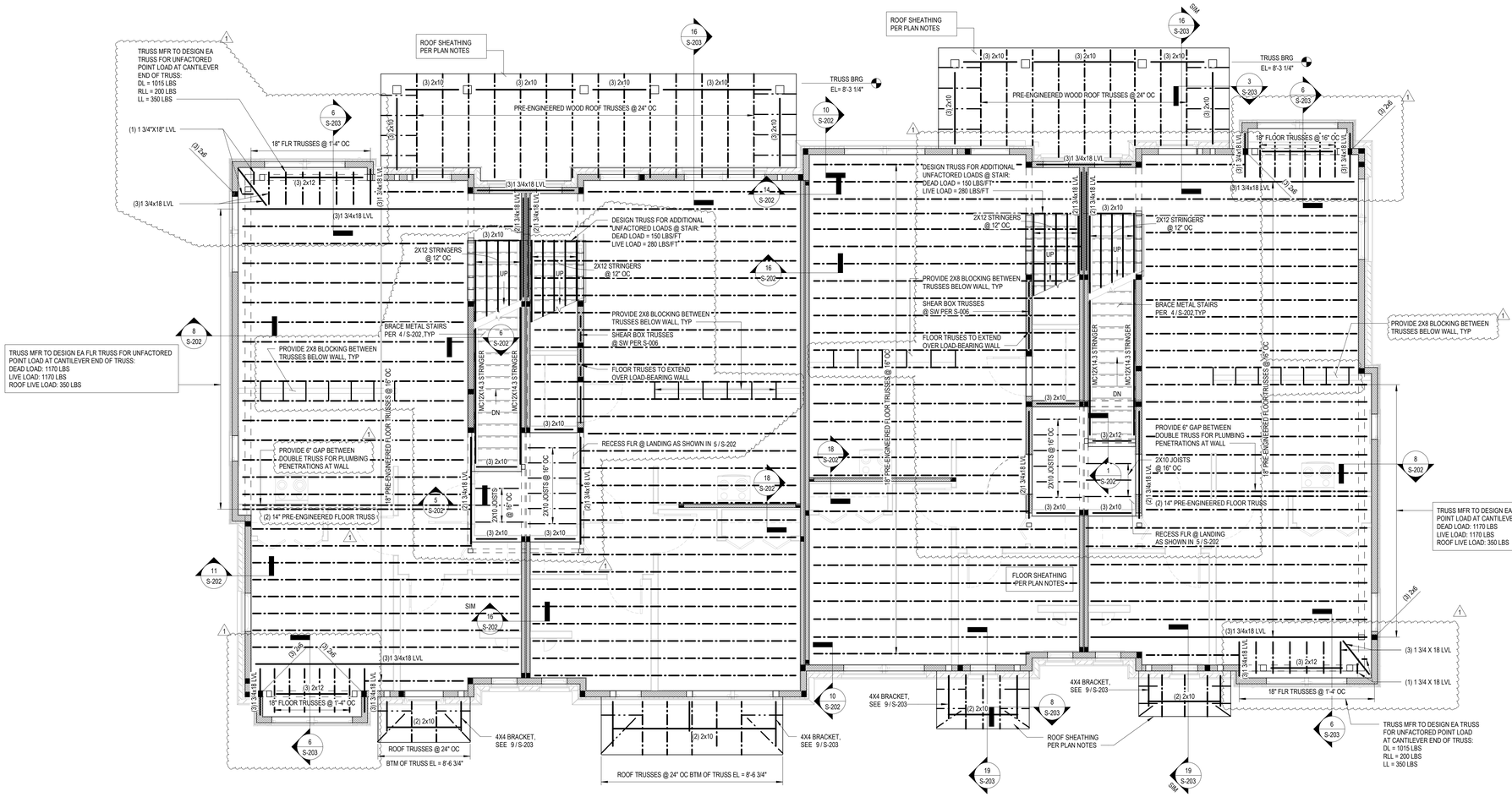
S-130

BUILDING C - FOUNDATION PLAN



BUILDING C - LEVEL 2 FRAMING PLAN

1/4" = 1'-0"

FLOOR FRAMING PLAN NOTES:

1. ELEVATIONS ARE BASED ON A REFERENCE FLOOR ELEVATION OF 0'-0", UNO. TOP OF SLAB ON GRADE BELOW IS AT THE REFERENCE ELEVATION UNLESS NOTED OTHERWISE.
2. JOIST BRG EL = 8' 10 5/8", UNO
3. T/SHEATHING ELEVATION AT SECOND LEVEL = 10'-1 1/4", TYP, UNO
4. WOOD FLOOR SHEATHING SHALL BE 23/32", UNO. SEE GENERAL NOTES FOR MORE INFORMATION. SEE TYPICAL DETAIL FOR ATTACHMENT AND LAYOUT REQUIREMENTS. BLOCKING IS NOT REQUIRED UNLESS NOTED IN DETAILS. REFER TO STRUCTURAL GENERAL NOTES FOR ADDITIONAL REQUIREMENTS.
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FLOOR FRAMING PLAN NOTES

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McCarty Holsaple McCarty, Inc.
550 W. Main St., Suite 300
Knoxville, TN 37902
t 865.544.2000
www.mhminc.com

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CIVIL ENGINEER:

HUDDLESTON-STEELE ENGINEERING INC.
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(865) 329-9920 | WWW.HAINES-SG.COM

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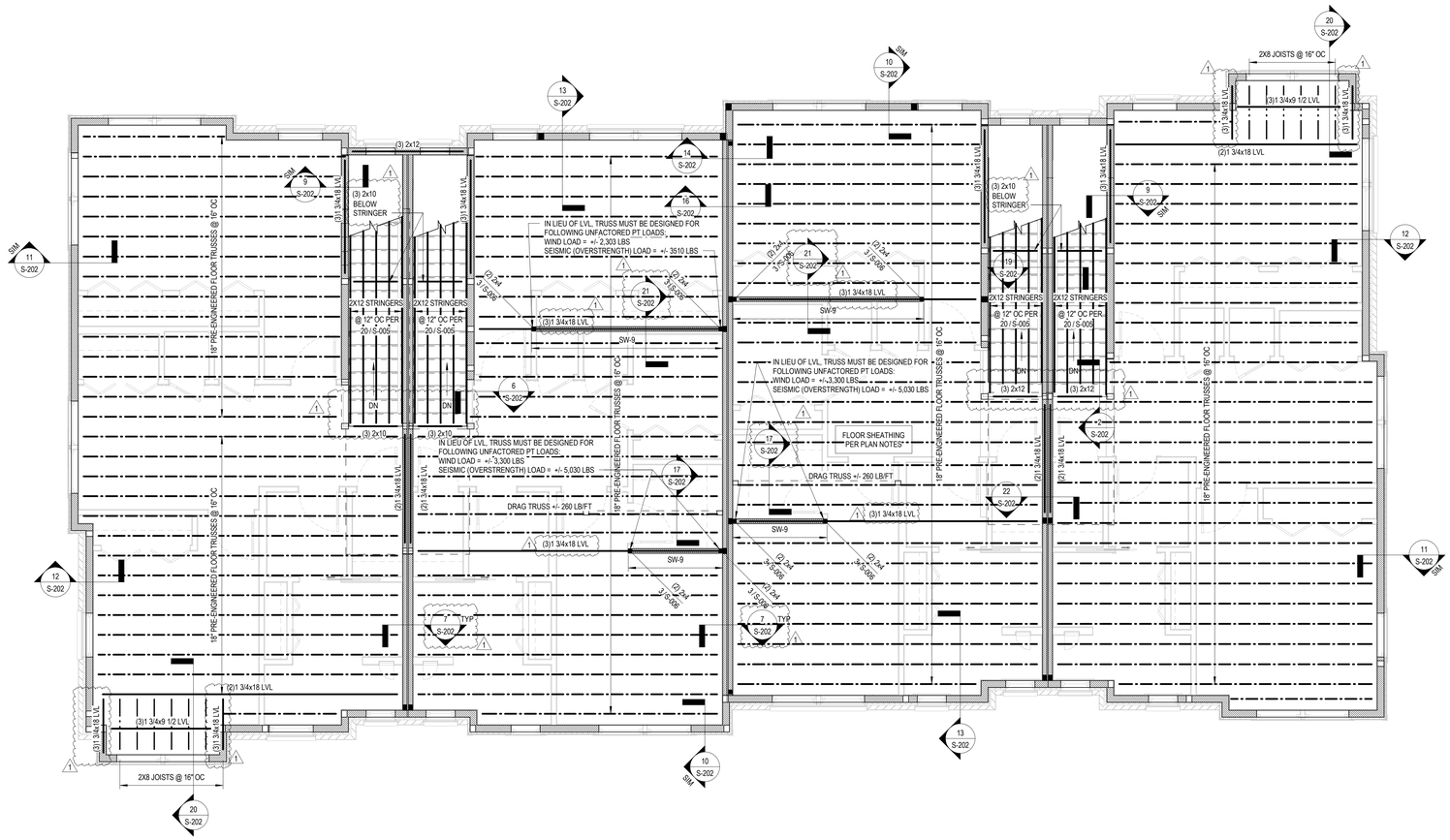
BUILDING C - LEVEL 2 FRAMING PLAN



BUILDING C - LEVEL 3 FRAMING PLAN

1/4" = 1'-0"

FLOOR FRAMING PLAN NOTES

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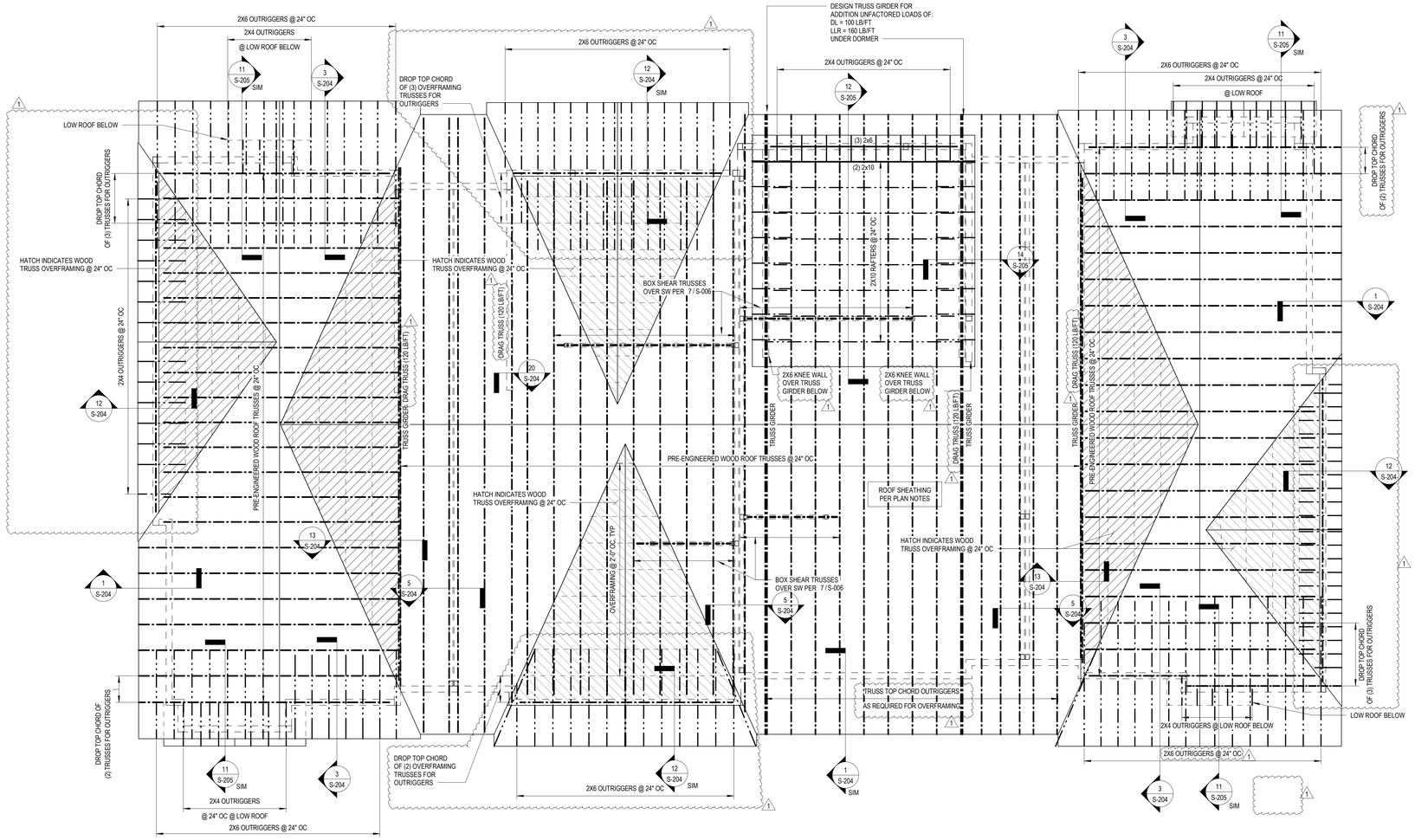
S-132

BUILDING C - LEVEL 3 FRAMING PLAN



BUILDING C - ROOF FRAMING PLAN

1/4" = 1'-0"

ROOF FRAMING PLAN NOTES

ROOF FRAMING PLAN NOTES:

1. ELEVATIONS ARE BASED ON A REFERENCE FLOOR ELEVATION OF 0'-0", UNO. TOP OF SLAB ON GRADE BELOW IS AT THE REFERENCE ELEVATION UNLESS NOTED OTHERWISE.
2. TRUSS BRG EL = 28'-9 1/2"
3. ROOF FRAMING SHALL BE PRE-ENGINEERED WOOD ROOF TRUSSES AT 2'-0" OC MAX, UNO. ALL TRUSSES SHALL BE ORIENTED IN THE DIRECTION SHOWN. ROOF TRUSS GIRDERS MAY BE ADJUSTED +/- 6", UNLESS THE ADJUSTMENT LOCATES THE TRUSS GIRDER OVER A WINDOW HEADER. TRUSS LAYOUT SHALL NOT BE SIGNIFICANTLY ALTERED FROM THE CONSTRUCTION DOCUMENTS. IF THERE IS A CONFLICT, OR THE LAYOUT AS SHOWN IN THE CONSTRUCTION DOCUMENTS CANNOT PHYSICALLY BE CONSTRUCTED, CONTACT STRUCTURAL ENGINEER PRIOR TO ISSUING SHOP DRAWINGS.
4. WOOD ROOF SHEATHING SHALL BE 19/32", UNO. SEE GENERAL NOTES FOR MORE INFORMATION. SEE TYPICAL DETAIL FOR ATTACHMENT AND LAYOUT REQUIRMENTS. BLOCKING IS NOT REQUIRED UNLESS NOTED IN DETAILS. REFER TO STRUCTURAL GENERAL NOTES FOR ADDITIONAL REQUIREMENTS.
5. WINDOW AND DOOR HEADERS TO BE PER HEADER SCHED, UNO.
6. ROOF TRUSSES SHALL BEAR ONLY ON EXTERIOR WALLS, UNO.
7. ALL TRUSS GIRDERS SHALL BEAR DIRECTLY OVER (3)-2X6 IN THE WALL BELOW.

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McCarty Holsaple McCarty, Inc.
550 W. Main St., Suite 300
Knoxville, TN 37902
t.865.544.2000
www.mhminc.com

Consultants:

CIVIL ENGINEER:

HUDDLESTON-STEELE ENGINEERING INC.
2112 N.W. BROAD ST.
MURFREESBORO, TN 37129
615.893.4084

LANDSCAPE ARCHITECT:

RAGAN SMITH
100 E. VINE ST., STE 200
MURFREESBORO, TN 37130
615.546.6050

STRUCTURAL ENGINEER:

HAINES STRUCTURAL GROUP
800 S. GAY ST., STE 1750
KNOXVILLE TN, 37929
865.329.9920

MECHANICAL & PLUMBING ENGINEER:

FACILITY SYSTEMS CONSULTANTS
713 S. CENTRAL ST., STE 101
KNOXVILLE TN, 37902
865.246.0164

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Project Information:

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MHA Parkside Housing

520 EAST CASTLE STREET,
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Seal:

Consultant:

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(865) 329-9920 | WWW.HAINES-SG.COM
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Checked By:	GRG

Sheet Description:

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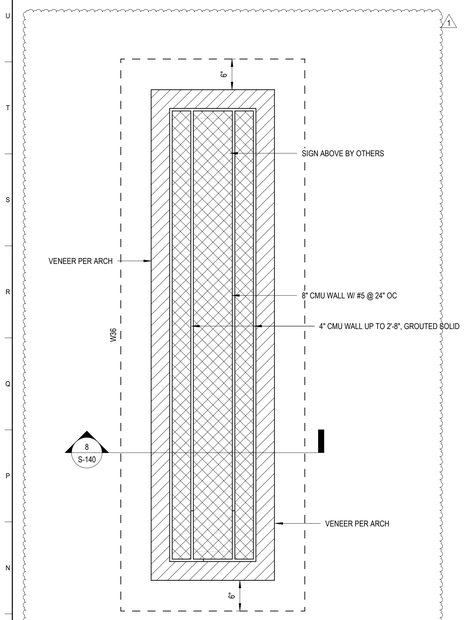
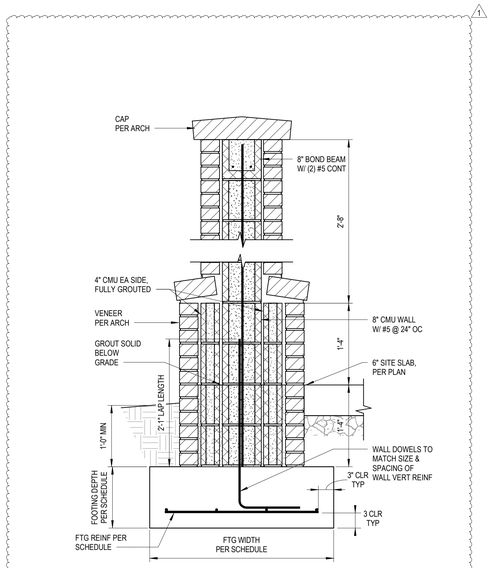
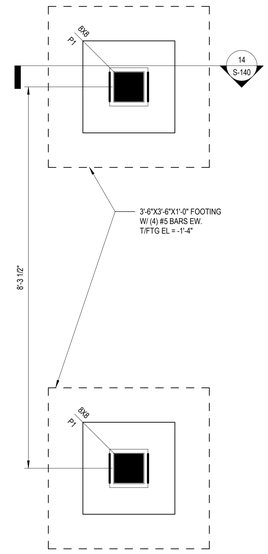
BUILDING C - ROOF FRAMING PLAN



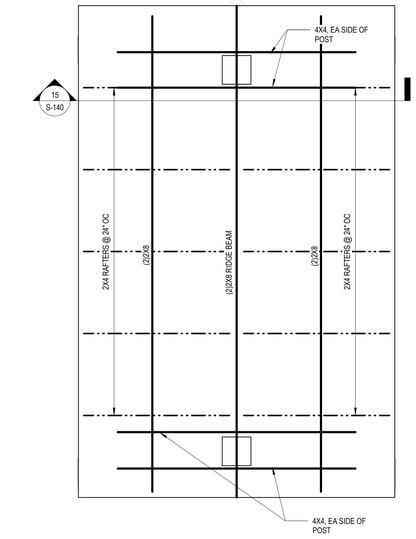
6 ENLARGED SIGN FOUNDATION PLAN
1" = 1'-0"



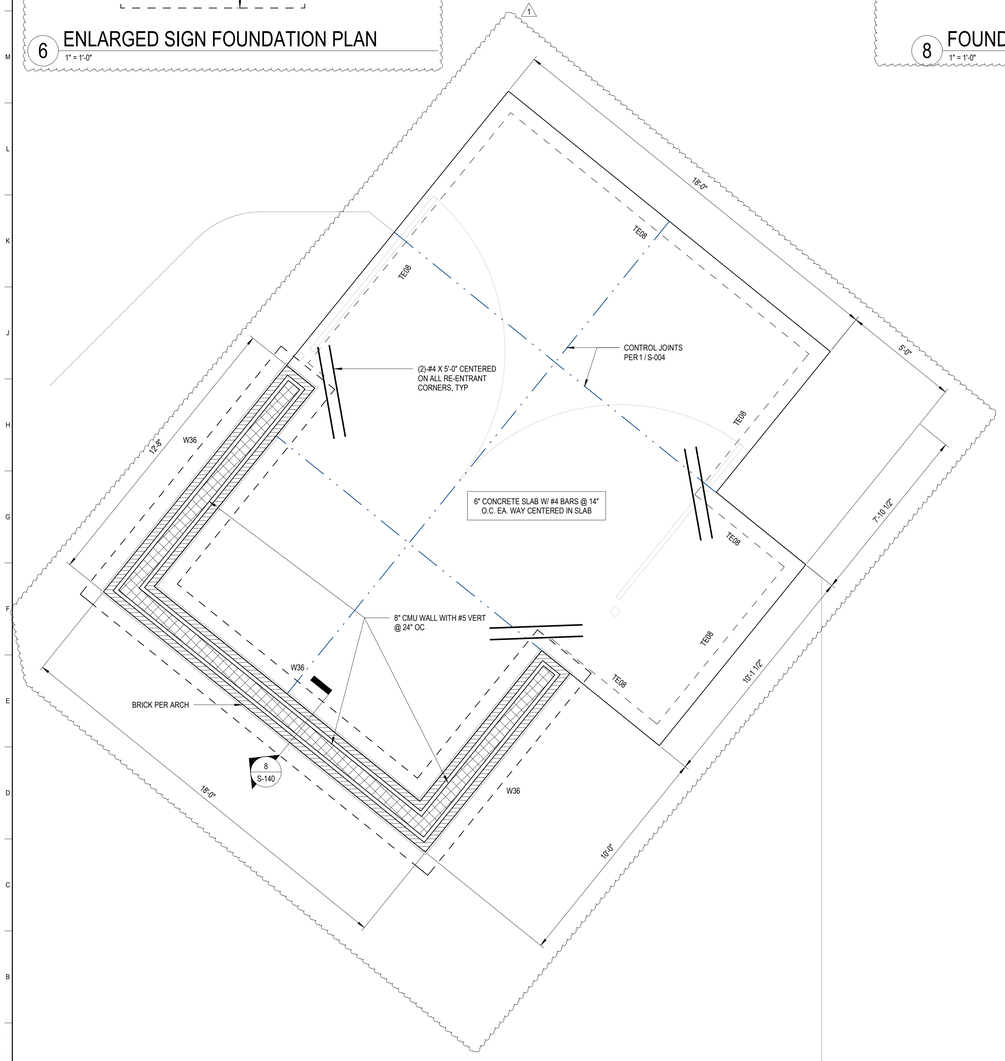
8 FOUNDATION SECTION
1" = 1'-0"



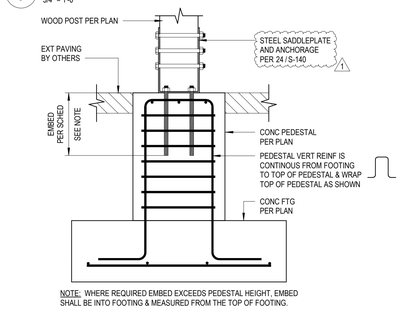
9 MAIL BOX FOUNDATION PLAN
3/4" = 1'-0"



10 MAILBOX ROOF FRAMING
3/4" = 1'-0"

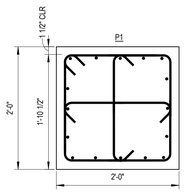


21 DUMPSTER ENCLOSURE
3/8" = 1'-0"



NOTE: WHERE REQUIRED EMBED EXCEEDS PEDESTAL HEIGHT, EMBED SHALL BE INTO FOOTING & MEASURED FROM THE TOP OF FOOTING.

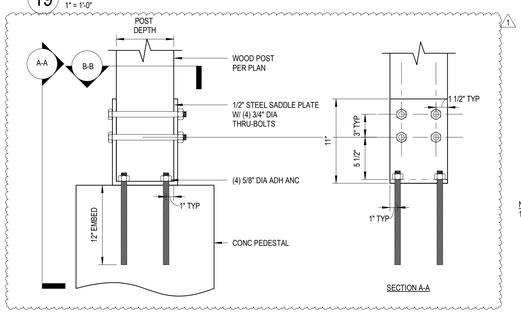
14 TYP WOOD POST ON CONC PEDESTAL
1" = 1'-0"

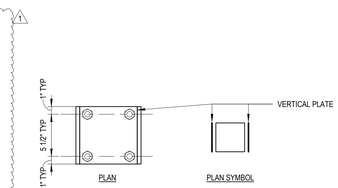


CONCRETE PEDESTAL SCHEDULE	
MARK	P2
SIZE	SEE PLAN
REINF	(12)-#5
END TIES	#3 @ 6" OC
FDN DOWLS	(12)-#5

NOTES:
1. REDUCE TIE SPACING TO 3" OC IN TOP 12" OF PEDESTAL.

19 CONCRETE PEDESTAL SCHEDULE
1" = 1'-0"





NOTES:
1. STEEL ASSEMBLY AND BOLTS SHALL BE HOT DIPPED GALVANIZED TO G90 STANDARD

SECTION B-B

24 TYP SADDLEPLATE CONNECTION
1 1/2" = 1'-0"

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Knoxville, TN 37902
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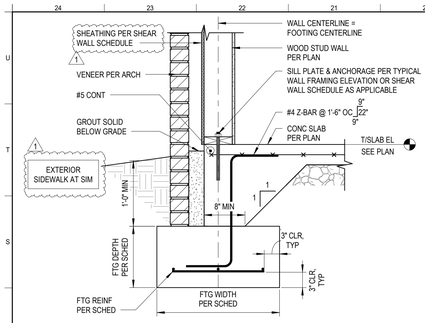
Checked By:	GRG

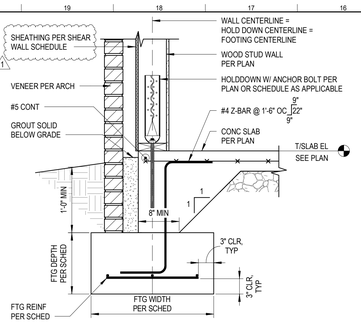
Sheet Description:

S-140
DUMPSTER ENCLOSURE, MAIL KIOSK, AND SIGNAGE PLANS & DETAILS

9/22/2022 11:34:47 AM



1 FOUNDATION SECTION
1" = 1'-0"



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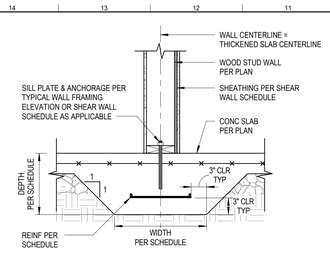
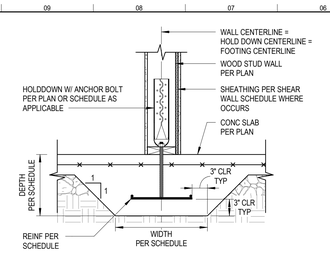
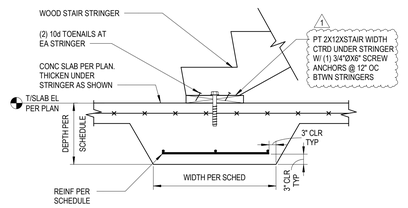
1" = 1'-0"



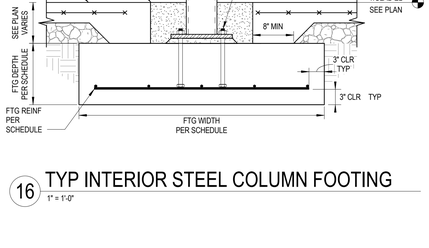
3 FOUNDATION SECTION
1" = 1'-0"



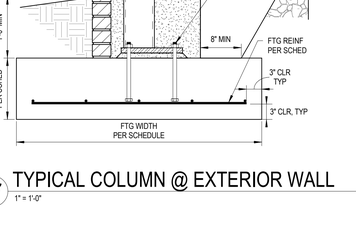
4 FOUNDATION SECTION
1" = 1'-0"



5 FOUNDATION SECTION
1" = 1'-0"



6 FOUNDATION SECTION
1" = 1'-0"

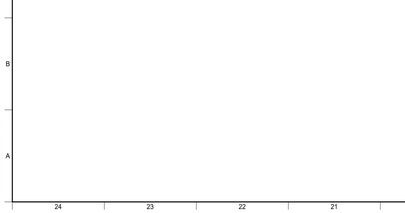


7 FOUNDATION SECTION
1" = 1'-0"

8 FOUNDATION SECTION
1" = 1'-0"

9 TYP THICKENED EDGE @ COL
1" = 1'-0"

10 FOUNDATION SECTION
1" = 1'-0"

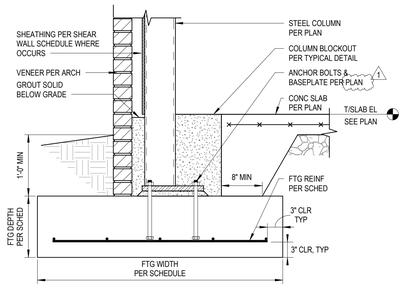


11 TYPICAL INTERIOR WALL FOOTING
1" = 1'-0"

12 TYPICAL HOLD DOWN AT INTERIOR WALL
1" = 1'-0"

13 FOUNDATION SECTION
1" = 1'-0"

16 TYP INTERIOR STEEL COLUMN FOOTING
1" = 1'-0"



17 TYPICAL COLUMN @ EXTERIOR WALL
1" = 1'-0"

NOTE: COORDINATE INSULATION REQUIREMENTS WITH ARCHITECTURAL DRAWINGS

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Knoxville, TN 37902
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713 S. CENTRAL ST., STE 101
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865.246.0164

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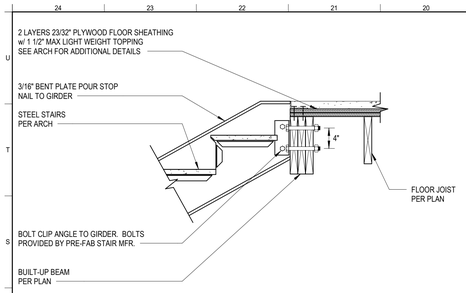
Checked By:	GRG

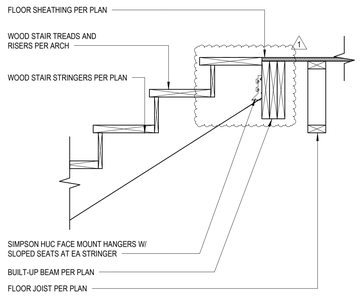
Sheet Description:

S-201

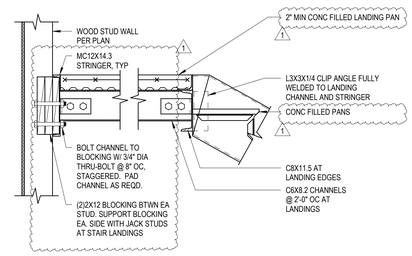
SECTIONS & DETAILS



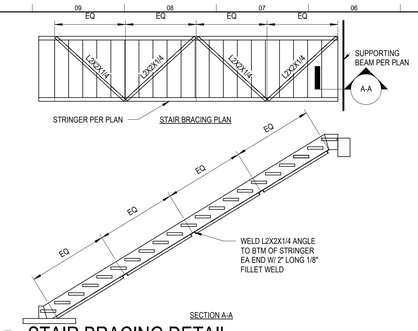
1 STAIR SECTION
1" = 1'-0"



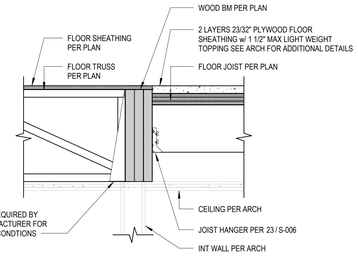
2 STAIR SECTION
1" = 1'-0"



3 STAIR SECTION
1" = 1'-0"



4 STAIR BRACING DETAIL
1/4" = 1'-0"



5 FLR SECTION
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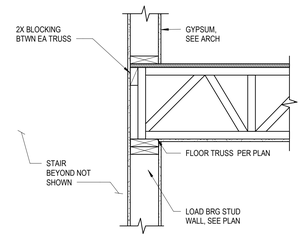
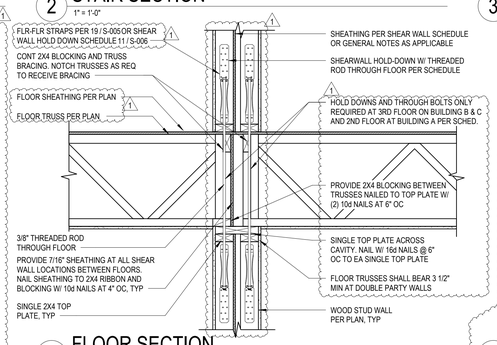
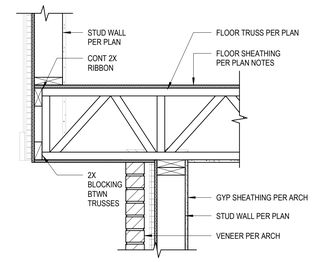


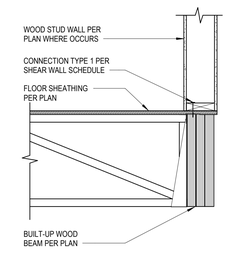
6 STAIR SECTION
1" = 1'-0"



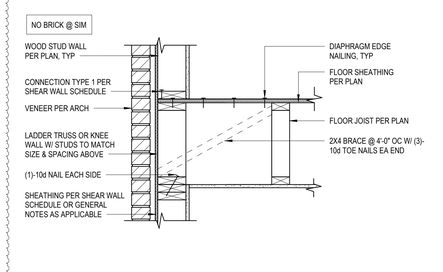
7 FLOOR SECTION
1" = 1'-0"



8 FLOOR SECTION
1" = 1'-0"



9 FLOOR SECTION
1" = 1'-0"

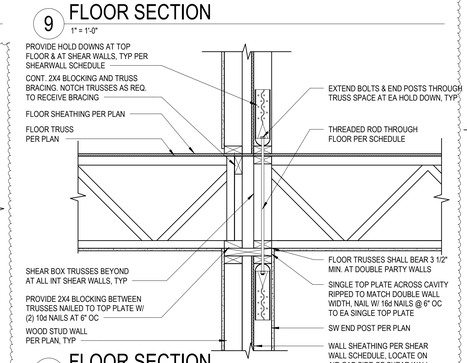


10 FLOOR SECTION
1" = 1'-0"

11 FLOOR SECTION
1" = 1'-0"

12 FLOOR SECTION
3/4" = 1'-0"

13 FLOOR SECTION
3/4" = 1'-0"



14 FLOOR SECTION
1" = 1'-0"

20 FLOOR SECTION
1" = 1'-0"

16 FLOOR SECTION
1" = 1'-0"

17 FLOOR SECTION
1" = 1'-0"

18 FLOOR SECTION
1" = 1'-0"

19 FLOOR SECTION
1" = 1'-0"

21 FLOOR SECTION
1" = 1'-0"

22 FLOOR SECTION
1" = 1'-0"

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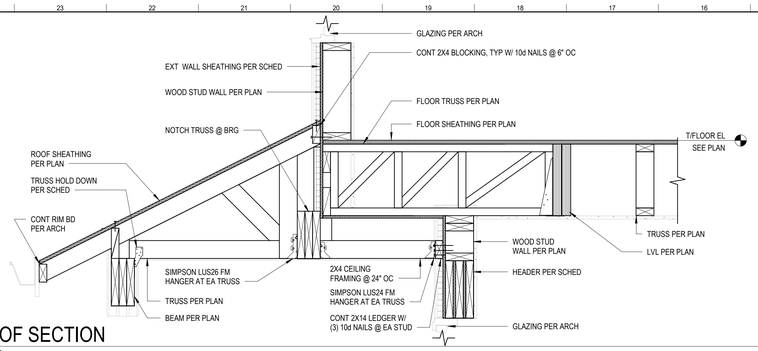
Checked By:	GRG

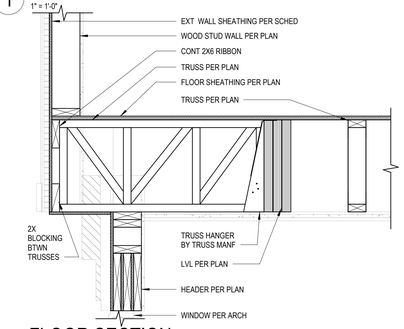
Sheet Description:

S-202

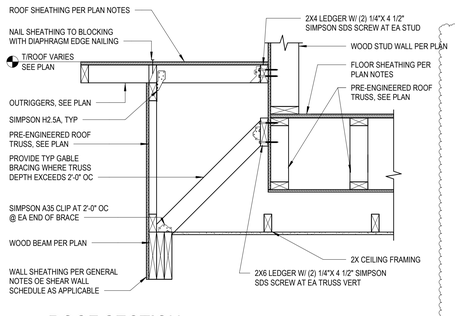
SECTIONS & DETAILS



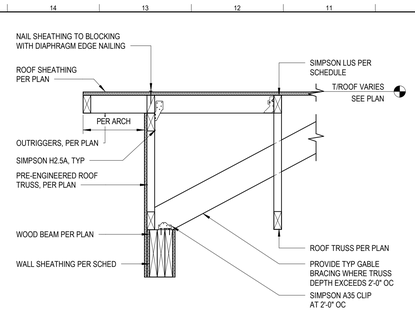
1 ROOF SECTION
1" = 1'-0"



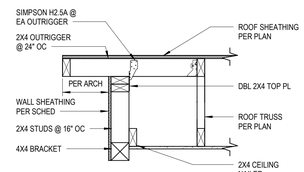
6 FLOOR SECTION
1" = 1'-0"



7 ROOF SECTION
1" = 1'-0"



3 ROOF SECTION
1" = 1'-0"



8 FRAMING SECTION
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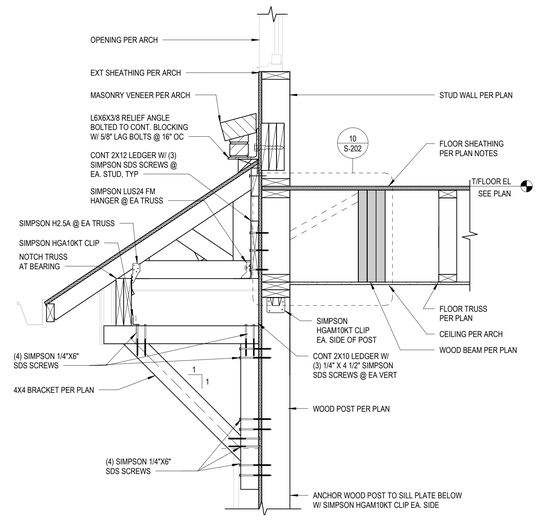

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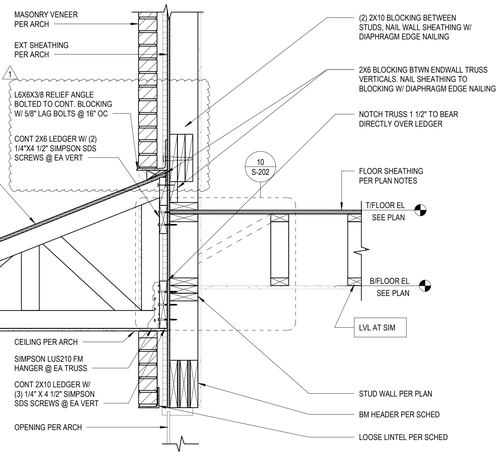

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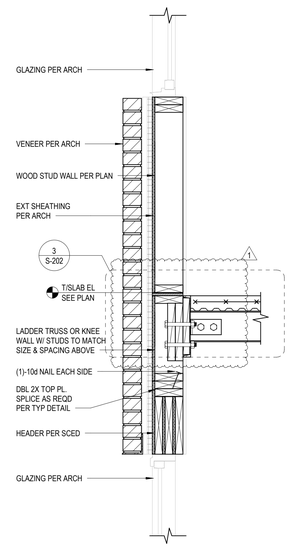

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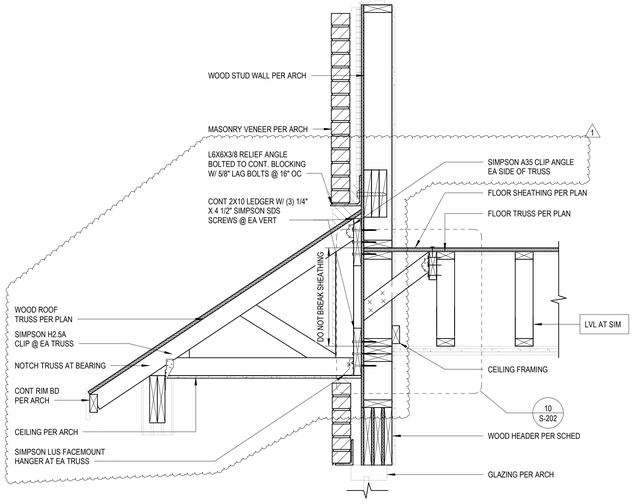

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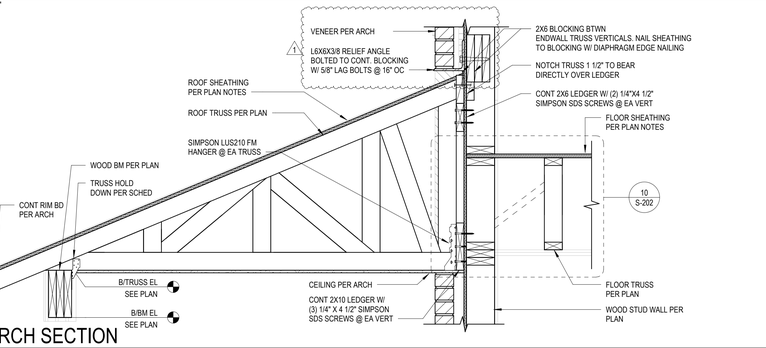

21 PORCH SECTION
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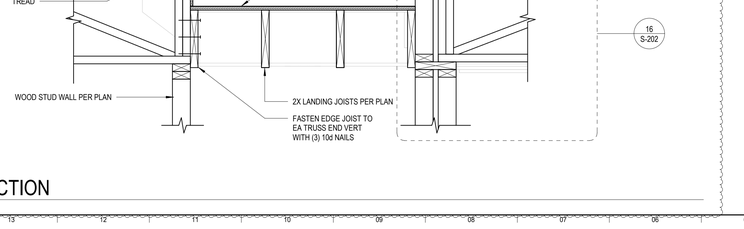


23 FRAMING SECTION
1" = 1'-0"

9/22/2022 11:34:49 AM

MHM

McCarty Holsaple McCarty, Inc.
550 W. Main St., Suite 300
Knoxville, TN 37902
t 865.544.2000
www.mhminc.com

Consultants:

CIVIL ENGINEER:

HUDDLESTON-STEELE ENGINEERING INC.
2112 N.W. BROAD ST.
MURFREESBORO, TN 37129
615.893.4084

LANDSCAPE ARCHITECT:

RAGAN SMITH
100 E. VINE ST., STE 200
MURFREESBORO, TN 37130
615.546.6050

STRUCTURAL ENGINEER:

HAINES STRUCTURAL GROUP
800 S. GAY ST., STE 1750
KNOXVILLE TN, 37929
865.329.9920

MECHANICAL & PLUMBING ENGINEER:

FACILITY SYSTEMS CONSULTANTS
713 S. CENTRAL ST., STE 101
KNOXVILLE TN, 37902
865.246.0164

ELECTRICAL ENGINEER:

FACILITY SYSTEMS CONSULTANTS
713 S. CENTRAL ST., STE 101
KNOXVILLE TN, 37902
865.246.0164

Project Information:

21026

MHA Parkside Housing
520 EAST CASTLE STREET,
MURFREESBORO, TN 37130

Seal:

Consultant:

HAINES STRUCTURAL GROUP
800 S. GAY STREET, STE. 1750 KNOXVILLE, TN 37929
(855) 329-9920 | WWW.HAINES-SG.COM
project no. 22187

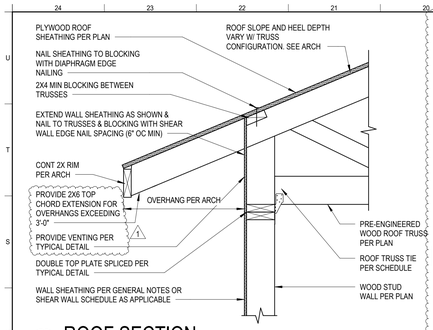
#	ISSUE	DATE
1	Revision 01 - City Comments Response	8/23/2022

Issue Date:	04/04/2022
PIC	RAH
PM	GRG
PA	G. TAYLOR
Drawn By:	CWR
Checked By:	GRG

Sheet Description:

S-203

SECTIONS & DETAILS



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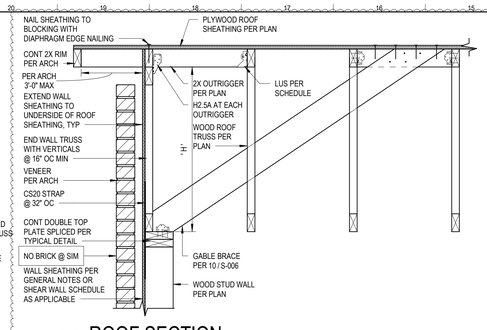

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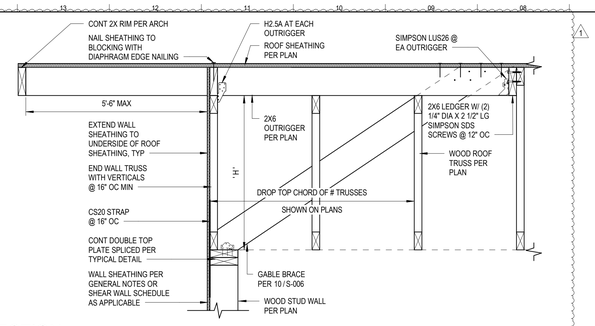

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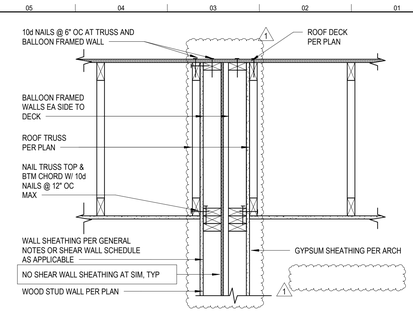

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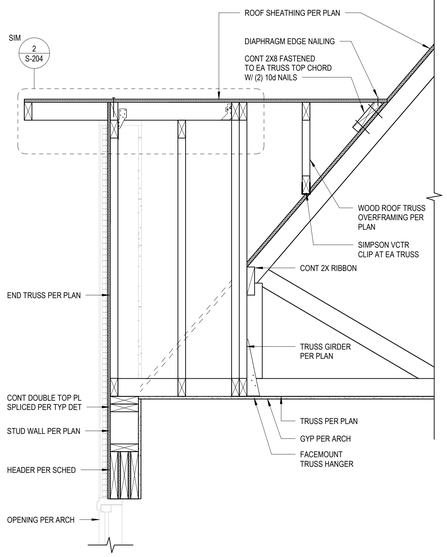

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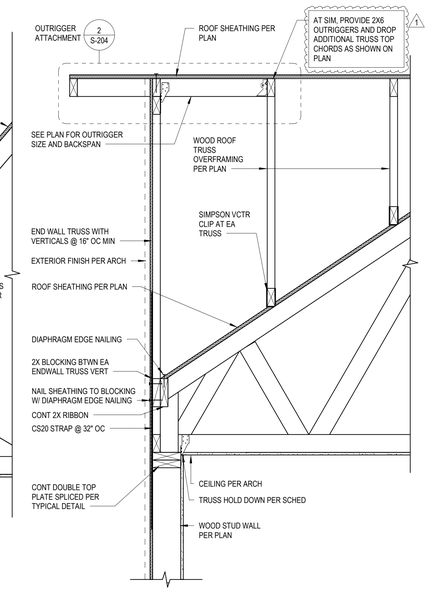

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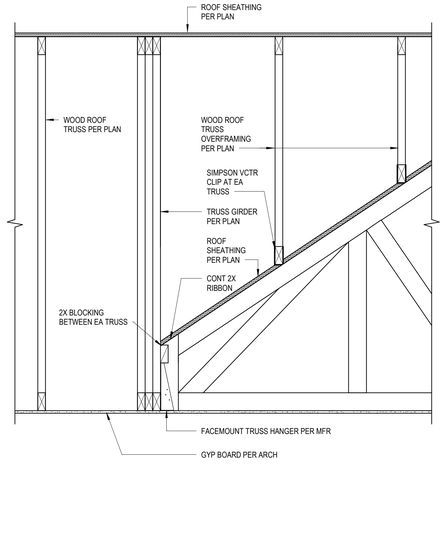

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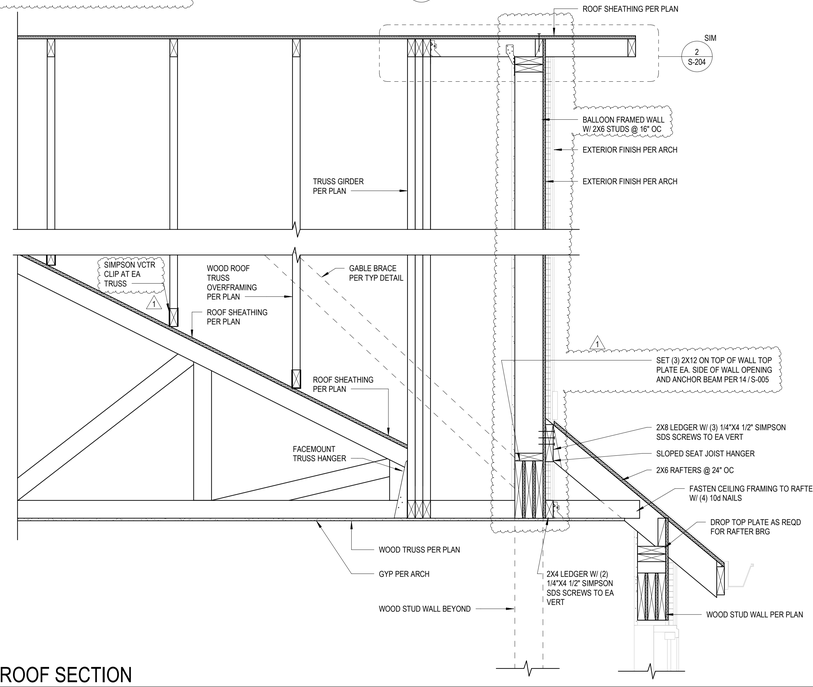

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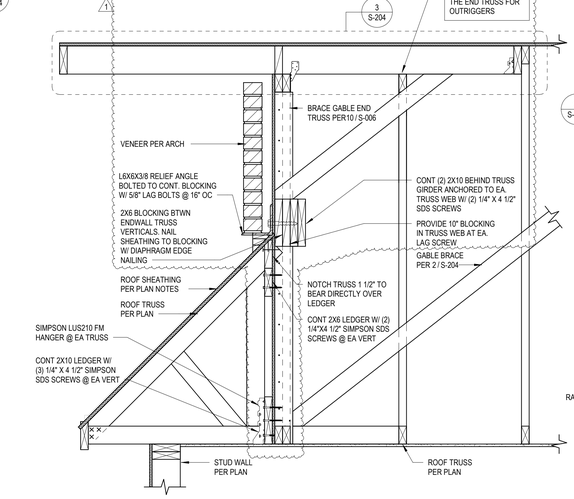

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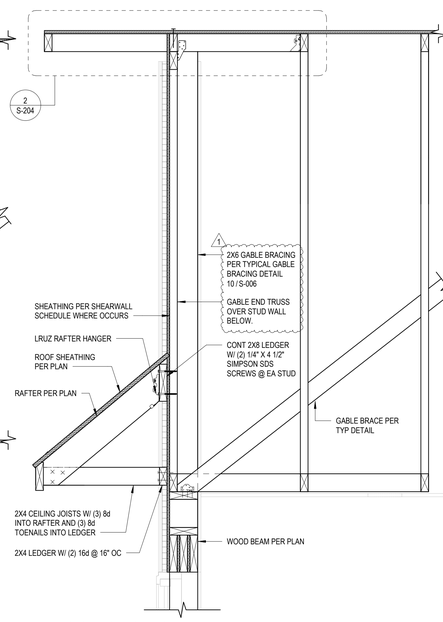

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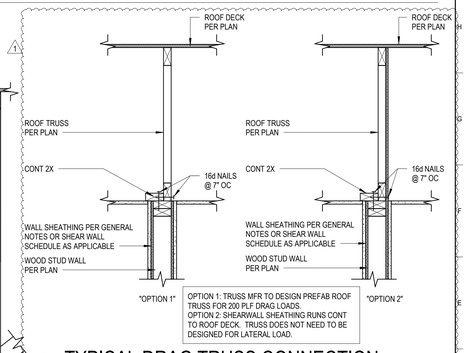

20 TYPICAL DRAG TRUSS CONNECTION
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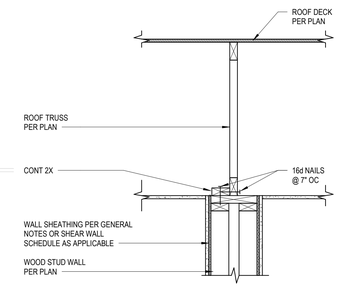

25 TYP DRAG TRUSS CONNECTION
1" = 1'-0"

21 SECTION
1" = 1'-0"

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McCarty Holsaple McCarty, Inc.
550 W. Main St., Suite 300
Knoxville, TN 37902
t 865.544.2000
www.mhminc.com

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KNOXVILLE TN, 37929
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KNOXVILLE TN, 37902
865.246.0164

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Project Information:

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Seal:

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(865) 329-9920 | WWW.HAINES-SG.COM

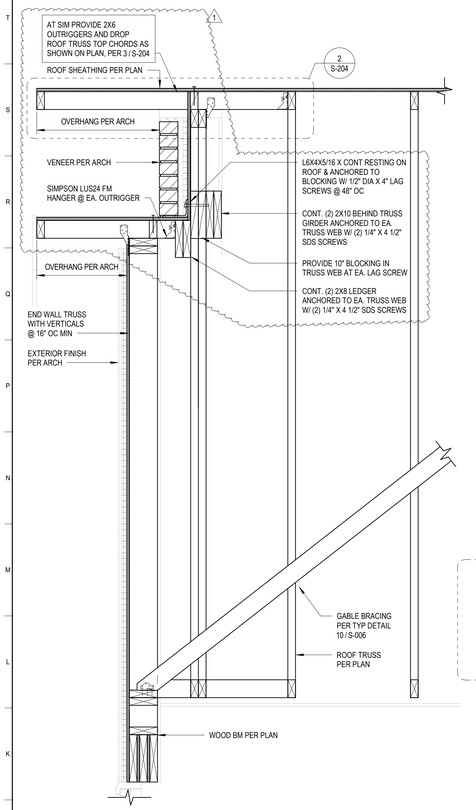
#	ISSUE	DATE
1	Revision 01 - City Comments Response	8/23/2022

Issue Date:	04/04/2022
PIC	RAH
PM	GRG
PA	G. TAYLOR
Drawn By:	CWR
Checked By:	GRG

Sheet Description:

S-204

SECTIONS & DETAILS



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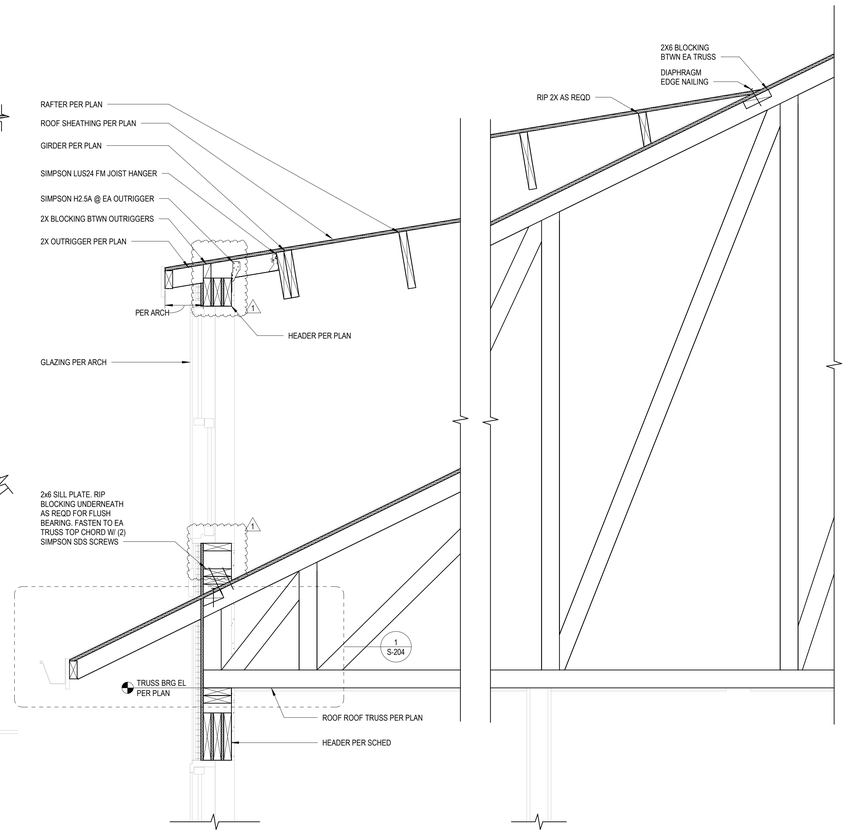

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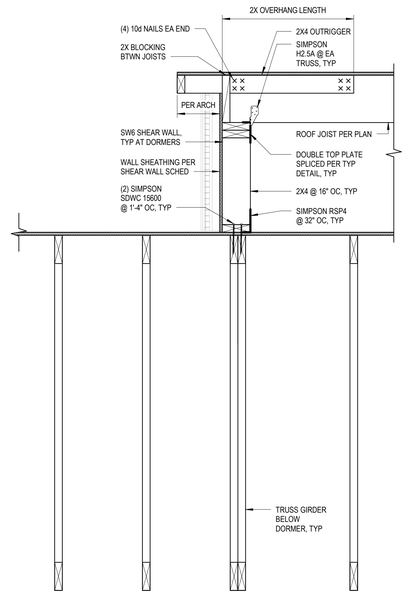

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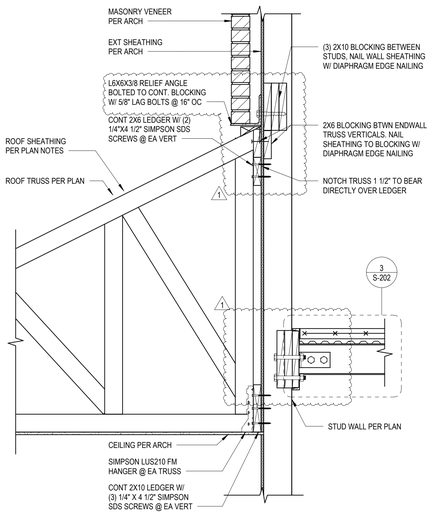

21 ROOF SECTION
1" = 1'-0"

9/22/2022 11:34:50 AM

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550 W. Main St., Suite 300
Knoxville, TN 37902
t 865.544.2000
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HAINES STRUCTURAL GROUP
800 S. GAY ST., STE 1750
KNOXVILLE TN, 37929
865.329.9920

MECHANICAL & PLUMBING ENGINEER:

FACILITY SYSTEMS CONSULTANTS
713 S. CENTRAL ST., STE 101
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Project Information:

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MHA Parkside Housing

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Seal:

Consultant:

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800 S. GAY STREET, STE. 1750 KNOXVILLE, TN 37929
(865) 329-9920 | WWW.HAINES-SG.COM
project no. 21197

#	ISSUE	DATE
1	Revision 01 - City Comments Response	8/23/2022

Issue Date:	04/04/2022
PIC	RAH
PM	GRG
PA	G. TAYLOR
Drawn By:	CWR
Checked By:	GRG

Sheet Description:

S-205

SECTIONS & DETAILS

BUILDING A

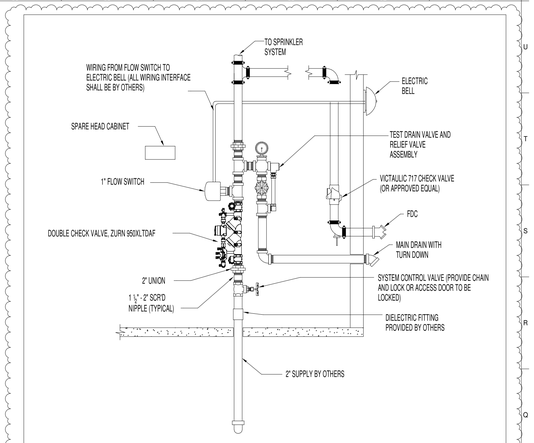
Flow test Data		
Static Pressure:	58	psi
Residual Pressure:	46	psi
Flow (GPM) :	1060	gpm
Date taken:	4/4/2022	
Time:	---	
Test taken by:	---	
Elevation of Hydrant:	---	
GPM Demand of BLDG.		
Most remote area or highest demand (Room Name)	LIGHT HAZARD	
Design Density (NFPA 13 or supplied by Insurance Co.)	0.1	
Design Area (Square footage)	1500	sq. ft.
Overage Factor (1.20 typ.)	1.2	
Remote area GPM demand(Density x Area x Overage)	180	gpm
Standpipe GPM demand (If required)(500 gpm for the first, 250 after)	0	gpm
Hose GPM demand (100 Light, 250 ordinary, 500 extra hazard)	100	gpm
Total GPM (Remote Area + Standpipe + Hose)	280	gpm
Available Pressure		
Density	0.1	
Max Sprinkler Head coverage (As per NPFA 13 table 8.6.2.2(a-d))	225	sq. ft.
Square footage spacing x Density = GPM sprinkler head (Q)	22.5	gpm
K-Factor of Sprinkler head (K)	5.6	(K)
Equation: Pressure required at head=(Q / K)2	16.14317602	psi
Elevation difference from test hydrant to base of riser x .433	10	ft
Elevation difference from base of riser to remote area x .433	20	ft
Backflow Preventer pressure drop	12	psi
Safety Factor (5 psi min.) (SF)	5	psi
Fixed Pressure drop =	46.13317602	psi
Estimated Friction Drop Thru Fire Line		
Length of run from test hydrant to riser (HR)	594	Lin. Ft.
Pipe C Factor (Ductile Iron C-100)	100	
Nominal Pipe Inside Diameter (8", 6", 4")	6	
	152188.1342	
	30874262.29	
Friction loss in pipe (psi/ft) (Based on Hazen William Equation)(HW1)	0.004929288	psi/ft
HR x 1.30 x HW1 =	3.806396284	Est. psi/sqft
Length of run from riser to last sprinkler head (estimated.) (RS)	101	Lin. Ft.
Base of Riser to farthest sprinkler	20	
Pipe C Factor (Black Steel C-120)	120	
Nominal Pipe Inside Diameter (6", 4")	4	
	67203.6048	
	6005061.547	
Friction loss in pipe (psi/ft) (Based on Hazen William Equation)(HW2)	0.01119116	psi/ft
RS x 1.30 x HW2 =	1.469399313	Est. psi/sqft
Estimated Required Flow Data for Building	3.806396284	
Required GPM	280	gpm
Required psi	49.9395723	psi

BUILDING B

Flow test Data		
Static Pressure:	58	psi
Residual Pressure:	46	psi
Flow (GPM) :	1060	gpm
Date taken:	4/4/2022	
Time:	---	
Test taken by:	---	
Elevation of Hydrant:	---	
GPM Demand of BLDG.		
Most remote area or highest demand (Room Name)	LIGHT HAZARD	
Design Density (NFPA 13 or supplied by Insurance Co.)	0.1	
Design Area (Square footage)	1500	sq. ft.
Overage Factor (1.20 typ.)	1.2	
Remote area GPM demand(Density x Area x Overage)	180	gpm
Standpipe GPM demand (If required)(500 gpm for the first, 250 after)	0	gpm
Hose GPM demand (100 Light, 250 ordinary, 500 extra hazard)	100	gpm
Total GPM (Remote Area + Standpipe + Hose)	280	gpm
Available Pressure		
Density	0.1	
Max Sprinkler Head coverage (As per NPFA 13 table 8.6.2.2(a-d))	225	sq. ft.
Square footage spacing x Density = GPM sprinkler head (Q)	22.5	gpm
K-Factor of Sprinkler head (K)	5.6	(K)
Equation: Pressure required at head=(Q / K)2	16.14317602	psi
Elevation difference from test hydrant to base of riser x .433	10	ft
Elevation difference from base of riser to remote area x .433	20	ft
Backflow Preventer pressure drop	12	psi
Safety Factor (5 psi min.) (SF)	5	psi
Fixed Pressure drop =	46.13317602	psi
Estimated Friction Drop Thru Fire Line		
Length of run from test hydrant to riser (HR)	580	Lin. Ft.
Pipe C Factor (Ductile Iron C-100)	100	
Nominal Pipe Inside Diameter (8", 6", 4")	6	
	152188.1342	
	30874262.29	
Friction loss in pipe (psi/ft) (Based on Hazen William Equation)(HW1)	0.004929288	psi/ft
HR x 1.30 x HW1 =	3.71668324	Est. psi/sqft
Length of run from riser to last sprinkler head (estimated.) (RS)	124	Lin. Ft.
Base of Riser to farthest sprinkler	20	
Pipe C Factor (Black Steel C-120)	120	
Nominal Pipe Inside Diameter (6", 4")	4	
	67203.6048	
	6005061.547	
Friction loss in pipe (psi/ft) (Based on Hazen William Equation)(HW2)	0.01119116	psi/ft
RS x 1.30 x HW2 =	1.804014998	Est. psi/sqft
Estimated Required Flow Data for Building	3.71668324	
Required GPM	280	gpm
Required psi	49.84985926	psi

BUILDING C

Flow test Data		
Static Pressure:	58	psi
Residual Pressure:	46	psi
Flow (GPM) :	1060	gpm
Date taken:	4/4/2022	
Time:	---	
Test taken by:	---	
Elevation of Hydrant:	---	
GPM Demand of BLDG.		
Most remote area or highest demand (Room Name)	LIGHT HAZARD	
Design Density (NFPA 13 or supplied by Insurance Co.)	0.1	
Design Area (Square footage)	1500	sq. ft.
Overage Factor (1.20 typ.)	1.2	
Remote area GPM demand(Density x Area x Overage)	180	gpm
Standpipe GPM demand (If required)(500 gpm for the first, 250 after)	0	gpm
Hose GPM demand (100 Light, 250 ordinary, 500 extra hazard)	100	gpm
Total GPM (Remote Area + Standpipe + Hose)	280	gpm
Available Pressure		
Density	0.1	
Max Sprinkler Head coverage (As per NPFA 13 table 8.6.2.2(a-d))	225	sq. ft.
Square footage spacing x Density = GPM sprinkler head (Q)	22.5	gpm
K-Factor of Sprinkler head (K)	5.6	(K)
Equation: Pressure required at head=(Q / K)2	16.14317602	psi
Elevation difference from test hydrant to base of riser x .433	10	ft
Elevation difference from base of riser to remote area x .433	20	ft
Backflow Preventer pressure drop	12	psi
Safety Factor (5 psi min.) (SF)	5	psi
Fixed Pressure drop =	46.13317602	psi
Estimated Friction Drop Thru Fire Line		
Length of run from test hydrant to riser (HR)	600	Lin. Ft.
Pipe C Factor (Ductile Iron C-100)	100	
Nominal Pipe Inside Diameter (8", 6", 4")	6	
	152188.1342	
	30874262.29	
Friction loss in pipe (psi/ft) (Based on Hazen William Equation)(HW1)	0.004929288	psi/ft
HR x 1.30 x HW1 =	3.844844731	Est. psi/sqft
Length of run from riser to last sprinkler head (estimated.) (RS)	102	Lin. Ft.
Base of Riser to farthest sprinkler	20	
Pipe C Factor (Black Steel C-120)	120	
Nominal Pipe Inside Diameter (6", 4")	4	
	67203.6048	
	6005061.547	
Friction loss in pipe (psi/ft) (Based on Hazen William Equation)(HW2)	0.01119116	psi/ft
RS x 1.30 x HW2 =	1.483947821	Est. psi/sqft
Estimated Required Flow Data for Building	3.844844731	
Required GPM	280	gpm
Required psi	49.97802075	psi



RESIDENTIAL 13R WET PIPE RISER DETAIL

NO SCALE

1

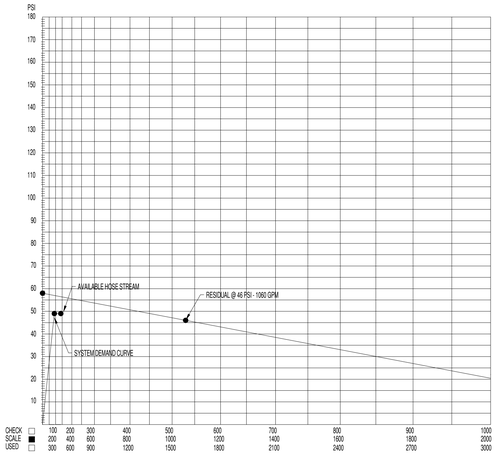
SPRINKLER HEAD LEGEND

SYMBOL	TYPE	TEMP	K	MAX PRESSURE	MANUFACTURE	MODEL	SERIES	COMMENTS
⊙	PENDENT	155°	4.9	175	TYCO	TY2234	LFII	RESIDENTIAL

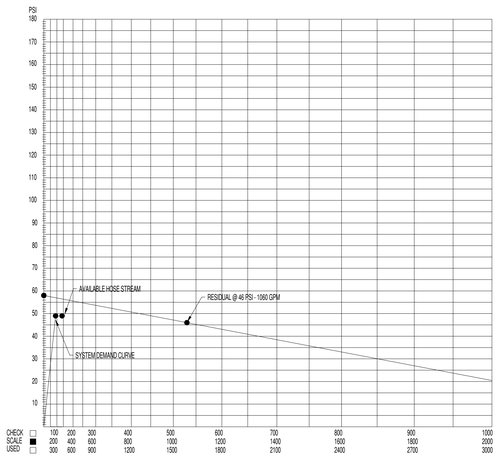
* PROVIDE ALL BRACING, SUPPORTS AND HANGERS PER NFPA 13 - 2019 EDITION
* "WG" DENOTES WIRE GUARD
* COORDINATE SPRINKLER HEAD FINISH WITH ARCHITECT

FIRE SPRINKLER SYSTEM NOTES:

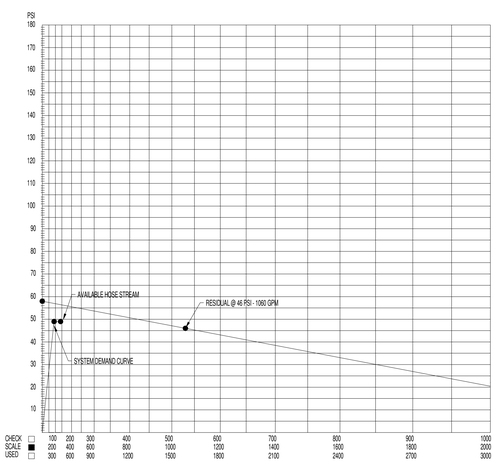
1. FIRE SPRINKLER CONTRACTOR SHALL PROVIDE A FIRE SPRINKLER SYSTEM DESIGN COMPLIANT WITH ALL APPLICABLE PROVISIONS OF NFPA 13R 2019 EDITION. FURNISH AND INSTALL A WET SPRINKLER SYSTEM THROUGHOUT THE BUILDING.
2. THESE DRAWINGS ARE SCHEMATIC FOR DESIGN INTENT ONLY AND THE DESIGN-BUILD CONTRACTOR IS RESPONSIBLE FOR A COMPLETE AND FUNCTIONAL SYSTEM WITH ANY NECESSARY APPURTENANCES.
3. FIRE SPRINKLER SHOP DRAWINGS (2 SETS OF WORKING PLANS, PRODUCT DATA AND HYDRAULIC CALCULATIONS) ARE TO BE SUBMITTED FOR REVIEW AFTER THE ENGINEER OF RECORD IS SATISFIED THAT THE SHOP DRAWINGS SATISFY THE REQUIREMENTS OF THE NFPA 13 AND THE PROJECT DOCUMENTS. THE ENGINEER OF RECORD SHALL CITE SUCH APPROVAL ON THE SHOP DRAWINGS.
4. ALL DETAIL DESIGN DRAWINGS AND CALCULATIONS SHALL BE SEALED BY A SPRINKLER SYSTEM ENGINEER OR R.M.E. LICENSED IN THE STATE OF TENNESSEE.
5. THE SPACES ARE CLASSIFIED AS "RESIDENTIAL" THROUGHOUT SYSTEM. DESIGN CALCULATIONS SHALL INCLUDE SPRINKLERS TO PROVIDE A DESIGN DENSITY OF 0.05 GPM/FT ^{2} FOR THESE OCCUPANCIES.
6. PIPE AND FITTINGS
   - A. DUCTILE-IRON PIPE: AWWA C151, PUSH-ON-JOINT TYPE, WITH CEMENT-MORTAR LINING AND SEAL COAT ACCORDING TO AWWA C104. INCLUDE RUBBER GASKET ACCORDING TO AWWA C111.
   - AA. DUCTILE-IRON PIPE: AWWA C151, MECHANICAL-JOINT TYPE, WITH CEMENT-MORTAR LINING AND SEAL COAT ACCORDING TO AWWA C104. INCLUDE GLAD, RUBBER ACCORDING TO NFPA 1963 AND MATCHING LOCAL FIRE DEPARTMENT SIZES AND THREADS, AND BOTTOM OUTLET WITH PIPE THREADS. INCLUDE BRASS, LUGGED CAPS, GASKETS, AND BRASS CHAINS; BRASS, LUGGED SWIVEL CONNECTION AND DROP CLAPPER FOR EACH HOSE CONNECTION
   - INLET; EIGHTEEN (18") INCH (460-MM) HIGH BRASS SLEEVE; AND ROUND, FLOOR, BRASS, ESCUTCHEON PLATE WITH MARKING SLEEVE; AND ROUND, FLOOR, BRASS, ESCUTCHEON PLATE WITH MARKING "AUTO SPKR."
     1. FINISH INCLUDING SLEEVE: POLISHED CHROME-PLATED.
     2. FINISH INCLUDING SLEEVE: ROUGH CHROME-PLATED.
     3. FINISH INCLUDING SLEEVE: POLISHED BRASS.
   - C. STEEL PIPE: ERW OR CW SCHEDULE 10 OR 40. ALL FITTINGS SHALL COMPLY WITH NFPA 13.
   - D. (WHERE APPLICABLE) BLAZEMASTER (FM APPROVED) CPVC SDR 13.5 CPVC PIPE AND FITTINGS (OR APPROVED EQUAL)
7. ALL SYSTEM VALVES AND GAUGES SHALL BE ACCESSIBLE FOR OPERATION, INSPECTION, TEST, AND MAINTENANCE.
8. COORDINATE LOCATION OF SPRINKLER WITH ALL OTHER DISCIPLINES. SPRINKLER HEADS SHALL BE CENTER OR QUARTERED IN CEILING TILE UNLESS NOTED OTHERWISE. ALL SPRINKLERS IN GRID CEILING TO BE ON RETURN BENDS OR UTILIZE FLEXIBLE SPRINKLER DROP (VICTAULIC AGCC OR APPROVED EQUAL).
9. COORDINATE WITH THE ELECTRICAL CONTRACTOR FOR INSTALLATION AND MONITORING OF ALL TAMPER AND FLOW SWITCHES. FLOW SWITCHES AND ALARM CHECK VALVES SHALL BE CONNECTED TO GENERAL FIRE ALARM AND SHALL SOUND WITHIN 90 SECONDS OF FLOW.
10. CONTRACTOR SHALL SUPPLY FLEXIBLE PIPE COUPLINGS ON ALL PIPES 2" OR LARGER AT ALL FLEXIBLE JOINTS PER NFPA 13. FLEXIBLE COUPLINGS SHALL ALSO BE PROVIDED WITHIN 1' OF BOTH SIDES OF STRUCTURAL ELEMENTS THAT PIPING PASSES THROUGH.
11. ALL PIPING SHALL HAVE HANGERS INSTALLED PER NFPA 13.
12. SPARE HEAD CABINET SHALL BE LOCATED AS CLOSE TO RISER AS POSSIBLE AND MUST CONTAIN A MINIMUM OF SIX HEADS. THIS SHALL INCLUDE TWO SPRINKLER HEADS OF EACH TYPE AND TEMPERATURE RATING.
13. A 100 GPM HOSE STREAM SHALL BE ADDED TO THE SPRINKLER REQUIREMENTS FOR COMBINED INSIDE AND OUTSIDE HOSE, AT THE POINT OF CONNECTION TO THE SYSTEM.
14. ALLOW 10 PSI PRESSURE LOSS SAFETY FACTOR FOR REDUCTION OR FLUCTUATION OF WATER PRESSURE.
15. PENETRATION OF FIRE AND SMOKE BARRIERS/PARTITIONS SHALL BE ADEQUATELY SEALED/PROTECTED.



BUILDING A HYDRAULIC GRAPH



BUILDING B HYDRAULIC GRAPH



BUILDING C HYDRAULIC GRAPH

MHM

McCarty Holsaple McCarty, Inc.
550 W. Main St., Suite 300
Knoxville, TN 37902
t 865.544.2000
www.mhminc.com

Consultants:

CIVIL ENGINEER:

HUDDLESTON-STEELE ENGINEERING INC.
2112 N.W. BROAD ST.
MURFREESBORO, TN 37129
615.893.4084

LANDSCAPE ARCHITECT:

RAGAN SMITH
100 E. VINE ST., STE 200
MURFREESBORO, TN 37130
615.546.6050

STRUCTURAL ENGINEER:

HAINES STRUCTURAL GROUP
800 S. GAY ST., STE 1750
KNOXVILLE TN, 37929
865.329.9920

MECHANICAL & PLUMBING ENGINEER:

FACILITY SYSTEMS CONSULTANTS
713 S. CENTRAL ST., STE 101
KNOXVILLE TN, 37902
865.246.0164

ELECTRICAL ENGINEER:

FACILITY SYSTEMS CONSULTANTS
713 S. CENTRAL ST., STE 101
KNOXVILLE TN, 37902
865.246.0164

Project Information:

21026

MHA Parkside Housing

550 W. MAIN ST. KNOXVILLE, TN 37919

Consultant:

FACILITY SYSTEMS CONSULTANTS, LLC
713 South Central Street, Suite 101
Knoxville, Tennessee 37902
Phone: (865) 246-0164
Fax: (865) 246-1084

#	ISSUE	DATE
1	REVISION 01 - CITY COMMENTS RESPONSE	8/23/2022

Issue Date:	04.07.2022
PIC	M. BUTLER
PM	M. BUTLER
PA	G. TAYLOR
Drawn By:	Author
Checked By:	L.T.HEADLA/J.W.HOLIWAY

Sheet Description:

FP-001

FIRE PROTECTION SCHEDULES AND DETAILS

8/15/2022 11:13:05 AM

1 BUILDING A - FIRST FLOOR FIRE PROTECTION
1/4" = 1'-0"

NOTE:
ALIGN ALL SPRINKLER HEADS WITH LIGHT FIXTURES, WHEREVER POSSIBLE.

4/7/2022 3:29:42 PM

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McCarty Holsaple McCarty, Inc.
550 W. Main St., Suite 300
Knoxville, TN 37902
t 865.544.2000
www.mhminc.com

Consultants:

CIVIL ENGINEER:
HUDDLESTON-STEELE ENGINEERING INC.
2112 N.W. BROAD ST.
MURFREESBORO, TN 37129
615.893.4084

LANDSCAPE ARCHITECT:
RAGAN SMITH
100 E. VINE ST., STE 200
MURFREESBORO, TN 37130
615.546.6050

STRUCTURAL ENGINEER:
HAINES STRUCTURAL GROUP
800 S. GAY ST., STE 1750
KNOXVILLE TN, 37929
865.329.9920

MECHANICAL & PLUMBING ENGINEER:
FACILITY SYSTEMS CONSULTANTS
713 S. CENTRAL ST., STE 101
KNOXVILLE TN, 37902
865.246.0164

ELECTRICAL ENGINEER:
FACILITY SYSTEMS CONSULTANTS
713 S. CENTRAL ST., STE 101
KNOXVILLE TN, 37902
865.246.0164

Project Information:

21026

MHA Parkside Housing

550 W. MAIN ST. KNOXVILLE, TN 37919

JASON W. HOLIWAY
REGISTERED ENGINEER
AGRICULTURE COMMERCE
No. 109448
STATE OF TENNESSEE
04/07/2022

Consultant:

FACILITY SYSTEMS CONSULTANTS, LLC

#	ISSUE	DATE

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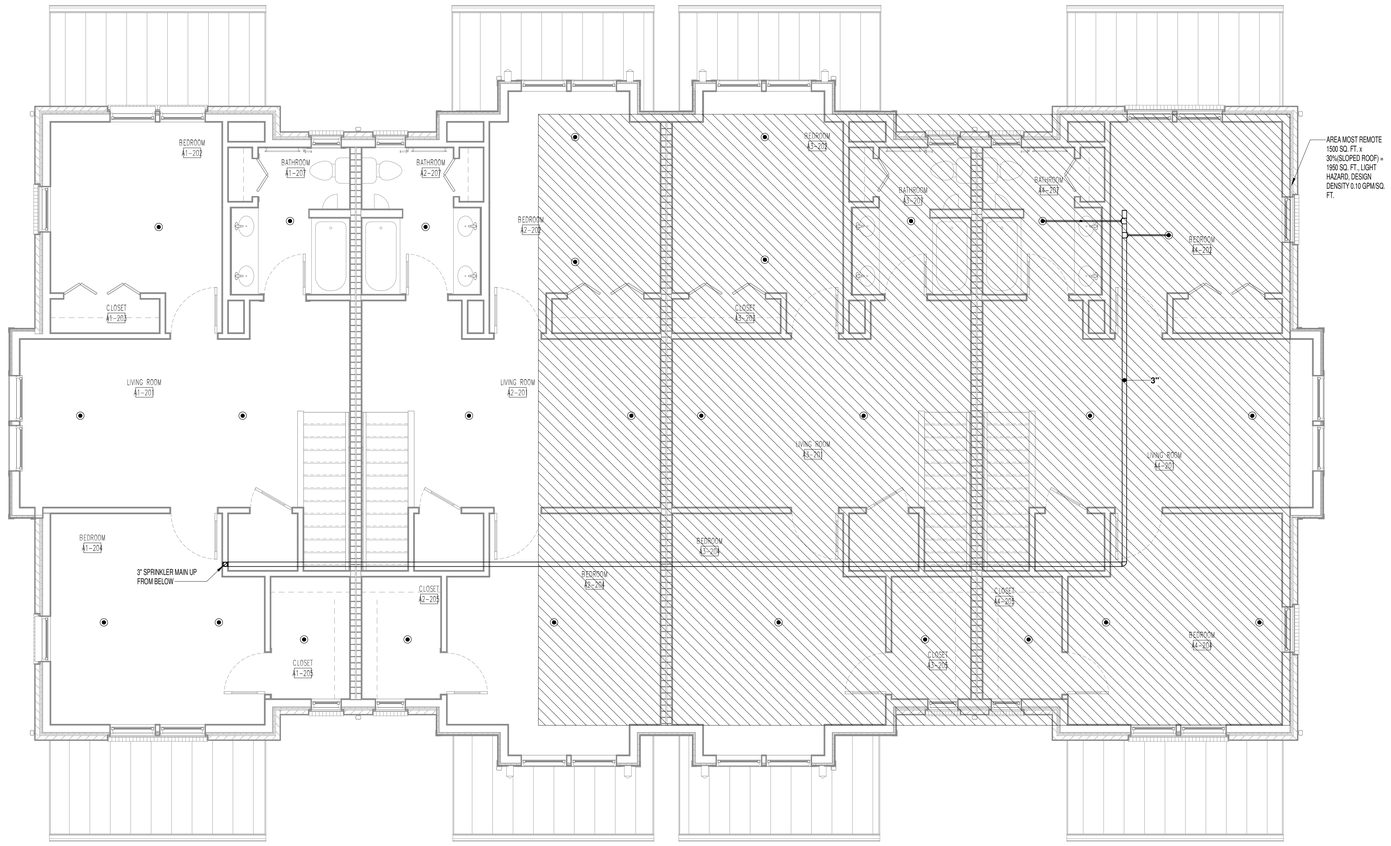
PIC	M. BUTLER
PM	M. BUTLER
PA	G. TAYLOR
Drawn By:	Author
Checked By:	L.T.HEADLA/J.W.HOLIWAY

Sheet Description:

FP-110

BUILDING A - FIRST FLOOR FIRE PROTECTION



1 BUILDING A - SECOND FLOOR FIRE PROTECTION
1/4" = 1'-0"

NOTE:
ALIGN ALL SPRINKLER HEADS WITH LIGHT FIXTURES, WHEREVER POSSIBLE.

4/7/2022 3:29:46 PM

MHM

McCarty Holsaple McCarty, Inc.
550 W. Main St., Suite 300
Knoxville, TN 37902
t 865.544.2000
www.mhminc.com

Consultants:

CIVIL ENGINEER:

HUDDLESTON-STEELE ENGINEERING INC.
2112 N.W. BROAD ST.
MURFREESBORO, TN 37129
615.893.4084

LANDSCAPE ARCHITECT:

RAGAN SMITH
100 E. VINE ST., STE 200
MURFREESBORO, TN 37130
615.546.6050

STRUCTURAL ENGINEER:

HAINES STRUCTURAL GROUP
800 S. GAY ST., STE 1750
KNOXVILLE TN, 37929
865.329.9920

MECHANICAL & PLUMBING ENGINEER:

FACILITY SYSTEMS CONSULTANTS
713 S. CENTRAL ST., STE 101
KNOXVILLE TN, 37902
865.246.0164

ELECTRICAL ENGINEER:

FACILITY SYSTEMS CONSULTANTS
713 S. CENTRAL ST., STE 101
KNOXVILLE TN, 37902
865.246.0164

Project Information:

21026

MHA Parkside Housing

550 W. MAIN ST. KNOXVILLE, TN 37919

JASON W. HOLIWAY — REGISTERED — LICENSED — AGRICULTURE — 04/04/2022 — No. 109448 — STATE OF TENNESSEE

Consultant:

FACILITY SYSTEMS CONSULTANTS, LLC
713 South Central Street, Suite 101
Knoxville, Tennessee 37902
Phone: (865) 246-0164
Fax: (865) 246-1984

#	ISSUE	DATE

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PIC	M. BUTLER
PM	M. BUTLER
PA	G. TAYLOR
Drawn By:	Author
Checked By:	L.T.HEADLA/J.W.HOLIWAY

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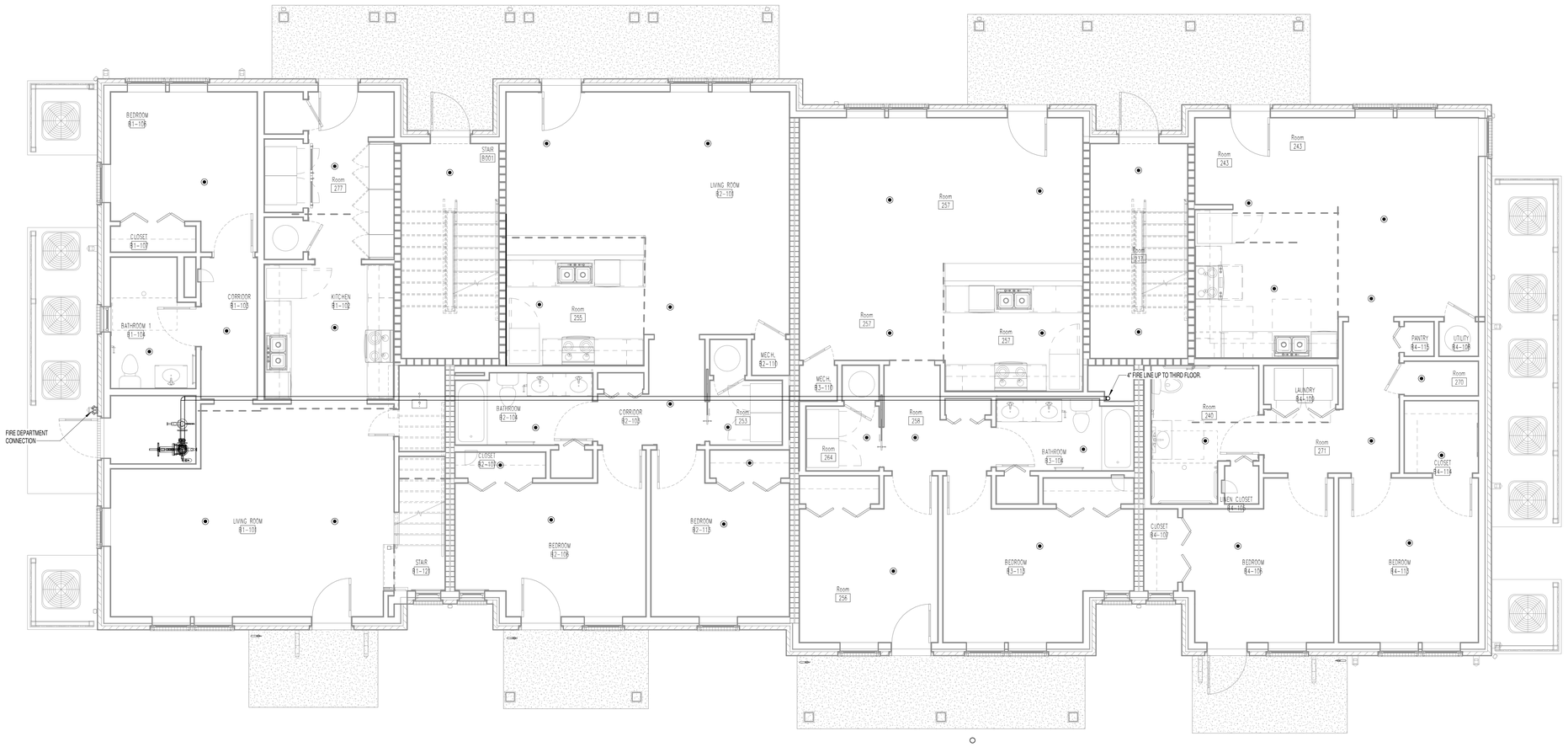
FP-111

BUILDING A - SECOND FLOOR FIRE PROTECTION



1 BUILDING B - FIRST FLOOR FIRE PROTECTION
1/4" = 1'-0"

NOTE:
ALIGN ALL SPRINKLER HEADS WITH LIGHT FIXTURES, WHEREVER POSSIBLE.

4/7/2022 3:29:50 PM

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McCarty Holsaple McCarty, Inc.
550 W. Main St., Suite 300
Knoxville, TN 37902
t 865.544.2000
www.mhminc.com

Consultants:

CIVIL ENGINEER:

HUDDLESTON-STEELE ENGINEERING INC.
2112 N.W. BROAD ST.
MURFREESBORO, TN 37129
615.893.4084

LANDSCAPE ARCHITECT:

RAGAN SMITH
100 E. VINE ST., STE 200
MURFREESBORO, TN 37130
615.546.6050

STRUCTURAL ENGINEER:

HAINES STRUCTURAL GROUP
800 S. GAY ST., STE 1750
KNOXVILLE TN, 37929
865.329.9920

MECHANICAL & PLUMBING ENGINEER:

FACILITY SYSTEMS CONSULTANTS
713 S. CENTRAL ST., STE 101
KNOXVILLE TN, 37902
865.246.0164

ELECTRICAL ENGINEER:

FACILITY SYSTEMS CONSULTANTS
713 S. CENTRAL ST., STE 101
KNOXVILLE TN, 37902
865.246.0164

Project Information:

21026

MHA Parkside Housing

550 W. MAIN ST. KNOXVILLE, TN 37919

JASON W. HOLIWAY
REGISTERED
LANDSCAPE
ARCHITECT
AGRICULTURE
04/04/2022
No. 109445
STATE OF TENNESSEE

Consultant:

FACILITY SYSTEMS CONSULTANTS, LLC
713 South Central Street, Suite 101
Knoxville, Tennessee 37902
Phone: (865) 246-0164
Fax: (865) 246-1984

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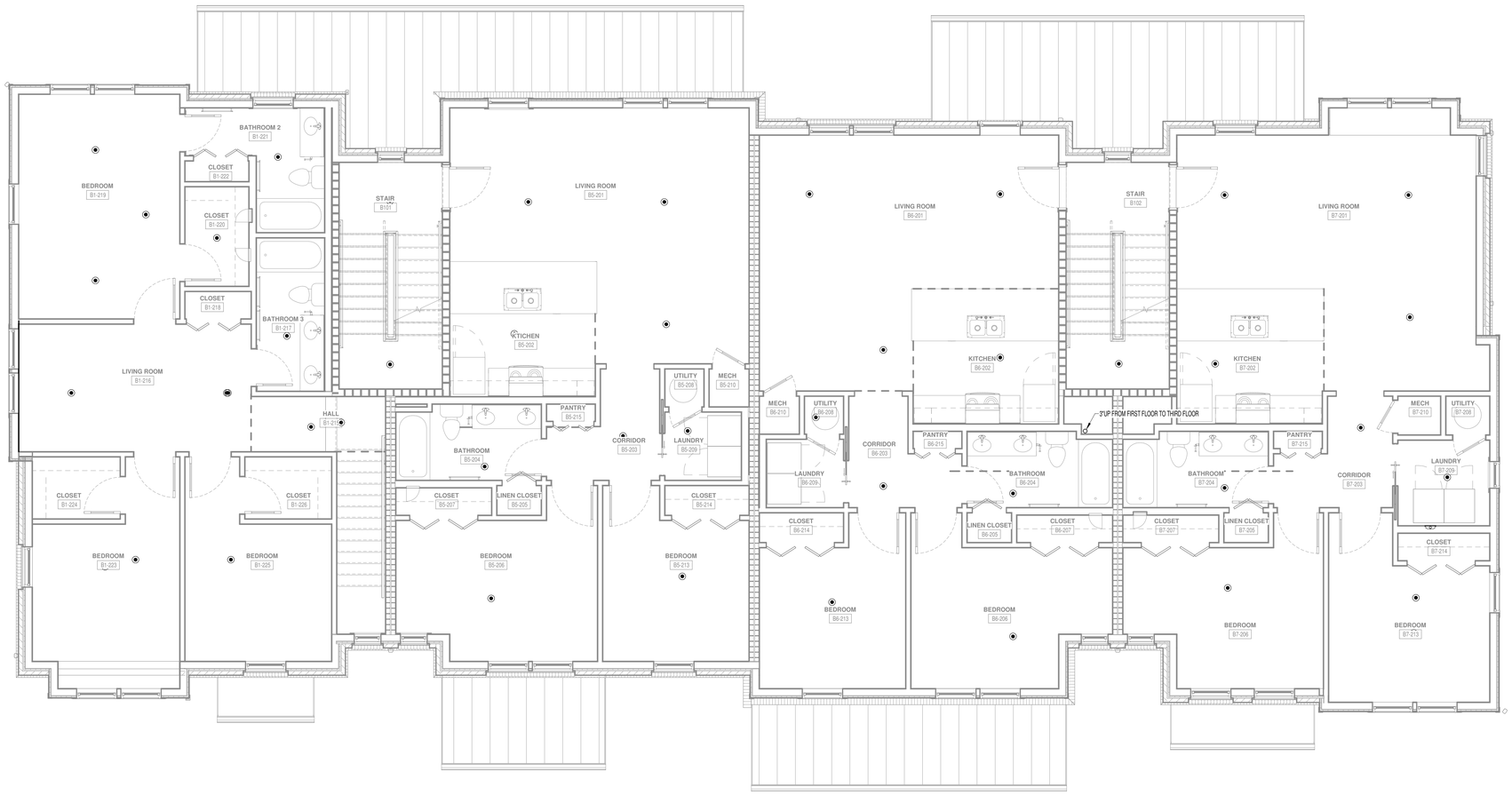
PIC	M. BUTLER
PM	M. BUTLER
PA	G. TAYLOR
Drawn By:	Author
Checked By:	L.T.HEADLA/J.W.HOLIWAY

Sheet Description:

FP-120

BUILDING B - FIRST FLOOR FIRE PROTECTION



1 BUILDING B - SECOND FLOOR FIRE PROTECTION
1/4" = 1'-0"

NOTE:
ALIGN ALL SPRINKLER HEADS WITH LIGHT FIXTURES, WHEREVER POSSIBLE.

4/7/2022 3:29:54 PM

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McCarty Holsaple McCarty, Inc.
550 W. Main St., Suite 300
Knoxville, TN 37902
t 865.544.2000
www.mhminc.com

Consultants:

CIVIL ENGINEER:

HUDDLESTON-STEELE ENGINEERING INC.
2112 N.W. BROAD ST.
MURFREESBORO, TN 37129
615.893.4084

LANDSCAPE ARCHITECT:

RAGAN SMITH
100 E. VINE ST., STE 200
MURFREESBORO, TN 37130
615.546.6050

STRUCTURAL ENGINEER:

HAINES STRUCTURAL GROUP
800 S. GAY ST., STE 1750
KNOXVILLE TN, 37929
865.329.9920

MECHANICAL & PLUMBING ENGINEER:

FACILITY SYSTEMS CONSULTANTS
713 S. CENTRAL ST., STE 101
KNOXVILLE TN, 37902
865.246.0164

ELECTRICAL ENGINEER:

FACILITY SYSTEMS CONSULTANTS
713 S. CENTRAL ST., STE 101
KNOXVILLE TN, 37902
865.246.0164

Project Information:

21026

MHA Parkside Housing
550 W. MAIN ST. KNOXVILLE, TN 37919

JON W. HOLIWAY — REGISTERED — AGRICULTURE — 04/04/2022 — NO. 109446 — STATE OF TENNESSEE

Consultant:

FACILITY SYSTEMS CONSULTANTS, LLC
713 South Central Street, Suite 101
Knoxville, Tennessee 37902
Phone: (865) 246-0164
Fax: (865) 246-1684

#	ISSUE	DATE

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PIC	M. BUTLER
PM	M. BUTLER
PA	G. TAYLOR
Drawn By:	Author
Checked By:	L.T.HEADLA/J.W.HOLIWAY

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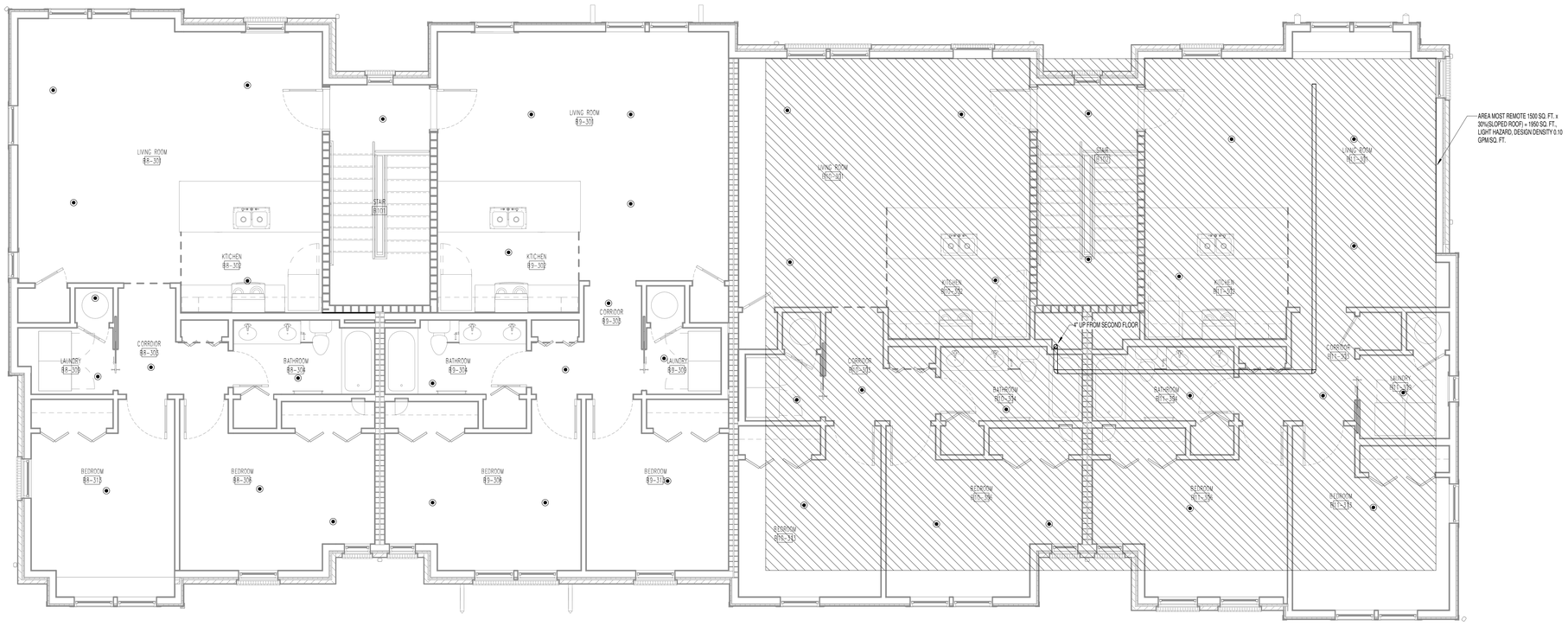
FP-121

BUILDING B - SECOND FLOOR FIRE PROTECTION



1 BUILDING B - THIRD FLOOR FIRE PROTECTION
1/4" = 1'-0"

NOTE:
ALIGN ALL SPRINKLER HEADS WITH LIGHT FIXTURES, WHEREVER POSSIBLE.

4/7/2022 3:29:59 PM

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McCarty Holsaple McCarty, Inc.
550 W. Main St., Suite 300
Knoxville, TN 37902
t 865.544.2000
www.mhminc.com

Consultants:

CIVIL ENGINEER:

HUDDLESTON-STEELE ENGINEERING INC.
2112 N.W. BROAD ST.
MURFREESBORO, TN 37129
615.893.4084

LANDSCAPE ARCHITECT:

RAGAN SMITH
100 E. VINE ST., STE 200
MURFREESBORO, TN 37130
615.546.6050

STRUCTURAL ENGINEER:

HAINES STRUCTURAL GROUP
800 S. GAY ST., STE 1750
KNOXVILLE TN, 37929
865.329.9920

MECHANICAL & PLUMBING ENGINEER:

FACILITY SYSTEMS CONSULTANTS
713 S. CENTRAL ST., STE 101
KNOXVILLE TN, 37902
865.246.0164

ELECTRICAL ENGINEER:

FACILITY SYSTEMS CONSULTANTS
713 S. CENTRAL ST., STE 101
KNOXVILLE TN, 37902
865.246.0164

Project Information:

21026

MHA Parkside Housing

550 W. MAIN ST. KNOXVILLE, TN 37919

JON W. HOLIWAY — REGISTERED — 109448 — AGRICULTURE — 04/07/2022 — STATE OF TENNESSEE

Consultant:

FACILITY SYSTEMS CONSULTANTS, LLC
713 South Central Street, Suite 101
Knoxville, Tennessee 37902
Phone: (865) 246-0164
Fax: (865) 246-1984

#	ISSUE	DATE

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PA	G. TAYLOR
Drawn By:	Author
Checked By:	L.T.HEADLA/J.W.HOLIWAY

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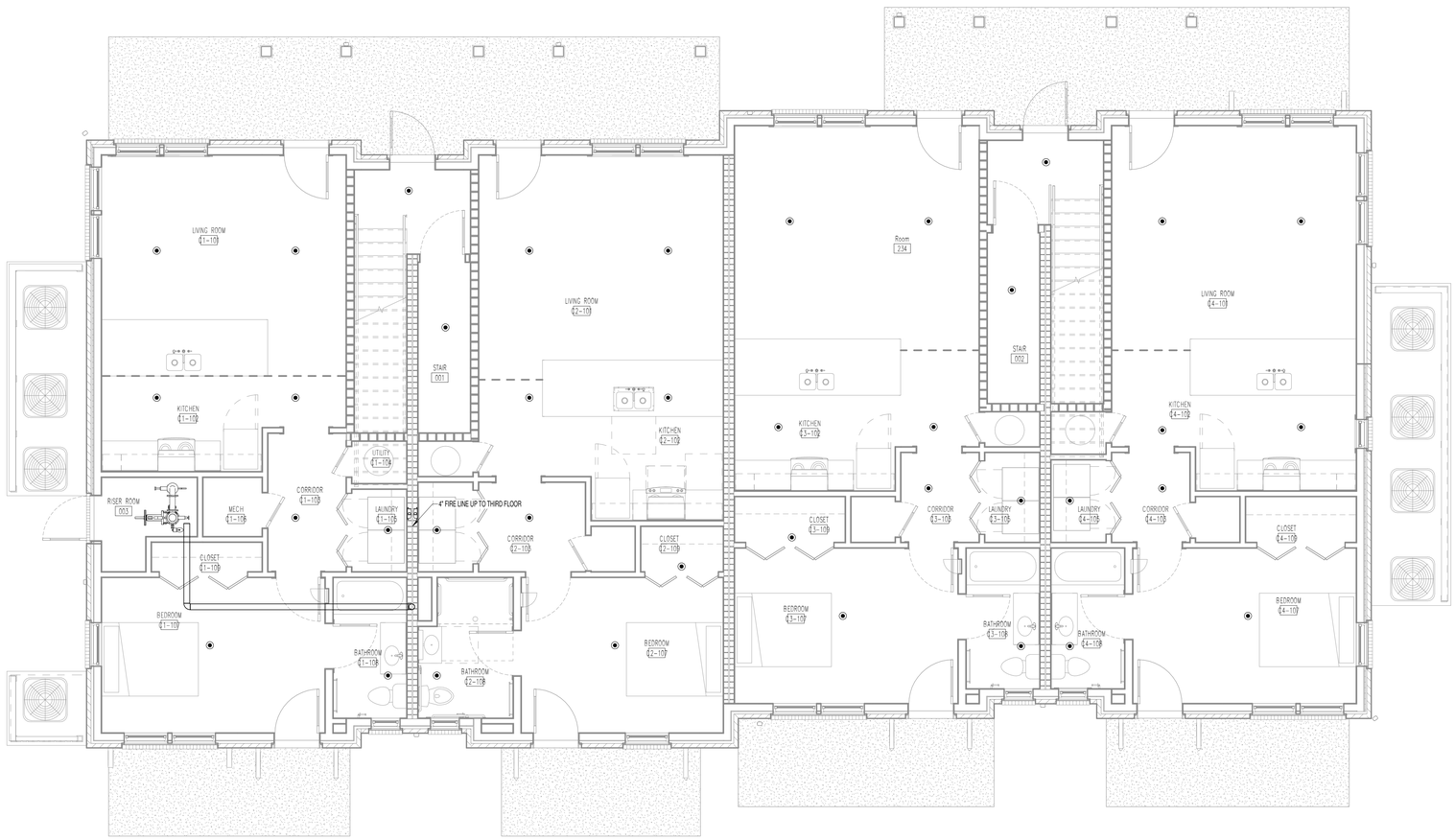
FP-122

BUILDING B - THIRD FLOOR FIRE PROECTION



1 BUILDING C - FIRST FLOOR FIRE PROTECTION
1/4" = 1'-0"

NOTE:
ALIGN ALL SPRINKLER HEADS WITH LIGHT FIXTURES, WHEREVER POSSIBLE.

4/7/2022 3:30:04 PM

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McCarty Holsaple McCarty, Inc.
550 W. Main St., Suite 300
Knoxville, TN 37902
t 865.544.2000
www.mhminc.com

Consultants:

CIVIL ENGINEER:

HUDDLESTON-STEELE ENGINEERING INC.
2112 N.W. BROAD ST.
MURFREESBORO, TN 37129
615.893.4084

LANDSCAPE ARCHITECT:

RAGAN SMITH
100 E. VINE ST., STE 200
MURFREESBORO, TN 37130
615.546.6050

STRUCTURAL ENGINEER:

HAINES STRUCTURAL GROUP
800 S. GAY ST., STE 1750
KNOXVILLE TN, 37929
865.329.9920

MECHANICAL & PLUMBING ENGINEER:

FACILITY SYSTEMS CONSULTANTS
713 S. CENTRAL ST., STE 101
KNOXVILLE TN, 37902
865.246.0164

ELECTRICAL ENGINEER:

FACILITY SYSTEMS CONSULTANTS
713 S. CENTRAL ST., STE 101
KNOXVILLE TN, 37902
865.246.0164

Project Information:

21026

MHA Parkside Housing
550 W. MAIN ST. KNOXVILLE, TN 37919

JASON W. HOLIWAY — REGISTERED — DESIGN PROFESSIONAL — DEPARTMENT OF AGRICULTURE — 04/07/2022 — LICENSED — NO. 107548 — STATE OF TENNESSEE

Consultant:

FACILITY SYSTEMS CONSULTANTS, LLC
713 South Central Street, Suite 101
Knoxville, Tennessee 37902
Phone: (865) 246-0164
Fax: (865) 246-0164

#	ISSUE	DATE

Issue Date:	04.07.2022
PIC	M. BUTLER
PM	M. BUTLER
PA	G. TAYLOR
Drawn By:	Author
Checked By:	L.T.HEADLA/J.W.HOLIWAY

Sheet Description:

FP-130

BUILDING C - FIRST FLOOR FIRE PROTECTION

1 BUILDING C - SECOND FLOOR FIRE PROTECTION
1/4" = 1'-0"

NOTE:
ALIGN ALL SPRINKLER HEADS WITH LIGHT FIXTURES, WHEREVER POSSIBLE.

4/7/2022 3:30:08 PM

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McCarty Holsaple McCarty, Inc.
550 W. Main St., Suite 300
Knoxville, TN 37902
t 865.544.2000
www.mhminc.com

Consultants:

CIVIL ENGINEER:

HUDDLESTON-STEELE ENGINEERING INC.
2112 N.W. BROAD ST.
MURFREESBORO, TN 37129
615.893.4084

LANDSCAPE ARCHITECT:

RAGAN SMITH
100 E. VINE ST., STE 200
MURFREESBORO, TN 37130
615.546.6050

STRUCTURAL ENGINEER:

HAINES STRUCTURAL GROUP
800 S. GAY ST., STE 1750
KNOXVILLE TN, 37929
865.329.9920

MECHANICAL & PLUMBING ENGINEER:

FACILITY SYSTEMS CONSULTANTS
713 S. CENTRAL ST., STE 101
KNOXVILLE TN, 37902
865.246.0164

ELECTRICAL ENGINEER:

FACILITY SYSTEMS CONSULTANTS
713 S. CENTRAL ST., STE 101
KNOXVILLE TN, 37902
865.246.0164

Project Information:

21026

MHA Parkside Housing

550 W. MAIN ST. KNOXVILLE, TN 37919

JASON W. HOLIWAY — REGISTERED PROFESSIONAL — DEPARTMENT OF AGRICULTURE — 04/07/2022 — LICENSED — No. 1094 — STATE OF TENNESSEE

Consultant:

FACILITY SYSTEMS CONSULTANTS, LLC
713 South Central Street, Suite 101
Knoxville, Tennessee 37902
Phone: (865) 246-0164
Fax: (865) 246-1644

#	ISSUE	DATE

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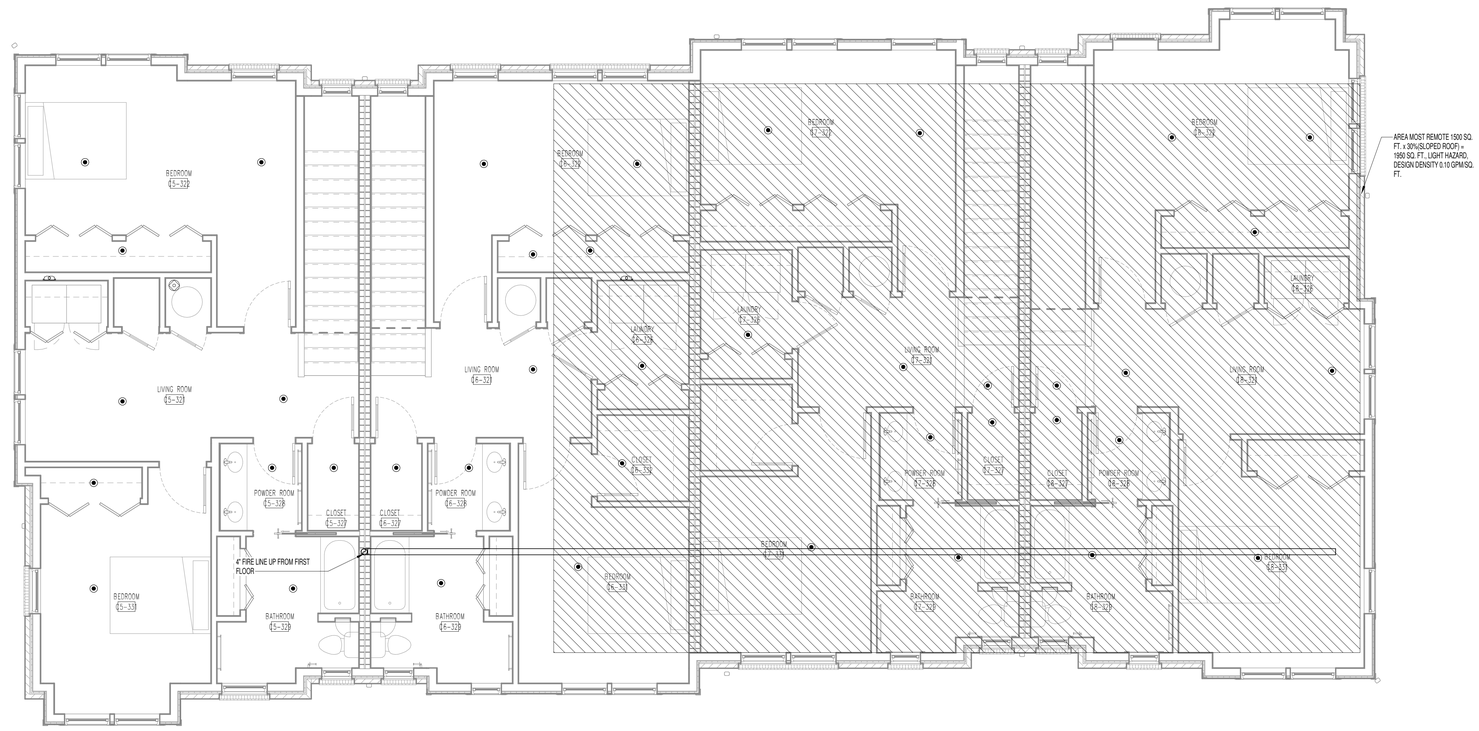
PIC	M. BUTLER
PM	M. BUTLER
PA	G. TAYLOR
Drawn By:	Author
Checked By:	L.T.HEADLA/J.W.HOLIWAY

Sheet Description:

FP-131

BUILDING C - SECOND FLOOR FIRE PROTECTION



1 BUILDING C - THIRD FLOOR FIRE PROTECTION
1/4" = 1'-0"

NOTE:
ALIGN ALL SPRINKLER HEADS WITH LIGHT FIXTURES, WHEREVER POSSIBLE.

4/7/2022 3:30:12 PM

MHM

McCarty Holsaple McCarty, Inc.
550 W. Main St., Suite 300
Knoxville, TN 37902
t 865.544.2000
www.mhminc.com

Consultants:

CIVIL ENGINEER:

HUDDLESTON-STEELE ENGINEERING INC.
2112 N.W. BROAD ST.
MURFREESBORO, TN 37129
615.893.4084

LANDSCAPE ARCHITECT:

RAGAN SMITH
100 E. VINE ST., STE 200
MURFREESBORO, TN 37130
615.546.6050

STRUCTURAL ENGINEER:

HAINES STRUCTURAL GROUP
800 S. GAY ST., STE 1750
KNOXVILLE TN, 37929
865.329.9920

MECHANICAL & PLUMBING ENGINEER:

FACILITY SYSTEMS CONSULTANTS
713 S. CENTRAL ST., STE 101
KNOXVILLE TN, 37902
865.246.0164

ELECTRICAL ENGINEER:

FACILITY SYSTEMS CONSULTANTS
713 S. CENTRAL ST., STE 101
KNOXVILLE TN, 37902
865.246.0164

Project Information:

21026

MHA Parkside Housing
550 W. MAIN ST. KNOXVILLE, TN 37919

JON W. HOLIWAY — REGISTERED — 04-7-2022 — AGRICULTURE — LICENSED PROFESSIONAL ENGINEER — No. 109448 — STATE OF TENNESSEE

Consultant:

FACILITY SYSTEMS CONSULTANTS, LLC
713 South Central Street, Suite 101
Knoxville, Tennessee 37902
Phone: (865) 246-0164
Fax: (865) 246-1964

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PIC	M. BUTLER
PM	M. BUTLER
PA	G. TAYLOR
Drawn By:	Author
Checked By:	L.T.HEADLA/J.W.HOLIWAY

Sheet Description:

FP-132

BUILDING C - THIRD FLOOR FIRE PROTECTION

PLUMBING FIXTURE SCHEDULE

DESIGNATION	FIXTURE TYPE	MANUFACTURER	MODEL#	DESCRIPTION	NOTES
FCO	CLEANOUT	ZURN	ZN1400	DURA-COAT CAST IRON ADJUSTABLE CLEANOUT WITH NICKEL BRONZE TOP	
GCO	CLEANOUT	ZURN	Z1400	DURA-COAT CAST IRON ADJUSTABLE CLEANOUT WITH HEAVY DUTY CAST IRON TOP	
WCO	CLEANOUT ACCESS COVER	ZURN ZURN	Z1445 Z1469	CLEANOUT TEE, DURA-COATED CAST IRON BODY W/ A GAS AND WATERTIGHT ABS TAPERED THREAD PLUG ROUND STAINLESS STEEL ACCESS OVER W/ SECURING SCREW	
FD1	FLOOR DRAIN	ZURN	ZN415B	DURA-COATED CAST IRON BODY FLOOR DRAIN WITH 5" POLISHED NICKEL BRONZE STRAINER	
WC1	WATER CLOSET SEAT SUPPLY CONNECTION SIZES	NIAGRA ZURN ZURN	N7717 / N7714TFH Z5958SS ZH8824-CR-LK	"THE ORIGINAL", ADA, TWO PIECE, VITREOUS CHINA SINGLE FLUSH WATER CLOSET- 0.8 GPF WHITE, CLOSED FRONT TOILET SEAT W/ COVER AND STAINLESS STEEL CHECK HINGE ANGLE SUPPLY W/LOOSE KEY STOP WASTE 3", VENT 2", CW 1/2" NOTE: CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFICATION OF ACTIVATION MECHANISMS LOCATION PER ADA REQUIREMENTS	
L1	SINK FAUCET DRAIN TRAP SUPPLIES CONNECTION SIZES UFAS FAUCET	 OLYMPIA MOEN	 L7422 84763	INTEGRATED SINK BY ARCH TWO HANDLE LAVATORY WIDESPREAD FAUCET. 4" REACH, 5" FROM DECK TO AERATOR. CERAMIC DISC CARTRIDGES 1.2GPM FLOW BRASS POP-UP DRAIN ASSEMBLY 1-1/2" CAST BRASS P-TRAP W/C.O. PLUG ANGLE SUPPLIES W/LOOSE KEY STOPS WASTE 1-1/4" VENT 1-1/4" H & CW 1/2" "GENTA" SERIES TWO HANDLE WIDESPREAD FAUCET. 1.2GPM FLOW.	
KS1	SINK FAUCET DRAIN P-TRAP CONTINUOUS WASTE SUPPLIES CONNECTION SIZES	ELKAY KOHLER DEARBORN BRASS ZURN ZURN ZURN	LWFDB332284 K-R22141 816 Z8702-PC Z8751 Z8804-XL-LRLKQ-PC	ELKAY 20 GUAGE STAINLESS STEEL 33"X22"X8" DOUBLE BOWL SINK. CENTER DRAIN LOCATION KITCHEN SINK GOOSE NECK FAUCET WITH SIDESPRAY. 1.5GPM CERAMIC DISK CARTRIDGE, METAL SINGLE LEVER HANDLE AND MATCHING SIDE SPRAY BRASS DEEP LOCKING CUP SINK BASKET STRAINER. FITS 3-1/2" TO 4" OPENING 1-1/2" CAST BRASS 17 GAUGE P-TRAP WITH CLEANOUT 1-1/2" 20 GAUGE CONTINUOUS WASTE END OUTLET WITH CAST BRASS TEE 1/2" X 3/8" COMP X COMP LAVATORY SUPPLY KIT WITH ESCUTCHEONS, 1/4 TURN CHROME PLATED STOPS AND CHROME PLATED COPPER TUBE SUPPLY LINES CW 1/2",HW 1/2",WASTE 1-1/2",VENT 1-1/2"	
KS2 UFAS	SINK FAUCET DRAIN P-TRAP CONTINUOUS WASTE SUPPLIES CONNECTION SIZES	ELKAY KOHLER DEARBORN BRASS ZURN ZURN ZURN	ECTSRAD33226TBG K-R22141 816 Z8702-PC Z8751 Z8804-XL-LRLKQ-PC	ELKAY "CROSSTOWN" 20 GUAGE STAINLESS STEEL 33"X22"X6" DOUBLE BOWL SINK. CENTER DRAIN LOCATION KITCHEN SINK GOOSE NECK FAUCET WITH SIDESPRAY. 1.5GPM CERAMIC DISK CARTRIDGE, METAL SINGLE LEVER HANDLE AND MATCHING SIDE SPRAY BRASS DEEP LOCKING CUP SINK BASKET STRAINER. FITS 3-1/2" TO 4" OPENING 1-1/2" CAST BRASS 17 GAUGE P-TRAP WITH CLEANOUT 1-1/2" 20 GAUGE CONTINUOUS WASTE END OUTLET WITH CAST BRASS TEE 1/2" X 3/8" COMP X COMP LAVATORY SUPPLY KIT WITH ESCUTCHEONS, 1/4 TURN CHROME PLATED STOPS AND CHROME PLATED COPPER TUBE SUPPLY LINES CW 1/2",HW 1/2",WASTE 1-1/2",VENT 1-1/2"	
SH1	BATH TUB TRIM VALVE CONNECTION SIZES	KOHLER OLYMPIA OLYMPIA	K-R23217-RA T-2370 V-2304B	60" X 30" WHITE ACRYLIC TUB. MINCEY MARBLE (SP-3648) SHOWER AND TUB SURROUNDS SINGLE HANDE TUB/SHOWER TRIM SET. 1.75GPM. SINGLE HANDLE TUB/SHOWER PRESSURE BALANCING VALVE. TO LIMIT HANDLE TURN. DIVERTER TUB SPOUT, SUPER SHOWER HEAD WITH ARM AND FLANGE. WASTE 2", VENT 1-1/2", H & CW 1/2"	
SH2	SHOWER TRIM VALVE CONNECTION SIZES	MINCEY MARBLE OLYMPIA OLYMPIA	SP-3648 T-2372 V-2304B	ONE PIECE 36X48 CENTER DRAIN SHOWE ENCLOSURE. SINGLE HANDE SHOWER TRIM SET. 1.75GPM. SINGLE HANDLE SHOWER PRESSURE BALANCING VALVE. PROVIDE W/ FULL SIZE P-TRAP WASTE 2", VENT 1-1/2", H&CW 1/2"	
SH3 UFAS	SHOWER VALVE/TRIM CONNECTION SIZES	BEST BATH SYMMONS	LCS26337A75FTT.V2 9601-PLR-X	65"x36' WHITE ACRYLIC SHOWER ENCLOSURE W/ GRID DRAIN W/ INTEGRAL GRAB BARS "ORIGINS SHOWER SYSTEM WITH TEMPTROL PRESSURE BALANCING VALVE, METAL EVER HANDLE, ADJUSTABLE STOP SCREW LIMIT HANDLE TURN, EASY CLEAN SHOWER HEAD AND SUPPLY SCREWDRIVER STOPS CW 1/2",HW 1/2",WASTE 2",VENT 1-1/2" PROVIDE W/ FULL SIZE P-TRAP WASTE 2", VENT 1-1/2", H&CW 1/2"	
HB1	POST HYDRANT CONNECTION SIZES	ZURN	Z1395-XL	EXPOSED HEAD NON-FREEZE LEAD FREE YARD HYDRANT WITH DURA-COATED CAST IRON HEAD AND LIFT HANDLE WITH LOCK OPTION CW 3/4"	
HA1	HAMMER ARRESTOR	ZURN	Z-1700	STAINLESS STEEL BELLOW TYPE PLUMBING DRAINAGE INSTITUTE RATINGS: "100" (1-11 FU), "200" (12-32 FU), "300"(33-60 FU), "400"(61-113)	
WB1	WASHER BOX TRAP CONNECTION SIZES	OATEY	38202	OATEY 2x4 WMOB, SINGLE LEVER, COPPER SWEAT CONNECTION W/ HAMMER ARRESTOR 2" P-TRAP, PROVIDE VACUUM BREAKERS & HOSE CONNECTION WASTE 2", VENT 1-1/2", H & CW 1/2"	
WB2	WASHER BOX TRAP CONNECTION SIZES	OATEY	38470	1 HOUR RATED WASHER BOX SUPPLY & DRAIN 2" P-TRAP, PROVIDE VACUUM BREAKERS & HOSE CONNECTION WASTE 2", VENT 1-1/2", H & CW 1/2"	
IB1	ICE MAKER BOX CONNECTION SIZE	OATEY	38570	HIGH DENSITY POLYETHYLENE, 8"x10" ICE MAKER BOX WITH BRAIDED STAINLESS STEEL HOSE CW 1/2"	
IB2	ICE MAKER BOX CONNECTION SIZE	OATEY	38486	HIGH DENSITY POLYETHYLENE, 8"x10" ICE MAKER BOX WITH BRAIDED STAINLESS STEEL HOSE - FIRE RATED CW 1/2"	

ELECTRIC WATER HEATER SCHEDULE

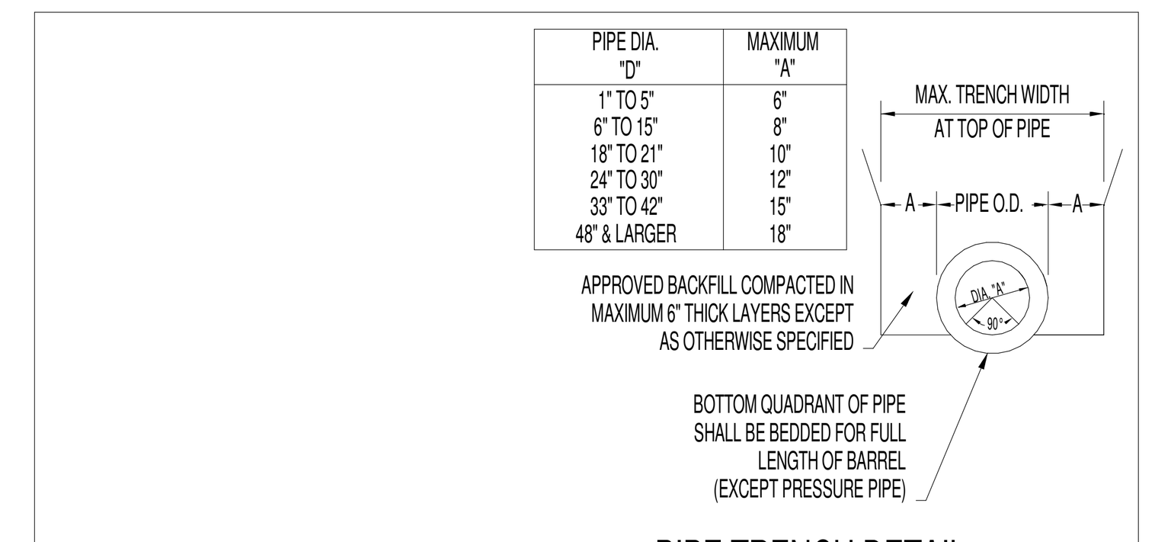
MARK	WH1
DESIGN MANUFACTURER	BRADFORD WHITE
MODEL NUMBER	LE140L3
GALLON CAPACITY	40
RECOVERY @ 100 DEG. F. RISE	18 GPH
HEATNG. CAP. (KW) - NON-SIMULTANEOUS	4.5 KW
ELECTRICAL (VOLTS/HZ/PH)	240/60/1

NOTES:
1. ALTERNATIVE MANUFACTURERS: LOCHINVAR, A.O. SMITH, STATE IND.

ELECTRIC WATER HEATER SCHEDULE

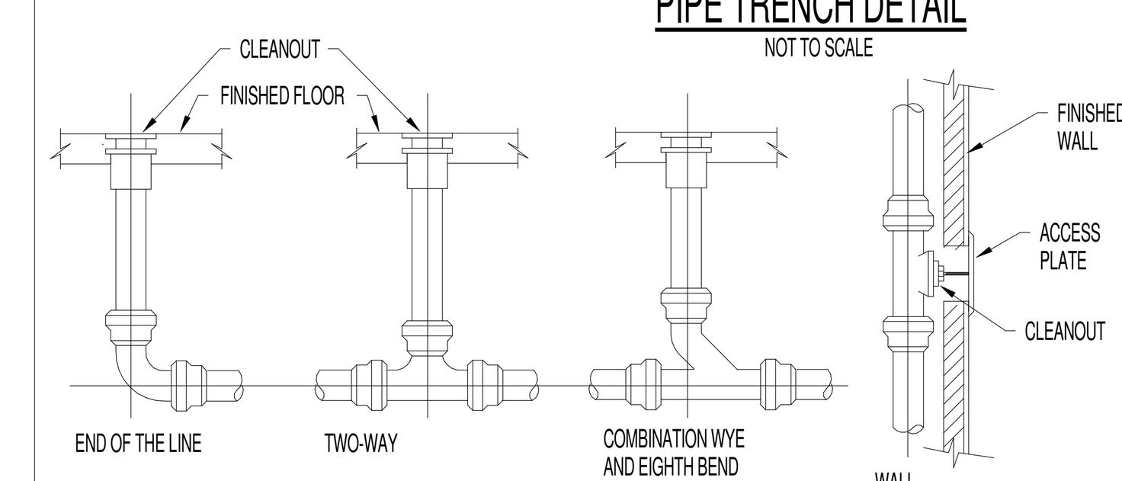
MARK	WH2
DESIGN MANUFACTURER	BRADFORD WHITE
MODEL NUMBER	LE255T3
GALLON CAPACITY	55
RECOVERY @ 100 DEG. F. RISE	18 GPH
HEATNG. CAP. (KW) - NON-SIMULTANEOUS	4.5 KW
ELECTRICAL (VOLTS/HZ/PH)	240/60/1

NOTES:
1. ALTERNATIVE MANUFACTURERS: LOCHINVAR, A.O. SMITH, STATE IND.



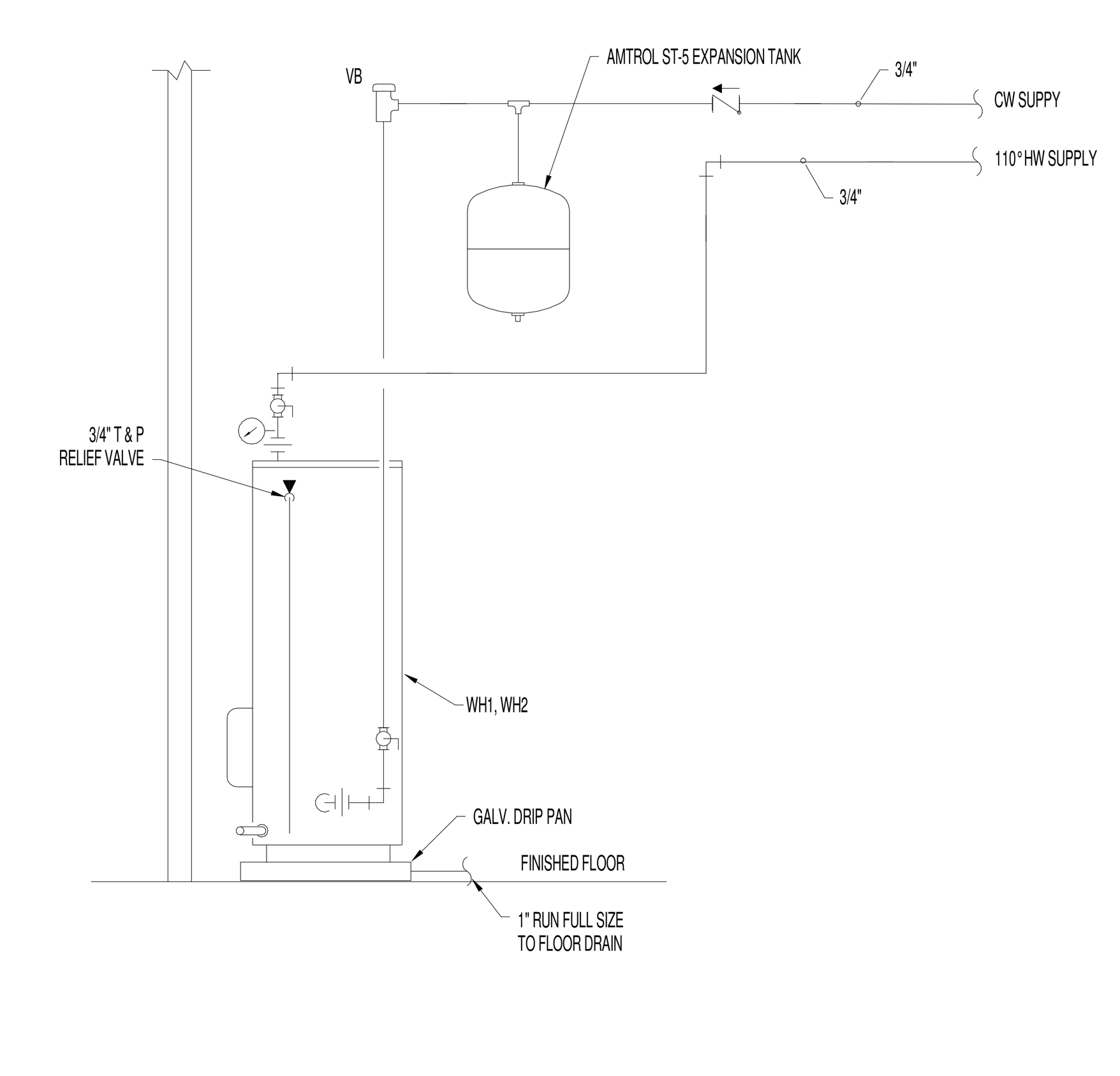
PIPE TRENCH DETAIL

NOT TO SCALE



FLOOR & WALL CLEANOUTS

NO TO SCALE



WH1, WH2 - WATER HEATER DETAIL

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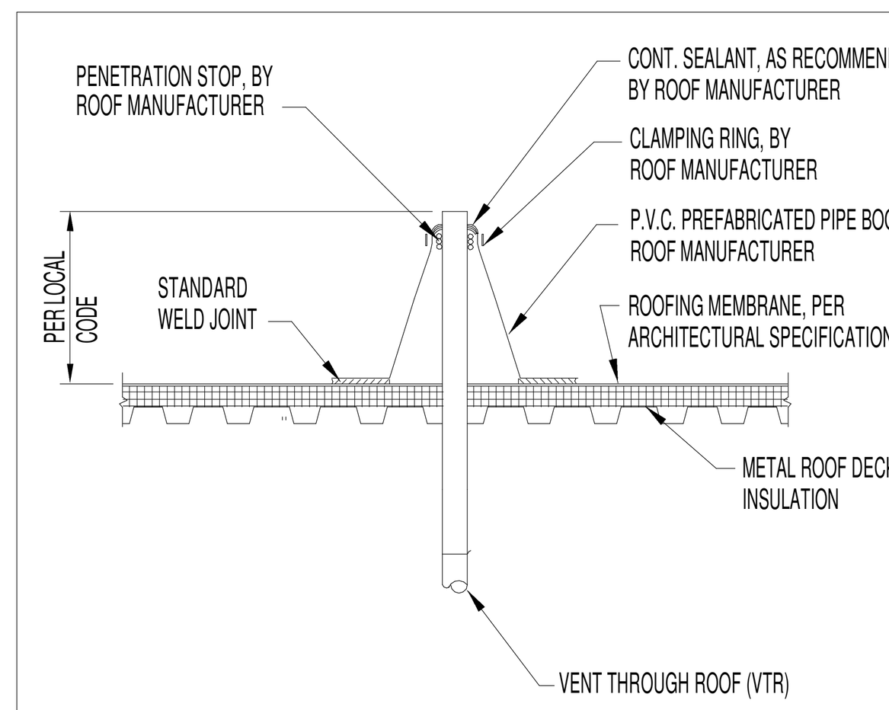

TYPICAL VENT THRU ROOF DETAIL

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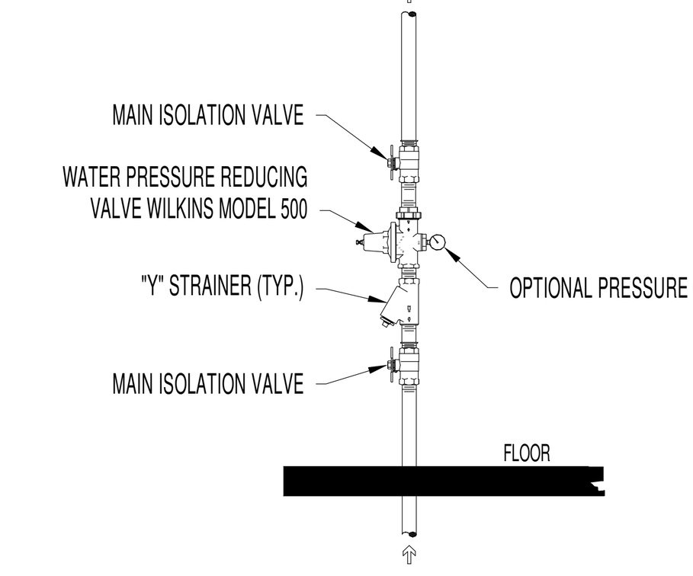
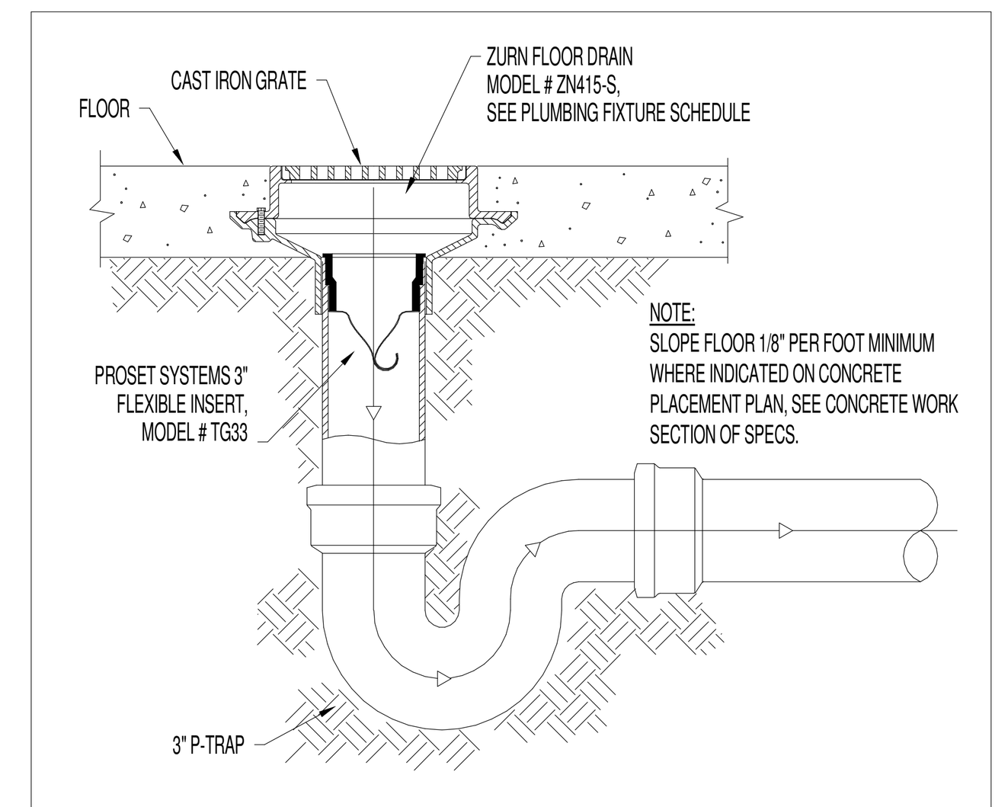


TYPICAL PRV DETAIL

NO SCALE



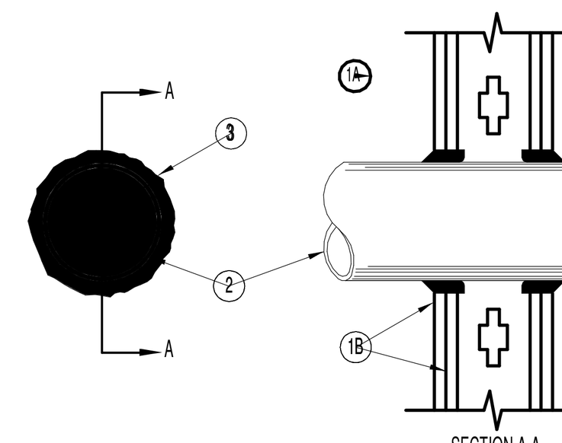
FLOOR DRAIN DETAIL

NOT TO SCALE

PLUMBING NOTES:

1. SANITARY WASTE AND VENT PIPING BOTH ABOVE AND BELOW GRADE SHALL BE SCHEDULE 40 PVC-DWV PLASTIC PIPE AND FITTINGS WITH SOLVENT WELD JOINTS. PLASTIC PIPING AND PIPING COMPONENTS SHALL BE LISTED AS CONFORMING WITH ANSI/NSF STD. 14 AND ASTM D-2665.
2. UNLESS INDICATED OTHERWISE ON DRAWINGS, INTERNAL WATER PIPING IS TO BE ROUTED IN CEILING SPACES, ATTICS, CRAWL SPACES AND IN AND BETWEEN WALL STUDS, ETC. (AS AND WHERE APPLICABLE) AND ON INSIDE OF INSULATED BUILDING ENVELOPE. TYPE "A" AND/OR "B" PEX IS PERMISSIBLE UPON OWNERS APPROVAL ONLY ON WATER LINES 2" AND SMALLER. WHERE PEX IS USED COLD AND HOT WATER MAINS SHALL BE TYPE L COPPER WITH BRANCH PIPING BEING PEX. WHERE PEX IS USED AS MAINS IN LIEU OF COPPER, PIPING SHALL BE A PIPE SIZE LARGER THAN WHAT IS SHOWN ON PLANS.
3. ALL VENT PIPING TO PENETRATE ROOF A MINIMUM OF 12" ABOVE ROOF. FLASH AND SEAL TO ROOF WEATHERTIGHT. PAINT VENT PIPING ABOVE ROOF AND WITH 2 COATS EPOXY BASED PAINT. COLOR TO BE BLACK.
4. CONTRACTOR SHALL INSPECT SITE AND BECOME FAMILIAR WITH EXISTING CONDITIONS WHICH MAY AFFECT WORK, INCLUDING VERIFICATION OF LOCATIONS AND RELATIONSHIP BETWEEN FIXTURES AND CONNECTIONS.
5. PIPING PLACED IN TRENCHES SHALL BE EMBEDDED IN 6" OF LOOSE AGGREGATE FILL, TAMP FILL MATERIAL ON EACH SIDE IN 6" LAYERS. ALL PIPING UNDER SLAB SHALL HAVE A MINIMUM 1" COVER FROM BOTTOM OF SLAB TO TOP OF PIPE AT HIGH POINT. PROTECT PIPING FROM BEING CRUSHED OR OTHERWISE CONSTRICTED.
6. EACH SINK, WATER CLOSET, ETC. SHALL HAVE SHUT-OFF VALVES LOCATED AT THE FIXTURE.
7. THE PLUMBING SYSTEM IN ITS ENTIRETY SHALL NOT BE COVERED UNTIL IT HAS BEEN INSPECTED, TESTED, AND APPROVED BY THE OWNER.
8. PRIOR TO COVERING THE WATER SUPPLY SYSTEM, IT SHALL BE PRESSURE TESTED AND PROVED TIGHT UNDER A WATER PRESSURE NOT LESS THAN 25 P.S.I. ABOVE THE WORKING PRESSURE UNDER WHICH IT IS TO BE OPERATED. THIS TEST SHALL BE COMPLETED AND APPROVED IN THE PRESENCE OF THE OWNER.
9. ALL SOLDERED JOINTS SHALL BE CLEANED BRIGHT AND ALL BURRS SHALL BE REMOVED AND THE SHALL BE RETURNED TO FULL BORE.
10. ALL SOLDER AND FLUX USED IN THE INSTALLATION OR REPAIR OF THE WATER SUPPLY OR DISTRIBUTION SYSTEM SHALL BE LEAD FREE.
11. ALL SOLDERED JOINT MATERIAL SUCH AS FITTINGS, SOLDER, TUBING SHALL BE APPROVED BY THE OWNER PRIOR TO INSTALLATION.
12. ALL MATERIALS, METHODS, AND PRACTICES SHALL BE IN ACCORDANCE WITH THE 2012 INTERNATIONAL PLUMBING CODE.
13. CONTRACTOR IS RESPONSIBLE FOR ALL REQUIRED FITTINGS TO CREATE A COMPLETE AND FUNCTIONAL PLUMBING SYSTEM. CONTRACTOR SHALL DETERMINE ANY FITTINGS REQUIRED FOR CONNECTION TO FIXTURES SPECIFIED.
14. PROVIDE REMOVABLE PVC COVERS ON ALL EXPOSED SUPPLY AND WASTE FITTINGS TO COMPLY WITH ANSI STD. A117.1 REQUIREMENTS.
15. CLEANOUTS:
   A. INTERIOR FINISHED FLOOR AREAS (FCO) - LACQUERED CAST IRON BODY WITH ANCHOR FLANGE, REVERSIBLE CLAMPING COLLAR, THREADED TOP ASSEMBLY AND ROUND GASKETED DEPRESSED COVER TO ACCEPT FLOOR FINISH.
   B. INTERIOR FINISHED WALL AREAS (WCO) - LINE TYPE WITH LACQUERED CAST IRON BODY AND ROUND EPOXY COATED GASKET COVER, AND ROUND STAINLESS STEEL ACCESS COVER SECURED WITH MACHINE SCREW.
   C. EXTERIOR SURFACED AREAS - ROUND CAST NICKEL BRONZE ACCESS FRAME AND NON-SKID COVER.
   D. EXTERIOR UN-SURFACED AREAS - LINE TYPE WITH LACQUERED CAST IRON BODY AND ROUND EPOXY COATED GASKET COVER.
16. ALL HOT WATER PIPE ABOVE GRADE SHALL BE INSULATED WITH 1 1/2" FIBERGLASS, LOW PRESSURE INSULATION WITH WHITE UNIVERSAL JACKET. ALL COLD WATER PIPE ABOVE GRADE SHALL BE INSULATED WITH 1/2" FIBERGLASS, LOW PRESSURE INSULATION WITH WHITE UNIVERSAL JACKET. ALL INSULATION SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.
17. ALL BALL/CONTROL/BALANCING VALVES WHICH ARE NOT READILY ACCESSIBLE VIA LAY-IN CEILING OR OPEN TO SPACE SHALL BE PROVIDED WITH AN ACCESSIBLE LOCKING PANEL EQUAL TO MIFAB TYPE CAD-FL - ACCESS PANEL SHALL BE PAINTED TO MATCH CEILING OR WALL FINISH.
18. ALL CONDENSATE PIPING SHALL BE INSULATED WITH 1" THICK ARMAFLEX INSULATION WITH GLUED JOINTS, OR 1 1/2" THICK FIBERGLASS INSULATION WITH VAPOR BARRIER MASTIC WRAP.
19. PROVIDE VACUUM BREAKERS WHERE ANY THREADED CONNECTIONS ARE PRESENT ON WATER SUPPLY LINE.
20. WATER HAMMER ARRESTORS TO BE INSTALLED ON EQUIPMENT PER MANUFACTURER RECOMMENDATIONS.

SYSTEM NO.W-L-1001
JUNE 15, 2005
F RATINGS - 1, 2, 3 AND 4 HR (SEE ITEMS 2 AND 3)
T RATINGS - 0, 1, 2, 3, AND 4 HR (SEE ITEM 3)
L RATING AT AMBIENT - LESS THAN 1 CFM/SQ FT
L RATING AT 400 F - LESS THAN 1 CFM/SQ FT



1. WALL ASSEMBLY - THE 1, 2, 3 OR 4 HR FIRE-RATED GYPSUM WALLBOARD/STUD WALL ASSEMBLY SHALL BE CONSTRUCTED OF THE MATERIALS AND IN THE MANNER DESCRIBED IN THE INDIVIDUAL U300 OR U400 SERIES WALL OR PARTITION DESIGNS IN THE UL FIRE RESISTANCE DIRECTORY AND SHALL INCLUDE THE FOLLOWING CONSTRUCTION FEATURES:

A. STUDS - WALL FRAMING MAY CONSIST OF EITHER WOOD STUDS (MAX 2 HR FIRE RATED ASSEMBLIES) OR STEEL CHANNEL STUDS. WOOD STUDS TO CONSIST OF NOM 2 BY 4 IN. (51 BY 102 MM) LUMBER SPACED 16 IN. (406 MM) OC WITH NOM 2 BY 4 IN. (51 BY 102 MM) LUMBER END PLATES AND CROSS BRACES. STEEL STUDS TO BE MIN 3-5/8 IN. (92 MM) WIDE BY 1-3/8 IN. (35 MM) DEEP CHANNELS SPACED MAX 24 IN. (610 MM) OC.
B. GYPSUM BOARD* - NOM 1/2 OR 5/8 IN. (13 OR 16 MM) THICK, 4 FT. (122 CM) WIDE WITH SQUARE OR TAPERED EDGES. THE GYPSUM WALLBOARD TYPE, THICKNESS, NUMBER OF LAYERS, FASTENER TYPE AND SHEET ORIENTATION SHALL BE AS SPECIFIED IN THE INDIVIDUAL U300 OR U400 SERIES DESIGN IN THE UL FIRE RESISTANCE DIRECTORY. MAX DIAM OF OPENING IS 26 IN. (660 MM).

2. THROUGH PENETRANT - ONE METALLIC PIPE, CONDUIT OR TUBING INSTALLED EITHER CONCENTRICALLY OR ECCENTRICALLY WITHIN THE FIRESTOP SYSTEM. THE ANNULAR SPACE BETWEEN PIPE, CONDUIT OR TUBING AND PERIPHERY OF OPENING SHALL BE MIN OF 0 IN. (0 MM) (POINT CONTACT) TO MAX 2 IN. (51 MM). PIPE, CONDUIT OR TUBING TO BE RIGIDLY SUPPORTED ON BOTH SIDES OF WALL ASSEMBLY. THE FOLLOWING TYPES AND SIZES OF METALLIC PIPES, CONDUITS OR TUBING MAY BE USED:
A. STEEL PIPE - NOM 24 IN. (610 MM) DIAM (OR SMALLER) SCHEDULE 10 (OR HEAVIER) STEEL PIPE.
B. IRON PIPE - NOM 24 IN. (610 MM) DIAM (OR SMALLER) SERVICE WEIGHT (OR HEAVIER) CAST IRON SOIL PIPE, NOM 12 IN. (305 MM) DIAM (OR SMALLER) OR CLASS 50 (OR HEAVIER) DUCTILE IRON PRESSURE PIPE.
C. CONDUIT - NOM 6 IN. (152 MM) DIAM (OR SMALLER) STEEL CONDUIT OR NOM 4 IN. (102 MM) DIAM (OR SMALLER) STEEL ELECTRICAL METALLIC TUBING
D. COPPER TUBING - NOM 6 IN. (152 MM) DIAM (OR SMALLER) TYPE L (OR HEAVIER) COPPER TUBING
E. COPPER PIPE - NOM 6 IN. (152 MM) DIAM (OR SMALLER) REGULAR (OR HEAVIER) COPPER PIPE.
F. THROUGH PENETRATING PRODUCT* - FLEXIBLE METAL PIPING - THE FOLLOWING TYPES OF STEEL FLEXIBLE METAL GAS PIPING MAY BE USED:

1. NOM 2 IN. (51 MM) DIAM (OR SMALLER) STEEL FLEXIBLE METAL GAS PIPING. PLASTIC COVERING ON PIPING MAY OR MAY NOT BE REMOVED ON BOTH SIDES OF FLOOR OR WALL ASSEMBLY.

OMEGA FLEX INC

2. NOM 1 IN. (25 MM) DIAM (OR SMALLER) STEEL FLEXIBLE METAL GAS PIPING. PLASTIC COVERING ON PIPING MAY OR MAY NOT BE REMOVED ON BOTH SIDES OF FLOOR OR WALL ASSEMBLY.

TITEFLEX CORP
A BUNDY CO

3. NOM 1 IN. (25 MM) DIAM (OR SMALLER) STEEL FLEXIBLE METAL GAS PIPING. PLASTIC COVERING ON PIPING MAY OR MAY NOT BE REMOVED ON BOTH SIDES OF FLOOR OR WALL ASSEMBLY.

WARD MFG INC
3. FILL,VOID OR CAVITY MATERIAL* - CAULK OR SEALANT - MIN 5/8, 1-1/4,1-7/8 AND 2-1/2 IN. (16, 32, 48 AND 64 MM) THICKNESS OF CAULK FOR 1, 2, 3 AND 4 HR RATED ASSEMBLIES, RESPECTIVELY, APPLIED WITHIN ANNULUS, FLUSH WITH BOTH SURFACES OF WALL. MIN 1/4 IN. (6 MM) DIAM BEAD OF CAULK APPLIED TO GYPSUM BOARD/PENETRANT INTERFACE AT POINT CONTACT LOCATION ON BOTH SIDES OF WALL.
THE HOURLY F RATING OF THE FIRESTOP SYSTEM IS DEPENDENT UPON THE HOURLY FIRE RATING OF THE WALL ASSEMBLY IN WHICH IT IS INSTALLED, AS SHOWN IN THE FOLLOWING TABLE.
THE HOURLY T RATING OF THE FIRESTOP SYSTEM IS DEPENDENT UPON THE TYPE OR SIZE OF THE PIPE OR CONDUIT AND THE HOURLY FIRE RATING OF THE WALL ASSEMBLY IN WHICH IT IS INSTALLED, AS TABULATED BELOW:

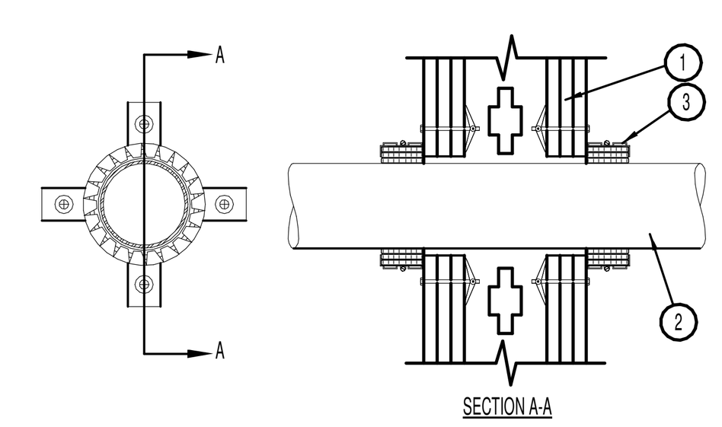
MAX PIPE OR CONDUIT DIAM IN. (MM)	F RATING HR	T RATING HR
1 (25)	1 OR 2	0+, 1 OR 2
1 (25)	3 OR 4	3 OR 4
4 (102)	1 OR 2	0
6 (152)	3 OR 4	0
12 (305)	1 OR 2	0

+WHEN COPPER PIPE IS USED, T RATING IS 0 HR.

3M COMPANY - CP 25WB+ CAULK OR FB-3000 WT SEALANT,

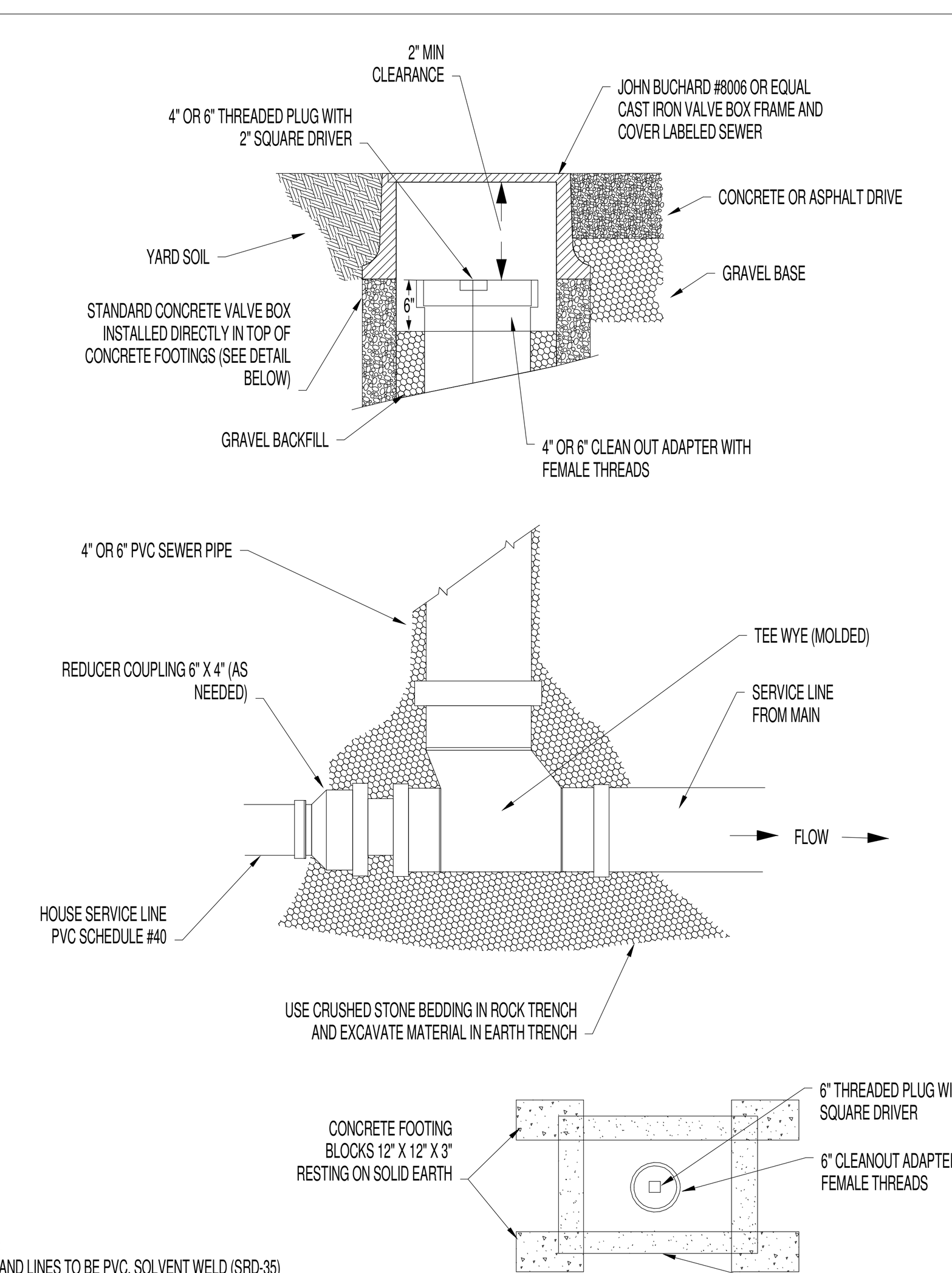
*BEARING THE UL CLASSIFICATION MARKING

SYSTEM NO.W-L-2162
NOVEMBER 20, 2009
F RATINGS - 1, 2 AND 3 HR (SEE ITEM 1)
T RATINGS - 1, 2 AND 3 HR (SEE ITEM 1)



1. WALL ASSEMBLY - THE 1, 2 OR 3 HR FIRE RATED GYPSUM BOARD/STUD WALL ASSEMBLY SHALL BE CONSTRUCTED OF THE MATERIALS AND IN THE MANNER SPECIFIED IN THE INDIVIDUAL U300, U400 OR V400 SERIES WALL AND PARTITION DESIGNS IN THE UL FIRE RESISTANCE DIRECTORY AND SHALL INCLUDE THE FOLLOWING CONSTRUCTION FEATURES:
A. STUDS - WALL FRAMING MAY CONSIST OF EITHER WOOD STUDS OR STEEL CHANNEL STUDS. WOOD STUDS TO CONSIST OF NOM 2 BY 4 IN. (51 BY 102 MM) LUMBER SPACED 16 IN. (406 MM) OC. STEEL STUDS TO BE MIN 3-1/2 IN. (89 MM) WIDE SPACED MAX 24 IN. (610 MM) OC. WHEN WOOD STUDS ARE USED, THE ASSEMBLY IS LIMITED TO 1 AND 2 HR. RATINGS.
B. GYPSUM BOARD* - THICKNESS, TYPE, NUMBER OF LAYERS AND FASTENERS AS REQUIRED IN THE INDIVIDUAL WALL AND PARTITION DESIGN. MAX DIAM OF OPENING IS 5 IN. (127 MM).
THE HOURLY F RATING OF THE FIRESTOP SYSTEM IS EQUAL TO THE HOURLY FIRE RATING OF THE WALL ASSEMBLY IN WHICH IT IS INSTALLED.
2. THROUGH PENETRANTS - ONE NONMETALLIC PIPE OR CONDUIT TO BE CENTERED WITHIN OPENING WITH A NOM 1/4 IN. (6 MM) ANNULAR SPACE BETWEEN PIPE OR CONDUIT AND PERIPHERY OF OPENING. PIPE OR CONDUIT TO BE RIGIDLY SUPPORTED ON BOTH SIDES OF THE WALL ASSEMBLY. THE FOLLOWING TYPES AND SIZES OF NONMETALLIC PIPES OR CONDUITS MAY BE USED:
A. POLYVINYL CHLORIDE (PVC) PIPE - NOM 4 IN. (102 MM) DIAM (OR SMALLER) SCHEDULE 40 SOLID CORE OR CELLULAR CORE PVC PIPE FOR USE IN CLOSED (PROCESS OR SUPPLY) OR VENTED (DRAIN, WASTE OR VENT) PIPING SYSTEM.
B. RIGID NONMETALLIC CONDUIT++ - NOM 4 IN. (102 MM) DIAM (OR SMALLER) SCHEDULE 40 PVC CONDUIT INSTALLED IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE (NFPA NO. 70).
C. CHLORINATED POLYVINYL CHLORIDE (CPVC) PIPE - NOM 4 IN. (102 MM) DIAM (OR SMALLER) SDR13.5 CPVC PIPE FOR USE IN CLOSED (PROCESS OR SUPPLY) PIPING SYSTEMS.
D. ACRYLONITRILE BUTADIENE STYRENE (ABS) PIPE - NOM 4 IN. (102 MM) DIAM (OR SMALLER) SCHEDULE 40 SOLID CORE OR CELLULAR CORE ABS PIPE FOR USE IN CLOSED (PROCESS OR SUPPLY) OR VENTED (DRAIN, WASTE OR VENT) PIPING SYSTEMS.
E. FIRE RETARDANT POLYPROPYLENE (FRPP) PIPE - NOM 4 IN. (102 MM) DIAM (OR SMALLER) SCHEDULE 40 FRPP PIPE FOR USE IN CLOSED (PROCESS OR SUPPLY) OR VENTED (DRAIN, WASTE OR VENT) PIPING SYSTEM.
F. POLYVINYLIDENE FLUORIDE (PVDF) PIPE - NOM. 4 IN. (102 MM) DIAM (OR SMALLER) SCHEDULE 40 PVDF PIPE FOR USE IN CLOSED (PROCESS OR SUPPLY) OR VENTED (DRAIN, WASTE OR VENT) PIPING SYSTEMS.
THE T RATINGS ARE 1, 2 AND 3 HR FOR PIPES A, B AND C IN 1, 2 AND 3 HR RATED WALL ASSEMBLIES, RESPECTIVELY. THE T RATINGS FOR PIPE D, E AND F ARE 1 HR IN 1 AND 2 HR RATED WALL ASSEMBLIES AND 2 HR IN 3 HR RATED WALL ASSEMBLIES.
3. FIRESTOP DEVICE - COLLAR - COLLAR TO BE INSTALLED IN ACCORDANCE WITH THE ACCOMPANYING INSTALLATION INSTRUCTIONS. COLLAR TO BE INSTALLED AND LATCHED AROUND PIPE AND SECURED TO BOTH SIDES OF WALL WITH 3M ULTRA FAST ANCHOR STRAPS OR WITH 1/4 IN. (6 MM) DIAM BY MIN 1-1/2 IN. (38 MM) LONG STEEL TOGGLE BOLTS IN CONJUNCTION WITH MIN 1-1/4 IN. (32 MM) DIAM STEEL FENDER WASHERS. MIN OF TWO, THREE OR FOUR ANCHOR STRAPS OR ANCHOR BOLTS, SYMMETRICALLY LOCATED, FOR NOM 2 IN. (51 MM) DIAM (AND SMALLER), NOM 3 IN. (76 MM) DIAM AND NOM 4 IN. (102 MM) DIAM PIPES, RESPECTIVELY.
3M COMPANY - ULTRA PPD 1.5, 2.0, 3.0 AND 4.0
4. FILL, VOID OR CAVITY MATERIALS* - CAULK, SEALANT OR PUTTY - (OPTIONAL, NOT SHOWN) - GENEROUS BEAD OF CAULK OR PUTTY MAY BE APPLIED TO OUTER PERIMETER OF COLLAR AT ITS INTERFACE WITH WALL SURFACES.
3M COMPANY - CP 25WB+ CAULK, MP+ STIX PUTTY, IC 15WB+ CAULK, FIREDAM 150+ CAULK OR FB-3000 WT SEALANT. (NOTE: CP 25WB+ AND FIREDAM 150+ NOT SUITABLE FOR USE WITH CPVC PIPES.)
*BEARING THE UL CLASSIFICATION MARKING
++BEARING THE UL LISTING MARK

1



GENERAL NOTE
· ALL FITTINGS AND LINES TO BE PVC, SOLVENT WELD (SRD-35)
· INSPECTION ASSEMBLY TO BE INSTALLED AS REQUIRED BY CODE

PLUMBING LEGEND

- COLD WATER LINE
- HOT WATER SUPPLY
- HOT WATER RETURN
- 140° — HOT WATER - 140°F
- 140°R — HOT WATER RETURN - 140°F
- SANITARY SEWER LINE
- GW — GREASE WASTE
- G — NATURAL GAS
- LP — LIQUID PROPANE
- VENT LINE
- C — CONDENSATE
- RW — RAINWATER PIPING
- N — NITROGEN
- NO — NITROUS OXIDE
- O — OXYGEN
- V — VACUUM
- A — AIR
- FW — FILTERED WATER
- POINT OF CONNECTION TO EXISTING PLUMBING
- FLOOR DRAIN
- FLOOR SINK
- ROOF DRAIN
- WATER CLOSET CONNECTION
- FLOOR/GRADE CLEAN-OUT
- WALL CLEAN-OUT
- FIXTURE CONNECTION
- HOSE BIBB
- A — WATER HAMMER ARRESTOR

NOTE:
1. FOR CONNECTION SIZES AT FIXTURES, SEE PLUMBING FIXTURE SCHEDULE.

PIPING SYMBOLS

- THREE WAY VALVE
- BALL VALVE
- BUTTERFLY VALVE
- GATE VALVE
- CHECK VALVE
- GAS COCK / PLUG VALVE
- GLOBE VALVE
- UNION
- CIRCUIT SETTER
- PRESSURE REGULATING VALVE
- PRESSURE RELIEF VALVE
- PIPE TURN DOWN
- PIPE TURN UP
- PIPE TEE DOWN
- PIPE TEE UP
- PIPE TRANSITION
- STRAINER
- CLEAN OUT

ABBREVIATIONS

BV BALL VALVE
CI CAST IRON
CO CLEAN OUT
CON CONDENSATE
CW COLD WATER
CHK. V CHECK VALVE
EX EXISTING
FD FLOOR DRAIN
FS FLOOR SINK
GW GREASY WASTE
HB HOSE BIB/WALL HYDRANT
HW HOT WATER
HWS HOT WATER SUPPLY
HWR HOT WATER RETURN
P1 FIXTURE NUMBER (SEE SCHEDULE)
SS SANITARY SEWER
VS VENT STACK
VT VENT LINE
VTR VENT THRU ROOF
VB VACUUM BREAKER
WH WATER HEATER
WS WASTE STACK

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McCarty Holsaple McCarty, Inc.
550 W. Main St., Suite 300
Knoxville, TN 37902
t 865.544.2000
www.mhminc.com

Consultants:

CIVIL ENGINEER:
HUDDLESTON-STEELE ENGINEERING INC.
2112 N.W. BROAD ST.
MURFREESBORO, TN 37129
615.893.4084

LANDSCAPE ARCHITECT:
RAGAN SMITH
100 E. VINE ST., STE 200
MURFREESBORO, TN 37130
615.546.6050

STRUCTURAL ENGINEER:
HAINES STRUCTURAL GROUP
800 S. GAY ST., STE 1750
KNOXVILLE TN, 37929
865.329.9920

MECHANICAL & PLUMBING ENGINEER:
FACILITY SYSTEMS CONSULTANTS
713 S. CENTRAL ST., STE 101
KNOXVILLE TN, 37902
865.246.0164

ELECTRICAL ENGINEER:
FACILITY SYSTEMS CONSULTANTS
713 S. CENTRAL ST., STE 101
KNOXVILLE TN, 37902
865.246.0164

Project Information:

21026

MHA Parkside Housing

550 W. MAIN ST. KNOXVILLE, TN 37919

JASON W. HOLIWAY · REGISTERED ENGINEER · AGRICULTURE · COMMERCE · No. 109448 · STATE OF TENNESSEE
8-23-2022

Consultant:
FACILITY SYSTEMS CONSULTANTS, LLC
713 South Central Street, Suite 101
Knoxville, Tennessee 37902
Phone: (865) 246-0164
Fax: (865) 246-1084

#	ISSUE	DATE
1	REVISION 01 - CITY COMMENTS RESPONSE	8/23/2022

Issue Date:	04.07.2022
PIC	M. BUTLER
PM	M. BUTLER
PA	G. TAYLOR
Drawn By:	DJN
Checked By:	L.T.HEADLA/J.W.HOLIWAY

Sheet Description:

P-001

PLUMBING SCHEDULES AND DETAILS

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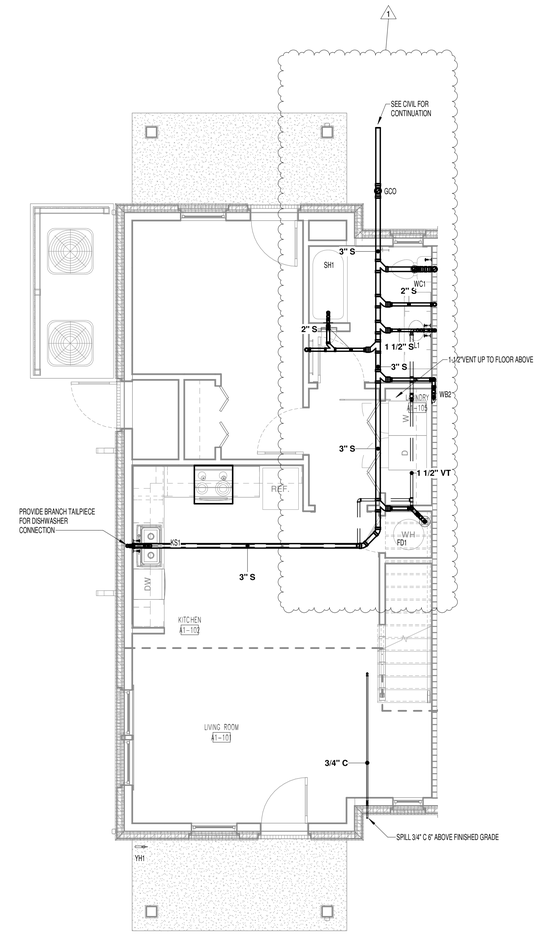
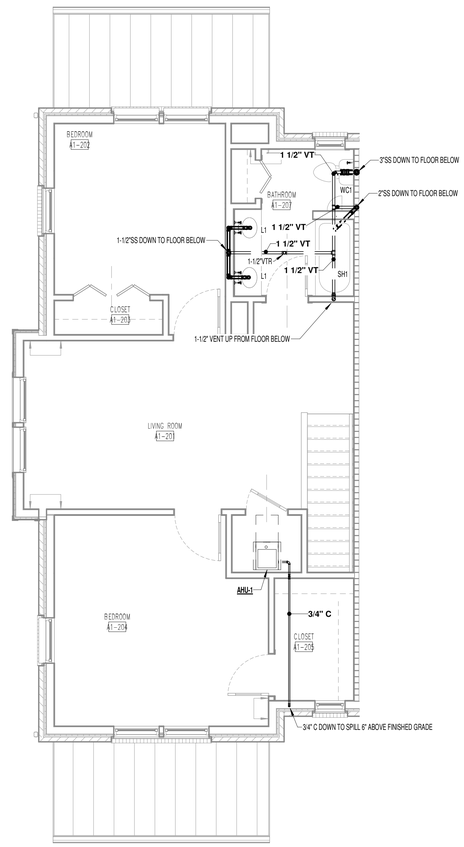
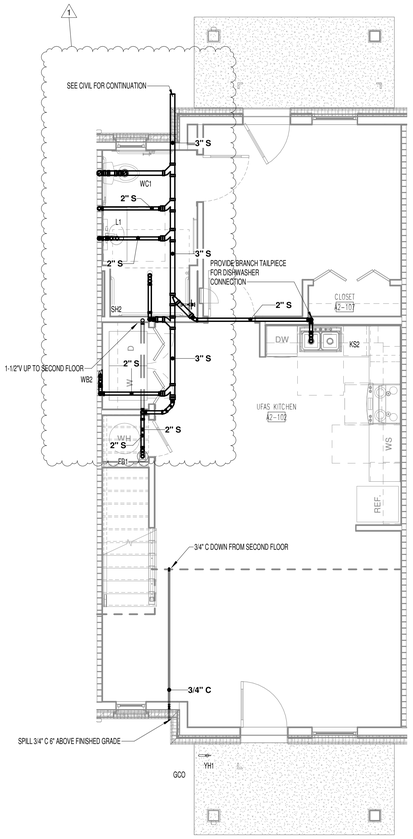


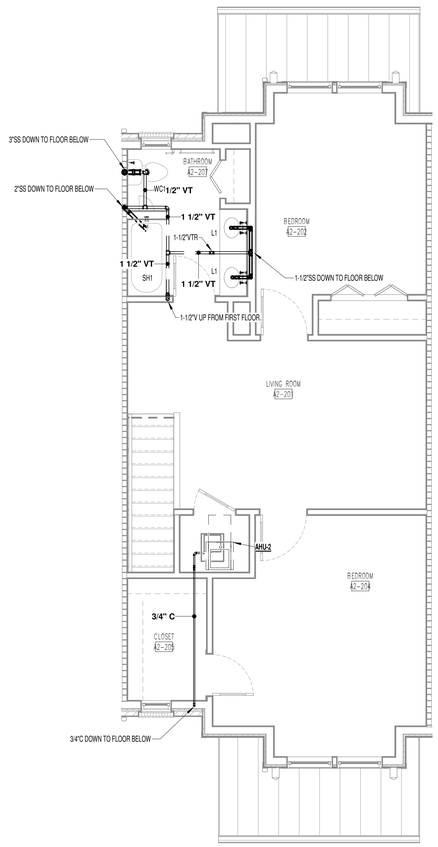
1 BUILDING A UNIT 1 - GROUND FLOOR SANITARY PLAN
1/4" = 1'-0"



2 BUILDING A UNIT 1 - SECOND FLOOR SANITARY PLAN
1/4" = 1'-0"



3 BUILDING A UNIT 2 - GROUND FLOOR SANITARY PLAN
1/4" = 1'-0"



4 BUILDING A UNIT 2 - SECOND FLOOR SANITARY PLAN
1/4" = 1'-0"

8/18/2022 1:49:44 PM

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550 W. Main St., Suite 300
Knoxville, TN 37902
t 865.544.2000
www.mhminc.com

Consultants:

CIVIL ENGINEER:

HUDDLESTON-STEELE ENGINEERING INC.
2112 N.W. BROAD ST.
MURFREESBORO, TN 37129
615.893.4084

LANDSCAPE ARCHITECT:

RAGAN SMITH
100 E. VINE ST., STE 200
MURFREESBORO, TN 37130
615.546.6050

STRUCTURAL ENGINEER:

HAINES STRUCTURAL GROUP
800 S. GAY ST., STE 1750
KNOXVILLE TN, 37929
865.329.9920

MECHANICAL & PLUMBING ENGINEER:

FACILITY SYSTEMS CONSULTANTS
713 S. CENTRAL ST., STE 101
KNOXVILLE TN, 37902
865.246.0164

ELECTRICAL ENGINEER:

FACILITY SYSTEMS CONSULTANTS
713 S. CENTRAL ST., STE 101
KNOXVILLE TN, 37902
865.246.0164

Project Information:

21026

MHA Parkside Housing

550 W. MAIN ST. KNOXVILLE, TN 37919

JASON W. HOLIWAY — REGISTERED ENGINEER — AGRICULTURE — NO. 109446 — STATE OF TENNESSEE — 8/23/2022

Consultant:

FACILITY SYSTEMS CONSULTANTS, LLC
713 South Central Street, Suite 101
Knoxville, Tennessee 37902
Phone: (865) 246-0164
Fax: (865) 246-1084

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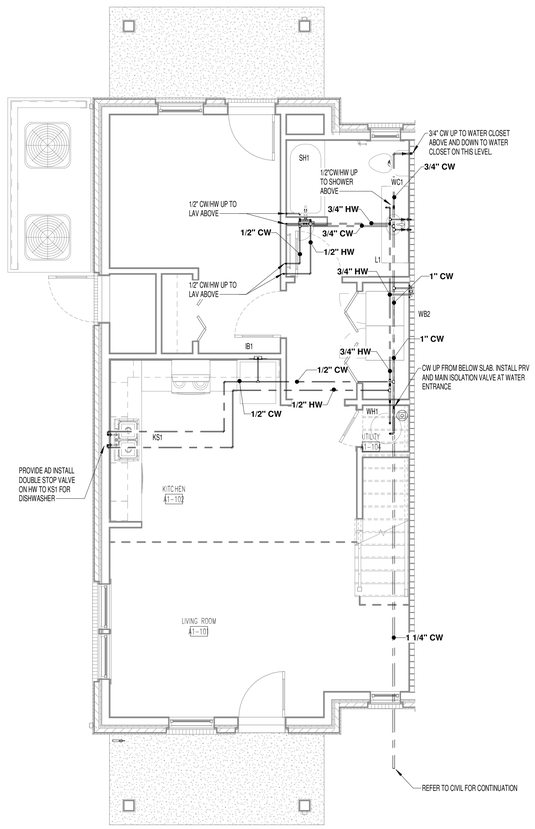
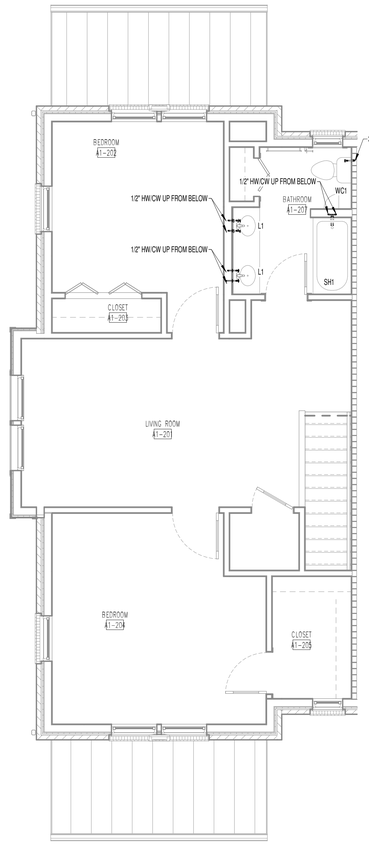
Sheet Description:

P-110

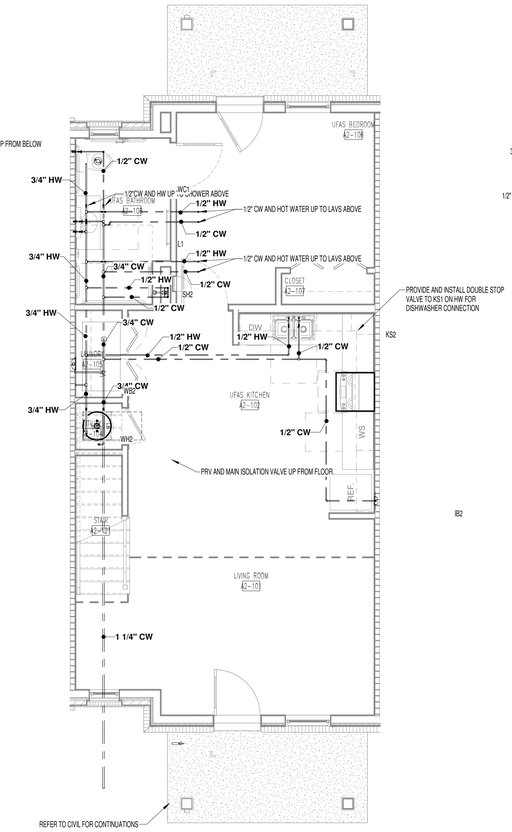
BUILDING A - SANITARY PLANS



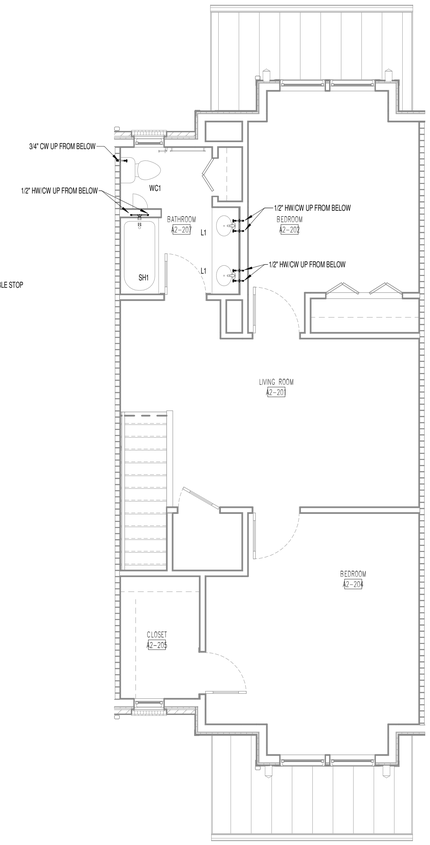
1 BUILDING A UNIT 1 - GROUND FLOOR DOMESTIC WATER PLAN
1/4" = 1'-0"



2 BUILDING A UNIT 1 - SECOND FLOOR DOMESTIC WATER PLAN
1/4" = 1'-0"



3 BUILDING A UNIT 2 - GROUND FLOOR DOMESTIC WATER PLAN
1/4" = 1'-0"



4 BUILDING A UNIT 2 - SECOND FLOOR DOMESTIC WATER PLAN
1/4" = 1'-0"

NOTE: WATER PIPING FOR SECOND FLOOR TO BE ROUTED IN CEILING OF FIRST FLOOR

4/4/2022 3:31:41 PM

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550 W. Main St., Suite 300
Knoxville, TN 37902
t 865.544.2000
www.mhminc.com

Consultants:

CIVIL ENGINEER:

HUDDLESTON-STEELE ENGINEERING INC.
2112 N.W. BROAD ST.
MURFREESBORO, TN 37129
615.893.4084

LANDSCAPE ARCHITECT:

RAGAN SMITH
100 E. VINE ST., STE 200
MURFREESBORO, TN 37130
615.546.6050

STRUCTURAL ENGINEER:

HAINES STRUCTURAL GROUP
800 S. GAY ST., STE 1750
KNOXVILLE TN, 37929
865.329.9920

MECHANICAL & PLUMBING ENGINEER:

FACILITY SYSTEMS CONSULTANTS
713 S. CENTRAL ST., STE 101
KNOXVILLE TN, 37902
865.246.0164

ELECTRICAL ENGINEER:

FACILITY SYSTEMS CONSULTANTS
713 S. CENTRAL ST., STE 101
KNOXVILLE TN, 37902
865.246.0164

Project Information:

21026

MHA Parkside Housing

550 W. MAIN ST. KNOXVILLE, TN 37919

JASON W. HOLIWAY — REGISTERED PROFESSIONAL ENGINEER — AGRICULTURE — 04/04/2022 — LICENSED No. 119548 — STATE OF TENNESSEE

Consultant:

FACILITY SYSTEMS CONSULTANTS, LLC
713 South Central Street, Suite 101
Knoxville, Tennessee 37902
Phone: (865) 246-0164
Fax: (865) 246-1584

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PM	M. BUTLER
PA	G. TAYLOR
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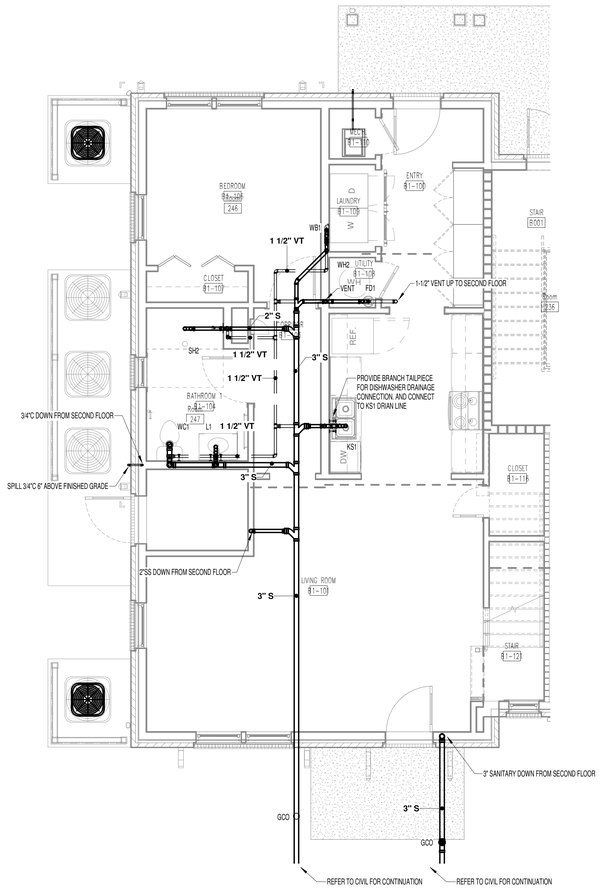
Checked By:	L.T.HEADLA/J.W.HOLIWAY

Sheet Description:

P-115

BUILDING A - DOMESTIC WATER PLANS



1 BUILDING B1 - GROUND FLOOR SANITARY PLAN
1/4" = 1'-0"

2 BUILDING B1 - SECOND FLOOR SANITARY PLAN
1/4" = 1'-0"

3 BUILDING B8 -THIRD LEVEL SANITARY PLAN
1/4" = 1'-0"

4/4/2022 3:31:51 PM

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Knoxville, TN 37902
t 865.544.2000
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CIVIL ENGINEER:

HUDDLESTON-STEELE ENGINEERING INC.
2112 N.W. BROAD ST.
MURFREESBORO, TN 37129
615.893.4084

LANDSCAPE ARCHITECT:

RAGAN SMITH
100 E. VINE ST., STE 200
MURFREESBORO, TN 37130
615.546.6050

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HAINES STRUCTURAL GROUP
800 S. GAY ST., STE 1750
KNOXVILLE TN, 37929
865.329.9920

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FACILITY SYSTEMS CONSULTANTS
713 S. CENTRAL ST., STE 101
KNOXVILLE TN, 37902
865.246.0164

ELECTRICAL ENGINEER:

FACILITY SYSTEMS CONSULTANTS
713 S. CENTRAL ST., STE 101
KNOXVILLE TN, 37902
865.246.0164

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21026

MHA Parkside Housing

550 W. MAIN ST. KNOXVILLE, TN 37919

JON W. HOLIWAY
REGISTERED ENGINEER
AGRICULTURE
04/04/2022
No. 109446
STATE OF TENNESSEE

Consultant:

FACILITY SYSTEMS CONSULTANTS, LLC
713 South Central Street, Suite 101
Knoxville, Tennessee 37902
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Fax: (865) 246-0164

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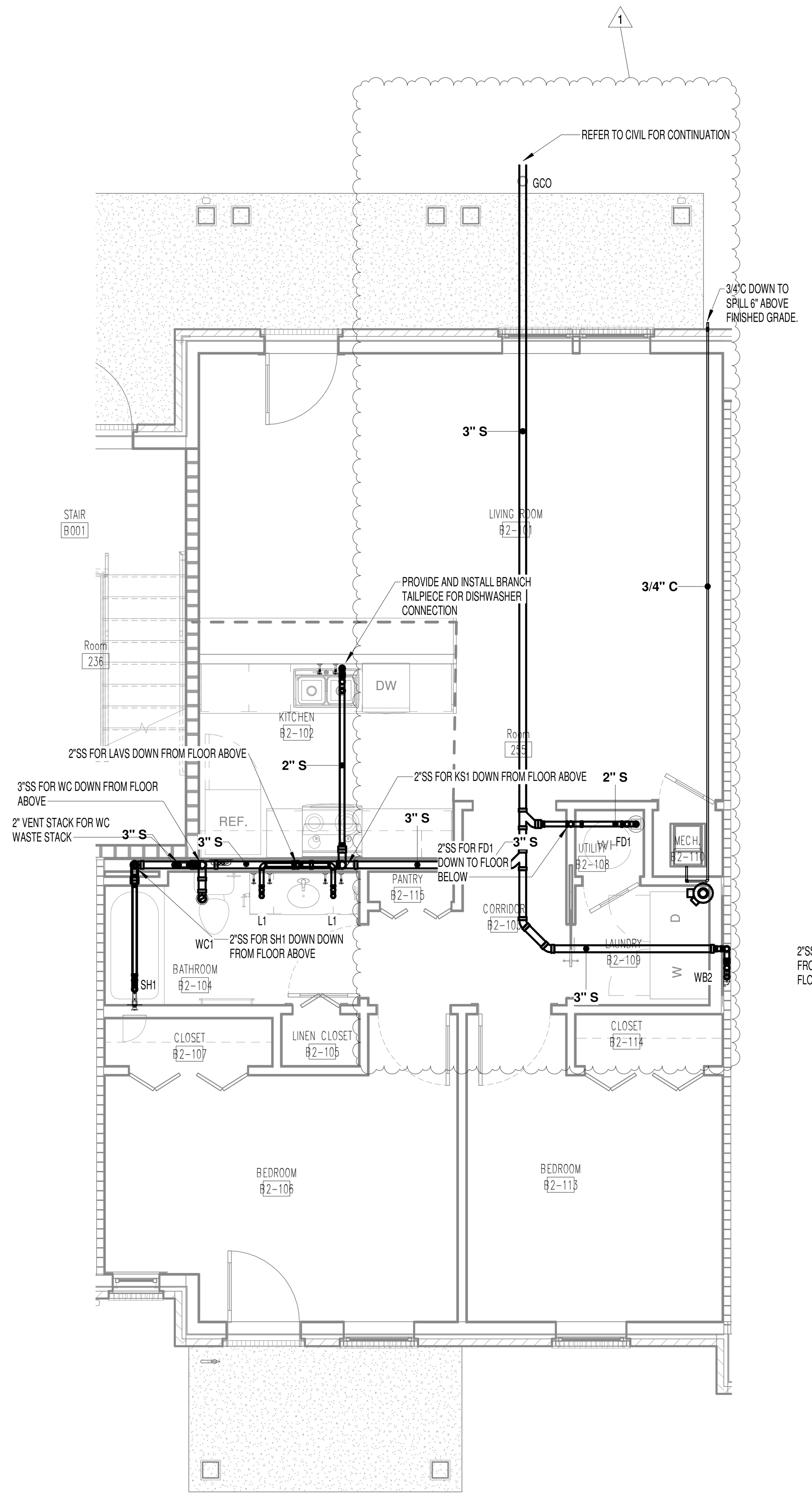
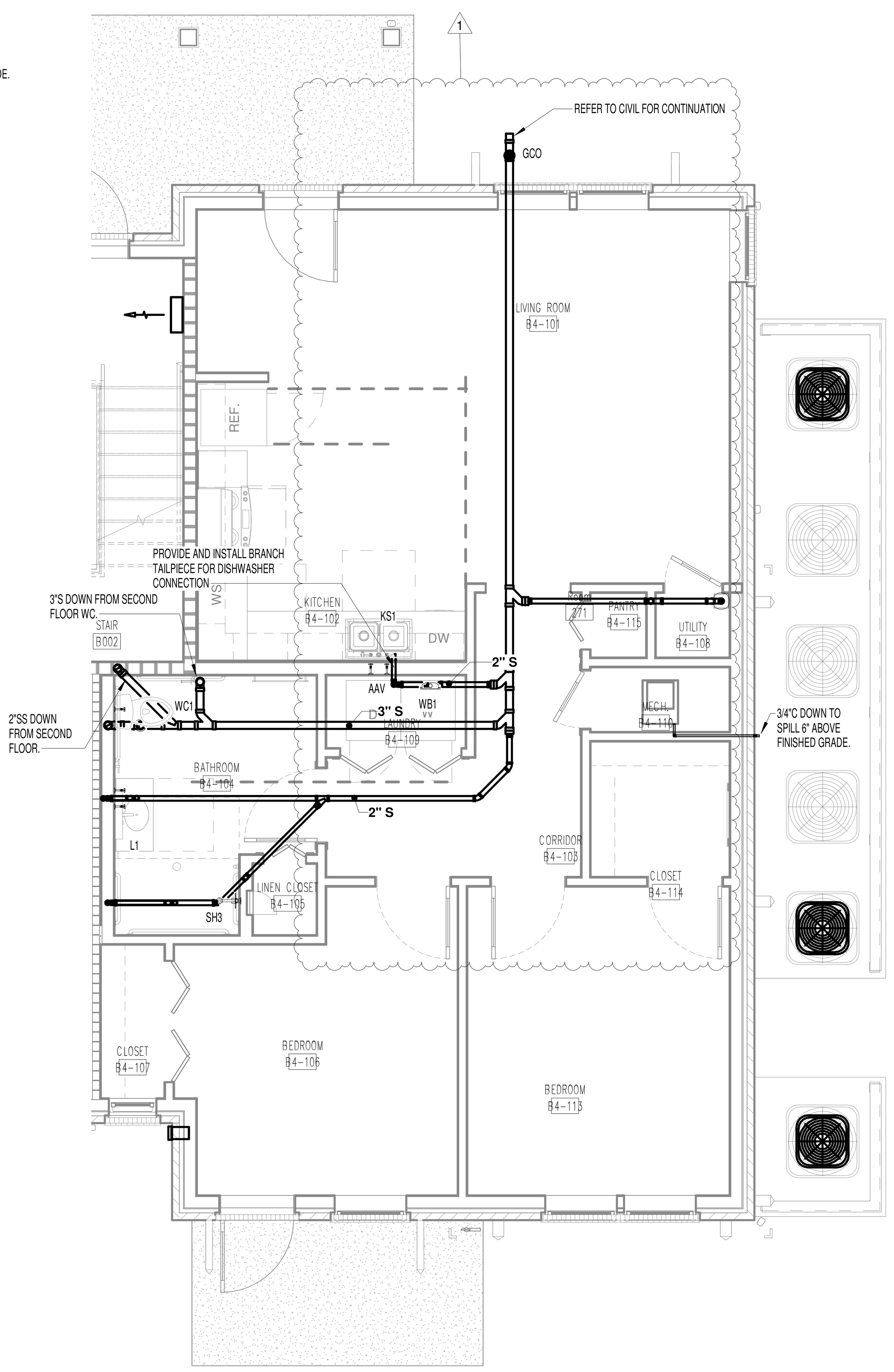
Sheet Description:

P-120

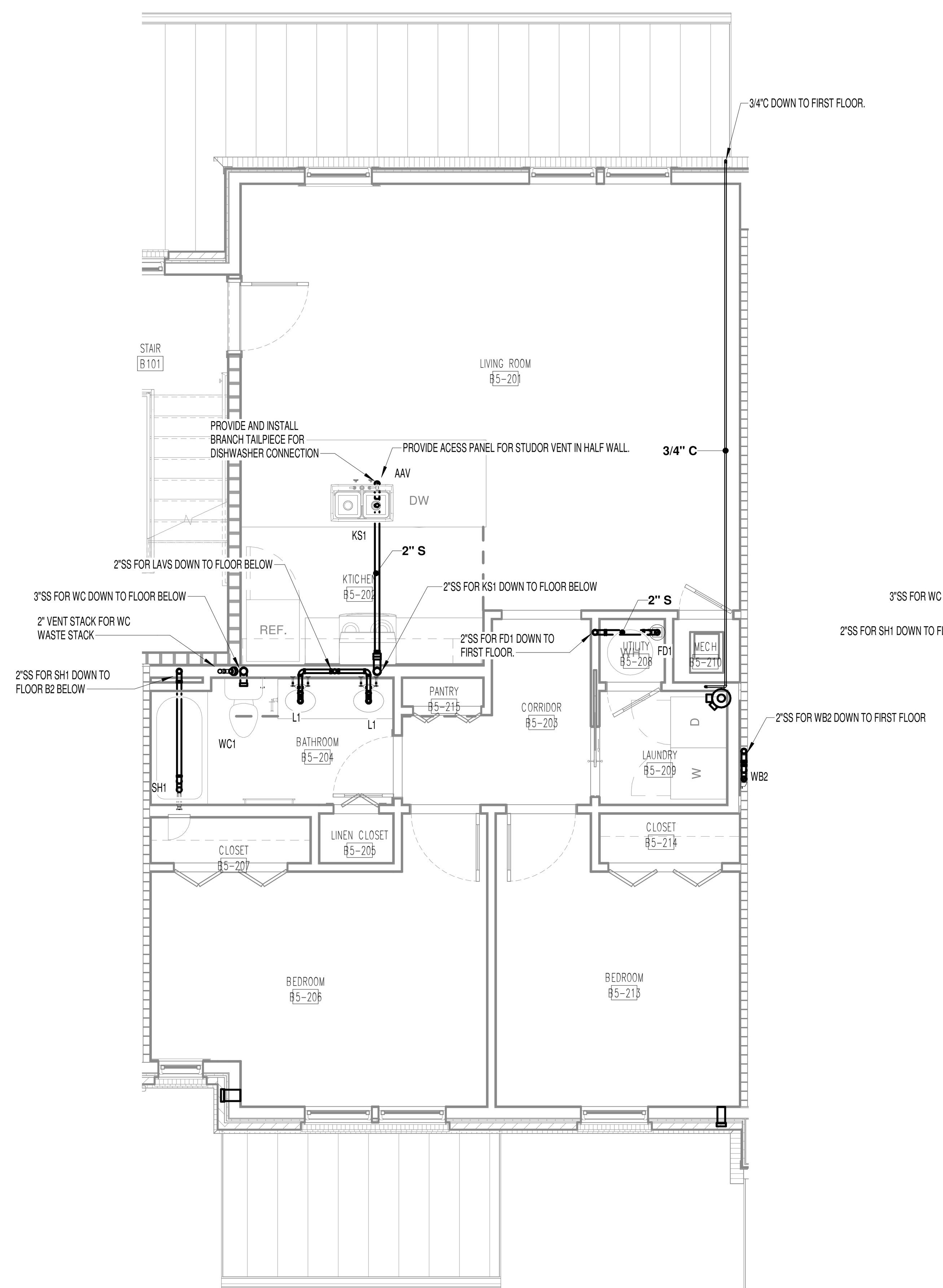
BUILDING B - SANITARY PLANS



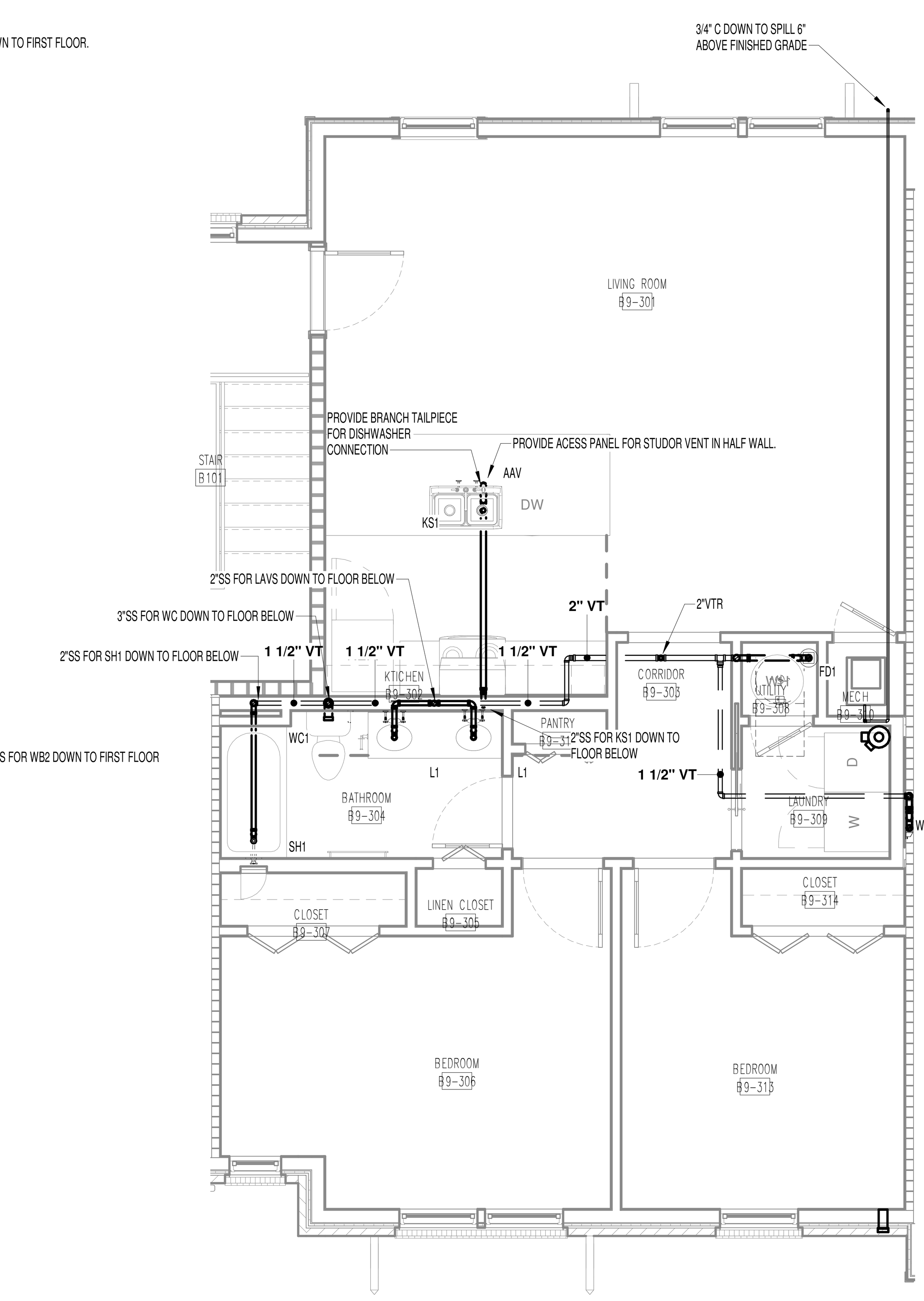
3 BUILDING B2 - SECOND FLOOR SANITARY PLAN
1/4" = 1'-0"



1 BUILDING B4 - GROUND FLOOR SANITARY PLAN
1/4" = 1'-0"



2 BUILDING B5 - SECOND LEVEL SANITARY PLAN
1/4" = 1'-0"



4 BUILDING B9 - THIRD LEVEL SANITARY PLAN
1/4" = 1'-0"

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CIVIL ENGINEER:
HUDDLESTON-STEELE ENGINEERING INC.
2112 N.W. BROAD ST.
MURFREESBORO, TN 37129
615.893.4084

LANDSCAPE ARCHITECT:
RAGAN SMITH
100 E. VINE ST., STE 200
MURFREESBORO, TN 37130
615.546.6050

STRUCTURAL ENGINEER:
HAINES STRUCTURAL GROUP
800 S. GAY ST., STE 1750
KNOXVILLE TN, 37929
865.329.9920

MECHANICAL & PLUMBING ENGINEER:
FACILITY SYSTEMS CONSULTANTS
713 S. CENTRAL ST., STE 101
KNOXVILLE TN, 37902
865.246.0164

ELECTRICAL ENGINEER:
FACILITY SYSTEMS CONSULTANTS
713 S. CENTRAL ST., STE 101
KNOXVILLE TN, 37902
865.246.0164

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21026

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Checked By:	L.T.HEADLA/J.W.HOLIWAY

Sheet Description:

P-121

BUILDING B - SANITARY PLAN

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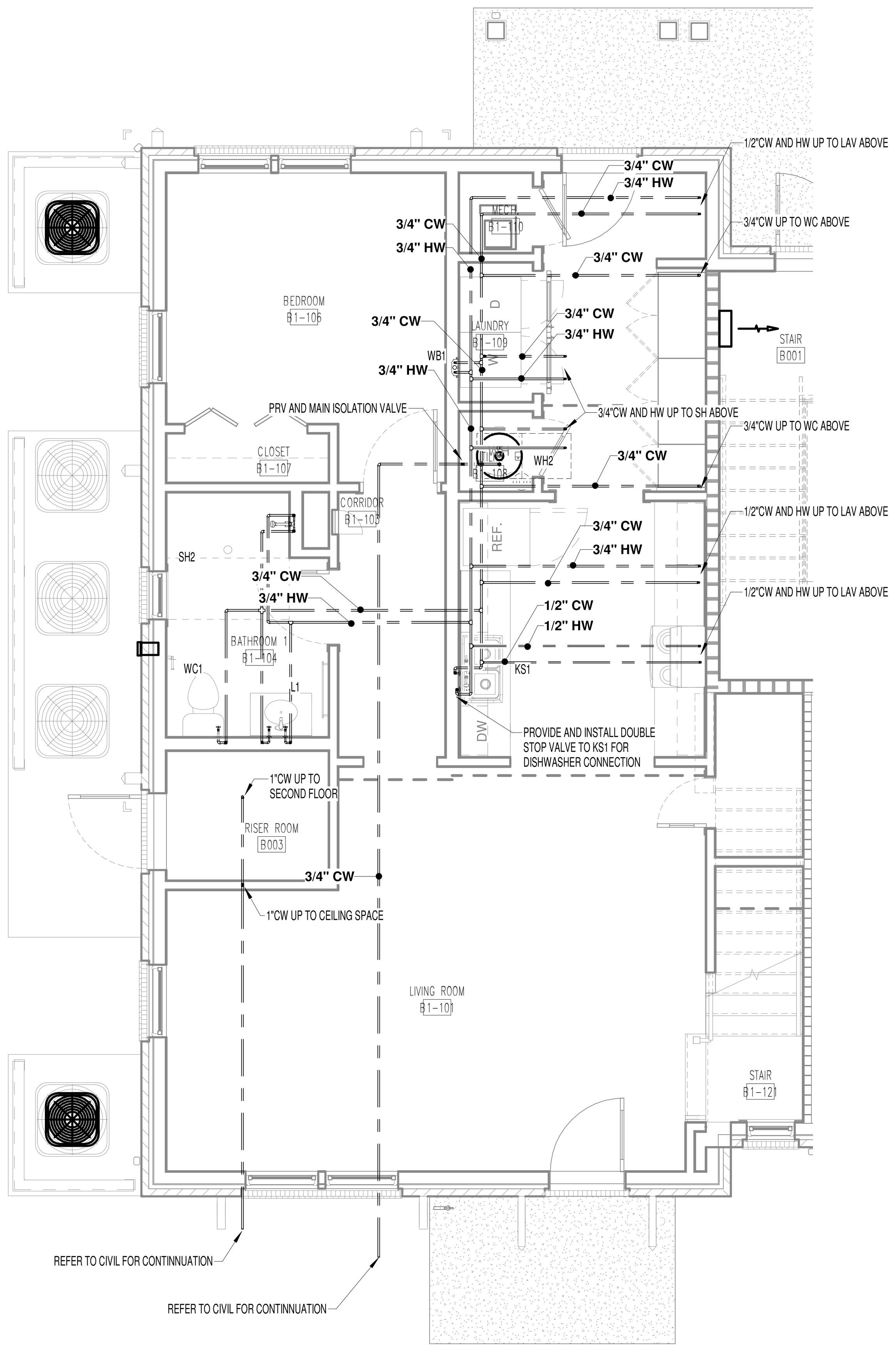
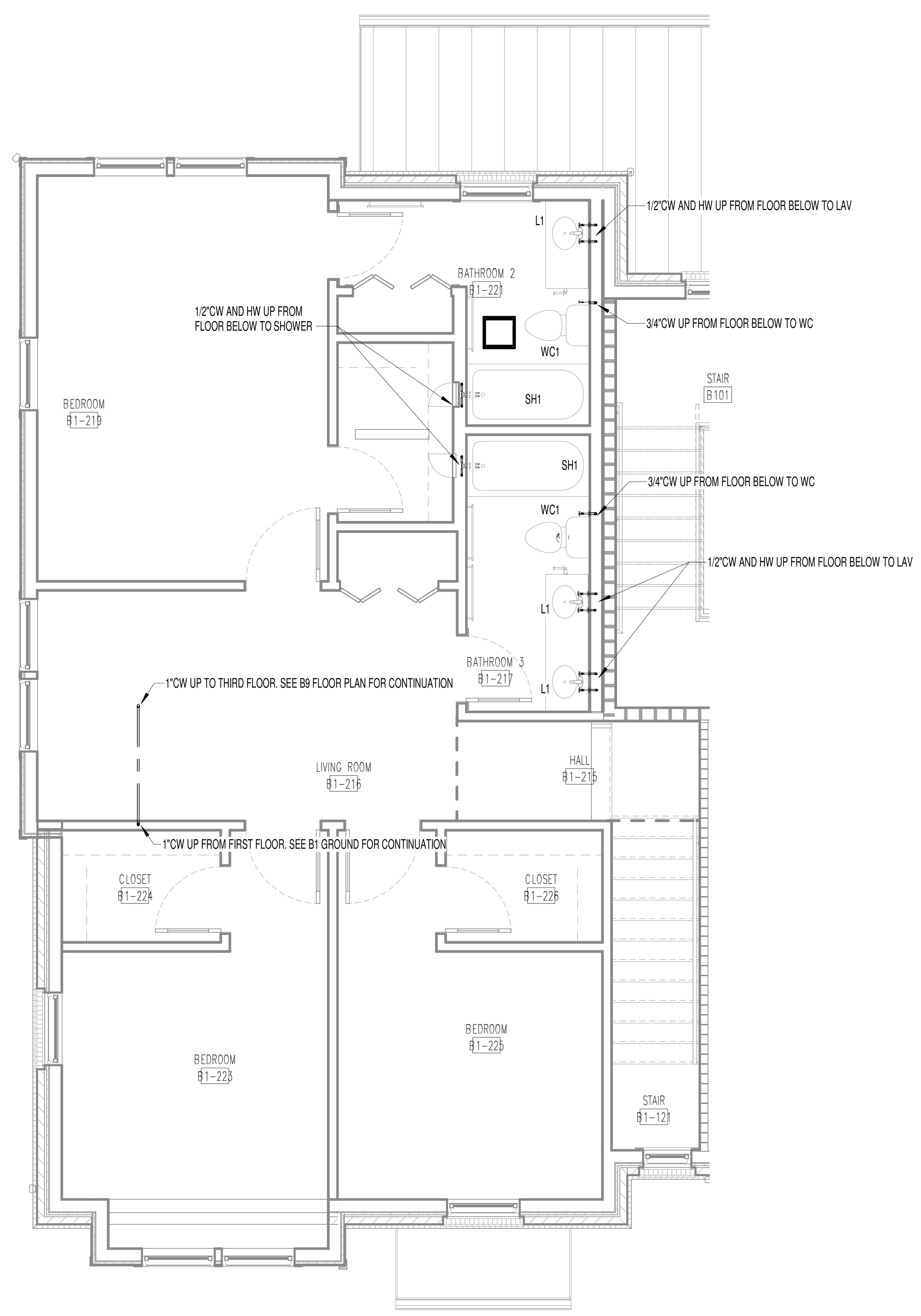
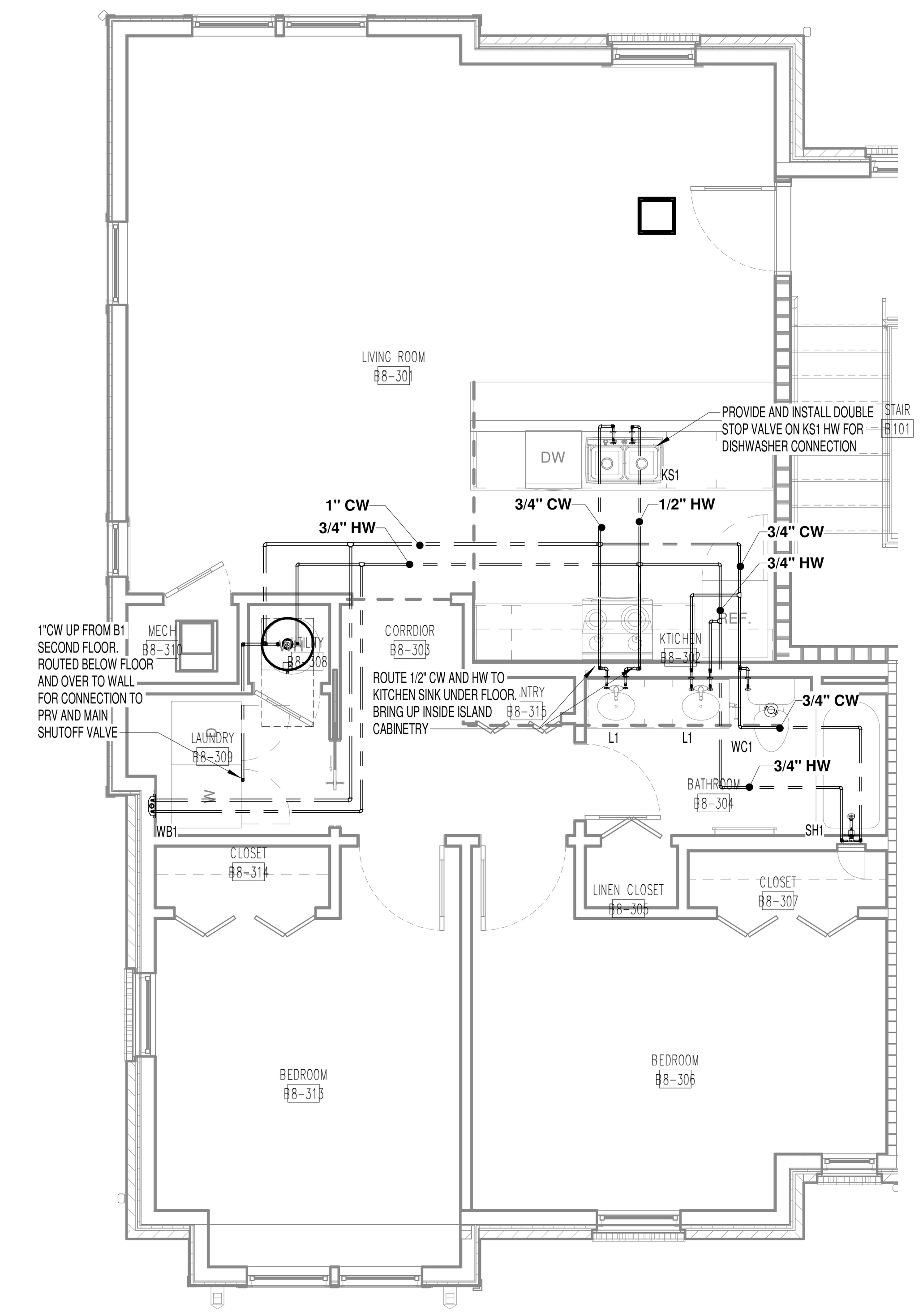


1 BUILDING B UNIT 1 - GROUND FLOOR DOMESTIC WATER PLAN
1/4" = 1'-0"



2 BUILDING B UNIT 1 - SECOND FLOOR DOMESTIC WATER PLAN
1/4" = 1'-0"



3 BUILDING B UNIT 8 -THIRD LEVEL DOMESTIC WATER PLAN
1/4" = 1'-0"

NOTE: PIPING FOR B1 SECOND FLOOR TO BE ROUTED IN THE CEILING OF B1 FIRST FLOOR

4/4/2022 3:32:16 PM

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550 W. Main St., Suite 300
Knoxville, TN 37902
t 865.544.2000
www.mhminc.com

Consultants:

CIVIL ENGINEER:
HUDDLESTON-STEELE ENGINEERING INC.
2112 N.W. BROAD ST.
MURFREESBORO, TN 37129
615.893.4084

LANDSCAPE ARCHITECT:
RAGAN SMITH
100 E. VINE ST., STE 200
MURFREESBORO, TN 37130
615.546.6050

STRUCTURAL ENGINEER:
HAINES STRUCTURAL GROUP
800 S. GAY ST., STE 1750
KNOXVILLE TN, 37929
865.329.9920

MECHANICAL & PLUMBING ENGINEER:
FACILITY SYSTEMS CONSULTANTS
713 S. CENTRAL ST., STE 101
KNOXVILLE TN, 37902
865.246.0164

ELECTRICAL ENGINEER:
FACILITY SYSTEMS CONSULTANTS
713 S. CENTRAL ST., STE 101
KNOXVILLE TN, 37902
865.246.0164

Project Information:

21026

MHA Parkside Housing

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Consultant:
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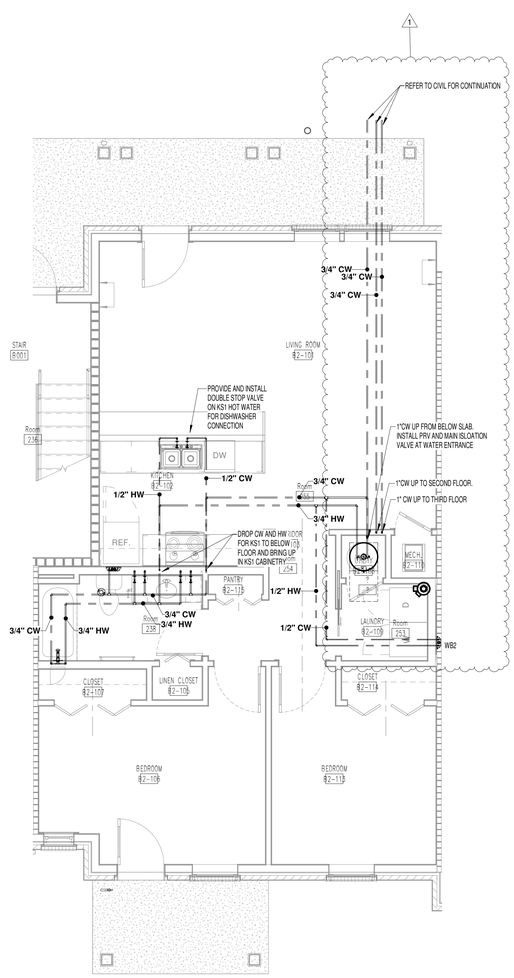
PA	G. TAYLOR
Drawn By:	DJN
Checked By:	L.T.HEADLA/J.W.HOLIWAY

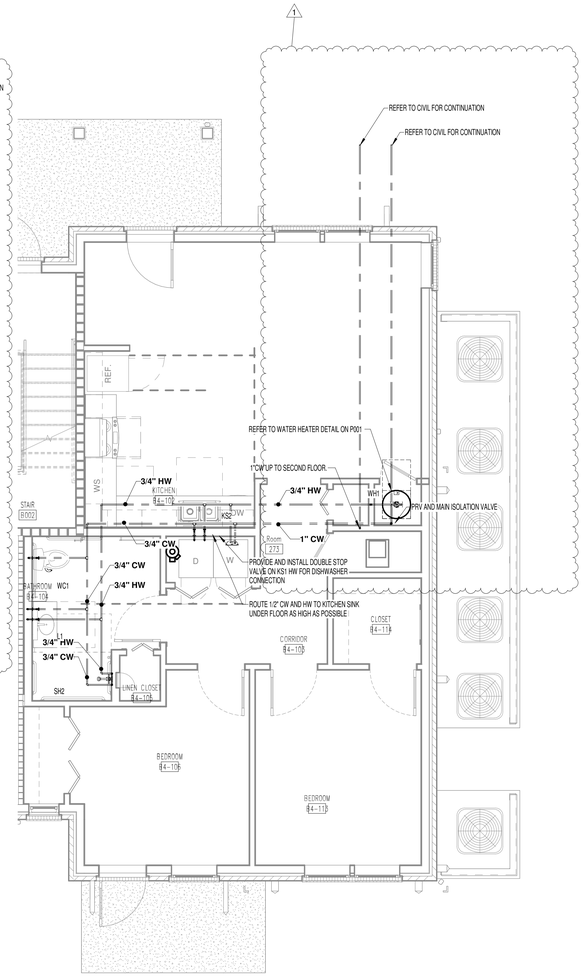
Sheet Description:

P-125

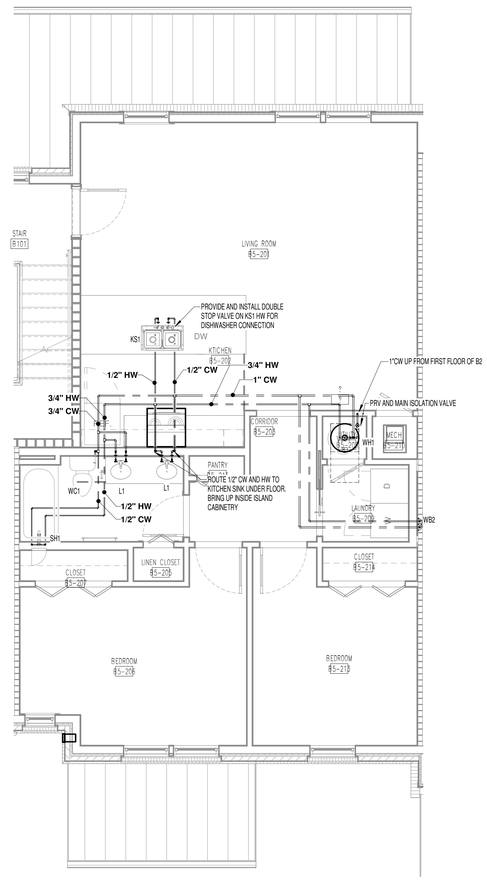
BUILDING B - DOMESTIC WATER PLAN



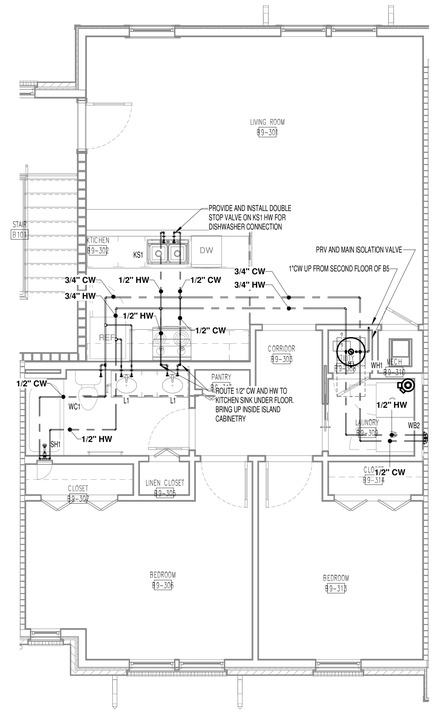
5 BUILDING B UNIT 2 - GROUND FLOOR DOMESTIC WATER PLAN
1/4" = 1'-0"



2 BUILDING B UNIT 4 - GROUND FLOOR DOMESTIC WATER PLAN
1/4" = 1'-0"



3 BUILDING B UNIT 5 - SECOND LEVEL DOMESTIC WATER PLAN
1/4" = 1'-0"



4 BUILDING B UNIT 9 - THIRD LEVEL DOMESTIC WATER PLAN
1/4" = 1'-0"

8/18/2022 1:50:01 PM

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550 W. Main St., Suite 300
Knoxville, TN 37902
t 865.544.2000
www.mhminc.com

Consultants:

CIVIL ENGINEER:

HUDDLESTON-STEELE ENGINEERING INC.
2112 N.W. BROAD ST.
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RAGAN SMITH
100 E. VINE ST., STE 200
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STRUCTURAL ENGINEER:

HAINES STRUCTURAL GROUP
800 S. GAY ST., STE 1750
KNOXVILLE TN, 37929
865.329.9920

MECHANICAL & PLUMBING ENGINEER:

FACILITY SYSTEMS CONSULTANTS
713 S. CENTRAL ST., STE 101
KNOXVILLE TN, 37902
865.246.0164

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713 S. CENTRAL ST., STE 101
KNOXVILLE TN, 37902
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21026

MHA Parkside Housing
550 W. MAIN ST. KNOXVILLE, TN 37919

JASON W. HOLIWAY — REGISTERED ENGINEER — AGRICULTURE — No. 109446 — STATE OF TENNESSEE — 2022

Consultant:

FACILITY SYSTEMS CONSULTANTS, LLC
713 South Central Street, Suite 101
Knoxville, Tennessee 37902
Phone: (865) 246-0164
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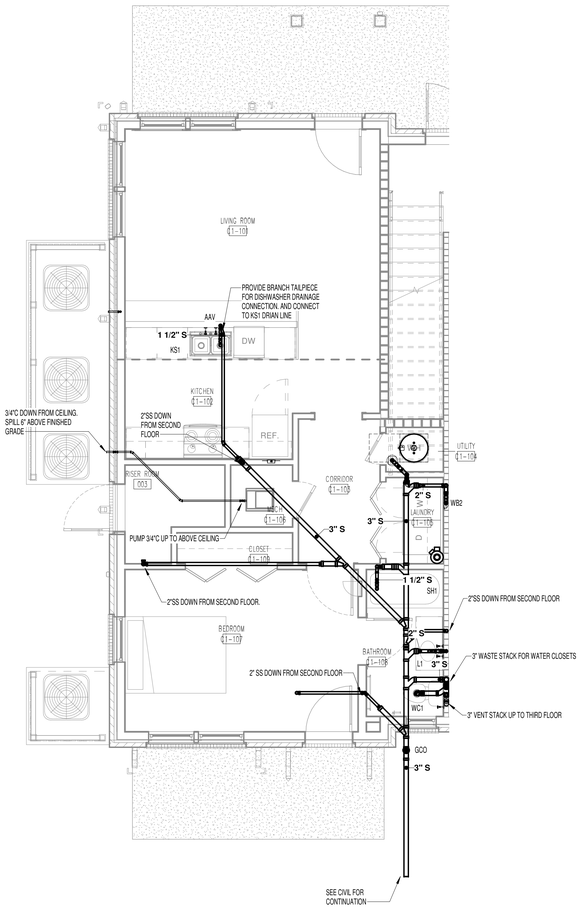
Checked By:	L.T.HEADLA/J.W.HOLIWAY

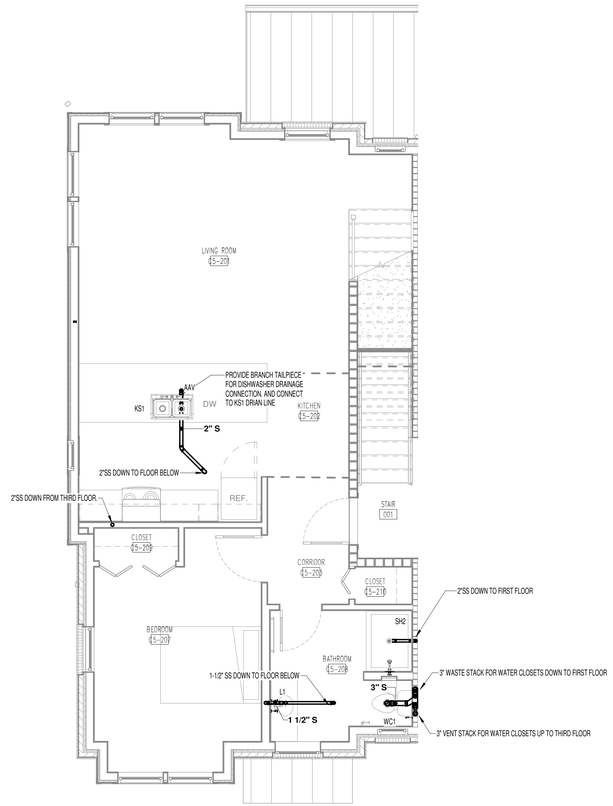
Sheet Description:

P-126

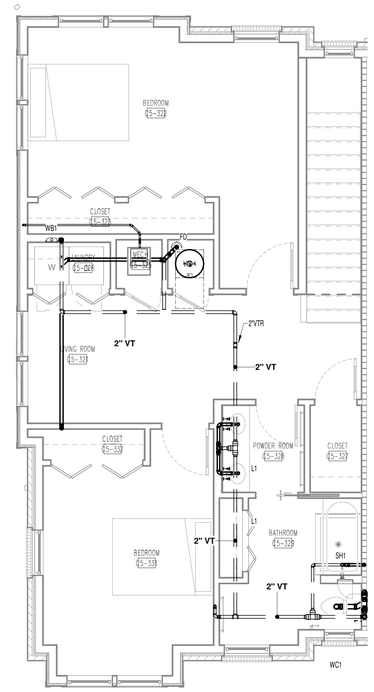
BUILDING B - DOMESTIC WATER PLAN



1 BUILDING C - UNIT 1 GROUND FLOOR SANITARY PLAN
1/4" = 1'-0"



3 BUILDING C - UNIT 5 SECOND FLOOR SANITARY PLAN
1/4" = 1'-0"



4 BUILDING C - UNIT 5 THIRD FLOOR SANITARY PLAN
1/4" = 1'-0"

4/4/2022 3:32:37 PM

MHM

McCarty Holsaple McCarty, Inc.
550 W. Main St., Suite 300
Knoxville, TN 37902
t 865.544.2000
www.mhminc.com

Consultants:

CIVIL ENGINEER:

HUDDLESTON-STEELE ENGINEERING INC.
2112 N.W. BROAD ST.
MURFREESBORO, TN 37129
615.893.4084

LANDSCAPE ARCHITECT:

RAGAN SMITH
100 E. VINE ST., STE 200
MURFREESBORO, TN 37130
615.546.6050

STRUCTURAL ENGINEER:

HAINES STRUCTURAL GROUP
800 S. GAY ST., STE 1750
KNOXVILLE TN, 37929
865.329.9920

MECHANICAL & PLUMBING ENGINEER:

FACILITY SYSTEMS CONSULTANTS
713 S. CENTRAL ST., STE 101
KNOXVILLE TN, 37902
865.246.0164

ELECTRICAL ENGINEER:

FACILITY SYSTEMS CONSULTANTS
713 S. CENTRAL ST., STE 101
KNOXVILLE TN, 37902
865.246.0164

Project Information:

21026

MHA Parkside Housing

550 W. MAIN ST. KNOXVILLE, TN 37919

JOHN W. HOLIWAY
REGISTERED
LANDSCAPE
ARCHITECT
AGRICULTURE
04/04/2022
No. 109446
STATE OF TENNESSEE

Consultant:

FACILITY SYSTEMS CONSULTANTS, LLC
713 South Central Street, Suite 101
Knoxville, Tennessee 37902
Phone: (865) 246-0164
Fax: (865) 246-1984

#	ISSUE	DATE

Issue Date:	04.07.2022
PIC	M. BUTLER
PM	M. BUTLER
PA	G. TAYLOR
Drawn By:	DJN
Checked By:	L.T.HEADLA/J.W.HOLIWAY

Sheet Description:

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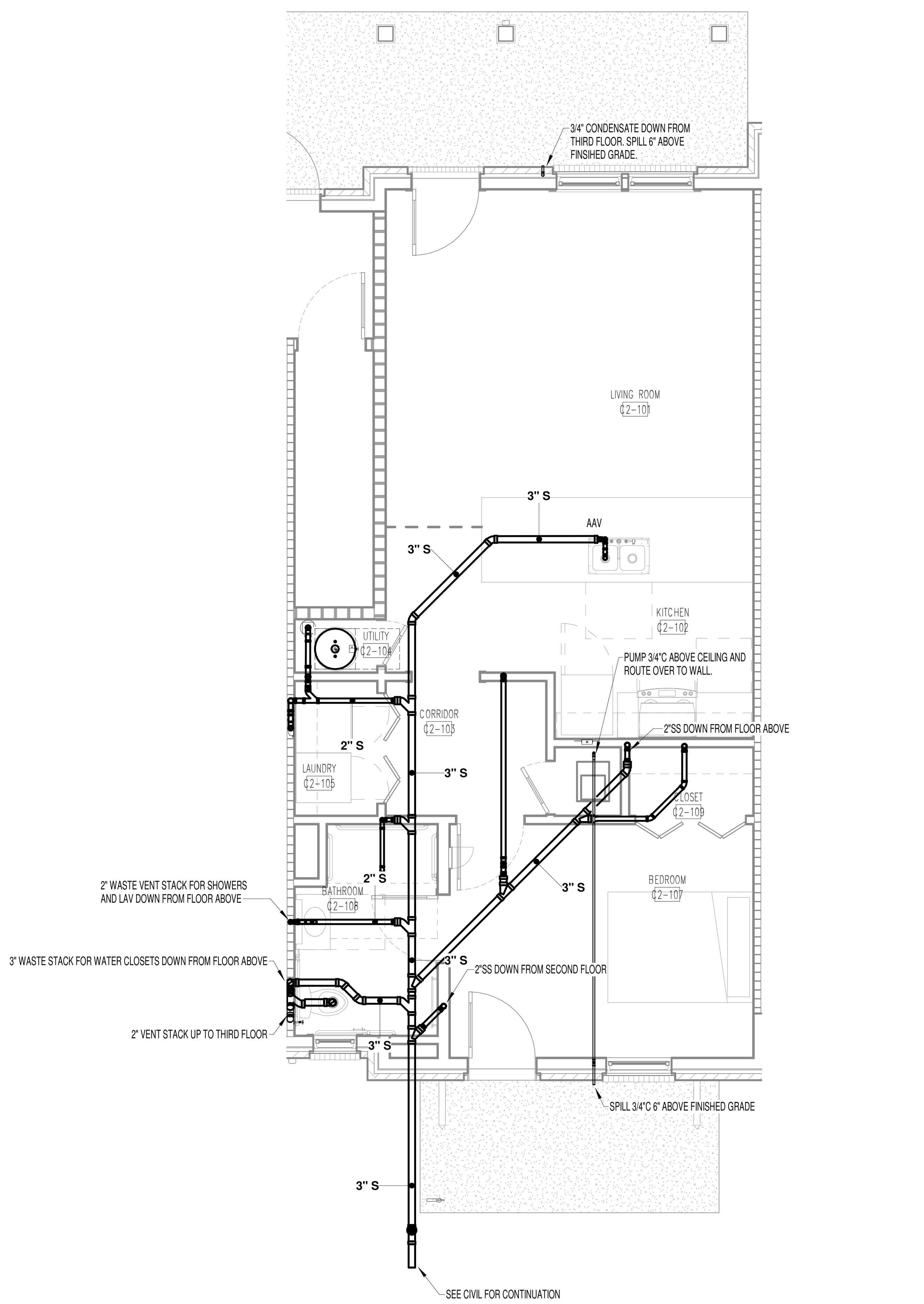
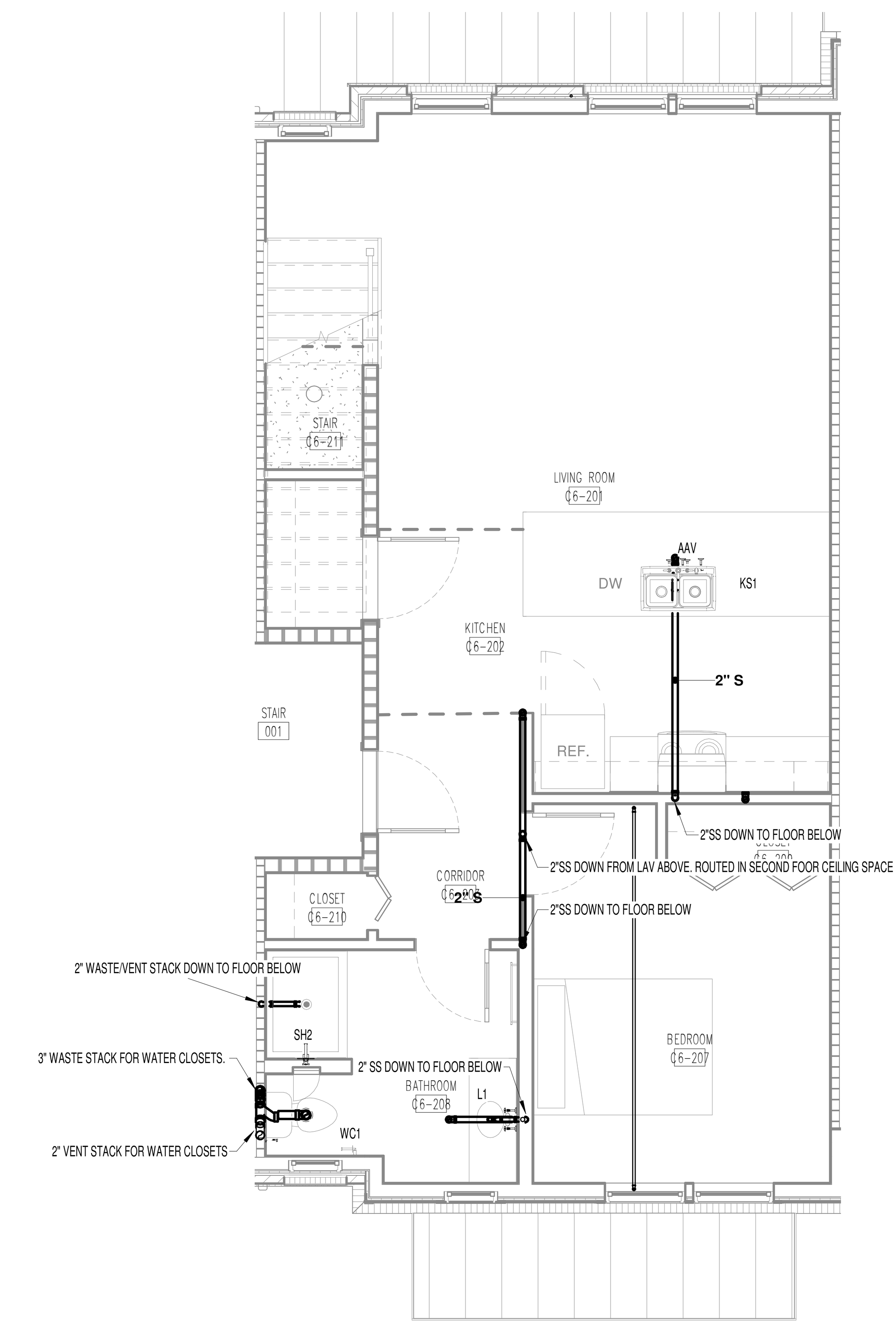
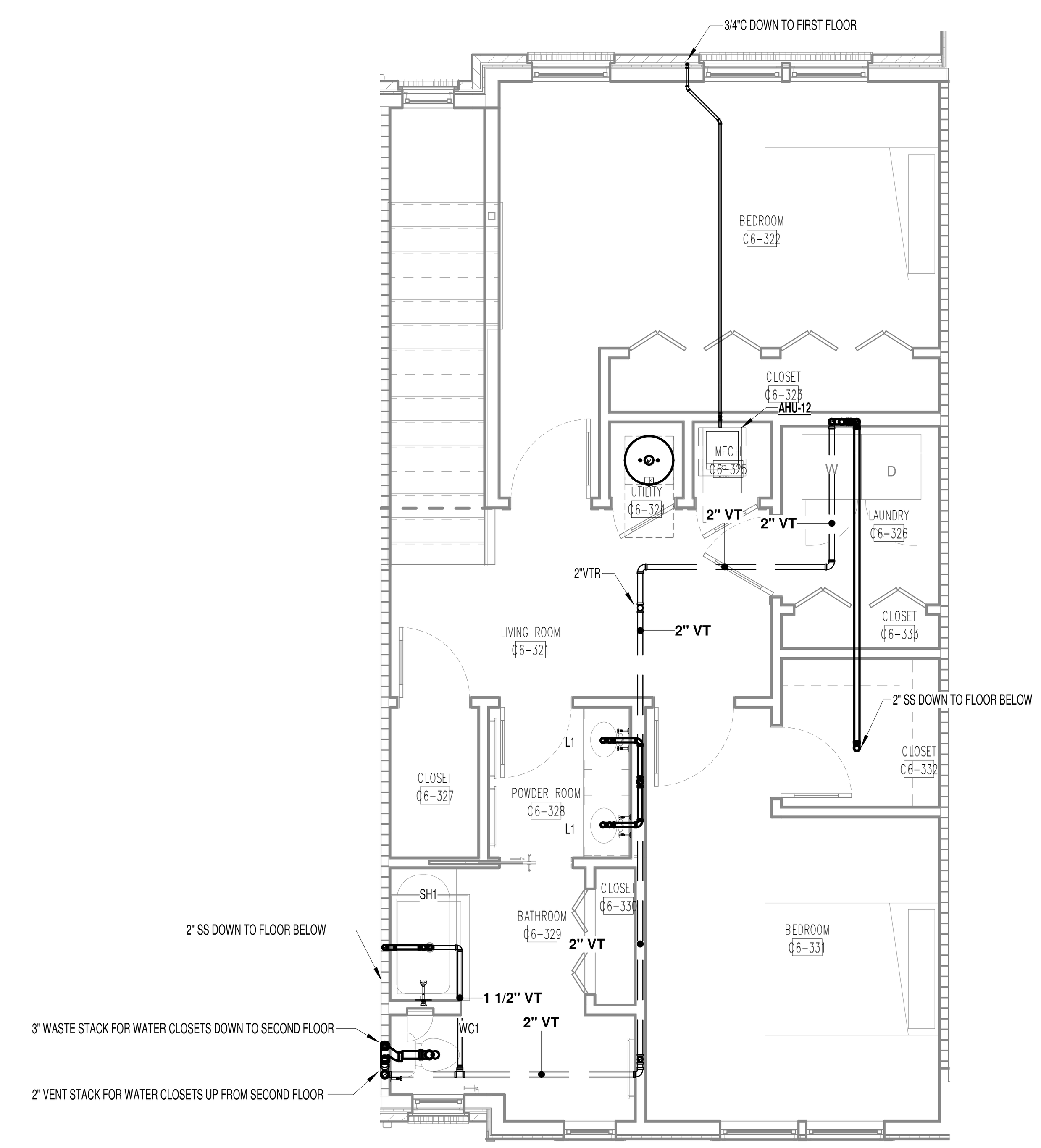
BUILDING C - SANITARY PLANS



3 BUILDING C UNIT 2 - GROUND LEVEL SANITARY PLAN
1/4" = 1'-0"



1 BUILDING C UNIT 6 - SECOND FLOOR SANITARY PLAN
1/4" = 1'-0"



2 BUILDING C UNIT 6 - THRID FLOOR SANITARY PLAN
1/4" = 1'-0"

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McCarty Holsaple McCarty, Inc.
550 W. Main St., Suite 300
Knoxville, TN 37902
t 865.544.2000
www.mhminc.com

Consultants:

CIVIL ENGINEER:

HUDDLESTON-STEELE ENGINEERING INC.
2112 N.W. BROAD ST.
MURFREESBORO, TN 37129
615.893.4084

LANDSCAPE ARCHITECT:

RAGAN SMITH
100 E. VINE ST., STE 200
MURFREESBORO, TN 37130
615.546.6050

STRUCTURAL ENGINEER:

HAINES STRUCTURAL GROUP
800 S. GAY ST., STE 1750
KNOXVILLE TN, 37929
865.329.9920

MECHANICAL & PLUMBING ENGINEER:

FACILITY SYSTEMS CONSULTANTS
713 S. CENTRAL ST., STE 101
KNOXVILLE TN, 37902
865.246.0164

ELECTRICAL ENGINEER:

FACILITY SYSTEMS CONSULTANTS
713 S. CENTRAL ST., STE 101
KNOXVILLE TN, 37902
865.246.0164

Project Information:

21026

MHA Parkside Housing

550 W. MAIN ST. KNOXVILLE, TN 37919

Consultant:

FACILITY SYSTEMS CONSULTANTS, LLC

#	ISSUE	DATE

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PIC	M. BUTLER
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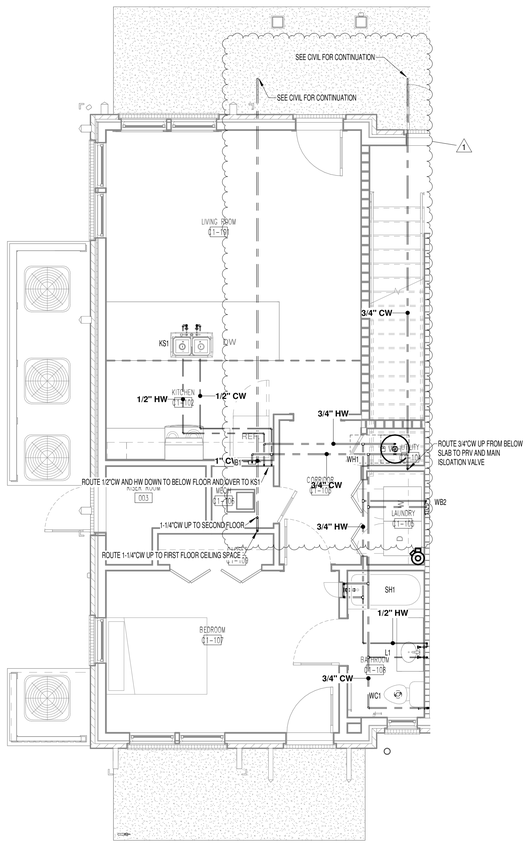
PA	G. TAYLOR
Drawn By:	DJN
Checked By:	L.T.HEADLAU.W.HOLIWAY

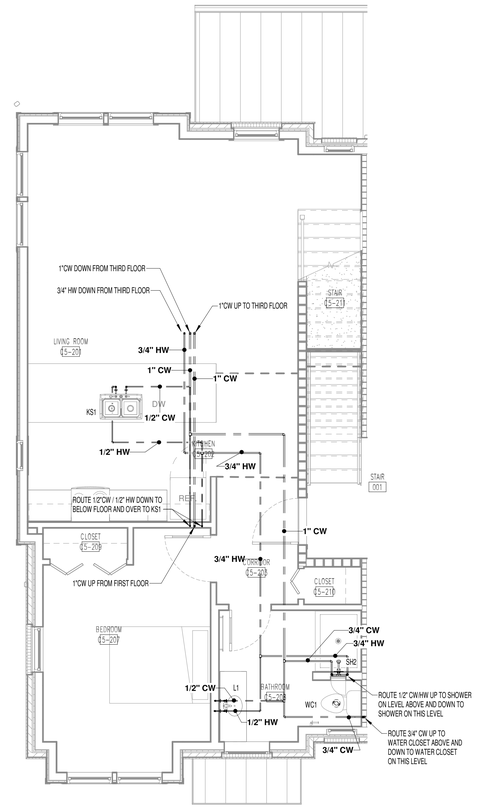
Sheet Description:

P-131

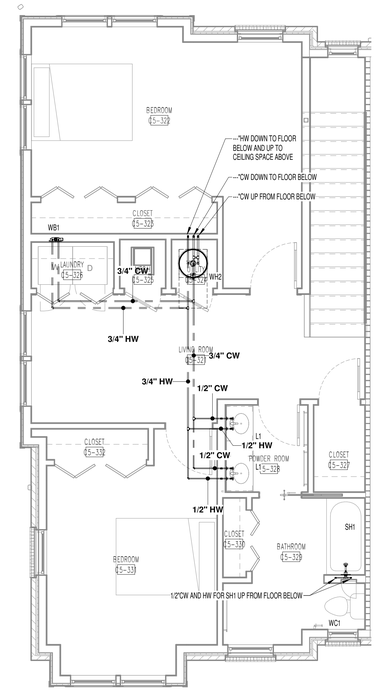
BUILDING C - SANITARY PLAN



1 BUILDING C UNIT 1 - GROUND FLOOR DOMESTIC WATER PLAN
1/4" = 1'-0"



3 BUILDING C UNIT 5 - SECOND FLOOR DOMESTIC WATER PLAN
1/4" = 1'-0"



4 BUILDING C UNIT 5 - THIRD FLOOR DOMESTIC WATER PLAN
1/4" = 1'-0"

8/18/2022 1:50:04 PM

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McCarty Holsaple McCarty, Inc.
550 W. Main St., Suite 300
Knoxville, TN 37902
t 865.544.2000
www.mhminc.com

Consultants:

CIVIL ENGINEER:

HUDDLESTON-STEELE ENGINEERING INC.
2112 N.W. BROAD ST.
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RAGAN SMITH
100 E. VINE ST., STE 200
MURFREESBORO, TN 37130
615.546.6050

STRUCTURAL ENGINEER:

HAINES STRUCTURAL GROUP
800 S. GAY ST., STE 1750
KNOXVILLE TN, 37929
865.329.9920

MECHANICAL & PLUMBING ENGINEER:

FACILITY SYSTEMS CONSULTANTS
713 S. CENTRAL ST., STE 101
KNOXVILLE TN, 37902
865.246.0164

ELECTRICAL ENGINEER:

FACILITY SYSTEMS CONSULTANTS
713 S. CENTRAL ST., STE 101
KNOXVILLE TN, 37902
865.246.0164

Project Information:

21026

MHA Parkside Housing

550 W. MAIN ST. KNOXVILLE, TN 37919

JASON W. HOLIWAY — REGISTERED ENGINEER — AGRICULTURE — FIRE — COMMERCE — No. 108448 — STATE OF TENNESSEE

Consultant:

FACILITY SYSTEMS CONSULTANTS, LLC
713 South Central Street, Suite 101
Knoxville, Tennessee 37902
Phone: (865) 246-0164
Fax: (865) 246-1644

#	ISSUE	DATE
1	REVISION 01 - CITY COMMENTS RESPONSE	8/23/2022

Issue Date:	04.07.2022
PIC	M. BUTLER
PM	M. BUTLER
PA	G. TAYLOR
Drawn By:	DJN
Checked By:	L.T.HEADLA/J.W.HOLIWAY

Sheet Description:

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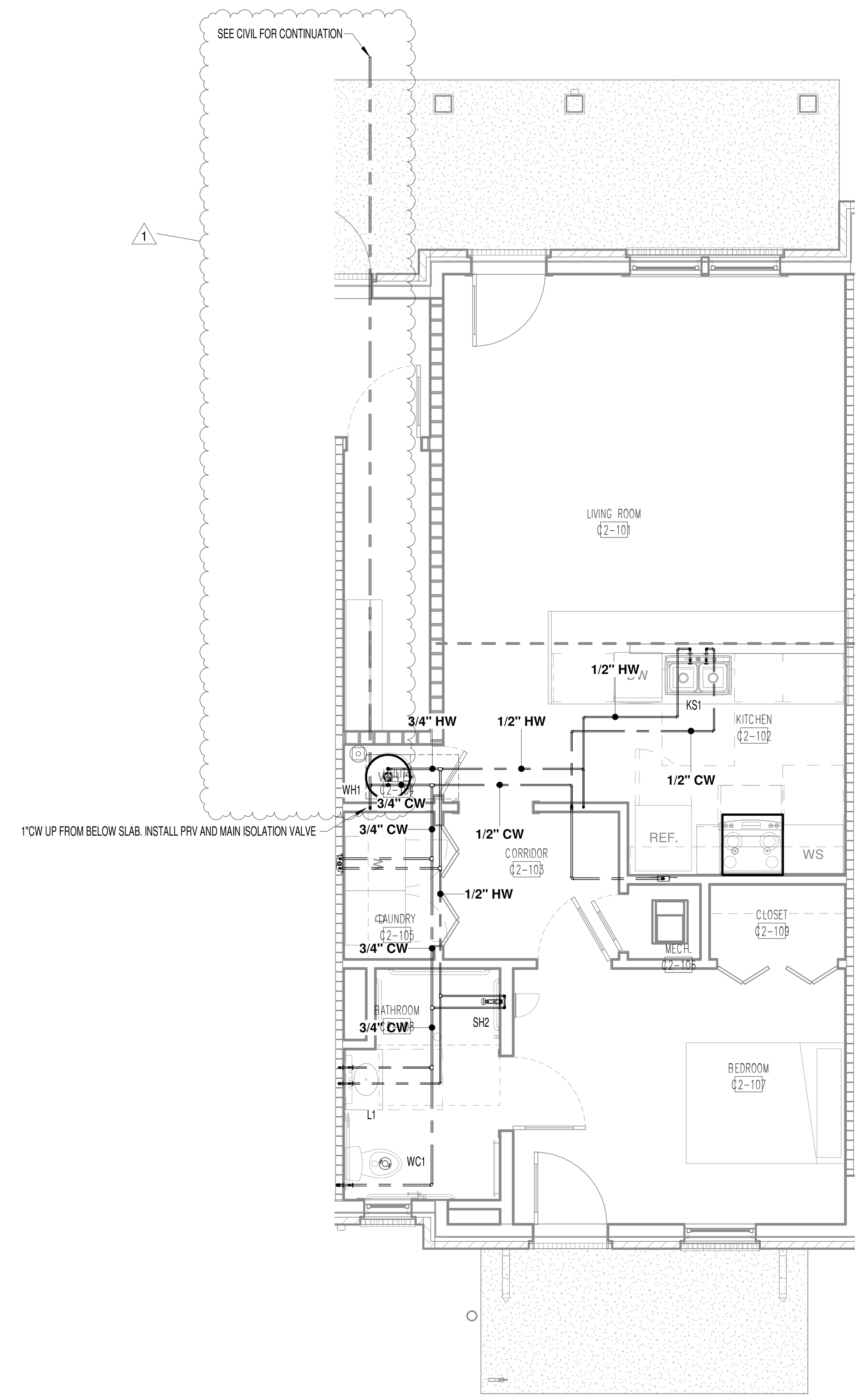
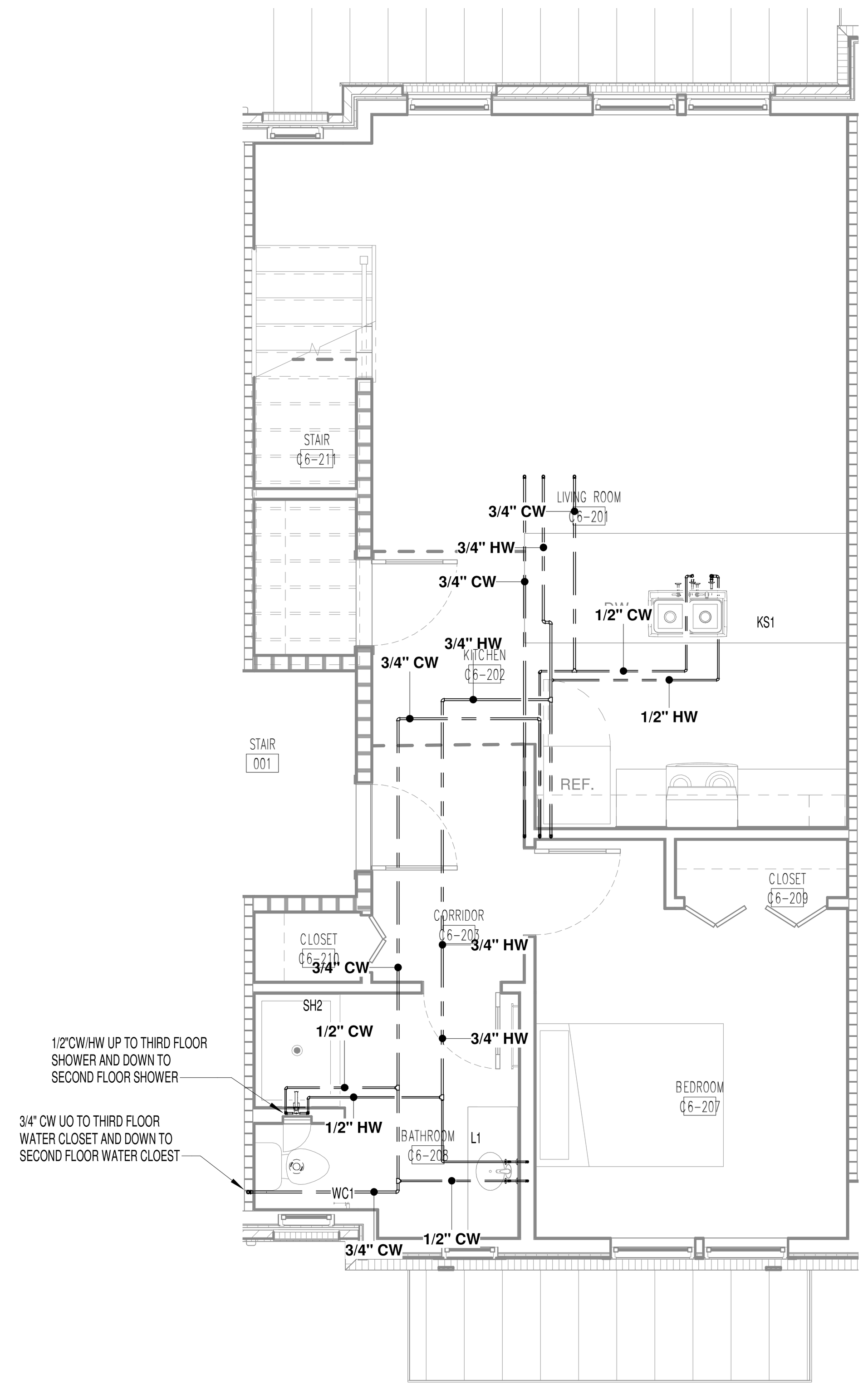
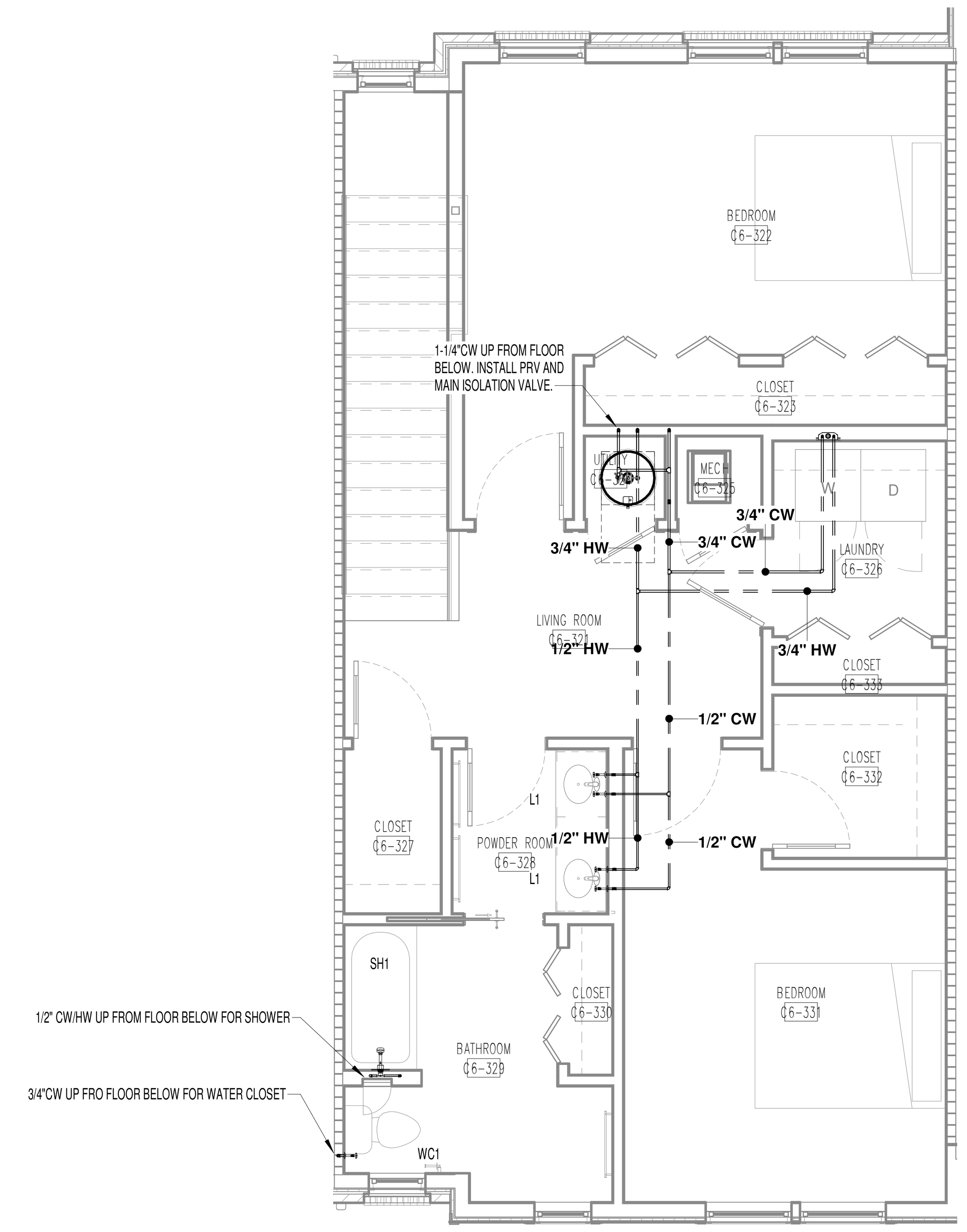
BUILDING C - DOMESTIC WATER PLAN



3 BUILDING C UNIT 2 - GROUND LEVEL DOMESTIC WATER PLAN
1/4" = 1'-0"



1 BUILDING C UNIT 6 - SECOND FLOOR DOMESTIC WATER PLAN
1/4" = 1'-0"



2 BUILDING C UNIT 6 - THRID FLOOR DOMESTIC WATER PLAN
1/4" = 1'-0"

MHM

McCarty Holsaple McCarty, Inc.
550 W. Main St., Suite 300
Knoxville, TN 37902
t 865.544.2000
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CIVIL ENGINEER:
HUDDLESTON-STEELE ENGINEERING INC.
2112 N.W. BROAD ST.
MURFREESBORO, TN 37129
615.893.4084

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615.546.6050

STRUCTURAL ENGINEER:
HAINES STRUCTURAL GROUP
800 S. GAY ST., STE 1750
KNOXVILLE TN, 37929
865.329.9920

MECHANICAL & PLUMBING ENGINEER:
FACILITY SYSTEMS CONSULTANTS
713 S. CENTRAL ST., STE 101
KNOXVILLE TN, 37902
865.246.0164

ELECTRICAL ENGINEER:
FACILITY SYSTEMS CONSULTANTS
713 S. CENTRAL ST., STE 101
KNOXVILLE TN, 37902
865.246.0164

Project Information:

21026

MHA Parkside Housing

550 W. MAIN ST. KNOXVILLE, TN 37919

JASON W. HOLIWAY
REGISTERED ENGINEER
AGRICULTURE COMMERCE
NO. 109446
STATE OF TENNESSEE

Consultant:

FACILITY SYSTEMS CONSULTANTS, LLC

#	ISSUE	DATE
1	REVISION 01 - CITY COMMENTS RESPONSE	8/23/2022

Issue Date:	04.07.2022
PIC	M. BUTLER
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PA	G. TAYLOR
Drawn By:	DJN
Checked By:	L.T.HEADLA/J.W.HOLIWAY

Sheet Description:

P-136

BUILDING C - DOMESTIC WATER PLAN

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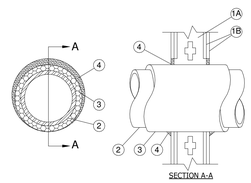
ELECTRIC SPLIT SYSTEM HEAT PUMP SCHEDULE (TYPICAL)

INDOOR DRAWING SYMBOL	OUTDOOR DRAWING SYMBOL	CFM	CFM O.A.	EXT. S.P. IN.	CAPACITY (BTUH)			HEAT PUMP UNIT				AIR HANDLER UNIT					EVAP. FAN H.P.	EER/ SEER	HSPF	MANUFACTURER & MODEL NO.	
					TOTAL COOLING	SEN. COOLING	HEAT	WGT. LBS.	MCA	MOP	VOLT.	WGT. LBS.	AUX. HEAT	MCA	MOP	VOLT.				AIR HANDLER	HEAT PUMP
AHU-1	HP-1	1,200	0	0.4	36,000	26,400	34,200	200	25	40	230/1	130	10.8KW	70	70	230/1	1/3	13.0/ 16.0	8.2	RHEEM RH1V3621M	RHEEM RP1636
AHU-2	HP-2	1,200	0	0.4	36,000	26,400	34,200	200	25	40	230/1	130	10.8KW	70	70	230/1	1/3	13.0/ 16.0	8.2	RHEEM RH1V3621M	RHEEM RP1636
AHU-3	HP-3	1,400	--	.4	36,000	26,400	34,200	200	25	40	230/1	130	10.8KW	70	70	230/1	1/3	13.0/ 16.0	8.2	RHEEM RH1V4821ST	RHEEM RP1636
AHU-4	HP-4	600	--	.4	24,000	17,600	22,600	191	20	30	230/1	82	5.4KW	36	40	230/1	1	13.0/ 16.0	8.5	RHEEM RH1V2417S	RHEEM RP1624
AHU-5	HP-5	800	0	.4	24,000	17,600	22,600	191	20	30	230/1	82	5.4KW	36	40	230/1	1	13.0/ 16.0	8.5	RHEEM RH1V2417S	RHEEM RP1624
AHU-6	HP-6	800	0	.4	24,000	17,600	22,600	191	20	30	230/1	82	5.4KW	36	40	230/1	1	13.0/ 16.0	8.5	RHEEM RH1V2417S	RHEEM RP1624
AHU-7	HP-7	800	0	.4	24,000	17,600	22,600	191	20	30	230/1	82	5.4KW	36	40	230/1	1	13.0/ 16.0	8.5	RHEEM RH1V2417S	RHEEM RP1624
AHU-8	HP-8	800	0	.4	24,000	17,600	22,600	191	20	30	230/1	82	5.4KW	36	40	230/1	1	13.0/ 16.0	8.5	RHEEM RH1V2417S	RHEEM RP1624
AHU-9	HP-9	600	0	.4	24,000	17,600	22,600	191	20	30	230/1	82	5.4KW	36	40	230/1	1	13.0/ 16.0	8.5	RHEEM RH1V2417ST	RHEEM RP1624
AHU-10	HP-10	600	0	.4	24,000	17,600	22,600	191	20	30	230/1	82	5.4KW	36	40	230/1	1	13.0/ 16.0	8.5	RHEEM RH1V2417S	RHEEM RP1624
AHU-11	HP-11	1,200	0	0.4	36,000	26,400	34,200	200	25	40	230/1	130	10.8KW	70	70	230/1	1/3	13.0/ 16.0	8.2	RHEEM RH1V3621M	RHEEM RP1636
AHU-12	HP-12	1,200	0	0.4	36,000	26,400	34,200	200	25	40	230/1	130	10.8KW	70	70	230/1	1/3	13.0/ 16.0	8.2	RHEEM RH1V3621M	RHEEM RP1636

ACCESSORIES AND FEATURES:
* 5 YEAR COMPRESSOR WARRANTY.
* EQUIPMENT TO BE AR CERTIFIED AND UL APPROVED.
* COOLING CAPACITY AT 80/67 E.A.T., 95 O.D.T.
* HEATING CAPACITY AT 47° O.D.T.
* ESP DOES NOT INCLUDE FILTER SECTION.
* PROVIDE FILTER RACK AND 1" THICK THROW-AWAY FILTER
* PROVIDE DIGITAL NON-PROGRAMMABLE THERMOSTAT WITH AUTO-SWITCH OVER, EQUAL TO HONEYWELL TH1110DV1009
* PROVIDE PRE-CHARGED REFRIGERANT LINE KITS. (PROVIDE ACR COPPER REFRIGERANT TUBING WITH FILTER DRYER, SIGHT GLASS, AND SERVICE VALVES).
* PROVIDE LOW AMBIENT HEAD PRESSURE CONTROL TO 0°F.
* ALTERNATE MANUFACTURERS: TRANE, CARRIER, AND LENNOX
* CONTRACTOR SHALL REFER TO PLANS FOR QUANTITIES.
* PROVIDE AIR HANDLERS WITH SINGLE POINT POWER CONNECTION.
* SAFETY DISCONNECT BY ELECTRICAL

System No.W-L-S147
September 03, 2004
F Ratings – 1 and 2 Hr (See Item 1)
T Ratings – 1 and 2 Hr (See Item 1)



SECTION A-A

1. Wall Assembly - The 1 or 2 hr fire-rated gypsum board/stud wall assembly shall be constructed of the materials and in the manner specified in the individual U300 or U400 Series Wall or Partition Designs in the UL Fire Resistance Directory and shall include the following construction features:

A. **Studs** - Wall framing may consist of either wood studs or steel channel studs. Wood studs to consist of nom 2 in. by 4 in. (51 mm by 102 mm) lumber spaced 16 in. (406 mm) OC. Steel studs to be min 3-5/8 in. (92 mm) wide spaced max 24 in. (610 mm) OC.
B. **Gypsum Board*** - Nom 5/8 in. (16 mm) thick, 4 ft (122 cm) wide with square or tapered edges. The gypsum board type, number of layers, fastener type and sheet orientation shall be as specified in the individual Wall and Partition Design. Max diam of opening is 10-1/2 in. (267 mm).

The hourly F and T Ratings for the firestop system are equal to the hourly fire rating of the wall assembly in which it is installed.

2. Through Penetrants - One metallic pipe or tubing to be installed either concentrically or eccentrically within the firestop system. Penetrants to be rigidly supported on both sides of floor or wall assembly. The following types and sizes of metallic pipes or tubings may be used:

A. **Steel Pipe** - Nom 6 in. (152 mm) diam (or smaller) Schedule 10 (or heavier) steel pipe.
B. **Iron Pipe** - Nom 6 in. (152 mm) diam (or smaller) cast or ductile iron pipe.
C. **Conduit** - Nom 6 in. (152 mm) diam (or smaller) steel conduit, or nom 4 in. (or smaller) steel electrical metallic tubing.
D. **Copper Tubing** - Nom 2 in. (51 mm) diam (or smaller) Type M (or heavier) copper tube.
E. **Copper Pipe** - Nom 2 in. (51 mm) diam (or smaller) Regular (or heavier) copper pipe.

3. Pipe Covering* - Nom 1 in. or 1-1/2 in. (25 mm or 38 mm) thick hollow cylindrical heavy density glass fiber units jacketed on the outside with an all service jacket. Longitudinal joints sealed with metal fasteners or factory-applied SSL tape. Transverse joints secured with metal fasteners or with butt tape supplied with the product. The annular space between the insulated pipe and the edge of the through opening shall be min 0 in. (point contact) to max 1-1/2 in. (0 mm to max 38 mm).

See **Pipe and Equipment Covering - Materials** (BRGU) category in the Building Materials Directory for names of manufacturers. Any pipe covering material meeting the above specifications and bearing the UL Classification Marking with a Flame Spread Index of 25 or less and a Smoke Developed Index of 50 or less may be used

4. Fill,Void or Cavity Material* - Caulk or Sealant - Min 5/8 in. (16 mm) thickness of fill material applied within the annulus, flush with both surfaces of wall. Min 1/2 in. (13 mm) diam bead of caulk or sealant applied to the pipe covering/gypsum board interface at the point contact location on both sides of wall.

3M COMPANY - FD-150+, IC 15WB caulk or FB-3000 WT sealant.

*Bearing the UL Classification Mark

HVAC LEGEND & SYMBOLS

	A. RECTANGULAR DUCT: * MANUAL OPPOSED BLADE DAMPER WITH LOCKING QUADRANT. LEVER OPERATOR, OF STEEL CONSTRUCTION. * LOUVERS & DAMPERS MODEL CD-400; KRUEGER MODEL 88D-DM TYPE 2 OPERATION FOR LESS THAN 10" WIDE. A. ROUND DUCT: * ROUND BLADE CONTROL DAMPER OF STEEL CONSTRUCTION WITH MANUAL OPERATOR * LOUVERS AND DAMPERS MODEL CD-600.
	RECTANGULAR ELBOW WITH SINGLE THICKNESS TURNING VANES OF STEEL CONSTRUCTION.
45° W	CONSTRUCT ALL BRANCH CONNECTIONS WITH 45° FITTING PER SMACNA STANDARDS. DIMENSION: L = 1/4W, 4"MINIMUM
D	SHEET METAL CONNECTORS, INC. HIGH EFFICIENCY TAKEOFF WITH DAMPER AND LOCKING QUADRANT FOR ROUND DUCT TAKEOFFS FROM RECTANGULAR DUCTWORK. INCREASE MAIN DUCT SIZE AT FITTING TO ACCOMMODATE ITS INSTALLATION IF REQUIRED TO MEET SMACNA AND MANUFACTURER'S INSTRUCTIONS. DIMENSION: D = RUNOUT DIAMETER (6"-14")
	DUCT RISER
	DUCT DROP
	ROUND DUCT RISER
	ROUND DUCT DROP
	FLEXIBLE DUCT EQUAL TO FLEXMASTER TYPE 3 INSULATED FLEXIBLE DUCT WITH ALUMINUM FOIL JACKET AND ALUMINUM FOIL FIBERGLASS POLYESTER LAMINATE LINER. INSTALL IN ACCORDANCE WITH SECTION III OF SMACNA'S "HVAC DUCT CONSTRUCTION STANDARDS, METAL AND FLEXIBLE".
	SUPPLY DUCT
	RETURN DUCT
	EXHAUST DUCT
XX-X	INDICATES NEW HVAC EQUIPMENT
	DUCT TRANSITION
DG	DOOR GRILLE
BD	BALANCING DAMPER
M	MOTORIZED DAMPER
UC	INDICATES 3/4" UNDERCUT DOOR
	CONNECT TO EXISTING SYMBOL
T	WALL MOUNTED THERMOSTAT
	SUPPLY DIFFUSER W/ FLEX DUCT (CD)
	EGGCRATE CEILING RETURN (CR)
	CEILING EXHAUST GRILLE (CE)
	EXHAUST FAN (EF)
	SIDEWALL SUPPLY GRILLE
	SIDEWALL RETURN GRILLE

GENERAL NOTES:

1. CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS BEFORE FABRICATION OF H.V.A.C. COMPONENTS OR PURCHASE OF EQUIPMENT.
2. CONTRACTOR SHALL COORDINATE ALL OTHER TRADES WITH THE INSTALLATION OF H.V.A.C. SYSTEM.
3. H.V.A.C. LEGEND MAY CONTAIN SYMBOLS AND ABBREVIATIONS NOT USED ON THIS SPECIFIC PROJECT, LEGEND SHALL BE USED FOR REFERENCE PURPOSES.
4. CONTRACTOR IS RESPONSIBLE FOR THE COMPLETE H.V.A.C. SYSTEM AS IT RELATES TO DRAWINGS AND SPECIFICATIONS.
5. CONTRACTOR IS REQUIRED TO REVIEW ARCHITECTURAL PLANS FOR RATED ASSEMBLIES. CONTRACTOR IS RESPONSIBLE FOR INSTALLATION OF FIRE AND/OR SMOKE DAMPERS IN ACCORDANCE WITH THE SPECIFICATIONS AND APPLICABLE BUILDING CODES.
6. "STANDARD" ACCESSORIES OR CONTROLS ON H.V.A.C. EQUIPMENT SHALL BE THOSE WHICH MANUFACTURER PROVIDES ON THE MAJORITY OF STOCK MERCHANDISE.
7. BRAND NAMES AND MODEL NUMBERS ARE PROVIDED TO ESTABLISH A LEVEL OF QUALITY AND PERFORMANCE. "EQUAL TO" ITEMS MAY BE SUBMITTED FOR CONSIDERATION BY THE ENGINEER AND OWNER.
8. THE DRAWINGS ARE GENERALLY DIAGRAMMATIC AND INDICATE THE APPROXIMATE ROUTING OF PIPING AND DUCTWORK. CONTRACTOR SHALL COORDINATE HIS WORK WITH OTHER TRADES. MINOR OFFSETS AND ADJUSTMENTS SHALL BE PROVIDED WHERE REQUIRED AT NO ADDITIONAL COST TO THE OWNER.
9. COORDINATE CEILING DIFFUSERS AND REGISTER LOCATIONS WITH ARCHITECT'S REFLECTED CEILING PLAN.

HVAC NOTES:

1. THE CONTRACTOR IS RESPONSIBLE TO PROVIDE SUPPLY, RETURN AND EXHAUST DUCT AS FOLLOWS; DUCTWORK TO BE DESIGNED, BRACED, AND SUPPORTED IN ACCORDANCE WITH SMACNA FOR LOW PRESSURE APPLICATIONS. SEAL CLASS C PER SMACNA HVAC DUCT CONSTRUCTION STANDARDS - METAL AND FLEXIBLE DUCTWORK (FLEXIBLE DUCT MAX. 5') SMACNA-06). SINGLE WIRE HANGERS SHALL NOT BE ALLOWED FOR FLEXIBLE DUCTWORK SUPPORT. FLEXIBLE DUCTWORK SHALL BE SUPPORTED IN A MANNER THAT PREVENTS CONSTRICTION OR DIPS. INSULATION SHALL BE AS NOTED BELOW.
2. ALL DUCT ELBOWS SHALL BE 1.5 R/D, UNLESS NOTED OTHERWISE.
3. MANUAL OPPOSED BLADE DAMPERS SHALL BE PLACED IN EACH BRANCH OF SUPPLY DUCTWORK FOR FINAL BALANCING PURPOSES. BALANCING DEVICES SHALL BE IN ACCORDANCE WITH IMC (2012) 603.18.
4. CONTRACTOR SHALL FIELD VERIFY ALL DUCT ROUTING DIMENSIONS AND TERMINAL DEVICES TO AVOID INTERFERENCES. CONTRACTOR IS RESPONSIBLE FOR PROVIDING ALL SUPPORTS FOR PIPING AND DUCTWORK.
5. CONDENSATE DRAIN PIPING SHALL BE FULL SIZE PER EQUIPMENT CONNECTION WITH PVC ROUTED TO INDIRECT CONNECTION WITHOUT CREATING AN OBSTRUCTION. ALL SUPPORTS FOR THE CONDENSATE DRAIN PIPING IS BY THE MECHANICAL / HVAC CONTRACTOR.
6. THE MECHANICAL SYSTEMS SHALL HAVE TESTING AND BALANCING PERFORMED BY THE CONTRACTOR RESPONSIBLE FOR THE INSTALLATION OF THE SYSTEM(S). THE CONTRACTOR SHALL PREPARE AND SUBMIT A COMPLETE REPORT IDENTIFYING ALL MAJOR PIECES OF HVAC EQUIPMENT AND AIR DISTRIBUTION DEVICES WITH PERFORMANCES AND FINAL AIR BALANCE OF EACH. SUBMITTAL SHALL BE PRESENTED TO THE ENGINEER AND BUILDING OWNER OR TO THE OWNER'S REPRESENTATIVE FOR REVIEW AND APPROVAL. BOTH PROCEDURES ARE TO BE DONE AT THE SAME TIME AND TO BE COORDINATED TO ATTAIN DESIGN RESULTS.
7. PROVIDE MINIMUM 10 FEET SEPARATION BETWEEN OUTSIDE AIR INTAKES AND EXHAUST VENTS, PLUMBING VENTS, ETC.
8. THERMOSTATS SHALL BE MOUNTED 48" ABOVE FINISHED FLOOR UNLESS INDICATED OTHERWISE.
9. PROVIDE ACCESS DOOR (12"x12" MIN) AS REQUIRED FOR DAMPER AND CONTROL ACCESS IN WALLS AND CEILINGS.

DUCT SEALING:

1. PRESSURE SENSITIVE TAPE USED AS THE PRIMARY SEALANT IS CERTIFIED AND SHALL COMPLY WITH UL-181A OR UL-181B.
2. PROVIDE LONGITUDINAL SEAMS ON RIGID DUCT AND TRANSVERSE SEAMS ON ALL DUCTS.
3. PROVIDE MECHANICAL FASTENERS AND SEALANTS SHALL BE USED TO CONNECT DUCTS AND AIR DISTRIBUTION DEVICES.

INSULATION:

1. DUCTWORK SHALL BE INSULATED IN ACCORDANCE WITH THE FOLLOWING:
   A. NO INSULATION FOR EXHAUST OR EXPOSED SUPPLY AND RETURN DUCTWORK.
   B. ALL OTHER DUCTWORK PROVIDE 2" FIBERGLASS BLANKET TYPE INSULATION WITH FOIL VAPOR BARRIER COVER IN ACCORDANCE WITH SMACNA HVAC DUCT CONSTRUCTION STANDARDS.

PENETRATIONS:

1. SLEEVES SHALL BE INSTALLED WHERE DUCTS, LOUVERS, OR PIPING PENETRATE NON-RATED EXTERIOR WALLS, PARTITIONS, FLOORS, OR ROOF. PACK AROUND SLEEVES AND SEAL WEATHER TIGHT. INSTALL FLASHING AS REQUIRED. SLEEVES SHALL BE MINIMUM 16 GAUGE GALVANIZED STEEL AND SHALL BE FIRMLY SET IN BUILDING STRUCTURE.

SUBMITTALS AND ACCEPTANCE:

1. UNLESS OTHERWISE INSTRUCTED, THE CONTRACTOR SHALL SUBMIT THREE (3) SETS OF HVAC SHOP DRAWINGS TO THE PROJECT MANAGER WHO SHALL THEN RELAY THEM TO THE DESIGN ENGINEER FOR REVIEW AND APPROVAL PRIOR TO THE PURCHASE OF EQUIPMENT.
2. OPERATION AND MAINTENANCE MANUALS FOR ALL MECHANICAL EQUIPMENT SHALL BE COMPILED INTO A THREE RING BINDER AND TURNED OVER TO BUILDING OWNER UPON PROJECT COMPLETION.

EXHAUST FAN SCHEDULE (TYPICAL)

DESIGNATION EF	CFM	EXHAUST S.P.	RPM	WATTS / HP	TYPE	CONTROL	VOLTAGE	SONES	WEIGHT	MANUF. AND MODEL NO.	NOTES
1	100	.375	950	17	CEILING	WALL SWITCH	115/1/60	.8	25	GREENHECK SP-A110	1-6
60	100	.375	950	17	CEILING	WALL SWITCH	115/1/60	.8	25	GREENHECK SP-A110	1-6
EH-18	100	.375	950	17	CEILING	WALL SWITCH	115/1/60	.8	25	GREENHECK SP-A110	1-6
EH-20	100	.375	950	17	CEILING	WALL SWITCH	115/1/60	.8	25	GREENHECK SP-A110	1-6

ACCESSORIES AND FEATURES:
1. PROVIDE UNIT MOUNTED SOLID STATE SPEED CONTROL.
2. PROVIDE ROOF CAP OR WALL CAP WITH BIRD SCREEN - REFER TO DRAWING.
3. PROVIDE FAN/LIGHT COMBO WITH PRISMATIC LENS AND 10W. LED BULB
4. PROVIDE SMART EXHAUST BATHROOM FAN SWITCH WITH VENTILATION CONTROL AND DELAY TIMER. THE FINAL RUN TIME OF THE EXHAUST SHALL BE DETERMINED DURING THE BLOWER TEST AT COMPLETION OF THE PROJECT.
5. IN UNITS WHERE ONE RESIDENT OCCUPIES TWO FLOORS, ONLY PROVIDE THE SMART EXHAUST BATHROOM FAN CONTROLLER ON THE UPSTAIRS COMMON BATHROOM.
6. CONTRACTOR SHALL REFER TO PLANS FOR QUANTITY OF FANS.

AIR DISTRIBUTION SCHEDULE

SYM.	SERVICE	DESCRIPTION	MATERIAL	MFG & MOD	ACCESSORIES & FEATURES
CD-1	LOUVERED SUPPLY REGISTER	* FOUR-WAY DEFLECTION * FACE AIR VOLUME CONTROL * 12x12 FACE SIZE	STEEL CONSTRUCTION WITH WHITE BAKED ENAMEL FINISH	HART & COOLEY A814	* OPPOSED BLADE DAMPER * NC < 35 * FACE VELOCITY TO BE BETWEEN 500-700 FPM
CD-2	LOUVERED SUPPLY REGISTER	* THREE-WAY DEFLECTION * FACE AIR VOLUME CONTROL * 12x12 FACE SIZE	STEEL CONSTRUCTION WITH WHITE BAKED ENAMEL FINISH	HART & COOLEY A813	* OPPOSED BLADE DAMPER * NC < 35 * FACE VELOCITY TO BE BETWEEN 500-700 FPM
CD-3	LOUVERED SUPPLY REGISTER	* FOUR-WAY DEFLECTION * FACE AIR VOLUME CONTROL	STEEL CONSTRUCTION WITH WHITE BAKED ENAMEL FINISH	HART & COOLEY FPD3	* OPPOSED BLADE DAMPER * NC < 35 * FACE VELOCITY TO BE BETWEEN 500-700 FPM
	LOUVERED TRANSFER GRILLE	* FREE PATTERN	STEEL CONSTRUCTION WITH WHITE BAKED ENAMEL	HART & COOLEY 672	* NC < 35 * FACE VELOCITY TO BE 500 FPM MAXIMUM

* SEE ARCHITECTURAL REFLECTED CEILING PLANS FOR MOUNTING TYPE REQUIRED. PROVIDE PLASTER FRAME FOR ALL AIR DEVICES LOCATED IN GYP. BOARD CEILINGS.
* VERIFY THE MOUNTING OF ALL CEILING AIR DISTRIBUTION DEVICES COMPLY WITH BUILDING STRUCTURE PRIOR TO PURCHASE.

ELECTRIC SPLIT SYSTEM HEAT PUMP SEQUENCE (AHU-1/HP-1 - AHU12/HP-12)

OCCUPIED MODE:
OCCUPANCY MODE OF THE HEAT PUMP WILL BE CONTROLLED BY A SEVEN DAY DIGITAL, NON-PROGRAMMABLE THERMOSTAT. DURING THE OCCUPIED MODE THE SUPPLY FAN SHALL OPERATE CONTINUOUSLY.

UNOCCUPIED MODE:
DURING THE UNOCCUPIED MODE THE SUPPLY FAN SHALL CYCLE WITH HEATING OR COOLING TO MAINTAIN UNOCCUPIED ZONE SET POINTS.

HEAT PUMP CONTROL:
WHEN THE ZONE TEMPERATURE FALLS BELOW THE ZONE TEMPERATURE SET POINT THE REVERSING VALVE (S) WILL BE INDEXED TO PROVIDE HEATING WHEN THE COMPRESSOR IS RUNNING. WHEN THE ZONE TEMPERATURE RISES ABOVE THE ZONE TEMPERATURE SET POINT THE REVERSING VALVE (S) WILL BE INDEXED TO PROVIDE COOLING MODE WHEN THE OUTDOOR AIR TEMPERATURE IS BELOW THE LOCKOUT SET POINT. THE COMPRESSOR WILL BE LOCKOUT FROM HEATING MODE WHEN THE OUTDOOR AIR TEMPERATURE IS ABOVE THE LOCKOUT SET POINT.

REHEAT COIL:
AUXILIARY HEATING SHALL BE STAGED WITH THE HEAT PUMP IN ORDER TO MAINTAIN ZONE TEMPERATURE SET POINTS. WHENEVER THE HEAT PUMP IS LOCKED OUT DUE TO LOW OUTSIDE AIR TEMPERATURES; THE AUXILIARY HEAT WILL BECOME THE FIRST STAGE OF HEATING.

DRYER BOOSTER FAN SCHEDULE (TYPICAL)

DESIGNATION DBF	CFM	RPM	WATTS	TYPE	VOLTAGE	WEIGHT (LBS)	MANUF. AND MODEL NO.
DBF-1	145	0.4	80	DIRECT	115/1/60	9	FANTECH DBF110

* PROVIDE AIR PRESSURE SWITCH AND MOUNTING BRACKETS.
* REFER TO PLANS FOR QUANTITIES AND LOCATIONS REQUIRED.

ELECTRIC HEATER SCHEDULE

DESIGNATION EH	KW	CONTROL	AMPS	VOLTAGE	WEIGHT (LBS)	MANUF. AND MODEL NO.
45	3	TSTAT	12.5	240/1/60	41	MARKEL H342AT
48	3	TSTAT	12.5	240/1/60	41	MARKEL H342AT
EH-1	3	TSTAT	12.5	240/1/60	41	MARKEL H342AT
EH-2	3	TSTAT	12.5	240/1/60	41	MARKEL H342AT
EH-3	3	TSTAT	12.5	240/1/60	41	MARKEL H342AT
EH-4	3	TSTAT	12.5	240/1/60	41	MARKEL H342AT
EH-5	3	TSTAT	12.5	240/1/60	41	MARKEL H342AT
EH-6	3	TSTAT	12.5	240/1/60	41	MARKEL H342AT

ACCESSORIES AND FEATURES:
* UNITS MUST BE UL-LISTED.
* PROVIDE INTERNAL DISCONNECT SWITCH.
* PROVIDE MANUFACTURER'S HANGING KITS AND BRACKETS.
* ALTERNATE MANUFACTURERS: INDEECO

MHM
McCarty Holsaple McCarty, Inc.
550 W. Main St., Suite 300
Knoxville, TN 37902
t 865.544.2000
www.mhminc.com

Consultants:

CIVIL ENGINEER:
HUDDLESTON-STEELE ENGINEERING INC.
2112 N.W. BROAD ST.
MURFREESBORO, TN 37129
615.893.4084

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RAGAN SMITH
100 E. VINE ST., STE 200
MURFREESBORO, TN 37130
615.546.6050

STRUCTURAL ENGINEER:
HAINES STRUCTURAL GROUP
800 S. GAY ST., STE 1750
KNOXVILLE TN, 37929
865.329.9920

MECHANICAL & PLUMBING ENGINEER:
FACILITY SYSTEMS CONSULTANTS
713 S. CENTRAL ST., STE 101
KNOXVILLE TN, 37902
865.246.0164

ELECTRICAL ENGINEER:
FACILITY SYSTEMS CONSULTANTS
713 S. CENTRAL ST., STE 101
KNOXVILLE TN, 37902
865.246.0164

Project Information:

21026

MHA Parkside Housing
550 W. MAIN ST. KNOXVILLE, TN 37919

JASON W. HOLLIWAY — REGISTERED ENGINEER — AGRICULTURE — COMMERCE — No. 109448 — STATE OF TENNESSEE — 2022

Consultant:
FACILITY SYSTEMS CONSULTANTS, LLC
713 South Central Street, Suite 101
Knoxville, Tennessee 37902
Phone: (865) 246-0164
Fax: (865) 246-1084

#	ISSUE	DATE
1	REVISION 01 - CITY COMMENTS RESPONSE	8/23/2022

Issue Date:	04.07.2022
PIC	M. BUTLER
PM	M. BUTLER
PA	G. TAYLOR
Drawn By:	B. DAVIS
Checked By:	L.T.HEADLA/J.W.HOLIWAY

Sheet Description:

M-001

MECHANICAL NOTES, LEGEND, SCHEDULES

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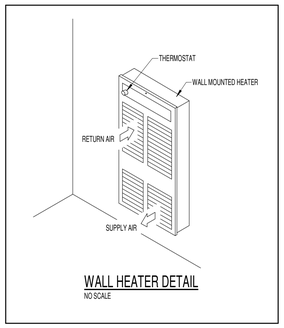

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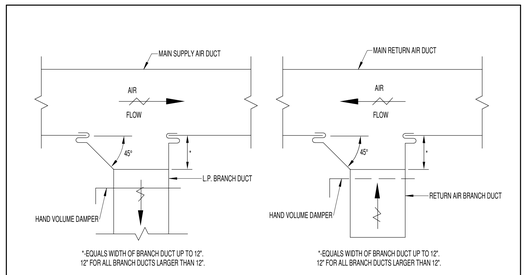

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TYPICAL RETURN AIR BRANCH DUCT TAKE-OFF
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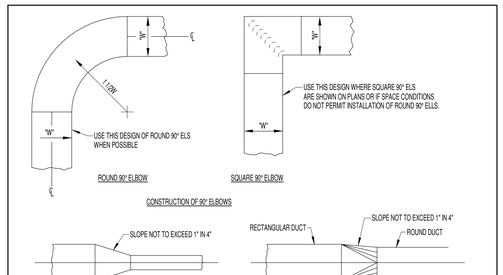

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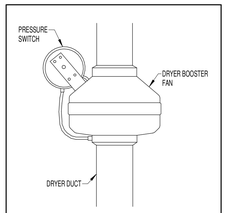

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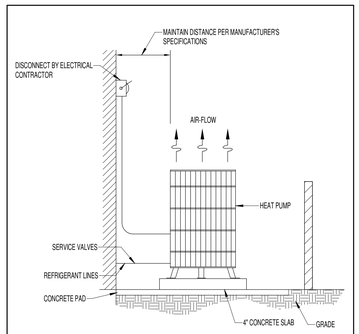

OUTDOOR AIR COOLED HEAT PUMP UNIT DETAIL
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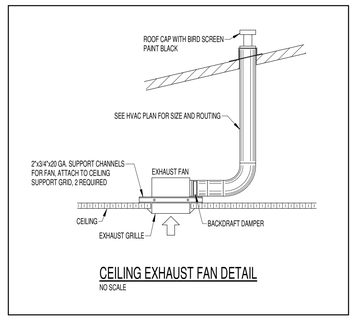

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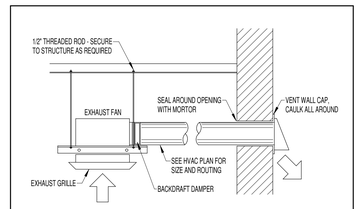

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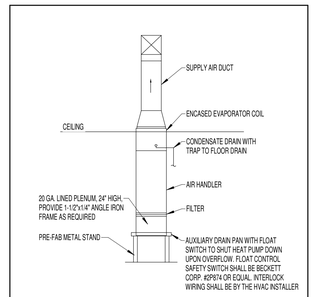

VERTICAL HEAT PUMP INSTALLATION DETAIL
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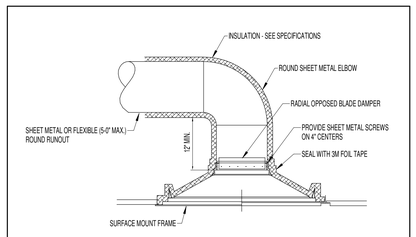

TYPICAL HORIZONTAL CEILING DIFFUSER DETAIL
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550 W. Main St., Suite 300
Knoxville, TN 37902
t 865.544.2000
www.mhminc.com

Consultants:

CIVIL ENGINEER:
HUDDLESTON-STEELE ENGINEERING INC.
2112 N.W. BROAD ST.
MURFREESBORO, TN 37129
615.893.4084

LANDSCAPE ARCHITECT:
RAGAN SMITH
100 E. VINE ST., STE 200
MURFREESBORO, TN 37130
615.546.6050

STRUCTURAL ENGINEER:
HAINES STRUCTURAL GROUP
800 S. GAY ST., STE 1750
KNOXVILLE TN, 37929
865.329.9920

MECHANICAL & PLUMBING ENGINEER:
FACILITY SYSTEMS CONSULTANTS
713 S. CENTRAL ST., STE 101
KNOXVILLE TN, 37902
865.246.0164

ELECTRICAL ENGINEER:
FACILITY SYSTEMS CONSULTANTS
713 S. CENTRAL ST., STE 101
KNOXVILLE TN, 37902
865.246.0164

Project Information:

21026

MHA Parkside Housing
550 W. MAIN ST. KNOXVILLE, TN 37919

JASON W. HOLIWAY — REGISTERED ENGINEER — AGRICULTURE — 04/07/2022 — NO. 109446 — STATE OF TENNESSEE

Consultant:

FACILITY SYSTEMS CONSULTANTS, LLC
713 South Central Street, Suite 101
Knoxville, Tennessee 37902
Phone: (865) 246-0164
Fax: (865) 246-1084

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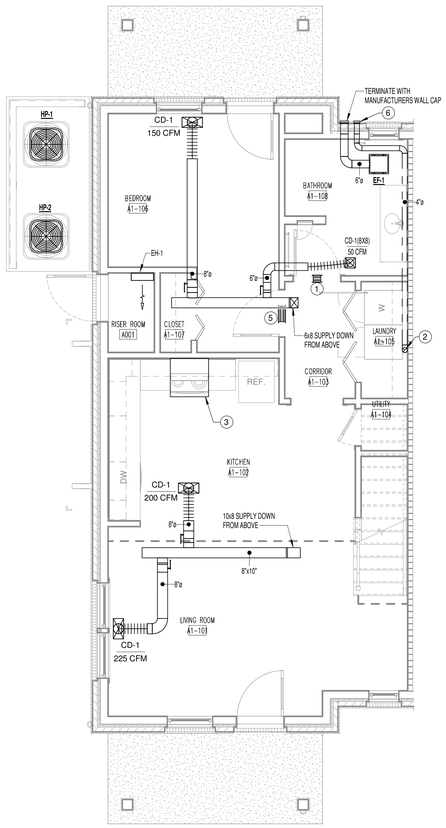
Issue Date:	04.07.2022
PIC	M. BUTLER
PM	M. BUTLER
PA	G. TAYLOR
Drawn By:	B. DAVIS
Checked By:	L.T.HEADLA/J.W.HOLIWAY

Sheet Description:

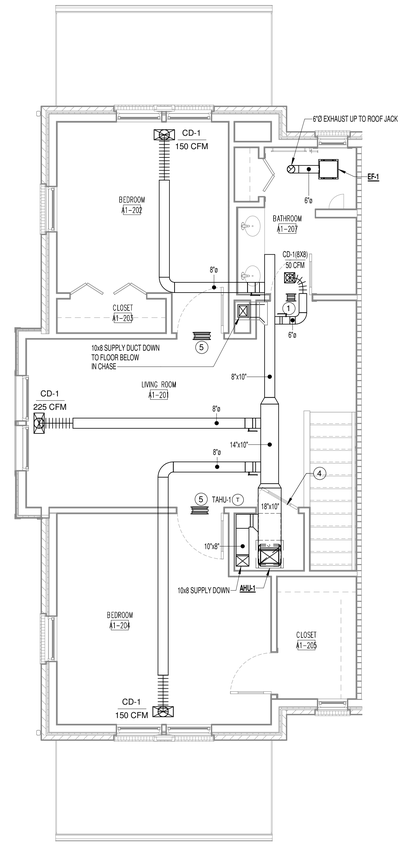
M-002

MECHANICAL DETAILS

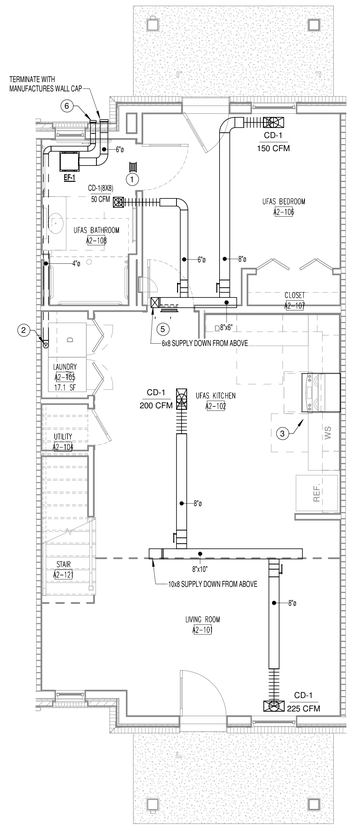
FACILITY SYSTEMS CONSULTANTS, LLC
713 South Central Street, Suite 101
Knoxville, Tennessee 37902
Phone: (865) 246-0164
Fax: (865) 246-1084



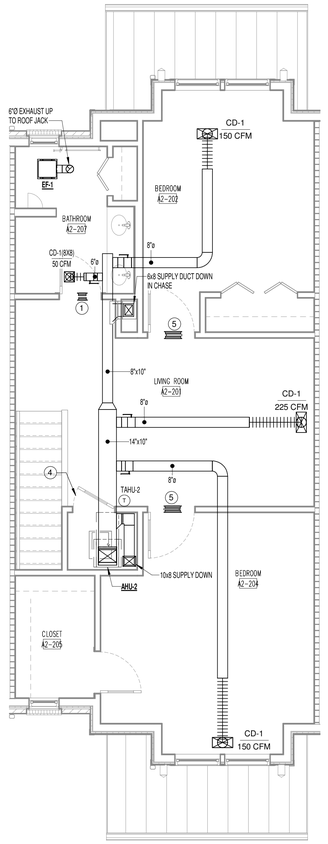
1 BUILDING A1 - GROUND FLOOR MECHANICAL PLAN
1/4" = 1'-0"



2 BUILDING A1 - SECOND FLOOR MECHANICAL PLAN
1/4" = 1'-0"



3 BUILDING A2 - GROUND FLOOR MECHANICAL PLAN
1/4" = 1'-0"



4 BUILDING A2 - SECOND FLOOR MECHANICAL PLAN
1/4" = 1'-0"

KEY NOTES	
1	(2)8x6 TRANSFER GRILLE WITH DUCT CENTERED ABOVE DOOR
2	PROVIDE DRYER BOOSTER FAN (DB-1) IN ACCESSIBLE LOCATION AT DRYER. ROUTE 4" DRYER VENT AS SHOWN.
3	RECIRCULATING RANGE EXHAUST HOOD WITH CHARCOAL FILTER. PROVIDE AND INSTALL BY G.C.
4	FULLY LOUVERED DOOR FOR RETURN. AIR SPECIFIED BY ARCHITECT.
5	(2)12x6 TRANSFER GRILLE WITH DUCT CENTERED ABOVE DOOR.
6	TERMINATE WITH DRYER WALL CAP WITH INTEGRAL BACKDRAFT DAMPER. PAINT TO MATCH EXTERIOR FINISH.

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McCarty Holsaple McCarty, Inc.
550 W. Main St., Suite 300
Knoxville, TN 37902
t 865.544.2000
www.mhminc.com

Consultants:

CIVIL ENGINEER:

HUDDLESTON-STEELE ENGINEERING INC.
2112 N.W. BROAD ST.
MURFREESBORO, TN 37129
615.893.4084

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RAGAN SMITH
100 E. VINE ST., STE 200
MURFREESBORO, TN 37130
615.546.6050

STRUCTURAL ENGINEER:

HAINES STRUCTURAL GROUP
800 S. GAY ST., STE 1750
KNOXVILLE TN, 37929
865.329.9920

MECHANICAL & PLUMBING ENGINEER:

FACILITY SYSTEMS CONSULTANTS
713 S. CENTRAL ST., STE 101
KNOXVILLE TN, 37902
865.246.0164

ELECTRICAL ENGINEER:

FACILITY SYSTEMS CONSULTANTS
713 S. CENTRAL ST., STE 101
KNOXVILLE TN, 37902
865.246.0164

Project Information:

21026

MHA Parkside Housing

550 W. MAIN ST. KNOXVILLE, TN 37919

JASON W. HOLIWAY — LICENSED LANDSCAPE ARCHITECT — DEPARTMENT OF AGRICULTURE — 04/04/2022 — STATE OF TENNESSEE — REG. NO. 109445

Consultant:

FACILITY SYSTEMS CONSULTANTS, LLC
713 South Central Street, Suite 101
Knoxville, Tennessee 37902
Phone: (865) 246-0164
Fax: (865) 244-1084

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PA	G. TAYLOR
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Checked By:	L.T.HEADLA/J.W.HOLIWAY

Sheet Description:

M-110

BUILDING A - MECHANICAL PLANS

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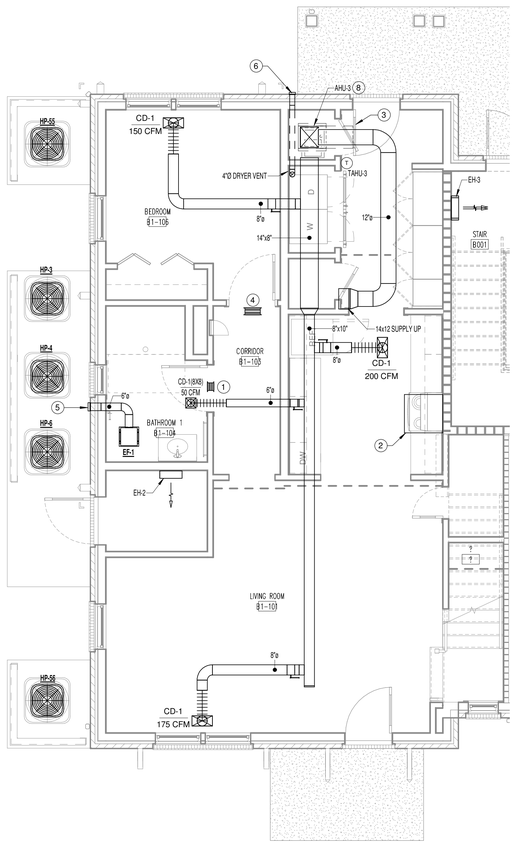
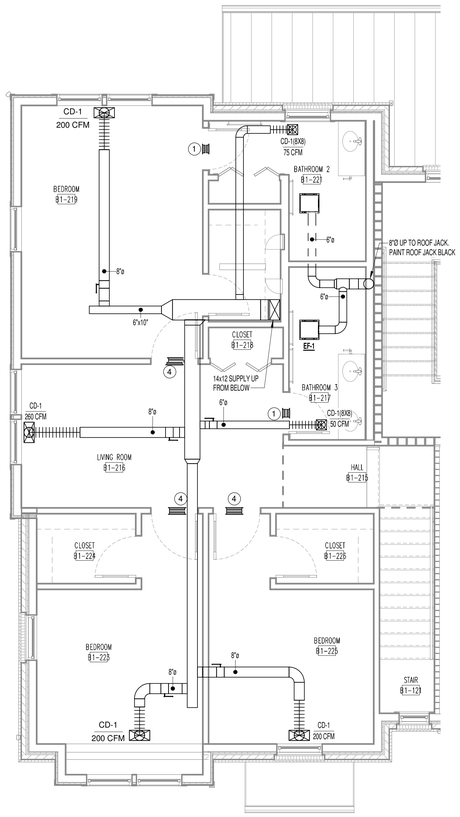
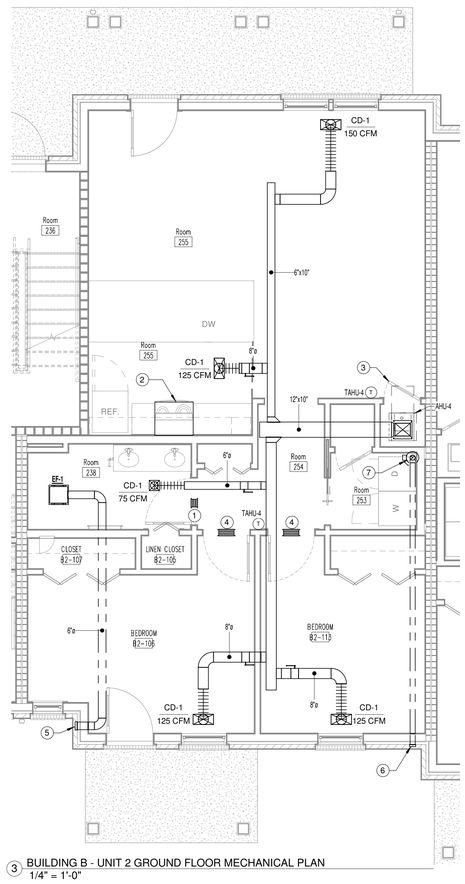
713 South Central Street, Suite 101
Knoxville, Tennessee 37902
Phone: (865) 246-0164
Fax: (865) 244-1084



1 BUILDING B - UNIT 1 GROUND FLOOR MECHANICAL PLAN
1/4" = 1'-0"



2 BUILDING B - UNIT 1 SECOND FLOOR MECHANICAL PLAN
1/4" = 1'-0"



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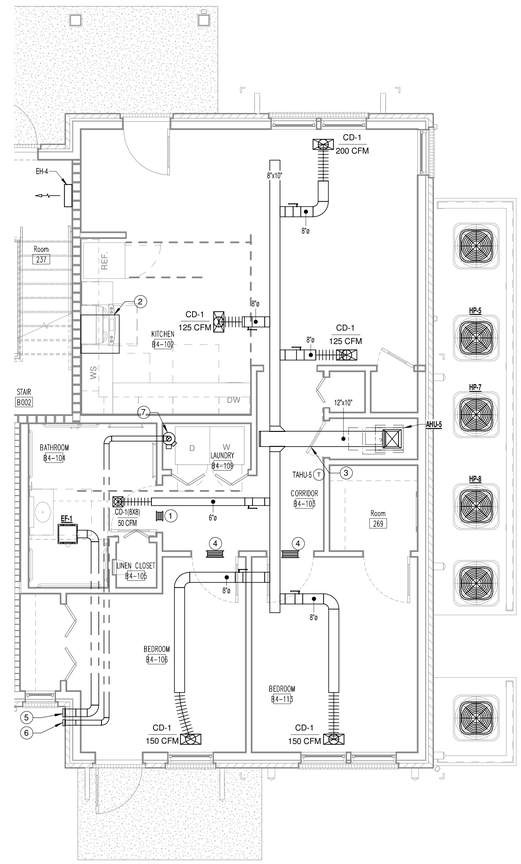

4 BUILDING B - UNIT 4 GROUND FLOOR MECHANICAL PLAN
1/4" = 1'-0"

GENERAL NOTES:
1. COORDINATE DUCTWORK ROUTING AND INSTALLATION WITH STRUCTURAL AND G.C.

KEY NOTES

1. (2)8x6 TRANSFER GRILLE WITH DUCT CENTERED ABOVE DOOR
2. RECIRCULATING RANGE EXHAUST HOOD WITH CHARCOAL FILTER. PROVIDE AND INSTALL BY G.C.
3. FULLY LOUVERED DOOR FOR RETURN. AIR SPECIFIED BY ARCHITECT.
4. (2)12x6 TRANSFER GRILLE WITH DUCT CENTERED ABOVE DOOR.
5. TERMINATE WITH MANUFACTURES WALL CAP. PAINT TO MATCH EXTERIOR FINISH.
6. TERMINATE WITH DRYER WALL CAP WITH INTEGRAL BACKDRAFT DAMPER. PAINT TO MATCH EXTERIOR FINISH.
7. PROVIDE DRYER BOOSTER FAN (DBF-1) IN ACCESSIBLE LOCATION AT DRYER.
8. PROVIDE 16X14 SUPPLY PLENUM OUT OF THE TOP OF AIR HANDLER. TAP 12" ROUND DUCT OUT OF PLENUM.

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McCarty Holsaple McCarty, Inc.
550 W. Main St., Suite 300
Knoxville, TN 37902
t.865.544.2000
www.mhminc.com

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713 S. CENTRAL ST., STE 101
KNOXVILLE TN, 37902
865.246.0164

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713 S. CENTRAL ST., STE 101
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MHA Parkside Housing

550 W. MAIN ST. KNOXVILLE, TN 37919

JASON W. HOLIWAY — REGISTERED LANDSCAPE ARCHITECT — AGRICULTURE — 04/04/2022 — No. 1004 — STATE OF TENNESSEE

Consultant:

FACILITY SYSTEMS CONSULTANTS, LLC
713 South Central Street, Suite 101
Knoxville, Tennessee 37902
Phone: (865) 246-0164
Fax: (865) 246-1084

#	ISSUE	DATE

Issue Date:	04.07.2022
PIC	M. BUTLER
PM	M. BUTLER
PA	G. TAYLOR
Drawn By:	B. DAVIS
Checked By:	L.T.HEADLA/J.W.HOLIWAY

Sheet Description:

M-120

BUILDING B - MECHANICAL PLANS

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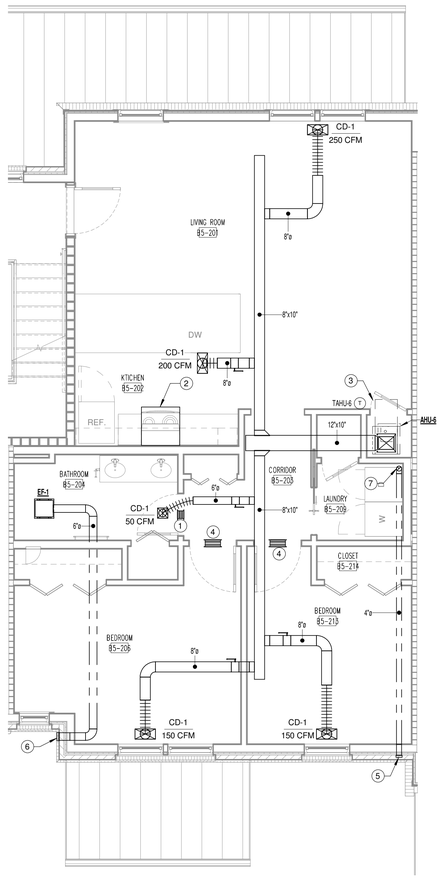
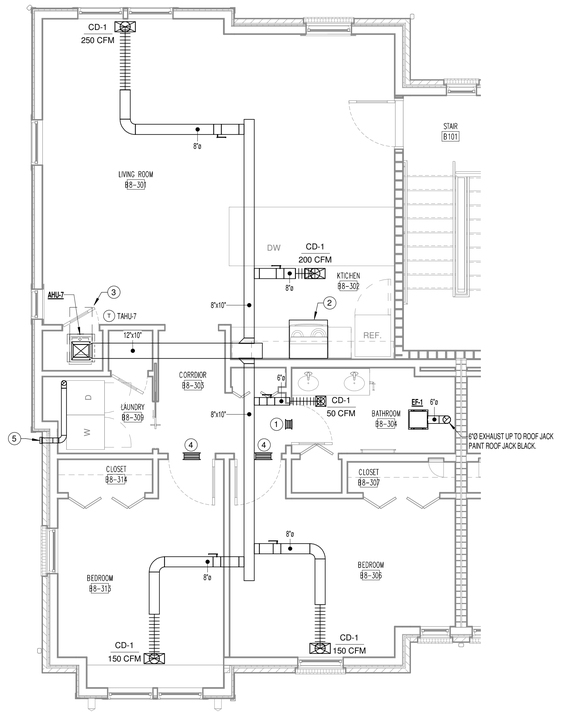
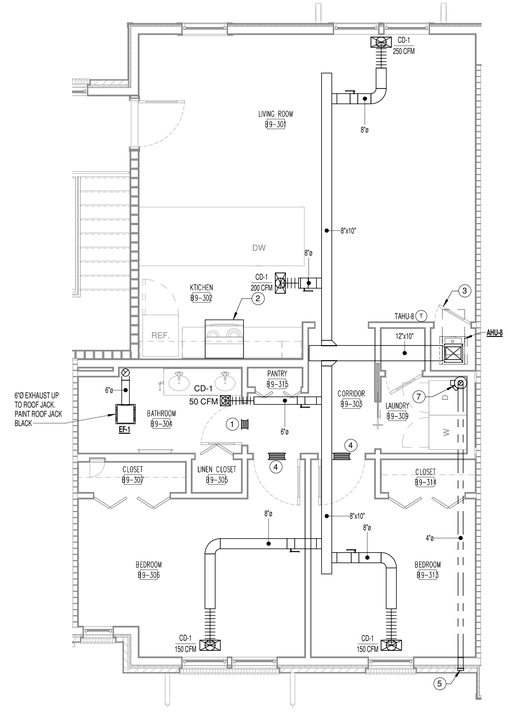


1 BUILDING B - UNIT 5 SECOND LEVEL MECHANICAL PLAN
1/4" = 1'-0"



2 BUILDING B -UNIT 8 THIRD LEVEL MECHANICAL PLAN
1/4" = 1'-0"



3 BUILDING B - UNIT 9 THIRD LEVEL MECHANICAL PLAN
1/4" = 1'-0"

GENERAL NOTES:
1. COORDINATE DUCTWORK ROUTING AND INSTALLATION WITH STRUCTURAL AND G.C.

KEY NOTES	
1	(2)8x6 TRANSFER GRILLE WITH DUCT CENTERED ABOVE DOOR
2	RECIRCULATING RANGE EXHAUST HOOD WITH CHARCOAL FILTER. PROVIDED AND INSTALL BY G.C.
3	FULLY LOUVERED DOOR FOR RETURN. AIR SPECIFIED BY ARCHITECT.
4	(2)12x6 TRANSFER GRILLE WITH DUCT CENTERED ABOVE DOOR.
5	TERMINATE WITH DRYER WALL CAP WITH INTEGRAL BACK DRAFT DAMPER. PAINT TO MATCH EXTERIOR FINISH.
6	TERMINATE WITH MANUFACTURES WALL CAP. PAINT TO MATCH EXTERIOR FINISH.
7	PROVIDE DRYER BOOSTER FAN (DBF-1) IN ACCESSIBLE LOCATION AT DRYER. ROUTE 4" DRYER VENT AS SHOWN.

MHM

McCarty Holsaple McCarty, Inc.
550 W. Main St., Suite 300
Knoxville, TN 37902
t 865.544.2000
www.mhminc.com

Consultants:

CIVIL ENGINEER:

HUDDLESTON-STEELE ENGINEERING INC.
2112 N.W. BROAD ST.
MURFREESBORO, TN 37129
615.893.4084

LANDSCAPE ARCHITECT:

RAGAN SMITH
100 E. VINE ST., STE 200
MURFREESBORO, TN 37130
615.546.6050

STRUCTURAL ENGINEER:

HAINES STRUCTURAL GROUP
800 S. GAY ST., STE 1750
KNOXVILLE TN, 37929
865.329.9920

MECHANICAL & PLUMBING ENGINEER:

FACILITY SYSTEMS CONSULTANTS
713 S. CENTRAL ST., STE 101
KNOXVILLE TN, 37902
865.246.0164

ELECTRICAL ENGINEER:

FACILITY SYSTEMS CONSULTANTS
713 S. CENTRAL ST., STE 101
KNOXVILLE TN, 37902
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M-121

BUILDING B -
MECHANICAL PLANS

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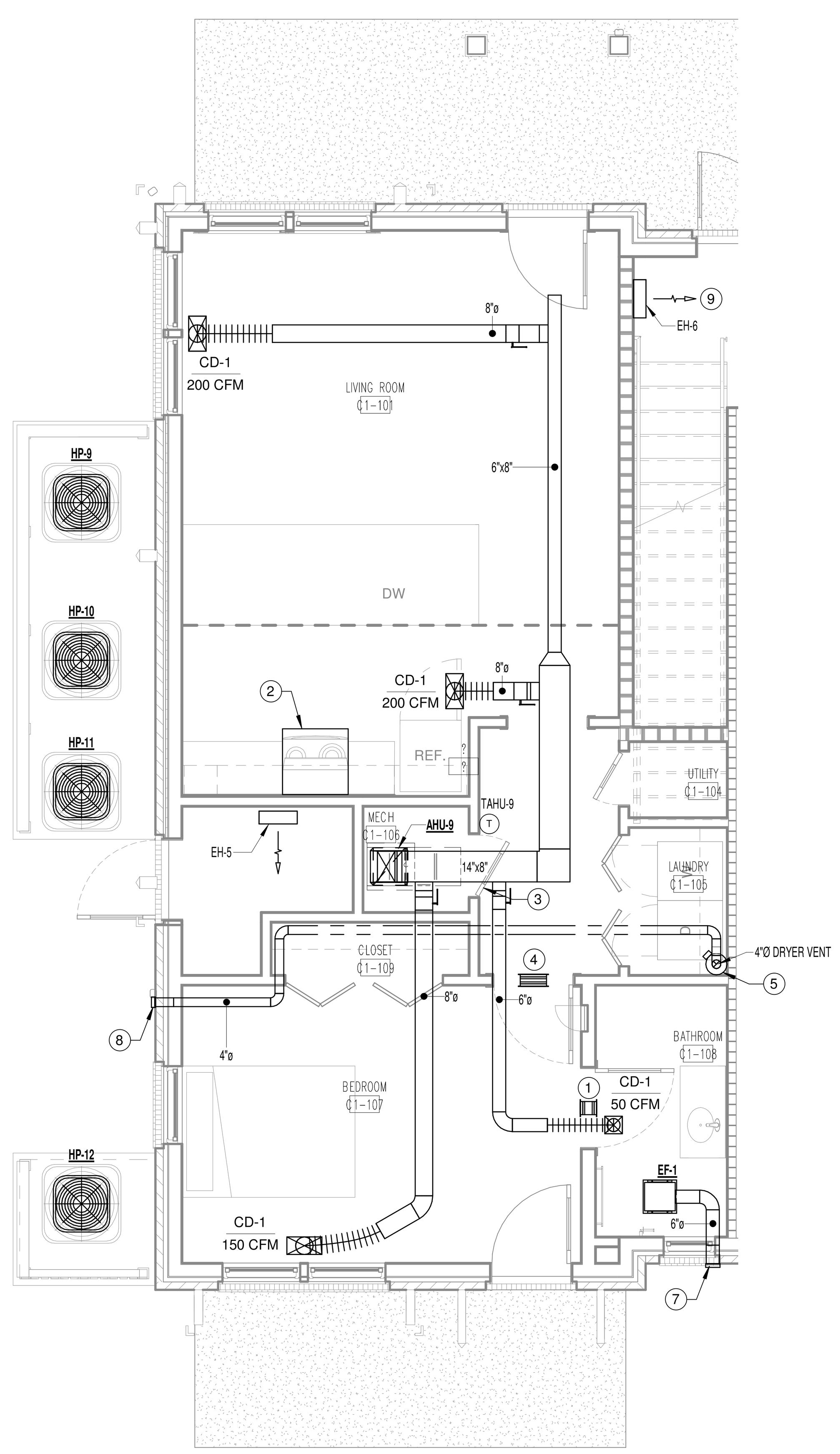
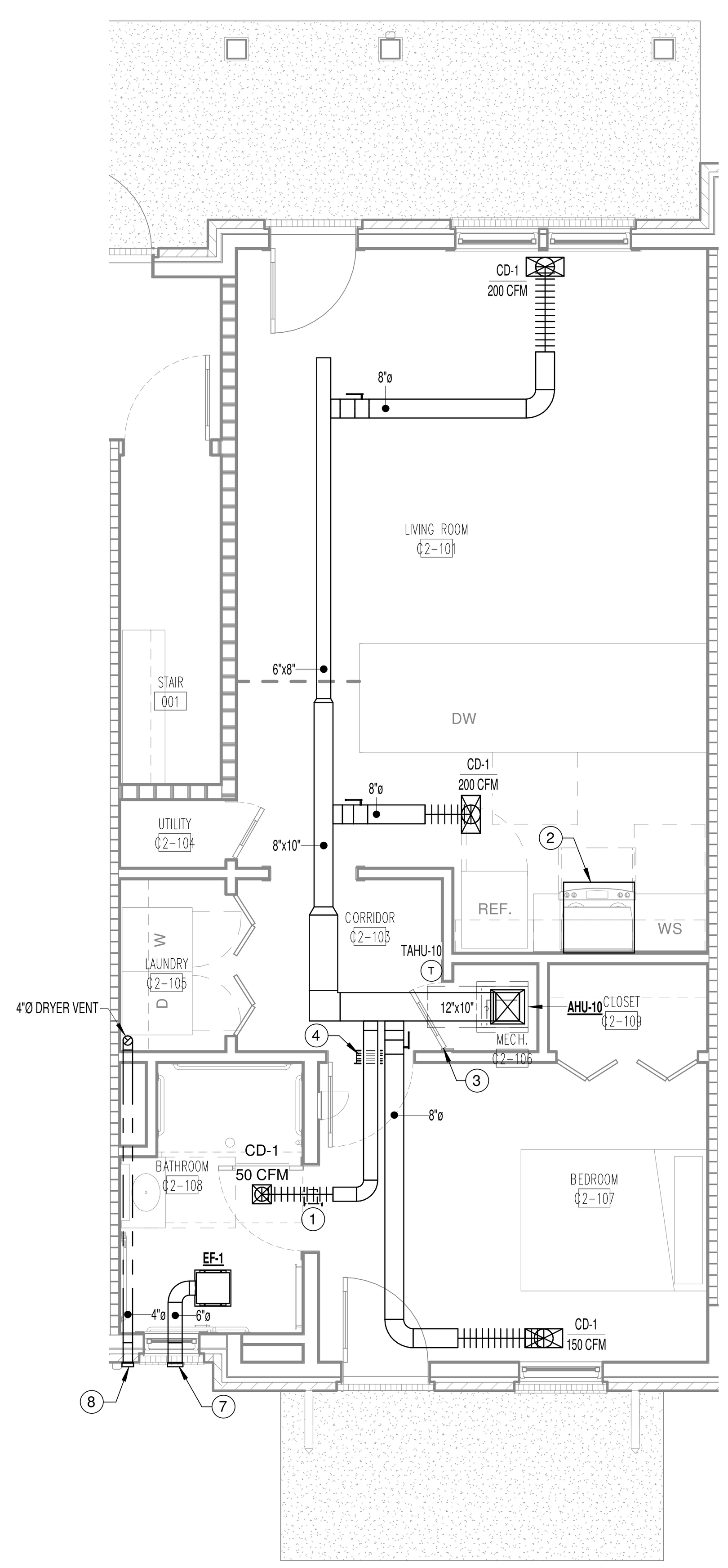
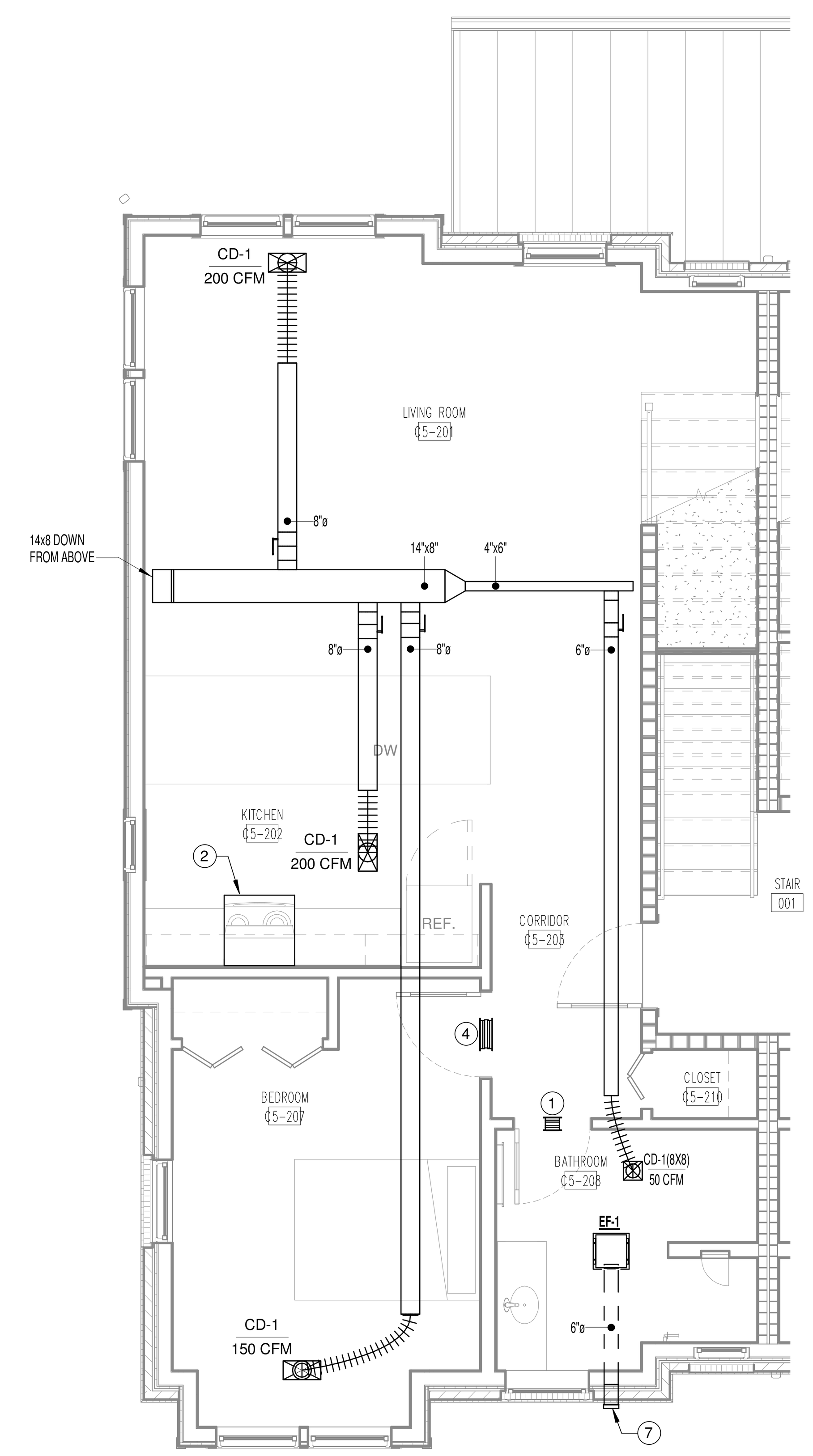


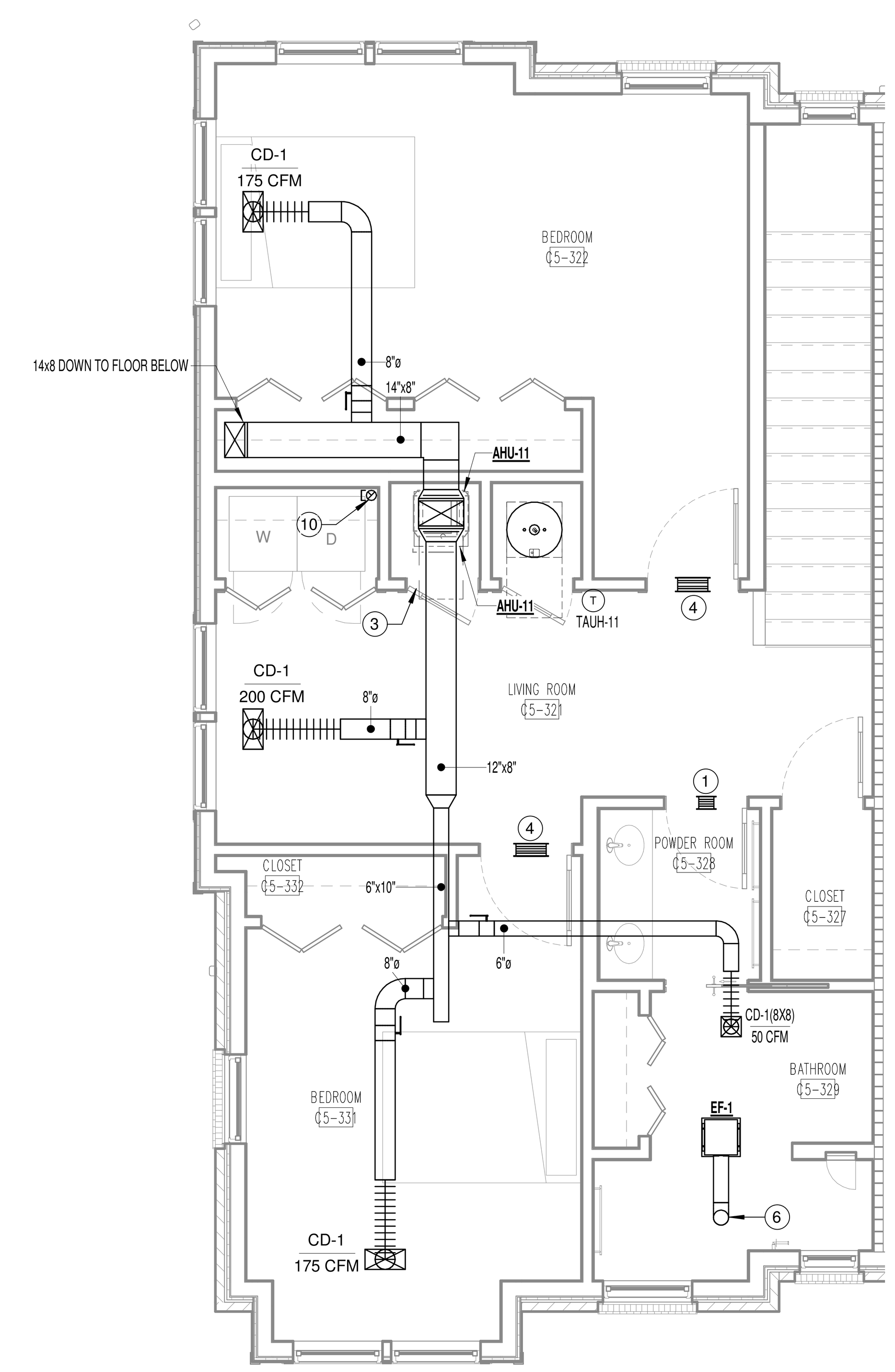
1 BUILDING C - UNIT 1 GROUND FLOOR MECHANICAL PLAN
1/4" = 1'-0"
* UNIT 1 IS TYPICAL FOR UNIT 4, (GROUND FLOOR)



2 BUILDING C - UNIT 2 GROUND LEVEL MECHANICAL PLAN
1/4" = 1'-0"
* UNIT 2 IS TYPICAL FOR UNITS 3, (GROUND FLOOR)



3 BUILDING C - UNIT 5 SECOND FLOOR MECHANICAL PLAN
1/4" = 1'-0"
* UNIT 5 IS TYPICAL FOR UNITS 6,7, 8, (SECOND FLOOR)



4 BUILDING C - UNIT 5 THIRD FLOOR MECHANICAL PLAN
1/4" = 1'-0"

KEY NOTES	
1	(2)8x6 TRANSFER GRILLE WITH DUCT CENTERED ABOVE DOOR
2	RECIRCULATING RANGE EXHAUST HOOD WITH CHARCOAL FILTER. PROVIDE AND INSTALL BY G.C.
3	FULLY LOUVERED DOOR FOR RETURN. AIR SPECIFIED BY ARCHITECT.
4	(2)12x6 TRANSFER GRILLE WITH DUCT CENTERED ABOVE DOOR.
5	PROVIDE DRYER BOOSTER FAN (DBF-1) IN ACCESSIBLE LOCATION AT DRYER. ROUTE 4" DRYER VENT AS SHOWN.
6	ROUTE 6"Ø EXHAUST DUCT UP TO ROOF JACK. PAINT ROOF JACK BLACK.
7	TERMINATE WITH MANUFACTURES WALL CAP. PAINT TO MATCH EXTERIOR FINISH.
8	TERMINATE WITH DRYER WALL CAP WITH INTEGRAL BACKDRAFT DAMPER. PAINT TO MATCH EXTERIOR FINISH.
9	PROVIDE ELECTRIC HEATER IN STAIRWELL ON OPPOSIDE SIDE OF GROUND FLOOR.
10	4"Ø DRYER EXHAUSAT UP THROUGH ROOF TERMINATE WITH DRYER ROOF CAP WITH BACK DRAFT DAMPER.

FACILITY SYSTEMS CONSULTANTS, LLC
713 South Central Street, Suite 101
Knoxville, Tennessee 37902
Phone: (865) 246-0164
Fax: (865) 246-1084

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MHM

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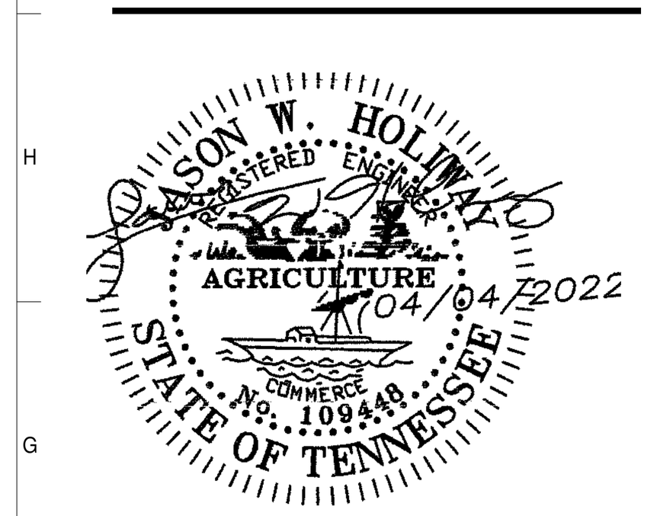

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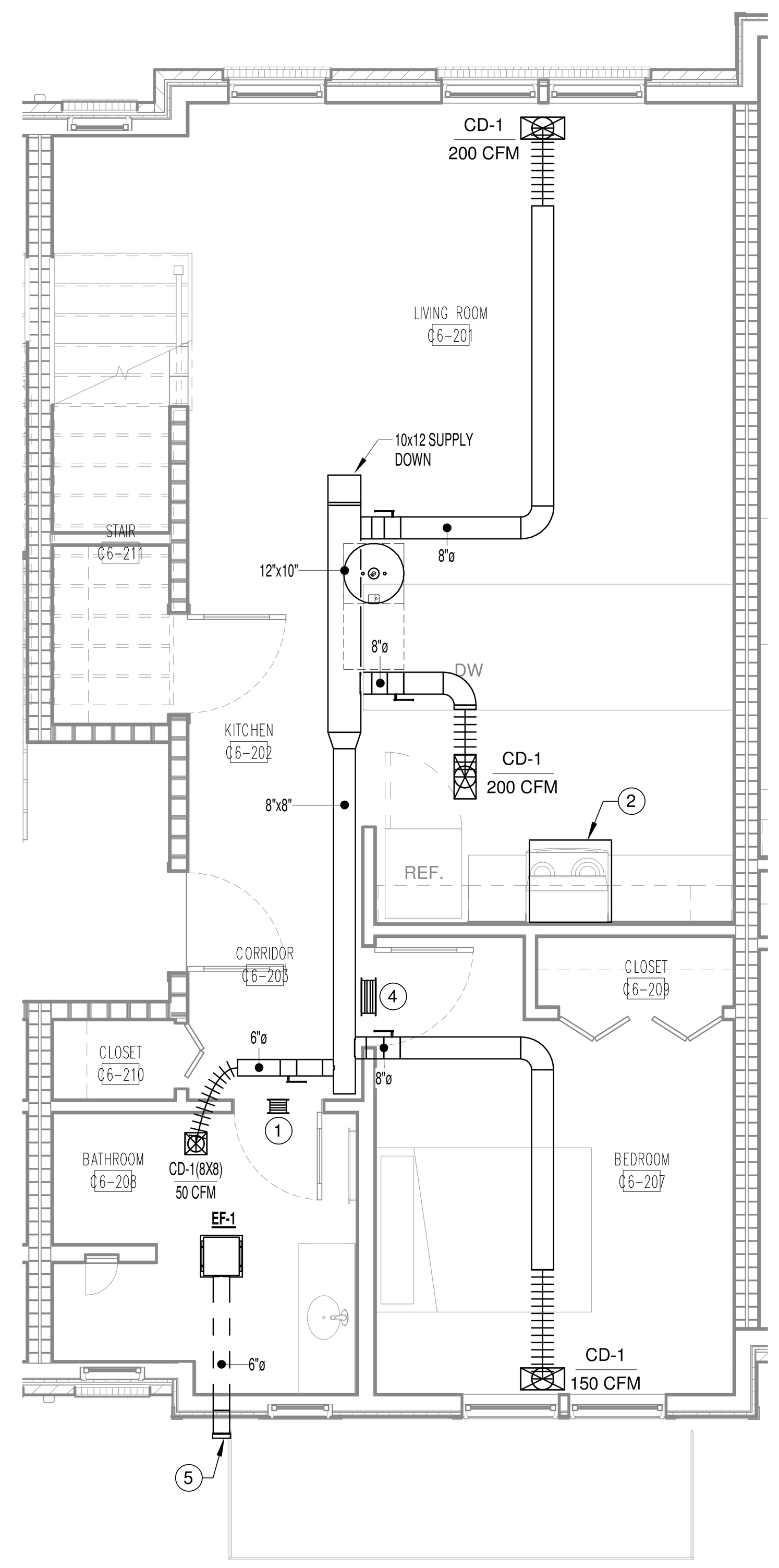
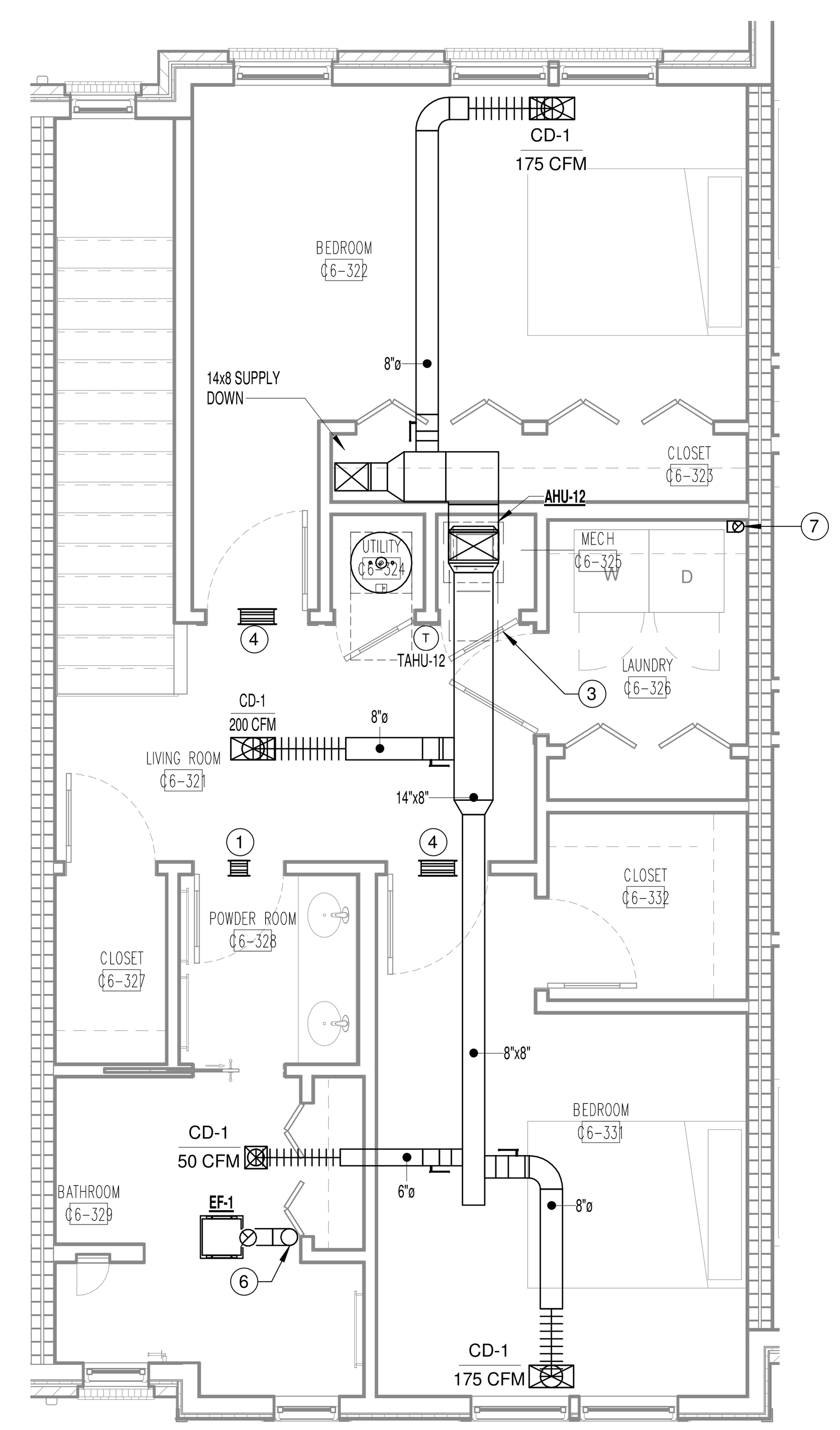
M-130

BUILDING C - MECHANICAL PLANS



1 BUILDING C - UNIT 6 SECOND FLOOR MECHANICAL PLAN
1/4" = 1'-0"
* UNIT 6 SIMILAR TO UNIT 7



2 BUILDING C - UNIT 6 THRID FLOOR MECHANICAL PLAN
1/4" = 1'-0"

KEY NOTES	
1	(2)8x6 TRANSFER GRILLE WITH DUCT CENTERED ABOVE DOOR
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3	FULLY LOUVERED DOOR FOR RETURN. AIR SPECIFIED BY ARCHITECT.
4	(2)12x6 TRANSFER GRILLE WITH DUCT CENTERED ABOVE DOOR.
5	TERMINATE WITH MANUFACTURE WALL CAP. PAINT TO MATCH EXTERIOR FINISH.
6	ROUTE 6"Ø UP TO ROOF. TERMINATE WITH MANUFACTURES ROOF CAP. PAINT ROOF CAP BLACK.
7	ROUTE 4"Ø DRYER VENT UP TO ROOF. TERMINATE WITH DRYER ROOF CAP WITH INTEGRAL BACKDRAFT DAMPER.

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t 865.544.2000
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713 S. CENTRAL ST., STE 101
KNOXVILLE TN, 37902
865.246.0164

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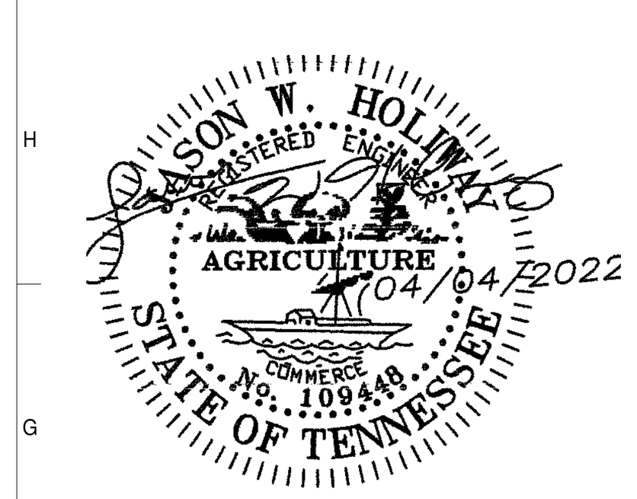

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M-131

BUILDING C - MECHANICAL PLANS

FACILITY SYSTEMS CONSULTANTS, LLC
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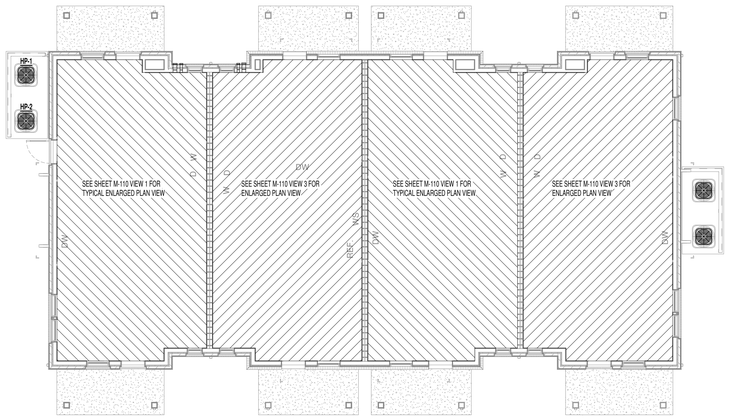
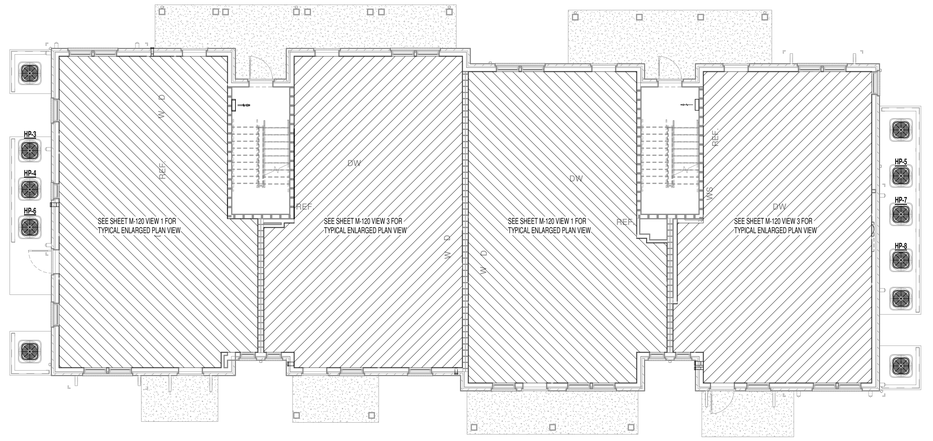
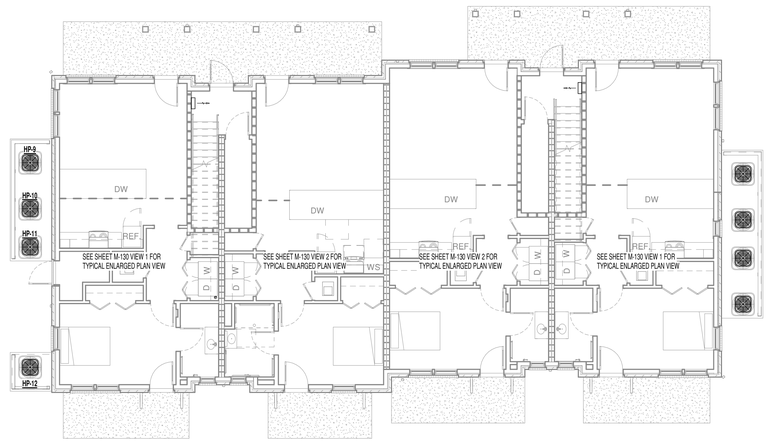
Fax: (865) 246-1084



3 BUILDING A - FIRST FLOOR MECHANICAL PLAN
1/8" = 1'-0"



2 BUILDING B - LEVEL 1
1/8" = 1'-0"



1 BULDING C OVERALL PLAN
1/8" = 1'-0"

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McCarty Holsaple McCarty, Inc.
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KNOXVILLE TN, 37902
865.246.0164

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Knoxville, Tennessee 37902
Phone: (865) 246-0164
Fax: (865) 246-1544

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M-200

OVERALL BUILDING PLANS

LEGEND

SYMBOL:	DESCRIPTION:
	METER, PROVIDE AND INSTALL IN ACCORDANCE WITH LOCAL UTILITY COMPANY REQUIREMENTS.
	PANELBOARD, RECESSED OR SURFACE MOUNTED AS SHOWN ON DRAWINGS. TOP OF PANEL AT 6' A.F.F. OR 4' A.F.F. IN ACCESSIBLE APARTMENT UNITS. ADJUSTED TO OCCUR AT A MASONARY JOINT, SEE PANELBOARD SCHEDULE FOR EQUIPMENT CONTAINED.
"MMC"	MODULAR WIRING CABINET. RECESSED OR SURFACE MOUNTED AS INDICATED ON DRAWINGS. TOP OF CABINET AT 5' A.F.F. USE HUBBELL CO. MODEL # NSOBNK14 WITH 8-PORT PHONE AND 4-PORT FOR COAX. PROVIDE DUPLEX RECEPTACLE CONNECTED TO ADJACENT BEDROOM OR LIVING ROOM RECEPTACLE CIRCUIT.
A-1	HOMERUN CONDUIT AND CONDUCTORS EXTENDED TO PANELBOARD "A", CIRCUIT # 1. CROSS LINES INDICATE THE NUMBER OF #12 AWG CONDUCTORS WHERE MORE THAN TWO.
	OVERHEAD WIRING
	UNDERGROUND WIRING
(A)1 (A)3	FLUORESCENT OR LED LIGHTING FIXTURE; "A" INDICATES TYPE, REFER TO LIGHTING FIXTURE SCHEDULE. "b" CORRESPONDS TO CONTROLLING SWITCH.
(A)1	HID, INCANDESCENT, LED, OR COMPACT FLUORESCENT LIGHTING FIXTURE; "A" INDICATES TYPE, REFER TO LIGHTING FIXTURE SCHEDULE. "b" CORRESPONDS TO CONTROLLING SWITCH.
(A)	CEILING FAN, WITH OR WITHOUT LIGHT KIT; "A" INDICATES TYPE, REFER TO LIGHTING FIXTURE SCHEDULE.
	LAMP POST STYLE FIXTURE, REFER TO SITE LIGHT FIXTURE SCHEDULE
EF	EMERGENCY FIXTURE, REMOTE WEATHERPROOF UNIT POWERED FROM COMBINATION UNIT, INSTALL 96" AFF. REFER TO TYPE "EP" IN LIGHTING FIXTURE SCHEDULE.
S_a	LIGHT SWITCH, TOGGLE, 20 AMP. 277V, MTD 48" AFF, UNO. "a" CORRESPONDS TO FIXTURES CONTROLLED BY SWITCH.
S_3	3-WAY LIGHT SWITCH, 20 AMP, 277V, MTD 48" AFF, UNO.
S_4	4-WAY LIGHT SWITCH, 20 AMP, 277V, MTD 48" AFF, UNO.
D	LIGHT SWITCH, DIMMING, 120VOLT, MTD 48" AFF, UNO. COMPATIBLE WITH FIXTURES, VERIFY WITH MANUFACTURER.
OS	OCCUPANCY SENSOR, DUAL TECHNOLOGY, WALL MOUNTED, WATTSTOPPER DW-100 OR EQUAL, INSTALL 48" AFF
PS	PHOTOCELL SENSOR
J	JUNCTION BOX, SIZE AND USE AS REQUIRED
U	20A, 125V, 2 POLE, 3 WIRE, GROUNDING DUPLEX RECEPTACLE MTD. 42" AFF, UNO. "U" INDICATES DEVICE WITH USB CHARGING PORT.
	20A, 125V, 2 POLE, 3 WIRE, GROUNDING DUPLEX RECEPTACLE, MTD 18" AFF, UNO. "U" INDICATES DEVICE WITH USB CHARGING PORT.
	20A, 125V, 2 POLE, 3 WIRE, GROUNDING QUAD RECEPTACLE, TWO GANG BOX, MTD 42" AFF, UNO.
	20A, 125V, 2 POLE, 3 WIRE, GROUNDING QUAD RECEPTACLE, TWO GANG BOX, MTD 18" AFF, UNO.
	240 VOLT, SINGLE-PHASE RECEPTACLE, NEMA 14-50R, INSTALL +4" A.F.F. EXTEND 6/3 WG TO PANEL.
	240 VOLT, SINGLE-PHASE RECEPTACLE, NEMA 14-30R, INSTALL +36" A.F.F. EXTEND 10/3 WG TO PANEL.
RH	RANGE HOOD, PROVIDE 120 VOLT RECEPTACLE IN CABINET ABOVE.
DW	DISHWASHER, PROVIDE 120 VOLT CONNECTION BELOW COUNTER.
	EXHAUST FAN, PROVIDE 120 VOLT CONNECTION AND MEANS OF DISCONNECT PER NEC.
	HEAVY DUTY FUSED DISCONNECT SWITCH, PROVIDE FUSES AS RECOMMENDED BY EQUIPMENT MFGR. USE NEMA CONFIGURATION AS REQUIRED
TV	TELEVISION OUTLET. PROVIDE JUNTION BOX W/COVERPLATE AND F-TYPE CONNECTOR. EXTEND RG-6 TO MODULAR WIRING CABINET. MOUNTED +18" A.F.F. UNLESS NOTED OTHERWISE.
	PHONE OUTLET, PROVIDE JUNCTION BOX W/COVERPLATE AND RJ11 JACK. EXTEND CAT 5E TO MODULAR WIRING CABINET. MOUNTED +18" A.F.F. UNLESS NOTED OTHERWISE.
	PHONE OUTLET, PROVIDE JUNCTION BOX W/COVERPLATE AND RJ11 JACK. EXTEND CAT 5E TO MODULAR WIRING CABINET. MOUNTED +42" A.F.F. UNLESS NOTED OTHERWISE.
SA	SINGLE-STATION ALARM COMBINATION SMOKE-CARBON MONOXIDE DETECTOR. WALL OR CEILING MOUNTED AS INDICATED ON DRAWINGS. CONNECT 120 VOLT. MOUNT TOP OF DETECTOR 6" BELOW CEILING WHERE WALL MOUNTED. INTERLOCK ALL DETECTORS IN UNITS. USE KIDDE MODEL #SC7010B.
SA ADA	SINGLE-STATION ALARM/STROBE. ADA COMPLIANT. WALL OR CEILING MOUNTED AS INDICATED ON DRAWINGS. CONNECT 120 VOLT. MOUNT TOP OF DETECTOR 6" BELOW CEILING WHERE WALL MOUNTED. INTERLOCK ALL DETECTORS IN UNITS. USE BRK BRAND MODEL #7030BSL.
ST ADA	DOOR CHIME STROBE, PROVIDE LOW VOLTAGE WIRING FROM DOORBELL CHIME. USE WHEELOCK CO. MODEL #RSS-24MCW.
WH	WATER HEATER, 240 VOLTS, 4.5 KW. PROVIDE 30 AMP, 2-POLE. DISCONNECT SWITCH AND CONNECT 10/2 WG TO PANEL.

SPRINKLER MONITORING SYSTEMS DEVICE LEGEND

SYMBOL:	DESCRIPTION OF DEVICE	DEVICE MODEL NUMBER(S)	HEIGHT
S	SPRINKLER MONITORING CONTROL PANEL	4004-9102	TOP @ 6'-0"
TS	TAMPER SWITCH	MONITOR MODULE	AS REQUIRED
FS	FLOW SWITCH	MONITOR MODULE	AS REQUIRED
S	SMOKE DETECTOR	4098-9601 BASE WITH 4098-9788 SENSOR	CLG
HS WP	WEATHER PROOF HORN/STORBE UNIT	4906-9131	7'-6"

NOTES:
MODEL NUMBERS ARE SIMPLEX GRINNELL UNLESS OTHERWISE NOTED

SPRINKER MONITORING WIRING SCHEDULE

DEVICE TYPE	WIRE QUANTITY, SIZE, AND TYPE
MAPNET/ICNET CIRCUIT, COMMUNICATION/DATA LINE	2 #18 TWISTED/SHIELDED
STROBE CIRCUIT, HORN/STROBE CIRCUIT	2 #14
24 VDC MAPNET/ICNET POWER	2 #14

NOTES :
FIRE ALARM SYSTEM WIRING SHALL BE INSTALLED IN CONDUIT.

SPRINKLER MONITORING SYSTEM NOTES:
1. FURNISH AND INSTALL A COMPLETE SPRINKLER MONITORING SYSTEM AS DESRIBED HERIN AND AS SHOWN ON THE PLANS. TO BE WIRED, CONNECTED, TESTED AND LEFT IN FIRST-CLASS OPERATING CONDITION. THE SYSTEM SHALL USE ADDRESSABLE TRUEALARM INITIATING DEVICE CIRCUITS WITH REQUIRED SUPERVISION. ALL EQUIPMENT SHALL BE UL LISTED AND LABLED. HEREIN SPECIFIED IS THAT OF SIMPLEX AND DEPICTS THE TYPE AND QUALITY OF EQUIPMENT TO BE FURNISHED. THE ENTIRE INSTALLATION SHALL CONFORM TO THE APPLICABLE SECTIONS OF NFPA 72, NATIONAL FIRE ALARM CODE; NFPA 101, LIFE SAFETY CODE; NFPA 70, NATIONAL ELECTRIC CODE; THE AMERICANS WITH DISABILITIES ACT AND LOCAL AUTHORITIES HAVING JURISDICTION TO MEET THE COMPLETE FUNCTIONALITY REQUIREMENTS AS SET FORTH IN THESE SPECIFICATIONS.
2. COORDINATE AND INSTALL REQUIRED ANCILLARY ALARM FUNCTIONS WHERE SHOWN ON THE PLANS. EXAMPLES ARE MONITORING OF SPRINKLER SYSTEMS AND HVAC SHUTDOWN.
3. SPRINKLER MONITORING CONTROL PANEL - SIMPLEX MODEL 4004 OR EQUAL WITH A MINIMUM OF 8 ZONES, CAPABLE OF SUPPORTING ALARM INITIATING APPLIANCES AND ALARM INDICATING APPLIANCES AS REQUIRED ON PLANS. THE CONTROL PANEL SHALL BE PROGRAMMALBE VIA THE FRONT OF THE PANEL FOR INPUT/OUTPUT FUNCTIONS AND SHALL CONTAIN A HISTORICAL EVENT LOG, 80 CHARACTER LCD DISPLAY AND A SYSTEM WALK TEST OPTION.
4. CONTROL PANEL REMOTE REPORTING - THE SYSTEM SHALL HAVE AN INTERNALLY MOUNTED DIGITAL ALARM COMMUNICATING TRANSMITTER (DACT), CAPABLE OF BEING PROGRAMMED FOR COMMUNICATIONS WITH A MINIMUM OF TWO TELEPHONE CIRCUITS AND WITH PROGRAMMABLE LOCAL A.C. POWER FAIL TIME DELAY REPORTING. 24 VDC OPERATING VOLTAGE AND BATTERY BACKUP SHALL BE PROVIDED BY THE CONTROL PANEL. DACT SHALL REPORT TO MANUFACTURER'S UL LISTED CENTRAL STATION MONITOR FACILITY.
5. PROVIDE BATTERY CALCULATIONS TO SHOW THAT THE PROPER QUANTITY OF BATTERIES ARE SUPPLIED THAT UPON LOSS OF 120 VAC POWER WILL PROVIDE A MINIMUM OF 24 HOURS OF NORMAL SUPERVISORY MODE FOLLOWED BY 5 MINUTES OF ALARM INDICATION.
6. PROVIDE SUBMITTALS CONTAINING COMPLETE DESCRIPTIVE DATA AND CADD DRAWINGS SHOWING CONDUIT LAYOUT, WIRE COUNT AND DEVICE LOCATIONS.
7. SYSTEM SHALL BE FULLY TESTED BY A NICET CERTIFIED TECHNICIAN IN THE PRESENCE OF THE OWNER'S REPRESENTATIVE AND BE WARRANTED FOR ONE YEAR.
8. ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR ENSURING THAT THE FIRE ALARM SYSTEM IS ACCEPTABLE TO THE LOCAL FIRE OFFICAL HAVING JURISDICTION. ALL LABOR, MATERIALS AND EQUIPMENT NECESSARY FOR AN OPERATING AND FULLY FUNCTIONAL SYSTEM IS INCLUDED IN THIS CONTRACT.

GENERAL ELECTRICAL NOTES
1. CONTRACTOR IS STRONGLY ENCOURAGED TO VISIT THE JOB SITE AND CAREFULLY EXAMINE THOSE PORTIONS OF THE SITE AFFECTED BY THIS WORK SO AS TO BECOME FAMILIAR WITH EXISTING CONDITIONS AND DIFFICULTIES THAT WILL AFFECT EXECUTION OF THE WORK.
2. CONTRACTOR IS RESPONSIBLE FOR PAYING ALL FEES AND PERMITS. ALSO, THE ELECTRICAL CONTRACTOR SHALL COORDINATE ALL WORK WITH LOCAL UTILITY COMPANY. ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR METERING EQUIPMENT AND ALL ELECTRICAL EQUIPMENT AND WIRING FED FROM THE MAIN SERVICE ENTRANCE.
3. ALL WORK SHALL BE IN ACCORDANCE WITH THE CURRENT/APPLICABLE EDITION OF THE NATIONAL ELECTRICAL CODE, NFPA 70. SHOULD PLANS AND CODES CONFLICT, THE CODE TAKES PRECEDENCE. MAKE NO CHANGES, EVEN IN THE CASE OF CONFLICT, WITHOUT FIRST OBTAINING APPROVAL OF THE ENGINEER.
4. ALL MATERIALS SHALL BE LISTED AND LABELED BY UNDERWRITERS LABORATORY, INC.
5. UNLESS OTHERWISE NOTED, ALL POWER CIRCUIT CONDUCTORS SHALL BE COPPER #12 AWG MINIMUM WITH THHN/THWN, 600 VOLT INSULATION. SERVICE ENTRANCE AND FEEDERS SHALL BE INSTALLED IN CONDUIT. BRANCH CIRCUIT WIRING SHALL BE NON-METALLIC CABLE, "ROMEX". PROVIDE BRANCH CIRCUIT WIRING TO CONNECT ALL DEVICES, FIXTURES, HVAC UNITS, ETC TO CIRCUITS INDICATED ON DRAWINGS. UNDERGROUND CONDUITS SHALL BE SCHEDULE 40 PVC; AND EXPOSED ABOVE GROUND CONDUITS SHALL BE SCHEDULE 80 PVC.
6. A GREEN, COPPER GROUND WIRE SHALL BE INSTALLED IN ALL CONDUIT SYSTEMS PER NEC AND SHALL BE BONDED TO ALL ENCLOSURES, BOXES, AND EQUIPMENT.
7. BONDING JUMPERS SHALL BE USED TO BOND CONDUIT TO ENCLOSURES, BOXES, AND EQUIPMENT WHERE KNOCKOUTS ARE USED.
8. "PROVIDE" AS USED HERE AND ON THE DRAWINGS, IS AN ALL-INCLUSIVE TERM REQUIRING CONTRACTOR TO FURNISH, INSTALL, WIRE, AND CONNECT ALL SPECIFIED EQUIPMENT AS WELL AS COMPONENTS, ACCESSORIES, AND MOUNTING HARDWARE TO INSURE THAT SPECIFIED EQUIPMENT FUNCTIONS TO MEET SYSTEM REQUIREMENTS.
9. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PROTECT OTHER FACILITIES AND EQUIPMENT FROM DAMAGE. THE CONTRACTOR SHALL BEAR ALL EXPENSE FOR REPAIR OR REPLACEMENT OF FACILITIES, EQUIPMENT, OR OTHER PROPERTY DAMAGED BY OPERATIONS IN CONJUNCTION WITH THE COMPLETION OF THIS WORK. ELECTRICAL CONTRACTOR SHALL GIVE ADEQUATE NOTIFICATION TO TENNESSEE ONE CALL, (800) 351-1111, PRIOR TO COMMENCEMENT OF ANY EXCAVATION.
10. THE CONTRACTOR SHALL PROVIDE FIRESTOPPING OF ALL RATED PENETRATIONS PER DETAIL. ELECTRICAL BOXES INSTALLED ON OPPOSITE SIDE OF A FIRE RATED WALL SHALL HAVE A TWO FOOT MINIMAL HORIZONTAL SEPARATION.

LIGHTING NOTES
1. CONTRACTOR SHALL FURNISH AND INSTALL LIGHT SWITCHES FOR ALL LIGHTING AT LOCATIONS AS SHOWN ON THE DRAWINGS.
2. CONFIRM EXACT LIGHT FIXTURE LOCATIONS WITH OWNER/ARCHITECT.
3. EXHAUST FANS SHALL BE FED FROM ROOM LIGHTING CIRCUITS.
4. LIGHT FIXTURES AND CEILING FANS SHALL BE SELECTED BY OWNER/ARCHITECT.
5. PRIOR TO ORDERING THE SPECIFIED LIGHT FIXTURES, THE CONTRACTOR SHALL VERIFY THE FIXTURE IS SUITABLE FOR THE CEILING TYPE. FOR EXAMPLE, A FIRE RATED FIXTURE SHALL BE INSTALLED IN A FIRE RATED ASSEMBLY. IF DISCREPENCIES ARE FOUND, THE CONTRACTOR SHALL NOTIFY THE ATCHITECT AND ENGINEER PRIOR TO PROCEEDING.

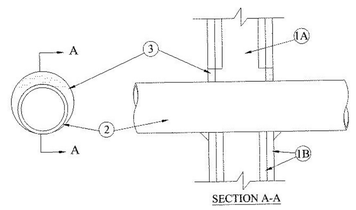
COMMUNICATIONS NOTES
1. CONTRACTOR SHALL FURNISH AND INSTALL TELEPHONE CABLING FROM THE TELEPHONE TERMINAL LOCATION TO EACH DWELLING UNIT. TELEPHONE LOCATIONS IN EACH UNIT SHALL BE DETERMINED AT THE TIME OF CONSTRUCTION. CONTRACTOR SHALL COORDINATE TELEPHONE SYSTEM REQUIREMENTS WITH LOCAL TELEPHONE PROVIDER.
2. CONTRACTOR SHALL FURNISH AND INSTALL TELEVISION CABLING FROM THE CABLE TELEVISION SERVICE ENTRANCE TO EACH DWELLING UNIT. CABLE TELEVISION OUTLET LOCATIONS IN EACH UNIT SHALL BE DETERMINED AT THE TIME OF BUILDOUT. CONTRACTOR SHALL FURNISH AND INSTALL CABLE TELEVISION CABLE, BOXES, TERMINATIONS, ETC. REQUIRED FOR A FULLY OPERATIONAL SYSTEM. COORDINATE SYSTEM REQUIREMENTS WITH LOCAL TELEVISION SUPPLIER.
3. ALL COMMUNICATIONS SERVICE CABLES/CONDUCTORS SHALL ENTER THE BUILDING UNDERGROUND IN CONDUITS AS SPECIFIED BY THE SERVICE PROVIDERS. COORDINATE SERVICE ENTRANCE LOCATIONS WITH GENERAL CONTRACTOR/DEVELOPER.
4. EMPTY DUCTS SHALL HAVE A PULL ROPE INSTALLED.

POWER NOTES
1. CONTRACTOR SHALL FURNISH AND INSTALL FUSED DISCONNECTS FOR ALL HVAC EQUIPMENT WITH FUSES AS PER MANUFACTURER RECOMMENDATIONS. AMPACITY, POLES, AND TYPE NEMA ENCLOSURE OF DISCONNECT SWITCHES AS REQUIRED. FURNISH AND INSTALL A WEATHERPROOF, GFCI DUPLEX RECEPTACLE OUTLET WITHIN 25 FEET OF EACH HVAC PIECE OF EQUIPMENT.
2. MOUNT ALL SWITCHES AND OTHER ELECTRICAL EQUIPMENT IN COMPLIANCE WITH APPLICABLE PROVISIONS OF THE ADA.
3. ALL KITCHEN, TOILET, UTILITY SINK, LAUNDRY, AND EXTERIOR HVAC SERVICE RECEPTACLES SHALL BE GFCI. ALL EXTERIOR RECEPTACLES SHALL HAVE APPROVED WEATHERPROOF IN-USE COVERS AS PER CURRENT/APPLICABLE NEC, ARTICLE 406.9.
4. MOUNT TOP OF ELECTRICAL PANELBOARDS AT 6'-0" AFF.
5. ELECTRICAL BOXES INSTALLED ON OPPOSITE SIDES OF A FIRE RATED WALL SHALL HAVE A TWO FOOT MINIMUM HORIZONTAL SEPARATION.
6. ARC-FAULT BREAKERS SHALL BE INSTALLED ON BREAKERS SERVING OUTLETS IN ALL LIVING SPACES PER NEC.
7. CONTRACTOR SHALL CONNECT ALL EQUIPMENT SHOWN ON THE DRAWINGS. CONTRACTOR SHALL PROVIDE ALL COMPONENTS NECESSARY (CONDUIT, CONDUCTORS, CABLE, BOXES, ETC.) TO CONNECT EQUIPMENT.
8. CONTRACTOR SHALL FURNISH AND INSTALL ALL EQUIPMENT NECESSARY (CONDUIT, CONDUCTORS, BOXES, ETC.) TO CONNECT ALL SMOKE DETECTORS. CONTRACTOR SHALL INTERCONNECT ALL SMOKE DETECTORS TOGETHER INSIDE EACH UNIT.
9. RECEPETACLES SHALL BE TAMPER AND WEATHER RESISTANT PER NEC.

ELECTRICAL ABBREVIATIONS

ABBREVIATIONS	DESCRIPTION:
A	AMPERE
AFF	ABOVE FINISHED FLOOR - MEASURED FROM FLOOR TO CENTER OF DEVICE, EXCEPT AS OTHERWISE SPECIFICALLY NOTED.
ADA	AMERICANS WITH DISABILITIES ACT OF 1990
AFG	ABOVE FINAL GRADE
C	CONDUIT
CM	INDICATES DEVICE TO BE CEILING MOUNTED
EM	INDICATES FIXTURE TO BE CONNECTED TO BUILDING EMERGENCY POWER SYSTEM.
EUH	ELECTRIC UNIT HEATER
F	FUSE
FAR	FUSE AS REQUIRED
FPN	FUSE PER NAMEPLATE REQUIREMENTS
G	GROUND
GF	INDICATES RECEPTACLE OR CIRCUIT BREAKER, AS APPLICABLE, TO HAVE GROUND FAULT PROTECTION
MCM	Kcmil (THOUSAND CIRCULAR MILS)
NEC	NATIONAL ELECTRICAL CODE
N	NEUTRAL
NL	INDICATES FIXTURE TO BE CONNECTED UNSWITCHED TO SERVE AS A "NIGHT" LIGHT.
PH	PHASE
SCIR	SHORT CIRCUIT INTERRUPTING RATING
S.O.	SPACE ONLY
UNO	UNLESS NOTED OTHERWISE
VFD	VARIABLE FREQUENCY DRIVE - PROVIDED UNDER DIVISION 15
VIF	VERIFY IN FIELD
WG	INDICATES ITEM IS SUBJECT TO PHYSICAL DAMAGE; PROVIDE WIRE GUARD PROTECTION.
WP	INDICATES DEVICE TO HAVE WEATHERPROOF COVER, TAYMAC MODEL NO. MX9200 OR EQUAL.

System No.W-L-1054
October 14, 2015
F Rating - 1 and 2 Hr (See Items 1 and 3)
T Rating - 0 Hr
L Rating At Ambient - Less Than 1 CFM/sq ft
L Rating At 400 F - Less Than 1 CFM/sq ft



SECTION A-A

1. Wall Assembly — The 1 or 2 hr fire-rated gypsum wallboard/stud wall assembly shall be constructed of the materials and in the manner specified in the individual U300 or U400 Series Wall and Partition Designs in the UL Fire Resistance Directory and shall include the following construction features:
   A. Studs — Wall framing may consist of either wood studs or steel channel studs. Wood studs to consist of nom 2-by 4 in. (51 by 102 mm) lumber spaced 16 in. (406 mm) OC. Steel studs to be min 2-1/2 in. (64 mm) wide and spaced max 24 in. (610 mm) OC. When steel studs are used and the diam of opening exceeds the width of stud cavity, the opening shall be framed on all sides using lengths of steel stud installed between the vertical studs and screw-attached to the steel studs at each end. The framed opening in the wall shall be 4 to 6 in. (102 to 152 mm) wider and 4 to 6 in. (102 to 152 mm) higher than the diam of the penetrating item such that, when the penetrating item is installed in the opening, a 2 to 3 in. (51 to 76 mm) clearance is present between the penetrating item and the framing on all four sides.
   B. Gypsum Board* — 5/8 in. (16 mm) thick, 4 ft (122 cm) wide with square or tapered edges. The gypsum board type, thickness, number of layers, fastener type and sheet orientation shall be as specified in the individual U300 or U400 Series Design in the UL Fire Resistance Directory. Max diam of opening is 32-1/4 in. (819 mm) for steel stud walls. Max diam of opening is 14-1/2 in. (368 mm) for wood stud walls. The F and FH Ratings of the firestop system are equal to the fire rating of the wall assembly.
2. Through-Penetrants — One metallic pipe, conduit or tubing to be installed either concentrically or eccentrically within the firestop system. The annular space shall be min 0 in. to max 2-1/4 in. (57 mm). Pipe may be installed with continuous point contact. Pipe, conduit or tubing to be rigidly supported on both sides of wall assembly. The following types and sizes of metallic pipes, conduits or tubing may be used:
   A. Steel Pipe — Nom 30 in. (762 mm) diam (or smaller) Schedule 10 (or heavier) steel pipe.
   B. Iron Pipe — Nom 30 in. (762 mm) diam (or smaller) cast or ductile iron pipe.
   C. Conduit — Nom 4 in. (102 mm) diam (or smaller) steel electrical metallic tubing or 6 in. (152 mm) , diam steel conduit.
   D. Copper Tubing — Nom 6 in. (152 mm) diam (or smaller) Type L (or heavier) copper tubing.
   E. Copper Pipe — Nom 6 in. (152 mm) diam (or smaller) regular (or heavier) copper pipe.
3. Fill, Void or Cavity Material* — Sealant — Min 5/8 in. (16 mm) thickness of fill material applied within the annulus, flush with both surfaces of wall. At the point or continuous contact locations between pipe and wall, a min 1/2 in. (13 mm) diam bead of fill material shall be applied at the pipe wall interface on both surfaces of wall.

HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — FS-One Sealant or FS-ONE MAX Intumescent Sealant
* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.
Last Updated on 2015-10-14

LIGHTING FIXTURE SCHEDULE

SYM	CATALOG NUMBER		LAMPS			MOUNTING	DESCRIPTION
	COMPANY	MODEL NUMBER	NO	WATTS*	TYPE		
CEX	LITHONIA	ECR LED HO	1	3.8	N/A	UNIVERSAL	COMBINATION EMERGENCY LIGHT/EXIT SIGN WITH LED ILLUMINATION, INTEGRAL BATTERY BACK-UP
EX	LITHONIA	EXR LED EL	1	1	N/A	UNIVERSAL	THERMOPLASTIC EXIT SIGN WITH LED ILLUMINATION AND INTEGRAL BATTERY BACK-UP
EM	LITHONIA	EU2 LED	1	3	N/A	UNIVERSAL	TWIN HEAD EMERGENCY LIGHT WITH INTEGRAL BATTERY BACK-UP
EF	LITHONIA	ERE ?? T WP SQ	1	2	N/A	WALL	WET LOCATION REMOTE EMERGENCY HEAD FOR USE WITH TYPE CEX FIXTURE
A	SATCO	S21528	1	13.5	LED	SURFACE	7" SURFACE GLOBE WITH JUNCTION BOX 3000K, 90 CRI, 600 LUMENS
B		NOT USED					
C	MONTE CARLO FANS	5DIC52BKD-V1	2	6.5	LED	DOWNROD OR FLUSH	52" DIA DISCUS CLASSIC CEILING FAN, MATTE BLACK HOUSING WITH BLACK ABS BLADES WITH LIGHT KIT 600 LUMENS, 3000K
D	SIGNIFY	LINCS100EL19930UNV WHGDIM	1	2.5	LED	SURFACE	UNDERCABINET LIGHTING 3000K, 391 LUMENS, 90 CRI
E	KOVACS	P5042-084-L	1	20	LED	WALL, ABOVE MIRROR	24" VANITY LIGHT 1,200 LUMENS, 3000K, 80 CRI
G	CONTECH LIGHTING	R2RM130KCMVDS-CP TRIM: CST2322L-???	1	10	LED	RECESSED	EXTERIOR DOWNLIGHT WITH BLACK TRIM 1100 LUMENS, 90 CRI, 3,000K
H	SATCO	62-1612	1	6	LED	WALL	LEDGES MEDIUM WALL LANTERN, 3,000K
K	WILLIAMS	75R-3-L40/830-OPTIONS-DRV-UNV	1	26.9	LED	WALL,84"AFF	3' UTILITY STRIP LIGHT 4000 LUMENS,80 CRI, 3000K
L	LEVITON	000-09850-LED	1	10	LED	SURFACE	LENSED ATTIC LIGHT 900 LUMENS, 3000K,
M	WAC LIGHTING	FM-W57806-30-BK	1	11	LED	WALL, 6'-8"	6" DIAMETER BLACK DRUM WALL SCONCE, 900 LUMENS, 3,000 K.

1. THE FINISH OF ALL FIXTURES (NOTED BY ? IN THE MODEL NUMBER) SHALL BE VERIFIED WITH AND APPROVED BY THE ARCHITECT.
2. REFER TO THE ARCHITECT'S REFLECTED CEILING PLAN FOR THE EXACT LOCATION OF FIXTURES.
3. ALL FIXTURES SHALL BE FURNISHED COMPLETE WITH LAMPS AND BALLASTS. UNLESS NOTED OTHERWISE, FLUORESCENT LAMPS SHALL BE 3500K, WITH A MINIMUM CRI OF 82. FLUORESCENT BALLASTS SHALL BE GENERIC ELECTRONIC WITH A MAXIMUM THD OF 10%. THD OF 10%.
4. ALL FIXTURES IN KITCHEN OR FOOD PREP AREAS SHALL BE LENSED OR HAVE SHATTER PROOF LAMPS.
5. PROVIDE TENMAT FIRE RATED COVERS FOR ALL RECESSED FIXTURES IN FIRE RATED CEILINGS.

MHM

McCarty Holsaple McCarty, Inc.
550 W. Main St., Suite 300
Knoxville, TN 37902
t 865.544.2000
www.mhminc.com

Consultants:

CIVIL ENGINEER:
HUDDLESTON-STEELE ENGINEERING INC.
2112 N.W. BROAD ST.
MURFREESBORO, TN 37129
615.893.4084

LANDSCAPE ARCHITECT:
RAGAN SMITH
100 E. VINE ST., STE 200
MURFREESBORO, TN 37130
615.546.6050

STRUCTURAL ENGINEER:
HAINES STRUCTURAL GROUP
800 S. GAY ST., STE 1750
KNOXVILLE TN, 37929
865.329.9920

MECHANICAL & PLUMBING ENGINEER:
FACILITY SYSTEMS CONSULTANTS
713 S. CENTRAL ST., STE 101
KNOXVILLE TN, 37902
865.246.0164

ELECTRICAL ENGINEER:
FACILITY SYSTEMS CONSULTANTS
713 S. CENTRAL ST., STE 101
KNOXVILLE TN, 37902
865.246.0164

Project Information:

21026

MHA Parkside Housing
550 W. MAIN ST. KNOXVILLE, TN 37919

LARRY T. HEADLA — REGISTERED ENGINEER — AGRICULTURE — COMMERCE — NO. 107675 — STATE OF TENNESSEE — 4/4/22

Consultant:

FACILITY SYSTEMS CONSULTANTS, LLC
713 South Central Street, Suite 101
Knoxville, Tennessee 37902
Phone: (865) 246-0164
Fax: (865) 246-1964

#	ISSUE	DATE

Issue Date:	04.07.2022
PIC	M. BUTLER
PM	M. BUTLER
PA	G. TAYLOR
Drawn By:	S.A. HUFFAKER
Checked By:	L.T.HEADLA/J.W.HOLIWAY

Sheet Description:

E-001

ELECTRICAL LEGEND, SCHEDULE AND DETAILS

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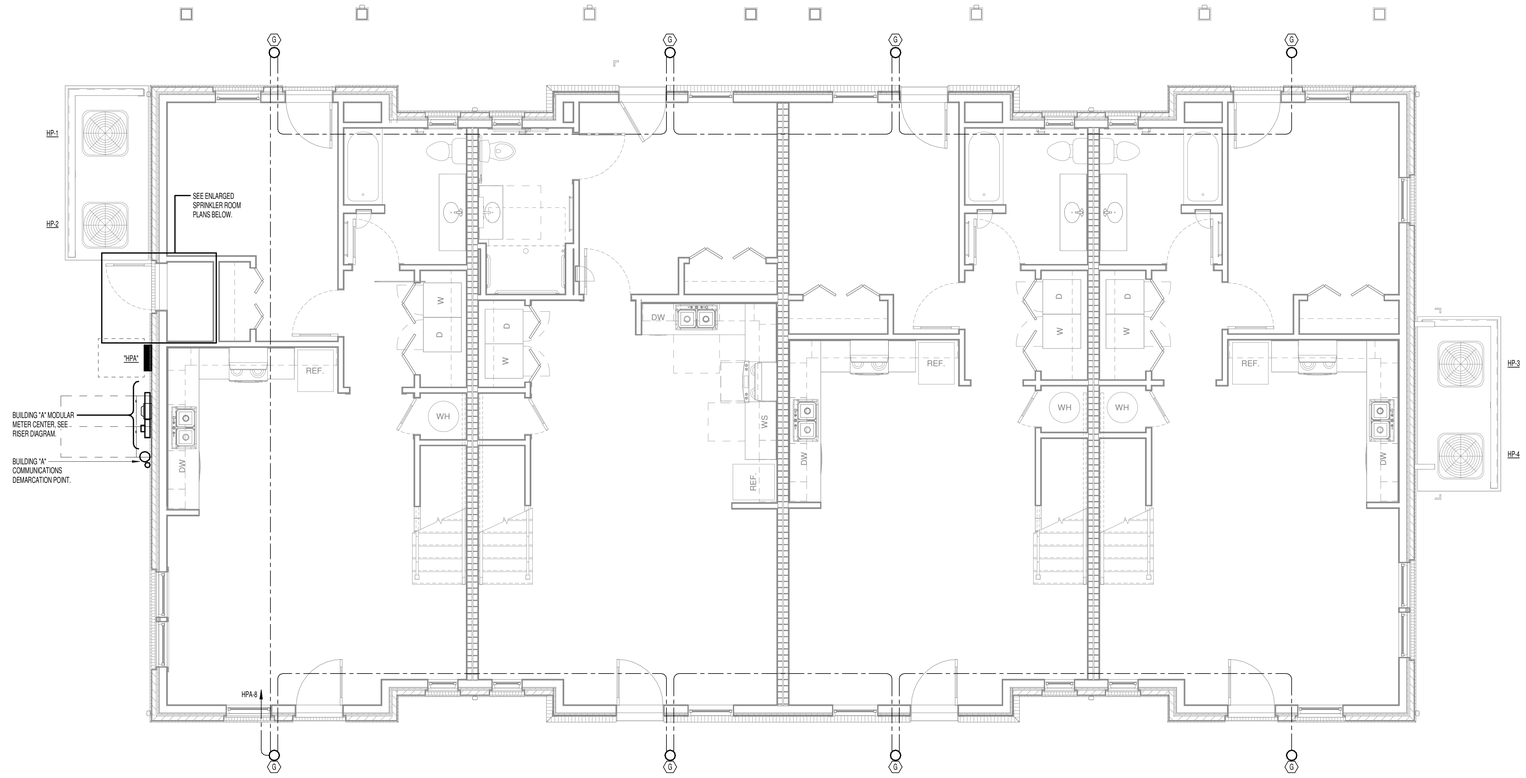
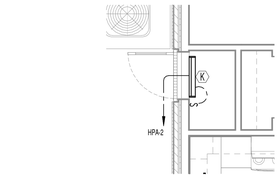


1 BUILDING A -OVERALL ELECTRICAL PLAN
1/4" = 1'-0"

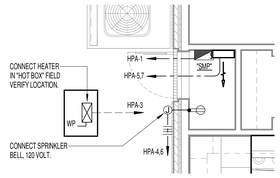
BUILDING A - RISER DIAGRAM

ELECTRICAL RISER DIAGRAM NOTES

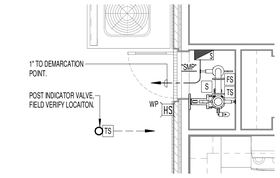
1. THIS SERVICE HAS BEEN DESIGNED FOR 120/240 VOLT, SINGLE PHASE, THREE WIRE.
2. CONTRACTOR SHALL PROVIDE GROUNDING ELECTRODE SYSTEMS AND CONDUCTORS PER NEC 250.50 AT A MINIMUM AND ADDITIONAL REQUIREMENTS AS SHOWN ON THE RISER DIAGRAM.
3. CONTRACTOR SHALL PROVIDE GROUNDING ELECTRODE CONDUCTOR(S) TO ALL METALLIC PIPING SYSTEM(S) AND BOND AS PER NEC 250.52 (A)(1).
4. CONTRACTOR SHALL PROVIDE GROUNDING ELECTRODE CONDUCTOR TO METAL BUILDING FRAME AND BOND PER NEC 250.52 (A)(2).
5. CONTRACTOR SHALL PROVIDE CONCRETE ENCASED ELECTRODE IN BUILDING FOUNDATION AND BOND PER NEC 250.52 (A)(3).
6. CONTRACTOR SHALL PROVIDE GROUNDING ELECTRODE RODS (5/8" BY 10' COPPER) AND BOND PER NEC 250.52 (A)(5)(i).
7. ALL UNDERGROUND AND ENCASED CONNECTIONS SHALL BE EXOTHERMIC. EXPOSED CONNECTIONS MAY BE COMPRESSION TYPE.
8. ALL COMPONENTS SHALL BE COPPER UNLESS NOTED OTHERWISE.



2 BUILDING A -ENLARGED SPRINKLER ROOM LIGHTING PLAN
1/4" = 1'-0"



3 BUILDING A -ENLARGED SPRINKLER ROOM POWER PLAN
1/4" = 1'-0"



4 BUILDING A -ENLARGED SPRINKLER ROOM COMMUNICATIONS & FIRE ALARM PLAN
1/4" = 1'-0"

PANEL:	PANEL HPA			VOLTAGE:	120/240	PHASE:	1		WIRE:	3	BUS:	CU
BUS RATING:	150 AMP			MAIN:	NO - MLO				ENCLOSURE:	NEMA 3R		
LUGS/PHASE:	#1/0			ENTRY:	TOP	AIC:	10,000		MOUNTING:	SURFACE		
#	AMP	POLE	DESCRIPTION	LOAD	A	-	B	LOAD	DESCRIPTION	POLE	AMP	#
1	20	1	"SMP"	300.0	400.0	-	-	100.0	SPRINKLER RM LTG	1	20	2
3	20	1	HOT BOX HEATER	1,500.0		-	1,680.0	180.0	SPRINKLER RM RECPT.	1	20	4
5	20	2	EH-1	1,500.0	1,550.0	-	-	50.0	SPRINKLER BELL	1	20	6
7	|	|		1,500.0	-	-	1,800.0	300.0	OVRHEAD PORCH LTG	1	20	8
9	20	1	SITE LIGHTING	800.0	1,300.0	-	-	500.0	MONUMENT SIGN	1	20	10
11	20	1	SPARE	0.0	-	-	0.0	0.0	SPARE	1	20	12
13	20	1	SPARE	0.0	0.0	-	-	0.0	SPARE	1	20	14
15	20	1	SPARE	0.0	-	-	0.0	0.0	SPARE	1	20	16
17	20	1	SPARE	0.0	0.0	-	-	0.0	SPARE			18
19	20	1	SPARE	0.0	-	-	0.0	0.0	SPARE	1	20	20
PROVIDE 'LOCK-ON' DEVICE AT CIRCUIT #1.				TOTAL	3,250.0	-	3,480.0	VA	PROVIDE 4" BY 14" CABINET, SIMILAR TO SQUARE D CO. "LOAD CENTER" SERIES.			
				TOTAL CONNECTED			6,730.0	VA				

PANEL:	A			VOLTAGE:	120/240	PHASE:	1		WIRE:	3	BUS:	CU
BUS RATING:	150 AMP			MAIN:	NO - MLO				ENCLOSURE:	NEMA 1		
LUGS/PHASE:	#1/0			ENTRY:	BOTTOM	AIC:	10,000		MOUNTING:	RECESSED		
#	AMP	POLE	DESCRIPTION	LOAD	A	-	B	LOAD	DESCRIPTION	POLE	AMP	#
1	20AG	1	KITCHEN RECEPT.	720.0	4,720.0	-	-	4,000.0	RANGE	2	50	2
3	20AG	1	KITCHEN RECEPT.	540.0	-	-	4,540.0	4,000.0		|	|	4
5	20AG	1	REFRIGERATOR	800.0	3,300.0	-	-	2,500.0	DRYER	2	30	6
7	20AG	1	DISHWASHER	1,200.0	-	-	3,700.0	2,500.0		|	|	8
9	20AG	1	LANDING RECEPTS.	1,080.0	3,330.0	-	-	2,250.0	WATER HEATER	2	30	10
11	20AG	1	HOOD/MICROWAVE	1,200.0	-	-	3,450.0	2,250.0		|	|	12
13	20AF	1	LIVING/KIT LIGHTS	250.0	5,650.0	-	-	5,400.0	INDOOR UNIT	2	70	14
15	20AF	1	BED LTS/SM DET/EF	300.0	-	-	5,700.0	5,400.0		|	|	16
17	20AF	1	BED RECEPTACLES	900.0	3,300.0	-	-	2,400.0	OUTDOOR UNIT	2	40	18
19	20AF	1	LIVING RECEPTACLES	1,080.0	-	-	3,480.0	2,400.0		|	|	20
21	20	1	BATH RECEPTACLES	180.0	1,380.0	-	-	1,200.0	WASH MACHINE	1	20AG	22
23	20AF	1	BED RECEPTACLES	900.0	-	-	900.0	0.0	SPARE	1	20AG	24
25	20	1	EXTERIOR RECEPT	360.0	360.0	-	-	0.0	SPARE	1	20	26
27	20	1	BATH RECEPTACLES	360.0	-	-	360.0	0.0	SPARE	1	20	28
29	20AF	1	BED RECEPTACLES	900.0	900.0	-	-	0.0	SPARE	1	20	30
AF=AFCI TYPE; AG=AF/GF COMB.TYPE LOCK-ON DEVICE-15				TOTAL	22,940.0	-	22,130.0	VA	PROVIDE 4" BY 14" CABINET, SIMILAR TO SQUARE D CO. "LOAD CENTER" SERIES.			
				TOTAL CONNECTED			45,070.0	VA				

HVAC LOAD	
INDOOR UNIT FAN =	576.0 WATTS
INDOOR UNIT WATTS =	10,800.0 WATTS
OUTDOOR UNIT =	4,800.0 WATTS
HVAC TOTAL =	16,176.0 WATTS
OTHER LOADS	
LIGHTS/RECEPTACLES =	4,050.0 WATTS
SMALL APPLIANCE =	3,000.0 WATTS
RANGE =	8,000.0 WATTS
DRYER =	5,000.0 WATTS
WASHER =	1,200.0 WATTS
DISHWASHER =	1,200.0 WATTS
DISPOSAL =	0.0 WATTS
MICROWAVE =	1,000.0 WATTS
REFRIGERATOR =	1,000.0 WATTS
WATER HEATER=	4,500.0 WATTS
GARAGE DOOR =	0.0 WATTS
OTHER =	0.0 WATTS
OTHER TOTAL =	28,950.0 WATTS
OTHER TOTAL DEMAND =	17,580.0 WATTS
TOTAL DEMAND =	33,756.0 WATTS
DEMAND AMPS =	141 AMPS

MHM

McCarty Holsaple McCarty, Inc.
550 W. Main St., Suite 300
Knoxville, TN 37902
t 865.544.2000
www.mhminc.com

Consultants:

CIVIL ENGINEER:
HUDDLESTON-STEELE ENGINEERING INC.
2112 N.W. BROAD ST.
MURFREESBORO, TN 37129
615.893.4084

LANDSCAPE ARCHITECT:
RAGAN SMITH
100 E. VINE ST., STE 200
MURFREESBORO, TN 37130
615.546.6050

STRUCTURAL ENGINEER:
HAINES STRUCTURAL GROUP
800 S. GAY ST., STE 1750
KNOXVILLE TN, 37929
865.329.9920

MECHANICAL & PLUMBING ENGINEER:
FACILITY SYSTEMS CONSULTANTS
713 S. CENTRAL ST., STE 101
KNOXVILLE TN, 37902
865.246.0164

ELECTRICAL ENGINEER:
FACILITY SYSTEMS CONSULTANTS
713 S. CENTRAL ST., STE 101
KNOXVILLE TN, 37902
865.246.0164

Project Information:

21026

MHA Parkside Housing
550 W. MAIN ST. KNOXVILLE, TN 37919

LARRY T. HEADLA — REGISTERED ENGINEER — AGRICULTURE — COMMERCE — No. 107975 — STATE OF TENNESSEE
4/4/22

Consultant:
FACILITY SYSTEMS CONSULTANTS, LLC
713 South Central Street, Suite 101
Knoxville, Tennessee 37902
Phone: (865) 246-0144
Fax: (865) 246-1084

#	ISSUE	DATE

Issue Date:	04.07.2022
PIC	M. BUTLER
PM	M. BUTLER
PA	G. TAYLOR
Drawn By:	S.A.HUFFAKER
Checked By:	L.T.HEADLA/J.W.HOLIWAY

Sheet Description:

E-110

BUILDNG A - OVERALLL ELECTRICAL PLAN

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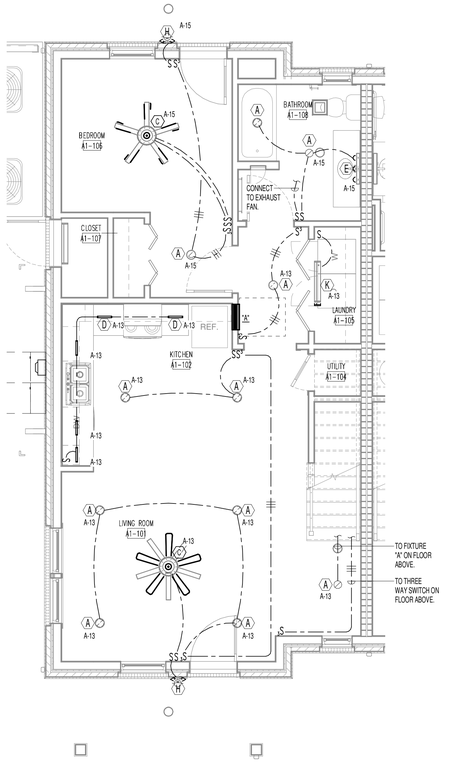
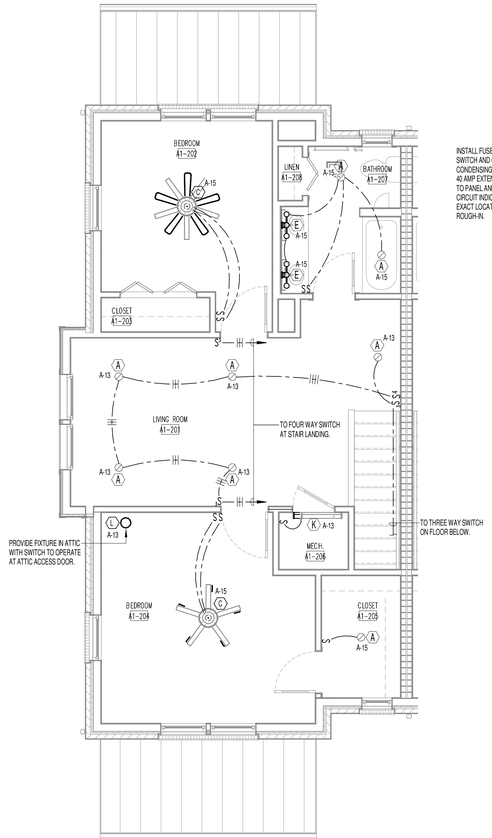
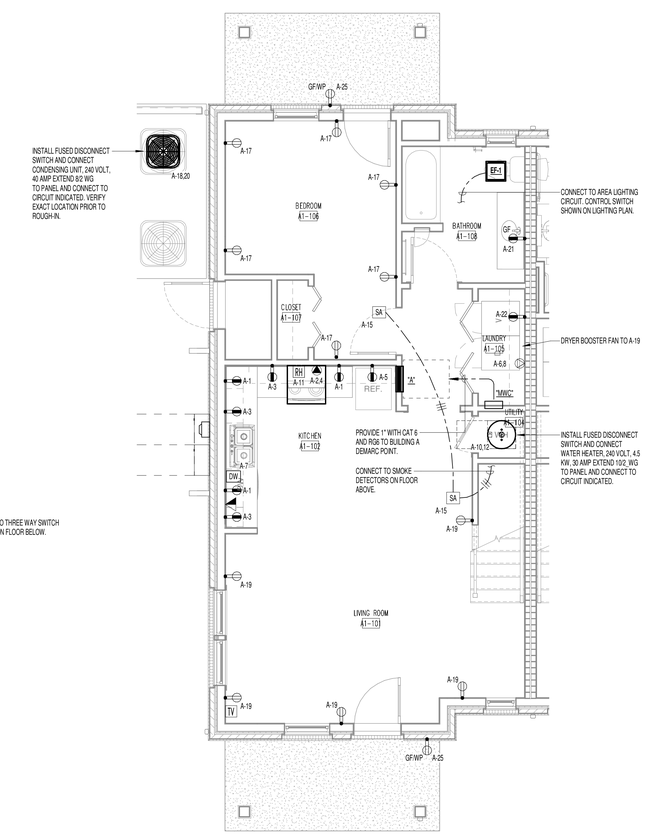


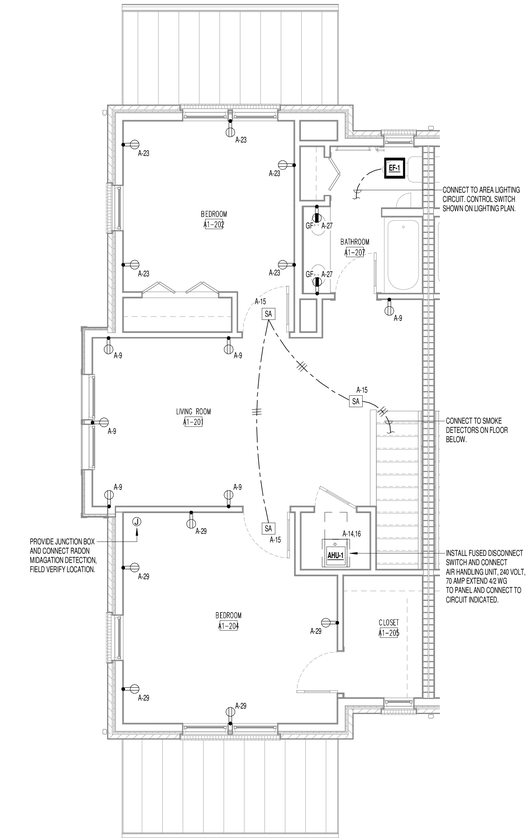
1 BUILDING A -3 BEDROOM UNIT A1 - FIRST FLOOR LIGHTING PLAN
1/4" = 1'-0"



2 BUILDING A - 3 BEDROOM UNIT A1 - SECOND FLOOR LIGHTING PLAN
1/4" = 1'-0"



3 BUILDING A -3 BEDROOM UNIT A1 - FIRST FLOOR POWER & COMMUNICATIONS PLAN
1/4" = 1'-0"



4 BUILDING A - 3 BEDROOM UNIT A1 - SECOND FLOOR POWER & COMMUNICATIONS POWER PLAN
1/4" = 1'-0"

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McCarty Holsaple McCarty, Inc.
550 W. Main St., Suite 300
Knoxville, TN 37902
t 865.544.2000
www.mhminc.com

Consultants:

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2112 N.W. BROAD ST.
MURFREESBORO, TN 37129
615.893.4084

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615.546.6050

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KNOXVILLE TN, 37902
865.246.0164

ELECTRICAL ENGINEER:

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713 S. CENTRAL ST., STE 101
KNOXVILLE TN, 37902
865.246.0164

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4/4/22

Consultant:

FACILITY SYSTEMS CONSULTANTS, LLC
713 South Central Street, Suite 101
Knoxville, Tennessee 37902
Phone: (865) 246-0164
Fax: (865) 246-1644

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PIC	M. BUTLER
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PA	G. TAYLOR
Drawn By:	S.A. HUFFAKER
Checked By:	L.T.HEADLA/J.W.HOLIWAY

Sheet Description:

E-111

BUILDING A - 3 BEDROOM UNIT A1 - ELECTRICAL PLAN

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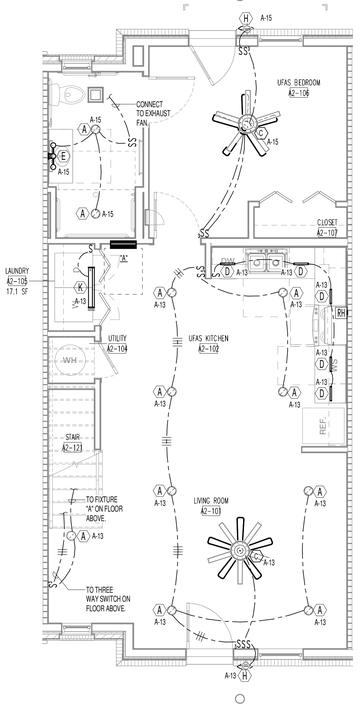
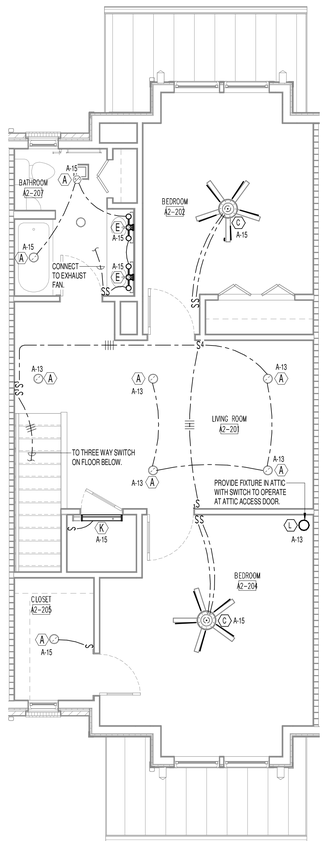
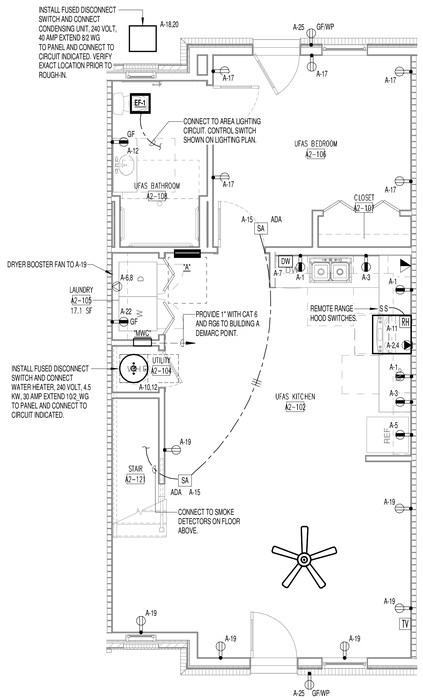


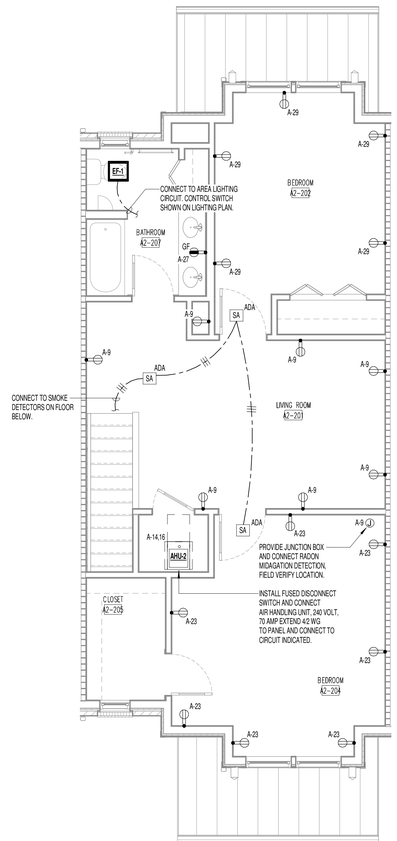
1 BUILDING A - 3 BEDROOM UNIT A2 - FIRST FLOOR LIGHTING PLAN
1/4" = 1'-0"



2 BUILDING A - 3 BEDROOM UNIT A2 - SECOND FLOOR LIGHTING PLAN
1/4" = 1'-0"



3 BUILDING A - 3 BEDROOM UNIT A2 - FIRST FLOOR POWER & COMMUNICAITONS PLAN
1/4" = 1'-0"



4 BUILDING A - 3 BEDROOM UNIT A2 - SECOND FLOOR POWER & COMMUNICATIONS PLAN
1/4" = 1'-0"

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McCarty Holsaple McCarty, Inc.
550 W. Main St., Suite 300
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t 865.544.2000
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KNOXVILLE TN, 37902
865.246.0164

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713 S. CENTRAL ST., STE 101
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FACILITY SYSTEMS CONSULTANTS, LLC
713 South Central Street, Suite 101
Knoxville, Tennessee 37902
Phone: (865) 246-0164
Fax: (865) 246-1964

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Drawn By:	S.A. HUFFAKER
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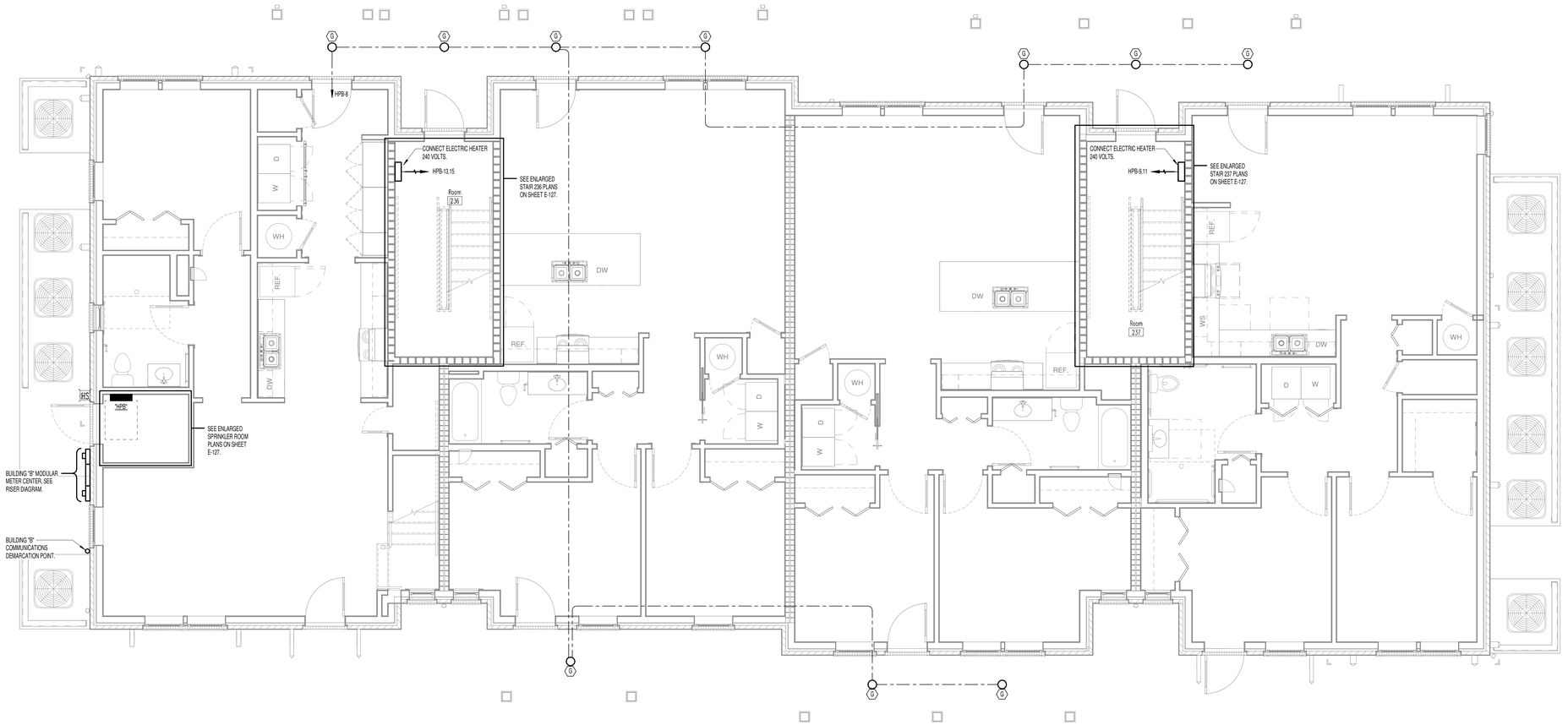
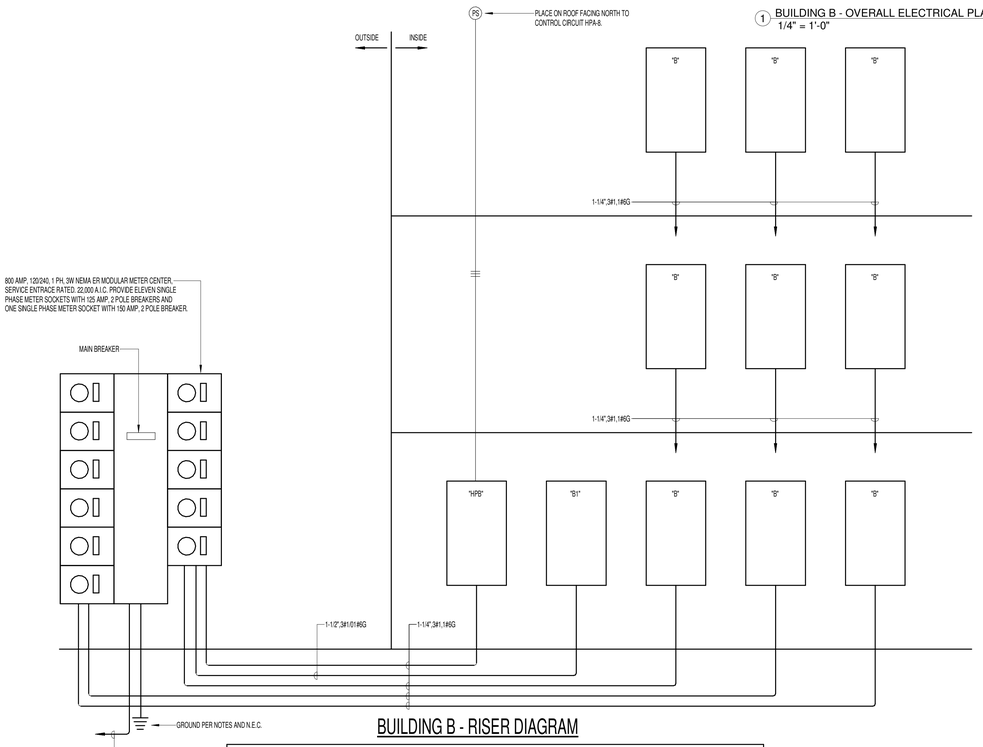
Sheet Description:

E-112

BUILDING A - 3 BEDROOM UNIT A2 (UFAS) - ELECTRICAL PLAN



1 BUILDING B - OVERALL ELECTRICAL PLAN
1/4" = 1'-0"



BUILDING B - RISER DIAGRAM

ELECTRICAL RISER DIAGRAM NOTES

1. THIS SERVICE HAS BEEN DESIGNED FOR 120/240 VOLT, SINGLE PHASE, THREE WIRE.
2. CONTRACTOR SHALL PROVIDE GROUNDING ELECTRODE SYSTEMS AND CONDUCTORS PER NEC 250.50 AT A MINIMUM AND ADDITIONAL REQUIREMENTS AS SHOWN ON THE RISER DIAGRAM.
3. CONTRACTOR SHALL PROVIDE GROUNDING ELECTRODE CONDUCTOR(S) TO ALL METALIC PIPING SYSTEMS AND BOND AS PER NEC 250.52 (A)(1).
4. CONTRACTOR SHALL PROVIDE GROUNDING ELECTRODE CONDUCTOR TO METAL BUILDING FRAME AND BOND PER NEC 250.52 (A)(2).
5. CONTRACTOR SHALL PROVIDE CONCRETE ENCASED ELECTRODE IN BUILDING FOUNDATION AND BOND PER NEC 250.52 (A)(3).
6. CONTRACTOR SHALL PROVIDE GROUNDING ELECTRODE RODS 0/4 BY 10' COPPER) AND BOND PER NEC 250.52 (A)(5)(iii).
7. ALL UNDERGROUND AND ENCASED CONNECTIONS SHALL BE EXOTHERMIC. EXPOSED CONNECTIONS MAY BE COMPRESSION TYPE.
8. ALL COMPONENTS SHALL BE COPPER UNLESS NOTED OTHERWISE.

PANEL:	PANEL HPB			VOLTAGE:	120/240		PHASE:	1		WIRE:	3	BUS:	CU
BUS RATING:	125 AMP			MAIN:	NO - MLO					ENCLOSURE:	NEMA 1		
LUGS/PHASE:	#1			ENTRY:	BOTTOM		AIC:	10,000		MOUNTING:	SURFACE		
#	AMP	POLE	DESCRIPTION	LOAD	A	-	B	LOAD	DESCRIPTION	POLE	AMP	#
1	20	1	"SMP"	300.0	400.0	-	-	100.0	SPRINKLER RM LTG.	1	20	2
3	20	1	HOT BOX HEATER	1,500.0	-	-	1,680.0	180.0	SPRINKLER RM RECPT.	1	20	4
5	20	2	EU HEATER	1,500.0	1,550.0	-	-	50.0	SPRINKLER BELL	1	20	6
7	|	|		1,500.0	-	-	2,000.0	500.0	OVRHEAD PORCH LTG	1	20	8
9	20	2	EU HEATER	1,500.0	2,100.0	-	-	600.0	STAIRWELL LIGHTING	1	20	10
11	|	|		1,500.0	-	-	2,300.0	800.0	SITE LIGHTING	1	20	12
13	20	2	EU HEATER	1,500.0	1,900.0	-	-	400.0	MAIL KIOSK	1	20	14
15	|	|		1,500.0	-	-	1,500.0	0.0	SPARE	1	20	16
17	20	2	SPARE	0.0	360.0	-	-	360.0	SITE RECEPTACLES	1	20	18
19	|	|		0.0	-	-	0.0	0.0	SPARE	1	20	20
PROVIDE "LOCK-ON" DEVICE AT CIRCUIT #1.				TOTAL	6,310.0	-	7,480.0		VA	PROVIDE 4" BY 14" CABINET, SIMILAR TO SQUARE D CO. "LOAD CENTER" SERIES.			
				TOTAL CONNECTED			13,790.0		VA				

PANEL:	B			VOLTAGE:	120/240		PHASE:	1		WIRE:	3	BUS:	CU
BUS RATING:	125 AMP			MAIN:	NO-MLO					ENCLOSURE:	NEMA 1		
LUGS/PHASE:	#1			ENTRY:	BOTTOM		AIC:	10,000		MOUNTING:	RECESSED		
#	AMP	POLE	DESCRIPTION	LOAD	A	-	B	LOAD	DESCRIPTION	POLE	AMP	#
1	20AG	1	KITCHEN RECEPT.	540.0	4,540.0	-	-	4,000.0	RANGE	2	50	2
3	20AG	1	KITCHEN RECEPT.	360.0	-	-	4,360.0	4,000.0		|	|	4
5	20AG	1	REFRIGERATOR	800.0	3,300.0	-	-	2,500.0	DRYER	2	30	6
7	20AG	1	DISHWASHER	1,200.0	-	-	3,700.0	2,500.0		|	|	8
9	20AG	1	SPARE	0.0	2,250.0	-	-	2,250.0	WATER HEATER	2	30	10
11	20AG	1	HOOD/MICROWAVE	1,200.0	-	-	3,450.0	2,250.0		|	|	12
13	20AF	1	LIVING/KIT LIGHTS	200.0	3,656.0	-	-	3,456.0	INDOOR UNIT	2	40	14
15	20AF	1	BED LTS/SM DET/EF	300.0	-	-	3,756.0	3,456.0		|	|	16
17	20AF	1	BED RECEPTACLES	720.0	2,640.0	-	-	1,920.0	OUTDOOR UNIT	2	30	18
19	20AF	1	LIVING RECEPTACLES	1,080.0	-	-	3,000.0	1,920.0		|	|	20
21	20	1	BATH RECEPTACLES	180.0	1,380.0	-	-	1,200.0	WASH MACHINE	1	20AG	22
23	20AF	1	BED RECEPTACLES	720.0	-	-	720.0	0.0	SPARE	1	20AF	24
25	20	1	EXTERIOR RECEPT	540.0	540.0	-	-	0.0	SPARE	1	20AF	26
27	20	1	SPARE	800.0	-	-	800.0	0.0	SPARE	1	20AG	28
29	20	1	SPARE	800.0	800.0	-	-	0.0	SPARE	1	20AG	30
AF=AFCI TYPE; AG=AF/GF COMB.TYPE LOCK-ON DEVICE-15				TOTAL	19,106.0	-	19,786.0		VA	PROVIDE 4" BY 14" CABINET, SIMILAR TO SQUARE D CO. "LOAD CENTER" SERIES.			
				TOTAL CONNECTED			38,892.0		VA				

PANEL:	B1			VOLTAGE:	120/240		PHASE:	1		WIRE:	3	BUS:	CU
BUS RATING:	150 AMP			MAIN:	NO -MLO					ENCLOSURE:	NEMA 1		
LUGS/PHASE:	#1/0			ENTRY:	BOTTOM		AIC:	10,000		MOUNTING:	RECESSED		
#	AMP	POLE	DESCRIPTION	LOAD	A	-	B	LOAD	DESCRIPTION	POLE	AMP	#
1	20AG	1	KITCHEN RECEPT.	540.0	4,540.0	-	-	4,000.0	RANGE	2	50	2
3	20AG	1	KITCHEN RECEPT.	360.0	-	-	4,360.0	4,000.0		|	|	4
5	20AG	1	REFRIGERATOR	800.0	3,300.0	-	-	2,500.0	DRYER	2	30	6
7	20AG	1	DISHWASHER	1,200.0	-	-	3,700.0	2,500.0		|	|	8
9	20AG	1	SPARE	0.0	2,250.0	-	-	2,250.0	WATER HEATER	2	30	10
11	20AG	1	HOOD/MICROWAVE	1,200.0	-	-	3,450.0	2,250.0		|	|	12
13	20AF	1	LIVING/KIT LIGHTS	350.0	5,750.0	-	-	5,400.0	INDOOR UNIT	2	70	14
15	20AF	1	BED LTS/SM DET/EF	450.0	-	-	5,850.0	5,400.0		|	|	16
17	20AF	1	BED RECEPTACLES	900.0	3,300.0	-	-	2,400.0	OUTDOOR UNIT	2	40	18
19	20AF	1	LIVING RECEPTACLES	1,080.0	-	-	3,480.0	2,400.0		|	|	20
21	20	1	BATH RECEPTACLES	180.0	1,380.0	-	-	1,200.0	WASH MACHINE	1	20AG	22
23	20AF	1	BED RECEPTACLES	900.0	-	-	900.0	0.0	SPARE	1	20AG	24
25	20	1	EXTERIOR RECEPT	360.0	360.0	-	-	0.0	SPARE	1	20	26
27	20	1	BATH RECEPTACLES	180.0	-	-	180.0	0.0	SPARE	1	20	28
29	20AF	1	BED RECEPTACLES	900.0	900.0	-	-	0.0	SPARE	1	20	30
31	20AF	1	BED RECEPTACLES	1,080.0	-	-	1,080.0	0.0	SPARE	1	20	32
33	20	1	BATH RECEPTACLES	180.0	180.0	-	-	0.0	SPARE	1	20AF	34
35	20	1	SPARE	0.0	-	-	0.0	0.0	SPARE	1	20AF	36
37	20	1	SPARE	0.0	0.0	-	-	0.0	SPARE	1	20AG	38
39	20	1	SPARE	0.0	-	-	0.0	0.0	SPARE	1	20AG	40
AF=AFCI TYPE; AG=AF/GF COMB.TYPE LOCK-ON DEVICE-15				TOTAL	21,960.0	-	23,000.0		VA	PROVIDE 4" BY 14" CABINET, SIMILAR TO SQUARE D CO. "LOAD CENTER" SERIES.			
				TOTAL CONNECTED			44,960.0		VA				

HVAC LOAD

INDOOR UNIT FAN =	576.0 WATTS
INDOOR UNIT WATTS =	5,400.0 WATTS
OUTDOOR UNIT =	3,840.0 WATTS
HVAC TOTAL =	9,816.0 WATTS
OTHER LOADS	
LIGHTS/RECEPTACLES =	2,745.0 WATTS
SMALL APPLIANCE =	3,000.0 WATTS
RANGE =	8,000.0 WATTS
DRYER =	5,000.0 WATTS
WASHER =	1,200.0 WATTS
DISHWASHER =	1,200.0 WATTS
DISPOSAL =	0.0 WATTS
MICROWAVE =	1,000.0 WATTS
REFRIGERATOR =	1,000.0 WATTS
WATER HEATER=	4,500.0 WATTS
GARAGE DOOR =	0.0 WATTS
OTHER =	0.0 WATTS
OTHER TOTAL =	27,645.0 WATTS
OTHER TOTAL DEMAND =	17,058.0 WATTS
TOTAL DEMAND =	26,874.0 WATTS
DEMAND AMPS =	112 AMPS

HVAC LOAD

INDOOR UNIT FAN =	576.0 WATTS
INDOOR UNIT WATTS =	10,800.0 WATTS
OUTDOOR UNIT =	4,800.0 WATTS
HVAC TOTAL =	16,176.0 WATTS
OTHER LOADS	
LIGHTS/RECEPTACLES =	5,580.0 WATTS
SMALL APPLIANCE =	3,000.0 WATTS
RANGE =	8,000.0 WATTS
DRYER =	5,000.0 WATTS
WASHER =	1,200.0 WATTS
DISHWASHER =	1,200.0 WATTS
DISPOSAL =	0.0 WATTS
MICROWAVE =	1,000.0 WATTS
REFRIGERATOR =	1,000.0 WATTS
WATER HEATER=	4,500.0 WATTS
GARAGE DOOR =	0.0 WATTS
OTHER =	0.0 WATTS
OTHER TOTAL =	30,480.0 WATTS
OTHER TOTAL DEMAND =	18,192.0 WATTS
TOTAL DEMAND =	34,368.0 WATTS
DEMAND AMPS =	143 AMPS

MHM

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Knoxville, TN 37902
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713 South Central Street, Suite 101
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BUILDING B - OVERALL ELECTRICAL PLAN

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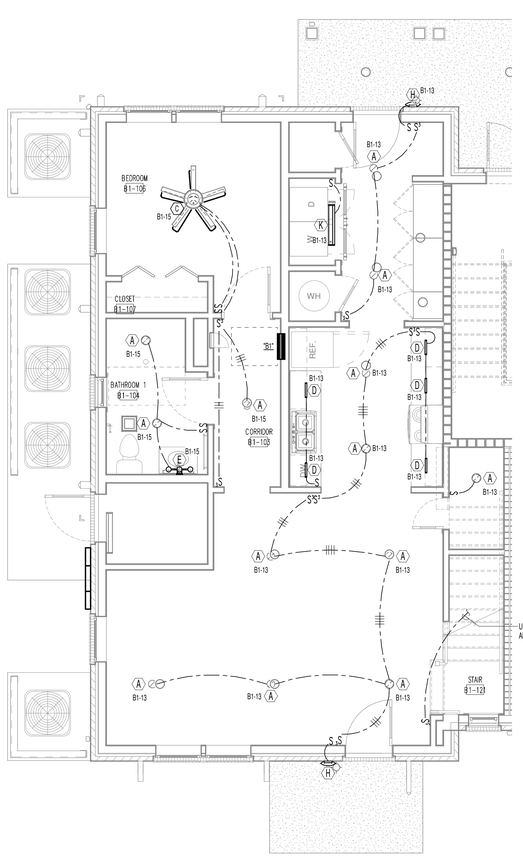
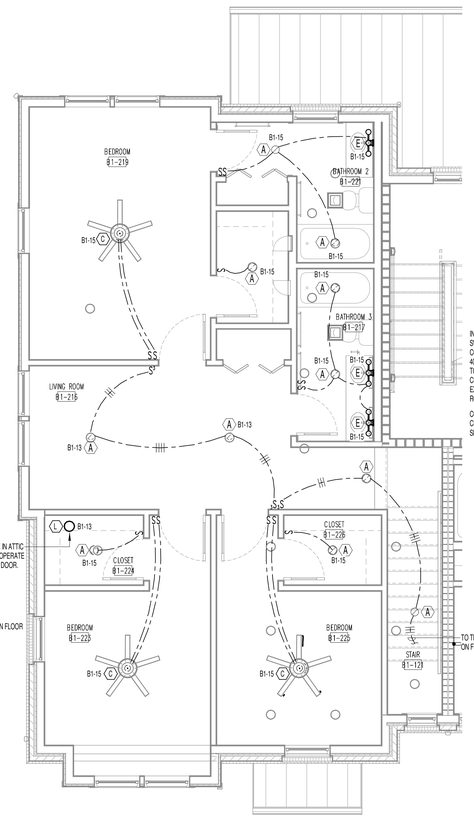


1 BUILDING B - 4 BEDROOM UNIT B1 - FIRST FLOOR LIGHTING PLAN
1/4" = 1'-0"



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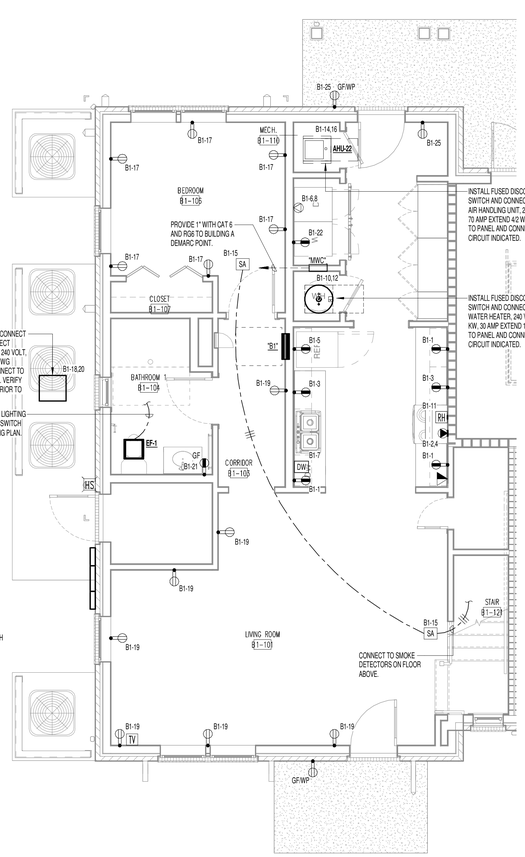
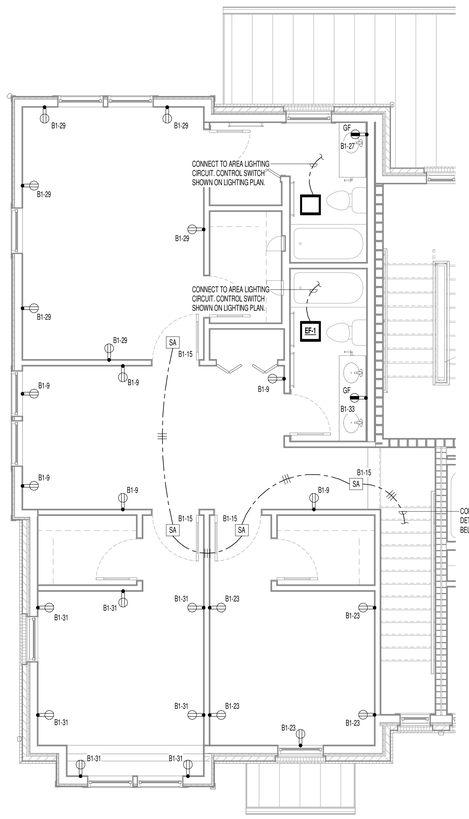
1/4" = 1'-0"



3 BUILDING B - 4 BEDROOM UNIT B1 - FIRST FLOOR POWER & COMMUNICATIONS PLAN
1/4" = 1'-0"



4 BUILDING B - 4 BEDROOM UNIT B1 - SECOND FLOOR POWER & COMMUNICAITONS PLAN
1/4" = 1'-0"

4/20/2022 12:55:57 PM

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McCarty Holsaple McCarty, Inc.
550 W. Main St., Suite 300
Knoxville, TN 37902
t 865.544.2000
www.mhminc.com

Consultants:

CIVIL ENGINEER:

HUDDLESTON-STEELE ENGINEERING INC.
2112 N.W. BROAD ST.
MURFREESBORO, TN 37129
615.893.4084

LANDSCAPE ARCHITECT:

RAGAN SMITH
100 E. VINE ST., STE 200
MURFREESBORO, TN 37130
615.546.6050

STRUCTURAL ENGINEER:

HAINES STRUCTURAL GROUP
800 S. GAY ST., STE 1750
KNOXVILLE TN, 37929
865.329.9920

MECHANICAL & PLUMBING ENGINEER:

FACILITY SYSTEMS CONSULTANTS
713 S. CENTRAL ST., STE 101
KNOXVILLE TN, 37902
865.246.0164

ELECTRICAL ENGINEER:

FACILITY SYSTEMS CONSULTANTS
713 S. CENTRAL ST., STE 101
KNOXVILLE TN, 37902
865.246.0164

Project Information:

21026

MHA Parkside Housing

550 W. MAIN ST. KNOXVILLE, TN 37919

LARRY T. HEADLA
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
No. 107675
STATE OF TENNESSEE
4/4/22

Consultant:

FACILITY SYSTEMS CONSULTANTS, LLC
713 South Central Street, Suite 101
Knoxville, Tennessee 37902
Phone: (865) 246-0164
Fax: (865) 246-1084

#	ISSUE	DATE

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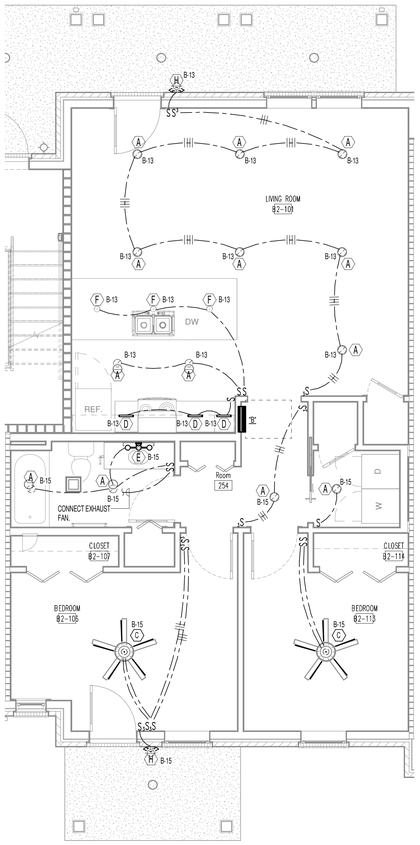
PIC	M. BUTLER
PM	M. BUTLER
PA	G. TAYLOR
Drawn By:	S.A. HUFFAKER
Checked By:	L.T.HEADLA/J.W.HOLIWAY

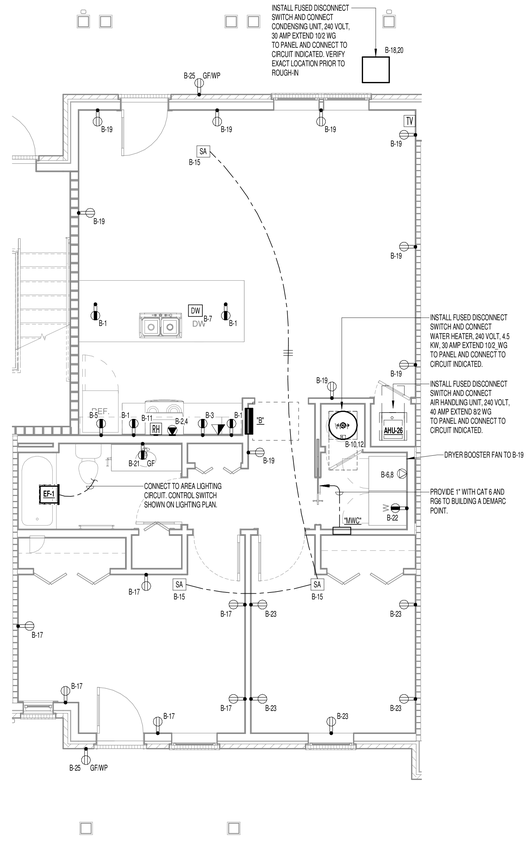
Sheet Description:

E-121

BUILDING B - 4 BEDROOM UNIT B1 - ELECTRCIAL PLAN



1 BUILDING B - 2 BEDROOM UNIT B2 - LIGHTING PLAN
1/4" = 1'-0"



2 BUILDING B - 2 BEDROOM UNIT B2 - POWER & COMMUNICATIONS PLAN
1/4" = 1'-0"

4/20/2022 12:56:04 PM

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Knoxville, TN 37902
t 865.544.2000
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Consultants:

CIVIL ENGINEER:

HUDDLESTON-STEELE ENGINEERING INC.
2112 N.W. BROAD ST.
MURFREESBORO, TN 37129
615.893.4084

LANDSCAPE ARCHITECT:

RAGAN SMITH
100 E. VINE ST., STE 200
MURFREESBORO, TN 37130
615.546.6050

STRUCTURAL ENGINEER:

HAINES STRUCTURAL GROUP
800 S. GAY ST., STE 1750
KNOXVILLE TN, 37929
865.329.9920

MECHANICAL & PLUMBING ENGINEER:

FACILITY SYSTEMS CONSULTANTS
713 S. CENTRAL ST., STE 101
KNOXVILLE TN, 37902
865.246.0164

ELECTRICAL ENGINEER:

FACILITY SYSTEMS CONSULTANTS
713 S. CENTRAL ST., STE 101
KNOXVILLE TN, 37902
865.246.0164

Project Information:

21026

MHA Parkside Housing

550 W. MAIN ST. KNOXVILLE, TN 37919

LARRY T. HEADLEE
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
No. 107675
STATE OF TENNESSEE
4/4/22

Consultant:

FACILITY SYSTEMS CONSULTANTS, LLC
713 South Central Street, Suite 101
Knoxville, Tennessee 37902
Phone: (865) 246-0164
Fax: (865) 246-1084

#	ISSUE	DATE

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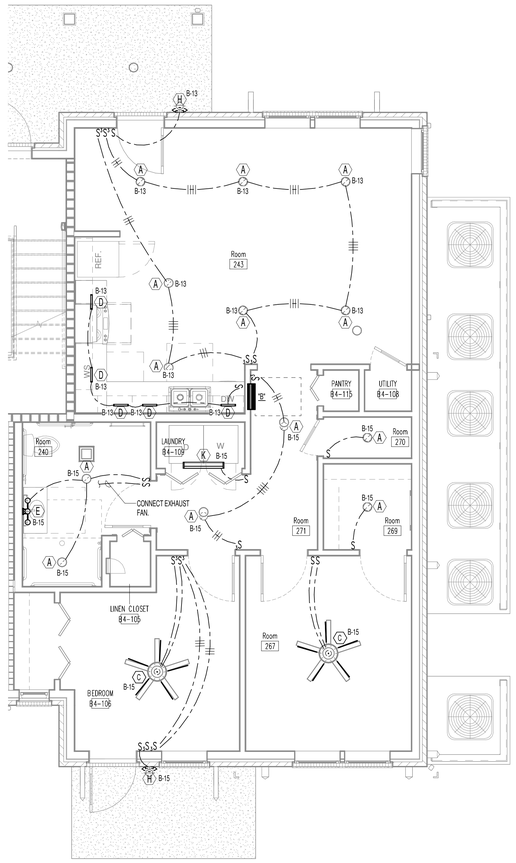
PIC	M. BUTLER
PM	M. BUTLER
PA	G. TAYLOR
Drawn By:	S.A. HUFFAKER
Checked By:	L.T.HEADLA/J.W.HOLIWAY

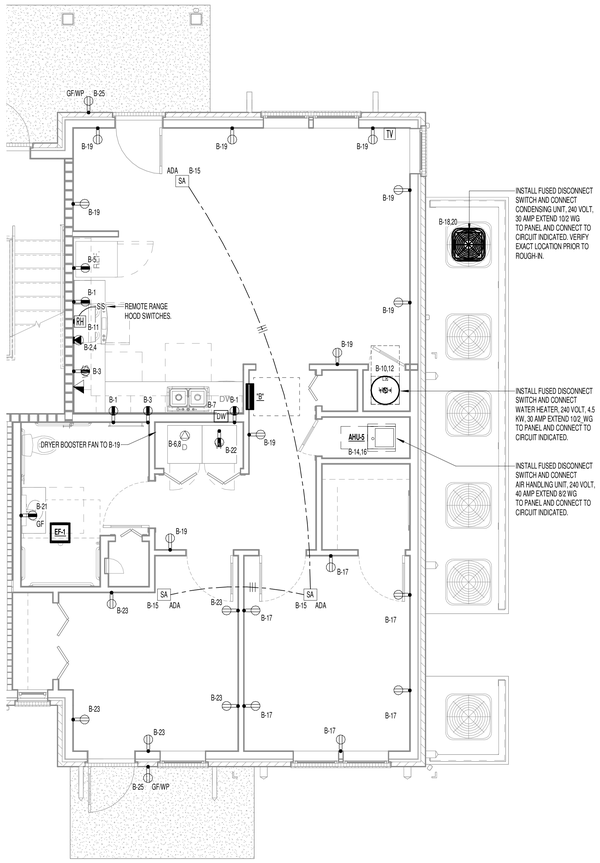
Sheet Description:

E-122

BUILDING B - 2 BEDROOM UNIT B2 - ELECTRICAL PLAN



1 BUILDING B - 2 BEDROOM UFAS UNIT B4 - LIGHTING PLAN
1/4" = 1'-0"



2 BUILDING B - 2 BEDROOM UFAS UNIT B4 - POWER & COMMUNICATIONS PLAN
1/4" = 1'-0"

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McCarty Holsaple McCarty, Inc.
550 W. Main St., Suite 300
Knoxville, TN 37902
t 865.544.2000
www.mhminc.com

Consultants:

CIVIL ENGINEER:

HUDDLESTON-STEELE ENGINEERING INC.
2112 N.W. BROAD ST.
MURFREESBORO, TN 37129
615.893.4084

LANDSCAPE ARCHITECT:

RAGAN SMITH
100 E. VINE ST., STE 200
MURFREESBORO, TN 37130
615.546.6050

STRUCTURAL ENGINEER:

HAINES STRUCTURAL GROUP
800 S. GAY ST., STE 1750
KNOXVILLE TN, 37929
865.329.9920

MECHANICAL & PLUMBING ENGINEER:

FACILITY SYSTEMS CONSULTANTS
713 S. CENTRAL ST., STE 101
KNOXVILLE TN, 37902
865.246.0164

ELECTRICAL ENGINEER:

FACILITY SYSTEMS CONSULTANTS
713 S. CENTRAL ST., STE 101
KNOXVILLE TN, 37902
865.246.0164

Project Information:

21026

MHA Parkside Housing

550 W. MAIN ST. KNOXVILLE, TN 37919

LARRY T. HEADLA — REGISTERED ENGINEER — AGRICULTURE — COMMERCE — No. 107675 — STATE OF TENNESSEE
4/4/22

Consultant:

FACILITY SYSTEMS CONSULTANTS, LLC
713 South Central Street, Suite 101
Knoxville, Tennessee 37902
Phone: (865) 246-0164
Fax: (865) 246-1084

#	ISSUE	DATE

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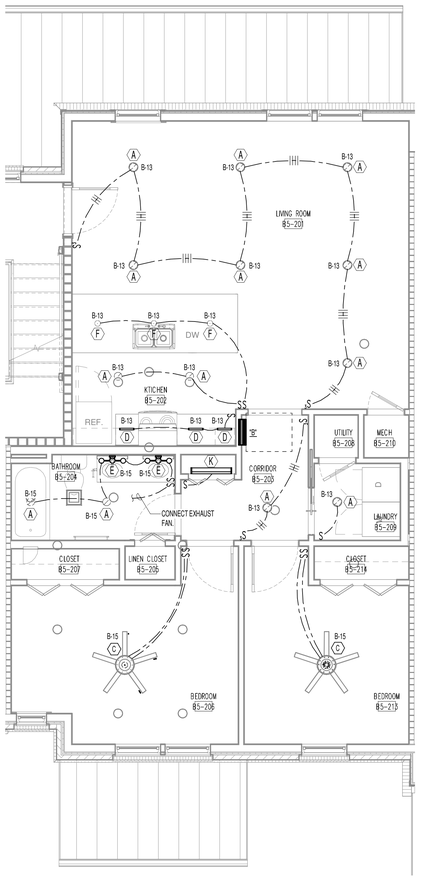
PIC	M. BUTLER
PM	M. BUTLER
PA	G. TAYLOR
Drawn By:	S.A. HUFFAKER
Checked By:	L.T.HEADLA/J.W.HOLIWAY

Sheet Description:

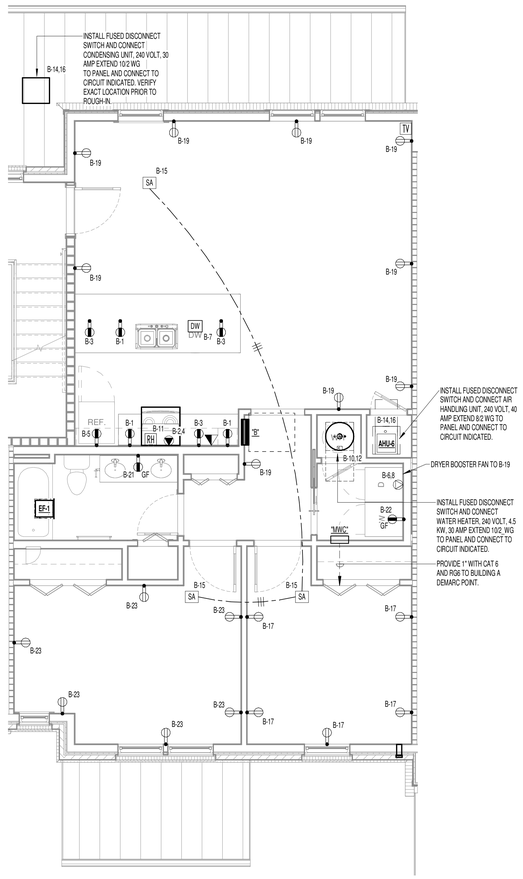
E-123

BUILDING B - 2 BEDROOM UNIT B4 (UFAS) - ELECTRICAL PLAN

4/20/2022 12:56:12 PM



1 BUILDING B - 2 BEDROOM UNIT B5 - LIGHTING PLAN
1/4" = 1'-0"



2 BUILDING B - 2 BEDROOM UNIT B5 - POWER & COMMUNICATIONS PLAN
1/4" = 1'-0"

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550 W. Main St., Suite 300
Knoxville, TN 37902
t 865.544.2000
www.mhminc.com

Consultants:

CIVIL ENGINEER:

HUDDLESTON-STEELE ENGINEERING INC.
2112 N.W. BROAD ST.
MURFREESBORO, TN 37129
615.893.4084

LANDSCAPE ARCHITECT:

RAGAN SMITH
100 E. VINE ST., STE 200
MURFREESBORO, TN 37130
615.546.6050

STRUCTURAL ENGINEER:

HAINES STRUCTURAL GROUP
800 S. GAY ST., STE 1750
KNOXVILLE TN, 37929
865.329.9920

MECHANICAL & PLUMBING ENGINEER:

FACILITY SYSTEMS CONSULTANTS
713 S. CENTRAL ST., STE 101
KNOXVILLE TN, 37902
865.246.0164

ELECTRICAL ENGINEER:

FACILITY SYSTEMS CONSULTANTS
713 S. CENTRAL ST., STE 101
KNOXVILLE TN, 37902
865.246.0164

Project Information:

21026

MHA Parkside Housing

550 W. MAIN ST. KNOXVILLE, TN 37919

LARRY T. HEADLA — REGISTERED ENGINEER — STATE OF TENNESSEE — AGRICULTURE — COMMERCE — NO. 107875 — 4/4/22

Consultant:

FACILITY SYSTEMS CONSULTANTS, LLC
713 South Central Street, Suite 101
Knoxville, Tennessee 37902
Phone: (865) 246-0164
Fax: (865) 246-1984

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PIC	M. BUTLER
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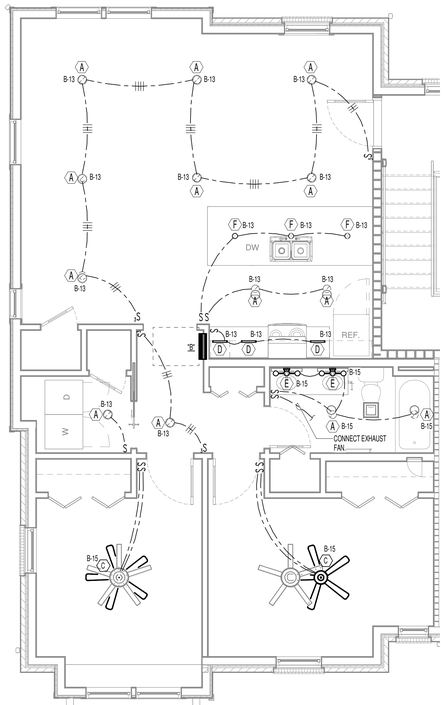
PA	G. TAYLOR
Drawn By:	S.A. HUFFAKER
Checked By:	L.T.HEADLA/J.W.HOLIWAY

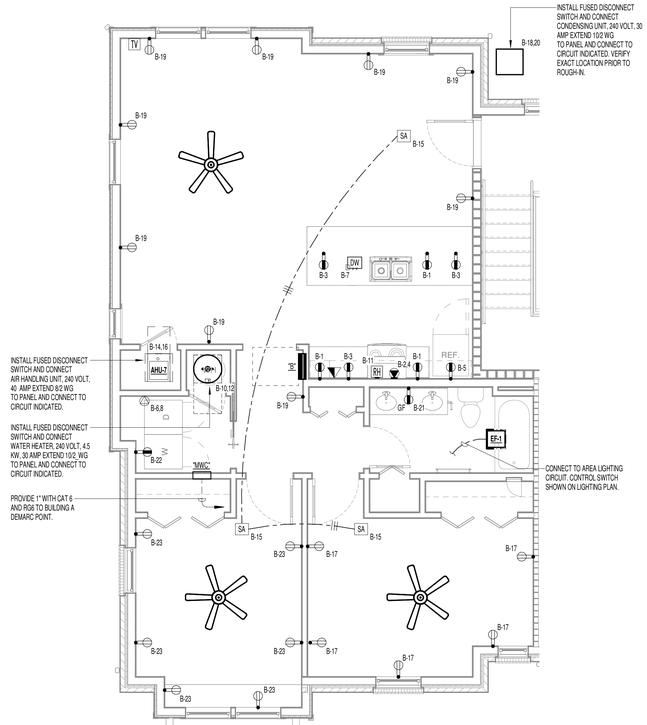
Sheet Description:

E-124

BUILDING B - 2 BEDROOM UNIT B5 - ELECTRICAL PLAN



1 BUILDING B - 2 BEDROOM UNIT B8 - LIGHTING PLAN
1/4" = 1'-0"



2 BUILDING B - 2 BEDROOM UNIT B8 - POWER & COMMUNICAITONS PLAN
1/4" = 1'-0"

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550 W. Main St., Suite 300
Knoxville, TN 37902
t 865.544.2000
www.mhminc.com

Consultants:

CIVIL ENGINEER:

HUDDLESTON-STEELE ENGINEERING INC.
2112 N.W. BROAD ST.
MURFREESBORO, TN 37129
615.893.4084

LANDSCAPE ARCHITECT:

RAGAN SMITH
100 E. VINE ST., STE 200
MURFREESBORO, TN 37130
615.546.6050

STRUCTURAL ENGINEER:

HAINES STRUCTURAL GROUP
800 S. GAY ST., STE 1750
KNOXVILLE TN, 37929
865.329.9920

MECHANICAL & PLUMBING ENGINEER:

FACILITY SYSTEMS CONSULTANTS
713 S. CENTRAL ST., STE 101
KNOXVILLE TN, 37902
865.246.0164

ELECTRICAL ENGINEER:

FACILITY SYSTEMS CONSULTANTS
713 S. CENTRAL ST., STE 101
KNOXVILLE TN, 37902
865.246.0164

Project Information:

21026

MHA Parkside Housing

550 W. MAIN ST. KNOXVILLE, TN 37919

LARRY T. HEADLA — REGISTERED ENGINEER — AGRICULTURE — COMMERCE — 107975 — STATE OF TENNESSEE — 4/4/22

Consultant:

FACILITY SYSTEMS CONSULTANTS, LLC
713 South Central Street, Suite 101
Knoxville, Tennessee 37902
Phone: (865) 246-0144
Fax: (865) 246-1084

#	ISSUE	DATE

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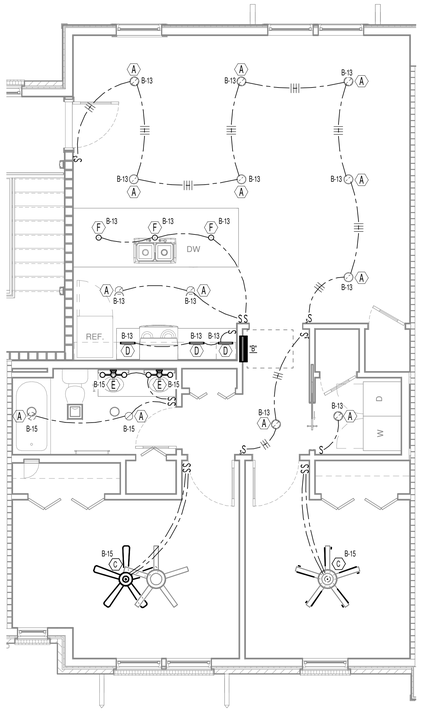
PIC	M. BUTLER
PM	M. BUTLER
PA	G. TAYLOR
Drawn By:	S.A. HUFFAKER
Checked By:	L.T.HEADLA/J.W.HOLIWAY

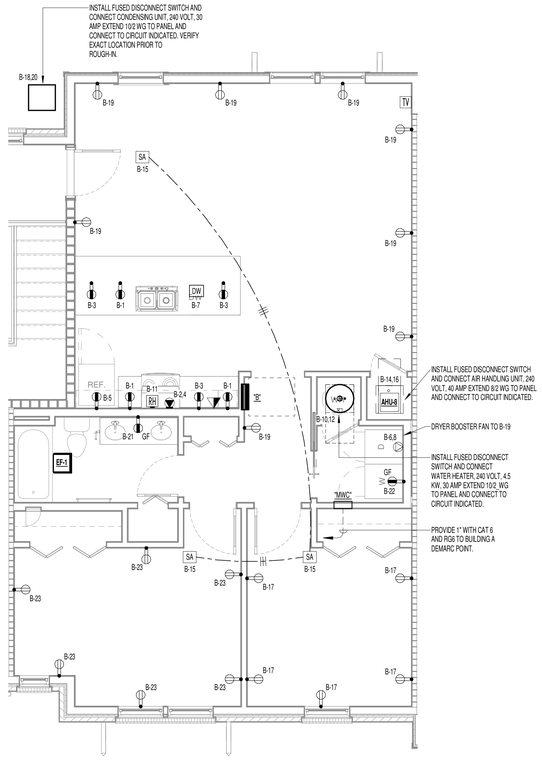
Sheet Description:

E-125

BUILDING B - 2 BEDROOM UNIT B8 - ELECTRICAL PLAN



1 BUILDING B - 2 BEDROOM UNIT B9 - LIGHTING PLAN
1/4" = 1'-0"



2 BUILDING B - 2 BEDROOM UNIT B9 - POWER & COMMUNICATIONS PLAN
1/4" = 1'-0"

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McCarty Holsaple McCarty, Inc.
550 W. Main St., Suite 300
Knoxville, TN 37902
t 865.544.2000
www.mhminc.com

Consultants:

CIVIL ENGINEER:

HUDDLESTON-STEELE ENGINEERING INC.
2112 N.W. BROAD ST.
MURFREESBORO, TN 37129
615.893.4084

LANDSCAPE ARCHITECT:

RAGAN SMITH
100 E. VINE ST., STE 200
MURFREESBORO, TN 37130
615.546.6050

STRUCTURAL ENGINEER:

HAINES STRUCTURAL GROUP
800 S. GAY ST., STE 1750
KNOXVILLE TN, 37929
865.329.9920

MECHANICAL & PLUMBING ENGINEER:

FACILITY SYSTEMS CONSULTANTS
713 S. CENTRAL ST., STE 101
KNOXVILLE TN, 37902
865.246.0164

ELECTRICAL ENGINEER:

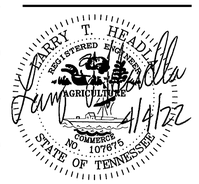
FACILITY SYSTEMS CONSULTANTS
713 S. CENTRAL ST., STE 101
KNOXVILLE TN, 37902
865.246.0164

Project Information:

21026

MHA Parkside Housing

550 W. MAIN ST. KNOXVILLE, TN 37919



Consultant:

FACILITY SYSTEMS CONSULTANTS, LLC
713 South Central Street, Suite 101
Knoxville, Tennessee 37902
Phone: (865) 246-0164
Fax: (865) 246-1544

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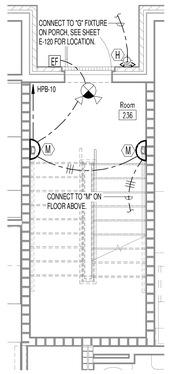
PIC	M. BUTLER
PM	M. BUTLER
PA	G. TAYLOR
Drawn By:	S.A. HUFFAKER
Checked By:	L.T.HEADLA/J.W.HOLIWAY

Sheet Description:

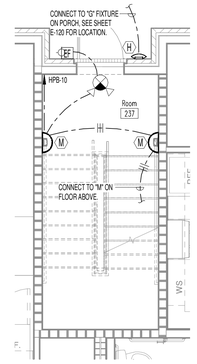
E-126

BUILDING B - 2 BEDROOM UNIT B9 - ELECTRICAL PLAN

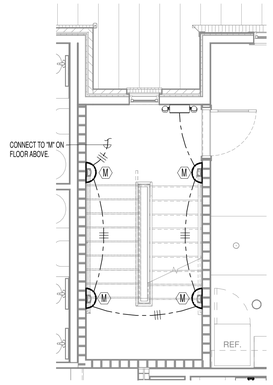
4/20/2022 12:56:32 PM



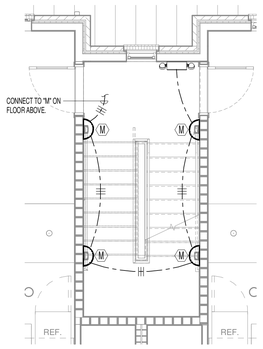
1 BUILDING B - ENLARGED LEVEL 1 STAIR 236 ELECTRICAL PLAN
1/4" = 1'-0"



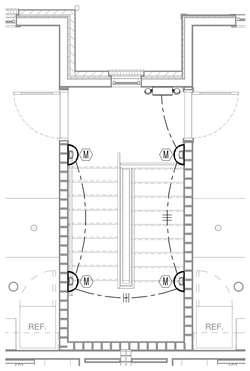
2 BUILDING B - ENLARGED LEVEL 1 STAIR 237 ELECTRICAL PLAN
1/4" = 1'-0"



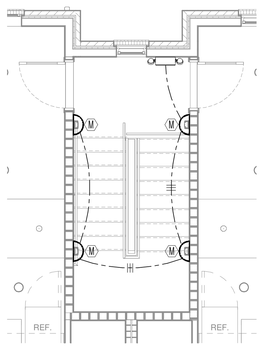
3 BUILDING B - ENLARGED LEVEL 2 STAIR 236 ELECTRICAL PLAN
1/4" = 1'-0"



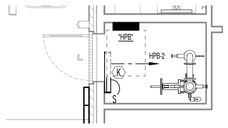
4 BUILDING B - ENLARGED LEVEL 2 STAIR 237 ELECTRICAL PLAN
1/4" = 1'-0"



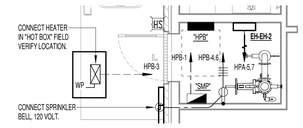
5 BUILDING B - ENLARGED LEVEL 3 STAIR 236 ELECTRICAL PLAN
1/4" = 1'-0"



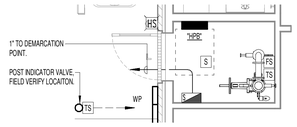
6 BUILDING B - ENLARGED LEVEL 3 STAIR 237 ELECTRICAL PLAN
1/4" = 1'-0"



7 BUILDING B - ENLARGED SPRINKLER ROOM LIGHTING PLAN
1/4" = 1'-0"



8 BUILDING B - ENLARGED SPRINKLER ROOM POWER PLAN
1/4" = 1'-0"



9 BUILDING B - ENLARGED SPRINKLER ROOM COMMUNICATIONS & FIRE ALARM PLAN
1/4" = 1'-0"

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McCarty Holsaple McCarty, Inc.
550 W. Main St., Suite 300
Knoxville, TN 37902
t 865.544.2000
www.mhminc.com

Consultants:

CIVIL ENGINEER:

HUDDLESTON-STEELE ENGINEERING INC.
2112 N.W. BROAD ST.
MURFREESBORO, TN 37129
615.893.4084

LANDSCAPE ARCHITECT:

RAGAN SMITH
100 E. VINE ST., STE 200
MURFREESBORO, TN 37130
615.546.6050

STRUCTURAL ENGINEER:

HAINES STRUCTURAL GROUP
800 S. GAY ST., STE 1750
KNOXVILLE TN, 37929
865.329.9920

MECHANICAL & PLUMBING ENGINEER:

FACILITY SYSTEMS CONSULTANTS
713 S. CENTRAL ST., STE 101
KNOXVILLE TN, 37902
865.246.0164

ELECTRICAL ENGINEER:

FACILITY SYSTEMS CONSULTANTS
713 S. CENTRAL ST., STE 101
KNOXVILLE TN, 37902
865.246.0164

Project Information:

21026

MHA Parkside Housing

550 W. MAIN ST. KNOXVILLE, TN 37919

LARRY T. HEADLA — REGISTERED ENGINEER — AGRICULTURE — COMMERCE — NO. 107675 — STATE OF TENNESSEE — 4/4/22

Consultant:

FACILITY SYSTEMS CONSULTANTS, LLC
713 South Central Street, Suite 101
Knoxville, Tennessee 37902
Phone: (865) 246-0164
Fax: (865) 246-0164

#	ISSUE	DATE

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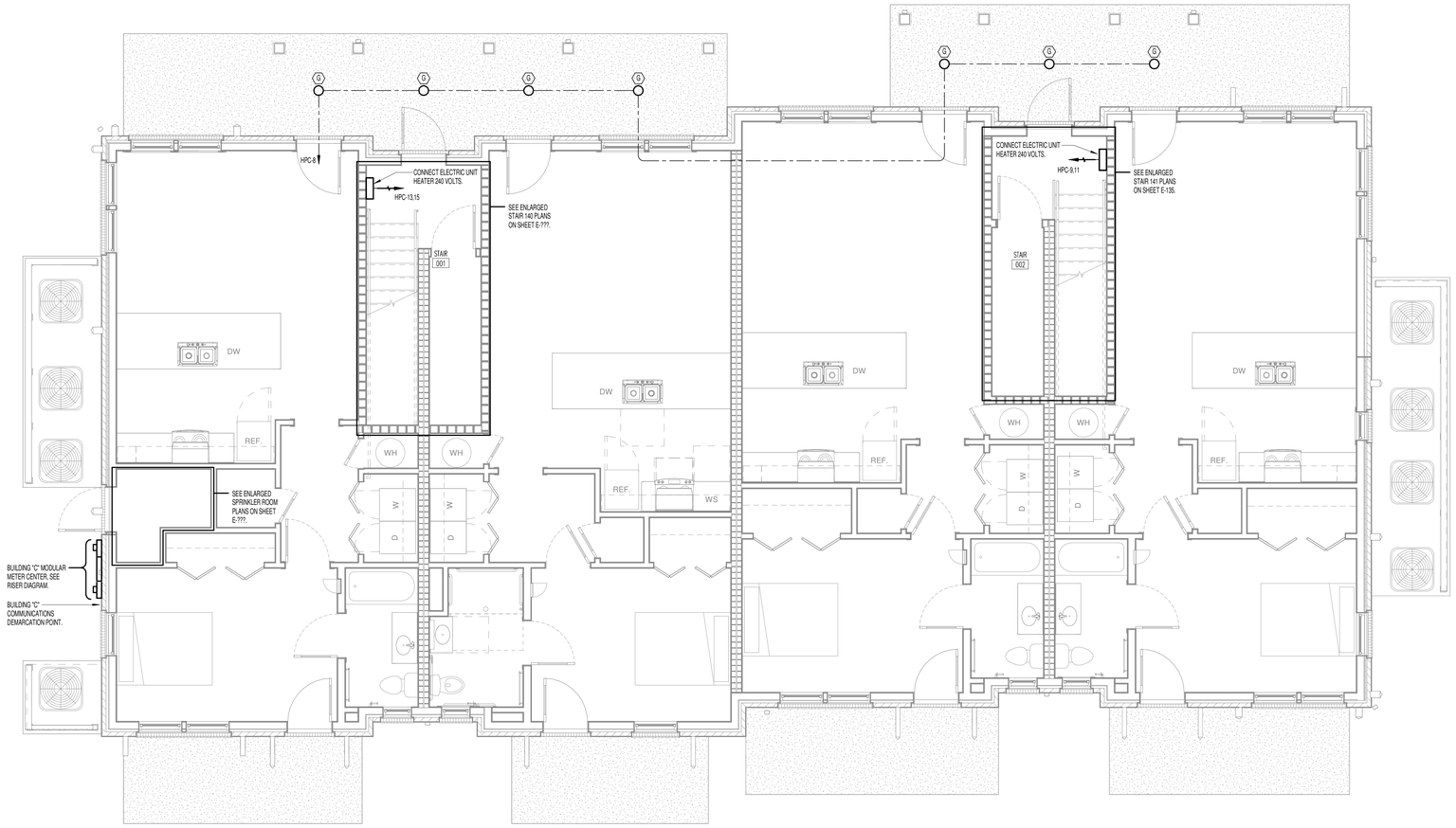
PIC	M. BUTLER
PM	M. BUTLER
PA	G. TAYLOR
Drawn By:	S.A. HUFFAKER
Checked By:	L.T.HEADLA/J.W.HOLIWAY

Sheet Description:

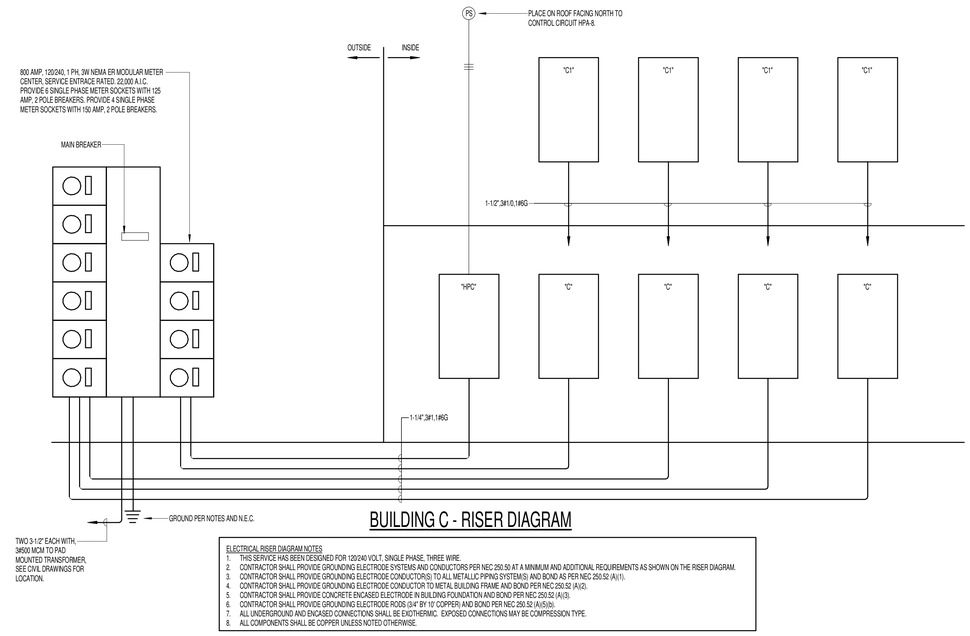
E-127

BUILDING B - ENLARGED COMMON SPACE ELECTRICAL PLAN

4/20/2022 12:56:50 PM



1 BUILDING C - OVERALL ELECTRICAL PLAN
1/4" = 1'-0"



BUILDING C - RISER DIAGRAM

ELECTRICAL RISER DIAGRAM NOTES
1. THIS SERVICE HAS BEEN DESIGNED FOR 120/240 VOLT, SINGLE PHASE, THREE WIRE.
2. CONTRACTOR SHALL PROVIDE GROUNDING ELECTRODE SYSTEMS AND CONDUCTORS PER NEC 250.50 AT A MINIMUM AND ADDITIONAL REQUIREMENTS AS SHOWN ON THE RISER DIAGRAM.
3. CONTRACTOR SHALL PROVIDE GROUNDING ELECTRODE CONDUCTOR(S) TO ALL METALLIC PIPING SYSTEM(S) AND BOND AS PER NEC 250.52 (A)(1).
4. CONTRACTOR SHALL PROVIDE GROUNDING ELECTRODE CONDUCTOR TO METAL BUILDING FRAME AND BOND PER NEC 250.52 (A)(2).
5. CONTRACTOR SHALL PROVIDE CONCRETE ENCASED ELECTRODE IN BUILDING FOUNDATION AND BOND PER NEC 250.52 (A)(3).
6. CONTRACTOR SHALL PROVIDE GROUNDING ELECTRODE RODS (3/4" BY 10' COPPER) AND BOND PER NEC 250.52 (A)(5)(b).
7. ALL UNDERGROUND AND ENCASED CONNECTIONS SHALL BE EXOTHERMIC. EXPOSED CONNECTIONS MAY BE COMPRESSION TYPE.
8. ALL COMPONENTS SHALL BE COPPER UNLESS NOTED OTHERWISE.

PANEL:	PANEL HPC			VOLTAGE:	120/240	PHASE:	1	WIRE:	3	BUS:	CU
BUS RATING:	125 AMP			MAIN:	NO - MLO			ENCLOSURE:	NEMA 1		
LUGS/PHASE:	#1			ENTRY:	BOTTOM	AIC:	10,000	MOUNTING:	SURFACE		
#	AMP	POLE	DESCRIPTION	LOAD	A	-	B	LOAD	DESCRIPTION	POLE	AMP	#
1	20	1	"SMP"	300.0	400.0	-	-	100.0	SPRINKLER RM LTG	1	20	2
3	20	1	HOT BOX HEATER	1,500.0	-	-	1,680.0	180.0	SPRINKLER RM RECPT.	1	20	4
5	20	2	EU HEATER	1,500.0	1,550.0	-	-	50.0	SPRINKLER BELL	1	20	6
7	|	|		1,500.0	-	-	2,000.0	500.0	OVRHEAD PORCH LTG	1	20	8
9	20	2	EU HEATER	1,500.0	2,100.0	-	-	600.0	STAIRWELL LIGHTING	1	20	10
11	|	|		1,500.0	-	-	1,900.0	400.0	SITE LIGHTING	1	20	12
13	20	2	EU HEATER	1,500.0	1,900.0	-	-	400.0	SITE LIGHTING	1	20	14
15	|	|		1,500.0	-	-	1,500.0	0.0	SPARE	1	20	16
17		2	SPARE	0.0	0.0	-	-	0.0	SPARE	1	20	18
19	|	|		0.0	-	-	0.0	0.0	SPARE	1	20	20
PROVIDE "LOCK-ON" DEVICE AT CIRCUIT #1.				TOTAL	5,950.0	-	7,080.0		VA	PROVIDE 4" BY 14" CABINET, SIMILAR TO SQUARE D CO. "LOAD CENTER" SERIES.		
				TOTAL CONNECTED			13,030.0		VA			

PANEL:	C			VOLTAGE:	120/240	PHASE:	1	WIRE:	3	BUS:	CU
BUS RATING:	125 AMP			MAIN:	NO - MLO			ENCLOSURE:	NEMA 1		
LUGS/PHASE:	#1			ENTRY:	BOTTOM	AIC:	10,000	MOUNTING:	RECESSED		
#	AMP	POLE	DESCRIPTION	LOAD	A	-	B	LOAD	DESCRIPTION	POLE	AMP	#
1	20AG	1	KITCHEN RECEPT.	540.0	4,540.0	-	-	4,000.0	RANGE	2	50	2
3	20AG	1	KITCHEN RECEPT.	360.0	-	-	4,360.0	4,000.0		|	|	4
5	20AG	1	REFRIGERATOR	800.0	3,300.0	-	-	2,500.0	DRYER	2	30	6
7	20AG	1	DISHWASHER	1,200.0	-	-	3,700.0	2,500.0		|	|	8
9	20AG	1	SPARE	0.0	2,250.0	-	-	2,250.0	WATER HEATER	2	30	10
11	20AG	1	HOOD/MICROWAVE	1,200.0	-	-	3,450.0	2,250.0		|	|	12
13	20AF	1	LIVING/KIT LIGHTS	200.0	2,900.0	-	-	2,700.0	INDOOR UNIT	2	40	14
15	20AF	1	BED LTS/SM DET/EF	300.0	-	-	3,000.0	2,700.0		|	|	16
17	20AF	1	BED RECEPTACLES	900.0	2,820.0	-	-	1,920.0	OUTDOOR UNIT	2	30	18
19	20AF	1	LIVING RECEPTACLES	900.0	-	-	2,820.0	1,920.0		|	|	20
21	20	1	BATH RECEPTACLES	180.0	1,380.0	-	-	1,200.0	WASH MACHINE	1	20AG	22
23	20AF	1	SPARE	0.0	-	-	-	0.0	SPARE	1	20AF	24
25	20AF	1	EXTERIOR RECEPT	360.0	360.0	-	-	0.0	SPARE	1	20AF	26
27	20	1	SPARE	800.0	-	-	800.0	0.0	SPARE	1	20AG	28
29	20	1	SPARE	800.0	800.0	-	-	0.0	SPARE	1	20AG	30
AF=AFCI TYPE; AG=AF/GF COMB.TYPE LOCK-ON DEVICE-15				TOTAL	18,350.0	-	18,130.0		VA	PROVIDE 4" BY 14" CABINET, SIMILAR TO SQUARE D CO. "LOAD CENTER" SERIES.		
				TOTAL CONNECTED			36,480.0		VA			

HVAC LOAD	
INDOOR UNIT FAN =	576.0 WATTS
INDOOR UNIT WATTS =	5,400.0 WATTS
OUTDOOR UNIT =	3,840.0 WATTS
HVAC TOTAL =	9,816.0 WATTS
OTHER LOADS	
LIGHTS/RECEPTACLES =	2,100.0 WATTS
SMALL APPLIANCE =	3,000.0 WATTS
RANGE =	8,000.0 WATTS
DRYER =	5,000.0 WATTS
WASHER =	1,200.0 WATTS
DISHWASHER =	1,200.0 WATTS
DISPOSAL =	0.0 WATTS
MICROWAVE =	1,000.0 WATTS
REFRIGERATOR =	1,000.0 WATTS
WATER HEATER=	4,500.0 WATTS
GARAGE DOOR =	0.0 WATTS
OTHER =	0.0 WATTS
OTHER TOTAL =	27,000.0 WATTS
OTHER TOTAL DEMAND =	16,800.0 WATTS
TOTAL DEMAND =	26,616.0 WATTS
DEMAND AMPS =	111 AMPS

PANEL:	C1			VOLTAGE:	120/240	PHASE:	1	WIRE:	3	BUS:	CU
BUS RATING:	150 AMP			MAIN:	NO - MLO			ENCLOSURE:	NEMA 1		
LUGS/PHASE:	#1/0			ENTRY:	BOTTOM	AIC:	10,000	MOUNTING:	RECESSED		
#	AMP	POLE	DESCRIPTION	LOAD	A	-	B	LOAD	DESCRIPTION	POLE	AMP	#
1	20AG	1	KITCHEN RECEPT.	540.0	4,540.0	-	-	4,000.0	RANGE	2	50	2
3	20AG	1	KITCHEN RECEPT.	360.0	-	-	4,360.0	4,000.0		|	|	4
5	20AG	1	REFRIGERATOR	800.0	3,300.0	-	-	2,500.0	DRYER	2	30	6
7	20AG	1	DISHWASHER	1,200.0	-	-	3,700.0	2,500.0		|	|	8
9	20AG	1	SPARE	0.0	2,250.0	-	-	2,250.0	WATER HEATER	2	30	10
11	20AG	1	HOOD/MICROWAVE	1,200.0	-	-	3,450.0	2,250.0		|	|	12
13	20AF	1	LIVING/KIT LIGHTS	350.0	5,750.0	-	-	5,400.0	INDOOR UNIT	2	70	14
15	20AF	1	BED LTS/SM DET/EF	300.0	-	-	5,700.0	5,400.0		|	|	16
17	20AF	1	BED RECEPTACLES	900.0	3,300.0	-	-	2,400.0	OUTDOOR UNIT	2	40	18
19	20AF	1	LIVING RECEPTACLES	1,080.0	-	-	3,480.0	2,400.0		|	|	20
21	20	1	BATH RECEPTACLES	180.0	1,380.0	-	-	1,200.0	WASH MACHINE	1	20AG	22
23	20AF	1	BED RECEPTACLES	900.0	-	-	900.0	0.0	SPARE	1	20	24
25	20AF	1	EXTERIOR RECEPT	540.0	540.0	-	-	0.0	SPARE	1	20	26
27	20AF	1	BED RECEPTACLES	720.0	-	-	720.0	0.0	SPARE	1	20AG	28
29	20	1	BATH RECEPTACLES	180.0	180.0	-	-	0.0	SPARE	1	20AG	30
AF=AFCI TYPE; AG=AF/GF COMB.TYPE LOCK-ON DEVICE-15				TOTAL	21,240.0	-	22,310.0		VA	PROVIDE 4" BY 14" CABINET, SIMILAR TO SQUARE D CO. "LOAD CENTER" SERIES.		
				TOTAL CONNECTED			43,550.0		VA			

HVAC LOAD	
INDOOR UNIT FAN =	576.0 WATTS
INDOOR UNIT WATTS =	10,800.0 WATTS
OUTDOOR UNIT =	4,800.0 WATTS
HVAC TOTAL =	16,176.0 WATTS
OTHER LOADS	
LIGHTS/RECEPTACLES =	4,470.0 WATTS
SMALL APPLIANCE =	3,000.0 WATTS
RANGE =	8,000.0 WATTS
DRYER =	5,000.0 WATTS
WASHER =	1,200.0 WATTS
DISHWASHER =	1,200.0 WATTS
DISPOSAL =	0.0 WATTS
MICROWAVE =	1,000.0 WATTS
REFRIGERATOR =	1,000.0 WATTS
WATER HEATER=	4,500.0 WATTS
GARAGE DOOR =	0.0 WATTS
OTHER =	0.0 WATTS
OTHER TOTAL =	29,370.0 WATTS
OTHER TOTAL DEMAND =	17,748.0 WATTS
TOTAL DEMAND =	33,924.0 WATTS
DEMAND AMPS =	141 AMPS

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McCarty Holsaple McCarty, Inc.
550 W. Main St., Suite 300
Knoxville, TN 37902
t 865.544.2000
www.mhminc.com

Consultants:

CIVIL ENGINEER:
HUDDLESTON-STEELE ENGINEERING INC.
2112 N.W. BROAD ST.
MURFREESBORO, TN 37129
615.893.4084

LANDSCAPE ARCHITECT:
RAGAN SMITH
100 E. VINE ST., STE 200
MURFREESBORO, TN 37130
615.546.6050

STRUCTURAL ENGINEER:
HAINES STRUCTURAL GROUP
800 S. GAY ST., STE 1750
KNOXVILLE TN, 37929
865.329.9920

MECHANICAL & PLUMBING ENGINEER:
FACILITY SYSTEMS CONSULTANTS
713 S. CENTRAL ST., STE 101
KNOXVILLE TN, 37902
865.246.0164

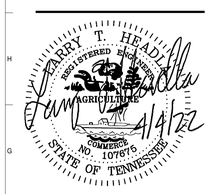
ELECTRICAL ENGINEER:
FACILITY SYSTEMS CONSULTANTS
713 S. CENTRAL ST., STE 101
KNOXVILLE TN, 37902
865.246.0164

Project Information:

21026

MHA Parkside Housing

550 W. MAIN ST. KNOXVILLE, TN 37919



Consultant:

FACILITY SYSTEMS CONSULTANTS, LLC
713 South Central Street, Suite 101
Knoxville, Tennessee 37902
Phone: (865) 246-0164
Fax: (865) 246-1584

#	ISSUE	DATE

Issue Date:	04.07.2022
PIC	M. BUTLER
PM	M. BUTLER
PA	G. TAYLOR
Drawn By:	S.A. HUFFAKER
Checked By:	L.T.HEADLA/J.W.HOLIWAY

Sheet Description:

E-130

BUILDING C - OVERALL ELECTRICAL PLAN

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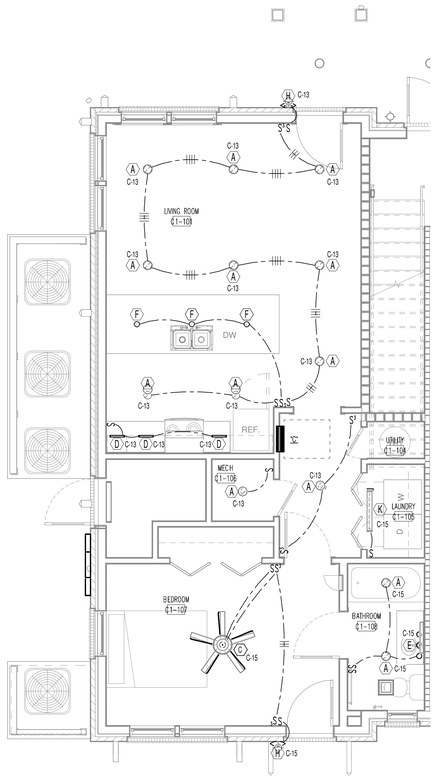
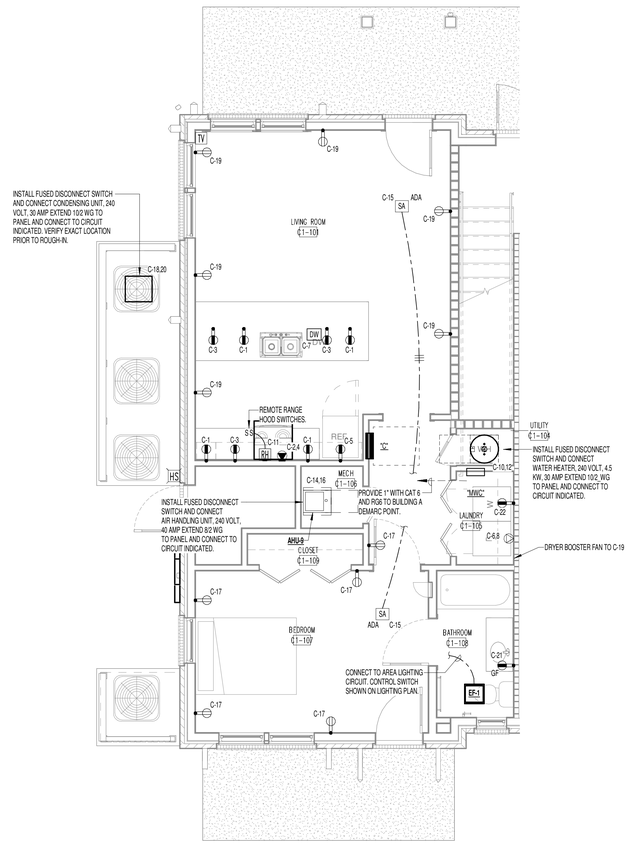


1 BUILDING C - 1 BEDROOM UFAS UNIT C1 - LIGHTING PLAN
1/4" = 1'-0"



2 BUILDING C - 1 BEDROOM UFAS UNIT C1 - POWER & COMMUNICATIONS PLAN
1/4" = 1'-0"

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McCarty Holsaple McCarty, Inc.
550 W. Main St., Suite 300
Knoxville, TN 37902
t 865.544.2000
www.mhminc.com

Consultants:

CIVIL ENGINEER:

HUDDLESTON-STEELE ENGINEERING INC.
2112 N.W. BROAD ST.
MURFREESBORO, TN 37129
615.893.4084

LANDSCAPE ARCHITECT:

RAGAN SMITH
100 E. VINE ST., STE 200
MURFREESBORO, TN 37130
615.546.6050

STRUCTURAL ENGINEER:

HAINES STRUCTURAL GROUP
800 S. GAY ST., STE 1750
KNOXVILLE TN, 37929
865.329.9920

MECHANICAL & PLUMBING ENGINEER:

FACILITY SYSTEMS CONSULTANTS
713 S. CENTRAL ST., STE 101
KNOXVILLE TN, 37902
865.246.0164

ELECTRICAL ENGINEER:

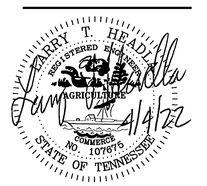
FACILITY SYSTEMS CONSULTANTS
713 S. CENTRAL ST., STE 101
KNOXVILLE TN, 37902
865.246.0164

Project Information:

21026

MHA Parkside Housing

550 W. MAIN ST. KNOXVILLE, TN 37919



Consultant:

FACILITY SYSTEMS CONSULTANTS, LLC
713 South Central Street, Suite 101
Knoxville, Tennessee 37902
Phone: (865) 246-0144
Fax: (865) 246-1084

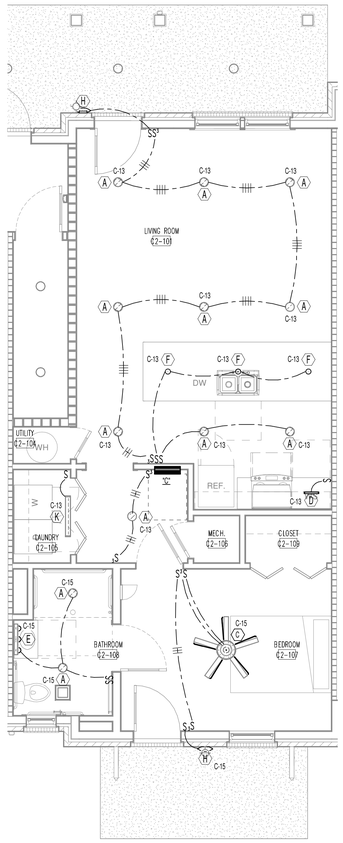
#	ISSUE	DATE

Issue Date:	04.07.2022
PIC	M. BUTLER
PM	M. BUTLER
PA	G. TAYLOR
Drawn By:	S.A. HUFFAKER
Checked By:	L.T.HEADLA/J.W.HOLIWAY

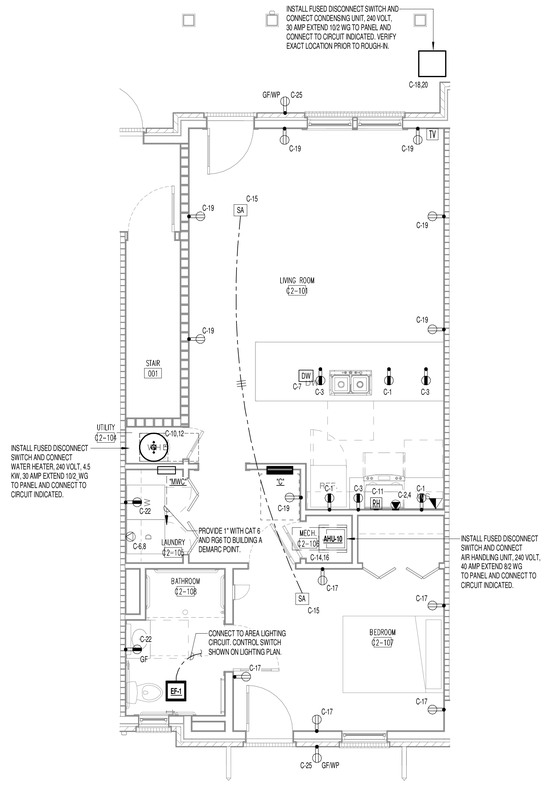
Sheet Description:

E-131

BUILDING C - 1 BEDROOM UNIT C1 (UFAS) - ELECTRICAL PLAN



1 BUILDING C - 1 BEDROOM UNIT C2 - LIGHTING PLAN
1/4" = 1'-0"



2 BUILDING C - 1 BEDROOM UNIT C2 - POWER & COMMUNICATIONS PLAN
1/4" = 1'-0"

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McCarty Holsaple McCarty, Inc.
550 W. Main St., Suite 300
Knoxville, TN 37902
t 865.544.2000
www.mhminc.com

Consultants:

CIVIL ENGINEER:

HUDDLESTON-STEELE ENGINEERING INC.
2112 N.W. BROAD ST.
MURFREESBORO, TN 37129
615.893.4084

LANDSCAPE ARCHITECT:

RAGAN SMITH
100 E. VINE ST., STE 200
MURFREESBORO, TN 37130
615.546.6050

STRUCTURAL ENGINEER:

HAINES STRUCTURAL GROUP
800 S. GAY ST., STE 1750
KNOXVILLE TN, 37929
865.329.9920

MECHANICAL & PLUMBING ENGINEER:

FACILITY SYSTEMS CONSULTANTS
713 S. CENTRAL ST., STE 101
KNOXVILLE TN, 37902
865.246.0164

ELECTRICAL ENGINEER:

FACILITY SYSTEMS CONSULTANTS
713 S. CENTRAL ST., STE 101
KNOXVILLE TN, 37902
865.246.0164

Project Information:

21026

MHA Parkside Housing

550 W. MAIN ST. KNOXVILLE, TN 37919

LARRY T. HEADLA REGISTERED ENGINEER AGRICULTURE COMMERCE No. 107675 STATE OF TENNESSEE
4/4/22

Consultant:

FACILITY SYSTEMS CONSULTANTS, LLC
713 South Central Street, Suite 101
Knoxville, Tennessee 37902
Phone: (865) 246-0164
Fax: (865) 246-1544

#	ISSUE	DATE

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PIC	M. BUTLER
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Sheet Description:

E-132

BUILDING C - 1 BEDROOM UNIT C2 - ELECTRICAL PLAN

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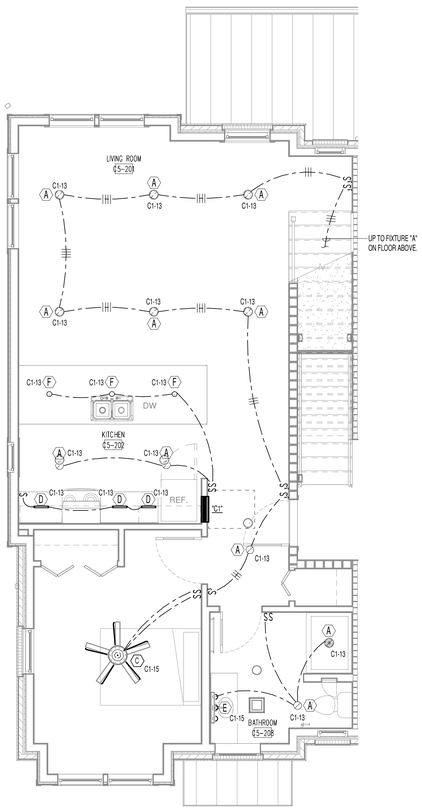
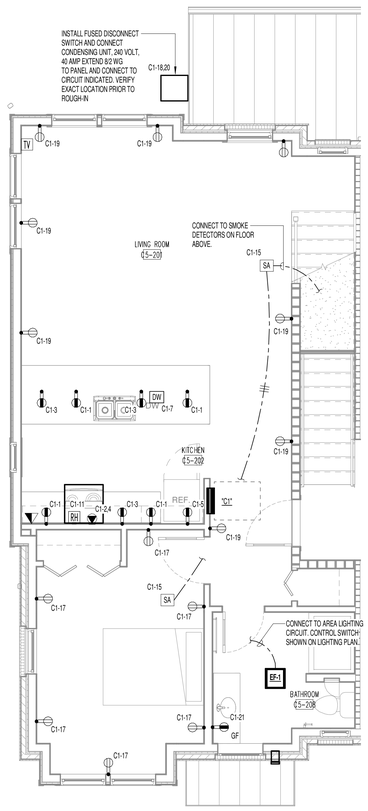
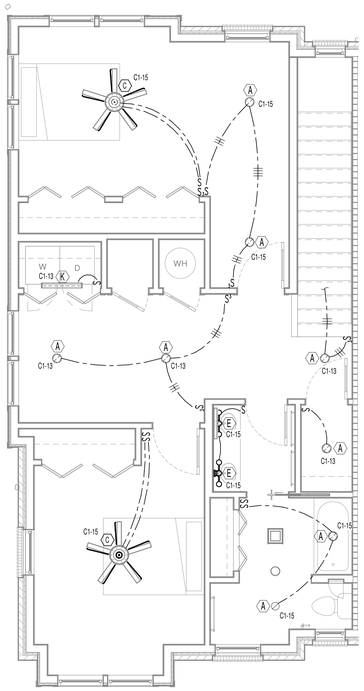


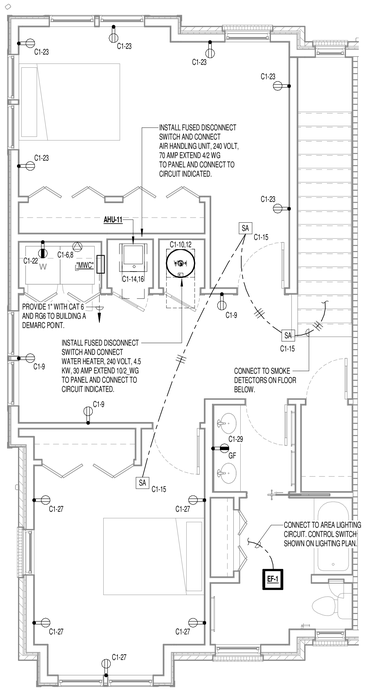
1 BUILDING C - 3 BEDROOM UNIT C5 - SECOND FLOOR LIGHTING PLAN
1/4" = 1'-0"



2 BUILDING C - 3 BEDROOM UNIT C5 - SECOND FLOOR POWER & COMMUNICATIONS PLAN
1/4" = 1'-0"



3 BUILDING C - 3 BEDROOM UNIT C5 - THIRD FLOOR LIGHTING PLAN
1/4" = 1'-0"



4 BUILDING C - 3 BEDROOM UNIT C5 - THIRD FLOOR POWER & COMMUNICATIONS PLAN
1/4" = 1'-0"

4/20/2022 12:57:19 PM

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550 W. Main St., Suite 300
Knoxville, TN 37902
t 865.544.2000
www.mhminc.com

Consultants:

CIVIL ENGINEER:

HUDDLESTON-STEELE ENGINEERING INC.
2112 N.W. BROAD ST.
MURFREESBORO, TN 37129
615.893.4084

LANDSCAPE ARCHITECT:

RAGAN SMITH
100 E. VINE ST., STE 200
MURFREESBORO, TN 37130
615.546.6050

STRUCTURAL ENGINEER:

HAINES STRUCTURAL GROUP
800 S. GAY ST., STE 1750
KNOXVILLE TN, 37929
865.329.9920

MECHANICAL & PLUMBING ENGINEER:

FACILITY SYSTEMS CONSULTANTS
713 S. CENTRAL ST., STE 101
KNOXVILLE TN, 37902
865.246.0164

ELECTRICAL ENGINEER:

FACILITY SYSTEMS CONSULTANTS
713 S. CENTRAL ST., STE 101
KNOXVILLE TN, 37902
865.246.0164

Project Information:

21026

MHA Parkside Housing
550 W. MAIN ST. KNOXVILLE, TN 37919

LARRY T. HEADLA — REGISTERED ENGINEER — AGRICULTURE — No. 107675 — STATE OF TENNESSEE — 4/4/22

Consultant:

FACILITY SYSTEMS CONSULTANTS, LLC
713 South Central Street, Suite 101
Knoxville, Tennessee 37902
Phone (865) 246-0164
Fax (865) 246-1984

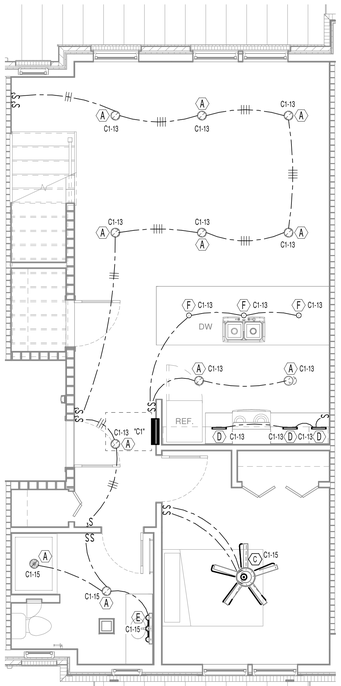
#	ISSUE	DATE

Issue Date:	04.07.2022
PIC	M. BUTLER
PM	M. BUTLER
PA	G. TAYLOR
Drawn By:	S.A. HUFFAKER
Checked By:	L.T.HEADLA/J.W.HOLIWAY

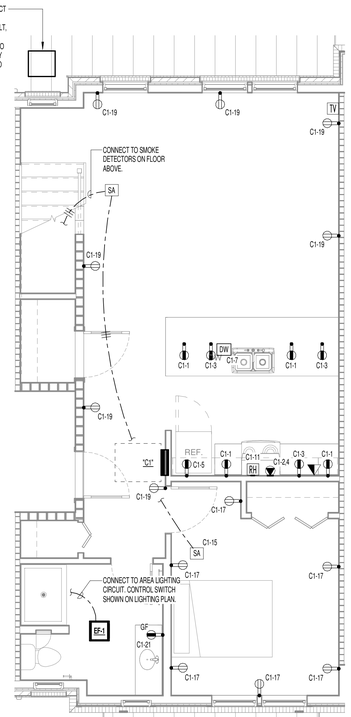
Sheet Description:

E-133

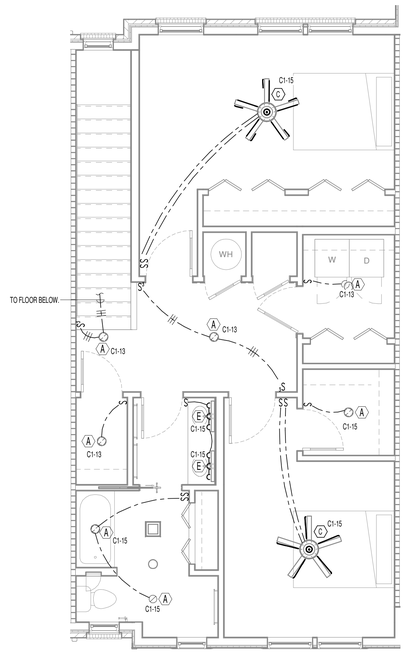
BUILDING C - 3 BEDROOM UNIT C5 - ELECTRICAL PLAN



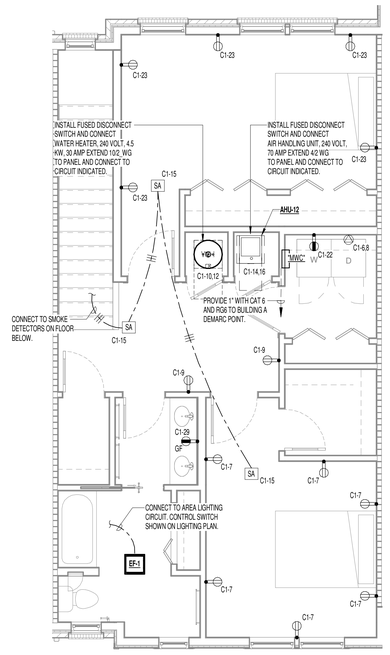
1 BUILDING C - 3 BEDROOM UNIT C6 - SECOND FLOOR LIGHTING PLAN
1/4" = 1'-0"



2 BUILDING C - 3 BEDROOM UNIT C6 - SECOND FLOOR POWER & COMMUNICATIONS PLAN
1/4" = 1'-0"



3 BUILDING C - 3 BEDROOM UNIT C6 - THIRD FLOOR LIGHTING PLAN
1/4" = 1'-0"



4 BUILDING C - 3 BEDROOM UNIT C6 - THIRD FLOOR POWER & COMMUNICATIONS PLAN
1/4" = 1'-0"

4/20/2022 12:57:28 PM

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550 W. Main St., Suite 300
Knoxville, TN 37902
t 865.544.2000
www.mhminc.com

Consultants:

CIVIL ENGINEER:

HUDDLESTON-STEELE ENGINEERING INC.
2112 N.W. BROAD ST.
MURFREESBORO, TN 37129
615.893.4084

LANDSCAPE ARCHITECT:

RAGAN SMITH
100 E. VINE ST., STE 200
MURFREESBORO, TN 37130
615.546.6050

STRUCTURAL ENGINEER:

HAINES STRUCTURAL GROUP
800 S. GAY ST., STE 1750
KNOXVILLE TN, 37929
865.329.9920

MECHANICAL & PLUMBING ENGINEER:

FACILITY SYSTEMS CONSULTANTS
713 S. CENTRAL ST., STE 101
KNOXVILLE TN, 37902
865.246.0164

ELECTRICAL ENGINEER:

FACILITY SYSTEMS CONSULTANTS
713 S. CENTRAL ST., STE 101
KNOXVILLE TN, 37902
865.246.0164

Project Information:

21026

MHA Parkside Housing

550 W. MAIN ST. KNOXVILLE, TN 37919

Consultant:

FACILITY SYSTEMS CONSULTANTS, LLC
713 South Central Street, Suite 101
Knoxville, Tennessee 37902
Phone: (865) 246-0164
Fax: (865) 246-1544

#	ISSUE	DATE

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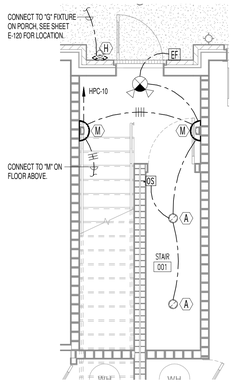
PIC	M. BUTLER
PM	M. BUTLER
PA	G. TAYLOR
Drawn By:	S.A. HUFFAKER
Checked By:	L.T.HEADLA/J.W.HOLIWAY

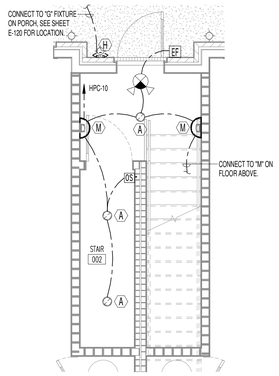
Sheet Description:

E-134

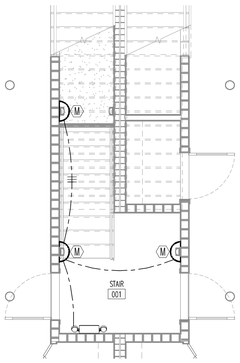
BUILDING C - 3 BEDROOM UNIT C6 - ELECTRICAL PLAN



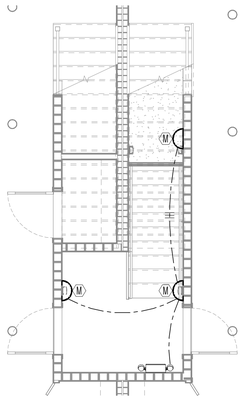
1 BUILDING C - ENLARGED LEVEL 1 STAIR 100 ELECTRICAL PLAN
1/4" = 1'-0"



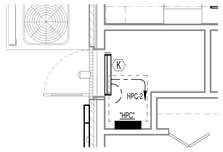
2 BUILDING C - ENLARGED LEVEL 1 STAIR 101 ELECTRICAL PLAN
1/4" = 1'-0"



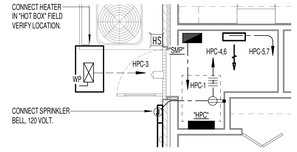
3 BUILDING C - ENLARGED LEVEL 2 STAIR 100 ELECTRICAL PLAN
1/4" = 1'-0"



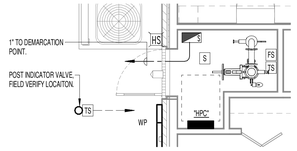
4 BUILDING C - ENLARGED LEVEL 2 STAIR 101 ELECTRICAL PLAN
1/4" = 1'-0"



5 BUILDING C - ENLARGED SPRINKLER ROOM LIGHTING PLAN
1/4" = 1'-0"



6 BUILDING C - ENLARGED SPRINKLER ROOM POWER PLAN
1/4" = 1'-0"



7 BUILDING C - ENLARGED SPRINKLER ROOM COMMUNICATIONS & FIRE ALARM PLAN
1/4" = 1'-0"

4/20/2022 12:57:49 PM

MHM

McCarty Holsaple McCarty, Inc.
550 W. Main St., Suite 300
Knoxville, TN 37902
t 865.544.2000
www.mhminc.com

Consultants:

CIVIL ENGINEER:

HUDDLESTON-STEELE ENGINEERING INC.
2112 N.W. BROAD ST.
MURFREESBORO, TN 37129
615.893.4084

LANDSCAPE ARCHITECT:

RAGAN SMITH
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MURFREESBORO, TN 37130
615.546.6050

STRUCTURAL ENGINEER:

HAINES STRUCTURAL GROUP
800 S. GAY ST., STE 1750
KNOXVILLE TN, 37929
865.329.9920

MECHANICAL & PLUMBING ENGINEER:

FACILITY SYSTEMS CONSULTANTS
713 S. CENTRAL ST., STE 101
KNOXVILLE TN, 37902
865.246.0164

ELECTRICAL ENGINEER:

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KNOXVILLE TN, 37902
865.246.0164

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LARRY T. HEADLA — REGISTERED ENGINEER — AGRICULTURE — COMMERCE — No. 107675 — STATE OF TENNESSEE
4/1/22

Consultant:

FACILITY SYSTEMS CONSULTANTS, LLC
713 South Central Street, Suite 101
Knoxville, Tennessee 37902
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Fax: (865) 246-1084

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Sheet Description:

E-135

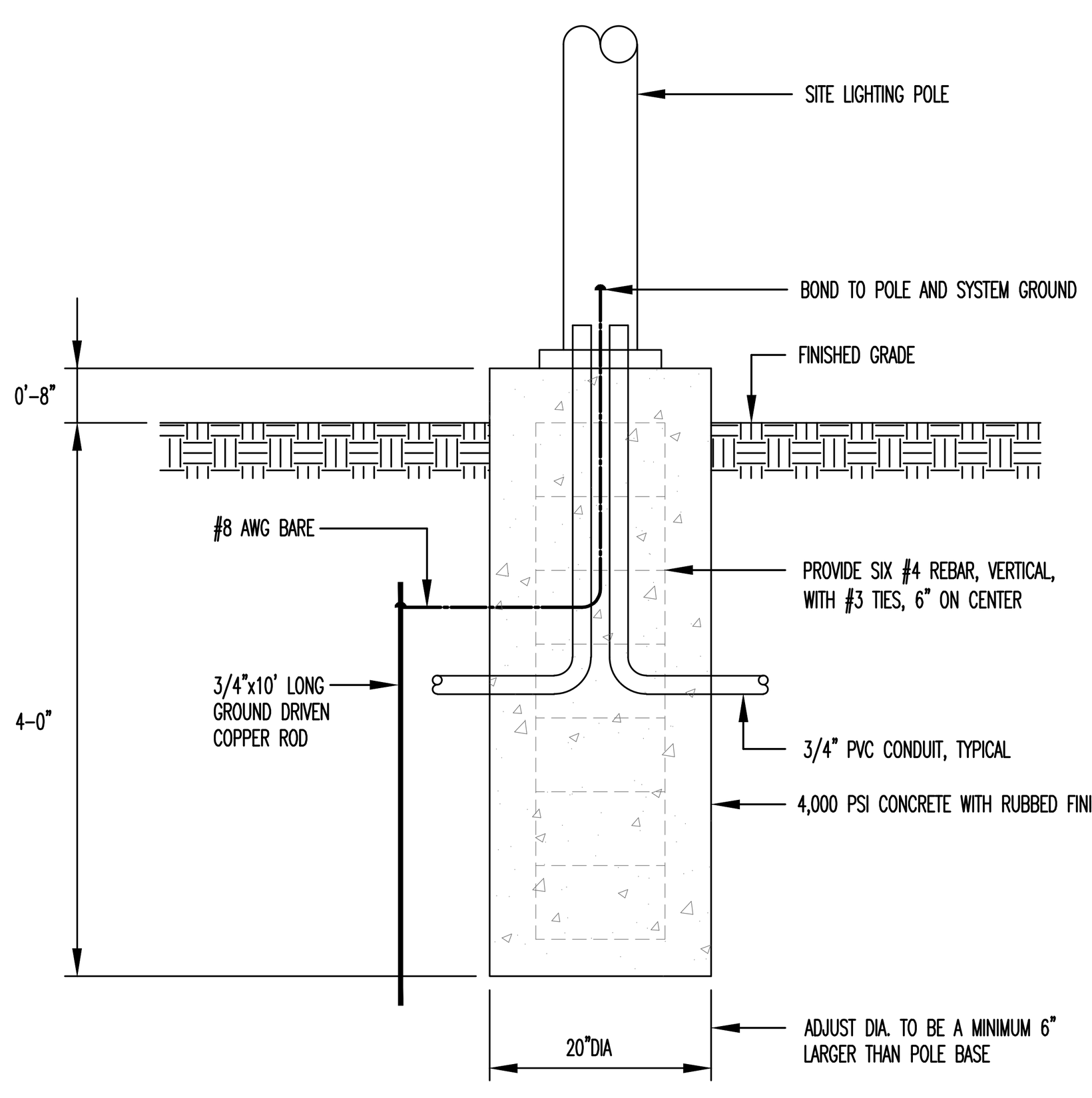
BUILDING C - ENLARGED COMMON SPACE ELECTRICAL PLAN

FIXTURE SCHEDULE								
SYM	CATALOG NUMBER		PERFORMANCE			QUTY	MOUNTING	DESCRIPTION
	COMPANY	MODEL NUMBER	WATTS	TEMP IN K	DELIVERED LUMENS			
SA	SIGNIFY	FIXTURE - ECF-S-32L-700-WW-G2-SF-4-UNV-BL-? MS-A-120(POLE MOUNTED MOTION SENSOR) POLE: SRS-16'-3"-T2-?	73	3000K	9,034	4	16' POLE	ONE POLE MOUNTED AREA LED LIGHT, TYPE IV DISTRIBUTION, 5% TILT, BI-LEVEL FUNCTIONALITY, POLE MOUNTED MOTION SENSOR, UNIVERSAL VOLTAGE (120-277V)
SB	SIGNIFY	FIXTURE - ECF-S-32L-530-WW-G2-SF-2-UNV-BL-? MS-A-120(POLE MOUNTED MOTION SENSOR) POLE: SRS-16'-3"-T2-?	56	3000K	9,034	5	16' POLE	ONE POLE MOUNTED AREA LED LIGHT, TYPE II DISTRIBUTION, 5% TILT, BI-LEVEL FUNCTIONALITY, POLE MOUNTED MOTION SENSOR, UNIVERSAL VOLTAGE (120-277V)
SC	SIGNIFY	FIXTURE - ECF-S-32L-530-WW-G2-SF-3-UNV-BL-? MS-A-120(POLE MOUNTED MOTION SENSOR) POLE: SRS-16'-3"-T2-?	56	3000K	9,034	9	16' POLE	ONE POLE MOUNTED AREA LED LIGHT, TYPE III DISTRIBUTION, 5% TILT, BI-LEVEL FUNCTIONALITY, POLE MOUNTED MOTION SENSOR, UNIVERSAL VOLTAGE (120-277V)
SD	HOLOPHANE	FIXTURE - GV100HP00XX3NXX **NO SUBSTITUTIONS ALLOWED**	128	3000K	9500	8	12' POLE	RESIDENTIAL STREET DECORATIVE LIGHTING FIXTURE, TYPE III DISTRIBUTION, 100W CLEAR HPS; 12' DIRECT BURIED, FLUTED POLE WITH ARLEN BASE PER MURFREESBORO ELECTRIC DEPARTMENT STANDARDS.
SE	HYDREL LIGHTING	HSL13-12INCH-LED-40K-MVOLT-L-BB-BRB	11	4000K	400	10	WALL	STEP LIGHT
G	CONTECH LIGHTING	R2RM140KCMVDS-CP TRIM: CST2322L-???	10	4000K	1,100	48	RECESSED	EXTERIOR DOWNLIGHT WITH BLACK TRIM.

NOTES:
1. FINISH SHALL BE SELECTED BY ARCHITECT, NOTED BY ?? IN MODEL NO.
2. PROVIDE CONCRETE BASE PER DETAIL.
3. ALL FIXTURES HAVE MIN CRI OF 70.
4. ALL FIXTURES SHALL BE FURNISHED COMPLETE WITH ELECTRICAL DRIVERS WITH MAXIMUM 10% THP.

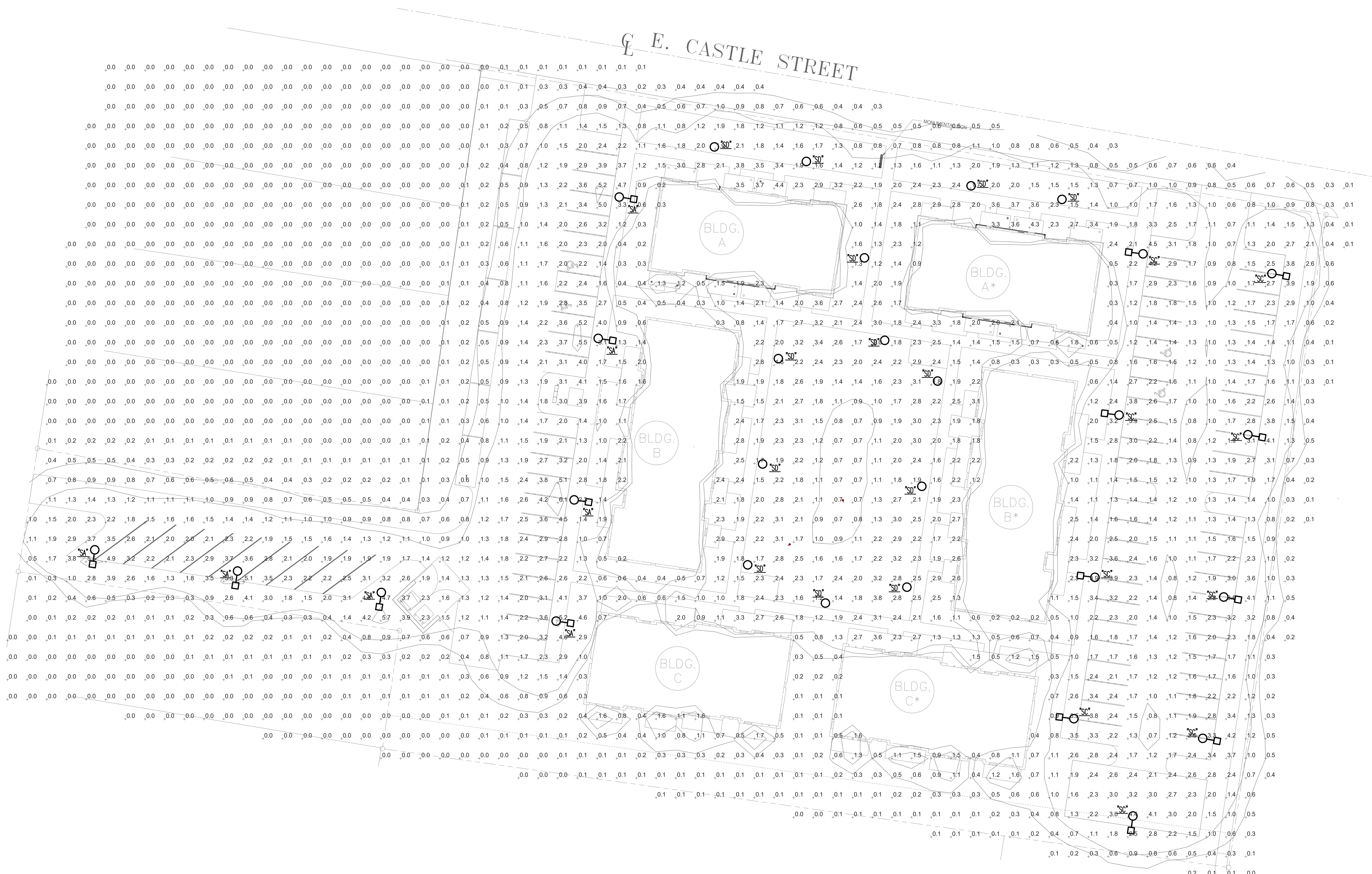
LEGEND

SYMBOL:	DESCRIPTION:
▭–○	FIXTURE TYPE "SA", "SB" OR "SC", AREA/PARKING LOT LIGHTING FIXTURE, SEE FIXTURE SCHEDULE.
○	FIXTURE TYPE "SD", RESIDENTIAL STREET DECORATIVE LIGHTING FIXTURE, SEE FIXTURE SCHEDULE.
⌑	FIXTURE TYPE "H", BUILDING MOUNTED EXTERIOR DECORATIVE LIGHTING FIXTURE, SEE FIXTURE SCHEDULE.



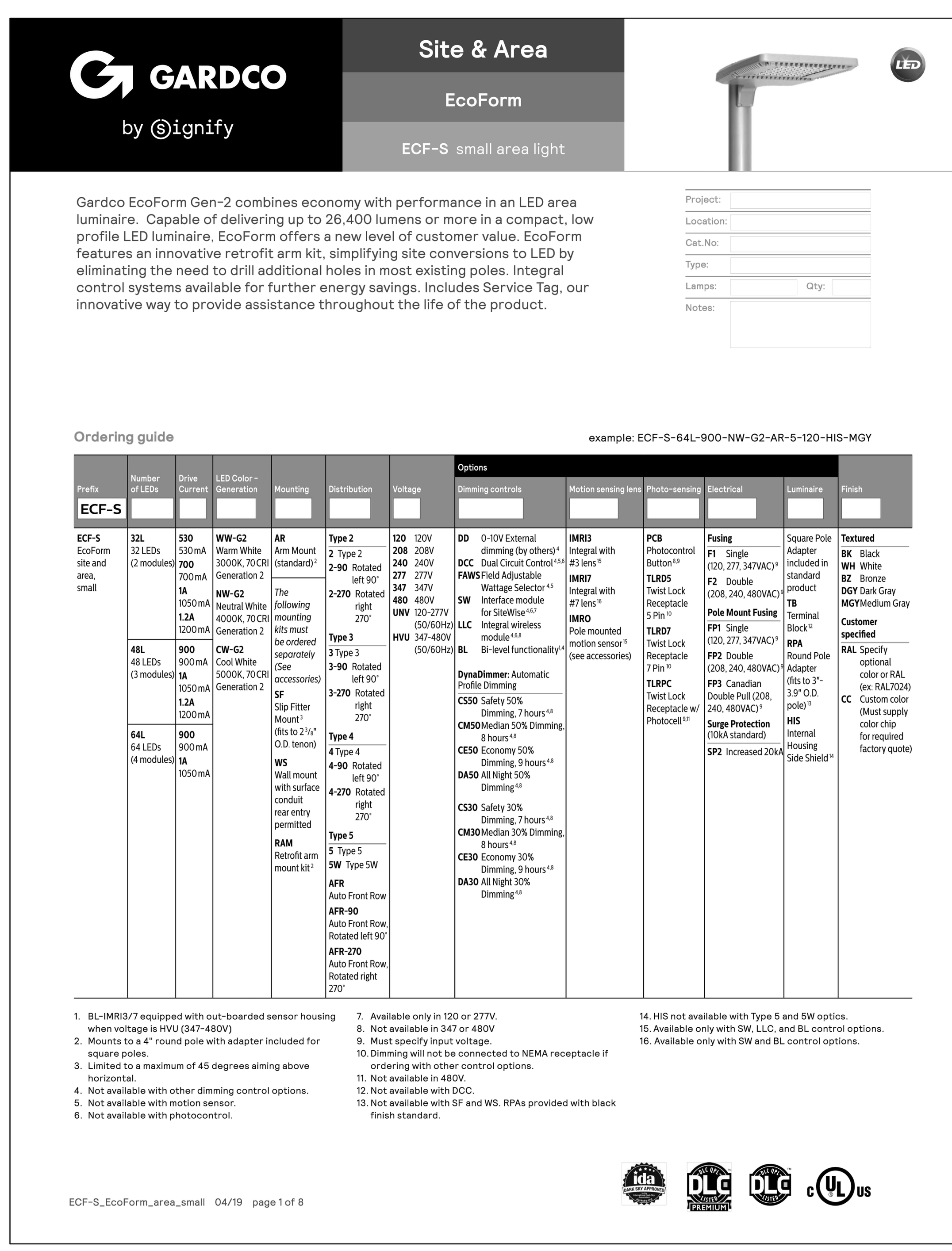
POLE BASE DETAIL

NO SCALE USE FOR "SA", "SB" & "SC"

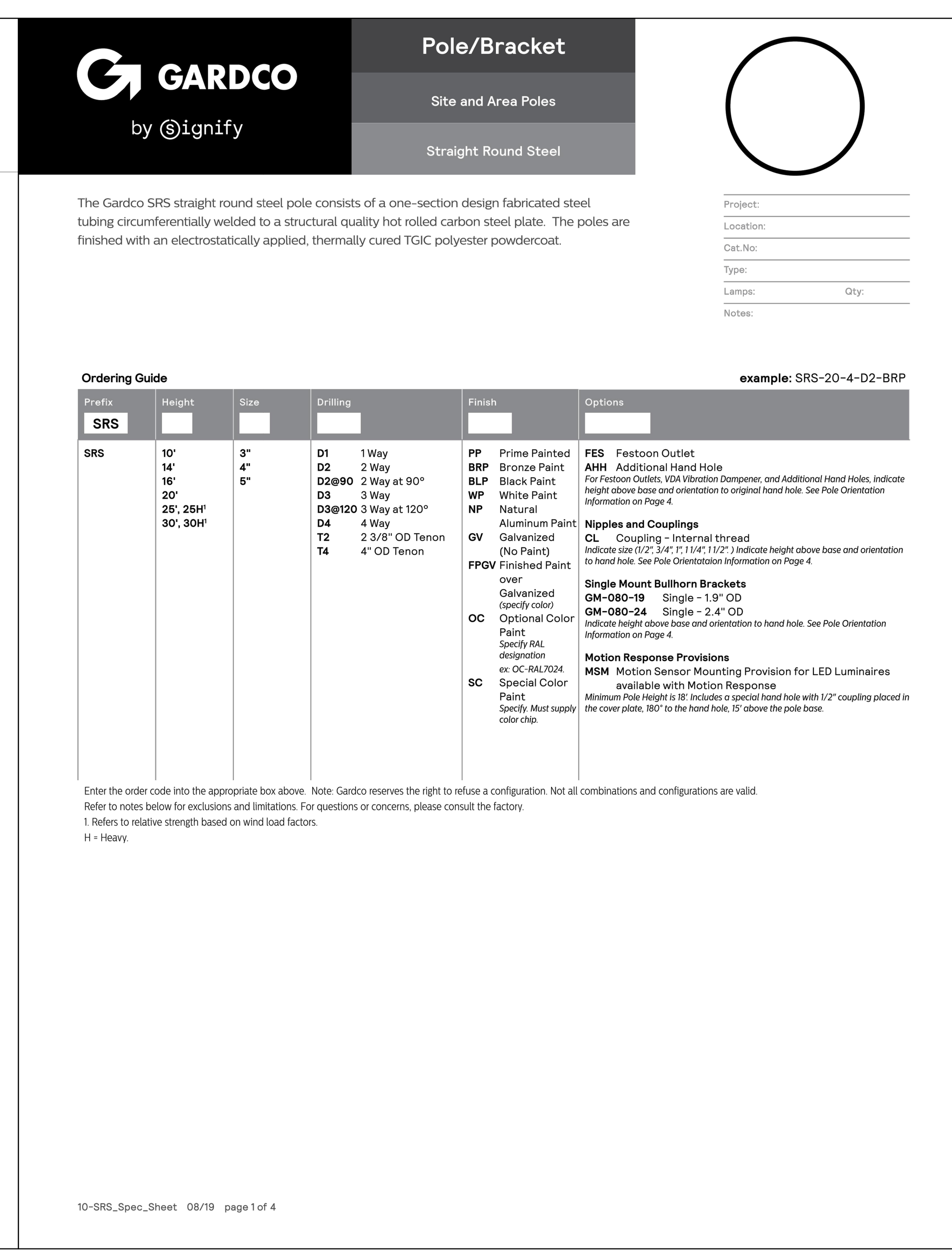


SITE PHOTOMETRIC PLAN

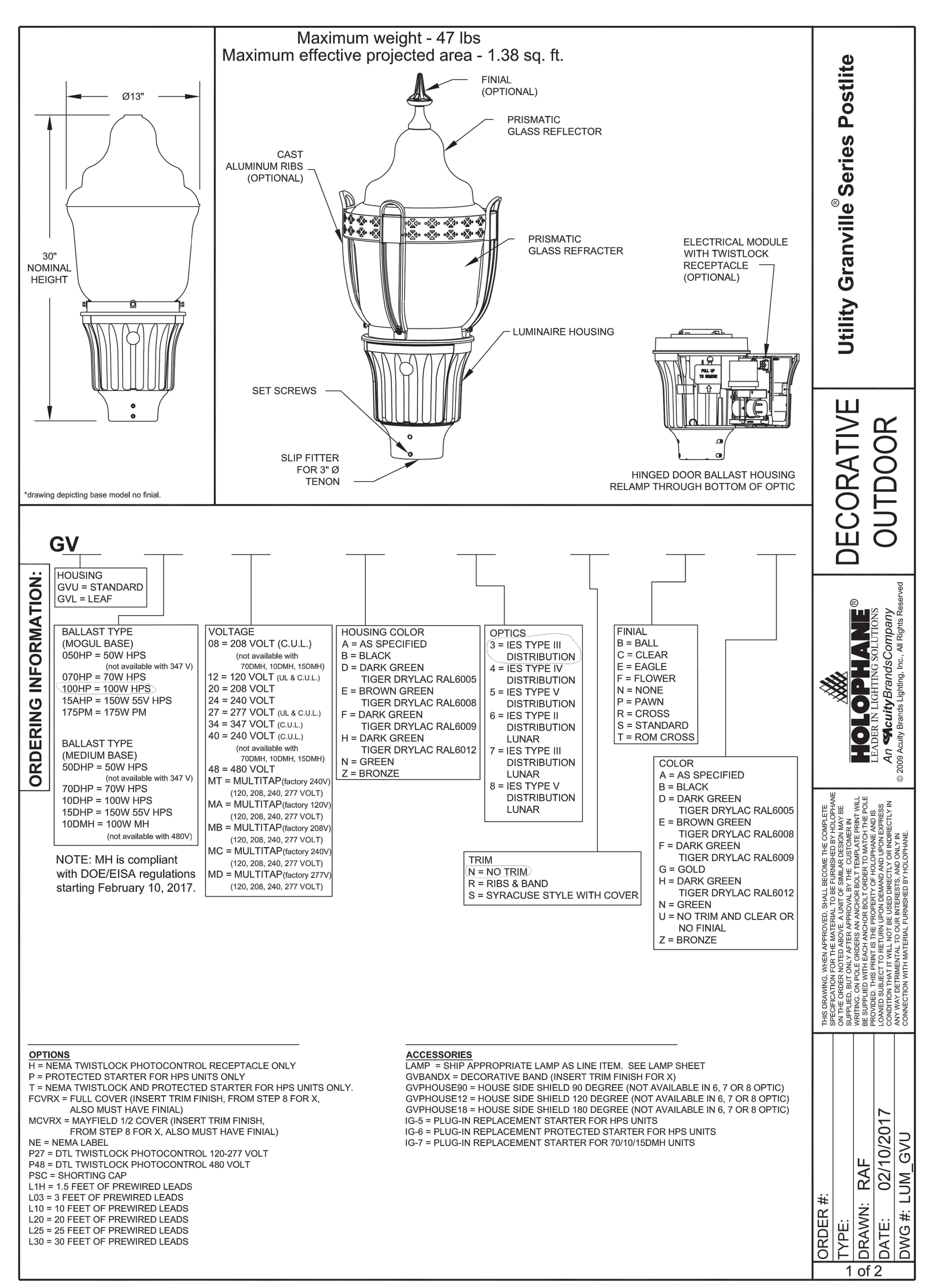
SCALE: 1" = 30'



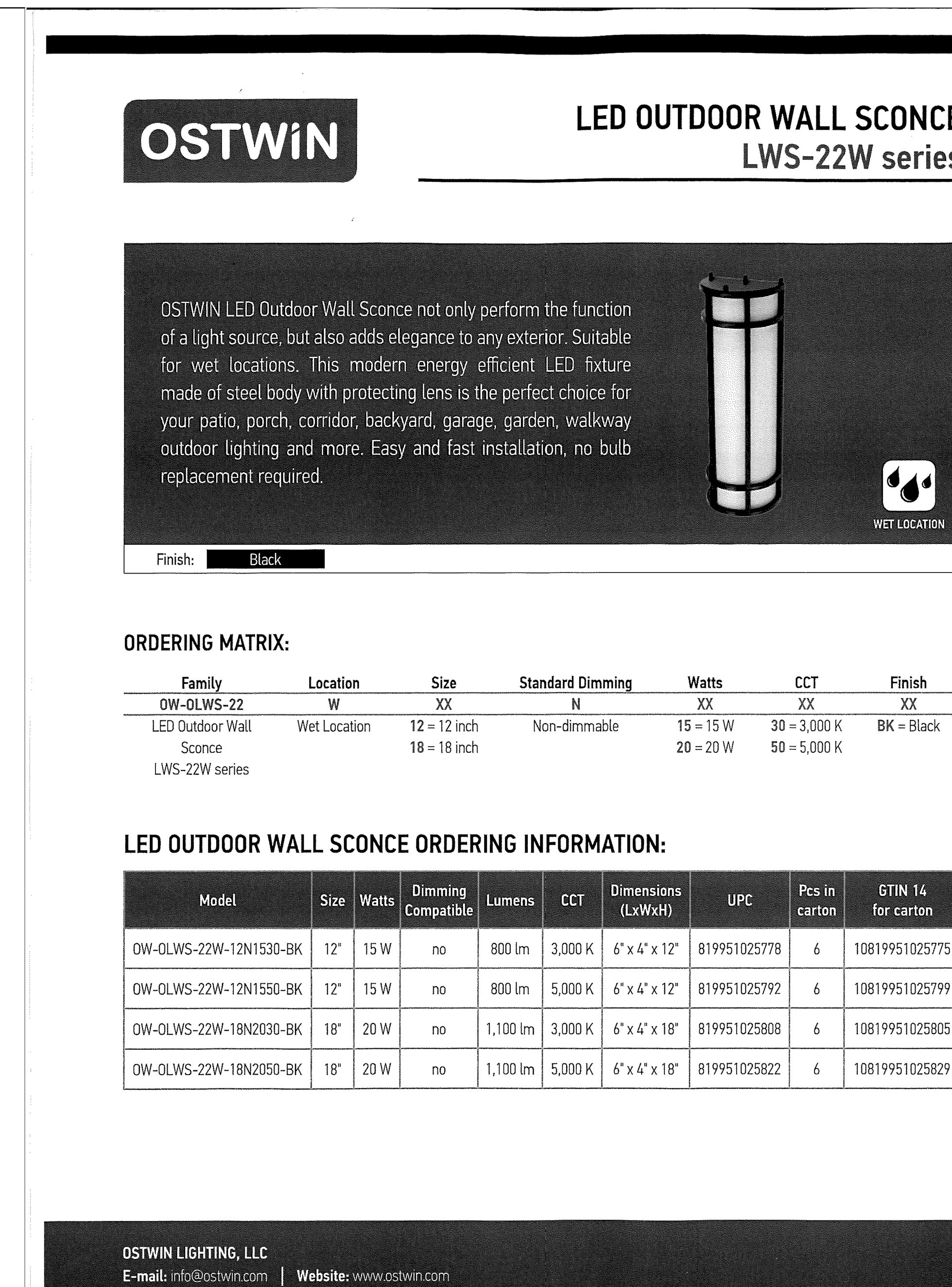
FIXTURE "SA"/"SB"/"SC"



FIXTURE POLE



FIXTURE "SD"



FIXTURE "H"

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McCarty Holsaple McCarty, Inc.
550 W. Main St., Suite 300
Knoxville, TN 37902
t 865.544.2000
www.mhminc.com

Consultants:

CIVIL ENGINEER:
HUDDLESTON-STEELE ENGINEERING INC.
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800 S. GAY ST., STE 1750
KNOXVILLE TN, 37929
865.329.9920

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FACILITY SYSTEMS CONSULTANTS
713 S. CENTRAL ST., STE 101
KNOXVILLE TN, 37902
865.246.0164

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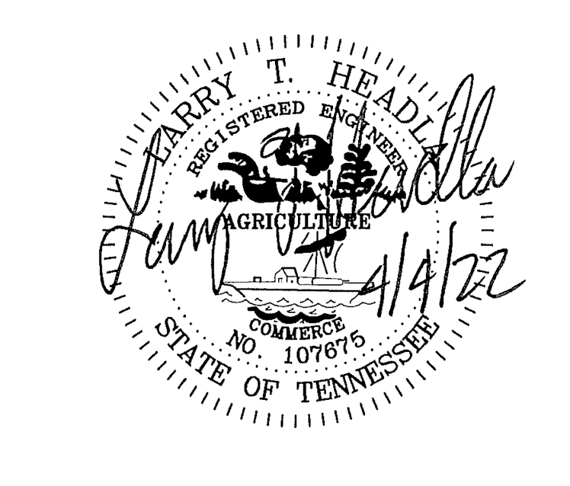
MURFREESBORO, TN 37130

Seal:



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Drawn By:	S. HUFFAKER
Checked By:	L. HEADLA

Sheet Description:

SITE PHOTOMETRIC PLAN

EP100

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FIXTURE SCHEDULE								
SYM	LOG NUMBER		PERFORMANCE			QUTY	MOUNTING	DESCRIPTION
	COMPANY	MODEL NUMBER	WATTS	TEMP IN K	DELIVERED LUMENS			
SA	SIGNIFY	FIXTURE - ECF-S-32L-700-WW-G2-SF-4-UNV-BL-? MS-A-120/(POLE MOUNTED MOTION SENSOR) POLE: SRS-16'-3"-T2-?	73	3000K	9,034	4	16' POLE	ONE POLE MOUNTED AREA LED LIGHT, TYPE IV DISTRIBUTION, 5% TILT, BI-LEVEL FUNCTIONALITY, POLE MOUNTED MOTION SENSOR, UNIVERSAL VOLTAGE (120-277V)
SB	SIGNIFY	FIXTURE - ECF-S-32L-530-WW-G2-SF-2-UNV-BL-? MS-A-120/(POLE MOUNTED MOTION SENSOR) POLE: SRS-16'-3"-T2-?	56	3000K	9,034	5	16' POLE	ONE POLE MOUNTED AREA LED LIGHT, TYPE II DISTRIBUTION, 5% TILT, BI-LEVEL FUNCTIONALITY, POLE MOUNTED MOTION SENSOR, UNIVERSAL VOLTAGE (120-277V)
SC	SIGNIFY	FIXTURE - ECF-S-32L-530-WW-G2-SF-3-UNV-BL-? MS-A-120/(POLE MOUNTED MOTION SENSOR) POLE: SRS-16'-3"-T2-?	56	3000K	9,034	9	16' POLE	ONE POLE MOUNTED AREA LED LIGHT, TYPE III DISTRIBUTION, 5% TILT, BI-LEVEL FUNCTIONALITY, POLE MOUNTED MOTION SENSOR, UNIVERSAL VOLTAGE (120-277V)
SD	HOLOPHANE	FIXTURE - GV100HP030KNXX **NO SUBSTITUTIONS ALLOWED**	128	3000K	9500	8	12' POLE	RESIDENTIAL STREET DECORATIVE LIGHTING FIXTURE, TYPE III DISTRIBUTION, 100W CLEAR HPS, 12' DIRECT BURIED, FLUTED POLE WITH ARLEN BASE PER MURFREESBORO ELECTRIC DEPARTMENT STANDARDS.
SE	HYDREL LIGHTING	HSL13-12INCH-LED-40K-MVOLT-L-BB-BRB	11	4000K	400	10	WALL	STEP LIGHT
G	CONTECH LIGHTING	R2RM140KCMVDS-CP TRIM: CST2332L-???	10	4000K	1,100	48	RECESSED	EXTERIOR DOWNLIGHT WITH BLACK TRIM.

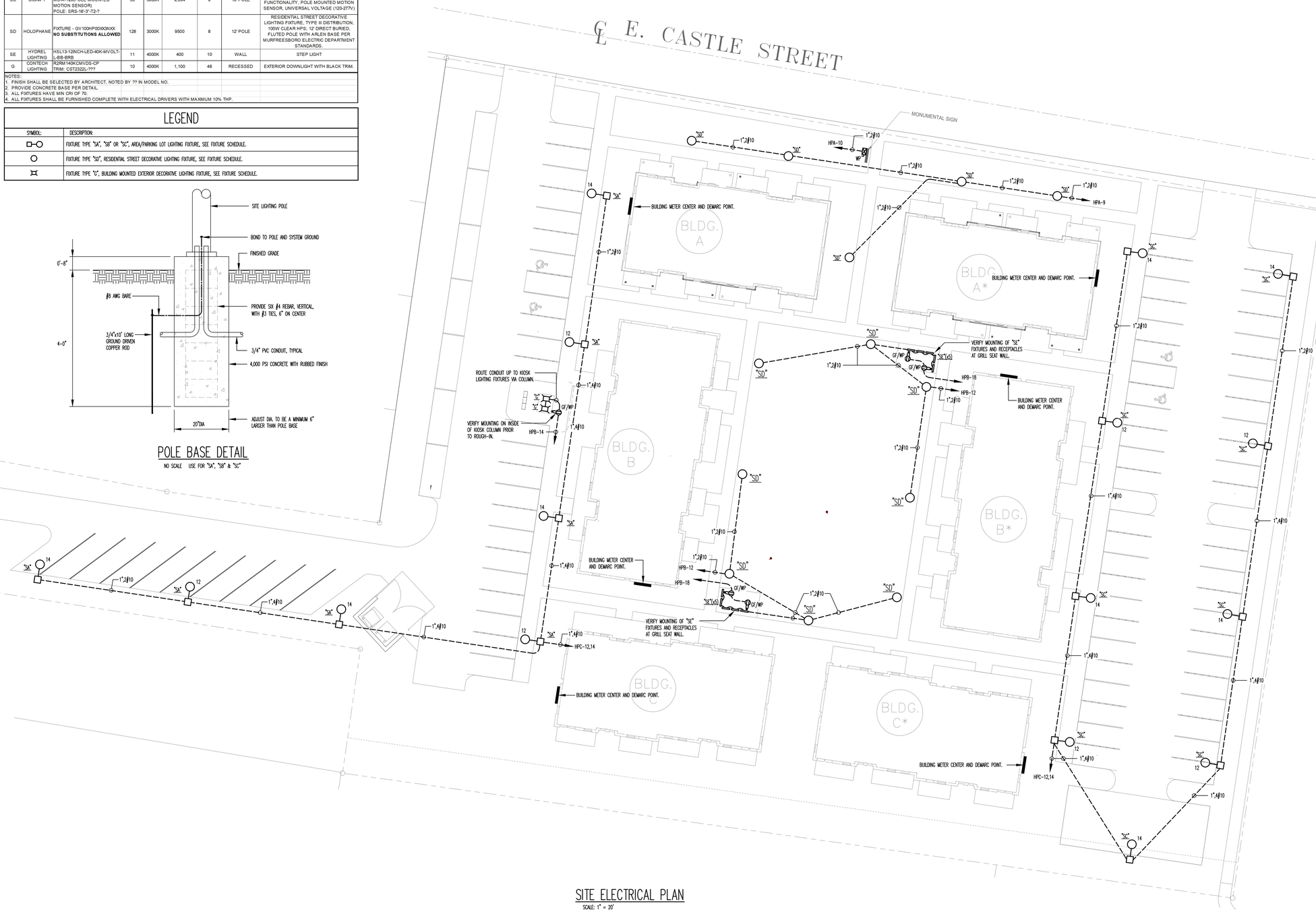
NOTES:
1. FINISH SHALL BE SELECTED BY ARCHITECT, NOTED BY ?? IN MODEL NO.
2. PROVIDE CONCRETE BASE PER DETAIL.
3. ALL FIXTURES HAVE MIN CRI OF 70.
4. ALL FIXTURES SHALL BE FURNISHED COMPLETE WITH ELECTRICAL DRIVERS WITH MAXIMUM 10% THP.

LEGEND

SYMBOL:	DESCRIPTION:
□—○	FIXTURE TYPE "SA", "SB" OR "SC", AREA/PARKING LOT LIGHTING FIXTURE, SEE FIXTURE SCHEDULE.
○	FIXTURE TYPE "SD", RESIDENTIAL STREET DECORATIVE LIGHTING FIXTURE, SEE FIXTURE SCHEDULE.
⌑	FIXTURE TYPE "E", BUILDING MOUNTED EXTERIOR DECORATIVE LIGHTING FIXTURE, SEE FIXTURE SCHEDULE.

POLE BASE DETAIL

NO SCALE USE FOR "SA", "SB" & "SC"



SITE ELECTRICAL PLAN

SCALE: 1" = 20'

12/8/2021 5:16:38 PM

MHM

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550 W. Main St., Suite 300
Knoxville, TN 37902
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SITE ELECTRICAL PLAN

ES100