

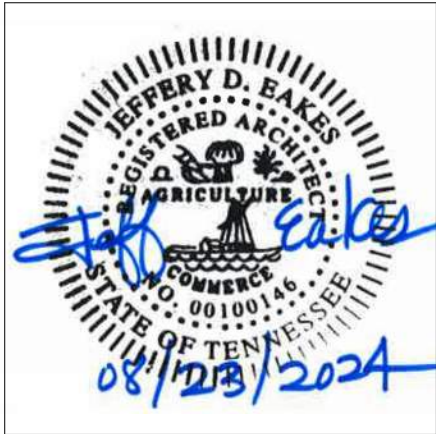
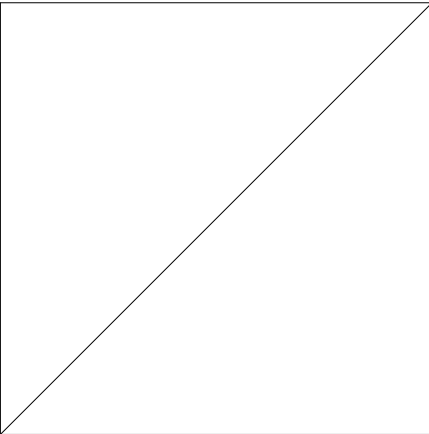
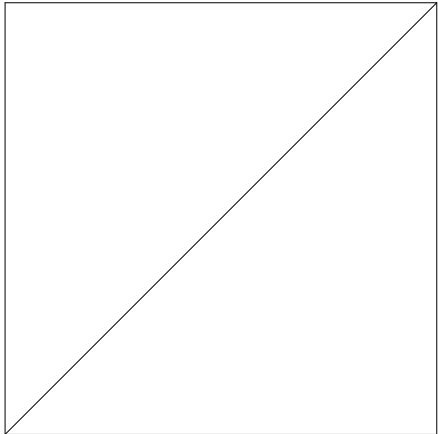
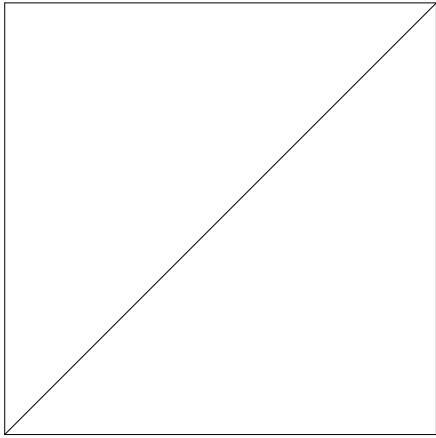


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HAYWOOD COUNTY ELECTION COMMISSION BUILDING RENOVATION

50 BOYD AVE.
BROWNSVILLE, TN 38012

A2H ENGINEERS
ARCHITECTS
PLANNERS

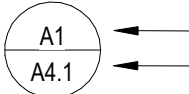
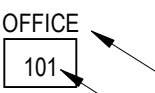
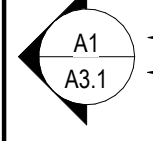
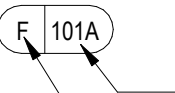
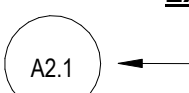

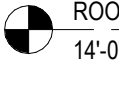
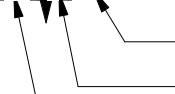
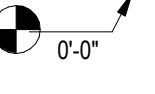
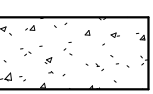
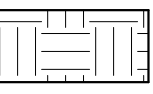
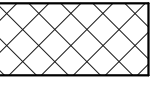
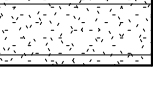

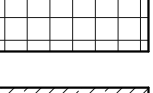


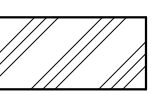
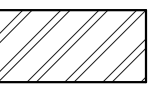
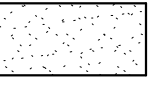


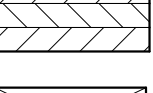
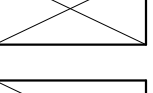
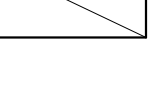
100% CONSTRUCTION DOCUMENTS
AUGUST 23, 2024
PROJECT NUMBER 24262

ARCHITECT		CIVIL ENGINEER
		
STRUCTURAL ENGINEER	MP / FP ENGINEER	ELECTRICAL ENGINEER
		




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@	At	MIN	Minimum
ACM	Aluminum Composite Material	MISC	Miscellaneous
ACT	Acoustical Ceiling Tile	M.O.	Masonry Opening
AFF	Above Finish Floor	N.I.C.	Not In Contract
ALUM	Aluminum	N.T.S.	Not To Scale
APPROX	Approximately	O.C.	On Center
ARCH	Architectural	OSB	Oriented Stranded Board
BLDG	Building	O.S.C.I.	Owner Supplied, Contractor Installed
C.J.	Construction / Control Joint	O.S.O.I.	Owner Supplied, Owner Installed
CL	Center Line	OPP.H.	Opposite Hand
CLR	Clear	P.C.	Precast Concrete
CMU	Concrete Masonry Unit	PL	Plate
COL	Column	PLAM	Plastic Laminate
CONC	Concrete	PLWD	Plywood
CONT	Continuous	PNL	Panel
CPT	Carpet	PNT	Paint / Painted
CT	Ceramic Tile	PSF	Pounds Per Square Foot
DIA	Diameter	PSI	Pounds Per Square Inch
DIM	Dimension	PT	Porcelain Tile
DR	Door	PTN	Partition
D.S.	Downspout	QT	Quarry Tile
DWG	Drawing	R / r	Radius
EA	Each	R.A.	Return Air
EDF	Electrical Drinking Fountain	RB	Rubber Base
E.J. ELEV	Expansion Joint	RCP	Reflected Ceiling Plan
ELEC	Elevation	RD	Roof Drain
ELECT	Electrical	RE	Refer To
EQUIP	Equal	REINF	Reinforcement
EXIST	Equipment	REQ'D	Required
EXT	Existing	REV	Revision / Revised
E.W.	Exterior	RM	Room
FAB	Each Way	R.O.	Rough Opening
FD	Fabric	SC	Sealed Concrete
FE	Floor Drain	SCHED	Schedule
FEC	Fire Extinguisher	SCWD	Solid Core Wood
F.F.	Fire Extinguisher Cabinet	SECT	Section
F.F.E.	Finished Floor	SHT	Sheet
FHC	Finished Floor Elevation	SIM	Similar
FIN	Fire Hose Cabinet	SLD	Solid Surface
FLR	Finish	SPECS	Specifications
FT	Floor	SS	Stainless Steel
GA	Foot / Feet	STC	Stained Concrete
GALV	Gauge	STD	Standard
GB	Galvanized	ST	Stain / Stained
GYP. BD.	Gypsum Board	STL	Steel
HCWD	Gypsum Board	STN	Stone
HDW	Hollow Core Wood	STRUC	Structural
HM	Hardware	SV	Sheet Vinyl
HORIZ	Hollow Metal	SYM	Symbol
IN	Horizontal	TB	Tackboard
INSUL	Inch	TEMP	Tempered
INT	Insulation	TERR	Terrazzo
JT	Interior	T.O.B.	Top of Beam
K	Joint	T.O.F.	Top of Footing
LAT	Kips	T.J.	Totted Joint
LLH	Lay-in Acoustical Tile	T.O.S.	Top of Steel
LLV	Long Leg Horizontal	TRT	Treated
LT	Long Leg Vertical	TYP	Typical
LVT	Light	U.N.O.	Unless Noted Otherwise
MAS	Luxury Vinyl Tile	VCT	Vinyl Composition Tile
MATL	Masonry	VERT	Vertical
MAX	Material	V.W.C.	Vinyl Wall Covering
MECH	Maximum	VTR	Vent Through Roof
MEMB	Mechanical	W	With
MEZZ	Membrane	WB	Wall Base
MTL	Mezzanine	WD	Wood
MFR	Metal	WDW	Window
MID	Manufacturer	WG	Wire Glass
	Middle	W/O	Without

B1	ABBREVIATIONS
No Scale	
DETAIL REFERENCE	ROOM TAG
	
DETAIL NUMBER	ROOM NAME
SHEET NUMBER	ROOM NUMBER
SECTION REFERENCE	DOOR TAG
	
DETAIL NUMBER	DOOR NUMBER
SHEET NUMBER	PANEL TYPE
EXT. / INT. ELEVATION	WINDOW TAG
	
SHEET NUMBER	
DETAIL NUMBER	
LEVEL INDICATOR	WALL TAG
	
	CORE INSULATION
	HEIGHT DESIGNATION
	WALL TYPE
SPOT ELEVATION	
	
C1	SYMBOLS LEGEND
1/4" = 1'-0"	
	CONCRETE
	EARTH
	E.I.F.S. - EPS
	GYPSUM BOARD
	INSULATION - BATT
	INSULATION - RIGID
	INSULATION - SPRAYED
	MASONRY - BRICK
	METAL - ALUMINUM
	METAL - STEEL
	STONE
	WOOD - FINISH CARPENTRY
	WOOD - OSB
	WOOD - PLYWOOD
	WOOD - ROUGH FRAMING
	WOOD - SHIM
D1	ARCHITECTURAL MATERIALS LEGEND
12" = 1'-0"	
D2	DISCLAIMER NOTES
No Scale	
EXISTING CONSTRUCTION	
1. INFORMATION ON EXISTING CONSTRUCTION IS BASED ON RECORD DRAWINGS PROVIDED TO A2H, INC. BY THE OWNER. A2H, INC. IS NOT RESPONSIBLE FOR VERIFYING ALL INFORMATION IN SUCH RECORD DOCUMENTS. A2H, INC. MAKES NO CLAIM TO THE COMPLETENESS, ACCURACY, OR USE OF DRAWING INFORMATION RELATING TO EXISTING CONDITIONS.	
2. THE CONTRACTOR IS RESPONSIBLE FOR EXAMINING EXISTING CONDITIONS AS NEEDED TO VERIFY INFORMATION RELATING TO EXISTING CONSTRUCTION ELEMENTS DEPICTED ON THESE DRAWINGS.	

CONTRACT DOCUMENTS	
1. THE SPECIFICATIONS ARE AN INTEGRAL PART OF THE CONTRACT DOCUMENTS AND SHALL BE USED IN CONJUNCTION WITH THE DRAWINGS. IN CASES, IF ANY, WHERE REQUIREMENTS INDICATED ON THE DRAWINGS DIFFER FROM THE SPECIFICATIONS, NOTIFY A2H PROJECT MANAGER.	
GENERAL	
1. ALL WORK SHALL BE DONE IN ACCORDANCE WITH ALL APPLICABLE CODES, ORDINANCE AND ACCEPTED INDUSTRY STANDARDS. REFER TO LIFE SAFETY PLAN AND BUILDING CODE DATA FOR MORE INFORMATION.	
2. THE CONTRACTOR SHALL ABIDE BY THE INTERNATIONAL BUILDING CODE CHAPTER 33 - SAFEGUARDS DURING CONSTRUCTION.	
3. DO NOT SCALE DRAWINGS. IF DIMENSIONS ARE IN QUESTION, NOTIFY THE A2H PROJECT MANAGER.	
4. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL FIELD CONDITIONS AND DIMENSIONS. IN THE EVENT OF ENCOUNTERING ANY CONFLICT BETWEEN THE DRAWINGS AND THE EXISTING CONDITIONS, A2H PROJECT MANAGER SHALL BE NOTIFIED IMMEDIATELY.	
5. USE MOISTURE RESISTANT BOARD AT ALL WALLS WITH PLUMBING FIXTURES U.N.O.	
6. ALL GYPSUM BOARD ABUTTING OTHER MATERIALS IS TO BE FINISHED WITH METAL EDGES AND CAULKED OR FIRE STOPPED AS REQUIRED.	
7. ALL INTERIOR PARTITIONS SHALL BE CONTINUOUS FROM FLOOR TO STRUCTURE ABOVE AS SHOWN ON WALL SECTIONS AND DETAILS U.N.O. THE EXTENT AND LOCATIONS OF RATED PARTITIONS AND SMOKE PARTITIONS ARE SHOWN ON THE FLOOR PLAN.	
8. ELECTRICAL PANELS, FIRE HOSE CABINETS, AND RECESSED OBJECTS OVER 16 SQUARE INCHES, IN FIRE RATED WALLS, ARE TO BE WRAPPED IN GYPSUM BOARD OR OTHER FIRESTOPPING MATERIAL TO MAINTAIN THE WALL RATING.	
9. PROVIDE ANCHORAGE, BLOCKING, BACKING AND FRAMING FOR EQUIPMENT, FIXTURES, RAILING, CASEWORK, TOILET PARTITIONS, TOILET ACCESSORIES, ETC. AS REQUIRED FOR A COMPLETE INSTALLATION.	
10. THE DRYWALL SYSTEM IS BASED ON DETAILS OF THE U.S. GYPSUM COMPANY.	
LIFE SAFETY	
1. ALL FIRE RATED PARTITIONS SHALL EXTEND TO UNDERSIDE OF FLOOR DECK / ROOF DECK. SEAL PERIMETER AND PENETRATIONS PER CODES.	
2. PROVIDE FIREBLOCKING AND DRAFTSTOPPING IN CONCEALED SPACES PER APPLICABLE CODES.	
3. FURNISH AND INSTALL MANUAL FIRE EXTINGUISHERS PER LOCAL CODES. REFER TO DRAWINGS AND SPECIFICATIONS.	
FLOOR PLAN	
1. ALL DIMENSIONS FOR EXTERIOR WALLS ARE TO EDGE OF SLAB AND/OR EXTERIOR FACE OF STUD OR EXTERIOR FACE OF FINISH VENEER (MASONRY OR CONCRETE) U.N.O.	
2. ALL DIMENSIONS FOR INTERIOR PARTITIONS ARE TO FINISH FACE OF WALL U.N.O.	
3. DIMENSIONS FOR SINGLE DOORS ARE TO OUTSIDE FACE OF FRAME U.N.O.	
4. DIMENSIONS FOR DOUBLE DOORS ARE TO OUTSIDE FACE OF FRAME OR DOOR CENTERLINE U.N.O. REFER TO DOOR SCHEDULE	
5. DOOR FRAMES SHALL BE LOCATED 4" FROM CORNERS (8" FOR C.M.U. CONSTRUCTION) U.N.O.	
6. DIMENSIONS FOR WINDOW ARE TO CENTERLINE OF UNIT OR TO ROUGH OPENING FACE U.N.O. REFER TO WINDOW SCHEDULE.	
THERMAL ENVELOPE	
1. PROVIDE A CONTINUOUS THERMAL ENVELOPE INCLUDING WALL STRUCTURE, SHEATHING AND INSULATION. WALL ASSEMBLY INSULATION TO OVERLAP AND/OR SURPASS ROOF INSULATION. INSULATION AND RELATED THERMAL BARRIER COMPONENTS MAY NOT BE SHOWN IN DRAWINGS FOR CLARITY.	
WALL PARTITIONS	
1. PARTITION TYPES INDICATED ARE CONTINUOUS TO A CORNER OR AN INTERSECTING PARTITION, UNLESS INDICATED OTHERWISE. WHERE PARTITIONS OF DIFFERENT THICKNESSES MEET, MAINTAIN A FLUSH SURFACE ON THE SIDE WHERE FACES ARE STRAIGHT AND CONTINUOUS, UNLESS NOTED OTHERWISE.	
2. EDGES OF GYPSUM WALL BOARD LEFT EXPOSED TO VIEW OR ABUTTING DISSIMILAR MATERIALS ARE TO BE FINISHED WITH METAL BEAD TRIM AND JOINT COMPOUND, U.N.O. DRYWALL ADHESIVES WILL NOT BE ALLOWED TO BE USED TO ADHERE THE CORNER BEADS, UNLESS USED IN CONJUNCTION WITH PERMANENT MECHANICAL FASTENERS.	
3. SOUND ATTENUATION: BATTS (SAB) ARE TO BE PLACED IN ALL NEW PARTITIONS AND IN EXISTING PARTITIONS ADJACENT TO RENOVATED AREAS OR AREAS AFFECTED BY RENOVATION.	
4. PROVIDE SINGLE 20 GAUGE 3 5/8" METAL STUD AT EACH DOOR JAMB FOR OPENINGS UP TO 3'-0" WIDE. PROVIDE DOUBLE 20 GAUGE STUDS AT EACH DOOR JAMB FOR OPENINGS OVER 3'-0" WIDE.	
ACOUSTICAL NOTES	
1. PROVIDE RESILIENT SEALANT BOTH SIDES OF PARTITIONS AROUND THE PERIMETER.	
2. REMOVE ALL DEBRIS AT THE FLOOR AND BROOM SWEEP CLEAN BEFORE SETTING TRACK.	
3. USE A MINIMUM OF 3 BEADS OF RESILIENT SEALANT (1/4" THICK MIN.) AT THE FLOOR, ONE UNDER THE TRACK, AND ONE BEAD BOTH SIDES AT GYPSUM BOARD.	
4. USE BACKER ROD TO CLOSE OFF OPENINGS GREATER THAN 1/4" PRIOR TO APPLICATION OF RESILIENT SEALANT.	
5. PLACE OUTLET BOXES IN SEPARATE STUD SPACES. THIS INCLUDES ELECTRICAL OUTLETS, LIGHT SWITCHES, AUDIO, DATA, AND TELEPHONE OUTLET BOXES. PROVIDE ST1 SERIES SSP PUTTY PADS OR EQUAL BEHIND ALL BOXES.	
6. SEAL ALL ELECTRICAL BOXES TO THEIR GYPSUM BOARD CUT-OUT WITH RESILIENT SEALANT.	
7. PIPES RUNNING THROUGH WALLS SHALL NOT MAKE RIGID CONTACT WITH GYPSUM BOARD OR STUDS.	
8. PROVIDE HANGERS TO SUPPORT PIPE. DO NOT CARRY PIPE WEIGHT ON PARTITIONS. CENTER PIPE IN PARTITION OPENING.	
9. USE GYPSUM BOARD FILLER PIECES TO CLOSE OFF LARGE OPENINGS AROUND PIPES. REPAIR, TAPE, AND MUD WALL AND PROVIDE TIGHT FIT AROUND PIPE TO ALLOW FOR BACKER ROD AND RESILIENT SEALANT.	
10. SEAL PENETRATIONS WITH RESILIENT SEALANT TO CLOSE GAPS. USE FIRE RATED SEALANT AT RATED PARTITIONS.	
FINISHES / ROOM SCHEDULE	
1. ROOM NET AREA AND PERIMETER LENGTH SHOWN IN SCHEDULE(S) IS FOR REFERENCE ONLY. CONTRACTOR IS RESPONSIBLE TO VERIFY QUANTITIES.	
EXISTING CONSTRUCTION	
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PROJECT LOCATION	
	
	
A3	VICINITY MAP
NTS	
	
PROJECT LOCATION	

B3	LOCATION MAP / VIEW
NTS	

GENERAL

SHEET NUMBER	SHEET NAME	ISSUE DATE	CURRENT REVISION	REVISION DATE
G0.0	COVER SHEET	08/23/24		
G0.1	PROJECT DATA AND NOTES	08/23/24		

ARCHITECTURAL

SHEET NUMBER	SHEET NAME	ISSUE DATE	CURRENT REVISION	REVISION DATE
A0.1	FLOOR PLAN - DEMOLITION	08/23/24		
A1.1	FLOOR PLAN	08/23/24		
A1.3	ENLARGED RESTROOM & ELEVATIONS	08/23/24		
A1.4	SITE DETAILS - RAMP	08/23/24		
A6.1	DOOR, WINDOW & INTERIOR DETAILS	08/23/24		
A7.1	FINISH PLAN & SCHEDULE	08/23/24		
A8.1	REFLECTED CEILING PLAN	08/23/24		

MECHANICAL

SHEET NUMBER	SHEET NAME	ISSUE DATE	CURRENT REVISION	REVISION DATE
M1.1	HVAC FLOOR PLAN	08/23/24		
M2.1	HVAC DETAILS	08/23/24		

PLUMBING

SHEET NUMBER	SHEET NAME	ISSUE DATE	CURRENT REVISION	REVISION DATE
P1.1	PLUMBING FLOOR PLAN	08/23/24		
P2.1	PLUMBING FIXTURE SCHEDULE AND DETAILS	08/23/24		

ELECTRICAL

SHEET NUMBER	SHEET NAME	ISSUE DATE	CURRENT REVISION	REVISION DATE
E0.0	ELECTRICAL LEGEND AND NOTES	08/23/24		
E1.0	ELECTRICAL - DEMOLITION - FLOOR PLAN	08/23/24		
E1.1	LIGHTING - FIRST FLOOR PLAN	08/23/24		
E2.1	POWER - FIRST FLOOR PLAN	08/23/24		
E7.0	ELECTRICAL SPECIFICATIONS	08/23/24		

D5

SHEET INDEX

A2H ENGINEERS ARCHITECTS PLANNERS

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HAYWOOD COUNTY

ELECTION COMMISSION BUILDING RENOVATION

50 BOYD AVE.
BROWNSVILLE, TN 38012

100% CONSTRUCTION DOCUMENTS

REVISIONS

PROJECT NO. 24282 DATE AUGUST 23, 2024

DRAWN Author CHECKED Checker

PROJECT DATA AND NOTES

G0.1

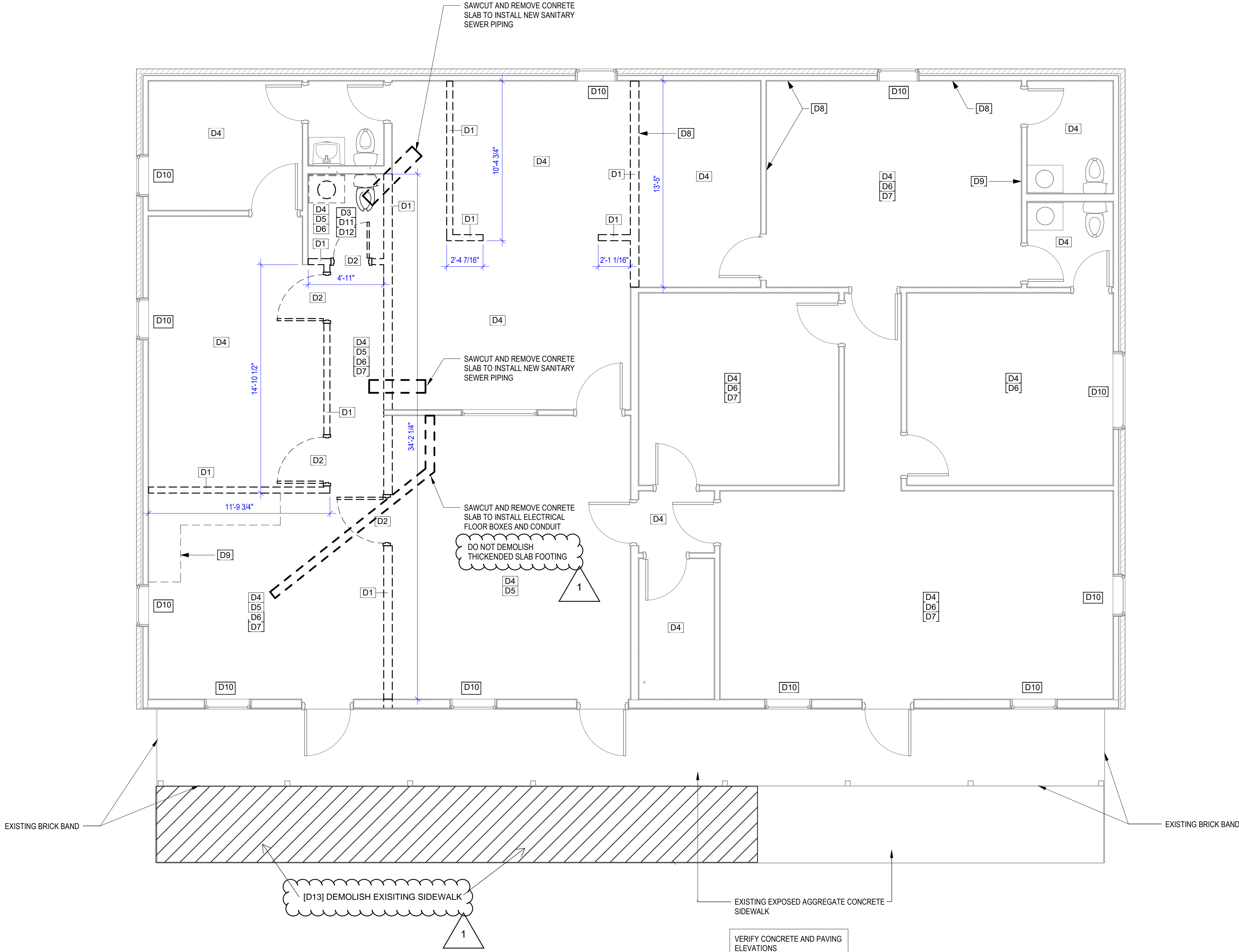
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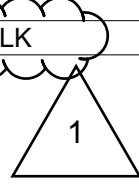
D1

1/4" = 1'-0"

FLOOR PLAN - DEMOLITION



DEMOLITION NOTES	
MARK	NOTE
D1	WALLS TO BE REMOVED.
D2	DOOR TO BE REMOVED.
D3	PLUMBING FIXTURES TO BE REMOVED.
D4	FLOORING FINISH TO BE REMOVED.
D5	CEILING TEXTURE TO BE SCRAPPED SMOOTH.
D6	WALLPAPER TO BE REMOVED.
D7	REMOVE CROWN MOLDING.
D8	REMOVE WALL SHELVES.
D9	CAREFULLY REMOVE MILLWORK AND RETURN TO OWNER.
D10	REMOVE WINDOW TREATMENT.
D11	REMOVE MIRROR.
D12	REMOVE TOWEL RACK.
D13	REMOVE CONCRETE WALK



WALL LEGEND	
	DEMO WALL
	EXISTING WALL
	NEW WALL

- DEMOLITION GENERAL NOTES**
- CONTRACTOR SHALL BE RESPONSIBLE FOR DEMOLITION DEBRIS REMOVAL AND SHALL CONFORM TO ALL APPLICABLE REGULATORY REQUIREMENTS. ALL DEBRIS SHALL BE PROMPTLY AND LEGALLY DISPOSED OF.
 - CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING TRASH CONTAINERS. COORDINATE LOCATION WITH OWNER.
 - CONTRACTOR PERFORMING THE WORK SHALL BE RESPONSIBLE FOR REQUIRED UTILITY CONNECTION, SEQUENCE OF WORK, TEMPORARY SHORING, DUST ABATEMENT, AND ALL STAGING AND STORAGE AREAS.
 - CONTACT ARCHITECT IMMEDIATELY IF LIMITS OF DEMOLITION BECOME UNCLEAR.
 - CONTRACTOR TO PROTECT ALL AREAS AND ITEMS TO REMAIN WHICH ARE IN CLOSE PROXIMITY TO DEMOLITION ACTIVITY.
 - PROTECT ALL CARPET, FURNISHINGS, AND FINISHES FROM DAMAGE DURING DEMOLITION. INSTALL DUST BARRIERS IN ALL AREAS TO CONTROL DUST MIGRATION. CLEAN AND VACUUM ALL AREAS THOROUGHLY AFTER COMPLETION.
 - EXISTING WALLS DENOTED BY A DASHED LINE ON PLAN TO BE REMOVED.
 - EXISTING FLOORING TO BE REMOVED IN RENOVATED AREAS. REFER TO FLOOR FINISH PLAN FOR NEW FLOORING LOCATIONS AND DEMO EXISTING AS NEEDED. CLEAN AND PREP SUBFLOOR OR SLAB FOR NEW FLOORING AS NOTED IN ROOM FINISH SCHEDULE.
 - REMOVE EXISTING WOOD DOORS, HARDWARE, AND FRAMES AS INDICATED AND SALVAGE AS REQUIRED FOR REUSE ON THE PROJECT.
 - PATCH AND REPAIR EXISTING WALLS, CEILINGS AND FLOORS, WITH MATERIALS TO MATCH EXISTING, AS REQUIRED TO RECEIVE NEW FINISHES AND TO ACCOMMODATE RENOVATIONS.
 - REMOVE EXISTING TOILET ACCESSORIES AND SAVE FOR REINSTALLATION.
 - RELOCATE EXISTING DATA AND ELECTRICAL AS REQUIRED TO ACCOMMODATE RENOVATIONS. REFER TO ELECTRICAL SHEETS.
 - SEE MECHANICAL, PLUMBING AND ELECTRICAL SHEETS FOR ADDITIONAL DEMOLITION NOTES.

D5

No Scale

DEMOLITION NOTES

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LAKELAND, TN 38002
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HAYWOOD COUNTY

ELECTION
COMMISSION
BUILDING
RENOVATION

50 BOYD AVE.
BROWNSVILLE, TN 38012

100% CONSTRUCTION
DOCUMENTS

REVISIONS
#1: NOVEMBER 18, 2024

PROJECT NO.	DATE
24282	AUGUST 23, 2024
DRAWN	CHECKED
HA	JE

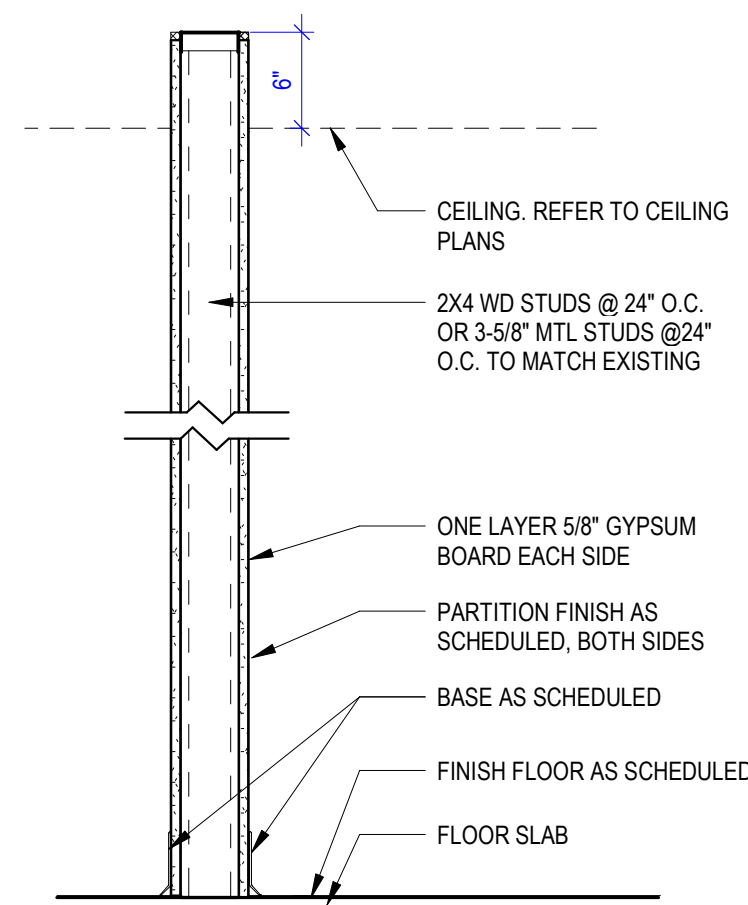
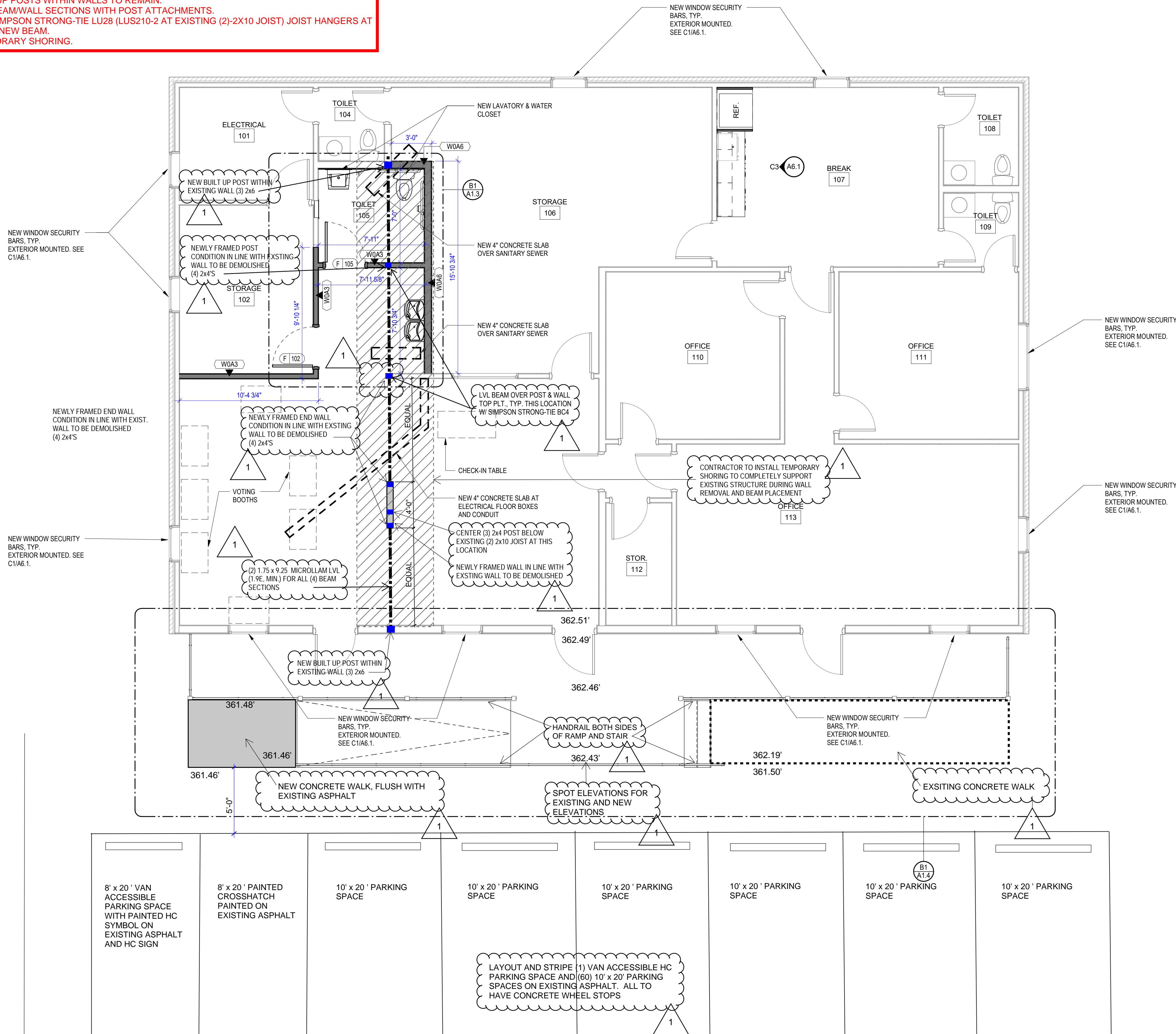
FLOOR PLAN -
DEMOLITION

A0.1

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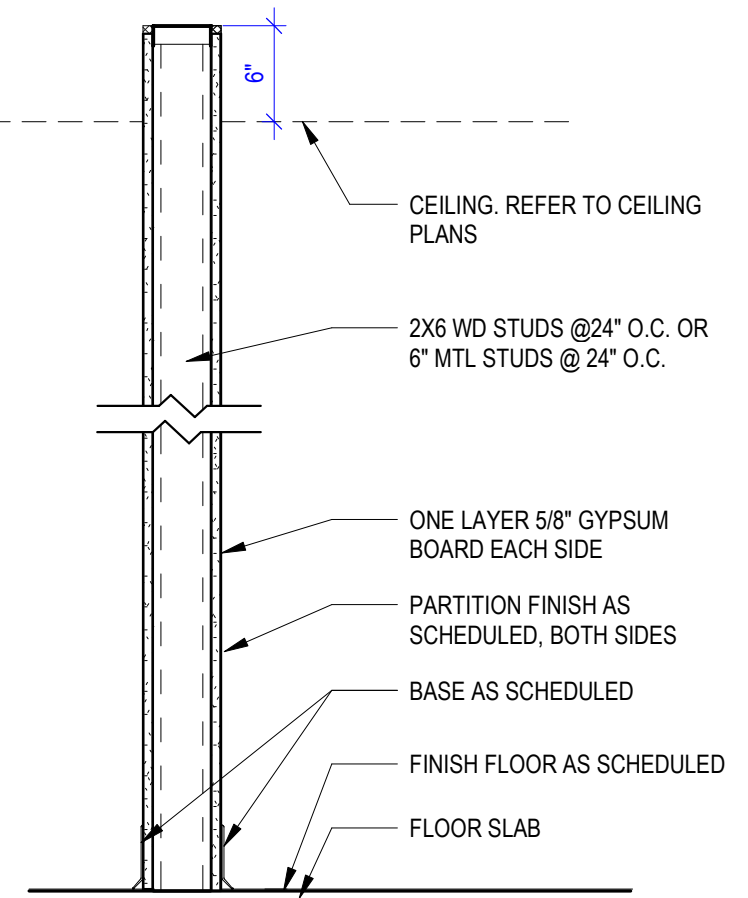
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- BEAM INSTALLATION SEQUENCE NOTES:**
1. PRIOR TO BEGINNING WORK, CONTRACTOR SHALL PHOTODOCUMENT CONDITIONS OF EXISTING FINISHES IN APARTMENT ABOVE FOR COMPARISON TO CONDITIONS AFTER COMPLETION.
 2. THROUGHOUT WORK, CONTRACTOR SHALL CLOSELY MONITOR EXISTING STRUCTURE FOR DAMAGE, DEFLECTION, AND CHANGING CONDITIONS. IF OBSERVED, CONTRACTOR SHALL CEASE WORK IMMEDIATELY AND CONTACT THE ARCHITECT FOR RECOMMENDATIONS.
 3. INSTALL TEMPORARY SHORING ENSURING EXISTING STRUCTURE IS COMPLETELY SUPPORTED.
 4. REMOVE EXISTING WALLS PER PLAN.
 5. TRIM ENDS OF EXISTING JOISTS TO INSTALL NEW BEAM.
 6. INSTALL BUILT-UP POSTS WITHIN WALLS TO REMAIN.
 7. INSTALL NEW BEAM/WALL SECTIONS WITH POST ATTACHMENTS.
 8. INSTALL NEW SIMPSON STRONG-TIE LU28 (LUS210-2 AT EXISTING (2)-2X10 JOIST) JOIST HANGERS AT EACH JOIST TO NEW BEAM.
 9. REMOVE TEMPORARY SHORING.



A6
1" = 1'-0"

WALL TYPE - W0A3



B6
1" = 1'-0"

WALL TYPE - W0A6

WALL LEGEND

	DEMO WALL
	EXISTING WALL
	NEW WALL

MULTI-PLY COMPOSITE LUMBER BEAM CONNECTION				
ASSEMBLY TYPES				
A	B	C	D	E
BEAM CONFIGURATION	ASSEMBLY TYPE	FASTENER TYPE	# ROWS	FASTENER SPACING
2-PLY LVL	A	SIMPSON SDW22338	2 ROWS	16" O.C.
3-PLY LVL	B	SIMPSON SDW22500	2 ROWS	16" O.C.
4-PLY LVL	C	SIMPSON SDW22634	3 ROWS	16" O.C.
2-PLY 5-1/4" PSL	D	1/2" Ø A307 THROUGH BOLTS	2 ROWS	16" O.C.
2-PLY 7" PSL	E	1/2" Ø A307 THROUGH BOLTS	3 ROWS	16" O.C.

- NOTES:**
1. MINIMUM EDGE, AND ROW SPACING REQUIREMENTS FOR SCREWS SHALL BE PER ACTURER SPECIFICATIONS.
 2. 1/2" Ø BOLTS SHALL HAVE 1/2" Ø PRE DRILLED HOLES WITH AN EDGE DISTANCE OF 2" MIN. FROM THE TOP OF THE BEAM AND 3" MIN. SPACING BETWEEN BOLTS.

D6
1" = 1'-0"

MULTI-PLY COMPOSITE LUMBER BEAM CONNECTION

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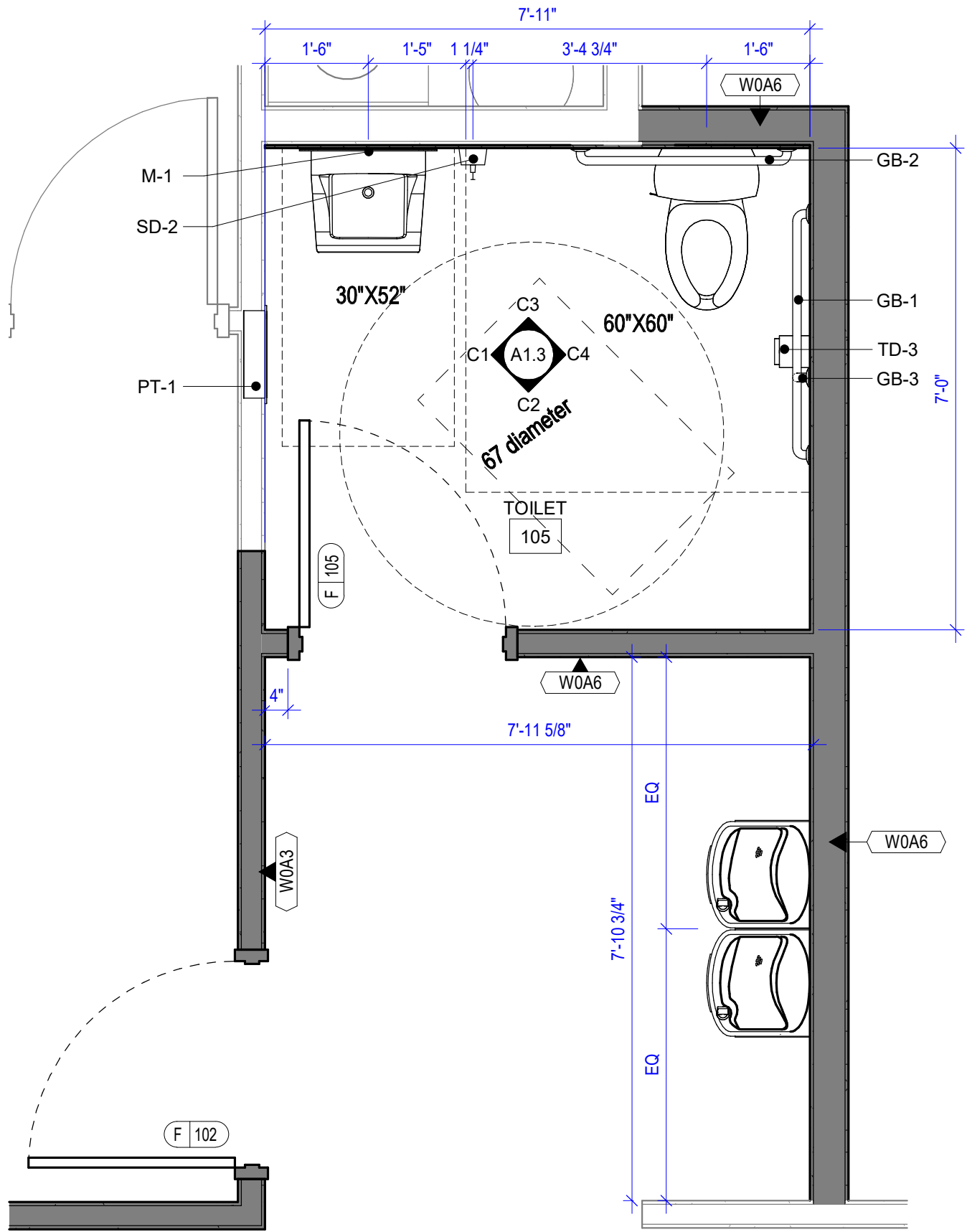
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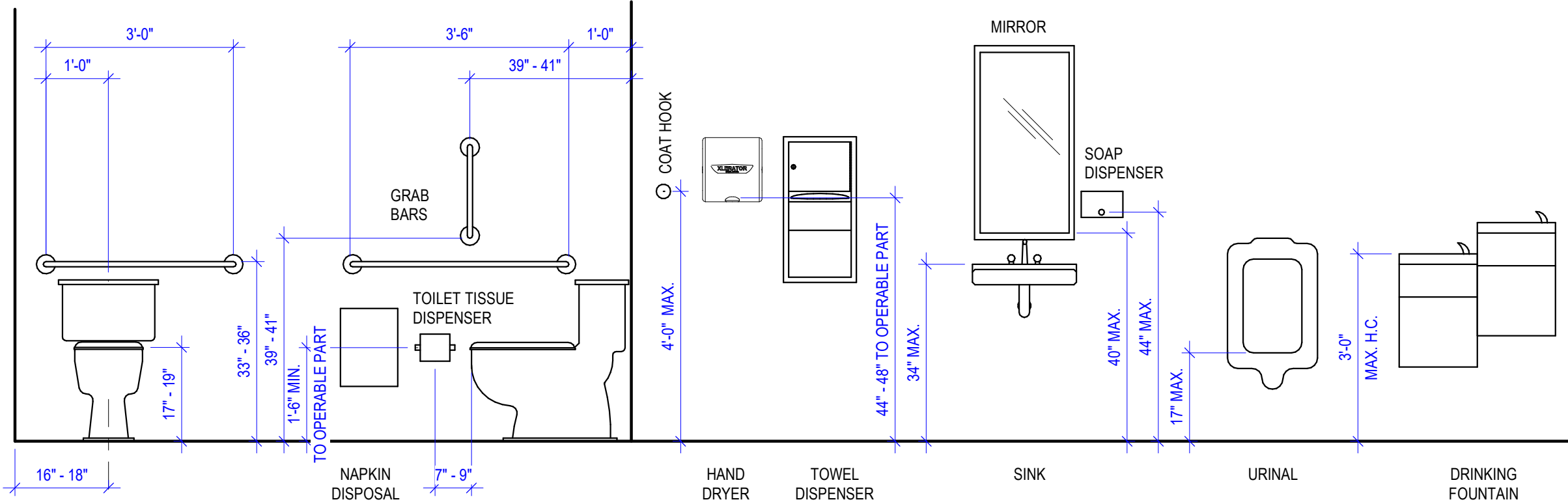
FLOOR PLAN
#1: NOVEMBER 18, 2024

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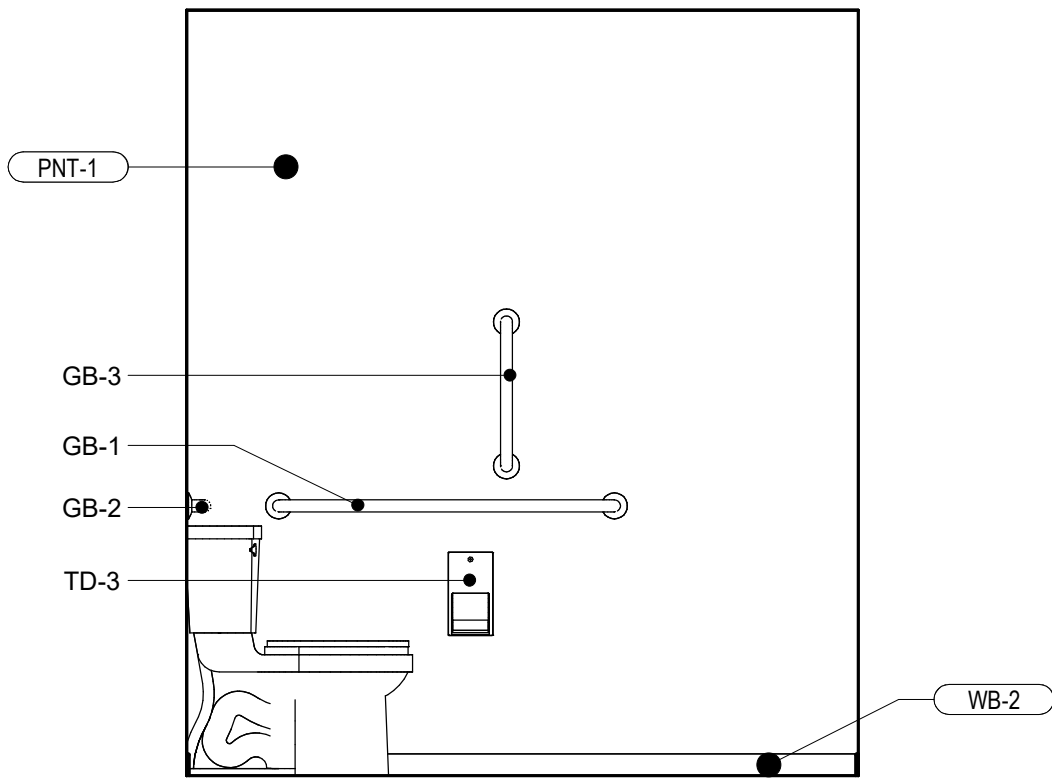
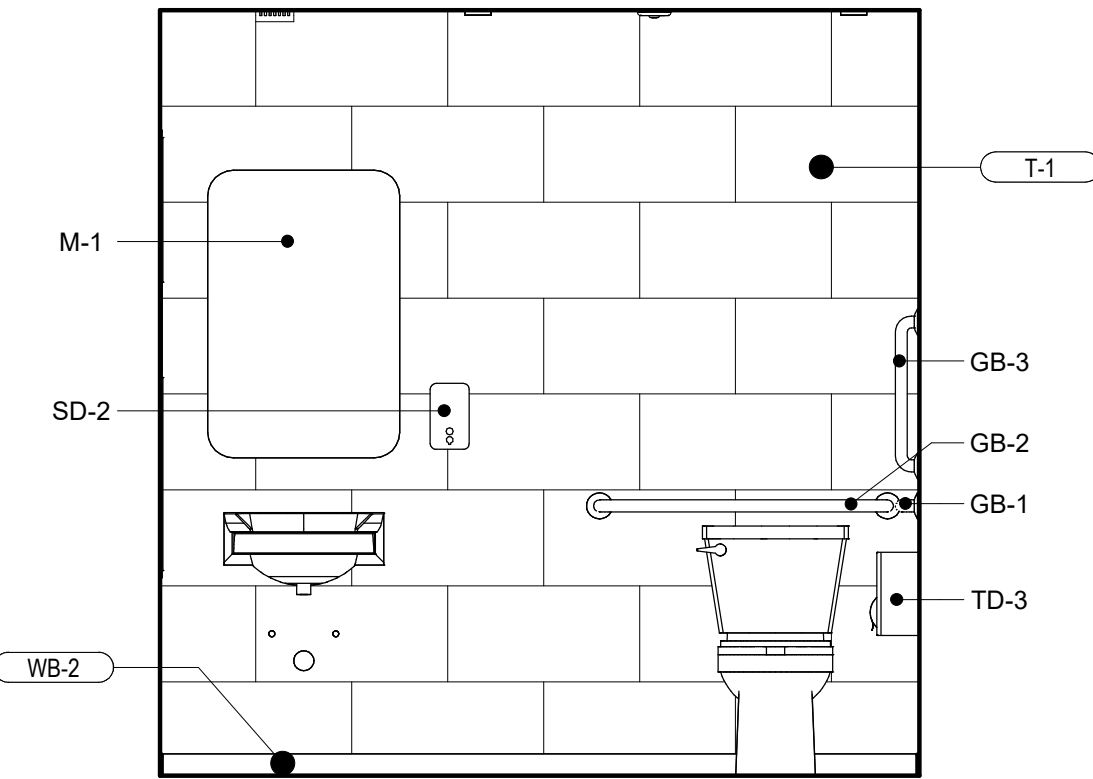
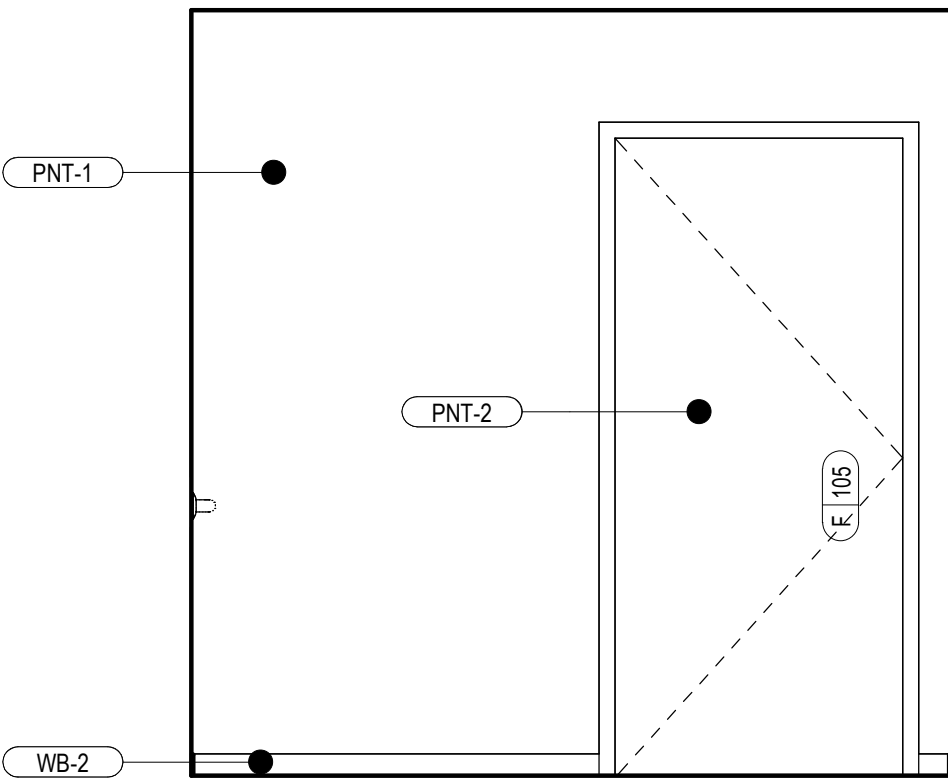
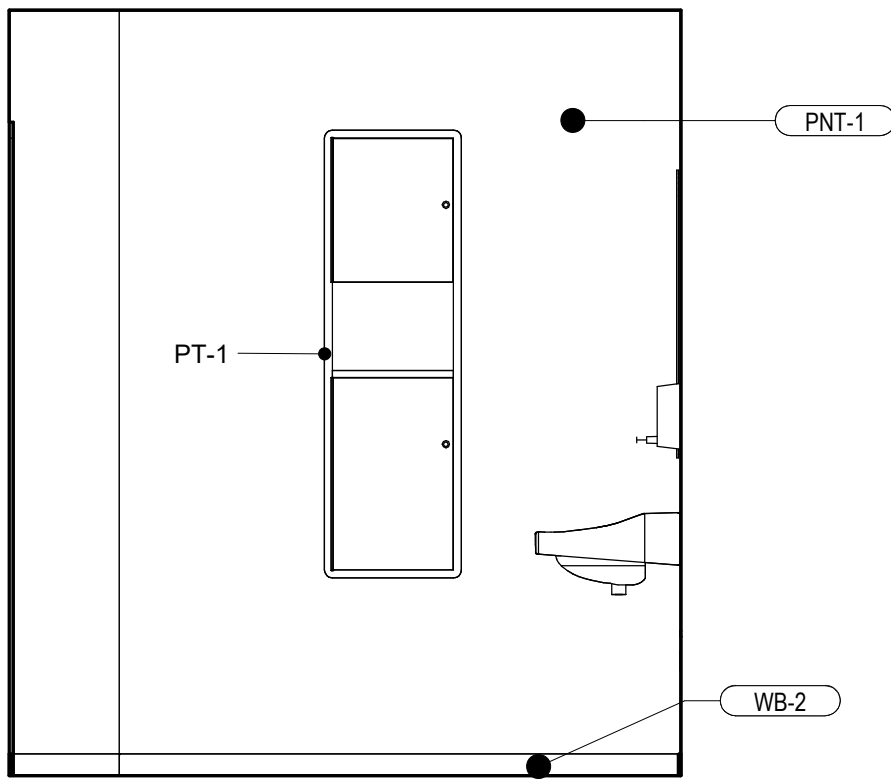
TOILET ACCESSORY SCHEDULE				
MARK	DESCRIPTION	MANUFACTURER	MODEL	COMMENTS
GB-1	GRAB BAR 42"	Bradley Corporation	8120-001420	All grab bar configurations are specified using centerline to centerline dimensions.
GB-2	GRAB BAR 36"	Bradley Corporation	8120-001360	All grab bar configurations are specified using centerline to centerline dimensions.
GB-3	GRAB BAR 18"	Bradley Corporation	8120-001360	All grab bar configurations are specified using centerline to centerline dimensions.
M-1	MIRROR WITH FRAME, 24" x 36"	Bradley Corporation	7B1-0024360	Frame Color - TBD
PT-1	TOWEL DISPENSER, WASTE RECEPTACLE	Bradley Corporation	235-000000	Recessed, 12 Gallon
SD-2	SOAP DISPENSER	Bradley Corporation	6562	Surface mounted
TD-3	TOILET TISSUE DISPENSER	Bradley Corporation	5402	Surface mounted



B1
1/2" = 1'-0" ENLARGED RESTROOM PLAN



B3
1/2" = 1'-0" TYPICAL MOUNTING HEIGHTS



C1
1/2" = 1'-0" TOILET 105 - NORTH ELEVATION

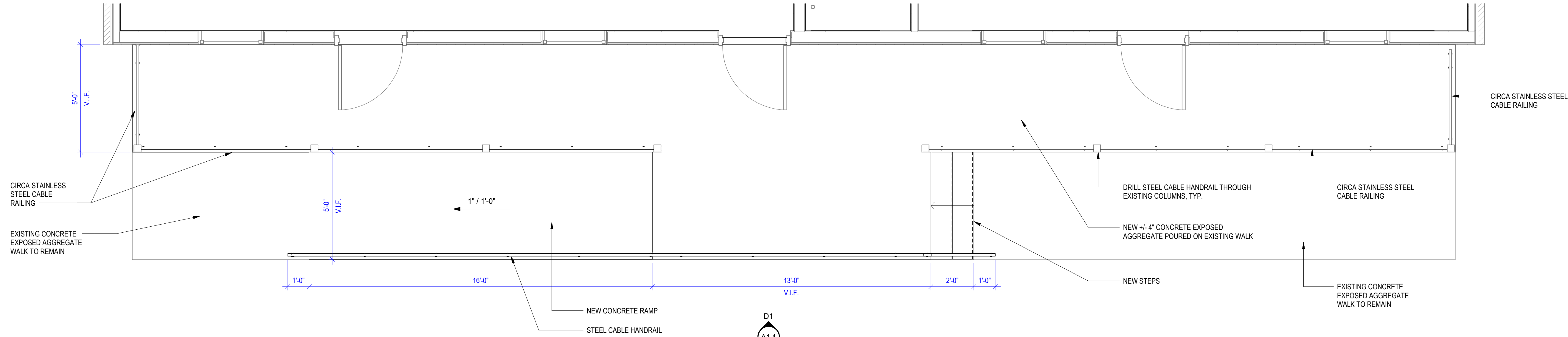
C2
1/2" = 1'-0" TOILET 105 - WEST ELEVATION

C3
1/2" = 1'-0" TOILET 105 - EAST ELEVATION

C4
1/2" = 1'-0" TOILET 105 - SOUTH

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B1

ENLARGED PLAN - RAMP

3/8" = 1'-0"



FIRST FLOOR
0"
THRESHOLD
-3"
BOTTOM WALK
-11"
PARKING LOT
-14"

D1

WEST ELEVATION - RAMP

3/8" = 1'-0"

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SITE DETAILS - RAMP

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DOOR SCHEDULE																			Phase Created
MARK	DOOR							FRAME				HARDWARE					FIRE RATING	COMMENTS	
	WIDTH	HEIGHT	THICK	MATERIAL	FINISH	TYPE	GLAZING	MATERIAL	FINISH	WRAP FRAME	FRAME DEPTH	SMOKE GASKET	WEATHER STRIPPING	ACCESS CONTROL	HARDWARE SET NO.				
102	3'-0"	6'-8"	1 3/4"	WD	PNT-2	F	NONE	WD	PNT-2	No	5 3/4"	No	No					New Construction	
105	3'-0"	6'-8"	1 3/4"	WD	PNT-2	F	NONE	WD	PNT-2	No	5 3/4"	No	No					New Construction	

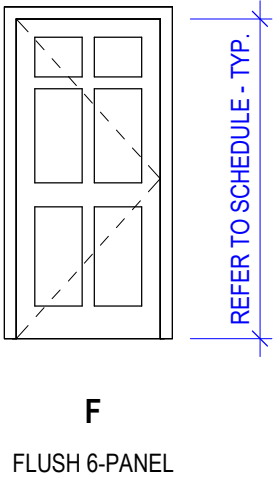
DOOR SCHEDULE LEGEND

MATERIAL

SCW SOLID CORE WOOD

FINISH

PNT-* PAINT
ST-* STAIN
PLAM PLASTIC LAMINATE



F
FLUSH 6-PANEL

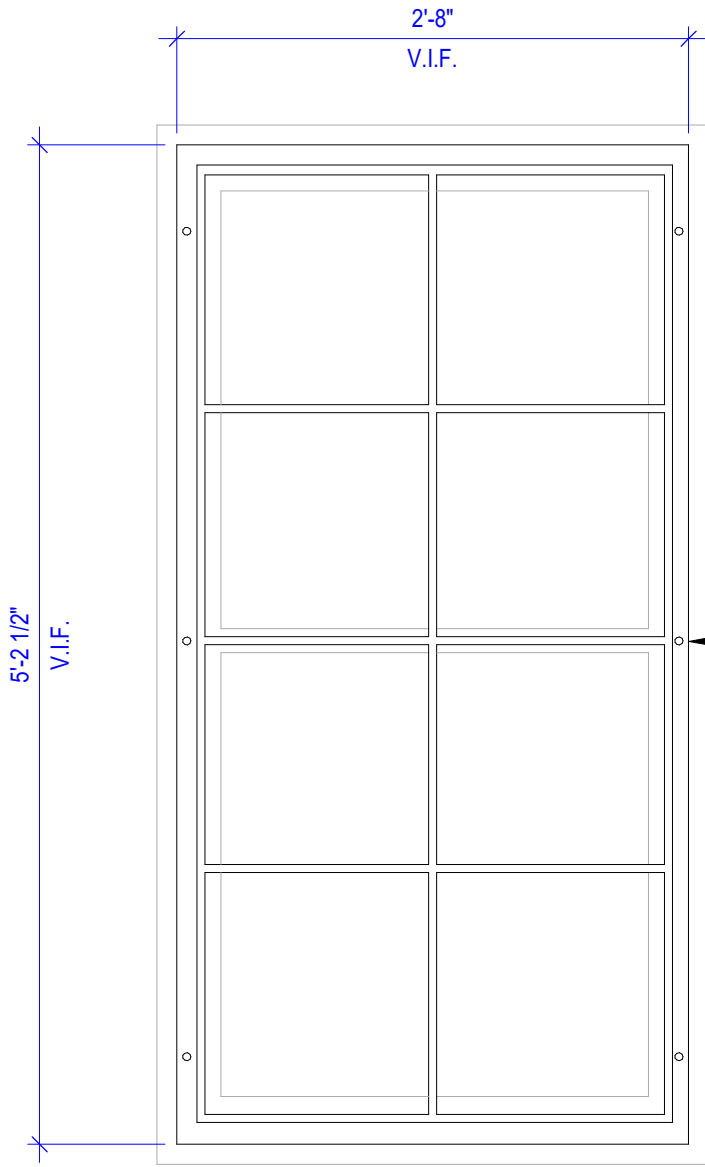
DOOR GENERAL NOTES:

A. PAINT ALL EXISTING INTERIOR DOORS PNT-2.

WINDOWS AND GLAZING NOTES:

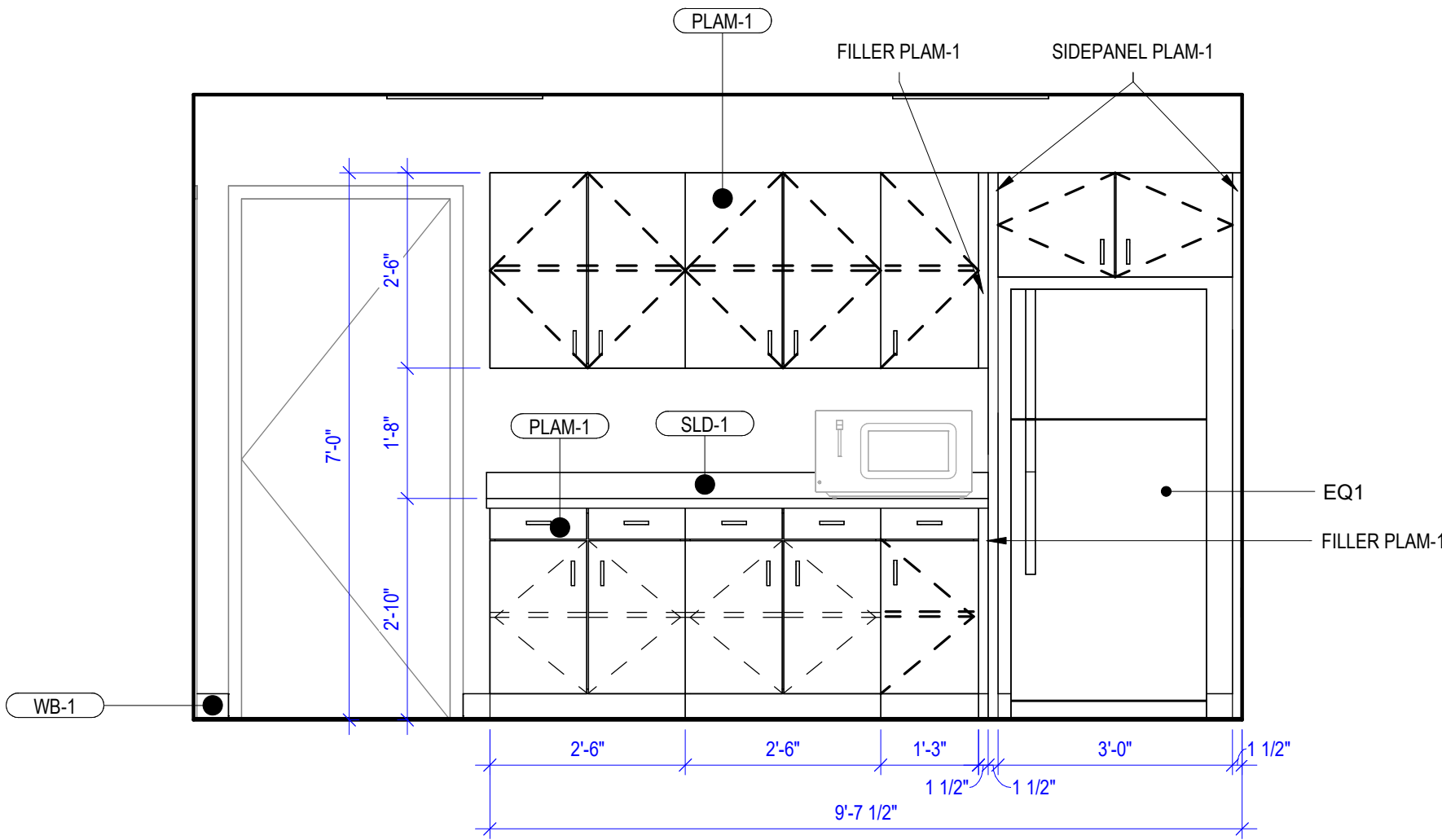
A. CONTRACTOR IS RESPONSIBLE FOR VERIFYING QUANTITIES AND SIZES OF WINDOWS. NOTIFY THE ARCHITECT OF ANY DISCREPANCIES.

A1
N.T.S. DOOR SCHEDULE & LEGEND

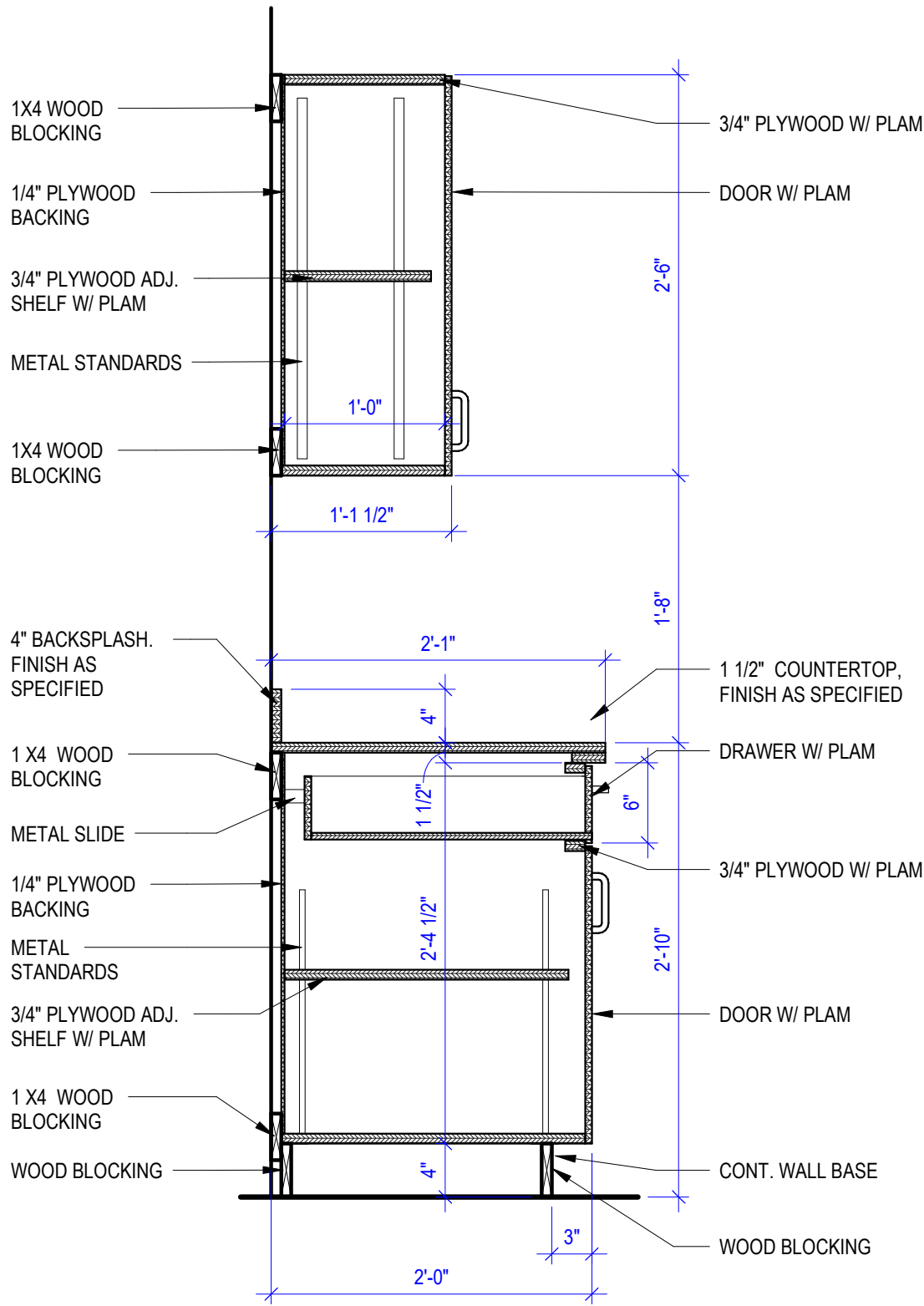


1/2" X 1/2" SOLID STEEL BARS ON EXTERIOR OF EXISTING WINDOWS. INSTALLED WITH 3" SECURITY SCREWS INTO EXISTING STUDS OF WINDOW CASE.

PRODUCT SIMILAR TO ORNAMENTAL SECURITY, INC INVISIBLE SECURITY BARS.



C3
1/2" = 1'-0" BREAK 107 - NORTH ELEVATION



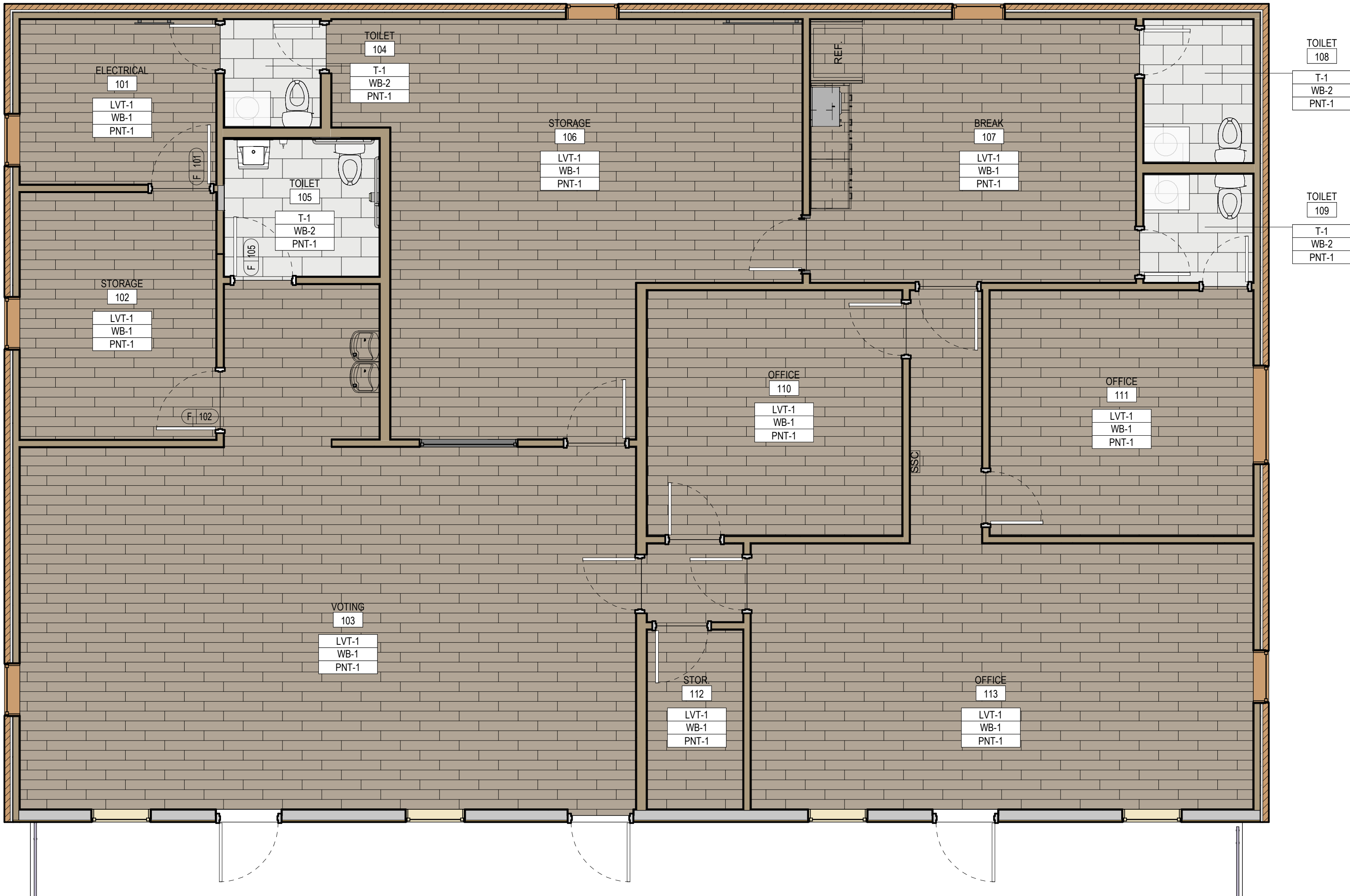
C5
1" = 1'-0" CABINET - DRAWER W/ UPPERS - ADA

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ROOM FINISH SCHEDULE							
NUMBER	NAME	FLOOR	BASE	WALL	NET AREA	PERIMETER	COMMENTS
101	ELECTRICAL	LVT-1	WB-1	PNT-1	84 SF	36'-10"	
102	STORAGE	LVT-1	WB-1	PNT-1	126 SF	45'-2 1/2"	
103	VOTING	LVT-1	WB-1	PNT-1	643 SF	121'-8 1/4"	
104	TOILET	T-1	WB-2	PNT-1	27 SF	20'-10"	
105	TOILET	T-1	WB-2	PNT-1	55 SF	29'-10"	
106	STORAGE	LVT-1	WB-1	PNT-1	398 SF	90'-9"	
107	BREAK	LVT-1	WB-1	PNT-1	222 SF	60'-0"	
108	TOILET	T-1	WB-2	PNT-1	41 SF	25'-9 1/2"	
109	TOILET	T-1	WB-2	PNT-1	31 SF	22'-3"	
110	OFFICE	LVT-1	WB-1	PNT-1	163 SF	51'-0"	
111	OFFICE	LVT-1	WB-1	PNT-1	168 SF	51'-10"	
112	STOR	LVT-1	WB-1	PNT-1	45 SF	28'-1"	
113	OFFICE	LVT-1	WB-1	PNT-1	394 SF	104'-0 1/2"	

MATERIAL SCHEDULE								
TAG	DESCRIPTION	SPEC	MANUFACTURER	NAME	COLOR	SIZE	INSTALL	COMMENTS
LUXURY VINYL TILE								
LVT-1	LUXURY VINYL TILE	09 6500	MANNINGTON; BO BROOKSBANK; 901-237-9292	SPACIA WOOD COLLECTION	TBD	7.25 IN X 48 IN	ASHLAR	
PAINT								
PNT-1	INTERIOR PAINT	09 9000	SHERWIN WILLIAMS		TBD			
PNT-2	INTERIOR PAINT	09 9000	SHERWIN WILLIAMS		TBD			ALL INTERIOR DOORS AND DOORS FRAMES TO BE PAINTED
PLASTIC LAMINATE								
PLAM-1	PLASTIC LAMINATE	06 4100	FORMICA; CYNDI G. SULLIVAN; 662-312-8503		TBD			
SOLID SURFACE								
SLD-1	SOLID SURFACE	12 3600	DURASEIN; JENNIFER WINSTEAD; 901-568-2570	TIMELESS	TBD			1/2" THICK; HALF BULLNOSE EDGE; ROUNDED CORNERS
TILE								
T-1	PORCELAIN TILE	09 3000	MILE STONE; JENNIFER WINSTEAD; 901-568-2570	AREA 51	STEEL	12" x 24"	RUNNING BOND	3/16" GROUT JOINT: INSTALL 1/3 OFFSET; LATICRETE SPECTRALOCK PRO PREMIUM GROUT; COLOR XXX
WB-2	PORCELAIN TILE WALL BASE	09 3000	MILE STONE; JENNIFER WINSTEAD; 901-568-2570	AREA 51	STEEL	3" X 12"		USE WITH TOE
WALL BASE								
WB-1	WALL BASE	09 6500	TARKETT; KIM FULTON; 615-393-4054	TYPE TP (THERMOPLASTIC RUBBER)	TBD			USE WITH TOE
WINDOW SHADE								
WS-01	MANUAL WINDOW SHADES	12 2400	MECHOSHADE; CHERIE SIMMONS; 770-519-0570	MECHO MANUAL SHADE SYSTEM	ECOVEIL SCREENS; 1350 SERIES; 5% OPEN; 1369 SILVER BIRCH			REFER TO FLOOR PLAN AND ELEVATIONS FOR SIZE



EQUIPMENT SCHEDULE				
TAG	MANUFACTURER	MODEL	DESCRIPTION	COMMENTS
EQ1	FRIGIDAIRE	FFTR1821TW	BREAK ROOM REFRIGERATOR, ITEM# 852886 - WHITE, 30"W X 29 7/8"D X 66 1/8"H	

SCHLUTER DILEX-AHK TRANSITION

CERAMIC TILE

CONCRETE SLAB

CERAMIC TILE BASE OR WALL TILE

SCHLUTER RENO-U TRANSITION

CERAMIC TILE

CONCRETE SLAB

RESILIENT FLOORING

A5
12" = 1'-0"

TILE FLOOR TO TILE WALL DETAIL - AHK

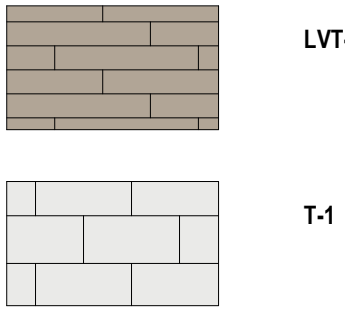
A6
12" = 1'-0"

TILE TO RESILIENT FLR TRANSITION

FINISH ABBREVIATIONS

- ALL GWB SURFACES TO BE PNT-1 UNLESS OTHERWISE INDICATED.
- ACT - ACOUSTIC CEILING TILE
- AWC - ACOUSTIC WALL COVERING
- CG - CORNER GUARD
- CLG - CEILING GWB COLOR
- CPT - CARPET
- EPNT - EPOXY PAINT
- EPX - EPOXY FLOORING
- FAB - FABRIC
- FRP - FIBER REINFORCED PLASTIC PANEL
- HDWF - HARDWOOD FLOORING
- LS - LINOLEUM SHEET FLOORING
- LT - LINOLEUM TILE
- LVT - LUXURY VINYL TILE
- MTL - METAL
- PC - POLISHED CONCRETE
- PLAM - PLASTIC LAMINATE
- PNT - PAINT COLOR
- QTZ - QUARTZ
- RBT - RUBBER TILE
- RF - RESINOUS FLOORING
- RFWB - RESINOUS FLOOR COVE WALL BASE
- RP - RESIN PANEL
- RBSF - RUBBER SHEET FLOORING
- RBST - RUBBER STAIR TREAD
- SC - SEALED CONCRETE
- SDF - STATIC DISSIPATIVE SHEET VINYL
- SDT - STATIC DISSIPATIVE TILE
- SLD - SOLID SURFACE
- ST - STAIN
- STC - STAINED CONCRETE
- SV - SHEET VINYL
- SVWB - INTEGRAL SHEET VINYL WALL BASE
- T - CERAMIC OR POCELAIN TILE
- TP - TOILET PARTITION
- TWB - TILE WALL BASE
- VCT - VINYL COMPOSITION TILE
- VWC - VINYL WALL COVERING
- WB - WALL BASE
- WDSF - WOOD SPORTS FLOOR
- WDWB - WOOD WALL BASE
- WF - WINDOW FILM
- WP - WALL PROTECTION
- WS - WINDOW SHADES
- WV - WOOD VENEER

FINISH LEGEND



D1

FLOOR PLAN - FINISHES



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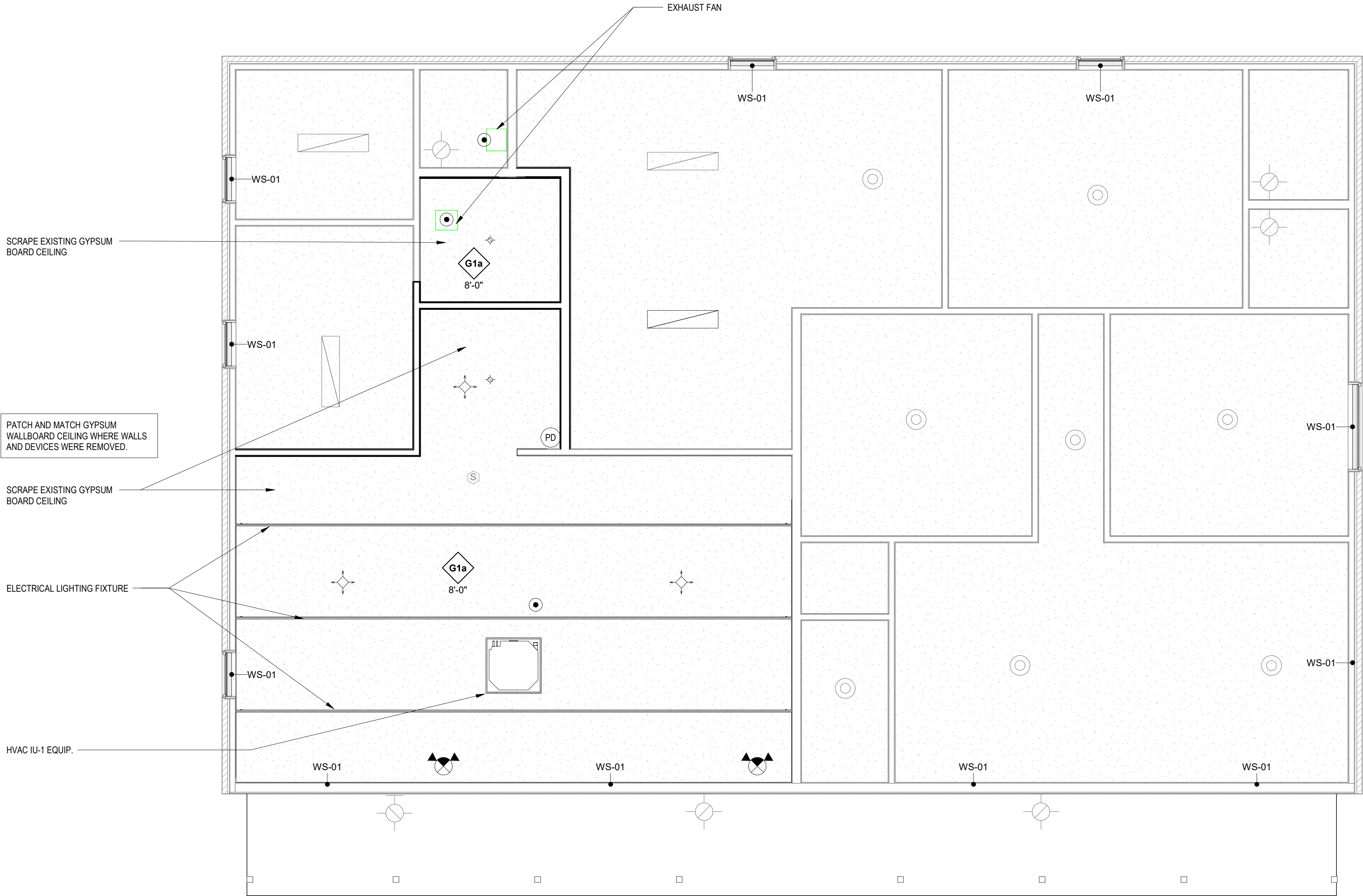
FINISH PLAN &
SCHEDULE

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CEILING SCHEDULE				
TYPE	DESCRIPTION / MODEL	EDGE PROFILE	SUSPENSION SYSTEM	COMMENTS
G1a	EXISTING GYPSUM BOARD, SCRAPPED SMOOTH, PAINTED	N/A	ATTACH TO STRUCTURE ABOVE	

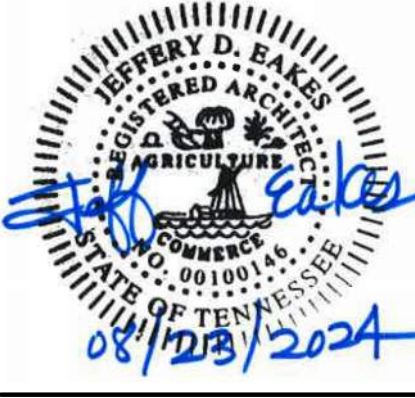


CEILING LEGEND	
	RECESSED 2X4 LIGHTING FIXTURE
	RECESSED 2X4 EMERGENCY LIGHTING FIXTURE
	SURFACE OR PENDANT MOUNTED STRIP OR INDUSTRIAL LIGHTING FIXTURE
	SURFACE OR PENDANT MOUNTED STRIP OR INDUSTRIAL EMERGENCY LIGHTING FIXTURE
	RECESSED LIGHTING FIXTURE
	RECESSED EMERGENCY LIGHTING FIXTURE
	EXIT LIGHT
	WALL MOUNTED EMERGENCY EGRESS LIGHT
	EXTERIOR WALL LIGHT
	INTERIOR WALL LIGHT
	OCCUPANCY SENSOR
	SMOKE DETECTOR
	INTERCOM SPEAKER
	CONCEALED SPRINKLER
	EXPOSED SPRINKLER
	WALL SPRINKLER
	FIRE ALARM HORN
	FIRE ALARM STROBE
	EXHAUST
	RETURN
	SUPPLY
	SUPPLY
	2 x 2 ACOUSTIC CEILING TILE
	2 x 4 ACOUSTIC CEILING TILE
	GYP. BD. CEILING
CEILING TAG	
	CEILING TYPE (REFER TO CEILING SCHEDULE)
	HEIGHT ABOVE FINISHED FLOOR

N.T.S.	CEILING LEGEND
--------	----------------

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REFLECTED CEILING
PLAN

A8.1



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FAN SCHEDULE															
MARK	No.	SERVICE	CFM	EXT. S.P. IN. W.G.	FAN RPM	DRIVE TYPE	MAX SONES	MOTOR		INTERLOCK	MANUFACTURER	MODEL NO.	OPENING	ACCESSORIES	COMMENTS
								BHP	ELECTRICAL						
EF	1	EF	75 CFM	0.24	900	DIRECT	0.4	0.1	115/60/1	LIGHT SWITCH	GREENHECK	SP-A90	11" x 13"	2.13	
EF	2	EF	75 CFM	0.24	900	DIRECT	0.4	0.1	115/60/1	OCCUPANCY SENSOR	GREENHECK	SP-A90	11" x 13"	2.13	

- (1) FAN TYPE:
1. CENTRIFUGAL ROOF EXHAUSTER
2. CEILING EXHAUST FAN
3. INLINE CENTRIFUGAL FAN
4. SIDEWALL PROPELLER FAN
5. SWSI CENTRIFUGAL UTILITY FAN
6. UPBLAST CENTRIFUGAL ROOF EXHAUSTER
- (2) SERVICE:
SF - SUPPLY FAN
EF - EXHAUST FAN
RF - RETURN FAN
TF - TRANSFER FAN

- (3) FAN ACCESSORIES:
1. ACCESS DOOR FOR INSPECTION
2. ELECTRICAL DISCONNECT SWITCH
3. BELT GUARD AND MOTOR GUARD
4. ADJUSTABLE SHEAVES
5. WALL SWITCH W/ PILOT LIGHT
6. MANUFACTURER'S PREFABRICATED INSULATED ROOF CURB (SLOPE AS REQUIRED)
7. ROOF JACK
8. WALL JACK
9. BRICK VENT
10. SOFFIT GRILLE
11. ROOF CAP W/ CURB
12. MOTORIZED BACKDRAFT DAMPER (SAME VOLTAGE AS FAN MOTOR OR W/ TRANSFORMER)
13. GRAVITY BACKDRAFT DAMPER
14. SOLID STATE SPEED CONTROLLER
15. EXTENDED BASE WITH ACCESS DOOR(NO VENTS) FOR 40" MIN. DISCHARGE HEIGHT
16. MOTOR AND DRIVE COMPARTMENT WEATHER HOOD
17. DRAIN CONNECTION
18. HINGED ACCESS DOORS
19. WALL HOUSING GUARD
20. DAMPER GUARD AND WALL MOUNT HOUSING

A1

N.T.S.

FAN SCHEDULE

MINI-SPLIT INDOOR UNIT SCHEDULE									
UNIT MARK	NO.	CFM LOW/HIGH	E.A.T. °F Db	E.A.T. °F Wb	RATED COOLING CAPACITY (@ 95° F) MBH	HEATING CAPACITY (@ 17° F) MBH	MCA	ELECTRICAL	MANUFACTURER
IU	1	475/270	80	67	17.7	12.9	0.54	208-230/1/60	208-230/1/60
									MITSUBISHI
									SLZ-KF18NA

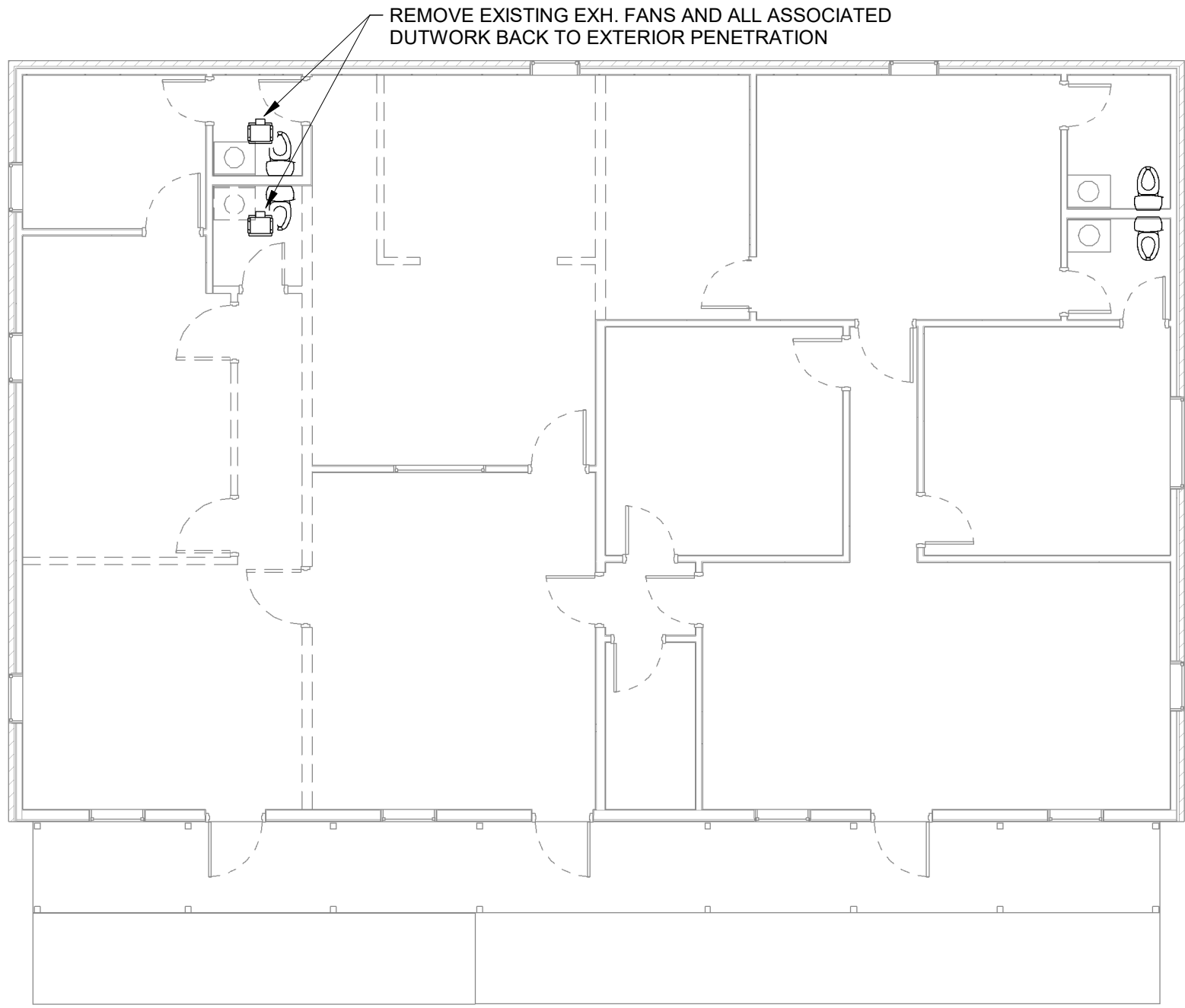
MINI-SPLIT OUTDOOR UNIT SCHEDULE									
UNIT MARK	NO.	COOLING CAPACITY @ 95°F O.A.D.B.	HEATING CAPACITY @ 17°F O.A.D.B.	ELECTRICAL	COMP. RLA	MCA	RECOMMENDED FUSE	MANUFACTURER	MODEL NO.
OU	1	17.7	12" - 10 13/16"	208-230/1/60	10	14	15	MITSUBISHI	SUZ-KA18NA2

- NOTES:
- INCLUDE FACTORY PROVIDED DISCONNECTS FOR EVERY OUTDOOR UNIT.
 - INDOOR UNITS RECEIVE POWER FROM OUTDOOR UNITS THROUGH FIELD-SUPPLIED INTERCONNECTED WIRING.
 - DIV. 26 SHALL PROVIDE FIELD INSTALLED DISCONNECTS AT EVERY INDOOR UNIT.
 - FURNISH ISOLATING BALL VALVES FOR EACH INDOOR UNIT.
 - CAPACITIES SHOWN ARE BASED ON OUTDOOR CONDITIONS OF 95°F db / 75°F wb. CAPACITIES WILL VARY BASED ON AMBIENT CONDITIONS.
 - PROVIDED FACTORY START-UP AND A MINIMUM OF TWO (2) DAY'S TRAINING FOR CLIENT'S OPERATIONS GROUP.
 - EQUIP EACH INDOOR UNIT WITH WIRED, WALL-MOUNTED REMOTE. WEB BASED CONTROLS NOT REQUIRED.

B1

N.T.S.

MINI SPLIT SYSTEM SCHEDULE

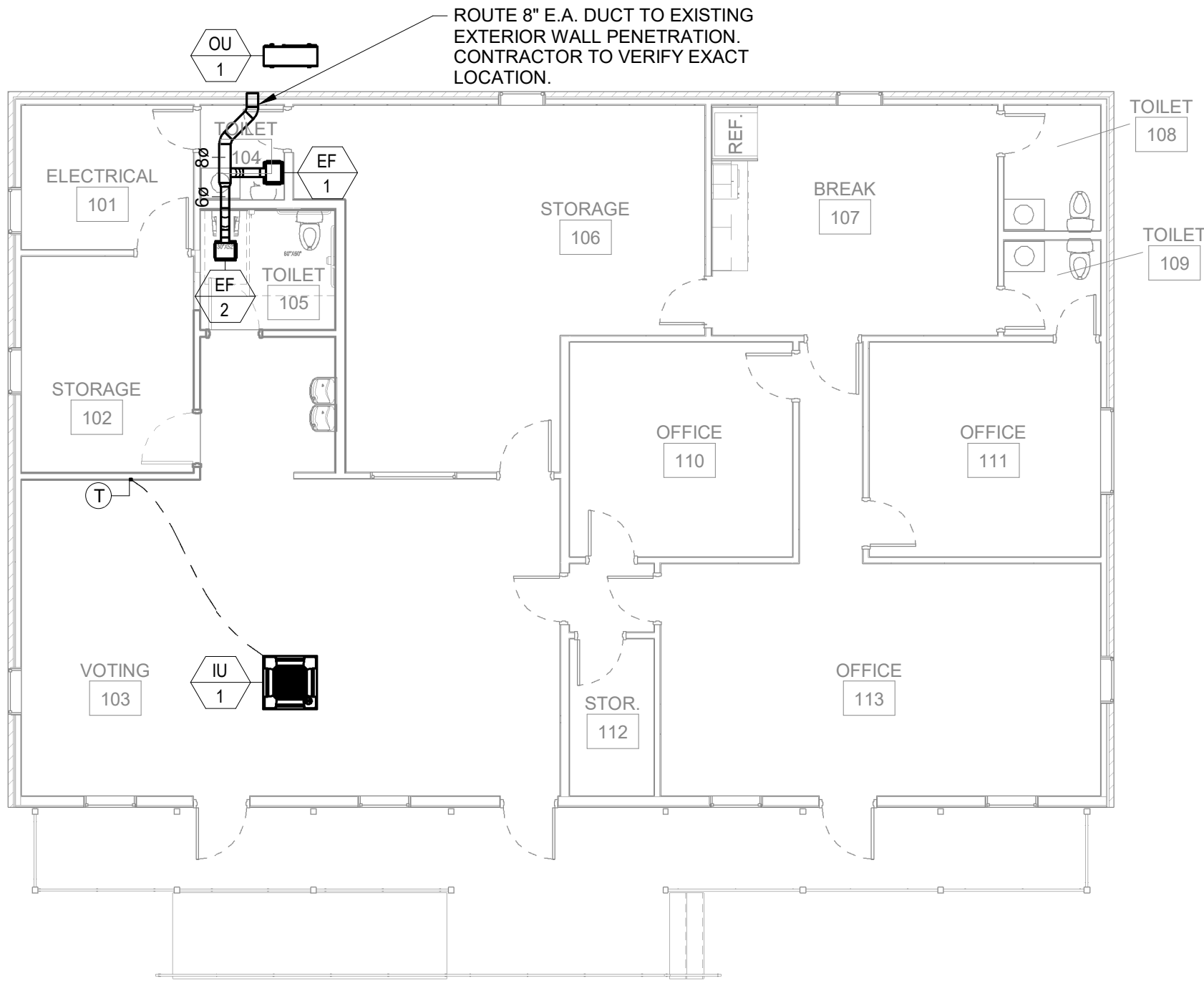


- NOTES:
- CONTRACTOR TO PRESERVE ALL DUCTWORK, DIFFUSERS, AND ASSOCIATED ACCESORIES (WHERE NOT NOTED OTHERWISE) WHERE CEILINGS ARE DEMOLISHED.

B4

1/8" = 1'-0"

DEMOLITION HVAC FLOOR PLAN



- NOTES:
- CONTRACTOR TO RELOCATE ALL PRESERVED DUCTWORK, DIFFUSERS, AND ASSOCIATED ACCESORIES (WHERE NOT NOTED OTHERWISE) INTO NEW CEILINGS AS REQUIRED.
 - OU-1 TO BE MOUNTED ON 4" THICK CONCRETE PAD. VERIFY SIZE WITH MNFR. REQUIREMENTS.

D4

1/8" = 1'-0"

HVAC FLOOR PLAN



THESE DRAWINGS ARE DIAGRAMMATIC COORDINATION OF ALL TRADES AND COMPLIANCE WITH DIMENSIONS ON ARCHITECTURAL AND STRUCTURAL DRAWINGS ARE REQUIRED

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HAYWOOD COUNTY

ELECTION
COMMISSION
BUILDING
RENOVATION

BROWNSVILLE, TN

CONSTRUCTION
DOCUMENTS

REVISIONS

PROJECT NO.	DATE
24282	AUG 23, 2023
DRAWN	CHECKED
MV	NDS

HVAC FLOOR PLAN

M1.1

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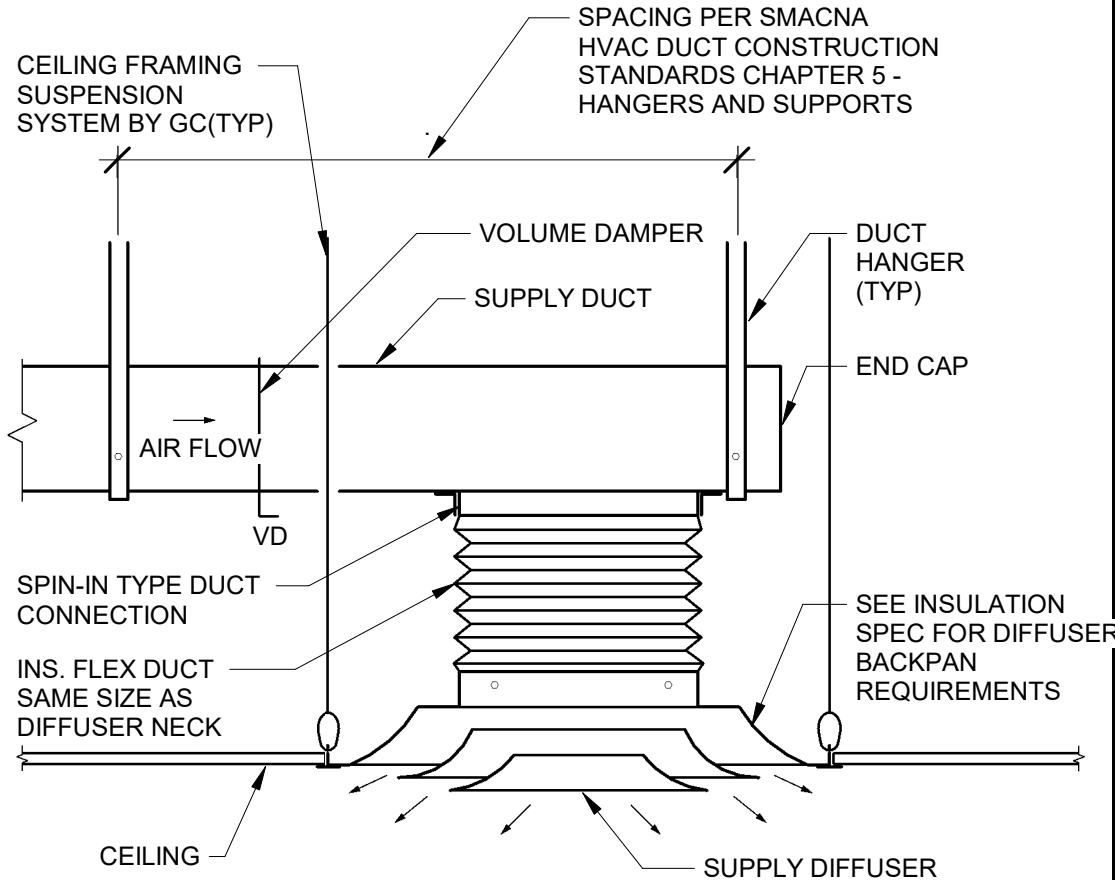
HVAC GENERAL PROJECT NOTES:

- COORDINATE INSTALLATION OF DUCTWORK WITH OTHER DIVISIONS.
- ALL DUCTWORK ASSOCIATED WITH THE MECHANICAL SYSTEMS SHALL BE INSTALLED AND SECURED PER APPLICABLE BUILDING CODES. PROVIDE ACCESS PANELS FOR ALL MECHANICAL EQUIPMENT INSTALLED ABOVE HARD CEILINGS OR IN FURRED CHASES REQUIRING ACCESS, SUCH AS VOLUME DAMPERS, PIPING VALVES, ETC.
- MECHANICAL CONTRACTOR SHALL INSTALL VOLUME DAMPERS IN AIR DUCTS TO NEW SUPPLY, RETURN, AND EXHAUST GRILLES, AS APPLICABLE. VOLUME DAMPERS SHALL BE LOCATED FOR ACCESS FROM LAY-IN CEILINGS OR ACCESS DOORS.
- THERMOSTAT HEIGHT SHALL BE 4'-0" ABOVE FINISHED FLOOR AND SHALL BE ALIGNED WITH LIGHT SWITCH WHERE SHOWN AT THE SAME LOCATION.
- MANUAL BALANCING DAMPERS SHALL BE LOCATED WHERE OPERATORS ARE ACCESSIBLE.
- DUCT SIZES SHOWN ARE NET DIMENSIONS MEASURED FROM THE INSIDE (UNLESS OTHERWISE NOTED).
- PROVIDE FLEXIBLE CONNECTIONS TO DUCTWORK AT ALL INDOOR UNITS, AS APPLICABLE.
- COORDINATE EXACT LOCATION OF ALL PIPING AND DUCT PENETRATIONS OF WALLS WITH STRUCTURAL BRACING.
- WHERE PIPING IS ROUTED THROUGH EXTERIOR WALL OF BUILDING PROVIDE "LINK SEAL" AND SLEEVES FOR PENETRATION OF WALL.
- DUCT LOCATIONS THROUGH MASONRY PARTITIONS AND BEARING WALLS MUST BE COORDINATED WITH OTHER OPENINGS AND WALL REINFORCING REQUIREMENTS SO THAT STRENGTH OF WALL IS NOT IMPAIRED.
- EVERY APPLIANCE SHALL BE LOCATED WITH RESPECT TO BUILDING CONSTRUCTION AND OTHER EQUIPMENT SO AS TO PERMIT ACCESS AND SERVICE PER ALL THE REQUIREMENTS OF 2018 IMC INCLUDING, BUT NOT LIMITED TO, SECTIONS 303 AND 304, AS WELL AS THE REQUIREMENTS OF 2018 IFGC INCLUDING, BUT NOT LIMITED TO SECTIONS 303, 304, AND 305.
- EQUIPMENT AND APPLIANCES SHALL BE INSTALLED AS REQUIRED BY THE TERMS OF THEIR APPROVAL, IN ACCORDANCE WITH THE CONDITIONS OF THE LISTING, THE MANUFACTURER'S INSTALLATION INSTRUCTIONS, AND THE 2018 IMC. MANUFACTURER'S INSTALLATION INSTRUCTIONS SHALL BE AVAILABLE ON THE JOB SITE AT THE TIME OF INSPECTION PER 2018 IMC, SECTION 304.1. WHERE CONFLICTS EXIST BETWEEN THE DRAWINGS, 2018 IMC, AND THE CONDITIONS OF THE LISTING OR THE MANUFACTURER'S INSTALLATION INSTRUCTIONS, THE PROVISIONS OF 2018 IMC SHALL APPLY. WHERE A CODE PROVISION IS LESS RESTRICTIVE THAN THE CONDITIONS OF THE LISTING OF THE EQUIPMENT OR APPLIANCE THE MANUFACTURER'S INSTALLATION INSTRUCTIONS, THE CONDITIONS OF THE LISTING AND THE MANUFACTURER'S INSTALLATION INSTRUCTIONS SHALL APPLY.
- PERMITS SHALL BE APPLIED FOR BY A LICENSED MECHANICAL, GAS OR FIRE PROTECTION CONTRACTOR.
- PROTECTION OF HVAC SYSTEM DURING CONSTRUCTION: ALL HVAC EQUIPMENT SHALL BE PROTECTED FROM DUST AND OTHER PARTICULATE MATTER. ALL SITE AND/OR INSTALLED ABSORPTIVE MATERIALS SHALL BE PROTECTED FROM MOISTURE DAMAGE. ALL DUCT AND EQUIPMENT OPENINGS SHALL BE PROPERLY SEALED.
- THE DRAWINGS ARE DIAGRAMMATIC AND SHOW GENERAL MECHANICAL LAYOUTS FOR BIDDING PURPOSES ONLY. DRAWINGS ARE NOT SHOP DRAWINGS. THE ABOVE CEILING SPACE IS LIMITED WITH MANY TRADES WORKING IN THE SAME AREA. WORK MUST BE COORDINATED IN DETAIL WITH OTHER TRADES AND EXISTING CONDITIONS TO AVOID CONFLICTS. IT IS THE RESPONSIBILITY OF THE MECHANICAL CONTRACTOR TO PREPARE DETAILED SHOP DRAWINGS; FIELD VERIFY ALL EXISTING CONDITIONS, CONFIRM SPACE ALLOCATIONS, AND COORDINATE WITH THE WORK OF OTHER TRADES. MINOR ADJUSTMENTS SHALL BE MADE TO NEW PIPE, DUCT, AND EQUIPMENT LOCATIONS AND SIZES TO MATCH ACTUAL FIELD CONDITIONS SUCH THAT COMPONENTS FIT ABOVE FINISHED CEILINGS IN THE AVAILABLE SPACE. FIELD VERIFY CONDITIONS AND DIMENSIONS, AS NEEDED, PRIOR TO PREPARING SHOP DRAWINGS, ORDERING EQUIPMENT, OR BEGINNING WORK. WHERE A CONFLICT WILL EXIST (FIT, FORM, OR FUNCTION), CONTRACTOR SHALL IMMEDIATELY NOTIFY DESIGN ENGINEER PRIOR TO PROCEEDING WITH WORK.
- WHERE APPLIANCES ARE INSTALLED ABOVE A DROP CEILING AND HAVE THEIR LOWEST POINT AT AN ELEVATION OF 10 FT. A.F.F. OR MORE, A WORK SURFACE WITH A NON-COMBUSTIBLE MATERIAL SHALL BE CONSTRUCTED ON THE SERVICE SIDE OF THE EQUIPMENT.
- EQUIPMENT AND APPLIANCES SHALL BE INSTALLED PER THE MANUFACTURER'S INSTALLATION INSTRUCTIONS, AND THESE INSTRUCTIONS MUST BE ON THE JOB SITE AT THE TIME OF INSPECTION. IMC 304.1
- THE ELECTRICAL CONDUCTORS SUPPLYING THE DISCONNECTING MEANS FOR AIR CONDITIONING EQUIPMENT SHALL NOT ENTER THE AIR CONDITIONING EQUIPMENT ENCLOSURE UNLESS THE DISCONNECTING MEANS IS AN INTEGRAL PART OF THE LISTED EQUIPMENT. UNDER NO CIRCUMSTANCES SHALL A DISCONNECTING MEANS BLOCK THE ACCESS DOORS OR THE EQUIPMENT DATA PLATE
- A LICENSED MECHANICAL AND OR GAS CONTRACTOR SHALL OBTAIN A PERMIT(S) PRIOR TO COMMENCING ANY WORK FOR WHICH THE MECHANICAL OR GAS CODE REQUIRE A PERMIT.

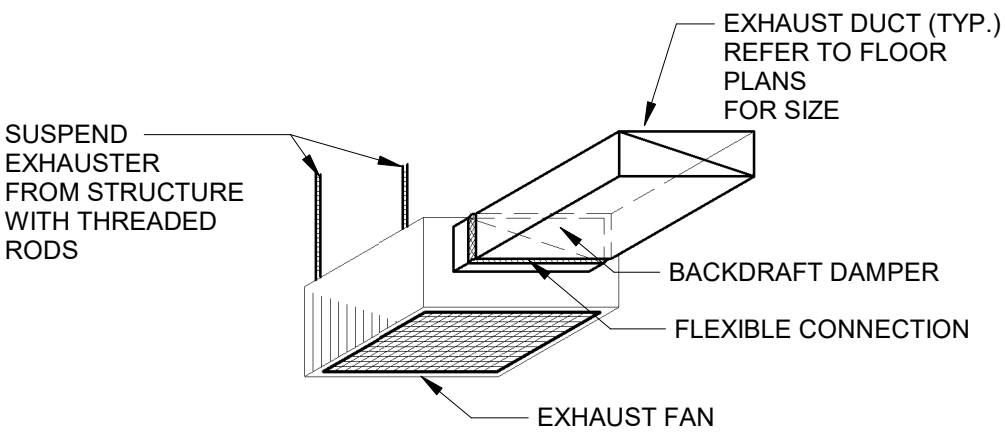
C1
N.T.S. HVAC GENERAL NOTES

HVAC LEGEND	
SYMBOL	DESCRIPTION
	RECTANGULAR DUCT W=WIDTH H=HEIGHT
	OVAL DUCT W=WIDTH H=HEIGHT
	ROUND DUCT X=DIAMETER
	FLEXIBLE DUCTWORK
	90 DEGREE ELBOW WITH TURNING VANES
	MANUAL VOLUME DAMPER
	FIRE DAMPER
	CAPPED PIPE
	NATURAL GAS PIPING
	HOT WATER SUPPLY PIPING
	HOT WATER RETURN PIPING
	REFRIGERANT PIPING
	CONDENSATE PIPING
	SUPPLY DIFFUSER
	RETURN/AIR TRANSFER DIFFUSER
	EXHAUST DIFFUSER
	THERMOSTAT (48" A.F.F.)
	NEW PLAN KEY NOTE
	MECHANICAL EQUIPMENT TAG X=ABBREVIATION X=UNIT NUMBER

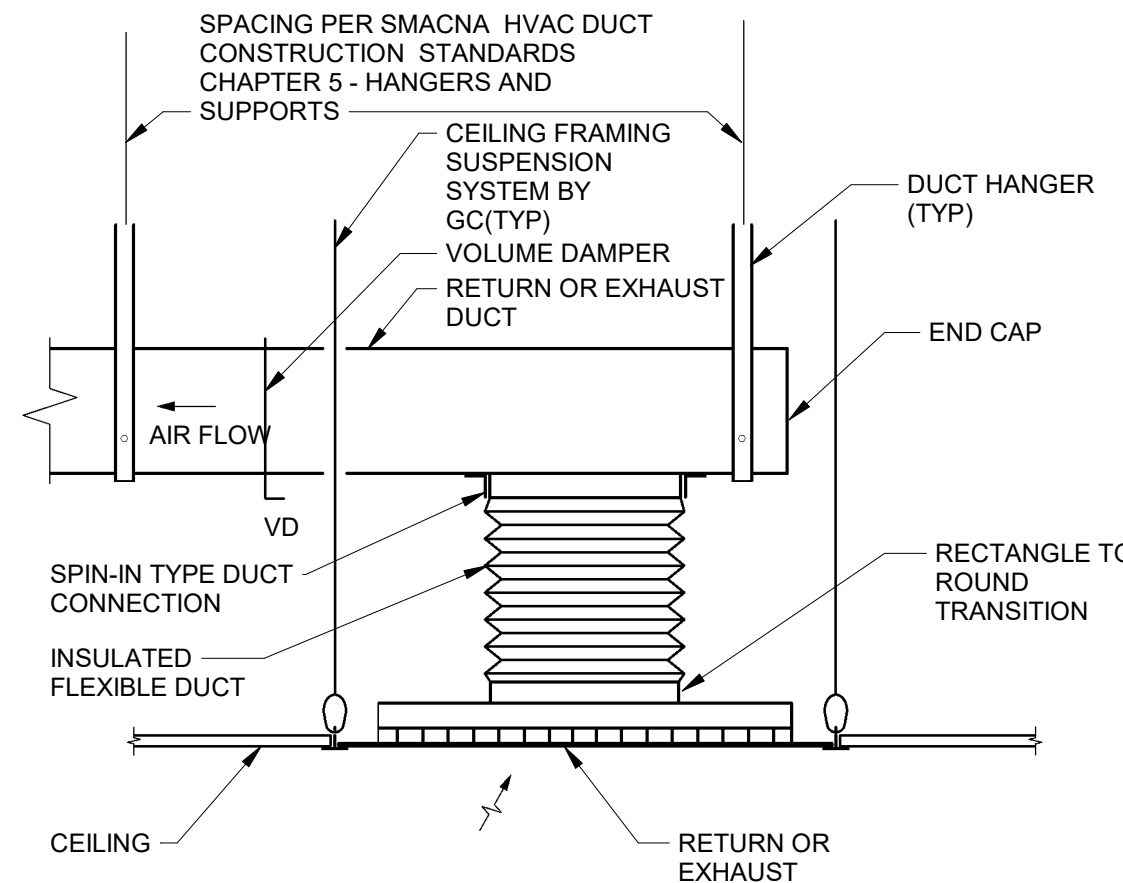
B2
N.T.S. HVAC LEGEND



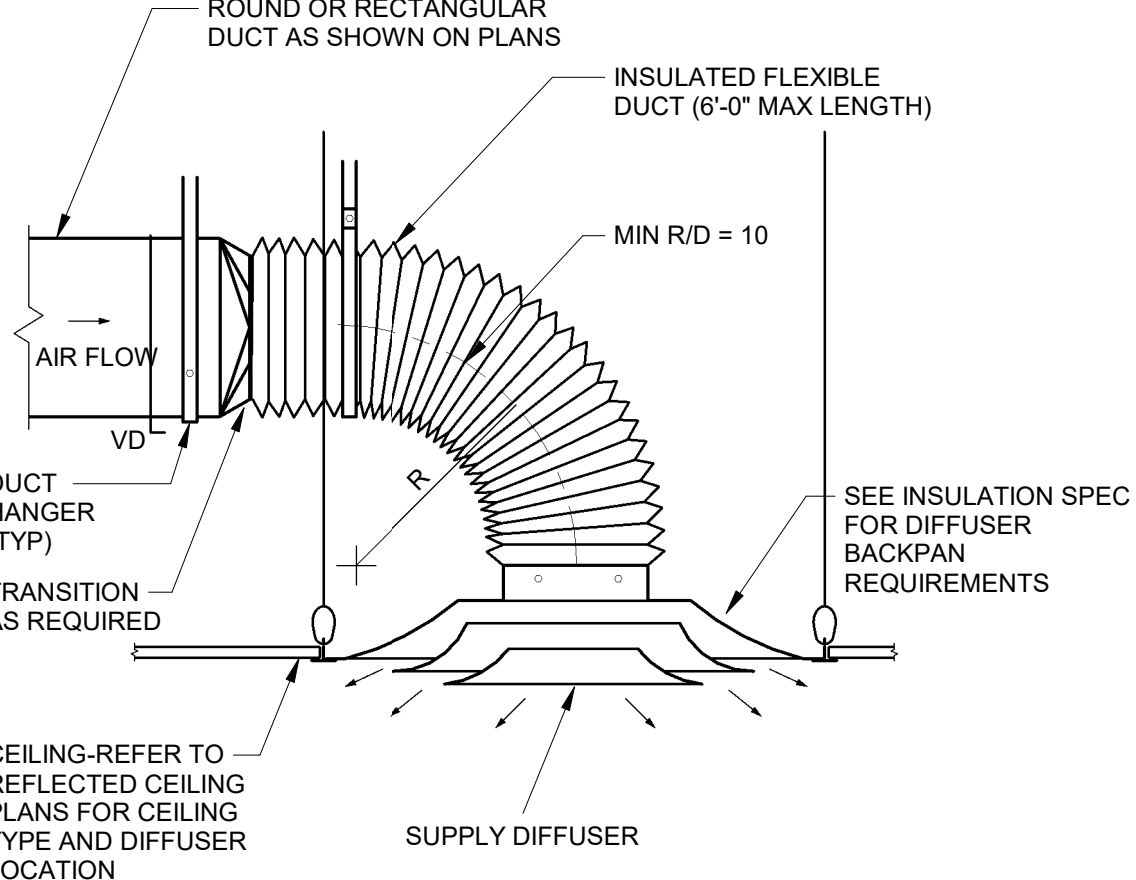
C2
N.T.S. TYPICAL CEILING DIFFUSER DETAIL



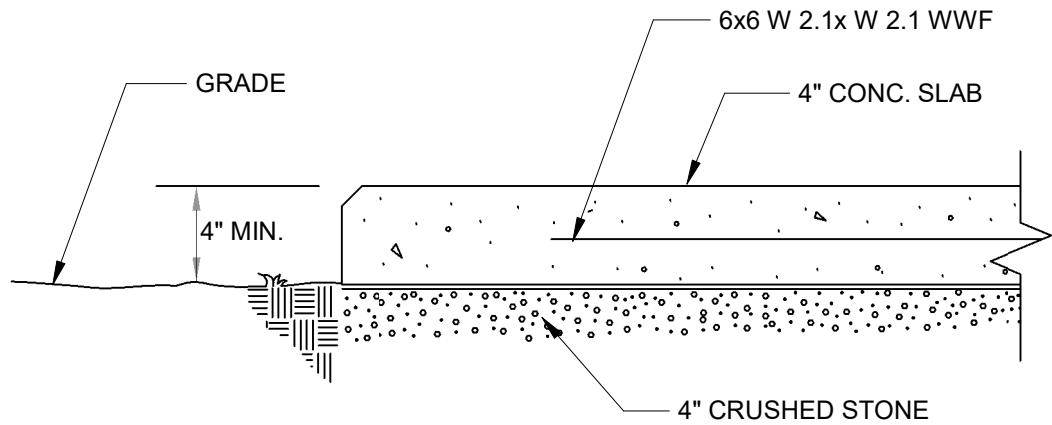
A3
N.T.S. CEILING EXHAUSTER DETAIL



B3
N.T.S. TYPICAL RETURN/EXHAUST REGISTER



C3
N.T.S. TYPICAL CEILING DIFFUSER DETAIL



NOTE:
FINAL OVERALL DIMENSIONS SHALL BE DETERMINED BY CLEARANCES AND SIZES OF EQUIPMENT.

D3
N.T.S. CONCRETE PAD DETAIL

DIVISION 23 - HEATING, VENTILATING, AND AIR CONDITIONING
SECTION 23 00 00 - GENERAL PROVISIONS - MECHANICAL
PART 1 - GENERAL

1.01 RELATED DOCUMENTS

- DRAWINGS AND THE GENERAL CONDITIONS, INSTRUCTIONS TO BIDDERS, AND ALL OTHER GENERAL REQUIREMENTS OF THESE SPECIFICATIONS SHALL BE CONSIDERED A COMPONENT OF THE DIVISION OF THE SPECIFICATIONS.
- THIS SECTION OF THE SPECIFICATIONS INCLUDES GENERAL PROVISIONS APPLICABLE TO ALL WORK OF DIVISION 23.
- THIS CONTRACTOR SHALL EXAMINE ALL OTHER DIVISIONS OF THE SPECIFICATIONS AND ALL DRAWINGS FOR THE PROJECT AND SHALL FAMILIARIZE HIMSELF WITH ALL FEATURES OF THE PROJECT THAT MAY AFFECT HIS WORK.

1.02 CONTRACT DOCUMENTS

- REFER TO AND COMPLY WITH ALL OTHER SECTIONS OF THESE SPECIFICATIONS IN THE INSTALLATION OF ALL MECHANICAL WORK.
- DRAWINGS ARE DIAGRAMMATIC; THEREFORE, ALL OFFSETS, FITTINGS, VALVES AND ACCESSORIES ARE NOT SHOWN. PLAN WORK AROUND BUILDING DETAILS AND OTHER CRAFTS.

1.03 CODES, ORDINANCES, INSPECTIONS AND PERMITS

- WORK IS TO BE EXECUTED AND INSPECTED IN ACCORDANCE WITH LOCAL AND STATE CODES, LAWS, ORDINANCES, RULES AND REGULATIONS APPLICABLE TO PARTICULAR CLASS OF WORK, AND ANY FEES IN CONNECTION THEREWITH ARE TO BE PAID BY THE CONTRACTOR.
- ARRANGE WITH CITY, OR STATE IF CITY HAS NO ORDINANCES COVERING WORK, FOR COMPLETE INSPECTION, PAYING ALL CHARGES PERTAINING THERETO.

1.04 SHOP DRAWINGS, SUBMITTALS AND SUBSTITUTIONS

- SUBMIT WITHIN 30 DAYS AFTER NOTICE TO PROCEED, MANUFACTURER'S CATALOG SHEETS AND/OR SHOP DRAWINGS COVERING ALL PHASES OF WORK INCLUDED IN THIS CONTRACT.
- SUBMITTALS SHALL BE COMPLETE, ARRANGED IN SETS AND BOUND IN FOLDERS. NO LOOSE SHEETS OR PARTIAL SUBMITTALS WILL BE ACCEPTABLE.
- SUBMITTALS ARE REQUIRED EVEN THOUGH EQUIPMENT BEING FURNISHED IS EXACTLY AS SPECIFIED.
- FINAL DECISION AS TO WHETHER OR NOT A SPECIFIC PIECE OF EQUIPMENT MEETS SPECIFICATIONS SHALL REST WITH ARCHITECT-ENGINEER.
- SHOULD ANY PROPOSED SUBSTITUTION REQUIRE MODIFICATIONS TO THE ELECTRICAL SYSTEM (I.E., WIRE SIZES, DISCONNECTS, FUSES, ETC.), SUCH MODIFICATIONS SHALL BE COORDINATED WITH THE ELECTRICAL CONTRACTOR AND SHALL BE MADE TO THE COMPLETE SATISFACTION OF THE ARCHITECT-ENGINEER WITHOUT ADDITIONAL COST TO THE OWNER.

1.05 WARRANTY AND OPERATION INSTRUCTIONS

- ALL MATERIALS AND EQUIPMENT SHALL CARRY A FULL YEAR'S WARRANTY FROM TIME OWNER ACCEPTS BUILDING OR THE DATE OF SUBSTANTIAL COMPLETION, WHICHEVER IS EARLIER, REGARDLESS OF START-UP DATE OF EQUIPMENT, UNLESS A LONGER WARRANTY PERIOD IS SPECIFIED UNDER OTHER PARAGRAPHS OF THIS SECTION.
- TURN OVER TO OWNER ALL OPERATION INSTRUCTIONS AND WARRANTIES FURNISHED WITH EQUIPMENT.

1.06 EQUIPMENT CONNECTIONS

- EACH EQUIPMENT ITEM, WITH DRAIN CONNECTIONS, SHALL BE PROVIDED WITH A PROPERLY SIZED DRAIN RUN TO THE NEAREST FLOOR DRAIN OR AS DIRECTED.
- ROUGH-IN AND MAKE FINAL CONNECTION TO ALL EQUIPMENT FURNISHED UNDER OTHER DIVISIONS OF THESE SPECIFICATIONS OR BY THE OWNER.
- CONTRACTOR SHALL INSTALL ROUGH-INS ONLY AFTER HE HAS RECEIVED APPROVED SHOP DRAWINGS OR HAS OBTAINED DRAWINGS AND/OR SPECIFICATIONS FOR EQUIPMENT PROVIDED BY OWNER AND/OR OWNER'S VENDOR.

1.07 FLASHINGS

- ROOF FLASHINGS ARE TO BE FURNISHED AND INSTALLED UNDER THE ROOFING DIVISION OF THESE SPECIFICATIONS.

1.08 CUTTING AND PATCHING

- PROVIDE ALL CUTTING AND PATCHING REQUIRED TO PERFORM THE MECHANICAL WORK.
- ALL PATCHING SHALL BE DONE BY WORKMEN SKILLED IN THE TRADE REQUIRED.

1.09 EXCAVATION, TRENCHING AND BACKFILLING

- ALL EXCAVATION, TRENCHING AND BACKFILLING IN CONNECTION WITH THE MECHANICAL SYSTEM IS INCLUDED AS PART OF THIS DIVISION.
- ALL EXCAVATION REQUIRED SHALL BE DONE AS PART OF THE BID PRICE REGARDLESS OF ANY IMPLIED CONDITIONS ON THE PLANS OR IN THESE SPECIFICATIONS.

1.10 SUPPORTS & FOUNDATIONS

- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE MISCELLANEOUS SUPPORTING SYSTEMS.
- PROVIDE ADEQUATE PIPE, EQUIPMENT FOUNDATION AND SUSPENSION SYSTEMS IN ACCORDANCE WITH RECOGNIZED ENGINEERING PRACTICES.
- PIPE HANGERS SHALL BE EQUAL TO THOSE MANUFACTURED BY B-LINE.

1.11 ELECTRICAL

- FURNISH AND INSTALL ALL ELECTRICAL INTERLOCK AND CONTROL WIRING FOR PROPER OPERATION AND CONTROL OF ALL MECHANICAL EQUIPMENT.
- SUPERVISE AND COORDINATE ALL ELECTRICAL WORK IN CONNECTION WITH MECHANICAL SYSTEM.
- FURNISH ALL MOTOR CONTROLLERS OR CONTRACTORS FOR PROPER OPERATION OF ALL MOTORS.

1.12 TESTING AND ADJUSTING

- TEST ALL PIPING SYSTEMS. TEST BURIED PIPE BEFORE BACKFILLING.
- PERFORM OPERATIONAL TESTING OF HVAC EQUIPMENT AND BALANCING OF AIR DISTRIBUTION SYSTEM. BALANCING SHALL BE PERFORMED BY AN AGENCY CERTIFIED BY THE ASSOCIATED AIR BALANCE COUNCIL (AABC) OR BY THE NATIONAL ENVIRONMENTAL BALANCING BUREAU (NEBB). ALL WORK SHALL BE BY QUALIFIED TECHNICIANS UNDER DIRECT SUPERVISION OF A CERTIFIED TEST AND BALANCE ENGINEER. PROVIDE A FINAL TEST AND BALANCE REPORT TABULATING RESULTS OF AIR BALANCE. DIFFUSERS SHALL BE BALANCED TO WITHIN 10 PER CENT OF DESIGN REQUIREMENTS.
- OPERATE ALL HVAC EQUIPMENT FOR A SUFFICIENT PERIOD OF TIME TO DEMONSTRATE THAT IT IS OPERATING PROPERLY.
- CONTRACTOR WILL BE REQUIRED TO MAKE ADJUSTMENT AS NECESSARY DURING THE FIRST YEAR.

PART 2 - HVAC

2.01 EQUIPMENT

- EQUIPMENT SHALL BE EQUAL TO THAT SCHEDULED ON THE DRAWINGS.
- ALL EXPOSED ROTATING MACHINERY SHALL BE EQUIPPED WITH GUARDS.
- ALL REFRIGERATION COMPRESSORS SHALL CARRY AN ADDITIONAL FOUR-YEAR WARRANTY.

2.02 PIPING

- REFRIGERANT: TYPE "K" COPPER WITH WROUGHT COPPER FITTINGS FOR REFRIGERANT USE. PRE-CHARGED LINES MAY BE USED.
- CONDENSATE DRAIN: TYPE "L" OR "DWV" COPPER. SCHEDULE 40 PVC MAY BE USED, UNLESS DRAIN LINE IS LOCATED WITHIN A RETURN AIR PLENUM.
- NATURAL GAS: SCHEDULE 40 BLACK STEEL WITH MALLEABLE IRON OR WELDING FITTINGS. ALL CONCEALED AND BELOW GRADE PIPE SHALL BE WELDED. PIPE BELOW GRADE SHALL BE COATED AND WRAPPED AND SHALL HAVE CATHODIC PROTECTION.

2.03 VALVES

- GAS COCKS:
 - 1/2" TO 2": CRANE NO. 324
 - 2 1/2" TO 12": NORDSTROM NO. 143.

2.04 INSULATION

- CONDENSATE DRAIN (OVERHEAD HORIZONTAL): ARMSTRONG'S "AP ARMAFLEX" PIPE INSULATION, 1/2" THICK.
- REFRIGERANT SUCTION: ARMSTRONG'S "AP ARMAFLEX", 3/4" THICK.
- [ROUND] DUCTWORK: OWENS-CORNING, 2" THICK FIBERGLASS FACED DUCT WRAP TYPE 100 WITH FACTORY APPLIED FLAME-RETARDANT FOIL-REINFORCED KRAFT-FACING. (DUCTWORK SHALL BE WRAPPED UNLESS SHOWN OTHERWISE.)
- DUCT LINER SHALL BE EQUAL TO OWENS-CORNING FIBERGLASS AEROFLEX [TYPE 150, 1" THICK.] [TYPE 200, 2" THICK]. DUCT SIZES SHOWN ARE SHEET METAL SIZES.

2.05 SHEET METAL

- SHEET METAL DUCTWORK SHALL BE INSTALLED IN ACCORDANCE WITH ASHRAE HANDBOOK AND SMACNA HVAC DUCT CONSTRUCTION STANDARDS.
- DUCTWORK SHALL BE NEW, PRIME QUALITY, GALVANIZED STEEL. RUNOUTS TO DIFFUSERS MAY BE MADE USING FACTORY INSULATED FLEXIBLE DUCTING. INSULATION SHALL BE ONE INCH MINIMUM THICKNESS GLASS FIBER FLEXIBLE BLANKET TYPE, WITH SUITABLE VAPOR BARRIER. FLEXIBLE DUCT SHALL BE UL LISTED CLASS 1 CONNECTOR OR AIR DUCT MATERIAL, STANDARD 181 WITH MANUFACTURER'S PRESSURE RATING OF AT LEAST 150 PERCENT OF THE MAXIMUM OPERATING PRESSURE OF THE SYSTEM INVOLVED. MAXIMUM LENGTH SHALL BE THREE FEET.
- PROVIDE FLEXIBLE CONNECTIONS AT EACH AIR-HANDLING DEVICE WITH FAN.
- PROVIDE ADEQUATE DAMPERS SO THAT THE DAMPERS AT THE GRILLES ARE NOT REQUIRED TO BALANCE THE SYSTEM.
- GRILLES, DIFFUSERS AND REGISTERS SHALL BE EQUAL TO THOSE SHOWN ON THE DRAWINGS.
- FURNISH ACCESS DOORS TO FACILITATE MAINTENANCE OF SMOKE DETECTORS AND ACCESS TO BALANCING DAMPERS LOCATED ABOVE CEILINGS. ACCESS DOORS SHALL BE EQUAL TO MILCOR OR BOICO, STEEL OR ALUMINUM ASSEMBLIES, WITH HINGED DOORS, LOCKING CATCHES, AND SUITABLE FRAMES TO ACCOMMODATE BUILDING CONSTRUCTION INVOLVED, SIZES AS REQUIRED, BUT NOT SMALLER THAN 12 X 12 INCHES. ACCESS DOORS SHALL BE FACTORY-FINISH PAINTED TO MATCH COLOR OF BUILDING CONSTRUCTION INVOLVED.

2.06 CONTROLS

- PROVIDE ALL TEMPERATURE CONTROLS IN ACCORDANCE WITH RECOMMENDATIONS OF THE EQUIPMENT MANUFACTURER.
- CONTROLS SHALL BE ELECTRIC TYPE.
- PROVIDE ALL WIRING, ETC. REQUIRED FOR COMPLETE AND OPERATING SYSTEM.
- FURNISH COMPLETE WIRING DIAGRAMS SHOWING ALL INTERLOCK WIRING IN ADDITION TO TEMPERATURE CONTROL WIRING DIAGRAMS. WIRING IS TO BE COLOR-CODED AND INSTALLED IN ACCORDANCE WITH NEC.

END OF SECTION 23 00 00

D4
N.T.S. HVAC SPECIFICATIONS

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HAYWOOD COUNTY

ELECTION
COMMISSION
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BROWNSVILLE, TN

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MY	NDS

HVAC DETAILS

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- THESE DRAWINGS ARE DIAGRAMMATIC AND SHOW GENERAL PLUMBING LAYOUTS AND PIPE ROUTING FOR BIDDING PURPOSES ONLY. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO PREPARE DETAILED SHOP DRAWINGS AND TO CONFIRM SPACE ALLOCATIONS.
- SEE ARCHITECTURAL AND STRUCTURAL DRAWINGS FOR ALL BUILDING DIMENSIONS, DETAILS, ELEVATIONS, AND EXACT LOCATION OF FIXTURES.
- CONTRACTOR SHALL VERIFY ALL FLOW LINES PRIOR TO ROUGHING IN.
- ALL WORK SHALL CONFORM TO THE LOCAL PLUMBING CODE, LOCAL BUILDING CODES, AND STATE HEALTH REGULATIONS HAVING JURISDICTION. ALL HAND LAYS DESIGNATED AS HANDICAPPED WITH EXPOSED PIPING SHALL BE PROVIDED WITH INSULATION KITS COVERING SINK DRAINS AND SINK SUPPLIES.
- PLUMBING CONTRACTOR SHALL REVIEW ARCHITECTURAL, STRUCTURAL, ELECTRICAL, AND MECHANICAL DRAWINGS AND COORDINATE HIS WORK WITH ALL OTHER TRADES FOR PIPE ROUTING AND EQUIPMENT PLACEMENT. AVOID INTERFERENCE WITH ARCHITECTURAL FEATURES, BEAMS, FOOTINGS, WINDOWS, NOTIFY ARCHITECT OF ANY CONFLICTS.
- CONTRACTOR MAY RE-ROUTE PLUMBING TO AVOID CONFLICT WITH OTHER TRADES AFTER FIRST RECEIVING THE APPROVAL OF THE ARCHITECT / ENGINEER.
- PLUMBING CONTRACTOR SHALL COORDINATE WITH ELECTRICAL CONTRACTOR ALL VOLTAGES, ELECTRICAL LOADS, ETC. OF ELECTRICALLY OPERATED EQUIPMENT PRIOR TO ORDERING. ALL WIRING BY ELECTRICAL CONTRACTOR.
- PLUMBING CONTRACTOR SHALL FURNISH ACCESS PANELS TO BE INSTALLED BY GENERAL CONTRACTOR AS REQUIRED FOR PLUMBING INSTALLATIONS.
- ALL VALVES AND SHOKSTOPS SHALL BE ACCESSIBLE.
- PROVIDE AIR CUSHIONS FOR ALL FIXTURES THAT DO NOT HAVE SHOKSTOPS.
- SLEEVES SHALL BE INSTALLED WHERE PIPING PASSES THROUGH STRUCTURE.
- ALL PENETRATIONS THRU RATED WALLS OR FLOORS SHALL BE SEALED WITH AN APPROVED U.L. LISTED FIREPROOFING TO MAINTAIN THE INTEGRITY OF THE WALL OR FLOOR.
- PIPE VIBRATION AND/OR PIPE SWAY WILL NOT BE PERMITTED.
- PROVIDE SUITABLE BACKING AND SUPPORT FOR ALL PLUMBING FIXTURES.
- OFFSET ALL V.T.R.'S AS REQUIRED WHETHER OR NOT SHOWN ON DRAWINGS.
- ALL V.T.R.'S SHALL BE A MINIMUM OF 15 FT. AND/OR AS REQUIRED BY CODE AWAY FROM A/C INTAKES WHETHER OR NOT SHOWN ON PLANS.
- ALL PIPING SHALL BE LABELED.
- UPON COMPLETION OF WORK COVERED BY THIS CONTRACT, FURNISH THE OWNER WITH ONE (1) SET OF REPRODUCIBLE "AS-BUILT" DRAWINGS WHICH SHOW ALL PLUMBING INSTALLED UNDER THIS CONTRACT.
- ALL WATER LINES RUN IN EXTERIOR WALLS SHALL BE LOCATED BETWEEN GYPBOARD & INSULATION TO PREVENT FREEZING. INSULATE ALL WATER LINES IN EXTERIOR WALLS WITH 2" THICK INSULATION. EXTERIOR WALL BUILDING INSULATION SHALL COMPLETELY ENCOMPASS INSULATED PLUMBING PIPING WITHIN STUD CAVITY.
- FOR DEMOLITION AND/OR RENOVATIONS, ALL HOLES THRU CONCRETE SHALL BE CORE-DRILLED, SAW-CUT ALL CONCRETE AND ASPHALT BEFORE BREAKING AND REMOVING.
- INFORMATION OF EXISTING SERVICES WAS TAKEN FROM OWNER'S DRAWINGS. FIELD LOCATE ALL EXISTING SERVICES PRIOR TO STARTING ANY WORK.
- IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO ENSURE THAT ALL WATER DISTRIBUTION PIPING IS ROUTED IN AREAS THAT ARE NOT SUBJECT TO FREEZING TEMPERATURES. IF PIPING IS SHOWN ROUTED IN SUCH AREAS AND NO PROVISION FOR FREEZE PROTECTION IS INDICATED, THE CONTRACTOR SHALL NOTIFY THE ARCHITECT / ENGINEER IMMEDIATELY. PRIOR TO ANY SLAB DEMOLITION, CONTRACTOR SHALL LOCATE PIPING, ELECTRICAL CONDUIT, OR OTHER EQUIPMENT. ANY DAMAGE INCURRED BY THE GENERAL CONTRACTOR/SUB-CONTRACTOR IS TO BE REPAIRED/RESTORED AT NO EXPENSE TO THE OWNER OR ENGINEER. HAND OPERATED FLUSH CONTROLS SHALL BE LOCATED ON THE OPEN SIDE OF THE WATER CLOSET EXCEPT IN AMBULATORY ACCESSIBLE COMPARTMENTS.

PRODUCTS

A. SANITARY SEWER PIPING, BURIED

- PVC PIPE: ASTM D-2665, D-1785, SCHEDULE 40 PVC DWV.
 - FITTINGS: PVC DWV
 - JOINTS: ASTM D2855, SOLVENT WELD WITH ASTM D2564 SOLVENT CEMENT.

- CAST IRON PIPE: ASTM A74, SERVICE WEIGHT. ALL PIPE AND FITTINGS SHALL BE MARKED WITH THE COLLECTIVE TRADEMARK OF THE CAST IRON SOIL PIPE INSTITUTE AND LISTED BY NSF INTERNATIONAL.
 - FITTINGS: CAST IRON.
 - JOINTS: ASTM C-564, NEOPRENE GASKETING SYSTEM.

B. SANITARY SEWER PIPING, ABOVE GRADE

- PVC PIPE: ASTM D-2665, D-1785, SCHEDULE 40 PVC DWV. (PROHIBITED IN RETURN AIR PLENUMS)
 - FITTINGS: PVC
 - JOINTS: ASTM D2855, SOLVENT WELD WITH ASTM D2564 SOLVENT CEMENT.
- CAST IRON PIPE: CISPI 301, ASTM A 888, HUBLESS, SERVICE WEIGHT. ALL PIPE AND FITTINGS SHALL BE MARKED WITH THE COLLECTIVE TRADEMARK OF THE CAST IRON SOIL PIPE INSTITUTE AND LISTED BY NSF INTERNATIONAL.
 - FITTINGS: CAST IRON.
 - JOINTS: NEOPRENE GASKETS AND S/S CLAMP AND SHIELD ASSEMBLIES.

C. WATER PIPING ABOVE GRADE

- COPPER TUBING: ASTM B88 , TYPE L, HARD DRAWN.
 - FITTINGS: ASME B16.18, CAST BRONZE, OR ASME B16.22, WROUGHT COPPER AND BRONZE.
- JOINTS: ASTM B32, SOLDER, GRADE 95TA.

D. CONDENSATE EQUIPMENT DRAINS AND OVERFLOWS

- COPPER TUBING: SEAMLESS COPPER DRAINAGE TUBE (DWV), MINIMUM 1-1/4" SIZE.
 - FITTINGS: ANSI/ASME B16.23 CAST BRASS, OR ANSI/ASME B16.29 SOLDER WROUGHT COPPER WITH WYE AND BRASS CLEANOUT PLUG AT ALL CHANGES IN DIRECTION.
 - JOINTS: ASTM B32, SOLDER, GRADE 95TA.
 - TRAPS: FACTORY FABRICATED, DEEP SEAL TYPE.

E. GLASS FIBER PIPE INSULATION:

- INSULATION: ASTM C547; RIGID MOLDED, NON COMBUSTIBLE. WITH ALL SERVICE JACKET. "K" VALUE = .024 @ 75° F.

- VAPOR BARRIER JACKET, ASTM C921, WHITE KRAFT PAPER REINFORCED WITH GLASS FIBER YARN AND BONDED TO ALUMINIZED FILM.

INSULATION SCHEDULE:	PIPE SIZE	THICKNESS
DOMESTIC HOT WATER SUPPLY	ALL	1"
DOMESTIC COLD WATER SUPPLY	ALL	1/2"
CONDENSATE DRAINS	ALL	1/2"

F. PIPE HANGERS AND SUPPORTS

- PLUMBING PIPING - DWV & WATER PIPING.

- CONFORM TO ASME B31.9.
- HANGERS FOR PIPE SIZES 1/2" TO 1-1/2": MALLEABLE IRON, ADJUSTABLE SWIVEL, CLEVIS.

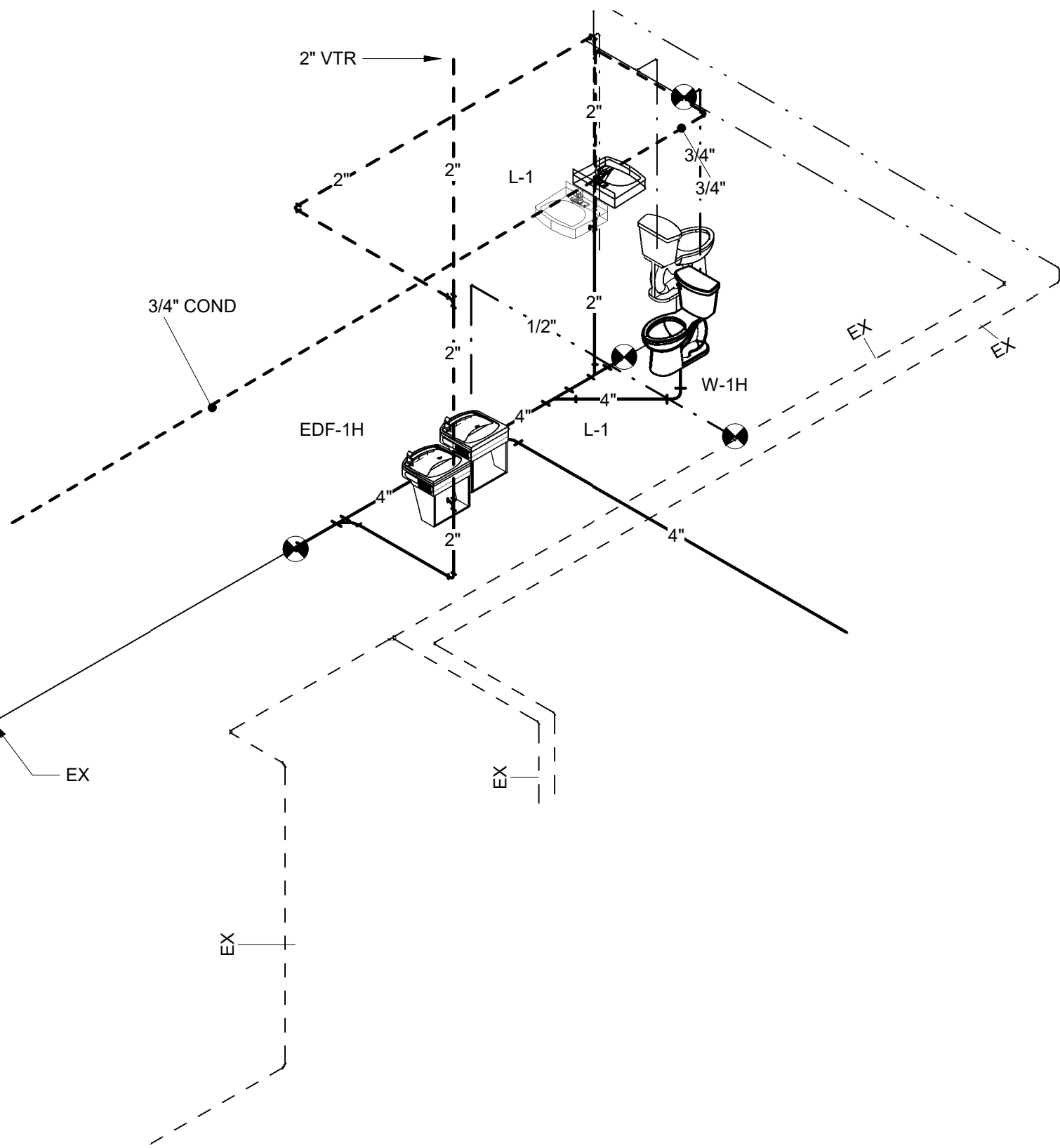
- PROVIDE SHEET METAL SHIELDS AT HANGER LOCATIONS.

3 SCHEDULES

PIPE SIZE	MAX. SUPPORT BRACING) (FEET)	HANGER ROD DIAMETER
1/2" TO 1-1/4"	6.5'	3/8"
1-1/2" TO 2"	10'	3/8"

NOTES:

- NEW PIPE TO TIE INTO EXISITING PIPE AS NECESSARY



LEGENDS

SYMBOL	DESCRIPTION
	FIRE STANDPIPE
	WET SPRINKLER PIPING
	SPRINKLER DRAIN PIPING
	PIPE BREAK
	FIRE HOSE VALVE IN CABINET
	FIRE HOSE VALVE
	SPRINKLER FLOOR CONTROL VALVE ASSEMBLY
	SPRINKLER FLOOR CONTROL VALVE ASSEMBLY NUMBER
	SHUTOFF VALVE
	GLOBE VALVE
	CHECK VALVE
	CHECK VALVE WITH AUTOMATIC BALL DRIP
	RELIEF VALVE
	ALARM CHECK VALVE
	FLOW METER
	O.S.&Y. GATE VALVE
	O.S.&Y. GATE VALVE WITH TAMPER SWITCH
	TAMPER SWITCH
	WATER FLOW SWITCH
	PRESSURE GAUGE
	ENCLOSED WASTE CONE WITH SIGHT GLASS
	ROOF MANIFOLD (3 WAY)
	FLUSH TYPE FIRE DEPARTMENT CONNECTION
	FLUSH TYPE PUMP TEST HEADER
	WATER PROOF SLEEVE
	ARROW INDICATES DIRECTION OF FLOW
	DOUBLE CHECK DETECTOR ASSEMBLY (DCA)
	UPRIGHT POST INDICATOR
	RISER DESIGNATION SPRINKLER SERVICE
	STANDPIPE SERVICE RISER NUMBER

FIXTURES TO REMAIN

FIXTURES TO BE DEMOLISHED. PRESERVE EXISTING CW, HW, AND BELOW SLAB SANITARY CONNECTIONS. SANITARY SHALL BE RELOCATED AS REQUIRED FOR NEW FIXTURE LOCATIONS.

FIXTURES TO REMAIN

NOTES:

- CONTRACTOR TO VERIFY EXISTING PIPE AND CONDITIONS IN THE FIELD.
- REMOVE AND DISCARD PLUMBING FIXTURES AND ASSOCIATED INTERCONNECTING PIPING THAT IS SHOWN AS DEMOLISHED.
- CAP PIPING BELOW FLOORS. CAP PIPING IN WET WALLS FLUSH WITH PARTITION.
- LEAVE NO DEAD-END PIPING.

THESE DRAWINGS ARE DIAGRAMMATIC COORDINATION OF ALL TRADES AND COMPLIANCE WITH DIMENSIONS ON ARCHITECTURAL AND STRUCTURAL DRAWINGS ARE REQUIRED

NOTES:

- PLUMBING FIXTURES TAGGED IN THIS VIEW TO BE NEW FIXTURES. FIXTURES NOT TAGGED IN THIS VIEW ARE EXISTING.
- CONTRACTOR TO VERIFY EXISTING PIPE AND CONDITIONS IN THE FIELD.

B4

1/8" = 1'-0"

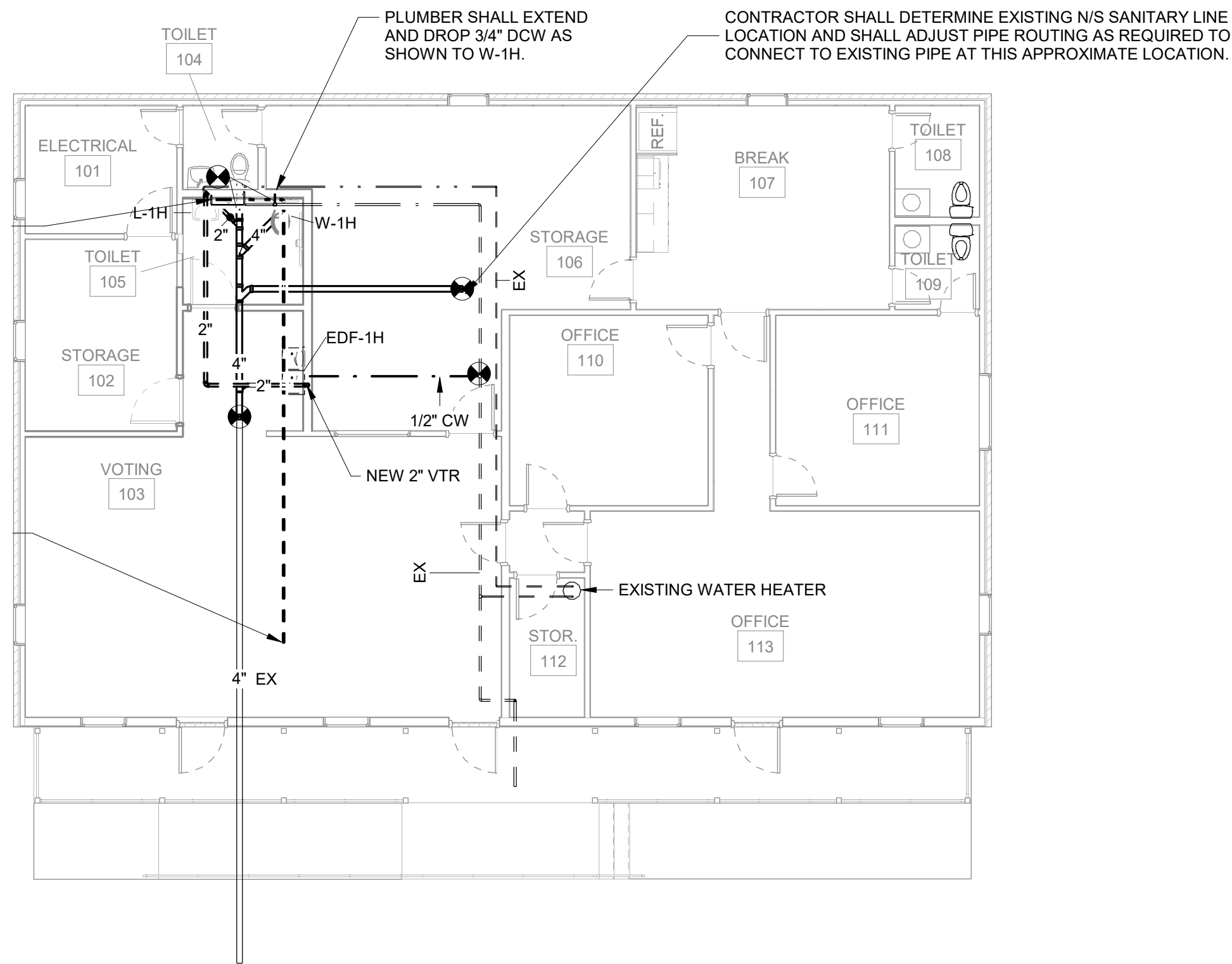
DEMOLITION PLUMBING FLOOR PLAN

NORTH



3/4" COND LINE TO BE RUN TO HOUSE SIDE OF P-TRAP

COND TO BE PUMPED TO 3/4" COND LINE TO RUN ABOVE CEILING



D4

1/8" = 1'-0"

PLUMBING FLOOR PLAN

NORTH



THESE DRAWINGS ARE DIAGRAMMATIC COORDINATION OF ALL TRADES AND COMPLIANCE WITH DIMENSIONS ON ARCHITECTURAL AND STRUCTURAL DRAWINGS ARE REQUIRED

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HAYWOOD COUNTY

**ELECTION
COMMISSION
BUILDING
RENOVATION**

BROWNSVILLE, TN

**CONSTRUCTION
DOCUMENTS**

REVISIONS

PROJECT NO.	DATE
24282	AUG 23, 2023
DRAWN	CHECKED
JCS	NDS

PLUMBING FLOOR PLAN

P1.1

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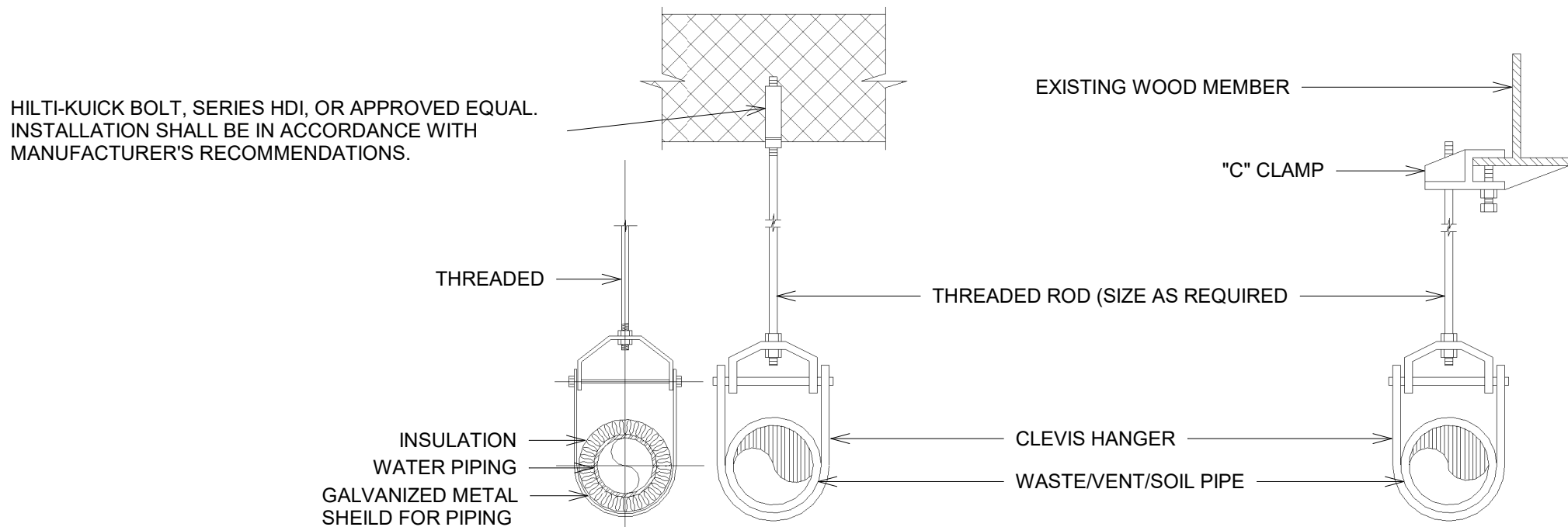
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PLUMBING FIXTURE SCHEDULE									
TYPE MARK	DESCRIPTION	SOIL	WASTE	VENT	CW	HW	MXV	REMARKS	
EDF-1H	ELECTRIC DRINKING FOUNTAIN HI/LOW HANDICAPPED		2"	2"	1/2"			"ELKAY" # EZSTL8C, WATER COOLER, ZURN NO. Z8702-9-PC TRAP, Z8802LRLK SUPPLY AND STOP, ZURN Z-1225 CARRIER. MOUNT AT HANDICAPPED HEIGHT.	
L-1H	LAVATORY, WALL HUNG, HANDICAPPED		2"	2"	1/2"	1/2"		"ZURN" # 5344, BOWL, 4" CENTERS, Z8746-PC OFF-SET GRID STRAINER, Z8700-8-PC TRAP, Z8802LRLK SUPPLIES W/LOOSE KEY STOPS. ZURN Z-1231 CARRIER, ZURN Z7440-XL LEVER CONTROL FAUCET. "ZURN" # Z8946-3-NT, COMBINATION KIT, SATIN WHITE, PVC RESIN PROTECTORS FOR TRAP AND SUPPLIES.	
W-1H	WATER CLOSET, FLOOR MTD., FLUSH TANK HANDICAPPED	4"		2"	1/2"			"ZURN" # Z5550, 1.6 GPF, TWO-PIECE, SIPHON JET TOILET. "ZURN" # Z5955SS-EL, ELONGATED WHITE TOILET SEAT. "ZURN" # Z8802CRLK-PC, SUPPLY AND LOOSE KEY STOP.	

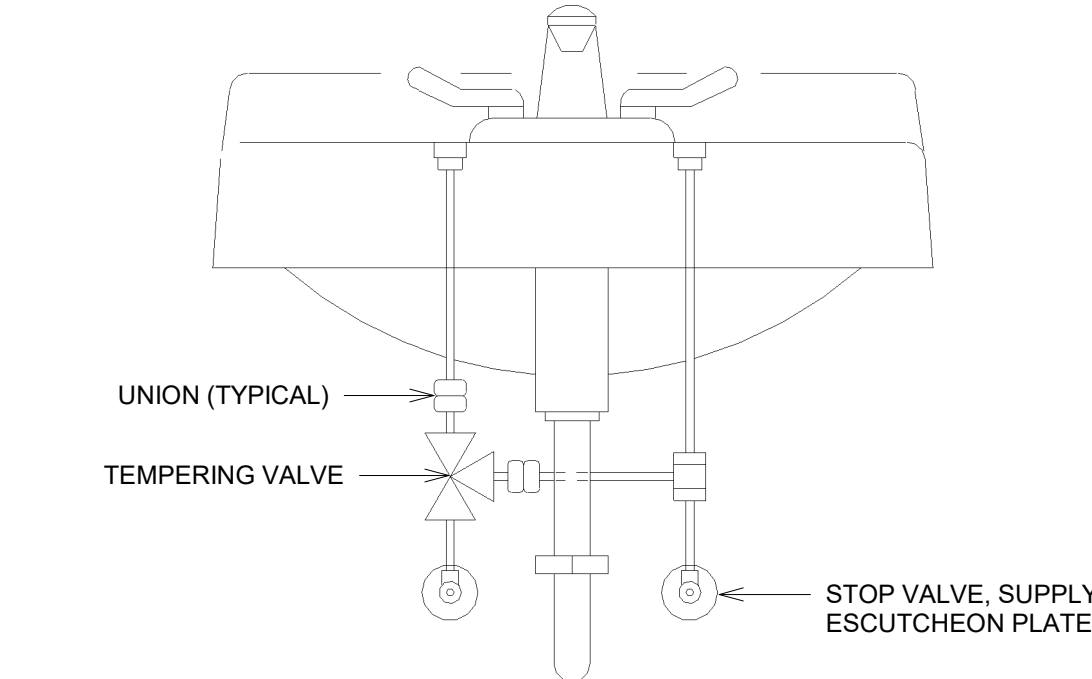
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PLUMBING FIXTURE SCHEDULE

N.T.S.



NOTE:
1. CLEVIS HANGERS REQUIRED ON PIPING LARGER THAN 1"



B3

TYPICAL POINT OF USE TEMPERING VALVE

N.T.S.

B1

TYPICAL HANGER DETAIL

N.T.S.

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PLUMBING FIXTURE
SCHEDULE AND DETAILS

P2.1





LED INTERIOR LIGHTING

LETTER ADJACENT TO LUMINAIRE DENOTES TYPE. SEE LUMINAIRE SCHEDULE
EM DENOTES LUMINAIRE WITH INTEGRAL EMERGENCY BATTERY BACKUP




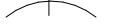



SYMBOL	DESCRIPTION
	TROFFER, RECESSED, 2' X 4'
	TROFFER, RECESSED, 2' X 4', EM
	TROFFER, RECESSED, 2' X 2'
	TROFFER, RECESSED, 2' X 2', EM
	LINEAR STRIP, SURFACE
	LINEAR STRIP, SURFACE, EM
	CEILING/SURFACE MOUNT LUMINAIRE
	CEILING/SURFACE MOUNT LUMINAIRE, EM
	RECESSED DOWNLIGHT
	RECESSED DOWNLIGHT, EM
	RECESSED LINEAR
	RECESSED LINEAR - EM
	SUSPENDED OR SURFACE MOUNT LINEAR
	WALL MOUNTED LINEAR
	WALL MOUNTED LINEAR - EM
	WALL SCONCE
	WALL SCONCE - EM
	EMERGENCY LIGHTING UNIT
	EXIT LIGHT - CEILING MOUNTED FACE AND DIRECTIONAL ARROWS AS INDICATED
	EXIT LIGHT - WALL MOUNTED FACE AND DIRECTIONAL ARROWS AS INDICATED
	EXIT LIGHT AND EMERGENCY LIGHTING UNIT, COMBINATION

D1	ELECTRICAL LEGEND
N.T.S.	

POWER DISTRIBUTION

SYMBOL	DESCRIPTION
	PANELBOARD, 240/120V 1PH 3W
	SAFETY SWITCH, NON-FUSED, 60/3 OR SIZE NOTED
	SAFETY SWITCH, FUSED, 60/3 OR SIZE NOTED
	DIRECT CONNECTION TO EQUIPMENT

CONDUCTORS, CABLES, BOXES, AND GROUNDING

SYMBOL	DESCRIPTION
	CONDUCTORS IN CONDUIT CONCEALED IN OR ABOVE CEILING OR IN WALL
	CONDUCTORS IN CONDUIT CONCEALED BELOW FLOOR, IN SLAB OR BELOW GRADE
	EQUIPMENT GROUNDING CONDUCTOR
	CONDUCTORS IN CONDUIT EXPOSED ON CEILING OR WALL
	JUNCTION BOX, ABOVE CEILING, UON
	GROUND BAR
	GROUND BAR - INTERSYSTEM BONDING TERMINATION

WIRING DEVICES

SYMBOL		DESCRIPTION
TR	WR	SUBSCRIPTS: TR - TAMPER RESISTANT, U - UNIVERSAL SERIAL BUS (USB) MOBILE DEVICE POWER (2-PORT), WR - WEATHER-RESISTANT
		RECEPTACLE, DUPLEX, NEMA 5-20R
		RECEPTACLE, DUPLEX, GFCI, NEMA 5-20R
		RECEPTACLE, DUPLEX, NEMA 5-20R, COUNTERTOP HEIGHT
		RECEPTACLE, DUPLEX, GFCI, NEMA 5-20R, COUNTERTOP HEIGHT
		RECEPTACLE, TWO DUPLEX IN ONE OUTLET (QUADPLEX)
		RECEPTACLE, QUADPLEX, GFCI, NEMA 5-20R, COUNTERTOP HEIGHT
		RECEPTACLE, SINGLE, NEMA 5-20R
		RECEPTACLE, CEILING, DUPLEX, NEMA 5-20R
		FLOOR BOX, CAST IN PLACE, SHARED WITH COMMUNICATIONS WIRING DEVICE SERVICE FITTINGS; (2) DUPLEX, NEMA 5-20R USB TYPE
		TOGGLE SWITCH, MOTOR RATED, WITH POLES FOR LOAD SERVED.













LIGHTING CONTROL DEVICES

DEVICES ARE LINE VOLTAGE, WALL MOUNTED, UON












SYMBOL	DESCRIPTION
ζ	SWITCH TOGGLE, SPST, 20A, 120V
ζ_3	SWITCH, THREE WAY
ζ_{OS}	SWITCH, VACANCY SENSING
ζ_D	SWITCH, DIMMING, 0-10V
ζ_{OSD}	SWITCH, VACANCY SENSING, 0-10V DIMMING
ζ_{OS2}	SWITCH, VACANCY SENSING, 2 POLE
ζ_K	SWITCH, KEY OPERATED, MOMENTARY TURN FOR ON, SPRING LOAD OFF, UON

NETWORK LIGHTING CONTROLS

DEVICES ARE LOW VOLTAGE NETWORK TYPE, UOM
LV - LOW VOLTAGE, D - DIMMING, # - BUTTONS,

	SWITCH, LV
	SWITCH, LOW VOLTAGE NETWORK, ON/OFF, DIMMING
	SWITCH, LOW VOLTAGE NETWORK, ON/OFF, DIMMING, 2 ZONE
	OCCUPANCY SENSOR, LOW VOLTAGE NETWORK, CEILING
	OCCUPANCY SENSOR, LOW VOLTAGE NETWORK, WALL
	DAYLIGHT SENSOR, CEILING
	POWER PACK, NON DIMMABLE
	POWER PACK, NON DIMMABLE, UL 924 EMERGENCY OVERRIDE
	POWER PACK, DIMMING, 0-10V
	POWER PACK, DIMMING, 0-10V, UL924 EMERGENCY OVERRIDE
	LIGHTING CONTROL PANEL, SINGLE PANEL OR COLLECTION OF NETWORK DEVICES AS NOTED
	LIGHTING CONTROLLER WITH TIME CLOCK AND PHOTOCCELL INPUT

COMMUNICATIONS AND SECURITY

SYMBOL	DESCRIPTION
	DATA OUTLET, 1-IN C WITH PULLSTRING TO ACCESSIBLE CEILING SPACE
	DATA OUTLET, COUNTER HEIGHT, 1-IN C WITH PULLSTRING TO ACCESSIBLE CEILING SPACE
	TELEVISION (TV) OUTLET, SINGLE GANG BOX AT 18-IN AFF, 1.25-IN C WITH PULLSTRING TO ACCESSIBLE CEILING SPACE.
	DATA OUTLET RECESSED IN CEILING.
	SPEAKER, FLUSH CEILING MOUNTED
	CARD READER, SINGLE GANG BOX 48-IN AFF, 1/2-IN C WITH PULLSTRING TO ACCESSIBLE CEILING SPACE.
	CAMERA, INTERIOR, CELING MOUNTED UNLESS OTHERWISE NOTED.
	CAMERA, EXTERIOR, WALL MOUNTED UNLESS OTHERWISE NOTED.
	FLOOR BOX, SINGLE FITTING, DATA OUTLET, 1-IN CONDUIT AND STRING TO ABOVE CEILING.
	FLOOR BOX, CAST IN PLACE, SHARED WITH POWER, WIRING DEVICE SERVICE FITTINGS: (2) 1-GANG OUTLETS, 1.25-IN CONDUIT AND STRING TO ABOVE CEILING
	FLOOR BOX, POKE THROUGH, SHARED WITH POWER, WIRING DEVICE SERVICE FITTINGS: (2) 1-GANG OUTLETS, 1.25-IN EMT AND STRING TO ABOVE CEILING

ABBREVIATIONS

A	AMPERES
AF	AMPERE FRAME
AFB	ARC FLASH BOUNDARY
AFC	AVAILABLE FAULT CURRENT
AFH	ABOVE FINISHED FLOOR
AFH	ABOVE FINISHED GRADE
AG	AMPERE-HOURS
AHJ	AUTHORITY HAVING JURISDICTION
AIC	AMPERES INTERRUPTING CAPACITY
AL	APPROXIMATELY
APXA	AVAILABLE SHORT CIRCUIT AMPERES
AT	AMPERE TRIP
ATS	AUTOMATIC TRANSFER SWITCH
AWG	AMERICAN WIRE GAUGE
BC	BRANCH CIRCUIT
BCB	BRANCH CIRCUIT BREAKER
BFC	BELOW FINISHED CEILING
BFG	BELOW FINISHED GRADE
BOD	BASIS OF DESIGN
C	CONDUIT OR COUNTERTOP HEIGHT
CAL	CALORIE
CD	CANDELA
CJ	COPPER
DIU	DIMENSION
EBJ	EQUIPMENT BONDING JUMPER
EBM	EMERGENCY BATTERY MODULE
ECB	ENCLOSED CIRCUIT BREAKER
EDF	ELECTRIC DRINKING FOUNTAIN
ECM	ELECTRICALLY COMMUTATED MOTOR
EFD	ENCLOSED FUSED DISCONNECT
EGB	EXTERNAL GROUND BUS BAR
EGL	ELECTRICAL GROUNDING CONDUCTOR
EMT	ELECTRICAL METALLIC TUBING
EX	EXISTING
F	FAHRENHEIT
FC	FOOTCANDLE
FBC	FEEDER CIRCUIT BREAKER
FMB	FLUXIBLE METAL CONDUIT
FT	FEET
G	GROUND
GA	GAUGE
GALV	GALVANIZED
GB	GROUND BUS OR BUSBAR
GEC	GROUNDING ELECTRODE CONDUCTOR
GET	GROUNDING ELECTRODE SYSTEM
GF	GROUND FAULT CIRCUIT INTERRUPTING
GFPE	GROUND FAULT PROTECTION

IT	INTERSYSTEM BONDING TERMINATION
IC	INSULATED CEILING RATING
IN	INCH OR INCHES
K	KILO
K	KELVIN
KA	KILOAMPERES
LCP	LIGHTING CONTROL PANEL
LFMC	LIQUIDTIGHT FLEXIBLE METAL CONDUIT
LM	LUMEN
LPA	LIGHTING POWER ALLOWANCE
LPD	LIGHTING POWER DENSITY
MA	MANUFACTURER
MBJ	MAIN BONDING JUMPER
MCA	MINIMUM CIRCUIT AMPACITY
MCB	MAIN CIRCUIT BREAKER
MCB	MOLDED CASE CIRCUIT BREAKER
MCB	MASTER GROUND BUS BAR
ML	MIN LUG ONLY
MOP	MAXIMUM OVERCURRENT PROTECTION
MTG	MOUNTING
NA	NOT APPLICABLE
NCC	NATIONAL ELECTRIC CODE
NC	NORMALLY CLOSED
NO	NORMALLY OPEN
NTS	NOT TO SCALE
NTS	NOT TO SCALE
OC	ON CENTER
O.C.	ON CENTER
PS	PHOTOCONTROL SWITCH
PNL	PANELBOARD
QTY	QUANTITY
R	RACEWAY
RMC	RIGID METAL CONDUIT
S	SWITCHED
SCCR	SHORT CIRCUIT AMPERE RATING
SWR	SURFACE MOUNTED RACEWAY
SPD	SURGE PROTECTION DEVICE
SQ	SQUARE
SS	STAINLESS STEEL
SWB	SWITCHBOARD
SWG	SWITCHGEAR
TR	TAMPER RESISTANT
TY	TYPICAL
UF	UNDERGROUND FEEDER
UN	UNLESS OTHERWISE NOTED
V	VOLTS
VA	VOLT-AMPS
W	WATT
WR	WEATHER - RESISTANT
X	EXTERIOR
'	FEET
"	INCH

D4	ABBREVIATIONS
N.T.S.	

ELECTRICAL GENERAL NOTES

- PROVIDE LABOR AND MATERIALS NECESSARY FOR A COMPLETE AND FULLY FUNCTIONAL ELECTRICAL SYSTEM. INCLUDE LABOR, INSTALLATION METHODS, EQUIPMENT, AND MATERIALS FOR WORK REQUIRED FOR THE INSTALLATION AS SHOWN ON DRAWINGS AND AS DESCRIBED IN THE SPECIFICATIONS. ADHERE TO MORE STRINGENT REQUIREMENTS THAN THOSE DESCRIBED HEREIN OR AS SET FORTH UNDER CODES, LAWS, AND ORDINANCES OF FEDERAL, STATE, AND LOCAL AUTHORITIES HAVING JURISDICTION. ERECT, INSTALL, TOOL, CONNECT, CLEAN, ADJUST, TEST, CONDITION, AND PLACE MATERIALS AND EQUIPMENT IN ACCORDANCE WITH THE MANUFACTURER'S DIRECTIONS AND RECOMMENDATIONS.
2. COMPLY WITH THE RULES AND REGULATIONS OF THE AUTHORITIES HAVING JURISDICTION INCLUDING:
 1. STATE OF TENNESSEE DEPARTMENT OF COMMERCE AND INSURANCE, DIVISION OF FIRE PROTECTION, THE STATE FIRE MARSHAL'S OFFICE//
 2. HAYWOOD COUNTY OFFICE OF CONSTRUCTION CODE ENFORCEMENT AND THE CITY OF BROWNSVILLE DIVISION OF FIRE SERVICES
 3. THE CITY OF BROWNSVILLE AND THE UNIFIED DEVELOPMENT CODE
 4. TENNESSEE BOARD OF HEALTH
 5. AMERICAN WITH DISABILITIES ACT
 6. GOVERNMENTAL FEES:
 1. SECURE PAY FOR PERMITS, GOVERNMENTAL FEES, TAXES AND LICENSES NECESSARY FOR THE PROPER EXECUTION AND COMPLETION OF ELECTRICAL WORK
 2. PREPARE AND SUBMIT TO GOVERNMENTAL AGENCIES, UTILITY COMPANIES, AND LOCAL CODE OFFICIALS, SHOP DRAWINGS AND/OR INSTALLATION DETAILS WHICH ARE REQUIRED BY THESE AGENCIES FOR THEIR APPROVAL.
3. NO PART OF THE DESIGN IS TO BE CHANGED WITHOUT THE PRIOR APPROVAL OF THE ENGINEER.
4. ENSURE MATERIALS AND EQUIPMENT ARE LISTED AND/OR LABELED BY U.L., ETL, CSA, OR ANOTHER NATIONALLY RECOGNIZED TESTING LABORATORY (NRTL). PROVIDE COMMERCIAL GRADE MATERIAL, EQUIPMENT, WIRING DEVICES, UNLESS SPECIFICALLY INDICATED AS EXISTING TO BE REUSED ON DRAWINGS.
5. NOTIFY THE ARCHITECT, ENGINEER, AND PROJECT MANAGER IN WRITING OF MATERIALS OR APPARATUS BELIEVED TO BE INADEQUATE, UNSUITABLE, IN VIOLATION OF LAWS, ORDINANCES, RULES, OR REGULATIONS OF THE AUTHORITIES HAVING JURISDICTION.
6. EXAMINE THE CONTRACT DOCUMENTS AND MAKE A SCHEDULED ARRANGEMENT WITH THE PROJECT MANAGER TO VISIT THE SITE TO BECOME FAMILIAR WITH THE BUILDING AND SITE CONDITIONS RELATING TO THE WORK. FAILURE TO DO SO WILL NOT RELIEVE OBLIGATIONS OF THE CONTRACT.
7. TEMPORARY POWER AND LIGHTING: PROVIDE FOR THE PERFORMANCE OF OTHER TRADES, FOR THE ENTIRE PERIOD OF CONSTRUCTION. REMOVE TEMPORARY WIRING AT THE COMPLETION OF CONSTRUCTION. INCLUDE COST FOR ESTABLISHING AND REMOVING TEMPORARY POWER. INCLUDE
8. SUBMITTALS: ARRANGE IN LOGICAL GROUPS TO REFLECT SPECIFICATION SECTIONS. INCLUDE MANUFACTURER'S NAMES, CATALOG NUMBERS, CUTS, DIAGRAMS, AND OTHER DESCRIPTIVE DATA TO IDENTIFY AND DESCRIBE THE EQUIPMENT. DELIVER COMPLETE SUBMITTAL PACKAGE AT ONE TIME. PARTIAL SUBMITTALS WILL NOT BE REVIEWED. INCOMPLETE OR INSUFFICIENT SUBMITTALS WILL BE RETURNED FOR CORRECTION.
9. AS-BUILTS: PROVIDE AS-BUILT DOCUMENTATION AND HARD COPY REPRODUCIBLE DRAWINGS AT THE COMPLETION OF THE PROJECT AND SUBMIT TO THE ARCHITECT AND THE ENGINEER. INDICATE EXACT CIRCUIT NUMBERS, LOCATIONS OF DISTRIBUTION EQUIPMENT, DEVICES, CEILING FIXTURES, AND RACEWAYS FOR LIGHTING, TELECOMMUNICATIONS AND POWER DISTRIBUTION SYSTEMS AS INSTALLED.
10. COORDINATION WITH OTHER SYSTEMS:
 1. VERIFY CLEARANCES FOR ELECTRICAL WORK BEFORE PROCEEDING WITH CONSTRUCTION. COORDINATE USAGE OF AVAILABLE SPACE WITH OTHER TRADES. IN THE EVENT OF CONFLICTS, NOTIFY THE ARCHITECT AND ENGINEER BEFORE PROCEEDING WITH THE WORK.
 2. REFER TO MECHANICAL AND PLUMBING ENGINEERING DRAWINGS FOR LOCATIONS OF MECHANICAL AND PLUMBING EQUIPMENT

D5	GENERAL NOTES
N.T.S.	



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HAYWOOD COUNTY

ELECTION COMMISSION BUILDING RENOVATION

BROWNSVILLE, TN

100% CONSTRUCTION DOCUMENTS

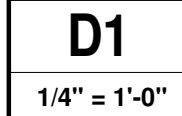
REVISIONS

PROJECT NO.	DATE
24262	AUGUST 14, 2024

DRAWN	CHECKED
CDR	SM

ELECTRICAL LEGEND AND NOTES

EO.0



NORTH 

1. PRESERVE EXISTING ELECTRICAL SYSTEMS IN THEIR ENTIRETY UNLESS OTHERWISE NOTED.
2. DEMOLISH DASHED DEVICES AND EQUIPMENT
3. COORDINATE ANY INTERRUPTION OF THE ELECTRIC OR COMMUNICATIONS SERVICES WITH OWNER'S REPRESENTATIVE (2) WEEKS PRIOR INTERRUPTION DATE.
4. DEMOLISH MEANS DISCONNECT, REMOVE FROM SITE AND DISPOSE OF IN A LEGAL MANNER.
5. DEMOLISH ELECTRICAL DEVICES, EQUIPMENT AND MATERIALS INDICATED BY HATCHING OR NOTE, UNLESS OTHERWISE INDICATED.
6. WHERE DEVICES ARE INDICATED TO BE DEMOLISHED, INCLUDE ELECTRICAL DEVICES, ACCESSIBLE RACEWAYS, WIRING, AND ACCESSIBLE BOXES.
7. PERFORM DEMOLITION OF EQUIPMENT AND MATERIALS THAT MAY BE REQUIRED OR NECESSARY FOR THE FULL AND COMPLETE EXECUTION OF THE WORK, WHETHER EXPLICITLY SHOWN AND/OR SPECIFIED OR NOT. EXACT EXTENT OF DEMOLITION WILL NOT BE FULLY INDICATED BY DRAWINGS. DETERMINE THE NATURE AND EXTENT OF DEMOLITION THAT WILL BE NECESSARY BY COMPARING THE CONTRACT DOCUMENTS WITH ARCHITECTURAL AND DEMOLITION DRAWINGS TO EXISTING CONDITIONS.
8. RETURN EXISTING ELECTRICAL EQUIPMENT WHICH WILL NOT BE REUSED TO THE OWNER OR REMOVE FROM THE PREMISES AS DETERMINED BY THE PROJECT MANAGER.
9. DEMOLISH OR RELOCATE ANY EXISTING ELECTRICAL MATERIAL AND EQUIPMENT WHICH INTERFERES WITH THE NEW ADDITION OR THE REMOVAL OF EXISTING WALLS AS DETERMINED BY THE PROJECT MANAGER.
10. WHERE DEMOLITION OCCURS AND CIRCUITS CONTINUE, PROVIDE CONDUCTORS TO CONNECT FROM POINT OF ORIGIN OR LAST USE TO POINT OF CONTINUATION WHERE CIRCUITS DO NOT CONTINUE. REMOVE CONDUCTORS TO POINT OF ORIGIN OR LAST POINT OF USE TO KEEP ANY ITEMS THAT REMAIN IN OPERATION AS UNUSED CONDUITS. CAP UNUSED CONDUITS.

N.T.S.

GENERAL NOTES - DEMOLITION

E1.0

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INTERIOR LUMINAIRE SCHEDULE									
TYPE	DESCRIPTION	MANUFACTURER	MODEL	COLOR	LUMENS	DIMMING	WATTS	MOUNTING	REMARKS
A2	SLIM PROFILE LINEAR	VODE LIGHTING	807 NX3 SL 31 60 SM 0 RP50 AE 1 0 Z LO 35 CE 0 AL 0	3500K CCT	LOW OUTPUT	0-10V 10%	120 VA	CEILING/SURFACE MOUNT	
C	4INCH RECESSED DOWNLIGHT	LITHONIA	LDN4 35/20 L04AR LSS MVOLT GZ10	3500K CCT	3000	0-10V 10%	30 VA	RECESSED	
E	EMERGENCY LIGHTING UNIT	LITHONIA	ELM4L	N/A	N/A	NONE	4 VA	WALL MOUNT 7FT AFF	
X	EXIT SIGN WITH TWIN HEAD	LITHONIA	ECC G	N/A	N/A	NONE	2 VA	CEILING MOUNT	

SUBMITTALS AND SUBSTITUTIONS:

- MANUFACTURER'S TRADE NAMES OR CATALOG NUMBERS USED IN THIS SCHEDULE ARE A BASIS OF DESIGN TO DENOTE TYPE, SIZE, QUALITY, AND DESIGN OF EQUIPMENT REQUIRED. SEE SPECIFICATIONS FOR LIST OF PRE-APPROVED ALTERNATE MANUFACTURERS AND AGENCIES.
- SUBMIT DATA SHEETS AND SHOP DRAWINGS FROM MANUFACTURER TO VERIFY SELECTIONS AND CONNECTIONS. SUBMITTAL DATA SHEETS SHALL BE ON LETTERHEAD OF AGENCY REPRESENTING MANUFACTURERS IN THE TERRITORY WHERE THE PROJECT IS LOCATED.
- WHERE A SUBSTITUTE LIGHTING PACKAGE IS SUBMITTED FOR ENGINEER REVIEW, PROVIDE ALL FIXTURE CUTSHEETS WITH OPTIONS CLEARLY INDICATED. PROVIDE AN ELECTRONIC COPY OF PHOTOMETRIC CALCULATIONS FOR EACH SPACE WITH VISUAL LIGHTING SOFTWARE.
- FURNISH SPECIFIED MATERIALS WHERE SUBSTITUTIONS ARE NOT APPROVED.

A1

N.T.S.

LUMINAIRE SCHEDULE

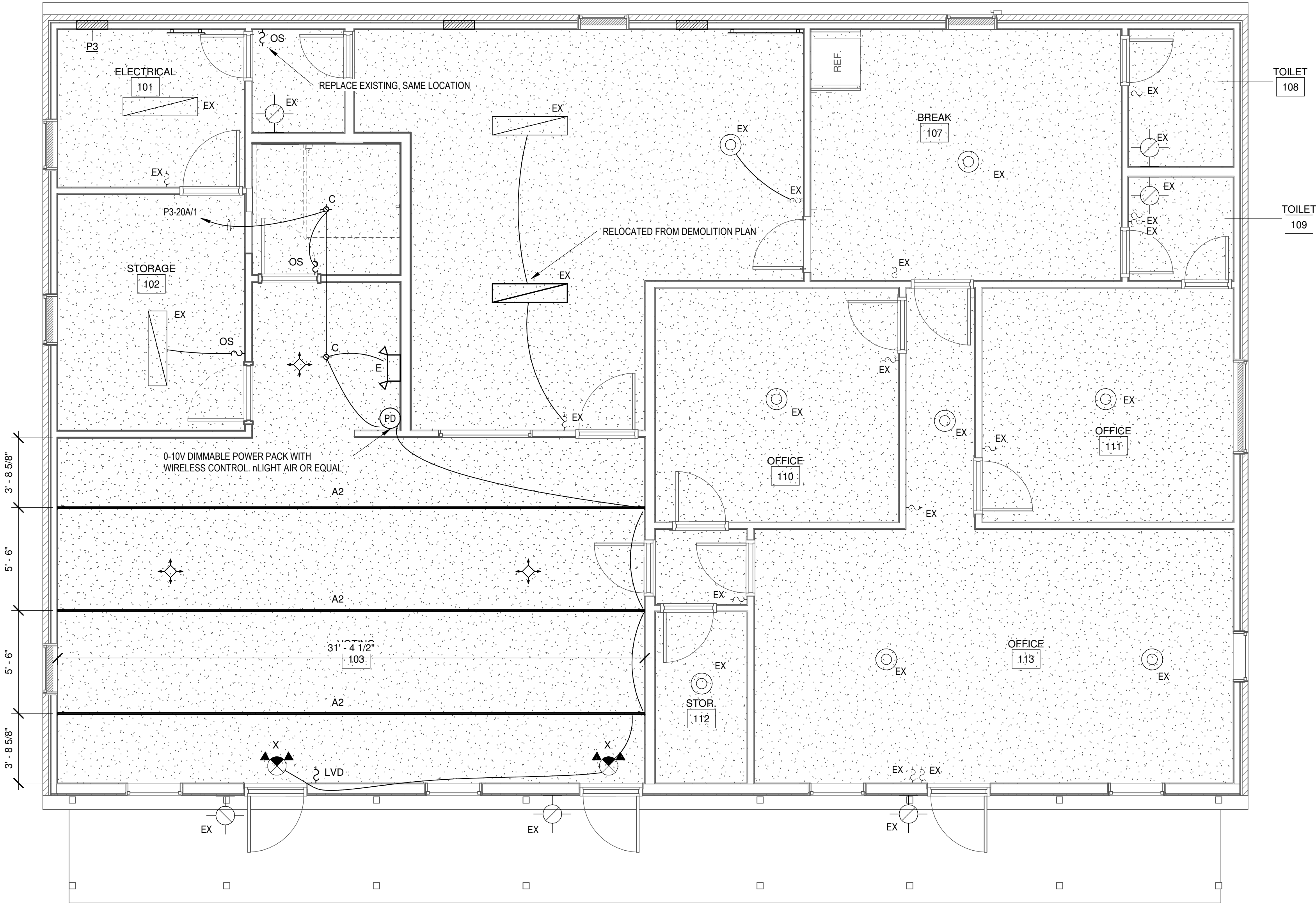
GENERAL NOTES

- SEE SHEET E0.0.
- PROVIDE LIGHTING AND LIGHTING CONTROLS.
 - POWER PACK TO CONTROL VOTING ROOM. OCCUPANCY SENSORS ON 20 MINUTE TIMEOUT. LOCAL ON/OFF/DIMMING SWITCH

A5

N.T.S.

GENERAL NOTES

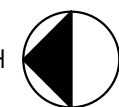


D1

1/4" = 1'-0"

LIGHTING PLAN

NORTH



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PLANNERS

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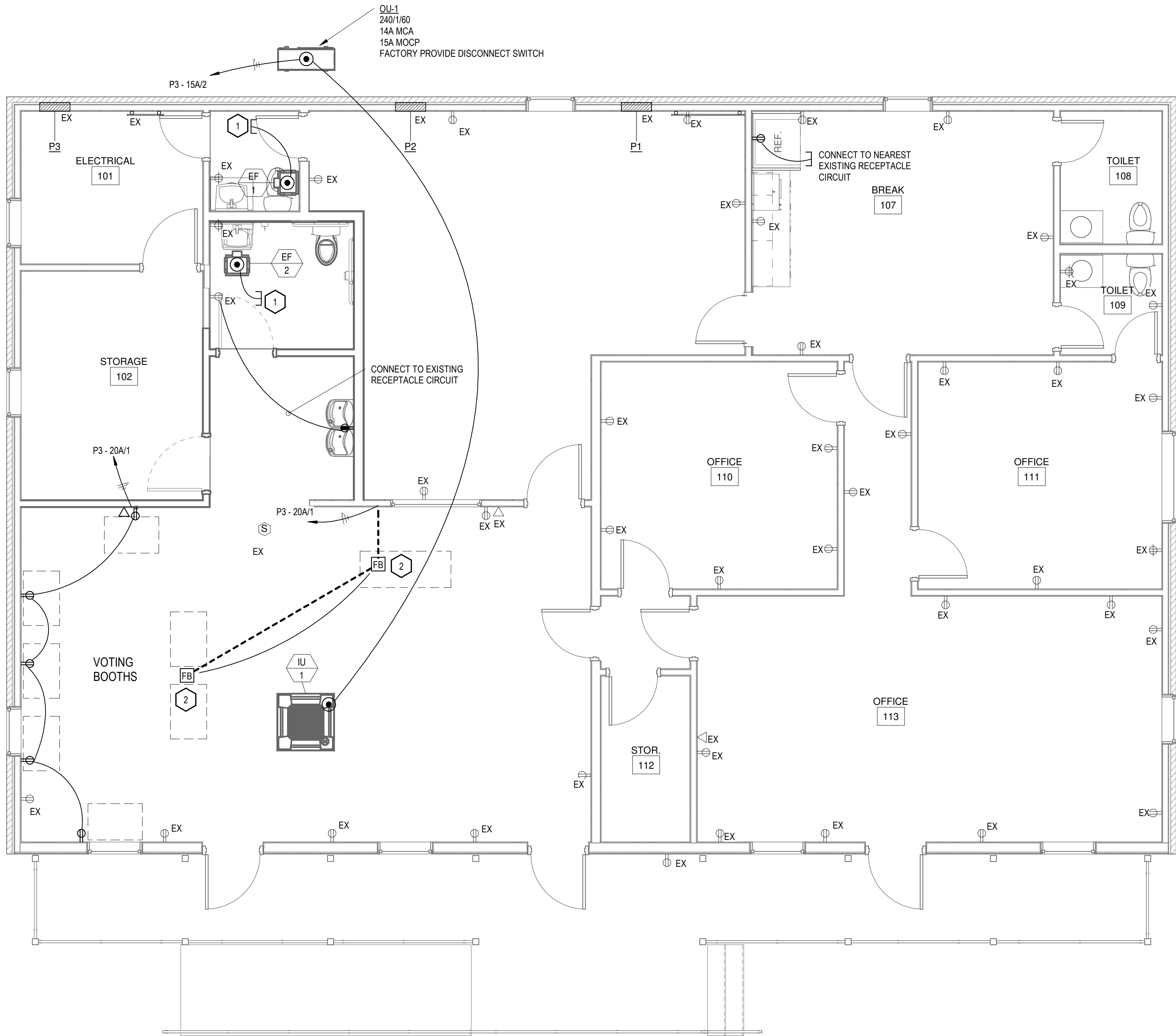
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CDR	SM

LIGHTING - FIRST FLOOR
PLAN

E1.1

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GENERAL NOTES

- SEE SHEET E0.0.
- PRESERVE EXISTING ELECTRICAL DISTRIBUTION.

KEYED NOTES

- CONNECT TO LIGHT SWITCH SERVING SPACE
- 4 GANG FLOORBOX WITH WHILE IN USE COVER, GREY FINISH
 - 2) DUPLEX RECEPTACLES
 - 2) GANGS RESERVED FOR DATA
 - 1" TO ELECTRICAL ROOM FOR DATA CABLING

A5

GENERAL AND KEYED NOTES

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POWER - FIRST FLOOR
PLAN

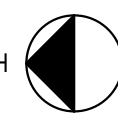
E2.1

D1

POWER PLAN

1/4" = 1'-0"

NORTH



<div><div>WIRING DEVICES</div><div><div><div><div><div>1. GENERAL</div><div>1. COORDINATION:</div><div>2. SUBMITTALS: PROVIDE MANUFACTURER'S CATALOG INFORMATION SHOWING DIMENSIONS, COLORS, AND CONFIGURATIONS OF PRODUCTS TO BE FURNISHED.</div><div>3. MAINTENANCE MATERIALS: PROVIDE (1) EXTRA WALL PLATE FOR EACH STYLE, SIZE, AND FINISH. PROVIDE (1) SCREWDRIVER FOR TAMPER-RESISTANT SCREWS.</div></div><div><div>2. PRODUCTS</div><div>1. WIRING DEVICE APPLICATIONS:</div><div>1. PROVIDE WIRING DEVICES SUITABLE FOR INTENDED USE AND WITH RATINGS ADEQUATE FOR LOAD SERVED</div><div>2. PROVIDE WEATHER RESISTANT GFCI RECEPTACLES WITH SPECIFIED WEATHERPROOF COVERS FOR RECEPTACLES INSTALLED OUTDOORS OR IN DAMP OR WET LOCATIONS</div><div>3. PROVIDE GFCI PROTECTION FOR RECEPTACLES INSTALLED WITHIN 6 FEET OF SINKS, IN KITCHENS, AND SERVING ELECTRIC DRINKING FOUNTAINS.</div></div><div><div>2. WIRING DEVICE FINISHES</div><div>1. WIRING DEVICES, UNLESS OTHERWISE INDICATED: WHITE WITH WHITE NYLON WALL PLATE.</div><div>2. WIRING DEVICES INSTALLED IN FINISHED SPACES: WHITE WITH WHITE NYLON WALL PLATE.</div><div>3. WIRING DEVICES INSTALLED IN UNFINISHED SPACES: GRAY WITH GALVANIZED STEEL WALL PLATE.</div><div>4. WIRING DEVICES INSTALLED IN WET OR DAMP LOCATIONS: WHITE WITH WEATHERPROOF COVER.</div></div><div><div>3. WIRING DEVICES, WALL PLATES, WALL SWITCHES</div><div>1. MANUFACTURERS</div><div>1. HUBBEL INCORPORATED</div><div>2. LEVITON MANUFACTURING COMPANY</div><div>3. PASS & SEYMOUR, LEGRAND NORTH AMERICA, INC.</div><div>4. APPROVED SUBSTITUTION</div></div><div><div>2. GENERAL REQUIREMENTS:</div><div>1. WALL SWITCH: AC ONLY, QUIET OPERATING, GENERAL-USE SNAP SWITCHES WITH SILVER ALLOY CONTACTS, COMPLYING WITH NEMA WD 1 AND NEMA WD 6, AND LISTED AS COMPLYING WITH UL 20 AND WHERE APPLICABLE, FS W-5-896, TYPES AS INDICATED ON THE DRAWINGS.</div><div>2. WALL PLATES: COMPLY WITH UL 514D, STANDARD SIZE, ONE PIECE COVER AS REQUIRED FOR QUANTITY AND TYPES OF CORRESPONDING WIRING DEVICES, METAL SLOTTED HEAD SCREWS FINISHED TO MATCH WALL PLATE FINISH.</div><div>3. RECEPTACLES: SELF-GROUNDING, COMPLYING WITH NEMA WD 1 AND NEMA WD 6, AND LISTED AS COMPLYING WITH UL 498, AND WHERE APPLICABLE, FS W-C-596, TYPES AS INDICATED ON THE DRAWINGS.</div><div>4. GFCI RECEPTACLES: SELF-TESTING, WITH FEED-THROUGH PROTECTION AND LIGHT TO INDICATE GROUND FAULT TRIPPED CONDITION AND LOSS OF PROTECTION, LISTED AS COMPLYING WITH UL 943, CLASS A.</div></div><div><div>3. WALL SWITCHES:</div><div>1. INDUSTRIAL SPECIFICATION GRADE, 20 A, 120/277 V WITH STANDARD TOGGLE TYPE SWITCH ACTUATOR AND MAINTAINED CONTACTS; SINGLE POLE SINGLE THROW, DOUBLE POLE SINGLE THROW, THREE WAY, OR FOUR WAY AS INDICATED ON THE DRAWINGS.</div></div><div><div>4. RECEPTACLES:</div><div>1. STANDARD CONVENIENCE RECEPTACLES: INDUSTRIAL SPECIFICATION GRADE, 20A, 125V, NEMA 5-20R; SINGLE OR DUPLEX AS INDICATED ON THE DRAWINGS.</div><div>2. WEATHER RESISTANT CONVENIENCE RECEPTACLES: INDUSTRIAL SPECIFICATION GRADE, 20A, 125V, NEMA 5-20R, LISTED AND LABELED AS WEATHER RESISTANT TYPE COMPLYING WITH UL 498 SUPPLEMENT SE SUITABLE FOR INSTALLATION IN DAMP OR WET LOCATIONS; SINGLE OR DUPLEX AS INDICATED ON THE DRAWINGS.</div><div>3. TAMPER RESISTANT AND WEATHER RESISTANT CONVENIENCE RECEPTACLES: INDUSTRIAL SPECIFICATION GRADE, 20A, 125V, NEMA 5-20R, LISTED AND LABELED AS TAMPER RESISTANT TYPE AND AS WEATHER RESISTANT TYPE COMPLYING WITH UL 498 SUPPLEMENT SE SUITABLE FOR INSTALLATION IN DAMP OR WET LOCATIONS; SINGLE OR DUPLEX AS INDICATED ON THE DRAWINGS.</div></div><div><div>4. SERVICE FITTINGS:</div><div>1. MANUFACTURERS:</div><div>1. THOMAS & BETTS CORPORATION</div><div>2. WIREMOLD, A BRAND OF LEGRAND NORTH AMERICA, IN HYPERLINK "http://www.legrand.us/"</div><div>3. APPROVED SUBSTITUTION</div><div>2. DESCRIPTION: SERVICE FITTINGS COMPATIBLE WITH FLOOR BOX PROVIDED WITH COMPONENTS, ADAPTERS, VOLTAGE DIVIDER, AND TRIMS REQUIRED FOR COMPLETE INSTALLATION.</div></div><div><div>3. EXECUTION:</div><div>1. VERIFY OUTLET BOXES ARE PROPERLY SIZED TO ACCOMMODATE DEVICES AND CONDUCTORS IN ACCORDANCE WITH NFPA 70.</div><div>2. VERIFY THAT WALL OPENINGS ARE NEATLY CUT AND WILL BE COMPLETELY COVERED BY WALL PLATES.</div><div>3. VERIFY THAT FINAL SURFACE FINISHES ARE COMPLETE, INCLUDING PAINTING.</div><div>4. VERIFY THAT BRANCH CIRCUIT WIRING INSTALLATION IS COMPLETED, TESTED, AND READY FOR CONNECTION TO WIRING DEVICES.</div><div>5. MOUNTING HEIGHTS: UNLESS OTHERWISE INDICATED, AS FOLLOWS:</div><div>1. WALL SWITCHES: 48 INCHES ABOVE FINISHED FLOOR.</div><div>2. RECEPTACLES: 18 INCHES ABOVE FINISHED FLOOR OR 6 INCHES ABOVE COUNTER.</div><div>6. ORIENT OUTLET BOXES FOR VERTICAL INSTALLATION OF WIRING DEVICES UNLESS OTHERWISE INDICATED.</div><div>7. WHERE MULTIPLE RECEPTACLES OR WALL SWITCHES ARE INSTALLED AT THE SAME LOCATION AND AT THE SAME MOUNTING HEIGHT, GANG DEVICES TOGETHER UNDER A COMMON WALL PLATE.</div><div>8. LOCATE RECEPTACLES FOR ELECTRIC DRINKING FOUNTAINS CONCEALED BEHIND DRINKING FOUNTAIN ACCORDING TO MANUFACTURER'S INSTRUCTIONS.</div><div>9. INSTALL WIRING DEVICES IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.</div><div>10. INSTALL PERMANENT BARRIER BETWEEN GANGED WIRING DEVICES WHEN VOLTAGE BETWEEN ADJACENT DEVICES EXCEEDS 300 V.</div><div>11. INSTALL BLANK WALL PLATES ON JUNCTION BOXES AND ON OUTLET BOXES WITH NO WIRING DEVICES INSTALLED OR DESIGNATED FOR FUTURE USE</div></div></div></div></div></div>	
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<div><div>CONDUCTORS AND CABLES</div><div><div><div><div>1. GENERAL</div><div>1. COORDINATION:</div><div>1. COMPARE SIZES OF RACEWAYS, BOXES, AND EQUIPMENT ENCLOSURES WITH CONDUCTOR TYPE AND SIZE INCLUDING ADJUSTMENTS FOR VOLTAGE DROP</div><div>2. PROVIDE EQUIPMENT TERMINATIONS SUITABLE FOR USE WITH THE CONDUCTORS TO BE INSTALLED.</div></div><div><div>2. SUBMITTALS:</div><div>1. PROVIDE MANUFACTURER'S STANDARD CATALOG PAGES AND DATA SHEETS FOR CONDUCTORS AND CABLES, INCLUDING DETAILED INFORMATION ON MATERIALS, CONSTRUCTION, RATINGS, LISTINGS, AND AVAILABLE SIZES, CONFIGURATIONS, AND STRANDING.</div></div></div><div><div>2. PRODUCTS</div><div>1. APPLICATIONS:</div><div>1. PROVIDE SINGLE CONDUCTOR BUILDING WIRE INSTALLED IN SUITABLE RACEWAY UNLESS OTHERWISE INDICATED, PERMITTED, OR REQUIRED.</div><div>2. SERVICE ENTRANCE CABLE, NON-METALLIC-SHEATED CABLE, ARMORED CABLE, METAL-CLAD CABLE, MANUFACTURED WIRING SYSTEMS, AND ALUMINUM CONDUCTORS ARE NOT PERMITTED.</div></div><div><div>2. GENERAL REQUIREMENTS</div><div>1. PROVIDE NEW CONDUCTORS AND CABLES MANUFACTURED NOT MORE THAN ONE YEAR PRIOR TO INSTALLATION.</div><div>2. MINIMUM CONDUCTOR SIZE: BRANCH CIRCUITS: 12 AWG. INCREASE BRANCH CIRCUIT CONDUCTORS IN SIZE WHERE NECESSARY TO COMPENSATE FOR VOLTAGE DROP, IN ACCORDANCE WITH NEC REQUIREMENTS.</div><div>3. CONDUCTOR COLOR CODE:</div><div>1. EXISTING BUILDING: COMPLY WITH EXISTING COLOR CODE WHEN EXISTING CODE COMPLIES WITH NFPA 70 AND IS APPROVED BY THE AUTHORITY HAVING JURISDICTION</div><div>2. NEW CONSTRUCTION: COMPLY WITH THE FOLLOWING COLOR CODE WHERE IT DOES NOT CONFLICT WITH NFPA 70 AND THE REQUIREMENTS OF THE AUTHORITY HAVING JURISDICTION</div><div>a. 240/120 V, 1 PHASE, 3 WIRE SYSTEM: PHASE A: BLACK, PHASE B: RED, NEUTRAL/GROUNDED: WHITE</div><div>b. EQUIPMENT GROUND: GREEN.</div></div><div><div>3. SINGLE CONDUCTOR BUILDING WIRE</div><div>1. COPPER BUILDING WIRE MANUFACTURERS:</div><div>1. CERRO WIRE LLC</div><div>2. ENCORE WIRE CORPORATION</div><div>3. SOUTHWIRE COMPANY</div><div>4. APPROVED EQUAL.</div><div>2. CONDUCTOR STRANDING:</div><div>1. FEEDERS AND BRANCH CIRCUITS: SOLID FOR SIZE 10 AWG AND SMALLER: SOLID AND STRANDED FOR SIZE 8 AWG AND LARGER.</div><div>2. CONTROL CIRCUITS: STRANDED</div><div>3. COPPER WIRE, 600V INSULATION VOLTAGE RATING, TYPE THHN/THWN OR THHN/THWN-2</div></div><div><div>4. WIRING CONNECTORS FOR SPLICES AND TAPS:</div><div>1. SIZE 8AWG AND SMALLER: TWIST-ON INSULATED SPRING CONNECTORS, MECHANICAL CONNECTORS, OR COMPRESSION CONNECTORS.</div><div>2. SIZE 8AWG AND LARGER: PRE-INSULATED MECHANICAL TERMINAL BLOCKS.</div></div><div><div>5. WIRING CONNECTORS FOR TERMINATIONS:</div><div>1. SIZE 10AWG AND SMALLER: CRIMPED TERMINALS FOR CONNECTIONS TO TERMINAL SCREWS.</div><div>2. SIZE 8AWG AND LARGER: MECHANICAL OR COMPRESSION CONNECTORS</div></div><div><div>3. EXECUTION</div><div>1. CIRCUIT ROUTING IS DIAGRAMMATIC UNLESS NOTED OTHERWISE.</div><div>2. MAINTAIN SEPERATION OF CLASS 1, 2, 3, AND EMERGENCY CIRCUITS IN ACCORDANCE WITH NFPA 70.</div><div>3. PROVIDE DEDICATED NEUTRAL/GROUNDED CONDUCTOR FOR EACH BRANCH CIRCUIT.</div><div>4. PERFORM WORK IN ACCORDANCE WITH NECA 1 (GENERAL WORKMANSHIP)</div><div>5. INSTALL CONDUCTORS WITH A MINIMUM OF 12 INCHES OF SLACK AT EACH OUTLET</div><div>6. MAKE SPLICES AND TAPS ONLY IN ACCESSIBLE BOXES</div></div></div></div>	
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<div><div>C2</div><div>N.T.S.</div><div>CONDUCTORS AND CABLES</div></div>	
<div><div>BOXES</div><div><div><div><div>1. GENERAL:</div><div>1. SUBMITTAL: PROVIDE MANUFACTURER'S STANDARD CATALOG PAGES AND DATA SHEETS FOR CABINETS AND ENCLOSURES, BOXES FOR HAZARDOUS (CLASSIFIED) LOCATIONS, FLOOR BOXES, AND UNDERGROUND BOXES/ENCLOSURES PRODUCTS:</div></div><div><div>2. PRODUCTS</div><div>1. BOXES</div><div>1. MINIMUM BOX SIZE FOR WIRING DEVICES: SINGLE GANG, 2.5" DEPTH</div><div>2. DRY LOCATIONS: USE SHEET-STEEL BOXES UNLESS OTHERWISE REQUIRED.</div><div>3. EXTERIOR, DAMP, OR WET LOCATION SPACES: USE CAST IRON OR CAST ALUMINUM BOXES FURNISHED WITH COMPATIBLE WEATHERPROOF GASKETED COVERS.</div><div>4. USE CAST IRON OR CAST ALUMINUM BOXES WHERE EXPOSED GALVANIZED STEEL RIGID METAL CONDUIT OR EXPOSED IMC IS USED.</div><div>5. ACCEPTABLE OUTLET AND DEVICE BOX MANUFACTURERS:</div><div>1. COOPER GROUSE-HINDS</div><div>2. HUBBELL INCORPORATED, BELL OR RACO PRODUCTS</div><div>3. O-Z/GEDNET</div><div>4. THOAS & BETTS CORPORATION</div><div>5. APPROVED EQUAL</div></div></div><div><div>3. EXECUTION:</div><div>1. PROVIDE FITTINGS LISTED FOR THE RACEWAY OR BOX FURNISHED.</div><div>2. LOCATE BOXES TO BE ACCESSIBLE AS DEFINED BY THE NEC.</div><div>3. PROVIDE GROUNDING TERMINALS WITHIN BOXES WHERE EQUIPMENT GROUNDING CONDUCTORS TERMINATE.</div><div>4. MAINTAIN 24-INCH HORIZONTAL SEPARATION BETWEEN BOXES IN 1 AND 2-HOUR FIRE RATED WALLS OR WRAP BOX WITH FIRE-RESISTIVE PUTTY TO MAINTAIN WALL RATING.</div><div>5. PROVIDE INDEPENDENT SUPPORT FROM BUILDING STRUCTURE EXCEPT FOR CAST METAL BOXES SUPPORTED BY THREADED CONDUIT CONNECTIONS IN ACCORDANCE WITH NFPA 70. DO NOT PROVIDE SUPPORT FROM PIPING, DUCTWORK, OR OTHER SYSTEMS. DO NOT PROVIDE SUPPORT FROM SUSPENDED CEILING GRID SUPPORT SYSTEM.</div></div></div></div>	
<div><div>D2</div><div>N.T.S.</div><div>BOXES</div></div>	

<div><div>GROUNDING AND BONDING</div><div><div><div><div>1. GENERAL</div><div>1. SUBMITTALS: NOT REQUIRED.</div></div><div><div>2. PRODUCTS</div><div>1. UNLESS SPECIFICALLY INDICATED TO BE EXCLUDED, PROVIDE ALL REQUIRED COMPONENTS, CONDUCTORS, CONNECTORS, CONDUIT, BOXES, FITTINGS, SUPPORTS, ACCESSORIES, ETC. AS NECESSARY FOR A COMPLETE GROUNDING AND BONDING SYSTEM.</div><div>2. WHERE CONDUCTOR OR SIZE IS NOT INDICATED, SIZE TO COMPLY WITH NFPA 70 BUT NOT LESS THAN APPLICABLE MINIMUM SIZE REQUIREMENTS SPECIFIED.</div><div>3. GROUNDING SYSTEM RESISTANCE OF GROUNDING ELECTRODE SYSTEM: NOT GREATER THAN 25 OHMS TO GROUND, WHEN TESTED ACCORDING TO IEEE 81 USING "FALL-OF-POTENTIAL" METHOD. BETWEEN GROUNDING ELECTRODE SYSTEM AND MAJOR ELECTRICAL EQUIPMENT FRAMES, SYSTEM NEUTRAL, AND DERIVED NEUTRAL POINTS: NOT GREATER THAN 0.5 OHMS, WHEN TESTED USING "POINT-TO-POINT" METHODS.</div><div>4. GROUNDING ELECTRODE SYSTEM</div><div>1. METAL UNDERGROUND WATER PIPE(S): PROVIDE CONNECTION TO UNDERGROUND METAL DOMESTIC AND FIRE PROTECTION (WHERE PRESENT) WATER SERVICE PIPE(S) THAT ARE IN DIRECT CONTACT WITH EARTH FOR AT LEAST 10 FEET AT AN ACCESSIBLE LOCATION NOT MORE THAN 5 FEET FROM THE POINT OF ENTRANCE TO THE BUILDING. PROVIDE BONDING JUMPER(S) AROUND INSULATING JOINTS/PIPES AS REQUIRED TO MAKE PIPE ELECTRICALLY CONTINUOUS. PROVIDE BONDING JUMPER AROUND WATER METER AND REDUCED PRESSURE BACKFLOW PREVENTER OF SUFFICIENT LENGTH TO PERMIT REMOVAL OF DEVICES WITHOUT DISCONNECTING JUMPER.</div><div>2. PROVIDE ADDITIONAL GROUND ELECTRODE(S) AND ENHANCEMENT MATERIAL AS REQUIRED TO ACHIEVE SPECIFIED GROUNDING ELECTRODE SYSTEM RESISTANCE.</div><div>3. LOCATE GROUND BAR ADJACENT TO SERVICE DISCONNECT UNLESS NOTED OTHERWISE.</div><div>4. SERVICE-SUPPLIED SYSTEM GROUNDING: FOR EACH SERVICE DISCONNECT, PROVIDE GROUNDING ELECTRODE CONDUCTOR TO CONNECT NEUTRAL (GROUNDED) SERVICE CONDUCTOR TO GROUNDING ELECTRODE SYSTEM AT NEUTRAL (GROUNDED) BUS IN SERVICE DISCONNECT ENCLOSURE. PROVIDE MAIN BONDING JUMPER TO CONNECT NEUTRAL (GROUNDED) BUS TO EQUIPMENT GROUND BUS WHERE NOT FACTORY-INSTALLED.</div><div>5. SEPARATELY DERIVED SYSTEM GROUNDING: PROVIDE SYSTEM BONDING JUMPER TO CONNECT SYSTEM GROUNDED CONDUCTOR TO EQUIPMENT GROUND BUS AND TO ADJACENT METAL BUILDING FRAME OR METAL WATER PIPE NOT ALREADY USED AS A GROUNDING ELECTRODE FOR THE DERIVED SYSTEM. PROVIDE GROUNDING ELECTRODE CONDUCTOR TO CONNECT DERIVED SYSTEM GROUNDED CONDUCTOR TO NEAREST EFFECTIVELY GROUNDED METAL BUILDING FRAME OR COMMON GROUNDED ELECTRODE CONDUCTOR.</div></div><div><div>6. BONDING AND EQUIPMENT GROUNDING:</div><div>1. PROVIDE BONDING FOR EQUIPMENT GROUNDING CONDUCTORS, EQUIPMENT GROUND BUSES, METALLIC EQUIPMENT ENCLOSURES, METALLIC RACEWAYS AND BOXES, DEVICE GROUNDING TERMINALS, AND OTHER NORMALLY NON-CURRENT-CARRYING CONDUCTIVE MATERIALS ENCLOSING ELECTRICAL CONDUCTORS/EQUIPMENT OR LIKELY TO BECOME ENERGIZED AS INDICATED AND IN ACCORDANCE WITH NFPA 70.</div><div>2. DO NOT USE RACEWAYS AS SOLE EQUIPMENT GROUNDING CONDUCTOR.</div><div>7. COMMUNICATIONS SYSTEMS GROUNDING AND BONDING:</div><div>1. PROVIDE INTERSYSTEM BONDING TERMINATION AT SERVICE EQUIPMENT AND AT DISCONNECTING MEANS.</div><div>2. PROVIDE BONDING JUMPER IN RACEWAY FROM INTERSYSTEM BONDING TERMINATION OR BUILDING GROUNDING ELECTRODE SYSTEM TO EACH COMMUNICATIONS ROOM OR BACKBOARD AND PROVIDE GROUND BAR FOR TERMINATION.</div></div><div><div>5. GROUNDING AND BONDING COMPONENTS:</div><div>1. UNDERGROUND CONDUCTORS: COPPER, BARE OR BARE TINNED. EXOTHERMIC WELD CONNECTIONS.</div><div>2. INTERIOR: COPPER, INSULATED. CONNECTORS: USE EXOTHERMIC WELDED CONNECTIONS WHERE ACCESSIBLE. ACCESSIBLE LOCATIONS: EXOTHERMIC, COMPRESSED, OR MECHANICAL CONNECTORS</div><div>3. GROUND BAR: COPPER RECTANGULAR GROUND BARS WITH MOUNTING BRACKETS AND INSULATORS. 14 BY 2 BY 12 INCHES, 18 INCHES ABOVE FINISHED FLOOR, UNLESS OTHERWISE NOTED (UON).</div><div>4. GROUND ROD ELECTRODES: COPPER-BONDED STEEL 3/4INCH DIAMETER BY 10FEET LENGTH, UON.</div></div><div><div>3. EXECUTION</div><div>1. GROUND ROD ELECTRODES: INSTALL VERTICALLY, WHERE ENCOUNTERED ROCK PROHIBITS VERTICAL INSTALLATION, INSTALL AT 45 DEGREE ANGLE OR BURY HORIZONTALLY IN TRENCH AT LEAST 30 INCHES DEEP IN ACCORDANCE WITH NFPA 70.</div><div>2. PROVIDE A CONTINUOUS (GREEN) EQUIPMENT GROUNDING CONDUCTOR WITH FEEDERS AND BRANCH CIRCUITS.</div><div>3. PROVIDE SYSTEM AND ENCLOSURE GROUNDING AT THE BUILDING SERVICE ENTRANCE PANELBOARD, SWITCHBOARD OR DISCONNECTING MEANS. INCLUDE EQUIPMENT BOND CONNECTION TO THE BUILDING STEEL BY EXOTHERMIC WELD, OR EQUAL. SIZE PER ARTICLE 250-94 OF THE NEC WHERE NOT INDICATED ON DRAWINGS.</div><div>4. PROVIDE GROUNDING BUSHINGS ON METAL CONDUIT TERMINATIONS AT SWITCHBOARDS, PANELBOARDS, JUNCTION BOXES, TRANSFORMERS, OR OTHER ENCLOSURES. T&B #3870, OR EQUAL. PROVIDE COPPER BONDING JUMPER FROM GROUNDING BUSHING TO ENCLOSURE WITH LUG TERMINATION BOLTED TO THE ENCLOSURE.</div></div></div></div></div>	
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<div><div>C3</div><div>N.T.S.</div><div>GROUNDING AND BONDING</div></div>	
<div><div>ENCLOSED SWITCHES AND CIRCUIT BREAKERS</div><div><div><div><div>1. GENERAL</div><div>1. SUBMITTALS: FOR PRODUCTS FURNISHED</div><div>2. SEISMIC REQUIREMENTS: RATED FOR APPLICATION AND PROJECT LOCATION.</div></div><div><div>2. PRODUCTS</div><div>1. MANUFACTURERS: EATON, SCHNEIDER, SIEMENS</div><div>SWITCH: TYPE HEAVY DUTY, 3 POLE, SINGLE THROW, LOCKABLE HANDLE, GROUND KIT, NEMA 1 DRY LOCATION, NEMA 3R DAMP OR WET LOCATION, AND NEMA 4X IN HAZARDOUS ENVIRONMENT.</div><div>2. MOLDED CASE CIRCUIT BREAKER: UL 489, NEMA AB1, NEMA AB3 WITH SCCR AS NOTED. THERMAL MAGNETIC TRIP ELEMENT. EXTERNAL HANDLE.</div><div>3. ENCLOSURE: NEMA 1 DRY LOCATION, NEMA 3R DAMP OR WET LOCATION, AND NEMA 4X IN HAZARDOUS ENVIRONMENT.</div><div>4. MANUFACTURERS</div><div>1. ACCEPTABLE CIRCUIT BREAKER AND DISCONNECT SWITCH MANUFACTURERS:</div><div>1. GENERAL ELECTRIC CO.</div><div>2. SQUARE D, DIV. SCHNEIDER ELECTRIC</div><div>3. CUTLER-HAMMER, DIV. EATON CORP.</div><div>4. SIEMENS INDUSTRY, INC.</div><div>2. CIRCUIT BREAKERS COMPATIBLE WITH EXISTING PANELBOARDS.</div></div></div><div><div>3. EXECUTION</div><div>1. FURNISH AND INSTALL DISCONNECT SWITCHES, WHERE INDICATED ON THE DRAWINGS AND/OR WHERE REQUIRED BY CODE. DISCONNECT SWITCHES SHALL BE FUSIBLE OR NON-FUSIBLE, AS INDICATED OR REQUIRED, TO PROVIDE THE REQUIRED DISCONNECT MEANS AND/OR BRANCH CIRCUIT PROTECTION.</div></div></div></div>	
<div><div>D3</div><div>N.T.S.</div><div>ENCLOSED SWITCHES AND CIRCUIT BREAKERS</div></div>	

<div><div>CONDUIT</div><div><div><div><div>1. GENERAL:</div><div>1. CONDUIT SUBMITTAL: PROVIDE MANUFACTURER'S STANDARD CATALOG PAGES AND DATA SHEETS FOR CONDUITS AND FITTINGS.</div></div><div><div>2. PRODUCTS:</div><div>1. CONDUIT APPLICATIONS</div><div>1. RIGID POLY(VINYL CHLORIDE (PVC) CONDUIT.</div><div>1. UNDER SLAB, ON GRADE, OR DIRECT BURIED</div><div>2. CONCEALED WITHIN MASONRY WALLS</div><div>2. GALVANIZED STEEL RIGID METAL CONDUIT (RMC):</div><div>1. WHERE EMERGING FROM UNDERGROUND</div><div>2. CONDUIT ELBOWS UNDERGROUND WHERE 2 1/2 INCH PVC OR LARGER IS USED.</div><div>3. DAMP LOCATION, WET LOCATION, OR EXPOSED</div><div>3. ELECTRICAL METALLIC TUBING (EMT)</div><div>1. CONCEALED WITHIN HOLLOW STUD WALLS OR ACCESSIBLE CEILINGS</div><div>4. FLEXIBLE METAL CONDUIT (FMC):</div><div>1. FINAL CONNECTION TO LUMINAIRE ABOVE ACCESSIBLE CEILING.</div><div>2. DRY LOCATION FOR FINAL CONNECTION TO VIBRATING EQUIPMENT</div><div>3. FISHED IN EXISTING WALLS</div><div>5. LIQUIDTIGHT FLEXIBLE METAL CONDUIT (LFMC):</div><div>1. DAMP OR WET LOCATION FOR FINAL CONNECTION TO VIBRATING EQUIPMENT</div><div>2. MINIMUM ABOVE GROUND BRANCH CIRCUIT CONDUIT SIZE: 3/4 INCH.</div><div>3. MINIMUM UNDER GROUND BRANCH CIRCUIT CONDUIT SIZE: 1 INCH.</div><div>4. RMC AND EMT RACEWAY MANUFACTURERS</div><div>1. ALLIED TUBE AND CONDUIT</div><div>2. WHEATLAND TUBE COMPANY</div><div>3. REPUBLIC CONDUIT</div><div>4. APPROVED EQUAL</div><div>5. FMC AND LFMC MANUFACTURERS</div><div>1. AFC CABLE SYSTEMS</div><div>2. ELECTRI-FLEX COMPANY</div><div>3. INTERNATIONAL METAL HOSE</div><div>4. APPROVED EQUAL</div><div>6. PVC MANUFACTURERS</div><div>1. CANTEX INC</div><div>2. CARLON, A BRAND OF THOMAS & BETTS CORPORATION</div><div>3. JM EAGLE</div><div>4. APPROVED EQUAL</div></div><div><div>3. EXECUTION</div><div>1. PROVIDE FITTINGS LISTED FOR THE RACEWAY FURNISHED.</div><div>2. PROVIDE SEALING COMPOUND FOR SEALING FITTINGS LISTED FOR USE WITH FITTING TO BE INSTALLED</div><div>3. SLEEVE AND SEAL PENETRATIONS THROUGH RATED ASSEMBLIES.</div><div>4. SLEEVE AND WATER PROOF SEAL THROUGH ROOF AND EXTERIOR WALL PENETRATIONS INCLUDING CONDULET FITTING FOR INTERIOR PUTTY SEALANT.</div><div>5. RACEWAYS 2-1/2 INCH AND OVER: SEISMICALLY BRACE RACEWAYS LATERALLY AND LONGITUDINALLY. PROVIDE SEISMIC ASSEMBLIES RATED FOR THE APPLICATION.</div><div>6. PROVIDE INDEPENDENT SUPPORT FROM BUILDING STRUCTURE.</div><div>7. ARRANGE CONDUIT TO PROVIDE NO MORE THAN THE EQUIVALENT OF THREE 90 DEGREE BENDS BETWEEN PULL POINTS.</div><div>8. MAINTAIN AT LEAST 6 INCHES CLEARANCE FROM CONDUIT AND PIPING</div><div>9. MAINTAIN AT LEAST 12 INCH CLEARANCE FROM HOT SURFACES</div><div>10. PROVIDE CONDUIT STRAP TO SUPPORT SINGLE SURFACE-MOUNTED CONDUIT.</div><div>11. PROVIDE METAL CHANNEL (STRUT) WITH ACCESSORY CONDUIT CLAMPS TO SUPPORT MULTIPLE PARALLEL SURFACE-MOUNTED CONDUITS.</div><div>12. PROVIDE CONDUIT CLAMP TO SUPPORT SINGLE CONDUIT FROM BEAM CLAMP OR THREADED ROD.</div><div>13. PROVIDE TRAPEZE HANGERS ASSEMBLED FROM THREADED RODS AND METAL CHANNEL (STRUT) WITH ACCESSORY CONDUIT CLAMPS TO SUPPORT MULTIPLE PARALLEL SUSPENDED CONDUITS</div><div>14. PROVIDE INSULATING BUSHINGS OR INSULATED THROATS AT ALL CONDUIT TERMINATIONS TO PROTECT CONDUCTORS.</div><div>15. MAKE PENETRATIONS FOR ROOF-MOUNTED EQUIPMENT WITHIN ASSOCIATED EQUIPMENT OPENINGS AND CURBS WHERE POSSIBLE TO MINIMIZE ROOFING SYSTEM PENETRATIONS. WHERE PENETRATIONS ARE NECESSARY, SEAL AS INDICATED OR AS REQUIRED TO PRESERVE INTEGRITY OF ROOFING SYSTEM AND MAINTAIN ROOF WARRANTY.</div><div>16. BURY UNDERGROUND EXTERIOR CONDUIT MINIMUM 24 INCHES BELOW GRADE.</div></div></div></div></div>	
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<div><div>B4</div><div>N.T.S.</div><div>CONDUIT</div></div>	
<div><div>IDENTIFICATION</div><div><div><div><div>1. GENERAL</div><div>1. SUBMITTALS: NOT REQUIRED</div><div>2. DO NOT CONCEAL ITEMS TO BE IDENTIFIED, IN LOCATIONS SUCH AS ABOVE SUSPENDED CEILINGS, UNTIL IDENTIFICATION PRODUCTS HAVE BEEN INSTALLED.</div></div><div><div>2. PRODUCTS:</div><div>1. WIRE AND CABLE MARKERS</div><div>1. WRAP AROUND SELF-ADHESIVE VINYL SELF-LAMINATING TYPE MARKERS SUITABLE FOR THE CONDUCTOR OR CABLE TO BE IDENTIFIED. 1/8 INCH TEXT HEIGHT, BLACK TEXT ON WHITE BACKGROUND</div><div>2. PANELBOARD NAMEPLATE: 2 INCH BY 4 INCH ENGRAVED. BLACK PLASTIC WITH 3/16 INCH BLACK LETTERING. INDICATE PANELBOARD NAME, AMPERAGE, VOLTAGE, PHASE, AND POWER SOURCE. ARC-FLASH HAZARD WARNING LABEL: 4 INCH BY 6 INCH SELF-ADHESIVE VINYL.</div><div>1. USE TYPEWRITTEN CIRCUIT DIRECTORY. IDENTIFY PANELBOARD NAME, LOADS SERVED, SPARES AND SPACES.</div><div>3. ENCLOSED SWITCHES: 2 INCH BY 4 INCH ENGRAVED. BLACK PLASTIC WITH 3/16 INCH BLACK LETTERING. INDICATE VOLTAGE, PHASE, AND POWER SOURCE.</div><div>4. WIRING DEVICES: 1/2 INCH SELF-ADHESIVE PRINTED LABEL, WHITE WITH BLACK LETTERING, ON COVER PLATE, INDICATING PANEL AND CIRCUIT.</div><div>5. BOXES: 1/4 INCH HAND LETTERING INDICATING PANELBOARD AND CIRCUIT NUMBERS. PERMANENT FELT TIP MARKER.</div><div>6. IDENTIFY SERVICE DISCONNECT WITH 1 INCH BY 2 INCH ENGRAVED. BLACK PLASTIC WITH 3/16 INCH BLACK LETTERING.</div><div>7. NAMEPLATE MANUFACTURERS:</div><div>1. BRIMAR INDUSTRIES, INC</div><div>2. KOLBI PIPE MARKER CO</div><div>3. SETON IDENTIFICATION PRODUCT</div><div>4. APPROVED EQUAL</div><div>8. LABEL MANUFACTURERS:</div><div>1. BRADY CORPORATION</div><div>2. BROTHER INTERNATIONAL CORPORATION</div><div>3. PANDUIT CORP</div><div>4. APPROVED EQUAL</div></div><div><div>3. EXECUTION</div><div>1. INSTALL IDENTIFICATION PRODUCTS TO BE PLAINLY VISIBLE FOR EXAMINATION, ADJUSTMENT, SERVICING, AND MAINTENANCE. UNLESS OTHERWISE INDICATED, LOCATE PRODUCTS AS FOLLOWS:</div><div>1. SURFACE-MOUNTED EQUIPMENT: ENCLOSURE FRONT.</div><div>2. FLUSH-MOUNTED EQUIPMENT: INSIDE OF EQUIPMENT DOOR.</div><div>3. FREE-STANDING EQUIPMENT: ENCLOSURE FRONT; ALSO ENCLOSURE REAR FOR EQUIPMENT WITH REAR ACCESS.</div><div>4. ELEVATED EQUIPMENT: LEGIBLE FROM THE FLOOR OR WORKING PLATFORM.</div><div>5. BRANCH DEVICES: ADJACENT TO DEVICE.</div><div>6. INTERIOR COMPONENTS: LEGIBLE FROM THE POINT OF ACCESS.</div><div>7. CONDUITS: LEGIBLE FROM THE FLOOR.</div><div>8. BOXES: OUTSIDE FACE OF COVER.</div><div>9. CONDUCTORS AND CABLES: LEGIBLE FROM THE POINT OF ACCESS.</div><div>10. DEVICES: OUTSIDE FACE OF COVER.</div></div></div></div></div>	

<div><div>D4</div><div>N.T.S.</div><div>IDENTIFICATION</div></div>	
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8/23/2024

STATE OF TENNESSEE

ELECTION
COMMISSION
BUILDING
RENOVATION

BROWNSVILLE, TN

100% CONSTRUCTION
DOCUMENTS

REVISIONS

PROJECT NO.

24282

DATE

AUGUST 14, 2024

DRAWN

CDR

CHECKED

SM

ELECTRICAL
SPECIFICATIONS

E7.0