

Bid / Permit
13 May 2026
IA Project: 20251010



751/26054.HJD HARTWICK PINES STATE PARK - VISITOR CENTER EXHIBIT SPACE

3612 State Park Drive, Grayling, MI 49738

Owner:

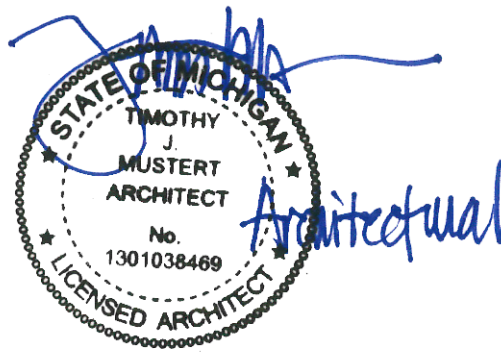
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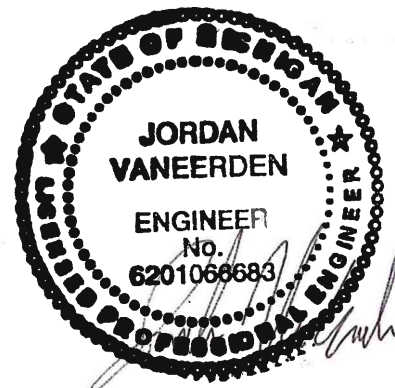
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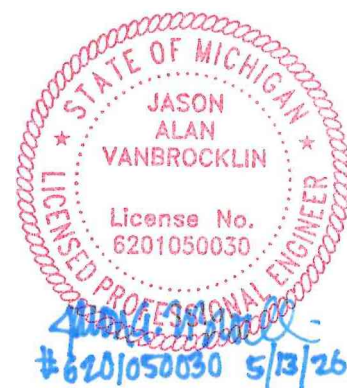
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STATE OF MICHIGAN
DEPARTMENT OF TECHNOLOGY, MANAGEMENT AND BUDGET
STATE FACILITIES ADMINISTRATION
DESIGN AND CONSTRUCTION DIVISION
ADAM P. LACH, R.A. DIRECTOR

751/26054.HJD HARTWICK PINES STATE
PARK - VISITOR CENTER EXHIBIT SPACE
3612 State Park Drive, Grayling, MI 49738

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GENERAL NOTES

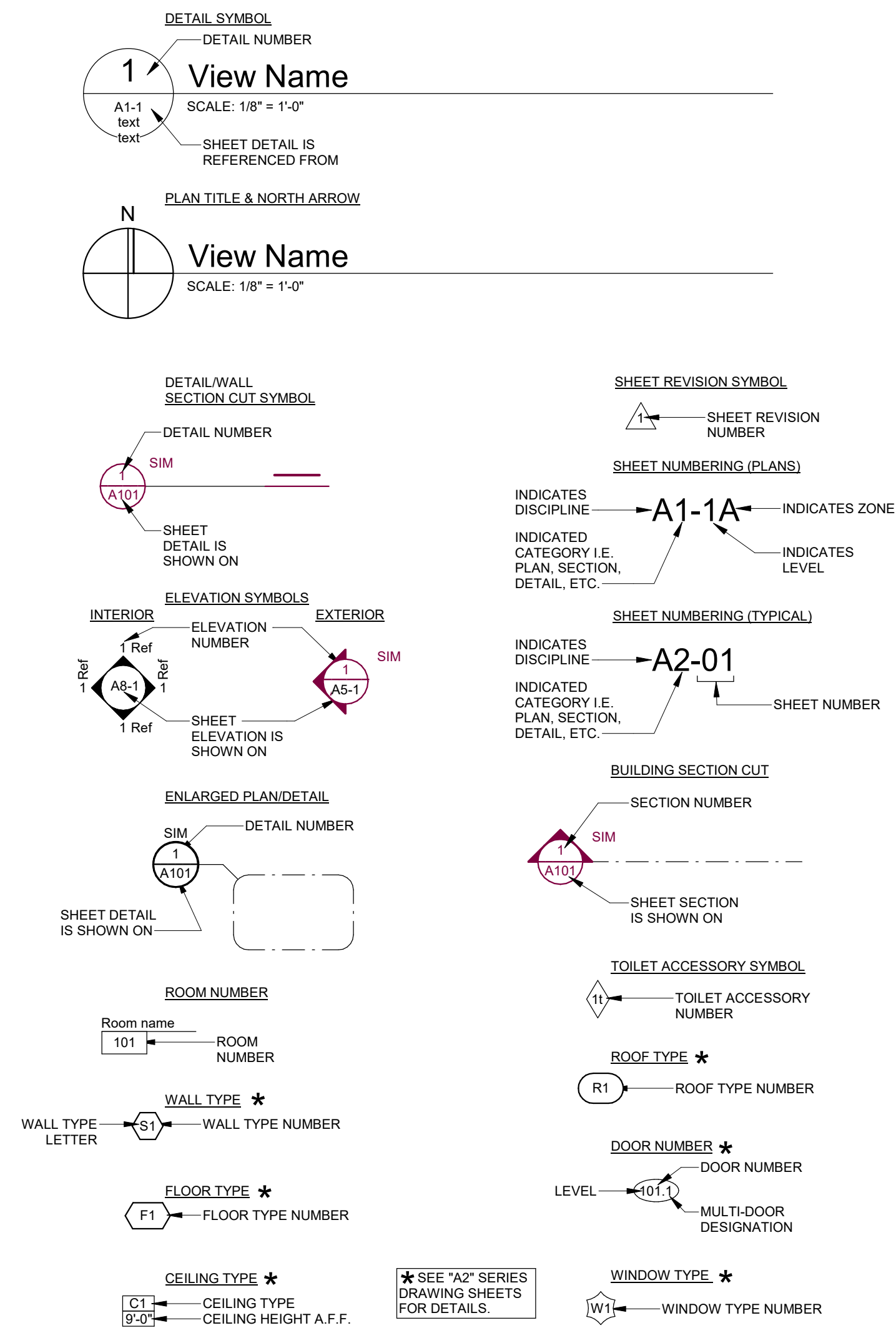
THESE NOTES APPLY TO ALL DRAWINGS

- THE CONTRACTOR SHALL TAKE ALL NECESSARY FIELD MEASUREMENTS AND OTHERWISE VERIFY ALL DIMENSIONS SHOWN ON THE DRAWINGS, INCLUDING THE CONTRACTORS, SUBCONTRACTORS AND MANUFACTURERS SHOP DRAWINGS. SHOULD ANY ERROR OR INCONSISTENCY EXIST, THE CONTRACTOR SHALL NOT PROCEED WITH THE WORK AFFECTED THEREBY UNTIL HE HAS NOTIFIED THE ARCHITECT.
- THE CONTRACTOR SHALL VERIFY SIZES OF ALL OPENINGS, CURBS, BASES, RECESSES, ANCHOR BOLT SIZES AND LOCATIONS WITH CERTIFIED DRAWINGS OF EQUIPMENT APPROVED FOR SUBJECT LOCATIONS BEFORE PROCEEDING WITH THE WORK.
- CONTRACTOR SHALL NOT PROCEED WITH DETAILING, FABRICATION OR CONSTRUCTION OF ANY WORK CONNECTED WITH OR DEPENDANT ON EQUIPMENT FURNISHED BY "OWNER" OR "OTHER CONTRACTORS" UNTIL HE HAS RECEIVED CERTIFIED OR APPROVED EQUIPMENT DRAWINGS.
- CONSTRUCTION SHALL COMPLY WITH ALL CODES, RECOGNIZED STANDARDS AND BUILDING PRACTICES, AND REGULATIONS OF GOVERNING AUTHORITIES. IN ADDITION, CONSTRUCTION SHALL COMPLY WITH RECOMMENDATIONS, PROCEDURES, SPECIFICATIONS, AND STANDARD DETAILS OF MANUFACTURERS AND LICENSED INSTALLERS OF BUILDING COMPONENTS, SYSTEMS, AND ASSEMBLIES.
- GENERAL NOTES APPLY TO ALL DRAWINGS AND CONTRACTOR SHALL FAMILIARIZE HIMSELF WITH THEM AND REPORT ANY DISCREPANCIES TO THE ARCHITECT FOR CLARIFICATION PRIOR TO CONSTRUCTION OR BIDDING.
- CONTRACTOR TO INSPECT THE SITE AND BUILDING TO VERIFY ALL EXISTING CONDITIONS, LOCATIONS AND DIMENSIONS THAT PERTAIN TO THE WORK PRIOR TO BID SUBMISSION AND SHALL NOTIFY ARCHITECT OF ANY DISCREPANCIES.
- CONTRACT DOCUMENTS INCLUDE THE DRAWINGS, THE PROJECT MANUAL, AND ANY ADDENDA, CONSTRUCTION CHANGE DIRECTIVE OR CHANGE ORDERS RELATING THERETO.
- NO PARTIAL SETS OF DRAWINGS OR PROJECT MANUAL ARE TO BE USED FOR BIDDING.
- DRAWINGS MAY HAVE BEEN REPRODUCED AT A DIFFERENT SIZE THAN ORIGINALLY DRAWN. THE OWNER AND ARCHITECT ASSUME NO RESPONSIBILITY FOR USE OF INCORRECT SCALE. DRAWINGS ARE NOT TO BE SCALED.
- SHOULD THERE BE ANY CONFLICT(S) BETWEEN OR WITHIN DRAWINGS AND/OR SPECIFICATIONS, WHICH ARE NOT RESOLVED IN WRITING BY THE ARCHITECT PRIOR TO RECEIPT OF BIDS, THAT WHICH REQUIRES THE HIGHEST DEGREE OF PERFORMANCE, QUALITY, QUANTITY, STRENGTH, FINISH, COMPLETION, COMPLEXITY, SOPHISTICATION, COST, ETC., WILL BE REQUIRED AND SHALL BE PROVIDED AT NO INCREASE IN CONTRACT AMOUNT. ALL SUCH CONFLICTS MUST BE REFERRED TO ARCHITECT IMMEDIATELY UPON DISCOVERY. SEE MICHISPEC SECTION 00700-1.3 FOR ADDITIONAL INFORMATION.
- TESTS, INSPECTIONS AND APPROVALS OF PORTIONS OF THE WORK REQUIRED BY THE CONTRACT DOCUMENTS OR BY LAWS, ORDINANCES, RULES, REGULATIONS OR ORDERS OF PUBLIC AUTHORITIES HAVING JURISDICTION SHALL BE MADE AT AN APPROPRIATE TIME, UNLESS OTHERWISE PROVIDED. THE CONTRACTOR SHALL MAKE ARRANGEMENTS FOR SUCH TESTS, INSPECTIONS AND APPROVALS WITH AN INDEPENDENT TESTING LABORATORY OR ENTITY ACCEPTABLE TO THE OWNER OR WITH THE APPROPRIATE PUBLIC AUTHORITY, AND SHALL BEAR ALL RELATED COSTS OF TESTS, INSPECTIONS AND APPROVALS.
- DRAWINGS, SPECIFICATIONS AND OTHER DOCUMENTS, INCLUDING THOSE IN ELECTRONIC FORMAT, PREPARED BY THE ARCHITECT AND THE ARCHITECTS CONSULTANTS, ARE INSTRUMENTS OF SERVICE FOR USE SOLELY WITH RESPECT TO THIS PROJECT. THE ARCHITECT AND THE ARCHITECTS CONSULTANTS SHALL BE DEEMED THE AUTHORS AND OWNERS OF THEIR RESPECTIVE INSTRUMENTS OF SERVICE AND SHALL RETAIN ALL COMMON LAW, STATUTORY AND OTHER RESERVED RIGHTS, INCLUDING COPYRIGHTS.
- IF UNDER ANY CIRCUMSTANCES THE ARCHITECT OR ANY OF HIS CONSULTANTS ARE WITHHELD PAYMENT FOR WORK PERFORMED OR YET TO BE PERFORMED, THE ARCHITECT WILL HAVE THE RIGHT TO WITHDRAW HIS PROFESSIONAL SEAL THEREBY REMOVING ANY LIABILITY FOR ALL WORK. THE OWNER, OWNERS AGENTS, GENERAL CONTRACTOR, SUBCONTRACTOR AND SUPPLIERS AGREE TO HOLD THE ARCHITECT HARMLESS OF ANY AND ALL COSTS AS A RESULT OF THIS ACTION. UPON RECEIPT OF PROMPT PAYMENTS THE ARCHITECT WILL RESUME WORK. IF EXTRA TIME OR SERVICES ARE REQUIRED TO ACCOMPLISH THIS THE ARCHITECT WILL BE PAID FOR ALL SUCH COSTS.
- ANY PARTIES THAT REQUIRE ELECTRONIC CAD DRAWING FILES (DWG OR DGN FORMAT) FROM THE ARCHITECT IN ORDER TO SUPPLEMENT THEIR SCOPE OF WORK WILL BE CHARGED A FEE FOR THIS INFORMATION ON A PER-FILE BASIS. FULL PAYMENT AND A SIGNED CAD RELEASE FORM MUST BE RECEIVED PRIOR TO THE ARCHITECT RELEASING ANY FILES. ARCHITECT RESERVES THE RIGHT TO WITHHOLD ELECTRONIC FILES IF EITHER THE PAYMENT OR SIGNED CAD RELEASE FORM ARE NOT PROVIDED. ELECTRONIC FILES IN PDF FORMAT ARE TO BE SUPPLIED BY THE CONSTRUCTION MANAGER FOR THE PROJECT. FEE WILL BE WAIVED FOR CAD FILES PROVIDED TO THE CLIENT, CONSULTANTS AND CONTRACTORS DIRECTLY INVOLVED IN THE PROJECT.
- NOTE THAT CERTAIN DETAILS AND NOTATIONS MAY NOT BE INDICATED AT ALL CONDITIONS OF CONSTRUCTION. DETAILS AND NOTATIONS OF SIMILAR CONDITIONS SHALL BE UTILIZED SUBJECT TO THE APPROVAL FROM THE ARCHITECT AND / OR ENGINEER.

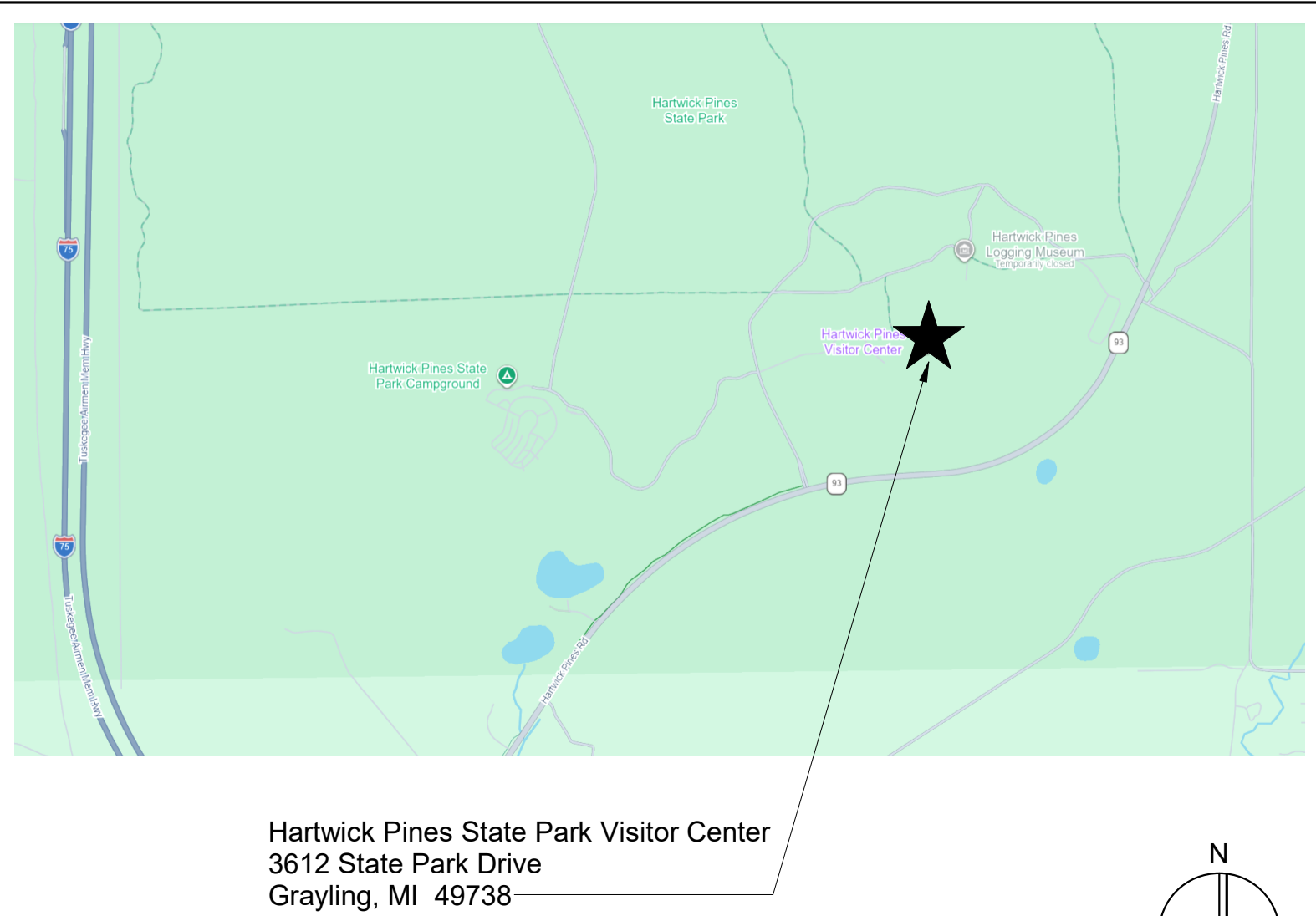
GENERAL PLAN NOTES

- ALL WALLS WITH ACOUSTIC INSULATION ARE TO RECEIVE SOUND SEALANT AT TOP AND BOTTOM OF WALL. FIRE RESISTANT RATED WALLS ARE TO BE FIRE STOPPED AT TOP OF WALL PER TYPICAL DETAILS.
- ALL DRYWALL TO RECEIVE CONTINUOUS CONCEALED "J" CHANNEL TERMINATION STRIPS WHERE DRYWALL ABUTS INTO ADJACENT SURFACES OF DISSIMILAR MATERIALS AND WHERE DRYWALL EDGES ARE EXPOSED. CAULK JOINT BETWEEN CHANNEL AND ADJACENT MATERIAL (I.E. WALL DRYWALL ABUTTING HM DOOR FRAMES).
- ALL MATERIALS AT AND ABOVE CEILING SYSTEMS ARE TO BE PLENUM RATED.
- REFER TO STRUCTURAL DRAWINGS FOR GENERAL INFORMATION REGARDING CONTROL AND EXPANSION JOINTS.
- PROVIDE A SEPARATION SHEET OF SELF-ADHERING MEMBRANE BETWEEN ALL TREATED WOOD PRODUCTS AND LIGHT GAUGE FRAMING (i.e. METAL).

SYMBOLS LEGEND



LOCATION MAP



ABBREVIATIONS

A	ANCHOR BOLT	F	FLOOR DRAIN	O	ON CENTER
A.C.T.	ACOUSTICAL CEILING TILE	F.D.	FLOOR DRAIN	O.C.	ON CENTER
A.F.F.	ABOVE-FINISHED FLOOR	F.E.C.	FIRE EXTINGUISHER CABINET	O.D.	OUTSIDE DIAMETER
AL	ALUMINUM	F.H.C.	FIRE HOSE CABINET	O.H.D.R.	OVERHEAD DOOR
A.P.	ACCESS PANEL	F.O.	FACE OF	OBS.GL.	OBSOLETE GLASS
A.P.G.	ACOUSTIC PANEL WITH GRID	F.S.	FULL SIZE	OPER.	OPERATOR
ABV.	ABOVE	FDN.	FOUNDATION	OPNG.	OPENING
ACOUS.	ACOUSTIC	FIN.	FINISH	OPP.	OPOSITE
ALUM.	ALUMINUM	FL.	FLOOR	P	
ANCH.	ANCHOR	FL.L.	FLOOR LINE	PT.	PAINT
ARCH.T.	ARCHITECTURAL TRADES	FLASH.	FLASHING	PTD.	PAINTED
ASPH.	ASPHALT	FR.	FRAME	P.I.V.	POST INDICATOR VALVE
		FRPFG.	FIREPROOFING	P.LAM.	PLASTIC LAMINATE
B		F.R.R.	FIRE RESISTANCE RATED	PART.	PARTITION
B.F.	BARRIER FREE	F.R.T.	FIRE RETARDANT TREATED	PCS.	PIECES
B.L.	BUILDING LINE	FT.	FOOT, FEET	PERM.	PERMANENT
B.P.	BASE PLATE	FTG.	FOOTING	PL.	PLATE
B.S.	BOTH SIDES	G		PL.GL.	PLATE GLASS
BD.	BOARD	G.B.	GRAB BAR, GRADE BEAM	PLAS.	PLASTER
BLDG.	BUILDING	G.C.	GENERAL CONTRACTOR	PLBG.	PLUMBING
BLK.	BLOCK	G.H.T.	GLAZED HOLLOW TILE	PLYWD.	PLYWOOD
BLKG.	BLOCKING	G.O.	GRILL OPENING	PROJ.	PROJECTOR
BLKHD.	BULKHEAD	GA.	GAUGE	Q	
BM.	BEAM	GALV.	GALVANIZED	Q.T.	QUARRY TILE
BRG.	BEARING	GL.	GLASS	R	
BRGC.	BRACING	GR.	GRADE	R.	RADIUS, RISER
C		GRGT.	GRATING	R.A.	RETURN AIR
C.B.	CATCH BASIN, CHALK BOARD	GYP.BD.	GYPSUM BOARD	R.C.	ROOF CONDUCTOR
CPT.	CARPET	H		R.D.	ROOF DRAIN
C TO C.	CENTER TO CENTER	H.M.	HOLLOW METAL	R.H.	RIGHT HAND
CIP	CAST IN PLACE	H.P.	HIGH POINT	R.O.	ROUGH OPENING
C.J.	CONTROL JOINT	HORIZ.	HORIZONTAL	R.S.	ROOF SUMP
C.L.	CENTER LINE	HT.	HEIGHT	RD.	ROUND
C.M.U.	CONCRETE MASONRY UNIT	HDW.	HARDWARE	RECVG.	RECEIVING
CAB.	CABINET	I		R.J.T.	RUSTICATION JOINT
CAULK.	CAULKING	I.D.	INSIDE DIAMETER	REINF.	REINFORCED
CEIL.	CEILING	I.E.	INVERT ELEVATION	REQD.	REQUIRED
CEM.	CEMENT	IN.	INCH, INCHES	REQ'S.	REQUIREMENTS
CER.	CERAMIC	INCL.	INCLUDING, INCLUSIVE	RM.	ROOM
C.T.	CERAMIC TILE	INS.MET.	INSULATED METAL	S	
CHKD.PL.	CHECKERED PLATE	INSUL.	INSULATION	S.A.	SUPPLY AIR
CLR.	CLEAR	INTER.	INTERIOR	S.A.B.	SOUND ATTENUATION BATTS
COL.	COLUMN	J		S.A.T.	SUSPENDED ACOUSTICAL TILE
COMP.	COMPRESSIBLE	JT.	JOINT	SECT.	SECTION
COMPO.	COMPOSITION	K		SER.REC.	SERVICE RECEPTOR
CONC.	CONCRETE	K.D.A.T.	KILN DRY AFTER TREATMENT	SH.	SHEET
CONN.	CONNECT, CONNECTION	L		SIM.	SIMILAR
CONST.	CONSTRUCTION	L.H.	LEFT HAND	SK	SINK
CONST.JT.	CONSTRUCTION JOINT	L.L.H.	LONG LEG HORIZONTAL	SPEC.	SPECIFICATION
CONT.	CONTINUOUS	L.L.V.	LONG LEG VERTICAL	SQ.	SQUARE
CONTR.	CONTRACTOR	L.O.	LOUVER OPENING	STL.	STEEL
CTR	CENTER	L.P.	LIGHTING PANEL	ST.ST.	STAINLESS STEEL
CTRD	CENTERED	LAD.	LADDER	STD.	STANDARD
D		LAM.	LAMINATED	STOR.	STORAGE
D.F.	DRINKING FOUNTAIN	LAV.	LAVATORY	STRUCT.	STRUCTURAL
D.O.	DOOR OPENING	LG.	LONG	SUPP.	SUPPORT
D.T.	DRAIN TILE	LGTH.	LENGTH	SUSP.	SUSPENDED, SUSPENSION
DET.	DETAIL	L.T.	LIGHT	T	
DIA.	DIAMETER	M		T.	TREAD
DIAG.	DIAGONAL	M.H.	MANHOLE	T.B.D.	TO BE DETERMINED
DIFF.	DIFFUSER	M.I.	MISCELLANEOUS IRON	T.I.G.	TEMP. INSUL. GL.
DIM.	DIMENSION	M.O.	MASONRY OPENING	THRES.	THRESHOLD
DMPFG.	DAMP-PROOFING	M.T.	MARBLE TILE	TOIL.	TOILET
DN.	DOWN	MAR.T.	MARBLE THRESHOLD	T & G.	TONGUE AND GROOVE
DR.	DOOR	MAS.	MASONRY	T.O.C.	TOP OF CONCRETE
DW.	DRYWALL	MATL.	MATERIAL	T.O.S.	TOP OF STEEL
E		MAX.	MAXIMUM	U	
E.W.	EACH WAY	M.B.	MARKER BOARD	U.F.A.D.	UNDERFLOOR AIR DISTRIBUTION
EA.	EACH	MECH.	MECHANICAL	U.N.O.	UNLESS NOTED OTHERWISE
EL.	ELEVATION	MEMB.W.P.	MEMBRANE WATERPROOFING	V	
ELECT.	ELECTRICAL	MTL.	METAL	VERT.	VERTICAL
ELEV.	ELEVATOR	MEZZ.	MEZZANINE	V.T.	VINYL TILE
ENCL.	ENCLOSURE	MFR.	MANUFACTURER	V.I.F.	VERIFY IN FIELD
EQ.	EQUAL	MIN.	MINIMUM	VIN.	VINYL
EQUIP.	EQUIPMENT	N		V.C.T.	VINYL COMPOSITE TILE
E.W.C.	ELECTRIC WATER COOLER	N.I.C.	NOT IN CONTRACT	VNC.	VINYL WALLCOVERING
EX.GR.	EXISTING GRADE	N.T.S.	NOT TO SCALE	W	
EXIST., (E)	EXISTING	NO.	NUMBER	W.C.	WATER CLOSET
EXP.JT.	EXPANSION JOINT	NOM.	NOMINAL	WPFG.	WATERPROOFING
EXT.	EXTERIOR			WD.	WOOD

CODE REVIEW (GENERAL)

HARTWICK PINES STATE PARK VISITORS CENTER EXHIBIT SPACE RENOVATION
3612 State Park Drive, Grayling, MI 49738
IA PROJECT NUMBER: 20251010

JURISDICTION: STATE OF MICHIGAN

BUILDING CODE: 2021 MICHIGAN BUILDING CODE
REHABILITATION CODE: 2021 MICHIGAN REHABILITATION CODE FOR EXISTING BUILDINGS
MECHANICAL CODE: 2021 MICHIGAN MECHANICAL CODE
PLUMBING CODE: 2021 MICHIGAN PLUMBING CODE
ELECTRIC CODE: 2023 NATIONAL ELECTRIC CODE (PART 8 MICHIGAN ELECTRICAL CODE RULES)
BARRIER FREE CODE: 2021 MICHIGAN BUILDING CODE (CHAPTER 11) & ICC A117.1 - 2017
ENERGY CODE: 2021 MICHIGAN BUILDING CODE & ASHRAE 90.1-2019

BUILDING CODE / OCCUPANCY APPROVAL: STATE BUREAU OF CONSTRUCTION CODES

PROJECT SUMMARY:
Renovation to existing State Park Visitor Center focusing primarily on interior spaces. Work in the east wing of the building includes removing walls at the existing Conference Room, modifying the existing Exhibit Space, finish upgrades, converting an existing stair into a single occupancy restroom, and modifications to the existing MEP systems as related to project scope. A plastic laminate repair will occur in the west wing of the building. Alternates are planned for a lighting upgrade in the central Lobby portion of the building and an alternate for full installation of an adult changing station unit (adult changing station preparation is included in the base bid). The work is a Level 2 Alteration per the Michigan Rehab Code.

EXISTING BUILDING SUMMARY
- THE ENTIRE SCOPE OF WORK IS RENOVATION
- FIRE SUPPRESSION: BASEMENT ONLY HAS EXISTING FIRE SUPPRESSION- NO CHANGE

GROSS FLOOR AREA: 10,628 sqf. NO CHANGE
LOWER LEVEL: 1,694 gsf occupied, additional 6,515 GSF non-occupied crawlspace
MAIN FLOOR: 8,934 gsf

CONSTRUCTION TYPE
TYPE VB-NO CHANGE

PLUMBING COUNT

2021 MICHIGAN PLUMBING CODE

Table 403.1 Minimum Number of Required Plumbing Fixtures

A-3 Use Group
Occupant load = 159 occupants = 80 males, 80 females
Water closets = 1 per 125 for males = 80 / 125 = 1 water closet required
Water closets = 1 per 65 for females = 80 / 65 = 2 water closets required
Lavatories = 1 per 200 for males = 80 / 200 = 1 lavatory required
Lavatories = 1 per 200 for females = 80 / 200 = 1 lavatory required
Drinking fountains = 1 per 500 = 159 / 500 = 0.32 drinking fountain required
1 Service sink required

B Use Group
Occupant load, shared/staff areas = 36 occupants = 19 males, 19 females
Water closets = 1 per 25 for first 50 for males = 19 / 25 = 1 water closet required
Water closets = 1 per 25 for first 50 for females = 19 / 25 = 1 water closet required
Lavatories = 1 per 40 for the first (80) males = 19 / 40 = 1 lavatory required
Lavatories = 1 per 40 for the first (80) females = 19 / 40 = 1 lavatory required
Drinking fountains = 1 per 100 = 36 / 100 = 0.36 drinking fountain required
1 Service sink required

S-1 Use Group
Occupant load = 6 occupants = 3 males, 3 females
Water closets = 1 per 100 for males = 3 / 100 = 1 water closets required
Water closets = 1 per 100 for females = 3 / 100 = 1 water closet required
Lavatories = 1 per 100 for males = 3 / 100 = 1 lavatory required
Lavatories = 1 per 100 for females = 3 / 100 = 1 lavatory required
Drinking fountains = 1 per 1,000 = 6 / 1,000 = 0.006 drinking fountain required
1 Service sink required

PLUMBING FIXTURE COMPLIANCE	REQUIRED	PROVIDED
WATER CLOSETS (MALE)	3	2 WC, 2 URINAL (EXISTING)
WATER CLOSETS (FEMALE)	4	4 (EXISTING)
WATER CLOSETS (UNISEX)	0	1
LAVATORY (MALE)	3	3 (EXISTING)
LAVATORY (FEMALE)	3	3 (EXISTING)
LAVATORY (UNISEX)	0	1
DRINKING FOUNTAIN	1	1 (EXISTING, SINGLE LEVEL)
SERVICE SINK	3	2 (EXISTING)

ENERGY CODE COMPLIANCE NOTES

1. THIS PROJECT IS GOVERNED BY ASHRAE 90.1-2019 AS IT IS COMMERCIAL USE.
2. THIS PROJECT IS LOCATED IN CLIMATE ZONE 6A.
3. MINIMUM R-VALUES: PROJECT SCOPE DOES NOT IMPACT ENVELOPE, NO CHANGE.

CODE REVIEW (MI REHAB CODE & MBC)

Chapter 3 - Use and Occupancy Classification
303.4 Assembly Group A-3 – exhibition hall, lecture hall
304.1 Business Group B – office
311.2 Moderate-Hazard Storage S-1 – books and paper, cardboard, clothing, furniture

Chapter 5 General Building Heights and Areas
Section 503.1 General – Unless otherwise specifically modified in Chapter 4 and this chapter, building height, number of stories and building area shall not exceed the limits specified in Sections 504 and 506 based on the type of construction as determined by Section 602 and the occupancies as determined by Section 302 except as modified hereafter. Building height, number of stories and building area provisions shall be applied independently. For the purposes of determining area limitations, height limitations and types of construction, each portion of a building separated by one or more fire walls complying with Section 706 shall be considered to be a separate building.

Table 504.3 – Allowable Building Height
Construction Type VB, Non-Sprinklered
Use Group A,B,S = 40 feet
Provided: No Change. Existing Building is +/- 32'-8".
Table 504.4 – Allowable Number of Stories Above Grade
Construction Type VB, Non-Sprinklered
Use Group A-3 = 1 story
Use Group B = 2 stories
Use Group S-1 = 1 story
Provided: No Change. Existing A-3 occupancies on the main level egress to an elevated walkway leading to a public way at grade. Existing S-1 occupancy egress is to grade at lower level.

Table 506.2 – Allowable Area
Construction Type VB, Non-Sprinklered
Use Group A-3 = 6,000 sf
Use Group B = 9,000 sf
Use Group S-1 = 9,000 sf
Provided: No Change. First Floor A-3 and B uses total 8,934 square feet. The Lower Level S-1 use is 1,694 square feet and does have a sprinkler system (unknown NFPA type). See Rehab Code 301.3 Exception.

Section 508 Mixed Use and Occupancy
508.2 Accessory Occupancies – Occupancies that are ancillary to the main occupancy.
508.2.3 Area Limitations – Aggregate accessory occupancies shall not occupy more than 10% of the building area of that story and shall not exceed the tabular values in Table 503.
508.2.4 Separation of Occupancies – No separation is required between accessory occupancies and the main occupancy.
508.3 Nonseparated occupancies
508.3.1 – Occupancy classification – Nonseparated occupancies shall be individually classified in accordance with Section 302.1. The requirements of this code shall apply to each portion of the building based on the occupancy classification of that space. In addition, the most restrictive provisions of Chapter 9 that apply to the nonseparated occupancies shall apply to the total nonseparated occupancy area.
508.3.2 Allowable Building Area, Height and Number of Stories – The allowable building area, height and number of stories of the building or portion thereof shall be based on the most restrictive allowances for the occupancy groups under consideration for the type of construction of the building in accordance with Section 503.1.
508.3.3 Separation – No separation is required between occupancies.
Provided: No Change. See Rehab Code 301.3 Exception. Fire rated partition location at Stair 118 from record drawings will be maintained.

Chapter 6 Types of Construction
Table 601
Type VB Construction
Primary Structural Frame: 0-hour fire rated construction
Bearing Walls
Exterior: 0-hour fire rated construction
Interior: 0-hour fire rated construction
Nonbearing Walls and Partitions
Exterior: See 705.5
Interior: 0-hour fire rated construction
Floor Construction and associated secondary members: 0-hour fire rated construction
Roof Construction and associated secondary members: 0-hour fire rated construction

Chapter 8 - Interior Finishes
Table 803.13 – Interior Wall and Ceiling Finish Requirements by Occupancy
Use Group A-3 (non-sprinklered)
Interior Exit Stairways, Ramps and Passageways A
Corridors & enclosures for exit access stairways & ramps A
Rooms & Enclosed Spaces C
Use Group B (non-sprinklered)
Interior Exit Stairways, Ramps and Passageways A
Corridors & enclosures for exit access stairways & ramps B
Rooms & Enclosed Spaces C
Use Group S-1 (non-sprinklered)
Interior Exit Stairways, Ramps and Passageways B
Corridors & enclosures for exit access stairways & ramps B
Rooms & Enclosed Spaces C

Chapter 9 – Fire Protection Systems
Section 906 Portable Fire Extinguishers
906.1 Where required:
1. In Group A, B, E, F, I, L, M, R-1, R-2, R-4 and S occupancies.
4. On each floor of buildings under construction.
5. Where required by the International Fire Code sections indicated in Table 906.1
906.2 General Requirements – Portable fire extinguishers shall be selected and installed in accordance with NFPA 10.
906.3 – Size and Distribution (Table 906.3) – Maximum distance to fire extinguisher - 75 feet
Section 907 Fire Alarm and Detection Systems
907.2 Where required – New buildings and structures – An approved fire alarm system installed in accordance with the provisions of this code and NFPA 72.
Provided: A Fire Alarm Control Panel is present on site.

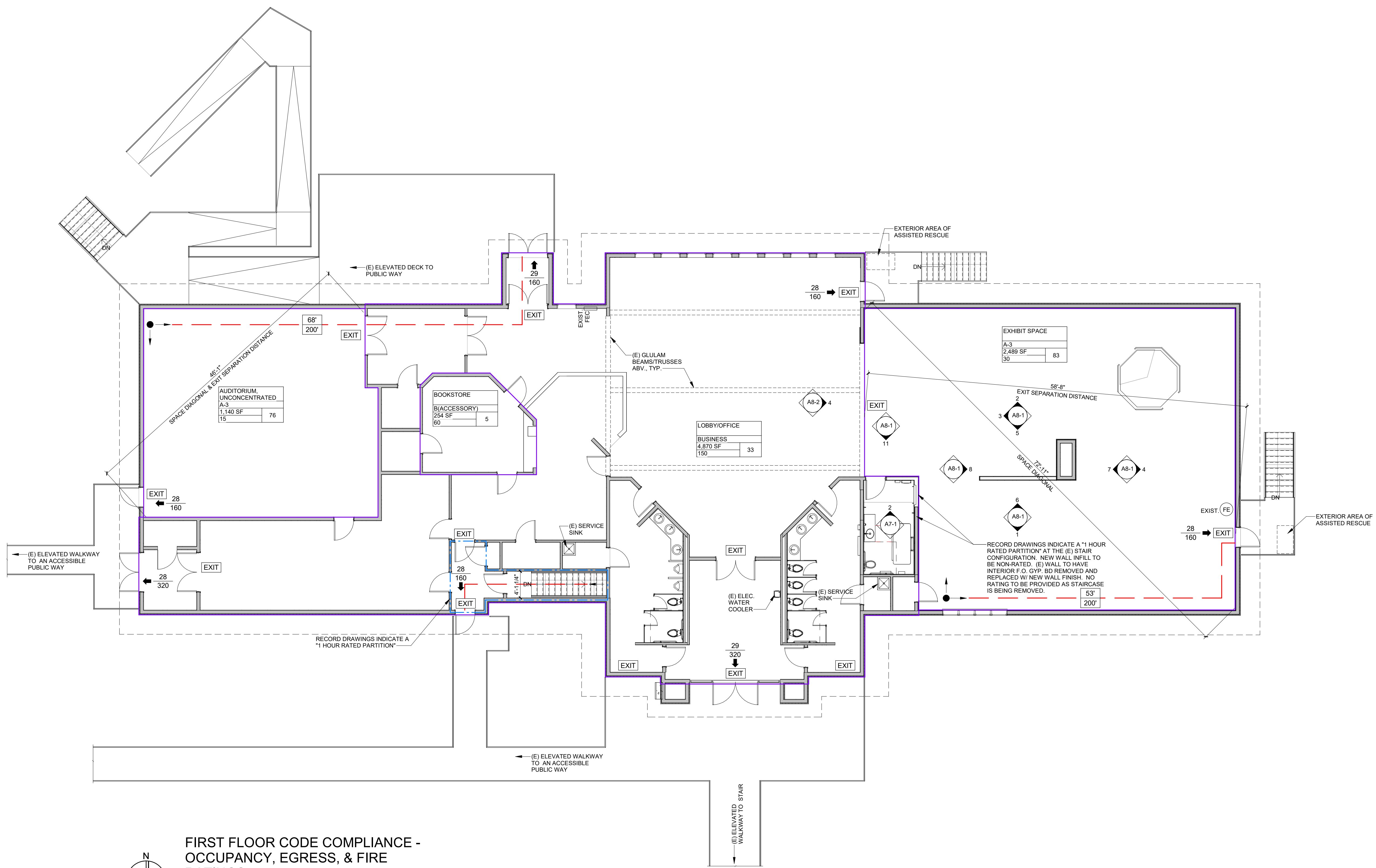
Chapter 10 Means of Egress
Table 1004.5 Maximum Floor Area Allowances Per Occupant
Accessory storage areas, mechanical equipment room – 300 gross
Assembly Exhibit Gallery – 30 net
Assembly Unconcentrated (tables & chairs) – 15 net
Business areas - 150 gross
Mercantile – 60 gross
Occupant Load Calculation:
See plan sheets
Section 1005 Means of Egress Sizing
1005.3.1 Stairways
Occupant Load = 0.3 inch/occupant
Provided: No Change. 0.3 * 6 = 1.8" required. Existing Basement Storage stair +/- 4'-1 1/4" width.
1005.3.2 Other Egress Components
Occupant Load = 0.2 inch/occupant
Provided: No Change. 0.2 * 203 = 40.6" required. Existing exit door width 32".
Section 1006 Number of Exits and Exit Access Doorways
1006.2.1 – Egress based on occupant load and common path of egress travel distance – two exits shall be provided where the occupant load or common path of travel exceeds the values in Table 1006.2.1.
Table 1006.2.1 Spaces with One Exit
Use Group A – max. occupant load = 49; max. cpt without sprinkler = 75 feet
Use Group B – max. occupant load = 49; max. cpt without sprinkler = 75 feet
Use Group S – max. occupant load = 29; max. cpt without sprinkler = 100 feet
Section 1007 Exit and Exit Access Doorway Configuration
1007.1.1 Two Exits or Exit Access Doorways – Where two exits, exit access doorways, exit access stairways or ramps, or any combination thereof, are required from any portion of the exit access, they shall be placed a distance apart equal to not less than one-half of the length of the maximum overall diagonal dimension of the building or area to be served measured in a straight line between them.
Section 1009 Accessible Means of Egress
1009.3.2 Stairway Width – Stairways shall have a clear width of 48 inches minimum between handrails.
Provided: No Change. Existing stair overall width +/- 4'-1 1/4". Approximate clear between handrails +/- 3'-6". See Rehab Code 301.3 Exception.
1009.3.3 Area of Refuge
Provided: No Change. None provided. See Rehab Code 301.3 Exception.

Section 1009.7 Exterior Areas for Assisted Rescue –
Exterior areas for assisted rescue shall be accessed by an accessible route from the area served. Where the exit discharge does not include an accessible route from an exit located on the level of exit discharge to a public way, an exterior area of assisted rescue shall be provided on the exterior landing in accordance with Sections 1009.7.1 through 1009.7.4.
1009.7.1 Size – Each exterior area for assisted rescue shall be sized to accommodate wheelchair spaces in accordance with Section 1009.6.3.
1009.7.2 Separation – Exterior walls separating the exterior area of assisted rescue from the interior of the building shall have a minimum fire-resistance rating of 1 hour, rated for exposure to fire from the inside. The fire-resistance-rated exterior wall construction shall extend horizontally 10 feet (3048 mm) beyond the landing on either side of the landing or equivalent fire-resistance-rated construction is permitted to extend out perpendicular to the exterior wall 4 feet (1220 mm) minimum on the side of the landing. The fire-resistance-rated construction shall extend vertically from the ground to a point 10 feet (3048 mm) above the floor level of the area for assisted rescue or to the roof line, whichever is lower. Openings within such fire-resistance-rated exterior walls shall be protected in accordance with Section 716.
1009.7.3 Openness – The exterior area for assisted rescue shall be open to the outside air. The sides other than the separation walls shall be not less than 50 percent open, and the open area shall be distributed so as to minimize the accumulation of smoke or toxic gases.
Provided: No Change. Two existing exit doors would require Exterior Areas for Assisted Rescue per current Code. Size and Openness comply. Separation is unknown though existing drawings call out "5/8" Fire Rated Gypsum Board" at the interior face of all walls. See Rehab Code 301.3 Exception.

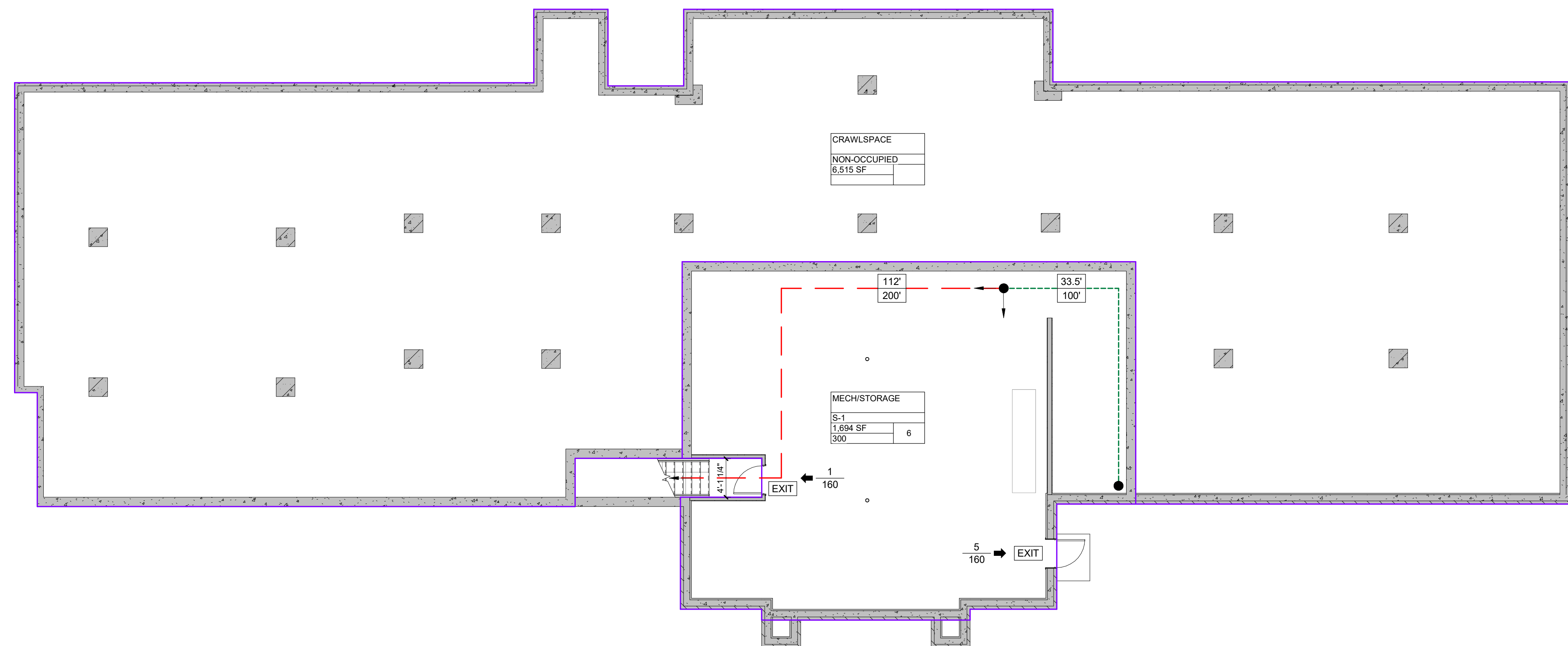
Section 1010 Doors, Gates, and Tunnels
1010.1.1 Size of Doors, Minimum width of each door opening shall be sufficient for the occupant load thereof and shall provide a minimum clear width of 32 inches.
Section 1011 Stairs
1011.2 – Width and Capacity – minimum 44 inches
Provided: No Change. Existing stair 4'-1 1/4".
Section 1017 Exit Access Travel Distance
1017.2 Limitations – Exit access travel distance shall not exceed the values in Table 1017.2
A, S-1 Occupancy 200 feet without Sprinkler System
B Occupancy 200 feet without Sprinkler System
Section 1019 Exit Access Stairways and Ramps
1019.3 Occupancies other than Groups I-2 and I-3 – floor openings containing exit access stairways and ramps shall be enclosed with a shaft enclosure constructed in accordance with Section 713.
Exception 1. Exit access stairways and ramps that serve or atmospherically communicate between only two adjacent stories. Such interconnected stories shall not be open to other stories.

Chapter 11 – Accessibility
Section 1104 Accessible Routes
1104.1 Site Arrival Points – Accessible routes with the site shall be provided from public transportation stops, accessible parking, accessible passenger loading zones; and public streets or sidewalks to the accessible building entrance served.
1104.2 Within a Site – At least one accessible route shall connect accessible buildings, accessible facilities, accessible elements and accessible spaces that are on the same site.
1104.3 Connected Spaces – When a building or portion of a building is required to be accessible, an accessible route shall be provided to each portion of the building to accessible building entrances connecting accessible pedestrian walkways and the public way.
Section 1105 Accessible Entrances
1105.1 Public Entrances – In addition to accessible entrances required by Sections 1105.1.2 through 1105.1.8, at least 60 percent of all public entrances shall be accessible.
Provided: No Change. All entrances are to remain

Plumbing Fixtures
2021 Michigan Plumbing Code
Chapter 4 Fixtures, Faucets and Fixture Fittings
Section 403 Minimum Plumbing Facilities
403.3 Employee and Public Toilet Facilities – For structures and tenant spaces intended for public utilization, customers, patrons and visitors shall be provided with public toilet facilities. Employees associated with structures and tenant spaces shall be provided with toilet facilities. The number of plumbing fixtures located within the required toilet facilities shall be provided in accordance with Section 403 for all users. Employee toilet facilities shall be either separate or combined employee and public toilet facilities.
Table 403.1 Minimum Number of Required Plumbing Fixtures
See PLUMBING COUNT chart on right, this sheet.



FIRST FLOOR CODE COMPLIANCE -
OCCUPANCY, EGRESS, & FIRE
RATINGS
SCALE: 1/8" = 1'-0"



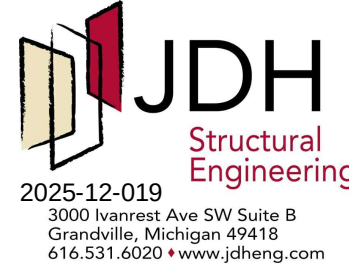
BASEMENT FLOOR CODE COMPLIANCE -
OCCUPANCY, EGRESS, & FIRE
RATINGS
SCALE: 1/8" = 1'-0"

CODE LEGEND (OCCUPANCY & EGRESS)

ROOM INFORMATION	ROOM S.F.	ROOM NAME	ROOM OCCUPANT LOAD
	CODE S.F. PER OCCUPANT	OCCUPANCY	
AREA BOUNDARY			
EXIT ACCESS TRAVEL DISTANCE (MBC 1017.2)	180' → ACTUAL DISTANCE 200' → ALLOWABLE DISTANCE		
COMMON PATH OF EGRESS TRAVEL (MBC 1006.2.1)	180' → ACTUAL DISTANCE 200' → ALLOWABLE DISTANCE		
BUILDING EXIT	85 → ACTUAL OCCUPANT LOAD 453 → ALLOWABLE OCCUPANT LOAD		
EXIT SIGNAGE	EXIT	NOTE: LOCATIONS SHOWN ARE EXISTING.	
FIRE EXTINGUISHER OR F.E. CABINET LOCATION	FE → FIRE EXTINGUISHER FEC → FIRE EXTINGUISHER CABINET (F.R.R.)		
DOOR EGRESS:	SINGLE 36" DOOR = 32" MIN. CLEAR / 0.2 = 160 OCCUPANTS PAIR 36" DOORS = 64" MIN. CLEAR / 0.2 = 320 OCCUPANTS		
STAIR EGRESS:	48" WIDE STAIR / 0.3 = 160 OCCUPANTS		

CODE LEGEND (FIRE RATINGS)

FIRE RESISTANCE RATED CONSTRUCTION	1 HOUR
NOTES: 1. SEE CODE COMPLIANCE PLANS FOR MORE INFO 2. THAT THESE LINE ARE INTENDED TO BE VIEWED IN COLOR, BUT THE DOT/DASH PATTERN OF THE LINES ALSO CORRESPONDS TO THE NOTED FIRE RATINGS	



ENGINEERING DATA

Lumber	Dimension lumber (SPF #2 or better)	Fb = 875 psi Fv = 135 psi Ft = 2600 psi Fu = 295 psi E = 2000 ksi
Engineered lumber (LVL)		

Structural design requirements

Floor live load (LL reductions used where permitted by code)	
Assembly Use	100 psf

Risk Category	II
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Specific Design Loads

Floor dead loads	
Sheathing	5
Structure	5
Ceiling	3
ME/P	2
Floor finish	7
Misc	25 psf Total
Roof dead loads	
Shingles (2 layers)	4
Insulation	2
Trusses	3
Roof Sheathing	3
Ceiling	3
ME/P	2
Misc	20 psf Total

Design codes

General building code	Michigan Building Code 2021
Concrete	ACI 318
Steel	AISC 360 - ASD
Wood	NDS
Environmental Loads	ASCE 7

GENERAL STRUCTURAL NOTES

- All work shall be performed in accordance with the contract documents. In case of a conflict with the contract documents, the more stringent condition shall govern, unless directed otherwise by the engineer of record. Prior to implementation, any discrepancies shall be reported to the architect for clarification.
- In the event that certain details of construction are not indicated or noted in the drawings, details for similar conditions that are indicated or noted shall be utilized, subject to the structural engineer's approval.
- Openings and penetrations through structural elements, and items embedded in structural elements that are not indicated in the structural drawings shall be reviewed by the structural engineer prior to fabrication, erection and/or construction.
- Materials or equipment shall not be placed on unfinished floors or roofs in excess of 20 psf nor on finished floors in excess of the design live loads which are indicated in the structural drawings. Impact loading shall be avoided.
- The structure has been designed for the in-service loads only. The methods, procedures and sequences of construction are the responsibility of the contractor. Contractor shall take all necessary precautions to maintain and ensure the integrity of the structure at all stages of construction. Contractor shall immediately notify the structural engineer of any condition which, in his opinion, might endanger the stability of the structure or cause distress in the structure.
- All existing conditions and all related dimensions indicated in the contract documents shall be field verified prior to fabrication, erection and/or construction. Any condition that differs from that indicated in the contract documents shall be submitted to the architect for review prior to fabrication, erection and/or construction.
- The structure has been designed to meet or exceed serviceability requirements of section 1604.3 of the Michigan Building Code. All non-structural components & their connections that are anchored to the structure shall be designed to allow for the movement of the structure caused by wind, snow, live, thermal, shrinkage/creep and earthquake loads. Non-structural components include items such as non-load bearing walls, MEP components, bulkheads, etc.
- Provide special inspection in accordance with chapter 17 of the Michigan Building Code and with project specifications.
- Unless noted otherwise, all loads specified in these documents are nominal loads and are to be entered into the appropriate strength or allowable stress design load combinations with appropriate factors, as defined by ASCE 7, by the building component engineer in the design of their product. Gravity load shear beam reactions on plan for steel framing represent the combined service load effect from allowable stress design load combinations.
- Post installed anchors shall be the specific product indicated. Where product substitutions are desired, they shall be submitted to engineer for review & approval a minimum of 2 weeks prior to planned installation. Adhesive anchors shall be installed using products that are approved by the supplier for all temperature considerations. Installation shall be in accordance with suppliers published installation instructions.
- Copies or reproductions of architectural or structural drawings and details will not be accepted as shop drawings. Submittals received as such will not be reviewed and will be rejected.

GENERAL POST INSTALLED ANCHOR NOTES

- Post installed anchors shall only be used where specified on the construction documents. The contractor shall obtain approval from the Architect prior to installing post installed anchors in place of missing or misplaced cast-in-place anchors.
- Unless otherwise noted in the drawings all post installed anchors are based on Hilti Corporation product information.
- If the contractor wants to submit an alternate anchor they must provide sealed calculations atleast 2 weeks prior to product use. These calculations must show that the strength of the substituted anchor meets or exceeds the strength of the specified anchor at each application in the project where a substituted anchor is proposed, with consideration for combined stress and any applicable reduction factors
- Within contract documents adhesive anchors may be generically referred to as epoxy anchors, where this occurs substitute the word epoxy with adhesive.
- Adhesive anchors shall be installed in concrete having a minimum age of 21 days at time of anchor installation.
- Mechanical anchors shall be installed in concrete having a minimum age of 7 days, and concrete having met minimum concrete compressive strength (F_c).
- Anchorage to concrete shall be done by either expansion anchors or adhesive anchors.
- Anchorage to solid masonry shall be done by either adhesive anchors or screw anchors see details for specific use.
- Anchorage to hollow or multi-wythe masonry shall be done with screen anchors.
- Provide ICC approved adhesive anchors based on the following:
 - Concrete Anchors
 - Automatic hole cleaning Hilti HIT-RE 500-V3 with HAS threaded rod or Hilti HIT HY 200 Safe Set with HY200 HAS threaded rod
 - No hole cleaning - Hilti HIT HY 200 Safe Set with HIT-Z or HIT-Z-R threaded rods
 - Masonry anchor - Hilti HIT HY 270 with HAS-E rods
- Provide ICC approved mechanical anchors based on the following:
 - Torque Control (TC) anchor - Hilti Kwik-bolt T22
 - Sleeve anchor - Hilti HLC Sleeve anchor
 - Screw anchor - Hilti Kwik-HUS-EZ
- See specifications for specific product information and installation instructions, and drawings for application use.
- All installations shall be done by an individual certified by the manufacturer. Certifications shall be submitted to the special inspector prior to commencement of work.
- All anchors shall be inspected as described in specifications.
- Anchor capacity is dependant on anchor spacing and edge distances. Install bolts as detailed. If anchors cannot be installed as detailed notify architect for alternate connection detail.
- Existing reinforcing bars in the concrete may conflict with specific anchor locations. Unless noted otherwise those bars are not to be cut. The contractor shall review the drawings and undertake a method to locate such bars.

POST INSTALLED ANCHOR SPEC NOTES

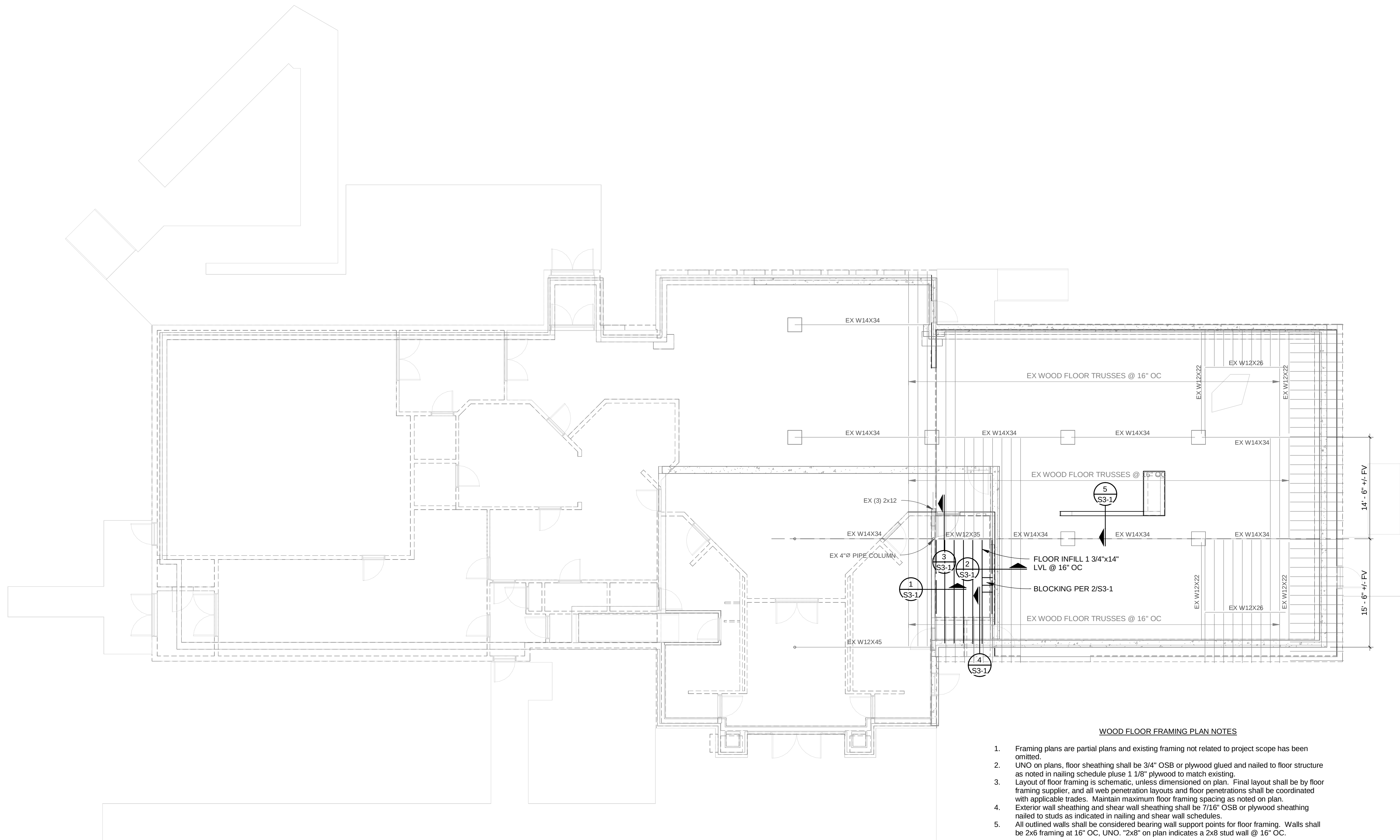
- All post installed anchors shall be done per ACI 318 & 355, ICC-ES AC01, ICC-ES AC58, ICC-ES AC09, ICC-ES AC106, ICC-ES AC193 and ICC-ES AC308 requirements, and as stated on contract documents.
- Provide submittals for Product Data, ICC reports, and installer certifications.
- All installations must be done by individuals certified by the manufacturer.
- For horizontal and upwardly inclined adhesive installations, the installer shall be certified by an ACI/CRSI Adhesive Anchor Installing Certification Program or equivalent.
- Unless otherwise specified, do not drill holes in concrete or masonry until concrete, mortar, or grout has met Manufacturer's specifications.
- Torque Controlled Anchors and Sleeve Anchors: Protect threads from damage during anchor installation. Set anchors to manufacturer's recommended torque, using a torque wrench. Following attainment of 100% of the specified torque, 100% of the specified torque shall be reached within 7 or fewer complete turns of the nut. If the specified torque is not achieved within the required number of turns, the anchor shall be removed and replaced unless otherwise directed by the Engineer.
- Screw Anchors: Install screw anchors to a snug tight condition unless noted otherwise.
- Adhesive anchors: Clean all rebar/manufacturer instructions to remove loose material and drilling dust prior to installation of adhesive. Inject adhesive into holes proceeding from the bottom of the hole and progressing toward the surface in such a manner as to avoid introduction of air pockets in the adhesive. Follow manufacturer recommendations to ensure proper mixing of adhesive components. Sufficient adhesive shall be injected in the hole to ensure that the annular gap is filled to the surface. Remove excess adhesive from the surface. Shim anchors with suitable device to center the anchor in the hole. Do not disturb or load anchors before manufacturer specified cure time has elapsed.
- Continuous special inspection of post-installed anchors shall be provided as required by ICC-ES evaluation reports. This service shall be performed by personnel independent of the Manufacturer or Contractor so as to prevent a conflict of interest.
- The Engineer or Architect of Record may require pullout or shear tests, in addition to Special inspection, to determine the adequacy of anchors. A field testing program shall be established by the independent test laboratory and/or Engineer of Record and performed in accordance with appropriate ASTM test standards. Field tests shall be non-destructive whenever possible.

WOOD NOTES

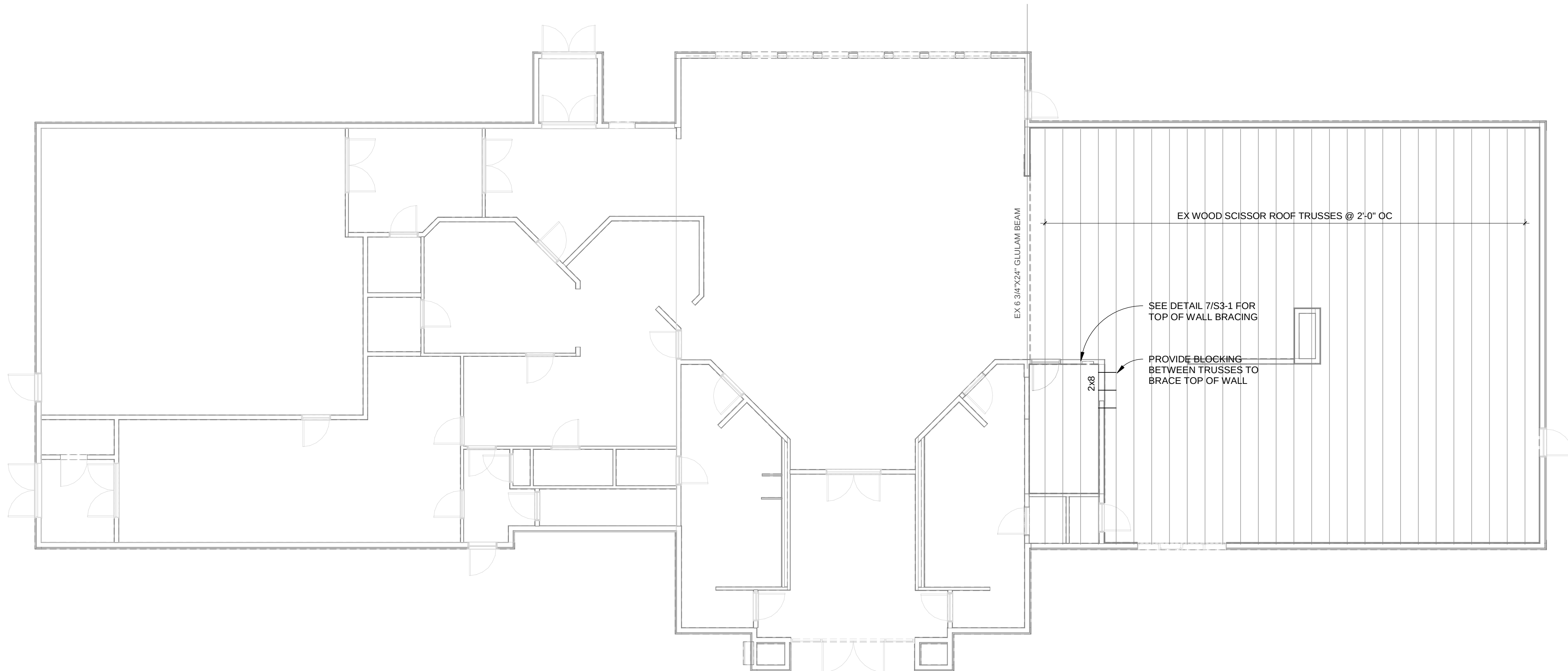
- Comply with National Design Specification (NDS), American Forest Products Association (AFPA), and American Institute of Wood Construction (AIWC).
- Bolt wall plates with 1/2" dia. anchor bolts at 32" o.c., unless otherwise noted. Bolt beam plates with 1/2" diameter bolts at 24" o.c., staggered.
- When treated lumber is in contact with steel (bolts, nails, fasteners, hangers, etc.), steel shall be G-185 galvanized or stainless. Dimensional lumber bolted to steel beams and columns shall be untreated, or protective coatings equivalent to G-185 shall be applied to the steel.
- Unless noted, align studs above and below with joists. Provide squash blocking to transfer loads at joists or trusses.
- At multiple ply framing members, provide at least one supporting stud per ply. Provide squash blocking to transfer loads as required.
- Provide minimum of two bearing studs at all beams and girder trusses, UNO.
- All Material used in load bearing stud walls shall be #2 or better. Refer to "Engineering Data" for minimum wood strength requirements, UNO.
- Unless noted otherwise, do not countersink bolts or fasteners into wood. Provide washers with bolts that are a minimum of 2 times the diameter of the bolt.
- Unless noted otherwise, refer to International Building Code Table 2304.9.1 for minimum nailing requirements. All nails shall be common wire nails.
- Comply with I-post suppliers' construction requirements and details, unless more stringent requirements are shown in construction documents.

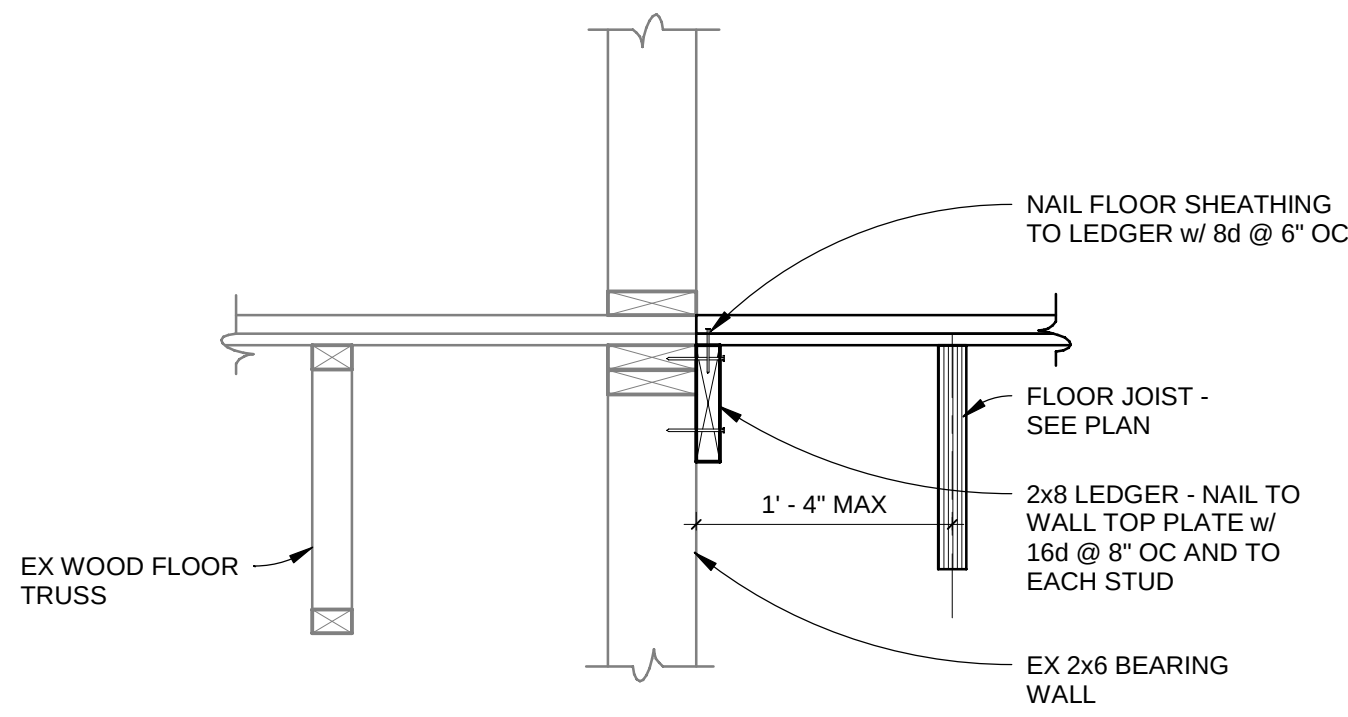
NAILING SCHEDULE		
ELEMENT	NAIL SIZE	NUMBER & LOCATION
STUD TO SOLE PLATE	16d	4 TOE NAIL OR 2 DIRECT NAIL
STUD TO CAP PLATE	16d	2 TOE NAIL OR 2 DIRECT NAIL
DOUBLE STUDS	10d	12" OC DIRECT
CORNER STUDS	16d	24" OC DIRECT
DOUBLE CAP PLATE	10d	16" OC DIRECT
ROOF SHEATHING	8d	6" OC DIRECT EDGES AND 12" OC INTERMEDIATE
WALL SHEATHING	8d	6" OC ALL EDGES AND 12" OC INTERMEDIATE
FLOOR SHEATHING	8d	6" OC ALL EDGES AND 12" OC INTERMEDIATE
This schedule is a minimum nailing requirement. See specification, drawings and IBC table 2304.9.1 for possible higher requirements.		

STRUCTURAL ABBREVIATION INDEX		STRUCTURAL ABBREVIATION INDEX	
ABBREV.	ITEM	ABBREV.	ITEM
A/E	Architect/Engineer	INT	Interior
AB	Anchor Bolt/Column Anchor Rod	JB	Joist Bearing Elevation
ACIP	Augered Cast In Place	L	Lintel
AESS	Architecturally Exposed Structural Steel	L	Angle
AFF	Above Finished Floor	LAT	Lateral
ALT	Alternate	LD	Lud
AP	Anchor Plate	LF	Linear Foot
ARCH	Architectural	LG	Long
BB	Bond Beam	LLH	Long Leg Horizontal
BC	Bottom Chord	LLV	Long Leg Vertical
BCX	Bottom Chord Extension	LOCN	Location
BFF	Below Finished Floor	LP	Low Point
BL	Brick Ledge	LT	Light
BM	Beam	LW	Long Way
BO	Bottom of	LWB	Laminated Wood Beam
BOS	Bottom of Steel	MAX	Maximum
BP	Bearing Plate	MCJ	Masonry Control Joint
BRG	Bearing	MECH	Mechanical
BT	Bent	MIN	Minimum
CC	Center-to-Center	NS	Near Side
CANT	Canntever	NTS	Not To Scale
CBP	Column Base Plate	O/O	Out-to-Out
CFMF	Cold Formed Metal Framing	OC	On-Center
CFMT	Cold Formed Metal Truss	OD	Outside Diameter
CJ	Construction Joint	OF	Outside Face
CJ	Contraction Joint	OFD	Overflow Drain
CJ	Control Joint	OH	Opposite Hand
CJP	Complete Joint Penetration Weld	P	Pier
CL	Centerline	PAF	Power Actuated Fastener
CLR	Clear	PC	Precast
CMU	Concrete Masonry Unit	PEMB	Pre-Engineered Metal Building
COL	Column	PERP	Perpendicular
CONC	Concrete	PL	Plate
CONN	Connection, Connect	PT	Pressure Treated
CONT	Continuous	R, RAD	Radius
COORD	Coordinate	RD	Roof Drain
DA	Deck Angle	RE:	Reference, Refer to
DB	Deck Bar	REINF	Reinforce
DBE	Deck Bearing Elevation	REM	Remainder
DIA, Ø	Diameter	REQ'D	Required
DP	Deck Plate	RMW	Reinforced Masonry Wall
DWG	Drawing(s)	RTU	Roof Top Unit
EA	Each	RXN	Reaction
EF	Each Face	SC	Slip Critical
EL	Elevation	SC	Step Footing
EQ	Equal	SIM	Similar
ES	Each Side	SIP	Structural Insulated Panel
EW	Each Way	SOG	Slab On Grade
EX	Exsting	SPCS	Splices
EXP	Expansion	SS	Stainless Steel
EXT	Exterior	SST	Simpson Strong Tie
FD	Floor Drain	STL	Steel
FDN	Foundation	SW	Short Way
FF	Finished Floor	T&B	Top and Bottom
FEE	Finished Floor Elevation	TC	Top Chord
FP	Foundation Pier	TCX	Top Chord Extension
FS	Far Side	TO	Top of
FTG, F	Footing	TOB	Top of Beam
FV	Field Verify	TOP	Top of Footing
GA	Gauge	TOL	Top of Ledge
GALV	Galvanized	TOM	Top of Masonry
GB	Grade Beam	TOS	Top of Steel
GS	Grout Solid	TOW	Top of Wall
GT	Girder Truss	TYP	Typical
HD	Hold Down Anchor	UNO	Unless Noted Otherwise
HORZ	Horizontal	VERT	Vertical
HP	High Point	w/	With
HS	Headed Stud	w/o	Without
HT	Height	WF	Wall Footing
ID	Inside Diameter	W/P	Working Point
IF	Inside Face	WWF	Welded Wire Fabric

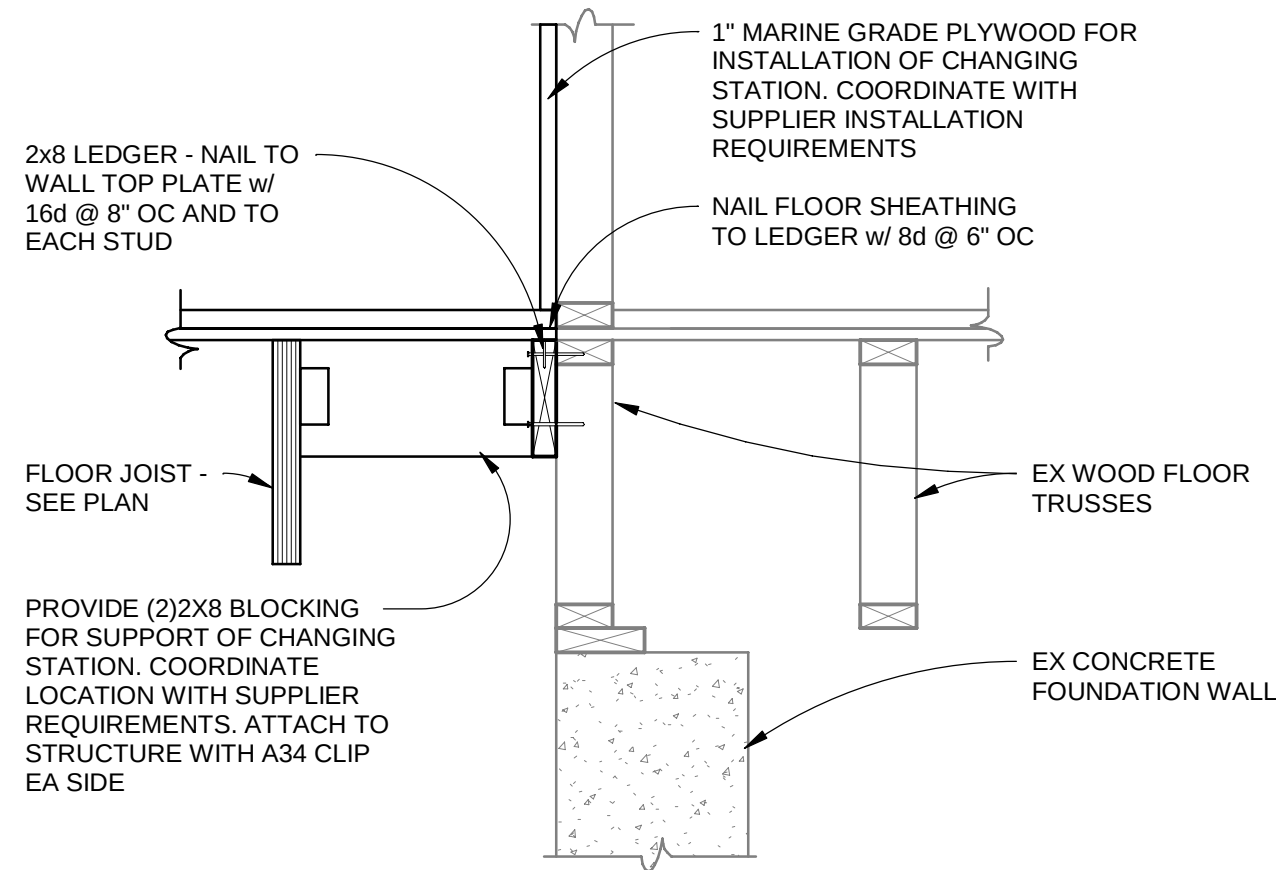


MAIN FLOOR FRAMING
PLAN
SCALE: 1/8" = 1'-0"

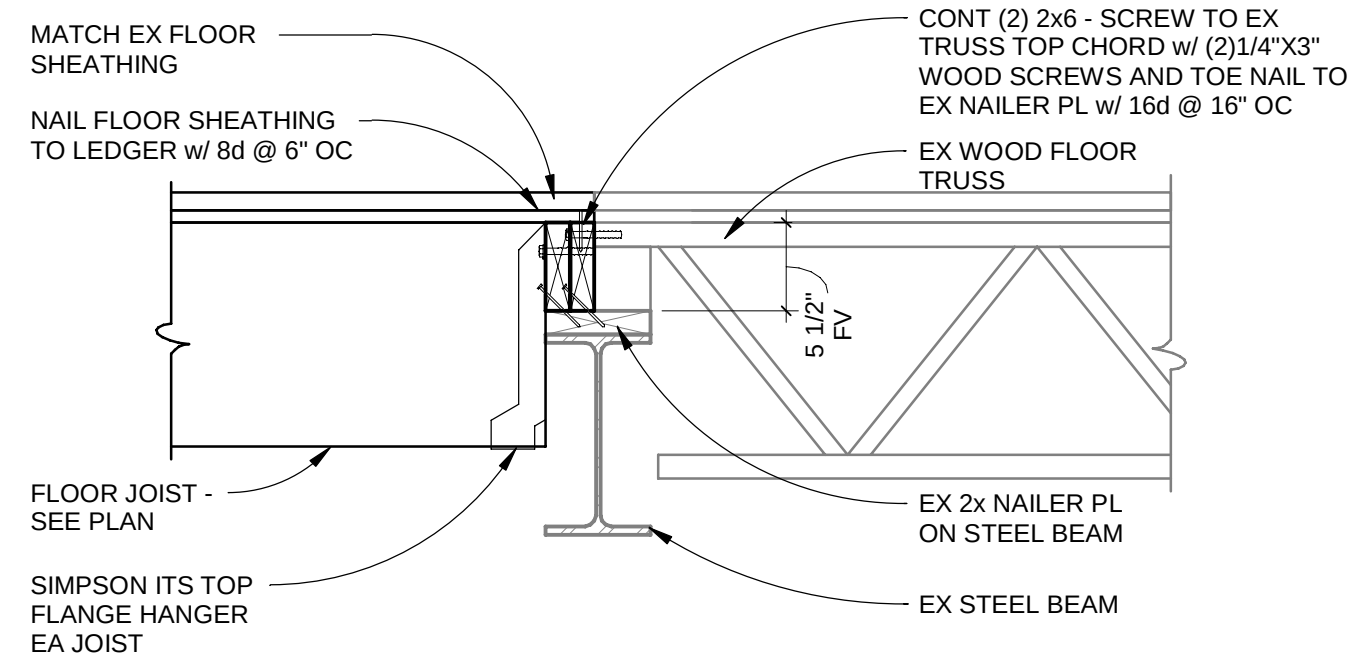




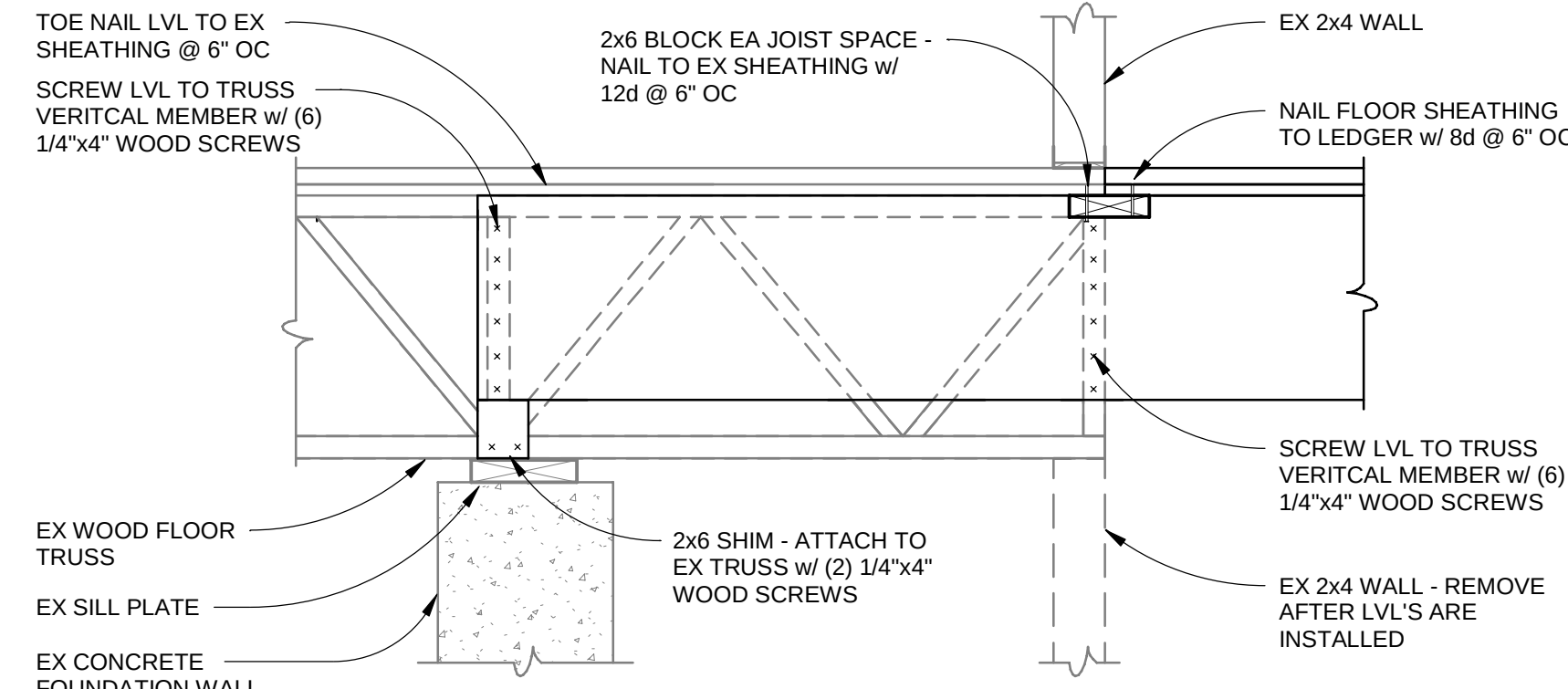
1
S3-1
FLOOR INFILL FRAMING
DETAIL
SCALE: 1" = 1'-0"



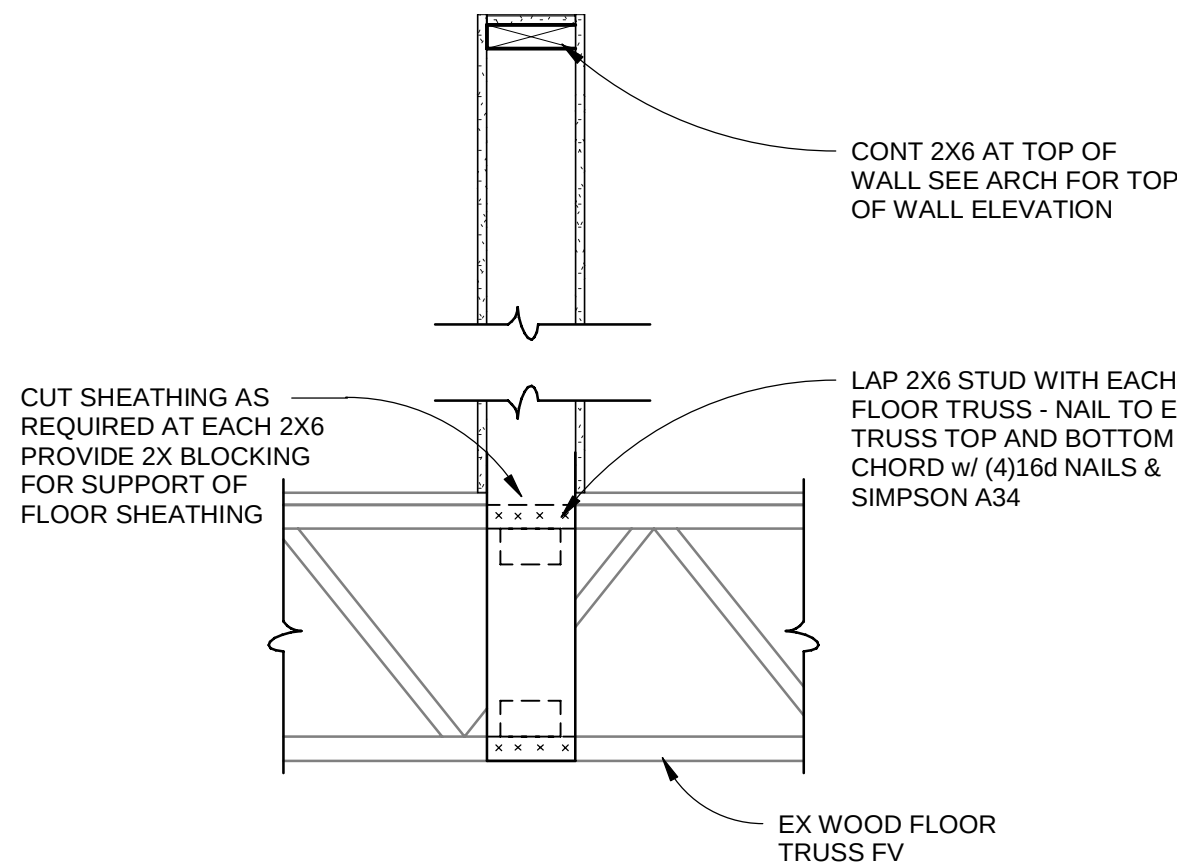
2
S3-1
FLOOR INFILL FRAMING
DETAIL
SCALE: 1" = 1'-0"



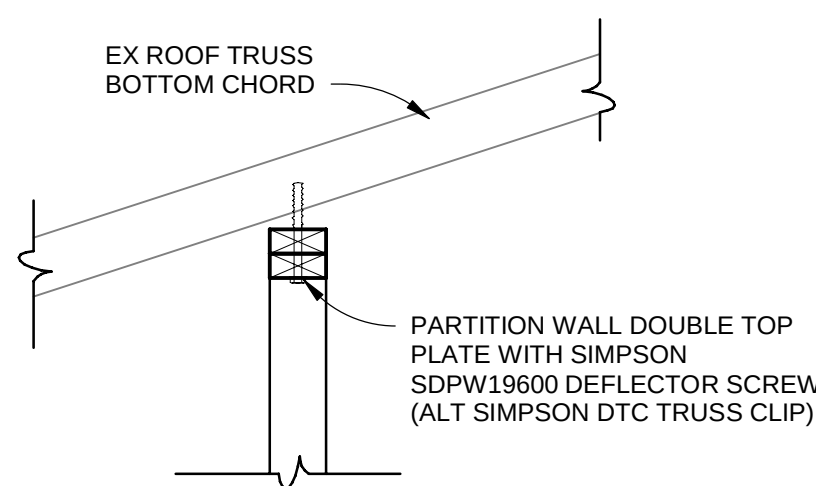
3
S3-1
FLOOR INFILL FRAMING
DETAIL
SCALE: 1" = 1'-0"



4
S3-1
FLOOR INFILL FRAMING
DETAIL
SCALE: 1" = 1'-0"



5
S3-1
FLOOR INFILL FRAMING
DETAIL
SCALE: 1" = 1'-0"



7
S3-1
PARTITION WALL BRACING
DETAIL
SCALE: 1" = 1'-0"



Bid / Permit	13 May 2025
100% CD	03 Apr. 2026
90% CD	20 Mar. 2026
50% CD	6 Mar. 2026
100% DD	20 Feb. 2026
90% DD	13 Feb. 2026
50% DD	30 Jan. 2026
Design	-
PM/PA	AK / AK
Drawn	ZH
IA Project Number	20251010

**OVERALL
DEMOLITION
PLAN**

AD0-1

DEMOLITION GENERAL NOTES

- ALL BIDDING CONTRACTORS SHALL VISIT THE SITE, PRIOR TO SUBMITTING BIDS, IN ORDER TO DETERMINE THE SCOPE OF THE PROJECT.
- DO NOT REMOVE ANY STRUCTURAL FRAMING ITEMS OR BEARING WALLS UNLESS SPECIFICALLY NOTED. SHORE ANY BUILDING ELEMENTS AS REQUIRED TO MAINTAIN STABILITY OF STRUCTURE. CONTRACTOR SHALL NOTIFY ARCHITECT BEFORE EXECUTING THE AFFECTED DEMOLITION WORK.
- SCOPE OF WORK INCLUDES, BUT IS NOT NECESSARILY LIMITED TO, INTERIOR AND EXTERIOR DEMOLITION, SALVAGE, REPAIR AND/OR REMOVAL OF:
 - CEILING SYSTEMS AS SHOWN
 - NON LOAD BEARING WALLS & PARTITIONS
 - STAIR FRAMING AND ASSOCIATED ELEMENTS
 - APPLIED FINISHES
 - DOOR/FRAME ASSEMBLY
 - FINISH FLOORING MATERIALS
 - SOFFIT MODIFICATION FOR NEW VENT
 - EXISTING EXHIBITS
 - MODIFICATION TO (E) MECHANICAL, ELECTRICAL AND PLUMBING SYSTEMS
- ALL DEMOLITION DEBRIS SHALL BE REMOVED IMMEDIATELY FROM SITE AND LEGALLY DISPOSED OF.
- COORDINATE & VERIFY SHUT-OFF OF ALL UTILITIES PRIOR TO DEMOLITION.
- PROTECT FROM DAMAGE ALL BUILDING ELEMENTS THAT ARE TO REMAIN.
- THESE DRAWINGS HAVE BEEN PREPARED UTILIZING EXISTING DRAWINGS FURNISHED BY OWNER & ARCHITECT'S FIELD NOTES. DISCREPANCIES BETWEEN THESE DRAWINGS & ACTUAL FIELD CONDITIONS SHALL BE NOTED IMMEDIATELY & BROUGHT TO THE ATTENTION OF THE ARCHITECT FOR CLARIFICATION.
- LEAVE ENTIRE FACILITY BROOM CLEAN AT COMPLETION OF DEMOLITION WORK.
- COORDINATE & REVIEW ALL DRAWINGS FOR DEMOLITION REQUIRED FOR ALL TRADES, EQUIPMENT & INCIDENTAL ITEMS THAT MAY NOT BE SHOWN ON THESE DRAWINGS, & PROVIDE SUCH DEMOLITION WHEN REQUIRED.
- PATCH ALL ABANDONED FLOOR, ROOF & WALL PENETRATIONS W/ MATERIALS TO MATCH ADJACENT CONSTRUCTION.
- CONTRACTOR TO PATCH & REPAIR ALL REMAINING FLOORS & WALLS OPENED OR DAMAGED DURING DEMOLITION PROCESS TO A LEVEL ACCEPTABLE TO RECEIVE NEW FINISHES. LEVEL OF ACCEPTANCE WILL BE AS DETERMINED BY ARCHITECT.
- CONTRACTOR MAY NOT NEGOTIATE W/ BUILDING OWNER FOR ANY EXISTING FIXTURES THAT ARE TO BE REMOVED. ALL ITEMS IN DEMOLITION AREA TO BE DISPOSED OF IN AN APPROVED LAND FILL AND MAY NOT BE RE-SOLD.
- 'EXISTING FINISHES' INCLUDES ALL FLOOR & WALL COVERINGS, UNDERLAYMENT, PADDING, FURNISHING ETC., WHICH HAS BEEN APPLIED OVER ANY FORM OF STRUCTURAL &/OR ARCHITECTURAL SUBSTRATE.
- ALL DIMENSIONED REMOVALS ARE FOR BIDDING PURPOSES ONLY. CONTRACTOR SHALL COORDINATE REQUIRED DIMENSIONS W/ OTHER TRADES & CONTRACT DOCUMENTS.
- CONTRACTOR SHALL CAREFULLY REMOVE, PROTECT & DELIVER TO DESIGNATED STORAGE AREA THOSE ITEMS OR OTHER MATERIAL SCHEDULED BY THE OWNER FOR REUSE AT A LATER DATE.
- MODIFY EXIST. PLUMBING, MECHANICAL, & ELECTRICAL AS REQ'D FOR NEW LAYOUT.
- REMOVE ALL WALLS & PARTITIONS SHOWN DASHED (INCLUDING DOORS, FRAMES & FLOORING).
- PREP EXISTING FLOOR TO RECEIVE NEW FINISHES.
- ALL MEANS OF EGRESS ARE TO REMAIN UNBLOCKED DURING DEMOLITION.

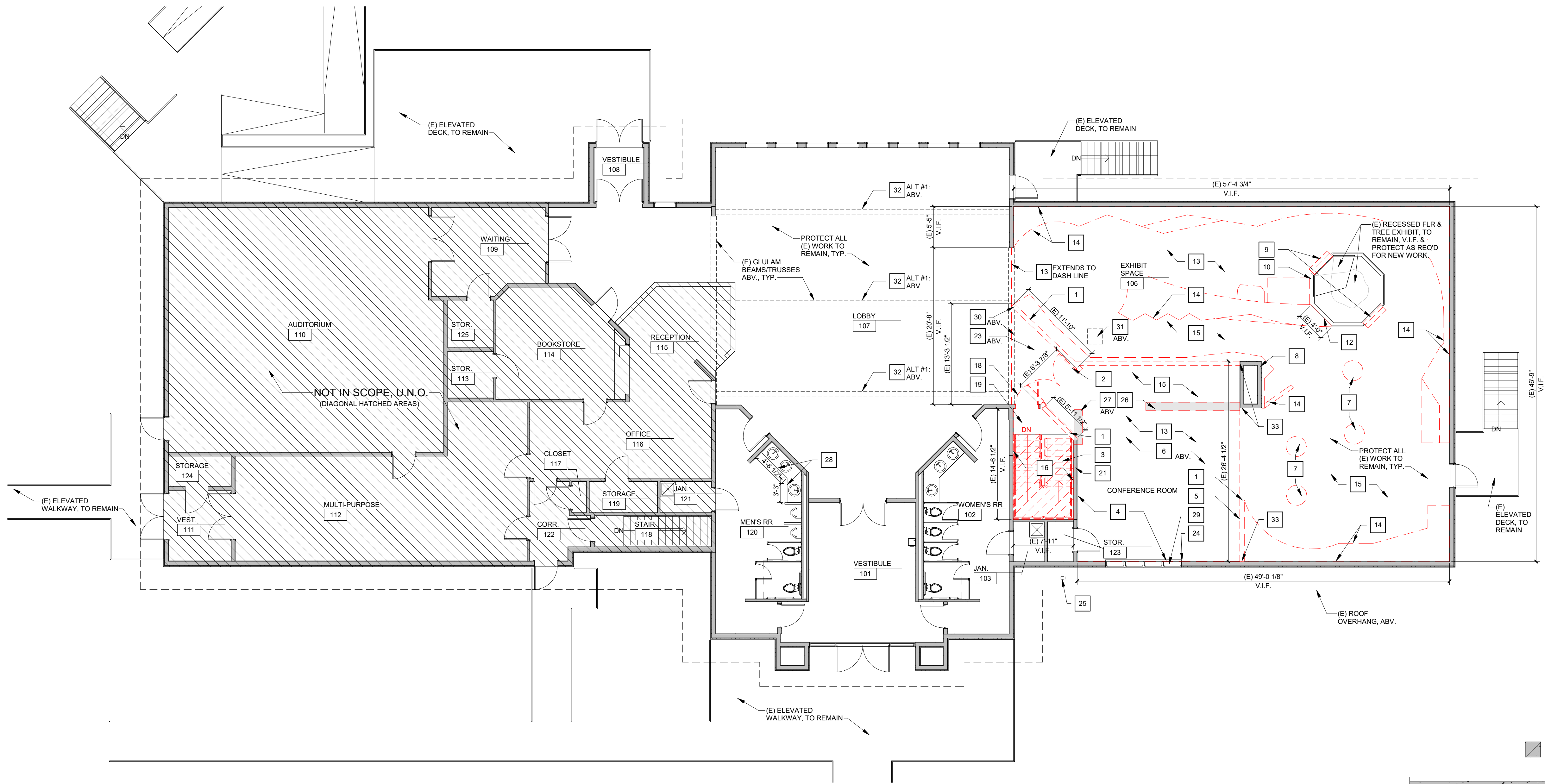
DEMOLITION LEGEND

- EXISTING TO BE REMOVED ■ EXISTING TO REMAIN ▨ NO SCOPE THIS AREA

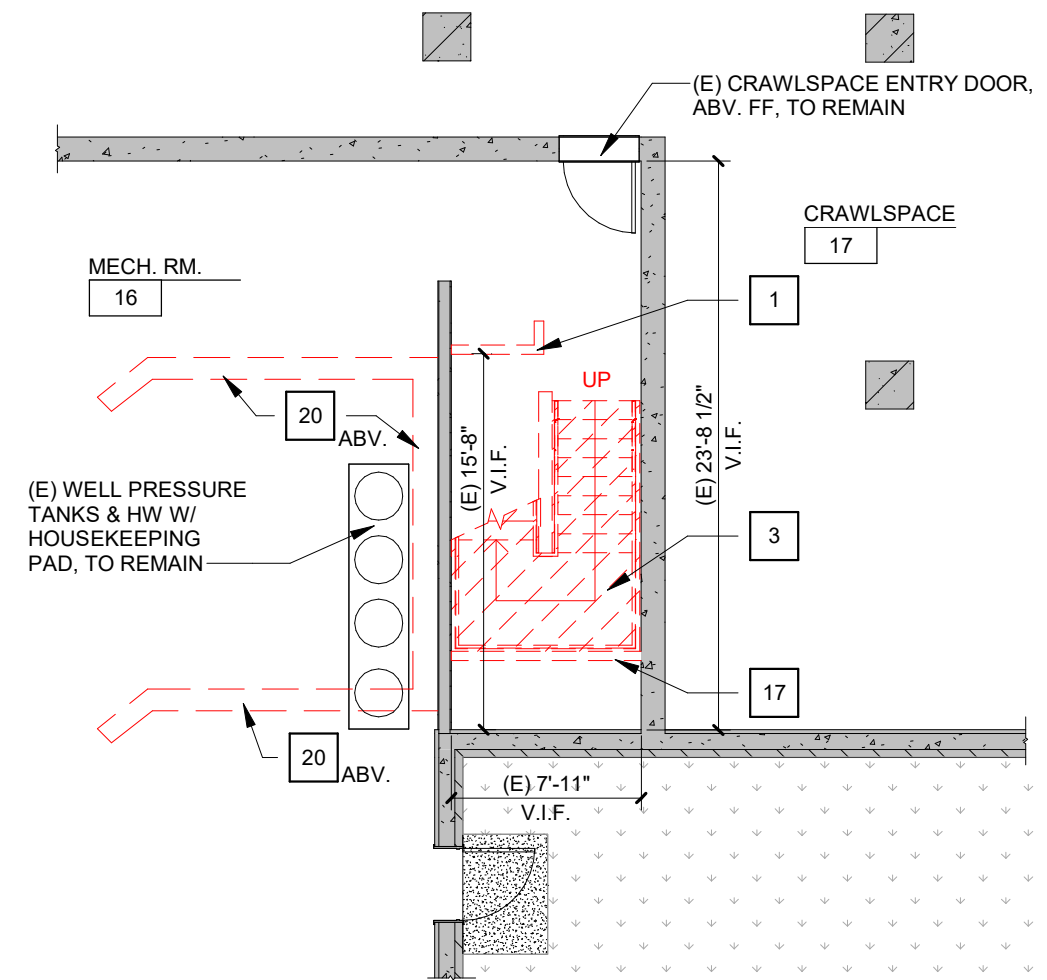
DEMOLITION KEY NOTES

- REMOVE EXISTING WALL.
- REMOVE EXISTING DOOR AND FRAME.
- REMOVE EXISTING STAIR STRINGERS/FRAMING, STAIR TREAD & RISER FINISHES, WALL AND TREAD BASE, MID-LANDING FRAMING, HANDRAILS, AND PARTIAL HEIGHT WALL W/ WOOD CAP. SEE STRUCT. FOR FLOOR FRAMING TO REMAIN AND SEQUENCING.
- REMOVE EXISTING CHAIR RAIL, REPAIR WALL AS REQ'D FOR NEW FINISH.
- SALVAGE (E) WALL BASE AT WALLS TO BE REMOVED. TO BE REINSTALLED AT NEW LOCATIONS. WALL BASE AT WALLS TO REMAIN WILL REMAIN.
- REMOVE ACT CEILING TILES AND GRID (C1). SALVAGE UNCLUT TILES TO OWNER. REPAIR & PREP EXISTING GYP. BOARD CEILING AT BOTTOM OF TRUSSES (C2) ABOVE AND NEWLY EXPOSED UPPER WALLS FOR NEW FINISH.
- SALVAGE (E) TREE EXHIBIT ELEMENTS TO OWNER, TYP. (4).
- (E) MECHANICAL CHASE TO REMAIN. PREP AND REPAIR DRYWALL WHERE ADJOINING WALLS REMOVED.
- REMOVE (E) DISPLAY CASEWORK, TYP. (2). ADJACENT RAILING TO REMAIN. PROTECT RAILING AS REQ'D FOR CASEWORK REMOVAL.
- (E) RAILING TO REMAIN, INCLUDING WOOD BASE TRIM, CLEAR INFILL PANEL AND UPPER WOOD GUARDRAIL. DETACH FROM ADJOINING EXHIBIT WALL AND PROTECT AS REQ'D DURING DEMO. PREP WOOD FOR REFINISHING.
- NOT USED.
- CAREFULLY DETACH (E) EXHIBIT PARTIAL HT WALL (TO BE DEMO'D) FROM (E) RAILING & TRIM (TO REMAIN). SHORE RAILING AS REQ'D UNTIL INSTALL OF NEW SECTION.
- REMOVE (E) CARPET FLOORING IN EXHIBIT AND CONF. RM. PREP WOOD SUBFLOOR BELOW FOR NEW FINISH FLOOR INSTALLATION, SEE INTERIORS.
- REMOVE (E) EXHIBIT RELATED WALLS, PANELS, MATERIALS, CASEWORK AND ASSOCIATED ELEMENTS COMPLETE, U.N.O. REPAIR GYP. BD, WD, WALL BASE AND SUBFLOOR AS REQ'D TO PREP FOR NEW WORK. LOCATIONS SHOWN ARE APPROXIMATE. V.I.F.
- PREP GYP. BD WALLS & CLNG FOR NEW FINISH. REPAIR WHERE DAMAGE FROM ALTERATION OF (E) MECHANICAL, AND ELECTRICAL SYSTEMS WILL REMAIN VISIBLE.
- REMOVE (E) GYP. BD @ INTERIOR F.O. WALL, FIRST FLOOR LEVEL TO SLOPED CLNG.
- REMOVE (E) WALL, SEE STRUCT. FOR SEQUENCING.
- SALVAGE (E) DOOR, CLOSER AND FRAME FOR REINSTALL. PREP DOOR FOR NEW HANDLE & LOCKING HARDWARE.
- (E) FLOOR FRAMG @ UPPER LANDING TO REMAIN, SEE STRUCT.
- REMOVE (E) GYP. BD CLNG. ABOVE. AS REQ'D FOR INSTALL OF NEW HOT & COLD WATER PIPING W/IN JOIST SPACE. SEE MECH. FOR LOCATIONS. PREP CLNG FOR DRYWALL REPAIR & REPAINTING.
- CONFIRM (E) WALL (TO REMAIN) BRACED TO CLNG/ROOF ABOVE. NOTIFY ARCH/ENGINEER IF CONDITION DIFFERS.
- NOT USED.
- REMOVE (E) GYP. BD CEILING, INCLUDING @ SIDE OF GLULAM BEAM. REPAIR & PREP EXISTING GYP. BOARD CEILING AT BOTTOM OF TRUSSES (C2) ABOVE FOR NEW FINISH.
- REMOVE (E) WD WINDOW TRIM @ F.O. WALL. ALL AROUND. SALVAGE FOR REINSTALL. SILL TO REMAIN.
- PREP (E) ROUGH SAWN PLYWOOD SOFFIT FOR NEW SOFFIT VENT, SEE MECH.
- REMOVE FLR SHEATH'G AS REQ'D FOR INSTALL OF NEW PARTIAL HT WALL, STUDS TO LAP W/ (E) FLR TRUSSES PER STRUCT. SEE STRUCT. FOR INFO.
- REMOVE (E) GYP. BD @ CLNG AS REQ'D FOR NEW STRUCT. BRAC'G @ T.O. NEW WALL, SEE STRUCT. FOR INFO.
- REMOVE (E) DAMAGED P. LAM @ FACE OF VANITY APRON, +/- 6" HEIGHT. PREP SUBSTRATE FOR INSTALL OF NEW P. LAM.
- CLEAN & PREP EXTERIOR WINDOW GLAZ'G FOR INSTALL OF NEW WDW FILM, ALL PANES.
- REMOVE GYP. BD @ F.O. (E) GLULAM WHERE WALL REMOVED & AS NEEDED IN AREAS NEWLY EXPOSED OF NEW EXHIBIT OPENG. PREP FOR REFINISHING AS REQ'D IF DAMAGED, TO MATCH (E) FINISH.
- (E) ACCESS PANEL TO SCISSOR TRUSSES, TO REMAIN. PREP FOR REPAINTING.
- ALTERNATE #1, ABV.: WHERE (E) UPLIGHT FIXTURE REMOVED, PREP (E) MTL TRUSS BRACKET FOR RE-PAINTING.
- WHERE (E) WALL REMOVED, INFILL (E) FINISH @ WALL TO REMAIN W/ GYP. BD, FACE OF WALL & INFILL TO ALIGN, MATCH (E) GYP. BD THICKNESS. PREP TO RECEIVE PROPOSED WALL FINISH.

NOTE:
REFER TO STRUCTURAL, PLUMBING, ELECTRICAL, MECHANICAL DRAWINGS FOR ADDITIONAL DEMOLITION REQUIREMENTS.

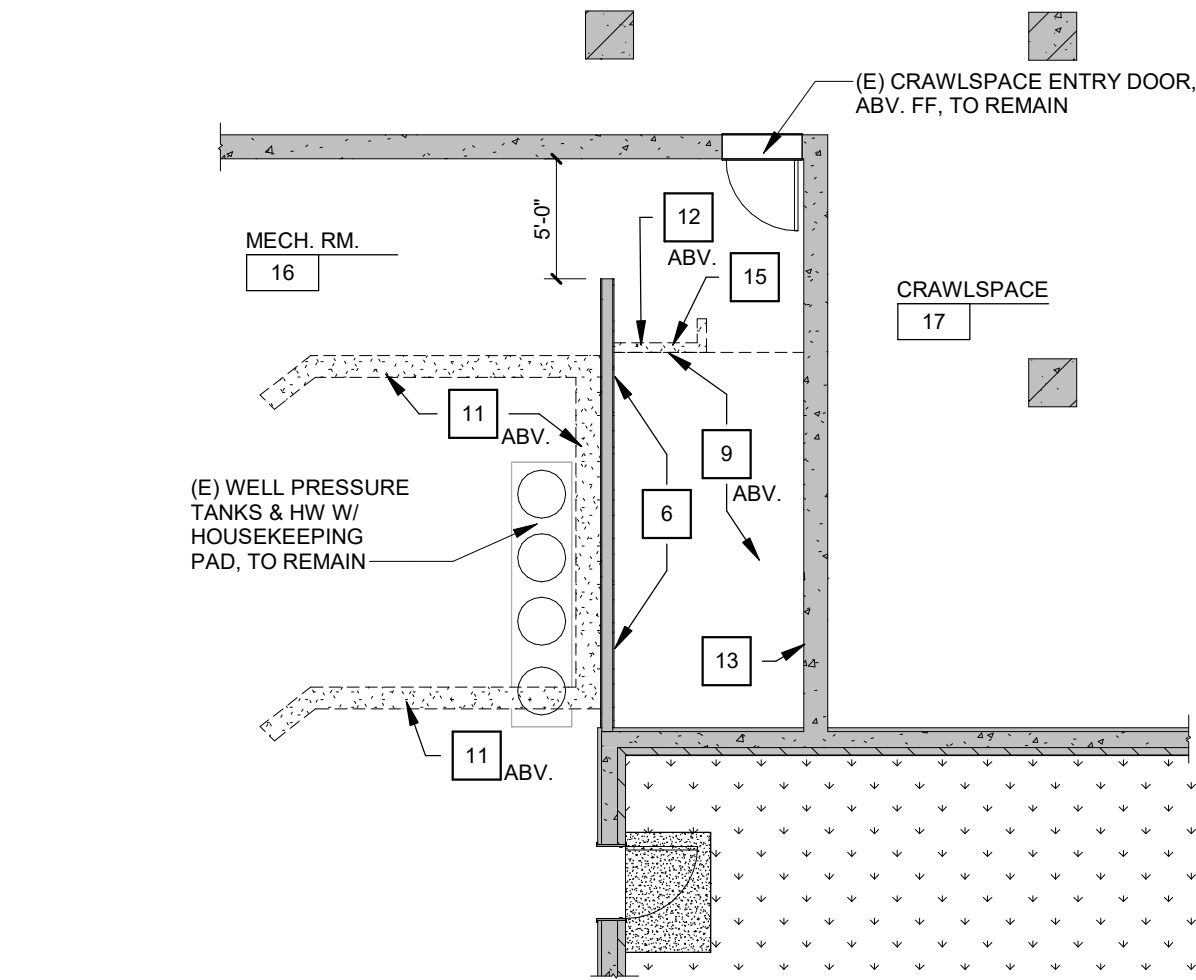


DEMOLITION PLAN - MAIN FLOOR
SCALE: 1/8" = 1'-0"



BASEMENT FLOOR PLAN @ STAIR - DEMO
SCALE: 1/8" = 1'-0"

Diagram illustrating a Flush door type. The door is shown as a rectangle with a vertical line on the left side. Dimension lines indicate "SEE SCH." for both the width and height. Below the diagram, it is labeled "TYPE (F)" and "FLUSH". A note at the bottom states: "NOTE: SEE DOOR SCHEDULE FOR MATERIALS".



1. ALL DIMENSIONS ARE TO FACE OF GYP. BD., MASONRY, CONCRETE, ETC. UNLESS INDICATED OTHERWISE. FINISHES, ROUND OFFS FOR WALLS TO BE TO THE NEAREST 1/4" UNLESS NOTED.
2. ALL GYP. BD. SHALL BE 5/8" TYPE-X AND EXTEND TO FLOOR OR ROOF DECK ABOVE IN ALL AREAS. UNLESS NOTED OTHERWISE.
3. ALL WALLS & PARTITIONS SHALL EXTEND THING TO THE UNDERFACE OF CONSTRUCTION JOINTS. WALLS SHALL BE INSULATED AS TO ALLOW APPROPRIATE DEFLECTION AMOUNT (1/2" MINIMUM) IN STRUCTURE.
4. PROVIDE CEMENT TILE BACKER IN THICKNESS INDICATED ON THE STUD WALLS DESIGNATED TO RECEIVE CERAMIC TILE. PROVIDE MOULD & WATER RESISTANT (W-R) GYPSUM BOARD ON ALL WET AREAS AND ALL OTHER AREAS.
5. UNLESS SPECIFICALLY NOTED OTHERWISE, THE WALL LEGEND REFERS TO ALL INTERIOR WALL CONSTRUCTION INSTALLED INDEPENDENTLY OF THE EXTERIOR BUILDING SHELL.
6. ALL CONCEALED SPACES WITHIN WALLS, COLUMN ENCLOSURES, BULKHEADS & SIMILAR AREAS SHALL BE COMPLETED WITH INSULATION. ARE TO BE FIRE STOPPED AT THE CEILING/FLOOR LEVELS.
7. LOCATE ALL DOORS WITH THE EXCEPTION OF STORAGE ROOM DOORS 1'-6" FROM THE LATCH SIDE OF THE DOOR OPENING TO THE NEAREST PROJECTION UNLESS OTHERWISE NOTED AT THE CONTRACTOR'S RISK.
8. SEE INTERIOR ELEVATIONS & FINISH PLANS FOR WALL FINISHES.
9. EXTEND ALL TOILET & RESTROOM WALLS TIGHT TO STRUCTURE ABOVE AND ALLOW FOR APPROPRIATE DEFLECTION. ACOUSTICALLY AND/or FIRE RESISTANCE RATED SEAL WALLS TO STRUCTURE SYSTEMS ABOVE, FULL PERIMETER, EACH SIDE.
10. PROVIDE BLOCKS/CHANNELS WITHIN WALLS AT WALL MOUNTED ITEMS INCLUDING BUT NOT LIMITED TO: CLOSET RODS, TOILET ROOM VENTILATORS, MILLWORK, SHELVING, E.E.C.'S. COORDINATE WITH SPECS, FLOOR PLANS, INTERIOR ELEVATIONS & FINISH DRAWINGS.
11. SEE CODE COMPLIANCE DRAWINGS FOR FIRE-RATING REQUIREMENTS.
12. SEE DRAWING A-2 FOR TYPICAL BUILDING SYSTEMS.
13. COORDINATE ALL PLUMBING FIXTURES / ACCESSORIES WITH INTERIOR DESIGN DRAWINGS AND MEP CONTRACTOR'S SCHEDULE.
14. REFER TO INTERIOR DESIGN DRAWINGS FOR INTERIOR DOOR AND WINDOW SCHEDULE.
15. ALL DOOR HARDWARE TO SPECIFIED BY INTERIOR DESIGNER.
16. ALL DOORS TO HAVE FLANGES AS DEFINED BY ADAAG. ACCESSIBILITY GUIDELINES FOR BUILDINGS AND FACILITIES.
17. AT OWNER SUPPLIED, ALLOW SPACE FREE OF ALL THERMOSTATS, SWITCHES, OUTLETS, STORES, ALARMS, ETC.
18. KEEP ALL DEVICES WITHIN 2'-0" OF DOOR FRAME CORNERS TO MAXIMIZE FREE WALL AREA FOR FUTURE WORK.
19. AREAS WITH A CONTINUOUS PLANE OF NEW GYPSUM BOARD (WALLS, CEILINGS, ETC.) GREATER THAN 25' ARE TO RECEIVE A CONTROL JOINT. UNLESS SPECIFICALLY NOTED OTHERWISE. THE BASIS OF DESIGN FOR ALL GYPSUM BOARD CONTROL JOINTS TO BE: 1/4" WALLS, SQUARE GROOVING OR DEPTH OF GYPSUM BOARD WITH FLANGE THAT IS TO RECEIVE TAPES TO BE COORDINATED AT BOTH SIDES OF REVEAL. CONTROL JOINTS ARE TO BE INSTALLED AT THE CORNERS OF WALLS AND AT THE MOST ADVANTAGEOUS POSSIBLE. FINAL LOCATIONS OF ALL CONTROL JOINTS ARE TO BE COMBINED WITH ARCHITECT. PRIOR TO INSTALLATION.
20. FOR ALL WALLS THAT EXTEND UP TO THE ROOF, PROVIDE A DEEP-LEG DEFLECTION TRACK AT THE TOP OF THE WALLS THAT WILL ALLOW FOR 2" OF DEFLECTION IN THE ROOF STRUCTURE.

1. ALL DOORS & HARDWARE TO BE IN COMPLIANCE WITH A.D.A. AND BARRIER FREE CODES AND REQUIREMENTS.
2. VERIFY HARDWARE LOCK FUNCTIONS WITH OWNER PRIOR TO ORDER.
3. PROVIDE BLOCKING BEHIND ALL WALL-MOUNTED HARDWARE.
4. SEE SPECIFICATIONS FOR HARDWARE SCHEDULE.
5. REFER TO CODE COMPLIANCE INFORMATION FOR ADDITIONAL DOOR OPENING REQUIREMENTS (INCLUDING OPENING FORCE).
6. ALL EGRESS AND EGRESS ACCESS DOORS MUST MAINTAIN MINIMUM 32 INCH CLEAR WIDTH. REFER TO CODE REVIEW FOR ADDITIONAL INFORMATION.
7. ALL INTERIOR DOORS THAT HAVE CLOSERS AND ACCESS PUBLIC SPACES, OFFICES AND OTHER OCCUPIED SPACES ARE TO BE ADJUSTED PRIOR TO BUILDING TURN-OVER SO THAT THEY MEET DOOR AND CLOSER REQUIREMENTS AND BARRIER FREE REQUIREMENTS.
8. FIELD VERIFY CONFIGURATIONS AND FRAMES AT EXISTING DOORS TO BE REUSED PRIOR TO SCHEDULING IN SHOP DRAWINGS SUBMITTALS.

	NEW WALL CONSTRUCTION
	EXISTING WALL CONSTRUCTION TO REMAIN
	NO SCOPE THIS AREA
	WALL TYPE: SEE "A2" SERIES DRAWING SHEETS FOR DETAILS. W = WALL

1	(E) GLUELAM BAY. ADV. OPENING TO REMAIN. GLUELAM TO BE NEWLY EXPOSED FULL LENGTH TO CONCEAL NEW WOOD JOINTS AND PIPES REQUIRED FOR CONTINUOUS APPEARANCE. TO MATCH (E) FINISH. PROVIDE NEW STAIN TO REM. BAY @ G. OVP. BD EDGE.
2	PREP. GYP. BD. BY RETURN W/ REPAIR. CORNER BAY ALL AROUND (E) DOOR FRAME, TO CONCEAL NEW WOOD @ G. OVP. BD.
3	PREP. SAND, STAIN AND POLYURETHANE (E) RAILING TO REMAIN. INCLUDING WOOD BASE TRIM AND UPPER WOOD GUARDRAIL. COLOR TO MATCH (E). PROTECT INFL PANEL AS REQUIRED. PREP ALL ADJACENT AREAS.
4	PROVIDE NEW RAILING TO MATCH (E). INCLUDING UPPER GUARDRAIL AND INFL. PANEL. MODIFY AND/OR REPLACE (E) WOOD BASE STAIN AS REQ'D TO MATCH OTHER SIDES AND EDGES FROM EXISTING INSTALS FROM EXISTING RAIL. ARTISTRY TO REMAIN. PROVIDE SECURE AND CONCEALED ATTACHMENT TO EXISTING HANDRAIL SECTIONS.
5	NEW EXHIBIT CASEWORK. MM. HEIGHT 42" WHERE LOCATED NEXT TO RECESSED FLOOR FABRICATION & INSTALL BY EXHIBIT CONSULTANT.
6	PATCH & REPAIR (E) GYP. BD WHERE WALL REMOVED. REPAIR GYP. BD @ ALCOVE.
7	REINSTALL SALVAGED (E) DOOR, CLOSER AND FRAME FROM THIS OPENING IN NEW CONFIGURATION. TOUGH UP DOOR AS REQ'D AND REPAIR FRAME. FIN. & STAIN CLOSER & FRAMES FROM EXISTING INSTALS FROM EXISTING DOOR CLOSER TO PER SIDE OF DOOR. INSTALL NEW HANDLE & LOCKING HARDWARE.
8	PROVIDE BLOCKING IN WALLS AS REQ'D FOR RESTROOM ACCESSORIES. TYP.
9	NEW CLNG CLG. ABV. FROM DASHED LINE INTO ENTIRE ALCOVE. PREP & PAINT.
10	NEW SPOFFT EXHAUST. SEE MECH. FOR LOCATION. TOUGH UP POINT ALL AROUND NEW OPENING AS REQ'D. MATCH (E) COLOR.
11	REPAIR GYP. BD CLNG ABOVE. WHERE REMOVED FOR PIPING INSTALL. LOCATION SHOWN. PREP. MECH. FOR LOCATIONS. PREP AND REPAIR CEILING THIS AREA. FEATHER PATCH INTO ADJACENT AREAS.
12	REPAIR GYP. BD CLNG ABOVE. WHERE WALL REMOVED. PREP AND REPAIR CEILING THIS AREA. FEATHER PATCH INTO ADJACENT AREAS.
13	REPAIR AND CLEAN FLOORING WALL. WHERE WALL REMOVED. FILL ANY HOLES.
14	REINSTALL (E) WOOD TRIM ALL AROUND @ NEW G. O. WALL. PROVIDE WD. JAMB LINE INSTALLATION TO CONCEAL NEW JAMB DETAIL; SPECIES & STAIN TO MATCH (E). SILL TO REMAIN.
15	PATCH & REPAIR FLOOR WHERE WALL REMOVED. FILL ANY (E) FASTENER PENETRATIONS.
16	INFL. & REPAIR RFL SHEATHING WHERE REMOVED. PARTIAL HT. WALL INSTALLATION. SEE STRUCT. FOR INFO.
17	PATCH, REPAIR & PAINT GYP. BD TERMINATE WHERE REMOVED FOR (E) W. WALL BRACG. SEE STRUCT. FOR INFO.
18	PLYWOOD & GYP. BD FURRING TO TERMINATE BEHIND TRUSS EXHIBIT ELEMENT. COORDINATE FINAL LAM. @ EXHIBIT CONSULTANT DWGS.
19	INSTALL NEW P. LAM @ FACE OF VANITY AREA. SEE INTERIORS.
20	INSTALL EXTERIOR WOOD FILM. ALL P. LAM. COORDINATE W/ DNR FOR IMAGERY TO BE INTEGRAL TO FILM.
21	(E) ACCESS PANEL. TO SOCCOR TRUSSES. REPAIR TO MATCH CLNG.
22	RFL INFL. @ DASHED LINE & CONTINUING SOUTH IN NEW RFL. SEE STRUCT. FOR INFO. & CROSS SECTION. DRILL 1/2" DIA. HOLES @ 16" ON CENTER. SHEATHING 3/4" AFF. RATED FLOOR SHEATHING 1/2" PLYWOOD FLOOR SHEATHING (E) MTL. TRUSS BRACG. NEW RFL SHEATHING TO MATCH & BE FLUSH W/ (E).
23	ALTERNATE #1. ADV. REPAIR (E) MTL. TRUSS BRACG. MATCH (E) COLOR.
24	COORDINATE LOCATION OF NEW CLNG LIGHTS/FIXTURES IN EXHIBIT SPACE W/ ARCHITECT. SEE ELEC. FOR ADDITIONAL INFO.

NOTE:
 REFER TO STRUCTURAL, PLUMBING, ELECTRICAL, MECHANICAL DRAWINGS FOR ADDITIONAL REQUIREMENTS.

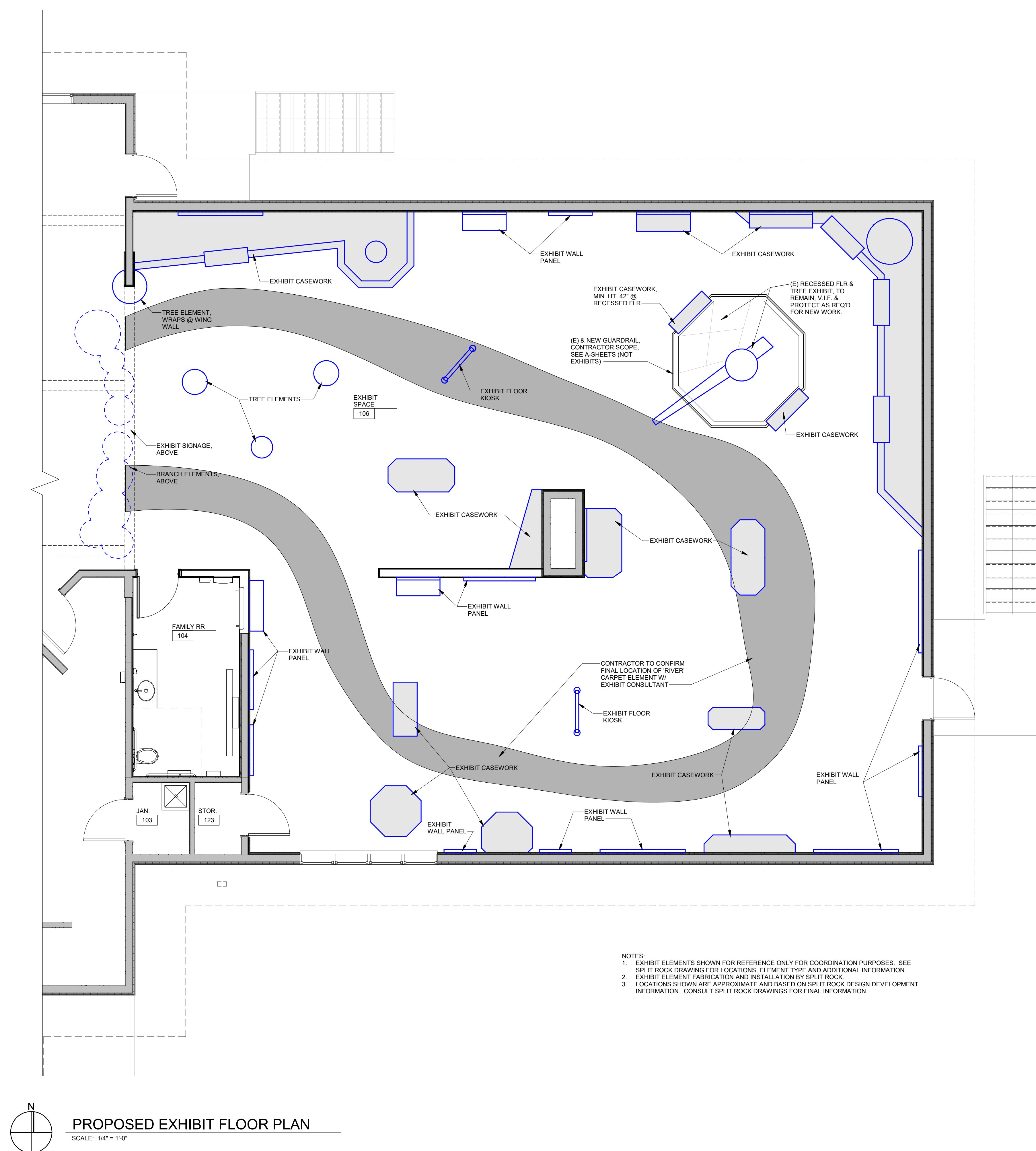
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90% CD	20 Mar. 2026
50% CD	6 Mar. 2026
100% DD	20 Feb. 2026
90% DD	13 Feb. 2026
50% DD	30 Jan. 2026
Design	-
PM/PA	AK / AK
Drawn	ZH
IA Project Number	20251010

OVERALL FLOOR PLAN

A0-1

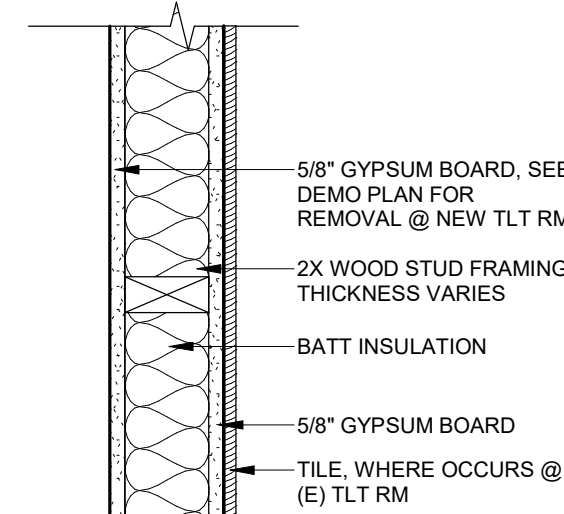
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Drawn	ZH
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A0-2



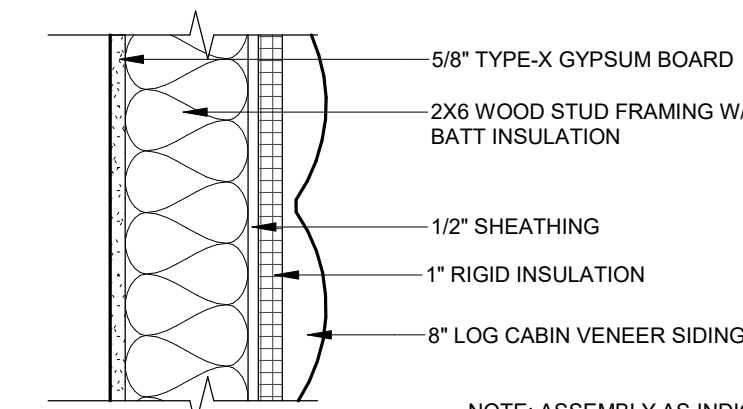
EXISTING WALL TYPES

FOR REFERENCE ONLY. CONTRACTOR TO V.I.F. AS REQD FOR NEW WORK.



NOTE: ASSEMBLY AS INDICATED ON RECORD DRAWINGS. V.I.F. AS REQD FOR NEW WORK.

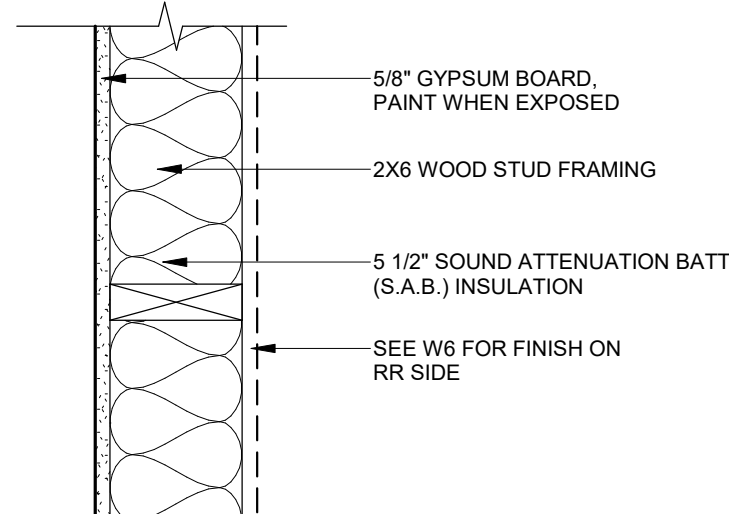
W1 TYPE DETAIL - (E) WALL TYPE W1
SCALE: 1 1/2" = 1'-0"



NOTE: ASSEMBLY AS INDICATED ON RECORD DRAWINGS. V.I.F. AS REQD FOR NEW WORK.

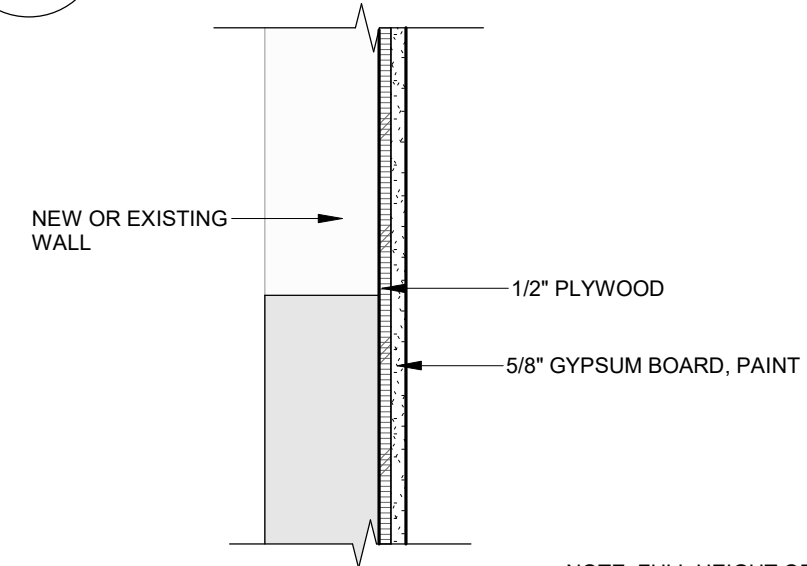
W2 TYPE DETAIL - (E) WALL TYPE W2
FE1-1 SCALE: 1 1/2" = 1'-0"

NEW CONSTRUCTION WALL TYPES



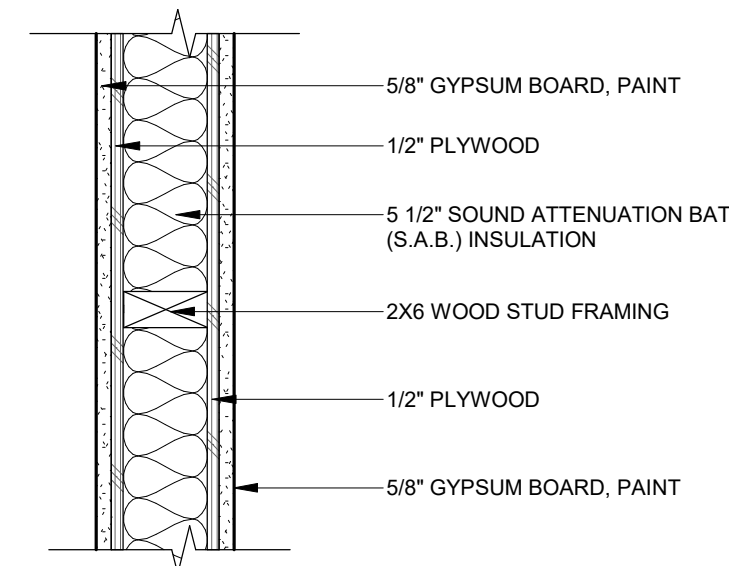
NOTE: FULL HEIGHT WALL TO STRUCTURE ABV.

W3 TYPE DETAIL - WALL TYPE W3
SCALE: 1 1/2" = 1'-0"

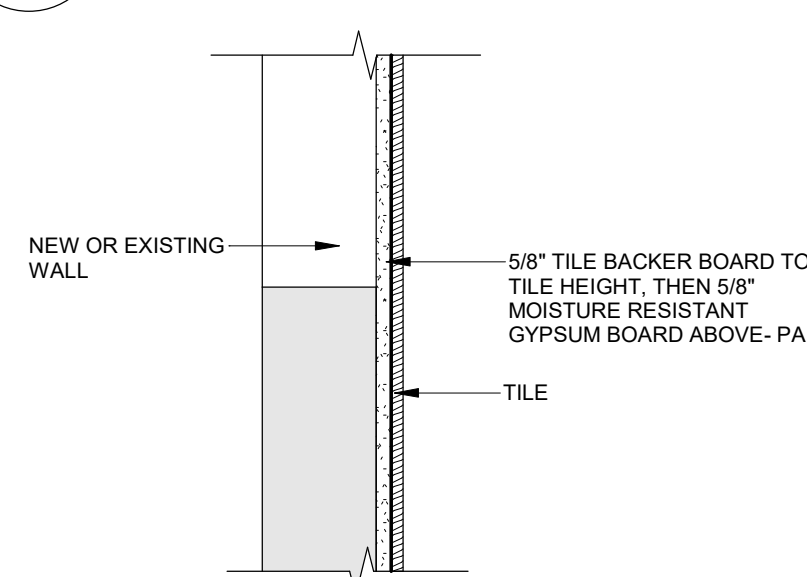


NOTE: FULL HEIGHT OF (E) WALL

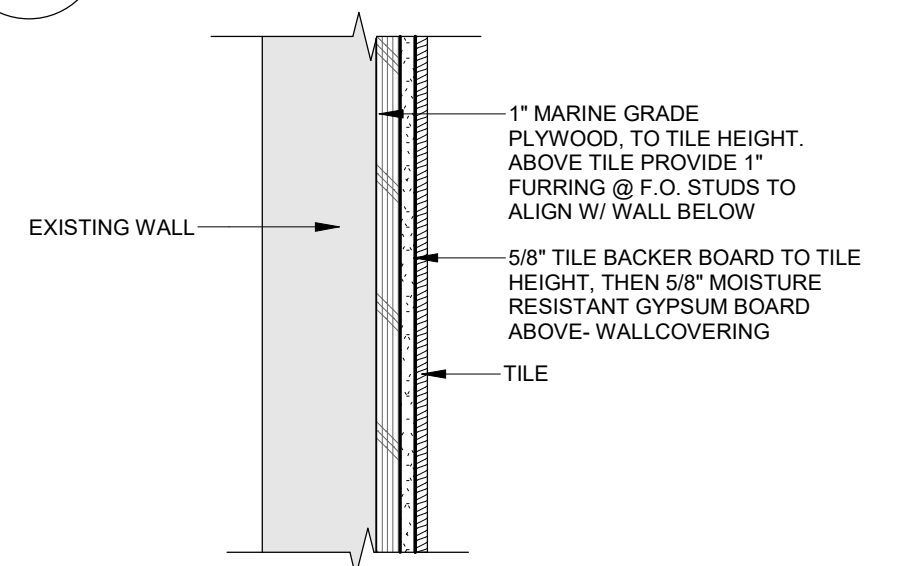
W4 TYPE DETAIL - WALL TYPE W4
SCALE: 1 1/2" = 1'-0"



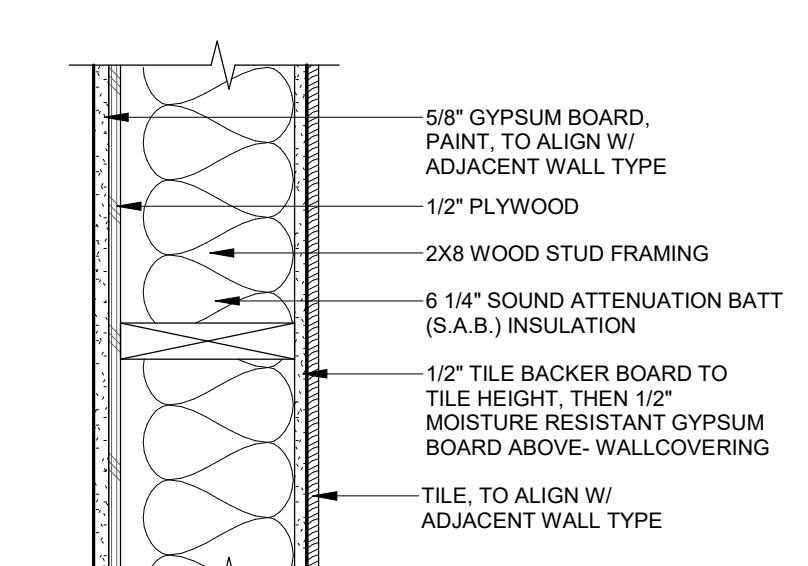
W5 TYPE DETAIL - WALL TYPE W5
SCALE: 1 1/2" = 1'-0"



W6 TYPE DETAIL - WALL TYPE W6
SCALE: 1 1/2" = 1'-0"



W7 TYPE DETAIL - WALL W7
SCALE: 1 1/2" = 1'-0"

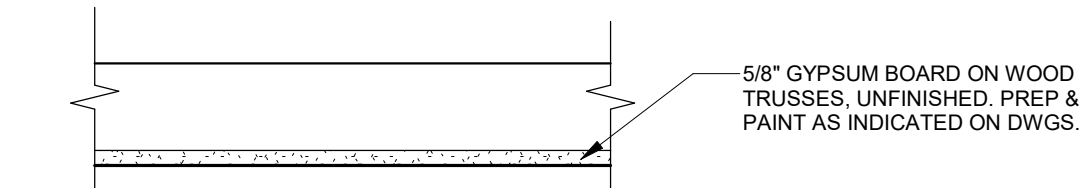


W8 TYPE DETAIL - WALL TYPE W8
SCALE: 1 1/2" = 1'-0"

EXISTING CEILING TYPES

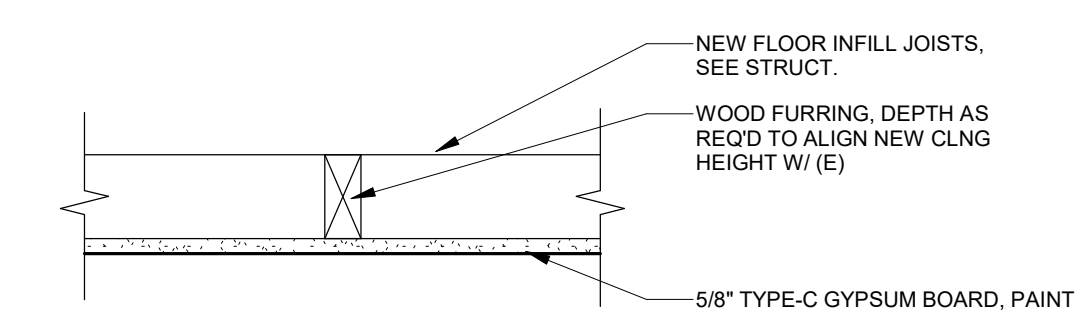


C1 TYPE DETAIL - CEILING 1
SCALE: 1 1/2" = 1'-0"

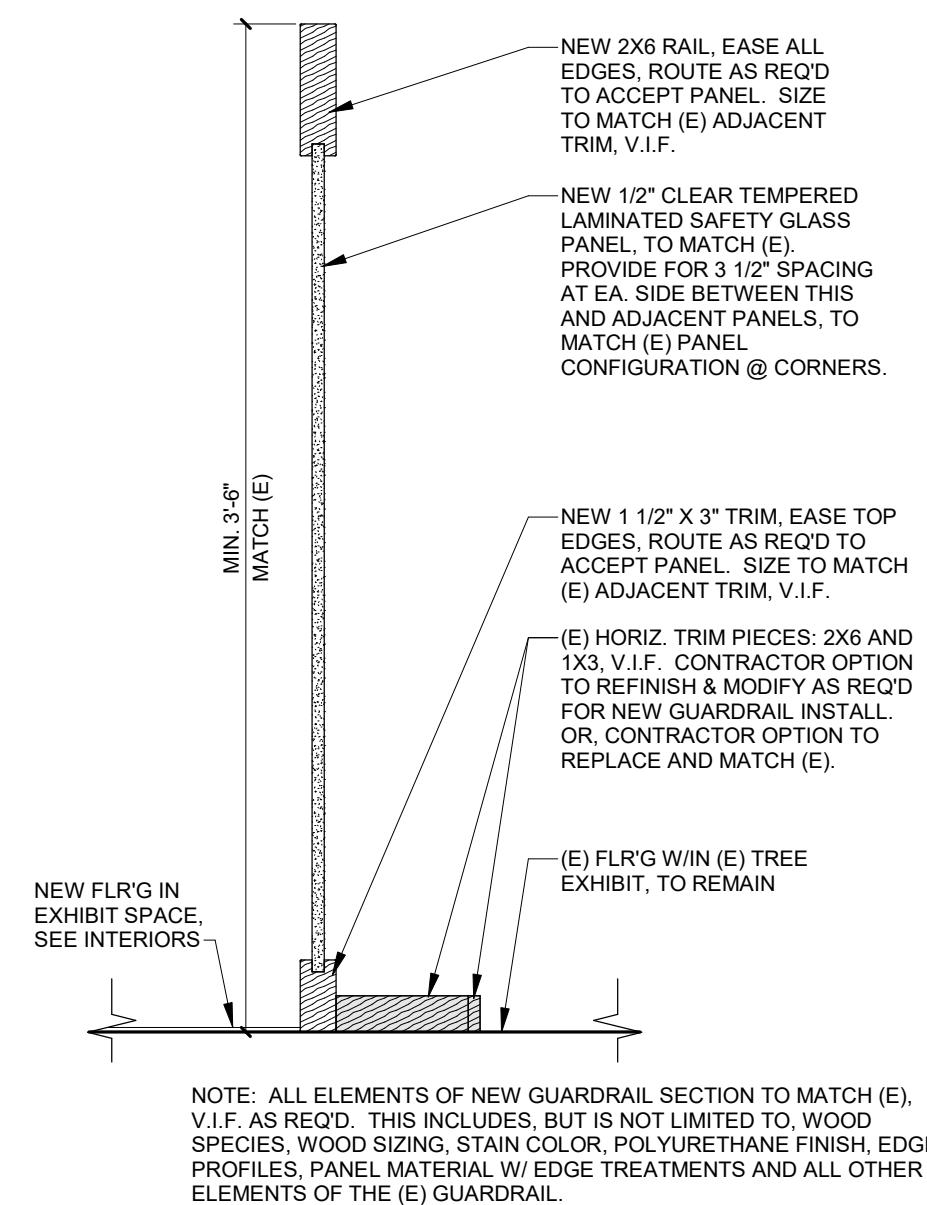


C2 TYPE DETAIL - CEILING C2
SCALE: 1 1/2" = 1'-0"

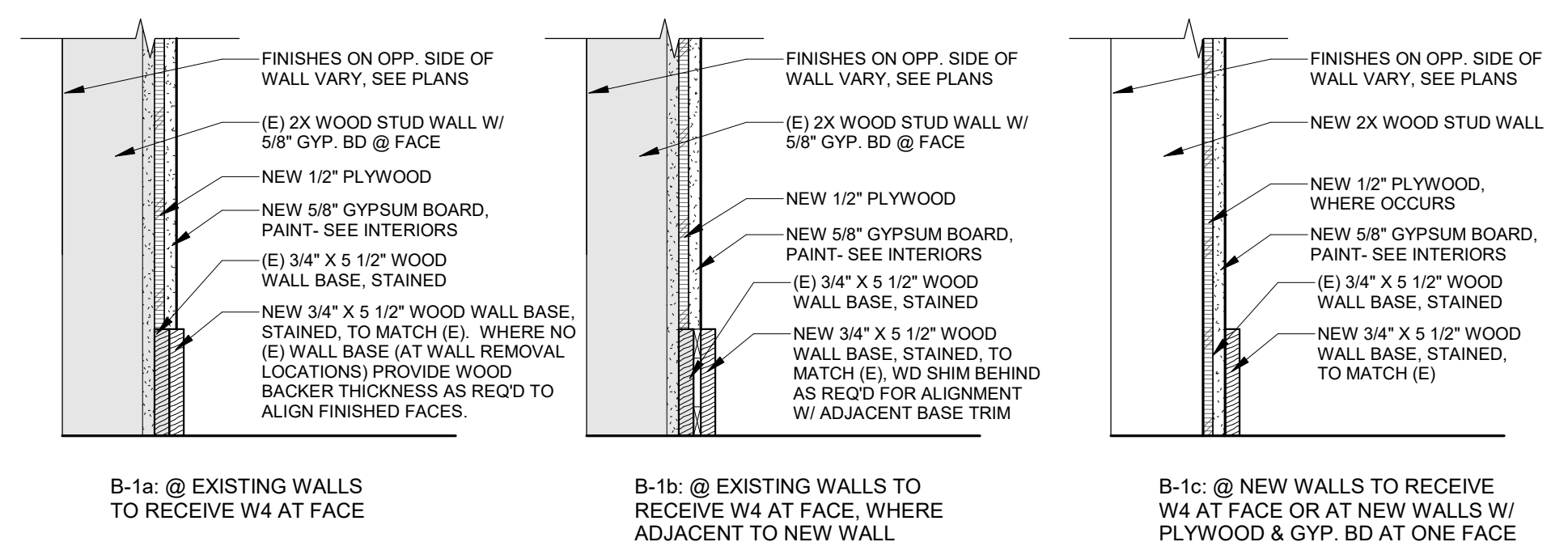
NEW CONSTRUCTION CEILING TYPES



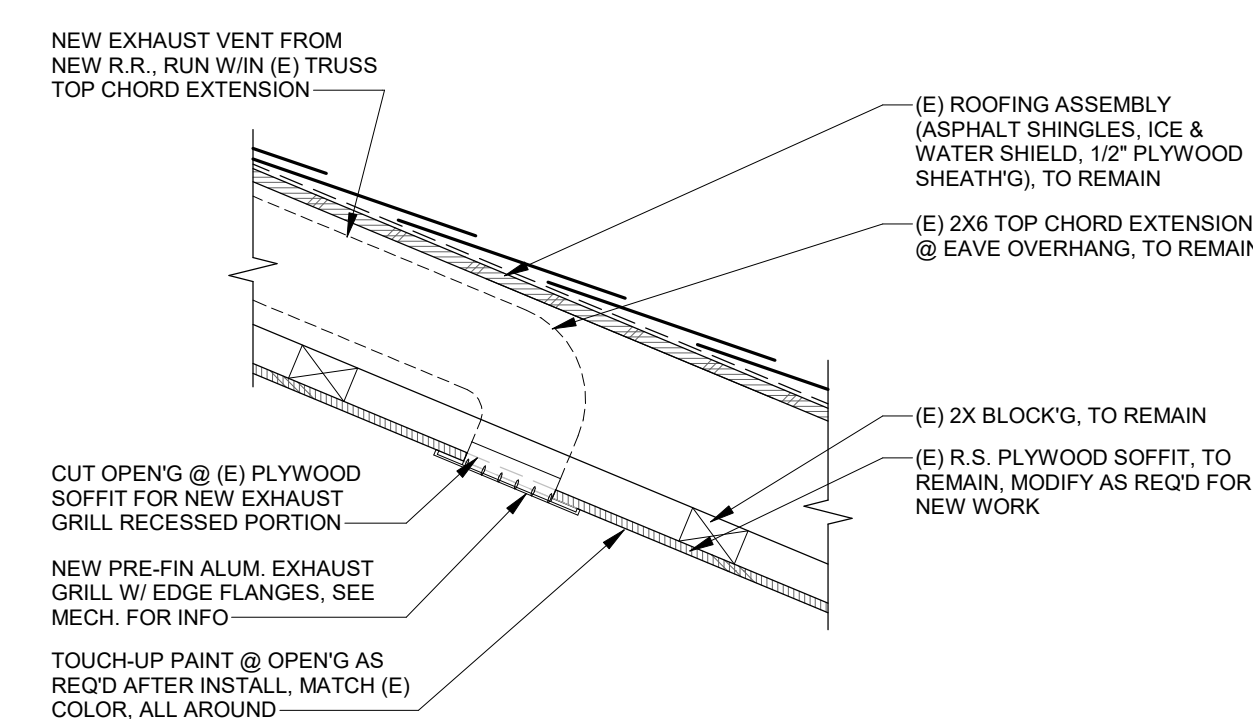
C3 TYPE DETAIL - CEILING C3
SCALE: 1 1/2" = 1'-0"



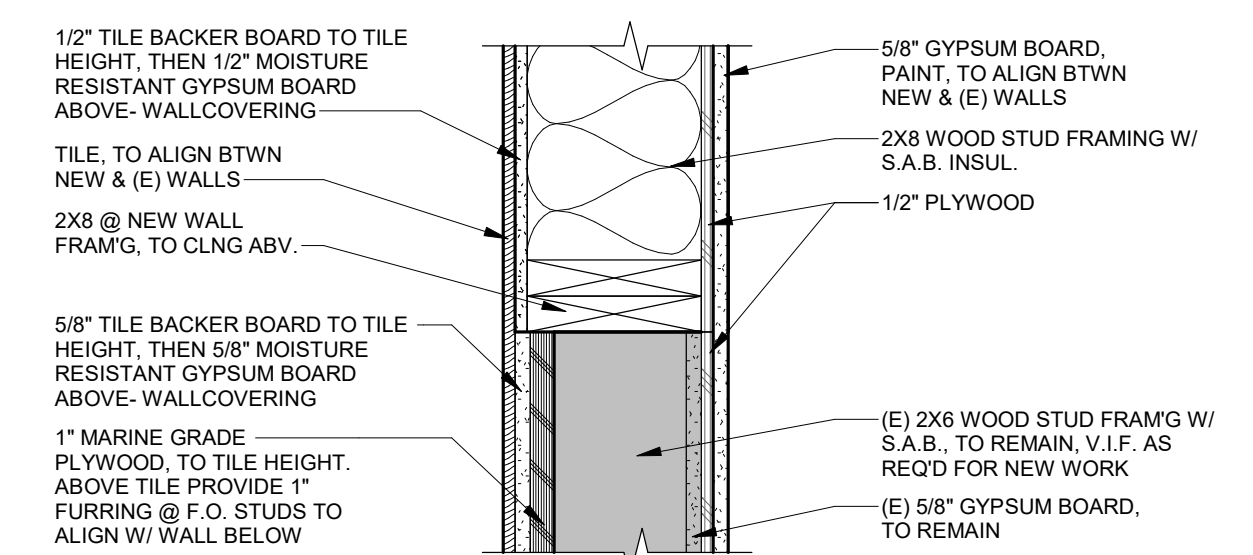
1 TYPE DETAIL - HANDRAIL 1
AD-1 SCALE: 1 1/2" = 1'-0"



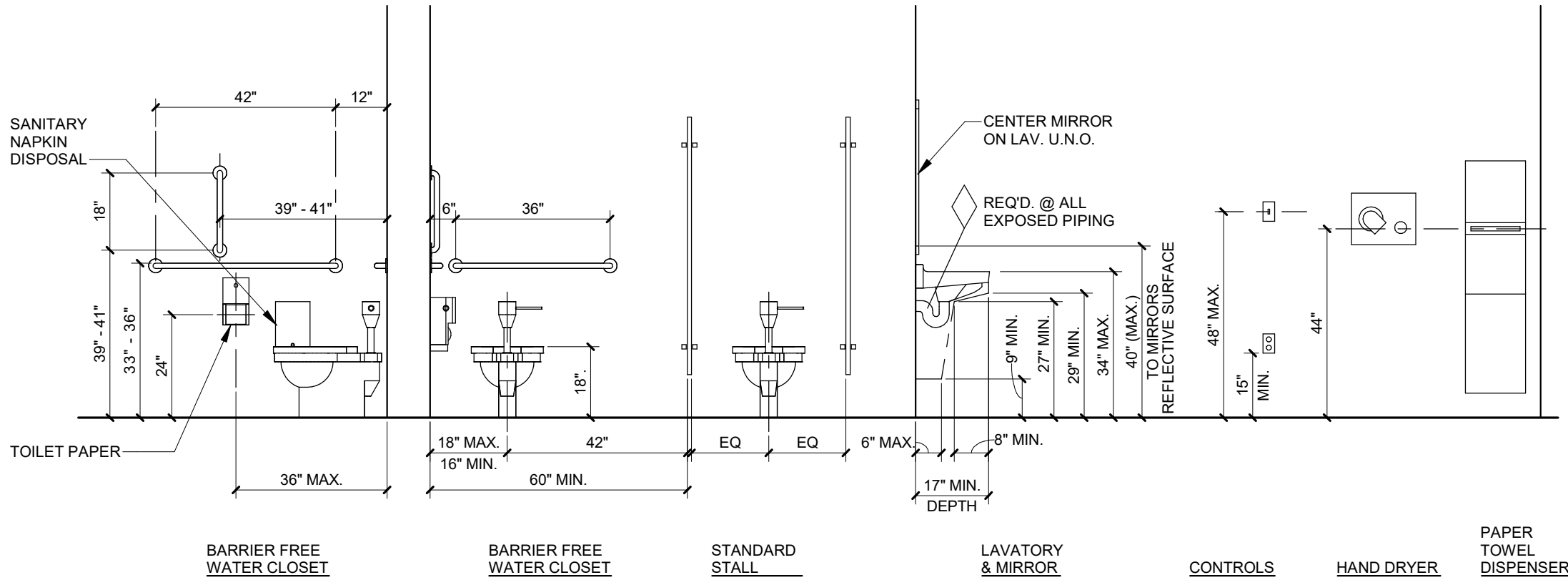
2 TYPE DETAIL - WALL BASE
SCALE: 1 1/2" = 1'-0"



3 TYPE DETAIL - SOFFIT VENT
AD-1 SCALE: 1 1/2" = 1'-0"

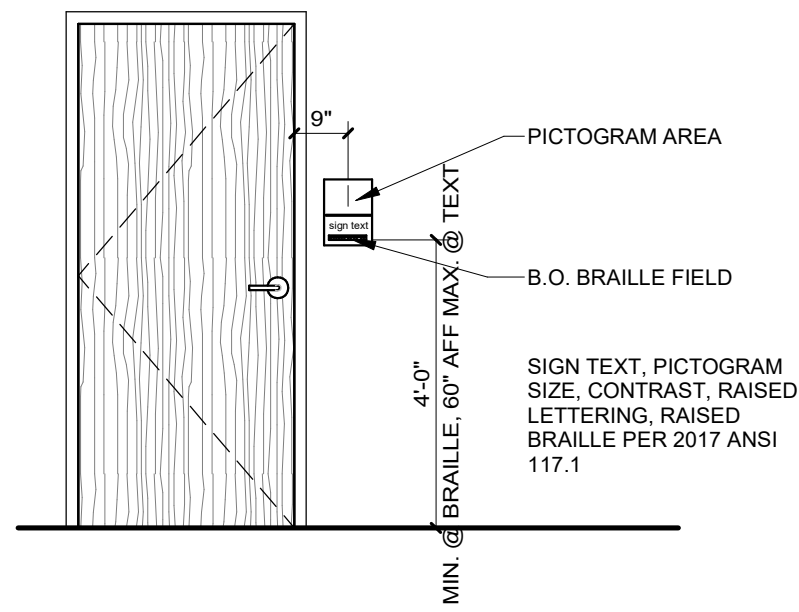


4 PLAN DETAIL - FAMILY RESTROOM
AT-1 SCALE: 1 1/2" = 1'-0"



TYPICAL FIXTURE MOUNTING DIMENSIONS
SCALE: 3/8" = 1'-0"

NOTE:
ALL FIXTURE MOUNTING DIMENSIONS
ARE TO COMPLY WITH ANSI A117.1



SIGN LOCATION

13 ADA SIGN LOCATION

SCALE: 3/8" = 1'-0"

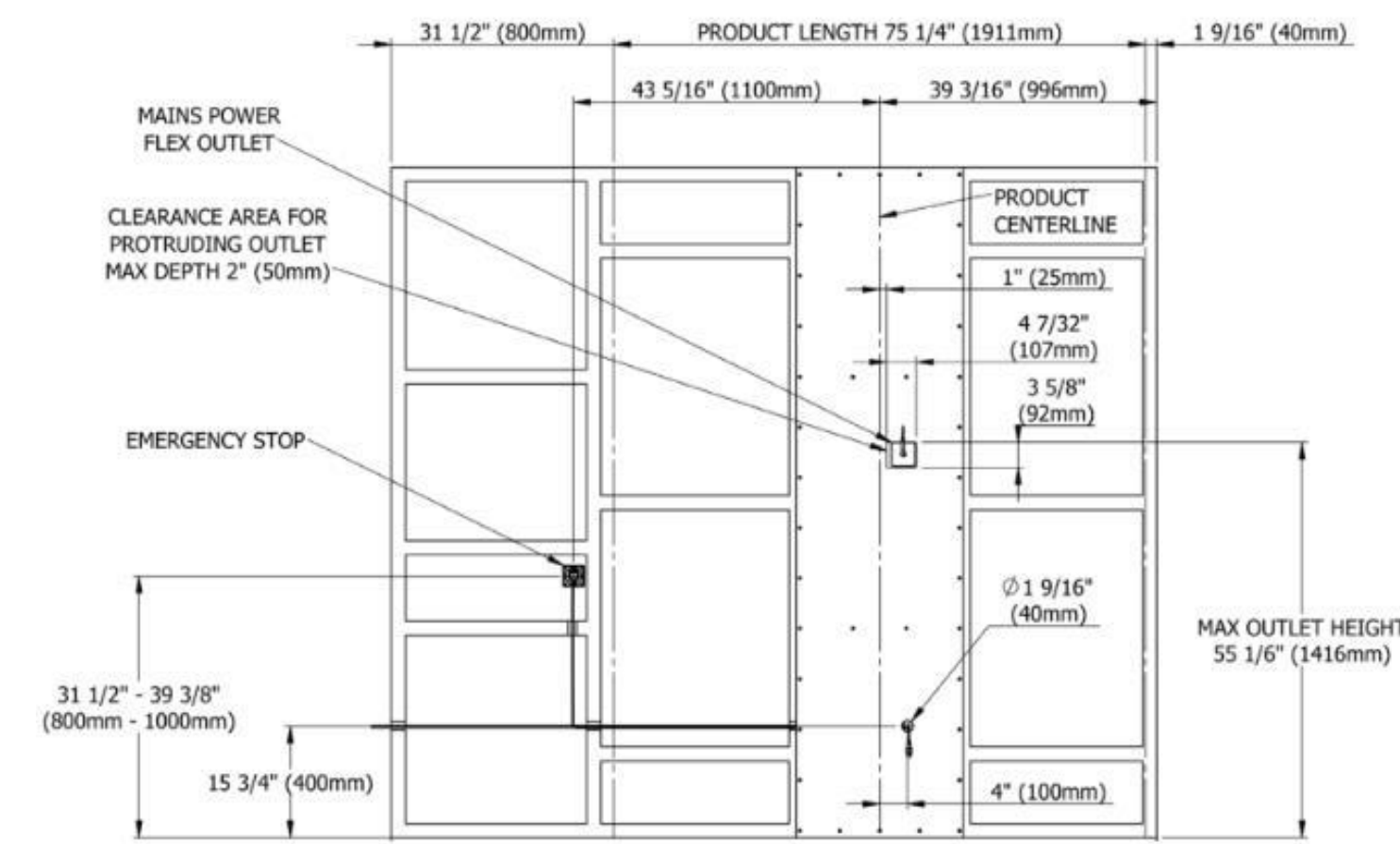
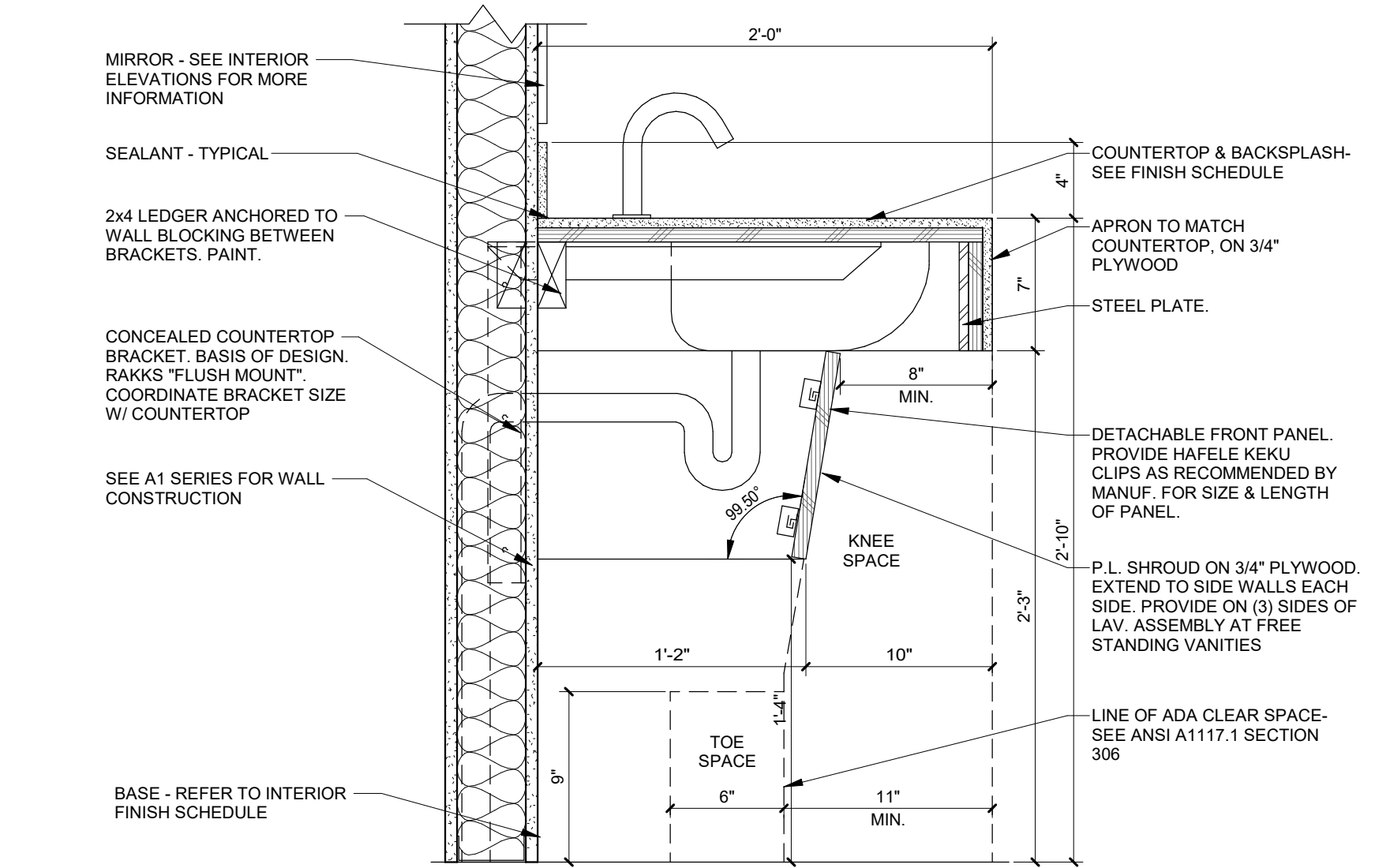


Fig 11.2 Emergency stop & switch, waterproof, flex outlet

NOTES:
1. TYPICAL MANUFACTURER INSTALLATION DETAIL PROVIDED FOR CONTRACTOR REFERENCE. CONTRACTOR TO CONSULT FULL INSTALLATION GUIDE TO LOCATE/COORDINATE ARCHITECTURAL, STRUCTURAL AND ELECTRICAL REQUIREMENTS.
2. PROVIDE FOR FLOOR MOUNTED UNIT INSTALLATION.
3. BASE BID: PREP FOR FUTURE INSTALL OF ADULT CHANGING STATION. PROVIDE ALL ARCHITECTURAL, STRUCTURAL AND ELECTRICAL ELEMENTS REQUIRED FOR FUTURE INSTALLATION. PROVIDE BLANK COVER PLATES AS REQ'D @ ELECTRICAL LOCATIONS.
4. ALTERNATE 2: PROVIDE FULL INSTALLATION OF ADULT CHANGING STATION.

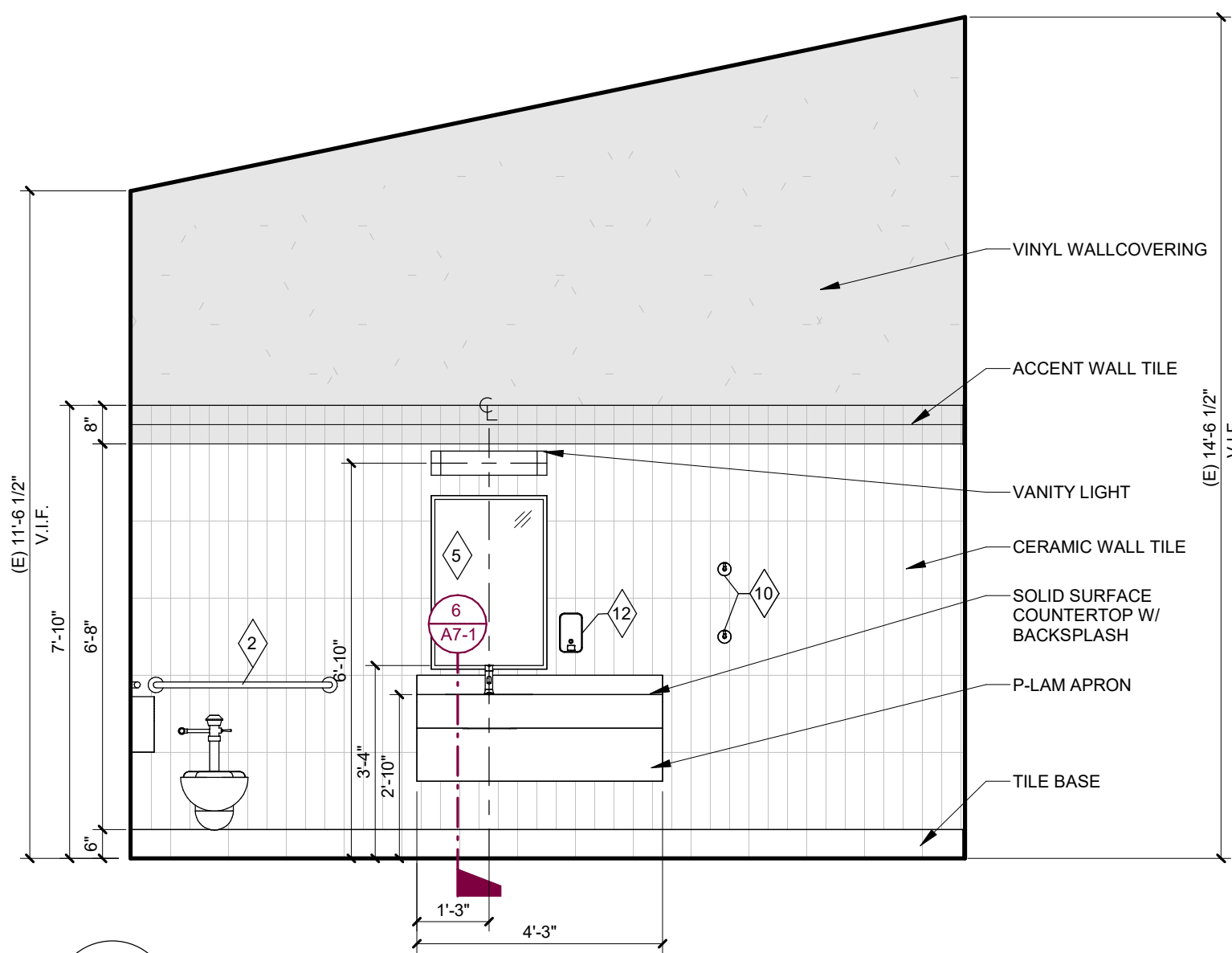
7 TYPE DETAIL - ADULT CHANGING STATION, MANUF. INFO

SCALE: 1 1/2" = 1'-0"



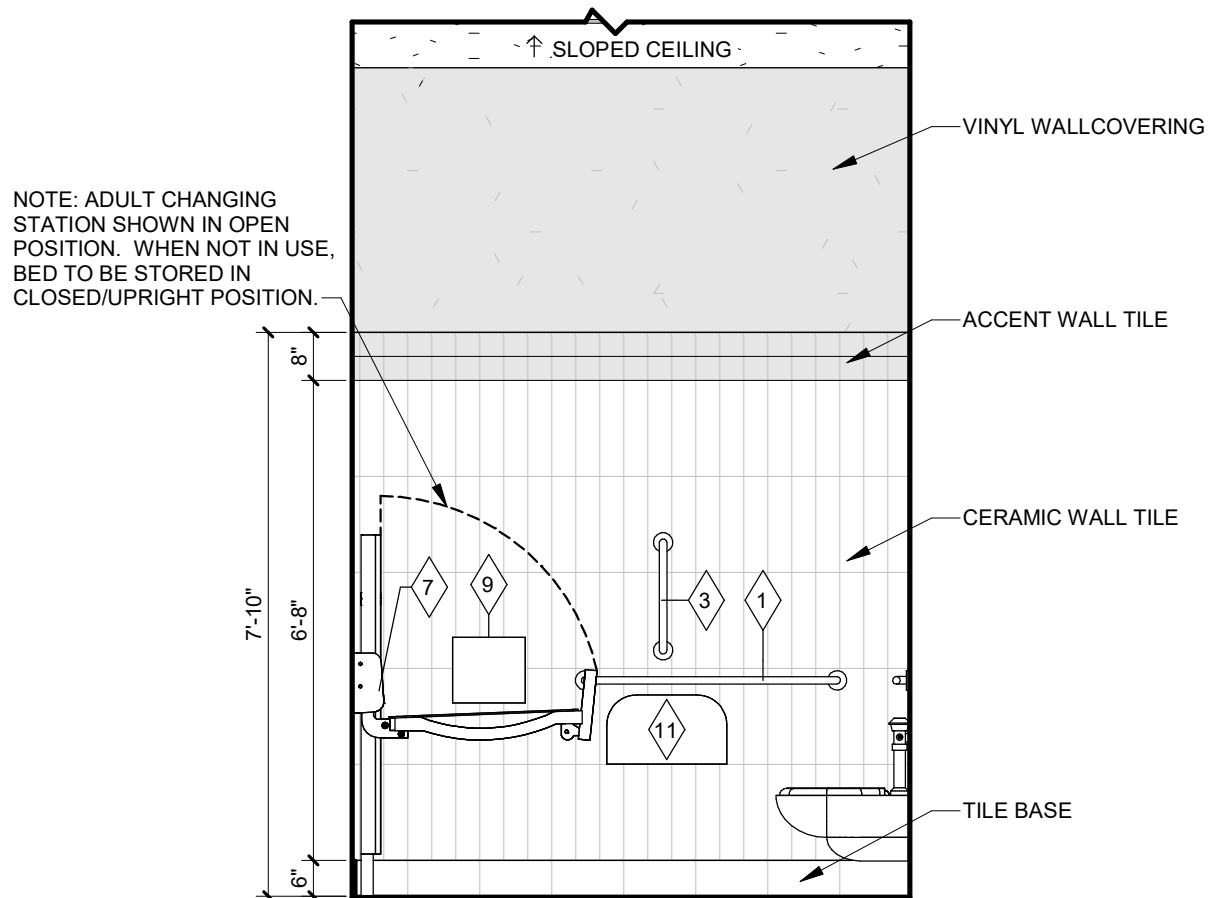
6 SECTION @ RESTROOM COUNTER

SCALE: 1 1/2" = 1'-0"



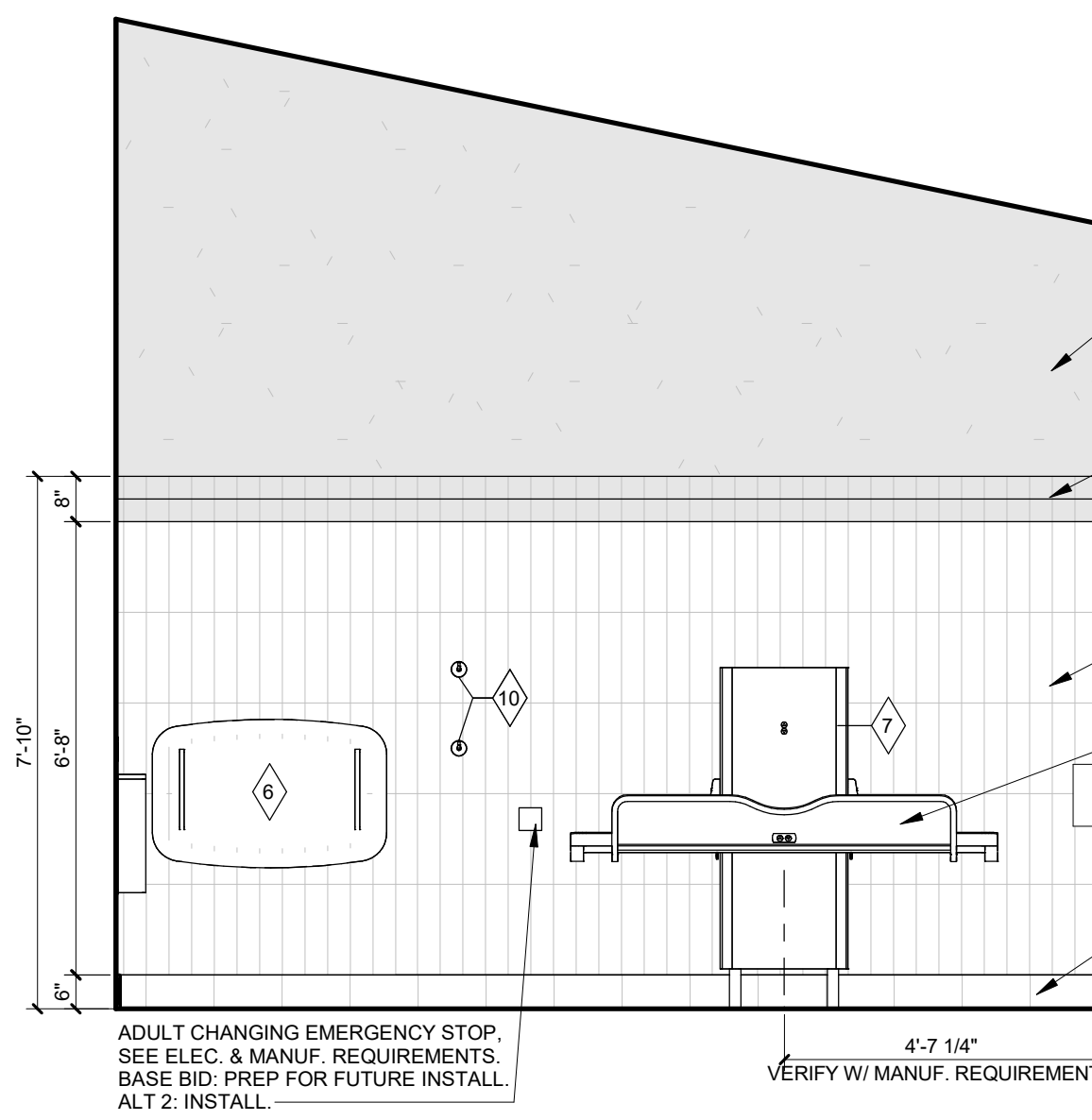
5 WEST ELEVATION- FAMILY RR

SCALE: 3/8" = 1'-0"



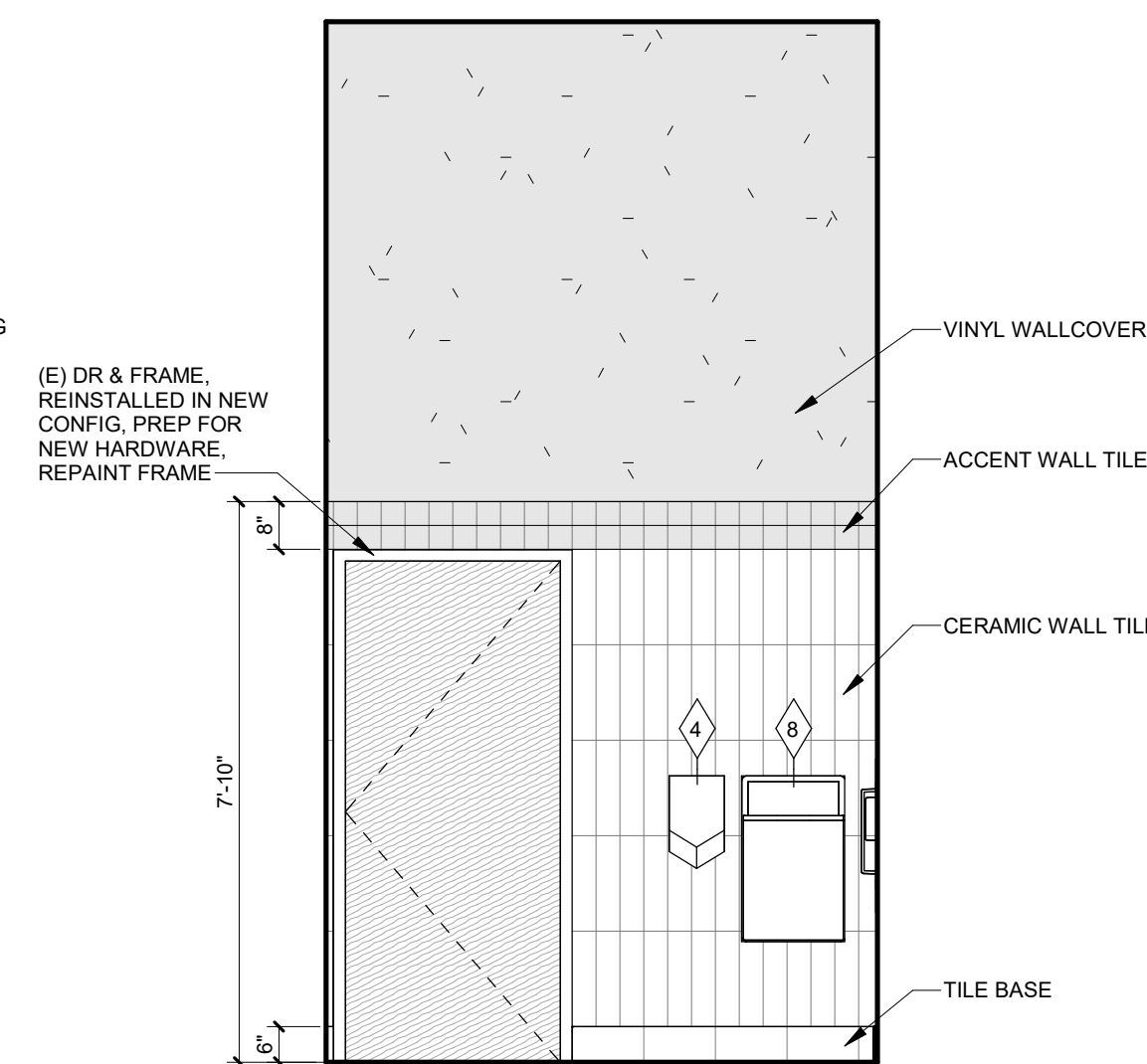
4 SOUTH ELEVATION- FAMILY RR

SCALE: 3/8" = 1'-0"



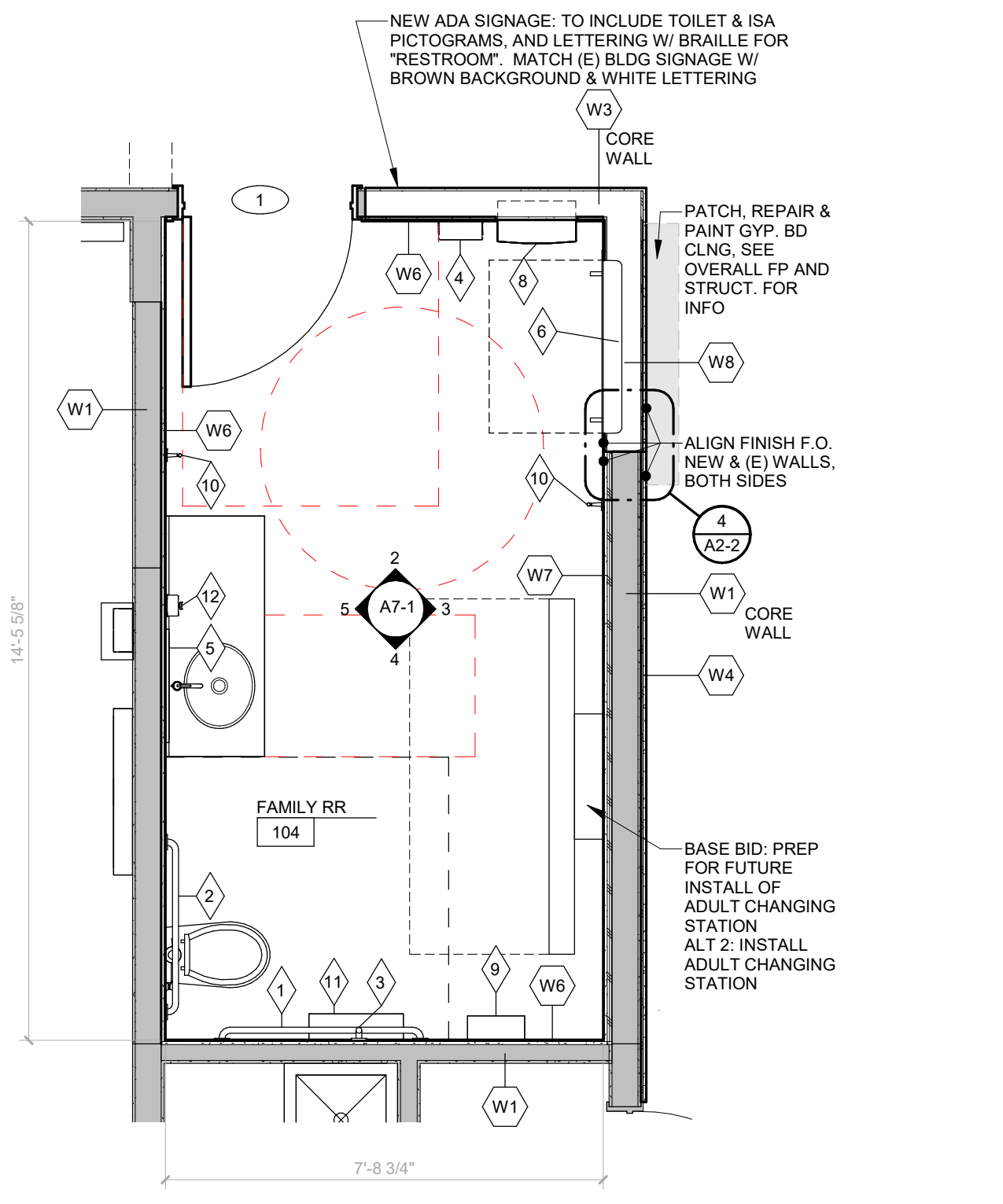
3 EAST ELEVATION- FAMILY RR

SCALE: 3/8" = 1'-0"



2 NORTH ELEVATION- FAMILY RR

SCALE: 3/8" = 1'-0"



1 ENLARGED PLAN @ FAMILY RESTROOM

SCALE: 3/8" = 1'-0"

700_TOILET ACCESSORY SCHEDULE				
MARK	DESCRIPTION	MANUFACTURER	MODEL NO.	REMARKS
1	TOILET COMPART - HORIZ. GRAB BAR (3'-6" L.)	BOBRICK	B-680642	SATIN FINISH STAINLESS STEEL
2	TOILET COMPART - HORIZ. GRAB BAR (3'-0" L.)	BOBRICK	B-680636	SATIN FINISH STAINLESS STEEL
3	TOILET COMPART - VERT. GRAB BAR (1'-6" L.)	BOBRICK	B-680618	SATIN FINISH STAINLESS STEEL
4	ELECTRIC HAND DRYER	DYSON	AIRBLADE V AB12	SPRAYED NICKEL, MOUNT CENTER @ 46" A.F.F.
5	24" X 36" WELDED FRAME MIRROR	BOBRICK	B-100 2436	STAINLESS STEEL FRAME
6	ADULT CHANGING STATION	KOALA KARE	KB310-SSRE	RECESSED
7	ADULT CHANGING STATION	KOALA KARE	KB3000	FLR MOUNTED, ADJUSTABLE HEIGHT. SEE STRUCT AND ELEC. FOR ADDITIONAL REQUIREMENTS. BASE BID INCLUDES PREP. ALT 2: INCLUDES UNIT AND FULL INSTALL.
8	WASTE RECEPTACLE	BOBRICK	B-43644	RECESSED
9	SHARPS DISPOSAL	BD	305426	5.4 QUART, RED
10	SINGLE HOOK	BOBRICK	B-76727	SEE ACCESSORY NOTE #2
11	TOILET PAPER DISPENSER	GEORGIA PACIFIC	59210	BLACK
12	SOAP DISPENSER	SPARTAN	975700	BLACK

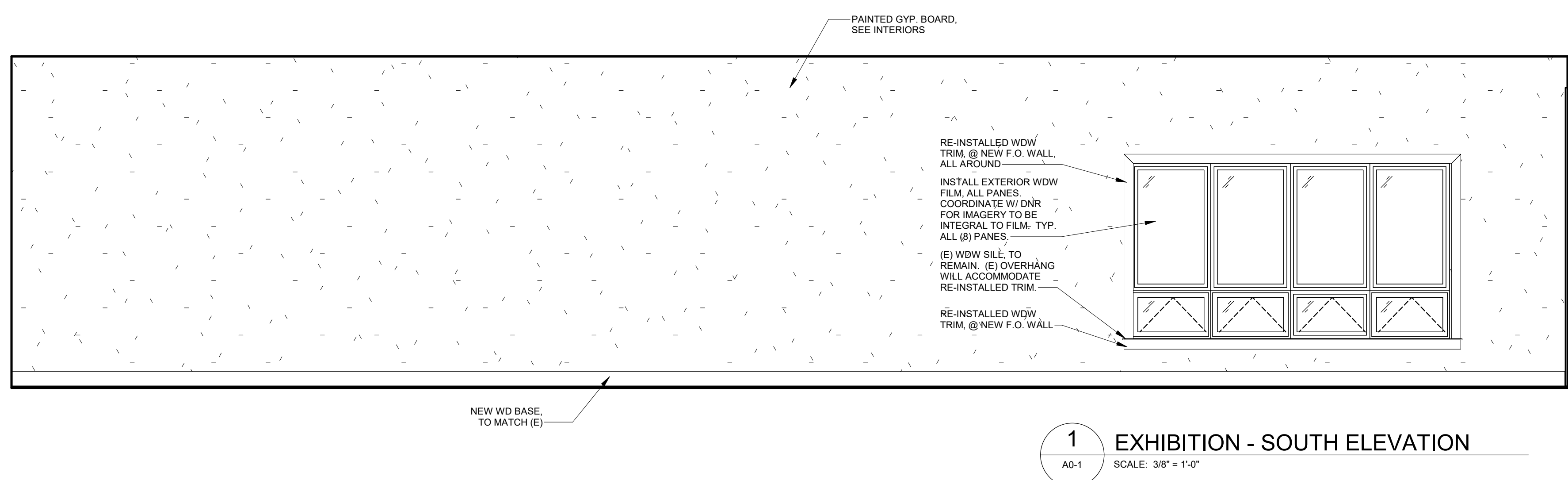
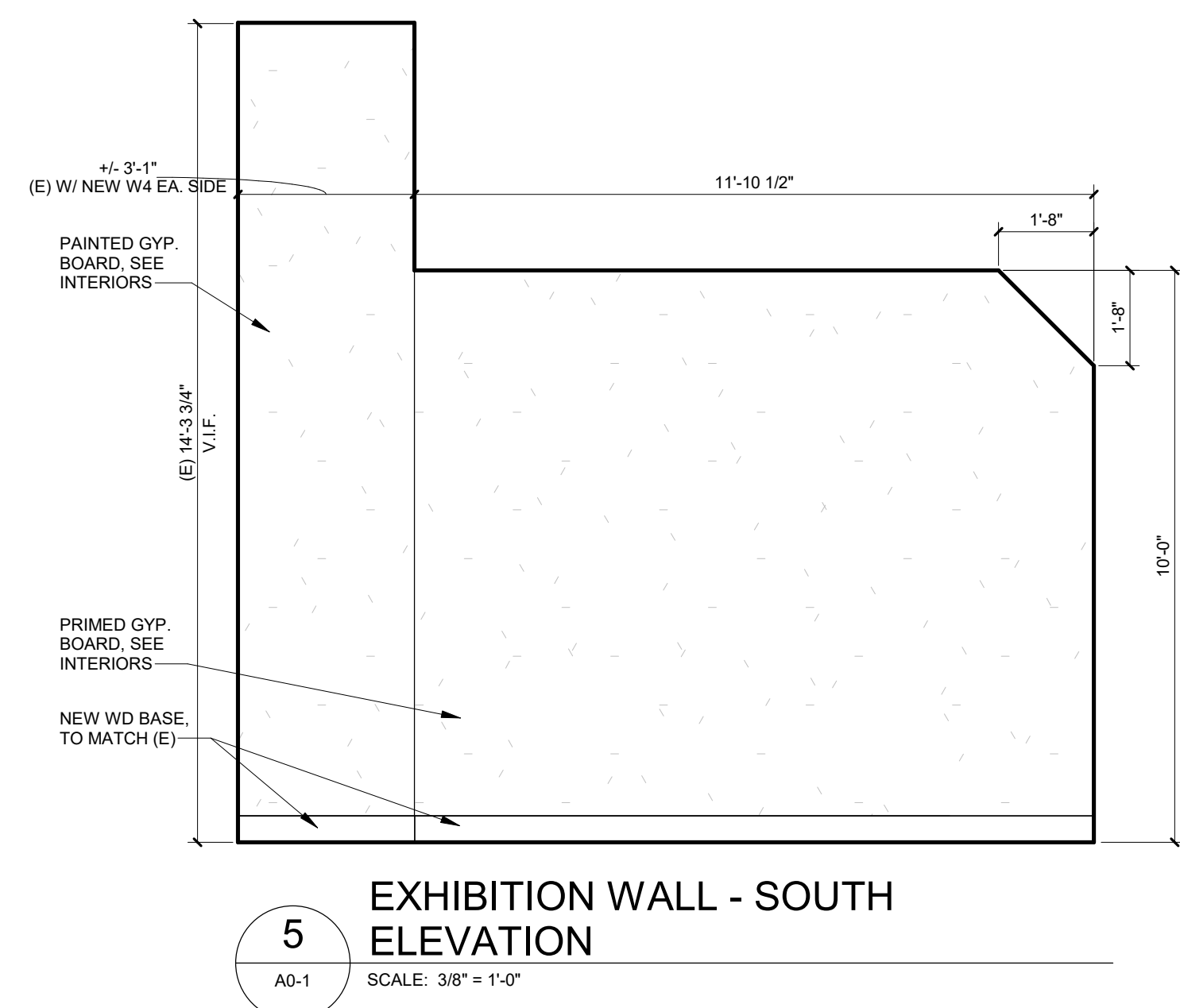
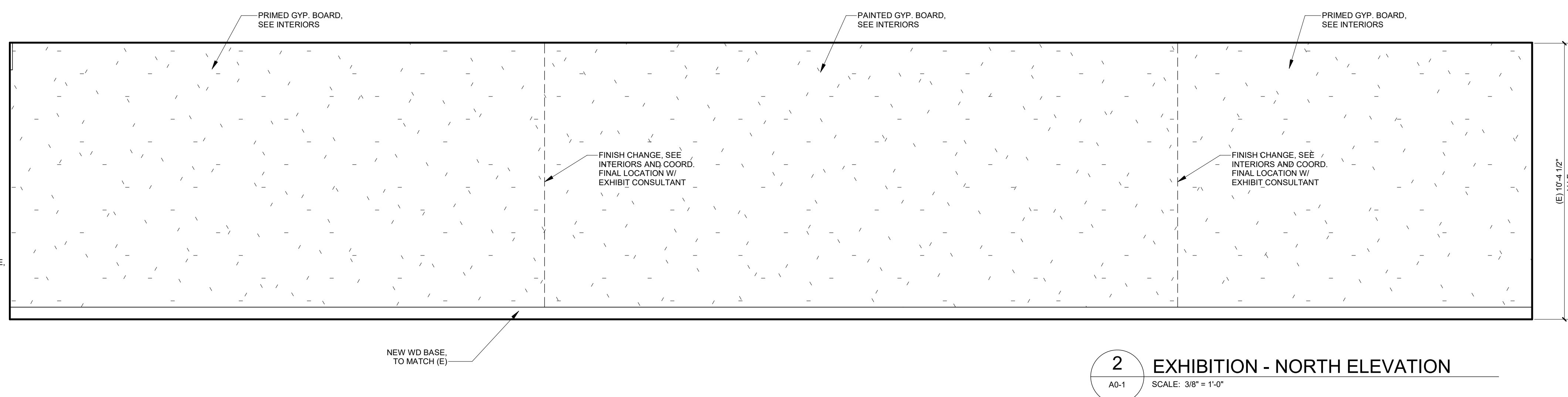
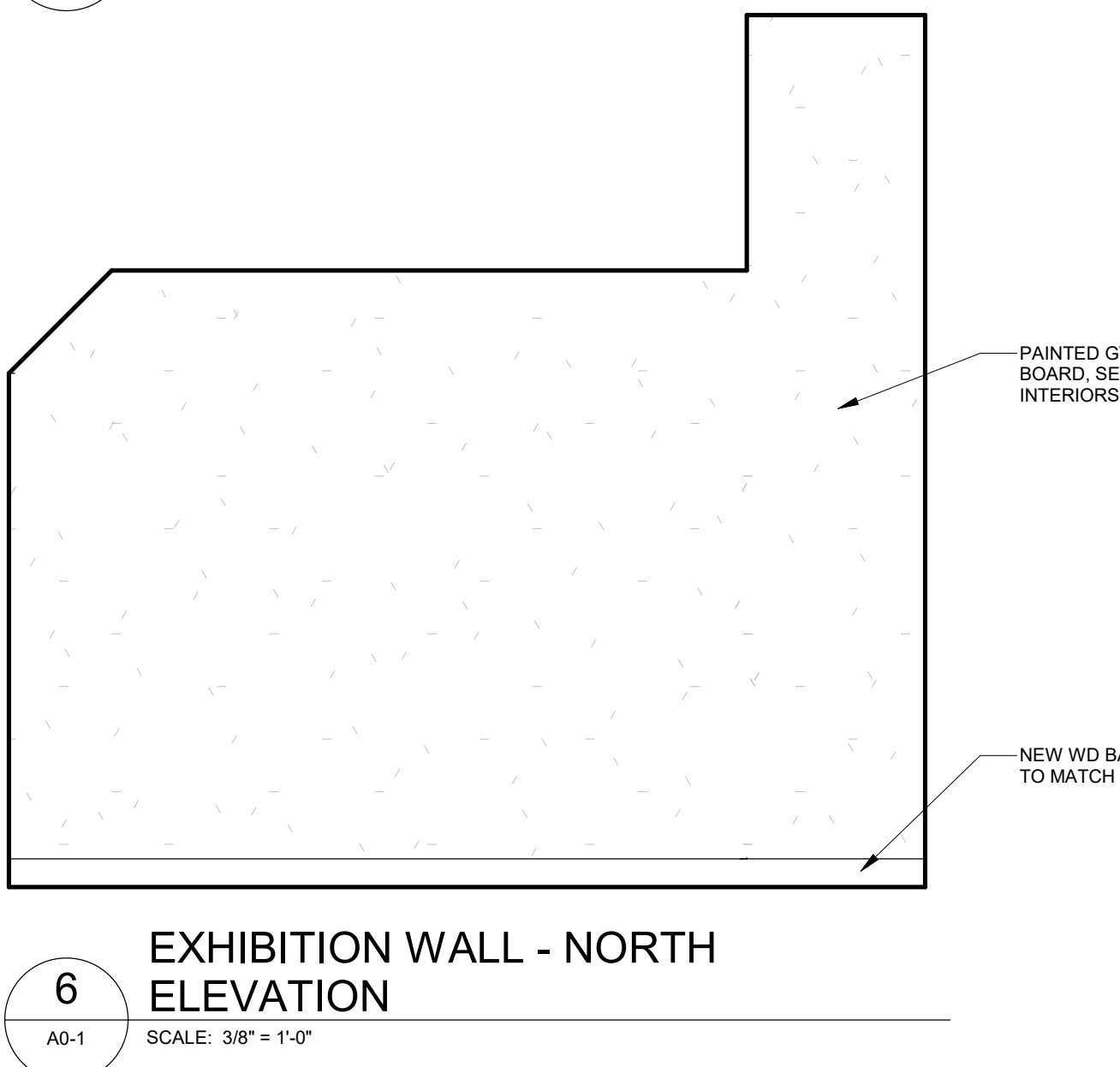
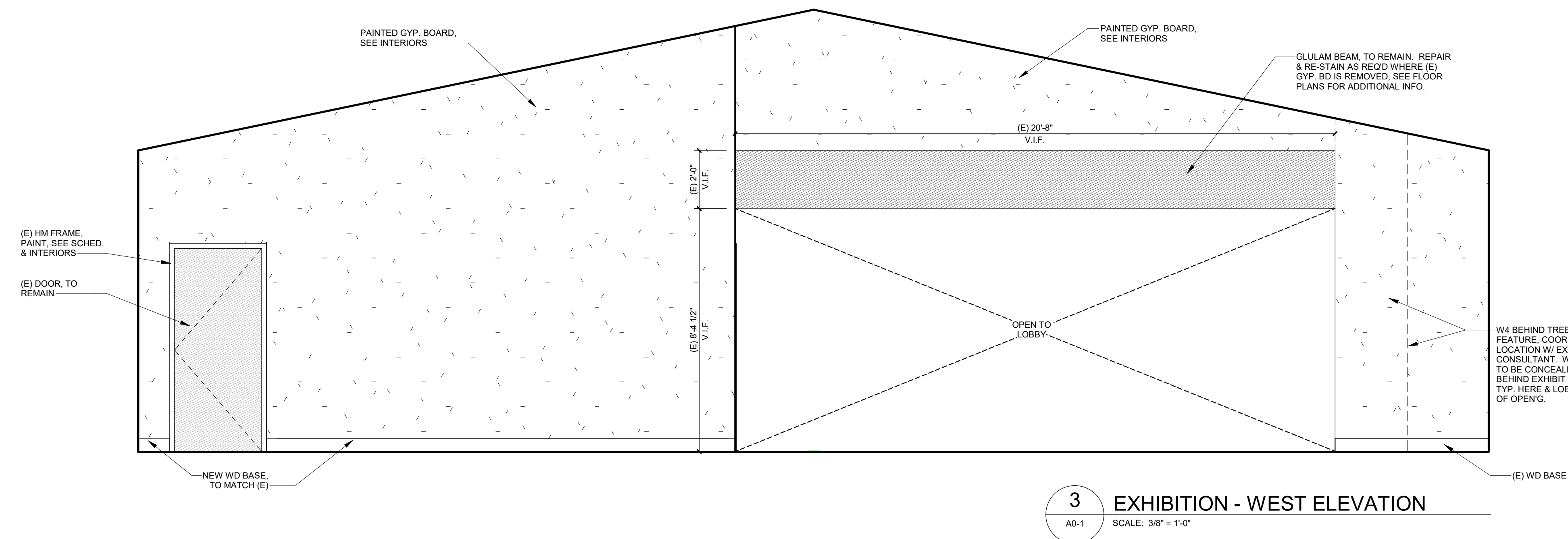
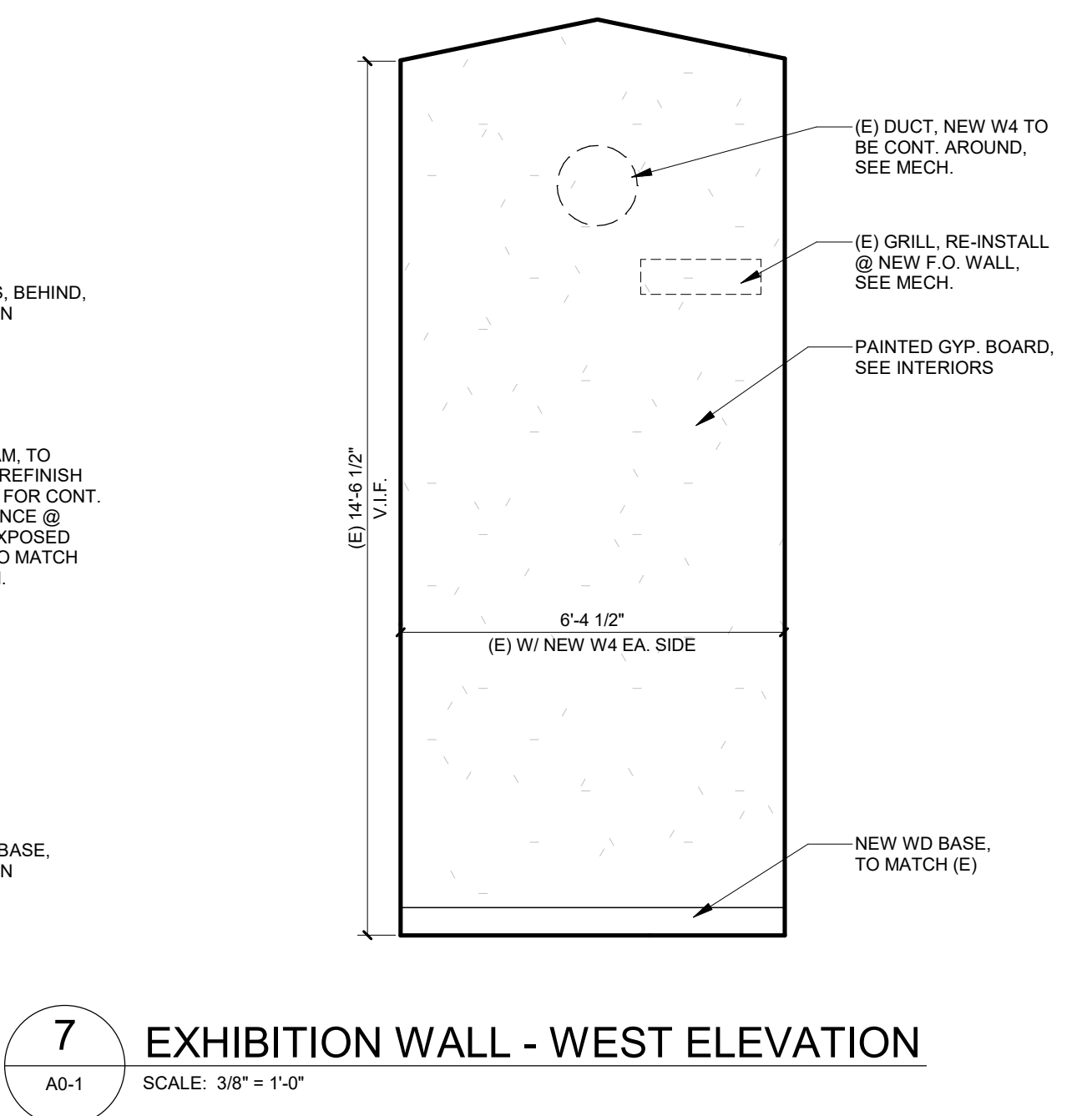
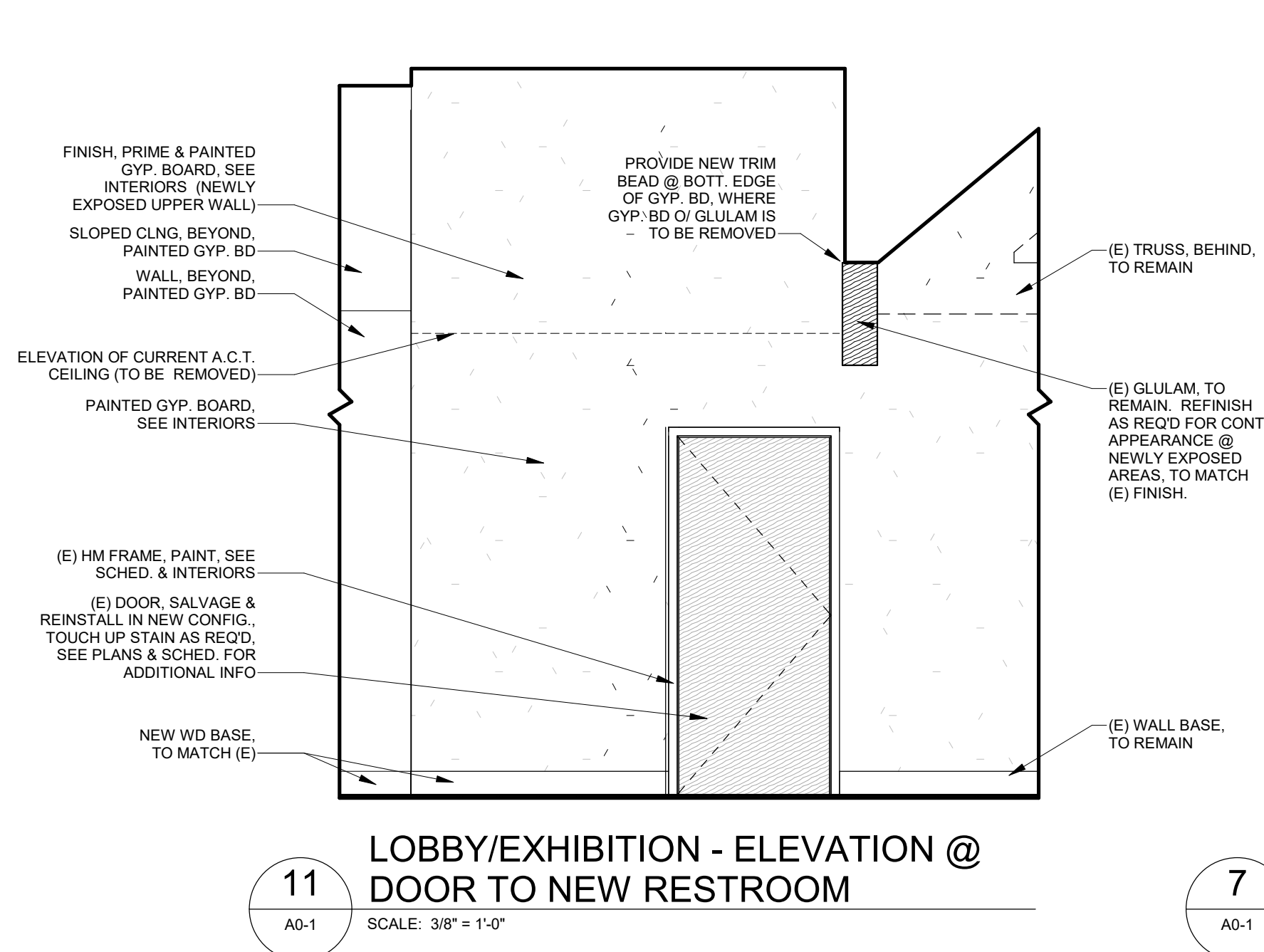
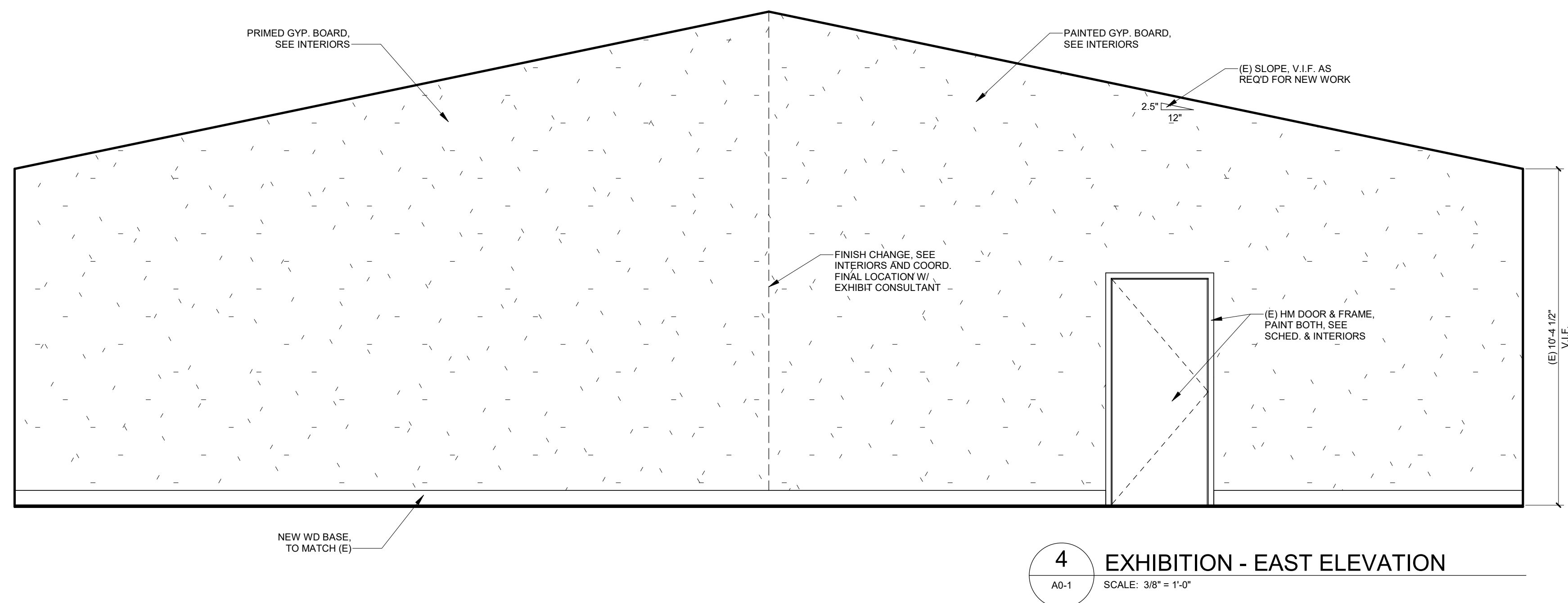
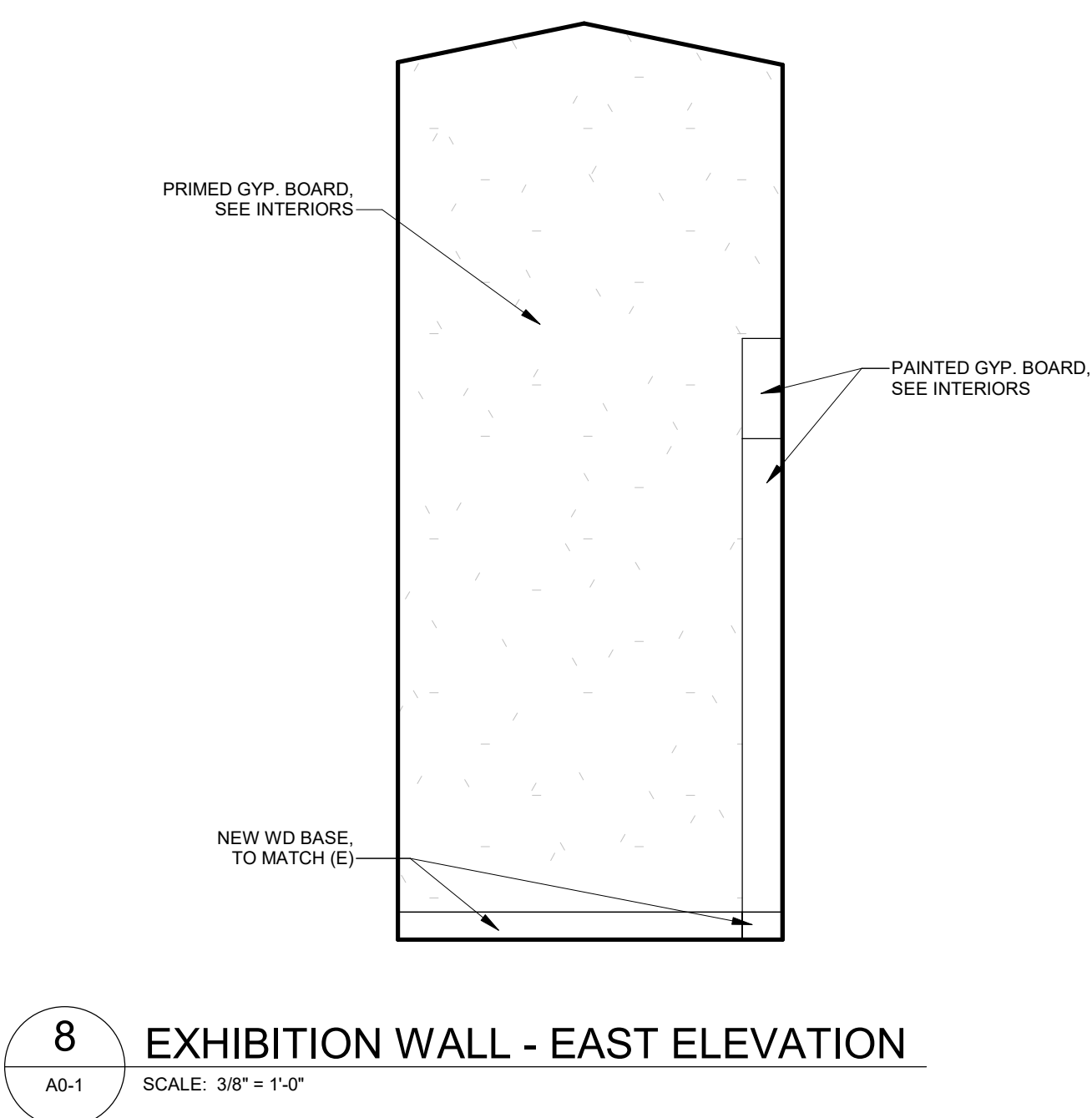
TOILET ACCESSORY NOTES

- ALL ITEMS LISTED AS OWNER SUPPLIED ITEMS ARE TO BE COORDINATED & INSTALLED BY THE CONTRACTOR.
- PROVIDE (4) HOOKS AT SINGLE USER TOILET ROOM IN LOCATIONS SHOWN. MOUNT LOWER AT 46" MAX AFF, THE UPPER AT 60" A.F.F.
- PROVIDE BLOCKING IN WALL FOR ALL ACCESSORIES. SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION.
- FIXTURES SHOWN WITH A "B.F." TO BE BARRIER FREE / ADA COMPLIANT. ALL SINGLE STALL TOILET ROOMS TO BE FULLY BARRIER FREE.
- ALL EXPOSED LAVATORY WASTE PIPE LINE ASSEMBLIES TO HAVE ADA APPROVED VINYL JACKET PROTECTION. SEE PLUMBING DRAWINGS.

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50% CD	6 Mar. 2025
50% DD	30 Jan. 2026
Design	-
P/M/PA	AK / AK
Drawn	AP/ ZH
IA Project Number	20251010

**INTERIOR
ELEVATIONS**

A8-1



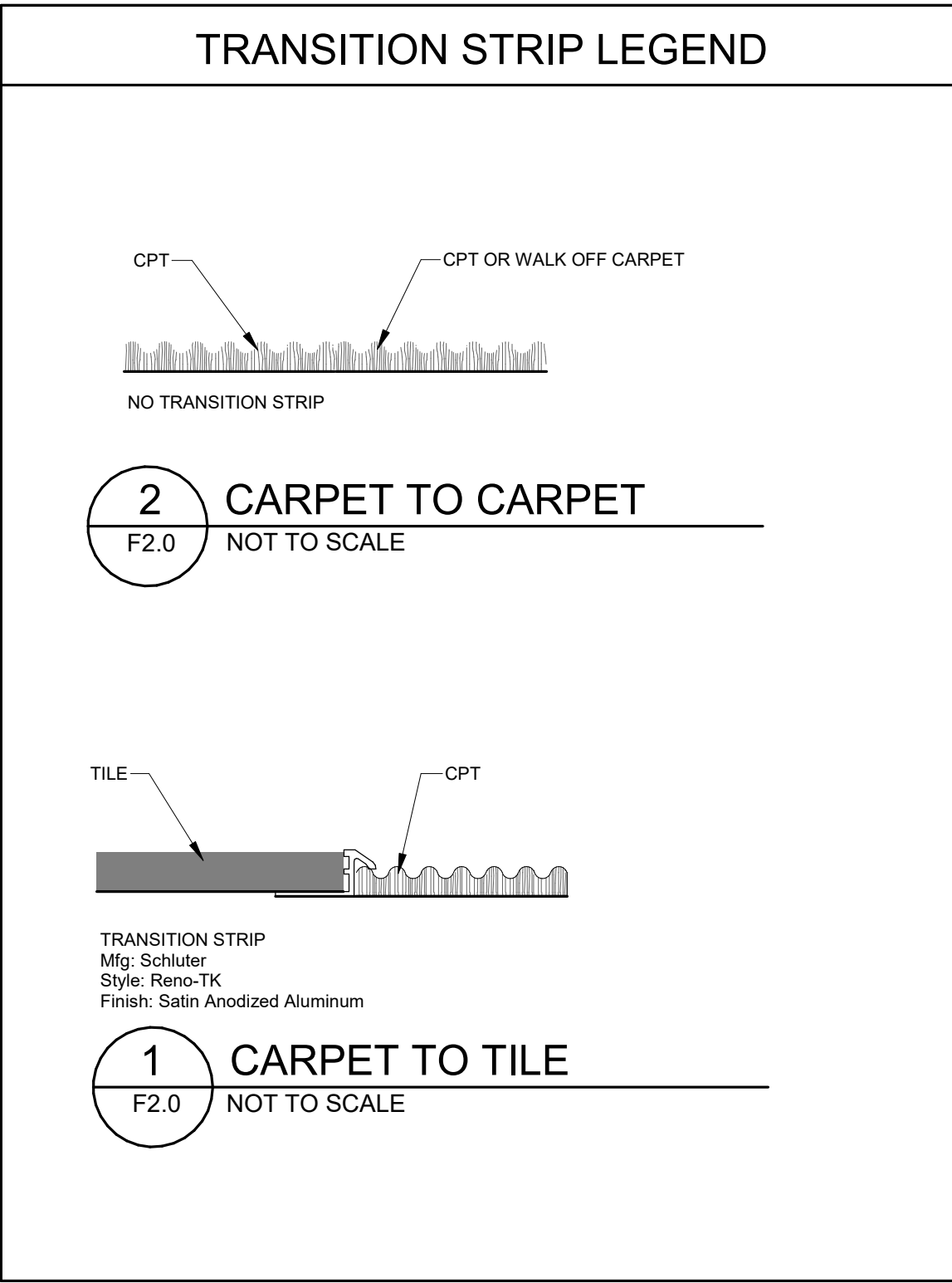


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PM/PA	AK / AK
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FINISH
SPECIFICATIONS
AND DETAILS

F2-0

GENERAL FINISH NOTES		FINISH SPECIFICATIONS	
The Contractor is to protect all finishes from each trades subsequent work to keep finishes new. See "FF" sheet(s) for floor finish locations See "FW" sheet(s) for wall finish locations		FLOORS	CEILING
GENERAL NOTES 1. Submittals: a. Any changes made to the finish specifications will require sample submittals for approval before ordering. 2. Flooring Transitions: a. Provide a leveling compound between floor materials with different thickness. Feather floor to a smooth transition. b. Use transition strips as indicated in finish schedule where applicable. 3. Carpet (Tile) Installation: a. All carpet tiles shall be installed in the direction indicated on the finish specifications. b. All carpet pattern changes shall occur under the door when closed. c. Use the installation method recommended by the manufacturer. 4. Paint: a. The typical wall paint finish shall be satin. b. The typical hollow metal door and door frame finish shall be semi-gloss finish. c. The typical ceiling paint finish shall be flat. d. In wall areas, an epoxy paint shall be used with a semi-gloss finish. e. All paints must comply with the VOC limits as listed below (including colorants): 1. Flat Paints and Coatings: no more than 50 g/l 2. Non-Flat Paints and Coatings: no more than 150 g/l 3. Anticorrosive Paints and Coatings: no more than 250 g/l 4. Stains: no more than 250 g/l 5. Door and Door Frames: a. All hollow metal door frames within scope of work shall be painted. Paint color to match adjacent wall finish. b. All hollow metal doors within scope of work shall be painted. Paint color to match adjacent wall finish. c. All wood doors within scope of work shall be stained as noted on drawings. Stain color to match existing. 6. Plastic Laminate Installation: a. Edges are to be laminated after panel faces. b. Overlap and trim edges to avoid a mitered profile. All frontal panels to resemble this look, including shelves and cabinet faces, so edges and seams are concealed. 7. Bulkheads: a. All bulkhead undersides are to be painted same as bulkhead face unless otherwise noted. b. All bulkhead faces are to have the same finish as the adjoining wall unless otherwise noted. 8. Ceramic and Porcelain Tile Installation: a. When possible use 1/8" grout or smaller at tile installation. b. When installing tiles, put tiles from separate pallets to insure random patterns. c. Install wall tile so that mirrors, fixtures & switch plate covers are flush with wall. The tile is to stop with the side edges of these items. The shall maintain its datum line as specified. 9. Base: a. Where resilient wall base is used, coils are to be used. Cut pieces shall be no less than 18". 10. Exposed Columns: a. N/A 11. General Flooring Installation: a. The contractor and/or construction manager shall schedule and coordinate the installation of all subfloor systems to meet flooring manufacturers recommendations/specifications to maintain all flooring product and installation warranties. No additional costs will be approved for additional heat, dehumidification, floor sealer, etc. to achieve requirements. 12. Product Lead Times: a. The contractor and/or construction manager is responsible to verify and coordinate product lead times with the construction schedule. 13. Adhesives: a. The contractor and/or construction manager is responsible to verify that all adhesives and sealants are less than the current VOC content limits of South Coast Air Quality Management District (SCAQMD) rule #115 and all sealants used as fillers must meet or exceed the requirements of the Bay Area Air Quality Management District Regulation 8, Rule 51. 14. Composite Wood: a. The contractor and/or construction manager is responsible to verify that all composite wood and aggrifiber products must contain no added urea-formaldehyde resins.		CPT-1 CARPET TILE (Existing & New) Mfg: Milliken Series: Counterculture Pattern: Freethinker Color: Postmodern FTR145-141 Size: 50cm x 50cm Backing: Wellbac Comfort Installation: Ashlar CPT-2 CARPET TILE Mfg: Milliken Series: Counterculture Pattern: Freethinker Color: Flipside FTR27-197 Size: 50cm x 50cm Backing: Wellbac Comfort Installation: Ashlar PFT-1 PORCELAIN FLOOR TILE Mfg: Caesar Ceramics USA Series: Pathway Color: Ice, matte Size: 12" x 12" Installation: Straight Stack Source: Lisa McLean, Virginia Tile 616.262.1102, lisa.mclean@virginiatile.com	C-2 GYP. BD. CEILING Paint Color indicated on Wall Finish Plan
		BASE	MILLWORK
		B-1a,b,c WOOD BASE New wood base to match existing. Refer to detail 2/A2-2 B-2 TILE BASE Mfg: Caesar Ceramics USA Series: Pathway Color: Ice Size: 12" x 6" Cove Base	PL-1 PLASTIC LAMINATE (Vanity Apron) Mfg: Formica Style: HPL Color: Beige Elm 5784-AG PL-2 PLASTIC LAMINATE (Existing) Match existing. Contractor to coordinate with Architect for reslection of High-Pressure Laminate if existing spec is unavailable. SS-1 SOLID SURFACE (Vanity Countertop) Mfg: Formica Solid Surface Color: White Renew 748
		WALLS	TRANSITION STRIPS
		CG-1 CORNER GUARDS Mfg: Inpro Product: Stainless Steel Corner Guard Mounting: Surface Wing Size: Match existing Height to match existing CWT-1 CERAMIC WALL TILE Mfg: American Olean Series: Color Story Color: Stable 0055, Gloss Size: 4" x 16" Installation: Vertical Stack CWT-2 CERAMIC WALL TILE Mfg: American Olean Series: Color Story Color: Wisdom 0062, Gloss Size: 4" x 4" Installation: Straight Stack P-1 WALL PAINT Mfg: Benjamin Moore Color: 448 Pipelands P-2 WALL PAINT Mfg: Benjamin Moore Color: 1284 Potters Wheel P-3 WALL PAINT Mfg: Benjamin Moore Color: 301 Glen Ridge Gold P-4 WALL PAINT Match existing white paint finish at Lobby P-5 CEILING PAINT Mfg: Benjamin Moore Color: 2132-10 Black Finish: Flat PR-1 WALL PRIMER Mfg: Zinsser Product: Gardz Note: Wall surface to be Level 5 Finish VWC-1 VINYL WALLCOVERING Mfg: Spoonflower Pattern: 16305229 Type: Vinyl, Type I Source: Marco Evans, Spoonflower 865.414.4501, marcy.sullivan@spoonflower.com	TS-1 TRANSITION STRIP Tile to Carpet Mfg: Schluter Style: Reno-TX Finish: Satin Anodized Aluminum

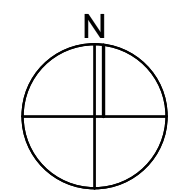
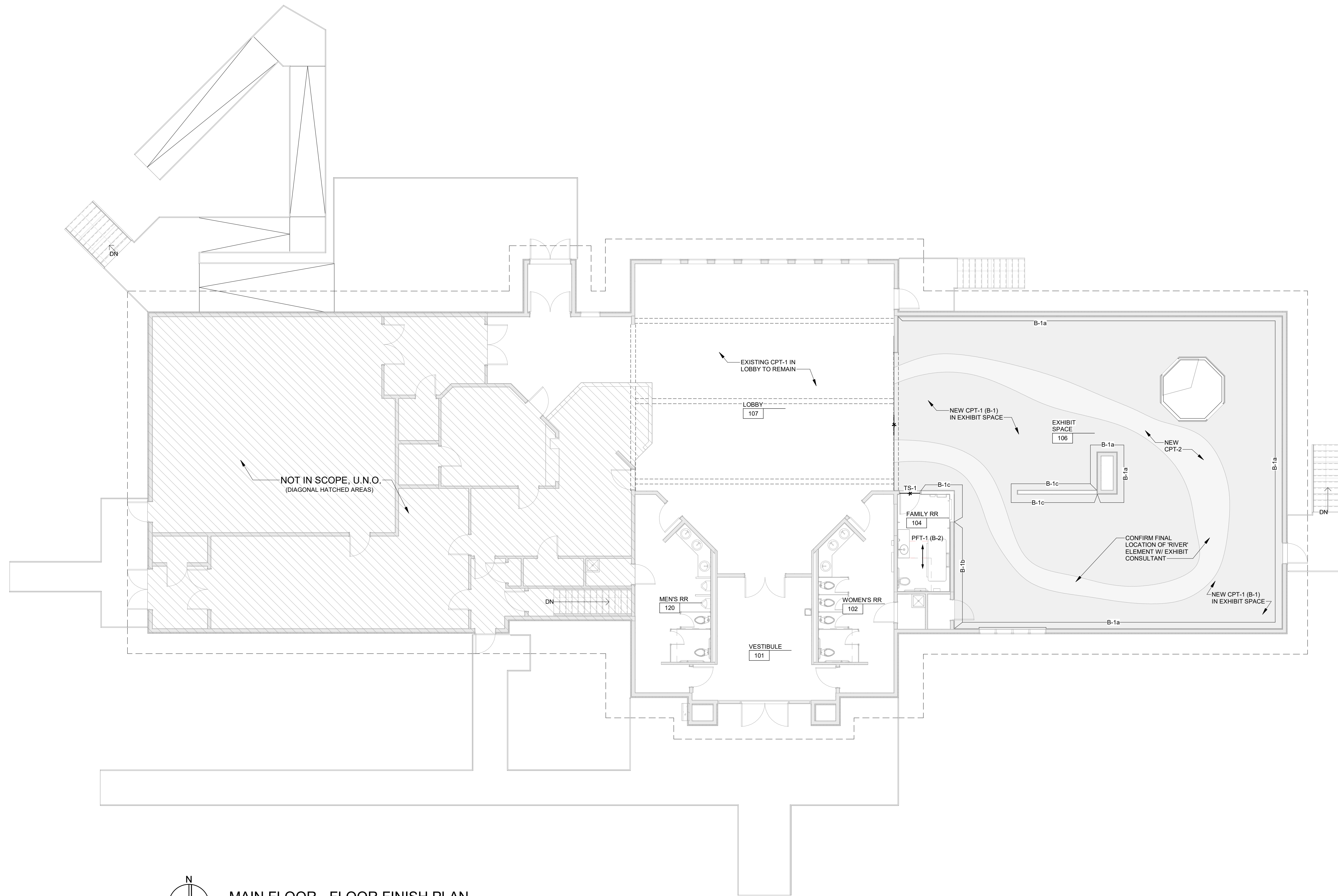
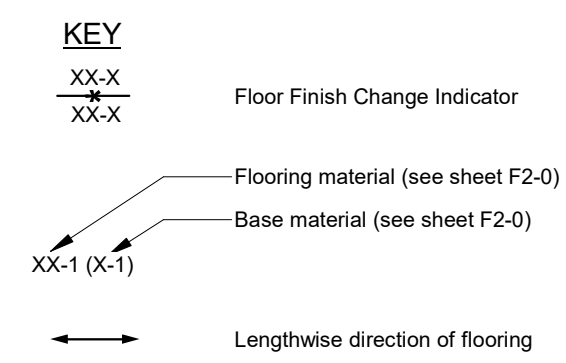


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PMP/PA	AK / AK
Drawn	AS/ ZH
IA Project Number	20251010

FLOOR FINISH
PLAN

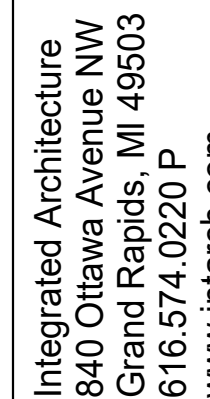
FF1-1

FLOOR FINISH PLAN NOTES



MAIN FLOOR - FLOOR FINISH PLAN

SCALE: 1/8" = 1'-0"



STATE OF MICHIGAN
DEPARTMENT OF TECHNOLOGY, MANAGEMENT AND BUDGET
STATE FACILITIES ADMINISTRATION
DESIGN AND CONSTRUCTION DIVISION

751/26054.HJD HARTWICK PINES STATE PARK -
VISITOR CENTER EXHIBIT SPACE

[illegible]

Bid / Permit	13 May 2
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90% DD	13 Feb. 2
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Design	-
PM/PA	AK / AK
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WALL FINISH
PLAN

FW1-1

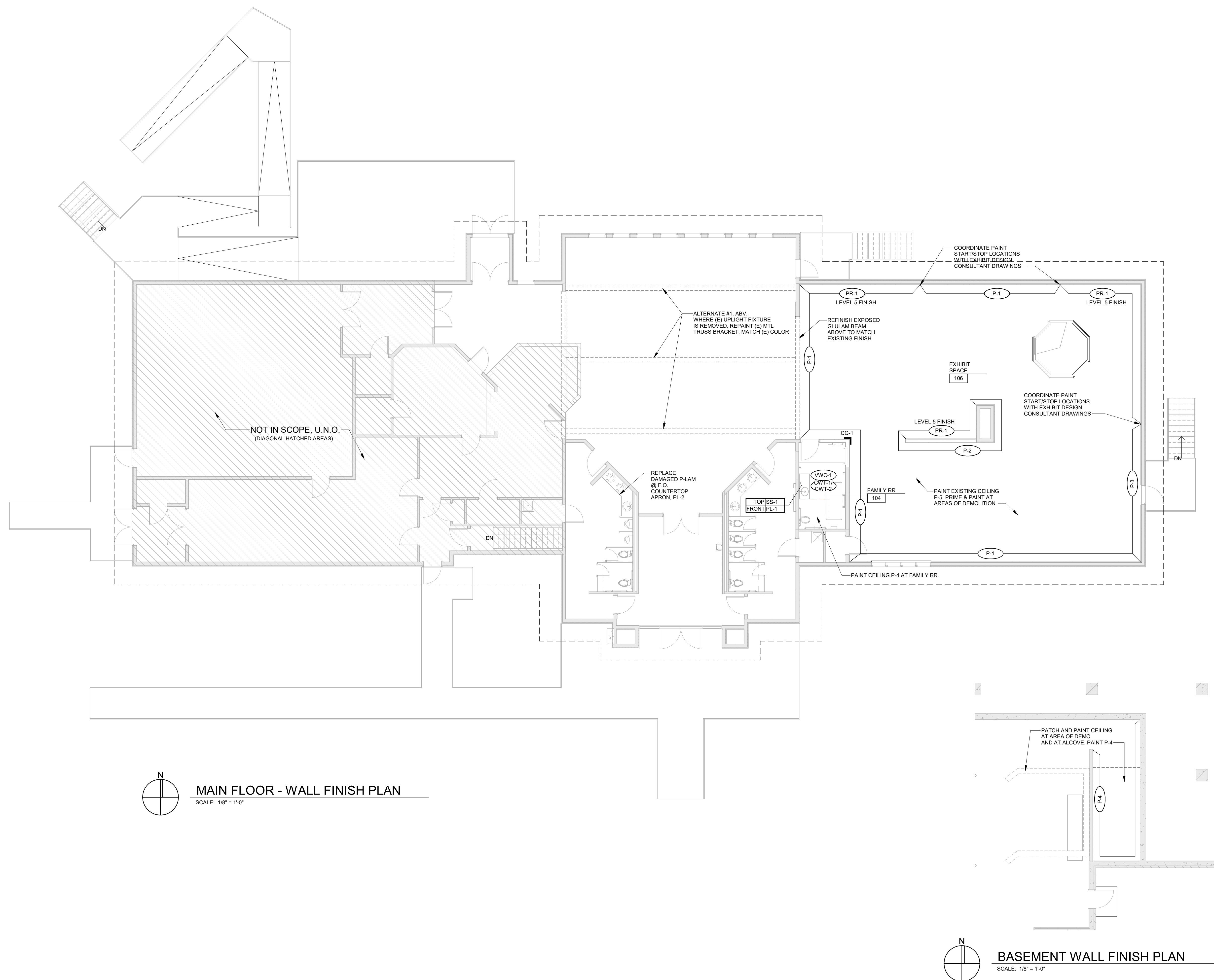
1. GYP. BOARD FINISHES NOT INDICATED ON WALL PLANS SHALL BE EXISTING FINISH TO REMAIN.
2. BULKHEADS SHALL BE PAINTED THE SAME COLOR AS THE ADJACENT WALL, UNLESS INDICATED OTHERWISE ON THE FINISH PLAN.
3. BULKHEAD UNDERSIDES SHALL BE PAINTED SAME AS BULKHEAD FACE, UNLESS INDICATED OTHERWISE ON THE FINISH PLAN OR AS NOTED BELOW.

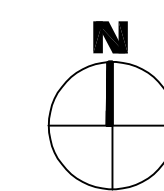
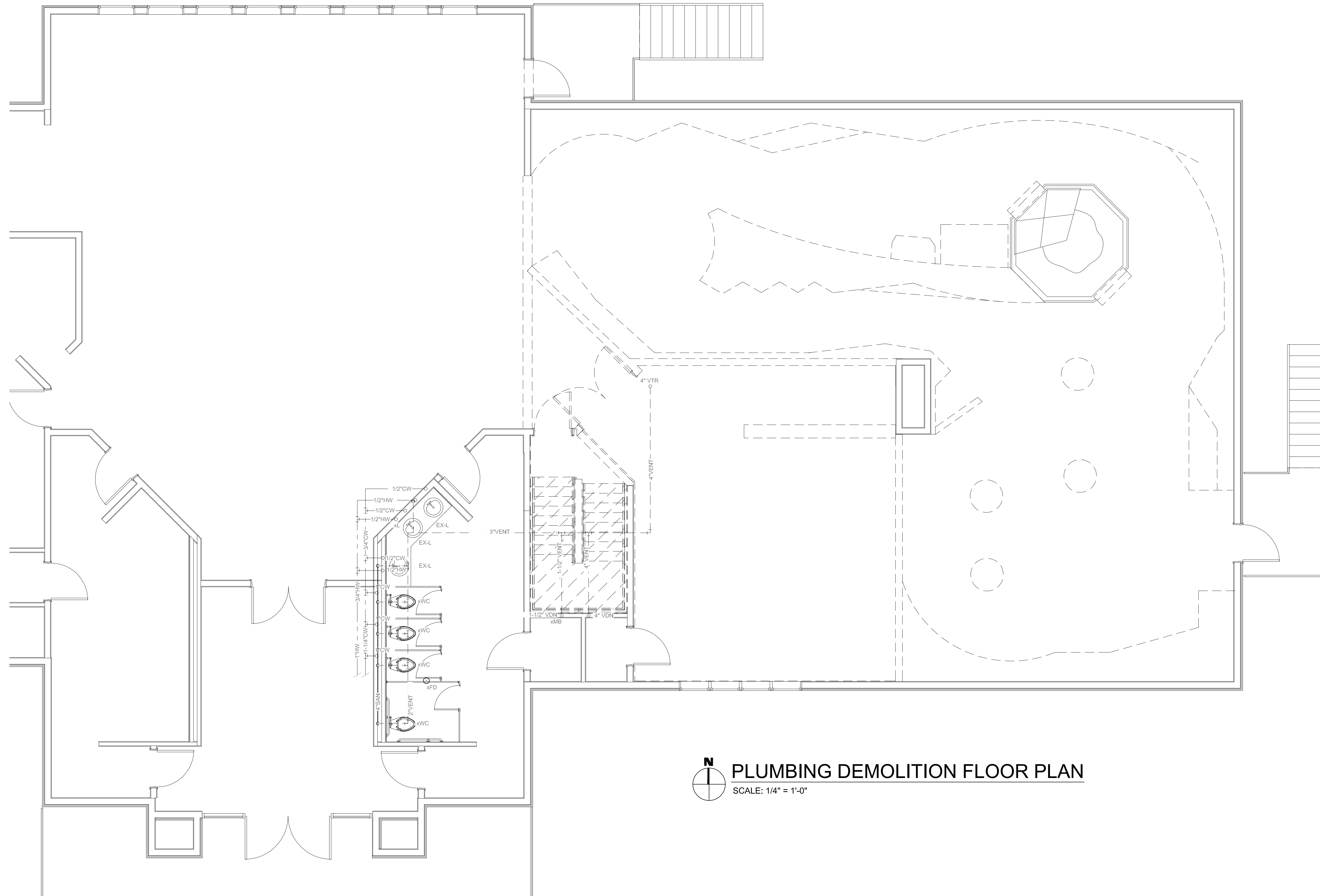
 Wall Finish Tag Indicator: indicates wall finish from floor to finish ceiling unless noted otherwise on finish plan.

 Wall Finish Stop and Start Points

 Corner Guard type and location

KEY		
TOP	XX-X	Counter Finish (See sheet F2-0)
FRONT	XX-X	Cabinet/Millwork Face Finish (See sheet F2-0)





PLUMBING DEMOLITION FLOOR PLAN

SCALE: 1/4" = 1'-0"

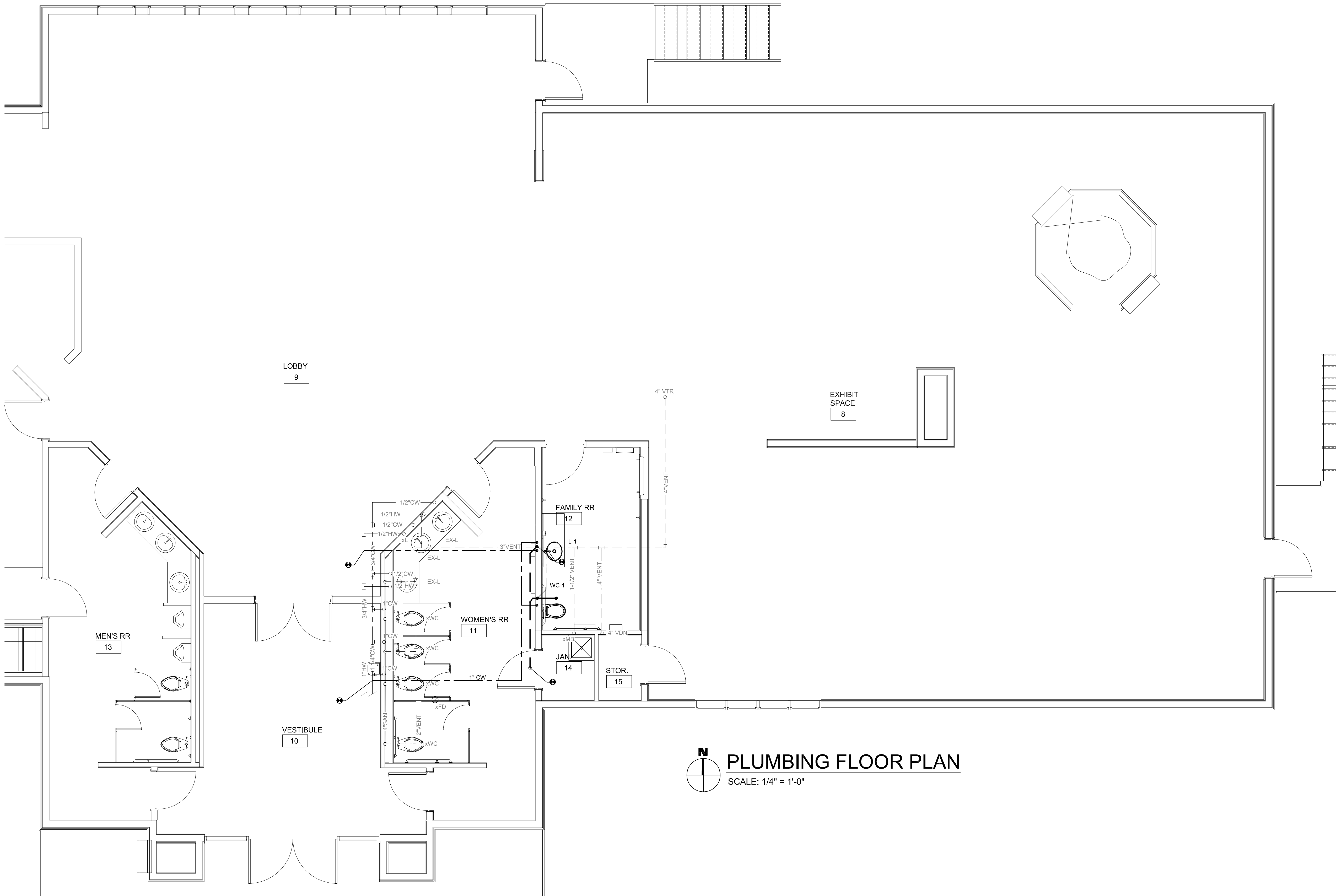
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Design	WDH
PMPA	WDH
Drawn	WDH
IA Project Number	20251010

PLUMBING
DEMOLITION
FLOOR PLAN

PD0-1

PLUMBING FIXTURE SCHEDULE								
TAG	DESCRIPTION	MANUFACTURER	MODEL	ROUGH-IN SIZE (INCHES)				REMARKS
				CW	HW	WASTE	VENT	
WC-1	WALL MOUNTED, ELONGATED WATER CLOSET, FLUSH VALVE, 1.28 GPF - ADA	ZURN	Z5615-BWL	1"	-	3"	2"	FLUSH VALVE: ZEPH000AV-CRM-HET SEAT BEMS #2155SSCT, SELF-SUSTAINING
L-1	UNDERMOUNT COUNTERTOP LAVATORY - ADA	KOHLER	CAXTON K-2210	1/2"	1-1/2"	1-1/2"		DELTA559HA-CRM-DST SINGLE LEVER FAUCET WITH FKED STRAINER ① CHROME STOPS 1/4 TURN SUPPLIES AND P-TRAP
FD-1	FLOOR DRAIN WITH ROUND STRAINER, TRAP SEAL	ZURN	EZ-PV2	-	-	2"	-	SATIN NICKEL BRONZE STRAINER ②
FIXTURES SCHEDULED ABOVE ARE BASIS OF DESIGN. ANY OTHER FIXTURES WOULD NEED TO BE SUBMITTED AS VOLUNTARY ALTERNATES.								
①	PROVIDE MIXING VALVE TO MEET ADA REQUIREMENTS. EQUAL TO WATTS USG-B, MOUNT UNDER LAV. ELEMENTARY SCHOOLS, DAY CARE, ADULT GROUP, CHILD CAMPS.							
②	FLOOR DRAIN TRAP SEALER WITH RUBBER DIAPHRAGM ASSE 1072 LISTED, EQUAL TO SURE SEAL.							



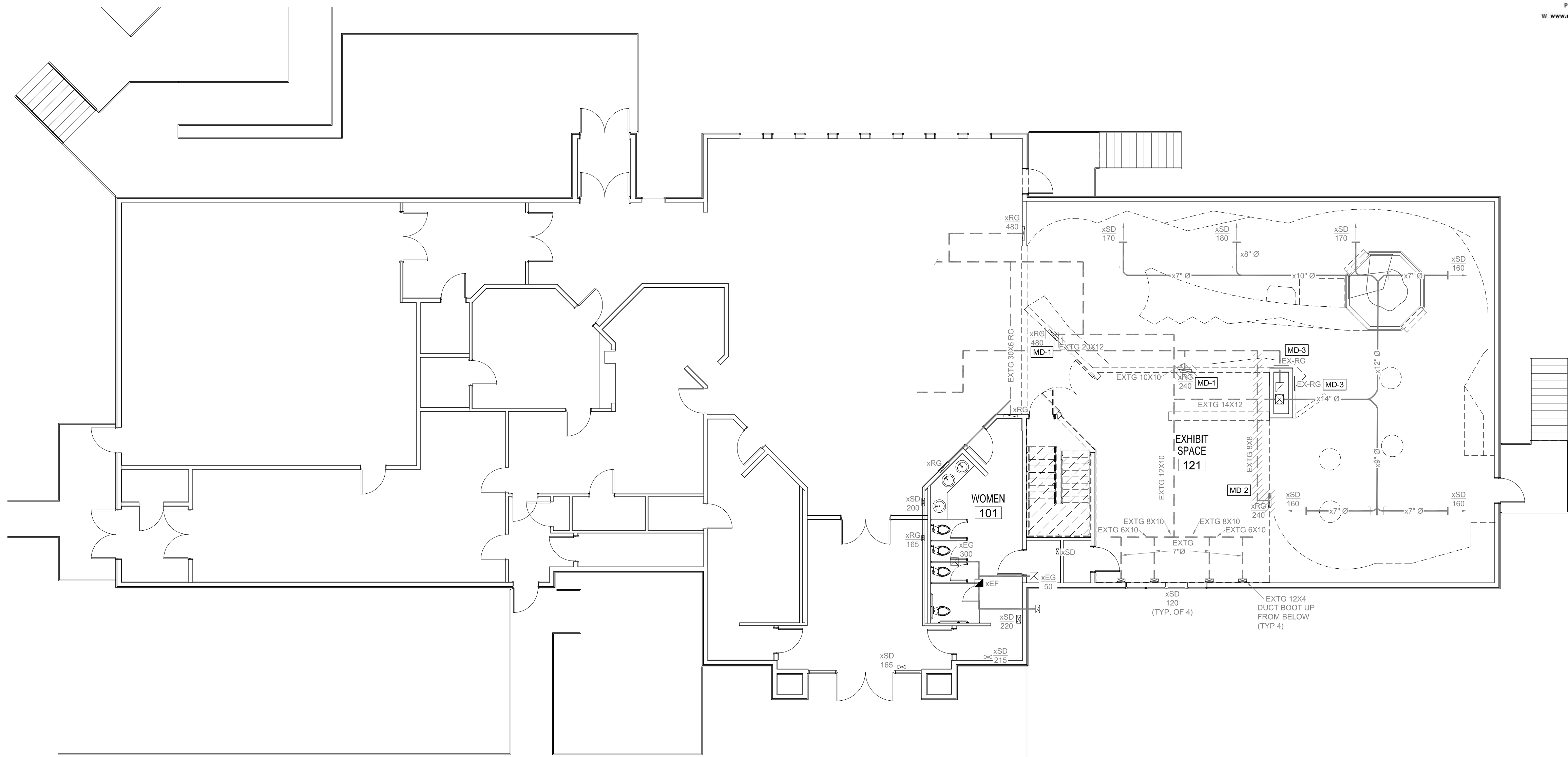
PLUMBING FLOOR PLAN
SCALE: 1/4" = 1'-0"

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Design	WDH
PMPA	WDH
Drawn	WDH
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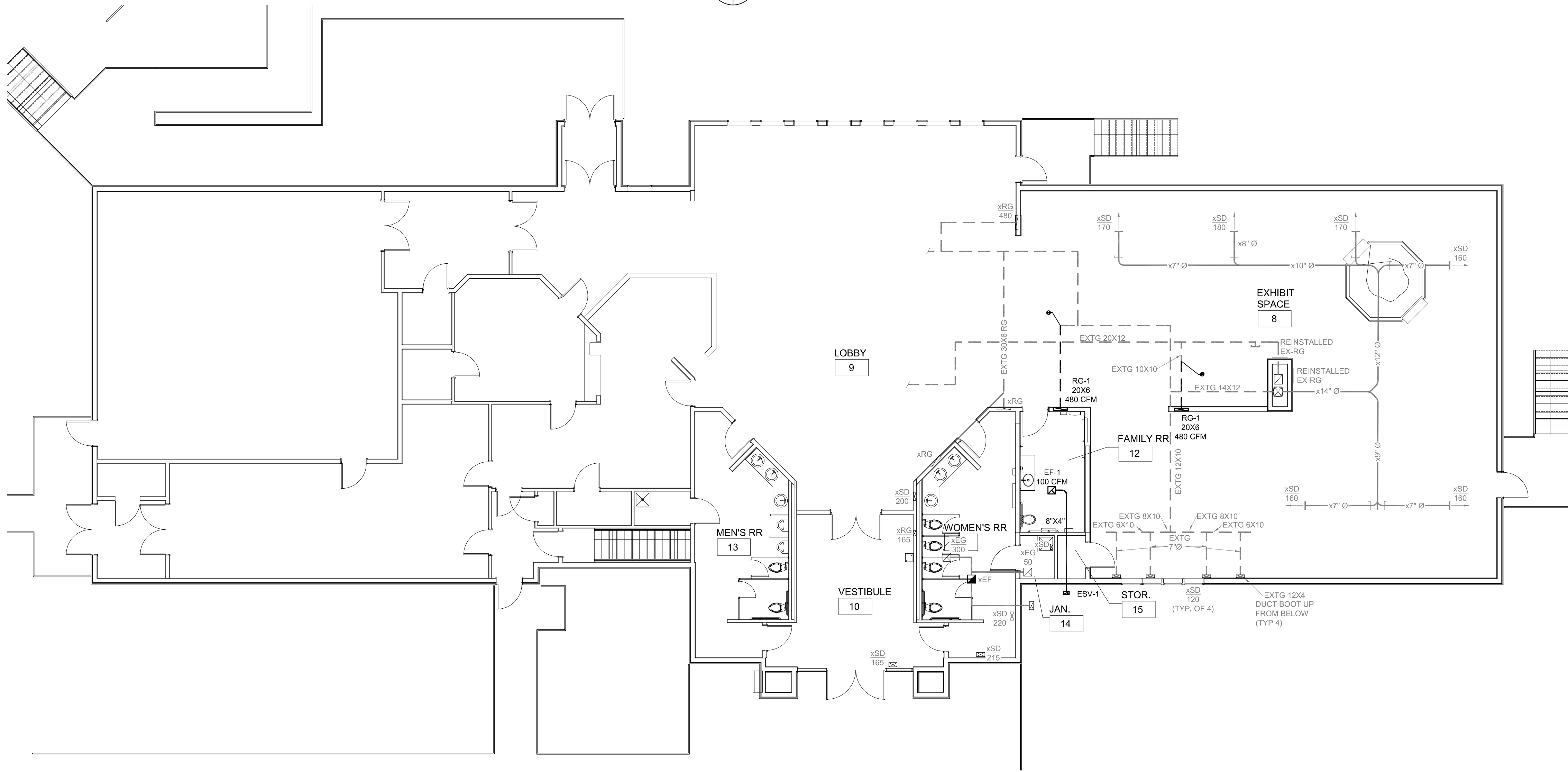
MECHANICAL
FLOOR PLAN

MO-1

DEMOLITION KEYED NOTES	
MD-1	REMOVE EXISTING RETURN GRILLE AND DUCTWORK DOWN TO BELOW. PREPARE TO EXTEND DUCT TO NEW RETURN GRILLE LOCATION.
MD-2	REMOVE EXISTING RETURN GRILLE AND DUCTWORK BACK TO MAIN, AS SHOWN, AND CAP.
MD-3	RETURN GRILLE TO BE REMOVED, TO ALLOW FOR INSTALLATION OF NEW PLYWOOD/GYP. FURRING AND THEN REINSTALLED. MODIFY EXISTING AS NEEDED TO MAINTAIN GRILLE. VERIFY LOCATION IN FIELD.



MECHANICAL DEMOLITION FLOOR PLAN
SCALE: 1/8" = 1'-0"



MECHANICAL FLOOR PLAN
SCALE: 1/8" = 1'-0"

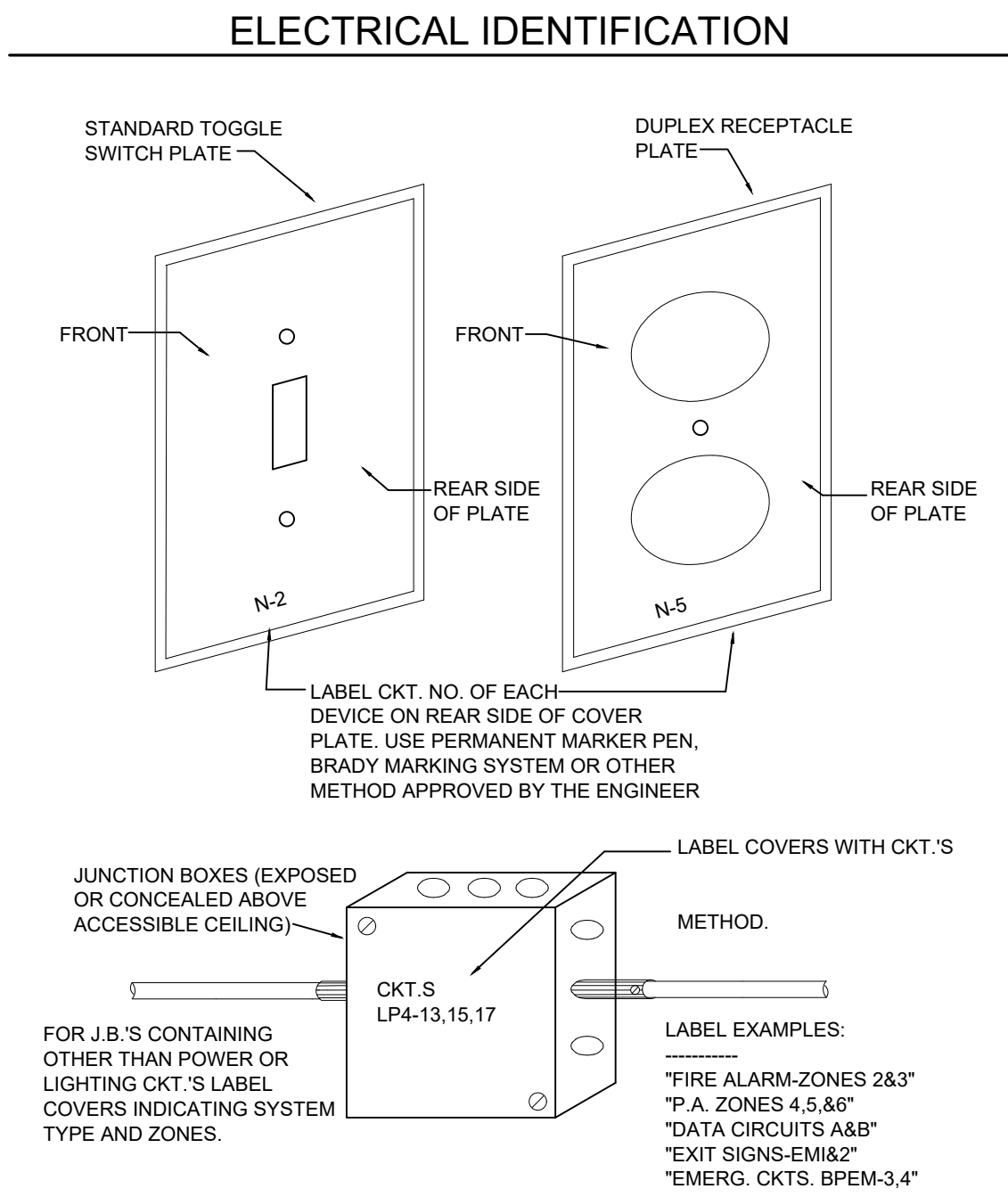
EXHAUST FAN SCHEDULE										
TAG	MANUFACTURER & MODEL NO.	LOCATION	AIRFLOW (CFM)	E.S.P. (IN W.G.)	SOUND LEVEL (SONES)	ELECTRICAL			CONTROL DATA	OPTIONS
						VOLTAGE	W	FLA		
EF-1	GREENHECK SPA110	FAMILY RR 12	100	0.25	0.5	115/60/1φ	17.7	0.16	WITH LIGHTS	

DIFFUSER AND GRILLE SCHEDULE							
TAG	DESCRIPTION	MANUFACTURER & MODEL	SIZE (INCHES)	VOLUME DAMPER (TYPE, LOCATION)	MATERIAL	COLOR & FINISH	ACCESSORIES/ NOTE:
RG-1	RETURN AIR GRILLE 30 DEGREE DEFLECTION, 1/2" SPACING	TITUS 25RL	20X8	EXTERNAL	STEEL	#26 WHITE	-
ESV-1	EXHAUST AIR GRILLE SOFFIT EXHAUST SURFACE MOUNT FRAME	TITUS 272FL	8X4	N/A	ALUMINUM	#26 WHITE	-

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Design	DAR
PMPA	DAR
Drawn	DAR
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MECHANICAL
SCHEDULES &
DETAILS

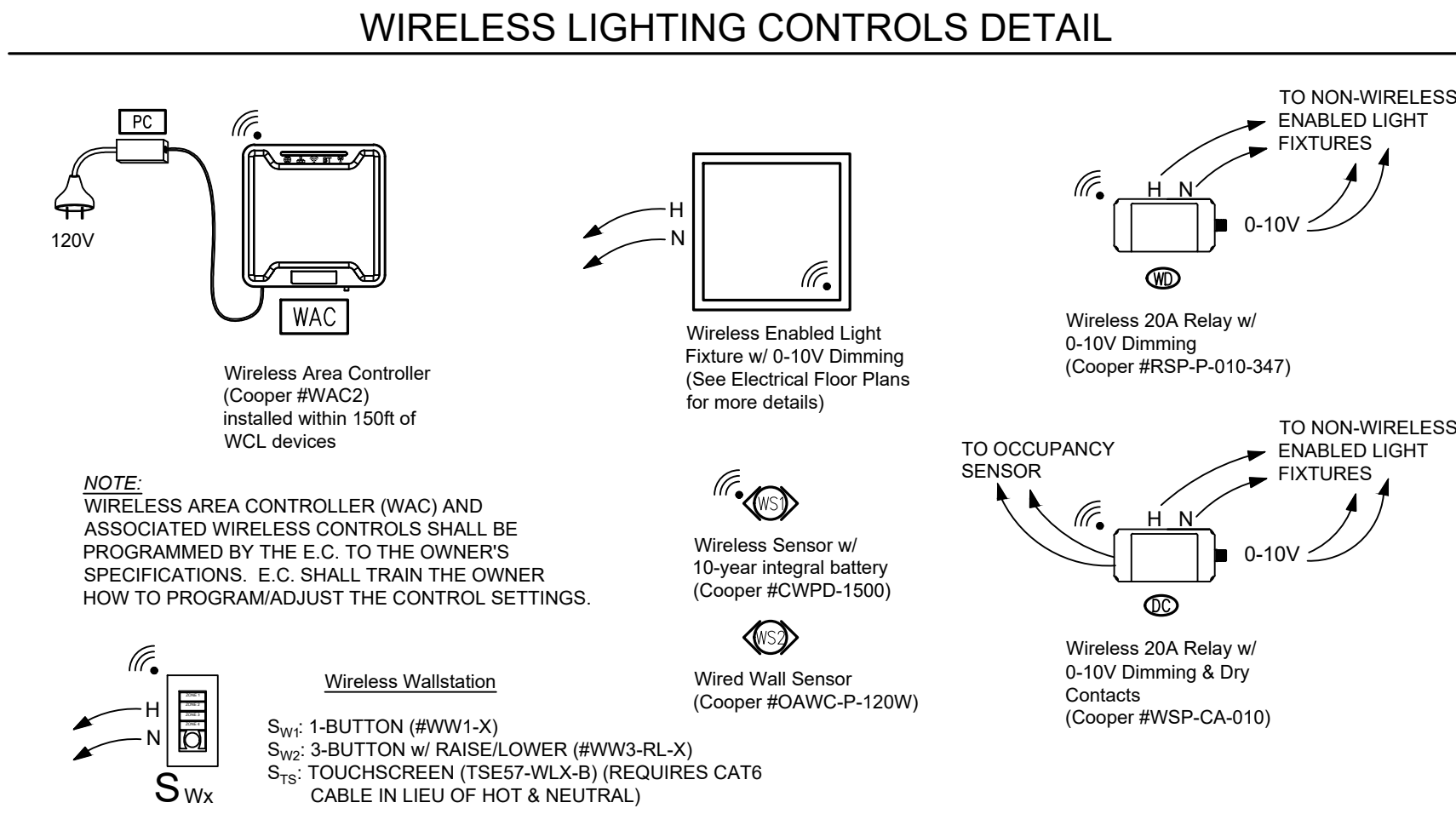
M0-2



WIRE SIZE REQUIREMENTS

NOTE:
BASED ON A MAXIMUM OF 3.6-VOLT DROP (3%) ON 120V CIRCUITS.
WIRES FOR RUNS OVER 100' SHALL BE DETERMINED ON THIS
A MAXIMUM OF A 3% DROP ALLOWED.

BRANCH CIRCUIT AMPS	LENGTH OF RUN - FROM PANEL TO FIRST CONNECTION - FEET										
AMPS	50'	60'	70'	80'	90'	100'	110'	120'	130'		
15	#12	#12	#12	#10	#10	#10	#10	#10	#8		
20	#12	#10	#10	#10	#10	#8	#8	#8	#8		
30	#10	#10	#8	#8	#8	#8	#8	#8	#8		

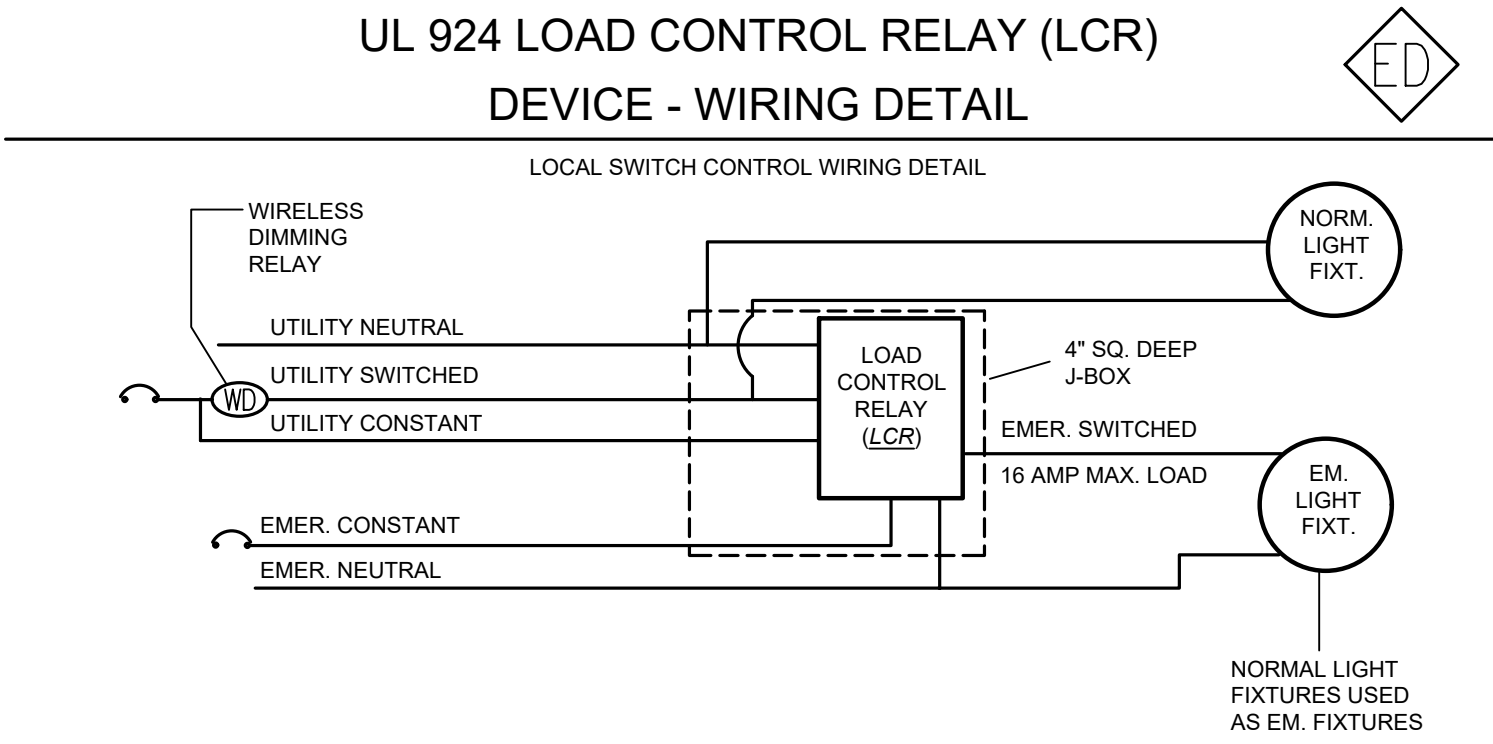


ELECTRICAL ABBREVIATIONS

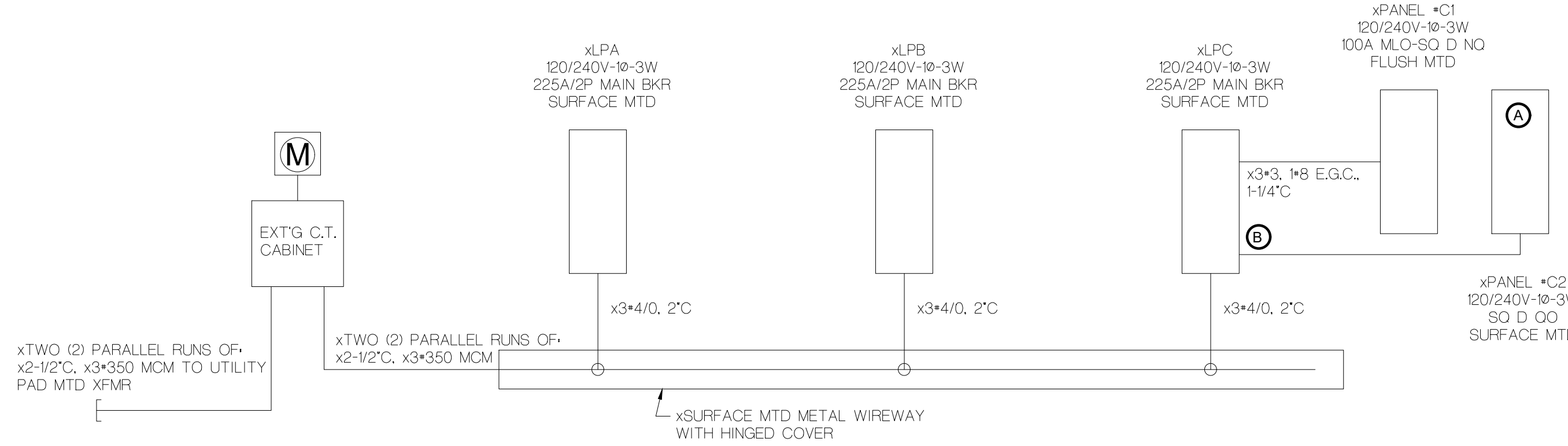
1-21	PANEL 1, CIRCUIT 21	KCMIL	THOUSAND CIRCULAR MILS
A	AMPERES	KVA	KILOVOLT-AMPERES
AC	ABOVE COUNTER	KW	KILOWATTS
ACL	ABOVE CEILING	MC	MECHANICAL CONTRACTOR
AFF	ABOVE FINISH FLOOR	MCB	MAIN CIRCUIT BREAKER
AFG	ABOVE FINISH GRADE	MDP	MAIN DISTRIBUTION PANEL
BC	BELOW COUNTER	MLO	MAIN LUG ONLY
BCL	BELOW CEILING	NL	NIGHT LIGHT
C	CONDUIT	NTS	NOT TO SCALE
C/B, CB	CIRCUIT BREAKER	P	PUMP
CM	CEILING MOUNT	PNL	PANEL
DED	DEDICATED	PS	PRIMARY SWITCH
DF	DEAD FRONT	PT	PRIMARY TRANSFORMER
DWG	DRAWING	PVC	POLYVINYL CHLORIDE
E	EXISTING TO REMAIN	RGS	RIGID GALVANIZED STEEL
EC	ELECTRICAL CONTRACTOR	SM	SURFACE MOUNT
EF	EXHAUST FAN	TR	TAMPER RESISTANT
EGC	EQUIPMENT GROUNDING CONDUCTOR	TVSS	TRANSIENT VOLTAGE SURGE SUPPRESSION
EH	ELECTRIC HEATER	UGRD or U/G	UNDERGROUND
EMT	ELECTRICAL METALLIC TUBING	UON	UNLESS OTHERWISE NOTED
ERV	ENERGY RECOVERY VENTILATOR	V	VOLT
EWC	ELECTRIC WATER COOLER	VFD	VARIABLE FREQUENCY DRIVE
EWI	ELECTRIC WATER HEATER	W	WIRE
G	GROUND	WG	WIREGUARD
GEC	GROUNDING ELECTRODE CONDUCTOR	WP	WEATHERPROOF
GFI	CIRCUIT INTERRUPTER	XFMR	TRANSFORMER
GTD	GENERATOR TRANSFER DEVICE	x	EXISTING
HORZ	HORIZONTAL	xR	EXISTING (TO BE) RELOCATED

ELECTRICAL SYMBOL LEGEND

SYMBOL	DESCRIPTION	NOTES
S	SINGLE POLE TOGGLE SWITCH	MOUNT @ 44" A.F.F. TO BOTTOM OF BOX, UNLESS OTHERWISE NOTED
S ₃	THREE-WAY TOGGLE SWITCH, EXISTING	
S ₃	PASSIVE INFRARED OCC. SENSOR SWITCH (GREENGATE #0NW-P-1001-MV-W)	MOUNT @ 44" AFF TO BOTTOM OF BOX, UNLESS OTHERWISE NOTED
S _W	120V WIRELESS DIGITAL-NETWORK SWITCH (GREENGATE #WW-xy-z)	MOUNT @ 44" A.F.F. TO BOTTOM OF BOX, UON; SEE WIRELESS LTG. CONTROLS DETAIL ON THIS SHEET FOR MORE DETAILS
S _{TS}	DIGITAL-NETWORK TOUCHSCREEN SWITCH (GREENGATE #TS67-WLX-B) REQUIRES CAT6 CABLE	MOUNT @ 44" A.F.F. TO BOTTOM OF BOX, UON; SEE WIRELESS LTG. CONTROLS DETAIL ON THIS SHEET FOR MORE DETAILS
FAN	FAN CONTROL DIAL, EXISTING	TO BE RELOCATED, SEE SHEET ED-1
WIRELESS OCCUPANCY SENSOR		SEE DETAILS ON THIS SHEET FOR TYPE; SEE WIRELESS LTG. CONTROLS DETAIL ON THIS SHEET FOR MORE DETAILS.
DESIGNATES WIRELESS DIGITAL NETWORK FUTURE/DEVICE		SEE LIGHT FIXTURE SCHEDULE FOR TYPES AND WIRELESS LIGHTING CONTROLS DETAIL, THIS SHEET, FOR MORE INFORMATION
DIGITAL NETWORK WIRELESS AREA CONTROLLER (EXISTING GREENGATE #WAC-120)		SEE DETAIL ON THIS SHEET FOR TYPE
DIGITAL NETWORK RELAY WITH 0-10V DIMMING		SEE DETAIL ON THIS SHEET FOR TYPE
DIGITAL NETWORK RELAY WITH 0-10V DIMMING WITH DRY CONTACTS		SEE DETAIL ON THIS SHEET FOR TYPE
EMERGENCY LTG. UL924 LOAD CONTROL RELAY ED-LVS CONTROLS #EPC-1-D		SEE LIGHT FIXTURE SCHEDULE FOR TYPES
2x2' FIXTURE, TYPE X		SEE LIGHT FIXTURE SCHEDULE FOR TYPES
2x4' FIXTURE, EXISTING		SEE LIGHT FIXTURE SCHEDULE FOR TYPES
TRACK LIGHTING WITH TYPE X FIXTURES		SEE LIGHT FIXTURE SCHEDULE FOR TYPES
LINEAR FIXTURE, TYPE X		SEE LIGHT FIXTURE SCHEDULE FOR TYPES
RECESSED DOWNLIGHT FIXTURE, TYPE X		SEE LIGHT FIXTURE SCHEDULE FOR TYPES
PADDLE FAN, EXISTING		
EXIT SIGN, TYPE X		SEE LIGHT FIXTURE SCHEDULE FOR TYPES
EMERGENCY EGRESS LIGHT FIXTURE, EXISTING		
TAMPER RESISTANT DUPLEX OUTLET - 20 AMP		MOUNT @ 16" A.F.F. TO BOTTOM OF BOX, UNLESS OTHERWISE NOTED
TAMPER RESISTANT DOUBLE DUPLEX (QUAD) OUTLET - 20 AMP		MOUNT @ 16" A.F.F. TO BOTTOM OF BOX, UNLESS OTHERWISE NOTED
TAMPER RESISTANT DUPLEX OUTLET - 20 AMP - GROUND FAULT		MOUNT @ 16" A.F.F. TO BOTTOM OF BOX, UNLESS OTHERWISE NOTED
WR TR GFCI DUPLEX OUTLET WITH WEATHERPROOF IN-USE COVER, EXISTING		
FLUSH-FLOOR BOX		WIREMOLD #EFB45-EFB8-MB-EFB45BCTC-XX WITH A MINIMUM OF TWO (2) TAMPER RESISTANT DUPLEX RECEPTACLES AND ONE (1) 1" C STUBBED TO NEAREST ACCESSIBLE CEILING. COORDINATE EXACT REQUIREMENTS WITH EXHIBIT DESIGNERS. E.C. TO PROVIDE AND INSTALL ALL NECESSARY ACCESSORIES FOR A COMPLETE FLOORBOX ASSEMBLY. XX DENOTES STANDARD FINISH AS SELECTED BY THE ARCHITECT. ALL CONDUIT STUBS ARE TO HAVE PULL STRINGS INSTALLED IN THEM.
SINGLE-PHASE SPECIAL PURPOSE OUTLET		



EXISTING ELECTRICAL ONE LINE DIAGRAM



REVISED LOAD CALCULATIONS

EXISTING 600 AMP - 120/240V-1Ø-3W SERVICE

4*EXT'G PEAK DEMAND	36.4 KW	151.5 A
+25% PER NEC 220.87	91 KW	373.9 A
REMOVED LOAD:	(7.8 KW)	(32.6 A)
ADDED LOAD:	8.2 KW	34.3 A
TOTAL REVISED LOAD:	45.9 KW	191.3 A

* DENOTES EXISTING CONNECTED LOAD OBTAINED FROM EXT'G 2025 RENOVATION BID/PLAN REVIEW SET.

ELECTRICAL RISER KEY NOTES

- (A) EXISTING PANEL TO BE RELOCATED, AS SHOWN ON THE PROPOSED FLOOR PLAN. THE EXISTING BRANCH CIRCUIT CONDUCTORS THAT ARE TO REMAIN ARE TO BE EXTENDED/RECONFIGURED AS REQUIRED.
- (B) EXISTING FEEDERS TO BE EXTENDED/RECONFIGURED TO FEED EXISTING, RELOCATED xPANEL #C2. E.C. SHALL VERIFY THAT xPANEL #C FEEDS xPANEL #C2 IF THE SOURCE IS DIFFERENT THAN xPANEL #C, REFEEED xPANEL #C2 FROM THAT SOURCE AND DOCUMENT ALL CHANGES ON THE FINAL AS-BUILT DRAWINGS.

PROPOSED LIGHT FIXTURE SCHEDULE

Type	Mount	Description	Lumen	Temp (K)	CRI	Watts	Volt	Dim	Manufacturer	Catalog #	Notes
C	SURFACE / CEILING	2' x 2' LED FLAT PANEL	3,200	3000	80	31.2	UNV	0-10v	Metalux	22FPX-32-L830-HCD-WPS with FPXSURF22	Fixture to include Wavelinx Wireless controls. E.C. to include surface mount kit.
CE	SURFACE / CEILING	2' x 2' LED FLAT PANEL	3,200	3000	80	31.2	UNV	0-10v	Metalux	22FPX-32-EL14W-L830-HCD-WPS with FPXSURF22	E.C. to include surface mount kit. Fixture to include Wavelinx Wireless controls and 90 minute, 14 watt integral emergency battery backup.
E	SURFACE / CEILING	14" ROUND SURFACE MOUNT LED DOWNLIGHT	2,310	3000	90	26.1	120-277	0-10v	HALO	SMX14RLSFS010	Selectable CCT - set to 3000K. Same as type E but with connection to an emergency inverter through an EPC device.
EE	SURFACE / CEILING	14" ROUND SURFACE MOUNT LED DOWNLIGHT	2,310	3000	90	26.1	120-277	0-10v	HALO	SMX14RLSFS010	Selectable CCT - set to 3000K. Same as type E but with connection to an emergency inverter through an EPC device.
EX	Universal	Exit / EM Combo Unit	---	---	---	---	120/277	---	Isolite	RLP-R-U-WH-MTEB-SD	Combo Unit - White Frame / Red Letters
F	SURFACE / CEILING	1' x 4' LED FLAT PANEL	3,176	3,000	80	25.2	UNV	0-10v	Metalux	14FPX-42-L830-HCD-WPS with FPXSURF14	Fixture to include Wavelinx Wireless controls. E.C. to include surface mount kit.
G	WALL / SURFACE	ARCHITECTURAL UPLIGHT	23,920	3000	80	184.0	120-277	0-10v	SPI	EEV12297-L184W-120-277V-3000K-DF_80-DF_IND-XX	XX denotes Architect shall select the fixture finish from the standard list of finishes.
GE	WALL / SURFACE	ARCHITECTURAL UPLIGHT	23,920	3000	80	184.0	120-277	0-10v	SPI	EEV12297-L184W-120-277V-3000K-DF_80-EMR-DAMP-DF_IND-XX	Same as Type G fixture but with connection to an emergency inverter through an EPC device.
J	TRACK	TRACK MOUNTED DOWNLIGHTS	2,270	3000	90	18.0	120	Lead / Trail	BRUCK	LX-PRO-SW-25LM-30K-90-DZ2-CL-NA-WH-ECOH-120-ELV1	Include Halo #L917P slope adapters for 25% of the fixtures.
J1	SURFACE / CEILING	TRACK MOUNTED DOWNLIGHTS AND TRACK	2,270	3000	90	18.0	120	Lead / Trail	HALO/BRUCK	Three (3) track heads LX-PRO-SW-25LM-30K-90-DZ2-CL-NA-BK-ECOH-120-ELV1, two (2) track heads LX-PRO-SW-25LM-30K-90-5003-CL-NA-BK-ECOH-120-ELV1, one (1) L652MB-LC901CB300MB, three (3) L592MB, and one (1) DE600MB	Include and install all required accessories for a complete and functional track system. 300W-120V current limiter. Pendant kit, confirm pendant length with Architect.
K	WALL	LED VANITY LIGHT	3,000	3000	80	29.0	120-277	0-10v	Shaper	605-25-W-L3/830-UNV-XX	XX denotes Architect to select the fixture finish from the standard list of finishes.
INV	WALL / SURFACE	750kVA Emergency Lighting Inverter	---	---	---	750W	120V	---	Myers	LV-4-B2006-LVST	Wall mounted inverter; include LVS #EPC-D-FL-S devices as shown on the electrical floor plan.

ELECTRICAL
SCHEDULES,
DETAILS, & RISER

E0-0

GENERAL ELECTRICAL DEMOLITION NOTES

ELECTRICAL DEMOLITION NOTES

- SEE THIS SHEET FOR ELECTRICAL DEMOLITION KEY NOTE LEGEND.
- ELECTRICAL CONTRACTOR (E.C.) SHALL REMOVE ALL LIGHT FIXTURES AS INDICATED ON DRAWINGS. IF ANY LIGHT FIXTURE BALLASTS ARE FOUND TO CONTAIN PCBs, THE ELECTRICAL CONTRACTOR SHALL REMOVE BALLAST FROM LIGHT FIXTURES AND DISPOSE OF IN APPROVED DISPOSAL CONTAINERS PROVIDED BY THE OWNER. THE OWNER SHALL BE RESPONSIBLE FOR PROPER DISPOSAL PER LOCAL, STATE, AND FEDERAL LAWS AND PAY FOR ALL ASSOCIATED COSTS OF DISPOSAL.
- E.C. SHALL BE RESPONSIBLE FOR DISPOSAL OF REMAINING LUMINAIRE PARTS & ANY NON-PCB FIXTURES PER LOCAL, STATE, AND FEDERAL REGULATIONS AND PAY FOR ALL ASSOCIATED COSTS OF DISPOSAL.
- CAUTION!!!
E.C. SHALL DISCONNECT AND REMOVE ALL ELECTRICAL EQUIPMENT, (WHICH INCLUDES BUT IS NOT LIMITED TO DEVICES, FIXTURES, WIRING (CIRCUITRY), CABLING, CONDUIT, ETC.), AS DESCRIBED AND SHALL GIVE THE OWNER AN OPPORTUNITY TO KEEP DEMOLISHED ELECTRICAL EQUIPMENT PRIOR TO THEM BEING DISCARDED.
- EXISTING ELECTRICAL AND LOW VOLTAGE DEVICES SHOWN ON PLANS WITH AN "XRP" ARE TO BE REPLACED WITH NEW DEVICES. AS INDICATED, REUSE EXISTING CIRCUITRY (WIRING) AND CONDUIT AND PROVIDE NEW AS REQUIRED TO CONNECT TO ELECTRICAL AND LOW VOLTAGE DEVICES PER THE NEW ELECTRICAL FLOOR PLANS. PROVIDE BLANK COVER PLATES FOR EMPTY GANG BOXES.
- EXISTING ELECTRICAL AND LOW VOLTAGE DEVICES SHOWN ON PLANS WITH AN "E-R" ARE TO BE RELOCATED, AS INDICATED. REUSE EXISTING CIRCUITRY (WIRING) AND CONDUIT AND PROVIDE NEW AS REQUIRED TO CONNECT TO ELECTRICAL AND LOW VOLTAGE DEVICES PER THE NEW ELECTRICAL FLOOR PLANS. PROVIDE BLANK COVER PLATES FOR EMPTY GANG BOXES.
- DEVICES SHOWN ON THE NEW FLOOR PLANS WITH AN ADJACENT "E" INDICATE THE DEVICE IS EXISTING FROM OLD DRAWINGS OR A TAKEOFF. E.C. SHALL FIELD VERIFY ACTUAL DEVICE LOCATIONS WHICH ARE TO REMAIN.

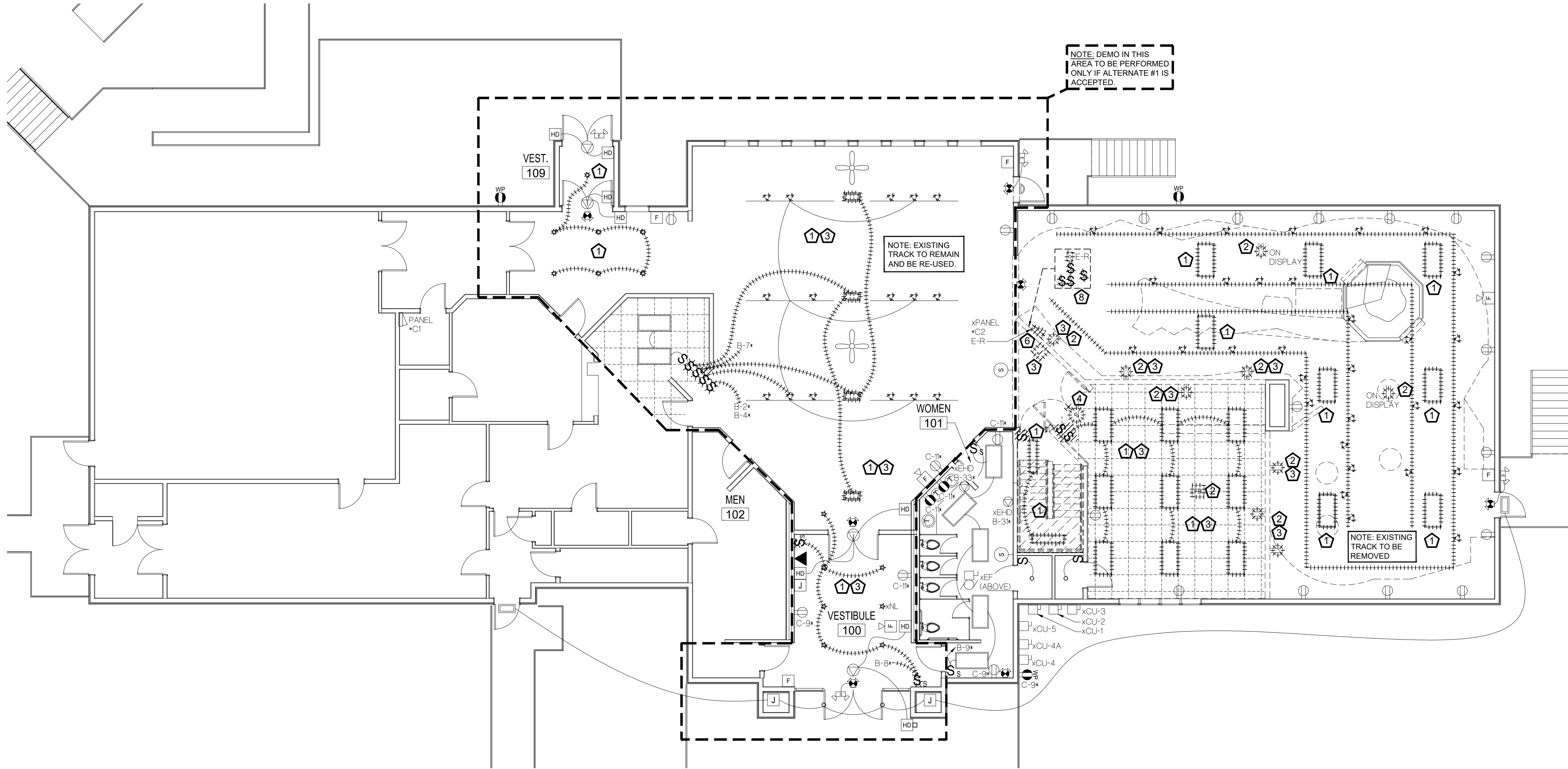
- FOR THE ELECTRICAL EQUIPMENT TO BE DISCONNECTED AND REMOVED, THE OWNER SHALL BE GIVEN THE OPPORTUNITY OF HAVING ANY OF IT TURNED OVER TO THEM.
- DISCONNECT AND REMOVE ALL EXISTING LIGHTS AND CONTROLS IN THIS AREA, AS INDICATED. REMOVE EXISTING CIRCUITRY (WIRING) AND CONDUIT BACK TO SOURCE AND DISCARD, UNLESS IT IS SHOWN TO BE REUSED. INSTALL NEW LIGHTS AND CONTROLS AS SHOWN ON NEW PROPOSED FLOOR PLANS. REUSE EXISTING CIRCUIT, IF SHOWN, OR CIRCUIT TO PANEL WITH NEW CIRCUIT AS SHOWN ON NEW PROPOSED FLOOR PLANS. PROVIDE BLANK COVER PLATES FOR EMPTY GANG BOXES.
 - DISCONNECT AND REMOVE ALL EXISTING RECEPTACLES AND POWER DEVICES IN THIS AREA AS INDICATED. REMOVE EXISTING CIRCUITRY (WIRING) AND CONDUIT BACK TO SOURCE AND DISCARD. INSTALL NEW RECEPTACLES AND POWER DEVICES AS SHOWN ON NEW PROPOSED FLOOR PLANS. PROVIDE BLANK COVER PLATES FOR EMPTY GANG BOXES.
 - DISCONNECT AND REMOVE ELECTRICAL DEVICES WHICH WILL INTERFERE WITH THE DEMOLITION AND REMOVAL OF WALLS, FLOORING, AND/OR CEILING AS DESCRIBED IN THE ARCHITECTURAL DEMOLITION PLANS. REMOVE EXISTING CIRCUITRY (WIRING) AND CONDUIT BACK TO PANEL AND DISCARD.
 - DISCONNECT, REMOVE, AND RELOCATE ALL EXISTING DATA, TELEPHONE/PAGING, TELEVISION, CLOCK, AND FIRE ALARM SYSTEMS DEVICES, WIRING, AND EQUIPMENT, AS INDICATED. REUSE EXISTING EMPTY GANG BOXES AS INDICATED ON THE NEW FLOOR PLAN. PROVIDE BLANK COVER PLATES FOR ALL REMAINING EMPTY GANG BOXES. PROVIDE NEW BOXES AND CONDUIT AS SHOWN ON NEW PROPOSED FLOOR PLANS. NEW WIRING AND TERMINATIONS BY OWNER'S CONTRACTOR.
 - DISCONNECT, REMOVE, AND RELOCATE EXISTING ELECTRIC HAND DRYERS. PROVIDE BLANK COVER PLATES FOR ALL REMAINING EMPTY GANG BOXES. PROVIDE NEW BOXES AND CONDUIT AS SHOWN ON THE NEW PROPOSED FLOOR PLANS. NEW WIRING AND TERMINATIONS BY OWNER'S CONTRACTOR.
 - DISCONNECT, REMOVE, AND RELOCATE EXISTING PANELBOARD. EXTEND/RECONFIGURE EXISTING FEEDERS AS NECESSARY TO RE-FEED RELOCATED PANEL. EXTEND/RECONFIGURE ALL EXISTING BRANCH CIRCUITS THAT ARE TO REMAIN.
 - DISCONNECT, REMOVE, AND PROTECT FOR REINSTALLATION EXISTING LIGHT FIXTURES WHICH WILL INTERFERE WITH THE INSTALLATION OF THE NEW WATER PIPING. RE-INSTALL IN EXISTING LOCATION.
 - E.C. TO VIF THE LOADS CONTROLLED BY THE TOGGLE SWITCHES. IF THE LOADS ARE TO REMAIN, DISCONNECT, REMOVE, AND RELOCATE SWITCHES TO RECEPTION. OTHERWISE DISCONNECT AND REMOVE ALL EXISTING CONTROLS IN THIS AREA, AS INDICATED. REMOVE EXISTING CIRCUITRY (WIRING) AND CONDUIT BACK TO SOURCE AND DISCARD.

EXISTING PANEL #A									
VOLTAGE: 120/240V-1PH-3W				MOUNTING: SURFACE					
AMPERAGE: 225 MCB				TYPE: SQUARE D NQOOD					
FED FROM: EXTG WIREWAY									
KEY	TR	CB/P	DESCRIPTION	LOAD	P	LOAD	DESCRIPTION	CB/P	TR KEY
1	201		CRAWL SPACE LIGHTS	—	A	—	BACK DECK LIGHTS	201	2
3	201		BASEMENT LIGHTS	—	B	—		201	4
5	201		CRAWL SPACE JUNCTION BOX	—	A	—	WALKWAY LIGHTS	201	6
7	201		CRAWL SPACE JUNCTION BOX	—	B	—		201	8
9	201		CRAWL SPACE JUNCTION BOX	—	A	—	WALKWAY LIGHTS	201	10
11	201		CRAWL SPACE JUNCTION BOX	—	B	—		201	12
13	151		FU-1	1219	A	—	FU-3	201	14
15	201		FU-5	—	B	—	FU-4	201	16
17	201		FU-4A	—	A	—	BASEMENT RECEPPTS	201	18
19	201		FU-2	—	B	3706	SE GUTTER & ROOF MELT	201	20
21	201		AUDITORIUM LIGHTS	670	A	3706		201	22
23	201		AUDITORIUM LIGHTS	670	B	—	SPARE	201	24
25	201		SPARE	—	A	—	OUTSIDE BLDG LTS & DISPLAY CASE	201	26
27	201		SPARE	—	B	—	SPARE	201	28
29	201		TELEPHONE BOARD RECEPPTS	—	A	—	UNKNOWN EXTG CIRCUIT	201	30
31	201		TIMER FOR WALKWAY	—	B	—	UNKNOWN EXTG CIRCUIT	201	32
33	602		WELL PUMP	—	A	—	WATER HEATER	201	34
35	602		WELL PUMP	—	B	—		201	36
37	201		BACK DECK RECEPPTS/POND	—	A	—	UNKNOWN EXTG CIRCUIT	201	38
39	201		STAIRWAY LTS & GFI BREAKER TEST	—	B	—	UNKNOWN EXTG CIRCUIT	201	40
41	201		UNKNOWN EXTG CIRCUIT	—	A	—	UNKNOWN EXTG CIRCUIT	201	42

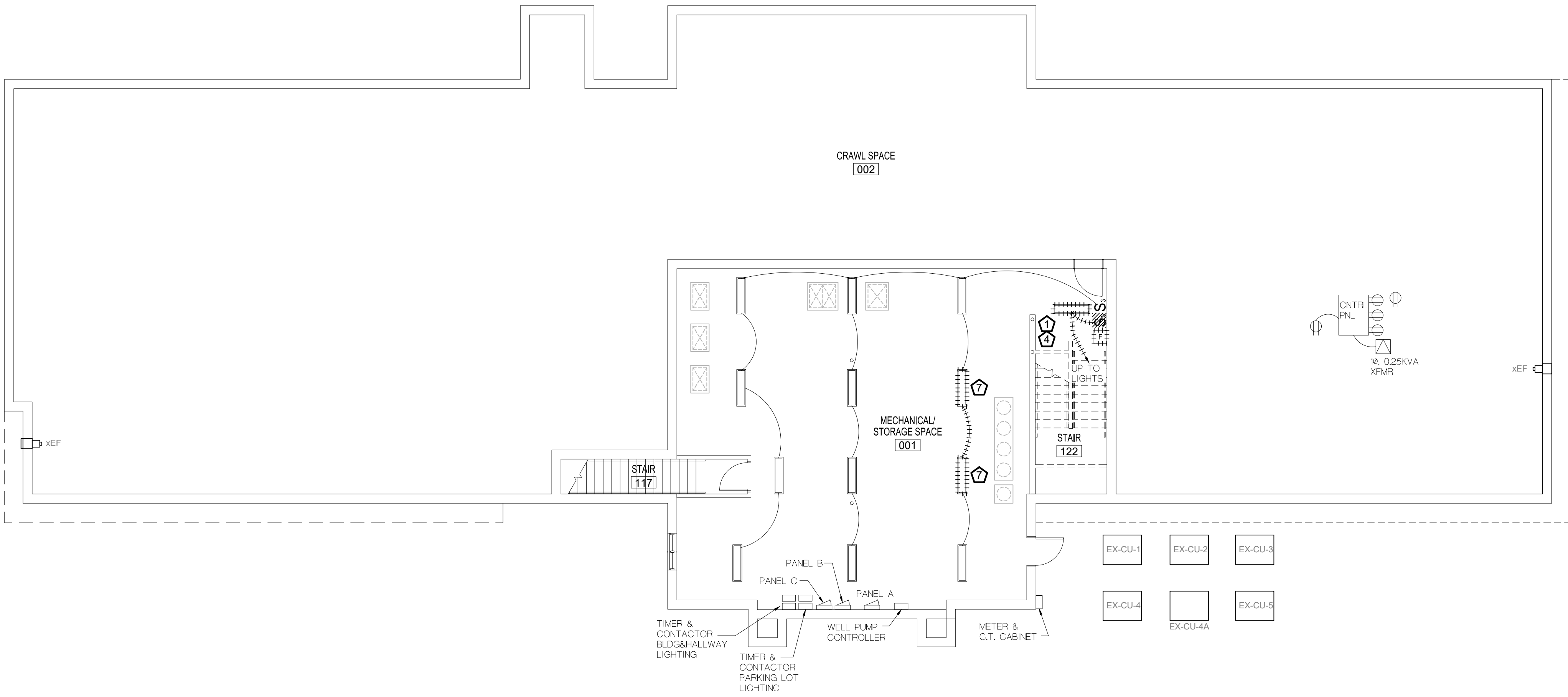
EXISTING PANEL #B									
VOLTAGE: 120/240V-1PH-3W				MOUNTING: SURFACE					
AMPERAGE: 225 MCB				TYPE: SQUARE D NQOOD					
FED FROM: EXTG WIREWAY									
KEY	TR	CB/P	DESCRIPTION	LOAD	P	LOAD	DESCRIPTION	CB/P	TR KEY
1	201		MULTI-PURPOSE ROOM LIGHTS	—	A	—	LOBBY TRACK LIGHTS	201	2
3	201		OFFICE LIGHTS	—	B	—	LOBBY TRACK LIGHTS	201	4
5	201		GIFT SHOP LIGHTS	—	A	—	MEN'S REST ROOM LIGHTS	201	6
7	201		LOBBY LIGHTS	—	B	—	FRONT VESTIBULE LIGHTS	201	8
9	201		WOMEN'S REST ROOM LIGHTS	—	A	—	EXHIBIT SPACE LIGHTS (TRACK)	201	10
11	201		EXHIBIT SPACE LIGHTS	—	B	—	EXHIBIT TRACK LIGHTS	201	12
13	201		EXHIBIT TRACK LIGHTS	—	A	—	UNKNOWN EXTG CIRCUIT	201	14
15	201		EXHIBIT TRACK LIGHTS	—	B	—	UNKNOWN EXTG CIRCUIT	201	16
17	201		EXHIBIT TRACK LIGHTS	—	A	—	UNKNOWN EXTG CIRCUIT	201	18
19	201		EXHIBIT TRACK LIGHTS	—	B	—	UNKNOWN EXTG CIRCUIT	201	20
21	201		EXHIBIT TRACK LIGHTS	—	A	—	CONFERENCE ROOM LIGHTS	201	22
23	201		UNKNOWN EXTG CIRCUIT	—	B	—	FIRE ALARM PANEL	201	24
25	201		UNKNOWN EXTG CIRCUIT	—	A	—	SECURITY PANEL	201	26
27	201		OFFICE 117 RECEPTACLES	—	B	—	MEN'S ROOM HAND DRYER	301	28
29	201		OFFICE 117 - COPIER	—	A	—	MEN'S ROOM HAND DRYER	301	30
31	301		WOMEN'S ROOM HAND DRYER	—	B	—		301	32
33	301		WOMEN'S ROOM HAND DRYER	—	A	—	UH-1 (SOUTH END)	201	34
35	201		PARKING LOT TIMER	—	B	—		201	36
37	201		UNKNOWN EXTG CIRCUIT	—	A	—	UH-1 (NORTH END)	201	38
39	202		UNKNOWN EXTG CIRCUIT	—	B	—		201	40
41	202		PARKING LOT LIGHTS	—	A	—	PARKING LOT LIGHTS	202	42

EXISTING PANEL #C1									
VOLTAGE: 120/240V-1PH-3W				MOUNTING: SURFACE					
AMPERAGE: 100 MLO				TYPE: SQUARE D TYPE NQ PANELBOARD					
FED FROM: EXISTING PANEL #C				NEMA 1 ENCLOSURE					
KEY	TR	CB/P	DESCRIPTION	LOAD	P	LOAD	DESCRIPTION	CB/P	TR KEY
1	—	—	SPACE	—	A	1000	VESTIBULE 111 - ADA DOORS	201	2
3	—	—	SPACE	—	B	1000	VESTIBULE 108 - ADA DOORS	201	4
5	—	—	SPACE	—	A	720	STORE OFFICE 114B RECEPTACLES	201	6
7	201		REFRIGERATOR RECEPT. 118	1000	B	—	SPARE	201	8
9	201		SPARE	—	A	—	SPARE	201	10
11	201		SPARE	—	B	—	SPARE	201	12
13	201		SPARE	—	A	—	SPARE	201	14
15	—	—	SPACE	—	B	—	SPACE	—	16
17	—	—	SPACE	—	A	—	SPACE	—	18
19	—	—	SPACE	—	B	—	SPACE	—	20

EXISTING PANEL #C2									
VOLTAGE: 120/240V-1PH-3W				MOUNTING: SURFACE					
AMPERAGE: 80A MLO				TYPE: SQUARE D QO LOAD CENTER					
FED FROM: EXISTING PANEL #C (VIF)									
KEY	TR	CB/P	DESCRIPTION	LOAD	P	LOAD	DESCRIPTION	CB/P	TR KEY
1	201		TRACK LGTS EAST WALL	—	A	—	IMPACT DISPLAY	201	2
3	201		TRACK LGTS EAST WALL	—	B	—	TRACK LTS MIDDLE FROM S. WALL	201	4
5	201		TRACK LGTS SOUTH WALL	—	A	—	UNKNOWN LOAD	201	6
7	201		MANAGEMENT FORESTRY DISP LGTS	—	B	—	TRACK LGTS MIDDLE FROM N. WALL	201	8
9	201		SAW DISPLAY	—	A	—	TRACK LGTS W. WALL	201	10
11	201		CEILING FANS	—	B	—	UNKNOWN LOAD	201	12
13	—	—	SPACE	—	A	—	TRACK LGTS MIDDLE FROM E. WALL	201	14
15	—	—	SPACE	—	B	—	WOLF DISPLAY/TREE	201	16
17	—	—	SPACE	—	A	—	SPACE	—	18
19	—	—	SPACE	—	B	—	SPACE	—	20
21	—	—	SPACE	—	A	—	SPACE	—	22
23	—	—	SPACE	—	B	—	SPACE	—	24



ELECTRICAL DEMOLITION MAIN FLOOR PLAN
SCALE: 1/8" = 1'-0"



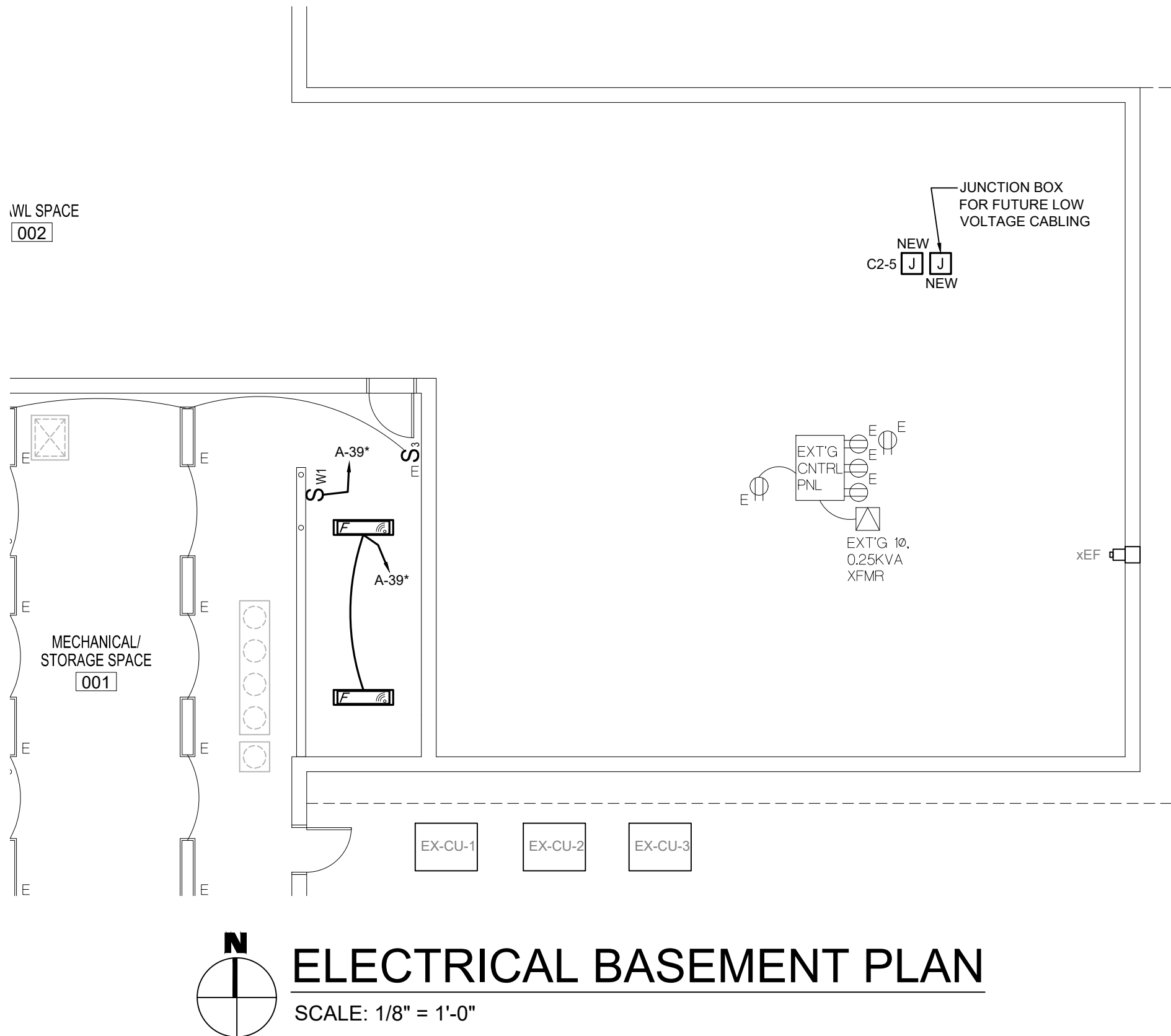
ELECTRICAL DEMOLITION BASEMENT FLOOR PLAN
SCALE: 1/8" = 1'-0"

REVISED PANEL #A									
VOLTAGE: 120/240V-1PH-3W				MOUNTING: SURFACE					
AMPERAGE: 225 MCB				TYPE: SQUARE D NQOD					
FED FROM:									
KEY/CIR	CB/P	DESCRIPTION	LOAD	P	LOAD	DESCRIPTION	CB/P	CIR	KEY
1	20/1	CRAWL SPACE LIGHTS	—	A	—	BACK DECK LIGHTS	20/2	2	
3	20/1	BASEMENT LIGHTS	—	B	—			4	
5	20/1	CRAWL SPACE JUNCTION BOX	—	A	—	WALKWAY LIGHTS	20/2	6	
7	20/1	CRAWL SPACE JUNCTION BOX	—	A	—				
9	20/1	CRAWL SPACE JUNCTION BOX	—	B	—	WALKWAY LIGHTS	20/2	10	
11	20/1	CRAWL SPACE JUNCTION BOX	—	B	—			12	
13	15/1	FU-1	1219	A	FU-3		20/1	14	
15	20/1	FU-5	—	B	FU-4		20/1	16	
17	20/1	FU-4A	—	A	—	BASEMENT RECEP	20/1	18	
19	20/1	FU-2	—	B	3706	SE GUTTER & ROOF MELT	40/2	20	
21	20/1	AUDITORIUM LIGHTS	670	A	3706		20/1	22	
23	20/1	AUDITORIUM LIGHTS	670	B	—	SPARE	20/1	24	
25	20/1	SPARE	—	A	—	OUTSIDE BLDG LGTS & DISPLAY CAS	20/1	26	
27	20/1	SPARE	—	B	—	SPARE	20/1	28	
29	20/1	TELEPHONE BOARD RECEP	—	A	—	UNKNOWN EXTG CIRCUIT	20/1	30	
31	20/1	TIMER FOR WALKWAY	—	B	—	UNKNOWN EXTG CIRCUIT	20/1	32	
33	60/2	WELL PUMP	—	A	—	WATER HEATER	20/2	34	
35	—		—	B	—		20/2	36	
37	20/1	BACK DECK RECEP/SPOND	—	A	—	UNKNOWN EXTG CIRCUIT	20/1	38	
39	x20/1	BASEMNT STRG LGTS/GFI BRKR TEST	—	B	—	UNKNOWN EXTG CIRCUIT	20/1	40	
41	20/1	UNKNOWN EXTG CIRCUIT	—	A	—	UNKNOWN EXTG CIRCUIT	20/1	42	

REVISED PANEL #B									
VOLTAGE: 120/240V-1PH-3W				MOUNTING: SURFACE					
AMPERAGE: 225 MCB				TYPE: SQUARE D NQOD					
FED FROM:									
KEY	CIR	CB/P	DESCRIPTION	LOAD	P	LOAD	DESCRIPTION	CB/P	CIR/KEY
1	20/1		MULTI-PURPOSE ROOM LIGHTS	---	A	162	NEW LOBBY TRACK LIGHTS	20/1	2
3	20/1		OFFICE LIGHTS	---	B	162	NEW LOBBY TRACK LIGHTS	20/1	4
5	20/1		GIFT SHOP LGTS, NEWBACK VEST. LGTS	602.7	A	---	MEN'S REST ROOM LIGHTS	20/1	6
7	20/1		NEW LOBBY #9 LIGHTS	1472	B	208.8	NEW FRONT VEST. #10 LIGHTS	20/1	8
9	20/1		WOMEN'S REST ROOM LIGHTS	---	A	---	EXHIBIT SPACE LIGHTS (TRACK)	20/1	10
11	20/1		EXHIBIT SPACE LIGHTS	---	B	---	EXHIBIT TRACK LIGHTS	20/1	12
13	20/1		EXHIBIT TRACK LIGHTS	---	B	---	UNKNOWN EXTG CIRCUIT	20/1	14
15	20/1		EXHIBIT TRACK LIGHTS	---	B	---	UNKNOWN EXTG CIRCUIT	20/1	16
17	20/1		EXHIBIT TRACK LIGHTS	---	A	---	UNKNOWN EXTG CIRCUIT	20/1	18
19	20/1		EXHIBIT TRACK LIGHTS	---	B	---	UNKNOWN EXTG CIRCUIT	20/1	20
21	20/1		EXHIBIT TRACK LIGHTS	---	A	---	CONFERENCE ROOM LIGHTS	20/1	22
23	20/1		UNKNOWN EXTG CIRCUIT	---	B	---	FIRE ALARM PANEL	20/1	24
25	20/1		UNKNOWN EXTG CIRCUIT	---	A	---	SECURITY PANEL	20/1	26
27	20/1		OFFICE 117 RECEPTACLES	---	B	---	MEN'S ROOM HAND DRYER	30/1	28
29	20/1		OFFICE 117 - COPIER	---	A	---	MEN'S ROOM HAND DRYER	30/1	30
31	30/1		WOMEN'S ROOM HAND DRYER	---	B	---		20/2	32
33	30/1		WOMEN'S ROOM HAND DRYER	---	A	---	UH-1 (SOUTH END)	20/2	34
35	20/1		PARKING LOT TIMER	---	B	---		20/2	36
37	20/1		UNKNOWN EXTG CIRCUIT	---	A	---	UH-1 (NORTH END)	20/2	38
39	20/2			---	B	---		20/2	40
41	20/2		PARKING LOT LIGHTS	---	A	---	PARKING LOT LIGHTS	20/2	42

REVISED PANEL #C1									
VOLTAGE: 120/240V-1PH-3W				MOUNTING: SURFACE					
AMPERAGE: 100 MLO				TYPE: SQUARE D TYPE NO PANELBOARD					
FED FROM: EXISTING PANEL #C				NEMA 1 ENCLOSURE					
KEY	CIR	CB/P	DESCRIPTION	LOAD	P	LOAD	DESCRIPTION	CB/P	CIR/KEY
1	---	---	SPACE	---	A	1000	VESTIBULE 111 - ADA DOORS	20/1	2
3	---	---	SPACE	---	B	1000	VESTIBULE 108 - ADA DOORS	20/1	4
5	---	---	SPACE	---	A	720	STORE OFFICE 114B RECEPTACLES	20/1	6
7	20/1		REFRIGERATOR RECEPT. 118	1000	B	---	SPARE	20/1	8
9	x20/1		INV-1	750	A	---	SPARE	20/1	10
11	20/1		SPARE	---	B	---	SPARE	20/1	12
13	20/1		SPARE	---	A	---	SPARE	20/1	14
15	---	---	SPACE	---	B	---	SPACE	---	16
17	---	---	SPACE	---	A	---	SPACE	---	18
19	---	---	SPACE	---	B	---	SPACE	---	20

REVISED PANEL #C2									
VOLTAGE: 120/240V-1PH-3W				MOUNTING: SURFACE					
AMPERAGE: 80A MLO				TYPE: SQUARE D QO LOAD CENTER					
FED FROM: EXISTING PANEL #C (VIF)									
KEY	CIR	CB/P	DESCRIPTION	LOAD	P	LOAD	DESCRIPTION	CB/P	CIR/KEY
1	x20/1		NEW LGTS-EXHIBIT SPACE, FAM. RR, EF	1092	A	180	RECEPTACLE - FAMILY RR	x20/1	2
3	x20/1		NEW EXHIBIT SPACE TRACK LIGHTS	900	B	1000	CHANGING TABLE	x20/1	4
5	x20/1		FUTURE TREE CIRCUIT	180	A	—	UNKNOWN LOAD	20/1	6
7	20/1		SPARE	—	B	360	RECEPTACLES - EXHIBIT SPACE	x20/1	8
9	20/1		SPARE	—	A	540	RECEPT - EX SPACE FB	x20/1	10
11	20/1		CEILING FANS	—	B	—	UNKNOWN LOAD	20/1	12
13	—		SPACE	—	A	1000	EHD - FAMILY RR	x20/1	14
15	—		SPACE	—	B	—	TREE	20/1	16
17	—		SPACE	—	A	—	SPACE	—	18
19	—		SPACE	—	B	—	SPACE	—	20
21	—		SPACE	—	A	—	SPACE	—	22
23	—		SPACE	—	B	—	SPACE	—	24



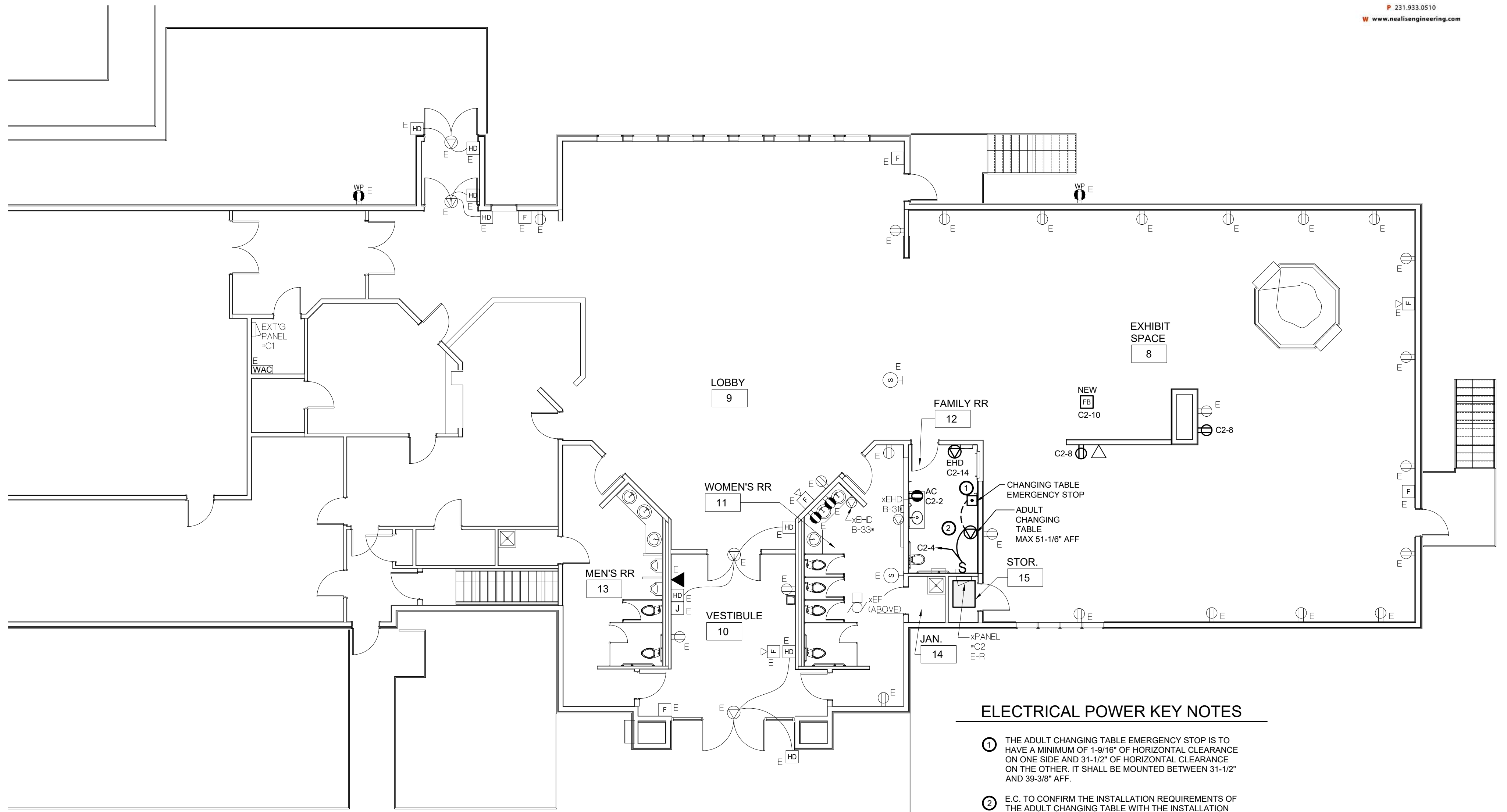
ELECTRICAL BASEMENT PLAN
SCALE: 1/8" = 1'-0"

GENERAL ELECTRICAL NOTES:

- CAUTION !!!!!!!
E.C. SHALL VERIFY ALL ROUGH-IN ELEVATIONS, LOCATIONS, AND/OR HEIGHTS OF ALL LIGHT FIXTURES, RECEPTACLE OUTLETS, ETC. WITH ARCHITECT/ENGINEER. FAILURE TO DO SO WILL REQUIRE E.C. TO RELOCATE RESPECTIVE ITEMS AT THE E.C.'S EXPENSE.
COMMUNICATION OUTLET LOCATIONS SHALL BE COORDINATED WITH OWNER AND OWNER FURNITURE PLAN.
- THE LIGHTS THAT ARE SHADED REPRESENT LIGHTS THAT HAVE EMERGENCY LIGHTING AND SHALL OPERATE AT A LOSS OF NORMAL POWER, BY HAVING A DIRECT (HOT) CONNECTION TO THE INTEGRAL EMERGENCY BATTERY OR EMERGENCY INVERTER. SEE SHEET E0.0 FOR INVERTER WIRING DETAILS.
- ALL CONDUIT AND CONDUCTORS FOR THE EMERGENCY LIGHTING SYSTEM SHALL COMPLY WITH NEC ARTICLES 700 & 701, AS REQUIRED.
- CONNECT ALL EXIT SIGNS AHEAD OF THE LOCAL AREA LIGHTING'S CONTROL DEVICE (i.e., HAVING A DIRECT (HOT) CONNECTION TO THE BATTERY).
- COORDINATE LOCATIONS AND MOUNTING HEIGHTS OF LIGHT FIXTURES WITH THE INTERIOR ELEVATIONS AND REFLECTED CEILING PLANS.
- ALL 2"x4" AND LARGER FIXTURES SHALL BE SECURELY HUNG FROM THE BUILDING STRUCTURE, REGARDLESS OF BEING RECESSED, SURFACE, OR PENDANT MOUNTED.
- FEEDS TO NEW POWER, LIGHTING, AND LOW VOLTAGE DEVICES SHALL BE ATTEMPTED IN EVERY WAY TO BE INSTALLED FLUSH-MOUNT (RECESSED BEHIND THE WALL SURFACE).
- THERE SHALL BE NO EXPOSED CONDUITS.
- E.C. SHALL FIELD VERIFY THAT ALL ADDITIONS AND CHANGES SHALL NOT OVERLOAD EXISTING CIRCUITS, PANELS, OR TOTAL SERVICE.
- ANY NEW CONDUIT PENETRATIONS THROUGH WALLS SHALL BE APPROPRIATELY FIRE-STOPPED, SMOKE-STOPPED, OR CAULKED WHEN PENETRATION SIZE EXCEEDS CONDUIT SIZE.
- OWNER RESERVES THE RIGHT TO ADJUST LOCATIONS OF DEVICES A MAXIMUM OF 6" FROM WHERE SHOWN ON PLANS.
- CIRCUITS SHOWN ON PLANS WITH AN "A" AFTER IT INDICATE THE CIRCUIT NUMBER FROM OLD DRAWINGS OR A TAKEOFF. E.C. IS TO VERIFY ACTUAL CIRCUIT AND USE IT IF DIFFERENT THAN CIRCUIT INDICATED.
- FIRE RATED CONSTRUCTION:
E.C. TO VERIFY ALL FIRE RATED CONSTRUCTION LOCATIONS AND REQUIREMENTS WITH ARCHITECTURAL DRAWINGS.

PANEL SCHEDULE KEY NOTES

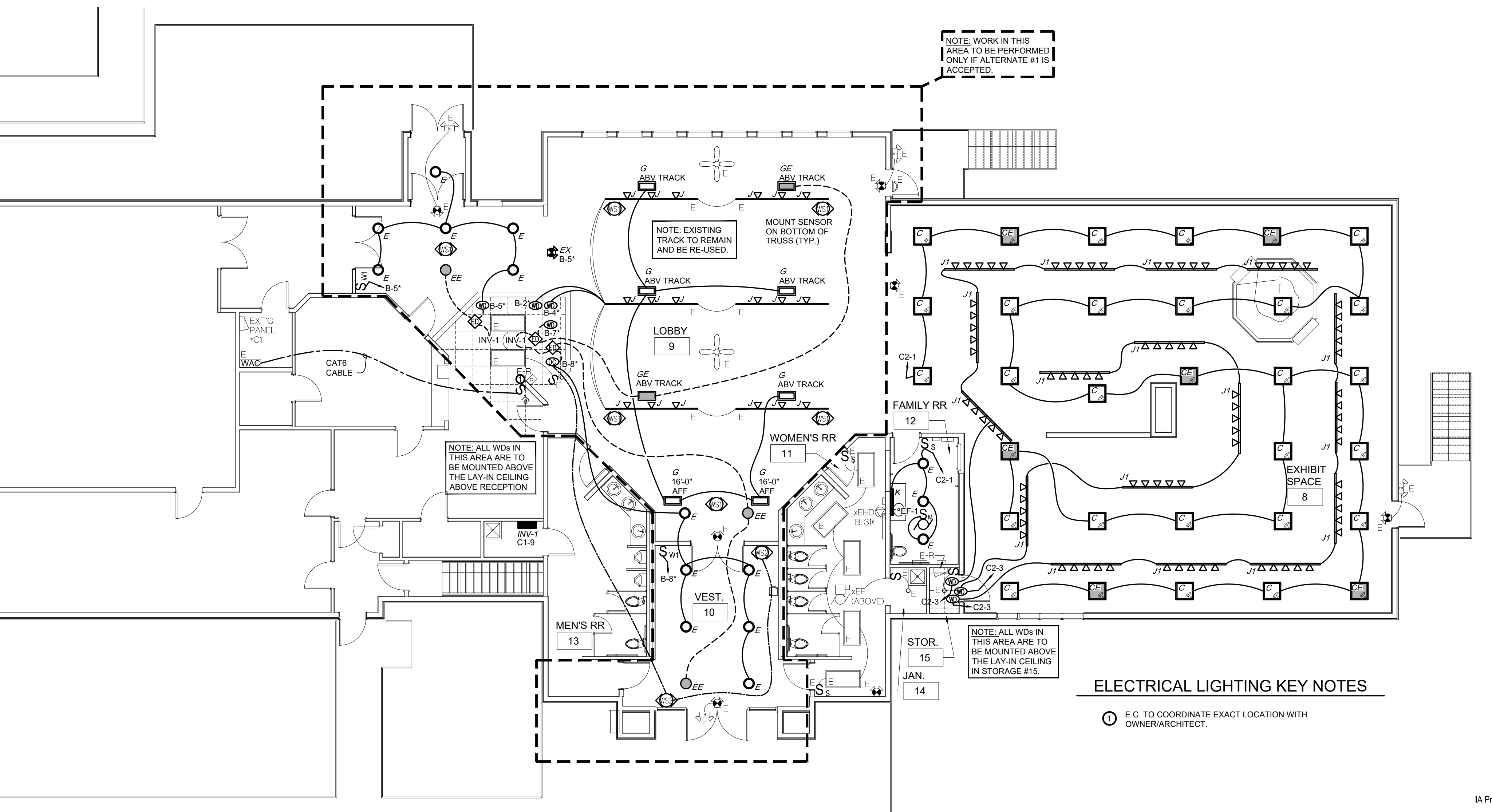
- A DENOTES ARC FAULT CIRCUIT INTERRUPTER (AFCI) CIRCUIT BREAKER REQUIRED
- B DENOTES BREAKER LOCK REQUIRED ON CIRCUIT BREAKER
- E DENOTES 30mA GROUND FAULT EQUIPMENT PROTECTION (GFE) CIRCUIT BREAKER REQUIRED
- G DENOTES GROUND FAULT CIRCUIT INTERRUPTER (GFCI) CIRCUIT BREAKER REQUIRED
- N DENOTES THAT A NEW CIRCUIT BREAKER IS REQUIRED, SIZED AS NOTED
- S DENOTES CIRCUIT BREAKER WILL REQUIRE SHUNT-TRIP OR TO BE RUN THRU SHUNT-TRIP CONTACTOR
- X DENOTES AN EXISTING CIRCUIT BREAKER THAT IS TO REMAIN AND BE REUSED
- * DENOTES ESTIMATED LOAD AND/OR CIRCUIT BREAKER SIZE. E.C. SHALL CONFIRM EXACT REQUIREMENTS WITH SHOP DRAWINGS PRIOR TO ORDERING CIRCUIT BREAKERS
- R DENOTES TO REPLACE THE EXISTING CIRCUIT BREAKERS WITH A NEW CIRCUIT BREAKER, SIZED AS NOTED IN THE REVISED PANEL SCHEDULE



ELECTRICAL POWER KEY NOTES

- THE ADULT CHANGING TABLE EMERGENCY STOP IS TO HAVE A MINIMUM OF 1-5/16" OF HORIZONTAL CLEARANCE ON ONE SIDE AND 31-1/2" OF HORIZONTAL CLEARANCE ON THE OTHER. IT SHALL BE MOUNTED BETWEEN 91-1/2" AND 39-3/8" AFF.
- E.C. TO CONFIRM THE INSTALLATION REQUIREMENTS OF THE ADULT CHANGING TABLE WITH THE INSTALLATION MANUAL.
- E.C. TO COORDINATE EXACT REQUIREMENTS WITH ARCHITECT/EXHIBIT DESIGNERS.

ELECTRICAL POWER MAIN FLOOR PLAN
SCALE: 1/8" = 1'-0"



ELECTRICAL LIGHTING KEY NOTES

- E.C. TO COORDINATE EXACT LOCATION WITH OWNER/ARCHITECT.

ELECTRICAL LIGHTING MAIN FLOOR PLAN
SCALE: 1/8" = 1'-0"

SECTION

ELECTRICAL SPECIFICATIONS

- 260000
- BASIC ELECTRICAL REQUIREMENTS
1. PRIOR TO SUBMITTING A PROPOSAL, BIDDER SHALL HAVE VISITED THE CONSTRUCTION SITE. HE SHALL BE FAMILIAR WITH THE EXISTING CONDITIONS UNDER WHICH HE WILL HAVE TO OPERATE AND WHICH WILL IN ANY WAY AFFECT THE WORK UNDER THIS CONTRACT. NO SUBSEQUENT ALLOWANCE WILL BE MADE IN THIS CONNECTION ON BEHALF OF THE CONTRACTOR FOR ANY ERROR OR NEGLIGENCE ON HIS PART.
 2. ELECTRICAL WORK SHALL COMPLY WITH THE LATEST ENFORCEABLE EDITION OF THE N.E.C., LOCAL AND STATE CODES, ORDINANCES, REGULATIONS, INCLUDING THE OCCUPATIONAL SAFETY AND HEALTH ACT (OSHA), AND ADA GUIDELINES WITH THE LOCAL CODE AUTHORITIES HAVING JURISDICTION.
 3. ELECTRICAL CONTRACTOR SHALL OBTAIN ALL PERMITS, PAY ALL FEES, AND ARRANGE FOR ALL INSPECTION FOR HIS WORK. AT THE COMPLETION OF ELECTRICAL WORK, THE ELECTRICAL CONTRACTOR SHALL FURNISH THE OWNER WITH ALL CERTIFICATES OF FINAL INSPECTION AND APPROVALS.
 4. THE CONTRACTOR SHALL EMPLOY QUALIFIED AND EXPERIENCED WORKMEN FOR THIS WORK.
 5. ELECTRICAL CONTRACTOR SHALL VERIFY AVAILABLE FAULT CURRENT WITH THE UTILITY TRANSFORMER'S DATA. FAULT CURRENT WAS NOT AVAILABLE AT THE TIME OF DESIGN. FOR THE PURPOSES OF BIDDING, ASSUME ALL PANELBOARDS TO BE 10,000 A.I.C. RATED.
 6. ELECTRICAL CONTRACTOR SHALL GUARANTEE ALL WORK INSTALLED UNDER HIS CONTRACT TO BE FREE FROM DEFECTIVE WORKMANSHIP AND MATERIALS FOR A PERIOD OF ONE YEAR AFTER THE ACCEPTANCE OF THE BUILDING BY THE OWNER. SHOULD DEFECTS OCCUR WITHIN THIS PERIOD, REPAIR AND/OR REPLACE DEFECTIVE ITEMS AT NO EXPENSE TO THE OWNER.
 7. THE ELECTRICAL CONTRACTOR SHALL PROVIDE A MINIMUM OF TWO (2) HOURS OF TRAINING AS NECESSARY TO THE OWNER ON THE ELECTRICAL EQUIPMENT AND/OR DEVICES, INCLUDING LIGHTING CONTROLS.
 8. THE ELECTRICAL CONTRACTOR SHALL PROVIDE ALL OPERATING AND MAINTENANCE INSTRUCTION MANUALS, CERTIFICATES OF INSPECTION, TEST REPORTS, SPARE PARTS, AND RECORD DRAWINGS (AS-BUILTS) TO THE OWNER PRIOR TO CLOSEOUT. FINAL PAYMENT WILL ONLY BE MADE AFTER THE FINAL PUNCH LIST COMPLETION AND RECEIPT OF THE ABOVE CLOSEOUT DOCUMENTATION.
 9. ELECTRICAL CONTRACTOR SHALL COORDINATE LOCATIONS OF HIS EQUIPMENT AND WORK WITH OTHER BUILDING TRADES TO AVOID ANY INTERFERENCES BETWEEN HIS WORK AND THE WORK OF OTHER BUILDING TRADES. IF ANY DISCREPANCIES OCCUR, CONSULT WITH THE ENGINEER AND/OR OWNER BEFORE CONTINUING.
 10. THE CONTRACTOR SHALL BE HELD FULLY RESPONSIBLE FOR THE PROPER RESTORATION OF ALL EXISTING SURFACES REQUIRING PATCHING, PLASTERING, PAINTING AND/OR REPAIR DUE TO THE INSTALLATION OF ELECTRICAL WORK UNDER THE TERMS OF THIS SPECIFICATION. CLOSE ALL OPENINGS, REPAIR ALL SURFACES, ETC. AS REQUIRED.
 11. CUTTING AND/OR PATCHING THAT MAY BE REQUIRED FOR THE INSTALLATION OF THE ELECTRICAL SYSTEM(S) SHALL BE DONE AND/OR REPAIRED BY THE ELECTRICAL CONTRACTOR. NO CUTTING OF THE BUILDING STRUCTURAL SYSTEM SHALL BE DONE WITHOUT THE WRITTEN CONSENT OF THE ARCHITECT.
 12. CERTAIN REMODELING OF ELECTRICAL FACILITIES WILL BE REQUIRED IN THE EXISTING BUILDING. EXISTING CONDUIT RUNS ARE GENERALLY NOT SHOWN ALTHOUGH AN ATTEMPT HAS BEEN MADE TO SHOW SOME EXISTING CONDITIONS FOR WHICH THE INFORMATION HAS BEEN TAKEN FROM FIELD OBSERVATIONS OF THIS PROJECT. THE DRAWINGS SHOWING LOCATIONS OF EXISTING EQUIPMENT, OUTLETS, FIXTURES, ETC., IN EXISTING AREAS ARE APPROXIMATE ONLY (FIELD VERIFY). VERIFY ALL EXISTING LOADS AND WIRING - NOTIFY THE OWNER/ENGINEER IF EXISTING CONDITIONS ARE FOUND THAT VIOLATE INSTALLATION OR SAFETY CODES.
 13. EXISTING ELECTRICAL WIRING WHICH WILL NOT BE MADE OBSOLETE AND WHICH WILL BE DISTURBED DUE TO CONSTRUCTION CHANGES REQUIRED BY THIS CONTRACT SHALL BE RESTORED TO OPERATING CONDITION AS REQUIRED AND/OR DIRECTED. WHERE REQUIRED, SHOWN, AND/OR DIRECTED, OUTLETS AND CONDUIT RUNS SHALL BE RELOCATED. IN SOME CASES IT MAY BE NECESSARY TO EXTEND CONDUITS AND PULL IN NEW WIRING, INSTALL JUNCTION BOXES AND SPLICE IN NEW WIRING, OR REPLACE OLD WIRING WITH NEW.
 14. OUTLETS FROM WHICH FIXTURES, SWITCHES, RECEPTACLES, AND/OR OTHER ELECTRICAL DEVICES ARE MOVED AND WHICH ARE NOT REPLACED OR REUSED SHALL BE REMOVED OR, IF IT IS NOT POSSIBLE TO REMOVE, HAVE A BLANK COVER PLACED ON THE OUTLET BOX. WHERE OUTLETS, BOXES, ETC. ARE COMPLETELY REMOVED, THE CONTRACTOR SHALL CUT OFF AND CAP CONDUITS AND REMOVE WIRING.
 15. WHERE EXISTING WIRE, CONDUIT, AND OUTLET BOXES ARE NO LONGER USED, REMOVE WIRE BACK TO THE POWER SOURCE AND PROVIDE BLANK COVER ON OUTLET BOX. EXPOSED CONDUIT NOT REUSED SHALL BE REMOVED.
 16. THE ELECTRICAL CONTRACTOR SHALL PERIODICALLY REMOVE FROM THE SITE ALL DEBRIS AND RUBBISH ACCUMULATING AS A RESULT OF THE ELECTRICAL INSTALLATION. UPON COMPLETION OF THE PROJECT, HE SHALL DISPOSE OF ALL DEBRIS AND RUBBISH AND SHALL LEAVE ALL AREAS CLEAN. THE INTERIORS OF ALL CABINETS, PULL BOXES, AND EQUIPMENT ENCLOSURES SHALL BE FREE OF ANY DEBRIS.
 17. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS AND SHALL WORK WITH EXISTING SYSTEMS IN AN "AS FOUND" CONDITION.
 18. DRAWINGS ARE DIAGRAMMATIC ONLY! THEY SHOW OBSERVATIONS FROM CASUAL FIELD INVESTIGATIONS AND EXISTING DRAWINGS. FIELD VERIFY ALL EXISTING CONDITIONS, DIMENSIONS, AND MOUNTING LOCATIONS. NOTIFY THE ARCHITECT/ENGINEER IF ANY DISCREPANCIES ARE FOUND THAT AFFECT THE WORK TO BE PERFORMED, PRIOR TO PROCEEDING.
 19. ALL EQUIPMENT SHALL BE GROUNDED IN ACCORDANCE WITH THE NEC AND ALL LOCAL CODES. INDIVIDUAL EQUIPMENT GROUNDING CONDUCTORS SHALL BE PROVIDED IN ALL CONDUIT.
 20. NO SPLICES SHALL BE PERFORMED ON LOW VOLTAGE WIRING OR MANUFACTURER SUPPLIED CABLING.
 21. WITHIN THIRTY (30) DAYS AFTER THE ELECTRICAL CONTRACTOR HAS BEEN NOTIFIED TO PROCEED WITH THE WORK, HE SHALL SUBMIT TO THE ARCHITECT/ENGINEER SIX (6) PRINTED HARD COPIES -OR- ONE (1) ELECTRONIC COPY IN PDF FORMAT OF EACH OF THE FOLLOWING DRAWINGS AND DATA SHEETS FOR APPROVAL. ALL EQUIPMENT FOR WHICH SHOP DRAWINGS ARE BEING SUBMITTED SHALL NOT BE ORDERED UNTIL APPROVED DRAWINGS HAVE BEEN RETURNED. SUCH SUBMITTALS SHALL INCLUDE:
 - * ELECTRICAL GEAR, INCLUDING CIRCUIT BREAKERS, ETC.
 - * WIRING DEVICES, INCLUDING RECEPTACLES AND FLOOR BOXES
 - * LIGHTING FIXTURES
 - * EMERGENCY LIGHTING INVERTER
 - * LIGHTING CONTROLS
 22. ELECTRICAL JOINTS WILL BE PERMITTED ONLY IN JUNCTION AND OUTLET BOXES. ALL JOINTS SHALL BE FIRMLY BONDED TOGETHER AND TAPED OR SHALL BE MADE WITH MECHANICAL CONNECTORS. NO SPLICES SHALL BE PERFORMED ON LOW VOLTAGE WIRING OR MANUFACTURER SUPPLIED CABLING.
 23. ELECTRICAL MATERIALS SHALL BE NEW AND BEAR THE "UL" LABEL OR LISTING.
 24. BRANCH CIRCUIT WIRE SHALL BE COPPER, RATED 75°C, MINIMUM SIZE #12 AWG, AND BE:
 - (1. TYPE "THHN", "THWN", OR "THWN-2" AND INSTALLED IN CONDUIT (SCHEDULE 40 PVC OR SCHEDULE 80 PVC WHERE SUBJECT TO DAMAGE) FOR ALL EXTERIOR, INTERIOR WET LOCATIONS, AND UNDERGROUND APPLICATIONS, AND EMT FOR INTERIOR USE, MINIMUM SIZE 1/2" OR
 - (2. TYPE "MC", "AC" CABLE (8 FT MAXIMUM UNLESS OTHERWISE NOTED OR APPROVED BY THE ARCHITECT/ENGINEER/OWNER) MAY ONLY BE USED FOR FINAL CONNECTIONS TO LIGHT FIXTURES, FOR FISHING-IN NEW DEVICES PLACED IN EXISTING WALLS, AND FROM DEVICE-TO-DEVICE IN NEW CONSTRUCTION, OR
 - (3. UNLESS OTHERWISE NOTED OR REQUIRED BY CODE.
 25. INTERIOR MOTOR CONNECTIONS SHALL BE TYPE "MC" OR "AC" CABLE, OR LIQUID-TIGHT FLEXIBLE (METAL OR NONMETALLIC) CONDUIT (BOTH WITH A 6 FT MAXIMUM LENGTH).
 26. FEEDERS AND SECONDARY SERVICE CONDUCTORS SHALL BE STRANDED COPPER WITH 600 VOLT INSULATION, RATED 90°C, AND BE:
 - (1. TYPE "THHN", "THWN", OR "THWN-2" AND BE INSTALLED IN SCHEDULE 40 PVC, MINIMUM SIZE 1/2"
 - (2. UNLESS OTHERWISE NOTED OR REQUIRED BY CODE.
 27. ALL WIRE AND CABLE SHALL BE NEW AND SHALL BE DELIVERED TO PROJECT IN UNBROKEN AND UNDAMAGED CARTONS AND/OR REELS.
 28. ALL NEW BRANCH WIRING SHALL BE COLOR CODED BY THE FOLLOWING VOLTAGE SYSTEMS AND LABELED AT THEIR SOURCE PER NEC SECTION #210.5:
 - 120/240V 1-Ø 3W SYSTEM
 - ØA - BLACK
 - ØB - RED
 - ØC - N/A
 - NEUTRAL - WHITE
 - E.G.C. - GREEN
 29. ALL CONDUIT AND JUNCTION BOXES SHALL BE APPROPRIATELY MARKED WITH THE CIRCUITS THEY CONTAIN AND A DESIGNATION THAT IT IS CONTAINING ELECTRICAL CONDUCTORS.
 30. RECEPTACLES SHALL BE COMMERCIAL SPECIFICATION GRADE, TAMPER RESISTANT, RATED 125 VOLT, 20 AMP, GROUNDED TYPE NEMA 5-20R. EQUAL TO LEVITON, GENERAL ELECTRIC, COOPER, HUBBELL, ARROW-HART, EATON, OR P & S.
 31. SWITCHES SHALL BE COMMERCIAL SPECIFICATION GRADE, RATED 20A, 120/277 VOLT, SINGLE, WIRELESS, ETC. AS INDICATED. EQUAL TO LEVITON, GENERAL ELECTRIC, COOPER, HUBBELL, ARROW-HART, EATON, OR P & S.
 32. PLATES FOR SWITCHES AND RECEPTACLES SHALL BE PLASTIC OR NYLON TO MATCH THE DEVICE.
 33. INTEGRAL EMERGENCY BATTERIES AND REMOTE EMERGENCY INVERTERS SHALL PROVIDE A MINIMUM OF 90 MINUTES OF RUN-TIME FOR FIXTURES AS SHOWN BY MYERS OR EQUAL BY BODINE, CONTROLLED POWER, OR SURELITES.
 34. ALL LIGHT FIXTURES HAVE BEEN SELECTED BY THE OWNER, THE ARCHITECT, AND THE ENGINEER FOR THE BASIS OF DESIGN AND APPEARANCE.
 35. PROJECT HAS BEEN DESIGNED TO COMPLY WITH AUTOMATIC LIGHTING SHUTOFF AND ENERGY REQUIREMENTS OF ASHRAE 90.1-2019. AUTOMATIC LIGHTING CONTROLS SHALL BE PROVIDED AS SHOWN PER THE FLOOR PLANS AND SPECIFICATIONS.
 36. THE ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL A BOX AND RACEWAY SYSTEM FOR THE LOW-VOLTAGE CABLING SYSTEMS (DATA, TELEPHONE, TELEVISION, SOUND, PUBLIC ADDRESS, PAGING, SECURITY, CCTV, CARD ACCESS, ETC.). THESE DRAWINGS ARE DIAGRAMMATICAL AND THE LOCATIONS SHALL BE COORDINATED WITH THE OWNER IN THE FIELD.
 37. PROVIDE AN UPDATED, ACCURATE, AND TYPED PANEL SCHEDULE FOR ALL EXISTING ELECTRICAL PANELS THAT ARE AFFECTED BY THE WORK IN THIS PROJECT. DOCUMENT ALL CHANGES ON FINAL AS-BUILT DRAWINGS AS REQUIRED.
 38. VERIFY ALL EXISTING LOADS AND WIRING - NOTIFY THE ARCHITECT/ENGINEER IF EXISTING CONDITIONS ARE FOUND THAT VIOLATE INSTALLATION OR SAFETY CODES.

Bid/Permit	13 May 2026
100% CD	03 April 2026
90% CD	20 March 2026
50% CD	6 March 2026
100% DD	18 Feb. 2026
50% DD	30 Jan. 2026
Design	JAV/LMD
PMPA	JAV
Drawn	JAV/LMD
IA Project Number	20251010

ELECTRICAL
SPECIFICATIONS