

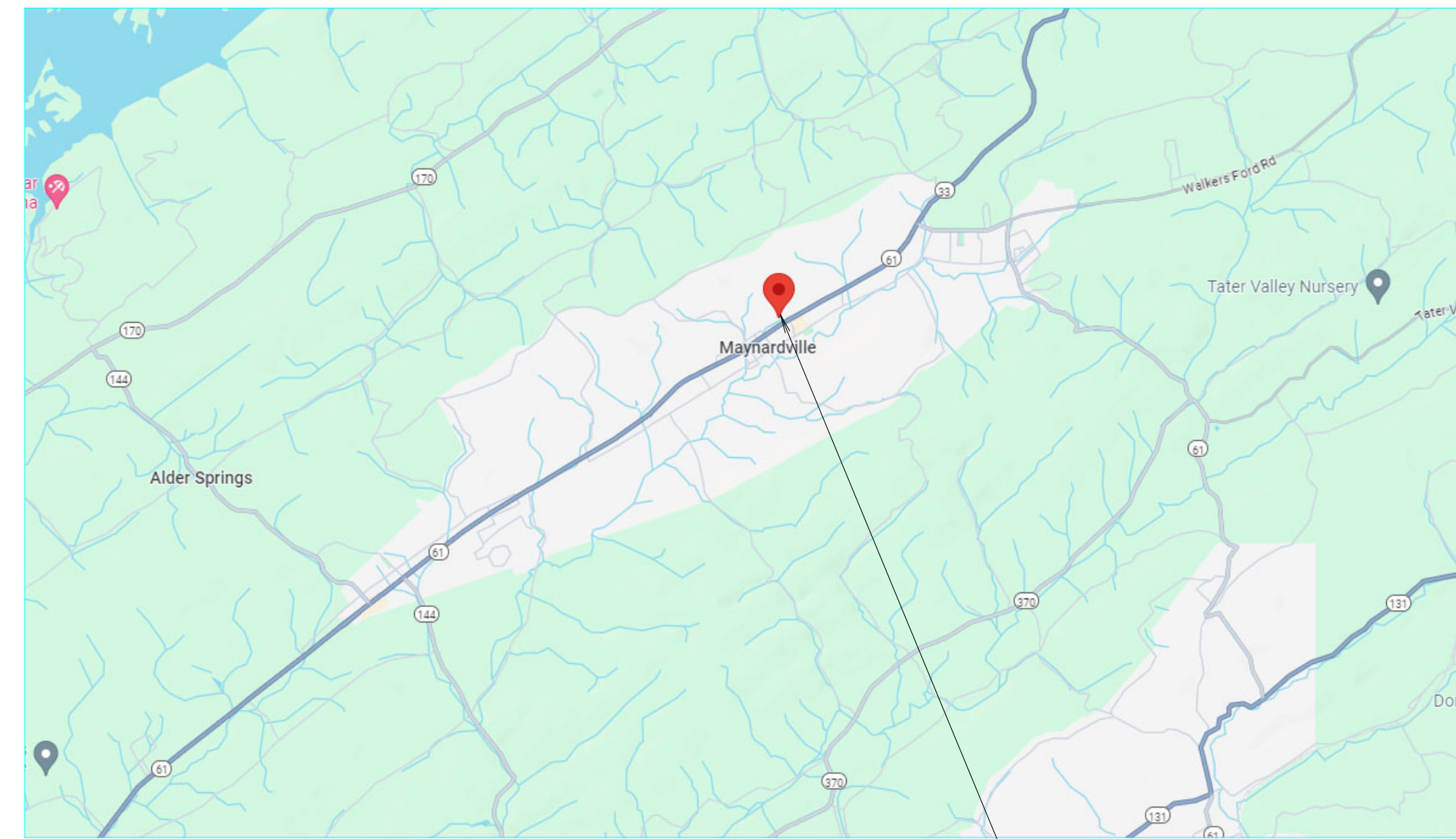
# UNION COUNTY HEALTH DEPT. RENOVATIONS

## 4335 MAYNARDVILLE HWY, MAYNARDVILLE, TN 37807

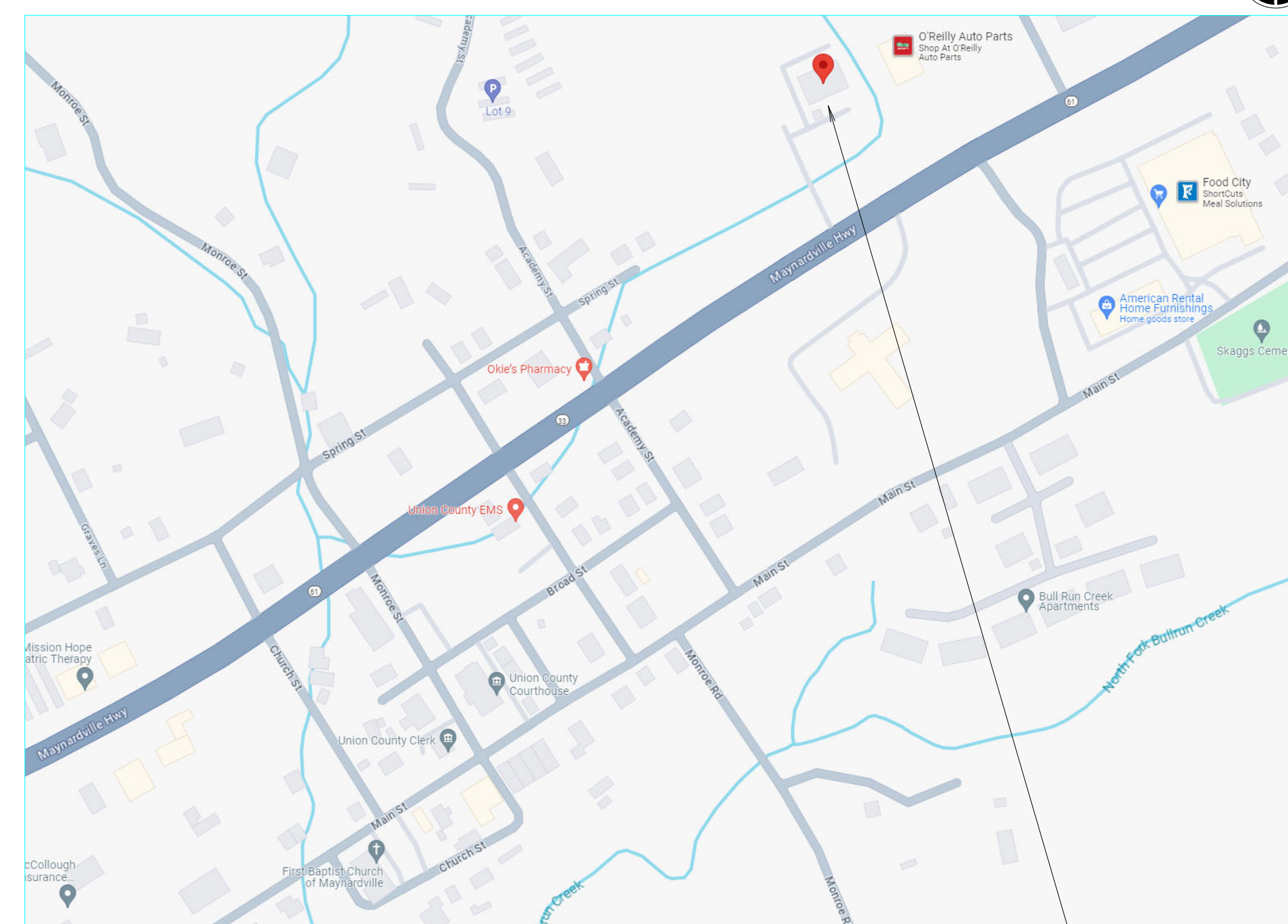
the  
*benefield richters*  
company



PHOTOGRAPH OF EXISTING BUILDING



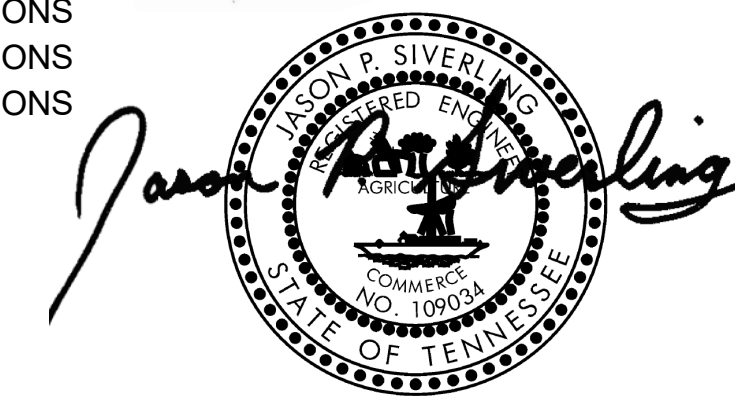
LOCATION MAP



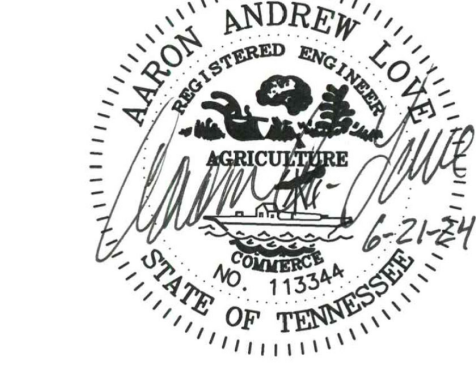
VICINITY MAP

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- G-001 ABBREVIATIONS, SYMBOLS & NOTES
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- E-201 LEGEND AND SCHEDULES
- TOTAL SHEETS: 25



06/21/2024



planning  
architecture

902 N. Central St.  
Knoxville, TN 37919  
(865) 637-7009

CIVIL ENGINEER

ROBERT CAMPBELL & ASSOCIATES  
7523 TAGGART LN  
KNOXVILLE, TN 37929  
(865) 947-5996

STRUCTURAL ENGINEER

ARROW ENGINEERING  
1459 WILLEY ST  
MORGANTOWN, WV 26505  
(304) 276-1296

MECHANICAL ENGINEER

BEDINGER CONSULTING ENGINEERS  
5641 MERCHANTS CENTER BLVD, STE. A401  
KNOXVILLE, TN 37912  
(865) 637- 8339

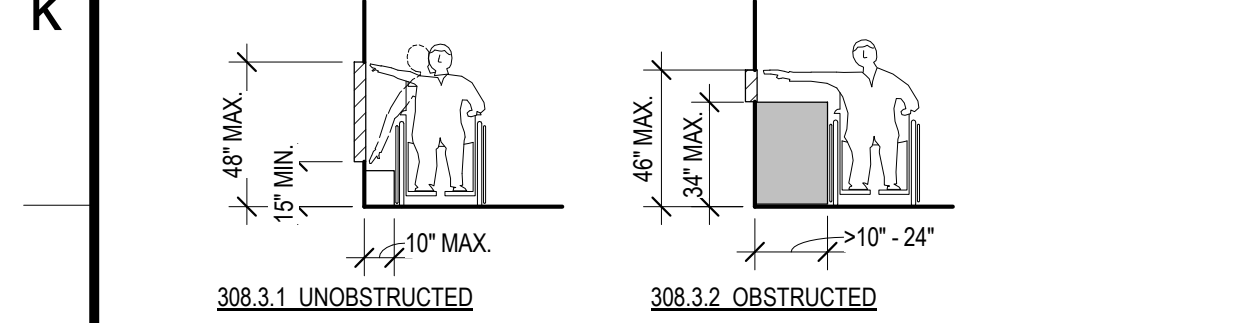
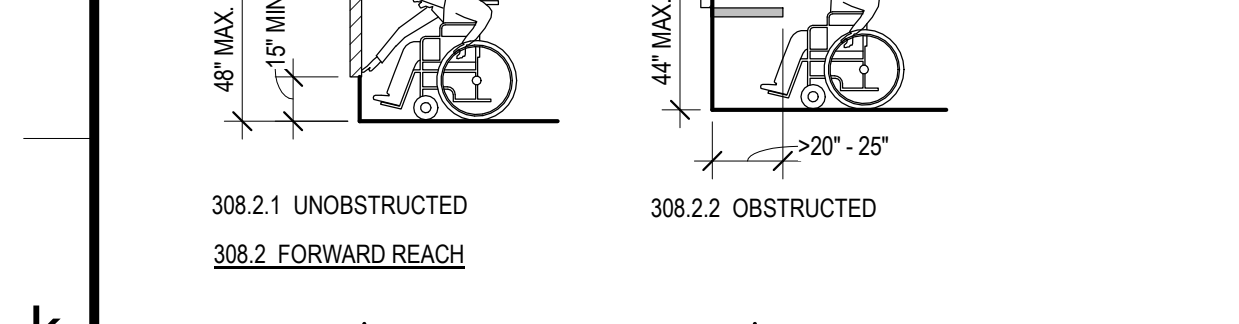
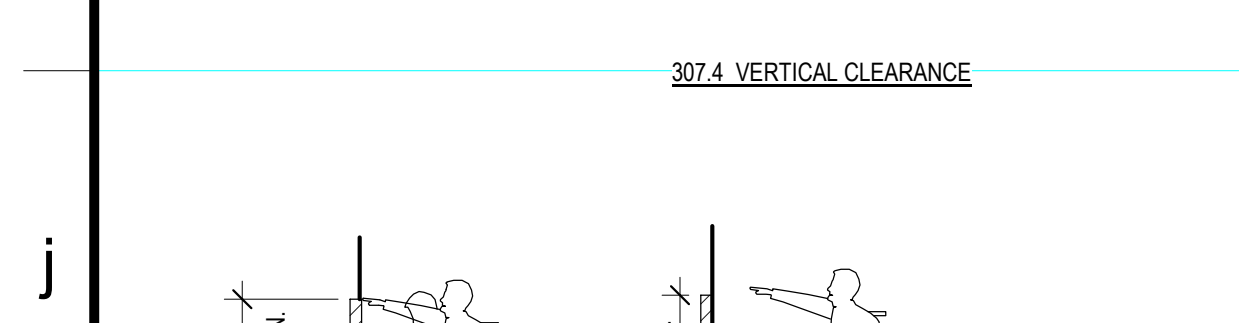
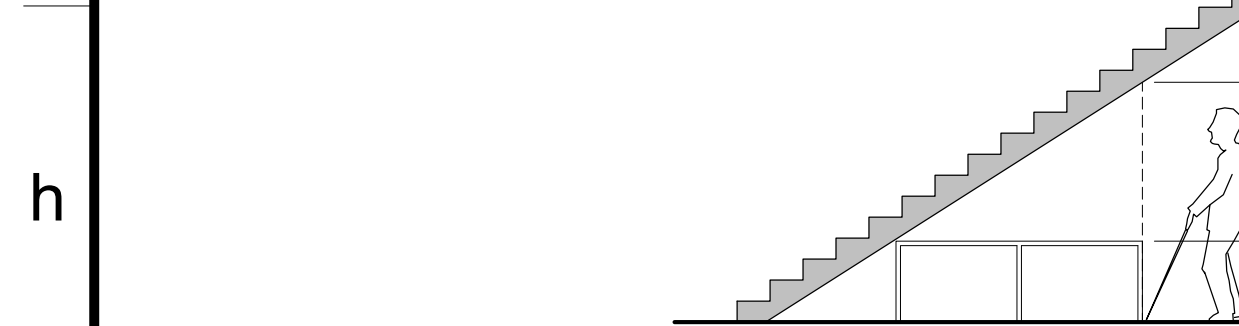
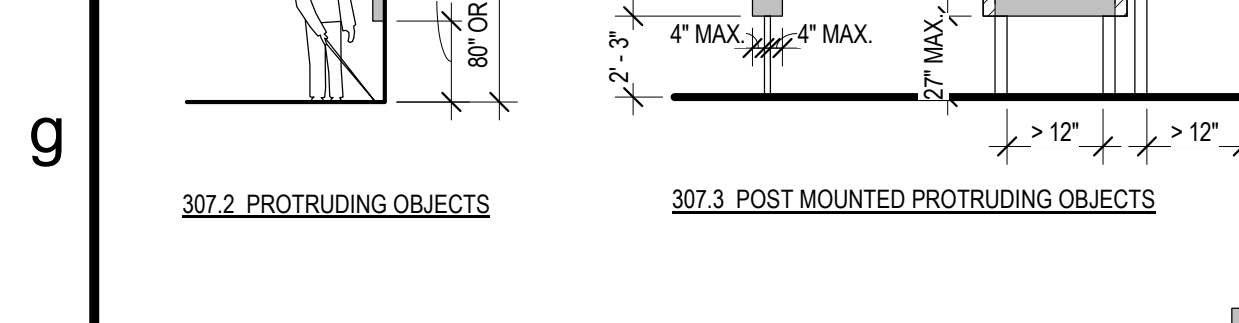
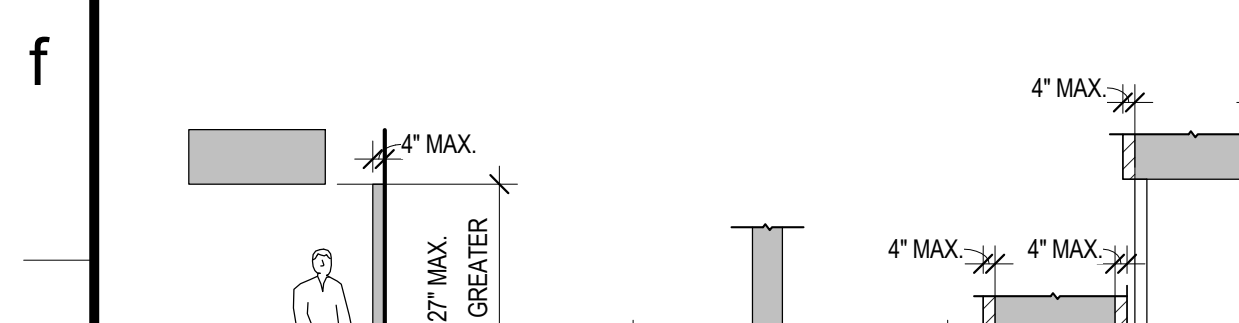
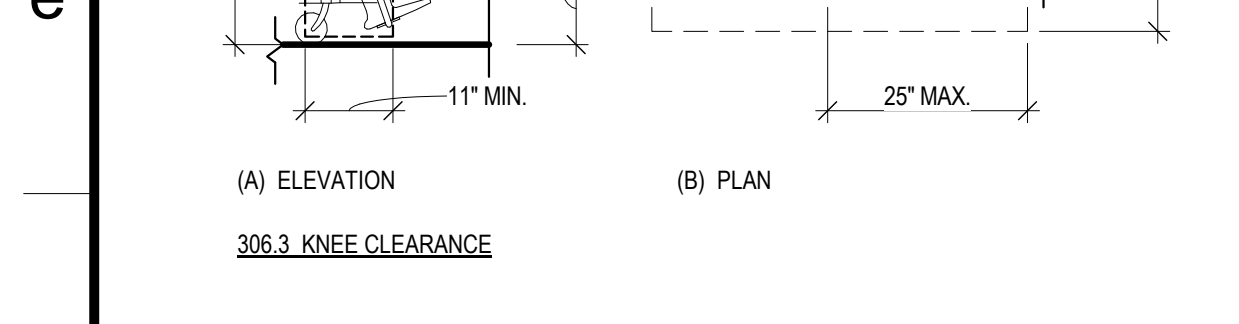
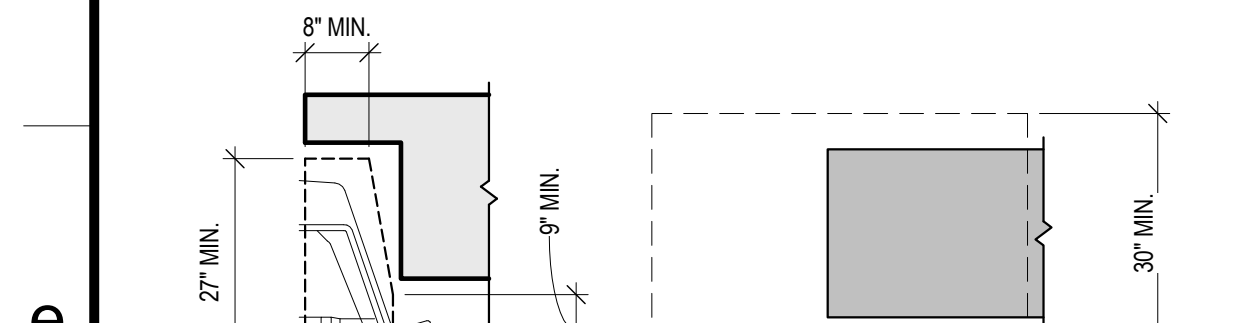
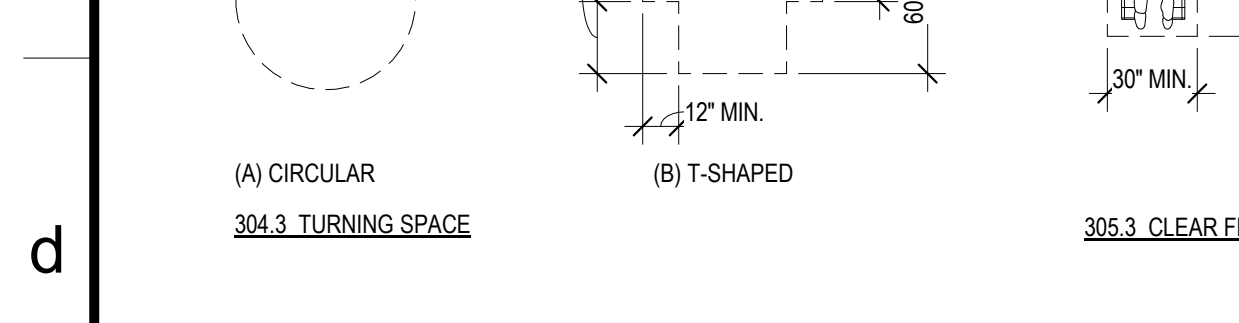
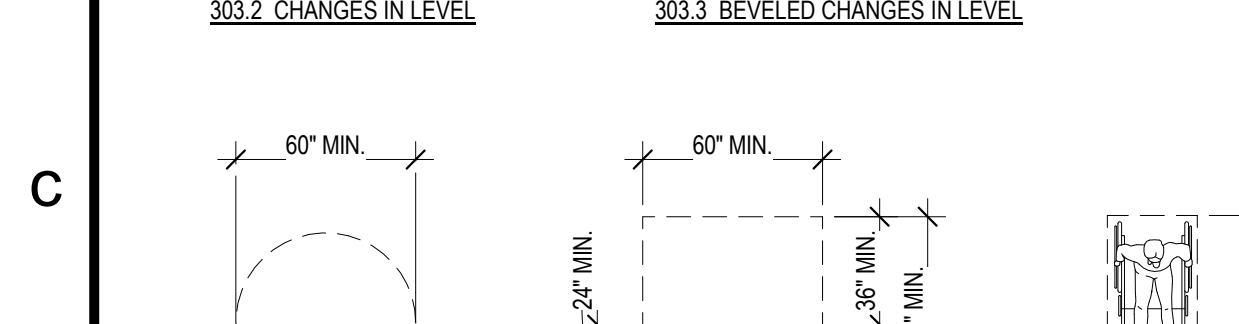
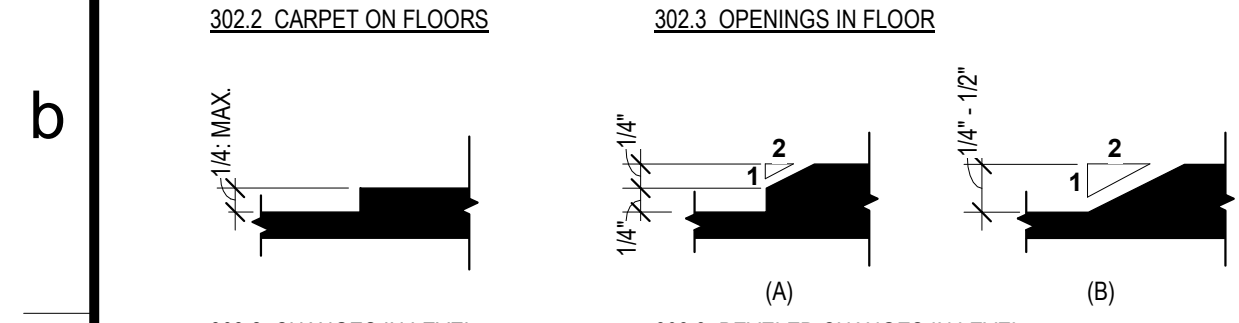
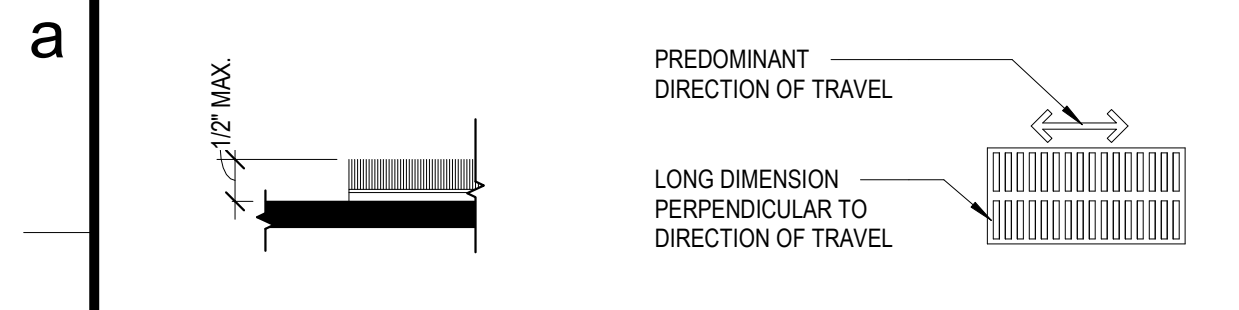
ELECTRICAL ENGINEER

VREELAND ENGINEERS INC.  
3107 SUTHERLAND AVE.  
KNOXVILLE, TN 37939  
(865) 637-4451

UNION COUNTY HEALTH DEPT. RENOVATIONS

RELEASE FOR CONSTRUCTION  
ISSUE DATE: 06/21/2024

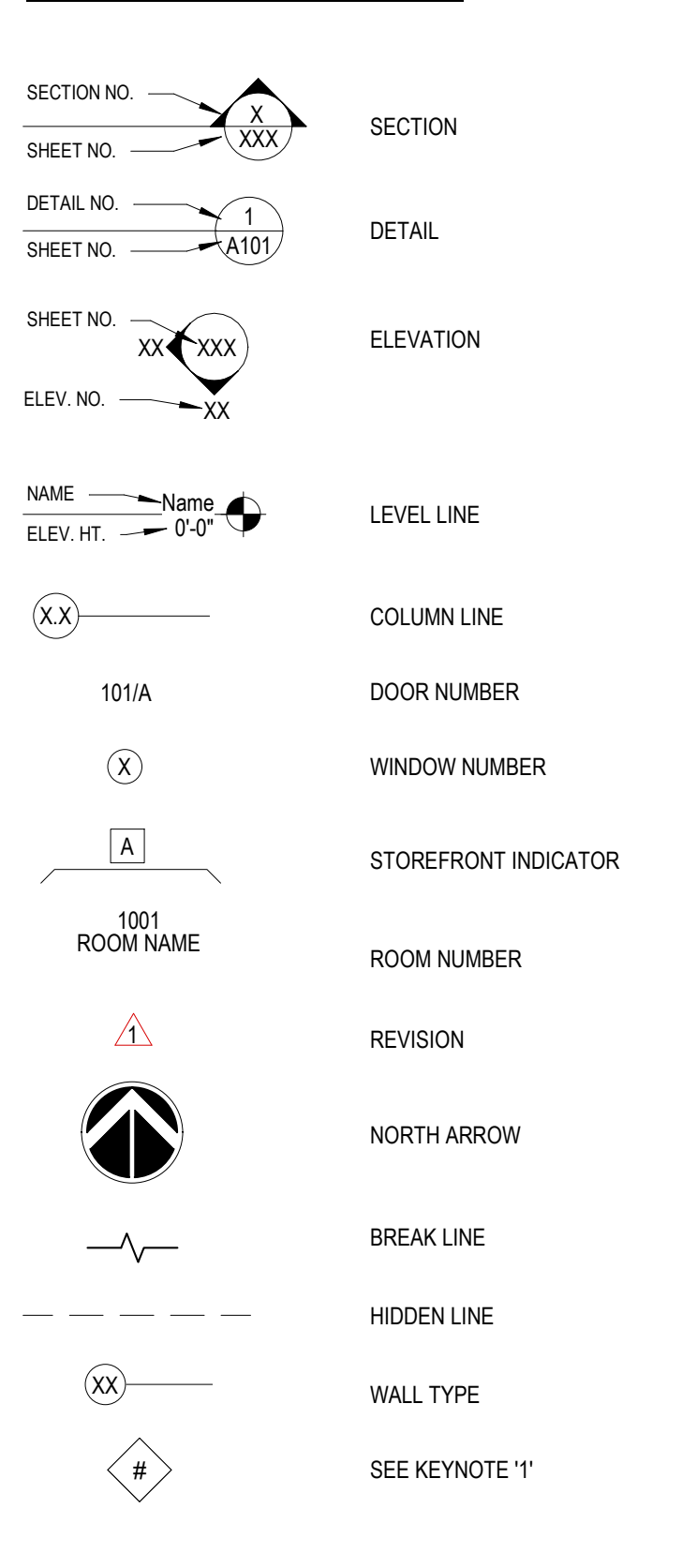
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**ADA ACCESSIBILITY GUIDELINES - BUILDING BLOCKS**



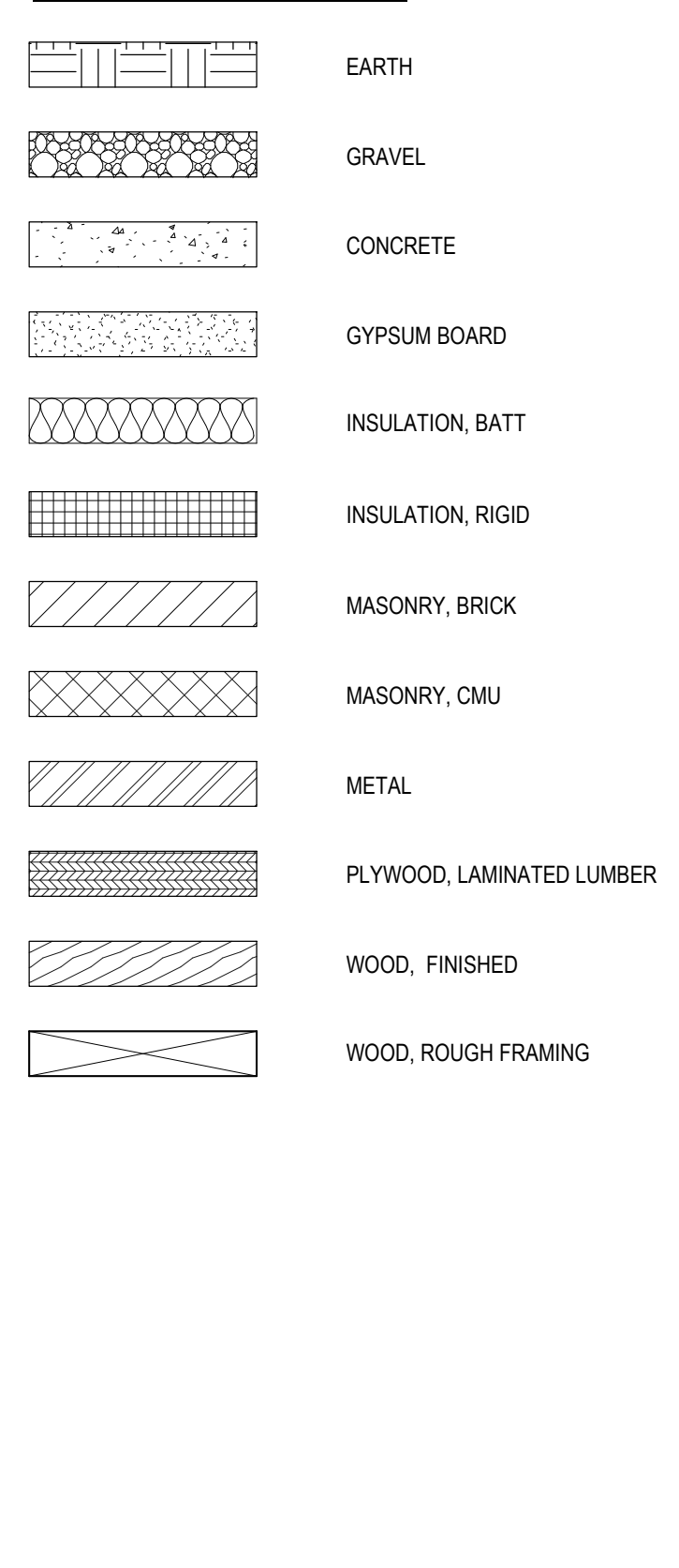
5 6 7 8 9  
**ABBREVIATIONS**

A.B. ANCHOR BOLT	B.C. BOTTOM OF CURB	B.L.D.G. BUILDING	B.M. BENCH MARK	B.R.G. BEARING	B.T.W. BETWEEN	B.T.U. BRITISH THERMAL UNIT	C.B. CABINET	C.B. CATCH BASIN	C.L. CENTER LINE	C.I. CURB INLET	C.J. CONTROL JOINT	C.T. CERAMIC TILE	C.L.G. CEILING	C.L.R. CLEARANCE	C.M.P. CORRUGATED METAL PIPE	C.M.U. CONCRETE MASONRY UNIT	C.O.L. COLUMN	C.O.N.C. CONCRETE	C.O.N.F. CONFERENCE	C.O.N.S.T. CONSTRUCTION	C.O.N.T. CONTINUOUS	C.O.N.T.R. CONTRACTOR	C.O.O.R.D. COORDINATE (ION)	C.O.R.R. CORRIDOR	C.O.R.T. CURBET	C.U. FT. CUBIC FOOT	C.U. YD. CUBIC YARD	D.T.L. DETAIL	D.I.A. DIAMETER	D.I.A.G. DIAGRAM	D.I.M. DIMENSION	D.N. DOWN	D.W. DOMESTIC WATER / DISH WASHER	D.S. DOWN SPOUT	D.W.G. DRAWING	D.F. DRINKING FOUNTAIN	E.A. EACH	E.I.F.S. EXTERIOR INSULATION FINISH SYTEM	E.J. EXPANSION JOINT	E.L.E.C. ELECTRIC	E.L. ELEVATION	E.L.E.V. ELEVATOR	E.M.E.R. EMERGENCY	E.P. ELECTRICAL PANEL	E.Q. EQUAL	E.Q.U.I.P. EQUIPMENT	E.W. EACH WAY	E.X.I.S.T. EXISTING	E.X.P. EXPANSION	E.X.T. EXTERIOR	F.D. FLOOR DRAIN	F.E. FIRE EXTINGUISHER	F.E.C. FIRE EXTINGUISHER CABINET	F.F. FINISHED FLOOR	F.F.E. FINISHED FLOOR ELEVATION	F.H. FIRE HYDRANT	F.I.N. FINISHED	F.L. FLOOR	F.R.P. FIBERGLASS REINFORCED PANEL	F.T. FOOT	F.T.S. FOOTING	F.O.M. FACE OF MASONRY	F.O.U.N.D. FOUNDATION	F.O.S. FACE OF STUD	F.R. FIRE RATED	F.V. FIELD VERIFY	G. GAS	G.A. GAUGE	G.A.L.V. GALVANIZED	G.R. GRADE	G.Y.P. GYPSUM	G.Y.P. B.D. GYPSUM BOARD	H. HIGH	H.B. HOSE BBB	H.C. HANDICAPPED	H.D.W.R. HARDWARE	H.M. HOLLOW METAL	H.O.R.I.Z. HORIZONTAL	H.P. HORSEPOWER / HIGH POINT	H.R. HOUR	H.T. HEIGHT	H.W. HOT WATER	I.D. INSIDE DIAMETER	I.N. INCH	I.N.S.U.L. INSULATION	I.N.T.E.R. INTERIOR	I.N.V. INVERT	I.P. IRON PIN / IRON PIPE	J.S.T. JOIST	J.T. JOINT	K.I.T. KITCHEN	L. LENGTH	L.A.M. LAMINATE	L.A.V. LAVATORY	L.F. LINEAR FEET	L.L. LIVE LOAD	L.L.H. LONG LEG HORIZONTAL	L.L.V. LONG LEG VERTICAL	L.P. LOW POINT	L.V.R. LOUVER	L.V.T. LUXURY VINYL TILE	M.A.C.H. MACHINE(ARY)	M.A.S. MASONRY	M.A.T.L. MATERIAL	M.A.X. MAXIMUM	M.E.C.H. MECHANICAL	M.F.R. MANUFACTURER	M.H. MARKLE	M.I.N. MINIMUM	M.I.S.C. MISCELLANEOUS	M.O. MASONRY OPENING	M.T.L. METAL	N.A. NOT APPLICABLE	N.E.O. NEOPRENE	N.I.C. NOT IN CONTRACT	N.O. NUMBER	N.O.M. NOMINAL	N.I.C. NOT IN CONTRACT	N.T.S. NOT TO SCALE	O.C. ON CENTER	O.D. OUTSIDE DIAMETER	O.H.E. OVERHEAD ELECTRIC	O.F.F. OFFICE	O.H. OVERHEAD	O.P.N.G. OPENING	O.P.P. OPPOSITE	U.N.O. UNLESS NOTED OTHERWISE	V.A.R. VARIES / VARIABLE	V.B. VAPOR BARRIER / VINYL BASE	V.C.T. VINYL COMPOSITION TILE	V.E.R.T. VERTICAL	V.V.C. VINYL WALL COVERING	W. WIDE / WIDTH / WITH	W.C. WATER CLOSET	W.D. WOOD	W.H. WATER HEATER	W.O. WITHOUT	W.R. WATER RESISTANT	W.W.F. WELDED WIRE FABRIC	W.M.M. WELDED WIRE MESH	P.C. PRECAST	P.L. PLATE	P.L.Y. PLYWOOD	P.L.A.M. PLASTIC LAMINATE	P.L.U.M.B. PLUMBING	P.N.L. PANEL	P.R.E.L.I.M. PRELIMINARY	P.S.I. POUND PER SQUARE INCH	P.T. PAINT / POINT	P.T. PRESSURE TREATED	P.V.C. POLYVINYLCHLORIDE	P.V.T. PAVEMENT	Q.T.Y. QUANTITY	Q.T. QUARRY TILE	R. RADIUS / RISER	R.A. RETURN AIR	R.A.D. RADIUS	R.A.G. RETURN AIR GRILL	R.C.P. REINFORCED CONCRETE PIPE / REFLECTED CEILING PLAN	R.E.F. REFERENCE	R.E.I.N.F. REINFORCED (MENT)	R.E.S. RESILIENT	R.E.T. RETAINING	R.M. ROOM	R.E.V. REVISION	R.O. ROUGH OPENING	R.O.W. RIGHT OF WAY	S.A.F.B. SOUND ATTENUATION FIRE BATT	S.A.G. SUPPLY AIR GRILL	S.A.N. SANITARY	S.C.H.E.D. SCHEDULE	S.D. STORM DRAIN	S.F. SQUARE FEET	S.H.T. SHEET	S.H.W. SHOWER	S.I.M. SIMILAR	S.P.E.C. SPECIFICATION	S.Q. SQUARE	S.S. STAINLESS STEEL	S.T.D. STANDARD	S.T.L. STEEL	S.T.O.R. STORAGE	S.S. SANITARY SEWER	S.T.R.U.C.T. STRUCTURE(IAL)	S.U.S.P. SUSPENDED	T. TREAD	T.E.M.P. TEMPERED	T.E.R.R. TERRAZO TILE	T.H.K. THICK	T.L.T. TOILET	T.O.M. TOP OF MASONRY	T.O.S. TOP OF STEEL	T.O.W. TOP OF WALL	T.V. TELEVISION	T.Y.P. TYPICAL
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10 11  
**REFERENCE SYMBOLS**



12 13  
**GRAPHIC SYMBOLS**



14 15  
**GENERAL PROJECT NOTES**

- DO NOT SCALE DRAWINGS. IF A DIMENSION IS IN QUESTION, CONTRACTOR SHALL OBTAIN CLARIFICATION, IN WRITING, FROM THE ARCHITECT.
- CONTRACTOR SHALL COMPLY WITH LOCAL, STATE AND FEDERAL CODES, REGULATIONS AND ORDINANCES. CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING PERMITS REQUIRED FOR CONSTRUCTION.
- CONTRACTOR SHALL TAKE NECESSARY PRECAUTIONS TO PROTECT SURROUNDING PROPERTY, STREETS, WALKS, ETC. FROM CONSTRUCTION ACTIVITIES AND SHALL BE RESPONSIBLE FOR REPAIRING DAMAGE CAUSED AS A RESULT.
- CONTRACTOR IS SOLELY RESPONSIBLE FOR MEANS AND METHODS OF CONSTRUCTION.
- CONTRACTOR IS SOLELY RESPONSIBLE FOR SAFETY ON THE JOB SITE AND FOR COMPLIANCE WITH OSHA REGULATIONS.
- CONTRACTORS TO VERIFY EXISTING CONDITIONS PRIOR TO BIDDING WORK. IF CONDITIONS VARY FROM THOSE SHOWN ON DRAWINGS, CONTACT ARCHITECT BEFORE PROCEEDING. CHANGE ORDERS WILL NOT BE ISSUED FOR ITEMS ARISING OUT OF FAILURE TO FULLY INSPECT EXISTING CONDITIONS.
- WHERE WORK IS INDICATED TO FIT TO OTHER CONSTRUCTION, FIELD VERIFY DIMENSIONS OF CONSTRUCTION BEFORE FABRICATION. NOTE FIELD MEASUREMENTS OF SHOP DRAWINGS.
- CHANGE ORDERS WILL NOT BE ISSUED FOR CHANGES UNLESS APPROVED BY OWNER PRIOR TO BEGINNING WORK.
- DETAILS OR NOTES DESCRIBED FOR A CONDITION SHALL APPLY TO SIMILAR CONDITIONS, UNLESS NOTED OTHERWISE.

**benefield · richters**

planning  
 architecture

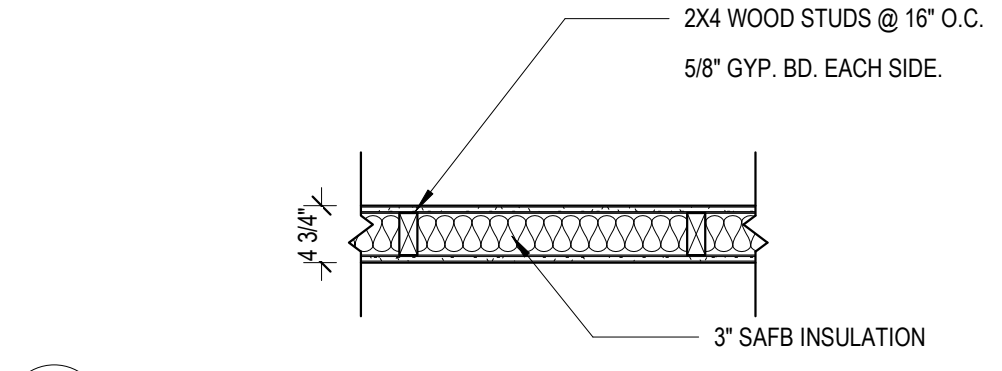
902 North Central Street  
 Knoxville, TN 37917  
 (865) 637-7009

**UNION COUNTY HEALTH DEPT. RENOVATIONS**  
 4355 MAYNARDVILLE HWY,  
 MAYNARDVILLE, TN 37807

**ABBREVIATIONS, SYMBOLS & NOTES**

Issue	Issued by	Drawn by	Date
RFC	AS	SHUD	06/21/2024

- NOTES:
- WALL TO EXTEND 6" ABOVE CEILING, U.N.O.
  - APPLY SEALANT ACOUSTIC:
    - INTERSECTION OF GYP. BRD. PANELS WITH FLOOR SLAB & AT ROOF DECKING.
    - JOINTS BTW. GYP. PANELS AND DISSIMILAR MATERIALS.
    - OUTLETS & OTHER WALL PENETRATIONS.
    - EXPANSION & CONTROL JOINTS.
  - STC RATINGS: 46 (BBN-70072)
  - FIRE-RATED WHERE INDICATED ON PLANS.  
 1 HR UL DES. U305  
 GYP BRD TO BE TYPE 'X'



112 WALL TYPE 'A'  
 G-001 3/4" = 1'-0"

a  
b  
c  
d  
e  
f  
g  
h  
j  
k  
l

**ZONING INFORMATION**

**PROJECT:** UNION COUNTY HEALTH DEPARTMENT  
4335 MAYNARDVILLE HIGHWAY  
MAYNARDVILLE, TN

**JURISDICTION:** MAYNARDVILLE, TENNESSEE

**PARCEL NUMBER:** 058 038.07

**ZONING:** B-2 (GENERAL BUSINESS DISTRICT)

**SPECIAL DISTRICTS:** N/A

**FLOOD PLAIN:** 'X'

**LOCAL HISTORIC DISTRICT:** N/A

**NATIONAL HISTORIC DISTRICT:** N/A

**DIMENSIONAL STANDARDS:** NOT APPLICABLE, EXISTING

**PARKING:**

	EXISTING
TOTAL	32 SPACES
TOTAL ACCESSIBLE SPACES NO. OF VAN ACCESSIBLE:	2 SPACES 2 SPACES
BICYCLE SPACES	0 SPACES

**CODE INFORMATION**

**PROJECT DESCRIPTION:**  
RENOVATION OF APPROX. 5,600, 1 STORY HEALTH DEPARTMENT FACILITY. NO CHANGE OF USE OR OCCUPANCY. RENOVATION TO CONSIST OF INTERIOR LAYOUT ADJUSTMENTS AND ADDITION OF A NEW EXTERIOR IMMUNIZATION CANOPY. WORK TO INCLUDE ARCHITECTURE, STRUCTURAL, MECHANICAL, ELECTRICAL, AND CIVIL.

**JURISDICTION:** MAYNARDVILLE, TENNESSEE

**CODES:**

- 2018 INTERNATIONAL BUILDING CODE
- 2018 INTERNATIONAL EXISTING BUILDING CODE
- METHOD: CLASSIFICATION OF WORK, ALTERATION - LEVEL 2
- 2018 INTERNATIONAL ENERGY CONSERVATION CODE
- 2017 EDITION OF THE NATIONAL ELECTRICAL CODE
- 2018 EDITION OF THE INTERNATIONAL FUEL GAS CODE
- 2018 EDITION OF THE INTERNATIONAL MECHANICAL CODE
- 2018 EDITION OF THE INTERNATIONAL PLUMBING CODE
- 2009 ICC / ANSI 117.1 - ACCESSIBLE AND USABLE BUILDINGS AND FACILITIES

**OCCUPANCY (CHAPTER 3):** B - BUSINESS

**SPECIAL DETAILED REQUIREMENTS (IBC CHAPTER 4):** N/A

**GENERAL BUILDING HEIGHTS AND AREAS (IBC CHAPTER 5):** NOT APPLICABLE, EXISTING

**FIRE SEPARATIONS (TABLE 508.4):** N/A

**FIRE SEPARATIONS (TABLE 509):**

- FURNACE ROOM (OVER 400,000 BTU) N/A
- BOILER ROOM (OVER 15PSI AND 10 HP) N/A
- LAUNDRY (OVER 100SF) N/A

**TYPES OF CONSTRUCTION TYPE (CHAPTER 6):**

**CONSTRUCTION TYPE (SECTION 602):** TYPE IIIB, UNSPRINKLERED

**FIRE-RESISTANCE RATING REQUIREMENTS FOR BUILDING ELEMENTS (HR) (IBC TABLE 601)**

BUILDING ELEMENT	TYPE IIIB
PRIMARY STRUCTURAL FRAME	0
BEARING WALLS	0
EXTERIOR	2
INTERIOR	0
NONBEARING WALLS AND PARTITIONS - EXTERIOR	0
NONBEARING WALLS AND PARTITIONS - INTERIOR	0
FLOOR CONSTRUCTION AND ASSOC. SECONDARY MEMBERS	0
ROOF CONSTRUCTION AND ASSOC. SECONDARY MEMBERS	0

**FIRE-RESISTANCE RATING REQUIREMENTS FOR EXTERIOR WALLS (IBC TABLE 602)**

**FIRE SEPARATION DISTANCE**

CONST TYPE	GROUP B
5<x-10	1

**FIRE AND SMOKE PROTECTION FEATURES (CHAPTER 7)**

FIRE WALLS (706)	N/A
FIRE BARRIERS (707)	N/A
FIRE PARTITIONS (708)	N/A
CORRIDORS (708.3)	N/A
FIREBLOCKS AND DRAFTSTOPS (708.4 - EXCEPTION)	N/A
SMOKE BARRIERS (709)	N/A
SMOKE PARTITIONS (710)	N/A
FLOOR AND ROOF ASSEMBLIES (711)	N/A
VERTICAL OPENINGS (712)	N/A
SHAFT ENCLOSURES (713)	N/A

**FIRE PROTECTION AND LIFE SAFETY SYSTEMS (CHAPTER 9)**

**AUTOMATIC SPRINKLER SYSTEMS (SECTION 903):**  
903.2 GROUP B: NOT REQUIRED

**PORTABLE FIRE EXTINGUISHERS (SECTION 906)**  
**SIZE AND DISTRIBUTION (906.3):** CLASS A, LOW HAZARD OCCUPANCY  
TYPE: 2-A:10-B:C (MULTI-PURPOSE, DRY CHEMICAL)  
SF/UNIT OF A: 3,000 SF;  
MAX. AREA: 11,250;  
MAX. TRAVEL DIST: 57'

**FIRE ALARM SYSTEM (SECTION 907):**  
907.2.2 GROUP B: NOT REQUIRED

**SMOKE CONTROL SYSTEMS (SECTION 909):** NOT REQUIRED

**MEANS OF EGRESS (CHAPTER 10)**  
**OCCUPANT LOAD (IBC TABLE 1004.5) - SEE LIFE SAFETY PLANS FOR SPECIFIC SPACES**

TOTAL	5,600SF	93 OCC.
-------	---------	---------

**MEANS OF EGRESS SIZING (SECTION 1005)**  
REQ'D MIN. EGRESS WIDTH PER PERSON SERVED (NONSPRINKLERED)  
STAIR: N/A  
OTHER COMPONENTS: 0.2 IN.OCC.  
MIN. CLR. EGRESS DOOR OPENING: 32" MIN.

**EXIT ACCESS TRAVEL DISTANCE (SECTION 1016)**  
MAX. TRAVEL DISTANCE (UNSPRINKLERED) (TABLE 1016.2): 200'

**CORRIDORS (SECTION 1018)**  
FIRE-RESISTANCE RATING (TABLE 1018.1): N/A, EXISTING  
MIN. WIDTH (TABLE 1018.2): 44"  
MAX. DEAD END CORRIDOR (1018.4) (UNSPRINKLERED): 20'

**NUMBER OF EXITS REQUIRED (SECTION 1021)**  
FIRST STORY ABOVE GRADE, OCC. < 500: 2

**PLUMBING SYSTEMS (CHAPTER 29)**

**MINIMUM NUMBER OF PLUMBING FIXTURES (TABLE 2902.1)**

MALE & FEMALE RATIO: 1:1

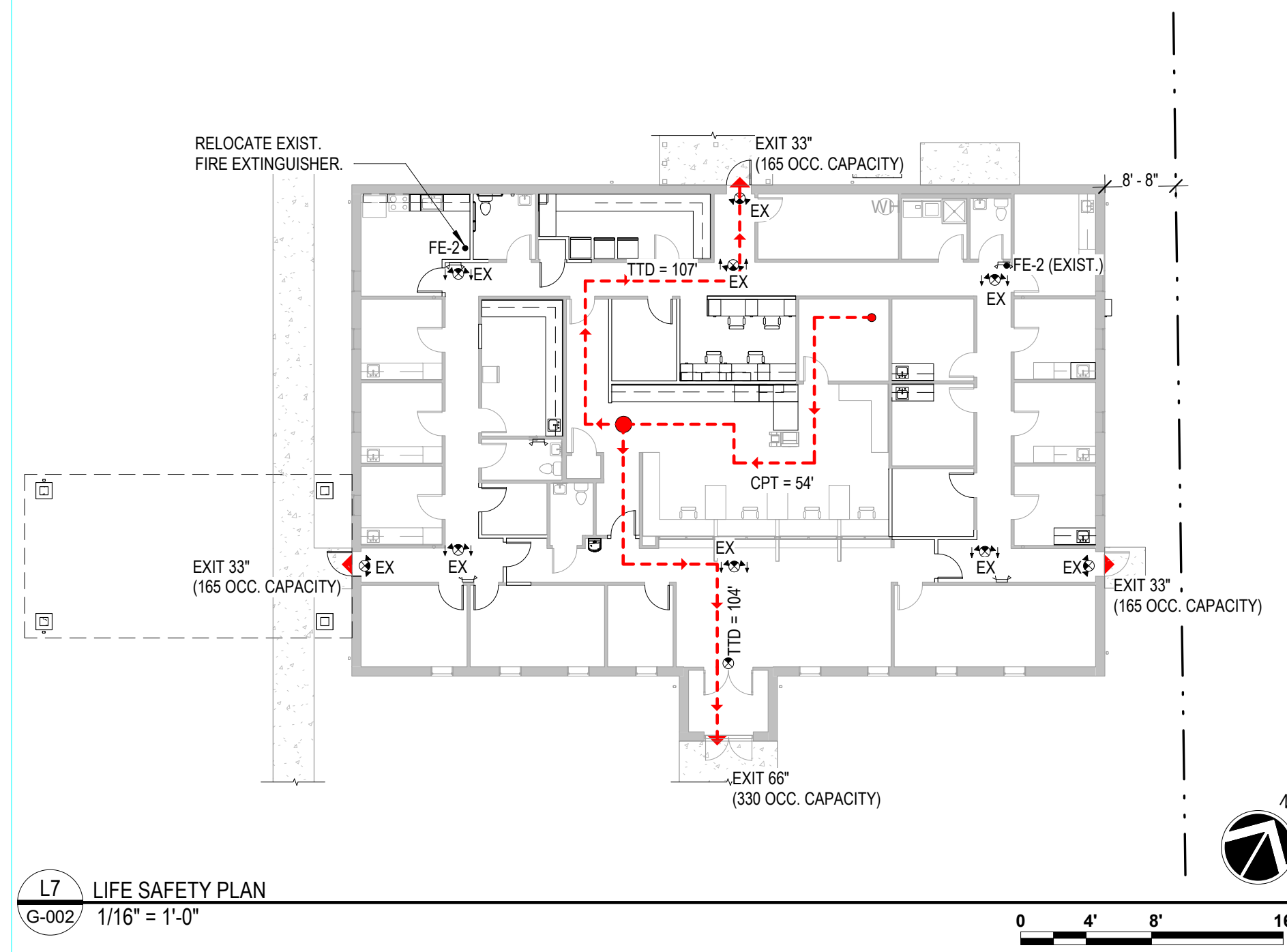
OCCUPANT LOAD: 93

	WC M/F	LAVS M/F	D.F.	SERV SINK
TOTAL REQUIRED:	3	3	1	1

**OCCUPANCY LOAD FACTOR TABLE**

ROOM NO.	ROOM NAME	OCC. TYPE	OLF	AREA	# OF OCC
101	ENTRY	B	1/150	73 SF	1
102	LOBBY	A	1/15	444 SF	30
103	COMMUNITY ROOM	A	1/15	245 SF	17
104	OFFICE	B	1/150	82 SF	1
105	EXAM	B	1/150	96 SF	1
106	EXAM	B	1/150	100 SF	1
107	EXAM	B	1/150	98 SF	1
108	EXAM	B	1/150	100 SF	1
109	EXAM	B	1/150	98 SF	1
110	OFFICE	B	1/150	110 SF	1
111	EXAM	B	1/150	124 SF	1
112	TOILET	S	1/SEAT	37 SF	1
113	JAN.	S	1/300	60 SF	1
114	MECH. ELEC. IT	S	1/300	137 SF	1
115	CORRIDOR	B	1/100	742 SF	8
116	NURSES STATION	B	1/150	142 SF	1
117	OFFICE	B	1/150	79 SF	1
118	CLERICAL	B	1/150	740 SF	5
119	PHARMACY	B	1/150	158 SF	2
120	BIO	S	1/300	8 SF	1
121	TOILET	S	1/SEAT	61 SF	1
122	BREAK RM	B	1/150	151 SF	2
123	LAB	B	1/150	167 SF	2
124	EXAM	B	1/150	97 SF	1
125	TOILET	S	1/SEAT	49 SF	1
126	EXAM	B	1/150	97 SF	1
127	CLERICAL STOR.	S	1/300	50 SF	1
128	EXAM	B	1/150	95 SF	1
129	MED SUPPLY RM	S	1/300	129 SF	1
130	OFFICE	B	1/150	164 SF	2
131	TOILET	S	1/SEAT	38 SF	1
132	OFFICE	B	1/150	80 SF	1
133	CORRIDOR	B	1/100	91 SF	1
TOTAL				5,600 SF	93 OCC.

NOTE: OVERALL USE AND OCCUPANCY NUMBERS ARE UNCHANGED FROM EXISTING.



L7 LIFE SAFETY PLAN  
G-002/ 1/16" = 1'-0"

**LIFE SAFETY NOTES**

- CONTRACTOR SHALL COMPLY WITH LOCAL, STATE AND FEDERAL CODES, REGULATIONS AND ORDINANCES. CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING PERMITS REQUIRED FOR CONSTRUCTION.
- AT FIRE-RATED PARTITIONS, THE SURFACE AREA OF INDIVIDUAL METALLIC OUTLET OR SWITCH BOXES SHALL NOT EXCEED 16 SQUARE INCHES. THE AGGREGATE SURFACE AREA OF THE BOXES SHALL NOT EXCEED 100 SQUARE INCHES PER 100 SQUARE FEET.
- BOXES LOCATED ON OPPOSITE SIDES OF WALLS OR PARTITIONS SHALL BE SEPARATED BY A HORIZONTAL DISTANCE OF NOT LESS THAN 24 INCHES.
- FIRE-RATED PARTITIONS SHALL BE TIGHTLY SEALED TO THE UNDERSIDE OF DECK. INTEGRITY OF FIRE-RATED PARTITIONS SHALL BE MAINTAINED AT CORNERS AND AT INTERSECTIONS WITH OTHER PARTITION TYPES.
- PENETRATIONS IN FIRE-RATED PARTITIONS BY CONDUIT, PIPING OR OTHER ITEMS SHALL BE FILLED WITH AN APPROVED NON-COMBUSTIBLE MATERIAL TO PROVIDE AN UL TESTED SEAL TO PROHIBIT THE PASSAGE OF FIRE AND SMOKE.
- FIRE-EXTINGUISHER(S) ARE REQUIRED IN THE SPACE PER NFPA 10. MOUNT CABINETS AND EXTINGUISHERS AT LOCATIONS SHOWN ON THE DRAWINGS OR AS DIRECTED BY THE FIRE MARSHALL AND/OR BUILDING INSPECTOR.

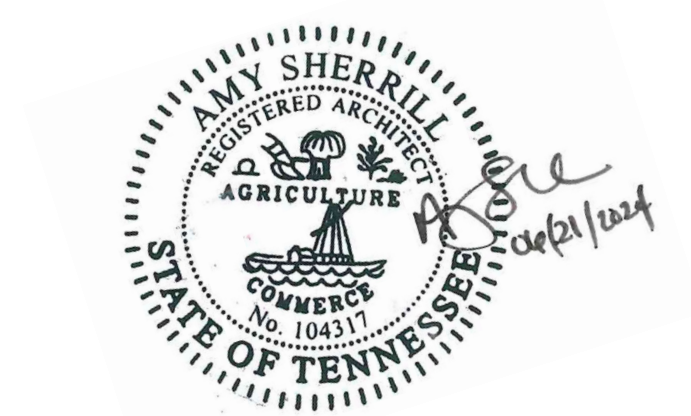
**REFERENCE SYMBOLS**

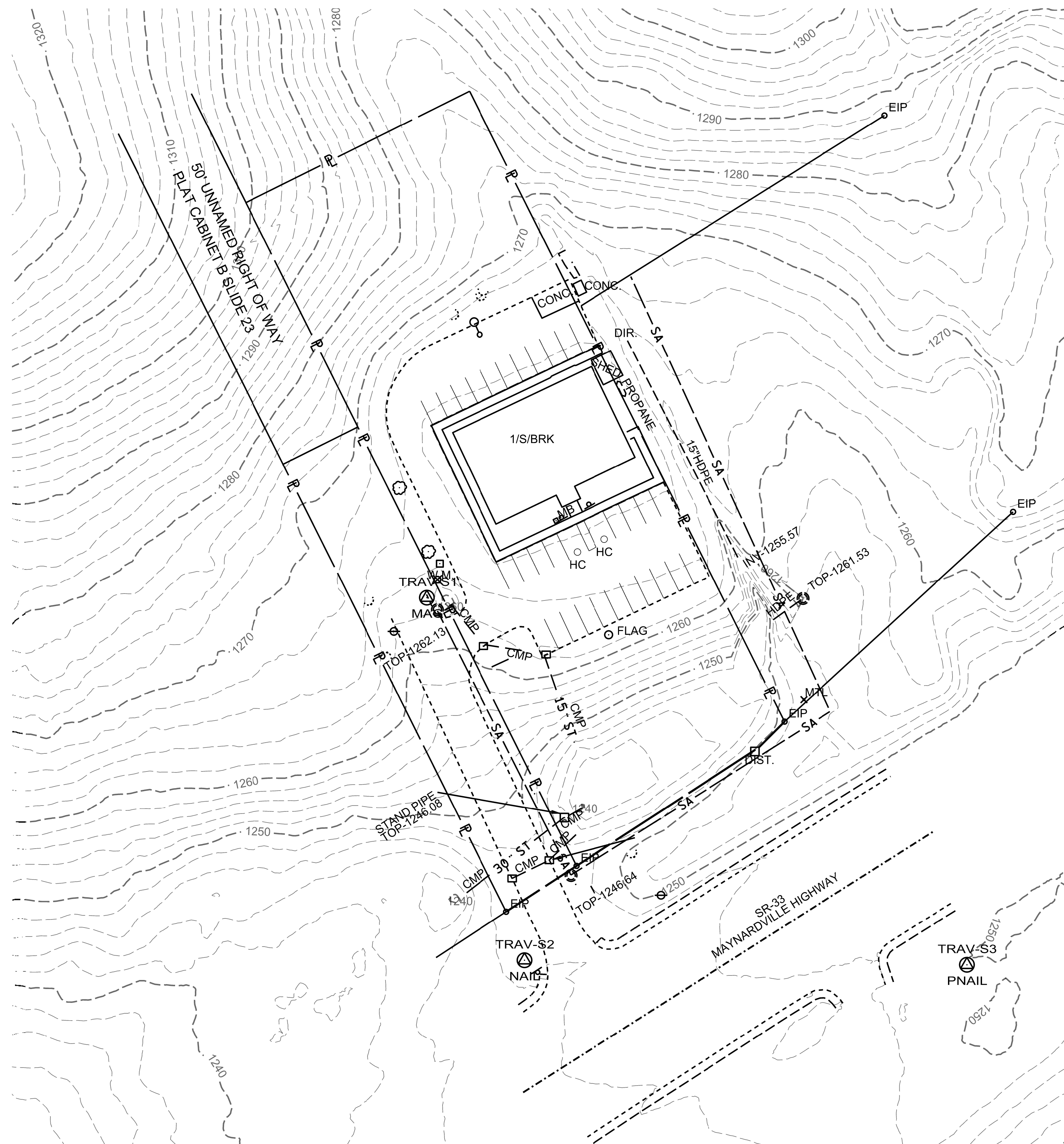
- EXIT 33" (165 OCC. CAPACITY)
- EXIT DISCHARGE (CAPACITY)
- TTD = X' PATH OF EGRESS (ARROW INDICATING DIRECTION OF TRAVEL)
- CPT COMMON PATH OF TRAVEL
- 32 OCC. ROOM OCCUPANCY
- FE-2 FIRE-EXTINGUISHER (BRACKET MOUNT)
- EX EXISTING EXIT SIGN
- EX EXISTING EXIT SIGN & LIGHT COMBO
- EX EXISTING EXIT SIGN & LIGHT, DOUBLE FACED
- EMERGENCY LIGHT (EXISTING)

**UNION COUNTY HEALTH DEPT. RENOVATIONS**  
4335 MAYNARDVILLE HWY,  
MAYNARDVILLE, TN 37807

**CODE ANALYSIS AND LIFE SAFETY PLANS**

Issue	Issued by	Drawn by	Date
RFC	AS	SHUD	06/21/2024





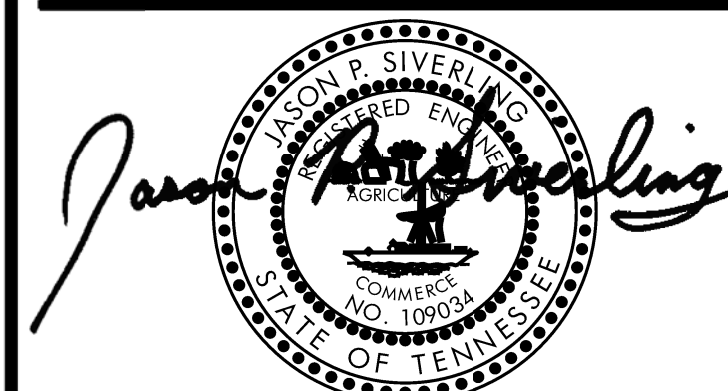
LEGEND

- EIP IRON PIN FOUND
- PIPE ● PIPE FOUND
- W.M. WATER METER
- ⊙ MANHOLE
- W.V. WATER VALVE
- ⊗ FIRE HYDRANT
- ⊕ P/T/C POWER/TELEPHONE/CABLE
- LIGHT POLE

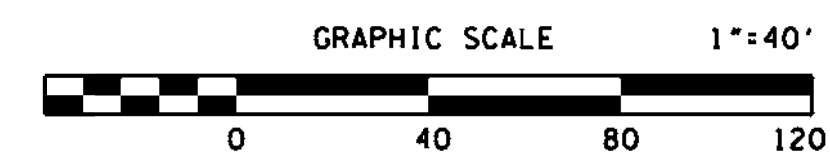
UNION COUNTY  
HEALTH DEPT.  
RENOVATIONS  
4335 MAYNARDVILLE HWY,  
MAYNARDVILLE, TN 37807

EXISTING CONDITIONS

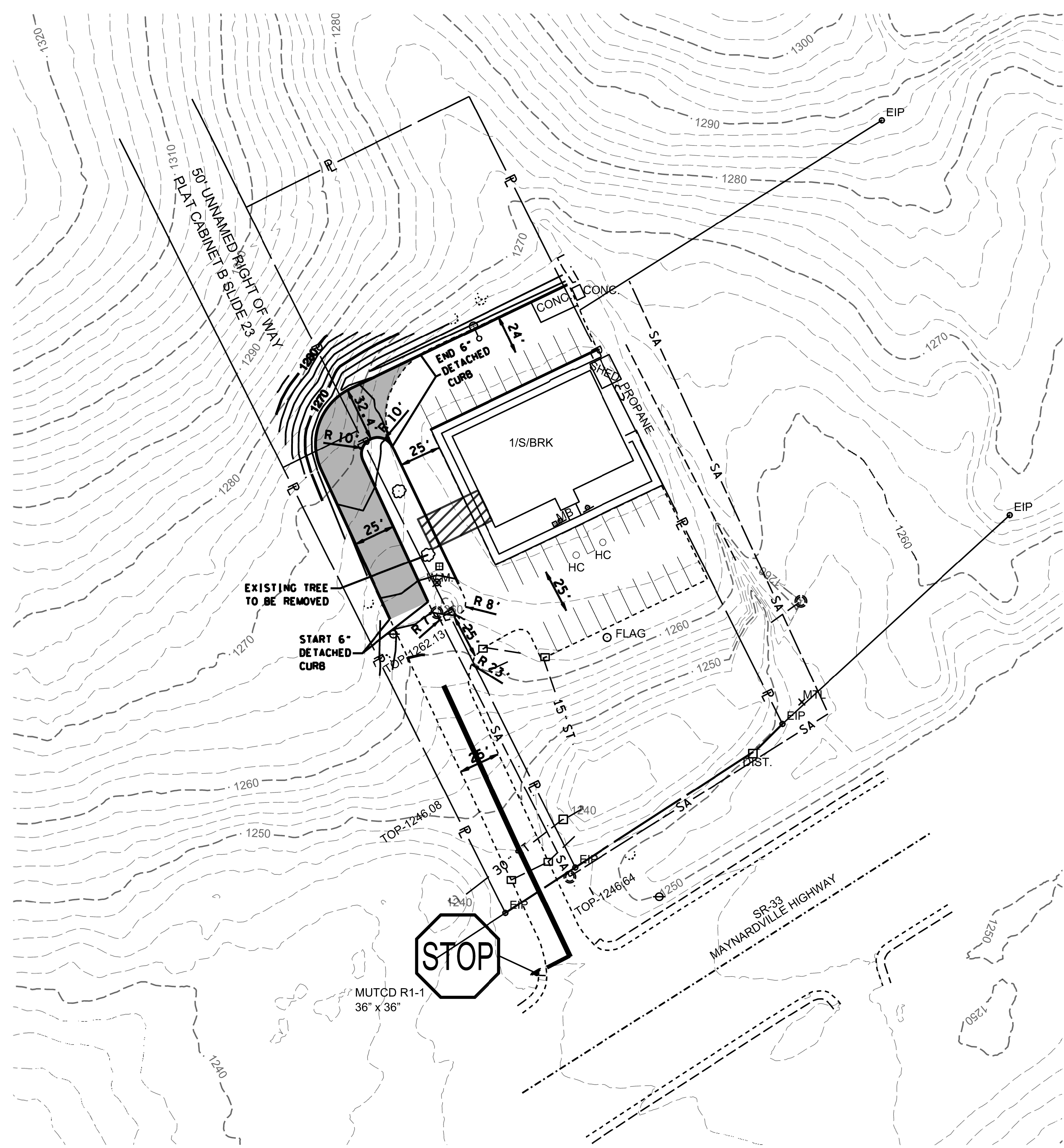
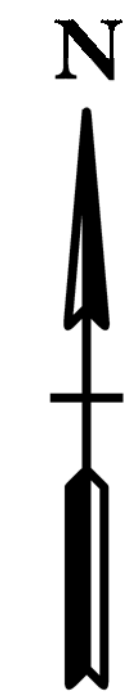
issue	issued by	drawn by	date
RFC	AS	SHUB	06/21/2024



06/21/2024



C-001

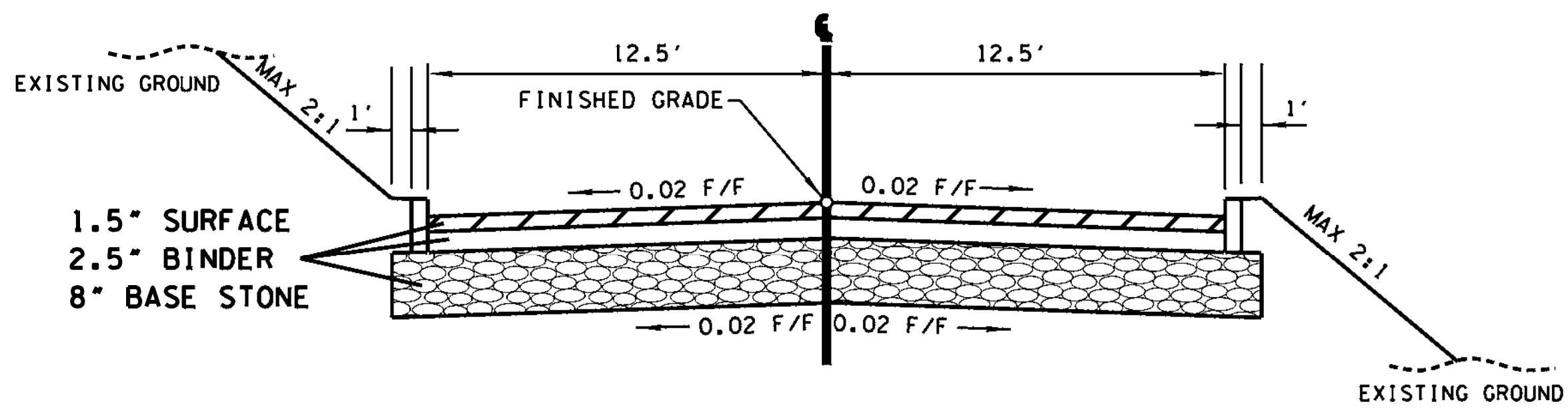


CANOPY DESIGNED BY OTHERS

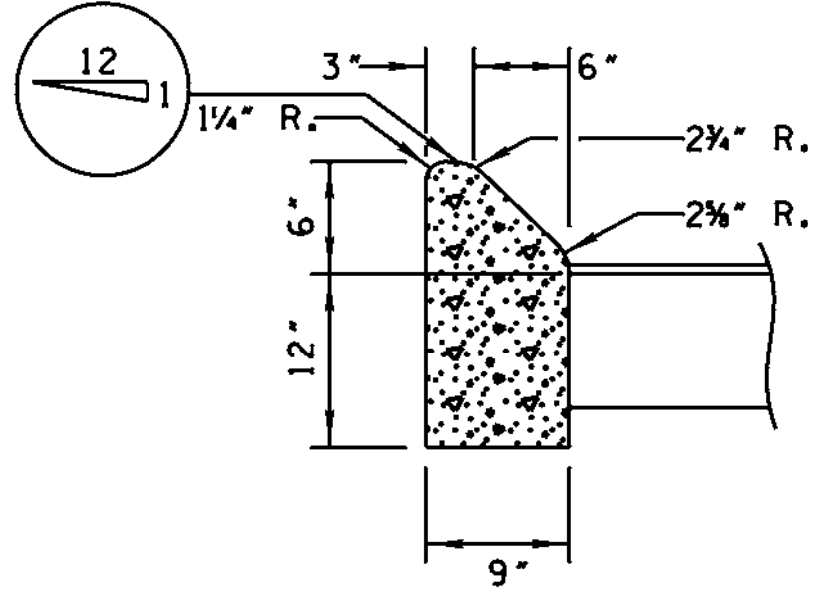
NEW PAVEMENT AREA

NOTES:

- 1) ALL SITE WORK IS BID ALTERNATE #3.
- 2) EXISTING CONTOURS BASED ON SURVEY BY RGCA.
- 3) LOCATIONS OF UNDERGROUND UTILITIES SHOWN ARE APPROXIMATE. THERE MAY BE OTHER UTILITIES NOT SHOWN. PRIOR TO ANY EXCAVATION, THE OWNER AND/OR CONTRACTOR IS RESPONSIBLE FOR CONTACTING THE LOCAL UTILITY AUTHORITIES FOR EXACT LOCATIONS AND DEPTHS.
- 4) CONTRACTOR IS RESPONSIBLE FOR ALL TRENCH SAFETY PRACTICES.
- 5) APPLY TEMPORARY SEEDING WHENEVER GRADING OPERATIONS ARE TEMPORARILY HALTED FOR OVER 14 DAYS AND FINAL GRADING OF EXPOSED SURFACES IS TO BE COMPLETED WITHIN ONE YEAR. APPLY TEMPORARY SEEDING TO SOIL STOCKPILES.
- 6) APPLY PERMANENT SEEDING WHENEVER GRADING OPERATIONS ARE COMPLETED AND ALL CONSTRUCTION OPERATIONS WILL NOT IMPACT THE DISTURBED AREA. APPLY PERMANENT SEEDING TO ALL NON-CONSTRUCTION AREAS WHICH SHOW SIGNS OF EXCESSIVE EROSION.
- 7) THE OWNER IS RESPONSIBLE FOR THE INSTALLATION AND MAINTENANCE OF CONSTRUCTION SITE POLLUTION PREVENTION CONTROLS THROUGHOUT THE LIFE OF THE PROJECT.
- 8) PLACE SILT-FENCE ALONG TOE OF CUT SLOPES.
- 9) LIMITS OF DISTURBANCE INCLUDES APPROXIMATELY 0.4 AC.



**TANGENT SECTION**  
(BASED ON STD. DWG. RD-TS-6A)



**6" MOUNTABLE DETACHED CONCRETE CURB TYPE "A"**

NOTE: FOR DETAILS NOT SHOWN, SEE STD. DWGS. Nos. RP-C-15 & RP-C-16.  
0.03818377 C.Y./L.F.  
TOTAL NEW CURB LENGTH = 335 L.F.

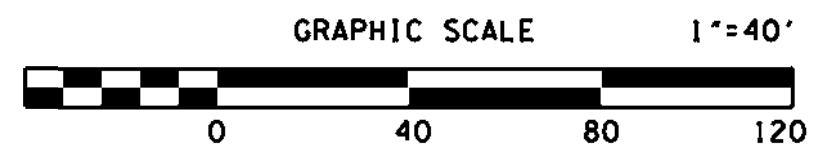
UNION COUNTY  
HEALTH DEPT.  
RENOVATIONS  
4335 MAYNARDVILLE HWY,  
MAYNARDVILLE, TN 37807

PROPOSED LAYOUT

issue	issued by	drawn by	date
RFC	AS	SHUB	06/21/2024

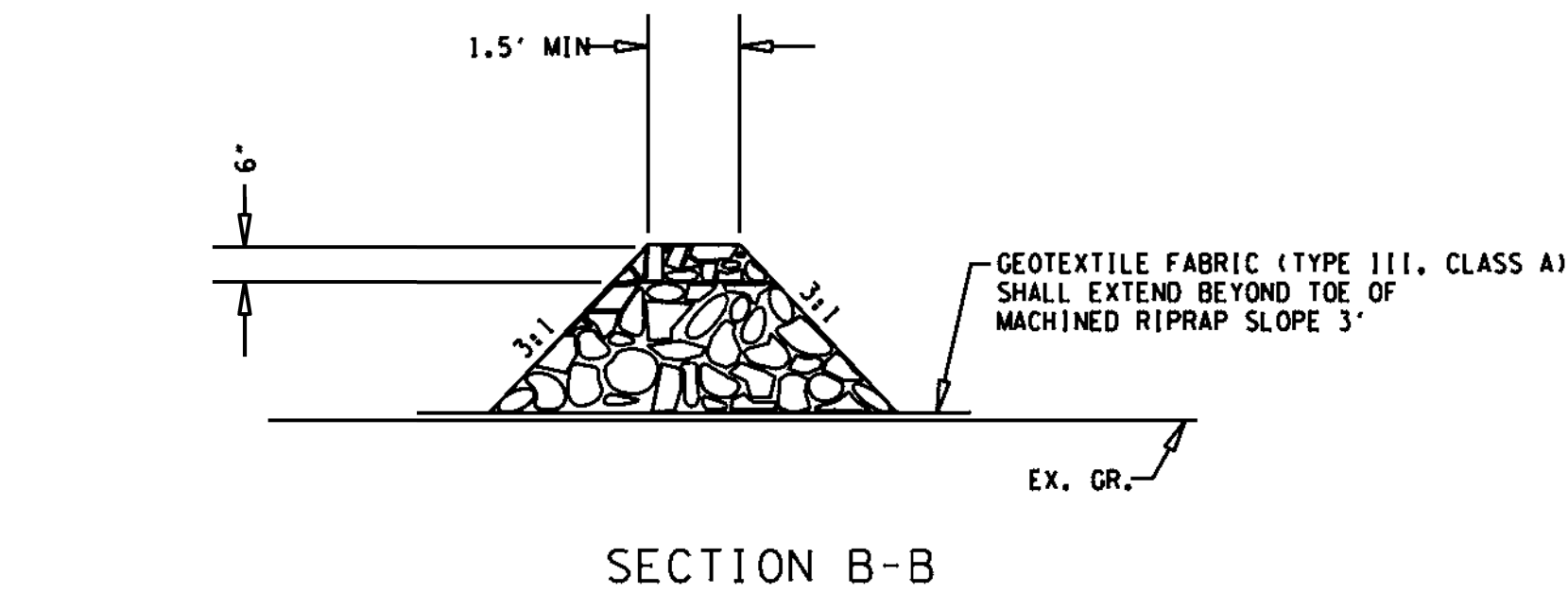
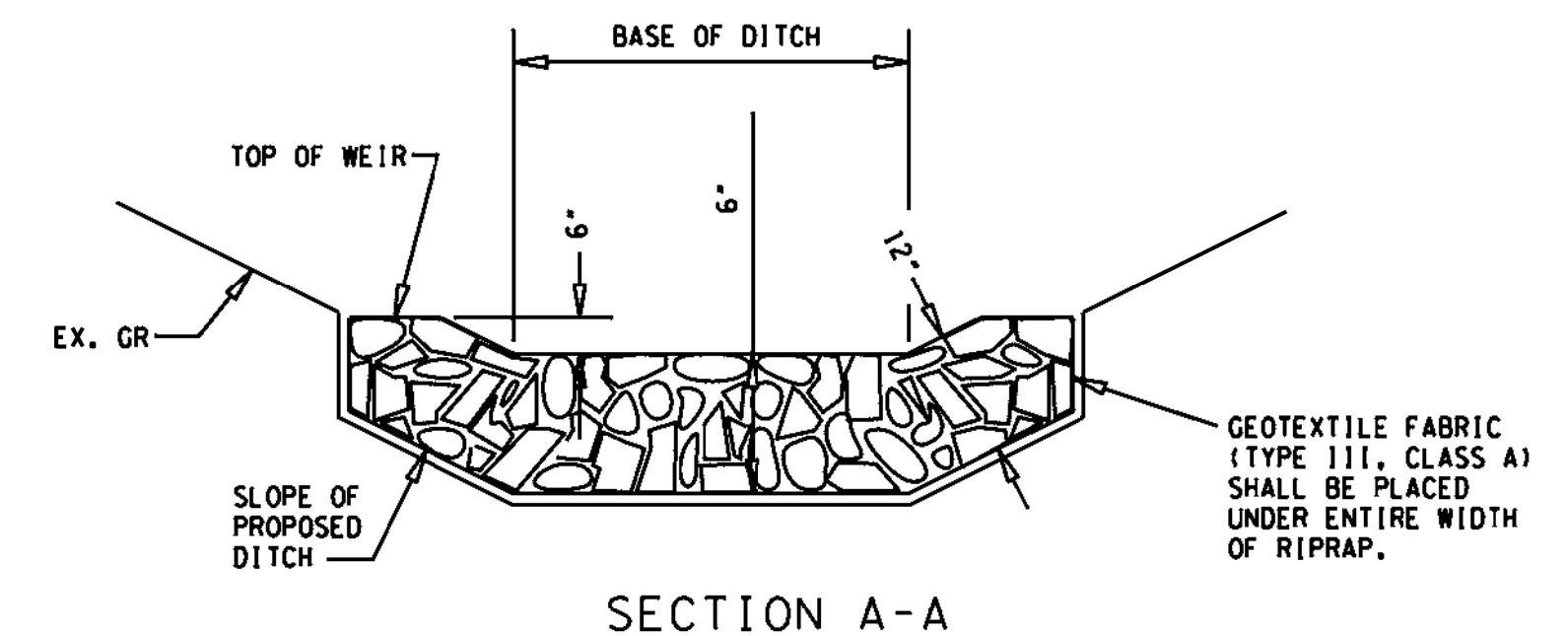
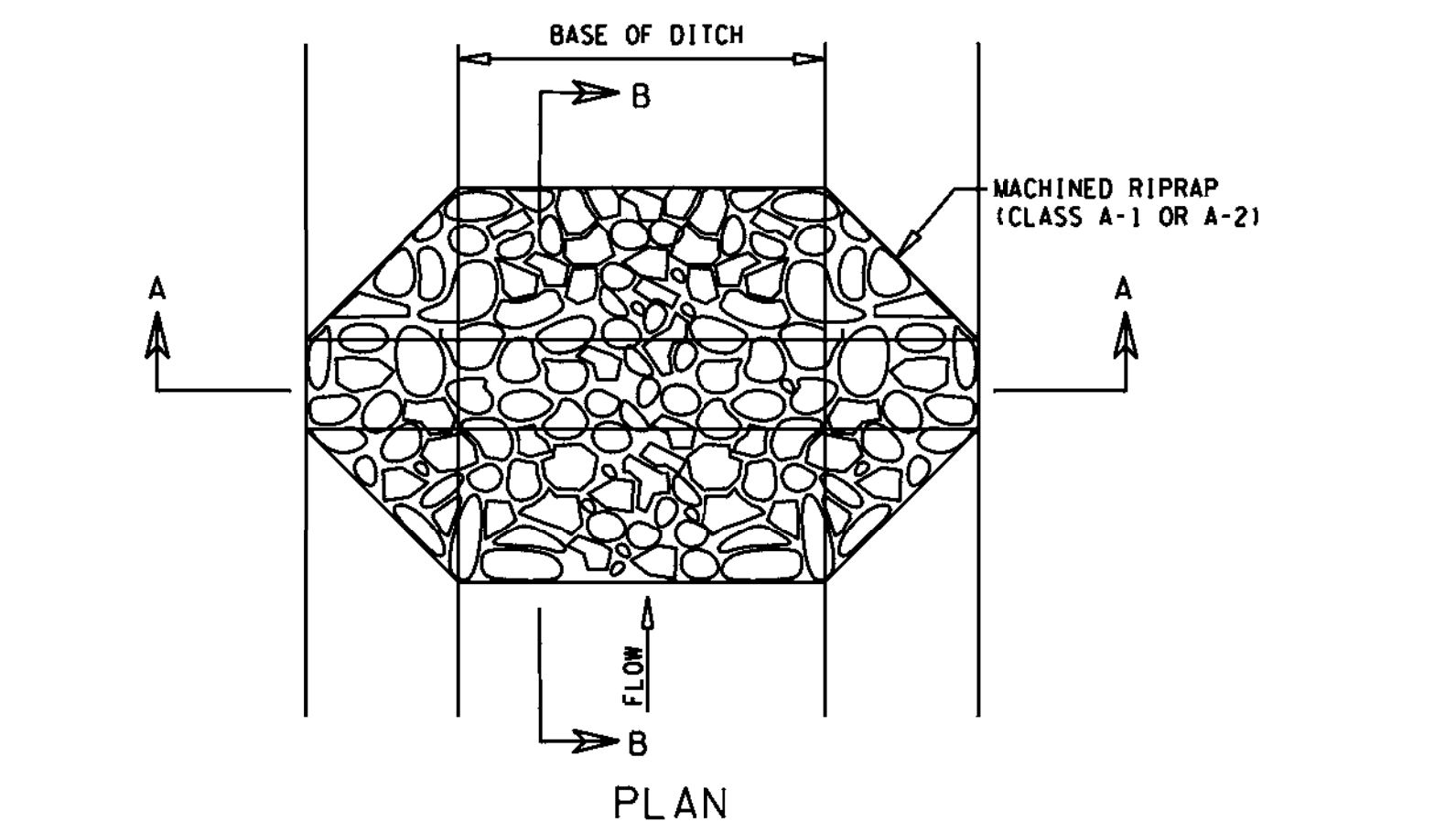
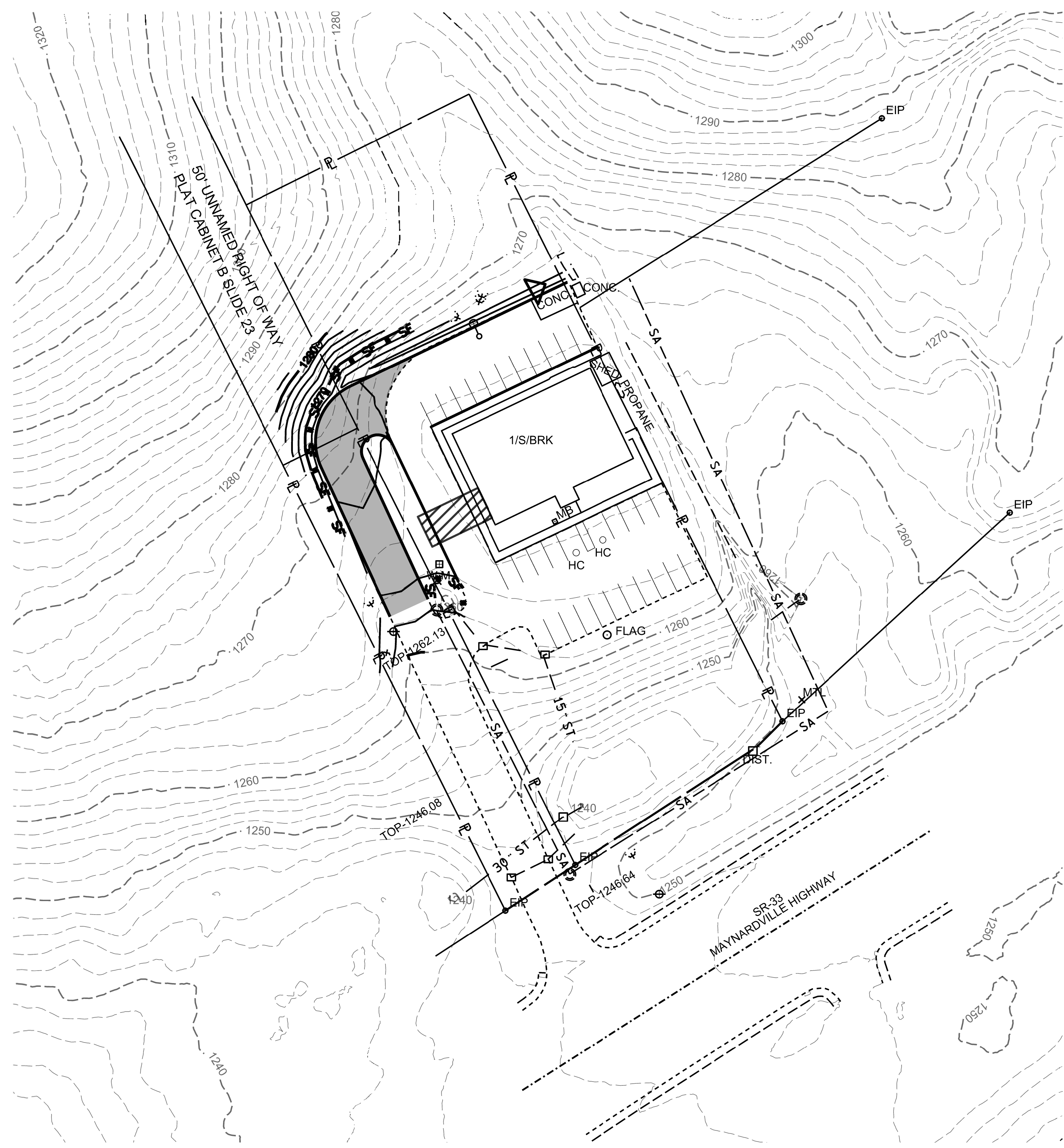


06/21/2024



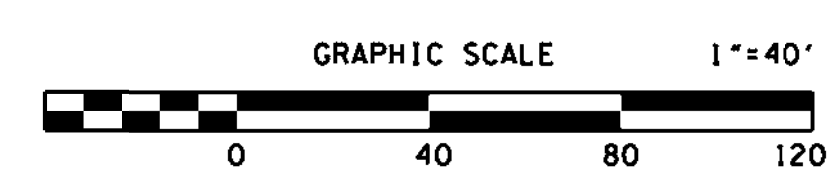
C-002

EROSION PREVENTION AND SEDIMENT CONTROL LEGEND		
SYMBOL	ITEM	TDOT STD. DWG.
• SF • SF • SF •	SILT FENCE	EC-STR-3B
◁	ROCK CHECK DAM (V-DITCH)	EC-STR-6



ROCK CHECK DAM DETAIL

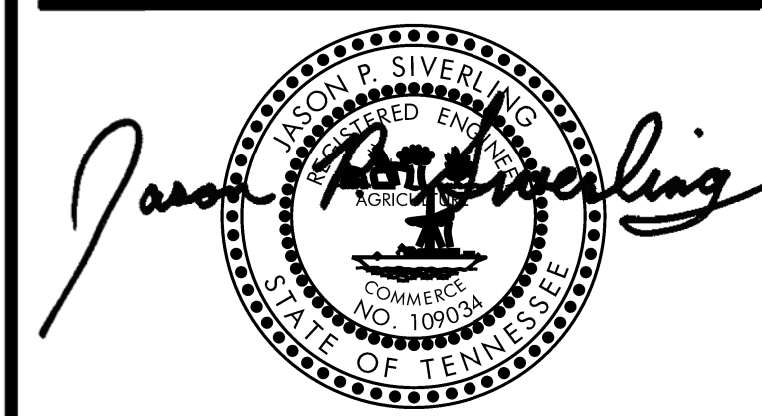
 CANOPY DESIGNED BY OTHERS  
 NEW PAVEMENT AREA



UNION COUNTY  
HEALTH DEPT.  
RENOVATIONS  
4335 MAYNARDVILLE HWY,  
MAYNARDVILLE, TN 37807

EROSION PREVENTION AND  
SEDIMENT CONTROL PLAN

issue	issued by	drawn by	date
BFC	AS	SHUB	06/21/2024



06/21/2024

C-003

**General Notes:**

- Design Code: International Building Code, 2018 Edition.
- No provisions have been made for future horizontal or vertical expansion.
- General Contractor shall verify all dimensions and conditions related to existing construction, existing services, and the site.
- Construction loads shall not exceed design live loads. Shoring and re-shoring is the responsibility of the General Contractor.
- The project is only stable in its completed form. The requirement for any and all bracing, shoring, or temporary supports and the planning sequences requiring them is the responsibility of the contractor.

*Arrow Engineering's Scope of Services:*  
 Arrow Engineering has been engaged to provide construction drawings for the proposed drive through canopy. Arrow has not performed a structural evaluation on the existing structure except as required for localized connections of the elements in this set of drawings. Arrow is not the Engineer of Record for the original structure.

**Design Data:**

Wind:	
Basic Design Wind Speed: V	105 mph
Allowable Stress Design Wind Speed: V <sub>all</sub>	90 mph
Risk Category:	Risk Category II
Wind exposure classification:	B
Internal Pressure Coefficient:	+ 0.18
Exterior C&C Pressure	25 psf

**Live Loads:**

Commercial:	
Typical Roof	20 psf

**Snow Load Data:**

Ground Snow Load: P <sub>g</sub>	10 psf
Flat Roof Snow Load: P <sub>f</sub>	10 psf (min)
Snow Exposure Factor: C <sub>e</sub>	1.0
Thermal Factor: C <sub>t</sub>	1.0
Snow Load Importance Factor: I <sub>s</sub>	1.0
Slope Factor(s): C <sub>s</sub>	1.0

**Seismic Load Data:**

Risk Category:	Risk Category II
Seismic Importance Factor: I <sub>e</sub>	1.00
Mapped Spectral Response Accel. Parameters:	S <sub>s</sub> = 0.499; S <sub>1</sub> = 0.118
Mapped Spectral Response Accel. Parameters:	S <sub>0.05</sub> = 0.466; S <sub>0.1</sub> = 0.186
Seismic Site Class:	D (assumed)
Seismic Design Category:	C
SFRS:	Ordinary Conc. Frame
Structure Weight:	Ex Building
Response Modification Coefficient: R	3.0
Seismic Response Coefficient: C <sub>s</sub>	1.1
Seismic Procedure Used:	ELFP

**Rain Load Data:**

15-Minute Rainfall Intensity:	5.80 in./hr
60-Minute Rainfall Intensity:	3.06 in./hr

**Construction Means & Methods:**

- Contractor assumes responsibility for job site conditions, including safety of all persons, property, and condition of materials, during the course of work and for the duration of the project. The contractor shall indemnify and hold Owner and Structural Engineer harmless from any and all liability, real or alleged, in connection with the performance of the work on this project, excepting for liability arising from the sole negligence of Owner or Structural Engineer.
- The structural engineers work as presented in these documents represents the finished structure. Where deemed necessary to convey the intent of the structural engineer's design, information regarding the existing structure may be provided on these documents; however it is the responsibility of the contractor to verify all existing conditions and dimensions. The contractor shall provide all measures necessary to protect the new and existing structure during construction. Such measures shall include, but not be limited to: protection of subgrade from freezing conditions, bracing of elements, shoring for loads due to construction equipment, temporary structures, and partially completed work. The contractor shall also assume responsibility for all temporary shoring, falsework, or required bracing to accomplish this work.
- Observation visits to the site by structural engineer shall not include inspection of any item and a third party inspector shall complete all required inspections of the site.
- The means and methods of construction rest solely in the responsibility of the contractor and the structural engineer has no control over or charge of these items nor shall not be responsible in any way for construction means, methods, techniques, sequences, or procedures, or safety or safety precautions and programs in connection with any construction activities, since these are solely contractor's responsibility.
- The structural engineer will not be held responsible for the contractor's schedule or ability to carry out any construction activities in accordance with the contract documents or their own agreed upon timeline with the owner. Nor shall the structural engineer have control over or charge of actions of Contractor, Subcontractor, or any of their Agents, or employees, or any other persons performing portions of any construction activities. All inquiries to the engineer that arise during construction and all submittal reviews shall be allotted 14 days for responses.

**Shop Drawing and Submittal Requirements:**

- The project manual shall govern all submittal requirements.
- The general contractor shall review, check, and stamp "Approved" all shop drawings prior to submitting them to the Architect. Shop drawings which have not been stamped "Approved" by the General Contractor do not conform to the requirements of the Contract Documents and will be rejected.
- The General Contractor shall provide a shop drawing submittal schedule for anticipated submittals at least two weeks prior to submittal of the first set of shop drawings.
- Submittals including shop drawings must be approved prior to the start of fabrication. All parties proceed at their own risk without approval on submittals. The maximum turn-around time for shop drawings will be two weeks (ten working days) from the date of receipt to Arrow Engineering to the date of return delivery. The general contractor is encouraged to communicate with Arrow on the need for faster approval times or when larger amounts of submittals are anticipated. All efforts will be made to expedite approval when requested.
- Reproducing Arrow's drawings in whole or in part for use in shop drawings is cause for rejection of the entire submittal. All shop drawings and details shall be original and complete.
- Electronic copies of Arrow's drawings may be available on a case-by-case basis for an additional charge. Requests for files must be submitted with as much lead time as other submittals.

An outline summary of the expected submittals and shop drawings is provided below (the requirements of the project manual, if provided, govern):  
 - Prefabricated wood roof truss shop drawings & calculations  
 - Concrete mix design  
 - Concrete rebar shop drawings  
 - Structural steel shop drawings

**Performance and Quality Requirements:**

- No provision of any referenced standard specification, manual or code (whether or not specifically incorporated by reference in the contract documents) shall be effective to change the duties and responsibilities of owner, contractor, engineer, supplier, or any of their consultants, agents, or employees from those set forth in the contract documents. Nor shall it be effective to assign to the structural engineer of record (or any of the structural engineer of record's consultants, agents, or employees) any duty or authority to supervise or direct the furnishing or performance of the work or any duty or authority to undertake responsibilities contrary to the provisions or the contract documents.
- Contractor shall review the project site and contract documents and warrants that it has the capacity to complete the project as planned for the project budget and within the timeline allotted to the owner.
- Contract documents include those which are published directly by Arrow Engineering including but not limited to, the structural documents (drawings and specifications). They do not include shop drawing, vendor drawings, or materials prepared and submitted by the contractor. Any acceptance of shop drawings or vendor supplied documents is for general conformance with Arrow's intent only.
- Reference to standard specifications or any technical society, organization, or association or to codes of local or state authorities, shall mean the latest standard, code, specification or tentative specification adopted at the date of taking bids, unless specifically stated otherwise.
- Where a conflict occurs within the contract documents to any recognizable material specification or building code, the strictest requirement shall govern.
- Contractor shall obtain and coordinate edge of slab and roof deck edge dimensions with other disciplines (which may include vendor supplied information only available after bidding), opening locations and size, depressed slab locations and extents, slab slopes, curb locations, and non-structural wall locations. Architect/Structural engineer shall be notified of any discrepancy or omission. In the event of discrepancies, the non-structural architectural details shall govern.
- The responsibility for all means, methods, sequences, techniques, and procedures used during construction is the responsibility of the contractor.
- Contractor has sole responsibility to comply with all OSHA regulations.
- The following list of items are not the responsibility of Arrow Engineering and have not been included in the scope of work (unless noted otherwise). These items are considered to be a delegated design under the responsibility of the contractors. All work for these items shall be completed under the direction of a licensed Professional Engineer in the state where the work is located and submitted to Arrow Engineering for approval prior to beginning work.
  - Steel, concrete pan, or timber framed stairs and their connections
  - Guardrail and handrail
  - Cold formed metal framing
  - Furnishing and finishes
  - Storage or shelf systems
  - Waterproofing or thermal envelope details below or above grade
  - Elevator rail and hoist coordination requirements

**Existing Conditions:**

- Where provided, dimensions related to existing conditions have been provided for general reference only based on assumed data, information from the original documents, previous design work, or information gathered during field investigations by Arrow Engineering. The information shown may not accurately depict all existing conditions related to construction.
- Contractor shall verify all existing dimensions and elevations and shall notify Arrow Engineering for any discrepancies.

**Timber & Carpentry:**

- All timber and carpentry work shall conform to National Design Specification for Timber Construction and generally acceptable criteria for finish carpentry work.
- Materials for structural elements such as joists, rafters, headers, and other horizontal members shall be Southern Pine No. 2 construction minimum, unless a higher grade is shown on the drawings.
- Materials for bearing walls shall be Southern Pine No. 3 construction or equivalent Douglas Fir-Larch unless shown otherwise on the drawings.
- Materials must be grade marked clearly with a 19% moisture content maximum and stored in dry conditions while on site.
- Laminated Veneer Lumber (LVL) and Parallel Strand Lumber (PSL) based on Weyerhaeuser "Trus Joist" type 2.0E grade with the following properties:  
 Fb: 2,600 psi  
 E: 2,000,000 psi  
 F<sub>c</sub> (perp.): 750 psi  
 F<sub>c</sub> (parallel): 2,510 psi  
 F<sub>v</sub>: 285 psi
- Plywood wall sheathing shall be APA rated CD interior with exterior glue. Thickness as shown on the drawings (unless required by different designers for specified areas). Span rating shall be 32/16. Nail sheathing with 8d common nails at 6" OC at all edges and 12" OC in field of each panel.

- All joists shall have either full height bridging or diagonal cross bridging at eight-foot maximum intervals along spans.
- Splices for multi-ply beams shall occur at supports with adequate bearing only. All multi-ply member beams shall be attached together by gluing and nailing with (4) 10d nails at 12" OC in rows. Nails shall penetrate through all plies. Flitch beams with steel plates shall be bolted together with 1/2" dia. hot-dip galvanized A307 thru bolts at 10" OC staggered from top to bottom unless otherwise noted.

**Structural and Miscellaneous Steel:**

- All structural steel work shall conform to the "Specifications for the Design, Fabrication, and Erection of Structural Steel Buildings" (14th Edition) of the AISC.
- Structural steel shall conform to the following:  
 - Wide flange shapes and WT's: ASTM A992, Fy = 50 ksi  
 - Channels, Angles, Plates: ASTM A36, Fy = 36 ksi  
 - HSS Square Tubes: ASTM A500 Gr. C, Fy = 50 ksi  
 - HSS Round Tubes: ASTM A500 Gr. C, Fy = 46 ksi  
 - Pipe: ASTM A53, Fy = 35 ksi
- All bolts shall be ASTM A307 or ASTM A325 type per specified connection criteria of either slip-critical or bearing type. All bolts shall be matched with a nut and washer of the appropriate grade and size. Use slip critical connections for all wind bracing connections or connections subject to load reversal. Threads shall be included in the shear plane unless certified by Arrow Engineering or Connection Design Engineer.
- All bolted connections shall be made according to the AISC Manual Part 9. All connections shall be a minimum of half the depth of the beam. Where beams frame into columns, a full depth connection shall be used. Minimum thickness of any connection plate or angle shall be 3/8" unless noted otherwise.
- The use of slotted holes for bolted connections to aid in erection is permitted in specific locations with explicit approval from Arrow Engineering. Slotted hole dimensions must be sized per the specification of the AISC manual for long or short slotted holes. Where slotted holes are used, the bolt must be welded into place after erection or must be designed as a slip-critical connection. Requests to change the contract documents once completed to accommodate slip-critical connections where they were originally designed as bearing may incur additional charges.
- All welding shall be in strict accordance with the standards of the AWS D.1.1 and the AISC Manual. Use E70XX electrodes.
- All steel to be shop primed or galvanized. Do not paint steel where encased in concrete or at field weld areas. All exterior steel including that which is installed outside of the controlled building envelope is to be galvanized unless noted otherwise per ASTM A123 and A780.
- No shop or field holes or cuts are to be placed in structural members unless indicated on the contract or shop drawings.
- The structural steel fabricator shall field verify all dimensions prior to fabrication. Particularly for stairs, handrail systems, etc. or at connections to existing or previously constructed items. It is the contractor's responsibility to verify dimensions and conditions at the site which may affect installation or erection of steel members. Shop drawings shall include inclusion of field measurements.
- The structural steel fabricator shall provide for vertical and horizontal adjustment of all support assemblies.
- Anchor bolts must meet ASTM A1554 gr. 36 specifications and be 3/4" diameter (unless otherwise indicated). A minimum of (4) anchor bolts are required at each baseplate unless noted otherwise.
- Unless directed by the owner with consideration from Arrow Engineering, the steel fabricator shall be certified under the AISC quality Certification Program.

- Prefabricated timber trusses shall be fabricated by a certified timber truss manufacturer.
- Trusses shall be fabricated with wood chords and webs in accordance with the National Design Standards for Metal Plate Connected Wood Truss Construction, ANSI/TPI 1, latest Edition, by the Truss Plate Institute. Any prefabricated trusses must be certified by a Professional Engineer licensed in the state where the project is located. Engineer's approval and seal shall be submitted as part of the truss shop drawing submittal.

- Contractor shall provide and install all necessary bracing for timber trusses, bracing shall be in accordance with the recommendations for bracing wood trusses, publication H1B, latest edition, by the Truss Plate Institute.
- At building ends, special gable-end trusses shall be used. Trusses shall be designed and fabricated with vertical studs no more than 16" OC. At gable end walls, studs shall be balloon framed to the bottom of the trusses.

- Plans and details for framing are a schematic representation of the framing at various locations and conditions on this project. The contractor shall not scale or count framing members shown as a substitute for shop drawings and an accurate quantity takeoff. The Contractor is responsible for providing all framing necessary to completely frame the project and provide for all conditions shown on the architectural drawings.

- All unspecified connections to be made according to the International Residential and Building Code Empirical design criteria. Joist and rafter hangers, ties, hold-downs and other pre-engineered connectors shall be "Simpson Strong-Tie" or approved equal. Size and usage shall be as shown on the drawings, specified in these notes and as recommended by the manufacturer. All connectors shall be post hot-dip galvanized coated after fabrication or stainless steel.

- Install a Simpson "H2.5A" metal tie at the top and a Simpson "H3" metal tie at the bottom of every exterior stud where the stud joins the top plate and sill plate, where an "H2.5A" metal tie is required at truss ends. Install two (2)- "H3" metal ties at the bottom of every exterior stud where the stud joins the sill plate, where "H10" ties are required at truss ends. Doubled up clips shall be installed diagonally across from each other on opposite sides of the top plate or bottom sill plate.

- All timber outside the building envelope shall be pressure treated. All connections outside the building envelope shall be made with hot-dip galvanized bolts or nails.

**Foundation and Footings:**

- Foundation design is based on assumptions of the existing site conditions. Without a geotechnical report, the owners accepts responsibility of unknown conditions below grade that may cause settlement or undesired movement of the building. Contractor is responsible for verifying the conditions described below are accurate and can be achieved.
- As excavation occurs on the project site, unforeseen conditions may become evident. Arrow Engineering reserves the right to redesign the foundations as required if unforeseen geotechnical conditions are discovered.
- The foundations for this project are spread and/or continuous bearing footings. If suitable soil is not encountered (suitable being defined as soil of the type and characteristics of that which the foundation recommendations within the Geotechnical Report are based on), it is required that the contractor over excavate until such bearing can be assured - or as directed by the project's Geotechnical Engineer of Record - and a lean concrete pad be placed between the strata of suitable soil and the recommended bottom of footing elevation. Lean concrete used here shall have a minimum 28-day compressive strength of 3,000 PSI or better. The dimension of this pad shall be at least the same dimensions of the footing in question. The spread foundations for this project were designed with an allowable bearing capacity of 2,000 PSF.
- Contractor is responsible for notifying Arrow Engineering of any unusual soil conditions that are in variance with the test borings which also includes ground water, substandard bearing material, or obstructions.
- All below grade foundation walls are to be considered stable only when supported at the next floor level and backfilling against them until such framing is in place is prohibited unless otherwise noted. In lieu of connection to the framing above, temporary shoring or bracing may be utilized. The design of such shoring is the responsibility of the contractor and must be approved by Arrow Engineering prior to its conception. Any shoring used must be designed and sealed by a Professional Engineer in the state where the project is located and evidence of such submitted to Arrow for approval.
- The backfill behind all foundation walls has been assumed to be 'dry' granular type with a maximum density of 75 pcf. A continuous foundation drain is required behind all below grade walls even if not shown on the structural drawings. Notify engineer if these assumptions are not followed.
- All recommendations of the Geotechnical Report must be adhered to.
- "Wet setting" of reinforcing or anchor bolts is prohibited. All reinforcing or anchor bolts must be securely placed prior to pouring.
- The subgrade under slabs-on-grade and foundations must be compacted to 98% of optimum laboratory density in accordance with ASTM D698 Standard Proctor Method. Place fill in 6" to 8" lifts and compact with vibratory tamping equipment. The provisions of the geotechnical report govern for any exceptions to this requirement.
- Contractor shall locate all underground utilities prior to beginning excavation.
- When excavations approach the ground water level, the water level shall be continuously lowered by an acceptable dewatering system so that the water level is maintained continuously a minimum of 2'-0" below the excavation.
- Shale containing pyrites must be protected as indicated in the Geotechnical Report. Structural fill must be screened and shall not contain any pyrites in it.

**Structural Concrete:**

- Cast-in-place concrete work shall conform to the American Concrete Institute 318-14. The minimum compressive strength of all concrete used in this project shall be 3,000 psi.
- The air content of all concrete exposed to freezing and thawing or where required to be watertight shall be 4.5%-7.5%. All other applications shall be 3%-4%.
- The water to cement ratio for all concrete subjected to freezing and thawing in moist conditions or required to be watertight shall have a maximum water-cement ratio of 0.45. All reinforced concrete exposed to deicing salts, brackish water, seawater, or spray from these sources shall have a maximum water-cement ratio of 0.40. All water used in concrete mixes (including that which is added at the site) must be potable and accounted for in the mix design published by the supplier.
- Maximum aggregate size shall be 1 1/2", well graded, well-shaped (not elongated, flat, or slippery), and free of clay, dirt, and excess fines, U.N.O. Aggregate composition shall consist of quartz, limestone, dolomite, granite, or feldspar.
- All cement shall be type 1 unless noted.
- The maximum slump of any concrete shall be less than 3" unless noted.
- All reinforcing to be ASTM A615, Grade 60.
- The welded wire fabric used in floor slabs shall be ASTM A185. All wire mesh must be supported adequately during pouring to prevent sag under the weight of concrete or construction personnel. Provide 6x6-w2.9x2w2.9 welded wire fabric in all non-structural slabs on grade, unless otherwise noted.
- All reinforcing shall be located a minimum amount of 'cover' from the surface according to the following:  
 All bars cast against or exposed to earth .....3 inches  
 No. 5 bars or larger exposed to weather.....2 inches  
 No. 5 or smaller bars exposed to weather.....1.5 inches  
 No. 14 or larger bars in other applications.....1.5 inches  
 No. 11 or smaller bars in other applications.....0.75 inches
- Provide joints in all slabs-on-grade at a maximum spacing of 30 times the thickness of the slab. Control joints to be formed or cut to a depth of 1/5 the slab thickness. Control joints not required in footings or in elevated slabs unless otherwise noted.
- Reinforcing bar lap splices and anchorage lengths shall conform with ACI 318-14. All splices shall be Type B.
- Top layer of reinforcing steel in slabs and footings shall be considered top bars regardless of thickness of concrete below the bars.
- Provide standard lap splice at all horizontal bars in corners and intersections.
- Where not explicitly defined, all slabs and walls shall have minimum reinforcement per ACI 318-14 accounted for in their construction.
- See architectural drawings for finish requirements including edge conditions. Curing practices may need to accommodate certain floor finishes which should be coordinated prior to pouring. Chamfer / tool any exposed edge of concrete with 1/2" chamfer unless otherwise noted.
- Contractor shall coordinate the location of all embeds, conduits, anchor bolts, etc., with other disciplines prior to pouring any concrete in which these items are located.
- The Contractor shall prepare shop drawings showing detail layouts of reinforcing, including dimensions, openings, and spacing, bending details, bar schedules, and similar items required for the proper construction of the work. Provisions for the connection of work by other trades shall be indicated on the shop drawings. The location of all embedded items shall be indicated by the contractor on the shop drawings. All shop drawings shall be submitted for approval in accordance with the requirements of the Contract Documents.
- Preparing, curing, transporting, and testing concrete cylinders. For each class of concrete placed, at least four cylinders shall be taken for each 50 cubic yards, or fraction thereof, of each class of concrete placed each day. Cylinders are to be taken in accordance with ASTM C31 and results shall be submitted to the Architect/Engineer, Construction Manager and owner. Two cylinders will be tested at 7 days and two at 28 days.
- Structural concrete shall meet a SOV Floor Flatness (F1) of 25 and MLV Floor Levelness (F1) of 20 unless otherwise noted.
- Control joints should be placed within 12 hours of pour to prevent undesired internal cracks from forming.

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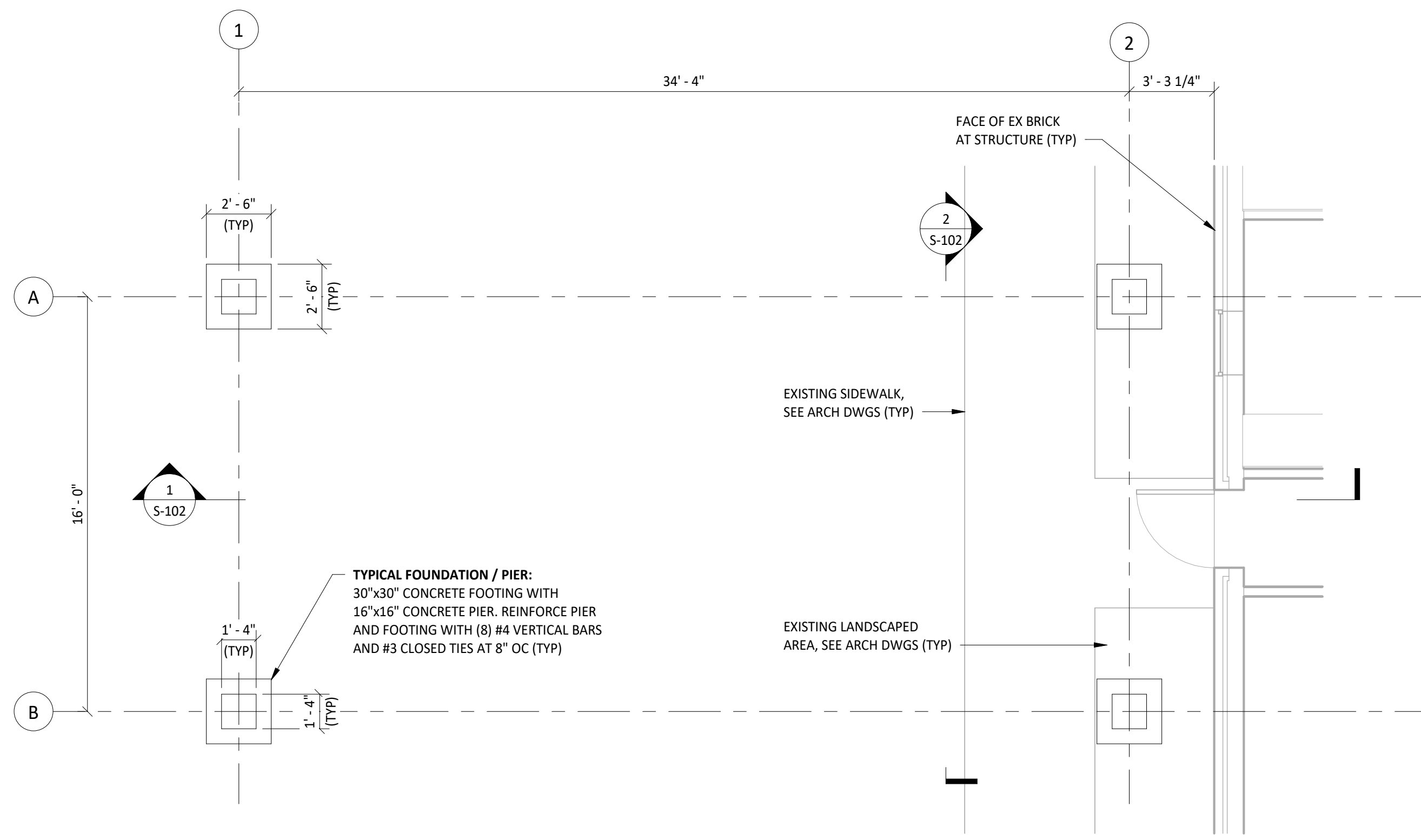
**UNION COUNTY  
 HEALTH  
 DEPARTMENT  
 4335 MAYNARDVILLE HWY,  
 MAYNARDVILLE, TN 37807**

**GENERAL NOTES**

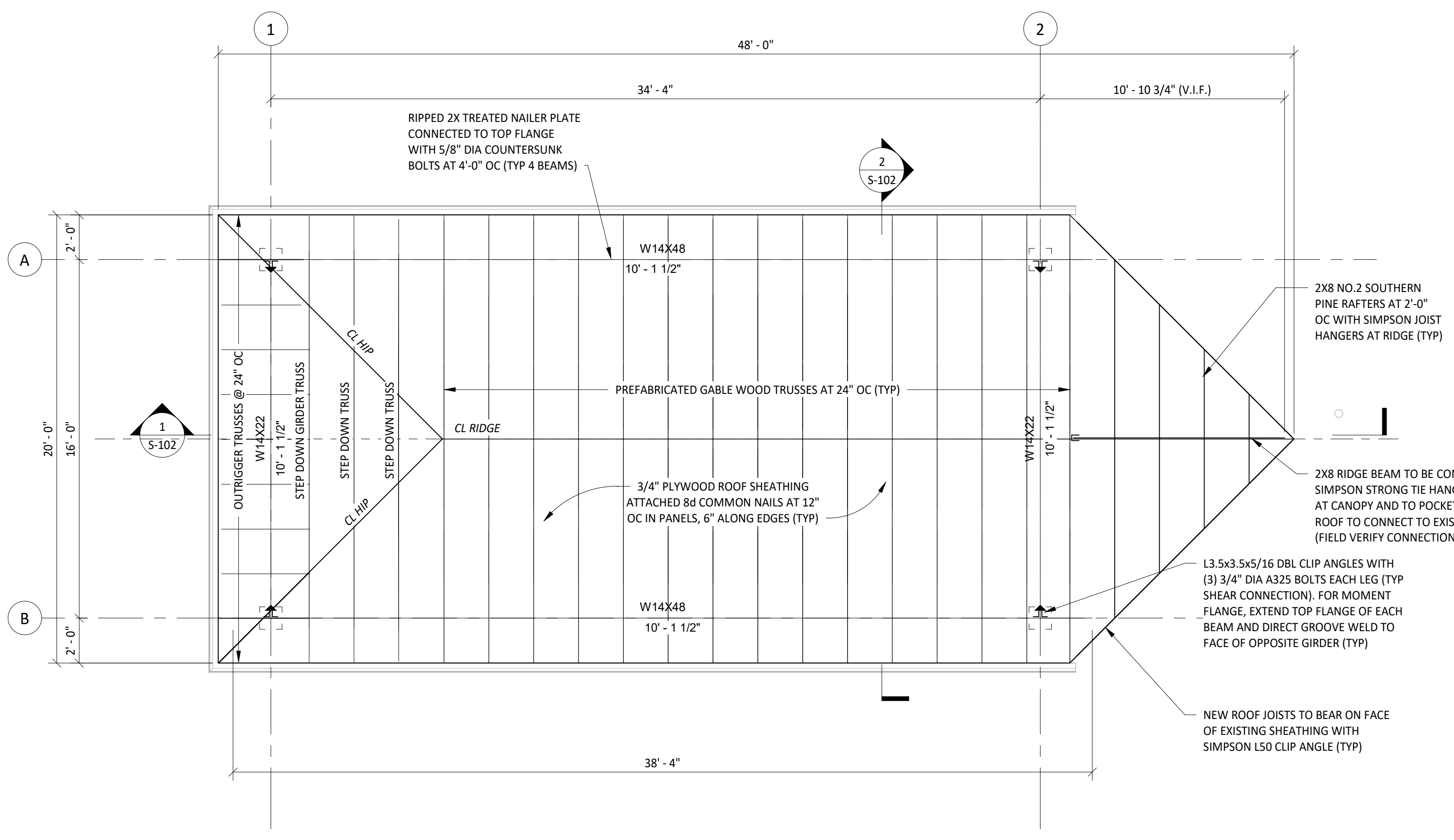
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S-001



PLAN  
NORTH



PLAN  
NORTH

- TYPICAL TRUSS NOTES:**
- SEE STRUCTURAL PLAN AND OR SECTIONS FOR INTENDED BEARING POINTS. SEE ARCHITECTURAL DRAWINGS FOR EAVE DETAILS AND SLOPE. TRUSS SUPPLIER IS RESPONSIBLE FOR COORDINATING END TRUSS CONFIGURATIONS AND BRIDGING, EVEN IF THEY ARE NOT SPECIFIED ON DRAWINGS.
  - PRE-FABRICATED TRUSSES TO BE DESIGNED AND BUILT BY A CERTIFIED TRUSS MANUFACTURER WITH DRAWINGS AND CALCULATIONS PREPARED BY A STRUCTURAL ENGINEER REGISTERED IN THE STATE WHERE THE PROJECT IS LOCATED AND SUBMITTED FOR REVIEW PRIOR TO FABRICATION OF WOOD TRUSSES.
  - THE REQUIREMENTS OF THE TRUSS PLATE INSTITUTE HIB-91 "COMMENTARY AND RECOMMENDATIONS FOR HANDLING, INSTALLING, AND BRACING OF METAL PLATE CONNECTED WOOD TRUSSES" SHALL GOVERN ALL BRACING, HANDLING, AND ERECTION OF TRUSSES.
  - TYPICAL ROOF TRUSS DESIGN LOADS (DOES NOT INCLUDE WEIGHT OF TRUSS):  
TOP CHORD DEAD LOAD 10 PSF  
TOP CHORD ROOF LIVE LOAD 20 PSF  
TOP CHORD SNOW LOAD 10 PSF  
BOTTOM CHORD DEAD LOAD 5 PSF
  - TRUSS SUPPLIER IS ALSO RESPONSIBLE FOR COORDINATING THE REQUIREMENTS FOR NON-SPECIFIED CONCENTRATED LOADS SHOWN ON OTHER DISCIPLINES DRAWINGS.

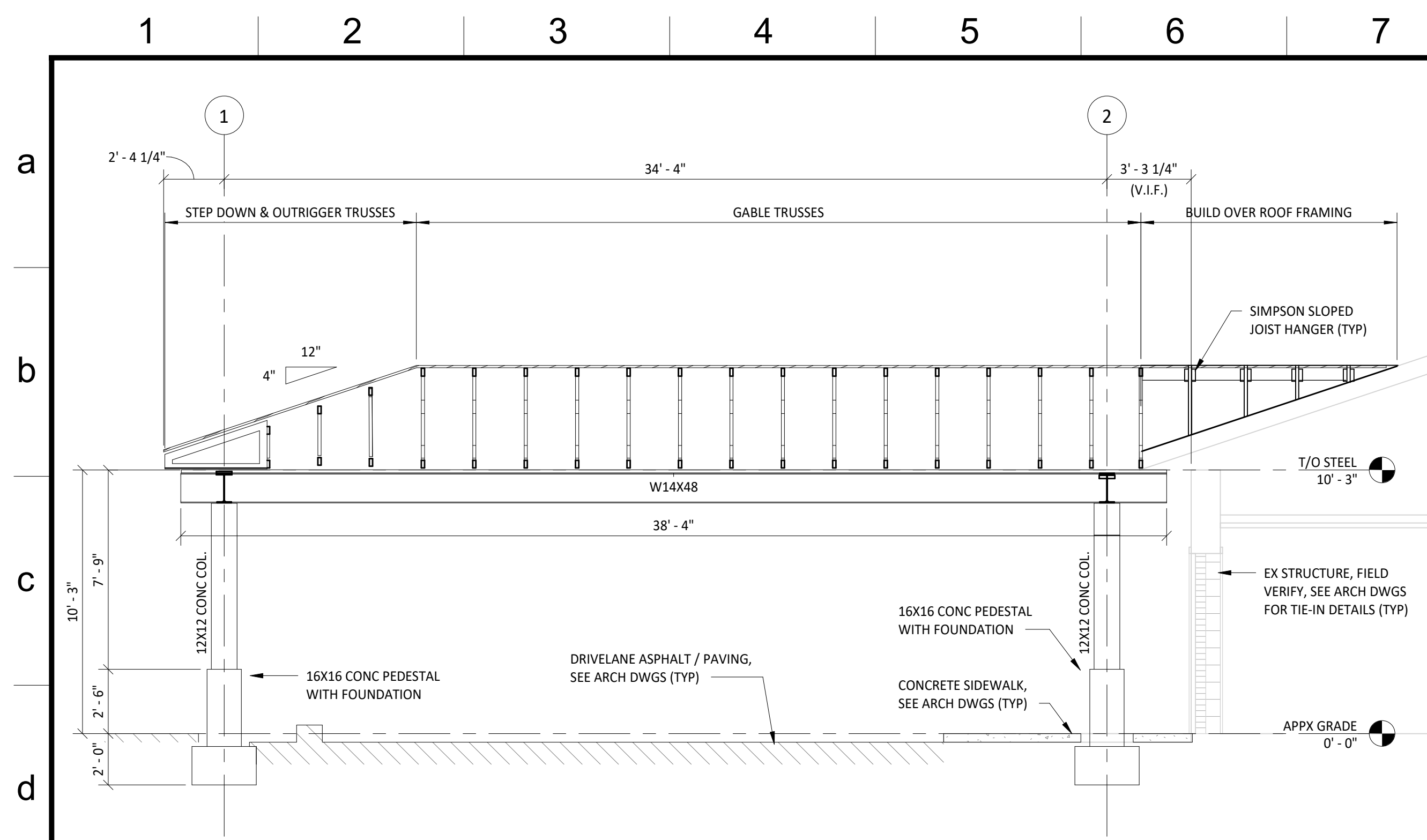
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STRUCTURAL PLANS

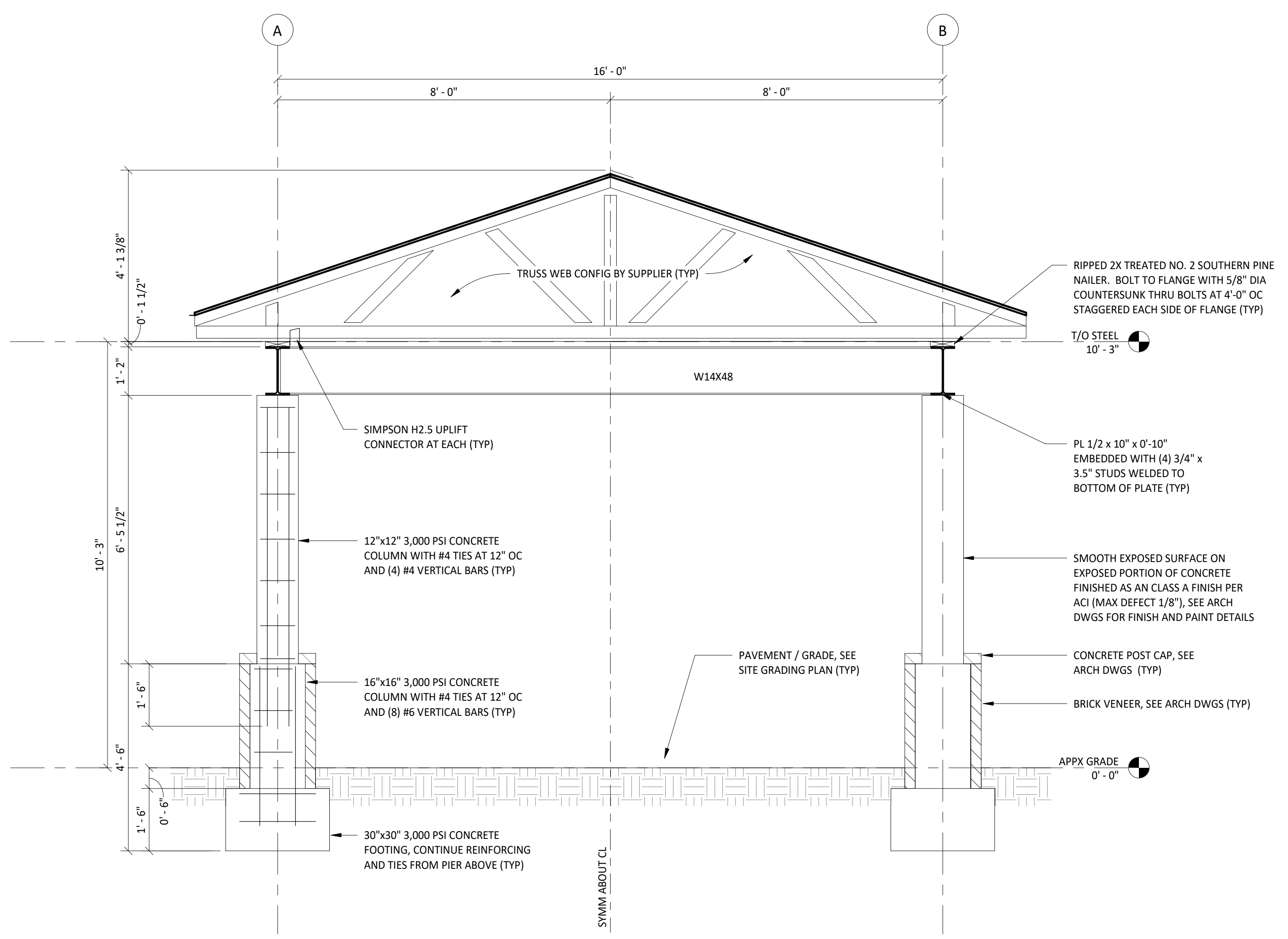
Issue	Issued by	Drawn by	Date
RFC	MWH	NWD	06/21/2024







1  
S-102  
**LONGITUDINAL SECTION**  
SCALE: 1/4" = 1'-0"



2  
S-102  
**TYPICAL CROSS SECTION**  
SCALE: 1/2" = 1'-0"

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**STRUCTURAL SECTIONS**

issue	issued by	drawn by	date
RFC	MWH	NWD	06/21/2024



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**GENERAL DEMOLITION NOTES**

- GENERAL DEMOLITION**
- A. UTILITIES: MAINTAIN SERVICES INDICATED TO REMAIN; PROTECT FROM DAMAGE DURING DEMOLITION.
  - B. PROTECTION: PROVIDE BARRICADES AND DEMARK AREAS OF DANGER IN ORDER TO PROVIDE SAFE PASSAGE OF PEOPLE AROUND AREA OF WORK.
  - C. DISPOSAL: REMOVE AND TRANSPORT DEBRIS OFF SITE AND DISPOSE OF IN ACCORDANCE WITH STATE AND FEDERAL REGULATIONS. TRANSPORT IN A MANNER THAT WILL PREVENT SPILLAGE ON ADJACENT SURFACES AND AREAS. PROTECT AREAS TO REMAIN FROM DAMAGE.
  - D. DO NOT REMOVE STRUCTURAL ELEMENTS WITHOUT APPROVAL OF ARCHITECT. PROVIDE TEMPORARY SUPPORT TO EXISTING CONSTRUCTION. SUCH SUPPORT SHALL BE DESIGNED BY A LICENSED STRUCTURAL ENGINEER.
  - E. PROVIDE PROTECTION FROM WEATHER AT OPENINGS IN THE EXTERIOR ENVELOPE. PROTECTION SHALL MAINTAIN A BARRIER TO AIR, MOISTURE, AND DIRT.
  - F. CUT HOLES AND SLOTS AS SMALL AS POSSIBLE, NEATLY TO SIZE, AND WITH MINIMUM OF DISTURBANCE.
  - G. REMOVE DIRT, DUST, AND LOOSE DEBRIS FROM BUILDING. BUILDING SHALL BE SWEEPED CLEAN IMMEDIATELY PRIOR TO COMPLETION OF WORK.
  - H. REMOVE EMPTY CONDUIT, LOOSE WIRE, PIPING OR MISCELLANEOUS WOOD OR STEEL COMPONENTS THAT ARE NO LONGER IN USE OR SERVE NO PURPOSE FROM CEILING, WALLS, AND FLOORS.
  - I. UPON COMPLETION OF DEMOLITION, VISUALLY INSPECT FOR RESIDUAL MOLD. IF MOLD IS ENCOUNTERED, NOTIFY OWNER AND HAVE MOLD MITIGATED.
  - J. UPON COMPLETION OF DEMOLITION AND DURING CONSTRUCTION, REGULARLY HEPA VACUUM SPACES.
  - K. DUST BARRIERS TO BE USED TO COUNTER SPREAD OF DUST THROUGH FACILITY. COORDINATE WITH ARCHITECT AND OWNER.

**SITE**  
A. SEE SITE PLAN FOR LIMITS OF SITE DEMO WORK.

**ROOF**  
A. SEE ROOF PLAN FOR LIMITS OF ROOF DEMO WORK.

**CEILINGS**  
A. CEILINGS SHALL BE REMOVED WHERE NOTED. SAVE TILES TO BE REUSED.  
B. SEE RCP FOR LIMITS OF WORK.

**WALLS**  
A. REMOVE DOORS, FRAMES, AND HARDWARE LOCATED IN WALLS INDICATED TO BE DEMOLISHED (TYP.) STORE DOORS, FRAMES, AND HARDWARE FOR REINSTALLATION.  
B. SEE DEMOLITION PLAN FOR LIMITS OF WORK.

**PLUMBING**  
A. REMOVE EXISTING FIXTURES, PIPING, SUPPORTS, ETC. THROUGHOUT INTERIOR, NOT INDICATED TO BE REUSED.  
B. SEE PLUMBING DRAWINGS FOR ADDITIONAL SCOPE AND LIMITS OF WORK.

**MECHANICAL**  
A. REMOVE EXISTING MECHANICAL EQUIPMENT, DUCTWORK, GRILLES, PIPING, ETC. THROUGHOUT INTERIOR, NOT INDICATED TO BE REUSED.  
B. SEE MECHANICAL DRAWINGS FOR ADDITIONAL SCOPE AND LIMITS OF WORK.

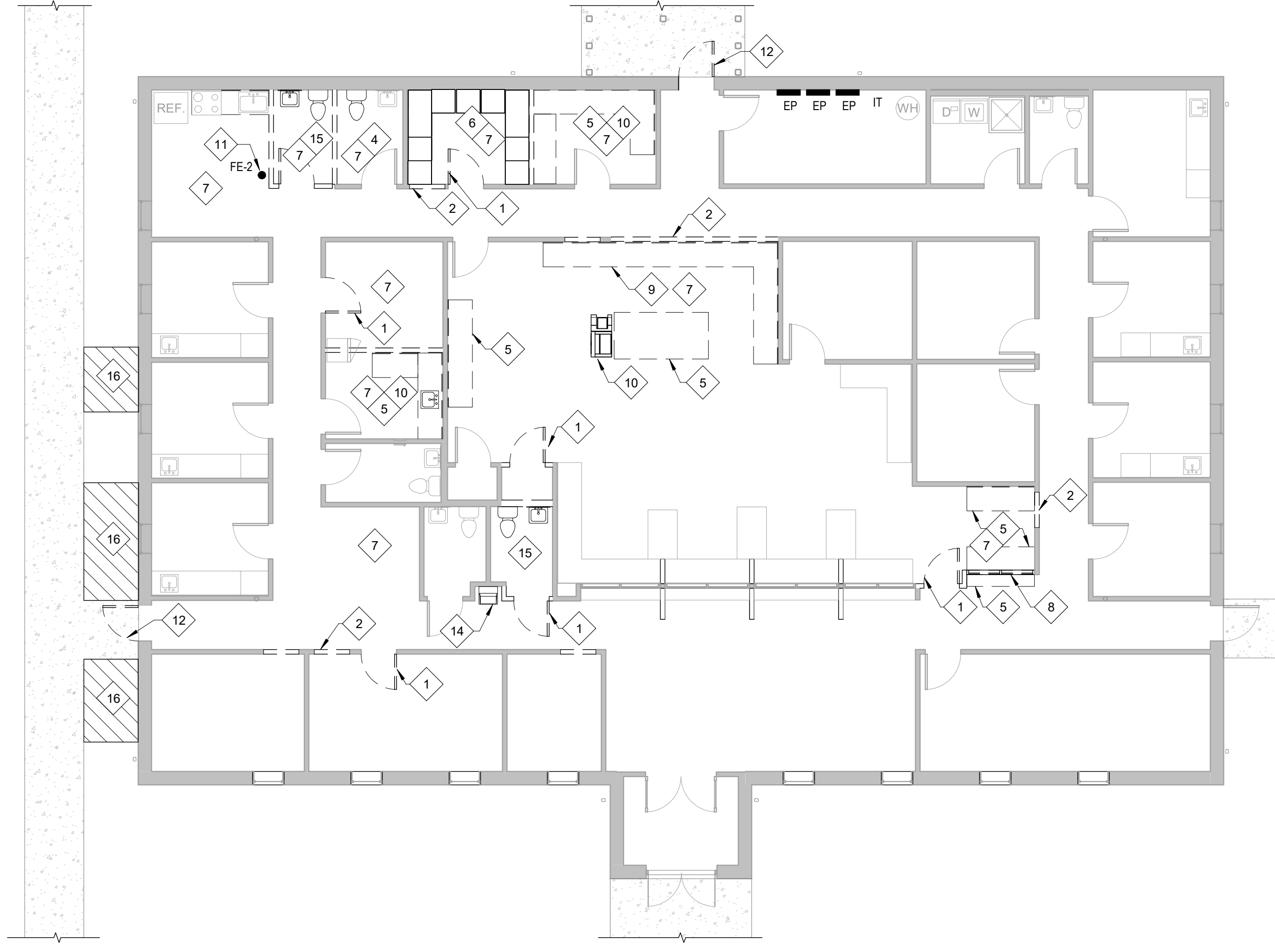
**ELECTRICAL**  
A. REMOVE EXISTING PANELS, CONDUIT, WIRING, DEVICES, LIGHTING, ETC. NOT INDICATED TO BE REUSED.  
B. SEE ELECTRICAL DRAWINGS FOR ADDITIONAL SCOPE AND LIMITS OF WORK.

**DEMOLITION LEGEND**

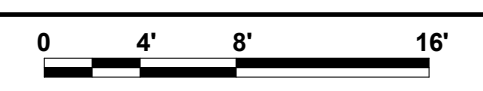
- # DEMOLITION KEYNOTE REFERENCE
- EXISTING WALL TO REMAIN
- - - WALL TO REMOVE
- OPENING TO BE CUT IN EXISTING WALL, COORDINATE W/ ARCHITECTURAL PLAN
- EXISTING WINDOW
- EXISTING DOOR
- REMOVE DOOR, HARDWARE, & FRAME
- REMOVE VEGETATION

**DEMOLITION KEYNOTES:** #

1. REMOVE EXISTING DOORS, FRAMES, AND HARDWARE. STORE FOR REINSTALLATION.
2. DEMO SELECTED PORTIONS OF WALLS FOR NEW DOOR FRAMING. SEE FLOOR PLANS AND DOOR SCHEDULES FOR DOOR SIZES AND LOCATIONS.
3. NOT USED.
4. REMOVE WATER CLOSET. STORE FOR REINSTALLATION. SEE PLUMBING DRAWINGS FOR ADDITIONAL SCOPE.
5. REMOVE AND DISPOSE OF EXISTING CASEWORK.
6. REMOVE EXISTING SHELVING. STORE FOR REINSTALLATION.
7. REMOVE EXISTING 2X4 ACT CEILING TILE AND GRID. STORE INTACT TILES TO PATCH EXISTING CEILINGS.
8. REMOVE WALL, INTERIOR STOREFRONT AND FRAME. DISPOSE OF OFF SITE.
9. REMOVE EXISTING CASEWORK, DISPOSE OF COUNTERTOP. STORE FOR REINSTALLATION. SEE ENLARGED FLOOR PLANS FOR REVISED LOCATION.
10. OWNER TO MOVE EXIST. EQUIPMENT. TO BE REMOVED AND SAVED FOR REUSE. OWNER IS RESPONSIBLE FOR MOVING ALL EQUIPMENT IN WORK AREAS.
11. FIRE EXTINGUISHER TO BE REMOVED AND SAVED FOR REUSE.
12. REMOVE EXIST. DOOR, LEAVE FRAME. SAVE HARDWARE FOR REUSE.
13. NOT USED.
14. REMOVE EXISTING DRINKING FOUNTAIN.
15. REMOVE AND DISPOSE OF PLUMBING FIXTURES.
16. REMOVE VEGETATION AT CANOPY AND DSOU LOCATIONS. REPLACE WITH LANDSCAPE STONE.



L6 DEMOLITION PLAN  
AD101 1/8" = 1'-0"



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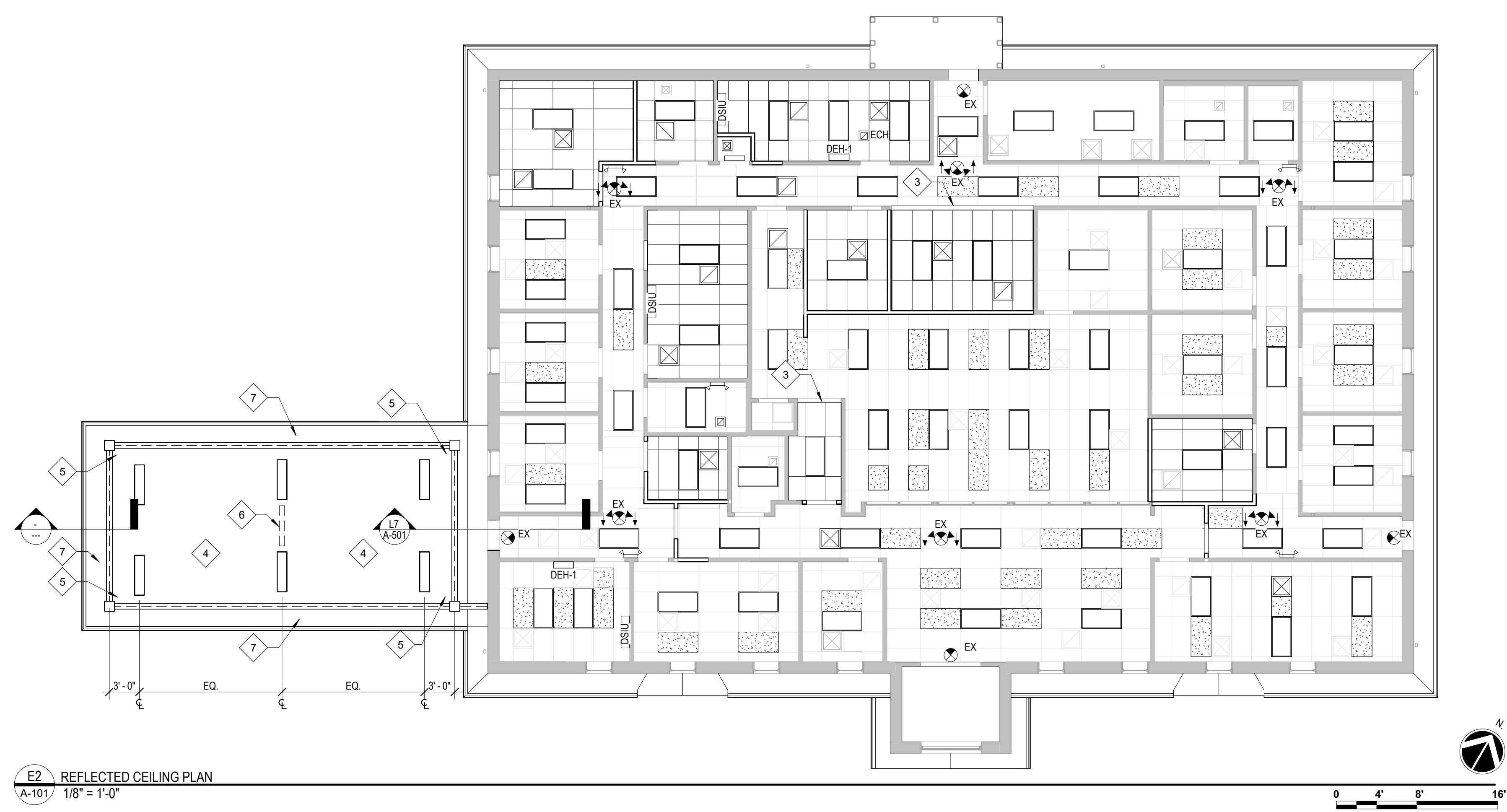
**DEMOLITION PLAN**

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RFC	AS	SHJD	06/21/2024



AD101

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**RCP LEGEND**

- EXISTING 2'-0" x 4'-0" ACOUSTICAL CEILING TILE
- NEW 2'-0" x 4'-0" ACOUSTICAL CEILING TILE
- EXPOSED STRUCTURE
- REPLACED 2'-0" x 4'-0" ACOUSTICAL CEILING TILE
- NEW 2X4 FLAT PANEL LED
- EX EXISTING EXIT SIGN
- EX EXISTING EXIT SIGN & LIGHT COMBO
- EX EXISTING EXIT SIGN & LIGHT, DOUBLE FACED
- EXISTING EMERGENCY LIGHT
- NEW R/A GRILL
- EXISTING R/A GRILL
- NEW SUPPLY DIFFUSER
- EXISTING SUPPLY DIFFUSER
- DUCTLESS AIR UNIT
- DUCTLESS AIR UNIT
- ELECTRIC CEILING HEATER
- WALL MOUNTED LED LIGHT, MOUNTED ABOVE DOOR

**GENERAL RCP NOTES:**

- A. SUSPENDED ACOUSTICAL CEILING SYSTEMS SHALL BE INSTALLED IN ACCORDANCE WITH THE PROVISIONS OF ASTM C635 AND ASTM C636.
- B. SUSPENSION SYSTEMS FOR LAY-IN PANEL CEILINGS SHALL COMPLY WITH ASCE 7 SECTION 13.5.6 SEISMIC SITE CLASS 'D' FOR HIGH SEISMIC AREAS, UNLESS NOTED OTHERWISE.
- C. CENTER CEILING GRID IN ROOMS UNLESS NOTED OTHERWISE.
- D. SUPPLY & RETURN AIR GRILLS / SLOTS IN SUSPENDED CEILING AREAS SHALL BE LOCATED AS INDICATED ON REFLECTED CEILING PLAN. LOCATIONS AS SHOWN ON MECHANICAL PLAN ARE SCHEMATIC.
- E. CEILING HEIGHT TO BE AT 8'-0" AFF, UNLESS NOTED OTHERWISE.
- F. SEE FINISH SCHEDULE AND SPECIFICATIONS FOR TYPE OF GRID AND TILE.
- G. SEE A-801 SECTION 01 73 19 "CUTTING AND PATCHING" FOR INSTRUCTIONS ON MATCHING AND CLEANING UP EDGES BETWEEN NEW AND EXISTING CEILING.
- H. EXISTING ACOUSTICAL CEILING GRID & TILE TO REMAIN, REPLACE DAMAGED TILES, CRACKED, CHIPPED, STAINED, ETC., WITH NEW. USE EXISTING TILES REMOVED FROM OTHER LOCATIONS OR REPLACE WITH NEW.

**RCP KEYNOTES:**

1. NOT USED.
2. NOT USED.
3. NEW HEADER, HEIGHT 7' - 0".
4. VINYL SOFFIT PANELS, SOLID.
5. NEW FANS.
6. NEW HEATER.
7. VINYL SOFFIT PANELS, VENTED. PATTERN TO MATCH EXISTING.

**FLOOR PLAN LEGEND**

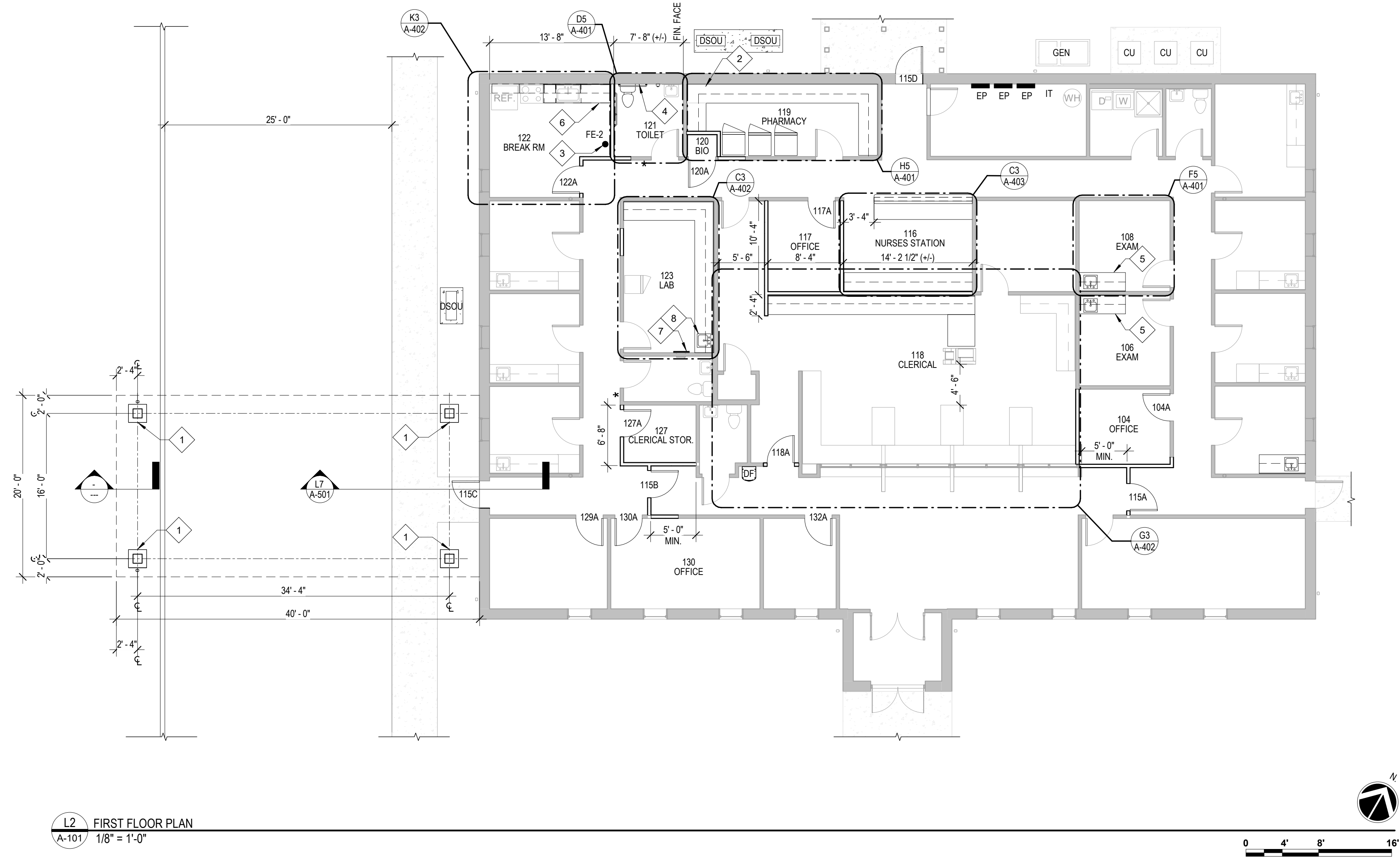
- KEYNOTE REFERENCE
- EXISTING WALL TO REMAIN
- NEW WALL
- KNEE WALL WITH COUNTERTOP. SEE DETAIL J12/A-401.
- EXISTING WINDOW
- EXISTING DOOR
- NEW DOOR
- INDICATES WALL TYPE "X" SEE DWG G-001 FOR DETAILS. WALLS TO BE FIRE-RATED WHERE INDICATED.
- DOOR DESIGNATION
- DRINKING FOUNTAIN
- ELECTRICAL PANEL
- EXPANSION JOINT
- FIRE EXTINGUISHER, BRACKET MOUNT
- REFRIGERATOR
- SIGNAGE. SEE GENERAL NOTE 'G'

**GENERAL FLOOR PLAN NOTES:**

- A. FIELD VERIFY DIMENSIONS. REPORT DISCREPANCIES TO ARCHITECT.
- B. INTERIOR AND EXTERIOR WALL AND PARTITION DIMENSIONS ARE FROM FACE OF STUD TO FACE OF STUD, UNLESS NOTED OTHERWISE. MASONRY DIMENSIONS ARE FROM OUTSIDE EDGE TO OUTSIDE EDGE, UNLESS NOTED OTHERWISE.
- C. INTERIOR PARTITIONS, U.N.O. SHALL BE WALL TYPE 'A'. EXTEND 6" ABOVE CEILING GRID. SEE G-001 FOR WALL TYPE DEFINITION.
- D. PROVIDE 3" SAFB SOUND INSULATION IN PARTITIONS SURROUNDING TOILETS.
- E. PROVIDE SOLID WOOD BLOCKING OR PLYWOOD FOR INSTALLATION OF TOILET ACCESSORIES, SHELVING, CASEWORK, AND OTHER SPECIALTY OR WALL MOUNTED ITEMS.
- F. KNEE WALLS TO BE BRACED WITH CLARK DEITRICH PONY WALL HEAVY (12GA) AT ENDS OF WALLS AND AT 4' - 0" O.C. FROM CORNERS. HEIGHT TO MATCH WALL.
- G. NEW SIGNAGE AT TOILET 121 IS REQUIRED. ALTERNATE 4 TO BE NEW INTERIOR SIGNAGE PACKAGE FOR ALL ROOMS.

**FLOOR PLAN KEYNOTES:**

1. INSTALL PROTECTED OUTDOOR OUTLET ON COLUMN BASE.
2. VACCINE COOLERS (N.I.C.), 3 TOTAL. PROVIDE OUTLETS UNDER COUNTER.
3. EXIST. FIRE EXTINGUISHER, TO BE REUSED.
4. PATCH GYP BRD. OVER CMU.
5. BID ALTERNATE 1 - NEW CASEWORK AND PLUMBING.
6. BID ALTERNATE 2 - CABINETS EXTENSION AND NEW COUNTERTOP.
7. NEW EYE WASH STATION.
8. NEW SINK.



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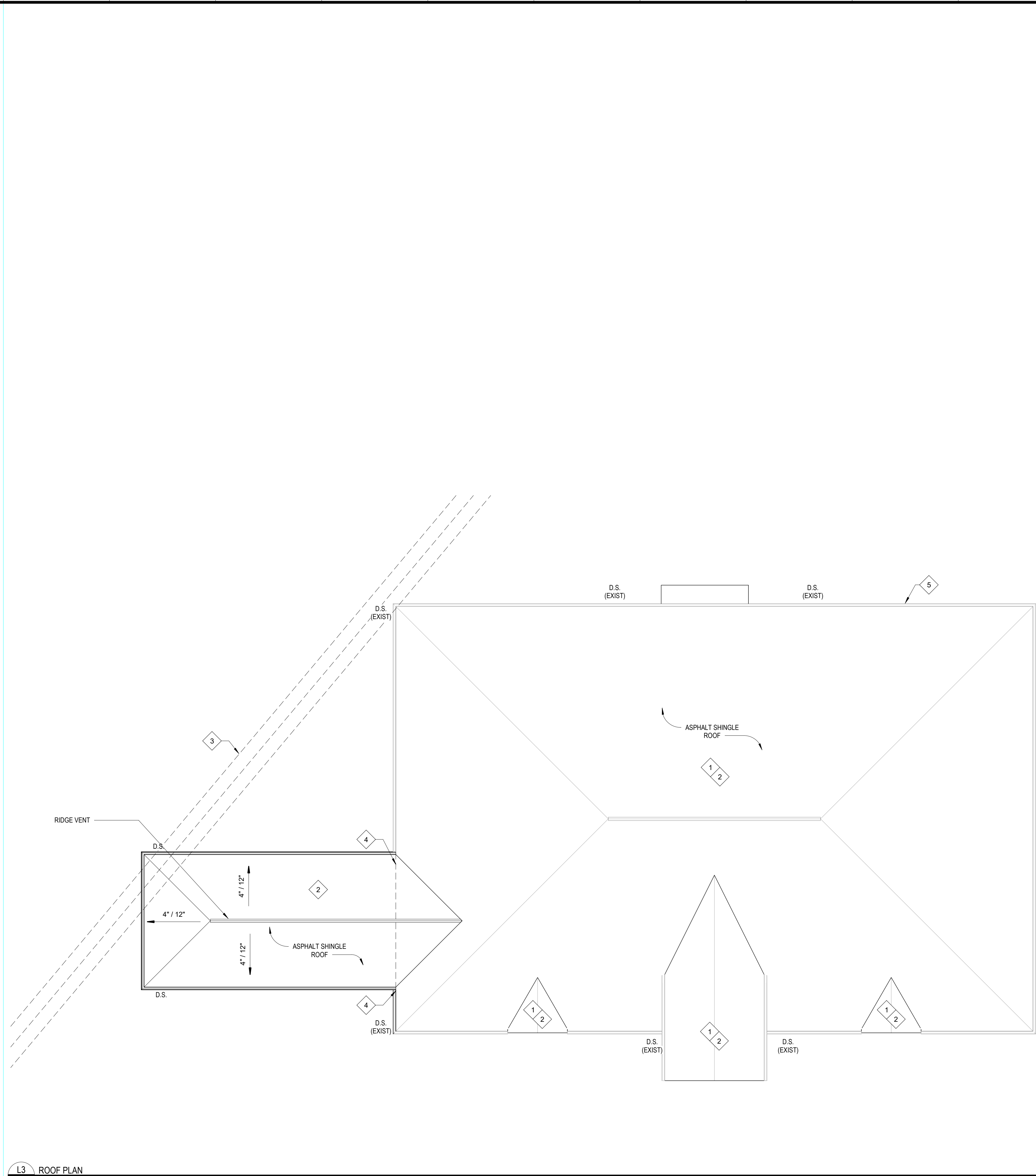
**FLOOR PLAN AND REFLECTED CEILING PLAN**

Issue	Issued by	Drawn by	Date
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**ROOF PLAN LEGEND**

→ INDICATES DIRECTION OF ROOF DRAINAGE

**ROOF PLAN NOTES:**

- A. DIMENSIONS ARE SHOWN FOR REFERENCE ONLY AND ARE NOT MEANT TO BE ACCURATE. FIELD VERIFY DIMENSIONS AND QUANTITIES.
- B. IT IS NOT THE INTENT OF THE DRAWINGS TO DEPICT ALL ROOF PENETRATIONS. CONTRACTOR IS RESPONSIBLE FOR VISUALLY INSPECTING ROOF TO VERIFY TYPE, QUANTITY, SIZE, AND OTHER CHARACTERISTICS OF PENETRATIONS. PROVIDE MANUFACTURER'S STANDARD DETAILS TO FLASH AND SEAL PENETRATIONS, UNLESS NOTED OTHERWISE.
- C. MECHANICAL AND ELECTRICAL WORK SHALL BE PERFORMED BY SUBCONTRACTORS SPECIFICALLY TRAINED IN THIS AREA. COORDINATE DEMOLITION AND NEW INSTALLATION WORK WITH APPROPRIATE SUBCONTRACTOR.
- D. INSPECT ROOF SHEATHING. NOTIFY ARCHITECT OF ANY WATER DAMAGED AREAS. WET AND WATER DAMAGED SHEATHING SHALL BE REMOVED AND REPLACED.
- E. REMOVE ROOFING ONLY FROM AREAS THAT WILL BE RE-ROOFED THE SAME DAY. SEAL ROOFING AT END OF EACH DAY TO PROVIDE A WATERTIGHT MEMBRANE.
- F. PAINT EXHAUST FANS, VENTS, AND OTHER ROOF PENETRATIONS. COLOR AS SELECTED BY ARCHITECT.

**ROOF PLAN KEYNOTES:**



- 1. REMOVE EXISTING ROOFING SHINGLES AND UNDERLAYMENT. INSPECT ROOF SHEATHING. NOTIFY ARCHITECT IF ANY SHEATHING APPEARS DAMAGED OR ROTTEN.
- 2. INSTALL NEW UNDERLAYMENT AND ASPHALT SHINGLE ROOF.
- 3. EXISTING OVERHEAD ELECTRICAL SERVICE. SERVICE TO REMAIN ACTIVE. CONTRACTOR SHALL TAKE APPROPRIATE SAFETY PRECAUTIONS AS REQ'D BY OSHA AND OTHER STATE, LOCAL, AND FEDERAL AGENCIES.
- 4. MODIFY EXISTING GUTTER AT NEW CANOPY.
- 5. EXISTING GUTTER AND DOWNSPOUT TO REMAIN EXCEPT AS NEEDED TO BE MODIFIED FOR NEW CANOPY.

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**ROOF PLAN**

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L3 ROOF PLAN  
A-102 1/8" = 1'-0"

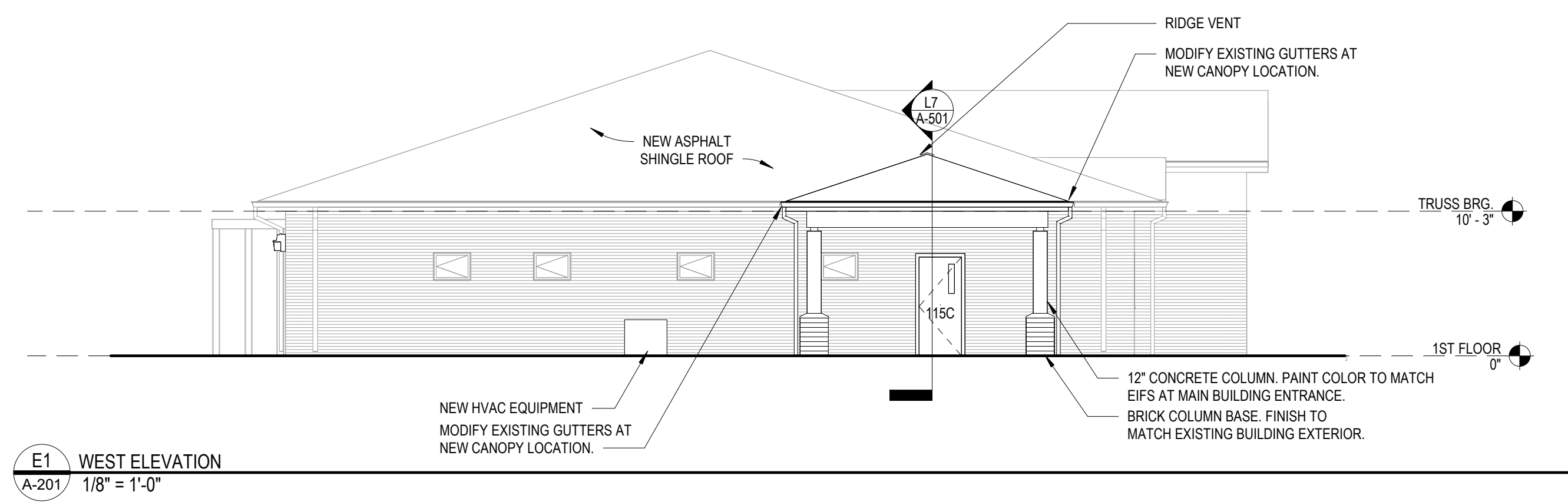
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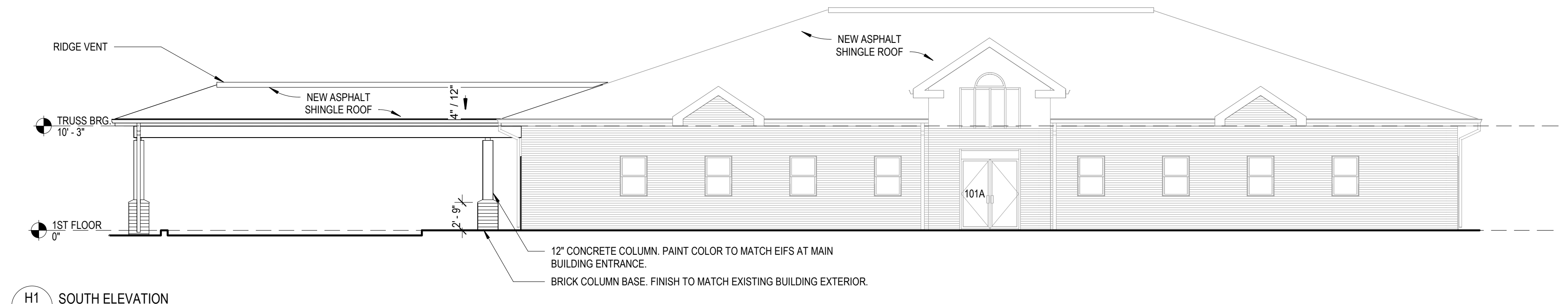
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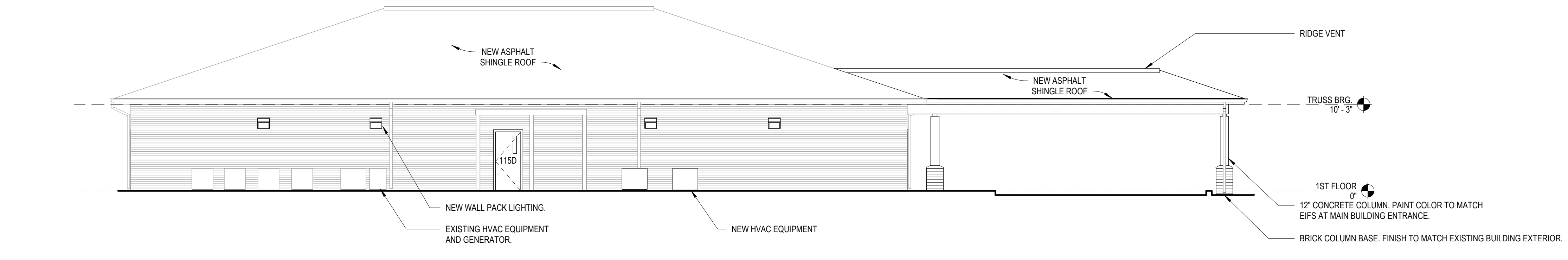
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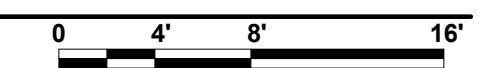
E1 WEST ELEVATION  
A-201 1/8" = 1'-0"



H1 SOUTH ELEVATION  
A-201 1/8" = 1'-0"



L1 NORTH ELEVATION  
A-201 1/8" = 1'-0"



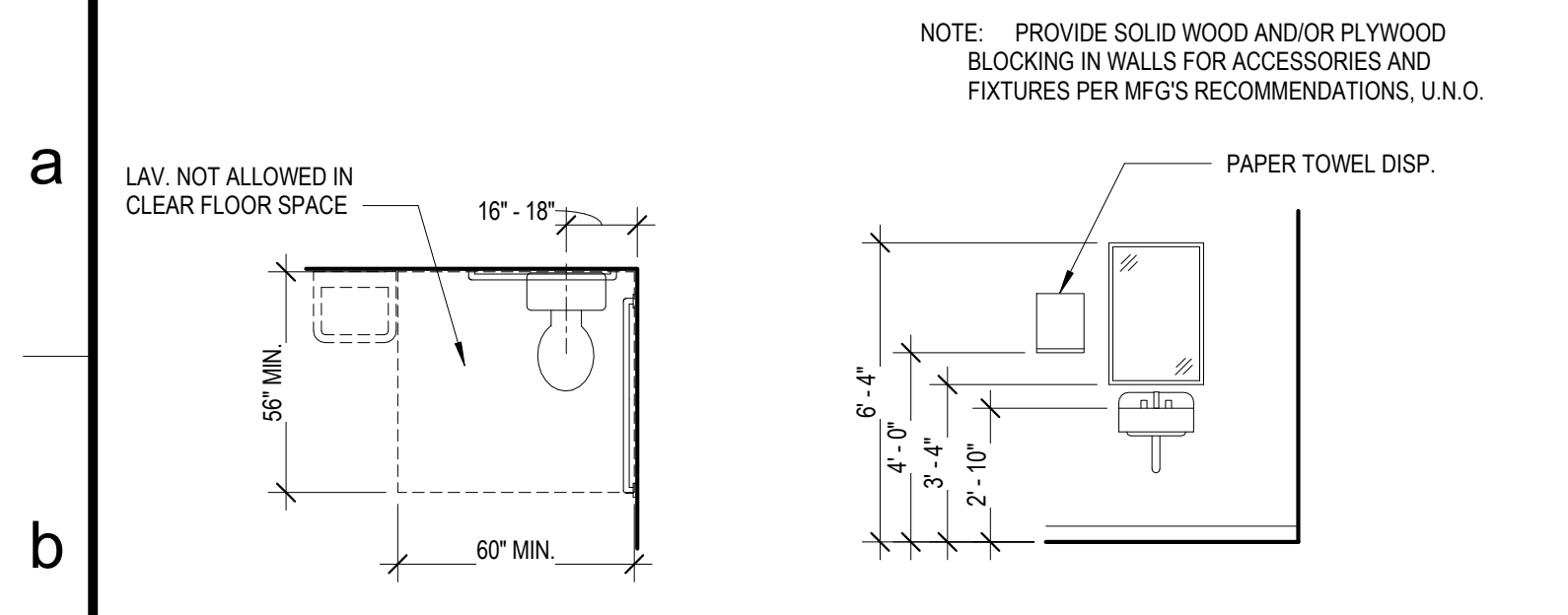
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EXTERIOR ELEVATIONS

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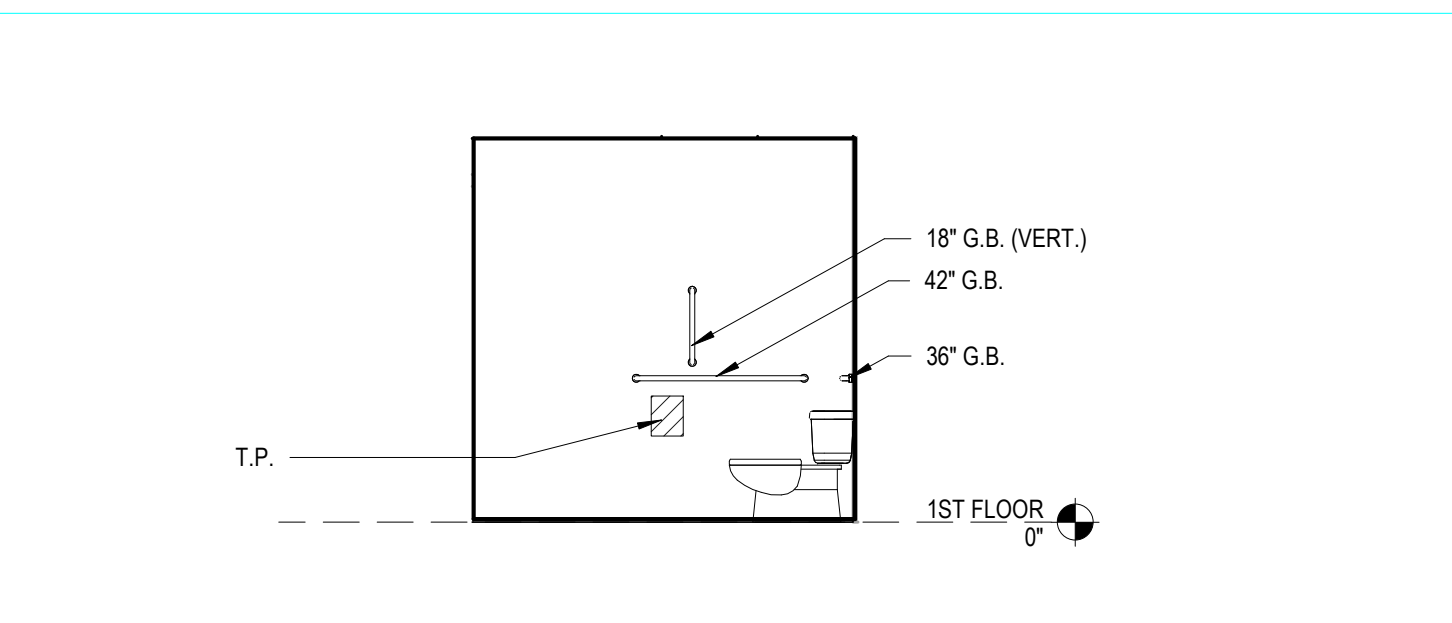
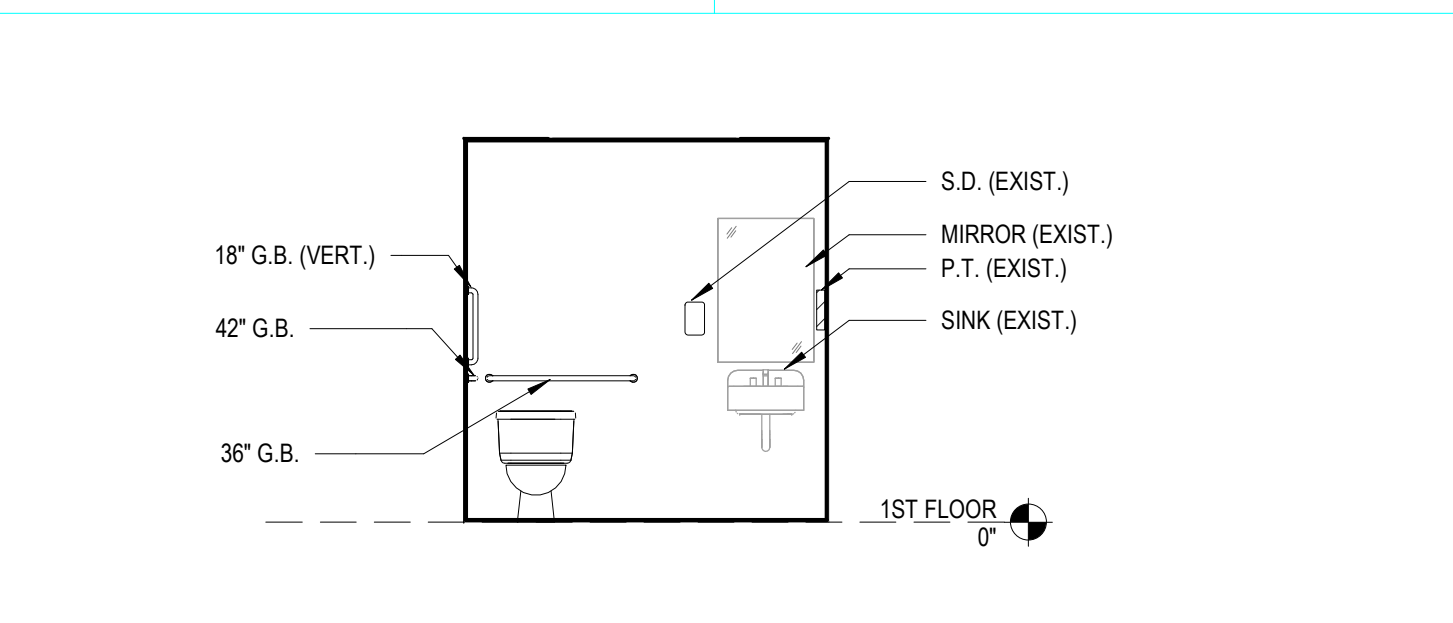
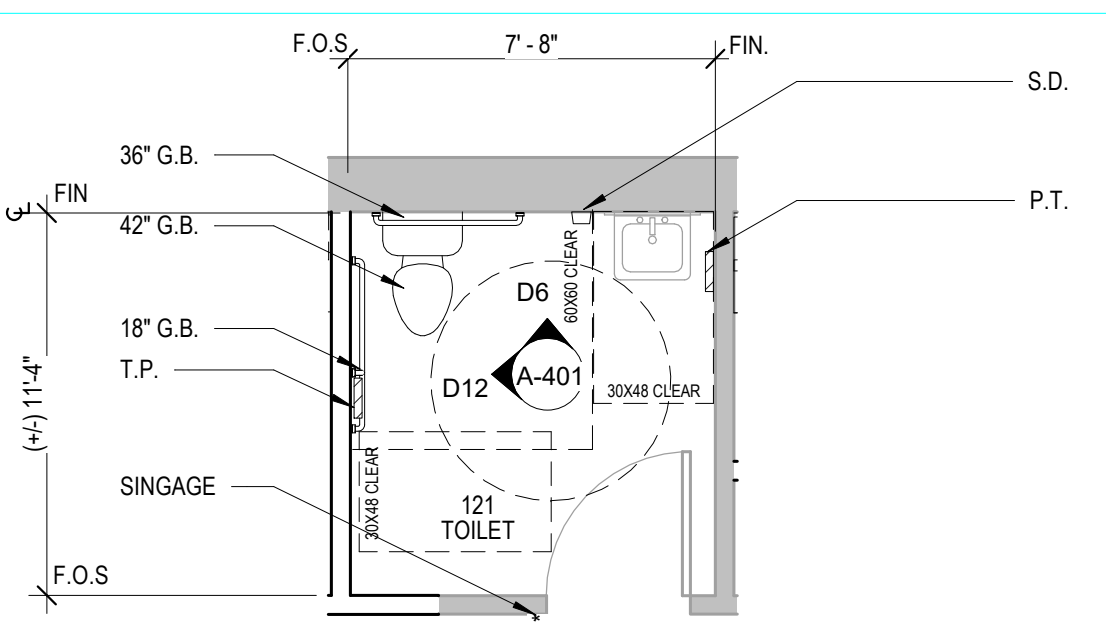
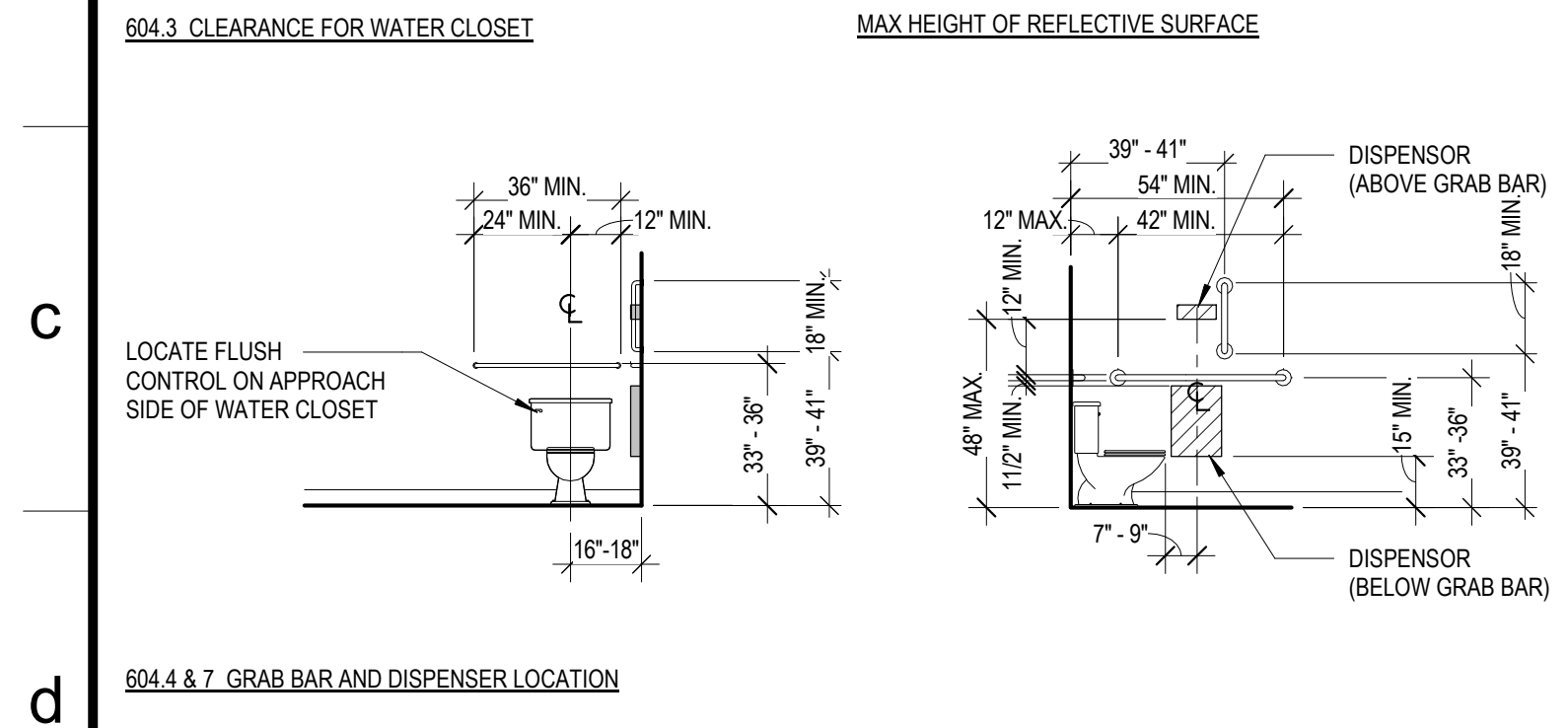


A-201



### TOILET ACCESSORIES SCHEDULE

MARK	ITEM	MFG	MODEL	FINISH	SIZE	SUPPLIER	INSTALLER
G.B.	GRAB BAR	BOBRICK	B-5806	S.S.	1 1/4" O.D. X 18"	GC	GC
	GRAB BAR	BOBRICK	B-5806	S.S.	1 1/4" O.D. X 36"	GC	GC
	GRAB BAR	BOBRICK	B-5806	S.S.	1 1/4" O.D. X 42"	GC	GC
T.P.	TOILET PAPER HOLDER	BOBRICK	B-540			OWNER	GC
P.T.	PAPER TOWEL DISPENSER					OWNER	GC
S.D.	SOAP DISPENSER					OWNER	GC
MIR	MIRROR W/ CHANNEL FRAME	BOBRICK	B-165	S.S.	24" X 36"	GC	GC

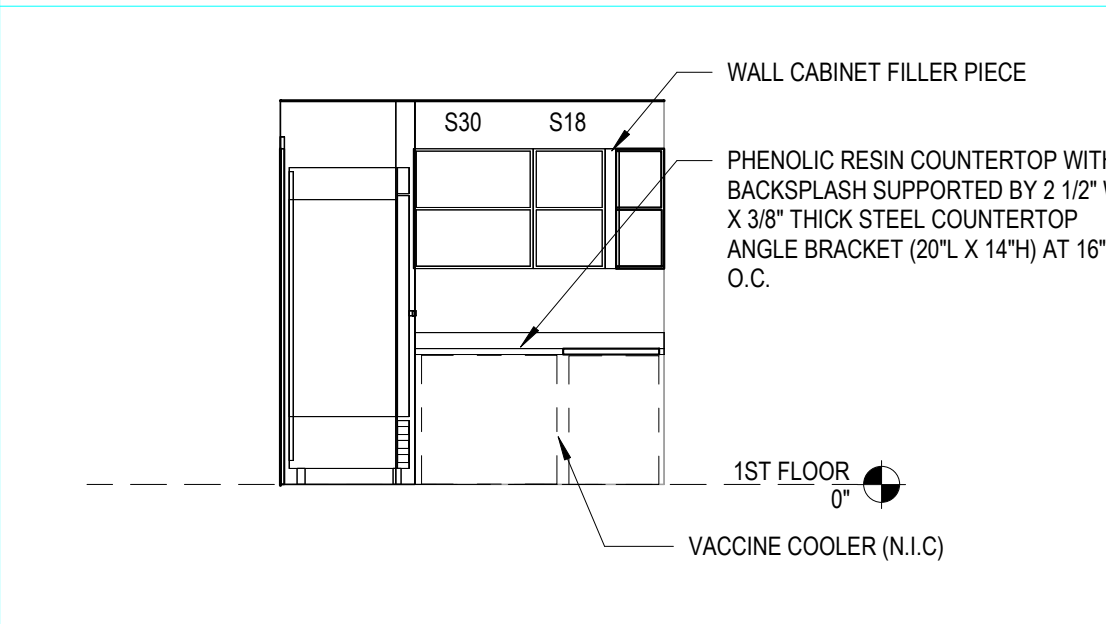
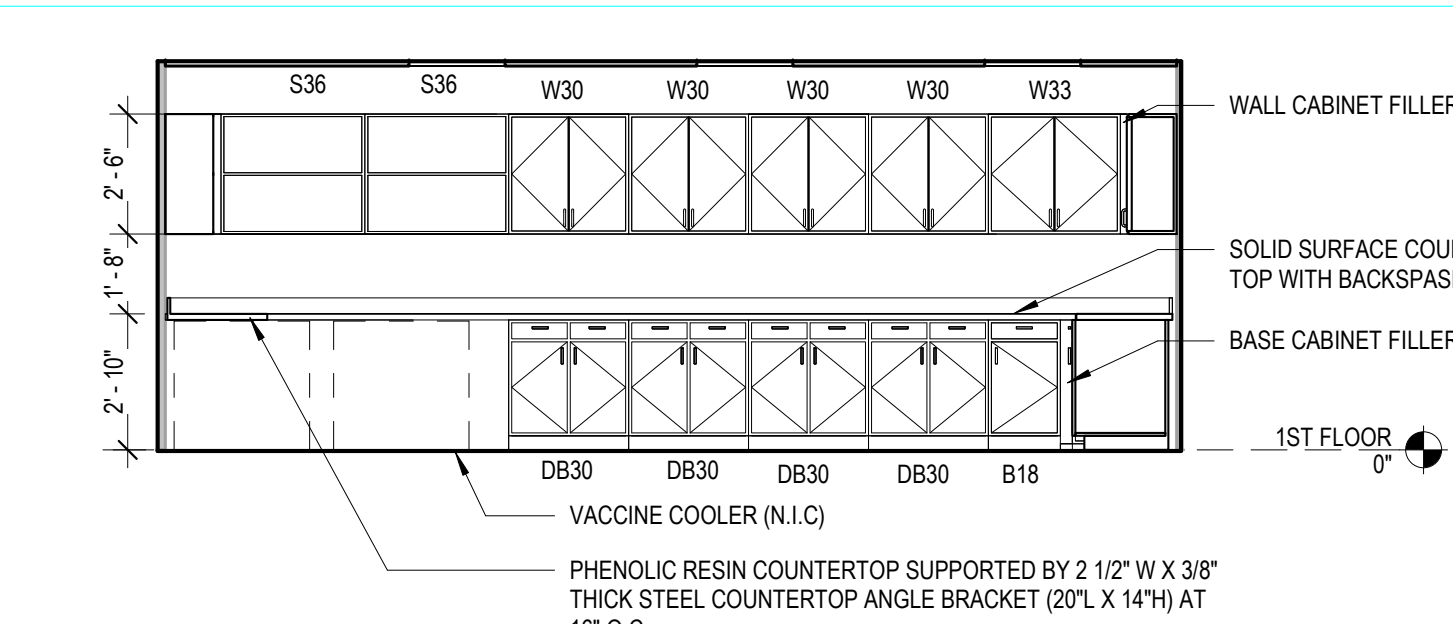
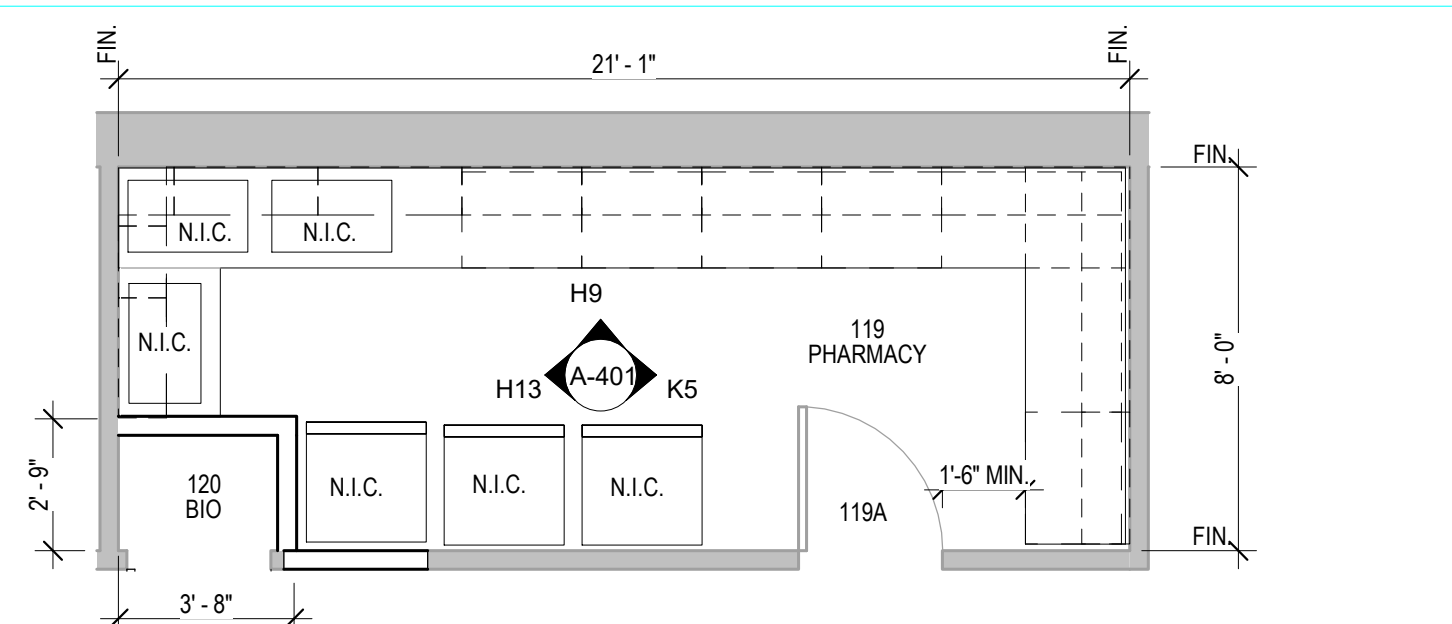
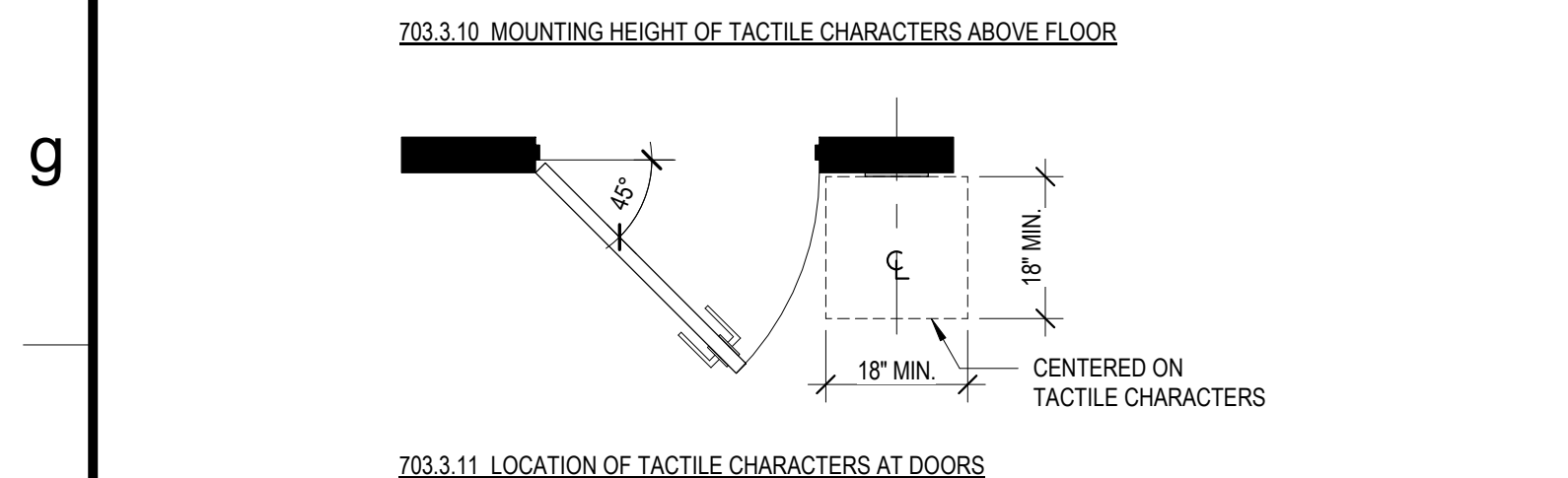
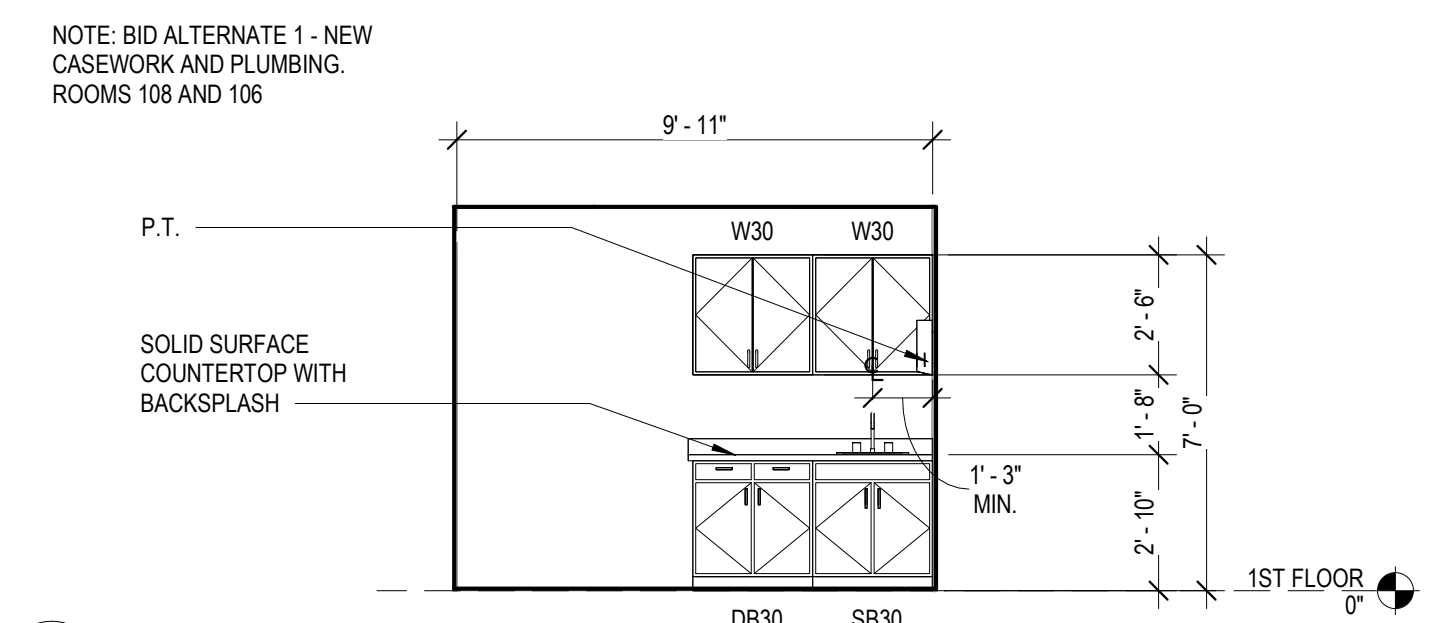
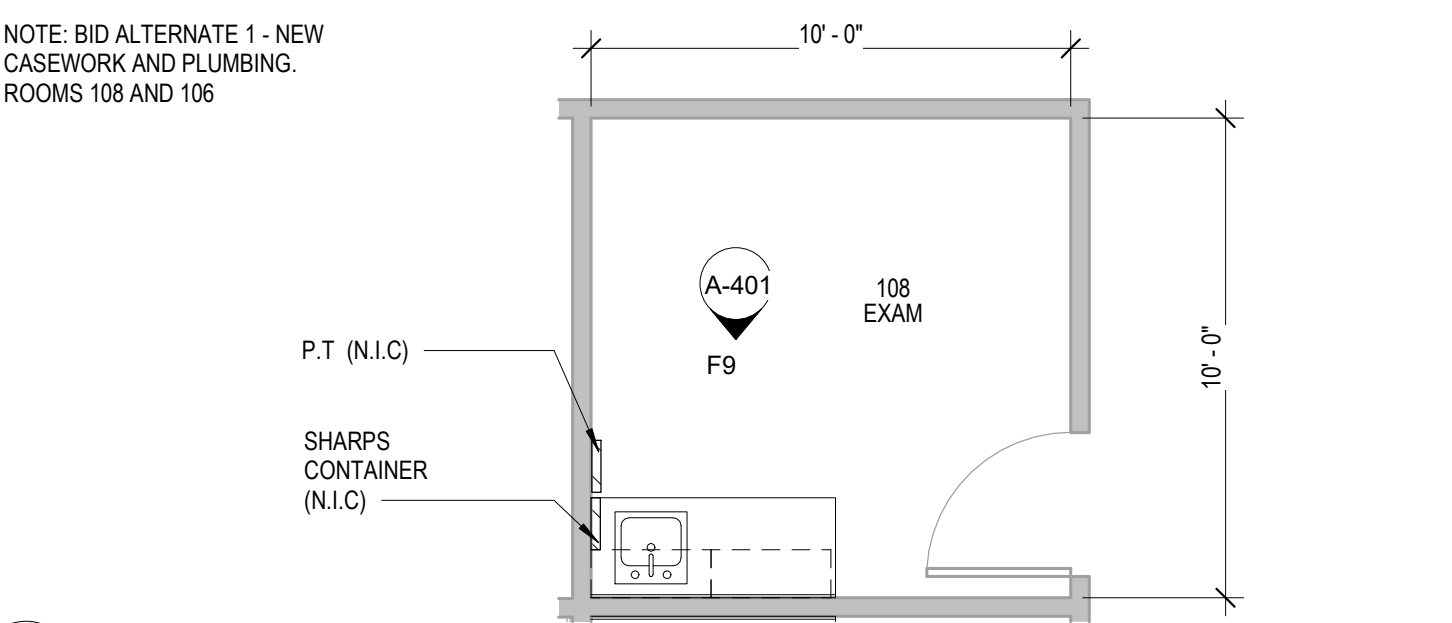
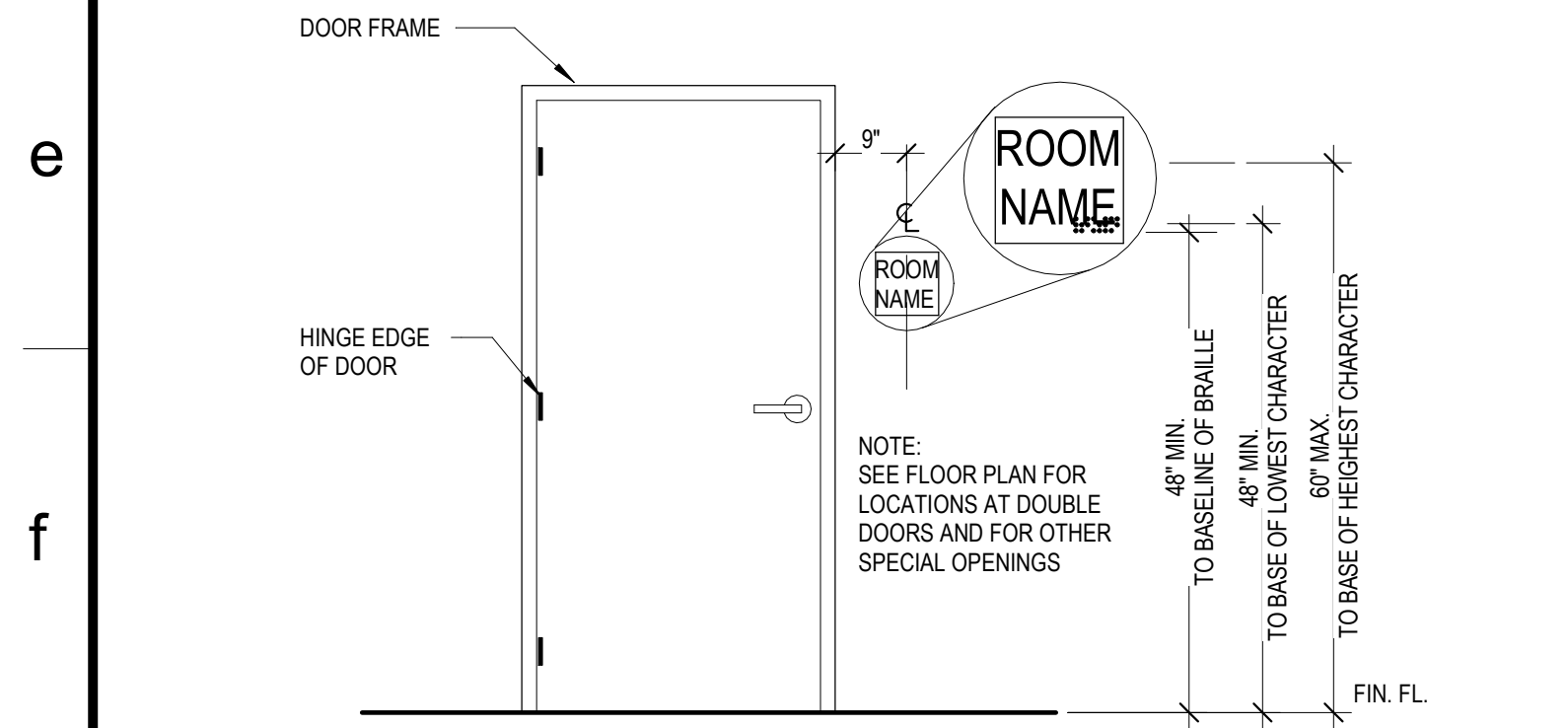


**D1** TOILET ELEV. A-401 1/4" = 1'-0"

**D5** ENLARGED FLOOR PLAN - BATHROOM 121 A-401 1/4" = 1'-0"

**D6** BATHROOM 121 ELEVATION FRONT A-401 1/4" = 1'-0"

**D12** BATHROOM 121 ELEVATION SIDE A-401 1/4" = 1'-0"

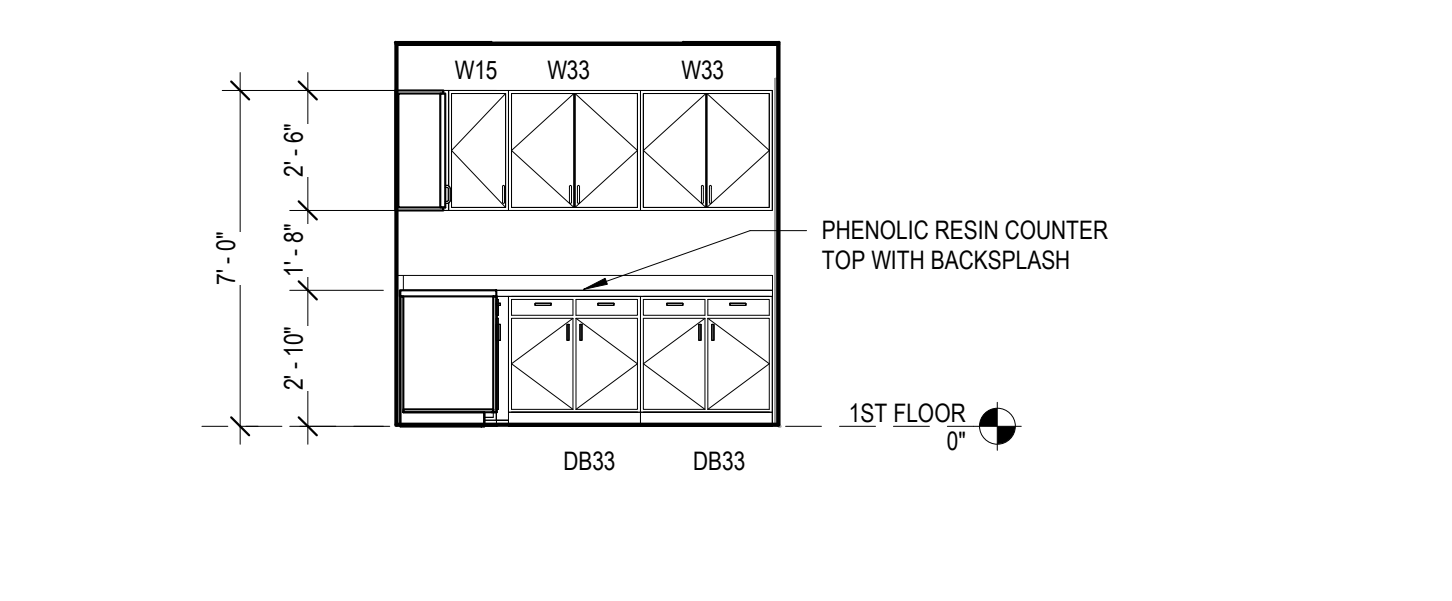
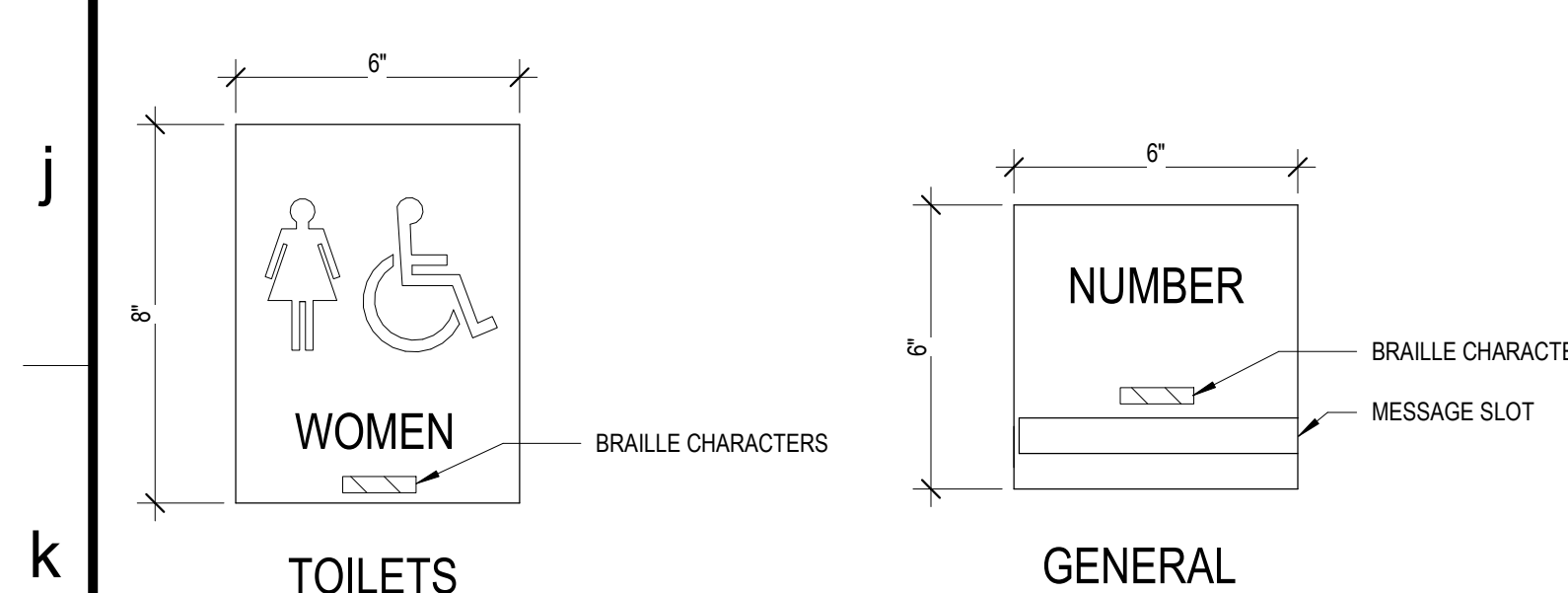


**H1** SIGNAGE DETAIL A-401 1/2" = 1'-0"

**H5** ENLARGED FLOOR PLAN PHARMACY A-401 1/4" = 1'-0"

**H9** ELEVATION PHARMACY BACK A-401 1/4" = 1'-0"

**H13** PHARMACY ELEVATION WEST A-401 1/4" = 1'-0"



NOTE:  
SIGN CHARACTERS SHALL MEET THE VISUAL CHARACTER REQUIREMENTS IN ACCORDANCE WITH ICC A117.1, SECTION 703.2  
SIGNAGE TO MEET MOUNTING HEIGHT AND LOCATION REQUIREMENTS IN ACCORDANCE WITH ICC A117.1, SECTION 703.3; SEE H1/A-401.

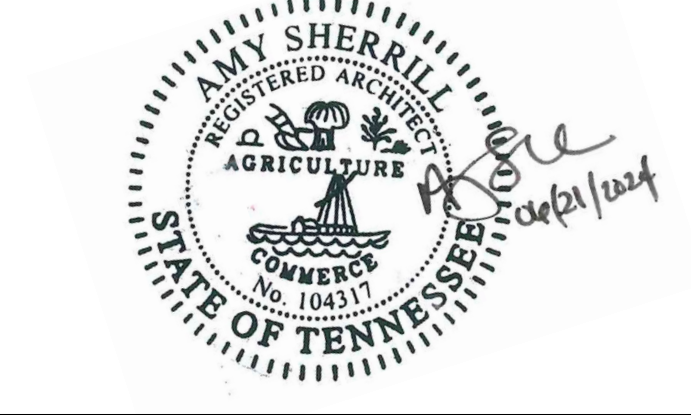
**K5** PHARMACY ELEVATION SIDE A-401 1/4" = 1'-0"

**L1** SIGNAGE - ALTERNATE NO. 4 A-401 3" = 1'-0"

UNION COUNTY HEALTH DEPT. RENOVATIONS 4355 MAYNARDVILLE HWY, MAYNARDVILLE, TN 37807

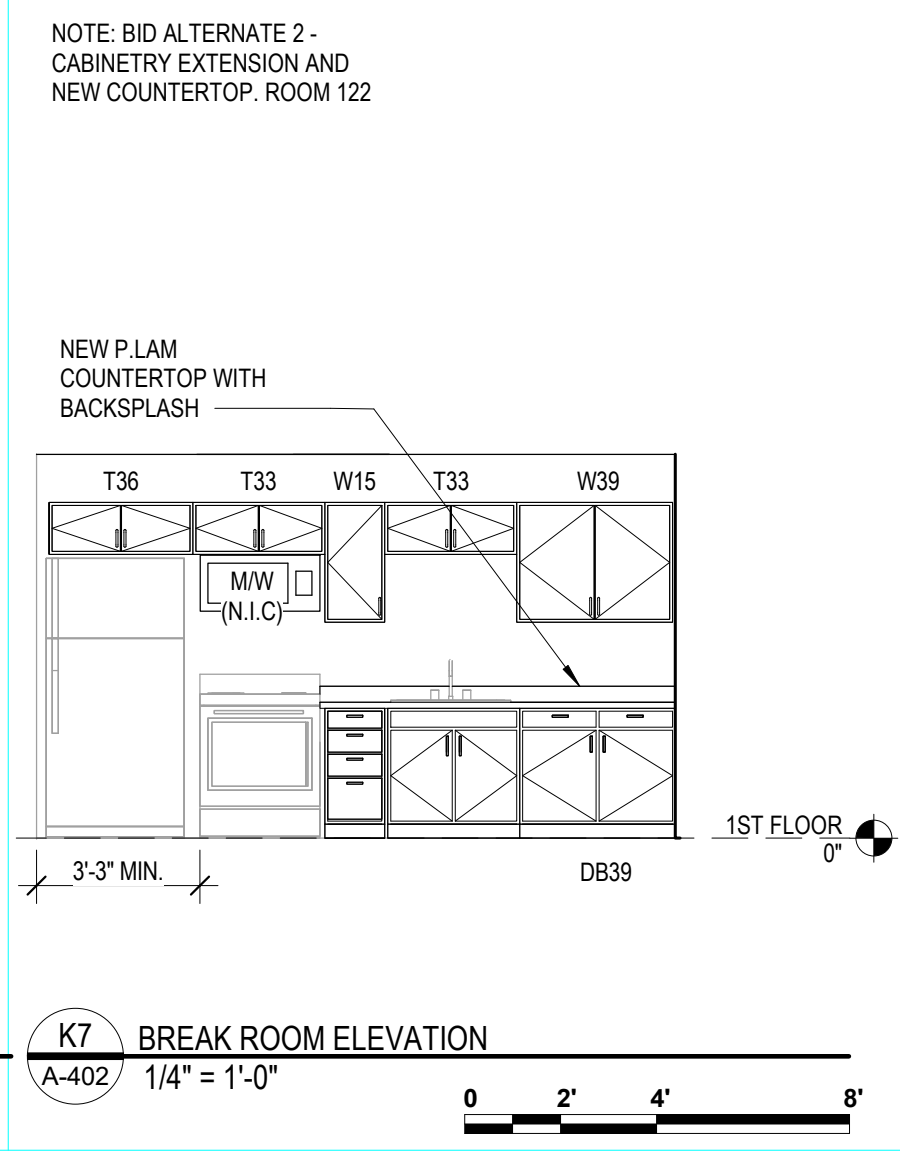
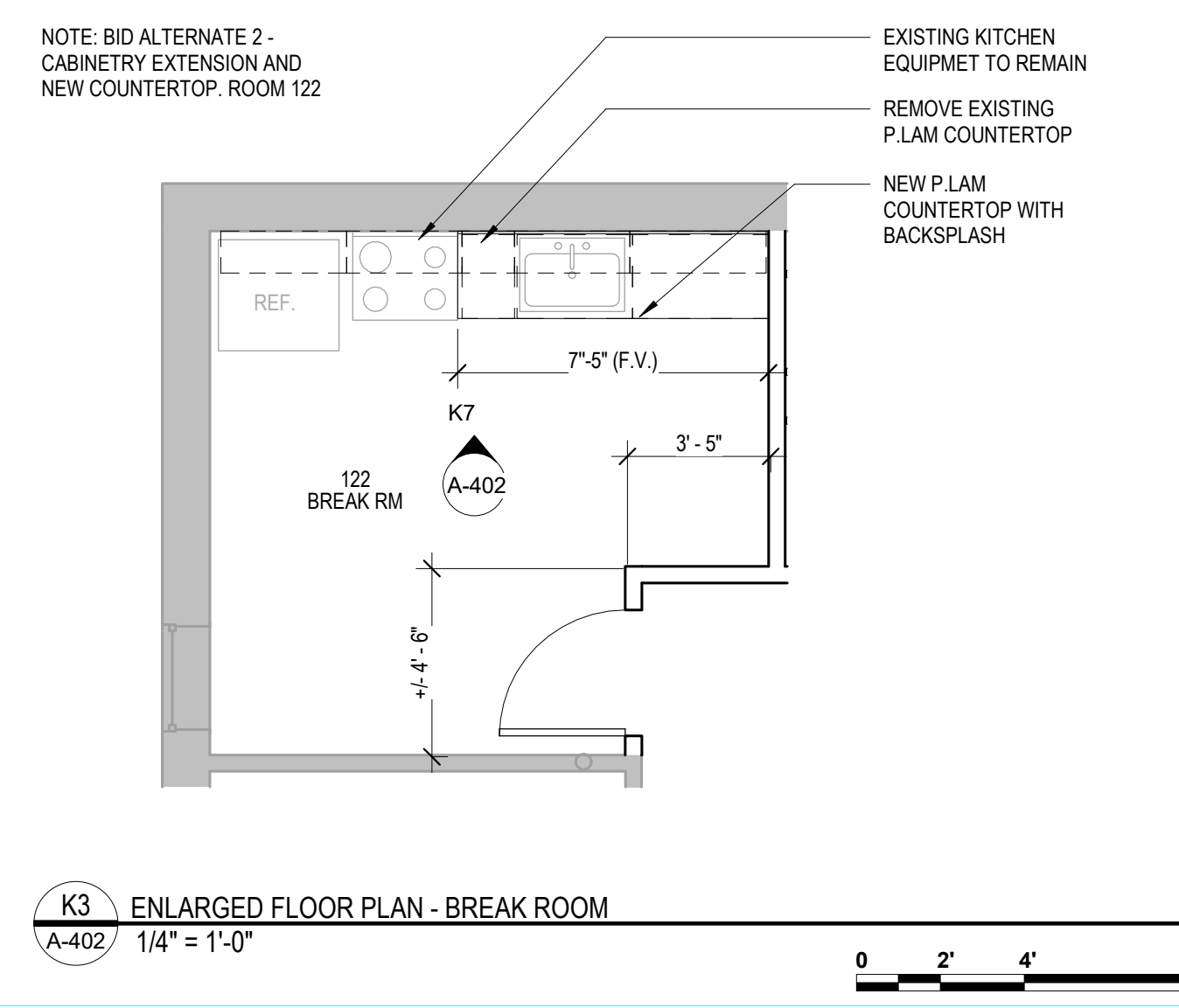
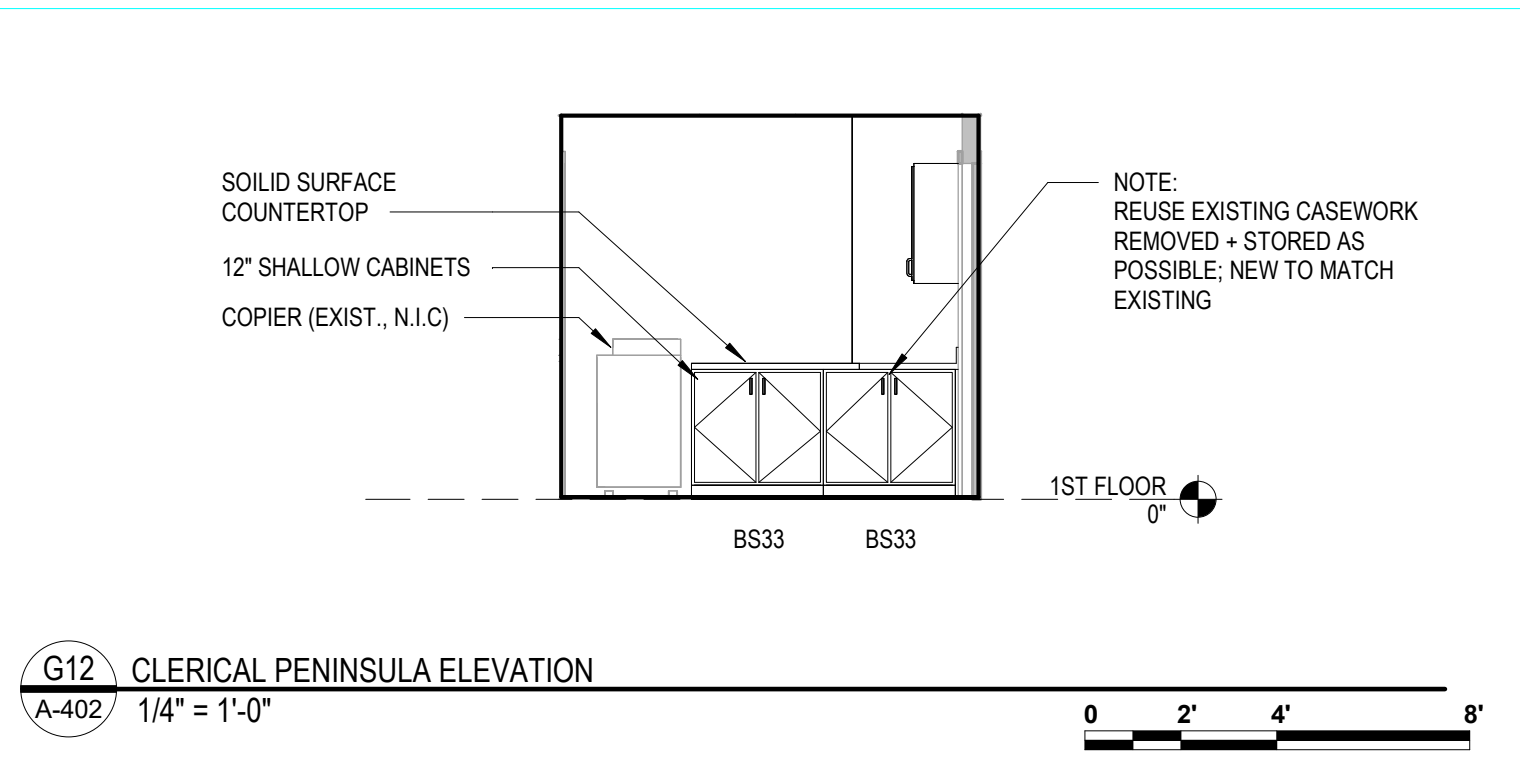
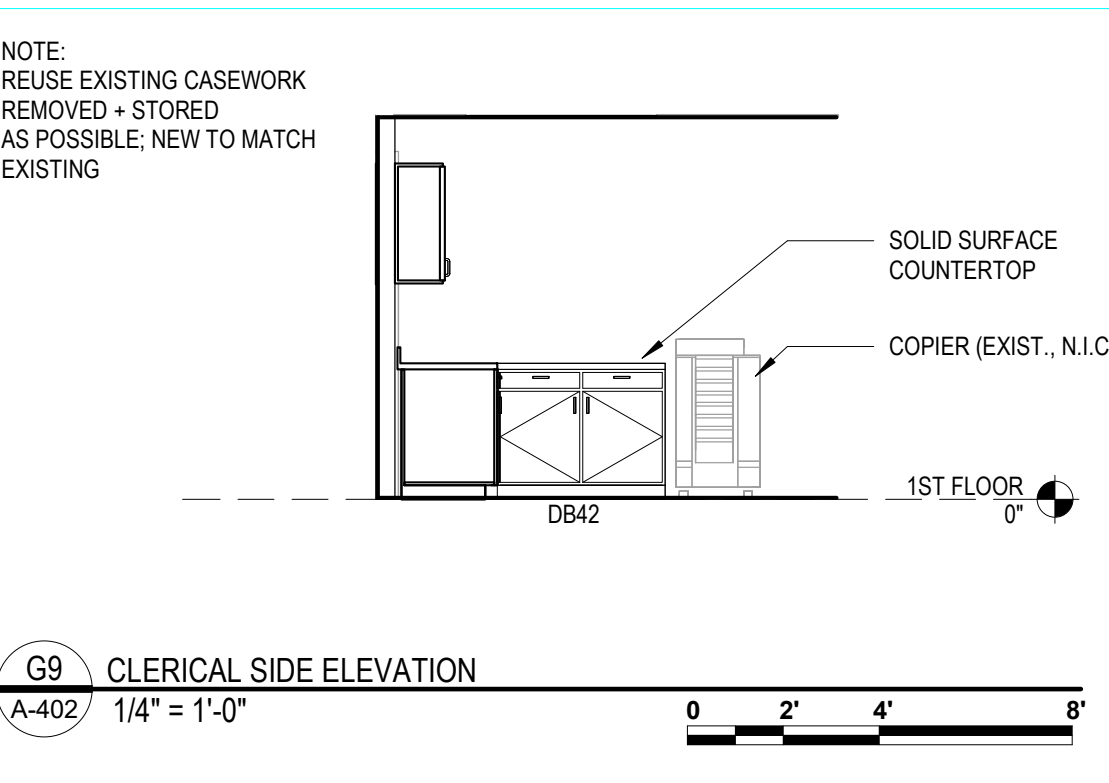
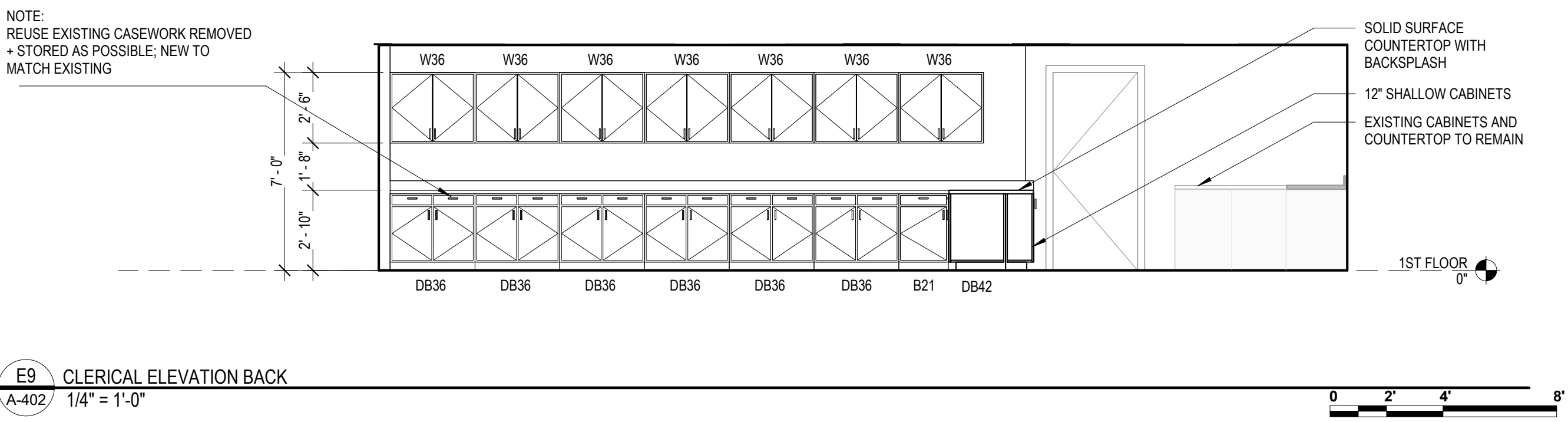
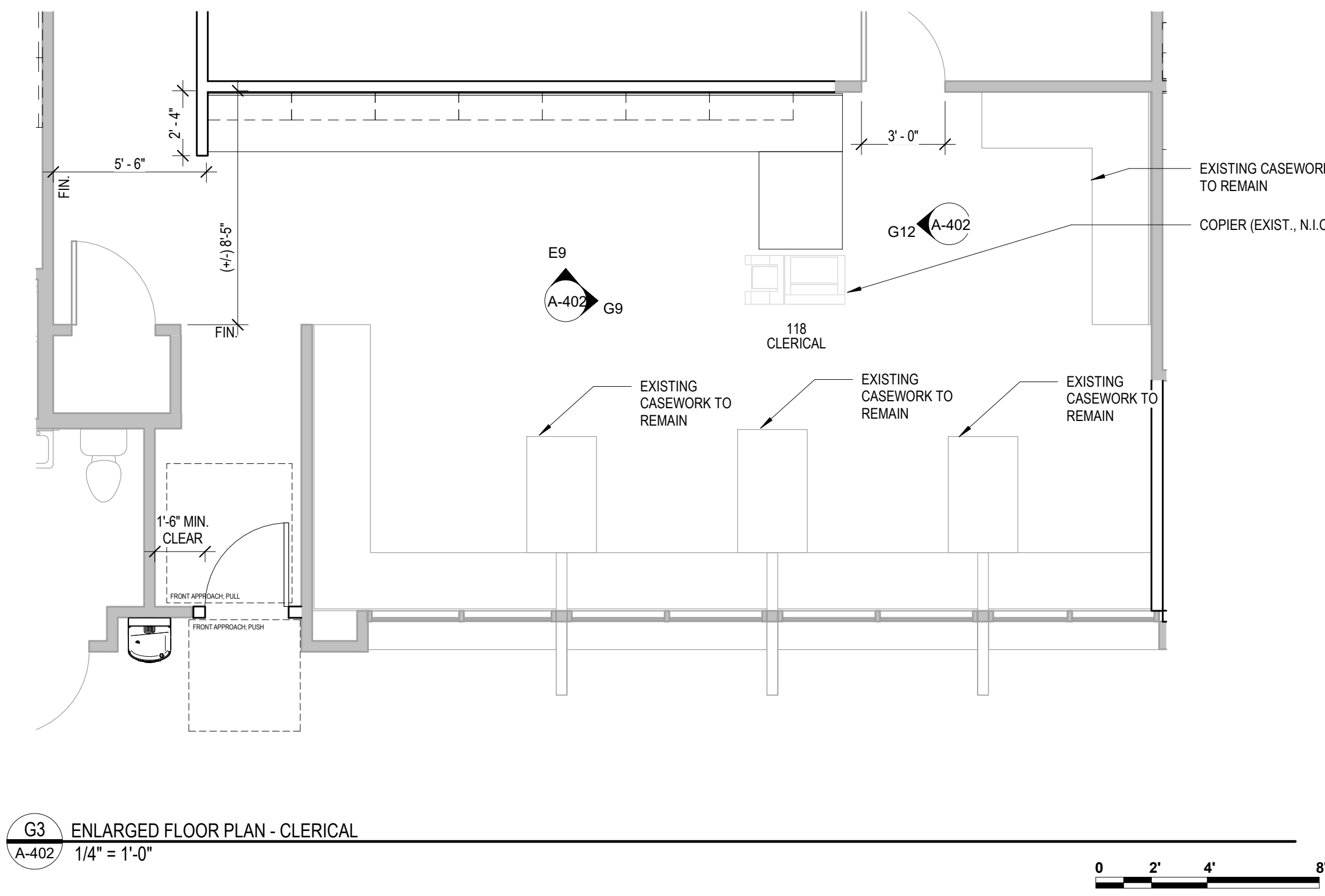
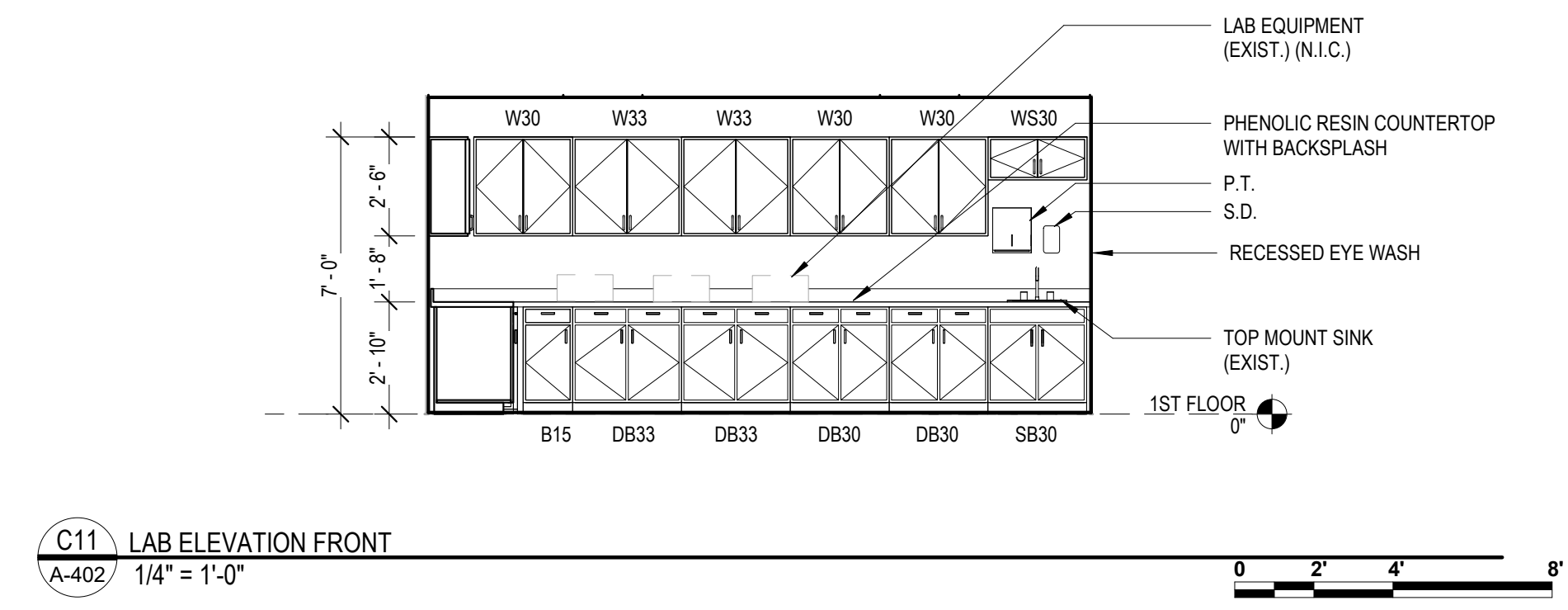
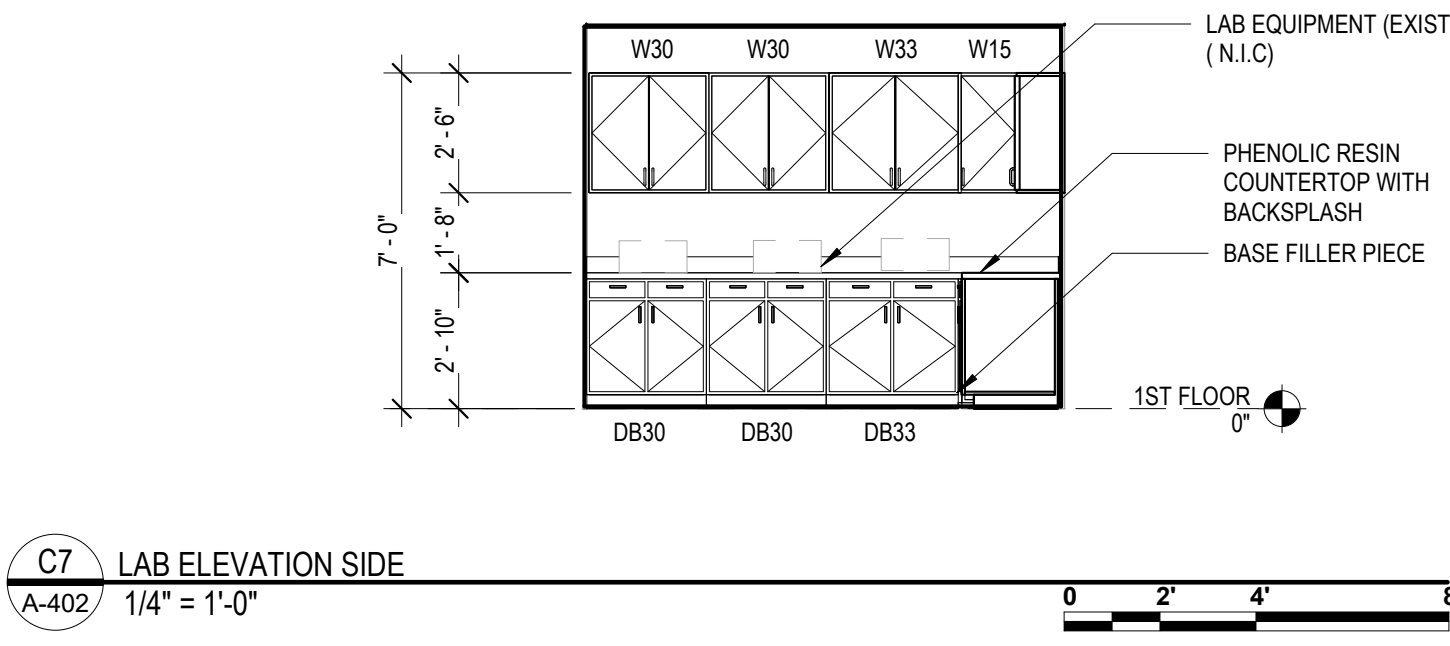
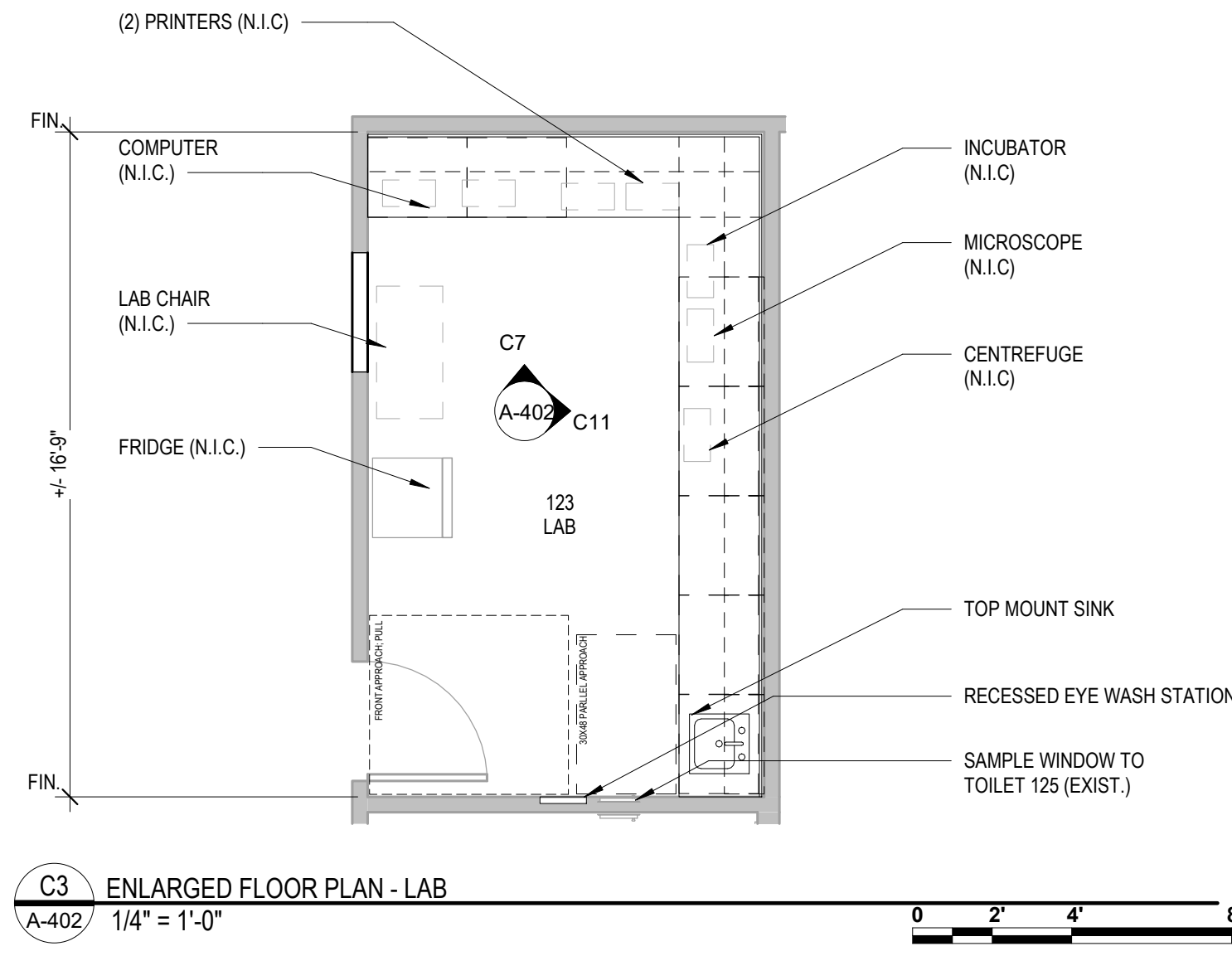
ENLARGED PLANS AND INTERIOR ELEVATIONS

Issue	Issued by	Drawn by	Date
RFC	AS	SHUD	06/21/2024



1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

a  
b  
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k  
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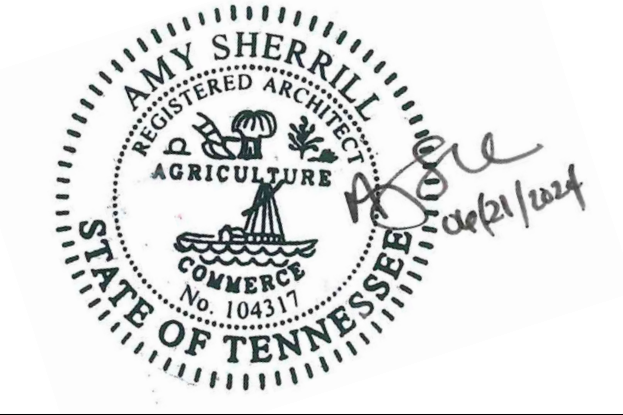


**benefield · richters**  
planning  
architecture  
902 North Central Street  
Knoxville, TN 37917  
(865) 637-7009

**UNION COUNTY HEALTH DEPT. RENOVATIONS**  
4335 MAYNARDVILLE HWY,  
MAYNARDVILLE, TN 37807

**ENLARGED PLANS AND INTERIOR ELEVATIONS**

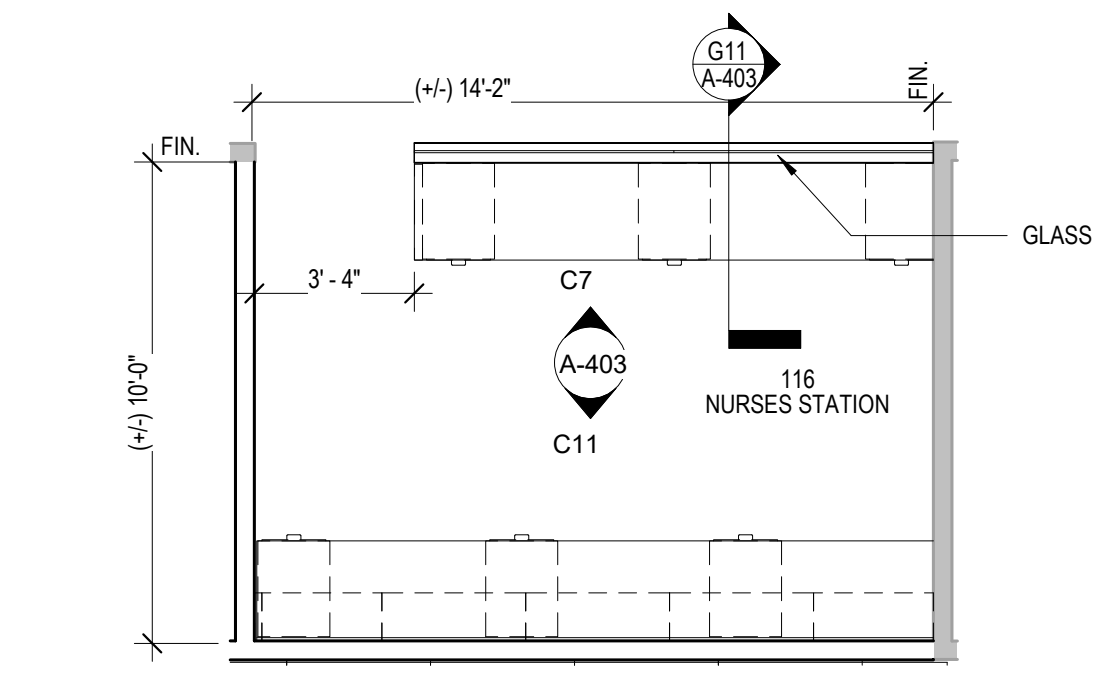
Issue	Issued by	Drawn by	Date
RFC	AS	SHUD	06/21/2024



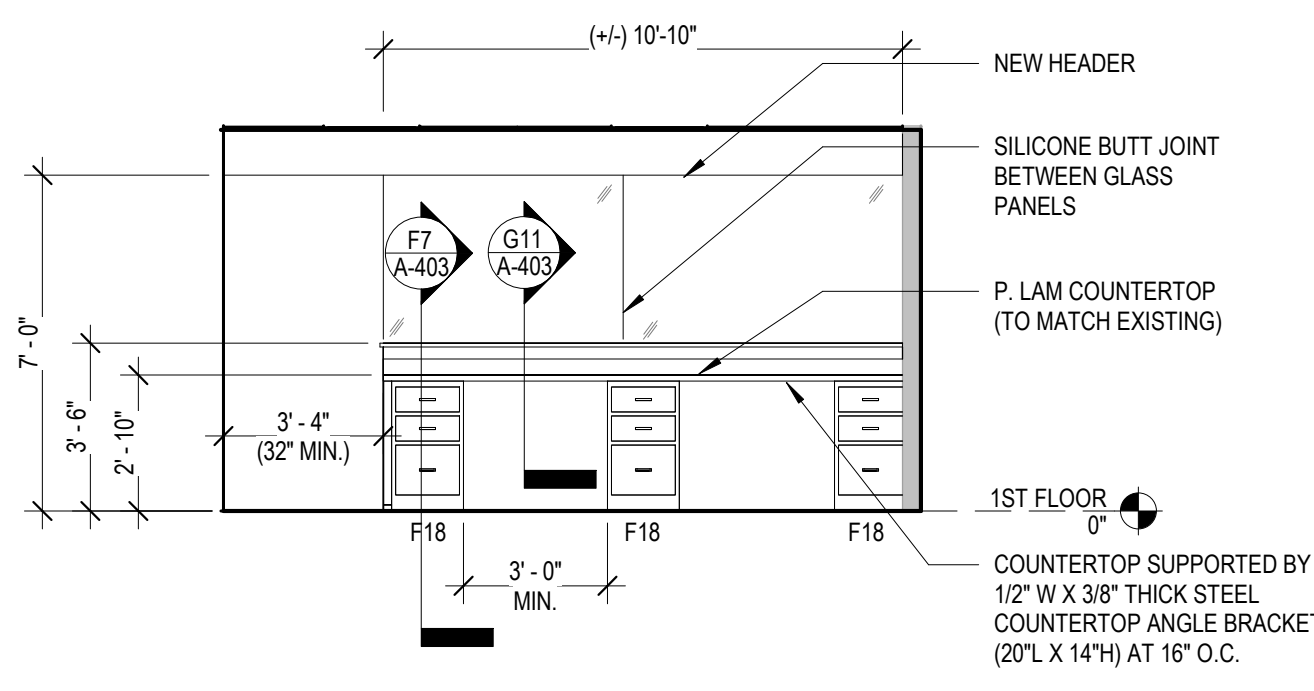
**A-402**

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

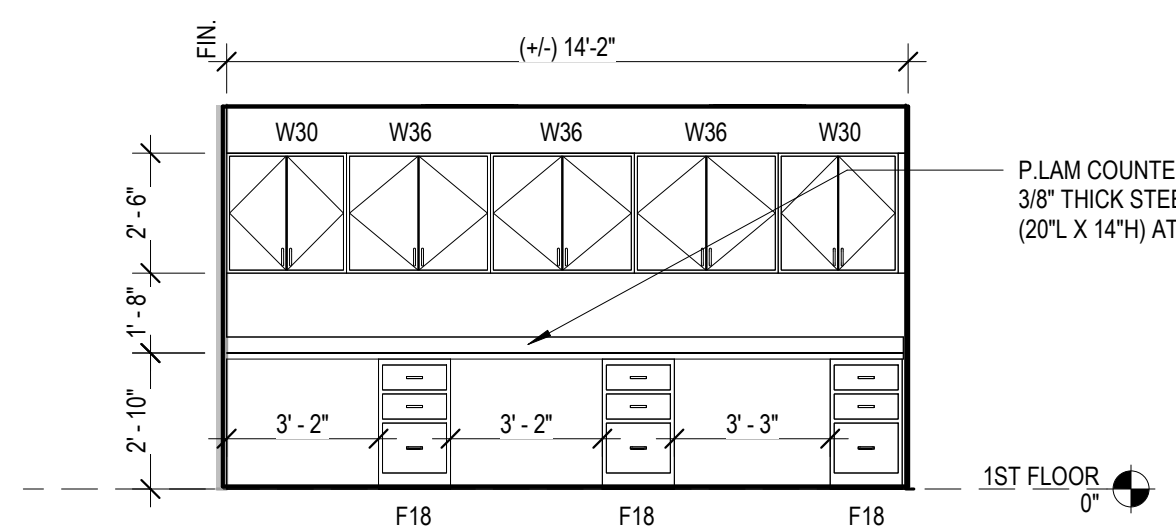
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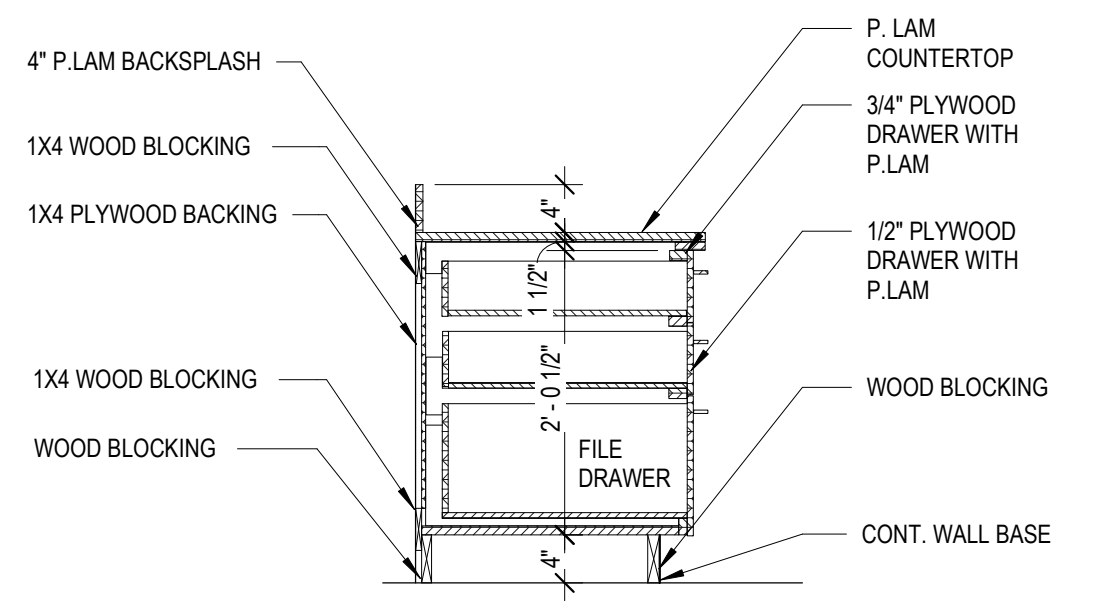
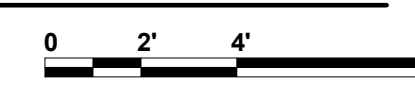
**C3** ENLARGED FLOOR PLAN - NURSES' STATION  
A-403 1/4" = 1'-0"



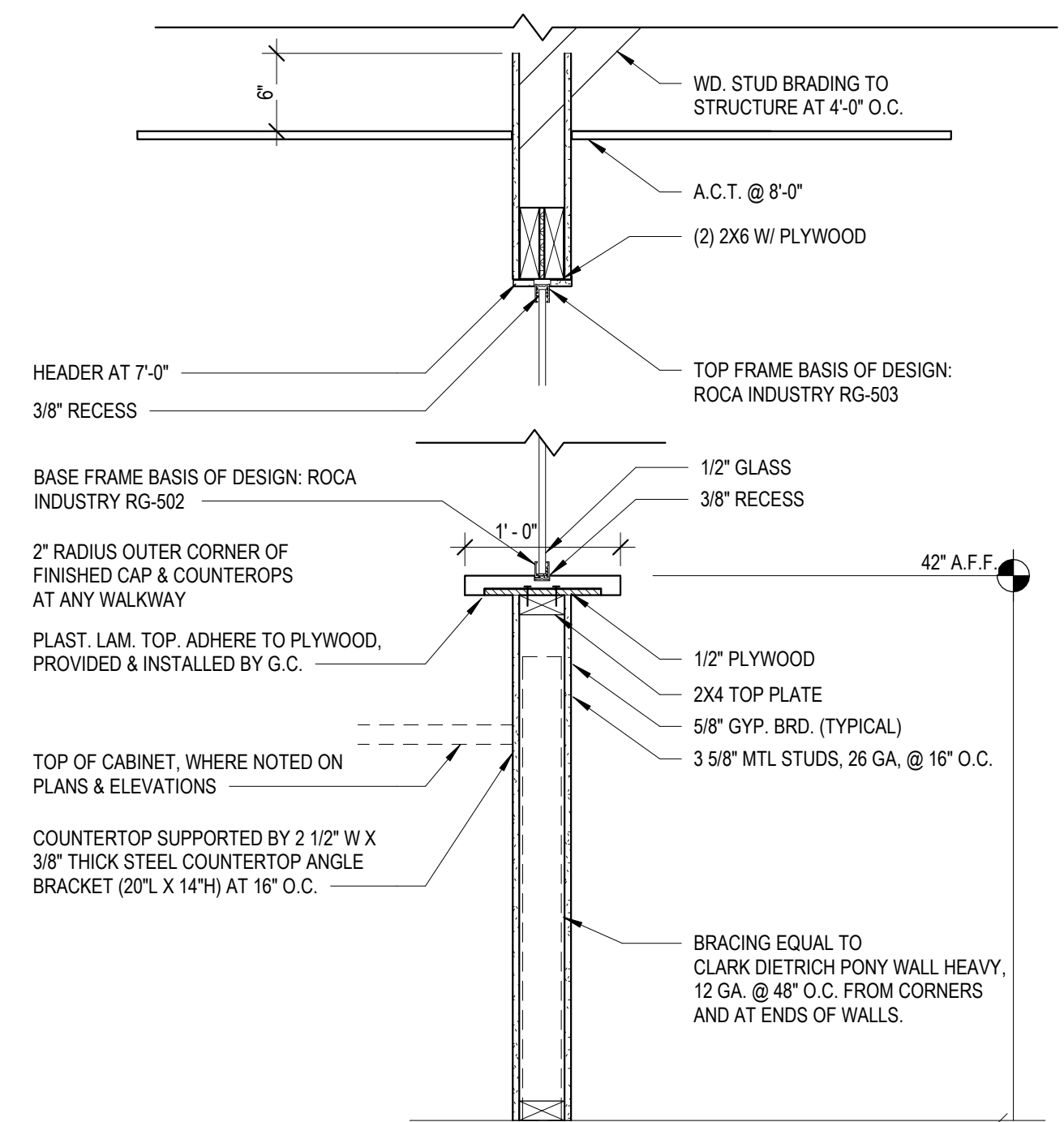
**C7** NURSES' STATION ELEVATION FRONT  
A-403 1/4" = 1'-0"



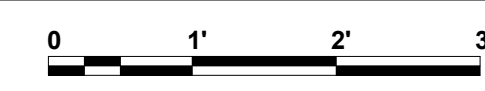
**C11** NURSES' STATION ELEVATION BACK  
A-403 1/4" = 1'-0"



**F7** 3 DRAWER CABINET (LOCKING)  
A-403 3/4" = 1'-0"



**G11** SHORT WALL SECTION  
A-403 1" = 1'-0"



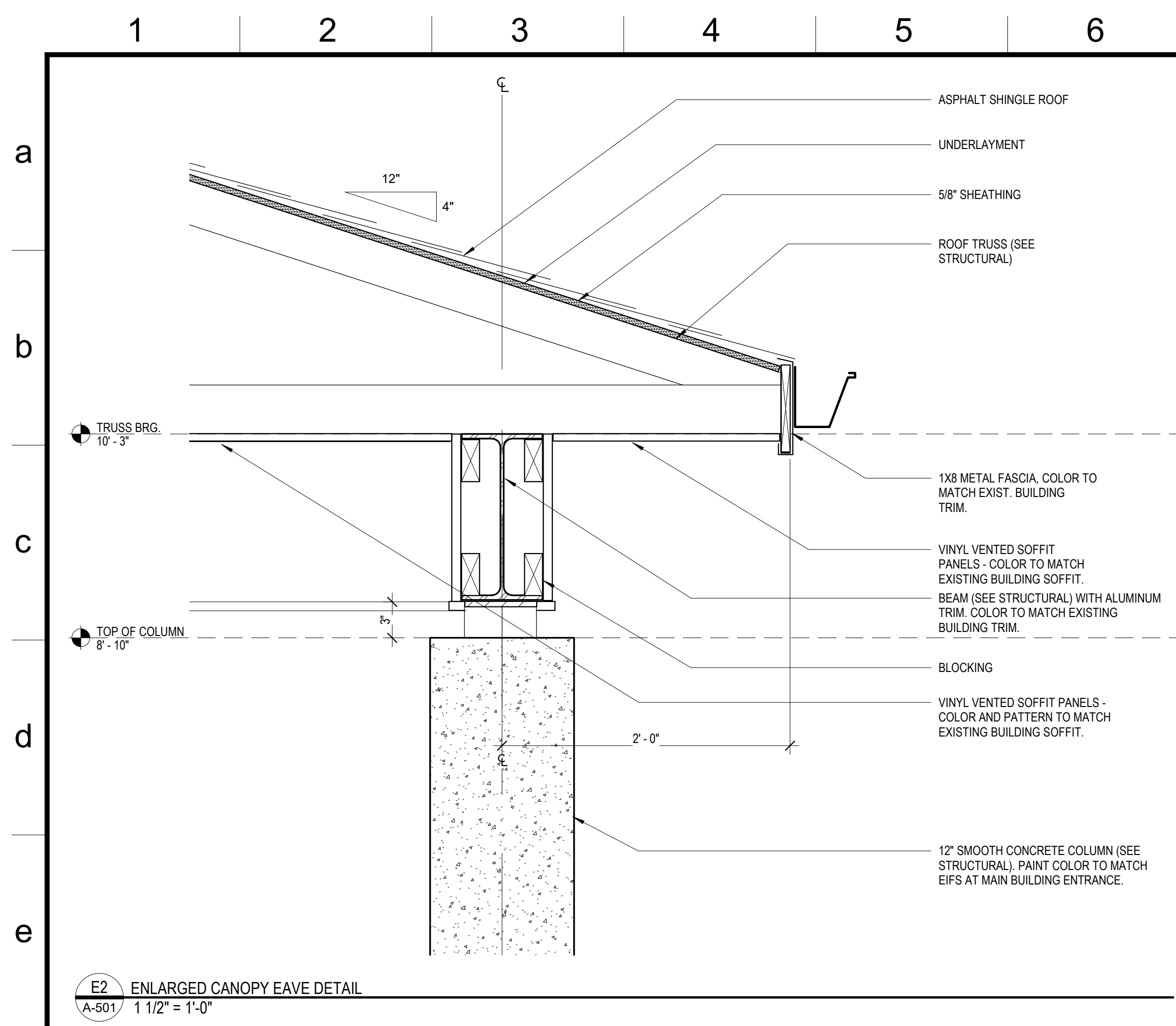
**UNION COUNTY HEALTH DEPT. RENOVATIONS**  
4335 MAYNARDVILLE HWY,  
MAYNARDVILLE, TN 37807

**ENLARGED PLANS AND INTERIOR ELEVATIONS**

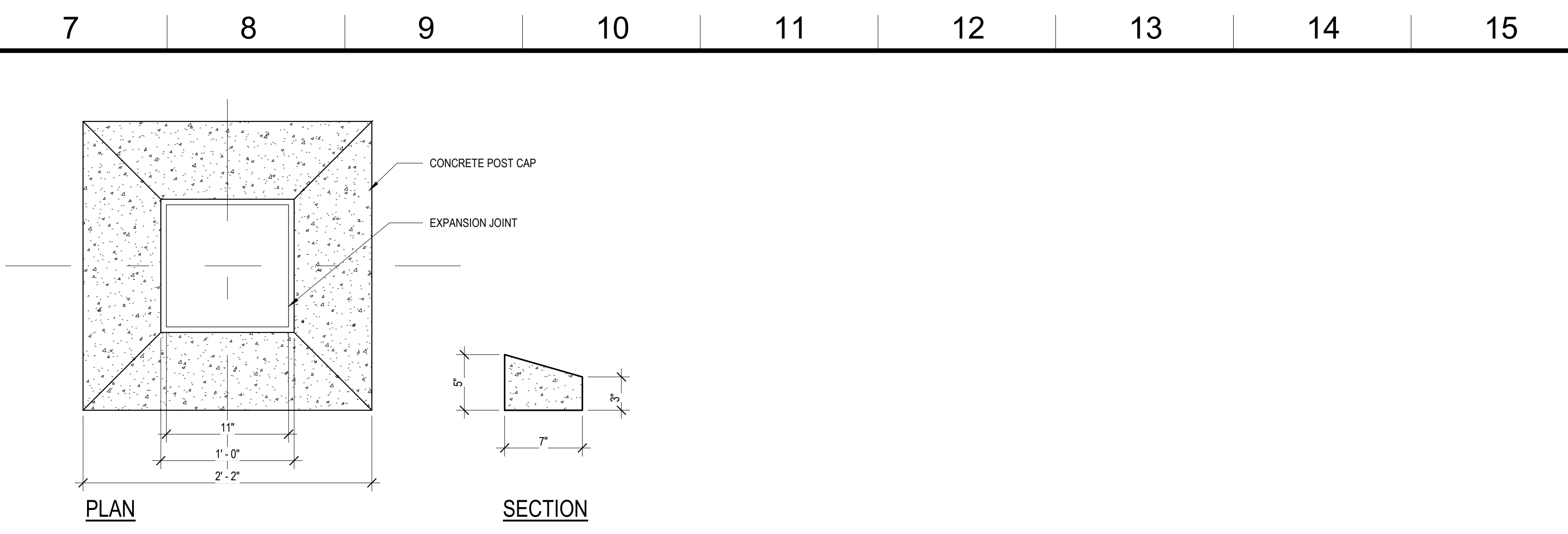
issue	issued by	drawn by	date
RFC	AS	SHUD	06/21/2024



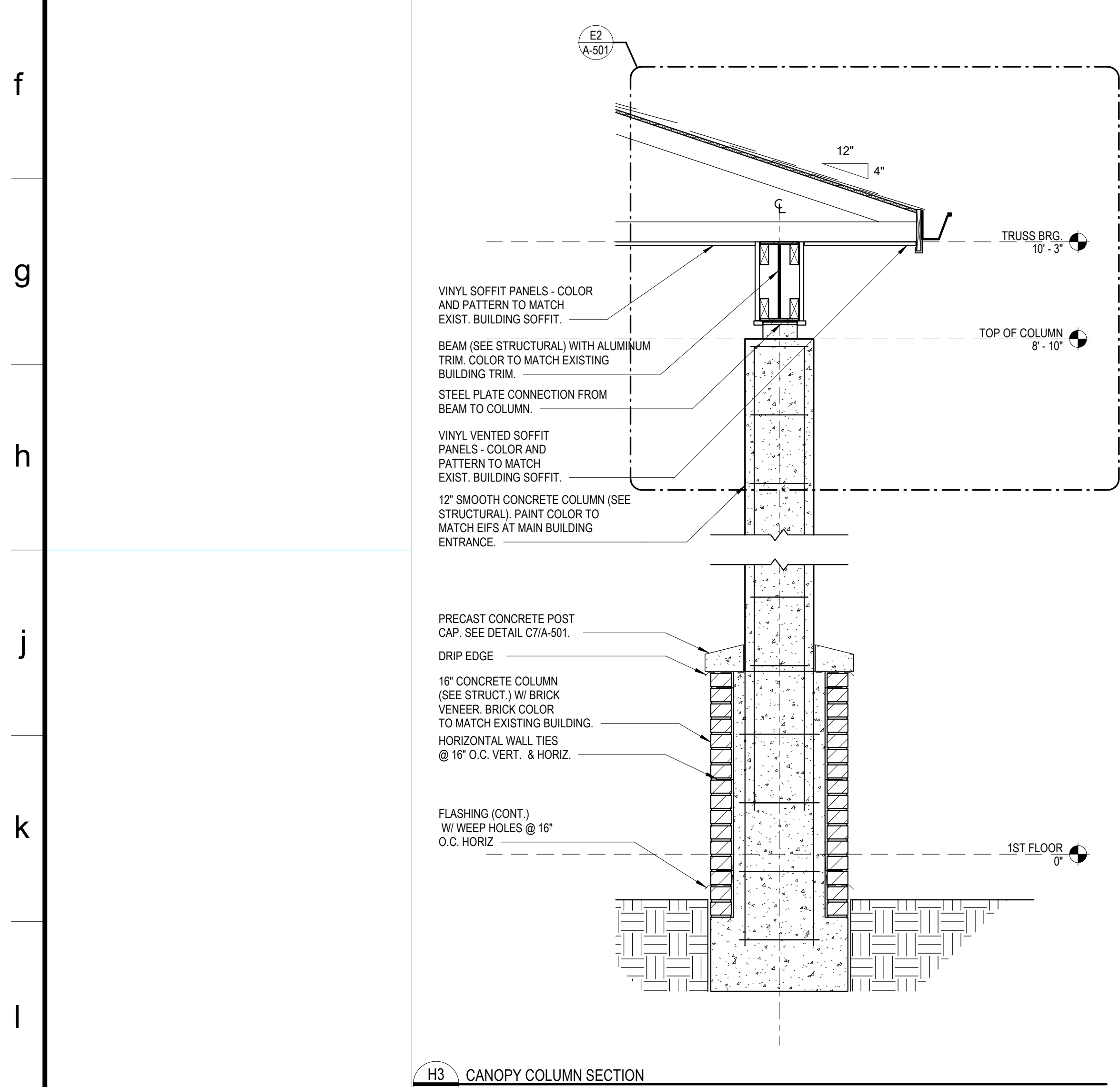




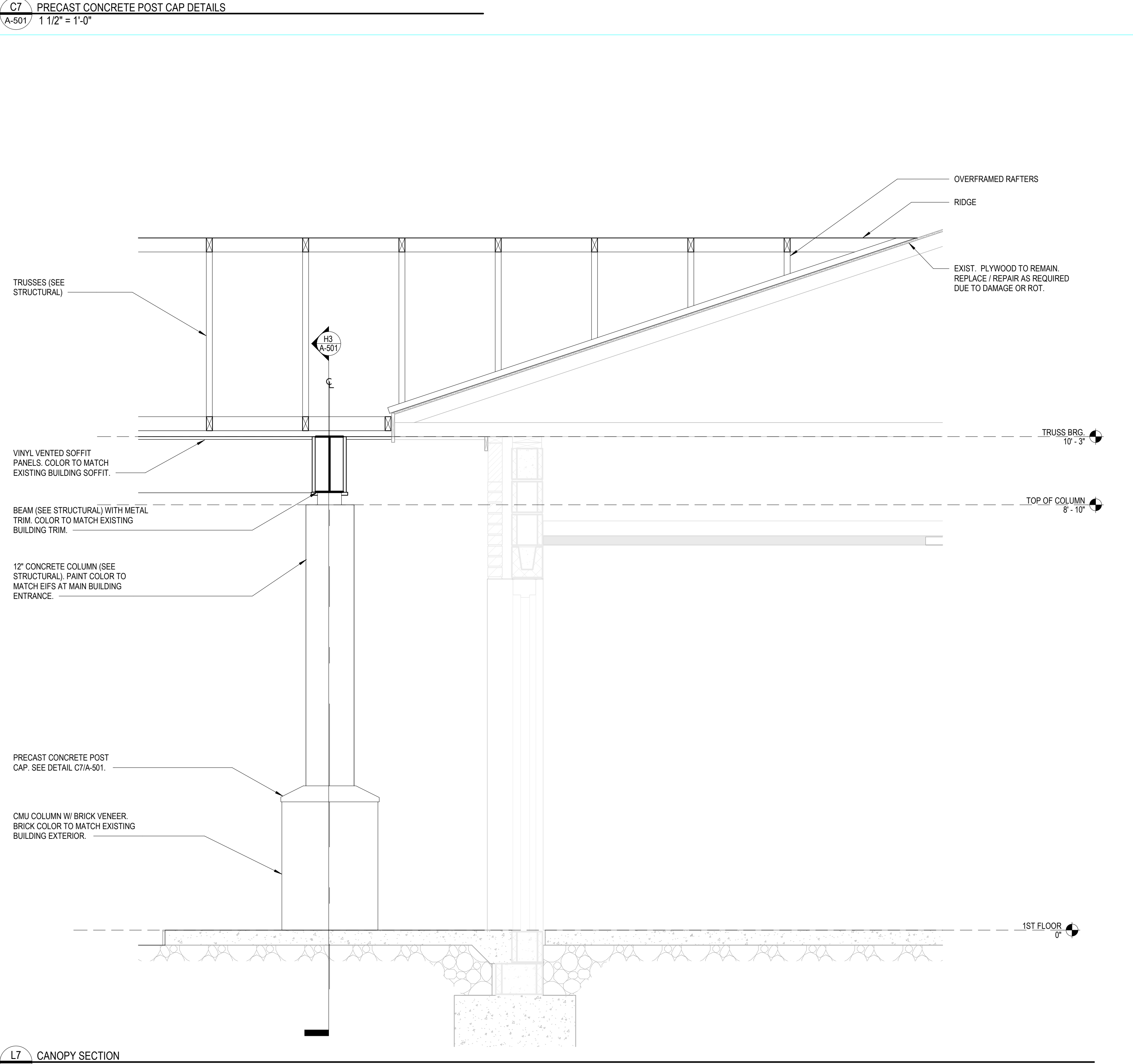
E2 ENLARGED CANOPY EAVE DETAIL  
A-501 1 1/2" = 1'-0"



C7 PRECAST CONCRETE POST CAP DETAILS  
A-501 1 1/2" = 1'-0"



H3 CANOPY COLUMN SECTION  
A-501 3/4" = 1'-0"



L7 CANOPY SECTION  
A-501 3/4" = 1'-0"

UNION COUNTY  
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DETAILS

Issue	Issued by	Drawn by	Date
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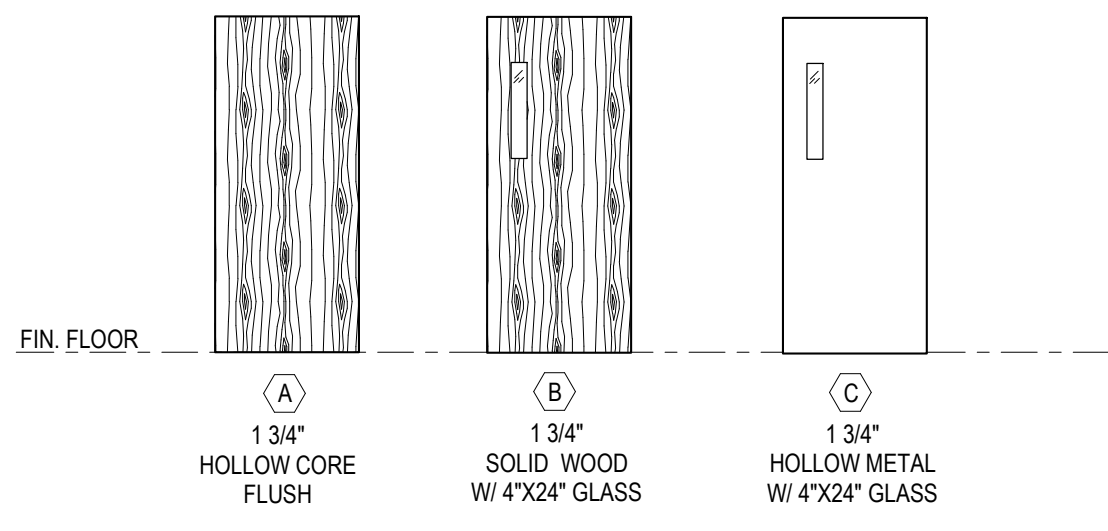


A-501

a  
b  
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e  
f  
g  
h  
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k  
l

DOOR SCHEDULE										
NUMBER	TYPE	DOOR			HARDWARE	FRAME			FIRE RATING	COMMENTS
		WIDTH	HEIGHT			TYPE	JAMB	HEAD		
104A	A (REUSE)	3'-0"	7'-0"		2 (REUSE)	1 (REUSE)	J1 / A-601	J1 / A-601		
115A	B	3'-0"	7'-0"		4	1	J1 / A-601	J1 / A-601		
115B	B	3'-0"	7'-0"		4	1	J1 / A-601	J1 / A-601		
115C	C	3'-0"	7'-0"		5 (REUSE)	1 (EXIST.)	--	--		
115D	C	3'-0"	7'-0"		5 (REUSE)	1 (EXIST.)	--	--		
117A	A (REUSE)	3'-0"	7'-0"		2 (REUSE)	1 (REUSE)	J1 / A-601	J1 / A-601		
118A	A (REUSE)	3'-0"	7'-0"		4	1 (REUSE)	--	--		
120A	A (REUSE)	3'-0"	7'-0"		3 (REUSE)	1 (REUSE)	J1 / A-601	J1 / A-601		
122A	B	3'-0"	7'-0"		1 (REUSE)	1 (REUSE)	J1 / A-601	J1 / A-601		
127A	A (REUSE)	3'-0"	7'-0"		3 (REUSE)	1 (REUSE)	J1 / A-601	J1 / A-601		
129A	--	3'-0"	7'-0"		--	--	--	--		NEW LOCKSET
130A	A (REUSE)	3'-0"	7'-0"		2 (REUSE)	1 (REUSE)	J1 / A-601	J1 / A-601		
132A	--	3'-0"	7'-0"		--	--	--	--		NEW CYLINDER ONLY

NOTE: SEE DEMO PLAN FOR RESUED DOORS, FRAMES, AND HARDWARE



NOTE:  
1. GLAZING IN DOORS TO BE SAFETY GLAZED, TEMPERED, & PASS REQUIREMENTS OF CPSC 16-CFR, PART 1201 AND COMPLY WITH ANSI Z97.1  
2. WHERE REQUIRED, FIRE-RESISTIVE RATED GLAZING, MEETING ASTM E119 AND IBC 716.1.2.3

**HARDWARE SCHEDULE**

SET NO. 1 (PASSAGE)

1 1/2	PR. BUTT HINGES	IVES	5BB1, 4 1/2 X 4 1/2
1	EA. LOCKSET	SCHLAGE	ND10PD, ANSI F75 (PASSAGE)
1	EA. WALLSTOP	HAGER	232W
3	EA. SILENCERS	HAGER	307D

SET NO. 2 (OFFICE)

1 1/2	PR. BUTT HINGES	IVES	5BB1, 4 1/2 X 4 1/2
1	EA. LOCKSET	SCHLAGE	ND50PD, ANSI F82 (OFFICE LOCK)
1	EA. WALLSTOP	HAGER	232W
3	EA. SILENCERS	HAGER	307D

SET NO. 3 (STORAGE)

1 1/2	PR. BUTT HINGES	IVES	5BB1, 4 1/2 X 4 1/2
1	EA. LOCKSET	SCHLAGE	ND96PD, ANSI F86 (STOREROOM)
1	EA. WALLSTOP	HAGER	232W
3	EA. SILENCERS	HAGER	307D

SET NO. 4 (SECURE DOORS)

1 1/2	PR. BUTT HINGES	IVES	5BB1, 4 1/2 X 4 1/2
1	EA. LOCKSET	SCHLAGE	CO - 100 50-KP (OFFICE)
1	EA. CLOSER	LCN	4050
1	EA. WALLSTOP	HAGER	232W
3	EA. SILENCERS	HAGER	307D

SET NO. 5 (EXIT)

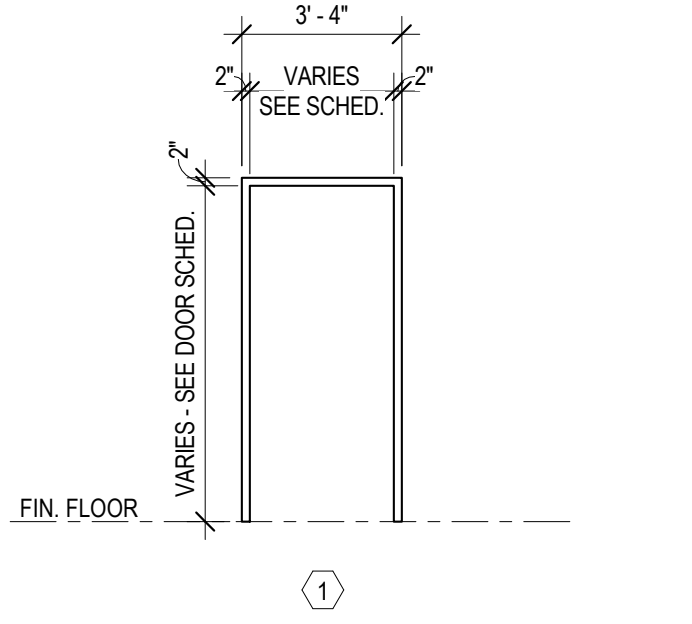
REUSE EXISTING DOOR HARDWARE

KEYING:  
OFFICE 117A AND 131A TO INDIVIDUALLY KEYED  
REMAINDER OF BUILDING TO BE KEYED SAME

NOTE:  
1. FINISHES TO BE 626 SATIN CHROME PLATE, U.N.O.  
2. HANDLES TO BE LEVER TYPE EQUAL TO SCHLAGE 'ATHENS', U.N.O.

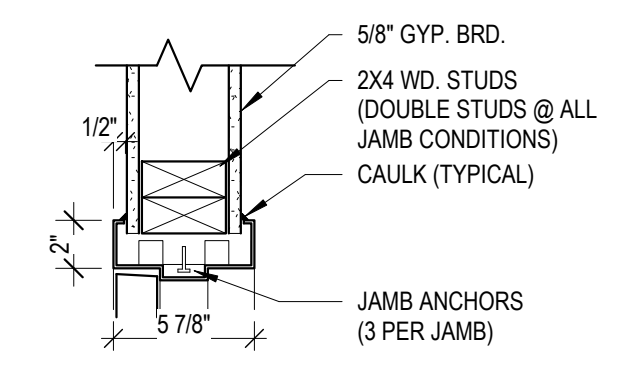
**D1 DOOR TYPES**

A-601 1/4" = 1'-0"



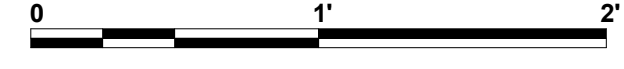
**F1 HOLLOW METAL FRAME TYPES**

A-601 1/4" = 1'-0"



**H1 INT H.M. HEAD/JAMB - WD 2X4 STUDS**

A-601 1 1/2" = 1'-0"

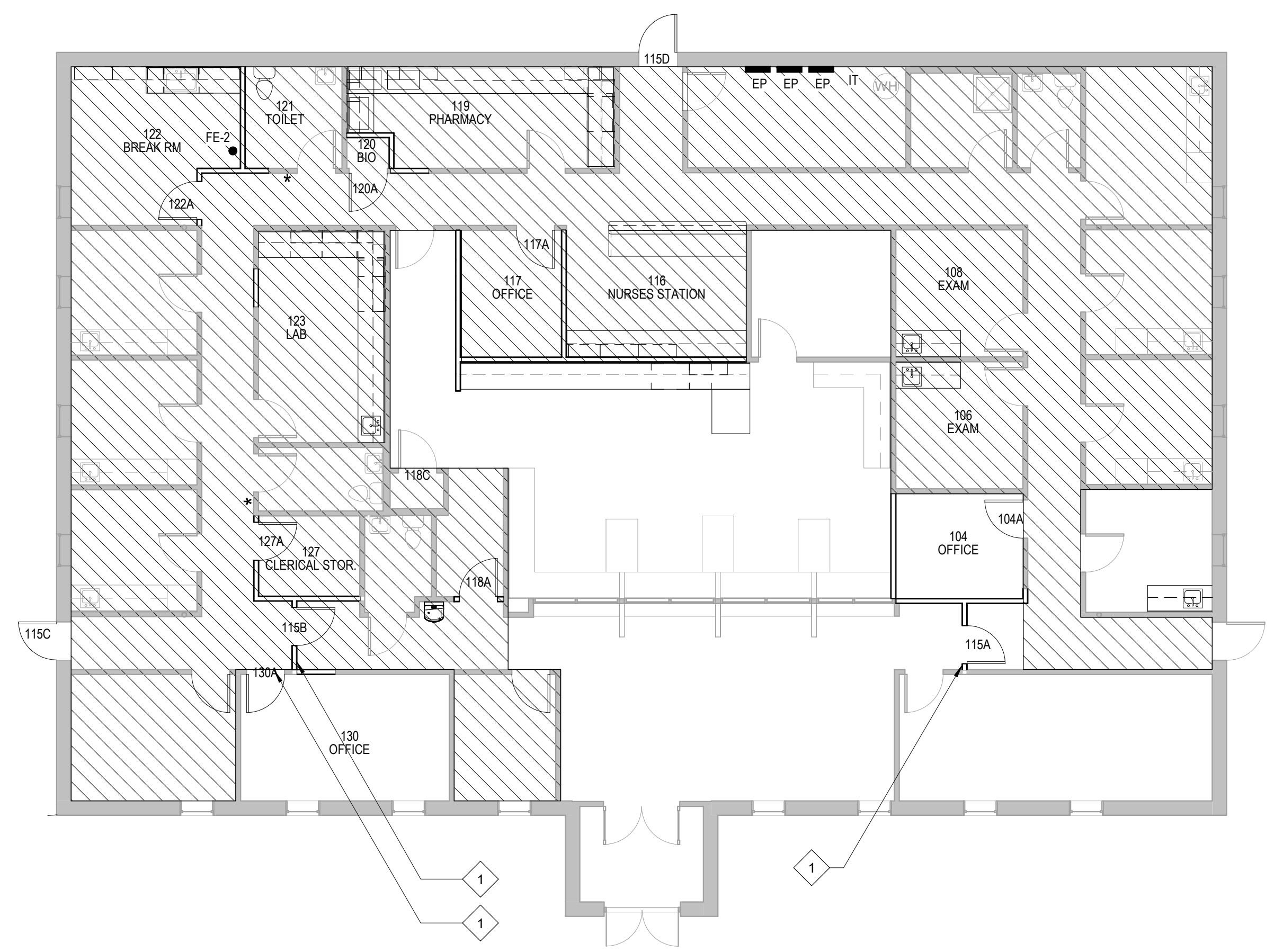


UNION COUNTY  
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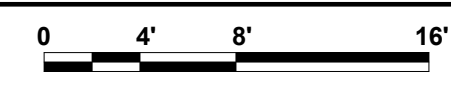
**DOORS, WINDOWS, & SCHEDULES**

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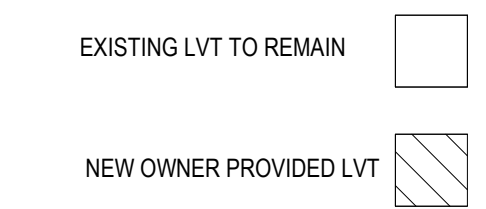
G2 FIRST FLOOR PLAN  
A-701 1/8" = 1'-0"



**FINISH FLOOR PLAN KEYNOTES:** #

- CUT BACK EXISTING LVT TO DOOR THRESHOLD. KEY NEW LVT INTO EXISTING TO AVOID HAVING A CONTINUOUS SEAM AT BUTT JOINT

**FLOOR FINISH LEGEND**



FINISH SCHEDULE								
ROOM NUM.	DESCRIPTION	FLOOR LVT	WALL PAINT	WALL VINYL WALL BASE	CEILING A.C.T	CASEWORK COUNTERTOP	CASEWORK CABINET-LAM.	NOTES
101	ENTRY	--	--	--	C.1	--	--	
102	LOBBY	--	--	--	C.1	--	--	
103	COMMUNITY ROOM	--	--	--	C.1	--	--	
104	OFFICE	--	PT.1	--	C.1	--	--	
105	EXAM	--	--	--	C.1	M2	M.1	
106	EXAM	LVT.1	PT.1	VWB.1	C.1	M2	M.1	ALT. 1 CASEWORK
107	EXAM	LVT.1	--	VWB.1	C.1	--	--	
108	EXAM	LVT.1	PT.1	VWB.1	C.1	M2	M.1	ALT. 1 CASEWORK
109	EXAM	LVT.1	--	VWB.1	C.1	--	--	
110	OFFICE	--	--	--	C.1	--	--	
111	EXAM	LVT.1	--	VWB.1	C.1	--	--	
112	TOILET	LVT.1	--	VWB.1	C.1	--	--	
113	JAN	LVT.1	--	VWB.1	C.1	--	--	
114	MECH. ELEC. IT	LVT.1	--	VWB.1	C.1	--	--	
115	CORRIDOR	LVT.1	PT.1	VWB.1	C.1	--	--	
116	NURSES'S STATION	LVT.1	PT.1	VWB.1	C.1	M.3	M.1	
117	OFFICE	LVT.1	PT.1	VWB.1	C.1	--	--	
118	CLERICAL	--	PT.1	--	C.1	M.2	M.1	
119	PHARMACY	LVT.1	PT.1	VWB.1	C.1	M2	M.1	
120	BIO	LVT.1	PT.1	VWB.1	C.1	--	--	
121	TOILET	LVT.1	PT.2	VWB.1	C.1	--	--	
122	BREAK RM	LVT.1	PT.1	VWB.1	C.1	M.3	M.1	ALT. 2 CASEWORK
123	LAB	LVT.1	PT.1	VWB.1	C.1	M2	M.1	
124	EXAM	LVT.1	--	VWB.1	C.1	--	--	
125	TOILET	LVT.1	--	VWB.1	C.1	--	--	
126	EXAM	LVT.1	--	VWB.1	C.1	--	--	
127	CLERICAL STOR.	LVT.1	PT.1	VWB.1	C.1	--	--	
128	EXAM	LVT.1	--	VWB.1	C.1	--	--	
129	MED SUPPLY RM	LVT.1	--	VWB.1	C.1	--	--	
130	OFFICE	--	PT.1	--	C.1	--	--	
131	TOILET	LVT.1	--	VWB.1	C.1	--	--	
132	OFFICE	LVT.1	--	VWB.1	C.1	--	--	
133	COORIDOR	LVT.1	PT.1	VWB.1	C.1	--	--	

FINISH LEGEND					
	TAG	SOURCE	COLOR	SIZE	MATERIAL
FLOOR	LVT.1	OWNER PROVIDED LVT PLANKS	TO BE DETERMINED BY ARCHITECT		LVT
BASE	VWB.1		TO BE DETERMINED BY ARCHITECT		VINYL
CEILING	C.1		TO BE DETERMINED BY ARCHITECT	2x4	A.C.T
PAINT	PT.1		TO BE DETERMINED BY ARCHITECT		EGGSHELL
	PT.2		TO BE DETERMINED BY ARCHITECT		SEMI GLOSS
CASEWORK	M.1		TO BE DETERMINED BY ARCHITECT		LAMINATE CABINET
	M.2	CORIAN	WILLOW		SOLID SURFACE COUNTERTOP
	M.3		TO BE DETERMINED BY ARCHITECT		LAMINATE COUNTERTOP

**FINISH SCHEDULE NOTES**

- SEE A-801 SECTION 01 73 19 "CUTTING AND PATCHING" FOR INSTRUCTIONS ON MATCHING AND CLEANING UP EDGES BETWEEN NEW AND EXISTING CEILING.
- NEW LVT DIRECTION AND PATTERN TO MATCH EXISTING.
- LVT INSTALLED OVER EXISTING VCT
- PAINT ONLY WALLS AFFECTED BY NEW CONSTRUCTION (NEW WALLS AND WALLS WITH NEW CASEWORK)

**UNION COUNTY HEALTH DEPT. RENOVATIONS**  
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**FIRST FLOOR FINISH PLAN**

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A-701

ARCHITECTURE SPECIFICATIONS

DIVISION 1 - GENERAL REQUIREMENTS

SEE PROJECT MANUAL FOR ADDITIONAL REQUIREMENTS

SECTION 01 73 19 CUTTING AND PATCHING

- A. REMOVE EXISTING CONSTRUCTION AS NECESSARY TO PERMIT INSTALLATION OF PERFORMANCE OF OTHER WORK. FIT AND REPAIR WORK IN ORDER TO RESTORE SURFACES TO ORIGINAL CONDITIONS AFTER INSTALLATION OF WORK. USE MATERIALS IDENTICAL TO EXISTING MATERIALS. VERIFY COMPATIBILITY AND SUITABILITY WITH SUBSTRATES, INCLUDING EXISTING FINISHES OR PRIMERS. B. PROVIDE TEMPORARY SUPPORT TO EXISTING CONSTRUCTION. C. PROTECT EXISTING CONSTRUCTION DURING WORK. AVOID INTERFERENCE WITH USE OF ADJOINING AREAS OR INTERRUPTION OF FREE PASSAGE. D. AVOID INTERRUPTION OF SERVICES TO OCCUPIED AREAS. E. CUTTING: CUT HOLES AND SLOTS AS SMALL AS POSSIBLE, NEATLY TO SIZE, AND WITH MINIMUM OF DISTURBANCE. F. PATCHING: TEST PATCHING TO DEMONSTRATE SUITABILITY OF INSTALLATION. RESTORE EXPOSED FINISHES AND EXTEND FINISH RESTORATION ONTO RETAINED ADJOINING CONSTRUCTION IN A MANNER THAT WILL ELIMINATE EVIDENCE OF CUTTING AND PATCHING. PROVIDE AN EVEN SURFACE OF UNIFORM FINISH, COLOR, TEXTURE, AND APPEARANCE.

DIVISION 2 - EXISTING CONDITIONS

SECTION 02 21 00 - SURVEYS

SECTION 02 26 00 - HAZARDOUS MATERIAL ASSESSMENT

SECTION 02 30 00 - SUBSURFACE INVESTIGATION

DIVISION 3 - CONCRETE

SECTION 03 30 10 - CAST-IN-PLACE CONCRETE

- A. CONCRETE MIX: SEE STRUCTURAL DRAWINGS. B. REINFORCING: SEE STRUCTURAL DRAWINGS. C. MISCELLANEOUS STEEL: SEE STRUCTURAL DRAWINGS. D. MIX AND PLACEMENT: SEE STRUCTURAL DRAWINGS. E. FINISH: a. INTERIOR: SMOOTH TROWEL FINISH, U.N.O. b. EXTERIOR: LIGHT BROOM FINISH, U.N.O. F. CURING COMPOUND: IN ACCORDANCE WITH ACI 301 "SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS". G. SEALER: CLEAR, WATERBORNE, MEMBRANE FORMING CURING COMPOUND, ASTM C 309, TYPE 1, CLASS B, WITH 30% SOLIDS. H. TESTING OF CONCRETE: SEE STRUCTURAL DRAWINGS. I. FORMWORK: SEE STRUCTURAL DRAWINGS. J. CONTRACTION JOINTS: SEE STRUCTURAL DRAWINGS.

DIVISION 4 - MASONRY

SECTION 04 15 00 - COMMON WORK RESULTS FOR MASONRY

- A. MORTAR: TYPE 'S', 1,800 PSI MIN. ASTM C 150, TYPE I OR II. a. HYDRATED LIME ASTM C 207 b. COLOR: AS SELECTED BY ARCHITECT. c. SAND: NATURAL B. GROUT: 2,000 PSI MIN. C. AGGREGATE: ASTM C 404 D. REINFORCING BAR: a. REBAR: ASTM A 615, GRADE 60 b. CONFORM TO ACI 315, "MANUAL OF STANDARD PRACTICE" c. LAP SPLICE: 48 BAR DIAMETERS MIN.; DEVELOPMENT SHALL BE 36 BAR DIAMETERS, U.N.O. HORIZONTAL JOINT REINFORCING: LADDER-TYPE WITH 9GA. RODS. SPACE 16 INCHES O.C. VERT. U.N.O. ASTM A 951 E. ANCHORS: HOT DIPPED GALVANIZED, SCREW ATTACHED, ADJUSTABLE HT. TRIANGULAR TIE SECTION FOR MASONRY VENEERS. INSTALLED ONE PER 2.667 SF. G. ACCESSORIES: a. CONTROL JOINTS: PREMOLDED RUBBER b. EXPANSION JOINTS: BACKER ROD WITH SEALANT c. CONCEALED THRU WALL FLASHING, EPDM, 0.040 THICK d. EXPOSED FLASHING, PREFINISHED METAL W/ HEMMED EDGES. e. WEEP HOLES: RECYCLED POLYESTER MESH, 90% OPEN AIR. INSTALL FULL HEAD JOINT, EVERY 3RD BRICK OR 24" MAX. COLOR TO MATCH MORTAR.

SECTION 04 20 00 - UNIT MASONRY

- A. CONCRETE UNIT MASONRY: a. HOLLOW LOAD-BEARING CMU: ASTM C90, NORMAL WEIGHT, 2,000 PSI MIN. NOMINAL 8" X 16" b. EXPOSED FACE: SMOOTH FACED. c. PATTERN: RUNNING BOND; JOINTS TO BE TOOLED, CONCAVE. B. BRICK: FACE BRICK, ASTM C 216, GRADE SW, TYPE F8S. MODULAR SIZE, COLOR AND PATTERN TO MATCH EXISTING BUILDING.

DIVISION 5 - STEEL

SECTION 05 10 00 - STRUCTURAL STEEL (SEE STRUCTURAL DRAWINGS)

DIVISION 6 - WOOD AND PLASTIC

SECTION 06 10 00 - ROUGH CARPENTRY

- A. FRAMING AND BLOCKING: NO. 2 KD, SOUTHERN YELLOW PINE. TREATED WOOD WHEN IN CONTACT WITH MASONRY, CONCRETE, OR STEEL. MOISTURE CONTENT NOT TO EXCEED 19%, DRESSED. B. PLYWOOD OR OSB ROOF SHEATHING: EXTERIOR OR EXPOSURE 1, SPAN RATING NOT LESS THAN 24 / 0, MIN. THICKNESS 5/8".

DIVISION 7 - THERMAL & MOISTURE PROTECTION

SECTION 07 10 00 - DAMPROOFING

SECTION 07 21 00 - THERMAL INSULATION

- A. FIBERGLASS BATT INSULATION: ASTM C 665, TYPE I (UNFACED). B. MINERAL FIBER (ROCK WOOL) LOOSE FILL: ASTM C 754-02 C. MINERAL FIBER/ROCK WOOL FIBER BOARD INSULATION: ASTM C 612, COMPRESSIVE STRENGTH OF 720 PSF. WATER RESISTANT, SIMILAR TO "THERMAFIBER RAIN BARRIER 110" BY OWENS CORNING. D. POLYISOCYANURATE BOARD INSULATION a. ASTM C 1289, TYPE I (ALUM FOIL FACED), CLASS 1 OR 2 b. ASTM C 1289, TYPE II (GLASS FIBER/ORGANIC MAT), CLASS 1 c. ROOF, TOP LAYER: POLYISOCYANURATE, ASTM C 1289, TYPE V(OSB BASE), 7/16 INCH THICK OSB BONDED TO UPPER SURFACE. E. EXTRUDED POLYSTYRENE (XPS) BOARD INSULATION a. ASTM C 578, TYPE X (15PSF COMPRESSIVE STRENGTH, 1.30 LBS. PER CUBIC FEET) F. FOAM SEALANT: EXPANDABLE, CLOSED-CELL. G. R-VALUE: NOTED ON DRAWINGS.

SECTION 07 24 00 - EXTERIOR INSULATION FINISH SYSTEM (EIFS)

- A. BASIS OF DESIGN: "STOTHERM CI MENERAL" AS MANUFACTURED BY STO CORPORATION. B. INSULATION: THERMAFIBER MINERAL WOOL INSULATION BOARD, EQUAL TO THERMAFIBER AS MANUFACTURED BY OWENS CORNING. R-4.0 PER INCH THICKNESS. C. REINFORCING MESH: HIGH IMPACT RESISTANCE, 90-150 IN-LBS. D. BASE COAT: MANUFACTURER'S STANDARD. E. FINISH COAT: ACRYLIC BASE, INTEGRALLY COLORED TEXTURED FINISH. COLOR AS SELECTED BY ARCHITECT. F. ACCESSORIES: MANUFACTURER'S STANDARD.

SECTION 07 46 35 - VINYL SIDING

- A. BASIS-OF-DESIGN: "CALIBER" AS MANUFACTURED BY GEORGIA-PACIFIC. B. SOFFIT: a. SAME MFG. AS SIDING AND TRIM. b. TRIPLE 4" SOFFIT, CENTER VENTED WHERE INDICATED ON DRAWINGS. NET FREE AIR SPACE: 1.95 SQ IN/SF C. FASCIA: a. SAME MFG. AS SIDING AND TRIM. b. 8" HIGH IN 12' LENGTHS D. FASTENERS a. ALUMINUM, 5056 OR 6110 ALLOY E. COLOR: a. SIDING: AS SELECTED BY ARCHITECT FROM MANUFACTURER'S FULL RANGE OF PREMIUM DARK COLORS. b. FASCIA AND SOFFIT: AS SELECTED BY ARCHITECT FROM MANUFACTURER'S FULL RANGE OF STANDARD COLORS F. WARRANTY: MANUFACTURER'S LIMITED LIFE-TIME.

SECTION 07 62 00 SHEET METAL FLASHING AND TRIM

- A. METAL: ZINC-COATED (GALVANIZED) STEEL: ASTM A 653, G90 COATING. a. GAUGE: b. FINISH: PU-OF 3-COAT SYSTEM (KYNAR 500). COLOR SELECTED BY ARCHITECT FROM MANUFACTURER'S FULL RANGE. c. FASTENERS: NON-CORROSIVE. CONCEALED.

SECTION 07 92 00 JOINT SEALANTS

- A. INTERIOR: MILDEW-RESISTANT SILICONE SEALANT. TYPE S, GRADE NS, CLASS 25, NT. VOC LIMIT LESS THAN 250g/L. B. EXTERIOR, NON-TRAFFIC: SINGLE COMPONENT, NON-SAG URETHANE. TYPE S, GRADE NS, CLASS 25, NT. C. EXTERIOR, TRAFFIC: SINGLE COMPONENT, NON-SAG URETHANE. TYPE S, GRADE NS, CLASS 25, T.

DIVISION 8 - DOOR AND WINDOWS

SECTION 08 11 13 HOLLOW METAL DOORS AND FRAMES

- A. FRAMES TO 16 GAUGE HOLLOW METAL. INTERIOR TO BE KNOCK-DOWN TYPE; EXTERIOR TO MITERED CORNER. B. METAL DOORS TO BE 1 3/4" FLUSH TYPE, 18 GAUGE FACE SHEETS, REINFORCED AND INSULATED CORES.

SECTION 08 70 00 - ARCHITECTURAL WOOD CASEWORK

- A. PLASTIC LAMINATE CABINETS: 1. 3/4" EXTERIOR A & B GRADE: HPV/A HP-1 HARDWOOD PLYWOOD. 2. HIGH PRESSURE DECORATIVE LAMINATE, NEMA LD 3. 3. CABINET HARDWARE - COMPLY WITH BHMA A156.9 a. FRAMELESS CONCEALED HINGES - BHMA A156.9, B01602, 170 DEG. OPENING b. BACK MOUNTED WIRE PULLS, 4" LONG X 5/16" DIA. c. ADJUSTABLE SHELF STANDARDS & SUPPORTS d. SHELF FRONTS BHMA A156.9, B04013 e. EXPOSED HARDWARE FINISHES: SATIN CHROMIUM 4. COMPLY W/ AWI SECTION 400 LAMINATE CABINETS, WIG SECTION 15, GRADE-CUSTOM 5. CABINET CONSTRUCTION a. FLUSH OVERLAY b. 1/2" REVEAL c. PLASTIC LAMINATE VENEER FOR EXPOSED SURFACES d. MATERIAL FOR SEMI EXPOSED SURFACES 1) OTHER THAN DRAWER BODIES: THERMOSET DECORATIVE OVERLAY 2) DRAWER SIDES & BACKS: THERMOSET DECORATIVE OVERLAY 3) DRAWER BOTTOMS: HARDWOOD PLYWOOD 6. COLORS & PATTERNS: AS SELECTED BY ARCHITECT FROM MFG'S STANDARDS.

- B. COUNTERTOPS 1. SOLID SURFACE 1/2" (12MM) THICK, WITH EASED EDGE AND 3 1/2 INCH BACK SPLASH. BASIS-OF-DESIGN: CORIAN BY DUPONT, TERRA SERIES. COLOR: 'MEDEA'. 2. PLASTIC LAMINATE QUALITY: AWI SECTION 400 REQUIREMENTS HIGH-PRESSURE DECORATIVE LAMINATE GRADE HGS CORE: MEDIUM-DENSITY PARTICLEBOARD MADE WITH EXTERIOR GLUE, NO ADDED UREA-FORMALDEHYDE 3. PHENOLIC RESIN COUNTERTOPS 1/2" (12MM) THICK, WITH EASED EDGE AND 3 1/2 INCH BACK SPLASH. BASIS-OF-DESIGN: CHEMTOPS, COLOR: 'STEEL GREY'

DIVISION 7 - THERMAL & MOISTURE PROTECTION

SECTION 07 10 00 - DAMPROOFING

- A. UNDER SLAB: 6 MIL POLYETHYLENE SHEET.

SECTION 07 21 00 - THERMAL INSULATION

- A. FIBERGLASS BATT INSULATION: ASTM C 665, TYPE I (UNFACED). B. MINERAL FIBER (ROCK WOOL) LOOSE FILL: ASTM C 754-02 C. MINERAL FIBER/ROCK WOOL FIBER BOARD INSULATION: ASTM C 612, COMPRESSIVE STRENGTH OF 720 PSF. WATER RESISTANT, SIMILAR TO "THERMAFIBER RAIN BARRIER 110" BY OWENS CORNING. D. POLYISOCYANURATE BOARD INSULATION a. ASTM C 1289, TYPE I (ALUM FOIL FACED), CLASS 1 OR 2 b. ASTM C 1289, TYPE II (GLASS FIBER/ORGANIC MAT), CLASS 1 c. ROOF, TOP LAYER: POLYISOCYANURATE, ASTM C 1289, TYPE V(OSB BASE), 7/16 INCH THICK OSB BONDED TO UPPER SURFACE. E. EXTRUDED POLYSTYRENE (XPS) BOARD INSULATION a. ASTM C 578, TYPE X (15PSF COMPRESSIVE STRENGTH, 1.30 LBS. PER CUBIC FEET) F. FOAM SEALANT: EXPANDABLE, CLOSED-CELL. G. R-VALUE: NOTED ON DRAWINGS.

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SECTION 07 31 13 - ASPHALT SHINGLES

- A. UNDERLAYMENT a. BASIS-OF-DESIGN "WEATHERLOCK" MAT SELF SEALING ICE & WATER BARRIER, AS MANUFACTURED BY OWENS-CORNING. b. INSTALL IN ACCORDANCE WITH MFG'S DIRECTIONS. B. DRIP EDGE: a. PREFINISHED, GALVANIZED METAL EDGE INSTALLED AT ROOF EDGES b. COLOR AS SELECTED BY OWNER FROM MFG'S STANDARD. C. SHINGLES a. STYLE, WEIGHT AND WARRANTY: AS SELECTED BY OWNER b. INSTALL SINGLES USING GALVANIZED ROOFING NAILS IN ACCORDANCE WITH MFG'S DIRECTIONS, DO NOT STAPLE. c. VALLEYS TO BE SHINGLED BY WOVEN METHOD.

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- A. BASIS-OF-DESIGN: "CALIBER" AS MANUFACTURED BY GEORGIA-PACIFIC. B. SOFFIT: a. SAME MFG. AS SIDING AND TRIM. b. TRIPLE 4" SOFFIT, CENTER VENTED WHERE INDICATED ON DRAWINGS. NET FREE AIR SPACE: 1.95 SQ IN/SF C. FASCIA: a. SAME MFG. AS SIDING AND TRIM. b. 8" HIGH IN 12' LENGTHS D. FASTENERS a. ALUMINUM, 5056 OR 6110 ALLOY E. COLOR: a. SIDING: AS SELECTED BY ARCHITECT FROM MANUFACTURER'S FULL RANGE OF PREMIUM DARK COLORS. b. FASCIA AND SOFFIT: AS SELECTED BY ARCHITECT FROM MANUFACTURER'S FULL RANGE OF STANDARD COLORS F. WARRANTY: MANUFACTURER'S LIMITED LIFE-TIME.

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- A. PLASTIC LAMINATE CABINETS: 1. 3/4" EXTERIOR A & B GRADE: HPV/A HP-1 HARDWOOD PLYWOOD. 2. HIGH PRESSURE DECORATIVE LAMINATE, NEMA LD 3. 3. CABINET HARDWARE - COMPLY WITH BHMA A156.9 a. FRAMELESS CONCEALED HINGES - BHMA A156.9, B01602, 170 DEG. OPENING b. BACK MOUNTED WIRE PULLS, 4" LONG X 5/16" DIA. c. ADJUSTABLE SHELF STANDARDS & SUPPORTS d. SHELF FRONTS BHMA A156.9, B04013 e. EXPOSED HARDWARE FINISHES: SATIN CHROMIUM 4. COMPLY W/ AWI SECTION 400 LAMINATE CABINETS, WIG SECTION 15, GRADE-CUSTOM 5. CABINET CONSTRUCTION a. FLUSH OVERLAY b. 1/2" REVEAL c. PLASTIC LAMINATE VENEER FOR EXPOSED SURFACES d. MATERIAL FOR SEMI EXPOSED SURFACES 1) OTHER THAN DRAWER BODIES: THERMOSET DECORATIVE OVERLAY 2) DRAWER SIDES & BACKS: THERMOSET DECORATIVE OVERLAY 3) DRAWER BOTTOMS: HARDWOOD PLYWOOD 6. COLORS & PATTERNS: AS SELECTED BY ARCHITECT FROM MFG'S STANDARDS.

SECTION 08 81 00 - GLASS GLAZING

- A. ANNEALED FLOAT GLASS, ASTM C 136, TYPE I (TRANSPARENT, FLAT), QUALITY g3, CLASS I. MINIMUM 90% LIGHT TRANSMISSION. B. HEAT-TREATED FLOAT GLASS (TEMPERED), ASTM C 1048, TYPE I, QUALITY g3. WHERE REQUIRED BY BUILDING CODE OR NOTED ON DRAWINGS. C. INSULATED: FACTORY ASSEMBLED, ASTM E 774 FROD CLASS CBA, DUAL SEAL, KIND HS AND FT WHERE REQUIRED BY THE IBC. 1" THICK WITH LOW-E COATING ON 2ND OR 3RD FACE. D. MIRRORS: 1/4" THICK FLOAT OR PLATE COMPLYING WITH FS 00-G-451, TYPE I, QUALITY Q2. SIZE AS APPROPRIATE FOR LOCATION AND USAGE.

SECTION 09 29 00 - GYPSUM BOARD

- A. GYPSUM WALL BOARD, ASTM C 36, REGULAR TYPE, 5/8" THICKNESS, UNO. INSTALLED & FINISHED ACCORDING TO MFG. INSTRUCTIONS. B. TYPES: 1. STANDARD: STANDARD TAPERED EDGE 2. FIRE-RESISTANT: TYPE "X", AT FIRE-RATED WALLS AND WHERE NOTED ON DRAWINGS. 3. MOISTURE RESISTANT: a. AT WET WALLS WITH PLUMBING FIXTURES b. PROVIDE METAL CORNER BEADS, J MOLDS, AND TRIM ACCESSORIES. D. SOUND ATTENUATION BATTS: ASTM C 865, TYPE I, BLANKETS WITHOUT MEMBRANE FACING, MADE WITH MINERAL FIBERS FROM GLASS, SLAG WOOL, OR ROCK WOOL COMBINED WITH THERMOSETTING RESINS. E. TAPE AND FINISH JOINTS IN ACCORDANCE WITH ARTICLE 10, ASTM C 840: FINISH LEVEL 4.

SECTION 09 51 00 - ACOUSTICAL CEILING

- A. SYSTEM A: 1. GRID: a. STANDARD: EXPOSED TEE, INTERMEDIATE DUTY, 15/16" WIDE, EQUAL TO PRELUDE XL BY ARMSTRONG. b. GRID, SEISMIC: ARMSTRONG SEISMIC RX, EXPOSED TEE, HEAVY DUTY, 5/16" WIDE, 7/8" WALL MOLDING, EQUAL TO PRELUDE XL BY ARMSTRONG. 2. TILE: 24" X 24" X 5/8" ARMSTRONG CORTEGA MINABOARD, NON-DIRECTIONAL PATTERN, REGULAR EDGE, NRC .55. MATCH EXISTING. NO ADDED UREA-FORMALDEHYDE.

SECTION 09 65 00 - RESILIENT TILE

- A. LUXURY VINYL COMPOSITION TILES (LVT): 1. MATERIAL: PROVIDED BY OWNER, INSTALLED BY CONTRACTOR. 2. INSTALLATION: I-SET SYSTEM WITH ADHESIVE AS RECOMMENDED BY MFG. 3. PATTERN: SEE FINISH PLAN. C. VINYL BASE: 1. MANUFACTURER: ARMSTRONG, JOHNSONITE OR APPROVED EQUAL. 2. COLOR AND PATTERN: AS SELECTED BY OWNER FROM MFG'S FULL PALETTE. 3. GROUP: 1 (SOLID) 4. STYLE: COVE WITH TOP-SET TOE; PREFORMED OUTSIDE CORNERS. 5. SIZE: 1/8" THICK X 4 INCHES HIGH; 10' MINIMUM LENGTHS. D. ADHESIVE: LOW-EMITTING, VOC < 50G/L

SECTION 09 91 13 - EXTERIOR PAINTING

- A. PREPARATION: EXISTING SURFACES TO BE THOROUGHLY CLEANED. REMOVE DIRT, GREASE, AND OTHER CONTAMINANTS TO PROVIDE SATISFACTORY SURFACE FOR NEW PAINT RETENTION. B. PAINT MATERIALS AS MANUFACTURERS BY ONE OF THE FOLLOWING: BENJAMIN-MOORE, ICI DELUX, PITTSBURG PAINTS, SHERWIN-WILLIAMS, OR APPROVED EQUAL. C. PAINT SCHEDULE: 1. STEEL DOORS AND FRAMES, MPI EXT 5.3B 1 COAT RUST INHIBITIVE PRIMER 2 COATS ALKDY, FINISH G5 SEMI-GLOSS

SECTION 09 91 23 - INTERIOR PAINTING

- A. PREPARATION: EXISTING SURFACES TO BE THOROUGHLY CLEANED. REMOVE DIRT, GREASE, AND OTHER CONTAMINANTS TO PROVIDE SATISFACTORY SURFACE FOR NEW PAINT RETENTION. B. PAINT MATERIALS AS MANUFACTURERS BY ONE OF THE FOLLOWING: BENJAMIN-MOORE, ICI DELUX, PITTSBURG PAINTS, SHERWIN-WILLIAMS, OR APPROVED EQUAL. C. VOC LIMITS: a. FLAT FINISH: LESS THAN 50g/L b. NON-FLAT FINISH: LESS THAN 150g/L. D. PAINT SCHEDULE: GALVANIZED METAL STEEL DOORS AND FRAMES: INT 5.3J (LATEX SEMI-GLOSS OVER WATER BASED PRIMER) 1 COAT RUST INHIBITIVE PRIMER 2 COATS LATEX, FINISH G5 SEMI-GLOSS

DIVISION 10 - SPECIALTIES

SECTION 10 14 00 - SIGNAGE

- A. BASIS-OF-DESIGN: MOHAWK 1000 ADA SYSTEM a. POLYCARBONATE FACE BONDED TO ACRYLIC MOUNTING PANEL b. TACTILE LETTERING, RAISED GRAPHICS INTEGRAL TO FACE c. 0.125" MATTE FINISH d. COLOR AND GRAPHICS TO BE DETERMINED BY ARCHITECT e. MOUNTING METHOD: VHB TAPE B. SIGNAGE SHALL COMPLY WITH THE REQUIREMENTS OF ANSI 117.1-2009 AND THE 2010 ADA-AG

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SECTION 10 26 00 - WALL AND DOOR PROTECTION

- A. CORNER GUARDS: a. SIZE: 0.060" THICK X 48" X 1" X 1". 90 DEGREE b. FINISH: SATIN, CLEAR ANODIZED ALUMINUM c. INSTALLATION: LOW VOC CONSTRUCTION ADHESIVE

SECTION 10 28 00 - TOILET ACCESSORIES

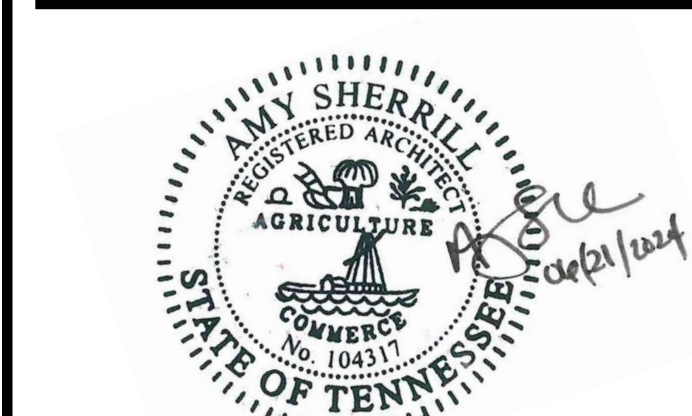
- A. TOILET ACCESSORIES: REUSE EXISTING.

DIVISION 11 - EQUIPMENT (NOT USED)

DIVISION 12 - FURNISHINGS (NOT USED)

SPECIFICATIONS

Table with 4 columns: Issue, Issued by, Drawn by, Date. Row 1: RFC, AS, SHJD, 06/21/2024





**HVAC SPECIFICATIONS**

- FURNISH ALL LABOR, MATERIALS AND EQUIPMENT REQUIRED TO INSTALL A COMPLETE HEATING AND COOLING SYSTEM AS INDICATED AND SPECIFIED ON THE DRAWINGS.
- WORK SHALL COMPLY WITH IMC, NFPA, ALL APPLICABLE LAWS, ORDINANCES & CODES OF THE STATE OF TENNESSEE, LOCAL AUTHORITIES HAVING JURISDICTION AND WITH APPLICABLE RULES & REGULATIONS.
- OBTAIN ALL PERMITS & INSPECTIONS REQUIRED FOR THE COMPLETION OF THE WORK & PAY ALL FEES & COSTS IN CONNECTION THEREWITH.
- THE MECHANICAL DRAWINGS ARE GENERALLY DIAGRAMMATIC AND UNLESS SPECIFICALLY DIMENSIONED, THE LOCATIONS OF DUCTWORK AND EQUIPMENT AND THE ROUTING OF DUCTWORK IS APPROXIMATE ONLY AND SHALL NOT BE SCALED FROM THE MECHANICAL DRAWINGS.
- INSTALL ALL EQUIPMENT IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.
- SUBMIT TO THE ARCHITECT FOR APPROVAL, 10 DAYS AFTER RECEIPT OF NOTICE TO PROCEED WITH THE WORK, A COMPLETE LIST OF MATERIALS, EQUIPMENT AND ACCESSORIES PROPOSED FOR USE, INCLUDING COMPLETE DESCRIPTIONS AND SPECIFICATIONS OF ANY PROPOSED SUBSTITUTIONS, MANUFACTURER'S SHOP DRAWINGS, ROUGHING-IN DRAWINGS, AND ANY OTHER INFORMATION REQUIRED FOR THE PROPER INSTALLATION OF THE WORK. SUBMITTALS SHALL BE IN PDF FORMAT (NO PAPER COPIES).
- ALL DUCTWORK SHALL BE GALVANIZED STEEL FABRICATED ACCORDING TO SMACNA DETAILS. DUCTS SHALL BE SIZE INDICATED ON DRAWINGS (NET INSIDE DIMENSIONS), RIGIDLY BRACED, ADEQUATELY SUPPORTED & SECURELY FASTENED IN PLACE.
- FLEXIBLE DUCT FOR INSULATED SYSTEMS SHALL BE THERMAFLEX M-KF, OR EQUAL, PRE-INSULATED DUCT WITH A MINIMUM R-VALUE OF 6.0. FLEXIBLE DUCT FOR NON-INSULATED DUCT SYSTEMS SHALL BE THERMAFLEX S-LD, OR EQUAL. ALL FLEXIBLE DUCT SHALL BE INSTALLED IN STRICT ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS. DUCT RUNS SHALL BE AS STRAIGHT AS POSSIBLE AND LIMITED TO MAXIMUM OF 5 FEET IN LENGTH.
- WHEN INSTALLED IN THE ATTIC, FLEXIBLE DUCT FOR INSULATED SYSTEMS SHALL BE THERMAFLEX M-KF, OR EQUAL, PRE-INSULATED DUCT WITH A MINIMUM R-VALUE OF 6.0. FLEXIBLE DUCT FOR NON-INSULATED DUCT SYSTEMS SHALL BE THERMAFLEX S-LD, OR EQUAL. ALL FLEXIBLE DUCT SHALL BE INSTALLED IN STRICT ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS. DUCT RUNS SHALL BE AS STRAIGHT AS POSSIBLE AND LIMITED TO MAXIMUM OF 5 FEET IN LENGTH.
- INSTALL SINGLE WALL TURNING VANES AT RIGHT ANGLES AND SMALL RADIUS TURNS IN DUCTS. MAKE REDUCTIONS IN DUCT SIZE WITH TAPERED TRANSITION PIECES. TRANSITIONS FOR CONNECTIONS TO EQUIPMENT SHALL BE DESIGNED TO SUIT CONDITIONS AND SO THAT AIR FLOW IS NOT RESTRICTED.
- IN ALL CASES, AIR VOLUMES SHALL BE ADJUSTED BY MEANS OF MANUAL DAMPERS IN THE DUCTWORK, NOT BY INTEGRAL DAMPERS IN THE TERMINAL OUTLETS OR INLETS. DUCT DAMPER POSITIONS SHALL BE MARKED WITH PERMANENT INK MARKERS OR BLACK SPRAY PAINT AFTER THE FINAL SETTING HAS BEEN MADE.
- INSULATE ALL SHEET METAL SUPPLY AIR DUCTWORK WITH 2.2" THICK OWENS-CORNING ASW DUCTWRAP. THOROUGHLY TAPE ALL JOINTS AND SEAMS.
- WHEN LOCATED IN THE ATTIC, INSULATE ALL RETURN AIR DUCTWORK WITH 3" THICK OWENS-CORNING ASW DUCTWRAP.
- LINE ALL DUCTWORK (IN ADDITION TO DUCTWRAP) WITH 1" THICK OWENS-CORNING FIBERGLASS DUCT LINER WHERE INDICATED ON THE DRAWINGS.
- ELECTRIC DUCT HEATERS SHALL BE THE OPEN COIL TYPE, U.L. LISTED, FURNISHED WITH MAGNETIC CONTRACTORS, BRANCH CIRCUIT FUSING, CONTROL TRANSFORMER, DOOR INTERLOCK DISCONNECT, THERMAL PROTECTION DEVICES, AIR FLOW SWITCH AND OVER TEMPERATURE CONTROL. THE HEATERS SHALL BE THE INSERT TYPE WITH A HINGED, BARS SHALL BE OF ALUMINIZED STEEL. ELEMENT WIRE OF 90% NICKEL AND 20% CHROMIUM SHALL BE STRUNG ON HEATER WITH A STRETCH RATIO OF NOT LESS THAN 2:1.
- EXHAUST FANS SHALL BE GREENHECK, LOREN COOK, PENNBARRY OR APPROVED SUBSTITUTE, AND BE AS SCHEDULED ON THE DRAWINGS AND HAVE THE ACCESSORIES AS NOTED ON THE DRAWINGS. FAN MOTORS SHALL HAVE BUILT-IN THERMAL OVERLOAD PROTECTION. THE UNITS SHALL BE FURNISHED WITH UNIT MOUNTED SAFETY DISCONNECT. THE UNITS SHALL BE U.L. LISTED AND BEAR THE AMCA CERTIFIED RATINGS SEAL FOR SOUND AND AIR PERFORMANCE. VERIFY VOLTAGE BEFORE ORDERING EQUIPMENT.
- THE MANUFACTURER'S AUTHORIZED AGENT OF EQUIPMENT INSTALLED ON THE JOB SHALL VERIFY THE REFRIGERATION PIPING SIZES, DETAILS AND ARRANGEMENTS FOR ADEQUACY. THE REFRIGERATION PIPING SHALL BE COPPER WITH HIGH TEMPERATURE SOLDER JOINTS.
- PER THE IECC, REFRIGERANT SUCTION PIPING LESS THAN 1" NOMINAL DIAMETER SHALL BE INSULATED WITH NO LESS THAN 0.75" THICK ARMSTRONG ARMAFLEX II INSULATION. THICKNESS OF ALL OTHER SUCTION PIPING INSULATION SHALL BE NO LESS THAN 1".
- PER THE IECC, FOR HEAT PUMPS, REFRIGERANT LIQUID PIPING LESS THAN 1.5" NOMINAL DIAMETER SHALL BE INSULATED WITH NO LESS THAN 1.0" THICK ARMSTRONG ARMAFLEX II INSULATION. INSULATION THICKNESS FOR ALL OTHER REFRIGERANT LIQUID PIPING FOR HEAT PUMPS SHALL BE NO LESS THAN 1.5".
- ALL REFRIGERANT LINE INSULATION LOCATED OUTSIDE OF THE BUILDING SHALL BE PAINTED WITH TWO COATS OF LATEX SEMI-GLOSS PAINT OR OTHER MEANS BE PROVIDED TO PROTECT INSULATION FROM ULTRAVIOLET DEGRADATION.
- WHEN THE INSTALLATION IS COMPLETE, IT SHALL BE RUN & ADJUSTED BY THE CONTRACTOR. ANY EXCESSIVE NOISE OR VIBRATION SHALL BE CORRECTED.
- SUBMIT WRITTEN AIR BALANCE REPORT TO THE ARCHITECT A MINIMUM OF 10 DAYS PRIOR TO THE FINAL INSPECTION. THE AIR BALANCE CONTRACTOR SHALL BE AABC OR NEBB CERTIFIED.
- THE CONTRACTOR SHALL INSTRUCT THE OWNER IN THE OPERATION OF EQUIPMENT & PROVIDE THE OWNER WITH A COMPLETE SET OF OPERATING INSTRUCTIONS FOR EQUIPMENT INSTALLED UNDER HIS CONTRACT.
- THE WORK SHALL BE GUARANTEED AGAINST ALL DEFECTIVE MATERIALS & EQUIPMENT FOR A PERIOD OF ONE YEAR AFTER ACCEPTANCE. THE CONTRACTOR SHALL MAKE ALL NECESSARY CORRECTIONS WITHOUT COST TO THE OWNER.

**GRILLES AND CEILING OUTLET SPECIFICATIONS**

- GRILLES AND CEILING OUTLETS SHALL BE PRICE OR EQUAL, STEEL CONSTRUCTION WITH ELECTRO-DEPOSITION PAINTED FINISH, SIZE SHOWN ON THE DRAWINGS AND SCHEDULED AS FOLLOWS.
- CD CEILING DIFFUSER, PRICE MODEL SMD-3P SQUARE NECK, LOUVERED FACE DIFFUSER, LAY-IN TYPE, 4-WAY BLOW WITH RECTANGULAR OPPOSED BLADE DAMPER. FURNISH WITH SQUARE-TO-ROUND ADAPTER WHERE ROUND DUCT IS INDICATED ON DRAWINGS.
  - VCD VARIABLE CEILING DIFFUSER, PRICE MODEL VPD-HC, AUTOMATIC CHANGE-OVER BETWEEN HEATING & COOLING BASED ON TEMPERATURE OF SUPPLY AIR.
  - CDS CEILING DIFFUSER, PRICE MODEL SCD-31, ROUND NECK, LOUVERED FACE DIFFUSER, 4 CONE, SURFACE MOUNTED TYPE, 4-WAY BLOW WITH DAMPER AND SPF PLASTER FRAME.
  - CR CEILING RETURN, PRICE MODEL 80D-TB EGG CRATE RETURN GRILLE, LAY-IN TYPE, 1/2" CUBES WITH OPPOSED BLADE DAMPER. FURNISH WITH SQUARE-TO-ROUND ADAPTER WHERE ROUND DUCT IS INDICATED ON DRAWINGS.

**DUCTLESS SPLIT HEAT PUMP UNIT SCHEDULE**

DUCTLESS SPLIT INDOOR UNIT (DSIU)						DUCTLESS SPLIT OUTDOOR UNIT (DSOU)						SEER/HSPF	ROOM	
MARK	TOTAL COOLING CAPACITY (MBH)	TOTAL HEATING CAPACITY (MBH)	HEATING CAPACITY @ -13°F DB (MBH)	UNIT TYPE	WEIGHT (LBS)	LG MODEL	MARK	MCA	MOCP	VOLTAGE /PHASE	WEIGHT (LBS)			LG MODEL
①	12.0	13.6	9.6	WALL MOUNTED	35	LAN120HYV3	①	11.2	15	208/1	105	LAU120HYV3	25.2/11.2	119 PHARMACY
②	9.0	11.0	8.0	WALL MOUNTED	35	LAN090HYV3	②	11.2	15	208/1	105	LAU090HYV3	27.0/13.5	123 LAB
③	9.0	11.0	8.0	WALL MOUNTED	35	LAN090HYV3	③	11.2	15	208/1	105	LAU090HYV3	27.0/13.5	129 SUPPLY

**NOTE:**

- VERIFY VOLTAGE W/ ELECTRICAL DRAWINGS BEFORE ORDERING EQUIPMENT
- TOTAL COOLING RATINGS FOR 95°DB & 75°WB AMBIENT; INDOOR 80°DB & 67°WB
- HEATING RATINGS FOR 47°DB & 43°WB AMBIENT; INDOOR 70°DB & 60°WB
- DSOU-1 & DSOU-2 SHALL BE FURNISHED & INSTALLED WITH INVERTER COMPRESSOR, VARIABLE SPEED CONDENSER FAN, CRANKCASE HEATER, WIND BAFFLES FOR LOW AMBIENT COOLING TO 0°, AND AUX RELAY FOR ASSOCIATED ELECTRIC CEILING HEATER.
- DSOU-3 SHALL BE FURNISHED & INSTALLED WITH INVERTER COMPRESSOR, VARIABLE SPEED CONDENSER FAN, CRANKCASE HEATER, AND HAIL GUARDS.
- THE INDOOR UNITS SHALL BE FURNISHED WITH CONDENSATE PUMP - EXTEND TO OUTSIDE OF BUILDING AND SPILL ON 6" ABOVE GRADE - VERIFY EXACT LOCATION WITH ARCHITECT.
- THE UNITS SHALL BE FURNISHED WITH 7-DAY PROGRAMMABLE THERMOSTAT W/ INTEGRAL HUMIDITY SENSOR AND CONTROL FOR "DRY MODE"

**NOTE:**  
EXISTING DUCTLESS SPLITS ARE LOCATED IN 119 PHARMACY & 123 LAB. NO INFORMATION ON THE EXISTING UNITS WAS PROVIDED. NEW UNITS ARE TO BE PROVIDED. DSOU-1/DSIU-1 & DSOU-2/DSIU-2, (SCHEDULED ABOVE). EXISTING UNITS MAY BE RE-USED IF EQUIVALENT SIZE AND OPTIONS. LOW AMBIENT COOLING HAS BEEN PROVIDED FOR THE DUCTLESS SPLITS SERVING THE LAB AND PHARMACY.

**ELECTRIC CEILING HEATER (ECH) SCHEDULE**

MARK	WATTS	VOLTS/ PHASE	MFR MODEL
①②	750	120/1	MARKEL SERIES 3380 CEILING HEATER

**NOTES:**

- VERIFY VOLTAGE BEFORE ORDERING EQUIPMENT
- ECH-1 SHALL BE CONTROLLED FROM AUXILIARY HEATER RELAY FROM DSIU-1
- EW-2 SHALL BE CONTROLLED FROM AUXILIARY HEATER RELAY FROM DSIU-2
- HEATER SHALL BE FURNISHED DISCONNECT SWITCH & OVERHEAT PROTECTION

**EXHAUST FAN (EF) SCHEDULE**

MARK	CFM	EXT. STATIC (INCHES W.G.)	WATTS	RPM	MAX SONES	WEIGHT (LBS)	VOLTS/ PHASE	TYPE	GREENHECK MODEL
①	70	0.35	13	621	0.5	20	115/1	INLINE	CSP-A250

**NOTES:**

- VERIFY VOLTAGE BEFORE ORDERING EQUIPMENT
- EXHAUST FANS SHALL BE FURNISHED WITH SPEED CONTROLLER, BACKDRAFT DAMPER, VIBRATION ISOLATORS, & WALL CAP WITH BIRDSCREEN.
- EF-1 SHALL BE IN CONTINUOUS OPERATION.

**WALL MOUNTED DE-HUMIDIFIER (DEH) SCHEDULE**

MARK	WATER REMOVAL (PPD)	AMPS	VOLTS/ PHASE	WEIGHT (LBS)	MANUFACTURER & MODEL
①②③	33 @ 80°F/60% RH	2.8	120/1	60	INNOVATIVE DEHUMIDIFIER IW25-5

**NOTES:**

- UNIT SHALL BE FURNISHED WITH WASHABLE MERV 8 FILTER, INTEGRAL HUMIDISTAT (ADJUSTABLE), & INTEGRAL CONDENSATE PUMP (24V; POWERED BY UNIT). PUMP CONDENSATE TO OUTSIDE OF THE BUILDING AND SPILL 6" ABOVE GRADE. VERIFY EXACT LOCATION WITH ARCHITECT.
- UNITS SHALL MAINTAIN 60% RH OR BELOW IN SPACES THEY SERVE.

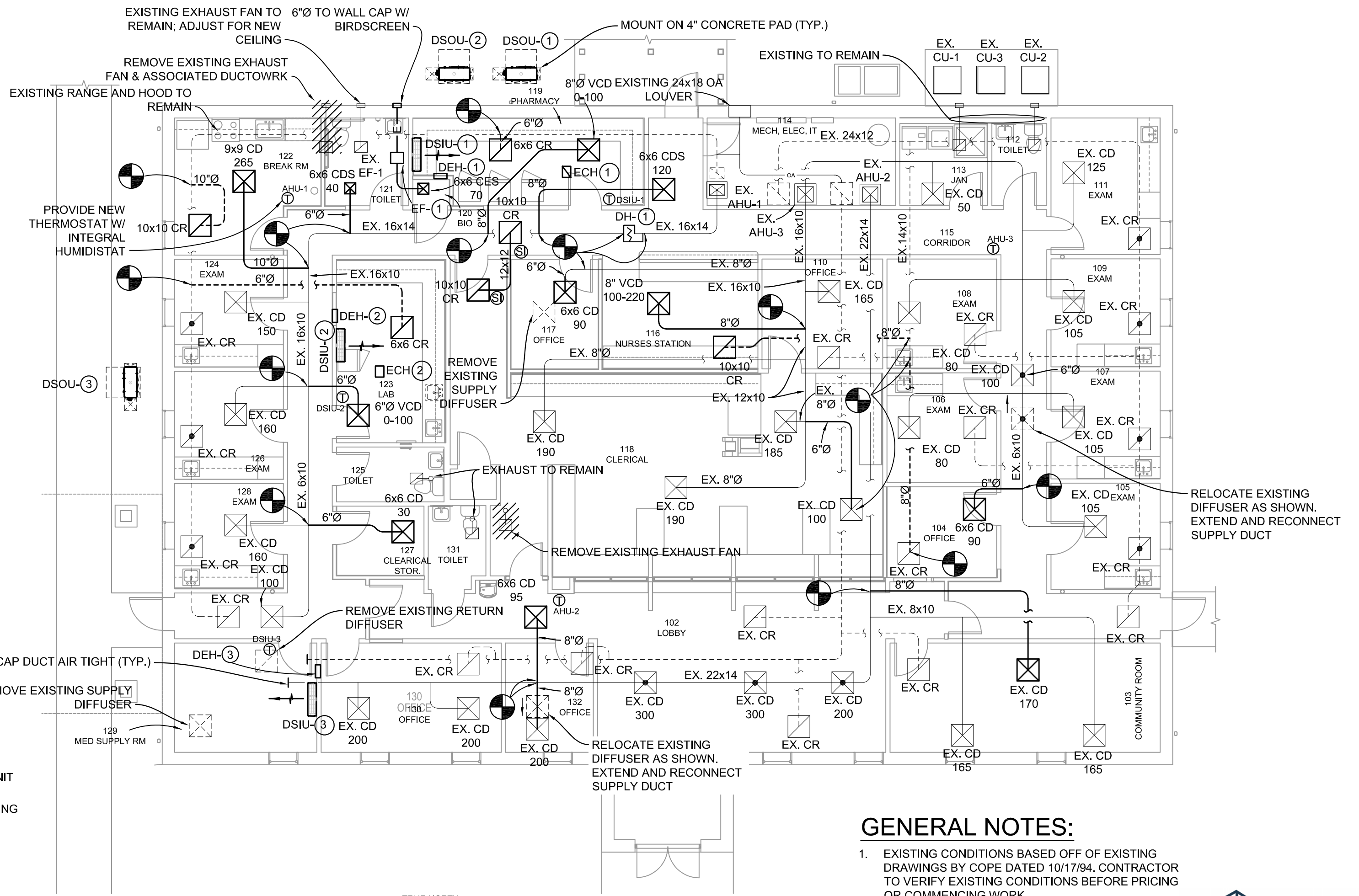
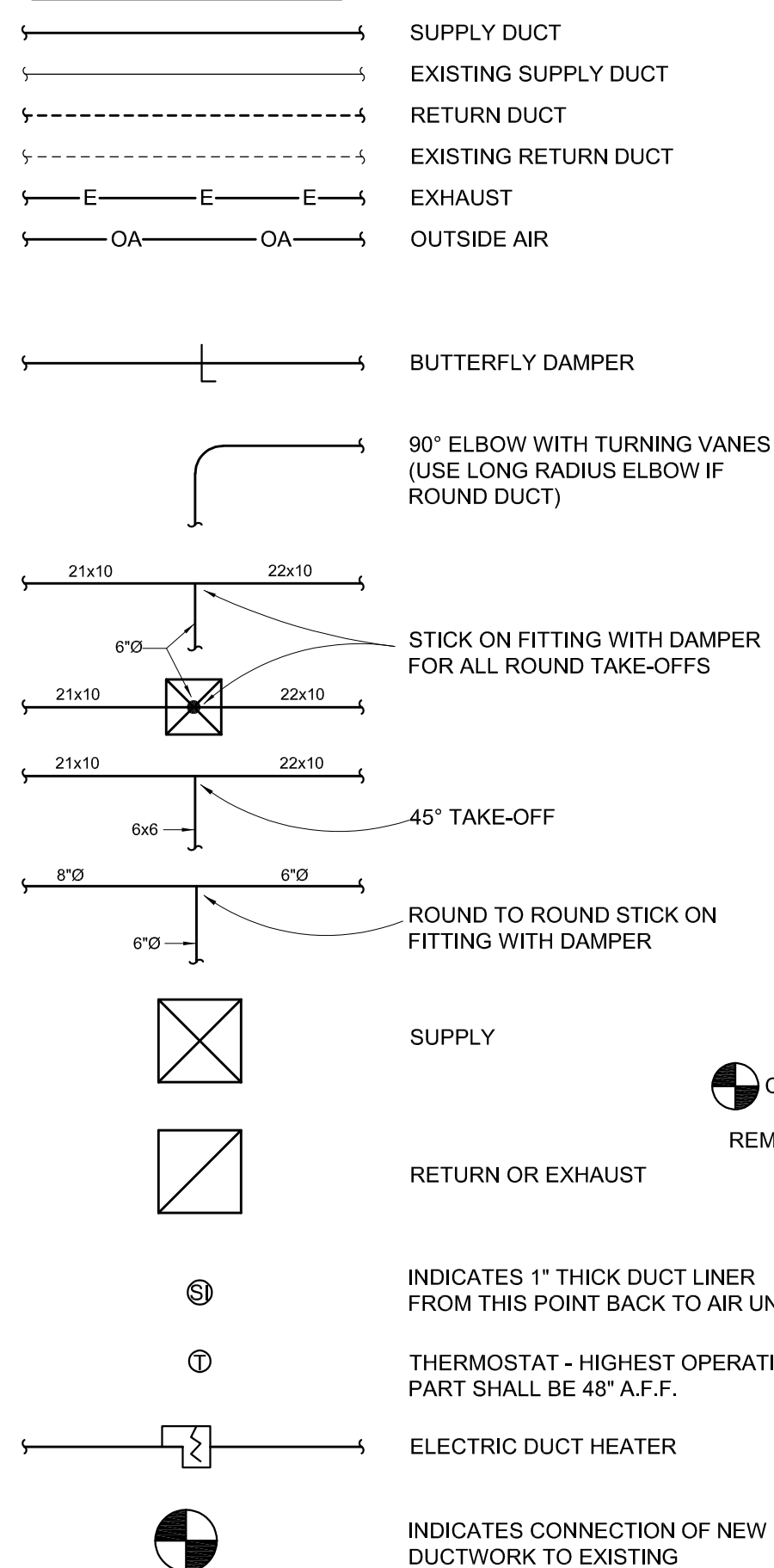
**DUCT HEATER (DH) SCHEDULE**

MARK	CFM	DUCT SIZE (WIDTH x HEIGHT)	WATTS	STEPS	VOLTS/ PHASE
①	1200	SEE FLOOR PLAN	5700	1	240/1

**NOTES:**

- VERIFY VOLTAGE BEFORE ORDERING EQUIPMENT
- PROVIDE NEW THERMOSTAT FOR AHU-1 WITH INTEGRAL HUMIDISTAT.
- DUCT HEATER SHALL BE ENERGIZED IN A RISE OF HUMIDITY OF 55% (ADJUSTABLE).

**DUCT LEGEND**



**FLOOR PLAN - HVAC**  
1/8"=1'-0"

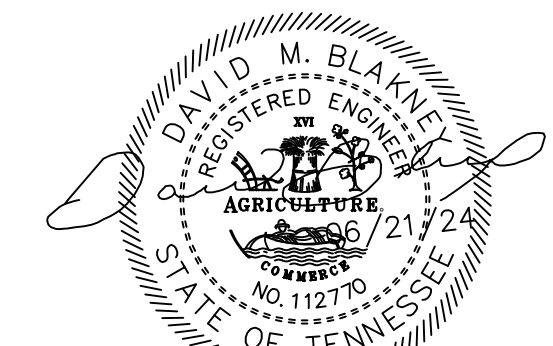
**GENERAL NOTES:**

- EXISTING CONDITIONS BASED OFF OF EXISTING DRAWINGS BY COPE DATED 10/17/94. CONTRACTOR TO VERIFY EXISTING CONDITIONS BEFORE PRICING OR COMMENCING WORK.
- BALANCE ALL EXISTING DIFFUSERS AS SHOWN.
- CONTRACTOR MAY RE-USE EXISTING DUCT AND DIFFUSERS IF EQUIVALENT SIZE.

**UNION COUNTY HEALTH DEPT. RENOVATIONS**  
4335 MAYNARDVILLE HWY,  
MAYNARDVILLE, TN 37807

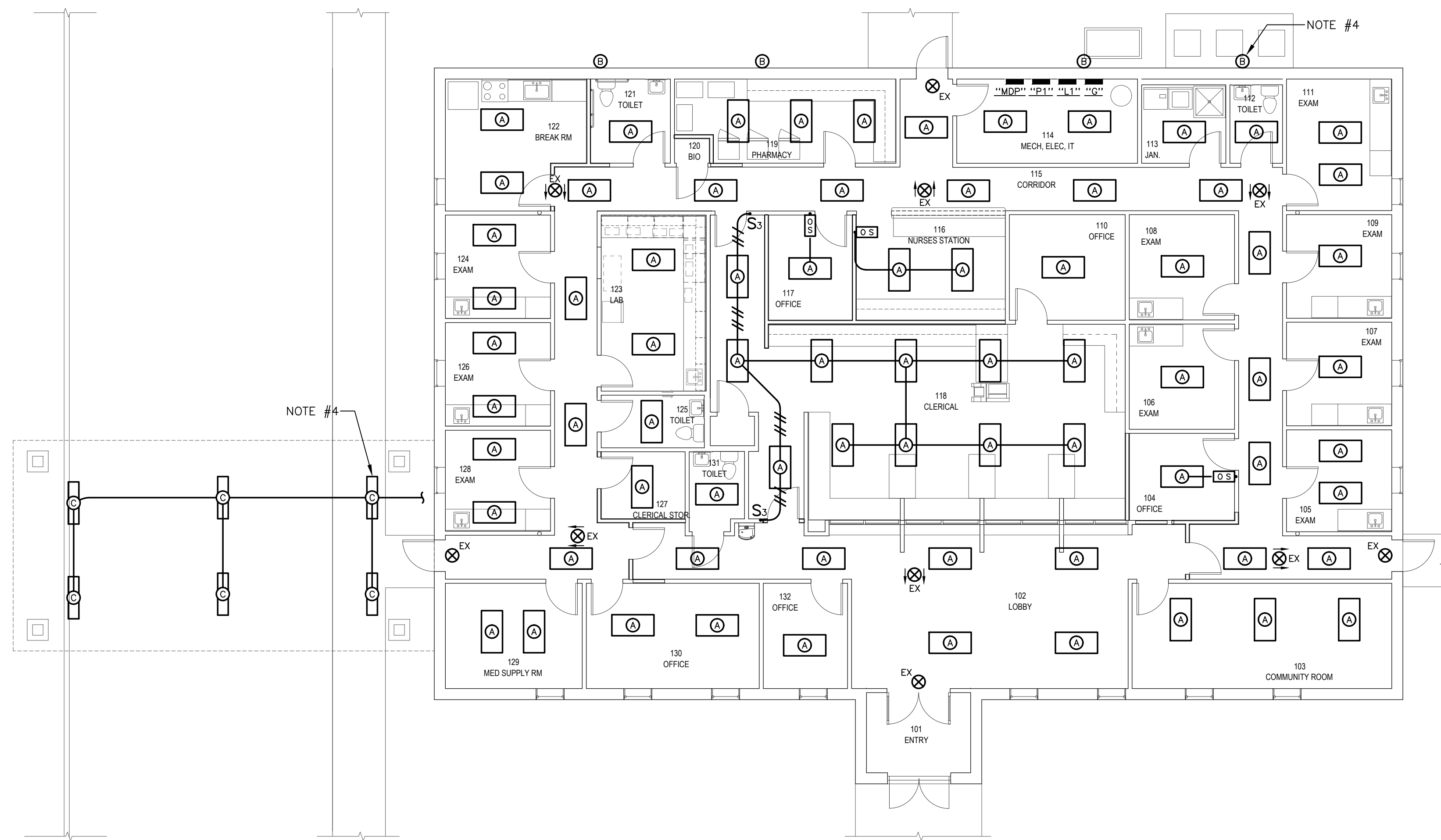
**FLOOR PLAN - HVAC**

Issue	Issued By	Drawn By	Date
FINAL REVIEW	DB	TH	06/11/2024
REC	DB	TH	06/21/2024



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**M-101**



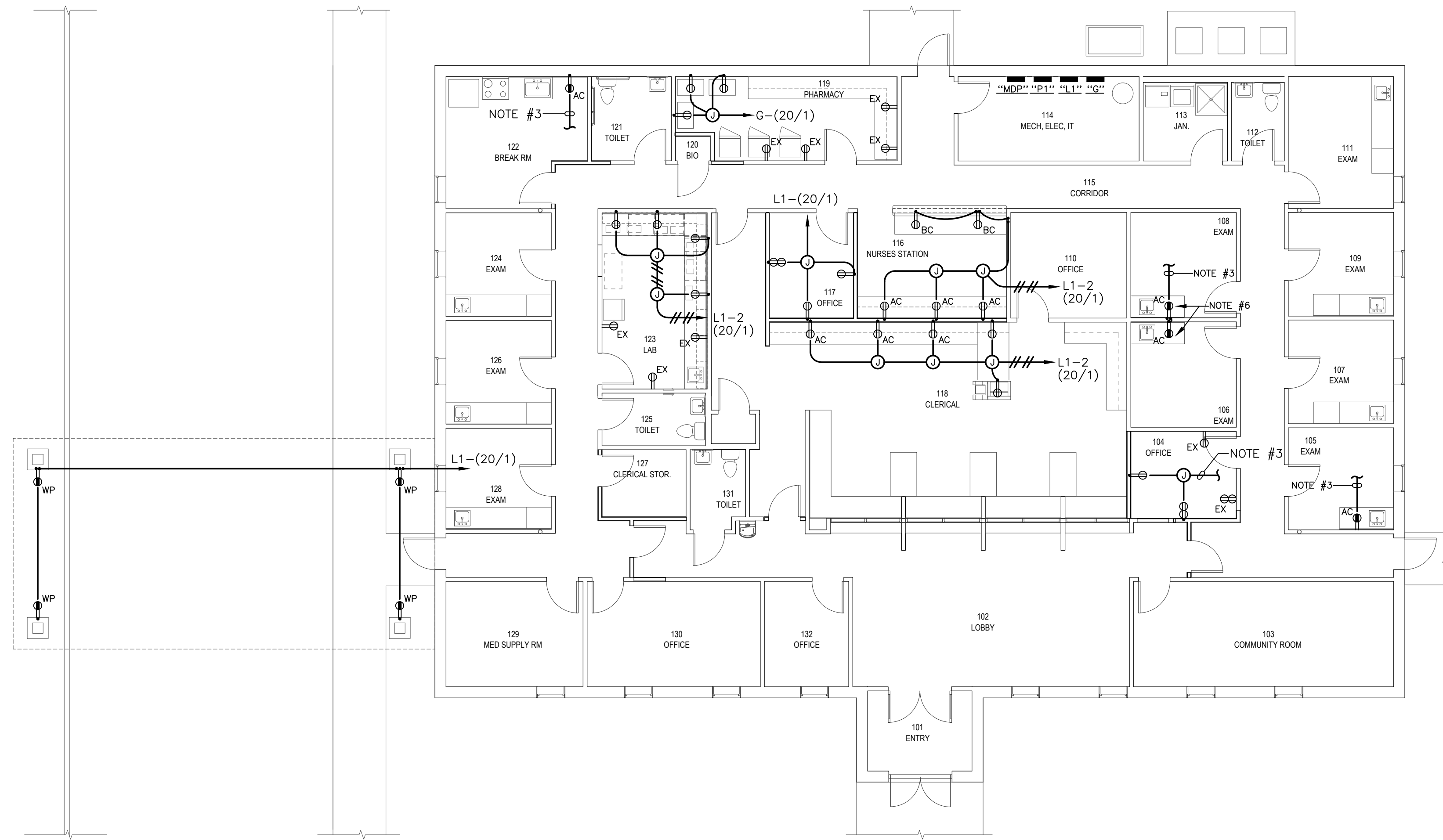
**FLOOR PLAN - LIGHTING**  
SCALE: 1/8" = 1'-0"

**LIGHTING NOTES:**

1. REFER TO ARCHITECTURAL REFLECTED CEILING PLAN FOR EXACT LOCATIONS OF ALL LIGHTING FIXTURES.
2. "EX" BY DEVICE INDICATES EXISTING TO REMAIN.
3. CONNECT NEW LIGHTING FIXTURES TO EXISTING LIGHTING CIRCUITS. MAINTAIN EXISTING LIGHTING CONTROLS/SWITCHING UNLESS INDICATED OTHERWISE ON DRAWINGS.
4. CONNECT NEW WALL PACKS AND CANOPY LIGHTS TO EXISTING EXTERIOR LIGHTING CIRCUIT TO BE CONTROLLED BY EXISTING PHOTOCELL.

**ELECTRICAL DEMOLITION NOTE:**

1. ELECTRICAL SUBCONTRACTOR SHALL REMOVE ALL LIGHTING FIXTURES IN RENOVATION AREA WHERE NEW LIGHTING FIXTURES ARE SHOWN ON NEW WORK DRAWINGS. LIGHTING FIXTURES THAT ARE REMOVED SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE PROPERLY REMOVED FROM THE SITE. REMOVE ALL DEVICES, WIRING, CONDUIT, BOXES, ETC., FROM WALLS BEING REMOVED. ABANDONED CONDUITS TURNING UP THROUGH FLOOR SLAB SHALL HAVE CONDUCTORS REMOVED AND SHALL BE CUT AND PATCHED IN ACCORDANCE WITH DEMOLITION REQUIREMENTS SET FORTH IN CONTRACT DOCUMENTS. ABANDONED BOXES IN WALLS TO REMAIN SHALL HAVE CONDUCTORS REMOVED WITH COVERPLATES INSTALLED OVER ALL ABANDONED BOXES.



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

**POWER NOTES:**

1. "AC" BY DEVICE INDICATES DEVICE TO BE MOUNTED ABOVE COUNTER SUCH THAT BOTTOM OF BOX IS 2" ABOVE COUNTER OR COUNTER BACKSPASH, AS APPLICABLE. REFER TO ARCHITECTURAL INTERIOR ELEVATIONS FOR COUNTER DETAILS.
2. "BC" BY DEVICE INDICATES DEVICE TO BE MOUNTED BELOW COUNTER AT STANDARD HEIGHT (+18" AFF). COORDINATE EXACT ROUGH-IN LOCATION WITH G.C. SUCH THAT OUTLET BOX IS LOCATED IN "KNEE SPACE", CLEAR OF ALL DRAWERS, CABINETS, COUNTER SUPPORTS, ETC.
3. CONNECT TO EXISTING RECEPTACLE CIRCUIT SERVING SPACE.
4. "EX" BY DEVICE INDICATES EXISTING TO REMAIN.
5. FURNISH AND INSTALL NEW 120V, 20A CIRCUIT BREAKERS IN EXISTING SQUARE D PANELBOARDS AS REQUIRED TO SERVE NEW LOADS.
6. NEW OUTLETS INDICATED SHALL BE INCLUDED AS PART OF ADD ALTERNATE 1.

**UNION COUNTY HEALTH DEPARTMENT**  
4335 MAYNARDVILLE HWY,  
MAYNARDVILLE, TN 37807

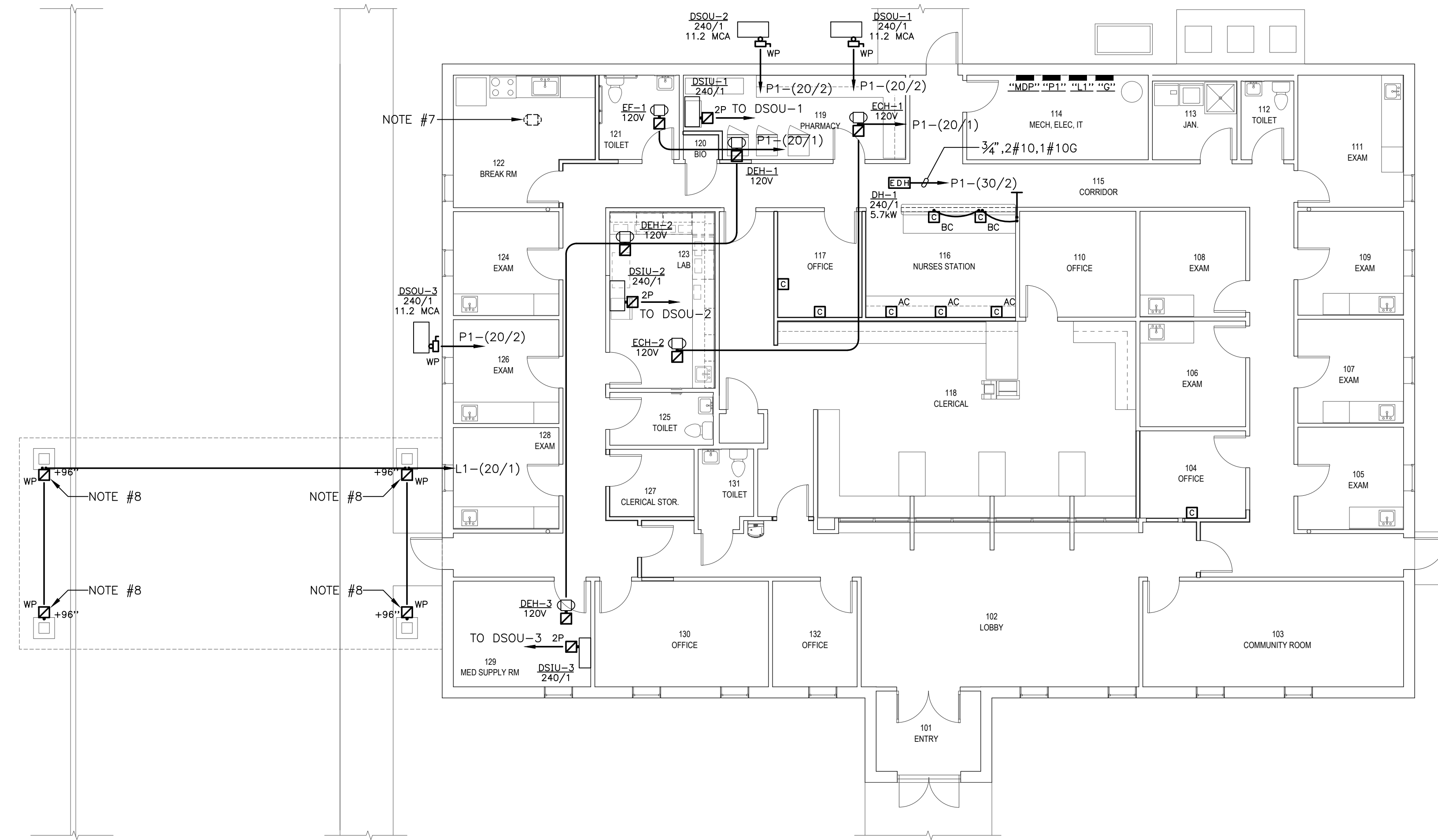
**FLOOR PLAN - LIGHTING AND POWER**

Issue	Issued by	Drawn by	Date
RFI	VEI	VEI	08/21/2024

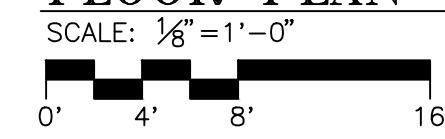


**Vreeland Engineers Inc.**  
3107 Sutherland Ave.  
P.O. Box 10648  
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vreeleandengineers.com

Union County Health Department - Floor Plan - Lighting & Power.dwg  
M.R.M. 08/11/24 9:09 AM ALZ4157(AL)



**FLOOR PLAN - COMMUNICATIONS & HVAC WIRING**



- COMMUNICATIONS/HVAC WIRING NOTES:**
1. PRIOR TO BEGINNING CONDUIT INSTALLATION FOR HVAC/PLUMBING EQUIPMENT ELECTRICAL CONTRACTOR SHALL CONFIRM WITH MECHANICAL/PLUMBING CONTRACTOR THE VOLTAGES FOR ALL HVAC/PLUMBING EQUIPMENT REQUIRING ELECTRICAL SERVICE. ELECTRICAL CONTRACTOR SHALL CALL ANY DISCREPANCIES BETWEEN ELECTRICAL DRAWINGS AND VOLTAGE INFORMATION PROVIDED BY MECHANICAL/PLUMBING CONTRACTOR TO THE ATTENTION OF ENGINEER PRIOR TO PROCEEDING WITH WORK.
  2. CONFIRM EXACT ROUGH-IN LOCATIONS FOR ALL HVAC/PLUMBING EQUIPMENT WITH MECHANICAL/PLUMBING CONTRACTOR PRIOR TO INSTALLATION OF CONDUIT.
  3. FURNISH AND INSTALL NEW 240V CIRCUIT BREAKERS IN EXISTING SQUARE D PANELBOARD "P1" TO SERVE NEW HVAC EQUIPMENT AS REQUIRED.
  4. FURNISH AND INSTALL NEW 120V, 20A CIRCUIT BREAKERS IN EXISTING SQUARE D PANELBOARD "L1" TO SERVE NEW HVAC EQUIPMENT AS REQUIRED.
  5. "AC" BY DEVICE INDICATES DEVICE TO BE MOUNTED ABOVE COUNTER SUCH THAT BOTTOM OF BOX IS 2" ABOVE COUNTER OR COUNTER BACKSPASH, AS APPLICABLE. REFER TO ARCHITECTURAL INTERIOR ELEVATIONS FOR COUNTER DETAILS.
  6. "BC" BY DEVICE INDICATES DEVICE TO BE MOUNTED BELOW COUNTER AT STANDARD HEIGHT (+18" AFF). COORDINATE EXACT ROUGH-IN LOCATION WITH G.C. SUCH THAT OUTLET BOX IS LOCATED IN "KNEE SPACE", CLEAR OF ALL DRAWERS, CABINETS, COUNTER SUPPORTS, ETC.
  7. DISCONNECT POWER TO EXISTING EXHAUST FAN ABOVE BREAK ROOM. REMOVE WIRING BACK TO SOURCE.
  8. CONNECT WALL MOUNTED FAN, 120V. VERIFY MOUNTING HEIGHT PRIOR TO ROUGH-IN.


Union County Health Department - Floor Plan - Communications.dwg  
M.R.M. 06/11/24 9:15 AM ALZ4157(AL)

**UNION COUNTY  
HEALTH  
DEPARTMENT  
4335 MAYNARDVILLE HWY,  
MAYNARDVILLE, TN 37807**

**FLOOR PLAN -  
COMMUNICATIONS**

Issue	Issued by	Drawn by	Date
RFI	VEI	VEI	06/21/2024



**Vreeland Engineers Inc.**  

 3107 Sutherland Ave.  
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**ELECTRICAL SPECIFICATIONS**

- SCOPE: FURNISH PLANT, LABOR, MATERIAL, SERVICES, AND EQUIPMENT NECESSARY FOR AND REASONABLY INCIDENTAL TO THE INSTALLATION OF ELECTRICAL FACILITIES SHOWN ON THE DRAWINGS AND CALLED FOR HEREINAFTER.
- CODES AND PERMITS: SECURE NECESSARY PERMITS, PAY NECESSARY FEES, CONFORM TO ALL APPLICABLE LOCAL, STATE, AND NATIONAL CODES.
- POWER SERVICE: POWER SERVICE FOR THE RENOVATION AREA SHALL BE TAKEN FROM EXISTING BUILDING POWER DISTRIBUTION SYSTEM AS INDICATED ON DRAWINGS.
- WIRING METHODS: ALL NEW LINE VOLTAGE POWER WIRING REQUIRED ON THIS PROJECT SHALL BE INSTALLED IN CONDUIT, UTILIZE ELECTRIC-METALLIC TUBING (EMT) FOR ALL OVERHEAD WIRING INSIDE THE BUILDING IN DRY LOCATIONS IN ACCORDANCE WITH NATIONAL ELECTRICAL CODE REQUIREMENTS. WHERE CONDUIT IS INSTALLED EXPOSED WHERE SUBJECT TO PHYSICAL DAMAGE, UTILIZE GALVANIZED RIGID STEEL OR INTERMEDIATE METAL CONDUIT. ALL NEW WIRING SHALL BE INSTALLED CONCEALED TO THE MAXIMUM EXTENT PRACTICABLE. OBTAIN APPROVAL FROM ARCHITECT FOR ANY REQUIRED EXPOSED CONDUIT RUNS. EXPOSED CONDUIT WILL BE PERMISSIBLE IN MECHANICAL ROOMS, ELECTRICAL ROOMS, JANITOR CLOSETS, ETC. CONDUIT INSTALLATION SHALL BE DONE IN A NEAT AND WORKMANLIKE MANNER, PARALLEL OR PERPENDICULAR TO BUILDING STRUCTURAL ELEMENTS. ALL CONDUCTORS ON THE PROJECT SHALL BE COPPER WITH "THHN/THWN" INSULATION, RATED 600-VOLTS, AC. COLOR CODE CONDUCTORS IN ACCORDANCE WITH NATIONAL ELECTRICAL CODE REQUIREMENTS.
- WORK AT EXISTING PANELBOARDS: CERTAIN POWER FOR THE RENOVATION AREA SHALL BE TAKEN FROM EXISTING PANELBOARDS AS NOTED ON DRAWINGS. CONFIRM MAKE AND MODEL AND MOUNTING PROVISIONS OF REQUIRED NEW CIRCUIT BREAKERS TO BE INSTALLED IN EXISTING PANELBOARDS PRIOR TO BID. AIC RATINGS OF NEW CIRCUIT BREAKERS SHALL MATCH EXISTING CIRCUIT BREAKERS IN RESPECTIVE PANELS. PROVIDE UPDATED CIRCUIT DIRECTORIES IN EACH EXISTING PANELBOARD AFFECTED BY RENOVATION WORK. HANDWRITTEN IDENTIFICATION OF CHANGES SHALL NOT BE PERMISSIBLE.
- WIRING DEVICES: FURNISH AND INSTALL NEW WALL SWITCHES, DUPLEX RECEPTACLES, OCCUPANCY SENSORS, ETC., WHERE INDICATED ON DRAWINGS. DEVICE AND COVERPLATE TYPE/COLOR SHALL MATCH EXISTING DEVICES IN THE BUILDING. ALL NEW DEVICES SHALL BE TAMPER RESISTANT TYPE WITH MINIMUM RATING OF 20-AMPERES FOR THE VOLTAGE SERVICE APPLIED, UNLESS NOT REQUIRED BY CODE, IN WHICH CASE SPECIFICATION GRADE DEVICES SHALL BE UTILIZED. THE USE OF 15-AMPERE RATED DEVICES SHALL NOT BE PERMISSIBLE. DEVICES CONNECTED TO BUILDING EMERGENCY POWER SYSTEM SHALL BE RED.
- LIGHTING FIXTURES AND LIGHTING CONTROLS: FURNISH AND INSTALL NEW LIGHTING FIXTURES AS INDICATED ON DRAWINGS. REFER TO LIGHTING FIXTURE SCHEDULE FOR ADDITIONAL INFORMATION. ALL NEW LIGHTING FIXTURES SHALL BE LED.
- COMMUNICATIONS ROUGH-IN: PROVIDE A SYSTEM OF CONDUIT, BOXES, FOR OWNER'S NETWORK WIRING AS INDICATED ON DRAWINGS AND AS SET FORTH HEREINAFTER. TYPICAL TELEPHONE/DATA/TV BOX SHALL CONSIST OF A 4-11/16" SQUARE BOX WITH 1" CONDUIT STUBBED OUT TO POINT ABOVE ACCESSIBLE LAY-IN CEILING AND TERMINATED WITH BUSHING. ALL NETWORK WIRING, FACEPLATES, MODULAR JACKS, ETC. WILL BE FURNISHED AND INSTALLED BY OWNER'S LOW VOLTAGE WIRING VENDOR.
- DEMOLITION AND EXISTING CONDITIONS: CONDUITS FEEDING ABANDONED EQUIPMENT FROM UNDER SLAB SHALL BE CUT OFF BELOW SLAB AND ABANDONED. HOLE IN SLAB SHALL BE PATCHED. CONDUITS FEEDING ABANDONED EQUIPMENT FROM OVERHEAD SHALL BE DISCONNECTED AND REMOVED BACK TO SOURCE. ALL CEILINGS DAMAGED DUE TO REMOVAL OF CONDUIT SHALL BE REPLACED OR REPAIRED TO MATCH EXISTING CONDITIONS. EXISTING CIRCUIT BREAKERS FEEDING DEVICES THAT ARE REMOVED SHALL BE REUSED TO SERVE NEW LOADS IN THIS PROJECT AS NOTED ON DRAWINGS. CIRCUIT BREAKERS WHICH ARE NOT REUSED SHALL BE LABELED AS "SPARE" IN EXISTING PANELBOARD. REMOVE EXISTING LIGHTING FIXTURES, LIGHTING CONTROLS, ETC., IN RENOVATION AREA AS NOTED ON DRAWINGS. SEE NOTES ON DRAWINGS FOR ELECTRICAL DEMOLITION REQUIREMENTS.
- SUBMITTAL: PROVIDE ELECTRICAL SUBMITTALS FOR REVIEW BY ARCHITECT/ENGINEER. SUBMITTALS SHALL BE PREPARED IN ELECTRONIC FORMAT AND SHALL BE HIGHLIGHTED TO CLEARLY IDENTIFY PRODUCTS PROPOSED FOR USE ON THIS PROJECT. SUBMITTALS SHALL INCLUDE LIGHTING FIXTURES, OCCUPANCY SENSORS, EXIT SIGNS, EMERGENCY LIGHTING, WIRING DEVICES, PANELBOARDS, AND, SAFETY SWITCHES.
- POWER OUTAGES: POWER OUTAGES NECESSARY FOR COMPLETION OF CONTRACT WORK SHALL BE SCHEDULED WELL IN ADVANCE WITH OWNER AND SHALL BE KEPT TO ABSOLUTE MINIMUM TIME NECESSARY TO COMPLETE CONTRACT WORK.
- GUARANTY: GUARANTEE ALL WORK TO BE FREE FROM DEFECTS IN MATERIAL AND WORKMANSHIP FOR A PERIOD OF ONE YEAR AFTER DATE OF FINAL ACCEPTANCE OF JOB.

MAINS: 600A VOLTAGE/PHASE: 120/240V, 1Ø, 3W MOUNTING: SURFACE  
 SHORT CKT. CAPACITY: 22,000A ENTRY: -  
 FEEDER SIZE: - FED FROM: UTILITY BUS: COPPER

CKT. NO.	SERVES	LOAD (kVA)		BREAKER		BREAKER		LOAD (kVA)		SERVES	CKT. NO.
		#A	#B	TRIP POLE	POLE TRIP	#A	#B				
1	EXISTING HVAC			80	2	2	100			EXISTING GENERATOR	2
3											4
5	EXISTING HVAC			110	2	2	110			EXISTING HVAC	6
7											8
9	SPACE ONLY			20	1	1	20			SPACE ONLY	10
11	SPACE ONLY			20	1	1	20			SPACE ONLY	12
13	SPACE ONLY			20	1	1	20			SPACE ONLY	14
15	SPACE ONLY			20	1	1	20			SPACE ONLY	16
17	SPACE ONLY			20	1	1	20			SPACE ONLY	18
19	SPACE ONLY			20	1	1	20			SPACE ONLY	20
21	SPACE ONLY			20	1	1	20			SPACE ONLY	22
23	SPACE ONLY			20	1	1	20			SPACE ONLY	24
25	SPACE ONLY			20	1	1	20			SPACE ONLY	26
27	EXISTING PANEL P1			225	2	2				SPACE ONLY	28
29										SPACE ONLY	30
SUB TOTAL CONNECTED										SUB TOTAL CONNECTED	

NOTES:  
 1. EXISTING SQUARE D PANEL TO REMAIN.

MAINS: 225A VOLTAGE/PHASE: 120/240V, 1Ø, 3W MOUNTING: SURFACE  
 MAIN BREAKER: NO SHORT CKT. CAPACITY: 22,000A ENTRY: -  
 FEEDER SIZE: EXISTING FED FROM: MDP BUS: COPPER

CKT. NO.	SERVES	LOAD (kVA)		BREAKER		BREAKER		LOAD (kVA)		SERVES	CKT. NO.
		#A	#B	TRIP POLE	POLE TRIP	#A	#B				
1	EXISTING WATER HEATER			30	2	1	25			EXISTING LOAD	2
3										EXISTING LOAD	4
5	EXISTING HVAC			40	2	1	20			EXISTING LOAD	6
7										EXISTING LOAD	8
9	EXISTING HVAC			60	2	2	30			EXISTING DRYER	10
11											12
13	EXISTING HVAC			60	2	2	50			EXISTING RANGE	14
15											16
17	DSOU-1			20	2	1	20			EXISTING LOAD	18
19										EXISTING GENERATOR	20
21	DSOU-2			20	2	1					22
23										ECH-1, ECH-2	24
25	DSOU-3			20	2	2	30			DH-1	26
27											28
29	SPACE ONLY			20	1	1	20			DEH-1, DEH-2, DEH, EF-1	30
SUB TOTAL CONNECTED										SUB TOTAL CONNECTED	

NOTES:  
 1. EXISTING SQUARE D NOOD PANEL TO REMAIN. FURNISH AND INSTALL NEW CIRCUIT BREAKERS AS REQUIRED TO SERVE NEW LOADS.

MAINS: 225A VOLTAGE/PHASE: 120/240V, 1Ø, 3W MOUNTING: SURFACE  
 MAIN BREAKER: NO SHORT CKT. CAPACITY: 22,000A ENTRY: -  
 FEEDER SIZE: EXISTING FED FROM: MDP/GENERATOR BUS: COPPER

CKT. NO.	SERVES	LOAD (kVA)		BREAKER		BREAKER		LOAD (kVA)		SERVES	CKT. NO.
		#A	#B	TRIP POLE	POLE TRIP	#A	#B				
1	EXISTING LOAD			20	1	1	20			EXISTING LOAD	2
3	EXISTING LOAD			20	1	1	20			EXISTING LOAD	4
5	EXISTING LOAD			20	1	1	20			EXISTING LOAD	6
7	EXISTING LOAD			20	1	1	20			EXISTING LOAD	8
9	EXISTING LOAD			20	1	1	20			EXISTING LOAD	10
11	EXISTING LOAD			20	1	1	20			EXISTING LOAD	12
13	EXISTING LOAD			20	1	1	20			EXISTING LOAD	14
15	EXISTING LOAD			20	1	1	25			EXISTING LOAD	16
17	EXISTING LOAD			20	1	1	20			EXISTING LOAD	18
19	EXISTING LOAD			20	1	1	20			EXISTING LOAD	20
21	EXISTING LOAD			20	1	1	20			EXISTING LOAD	22
23	EXISTING LOAD			20	1	1	20			EXISTING LOAD	24
25	EXISTING LOAD			20	1	1	20			EXISTING LOAD	26
27	NEW LOAD			20	1	1	20			NEW LOAD	28
29	NEW LOAD			20	1	1	20			NEW LOAD	30
SUB TOTAL CONNECTED										SUB TOTAL CONNECTED	

NOTES:  
 1. EXISTING SQUARE D NOOD PANEL TO REMAIN. FURNISH AND INSTALL NEW CIRCUIT BREAKERS AS REQUIRED TO SERVE NEW LOADS.

MAINS: 50A VOLTAGE/PHASE: 120/240V, 1Ø, 3W MOUNTING: SURFACE  
 MAIN BREAKER: NO SHORT CKT. CAPACITY: - ENTRY: -  
 FEEDER SIZE: EXISTING FED FROM: P1 BUS: COPPER

CKT. NO.	SERVES	LOAD (kVA)		BREAKER		BREAKER		LOAD (kVA)		SERVES	CKT. NO.
		#A	#B	TRIP POLE	POLE TRIP	#A	#B				
1	EXISTING GEN. BATTERY			20	2	1	20			EXISTING LOAD	2
3										EXISTING LOAD	4
5	EXISTING LOAD			20	1	1	15			EXISTING LOAD	6
7	EXISTING LOAD			15	1	1	15			EXISTING LOAD	8
9	EXISTING LOAD			15	1	1	15			EXISTING LOAD	10
11	NEW LOAD			20	1	1	20			SPACE ONLY	12
SUB TOTAL CONNECTED										SUB TOTAL CONNECTED	

NOTES:  
 1. EXISTING OUTLER HAMMER EMERGENCY PANEL TO REMAIN. FURNISH AND INSTALL NEW CIRCUIT BREAKERS AS REQUIRED TO SERVE NEW LOADS.

**LEGEND**

SYMBOL DESCRIPTION

LED LIGHTING FIXTURE; "A" REFERS TO DESIGNATION IN THE LIGHTING FIXTURE SCHEDULE; "B" REFERS TO SWITCH CONTROL AND "3" REFERS TO CIRCUIT NUMBER. ASTERISK (\*) INDICATES LUMINAIRE TO BE EQUIPPED WITH BATTERY PACK FOR EGRESS LIGHTING.

LED LIGHTING FIXTURE; "B" REFERS TO DESIGNATION IN THE LIGHTING FIXTURE SCHEDULE; "Q" REFERS TO SWITCH CONTROL; AND "2" REFERS TO CIRCUIT NUMBER.

WALL SWITCH; SINGLE POLE UNLESS NOTED 3- OR 4-WAY; "PP" INDICATES EQUIPPED WITH PILOT LIGHT TO INDICATE WHEN SWITCH IS ON; W.P. INDICATES WEATHERPROOF; "K" INDICATES KEY OPERATED SWITCH; "+48" ABOVE FLOOR EXCEPT IN MASONRY WALLS WHERE HEIGHT SHALL BE ADJUSTED TO HAVE BOX EDGE OCCUR AT A MASONRY JOINT. PROVIDE NEUTRAL CONDUCTOR IN ADDITION TO LINE AND SWITCHED CONDUCTORS.

OCCUPANCY/VACANCY SENSOR FOR LIGHTING CONTROL, CEILING OR WALL MOUNTED AS INDICATED ON PLANS. MOUNT WALL-MOUNTED SENSOR AT SAME HEIGHT AS WALL SWITCH (+48" ABOVE FINISHED FLOOR). "D" BY SENSOR ON PLANS INDICATES DUAL RELAY TYPE SENSOR ALLOWING INDEPENDENT CONTROL OF TWO SEPARATE LIGHTING LOADS. PROVIDE NEUTRAL CONDUCTOR IN ADDITION TO LINE AND SWITCHED CONDUCTORS.

EXIT SIGN, "W" INDICATES WALL MOUNTING, "C" INDICATES CEILING MOUNTING, "S" INDICATES SINGLE FACE, "D" INDICATES DOUBLE FACE, "P" INDICATES PENDANT MOUNTED. PROVIDE DIRECTIONAL ARROWS ON EXIT SIGNS AS INDICATED ON PLANS. "WG" BY DEVICE INDICATES WIRE GUARD TO BE PROVIDED. UNIT EQUIPPED WITH BATTERY BACK-UP. CONNECT TO UNSWITCHED, "HOT", LIGHTING CIRCUIT.

DUPLEX PLUG RECEPTACLE; 120-VOLTS; 20-AMPERES; MOUNT 3" ABOVE BACKSPASH AT WORK COUNTERS AND LAVATORIES AND +18" AFF ELSEWHERE UNLESS NOTED TO A DIFFERENT HEIGHT. TAMPER RESISTANT, UNLESS NOT REQUIRED BY CODE.

QUADRUPLEX PLUG RECEPTACLE, 120-VOLTS, 20-AMPERES. MOUNT 3" ABOVE BACKSPASH AT WORK COUNTERS/LAVATORIES AND +18" AFF ELSEWHERE UNLESS NOTED TO A DIFFERENT HEIGHT. TAMPER RESISTANT, UNLESS NOT REQUIRED BY CODE.

DUPLEX PLUG RECEPTACLE, 120-VOLTS, 20-AMPERES. SHADED CENTER INDICATES EQUIPPED WITH BUILT-IN GROUND FAULT CIRCUIT INTERRUPTER. MOUNT 3" ABOVE BACKSPASH AT WORK COUNTERS/LAVATORIES AND +18" AFF ELSEWHERE UNLESS NOTED TO A DIFFERENT HEIGHT. PROVIDE WEATHER RESISTANT DEVICE AND WEATHERPROOF "EXTRA DUTY WHILE IN USE" COVER WHERE LOCATED OUTDOORS. TAMPER RESISTANT, UNLESS NOT REQUIRED BY CODE.

PANELBOARD, RECESSED OR SURFACE MOUNTED AS INDICATED ON DRAWINGS, TOP 6"-FEET ABOVE FINISHED FLOOR ADJUSTED TO OCCUR AT A MASONRY JOINT, SEE PANELBOARD SCHEDULE FOR EQUIPMENT CONTAINED.

CONDUIT IN THE WALL OR CEILING CONSTRUCTION SHOWN TURNING DOWN.

JUNCTION BOX, SIZE AND USE AS REQUIRED; COVERPLATE SHALL OVERLAP THE BOX EDGE BY 1/2" WHERE RECESSED IN WALL WITH CONCEALED WIRING.

ELECTRIC MOTOR REQUIRING CONNECTION, SIZE, USE, AND LOCATION AS INDICATED ON PLANS, VERIFY LOCATION AND CONNECTIONS REQUIRED WITH MECHANICAL TRADE PRIOR TO ROUGH-IN; USE CONFECTIONS CONDUIT WITHIN 18" OF EQUIPMENT.

MANUAL MOTOR STARTER TO CONTROL MOTOR INDICATED, SAME MOUNTING HEIGHT AS WALL SWITCH WHERE STARTER IS WALL MOUNTED. "2P" BY STARTER INDICATES TWO POLE STARTER TO BE PROVIDED FOR 208-VOLT, SINGLE-PHASE EQUIPMENT.

FUSED DISCONNECT SWITCH, HEAVY DUTY "HP" RATED, PROVIDE NEMA 3R ENCLOSURE OUTDOORS.

HOMERUN CIRCUIT WIRING TO EXISTING PANELBOARD, NOTATION "3(20/1)" INDICATES HOMERUN WIRING TO BE CONNECTED TO THREE 20/1 CIRCUIT BREAKERS IN EXISTING PANELBOARD. CROSS LINES INDICATES THE NUMBER OF #12 AWG PHASE AND NEUTRAL CONDUCTORS WHERE MORE THAN TWO. SINGLE CIRCUIT BRANCH CIRCUIT WIRING RUNS SHOWN WITHOUT CROSS LINES SHALL BE PROVIDED WITH 2#12, 1#12G. EACH 20 AMPERE BRANCH CIRCUIT SHALL BE PROVIDED WITH SEPARATE NEUTRAL CONDUCTOR. SHARING OF NEUTRAL CONDUCTORS SHALL NOT BE PERMITTED. PROVIDE EQUIPMENT GROUNDING CONDUCTOR IN EACH CONDUIT RUN.

DATA/VOICE OUTLET, PROVIDE 4 11/16" SQUARE BOX WITH SINGLE-GANG DEVICE RING AND BLANK COVERPLATE. EXTEND EMPTY 1" CONDUIT FROM OUTLET BOX TO POINT ABOVE ACCESSIBLE LAY-IN CEILING AND TERMINATE WITH BUSHING. LOCATE OUTLET BOX 3" ABOVE BACKSPASH AT WORK COUNTERS AND +18" AFF ELSEWHERE UNLESS NOTED TO A DIFFERENT HEIGHT ON DRAWINGS. "W" BY DEVICE INDICATES DEVICE TO BE DEDICATED FOR WIRELESS ACCESS POINT USE.

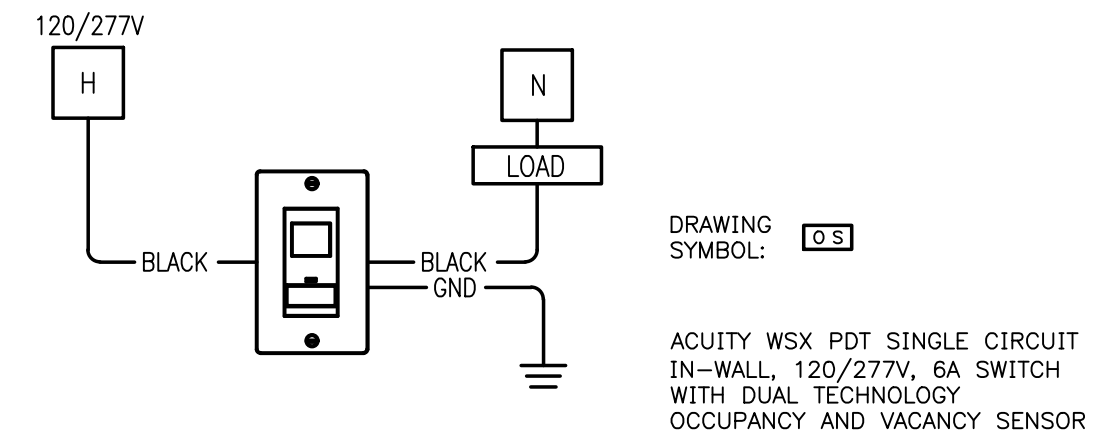
ELECTRIC DUCT HEATER, VOLTAGE AND KW AS INDICATED ON DRAWINGS. PROVIDE DISCONNECT SWITCH AND CONNECT.

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**LIGHTING FIXTURE SCHEDULE**

DESIGNATION	ILLUMINATION				MOUNTING		DESCRIPTION: SHIELDING, TYPE MATERIALS, FINISH, MOUNTING	MANUFACTURER'S PRODUCT ITEM		* EQUAL PRODUCT PERMITTED		REMARKS
	WATTS	DELIVERED LUMENS	COLOR TEMPERATURE (°K)	MINIMUM CRI	RECESSED	HEIGHT ABOVE FINISHED FLOOR OR GRADE		COMPANY	CATALOG NO.	YES	NO	
A	25	3200	3000	80			LED 2'x4' FLAT PANEL	LITHONIA	CPX2X43000LM 80CRI 30K SWL MVOLT			
B	23	3200	3500	80		+8"	LED WALL PACK	LITHONIA	WDGE2 LED P3 35K 80CRI VW MVOLT SRM			
C	46	5800	4000	80			LED CANOPY LIGHT	LITHONIA	DSXSC LED 20C 700 40K TSM MVOLT SRM DWHXD			

\* UNLESS NOTED, EQUAL PRODUCT TO THAT SPECIFIED WILL BE ACCEPTED. THE DESIGN PROFESSIONAL SHALL HAVE SOLE JUDGEMENT CONCERNING EQUIVALENCY OF SUBSTITUTION.



**TYPICAL IN-WALL SENSOR LIGHTING CONTROL DETAIL**  
 N.T.S.

**LIGHTING CONTROL NARRATIVE:**

FIXTURES ARE TURNED ON MANUALLY BY WALL SWITCH AND TURNED OFF AUTOMATICALLY WHEN ROOM BECOMES VACANT.

**UNION COUNTY HEALTH DEPARTMENT**  
 4335 MAYNARDVILLE HWY,  
 MAYNARDVILLE, TN 37807

**LEGEND AND SCHEDULES**

Issue	Issued by	Drawn by	Date
REF	VEI	VEI	06/21/2024



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