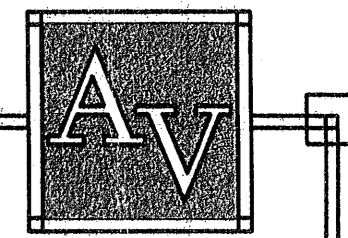




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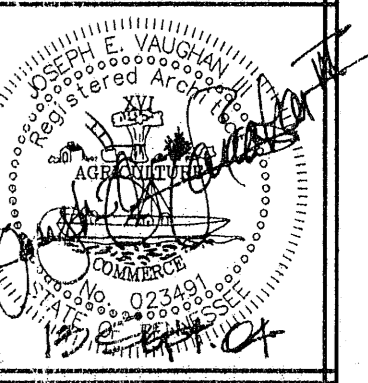
6482 Poplar Avenue Branch



**ANDERSON
VAUGHAN
ARCHITECTS,
INC.**

620 OLD HICKORY BLVD.
SUITE 301
JACKSON, TENNESSEE 38305
(731) 664-6180
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Codes Information

APPLICABLE CODES MEMPHIS, SHELBY COUNTY, TN

1999	STANDARD FIRE PREVENTION CODE
1999	STANDARD BUILDING CODE (SBC)
1997	STANDARD MECHANICAL CODE (SMC)
1999	STANDARD GAS CODE (SGC)
1997	STANDARD PLUMBING CODE (SPC)
1999	NATIONAL ELECTRIC CODE (NEC)
1998	ICC/ANSI HANDICAP ACCESSIBILITY CODE, IN CONJUNCTION WITH CHAPTER 11 OF THE '99 SBC

PROJECT DESCRIPTION

PROJECT CONSISTS OF THE CONVERSION OF AN EXISTING, VACATED STRUCTURE, ORIGINALLY DESIGNED AS A RESTAURANT, TO A FULL SERVICE BANKING FACILITY. RENOVATIONS INCLUDE FACADE RE-WORK AND ADDITION OF A COVERED DRIVE-THRU CANOPY.

BUILDING DESIGN CRITERIA

OCCUPANCY CLASSIFICATION	BUSINESS
TYPE CONSTRUCTION	TYPE IV (NON-COMBUSTIBLE MAT.), UN-PROTECTED, UNSPRINKLERED

	PROJECT	CODE
BUILDING AREA / FLOOR	4,994 SF	17,000 S.F. MAX. (ONE STORY ONLY)
OCCUPANCY LOAD / FLR:	50 PERSONS	AREA PER OCCUPANT: 100 S.F. GROSS
BUILDING HEIGHT:	17'-10"	55'-0" MAX.
NUMBER OF STORIES:	1 STORY	2 STORIES MAX.

ZONING

DISTRICT: O-G / C-P
 ----- CROWN CENTER PLANNED DEVELOPMENT

CONSULTANTS:

ARCHITECTURAL

ANDERSON VAUGHAN ARCHITECTS, INC.
 620 OLD HICKORY BLVD., SUITE 301
 JACKSON, TN 38305
 PHONE: (731) 664-6180

STRUCTURAL:

SCALLION ENGINEERING
 620 OLD HICKORY BLVD., STE. 207
 JACKSON, TN 38305
 PHONE: (731) 664-6106

LANDSCAPING:

KERSEY / WIKE ASSOCIATES, INC.
 5050 POPLAR AVENUE, SUITE 1002
 MEMPHIS, TN, 38157
 PHONE: (901) 685-8696

MECHANICAL/PLUMBING:

COLLIER ENGINEERING
 412 WILLIAMS STREET
 SOUTH FULTON, TN 38257
 PHONE: (731) 479-2115

ELECTRICAL:

HALL ENGINEERING, LLC
 1A STREET, STE. 100
 JACKSON, TN 38301
 PHONE: (731) 424-5300

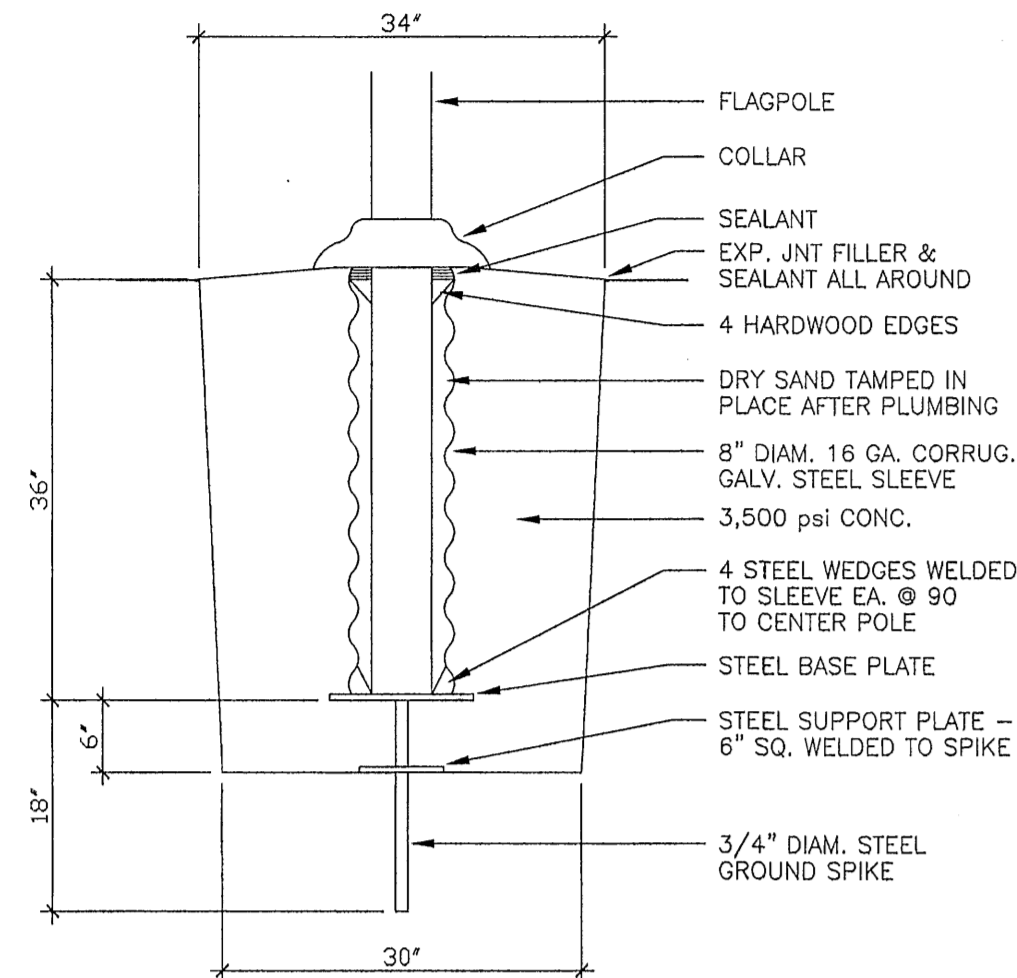
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LANDSCAPE:					
L1 LANDSCAPE PLAN					
I.1 IRRIGATION PLAN					
CIVIL:					
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D2.0 DEMOLITION - FLOOR PLAN	09-13-04				
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A1.2 ROOF PLAN	09-13-04				
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A4.3 FLOOR PATTERN	09-13-04				
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A5.2 TELLERS DETAILS	09-13-04				
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DIEBOLD 2 ALARM / VIDEO RISER	09-13-04				
DIEBOLD 3 ALARM / VIDEO DETAILS	09-13-04				
DIEBOLD 4 (5) SIDED MODULAR VAULT	09-13-04				
DIEBOLD 5 VAT 21 W/ 2 WAY CCTV	09-13-04				
DIEBOLD 6 UNDERCOUNTER EQUIPMENT	09-13-04				
DIEBOLD 7 163-60 AHD W/ 271-70 (DRIVE UP)	09-13-04				
DIEBOLD 8 OPTIVA 740 ADVANCED FUNCTION	09-13-04				

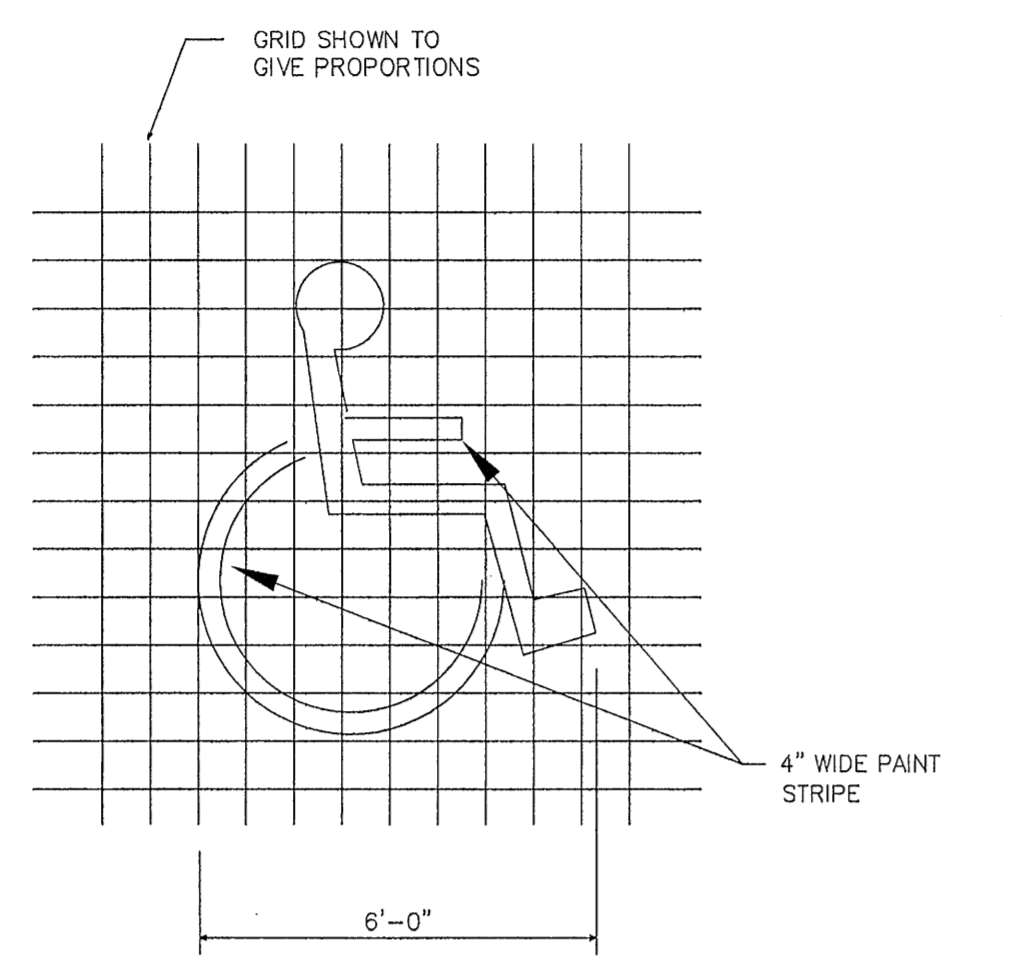
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CVR

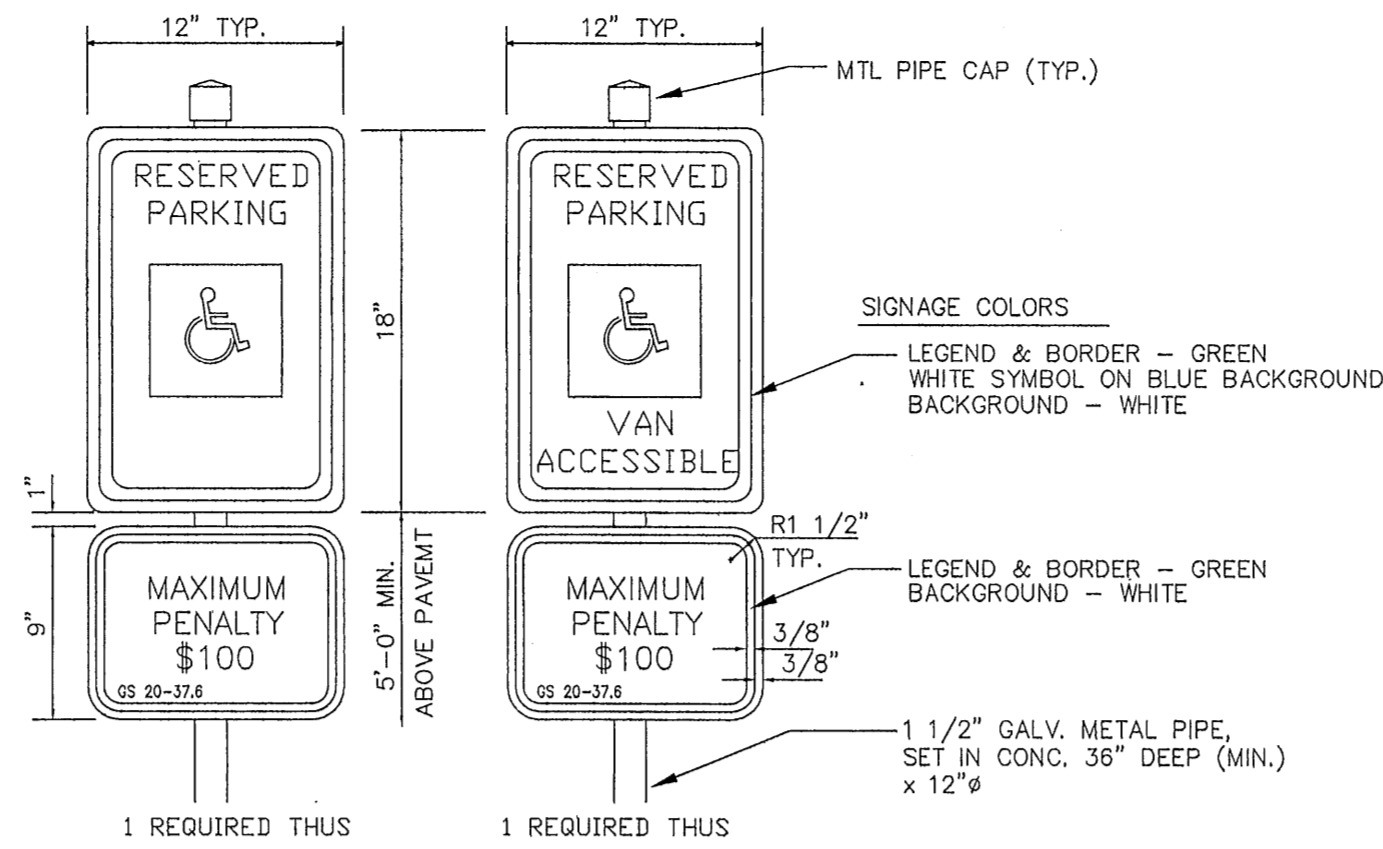
NOTE:
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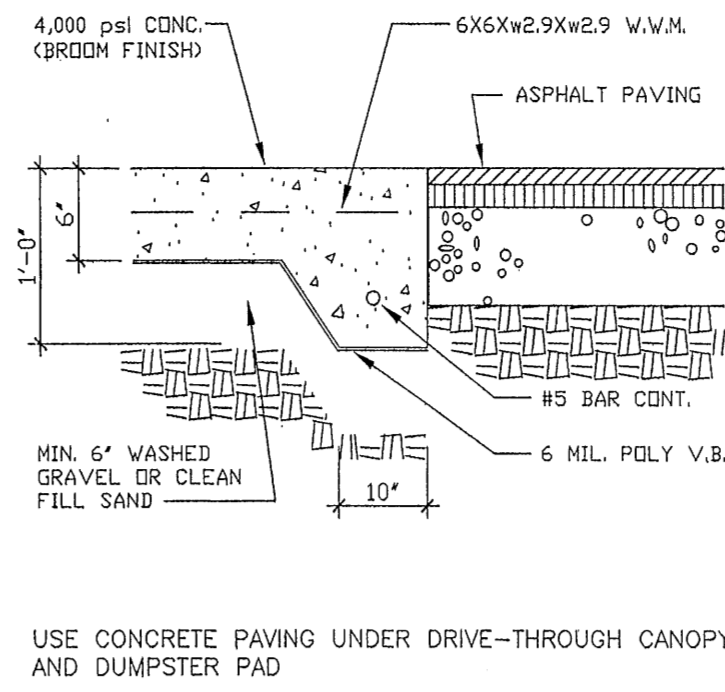
13 FLAGPOLE FOUNDATION
NO SCALE



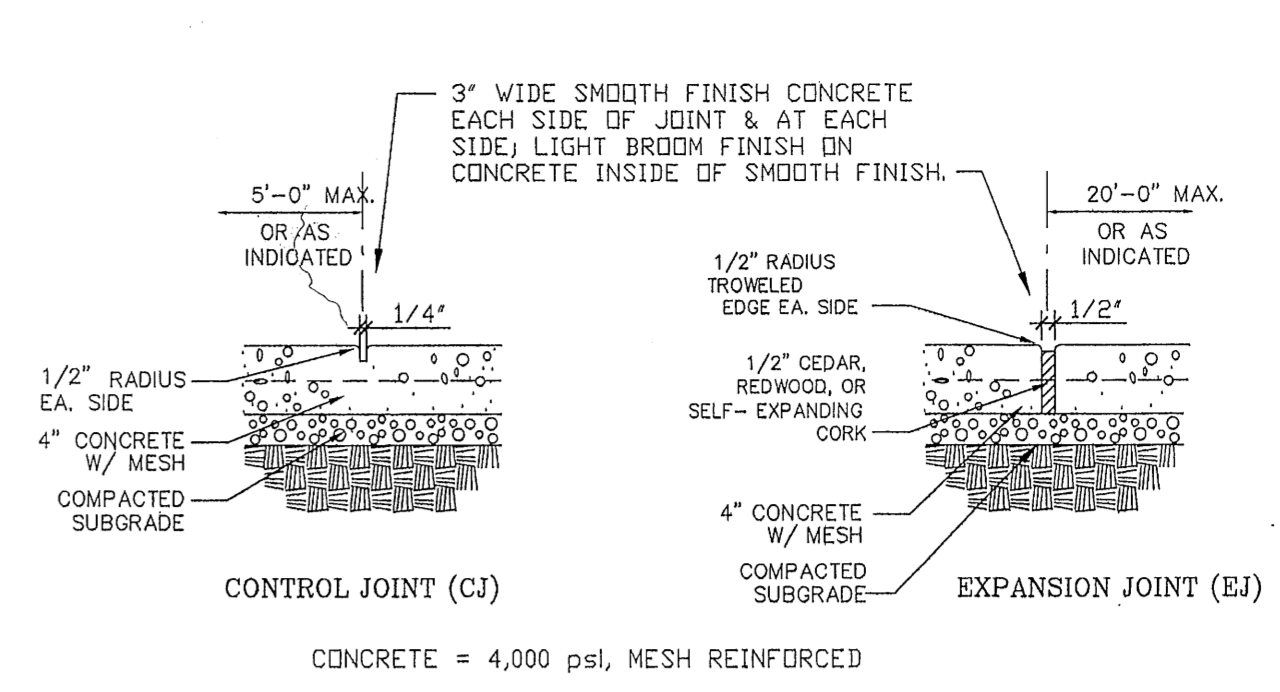
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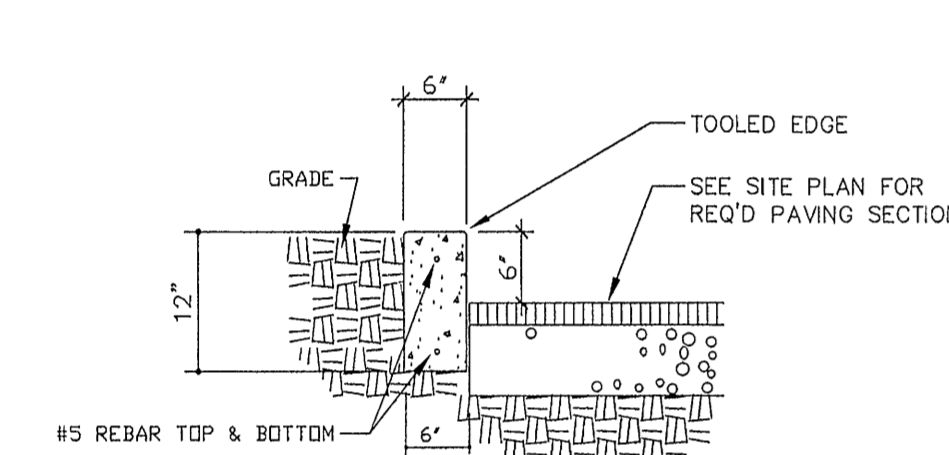
9 HC PARKING SIGNAGE
NO SCALE



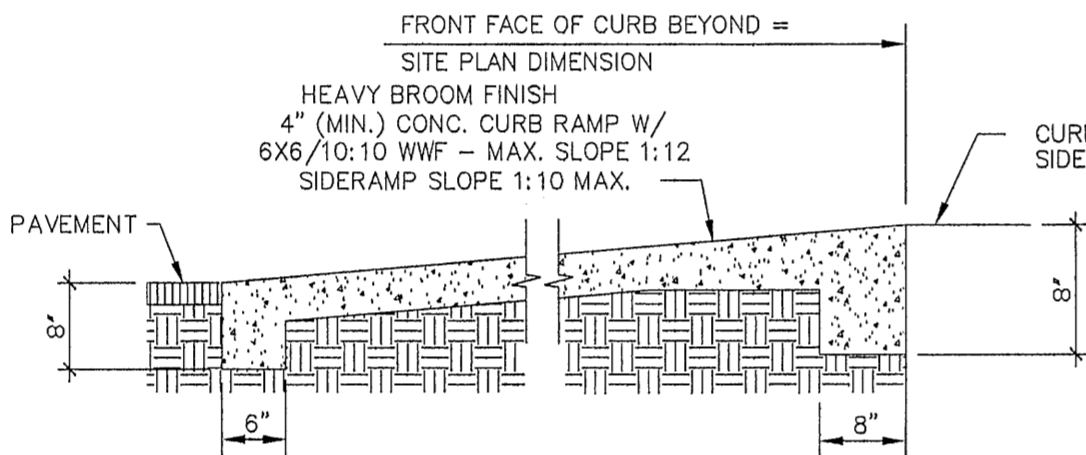
7 CONCRETE PAVING
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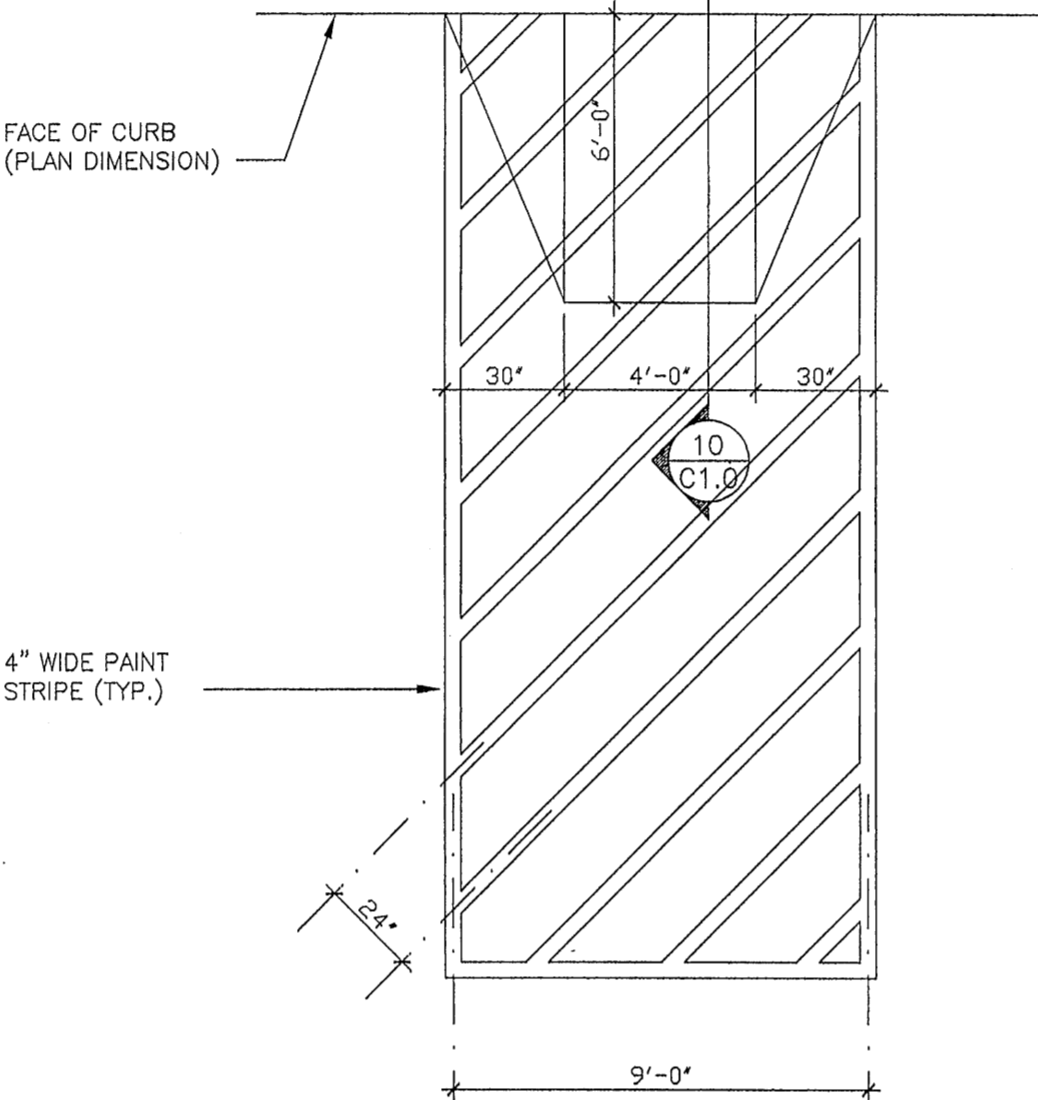
4 CONC. WALK JOINT DETAILS
NO SCALE



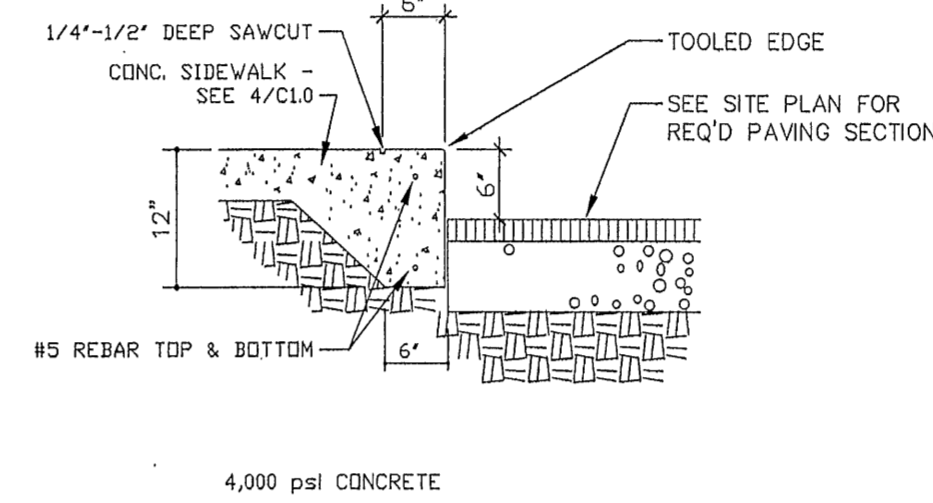
12 CONC. CURB
NO SCALE



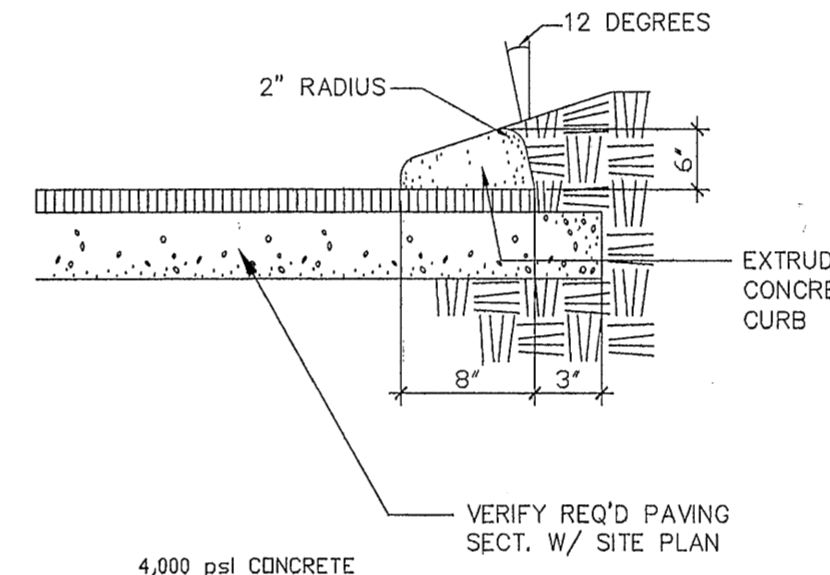
10 HC RAMP SECTION
NO SCALE



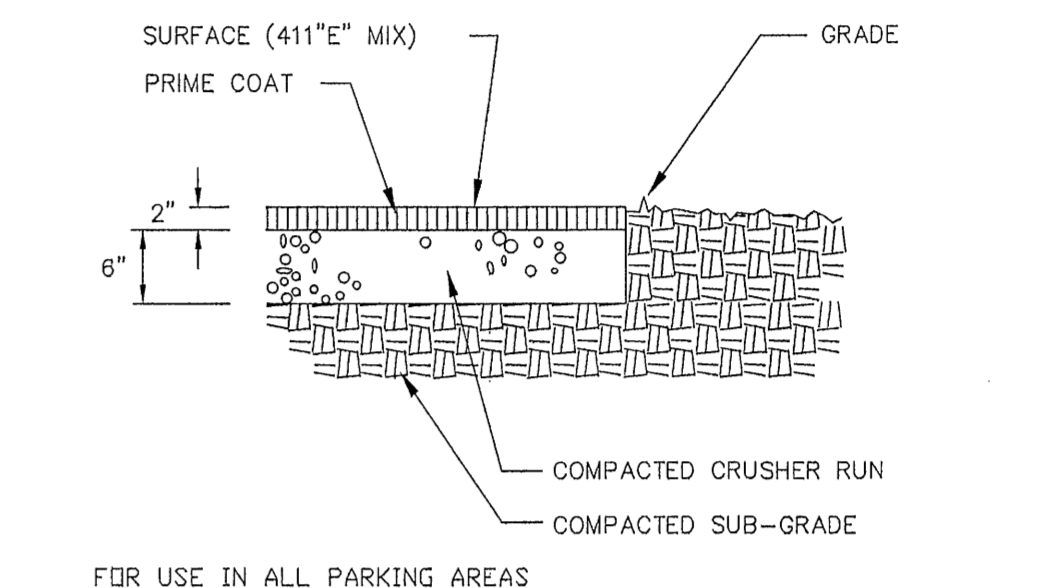
8 HC ACCESS LANE
NO SCALE



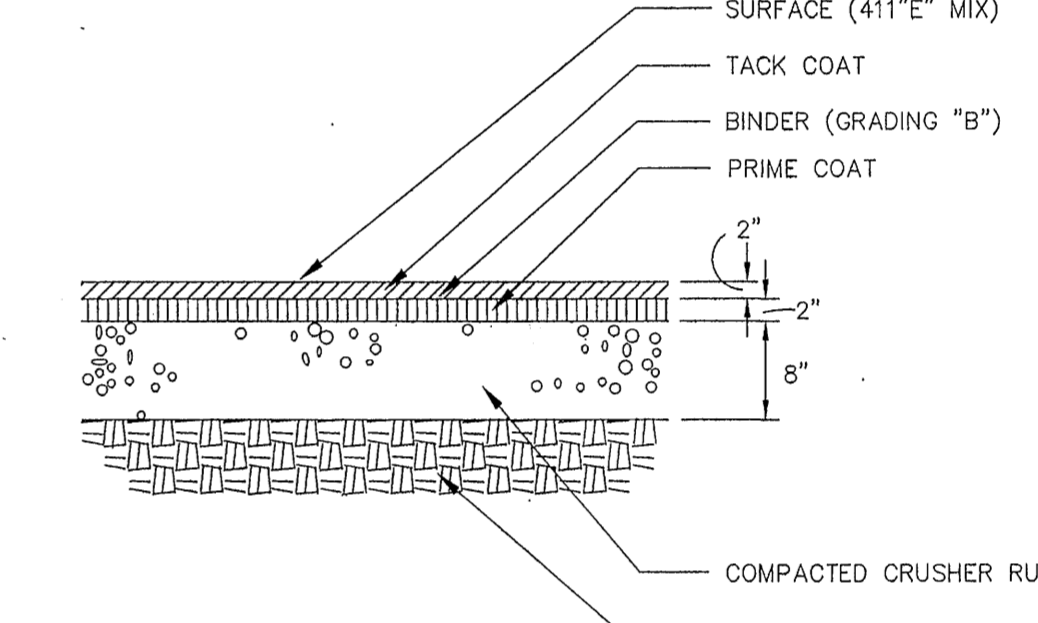
6 CONC. CURB AT SIDEWALK
NO SCALE



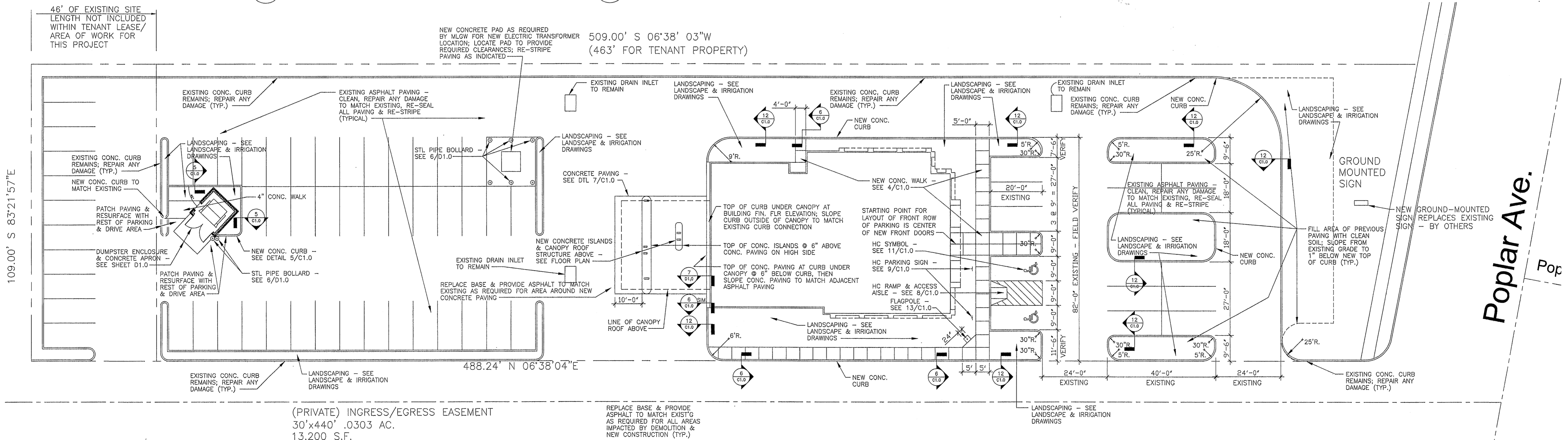
5 TYP. EXTRUDED CURB SECTION
NO SCALE



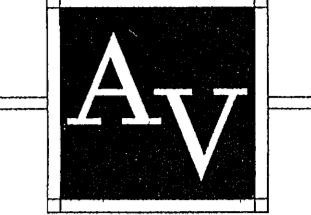
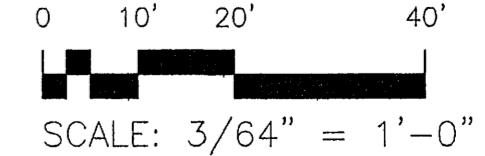
3 LIGHT DUTY PAVEMENT DETAIL
NOT TO SCALE



2 HEAVY DUTY PAVEMENT DETAIL
NO SCALE



1 EXISTING SITE LAYOUT PLAN, DEMOLITION PLAN
1" = 20'-0"



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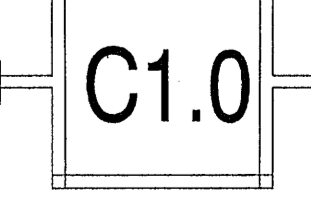
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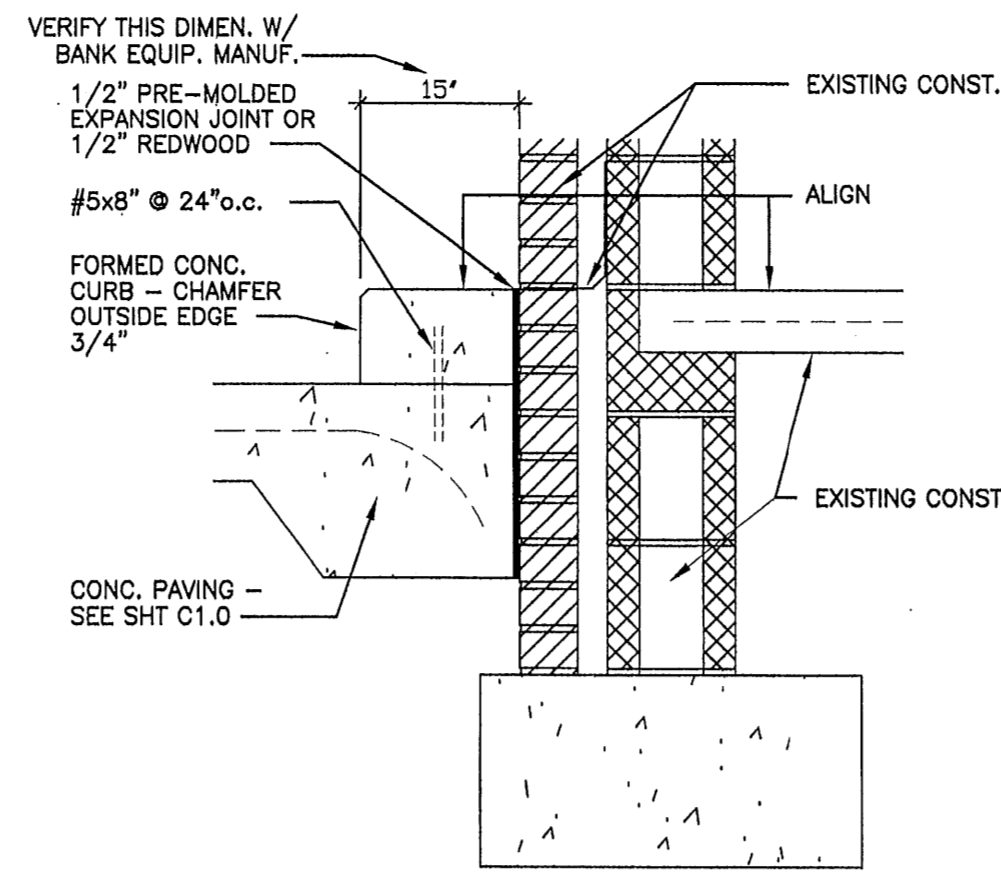
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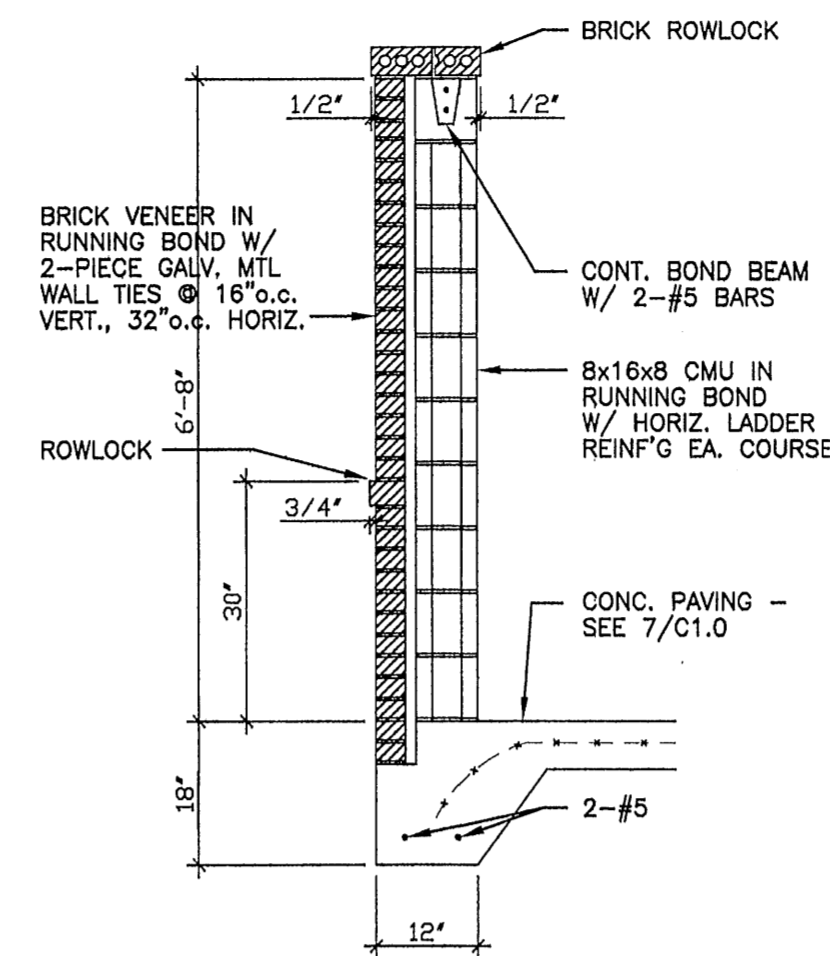
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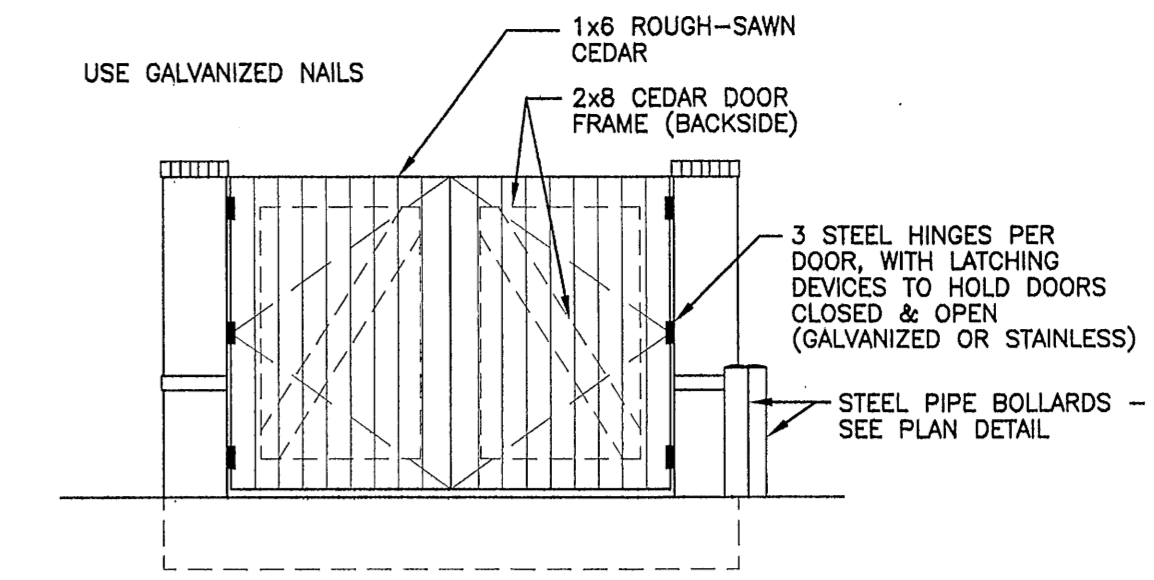




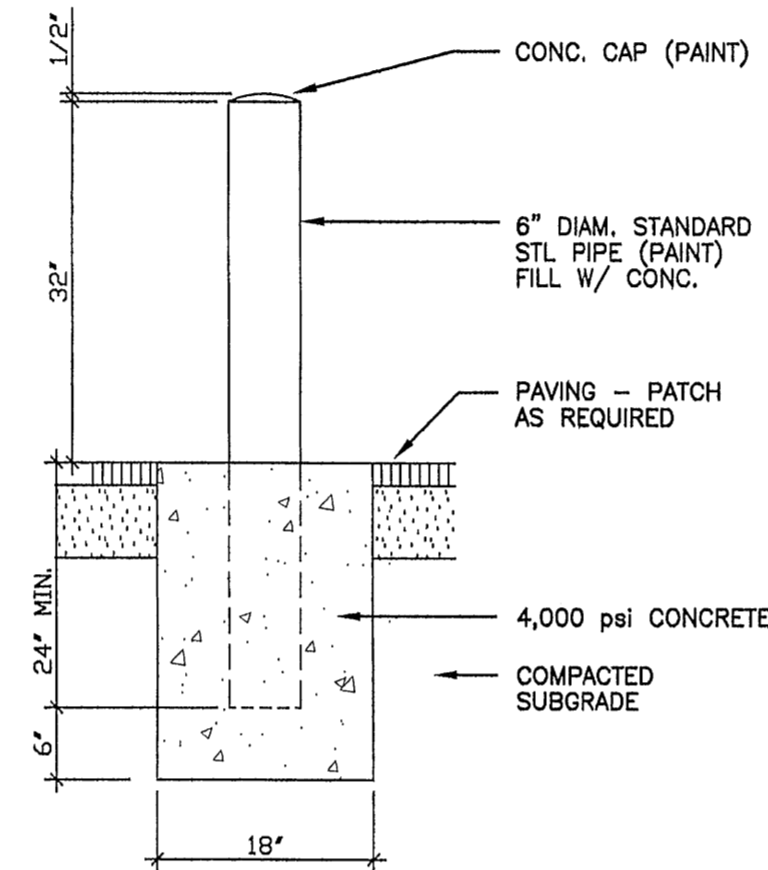
7 CONC. CURB @ CANOPY
NOT TO SCALE



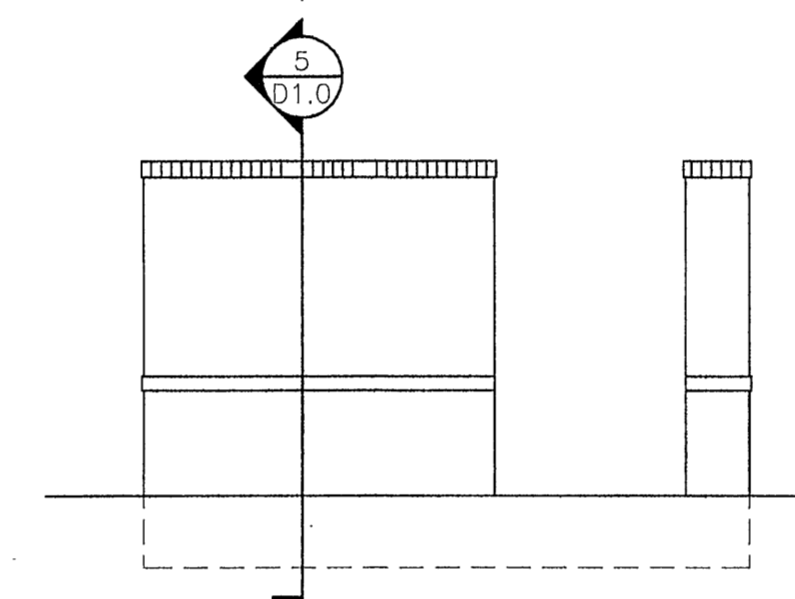
5 DUMPSTER WALL SECTION
1/2" = 1'



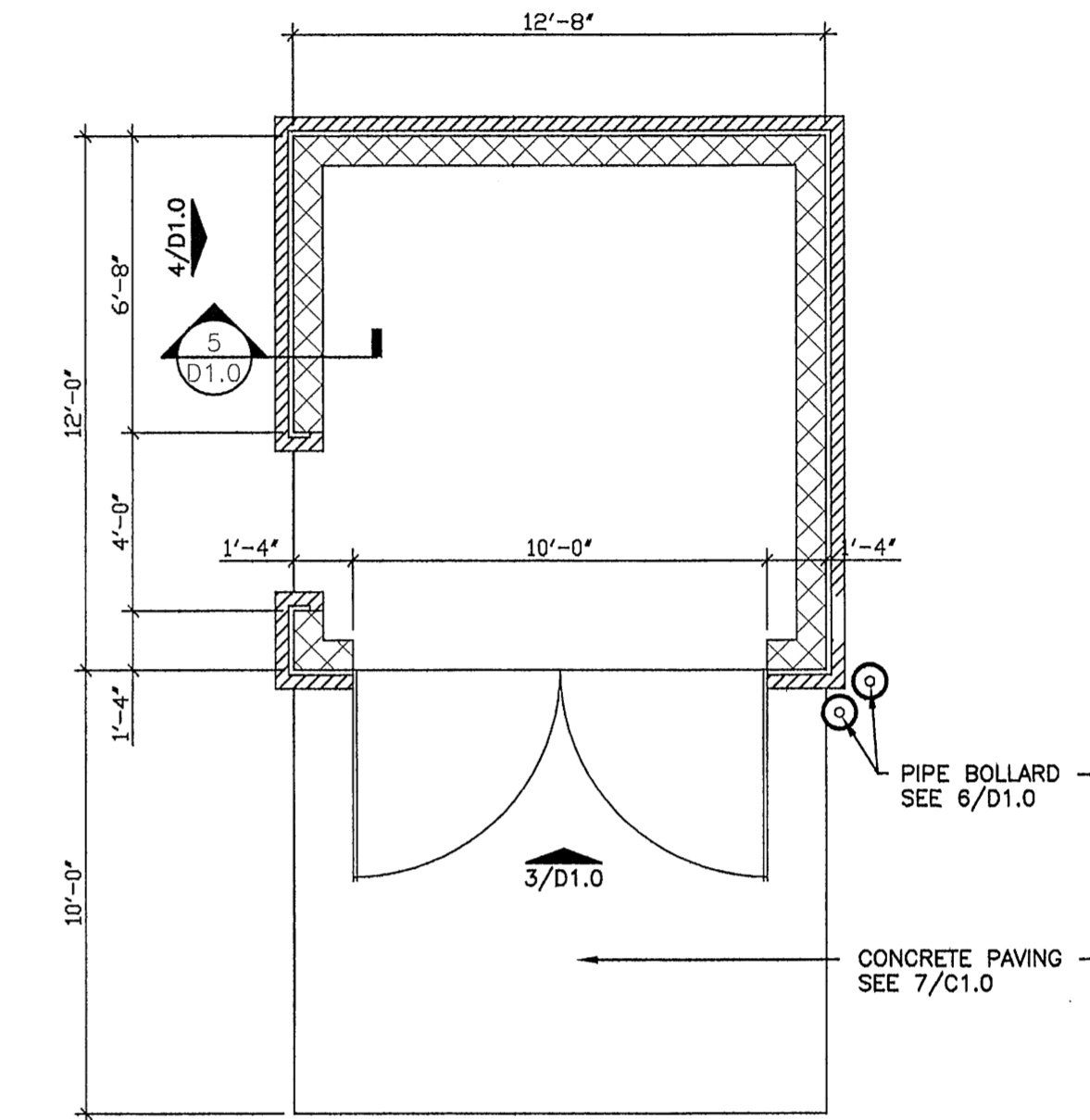
3 DUMPSTER FRONT ELEVATION
1/4" = 1'



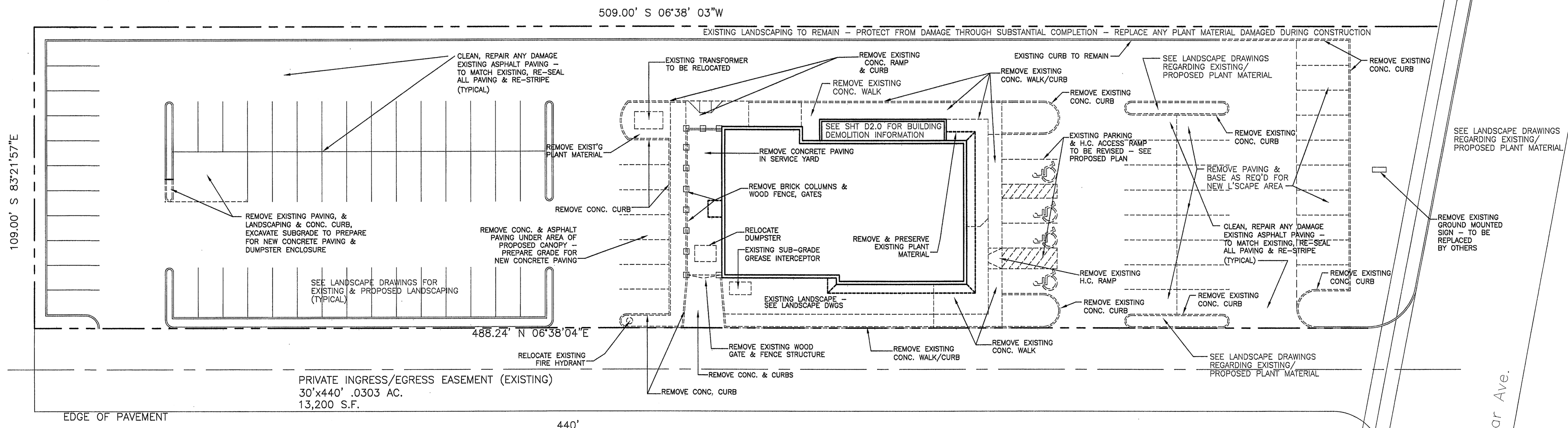
6 PIPE BOLLARD DETAIL
NOT TO SCALE



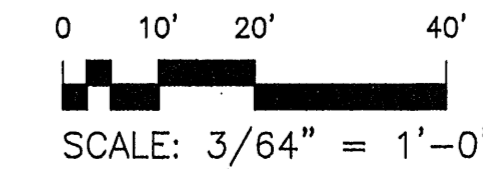
4 DUMPSTER SIDE ELEVATION
1/4" = 1'



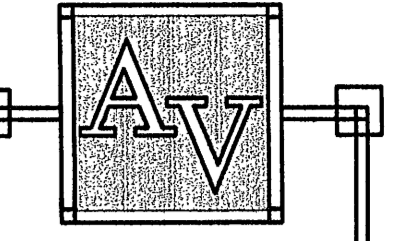
2 DUMPSTER ENCLOSURE PLAN
1/4" = 1'



1 EXISTING SITE LAYOUT PLAN, DEMOLITION PLAN
1" = 20'-0"



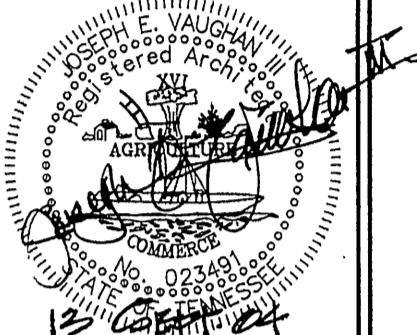
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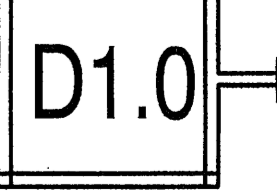
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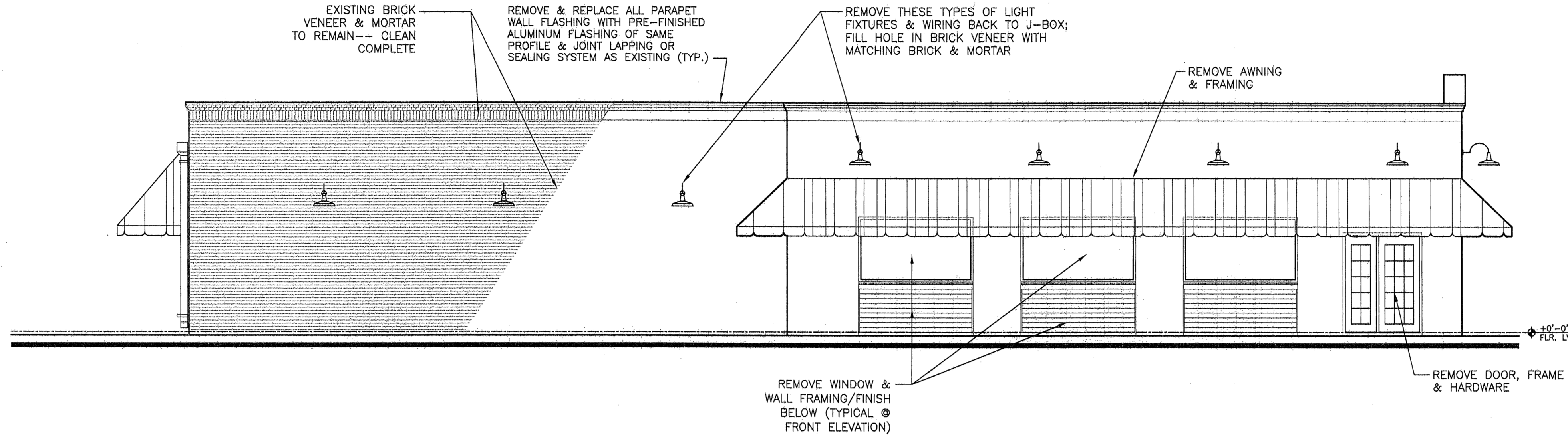


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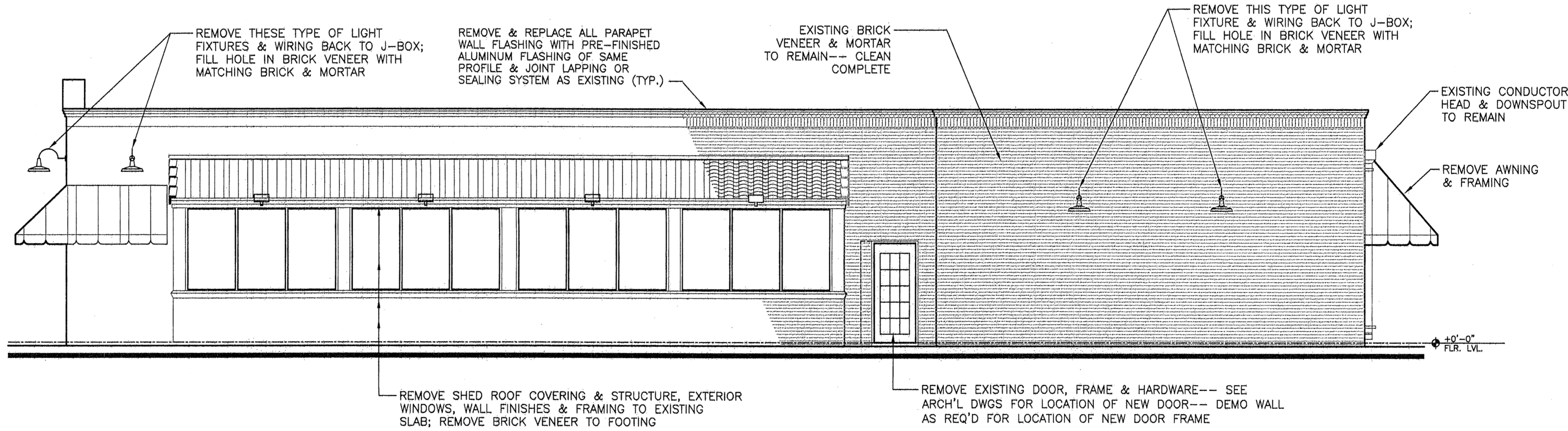
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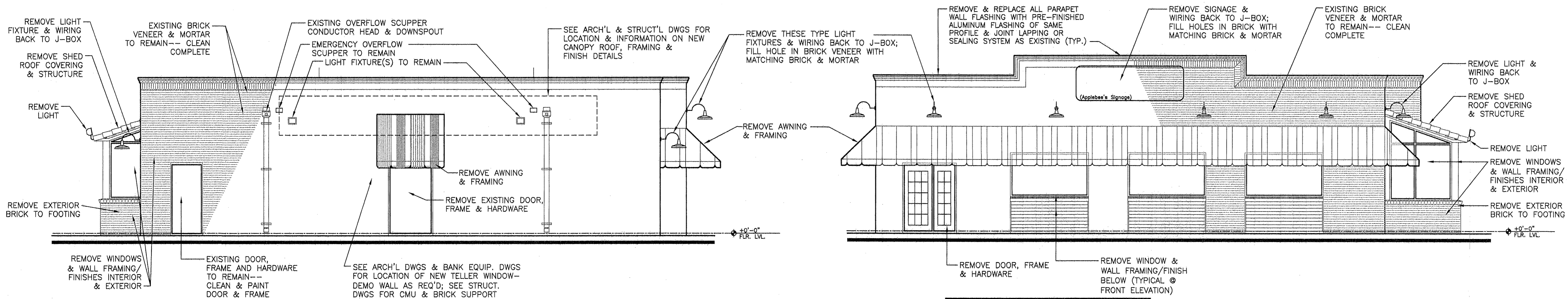
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4 SIDE/WEST ELEVATION; EXIST., DEMO
1/8" = 1'-0"



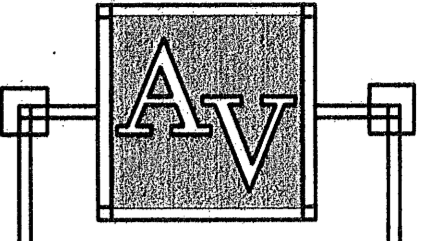
3 SIDE/EAST ELEVATION; EXIST., DEMO
1/8" = 1'-0"



2 REAR/NORTH ELEVATION; EXIST., DEMO
1/8" = 1'-0"

1 FRONT/SOUTH ELEVATION; EXIST., DEMO.
1/8" = 1'-0"

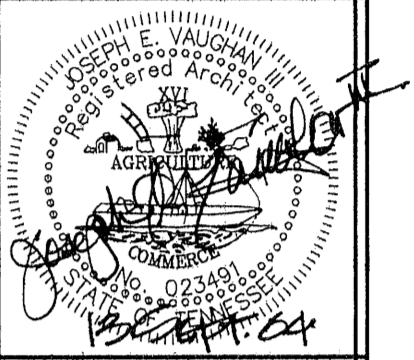
REPAIR ANY EXISTING CONSTRUCTION TO REMAIN WHICH IS DAMAGED DURING THE DEMOLITION OR RENOVATION PROCESS TO THE SATISFACTION OF OWNER & ARCHITECT.



ANDERSON VAUGHAN ARCHITECTS, INC.

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D3.0

ROOM FINISH SCHEDULE

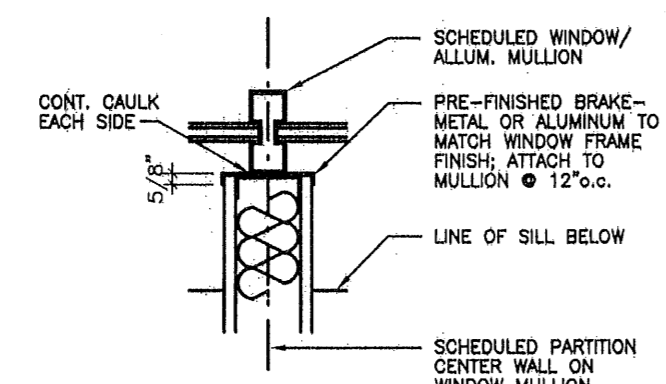
ROOM NO	ROOM NAME	WALLS			FLOOR			BASE			WAINSCOTE			TRIM			CEILING			NOTES
		MATERIAL	FINISH	COLOR	MATERIAL	FINISH	COLOR	MATERIAL	FINISH	COLOR	MATERIAL	FINISH	COLOR	MATERIAL	FINISH	COLOR	MATERIAL	FINISH	COLOR	
001	CITY PRES.	GWB	PAINT		CARPET	FF		WOOD	STAIN							SATC	FF		EXTERIOR CMU WALLS TO HAVE GWB FURRING.	
002	OFFICE	GWB	PAINT		CARPET	FF		WOOD	STAIN							SATC	FF		EXTERIOR CMU WALLS TO HAVE GWB FURRING.	
003	OFFICE	GWB	PAINT		CARPET	FF		WOOD	STAIN							SATC	FF		EXTERIOR CMU WALLS TO HAVE GWB FURRING.	
004	OFFICE	GWB	PAINT		CARPET	FF		WOOD	STAIN							SATC	FF		EXTERIOR CMU WALLS TO HAVE GWB FURRING.	
005	CASH VAULT	GWB	PAINT		CARPET	FF		VINYL	FF							SATC	FF			
006	VAULT	GWB	PAINT		CARPET	FF		VINYL	FF							SATC	FF			
007	WORK	GWB	WALL PAPER		VINYL TILE	FF		WOOD	STAIN							SATC	FF		EXTERIOR CMU WALLS TO HAVE GWB FURRING.	
008	WORK ROOM	GWB	PAINT		VCT	FF		VINYL	FF							SATC	FF		EXTERIOR CMU WALLS TO HAVE GWB FURRING.	
009	VESTIBULE	GWB	WALL PAPER		VINYL TILE	FF		WOOD	STAIN							GWB	PAINT		EXTERIOR CMU WALLS TO HAVE GWB FURRING.	
010	SECRETARIES	GWB	WALL PAPER		CARPET	FF		WOOD	STAIN							SATC	FF			
011	LOBBY	GWB	WALL PAPER		VINYL TILE	FF		WOOD	STAIN							SATC / GWB	FF / PAINT			
012	TELLERS	GWB	WALL PAPER		VCT	FF		VINYL	FF							SATC	FF		EXTERIOR CMU WALLS TO HAVE GWB FURRING.	
013	OFFICE	GWB	PAINT		CARPET	FF		WOOD	STAIN							SATC	FF		EXTERIOR CMU WALLS TO HAVE GWB FURRING.	
014	OFFICE	GWB	PAINT		CARPET	FF		WOOD	STAIN							SATC	FF		EXTERIOR CMU WALLS TO HAVE GWB FURRING.	
015	SECRETARY	GWB	WALL PAPER		CARPET	FF		WOOD	STAIN							SATC	FF			
016	OFFICE	GWB	PAINT		CARPET	FF		WOOD	STAIN							SATC	FF		LAMINATE GWB TO CMU AS NEEDED.	
017	CONFERENCE	GWB	WALL PAPER		CARPET	FF		WOOD	STAIN							SATC / GWB	FF / PAINT			
018	JANITOR / STORAGE	GWB	PAINT		VCT	FF		VINYL	FF							SATC	FF			
019	LOUNGE	GWB	PAINT		VCT	FF		VINYL	FF							SATC	FF		LAMINATE GWB TO CMU AS NEEDED.	
020	CORRIDOR	GWB	PAINT		VCT	FF		VINYL	FF							SATC	FF		LAMINATE GWB TO CMU AS NEEDED.	
021	MEN'S TOILET	GWB	WALL PAPER		VCT	FF		VINYL	FF							SATC	FF		LAMINATE GWB TO CMU AS NEEDED.	
022	LADIES' TOILET	GWB	WALL PAPER		VCT	FF		VINYL	FF							SATC	FF		LAMINATE GWB TO CMU AS NEEDED.	
023	COMMUNICATION	GWB	PAINT		VCT	FF		VINYL	FF							SATC	FF		LAMINATE GWB TO CMU AS NEEDED.	
024	ELECTRIC EQUIPMENT	GWB	PAINT		CONCRETE	SEALED		VINYL	FF							EXPOSED			LAMINATE GWB TO CMU AS NEEDED.	

NOTES TO FINISH SCHEDULE:

- SPECIFIC FINISH SELECTIONS BY OWNER, OTHERS.
- WOOD BASE: 1X6 QUARTER SAWN BIRCH, MITER CORNER JTS, TYP.
- SEE FLOOR FINISH PLAN, SHEET A4.3
- WALL COVERING SELECTION LOCATIONS:
DeNovo, Elise, DN2-ELS-16: Vestibule 09, Lobby 11, Secretary 15, Tellers 12,, Work 07, Secretary 10, Conference 17
LenTex, Bretton 2028-BT, Cirko: Men 21
Eykon, INterlock I TPI-13: Ladies 22

GWB = GYPSUM WALLBOARD VCT = VINYL CERAMIC TILE FF = FACTORY FINISHED SATC = SUSPENDED ACOUSTIC TILE CEILING

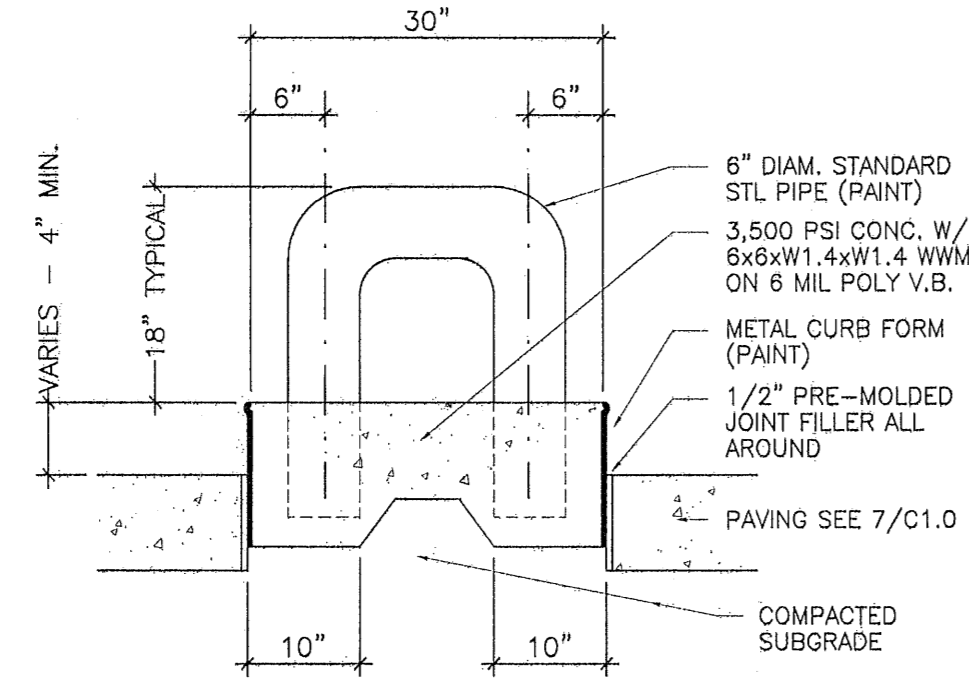
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4 PLAN DETAIL
1 1/2" = 1"

SEE SHEET A6.1 FOR ADDITIONAL WALL CONSTRUCTION INFORMATION

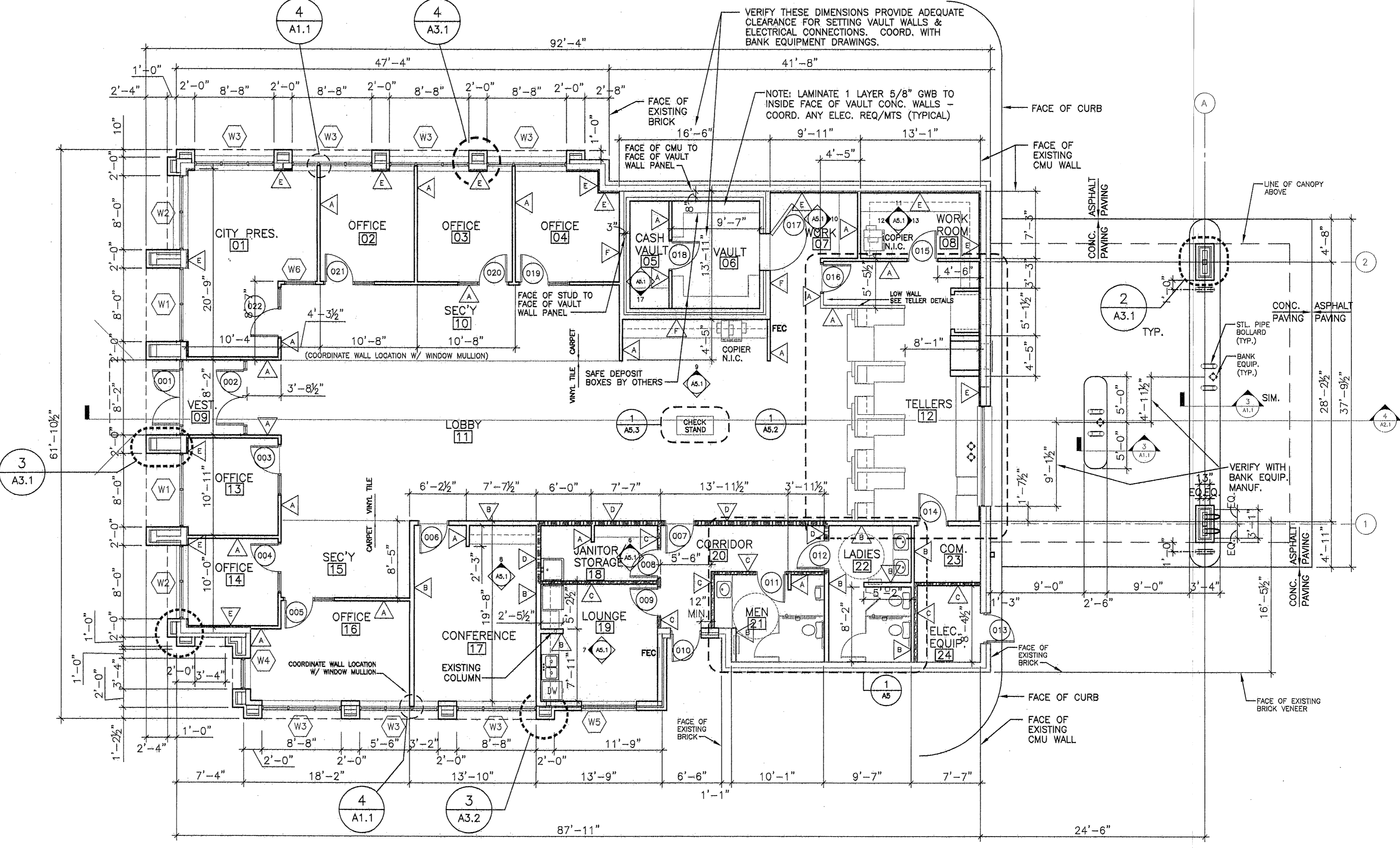
- WALL TYPES**
- A** 3/8" 20 GA. MTL. STUDS @ 16" O.C.
+ 5/8" GWB EACH SIDE
NOT RATED
 - B** 6" 20 GA. MTL. STUDS @ 16" O.C.
+ 5/8" GWB EACH SIDE
NON RATED
 - C** 3/8" 20 GA. MTL. STUDS @ 16" O.C.
+ 1/2" TYPE "X" GWB EACH SIDE
1 HR. RATED
 - D** 6" 20 GA. MTL. STUDS @ 16" O.C.
+ 5/8" TYPE "X" GWB EACH SIDE
1 HR. RATED
 - E** 1/2" 22GA. HAT CHANNELS @ 16" O.C. VERT.
NON RATED - FURRING WALL
 - F** 6" 20 GA. MTL. STUDS @ 16" O.C.
+ 5/8" GWB EACH SIDE
SURROUNDING PRE-FAB. VAULT
NON RATED



3 PIPE BOLLARD DETAIL
NO SCALE

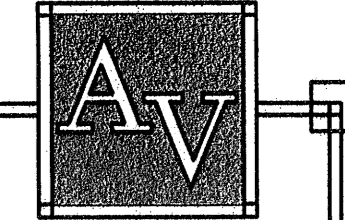
- LEGEND**
- ROOM [029] = ROOM NUMBER, SEE FINISH SCHEDULE
 - NEW DOOR
 - NEW PARTITION
 - 1 HOUR RATED WALL
 - WALL TYPE - SEE SCHEDULE
 - FIRE EXTINGUISHER 3A MIN. EXTINGUISHER W/ RECESSED CABINET
 - DOOR NUMBER - SEE SCHEDULE
 - WINDOW TYPE - SEE SCHEDULE
 - WALL ELEVATION DETAIL # / SHEET #
 - EXTERIOR ELEVATION DETAIL # / SHEET #
 - ELEVATION (PLAN)
 - ELEVATION (SECTION)

2 TYP. WOOD BASE PROFILE
3" = 1"



CLEAN ALL EXISTING CONSTRUCTION TO REMAIN, REPAIR OR REPLACE ANY DAMAGED CONSTRUCTION TO REMAIN TO MATCH EXISTING (TYPICAL)

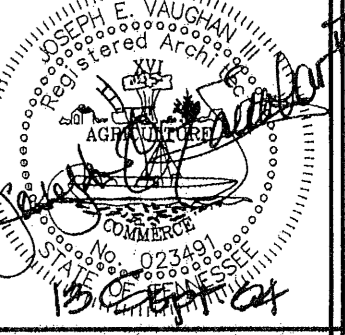
1 FLOOR PLAN
1/8" = 1'-0"



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EMAIL: AVARCH@PRODIGY.NET

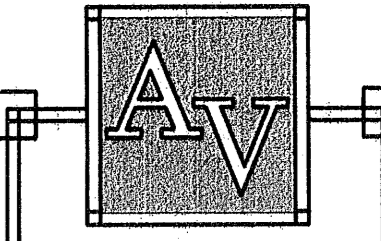
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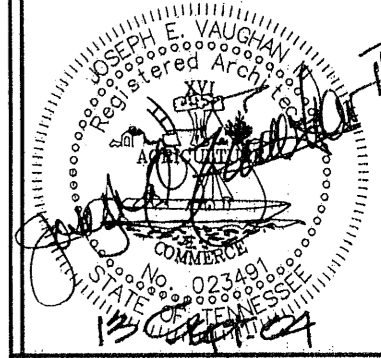
A1.1



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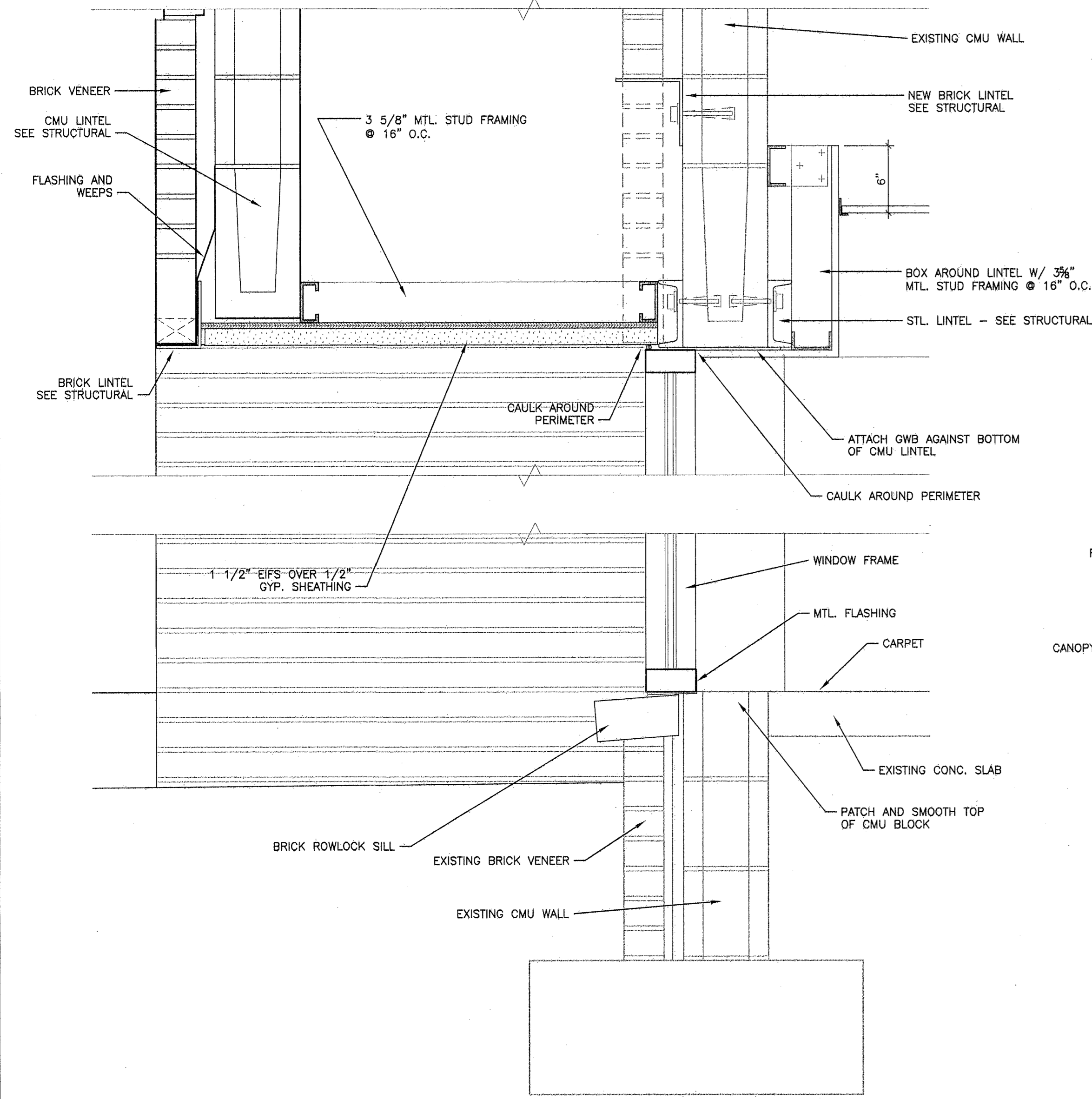
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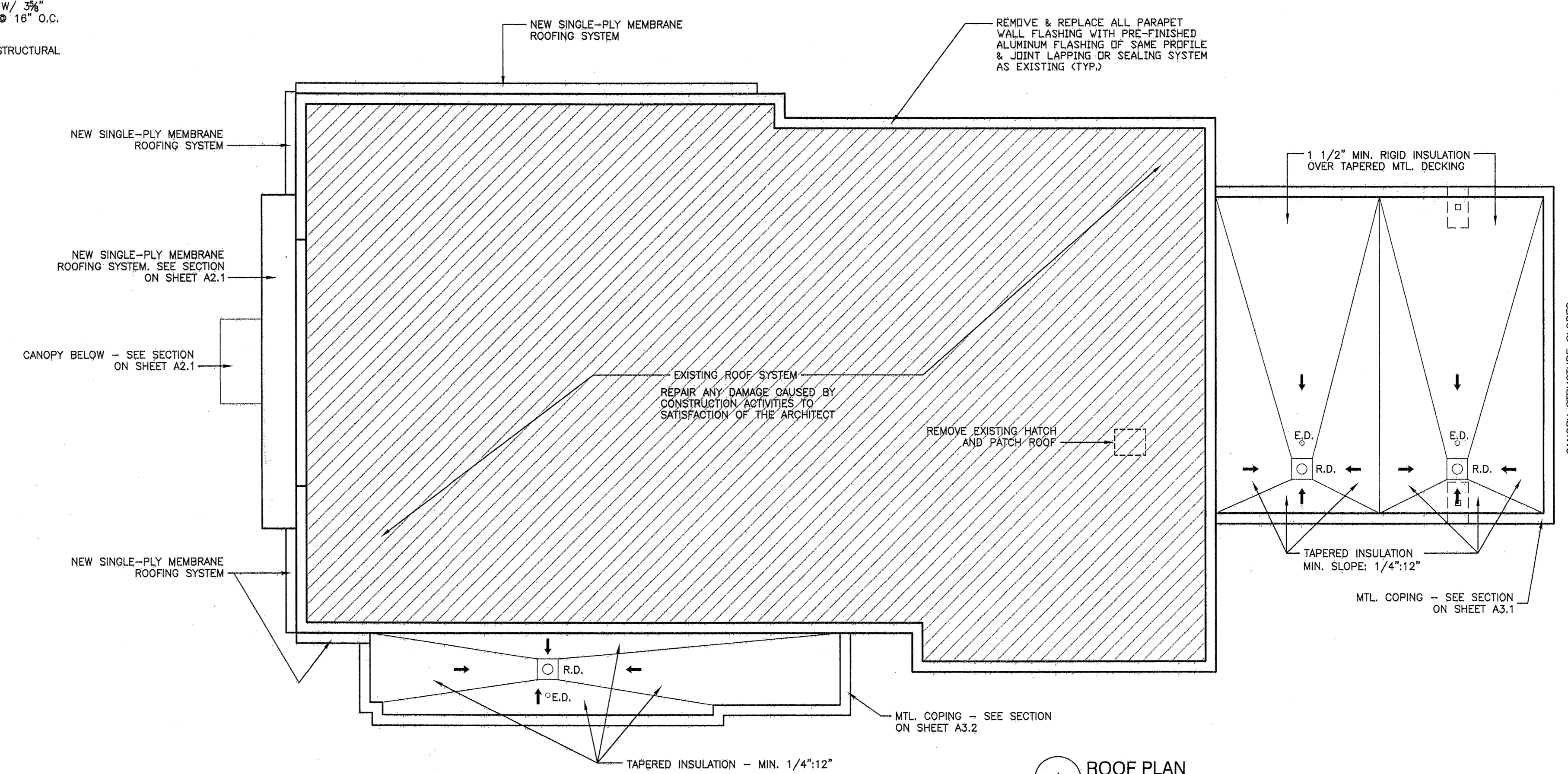
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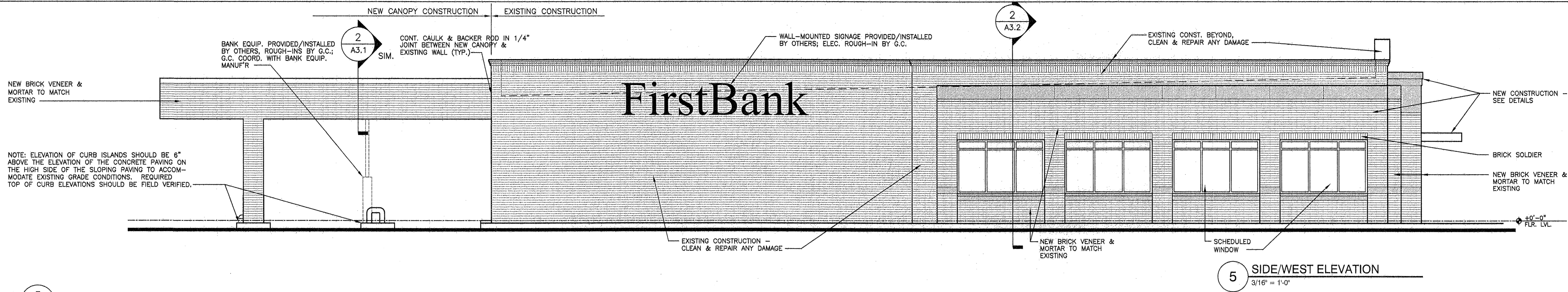
A1.2



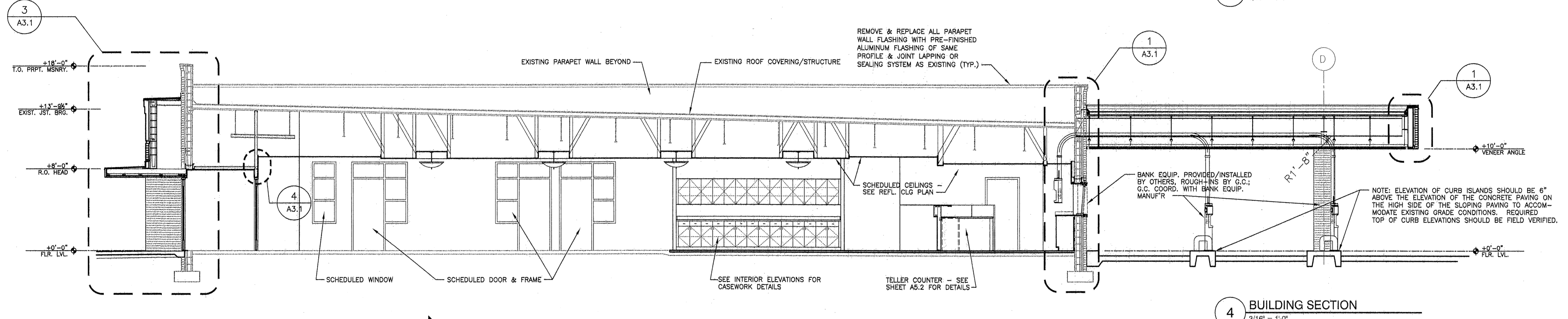
2 SECTION THROUGH FRONT WINDOW
1 1/2" = 1'-0"



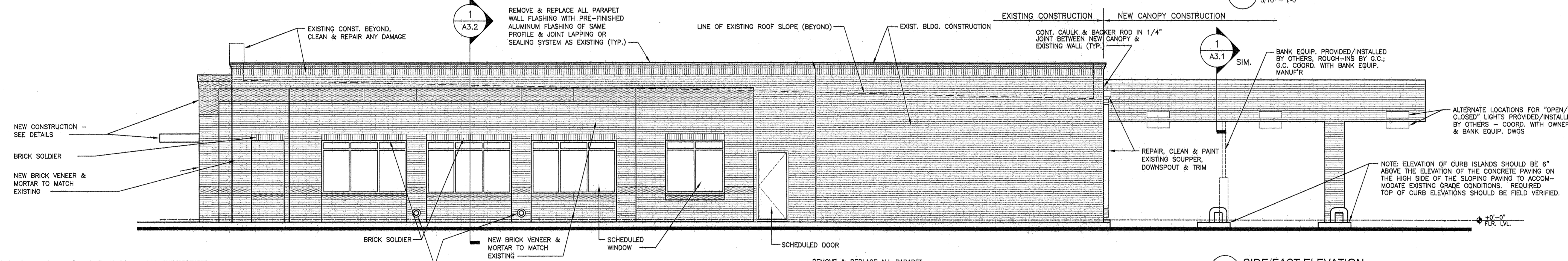
1 ROOF PLAN
1/8" = 1'-0"



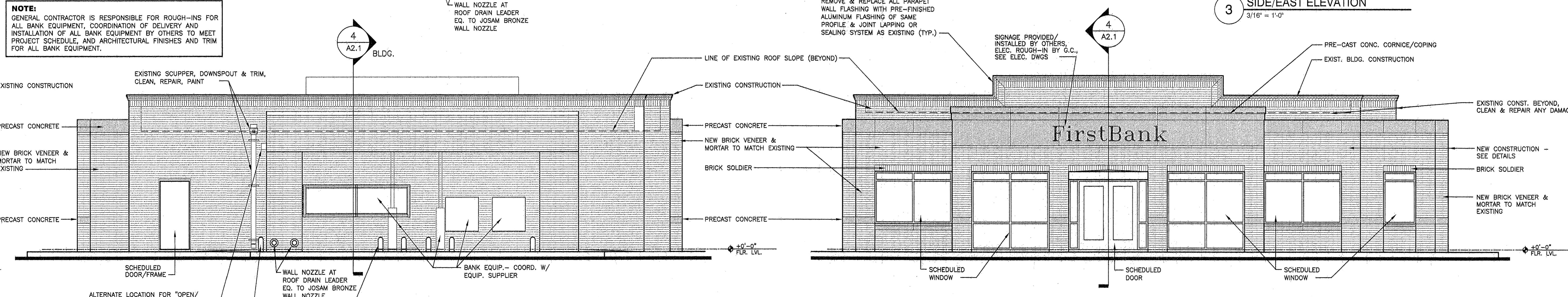
5 SIDE/WEST ELEVATION
3/16" = 1'-0"



4 BUILDING SECTION
3/16" = 1'-0"



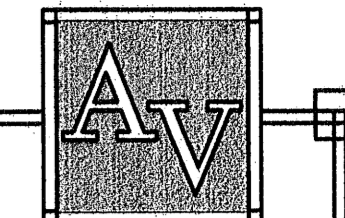
3 SIDE/EAST ELEVATION
3/16" = 1'-0"



2 REAR/NORTH ELEVATION
3/16" = 1'-0"



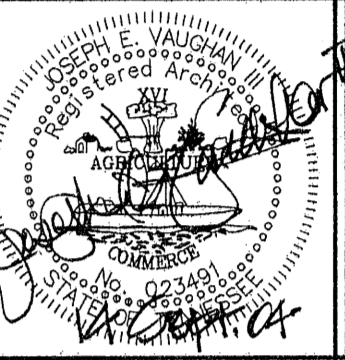
1 FRONT/SOUTH ELEVATION
3/16" = 1'-0"



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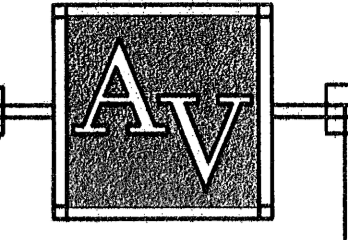
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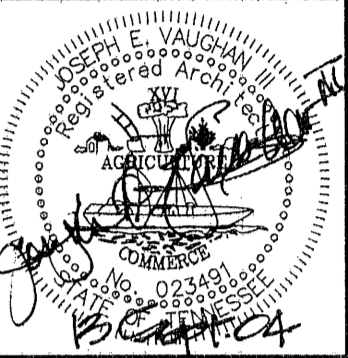
A2.1



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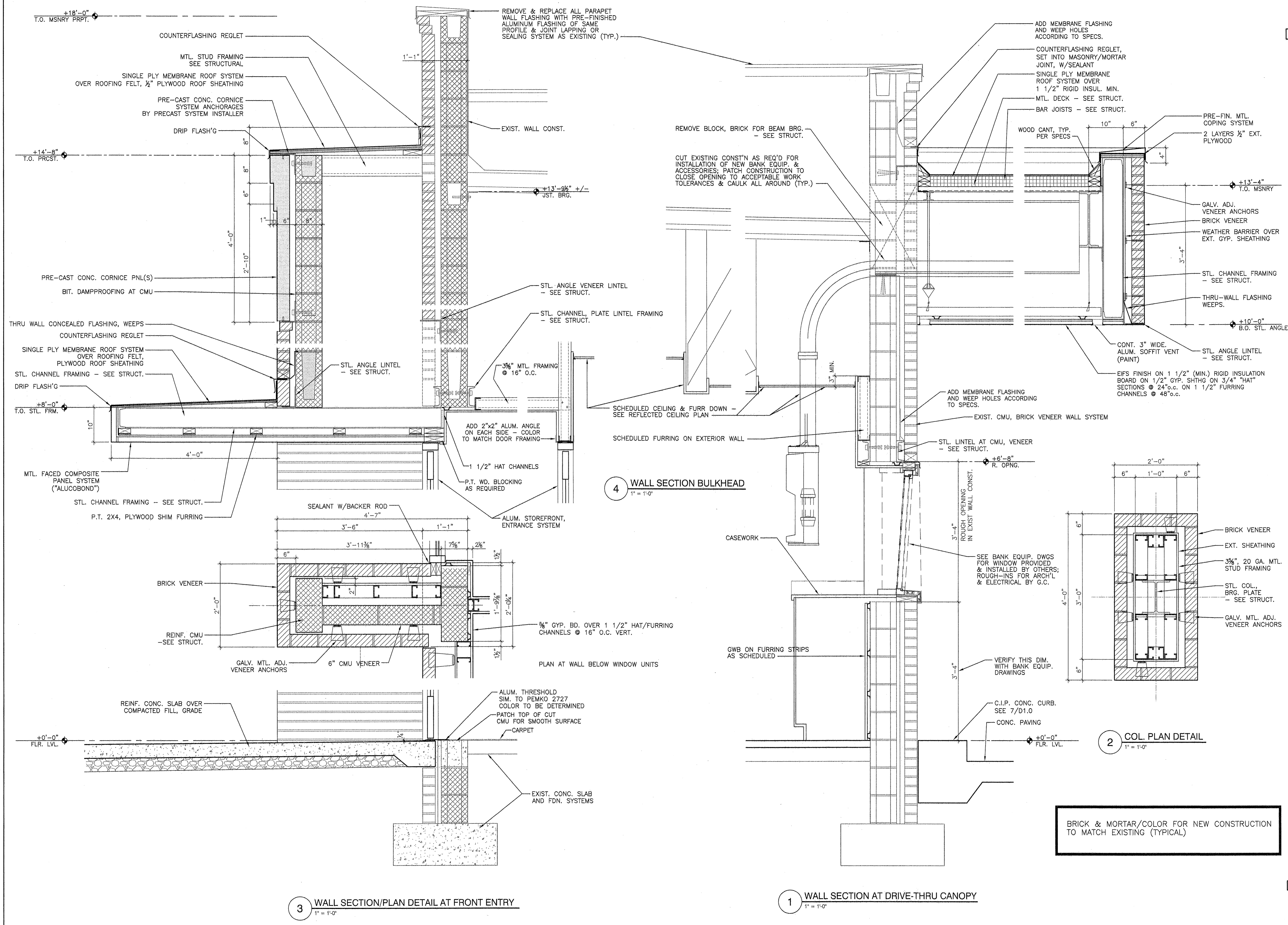
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A3.1



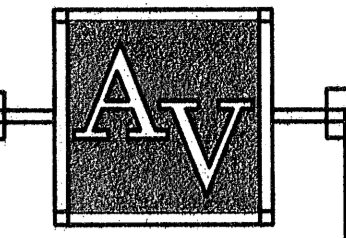
3 WALL SECTION/PLAN DETAIL AT FRONT ENTRY
1" = 1'-0"

1 WALL SECTION AT DRIVE-THRU CANOPY
1" = 1'-0"

2 COL. PLAN DETAIL
1" = 1'-0"

4 WALL SECTION BULKHEAD
1" = 1'-0"

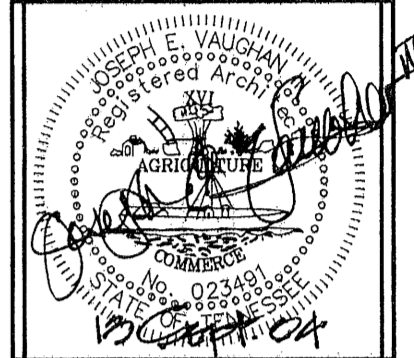
BRICK & MORTAR/COLOR FOR NEW CONSTRUCTION TO MATCH EXISTING (TYPICAL)



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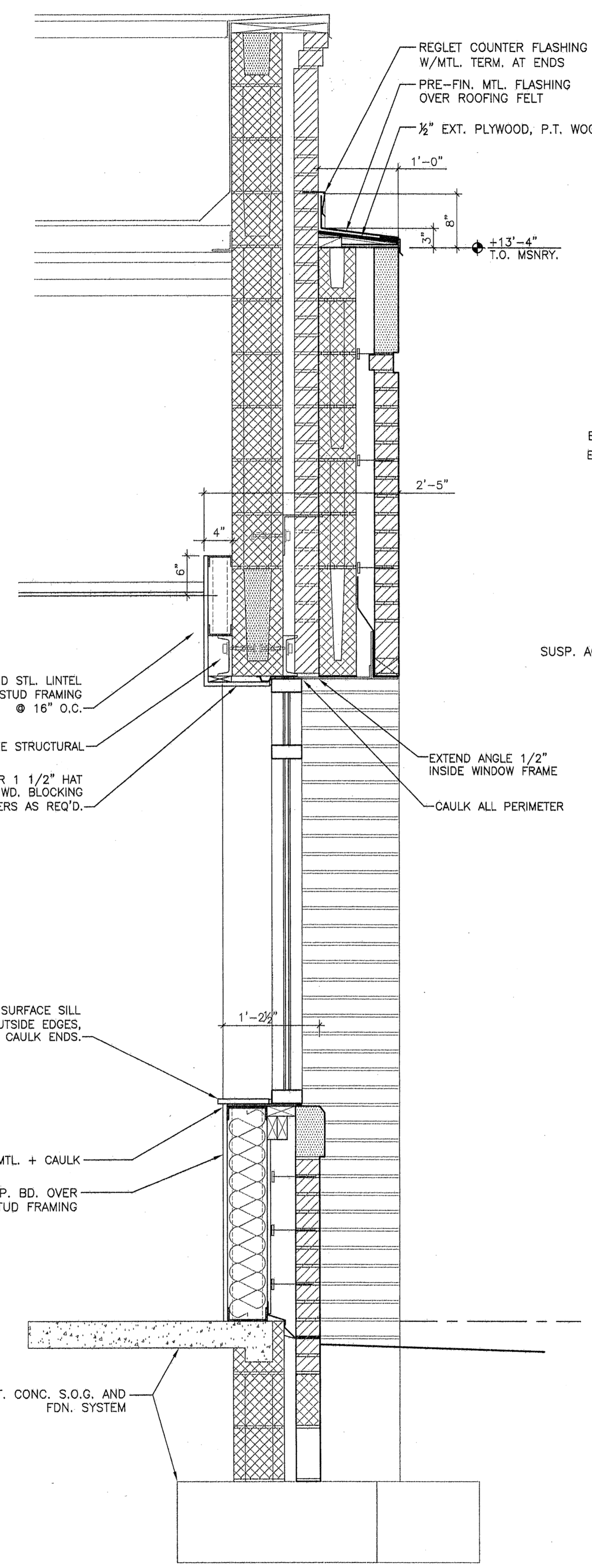
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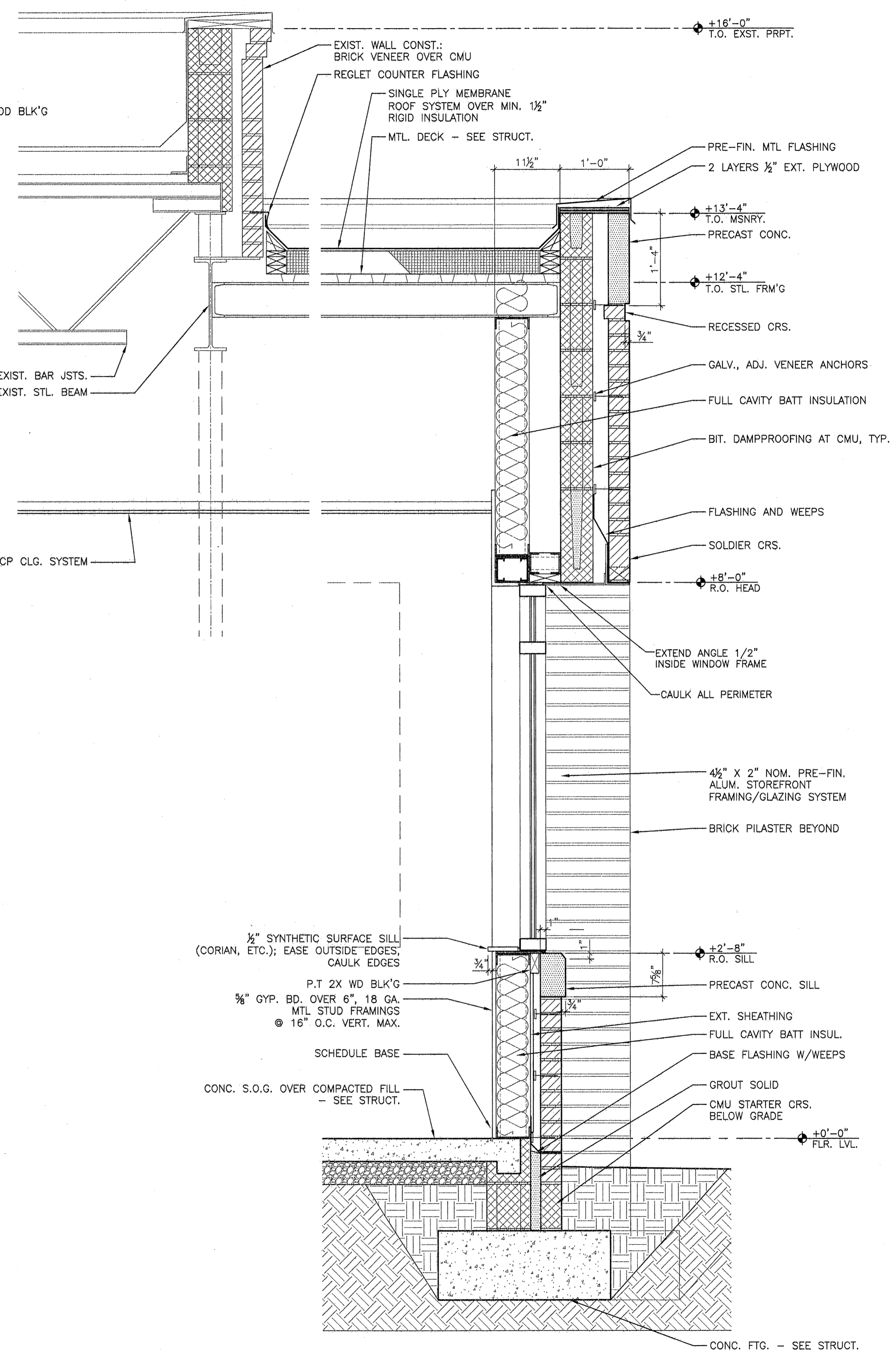
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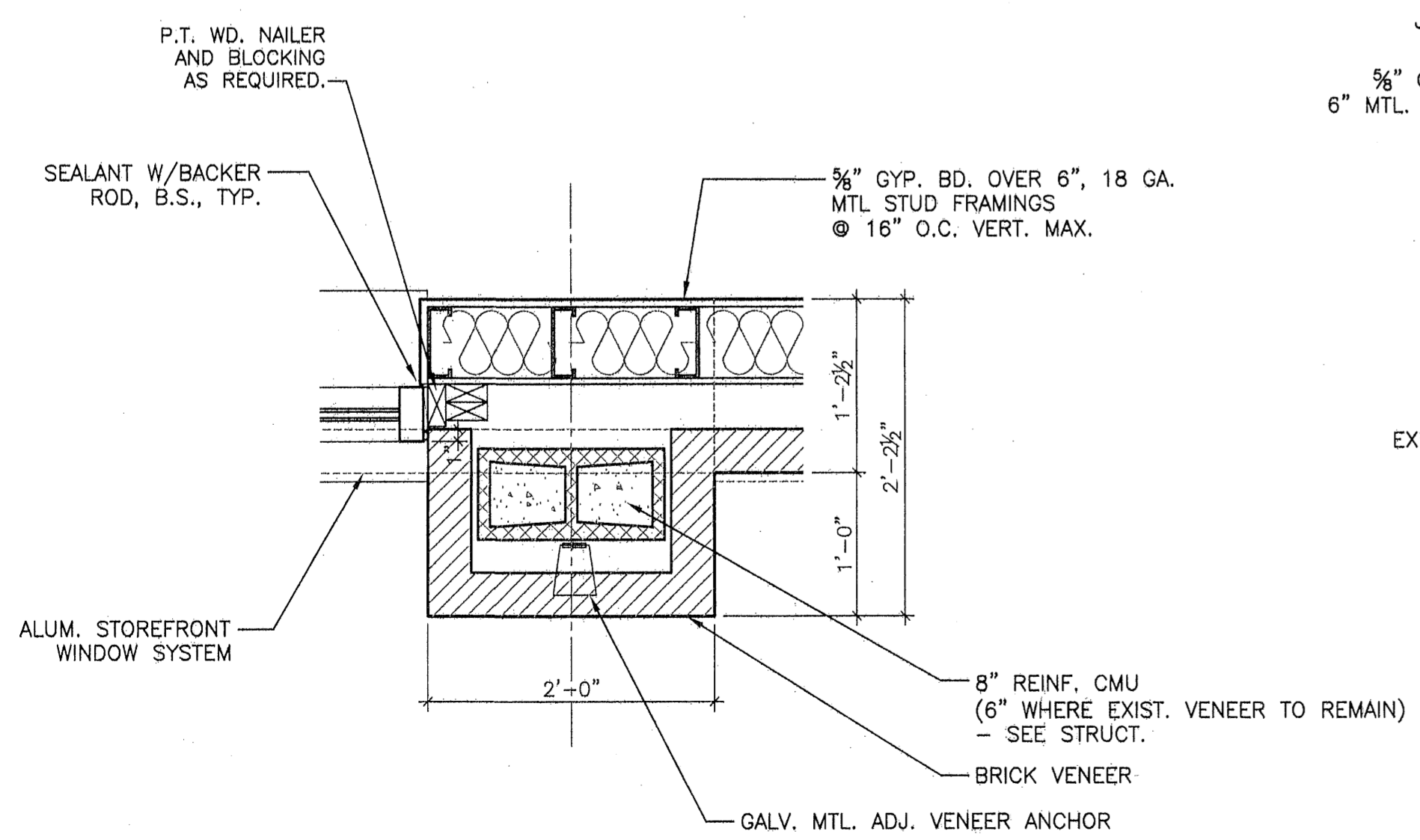
A3.2



2 WALL SECTION - NEW AT TYP. WALL OPNG.
1" = 1'-0"



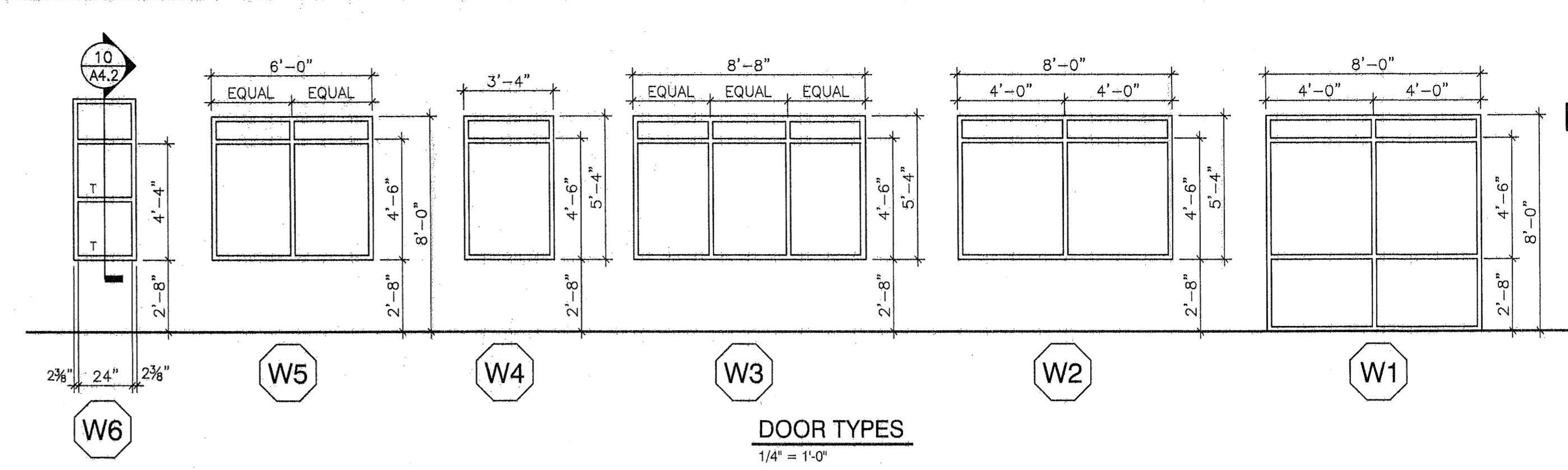
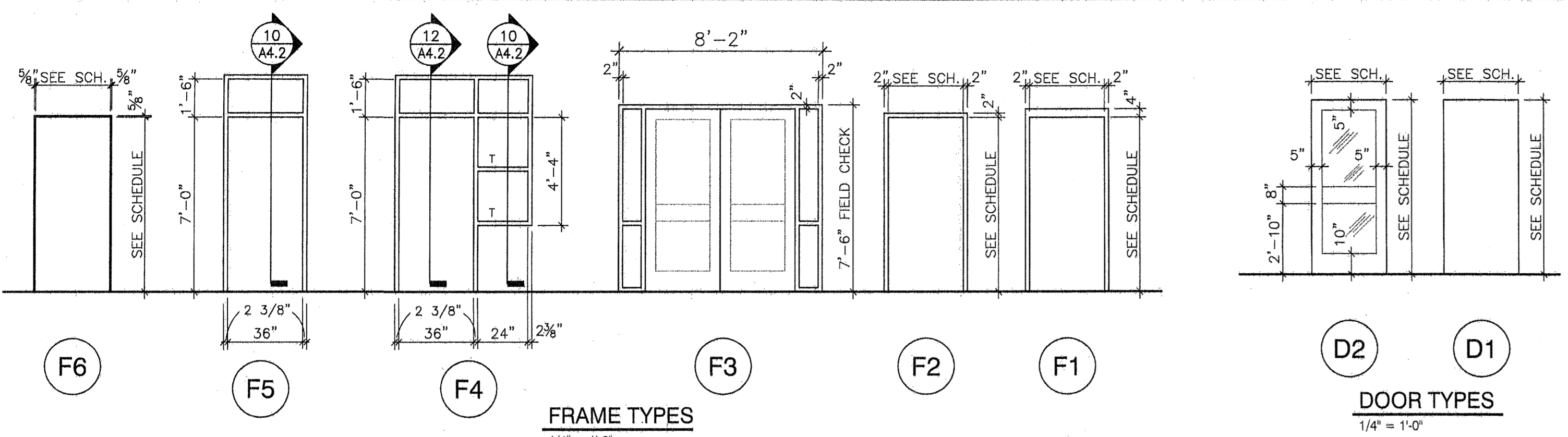
1 WALL SECTION - NEW AT STL. BEAM
1" = 1'-0"



3 PLAN DETAIL
1" = 1'-0"

BALANCE OF SECTION SAME AS SECTION 1/A3.2, U.N.O.

0416-A3.1, 9/15/2004 2:33:50 PM



DOOR AND FRAME SCHEDULE

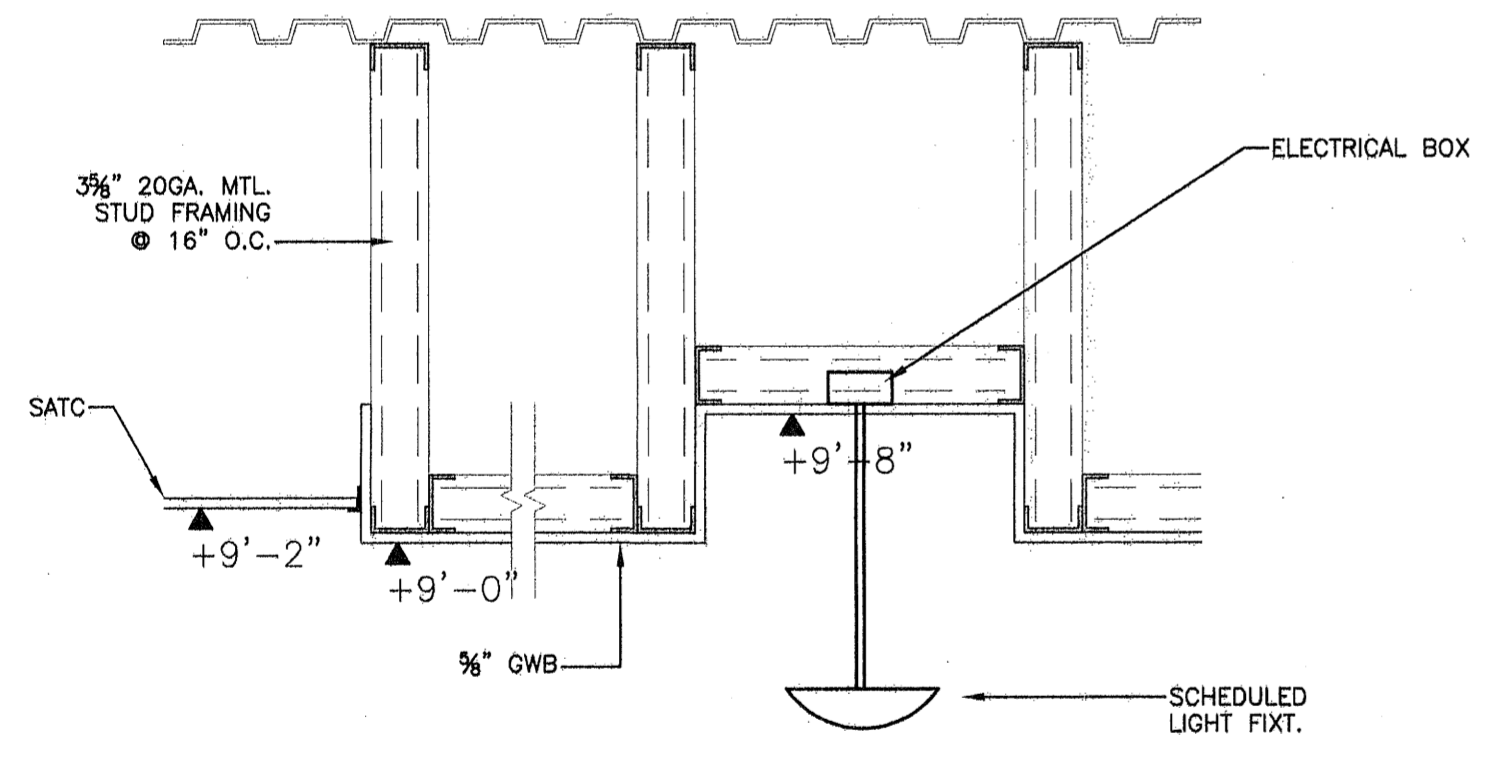
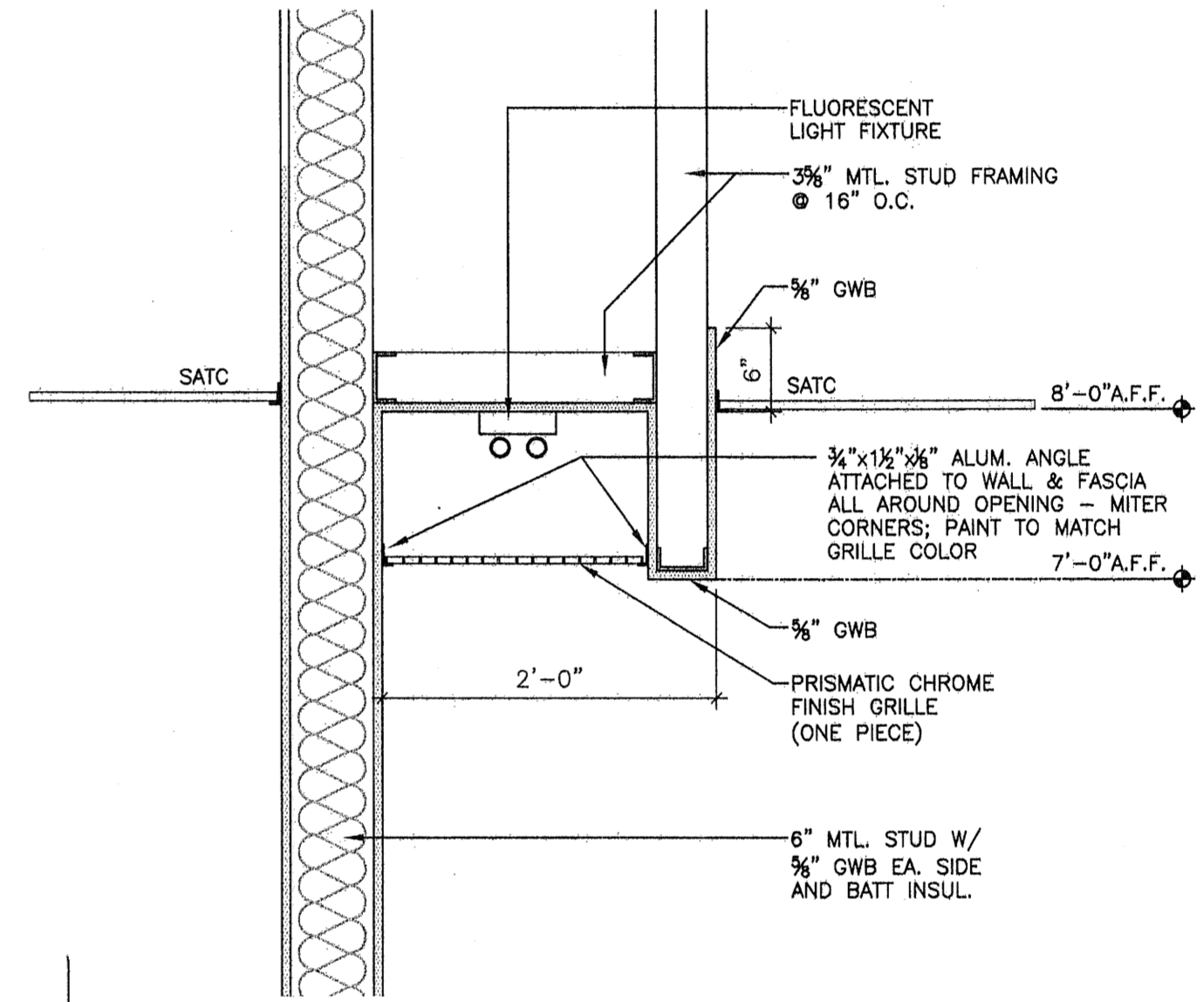
MARK	DOOR			FRAME							FIRE RATE	HARDWARE	NOTES		
	WD	HGT	THK	TYPE	MATL	FINISH	FR TYPE	FR MATL	FR FIN	HEAD				SILL	JAMB
001	PR 3'-0"	7'-0"	2"	D2	ALUM.	FF	F3	ALUM.	FF	H1	S1	J1	---	1	---
002	PR 3'-0"	7'-0"	2"	D2	ALUM.	FF	F3	ALUM.	FF	H2	---	J2	---	1	---
003	3'-0"	7'-0"	1 3/4"	D1	SCW	STAIN	F4	WOOD	PAINT	H5	---	J5	---	2	---
004	3'-0"	7'-0"	1 3/4"	D1	SCW	STAIN	F4	WOOD	STAIN	H5	---	J5	---	2	---
005	3'-0"	7'-0"	1 3/4"	D1	SCW	STAIN	F4	WOOD	STAIN	H5	---	J5	---	2	---
006	3'-0"	7'-0"	1 3/4"	D1	SCW	STAIN	F5	WOOD	STAIN	H5	---	J5	---	3	---
007	3'-0"	7'-0"	1 3/4"	D1	SCW	STAIN	F6	WOOD	STAIN	H6	---	J6	20 MIN.	4	---
008	3'-0"	7'-0"	1 3/4"	D1	SCW	STAIN	F2	H.M.	PAINT	H4	---	J4	45 MIN.	5	---
009	3'-0"	7'-0"	1 3/4"	D1	SCW	STAIN	F2	H.M.	PAINT	H4	---	J4	20 MIN.	6	---
010	3'-0"	7'-0"	1 3/4"	D1	I.H.M.	PAINT	F1	H.M.	PAINT	H3	S3	J3	---	9	---
011	3'-0"	7'-0"	1 3/4"	D1	SCW	STAIN	F2	H.M.	PAINT	H4	---	J4	20 MIN.	7	---
012	3'-0"	7'-0"	1 3/4"	D1	SCW	STAIN	F2	H.M.	PAINT	H4	---	J4	20 MIN.	7	---
013	3'-0"	7'-0"	1 3/4"	D1	I.H.M.	PAINT	F1	H.M.	PAINT	H3	S3	J3	---	8	---
014	3'-0"	7'-0"	1 3/4"	D1	SCW	STAIN	F6	WOOD	STAIN	H6	---	J6	---	10	---
015	3'-0"	7'-0"	1 3/4"	D1	SCW	STAIN	F6	WOOD	STAIN	H6	---	J6	---	11	---
016	3'-0"	7'-0"	1 3/4"	D1	SCW	STAIN	F6	WOOD	STAIN	H6	---	J6	---	12	---
017	4'-0"	7'-0"	4"	D1	ST. STEEL	---	---	ST. STEEL	---	---	---	---	---	---	VAULT DOOR -- BY BANK EQUIPMENT SUPPLIER
018	3'-0"	7'-0"	1 3/4"	D1	SCW	STAIN	F6	WOOD	STAIN	H6	---	J6	---	13	---
019	3'-0"	7'-0"	1 3/4"	D1	SCW	STAIN	F4	WOOD	STAIN	H5	---	J5	---	2	---
020	3'-0"	7'-0"	1 3/4"	D1	SCW	STAIN	F4	WOOD	STAIN	H5	---	J5	---	2	---
021	3'-0"	7'-0"	1 3/4"	D1	SCW	STAIN	F4	WOOD	STAIN	H5	---	J5	---	2	---
022	3'-0"	7'-0"	1 3/4"	D1	SCW	STAIN	F4	WOOD	STAIN	H5	---	J5	---	2	---

GLAZING NOTES:
 DOORS AND WINDOWS:
 EXTERIOR: 1" THICK, TINTED, LOW-E, INSULATED. TEMPERED WHERE REQ'D. BY CODE.
 INTERIOR: 1/4" THICK MIN., CLEAR. TEMPERED WHERE REQ'D. BY CODE.

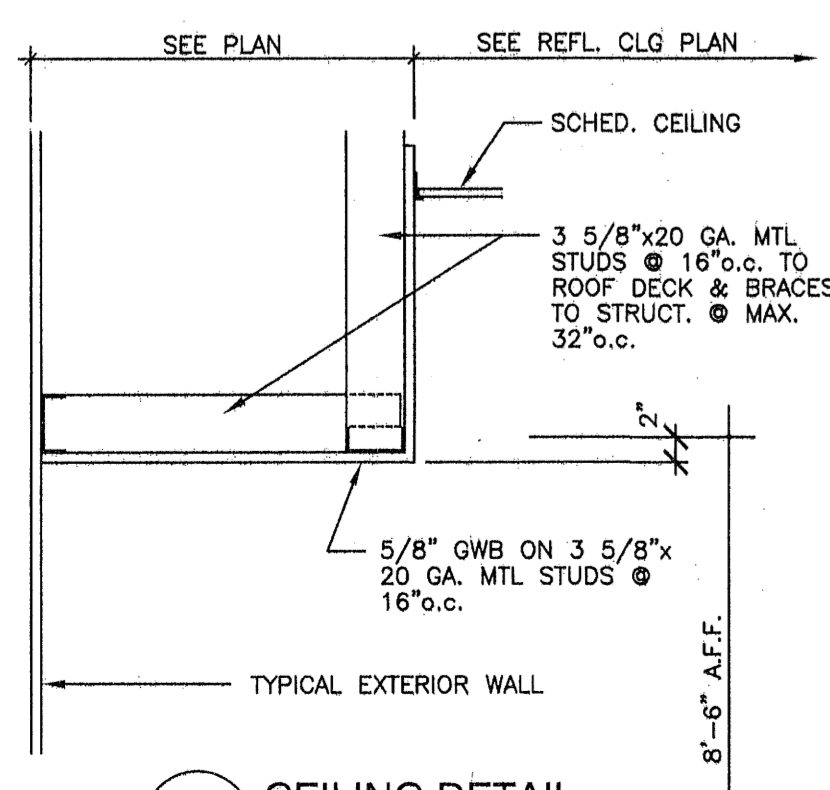
NOTE:
 1. FIRE RATED DOORS TO INCLUDE SIMILAR RATING FOR FRAMES, HARDWARE, CLOSERS & OTHER RATED ACCESSORIES.
 2. ALL WOOD DOORS ARE SOLID CORE, UNLESS NOTED OTHERWISE.

NOTE:
 GENERAL CONTRACTOR IS RESPONSIBLE FOR ROUGH-INS FOR ALL BANK EQUIPMENT. COORDINATION OF DELIVERY AND INSTALLATION OF ALL BANK EQUIPMENT BY OTHERS TO MEET PROJECT SCHEDULE, AND ARCHITECTURAL FINISHES AND TRIM FOR ALL BANK EQUIPMENT.

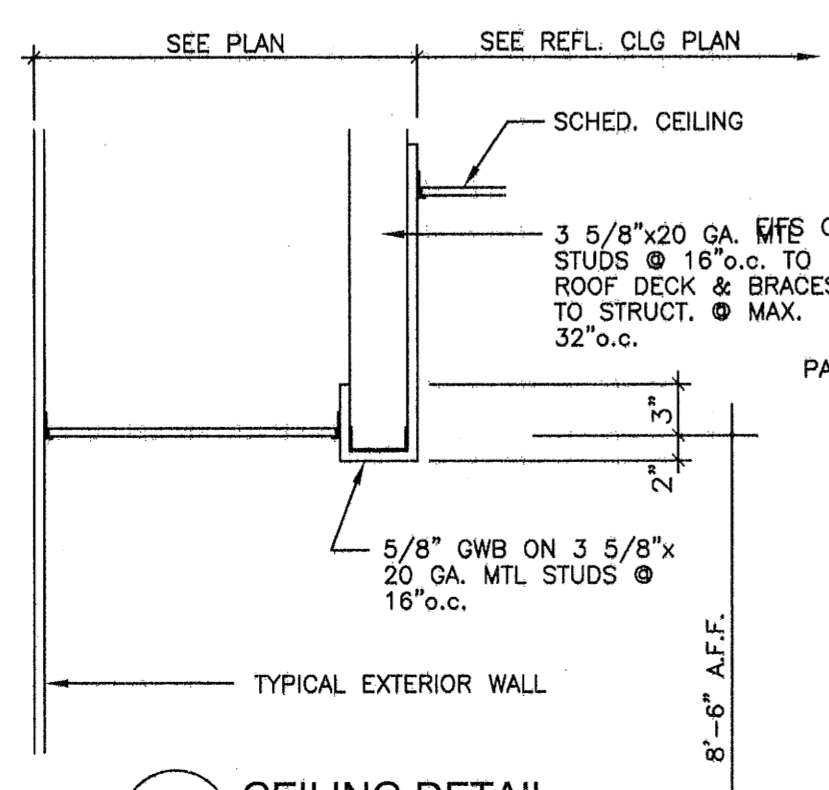
- CLG. LEGEND**
- 1 SATC
 - 2 GWB
 - 3 EIFS
 - 4 ALUCOBOND



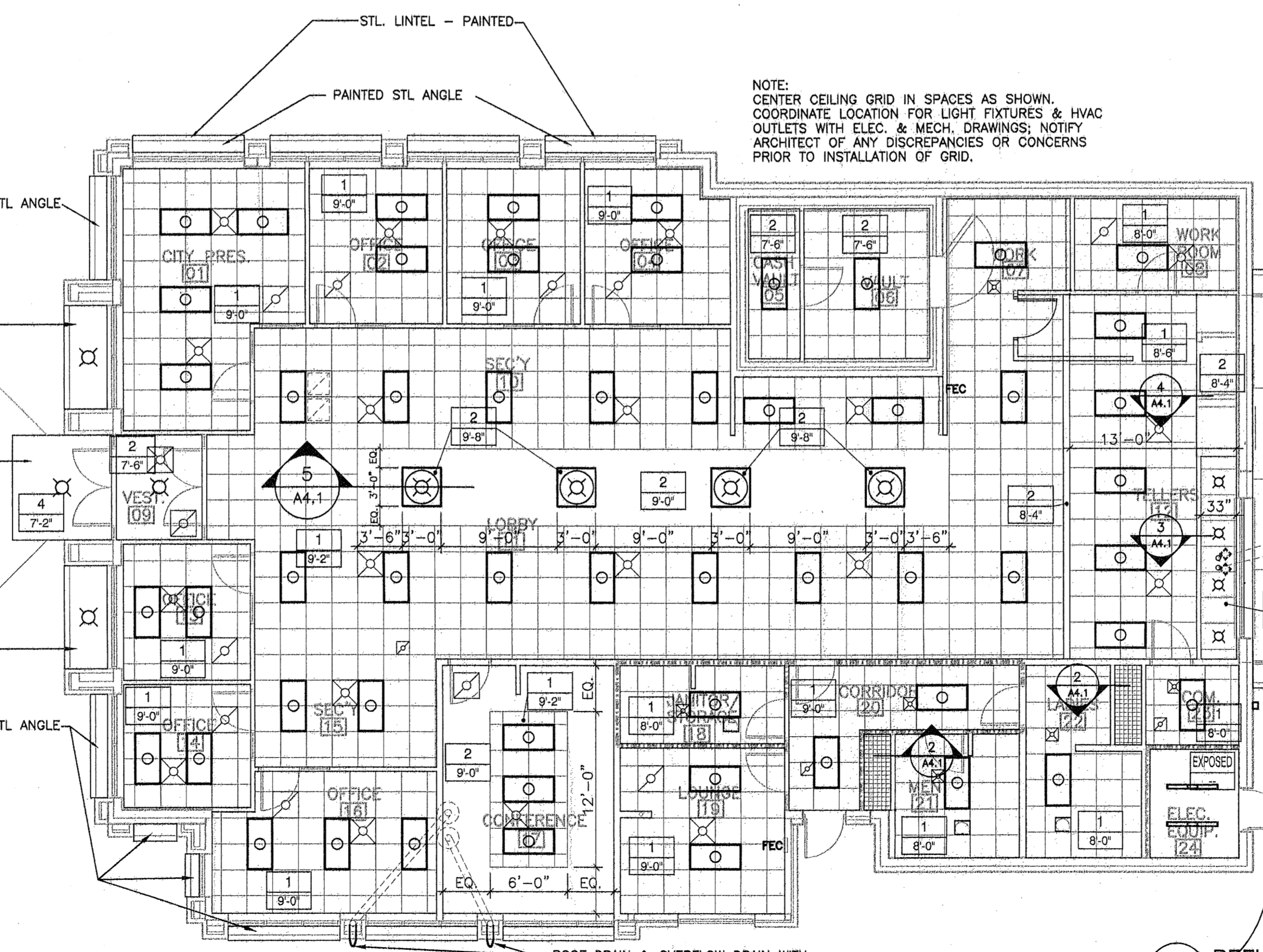
5 CEILING DETAIL
1" = 1'-0"



4 CEILING DETAIL
1" = 1'-0"



3 CEILING DETAIL
1" = 1'-0"



1 REFLECTED CEILING PLAN
1/8" = 1'-0"

2 CEILING DETAIL
1" = 1'-0"

NOTE:
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NOTE:
 CENTER CEILING GRID IN SPACES AS SHOWN. COORDINATE LOCATION FOR LIGHT FIXTURES & HVAC OUTLETS WITH ELEC. & MECH. DRAWINGS; NOTIFY ARCHITECT OF ANY DISCREPANCIES OR CONCERNS PRIOR TO INSTALLATION OF GRID.

CANOPY SOFFIT FINISH = EIFS FINISH ON 1 1/2" (MINIMUM) RIGID INSULATION BOARD ON 1/2" GYP. SHEATHING ON 3/4" HAT SECTIONS @ 24" o.c. ON 1 1/2" FURRING CHANNELS @ 48" o.c.

42"x42" METAL ACCESS PANEL SIM. TO DSC-214M BY KARP ASSOC. (800/888-4212) W/ SCREW DRIVER OPERATED STAINLESS STEEL CAM; 2 REQ'D & COORD. EXACT LOCATION W/ BANK EQUIP. SUPPLIER. PAINT TO MATCH EIFS FINISH COLOR

BANK EQUIPMENT - CONFIRM EXACT LOCATION WITH EQUIP. SUPPLIER

8" WIDE METAL SOFFIT VENT - PAINT TO MATCH EIFS FIN. COLOR

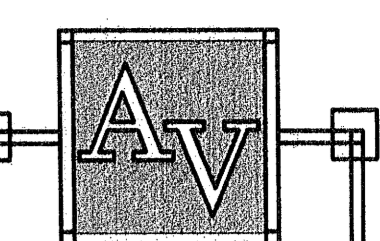
EIFS CONTROL JOINT

BRICK STL LINTEL PAINT TO MATCH EIFS COLOR

ROOF DRAIN & OVERFLOW DRAIN WITH 6" PVC LEADER & DOWNSPOUT. LOCATE DOWNSPOUT IN COLUMN FURRING. CONNECT TO WALL OUTLET AT FACE OF BRICK

WALL NOZZLE EQUAL TO JOSAM BRONZE WALL NOZZLE (TYP.)

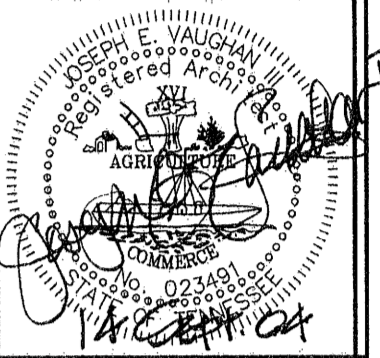
LIGHT FIXTURE PROVIDED & INSTALLED BY BANK EQUIP. SUPPLIER, ROUGH-IN BY G.C. COOR.



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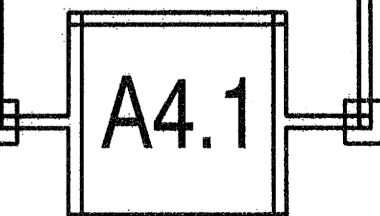
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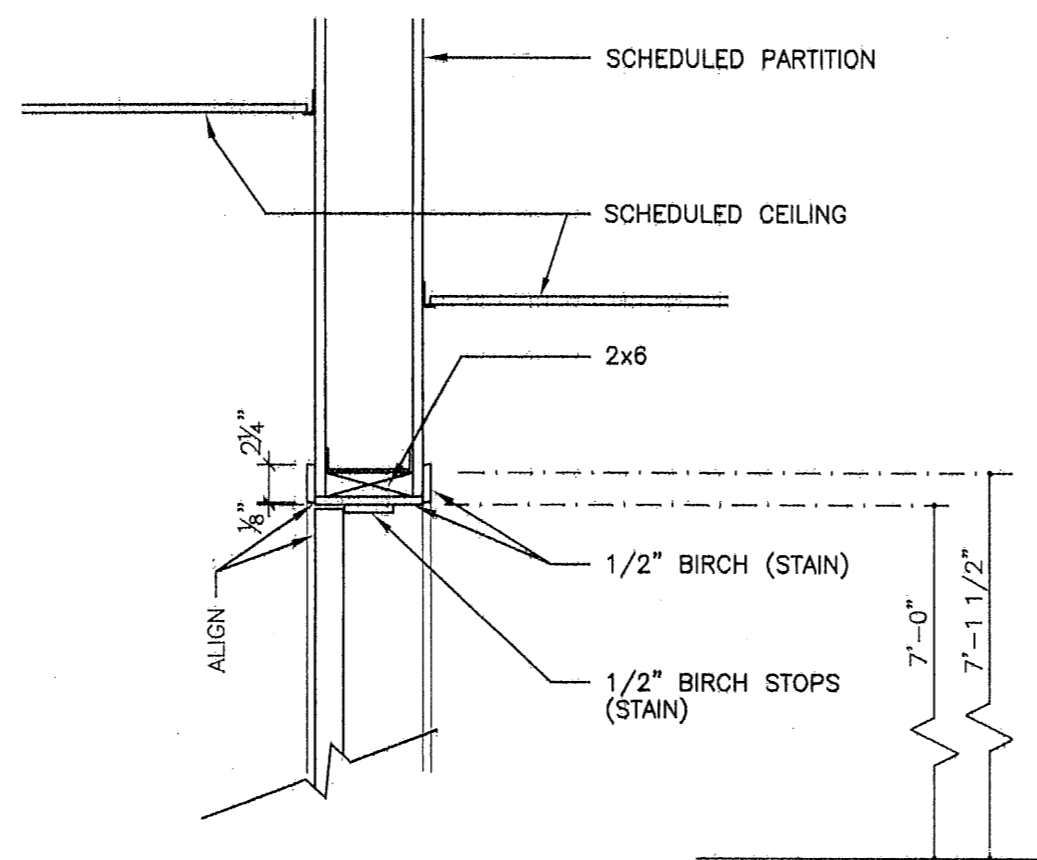


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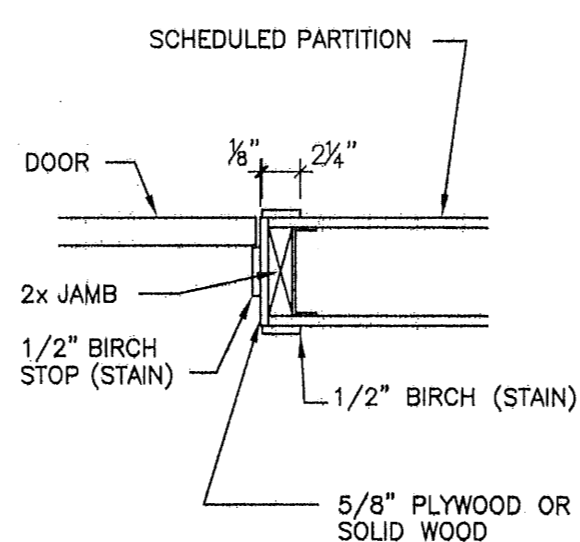
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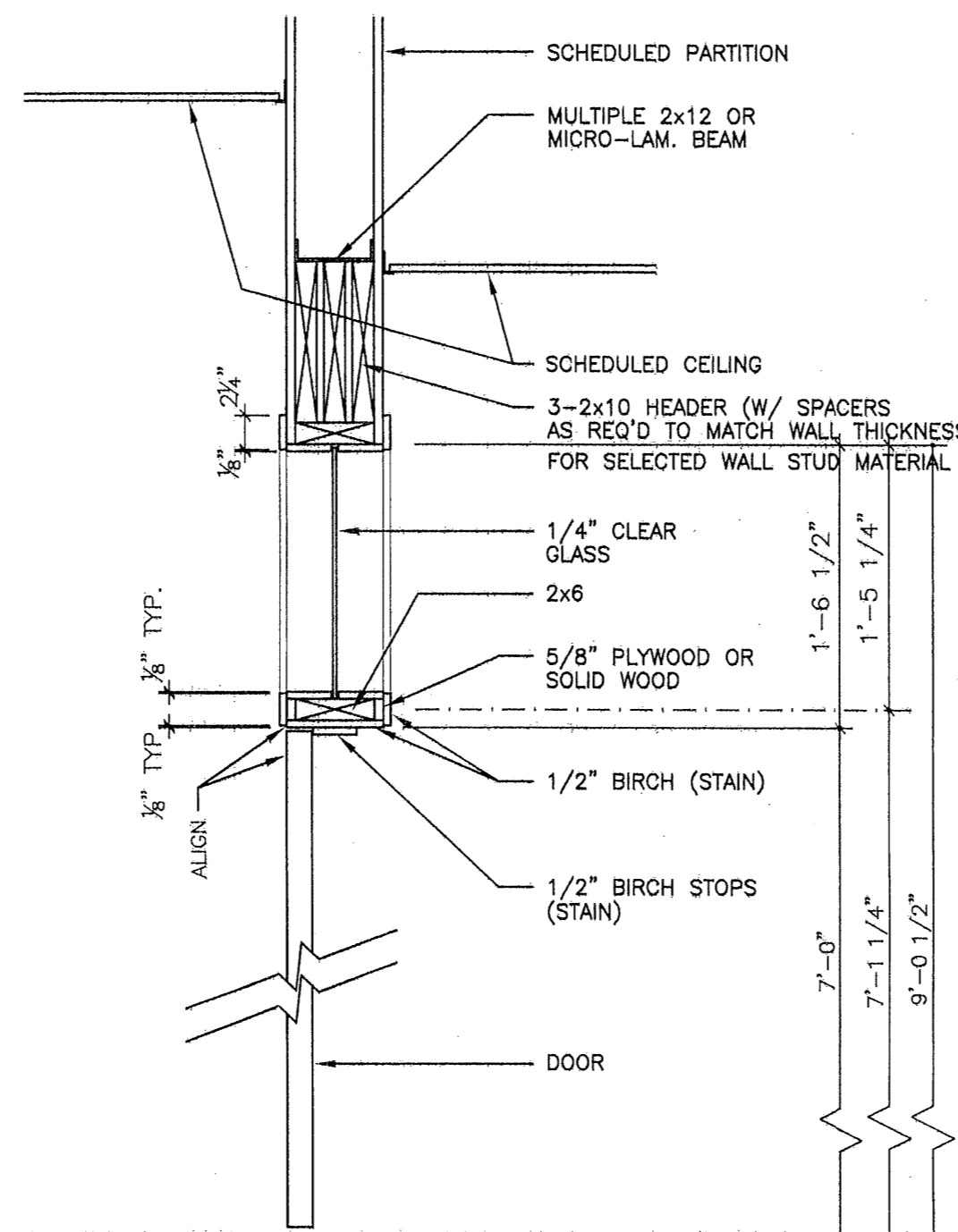
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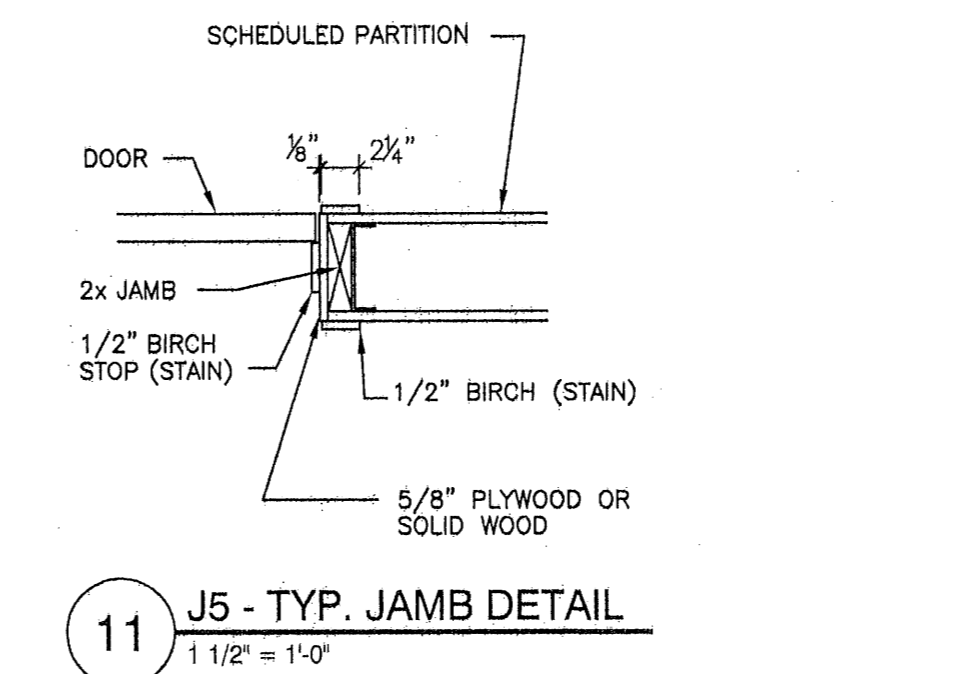
14 H6 - HEAD DETAIL
1 1/2" = 1'-0"



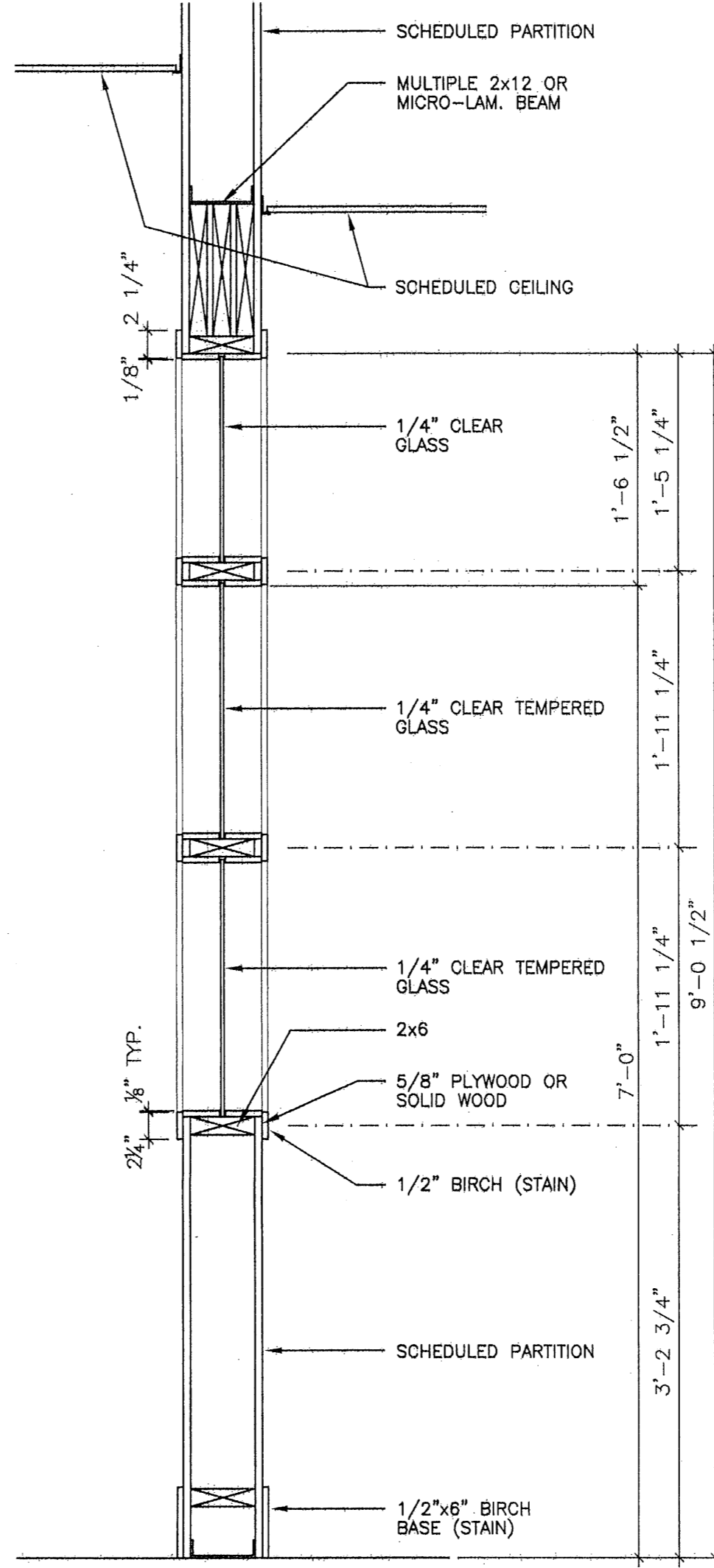
13 J6 - JAMB DETAIL
1 1/2" = 1'-0"



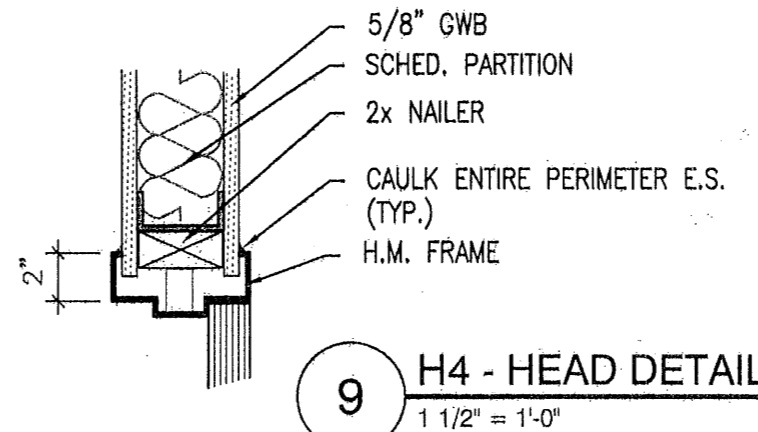
12 H5 - TYP. SECTION @ DOOR TRANSOM
1 1/2" = 1'-0"



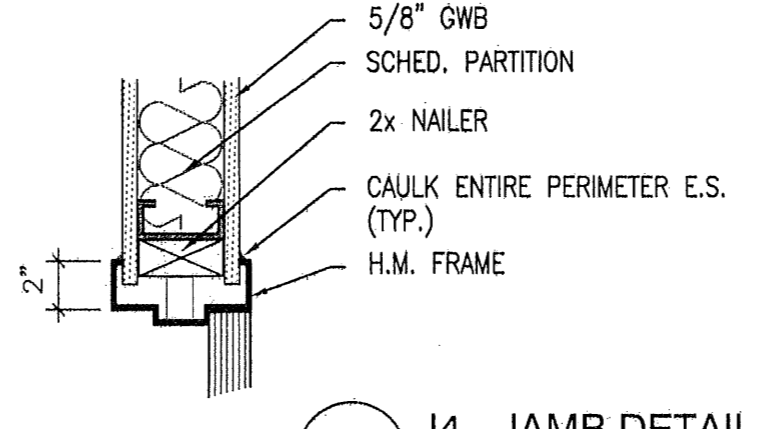
11 J5 - TYP. JAMB DETAIL
1 1/2" = 1'-0"



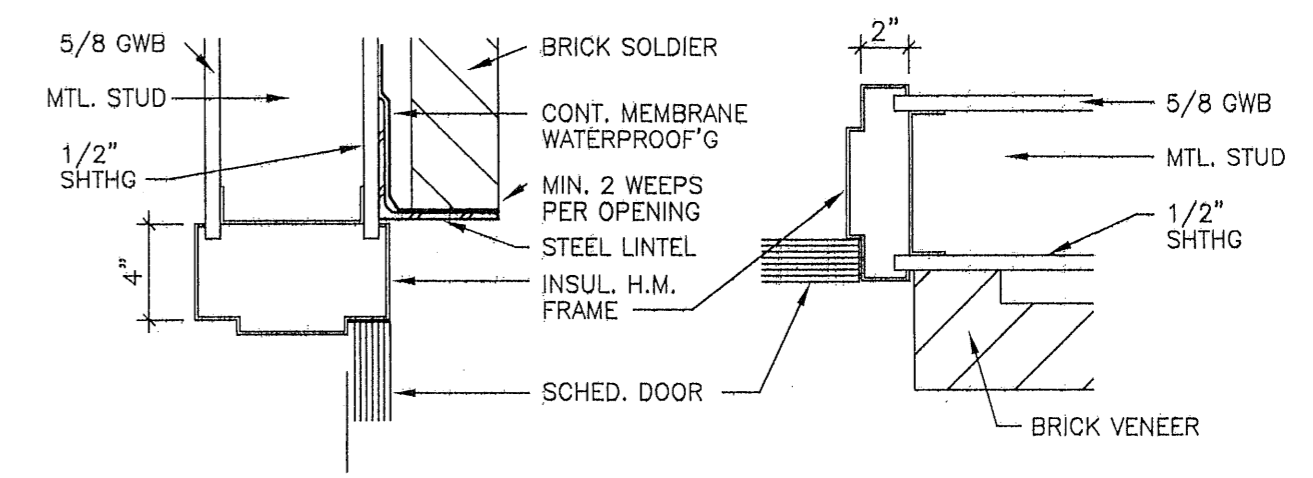
10 H5 - TYP. SECTION @ DOOR SIDELIGHT
1 1/2" = 1'-0"



9 H4 - HEAD DETAIL
1 1/2" = 1'-0"

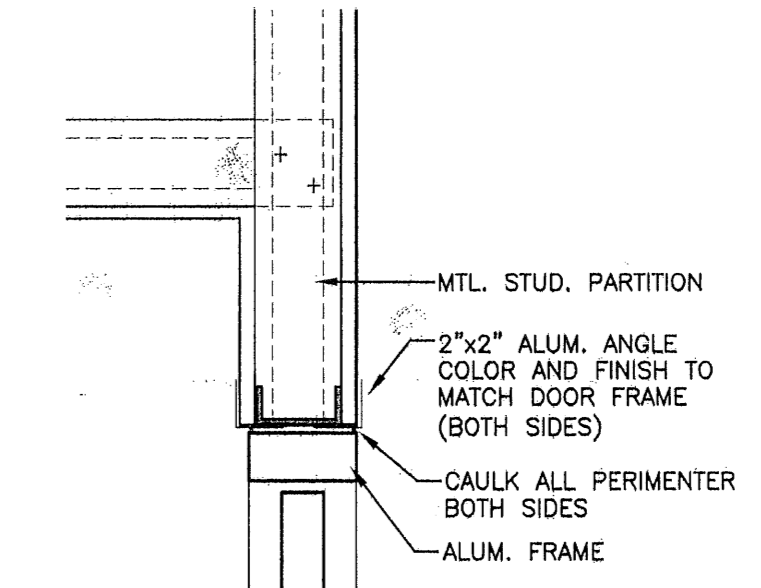


8 J4 - JAMB DETAIL
1 1/2" = 1'-0"

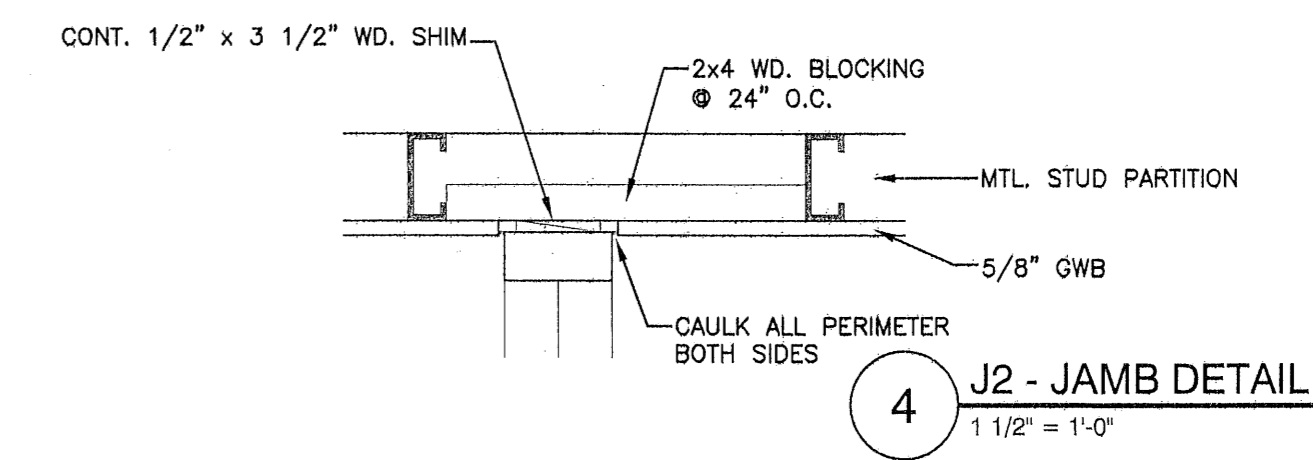


7 H3 - HEAD DETAIL
1 1/2" = 1'-0"

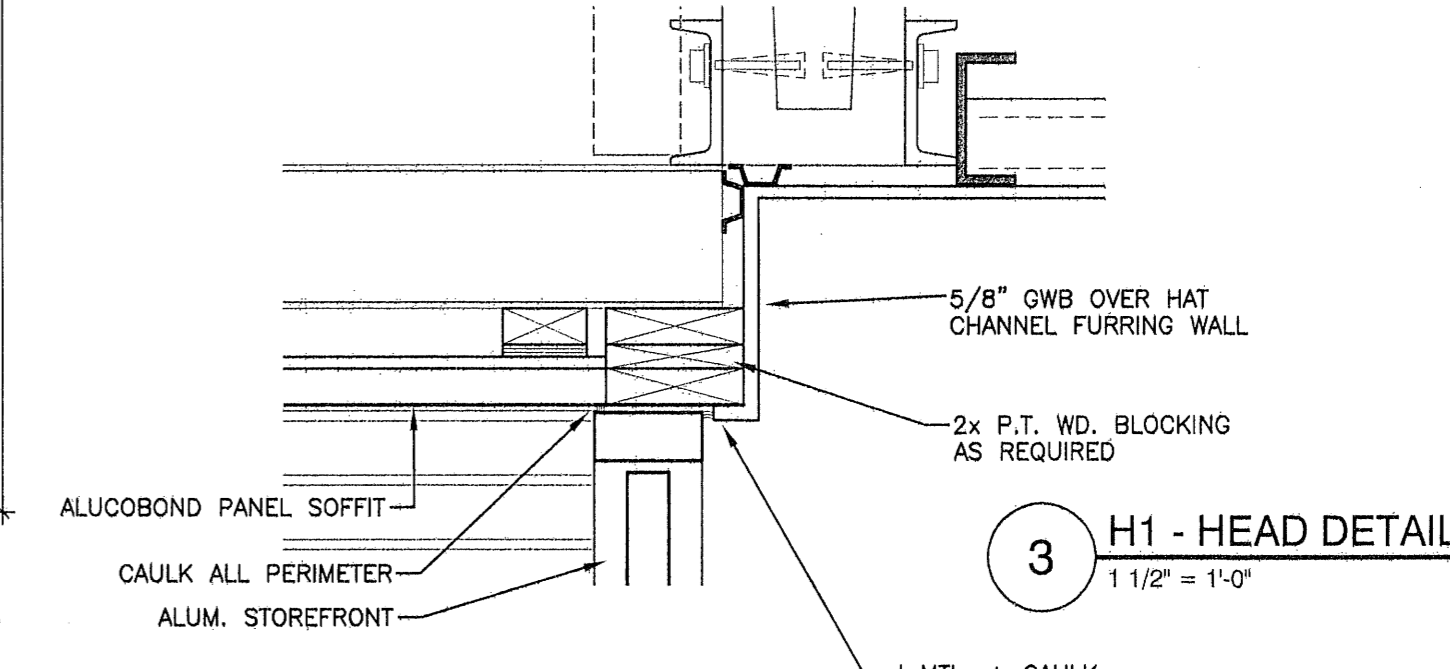
6 J3 - JAMB DETAIL
1 1/2" = 1'-0"



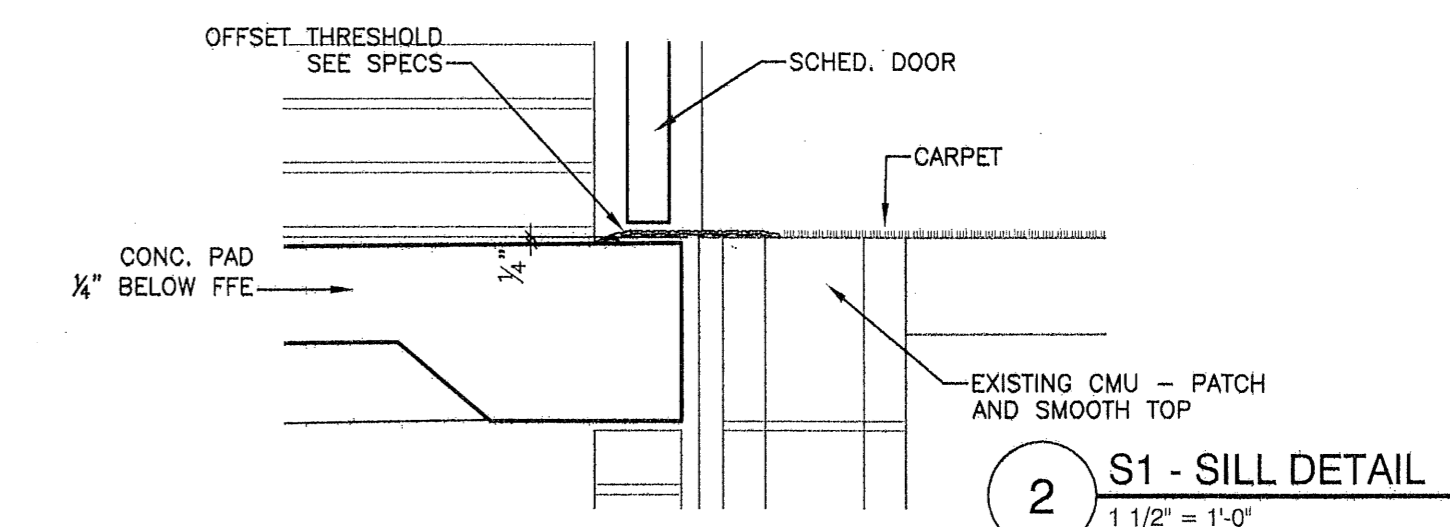
5 H2 - HEAD DETAIL
1 1/2" = 1'-0"



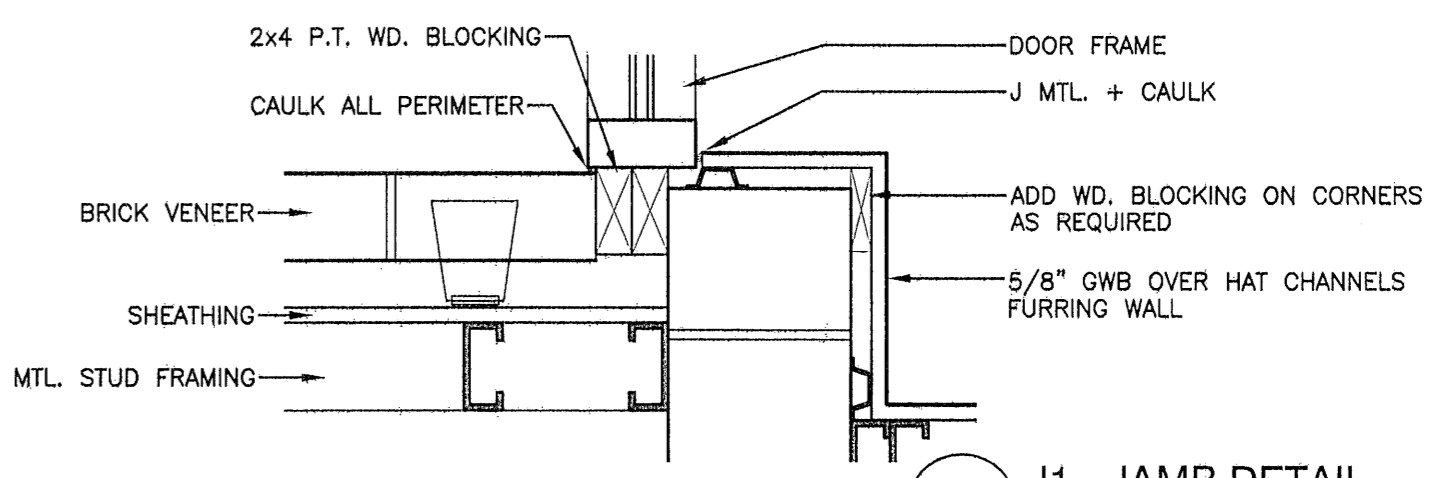
4 J2 - JAMB DETAIL
1 1/2" = 1'-0"



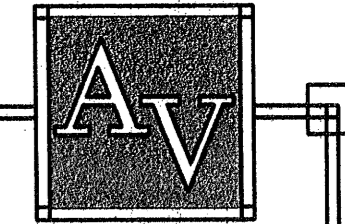
3 H1 - HEAD DETAIL
1 1/2" = 1'-0"



2 S1 - SILL DETAIL
1 1/2" = 1'-0"



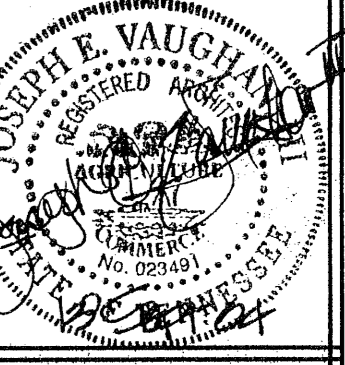
1 J1 - JAMB DETAIL
1 1/2" = 1'-0"



ANDERSON VAUGHAN ARCHITECTS, INC.

620 OLD HICKORY BLVD.
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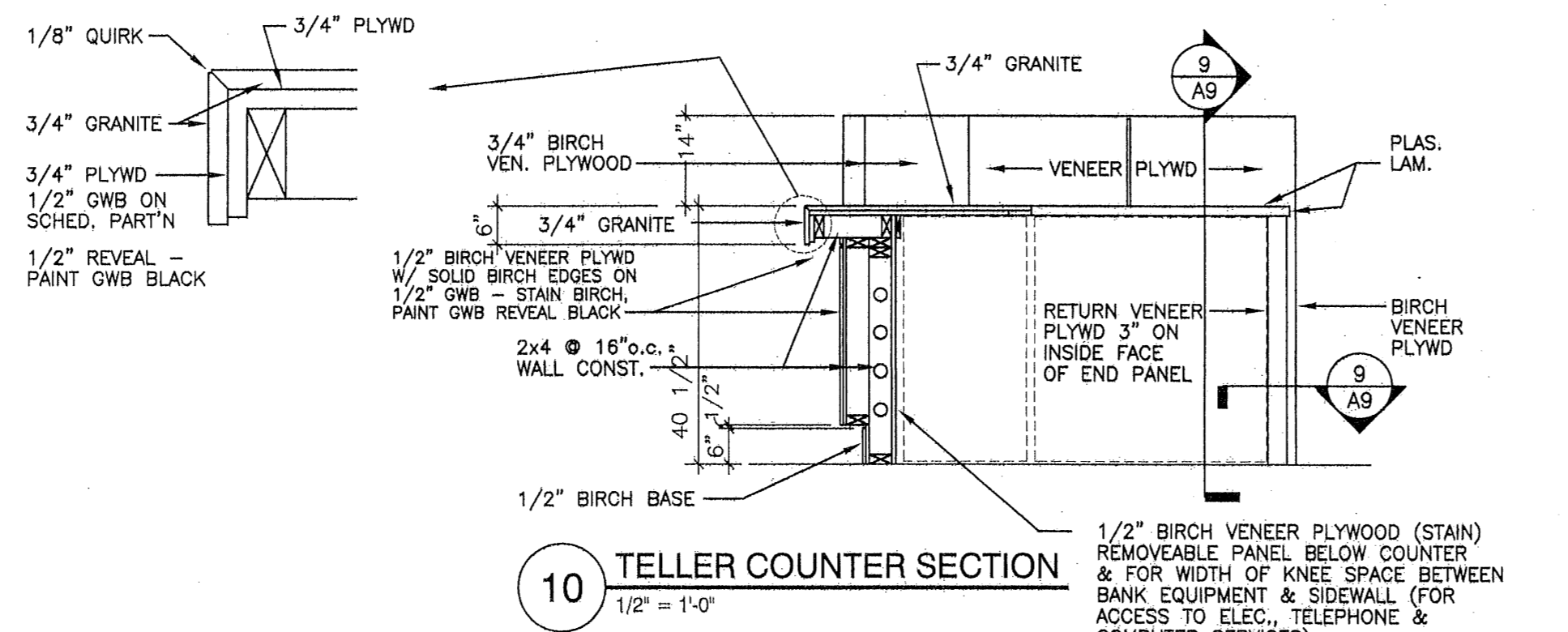


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6482 POPLAR AVENUE
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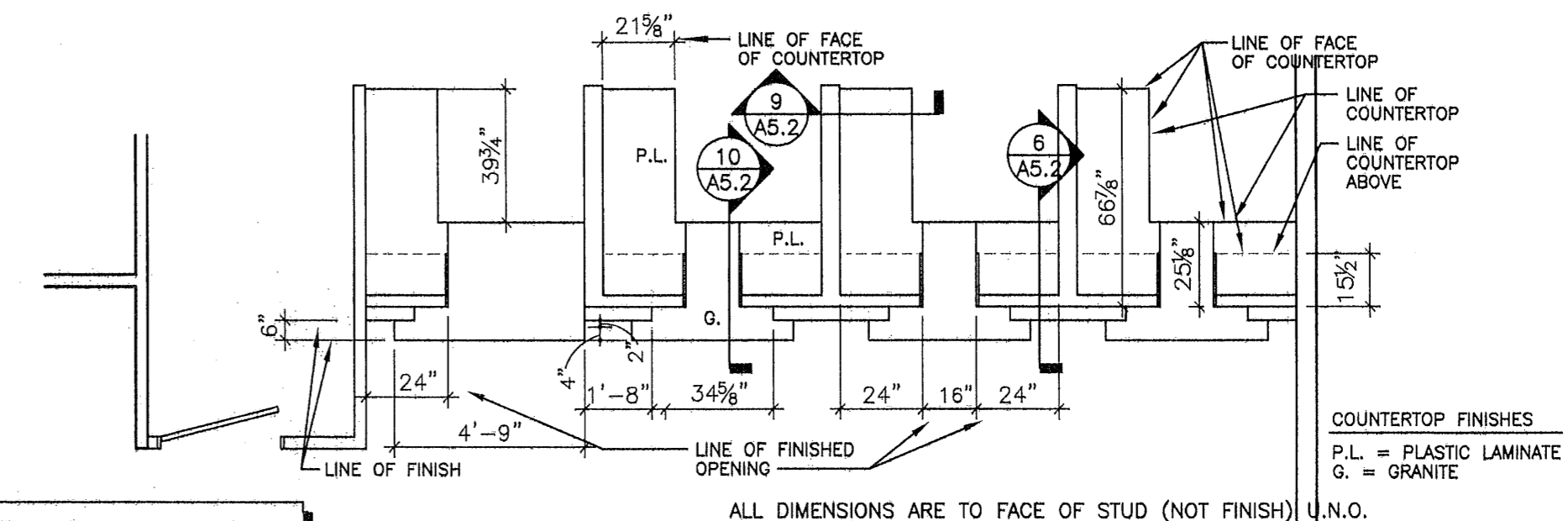
A4.2

NOTE:
GENERAL CONTRACTOR IS RESPONSIBLE FOR ROUGH-INS FOR ALL BANK EQUIPMENT, COORDINATION OF DELIVERY AND INSTALLATION OF ALL BANK EQUIPMENT BY OTHERS TO MEET PROJECT SCHEDULE, AND ARCHITECTURAL FINISHES AND TRIM FOR ALL BANK EQUIPMENT.



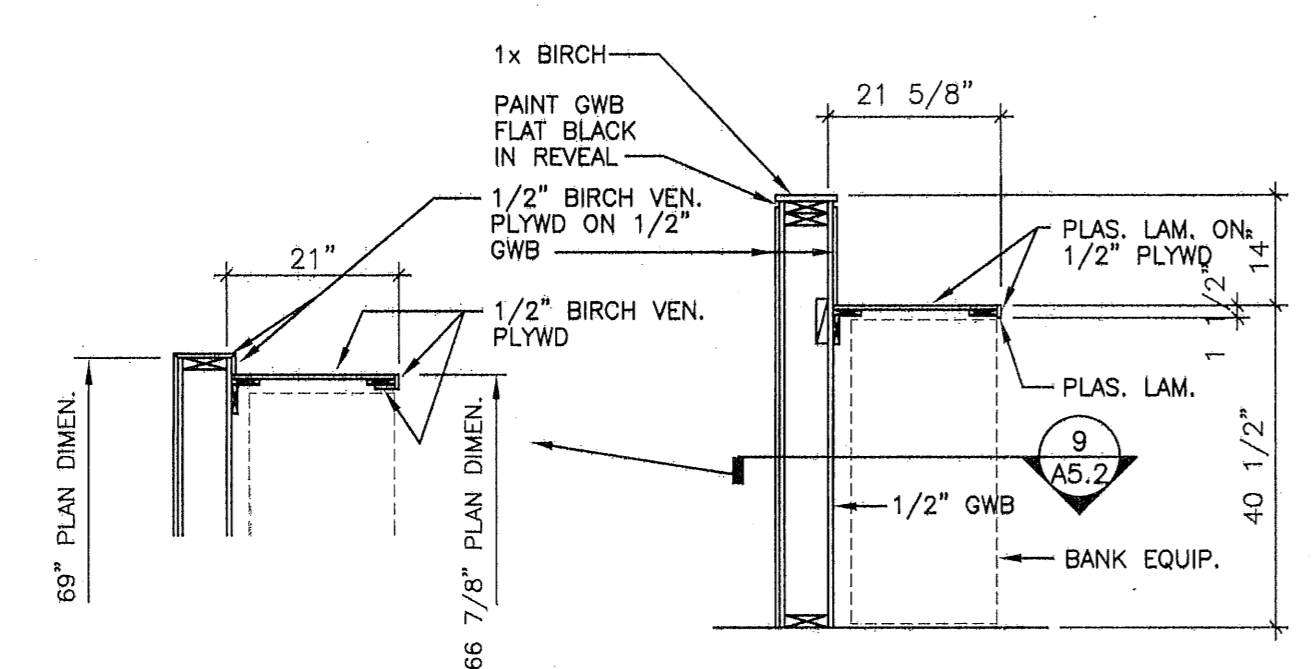
10 TELLER COUNTER SECTION
1/2" = 1'-0"

1/2" BIRCH VENEER PLYWOOD (STAIN) REMOVEABLE PANEL BELOW COUNTER & FOR WIDTH OF KNEE SPACE BETWEEN BANK EQUIPMENT & SIDEWALL (FOR ACCESS TO ELEC., TELEPHONE & COMPUTER SERVICES)
G.C. COORD. # & SIZE OF POWER SERVICE HOLES IN WALL STUDS W/ EQUIP. SUPPLIERS, ALIGN HOLES THROUGH LENGTH OF FRONT WALL, & SIDEWALL AS REQUIRED.

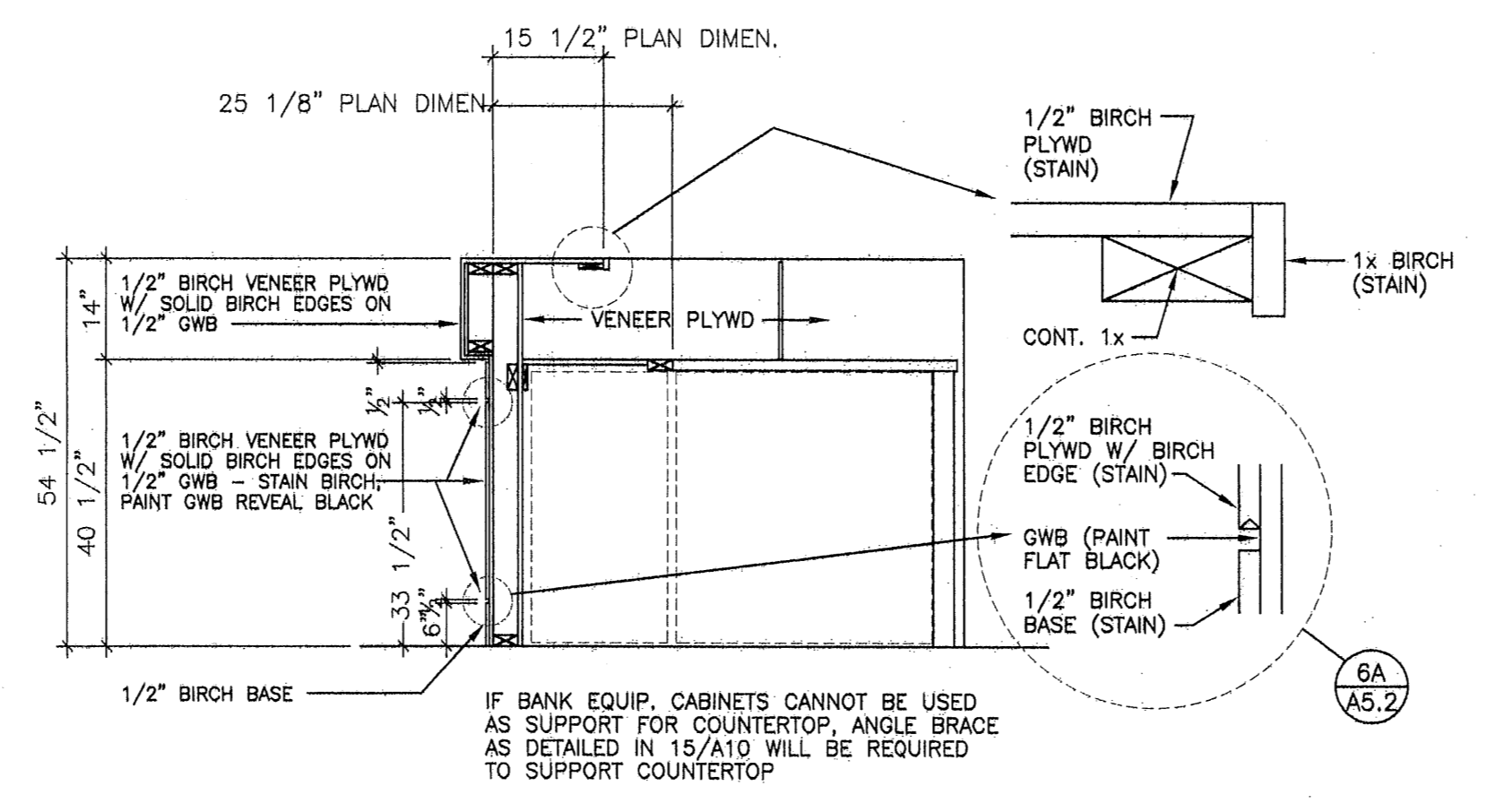


3 TELLER COUNTER WALL PLAN
1/4" = 1'-0" ABOVE COUNTER

GRANITE EQUAL TO Formica Stone NATURAL QUARTZ SURFACING, NOCE BROWN, #9043
PLASTIC LAMINATE = FORMICA, #299-58 EBONY OXIDE. SLATE FINISH

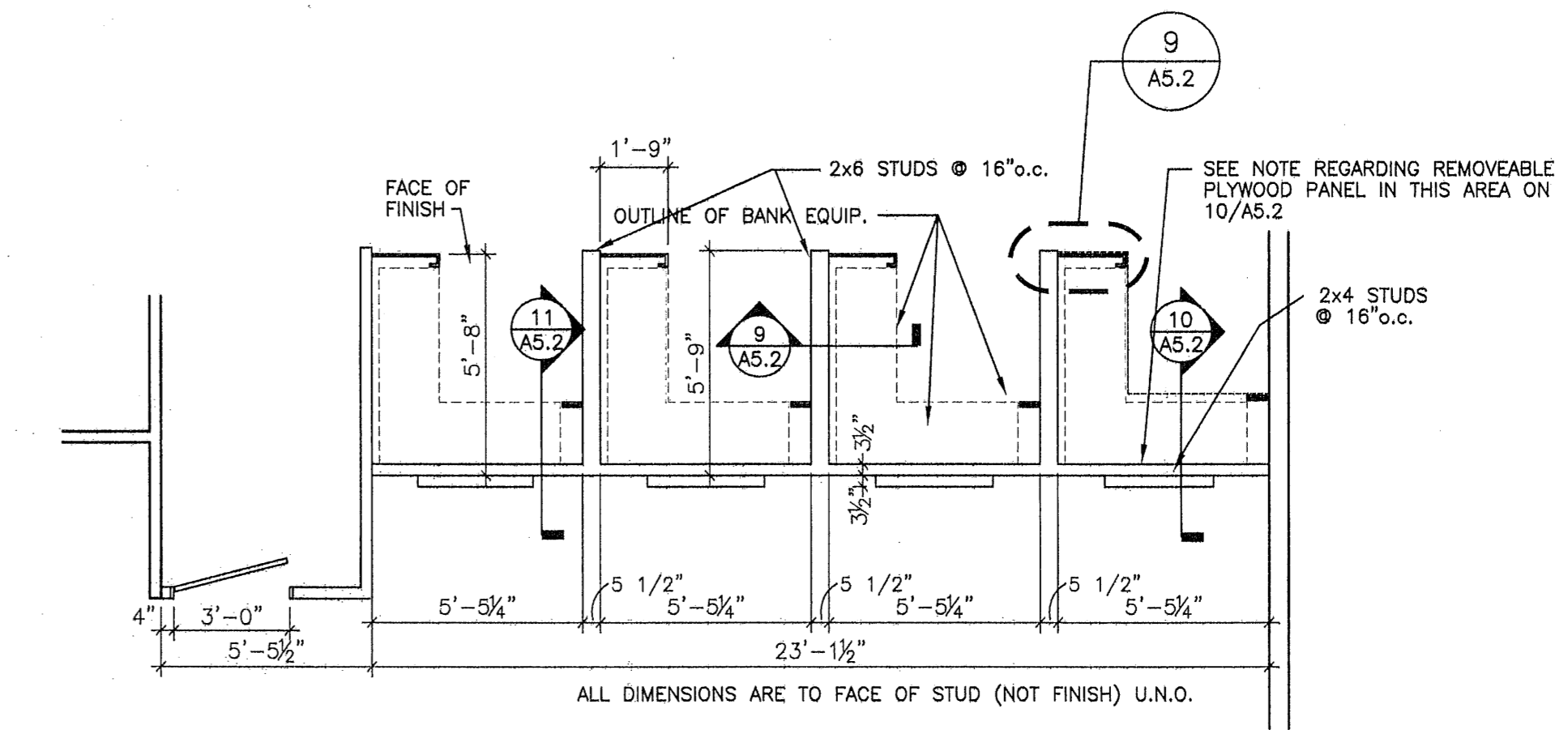


9 TELLER COUNTER SECTION
1/2" = 1'-0"

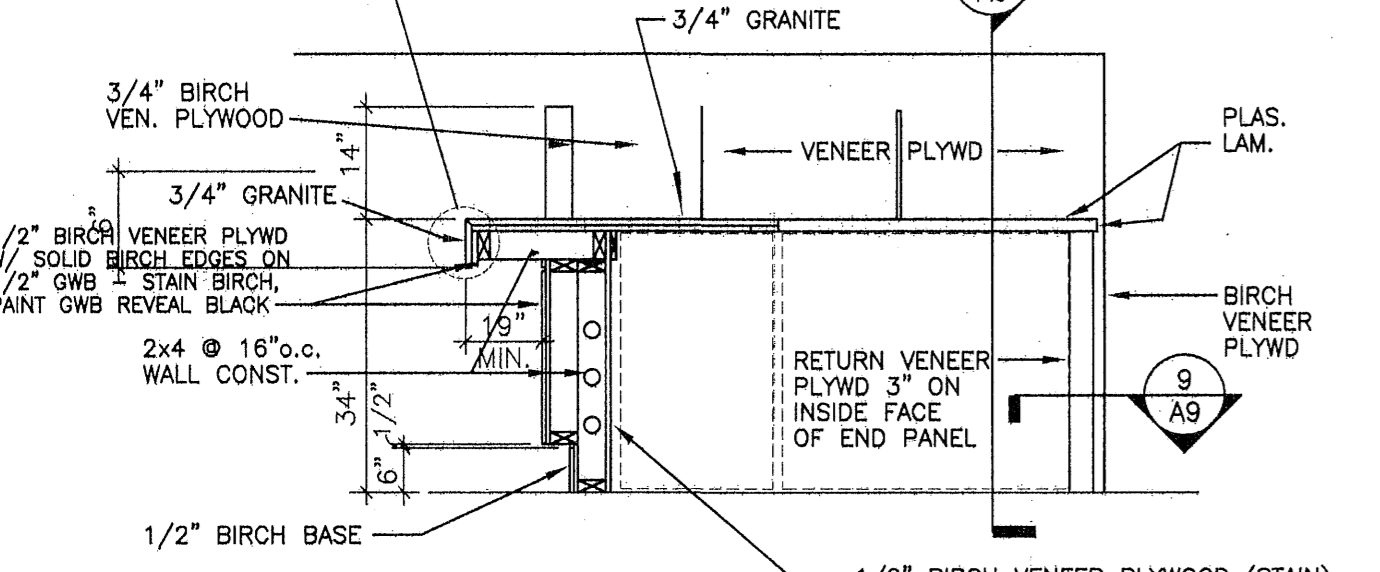
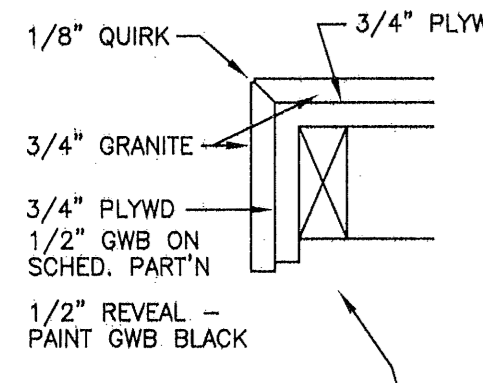


6 TELLER COUNTER SECTION
1/2" = 1'-0"

IF BANK EQUIP. CABINETS CANNOT BE USED AS SUPPORT FOR COUNTERTOP, ANGLE BRACE AS DETAILED IN 15/A10 WILL BE REQUIRED TO SUPPORT COUNTERTOP

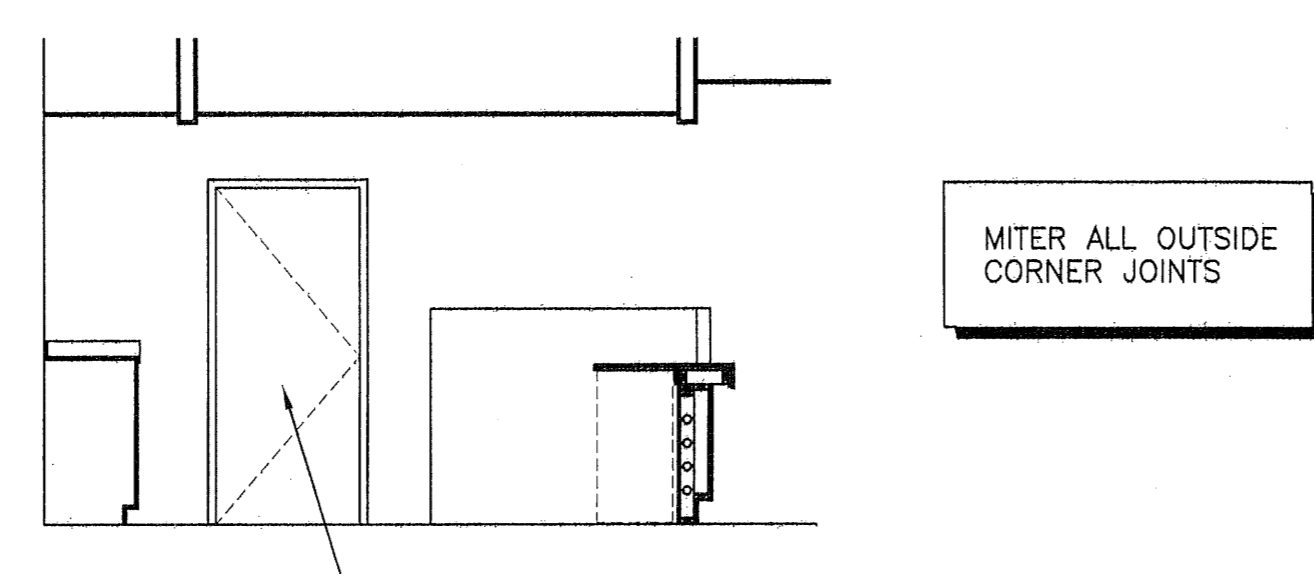


2 TELLER COUNTER WALL PLAN
1/4" = 1'-0" BELOW COUNTER

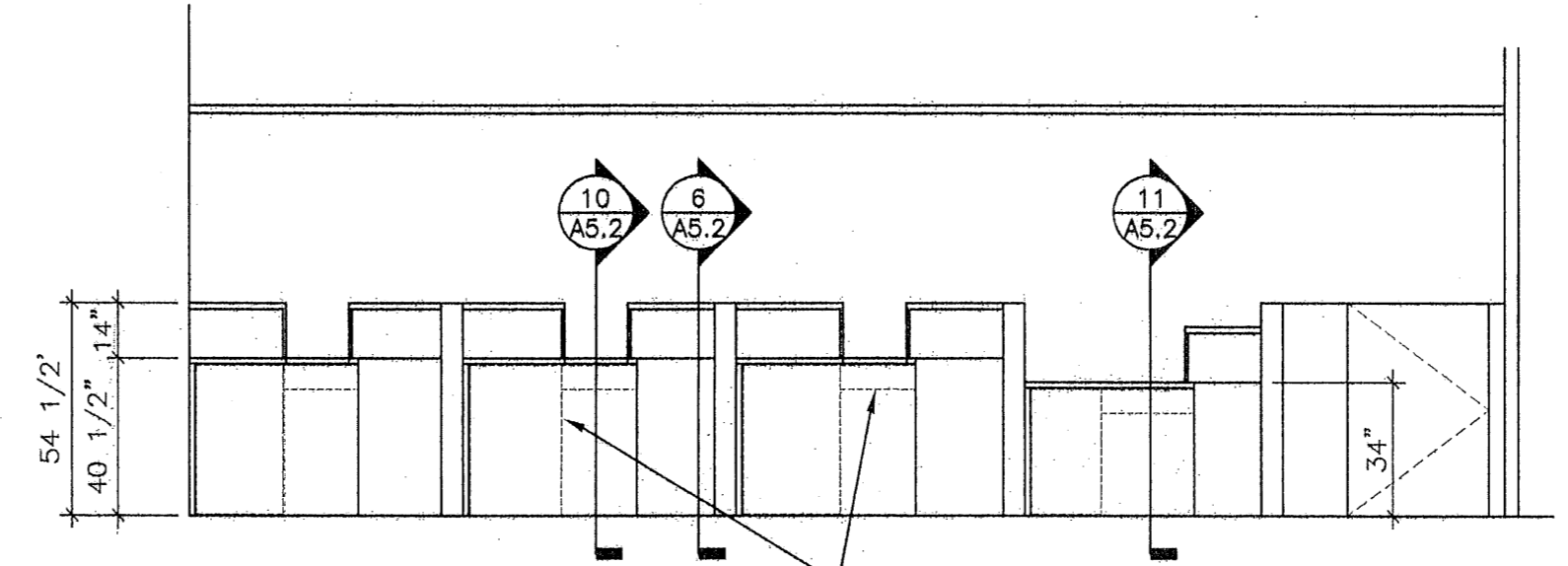


11 HC TELLER COUNTER SECTION
1/2" = 1'-0"

1/2" BIRCH VENEER PLYWOOD (STAIN) REMOVEABLE PANEL BELOW COUNTER & FOR WIDTH OF KNEE SPACE BETWEEN BANK EQUIPMENT & SIDEWALL (FOR ACCESS TO ELEC., TELEPHONE & COMPUTER SERVICES) G.C. COORD. # & SIZE OF POWER SERVICE HOLES IN WALL STUDS W/ EQUIP. SUPPLIERS, ALIGN HOLES THROUGH LENGTH OF FRONT WALL, & SIDEWALL AS REQUIRED.

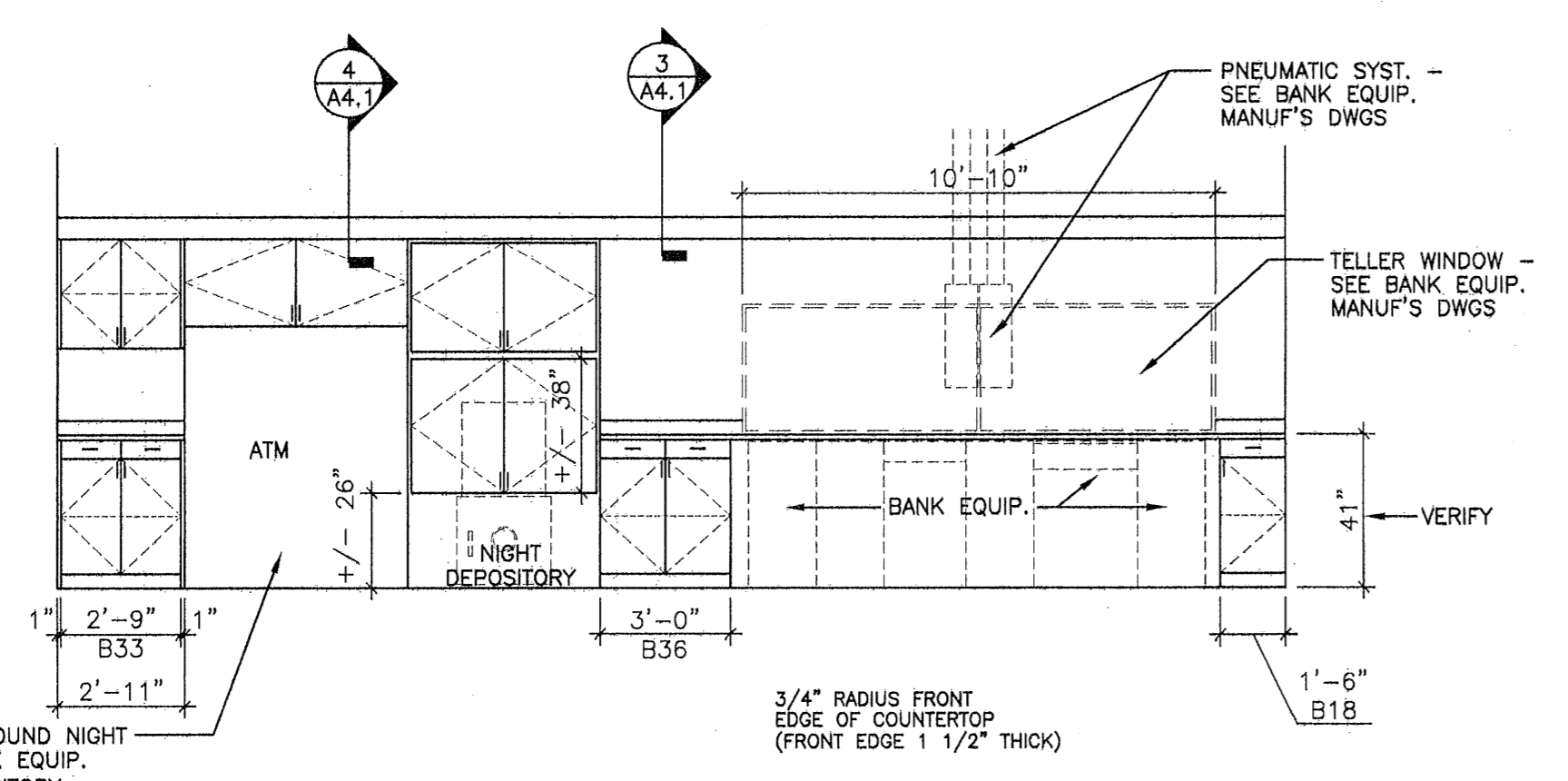


8 TELLERS 115
1/4" = 1'-0"



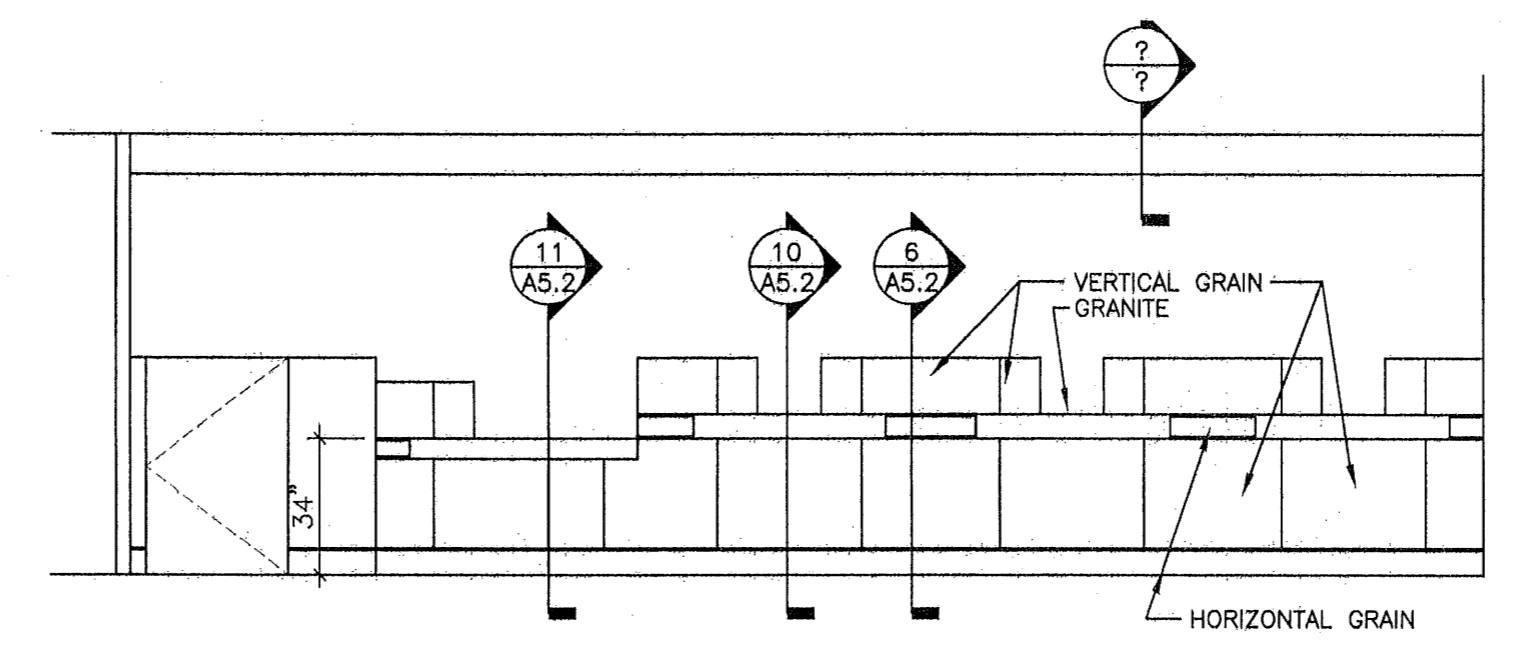
5 TELLER COUNTER BACK ELEV.
1/4" = 1'-0"

DASHED LINES = BANK EQUIPMENT - SEE BANK EQUIPMENT DRAWINGS

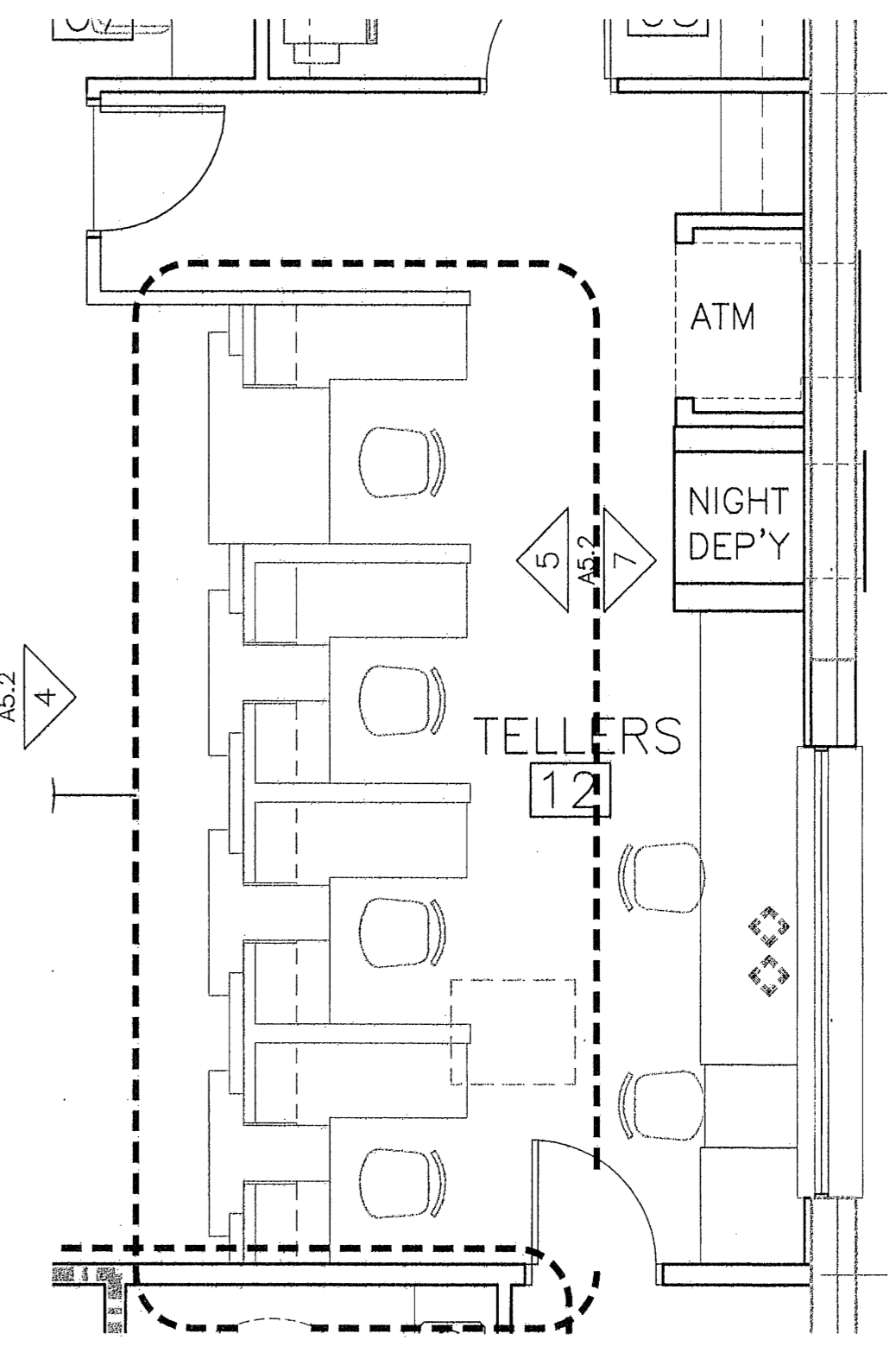


7 DRIVE-UP WINDOW INTERIOR ELEV.
1/4" = 1'-0"

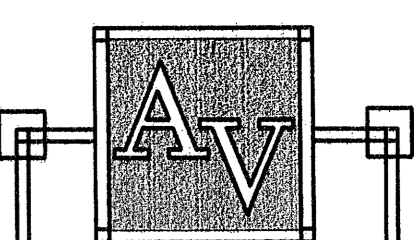
PLAS. LAM. FACED CASEWORK AROUND NIGHT DEPOSITORY AND ATM - SEE BANK EQUIP. MANUF'S DWGS FOR NIGHT DEPOSITORY DIMENSIONS & INSURE THAT TOP OF CASE ENCLOSES POWER OUTLETS ON WALL



4 TELLER COUNTER FRONT ELEV.
1/4" = 1'-0"



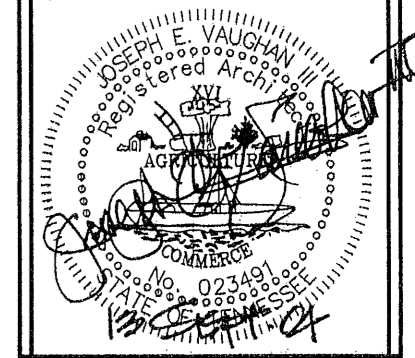
1 ENLARGED FLOOR PLAN
1/4" = 1'-0"



ANDERSON VAUGHAN ARCHITECTS, INC.

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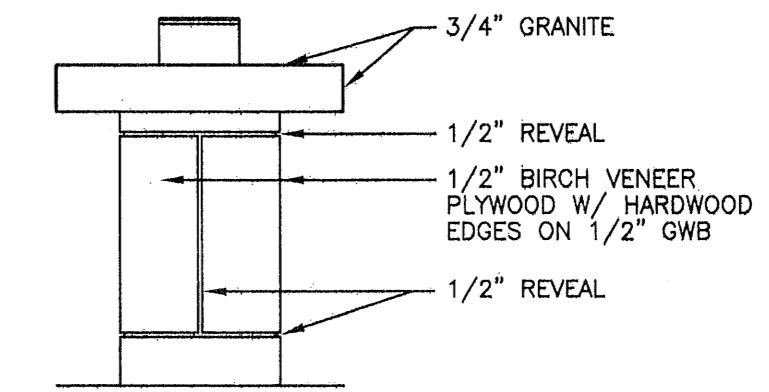
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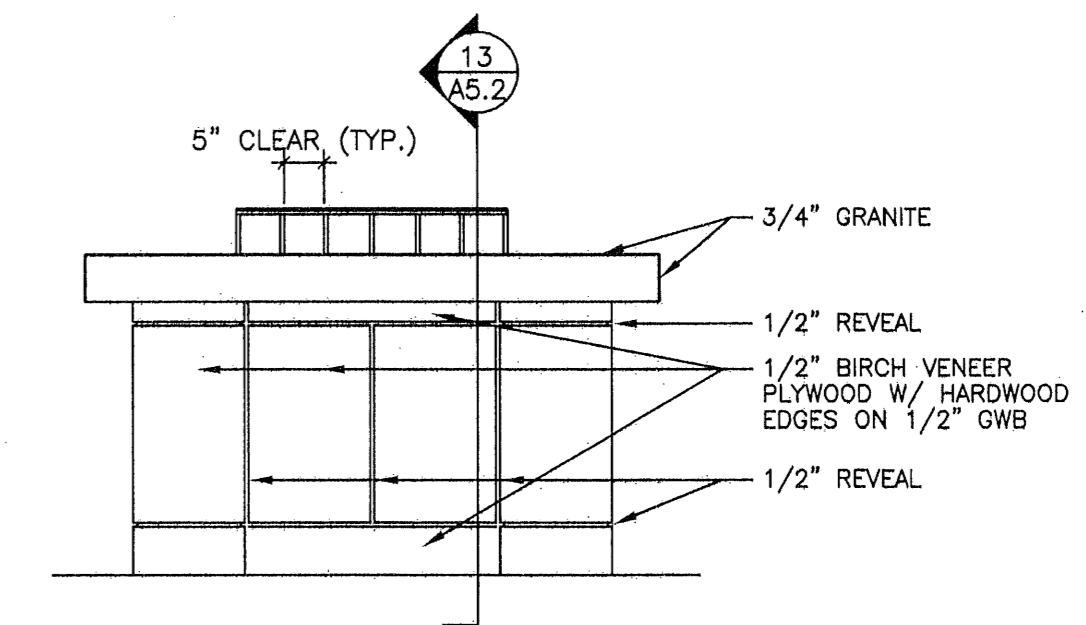
A5.2



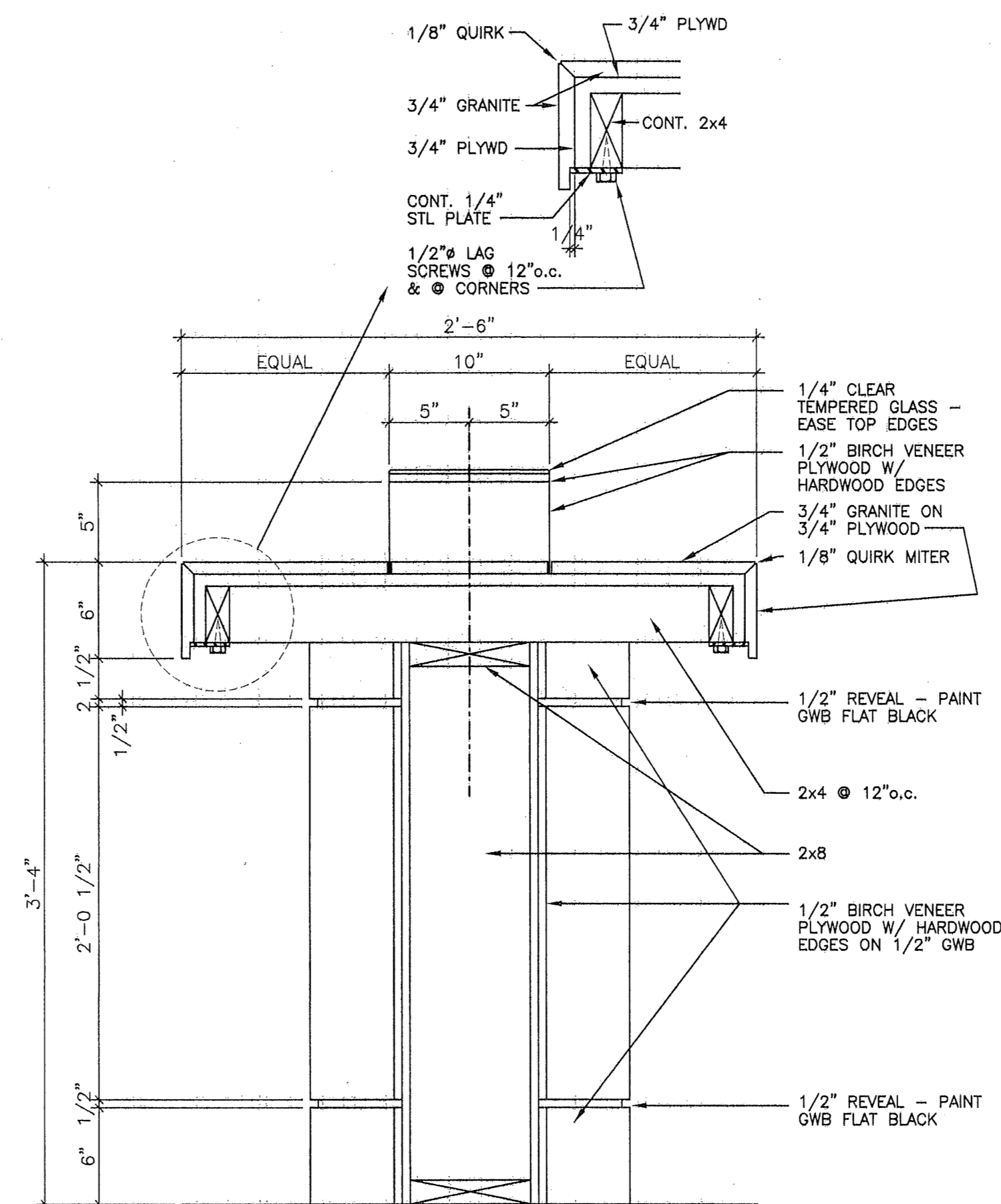
4 TYP. END ELEVATION CHECK WRITING STAND
1/2" = 1'-0"

GRANITE EQUAL TO Formica Stone
NATURAL QUARTZ SURFACING,
NOSE BROWN, #9043
PLASTIC LAMINATE = FORMICA,
#299-58 EBONY OXIDE, SLATE
FINISH

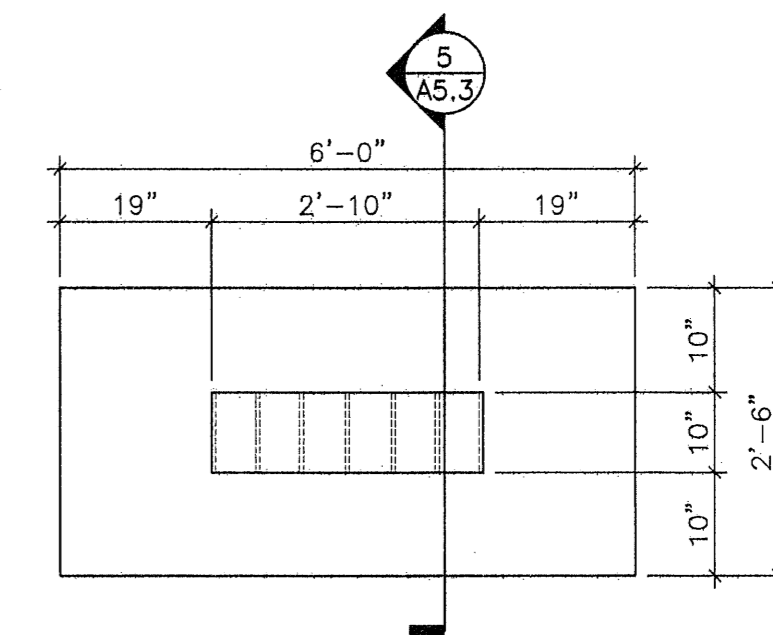
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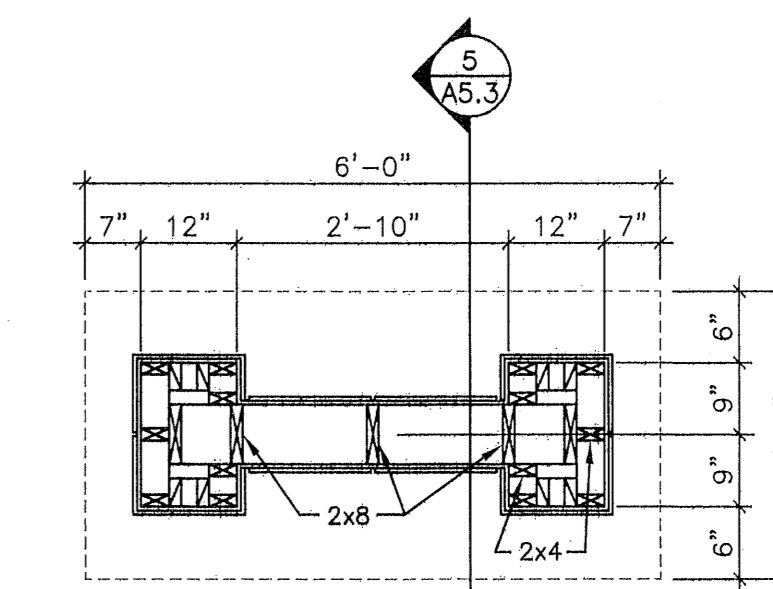
3 TYP. FRONT/BACK ELEV. CHECK WRITING STAND
1/2" = 1'-0"



5 SECTION THROUGH CHECK WRITING STAND
1 1/2" = 1'-0"

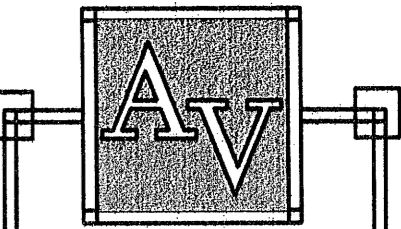


2 PLAN ABOVE COUNTER CHECK WRITING STAND
1/2" = 1'-0"



NOTE: 2 CHECK WRITING STANDS REQUIRED

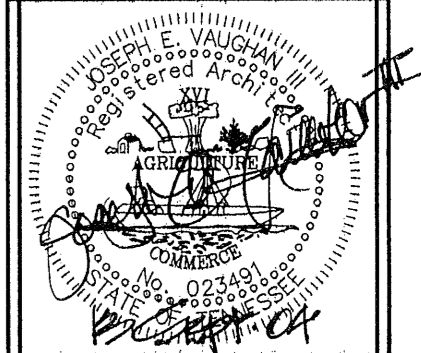
1 PLAN BELOW COUNTER CHECK WRITING STAND
1/2" = 1'-0"



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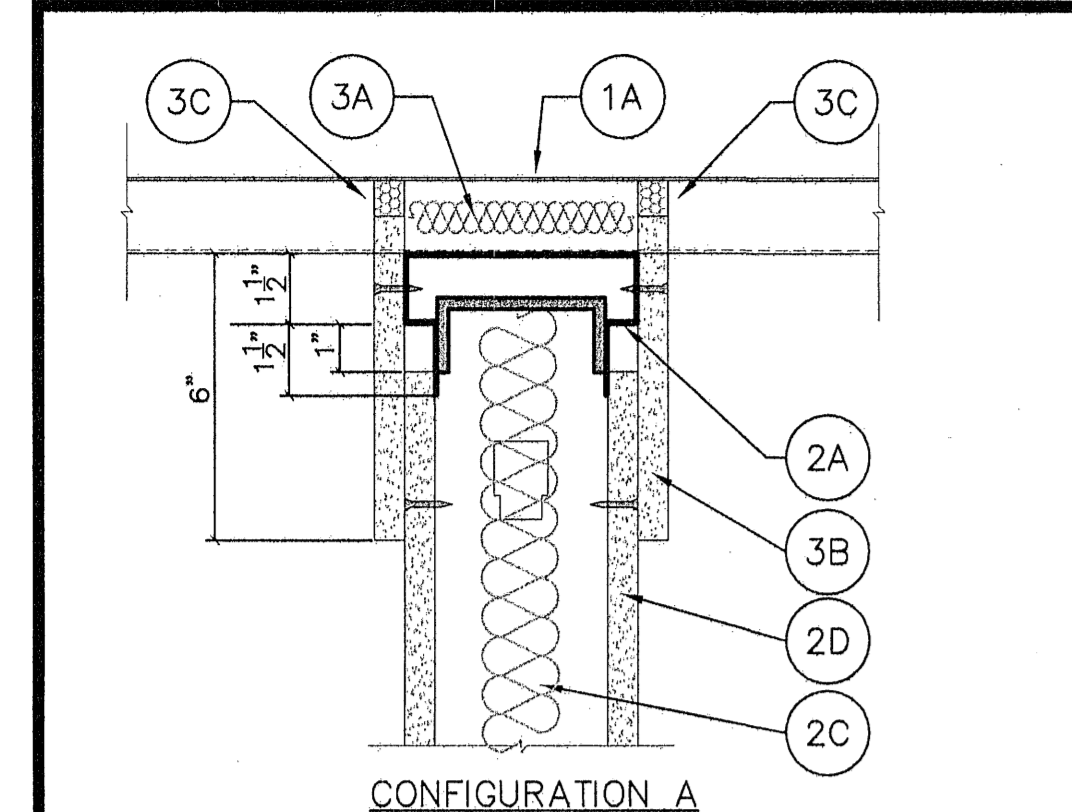
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MEMPHIS, TENNESSEE

A5.3



System No. HW-D-0060
 Assembly Rating - 1, 2 and 3 Hr (See Item 2)
 Nominal Joint Width - 1 in.
 Class II and III Movement Capabilities - 100 % Compression or Extension

1. Floor Assembly - The fire-rated fluted steel deck/concrete floor assembly shall be constructed of the materials and in the manner described in the Individual Floor-Ceiling Design in the UL Fire Resistance Directory. The hourly fire rating of the floor assembly shall be equal to or greater than the hourly fire rating of the wall assembly. The floor assembly shall include the following construction features:

A. Steel Floor and Form Units* - Max 3 in. deep galv. fluted floor units.
 B. Concrete - Min 2-1/2 in. thick reinforced (M150 pcf) concrete, as measured from the top plane of the floor units.

1A. Roof Assembly - As an alternate to Item 1, the fire-rated roof assembly shall be constructed of the materials and in the manner described in the Individual P700, P800 or P900 Series Roof-Ceiling Design in the UL Fire Resistance Directory and shall contain max 3 in. deep galv steel fluted roof units. The hourly fire rating of the roof assembly shall be equal to or greater than the hourly fire rating of the wall assembly. In the case of spray-applied protection materials on the steel roof units, the joint system shall be installed prior to the spray-applied protection material.

1B. Floor Assembly - As an alternate to Item 1, min 4-1/2 in. thick reinforced lightweight or normal weight (100-150 pcf) structural concrete.

2. Wall Assembly - The 1, 2 or 3 hr fire-rated gypsum wallboard/steel stud wall assembly shall be constructed of the materials and in the manner described in the individual U400 and V400-Series Wall and Partition Design in the UL Fire Resistance Directory and shall include the following construction features:

A. Light Gauge Framing* - Deflection Trak - Deflection trak of wall assembly shall consist of min No. 25 gauge galv steel channels sized to accommodate steel studs (Item 2C) and with offset legs to accommodate wall cladding (Item 3A). Deflection trak installed parallel or perpendicular to the floor units. When installed perpendicular (Configuration A), min No. 25 gauge deflection trak secured on both sides to valley of floor units with 1-1/2 in. long welds spaced max 12 in. OC. Min No. 20 gauge deflection trak may be secured with No. 8 by 1/2 in. long steel tee screws spaced 12 in. OC. When installed parallel (Configuration B), min No. 25 gauge deflection trak secured on one side to valley of floor units with 1-1/2 in. long welds spaced 12 in. OC. Min No. 25 gauge deflection trak may be secured with No. 8 by 1/2 in. steel tee screws spaced max 12 in. OC. The other side of the deflection trak is secured to Z-furring clips (Item 2B) with two No. 8 by 1/2 in. long tee screws. On concrete floor (Configuration C), min No. 20 gauge deflection trak attached to concrete at ceiling with 1/4 in. diam by 1-1/4 in. long steel expansion anchor spaced max 12 in. OC. FIRE TRAK CORP - Shadowline

B. Z-Furring - (Parallel Units) - When trak is installed parallel to floor units, Z-furring clips are attached to the bottom of the floor units within the crests and top of the deflection trak with two No. 8 by 1/2 in. long steel tee screws. Clip spacing not to exceed 24 in. OC.

C. Studs - Steel studs to be min 2-1/2 in. wide and as specified in the individual Wall and Partition Design in the UL Fire Resistance Directory. Studs cut 1-1/2 in. less in length than the assembly height with bottom nesting in and resting on floor runner and with top nesting in ceiling runner without attachment. Stud spacing not to exceed 24 in. OC.

D. Wallboard, Gypsum* - Wallboard sheets installed and attached to studs and runners as specified in the individual Wall and Partition Design in the UL Fire Resistance Directory, except that a nominal 1 in. gap shall be maintained between top of wallboard and the bottom flange of the deflection trak. Top row of screws shall be installed into the studs 3 in. below the top edge of the wallboard sheets. The hourly assembly rating of the joint system is equal to the fire rating of the wall.

3. Joint System - Max separation between bottom flange of the deflection trak and top of wallboard (at the time of installation of the joint system) is 1 in. The joint system is designed to accommodate a max 100 percent compression or extension from its installed width. The joint system consists of packing material (Item 3A), wall cladding (Item 3B) and a fill material (Item 3C) as follows:

A. Packing Material - Min 4 pcf density mineral wool insulation cut to the shape of the fluted deck, 25 percent larger than the area of the flutes and compressed into the flutes of the steel floor units above the ceiling runner as a permanent form.

B. Wall Cladding - Strips of the gypsum wallboard material cut to the contour of the steel floor units and attached to the deflection trak. The number of layers, board type and thickness and fastener type shall be as specified for the gypsum wallboard in the Individual Wall and Partition Design in the UL Fire Resistance Directory. Fasteners shall be max spaced 3 in. OC. The top of the wall cladding shall be recessed min 1/8 in. to max 1/2 in. from the steel floor units and overlap the gypsum wallboard 4 in.

C. Fill, Void or Cavity Material* - Full depth of fill material installed on each side of the wall between the top of the wall cladding and the surface of the steel floor units, flush with each surface of the cladding.

DAP INC - DAP Firestop Sealant
 FIRESTOP SYSTEMS INC - 4100NS, 4800DW
 HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC - FS601, FS611A or FS-ONE
 INSTANT FIRESTOP MFG INC - FS344-GG
 INTERNATIONAL PROTECTIVE COATINGS CORP - FS3000, FS3001, FS3005
 JOHNS MANVILLE INTERNATIONAL INC - Firetemp CI
 MINNESOTA MINING & MFG CO - FB 1000NS, FB 2000, FB 2000+, FD-150+, CP 25 WB+
 NATIONAL GYPSUM CO - FS-90 NUCCO INC - Self Seal 90-200
 RECTORSAL - Metacoulk 835+, Metacoulk 1000, Blotop 500+Caulk, Biotherm 100
 SPECIFIED TECHNOLOGIES INC - SpecSeal ES Sealant
 TREMCO INC - Tremstop Acrylic
 UNITED STATES GYPSUM CO - FC, RFC

3. Joint System - Max separation between bottom flange of the deflection trak and top of wallboard (at the time of installation of the joint system) is 1 in. The joint system is designed to accommodate a max 100 percent compression or extension from its installed width. The joint system consists of packing material (Item 3A), wall cladding (Item 3B) and a fill material (Item 3C) as follows:

A. Wall Cladding - Strips of the gypsum wallboard material cut to the contour of the steel floor units and attached to the deflection trak. The number of layers, board type and thickness and fastener type shall be as specified for the gypsum wallboard in the Individual Wall and Partition Design in the UL Fire Resistance Directory. Fasteners shall be max spaced 3 in. OC. The top of the wall cladding shall be recessed min 1/8 in. to max 1/2 in. from the steel floor units and overlap the gypsum wallboard 4 in.

B. Fill, Void or Cavity Material* - Full depth of fill material installed on each side of the wall between the top of the wall cladding and the surface of the steel floor units, flush with each surface of the cladding.

DAP INC - DAP Firestop Sealant
 FIRESTOP SYSTEMS INC - 4100NS, 4800DW
 HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC - FS601, FS611A or FS-ONE
 INSTANT FIRESTOP MFG INC - FS344-GG
 INTERNATIONAL PROTECTIVE COATINGS CORP - FS3000, FS3001, FS3005
 JOHNS MANVILLE INTERNATIONAL INC - Firetemp CI
 MINNESOTA MINING & MFG CO - FB 1000NS, FB 2000, FB 2000+, FD-150+, CP 25 WB+
 NATIONAL GYPSUM CO - FS-90 NUCCO INC - Self Seal 90-200
 RECTORSAL - Metacoulk 835+, Metacoulk 1000, Blotop 500+Caulk, Biotherm 100
 SPECIFIED TECHNOLOGIES INC - SpecSeal ES Sealant
 TREMCO INC - Tremstop Acrylic
 UNITED STATES GYPSUM CO - FC, RFC

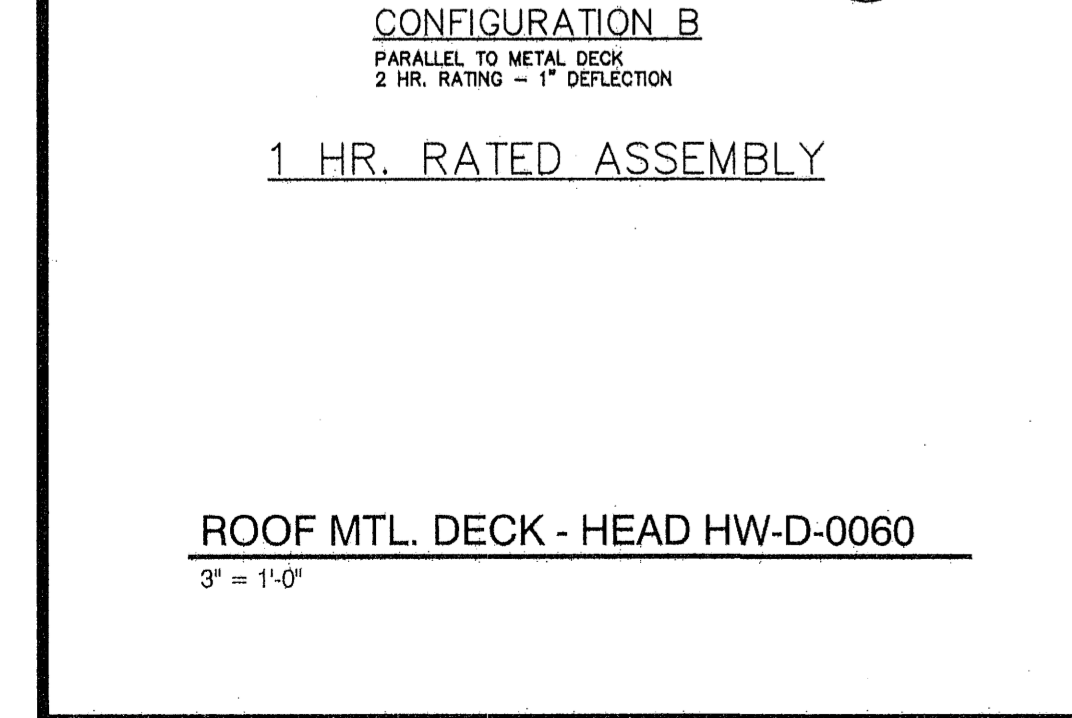
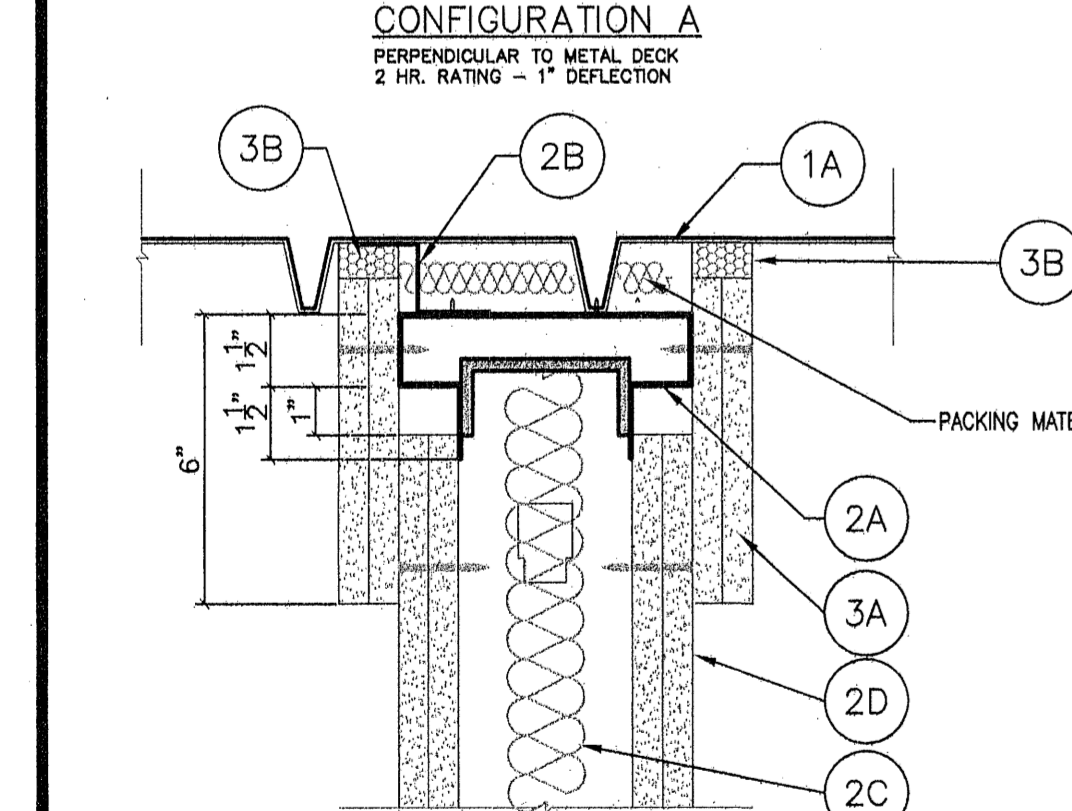
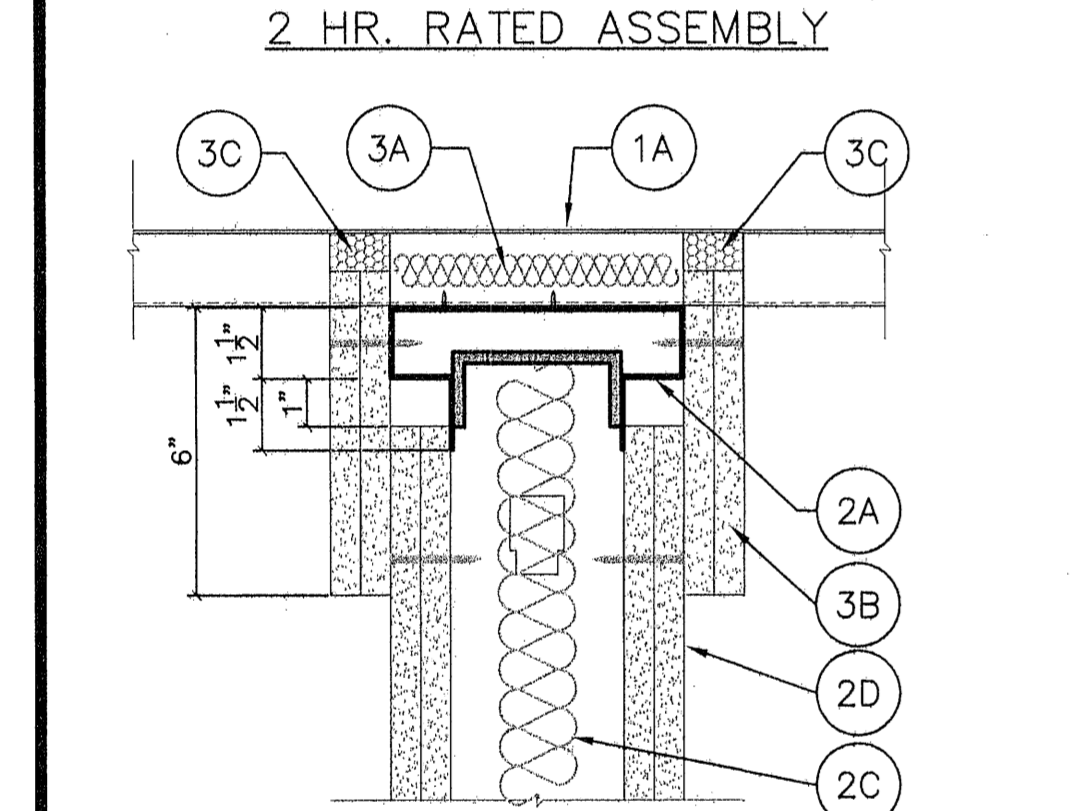
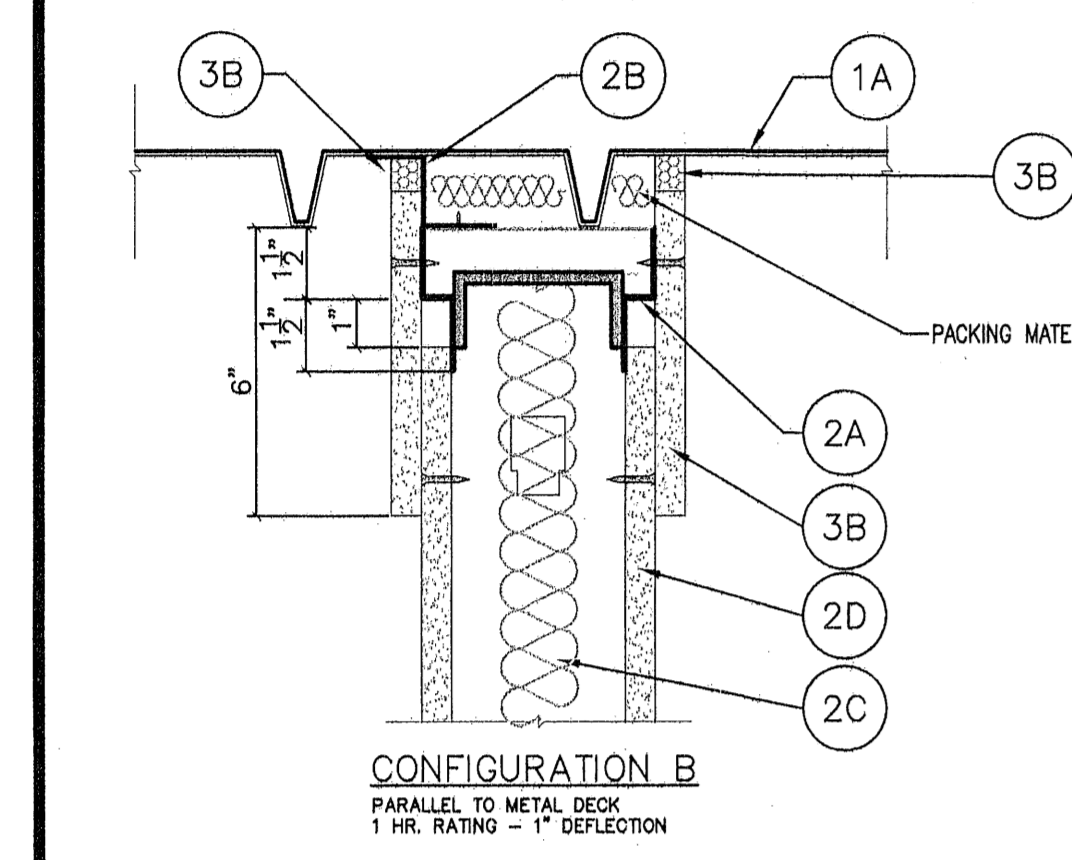
3. Joint System - Max separation between bottom flange of the deflection trak and top of wallboard (at the time of installation of the joint system) is 1 in. The joint system is designed to accommodate a max 100 percent compression or extension from its installed width. The joint system consists of packing material (Item 3A), wall cladding (Item 3B) and a fill material (Item 3C) as follows:

A. Wall Cladding - Strips of the gypsum wallboard material cut to the contour of the steel floor units and attached to the deflection trak. The number of layers, board type and thickness and fastener type shall be as specified for the gypsum wallboard in the Individual Wall and Partition Design in the UL Fire Resistance Directory. Fasteners shall be max spaced 3 in. OC. The top of the wall cladding shall be recessed min 1/8 in. to max 1/2 in. from the steel floor units and overlap the gypsum wallboard 4 in.

B. Fill, Void or Cavity Material* - Full depth of fill material installed on each side of the wall between the top of the wall cladding and the surface of the steel floor units, flush with each surface of the cladding.

DAP INC - DAP Firestop Sealant
 FIRESTOP SYSTEMS INC - 4100NS, 4800DW
 HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC - FS601, FS611A or FS-ONE
 INSTANT FIRESTOP MFG INC - FS344-GG
 INTERNATIONAL PROTECTIVE COATINGS CORP - FS3000, FS3001, FS3005
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 NATIONAL GYPSUM CO - FS-90 NUCCO INC - Self Seal 90-200
 RECTORSAL - Metacoulk 835+, Metacoulk 1000, Blotop 500+Caulk, Biotherm 100
 SPECIFIED TECHNOLOGIES INC - SpecSeal ES Sealant
 TREMCO INC - Tremstop Acrylic
 UNITED STATES GYPSUM CO - FC, RFC

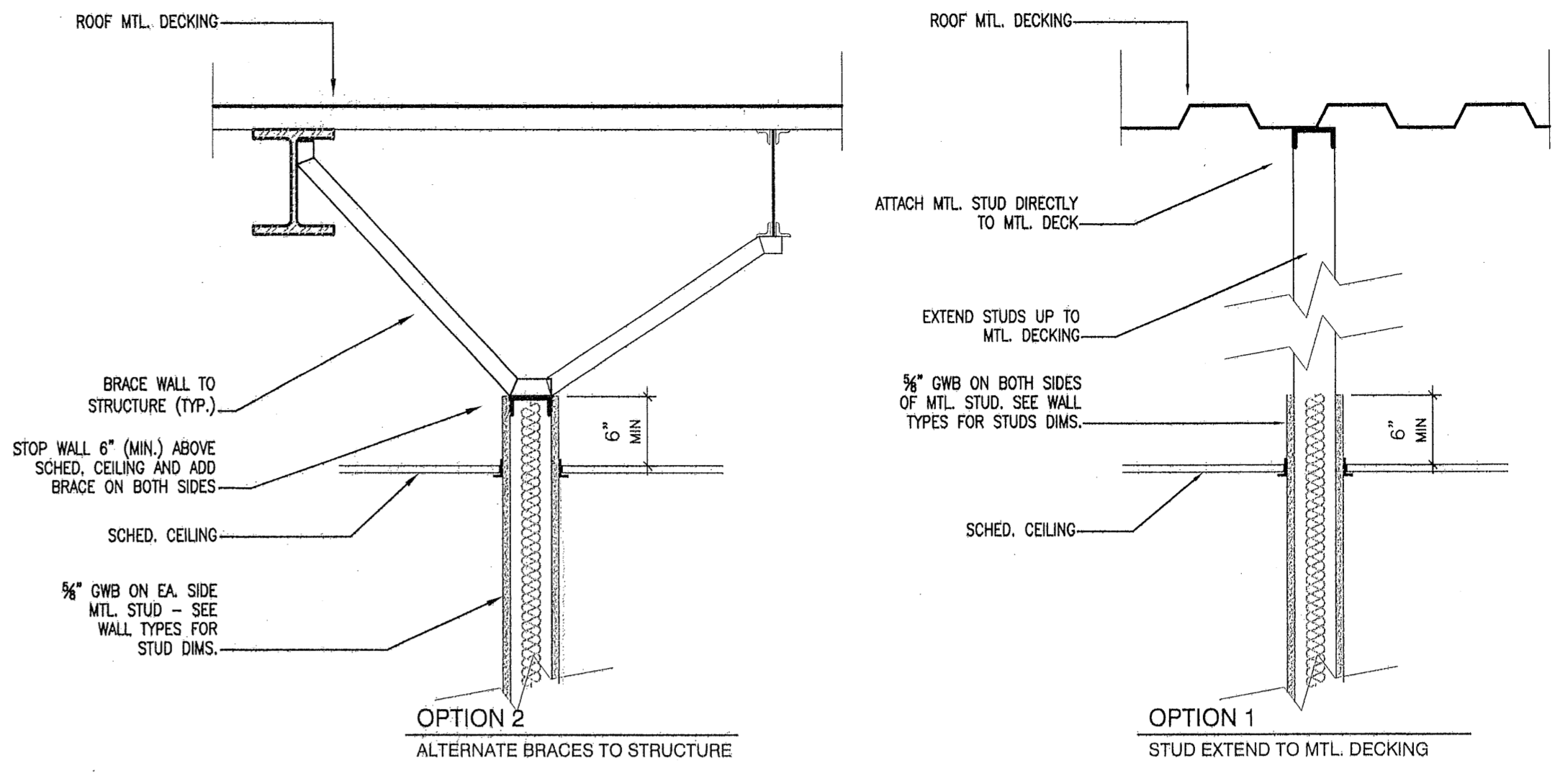
*Bearing the UL Classification Marking



ROOF MTL. DECK - HEAD HW-D-0060
 3\"/>

NOTE:
 1. ALL HEADS OF FIRE RATED WALLS TO COMPLY W/ DESCRIPTIONS AND DETAILS ON THIS SHEET AND ALSO SYSTEM NO. HW-D-0060 IN FIRE RESISTANCE DIRECTORY, VOLUME 2.
 2. ARCHITECT TO BE NOTIFIED AND CONSULTED FOR ANY ATYPICAL SITUATION NOT DESCRIBED HERE OR / AND ANY OTHER PROBLEM THAT MIGHT OCCUR PREVIOUS TO BEGINNING WORK.
 3. NON-RATED WALLS TO BE ATTACHED TO STL. DECKING OR STRUCTURE AS DESCRIBED ON THIS SHEET. ANY CHANGES OR ATYPICAL SITUATION - NOTIFY ARCHITECT BEFORE EXECUTION.

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NON-RATED WALLS BRACING SYSTEM
 1\"/>

Design No. U419
 Nonbearing Wall Rating - 1, 2, 3 or 4 Hr (See Item 3 & 4).

1. Floor and Ceiling Runners* - (Not shown) - Channel shaped, fabricated from min 25 MSG (min 20 MSG when Item 4A is used) corrosion-protected steel, min width to accommodate stud size, with min 1 in. long legs, attached to floor and ceiling with fasteners 24 in. OC max.
2. Steel Studs - Channel shaped, fabricated from min 25 MSG (min 20 MSG when Item 4A is used) corrosion-protected steel, min width as indicated under Item 4, min 1-1/4 in. flanges and 1/4 in. return, spaced a max of 24 in. OC. Studs to be cut 3/8 to 3/4 in. less than assembly height.
3. Batts and Blankets* - (Required as indicated under Item 4) - Mineral wool batts, friction fitted between studs and runners. Min non thickness as indicated under item 4. See Batts and Blankets (BKNV or BZJZ) Categories for names of Classified companies.
- 3A. Batts and Blankets* - (Optional) - Placed in stud cavities, any glass fiber or mineral wool insulation bearing the UL Classification Marking as to Surface Burning Characteristics and / or Fire Resistance. See Batts and Blankets (BKNV or BZJZ) Categories for names of Classified companies.
4. Wallboard, Gypsum* - Gypsum panels with beveled, square or tapered edges, applied vertically or horizontally. Vertical joints centered over studs and staggered one stud cavity on opposite sides of studs. Vertical joints in adjacent layers (multilayer systems) staggered one stud cavity. Horizontal edge joints and horizontal butt joints on opposite sides of studs need not be staggered. Horizontal edge joints and horizontal butt joints in adjacent layers (multilayer systems) staggered a min of 12 in. The thickness and number of layers for the 1 hr, 2 hr, 3 hr and 4 hr ratings are as follows:

Rating	Wallboard Protection on Each Side of Wall	Main Thkns of Insulation (Item 3)	
1	3-1/2	1 layer, 5/8 in. thick	Optional
1	2-1/2	1 layer, 1/2 in. thick	Optional
1	1-5/8	1 layer, 3/4 in. thick	Optional
2	1-5/8	2 layers, 1/2 in. thick	Optional
2	1-5/8	2 layers, 5/8 in. thick	Optional
2	3-1/2	1 layer, 3/4 in. thick	Optional
3	1-5/8	3 layers, 1/2 in. thick	Optional
3	1-5/8	2 layers, 3/4 in. thick	Optional
3	1-5/8	3 layers, 5/8 in. thick	Optional
4	1-5/8	4 layers, 5/8 in. thick	Optional
4	1-5/8	4 layers, 1/2 in. thick	Optional
4	2-1/2	2 layers, 3/4 in. thick	2 in.

CANADIAN GYPSUM COMPANY - 1/2 in. thick Type C, WRC or IP-X2; 5/8 in. thick Type SCX, SHX, WRX, IP-X1, AR, C, WRC or IP-X2; 3/4 in. thick ULTRACODE or Type IP-X3.
 UNITED STATES GYPSUM CO - 1/2 in. thick Type C, WRC or IP-X2; 5/8 in. thick Type SCX, SHX, WRX, IP-X1, AR, C, WRC, FRX-G or IP-X2; 3/4 in. thick ULTRACODE or Type IP-X3.
 YESO PANAMERICANO S A DE C V - 1/2 in. thick Type C, WRC or IP-X2; 5/8 in. thick Type SCX, SHX, WRX, IP-X1, AR, C, WRC or IP-X2; 3/4 in. thick ULTRACODE or Type IP-X3.

4A. Wallboard, Gypsum* - (As an alternate to Item 4) - 5/8 in. thick gypsum panels, installed as described in Item 4 with Type S-12 steel screws. The length and spacing of the screws as specified under Item 5.

4B. Wallboard, Gypsum* - (As an alternate to Item 4 and 4A) - 5/8 in. thick, 2 ft. wide, tongue and groove edge, applied horizontally as the outer layer to one side of the assembly. Secured as described in Item 5. Joint covering (Item 7) not required.

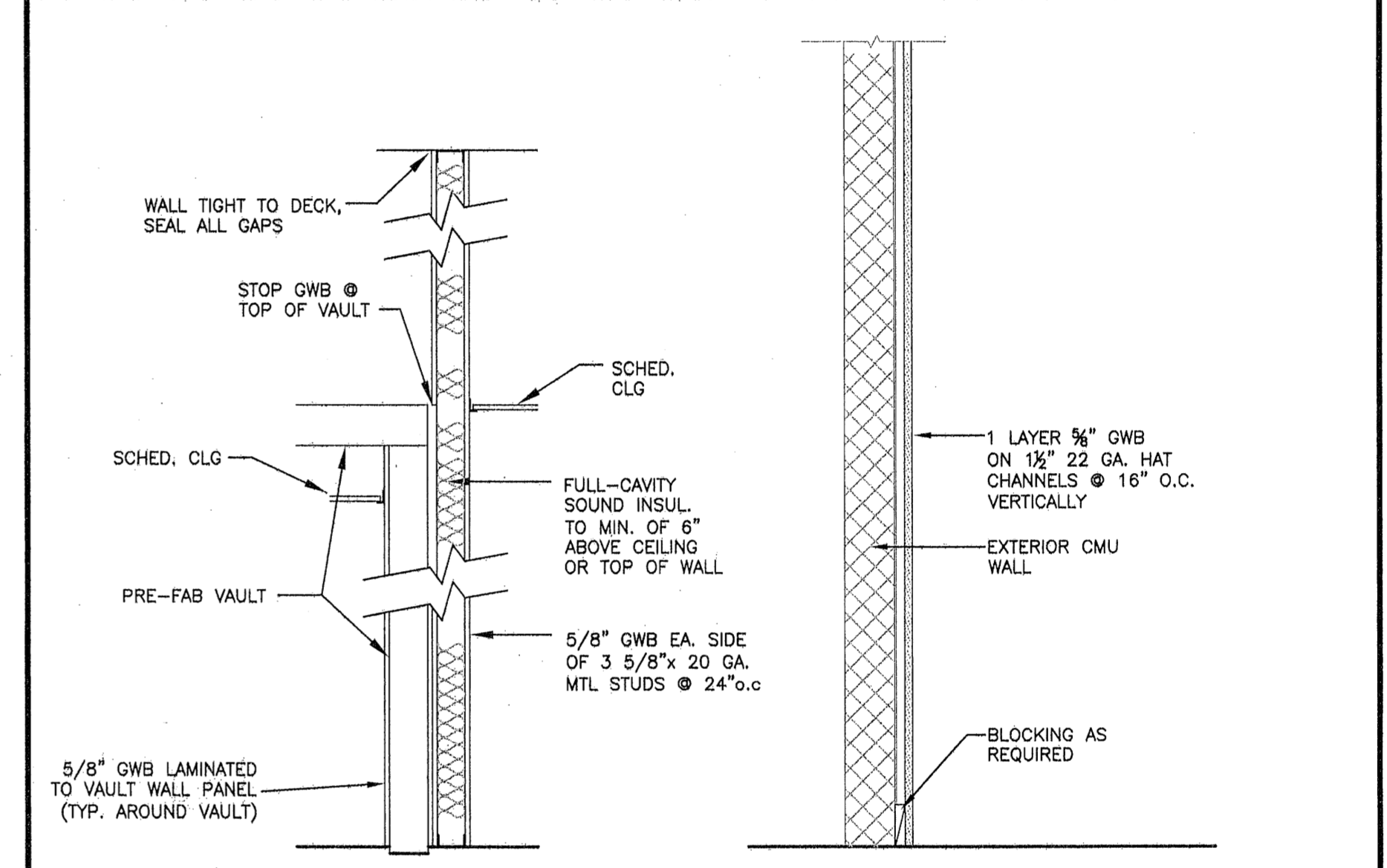
5. Fasteners - (Not shown) - Type 8 or S-12 steel screws used to attach panels to studs (Item 2) or furring channels (Item 6). Single layer systems: 1 in. long for 1/2 and 5/8 in. thick panels or 1-1/4 in. long for 3/4 in. thick panels, spaced 8 in. OC when panels are applied horizontally, or 12 in. OC when panels are applied vertically. Two layer systems: First layer - 1 in. long for 1/2 and 5/8 in. thick panels or 1-1/4 in. long for 3/4 in. thick panels, spaced 16 in. OC. Second layer - 1-5/8 in. long for 1/2 in., 5/8 in. thick panels, spaced 24 in. OC. Third layer - 1-5/8 in. long for 1/2 in., 5/8 in. thick panels or 2-1/4 in. long for 3/4 in. thick panels, spaced 16 in. OC with screws offset 8 in. from first layer. Three-layer systems: First layer - 1 in. long for 1/2 in., 5/8 in. thick panels, spaced 24 in. OC. Second layer - 1-5/8 in. long for 1/2 in., 5/8 in. thick panels, spaced 24 in. OC. Third layer - 1-5/8 in. long for 1/2 in., 5/8 in. thick panels, spaced 24 in. OC. Fourth layer - 2-5/8 in. long for 1/2 in. thick panels or 3 in. long for 5/8 in. thick panels spaced 12 in. OC. Screws offset min 6 in. from layer below. Four-layer systems: First layer - 1 in. long for 1/2 in., 5/8 in. thick panels, spaced 24 in. OC. Second layer - 1-5/8 in. long for 1/2 in., 5/8 in. thick panels, spaced 24 in. OC. Third layer - 2-1/4 in. long for 1/2 in. thick panels, spaced 24 in. OC. Fourth layer - 2-5/8 in. long for 1/2 in. thick panels or 3 in. long for 5/8 in. thick panels spaced 12 in. OC. Screws offset min 6 in. from layer below.

6. Furring Channels - (Optional, not shown, for single or double layer systems) - Resilient furring channels fabricated from min 25 MSG corrosion-protected steel, spaced vertically a max of 24 in. OC. Flange portion attached to each intersecting stud with 1/2 in. long Type S-12 steel screws. Not for use with Item 4A.

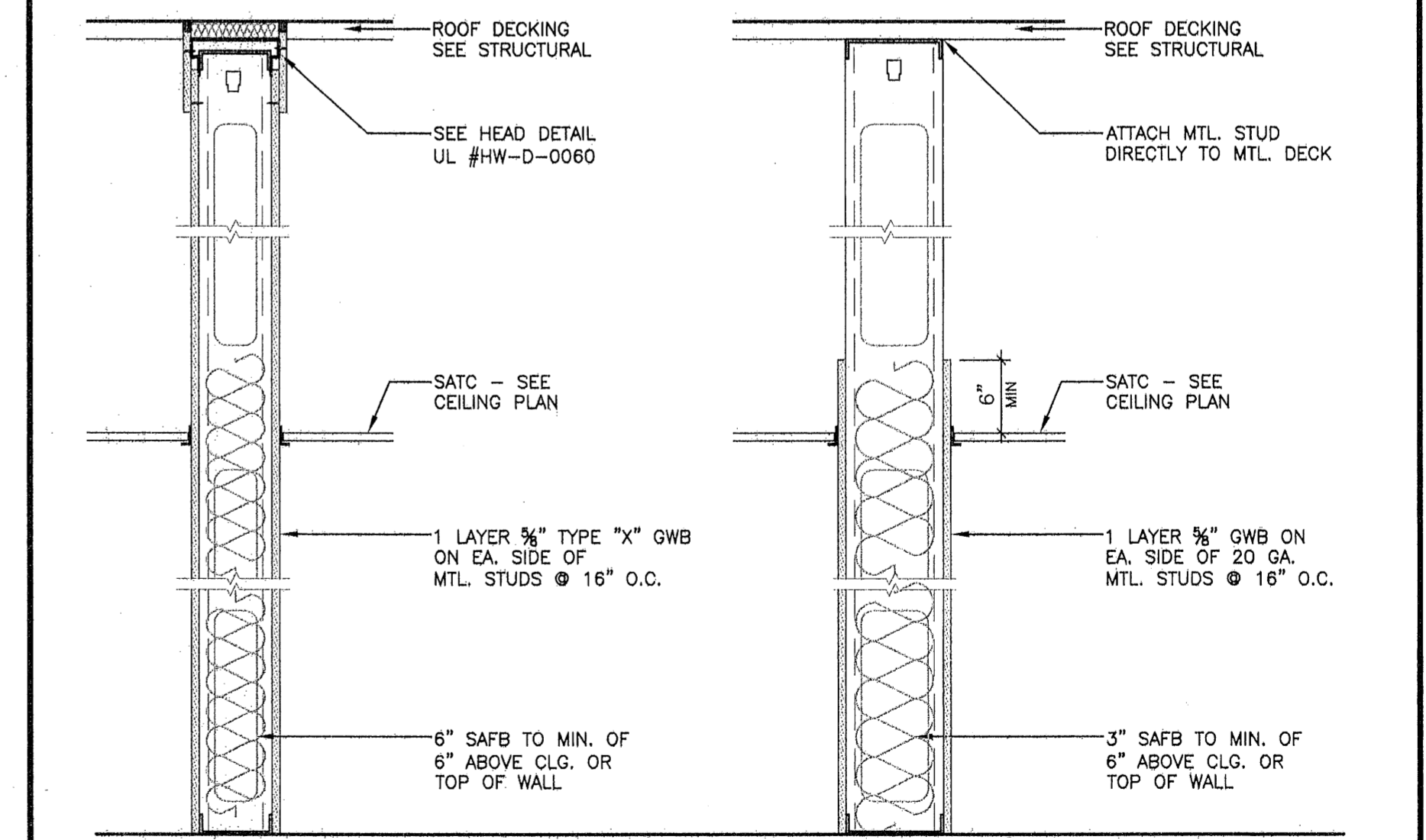
7. Joint Tape and Compound - Vinyl or casein, dry or premixed joint compound applied in tow coats to joints and screw heads of outer layers. Paper tape, non. 2 in. wide, embedded in first layer of compound over all joints of outer panels.

8. Siding, Brick or Stucco - (Optional, not shown) - Aluminum, vinyl or steel siding, brick veneer or stucco, meeting the requirements of local code agencies, installed over gypsum panels. Brick veneer attached to studs with corrugated metal ties attached to each stud with steel screws, not more than each sixth course of brick.

9. Caulking and Sealant* - (Optional, not shown) - A bead of acoustical sealant applied around the partition perimeter for sound control.
 UNITED STATES GYPSUM CO - Type AS
 *Bearing the UL Classification.



6\"/>



3\"/>

NOTE:
 - NON-RATED WALLS SURROUNDING RESTROOM AND NON-RATED WALLS BETWEEN RESTROOMS TO HAVE (1) SIDE OF THE GWB EXTENDING UP TO THE DECK. ADD 3/4\"/>

ANDERSON VAUGHAN ARCHITECTS, INC.
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REVISED

FirstBank
 6482 POPLAR AVENUE
 MEMPHIS, TENNESSEE

A6.1

GENERAL NOTES

- 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 THE OWNER, CONTRACTOR, ARCHITECT, ENGINEER, SUPPLIER, OR ANY OF THE 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 (S.E.R.) OR ANY OF THE S.E.R.'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 OF THE CONTRACT DOCUMENTS.
- REFERENCE TO STANDARD SPECIFICATIONS (CONCERNING STRUCTURAL DESIGN) OF 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.
- IN THE EVENT CONTRACT DOCUMENTS CONFLICT WITH THE CODE OF PRACTICE OR SPECIFICATIONS OF A.C.I., A.I.S.C., A.S.I., S.I., OR OTHER STANDARDS, CONTACT STRUCTURAL ENGINEER FOR CLARIFICATION.
- NOTES AND SPECIFIC DETAILS ON THE DRAWINGS SHALL TAKE PRECEDENCE OVER GENERAL STRUCTURAL NOTES AND TYPICAL DETAILS. CONTACT THE ARCHITECT / ENGINEER FOR A DETERMINATION OF INTENT BEFORE PROCEEDING WITH RELATED WORK IF THERE IS ANY DISCREPANCY OR QUESTION REGARDING WHICH NOTE TO FOLLOW.
- MATERIAL, WORKMANSHIP, AND DESIGN SHALL CONFORM TO THE REFERENCED BUILDING CODE.
- THE CONTRACTOR SHALL VERIFY THE DIMENSIONS, ELEVATIONS AND SITE CONDITIONS BEFORE STARTING WORK. THE ARCHITECT / ENGINEER SHALL BE NOTIFIED OF ANY DISCREPANCY.
- THE DESIGN, ADEQUACY, AND SAFETY OF ERECTION BRACING, SHORING, TEMPORARY SUPPORTS, ETC. IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
- THE CONTRACTOR SHALL COORDINATE THE ARCHITECTURAL, MECHANICAL, ELECTRICAL, PLUMBING AND CIVIL WORKS WITH THE STRUCTURAL CONTRACT DOCUMENTS. THE ARCHITECT / ENGINEER SHALL BE NOTIFIED OF ANY DISCREPANCIES OR OMISSIONS.
- THE CONTRACTOR SHALL NOTIFY, IN WRITING, THE ENGINEER OF CONDITIONS ENCOUNTERED IN THE FIELD THAT ARE CONTRADICTORY TO THOSE SHOWN ON THE CONTRACT DOCUMENTS.
- FOR DIMENSIONS NOT SHOWN ON THE STRUCTURAL DRAWINGS SEE THE ARCHITECTURAL DRAWINGS.

DESIGN CRITERIA

- 1999 STANDARD BUILDING CODE (SBC)
- LIVE LOADS (REDUCED AS ALLOWED BY THE BUILDING CODE)
ROOF = 20 PSF
- DEAD LOADS
ROOF = 20 PSF
- WIND LOADS
A. BASIC WIND SPEED: 70 MPH
B. VELOCITY PRESSURE: VARIES
C. USE FACTOR: I
- SEISMIC LOADS
A. PEAK VELOCITY-RELATED ACCELERATION: $A_v = .20$
B. PEAK ACCELERATION: $A_d = .20$
C. SEISMIC HAZARD EXPOSURE GROUP: I
D. SEISMIC PERFORMANCE CATEGORY: D
E. SOIL PROFILE TYPE: S = 2.0
F. SEISMIC RESISTING SYSTEM: REINFORCED MASONRY SHEARWALLS
G. RESPONSE MODIFICATION FACTOR: $R = 3.5$
H. DEFLECTION AMPLIFICATION FACTOR: $C_d = 3.0$
I. ANALYSIS PROCEDURE: EQUIVALENT LATERAL FORCE

SHALLOW FOUNDATIONS

- FOUNDATIONS ARE DESIGNED FOR AN ASSUMED MAXIMUM SOIL BEARING PRESSURE OF:
SPREAD FOOTINGS: 1500 PSF; CONTINUOUS FOOTINGS: 1500 PSF
- ALL FOOTING SHALL BE TESTED AFTER EXCAVATION BY A QUALIFIED GEOTECHNICAL ENGINEER TO DETERMINE IF THE ASSUMED BEARING VALUES STATED ABOVE ARE VALID. ALL SOILS TESTING SHALL BE PERFORMED BY AN EXPERIENCED TESTING AGENCY AND THE RESULTS SHALL BE CERTIFIED BY THE GEOTECHNICAL ENGINEER TO CONFORM TO THE ABOVE LISTED DESIGN VALUES.
- IN THE EVENT THAT THE SOILS TEST RESULTS ARE DISAPPROVED, FOOTING EXCAVATIONS SHALL BE UNDERCUT (UNDER THE DIRECTION OF THE SOILS ENGINEER) UNTIL SOILS OF ADEQUATE BEARING CAPACITY ARE ENCOUNTERED. BACKFILL UNDER FOOTINGS SHALL CONSIST OF CONCRETE $f'c = 2500$ PSI @ 28 DAYS PLACED UP TO THE PROPOSED BOTTOM OF FOOTING ELEVATION.
- FOUNDATIONS SHALL BEAR ON UNDISTURBED COMPACTED FILL, MINIMUM DENSITY OF 98% ASTM D-598 OR UNDISTURBED RESIDUAL SOILS.
- FOOTING EXCAVATIONS SHALL BE OBSERVED BY AN EXPERIENCED GEOTECHNICAL ENGINEER PRIOR TO STEEL OR CONCRETE PLACEMENT IN ORDER TO ASSESS THAT THE FOUNDATION MATERIALS ARE ADEQUATE.
- FOOTING ELEVATIONS SHOWN ON THE PLANS ARE FOR ESTIMATING PURPOSES ONLY. ACTUAL FOOTING ELEVATIONS SHALL BE DETERMINED BY THE CONTRACTOR AT THE SITE AND SHALL BE A MINIMUM OF 12" BELOW FINISHED GRADE.
- ALL WATER SHALL BE REMOVED FROM FOUNDATION EXCAVATIONS PRIOR TO PLACING OF CONCRETE. IF BOTTOMS OF TRENCHES BECOME SOFTENED DUE TO WATER BEFORE FOOTINGS ARE CAST, THE CONTRACTOR, AT HIS OWN EXPENSE, SHALL EXCAVATE THE SOFTENED MATERIAL AND REPLACE WITH CONCRETE.
- ALL PIPES (WATER LINES, SEWER LINES, ETC.) AND CONDUITS RUNNING THROUGH WALLS / SLABS SHALL BE PROTECTED WITH 1/2" EXPANSION MATERIAL.
- CONTINUOUS FOOTING PERPENDICULAR TO PIPE RUNS SHALL BE EITHER LOWERED TO ALLOW PIPES TO PASS THROUGH ABOVE SUCH FOOTINGS OR HAVE CONCRETE JACKET IF PIPES ARE LOW ENOUGH TO BE PLACED BELOW SUCH FOOTINGS. FOOTINGS PARALLEL TO PIPE RUNS SHALL BE LOWERED TO AVOID SURCHARGE ONTO THE TRENCH EXCAVATIONS.
- REFER TO CIVIL PLANS FOR LIMITS OF EXCAVATION.

MASONRY

- CONCRETE MASONRY UNITS FOR LOAD BEARING WALLS SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF $F'_m = 1500$ PSI.
a. HOLLOW UNITS: ASTM C90 GRADE N, LIGHTWEIGHT TYPE 1 (MOISTURE CONTROLLED)
b. SOLID UNITS: ASTM C145 GRADE N, TYPE 1 (MOISTURE CONTROLLED)
- CONCRETE MASONRY UNITS SHALL BE LAID WITH TYPE M OR S MORTAR.
- GROUT FOR REINFORCED MASONRY: ASTM C476 (2000 PSI)
- REINFORCEMENT:
a. HORIZONTAL JOINTS: STANDARD DUR-O-WALL OR EQUIVALENT TRUSS OR TRI-ROD REINFORCEMENT AT 16" O.C. UNLESS NOTED OTHERWISE
b. VERTICAL AND HORIZONTAL REINFORCEMENT: ASTM A615, GRADE 60
- CONSTRUCTION OF ALL CONCRETE MASONRY SHALL CONFORM TO THE LATEST EDITION OF ACI-530.
- GROUT SOLID ALL CELLS CONTAINING REINFORCING AND ALL CELLS BELOW GRADE.
- CONTROL JOINTS: SPACING SHALL NOT EXCEED 30'-0" OR 3 TIMES THE WALL HEIGHT WHICHEVER IS LESSER, UNLESS NOTED OTHERWISE.
- GROUT ALL BEAM AND JOIST POCKETS SOLID AFTER INSTALLATION OF BEAMS AND JOISTS.
- MINIMUM LAP OF REINFORCING STEEL SHALL BE 50 BAR DIAMETERS FOR TYPICAL REINFORCING AND 50 BAR DIAMETERS FOR ALL JAMB BARS SHOWN ON WALL ELEVATIONS OR 2'-0" MINIMUM.
- MAXIMUM HEIGHT OF GROUT POUR SHALL BE 4'-0".
- PROVIDE 1/4" CLEARANCE FROM INSIDE FACE OF BLOCK MASONRY CELLS AND MINIMUM OF ONE BAR DIAMETER, BUT NOT LESS THAN 3/4" CLEAR DISTANCE BETWEEN PARALLEL BARS.
- ALL VERTICAL REINFORCING STEEL SHALL BE POSITIONED AND HELD IN PLACE BY MEANS OF WIRE SPACERS.

METAL DECKING

- PROVIDE DESIGN, FABRICATION, AND ERECTION OF METAL DECK CONFORMING TO THE STEEL DECK INSTITUTE'S "CODE OF STANDARD PRACTICE AND BASIC DESIGN SPECIFICATIONS".
- FORM ROOF DECK FROM STEEL SHEETS CONFORMING TO ASTM A811 GRADE D AND D OR A653 OR HIGHER SPECIFICATIONS WITH MINIMUM YIELD STRENGTH OF 33 KSI.
- ATTACH SHEETS TO STEEL SUPPORT MEMBERS AS INDICATED AND IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS FOR INSTALLATION. WHEN DECK IS SCHEDULED TO BE EXPOSED, DE-SLAG, CLEAN AND TOUCHED UP WELDS WITH A ZINC-RICH PRIMER.
- LAP JOINTS MINIMUM OF 2 INCHES WHEN FASTENING DECK TO SUPPORT MEMBERS PROVIDE WELDING MATERIAL INSTALLATION PROCEDURES TO PREVENT BURNING OF HOLES IN DECK.
- METAL DECK FABRICATOR TO FURNISH SHOP DRAWINGS FOR STRUCTURAL ENGINEER'S REVIEW PRIOR TO FABRICATION. SHOP DRAWINGS SHALL INCLUDE WELDING PROCEDURE, SIDE LAP CONNECTIONS, TESTING PROGRAMS FOR WELDING, COATING MATERIAL AND ERECTION SEQUENCE.
- ROOF DECK SHALL HAVE THE FOLLOWING MINIMUM SECTION PROPERTIES:
a. SECTION PROPERTIES (PER FOOT OF WIDTH)
TYPE = 1.5B; GAUGE = .20; DEPTH = 1 1/2"
I = .212 IN⁴
 $S_x = .234$ IN³; $S_y = .247$ IN³

STRUCTURAL STEEL

- STRUCTURAL STEEL SHALL CONFORM TO ASTM A572, GRADE 50 UNLESS NOTED OTHERWISE. PIPE COLUMNS SHALL CONFORM TO ASTM A53 TYPE E OR S GRADE B. TUBES SHALL CONFORM TO ASTM A500 GRADE B.
- DESIGN, FABRICATION, AND ERECTION SHALL BE IN ACCORDANCE WITH AISC SPECIFICATION FOR THE DESIGN, FABRICATION, AND ERECTION OF STRUCTURAL STEEL BUILDINGS.
- STRUCTURAL STEEL SHALL BE DETAILED IN ACCORDANCE WITH STANDARD PRACTICES OF A.I.S.C.
a. CONNECTIONS: AISC MANUAL STANDARD CONNECTIONS, UNLESS NOTED.
b. HIGH-STRENGTH BOLTS: ASTM A325 BEARING TYPE II INSTALLED IN ACCORDANCE WITH "SPECIFICATION FOR STRUCTURAL JOISTS USING ASTM A325 OR A490 BOLTS", RESEARCH COUNCIL ON RIVETED AND BOLTED STRUCTURAL JOISTS.
- ALL WELDS MUST BE MADE IN ACCORDANCE WITH THE AMERICAN WELDING SOCIETY CODE D-1.1.
- FIELD AND SHOP CONNECTIONS SHALL BE WELDED AS SHOWN ON DRAWINGS OR BOLTED WITH HIGH STRENGTH BOLTS, UNLESS NOTED OTHERWISE.
- SEE ARCHITECTURAL DRAWINGS FOR ANGLES, CLIPS, BARS, PLATES, AND OTHER ITEMS ATTACHED TO STRUCTURAL MEMBERS, AND FOR CHAMFERS ON CONCRETE WALLS, BEAMS, ETC.
- PROVIDE TEMPORARY BRACING AS REQUIRED TO MAINTAIN ALIGNMENT AND SECURITY OF STRUCTURES DURING CONSTRUCTION.
- DO NO CUTTING, DRILLING OR MODIFYING OF STRUCTURAL MEMBERS WITHOUT THE APPROVAL OF THE ENGINEER.
- THE MANUFACTURER'S NAME, BRAND OR TRADEMARK (MILL IDENTIFICATION MARKS) SHALL BE SHOWN IN RAISED LETTERS AT INTERVALS ALONG THE LENGTH. (ASTM A6/A6M 96-97, PARAGRAPH 12.2) NOTE: SMALL SHAPES WITH THE GREATEST CROSS-SECTIONAL DIMENSION NOT GREATER.
- CONTRACTOR SHALL VERIFY SIZE AND LOCATION OF ROOF OPENINGS WITH THE MECHANICAL CONTRACTOR, AND SHALL BE RESPONSIBLE FOR COORDINATING ALL ROOF TOP UNIT LOCATIONS, WEIGHTS, AND SIZES WITH THE STEEL FABRICATOR/ERECTOR.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR DESIGN ADEQUACY OF ALL STANDARD CONNECTIONS WHICH SHALL BE DESIGNED IN ACCORDANCE WITH STANDARD PRACTICES OF THE AISC SPECIFICATIONS. SHOP DRAWING REVIEW BY THE OWNER SHALL BE FOR GENERAL COMPLIANCE WITH THE INFORMATION CONTAINED IN THE CONTRACT DRAWINGS.

CONCRETE

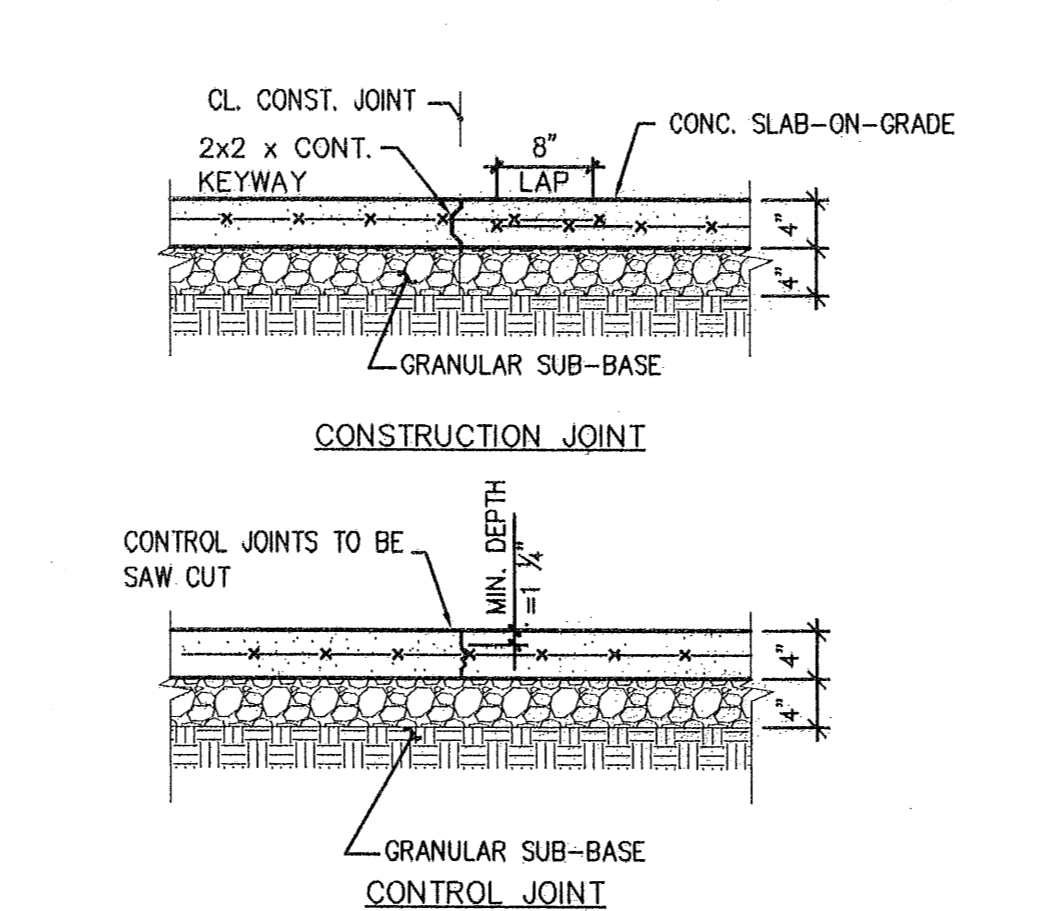
- ALL PHASES OF WORK PERTAINING TO THE CONCRETE CONSTRUCTION SHALL CONFORM TO THE "BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE" (ACI 318), LATEST EDITION WITH MODIFICATIONS AS NOTED IN THE DRAWINGS OR SPECIFICATIONS.
- CONCRETE MIXES SHALL BE DESIGNED BY A QUALIFIED TESTING LABORATORY AND APPROVED BY THE STRUCTURAL ENGINEER.
- SCHEDULE OF CONCRETE 28 DAY STRENGTHS: (EXPOSED CONCRETE SHALL HAVE 5% A.E.)
a. SLABS ON GRADE: 4000 PSI
b. FOUNDATIONS: 3000 PSI
- ALL EXPOSED CORNERS OR EDGES OF COLUMNS, PIERS, WALLS, ETC., SHALL BE FORMED WITH A 3/4" CHAMFER UNLESS NOTED OTHERWISE ON STRUCTURAL OR ARCHITECTURAL DRAWINGS.
- ALL REINFORCING BARS, ANCHOR BOLTS AND OTHER CONCRETE INSERTS SHALL BE WELL SECURED IN POSITION PRIOR TO PLACING CONCRETE.
- PROVIDE SLEEVES FOR PLUMBING AND ELECTRICAL OPENINGS IN CONCRETE BEFORE PLACING CONCRETE. DO NOT CUT ANY REINFORCING THAT MAY CONFLICT. CORING IS NOT PERMITTED EXCEPT AS SHOWN. NOTIFY THE STRUCTURAL ENGINEER IN ADVANCE OF CONDITIONS NOT SHOWN ON THE DRAWINGS.
- CONDUIT OR PIPE SIZE (O.D.) SHALL NOT EXCEED 30% OF THE SLAB THICKNESS AND SHALL BE PLACED BETWEEN THE TOP AND BOTTOM REINFORCING UNLESS SPECIFICALLY DETAILED OTHERWISE. CONCENTRATIONS OF CONDUITS OR PIPES SHALL BE AVOIDED EXCEPT WHERE DETAILED OPENINGS ARE PROVIDED.
- CURING COMPOUNDS ON CONCRETE THAT IS TO RECEIVE SPECIAL FINISH SHALL BE APPROVED BY THE MANUFACTURER BEFORE USE.
- ROUGHEN SURFACE OF HORIZONTAL OR NEARLY HORIZONTAL CONSTRUCTION JOINTS SO THAT THE AGGREGATE SHALL BE EXPOSED UNIFORMLY, LEAVING NO LAITANCE, LOOSED PARTICLES OR DAMAGED CONCRETE.
- LOCATE JOINTS NOT INDICATED TO LEAST IMPAIR STRENGTH AND APPEARANCE OF THE STRUCTURE. LOCATE HORIZONTAL JOINTS IN CONCRETE ONLY WHERE THEY NORMALLY OCCUR OR WHERE INDICATED. LOCATE VERTICAL JOINTS IN MIDDLE THIRD OF SPANS OF SLABS, BEAMS, OR GIRDERS. BEAM INTERSECTS A GIRDER AT MIDDLE LOCATION, IN WHICH CASE OFFSET JOINTS IN GIRDERS TWICE THE WIDTH OF THE BEAM.
- ONCE FORMWORK HAS BEEN REMOVED FROM CONCRETE RETAINING WALLS, BRACE WALLS THOROUGHLY BEFORE PLACING SOIL AGAINST WALL AND KEEP BRACING IN PLACE FOR A MINIMUM OF 7 DAYS AFTER EARTHWORK IS COMPLETE.

REINFORCING

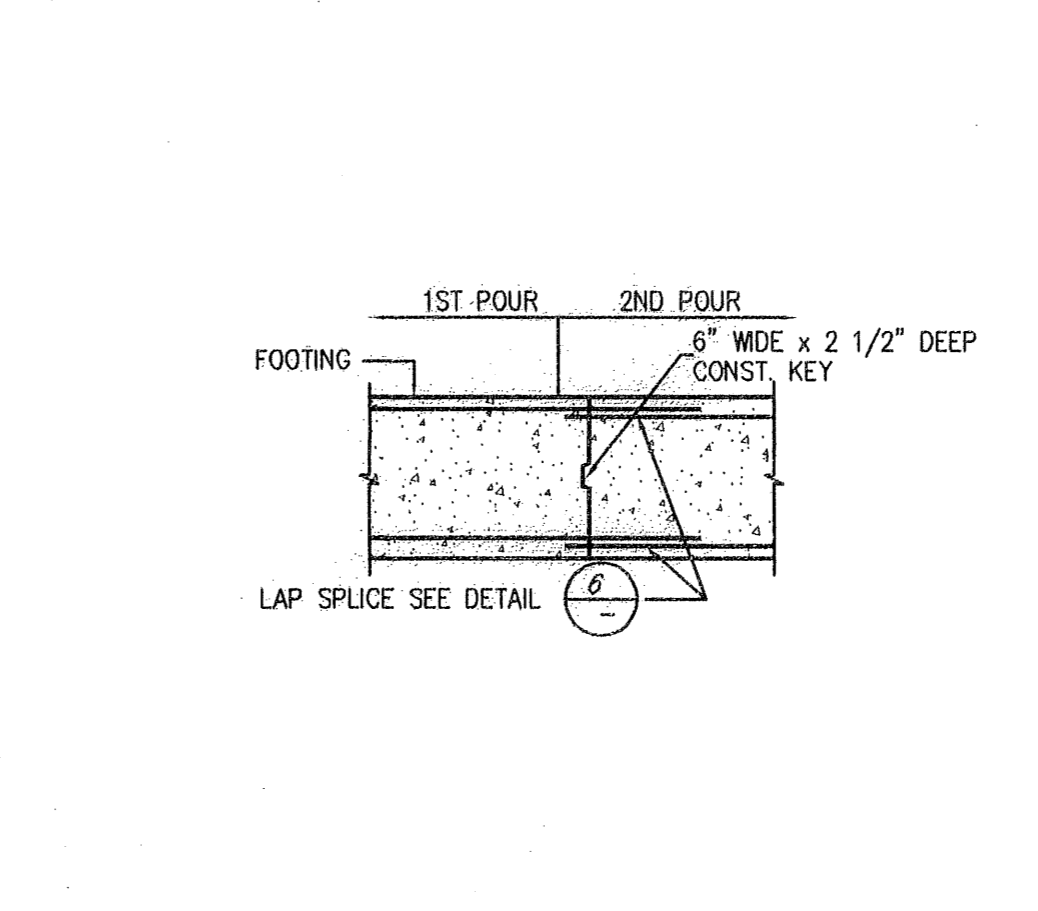
- REINFORCING SHALL BE DETAILED AND PLACED IN CONFORMANCE WITH ACI DETAILING MANUAL.
- REINFORCING BARS SHALL CONFORM TO THE REQUIREMENTS OF ASTM A-615 GRADE 60 EXCEPT ALL REINFORCING IN CONCRETE MOMENT FRAMES AND SHEAR WALLS AND ALL WELDED REINFORCEMENT SHALL CONFORM TO ASTM A708 GRADE 60.
- REINFORCING STEEL IN ALL CONCRETE WALLS AND FOOTINGS SHALL BE CONTINUOUS AROUND CORNERS.
- MINIMUM LAP OF WELDED WIRE FABRIC SHALL BE 6" OR ONE FULL MESH + 2", WHICHEVER IS GREATER.
- DOWELS BETWEEN FOOTINGS AND WALLS SHALL BE THE GRADE, SIZE AND SPACING OR NUMBER AS THE VERTICAL REINFORCING, RESPECTIVELY.
- REINFORCING STEEL IN ALL CONCRETE WALLS AND FOOTINGS SHALL BE CONTINUOUS AROUND CORNERS.
- PROVIDE (2) #5 EXTRA REINFORCING BARS AROUND ALL SIDE OF OPENINGS IN CONCRETE, UNLESS NOTED OTHERWISE ON THE PLANS. EXTEND BARS 2'-0" BEYOND EACH EDGE OF OPENING.
- MINIMUM CLEAR COVERAGE OF CONCRETE OVER REINFORCEMENT SHALL BE:
a. CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH ...3".
b. CONCRETE EXPOSED TO EARTH OR WEATHER:
i. NO. 6 THROUGH NO. 18 BAR2"
ii. NO. 5 BAR, W31 OR D31 WIRE OR SMALLER1 1/2"
c. CONCRETE NOT EXPOSED TO WEATHER OR IN CONTACT WITH GROUND:
i. SLABS WALLS AND JOISTS NO. 14 & NO. 181 1/2"
ii. SLABS WALLS AND JOISTS NO. 11 & SMALLER3/4"
iii. BEAMS, COLUMNS; TIES AND PRIMARY REINFORCING1 1/2"

JOIST AND JOIST GIRDER

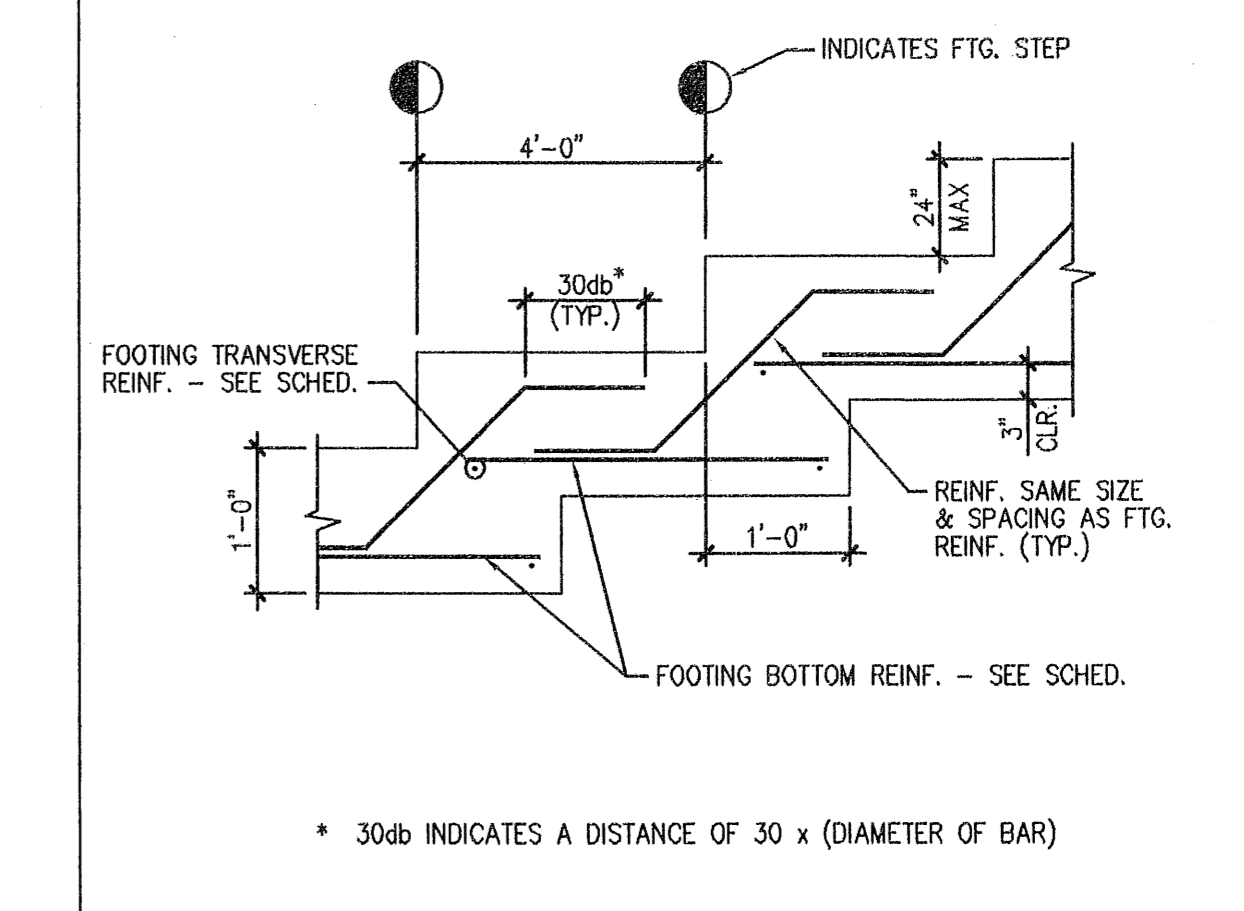
- PROVIDE OPEN WEB UNDER SLUNG, PARALLEL CHORD JOISTS AND JOIST GIRDERS UNLESS NOTED OTHERWISE ON THE DRAWINGS.
- DESIGN, FABRICATE, AND ERECT OPEN WEB STEEL JOISTS AND JOIST GIRDERS TO THE SPECIFICATIONS OF THE STEEL JOIST INSTITUTE, LATEST EDITION.
- UNLESS NOTED OTHERWISE, WELD K-SERIES JOISTS TO SUPPORTING BEAMS OR BEARING PLATES WITH 3/16 INCH FILLET WELD, 1-1/2 INCHES LONG ON EACH SIDE OF JOIST SEAT. USE MINIMUM OF 2-3/4 INCH DIAMETER A325N BOLTS AT JOIST CONNECTIONS ON OR NEAREST TO COLUMN LINES.
- UNLESS NOTED OTHERWISE, WELD LH OR DLH-SERIES JOISTS TO SUPPORTING BEAMS OR BEARING PLATES WITH 1/4 INCH FILLET WELD, 2 INCHES LONG ON EACH SIDE OF JOIST SEAT. USE MINIMUM OF 2-3/4 INCH DIAMETER A325N CONNECTION BOLTS AT JOIST CONNECTIONS ON OR NEAREST TO COLUMN LINES.
- PROVIDE JOIST BRIDGING, SIZE AND SPACING, IN ACCORDANCE WITH STEEL JOIST INSTITUTE. PROVIDE SUPPLEMENTAL BRIDGING AS REQUIRED FOR NET WIND UPLIFT CONDITION.
- JOIST AND JOIST GIRDER SIZES AS SHOWN ON DRAWINGS ARE BASED ON GRAVITY LOAD CAPACITIES. DESIGN JOISTS AND JOIST GIRDERS FOR THE GRAVITY LOAD CAPACITIES IN ADDITION TO OTHER LOADS (UPLIFT, AXIAL LOADS, CONCENTRATED LOADS, MOMENTS, ETC.) AS INDICATED ON DRAWINGS.
- SHOP DRAWINGS FOR JOISTS, JOIST ACCESSORIES, JOIST GIRDERS AND JOIST GIRDER ACCESSORIES TO BE PREPARED BY THE JOIST MANUFACTURER'S DETAILERS.
- SUBMIT DESIGN CALCULATIONS IN ACCORDANCE WITH STEEL JOIST INSTITUTE DESIGN STANDARDS FOR ALL JOIST AND JOIST GIRDERS. DESIGN CALCULATIONS TO BE SIGNED AND SEALED BY A PROFESSIONAL ENGINEER LICENSED IN THE STATE WHERE THE PROJECT IS LOCATED.
- PROVIDE 2-1/2 INCH MINIMUM BEARING ON STRUCTURAL STEEL FOR K-SERIES JOISTS, 4 INCH MINIMUM BEARING ON MASONRY OR PROVIDE BEARING LENGTHS PER STEEL JOIST INSTITUTE REQUIREMENTS UNLESS GREATER LENGTHS ARE SHOWN ON DRAWINGS.
- VERIFY SIZE, WEIGHT, LOCATION AND CONFIGURATION OF ALL ROOF TOP EQUIPMENT WITH THE ARCHITECT AND MECHANICAL ENGINEER. COORDINATE OPENINGS WITH THE MECHANICAL AND GENERAL CONTRACTOR.
- ALL CONCENTRATED LOADS GREATER THAN 100 POUNDS SUPPORTED BY OPEN WEB STEEL JOISTS AND GIRDERS SHALL BE LOCATED WITHIN 6 INCHES OF JOIST OR GIRDER PANEL POINTS OR THE JOIST OR GIRDER SHALL BE REINFORCED WITH AN ADDITIONAL WEB MEMBER. REFER TO THE "TYPICAL JOIST MODIFICATION DETAIL" ON THE STRUCTURAL DRAWINGS.
- PROVIDE SPECIAL BEARING ENDS TO ACCOMMODATE SLOPES FROM SLOPED JOISTS, SLOPED GIRDERS OR SLOPED BEARING CONDITIONS.



2 CONTROL / CONST. JOINT
SCALE: 3/4"=1'-0"



3 FOOTING CONST. JOINT
SCALE: 3/4"=1'-0"



4 FOOTING STEP DETAIL
SCALE: 3/4"=1'-0"

REINFORCING EMBEDMENT / DEVELOPMENT LENGTH

BAR SIZE	$f'c = 3000$ PSI		$f'c = 4000$ PSI		$f'c = 5000$ PSI	
	Ld	Ldh	Ld	Ldh	Ld	Ldh
#3	18 1/2"	8 1/2"	14 1/2"	8"	13"	7"
#4	22"	11"	19"	10"	17"	9"
#5	28"	14"	24"	12"	22"	11"
#6	33"	17"	29"	15"	26"	13"
#7	48"	20"	42"	17"	38"	15"
#8	55"	22"	48"	19"	43"	17"
#9	62"	25"	54"	22"	48"	20"
#10	70"	28"	61"	25"	54"	22"
#11	78"	31"	67"	27"	60"	24"

HOOK BAR DETAILS

5 DEVELOPMENT LENGTH SCHEDULE
SCALE: N.T.S.

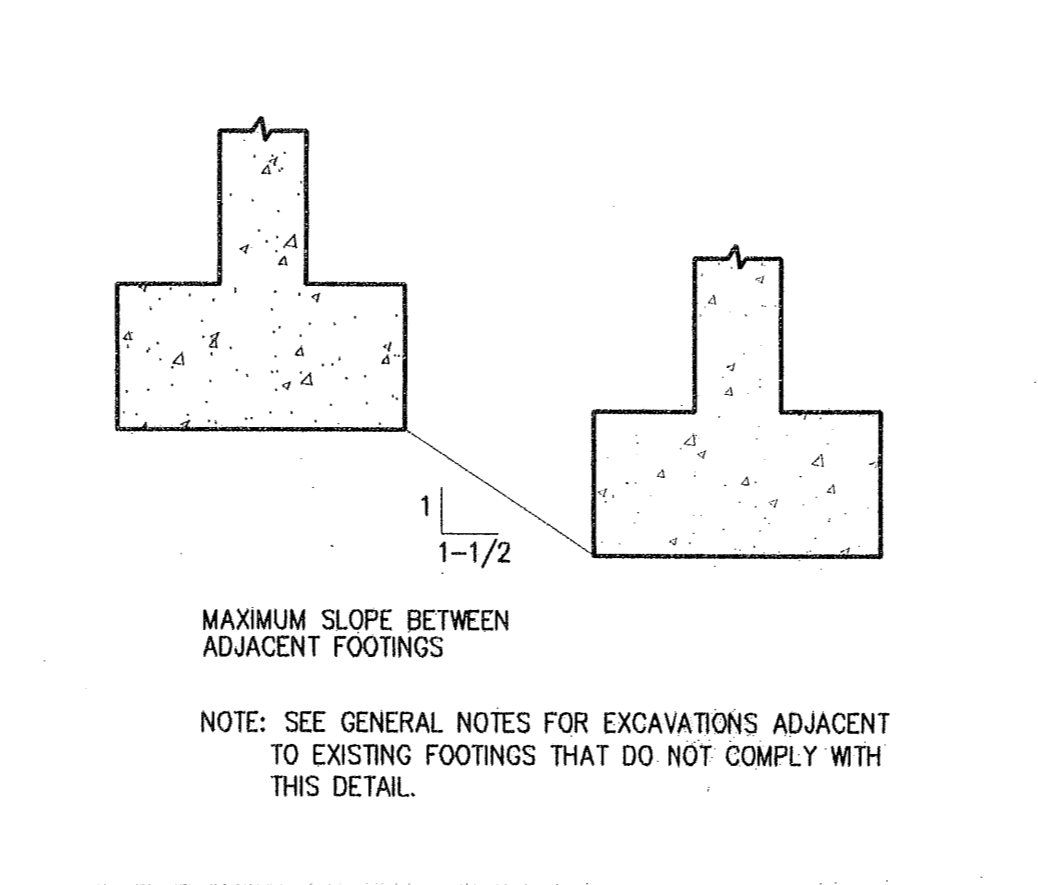
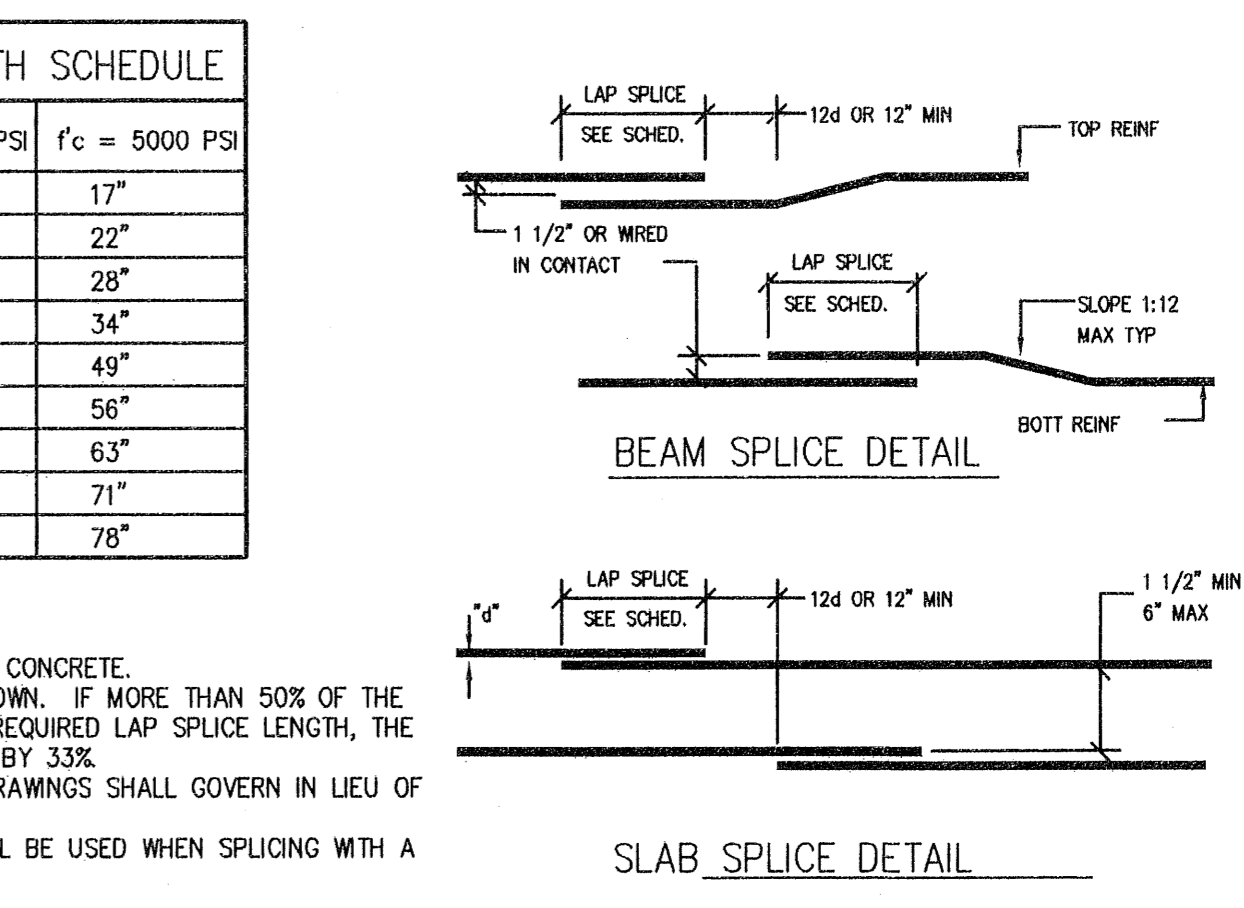
REINFORCING LAP SPLICE LENGTH SCHEDULE

BAR SIZE	$f'c = 3000$ PSI		$f'c = 4000$ PSI		$f'c = 5000$ PSI	
	Ld	Ldh	Ld	Ldh	Ld	Ldh
#3	22"	19"	19"	17"	17"	15"
#4	29"	25"	25"	22"	22"	19"
#5	36"	31"	31"	28"	28"	24"
#6	43"	38"	38"	34"	34"	29"
#7	63"	54"	54"	49"	49"	41"
#8	72"	62"	62"	56"	56"	47"
#9	81"	70"	70"	63"	63"	53"
#10	91"	79"	79"	71"	71"	59"
#11	101"	87"	87"	78"	78"	65"

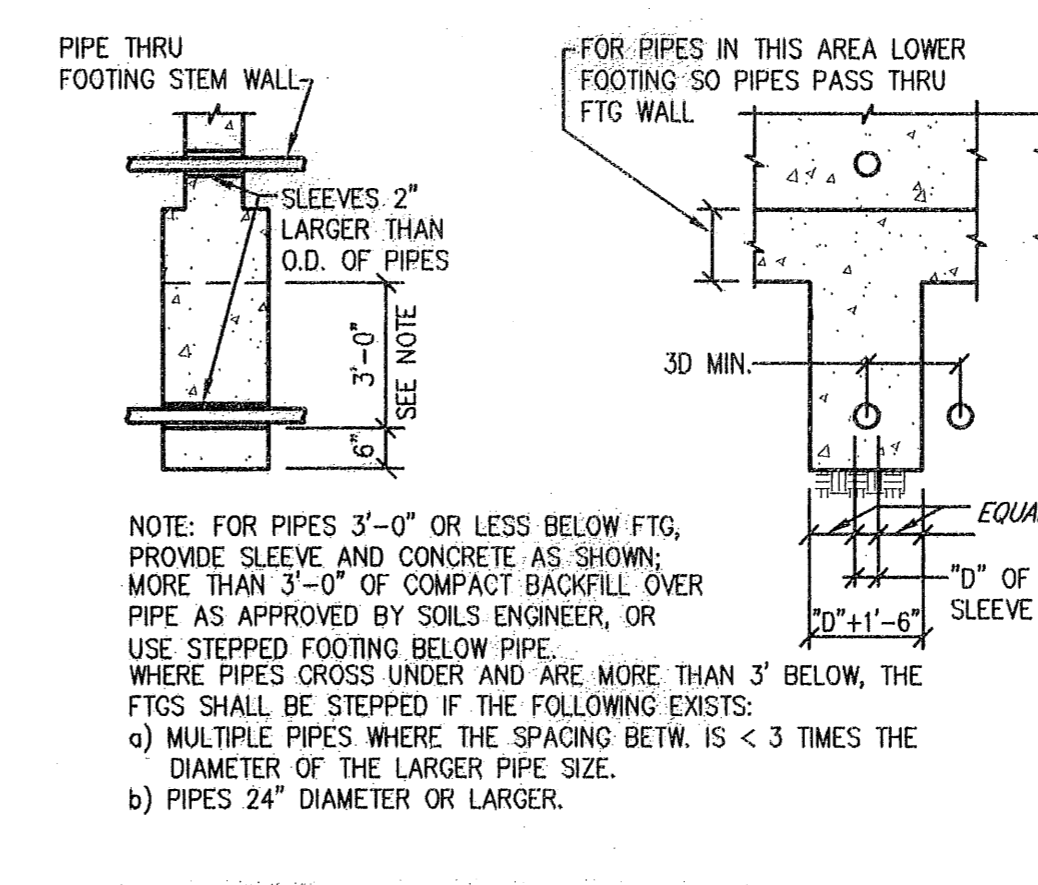
NOTES:

- $F_y = 60$ ksi
- SPLICE LENGTHS ARE FOR NORMAL WEIGHT CONCRETE.
- ALL SPLICES SHALL BE STAGGERED AS SHOWN. IF MORE THAN 50% OF THE REINFORCING IS LAP SPliced WITHIN THE REQUIRED LAP SPLICE LENGTH, THE LAP SPLICE LENGTH SHALL BE INCREASED BY 33%.
- LAP LENGTHS SPECIFICALLY DETAILED IN DRAWINGS SHALL GOVERN IN LIEU OF SCHEDULE.
- SMALLER BAR REQUIRED LAP LENGTH SHALL BE USED WHEN SPLICING WITH A LARGER BAR.

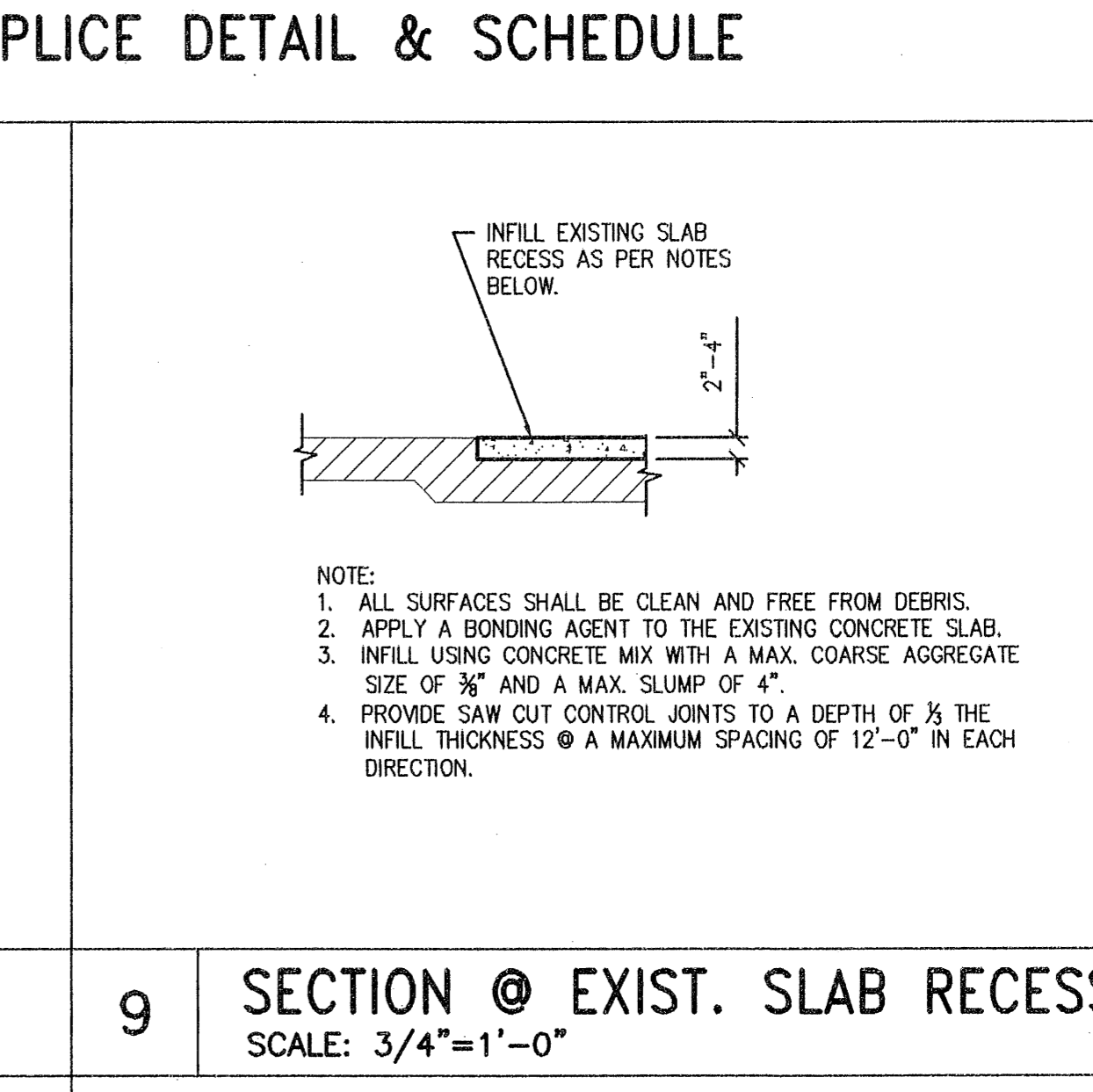
6 REINF. LAP SPLICE DETAIL & SCHEDULE
SCALE: N.T.S.



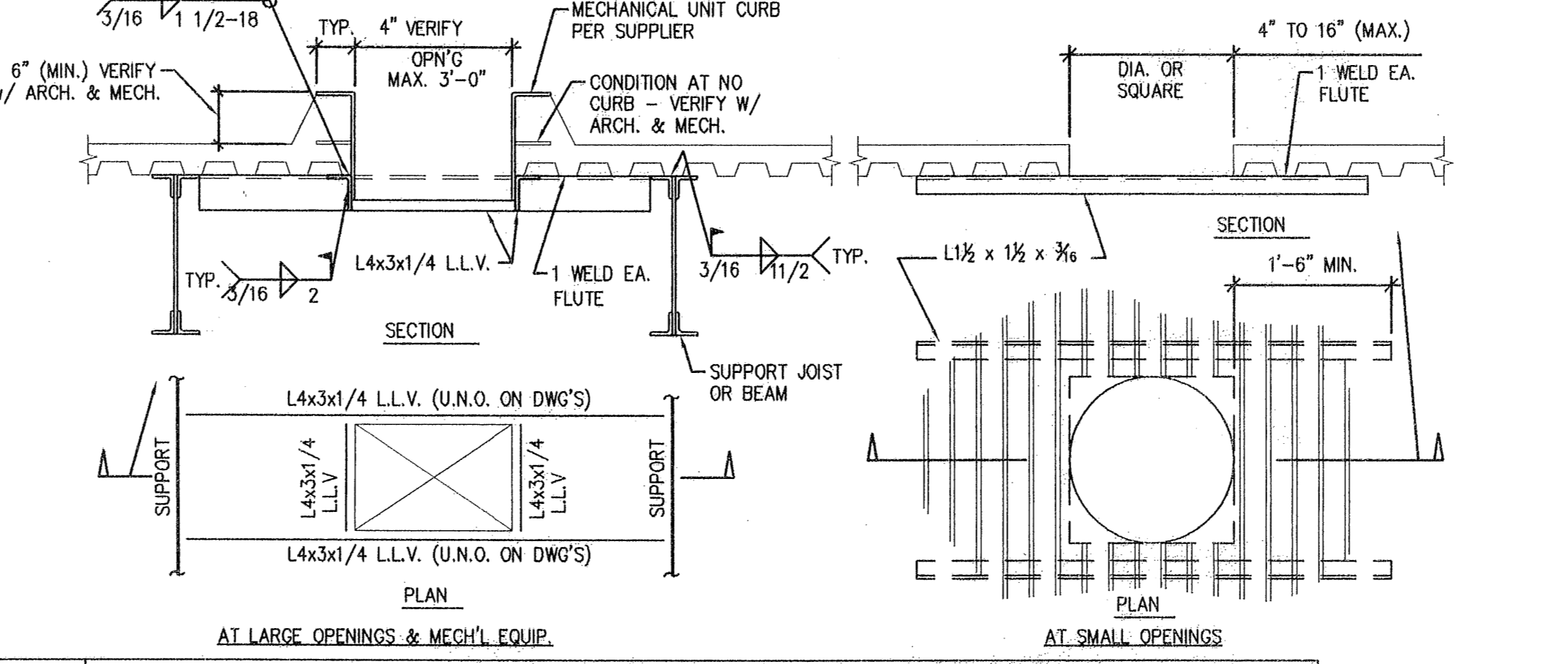
7 ADJACENT FOOTING DETAIL
SCALE: 3/4"=1'-0"



8 PIPE AT FOOTING LOCATION
SCALE: 3/4"=1'-0"

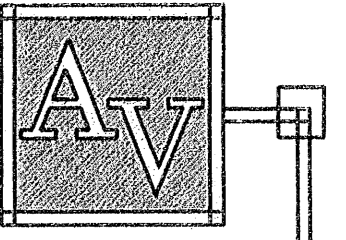


9 SECTION @ EXIST. SLAB RECESS
SCALE: 3/4"=1'-0"



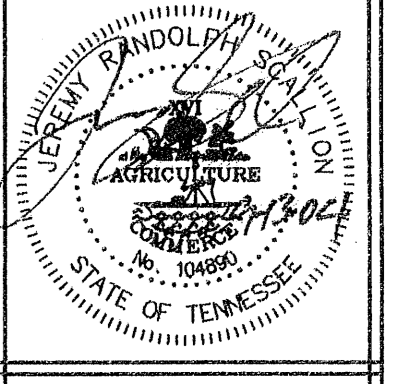
10 TYP. ROOF DECK OPENING & RTU SUPPORT DETAILS
SCALE: 3/4"=1'-0"

1 GENERAL NOTES
SCALE: 3/4"=1'-0"



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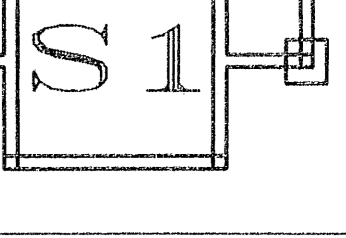
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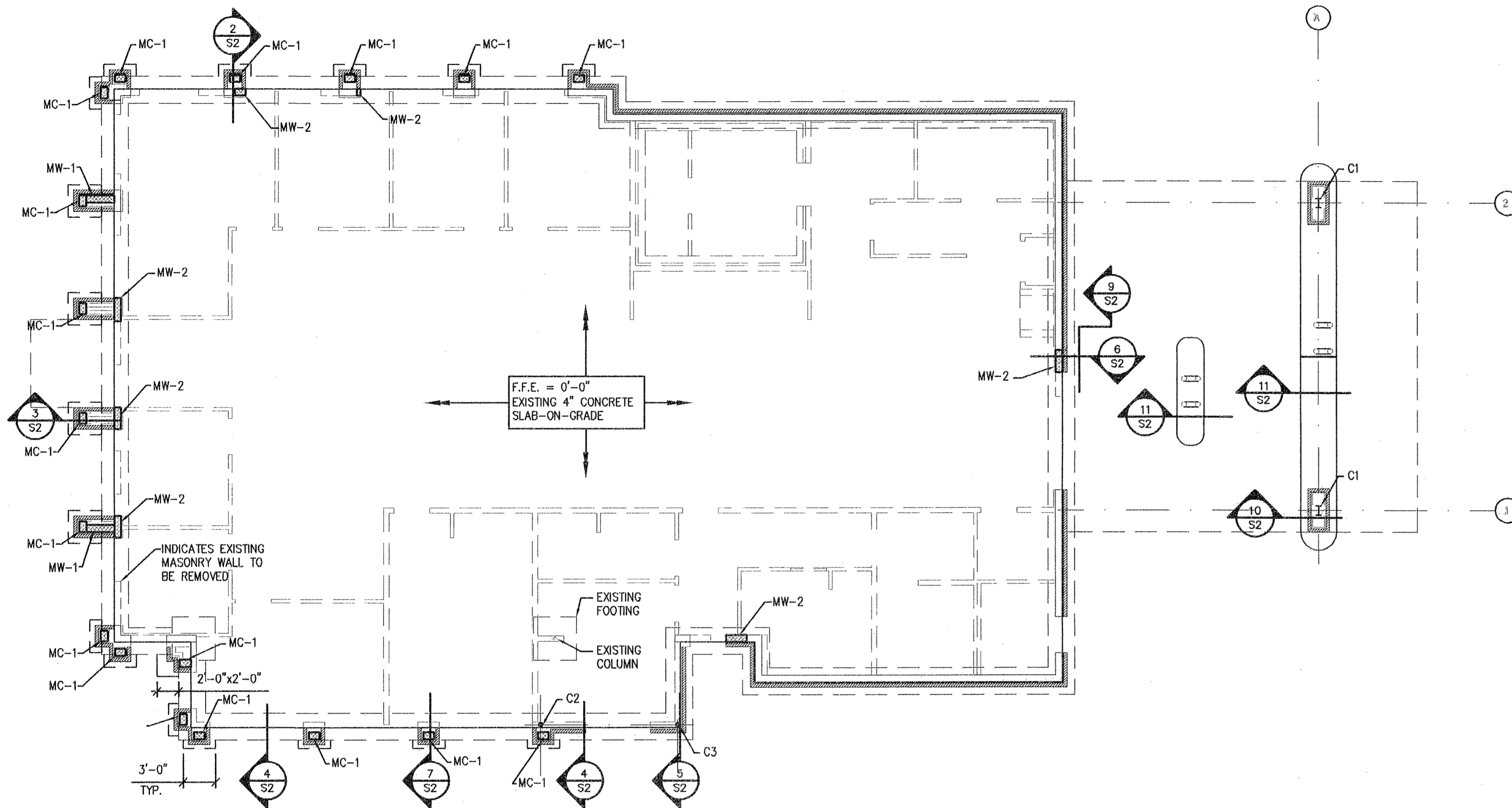


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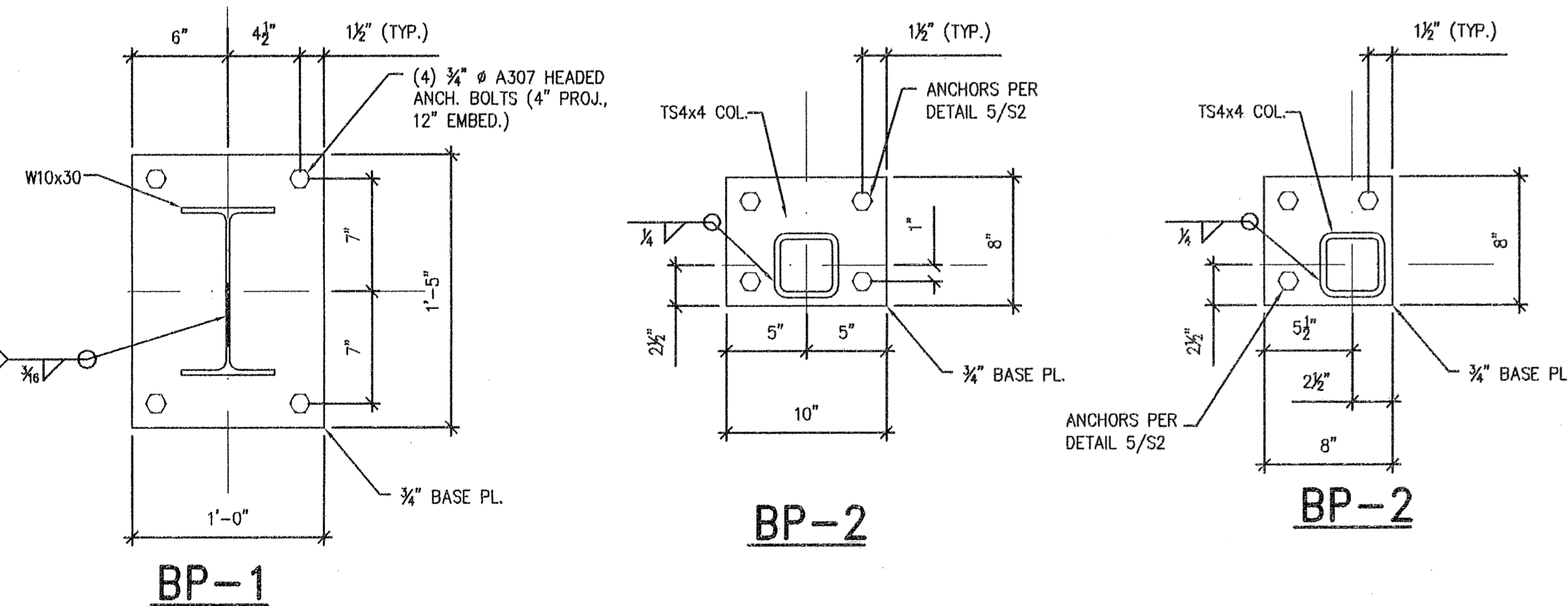


- NOTES:**
- SEE S1 FOR GENERAL NOTES & TYPICAL DETAILS.
 - TOP OF FOOTING = (-2'-0") U.N.O.
 - STEP FOOTING AS REQ'D TO MAINTAIN 1'-0" MIN. COVER. SEE 4/S1 FOR STEP FOOTING DETAIL.
 - MW-x INDICATES MASONRY WALL. SEE MASONRY WALL SCHEDULE THIS SHEET.
 - MC-1 INDICATES 8"x16" MASONRY COLUMN w/ (2) #5 VERT. & #3 TIES @ 16" o.c.
 - SEE DETAIL 9/S1 FOR DETAIL @ EXISTING RECESSED SLAB LOCATIONS.

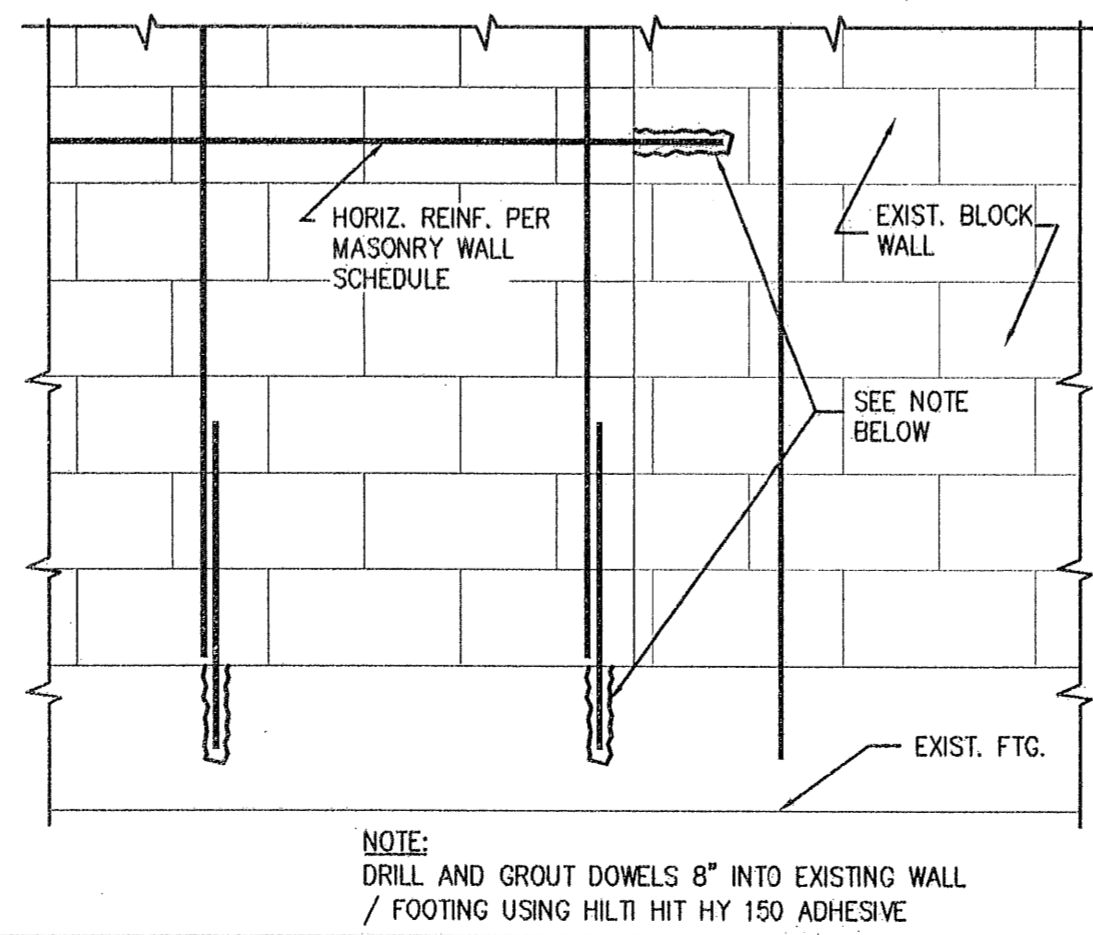
MASONRY WALL SCHEDULE					
MARK	THICKNESS	f'm	VERTICAL REINFORCING	HORIZONTAL REINFORCING	JOINT REINFORCING
MW-1	6"	1500 psi	#4 @ 48" o.c.	NONE	STD. DUR-O-WALL @ 16" o.c.
MW-2	8"	1500 psi	#5 @ 32" o.c.	#5 @ 72" o.c.	STD. DUR-O-WALL @ 16" o.c.

COLUMN SCHEDULE			
MARK	COLUMN	BASE PL.	REMARKS
C-1	W10x30	BP-1	
C-2	TS4x4x3/8	BP-2	
C-2	TS4x4x3/8	BP-3	

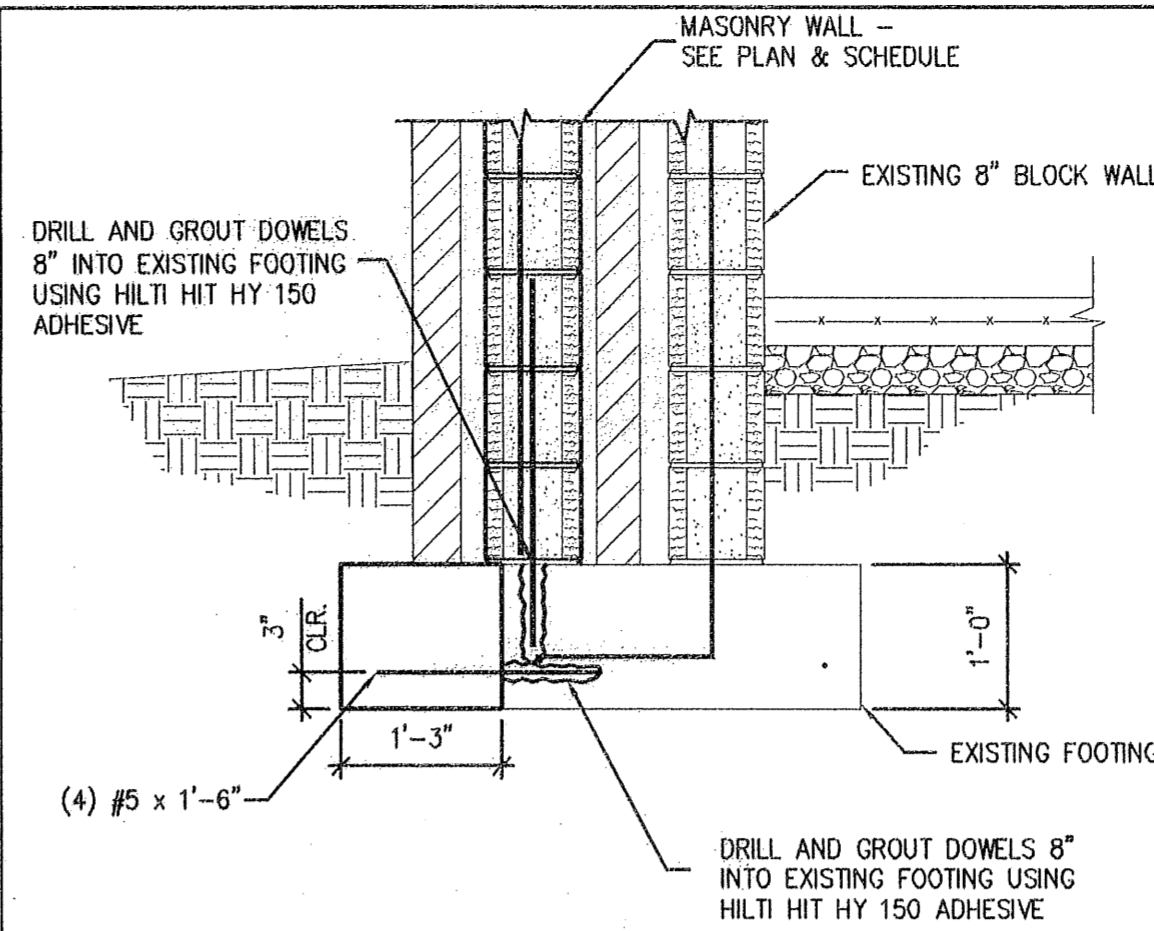
1 FOUNDATION PLAN
SCALE: 1/8" = 1'-0"



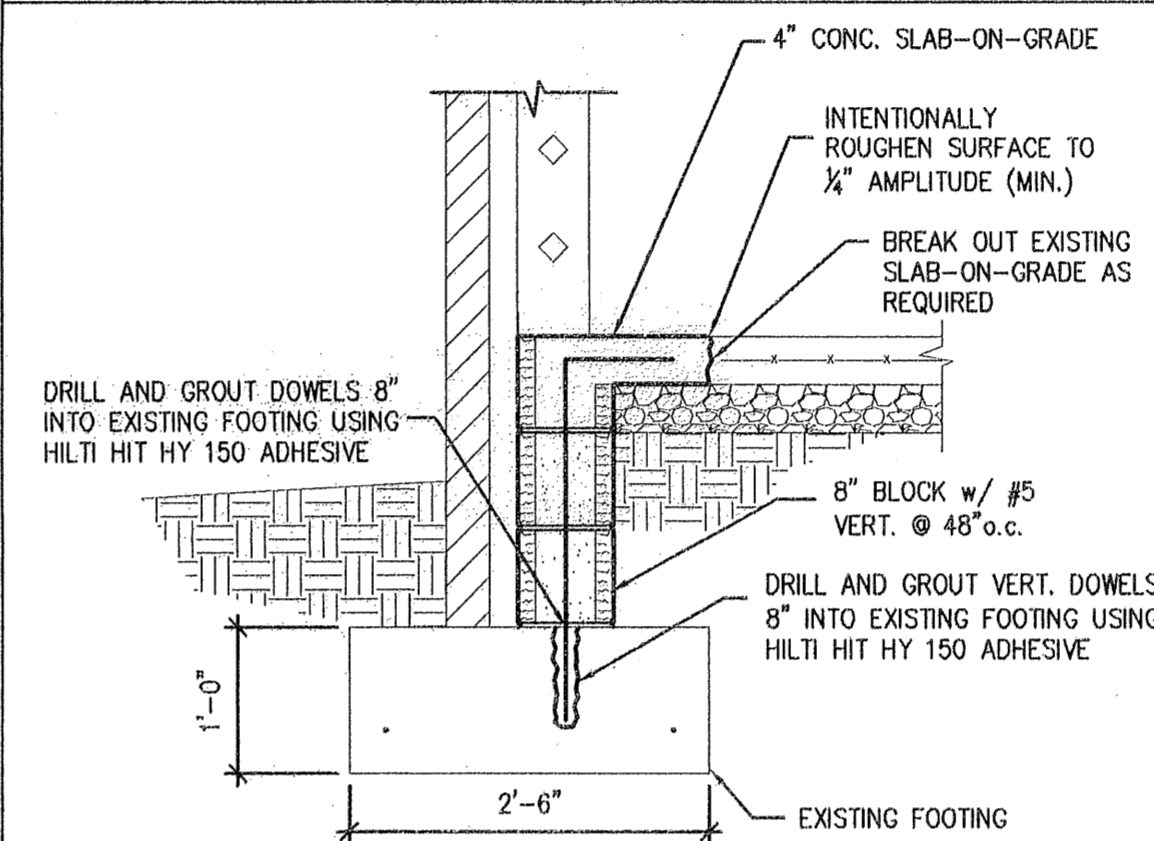
8 BASE PLATE DETAILS
SCALE: 1/2" = 1'-0"



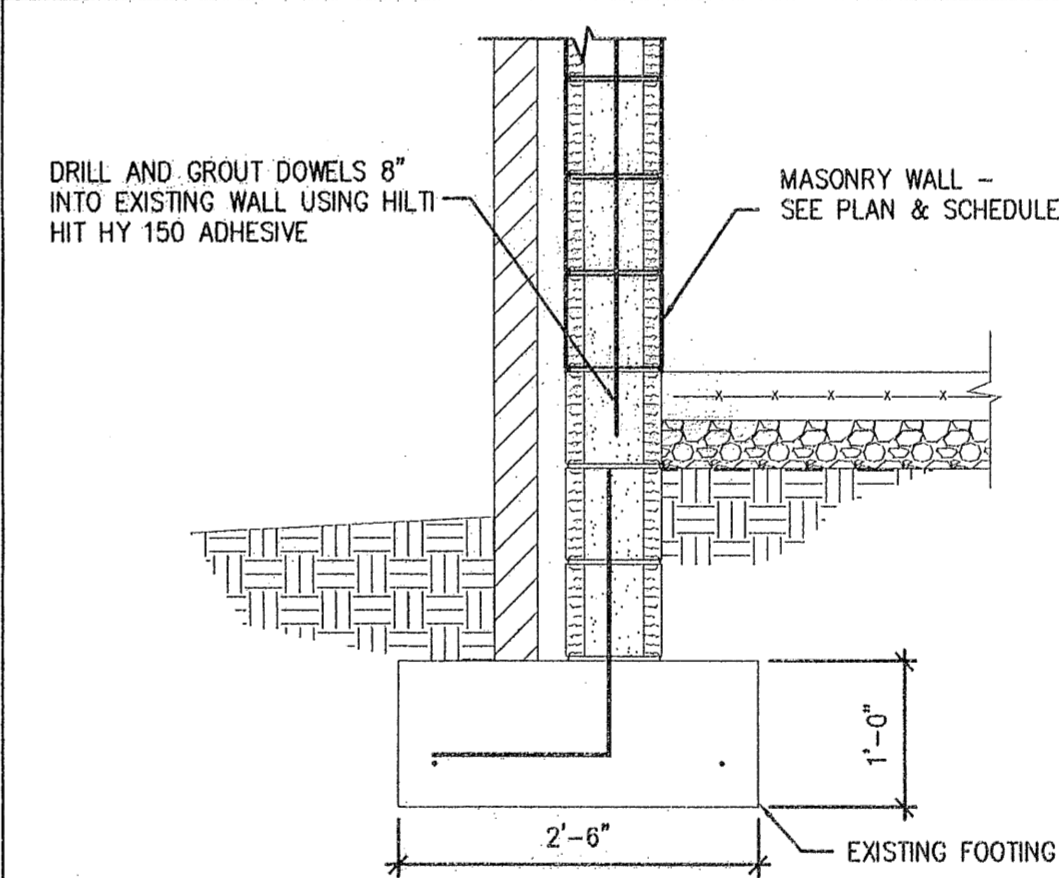
9 SECTION @ MASONRY WALL
SCALE: 3/4" = 1'-0"



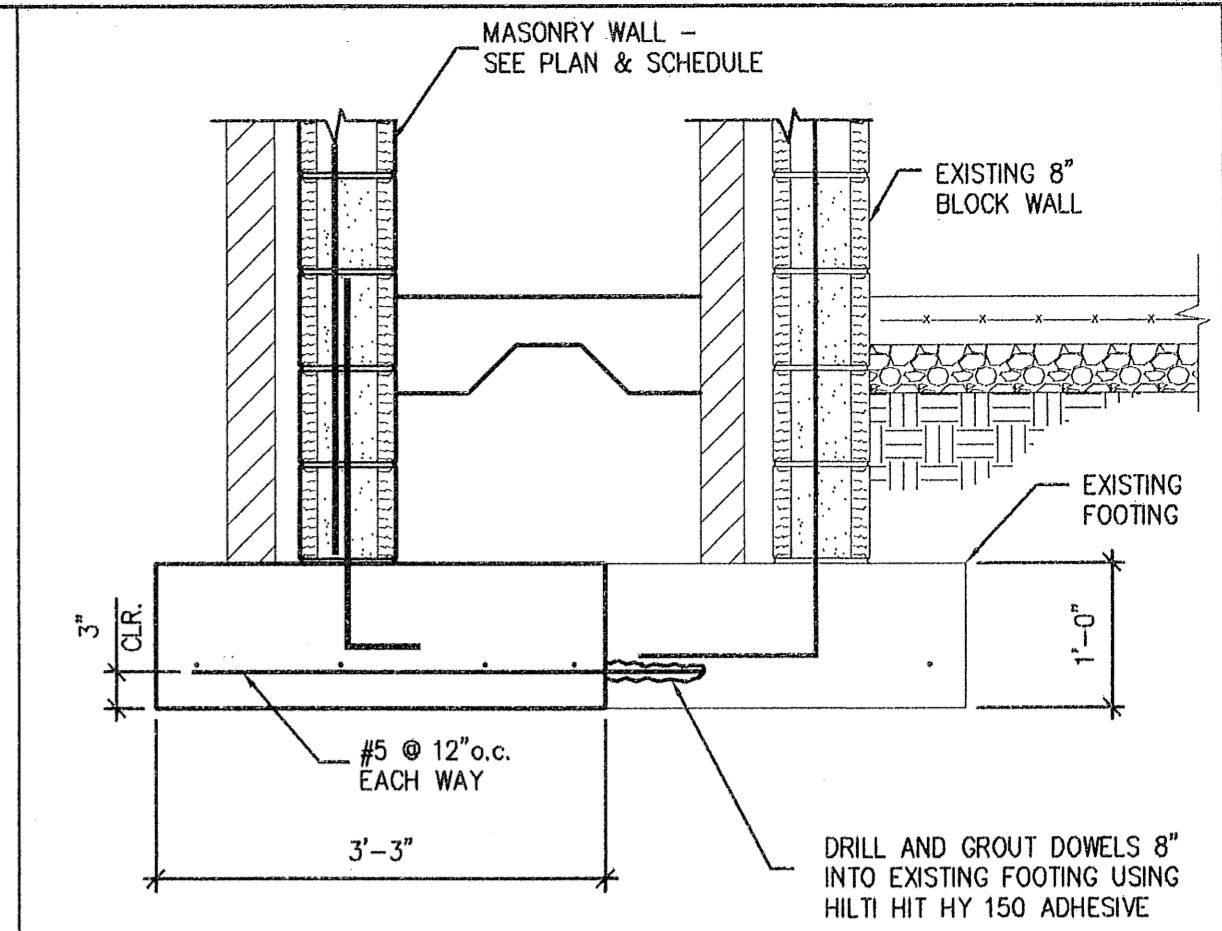
2 SECTION @ EXISTING
SCALE: 3/4" = 1'-0"



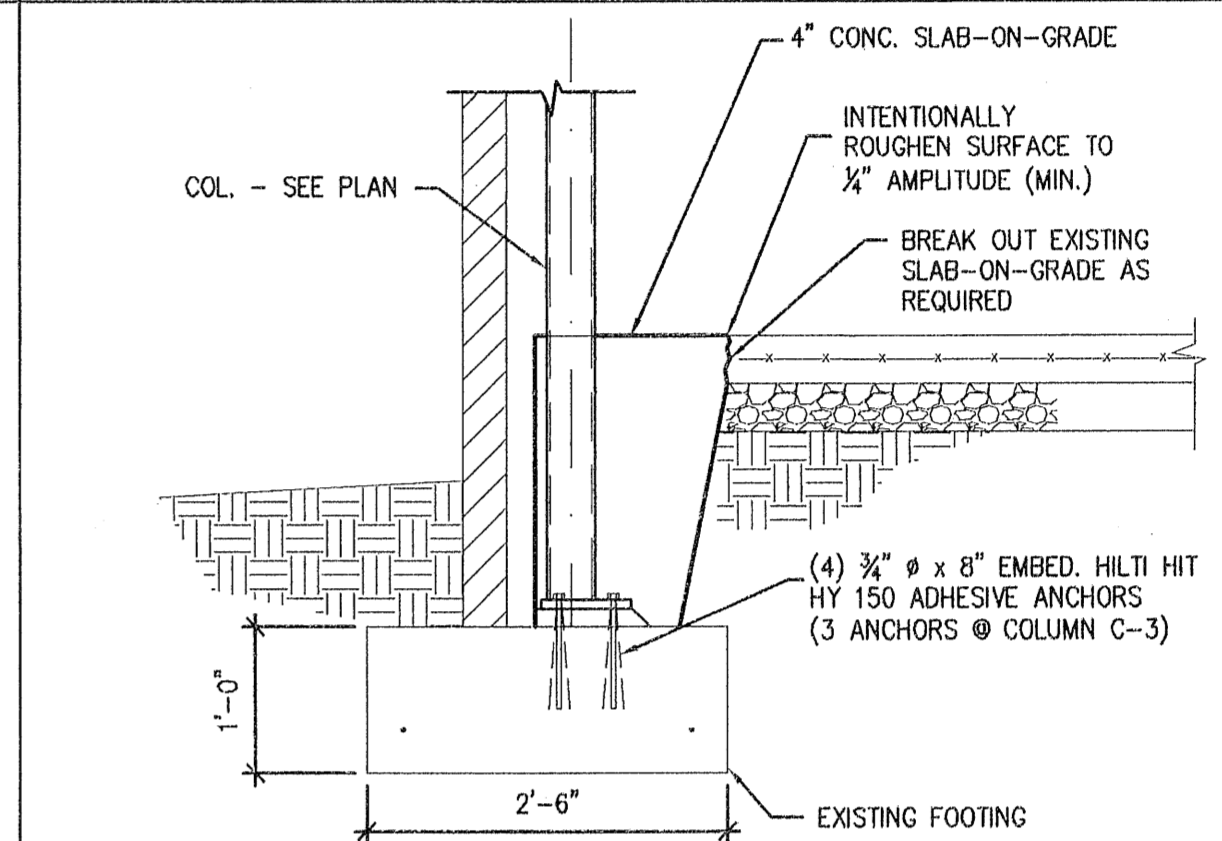
4 SECTION @ EXISTING
SCALE: 3/4" = 1'-0"



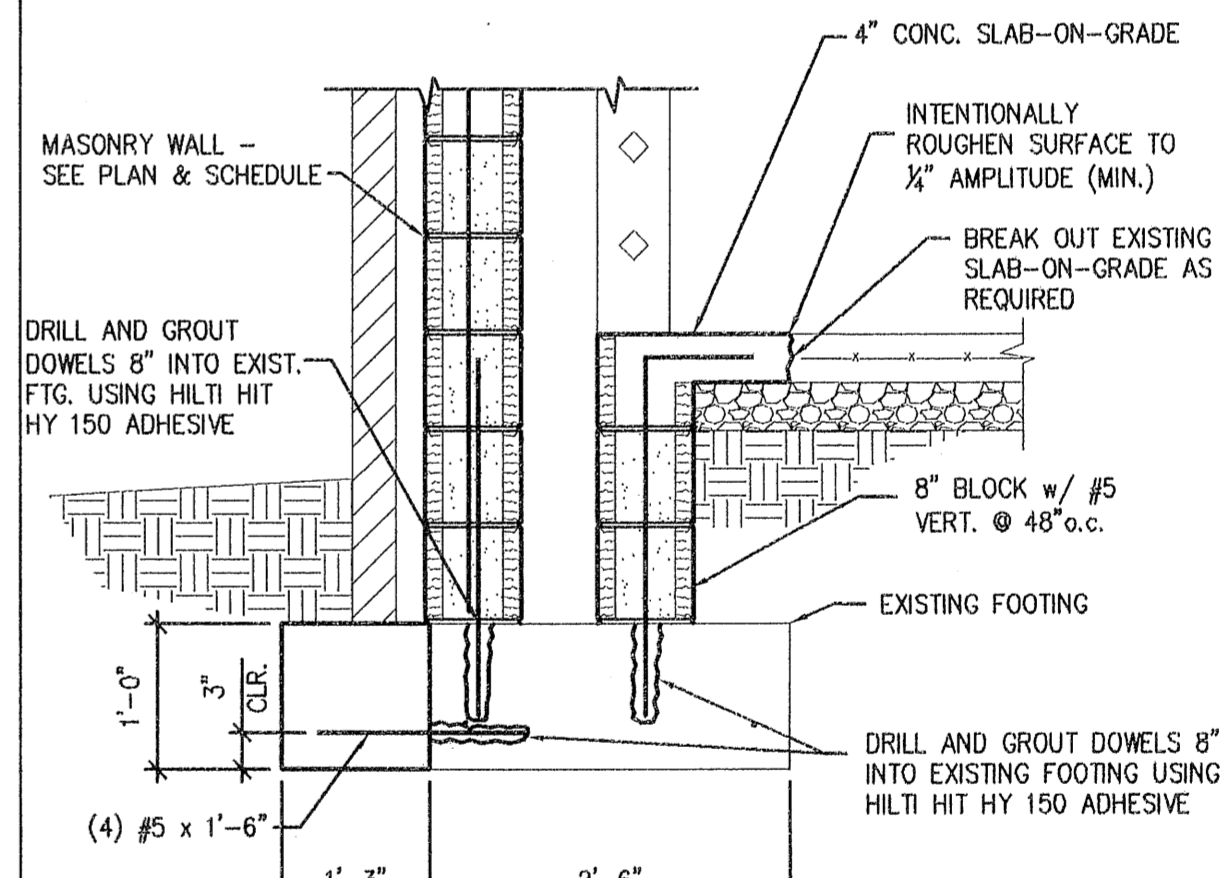
6 SECTION @ MASONRY INFILL
SCALE: 3/4" = 1'-0"



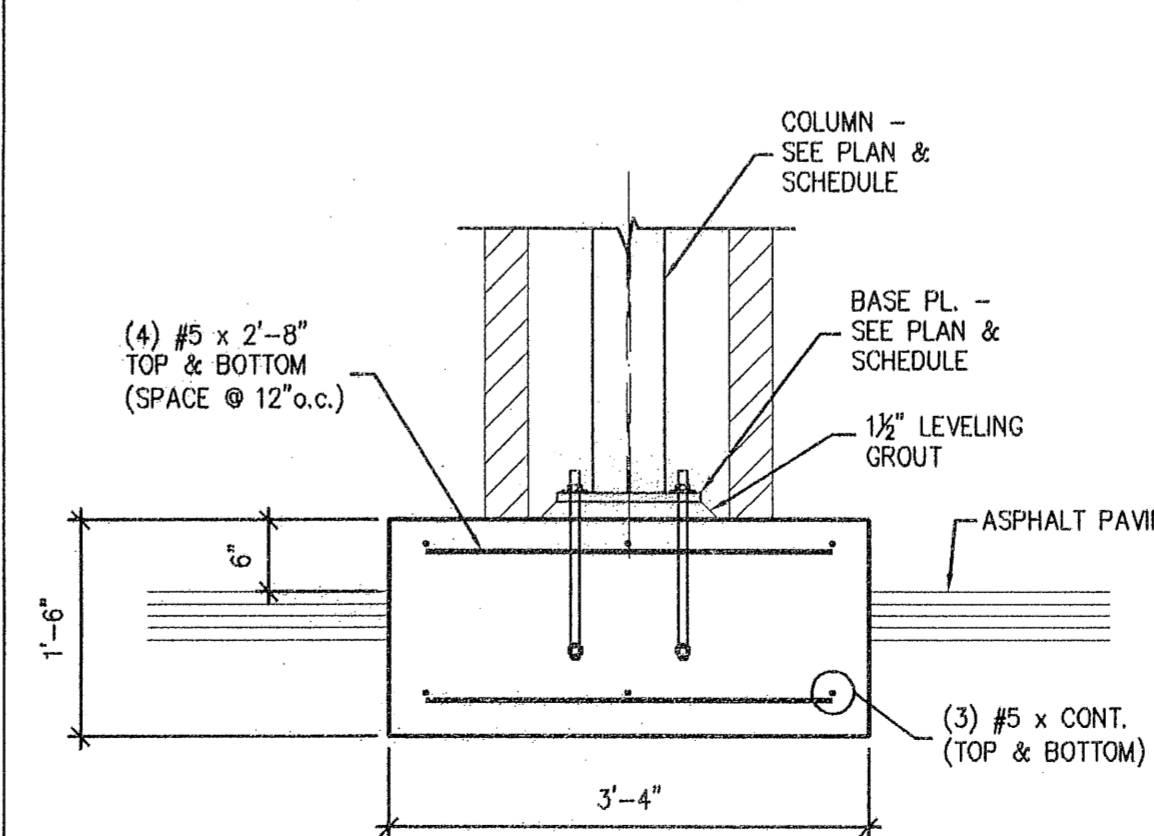
3 SECTION @ EXISTING
SCALE: 3/4" = 1'-0"



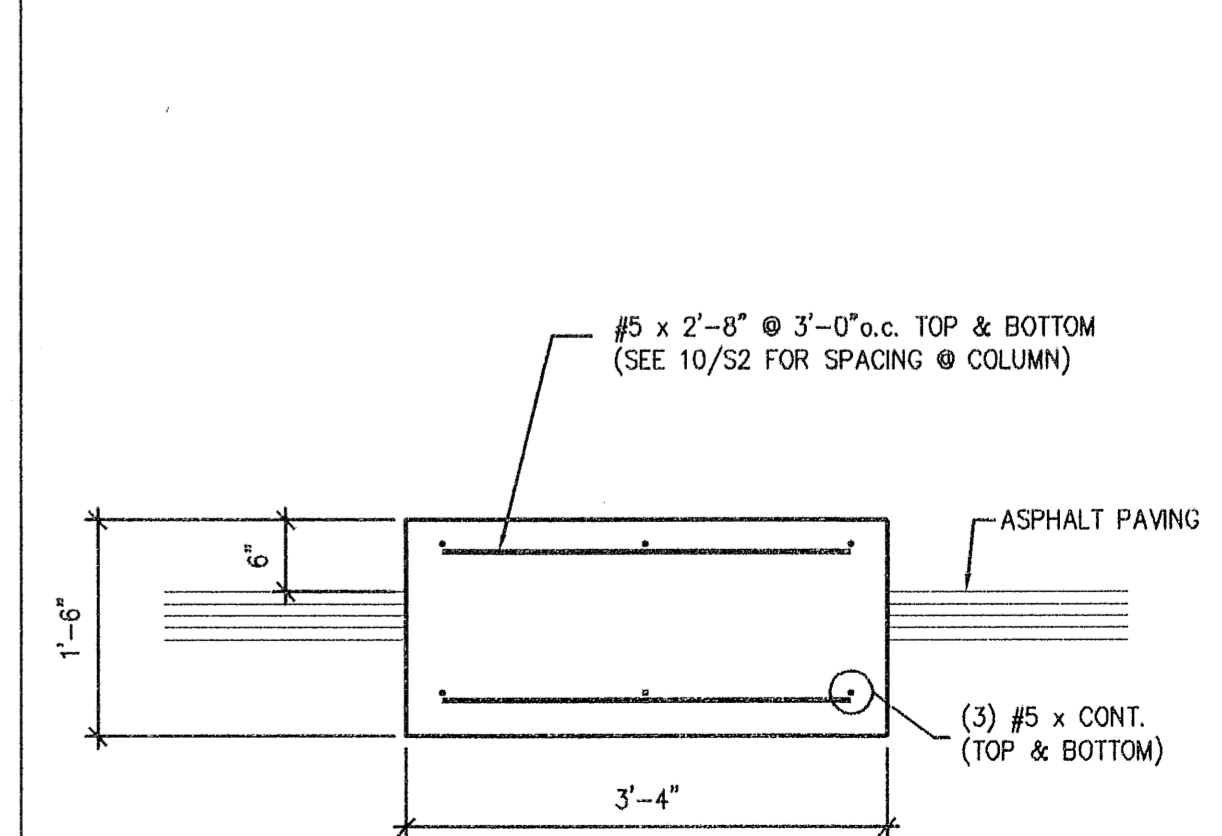
5 SECTION @ COLUMN
SCALE: 3/4" = 1'-0"



7 SECTION @ EXISTING
SCALE: 3/4" = 1'-0"



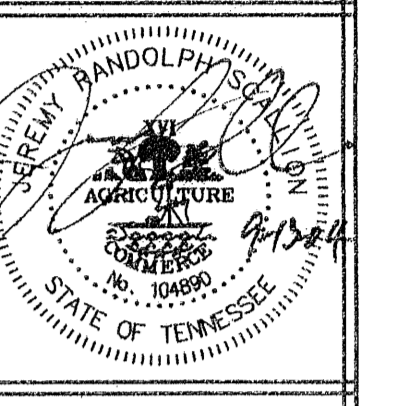
10 SECTION @ DRIVE THRU COL.
SCALE: 3/4" = 1'-0"



11 SECTION @ ISLAND
SCALE: 3/4" = 1'-0"

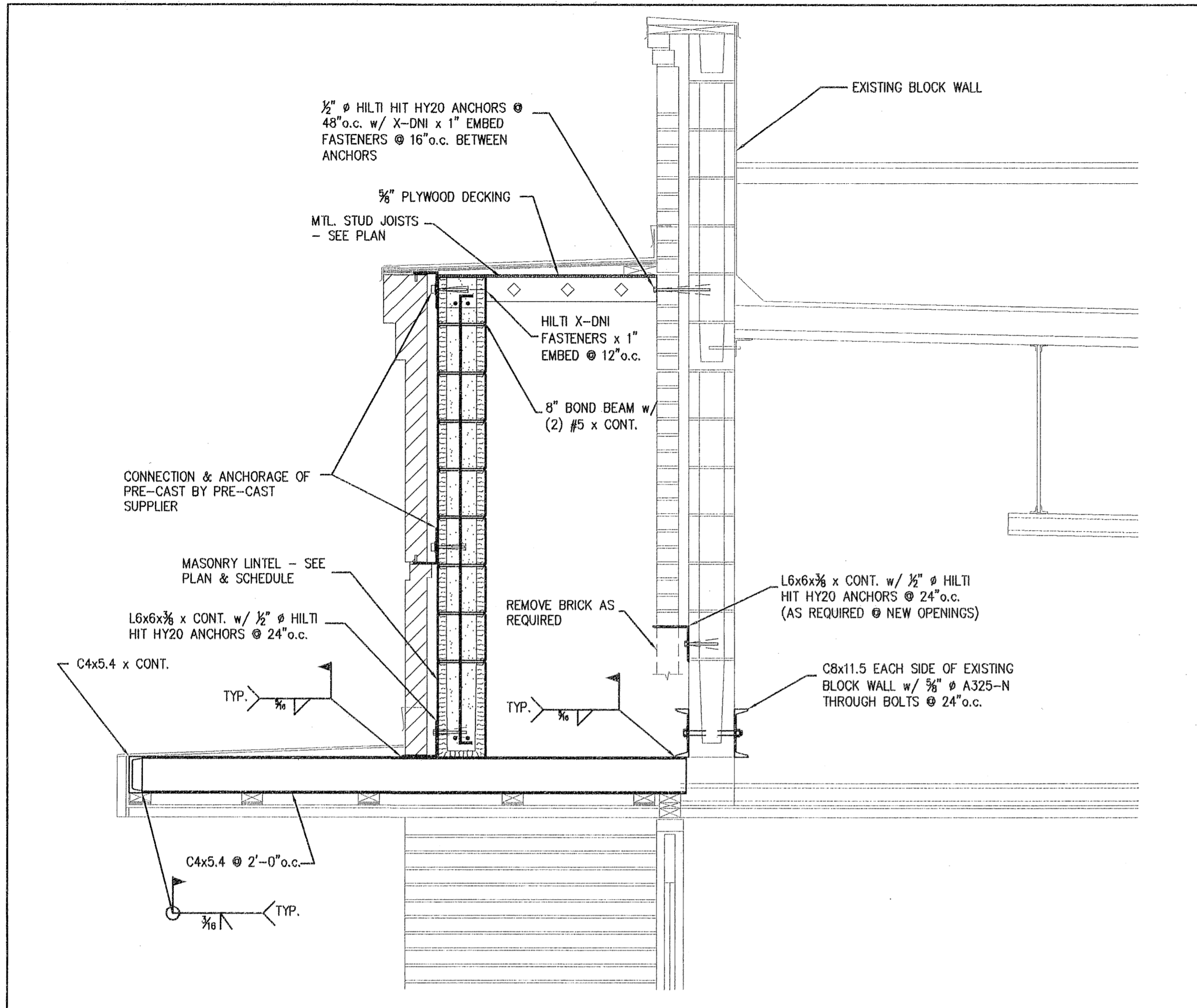
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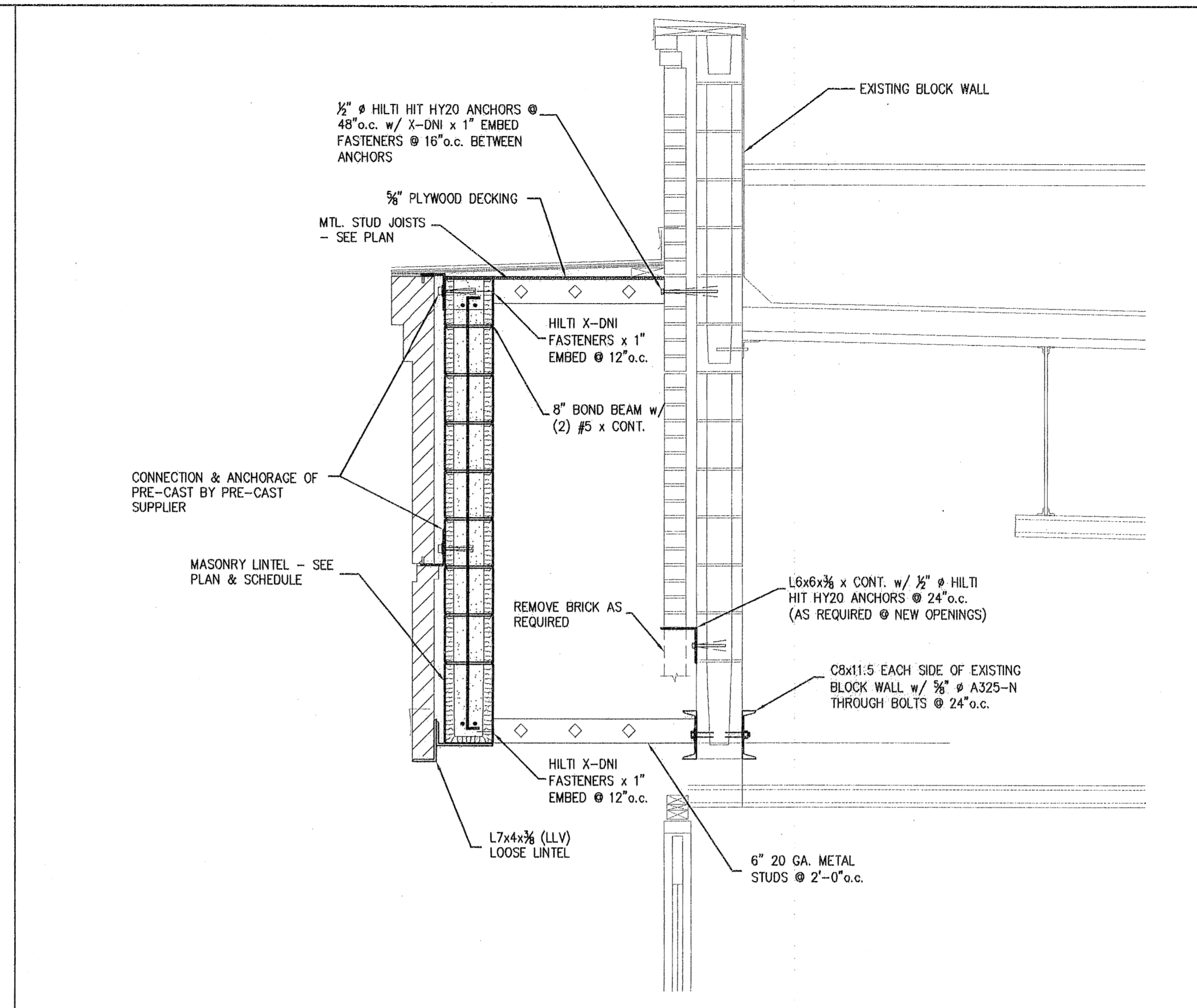


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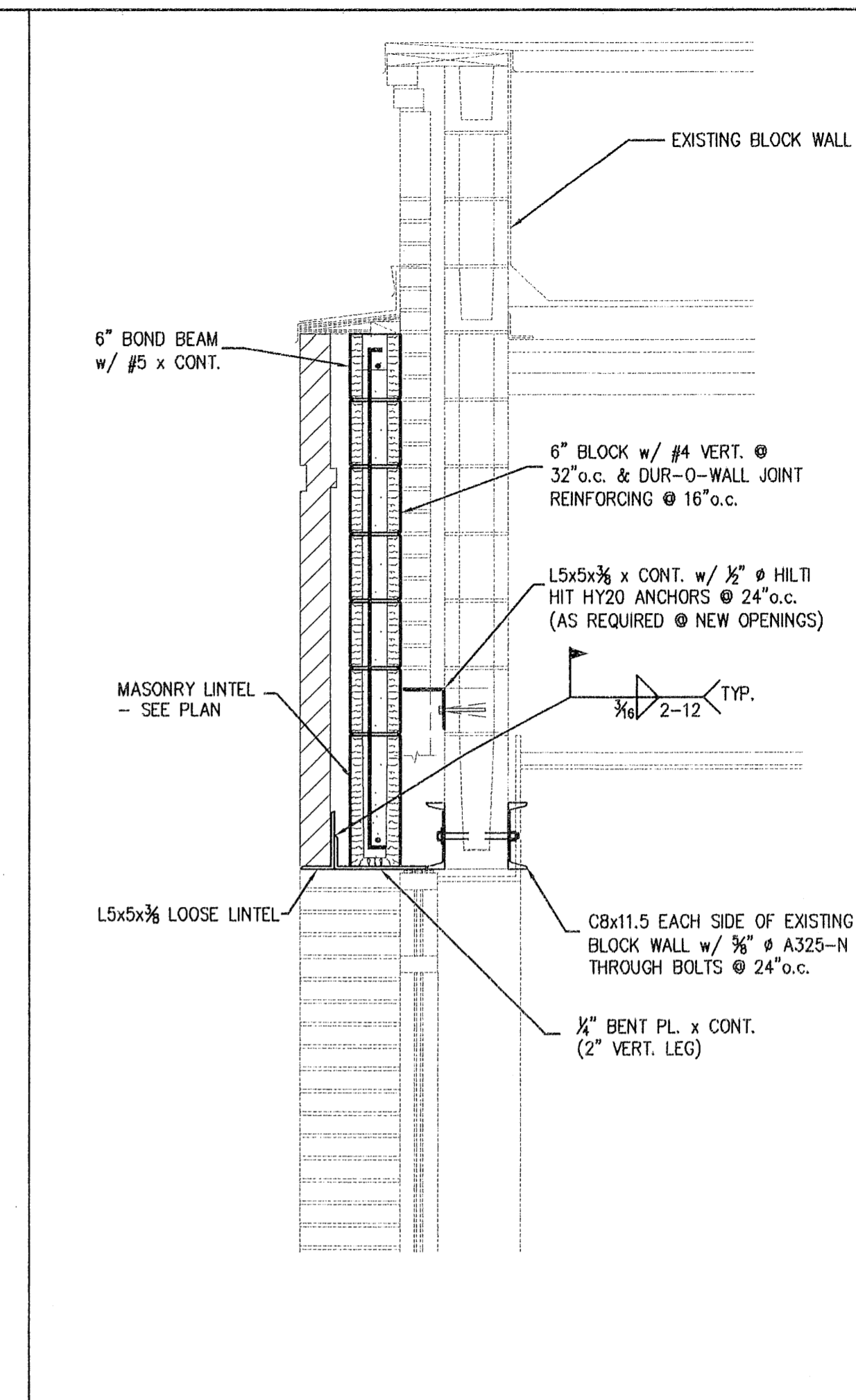
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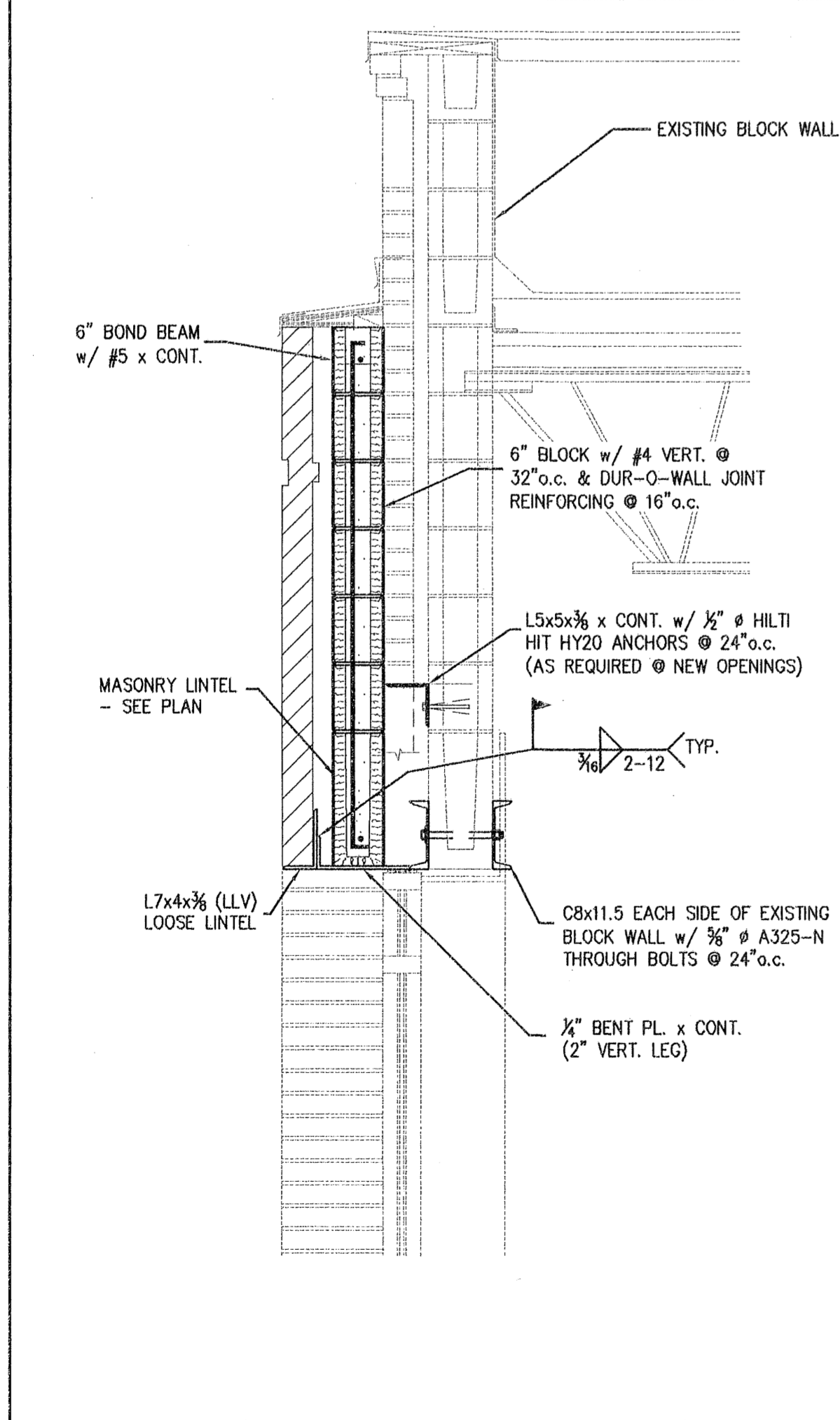
1 SECTION @ ENTRANCE
SCALE: 3/4"=1'-0"



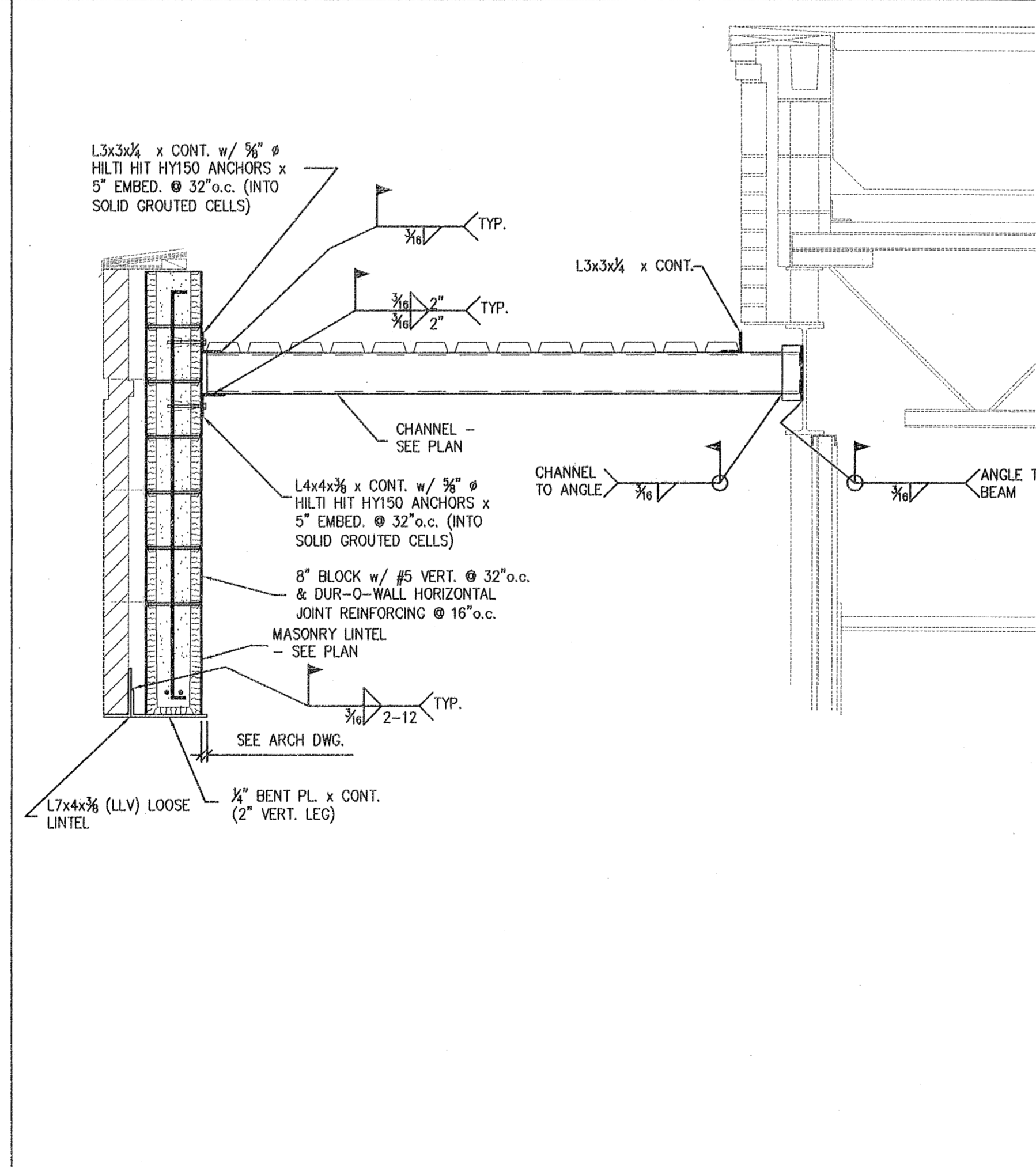
2 SECTION @ FRONT
SCALE: 3/4"=1'-0"



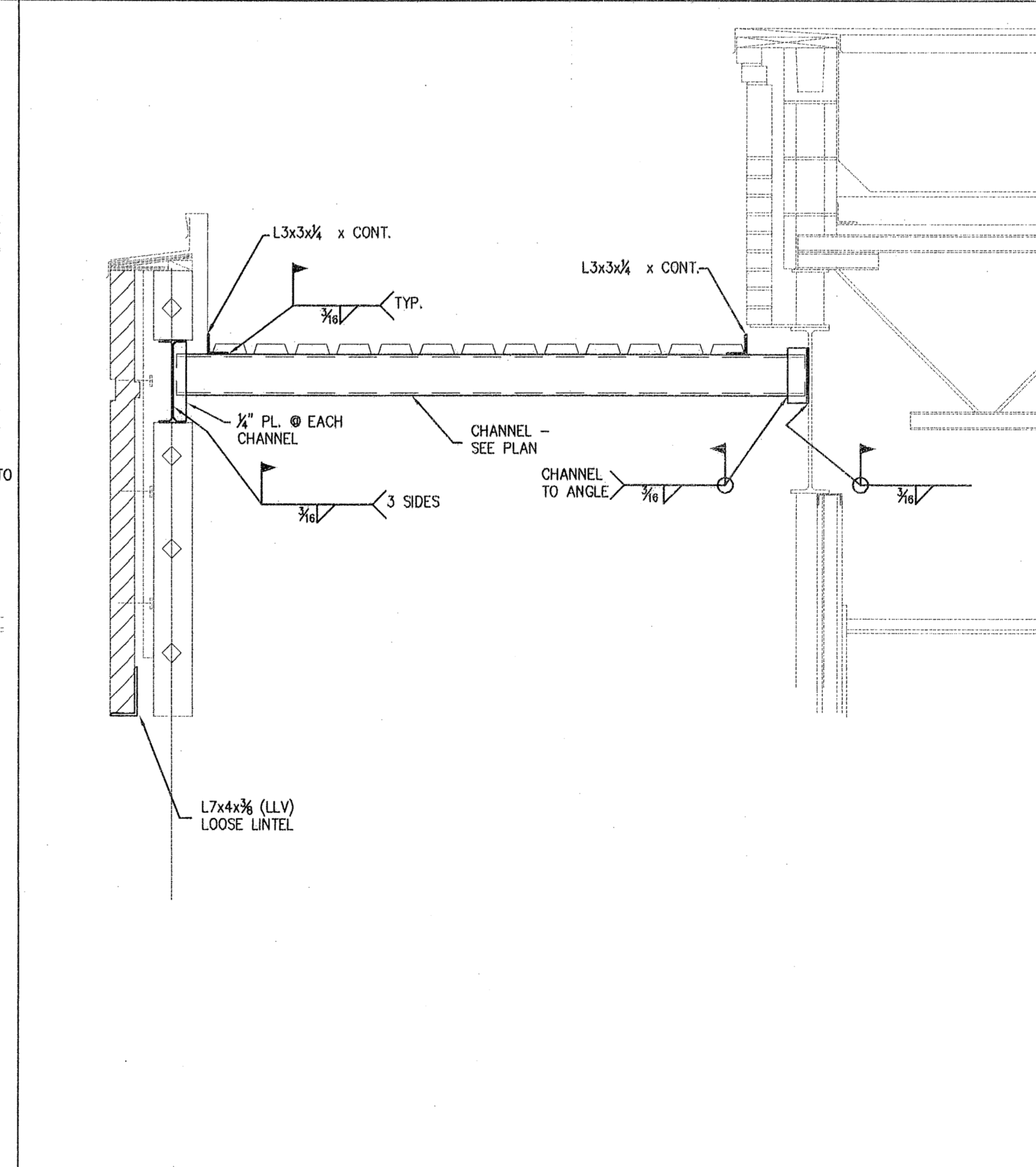
3 SECTION @ FRONT
SCALE: 3/4"=1'-0"



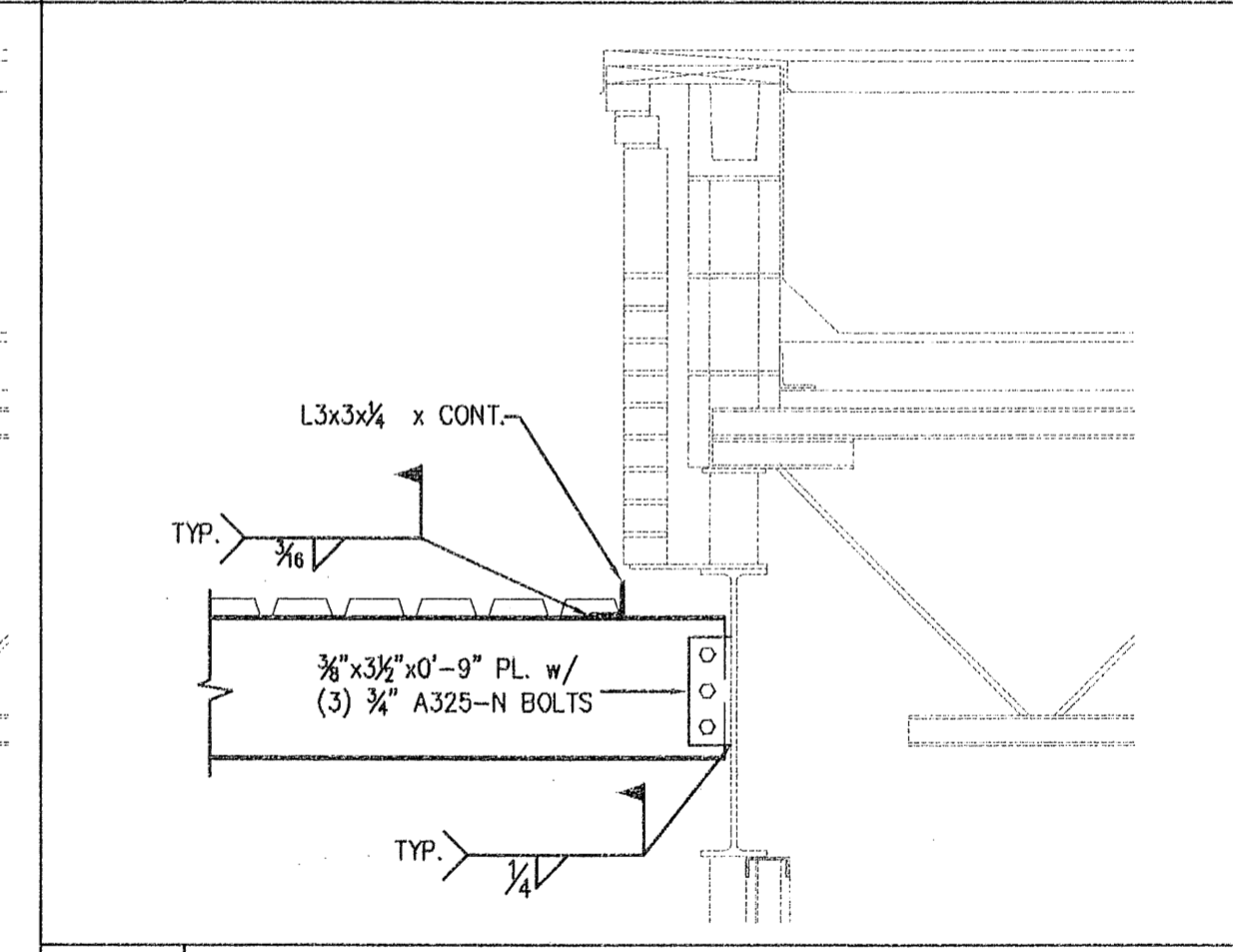
4 SECTION @ EXTERIOR
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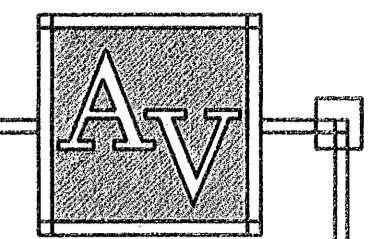
5 SECTION @ EXTERIOR
SCALE: 3/4"=1'-0"



6 SECTION @ EXTERIOR
SCALE: 3/4"=1'-0"



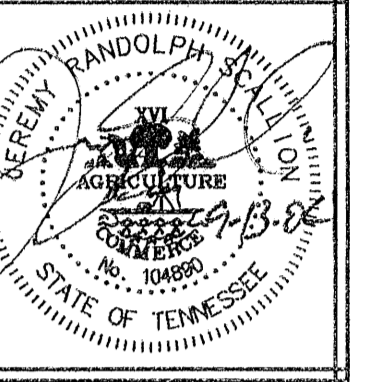
7 CONNECTION @ EXIST. BEAM
SCALE: 3/4"=1'-0"



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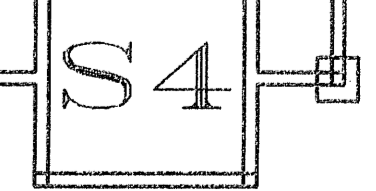


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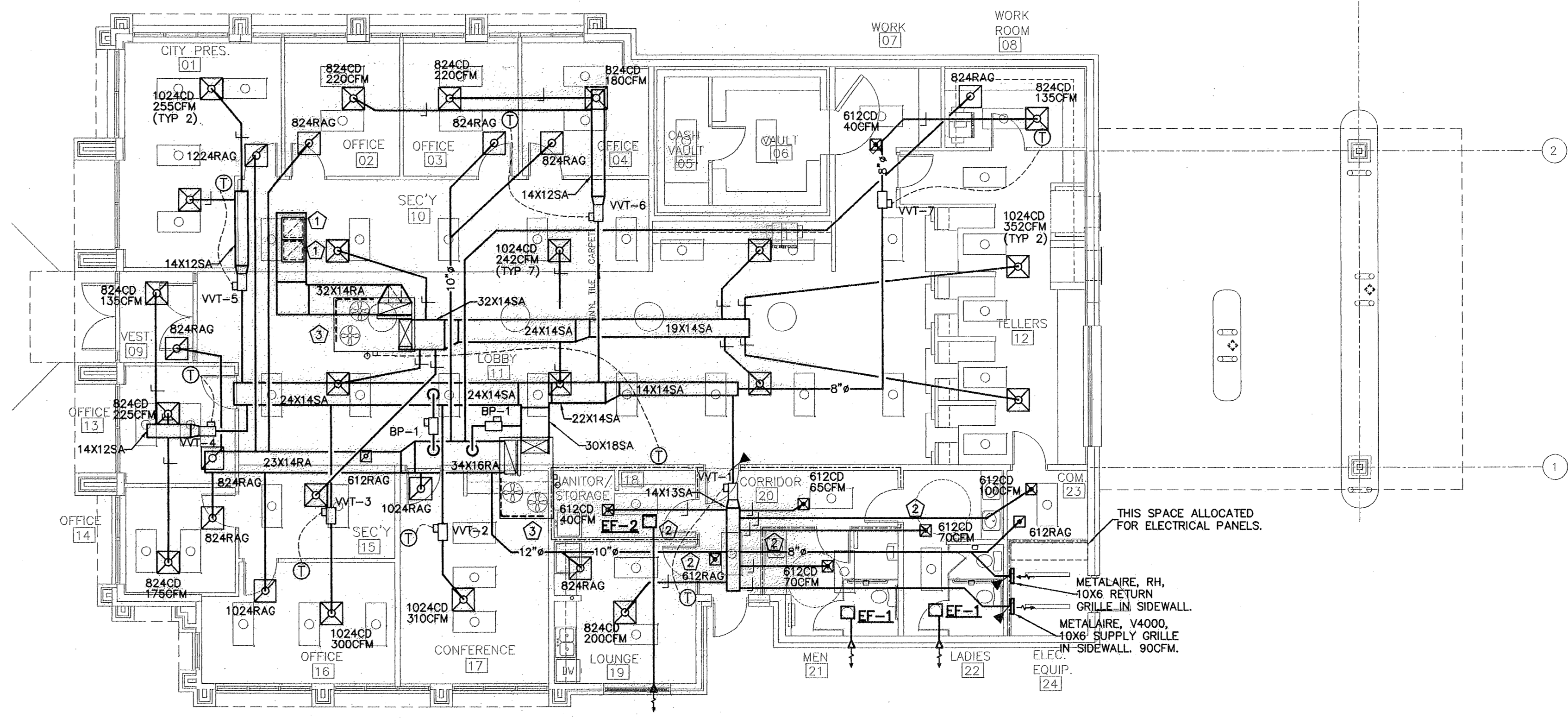
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MECHANICAL NOTES:

- ALL WORK SHALL BE EXECUTED AND INSPECTED IN ACCORDANCE WITH ALL LOCAL AND STATE CODES, LAWS, ORDINANCES, RULES AND REGULATIONS APPLICABLE TO THE PARTICULAR CLASS OF WORK. IF, TO THE KNOWLEDGE OF THE CONTRACTOR, THE DRAWINGS AND SPECIFICATIONS ARE IN CONFLICT WITH THE ABOVE, HE SHALL PROMPTLY NOTIFY THE ENGINEER IN WRITING SO THAT ANY NECESSARY CHANGES CAN BE PROVIDED FOR IN HIS CONTRACT. IF THE CONTRACTOR PERFORMS ANY WORK WITHOUT NOTICE AS REQUIRED, HE SHALL BEAR ALL COSTS OF CORRECTIVE ACTION.
- THE CONTRACTOR SHALL INCLUDE IN HIS QUOTATION ALL APPLICABLE SERVICE CHARGES, FEES, PERMITS, ROYALTIES, AND OTHER SIMILAR COSTS IN CONNECTION WITH THE WORK. OBTAIN PERMITS, AND REQUEST INSPECTIONS FROM AUTHORITY HAVING JURISDICTION.
- INSTALL WORK IN LOCATIONS SHOWN ON DRAWINGS, UNLESS PREVENTED BY PROJECT CONDITIONS. FOR PURPOSES OF CLEARANCE AND LEGIBILITY DRAWINGS ARE ESSENTIALLY DIAGRAMMATIC, AND ALTHOUGH SIZE AND LOCATION OF EQUIPMENT ARE DRAWN TO SCALE WHENEVER POSSIBLE, THE CONTRACTOR SHALL VERIFY THE STRUCTURAL, ELECTRICAL, ARCHITECTURAL, FIRE PROTECTIONS, ETC. DRAWINGS AND DETERMINE AREAS OF INTERFERENCE. THE CONTRACTOR SHALL NOTIFY THE ARCHITECT/ENGINEER OF INTERFERENCE PRIOR TO FABRICATION OF DUCTWORK OR PIPING.
- THE DRAWINGS INDICATE REQUIRED SIZE AND POINTS OF TERMINATION OF PIPES AND DUCTS, AND SUGGEST PROPER ROUTES OF PIPE TO CONFORM TO STRUCTURE. AVOID OBSTRUCTIONS AND PRESERVE CLEARANCES. HOWEVER, IT IS NOT INTENDED THAT DRAWINGS INDICATE ALL NECESSARY OFFSETS, AND IT SHALL BE THE WORK OF THIS SECTION TO INSTALL PIPING AND DUCTS IN SUCH A MANNER AS TO CONFORM TO STRUCTURE, AVOID ALL OBSTRUCTIONS, PRESERVE HEADROOM AND KEEP OPENINGS AND PASSAGEWAYS CLEAR WITHOUT FURTHER INSTRUCTION OR COST TO THE OWNER.
- CONTRACTOR SHALL UNQUOTE ALL WORK PERFORMED UNDER THIS CONTRACT TO BE FREE FROM DEFECTS IN MATERIALS AND WORKMANSHIP FOR A PERIOD OF ONE YEAR FROM DATE OF CERTIFICATE OF SUBSTANTIAL COMPLETION.
- MOTORS FOR ALL MECHANICAL EQUIPMENT SHALL BE FURNISHED BY SUPPLIERS OF SUCH EQUIPMENT AND SHALL BE THE TYPE THAT HAS CHARACTERISTICS SUITABLE FOR CONTINUOUS OPERATING CONDITIONS.
- TRANSPORT AND HANDLE PRODUCTS IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.
- STORE AND PROTECT PRODUCTS IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS, WITH SEALS AND LABELS INTACT AND LEGIBLE.
- VERIFY THAT EACH PIECE OF EQUIPMENT OR SYSTEM HAS BEEN CHECKED FOR PROPER LUBRICATION, DRIVE ROTATION, BELT TENSION, CONTROL SEQUENCE, OR FOR OTHER CONDITIONS WHICH MAY CAUSE DAMAGE.
- DEMONSTRATE OPERATION AND MAINTENANCE OF PRODUCTS TO OWNER'S PERSONNEL ONE WEEK PRIOR TO DATE OF FINAL INSPECTION.
- EXECUTE FINAL CLEANING PRIOR TO FINAL PROJECT ASSESSMENT.
- PROVIDE SUPPORT AND EQUIPMENT REQUIRED TO CONTROL EXPANSION AND CONTRACTION OF PIPING. PROVIDE LOOPS, PIPE OFFSETS, AND SWING JOINTS, OR EXPANSION JOINTS WHERE REQUIRED.
- ENTIRE HVAC STEM SHALL BE BALANCED BY A CERTIFIED TEST & BALANCE CONTRACTOR. ALL AIR FLOW RATES SHALL BE WITHIN 5% OF SPECIFIED FLOW RATE. PROVIDE CERTIFIED TEST & BALANCE REPORT AT END OF PROJECT.
- DISPOSE OF CONDENSATE IN ACCORDANCE WITH LOCAL CODE REQUIREMENTS. PROVIDE TRAP IN CONDENSATE DRAIN LINE AT EACH COIL OR 90+ FURNACE IN ACCORDANCE WITH PUBLISHED MANUFACTURER'S INSTRUCTIONS. CONDENSATE PIPING SHALL BE SCH 40 PVC UNLESS NOTED OTHERWISE OR PROHIBITED BY CODES. INSULATE CONDENSATE DRAIN SLOPE TO DRAIN, AND TERMINATE IN ACCORDANCE WITH CODE OR AS SHOWN ON THESE DRAWINGS.
- PROVIDE NON-CONDUCTING DIELECTRIC CONNECTIONS WHEREVER JOINING DISSIMILAR METALS.
- ALL DUCTWORK SHALL BE FABRICATED AND INSTALLED IN ACCORDANCE WITH THE 1995 EDITION "SMACNA HVAC DUCT CONSTRUCTION STANDARDS - METAL AND FLEXIBLE", AND AS INDICATED. PROVIDE DUCT MATERIAL, GAGES, REINFORCING, AND SEALING FOR OPERATING PRESSURES INDICATED. DUCTWORK SHALL BE FABRICATED FROM ASTM A527 GALVANIZED STEEL SHEET, LOCK-FORMING QUALITY, HAVING G90 ZINC COATING OF IN CONFORMANCE WITH ASTM A90. ALL DUCTS SHALL BE GALVANIZED STEEL UNLESS OTHERWISE NOTED ON DRAWINGS.
- DUCT SIZES INDICATED ARE ACTUAL DUCT DIMENSIONS. ALLOWANCES HAVE BEEN MADE FOR THICKNESS OF INSULATION. WRAP ALL ROUND DUCTS WITH 2" THICK FOIL BACKED FIBERGLASS INSULATION. ALL RECTANGULAR DUCTS TO BE LINED WITH 1" THICK, 1.5# DENSITY, FIBERGLASS INSULATION.
- PROVIDE TEMPORARY PROTECTION FOR EQUIPMENT DURING CONSTRUCTION TO PREVENT DAMAGE TO EQUIPMENT AND COILS. PROVIDE AND INSTALL A NEW, CLEAN SET OF FILTERS FOR EACH SYSTEM AT PROJECT COMPLETION.
- FLEXIBLE DUCTWORK SHALL BE EQUIVALENT TO OMNIAIR MODEL 1200 WITH 1" THICK FIBERGLASS INSULATION AND VAPOR BARRIER. FLEXIBLE DUCTWORK SHALL BE UL LISTED AND APPROVED.
- SEAL ALL LONGITUDINAL AND TRANSVERSE SEAMS BEFORE APPLYING INSULATION. SEALANT SHALL BE NON-HARDENING, WATER RESISTANT, FIRE RESISTIVE, COMPATIBLE WITH MATING MATERIALS, LIQUID USED ALONE OR WITH TAPE, OR HEAVY MASTIC.
- LOCATE DUCTS WITH SUFFICIENT SPACE AROUND EQUIPMENT TO ALLOW NORMAL OPERATING AND MAINTENANCE ACTIVITIES.
- PROVIDE CANVAS, FLAME RETARDANT DUCT CONNECTORS AT ALL CONNECTIONS OF FANS TO DUCTWORK.
- CONTROL WIRING SHALL BE PROVIDED IN ACCORDANCE WITH ALL FEDERAL, STATE AND LOCAL CODES. CONTROL WIRING CONCEALED IN WALLS, LOCATED OUTDOORS, OR INSTALLED IN RETURN AIR PLENUM SHALL BE IN CONDUIT.
- ROUTE REFRIGERANT LINES TO COOLING COIL. SIZE PER MANUFACTURER'S RECOMMENDATIONS AND PROVIDE ADDITIONAL CHARGE AS REQUIRED. INSULATE REFRIGERANT LINES WITH 1/2" ARMAFLEX INSULATION.
- ROUND DUCT BRANCH SIZE SHALL BE SAME AS NECK SIZE SPECIFIED FOR DIFFUSER, UNLESS OTHERWISE NOTED ON DRAWINGS.
- ALL EXTERIOR WALL LOUVERS USED FOR MECHANICAL EXHAUST, MECHANICAL FRESH AIR INTAKE, OR MECHANICAL COMBUSTION AIR SHALL BE METALAIR EXTRUDED ALUMINUM, WITH 1/4" INSECT SCREEN OR EQUAL.
- VERIFY FLOOR PLAN AND WALL/FLOOR/CEILING RATINGS WITH ARCHITECTURAL PLANS. PROVIDE RATED PENETRATIONS AT EACH INSTANCE WHERE MECHANICAL INSTALLATION PENETRATES A RATED ASSEMBLY. PENETRATIONS SHALL BE PER DETAILS ON THE DRAWINGS OR SOME OTHER U.L. LISTED DESIGN.
- NATURAL GAS PIPING, IF SHOWN ON THESE DRAWINGS, SHALL BE SCH. 40 BLACK STEEL. PAINT PIPING LOCATED OUTDOORS. PROVIDE STAND SUPPORTS FROM MECHANICAL EQUIPMENT PAD. PROVIDE MAIN SHUT-OFF VALVE AT METER OUTLET. ALL NATURAL GAS PIPING PERMANENTLY CONCEALED IN WALLS, CHASES, ETC. SHALL HAVE WELDED CONNECTIONS.
- UNLESS OTHERWISE NOTED ON DRAWINGS, AIR DISTRIBUTION SHALL BE AS FOLLOWS OR EQUAL:
 - SIDEWALL SUPPLY - METALAIR "4000" SERIES.
 - CEILING RETURN AND EXHAUST, LAY-IN CEILINGS - METALAIR "7000" SERIES, PERFORATED FACE.
 - HIGH SIDEWALL RETURN AND EXHAUST - METALAIR "4002R" SERIES.
 - LOW SIDEWALL RETURN - METALAIR "00" SERIES CUBECORE.
 - CEILING SUPPLY, DRYWALL CEILING - METALAIR "5000" SERIES FLUSH MOUNT.
 ALL AIR DISTRIBUTION MOUNTING FRAMES SHALL MATCH CEILING TYPE. VERIFY WITH ARCHITECTURAL DRAWINGS.
- DUCT PENETRATIONS THROUGH 1 HR. FIRE RATED WALLS DO NOT REQUIRE FIRE DAMPERS PROVIDED THE FOLLOWING MINIMUM REQUIREMENTS ARE MET:
 - THE DUCT DOES NOT EXCEED 100 SQ. INCHES.
 - THE DUCT IS OF 0.0217 INCH MINIMUM STEEL.
 - THE DUCT SHALL CONTINUE, WITH NO OPENINGS, FOR A MINIMUM OF FIVE FEET FROM THE RATED WALL.
 - THE DUCT IS INSTALLED ABOVE A CEILING.
- UNLESS SHOWN OTHERWISE ON DRAWINGS, FRESH AIR AND EXHAUST AIR DUCTWORK SHALL BE ROUND GALVANIZED DUCT WITH 2" FOIL-BACKED INSULATION. PROVIDE ACCESSIBLE BALANCING DAMPER. SIZE DUCT AS FOLLOWS: 1-100 CFM - 6", 101-200 CFM - 8", 201-400 CFM - 10". SEE NOTE 26 FOR INTAKE LOUVER REQUIREMENTS.
- PROVIDE AND INSTALL THERMOSTATS FOR EACH SYSTEM. THERMOSTATS SHALL BE IN ACCORDANCE WITH ALL LOCAL CODES. THERMOSTATS SHALL BE DIGITAL, MERCURY OPERATED THERMOSTATS NOT ACCEPTABLE.



FAN SCHEDULE

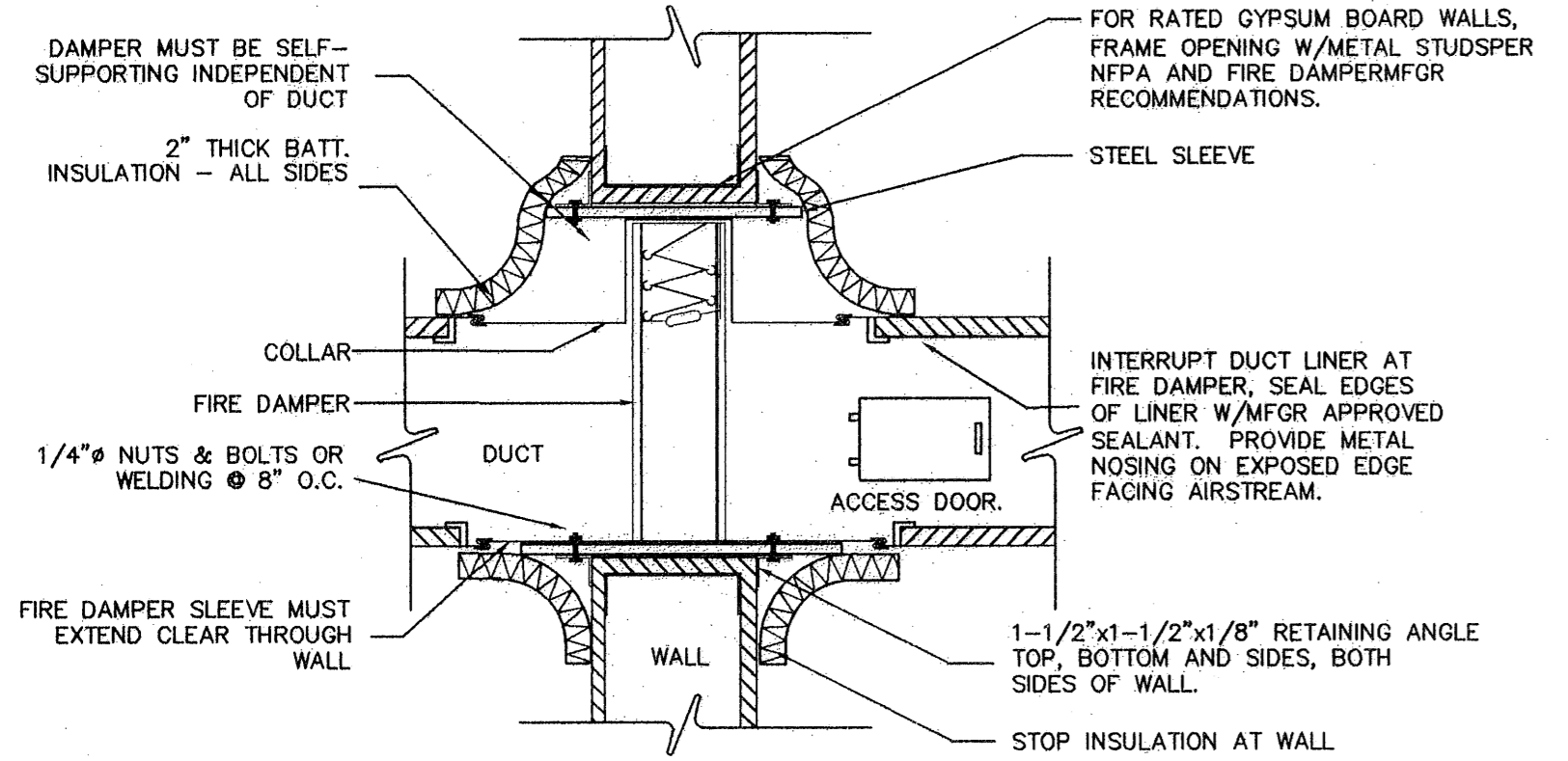
TAG	EF-1	EF-2
AREA SERVED	RESTRMS	JAN
QUANTITY	2	1
TYPE	EXHAUST	EXHAUST
MANUFACTURER	COOK	COOK
MODEL NUMBER	GC180	GC160
CFM	250	150
STATIC PRESSURE	0.5"	0.5"
TYPE	CEILING	CEILING
ELECTRICAL POWER	115V/1/60	115V/1/60
WATTS	170 WATTS	100 WATTS
SONES	5.3	5.3
WEIGHT	20	15
INTERLOCK	LIGHTS	LIGHTS
NOTES	1,2,3,4,5,6,7	1,2,3,4,5,6,7

NOTES:
 (1) BACKDRAFT DAMPER
 (2) SPEED CONTROLLER
 (3) INTEGRAL SERVICE DISCONNECT
 (4) DIRECT DRIVE
 (5) WALL LOUVERED DISCHARGE
 (6) ON WITH LIGHTS
 (7) SEISMICALLY RESTRAIN FAN AS PER CODE. PROVIDE 1/4" CABLE RESTRAINTS AT EACH CORNER (FOUR REQUIRED). ATTACH TO FAN WITH ANGLE CLIP BOLTED TO FAN. SPLAY CABLES AT 45° ANGLES AND LOOP AROUND NEARBY BUILDING STRUCTURAL STEEL. SECURE LOOP WITH CLEVIS CLAMPS. PROVIDE ENGINEER CERTIFIED SUBMITTAL FOR APPROVAL.

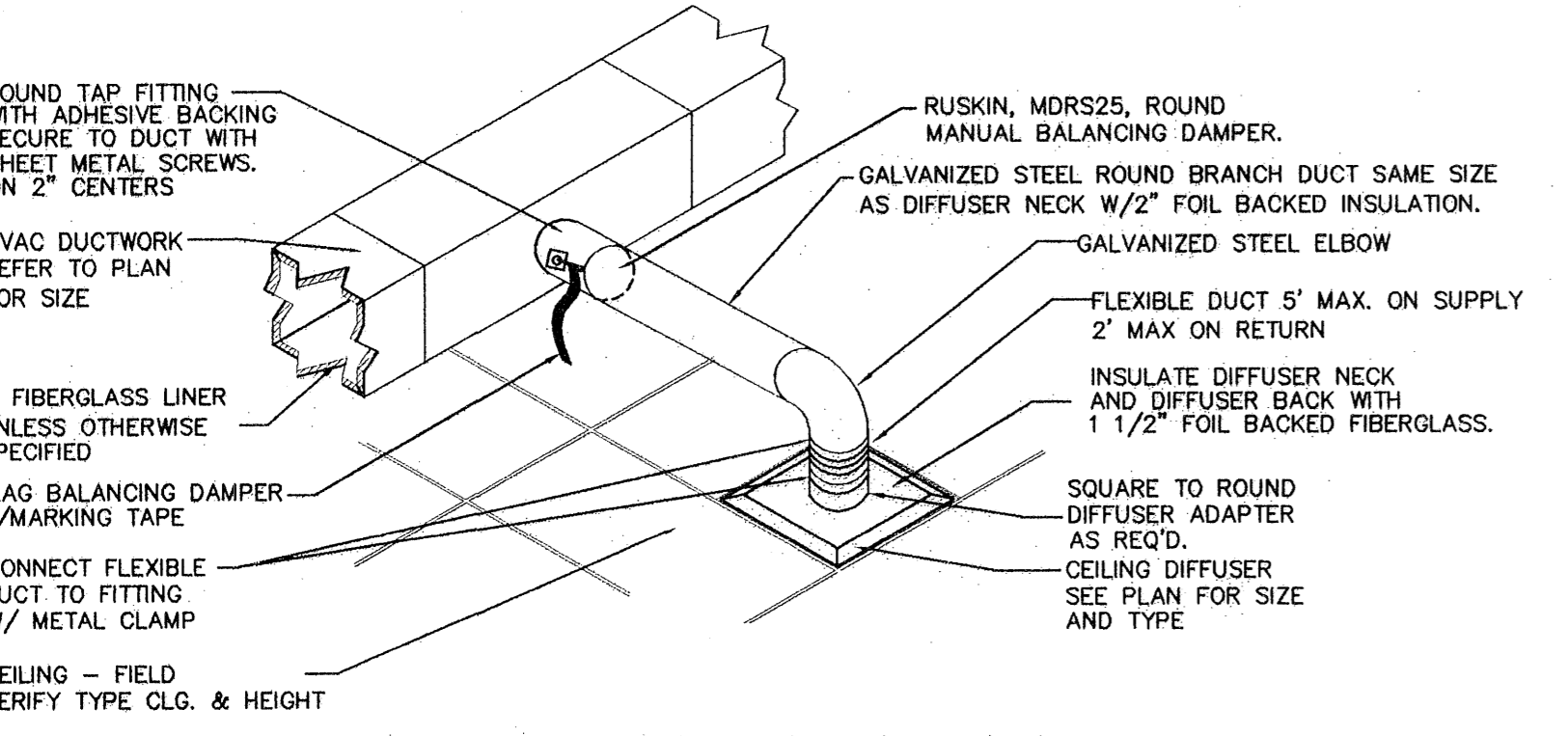
VVT SCHEDULE:

TAG	VVT-1	VVT-2	VVT-3	VVT-4	VVT-5	VVT-6	VVT-7	BP-1
AIR SYSTEM	ACU	ACU	ACU	ACU	ACU	ACU	ACU	CARRIER
MANUFACTURER	CARRIER	CARRIER	CARRIER	CARRIER	CARRIER	CARRIER	CARRIER	CARRIER
CFM	635	310	300	535	510	820	175	
MODEL NUMBER	ZD-12	ZD-10	ZD-10	ZD-12	ZD-12	ZD-12	ZD-16	
TRUNK SIZE	12"	10"	10"	12"	12"	12"	16"	

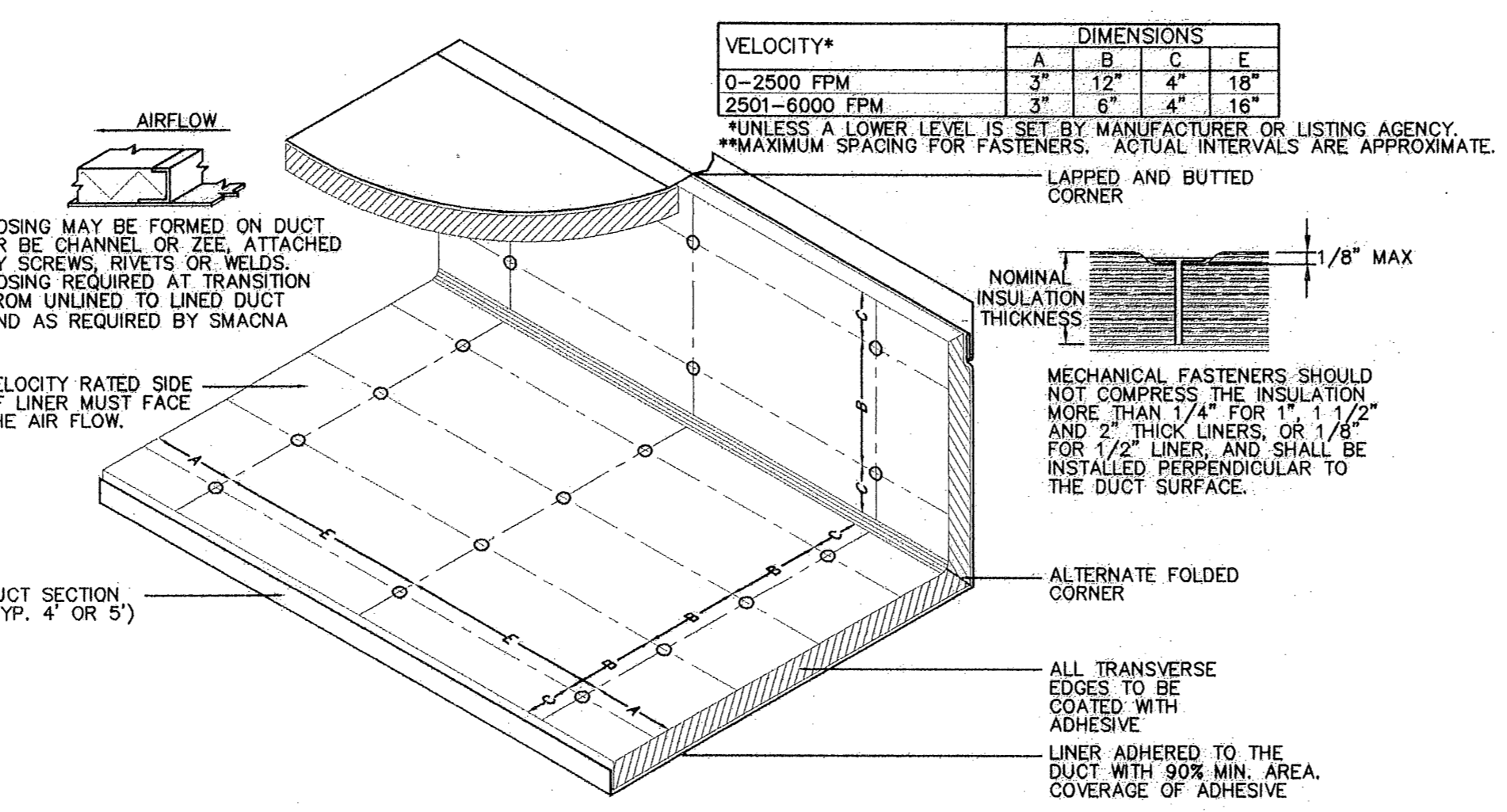
NOTES:
 1) 2 REQUIRED



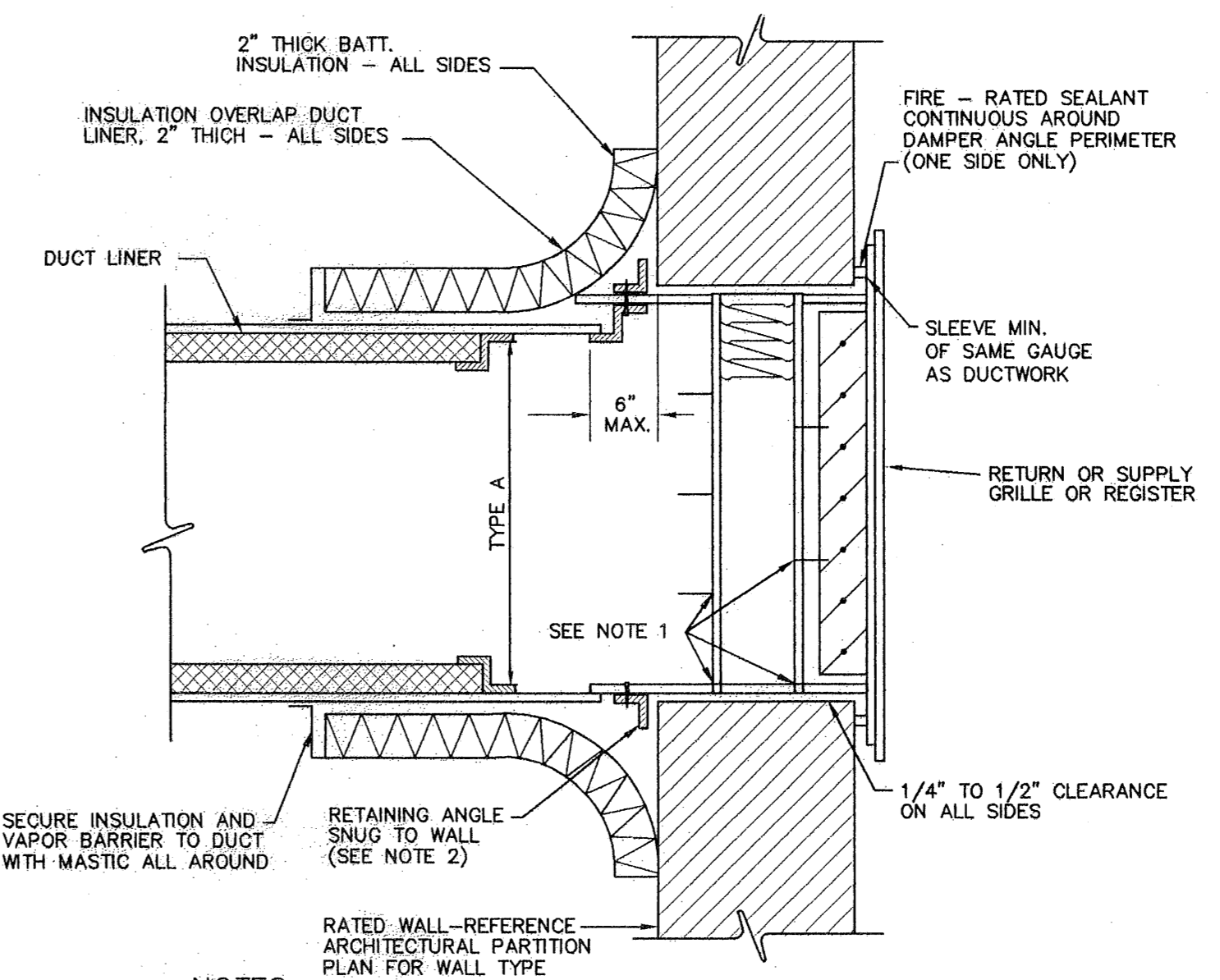
TYPICAL FIRE DAMPER DETAIL
NOT TO SCALE



TYPICAL SUPPLY BRANCH RUN DETAIL
NOT TO SCALE



DUCT LINER INSTALLATION DETAIL
NOT TO SCALE



- NOTES:**
- WHEN MULTIPLE DAMPERED ASSEMBLIES ARE JOINED OR FASTENED TO THE SLEEVE, DAMPER SHALL BE FASTENED WITH 1/4" No. 20 BOLTS No. 10 SCREWS, OR 1/2" LAGGED WELDS STAGGERED INTERMITTENTLY & SPACED 6" MAX. CENTER TO CENTER.
 - RETAINING ANGLES SHALL BE A MINIMUM OF 1 1/2" X 1 1/2" X 14 GAUGE, ANGLES SHALL OVERLAP THE WALL BY A MINIMUM OF ONE INCH (1").

FIRE DAMPER AND WALL MOUNTED AIR DEVICE MOUNTING DETAIL
NOT TO SCALE

LEGEND

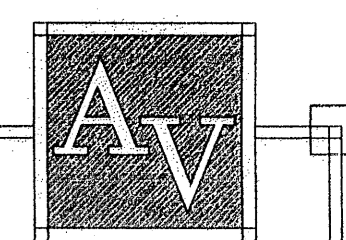
	SUPPLY AIR DIFFUSER
	RETURN AIR GRILLE
	EXHAUST AIR GRILLE
	THERMOSTAT
	1 1/2 HR. FIRE DAMPER
	SUPPLY AIR
	RETURN AIR
	FRESH AIR/OUTSIDE AIR
	EXHAUST AIR
	1 HR. FIRE WALL

NECK SIZE: (8x24)(RAG) - RETURN AIR GRILLE
 (8x24)(CD) - CEILING DIFFUSER
 (8x24)(EAG) - EXHAUST AIR GRILLE
 (8x24)(SWG) - SIDEWALL GRILLE

AIR FLOW RATING:
 LAY-IN CEILING SIZE (24"x24")
 NOTE: ROUND BRANCH RUNOUT SIZE SAME SIZE AS DIFFUSER NECK UNLESS OTHERWISE SPECIFIED ON DRAWING.

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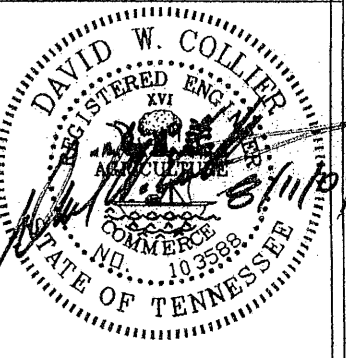
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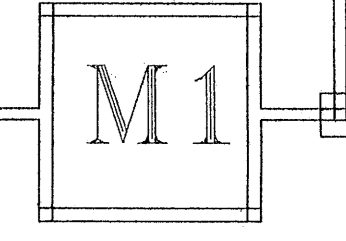
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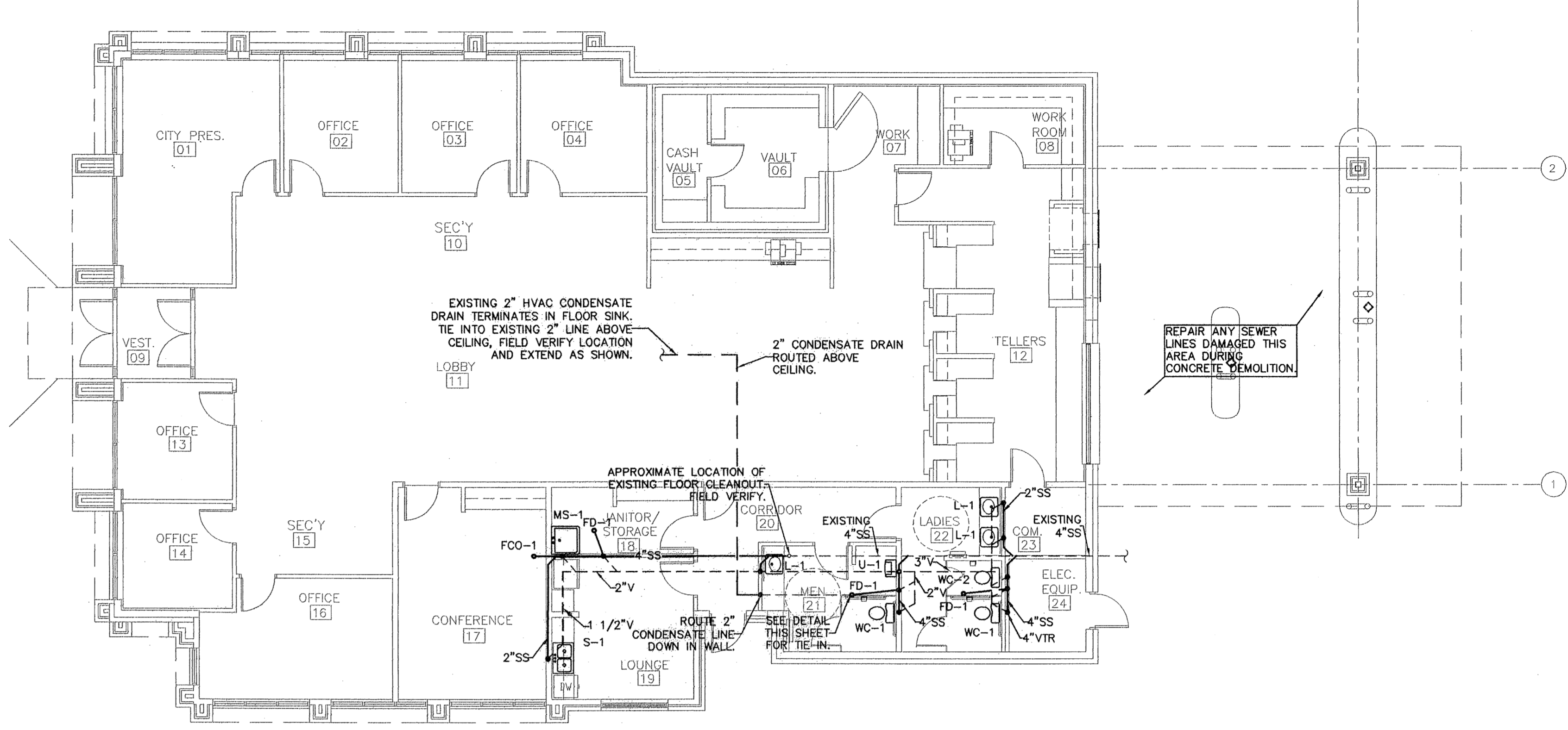
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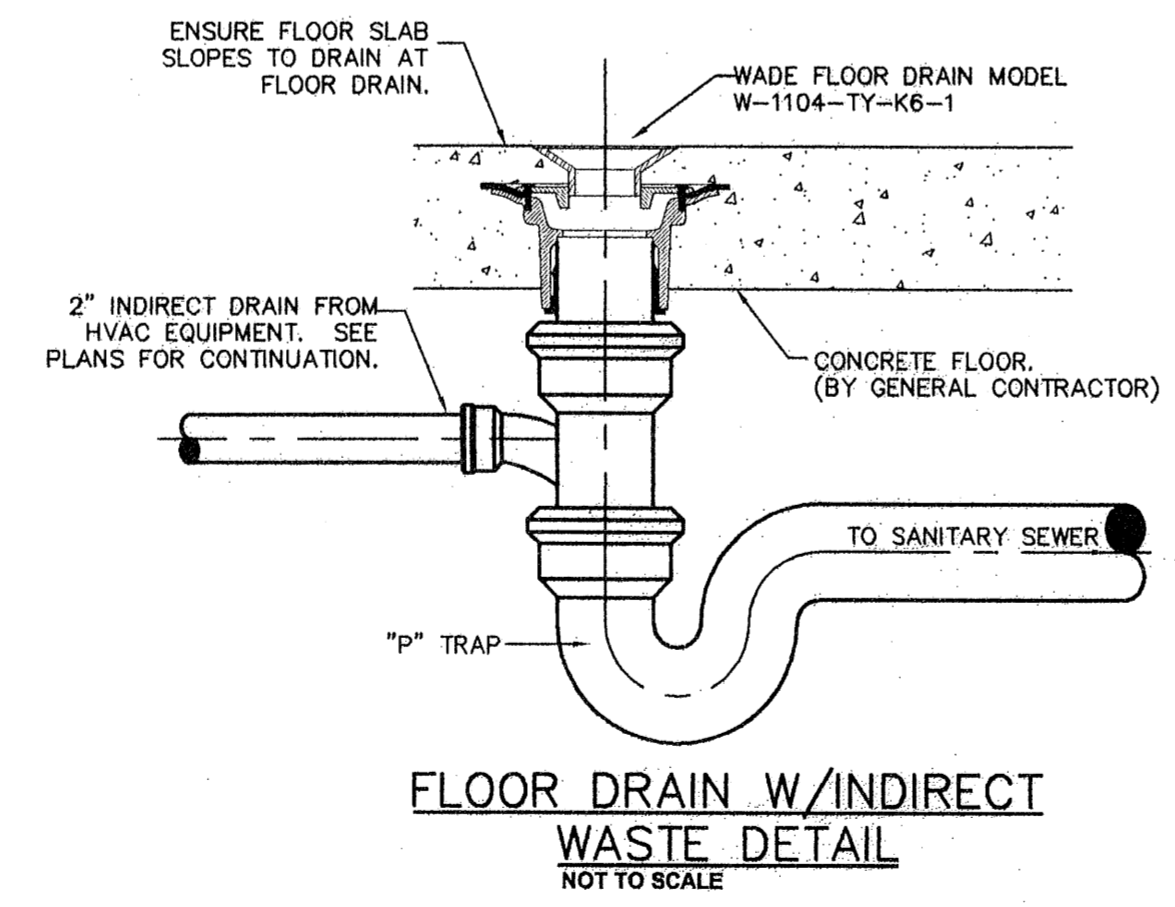
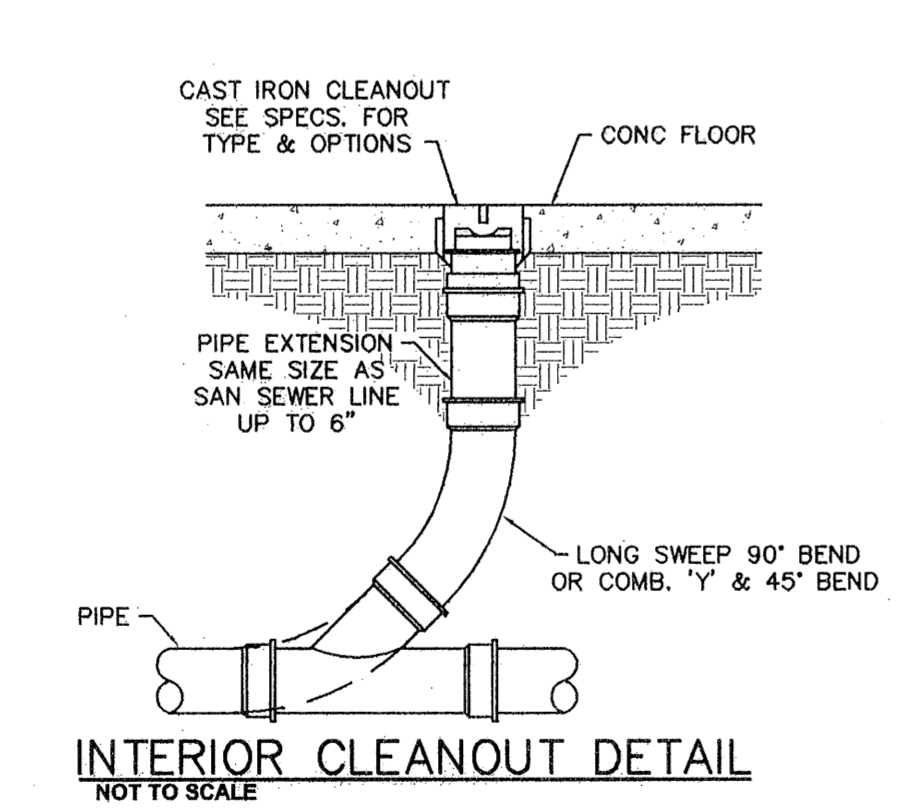


GENERAL PLUMBING NOTES:

1. ALL WORK SHALL BE EXECUTED AND INSPECTED IN ACCORDANCE WITH ALL LOCAL OR STATE CODES, LAWS, ORDINANCES, RULES AND REGULATIONS APPLICABLE TO THE PARTICULAR CLASS OF WORK. IF TO THE KNOWLEDGE OF THE CONTRACTOR, THE DRAWINGS AND SPECIFICATIONS ARE IN CONFLICT WITH THE ABOVE, HE SHALL PROMPTLY NOTIFY THE ENGINEER IN WRITING SO THAT ANY NECESSARY CHANGES CAN BE PROVIDED FOR IN HIS CONTRACT. IF THE CONTRACTOR PERFORMS ANY WORK WITHOUT NOTICE AS REQUIRED, HE SHALL BEAR ALL COSTS OF CORRECTIVE ACTION.
2. THE CONTRACTOR SHALL INCLUDE IN HIS QUOTATION ALL APPLICABLE SERVICE CHARGES, FEES, PERMITS, ROYALTIES, AND OTHER SIMILAR COSTS IN CONNECTION WITH THE WORK. OBTAIN PERMITS, AND REQUEST INSPECTIONS FROM AUTHORITY HAVING JURISDICTION.
3. INSTALL WORK IN LOCATIONS SHOWN ON DRAWINGS, UNLESS PREVENTED BY PROJECT CONDITIONS. FOR PURPOSES OF CLEARNESS AND LEGIBILITY, DRAWINGS ARE ESSENTIALLY DIAGRAMMATIC, AND ALTHOUGH SIZE AND LOCATION OF EQUIPMENT ARE DRAWN TO SCALE WHENEVER POSSIBLE, THE CONTRACTOR SHALL MAKE USE OF ALL DATA IN ALL OF THE CONTRACT DOCUMENTS AND SHALL VERIFY THIS INFORMATION AT THE SITE.
4. THE DRAWINGS INDICATE REQUIRED SIZE AND POINTS OF TERMINATION OF PIPES AND DUCTS, AND SUGGEST PROPER ROUTES OF PIPE TO CONFORM TO STRUCTURE, AVOID OBSTRUCTIONS AND PRESERVE CLEARANCES. HOWEVER, IT IS NOT INTENDED THAT DRAWINGS INDICATE ALL NECESSARY OFFSETS, AND IT SHALL BE THE WORK OF THIS SECTION TO INSTALL PIPING AND DUCTS IN SUCH A MANNER AS TO CONFORM TO STRUCTURE, AVOID ALL OBSTRUCTIONS, PRESERVE HEADROOM AND KEEP OPENINGS AND PASSAGEWAYS CLEAR WITHOUT FURTHER INSTRUCTION OR COST TO THE OWNER.
5. CONTRACTOR SHALL GUARANTEE ALL WORK PERFORMED UNDER THIS CONTRACT TO BE FREE FROM DEFECTS IN MATERIALS AND WORKMANSHIP FOR A PERIOD OF ONE YEAR FROM DATE OF CERTIFICATE OF SUBSTANTIAL COMPLETION.
6. TRANSPORT AND HANDLE PRODUCTS IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.
7. STORE AND PROTECT PRODUCTS IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS, WITH SEALS AND LABELS INTACT AND LEGIBLE.
8. VERIFY THAT EACH PIECE OF EQUIPMENT OR SYSTEM HAS BEEN CHECKED FOR PROPER LUBRICATION, DRIVE ROTATION, BELT TENSION, CONTROL SEQUENCE, OR FOR OTHER CONDITIONS WHICH MAY CAUSE DAMAGE.
9. DEMONSTRATE OPERATION AND MAINTENANCE OF PRODUCTS TO OWNER'S PERSONNEL ONE WEEK PRIOR TO DATE OF FINAL INSPECTION.
10. EXECUTE FINAL CLEANING PRIOR TO FINAL PROJECT ASSESSMENT.
11. PROVIDE SUPPORT AND EQUIPMENT REQUIRED TO CONTROL EXPANSION AND CONTRACTION OF PIPING. PROVIDE LOOPS, PIPE OFFSETS, AND SWING JOINTS, OR EXPANSION JOINTS WHERE REQUIRED.
12. SANITARY DRAIN PIPING SHALL BE SCHEDULE 40 PVC (ASTM 2865) OR SERVICE WEIGHT CAST IRON (ASTM A74), CONFORM TO LOCAL CODE REQUIREMENTS.
13. DOMESTIC WATER PIPING SHALL BE TYPE "L" COPPER (ASTM B88) OR SCHEDULE 40 GALVANIZED STEEL (ASTM A120). UNDERGROUND WATER PIPING SHALL BE TYPE "K" COPPER OR SCHEDULE 40 PVC (ASTM D1785), AS LOCAL CODES ALLOW. INSULATE DOMESTIC COLD WATER LINES WITH 1/2" THICK FIBERGLASS AND HOT WATER LINES WITH 1" THICK FIBERGLASS.
14. BEFORE COMMENCING WORK ON SANITARY SEWER, CHECK INVERTS AND ENSURE THAT THESE CAN BE PROPERLY CONNECTED WITH SLOPE FOR DRAINAGE AND COVER TO AVOID FREEZING.
15. PROVIDE NEW WATER SERVICE COMPLETE WITH REDUCED PRESSURE BACKFLOW PREVENTOR.
16. PROVIDE NON-CONDUCTING DIELECTRIC CONNECTIONS WHEREVER JOINING DISSIMILAR METALS.
17. PROVIDE ACCESSIBLE STOPS IN PIPING CONNECTIONS TO ALL PLUMBING FIXTURES.
18. ASSURE EXTERIOR WALL CHASES ARE INSULATED TO PREVENT FREEZING.
19. PROVIDE INSULATING ADA PLUMBING JACKETS UNDER EACH ADA FIXTURE WITH EXPOSED DRAIN AND WATER PIPING.
20. PROVIDE PIPE LABELS FOR ALL PIPING SYSTEMS.
21. PROVIDE TRAP PRIMERS FOR ALL FLOOR DRAINS AND ENSURE THAT FLOOR SLOPES TO DRAIN AT FLOOR DRAIN.
22. PROVIDE AND INSTALL WADE SHOCKSTOPS FOR DOMESTIC WATER PIPING SYSTEM. TWO REQUIRED PER BATHROOM UNIT, ONE DOW AND ONE DRW. PROVIDE SHUTOFF VALVE FOR SERVING SHOCKSTOP.
23. PROVIDE 3/8" DCW CONNECTION TO ICE MAKER IF NECESSARY.
24. NATURAL GAS PIPING, IF SHOWN ON THESE DRAWINGS, SHALL BE SCH. 40 BLACK STEEL. PAINT PIPING LOCATED OUTDOORS. ALL NATURAL GAS PIPING PERMANENTLY CONCEALED IN WALLS, CHASES, ETC. SHALL HAVE WELDED CONNECTIONS.
25. VERIFY FLOOR PLAN AND WALL/FLOOR/CEILING RATINGS WITH ARCHITECTURAL PLANS. PROVIDE RATED PENETRATIONS AT EACH INSTANCE WHERE PLUMBING INSTALLATION PENETRATES A RATED ASSEMBLY. PENETRATIONS SHALL BE PER DETAILS ON THE DRAWINGS OR SOME OTHER U.L. LISTED DESIGN.
26. ROOF DRAIN PIPING, IF SHOWN ON THESE DRAWINGS, SHALL BE SCH. 40 PVC. SUPPORT ROOF DRAIN PIPING WITH ALL THREAD ROD AND CLEVIS HANGERS. INSULATE ROOF DRAIN BODIES AND HORIZONTAL ROOF DRAIN PIPING WITH 1/2" THICK FIBERGLASS INSULATION. OVERFLOW PIPING DOES NOT REQUIRE INSULATION.



SEWER PLAN
1/8" = 1'-0"



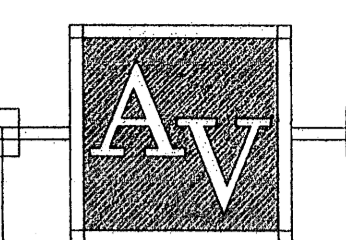
- PLUMBING DEMOLITION:**
- 1) PLUMBING CONTRACTOR SHALL REMOVE AND PROPERLY DISPOSE OF EXISTING DOMESTIC WATER LINES, PLUMBING FIXTURES AND VENT LINES FOR EACH EXISTING PLUMBING FIXTURE AND KITCHEN EQUIPMENT AS REQUIRED.
- GENERAL NOTES:**
- 1) ALL WATER CLOSETS SHALL RECEIVE A 2" VENT, ALL OTHERS SHALL RECEIVE 1 1/2" VENT UNLESS OTHERWISE NOTED.
 - 2) ALL WATER CLOSETS SHALL RECEIVE A 4"SS CONNECTION, ALL FLOOR DRAINS SHALL RECEIVE A 3"SS CONNECTION, ALL OTHERS SHALL BE 2"SS UNLESS OTHERWISE NOTED.
 - 3) ABANDON EXISTING GREASE INTERCEPTOR, GREASE LINES AND SEWER DRAIN LINES IN PLACE.
 - 4) CONDENSATE SYSTEM TO REMAIN. EXTEND 2" TERMINATION AS SHOWN THIS SHEET AND INDIRECTLY CONNECT TO SANITARY SEWER AS PER DETAIL THIS SHEET. INSULATE NEW PIPING WITH 1/2" FIBERGLASS.

LEGEND

SS	SANITARY SEWER
VENT	VENT
CD	CONDENSATE
1 HR. FIRE WALL	1 HR. FIRE WALL

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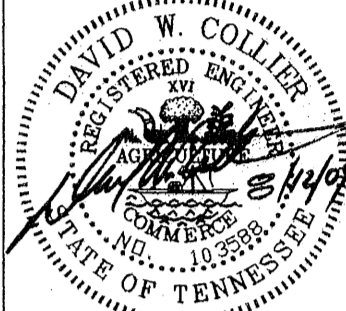
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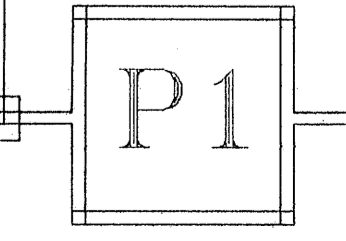
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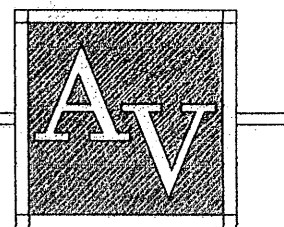
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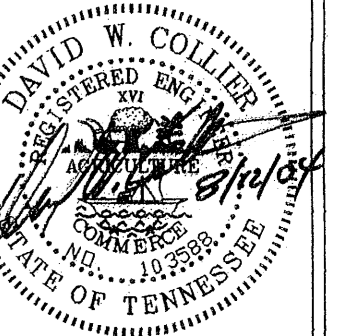




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PLUMBING SCHEDULE:

TAG	SEWER	DCW	DHW	DESCRIPTION
WC-1	4"	1"	---	AMERICAN STANDARD, CADET, 3043.102 FLUSH VALVE TOILET, ADA 17" RIM HEIGHT, 1.6 GPF, ELONGATED BOWL, WITH SLOAN REGAL 111 FLUSH VALVE AND SEAT.
WC-2	4"	1"	---	AMERICAN STANDARD, MADERA, 2234.015 FLUSH VALVE TOILET, 14" RIM HEIGHT, 1.6 GPF, ELONGATED BOWL, WITH SLOAN REGAL 111 FLUSH VALVE AND SEAT.
U-1	1 1/2"	3/4"	---	AMERICAN STANDARD, WASHBROOK, 6501.010, URINAL, ADA, WITH SLOAN, REGAL, 196-1, FLUSH VALVE.
L-1	1 1/2"	1/2"	1/2"	AMERICAN STANDARD, 0356.015, LUCERNE, WALL-HUNG LAVATORY, ADA, WITH AMERICAN STANDARD, MONTEREY, 6530.170, WIDESPREAD FAUCET, BRASS CRAFT, DEARBORN, #507, P-TRAP, 159A, STRAINER, AND #2165 SUPPLIES & STOPS.
S-1	1 1/2"	1/2"	1/2"	JUST, CDL SERIES, B-GR, DOUBLE BOWL, STAINLESS STEEL SINK, CDL-2233-B-GR, WITH AMERICAN STANDARD, HERITAGE, 7231.000, GOOSENECK FAUCET WITH SPRAY, HANDLES, AND SUPPLIES & STOPS.
MS-1	3"	1/2"	1/2"	FIAT, MSB, 24x24 MOP SINK, FIAT, 830-AA, FAUCET WITH FIAT, A32-AA, HOSE AND BRACKET.
FCO-1	4"	---	---	ZURN, Z-1400, ADJUSTABLE, FLOOR CLEAN-OUT.
FPWH-1	---	3/4"	---	ZURN Z-1315 FROSTPROOF WALL HYDRANT.
FD-1	3"	---	---	J.R. SMITH, MODEL 2005-1, FLOOR DRAIN.

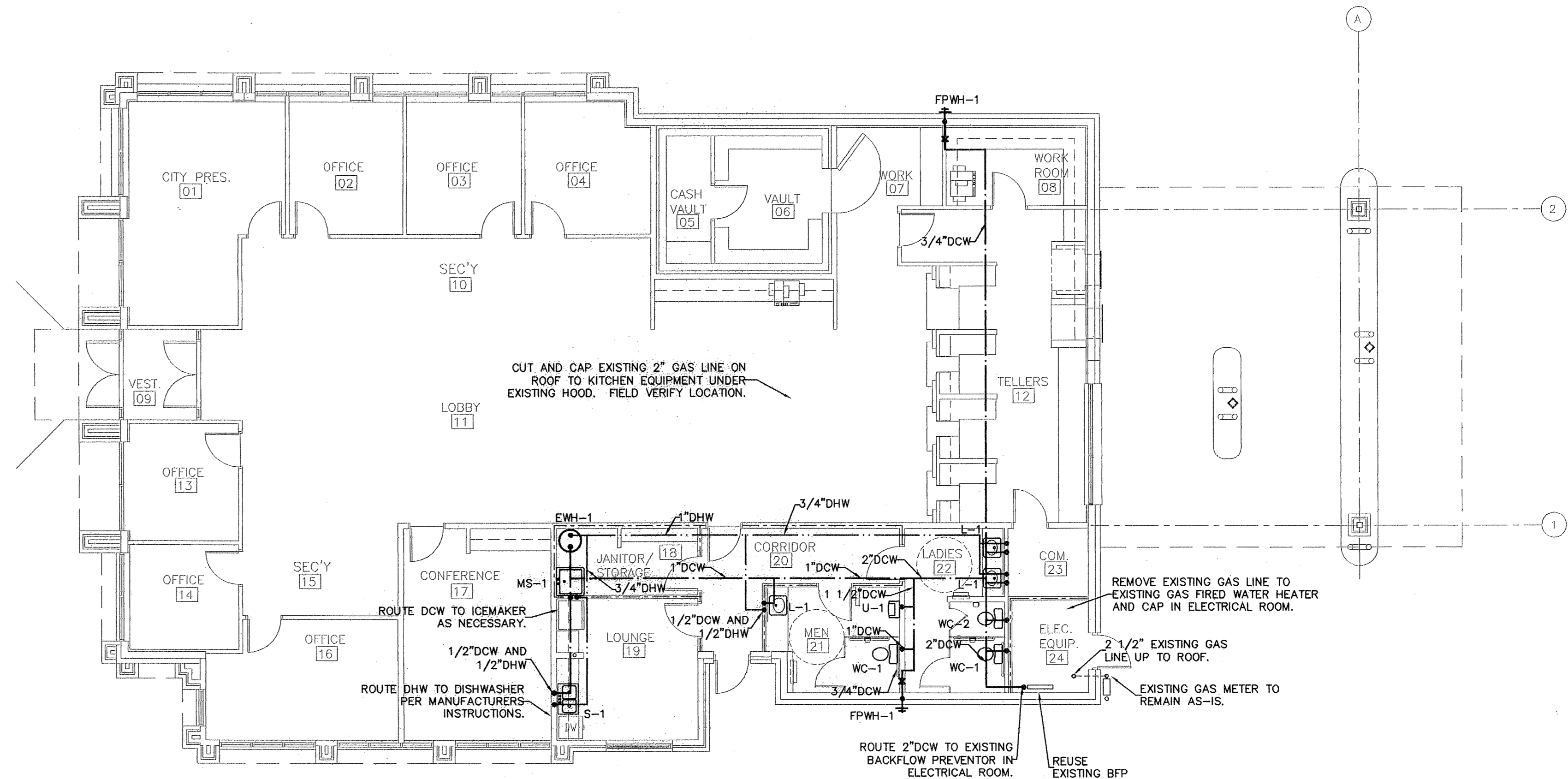
ELECTRIC WATER HEATER SCHEDULE:

TAG	EW-1
LOCATION	JAN.
MANUFACTURER	RHEM
MODEL NUMBER	81SV40D
TYPE	ELECTRIC
STORAGE (GAL)	40
ELEMENTS	4500W
ELECTRICAL	240/1/60
NOTES	1

1. AUXILIARY DRAIN PAN.

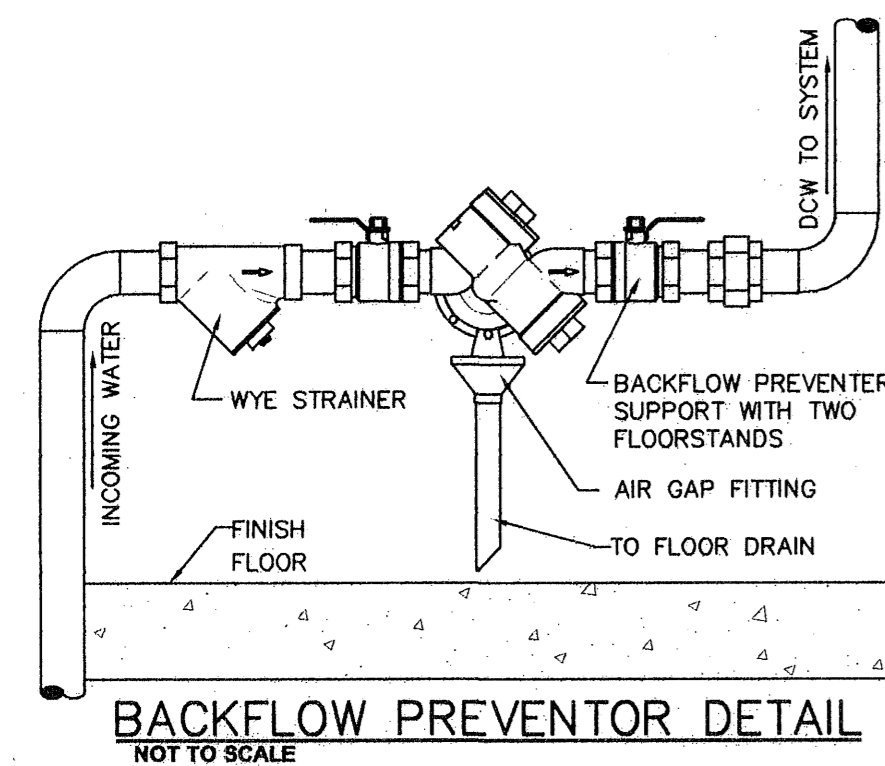
PLUMBING SYSTEM DESIGN BASIS

TOTAL WATER SUPPLY FIXTURE UNITS	43
WATER SUPPLY DEMAND (GPM)	45
BUILDING WATER SERVICE SIZE	2"
TOTAL DRAINAGE FIXTURE UNITS	29
BUILDING SEWER SIZE	4"

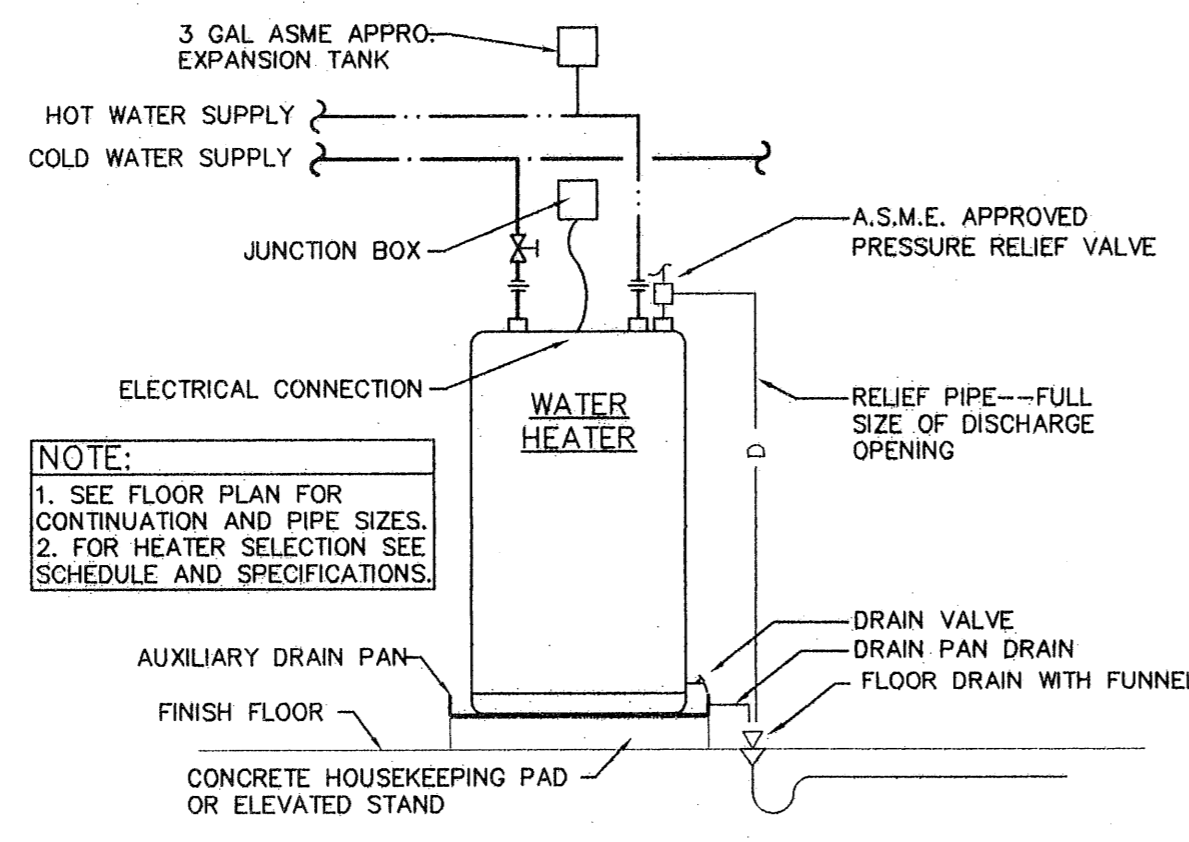


WATER PLAN
1/8" = 1'-0"

NORTH

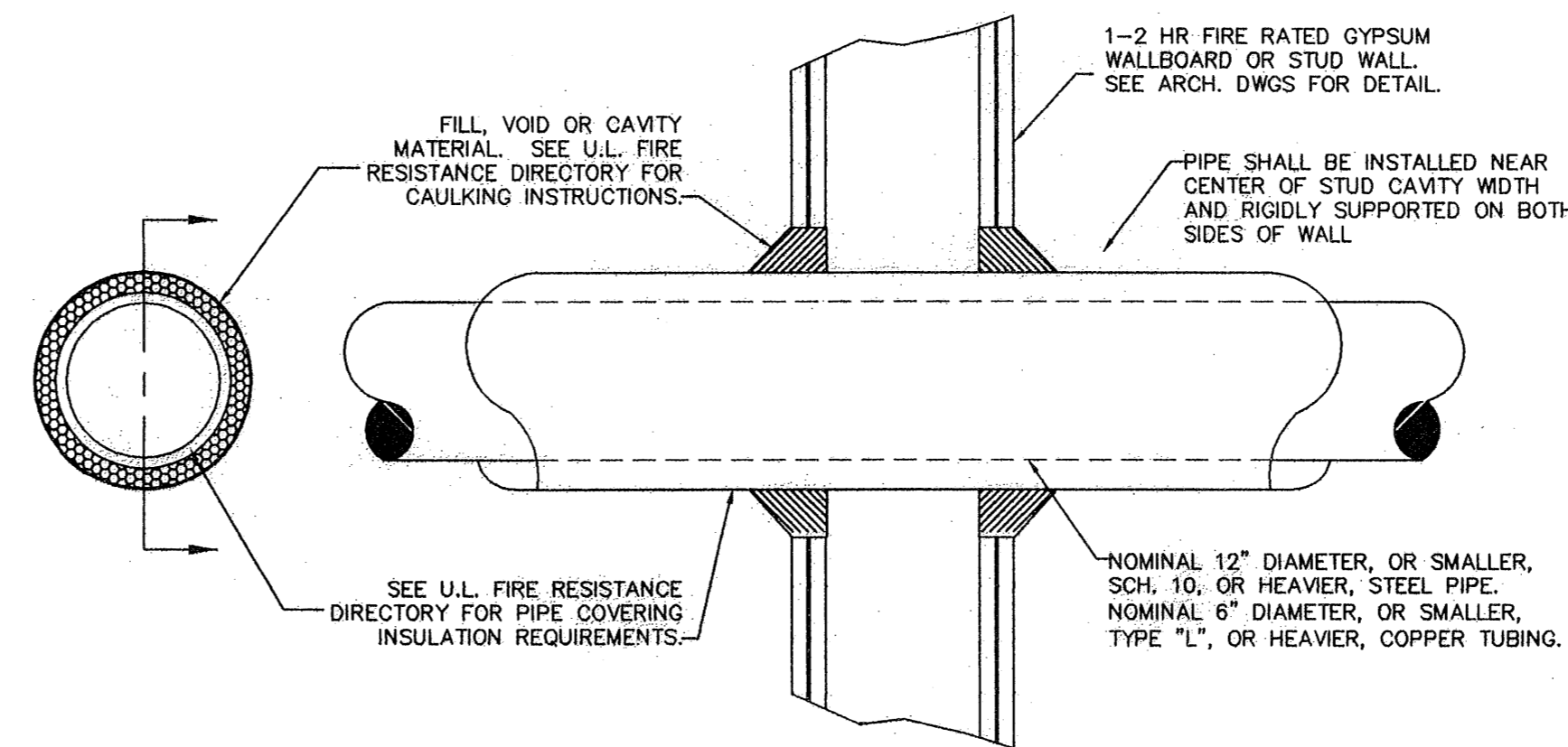


BACKFLOW PREVENTOR DETAIL
NOT TO SCALE



NOTE:
1. SEE FLOOR PLAN FOR CONTINUATION AND PIPE SIZES.
2. FOR HEATER SELECTION SEE SCHEDULE AND SPECIFICATIONS.

ELECTRIC WATER HEATER DETAIL
NOT TO SCALE



NOTE:
DETAIL IS BASED ON THROUGH PENETRATION FIRESTOP SYSTEM NO. WL5001 AS DESCRIBED IN U.L. FIRE RESISTANCE DIRECTORY. MATERIALS OTHER THAN THOSE INDICATED IN THE DIRECTORY SHALL NOT BE USED.

INSULATED METALLIC PIPE THROUGH STUD FIREWALL DETAIL
NOT TO SCALE

GENERAL NOTES:

- 1) ALL WATER CLOSETS SHALL RECEIVE 1"DCW, ALL FPWH AND URINALS SHALL RECEIVE 3/4"DCW, ALL OTHER FIXTURES SHALL RECEIVE 1/2" UNLESS OTHERWISE SPECIFIED.
- 2) DEMO ALL EXISTING WATER LINES.
- 3) ALL EXISTING GAS PIPING TO REMAIN. CAP OFF EXISTING GAS TO WATER HEATER AND KITCHEN EQUIPMENT. DISCONNECT GAS PIPING AT TWO ABANDONED HVAC UNITS. COORDINATE WITH HVAC CONTRACTOR. DISCONNECTION SHALL BE MADE BY REMOVING UNION AT UNIT AND INSTALLING CAP ON LINE.

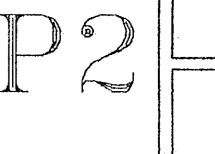
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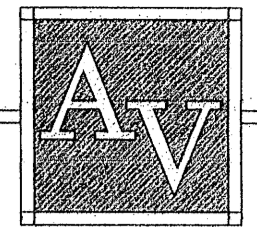
---	DCW	---	DOMESTIC COLD WATER
---	DHW	---	DOMESTIC HOT WATER
---		---	1 HR. FIRE WALL



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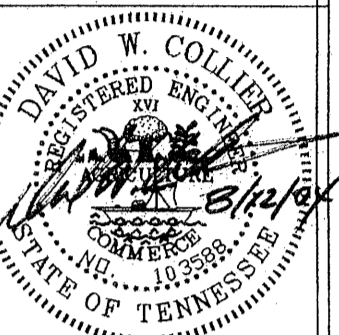




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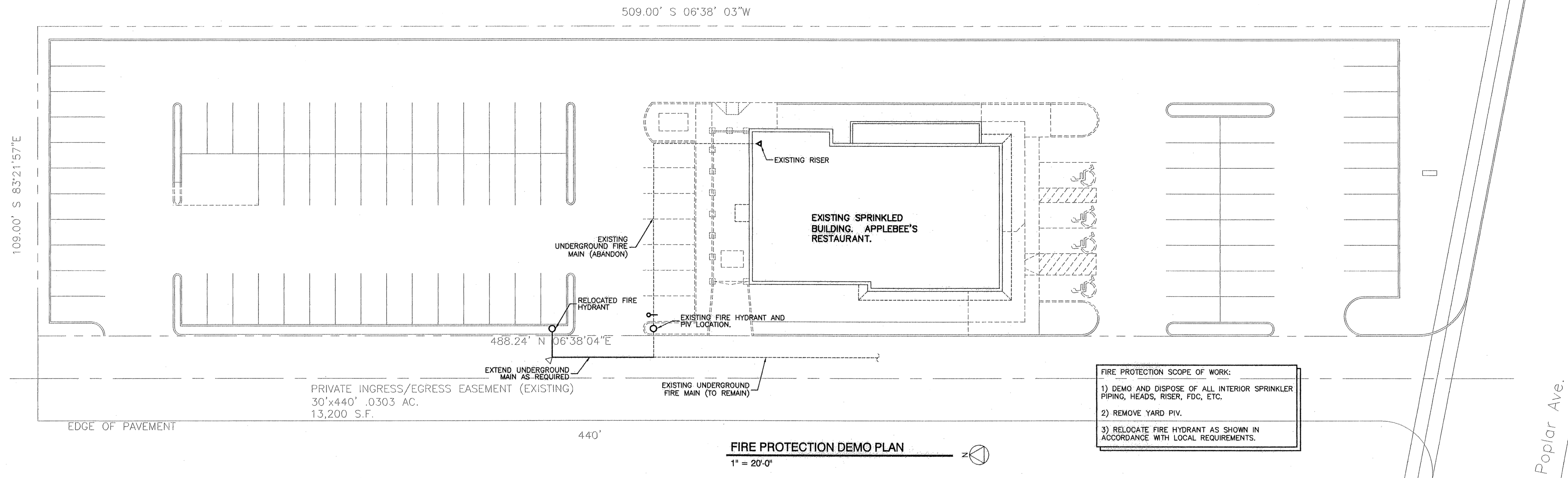
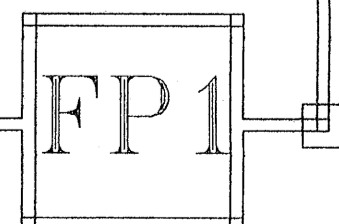
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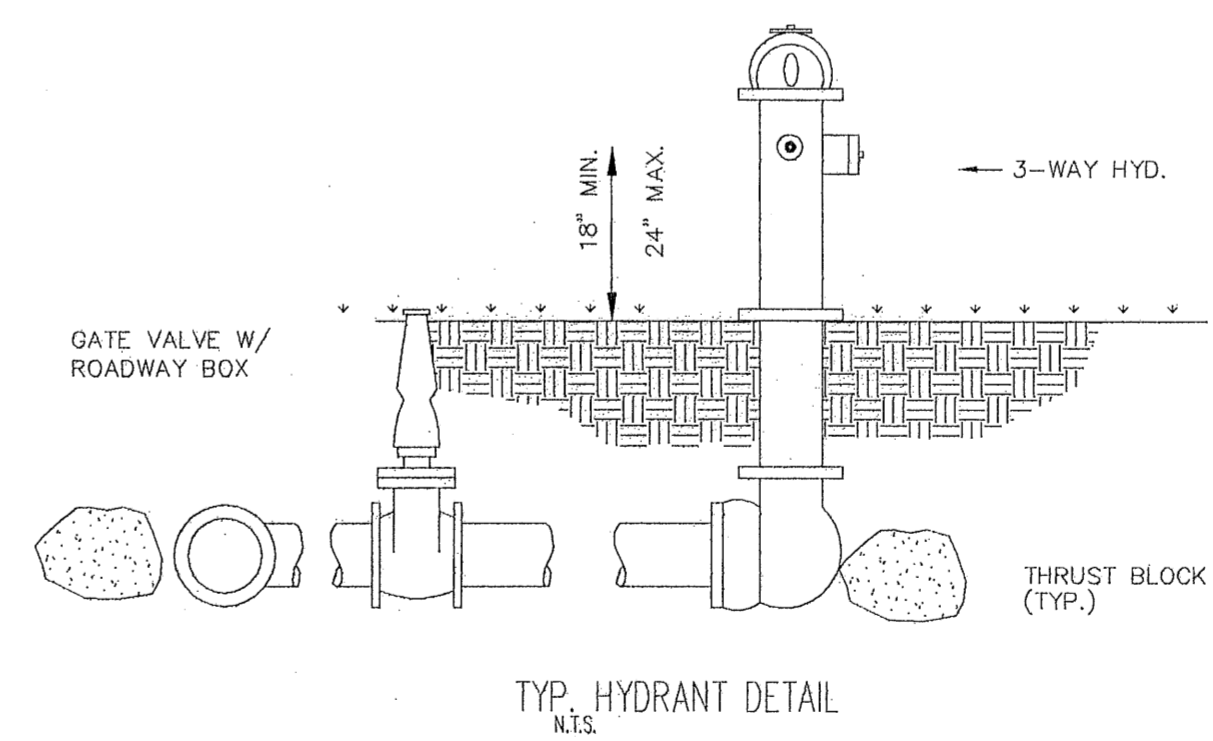


FIRE PROTECTION SCOPE OF WORK:

- 1) DEMO AND DISPOSE OF ALL INTERIOR SPRINKLER PIPING, HEADS, RISER, FDC, ETC.
- 2) REMOVE YARD PIV.
- 3) RELOCATE FIRE HYDRANT AS SHOWN IN ACCORDANCE WITH LOCAL REQUIREMENTS.

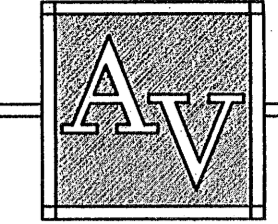
FIRE PROTECTION DEMO PLAN
1" = 20'-0"

- FIRE PROTECTION NOTES:**
1. ALL WORK SHALL BE EXECUTED AND INSPECTED IN ACCORDANCE WITH ALL LOCAL AND STATE CODES, LAWS, ORDINANCES, RULES AND REGULATIONS APPLICABLE TO THE PARTICULAR CLASS OF WORK. IF, TO THE KNOWLEDGE OF THE CONTRACTOR, THE DRAWINGS AND SPECIFICATIONS ARE IN CONFLICT WITH THE ABOVE, HE SHALL PROMPTLY NOTIFY THE ENGINEER IN WRITING SO THAT ANY NECESSARY CHANGES CAN BE PROVIDED FOR IN HIS CONTRACT. IF THE CONTRACTOR PERFORMS ANY WORK WITHOUT NOTICE AS REQUIRED, HE SHALL BEAR ALL COSTS OF CORRECTIVE ACTION.
 2. THE CONTRACTOR SHALL INCLUDE IN HIS QUOTATION ALL APPLICABLE SERVICE CHARGES, FEES, PERMITS, ROYALTIES, AND OTHER SIMILAR COSTS IN CONNECTION WITH THE WORK. OBTAIN PERMITS, AND REQUEST INSPECTIONS FROM AUTHORITY HAVING JURISDICTION.
 3. INSTALL WORK IN LOCATIONS SHOWN ON DRAWINGS, UNLESS PREVENTED BY PROJECT CONDITIONS. FOR PURPOSES OF CLEARNESS AND LEGIBILITY, DRAWINGS ARE ESSENTIALLY DIAGRAMMATIC, AND ALTHOUGH SIZE AND LOCATION OF EQUIPMENT ARE DRAWN TO SCALE WHENEVER POSSIBLE, THE CONTRACTOR SHALL REVIEW THE STRUCTURAL, ELECTRICAL, ARCHITECTURAL, FIRE PROTECTION, ETC. DRAWINGS AND DETERMINE AREAS OF INTERFERENCE. THE CONTRACTOR SHALL NOTIFY THE ARCHITECT/ENGINEER OF INTERFERENCE'S PRIOR TO FABRICATION OF PIPING.
 4. NOT USED
 5. NOT USED
 6. NOT USED
 7. TRANSPORT AND HANDLE PRODUCTS IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.
 8. STORE AND PROTECT PRODUCTS IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS, WITH SEALS AND LABELS INTACT AND LEGIBLE.
 9. NOT USED
 10. SITE FIRE PROTECTION SHALL CONFORM TO LOCAL CODES AND TO REQUIREMENTS OF LOCAL AHJ
 11. EXECUTE FINAL CLEANING PRIOR TO FINAL PROJECT ASSESSMENT.
 12. NOT USED
 13. NOT USED
 14. NOT USED
 15. NOT USED
 16. NOT USED
 17. ALL MATERIALS USED IN THE FIRE PROTECTION SYSTEM SHALL BE U.L. LISTED.
 18. ALL FIRE HOSE THREADS SHALL CONFORM TO THE LOCAL FIRE DEPARTMENT REQUIREMENTS.
 19. PROVIDE LABELS, TAGS, AND SIGNS FOR ALL VALVES, TEST PIPES, DRAINS, AND OTHER SYSTEM COMPONENTS.
 20. NOT USED
 21. NOT USED
 22. FIRE PROTECTION CONTRACTOR SHALL AVOID ALL HVAC, ELECTRICAL, PLUMBING, AND STRUCTURAL ELEMENTS, ETC. AS REQUIRED FOR THE PROPER INSTALLATION OF THE FIRE PROTECTION SYSTEM.
 23. UPON COMPLETION OF CONSTRUCTION, FURNISH THE OWNER WITH ONE COMPLETE, REPRODUCIBLE, AS-BUILT DRAWINGS SHOWING THE ACTUAL INSTALLED CONDITION OF THE FIRE PROTECTION SYSTEM.
 24. NOT USED
 25. NOT USED
 26. ALL PIPING FROM THE POINT OF SERVICE INCLUDING THE UNDERGROUND MAIN SHALL BE INSTALLED BY A SPRINKLER CONTRACTOR LICENSED TO PERFORM FIRE PROTECTION WORK IN THE PROJECT STATE. UNLESS OTHERWISE SHOWN ON THE DRAWINGS, THE POINT OF SERVICE SHALL BE THE TAP AT THE PUBLIC MAIN.
 27. HYDROSTATICALLY TEST THE FIRE PROTECTION SYSTEM IN ACCORDANCE WITH NFPA.
 28. EXTERIOR FIRE PROTECTION PIPING SHALL BE C-900 PVC OR CLASS 50 DUCTILE IRON AS ALLOWED BY LOCAL CODE.



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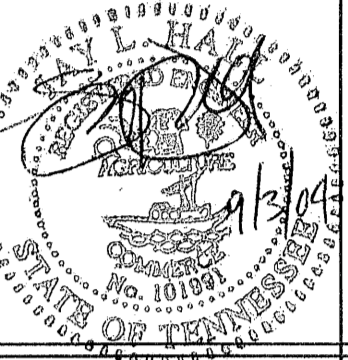
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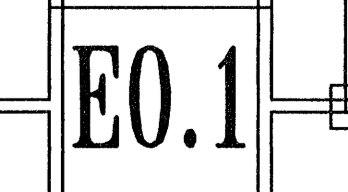
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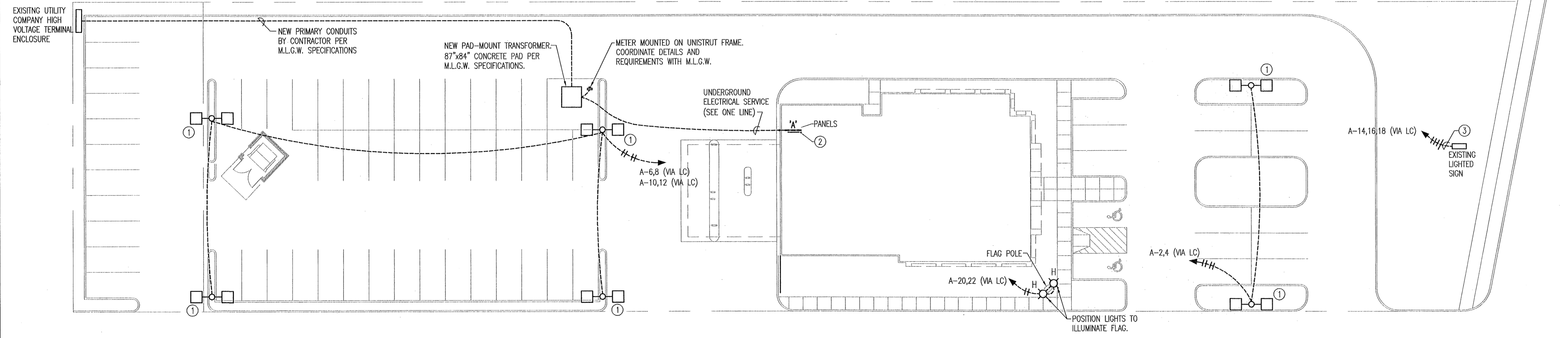
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POPLAR AVENUE
MEMPHIS, TN

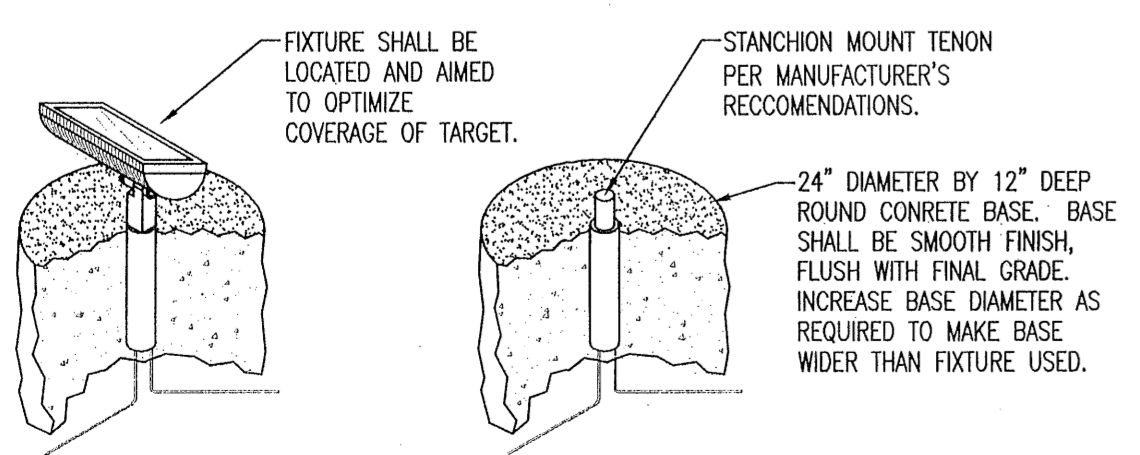


0416



SITE ELECTRICAL NOTES:

- ① EXISTING POLE LIGHT TO REMAIN AS-IS. RE-ROUTE EXISTING CIRCUITS TO NEW PANEL 'A'. PROVIDE CONDUIT, WIRE, ETC. AS REQUIRED TO RE-ROUTE/EXTEND CIRCUITS. MATCH EXISTING WIRE SIZES.
- ② EXISTING UNDERGROUND TELCO SERVICE ENTRANCE CONDUIT TO BE RE-ROUTED TO THIS LOCATION. COORDINATE DETAILS WITH LOCAL TELCO.
- ③ MAINTAIN EXISTING POWER TO NEW SIGN WHICH IS REPLACING OLD SIGN. RE-ROUTE EXISTING CIRCUIT TO NEW PANEL. PROVIDE CONDUIT, WIRE, ETC. AS REQUIRED TO RE-ROUTE/EXTEND CIRCUITS. MATCH EXISTING WIRE SIZE.



② FLOOD LIGHT MOUNTING DETAIL
NONE

① ELECTRICAL SITE PLAN
1" = 20.0'

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TAG	DESCRIPTION	MANUFACTURER	MODEL NO.	LAMPS	NOTES
A	2x4 - 4 LAMP FLUORESCENT TROFFER WITH PARABOLIC LENS	COLUMBIA	P4024-4320-MA48-S-4EB8120	4-F32T8	
A/EM	TYPE 'A' FIXTURE WITH BODINE, B90, EMERGENCY BALLAST	COLUMBIA	JT824-4320-FSA12-L25-4EB8120	4-F32T8	
B	2x4 - 4 LAMP FLUORESCENT TROFFER WITH PRISMATIC LENS	COLUMBIA	JT824-4320-FSA12-L25-4EB8120	4-F32T8	
C	2x4 - 2 LAMP FLUORESCENT STRIP	COLUMBIA	CS4-232-ED8120	2-F32T8	
D	DECORATIVE PENDANT LIGHT	LAM	LDL29-A-SO-11 7/8-BR	3-99W 128W	
E	COMPACT FLUORESCENT RECESSED DOWNLIGHT	PRESCOLITE	CF762EB-STF682	1-42W TT	
F	100W METAL HALIDE SEMI-RECESSED DOWN LIGHT	MOLDCAST	MDL5-RDE-100MH	1-100W MH	CONTRACTOR SHALL VERIFY MOUNTING CONDITIONS AND PROVIDE PROPER ACCESSORIES
G	3' - 1 LAMP UNDER CABINET LIGHT	COLUMBIA	UC36-125-EB8120	1-F25T8	COORDINATE EXACT LOCATION WITH ARCHITECT
H	GROUND MOUNTED FLAG POLE LIGHT	KIM	AFL175MH208/09P/BR3	1-175W MH	PROVIDE A 12" ROUND, 12" DEEP, FLUSH, CONCRETE BASE
	EDGE LIT EXIT LIGHT WITH BATTERY BACKUP	DUAL LITE	LEWSR4ZE		COORDINATE MOUNTING DETAILS WITH ARCHITECT
	EMERGENCY LIGHT WITH BATTERY BACKUP	DUAL LITE	LZ SERIES		
	COMBINATION EXIT/EMERGENCY LIGHT	DUAL LITE	LT SERIES		

PANEL DESIGNATION		A (SECTION 1 OF 3)		AIC RATING	22,000					
VOLTAGE AND PHASE		120/208/3PH/4W		ENCLOSURE	NEMA 1					
PANEL BUS SIZE		480A		PANEL STYLE	42 CIRCUIT					
MAIN TYPE		480A MAIN BREAKER		MANUFACTURER	SQUARE D - NOOD					
MOUNTING SURFACE				*SE. RATED / PROVIDE WITH 100KA INTERGRAL TVSS*						
CB TRIP	LOAD	FEED	LOAD IN KW	A PH	B PH	C PH	FEED	LOAD	CB TRIP	CBT #
1	20	1.2	LIGHTS	2.1			SITE POLE LIGHTS (VIA LC)	0.9	20	2
3	20	1.1	LIGHTS	2.0			SITE POLE LIGHTS (VIA LC)	0.9	20	4
5	20	1.0	LIGHTS	1.9			SITE POLE LIGHTS (VIA LC)	0.9	20	6
7	20	1.3	LIGHTS	2.2			SITE POLE LIGHTS (VIA LC)	0.9	20	8
9	20	1.4	LIGHTS	2.3			SITE POLE LIGHTS (VIA LC)	0.9	20	10
11	20	1.1	LIGHTS	2.0			SITE POLE LIGHTS (VIA LC)	0.9	20	12
13	20	1.2	LIGHTS	2.2			SITE POLE LIGHTS (VIA LC)	0.9	20	14
15	20	0.6	DRIVE THROUGH SIGNS	1.0			SITE SIGN (VIA LC)	1.0	20	16
17	20	1.2	REFRIGERATOR	2.2			SITE SIGN (VIA LC)	1.0	20	18
19	20	0.2	KITCHEN COUNTERTOP RECEPTACLES	0.4			FLAG POLE LIGHTS (VIA LC)	0.2	20	20
21	20	1.5	DISHWASHER/DISPOSAL	1.7			FLAG POLE LIGHTS (VIA LC)	0.2	20	22
23	20	0.4	KITCHEN COUNTERTOP RECEPTACLES	0.6			CANOPY LIGHTS (VIA LC)	0.6	20	24
25	20	1.1	RECEPTACLES	1.6			CANOPY LIGHTS (VIA LC)	0.5	20	26
27	20	1.1	RECEPTACLES	1.2			LIGHTING CONTACTOR CONTROL POWER	0.1	20	28
29	20	1.1	RECEPTACLES	2.0			RECEPTACLES	0.9	20	30
31	20	0.9	RECEPTACLES	1.8			RECEPTACLES	0.9	20	32
33	20	0.9	RECEPTACLES	1.8			RECEPTACLES	0.9	20	34
35	20	1.5	COFFEE	2.5			BUILDING SIGNAGE (VIA LC)	1.0	20	36
37	20	0.6	FLOOR RECEPTACLES	0.6			SPARE	0.9	20	38
39	20	1.0	HVAC CONTROL POWER	1.0			SPARE	0.9	20	40
41	20	1.0	HVAC CONTROL POWER	1.0			SPARE	0.9	20	42

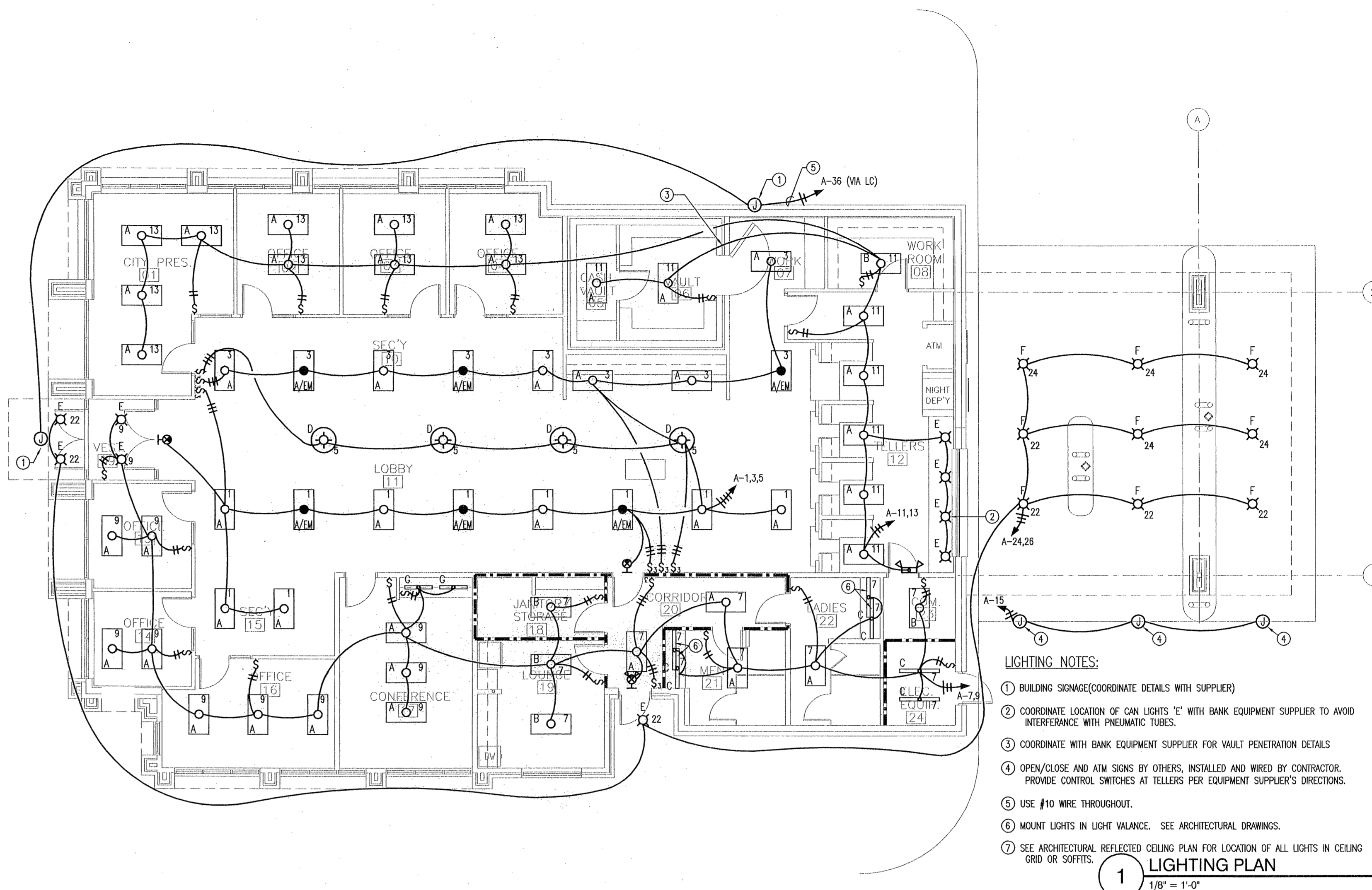
PANEL DESIGNATION		A (SECTION 2 OF 3)		AIC RATING	22,000					
VOLTAGE AND PHASE		120/208/3PH/4W		ENCLOSURE	NEMA 1					
PANEL BUS SIZE		480A		PANEL STYLE	42 CIRCUIT					
MAIN TYPE		MAIN LUG ONLY		MANUFACTURER	SQUARE D - NOOD					
MOUNTING SURFACE				*SE. RATED*						
CB TRIP	LOAD	FEED	LOAD IN KW	A PH	B PH	C PH	FEED	LOAD	CB TRIP	CBT #
43	20	0.4	RECEPTACLE: VAULT	2.6			EW-1	2.2	30	44
45	20	1.0	RECEPTACLE: COPIER	3.2			EW-1	2.2	30	46
47	20	1.1	RECEPTACLES	5.9			RTU (HACR)	4.8	50	48
49	20	0.8	RECEPTACLE: TELLER	5.6			RTU (HACR)	4.8	50	50
51	20	0.8	RECEPTACLE: TELLER	5.6			RTU (HACR)	4.8	50	52
53	20	0.8	RECEPTACLE: TELLER	5.6			RTU (HACR)	4.8	50	54
55	20	0.8	RECEPTACLES	5.6			RTU (HACR)	4.8	50	56
57	20	0.6	RECEPTACLES	5.4			ROOF TOP RECEPTACLE	4.8	50	58
59	20	1.0	RECEPTACLE: COPIER	1.2			BANK EQUIPMENT RECEPTACLE	0.4	20	60
61	20	0.0	SPARE	0.4			BANK EQUIPMENT RECEPTACLE	0.4	20	62
63	20	0.0	SPARE	0.4			BANK EQUIPMENT RECEPTACLE	0.4	20	64
65	20	0.0	SPARE	0.4			TELEPHONE EQUIPMENT RECEPTACLE	0.4	20	66
67	20	0.0	SPARE	0.2			ELECTRICAL EQUIPMENT ROOM OUTLET	0.2	20	68
69	20	0.0	SPARE	0.4			RECEPTACLES AT TELLERS	0.4	20	70
71	20	0.0	SPARE	0.4			RECEPTACLES AT TELLERS	0.4	20	72
73	20	0.0	SPARE	0.4			RECEPTACLES AT TELLERS	0.4	20	74
75	20	0.0	SPARE	0.0			SPARE	0.0	20	76
77	20	0.0	SPARE	0.0			SPARE	0.0	20	78
79	20	0.0	SPARE	0.0			SPARE	0.0	20	80
81	20	0.0	SPARE	0.0			SPARE	0.0	20	82
83	20	0.0	SPARE	0.0			SPARE	0.0	20	84

PANEL DESIGNATION		A (SECTION 3 OF 3)		AIC RATING	22,000					
VOLTAGE AND PHASE		120/208/3PH/4W		ENCLOSURE	NEMA 1					
PANEL BUS SIZE		480A		PANEL STYLE	20 CIRCUIT					
MAIN TYPE		MAIN LUG ONLY		MANUFACTURER	SQUARE D - NOOD					
MOUNTING SURFACE				*SE. RATED* - SEE NOTE BELOW						
CB TRIP	LOAD	FEED	LOAD IN KW	A PH	B PH	C PH	FEED	LOAD	CB TRIP	CBT #
85	20	0.0	SPARE	0.0			BLANK			86
87	20	0.0	SPARE	0.0			BLANK			88
89	20	0.0	SPARE	0.0			BLANK			90
91	20	0.0	SPARE	0.0			BLANK			92
93	20	0.0	SPARE	0.0			BLANK			94
95	20	0.0	SPARE	0.0			BLANK			96
97	20	0.0	SPARE	0.0			BLANK			98
99	20	0.0	SPARE	0.0			BLANK			100
101	20	0.0	SPARE	0.0			BLANK			102
103	20	0.0	SPARE	0.0			BLANK			104
PHASE TOTALS			26.0	26.6	26.1					
PANEL TOTAL			78.7							

NOTE:
BANK EQUIPMENT BRANCH CIRCUIT BREAKERS ARE NOT SHOWN IN THE PANEL SCHEDULE. THE CONTRACTOR SHALL INSURE THAT ALL REQUIRED BREAKERS ARE SUPPLIED AND THAT AT LEAST TEN (10) SPARE 1P/20A BREAKERS ARE SUPPLIED.

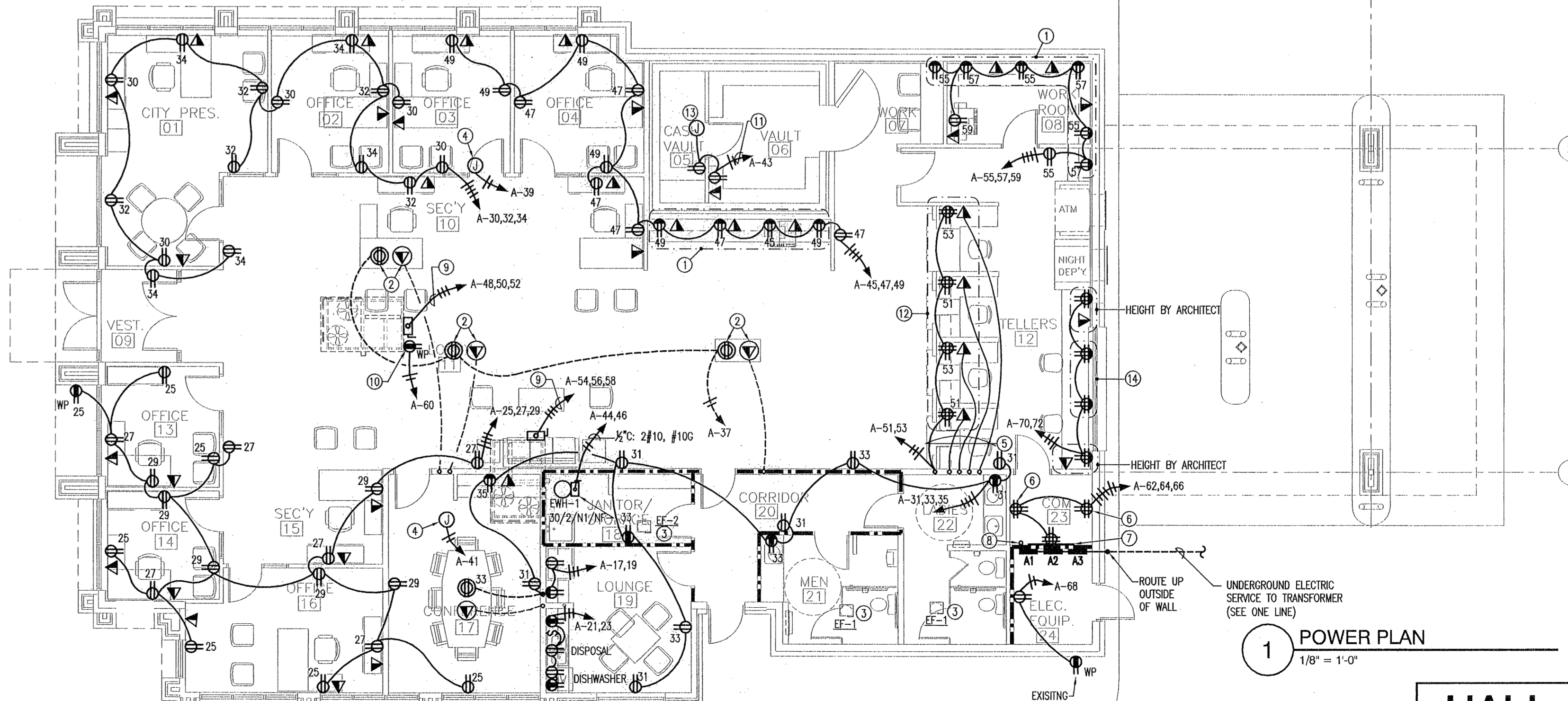
POWER NOTES:

- LOCATE ABOVE COUNTER. SEE ARCHITECTURAL DETAILS.
- GET EXACT DIMENSION INFORMATION FROM ARCHITECT PRIOR TO ROUGH-IN.
- CONNECT EXHAUST FAN TO SPACE'S SWITCHED LIGHTING CIRCUIT.
- PROVIDE A DEDICATED CIRCUIT ABOVE THE CEILING FOR HVAC CONTROL POWER. COORDINATE DETAILS WITH DIVISION 15.
- ROUTE CONCEALED THROUGH COUNTER STUD WALLS. SEE ARCHITECTURAL DETAILS.
- PROVIDE OUTLETS FOR BANK SECURITY EQUIPMENT. COORDINATE WITH OWNER TO FIELD LOCATE.
- PROVIDE A 4"x8"x4" FIRE-RATED PLYWOOD TELEPHONE BOARD.
- NEW LOCATION FOR TELEPHONE SERVICE ENTRANCE CONDUIT ROUGH-IN. RE-ROUTE EXISTING CONDUIT. SAW-CUT CONCRETE SLAB AND PATCH AS REQUIRED. PROVIDE NEW CONDUIT AS REQUIRED. COORDINATE DETAILS WITH LOCAL TELCO.
- RE-ROUTE EXISTING CIRCUIT TO PANEL 'A'. PROVIDE CONDUIT AND WIRE AS REQUIRED.
- EXISTING RECEPTACLE ON ROOF. CONNECT TO NEW PANEL 'A'.
- COORDINATE WITH BANK EQUIPMENT SUPPLIER FOR VAULT PENETRATION DETAILS.
- SEE ARCHITECTURAL FOR EXACT MOUNTING LOCATIONS.
- PROVIDE POWER TO ELECTRIC DOOR CONTROLS. SEE BANK VENDOR DRAWINGS FOR DETAILS.
- GENERAL PURPOSE RECEPTACLES TO BE INSTALLED IN ADDITION TO BANK EQUIPMENT RECEPTACLES AS SPECIFIED ON BANK VENDOR DRAWINGS. COORDINATE TO LOCATE RECEPTACLES UNDER COUNTER WHERE THEY WILL NOT INTERFERE WITH BANK EQUIPMENT.



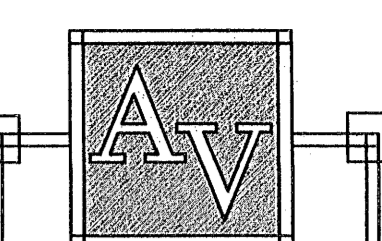
- LIGHTING NOTES:**
- BUILDING SIGNAGE (COORDINATE DETAILS WITH SUPPLIER)
 - COORDINATE LOCATION OF CAN LIGHTS 'E' WITH BANK EQUIPMENT SUPPLIER TO AVOID INTERFERENCE WITH PNEUMATIC TUBES.
 - COORDINATE WITH BANK EQUIPMENT SUPPLIER FOR VAULT PENETRATION DETAILS
 - OPEN/CLOSE AND ATM SIGNS BY OTHERS, INSTALLED AND WIRED BY CONTRACTOR. PROVIDE CONTROL SWITCHES AT TELLERS PER EQUIPMENT SUPPLIER'S DIRECTIONS.
 - USE #10 WIRE THROUGHOUT.
 - MOUNT LIGHTS IN LIGHT VALANCE. SEE ARCHITECTURAL DRAWINGS.
 - SEE ARCHITECTURAL REFLECTED CEILING PLAN FOR LOCATION OF ALL LIGHTS IN CEILING GRID OR SOFFITS.
- 1 LIGHTING PLAN**
1/8" = 1'-0"

NOTE:
THE ELECTRICAL CONTRACTOR SHALL PROVIDE ALL POWER AND CONTROL CONDUIT AND WIRING FOR BANK EQUIPMENT AS DETAILED AND SPECIFIED ON THE OWNER'S BANK EQUIPMENT VENDOR DRAWINGS. THIS SHALL INCLUDE ALL BRANCH CIRCUIT BREAKERS, BRANCH CIRCUIT WIRING, WIRING DEVICES, EMPTY CONDUIT SYSTEMS, TERMINATIONS, ETC... AS REQUIRED FOR A COMPLETE OPERATING BANK/SECURITY SYSTEM.



1 POWER PLAN
1/8" = 1'-0"

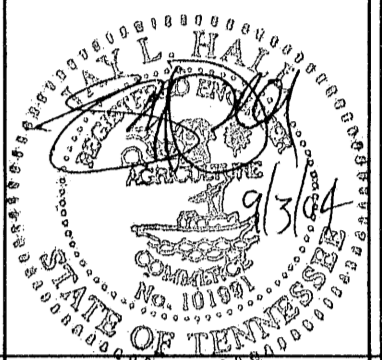
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ANDERSON VAUGHAN ARCHITECTS

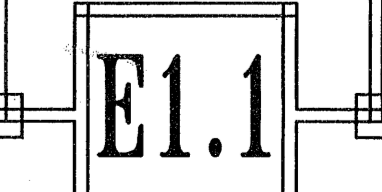
1ST TENNESSEE BANK BUILDING
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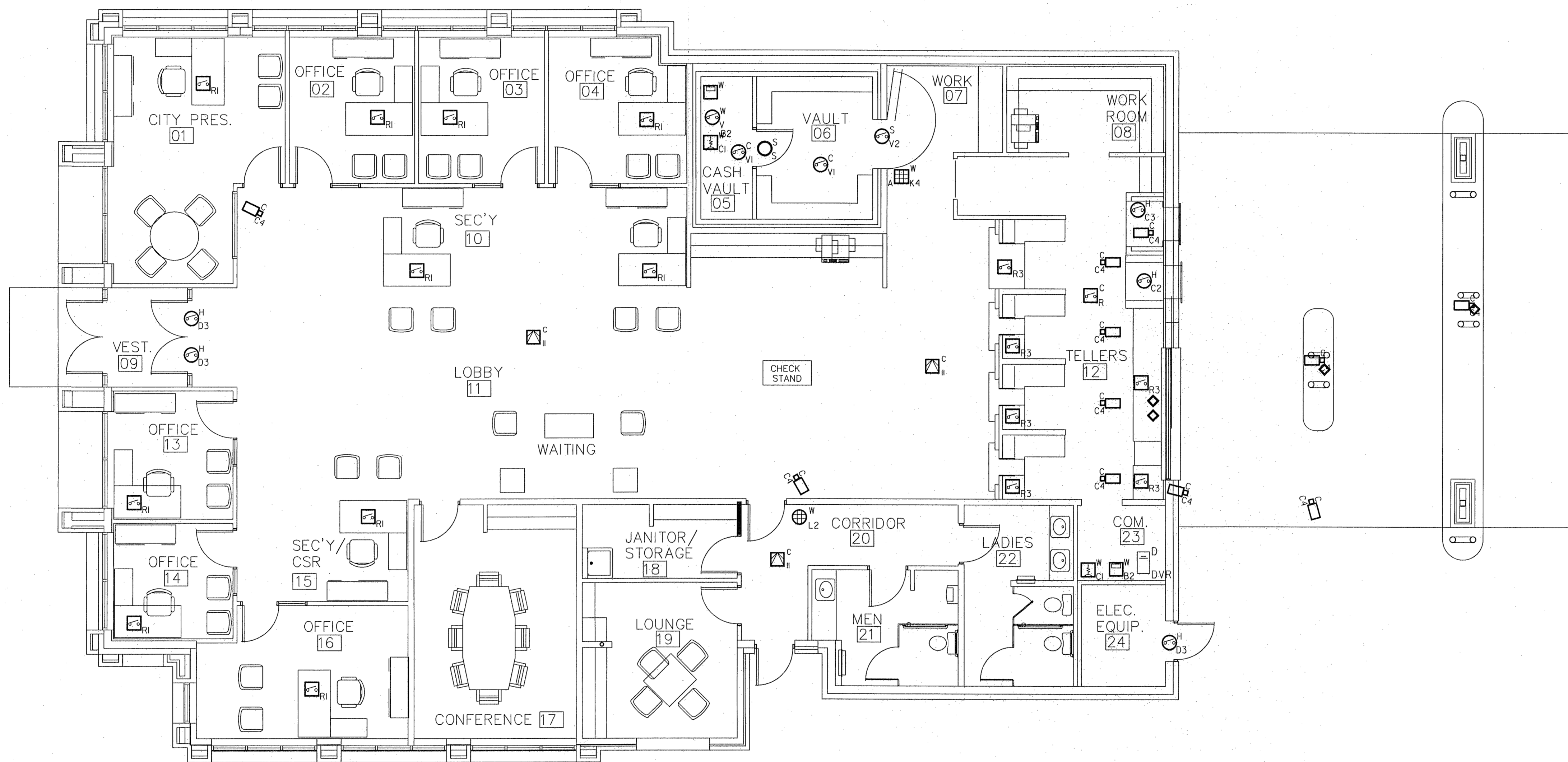
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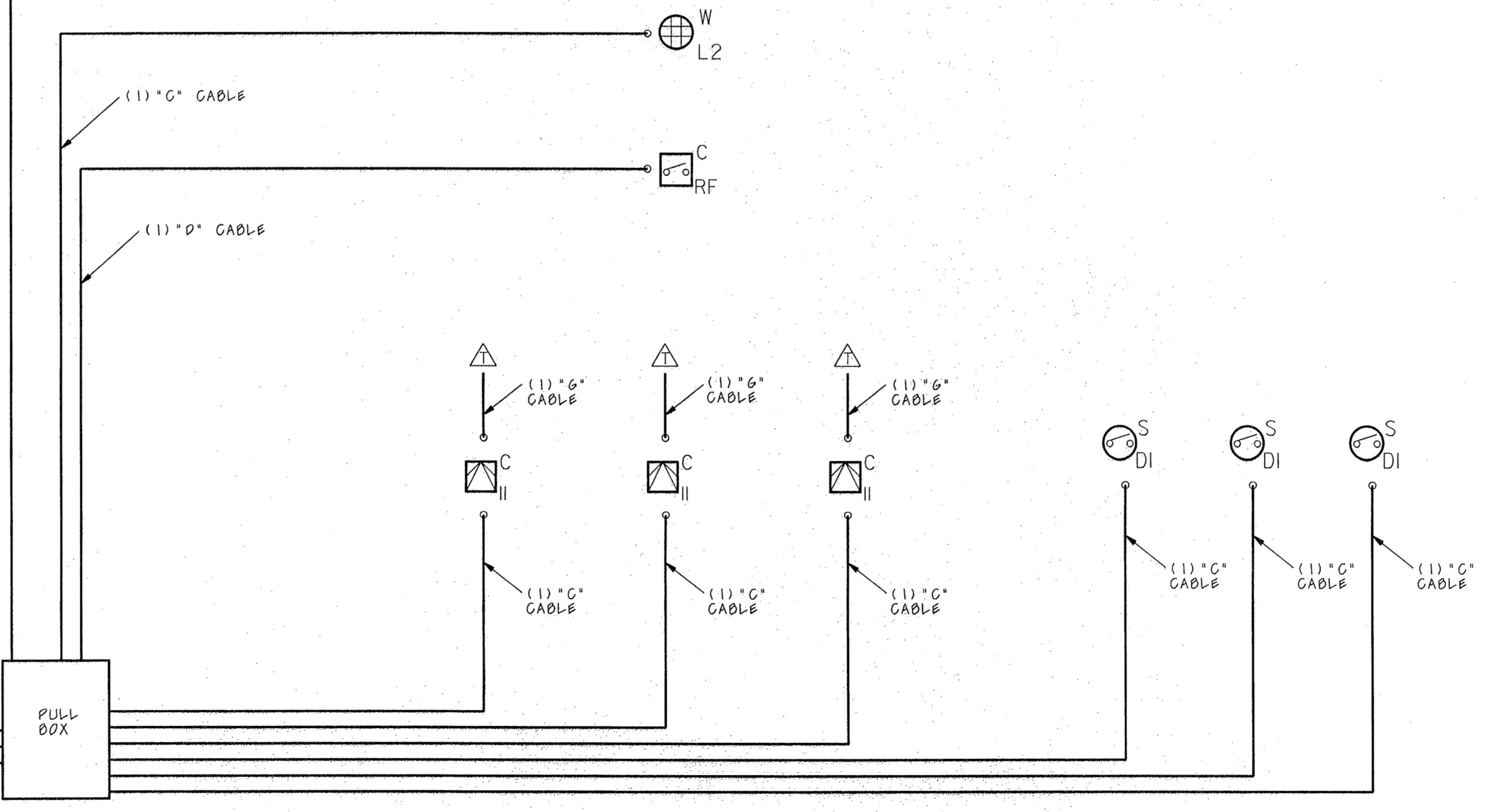
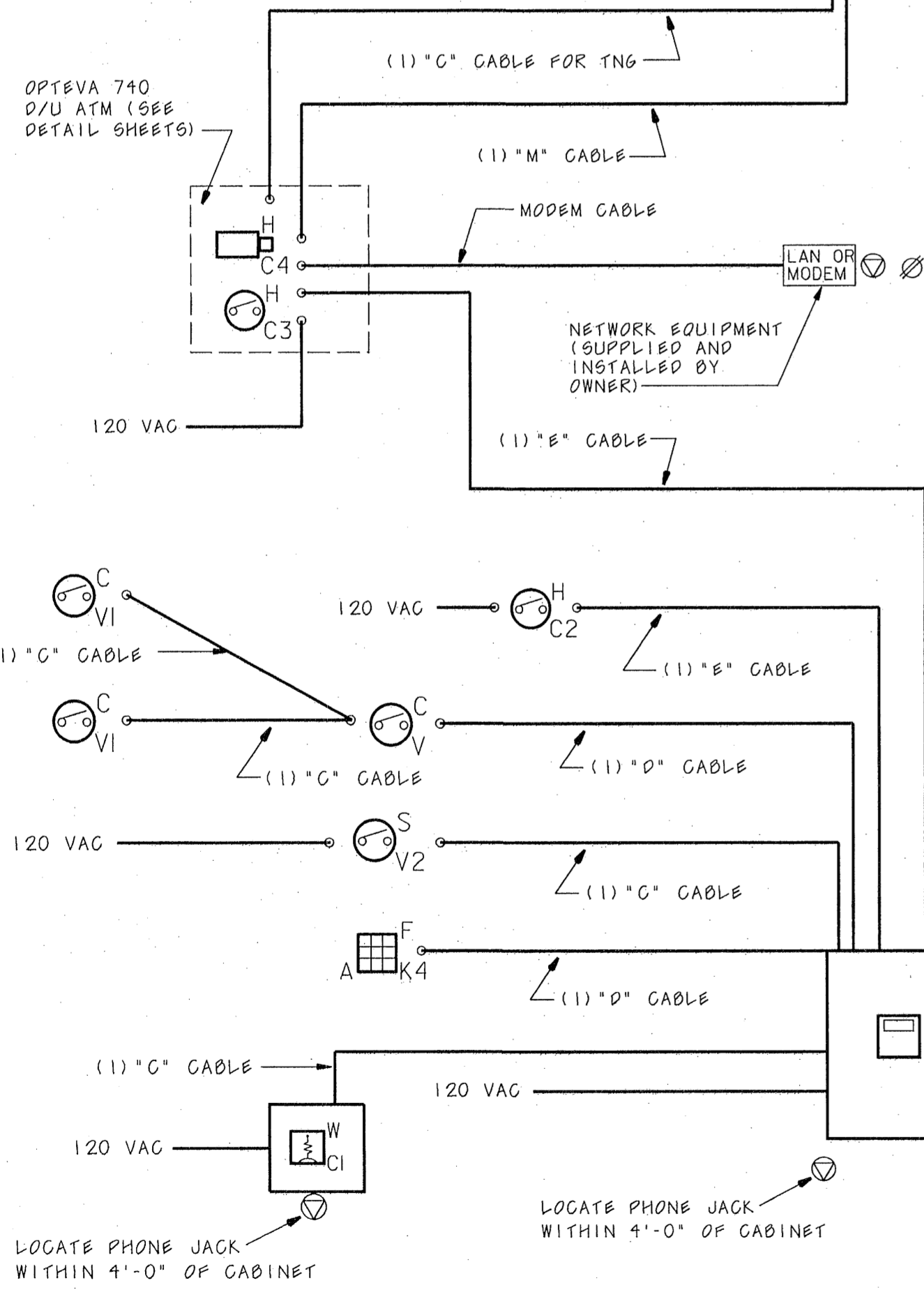
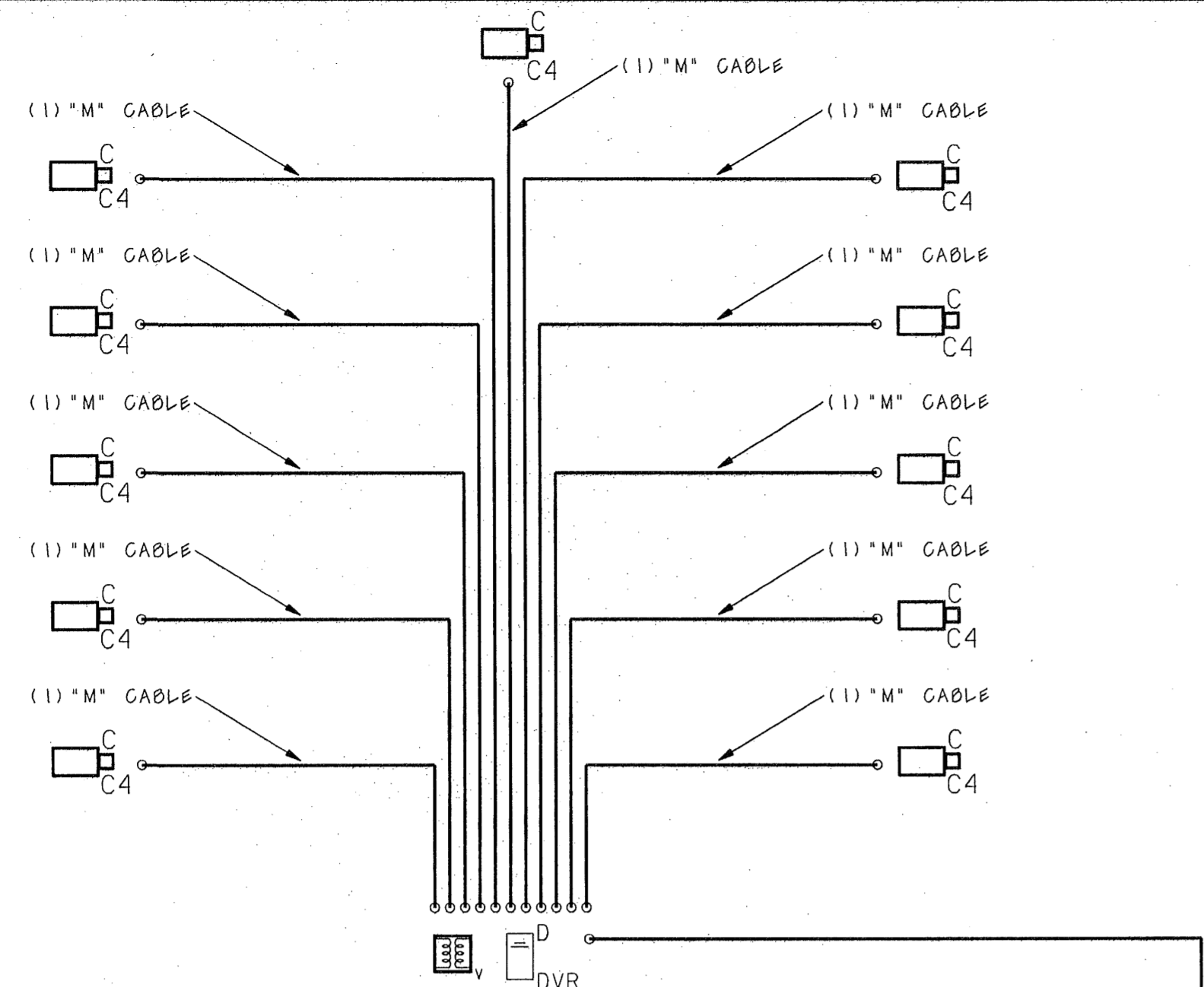
A NEW BRANCH BANK FACILITY FOR
FirstBank
POPLAR AVENUE
MEMPHIS, TN





SYMBOL DESCRIPTION		SIA/IAPSC CAD SECURITY SYMBOLS	
M=MOUNT	T=TECHNOLOGY/TYPE (SPECIFIC TO DEVICE)	M=P-PEDESTAL	T=TURNSTILE
		S=SURFACE	F=FLASH
		R=RACK	H=HIDDEN
		M=MULLION	D=DESK
		W=WALL	CP=CEILING
		H=HIDDEN	
A B C	DEVICE REFERENCE	A: DRAWING SHEET	B: DETAIL
		C: DEVICE / ZONE NUMBER	
B2	CONTROL PANEL	B2= D-1700	
M	AUTOMATIC MONITORING SWITCH	C2= AFTER HOUR DEPOSITORY C3= AUTOMATIC TELLER MACHINE D3= DOOR CONTACT - RECESSED V= VAULT SOUND INTERFACE VI= VAULT SOUND DETECTOR V2= DIEBOLD VAULT DOOR CONTACT	
H	MANUAL OPERATED SWITCH	R= RF RECEIVER INOVONICS RI= WIRELESS HOLD UP BUTTON R3= WIRELESS BILL TRAP	
L2	AUDIO/VISUAL	L2= ALARM LAMP	
K4	KEYPAD SWITCH/CONTROL	K4= ALPHA-NUMERIC KEYPAD	
I	MOTION SENSOR	I= PASSIVE INFRARED	
C4	VIDEO CAMERA	C4= 1/3" COLOR CAMERA	
DVR	VIDEO RECORDER	DVR= G.E. VIDEO RECORDER SDVR-10-250	
CI	CELLULAR TRANSMISSION	CI= TELGUARD 300M CELLULAR BACKUP	
S		S= DOOR SCOPE (LOCAL PURCHASE)	
ELECTRICAL			
TRANSFORMER			
MISCELLANEOUS			
DUPLX RECEPTACLE (BY E.C.)			
PHONE JACK (BY OTHERS)			
12" x 12" x 4" JUNCTION BOX (BY E.C.)			
NETWORK ROUTER/SWITCHER (BY OWNER)			
JUNCTION BOX 6" x 6" x 4" (BY OTHERS)			
THESE SYMBOLS ARE NON SIA/IAPSC STANDARD			





SYMBOL DESCRIPTION

M=MOUNT
T=TECHNOLOGY/TYPE (SPECIFIC TO DEVICE)

SIA/IAPSC CAD SECURITY SYMBOLS

M=PEDESTAL
T=TURNSTILE
S=SURFACE
F=FLUSH
R=RACK

M=MULLION
D=DESK
W=WALL
C=CEILING
H=HIDDEN

DEVICE REFERENCE A=DRAWING SHEET B=DETAIL C=DEVICE/ZONE NUMBER

CONTROL PANEL
B2=D-1700

AUTOMATIC MONITORING SWITCH
C2= AFTER HOUR DEPOSITORY
C3= AUTOMATIC TELLER MACHINE
D3= DOOR CONTACT - RECESSED
V= VAULT SOUND INTERFACE
V1= VAULT SOUND DETECTOR
V2= DIEBOLD VAULT DOOR CONTACT

MANUAL OPERATED SWITCH
R= RF RECEIVER INOVONICS
R1= WIRELESS HOLD UP BUTTON
R3= WIRELESS BILL TRAP

AUDIO/VISUAL
L2= ALARM LAMP

KEYPAD SWITCH/CONTROL
K4= ALPHA-NUMERIC KEYPAD

MOTION SENSOR
H= PASSIVE INFRARED

VIDEO CAMERA
C4= 1/3" COLOR CAMERA

VIDEO RECORDER
DVR= G.E. VIDEO RECORDER SDVR-10-250

CELLULAR TRANSMISSION
C1= TELGUARD 300M CELLULAR BACKUP

ELECTRICAL

POWER SUPPLY
V= VIDEO

TRANSFORMER

MISCELLANEOUS

* DUPLEX RECEPTACLE (BY E.C.)
* PHONE JACK (BY OTHERS)
* 12" x 12" x 4" JUNCTION BOX (BY E.C.)
* NETWORK ROUTER/SWITCHER (BY OWNER)
* JUNCTION BOX 6" x 6" x 4" (BY OTHERS)

* THESE SYMBOLS ARE NON SIA/IAPSC STANDARD

ELECTRONIC SECURITY & SURVEILLANCE CABLE SCHEDULE

CABLE REQ'D.	CABLE TYPE	CABLE PART NO.	DESCRIPTION	NOMINAL O.D.	TYPICAL USAGE
A		9-122021-9262	*22 GAUGE, 2 CONDUCTORS, STRANDED, FOL. SHIELD, W/DRAIN, COLOR CODED	.124"	DOOR CONTACTS, PHONE LINE (BANK END), TIME/DATE VALIDATOR, TRANSFORMERS AND ACCESSORIES
B		BELDEN 8723	*22 GAUGE, 2 TWISTED PAIR, INDIV. FOL. SHIELDS, W/DRAIN, COLOR CODED	.165"	REMOTE UNIT (MPS 1020) COMM. (NOT FOR RS422/485 COMM.)
C		9-122043-6262	*22 GAUGE, 4 CONDUCTOR, STRANDED, FOL. SHIELD, W/DRAIN, COLOR CODED	.143"	SOUND & SMOKE DETECTORS, VAULT VENT., CAMERA TRIP, VAULT DOOR PROTECTION, R/F RECEIVER, INSIDE AUX. BELL, AIR BELL, AIR LOCK & HOLD-UP DEVICES
D		9-122083-6262	*22 GAUGE, 8 CONDUCTORS, STRANDED, FOL. SHIELD, W/DRAIN, COLOR CODED	.186"	ANNUNCIATOR DISPLAY HOLD-UP DEVICES MODULAR SECURITY KEYPAD BILL TRAP THREE BUTTON
E		9-122083-7262	*22 GAUGE, 8 CONDUCTORS, STRANDED, BRAIDED SHIELD, NO DRAIN	.207"	AFTER HOUR DEPOSITORY & ATM ALL SAFES & LOCKERS (OUTSIDE THE VAULT)
F		9-12243-6262	*22 GAUGE, 4 CONDUCTORS, STRANDED, FOL. SHIELD W/ DRAIN, COLOR CODED	.237"	MODE SELECT SWITCH
G		BELDEN 9740	*8 GAUGE, 2 CONDUCTORS, STRANDED, NO SHIELD	.210"	ELECTRIC STRIKES LOW VOLT POWER WIRE ARLOCK (CONTROL) TRANSFORMERS
H		9-18083-8262	*8 GAUGE, 8 CONDUCTORS, STRANDED, FOL. SHIELD W/DRAIN, COLOR CODED	.253"	CL-35 CAMERA, ATM CAMERA, AIR BELL & OUTSIDE BELL HOUSING
J		9-022064-9262	*22 GAUGE, 6 CONDUCTORS, STRANDED	.209"	ICAM ACCESS CONTROL
K		9-022089-9262	*22 GAUGE, 4 TWISTED PAIRS STRANDED	.281"	ICAM COMMUNICATION
L		9-024083-6262	*24 GAUGE, 8 CONDUCTORS, SOLID CONDUCTORS, COLOR CODED, FOL. SHIELD W/DRAIN	.250"	PHONE LINE (POLICE END)
M		9-05010-5262	RG-59U COAX CABLE *22 GAUGE, 2 CONDUCTOR, FOL. SHIELD W/ DRAIN	.447" X .242"	LOW VOLTAGE TV CAMERA
N		BELDEN 8241	RG-59U COAX CABLE	.242"	TV CAMERA MONITORS (CCTV), AND VIDEO TAPE RECORDERS SYSTEM
P		9-020041-9262	*20 GAUGE, 4 CONDUCTORS, STRANDED, TIN/COPPER BRAID SHIELD	.305"	ZOOM LENS (CCTV)
Q		9-020061-9262	*20 GAUGE, 6 CONDUCTORS, STRANDED, TIN/COPPER BRAID SHIELD	.305"	PAN/TILT (CCTV)
R		9-020101-9262	*20 GAUGE, 10 CONDUCTORS, STRANDED, TIN/COPPER BRAID SHIELD	.396"	PAN/TILT/ZOOM (CCTV)
S		BELDEN 8760	18 GAUGE, (1) TWISTED PAIR, FOL. SHIELD W/ DRAIN	.222"	ACS-PC CURRENT LOOP
T		9-024023-6262 OR 9-052033-9262	*24 GAUGE, 25 CONDUCTOR, STRANDED, FOL. SHIELD W/DRAIN, COLOR CODED	.355" OR .405"	SC-600 (FIELD INSTALLED)
V		BELDEN 9730	*24 GAUGE, 3 TWISTED PAIR, INDIV. FOL. SHIELDS, W/DRAIN, COLOR CODED, LOW CAP.	.345"	RS422/485 COMMUNICATION ENTRYNET READERS (RCM)
W		BELDEN 9942	*22 GAUGE (6) CONDUCTORS FOL. SHIELD PVC JACKET	.245"	ACCESS CONTROL READERS (ACS-PC) (NOT FOR 1081, 1082 AND 1092) ALSO RS232 APPLICATIONS
Z		9-152053-6262	*22 GAUGE, 2 PAIR FOL. SHIELDED, 1 PAIR UNSHIELDED AND 17 SINGLE CONDUCTOR PVC JACKET	.355"	VAT I2
AA		19-03696-0-00-A	2 CONDUCTOR, 18 GAUGE, COLOR RED MEETS NEC SPECIFICATIONS, IS LISTED FOR POWER LIMITED SIGNALING CIRCUITS	.155"	FOR 2 WIRE SMOKE DETECTORS THAT NEED NEC SPECIFICATIONS
BB		19-03696-0-00-B	4 CONDUCTOR, 18 GAUGE, COLOR RED MEETS NEC SPECIFICATIONS, IS LISTED FOR POWER LIMITED SIGNALING CIRCUITS	.180"	FOR 4 WIRE SMOKE DETECTORS THAT NEED NEC SPECIFICATIONS
CC		BELDEN 9504	*24 GAUGE, 4 TWISTED PAIRS, STRANDED, OVERALL FOL. SHIELD, WITH DRAIN	.265"	ACCESS CONTROL READERS (00-10007-0004)
DD		BELDEN 9873	6 CONDUCTOR *20 GAUGE, 3 TWISTED PAIR, FOL. SHIELD W/DRAIN, COLOR CODED	.328"	DAC-5000 ACCESS CONTROL READER
EE		BELDEN 8740	2 CONDUCTOR, *22 GAUGE, TWISTED PAIR WITH JACKET, COLOR CODED	.146"	DAC-5000 PERIPHERAL DEVICES
FF		BELDEN 9842	*24 GAUGE, 2 TWISTED PAIR, FOL. AND BRAID SHIELD, W/DRAIN, COLOR CODED, LOW CAP.	.380"	RS485 APPLICATIONS ACCESS CONTROL (ACS-600/3200)

PLENUM CABLES

CABLE REQ'D.	CABLE TYPE	CABLE PART NO.	DESCRIPTION	NOMINAL O.D.	TYPICAL USAGE
A/P		BELDEN 82761	22 GAUGE, 2 CONDUCTOR, COLOR CODED PLENUM	.118"	DOOR CONTACTS, PHONE LINE (BANK END), TIME/DATE VALIDATOR, TRANSFORMERS AND ACCESSORIES
B/P		BELDEN 82723	24 GAUGE, 4 CONDUCTOR, STRANDED TWISTED PAIR, COLOR CODED, PLENUM	.141"	REMOTE COMMUNICATION
C/P		9-122043-6262	22 GAUGE, 4 CONDUCTOR, FOL. SHIELD PLENUM	.135"	SOUND & SMOKE DETECTORS, VAULT VENT., CAMERA TRIP, VAULT DOOR PROTECTION, R/F RECEIVER, INSIDE AUX. BELL, AIR BELL, AIR LOCK & HOLD-UP DEVICES
D/P		9-122085-6262	22 GAUGE, 8 CONDUCTOR, FOL. SHIELD PLENUM	.173"	ANNUNCIATOR DISPLAY HOLD-UP DEVICES MODULAR SECURITY KEYPAD BILL TRAP THREE BUTTON
E/P		9-122085-5262	22 GAUGE, 8 CONDUCTOR, FOL. AND BRAID SHIELD, PLENUM	.195"	AFTER HOUR DEPOSITORY & ATM ALL SAFES & LOCKERS (OUTSIDE THE VAULT)
G/P		BELDEN 82740	18 GAUGE, 2 CONDUCTOR, STRANDED TWISTED PAIR, COLOR CODED, PLENUM	.143"	ELECTRIC STRIKES
H/P		9-18085-6262	18 GAUGE, 8 CONDUCTOR, FOL. SHIELD, PLENUM	.233"	CL-35 CAMERA, ATM CAMERA, AIR BELL & OUTSIDE BELL HOUSING
J/P		9-022065-3262	22 GAUGE 6 CONDUCTORS, STRANDED, PLENUM	.15"	ICAM ACCESS CONTROL
K/P		9-022083-2262	22 GAUGE 4 TWISTED PAIRS STRANDED CONDUCTOR HALAR INSULATION FLAME ARREST JACKET, PLENUM	.22"	ICAM COMMUNICATION
M/P		9-050205-6262	22 GAUGE, 1 TWISTED PAIR, SHIELD WITH DRAIN * COAX RG-59U, PLENUM	.447" X .242"	LOW VOLTAGE CCTV CAMERA COAX AND POWER
S/P		BELDEN 82760	18 GAUGE, (1) TWISTED PAIR, FOL. SHIELD W/ DRAIN, PLENUM	.157"	ACS-PC CURRENT LOOP
V/P		BELDEN 89730	*24 GAUGE, 3 TWISTED PAIR, INDIV. FOL. SHIELDS, W/DRAIN, COLOR CODED, LOW CAP., PLENUM	.298"	ACCESS CONTROL COMMUNICATION
W/P		BELDEN 83556	22 GAUGE, 6 CONDUCTOR, STRANDED FOL. AND BRAID SHIELD, PLENUM	.193"	ACCESS CONTROL READERS (ACS-PC) (NOT FOR 1081, 1082 AND 1092) ALSO RS232 APPLICATIONS

NOTE: ALL WIRE SHOWN ON THIS PAGE MAY BE RUN IN CONDUIT, IF CONDUIT IS NOT USED, IT IS THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR TO PROVIDE WIRE THAT MEETS THE N.E.C. CODE FOR ITS APPLICATION.

NOTE: ALL CABLE USED MUST BE U.L. LISTED

NOTE: TO ORDER YOUR CABLE OR CONSULT ON YOUR CABLE PROJECT NEEDS, CALL ANXETER AT THE LOCATION CLOSEST TO YOU.

ANN ARBOR, MI	734/779-0845	NEW ORLEANS, LA	504/888-8737
APPLETON, WI	414/730-9309	ORLANDO, FL	407/826-4321
ATLANTA, GA	404/925-0500	PHILADELPHIA, PA	610/534-5851
CHICAGO, IL	708/875-0100	PHOENIX, AZ	602/958-2828
CINCINNATI, OH	513/489-5590	PITTSBURGH, PA	412/273-9150
CLEVELAND, OH	216/546-4465	PORTLAND, OR	503/306-4444
DALLAS, TX	214/245-9500	RALEIGH, NC	919/944-5727
DENVER, CO	303/373-1744	RICHMOND, VA	804/747-1516
DETROIT, MI	810/442-2426	ROCHESTER, NY	716/241-0500
HOUSTON, TX	713/460-3538	ST. LOUIS, MO	314/423-9710
INDIANAPOLIS, IN	317/240-0008	SALT LAKE CITY, UT	801/973-0302
KANSAS CITY, KS	913/894-6009	SEATTLE, WA	206/259-3185
MANCHESTER, NH	603/644-1024	TULSA, OK	918/564-6983
MILWAUKEE, WI	414/355-8886	UNION CITY, CA	510/489-7430

CABLE SPECIFICATIONS

Table with columns: CABLE TYPE, CABLE PART NO., DESCRIPTION, NOMINAL O.D., TYPICAL USAGE. Lists various cable types (A-Z) with their specifications and uses.

Table with columns: CABLE TYPE, CABLE PART NO., DESCRIPTION, NOMINAL O.D., TYPICAL USAGE. Lists plenum cables (AA-Z) with their specifications and uses.

Table with columns: CABLE TYPE, CABLE PART NO., DESCRIPTION, NOMINAL O.D., TYPICAL USAGE. Lists plenum cables (A/W) with their specifications and uses.

ALARM AND SURVEILLANCE STANDARDS

NOTE:

TO ORDER YOUR CABLE OR CONSULT ON YOUR CABLE PROJECT NEEDS, CALL ANKSTER AT THE LOCATION CLOSEST TO YOU.

LATIN AMERICA ARGENTINA 54-05-072 BRAZIL 55-11-54-8989 COLOMBIA 57-02-22-891 GUADALAJARA 52-3-478-9206 MEXICO CITY 525-628-8902 MONTERREY 52-8-339-2205 VENEZUELA 58-245-8664

MINNEAPOLIS, MN 612-542-8324 NEW ORLEANS, LA 504-888-8737 ORLANDO, FL 407-926-4320 PHILADELPHIA, PA 610-871-3300 PHOENIX, AZ 602-968-2820 PITTSBURGH, PA 412-494-4320 PORTLAND, OR 503-706-4444 RALEIGH, NC 919-94-5727 ROCHESTER, NY 716-241-0550 ST. LOUIS, MO 314-423-9970 SALT LAKE CITY, UT 801-793-0302 SEATTLE, WA 206-972-3400 TULSA, OK 918-664-6563 UNION CITY, CA 909-489-7430

- 1. DIEBOLD WILL INSTALL, AND ADJUST ALL DIEBOLD FURNISHED EQUIPMENT UNLESS OTHERWISE SPECIFIED.
2. PER DIEBOLD SPECIFICATIONS AND THE NATIONAL ELECTRICAL CODE, PURCHASER MUST MAKE ALL WALL AND LINING PENETRATIONS; INSTALL ALL WIRE, CONDUIT, OUTLET BOXES, JUNCTION BOX, JUNCTION BOX COVER, 10-120 VOLT 60 HZ, ELECTRICAL POWER WITH SEPARATE INSULATED GROUND WIRE, OBTAIN ALL PERMITS AND OBTAIN ALL NECESSARY TELEPHONE LINES FOR REMOTE CONNECTIONS AND REMOVE AND/OR RELOCATE ANY FIXTURES OR OBSTACLES TO PERMIT INSTALLATION OF DIEBOLD EQUIPMENT IN THE EVENT OF A CONFLICT BETWEEN DIEBOLD SPECIFICATIONS AND LOCAL OR STATE LAWS OR THE NATIONAL ELECTRICAL CODE, THE LOCAL OR STATE LAWS OR THE NATIONAL ELECTRICAL CODE SHALL GOVERN.
3. ALL LOW VOLTAGE WIRE SPECIFIED, FURNISHED BY OTHERS.
4. ONLY WIRE MEETING THE SPECIFICATIONS SET FORTH IN THE DIEBOLD ELECTRONIC SECURITY AND SURVEILLANCE CABLE SCHEDULE (FILE NO. 170-100) MAY BE USED.
5. ALL CONDUIT RUNS SHALL HAVE SWEEPING BENDS AND ANY RUNS THAT MAY FORM A WATER TRAP MUST BE PROVIDED WITH DRAINAGE HOLES.
6. ALL CONDUIT ENTERING A VAULT WILL BE RESTRICTED TO 1-1/4" MAXIMUM AND SHALL HAVE TWO (2) 90 DEGREE BENDS WITHIN THE VAULT WALL STRUCTURE, ARRANGEMENT OF BENDS SHALL BE SO THAT DRAINAGE IS TO THE EXTERIOR OF THE VAULT.
7. IN PENETRATING EXISTING VAULTS, THE MAXIMUM HOLE SIZE IS 1-1/2"; HOWEVER, MULTIPLE HOLES ARE PERMITTED IF REQUIRED.
8. EXISTING ALARM AND CAMERA WIRING MUST BE REPLACED IF ANY OF THE FOLLOWING CONDITIONS EXIST:
A. THE EXISTING WIRING IS NOT SHIELDED
B. THE EXISTING WIRING DOES NOT HAVE THERMAL/PLASTIC INSULATION
C. THE EXISTING WIRING DOES NOT HAVE SUFFICIENT CONDUCTORS
D. THE EXISTING WIRING SIZE DOES NOT MEET DIEBOLD SPECIFICATIONS
E. THE EXISTING CAMERA AND HOLD-UP DEVICE WIRING ARE RUN IN THE SAME SHIELDED CABLE BUNDLE
* AN EXCEPTION TO THIS RULE MAY BE MADE PROVIDING THE EXISTING WIRING IS IN PROPERLY GROUNDED METALLIC CONDUIT, THERE IS NO UNSHIELDED CAMERA WIRING IN THE SAME CONDUIT WITH ALARM WIRING AND THE WIRING MEETS ALL OF THE OTHER STANDARDS LISTED ABOVE, SHOULD REWIRING BE REQUIRED AT A LATER DATE TO PREVENT FALSE ALARMS WHICH ARE CAUSED BY DEFECTIVE WIRING OR RADIO FREQUENCY INTERFERENCE, SUCH REWIRING WILL BE THE RESPONSIBILITY OF THE PURCHASER.
9. ALARM AND CAMERA WIRING CANNOT BE RUN IN THE SAME CONDUIT WITH 120 VOLT AND ABOVE POWER WIRING, LOW VOLTAGE WIRING OF 30 VOLTS AND ABOVE OR TELEPHONE LINES.
10. ALL WIRING SHALL BE TAGGED BY THE ELECTRICAL CONTRACTOR AT ALL JUNCTION POINTS AND SHALL TEST FREE FROM BREAKS, GROUNDS, SHORTS AND/OR CROSSES BETWEEN CONDUCTORS, DO NOT LABEL CONDUITS.
11. WIRING AS SHOWN ON FLOOR PLANS AND RISER DIAGRAMS IS A SUGGESTED METHOD ONLY (EXCEPT WHERE SPECIFIED), ACTUAL ROUTING OF CONDUIT AND CONDUCTORS SHALL BE DETERMINED BY ELECTRICAL CONTRACTOR ON JOB SITE TO SUIT LOCAL CONDITIONS.
12. EQUIPMENT AND DEVICE LOCATIONS SHOWN ON FLOOR PLANS ARE APPROXIMATE, EXACT LOCATIONS SHALL BE DETERMINED ON JOB SITE BY CUSTOMERS AND/OR ARCHITECT TO SUIT LOCAL CONDITIONS USING DIEBOLD STANDARDS AND DETAILS FOR REFERENCE.
13. WHEN BUILDING HAS EMERGENCY AND/OR STANDBY POWER SYSTEM, ALL BUILDING POWER REQUIRED FOR DIEBOLD EQUIPMENT SHALL BE CONNECTED TO THAT SYSTEM.
14. WHEN WIRING IS RUN IN HOLLOW SPACES SUCH AS OVER-HUNG CEILING, SUCH HOLLOW SPACES ARE USED FOR ENVIRONMENTAL AIR-HANDLING PURPOSES, THE WIRING MUST EITHER BE LISTED FOR SUCH PURPOSES OR BE INSTALLED IN ELECTRICAL METALLIC TUBING, FLEXIBLE METALLIC TUBING, INTERMEDIATE METAL CONDUIT, RIGID METAL CONDUIT, METAL SURFACE RACEWAY OR WIREWAY WITH METAL COVERS WHERE ACCESSIBLE, OR FLEXIBLE METAL CONDUIT (SEE SECTION 300-22 (C) NATIONAL ELECTRICAL CODE).
15. MINIMUM OF 2" O.D. WIRE STUB-OUT AT ALL JUNCTION BOXES DESIGNATED FOR CONNECTION OF DEVICES, CABINETS, OR FOR SPLICING, UNLESS OTHERWISE SPECIFIED.

SURVEILLANCE INSTALLATION NOTES

ELECTRICAL CONTRACTOR SHALL BOTH FURNISH AND INSTALL THE FOLLOWING:

- 1. CONDUIT, IF REQUIRED BY N.E.C. IF WIREMOLD IS USED, CONTRACTOR THAT NEED NEC SPECIFICATIONS.
2. ONE 6 X 6 X 4 (MIN. SIZE) PULL BOX AT VIDEO LOCATION FOR COLLECTION OF COAX CABLES.
3. ONE 2-GANG FLUSH MOUNTED OUTLET BOX BEHIND EACH CAMERA AT 8'-6" (RECOMMENDED HEIGHT) ABOVE FINISHED FLOOR, COVERPLATE WITH BUSHED OPENING FOR THIS BOX.
4. ELECTRICAL POWER FROM A LOCKED ON CIRCUIT BREAKER (120VAC, 20AMP). ALL EQUIPMENT AND CAMERAS MUST BE ON SAME POWER PHASE.
5. A STANDARD UNSWITCHED DUPLEX RECEPTACLE FOR VIDEO RECORDER MUST HAVE LIVE POWER CONTINUOUSLY.
6. ENOUGH RECEPTACLES MUST BE PROVIDED TO SUPPLY POWER TO THE MONITOR, SWITCHER, STEPDOWN TRANSFORMERS AND ONE SPARE. ALL RECEPTACLES MUST BE ON THE SAME POWER PHASE. RECEPTACLE REQUIREMENTS MAY BE REDUCED BY USING A 24VAC POWER DISTRIBUTION MODULE (60 WATTS MAX, 2.5 AMPS) NOTE: HAS TWO SETS OF TERMINAL BLOCKS FOR MULTIPLE CAMERA CONNECTIONS.
7. SYSTEM POWER SWITCH TO ENABLE CUSTOMER TO POWER DOWN THE ENTIRE/PARTIAL SYSTEM WHEN SURVEILLANCE IS NOT REQUIRED.
8. ELECTRICAL CONTRACTOR OR OTHER CUSTOMER REPRESENTATIVE SHALL VERIFY LOCATION OF EACH CAMERA.
9. ALL WIRING INCLUDING POWER, LOW VOLTAGE CONTROL AND VIDEO AS SPECIFIED: MAXIMUM DISTANCE BETWEEN CAMERA AND POWER IS 350' WITH 22AWG. MAXIMUM DISTANCE BETWEEN CAMERA AND POWER IS 750' WITH 18AWG. ALL CABLE RUNS BETWEEN CAMERA AND RECORDER MUST BE 'HOME RUN', WHERE A RUN, LONGER THAN 1000' IS NEEDED, VIDEO AMPLIFIERS ARE REQUIRED.

ELECTRICAL CONTRACTOR SHALL INSTALL THE FOLLOWING ITEMS FURNISHED BY DIEBOLD:

- 1. CAMERA MOUNTING BRACKETS
2. MOUNTING AND CONNECTING ALL CAMERAS TO CABLE AND CONNECTION OF CABLES TO SYSTEM
DIEBOLD WILL BE RESPONSIBLE FOR THE FOLLOWING:
1. TESTING AND ADJUSTMENT OF CAMERAS AND ENTIRE SYSTEM AS REQUIRED.

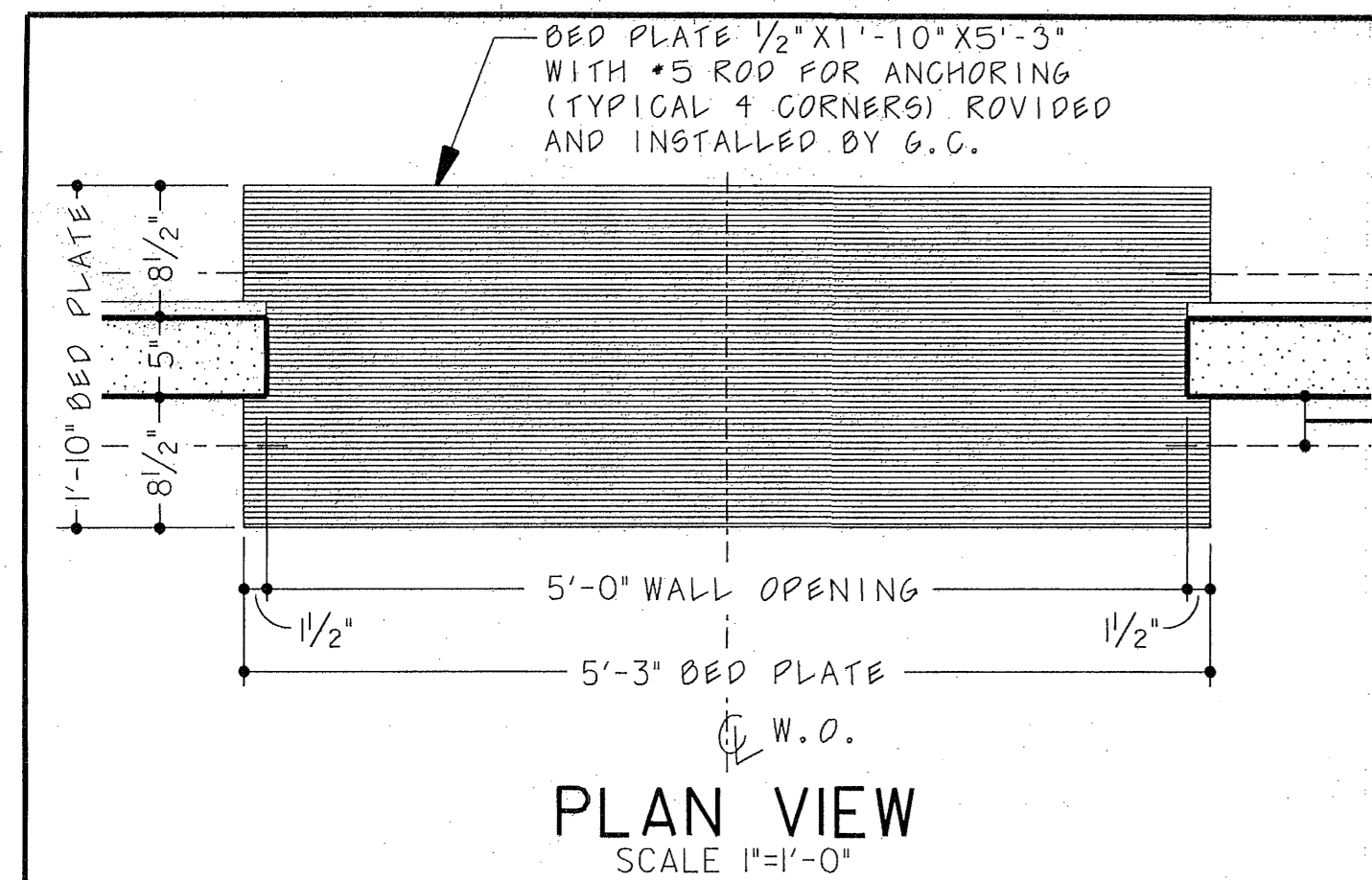
SECURITY DETAILS/SPECIFICATIONS

SYMBOL DESCRIPTION M=MOUNT M=P=PEDESTAL M=MULLION F=TURNSTILE D=DESK S=STAIRCASE W=WALL E=FLUSH C=CELLING R=RACK H=HIDDEN

Table with columns: DEVICE, SPECIFICATIONS, OUTLET BOX REQUIREMENTS, INSTALLATION. Lists various security devices like Control Panel, Keypad Switch, Automatic Monitoring Switch, Video Camera, etc., with their specific requirements and installation instructions.

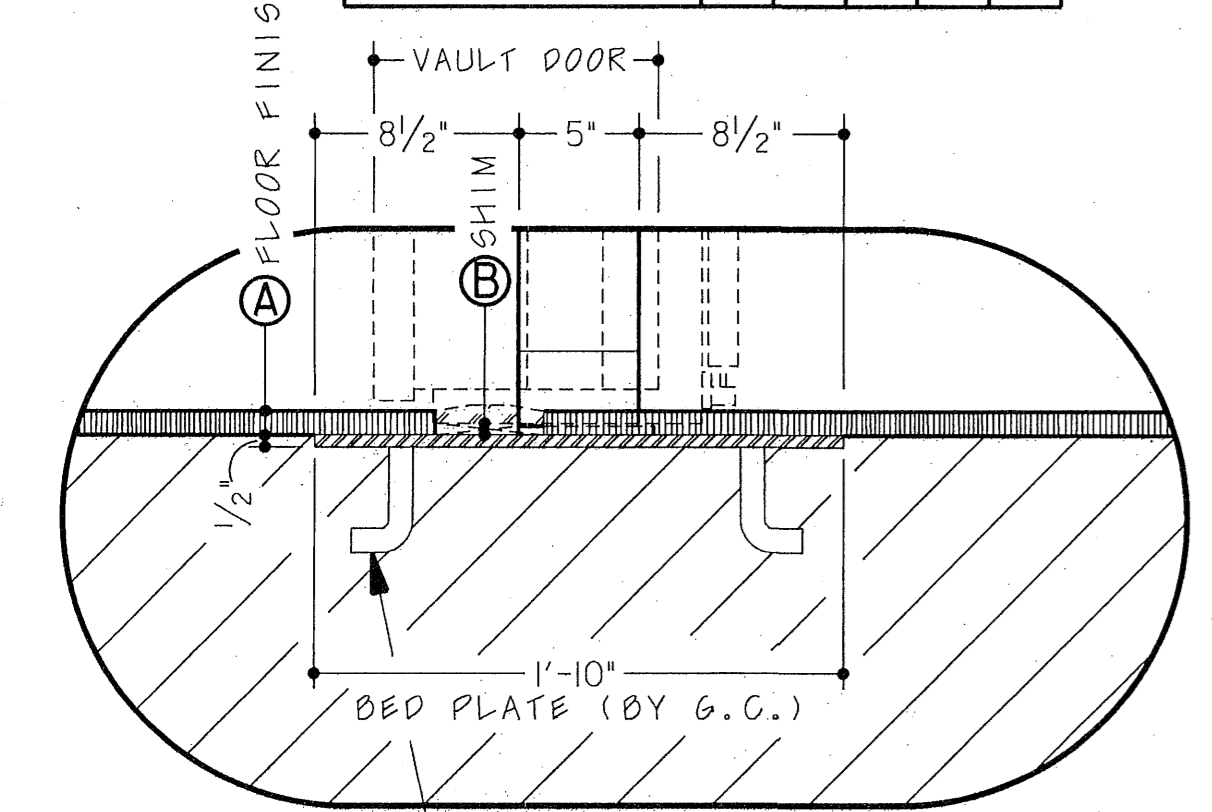


ACS Drawing Border 5/28

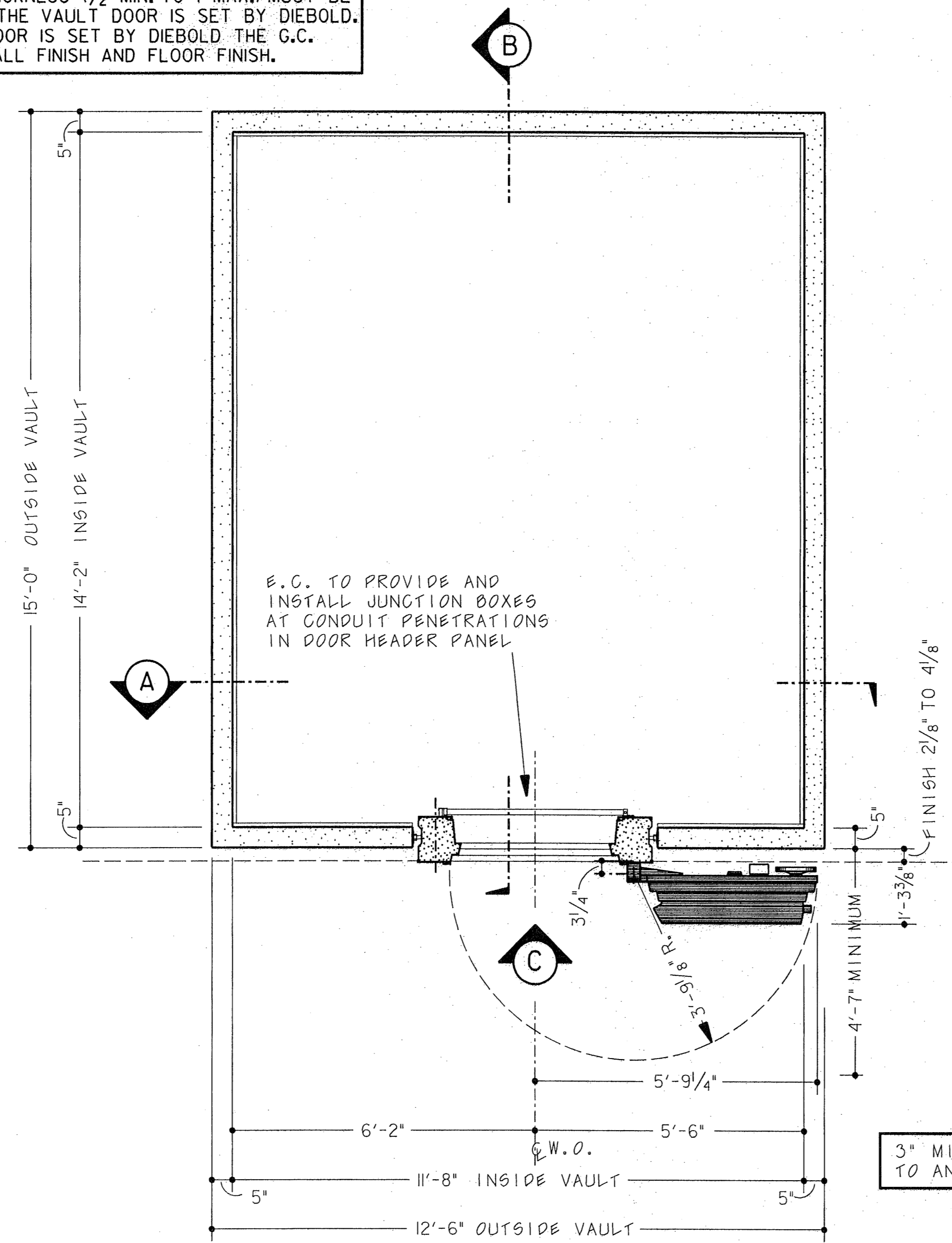
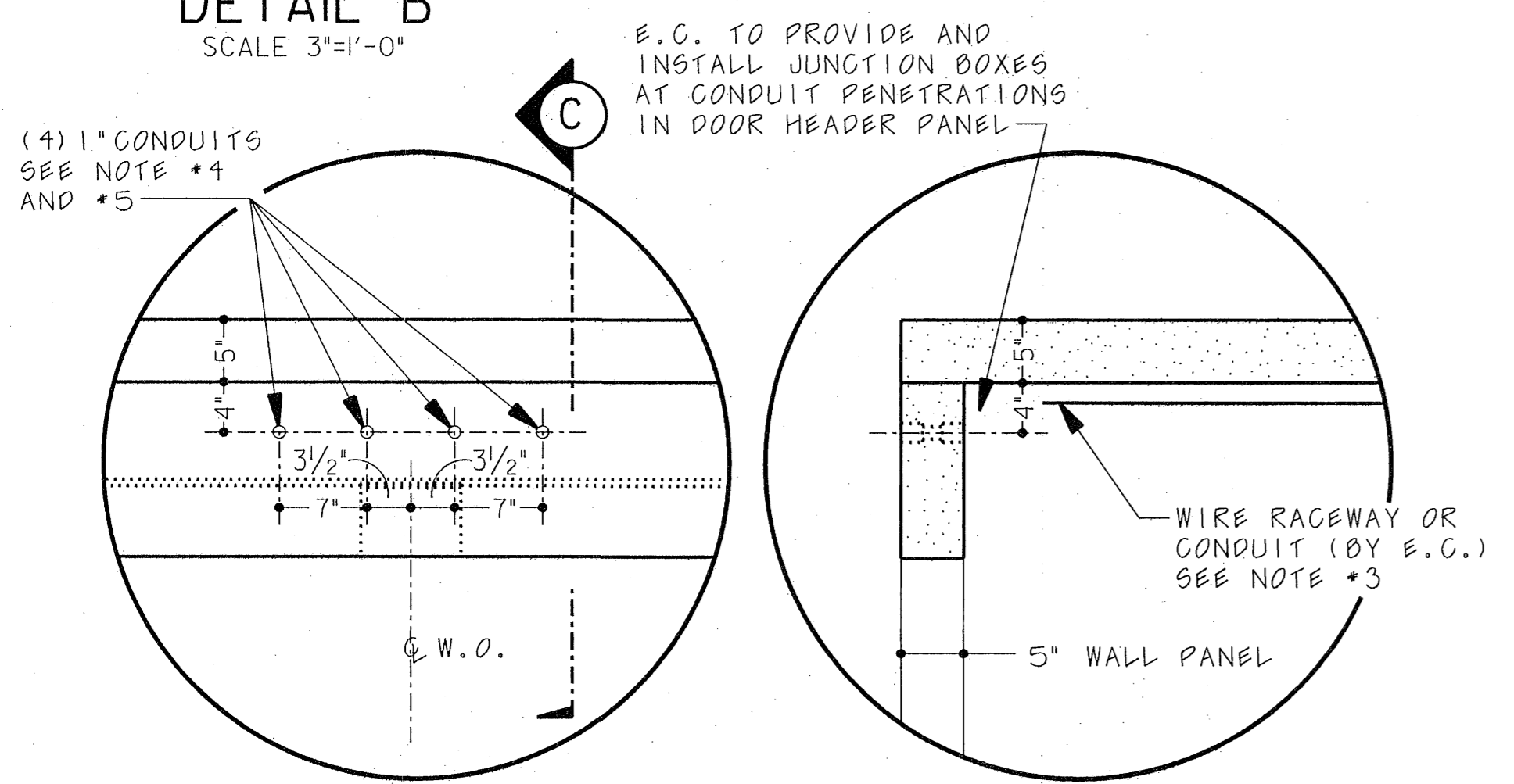
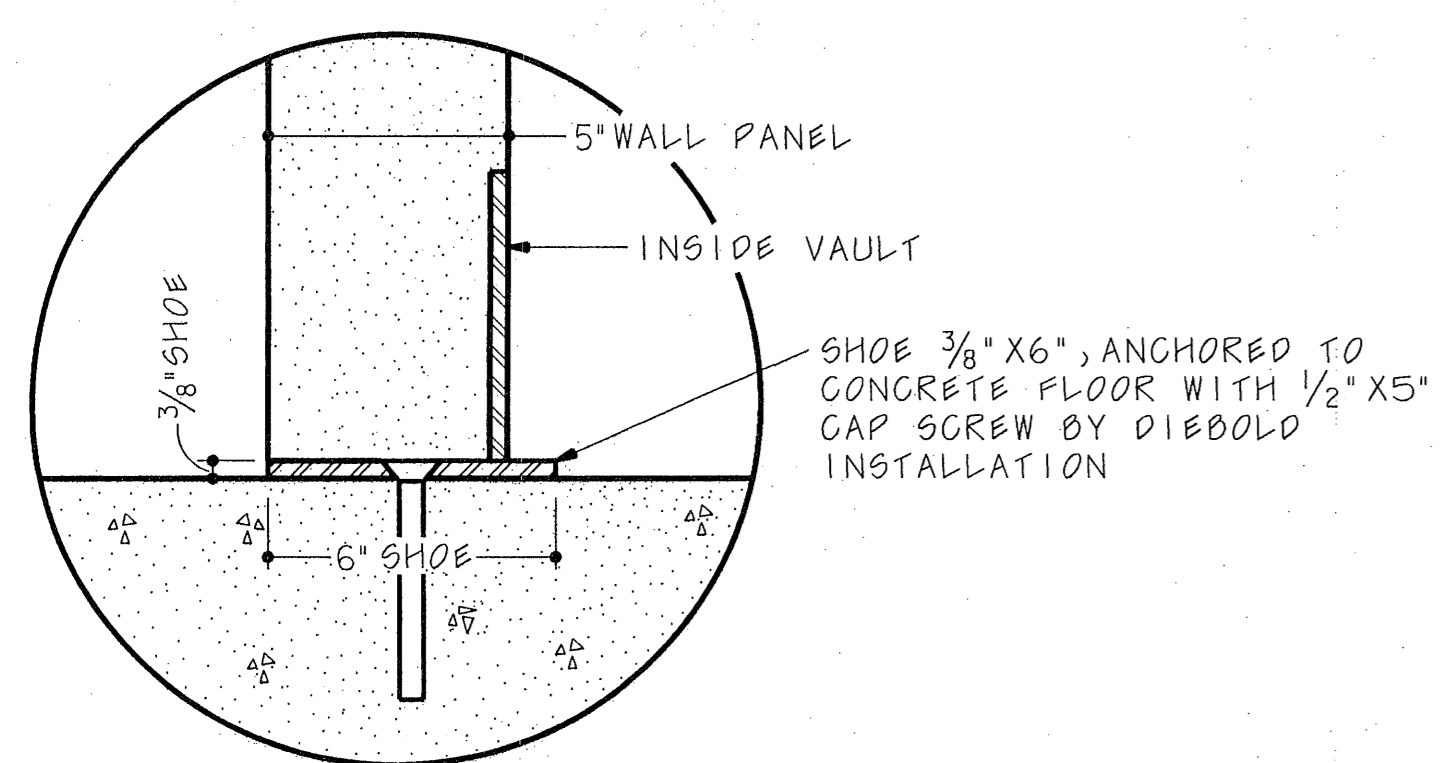


THICKNESS OF FINISH (2 1/8" MIN. TO 4 1/8" MAX.) ON EXTERIOR WALL OF VAULT AROUND THE AMERICAN VAULT DOOR AND THE FLOOR FINISH THICKNESS (1/2" MIN. TO 1" MAX.) MUST BE DETERMINED BEFORE THE VAULT DOOR IS SET BY DIEBOLD. AFTER THE VAULT DOOR IS SET BY DIEBOLD THE G.C. SHALL APPLY THE WALL FINISH AND FLOOR FINISH.

(A) FLOOR FINISH THICKNESS	1/2"	5/8"	3/4"	7/8"	1"
(B) SHIM THICKNESS	0"	1/8"	1/4"	3/8"	1/2"

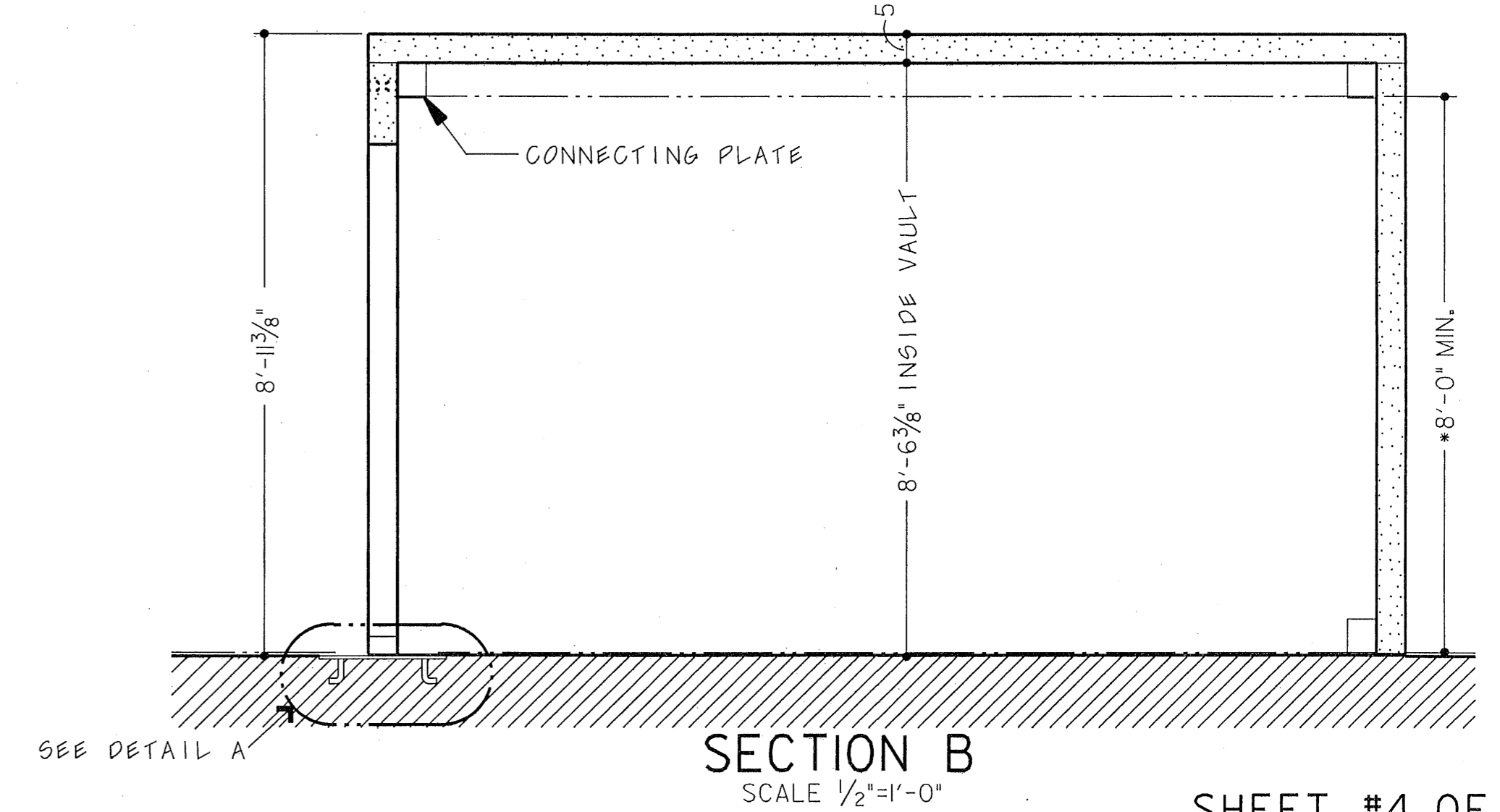
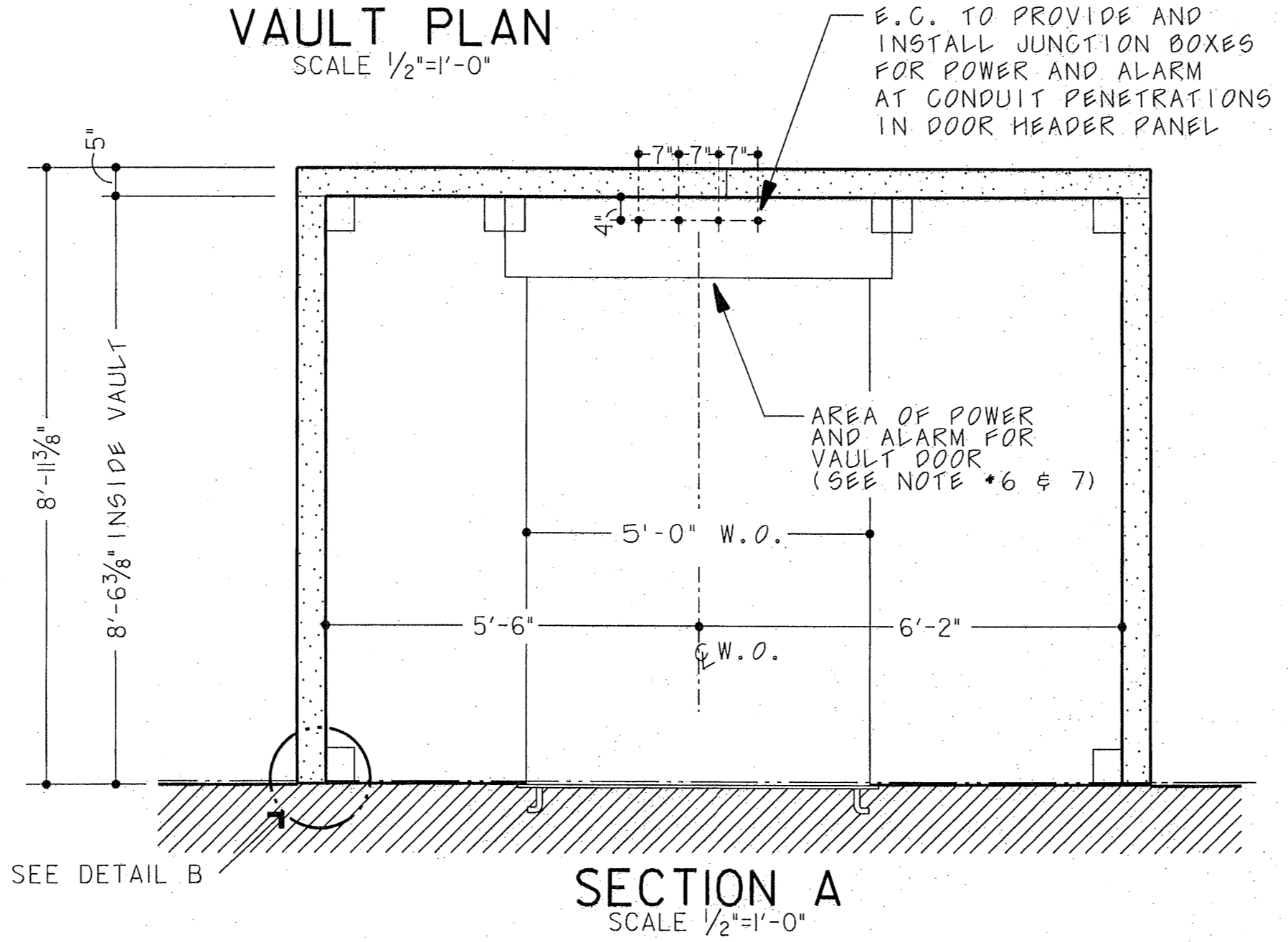


1'-10" BED PLATE 1/2" X 1'-10" X 5'-3" WITH #5 ROD FOR ANCHORING (TYPICAL 4 CORNERS) ROVIDED AND INSTALLED BY G.C.



3" MINIMUM CLEARANCE FROM VAULT WALLS TO ANY STRUCTURE DURING SETTING OF VAULT

* "DROPPED CEILING" ALLOWS FOR CONCEALING CONDUIT, WIRE RACEWAY, LIGHT FIXTURES, ETC. THIS ALSO PROVIDES SPACE FOR STACKING OF (4) LM300 S.D. SECTIONS W/ OPTIONAL PULL SHELVES, FILLERS AND 3" OR 4" BASE



MODULAR VAULT GENERAL NOTES:
DIEBOLD MODULAR VAULTS ARE DESIGNED FOR SECURITY STORAGE OF VALUABLES LOCATED WITHIN THE VAULT. INDIVIDUAL WALL PANELS CARRY A U.L. CLASS 1-30 MINUTE RATING AND ARE NOT DESIGNED OR INTENDED TO BE USED AS STRUCTURAL SUPPORT IN A BUILDING.
NO LIVE LOADS OF ANY KIND ARE PERMITTED ON ANY VAULT CEILING.
MODULAR VAULT SYSTEM:
MODULAR 5" THICK PANELS (WELDED CONNECTIONS) FORM THE FRONT, BACK, SIDE WALLS, AND CEILING. THE FRONT WALL HAS AN OPENING FOR A VAULT DOOR. THE MODULAR VAULT DOES NOT INCLUDE VAULT DOOR WITH EMERGENCY VAULT VENTILATOR, ALARM EQUIPMENT, S.D. BOXES, PARTITIONS, ETC. ALL EXTRAS SHOULD BE ORDERED SEPARATELY.

ACCESS TO VAULT AREA:
G.C. SHALL PROVIDE CLEAR ACCESS TO THE VAULT AREA TO ALLOW DIEBOLD INSTALLATION TO MOVE VAULT PANELS TO THE VAULT LOCATION.

FLOOR PREPARATION:
DIEBOLD IS NOT RESPONSIBLE FOR STRUCTURAL DESIGN OF THE BUILDING FLOOR BELOW THE MODULAR VAULT. DIEBOLD RECOMMENDS THE PURCHASER HIRE A LICENSED STRUCTURAL ENGINEER/ARCHITECT FOR EXACT FLOOR SPECIFICATIONS AND CONSTRUCTION METHODS IN THE AREA SUPPORTING DIEBOLD MODULAR VAULT.

THE GENERAL CONTRACTOR (G.C.) SHALL PROVIDE A FLOOR TO SUPPORT 47,300 LBS. MODULAR VAULT AND VAULT DOOR. IF VAULT IS USED FOR STORAGE OF S.D. BOXES ALLOW 500 LBS. PER SQ. FT. (LIVE LOAD).

FLOOR SHOULD PROVIDE THE SAME SECURITY AS DIEBOLD VAULT PANELS (CLASS 1) AND COMPLY WITH THE ASTM DESIGNATION F 1090-87 (2" REINFORCED CONCRETE); 3 ROWS RE-BAR GRID, 4" ON CENTER OR 2 ROWS EXPANDED WIRE MESH - 150 5R)

G.C. SHALL ALSO LOCATE, PROVIDE AND INSTALL BED PLATE (1/2" X 2'-3" X 5'-8") FLUSH WITH TOP OF ROUGH FLOOR AT EACH VAULT DOOR (SEE PLAN AND DETAIL A).

SHOE INSTALLATION:
DIEBOLD TO ATTACH THE SHOE (3/8" X 6") TO FLOOR. (SEE DETAIL B) G.C. TO PROVIDE OUTLINE OF VAULT PERIMETER FOR DIEBOLD INSTALLATION TO LOCATE SHOE.

VAULT INSTALLATION:
ALL VAULT PANELS ARE SHIPPED KNOCK-DOWN. DIEBOLD WILL ERECT VAULT PANELS AT JOB SITE ON SHOE.

CONDUIT AND ELECTRICAL:
GENERAL NOTE:
THE ELECTRICAL CONTRACTOR (E.C.) MUST FURNISH AND INSTALL ALL CONDUIT AND JUNCTION BOXES, PROVIDE AND PULL ALL POWER WIRES AND MAKE ALL ELECTRICAL POWER CONNECTIONS. E.C. TO PROVIDE AND PULL ALL ALARM WIRES, TAG AND CONTINUITY TEST UNLESS PART OF DIEBOLD CONTRACT.

1. SUPPLIED WITH THE MODULAR VAULT ARE (4) 1" CONDUITS (SEE NOTE #4 AND #5) FORMED IN THE DOOR HEADER PANEL. THE E.C. SHALL CONNECT THE (4) CONDUITS TO THE JUNCTION BOXES PROVIDED AND INSTALLED BY E.C.
2. CONDUIT FOR EXTERIOR CONNECTIONS TO ELECTRICAL SUPPLY, ALARM AND TELEPHONE BY E.C.
3. WIRE RACEWAY OR CONDUIT FOR INTERIOR CONNECTIONS OF ELECTRICAL SUPPLY, ALARM AND TELEPHONE BY E.C. (SEE SECTION C AND ELEVATION C)
4. (4) 1" CONDUIT FOR ELECTRICAL REQUIREMENTS WITHIN VAULT, INCLUDING VAULT DOOR EMERGENCY VAULT VENTILATOR, ALARM CONTROL CABINET, LIGHT FIXTURES AND ANY OTHER ELECTRICAL REQUIREMENTS. VAULT DOOR EMERGENCY VAULT VENTILATOR AND ALARM CONTROL CABINET REQUIRE SEPARATE 120 VAC, 60 HZ, 20 AMP BRANCH CIRCUITS (UNSWITCHED) WITH GREEN WIRE GROUND. (SEE ELEVATION C)
5. (3) 1" CONDUITS FOR LOW VOLTAGE ALARM AND COMMUNICATION CABLES. (SEE ELEVATION C)
6. FLEX CONDUIT (PART OF VAULT DOOR) FOR ALARM, CONNECTED TO JUNCTION BOX PROVIDED BY E.C. LOCATED ABOVE VAULT DOOR.
7. FLEX CONDUIT (PART OF VAULT DOOR) REQUIRES 120 VAC, 60 HZ, 20 AMP BRANCH CIRCUIT (UNSWITCHED) WITH GREEN WIRE GROUND, CONNECT TO JUNCTION BOX PROVIDED BY E.C. LOCATED ABOVE VAULT DOOR.

FINISHING:
IT IS "MANDATORY" THAT THE OWNERS GENERAL CONTRACTOR (G.C.) GROUT IN THE SPACE BETWEEN THE VESTIBULE AND VAULT PANELS AFTER VAULT DOOR IS INSTALLED BY DIEBOLD. GROUT TO CONSIST OF CLEAN SAND AND CEMENT USING FORMULATION TO PROVIDE AT LEAST 3,000 P.S.I. (EQUIVALENT TO 6 BAG MIX).
CAUTION: GROUTING USING MECHANICAL OR HYDRAULIC METHODS MAY RESULT IN DAMAGE TO VAULT DOOR.
THE INTERIOR SEAMS AND CONNECTING PLATES TO BE CAULKED AND COVERED BY APPLICATION OF WALL COVERING, FLOOR COVERING, OR CEILING TILE BY PURCHASER. IT IS RECOMMENDED THAT THE EXTERIOR EXPOSED SURFACES BE CAULKED AS NECESSARY AND/OR BE COVERED WITH AN APPLIED FINISHING MATERIAL BY PURCHASER.

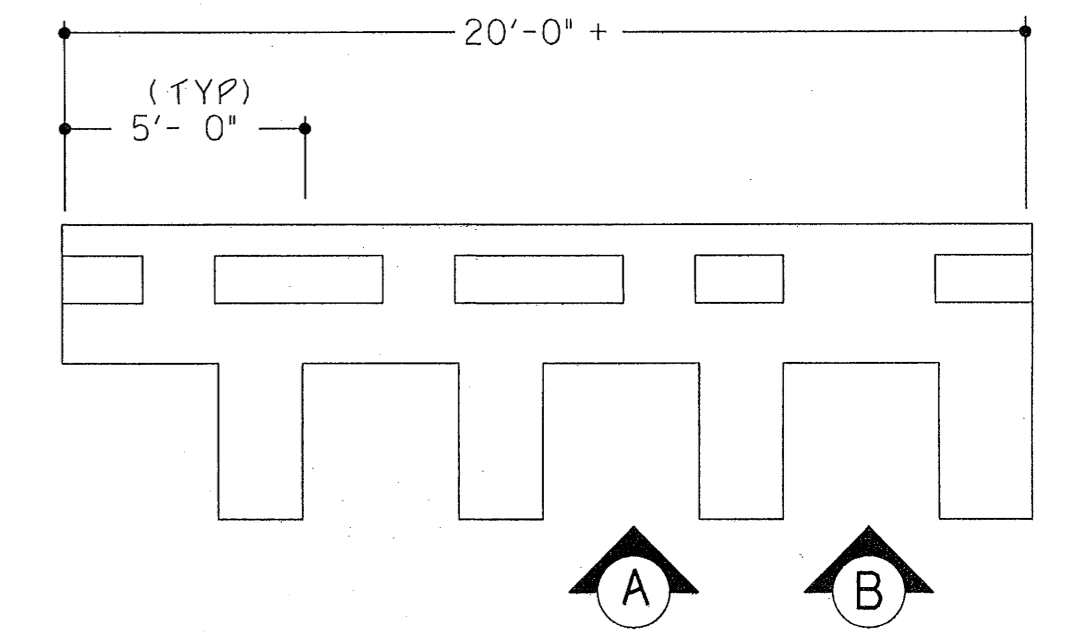
APPROXIMATE WEIGHTS:

VAULT DOOR -	4,500 LBS.
VAULT -	43,344 LBS.
TOTAL -	47,844 LBS.

* DOES NOT INCLUDE VAULT CONTENTS. ALLOW 500 LBS. PER SQ. FT. (LIVE LOAD) IF VAULT IS USED FOR STORAGE OF S.D. BOXES.

NOTES

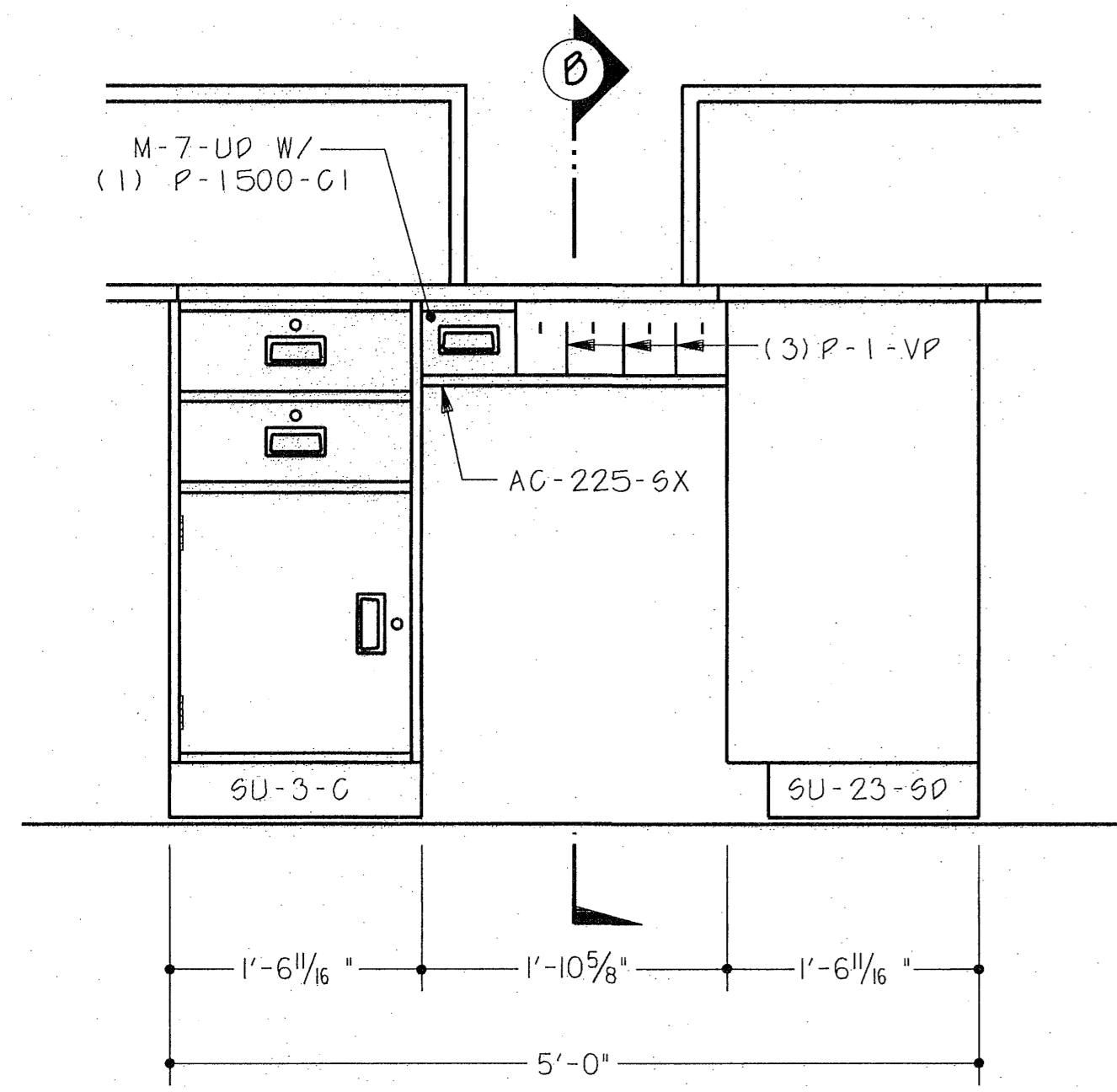
1. FINISH: PLATINUM
2. KEYING: ALL LOCKS PER TELLER STATION KEYED ALIKE. EACH STATION KEYED DIFFERENT.
3. ALL BASES 4" HIGH AND ADJUST FROM 0" TO 1/4"
4. COUNTER FRONTS, TOPS, RETURN TOPS, PARAPETS, DIVIDERS, AND COVE BASE BY OTHERS.
5. FIXTURE CONTRACTORS NOTE:
ALLOW 1/8" CLEARANCE PER STATION FOR SETTING AND ALIGNMENT OF CABINETS.



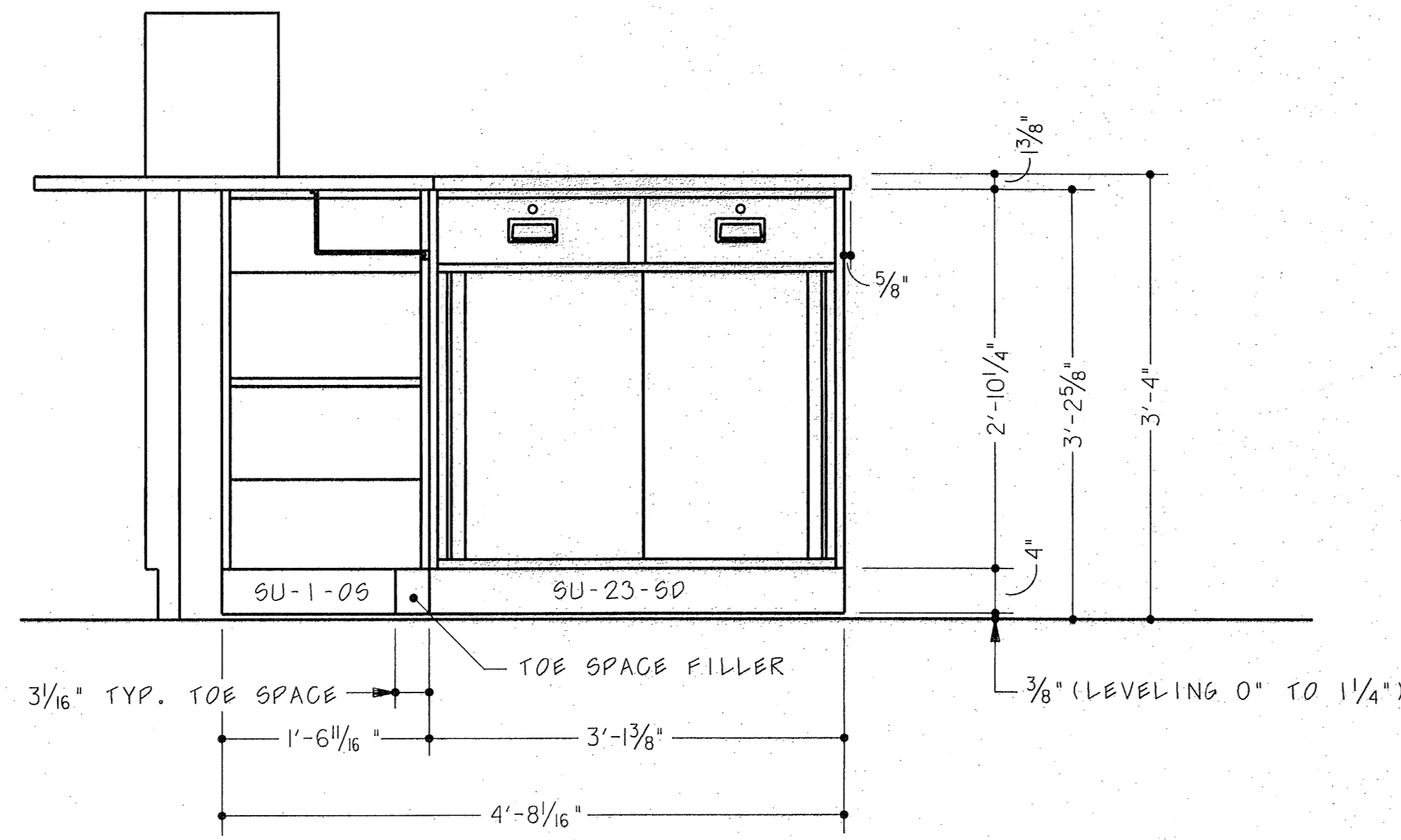
TELLERS WORK AREA

KEY PLAN

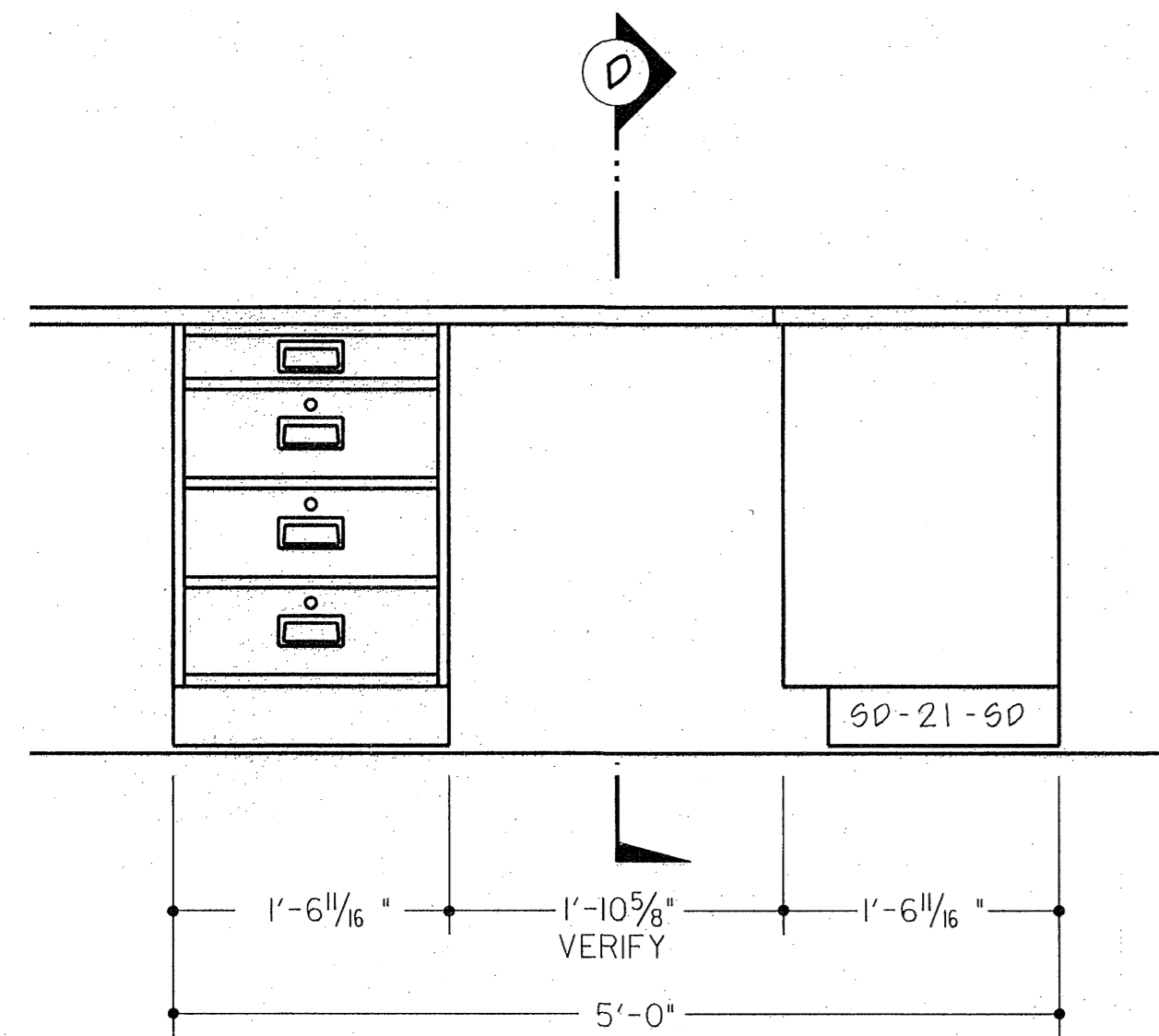
SCALE: 1/4"=1'-0"



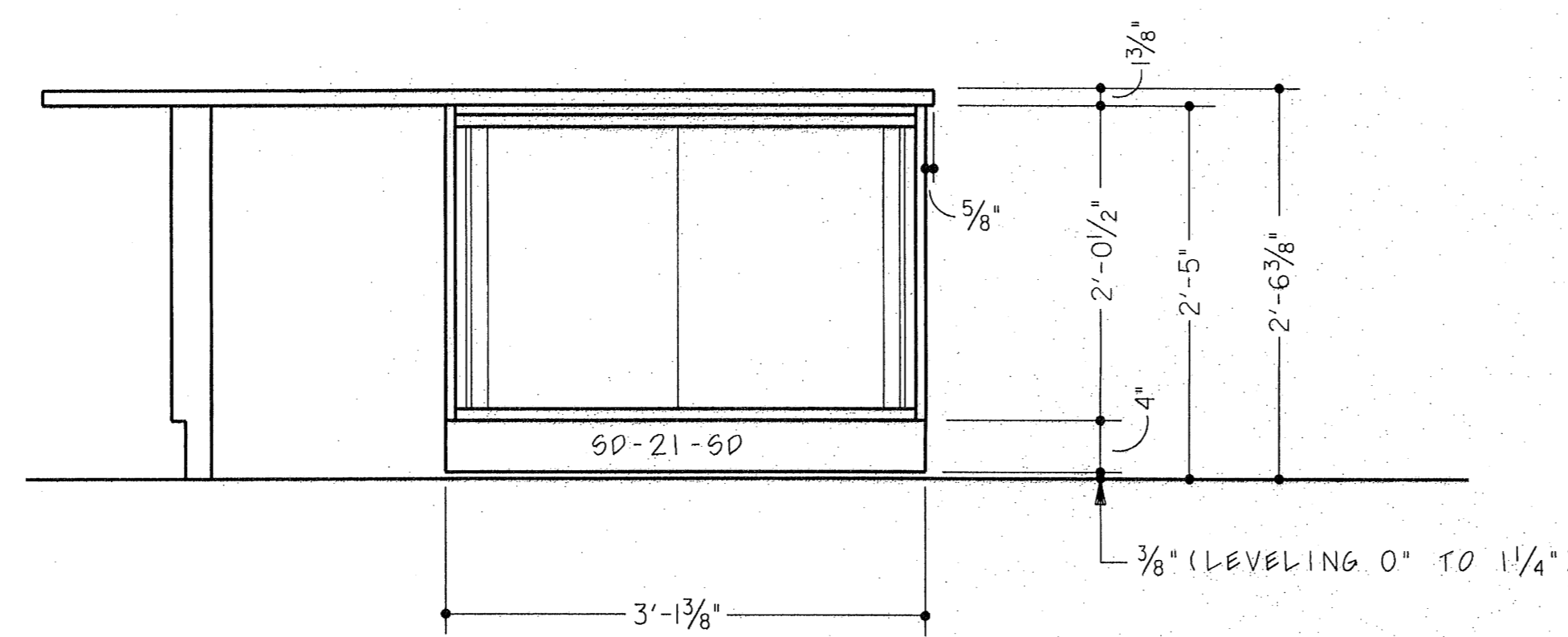
ELEVATION "A"



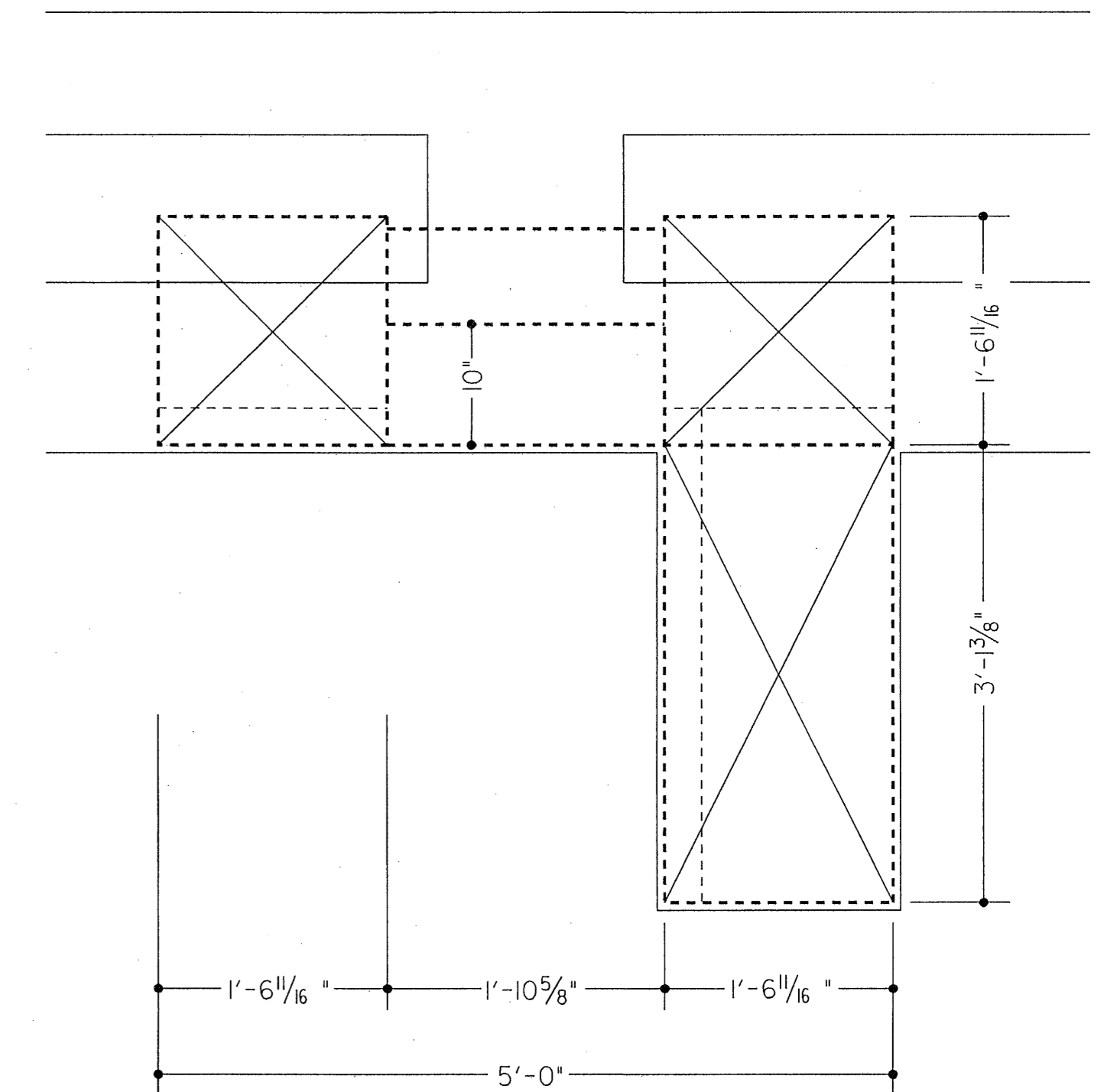
SECTION "B"



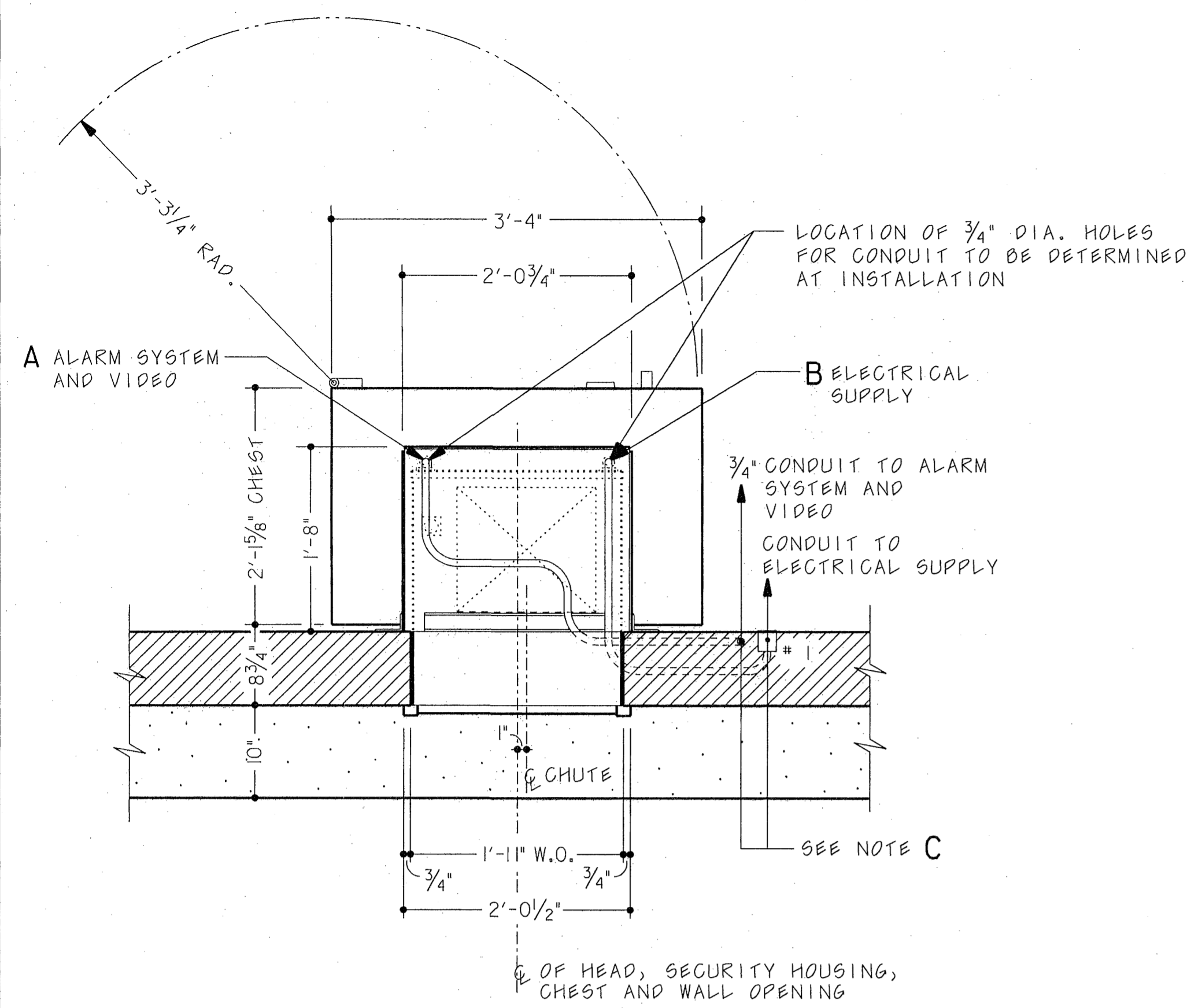
ELEVATION "C"



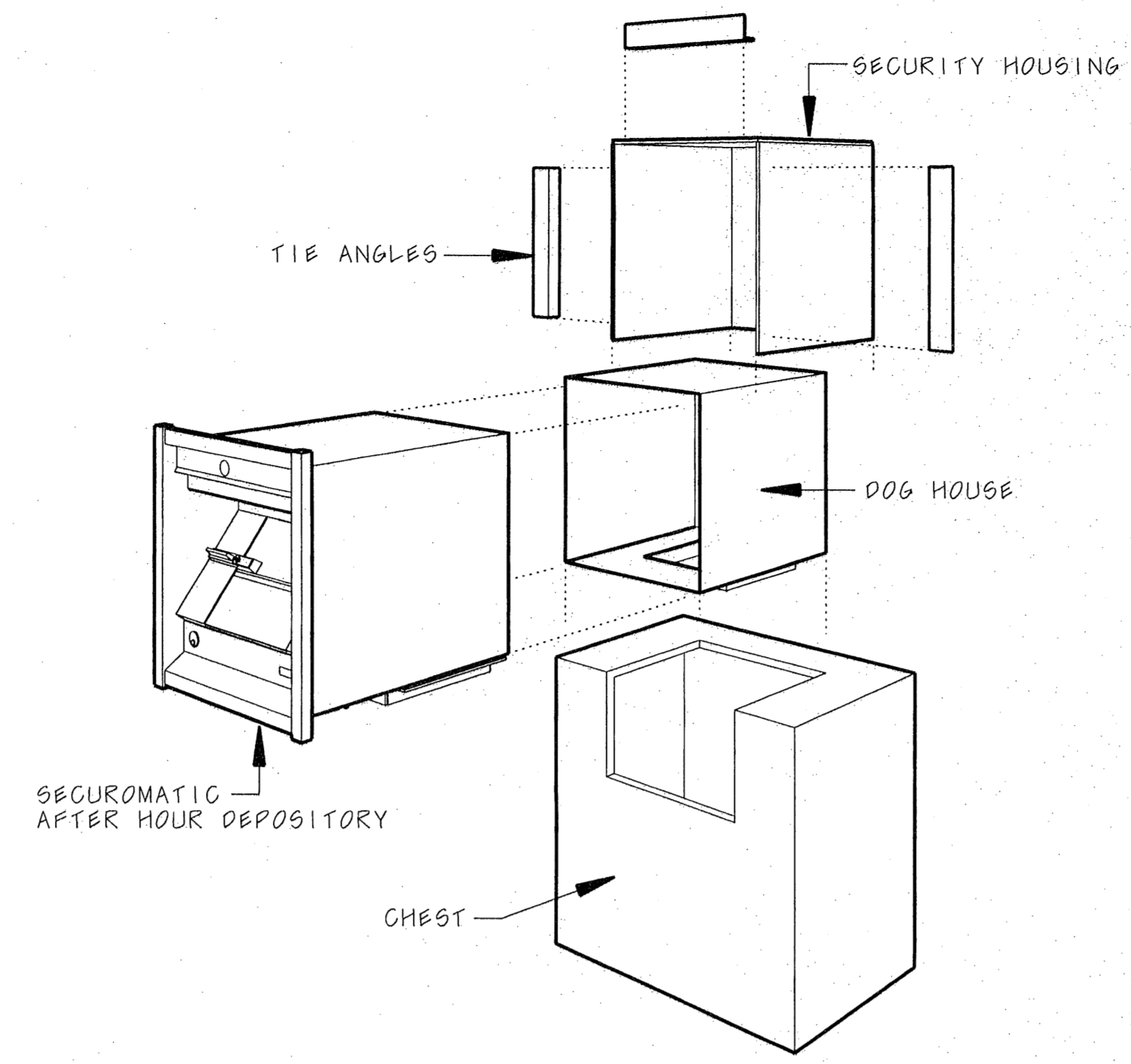
SECTION "D"



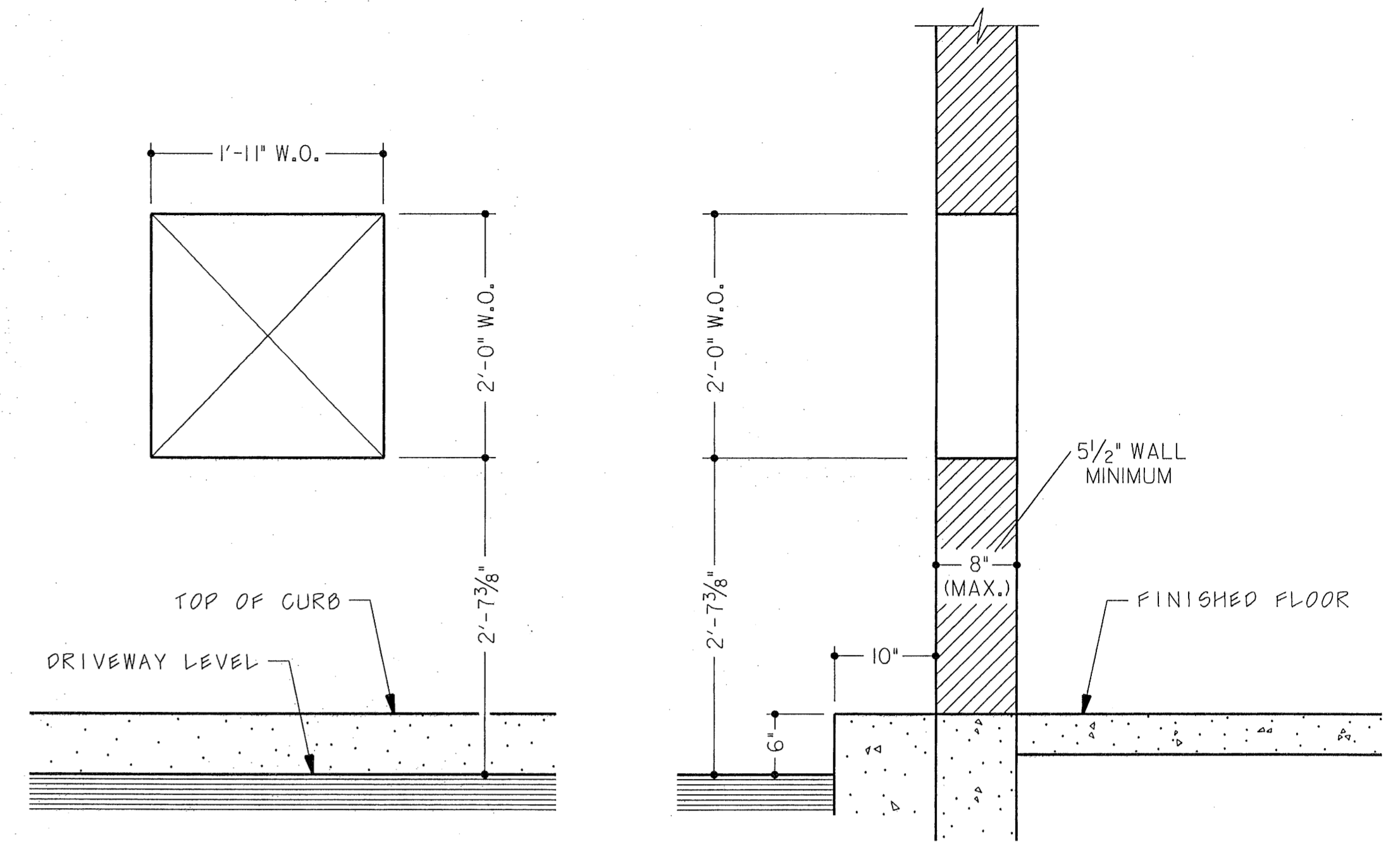
PLAN



PLAN



PERSPECTIVE



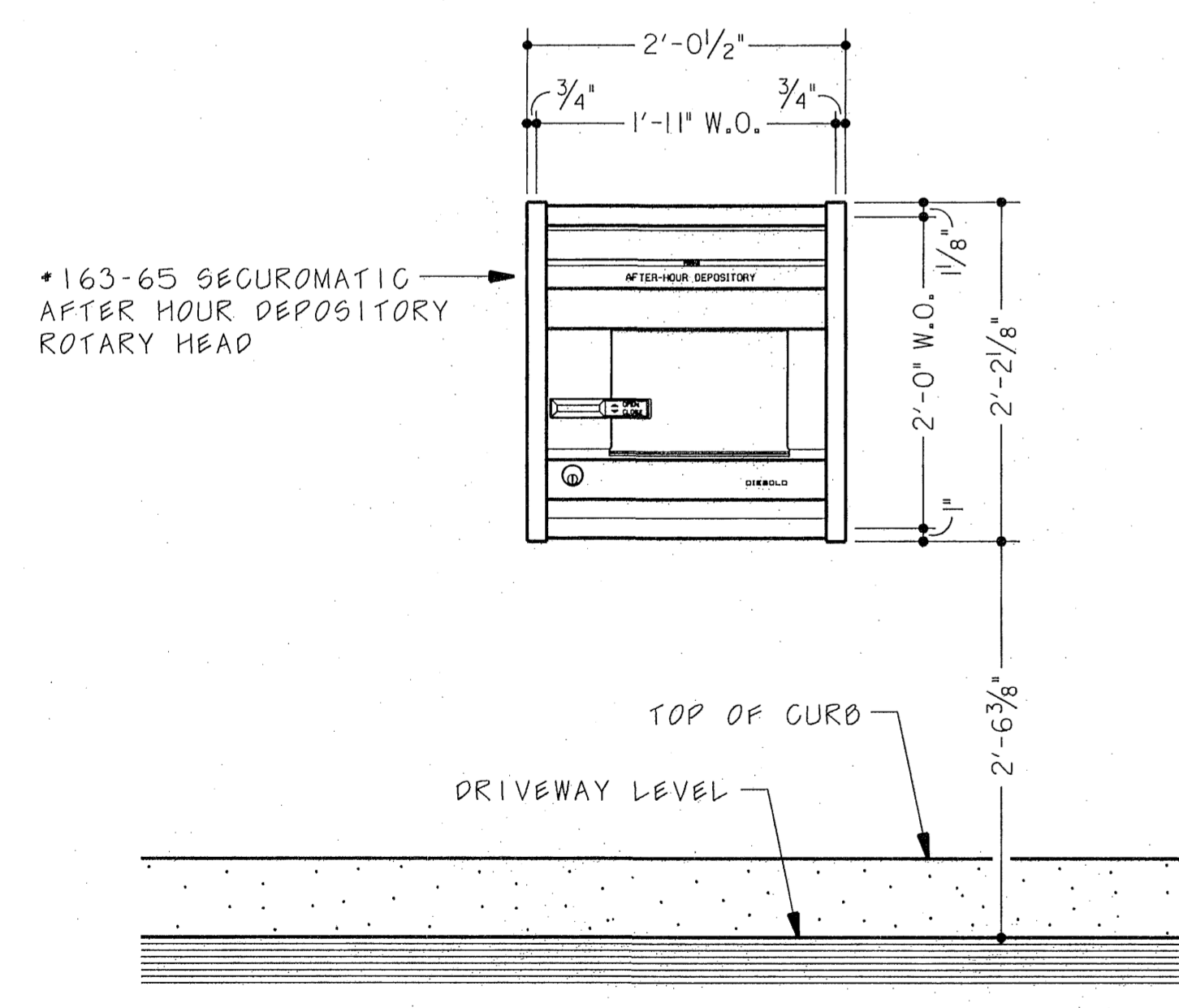
ELEVATION
SECTION
MASONRY OPENING DETAILS

GENERAL NOTES

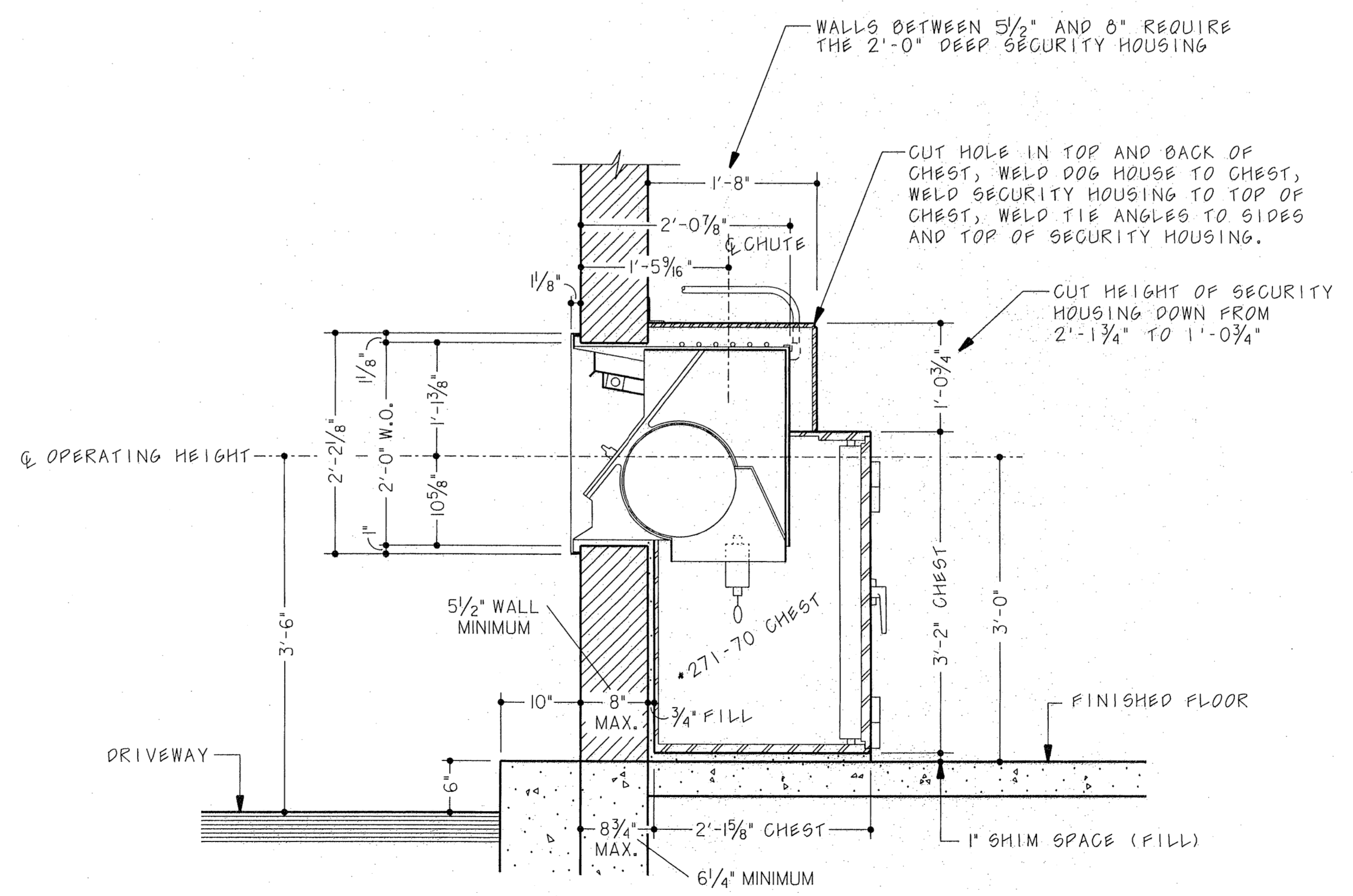
1. DIEBOLD SHALL FURNISH AND INSTALL: DEPOSITORY HEAD, SECURITY HOUSING AND RECEIVING CHEST.
2. GENERAL CONTRACTOR SHALL PROVIDE WALL OPENING AS SPECIFIED AND ANY ADDITIONAL CAULKING AND FINISHING AS REQUIRED.

ALARM AND ELECTRICAL NOTES

- A FOR ALARM CONNECTION-FURNISHED AND INSTALLED BY ELECTRICAL CONTRACTOR, EMT OR SEALTITE CONDUIT.
 RUN CABLE FROM 90° ELBOW LOCATED AT UPPER CORNER OF HOUSING TO 3/4" DIA. HOLE IN SECURITY HOUSING.
 (LOCATION OF 3/4" DIA. HOLE IN SECURITY HOUSING TO BE DETERMINED AT INSTALLATION)
 FROM 3/4" DIA. HOLE RUN CABLE IN CONDUIT TO STUB-OUT FROM ALARM CONTROL CABINET
- B FOR ELECTRICAL SUPPLY-FURNISHED AND INSTALLED BY ELECTRICAL CONTRACTOR, EMT
 RUN WIRE FROM 90° ELBOW LOCATED AT UPPER CORNER OF HOUSING TO 3/4" DIA. HOLE IN SECURITY HOUSING.
 (LOCATION OF 3/4" DIA. HOLE IN SECURITY HOUSING TO BE DETERMINED AT INSTALLATION)
 FROM 3/4" DIA. HOLE RUN WIRE IN CONDUIT TO THE ELECTRICAL POWER STUB-OUT FROM BOX #1. (DIEBOLD TO PROVIDE 15'-0" OF WIRE FOR FINAL CONNECTION).
- C FOR ALARM AND ELECTRICAL SUPPLY-ELECTRICAL CONTRACTOR TO FURNISH AND INSTALL:
 1. 1/2" CONDUIT WITH 115 V., 60 HZ., ELECTRICAL SUPPLY (4 AMP LOAD), OUTLET BOX #1 WITH PLAIN COVER AND 1/2" CONDUIT TO STUB-UP INTO AREA OF SECURITY HOUSING (EITHER SIDE OF CHEST) WITH ADAPTOR FOR FLEX CONDUIT. OUTLET BOX #1 SHOULD BE WITHIN 15'-0" OF HOUSING ELECTRICAL SUPPLY CONNECTION.
 2. 3/4" CONDUIT FROM ALARM CONTROL CABINET TO STUB-UP INTO AREA OF SECURITY HOUSING (EITHER SIDE OF CHEST) WITH ADAPTOR FOR FLEX CONDUIT.
- D FIELD WIRING INSTALLATION INSTRUCTIONS.
 1. A.H.D. CONFIGURATIONS LITHO FILE NO. 172-38
 2. FIELD WIRING FOR 163-70 SERIES 41-016260
 3. FIELD WIRING FOR 163-80 SERIES 41-016261
 4. FIELD WIRING FOR 163-90 SERIES 41-016262



EXTERIOR ELEVATION

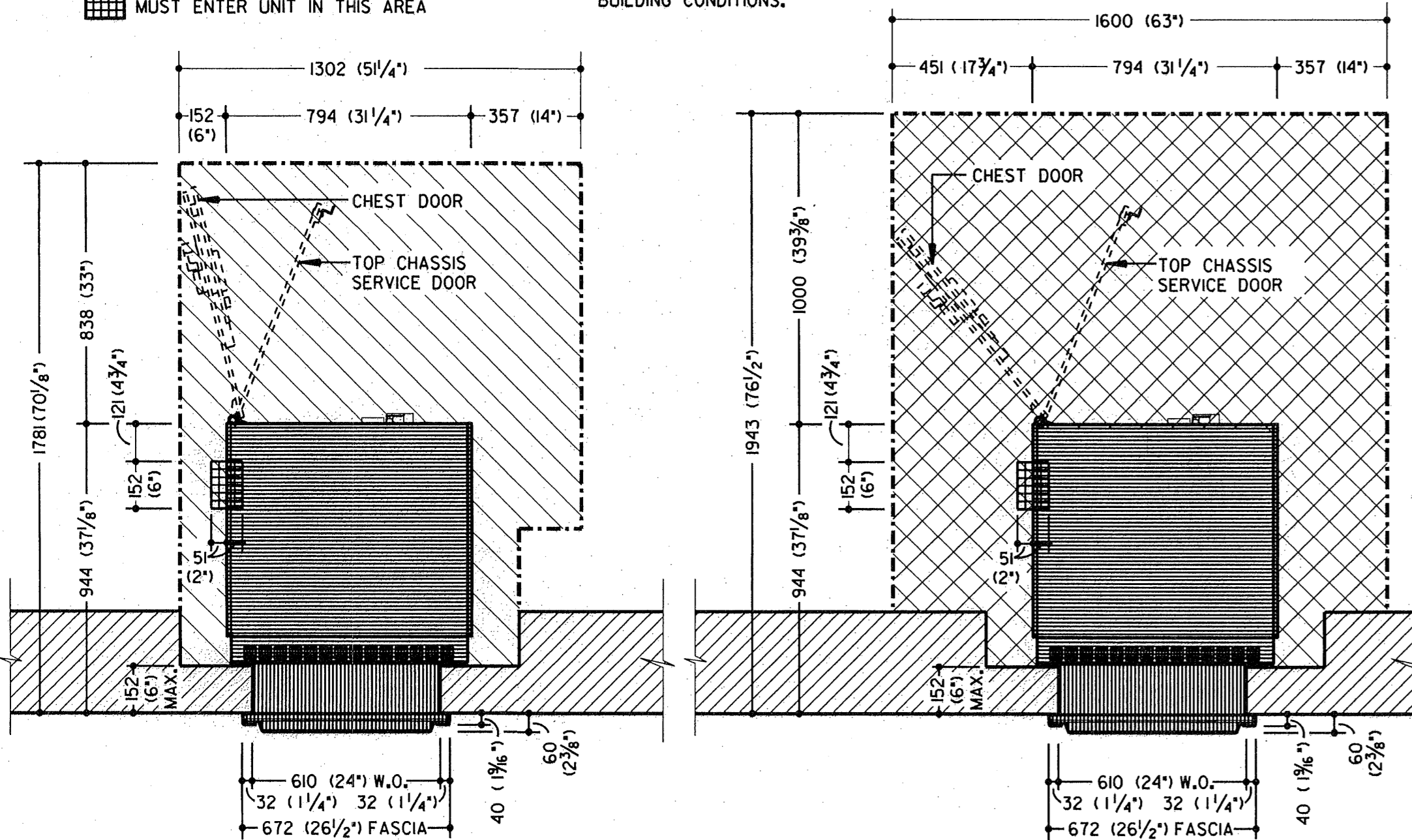


SECTION/ELEVATION

DIEBOLD INCORPORATED 818 MULBERRY RD. S.E. CANTON, OHIO 44707	© COPYRIGHT 1993, Diebold, Inc. All Rights Reserved. An Unpublished Work THIS DRAWING IS THE PROPERTY OF DIEBOLD INC.	THIRD ANGLE PROJECTION	DR. BY M.M.B. 08/27/04 REQ. BY JULIE DOUGHERTY SCALE USED AS NOTED DO NOT SCALE DRAWING	FIRST BANK MEMPHIS, TN 163-60 AHD w/271-70 (DRIVE-UP)	CONTRACT NO. DRAWING NO. C15704NDIHO	DIEBOLD
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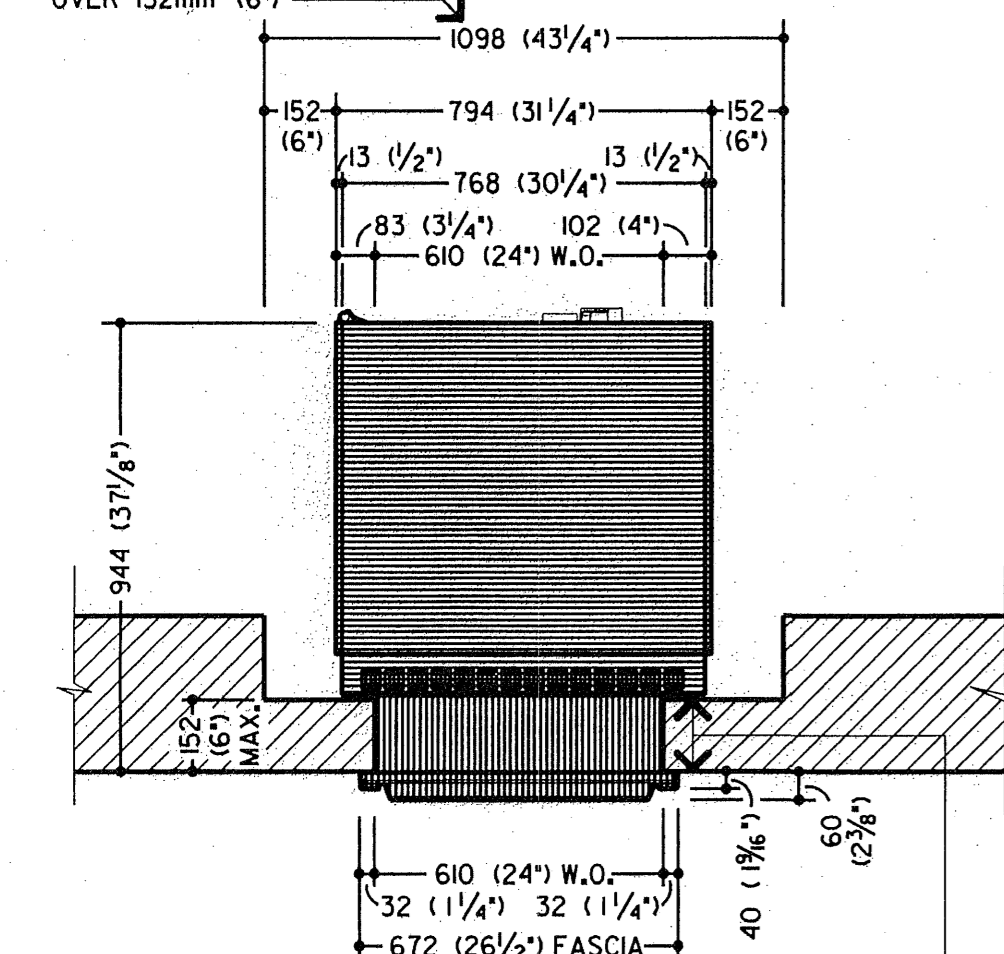
- RECOMMENDED SERVICE AREA
- MINIMUM SERVICE AREA
- ALL ELECTRICAL AND DATA CABLES MUST ENTER UNIT IN THIS AREA

NOTE:
SHOWN IS THE MINIMUM/RECOMMENDED AREA REQUIRED FOR INSTALLATION AND SERVICE. DIMENSIONS SHOWN MAY BE INCREASED WHEREVER POSSIBLE TO IMPROVE INSTALLATION AND SERVICE ACCESS. USE OF ANY AREA LESS THAN THE RECOMMENDED AREA MAY RESULT IN AN INCREASE IN INSTALLATION AND SERVICE TIME. CONSULT WITH DIEBOLD INSTALLATION/SERVICE BRANCH FOR SPECIAL BUILDING CONDITIONS.



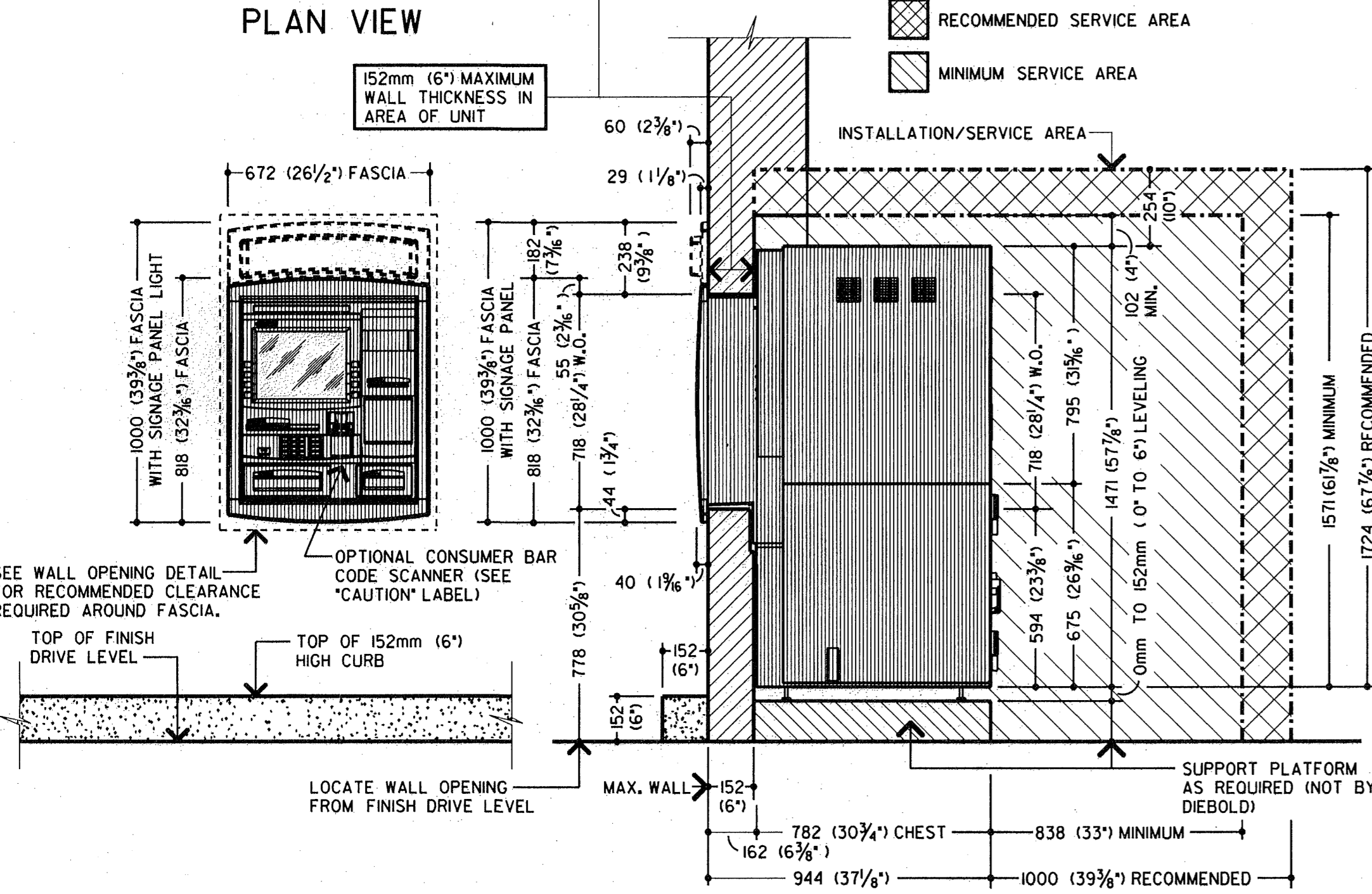
PLAN VIEW
MINIMUM SERVICE AREA

PLAN VIEW
RECOMMENDED SERVICE AREA



PLAN VIEW

CONSULT WITH DIEBOLD INSTALLATION/SERVICE BRANCH FOR ADDITIONAL DETAILS AND INFORMATION. PLEASE SEE PLANNING AND SITE PREPARATION GUIDE TP-820883-001A PD 5663.



EXTERIOR ELEVATION

VERTICAL SECTION

- CONDUIT AND JUNCTION BOX REQUIREMENTS**
- 25mm (1") METAL CONDUIT FROM ALARM CONTROL CABINET JUNCTION BOX TO 102mm (4") SQ. X 54mm (2 1/4") DP. JUNCTION BOX SHALL BE E.C. DIEBOLD TO PROVIDE FLAT COVER WITH TAMPER SWITCH.
 - WHEN "SECUROMATIC" AFTER HOUR DEPOSITORY IS TO BE CONNECTED TO ATM UNIT, E.C. TO RUN 19mm (3/4") METAL CONDUIT FROM 102mm (4") SQ. X 54mm (2 1/4") DP. JUNCTION BOX TO AFTER HOUR DEPOSITORY.
 - E.C. TO RUN 19mm (3/4") LIQUID TIGHT FLEX METAL CONDUIT OR 19mm (3/4") RIGID CONDUIT FROM JUNCTION BOX TO CABLE CONNECTING PLATE.
 - 19mm (3/4") METAL CONDUIT AND UNSWITCHED ELECTRICAL SUPPLY TO 102mm (4") SQ. X 54mm (2 1/4") DP. JUNCTION BOX WITH RECEPTACLE WITHIN 214mm (8 3/8") OF SIDE CONNECTING PLATE. BOTTOM CONNECTION MUST BE COMPENSATED ACCORDINGLY (ALL BY E.C.) (SEE POWER REQUIREMENTS).
 - E.C. TO SUPPLY COMPATIBLE RECEPTACLE FOR COUNTRY SPECIFIC PLUG-IN CONNECTOR SUPPLIED WITH UNIT. POWER CORD LENGTH 2184mm (86") FROM SIDE OF UNIT.

NOTE:
JUNCTION BOXES MUST BE LOCATED WITHIN 214mm (8 3/8") OF CONNECTING PLATE (LENGTH OF ELECTRICAL POWER CABLE PROVIDED WITH UNIT). LOCATE IN AN EASILY ACCESSIBLE AREA.
BOXES CAN BE FLUSH MOUNTED WITH CONCEALED CONDUIT FOR NEW CONSTRUCTION OR BOXES CAN BE SURFACE MOUNTED WITH EXPOSED CONDUIT FOR EXISTING CONSTRUCTION.

PHYSICAL SECURITY
THE SECURITY SAFE MEETS THE BANK PROTECTION ACT 82 STAT 295, 12 USC 882, AND MEETS THE ATTACK TEST PER UL 2915. THE SAFE DOOR HAS A POSITIVE LOCKING FEATURE. THE SAFE DOOR IS CONTROLLED BY A GROUP 2 COMBINATION LOCK WITH OR WITHOUT KEYLOCKING DIAL CAPABILITY OR OPTIONAL ELECTRONIC LOCK.

ALARM PROTECTION
THE UL-LISTED SAFE IS EQUIPPED WITH A BASIC ALARM SENSOR PACKAGE. THE BASIC PACKAGE INCLUDES A SAFE DOOR OPEN SWITCH, ALARM SHUNTING SWITCH, AND RATE-OF-RISE HEAT SENSOR.

BUILDING AIR PRESSURE
BUILDING AIR PRESSURE DIFFERENCES AT THE ATM INSTALLATION LOCATION AFFECT THE INFILTRATION OF OUTSIDE AIR AND ACCOMPANY DIRT. THE ATM WILL OPERATE THROUGH ITS FULL RANGE OF FASCIA TEMPERATURES: -34°C TO 54°C (-29°F TO 129°F) WITH ZERO (STATIC) OR POSITIVE AIR PRESSURE DIFFERENTIAL (MEASURED FROM THE INSIDE TO THE OUTSIDE OF THE BUILDING AT THE ATM INSTALLATION LOCATION). IF STATIC OR POSITIVE AIR PRESSURE CANNOT BE MAINTAINED, THE FASCIA LOWER LIMIT TEMPERATURE IS -20°C (-4°F). THE MAXIMUM NEGATIVE AIR PRESSURE ALLOWED IS 0.05 H₂O.

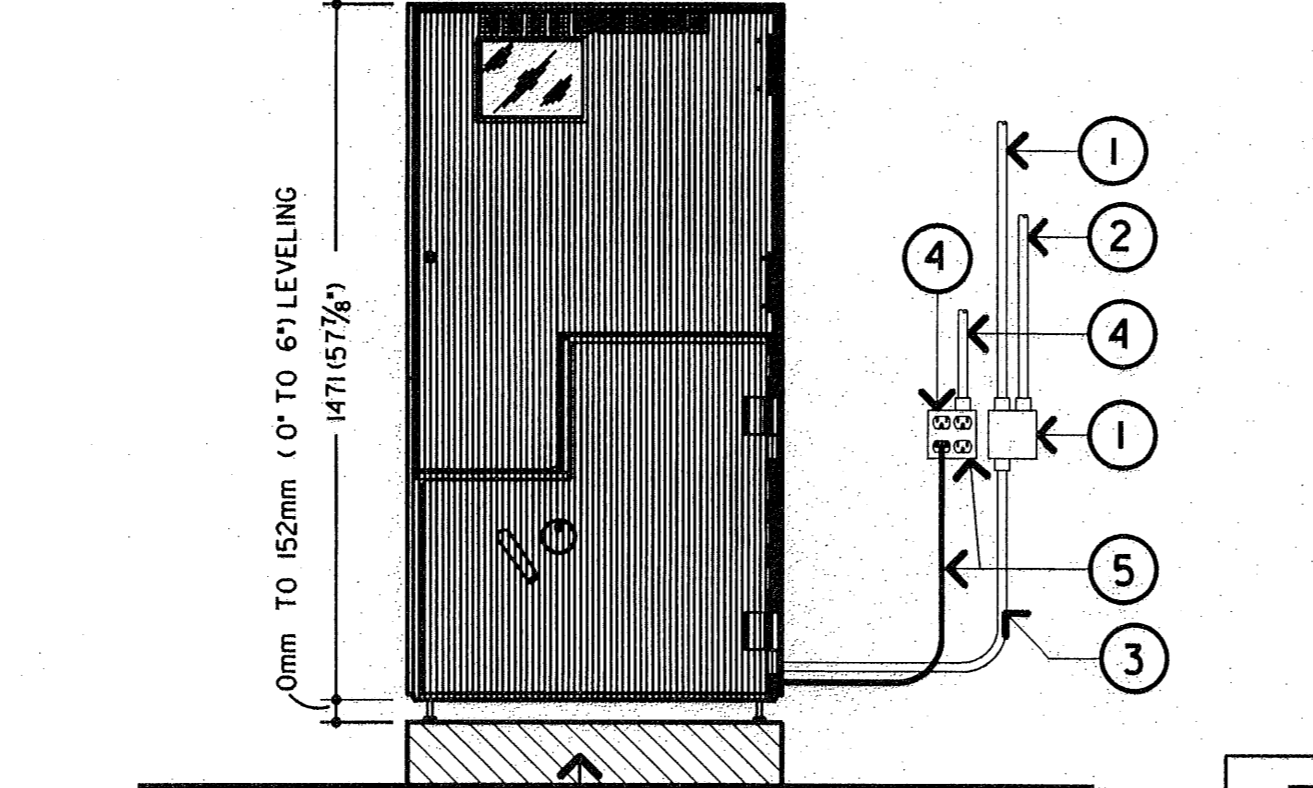
OPERATING ENVIRONMENT
SAFE LOCATION: 10°C TO 38°C (50°F TO 100°F)
RELATIVE HUMIDITY: (NON-CONDENSING)
20 TO 80% AT 32°C (90°F)
20 TO 55% AT 38°C (100°F)
FASCIA LOCATION: -34°C TO 54°C (-30°F TO 130°F)
RELATIVE HUMIDITY IS TO 100%.

WEIGHT OF UNIT
661kg (1,457 LBS.)

POWER OF ELECTRICAL RUN

TYPE OF ELECTRICAL RUN	BELOW 2 KVA	2-5 KVA	ABOVE 5 KVA
FLUORESCENT, NEON OR INCANDESCENT LIGHTING FIXTURES	127mm (5")	127mm (5")	127mm (5")
UNSHIELDED POWER LINE OR ELECTRICAL EQUIPMENT	127mm (5")	305mm (12")	610mm (2'-0")
UNSHIELDED POWER LINES OR ELECTRICAL EQUIPMENT WITH SIGNAL CABLES ENCLOSED IN GROUNDED CONDUIT	64mm (2 1/2")	152mm (6")	305mm (12")
POWER LINES IN GROUNDED CONDUIT WITH SIGNAL CABLES IN GROUNDED CONDUIT	30mm (1 1/8")	76mm (3")	152mm (6")

SIGNAL CABLE INSTALLATION CONSTRAINTS
RELATIVE CARE IS REQUIRED WHEN INSTALLING SIGNAL CABLES IN CONDUITS. UNLIKE POWER AND LIGHTING CABLES, SIGNAL CABLES HAVE SMALL CONDUCTORS AND LIGHT INSULATION AND WILL NOT WITHSTAND AS MUCH STRAIN IN INSTALLATION.



INTERIOR ELEVATION

POWER REQUIREMENTS
THE ATM REQUIRES A SINGLE-PHASE, THREE-WIRE UNSWITCHED POWER RECEPTACLE. WIRING TO THE RECEPTACLE MUST INCLUDE A THRD-WIRE EARTH GROUND (CONDUIT GROUND IS NOT ACCEPTABLE). THE ATM WILL PROVIDE A POWER CORD WITH A COUNTRY SPECIFIC POWER PLUG. THE POWER SUPPLIED MUST BE AS SPECIFIED BELOW.

100-127 VAC (+6%, -10%) 50HZ (+/-) 10% SINGLE PHASE
100-127 VAC (+6%, -10%) 60HZ (+/-) 10% SINGLE PHASE
200-240 VAC (+/-) 10% 50HZ (+/-) 10% SINGLE PHASE
200-240 VAC (+/-) 10% 60HZ (+/-) 10% SINGLE PHASE

POWER TO THE ATM MUST BE PROTECTED BY A SAFETY QUICK-DISCONNECT DEVICE TO BREAK LINE VOLTAGE (SUCH AS A CIRCUIT BREAKER AT THE ELECTRICAL SERVICE PANEL, THE QUICK-DISCONNECT DEVICE OR CIRCUIT BREAKER MUST TURN OFF THE LINE VOLTAGE AT THE FOLLOWING AMPERAGE.

100-127 VAC (+6%, -10%) SERVICE, DISCONNECT AT 20 AMPERES
200-240 VAC (+6%, -10%) SERVICE, DISCONNECT AT 10 AMPERES

THE MODULE BULK POWER SUPPLY AND PROCESSOR POWER SUPPLY WILL PROVIDE POWER CONDITIONING TO PREVENT THE TERMINAL FROM MALFUNCTIONING DUE TO SHORT-TERM AC POWER FLUCTUATIONS AS OUTLINED IN EN6100-4-11.

POWER USAGE

MACHINE STATUS	① WITH HEATER	② WITH HEATER
IDLE (NO TRANSACTION)	190 WATTS	690 WATTS
TRANSACTION (DISPENSE OR BULK NOTE) IN PROGRESS	285 WATTS	785 WATTS
	375 WATTS	875 WATTS

CONFIGURATION

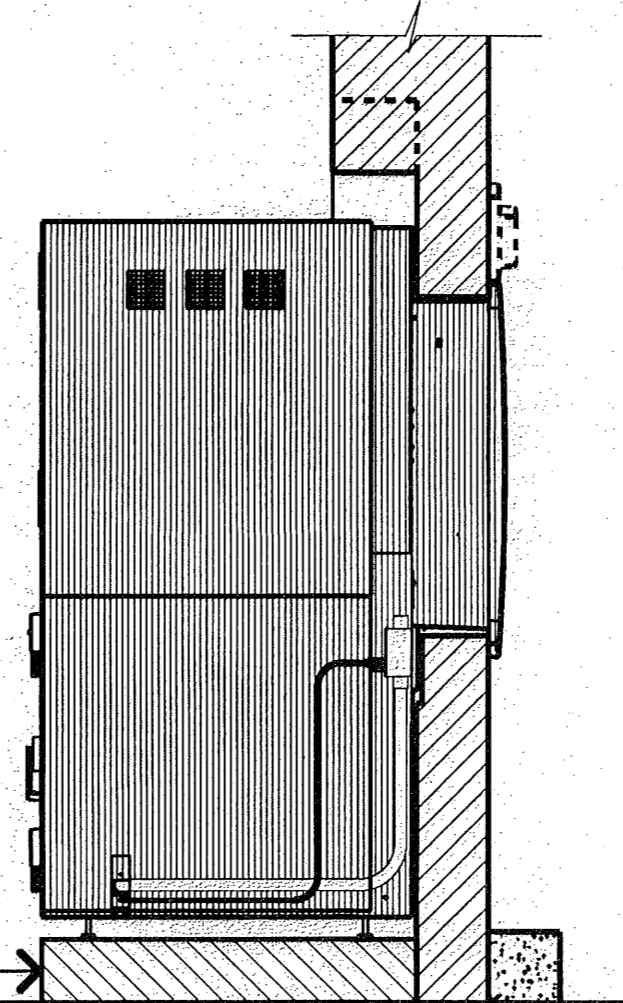
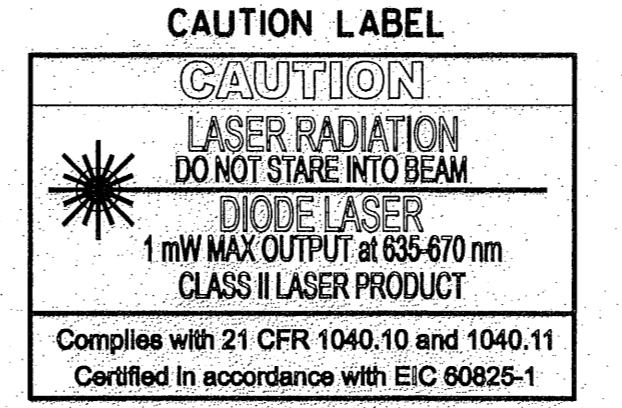
① PROCESSOR, COLOR LCD CONSUMER DISPLAY, MOTORIZED CARD READER, JOURNAL PRINTER, 80mm THERMAL RECEIPT PRINTER, STANDARD DEPOSITORY AND 4 HIGH AFD.

② PROCESSOR, SVD LCD CONSUMER DISPLAY, MOTORIZED CARD READER, JOURNAL PRINTER, 80mm THERMAL RECEIPT PRINTER, DM-4 HIGH AFD, SIGNAGE AND BULK NOTE ACCEPTOR. THE POWER USE DEPENDS ON THE NUMBER AND TYPE OF DEVICES PRESENT IN THE ATM, AND THE TYPE OF TRANSACTION THE ATM IS PERFORMING.

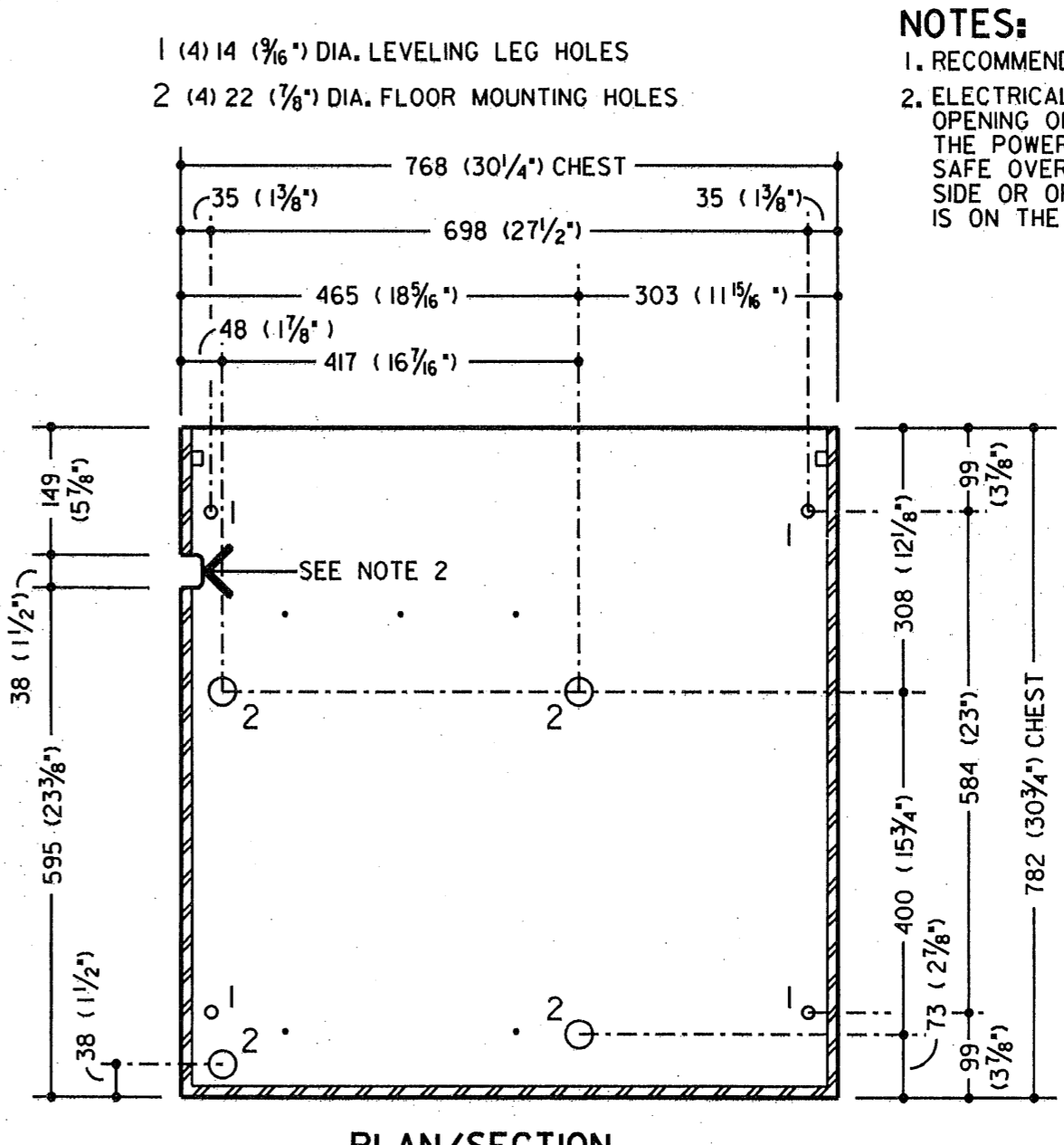
HEAT OUTPUT CONFIGURATION

① 2,677 BTU/HR DISPENSE WITH HEATER
548 BTU/HR IDLE WITHOUT HEATER

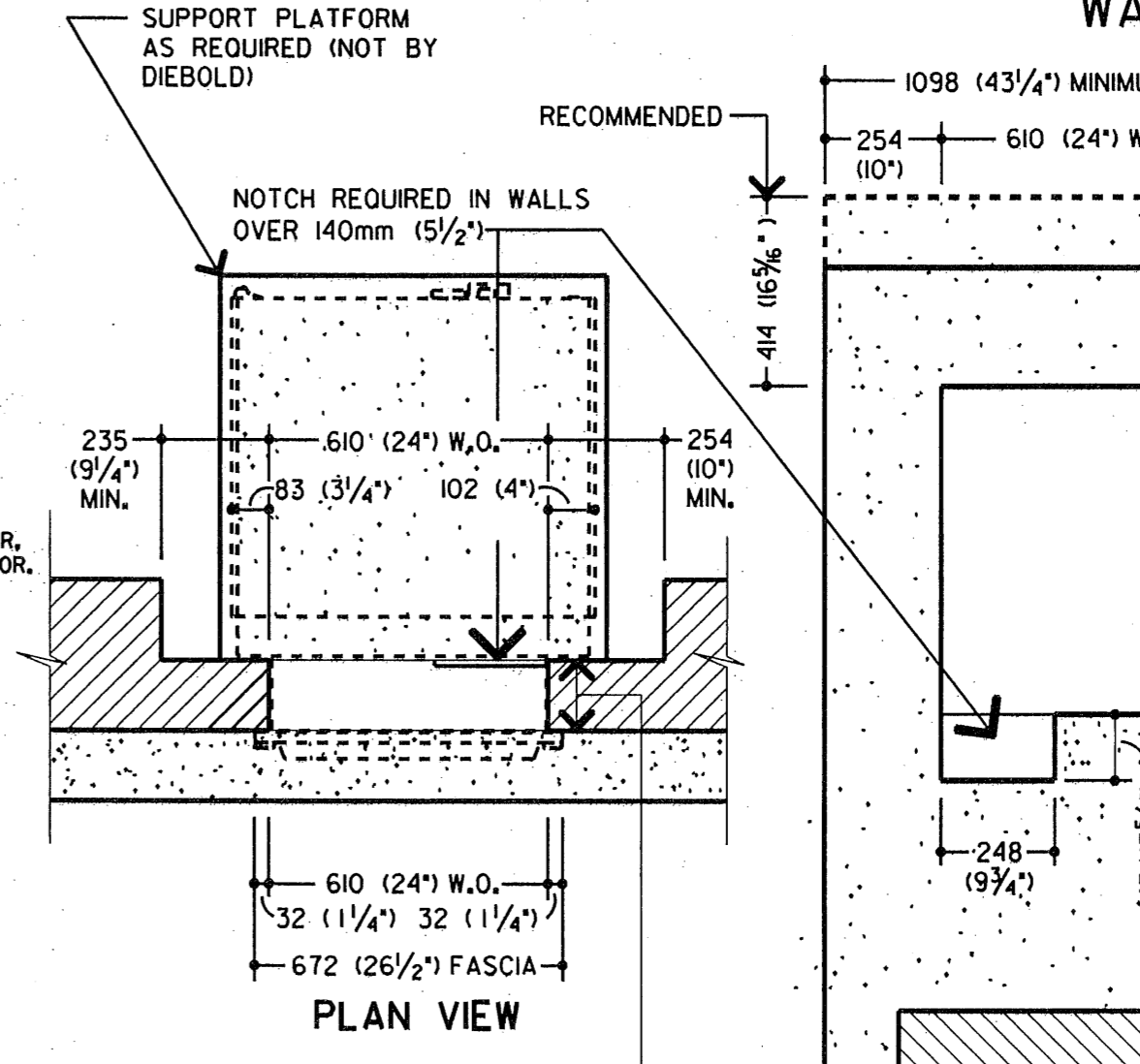
② 2,984 BTU/HR BULK NOTE WITH HEATER
870 BTU/HR IDLE WITHOUT HEATER



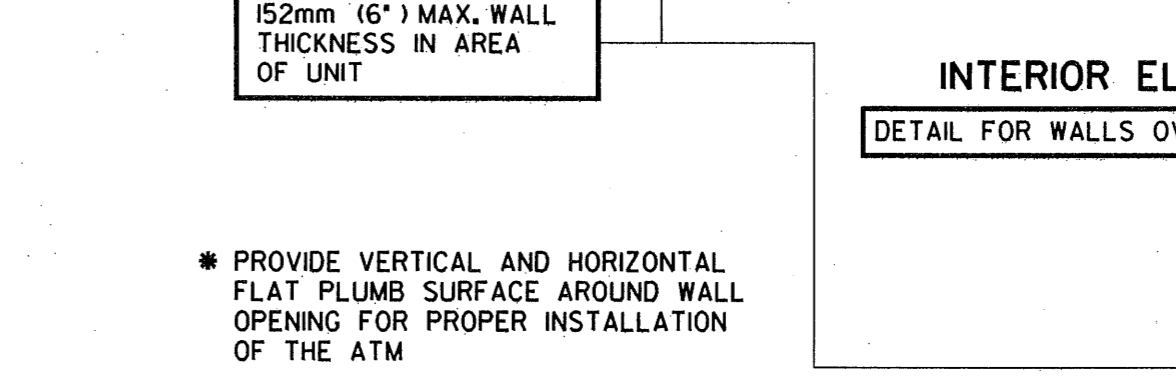
VERTICAL SECTION



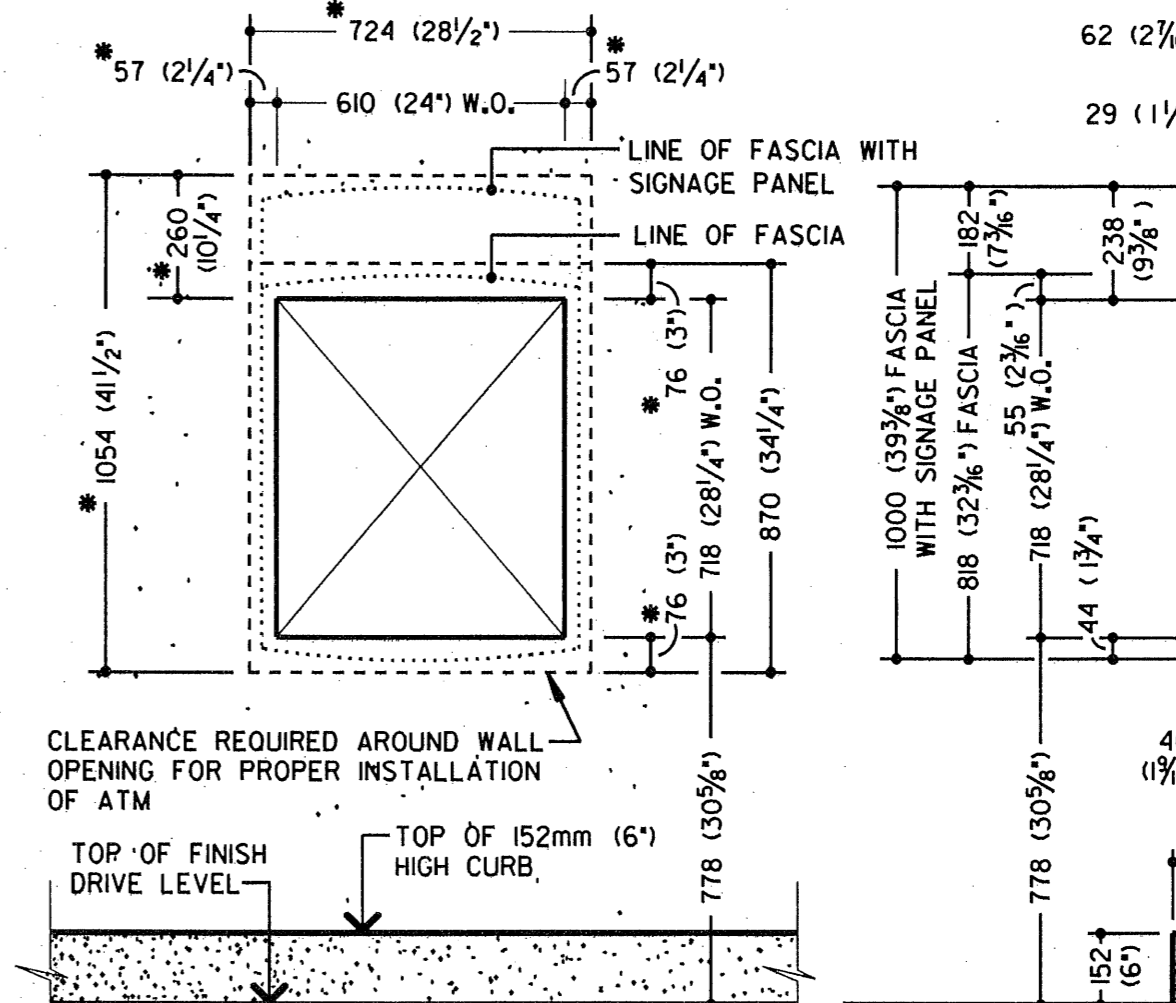
PLAN/SECTION



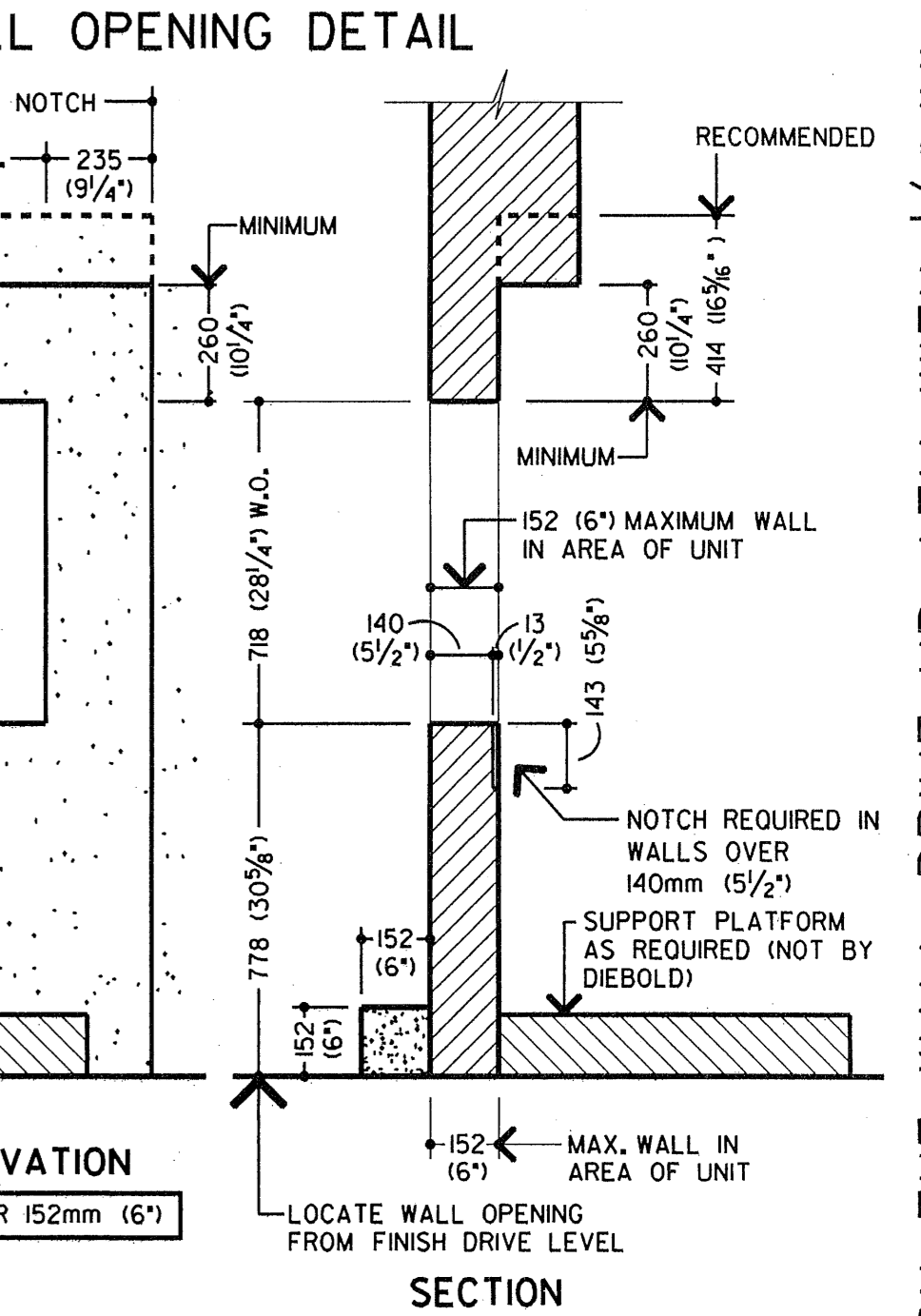
PLAN VIEW



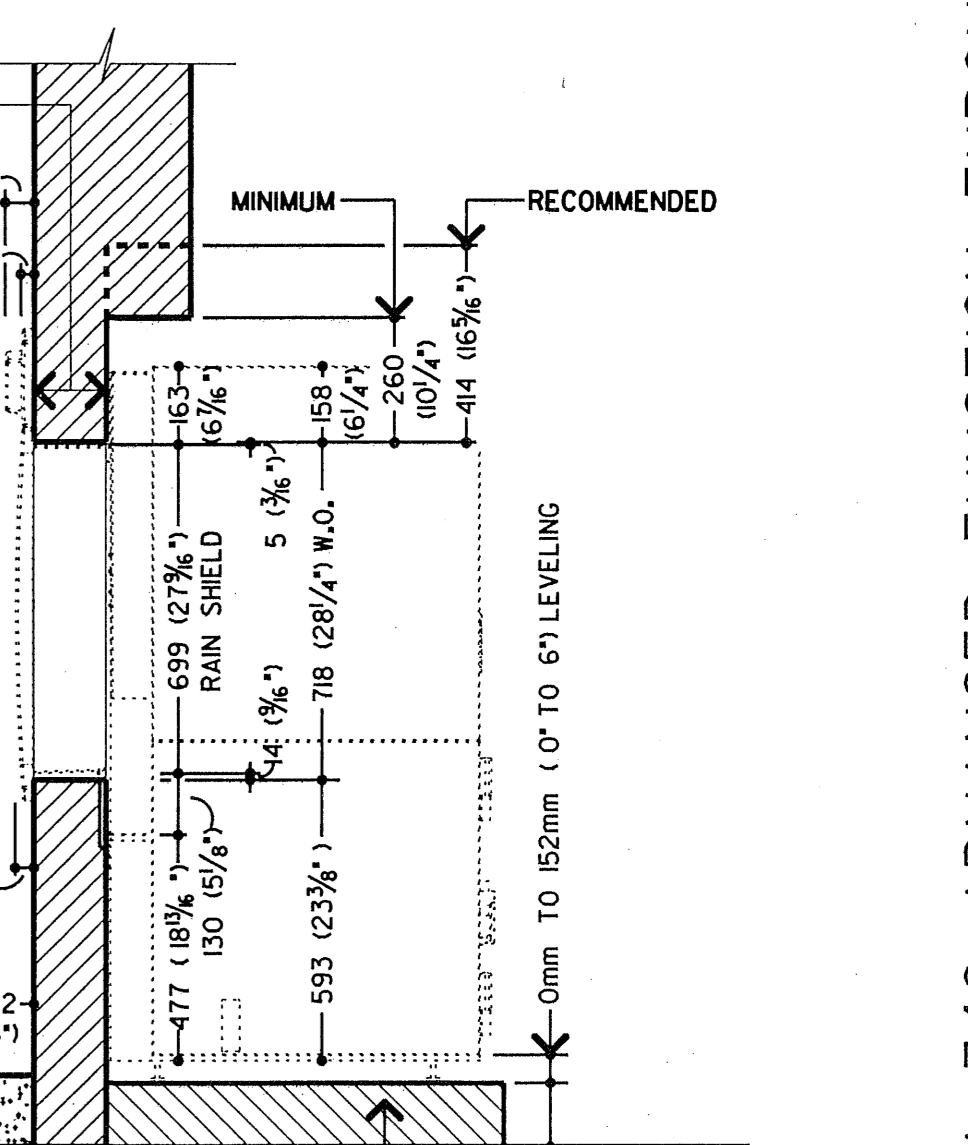
INTERIOR ELEVATION



EXTERIOR ELEVATION

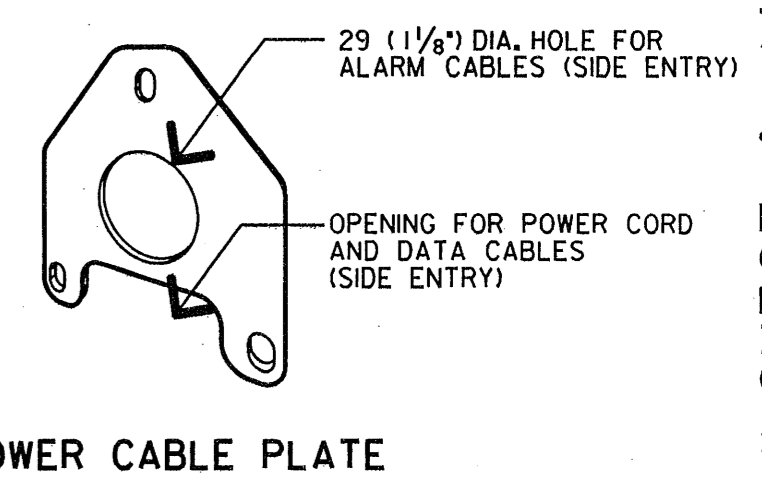


WALL OPENING DETAIL



VERTICAL SECTION

- NOTES:**
- RECOMMENDED ANCHOR BOLT SIZE - M20 19mm (3/4") (NOT SUPPLIED WITH ATM).
 - ELECTRICAL AND DATA CABLES ENTER THE ATM THROUGH A CABLE ENTRY OPENING ON THE SIDE OF THE SAFE. CABLES ENTERING THE ATM PASS THROUGH THE POWER CABLE PLATE WHICH IS ATTACHED TO THE INSIDE WALL OF THE SAFE. OVER THE CABLE ENTRY OPENING, CABLES CAN ENTER FROM THE SIDE OR OPTIONALLY FROM UNDER THE ATM. THE CABLE ENTRY OPENING IS ON THE RIGHT SIDE OF THE SAFE AS VIEWED FROM THE REAR OF THE ATM.



POWER CABLE PLATE

OPTEVA 740 ADVANCED FUNCTION THROUGH THE WALL DRIVE-UP ATM WITH 1/2" (UL 291LEVEL) CHEST & (4) CASSETTES