



TUBAC FIRE DISTRICT

2227 EAST FRONTAGE ROAD
P.O. BOX 2881
TUBAC, ARIZONA 85646
TELEPHONE: (520)398-2255

REGULAR MEETING OF THE BOARD OF DIRECTORS

The Tubac Fire District Board of Directors will meet in regular session on August 28, 2024, at 3:00 pm at the Tubac Community Center Building located at 50 Bridge Rd in Tubac. The following topics and any variables thereto, will be subject to Board consideration, discussion, approval, or other action. The Board may consider any item on this agenda in any order and at any time during the meeting. The Board may convene into Executive Session for discussion or consultation for legal advice with its attorney regarding any item on this agenda, in accordance with A.R.S. § 38-431.03(A)(3).

Members of the public may attend the meeting in person, by viewing the livestream on the Tubac Fire District Facebook page, or by telephone by calling (346) 248-7799 and entering the Webinar ID, 827 3360 0975, if prompted.

NOTE: Executive Sessions are CONFIDENTIAL pursuant to A.R.S. § 38-431.03(C). Members of the public may not participate in Executive Sessions.

Members of the public who are not able to attend the meeting in person, may submit comments to the Board by email. The emails will be read out loud during the meeting. Please email any comments to bhamric@tubacfire.org. Emails must be received no later than 5pm the day before the meeting and must include your full name as well as your phone number (to allow District staff to contact you with any questions).

Agenda

1. Call to order and Pledge of Allegiance
2. Roll call of Board Members
3. Reading of public comments submitted via email.
4. Call to the Public: "This is the time for the public to comment on items related to the Fire District. Members of the Board may not discuss items that are not on the agenda. Therefore, the Fire Board is not permitted to discuss or act on any items raised in the Call to the Public which is not on the agenda due to restrictions of the Open Meeting Law; however, individual Board members are permitted to respond to criticism directed to them. Otherwise, the Board has discretion to direct the Fire Chief to review the matter or that the matter is placed on a future agenda. Those wishing to address the Board need not request permission in advance. A member of the public may speak for a reasonable time as determined by the Board. If no time is specified, the presumed time limit will be 3 minutes per person. The Fire Board Chair may adjust time limitations and all individuals desiring to address the Fire Board will have the same opportunity."
5. Correspondence
6. Report from Board Members
7. Chief and Staff Report
 - a. Operations Update
 - b. Training
 - c. Administration Update
 - d. Wildland Update

8. Monthly Financial Report for July 2024
9. Consent Agenda
 - a. Approval of minutes from July 31, 2024.
 - b. Approval of monthly financial report for July 2024.
10. Presentation by Breckenridge regarding Tubac Fire Station #1 project intermediate plans.
11. **Executive Session** - Pursuant to A.R.S. § 38-431.03(A)(3), discussion and consultation for legal advice and/or direction regarding the Santa Cruz County Treasure investigation as it relates to the Fire District.
12. Discussion and possible action to provide direction to fire chief regarding the Santa Cruz County investigation.
13. Future Agenda Items
14. Next meeting: September 25, 2024
15. Adjourn meeting.

Notice of Meeting (Agenda) dated and posted August 23, 2024, by 3:00 p.m. local time by B. Hamric.

If any disabled person needs any type of accommodation, please notify the Tubac Fire District prior to the scheduled meeting time.



Staff Report
Tubac Fire Board
August 2024

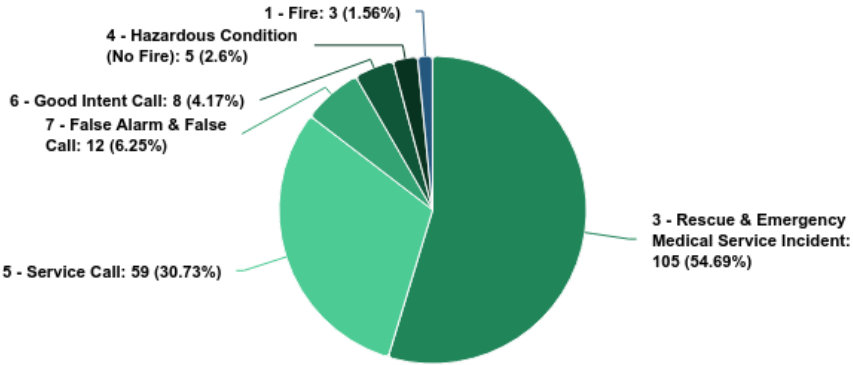
Tubac Fire District is committed to the safety of our community through the delivery of fire suppression, medical services, and public education.

July Emergency Responses



Incident Type Categories

Jul 01, 2024 to Jul 31, 2024



- **EMS** **105 (54 Transports, 2 Transfer of care to Air ambulance)**
- **Fire** **20**
- **Public Assist** **67**
- **Total Calls** **192**

Incidents by Category and Month

Jan 01, 2023 12:00 AM to Aug 21, 2024 07:34 PM

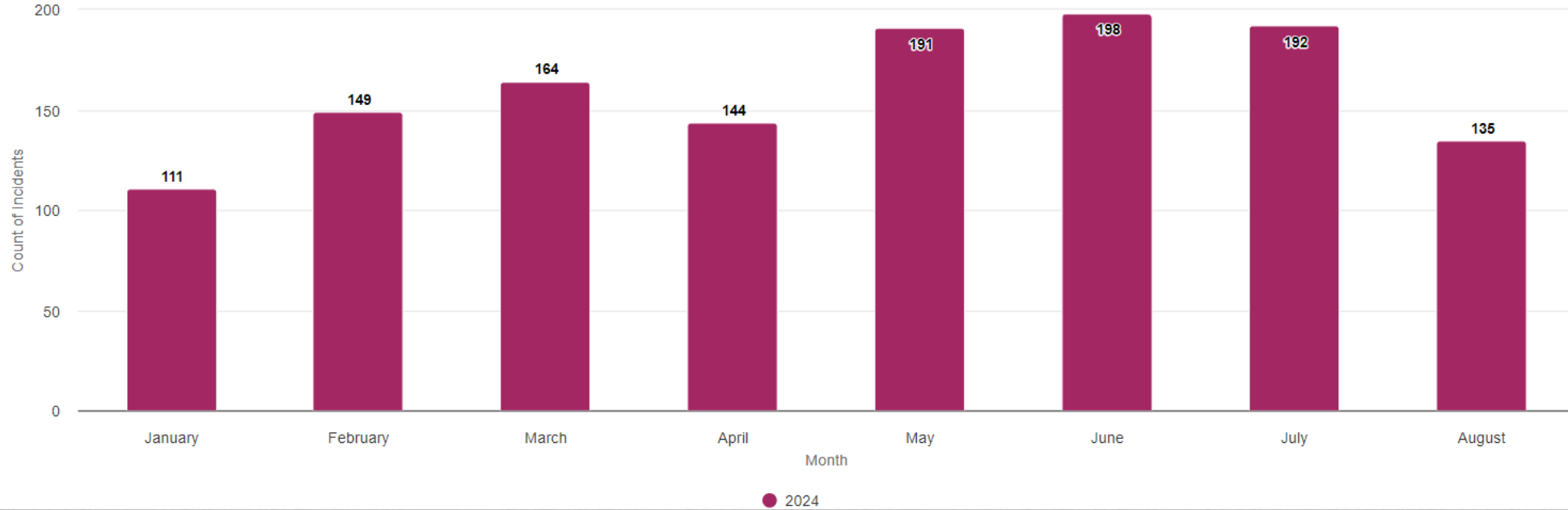
Incident Type Category	2024								2024		2023		YTD % Change
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Grand Total - Current	% of Total Incidents - Current	Grand Total - Previous	% of Total Incidents - Previous	
1 - Fire	4	5	3	2	3	7	3	4	31	2.00%	42	4.00%	-26.19%
3 - Rescue & Emergency Medical Service Incident	84	107	123	95	117	115	105	71	817	64.00%	636	59.00%	28.46%
4 - Hazardous Condition (No Fire)	1	3	6	5	4	2	5	5	31	2.00%	24	2.00%	29.17%
5 - Service Call	11	20	16	22	42	57	59	41	268	21.00%	255	24.00%	5.10%
6 - Good Intent Call	6	8	11	13	18	9	8	7	80	6.00%	75	7.00%	6.67%
7 - False Alarm & False Call	5	4	5	7	5	8	12	7	53	4.00%	48	4.00%	10.42%
8 - Severe Weather & Natural Disaster	0	0	0	0	0	0	0	0	0	0.00%	1	0.00%	-100.00%
9 - Special Incident Type	0	2	0	0	0	0	0	0	2	0.00%	0	0.00%	N/A
Grand Total	111	149	164	144	189	198	192	135	1,282	100.00%	1,081	100.00%	18.59%

YTD Call Volume



Incidents by Month

Jan 01, 2024 to Dec 31, 2024



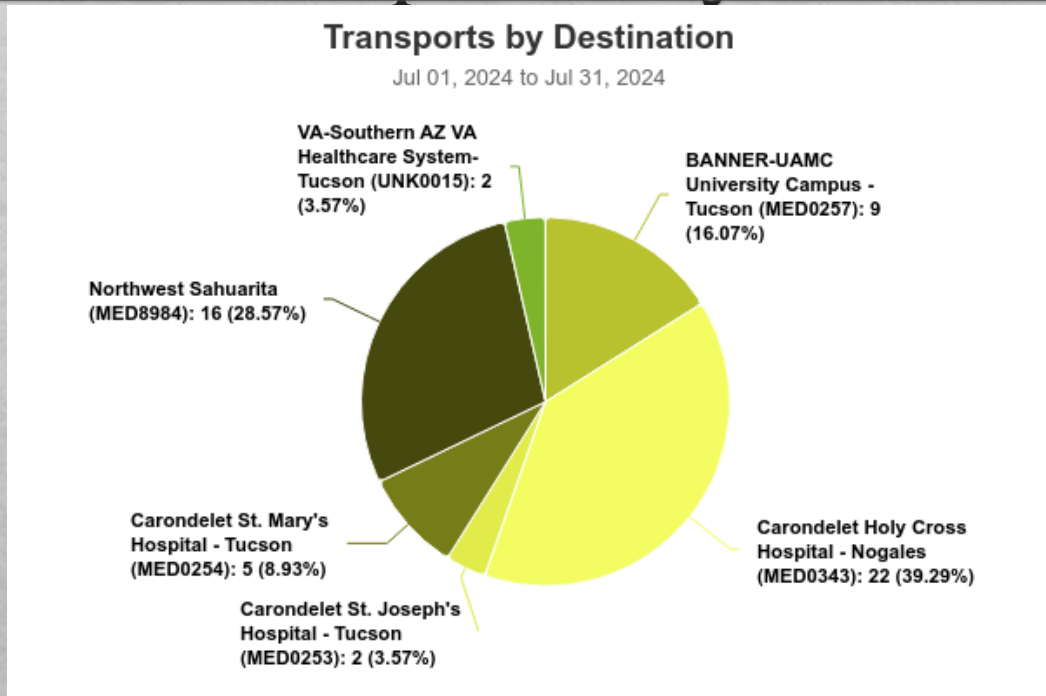
Monthly Call Volume Year over Year

Jan 01, 2023 12:00 AM to Aug 21, 2024 07:50 PM

Month Name	2024		2023		YTD % Change
	Grand Total - Current	% of Total Incidents - Current	Grand Total - Previous	% of Total Incidents - Previous	
January	111	9.00%	110	10.00%	0.91%
February	149	12.00%	128	12.00%	16.41%
March	164	13.00%	125	12.00%	31.20%
April	144	11.00%	145	13.00%	-0.69%
May	191	15.00%	142	13.00%	34.51%
June	198	15.00%	157	15.00%	26.11%
July	192	15.00%	164	15.00%	17.07%
August	135	11.00%	110	10.00%	22.73%
Grand Total	1,284	100.00%	1,081	100.00%	18.78%



July Ambulance Transports by Destination



Transports by Destination Summary

Jul 01, 2024 to Jul 31, 2024



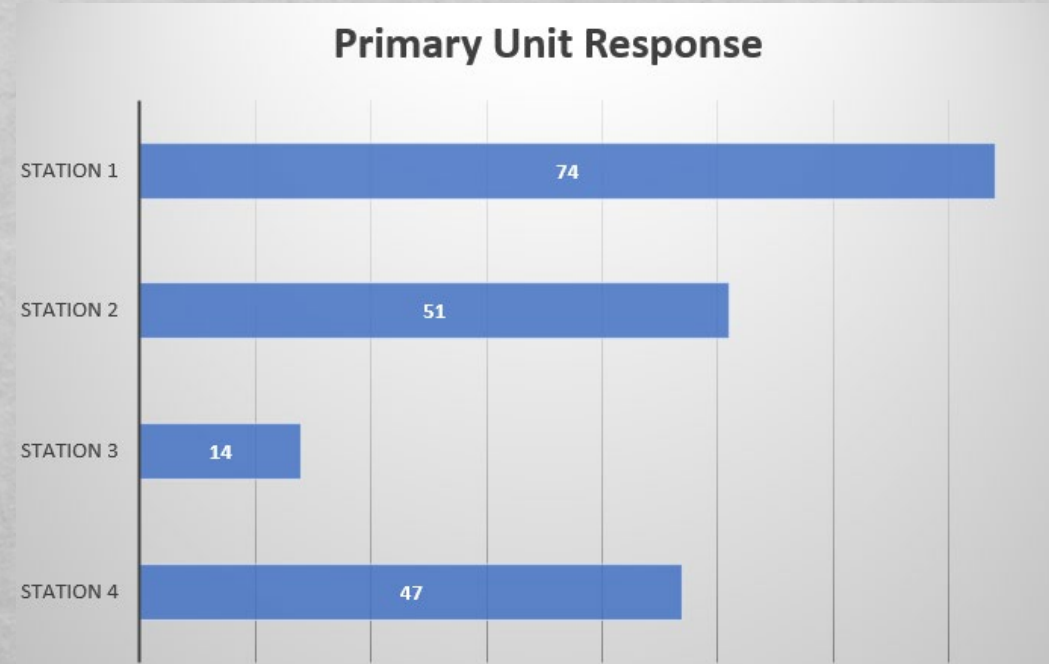
Hospital		Transports		Transport Time		Patient Arrival to Transfer of Care		Patient Arrival to Transfer of Care Signature		Patient Arrival to Unit Back in Service	
Name	ID	Total	% of Total	Median	90th Percentile	Median	90th Percentile	Median	90th Percentile	Median	90th Percentile
BANNER-UAMC University Campus - Tucson	MED0257	9	16.07%	56:03	66:07	11:13	36:09	11:43	30:30	57:58	162:36
Carondelet Holy Cross Hospital - Nogales	MED0343	22	39.29%	18:40	24:21	07:56	15:39	09:08	15:00	22:39	40:00
Carondelet St. Joseph's Hospital - Tucson	MED0253	2	3.57%	79:26	84:43	22:34	22:52	33:16	22:45	103:32	114:27
Carondelet St. Mary's Hospital - Tucson	MED0254	5	8.93%	53:41	58:03	16:05	43:37	14:32	39:42	64:08	93:55
Northwest Sahuarita	MED8984	16	28.57%	31:29	37:16	07:06	12:48	08:37	15:17	44:56	65:35
VA-Southern AZ VA Healthcare System-Tucson	UNK0015	2	3.57%	46:41	50:36	02:11	02:34	01:18	08:16	26:53	29:23
Overall		56	100.00%	30:46	64:06	08:24	21:17	09:08	21:35	37:00	86:18

July Emergency Responses By Station



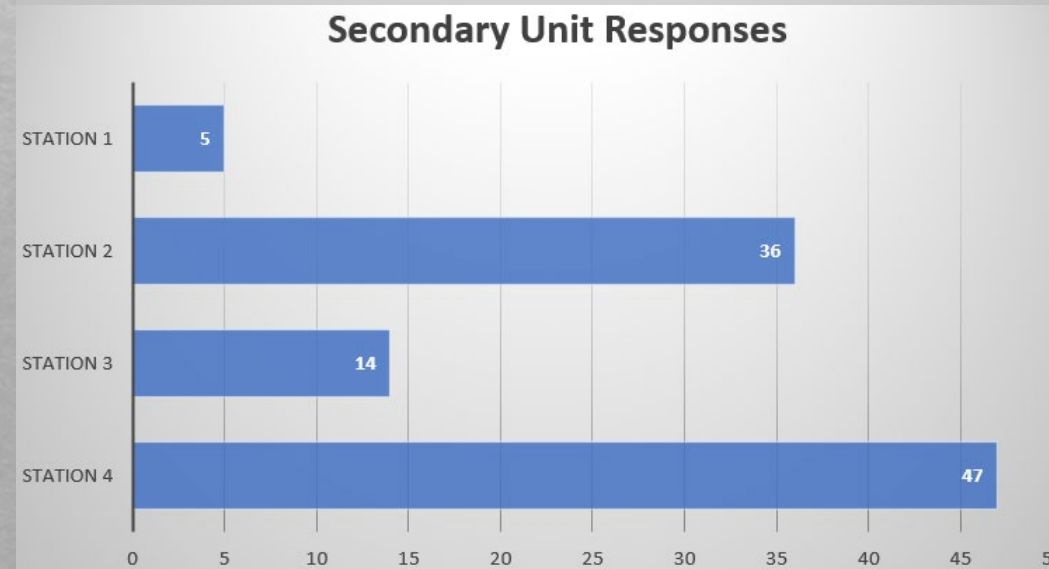
Primary Responses by Station

- Station 1 74
- Station 2 51
- Station 3 25
- Station 4 42



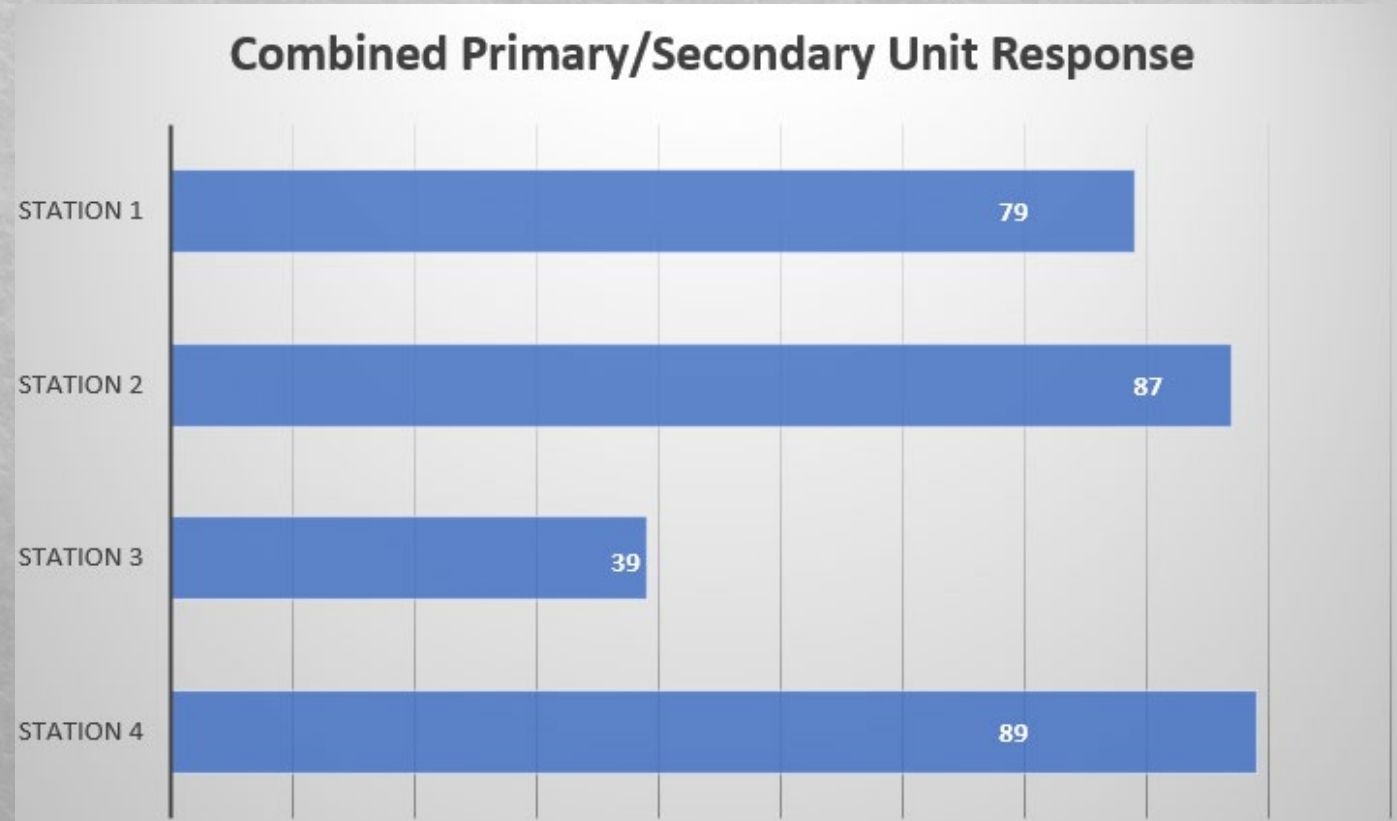
Secondary Responses by Station

- Station 1 5
- Station 2 36
- Station 3 14
- Station 4 47





July Combined Primary/Secondary Unit responses by station



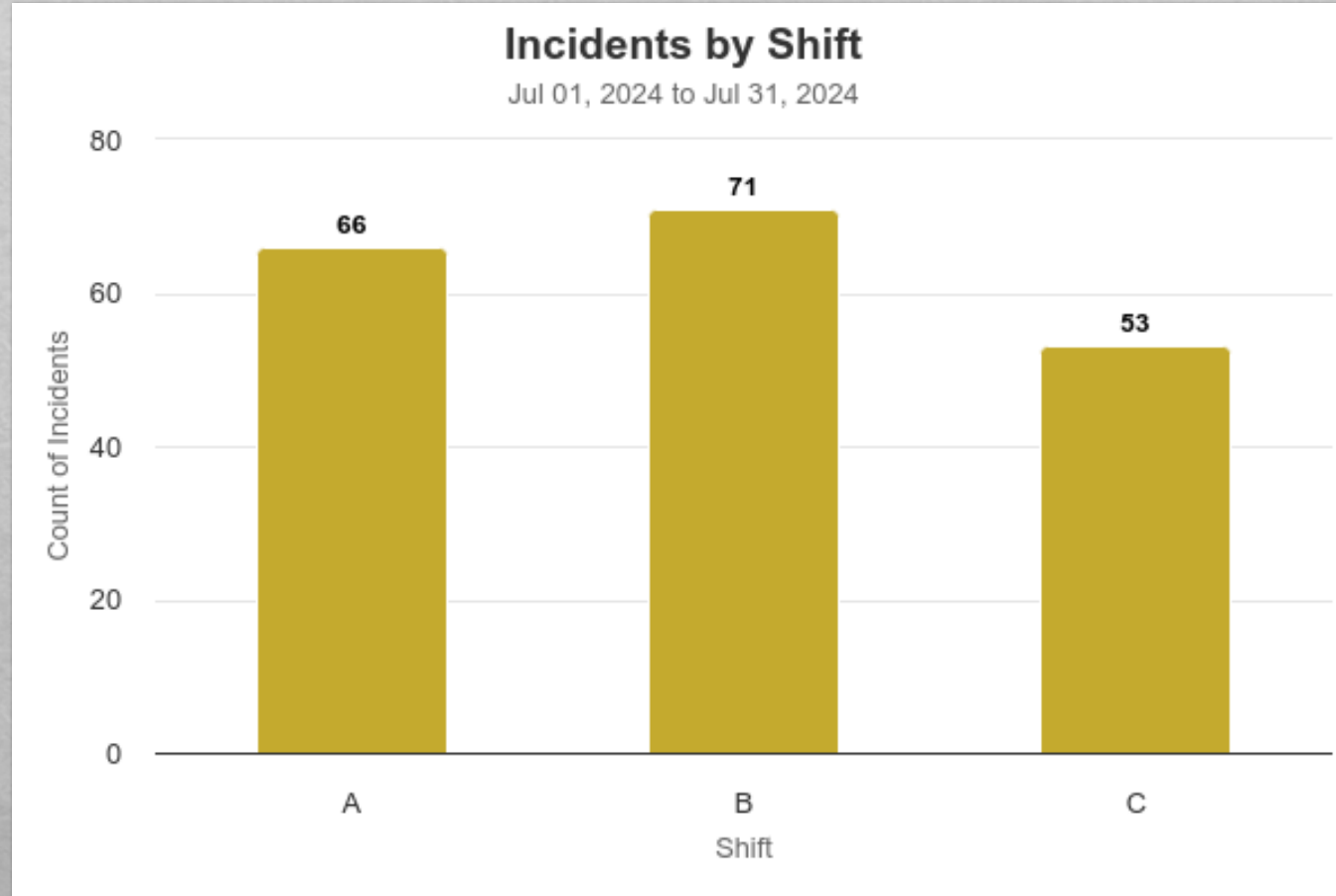
- ❖ Station 1 79
- ❖ Station 2 87
- ❖ Station 3 39
- ❖ Station 4 89

July Incidents by shift



- A Shift
- B Shift
- C Shift

Prev	July 2024						Next
SU	MO	TU	WE	TH	FR	SA	
	1	2	3	4	5	6	
7	8	9	10	11	12	13	
14	15	16	17	18	19	20	
21	22	23	24	25	26	27	
28	29	30	31				



A Shift 66
B Shift 71
C shift 53

Significant Calls



- ❖ Crews responded to a residence for a reported fall injury. Upon arrival, they discovered that the patient had not fallen but was suffering from a heat stroke. The patient then went into cardiac arrest and unfortunately, the crew was not able to resuscitate the patient.
- ❖ The crew responded to a significant call involving an elderly male experiencing chest pains and shortness of breath. An EKG indicated an anterior MI, and the patient was airlifted to a nearby hospital for further treatment
- ❖ Crew responded to the area of West Frontage Road near Station 2 for a large commercial truck that caught power lines crossing over the road, causing severe damage to one of the power poles. Road closures were in effect from Camino Agosto to Avenida Papalote.
- ❖ On Saturday morning, crews responded to Mount Hopkins Road, where several unresponsive cyclists were found after an accident. One critical patient was airlifted to a trauma center, another was transported by ground, and a third left before receiving care.



Training

- ❖ Rope Rescue: mechanical advantage systems, low to medium angle rescue.
- ❖ Hoisting Operations
- ❖ Ladder Operations
- ❖ Multi Agency drill at Rio Rico Resort



Public Education/Fire Prevention and Events



- ❖ Attended 4th of July Parade in Nogales
- ❖ Attended 4th of July Celebration at the Tubac Presidio
- ❖ Tubac Fire participated in the Back-to-School Blitz where over 500 students received school supplies
- ❖ Tubac Fire received recognition from Santa Cruz County Office of Emergency Management for teaching and inspiring the youth of Santa Cruz County



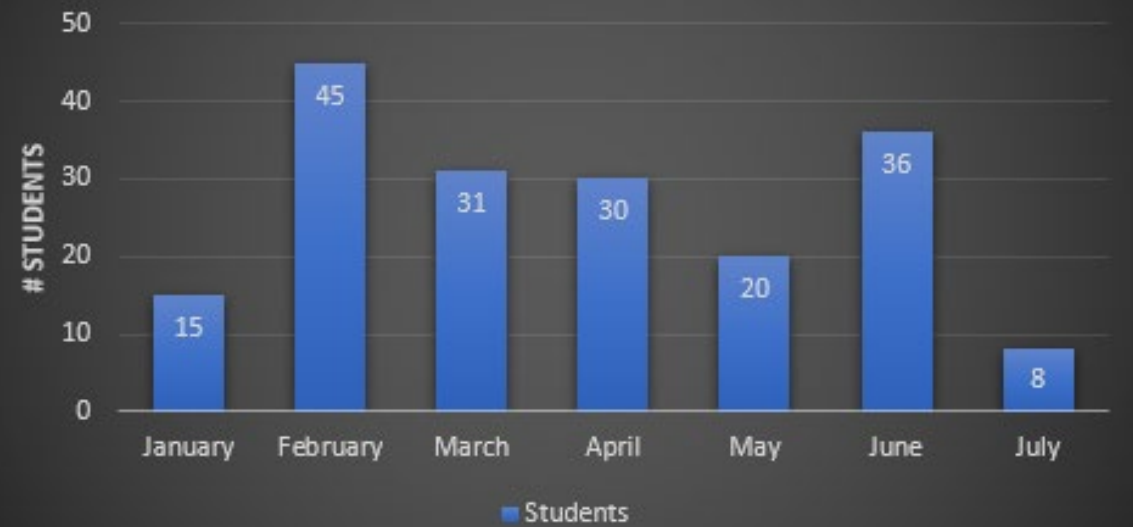


Fire Prevention and CPR Classes

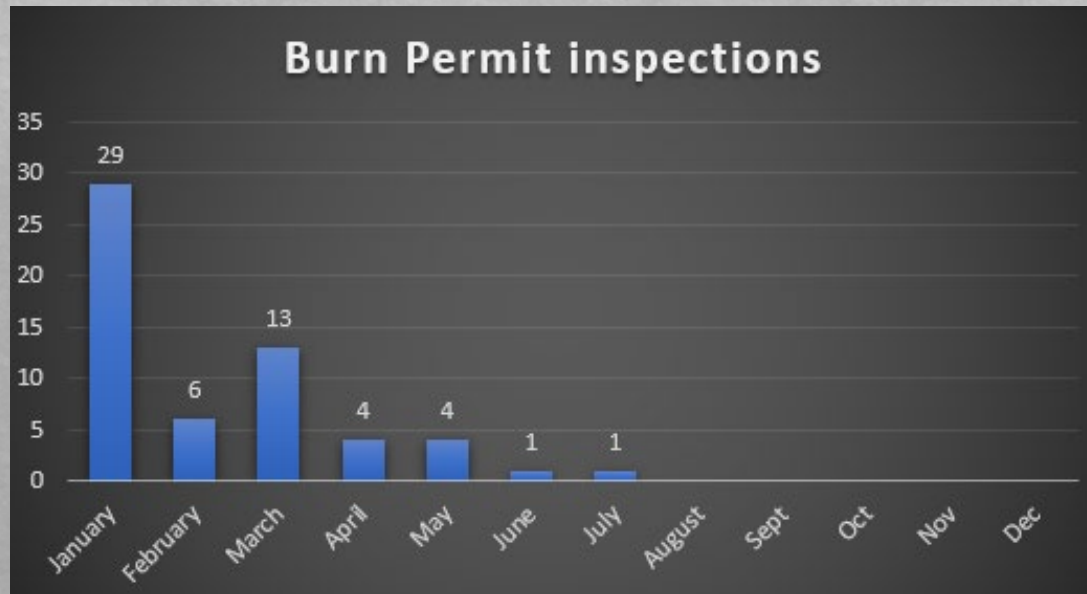
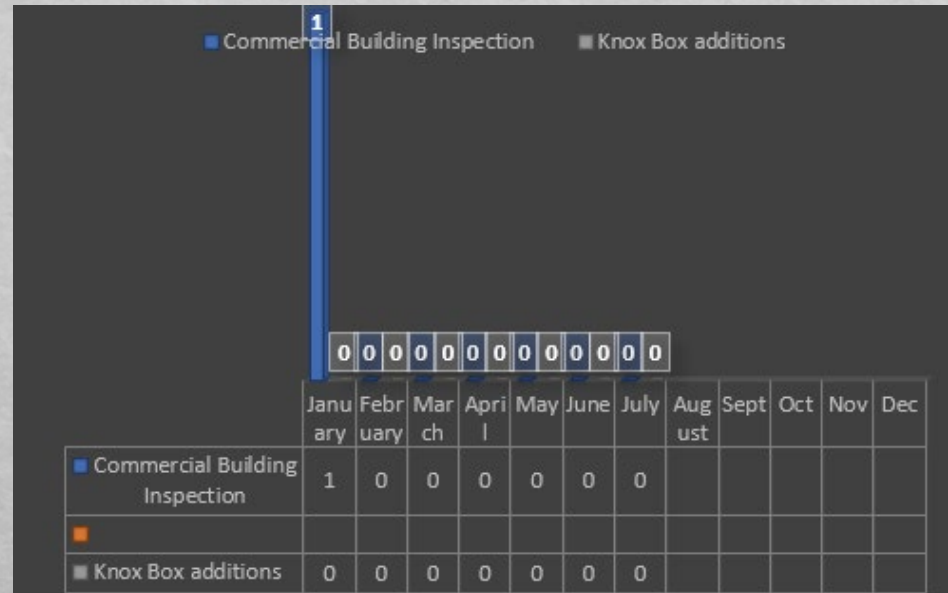
Fire Prevention Students



CPR Students 2024

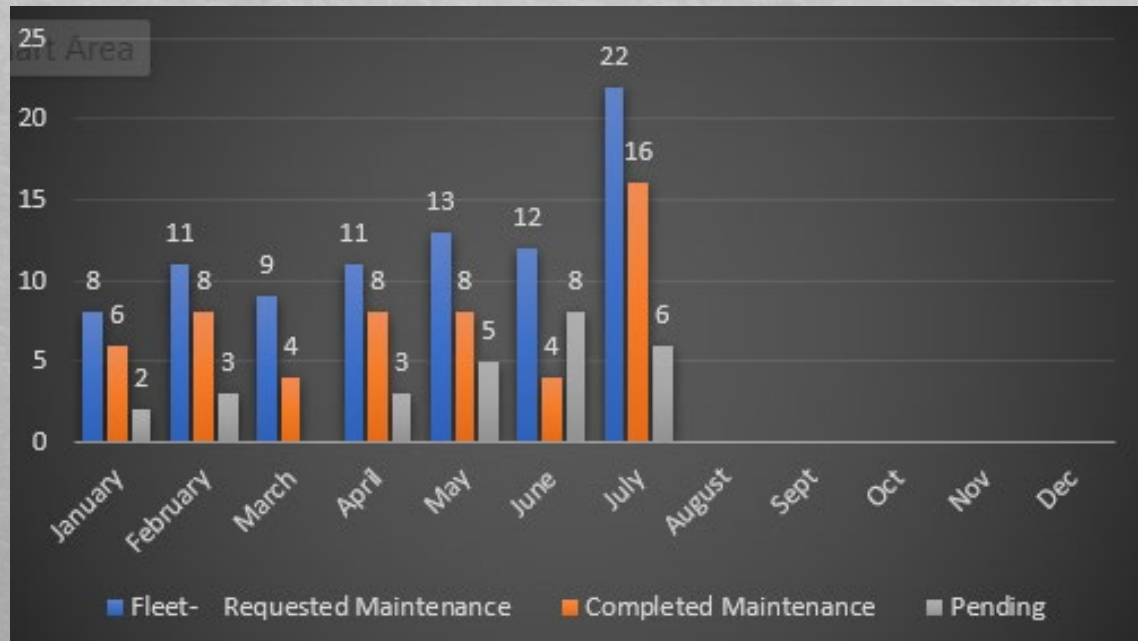


Plans Review & Inspections

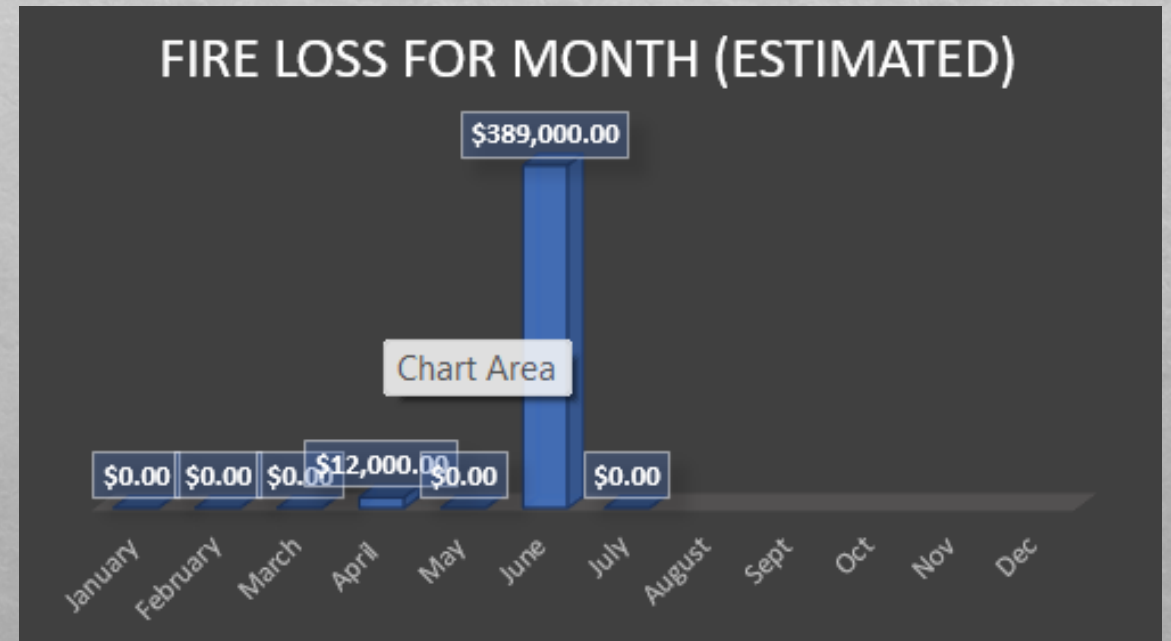




Maintenance Requests



Fire Loss Due To Incident



Tubac Fire District

2227 E I-19 Frontage Rd
Tubac, AZ 85646
520.398.2255



Monthly Financial Report – July 2024

Attached are the following for your information and review:

1. Balance Sheet as of July 30, 2024.
2. Summary of Reconciled Cash Balances as of July 30, 2024.
3. Income Statement of Revenues and Expenditures for July 2024 including budget to actual and year-to-date balances.
4. Income vs. Expenses Graph for FY 2024.
5. Fixed Asset Additions and Disposals for FY 23/24.
6. Liabilities & Securities for FY 23/24.
7. Fleet Repairs & Maintenance Expenses.
8. Station Utilities, Supplies, and Repairs & Maintenance Expenses.
9. Board Presentation.
10. Monthly Transaction Report.
11. 12-Month Cash Flow.

Key points:

- Total Revenue for July is \$151,727, which is \$16,440 over budget.
- Non-Levy Revenue is \$130,669 which is \$1,711 over budget due to EMS Revenue offset by lower Wildland Revenue.
- Tax Revenue for July is \$21,059, which is over budget by \$14,730.
- Operating Expenses for July totaled \$342,005, which is under budget by \$62,827, driven by Salaries & Wages, and Employee Benefits.
- Cash balance as of July 2024 is \$10,608,971, which is up \$4,841,820 from last year.

Please contact the Finance Director for any questions or concerns regarding this report.

This report and the attached detail reports have been reviewed and approved by the Fire Board.

Board Clerk

Date

10:31 AM

08/23/24

Accrual Basis

Tubac Fire District
Balance Sheet
As of July 31, 2024

	Jul 31, 24	Jul 31, 23	\$ Change
ASSETS			
Current Assets			
Checking/Savings			
1132 · Bond Proceeds Account	4,400,000.00	0.00	4,400,000.00
1133 · LGIP - State Investment Account	4,394,499.64	0.00	4,394,499.64
1127 · Cash with County Treasurer	16,220.79	14,507.26	1,713.53
1129 · Operational	1,055,142.05	825,256.78	229,885.27
1130 · Savings Acct.	448,085.57	4,647,681.07	-4,199,595.50
1131 · Bond Account	295,022.95	279,706.11	15,316.84
Total Checking/Savings	10,608,971.00	5,767,151.22	4,841,819.78
Accounts Receivable			
1245 · Property Tax Receivable	266,992.23	266,992.23	0.00
1200 · Wildland Receivable	0.00	32,351.69	-32,351.69
1205 · Other Receivables	3,276.00	164,035.00	-160,759.00
1250 · Ambulance Receivable	258,541.79	258,541.79	0.00
1251 · Allowance for Ambulance Receiv	-151,616.81	-151,616.81	0.00
Total Accounts Receivable	377,193.21	570,303.90	-193,110.69
Other Current Assets			
1733 · Right to Use Subscription	137,459.31	137,459.31	0.00
1732 · Right to Use Vehicles	59,505.76	59,505.76	0.00
1737 · Right to Use Amortization	-38,272.45	-38,272.45	0.00
1270 · Lease Receivable	213,546.00	213,546.00	0.00
1400 · Prepaid Expense	29,284.79	13,726.08	15,558.71
1499 · Undeposited Funds	1,548.00	0.00	1,548.00
Total Other Current Assets	403,071.41	385,964.70	17,106.71
Total Current Assets	11,389,235.62	6,723,419.82	4,665,815.80
Fixed Assets			
1711 · Land - Non-depreciable	257,352.00	257,352.00	0.00
1745 · AD - Equipment	-1,683,339.38	-1,683,339.38	0.00
1735 · AD - Vehicles	-2,499,947.91	-2,499,947.91	0.00
1725 · AD - Building	-2,215,169.14	-2,215,169.14	0.00
1730 · Vehicles	3,041,818.51	2,950,498.83	91,319.68
1740 · Equipment	2,103,284.65	1,989,864.61	113,420.04
1720 · Buildings & Improvements	6,219,894.98	6,146,795.78	73,099.20
Total Fixed Assets	5,223,893.71	4,946,054.79	277,838.92

10:31 AM

08/23/24

Accrual Basis

Tubac Fire District Balance Sheet As of July 31, 2024

	Jul 31, 24	Jul 31, 23	\$ Change
Other Assets			
1960 · Risk Pool Capitalization	25,881.50	25,881.50	0.00
1958 · Net PSPRS OPEB Asset TR 3	3,021.00	3,021.00	0.00
1957 · Net Pension Asset PSPRS TR3	13,736.00	13,736.00	0.00
1918 · Deferred Outflow PSPRS OPEB TR3	787.00	787.00	0.00
1917 · Deferred Outflows PSPRS TR 3	107,462.00	107,462.00	0.00
1956 · Net OPEB Asset	174,407.00	174,407.00	0.00
1916 · Deferred outflow - PSPRS OPEB	8,018.00	8,018.00	0.00
1915 · Deferred outflows - PSPRS	1,387,833.00	1,387,833.00	0.00
Total Other Assets	1,721,145.50	1,721,145.50	0.00
TOTAL ASSETS	18,334,274.83	13,390,620.11	4,943,654.72
LIABILITIES & EQUITY			
Liabilities			
Current Liabilities			
Accounts Payable			
2000 · Accounts Payable	103,609.60	110,094.89	-6,485.29
Total Accounts Payable	103,609.60	110,094.89	-6,485.29
Credit Cards			
2010 · Bank of America Credit Card	342.35	1,044.59	-702.24
Total Credit Cards	342.35	1,044.59	-702.24
Other Current Liabilities			
2070 · Deferred Inflows - Leases	205,965.00	205,965.00	0.00
2316 · Deferred Inflows - PSPRS OPEB	80,824.00	80,824.00	0.00
2318 · Deferred Inflows PSPRS OPEB TR3	164,454.27	164,454.27	0.00
2317 · Deferred Inflows PSPRS TR3	5,433.00	5,433.00	0.00
2230 · Accrued Interest	1,386.14	1,386.14	0.00
2030 · Compensated Absences Payable	112,803.10	140,557.78	-27,754.68
2020 · Accrued Wages	30,484.91	30,484.91	0.00
2315 · Deferred Inflows - PSPRS	583,470.00	583,470.00	0.00
2100 · Payroll Liabilities			
2102 · PSPRS Payable	39,435.57	-12,881.27	52,316.84
2103 · Pension Payable	0.00	100.00	-100.00
2128 · Health Insurance/Vision Ins.	94,610.78	-3,641.83	98,252.61
2140 · Pre-Paid Legal	-176.80	-44.12	-132.68
Total 2100 · Payroll Liabilities	133,869.55	-16,467.22	150,336.77

10:31 AM

08/23/24

Accrual Basis

Tubac Fire District
Balance Sheet
As of July 31, 2024

	Jul 31, 24	Jul 31, 23	\$ Change
2310 · Deferred revenue			
2311 · Deferred Revenue - Grants	-164,157.27	-164,157.27	0.00
Total 2310 · Deferred revenue	-164,157.27	-164,157.27	0.00
Total Other Current Liabilities	1,154,532.70	1,031,950.61	122,582.09
Total Current Liabilities	1,258,484.65	1,143,090.09	115,394.56
Long Term Liabilities			
2321 · 2024 Bonds Payable	4,400,000.00	0.00	4,400,000.00
1738 · SBITA Amortization	24,933.67	24,933.67	0.00
2605 · Subscription Liability	84,756.63	84,756.63	0.00
2335 · F150 Leases Payable	15,062.24	15,062.24	0.00
2330 · Ambulance Lease Payable	59,651.79	88,502.84	-28,851.05
2355 · Net Pension Liability - PSPRS	3,133,079.00	3,133,079.00	0.00
2320 · Bond Payable	1,818,836.37	2,247,641.79	-428,805.42
Total Long Term Liabilities	9,536,319.70	5,593,976.17	3,942,343.53
Total Liabilities	10,794,804.35	6,737,066.26	4,057,738.09
Equity			
3001 · Unrestricted	5,491,556.46	4,726,655.04	764,901.42
3510 · Restricted	-79,899.00	-79,899.00	0.00
3530 · Net Investment in Capital Asset	2,318,091.00	2,318,091.00	0.00
Net Income	-190,277.98	-311,293.19	121,015.21
Total Equity	7,539,470.48	6,653,553.85	885,916.63
TOTAL LIABILITIES & EQUITY	18,334,274.83	13,390,620.11	4,943,654.72

Tubac Fire District
Summary of Reconciled Cash Balances
 Period Ending 07/31/2024

	Bank of America Checking 7/31/2024	Santa Cruz County General Fund 7/31/2024	Bank of America Savings 7/31/2024	Santa Cruz County Bond Account 7/31/2024	LGIP - State Investment Account 7/31/2024
Beginning Balance	1,357,340.01	42,373.42	448,070.39	289,168.54	4,374,586.30
Cleared Transactions					
Checks and Payments	(456,842.35)	(42,373.42)	-	-	-
Deposits and Credits	156,705.34	16,220.79	15.18	5,854.41	19,913.34
Total Cleared Transactions	(300,137.01)	(26,152.63)	15.18	5,854.41	19,913.34
Cleared Balance	1,057,203.00	16,220.79	448,085.57	295,022.95	4,394,499.64
Uncleared Transactions					
Checks and Payments	(2,060.95)	-	-	-	-
Deposits and Credits	-	-	-	-	-
Total Uncleared Transactions	(2,060.95)	-	-	-	-
Register Balance as of 07/31/2024	1,055,142.05	16,220.79	448,085.57	295,022.95	4,394,499.64

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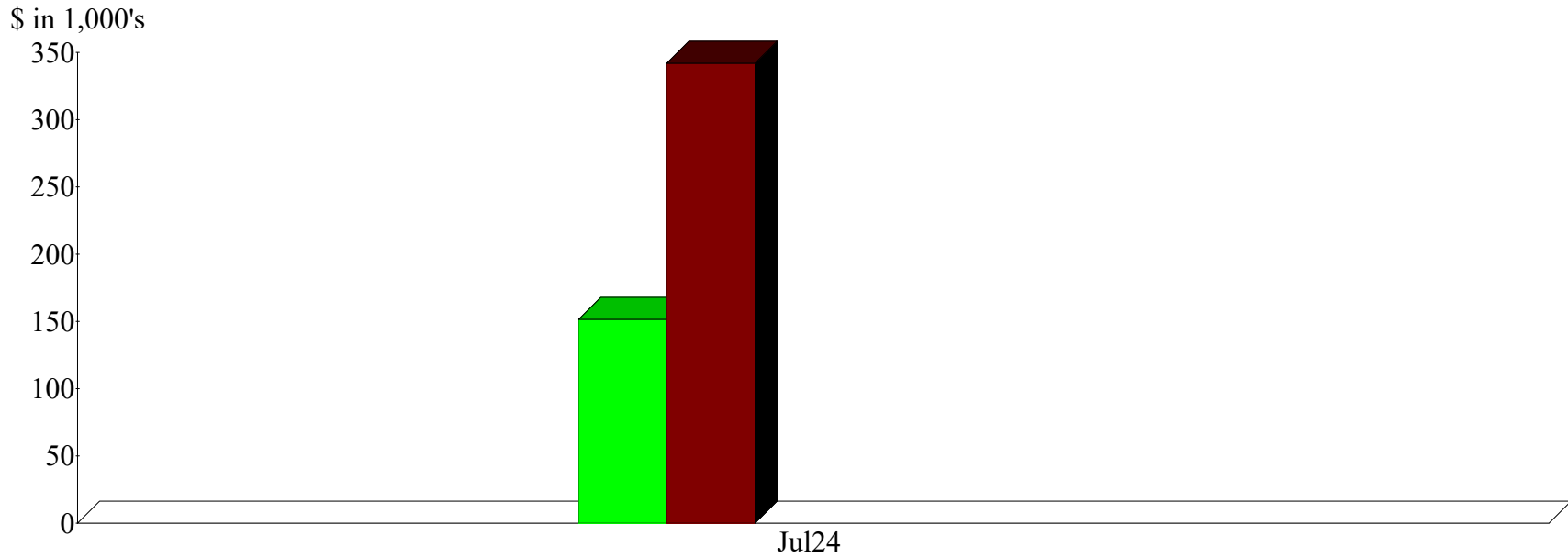
08/23/24

Accrual Basis

Tubac Fire District
Profit & Loss Budget Performance
July 2024

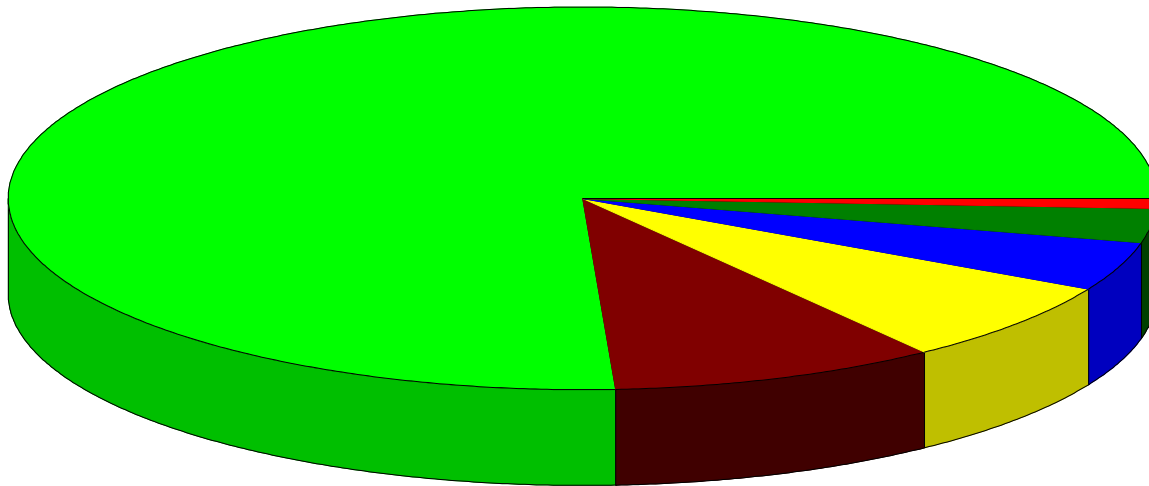
	<u>Jul 24</u>	<u>Budget</u>	<u>\$ Over Budget</u>	<u>Jul 24</u>	<u>YTD Budget</u>	<u>\$ Over Budget</u>	<u>Annual Budget</u>
Ordinary Income/Expense							
Income							
Tax Revenues	21,058.68	6,329.00	14,729.68	21,058.68	6,329.00	14,729.68	3,856,932.00
Non Tax Levy Revenue							
4200 · Miscellaneous Revenue	27,187.70	19,792.00	7,395.70	27,187.70	19,792.00	7,395.70	2,597,440.00
4110 · EMS Revenue	82,640.78	50,833.00	31,807.78	82,640.78	50,833.00	31,807.78	610,000.00
4120 · Wildland Revenue	20,840.04	58,333.00	-37,492.96	20,840.04	58,333.00	-37,492.96	350,000.00
Total Non Tax Levy Revenue	<u>130,668.52</u>	<u>128,958.00</u>	<u>1,710.52</u>	<u>130,668.52</u>	<u>128,958.00</u>	<u>1,710.52</u>	<u>3,557,440.00</u>
Total Income	<u>151,727.20</u>	<u>135,287.00</u>	<u>16,440.20</u>	<u>151,727.20</u>	<u>135,287.00</u>	<u>16,440.20</u>	<u>7,414,372.00</u>
Gross Profit	151,727.20	135,287.00	16,440.20	151,727.20	135,287.00	16,440.20	7,414,372.00
Expense							
Personnel Expenses	259,964.62	306,777.00	-46,812.38	259,964.62	306,777.00	-46,812.38	3,630,817.00
Buildings & Land	14,244.59	21,888.00	-7,643.41	14,244.59	21,888.00	-7,643.41	262,650.00
Vehicles & Equipment	10,111.01	24,291.00	-14,179.99	10,111.01	24,291.00	-14,179.99	291,500.00
Communications & I.T.	31,749.12	12,811.00	18,938.12	31,749.12	12,811.00	18,938.12	153,730.00
Travel & Training	1,448.00	9,458.00	-8,010.00	1,448.00	9,458.00	-8,010.00	92,500.00
Managerial Expenses	24,487.84	29,607.00	-5,119.16	24,487.84	29,607.00	-5,119.16	250,675.00
Grant Expenses	0.00	0.00	0.00	0.00	0.00	0.00	382,940.00
Total Expense	<u>342,005.18</u>	<u>404,832.00</u>	<u>-62,826.82</u>	<u>342,005.18</u>	<u>404,832.00</u>	<u>-62,826.82</u>	<u>5,064,812.00</u>
Net Ordinary Income	<u>-190,277.98</u>	<u>-269,545.00</u>	<u>79,267.02</u>	<u>-190,277.98</u>	<u>-269,545.00</u>	<u>79,267.02</u>	<u>2,349,560.00</u>
Net Income	<u><u>-190,277.98</u></u>	<u><u>-269,545.00</u></u>	<u><u>79,267.02</u></u>	<u><u>-190,277.98</u></u>	<u><u>-269,545.00</u></u>	<u><u>79,267.02</u></u>	<u><u>2,349,560.00</u></u>

Income and Expense by Month
July 2024



Expense Summary
July 2024

Personnel Expenses	76.01%
Communications & I.T.	9.28
Managerial Expenses	7.16
Buildings & Land	4.17
Vehicles & Equipment	2.96
Travel & Training	0.42
Total	\$342,005.18



By Account

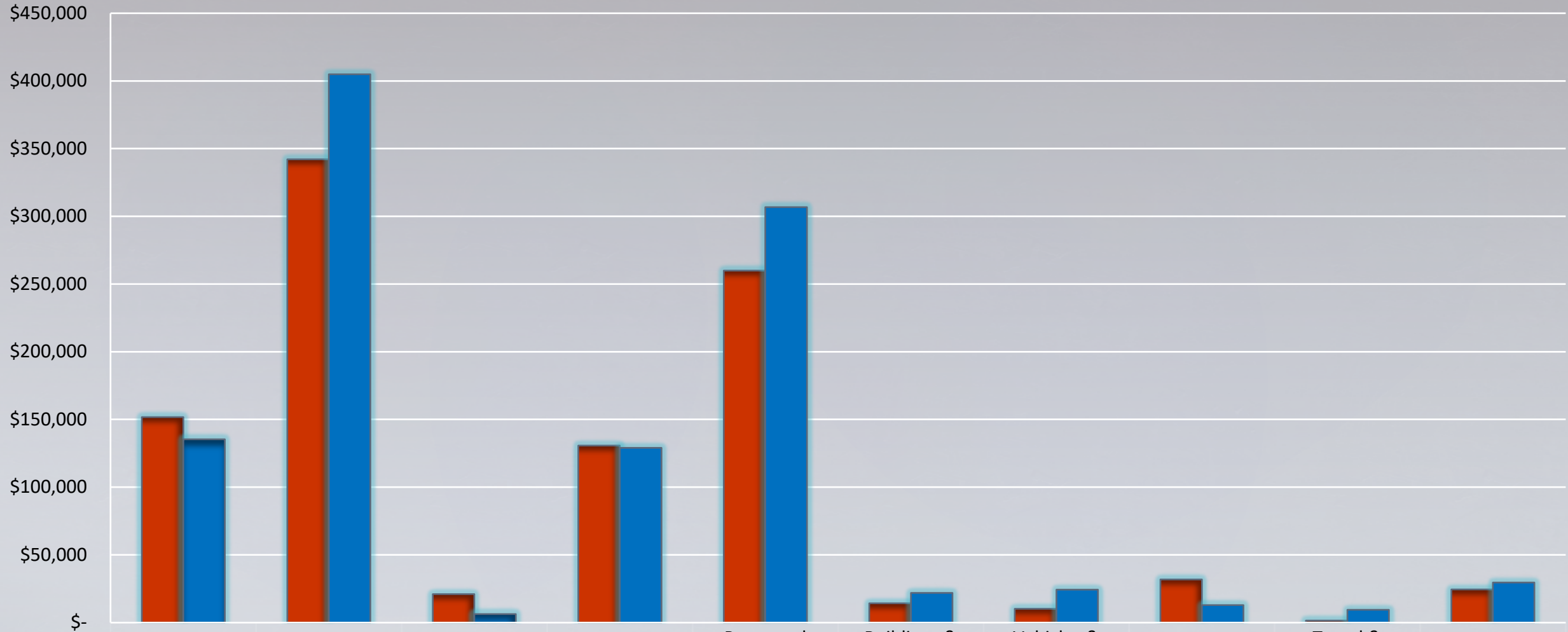
TUBAC FIRE DISTRICT
Liabilities and Securities - FY24/25

LIABILITIES						
Description	TOTAL PRICE	CURRENT BALANCE	INTEREST RATE	FY24/25 PAYMENTS	NEXT PAYMENT	DATE OF PAYOFF
Bond	\$6,795,000.00	\$1,818,836.37	2.36%	\$481,849.77	1/1/2025	7/1/2028
2024 Bond Payable	\$4,400,000.00	\$4,400,000.00	5.00%	\$104,910.42	1/1/2025	7/1/2043
Lease Payable	\$195,131.69	\$59,651.79	3.71%	\$32,134.51	2/1/2025	2/1/2026
Net Pension Liability - PSPRS		\$3,133,079.00				
F150 Lease Payable		\$15,062.24				
Totals		\$9,426,629.40		\$618,894.70		

SECURITIES				
Broker	CUSIP #	Description	Market Value	Maturity Date
		Totals	\$0.00	

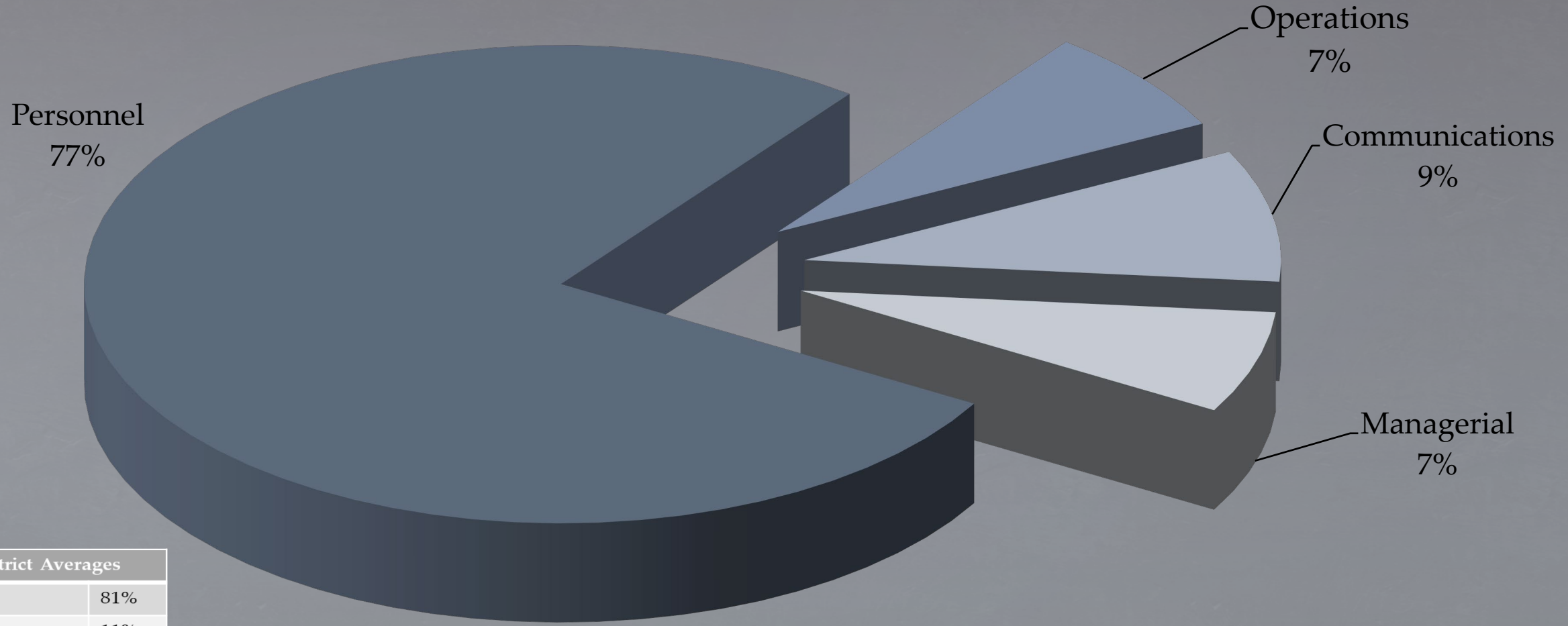
☞ Net balance owed = **\$9,426,629.40**

July 2024



	Total Revenue	Total Expense	Tax Levy	Non-Tax Levy	Personnel Expenses	Buildings & Land	Vehicles & Equipment	Comm & IT	Travel & Training	Managerial
Actual	\$151,727	\$342,005	\$21,059	\$130,669	\$259,965	\$14,245	\$10,111	\$31,749	\$1,448	\$24,488
Budget	\$135,287	\$404,832	\$6,329	\$128,958	\$306,777	\$21,888	\$24,291	\$12,811	\$9,458	\$29,607
Variance	16,440	(62,827)	14,730	1,711	(46,812)	(7,643)	(14,180)	18,938	(8,010)	(5,119)

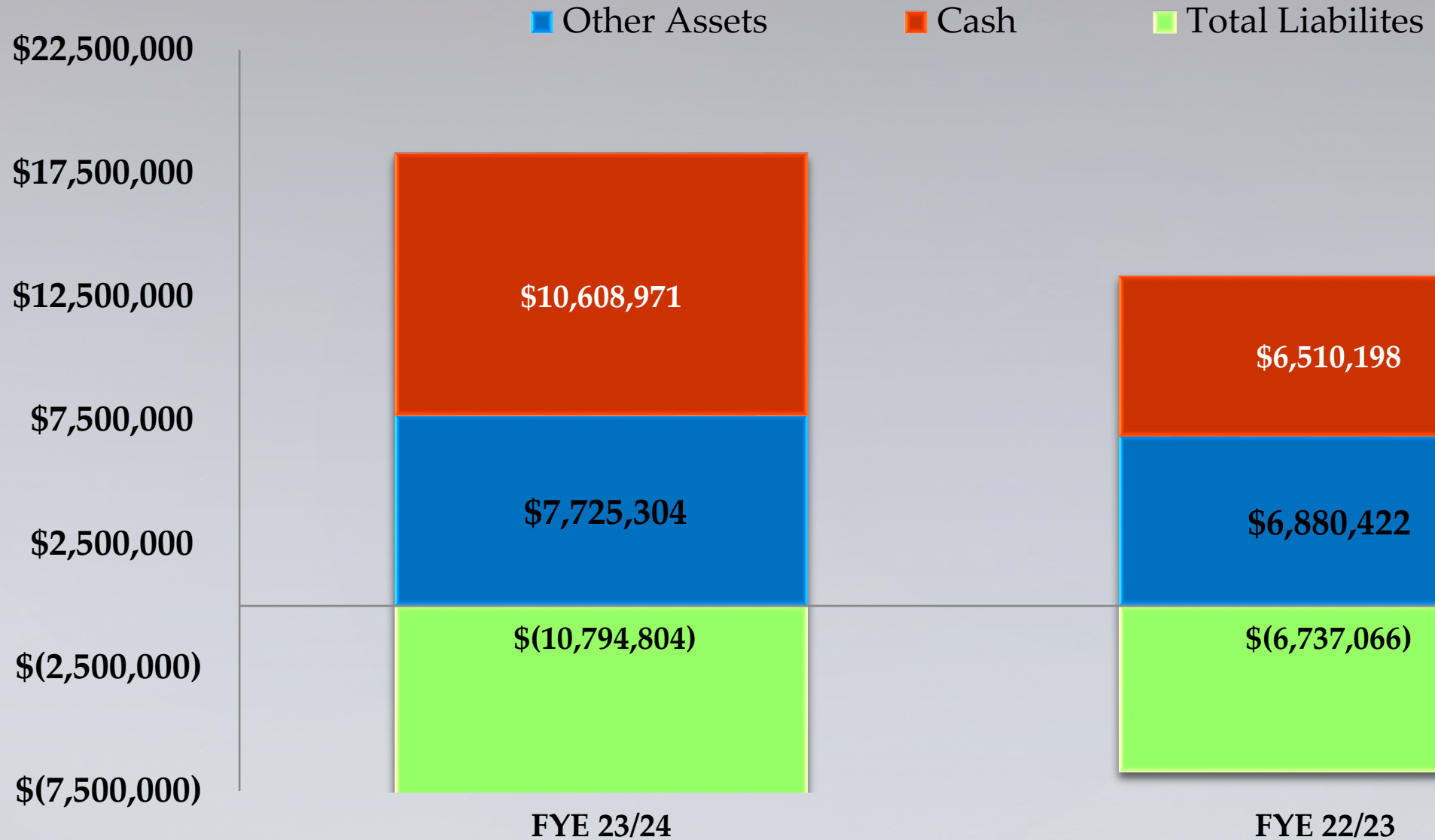
Percentage of Expenses Year to Date



Fire District Averages

Personnel	81%
Operations	11%
Communications	2%
Administrative	6%

Cash Position



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08/22/24

Accrual Basis

Tubac Fire District
Fleet Repairs & Maintenance
July 2024

<u>Date</u>	<u>Source Name</u>	<u>Memo</u>	<u>Amount</u>
Ambulance 1055			
07/24/2024	Larry H Miller	Oil Filter change, Replace Crank Case Ventilatio...	1,964.92
Total Ambulance 1055			1,964.92
Apparatus			
Ambulance 1034			
07/24/2024	Barnett's Towing Service	Towing Unit # 1034 in 07/24/24	1,075.25
Total Ambulance 1034			1,075.25
Brush 1048			
07/27/2024	Jones Ford	2 New tires for unit 1048	1,003.37
Total Brush 1048			1,003.37
Total Apparatus			2,078.62
TOTAL			<u>4,043.54</u>

Tubac Fire District Station Utilities, Supplies, and Repairs & Maintenance July 2024

Date	Source Name	Memo	Amount
Stations			
Station 1			
07/10/2024	EPCOR	Water bill For June 2024	34.76
07/10/2024	Century Link 333219165	Monthly Fax and 911 Emergency Call Box Service	179.84
07/17/2024	Unisource Energy Services (Gas)	Gas Bill for 06/17/24 - 07/16/24 2227 E. Frontage Rd	21.38
07/17/2024	Unisource Energy Services (Gas)	Gas Bill for 06/17/24 - 07/16/24 2227 E. Frontage Rd	21.38
07/19/2024	Direct TV - 9236	TV Current Charges for Service Period 07/18/24 - 08/17...	164.98
07/30/2024	John Schwamm	Remove existing Cameras from station 1 and reinstall at ...	600.00
07/31/2024	Waste Management of Tucson	Trash Service for 2227 E. Frontage Rd from 08/01/24 - 0...	255.34
Total Station 1			1,277.68
Station 2			
07/01/2024	Central Alarm	Access Control Full Service, 07/01/24 - 07/30/24	60.00
07/10/2024	Century Link 333222406	Monthly Fax Service	61.83
07/11/2024	Terminix	Commercial Pest Control Location: 1360 W. Frontage ...	60.00
07/11/2024	Liberty Utilities AZ A/C 200007327162	Water Service	321.11
07/23/2024	Unisource Energy Services (Electric)	2227 E. frontage 06/17/24 - 07/17/24	235.71
07/23/2024	Unisource Energy Services (Electric)	563	1,220.31
07/28/2024	Direct TV - 9885	Direct TV Current Charges for Service Period 07/27/24 ...	152.99
07/31/2024	Waste Management of Tucson	Trash Service for 1360 W. Frontage Rd from 08/01/24 - ...	691.73
Total Station 2			2,803.68
Station 3			
07/03/2024	Direct TV - 0393	Direct TV Current Charges for Service Period 07/02/24 ...	172.98
07/11/2024	Terminix	Commercial Pest Control Location: 1360 W. Frontage ...	149.00
07/15/2024	Empire Southwest, LLC	Troubleshoot engine and Generator	619.45
07/17/2024	Rio Rico Sanitation 85133	6 YRD ONCE A WEEK Aug 20	255.00
07/30/2024	Applied Rite Doors & docks, Inc.	Bifold door stuck open Align photo eyes	390.00
Total Station 3			1,586.43
Station 4			
07/06/2024	Direct TV - 2827	Direct TV Current Charges for Service Period 07/05/24 ...	172.98
07/11/2024	Terminix	Commercial Pest Control Location: 1360 W. Frontage ...	152.00
07/15/2024	Empire Southwest, LLC	Troubleshoot engine & Generator	619.45
07/17/2024	Rio Rico Sanitation 84863	6 YRD ONCE A WEEK for08/01/24 - 08/031/24	255.00
07/30/2024	BUSTAMANTE REFRIGERATION, L.L.C.	Replaced Blower Motor and Run Cap and Control Board ...	1,052.16
Total Station 4			2,251.59
Total Stations			7,919.38
TOTAL			7,919.38

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 Accrual Basis

Tubac Fire District
Monthly Transaction Report
 July 2024

Type	Date	Num	Name	Memo	Amount	Balance
1133 · LGIP - State Investment Account						
Deposit	07/31/2024			Interest	19,913.34	19,913.34
Total 1133 · LGIP - State Investment Account					19,913.34	19,913.34
1072 · Bill.com Money Out Clearing						
Bill Pmt -...	07/01/2024	Bill.com	Unisource Energy Services (Elect...	https://app01...	-225.85	-225.85
Bill Pmt -...	07/01/2024	Bill.com	Unisource Energy Services (Elect...	https://app01...	-687.66	-913.51
Bill Pmt -...	07/01/2024	Bill.com	Century Link 333219165	https://app01...	-206.00	-1,119.51
Bill Pmt -...	07/01/2024	Bill.com	Unisource Energy Services (Gas)	https://app01...	-21.38	-1,140.89
Bill Pmt -...	07/01/2024	Bill.com	Terminix	https://app01...	-60.00	-1,200.89
Bill Pmt -...	07/01/2024	Bill.com	Terminix	https://app01...	-152.00	-1,352.89
Bill Pmt -...	07/01/2024	Bill.com	Simply Bits, LLC	https://app01...	-658.44	-2,011.33
Bill Pmt -...	07/01/2024	Bill.com	Rio Rico Sanitation 85133	https://app01...	-510.00	-2,521.33
Bill Pmt -...	07/01/2024	Bill.com	Simply Bits, LLC	https://app01...	-559.52	-3,080.85
Bill Pmt -...	07/01/2024	Bill.com	Direct TV - 9236	https://app01...	-164.98	-3,245.83
Bill Pmt -...	07/01/2024	Bill.com	Simply Bits, LLC	https://app01...	-556.90	-3,802.73
Bill Pmt -...	07/01/2024	Bill.com	Municipal Emergency Services	https://app01...	-4,132.78	-7,935.51
Bill Pmt -...	07/01/2024	Bill.com	Nextrio, LLC	https://app01...	-2,024.81	-9,960.32
Bill Pmt -...	07/01/2024	Bill.com	Unisource Energy Services (Elect...	https://app01...	-1,544.40	-11,504.72
Bill Pmt -...	07/01/2024	Bill.com	Century Link 333222406	https://app01...	-69.68	-11,574.40
Bill Pmt -...	07/01/2024	Bill.com	Terminix	https://app01...	-60.00	-11,634.40
Bill Pmt -...	07/01/2024	Bill.com	Rio Rico Sanitation 84863	https://app01...	-510.00	-12,144.40
Bill Pmt -...	07/01/2024	Bill.com	Terminix	https://app01...	-149.00	-12,293.40
Bill Pmt -...	07/01/2024	Bill.com	Unisource Energy Services (Gas)	https://app01...	-22.13	-12,315.53
Bill Pmt -...	07/01/2024	Bill.com	Simply Bits, LLC	https://app01...	-874.12	-13,189.65
General J...	07/01/2024	2023-...		BILL 07/01/2...	13,189.65	0.00
Bill Pmt -...	07/05/2024	Bill.com	Nogales Tactical LLC*	https://app01...	-410.51	-410.51
Bill Pmt -...	07/05/2024	Bill.com	Nogales Tactical LLC*	https://app01...	-78.19	-488.70
Bill Pmt -...	07/05/2024	Bill.com	Waste Management of Tucson	https://app01...	-255.52	-744.22
Bill Pmt -...	07/05/2024	Bill.com	Unisource Energy Services (Elect...	https://app01...	-1,054.00	-1,798.22
Bill Pmt -...	07/05/2024	Bill.com	Nogales Tactical LLC*	https://app01...	-74.93	-1,873.15

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 Accrual Basis

Tubac Fire District
Monthly Transaction Report
 July 2024

Type	Date	Num	Name	Memo	Amount	Balance
Bill Pmt -...	07/05/2024	Bill.com	Nogales Tactical LLC*	https://app01...	-659.75	-2,532.90
Bill Pmt -...	07/05/2024	Bill.com	Great America Leasing Corp.	https://app01...	-217.68	-2,750.58
Bill Pmt -...	07/05/2024	Bill.com	Nogales Tactical LLC*	https://app01...	-659.75	-3,410.33
Bill Pmt -...	07/05/2024	Bill.com	Nogales Tactical LLC*	https://app01...	-156.38	-3,566.71
Bill Pmt -...	07/05/2024	Bill.com	Nogales Tactical LLC*	https://app01...	-234.58	-3,801.29
Bill Pmt -...	07/05/2024	Bill.com	Nogales Tactical LLC*	https://app01...	-338.83	-4,140.12
Bill Pmt -...	07/05/2024	Bill.com	Streamline	https://app01...	-500.00	-4,640.12
Bill Pmt -...	07/05/2024	Bill.com	Nogales Tactical LLC*	https://app01...	-38.01	-4,678.13
Bill Pmt -...	07/05/2024	Bill.com	Nogales Tactical LLC*	https://app01...	-71.68	-4,749.81
Bill Pmt -...	07/05/2024	Bill.com	Nogales Tactical LLC*	https://app01...	-135.75	-4,885.56
Bill Pmt -...	07/05/2024	Bill.com	Nogales Tactical LLC*	https://app01...	-533.77	-5,419.33
Bill Pmt -...	07/05/2024	Bill.com	MetLife	https://app01...	-1,569.09	-6,988.42
Bill Pmt -...	07/05/2024	Bill.com	Waste Management of Tucson	https://app01...	-241.73	-7,230.15
Bill Pmt -...	07/05/2024	Bill.com	The Mahoney Group	https://app01...	-703.00	-7,933.15
Bill Pmt -...	07/05/2024	Bill.com	Nogales Tactical LLC*	https://app01...	-683.64	-8,616.79
Bill Pmt -...	07/05/2024	Bill.com	Direct TV - 9885	https://app01...	-152.99	-8,769.78
General J...	07/05/2024	2023-...		BILL 07/05/2...	8,769.78	0.00
Bill Pmt -...	07/09/2024	Bill.com	J1 Plumbing	https://app01...	-885.00	-885.00
Bill Pmt -...	07/09/2024	Bill.com	J1 Plumbing	https://app01...	-835.00	-1,720.00
Bill Pmt -...	07/09/2024	Bill.com	J1 Plumbing	https://app01...	-785.00	-2,505.00
Bill Pmt -...	07/09/2024	Bill.com	Bound Tree	https://app01...	-488.79	-2,993.79
Bill Pmt -...	07/09/2024	Bill.com	Dreamseat	https://app01...	-1,693.20	-4,686.99
Bill Pmt -...	07/09/2024	Bill.com	Ricardo Rodriguez*	https://app01...	-16.79	-4,703.78
Bill Pmt -...	07/09/2024	Bill.com	PIMA COMMUNITY COLLEGE	https://app01...	-16,700.00	-21,403.78
Bill Pmt -...	07/09/2024	Bill.com	Unisource Energy Services (Elect...	https://app01...	-1,541.75	-22,945.53
General J...	07/09/2024	2023-...		BILL 07/09/2...	22,945.53	0.00
Bill Pmt -...	07/12/2024	Bill.com	Advanced Technical Services	https://app01...	-2,662.50	-2,662.50
General J...	07/12/2024	2023-...		BILL 07/12/2...	2,662.50	0.00
Bill Pmt -...	07/16/2024	Bill.com	Verizon	https://app01...	-468.75	-468.75
Bill Pmt -...	07/16/2024	Bill.com	Valley Imaging Solutions Inc.	https://app01...	-51.46	-520.21
Bill Pmt -...	07/16/2024	Bill.com	Direct TV - 2827	https://app01...	-172.98	-693.19
Bill Pmt -...	07/16/2024	Bill.com	Liberty Utilities AZ A/C 20000732...	https://app01...	-200.25	-893.44

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 Accrual Basis

Tubac Fire District
Monthly Transaction Report
 July 2024

Type	Date	Num	Name	Memo	Amount	Balance
Bill Pmt -...	07/16/2024	Bill.com	Verizon	https://app01...	-600.15	-1,493.59
Bill Pmt -...	07/16/2024	Bill.com	Streamline	https://app01...	-500.00	-1,993.59
Bill Pmt -...	07/16/2024	Bill.com	Nextrio, LLC	https://app01...	-711.72	-2,705.31
Bill Pmt -...	07/16/2024	Bill.com	CenturyLink	https://app01...	-0.46	-2,705.77
Bill Pmt -...	07/16/2024	Bill.com	Santa Cruz County Landfill	https://app01...	-32.85	-2,738.62
Bill Pmt -...	07/16/2024	Bill.com	Nextrio, LLC	https://app01...	-4,517.00	-7,255.62
Bill Pmt -...	07/16/2024	Bill.com	Valley Imaging Solutions Inc.	https://app01...	-18.76	-7,274.38
Bill Pmt -...	07/16/2024	Bill.com	Human Resource Strategies	https://app01...	-500.00	-7,774.38
Bill Pmt -...	07/16/2024	Bill.com	Modular Solutions	https://app01...	-800.00	-8,574.38
Bill Pmt -...	07/16/2024	Bill.com	Liberty Utilities AZ A/C 20000732...	https://app01...	-570.85	-9,145.23
Bill Pmt -...	07/16/2024	Bill.com	Central Alarm	https://app01...	-60.00	-9,205.23
Bill Pmt -...	07/16/2024	Bill.com	James Vincent Group	https://app01...	-6,200.00	-15,405.23
General J...	07/16/2024	2023-...		BILL 07/16/2...	15,405.23	0.00
Bill Pmt -...	07/18/2024	Bill.com	Green Valley Fire District	https://app01...	-391.00	-391.00
Bill Pmt -...	07/18/2024	Bill.com	Quill Corporation	https://app01...	-239.74	-630.74
Bill Pmt -...	07/18/2024	Bill.com	J2 Laboratories	https://app01...	-28.00	-658.74
Bill Pmt -...	07/18/2024	Bill.com	Pima County Fire Chief Association	https://app01...	-150.00	-808.74
Bill Pmt -...	07/18/2024	Bill.com	Ohana Direct Primary Care, LLC	https://app01...	-28,000.00	-28,808.74
Bill Pmt -...	07/18/2024	Bill.com	Valley Imaging Solutions Inc.	https://app01...	-79.51	-28,888.25
General J...	07/18/2024	2023-...		BILL 07/18/2...	28,888.25	0.00
Bill Pmt -...	07/29/2024	Bill.com	Bound Tree	https://app01...	-3,197.20	-3,197.20
Bill Pmt -...	07/29/2024	Bill.com	Nogales Tactical LLC*	https://app01...	-228.06	-3,425.26
Bill Pmt -...	07/29/2024	Bill.com	Verizon	https://app01...	-100.08	-3,525.34
Bill Pmt -...	07/29/2024	Bill.com	Nogales Tactical LLC*	https://app01...	-95.57	-3,620.91
Bill Pmt -...	07/29/2024	Bill.com	Holy Cross Hospital Pharmacy	https://app01...	-4.50	-3,625.41
Bill Pmt -...	07/29/2024	Bill.com	Terminix	https://app01...	-149.00	-3,774.41
Bill Pmt -...	07/29/2024	Bill.com	Nogales Tactical LLC*	https://app01...	-32.58	-3,806.99
Bill Pmt -...	07/29/2024	Bill.com	Terminix	https://app01...	-60.00	-3,866.99
Bill Pmt -...	07/29/2024	Bill.com	Direct TV - 0393	https://app01...	-172.98	-4,039.97
Bill Pmt -...	07/29/2024	Bill.com	Terminix	https://app01...	-152.00	-4,191.97
Bill Pmt -...	07/29/2024	Bill.com	Nogales Tactical LLC*	https://app01...	-484.36	-4,676.33
Bill Pmt -...	07/29/2024	Bill.com	Nogales Tactical LLC*	https://app01...	-38.01	-4,714.34

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Accrual Basis

Tubac Fire District
Monthly Transaction Report
July 2024

Type	Date	Num	Name	Memo	Amount	Balance
Bill Pmt -...	07/29/2024	Bill.com	Legal Shield	https://app01...	-233.35	-4,947.69
Bill Pmt -...	07/29/2024	Bill.com	Voyager Fleet Systems Inc	https://app01...	-5,613.86	-10,561.55
Bill Pmt -...	07/29/2024	Bill.com	Nogales Tactical LLC*	https://app01...	-193.31	-10,754.86
Bill Pmt -...	07/29/2024	Bill.com	Nogales Tactical LLC*	https://app01...	-301.91	-11,056.77
Bill Pmt -...	07/29/2024	Bill.com	Canyon State Wireless	https://app01...	-32,846.31	-43,903.08
Bill Pmt -...	07/29/2024	Bill.com	Nogales Tactical LLC*	https://app01...	-410.86	-44,313.94
Bill Pmt -...	07/29/2024	Bill.com	Unisource Energy Services (Gas)	https://app01...	-21.38	-44,335.32
Bill Pmt -...	07/29/2024	Bill.com	Unisource Energy Services (Gas)	https://app01...	-21.38	-44,356.70
Bill Pmt -...	07/29/2024	Bill.com	Linde Gas & Equipment Inc.	https://app01...	-215.10	-44,571.80
Bill Pmt -...	07/29/2024	Bill.com	EPCOR	https://app01...	-34.76	-44,606.56
Bill Pmt -...	07/29/2024	Bill.com	Bound Tree	https://app01...	-439.56	-45,046.12
Bill Pmt -...	07/29/2024	Bill.com	Nogales Tactical LLC*	https://app01...	-156.38	-45,202.50
Bill Pmt -...	07/29/2024	Bill.com	Nogales Tactical LLC*	https://app01...	-32.58	-45,235.08
Bill Pmt -...	07/29/2024	Bill.com	Rio Rico Sanitation 84863	https://app01...	-255.00	-45,490.08
Bill Pmt -...	07/29/2024	Bill.com	Nogales Tactical LLC*	https://app01...	-103.17	-45,593.25
Bill Pmt -...	07/29/2024	Bill.com	Nogales Tactical LLC*	https://app01...	-78.19	-45,671.44
Bill Pmt -...	07/29/2024	Bill.com	Nogales Tactical LLC*	https://app01...	-32.58	-45,704.02
Bill Pmt -...	07/29/2024	Bill.com	Senergy Petroleum	https://app01...	-2,024.69	-47,728.71
Bill Pmt -...	07/29/2024	Bill.com	3am Innovations, Inc	https://app01...	-45,273.02	-93,001.73
Bill Pmt -...	07/29/2024	Bill.com	Napa Auto Parts	https://app01...	-493.97	-93,495.70
Bill Pmt -...	07/29/2024	Bill.com	AKM Builders	https://app01...	-14,730.00	-108,225.70
Bill Pmt -...	07/29/2024	Bill.com	Rio Rico Sanitation 85133	https://app01...	-255.00	-108,480.70
Bill Pmt -...	07/29/2024	Bill.com	Linde Gas & Equipment Inc.	https://app01...	-799.21	-109,279.91
Bill Pmt -...	07/29/2024	Bill.com	Linde Gas & Equipment Inc.	https://app01...	-601.53	-109,881.44
Bill Pmt -...	07/29/2024	Bill.com	Fry Fire District*	https://app01...	-1,795.76	-111,677.20
Bill Pmt -...	07/29/2024	Bill.com	United Fire Equipment Co.	https://app01...	-1,337.37	-113,014.57
Bill Pmt -...	07/29/2024	Bill.com	Direct TV - 9236	https://app01...	-164.98	-113,179.55
Bill Pmt -...	07/29/2024	Bill.com	Century Link 333219165	https://app01...	-179.84	-113,359.39
Bill Pmt -...	07/29/2024	Bill.com	Liberty Utilities AZ A/C 20000732...	https://app01...	-321.11	-113,680.50
Bill Pmt -...	07/29/2024	Bill.com	Nogales Tactical LLC*	https://app01...	-24.98	-113,705.48
Bill Pmt -...	07/29/2024	Bill.com	Waxie Sanitary Supply	https://app01...	-457.70	-114,163.18
Bill Pmt -...	07/29/2024	Bill.com	United Fire Equipment Co.	https://app01...	-54.77	-114,217.95

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08/22/24
Accrual Basis

Tubac Fire District
Monthly Transaction Report
July 2024

Type	Date	Num	Name	Memo	Amount	Balance
Bill Pmt -...	07/29/2024	Bill.com	Nogales Tactical LLC*	https://app01...	-301.91	-114,519.86
Bill Pmt -...	07/29/2024	Bill.com	Handtevy	https://app01...	-2,353.84	-116,873.70
Bill Pmt -...	07/29/2024	Bill.com	Nogales Tactical LLC*	https://app01...	-139.01	-117,012.71
General J...	07/29/2024	2023-...		BILL 07/29/2...	117,012.71	0.00
Bill Pmt -...	07/30/2024	Bill.com	Simply Bits, LLC	https://app01...	-562.03	-562.03
Bill Pmt -...	07/30/2024	Bill.com	Simply Bits, LLC	https://app01...	-558.85	-1,120.88
Bill Pmt -...	07/30/2024	Bill.com	Simply Bits, LLC	https://app01...	-876.80	-1,997.68
Bill Pmt -...	07/30/2024	Bill.com	Simply Bits, LLC	https://app01...	-125.00	-2,122.68
Bill Pmt -...	07/30/2024	Bill.com	Simply Bits, LLC	https://app01...	-661.22	-2,783.90
General J...	07/30/2024	2023-...		BILL 07/30/2...	2,783.90	0.00
General J...	07/31/2024	2023-...			590.65	590.65
Total 1072 · Bill.com Money Out Clearing					590.65	590.65
1127 · Cash with County Treasurer						
Deposit	07/10/2024	52258		County chec...	-42,373.42	-42,373.42
General J...	07/31/2024	2023-...		to record pro...	16,017.18	-26,356.24
Deposit	07/31/2024			Interest	203.61	-26,152.63
Total 1127 · Cash with County Treasurer					-26,152.63	-26,152.63
1129 · Operational						
General J...	07/01/2024	2023-...		BILL 07/01/2...	-13,189.65	-13,189.65
Deposit	07/01/2024			Deposit	1,170.08	-12,019.57
Deposit	07/01/2024			Deposit	2,830.12	-9,189.45
Check	07/01/2024	ACH	PUBLIC SAFETY PERSONAL R...	Pay Period ...	-18,872.09	-28,061.54
Deposit	07/02/2024			Deposit	20,840.04	-7,221.50
Check	07/02/2024		Bank of America	Merchant Se...	-794.83	-8,016.33
Deposit	07/03/2024			Deposit	831.23	-7,185.10
Deposit	07/03/2024			Deposit	164.48	-7,020.62
Deposit	07/03/2024			Deposit	3,306.76	-3,713.86
Deposit	07/03/2024			Deposit	1,141.36	-2,572.50
Deposit	07/03/2024			Deposit	4,215.60	1,643.10

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 08/22/24
 Accrual Basis

Tubac Fire District
Monthly Transaction Report
 July 2024

Type	Date	Num	Name	Memo	Amount	Balance
General J...	07/05/2024	2023-...		BILL 07/05/2...	-8,769.78	-7,126.68
Deposit	07/05/2024			Deposit	1,835.13	-5,291.55
Deposit	07/05/2024			Deposit	2,367.54	-2,924.01
Check	07/05/2024	ACH	Aetna	July 2024- Bi...	-19,769.12	-22,693.13
Deposit	07/08/2024			Deposit	3,523.96	-19,169.17
Deposit	07/08/2024			Deposit	120.00	-19,049.17
Deposit	07/08/2024			Deposit	15,180.12	-3,869.05
Deposit	07/08/2024			Deposit	453.28	-3,415.77
Check	07/08/2024	EFT	Bill.com		-199.75	-3,615.52
General J...	07/09/2024	2023-...		BILL 07/09/2...	-22,945.53	-26,561.05
Deposit	07/09/2024			Deposit	456.14	-26,104.91
Deposit	07/09/2024			Deposit	1,893.69	-24,211.22
Deposit	07/09/2024			Deposit	30.38	-24,180.84
Deposit	07/09/2024			Deposit	1.40	-24,179.44
Deposit	07/10/2024			Deposit	46,736.23	22,556.79
Deposit	07/10/2024			Deposit	5,789.31	28,346.10
Check	07/10/2024				-3,255.59	25,090.51
Check	07/11/2024	26068	Security Benefit	Pay Period ...	-75.00	25,015.51
Check	07/11/2024	26069	Green Valley F.F.A.	Pay Period ...	-324.00	24,691.51
Deposit	07/11/2024			Deposit	320.53	25,012.04
Deposit	07/11/2024			Deposit	2,625.95	27,637.99
General J...	07/12/2024	2023-...		BILL 07/12/2...	-2,662.50	24,975.49
General J...	07/12/2024	2023-...			-62,504.38	-37,528.89
General J...	07/12/2024	2023-...			-733.57	-38,262.46
General J...	07/12/2024	2023-...			-11,794.85	-50,057.31
General J...	07/12/2024	2023-...			-402.25	-50,459.56
General J...	07/12/2024	2023-...			-14,022.30	-64,481.86
Check	07/15/2024	ACH	Nationwide Retirement Solutions	Pay Period ...	-1,215.24	-65,697.10
Check	07/15/2024	ACH	Nationwide Retirement Solutions	Pay Period ...	-2,166.92	-67,864.02
Deposit	07/15/2024			Deposit	7,352.96	-60,511.06
General J...	07/16/2024	2023-...		BILL 07/16/2...	-15,405.23	-75,916.29
Deposit	07/16/2024			Deposit	2,743.49	-73,172.80

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08/22/24
Accrual Basis

Tubac Fire District
Monthly Transaction Report
July 2024

Type	Date	Num	Name	Memo	Amount	Balance
General J...	07/16/2024	2023-...		FDMS Pymt	-42.93	-73,215.73
Check	07/17/2024	ACH	Aflac	INVOICE# 4...	-216.72	-73,432.45
Deposit	07/17/2024			Deposit	149.38	-73,283.07
Deposit	07/17/2024			Deposit	492.22	-72,790.85
General J...	07/18/2024	2023-...		BILL 07/18/2...	-28,888.25	-101,679.10
Deposit	07/19/2024			Deposit	127.29	-101,551.81
Deposit	07/22/2024			Deposit	350.00	-101,201.81
Check	07/23/2024	ACH	PUBLIC SAFETY PERSONAL R...	Pay Period ...	-21,618.77	-122,820.58
Deposit	07/24/2024			Deposit	8,044.79	-114,775.79
Deposit	07/24/2024			Deposit	1,970.53	-112,805.26
Deposit	07/24/2024			Deposit	2,188.85	-110,616.41
Deposit	07/24/2024			Deposit	150.00	-110,466.41
Check	07/25/2024	26070	Lopez, Anthony	Reimburse...	-213.49	-110,679.90
Deposit	07/25/2024			Deposit	100.00	-110,579.90
Deposit	07/25/2024			Deposit	5,659.91	-104,919.99
General J...	07/26/2024	2023-...			-63,746.29	-168,666.28
General J...	07/26/2024	2023-...			-748.09	-169,414.37
General J...	07/26/2024	2023-...			-12,858.60	-182,272.97
General J...	07/26/2024	2023-...			-414.55	-182,687.52
General J...	07/26/2024	2023-...			-3,172.30	-185,859.82
General J...	07/26/2024	2023-...			-738.94	-186,598.76
General J...	07/26/2024	2023-...			-110.15	-186,708.91
General J...	07/26/2024	2023-...			-208.09	-186,917.00
Check	07/29/2024	EFT			-4,119.51	-191,036.51
General J...	07/29/2024	2023-...		BILL 07/29/2...	-117,012.71	-308,049.22
Deposit	07/29/2024			Deposit	1,149.44	-306,899.78
Deposit	07/29/2024			Deposit	1,371.01	-305,528.77
Deposit	07/29/2024			Deposit	1,792.23	-303,736.54
Deposit	07/29/2024			Deposit	290.00	-303,446.54
Check	07/30/2024	26071	Security Benefit	Pay Period 7...	-75.00	-303,521.54
Check	07/30/2024	26072	Green Valley F.F.A.	Pay Period ...	-342.00	-303,863.54
General J...	07/30/2024	2023-...		BILL 07/30/2...	-2,783.90	-306,647.44

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 08/22/24
 Accrual Basis

Tubac Fire District
 Monthly Transaction Report
 July 2024

Type	Date	Num	Name	Memo	Amount	Balance
Deposit	07/30/2024			Deposit	4,212.82	-302,434.62
Check	07/30/2024	ACH	Public Safety Cancer Insurance	PSPRS Can...	-1,150.00	-303,584.62
Deposit	07/30/2024			Deposit	1,250.00	-302,334.62
Deposit	07/30/2024			Deposit	993.16	-301,341.46
Deposit	07/30/2024			Deposit	238.07	-301,103.39
Deposit	07/31/2024			Deposit	245.86	-300,857.53
Total 1129 · Operational					-300,857.53	-300,857.53
1130 · Savings Acct.						
Deposit	07/28/2024			Interest	15.18	15.18
Total 1130 · Savings Acct.					15.18	15.18
1131 · Bond Account						
General J...	07/31/2024	2023-...		to record pro...	5,041.50	5,041.50
Deposit	07/31/2024			Interest	812.91	5,854.41
Total 1131 · Bond Account					5,854.41	5,854.41
TOTAL					-300,636.58	-300,636.58



Breckenridge
g r o u p
a r c h i t e c t s
p l a n n e r s

1735 e ft. lowell rd. #12
tucson arizona 85719
5 2 0 . 8 8 2 . 9 9 4 4

Tubac Fire Station #1

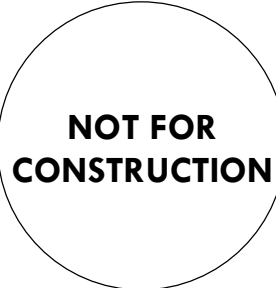
2227 I-19 Frontage Rd., Tubac, Arizona 85646

Intermediate Plans

AUGUST 2024

Tubac Fire Station #1
2227 I-19 Frontage Rd., Tubac, AZ 85646

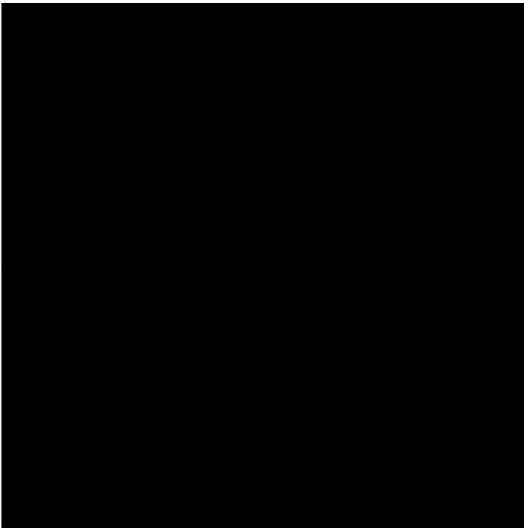
Intermediate Plans



PROJECT NO:
23.21.00
DATE:
AUGUST 2024

#	DATE	DESCRIPTION	ISSUED TO

DRAWN BY: JCG
CHECKED BY: CDA
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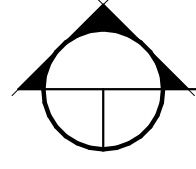
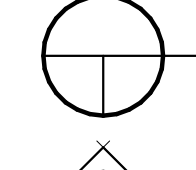
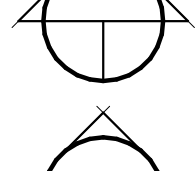
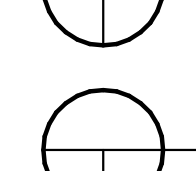
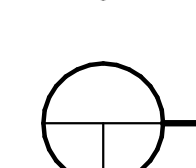
Breckenridge
g r o u p
a r c h i t e c t s
p l a n n e r s



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Cover
T10

SYMBOLS LEGEND

 BUILDING SECTION
 WALL SECTION
 EXTERIOR ELEVATION
 INTERIOR ELEVATION
 DETAIL REFERENCE

Detail or Section Title

SCALE 0 1 3

Floor Plan

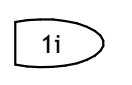
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SECTION OR DETAIL IDENTIFICATION NUMBER OR LETTER.

NUMBER OF SHEET ON WHICH SECTION OR DETAIL IS DRAWN.

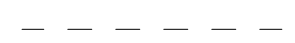
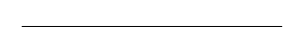
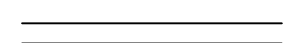



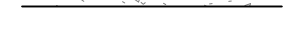
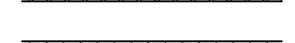




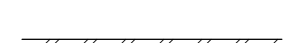

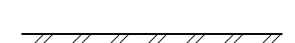


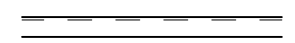
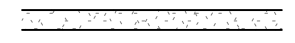
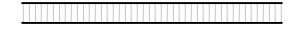

SHEET ON WHICH CONDITION IS REFERENCED.

KEYNOTES

 OPENINGS

 WALL TYPE

MATERIALS

EXISTING WALL REMOVED	
EXISTING WALL TO REMAIN	
NEW WALL (REFER TO KEYNOTE)	
EARTH	
BASE COURSE	
CONCRETE	
CONCRETE MASONRY UNIT	
BRICK	
WOOD STUDS	
ROUGH FRAMING	
BLOCKING	
FINISH LUMBER	
PLYWOOD	
METAL STUDS SECTION	
STRUCTURAL STEEL	
BATT INSULATION	
RIGID INSULATION	
CEMENT PLASTER	
GYPSON WALL BOARD	
CEILING TILE	
ASPHALT	

PROJECT CODE DATA

GOVERNING MUNICIPALITY
SANTA CRUZ COUNTY

APPLICABLE CODES

2012 INTERNATIONAL BUILDING CODE AND APPENDIX A

2012 INTERNATIONAL BUILDING CODE STANDARDS

2012 INTERNATIONAL MECHANICAL CODE

2012 INTERNATIONAL PLUMBING CODE

2012 INTERNATIONAL FIRE CODE

2012 INTERNATIONAL FUEL GAS CODE

2012 NATIONAL ELECTRICAL CODE

19997 UNIFORM BUILDING CODE, APPENDIX CHAPTER 33

1997 UNIFORM CODE FOR THE ABATEMENT OF DANGEROUS BUILDINGS

2012 INTERNATIONAL CODE COUNCIL ELECTRICAL CODE

2010 ADA STANDARDS FOR ACCESSIBLE DESIGN

DEFERRED SUBMITTALS

PER SECTION 106.3.4.1:

BRECKENRIDGE GROUP ARCHITECTS, THE REGISTERED DESIGN PROFESSIONAL IN CHARGE SHALL BE RESPONSIBLE FOR REVIEWING AND COORDINATING SUBMITTAL DOCUMENTS PREPARED BY OTHERS, INCLUDED PHASED AND DEFERRED SUBMITTAL ITEMS, FOR COMPATIBILITY WITH THE DESIGN OF THE BUILDING.

PER SECTION 106.3.4.2

SUBMITTAL DOCUMENTS FOR DEFERRED SUBMITTAL ITEMS SHALL BE SUBMITTED TO THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE WHO SHALL REVIEW THEM AND FORWARD THEM TO THE BUILDING OFFICIAL WITH A NOTATION INDICATING THAT THE DEFERRED SUBMITTAL DOCUMENTS HAVE BEEN REVIEWED AND THAT THEY HAVE BEEN FOUND TO BE IN GENERAL CONFORMANCE WITH THE DESIGN OF THE BUILDING.

ANTICIPATED DEFERRED SUBMITTALS:

- FIRE ALARM SYSTEM
- FIRE PROTECTION SYSTEM

SPECIAL INSPECTIONS

AS REQUIRED BY SECTION 1704 OF THE INTERNATIONAL BUILDING CODE 2012 EDITION

-
-
-
-

PROJECT TEAM

PROJECT ADDRESS

FIRE STATION NO.1
2227 E. FRONTAGE ROAD
TUBAC, AZ 85646

CLIENT / OWNER

TUBAC FIRE DISTRICT
2227 I-19 FRONTAGE ROAD
TUBAC, AZ 85646

OWNER CONTACT

BEN GUERRERO
FIRE CHIEF
TUBAC FIRE DISTRICT
520.209.1562 EXT. 7201

ARCHITECT

BRECKENRIDGE GROUP ARCHITECTS AND PLANNERS
1735 EAST FORT LOWELL ROAD #12
TUCSON, ARIZONA 85712

KLINDT BRECKENRIDGE
PRINCIPAL
520.882.99.44

CIVIL ENGINEER

ENGINEERING AND ENVIRONMENTAL CONSULTANTS- CEC
555 E. RIVER ROAD #301.
TUCSON, ARIZONA 85704

RYAN STUCKI, PE
SR. VICE PRESIDENT
520.321.4625

LANDSCAPE ARCHITECT

THE PLANNING CENTER
2 E CONGRESS ST #600
TUCSON, AZ 85701

FOREST WEIER
PROJECT MANAGER
520.497.6118

STRUCTURAL ENGINEER

MARTIN, WHITE & GRIFFIS STRUCTURAL ENGINEERS, INC.
3501 EAST SPEEDWAY BOULEVARD
TUCSON, ARIZONA 85716

ANDY DILEO, SE
520.327.9491

MECHANICAL AND PLUMBING ENGINEER

KC MECHANICAL ENGINEERING
5447 EAST FIFTH STREET #112
TUCSON, ARIZONA 85711

KEN WEYKER, PE
MECHANICAL ENGINEER
520.327.7611

ELECTRICAL ENGINEER

M3 ENGINEERING & TECHNOLOGY
2051 W. SUNSET ROAD
TUCSON, ARIZONA 85704

ENRIQUE GIRON
PROJECT MANAGER
520.293.1488

CONTRACTOR

D.L. NORTON GENERAL CONTRACTING, INC.
8175 E. EVANS RD.# 14950
SCOTTSDALE, ARIZONA 85267

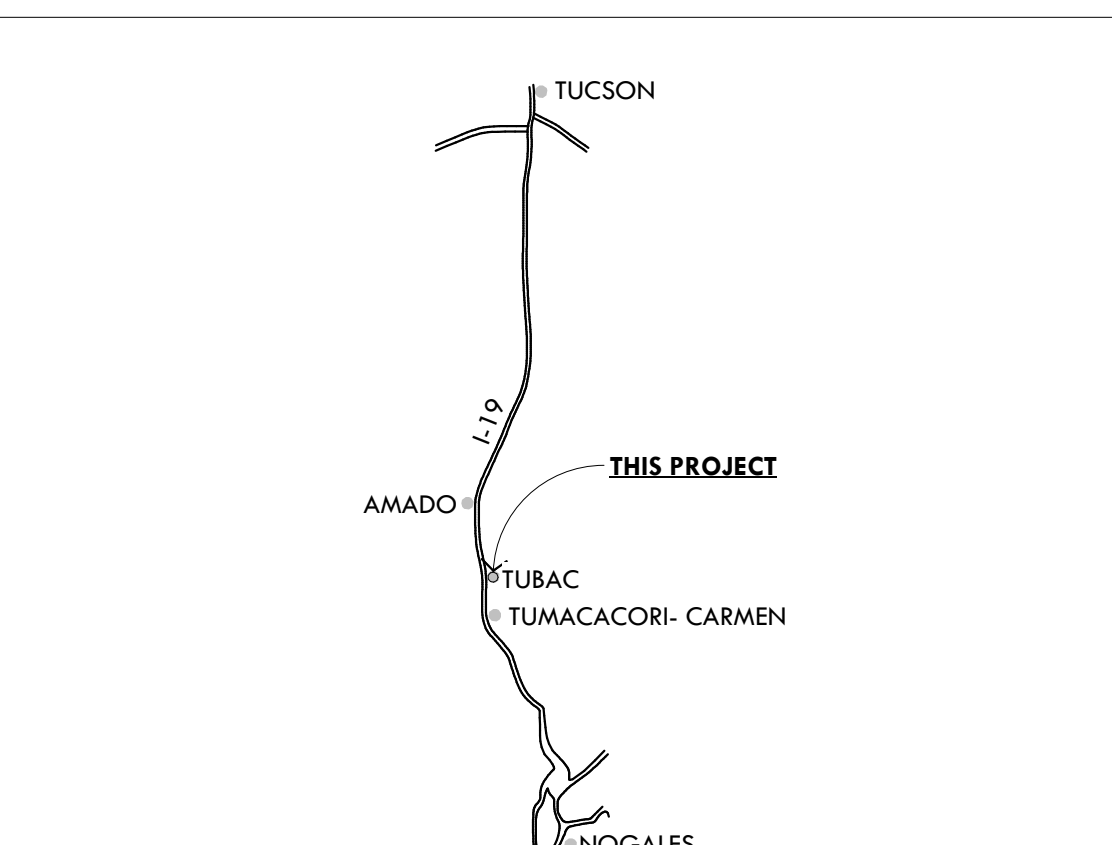
SCOTT GILES
PROJECT MANAGER
480.980.1340

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T3.0	CODE CHECK EGRESS PLAN	S1.2	ROOF FRAMING PLAN
		S1.2A	ROOF FRAMING PLAN - STEEL ALT
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C2.0	CIVIL	S3.1	STRUCTURAL DETAILS
C3.0	CIVIL	S3.2	STRUCTURAL DETAILS
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A7.1	BUILDING SECTIONS		
A7.2	BUILDING SECTIONS		
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A7.4	WALL SECTIONS		
A7.5	WALL SECTIONS		
A7.6	WALL SECTIONS		
A8.1	OPENING SCHEDULE & DOOR & WINDOW FRAME TYPES		
A9.1	ROOM FINISH SCHEDULE		
A9.2	FURNITURE/ EQUIP. PLAN		
A10.1	DETAILS		
A10.2	DETAILS		
S0.1	STRUCTURAL NOTES		
S0.2	STRUCTURAL NOTES		
S0.3	SPECIAL INSPECTIONS		



Vicinity Map



Location Map

Breckenridge
g r a p h i c s
a r c h i t e c t s
p l a n n e r s

1735 e ft. lowell rd. #12
tucson arizona 85719
5 2 0 . 8 8 2 . 9 9 4 4

Tubac Fire Station #1
2227 I-19 Frontage Rd., Tubac, AZ 85646
Intermediate Plans

NOT FOR CONSTRUCTION

PROJECT NO:
23.21.00

CHECKED BY: GSA

DATE:
AUGUST 2024

REVISION SCHEDULE:

#	DATE	DESCRIPTION	ISSUED TO

DRAWN BY: JCG
CHECKED BY: GSA

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General Information

T2.0

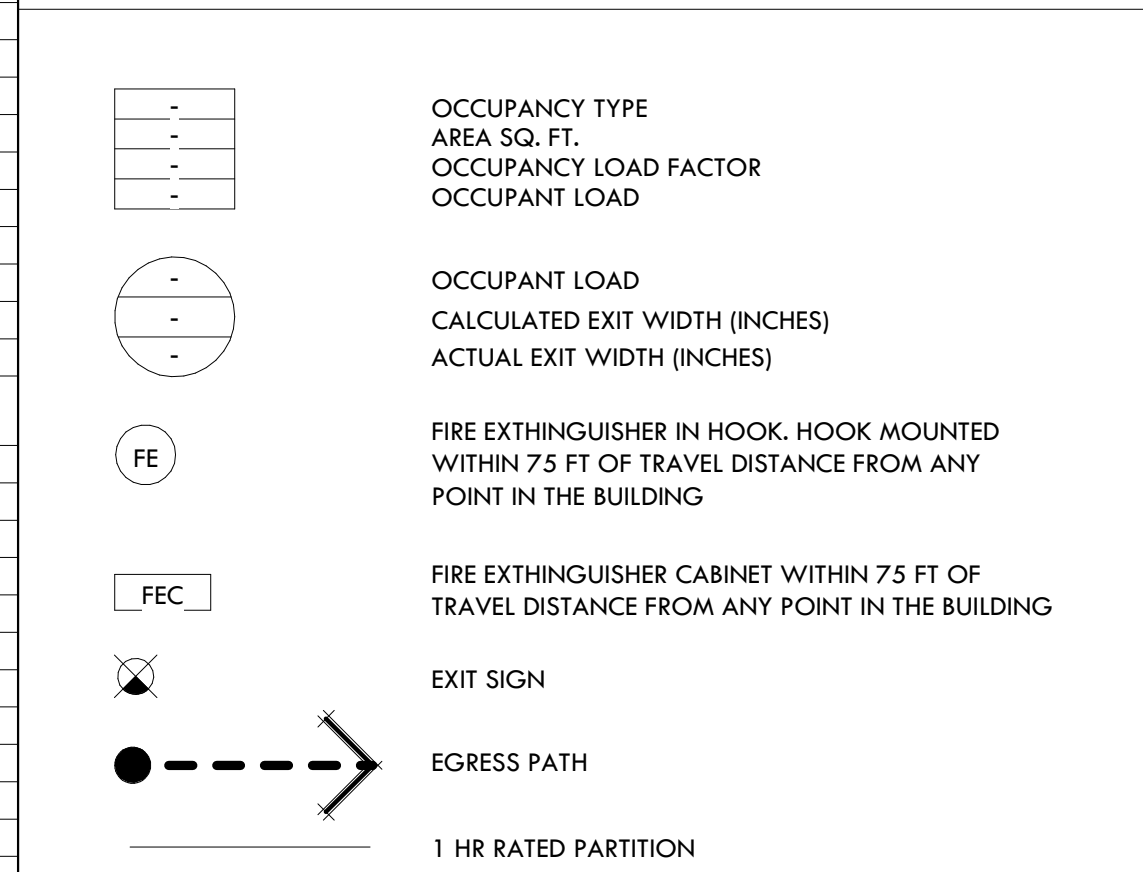
Occupancy Loads

Number	BUILDING		OCCUPANCY (65 TOTAL) IBC 2012 Chapter 3	Occupancy Type	LOAD FACTOR IBC 2012 Table 1004.1.2
	Name	AREA			
	Room	Not Placed			
101	LOBBY	114 SF	1	B	100
102	OPEN OFFICE	659 SF	7	B	100
103	CONFERENCE ROOM	308 SF	3	B	100
104	IT	55 SF	1	B	100
105	FIRE CHIEF	172 SF	2	B	100
106	ASSISTANT CHIEF	103 SF	1	B	100
107	BREAK	120 SF	1	B	100
108	WOMEN'S	86 SF	1	B	100
109	MEN'S	85 SF	1	B	100
110	F.F STUDY	104 SF	1	B	200
112	KITCHEN/ DAYROOM	726 SF	3	B	200
113	FITNESS	405 SF	8	B	50
114	OFFICE	90 SF	1	B	100
115	AIRLOCK	50 SF	0	B	200
116	SHOWER	73 SF	1	B	200
117	SHOWER	73 SF	1	B	200
118	HALL	260 SF	1	B	200
119	DORM	114 SF	1	R2	50
120	DORM	116 SF	1	R2	50
121	DORM	116 SF	1	R2	50
122	DORM	116 SF	1	R2	50
123	STOR.	23 SF			
124	DORM	115 SF	1	R2	50
125	MED STO.	87 SF	1	B	300
126A	JAN.	Not Placed	0	B	200
126B	MECH. ROOM	81 SF	1	B	200
127	APPARATUS BAYS	4064 SF	20	B	200
128	GENERAL STORAGE	70 SF	1	B	300
129	TURN-OUT ROOM	227 SF	1	B	300
130	ELECTRIC	112 SF	1	B	300
131	FIRE RISER	40 SF			

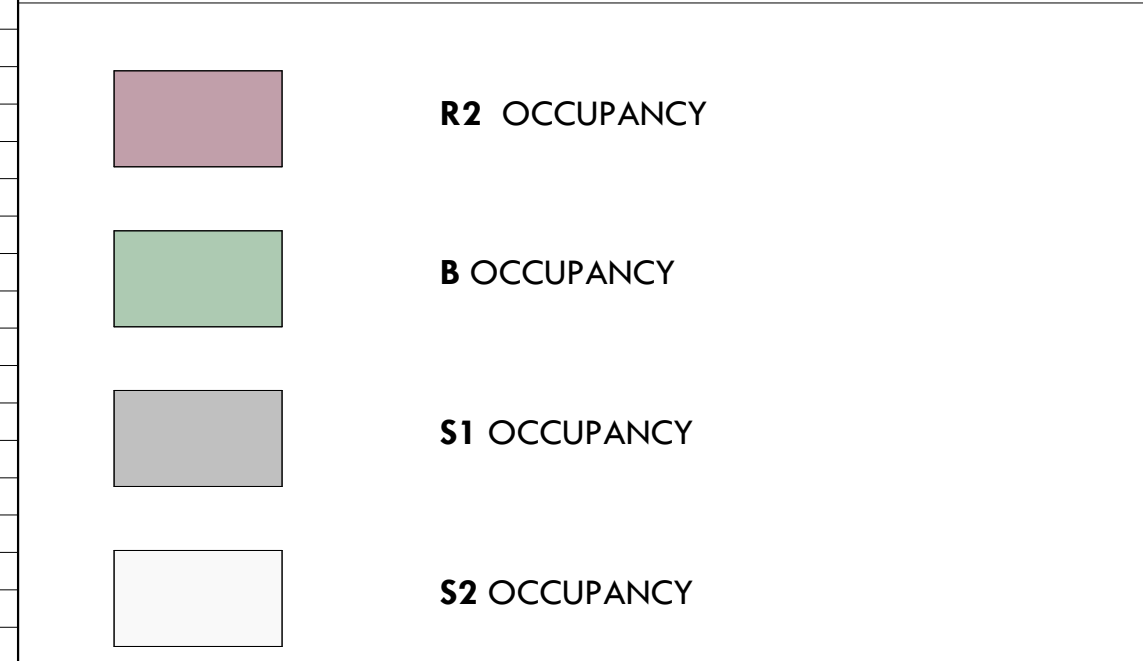
Project Code Data

DESCRIPTION	IBC 2012 SECTION	IBC 2012 REQUIREMENTS	COMPLIANT
BUILDING HEIGHT AND AREA LIMITATIONS	SECTION 503, TABLE 503		
FIRESTATION BUILDING			
TYPE OF CONSTRUCTION	V8		
TUBULAR BUILDING AREA	9,000		
BUILDING HEIGHT	2- STORY		
BUILDING AREA MODIFICATIONS	SECTION 506		
	$A_a = \{ A_t + [A_t \times I_f] + [A_t \times I_s] \}$		
BUILDING AREAS SHALL BE PERMITTED TO BE	$A_a = \text{ALLOWABLE AREA}$		
	$A_a = \text{ALLOWABLE BUILDING AREA}$		
INCREASED DUE TO FRONTAGE & AUTOMATIC	$A_t = \text{TUBULAR BUILDING AREA} / \text{STORY}$		
SPRINKLER PROTECTION	$I_f = \text{AREA INCREASE FACTOR DUE TO FRONTAGE}$		
	$I_s = \text{AREA INCREASE DUE SPRINKLER PROTECTION}$		
	$A_a = \{ 14,500 + [14,500 \times 2] \} = 43,500$		
INCIDENTAL USE SEPARATION AND/ OR PROTECTION	SECTION 509.2	INCIDENTAL USES SHALL NOT BE INDIVIDUALLY CLASSIFIED IN ACCORDANCE WITH SECTION 302.1	y
FIRE- RESISTANCE RATING REQUIREMENTS FOR BUILDING ELEMENTS	SECTION 601, TABLE 601 CONSTRUCTION TYPE V8	PRIMARY STRUCTURAL FRAME 0 EXTERIOR BEARING WALLS 0 INTERIOR BEARING WALLS 0 EXT. NONBEARING WALLS 0 INT. NONBEARING WALLS 0 FLOOR CONSTRUCTION 0 ROOF CONSTRUCTION 0	y
MAXIMUM AREA OF EXTERIOR WALL OPENING BASED ON THE FIRE SEPARATION DISTANCE	SECTION 705, TABLE 705.8	NOT REQUIRED	y
VERTICAL SEPARATION OF OPENINGS	SECTION 705.8.5	THIS SECTION DOES NOT APPLY TO BUILDINGS THAT ARE THREE STORIES OR LESS ABOVE GRADE	y
SHAFT ENCLOSURES	SECTION 713.4 FIRE RESISTANCE RATED	1 HR WHERE CONNECTING LESS THAN FOUR STORIES	y
AUTOMATIC SYSTEM	SECTION 903.2.3	NOT REQUIRED	y
MINIMUM STAIR WIDTH	TABLE 1005.3.1	0.2 INCH X OCCUPANT	y
REQUIRED CAPACITY BASED ON OCCUPANCY LOAD	TABLE 1005.3.1	0.2 INCH X OCCUPANT	y
MINIMUM DOOR WIDTH	TABLE 1005.3.2	0.15 INCH PER OCCUPANT	y
MAXIMUM TRAVEL DISTANCE BEFORE COMMON PATH OF EGRESS	TABLE 1014.3	100 FEET	y
EXIT TRAVEL DISTANCE	TABLE 1016.2	250 FEET	y
CORRIDOR FIRE- RESISTANCE RATING	TABLE 1018.1	WITH SPRINKLER SYSTEM 0.5	y
MINIMUM CORRIDOR WIDTH	TABLE 1018.2	44 INCHES MECHANICAL, PLUMBING, ELECTRICAL= 24 INCHES	y
DEAD END CORRIDORS	TABLE 1018.4	NOT EXCEED 50 FEET	y

Exiting Data



Occupancy Legend



Site Data

CURRENT ZONING: HB2
USE RESTRICTIONS: HB2
SITE AREA: 150,762.03 SF.
MAXIMUM LOT COVERAGE:
 ACTUAL: 21.33%
 ALLOWABLE:
DEVELOPMENT STANDARDS:
 MINIMUM FRONT YARD -
 MINIMUM REAR YARD -
 MINIMUM SIDE YARD -
BUILDING HEIGHT RESTRICTIONS:
 MAXIMUM BUILDING HEIGHT = 2 STORIES
 ACTUAL BUILDING HEIGHT = 1 STORY, 26FT.
PARKING CALCULATIONS:
 PER SANTA CRUZ COUNTY DEVELOPMENT CODE ARTICLE 11-1
 PARKING SPACES = 1 SPACE / 500 SQ. FT.
 REQUIRED - 20 PARKING SPACES
 PROVIDED - 20 PARKING SPACES
 18 REGULAR SPACES + 2 ADA SPACES

Plumbing Fixture Count

PER IBC 2012 TABLE 2902.1:

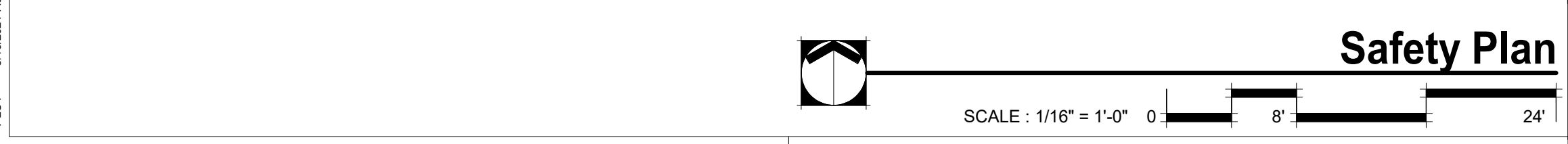
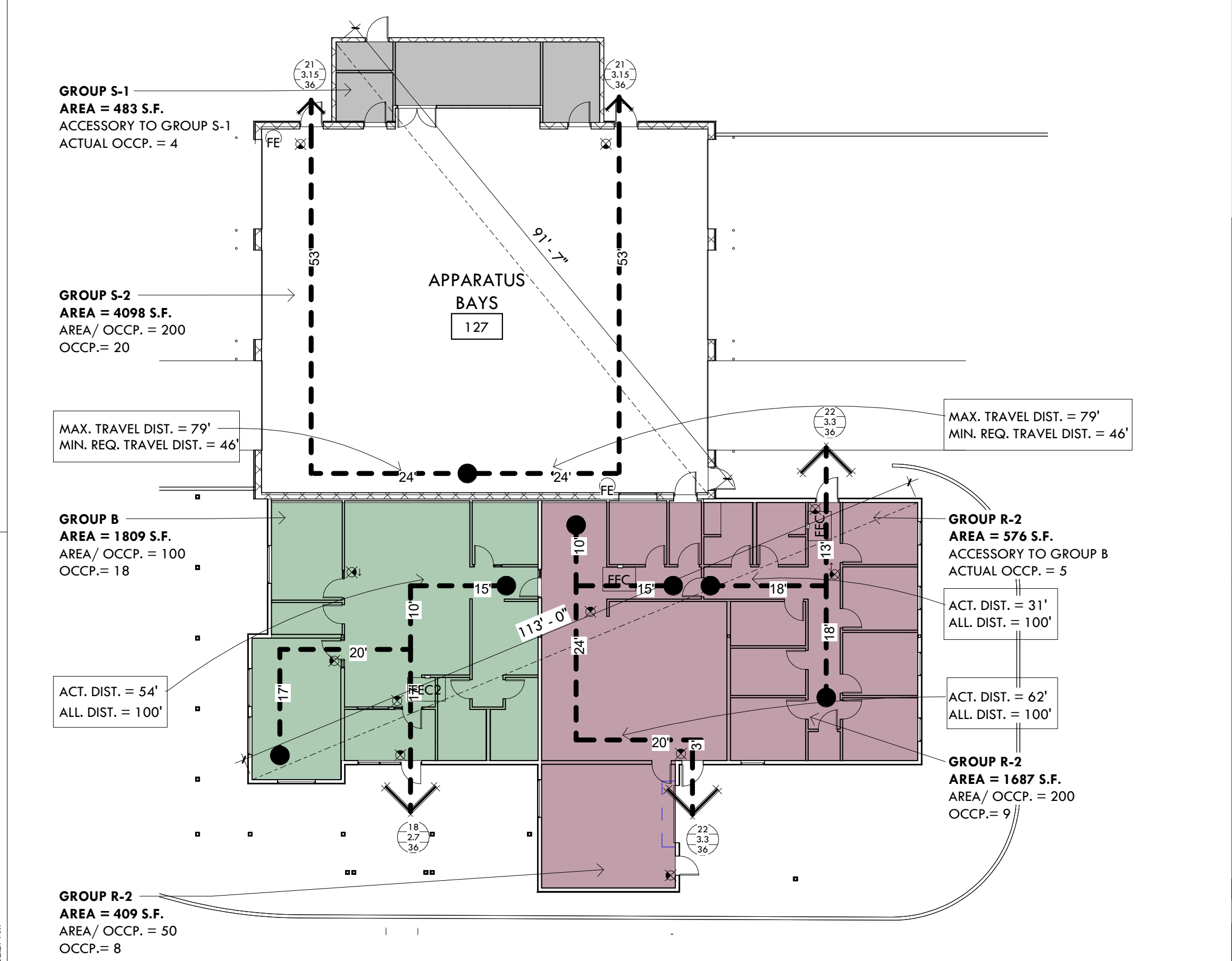
OCCUPANCY TYPE	WC MALE	WC FEMALE	LAV MALE	LAV FEMALE	BATHTUBS/ SHOWERS	SERVICE SINK
BUSINESS (B)	1 PER 25*	1 PER 25*	1 PER 40**	1 PER 40**	-	1 REQUIRED
RESIDENTIAL (R2)	1 PER 10	1 PER 10	1 PER 8	1 PER 8	-	1 REQUIRED

OCCUPANCY LOAD = 65 (33M + 32F)

REQUIRED:	2	2	1	1	1	1
PROVIDED:	2	2	2	2	1	1

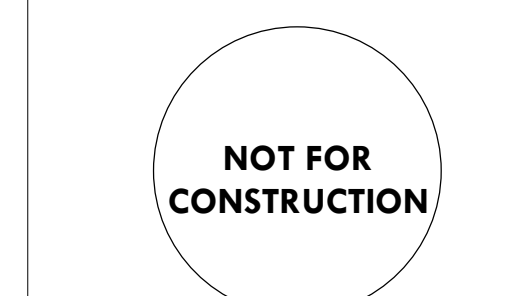
* 1 PER 25 FOR THE FIRST 50 AND 1 PER 50 FOR THE REMAINDER EXCEEDING 50
 ** 1 PER 40 FOR THE FIRST 80 AND 1 PER 80 FOR THE REMAINDER EXCEEDING 80

Occupants : 65	WC M: 33	LAV M: 33	WC F: 33	LAV F: 33	Bathrooms/ Showers	Sink
WOMEN'S	1.3	0.81	1.3	0.81	-	1 REQ.
MEN'S	1.3	0.81	1.3	0.81	-	1 REQ.



Breckenridge
 architects
 planners
 1735 e ft. lowell rd. #12
 tucson arizona 85719
 5 2 0 . 8 8 2 . 9 9 4 4

Tubac Fire Station #1
 2227 I-19 Frontage Rd., Tubac, AZ 85646
 Intermediate Plans



PROJECT NO:
23.21.00
 DATE:
AUGUST 2024
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Code Check
 Egress Plan
T3.0

GENERAL NOTES

- EXCESS SOIL GENERATED FROM EARTHWORK OPERATIONS SHALL BE REMOVED FROM THE SITE AND LAWFULLY DISPOSED OF, OR IF ALLOWED AND APPROVED BY THE TOWN ENGINEER, SITE MATERIAL MAY BE PLACED SO AS TO BECOME AN INTEGRAL PART OF THE SITE DEVELOPMENT, ALL IN ACCORDANCE WITH THE HILLSIDE DEVELOPMENT REGULATIONS.
- CUT AND FILL SLOPES AND LOPE TREATMENT TO BE IN COMPLIANCE WITH THE REQUIREMENTS OF THE ACCEPTED GEOTECHNICAL ENGINEERING INVESTIGATION.
- EXCESS SOIL MATERIAL GENERATED FROM EARTHWORK OPERATIONS SHALL NOT BE DISPOSED OF BY PUSHING OR PLACING SID MATERIAL INTO THE AREAS DESIGNATED AS 100 YEAR FLOODPLAIN AREAS.
- THE CONTRACTOR IS RESPONSIBLE FOR ASSURING PROPER AND ADEQUATE DRAINAGE.
- ELEVATION OF FINISHED PADS SHALL BE CERTIFIED BY A REGISTERED LAND SURVEYOR PRIOR TO POURING FOUNDATIONS.
- EXISTING UTILITY INFORMATION BASED ON FIELD SURVEY INFORMATION AND AS-BUILT PLANS. CONTRACTOR TO VERIFY LOCATION OF EXISTING UTILITIES AND RELOCATE, IF NECESSARY, TO REMOVE UTILITIES FROM PROPOSED BUILDING FOOTPRINTS. CONTRACTOR TO COORDINATE RELOCATION WITH UTILITY COMPANY IF NECESSARY.
- CONCRETE SPLASH BLOCKS SHALL BE PLACED AT ALL ROOF DRAIN OUTLETS. CONTRACTOR MAY CONSTRUCT RIP-RAP SPLASH PADS OVER FILTER FABRIC OR GROUTED RIP-RAP IN LIEU OF SPLASH BLOCKS.
- CONTRACTOR TO COORDINATE FINAL UTILITY ROUTING AND SIZE.
- FINISHED SLOPES MUST CONFORM TO THE FOLLOWING:
3:1 (HORIZONTAL/VERTICAL FOR FLATTER SHALL BE REVEGETATED SIMILAR TO SURROUNDING DESERT.
SLOPES 2:1 OR FLATTER BUT STEEPER THAN 3:1 SHALL BE STABILIZED WITH ROCK RIP-RAP OVER FILTER FABRIC.
SLOPES STEEPER THAN 2:1 SHALL BE STABILIZED WITH GROUTED RIP-RAP OR RETAINING WALLS AS APPROPRIATE. SLOPES SHALL NOT EXCEED 1:1.
ALTERNATIVE METHODS OF STABILIZATION MAY BE ALLOWED WHEN SUPPORTED BY A GEOTECHNICAL REPORT PREPARED BY AN ARIZONA REGISTRANT.

PAVING AND GRADING NOTES

- ALL CONSTRUCTION AND TEST METHODS SHALL BE IN CONFORMANCE WITH PIMA COUNTY/CITY OF TUCSON STANDARD SPECIFICATIONS FOR PUBLIC IMPROVEMENTS (PC/COT SSPI) 2003 EDITION.
- ALL CONCRETE SHALL COMPLY TO PC/COT SSPI SECTION 1006, CLASS S, 3,000 P.S.I. COMPRESSIVE STRENGTH AT 28 DAYS, UNLESS OTHERWISE SPECIFIED.
- THE CONTRACTOR SHALL FURNISH, HAUL, AND APPLY ALL WATER REQUIRED FOR COMPACTION AND FOR THE CONTROL OF DUST FROM CONSTRUCTION ACTIVITY.
- A SOILS ENGINEER SHALL OBSERVE, INSPECT AND TEST ALL EARTHWORK AND PAVING OPERATIONS, INCLUDING BUT NOT LIMITED TO: CLEARING, GRUBBING, SUBGRADE PREPARATION, STRUCTURAL AND TRENCH EXCAVATION AND BACK FILL, TOGETHER WITH PLACEMENT AND COMPACTION OF FILL, PARKING ARE SURFACING, PAVING AND CONCRETE WORK.
- THE CONTRACTOR SHALL ADJUST BOTH EXISTING AND NEW WATER VALVES, BOX COVERS, WATER METER BOXES, SANITARY SEWER MANHOLES AND CLEANOUT RING AND COVERS, TELEPHONE AND ELECTRIC MANHOLE RINGS AND COVERS TO FINISHED GRADE.
- EXCAVATION AND BACKFILL FOR STRUCTURES SHALL CONFORM TO PC/COT SSPI, SECTION 203-5.

EXISTING UTILITY NOTE

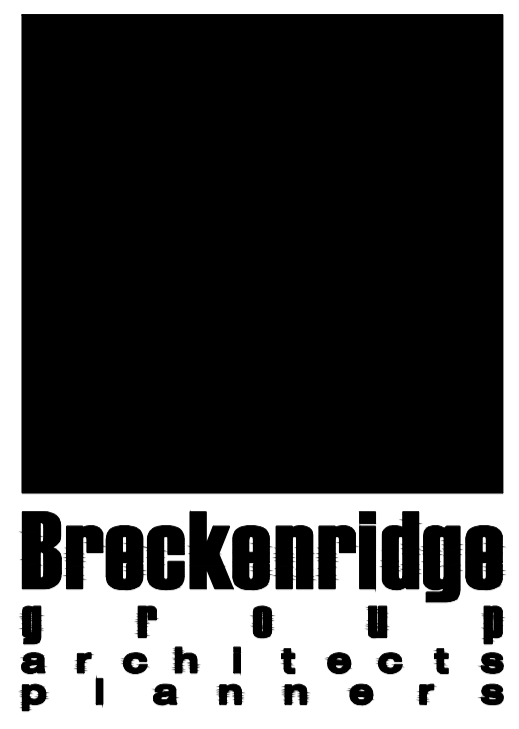
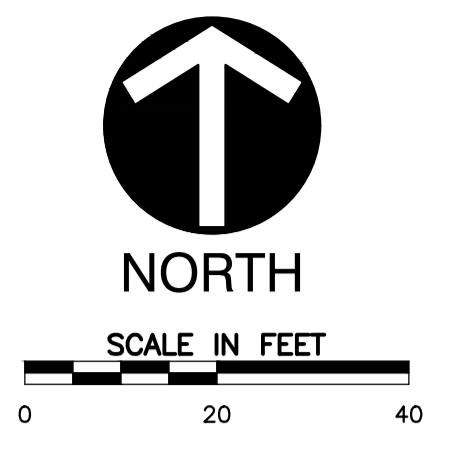
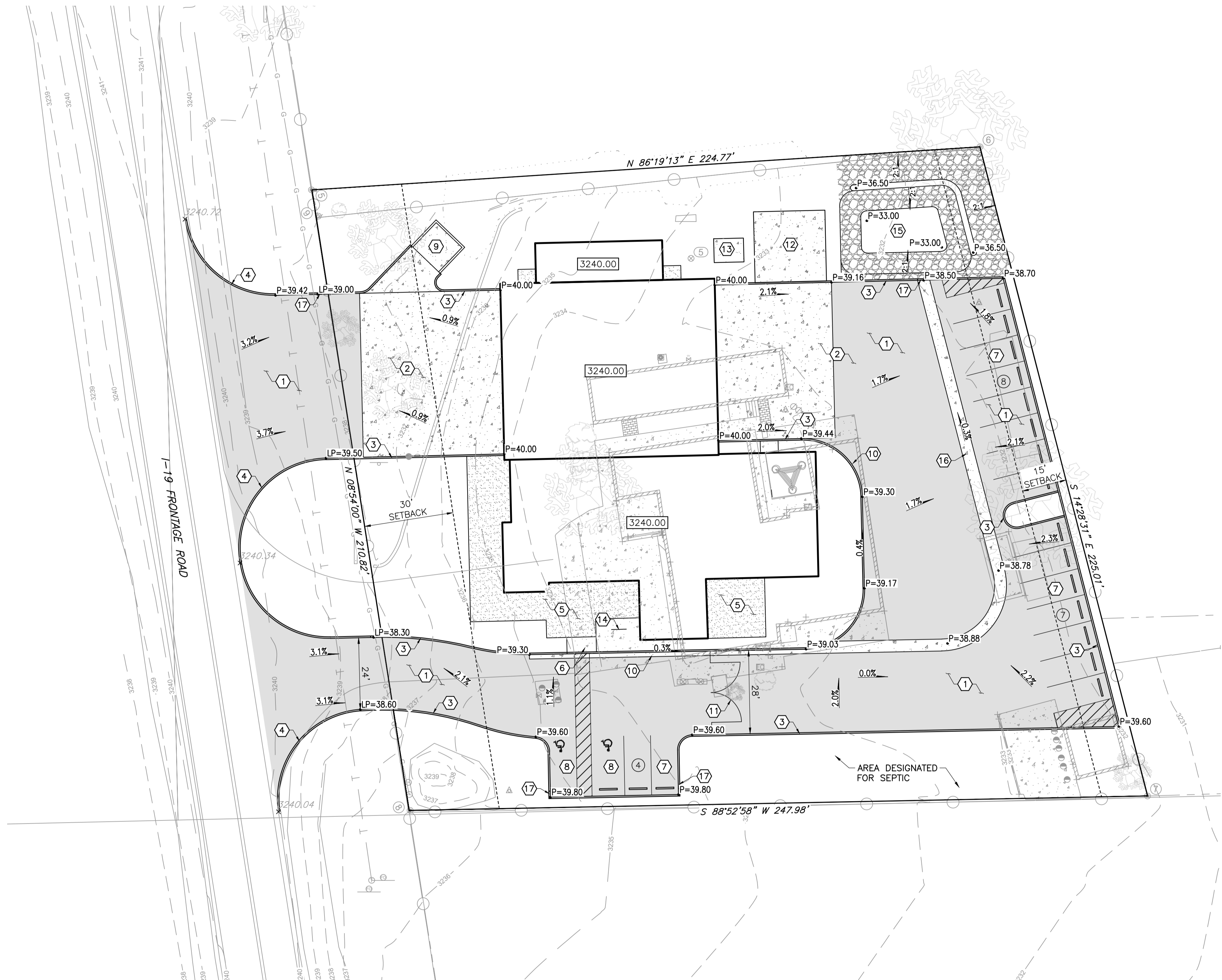
EXISTING UTILITY LOCATIONS, AS SHOWN ON THE PLANS, WERE COMPILED FROM UTILITY COMPANY BASE MAPS, RECORD PLANS AND ABOVE GROUND FEATURES. HOWEVER, UTILITY LOCATIONS ARE NOT TO BE CONSIDERED EXACT OR COMPLETE. PRIOR TO COMMENCING WORK, THE CONTRACTOR SHALL VERIFY THE LOCATION OF ALL WITH THE APPROPRIATE ORGANIZATION AND, IF NECESSARY, POTHOLE ANY AND ALL UTILITY LOCATIONS IN QUESTION. THE CONTRACTOR SHALL PROTECT ALL EXISTING UTILITIES "IN-PLACE" UNLESS OTHERWISE NOTED ON THE CONSTRUCTION DOCUMENTS.

LEGEND

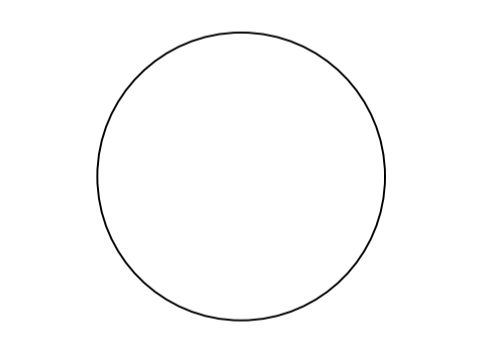
	EXISTING SUBJECT PROPERTY LINE
	EXISTING EASEMENT
	EXISTING RIGHT-OF-WAY
	EXISTING INDEX (MAJOR) CONTOUR
	EXISTING INTERMEDIATE (MINOR) CONTOUR
	EXISTING FENCE LINE
	EXISTING ROADWAY CENTERLINE
	EXISTING ASPHALT PAVEMENT
	EXISTING WATER LINE
	EXISTING SANITARY SEWER LINE
	EXISTING GAS LINE
	EXISTING OVERHEAD WIRE
	EXISTING ELECTRIC LINE
	EXISTING UNDERGROUND ELECTRIC LINE
	PROPOSED CONCRETE
	PROPOSED SIDEWALK

SITE KEY NOTES

- | | |
|--|--|
| (1) NEW ASPHALT PAVEMENT. | (10) NEW CONCRETE VERTICAL CURB AND GUTTER, TYPE 1G, PER PAG SD 209. |
| (2) NEW CONCRETE PAVEMENT. | (11) NEW GATE. |
| (3) NEW CONCRETE VERTICAL CURB, TYPE 2, PER PAG SD 209. | (12) NEW COMMUNICATIONS SHELTER PAD. |
| (4) NEW CONCRETE HEADER PER PAG SD 213. | (13) NEW TOWER PAD. |
| (5) NEW CONCRETE SIDEWALK PER PAG SD 200. ALL ACCESSIBLE ROUTE SLOPES ARE TO COMPLY WITH 2010 ADASAD SECTION 403.3, 5% MAXIMUM RUNNING SLOPE AND 2% MAXIMUM CROSS SLOPE. | (14) NEW BIKE RACK. |
| (6) NEW CONCRETE CURB ACCESS RAMP. | (15) BASIN AREA. |
| (7) STANDARD PARKING SPACE. | (16) NEW VALLEY GUTTER PER PAG SD 208. |
| (8) HANDICAP PARKING SPACE. | (17) CURB OPENING. |
| (9) NEW TRASH ENCLOSURE. | |



Tubac Fire Station #1
2227 I-19 Frontage Rd., Tubac, AZ 85646
Schematic Design



PROJECT NO:
DATE: 07/31/2024
REVISION SCHEDULE:
DATE DESCRIPTION ISSUED TO

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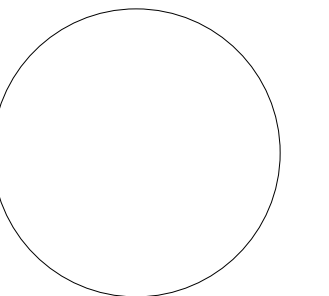
Keynotes

- ① DEMO BUILDING STRUCTURE
- ② DEMO ASPHALT PAVING
- ③ DEMO CONCRETE SLAB
- ④ DEMO CONCRETE SIDEWALK
- ⑤ REMOVE MODULAR BUILDING
- ⑥ DEMO STACKED STONE W/ WALL
- ⑦ DEMO PERIMETER CHAIN LINK FENCE
- ⑧ DEMO + REMOVE FLAG POLE & DEMO CONC. BASE
- ⑨ DEMO SLAB
- ⑩ REMOVE GAS TANK
- ⑪ DEMO CANOPY STRUCTURE
- ⑫ REMOVE STEEL STORAGE SHED
- ⑬ REMOVE MECHANICAL EQUIPMENT
- ⑭ REMOVE VEGETATION

Breckenridge
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 p l a n n e r s

1735 e ft. lowell rd. #12
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 5 2 0 . 8 8 2 . 9 9 4 4

Tubac Fire Station #1
 2227 I-19 Frontage Rd., Tubac, AZ 85746
 Intermediate Plans



PROJECT NO:
23.21.00
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DRAWN BY: JCG
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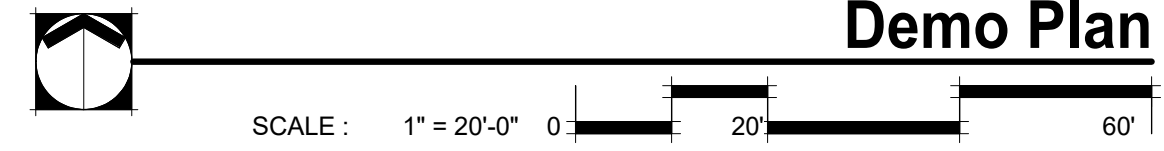
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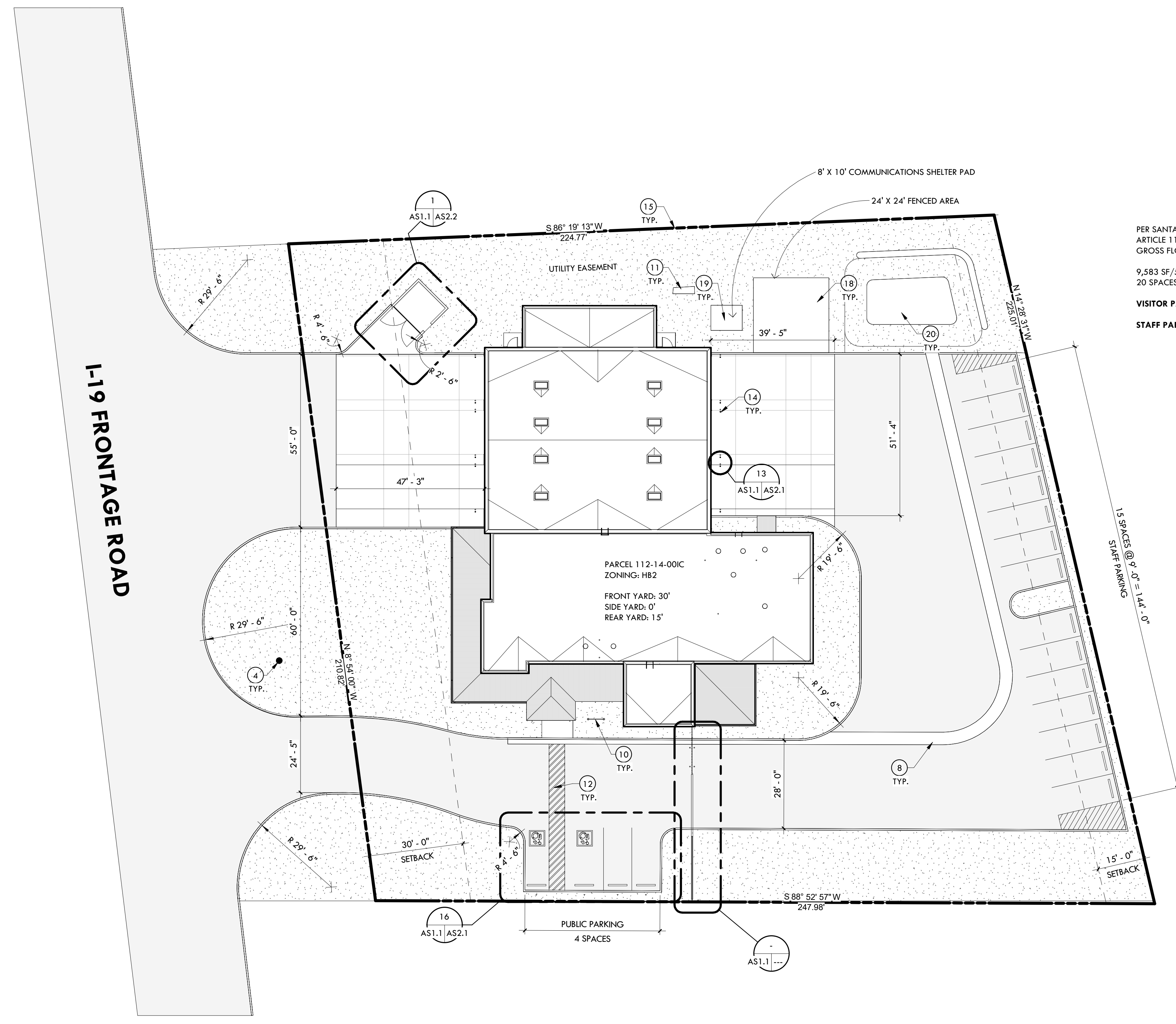
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Demolition Plan

AD2.1





PER SANTA CRUZ COUNTY DEVELOPMENT CODE
 ARTICLE 11-1 SPACE PER 500 SQUARE FEET OF
 GROSS FLOOR AREA.

9,583 SF/500 = 20 SPACES REQUIRED
 20 SPACES PROVIDED

VISITOR PARKING : 4 SPACES
STAFF PARKING : 16 SPACES

Keynotes

- ④ FIRE HYDRANT
- ⑤ FLAG POLE
- ⑧ CONCRETE VERTICAL CURB AND GUTTER
- ⑩ BIKE RACK
- ⑪ TANK
- ⑫ THERMOPLASTIC ASPHALT STRIPPING
- ⑬ SAND/OIL INTERCEPTOR
- ⑭ BOLLARD
- ⑮ CHAINLINK FENCE
- ⑯ WROUGHT IRON FENCE
- ⑰ GENERATOR
- ⑱ COMMUNICATIONS SHELTER PAD
- ⑲ TOWER PAD
- ⑳ BASIN AREA

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 p l a n n e r s

1735 e ft. lowell rd. #12
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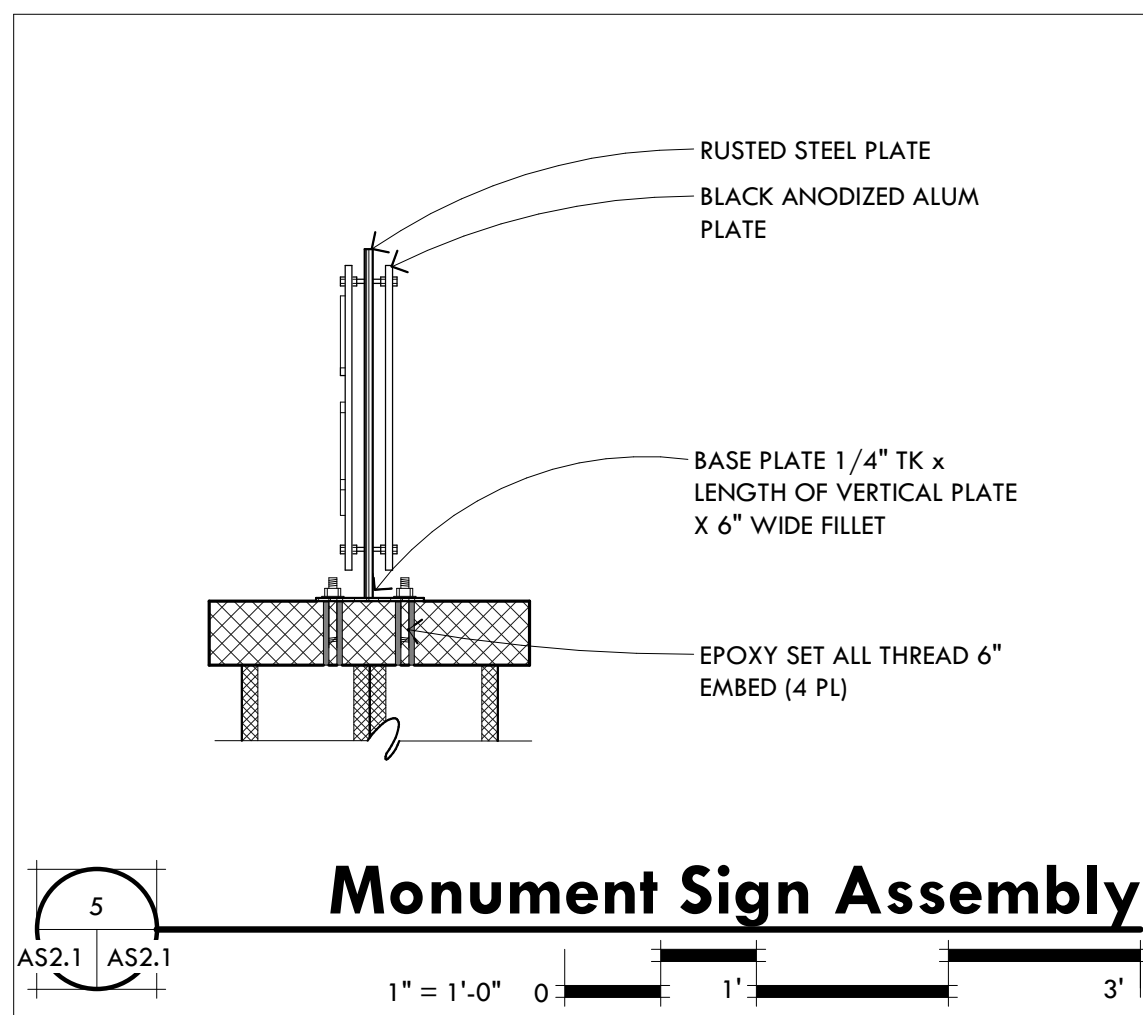
DATE:
AUGUST 2024

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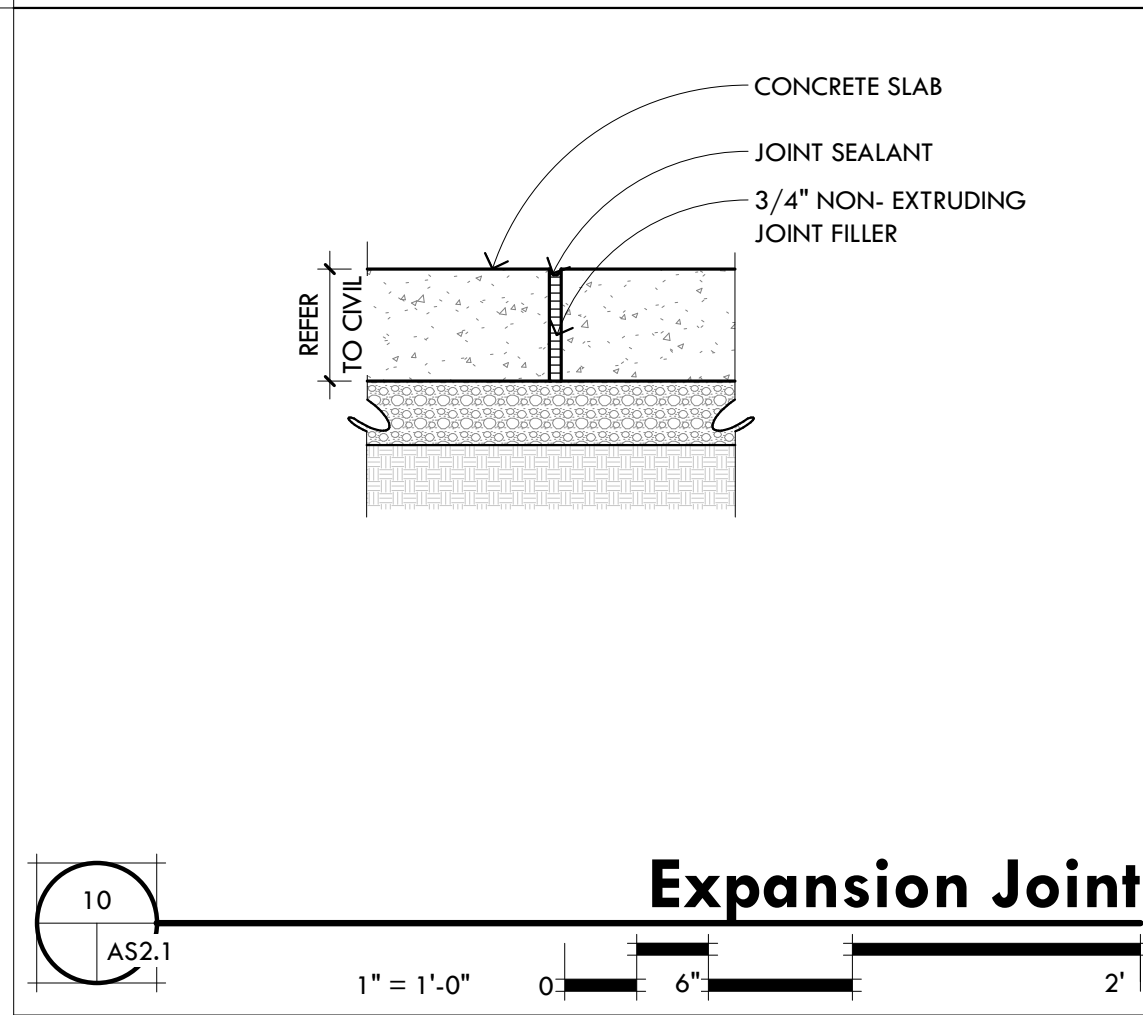
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Architectural Site
 Plan

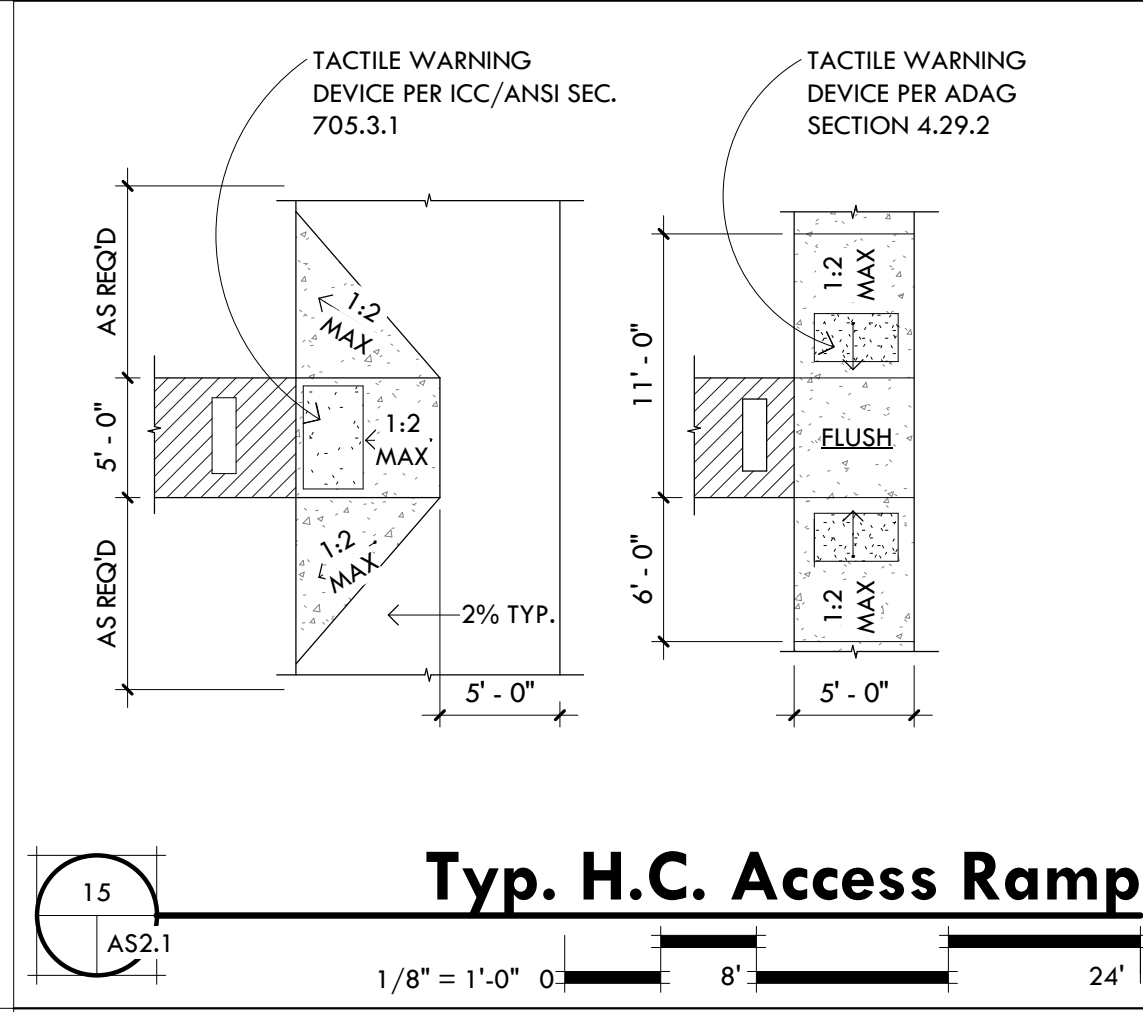
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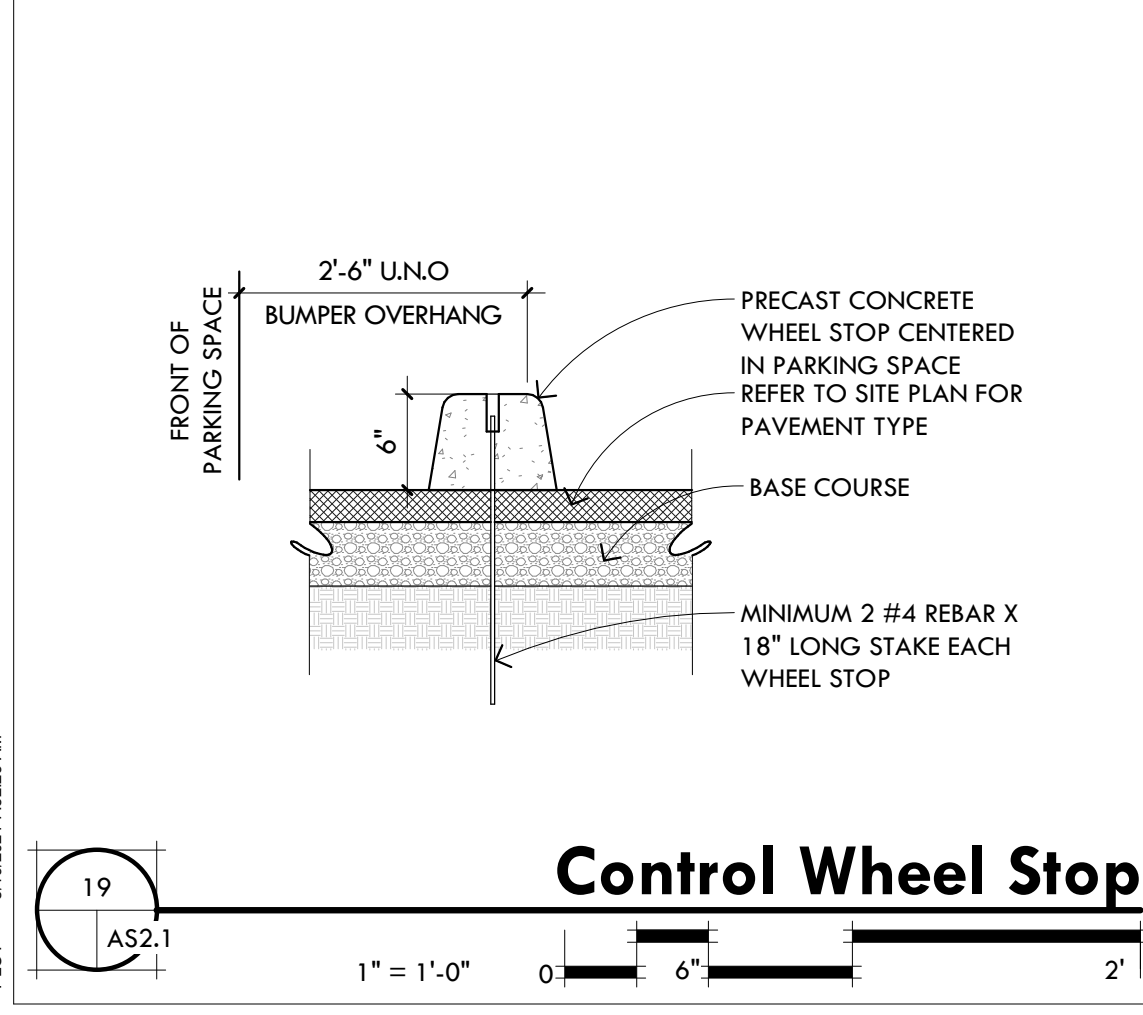
Monument Sign Assembly



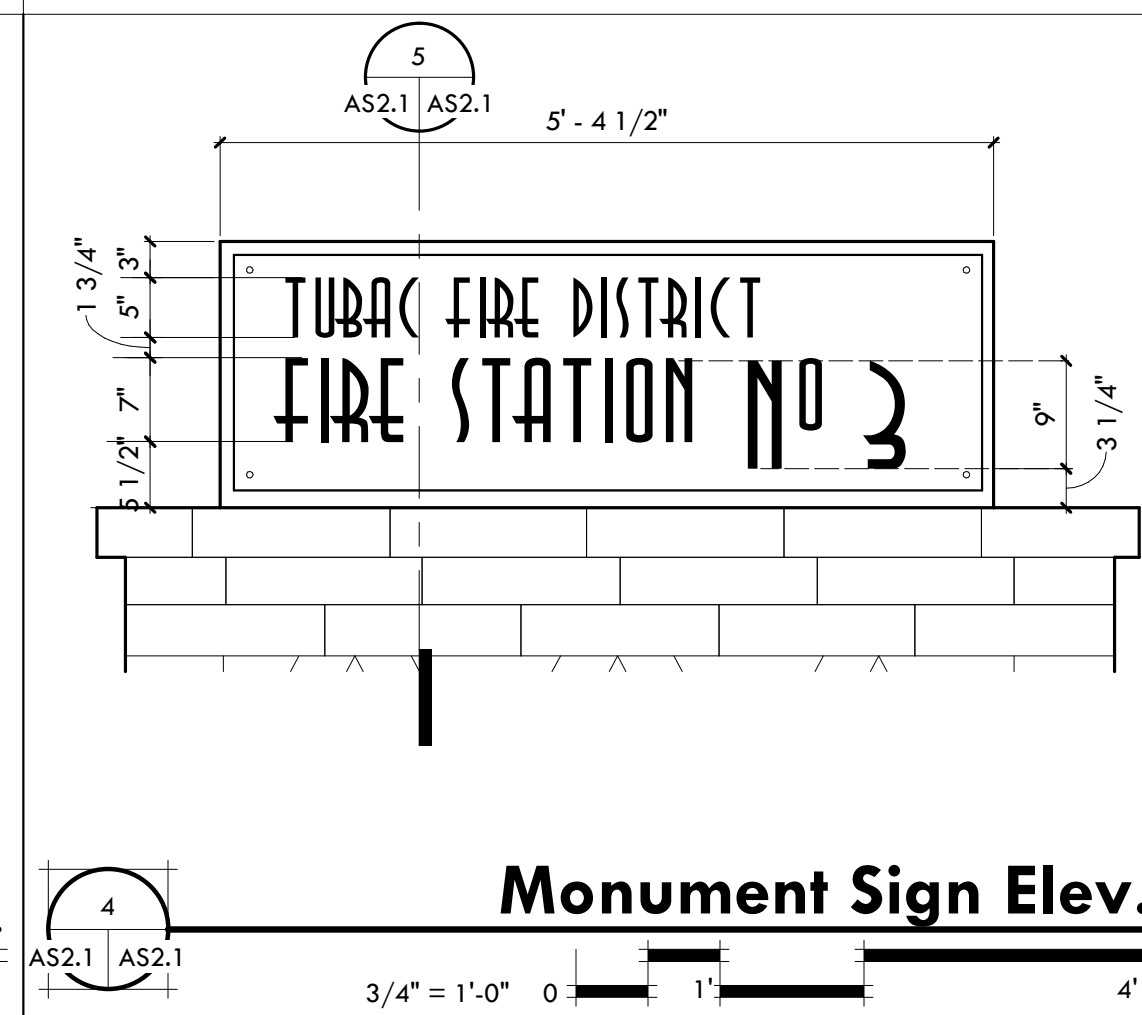
Expansion Joint



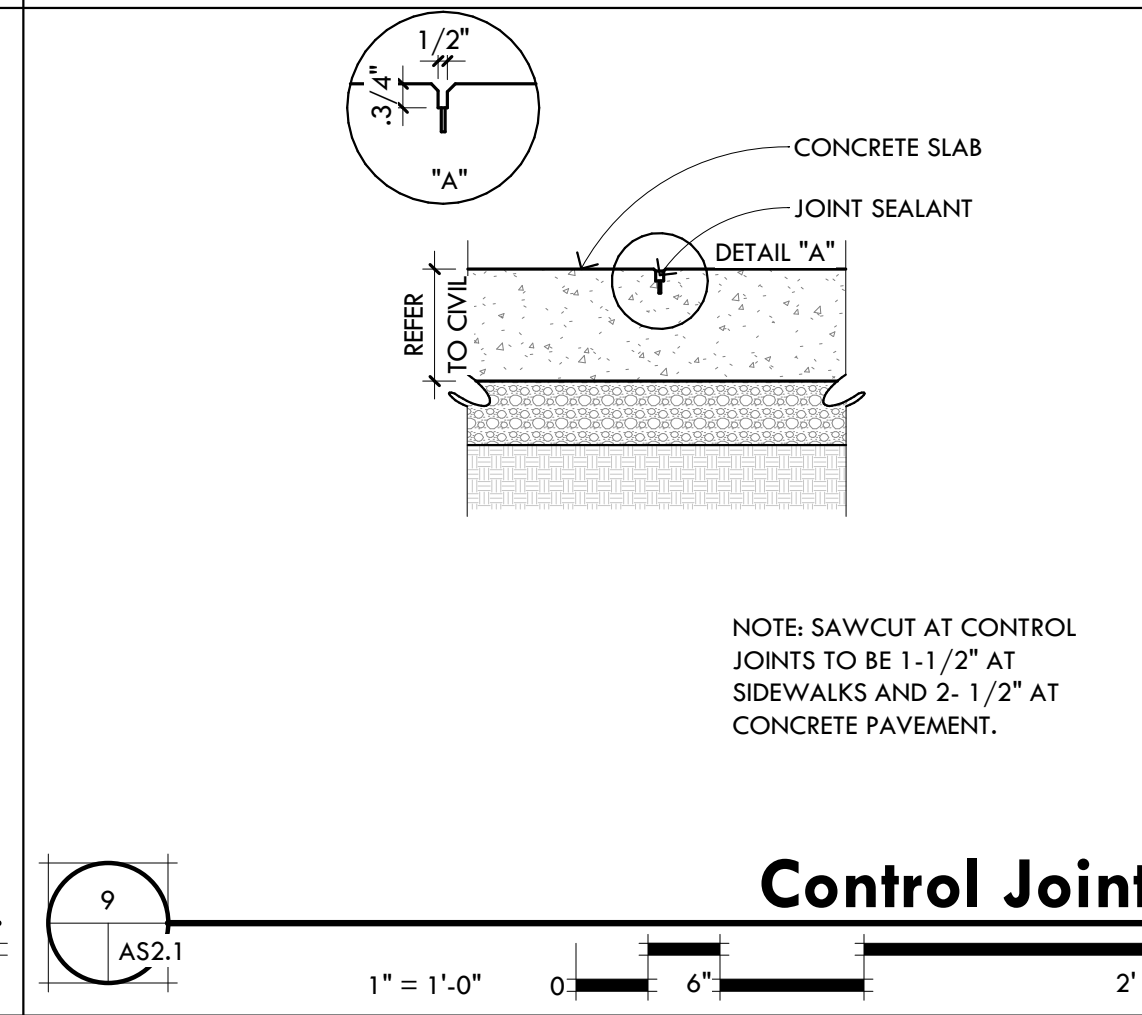
Typ. H.C. Access Ramp



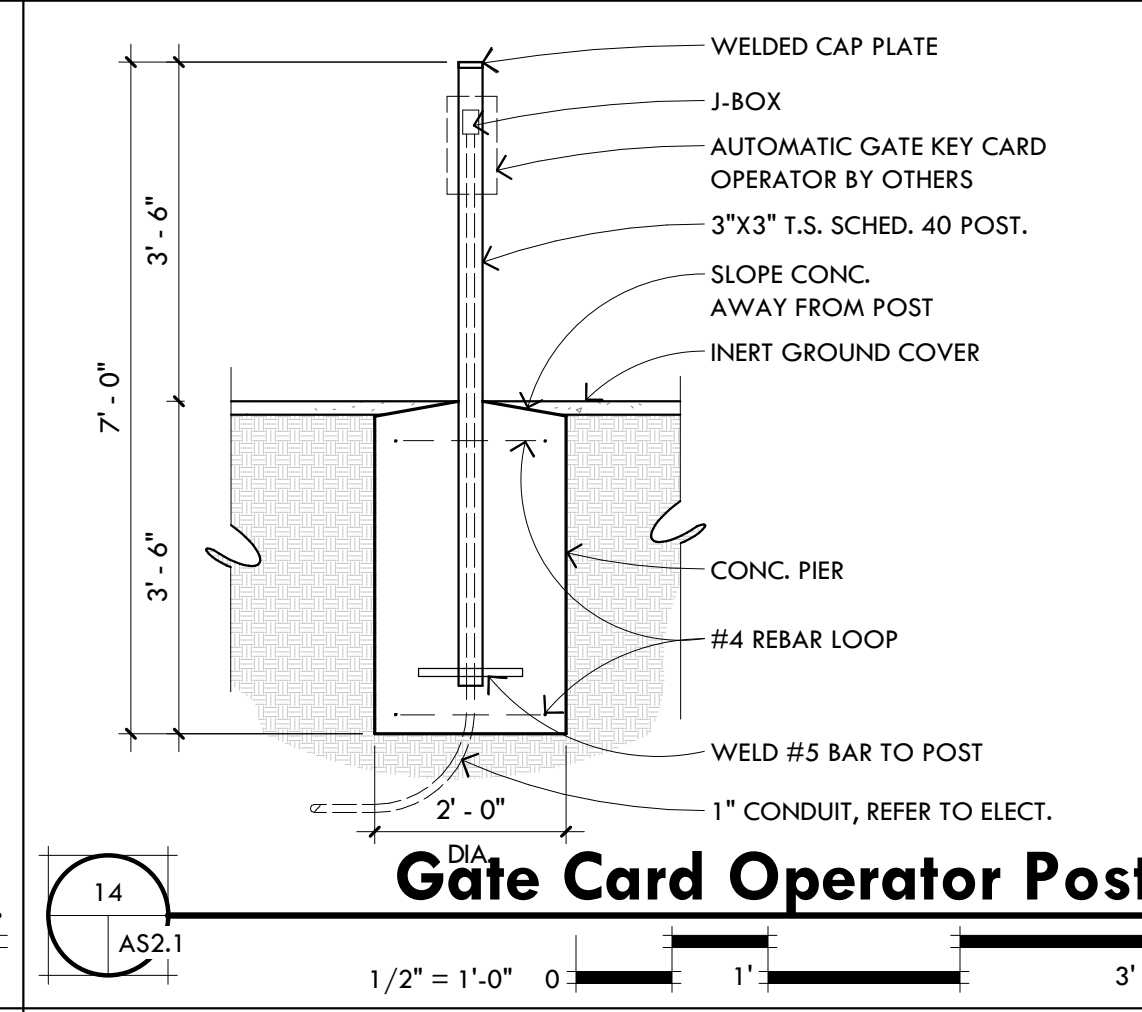
Control Wheel Stop



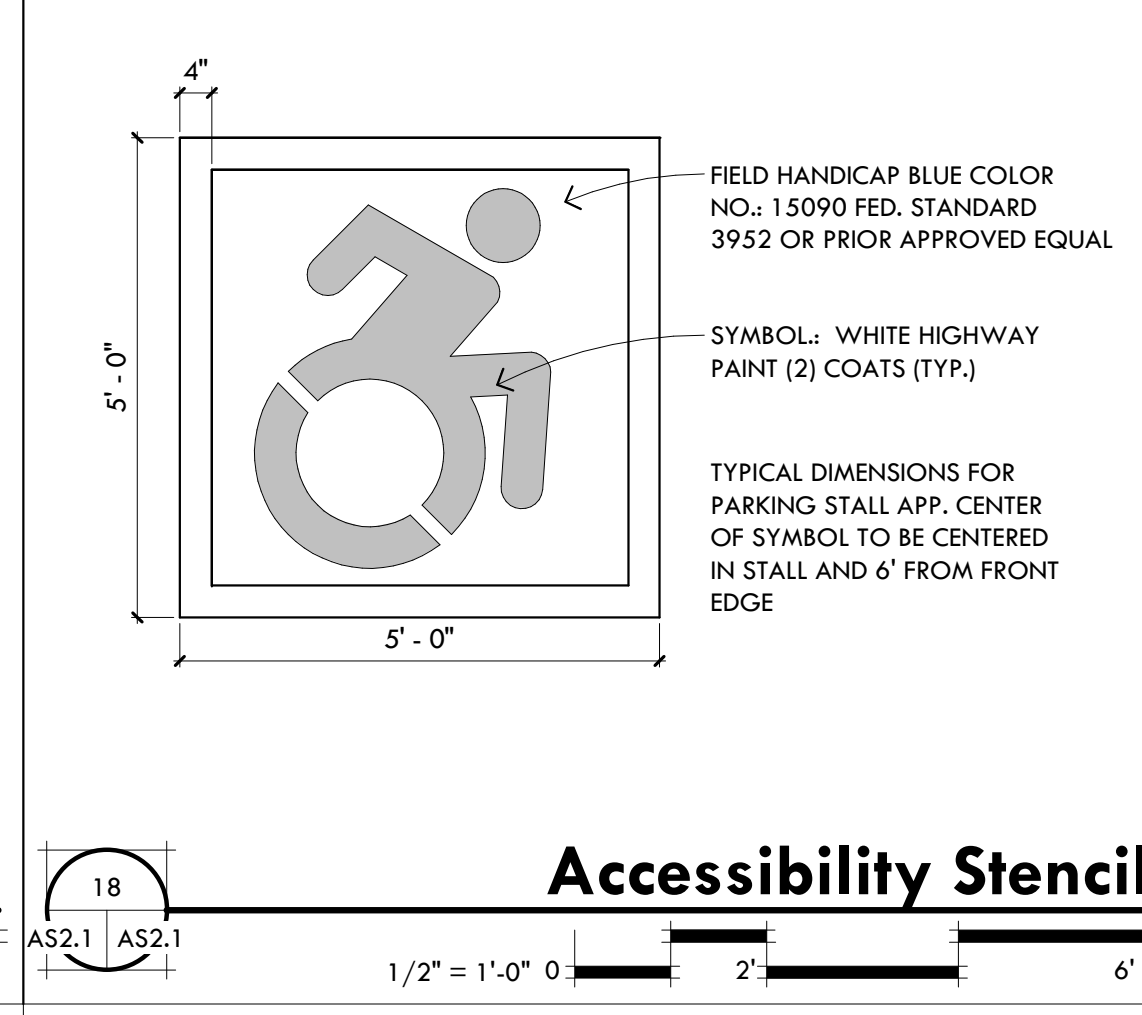
Monument Sign Elev.



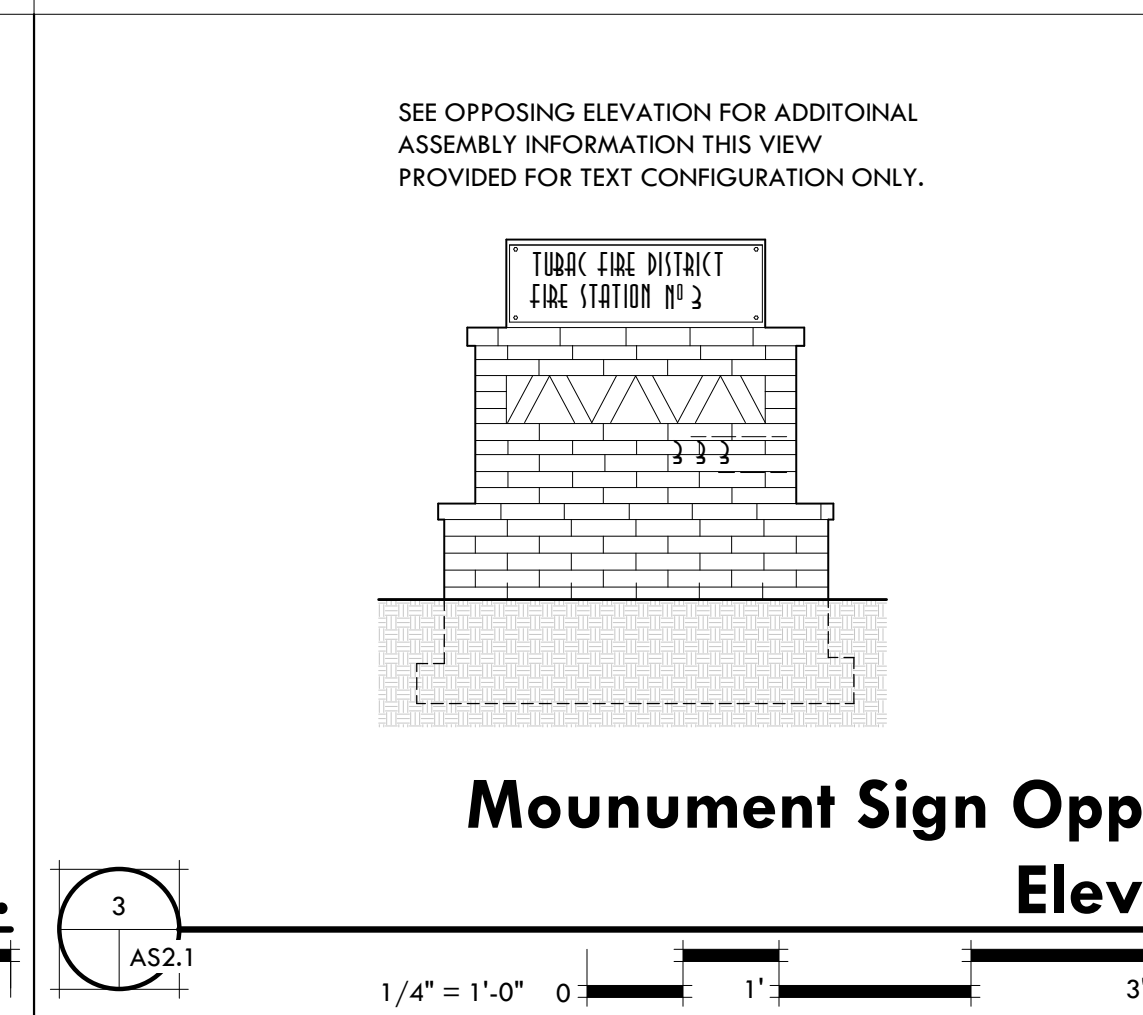
Control Joint



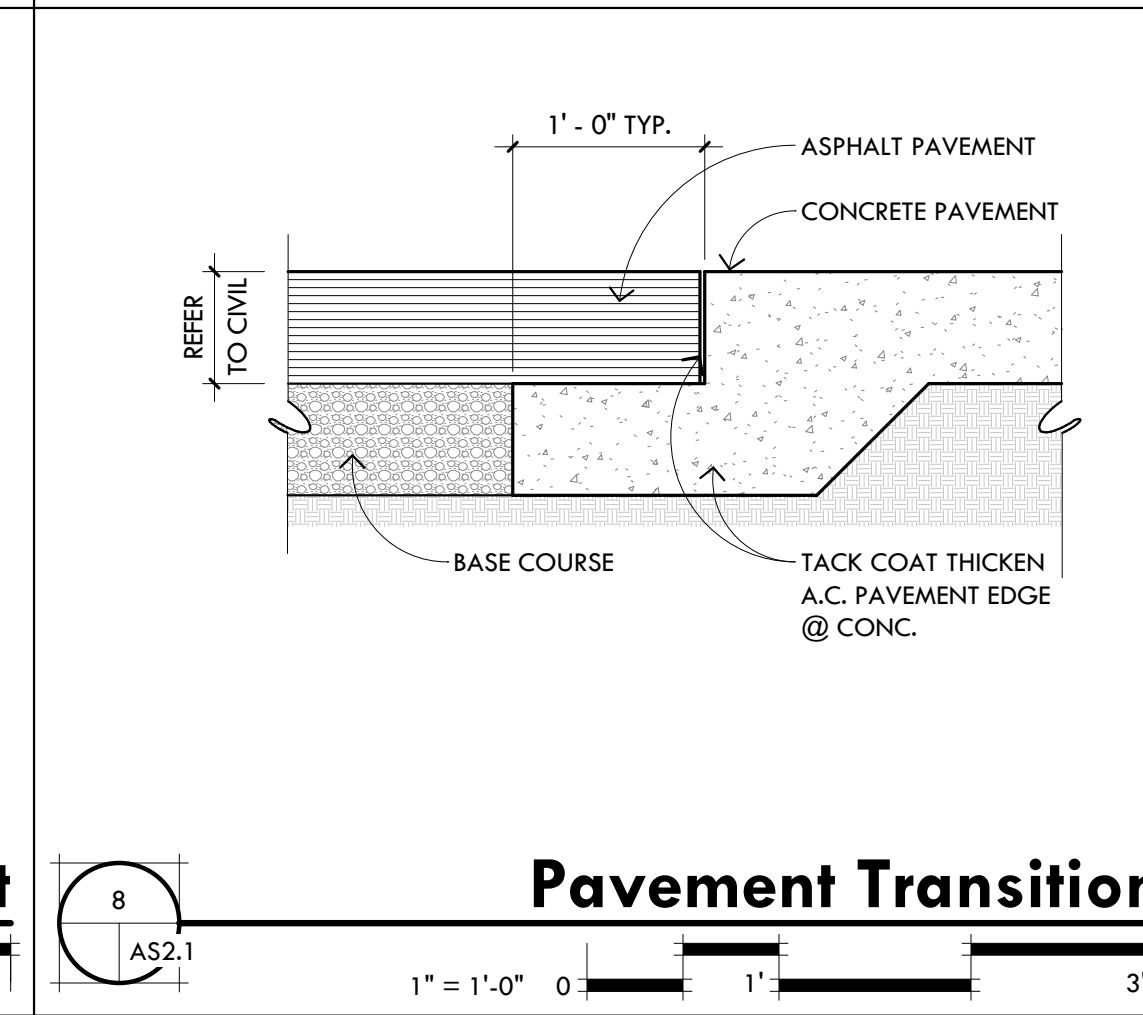
Gate Card Operator Post



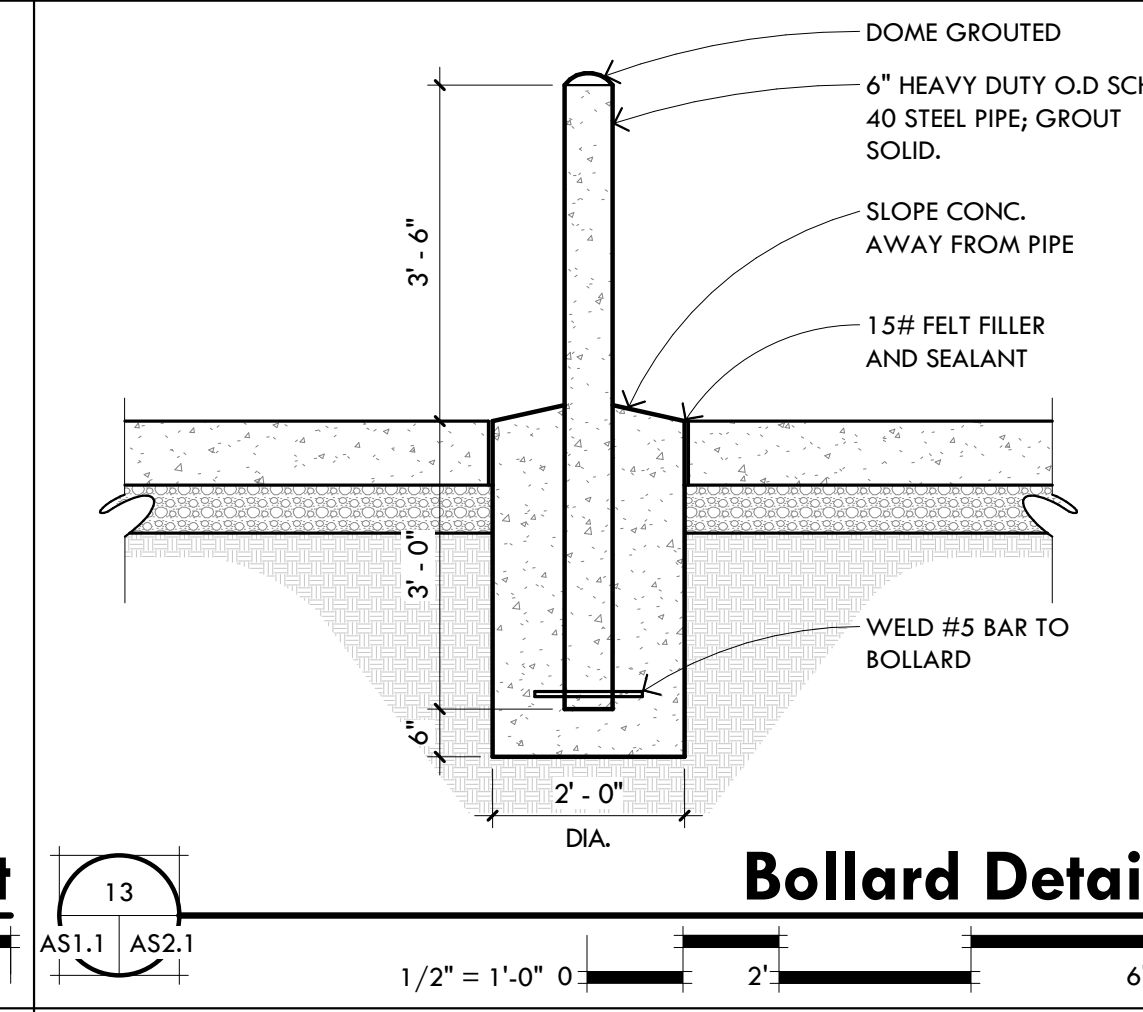
Accessibility Stencil



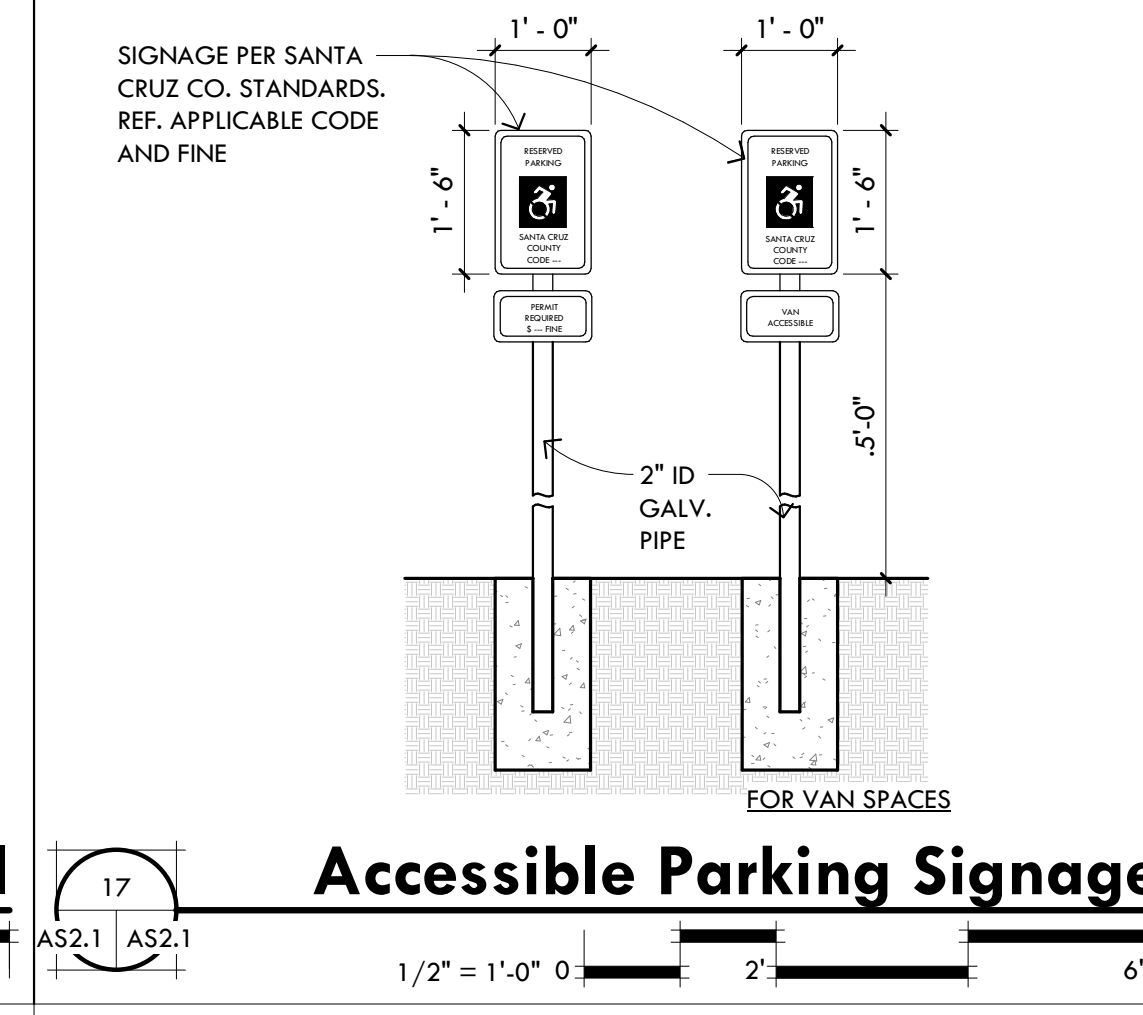
Mounment Sign Opp. Elev.



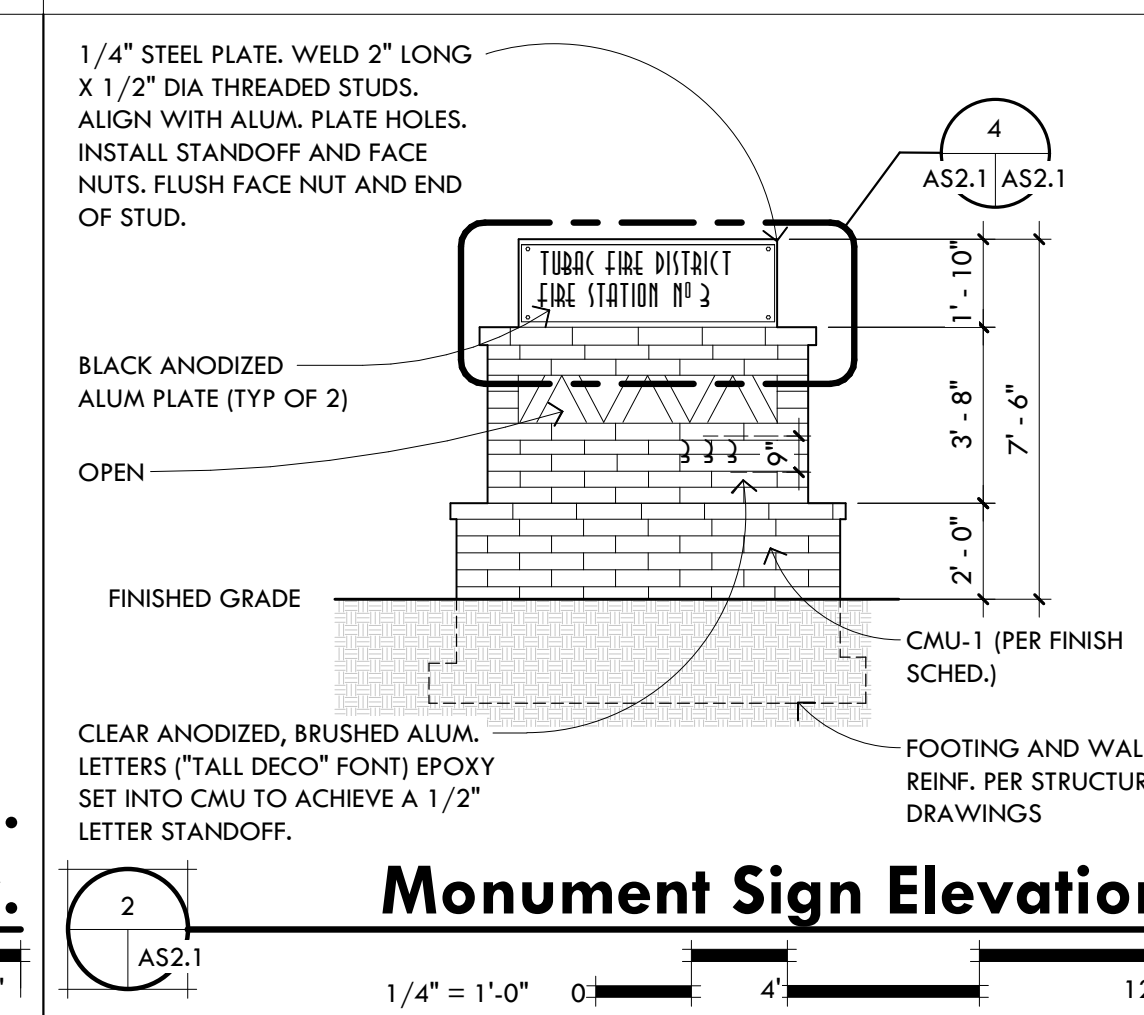
Pavement Transition



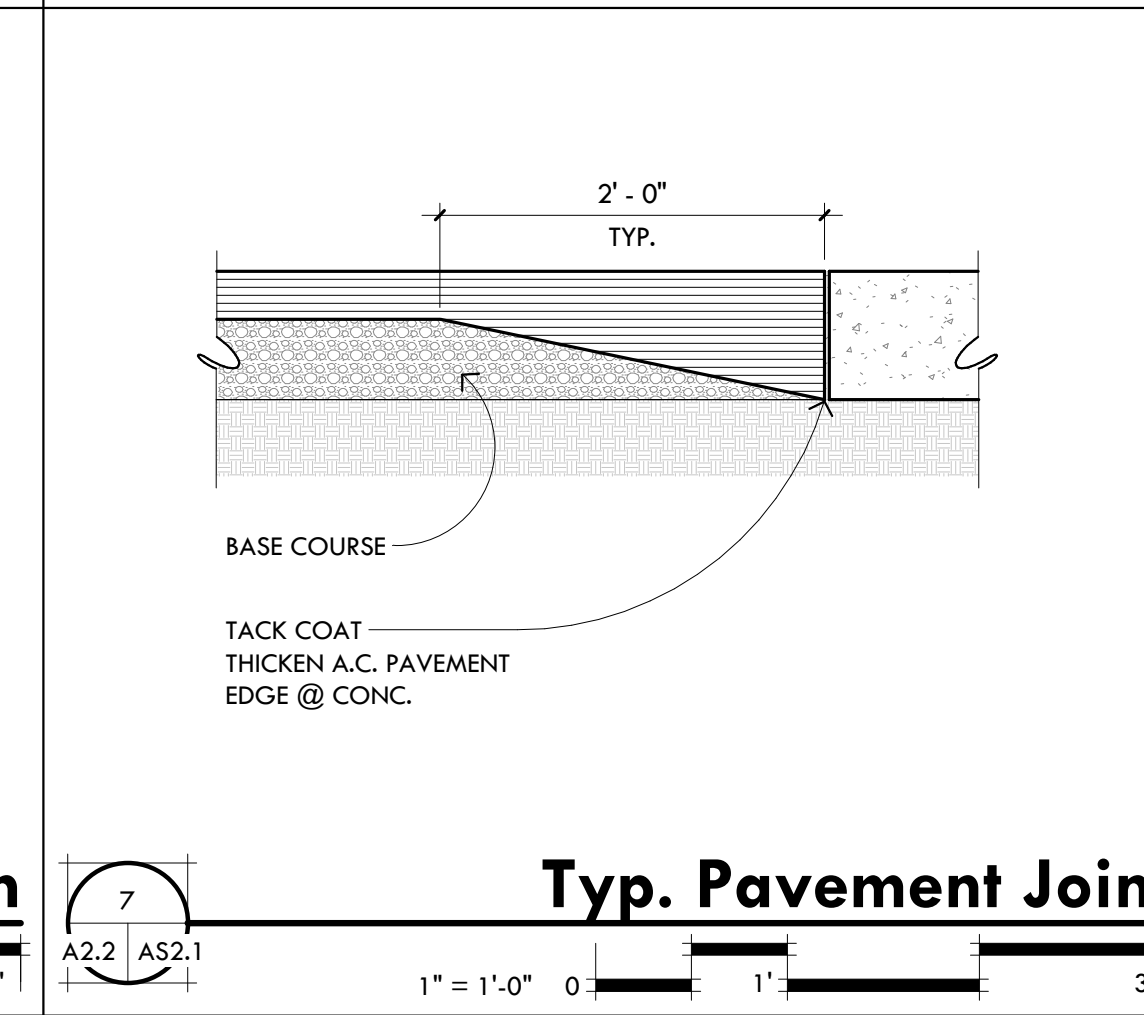
Bollard Detail



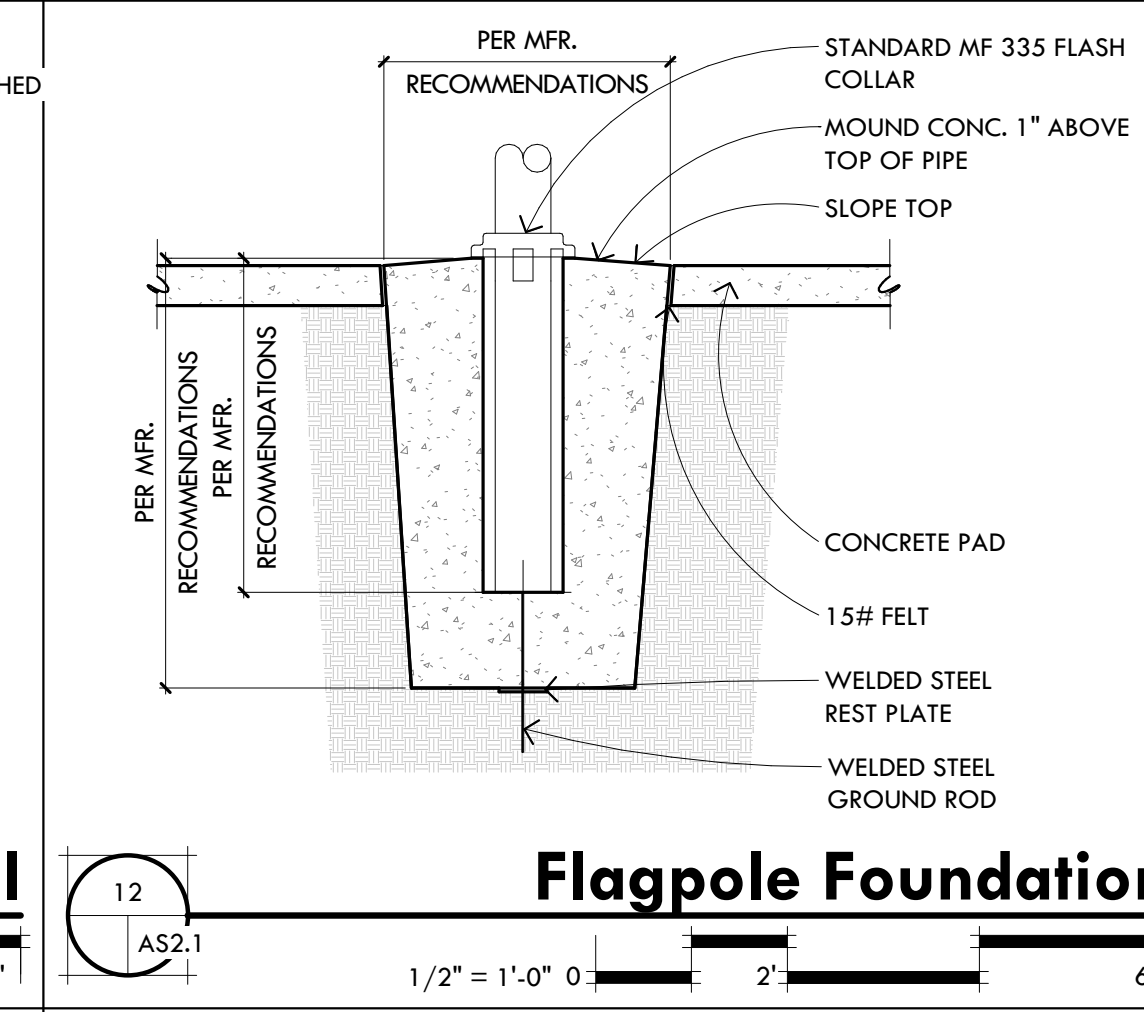
Accessible Parking Signage



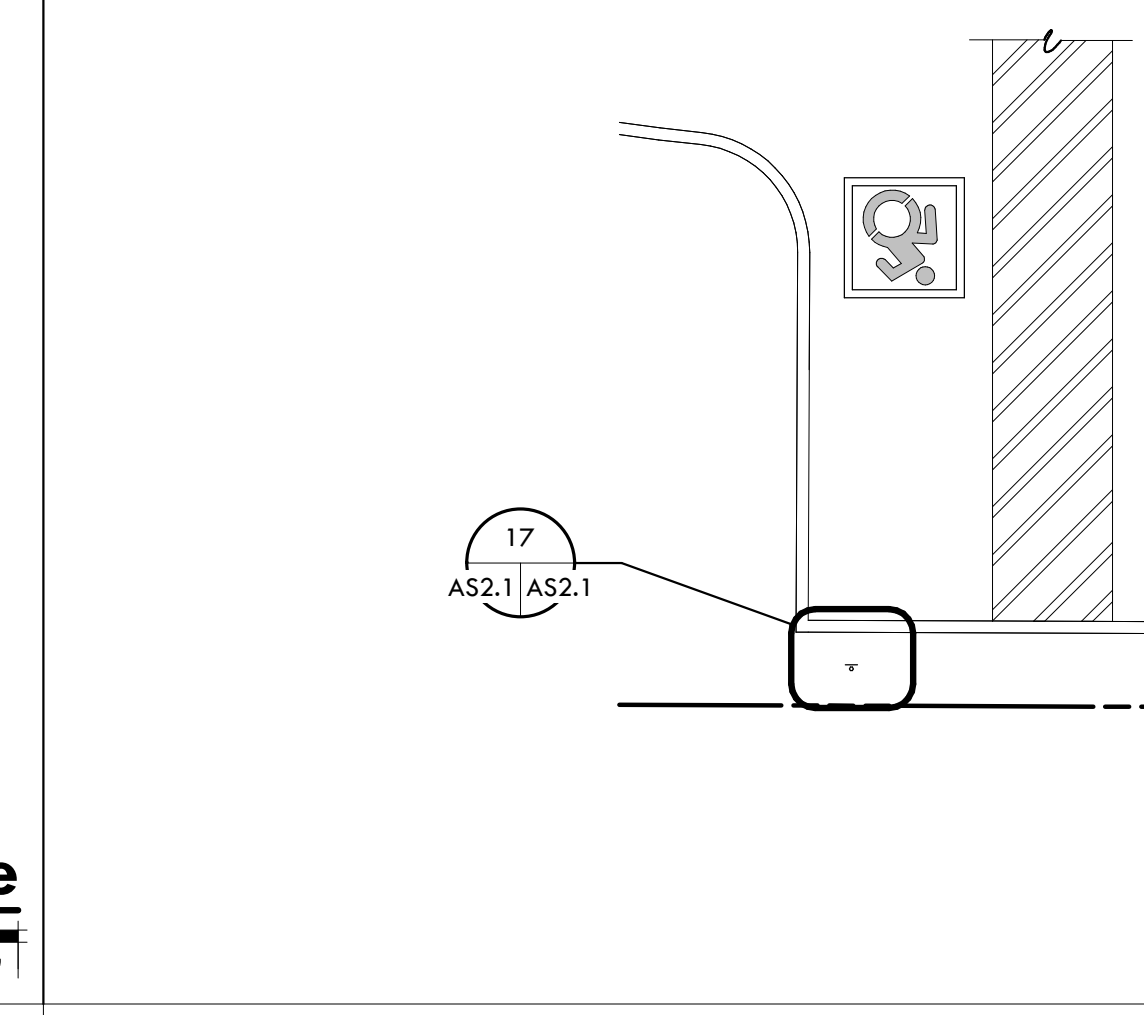
Monument Sign Elevation



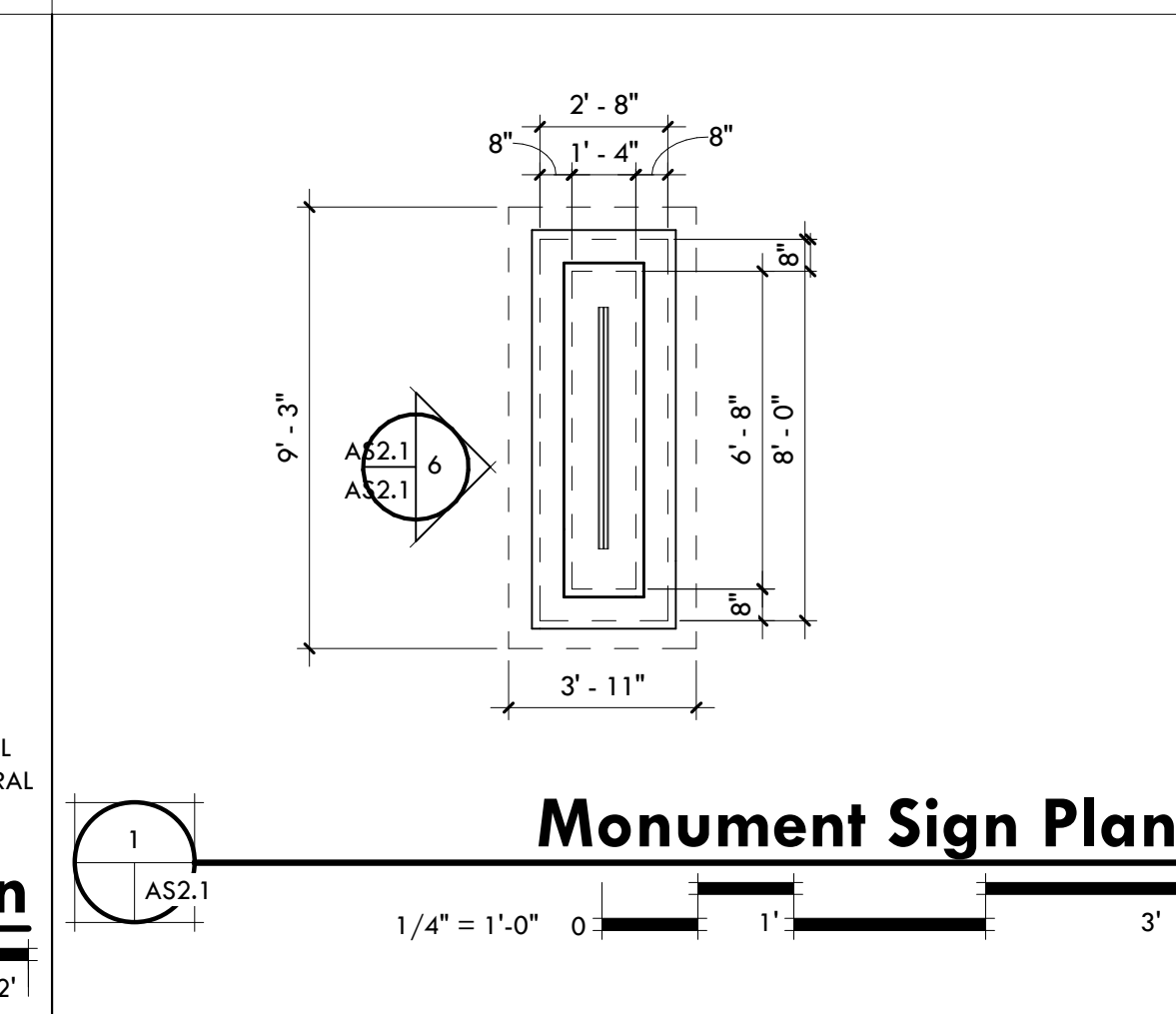
Typ. Pavement Joint



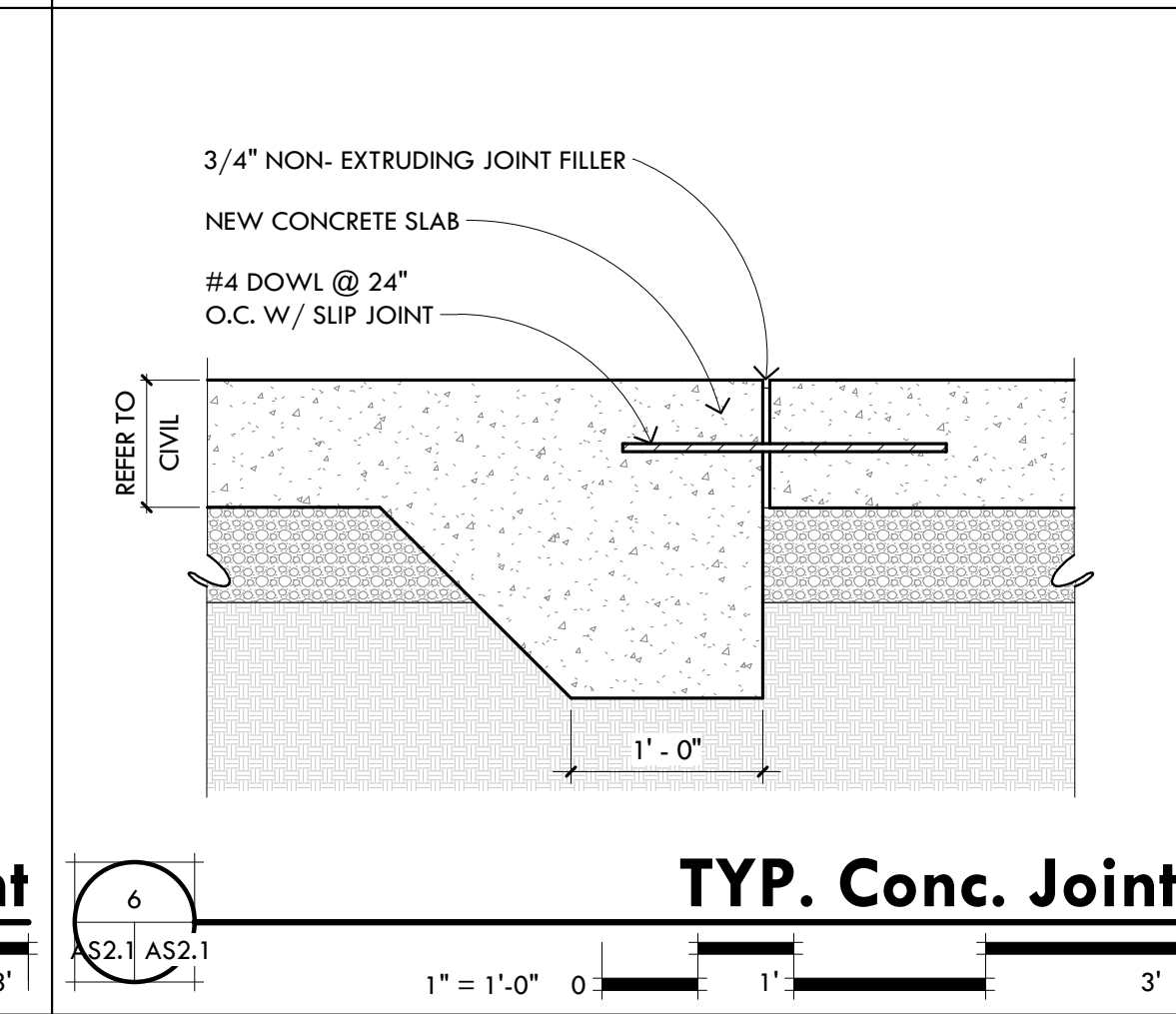
Flagpole Foundation



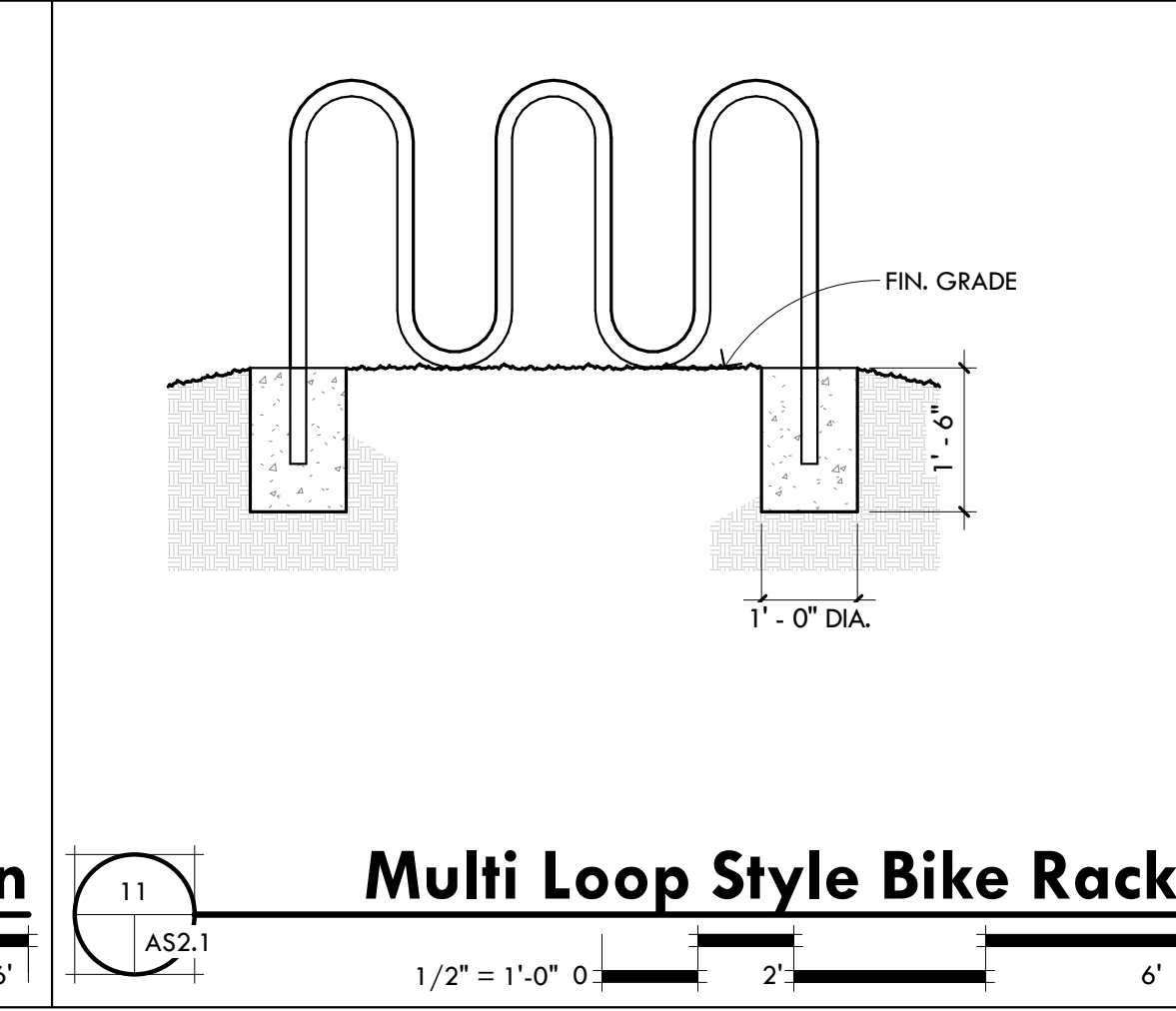
Enlarged Parking



Monument Sign Plan



TYP. Conc. Joint



Multi Loop Style Bike Rack

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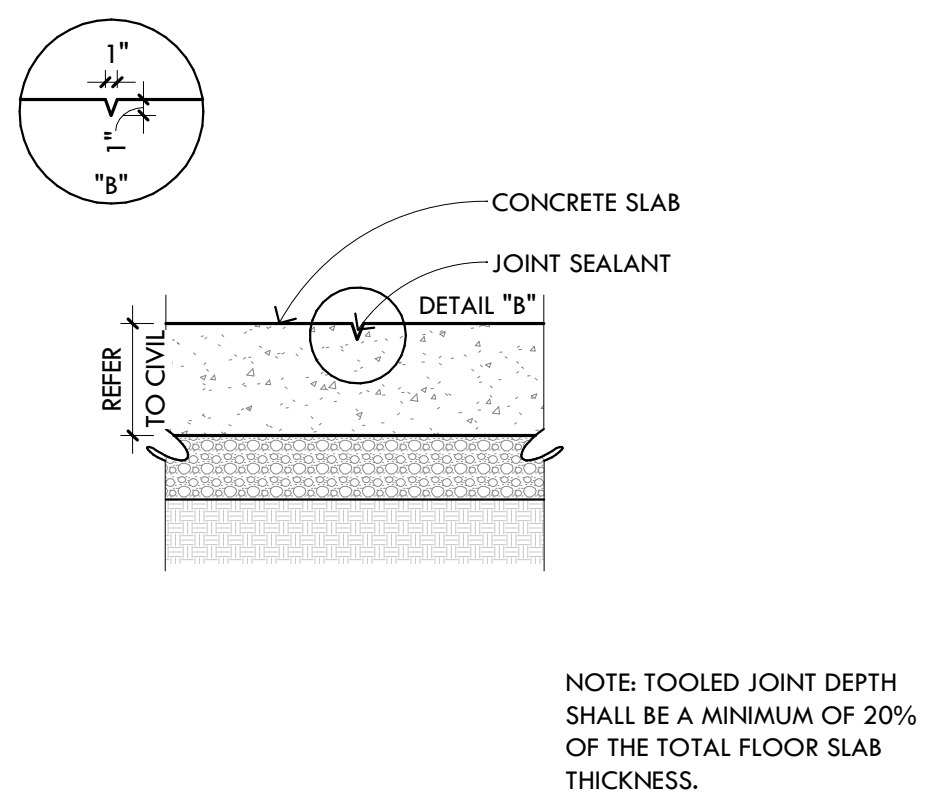
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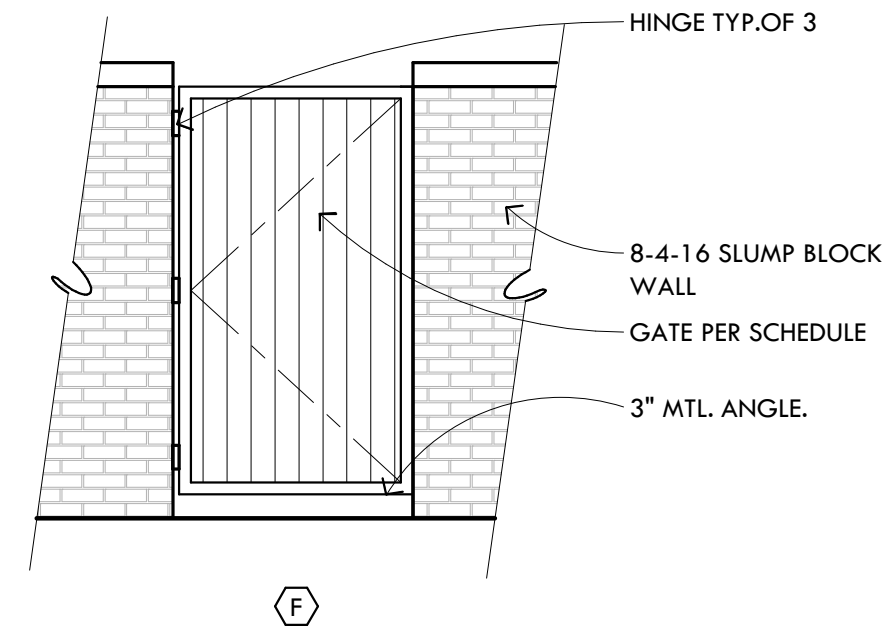
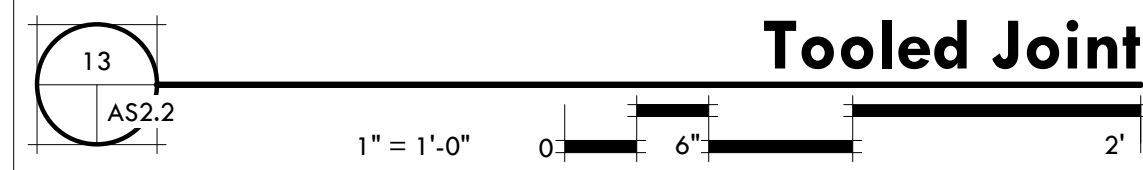
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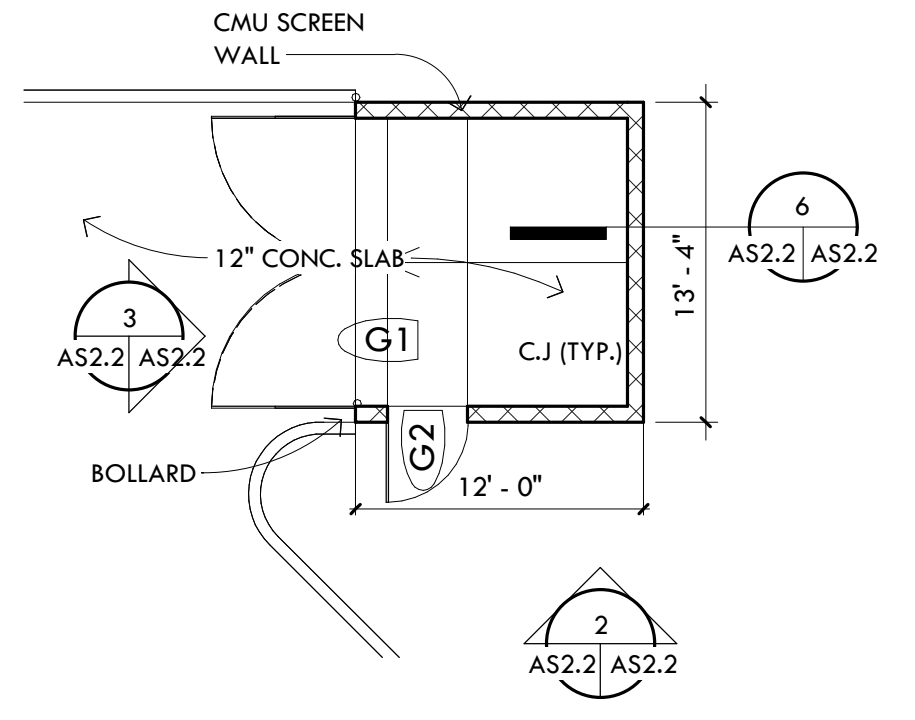
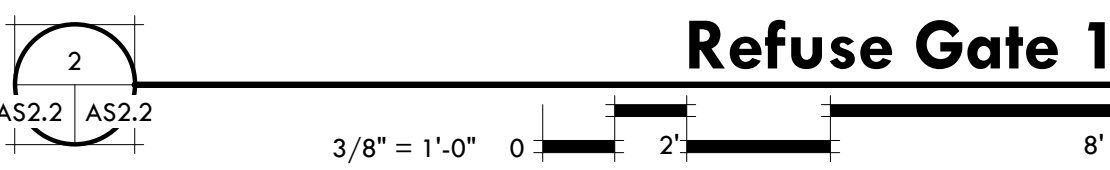
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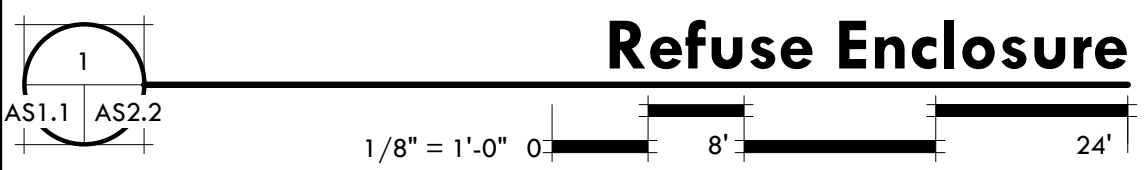
Tooled Joint



Refuse Gate 1

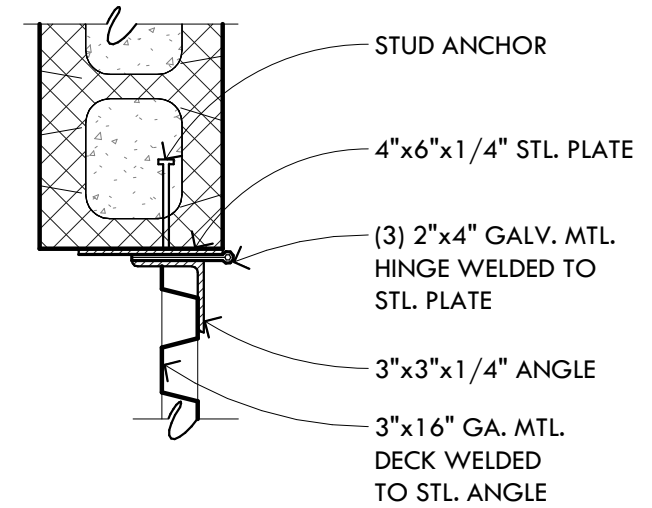


Refuse Enclosure

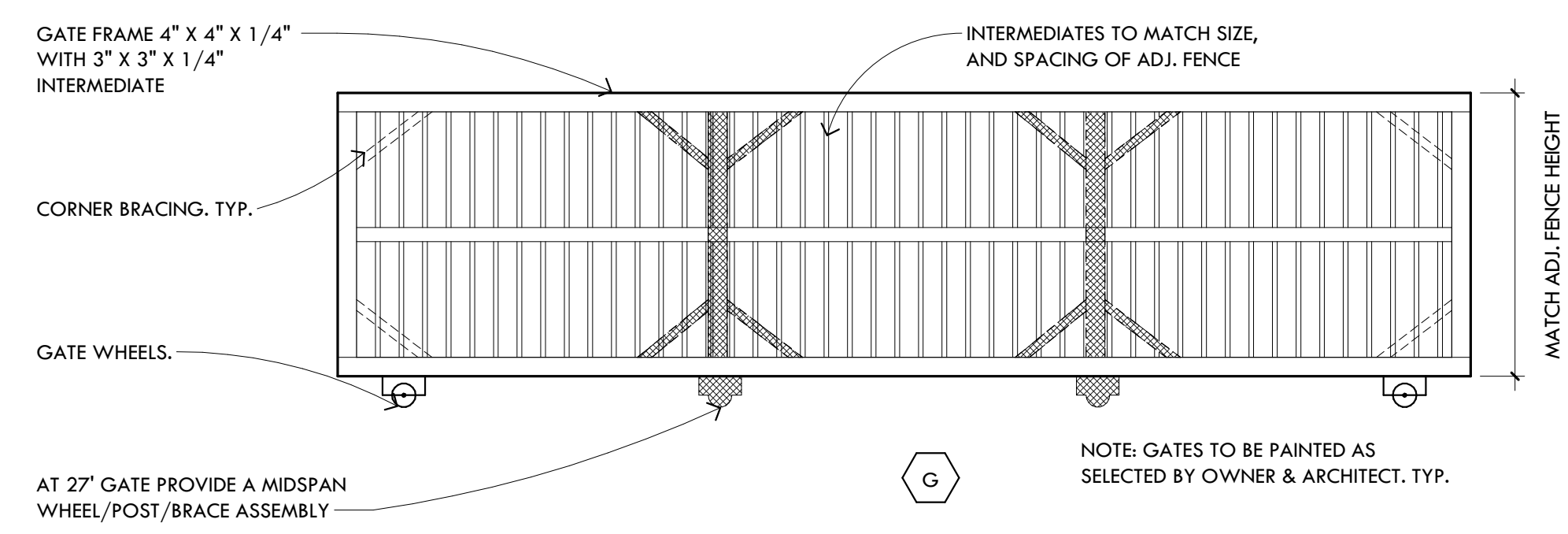
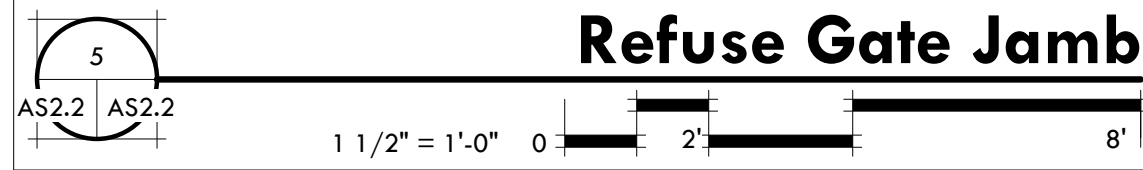


Gate Schedule

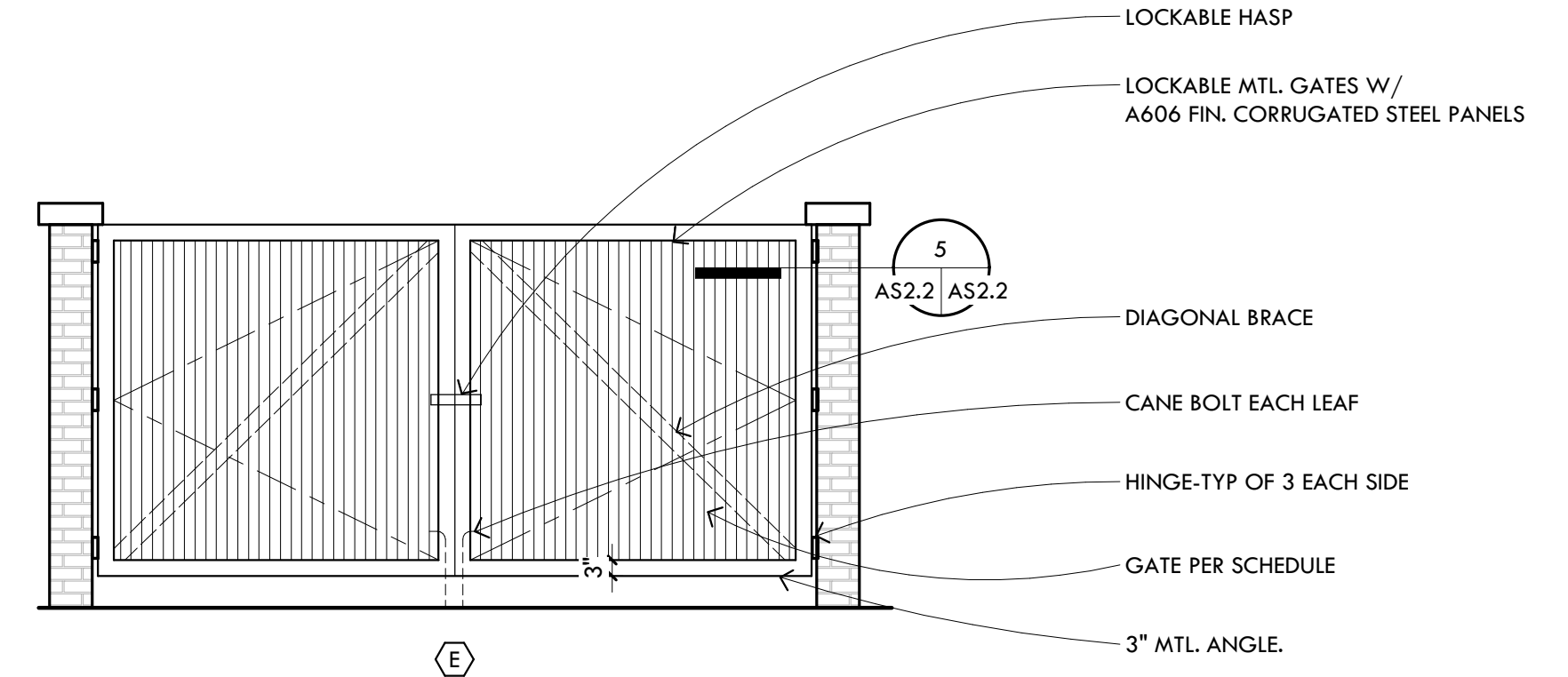
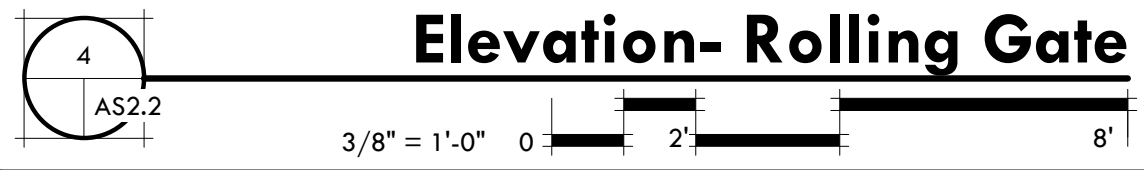
Number	Gate Type	Height	Width	Width	Material	Finish	Detail	Hardware	Rating - Fire	Remarks
G2	F	6' - 4"	3' - 4"	2"	HM	STL	P	-	-	
G3	G	6' - 4"	20' - 0"	2"	HM	STL	P	-	-	



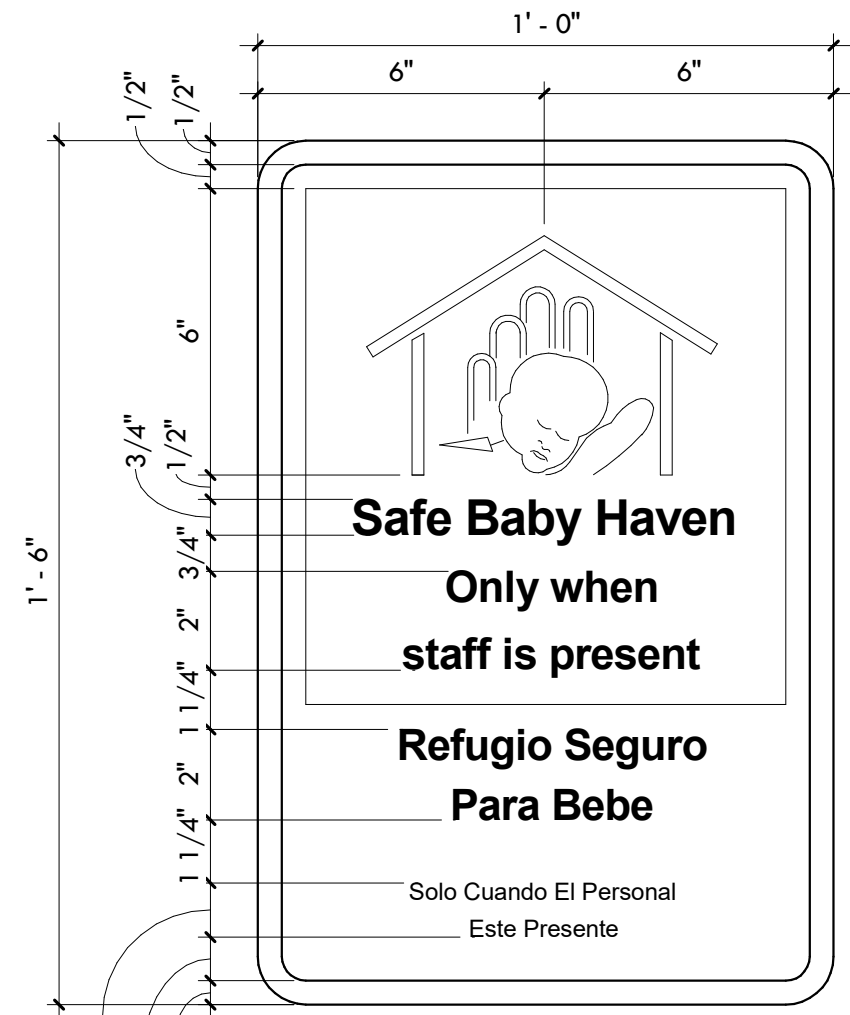
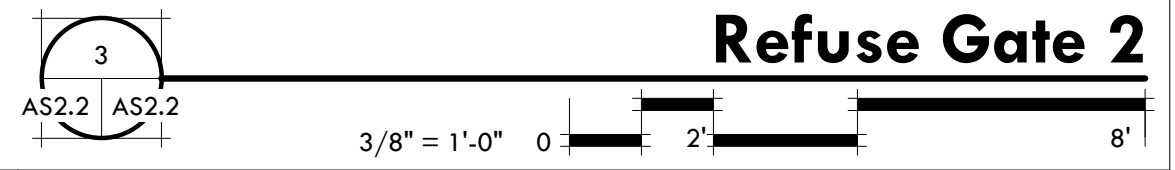
Refuse Gate Jamb



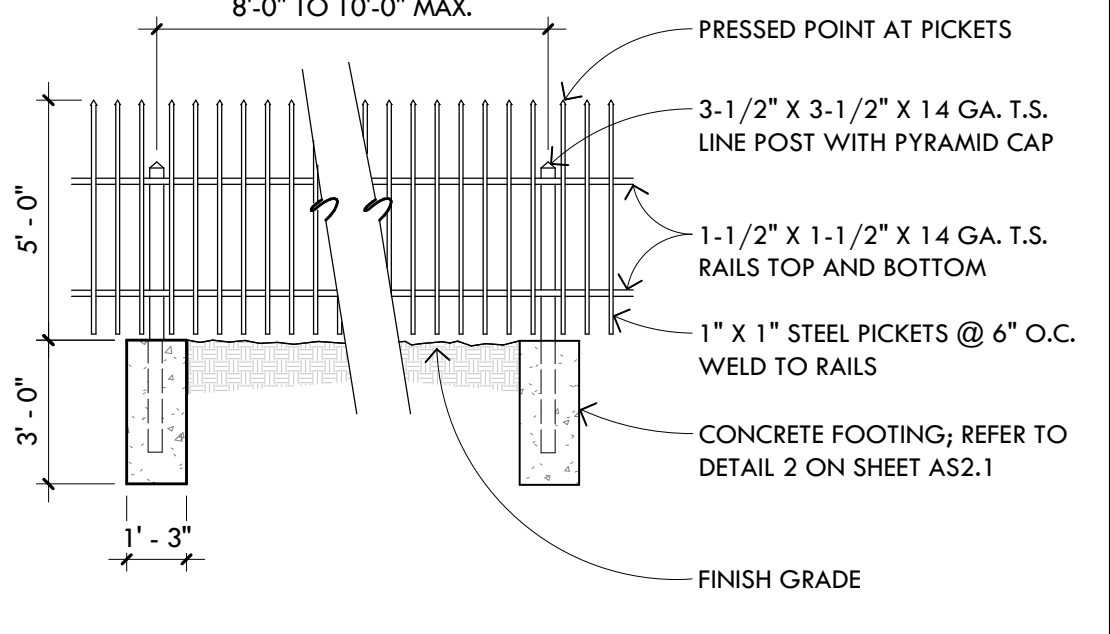
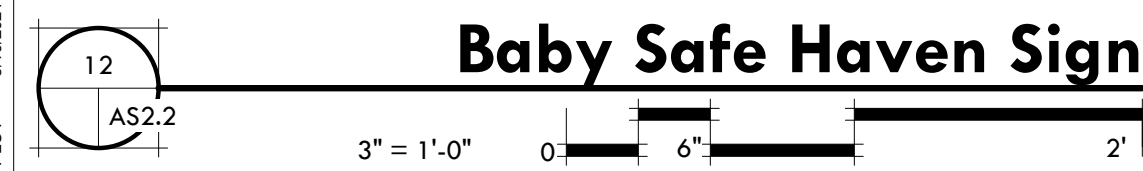
Elevation- Rolling Gate



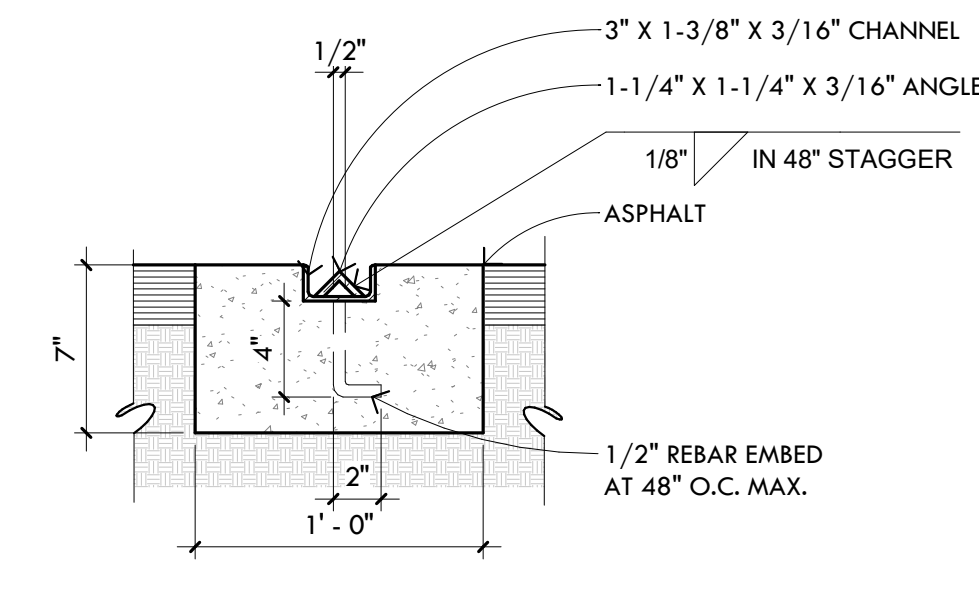
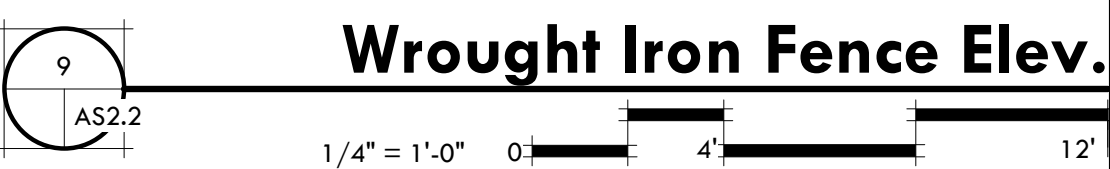
Refuse Gate 2



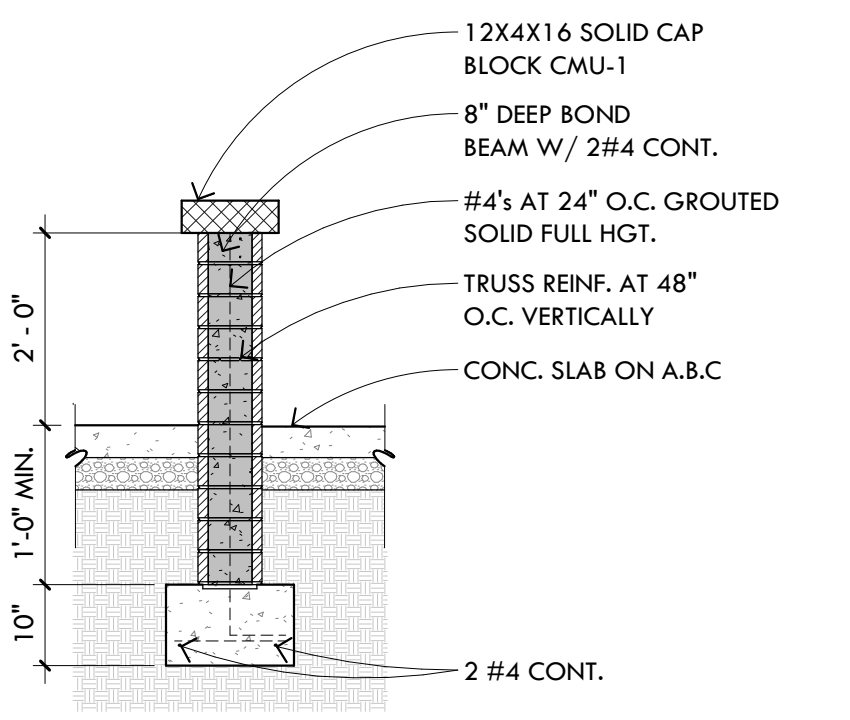
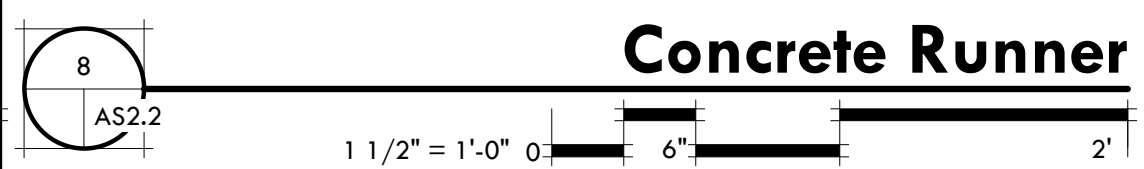
Baby Safe Haven Sign



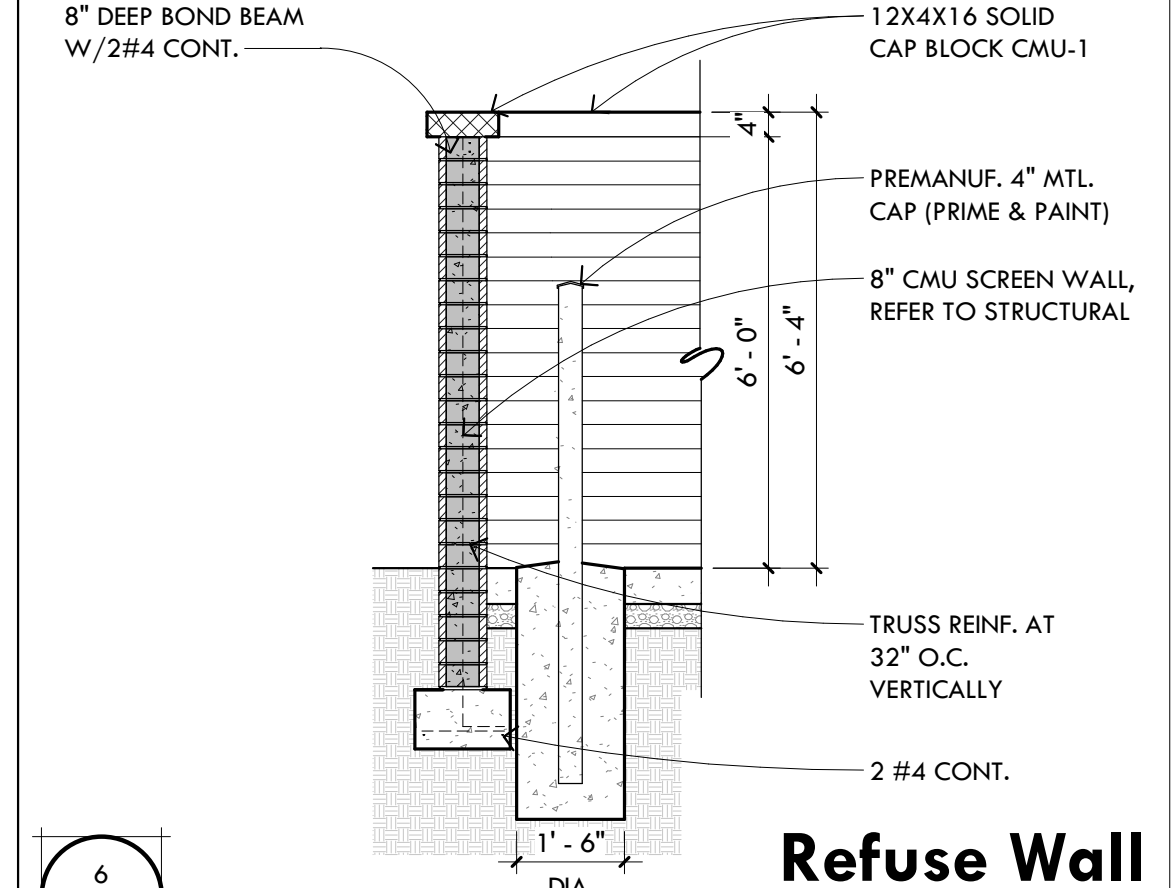
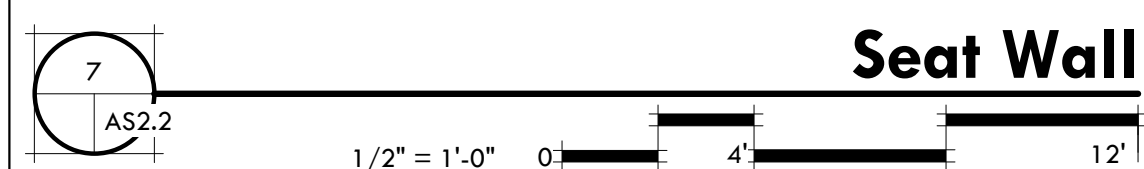
Wrought Iron Fence Elev.



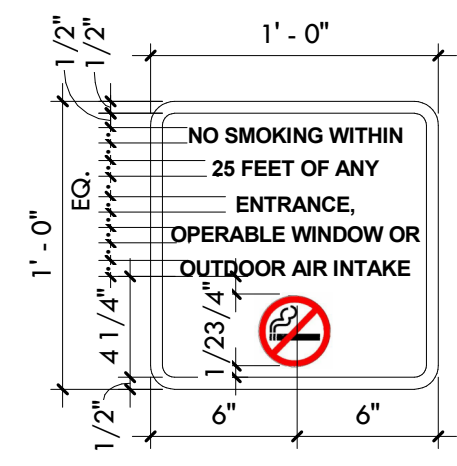
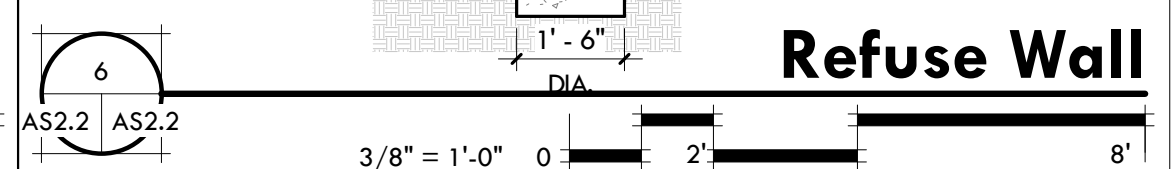
Concrete Runner



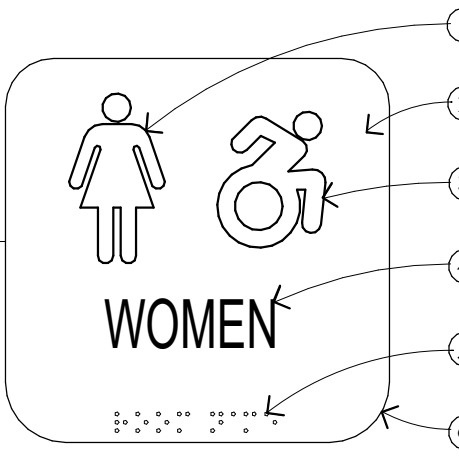
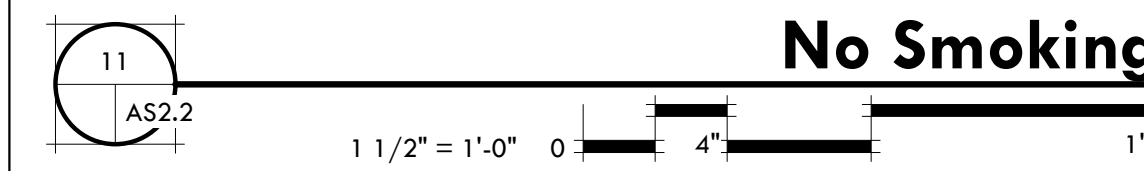
Seat Wall



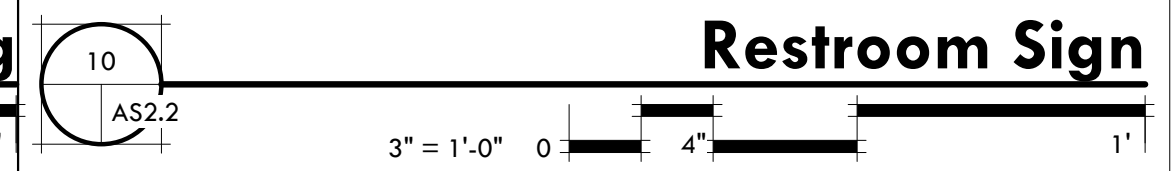
Refuse Wall



No Smoking



Restroom Sign



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5 2 0 . 8 8 2 . 9 9 4 4

Tubac Fire Station #1
2227 I-19 Frontage Rd., Tubac, AZ 85646

Intermediate Plans

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DATE: AUGUST 2024

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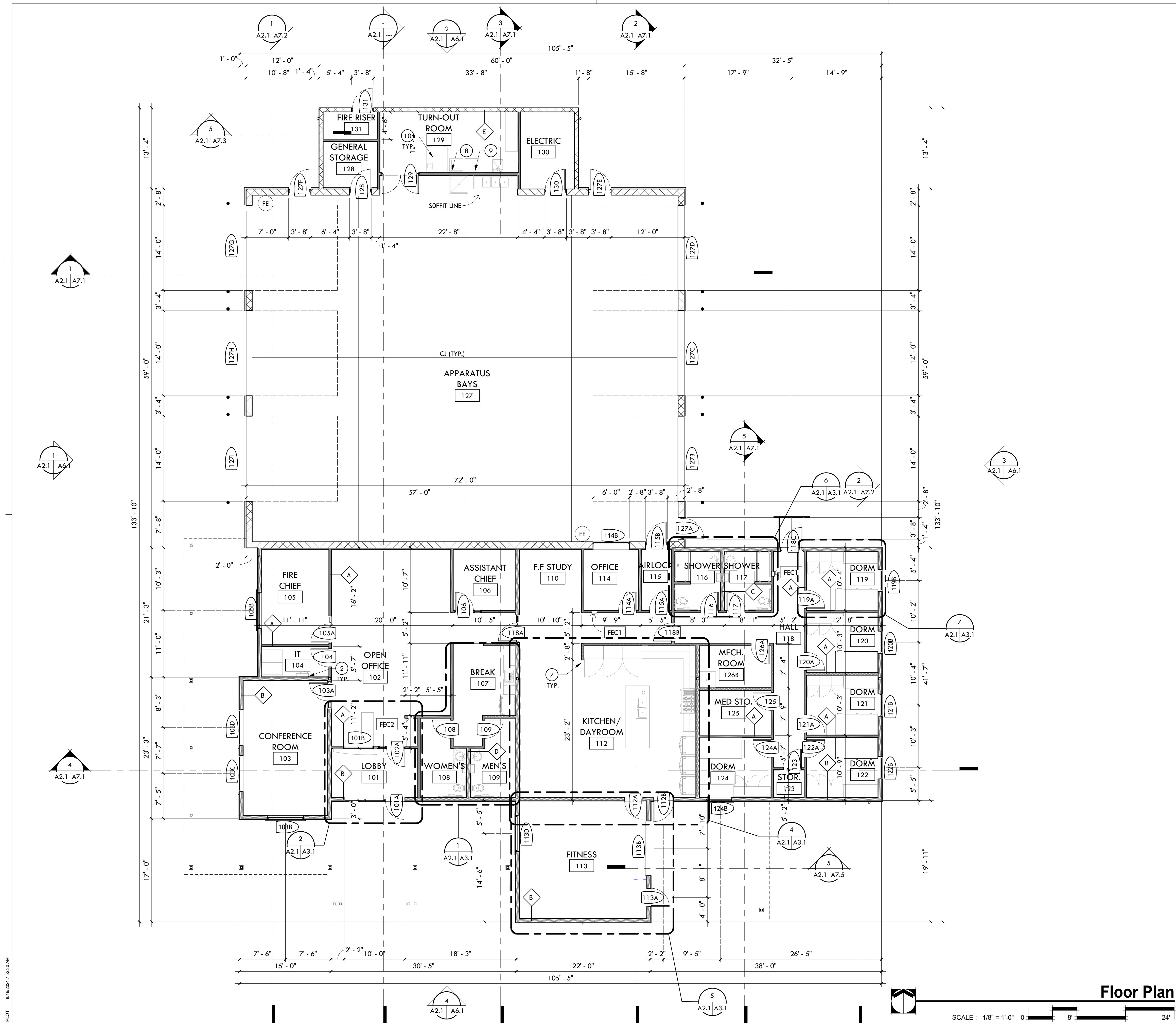
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Site Details

AS2.2



General Notes

1. ALL DIMENSIONS OF METAL STUD WALLS ARE TO THE FACE OF THE STUD.
2. ALL DOORS ON METAL STUD PARTITION WALLS TO BE 4" FROM PERPENDICULAR WALL TO OUTSIDE OF FRAME, UNO.
3. STRUCTURAL GRID LINES ARE TO COLUMN CENTERLINE.
4. REFER TO STRUCTURAL DRAWINGS FOR CONCRETE SLAB CONTROL JOINT LOCATION.
5. FLOOR AND WALL OPENINGS, SLEEVES, VARIATIONS IN THE STRUCTURAL SLAB ELEVATIONS, DEPRESSED AREAS, AND ALL OTHER ARCHITECTURAL, MECHANICAL, ELECTRICAL, AND OR CIVIL REQUIREMENTS MUST BE COORDINATED BY THE CONTRACTOR BEFORE THE CONTRACTOR PROCEEDS WITH CONSTRUCTION.
6. DETAILS MARKED "TYP" SHALL APPLY IN ALL CASES UNLESS SPECIFICALLY INDICATED OTHERWISE.
7. WHERE NO SPECIFIC DETAIL IS SHOWN, THE FRAMING OR CONSTRUCTION SHALL BE IDENTICAL OR SIMILAR TO THAT INDICATED FOR LIKE CASES OF CONSTRUCTION ON THE PROJECT.
8. DETAILS MARKED "SIM" MEANS COMPARABLE CHARACTERISTICS FOR THE CONDITIONS NOTED. VERIFY SIMILAR DIMENSIONS OR NOTES ON THE DRAWINGS.
9. USE MOISTURE RESISTANT GYPSUM WALLBOARD ON ALL PARTITIONS WHICH ARE EXPOSED TO WATER OR MOISTURE FOR EXAMPLE, JANITOR'S CLOSETS, RESTROOMS, AND LAUNDRY ROOMS.
10. SLOPE FLOORS TO DRAINS AS SHOWN ON DRAWINGS.
11. SLOPE ALL CONCRETE SIDEWALKS AWAY FROM EXTERIOR DOORS A MAXIMUM OF 2%.

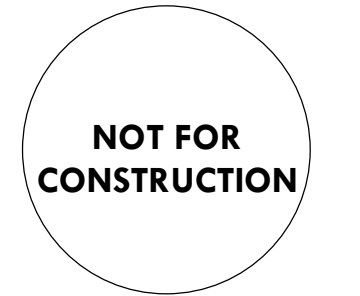
Keynotes

- 1 GENERATOR ANNUNCIATOR PANEL, REFER TO ELECTRICAL
- 2 ELECTRICAL PANELS
- 3 RETURN GRILLE ON WALL, COORDINATE LOCATION WITH MECHANICAL
- 4 AIR COMPRESSOR, REFER TO ME & P DRAWINGS
- 5 ICE READY MACHINE
- 7 CORNER GUARD
- 8 WASHER - O.F.O.I
- 9 DRYER - O.F.O.I
- 10 COMMERCIAL WASHER
- 11 FIRE DEPARTMENT CONNECTION
- 12 OVERHEAD DOORS CONTROL STATION, REFER TO ELECTRICAL
- 14 FIRE ALARM CONTROL PANEL
- 15 CARD READER PEDESTAL
- 16 ELECTRICAL EQUIPMENT

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Tubac Fire Station #1
 2227 I-19 Frontage Rd., Tubac, AZ 85646
 Intermediate Plans



PROJECT NO: 23.21.00
 CHECKED BY: JSA
 DATE: AUGUST 2024

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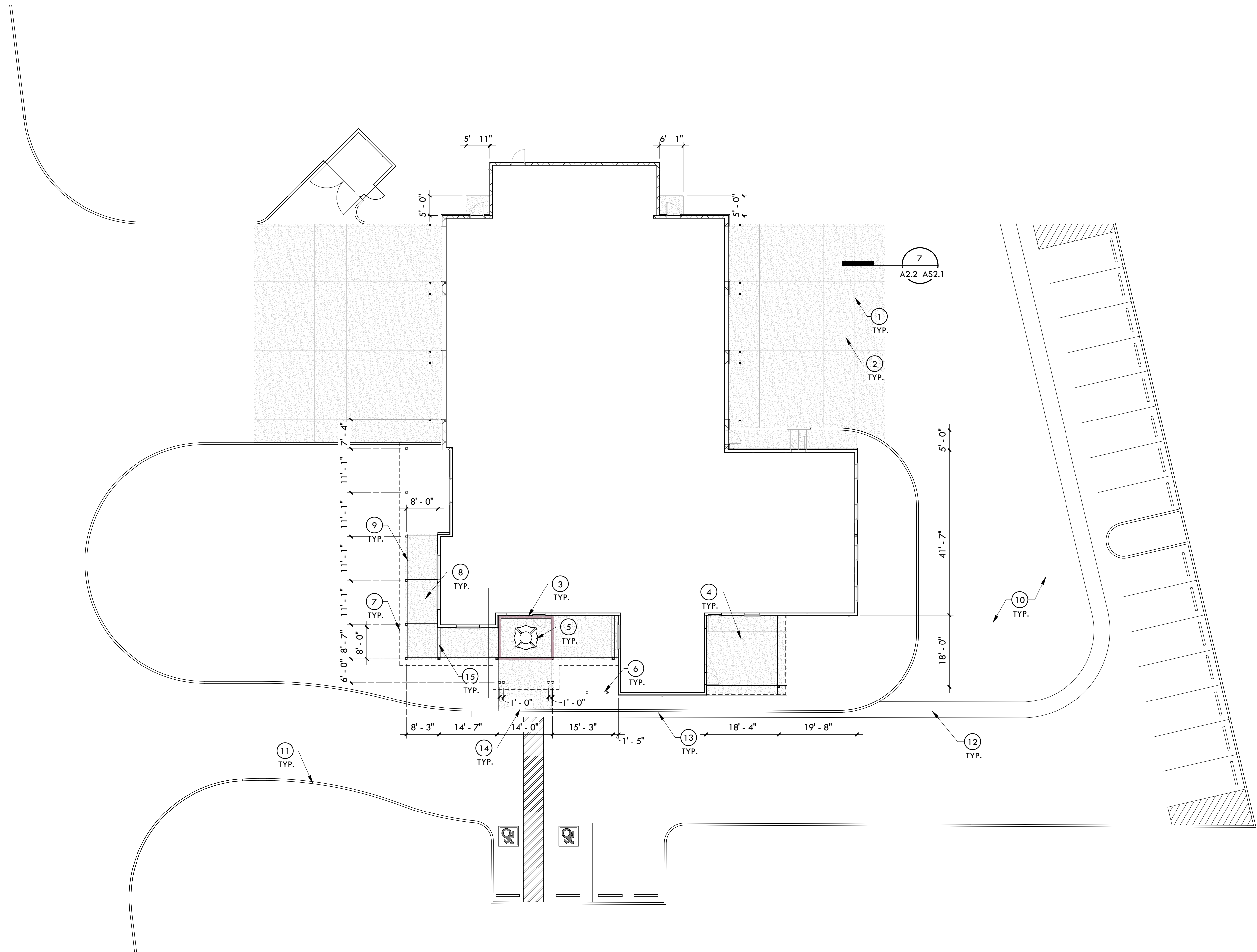
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Floor Plan

SCALE: 1/8" = 1'-0" 0 8' 24'

PLOT: 8/19/2024 7:52:30 AM



General Notes

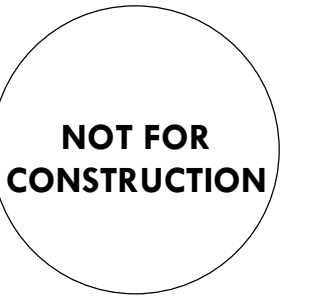
Keynotes

- ① JOINT (TYP.)
- ② CONCRETE PAVING
- ③ COLORED CONCRETE
- ④ CONCRETE SLAB
- ⑤ FIRE FIGHTERS SEAL
- ⑥ BIKE RACK
- ⑦ ROOF O.H.
- ⑧ CONCRETE SIDEWALK
- ⑨ TOOLED JOINT (TYP.)
- ⑩ ASPHALT PAVING
- ⑪ CONCRETE CURB
- ⑫ CONCRETE SPILLWAY
- ⑬ RIP-RAP
- ⑭ ACCESS RAMP
- ⑮ EXPOSED AGGREGATE

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Tubac Fire Station #1
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 Intermediate Plans



PROJECT NO:
23.21.00

DATE:
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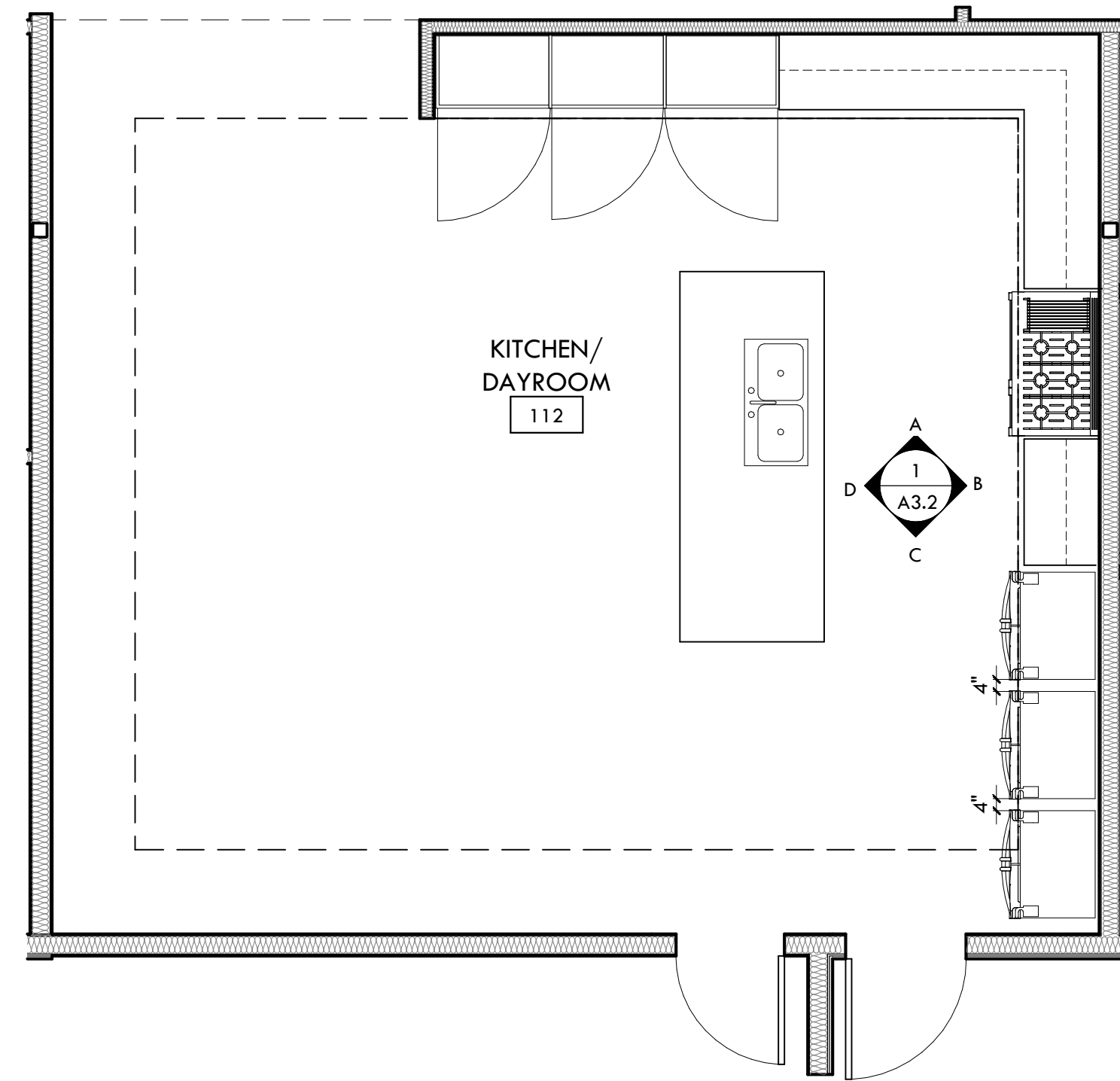
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Hardscape Plan

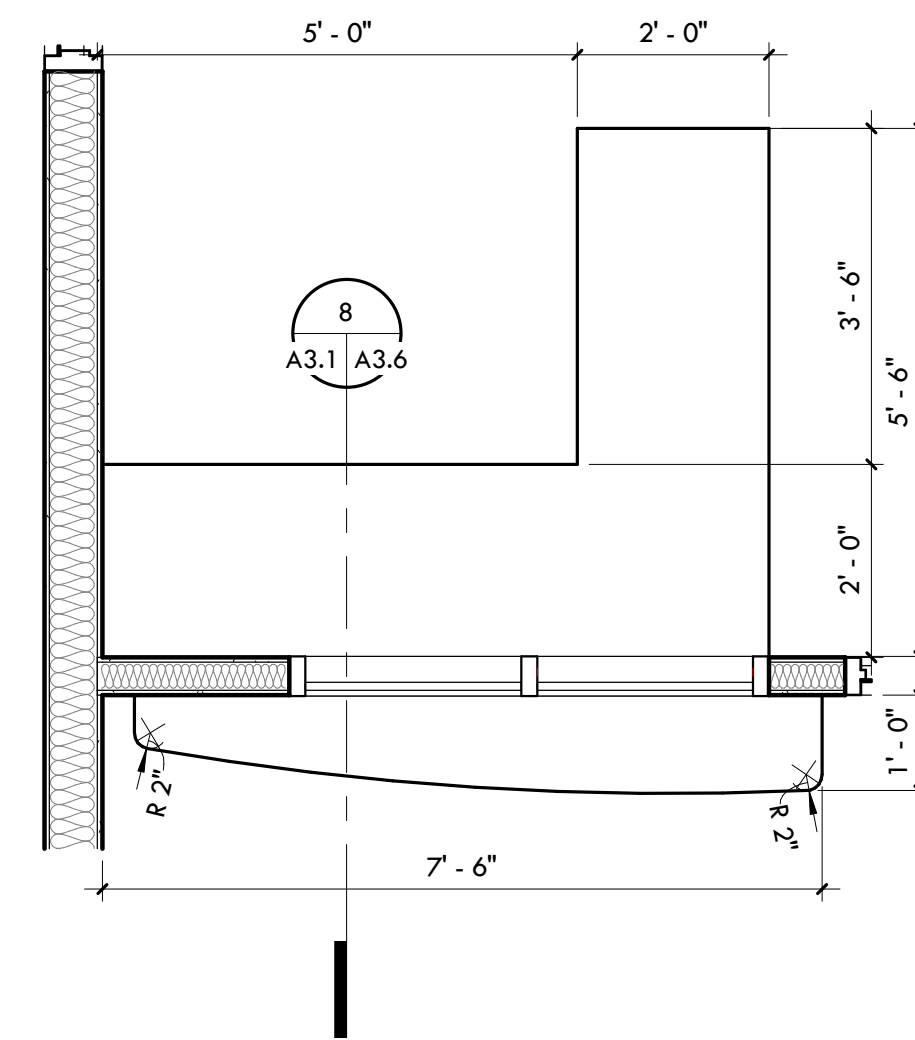
SCALE: 1/16" = 1'-0"

Hardscape Plan

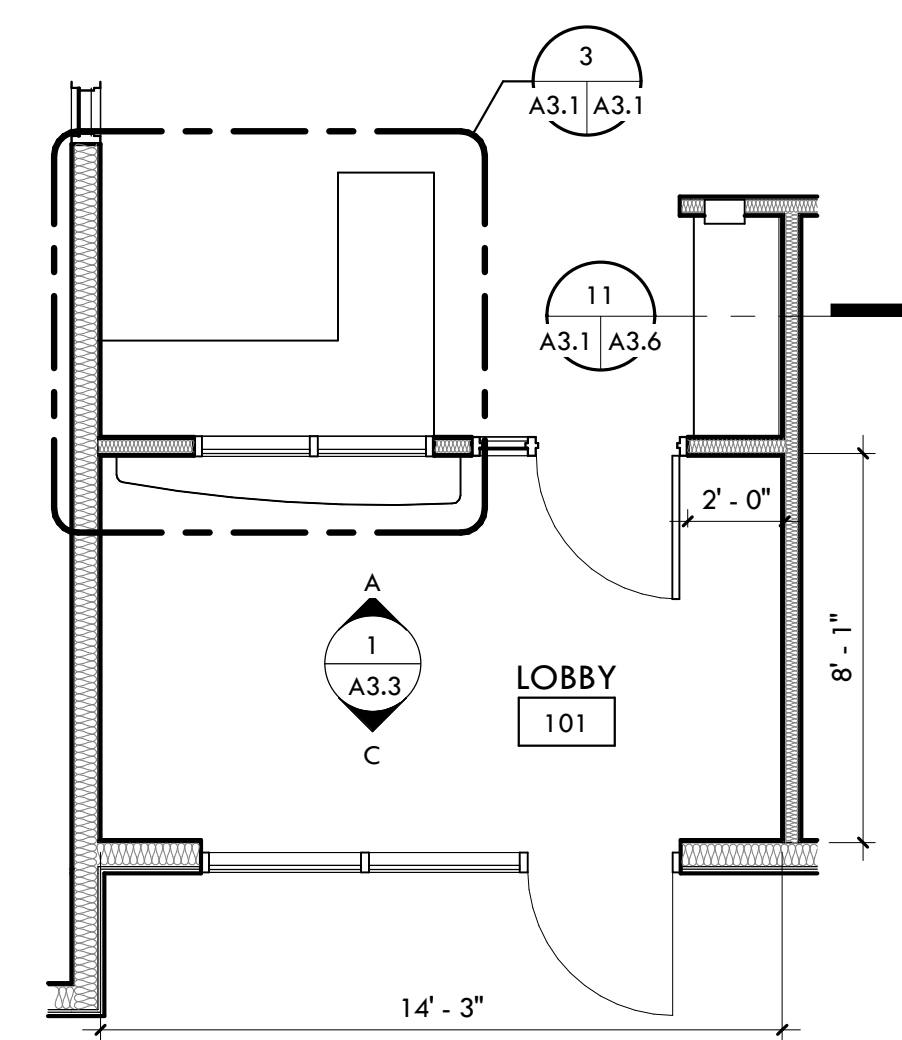
A22



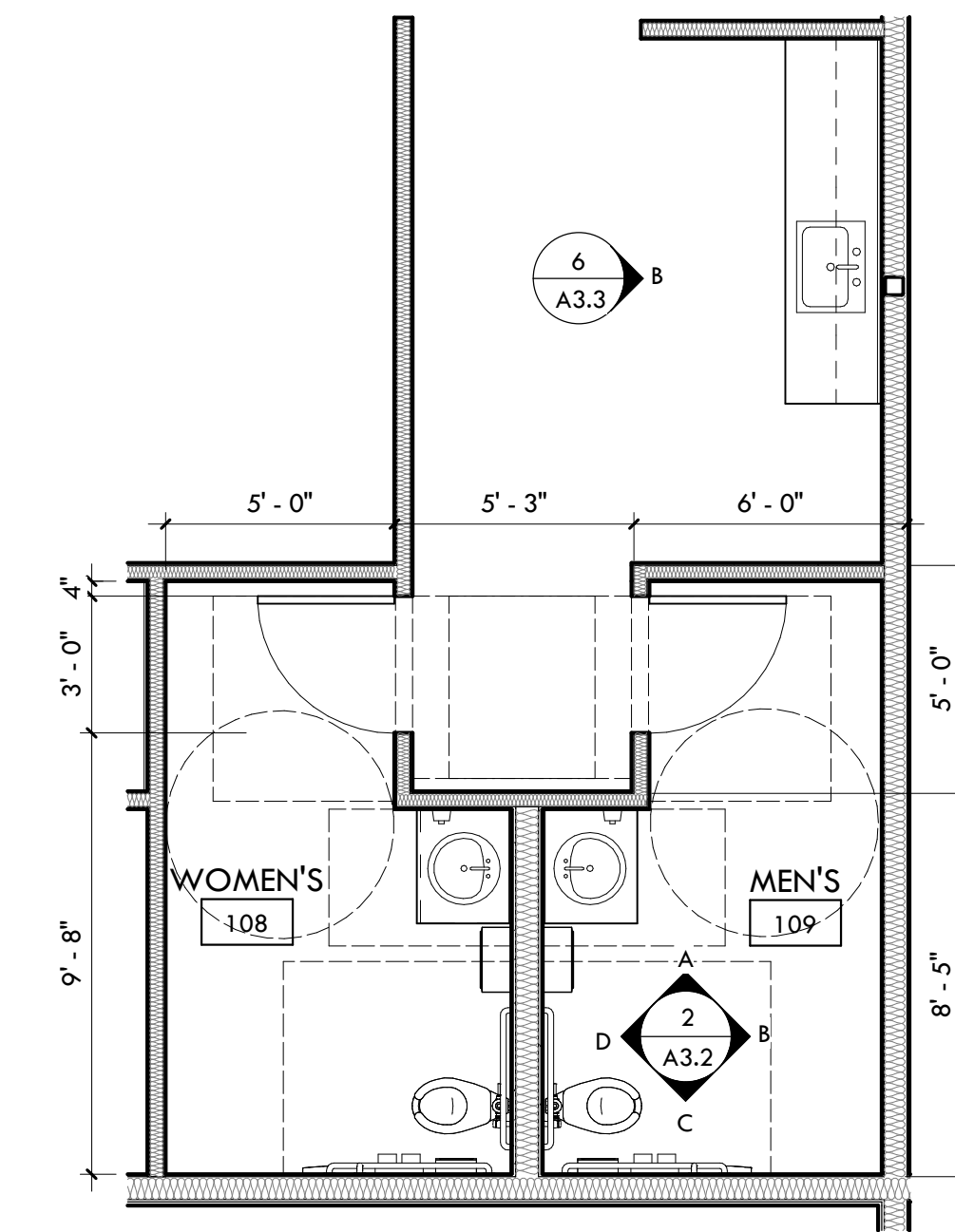
Enlarged Plan- Kitchen
 4
 A2.1 A3.1
 1/4" = 1'-0" 0' 4' 12'



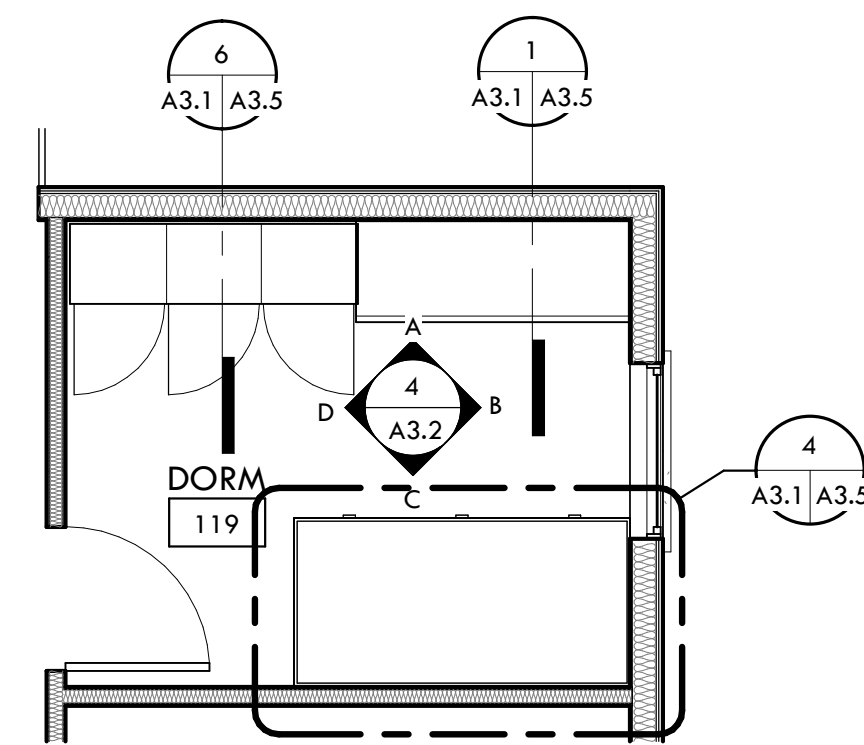
Counter Enlarged Plan
 8
 A3.1 A3.6
 1/2" = 1'-0" 0' 2' 6'



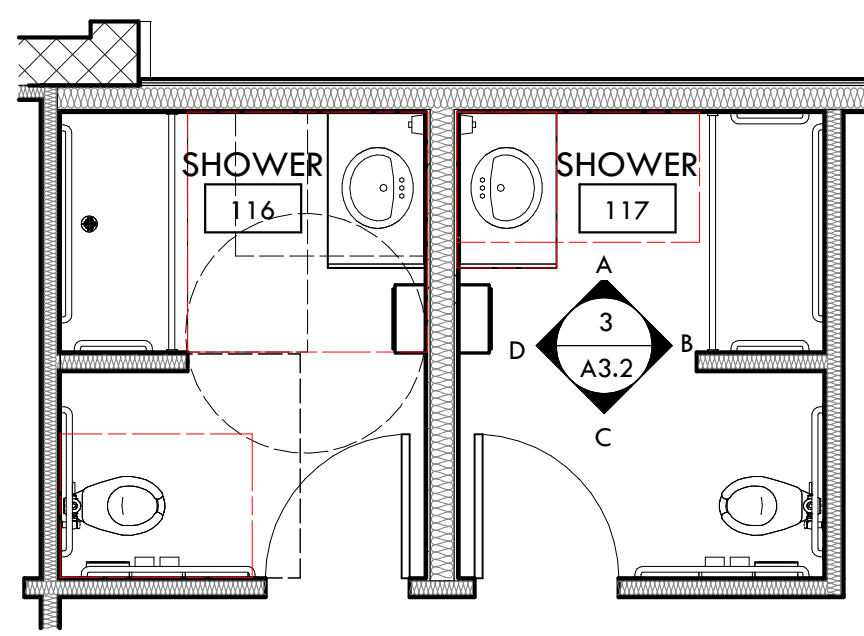
Enlarged Plan- Lobby
 11
 A3.1 A3.6
 1/4" = 1'-0" 0' 4' 12'



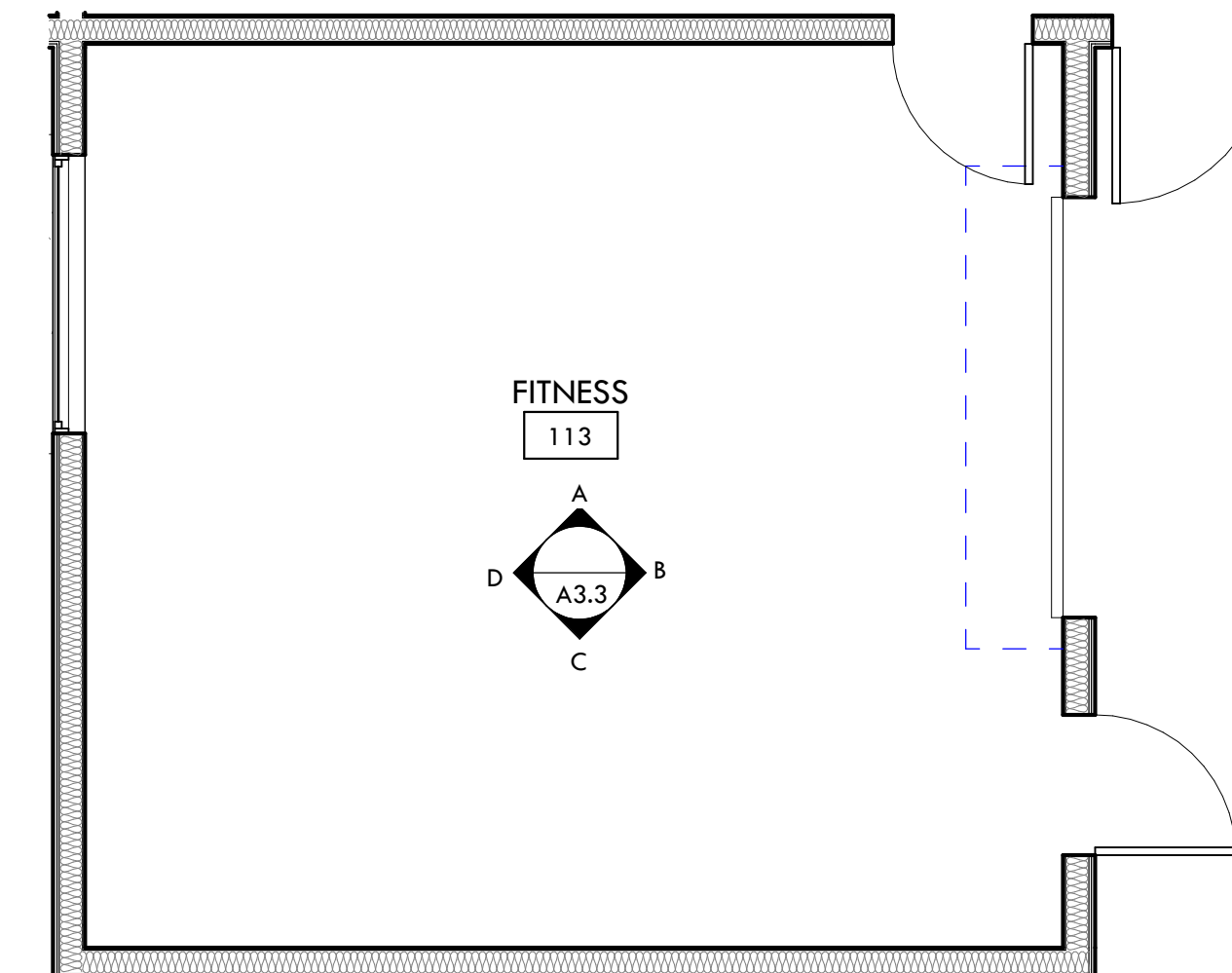
Enlarged Plan- Restrooms
 2
 A2.1 A3.1
 1/4" = 1'-0" 0' 4' 12'



Enlarged Plan- Dorm
 4
 A3.1 A3.5
 1/4" = 1'-0" 0' 4' 12'



Enlarged Plan- Showers
 3
 A3.1 A3.2
 1/4" = 1'-0" 0' 4' 12'



Fitness Enlarged Plan
 1
 A2.1 A3.1
 1/4" = 1'-0" 0' 4' 12'

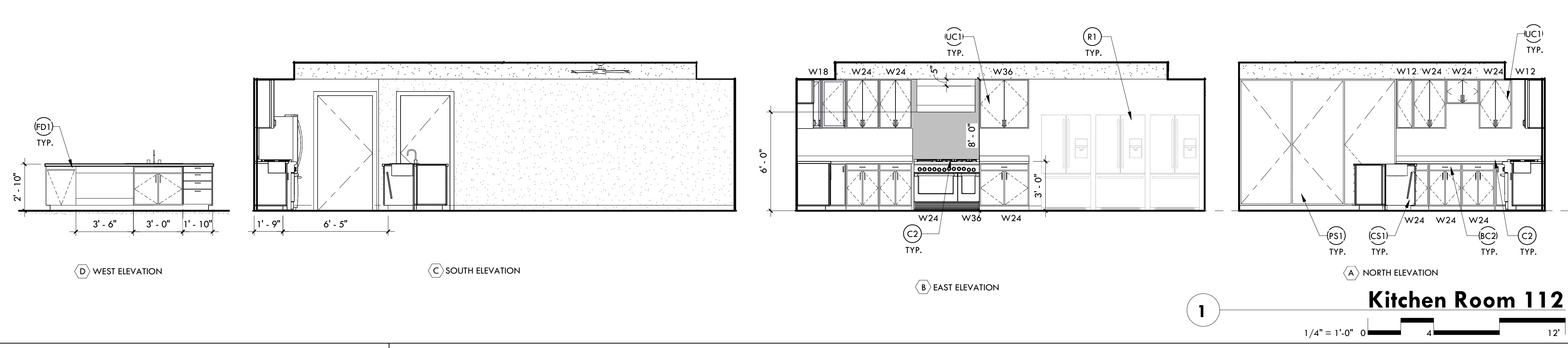
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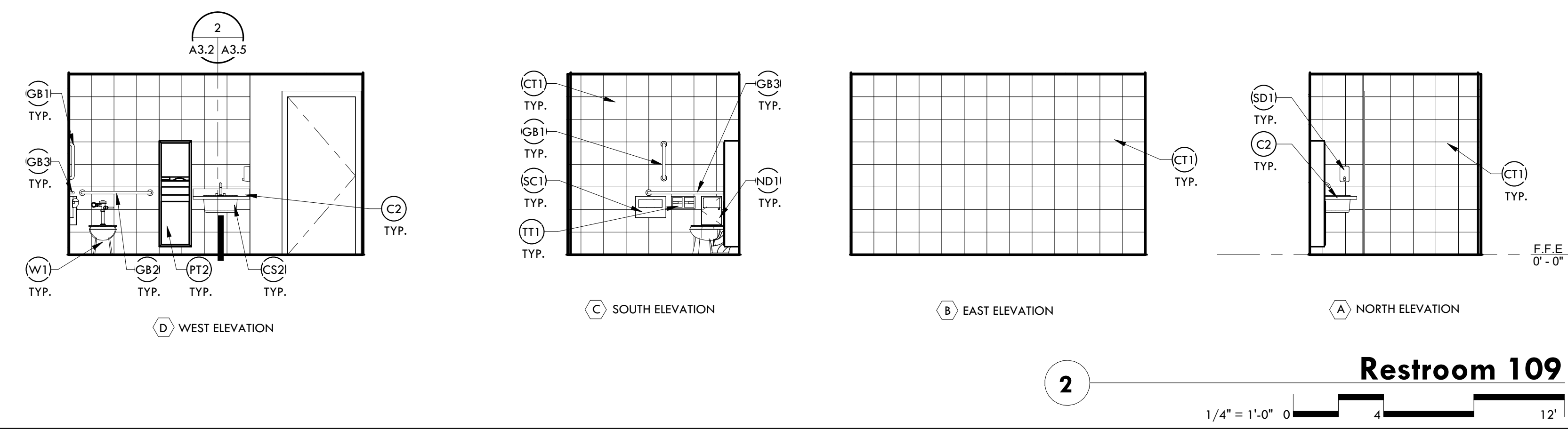
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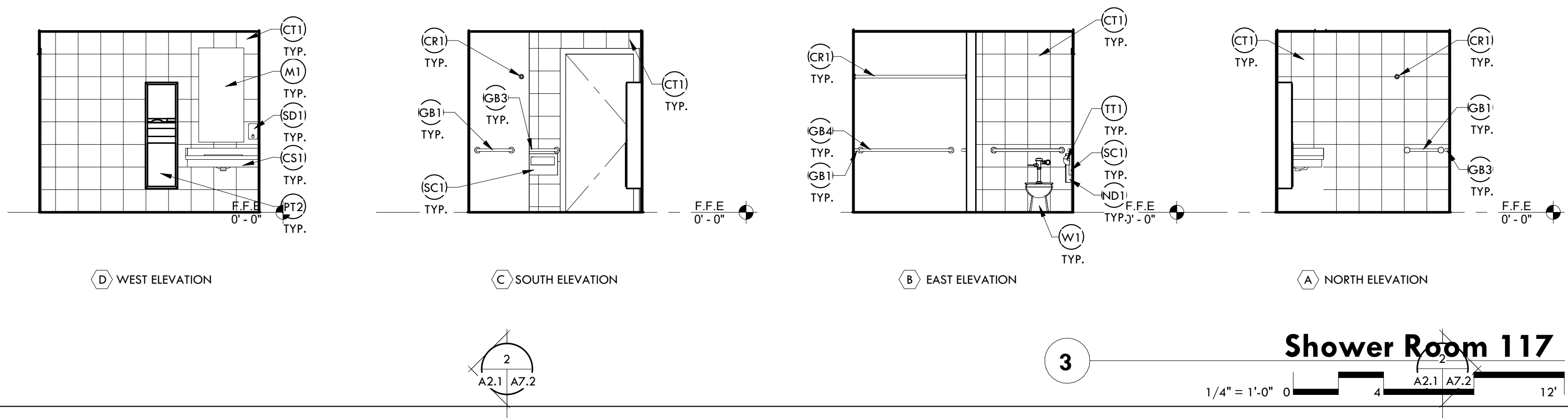
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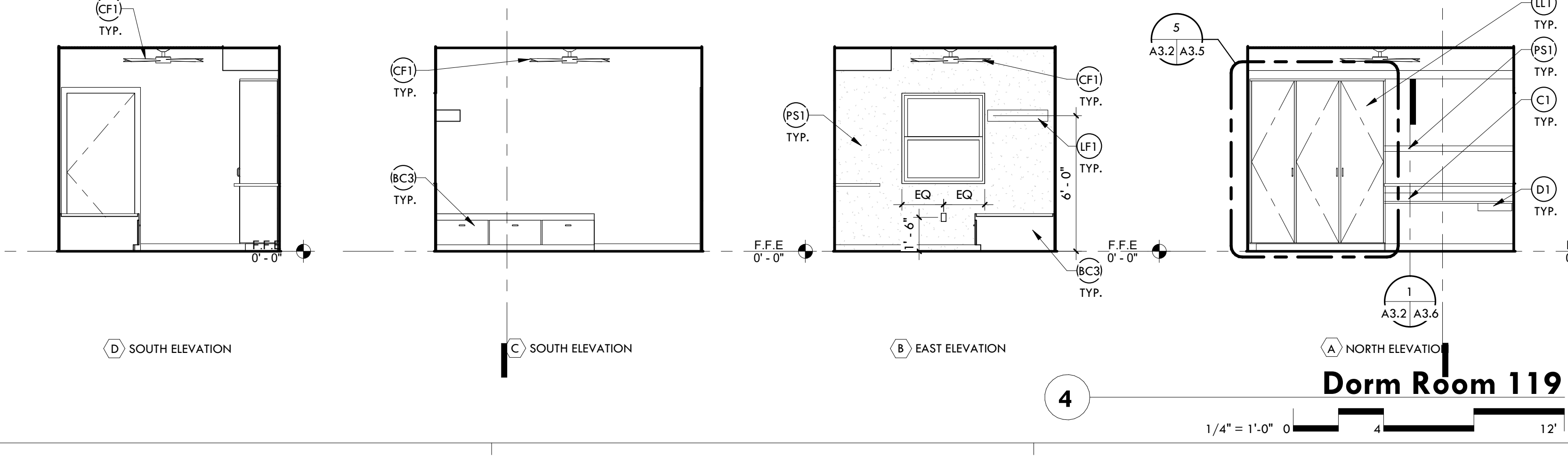
1
Kitchen Room 112
1/4" = 1'-0" 0 4 12'



2
Restroom 109
1/4" = 1'-0" 0 4 12'



3
Shower Room 117
1/4" = 1'-0" 0 4 12'



4
Dorm Room 119
1/4" = 1'-0" 0 4 12'

General Notes

1. REFER TO SHEET A3.3.1 FOR TOILET ACCESSORIES KEYNOTES AND MOUNTING HEIGHTS
2. BATHROOM ACCESSORIES TO BE KEYLESS TYPE

Keynotes

- (BC2) PLASTIC LAMINATE BASE CABINET
- (BC3) BUILT-IN BED BASE CABINET
- (C1) SOLID SURFACE COUNTERTOP
- (C2) SOLID SURFACE COUNTERTOP & BACKSPLASH
- (CF1) CEILING FAN
- (CR1) SHOWER CURTAIN ROD
- (CS1) ADA COMPLIANT SINGLE COMPARTMENT SINK
- (CS2) SINGLE COMPARTMENT SINK
- (CT1) CERAMIC TILE
- (D1) DRAWER
- (FD1) FRONT LOADING DISHWASHER
- (GB1) 18" LONG VERTICAL GRAB BAR
- (GB2) 36" HORIZONTAL GRAB BAR
- (GB3) 42" HORIZONTAL GRAB BAR
- (GB4) 48" HORIZONTAL GRAB BAR
- (LF1) WALL MOUNTED LIGHT FIXTURE
- (LL1) BUILT-IN PLASTIC LAMINATE LOCKERS
- (M1) MIRROR
- (ND1) SANITARY NAPKIN DISPOSAL
- (PS1) PLASTIC LAMINATE SHELF
- (PT2) WASTE RECEPTACLE
- (R1) REFRIGERATOR
- (SC1) TOILET SEAT COVER DISPENSER
- (SD1) SOAP DISPENSER
- (TT1) TOILET PAPER DISPENSER
- (UC1) PLASTIC LAMINATE UPPER CABINET
- (W1) A.D.A COMPLIANT WATER CLOSET

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5 2 0 . 8 8 2 . 9 9 4 4

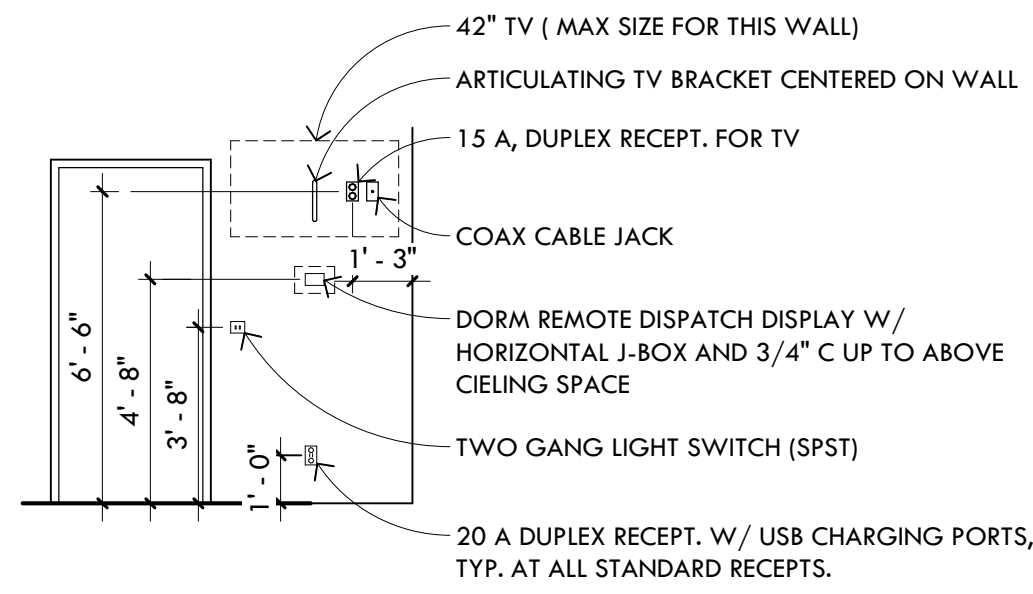
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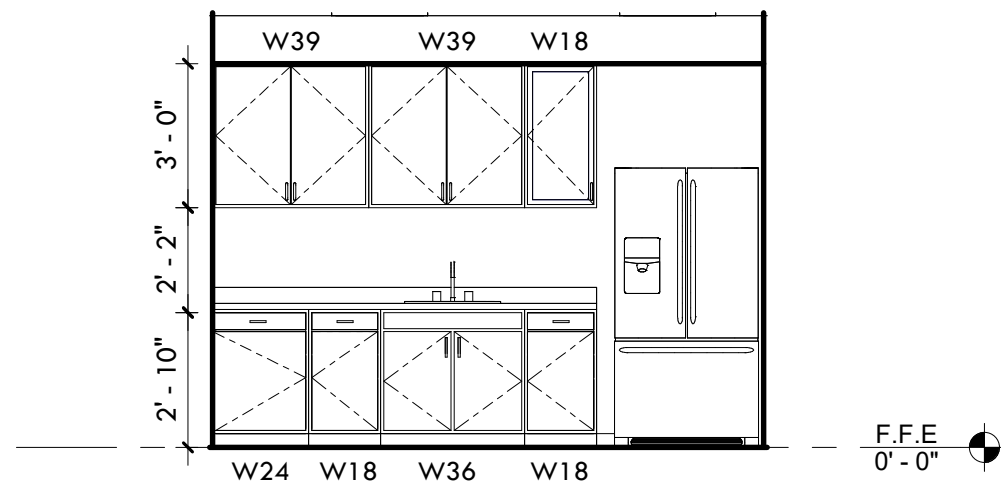
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3 Dorm Room TV/ Dispatch Wall

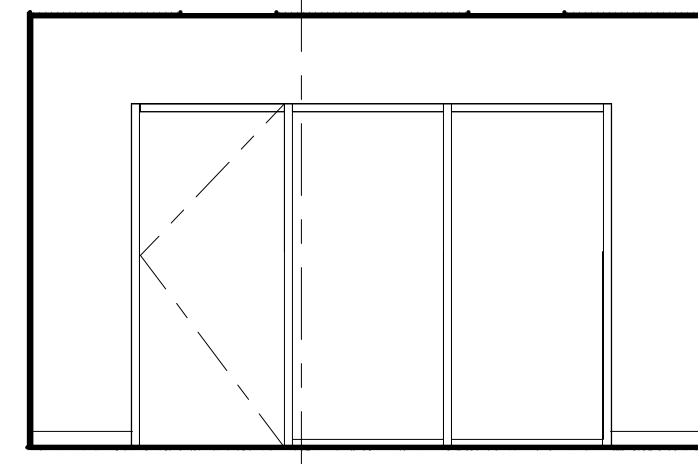
1/4" = 1'-0" 0 4 12'



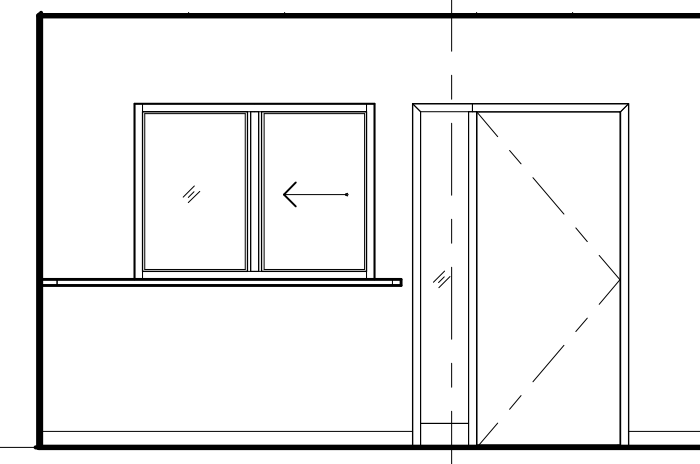
2 EAST ELEVATION

Break Room

1/4" = 1'-0" 0 4 12'



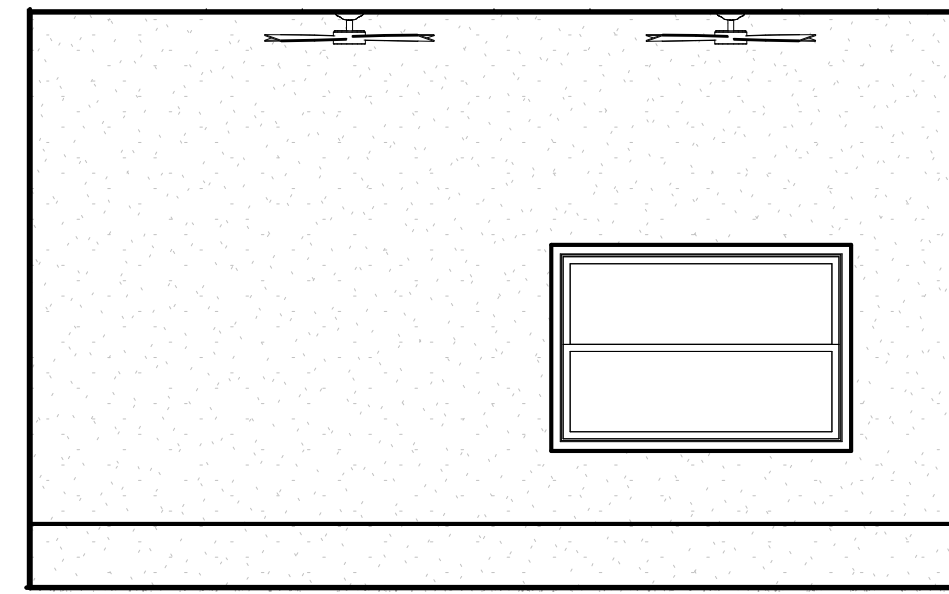
B SOUTH ELEVATION



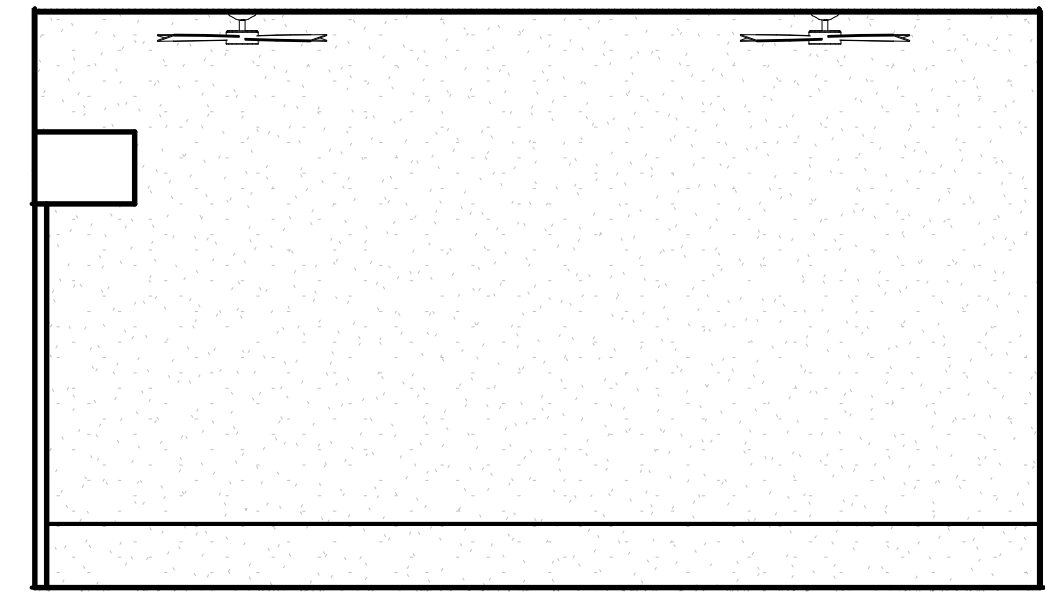
A NORTH ELEVATION

Lobby

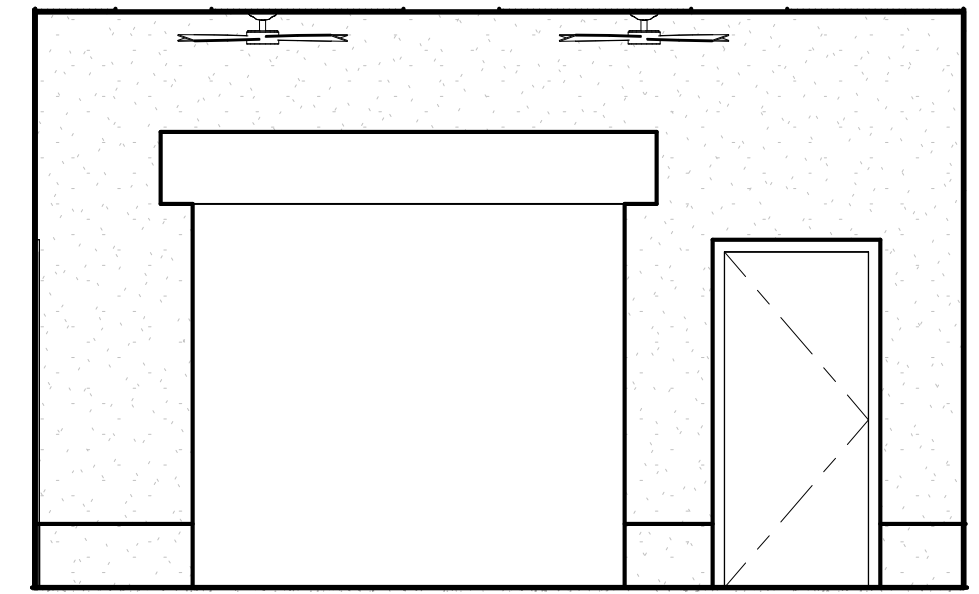
1/4" = 1'-0" 0 4 12'



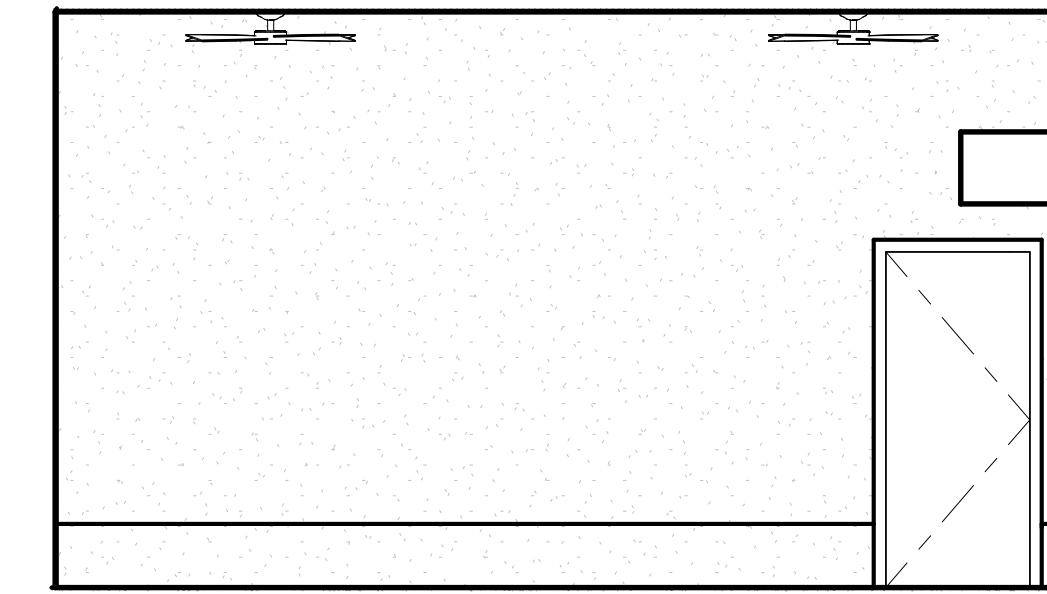
D WEST ELEVATION



C SOUTH ELEVATION



B EAST ELEVATION



A NORTH ELEVATION

Fitness

1/4" = 1'-0" 0 4 12'

General Notes

1. REFER TO SHEET A3.3.1 FOR TOILET ACCESSORIES KEYNOTES AND MOUNTING HEIGHTS
2. BATHROOM ACCESSORIES TO BE KEYLESS TYPE

Breckenridge
 architects
 planners

1735 e ft. lowell rd. #12
 tucson arizona 85719
 520.882.9944

Tubac Fire Station #1
 2227 I-19 Frontage Rd., Tubac, AZ 85646
 Intermediate Plans

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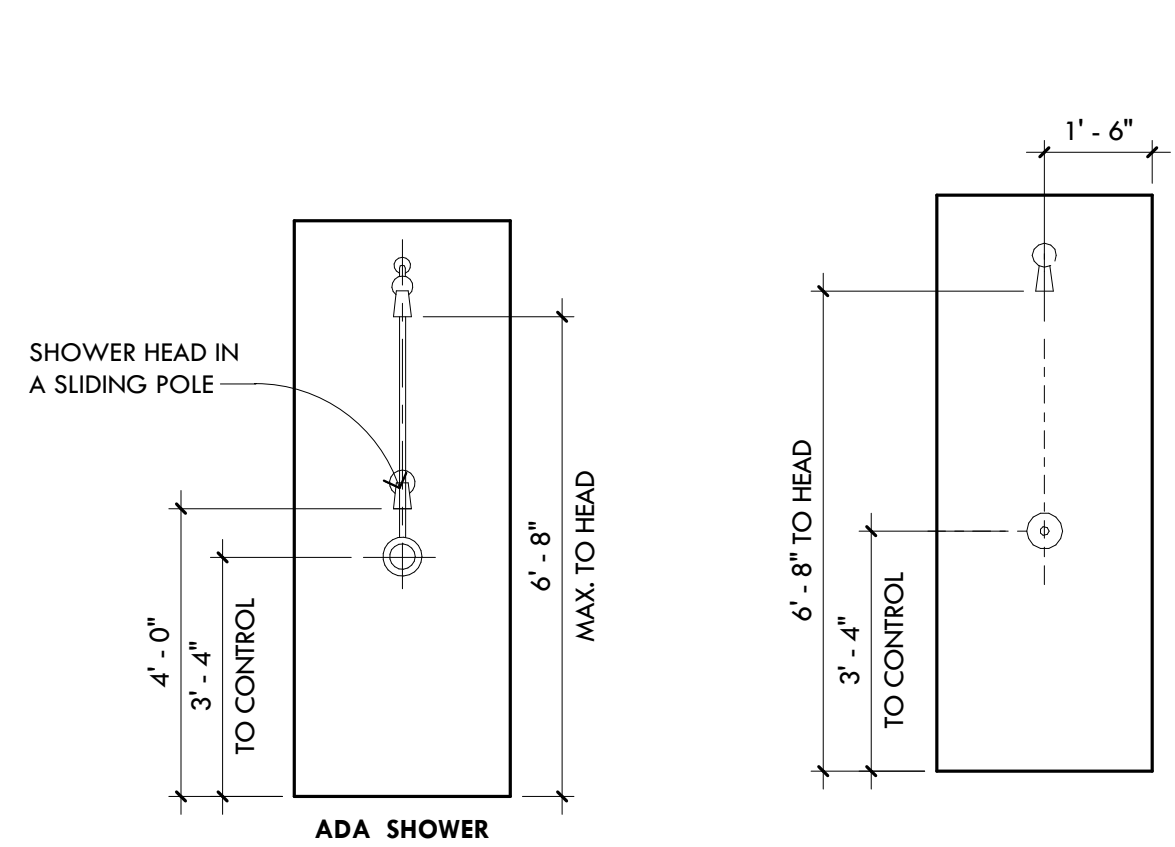
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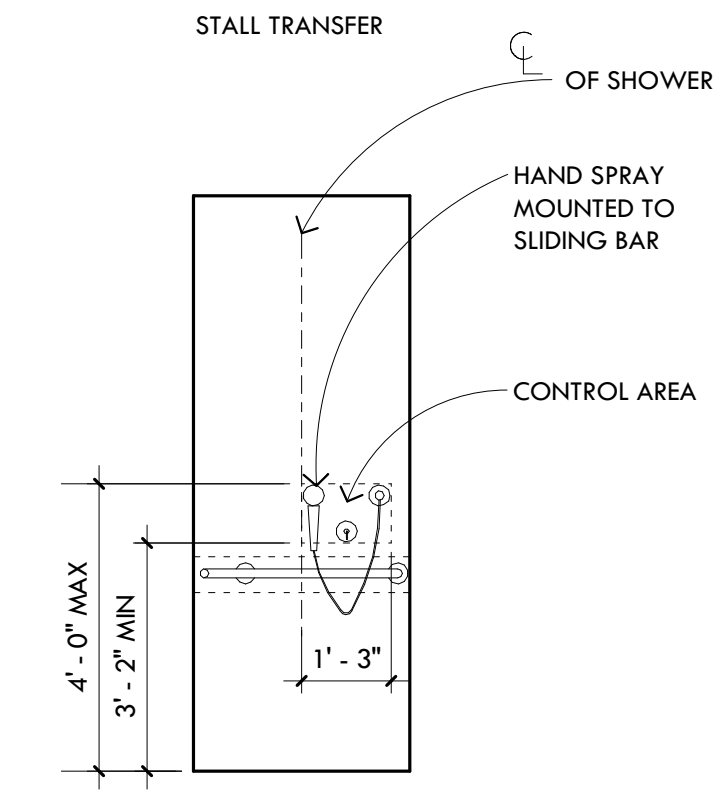
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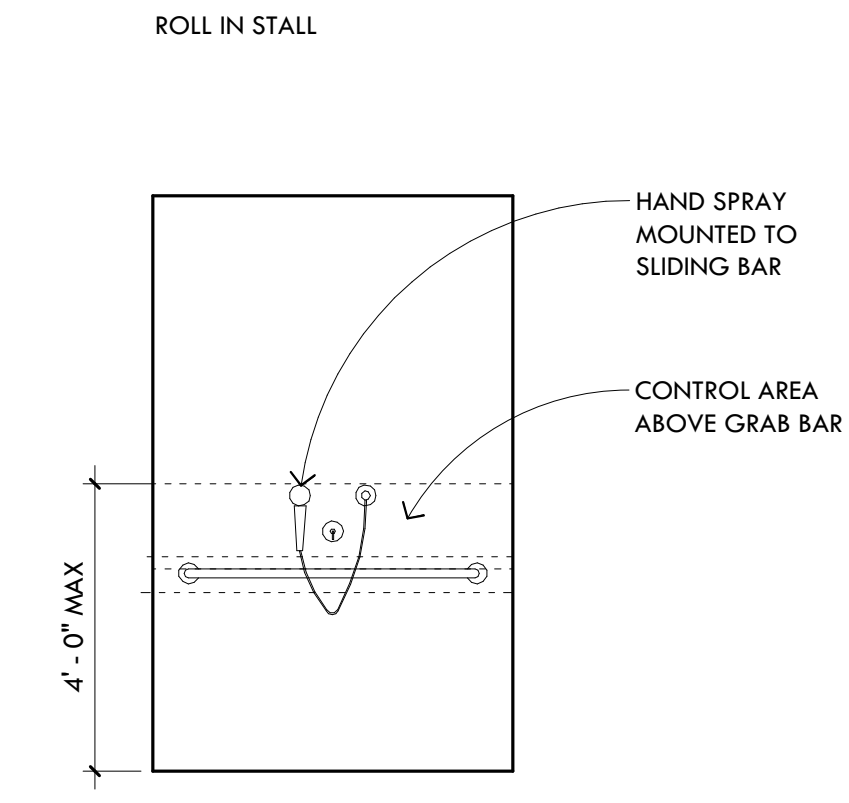
Interior
 Elevations
A3.3



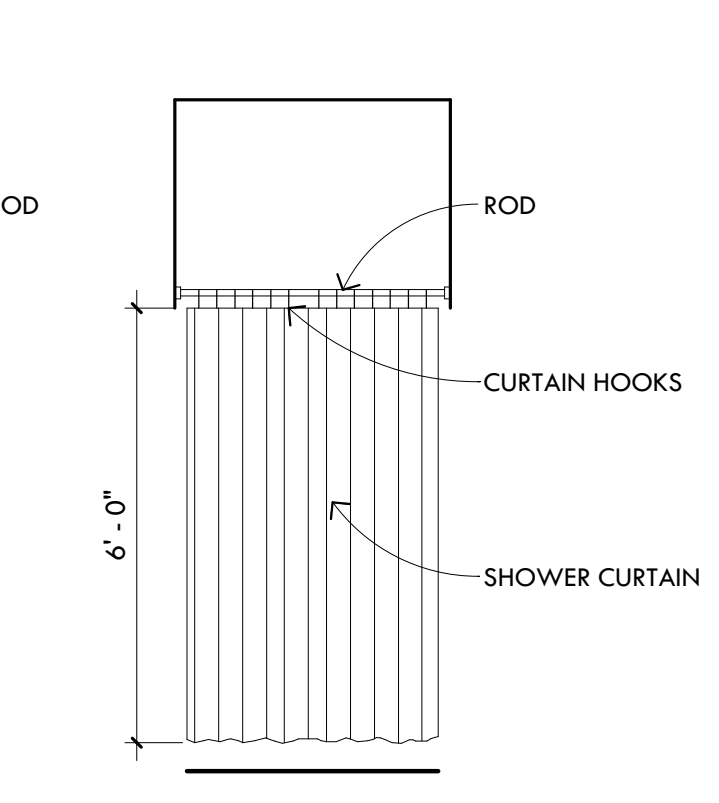
ADA SHOWER
TYPICAL PLUMBING FIXTURE MOUNTING DIMENSIONS



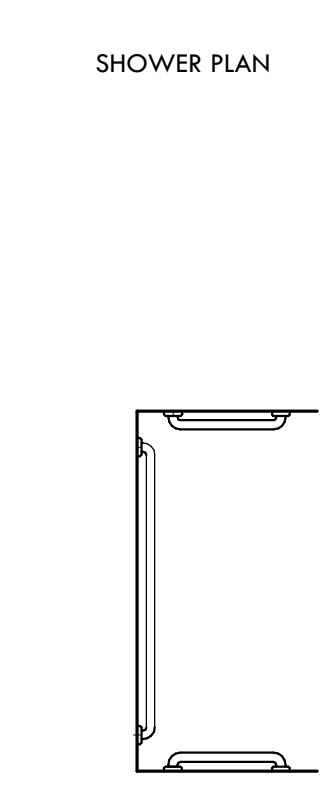
SH ACCESSIBLE SHOWER HEAD



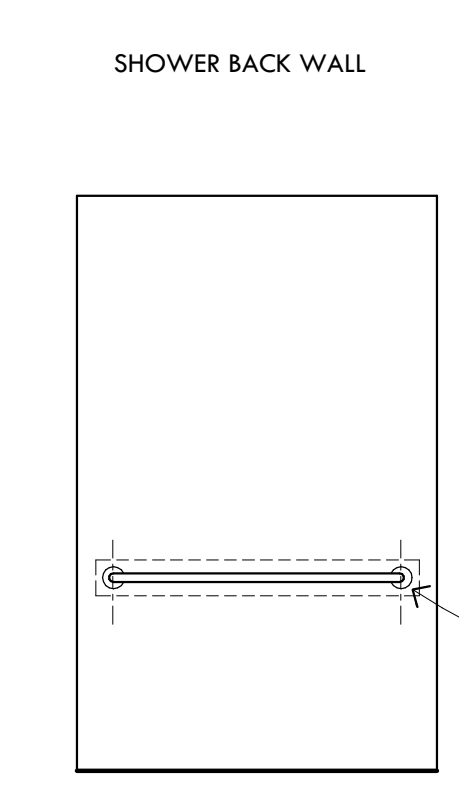
CR1 SHOWER CURTAIN ROD



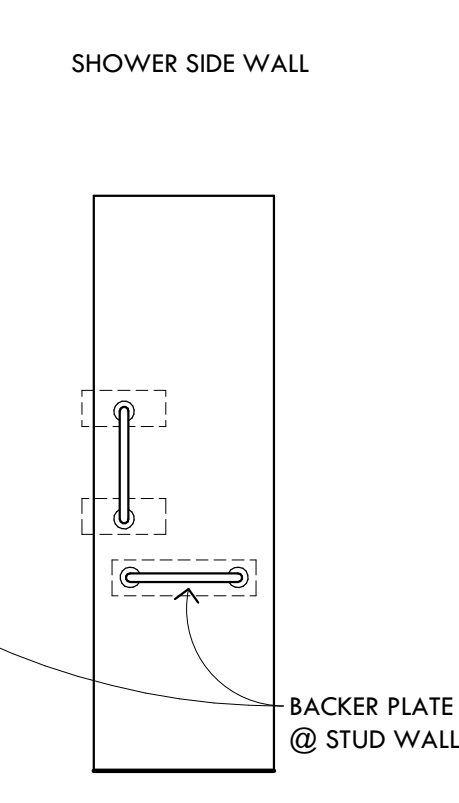
SC SHOWER CURTAIN



SHOWER PLAN



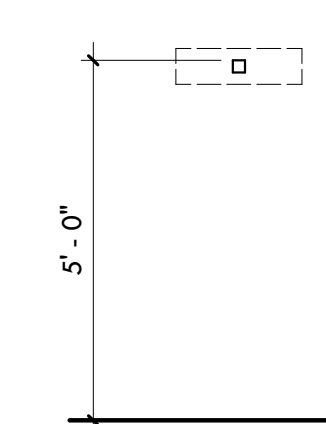
SHOWER BACK WALL



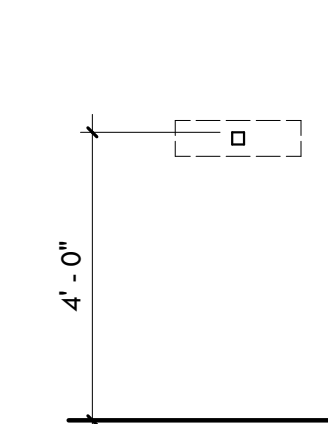
SHOWER SIDE WALL

GB SHOWER GRAB BARS

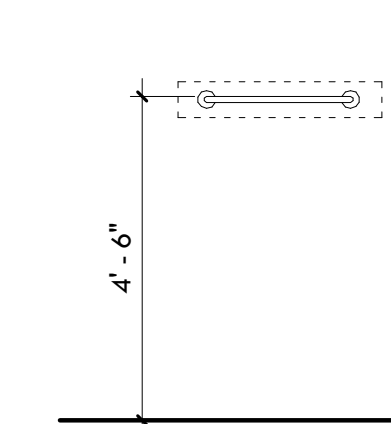
BACKER PLATE @ STUD WALLS



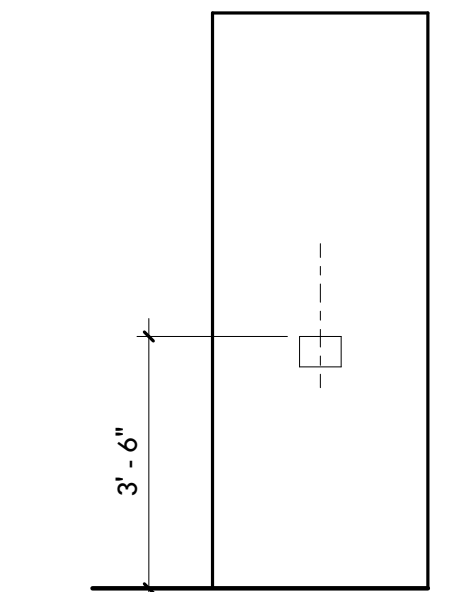
RH1 ROBE HOOK



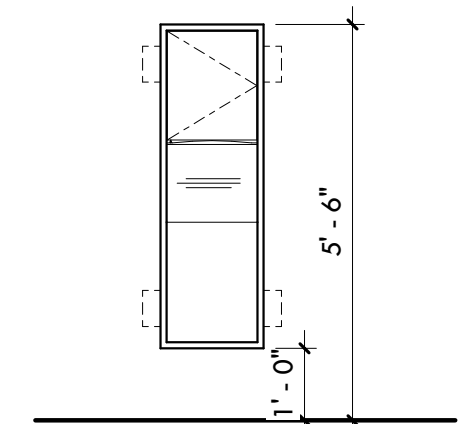
RH2 ADA ROBE HOOK



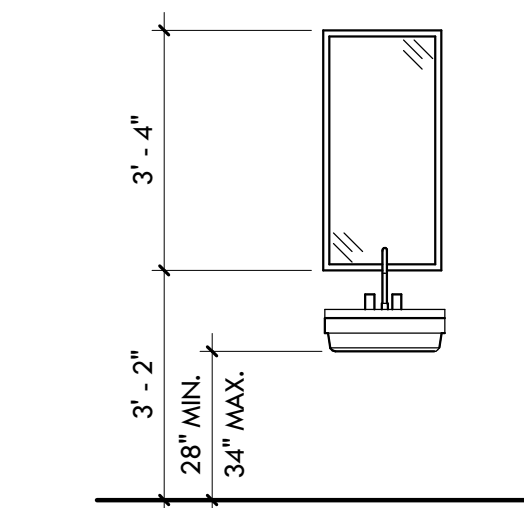
TB1 TOWEL BAR



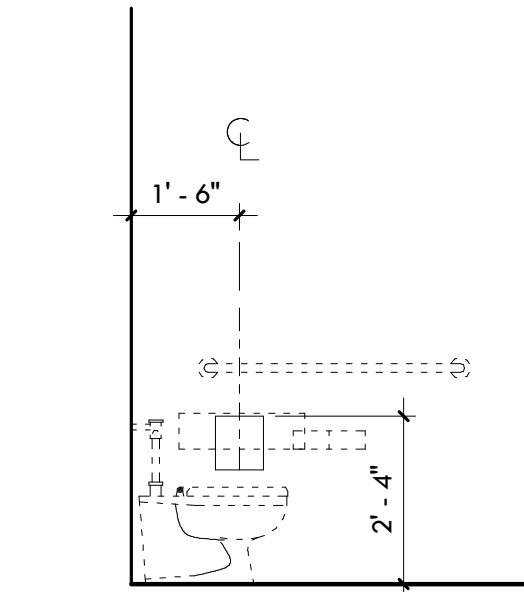
SD2 RECESSED SOAP DISH AND BAR



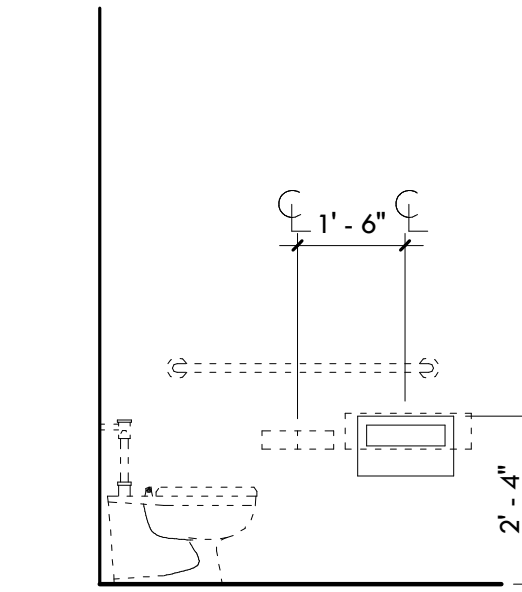
PT2 FOLDED DISPOSABLE HAND TOWEL DISPENSER W/ TRASH RECEPTACLE



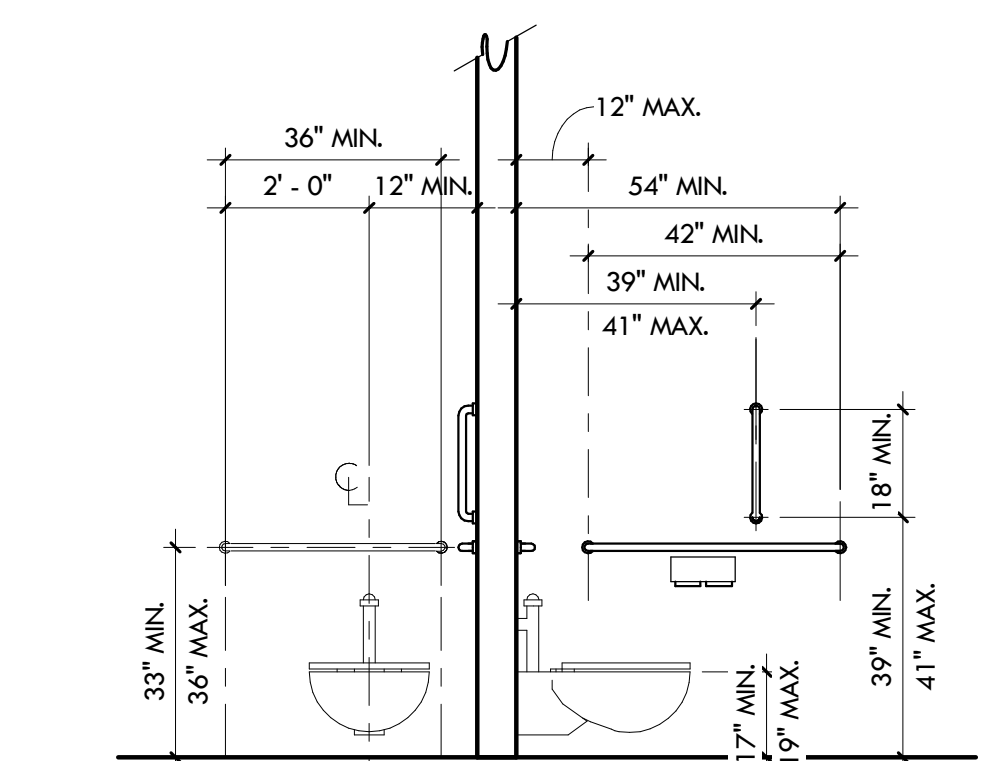
FM FRAMED MIRROR



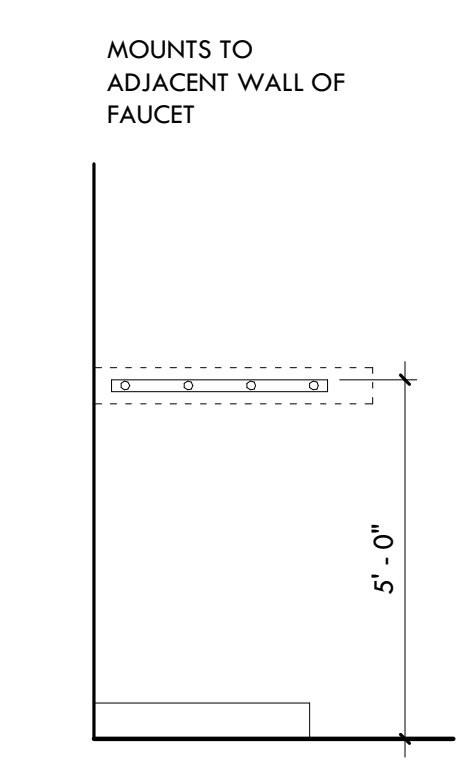
ND1 SANITARY NAPKIN DISPOSAL



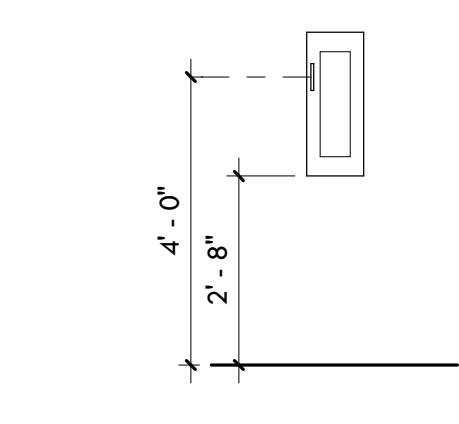
SC1 TOILET SEAT COVER DISPENSER



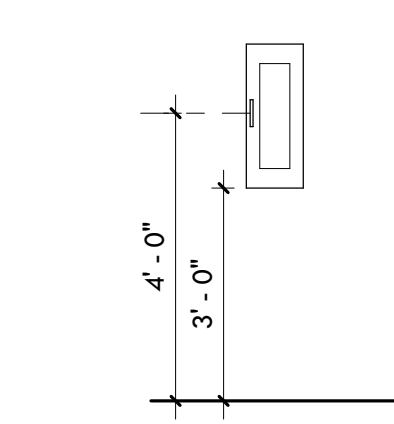
GB WATER CLOSET GRAB BARS



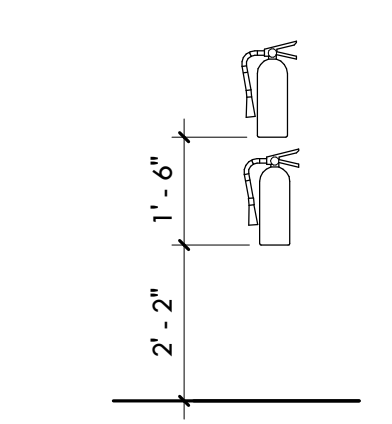
MB1 MOP HOLDER



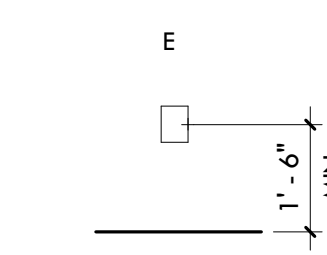
FEC1 FIRE EXTINGUISHER CABINET IF PULL IS 4" HIGHER THAN THE DOOR CENTER



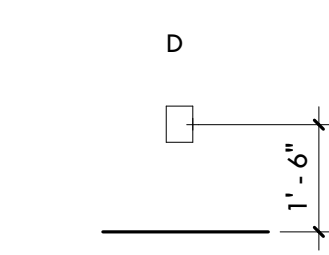
FEC2 FIRE EXTINGUISHER CABINET IF PULL IS CENTERED ON DOOR



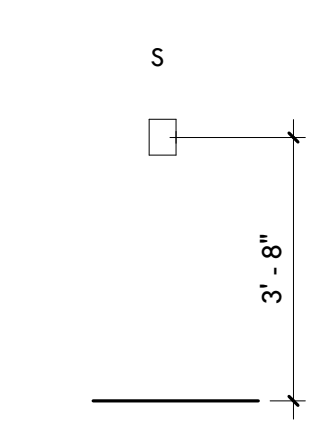
FE FIRE EXTINGUISHER



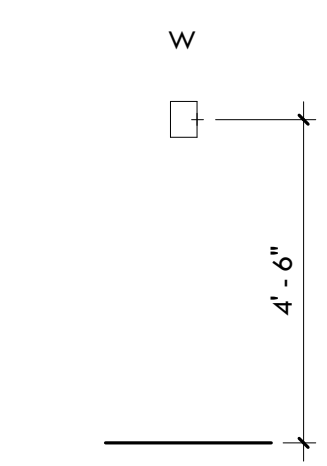
E ELECTRICAL OUTLET



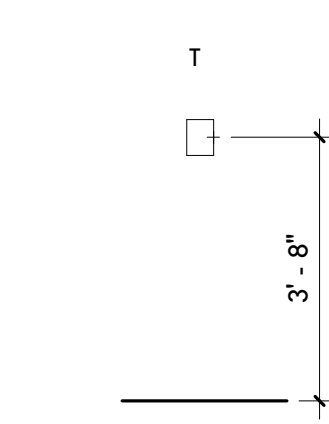
D DATA



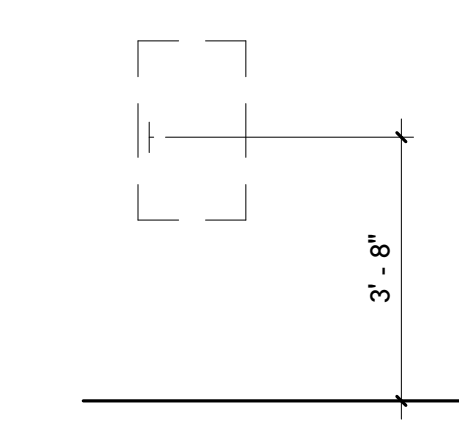
S LIGHT SWITCH



W WALL PHONE



T THERMOSTAT



P PANEL

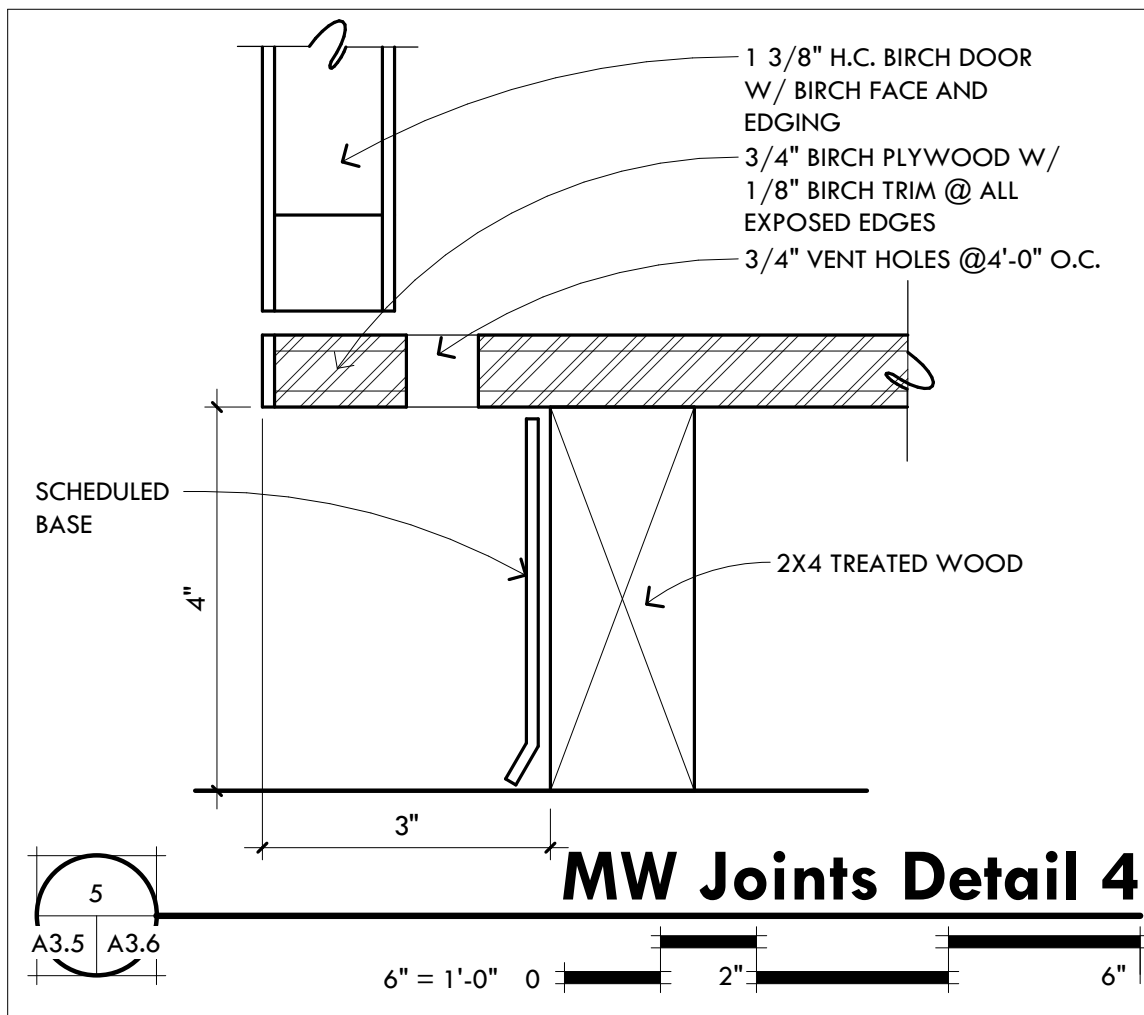
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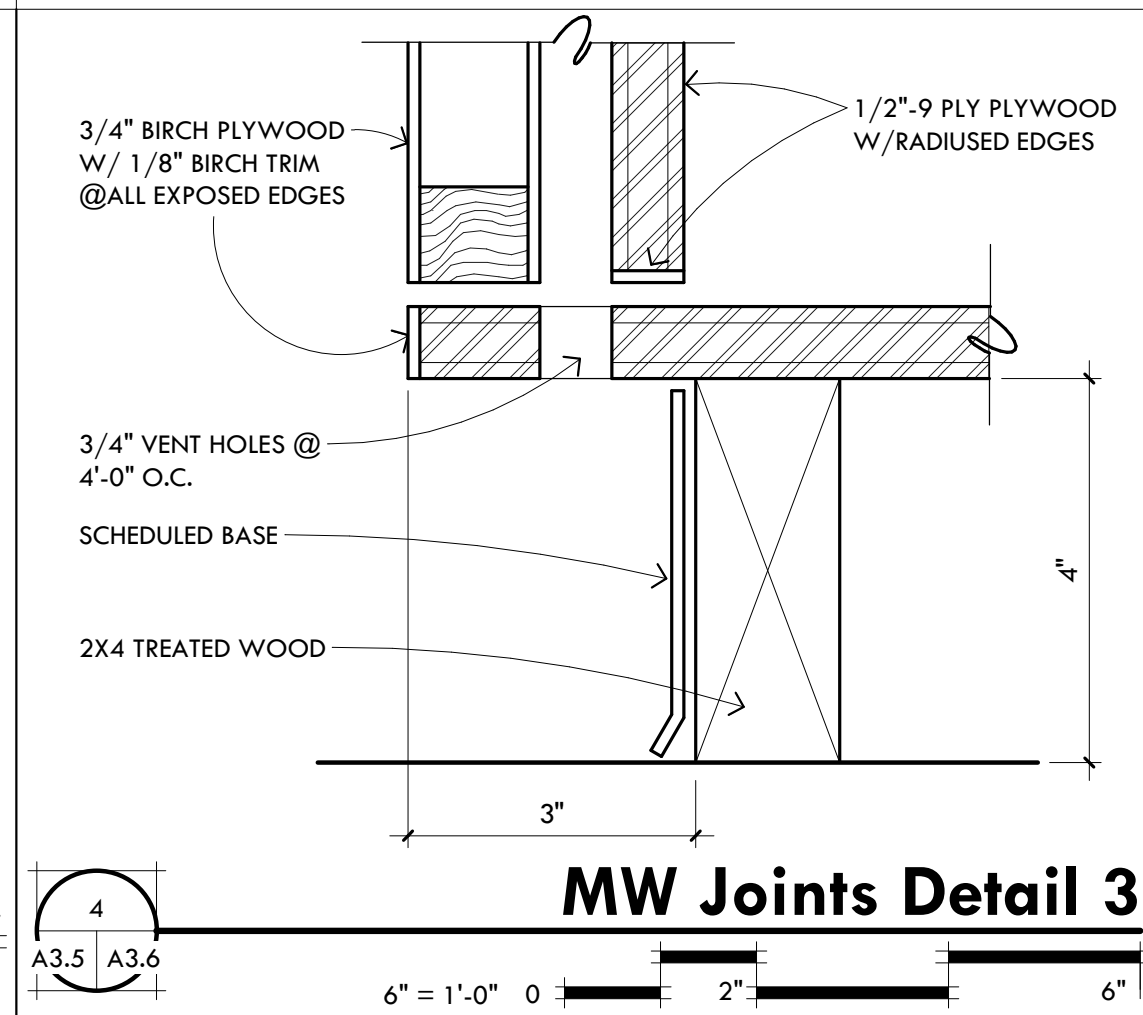
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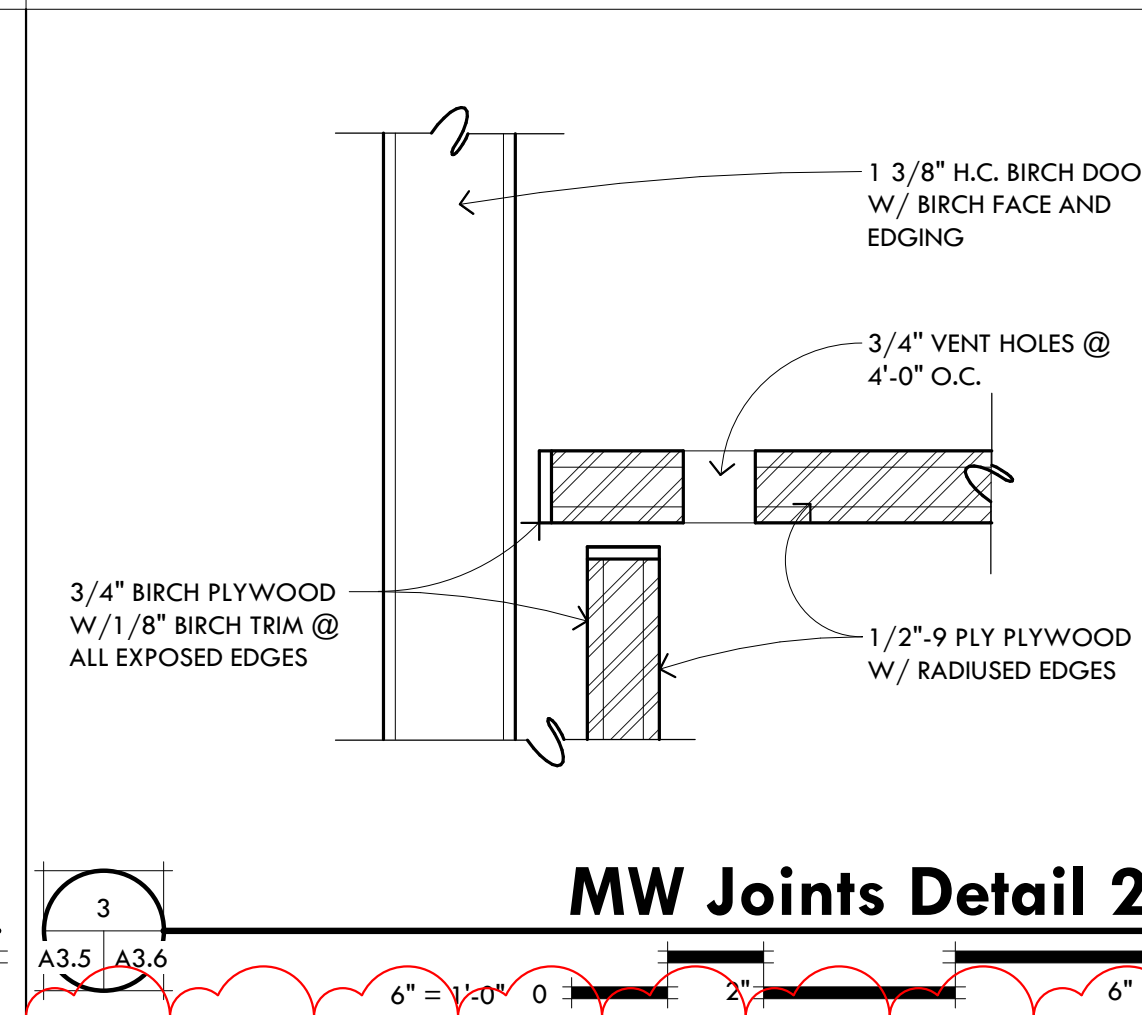
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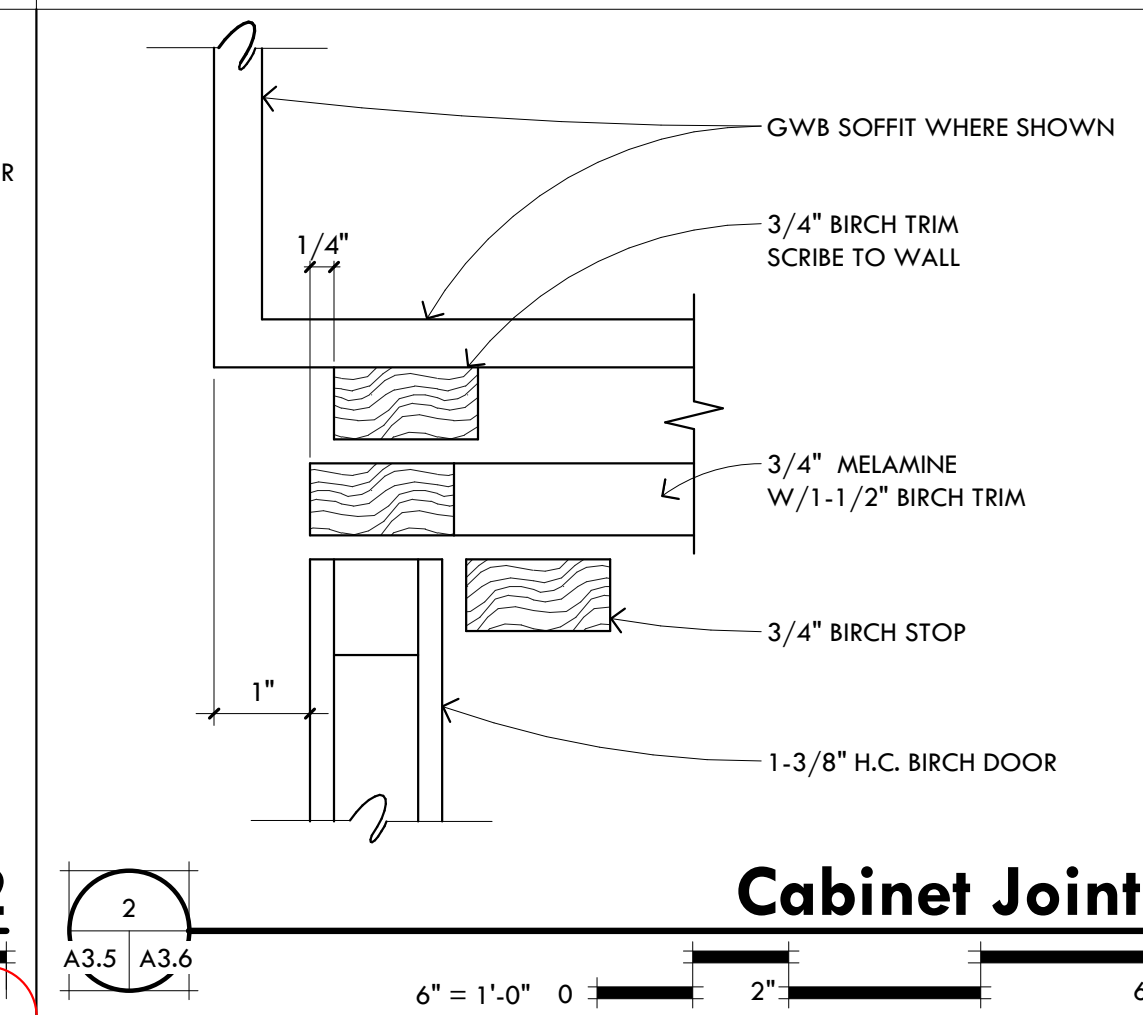
MW Joints Detail 4



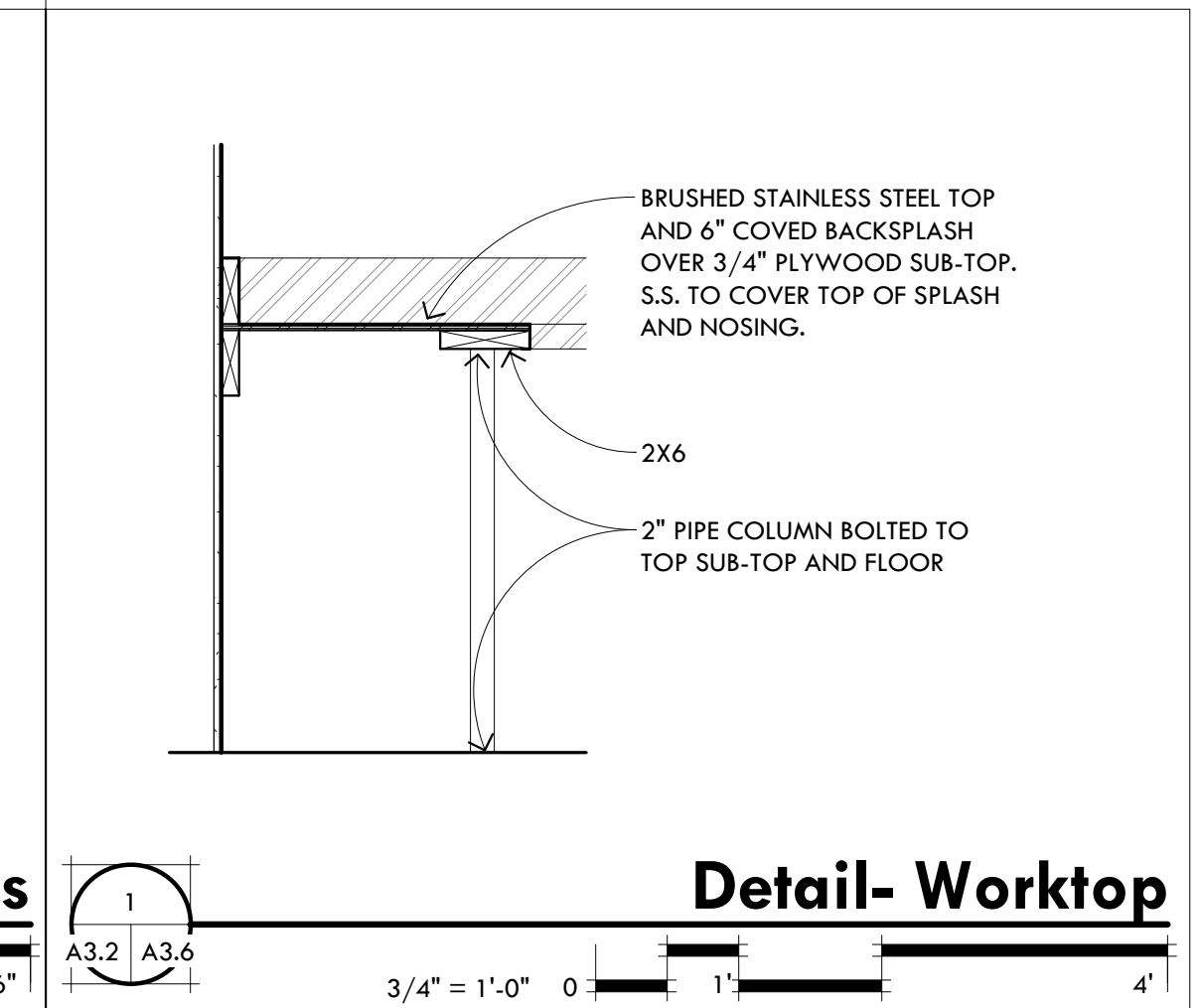
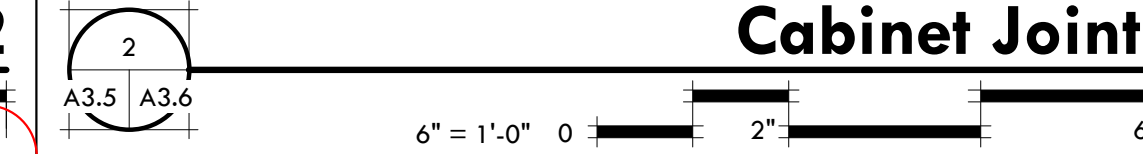
MW Joints Detail 3



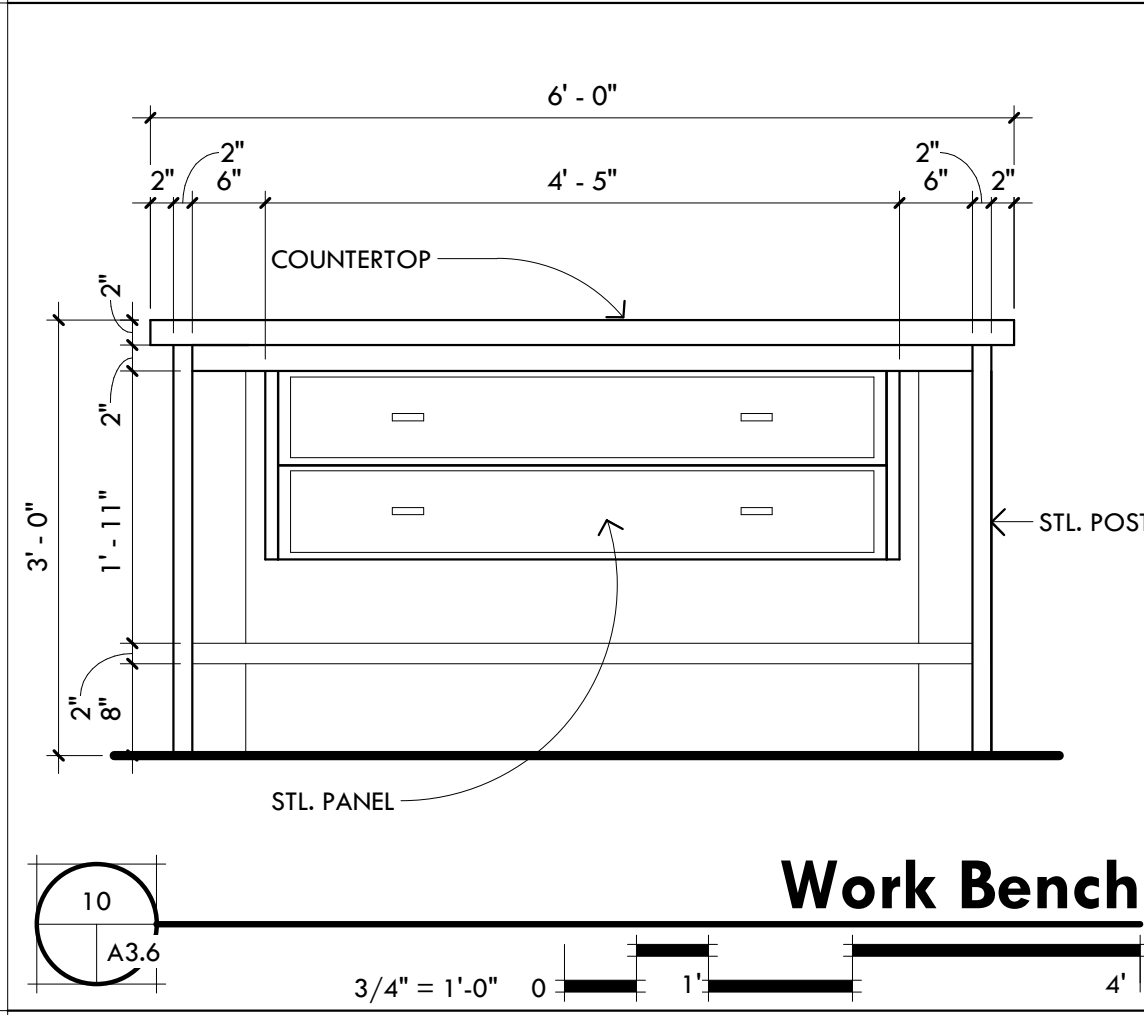
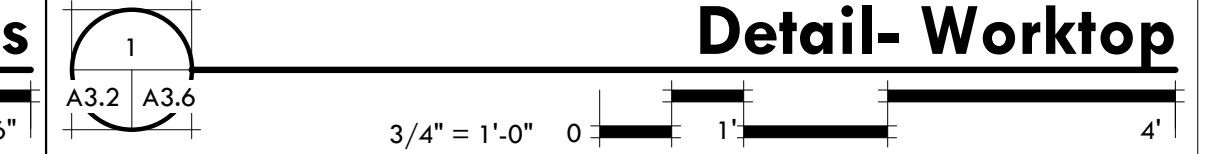
MW Joints Detail 2



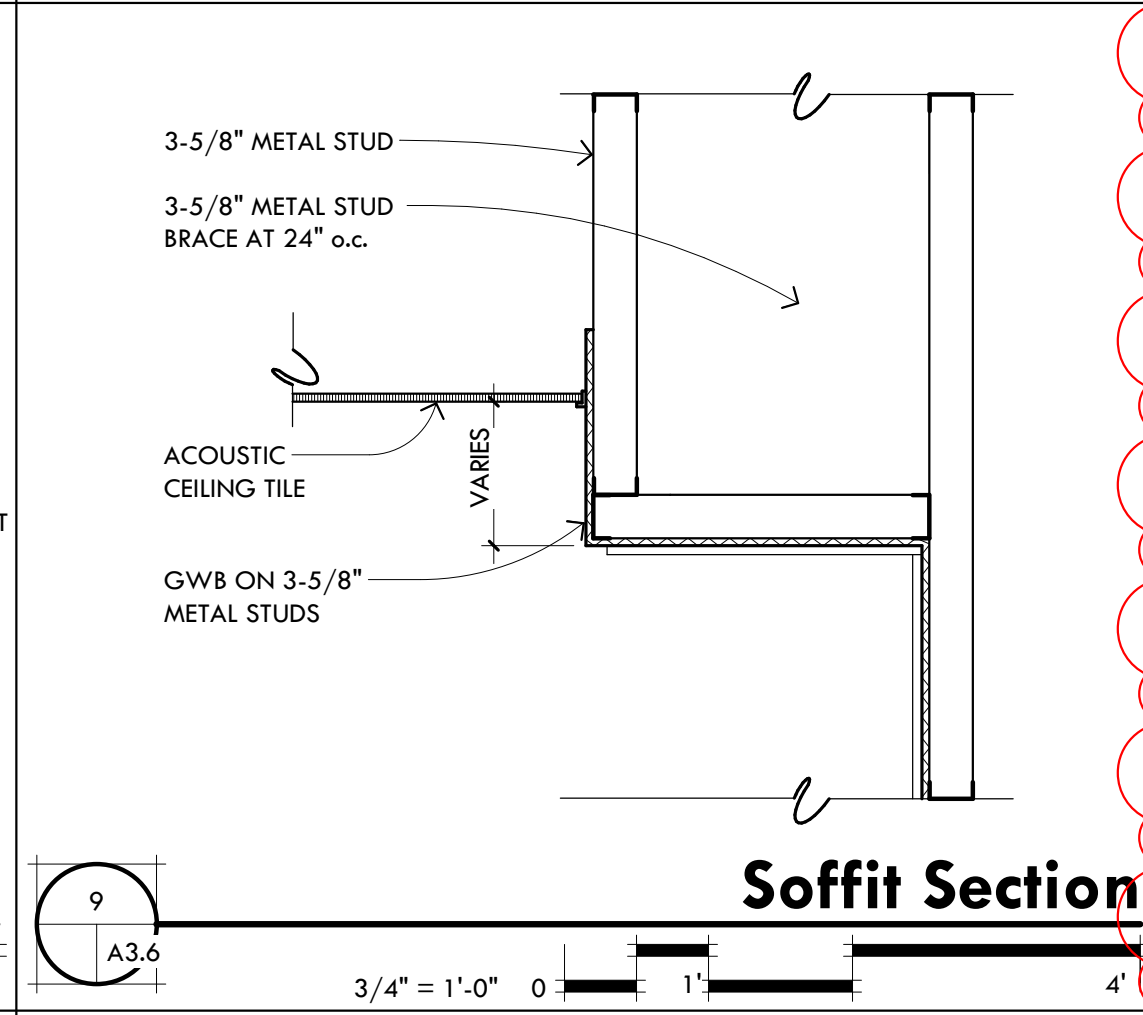
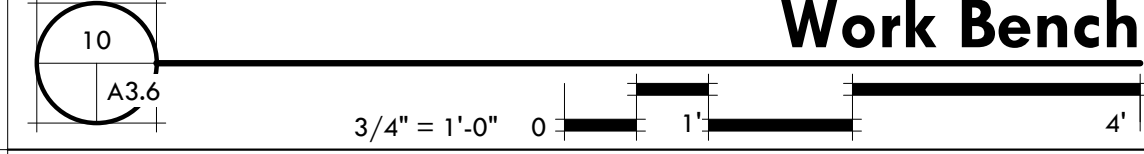
Cabinet Joints



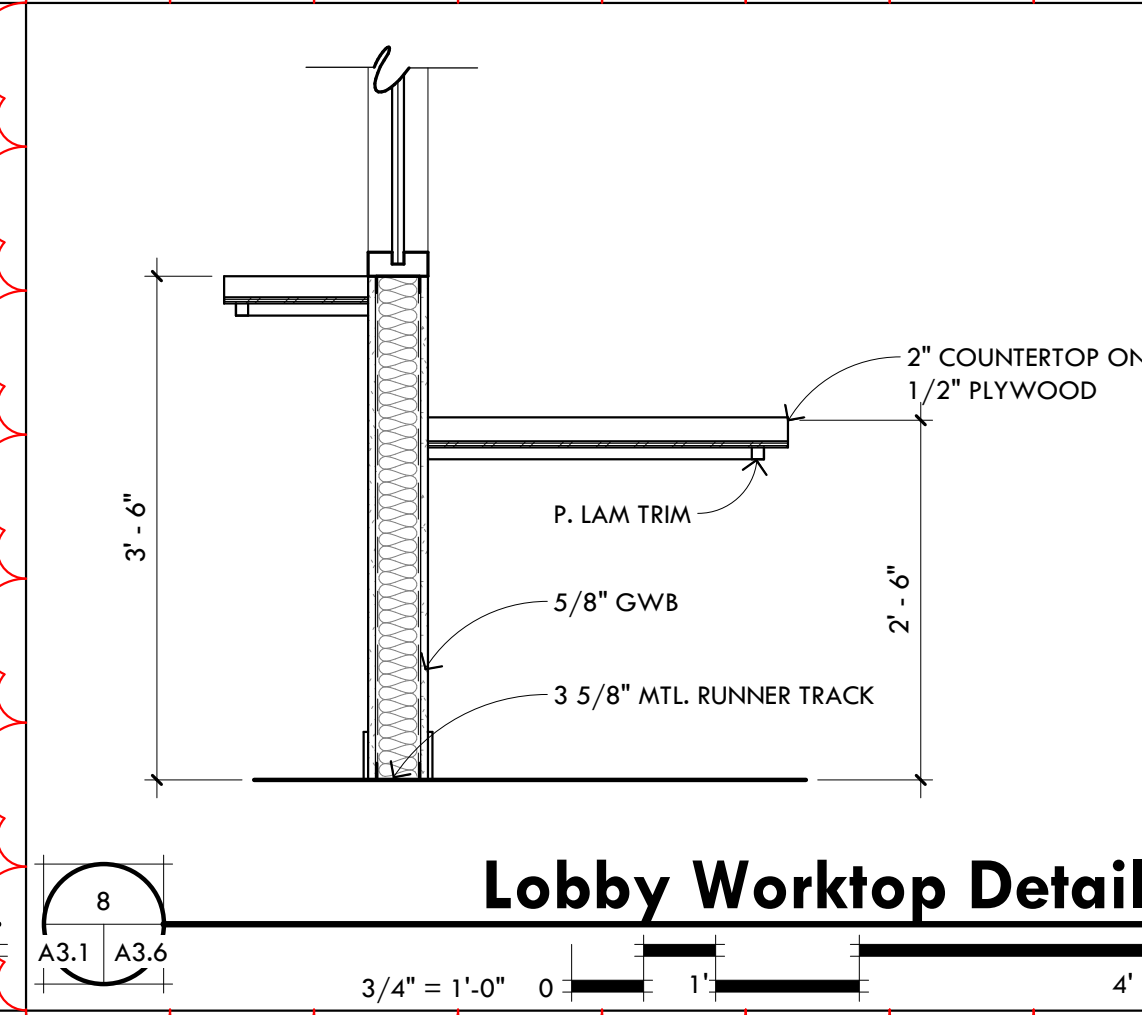
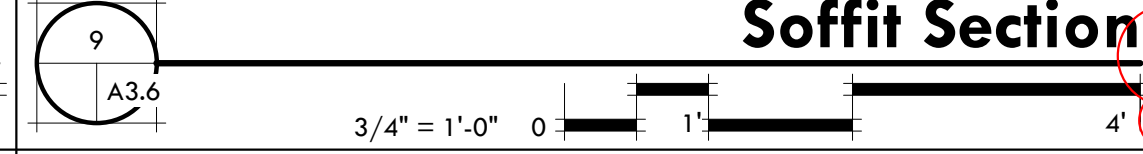
Detail- Worktop



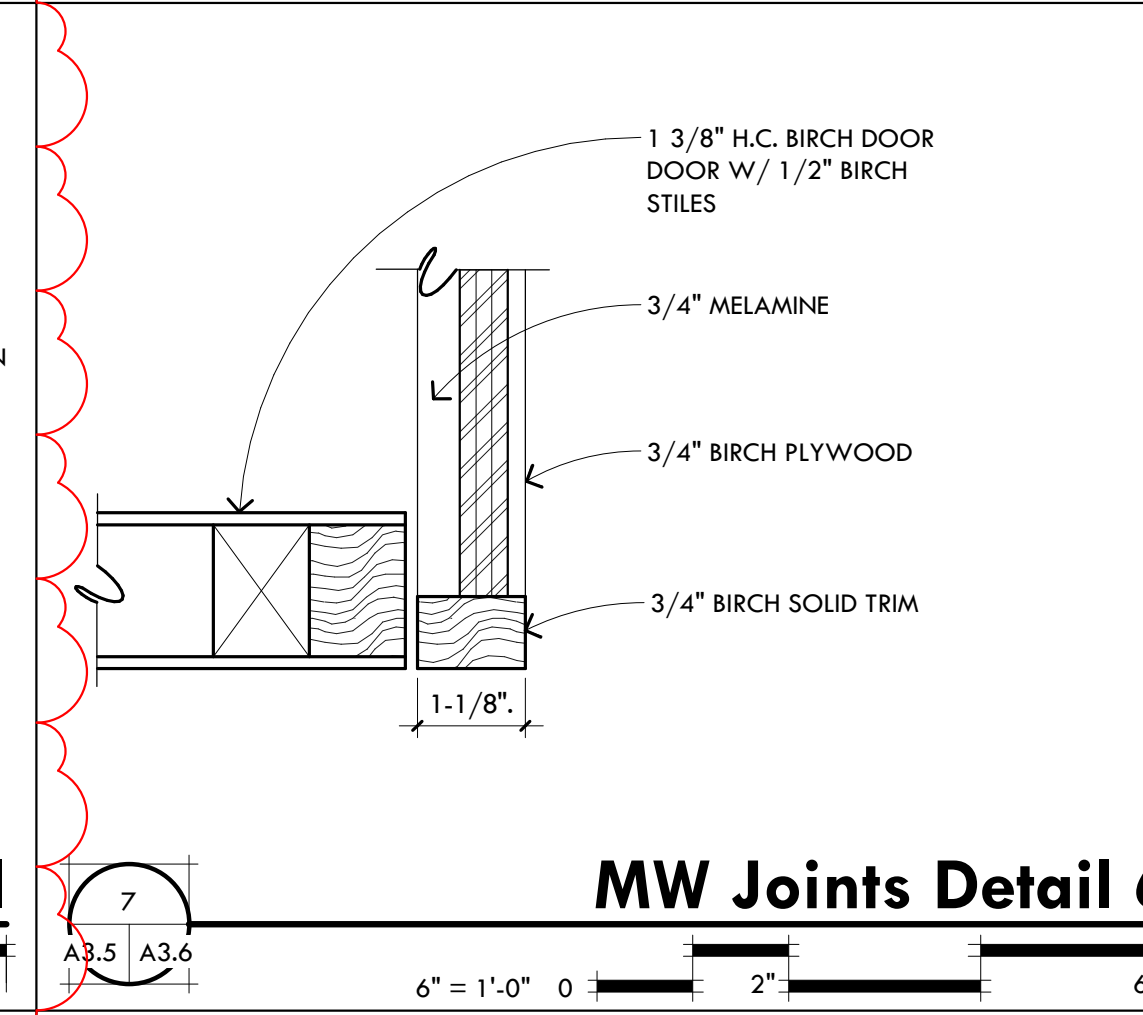
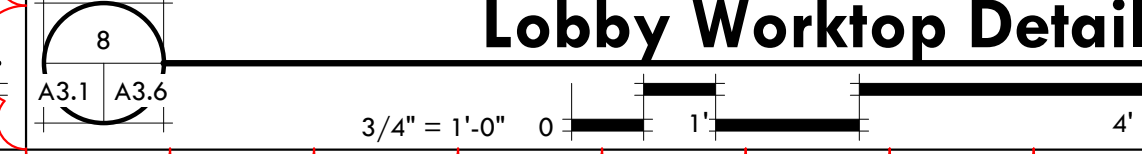
Work Bench



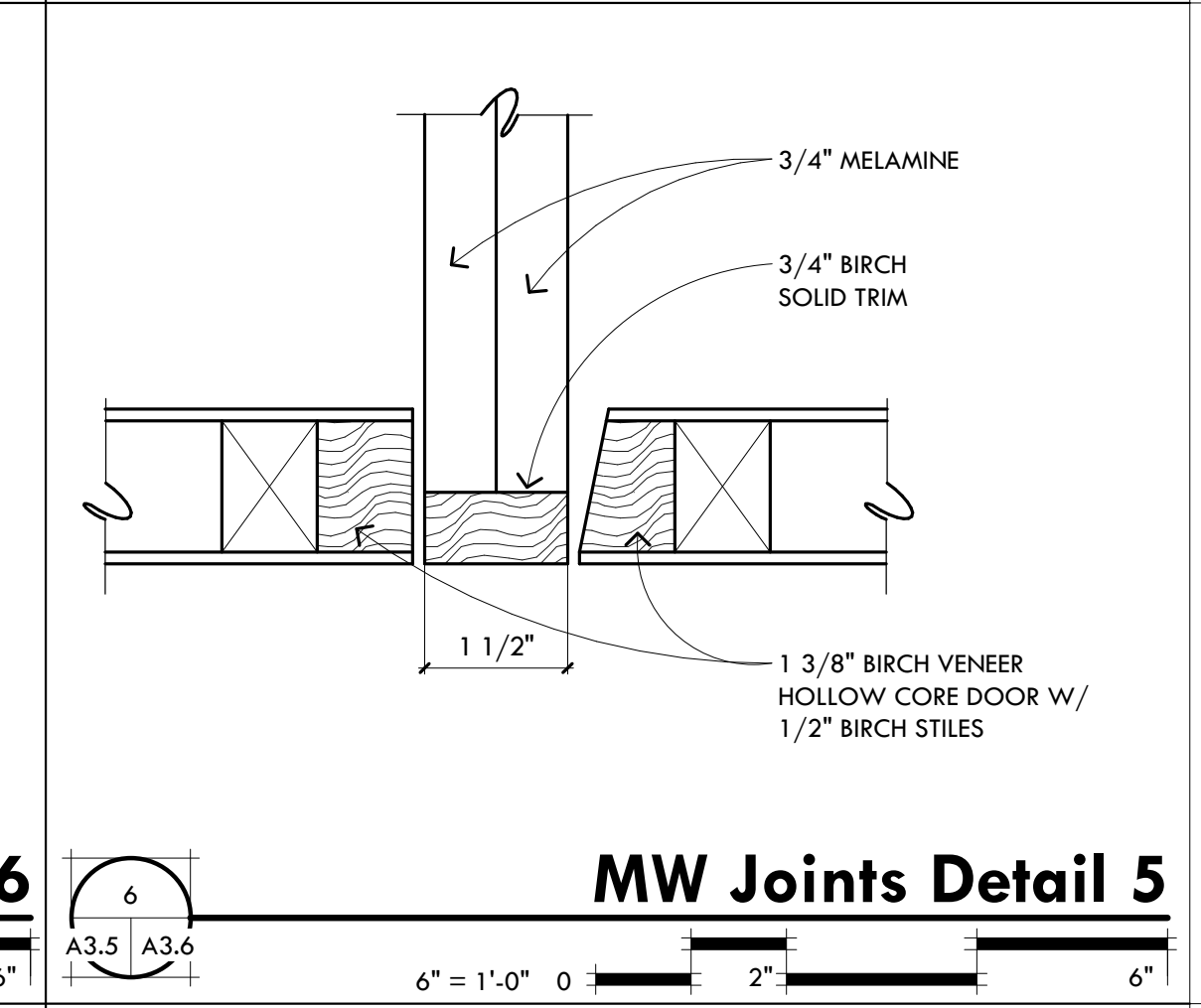
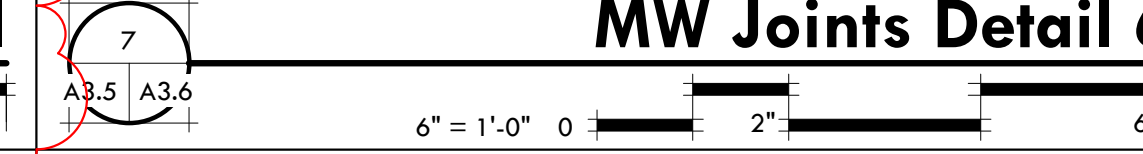
Soffit Section



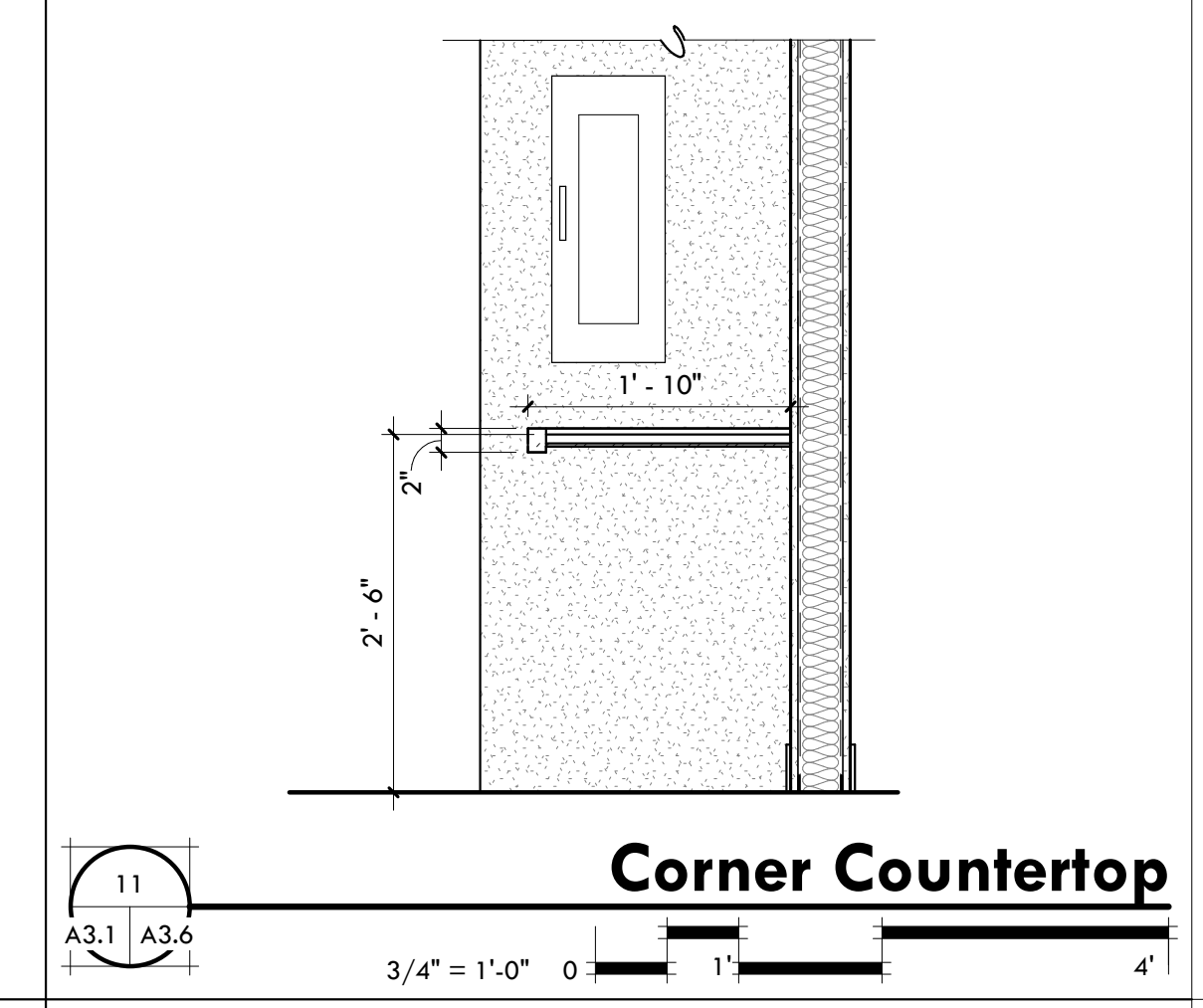
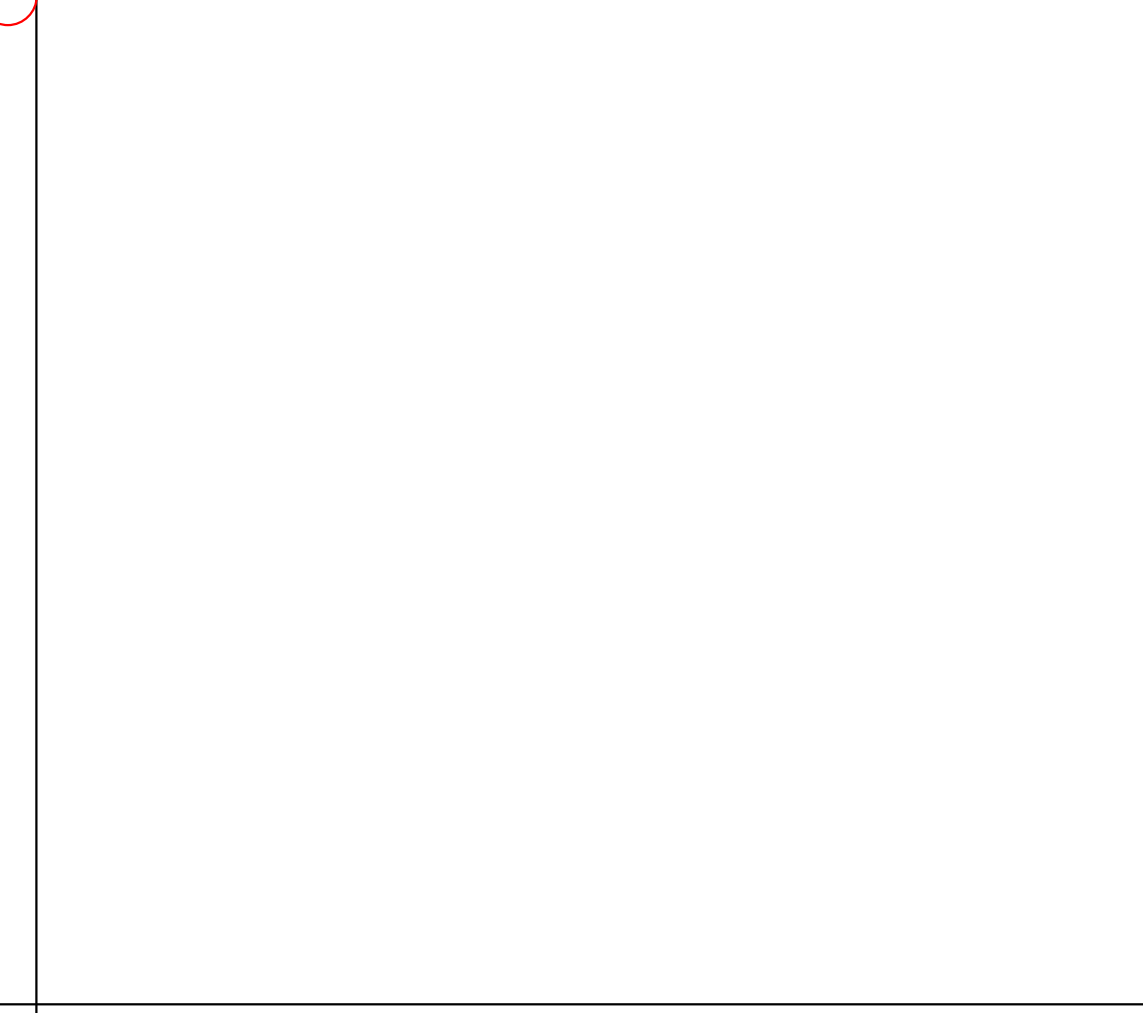
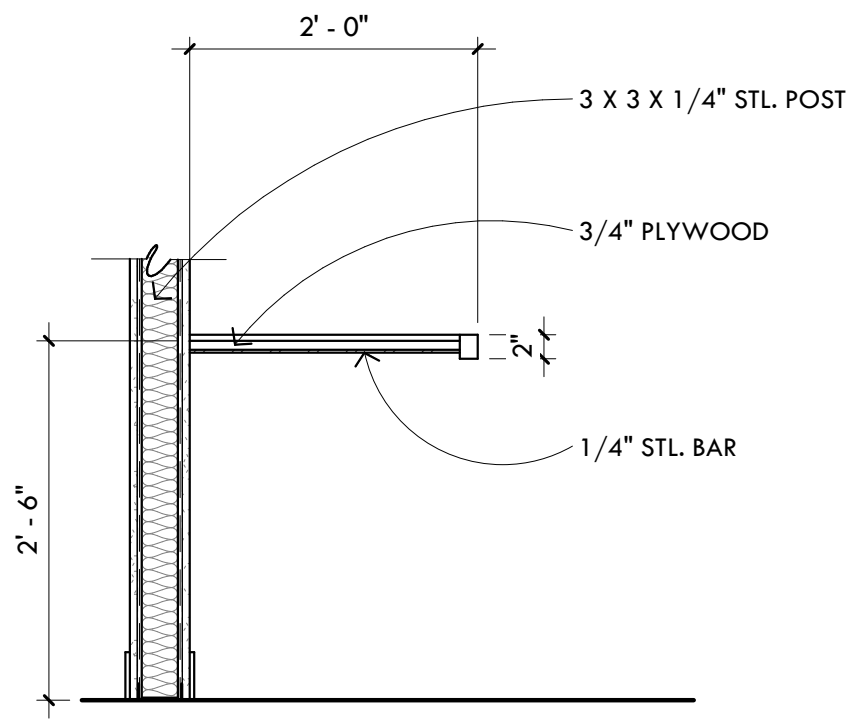
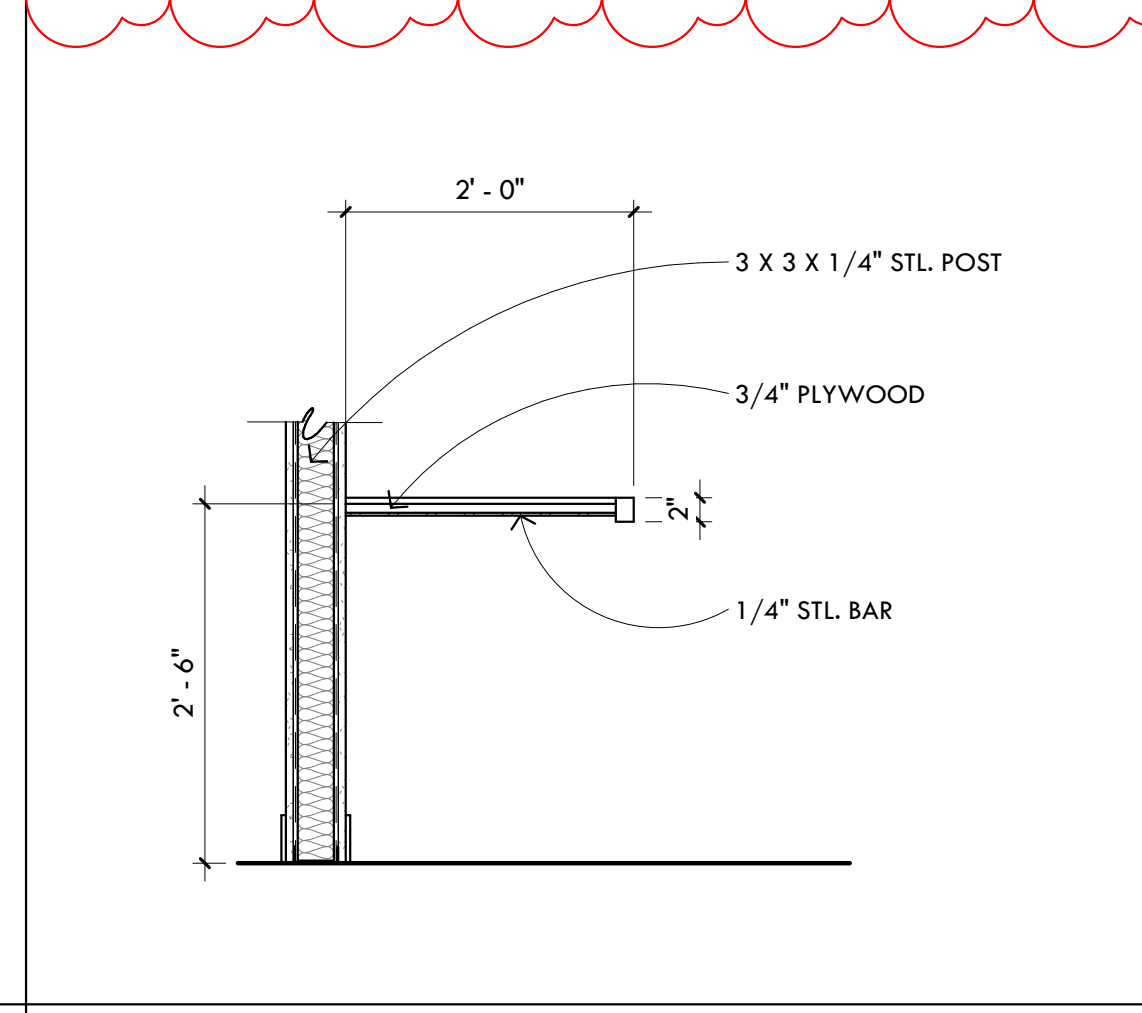
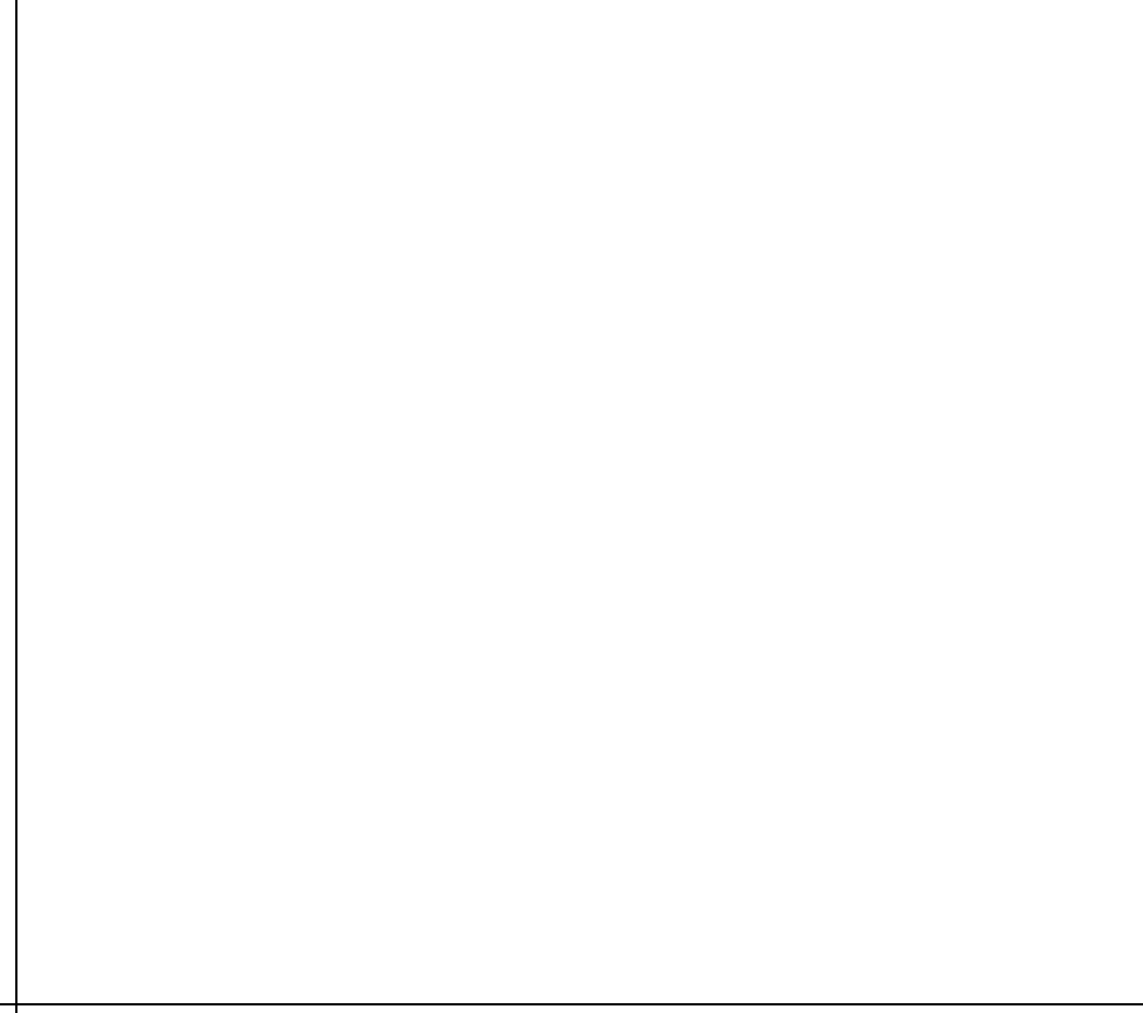
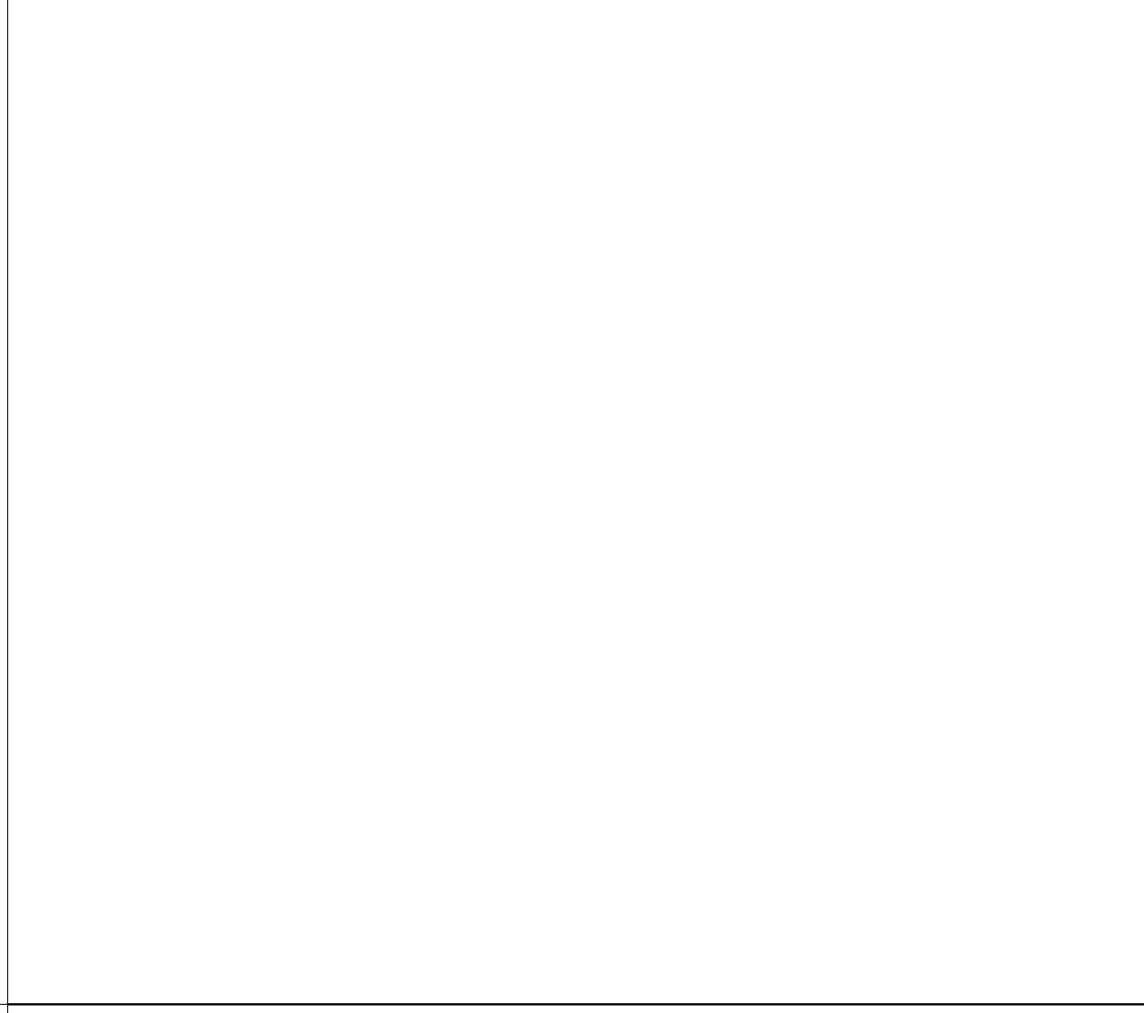
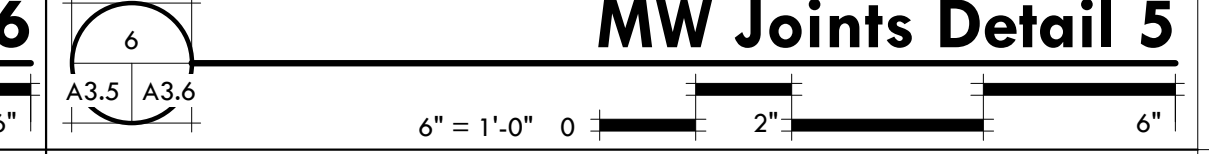
Lobby Worktop Detail



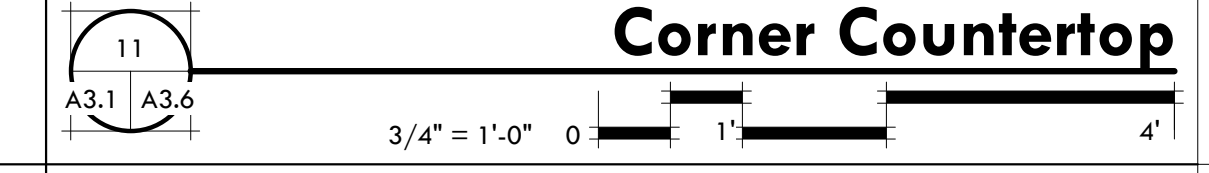
MW Joints Detail 6



MW Joints Detail 5



Corner Countertop



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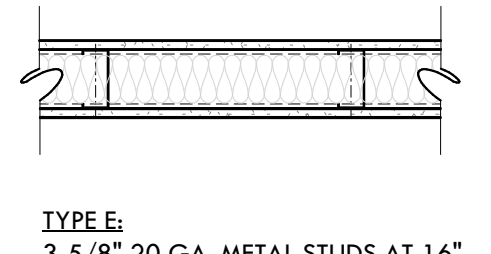
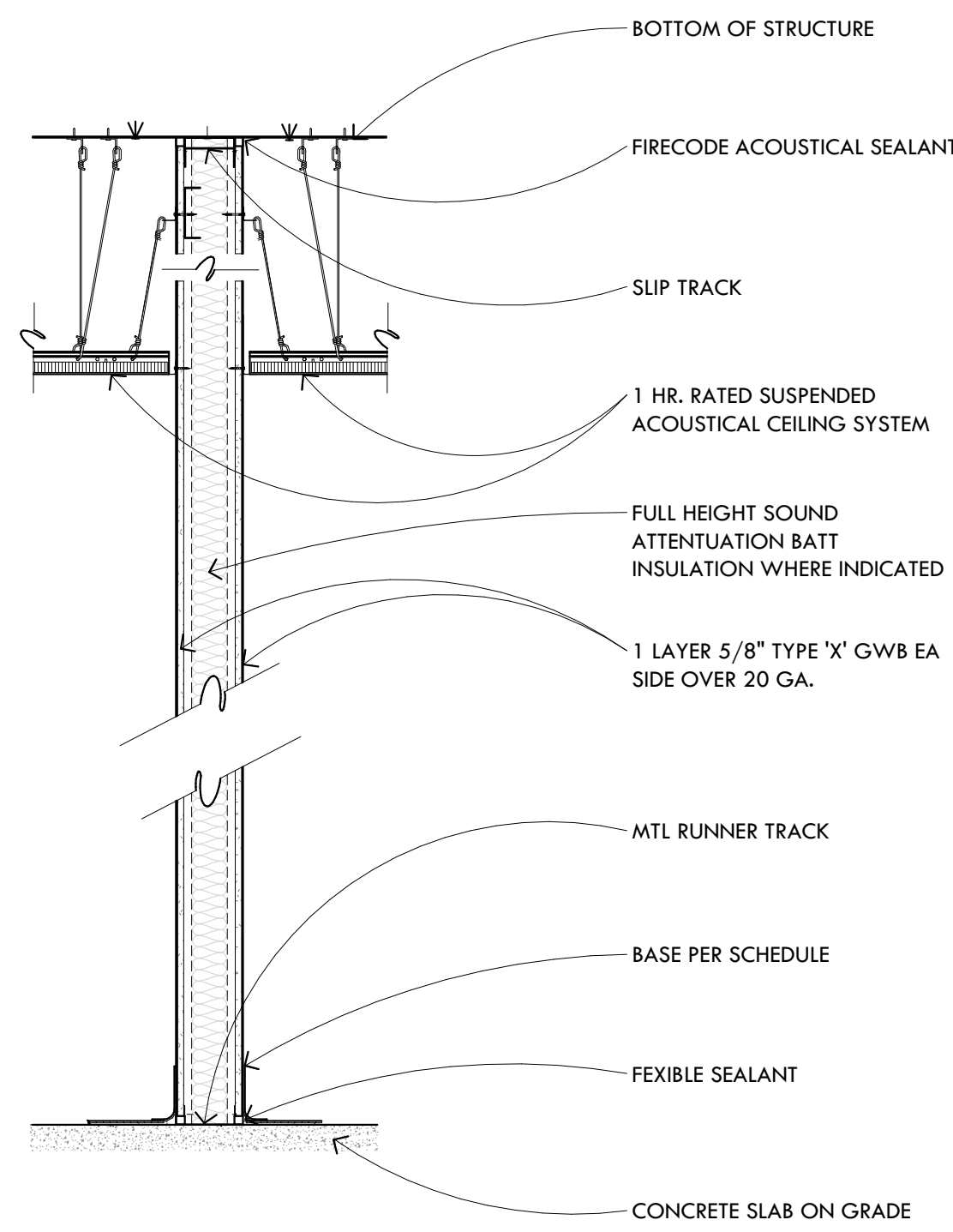
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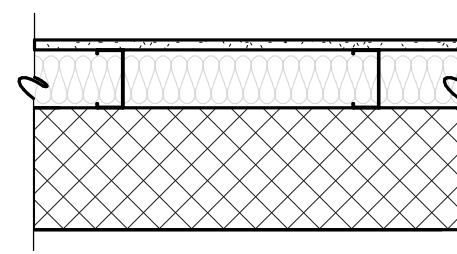
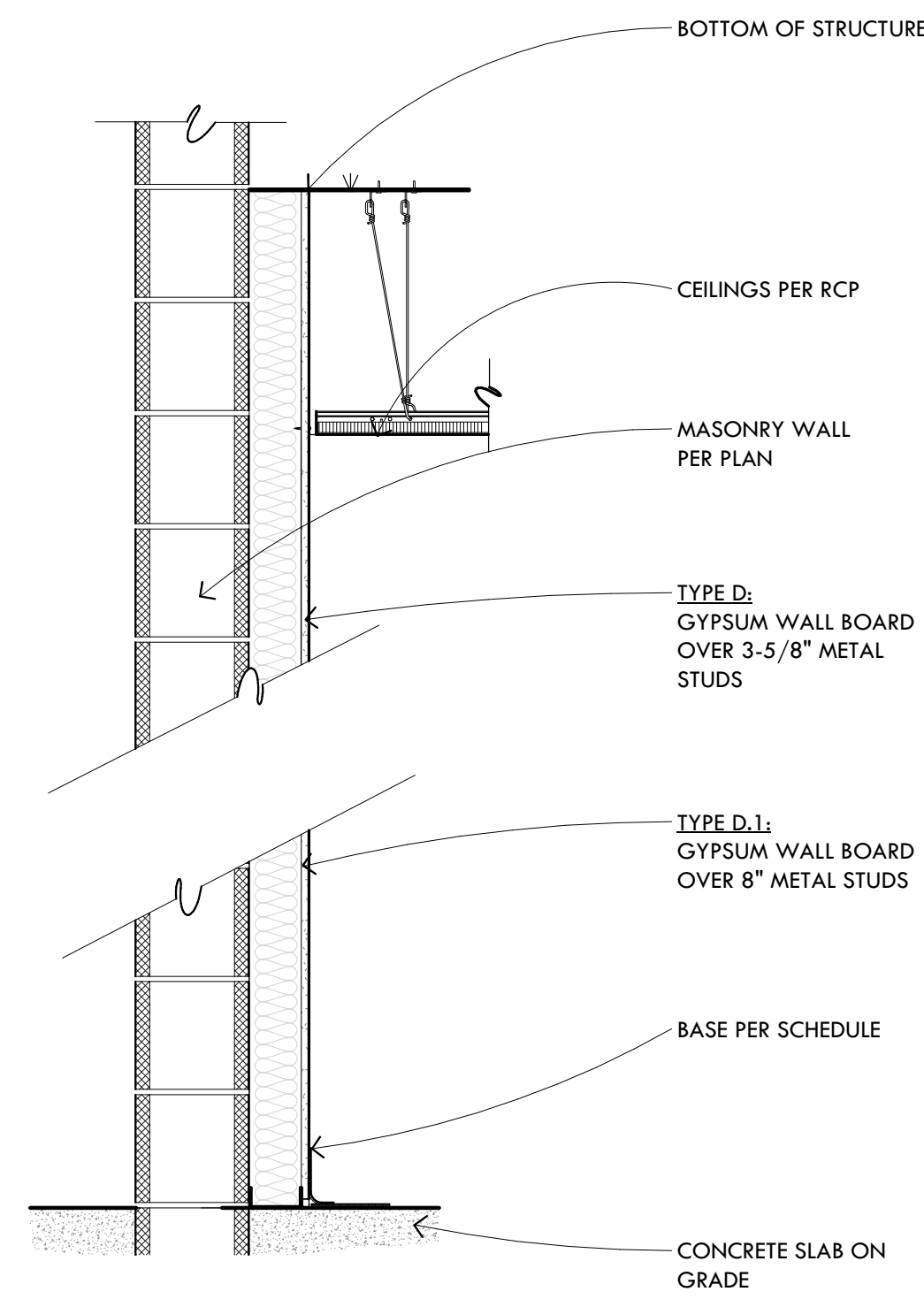
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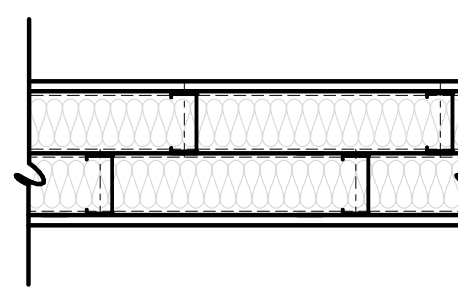
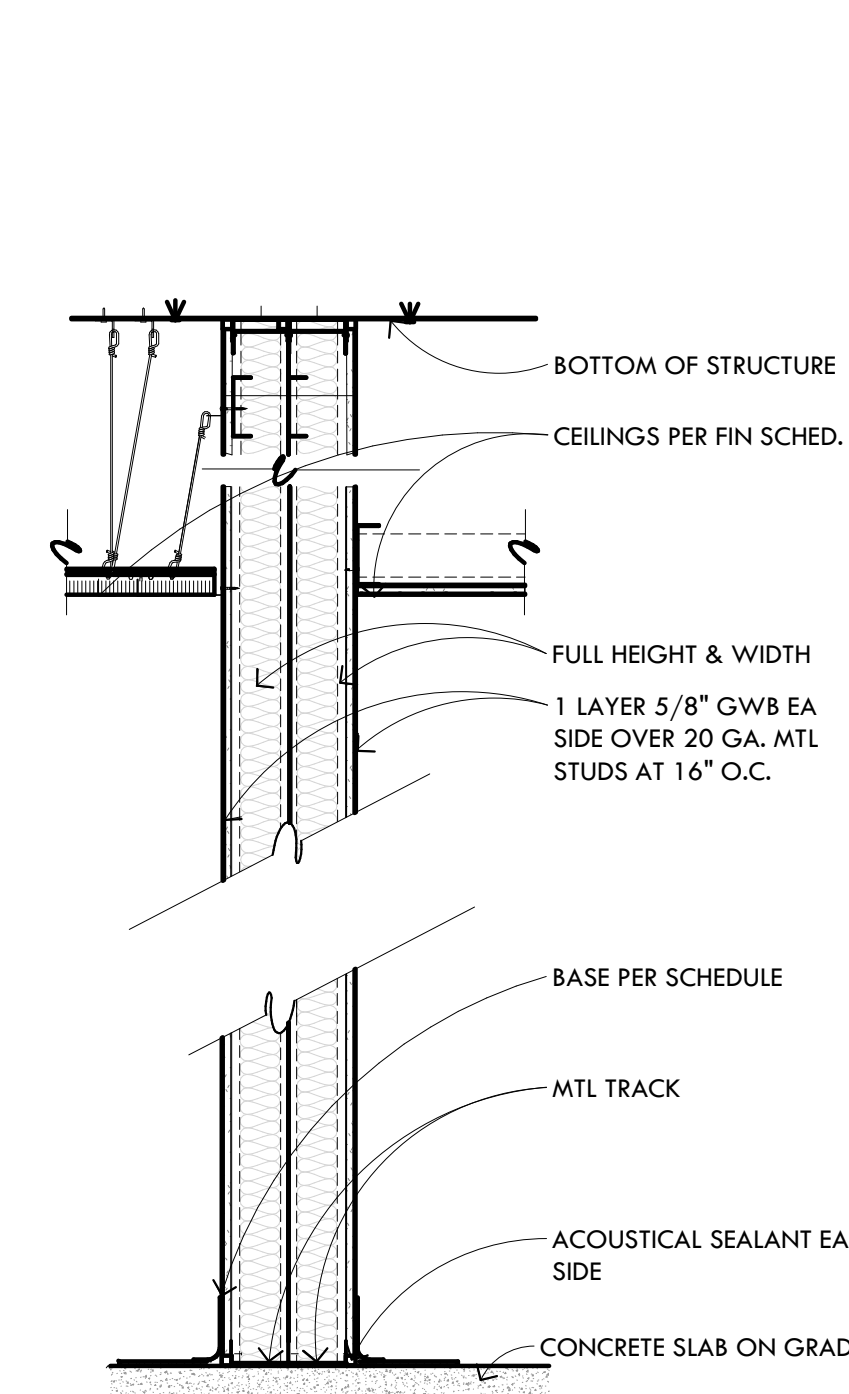
TYPE E:
 3-5/8" 20 GA. METAL STUDS AT 16" O.C.
 3-1/2" SOUND ATTENUATION BLANKET
 1 HR FIRE RATED PARTITION
 UL DESIGN - U465
 UL DESIGN - V438



TYPE D:
 (1) 12 CMU BLOCK (1) 3-5/8" 20 GA. METAL STUDS AT 16" O.C. WITH (1) LAYER OF 5/8" GWB 6" ABOVE FINISH CEILING

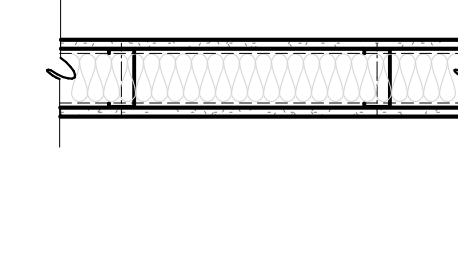
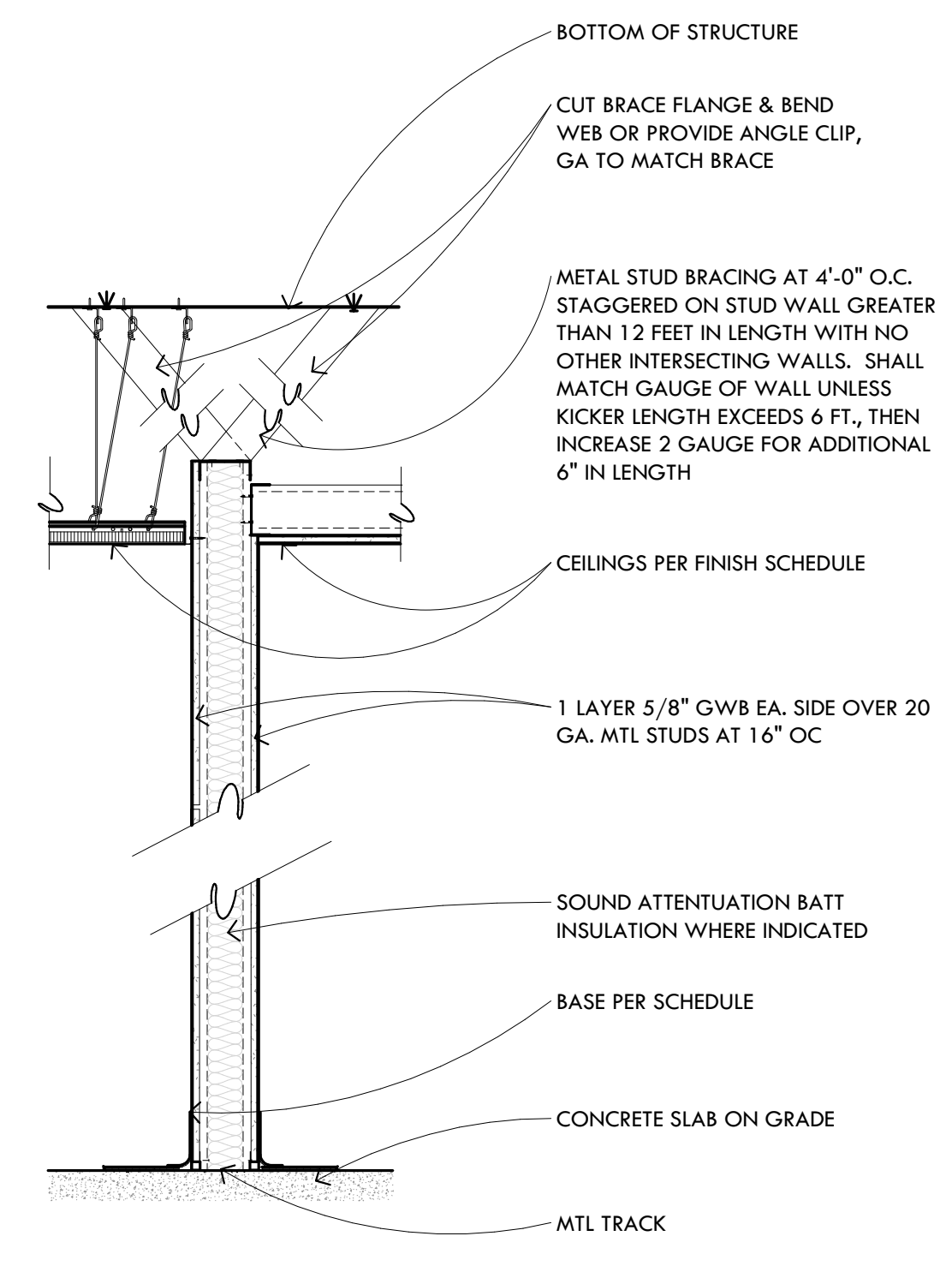
TYPE D.1:
 SIMILAR TO 'D' - 8" 20 GA. METAL STUDS

NOTE: IN WET AREAS PROVIDE MOISTURE RESISTANT GYPSUM BOARD OR CEMENT BOARD AS A BACKER FOR CERAMIC TILE LOCATIONS



TYPE C:
 (2) 6" 20 GA. METAL STUDS STAGGERED 16" O.C. WITH (1) LAYER OF 5/8" GWB AT EACH SIDE, AND (2) LAYERS OF 6-1/4" SOUND INSULATION TO THE BOTTOM OF STRUCTURE

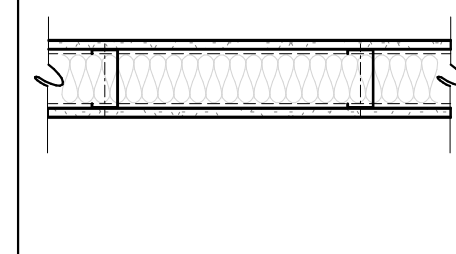
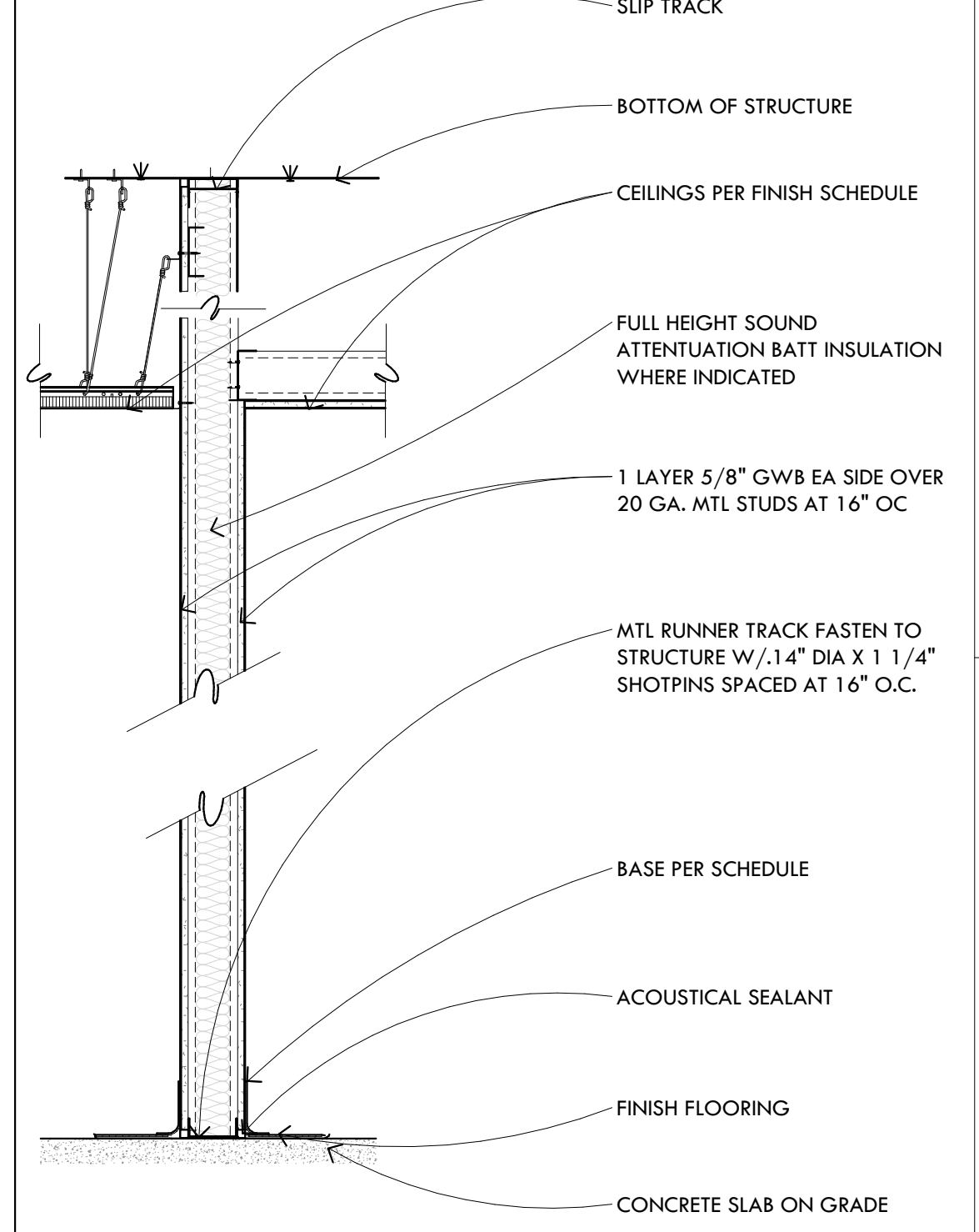
1 HR PARTITION
 UL DESIGN: U465
 UL DESIGN: V438



TYPE B:
 3-5/8" 20 GA. METAL STUDS
 3-1/2" SOUND ATTENUATION BLANKET

TYPE B.1:
 6" 20 GA. METAL STUDS
 5-1/2" SOUND ATTENUATION BLANKET

NOTE: IN WET AREAS PROVIDE MOISTURE RESISTANT GYPSUM BOARD OR CEMENT BOARD AS A BACKER FOR CERAMIC TILE LOCATIONS



TYPE A:
 3-5/8" 20 GA. METAL STUDS AT 16" O.C.
 3-1/2" SOUND ATTENUATION BLANKET

TYPE A.1:
 SIMILAR TO 'A' - 6" 20 GA. METAL STUDS
 5-1/2" SOUND ATTENUATION BLANKET

TYPE A.2:
 SIMILAR TO 'A' - 8" 20 GA. METAL STUDS
 7-1/2" SOUND ATTENUATION BLANKET

NOTE: IN WET AREAS PROVIDE MOISTURE RESISTANT GYPSUM BOARD OR CEMENT BOARD AS A BACKER FOR CERAMIC TILE LOCATIONS

5 Partition Type E - 1 Hr Partition
 SCALE: 1" = 1'-0" 0 4 12'

4 Partition Type D
 SCALE: 1" = 1'-0" 0 4 12'

3 Partition Type C
 SCALE: 1" = 1'-0" 0 4 12'

2 Partition Type B
 SCALE: 1" = 1'-0" 0 4 12'

1 Partition Type A
 SCALE: 1" = 1'-0" 0 4 12'

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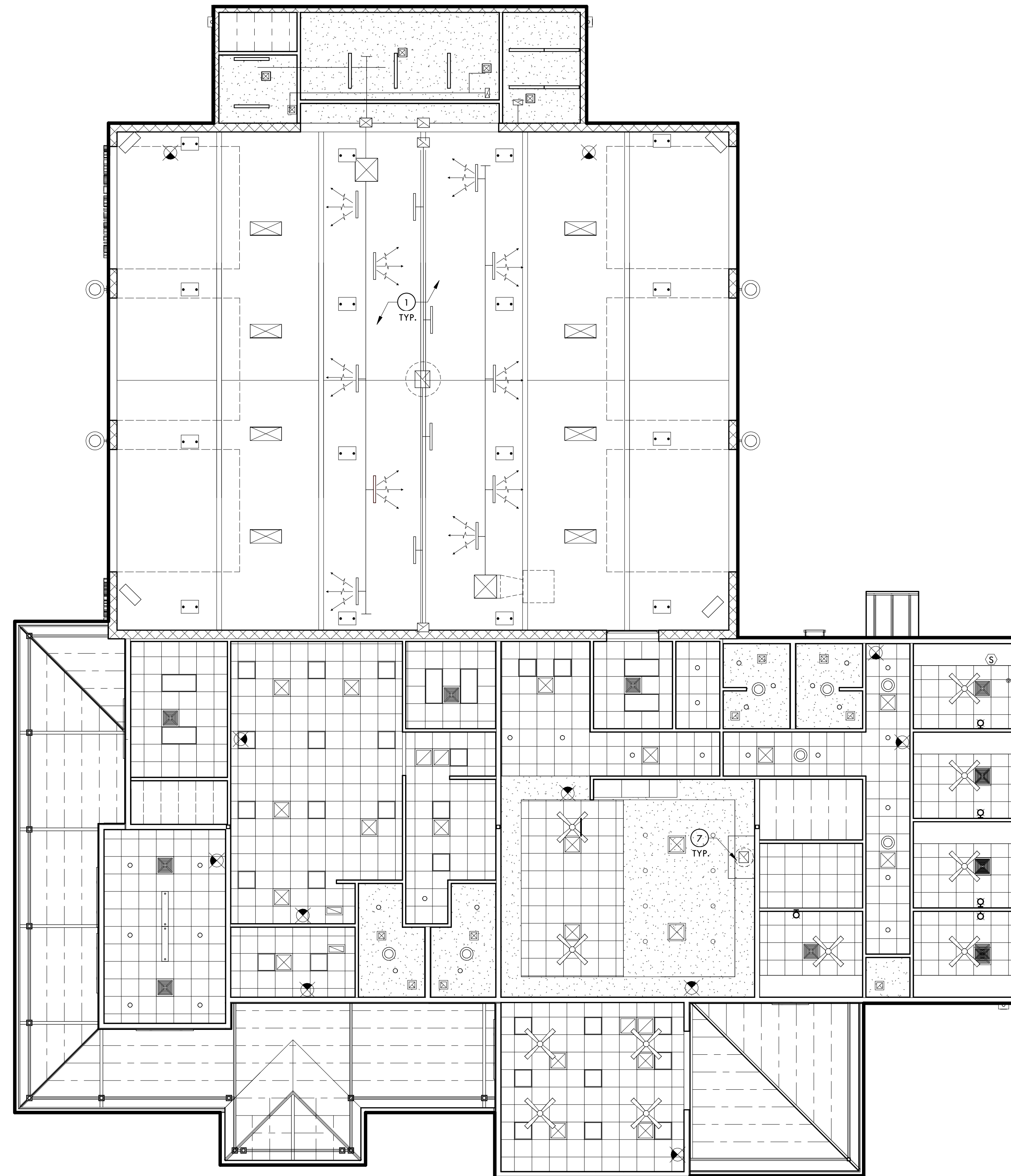
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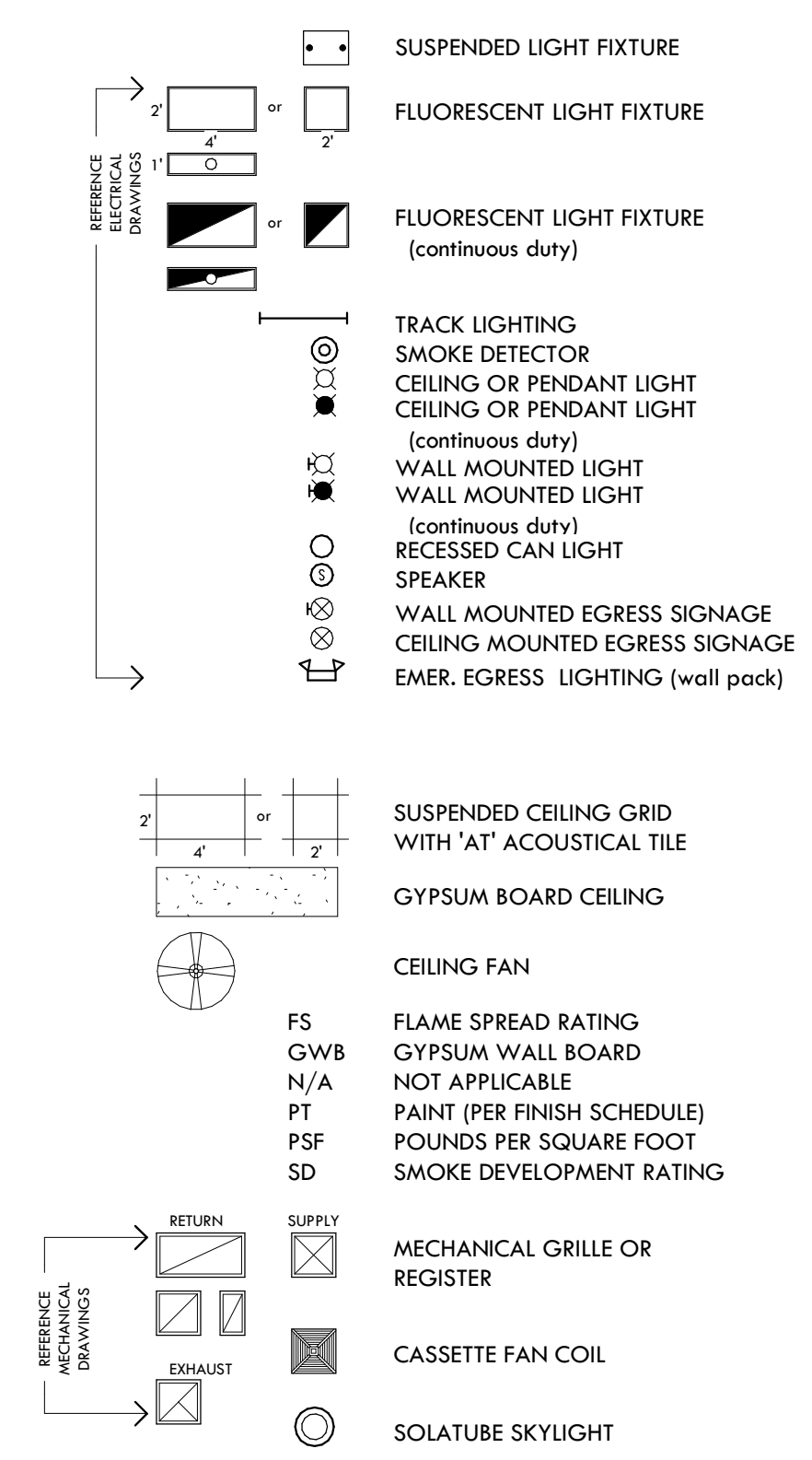
General Notes

1. ALL CEILING HEIGHTS ARE NOTED ON THE FINISH SCHEDULE UNLESS IT IS OPEN STRUCTURE.
4. LOCATE ALL CEILING FIXTURES & MECHANICAL OPENINGS PER ARCHITECTURAL REFLECTED CEILING PLAN.
5. ALL CEILING GRIDS TO BE CENTERED BETWEEN WALLS U.N.O. CEILING PARTIAL TILES AT ROOM PERIMETERS SHALL NOT BE LESS THAN 6" IN EITHER DIMENSION.
6. FOR LOCATION OF EXIT LIGHTS AND EMERGENCY ILLUMINATION, REFER TO ELECTRICAL PLAN. ALL EXIT LIGHTS TO BE WALL MOUNTED, ABOVE DOOR U.N.O. REFER TO MECHANICAL AND ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION.
7. 18" MINIMUM VERTICAL CLEARANCE SHALL BE MAINTAINED BETWEEN THE BOTTOM OF THE EXTENDED SPRINKLER HEADS AND THE TOP OF ANY FILES, SHELVING, LOCKERS, ETC. ALL CEILING ELEMENTS TO BE PLACED IN THE CENTER OF CEILING TILE OR CENTER OF GYP. BOARD CEILING AREA U.N.O.
8. CENTER SPRINKLER HEAD IN TILE IN BOTH DIRECTIONS (SPRINKLER HEADS ARE NOT SHOWN ON REFLECTED CEILING PLAN).
9. ALL ACCESS PANELS MAY NOT BE SHOWN ON REFLECTED CEILING PLANS. THE GENERAL CONTRACT SHALL COORDINATE ALL REQUIRED ACCESS PANELS WHETHER SHOWN OR NOT.
11. SMOKE DETECTORS TO BE LOCATED 36" AWAY FROM CEILING FAN BLADES AND AIR SUPPLY REGISTERS.

Keynotes

- ① EXPOSED STRUCTURE
- ② ROOF ACCESS LADDER
- ③ EXPOSED MECH, DUCTWORK, SEE MECH.
- ④ POWER HOSE AND AIR REELS MOUNTED ON A 24"x24"x1/4" STL. PLATE SUSPENDED FROM STRUCTURE WITH UNISTRUTS COORDINATE HEIGHT WITH OWNER
- ⑤ CAD ALERT DISPLAY- MOUNT J-BOX HORIZONTALLY, BOTTOM OF BOX
- ⑥ SPRINKLER HEAD
- ⑦ SOFFIT

Legend



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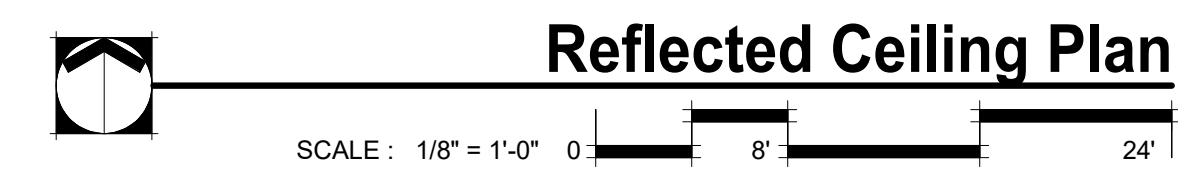
Tubac Fire Station #1
 2227 I-19 Frontage Rd., Tubac, AZ 85646
 Intermediate Plans

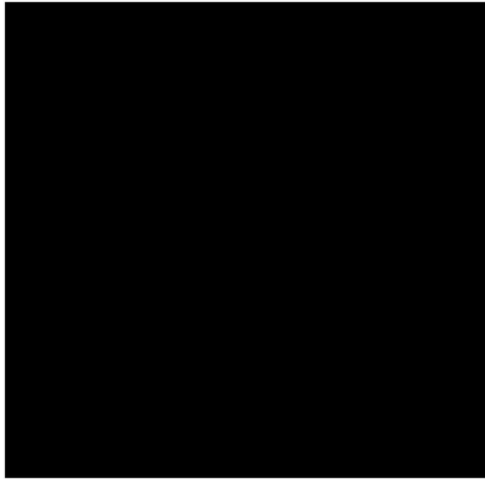
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Reflected Ceiling Plan
A4.1



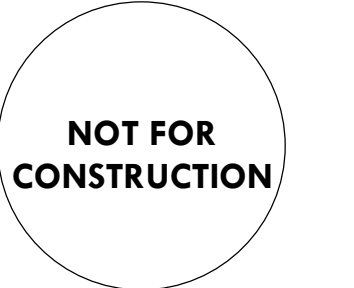


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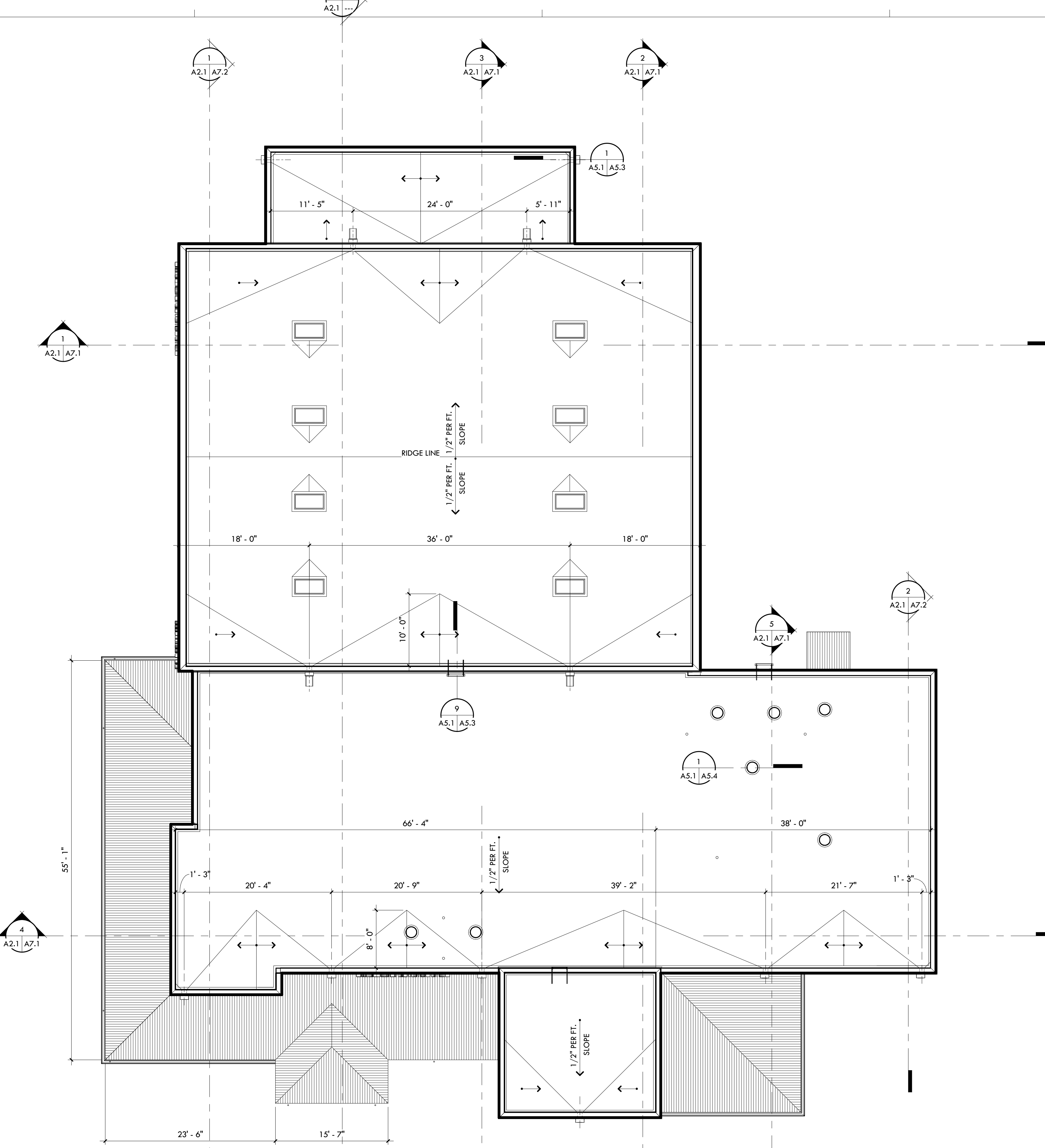
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Roof Plan

A5.1

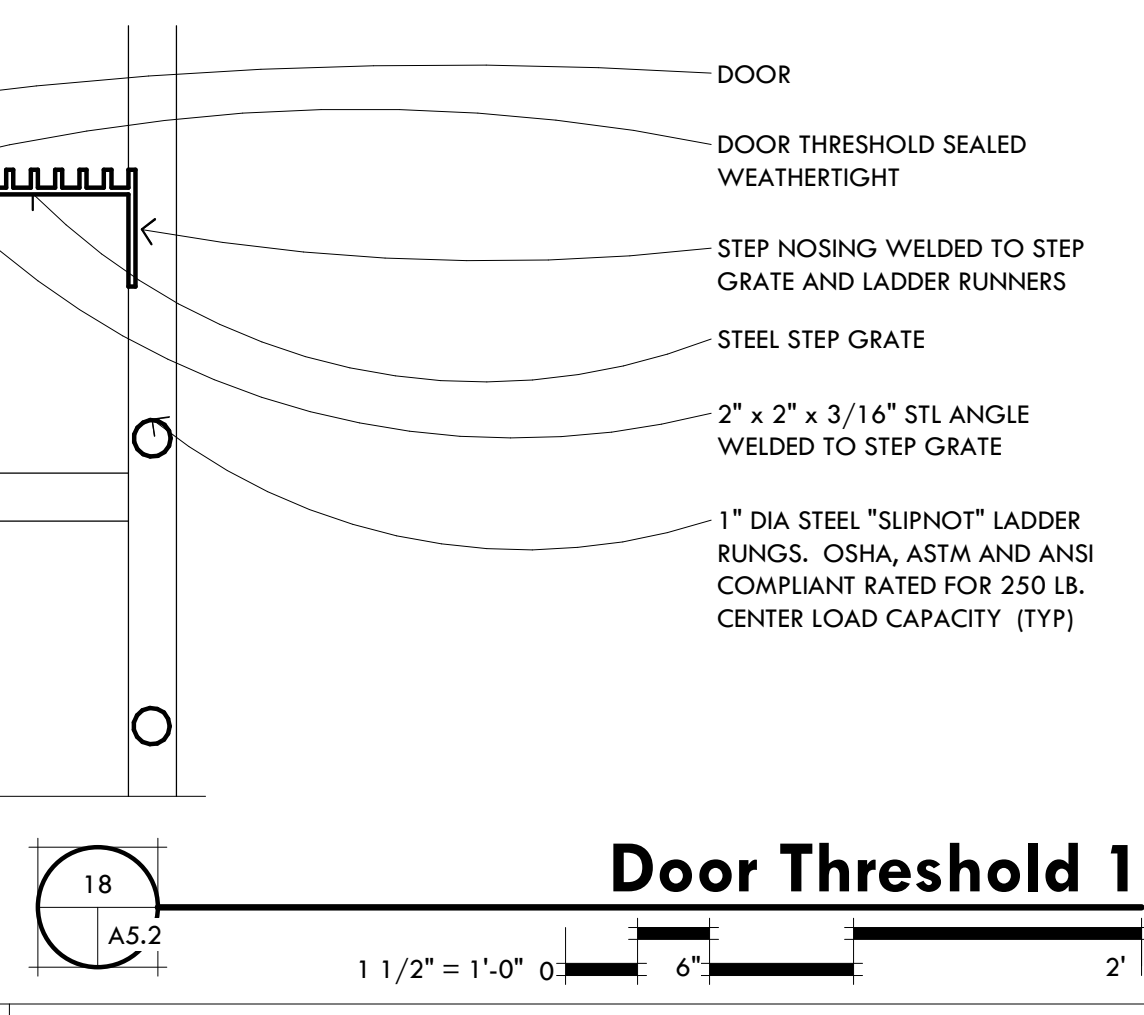
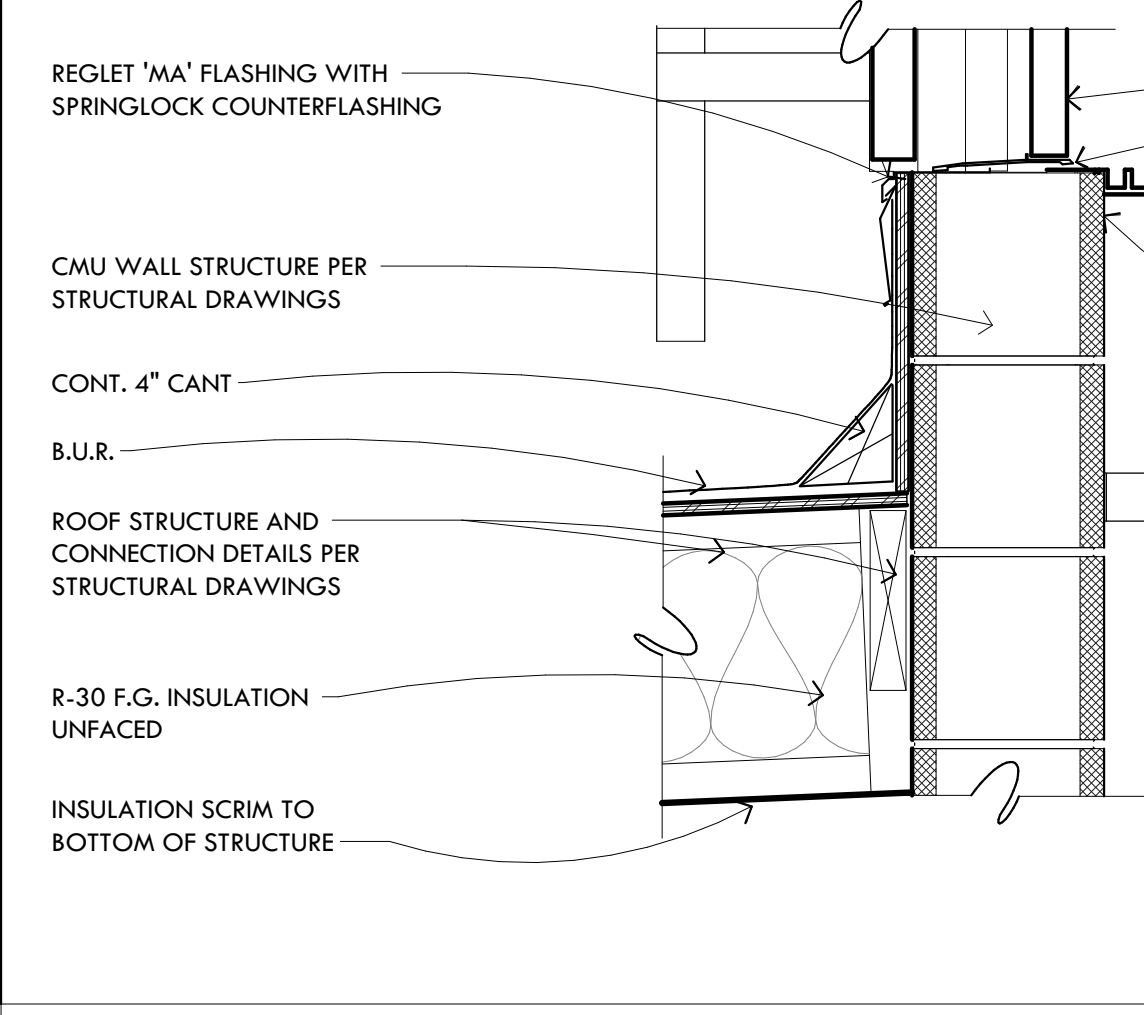
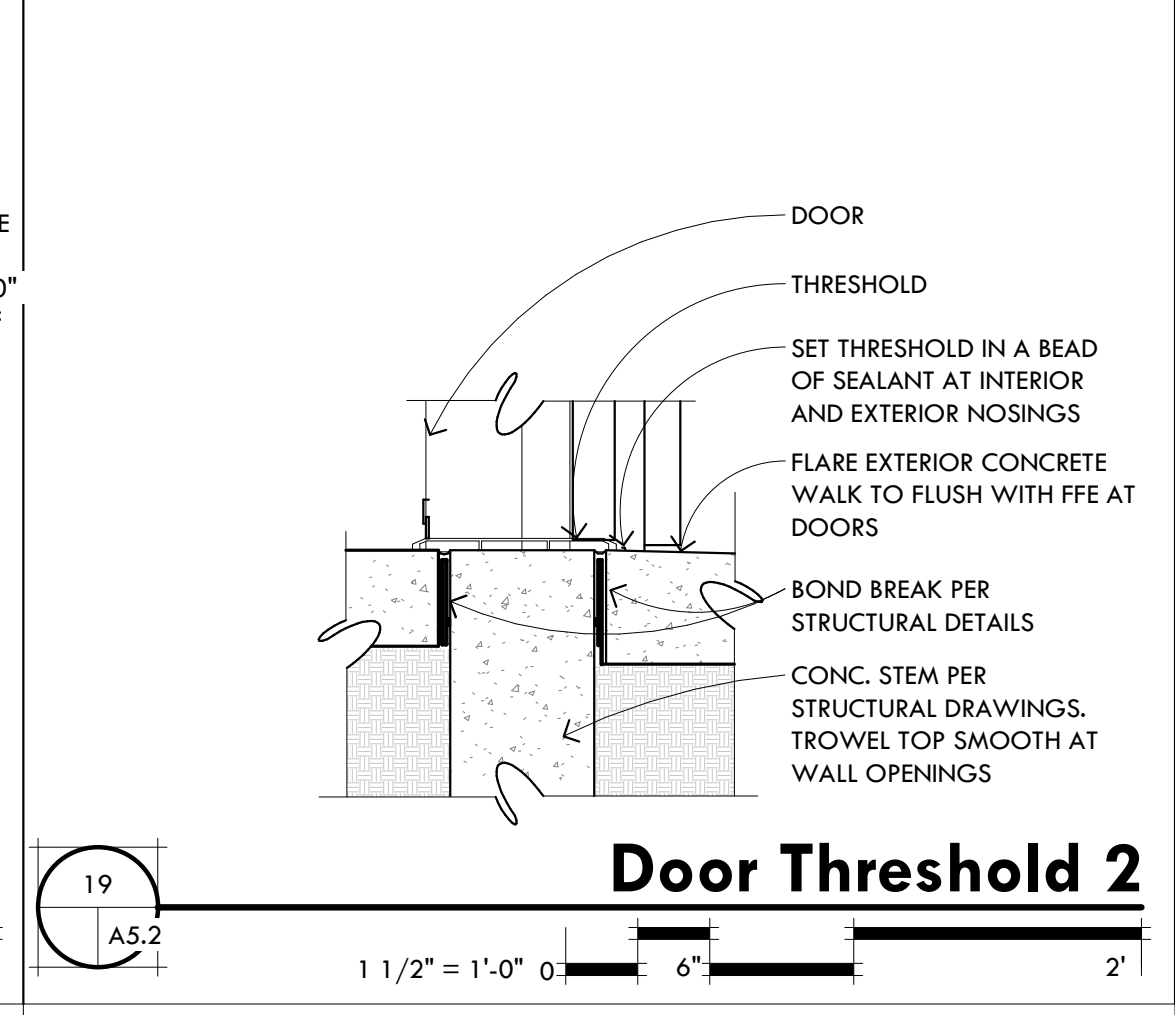
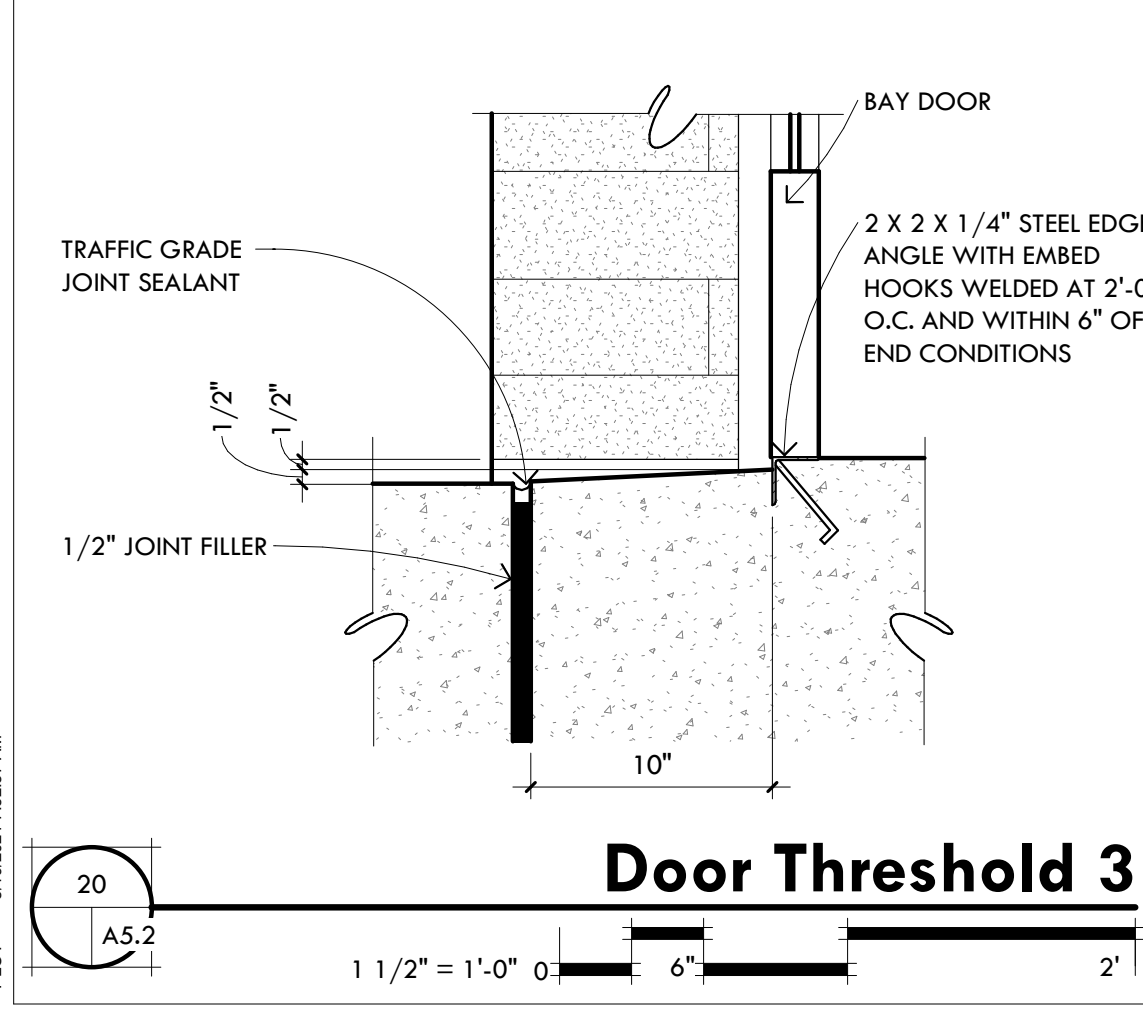
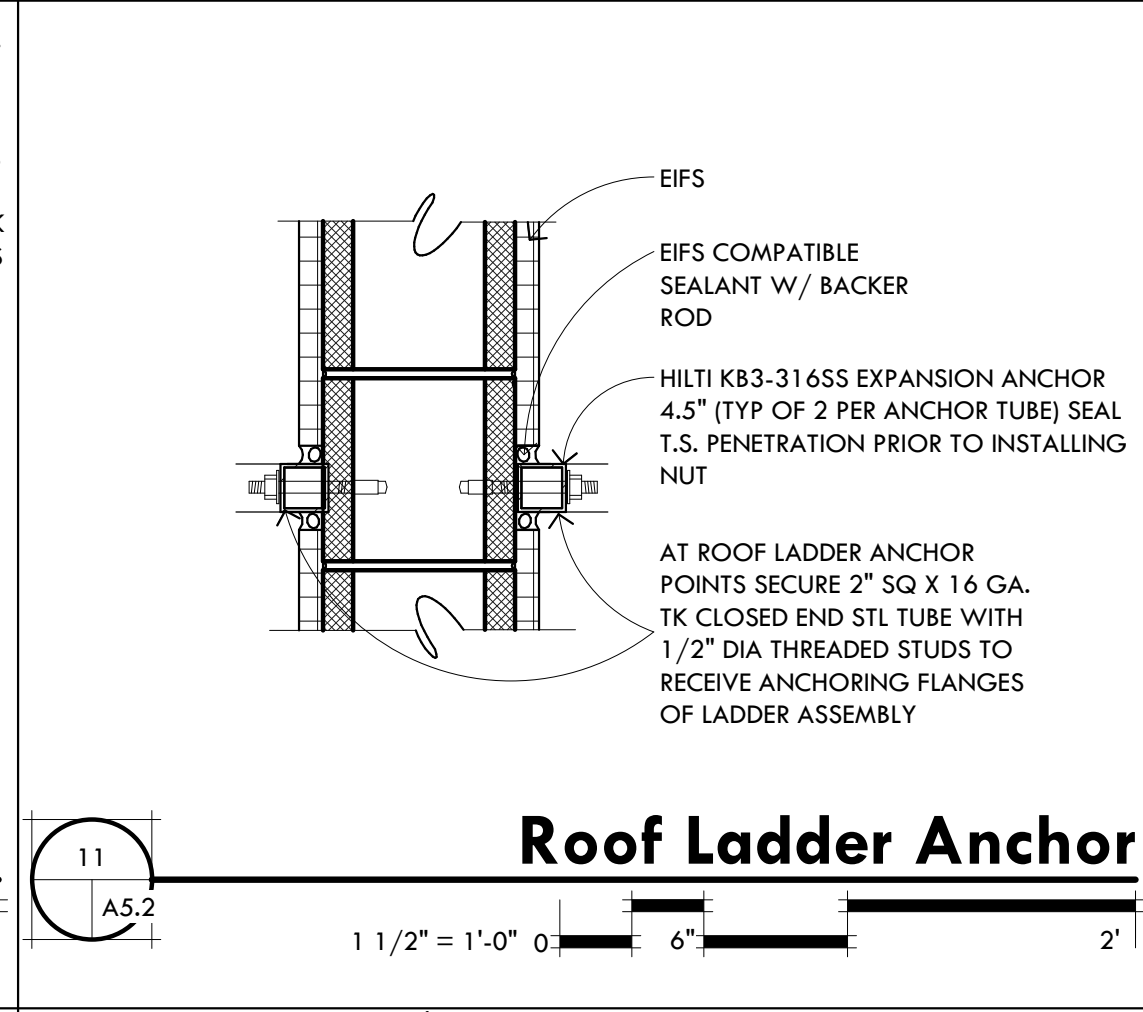
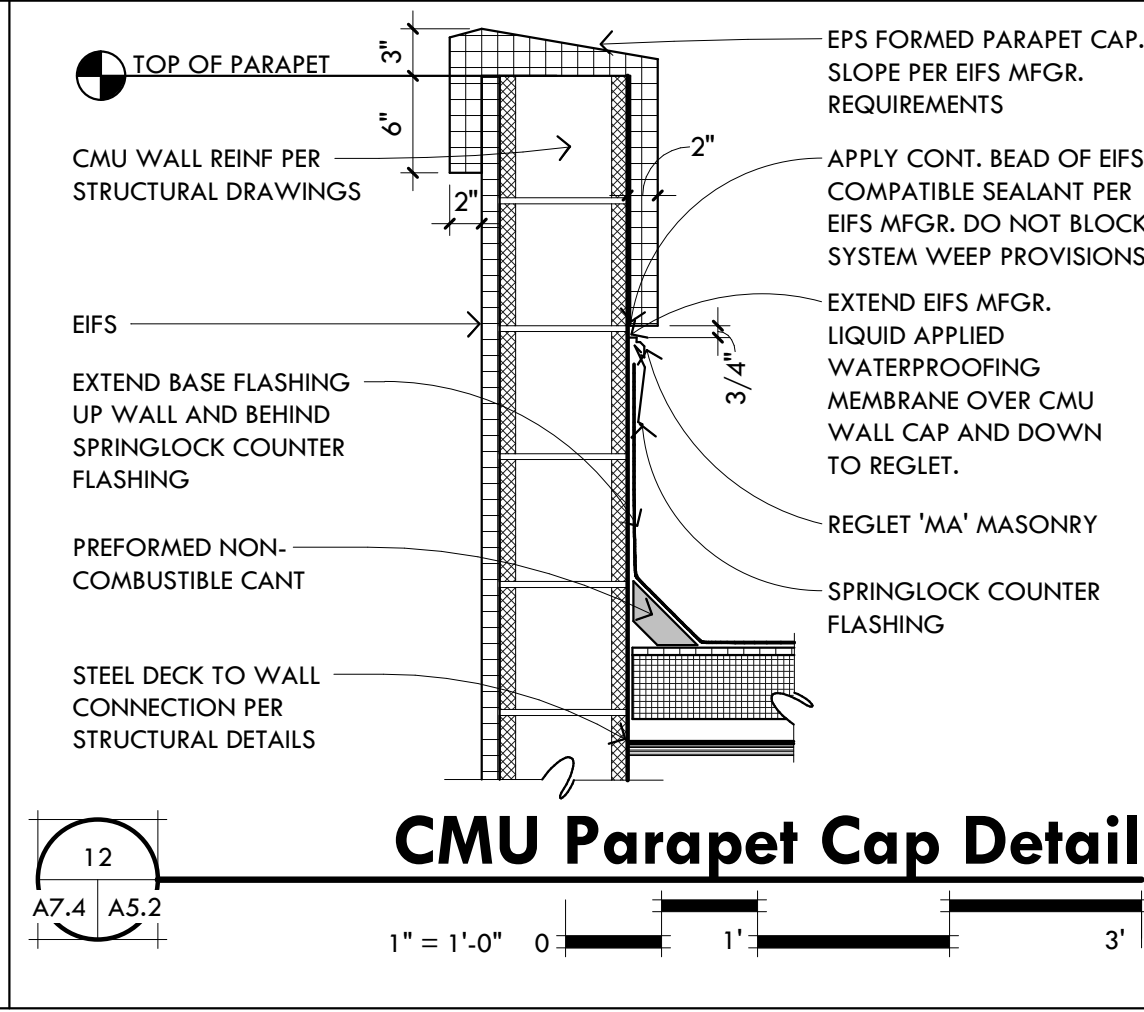
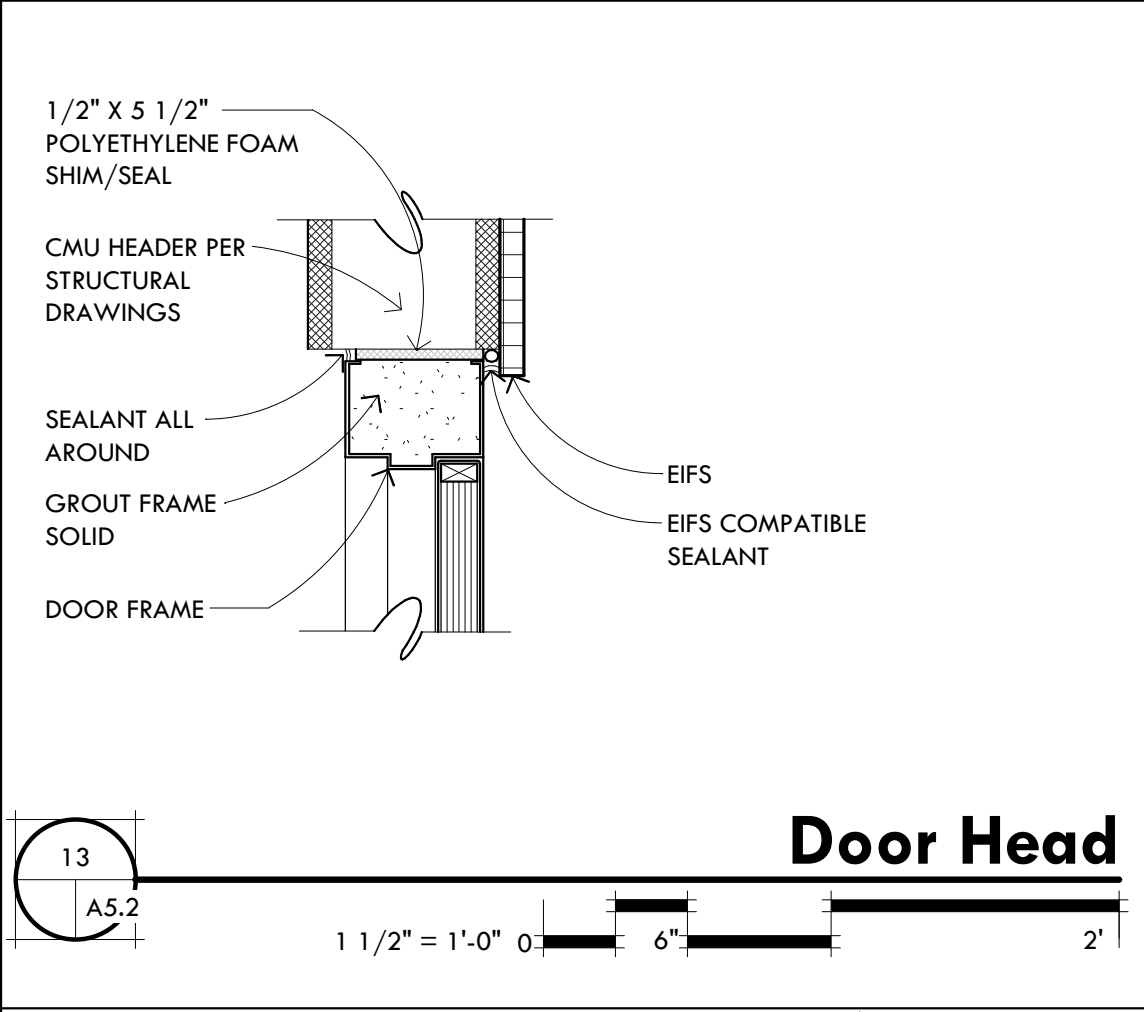
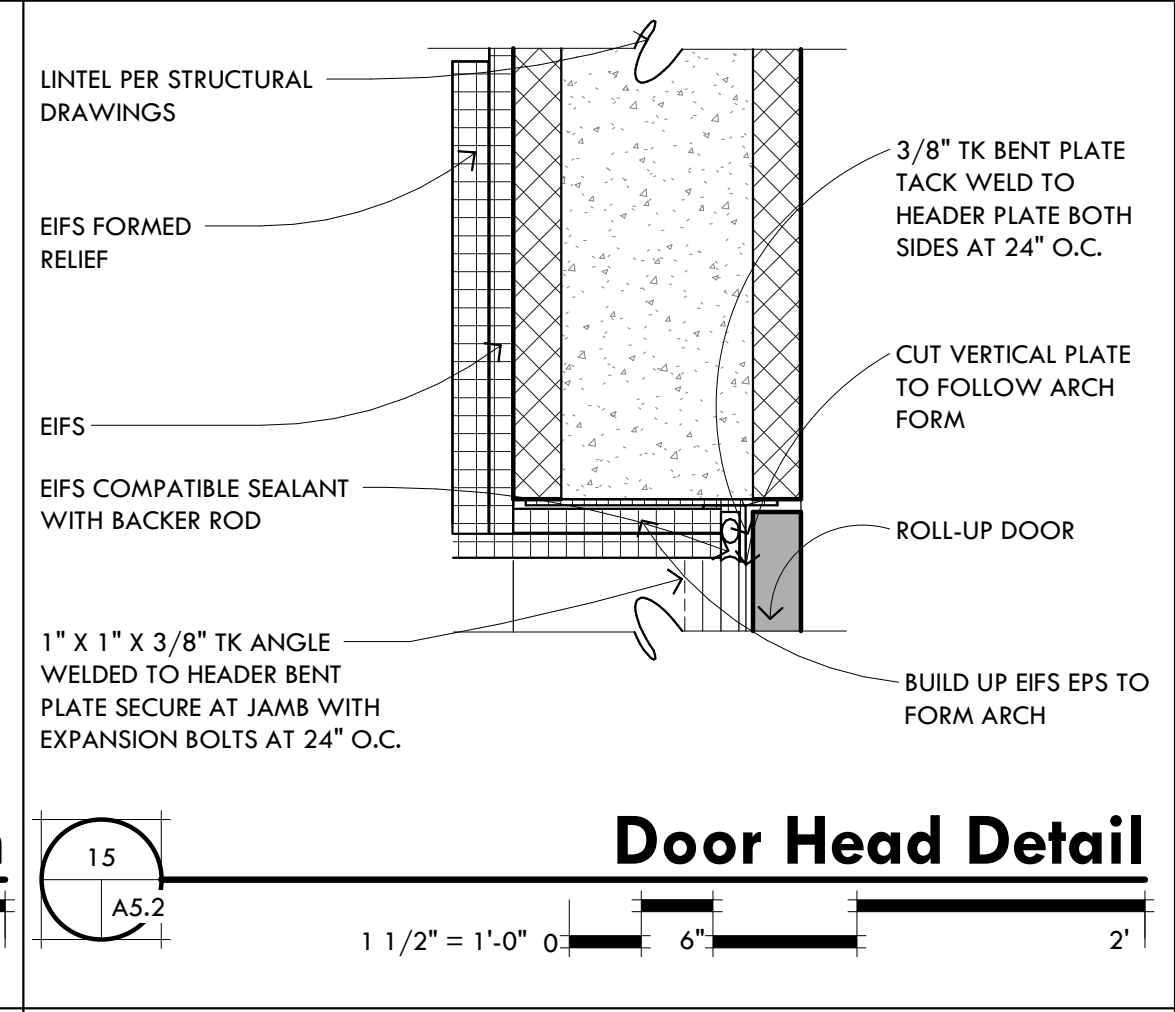
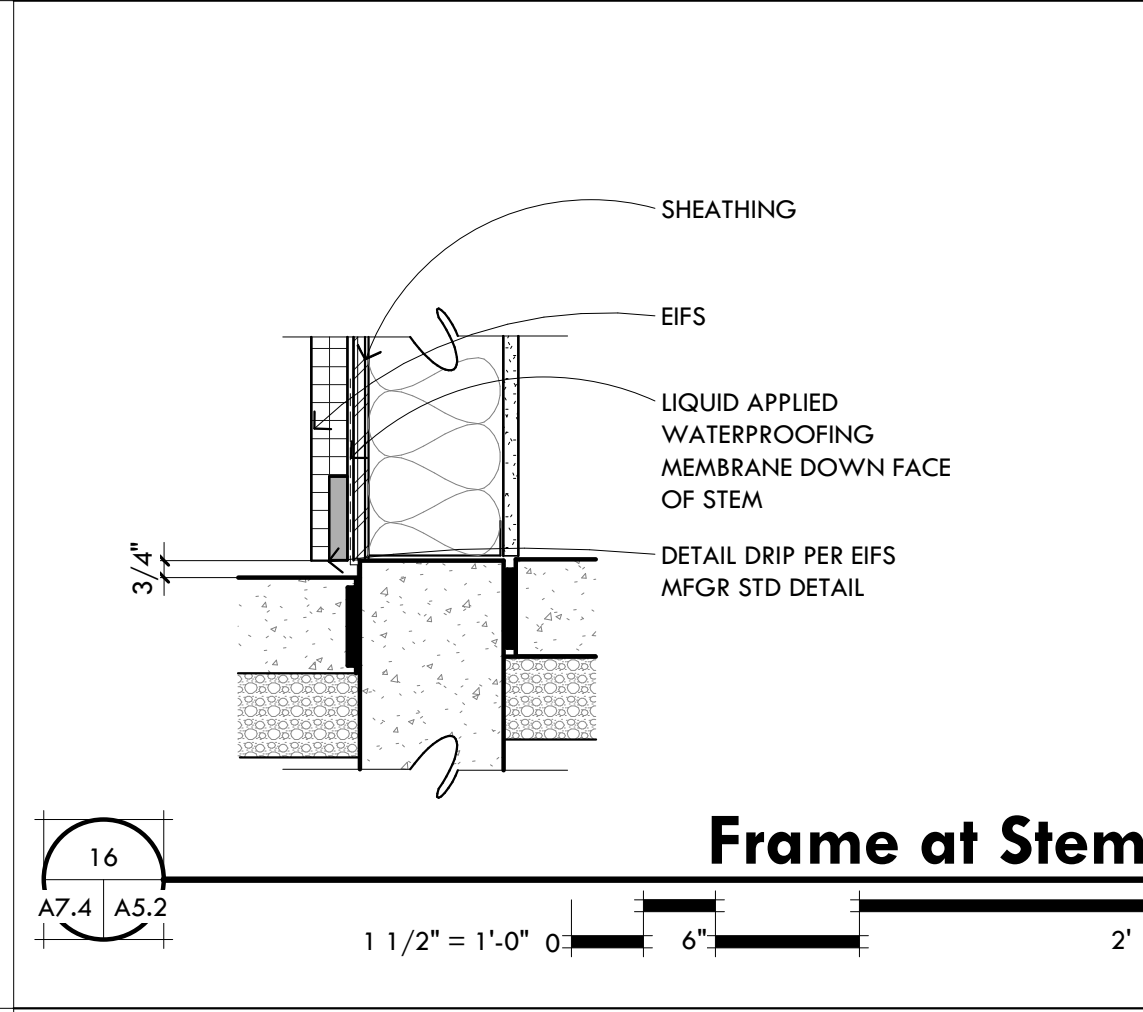
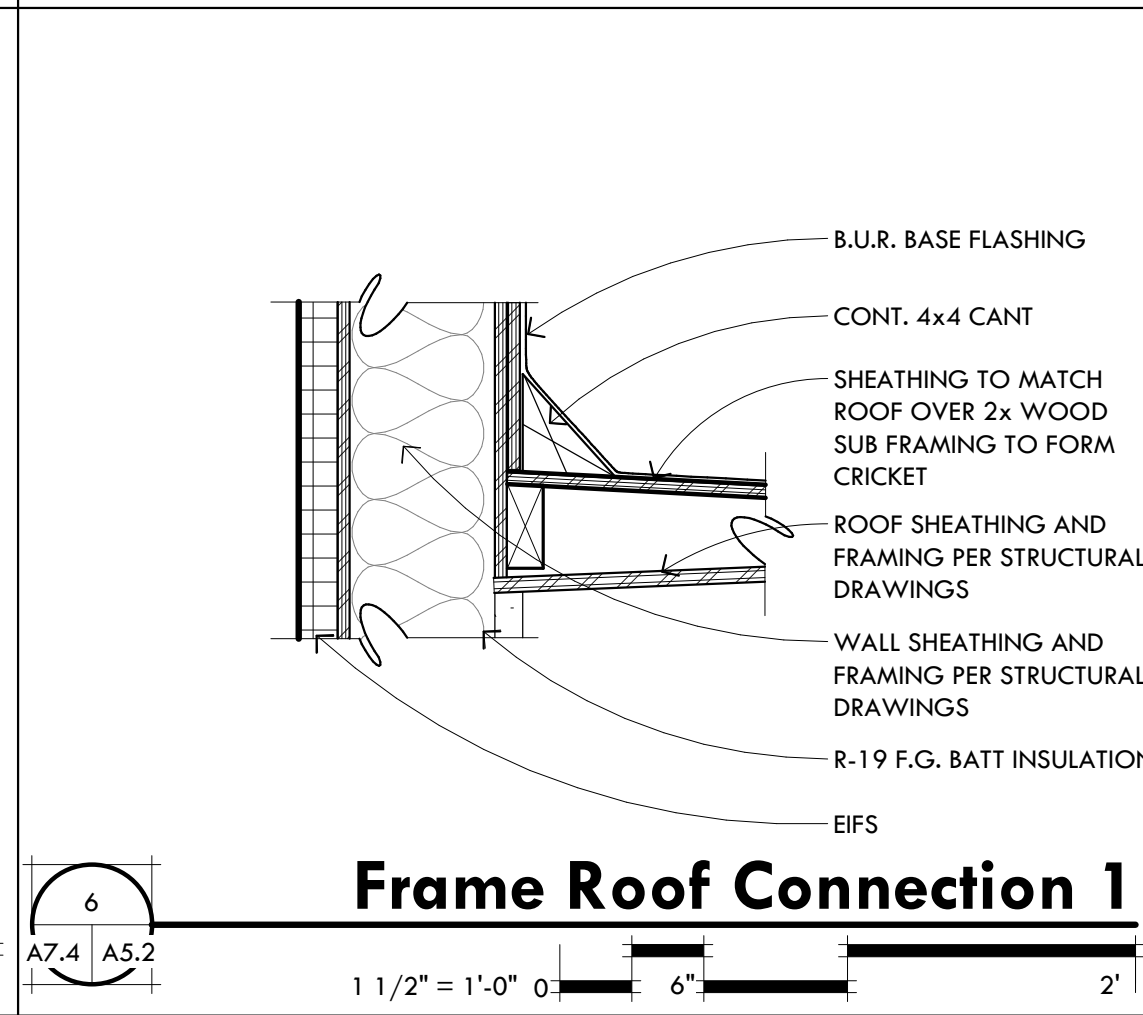
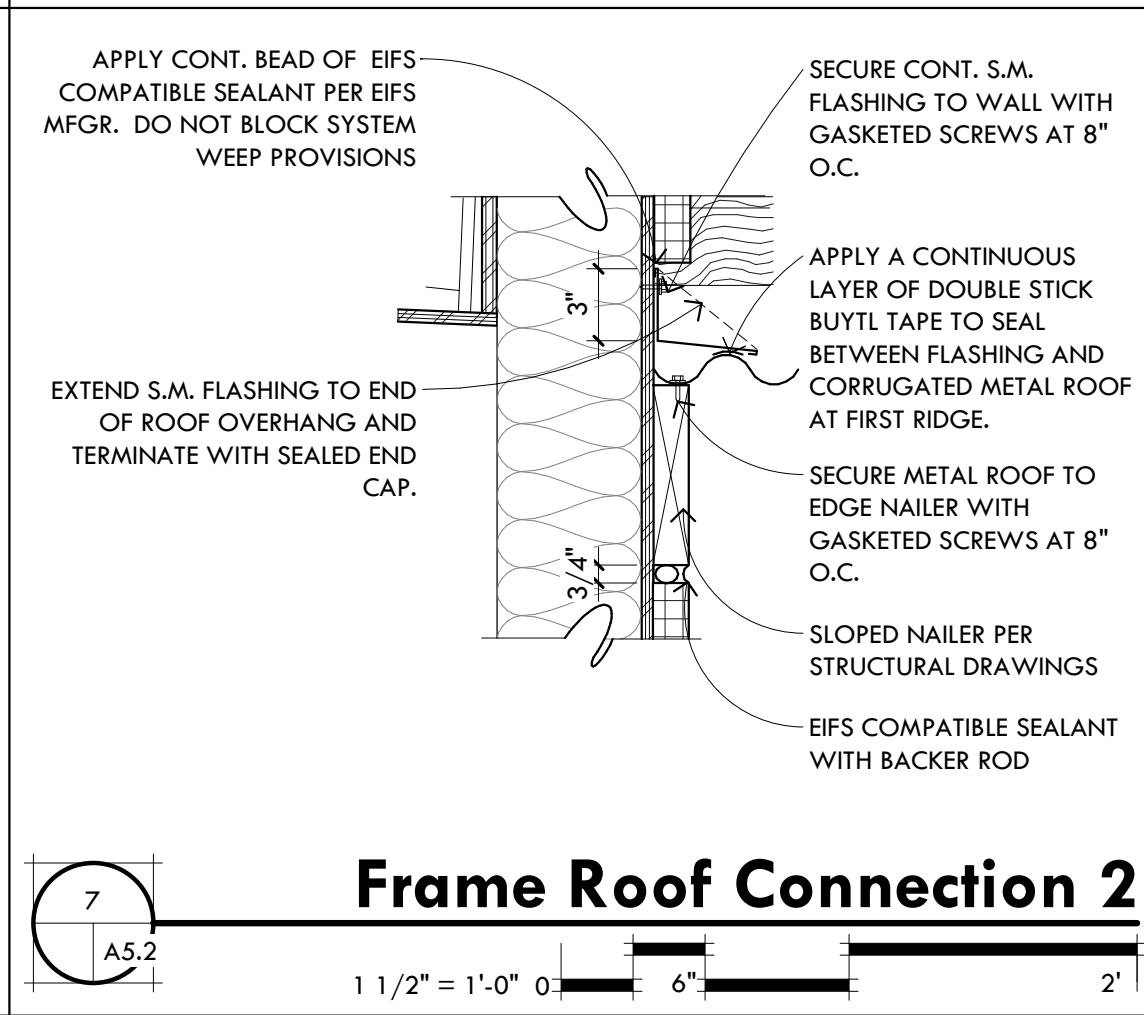
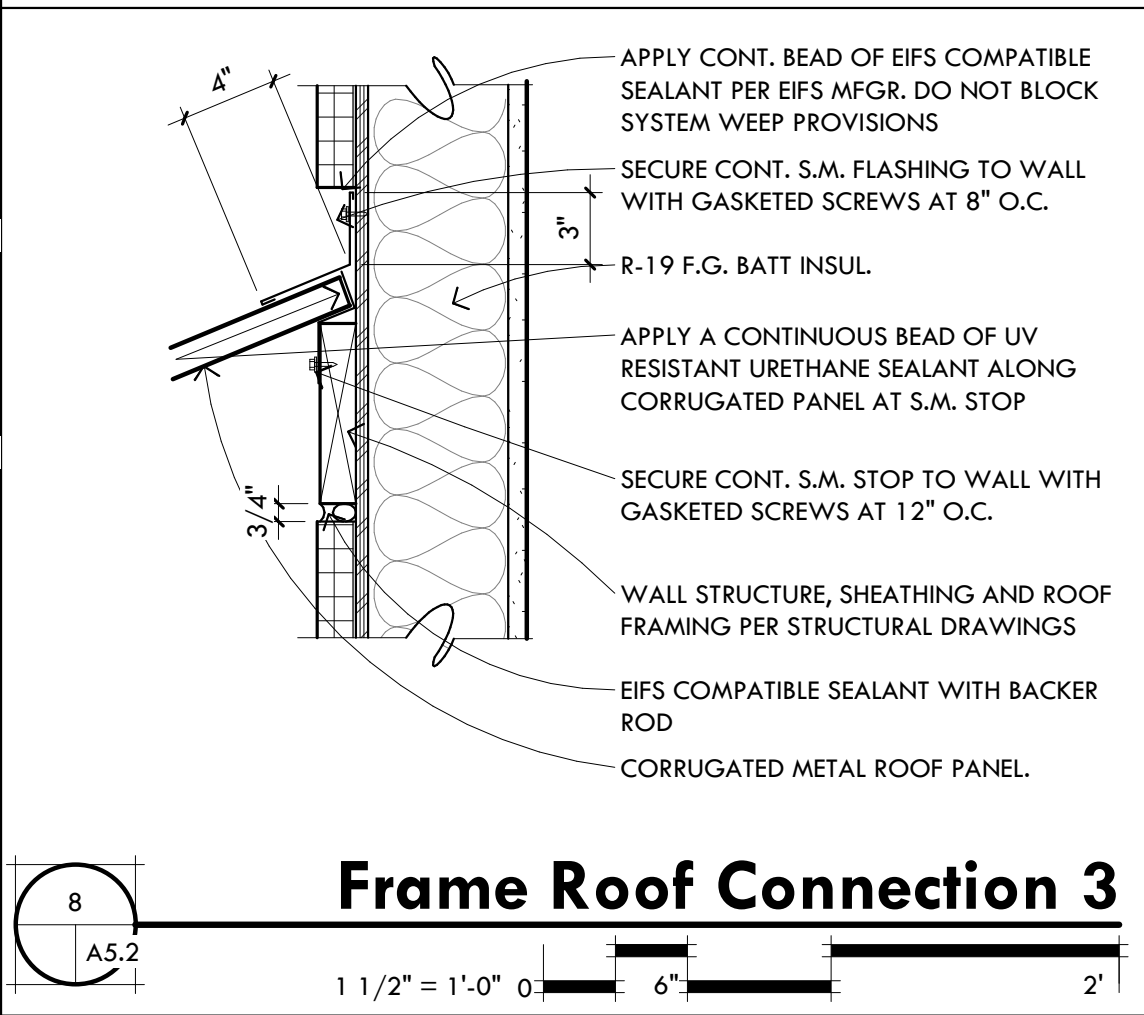
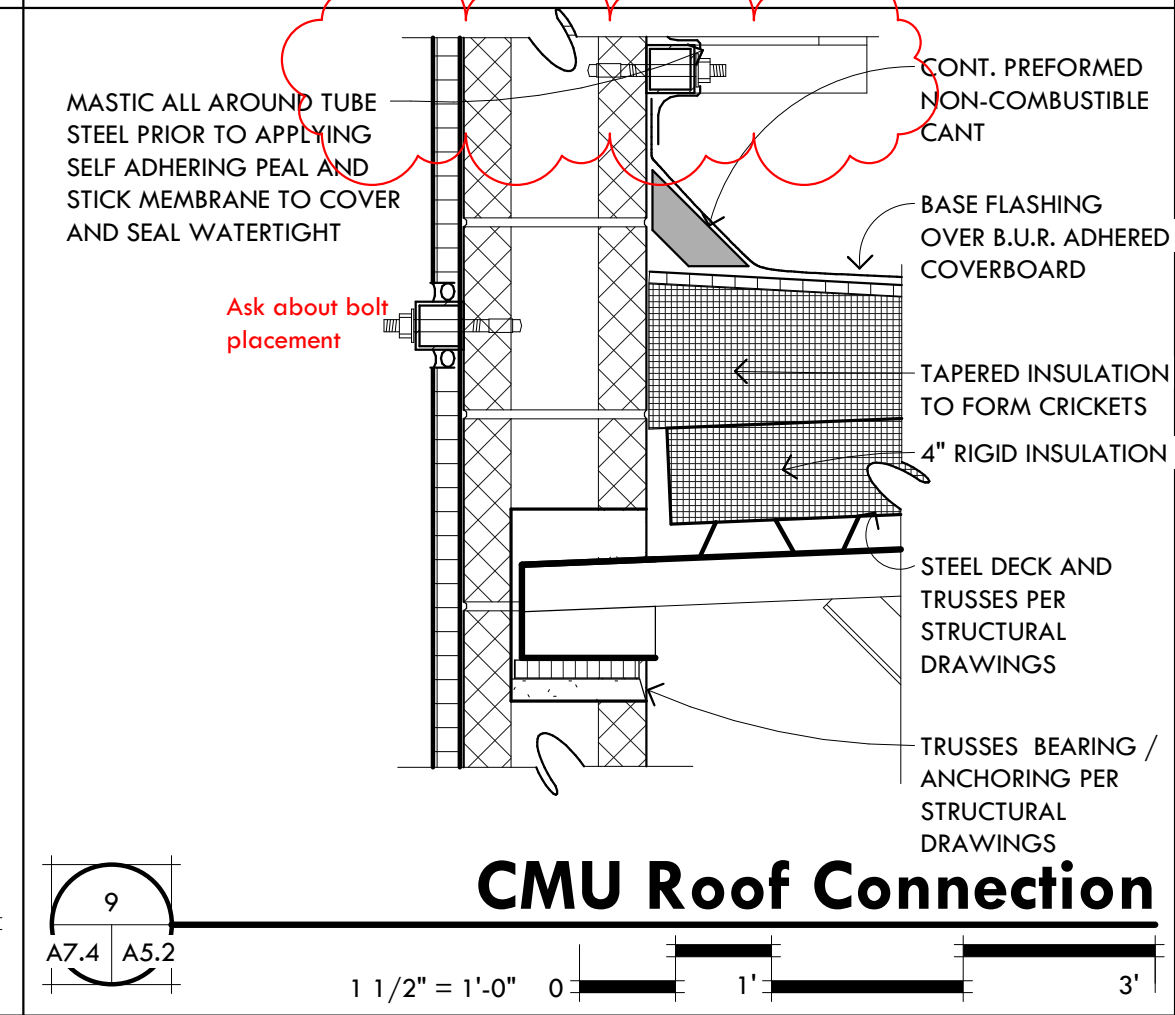
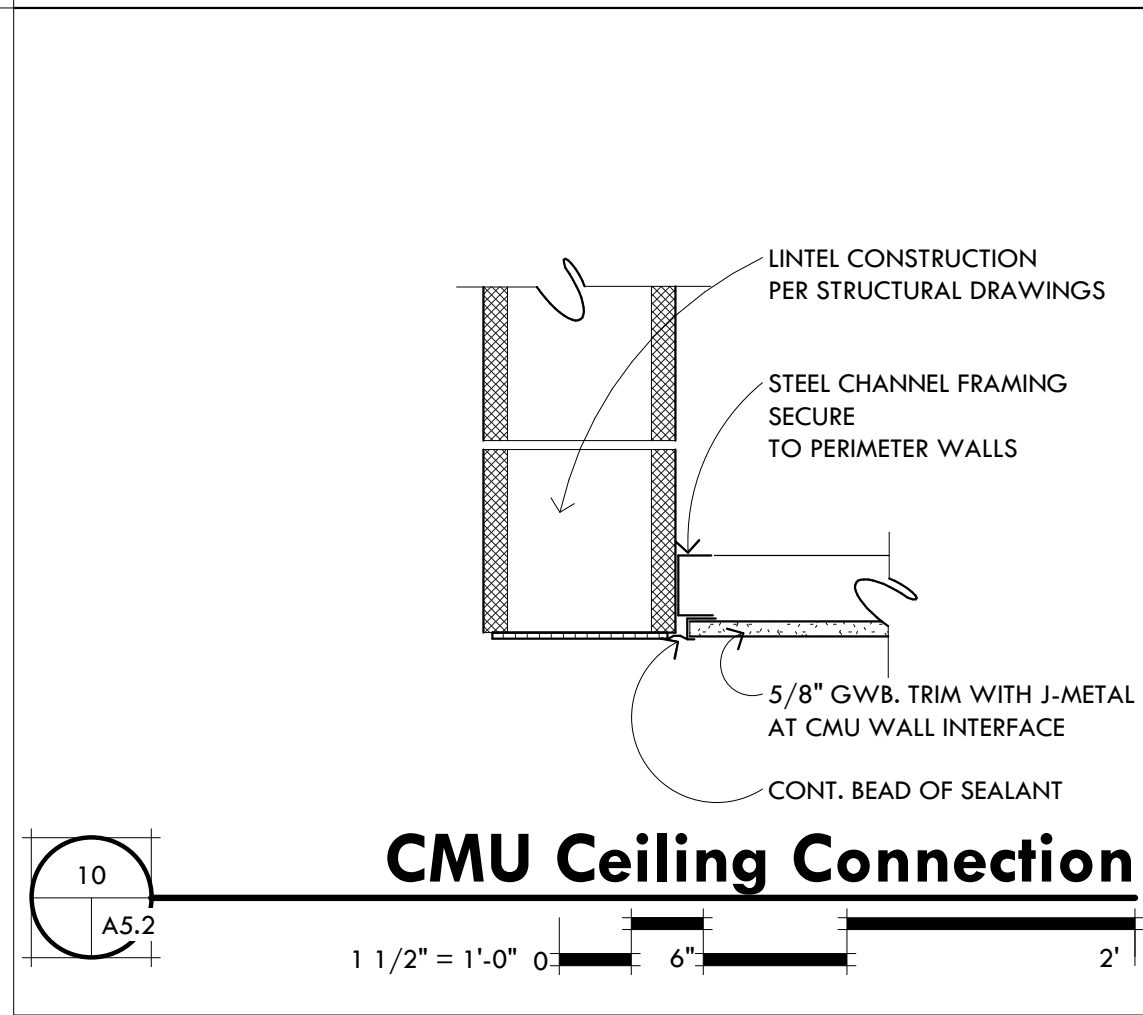
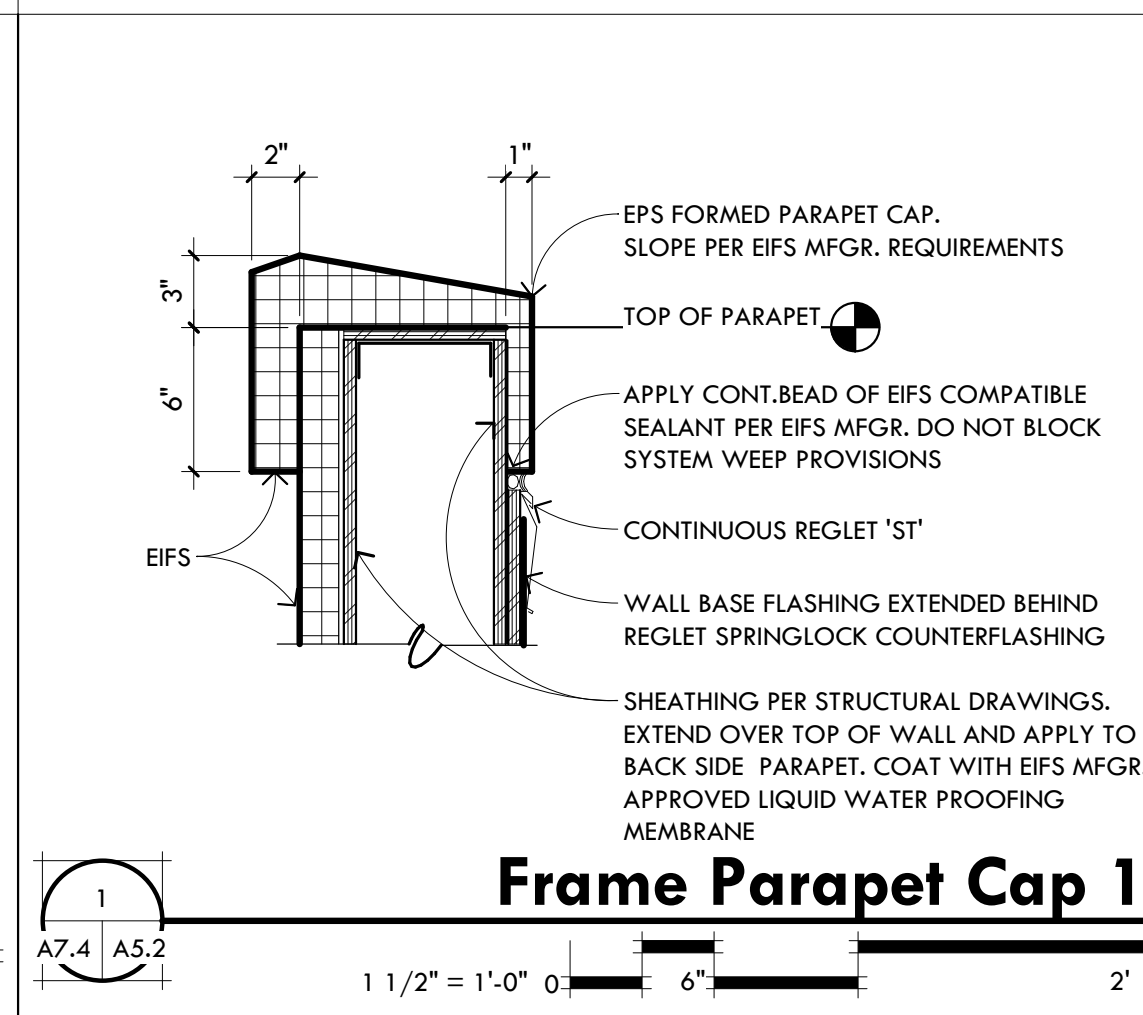
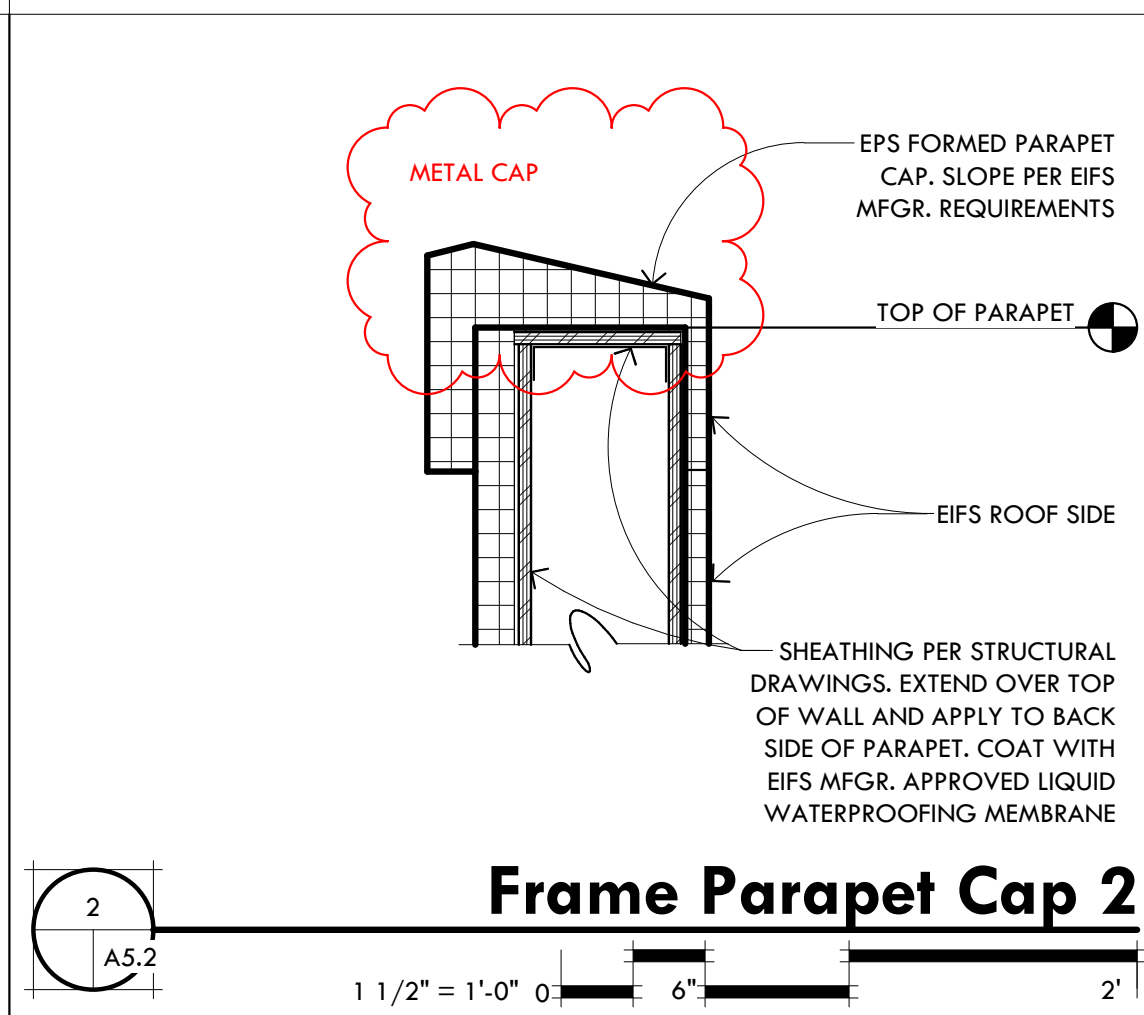
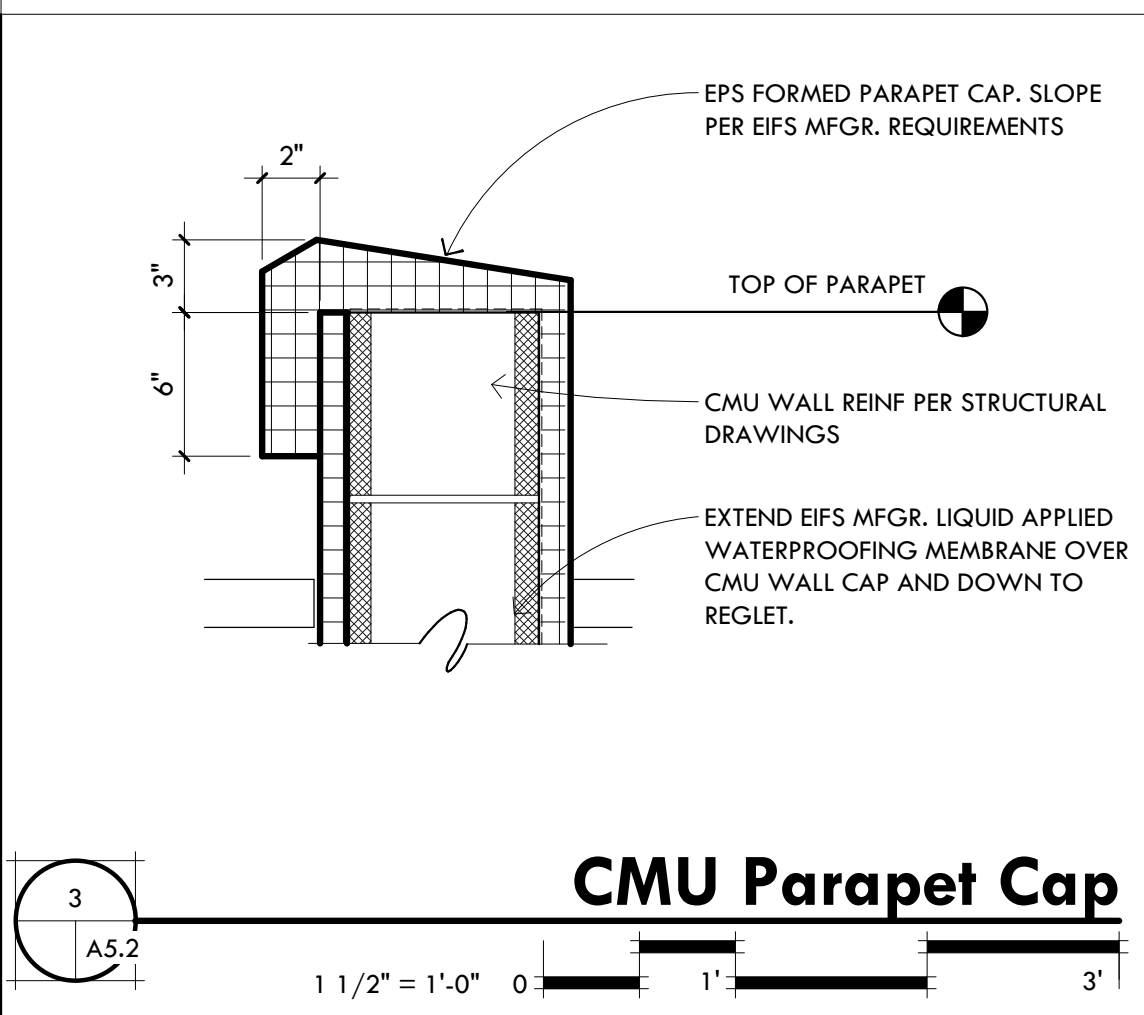
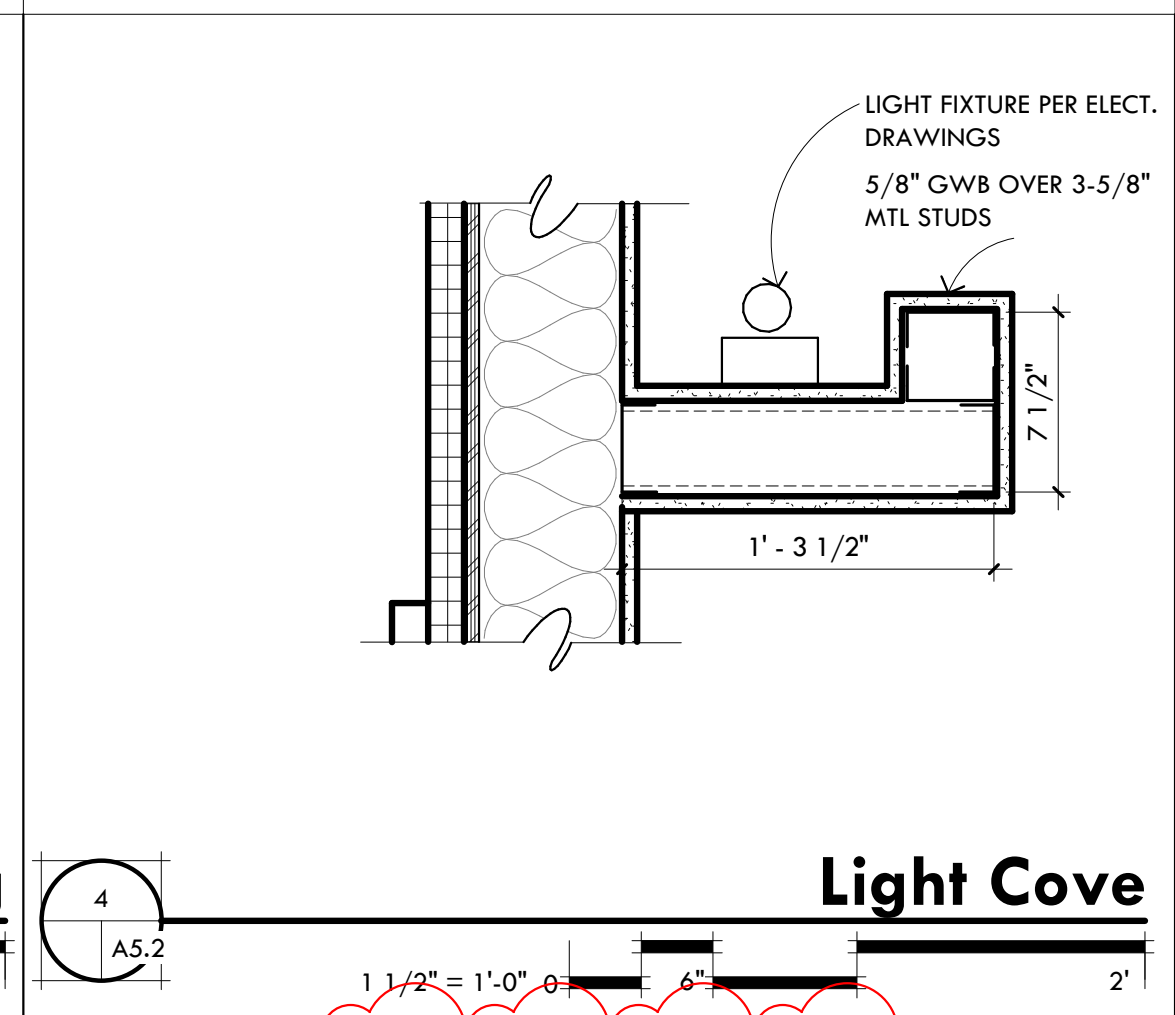
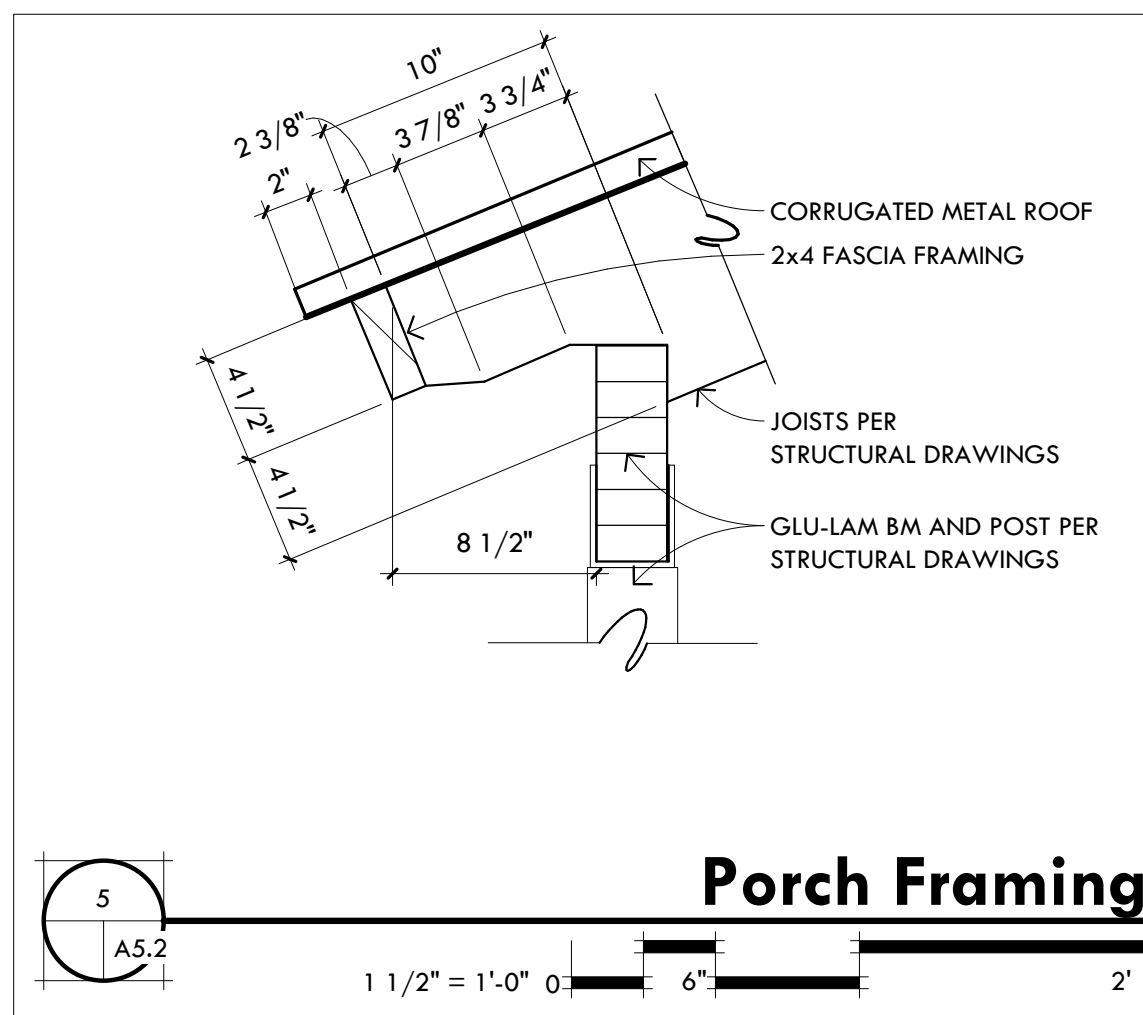
Keynotes



Roof Plan

SCALE: 1/8" = 1'-0" 0 8' 24'

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Intermediate Plans

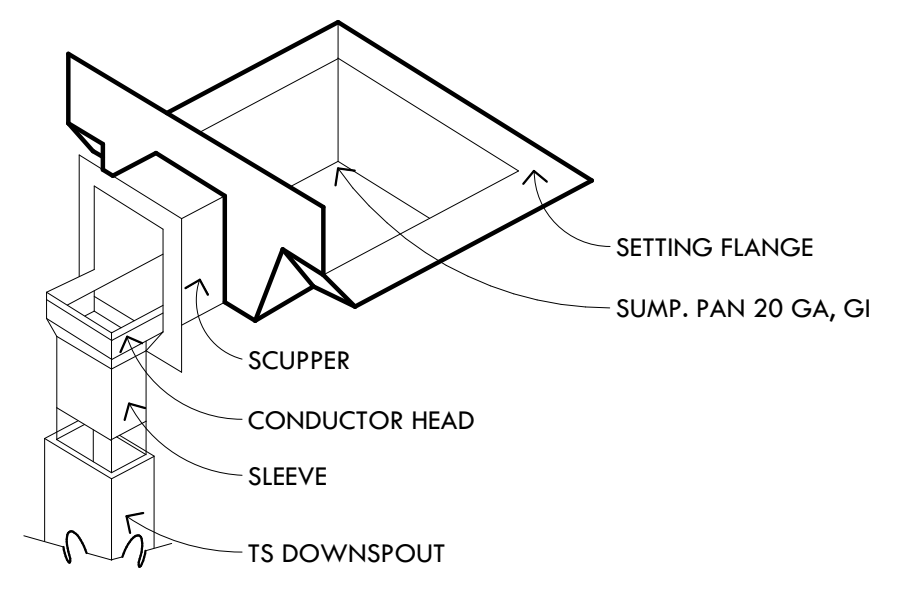
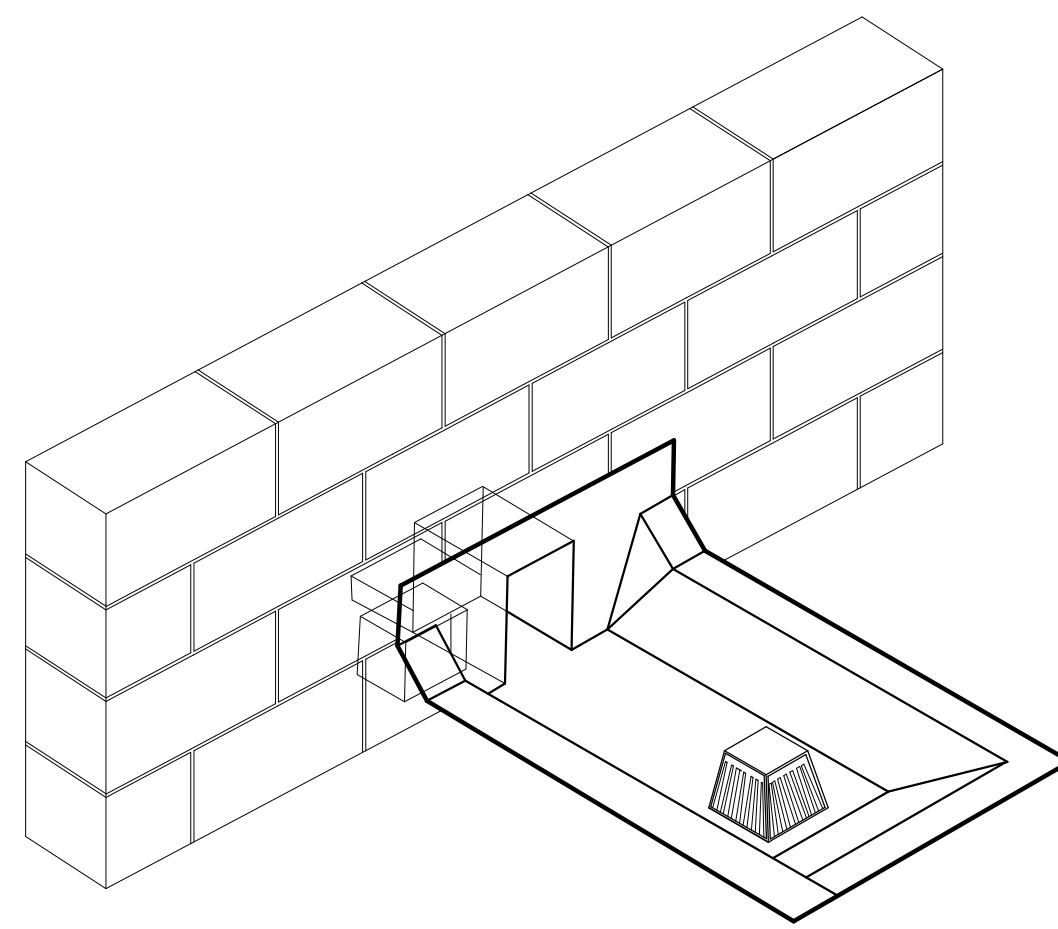
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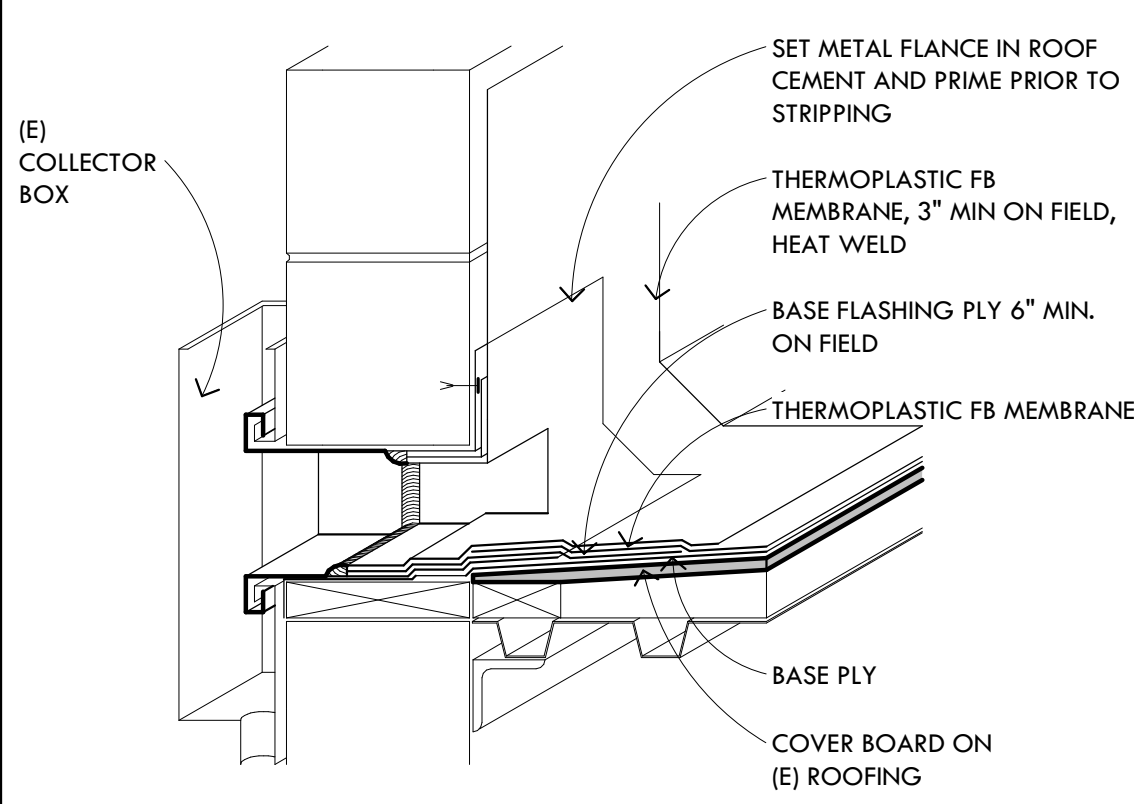
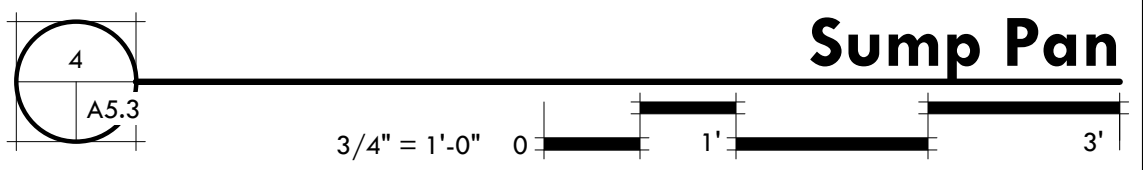
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Roof Details

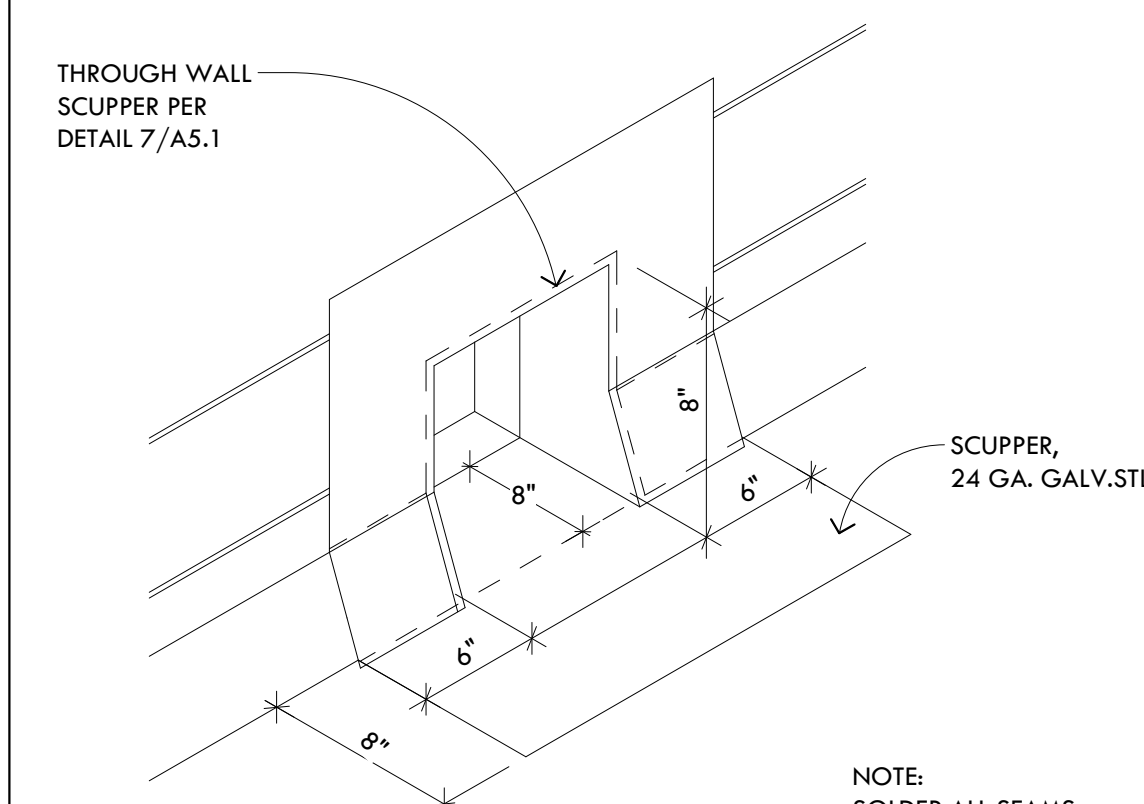
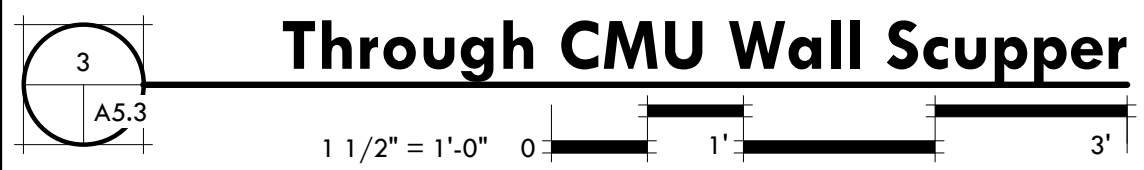
A52



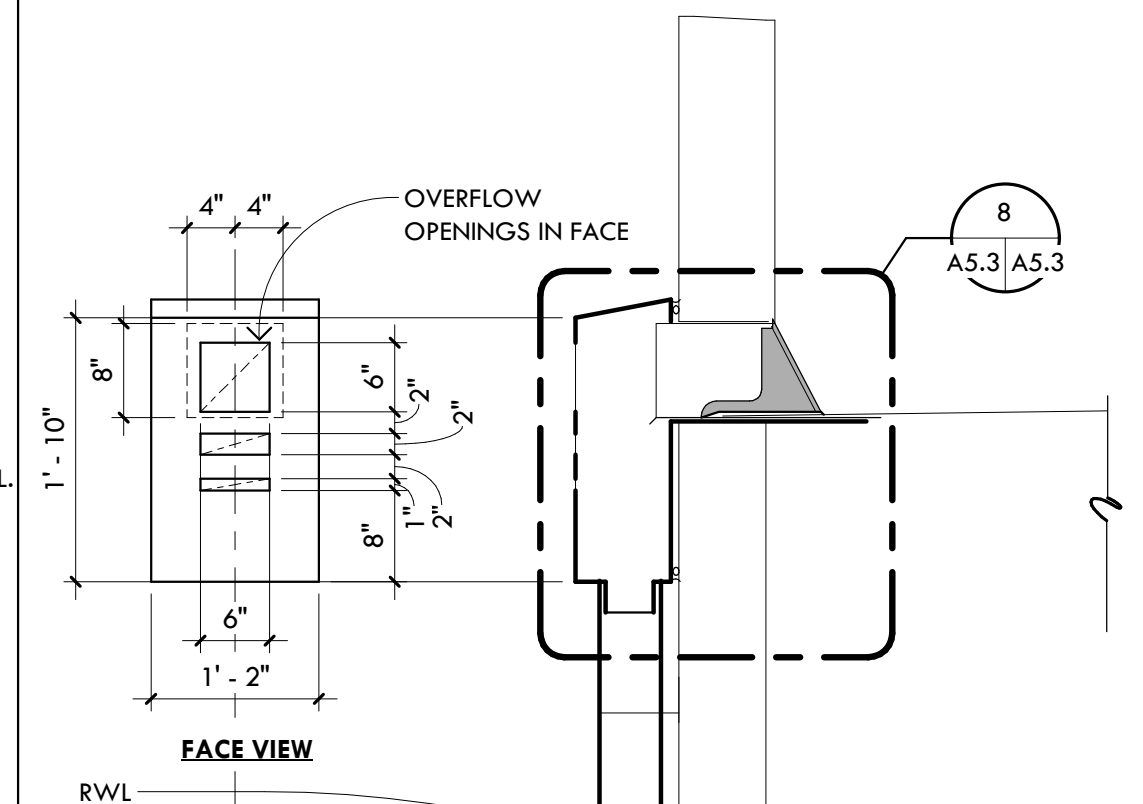
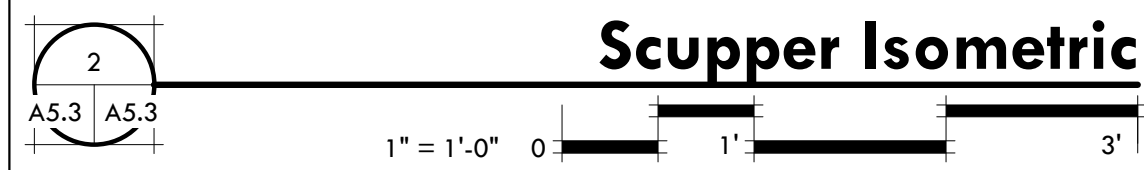
Conductor Head. Scupper. Sump Pan



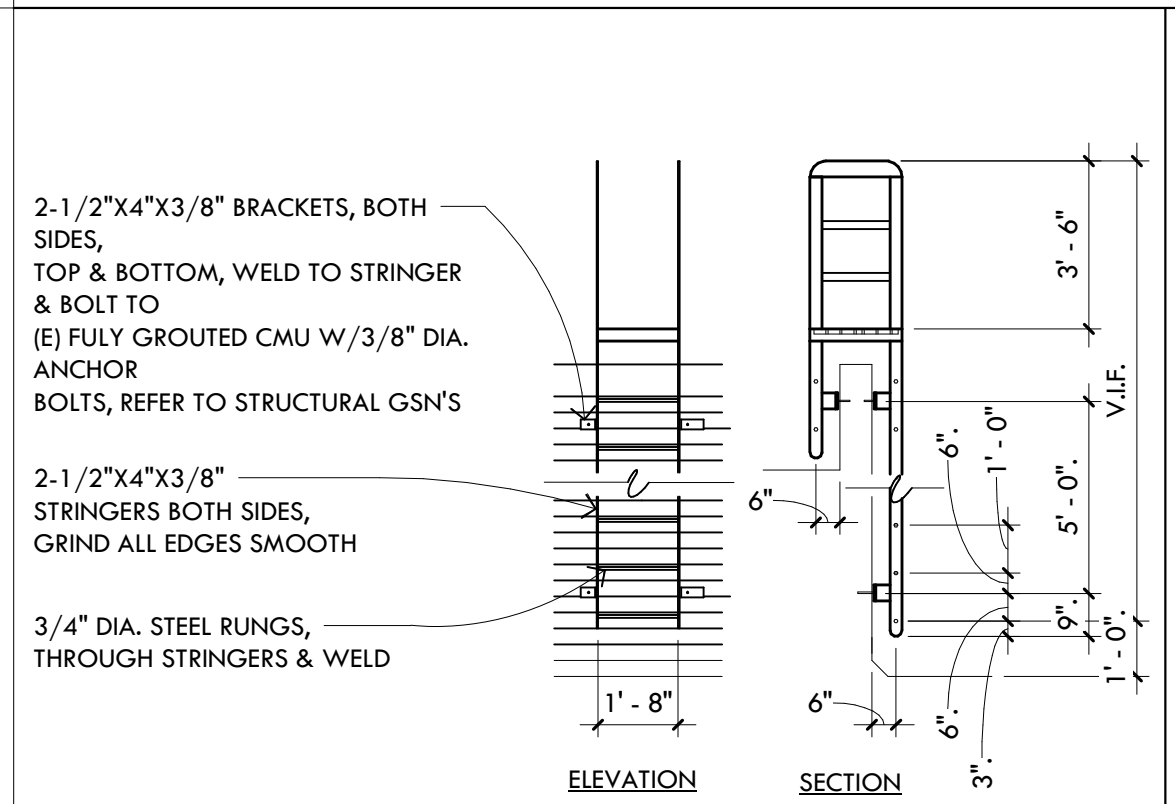
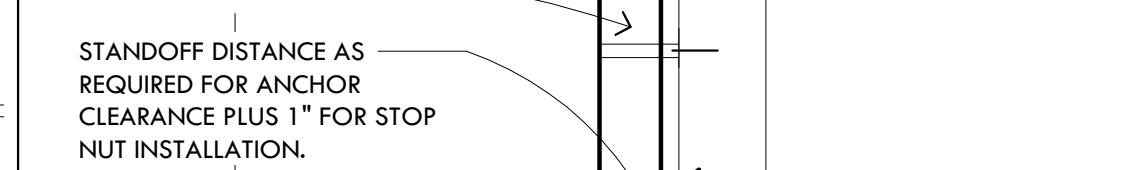
Through CMU Wall Scupper



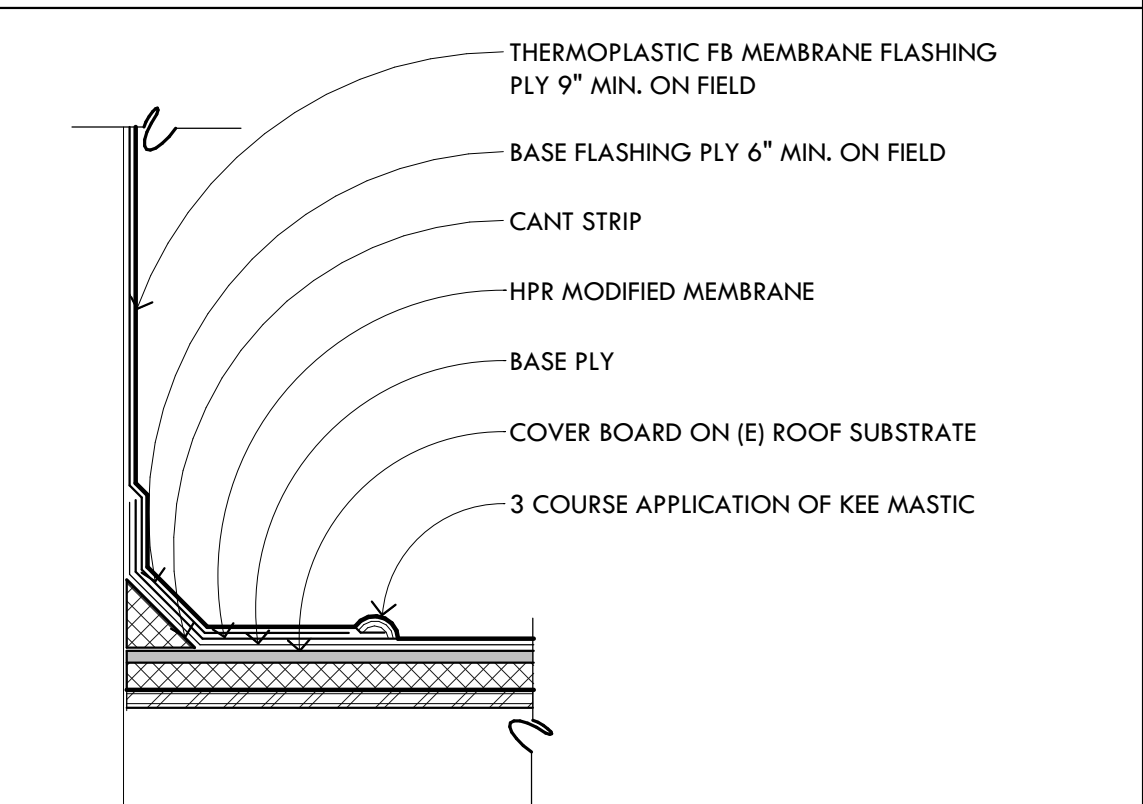
Scupper Isometric



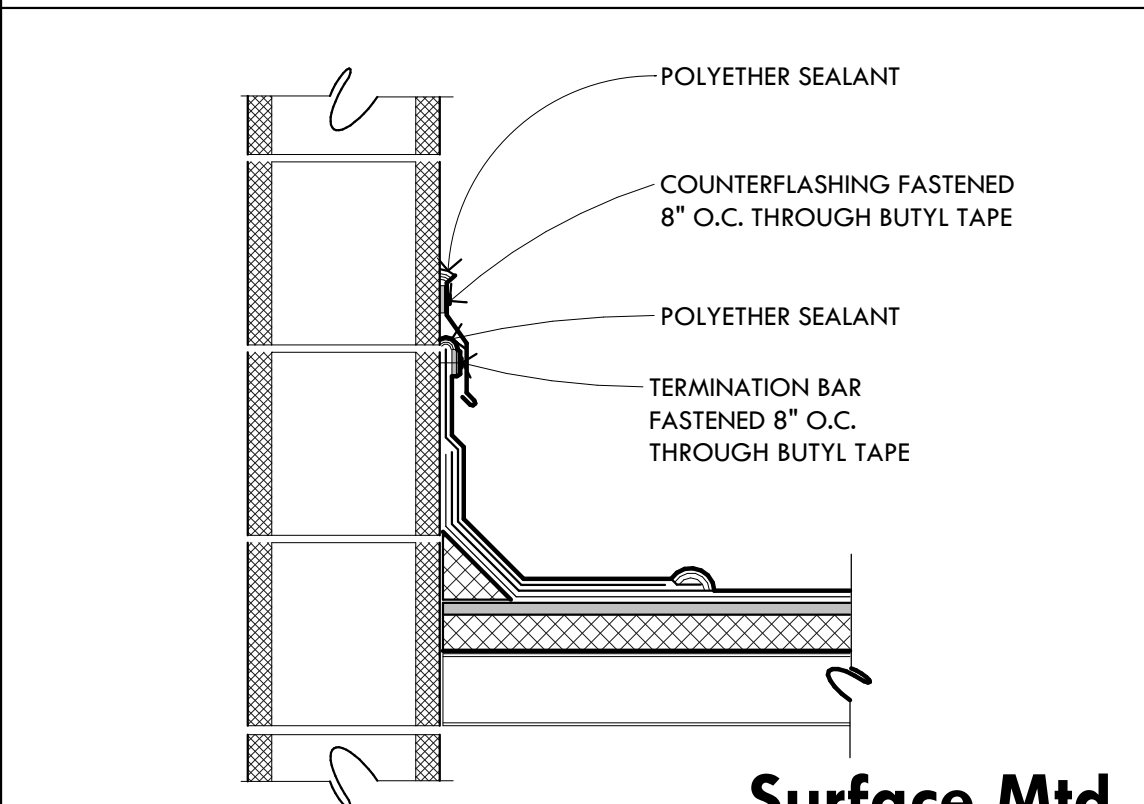
Downspout Section



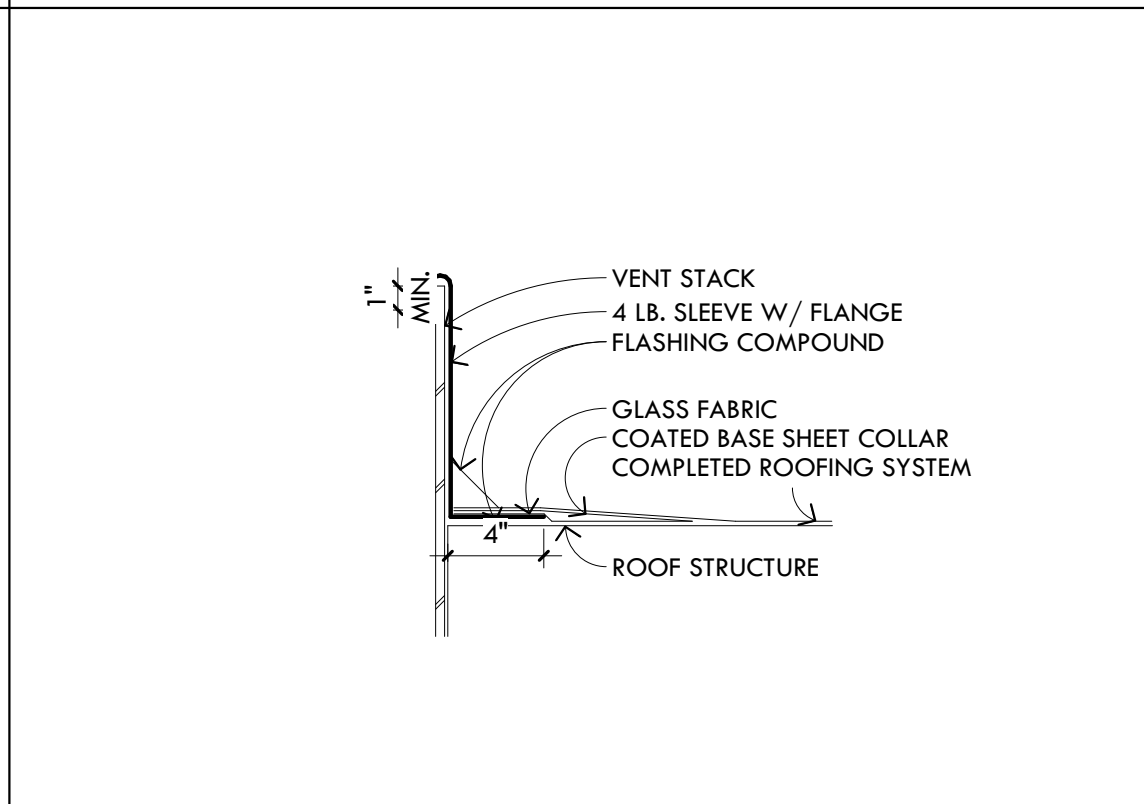
Roof Ladder



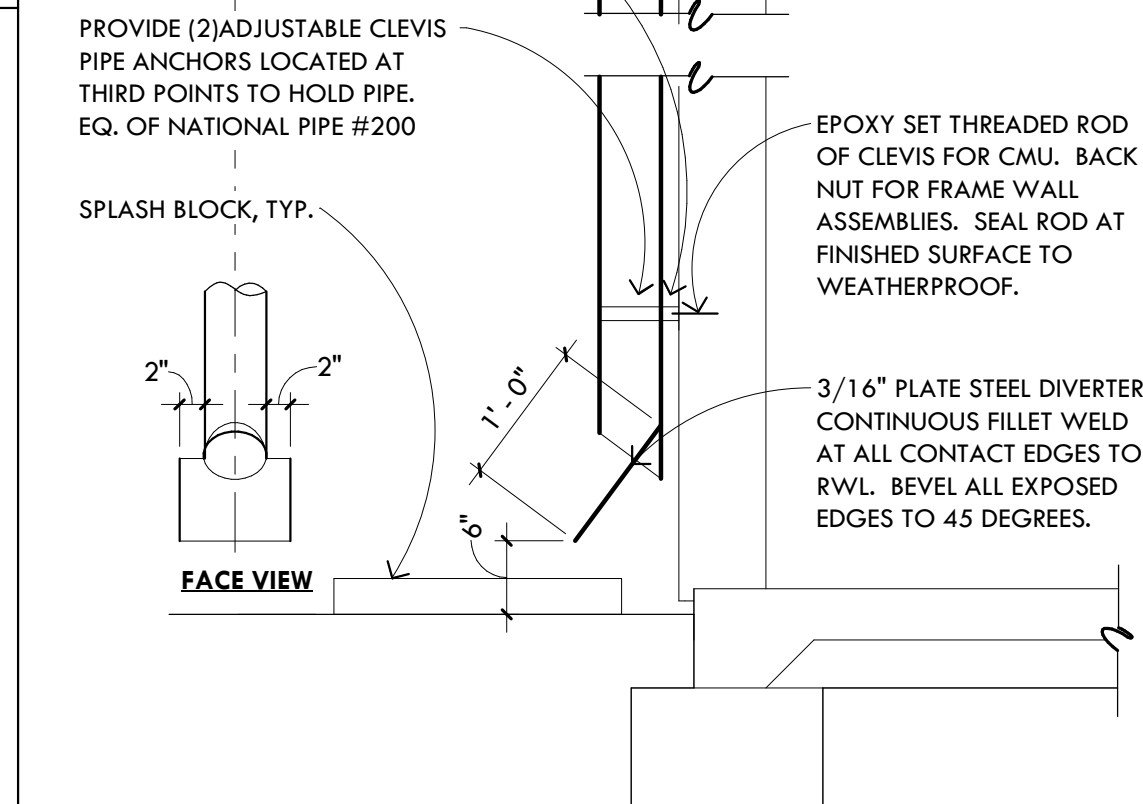
Cant Detail



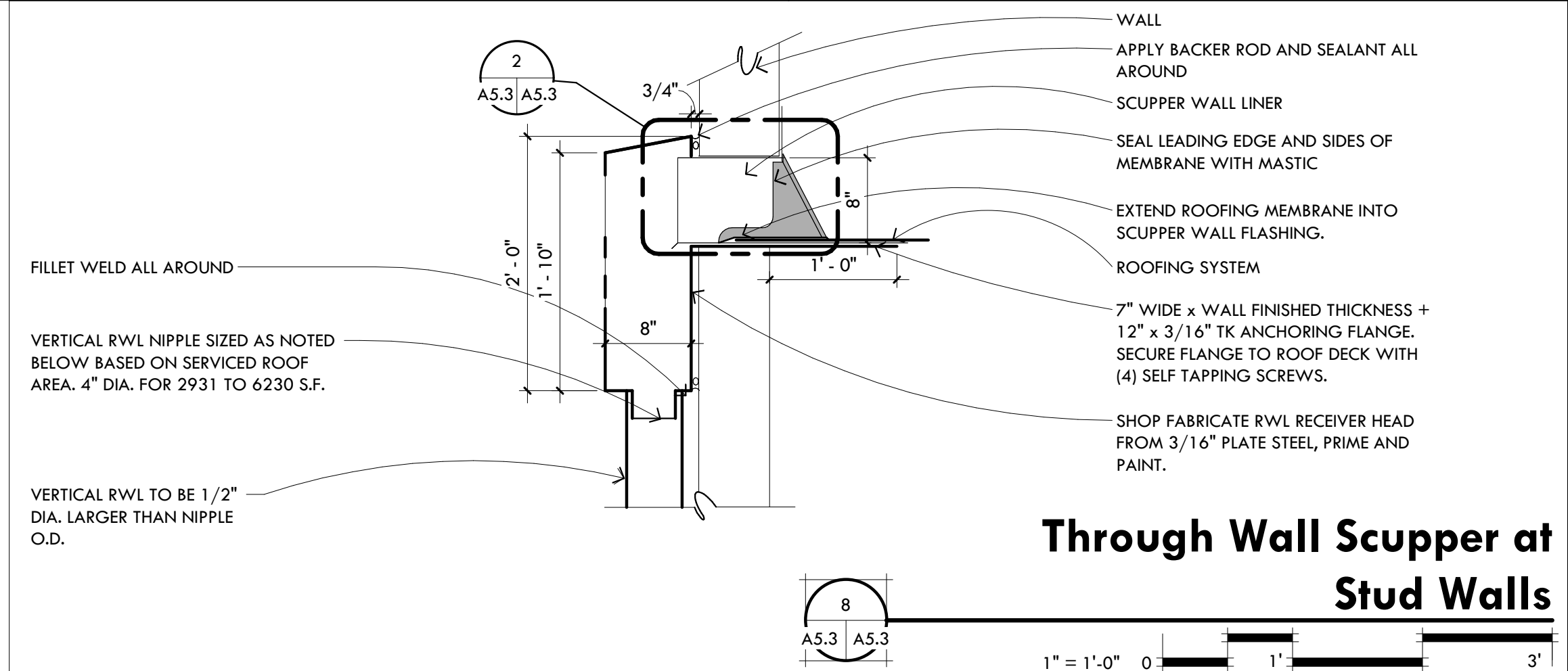
Surface Mtd. Counterflashing



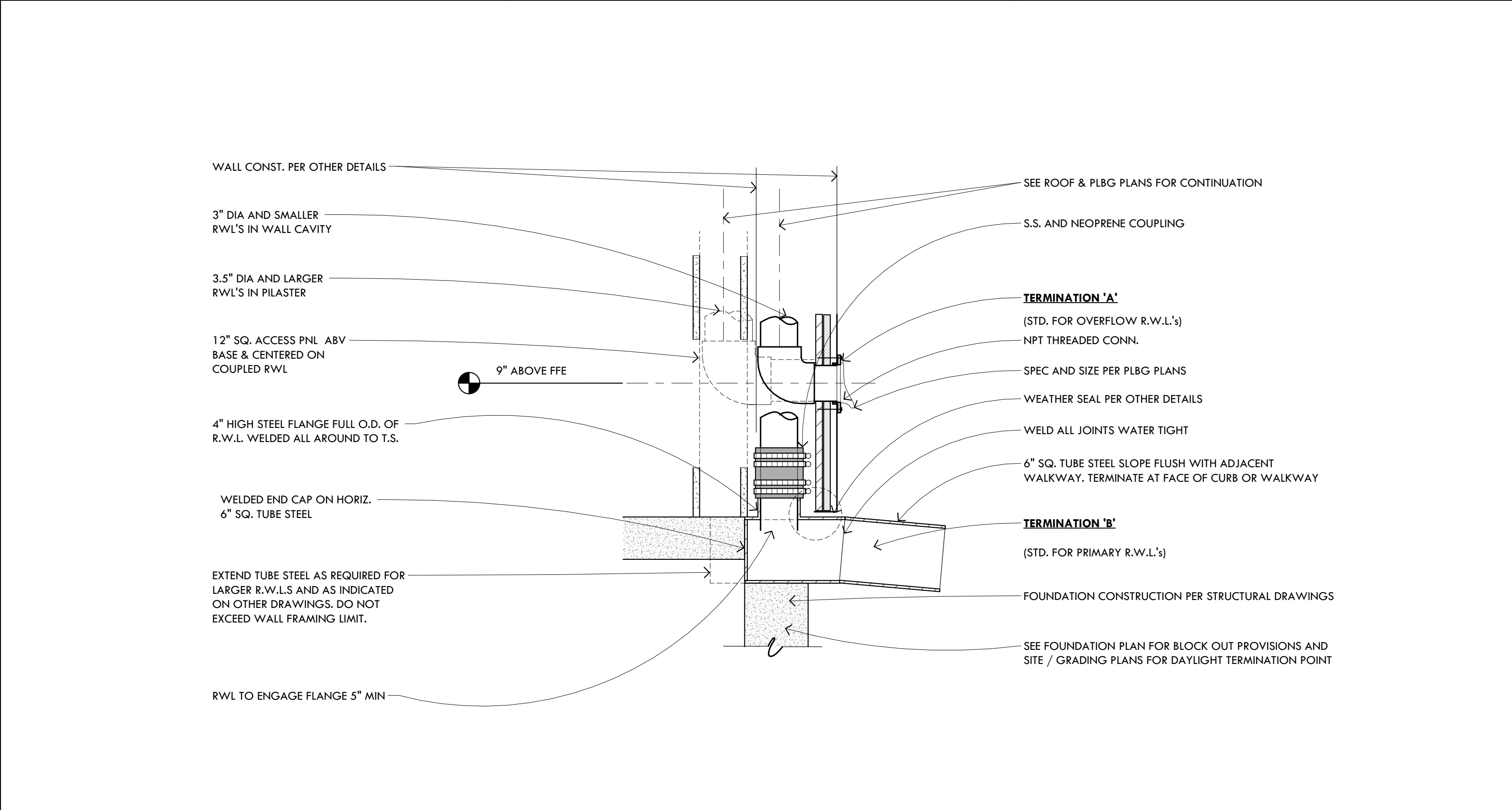
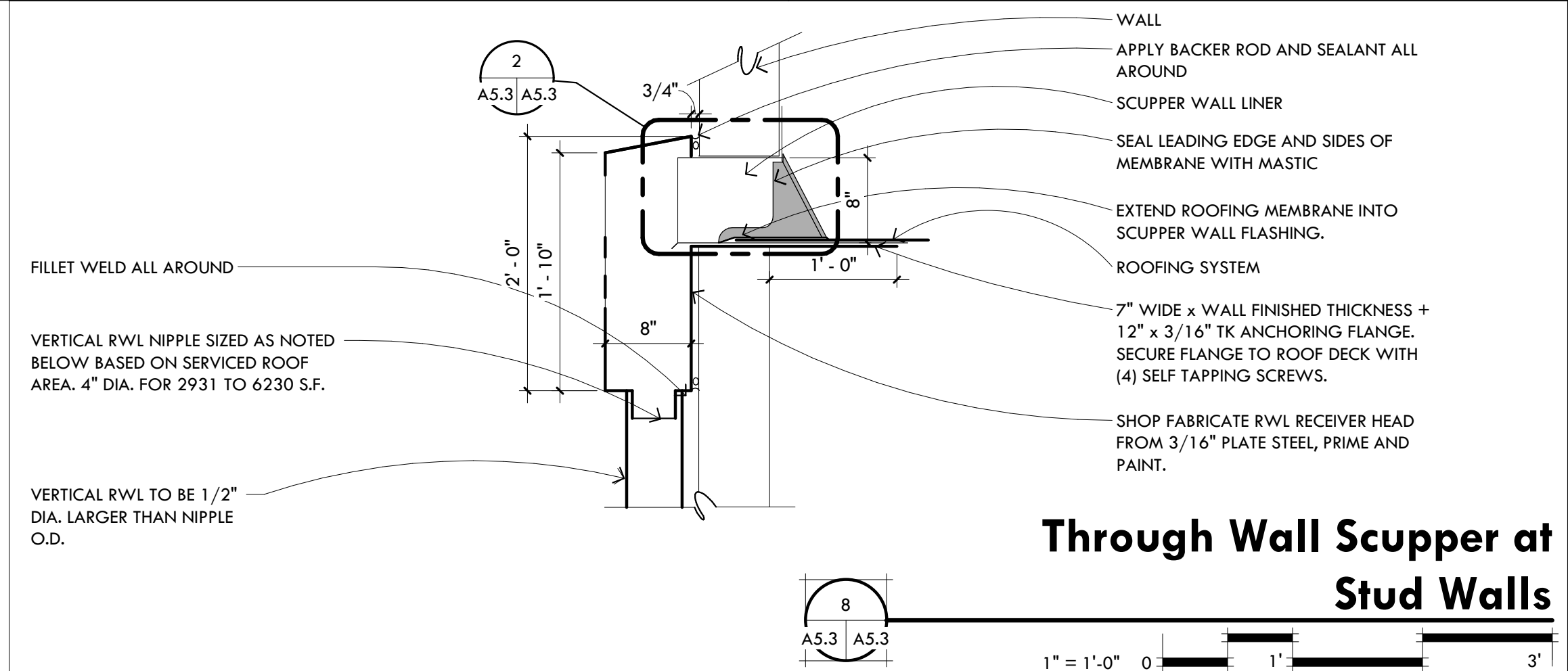
Typical Vent Thru Roof



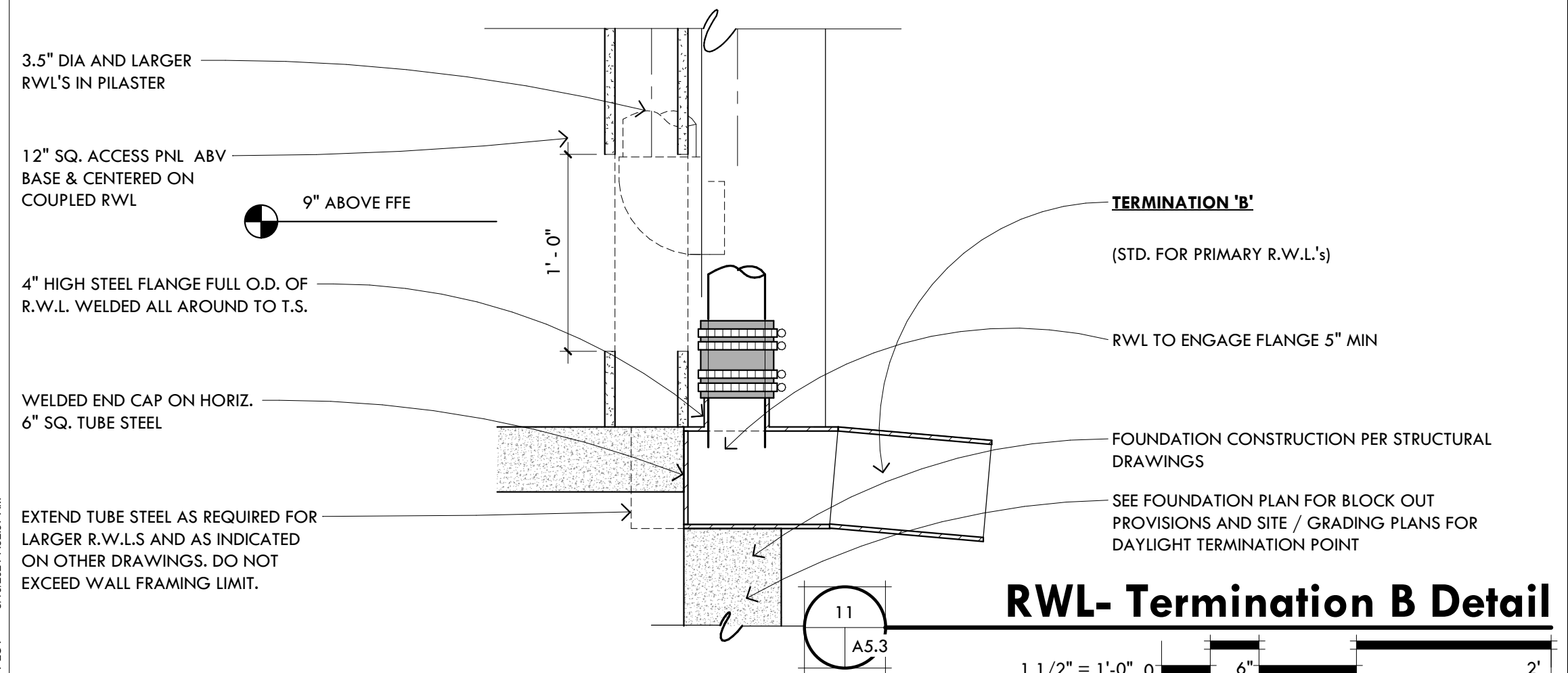
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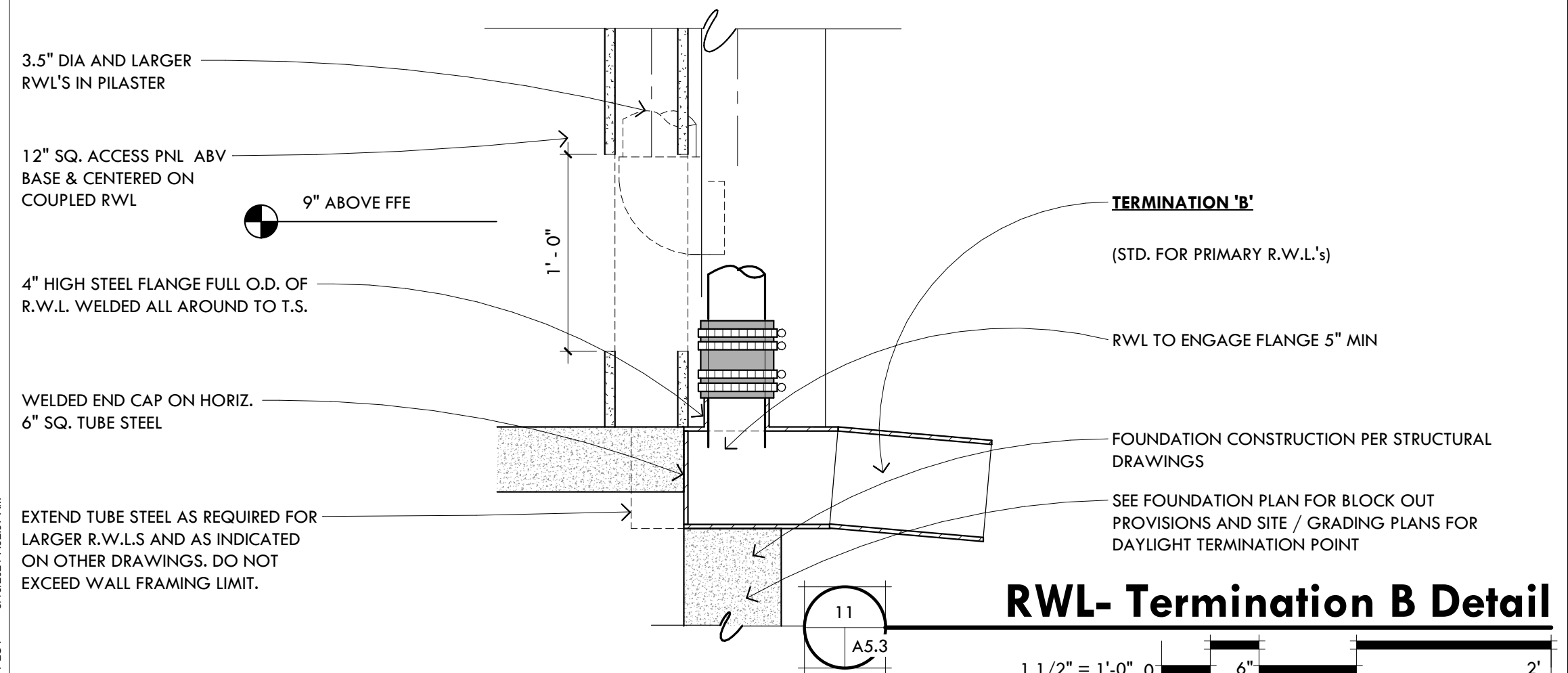
Through Wall Scupper at Stud Walls



RWL- Termination A Detail



RWL- Termination B Detail

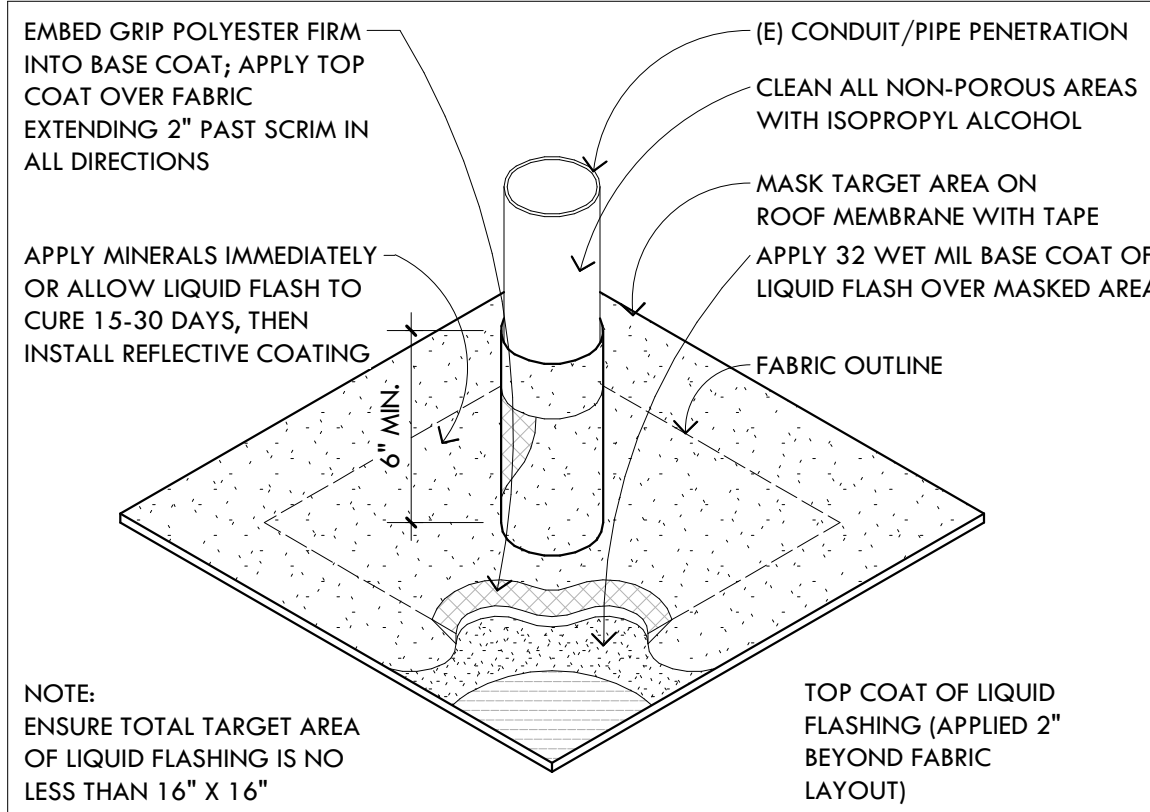


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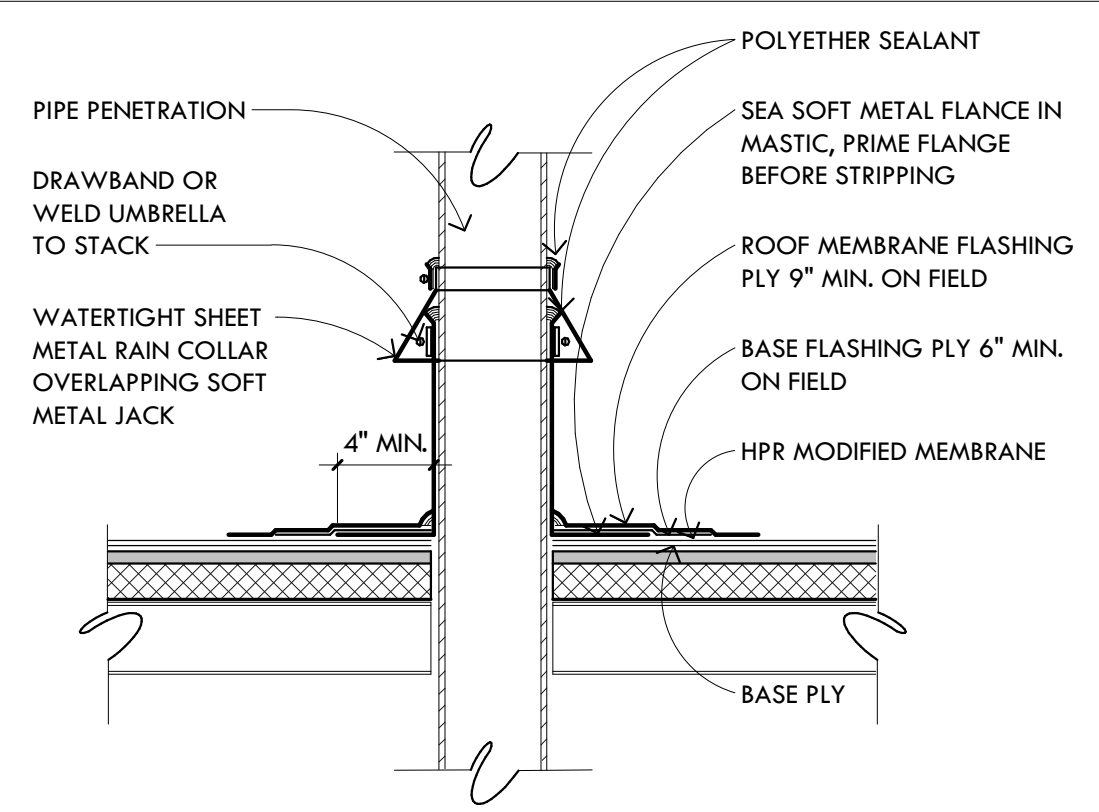
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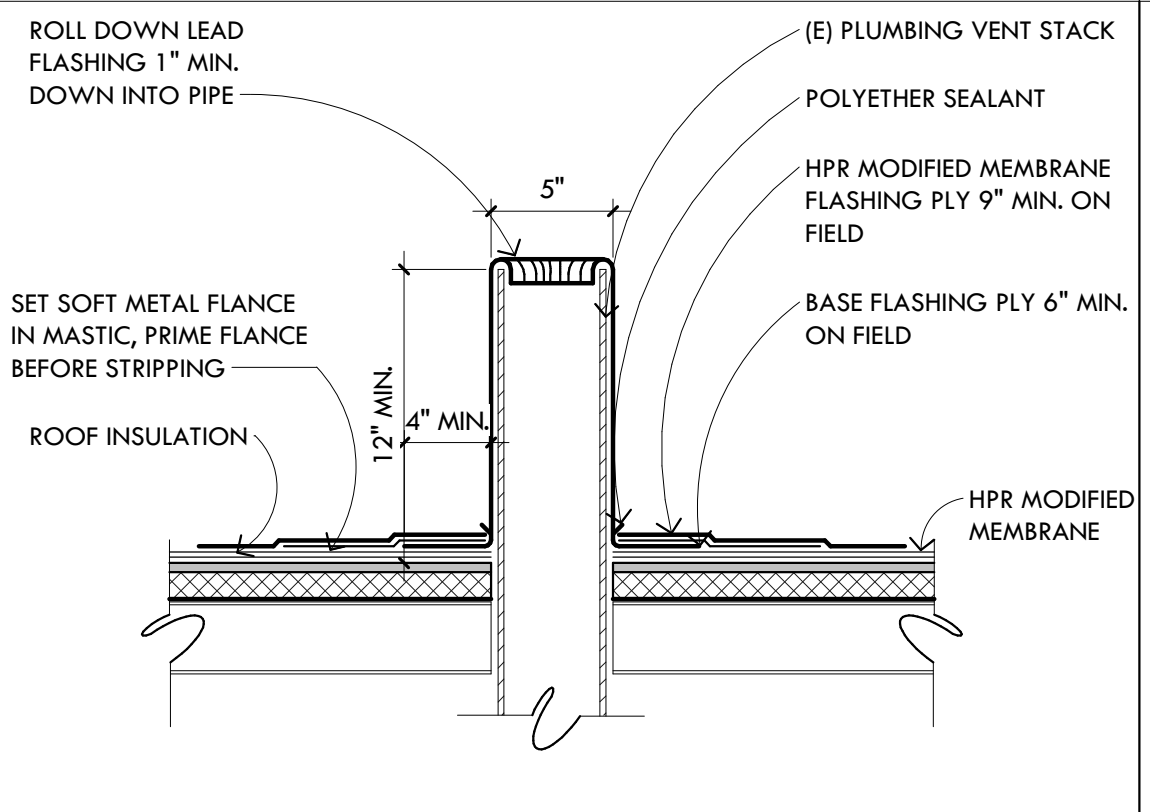
5
A5.4
1 1/2" = 1'-0" 0 6" 2'

Pipe Penetration Flashing



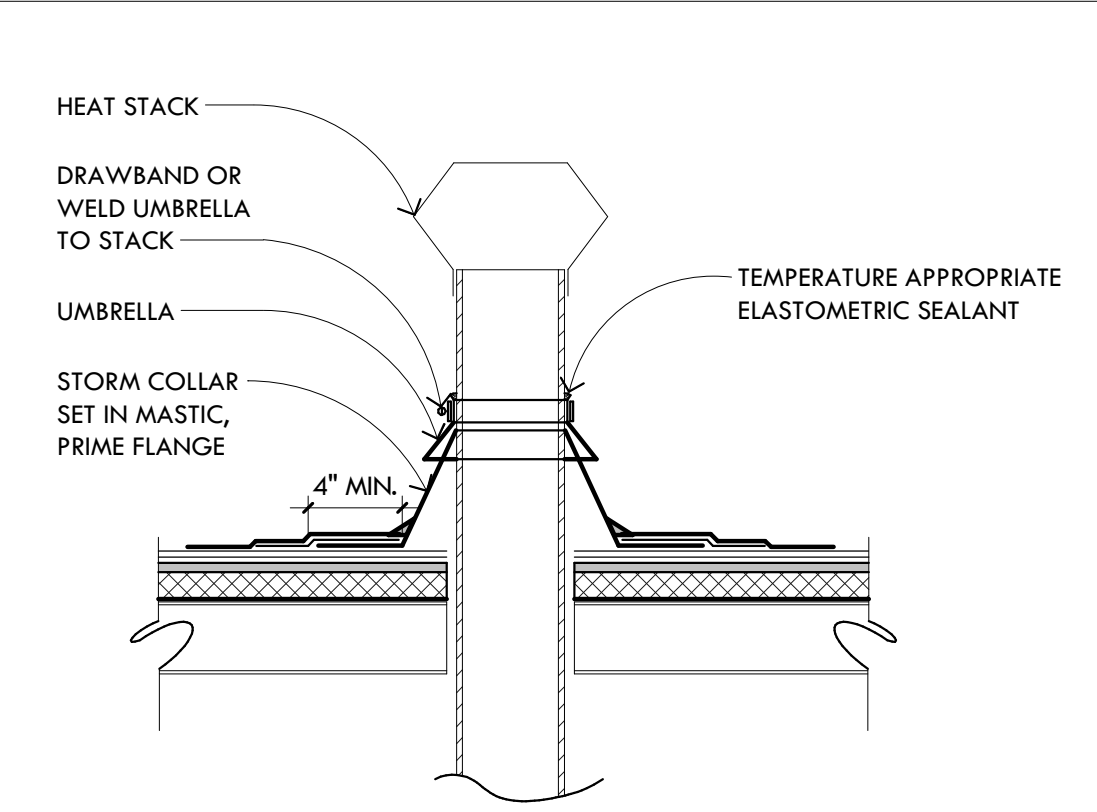
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A5.4
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Pipe Penetration w/ Collar



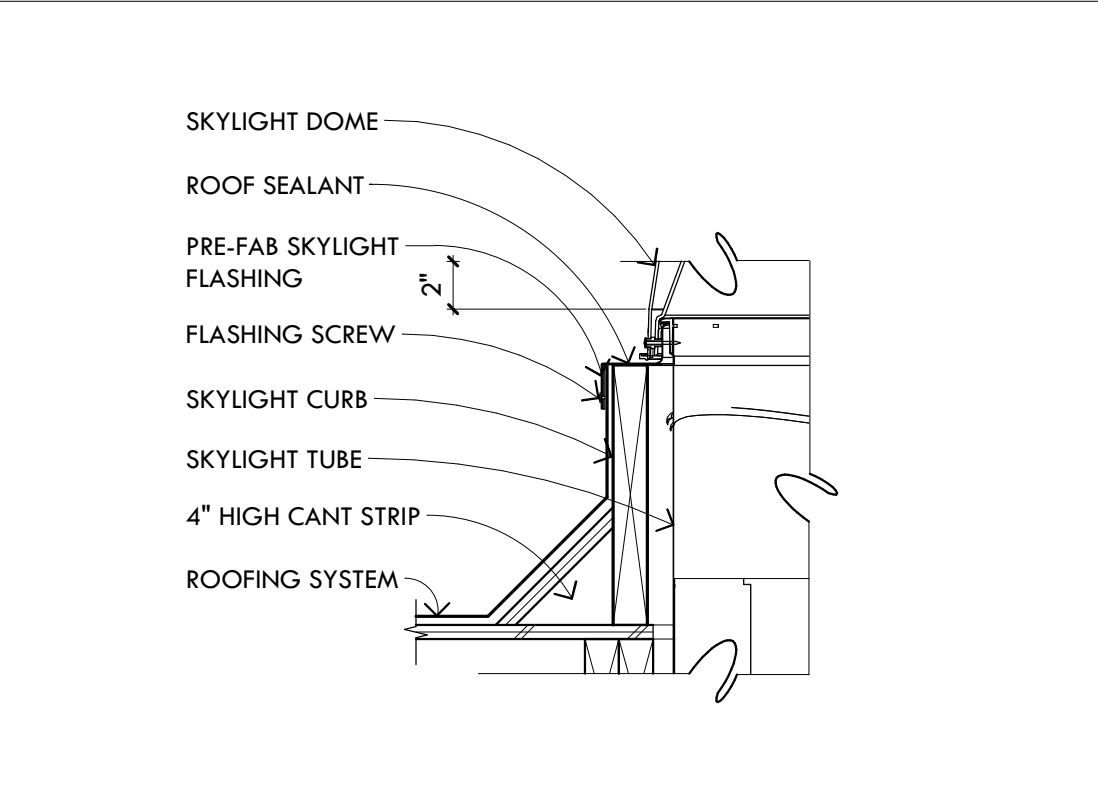
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Plumbing Stack



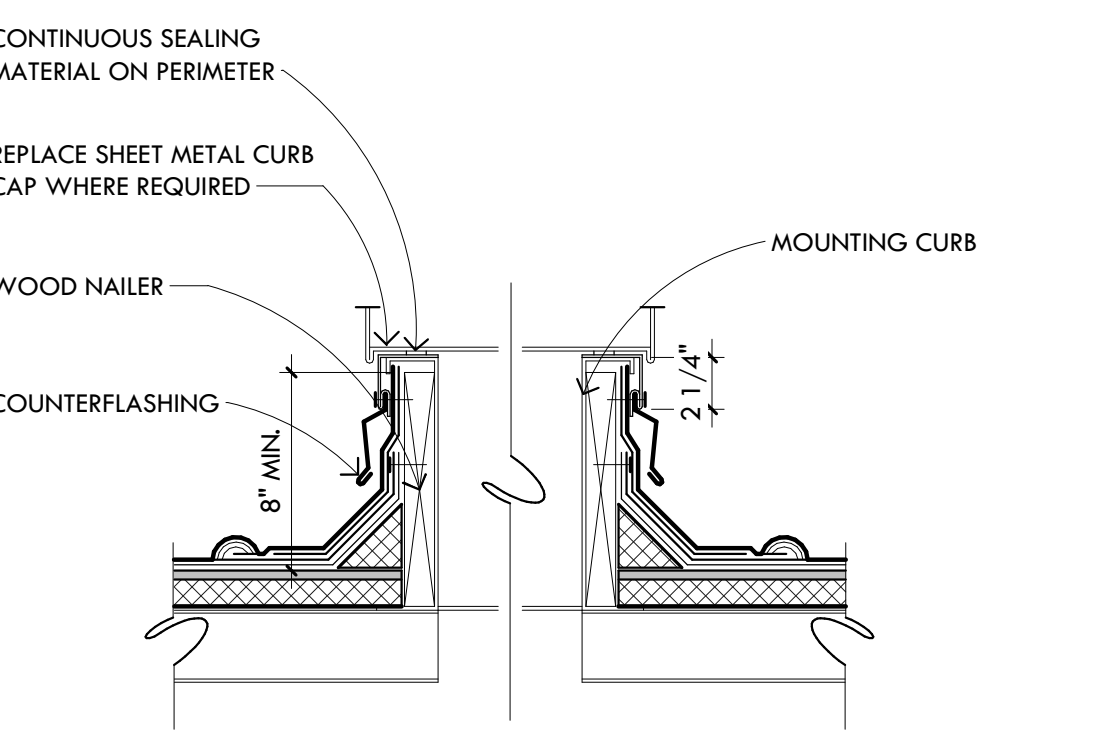
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Heat Stack



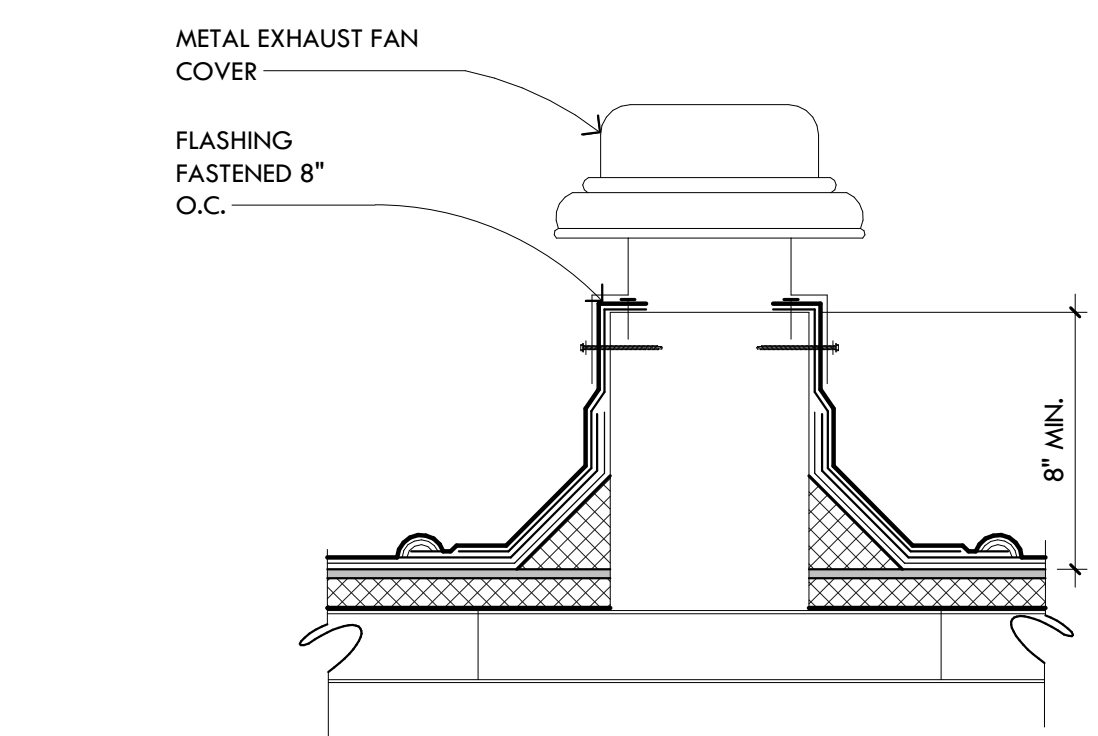
1
A5.1 A5.4
1 1/2" = 1'-0" 0 6" 2'

Tubular Daylight Device



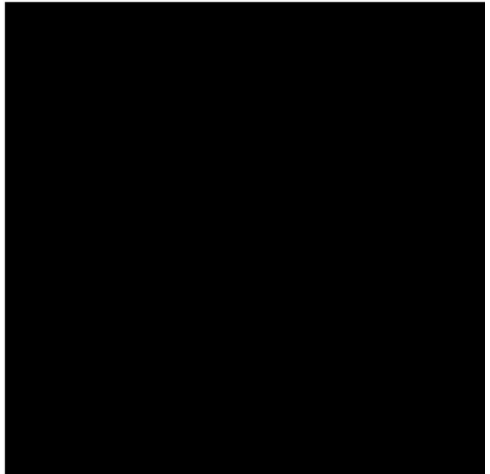
7
A5.4
1 1/2" = 1'-0" 0 6" 2'

Equipment Curb



6
A5.4
1 1/2" = 1'-0" 0 6" 2'

Exhaust Fan



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Intermediate Plans

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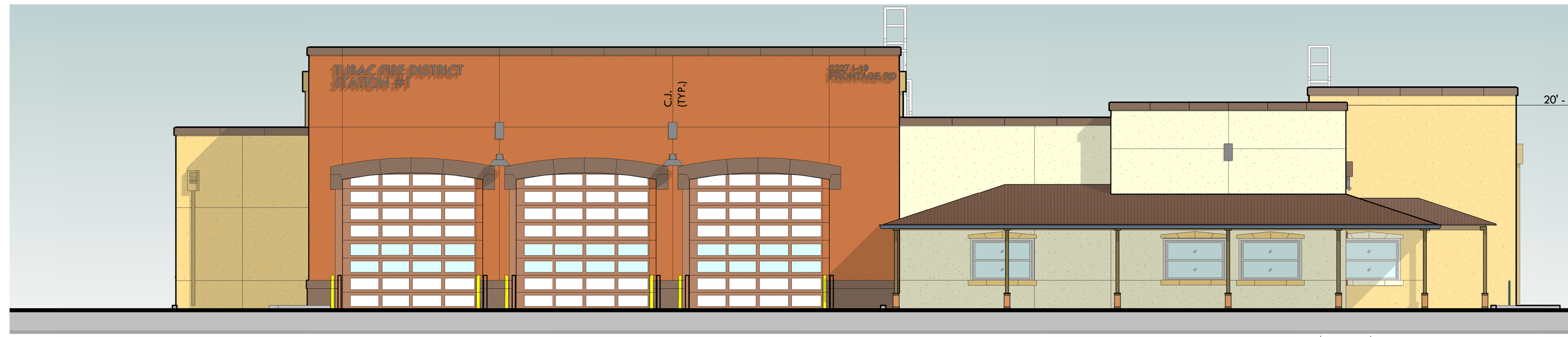
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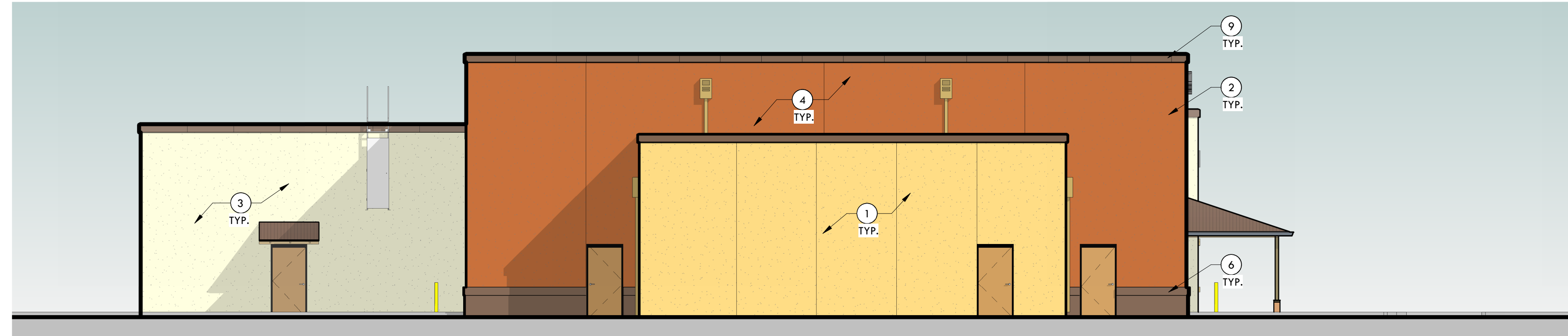
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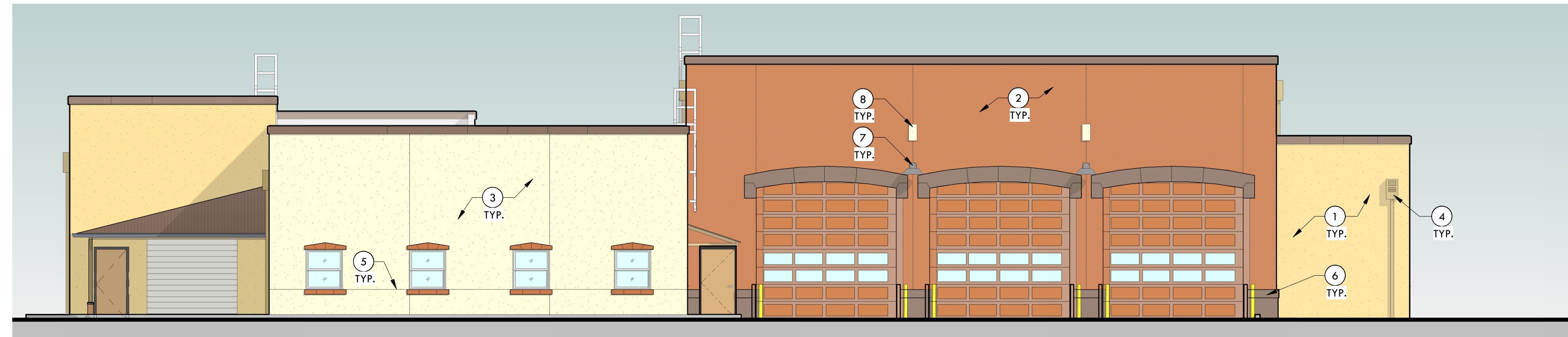
Roof Details
A5.4



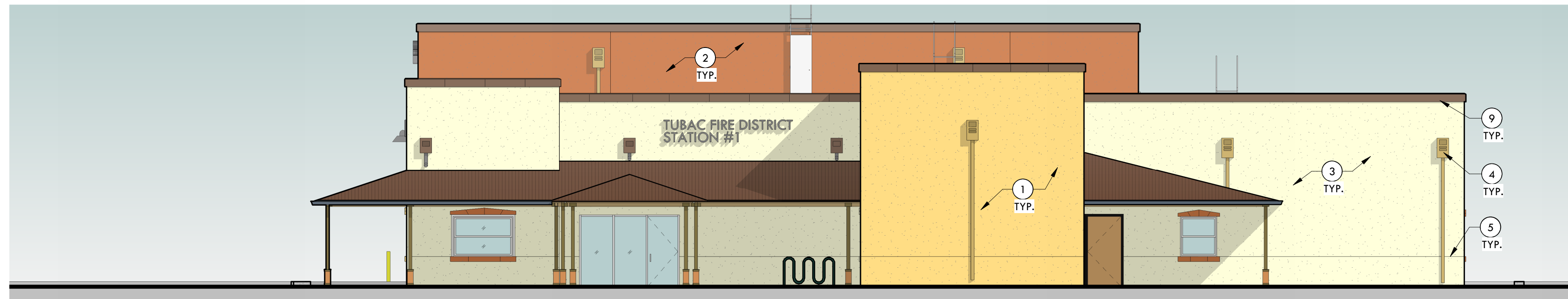
West



North



East



South

Finish schedule

- INTEGRAL COLOR EXTERIOR INSULATION FINISH SYSTEM (EIFS), PAINT ALL METAL
 COLOR TO MATCH:
 PT-1 DUNN EDWARDS, WILD MUSTANG DE3A161
 PT-2 DUNN EDWARDS, DOVER PLAINS DE6116
- INTEGRAL COLOR CONCRETE MASONRY UNITS (CMU)
 SPLIT FACE - SUPERLITE, ANTHEM RED
 GROUND FACE - SUPERLITE, SIERRA
- PAINT ALL EXPOSED STEEL AND EXPOSED METAL
 CANOPIES, STEEL TUBES, FENCES AND GATES, MECHANICAL SCREENS:
 METALLIC-COATED STEEL SHEET - CORTEN AZP RAW OR WHEATHERED STEEL
- STANDING-SEAM METAL ROOF PANELS
 METALLIC-COATED STEEL SHEET - CORTEN AZP RAW OR WHEATHERED STEEL
- EXTERIOR METAL SOFFIT PANELS
 METALLIC-COATED STEEL SHEET - APACHE RAWHIDE
- ALUMINUM FRAMES
 WINDOW MULLIONS, ALUMINUM DOORS, FRAMES, AND ADJACENT BREAK METAL
 TO BE STANDARD MANUFACTURER COLOR EQUAL TO ARCADIA MEDIUM BRONZE,
 AB-5.
- GLASS - SOLARCOOL - SOLARBRONZE, PPG IDEASCAPES

Paint Schedule

- PT-1 DUNN EDWARDS WILD MUSTANG DE161
 PT-2 DUNN EDWARDS DOVER PLAINS DE6116
 PT-3 WESTERN STATES METAL SPECKLED RUST
 PAINT TO MATCH

Keynotes

- EXTERIOR INSULATION FINISH SYSTEM (EIFS), COLOR- PAINT PT-1
- EXTERIOR INSULATION FINISH SYSTEM (EIFS), COLOR- PAINT PT- 2
- EXTERIOR INSULATION FINISH SYSTEM (EIFS), COLOR- PAINT PT- 3
- RAIN WATER LEADERS (PT-5)
- REVEAL
- WAINSCOT
- LIGHT FIXTURE, REFER TO ELECTRICAL DWGS
- SURFACE RELIEF
- MTL. COPING



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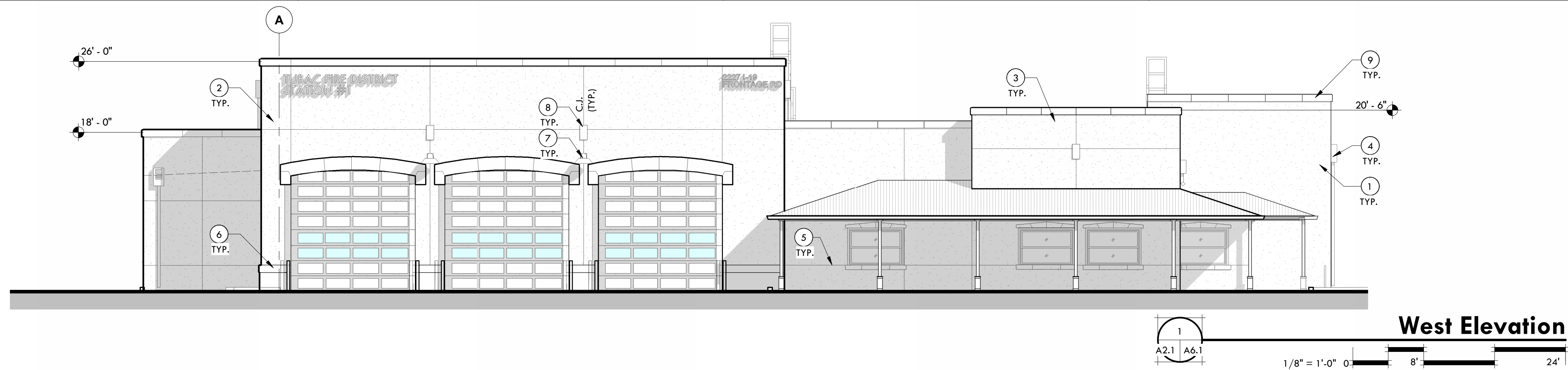
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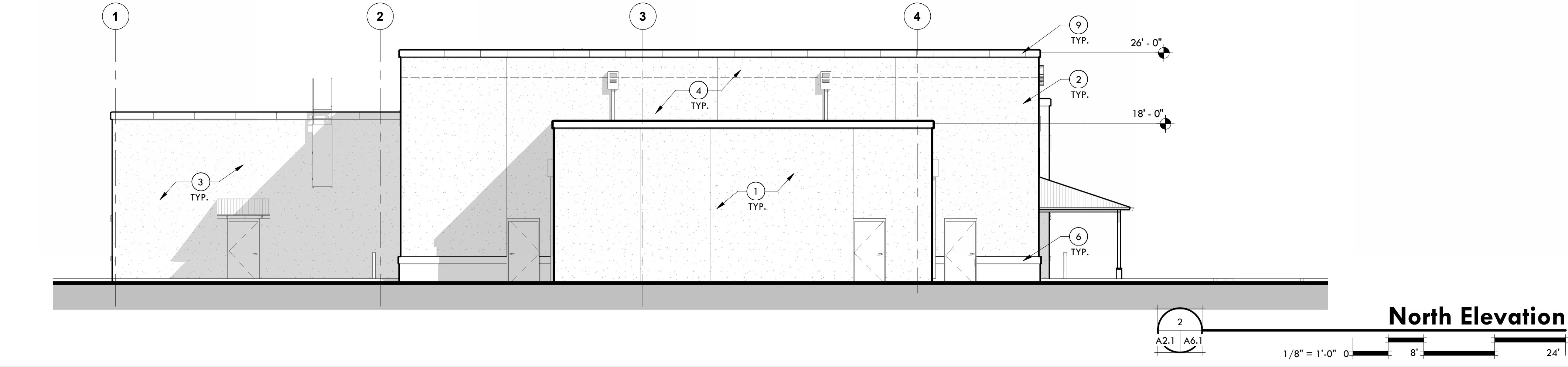
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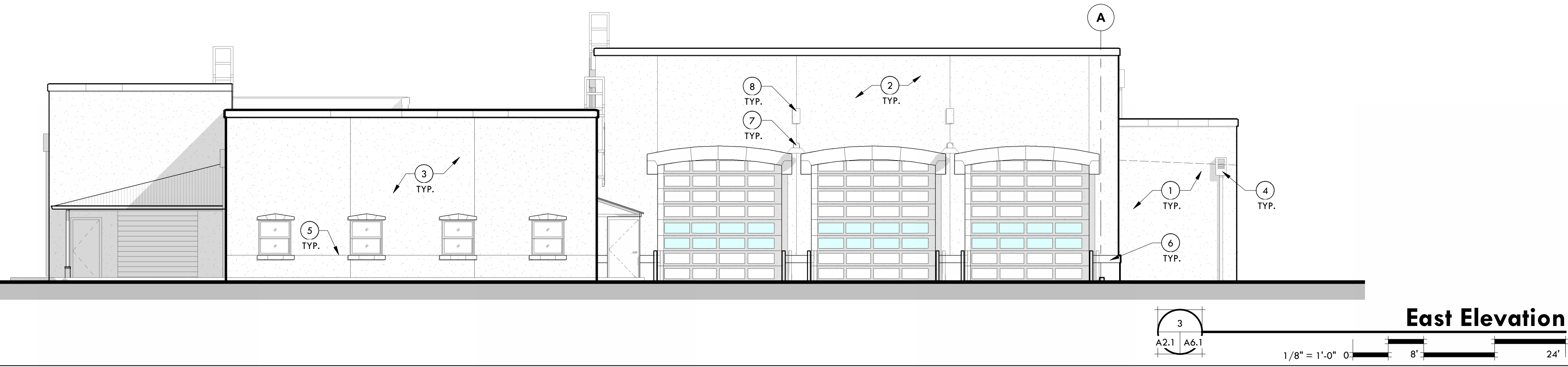
Colored
 Elevations
A6.0



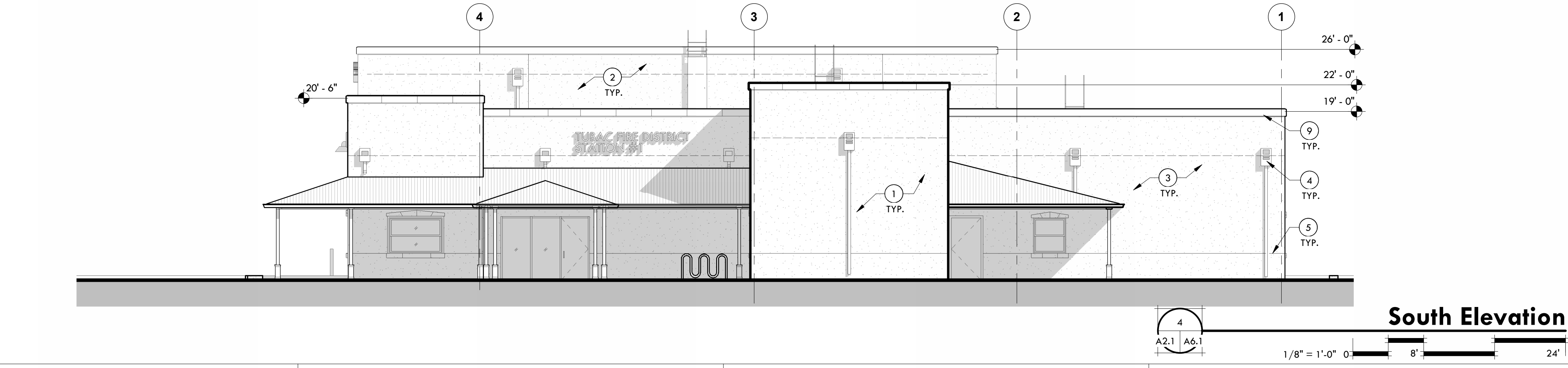
West Elevation



North Elevation



East Elevation



South Elevation

Finish schedule

1. INTEGRAL COLOR EXTERIOR INSULATION FINISH SYSTEM (EIFS), PAINT ALL METAL
 COLOR TO MATCH:
 PT-1 DUNN EDWARDS, WILD MUSTANG DE3A1 61
 PT-2 DUNN EDWARDS, DOVER PLAINS DE611 6
2. INTEGRAL COLOR CONCRETE MASONRY UNITS (CMU)
 SPLIT FACE - SUPERLITE, ANTHEM RED
 GROUND FACE - SUPERLITE, SIERRA
3. PAINT ALL EXPOSED STEEL AND EXPOSED METAL
 CANOPIES, STEEL TUBES, FENCES AND GATES, MECHANICAL SCREENS:
 METALLIC-COATED STEEL SHEET - CORTEN AZP RAW OR WHEATHERED STEEL
4. STANDING-SEAM METAL ROOF PANELS
 METALLIC-COATED STEEL SHEET - CORTEN AZP RAW OR WHEATHERED STEEL
5. EXTERIOR METAL SOFFIT PANELS
 METALLIC-COATED STEEL SHEET - APACHE RAWHIDE
6. ALUMINUM FRAMES
 WINDOW MULLIONS, ALUMINUM DOORS, FRAMES, AND ADJACENT BREAK METAL
 TO BE STANDARD MANUFACTURER COLOR EQUAL TO ARCADIA MEDIUM BRONZE,
 AB-5.
7. GLASS - SOLARCOOL - SOLARBRONZE, PPG IDEASCAPES

Paint Schedule

- PT-1 DUNN EDWARDS WILD MUSTANG DE1 61
 PT-2 DUNN EDWARDS DOVER PLAINS DE611 6
 PT-3 WESTERN STATES METAL SPECKLED RUST
 PAINT TO MATCH

Keynotes

- ① EXTERIOR INSULATION FINISH SYSTEM (EIFS), COLOR- PAINT PT-1
- ② EXTERIOR INSULATION FINISH SYSTEM (EIFS), COLOR- PAINT PT- 2
- ③ EXTERIOR INSULATION FINISH SYSTEM (EIFS), COLOR- PAINT PT- 3
- ④ RAIN WATER LEADERS (PT-5)
- ⑤ REVEAL
- ⑥ WAINSCOT
- ⑦ LIGHT FIXTURE, REFER TO ELECTRICAL DWGS
- ⑧ SURFACE RELIEF
- ⑨ MTL. COPING

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 tucson arizona 85719
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Tubac Fire Station #1
 2227 I-19 Frontage Rd., Tubac, AZ 85646
 Intermediate Plans

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PROJECT NO:
23.21.00

DATE:
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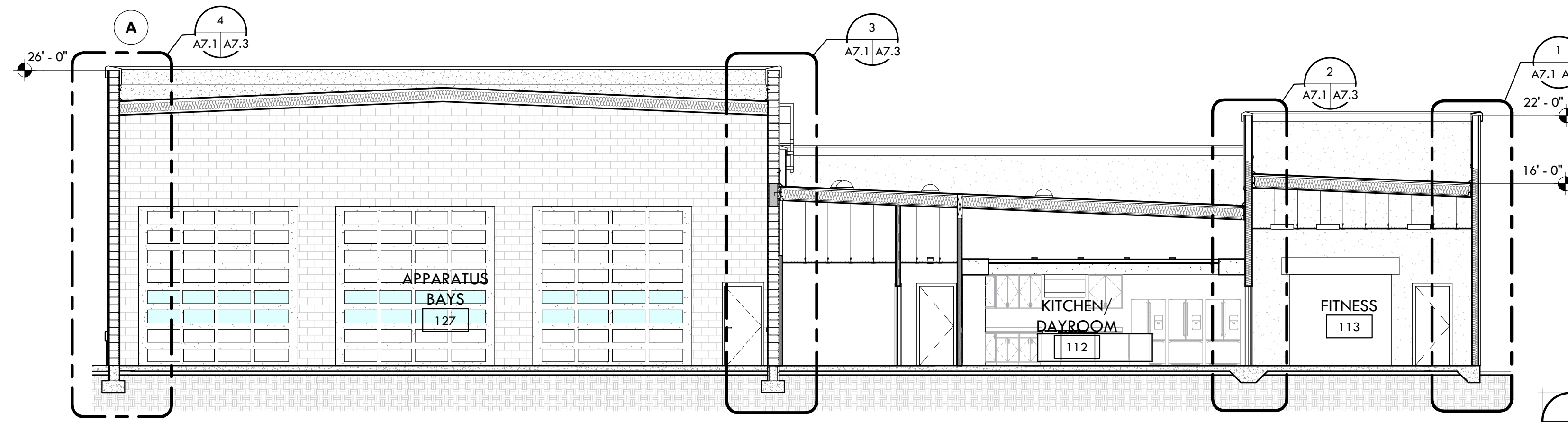
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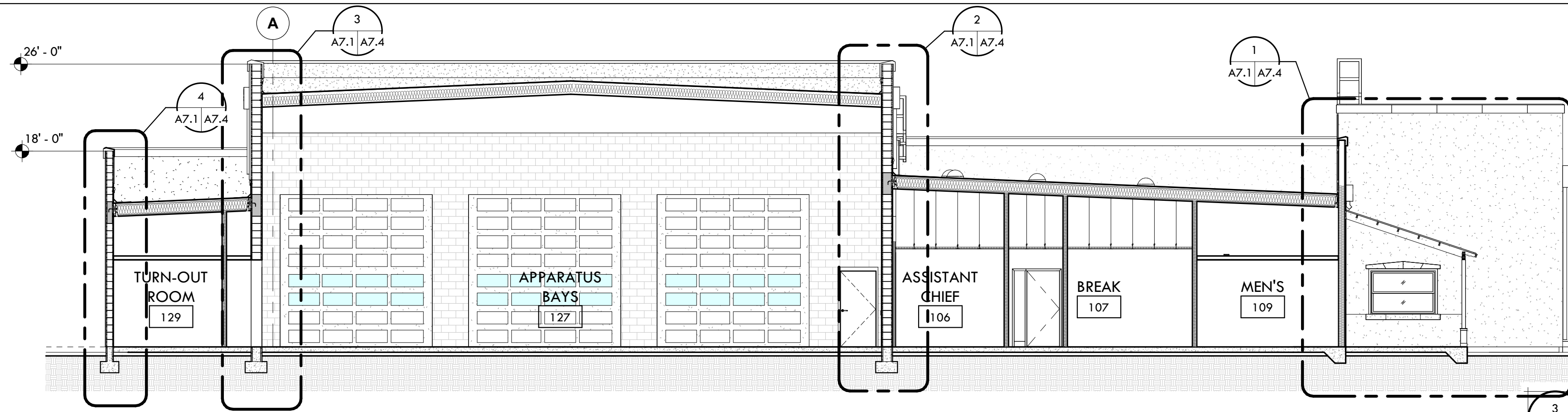
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Building Elevations

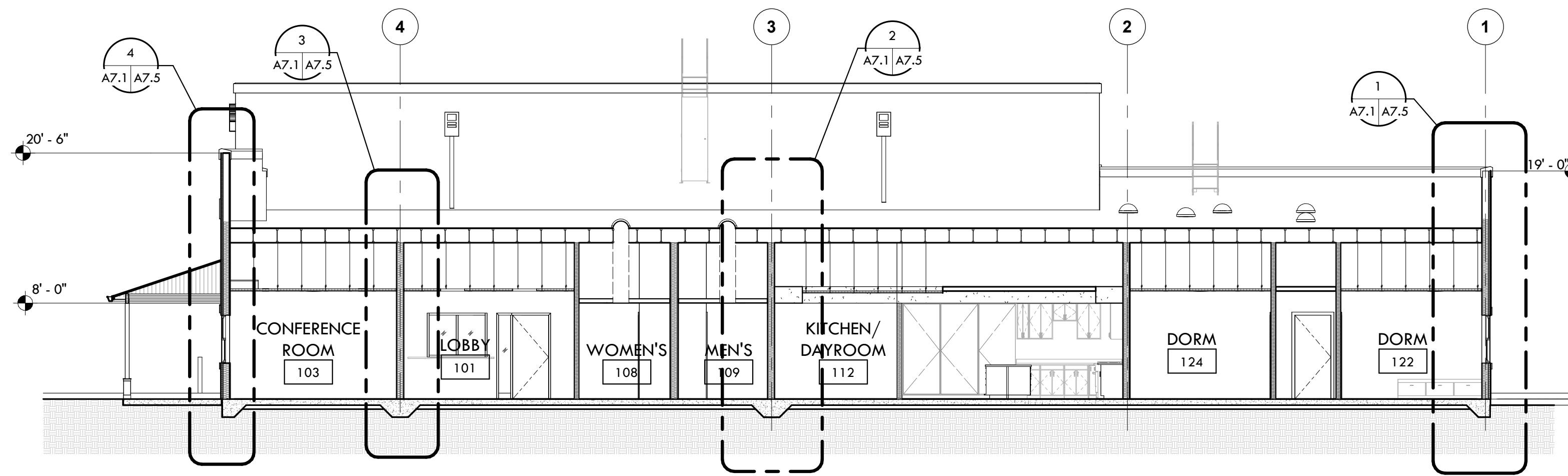
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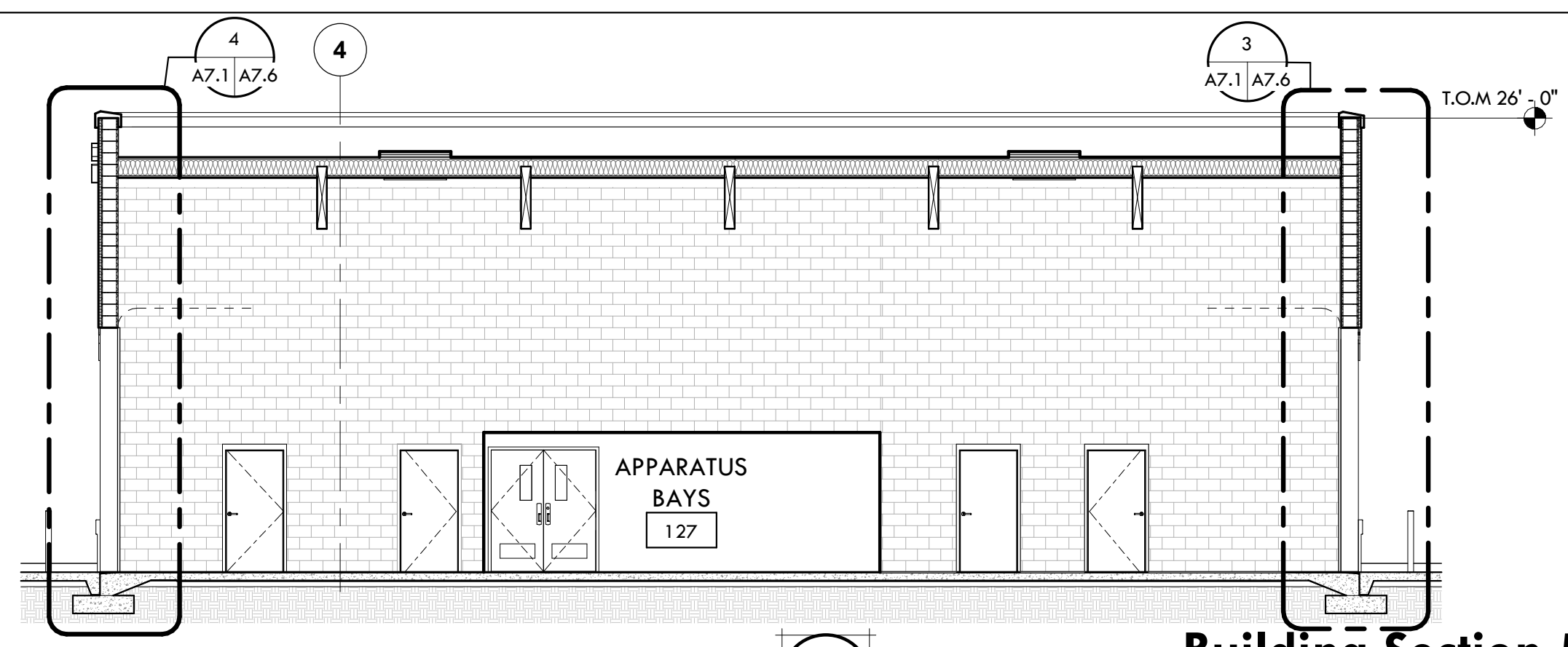
Building Section 1
 1/8" = 1'-0" 0' 8' 24'



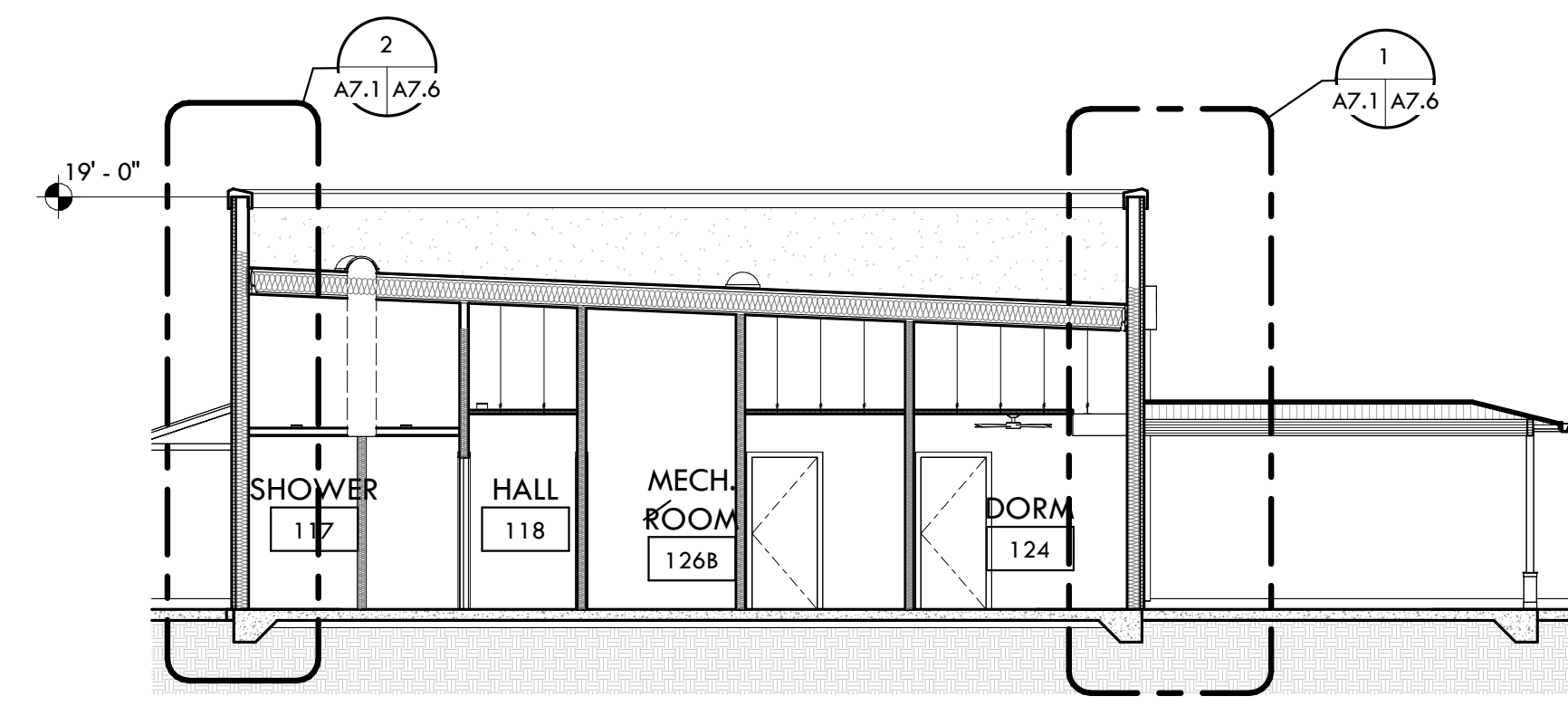
Building Section 2
 1/8" = 1'-0" 0' 8' 24'



Building Section 3
 1/8" = 1'-0" 0' 8' 24'



Building Section 5
 1/8" = 1'-0" 0' 8' 24'



Building Section 4
 1/8" = 1'-0" 0' 8' 24'

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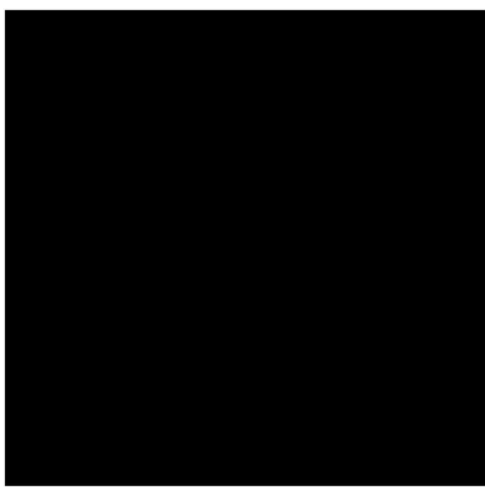
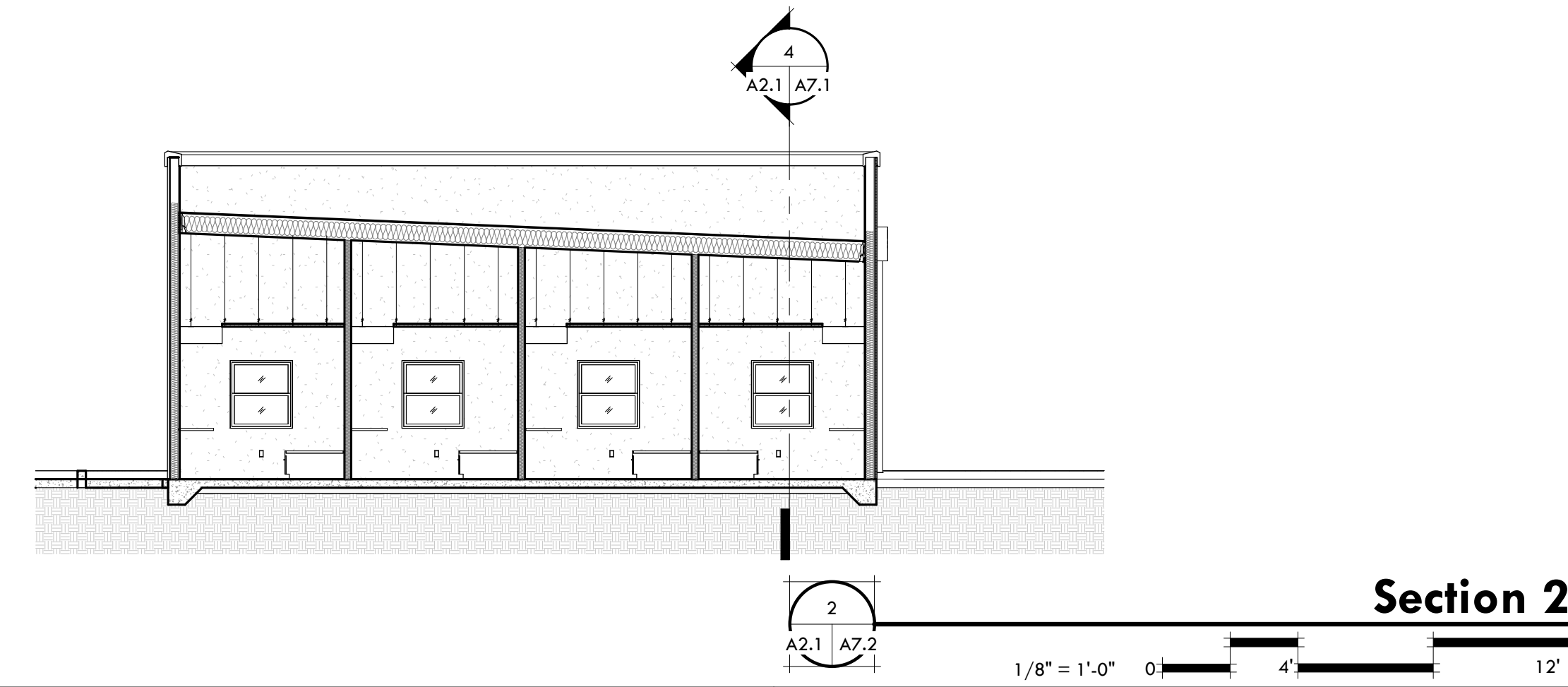
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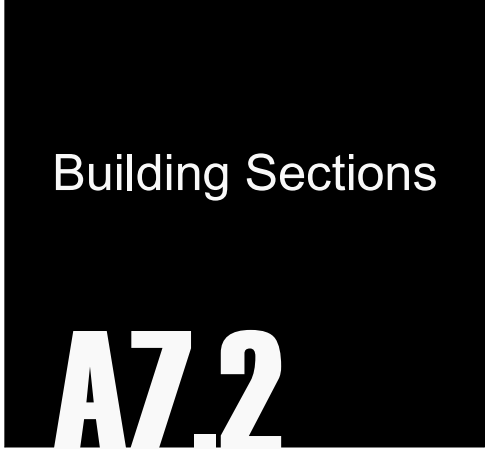
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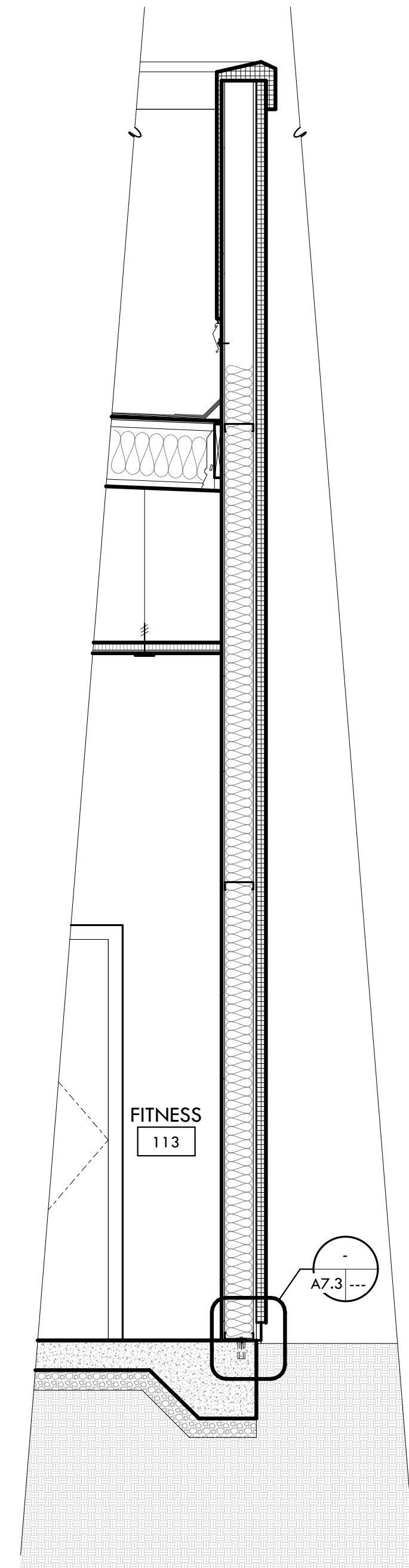
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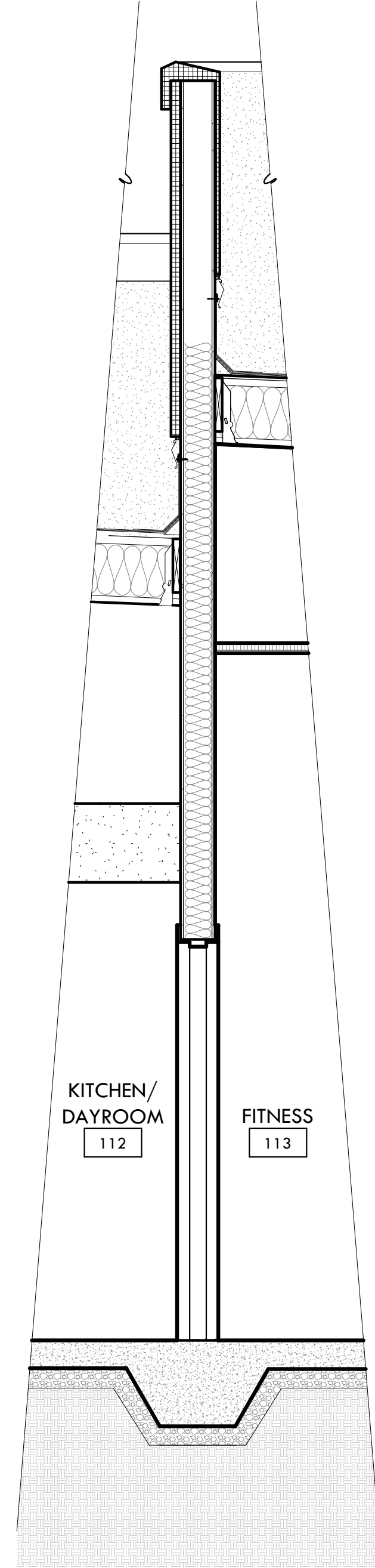
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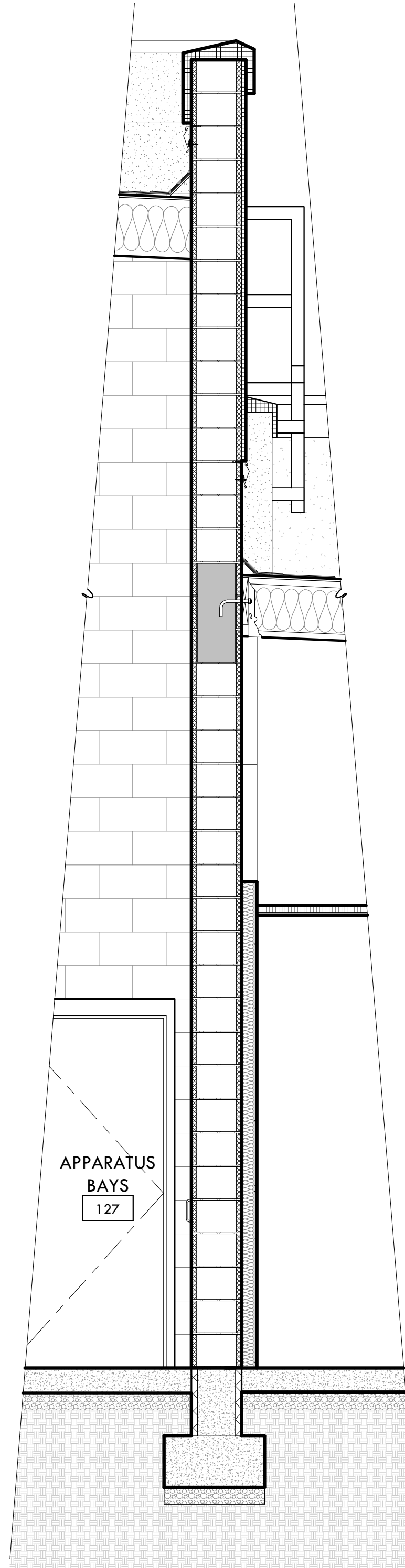
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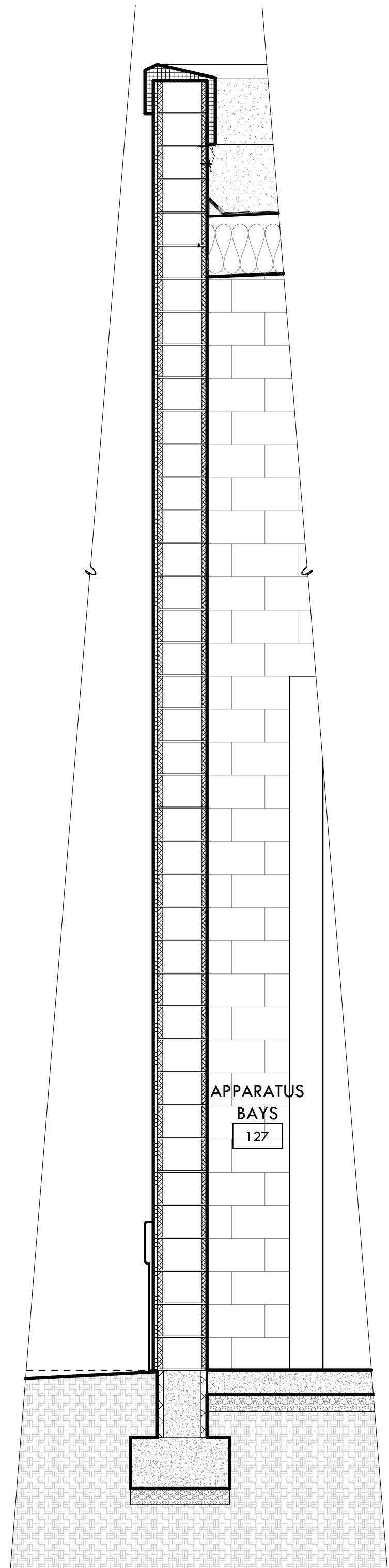
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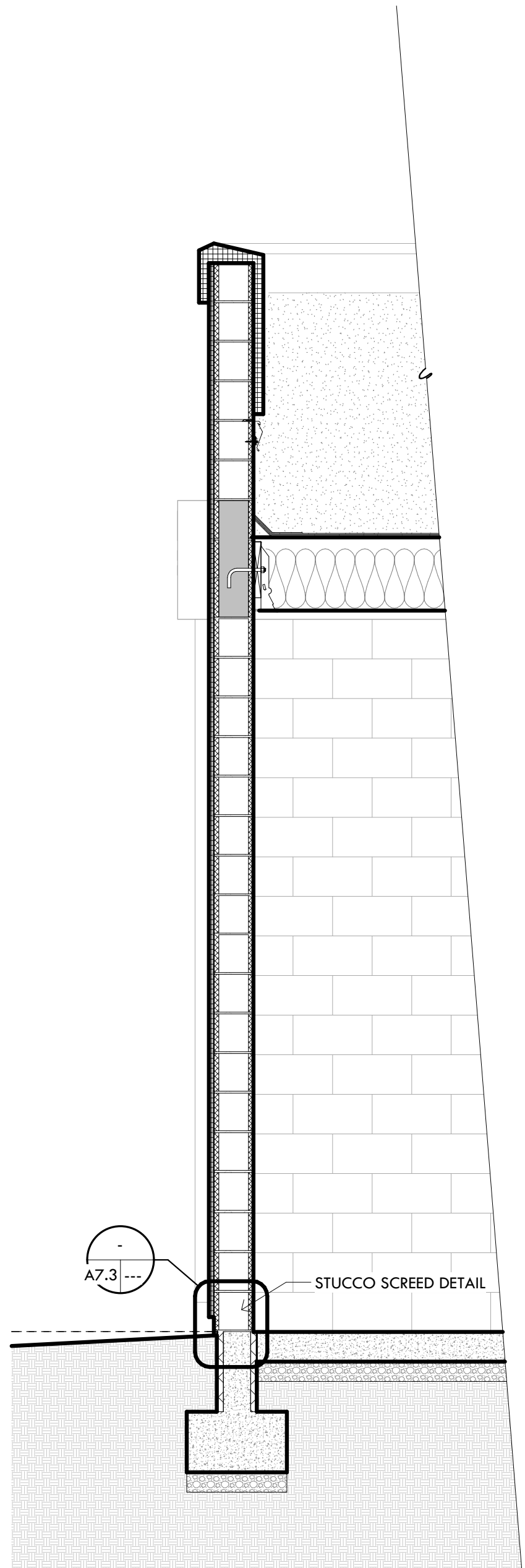
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 A7.1 A7.3



3
 A7.1 A7.3



4
 A7.1 A7.3



5
 A2.1 A7.3

PLOT: 8/19/2024 7:52:47 AM

Wall Section 5
 1/2" = 1'-0" 0 2' 6'

Wall Section 4
 1/2" = 1'-0" 0 4' 12'

Wall Section 3
 1/2" = 1'-0" 0 2' 6'

Wall Section 2
 1/2" = 1'-0" 0 2' 6'

Wall Section 1
 1/2" = 1'-0" 0 2' 6'

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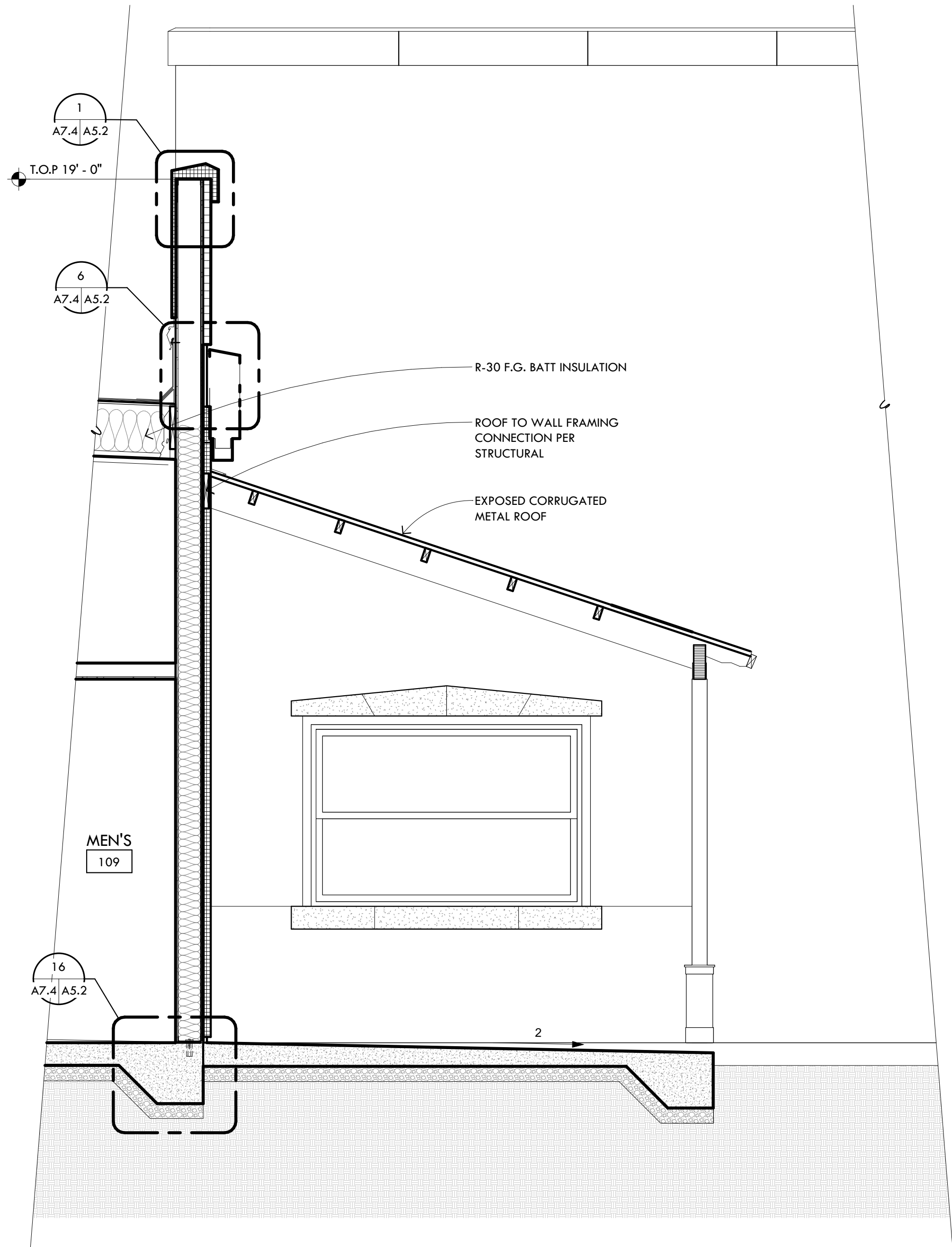
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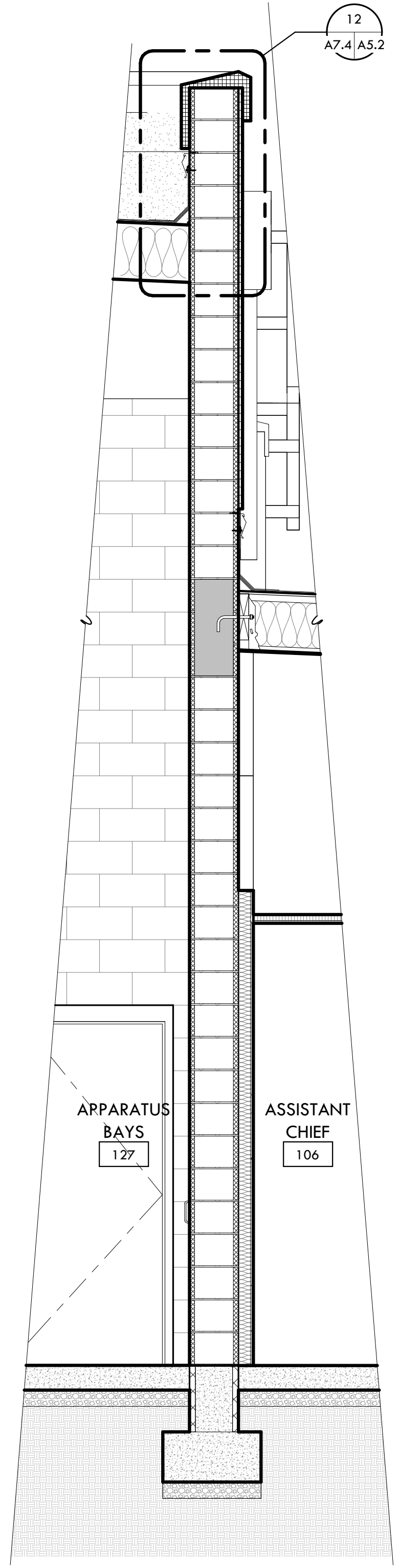
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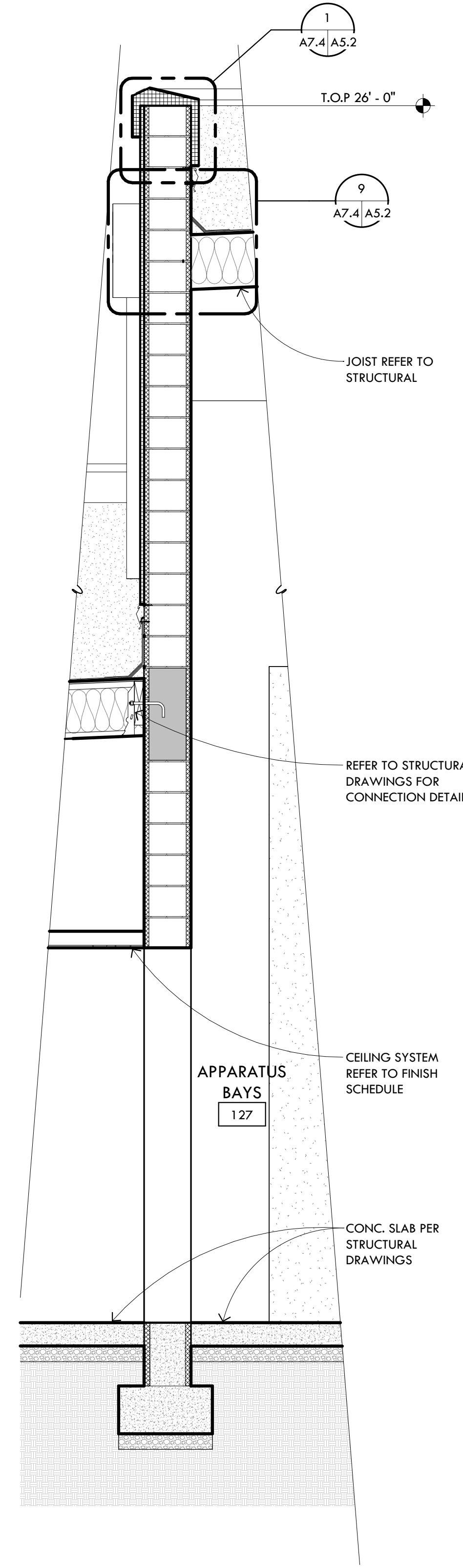
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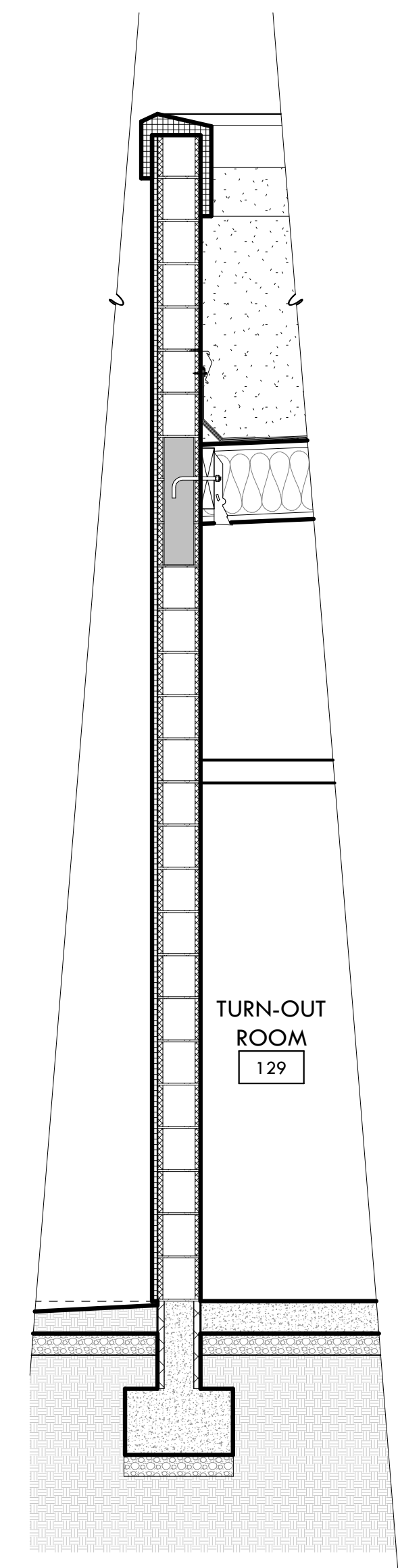
Wall Section 6
 1/2" = 1'-0" 0' 2' 6'



Wall Section 7
 1/2" = 1'-0" 0' 2' 6'



Wall Section 8
 1/2" = 1'-0" 0' 2' 6'



Wall Section 9
 1/2" = 1'-0" 0' 2' 6'

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DATE:
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REVISION SCHEDULE:

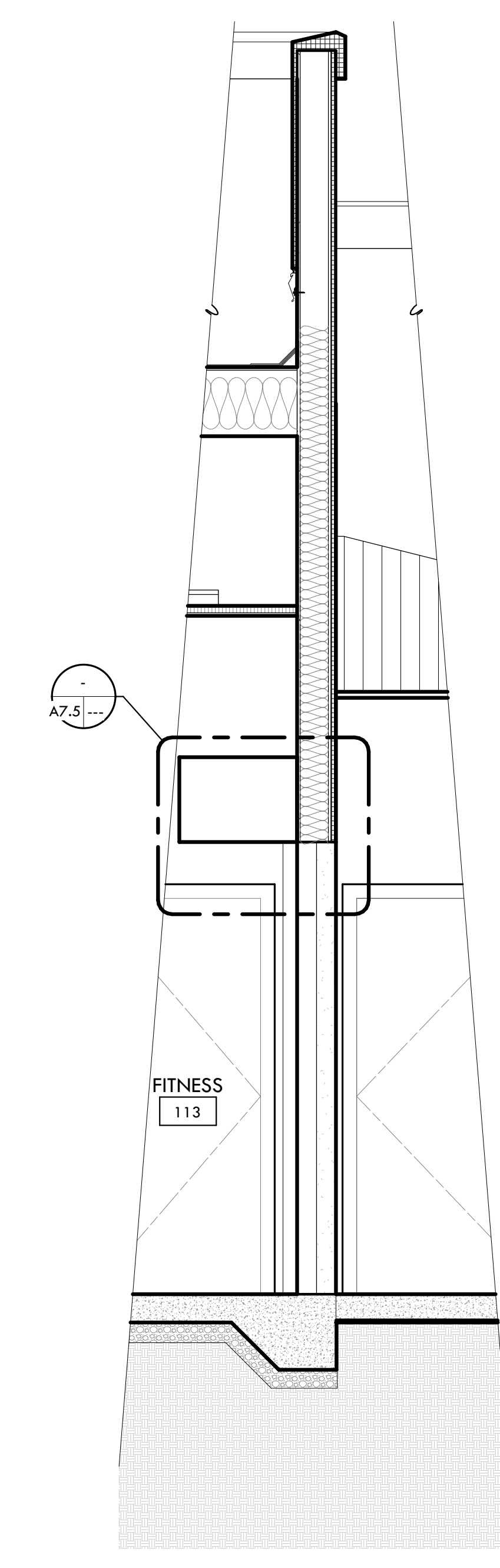
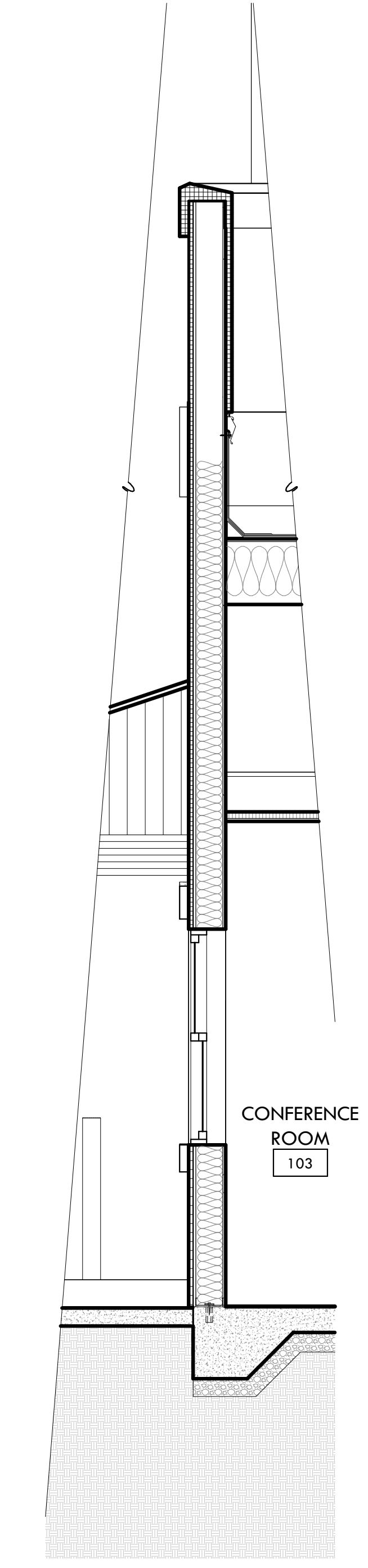
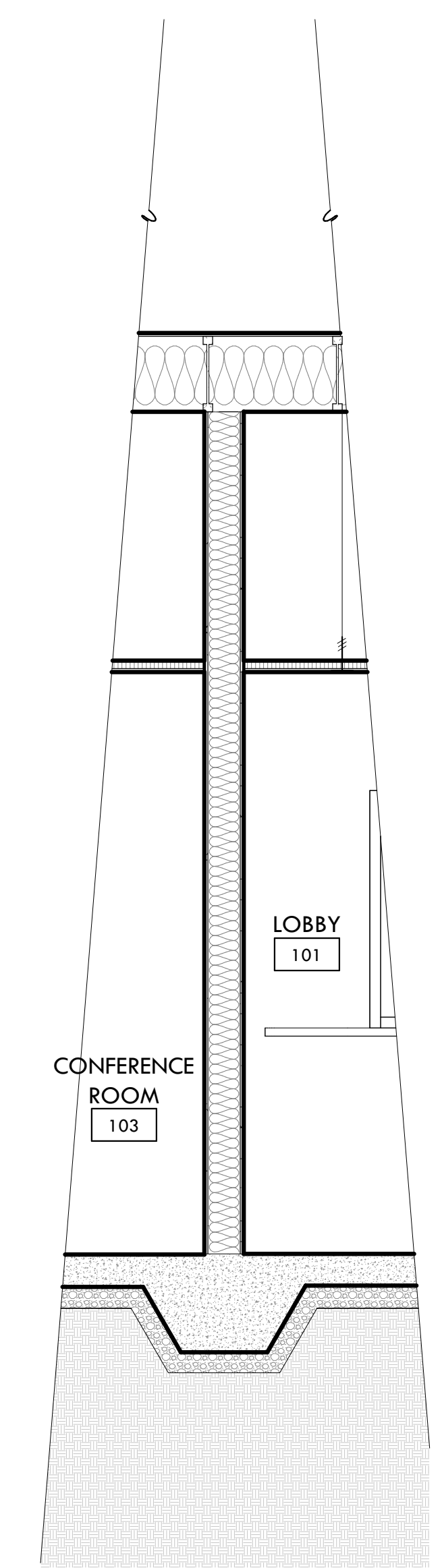
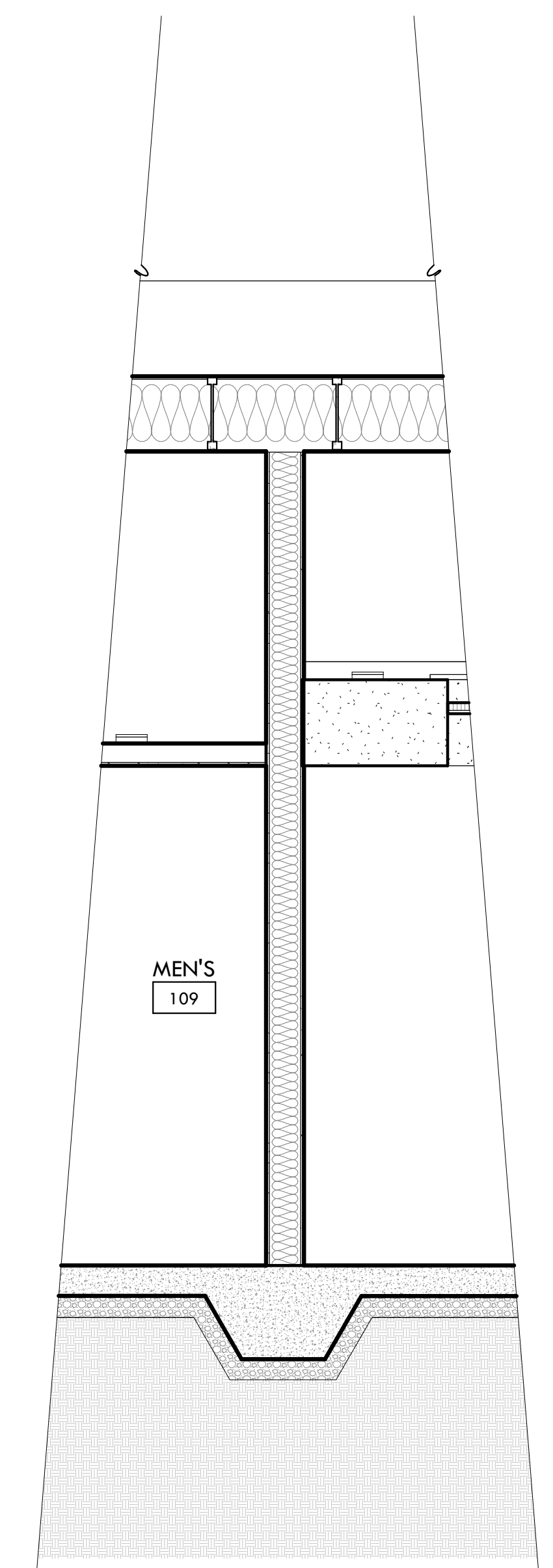
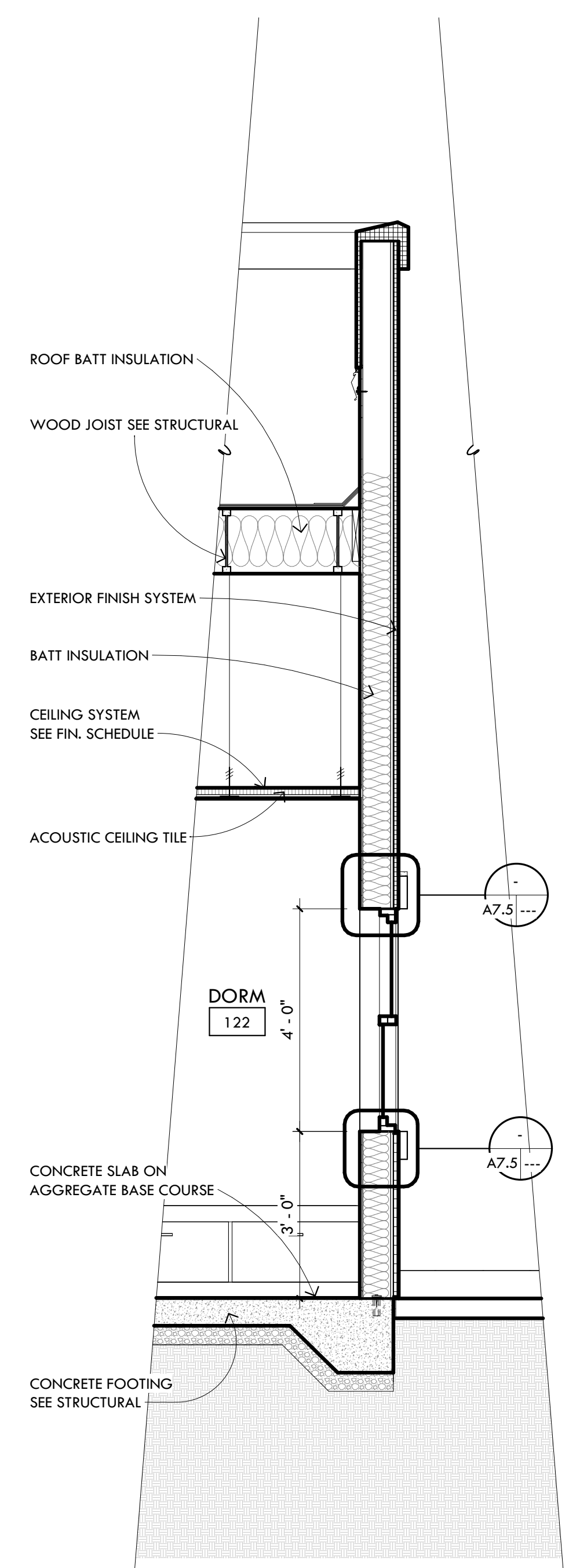
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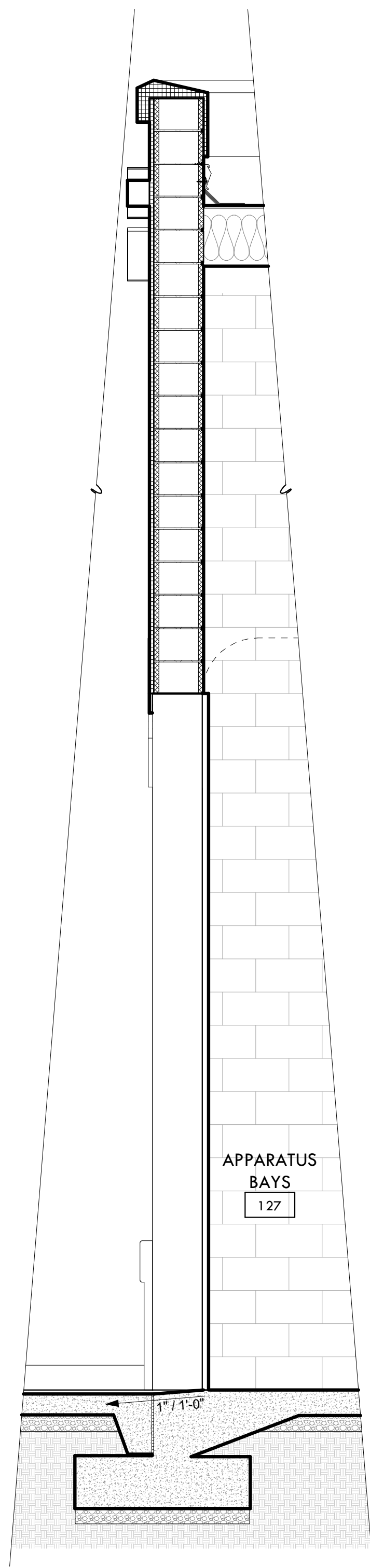
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ALL TYPICAL NOTES ARE REFERENCE ON THIS WALL SECTION ONLY AND ARE NOT NOTED ON OTHER WALL SECTIONS

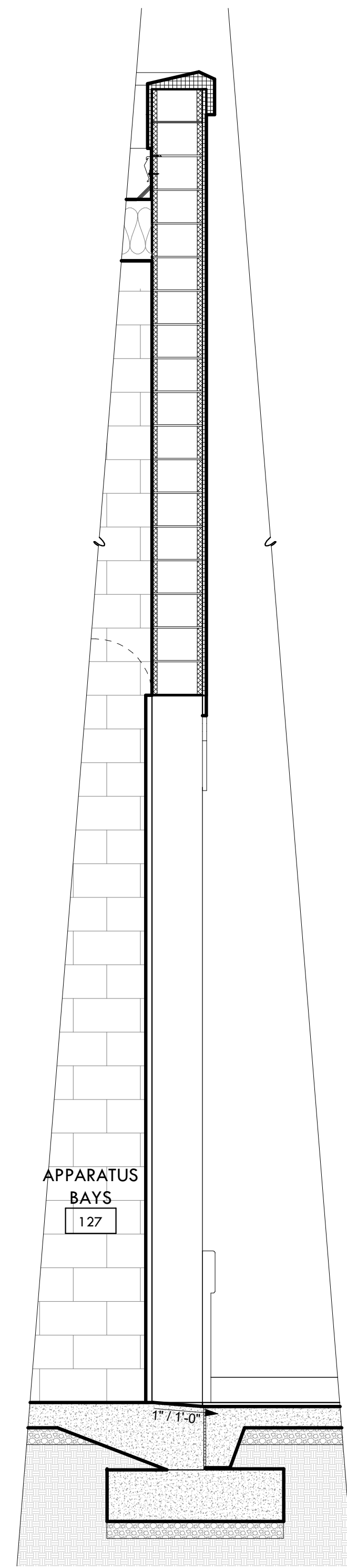


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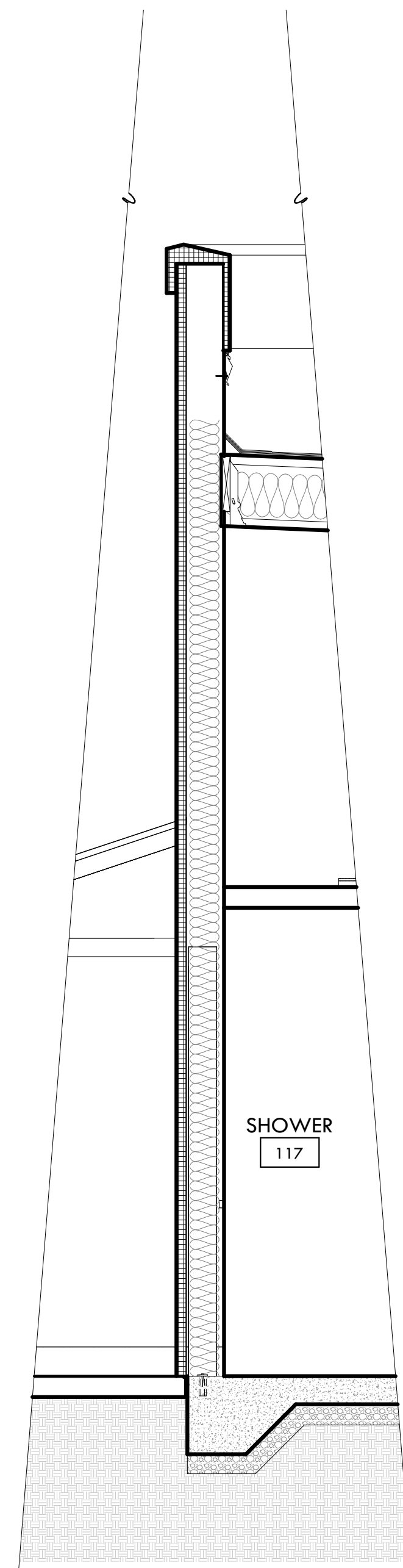
5 Wall Section 14 4 Wall Section 13 3 Wall Section 12 2 Wall Section 11 1 Wall Section 10
A2.1 A7.5 1/2" = 1'-0" 0' 2' 6'
A7.1 A7.5 1/2" = 1'-0" 0' 2' 6'
A7.1 A7.5 1/2" = 1'-0" 0' 2' 6'
A7.1 A7.5 1/2" = 1'-0" 0' 2' 6'
A7.1 A7.5 1/2" = 1'-0" 0' 2' 6'



Wall Section 18

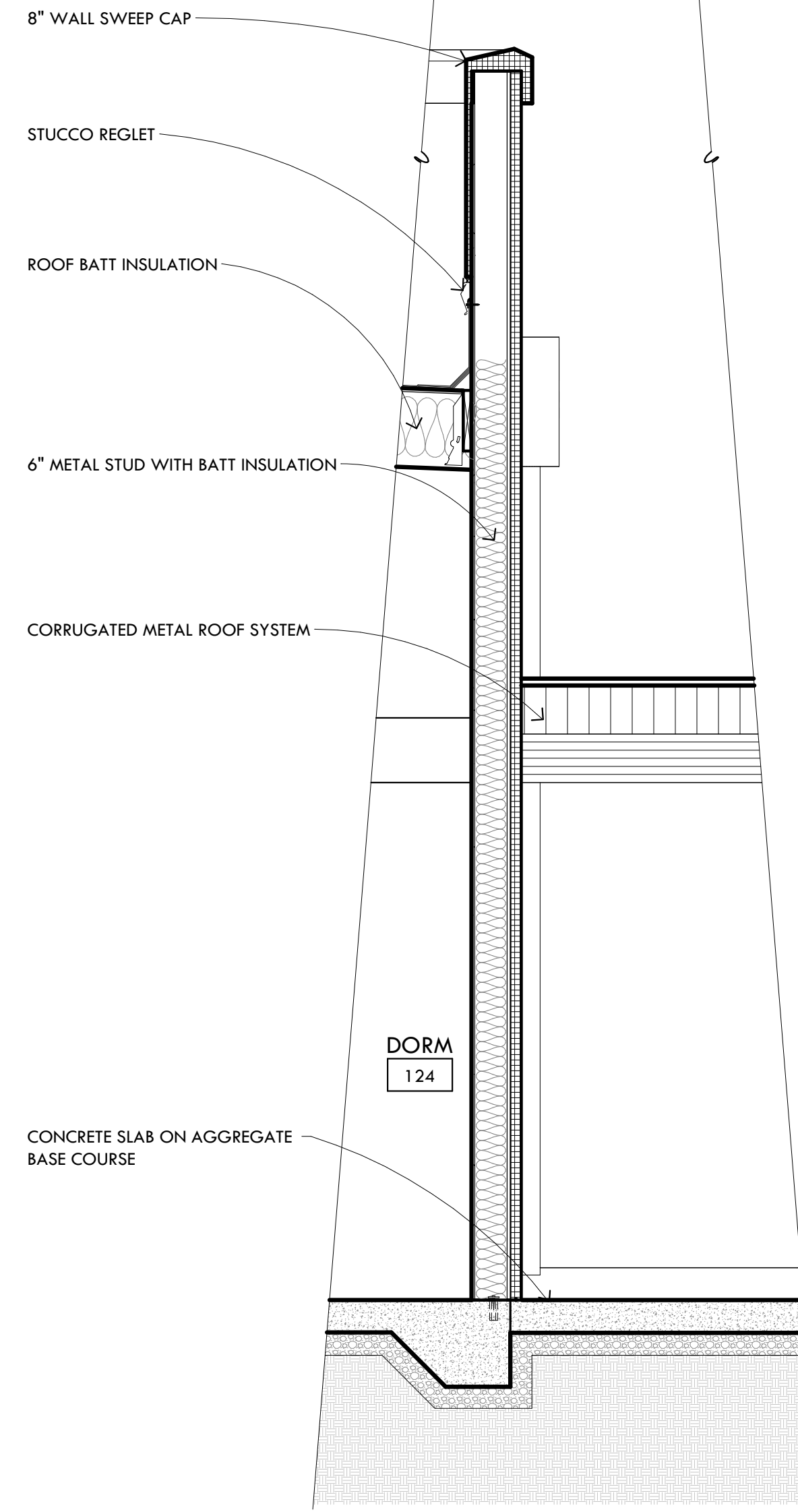


Wall Section 17



Wall Section 16

ALL TYPICAL NOTES ARE REFERENCED ON THIS WALL SECTION ONLY AND ARE NOT NOTED ON OTHER WALL SECTIONS



Wall Section 15

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Tubac Fire Station #1
2227 I-19 Frontage Rd., Tubac, AZ 85646

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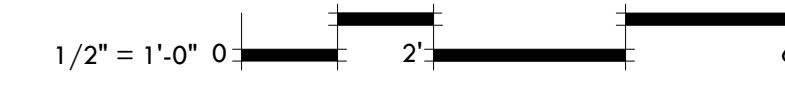
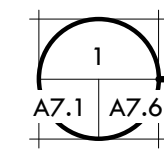
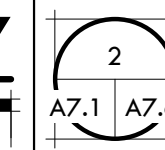
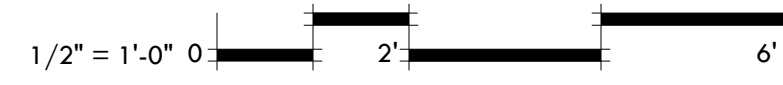
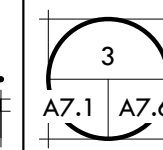
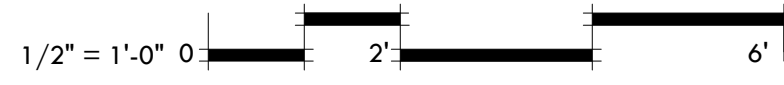
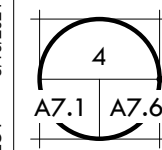
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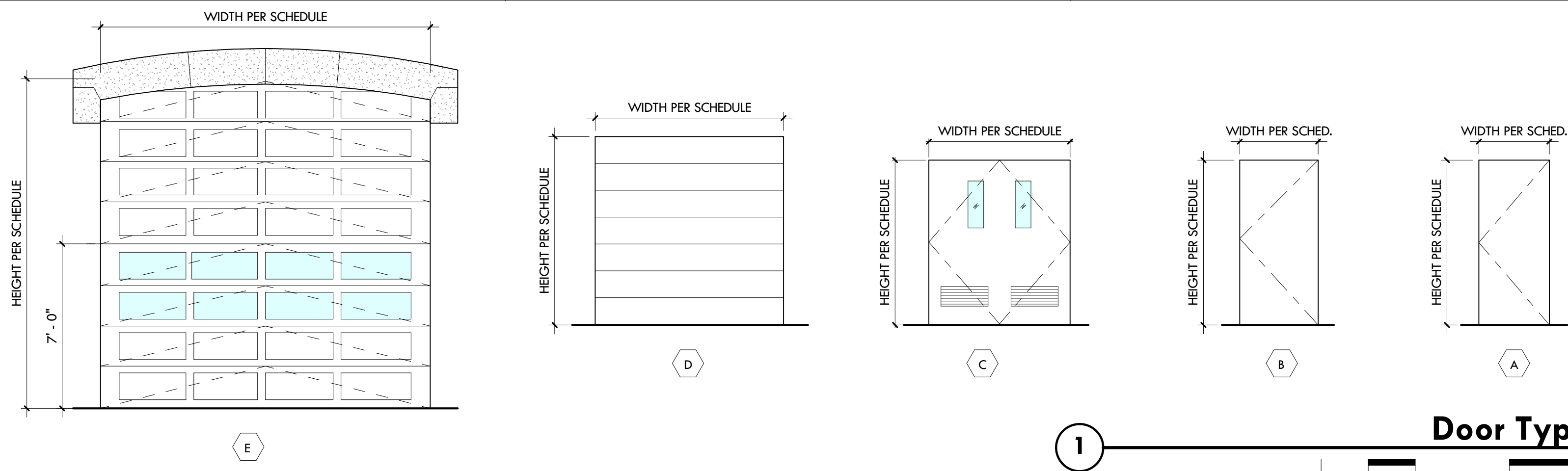
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Wall Sections

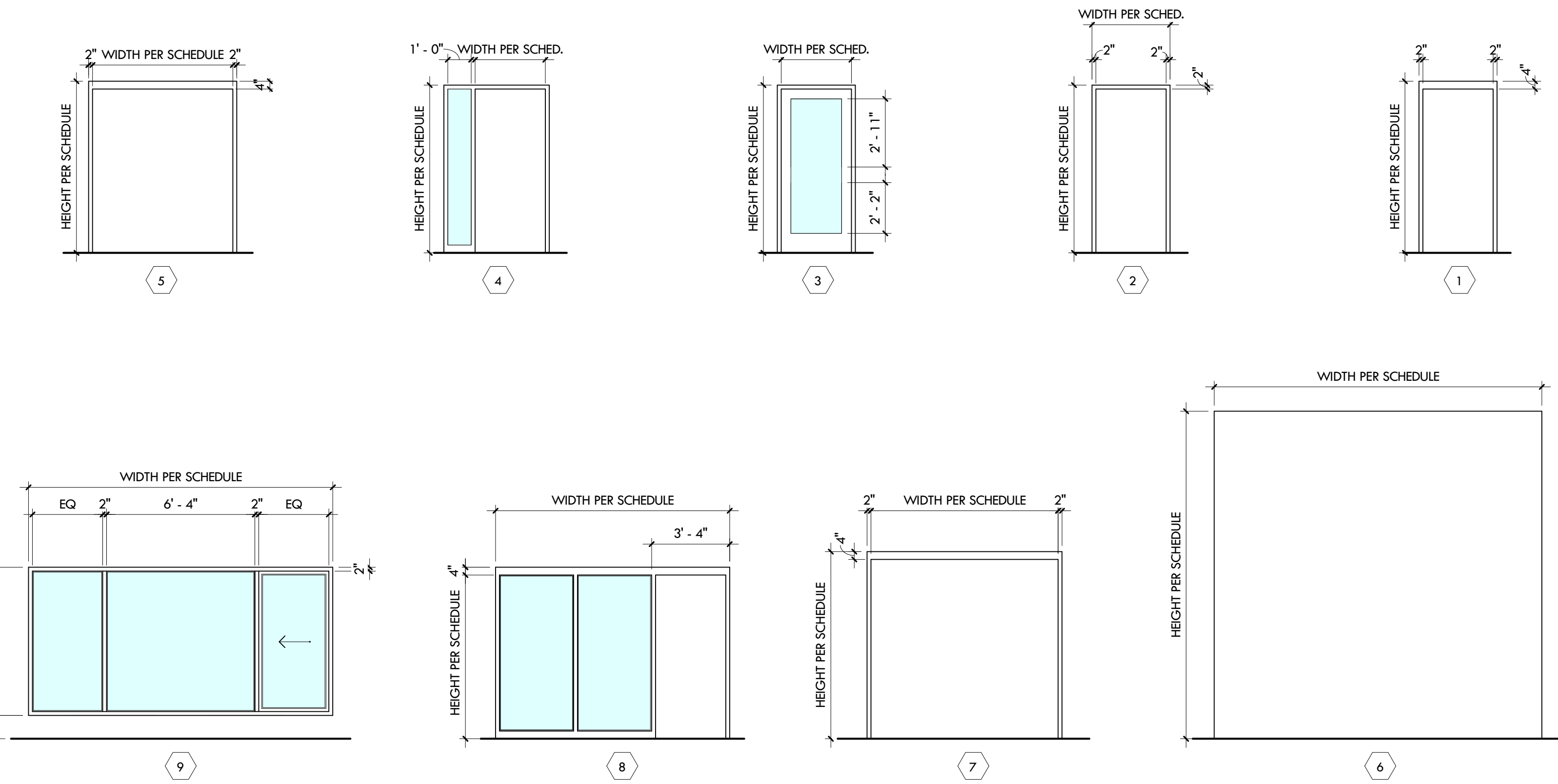
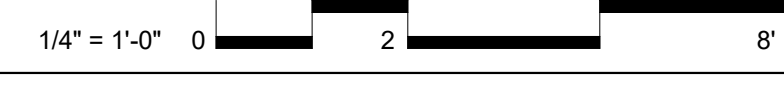
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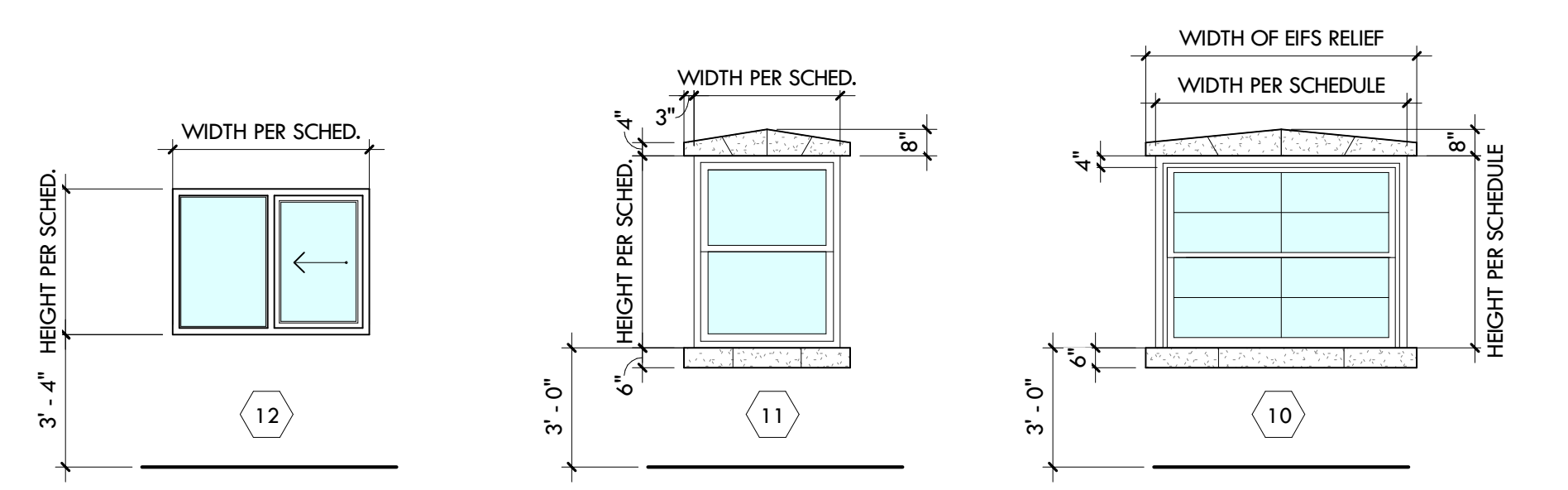
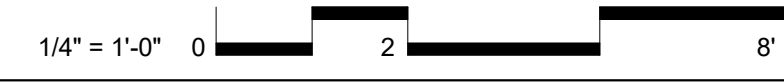




Door Types



Frame Types



Window Types



Opening Schedule

No.	Door Type	Height	Width	Door Material	Glazing Material	Frame Type	Frame Material	Details in Sheet A10.1			Hardware	Rating - Fire	Remarks
								Head	Jamb	Sill			
101A	A	7'-0"	3'-0 1/4"	HM	-	8	HM	13/A5.2	6	-	-	-	
101B	-	3'-8"	5'-0"	-	GL	12	AL	5	10	15	-	-	
102A	A	7'-0"	3'-0"	WD	GL	4	AL	19	20	-	-	-	
103B	-	4'-10"	6'-4"	-	GL	10	AL	5	10	15	-	-	
103C	-	4'-10"	6'-4"	-	GL	10	AL	5	10	15	-	-	
103D	-	4'-10"	6'-4"	-	GL	10	AL	5	10	15	-	-	
103A	A	7'-0"	3'-0"	WD	GL	4	AL	19	20	-	-	-	
104	A	7'-0"	3'-0"	WD	-	2	AL	19	20	-	-	-	
105B	-	4'-10"	6'-4"	-	GL	10	AL	5	10	15	-	-	
105A	A	7'-0"	3'-0"	WD	GL	4	AL	19	20	-	-	-	
106	A	7'-0"	3'-0"	WD	GL	4	AL	19	20	-	-	-	
108	A	7'-0"	3'-0"	WD	-	2	AL	19	20	-	-	-	
109	A	7'-0"	3'-0"	WD	-	2	AL	19	20	-	-	-	
112A	A	7'-0"	3'-0"	WD	-	2	AL	19	20	-	-	-	
112B	B	7'-0"	3'-4"	HM	-	2	HM	13/A5.2	6	-	-	-	
113A	A	7'-0"	3'-0"	HM	-	2	HM	13/A5.2	6	-	-	-	
113C	-	6'-4"	13'-0"	-	GL	9	AL	5	10	15	-	-	
113D	-	4'-10"	6'-4"	-	GL	10	HM	5	10	15	-	-	
113B	D	8'-0"	9'-0"	STL	-	7	STL	6/A10.2	-	-	-	-	
114B	-	4'-10"	6'-4"	-	GL	10	HM	13	17	-	-	-	
114A	A	7'-0"	3'-0"	WD	-	2	AL	19	20	-	-	-	
115A	B	7'-0"	3'-4"	WD	-	2	AL	19	20	-	-	-	
115B	B	7'-0"	3'-4"	HM	-	3	HM	3	6	-	-	-	
116	A	7'-0"	3'-0"	WD	-	2	AL	19	20	-	-	-	
117	A	7'-0"	3'-0"	WD	-	2	AL	19	20	-	-	-	
118A	A	7'-0"	3'-0"	WD	GL	4	AL	19	20	-	-	-	
118B	A	7'-0"	3'-0"	WD	-	2	AL	19	20	-	-	-	
118C	B	7'-0"	3'-4"	HM	-	2	HM	1	6	-	-	-	
119B	-	4'-10"	3'-8"	-	GL	11	AL	5	10	15	-	-	
119A	A	7'-0"	3'-0"	WD	-	2	AL	19	20	-	-	-	
120B	-	4'-10"	3'-8"	-	GL	11	AL	5	10	15	-	-	
120A	A	7'-0"	3'-0"	WD	-	2	AL	19	20	-	-	-	
121B	-	4'-10"	3'-8"	-	GL	11	AL	5	10	15	-	-	
121A	A	7'-0"	3'-0"	WD	-	2	AL	19	20	-	-	-	
122B	-	4'-10"	3'-8"	-	GL	11	AL	5	10	15	-	-	
122A	A	7'-0"	3'-0"	WD	-	2	AL	19	20	-	-	-	
123	A	7'-0"	3'-0"	WD	-	2	AL	19	20	-	-	-	
124B	-	4'-10"	3'-8"	-	GL	11	AL	5	10	15	-	-	
124A	A	7'-0"	3'-0"	WD	-	2	AL	19	20	-	-	-	
125	A	7'-0"	3'-0"	WD	-	2	AL	19	20	-	-	-	
126A	A	7'-0"	3'-0"	WD	-	2	AL	19	20	-	-	-	
127A	B	7'-0"	3'-4"	HM	-	3	HM	1	6	-	-	-	
127B	E	14'-0"	14'-0"	STL	GL	6	STL	-	-	-	-	-	
127C	E	14'-0"	14'-0"	STL	GL	6	STL	-	-	-	-	-	
127D	E	14'-0"	14'-0"	STL	GL	6	STL	-	-	-	-	-	
127E	B	7'-0"	3'-4"	HM	-	3	HM	1	6	-	-	-	
127F	B	7'-0"	3'-4"	HM	-	3	HM	1	6	-	-	-	
127G	E	14'-0"	14'-0"	STL	GL	6	STL	-	-	-	-	-	
127H	E	14'-0"	14'-0"	STL	GL	6	STL	-	-	-	-	-	
127I	E	14'-0"	14'-0"	STL	GL	6	STL	-	-	-	-	-	
128	B	7'-0"	3'-4"	HM	-	1	HM	3	6	-	-	-	
129	C	7'-0"	6'-0"	HM	-	2	HM	2	7	-	-	-	
130	B	7'-0"	3'-4"	HM	-	3	HM	3	6	-	-	-	
131	B	7'-0"	3'-4"	HM	-	3	HM	1	6	-	-	-	

Door / Window Legend

- AL ALUMINUM
 - GL TEMPERED SAFETY GLASS
 - SCWD SOLID CORE WOOD
 - HM HOLLOW METAL
 - STL STEEL
- NOTE:** INSTALL HORIZONTAL LOUVER BLINDS AT ALL WINDOWS UNLESS OTHERWISE NOTED.

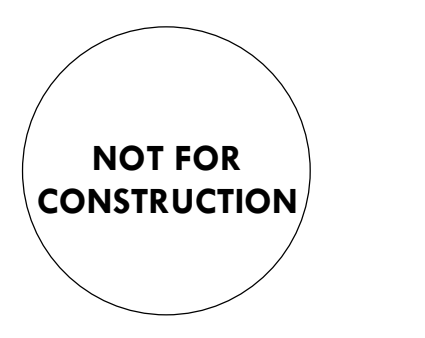
Notes

1. PAIR OF DOORS
2. 12" HT. NUMBER ON THE INTERIOR SIDE OF THE OVERHEAD DOOR, REFER TO SIGNAGE SCHEDULE ON SHEET A9.1

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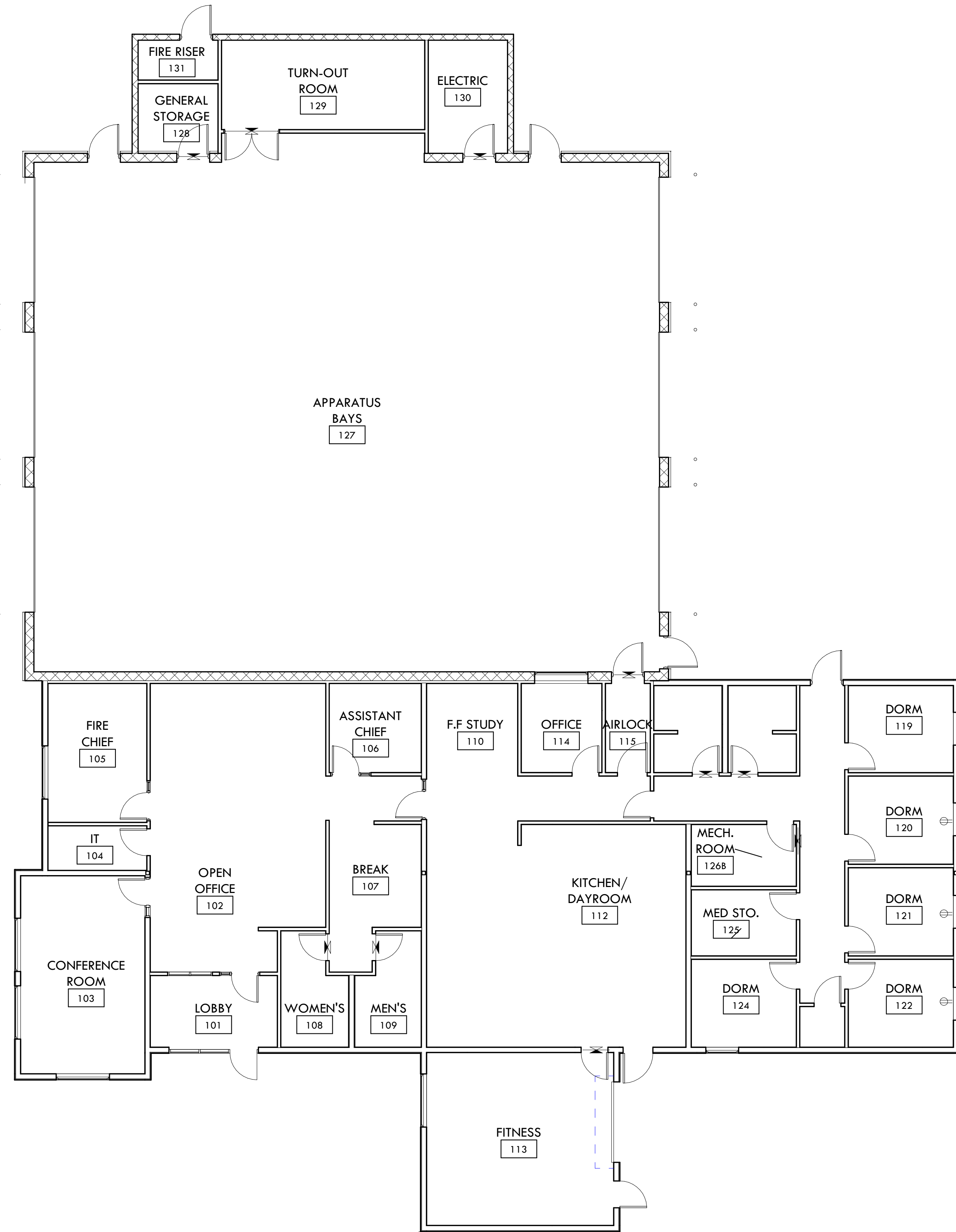


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Opening Schedule & Door & Window Frame
A8.1



Floor Finish Plan

SCALE: 1/8" = 1'-0" 0 8' 24'

Room Finish Schedule

Number	Room Name	Floor	Base	Walls				Ceiling			Notes
				North	East	South	West	Ht.	Matl.	Fin.	
101	LOBBY	PC	VB	P1	P1	P1	P1	-	ACT-1	-	
102	OPEN OFFICE	PC	VB	P1	P1	P1	P1	-	ACT-1	-	
103	CONFERENCE ROOM	PC	VB	P1	P1	P1	P1	-	ACT-1	-	
104	IT	PC	VB	P1	P1	P1	P1	-	ACT-2	-	
105	FIRE CHIEF	PC	VB	P1	P1	P1	P1	-	ACT-1	-	
106	ASSISTANT CHIEF	PC	VB	P1	P1	P1	P1	-	ACT-1	-	
107	BREAK	PC	VB	P1	P1	P1	P1	-	ACT-1	-	
108	WOMEN'S	PC	CT	CT	CT	CT	CT	8'-0"	GWB	P1	3
109	MEN'S	PC	CT	CT	CT	CT	CT	8'-0"	GWB	P1	3
110	F.F. STUDY	SC	VB	P1	P1	P1	P1	-	ACT-1	-	
112	KITCHEN/ DAYROOM	PC	VB	P1	P1	P1	P1	-	GWB	P1	
113	FITNESS	AF	AFB	P1	P1	P1	P1	-	ACT-1	-	2
114	OFFICE	PC	VB	P1	P1	P1	P1	-	ACT-1	-	
115	AIRLOCK	PC	VB	P1	P1	P1	P1	-	ACT-1	-	
116	SHOWER	PC	CT	CT	CT	CT	CT	8'-0"	GWB	P1	3
117	SHOWER	PC	CT	CT	CT	CT	CT	8'-0"	GWB	P1	3
118	HALL	PC	VB	P1	P1	P1	P1	-	ACT-1	-	
119	DORM	PC	VB	P1	P1	P1	P1	10'-0"	ACT-3	-	
120	DORM	PC	VB	P1	P1	P1	P1	10'-0"	ACT-3	-	
121	DORM	PC	VB	P1	P1	P1	P1	10'-0"	ACT-3	-	
122	DORM	PC	VB	P1	P1	P1	P1	10'-0"	ACT-3	-	
123	STOR.										
124	DORM	PC	VB	P1	P1	P1	P1	10'-0"	ACT-3	-	
125	MED STO.	RE	VB	FRP	FRP	FRP	FRP	-	ES	-	1, 4
126A	JAN.	PC	VB	FRP	FRP	P1	P1	8'-0"	ACT-2	-	
126B	MECH. ROOM	SC	VB	P1	P1	P1	P1	-	ES	-	1
127	APPARATUS BAYS	SC	-	P1	P1	P1	P1	-	ES	-	
128	GENERAL STORAGE	RE	VB	FRP	FRP	FRP	FRP	-	ES	-	1, 4
129	TURN-OUT ROOM	RE	VB	FRP	FRP	FRP	FRP	-	ES	-	1, 4
130	ELECTRIC	RE	VB	FRP	FRP	FRP	FRP	-	ES	-	
131	FIRE RISER										

ROOM FINISH LEGEND

FLOOR	WALLS
SC SEALED CONCRETE	CT CERAMIC TILE
VB RUBBER WALL BASE	P1 PAINT - FIELD COLOR
SPF ATHLETIC FLOORING	P2 PAINT - ACCENT COLOR
AFB RUBBER WALL BASE	P3 PAINT - DOOR FRAMES
RE EPOXY FLOOR FINISH	FRP FIBER REINFORCED PANEL
PC POLISHED CONCRETE	
CMU CONCRETE MASONRY UNIT	CEILING
	GWB GYPSM WALL BOARD
	ACT-1 SUSPENDED ACOUSTICAL CEILING
	ACT-2 CLEAN RM. SUSP. ACOUSTICAL CEILING
	ACT-3 FIRE RATED SUSP. ACOUSTICAL CEILING
	ES EXPOSED STRUCTURE
	V VARIES

ROOM FINISH NOTES

1. WALLS SHALL HAVE A TYPE 4 LEVEL PAINTED FINISH TO THE BOTTOM OF THE STRUCTURE
2. ATHLETIC FLOORING BASE TO BE 18" HIGH
3. SOLID SURFACE WALLS & PAN @ SHOWER
4. RED EPOXY PAINTED FLOOR

Signage Schedule

Room Number	Door Number	Room Name	Sign Type	Qty	Sign Message	Notes
101	101A	LOBBY	A	1	LOBBY	
102	102A	OPEN OFFICE	A	1	OPEN OFFICE	
103	103A	CONFERENCE ROOM	A	1	CONFERENCE ROOM	
104	104	IT/ ELECT.	A	1	IT/ ELECTRICAL	
105	105	FIRE CHIEF	A	1	FIRE CHIEF	
106	106	ASSISTANT CHIEF	A	1	ASSISTANT CHIEF	
107	-	BREAK	A	1	BREAKROOM	
108	108	WOMENS	A	1	BATHROOM	
109	109	MENS	A	1	BATHROOM	
110	-	F.F. STUDY	A	1	FIRE FIGHTERS STUDY	
111	-	DAYROOM	A	1	DAYROOM	
112	112A	KITCHEN	A	1	KITCHEN	
113	113A	FITNESS	A	1	FITNESS	
114	114A	OFFICE	A	1	OFFICE	
115	115A	AIRLOCK	A	1	AIRLOCK	
115	115B	AIRLOCK	B	1	AIRLOCK	
116	116	SHOWER	A	1	SHOWER	
117	117	SHOWER	A	1	SHOWER	
118	118A	HALL	C	1	HALL	
118	118B	HALL	A	1	HALL	
118	118C	HALL	A	1	HALL	
119	119A	DORM	A	1	DORM	
120	120A	DORM	A	1	DORM	
121	121A	DORM	A	1	DORM	
122	122A	DORM	A	1	DORM	
124	124A	DORM	A	1	DORM	
125	125	MED STO.	A	1	MEDICAL STORAGE	
126	126A	JAN.	A	1	JANITOR	
126	126	MECH. ROOM	B	1	MECHANICAL ROOM	
127	127B	APPARATUS BAYS	D	1	APPARATUS BAYS	
127	127C	APPARATUS BAYS	D	1	APPARATUS BAYS	
127	127D	APPARATUS BAYS	D	1	APPARATUS BAYS	
127	127E	APPARATUS BAYS	E	1	APPARATUS BAYS	
127	127F	APPARATUS BAYS	E	1	APPARATUS BAYS	
127	127G	APPARATUS BAYS	D	1	APPARATUS BAYS	
127	127H	APPARATUS BAYS	D	1	APPARATUS BAYS	
127	127I	APPARATUS BAYS	D	1	APPARATUS BAYS	
127	127A	APPARATUS BAYS	E	1	APPARATUS BAYS	
128	128	GENERAL STORAGE	E	1	GENERAL STORAGE	
129	129	TURN-OUT ROOM	A	1	TURN-OUT ROOM	
130	130	ELECTRIC	E	1	ELECTRICAL	
131	131	FIRE RISER	E	1	FIRE RISER	
133						

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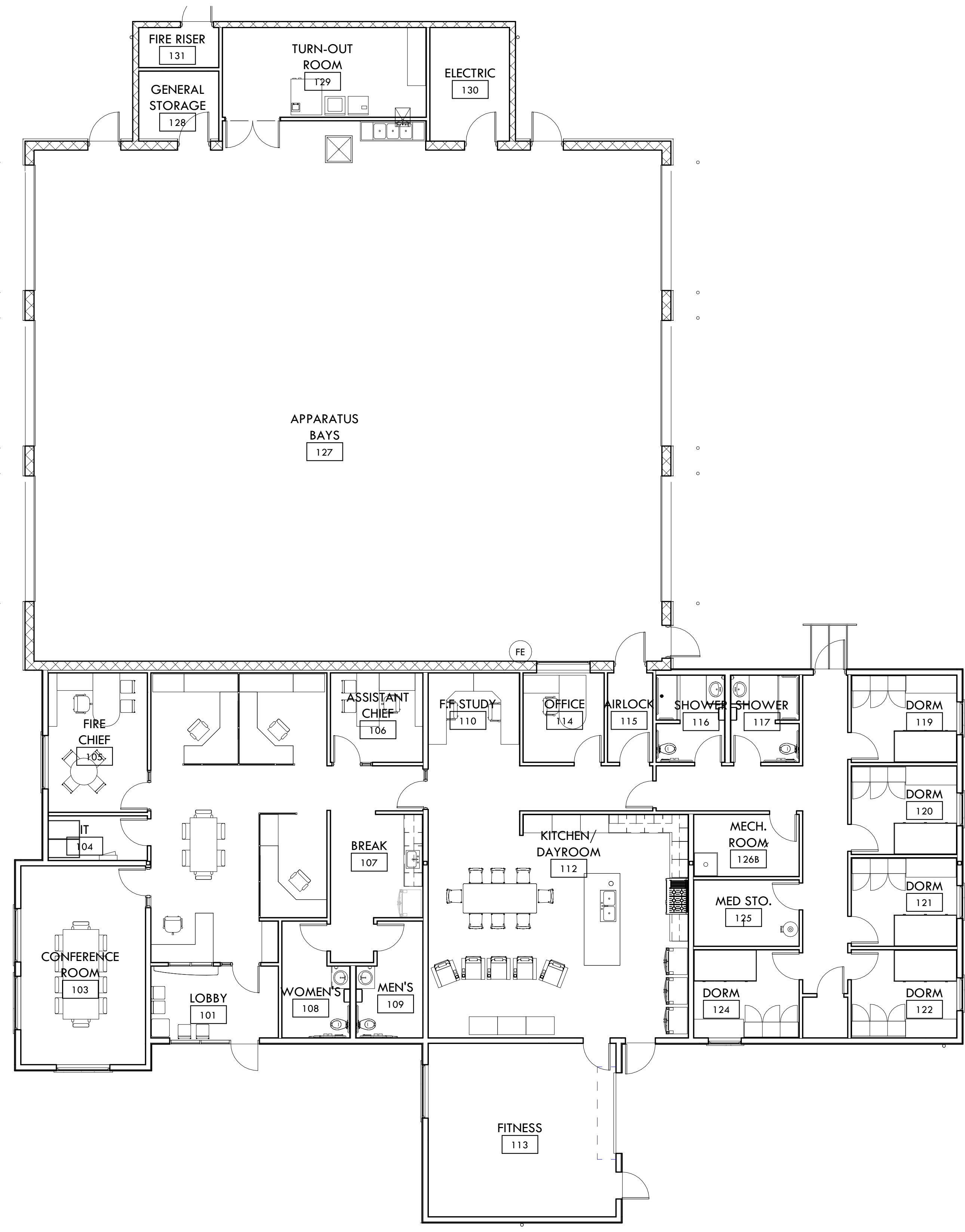
Tubac Fire Station #1
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 Intermediate Plans

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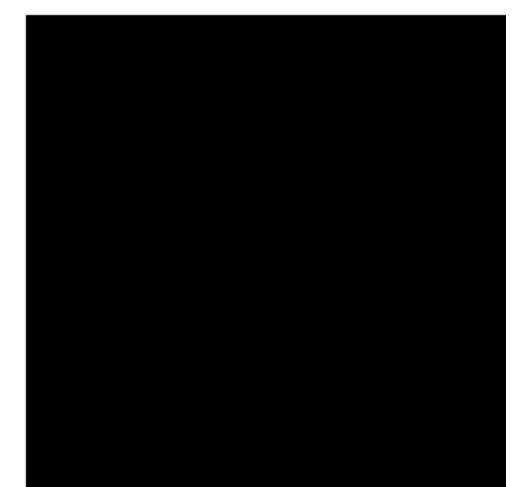
Room Finish Schedule
A9.1



Furniture/ Equipment Plan

SCALE: 1/8" = 1'-0" 0 8' 24'

PLOT: 8/19/2024 7:52:50 AM



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Intermediate Plans

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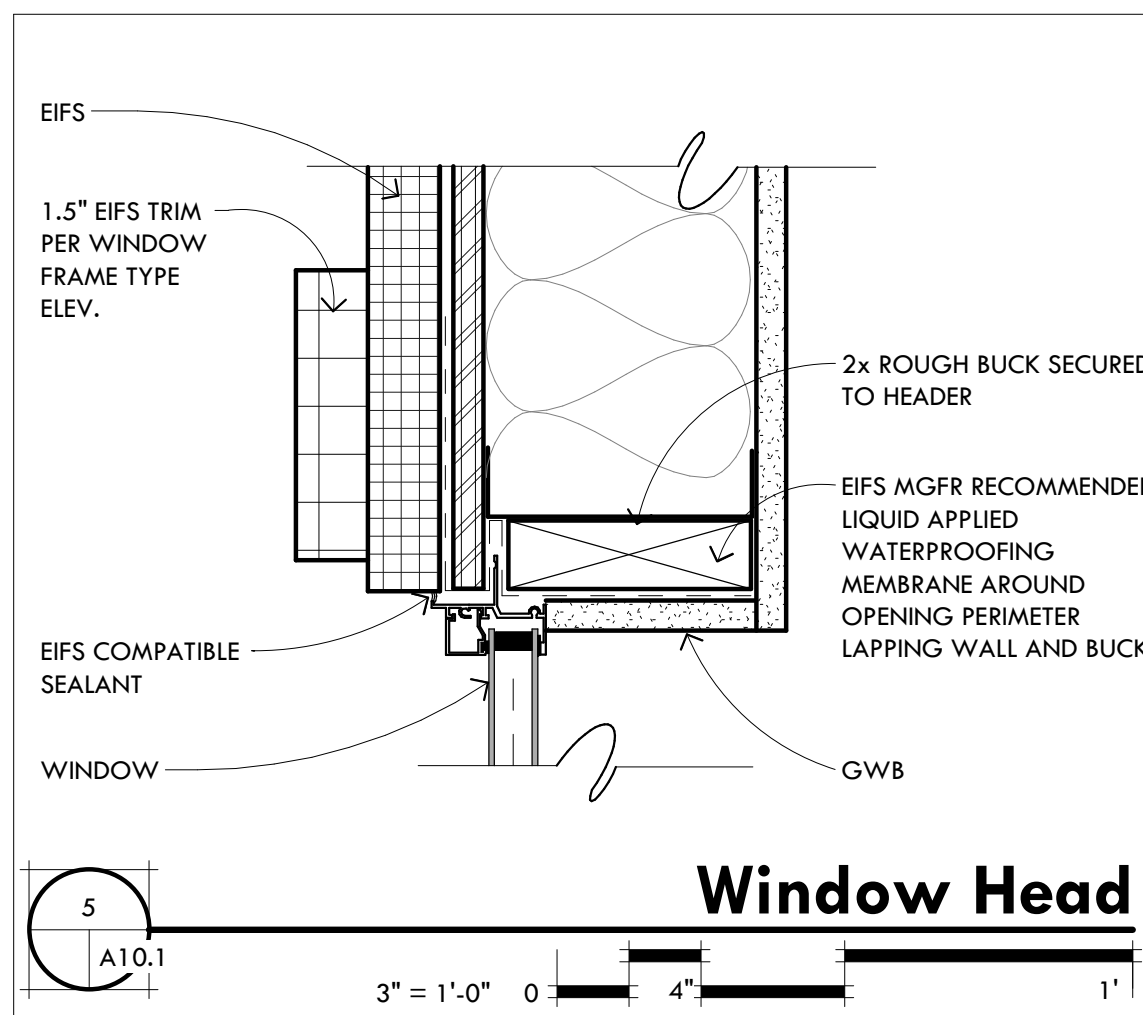
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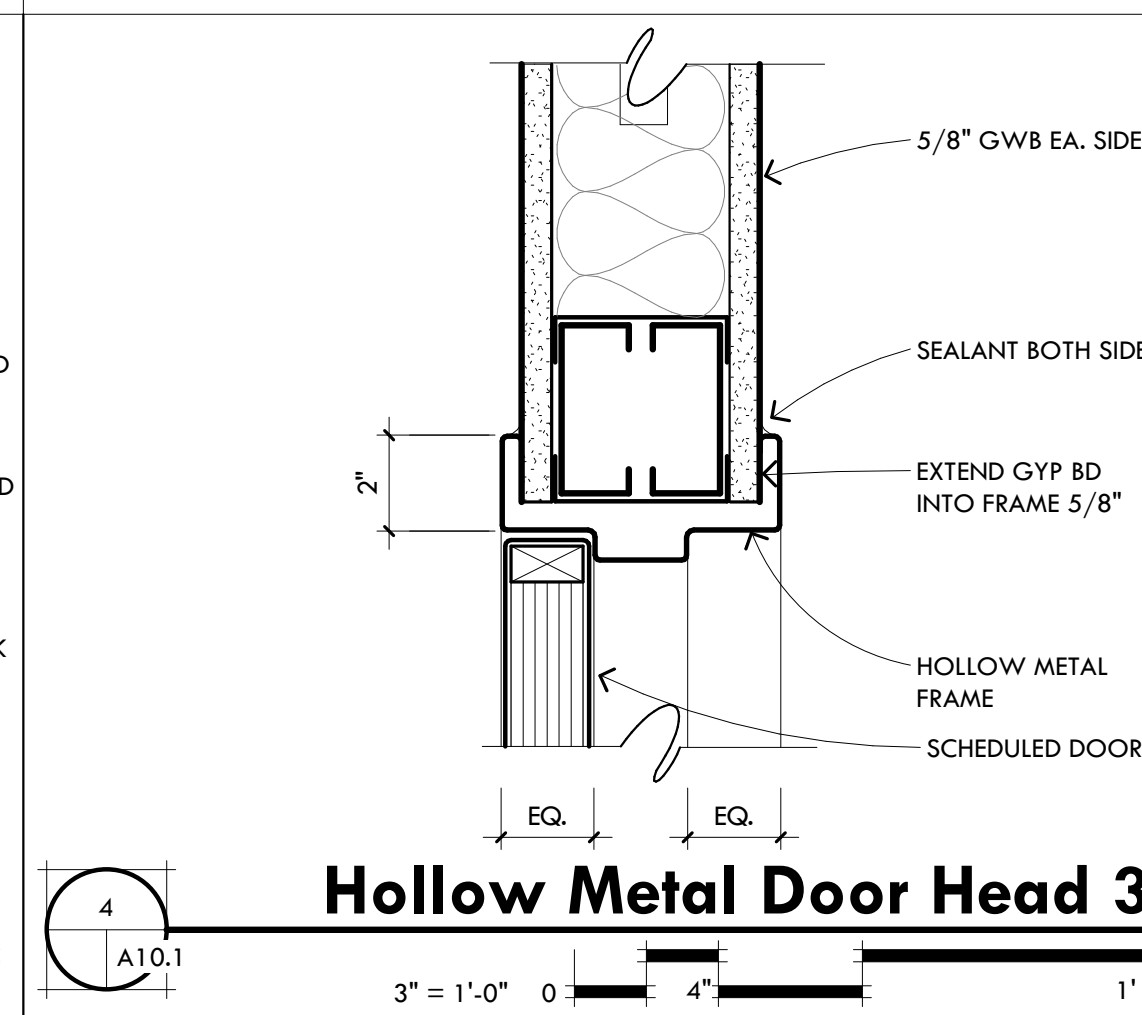
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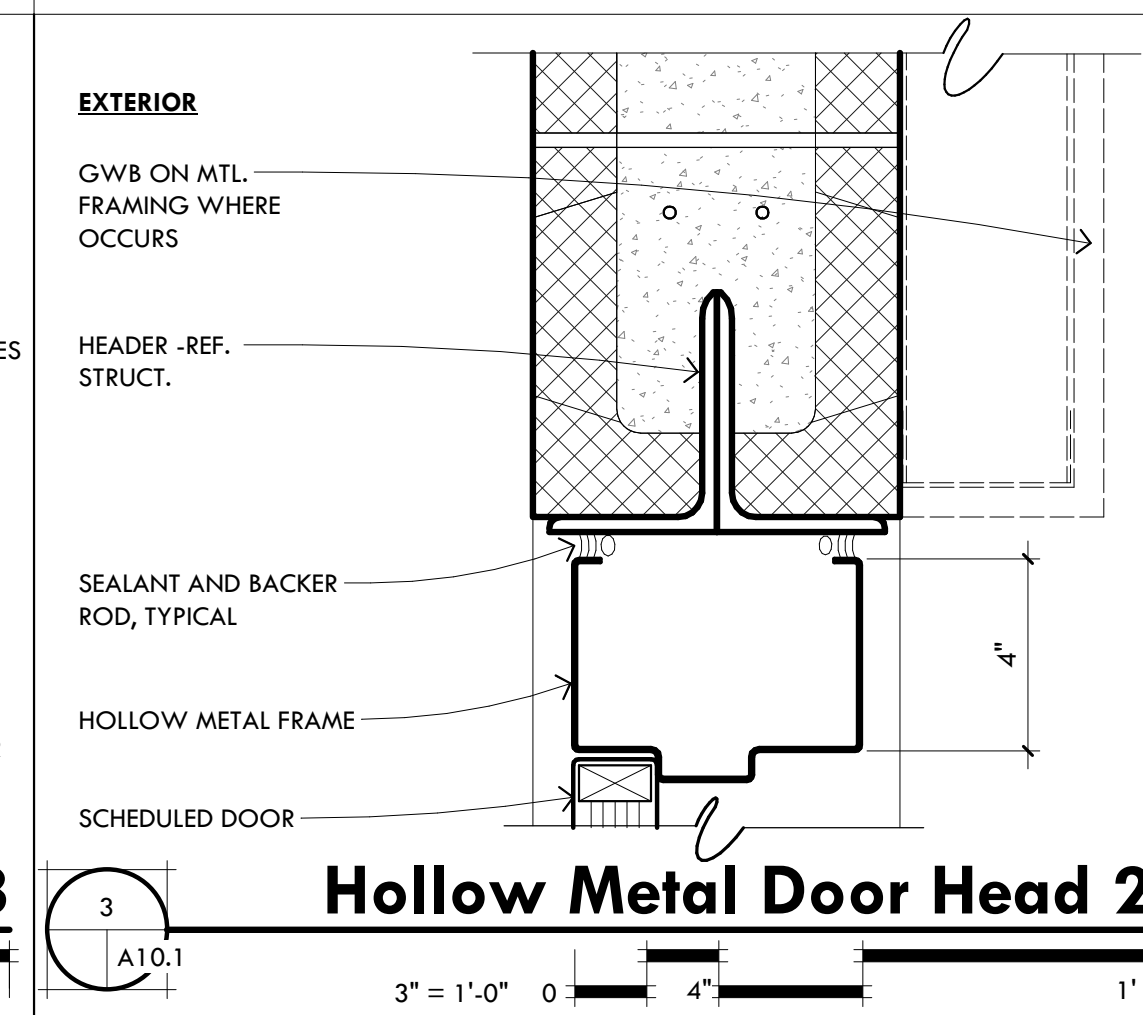
Furniture/ Equip.
Plan
A9.2



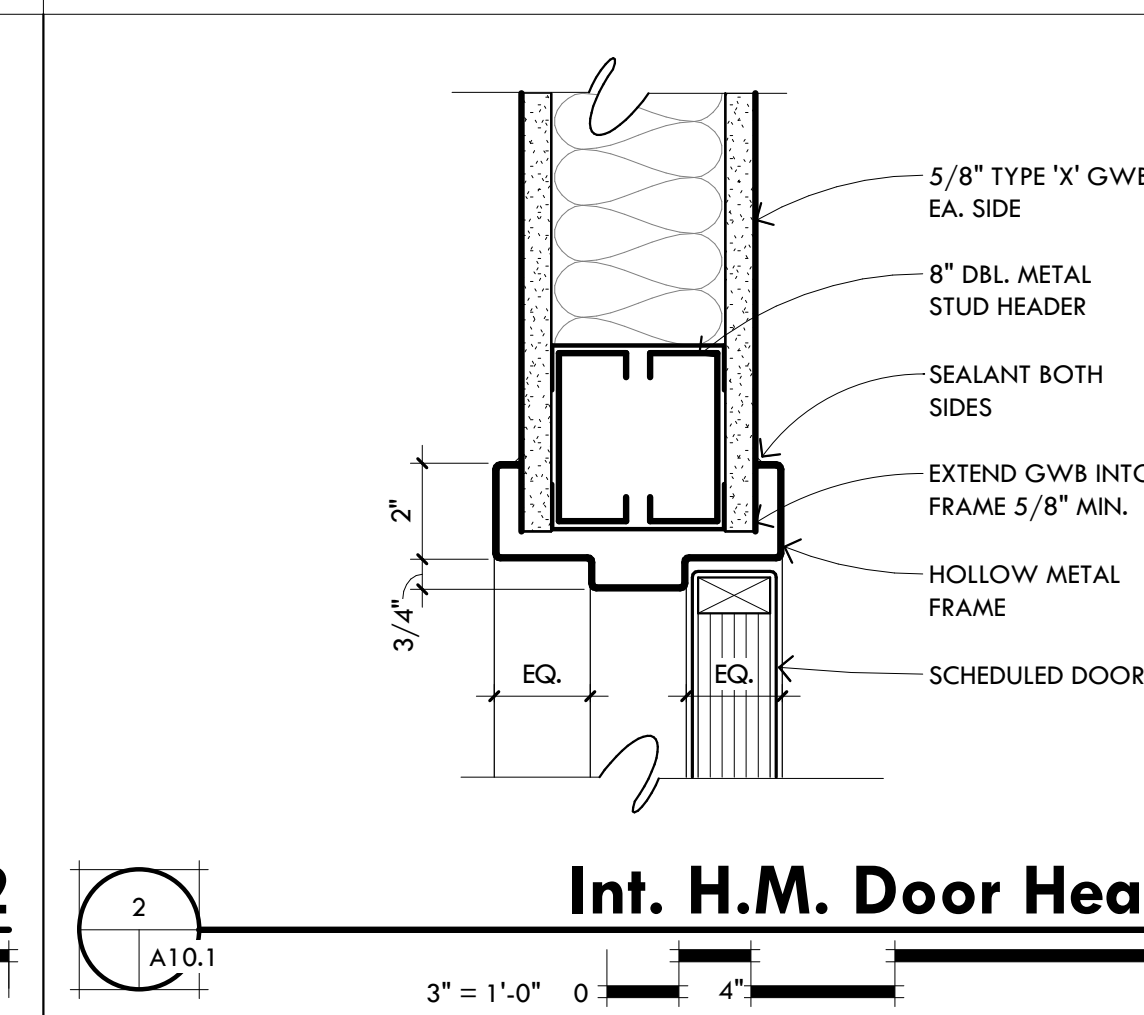
Window Head



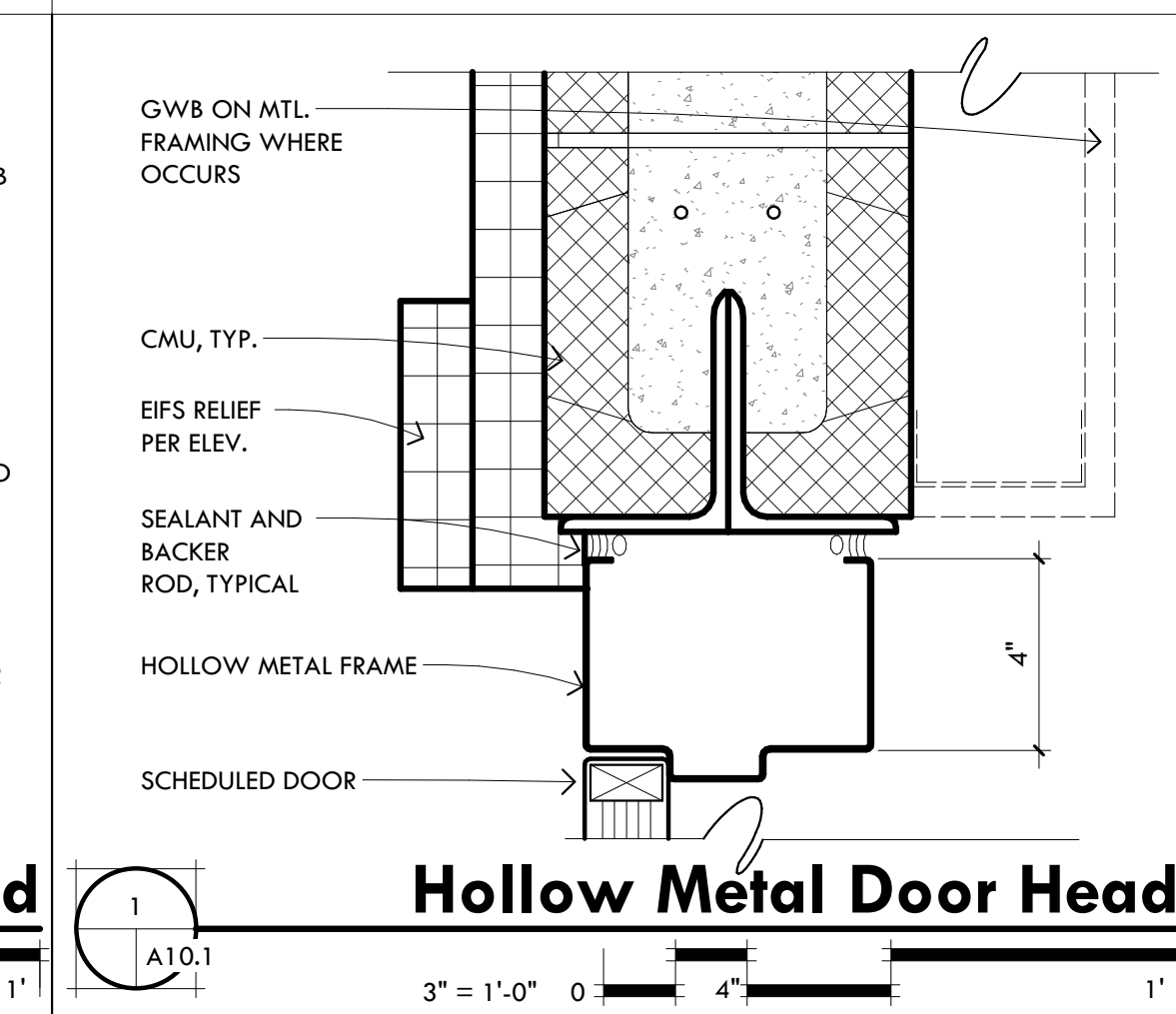
Hollow Metal Door Head 3



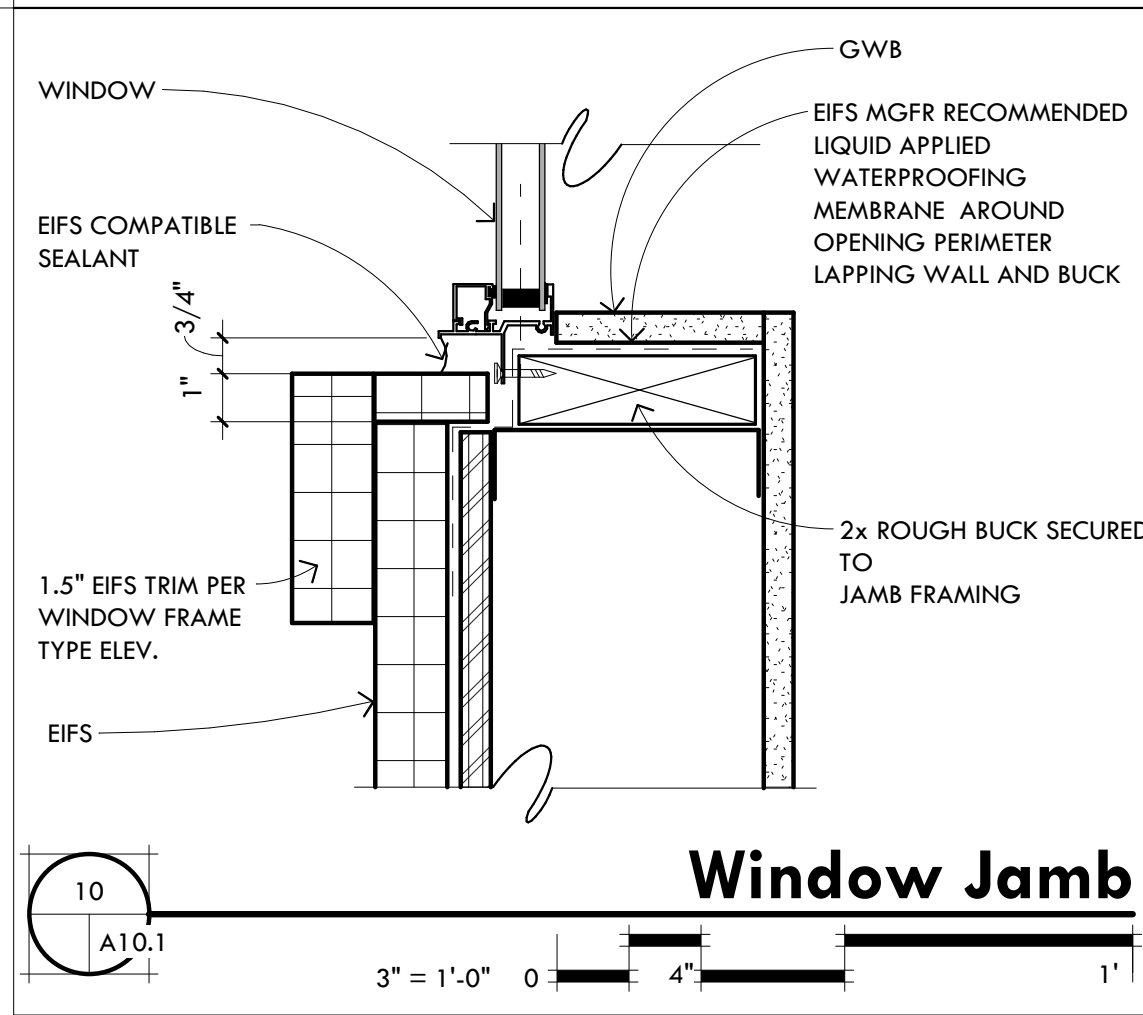
Hollow Metal Door Head 2



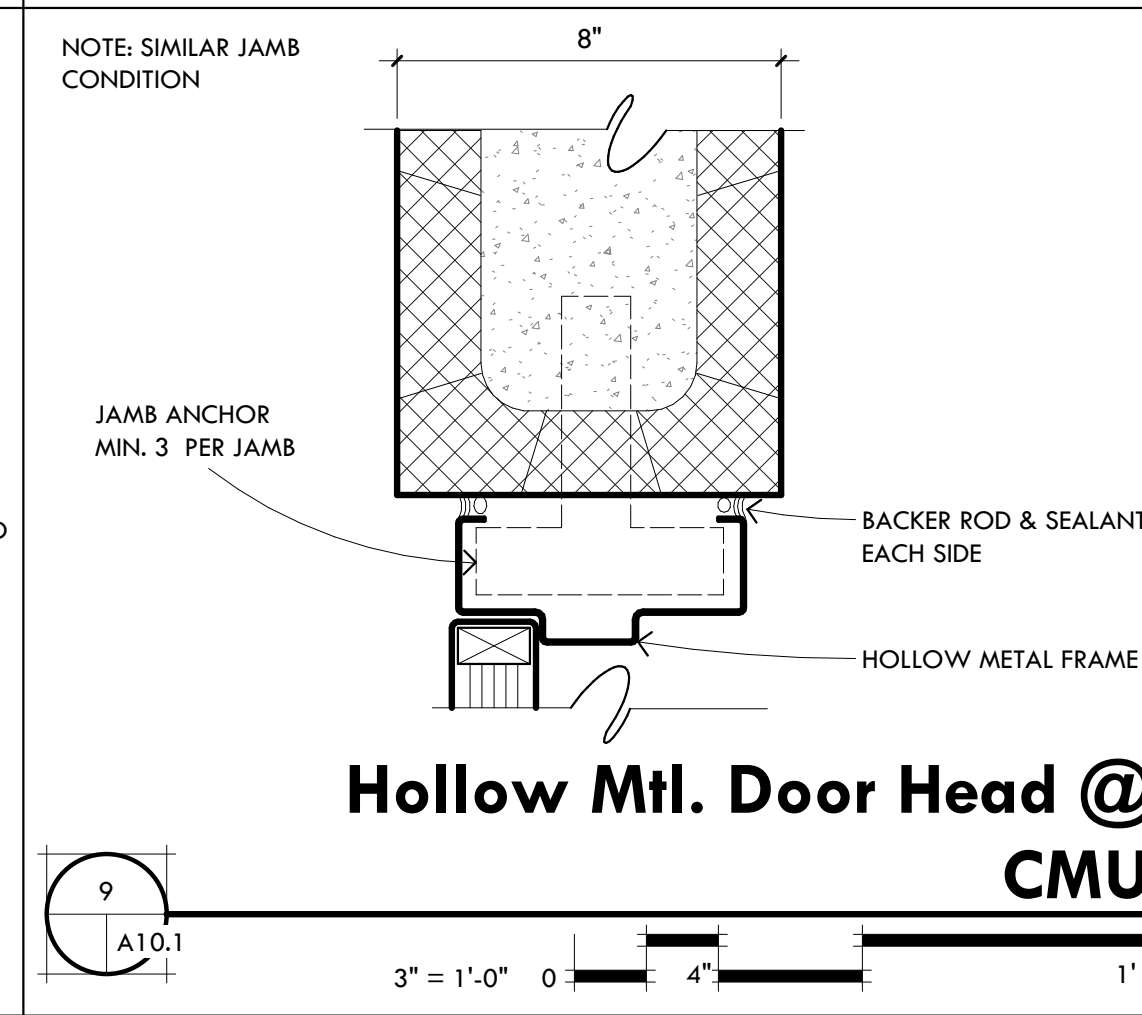
Int. H.M. Door Head



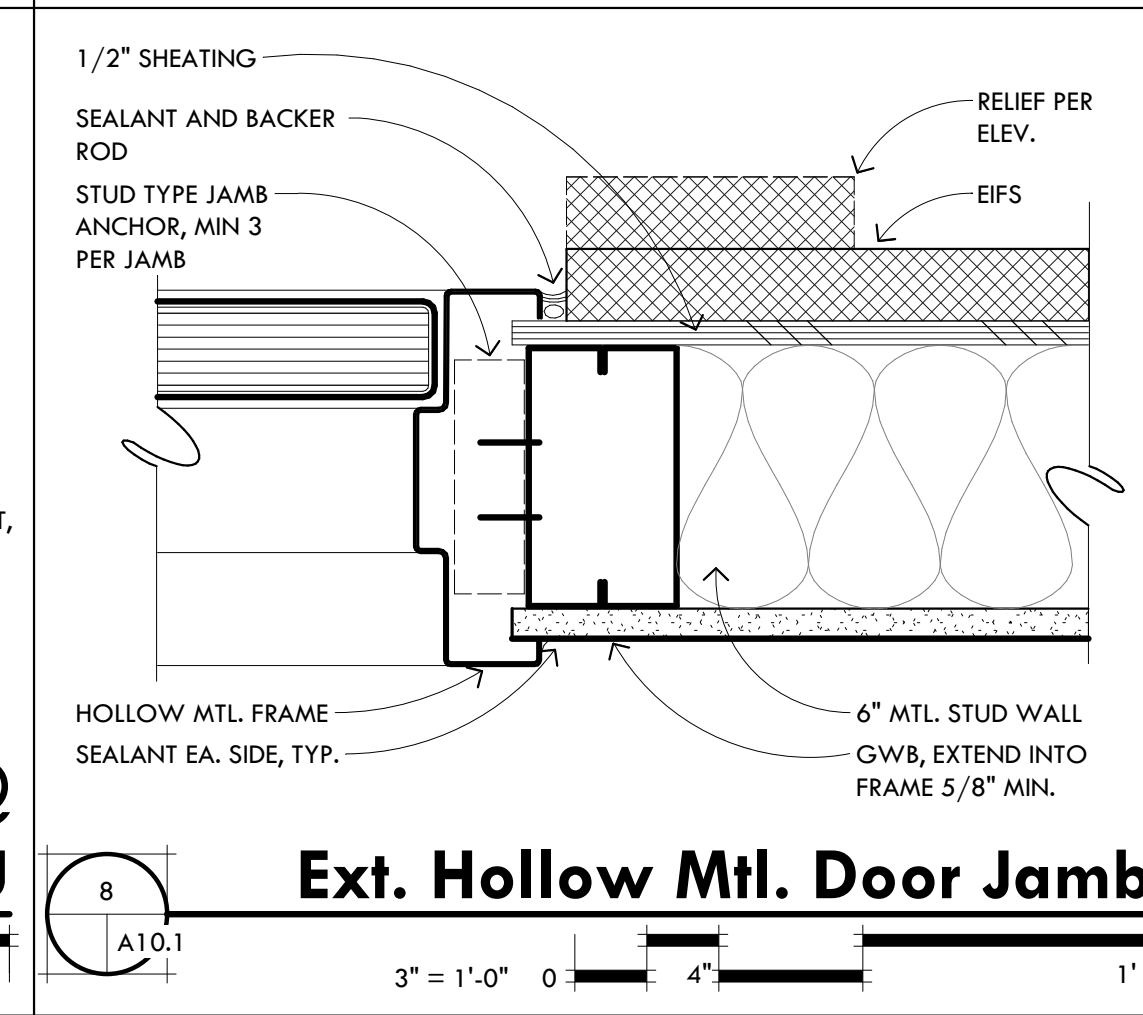
Hollow Metal Door Head



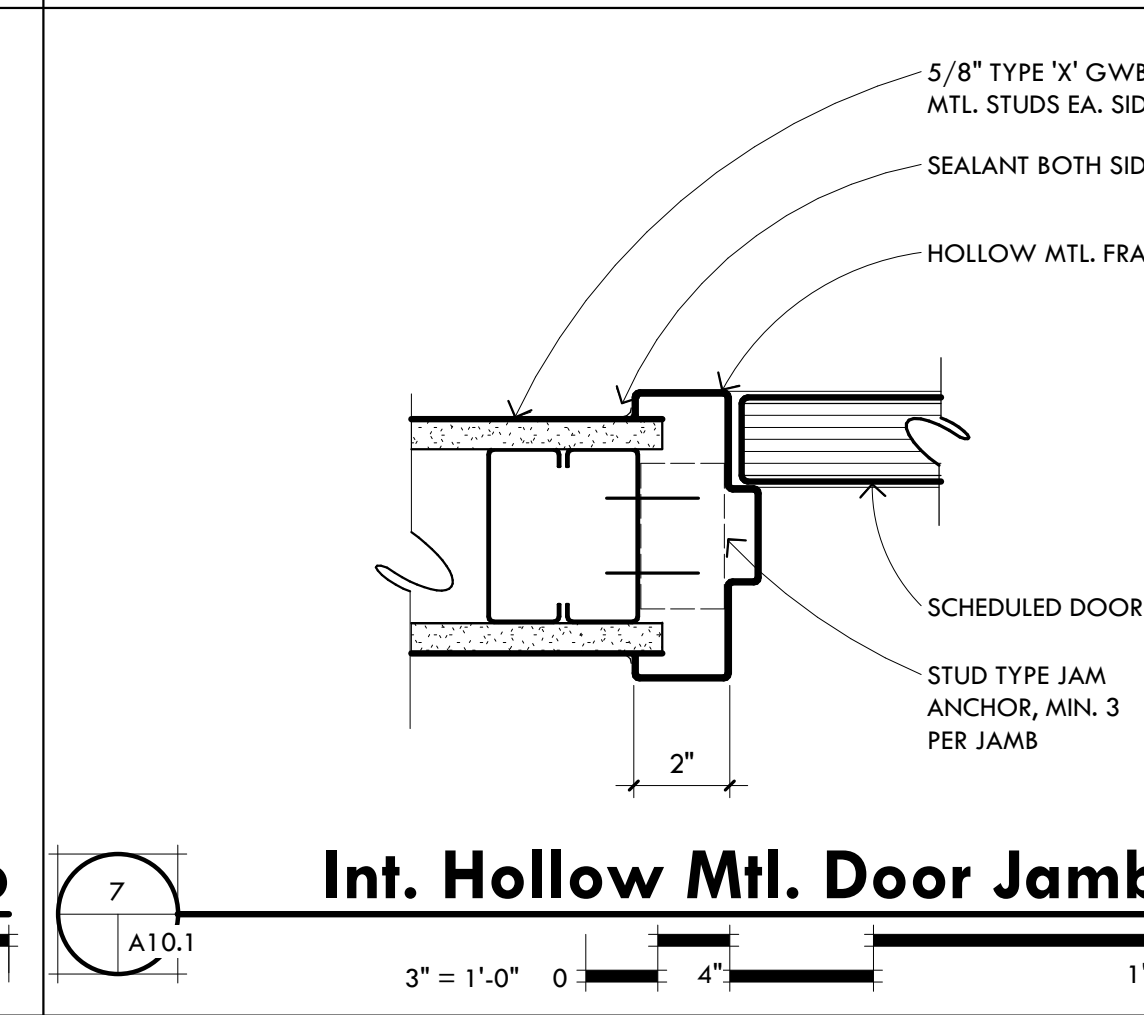
Window Jamb



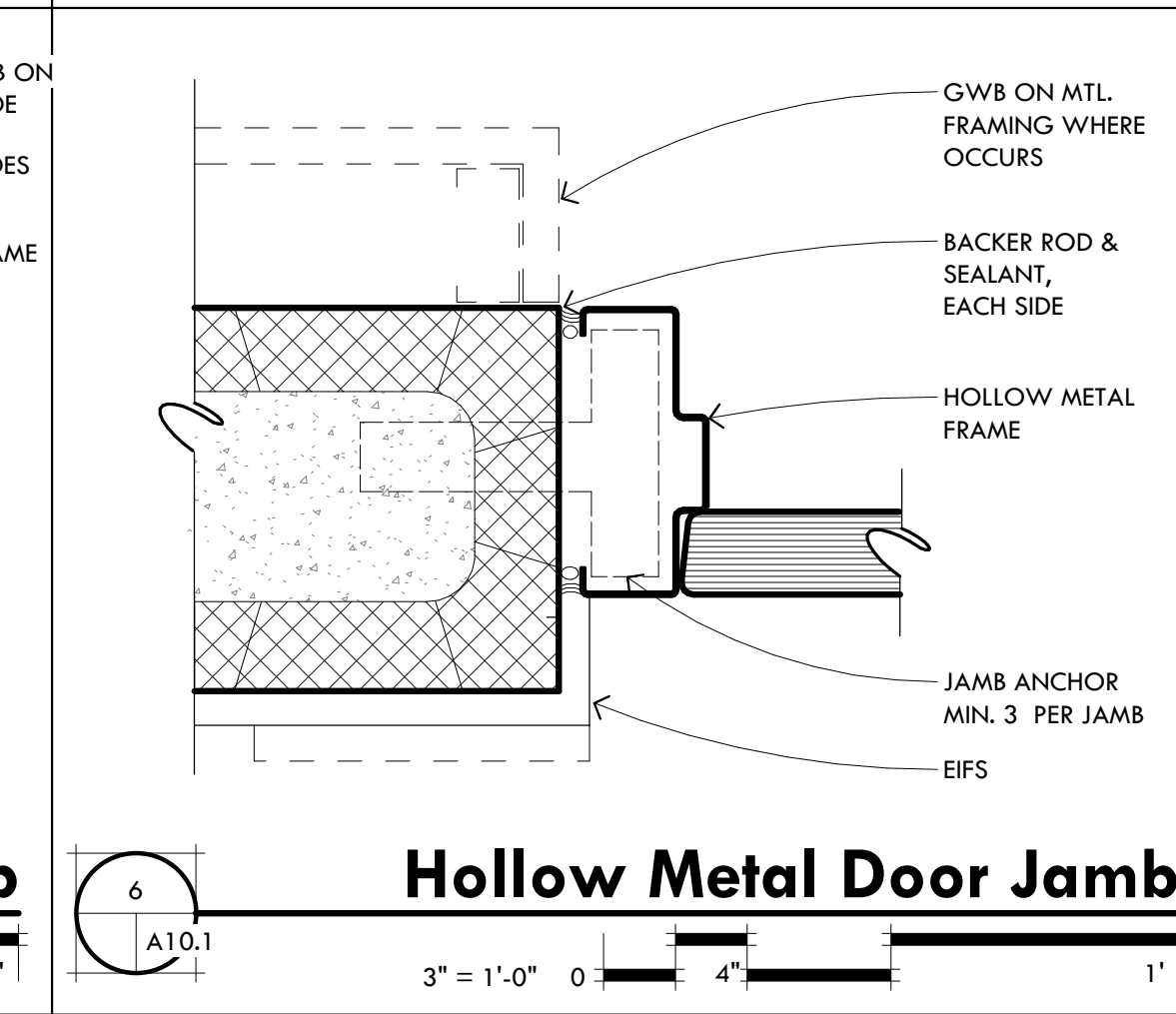
Hollow Mtl. Door Head @ CMU



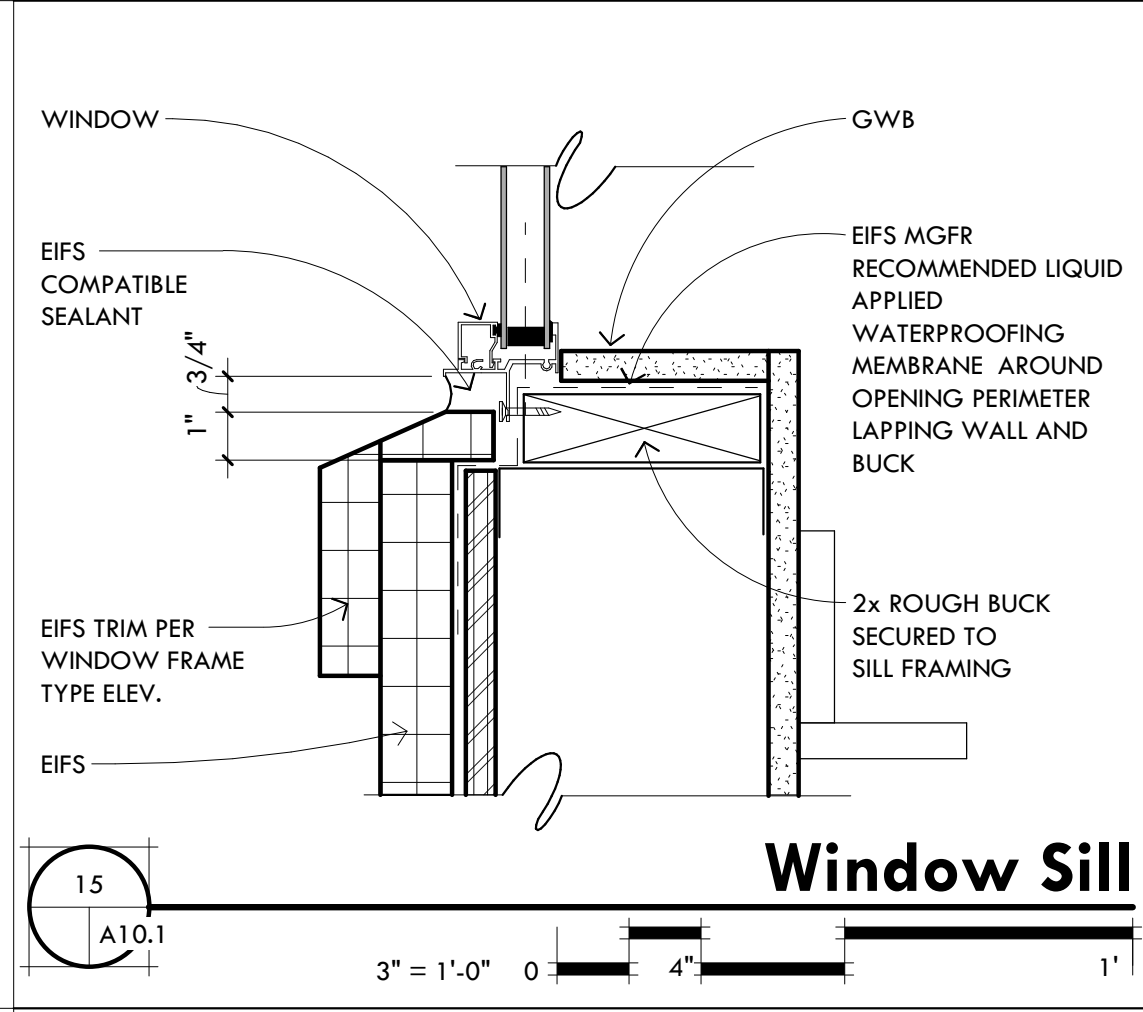
Ext. Hollow Mtl. Door Jamb



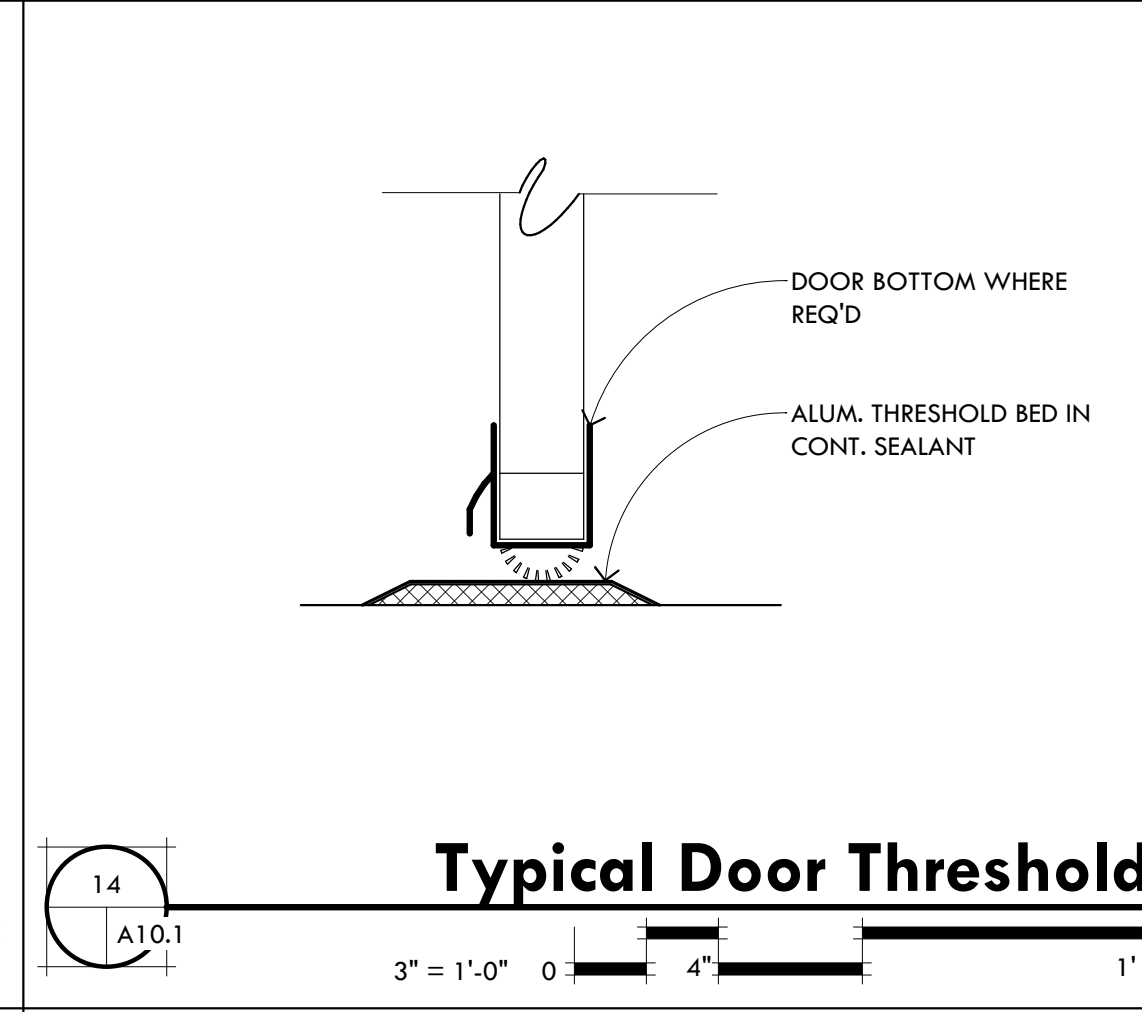
Int. Hollow Mtl. Door Jamb



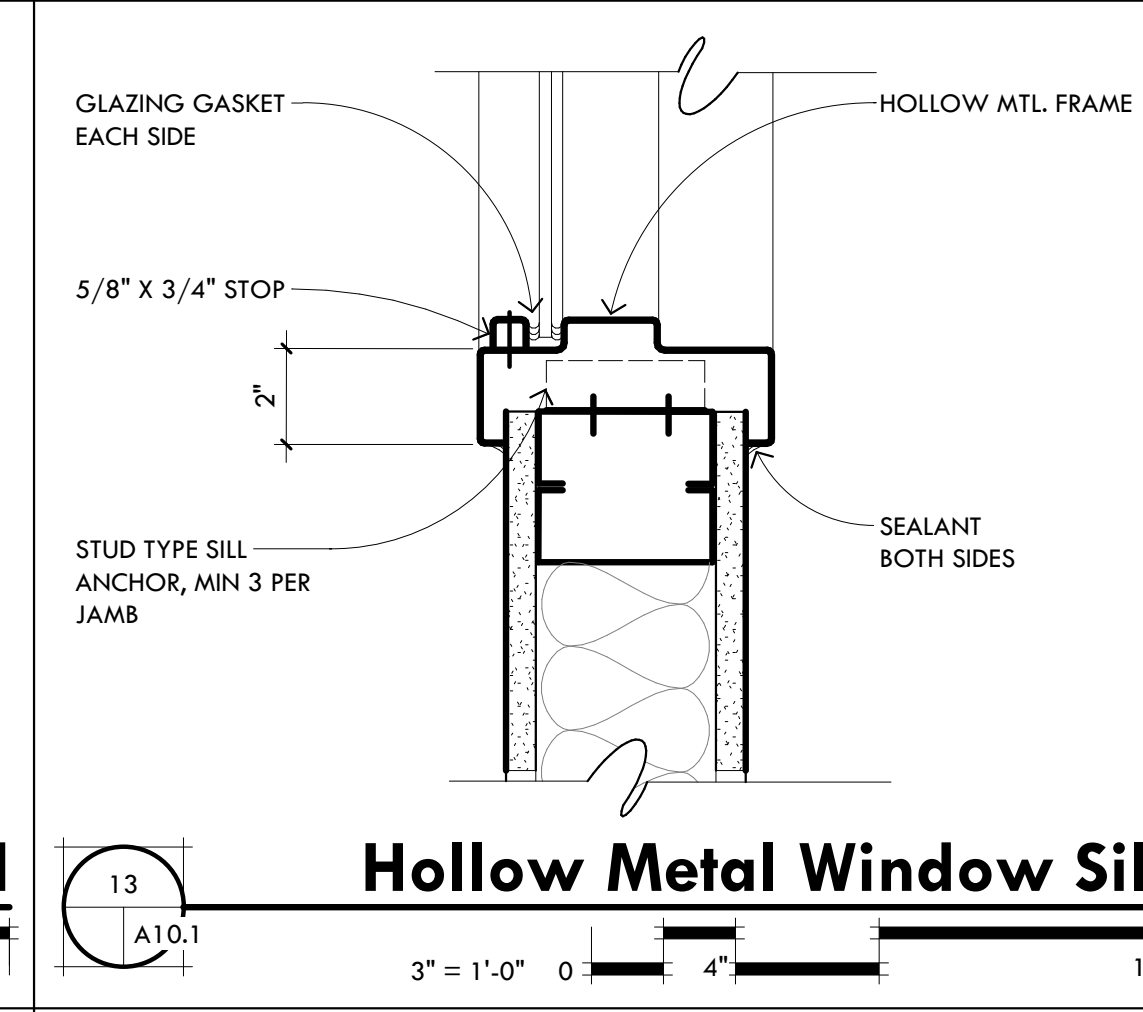
Hollow Metal Door Jamb



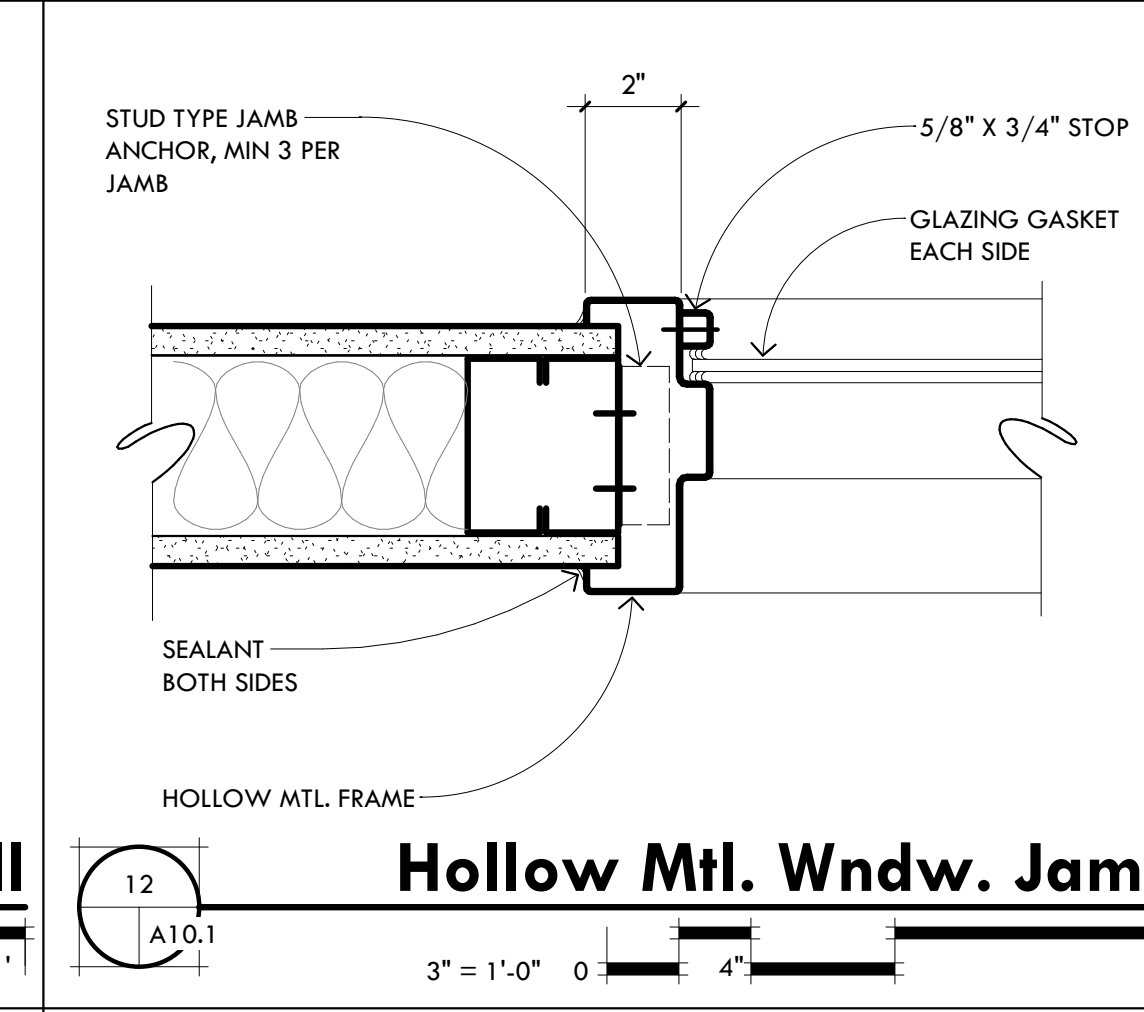
Window Sill



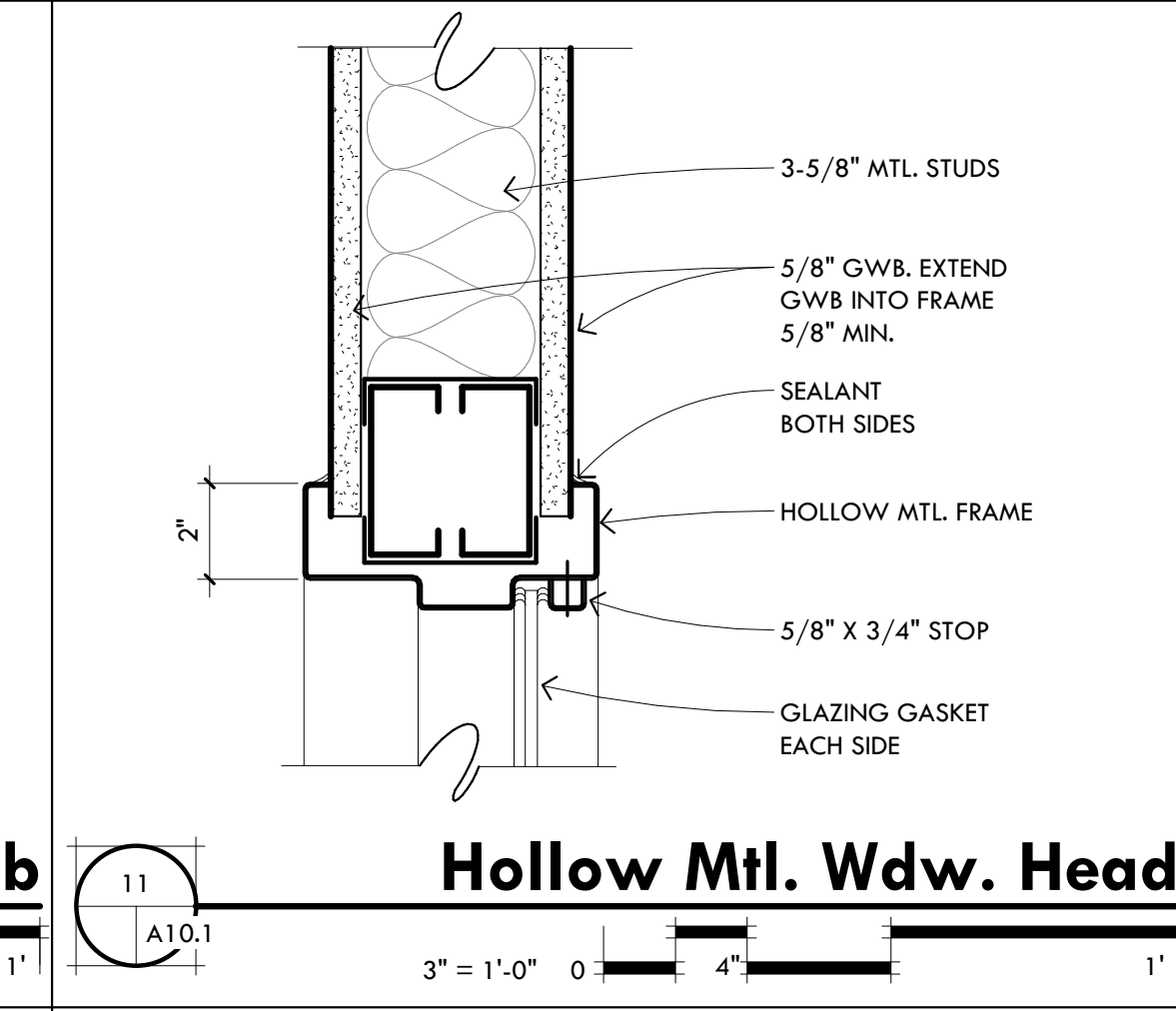
Typical Door Threshold



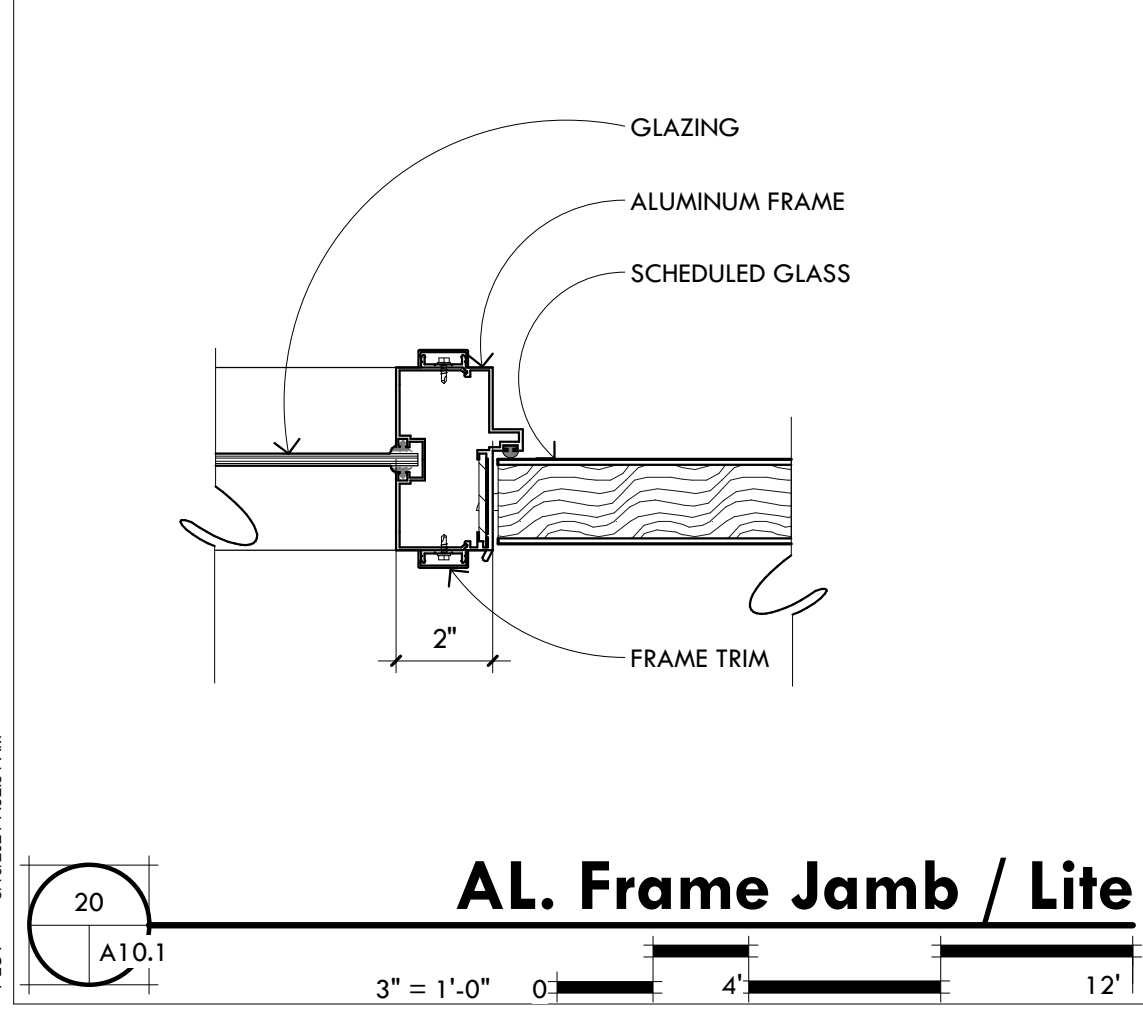
Hollow Metal Window Sill



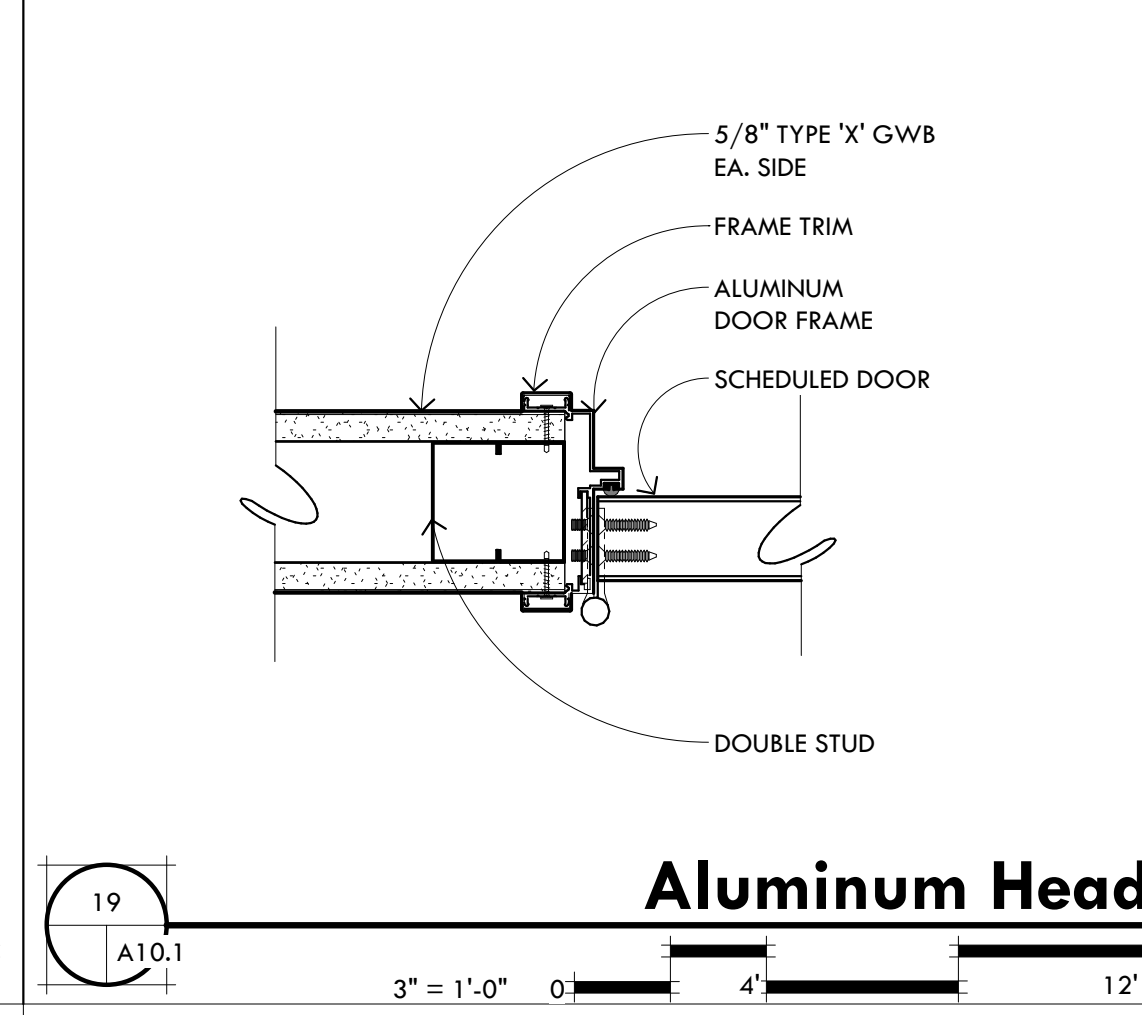
Hollow Mtl. Wndw. Jamb



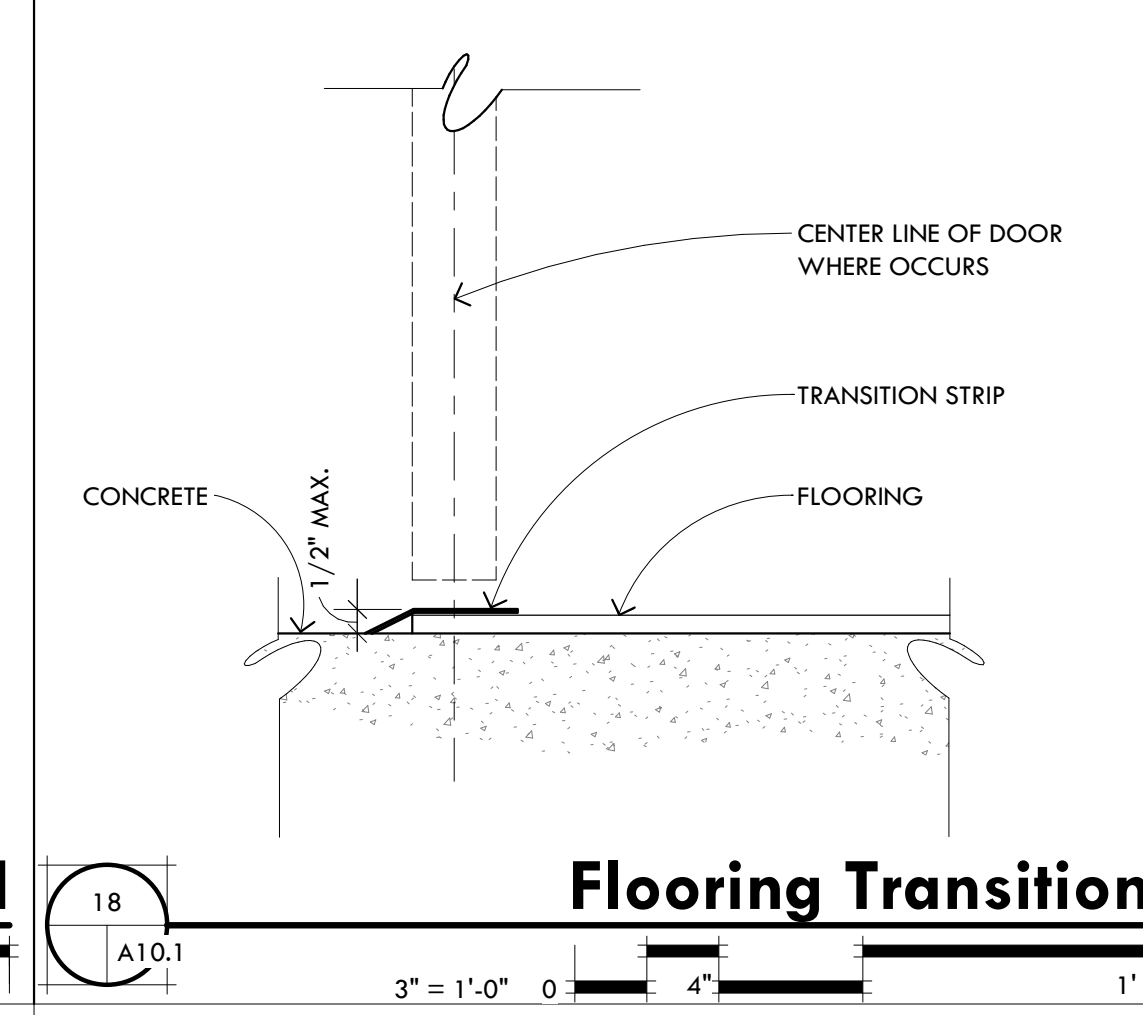
Hollow Mtl. Wdw. Head



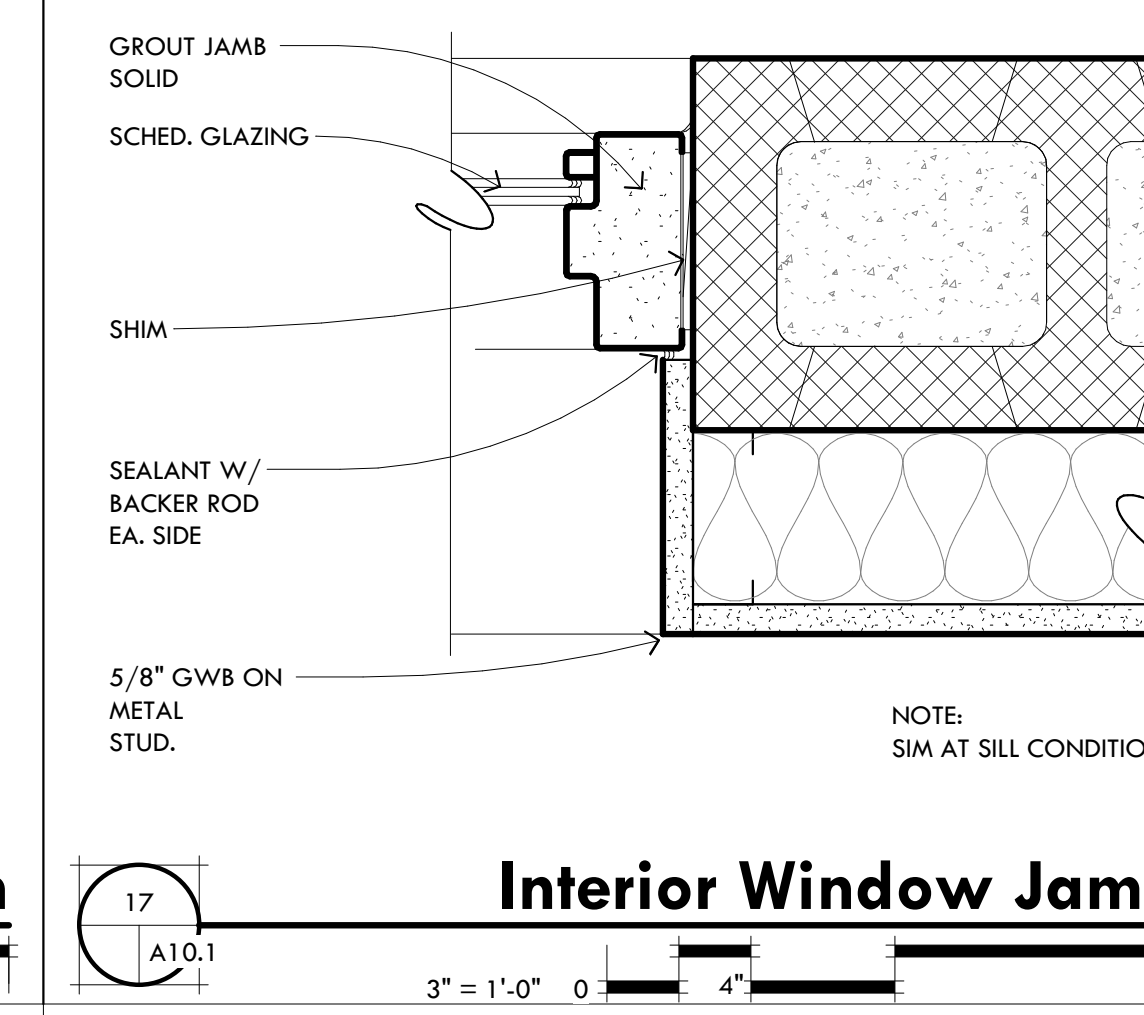
AL. Frame Jamb / Lite



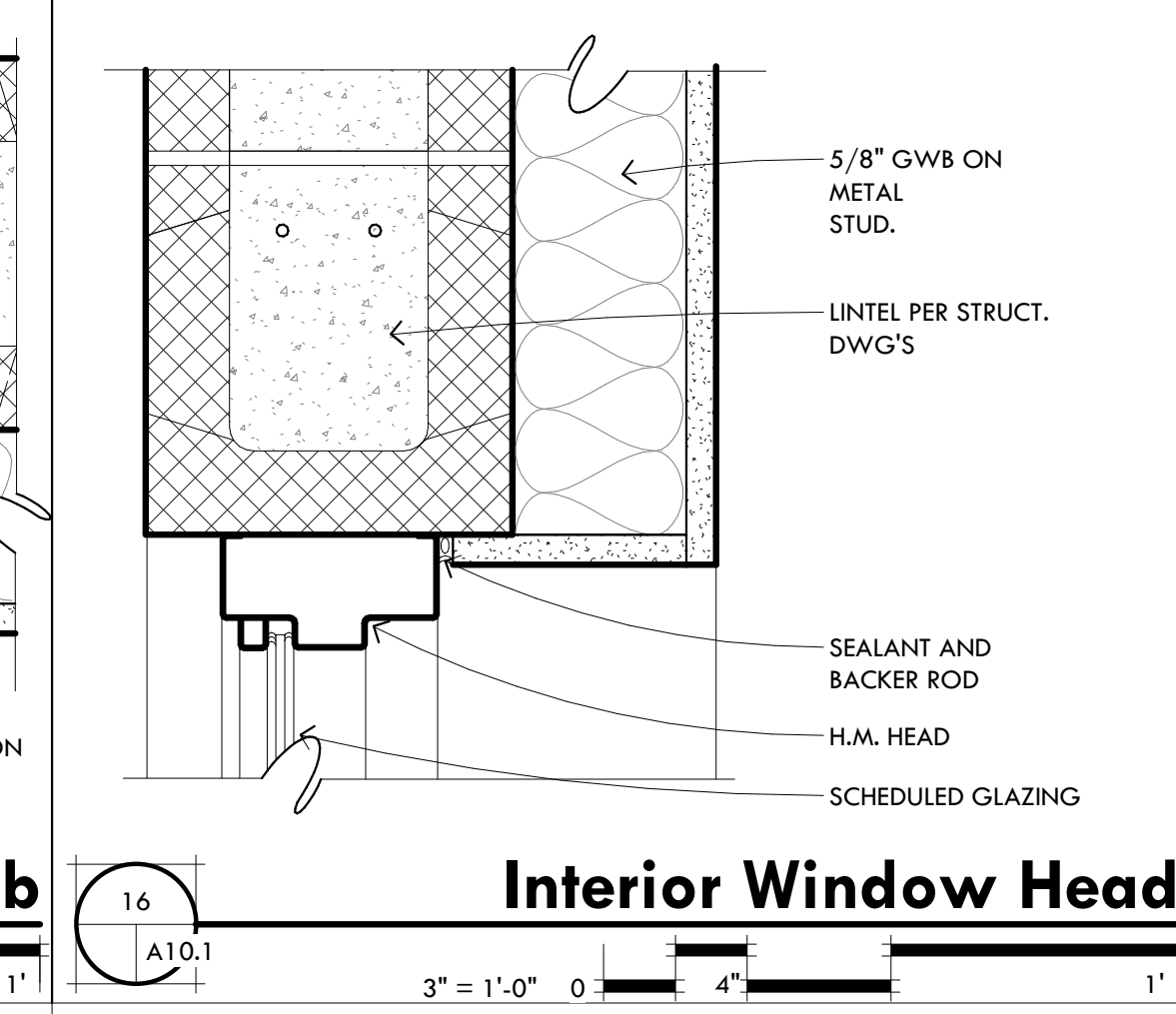
Aluminum Head



Flooring Transition



Interior Window Jamb



Interior Window Head

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Intermediate Plans

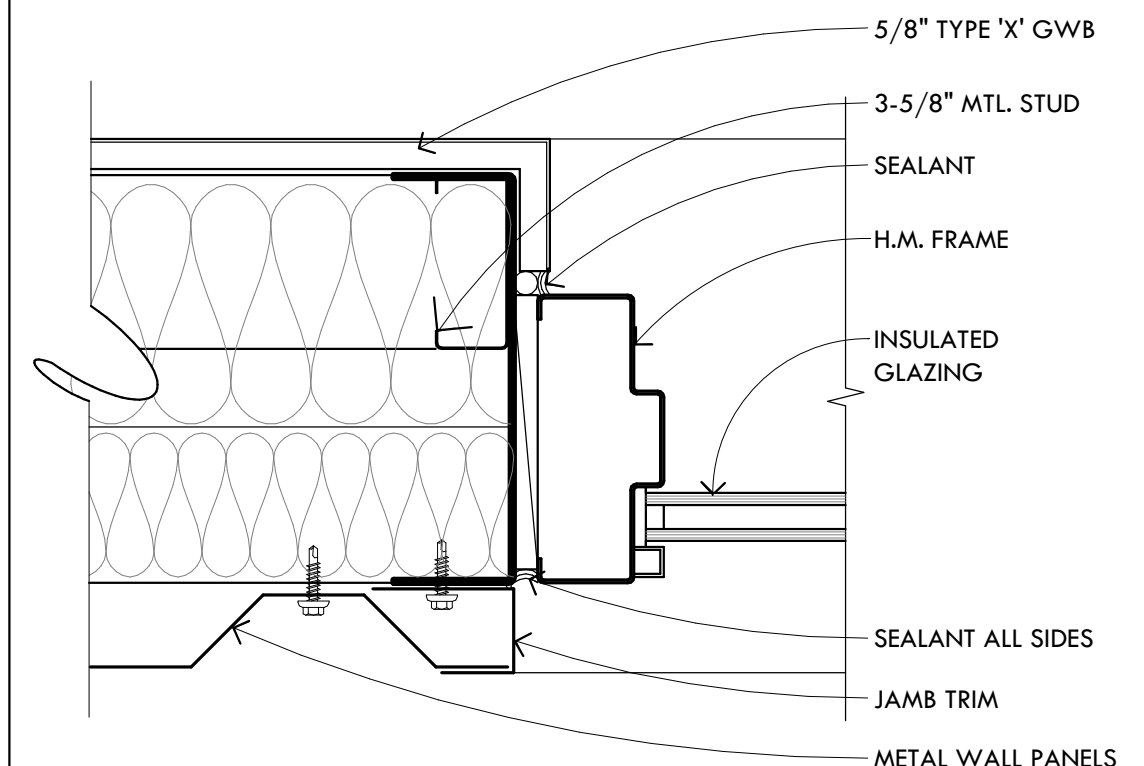
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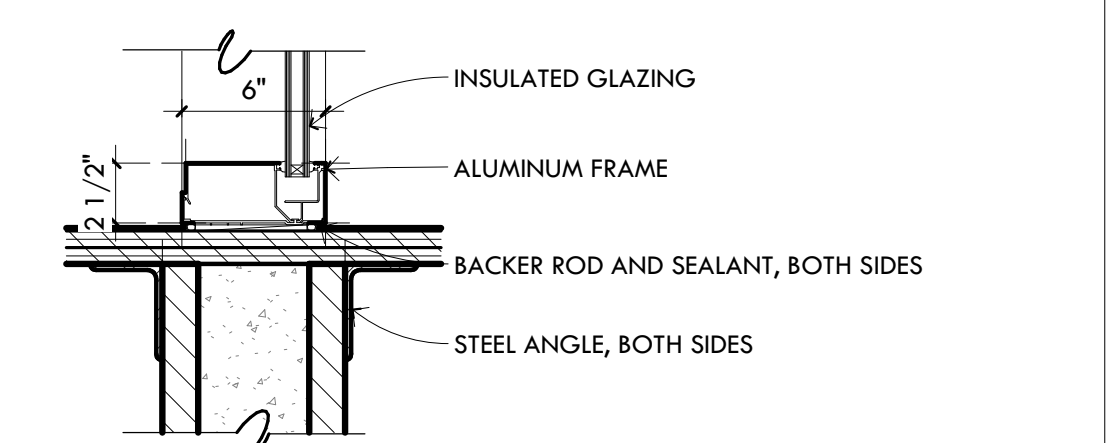
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Details
A10.1

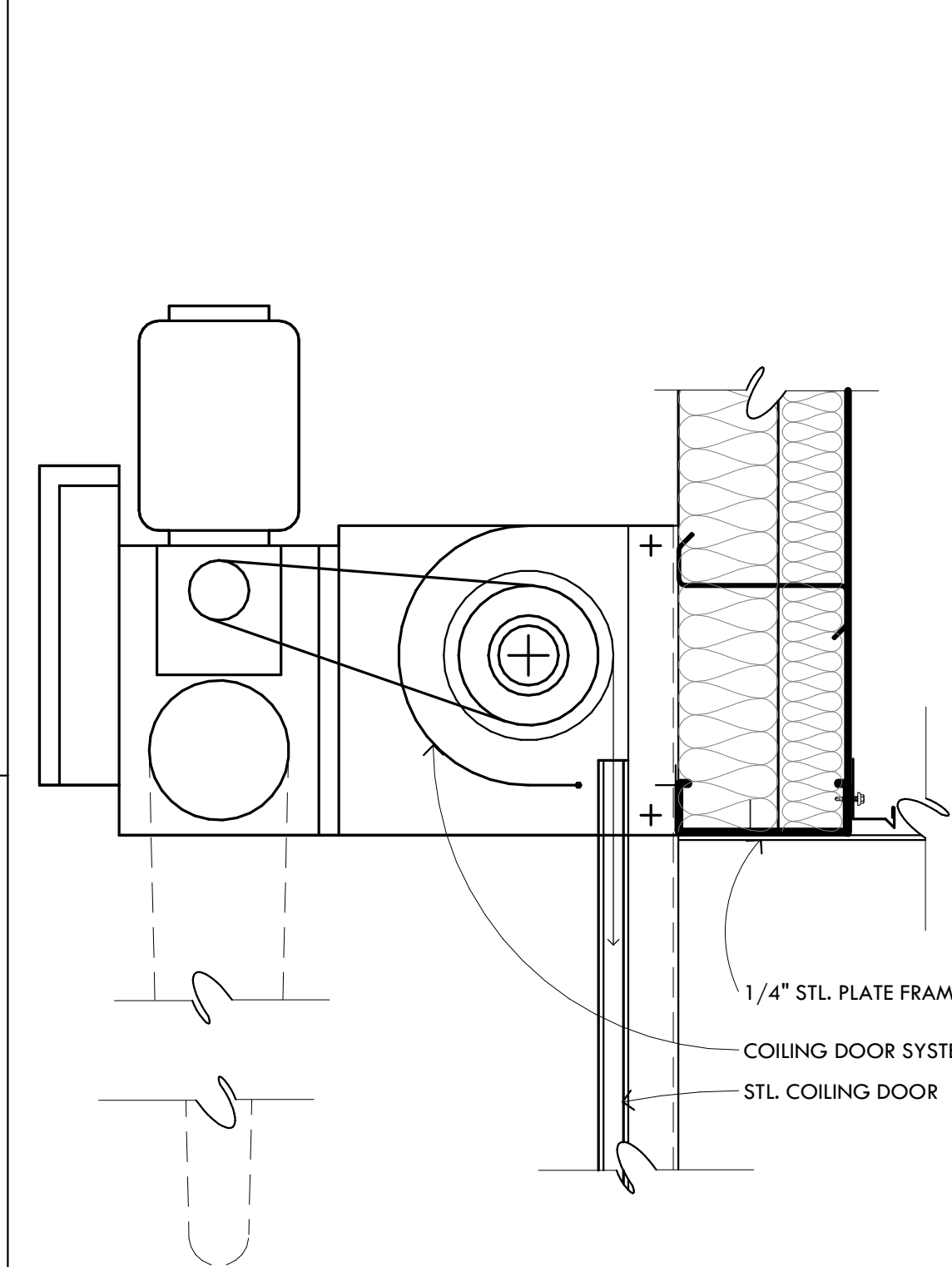
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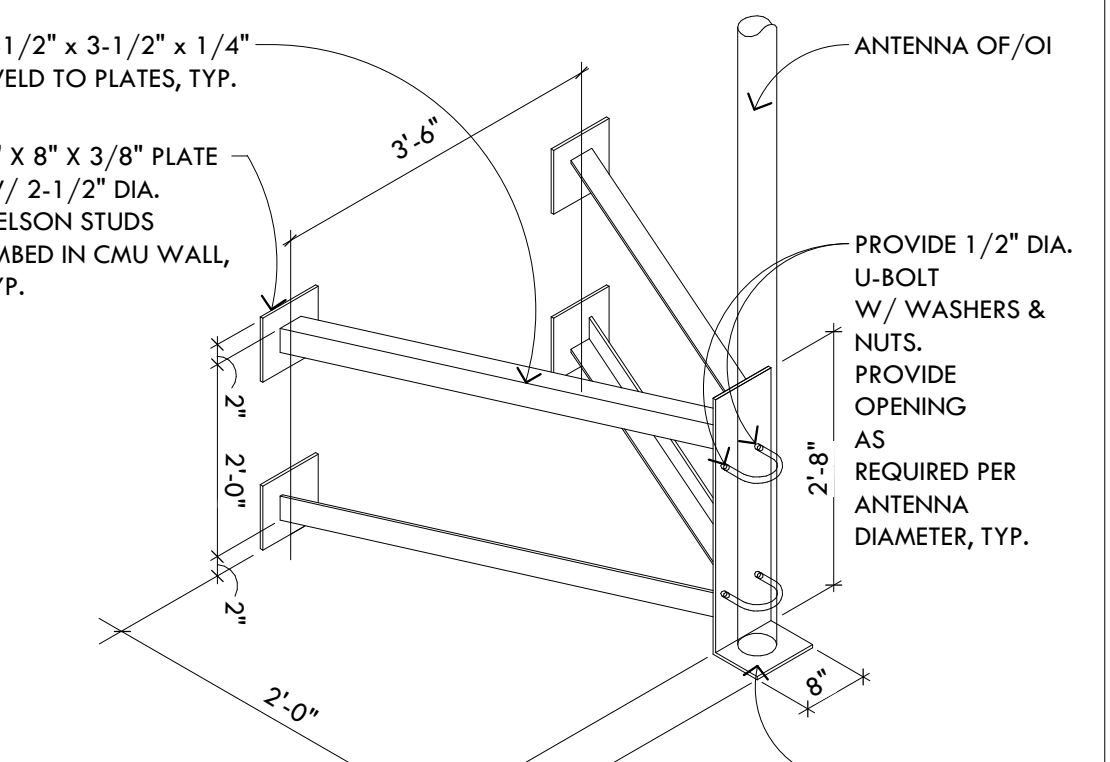
Aluminum Door Jam EXT.
 3" = 1'-0" 0 4' 12'



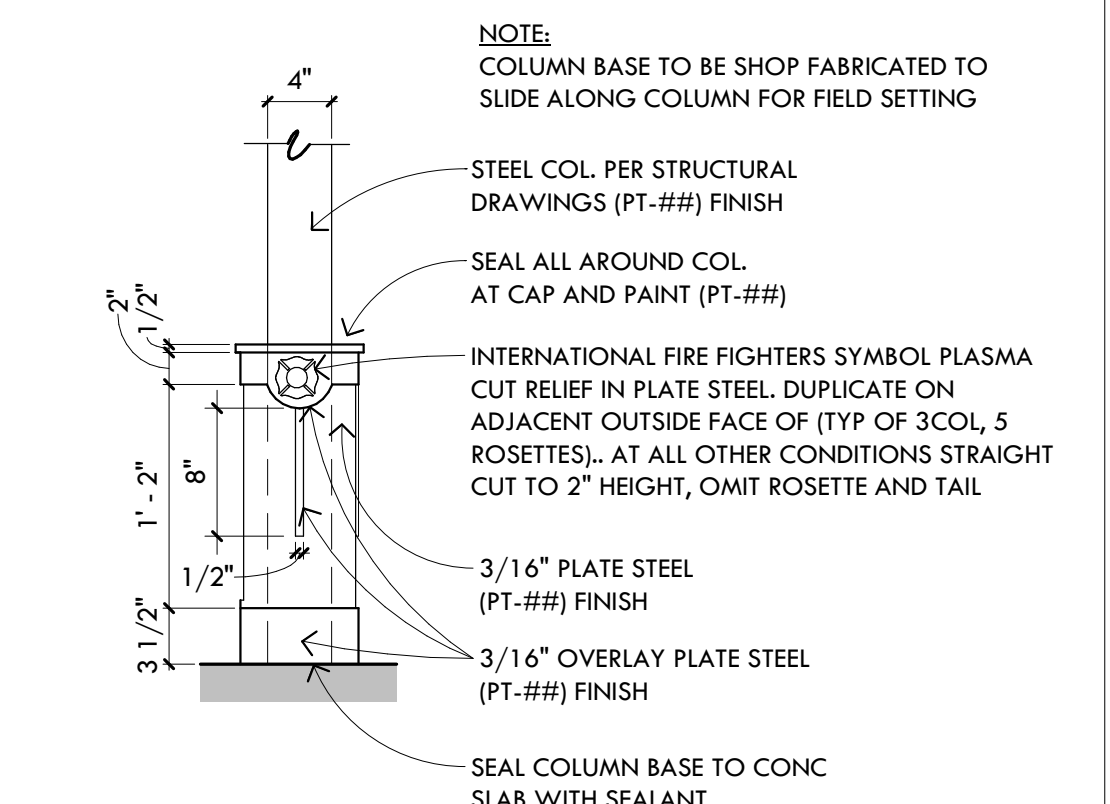
Aluminum Window Sill
 1 1/2" = 1'-0" 0 6" 2'



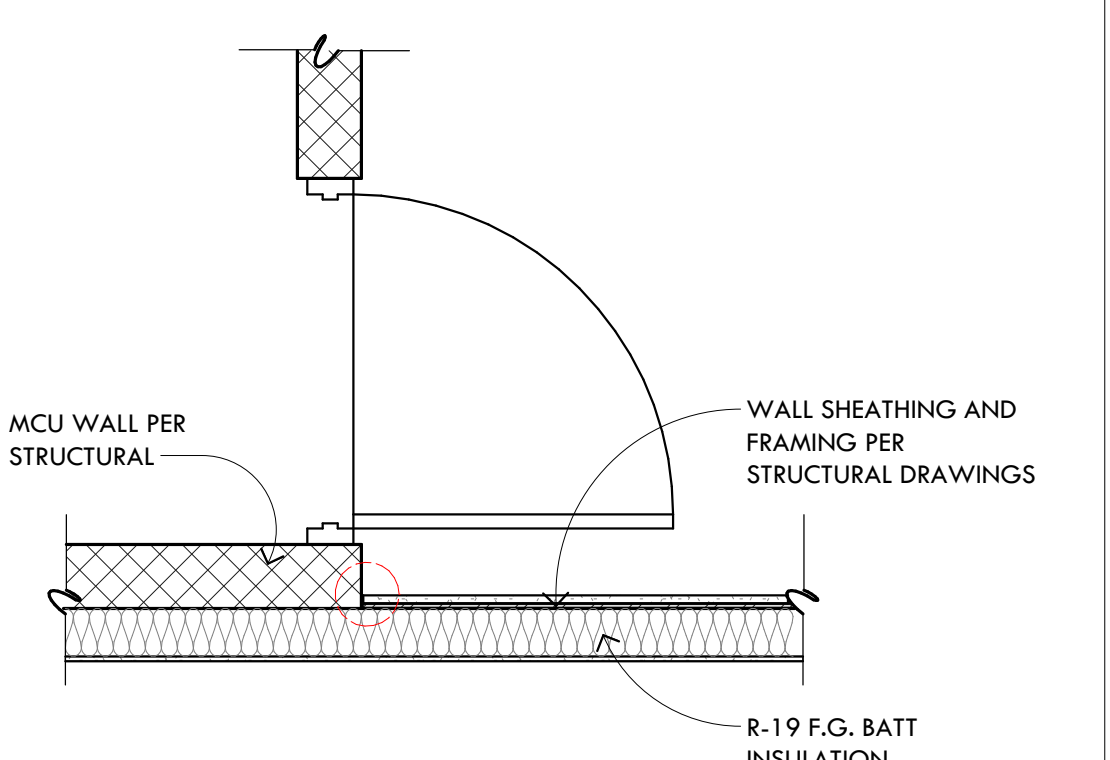
STL Coiling Door
 1 1/2" = 1'-0" 0 6" 2'



Antenna Support
 1/2" = 1'-0" 0 4' 12'



CD- Steel-Col Base FF
 1" = 1'-0" 0 4' 12'



CMU/EIFS Detail
 1/2" = 1'-0" 0 4' 12'

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Details

A10.2

STRUCTURAL NOTES

GENERAL STRUCTURAL NOTES:

- ALL CONSTRUCTION SHALL CONFORM TO THE INTERNATIONAL BUILDING CODE, 2018 EDITION, (IBC 2018).
- CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS AT JOB SITE BEFORE COMMENCING WORK & SHALL REPORT ANY DISCREPANCIES TO THE ARCHITECT.
- OMISSIONS OR CONFLICTS BETWEEN THE VARIOUS ELEMENTS OF THE DRAWINGS, NOTES, AND DETAILS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT & RESOLVED BEFORE PROCEEDING WITH THE WORK.
- DO NOT USE SCALED DIMENSIONS, USE WRITTEN DIMENSIONS OR WHERE NO DIMENSION IS PROVIDED, CONSULT WITH THE ARCHITECT FOR CLARIFICATION BEFORE PROCEEDING WITH THE WORK.
- DETAILS SHOWN SHALL BE INCORPORATED INTO THE PROJECT AT ALL APPROPRIATE LOCATIONS WHETHER SPECIFICALLY CALLED OUT OR NOT.
- TYPICAL DETAILS SHALL APPLY IN GENERAL CONSTRUCTION THROUGHOUT UNLESS DETAILED OTHERWISE ON DRAWINGS.
- WHERE NO DETAILS ARE GIVEN, CONSTRUCTION SHALL BE AS SHOWN FOR SIMILAR WORK, OR IF THERE IS NO SIMILAR WORK SHALL BE AS IS STANDARD IN THE INDUSTRY.
- REPRODUCTION OF ANY PORTION OF THE STRUCTURAL CONTRACT DOCUMENTS FOR SUBMITTAL AS SHOP DRAWINGS IS PROHIBITED. SHOP DRAWINGS PRODUCED IN SUCH A MANNER WILL BE REJECTED AND RETURNED.
- SEE ARCHITECTURAL DRAWINGS FOR THE FOLLOWING:
 - SIZE AND LOCATION OF ALL DOOR AND WINDOW OPENINGS
 - SIZE AND LOCATION OF ALL INTERIOR AND EXTERIOR NON-BEARING PARTITIONS.
 - SIZE AND LOCATION OF ALL CONCRETE CURBS; FLOOR AND ROOF DRAINS. SLOPES AND DEPRESSED AREAS; CHANGES IN LEVEL; CHAMFERS, CORNER FORMERS, GROOVES, BLOCKOUTS AND INSERTS; PAVING SITE WORK CURBS AND WALLS.
 - DIMENSIONS NOT SHOWN ON STRUCTURAL DRAWINGS.
 - SIZE AND LOCATION OF OPENINGS THRU ROOF AND FLOOR.
- SEE MECHANICAL, PLUMBING AND ELECTRICAL DRAWINGS FOR THE FOLLOWING:
 - WALL AND SLAB OPENINGS FOR MECHANICAL PIPE RUNS TRENCHES, FLOOR DRAINS, ROOF DRAINS, SUMPS, ETC.
 - WALL AND SLAB OPENINGS FOR ELECTRICAL CONDUIT RUNS, BOXES, JUNCTION BOXES IN WALLS, COLUMNS, SLABS, ETC.
 - SLEEVES, SLEEVE CLUSTERS AND BLOCKOUTS, AND CONCRETE INSERTS FOR EQUIPMENT AND FIXTURES.
 - SIZE AND LOCATION OF MACHINE, TRANSFORMER, SWITCHGEAR AND EQUIPMENT CURBS, BASES AND PADS, AND ANCHORS BOLTS FOR ANCHORED ITEMS.
 - SIZE AND LOCATION OF OPENINGS THRU ROOF AND FLOOR
- THE CONTRACT STRUCTURAL DRAWINGS AND SPECIFICATIONS REPRESENT THE FINISHED STRUCTURE. THEY DO NOT INDICATE THE METHOD OF CONSTRUCTION. THE CONTRACTOR SHALL PROVIDE ALL MEASURES NECESSARY TO PROTECT THE STRUCTURE DURING CONSTRUCTION FOR LOADS DUE TO CONSTRUCTION EQUIP., ETC.
- CONSTRUCTION MATERIALS SHALL BE SPREAD OUT IF PLACED ON FRAMED FLOORS OR ROOF. LOADS SHALL NOT EXCEED THE DESIGN LIVE LOAD PER SQUARE FOOT. PROVIDE ADEQUATE SHORING AND/OR BRACING WHERE STRUCTURE HAS NOT ATTAINED DESIGN STRENGTH AND AS REQUIRED FOR ERECTION.
- DEAD LOADS: (UNO ON LOADING PLANS)
 - A) FLOOR DEAD LOAD..... PSF
 - B) ROOF DEAD LOAD..... PSF
- LIVE LOADS:
 - A) FLOOR..... PSF
 - B) ROOF ALL BUILDING ROOFS (REDUCIBLE)..... PSF
- WIND LOADS:
 - A) BASIC WIND SPEED: MPH
 - B) RISK CATEGORY:
 - C) WIND EXPOSURE CATEGORY:
 - D) INTERNAL PRESSURE COEFFICIENT: $G_{Cpi} = \pm 0.18$
- EARTHQUAKE LOADS:
 - A) RISK CATEGORY.....
 - B) MAPPED SPECTRAL RESPONSE ACCELERATIONS: S_s = S₁ = SPECTRAL ACCELERATIONS FOR SHORT PERIODS: SPECTRAL ACCELERATIONS FOR 1 SECOND PERIODS:
 - C) SITE CLASS:.....
 - D) SPECTRAL RESPONSE COEFFICIENT: S_{DS} = S_{D1} =
 - E) SEISMIC DESIGN CATEGORY:.....
 - F) BASIC SEISMIC FORCE RESISTING SYSTEM:
 - G) SEISMIC RESPONSE COEFFICIENT: C_s =
 - H) DESIGN BASE SHEAR: V =
 - I) RESPONSE MODIFICATION FACTOR: R =
 - J) ANALYSIS PROCEDURE USED: EQUIVALENT LATERAL-FORCE

FOUNDATION NOTES:

- FOUNDATION DESIGN BASED UPON THE FOLLOWING:
 - GEOTECHNICAL REPORT BY: _____
 - FILE NO. _____
 - DATED: _____
 - ALLOWABLE SOIL PRESSURE: _____
 - MIN. FTG. DEPTH BELOW _____
 - LOWEST ADJACENT GRADE: _____ AT EXTERIOR FOOTINGS
_____ AT INTERIOR FOOTINGS
- REFER GEOTECHNICAL REPORT AND DIVISION 31 OF THE SPECIFICATIONS FOR DETAILS OF EARTHWORK REQUIREMENTS.
- CONTRACTOR SHALL PROVIDE FOR PROPER DE-WATERING OF EXCAVATIONS FROM SURFACE WATER, GROUND WATER, SEEPAGE, ETC.
- ALL EXCAVATION SHALL BE PROPERLY BACKFILLED. SEE SPECIFICATIONS FOR QUALITY AND EXTENT OF BACKFILL MATERIAL. DO NOT PLACE BACKFILL BEHIND RETAINING WALLS BEFORE CONCRETE HAS ATTAINED FULL DESIGN STRENGTH. CONTRACTOR SHALL BRACE OR PROTECT ALL BUILDING AND PIT WALL BELOW GRADE FROM LATERAL LOADS UNTIL ATTACHING FLOORS ARE COMPLETELY IN PLACE AND HAVE ATTAINED FULL STRENGTH. CONTRACTOR SHALL PROVIDE FOR DESIGN, PERMITS AND INSTALLATION OF SUCH BRACING.
- ALL ABANDONED FOOTINGS, UTILITIES, ETC. THAT INTERFERE WITH NEW CONSTRUCTION SHALL BE REMOVED.
- ALL SOIL FILL AND BACKFILL SUPPORTING FOUNDATIONS AND SLABS ON GRADE SHALL BE PLACED AS ENGINEERED FILL.

CONCRETE:

- ALL PHASES OF WORK PERTAINING TO THE CONCRETE CONSTRUCTION SHALL CONFORM TO THE "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE" (ACI 318) AND THE "SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS" (ACI 301) LATEST APPROVED EDITIONS, WITH MODIFICATIONS AS NOTED IN THE DRAWINGS OR SPECIFICATIONS.
- SCHEDULE OF STRUCTURAL CONCRETE 28-DAY DESIGN STRENGTHS:

LOCATION IN STRUCTURE	STRENGTH
FOUNDATIONS/FOOTINGS	3,000
SLABS-ON-GRADE	4,000
ALL OTHER CONCRETE	3,000
- ALL REINFORCING BARS AND DOWELS, 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. DO NOT CUT ANY REINFORCING WHICH MAY CONFLICT. CORING IN CONCRETE IS NOT PERMITTED EXCEPT AS SHOWN. NOTIFY THE ARCHITECT IN ADVANCE OF CONDITIONS NOT SHOWN ON THE DRAWINGS.
- PROJECTING EXPOSED CORNERS OF BEAMS, COLUMNS, WALLS, ETC., SHALL BE FORMED WITH A 3/4" CHAMFER U.N.O. ON ARCHITECTURAL DRAWINGS.
- OPENINGS, POCKETS, ETC. SHALL NOT BE PLACED IN CONCRETE SLABS, DECKS, BEAMS, JOISTS, COLUMNS, WALLS, ETC. UNLESS SPECIFICALLY DETAILED ON THE STRUCTURAL DRAWINGS. NOTIFY THE STRUCTURAL ENGINEER WHEN DRAWINGS BY OTHERS SHOW OPENINGS, POCKETS, ETC. NOT SHOWN ON THE STRUCTURAL DRAWINGS, BUT WHICH ARE LOCATED IN STRUCTURAL MEMBERS.
- PROVIDE 1/2" PREFORMED JOINT FILLER WHERE EXTERIOR SLAB ABUTS VERTICAL SURFACES, TYP. U.N.O.
- CLEAR COVERAGE OF CONCRETE OVER OUTER REINFORCING BARS SHALL BE AS FOLLOWS UNLESS SPECIFICALLY DETAILED OTHERWISE:

	MIN COVER, INCHES
CONCRETE CAST AGAINST EARTH	3
FORMED CONCRETE EXPOSED TO EARTH OR WEATHER: <ul style="list-style-type: none"> #6 AND LARGER BARS #5 AND SMALLER BARS 	2
SLABS-ON-GRADE	2 INCHES CLR TO TOP OF SLAB, UNO
STRUCTURAL SLABS	1
BEAMS, COLUMNS, PRIMARY REINF, TIES, STIRRUPS	1 1/2

MASONRY:

- DESIGN COMPRESSIVE STRENGTH $F_m = 2000$ PSI MIN.
- CONCRETE BLOCK SHALL BE NORMAL WEIGHT HOLLOW CONC. MASONRY UNITS CONFORMING TO ASTM C90, GRADE N. $F_m = 1900$ PSI ON NET AREA.
- PORTLAND CEMENT: ASTM C150, TYPE II.
- MORTAR MIX SHALL CONFORM TO REQUIREMENTS OF ASTM C270 PROPORTION SPECIFICATIONS, THE IBC, AND PROJECT SPECIFICATIONS.
- GROUT SHALL CONFORM TO THE REQUIREMENTS OF ASTM C476 AND THE IBC FOR FINE AND COURSE GROUT. GROUT SHALL BE PROPORTIONED PER TABLE 1 OF STM C476. USE SUFFICIENT WATER FOR GROUT TO FLOW INTO THE MASONRY WITHOUT SEGREGATION. GROUT SHALL ATTAIN COMPRESSIVE STRENGTH OF 2,000 PSI AT 28 DAYS.
- PROVIDE A MINIMUM OF (1) BAR DIA. GROUT BETWEEN MAIN REINFORCING AND MASONRY UNITS.
- ALL CELLS CONTAINING REINFORCING SHALL BE GROUTED SOLID.
- SOLID GROUT ALL MASONRY BELOW GRADE.
- HORIZONTAL JOINT REINFORCEMENT SHALL BE AS FOLLOWS: GALVANIZED CARBON STEEL WELDED WIRE UNITS, LADDER OR TRUSS DESIGN, PREFABRICATED WITH DEFORMED CONTINUOUS SIDE RODS, WITH A MINIMUM STRAIGHT LENGTH OF 10'-0" AND PREFABRICATED CORNER AND TEE UNITS. WIRE DIAMETER FOR SIDE AND CROSS RODS SHALL BE 0.1483 INCH (9 GAGE), SIDE RODS SHALL BE LAPPED 6" MIN. AT SPLICES, SPACE AT 16" O.C., U.N.O.
- FACING BRICK SHALL CONFORM TO ASTM C216, GRADE SW.

REINFORCING STEEL:

- ALL REINFORCING STEEL SHALL BE DETAILED AND PLACED IN CONFORMANCE WITH THE "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE" (ACI 318 LATEST APPROVED EDITION), AND THE "MANUAL OF STANDARD PRACTICE FOR REINFORCED CONCRETE CONSTRUCTION" (LATEST APPROVED EDITION) BY THE C.R.S.I., AS MODIFIED BY THE DRAWINGS AND SPECIFICATIONS.
- REINFORCING BARS SHALL CONFORM TO THE REQUIREMENTS OF ASTM A-615, GRADE 60 FOR ALL BARS. WHERE REINFORCING IS INDICATED TO BE WELDED, PROVIDE REINFORCING CONFORMING TO THE REQUIREMENTS OF ASTM A706.
- DOWELS BETWEEN FOOTINGS AND WALLS OF COLUMNS SHALL BE THE SAME GRADE, SIZE, SPACING AND NUMBER AS THE VERTICAL REINFORCING ABOVE.
- REINFORCING BAR SPLICES SHALL BE MADE ONLY WHERE INDICATED ON THE DRAWINGS. THE MINIMUM SPLICE LAP LENGTH SHALL BE AS FOLLOWS:
 - MIN. LAP SPLICE IN CONCRETE: REFER TO DETAIL
 - MIN. LAP SPLICE IN MASONRY: REFER TO DETAIL
 - UNLESS SHOWN OTHERWISE ON THE DRAWINGS, SPLICE BARS SHALL BE PLACED AT THE SAME EFFECTIVE DEPTH U.N.O.. REINFORCING BARS MARKED "CONT." OR WITH LENGTH NOT SHOWN SHALL BE FULLY CONTINUOUS AND SPLICED ONLY AS SHOWN.
- ALL REINFORCING BAR BENDS AND HOOKS SHALL BE STANDARD ACI BENDS AND HOOKS UNLESS SPECIFICALLY NOTED OTHERWISE ON STRUCTURAL DRAWINGS.
- WELDED WIRE FABRIC SHALL CONFORM TO ASTM A1064. MINIMUM LAP OF WELDED WIRE FABRIC SHALL BE 6 INCHES OR ONE FULL MESH +2 INCHES, WHICHEVER IS GREATER.

STRUCTURAL STEEL:

- STRUCTURAL STEEL SHALL BE DETAILED, FABRICATED AND ERECTED IN ACCORDANCE WITH THE AISC SPECIFICATION FOR THE DESIGN. FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS (LATEST EDITION AND SUPPLEMENTS).
- ALL WELDING SHALL BE PERFORMED IN ACCORDANCE WITH AWS STANDARDS (LATEST EDITION AND SUPPLEMENTS). WELDS SHALL BE PERFORMED USING SHIELDED METAL ARC WELDING WITH E70XX ELECTRODES. ALL WELDS NOT OTHERWISE DETAILED SHALL BE FILLET WELDED, ALL EDGES, CONTINUOUSLY WITH MINIMUM WELD SIZE PER AWS STANDARDS.
- STRUCTURAL STEEL WIDE FLANGE SHAPES: ASTM A992.
- ALL OTHER STRUCTURAL STEEL SHAPES, PLATES AND BARS: ASTM A36.
- SQUARE AND RECTANGULAR HSS: ASTM A500, GRADE C (FY=50 KSI).
- ROUND HSS: ASTM A500, GRADE C (FY = 46 KSI).
- UNFINISHED THREADED BOLTS (MACHINE BOLTS): ASTM A307, GRADE A.
- ANCHOR RODS: ASTM F1554-18 WITH SUPPLEMENT S1, GRADE 55 WELDABLE. NUTS PER ASTM A194 OR A563 TO MATCH ROD GRADE. WASHERS PER ASTM F436 WITH ADEQUATE HOLE COVERAGE.
- PLAIN AND THREADED BARS AND ANCHORS: ASTM A36 OR A307, GRADE A.
- HIGH STRENGTH BOLTS: ASTM A325-N AND SPECIFICATIONS.
- CONCRETE ANCHOR STUDS (CAS) SHALL CONFORM TO ASTM A108, GRADE 1015 OR 1020. ATTACH CAS WITH AUTOMATICALLY TIMED ELECTRIC-ARC STUD WELDING (FULL FUSION) AS PER MFR. AND AWS D1.1:2015 CHAPTER 7.
- DEFORMED BAR ANCHORS SHALL BE ASTM A496 WITH A MIN. TENSILE STRENGTH OF 80 KSI, AS MFR. BY NELSON OR APPROVED EQUAL. ATTACH ANCHORS WITH AUTOMATICALLY TIMED ELECTRIC-ARC STUD WELDING (FULL FUSION) AS PER MFR. AND AWS D1.1:2015 CHAPTER 7.
- DRYPACK UNDER STEEL BASE PLATES SHALL BE ASTM C1107, NON-SHRINK, NON-METALLIC GROUT AS MANUFACTURED BY US GROUT CORP., "FIVE STAR GROUT" OR APPROVED EQUAL.

SPECIAL INSPECTIONS:

SPECIAL INSPECTIONS, PAID FOR BY THE OWNER, SHALL BE PERFORMED BY A QUALIFIED INSPECTOR, AS REQUIRED BY SECTION 1704 OF THE INTERNATIONAL BUILDING CODE, 2018 EDITION (IBC-2018).

THE FOLLOWING TYPES OF WORK REQUIRE SPECIAL INSPECTION. SEE PROJECT SPECIFICATIONS FOR SPECIFIC REQUIREMENTS.

- ENGINEERED FILL PLACEMENT
- FOUNDATION EXCAVATIONS PRIOR TO CONCRETE PLACEMENT
- STRUCTURAL CONCRETE WORK.
- BOLTS INSTALLED IN CONCRETE.
- REINFORCING STEEL (INCLUDING FLOOR TOPPING REINFORCING)
- STRUCTURAL WELDING (FIELD & SHOP).
- HIGH STRENGTH BOLTS (SNUG TIGHT)
- POST INSTALLED BOLTS (EXPANSION OR EPOXY TYPE)
- REINFORCING SECURED WITH EPOXY.
- ALL MASONRY CONSTRUCTION WORK.

Breckenridge
g r a d u a t e
a r c h i t e c t s
p l a n n e r s

1735 e ft. lowell rd. # 12
tucson arizona 85719
5 2 0 . 8 8 2 . 9 9 4 4

Tubac Fire Station #1
2227 I-19 Frontage Rd., Tubac, AZ 85646

Design Development

PRELIMINARY
NOT FOR
CONSTRUCTION

PROJECT NO:
23.21.00
DATE:
June 28, 2024

#	DATE	DESCRIPTION	ISSUED TO

DRAWN BY: SL
CHECKED BY: AD

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Structural Notes

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& MARTIN WHITE GRIFFIS
STRUCTURAL ENGINEERS, INC.

STRUCTURAL NOTES

WOOD:

- WOOD FRAMING SHALL CONFORM TO THE REQUIREMENTS OF THE INTERNATIONAL BUILDING CODE, CHAPTER 23-WOOD. STRUCTURAL DIMENSION LUMBER SHALL CONFORM TO THE CURRENT STANDARD GRADING RULES FOR WEST COAST LUMBER OF THE WEST COAST LUMBER INSPECTION BUREAU (WCLIB) OR TO THE CURRENT STANDARD GRADING RULES FOR WESTERN LUMBER OF THE WESTERN WOOD PRODUCTS ASSOCIATION (WWPA).
- STRUCTURAL WOOD FRAMING SHALL BE DOUGLAS FIR-LARCH VISUALLY GRADED DIMENSION LUMBER AND SHALL HAVE THE FOLLOWING MINIMUM PROPERTIES.

TYPE	SPECIES	GRADE	F _b (PSI)*	E(PSI)*
JOISTS.....	DF-L	#2	875	1,600,000
BEAMS				
WIDTH 4" OR LESS.....	DF-L	#2	875	1,600,000
WIDTH > 4".....	DF-L	#1	1350	1,600,000
POSTS				
4x4.....	DF-L	#2	875	1,600,000
4x6 OR LARGER.....	DF-L	#2	875	1,600,000
6x6 OR LARGER.....	DF-L	#1	1200	1,600,000
STUDS				
2x4.....	DF-L	STUD	675	1,400,000
2x6 OR LARGER.....	DF-L	#2	875	1,600,000
LEDGERS AND TOP PLATES.....	DF-L	#2	875	1,600,000

*BASE DESIGN VALUES, ADJUSTMENT FACTORS NOT APPLIED.

- GLUE LAMINATED BEAMS, F_b = 2400 PSI, F_v = 165 PSI. E = 1800 KSI COMBIN. 24F-V8. PROVIDE STANDARD UPWARD CAMBER OF 1500' RADII AT MIDSPAN OF ALL BEAMS, UNLESS NOTED OTHERWISE.
- PLYWOOD: APA RATED SHEATHING; EXTERIOR EXPOSURE DURABILITY CLASSIFICATION; PANEL GRADE STRUCTURAL I, C-C CONFORMING TO PS 1-09, 5 PLY PLYWOOD.
- ALL NAILING SHALL BE WITH COMMON NAILS. ALL NAILING NOT NOTED SHALL BE ACCORDING TO TABLE 2304.10.1 OF THE INTERNATIONAL BUILDING CODE.
- WOOD CONNECTORS, "SIMPSON" OR APPROVED EQUAL (WITH CURRENT ICBO REPORT) WITH ALL HOLES FILLED WITH MANUFACTURER'S SPECIFIED NUMBER AND TYPE OF NAILS. MULTIPLE, SKEWED AND/OR SLOPED HANGERS SHALL BE SUPPLIED BY THE CONTRACTOR WHERE NECESSARY.
- DO NOT NOTCH, DRILL OR SPLICE JOISTS, BEAMS AND LOAD BEARING OR STRUCTURAL STUDS WITHOUT PRIOR APPROVAL OF STRUCTURAL ENGINEER.
- ALL WOOD CONSTRUCTION IN CONTACT WITH THE SLABS-ON-GRADE OR EXPOSED TO OUTSIDE AIR AND MOISTURE SHALL BE WATER-BORNE PRESERVATIVE TREATED IN ACCORDANCE WITH THE AMERICAN WOOD PRESERVERS ASSOCIATION (AWPA) STANDARD T1-19 "ALL TIMBER PRODUCTS - PRESERVATIVE TREATMENT BY PRESSURE PROCESSES".
- STANDARD CUT WASHERS SHALL BE USED UNDER BOLT HEADS AND NUTS AGAINST WOOD.

PREFABRICATED WOOD JOISTS:

- THE JOIST MANUFACTURER SHALL BE RESPONSIBLE FOR THE STRUCTURAL DESIGNS OF THE JOISTS AND COMPONENTS OF THE JOIST SYSTEM. ALL DESIGN, DETAILS, SHOP AND ERECTION DRAWINGS, AND ALL CALCULATIONS SUBMITTED TO THE ARCHITECT FOR REVIEW SHALL BEAR THE SEAL OF A QUALIFIED PROFESSIONAL ENGINEER, CURRENTLY REGISTERED IN THE STATE OF ARIZONA.
- THE MANUFACTURER SHALL SUBMIT SHOP DRAWINGS AND CALCULATIONS FOR THE ARCHITECT'S REVIEW PRIOR TO FABRICATION. THE SHOP DRAWINGS AND CALCULATIONS SHALL INCLUDE, BUT ARE NOT LIMITED TO, THE APPLICABLE DETAILS, DESIGN LOADS, ALLOWABLE STRESSES, ERECTION DRAWINGS, AND ALL NECESSARY INSTALLATION INSTRUCTIONS AND DETAILS.
- THE MANUFACTURER SHALL FURNISH ALL BRIDGING, BLOCKING, AND BRACING REQUIRED FOR THE STABILITY OF THEIR SYSTEMS DURING ALL PHASES OF CONSTRUCTION, AND FINAL COMPLETION.
- THE JOIST SYSTEM SHALL INCLUDE, BUT NOT BE LIMITED TO, ALL JOISTS, WALL OR METAL BRIDGING, BLOCKING PANELS, WEB STIFFENERS AND OTHER ITEMS SHOWN ON DRAWINGS, SPECIFIED HEREIN, OR AS REQUIRED TO COMPLETE THE WORK. ALL MATERIAL SHALL BE NEW, UNUSED AND FREE FROM DEFECTS.
- JOIST FLANGES SHALL BE SOLID SAWN OR LAMINATED LUMBER WITH LATERAL STRENGTH AND RESISTANCE TO WITHDRAWAL VALUES FOR NAILS MEETING OR EXCEEDING THOSE FOR DOUGLAS FIR OR SOUTHERN PINE (SPECIFIC GRAVITY = 0.49 MIN.).
- SUPPLIED JOISTS SHALL NOT BE LESS IN SIZE OR SERIES THAN INDICATED ON PLANS.

THE JOIST MANUFACTURER SHALL SUBMIT DESIGN CALCULATIONS CONFIRMING THE JOIST CAPACITY FOR THE FOLLOWING LOADS:

LIVE LOAD = 20 PSF WITHOUT REDUCTION.
DEAD LOAD = 25 PSF INCLUDING JOIST WEIGHT.

IN ADDITION TO THE UNIFORM LOADS INDICATED, DESIGN FOR ALL ADDITIONAL LOADS SHOWN ON STRUCTURAL DRAWINGS.

- ROOF LOAD DURATION FACTOR = 1.25.
- SEE DRAWINGS FOR CONCENTRATED ROOF LOADS AND OTHER SPECIAL LOADING CONDITIONS. PROVIDE SPECIAL JOISTS OR EXTRA JOISTS TO CARRY THE SUPERIMPOSED LOADS.
- THE TOTAL (DEAD PLUS LIVE) LOAD DEFLECTION OF THE JOIST SHALL NOT EXCEED L/240 OF THE JOIST SPAN. THE TOTAL LIVE LOAD DEFLECTION OF THE JOIST SHALL NOT EXCEED L/360 OF THE JOIST SPAN.
- "REDBUILT" PRODUCTS HAVE BEEN SPECIFIED ON THE DRAWINGS. ALTERNATE JOISTS MAY BE PROPOSED PROVIDED THAT ALL JOIST ARE THE SAME DEPTH AND SHALL HAVE EQUAL OR BETTER E_I VALUES, MOMENT AND SHEAR CAPACITIES, AND HAVE A CURRENT ICC-ES EVALUATION REPORT.

STRUCTURAL COLD-FORMED STEEL STUDS:

- STEEL FOR ALL 14 AND 16 GAGE STUDS AND TRACKS SHALL HAVE A MINIMUM YIELD STRENGTH OF 50,000 PSI. STEEL FOR ALL 18 AND 20 GAGE STUDS AND TRACK, ACCESSORIES AND BRIDGING SHALL HAVE A MINIMUM YIELD STRENGTH OF 33,000 PSI. STEEL SHALL BE GALVANIZED AT LOCATIONS EXPOSED TO WEATHER AND WHENEVER NOTED ON THE DRAWINGS. SEE DETAILS FOR STUD SIZES AND STRUCTURAL PROPERTY REQUIREMENTS.
- PROVIDE HORIZONTAL BRIDGING AT 6'-0" MAXIMUM O.C. AND AS OTHERWISE SHOWN ON THE DRAWINGS.
- FRAME BOTH SIDES OF EXPANSION AND CONTROL JOINTS WITH SEPARATE STUDS.
- PROVIDE ALL ACCESSORY FRAMING AS INDICATED ON THE DETAILS AND AS RECOMMENDED BY THE MANUFACTURER.
- POWER ACTUATED FASTENERS (PAF) FOR LIGHT GAGE STEEL FRAMING (WITH 1"Ø MIN METAL WASHER) SHALL CONFORM TO THE FOLLOWING:

CONCRETE PAF SHANK 0.157"Ø MIN W/ 1 1/4" MIN EMBEDMENT LENGTH INTO CONCRETE, GALVANIZED.

MIN ULTIMATE TENSION (4000PSI NW CONC) = 1,125 LBS
MIN ULTIMATE SHEAR (4000 PSI NW CONC) = 1,125 LBS
MIN EDGE DISTANCE = 3"

STEEL PAF SHANK 0.157"Ø MIN, SPIRAL KNURLED WITH LENGTHS AS RECOMMENDED BY MANUFACTURER FOR SPECIFIED BASE STEEL THICKNESS.

MIN ULTIMATE TENSION (1/4" A36 STEEL) = 735 LBS
MIN ULTIMATE SHEAR (1/4" A36 STEEL) = 535 LBS

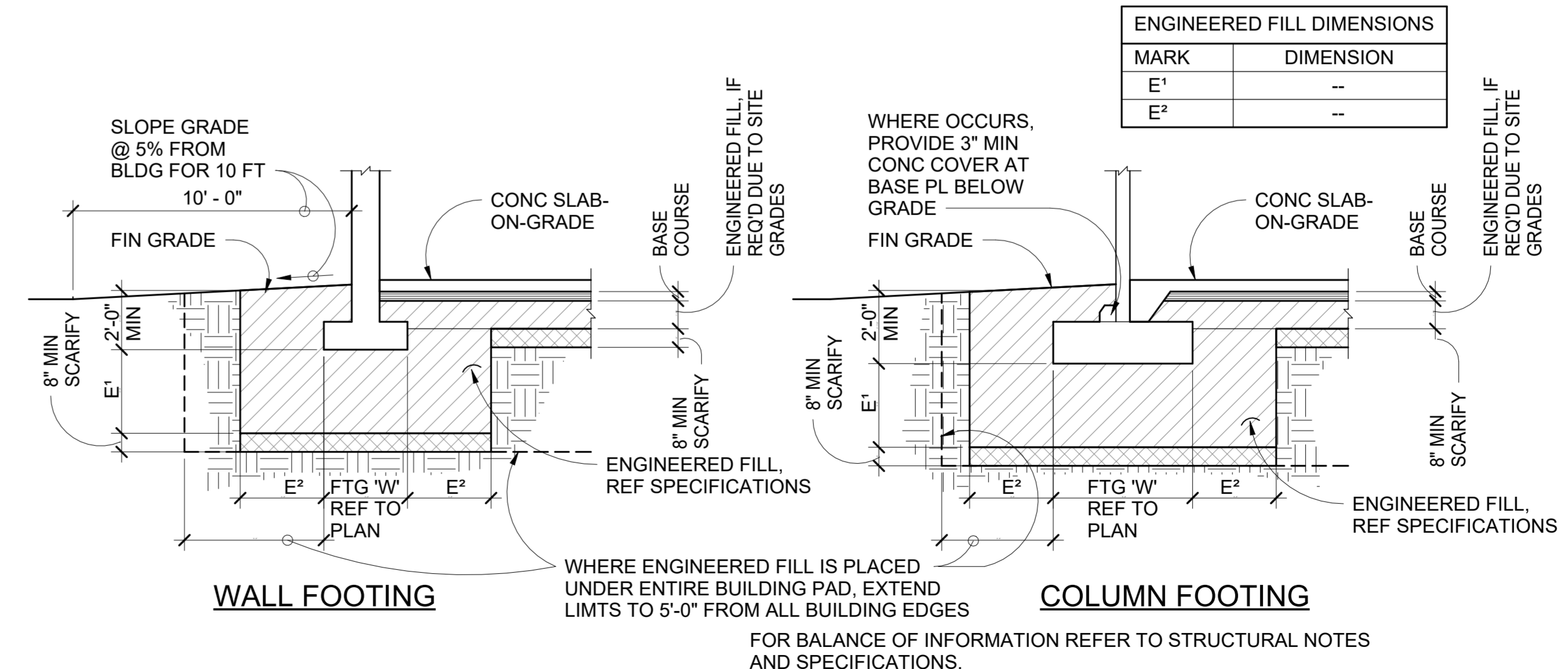
- SCREWS FOR LIGHT GAGE FRAMING:

SELF TAPPING, GALVANIZED, HEX HEAD SCREWS WITH LENGTH AS REQUIRED TO ENGAGE 3 EXPOSED THREADS MINIMUM PAST BASE STEEL.

DEFERRED SUBMITTALS:

SUBMITTAL DOCUMENTS FOR DEFERRED SUBMITTAL ITEMS SHALL BE SUBMITTED TO THE ARCHITECT AND STRUCTURAL ENGINEER OF RECORD FOR REVIEW, AND THEN FORWARDED TO THE BUILDING OFFICIAL WITH NOTATION THAT THE DEFERRED SUBMITTAL DOCUMENTS ARE IN GENERAL CONFORMANCE WITH THE DESIGN OF THE BUILDING(S). THE DEFERRED SUBMITTAL ITEMS SHALL NOT BE INSTALLED UNTIL THEIR DESIGN AND SUBMITTAL DOCUMENTS HAVE BEEN APPROVED BY THE BUILDING OFFICIAL. THE FOLLOWING ITEMS SHALL BE CLASSIFIED AS DEFERRED SUBMITTALS:

- PREFABRICATED WOOD JOISTS AND CALCULATIONS



4 TYP EARTHWORK REQUIREMENTS
NO SCALE

Breckenridge
g r o u p
a r c h i t e c t s
p l a n n e r s

1735 e ft. lowell rd. # 12
tucson arizona 85719
5 2 0 . 8 8 2 . 9 9 4 4

Tubac Fire Station #1
2227 I-19 Frontage Rd., Tubac, AZ 85646

Design Development

PRELIMINARY
NOT FOR
CONSTRUCTION

PROJECT NO:
23.21.00
DATE:
June 28, 2024

REVISION SCHEDULE:	DATE	DESCRIPTION	ISSUED TO

DRAWN BY: SL
CHECKED BY: AD

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Structural Notes

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STRUCTURAL ENGINEERS, INC.

SO2

SPECIAL INSPECTIONS

INSPECTION AND TESTING NOTES:

- AN INDEPENDENT TESTING AGENCY AND SPECIAL INSPECTORS SHALL BE RETAINED BY THE OWNER TO PERFORM THE TESTS AND INSPECTION AS REQUIRED BY SECTION 1704 OF THE 2018 IBC. THE CONTRACTOR SHALL PROVIDE ACCESS FOR THE SPECIAL INSPECTOR TO THE SITE OR FABRICATION SHOPS AND SHALL FURNISH SAMPLES OF MATERIALS FOR TESTING AS REQUESTED BY THE TESTING AGENCY AND THE GOVERNING CODE. PER SECTION 1704 INSPECTION OF FABRICATIONS, STEEL CONSTRUCTION, CONCRETE CONSTRUCTION, MASONRY CONSTRUCTION, AND SOILS ARE REQUIRED.
- IF INITIAL TESTS OR INSPECTIONS MADE BY THE OWNER'S TESTING AGENCY REVEAL THAT ANY PORTION OF THE WORK DOES NOT COMPLY WITH THE CONTRACT DOCUMENTS, ADDITIONAL TESTS, INSPECTIONS, AND NECESSARY REPAIRS WILL BE MADE AT THE CONTRACTOR'S EXPENSE.
- PROVIDE CONTINUOUS OR PERIODIC SPECIAL INSPECTION FOR ITEMS NOTED IN "TEST AND INSPECTION LIST".
- SPECIAL INSPECTIONS MAY NOT BE REQUIRED WHEN THE WORK IS DONE ON THE PREMISES OF A FABRICATOR REGISTERED AND APPROVED BY THE BUILDING OFFICIAL OR GOVERNING AGENCY HAVING JURISDICTION OVER THE PROJECT TO PERFORM SUCH WORK WITHOUT SPECIAL INSPECTION.
- EACH CONTRACTOR RESPONSIBLE FOR THE CONSTRUCTION OF A MAIN WIND OR SEISMIC FORCE RESISTING SYSTEM ELEMENT SHALL SUBMIT A WRITTEN STATEMENT OF RESPONSIBILITY TO THE BUILDING OFFICIAL AND TO THE OWNER'S REPRESENTATIVE, PRIOR TO THE COMMENCEMENT OF THE WORK ON THE SYSTEM OR COMPONENT. THE CONTRACTOR'S STATEMENT OF RESPONSIBILITY SHALL CONTAIN THE FOLLOWING INFORMATION:
 - ACKNOWLEDGEMENT OF AWARENESS OF THE SPECIAL REQUIREMENTS CONTAINED IN THE STATEMENT OF SPECIAL INSPECTIONS.
 - ACKNOWLEDGEMENT THAT CONTROL WILL BE EXERCISED TO OBTAIN CONFORMANCE WITH THE CONSTRUCTION DOCUMENTS APPROVED BY THE BUILDING OFFICIAL.
 - PROCEDURES FOR EXERCISING CONTROL WITHIN THE CONTRACTOR'S ORGANIZATION, THE METHOD AND FREQUENCY OF REPORTING AND DISTRIBUTION OF THE REPORTS.
 - IDENTIFICATION AND QUALIFICATIONS OF THE PERSONS EXERCISING SUCH CONTROL AND THEIR POSITIONS IN THE ORGANIZATION.
- SPECIAL INSPECTIONS FOR THE STRUCTURAL STEEL PORTIONS OF THE LATERAL FORCE RESISTING SYSTEM SHALL ALSO COMPLY WITH THE REQUIREMENTS OF AISC 341.
- NON-DESTRUCTIVE WELD TESTING: ULTRASONIC TESTING IS REQUIRED FOR ALL (100%) PARTIAL AND COMPLETE PENETRATION WELDS. TESTING SHALL BE PERFORMED 24 HOURS OR MORE AFTER COMPLETION OF WELDING. WELD BACKING REMOVAL AREAS AND FILLET WELDS SHALL BE SUBJECT TO MAGNETIC PARTICLE EXAMINATION.
- TEST BY CALIBRATED TORQUE WRENCH A MINIMUM OF ONE (1) HIGH STRENGTH BOLT AT EACH SHEAR CONNECTION. A MINIMUM OF TWO (2) BOLTS PER CONNECTION FOR CONNECTION WITH 8 BOLTS OR MORE AND A MINIMUM OF 2 BOLTS PER FRAME BEAM SHEAR CONNECTION.
- TEST A MINIMUM OF 10% OF FILLET WELDS BY MAGNETIC PARTICLE (ASTM 109 METHOD). TEST A MINIMUM OF 25% OF CONTINUITY PLATE FILLET WELDS AND BEAM FILLET WELDS (100% IN MOMENT ZONES) BY MAGNETIC PARTICLE. ALL FIELD FILLET WELDS SHALL BE 100% VISUALL INSPECTED.
- APPROVAL BY THE INSPECTOR OF MATTERS NOT SPECIFICALLY CONSTRUCTED PER THE APPROVED DRAWINGS DOES NOT MEAN THE FAILURE TO COMPLY WITH THE CONSTRUCTION DOCUMENTS HAS BEEN ACCEPTED. ANY DETAIL THAT FAILS TO BE CLEAR OR IS AMBIGUOUS MUST BE REFERRED TO THE STRUCTURAL ENGINEER FOR INTERPRETATION OR CLARIFICATION.
- INSPECTION AND TESTING REPORTS SHALL BE SUBMITTED TO THE STRUCTURAL ENGINEER AND OWNER WITHIN SEVEN DAYS OF WHEN THE INSPECTION WAS MADE OR WHEN THE TESTING WAS PERFORMED.
- THE STRUCTURAL ENGINEER SHALL BE NOTIFIED IMMEDIATELY OF ANY INSPECTION OR TESTING WHICH DOES NOT COMPLY WITH THE REQUIREMENTS OF THE CONTRACT DOCUMENTS.

TABLE 1705.6
REQUIRED VERIFICATION AND INSPECTION OF SOILS

VERIFICATION AND INSPECTION TASK	CONTINUOUS DURING TASK LISTED	PERIODICALLY DURING TASK LISTED
1. Verify materials below shallow foundations are adequate to achieve the design bearing capacity.	-	X
2. Verify excavations are extended to proper depth and have reached proper material.	-	X
3. Perform classification and testing of controlled fill materials.	-	X
4. Verify use of proper materials, densities, and lift thicknesses during placement and compaction of compacted fill.	X	-
5. Prior to placement of compacted fill, observe subgrade and verify that site has been prepared properly.	-	X

TABLE 1705.3
REQUIRED VERIFICATION AND INSPECTION OF CONCRETE CONSTRUCTION

VERIFICATION AND INSPECTION	CONTINUOUS	PERIODIC	REFERENCED STANDARD*	IBC REFERENCE
1. Inspection of reinforcing steel, including prestressing tendons, and placement.	-	X	ACI 318: 3.5, 7.1-7.7	1910.4
2. Inspection of reinforcing steel, welding in accordance w/ Table 1705.2.2, Item 2b.	-	-	ASW D1.4 ACI 318: 3.5.2	-
3. Inspection of anchors cast in concrete where allowable loads have been increased or where strength design is used.	-	X	ACI 318: 8.1.3, 21.2.8	1908.5, 1909.1
4. Inspection of anchors post-installed in hardened concrete members ^b .	-	X	ACI 318: 3.8.6, 8.1.3, 21.2.8	1909.1
5. Verifying use of required design mix.	-	X	ACI 318: Ch. 4, 5.2-5.4	1904.2, 1910.2, 1910.3
6. At the time fresh concrete is sampled to fabricate specimens for strength tests, perform slump and air content tests, and determine the temperature of the concrete.	X	-	ASTM C 172 ASTM C 31 ACI 318: 5.6, 5.8	1910.10
7. Inspection of concrete and shotcrete placement for proper application techniques.	X	-	ACI 318: 5.9, 5.10	1910.6, 1910.7, 1910.8
8. Inspection for maintenance of specified curing temperature and techniques.	-	X	ACI 318: 5.11-5.13	1910.9
9. Inspection of prestressed concrete: a. Application of prestressing forces. b. Grouting of bonded prestressing tendons in the seismic force-resisting system.	X X	-	ACI 318: 18.20 ACI 318: 18.18.4	-
10. Erection of precast concrete members.	-	X	ACI 318: Ch. 16	-
11. Verification of in-situ concrete strength, prior to stressing of tendons in post-tensioned concrete and prior to removal of shores and forms from beams and structural slabs.	-	X	ACI 318: 6.2	-
12. Inspect formwork for shape, location and dimensions of the concrete member being formed.	-	X	ACI 318: 6.1.1	-

For SI: 1 inch = 25.4mm

- Where applicable, see also Section 1705.11, Special inspections for seismic resistance.
- Specific requirements for special inspection shall be included in the research report for the anchor issued by an approved source in accordance with ACI 355.2 or other qualification procedures. Where specific requirements are not provided, special inspection requirements shall be specified by the registered design professional and shall be approved by the building official prior to the commencement or the work.

TABLE C-N5.4-1
INSPECTION TASKS PRIOR TO WELDING

INSPECTION TASKS PRIOR TO WELDING	AWS D1.1/D1.1M REFERENCES*
Welding procedure specifications (WPSs) available	6.3
Manufacturer certifications for welding consumables available	6.2
Material identification (type/grade)	6.2
Welder identification system	6.4 (welder qualification) (identification system not required by AWS D1.1/D1.1M)
Fit-up of groove welds (including joint geometry) - Joint preparation - Dimensions (alignment, root opening, root face, bevel) - Cleanliness (condition of steel surfaces) - Tacking (tack weld quality and location) - Backing type and fit (if applicable)	6.5.2 5.22 5.15 5.18 5.10, 5.22.1.1
Configuration and finish of access holes	6.5.2, 5.17 (also see Section J1.6)
Fit-up of fillet welds - Dimensions (alignment, gaps at root) - Cleanliness (condition of steel surfaces) - Tacking (tack weld quality and location)	5.22.1 5.15 5.18
Check welding equipment	6.2, 5.11

* AWS (2010)

TABLE C-N5.4-2
INSPECTION TASKS DURING WELDING

INSPECTION TASKS DURING WELDING	AWS D1.1/D1.1M REFERENCES*
Use of qualified welders	6.4
Control and handling of welding consumables - Packaging - Exposure control	6.2 5.3.1 5.3.2 (for SMAW), 5.3.3 (for SAW)
No welding over cracked tack welds	5.18
Environmental conations - Wind speed within limits - Precipitation and temperature	5.12.1 5.12.2
WPS followed - Settings on welding equipment - Travel speed - Selected welding materials - Shielding type/flow rate - Preheat applied - Interpass temperature maintained (min./max.) - Proper position (f, v, h, oh)	6.3.3, 6.5.2, 5.5, 5.21 5.6, 5.7
Welding techniques - Interpass and final cleaning - Each pass within profile limitations - Each pass meets quality requirements	6.5.2, 6.5.3, 5.24 5.30.1

* AWS (2010)

TABLE C-N5.4-3
INSPECTION TASKS AFTER WELDING

INSPECTION TASKS AFTER WELDING	AWS D1.1/D1.1M REFERENCES*
Welds cleaned	5.30.1
Size, length and location of welds	6.5.1
Welds meet visual acceptance criteria - Crack prohibition - Weld/base-metal fusion - Crater cross section - Weld profiles - Weld size - Under cut - Porosity	6.5.3 Table 6.1(1) Table 6.1(2) Table 6.1(3) Table 6.1(4), 5.24 Table 6.1(6) Table 6.1(7) Table 6.1(8)
Arc strikes	5.29
k-area*	not addressed in AWS
Backing removed and weld tabs removed (if required)	5.10, 5.31
Repair activities	6.5.3, 5.26
Document acceptance or rejection of welded joint or member	6.5.4, 6.5.5

* k-area issues were identified in AISC (1997b). See commentary Section A3.1c and Section J10.8.
** AWS (2010)



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5 2 0 . 8 8 2 . 9 9 4 4

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2227 I-19 Frontage Rd., Tubac, AZ 85646

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23.21.00
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STRUCTURAL NOTES

TABLE C-N5.6-1
INSPECTION TASKS PRIOR TO BOLTING

INSPECTION TASKS PRIOR TO BOLTING	APPLICABLE RCSC Specification REFERENCES*
Manufacturer's certifications available for fastener materials	2.1, 9.1
Fasteners marked in accordance with ASTM requirements	Figure C-2.1, 9.1 (also see ASTM standards)
Proper fasteners selected for the joint detail (grade, type, bolt length if threads to be excluded from shear plane)	2.3.2, 2.7.2, 9.1
Proper bolting procedure selected for joint detail	4, 8
Connecting elements, including the appropriate faying surface condition and hole preparation, if specified, meet applicable requirements	3, 9.1, 9.3
Pre-installation verification testing by installation personnel observed and documented for fastener assemblies and methods used	7, 9.2
Proper storage provided for bolts, nuts, washers and other fastener components	2.2, 8, 9.1
* RCSC (2009)	

TABLE C-N5.6-2
INSPECTION TASKS DURING BOLTING

INSPECTION TASKS DURING BOLTING	APPLICABLE RCSC Specification REFERENCES*
Fasteners assemblies, of suitable condition, placed in all holes and washers (if required) are positioned as required	8.1, 9.1
Joint brought to the snug-tight condition prior to the pretensioning operation	8.1, 9.1
Fastener component not turned by the wrench prevented from rotating	8.2, 9.2
Fasteners are pretensioned in accordance with a method approved by RCSC and progressing systematically from the most rigid point toward free edges	8.2, 9.2
* RCSC (2009)	

TABLE C-N5.6-3
INSPECTION TASKS AFTER BOLTING

INSPECTION TASKS AFTER BOLTING	APPLICABLE RCSC Specification REFERENCES*
Document acceptance or rejection of bolted connections	not addressed by RCSC
* RCSC (2009)	

REQUIRED VERIFICATION AND INSPECTION OF EPOXY AND EXPANSION ANCHORS

VERIFICATION AND INSPECTION TASK	CONTINUOUS DURING TASK LISTED	PERIODICALLY DURING TASK LISTED
1. Installation of anchors per manufacturer's reports.	X	-

NOTES:

- Tables taken directly from IBC for reference.

TABLE 4 - Minimum Special Inspection Requirements

INSPECTION TASK	Frequency ^(a)	Reference for Criteria	
	Level 3	TMS 402	TMS 602
1. As masonry construction begins, verify that the following are in compliance:			
a. Proportions of site-prepared mortar	P		Art. 2.1, 2.6 A & 2.6 C
b. Grade and size of prestressing tendons and anchorages	P		Art. 2.4 B & 2.4 H
c. Grade, type and size of reinforcement, connectors, anchor bolts, and prestressing tendons and anchorages	P		Art. 3.4 & 3.6 A
d. Prestressing technique	P		Art. 3.6 B
e. Properties of thin-bed mortar for AAC masonry	C		Art. 2.1 C.1
f. Sample panel construction	C		Art. 1.6 D
2. Prior to grouting, verify that the following are in compliance:			
a. Grout space	C		Art. 3.2 D, & 3.2 F
b. Placement of prestressing tendons and anchorages	P	Sec. 10.8 & 10.9	Art. 2.4 & 3.6
c. Placement of reinforcement, connectors, and anchor bolts	C	Sec. 6.1, 6.3.1, 6.3.6, & 6.3.7	Art. 3.2 E & 3.4
d. Proportions of site-prepared grout and prestressing grout for bonded tendons	P		Art. 2.6 B & 2.4 G.1.b
3. Verify compliance of the following during construction:			
a. Materials and procedures with the approved submittals	P		Art. 1.5
b. Placement of masonry units and mortar joint construction	P		Art. 3.3 B
c. Size and location of structural members	P		Art. 3.3 F
d. Type, Size and location of anchors, including other details of anchorage of masonry to structural members, frames, or other construction	P	Sec. 1.2.1 (e), 6.2.1, & 6.3.1	
e. Welding of reinforcement	C	Sec. 6.1.6.1.2	
f. Preparation, construction, and protection of masonry during cold weather (temperature below 40°F (4.4°C)) or hot weather (temperature above 90°F (32.2°C))	P		Art. 1.8 C & 1.8 D
g. Application and measurement of prestressing force	C		Art. 3.6 B
h. Placement of grout and prestressing grout for bonded tendons is in compliance	C		Art. 3.5 & 3.6 C
i. Placement of AAC masonry units and construction of thin-bed mortar joints	C		Art. 3.3 B.9 & 3.3 F.1.b
4. Observe preparation of grout specimens, mortar specimens and/or prisms	C		Art. 1.4 B.2.a.3, 1.4 B.2.b.3, 1.4 B.2.c.3, 1.4 B.3, & 1.4 B.4

(a) Frequency refers to the frequency of inspection, which may be continuous during the listed task or periodically during the listed task, as defined in the table.

NR = Not Required, P = Periodic, C = Continuous

(b) Required for the first 5000 square feet (465 square meters) of AAC masonry.

(c) Required after the first 5000 square feet (465 square meters) of AAC masonry.

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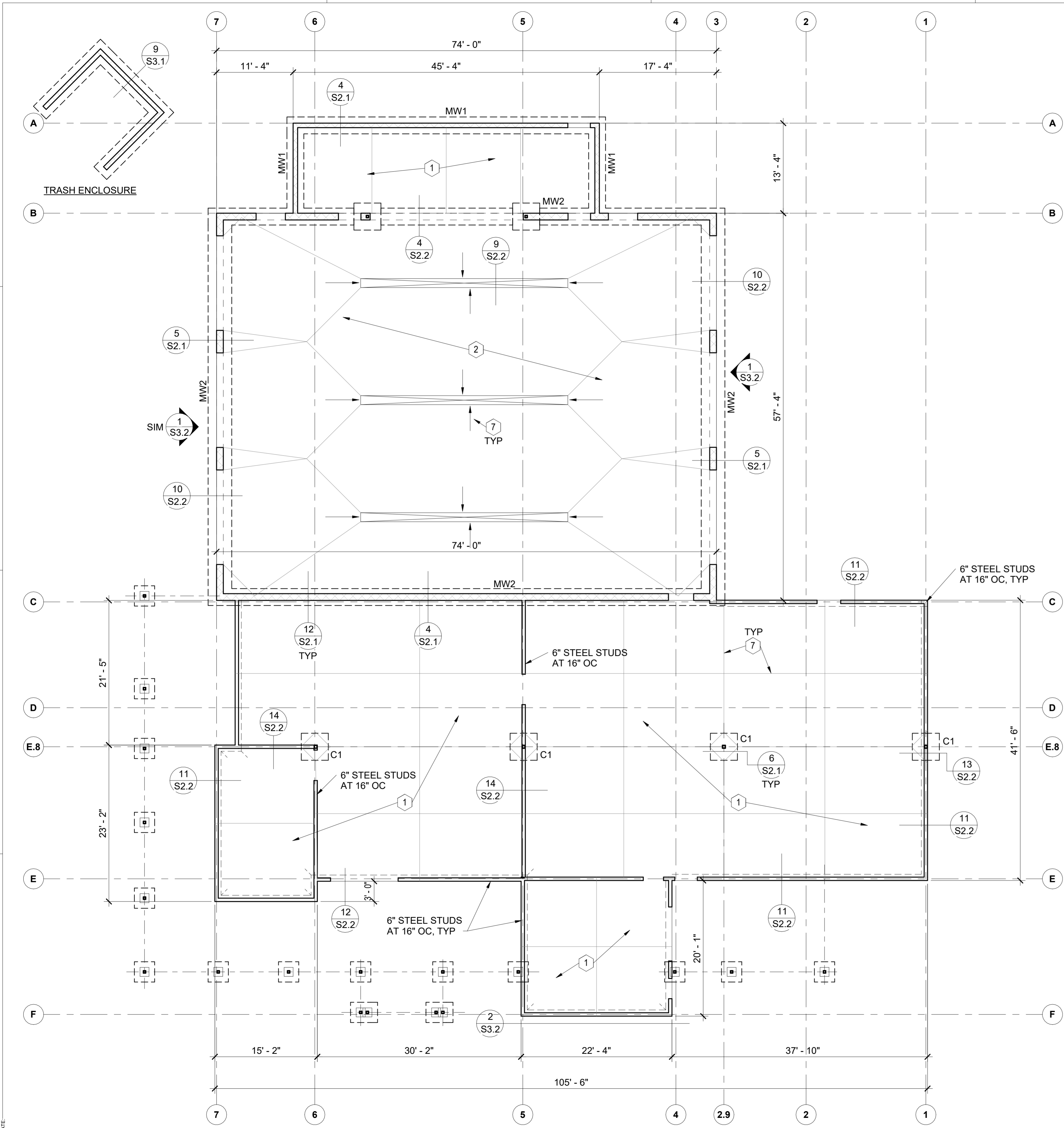
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STRUCTURAL ENGINEERS, INC.

Special
Inspections

SO.4



- KEYNOTES:**
- 5" THICK CONCRETE SLAB ON 15 MIL VAPOR BARRIER OVER 4" BASE COURSE. REFER TO DETAIL 2/ S2.2
 - 7" THICK CONCRETE SLAB ON 15 MIL VAPOR BARRIER OVER 4" BASE COURSE. REFER TO DETAIL 1/ S2.2
 - REFER TO ARCH, CIVIL AND LANDSCAPE DWGS FOR EXTERIOR SITE WORK.
 - 'F4.0' INDICATES PAD FOOTING PER SCHEDULE 2/ S1.1
'WF1' INDICATES WALL FOOTING PER SCHEDULE 2/ S1.1
'C1' COLUMNS PER SCHEDULE 2/ S1.1
'MW1' INDICATES MASONRY WALL PER SCHEDULE 6/ S3.1
 - INDICATES STEP IN FOOTING, REFER TO DETAIL 3/ S2.1
 - (-1'-0") INDICATES TOP OF FOOTING OR TOP OF DRILLED SHAFT REFERENCE ELEVATION. 3/ S2.2
 - 'CJ', 'CTJ' INDICATES SLAB CONTROL JOINTS PER DETAIL
 - 2#4x4'-0" AT 3" C/C AT MID-DEPTH OF SLAB, TYP AT ALL SLAB DIS-CONTINUOUS JOINTS AND RE-ENTRANT CORNERS.
 - INDICATES CHANGE IN FLOOR ELEVATION, TYP
 - SLOPE SLAB TO DRAIN, REFER TO ARCH DWGS 6/ S2.2
 - CONCRETE EQUIPMENT BASE, REFER TO DETAIL . SEE MECH DWGS FOR SIZE AND LOCATIONS.

FOOTING (F) (WF) SCHEDULE			
MARK	"W"	"T"	REINFORCING
F1	___ x ___	___	___
F2	___ x ___	___	___
WF1	___ CONT	___	___ # CONT.
WF2	___ CONT	___	___ # CONT.

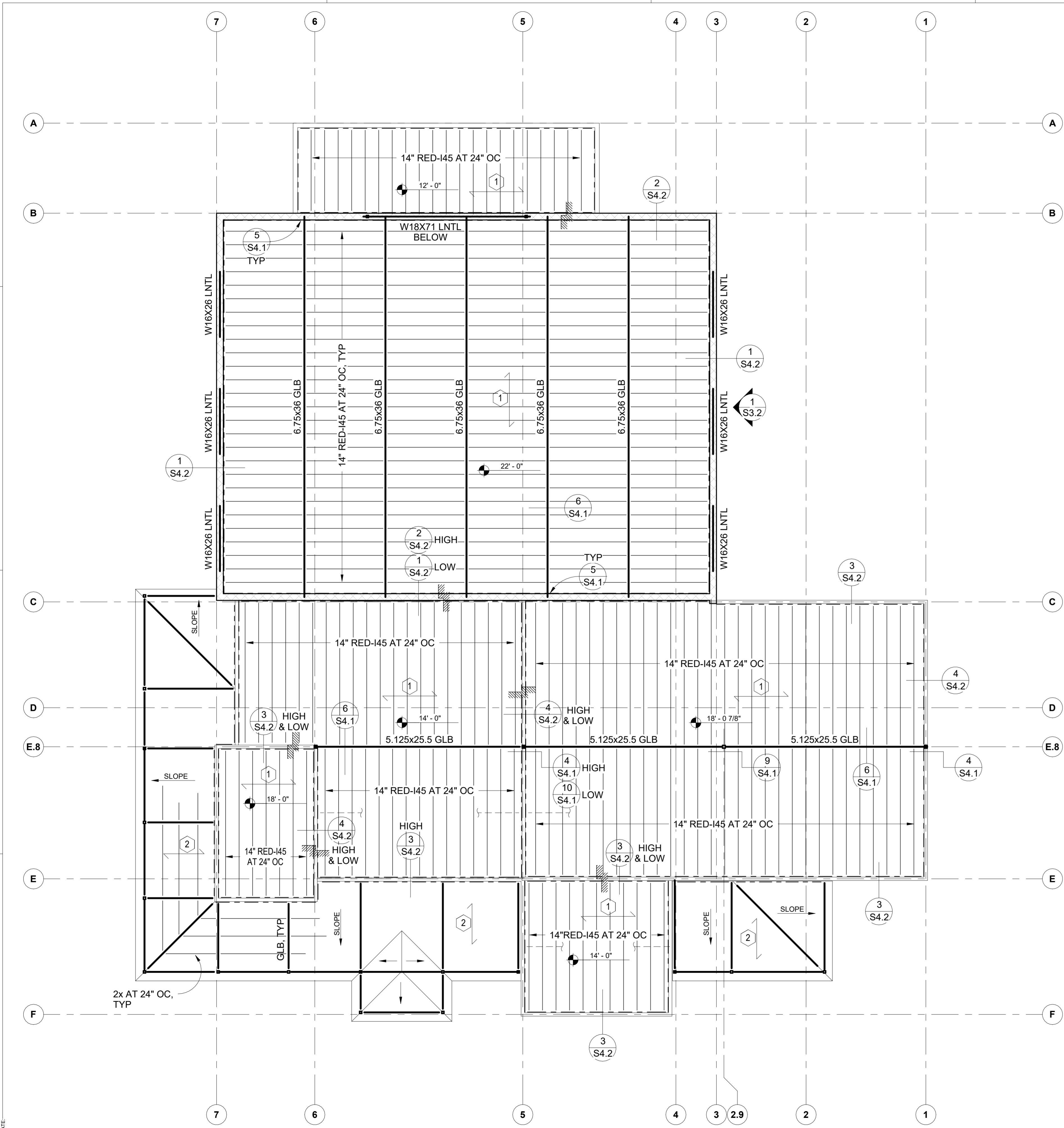
COLUMN (C) SCHEDULE			
MARK	COLUMN	BASEPLATES	NOTES
C1	HSS5x5x1/4	PL5/8"x12"x12"	-

2 FOOTING AND COLUMN SCHEDULE
3/4" = 1'-0"

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



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KEYNOTES:

1. 5/8" ROOF SHEATHING, REFER TO DETAIL 1/S4.1
2. 7/8" STEEL DECK AT CANOPY, REF DTL 1/S4.4 AT HIPS AND VALLEY BEAMS, ATTACH PER _____
3. SIMPSON 'TB' BRIDGING, MIN ROWS SHOWN, EQUALLY SPACE ALONG JOIST SPAN.
4. INDICATES BOTTOM OF PLYWOOD REFERENCE ELEVATION, VERIFY ALL ELEVATIONS W/ ARCH DWGS.
5. ROOF HATCH, FRAME OPENING PER 2/S4.1
6. ROOF MOUNTED MECH EQUIP & DESIGN UNIT WEIGHTS, REF MECH DWGS FOR EXACT SIZE AND LOCATION. JST MFR TO DESIGN ROOF JOISTS FOR LOADS SHOWN, MIN OF DOUBLE JOISTS AT 24" OC BELOW ALL MECH UNITS. REF 2/S4.1

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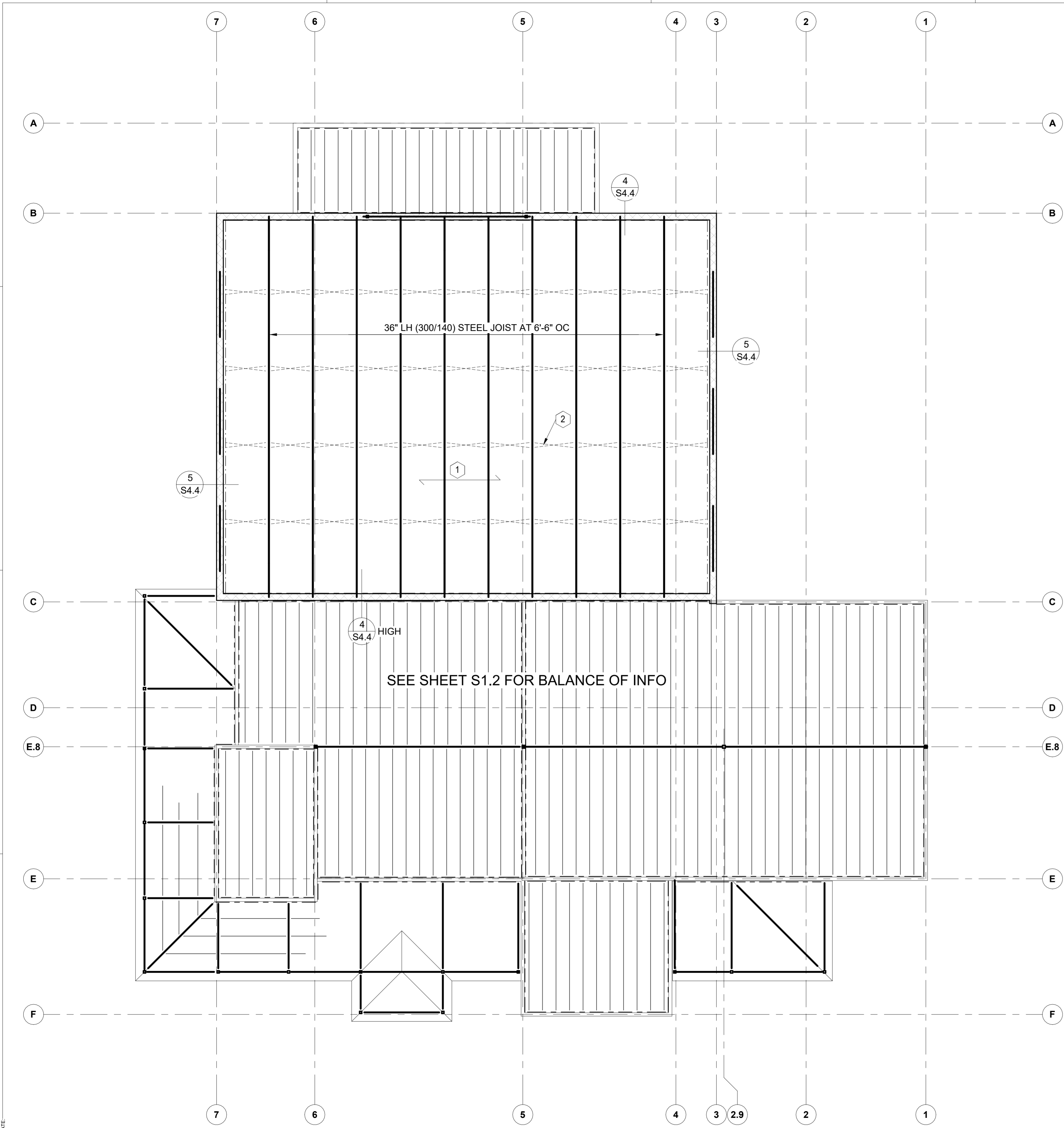
1 ROOF FRAMING PLAN - WOOD ROOF APPARATUS BAY
 1/8" = 1'-0"



Roof Framing
 Plan

\$12

PLOT DATE: 02/28/2024 8:38:01 AM



KEYNOTES: (ROOF FRAMING)

1. INDICATES 1 1/2"x20GA 'B' GALVANIZED STEEL ROOF DECK, SEE DETAIL 1/ S4.4
2. STEEL JOIST BRIDGING DESIGNED BY JOIST MFR, REF DETAIL 6/ S4.4

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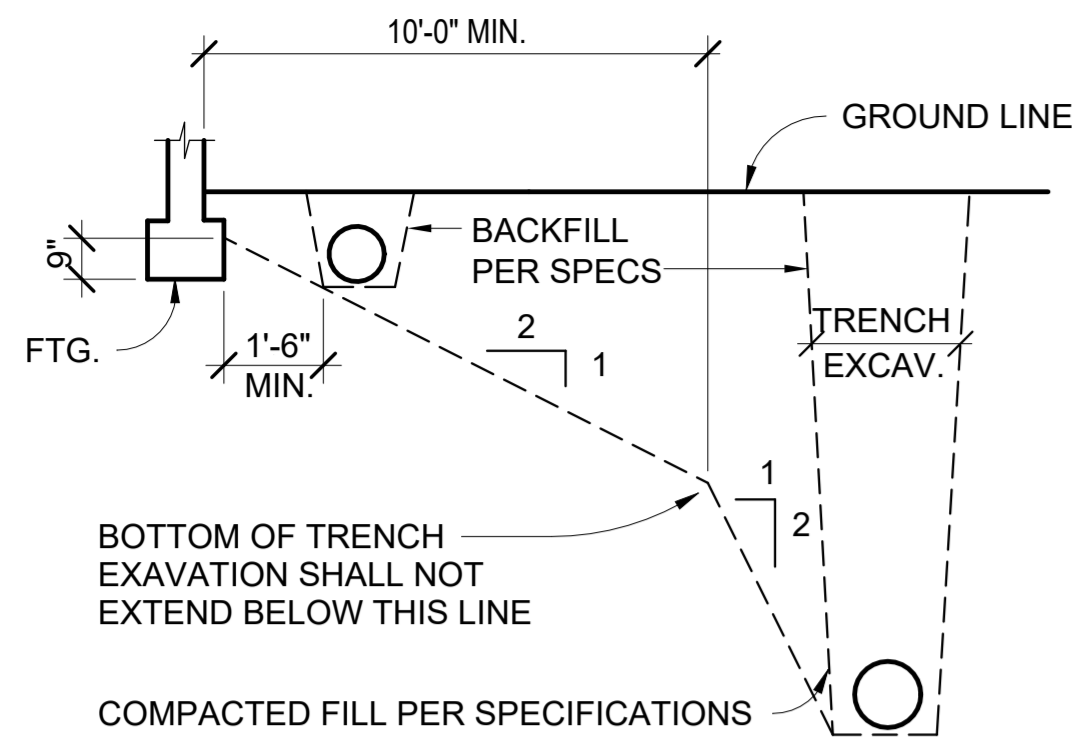
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1 ROOF FRAMING PLAN - STEEL ROOF APPARATUS BAY
 1/8" = 1'-0"



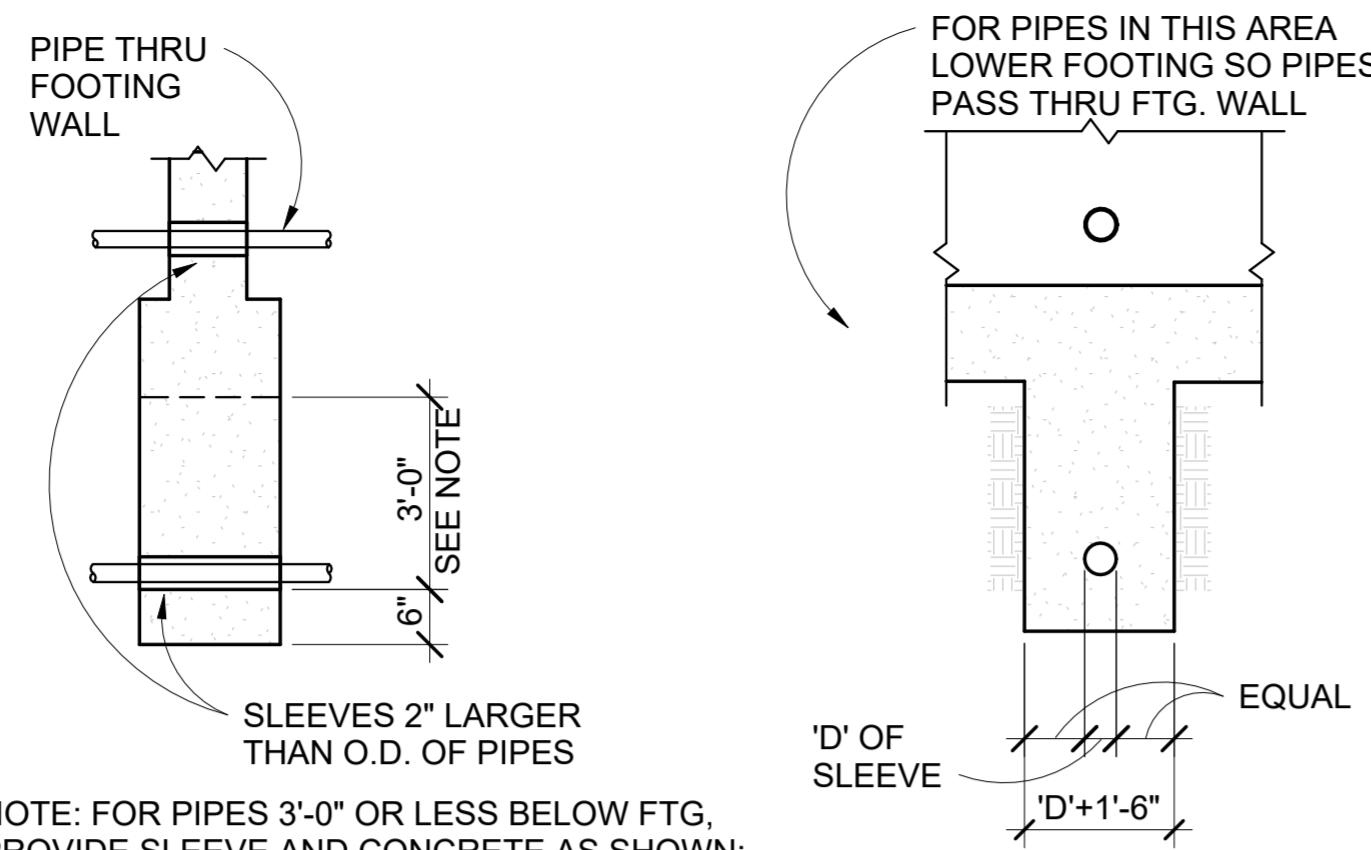
Roof Framing
 Plan - Steel Alt
S1.2a

PLOT DATE: 02/28/2024 8:38:02 AM



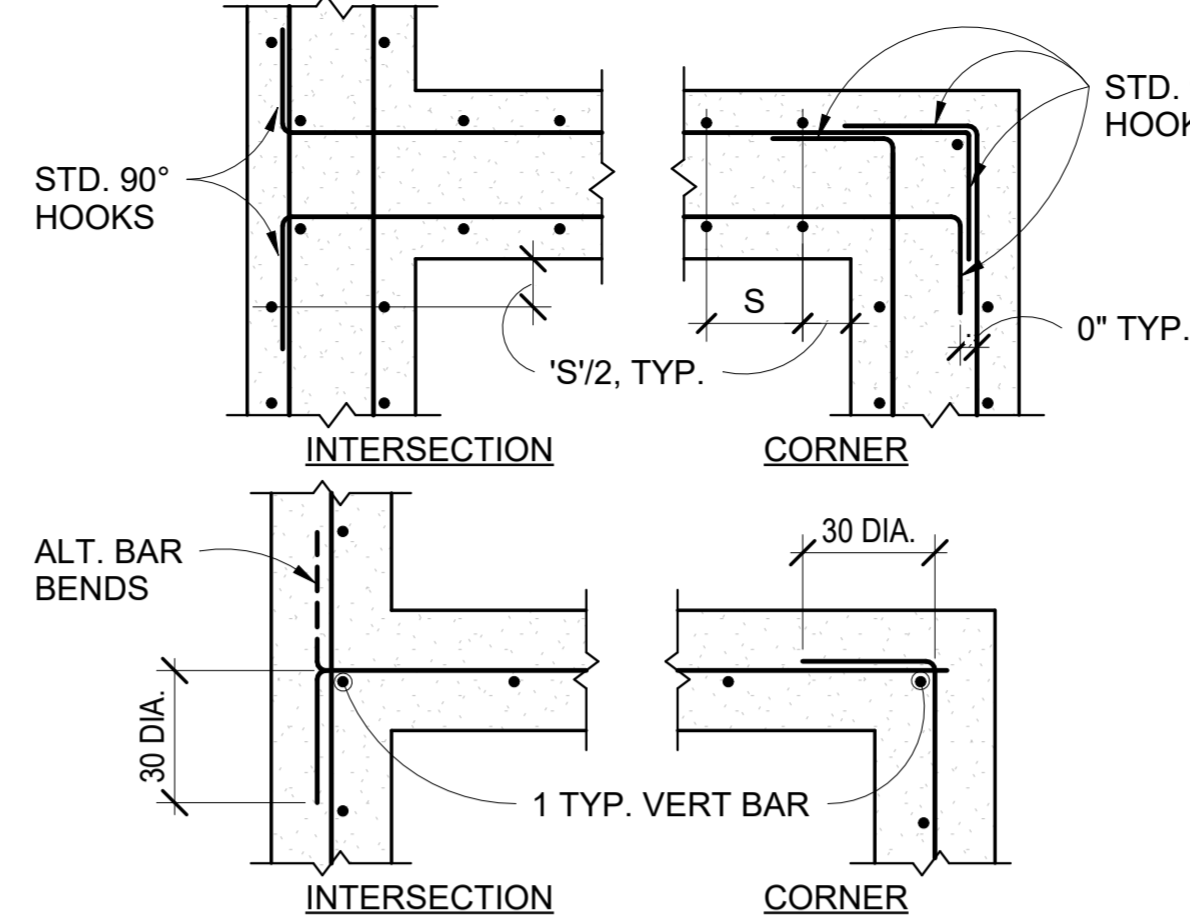
NOTE: THE CONTRACTOR SHALL BE RESPONSIBLE FOR SHOWING, SHEATHING OR OTHERWISE MAINTAINING THE SIDES OF THE EXCAVATION FROM CAVE-INS UNTIL ALL BACKFILL IS COMPLETED PER SPECIFICATIONS

1 TYP. EXCAVATION DETAILS
NO SCALE

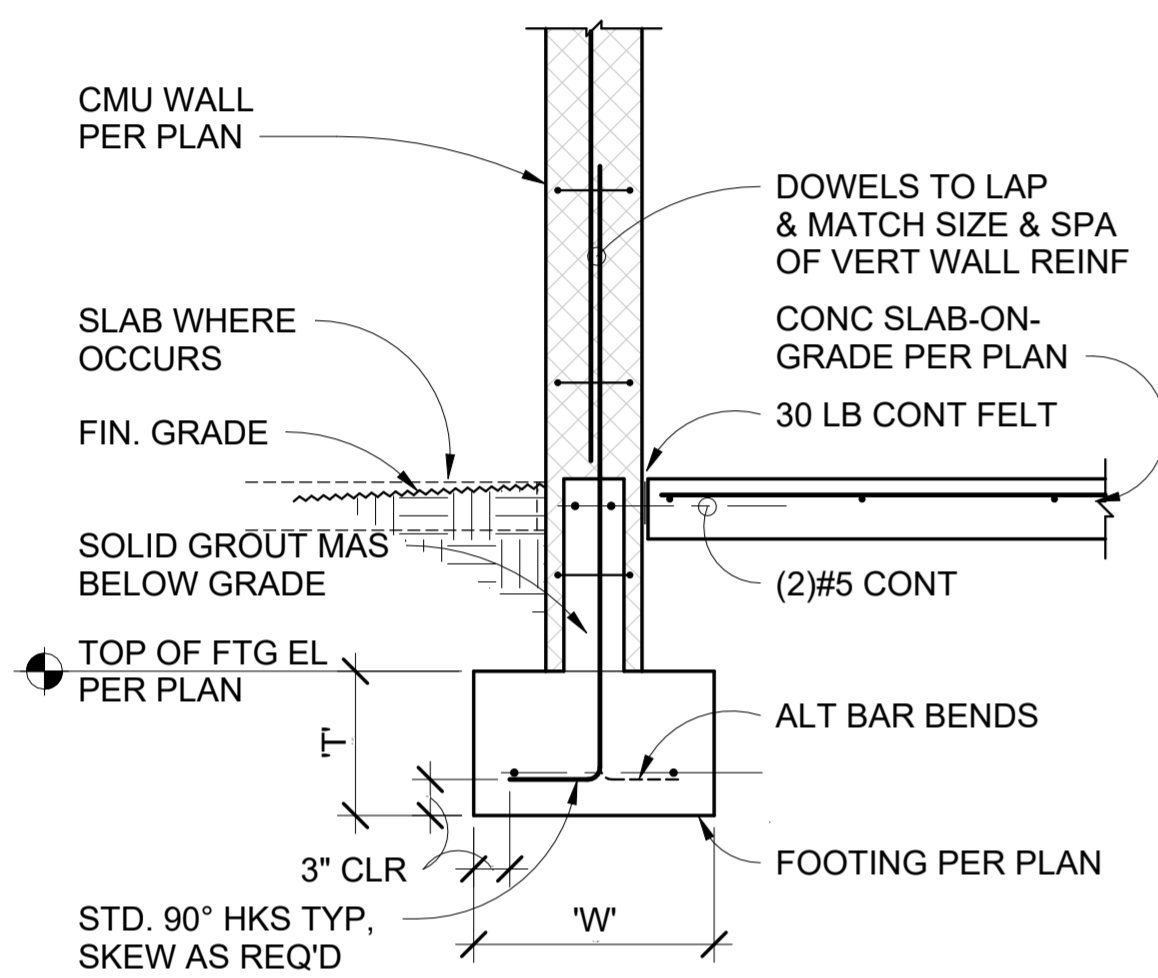


NOTE: FOR PIPES 3'-0" OR LESS BELOW FTG., PROVIDE SLEEVE AND CONCRETE AS SHOWN. MORE THAN 3'-0" COMPACT BACKFILL OVER PIPE TO 90% AS APPROVED BY SOILS ENGINEER, OR USE STEPPED FOOTING BELOW PIPE.

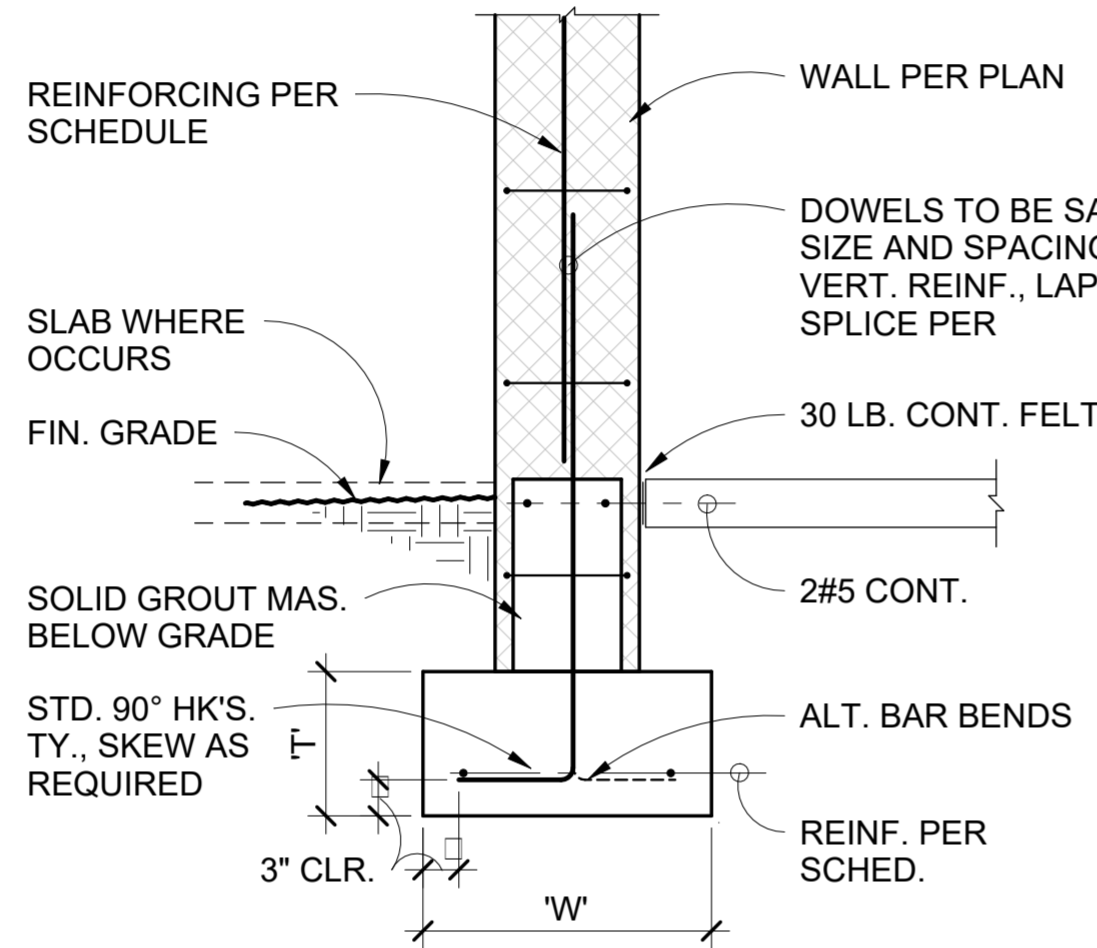
2 TYP REINF. AT CONC. WALL & FTG.
NO SCALE



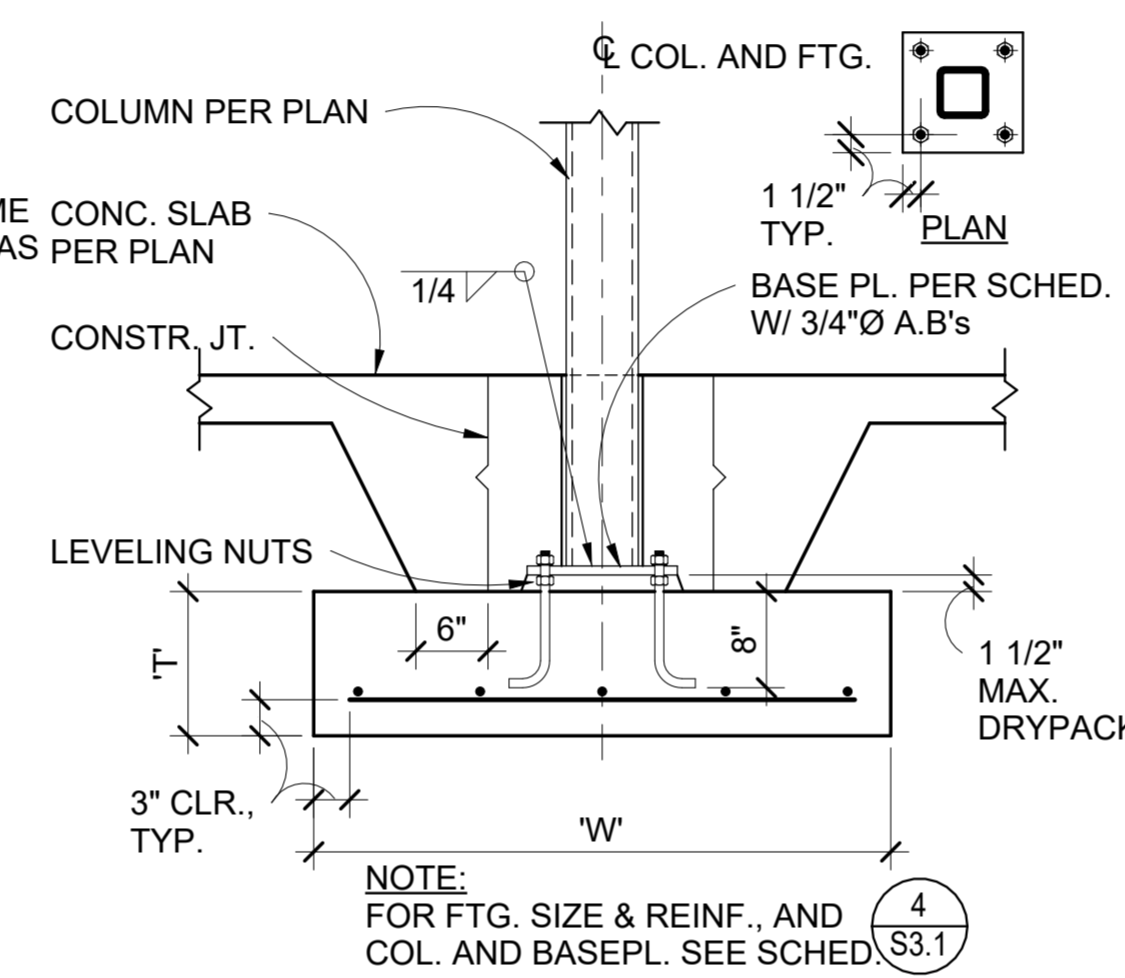
3 TYP. STEPPED FOOTING
NO SCALE



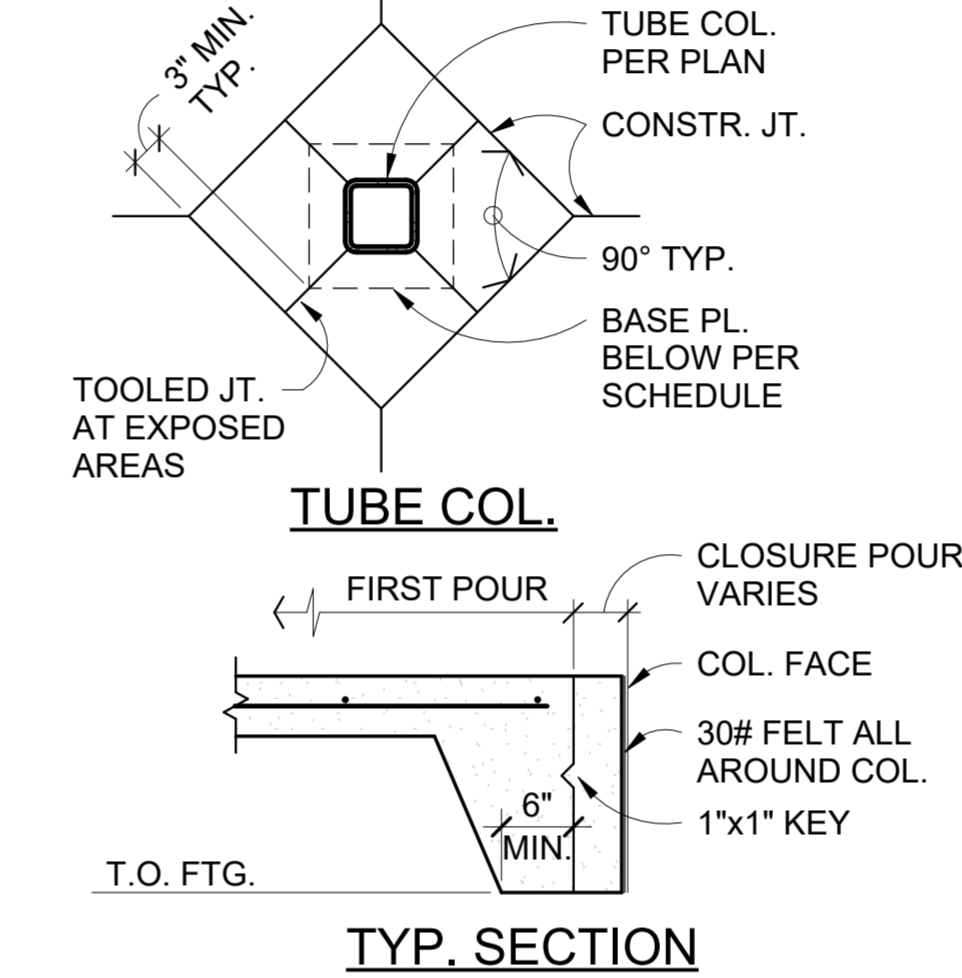
4 TYP MASONRY WALL FTG (8" CMU WALL)
3/4" = 1'-0"



5 TYP CONT WALL FTG (12" CMU WALL)
3/4" = 1'-0"



6 TYP INTERIOR COL FTG
3/4" = 1'-0"

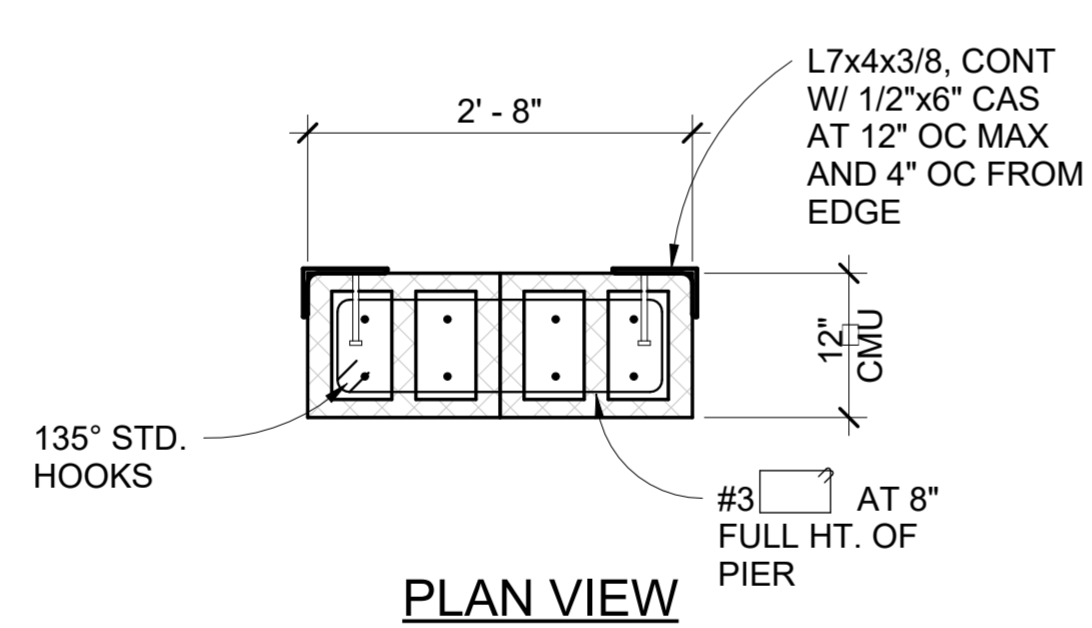


7 TYP. CONSTR. JOINT AT COL.
NO SCALE

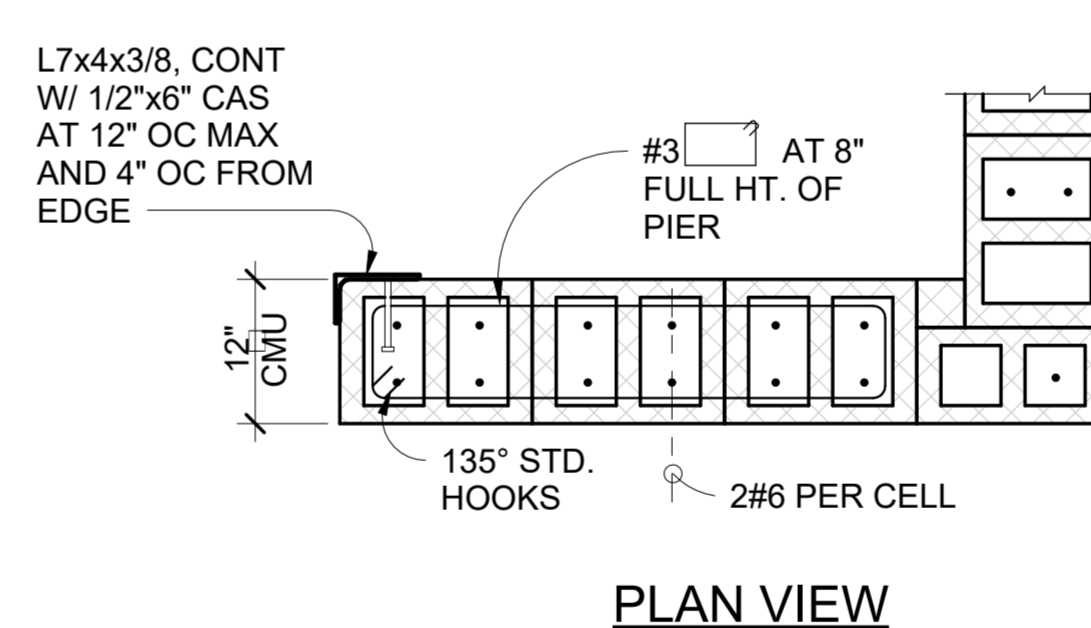
BAR SIZE	LAP SPLICE LENGTH IN INCHES	
	BOTTOM BARS	TOP BARS (SEE NOTE 3)
#4	29	37
#5	36	47
#6	43	56

- NOTES:
- CONCRETE LAP SPLICE LENGTH IS FOR GRADE 60 REINFORCING, CONCRETE STRENGTH OF 3000 PSI.
 - PROVIDE THE SCHEDULED LAP SPLICE UNLESS SPECIALLY DETAILED OTHERWISE ON STRUCTURAL DRAWINGS.
 - TOP BARS ARE HORIZONTAL BARS IN WHICH 12" OR MORE OF CONCRETE IS PLACED BELOW THE BARS.

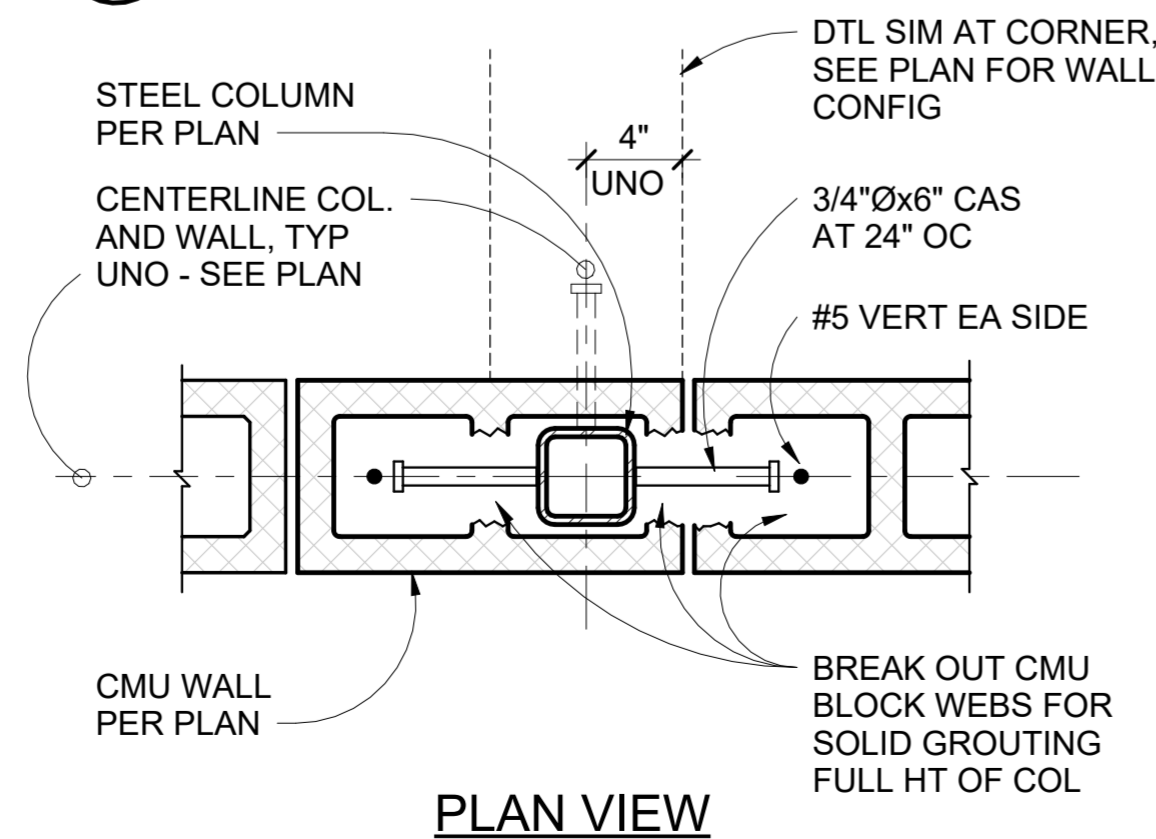
9 CONC. REINF. LAP SPLICE SCHED
NO SCALE



10 PIER DETAIL
3/4" = 1'-0"

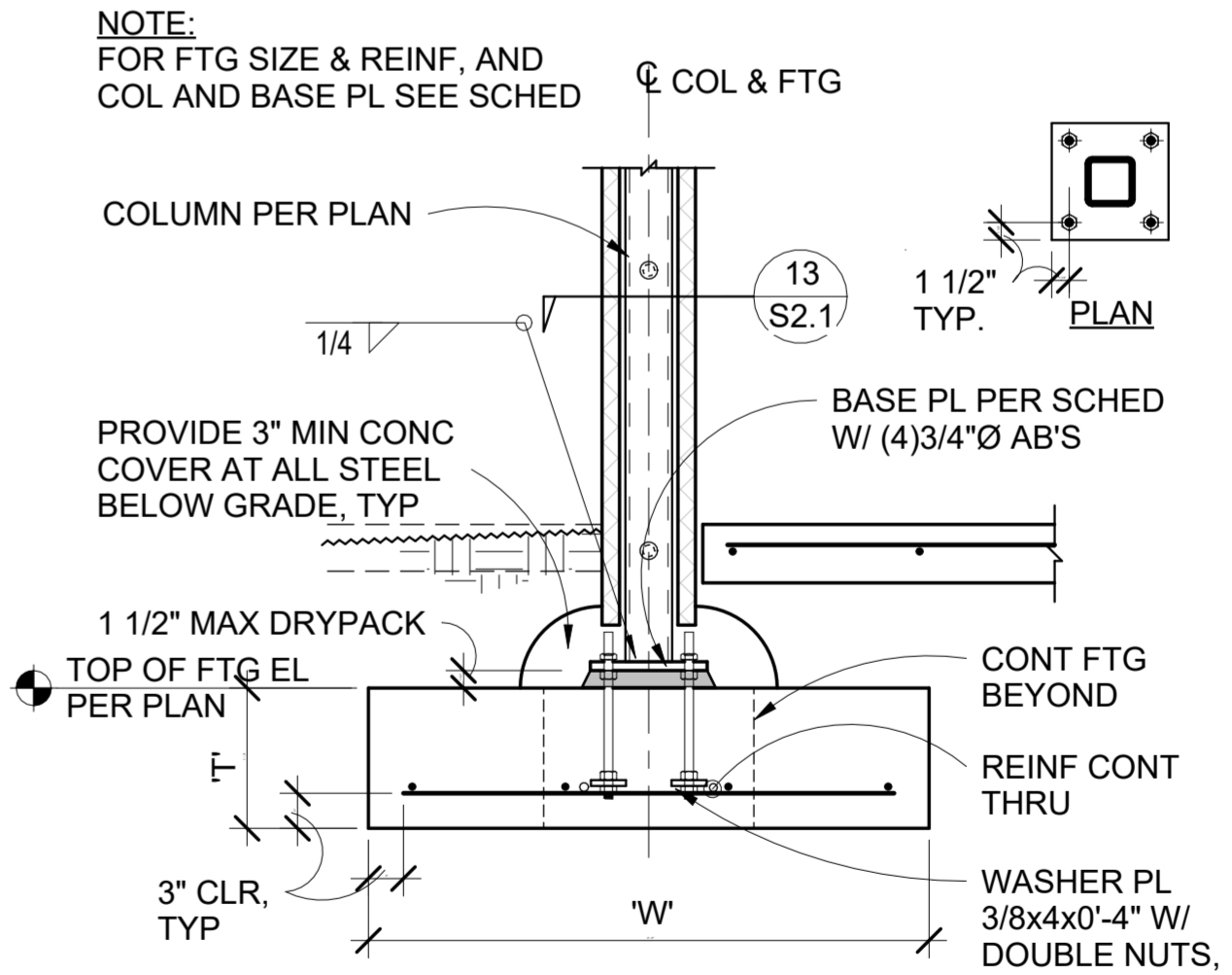


11 PIER DETAIL
3/4" = 1'-0"



12 TYP COLUMN IN MASONRY WALL
3/4" = 1'-0"

13 TYP STEEL COL IN MAS WALL
NO SCALE



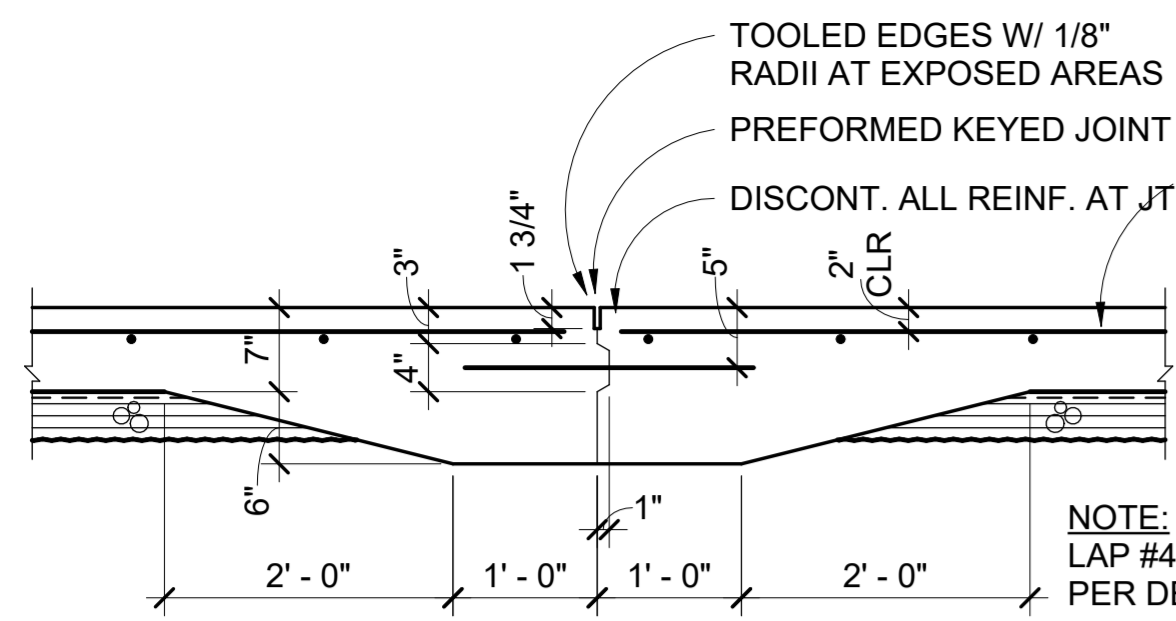
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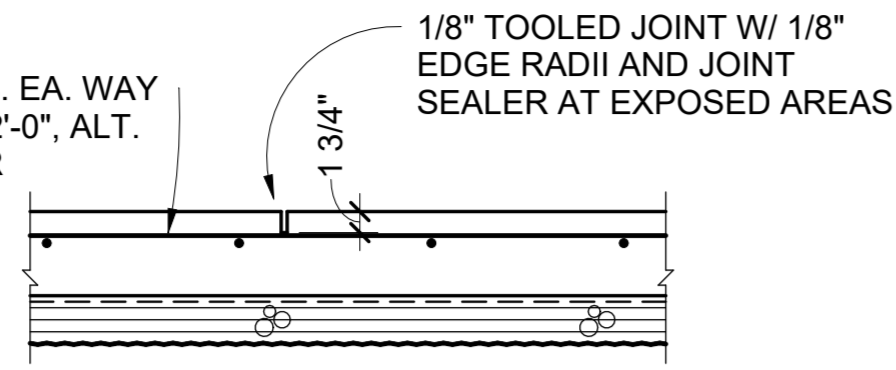
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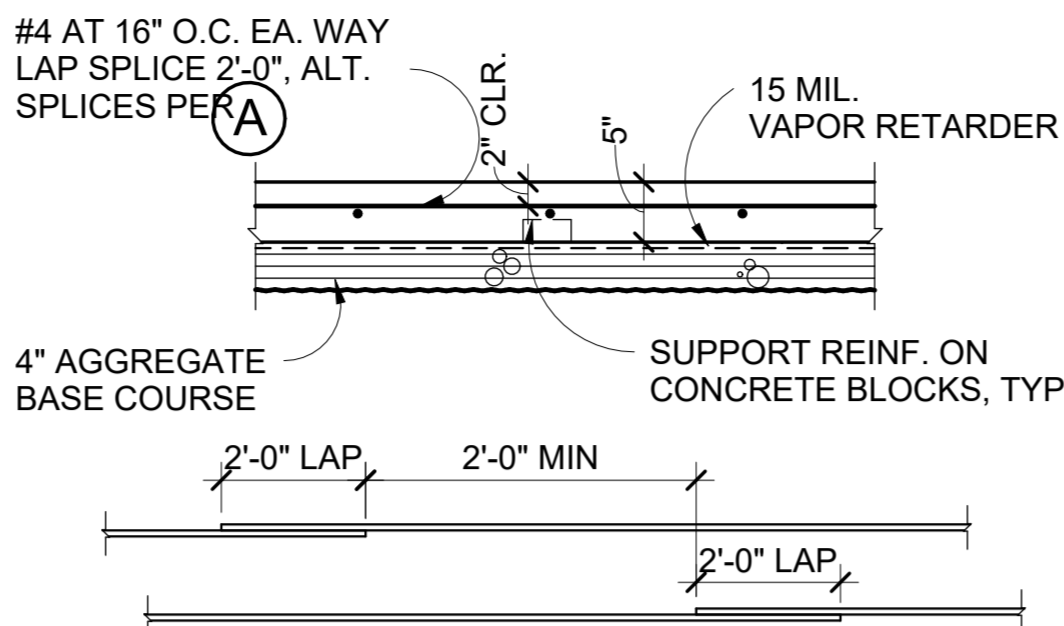
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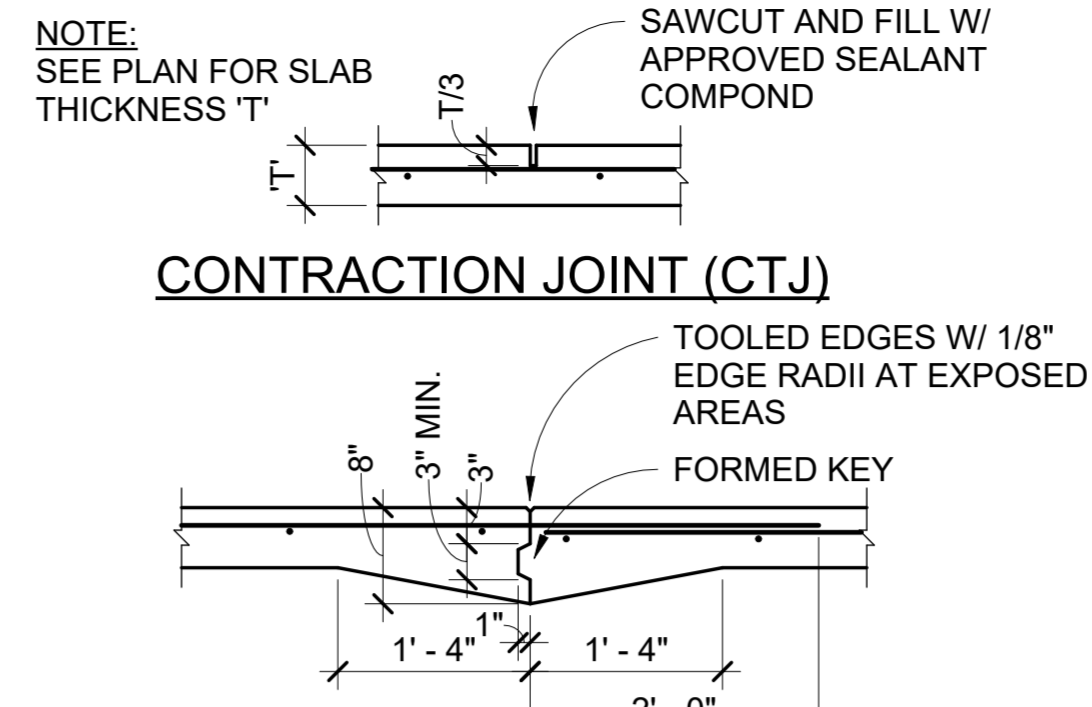
CONSTRUCTION JOINT (CJ)



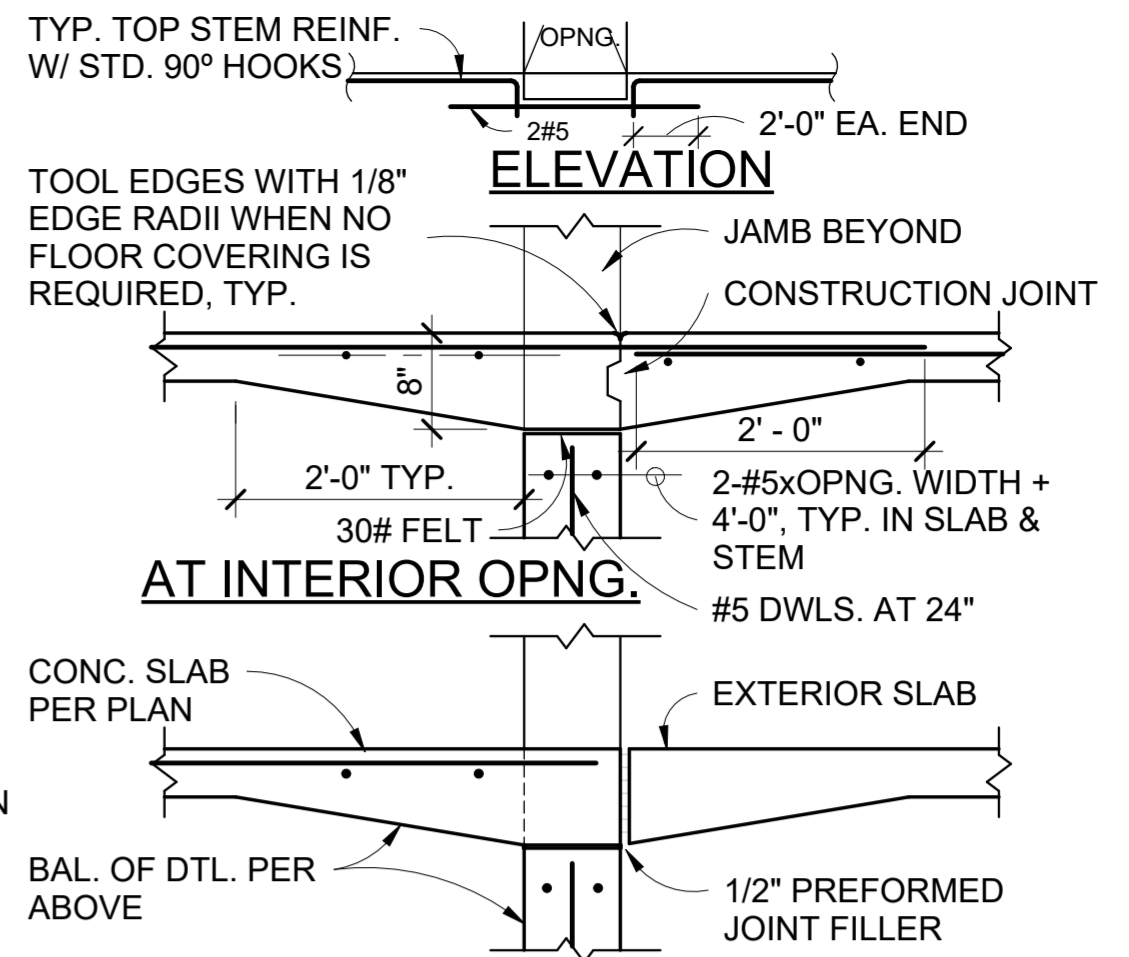
CONTRACTION JOINT (CTJ)



SPLICE DETAIL



CONTRACTION JOINT (CJ)



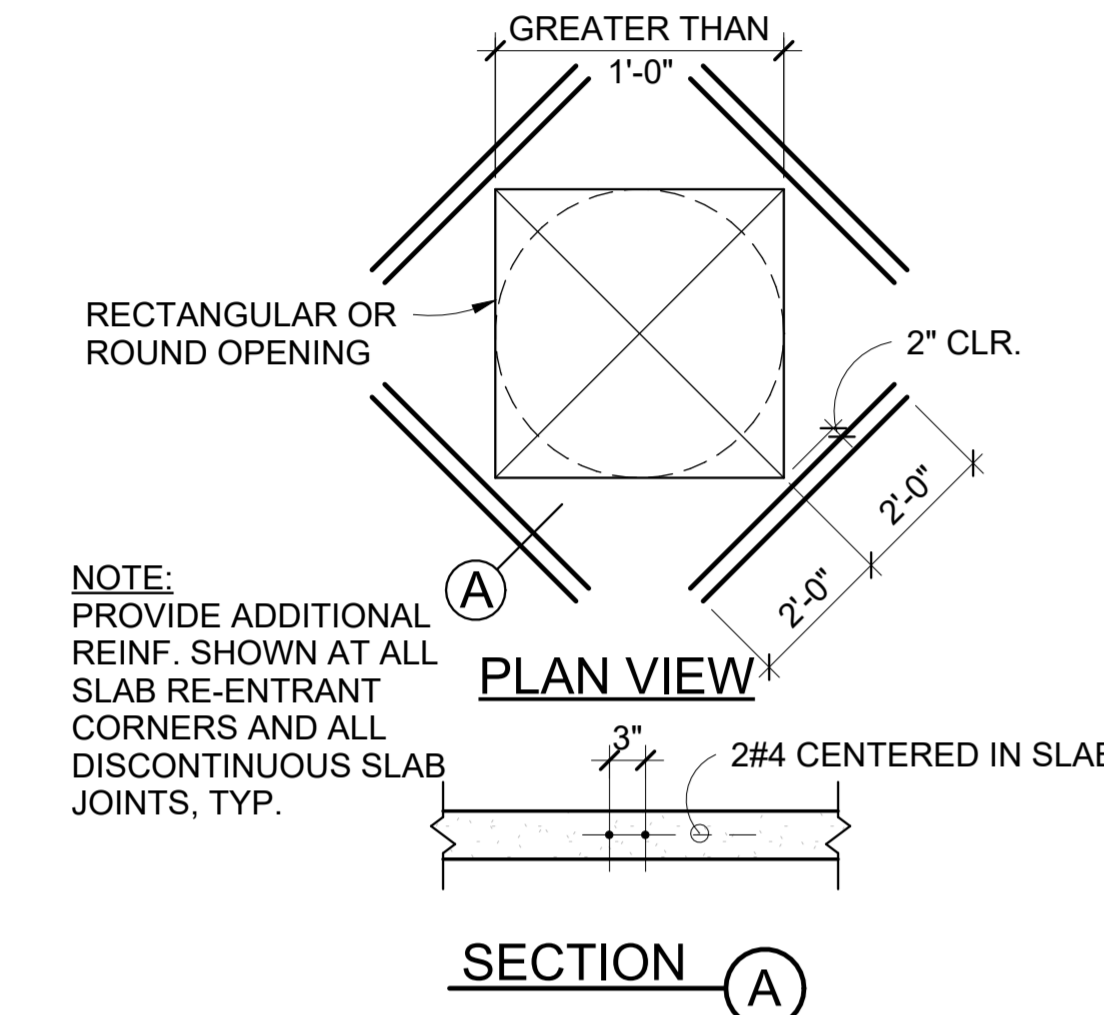
CONSTRUCTION JOINT (CJ)

1 TYP. JOINTS IN 7" SLAB ON GRADE
NO SCALE

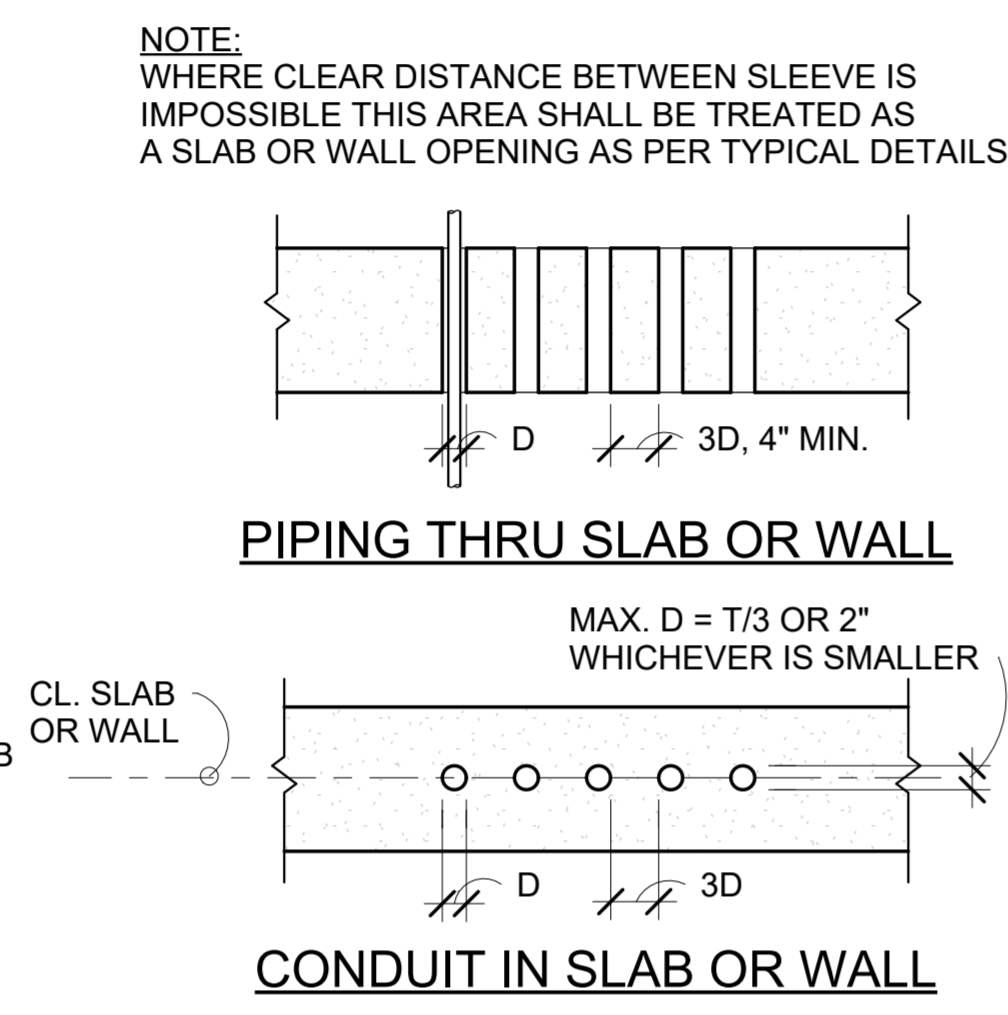
2 TYP. 5" SLAB ON GRADE
NO SCALE

3 TYP. JOINTS IN 5" SLAB
NO SCALE

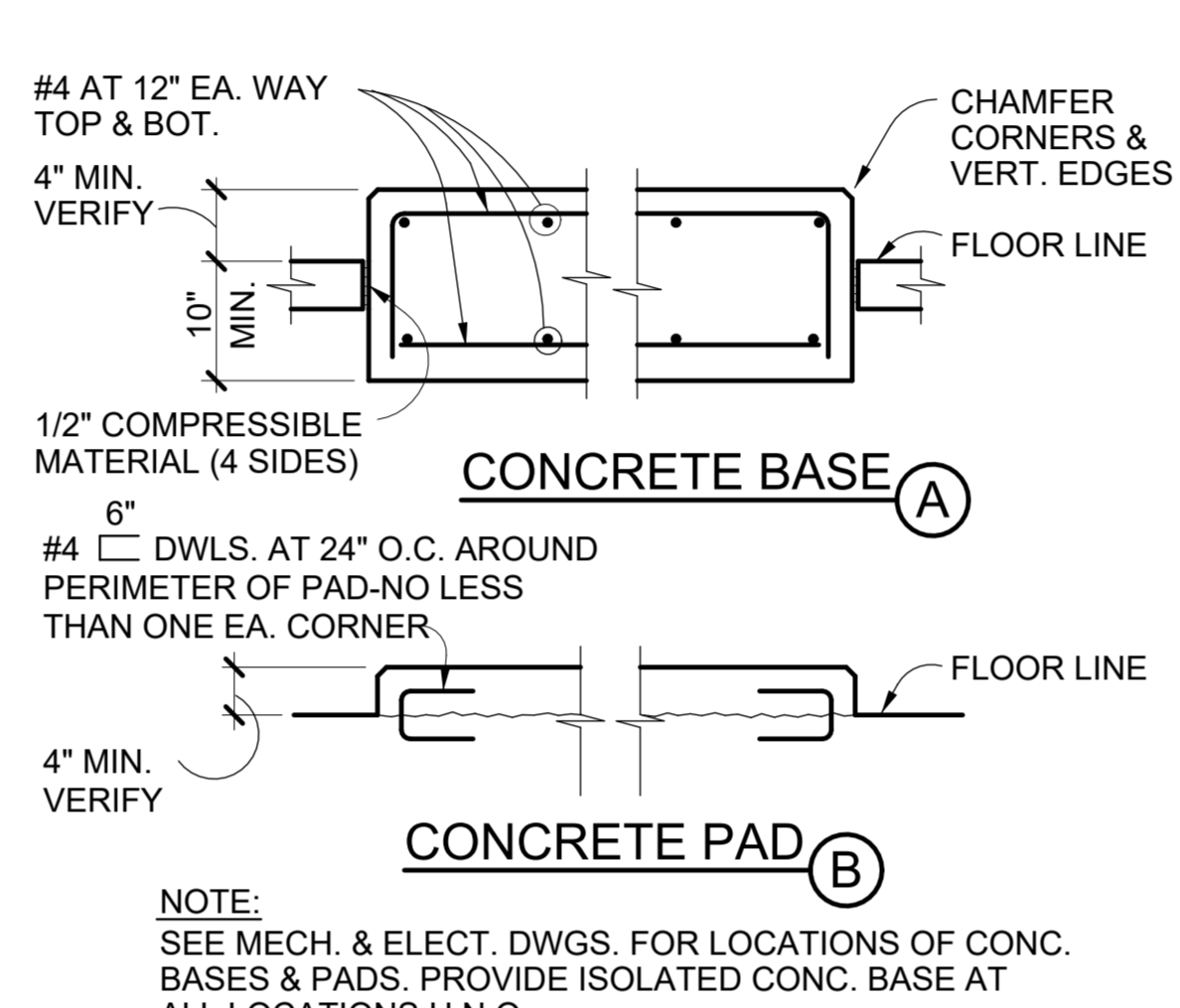
4 TYP. SLAB SEPERATIONS
NO SCALE



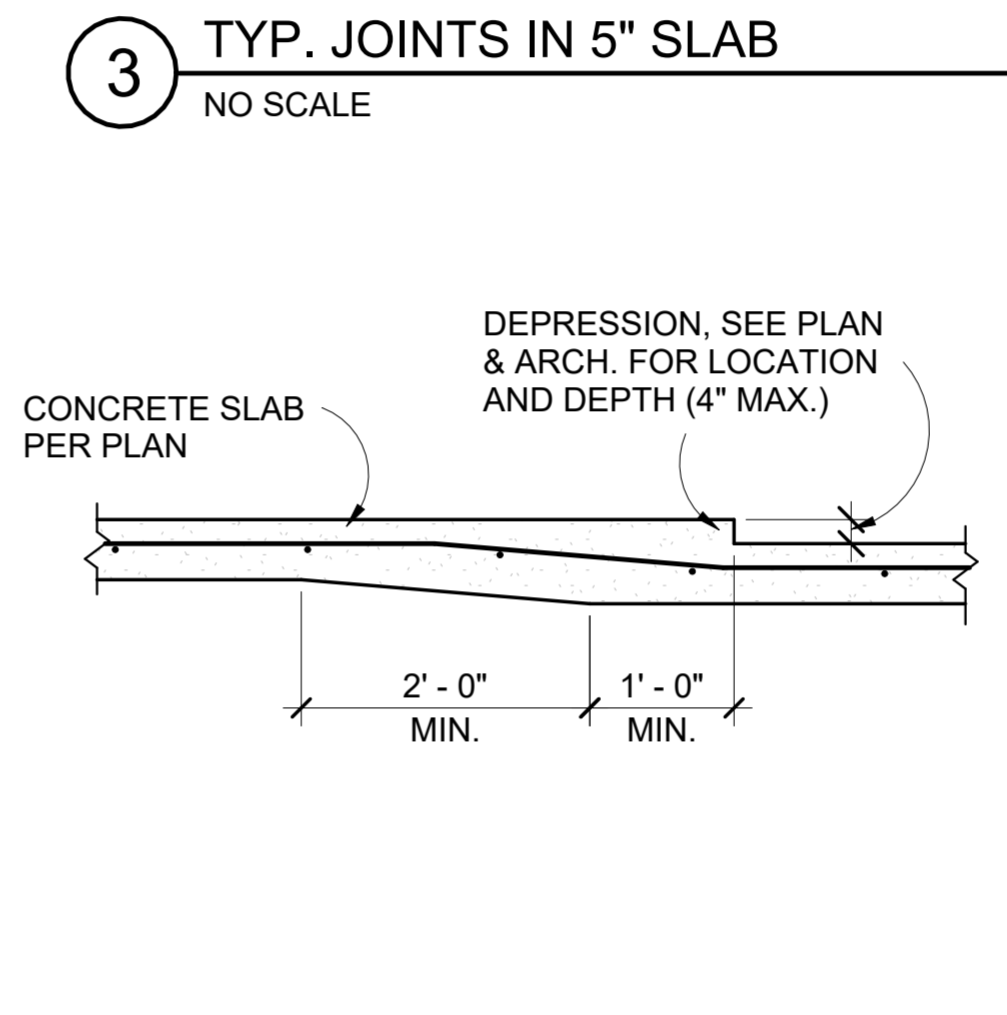
5 TYP. OPENING IN SLAB ON GRADE
NO SCALE



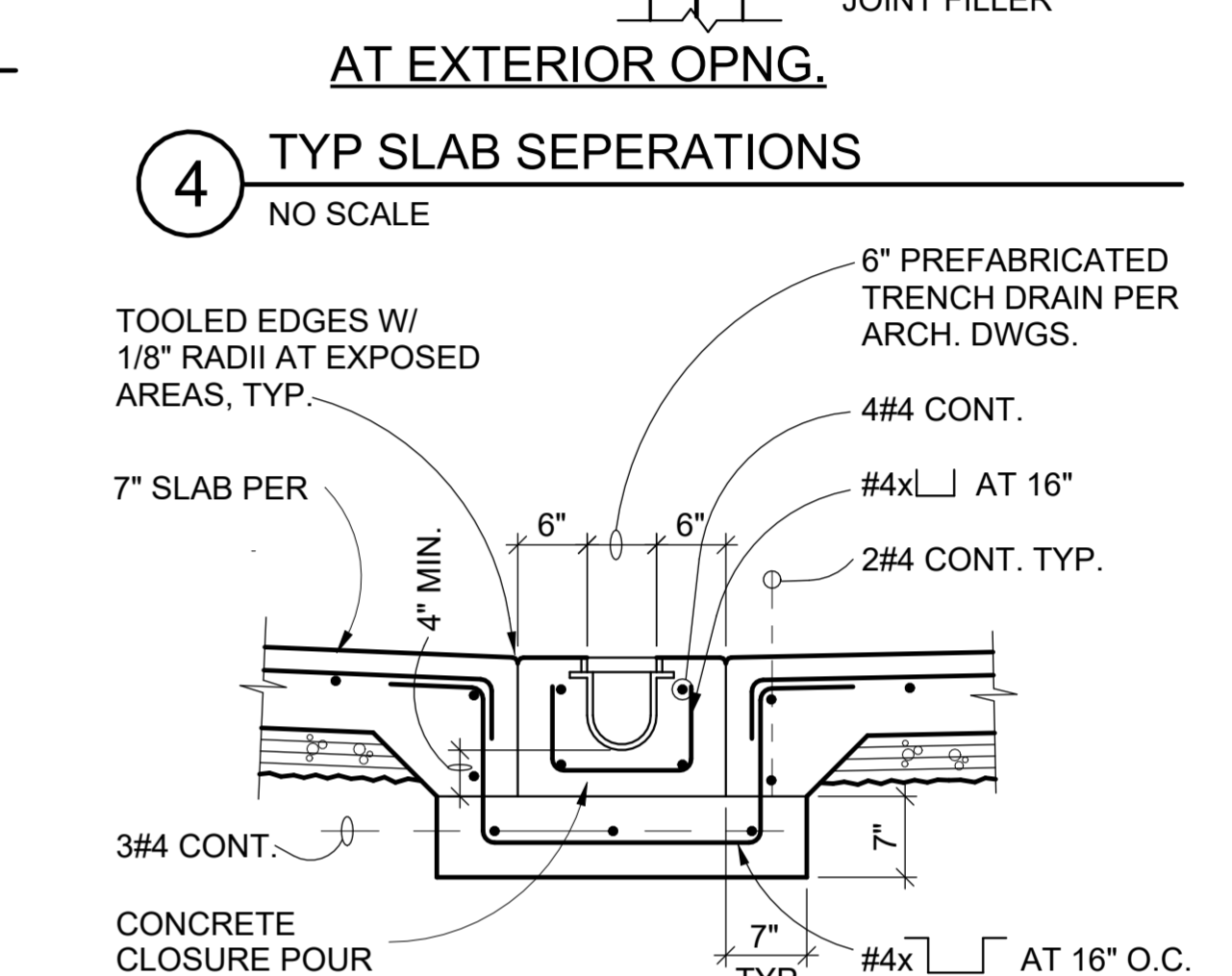
6 TYP. PIPING & CONDUIT DETAILS
NO SCALE



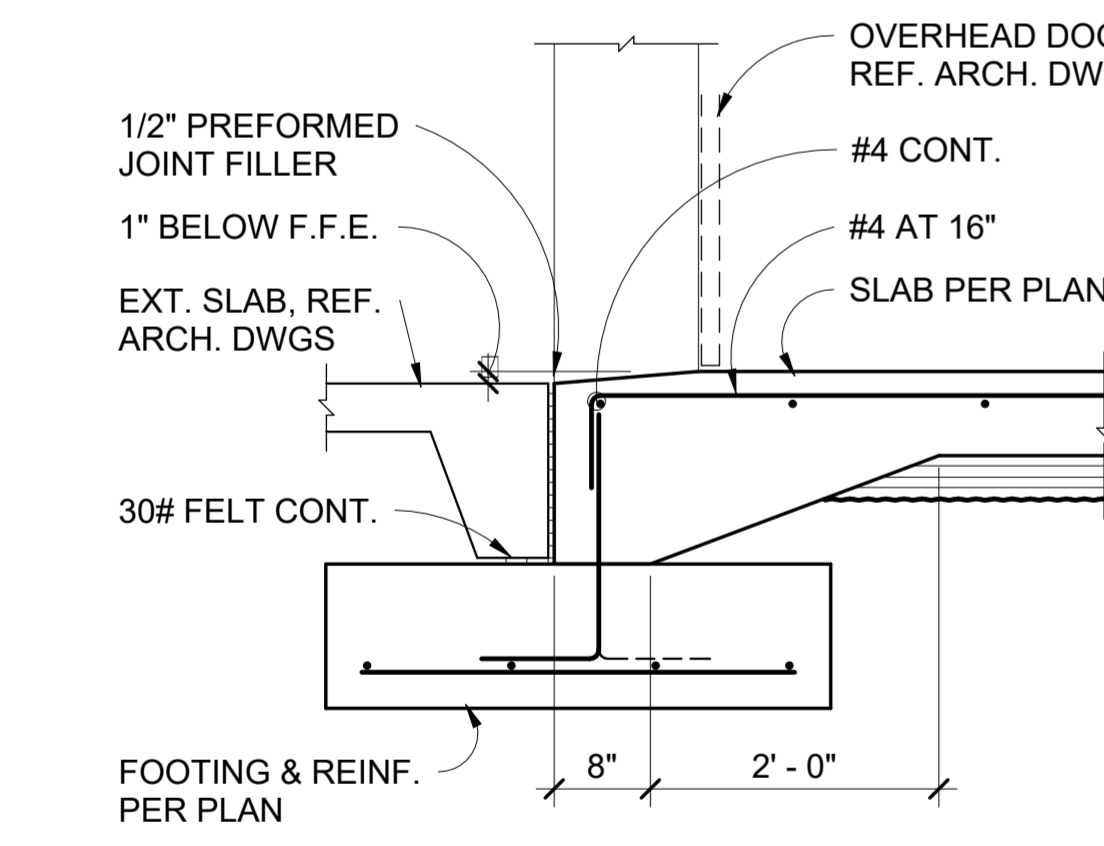
7 TYP. CONC. BASE & PAD FOR EQUIP.
NO SCALE



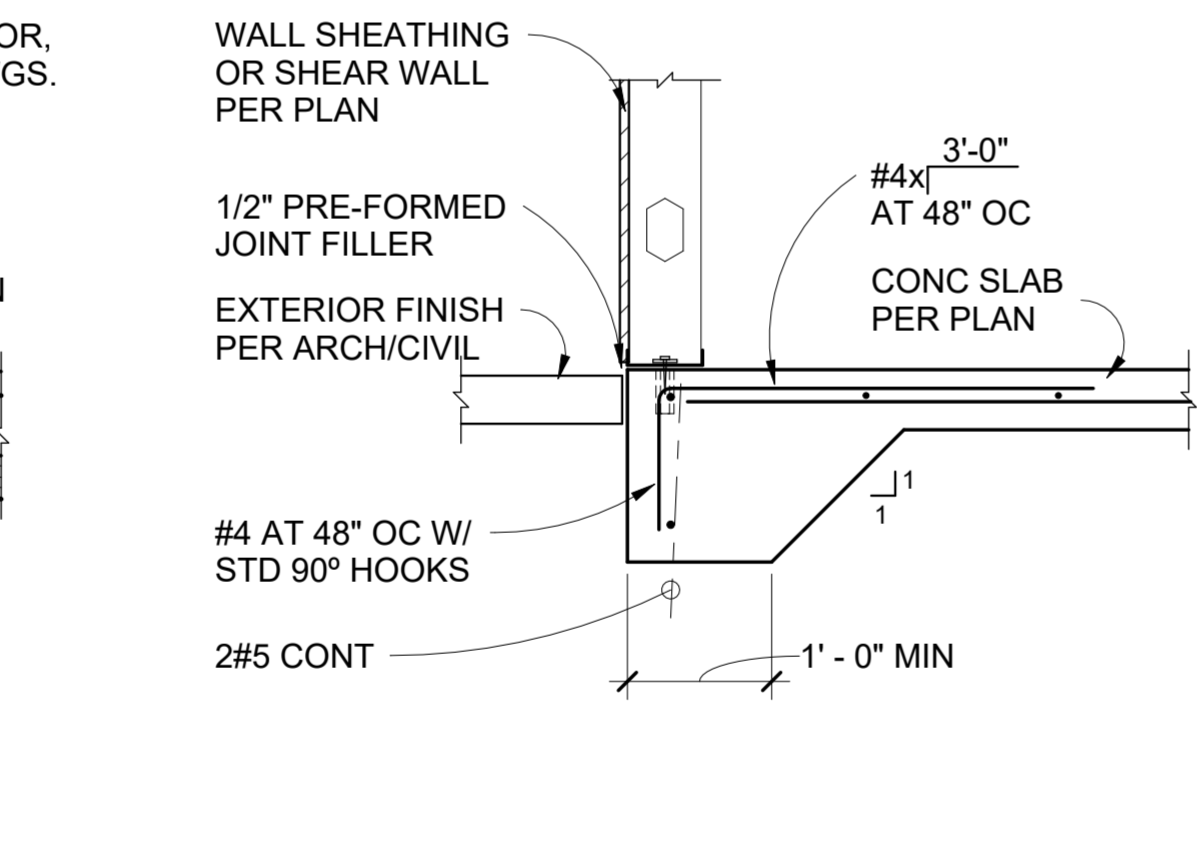
8 TYP. DEPRESSED SLAB
NO SCALE



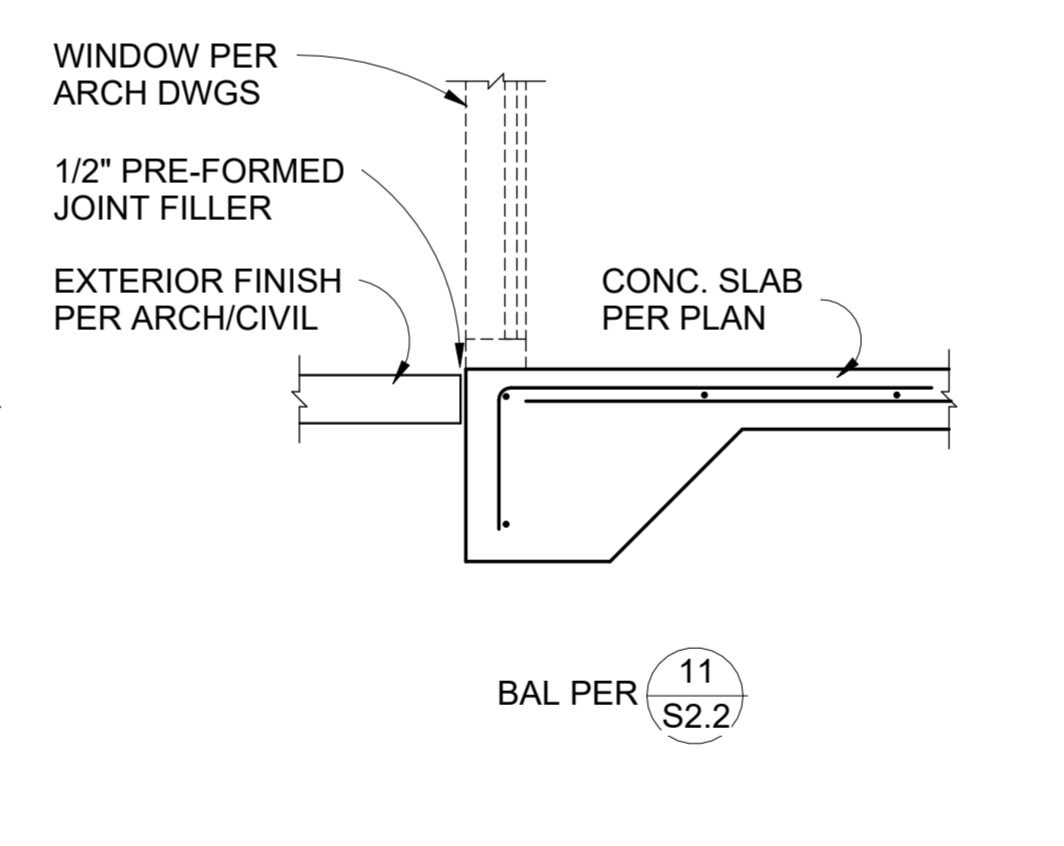
9 TRENCH DRAIN
3/4" = 1'-0"



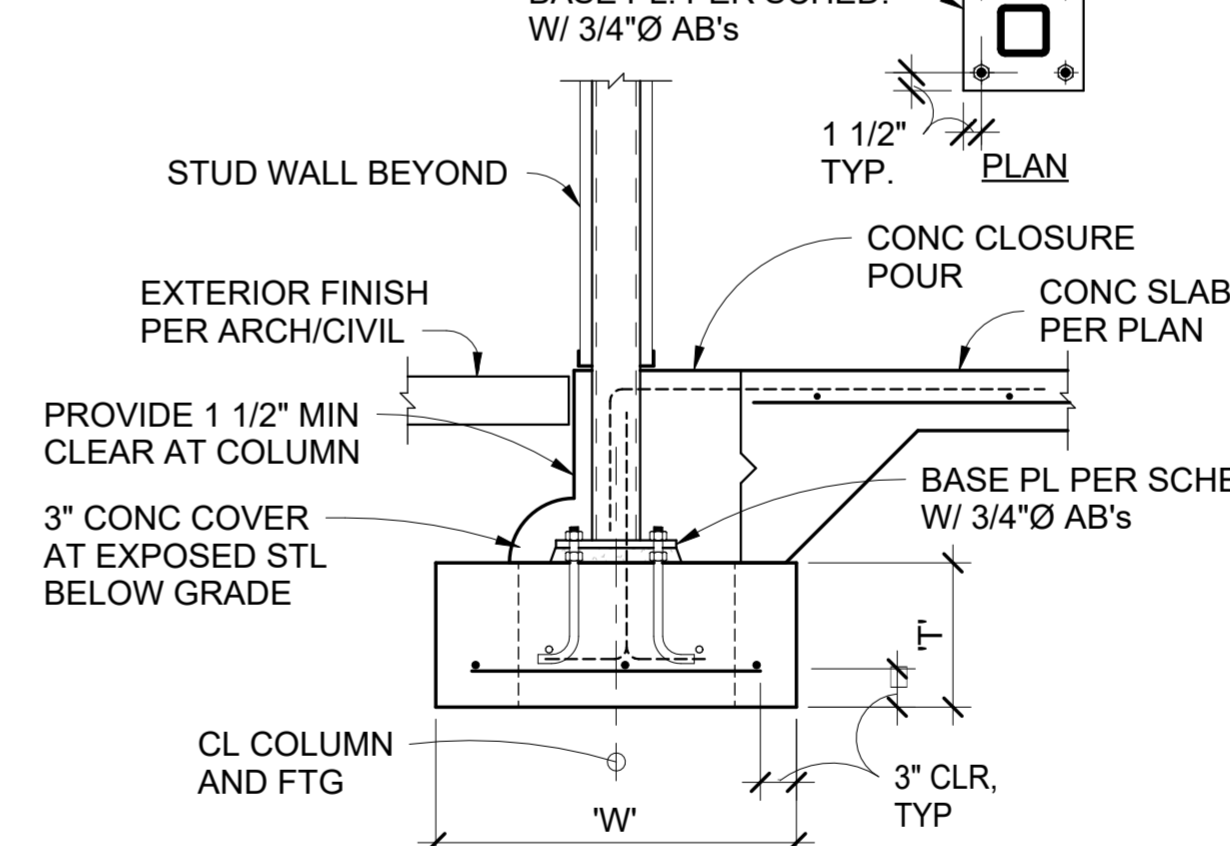
10 TYP. SLAB EDGE AT APPARATUS BAY DOOR
3/4" = 1'-0"



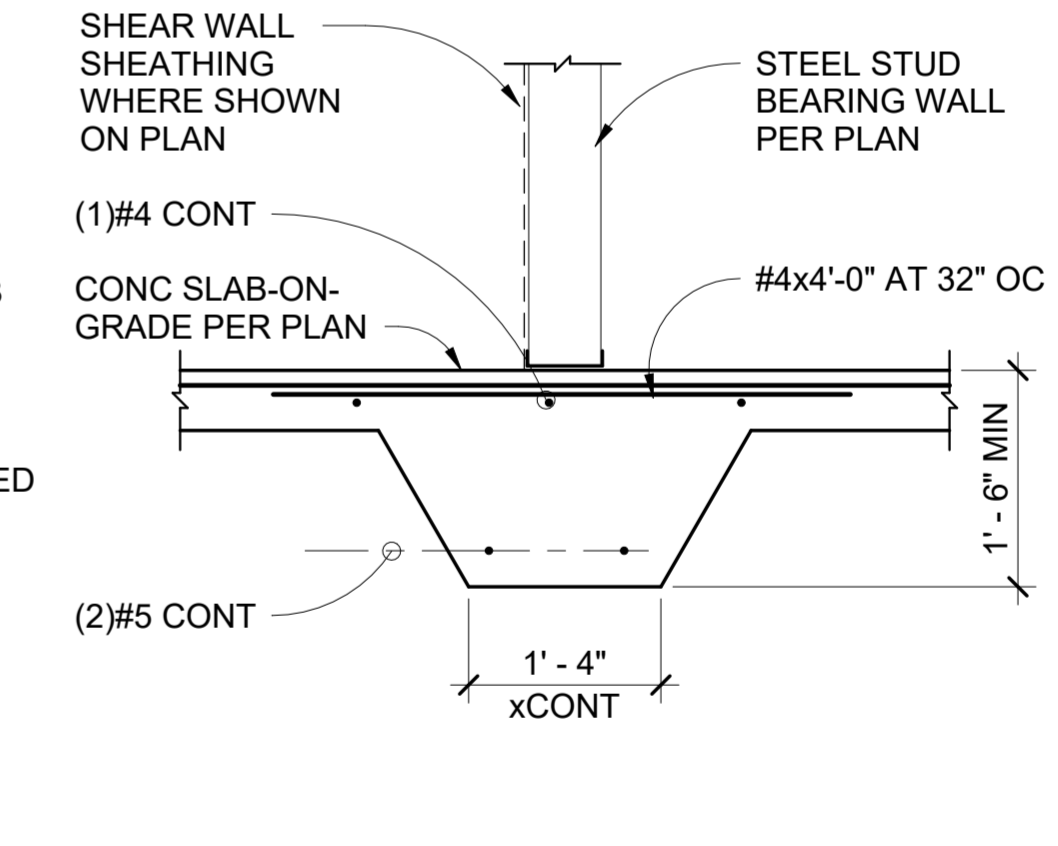
11 SLAB EDGE AT STEEL STUD WALL
3/4" = 1'-0"



12 WINDOW WALL AT EXT FOOTING
3/4" = 1'-0"



13 STEEL COLUMN AT EXT WALL
3/4" = 1'-0"



14 TYP INT STUD BRG WALL FTG
3/4" = 1'-0"

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Tubac Fire Station #1
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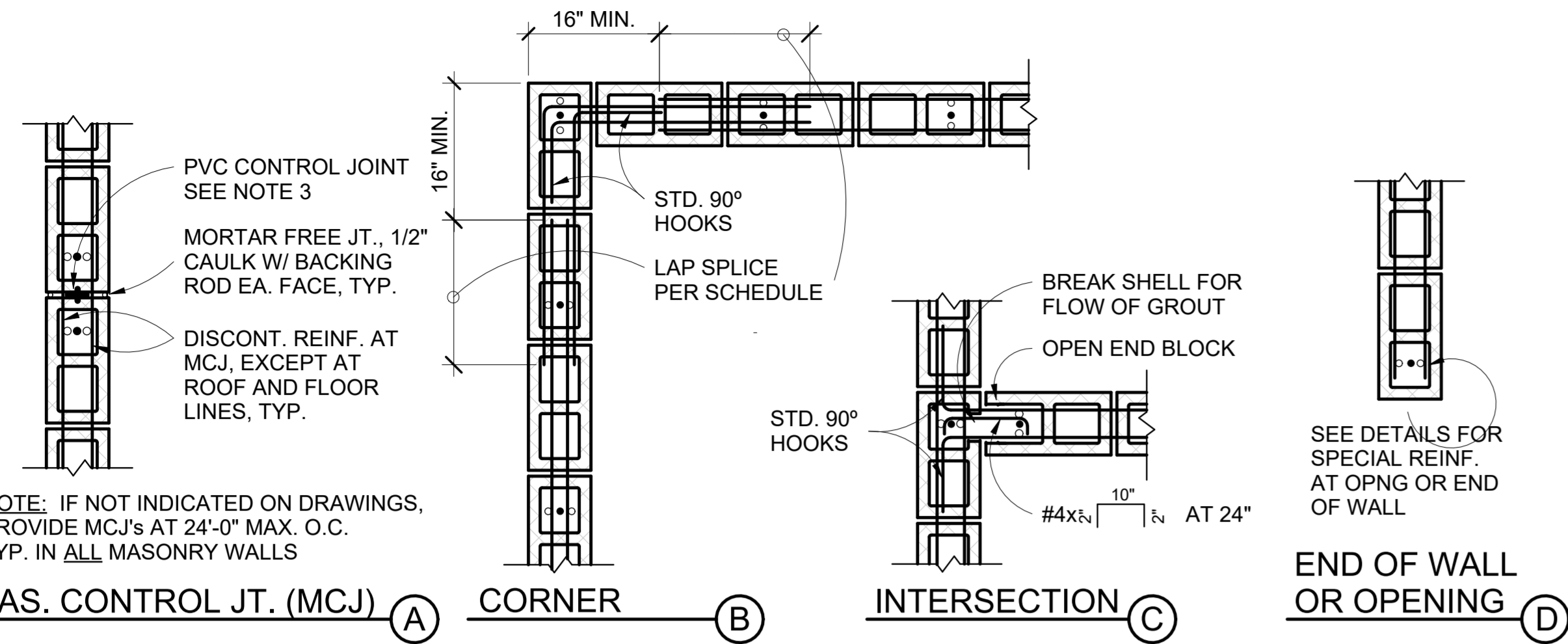
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Structural Details
S22

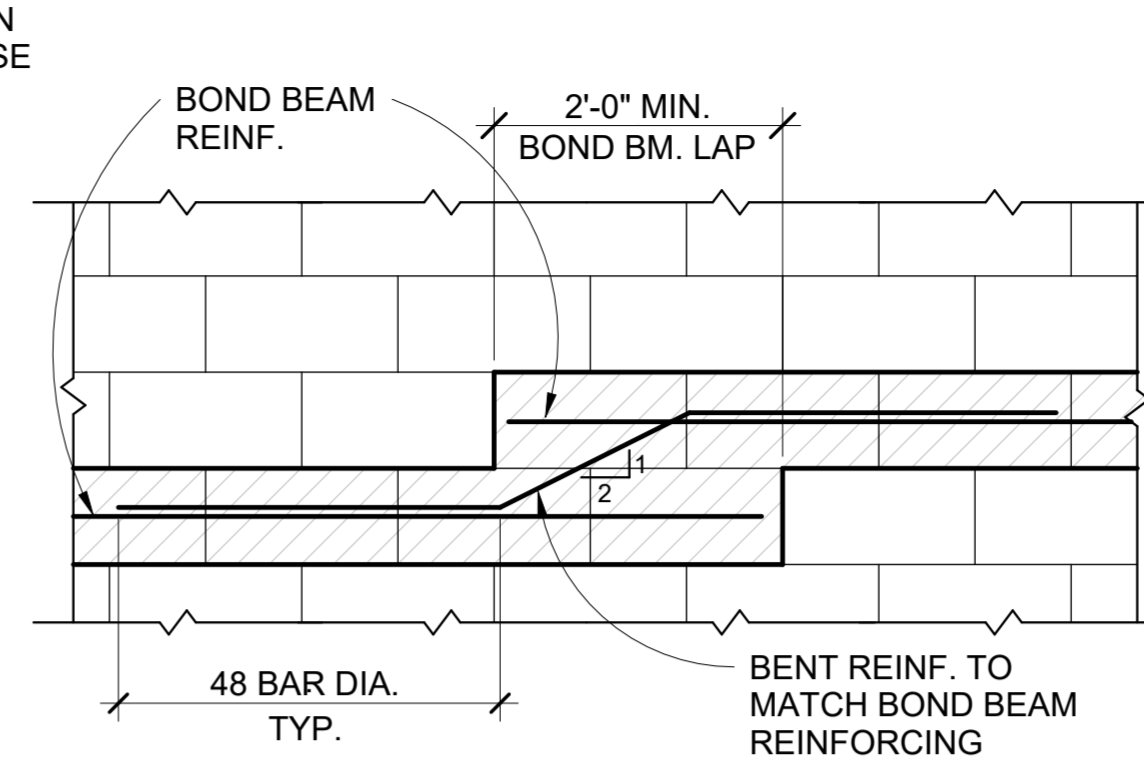
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STRUCTURAL ENGINEERS, INC.



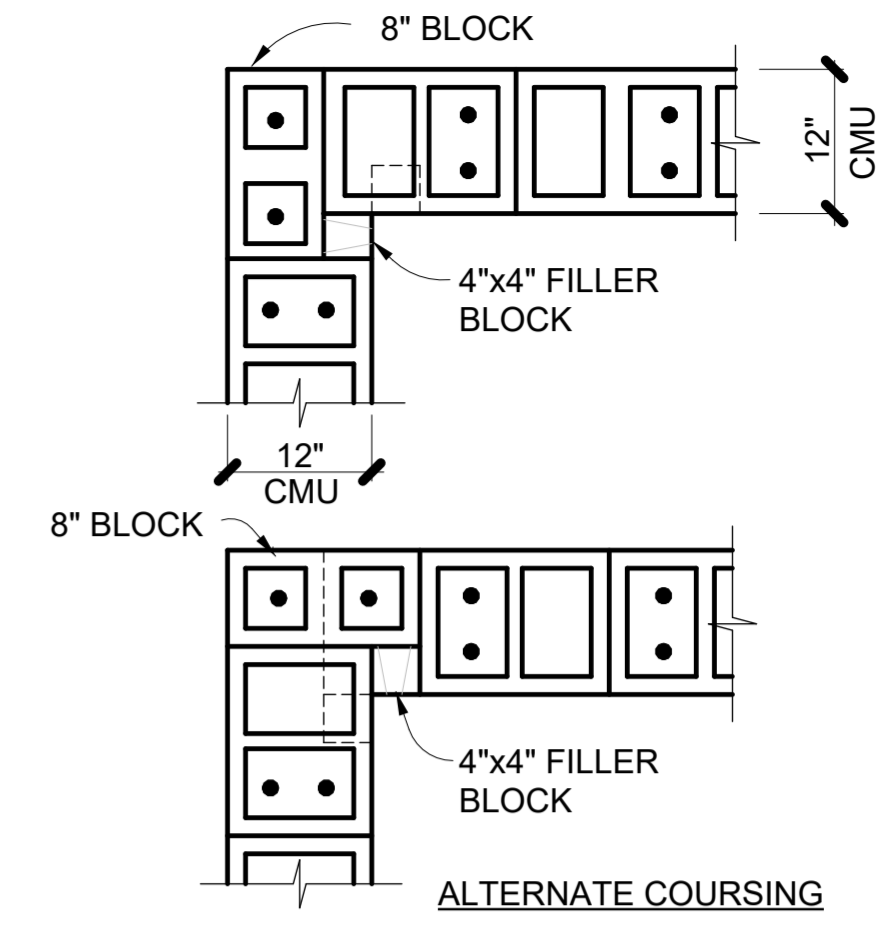
1 TYP MIN MASONRY REINF DETAILS
NO SCALE

NOTES:

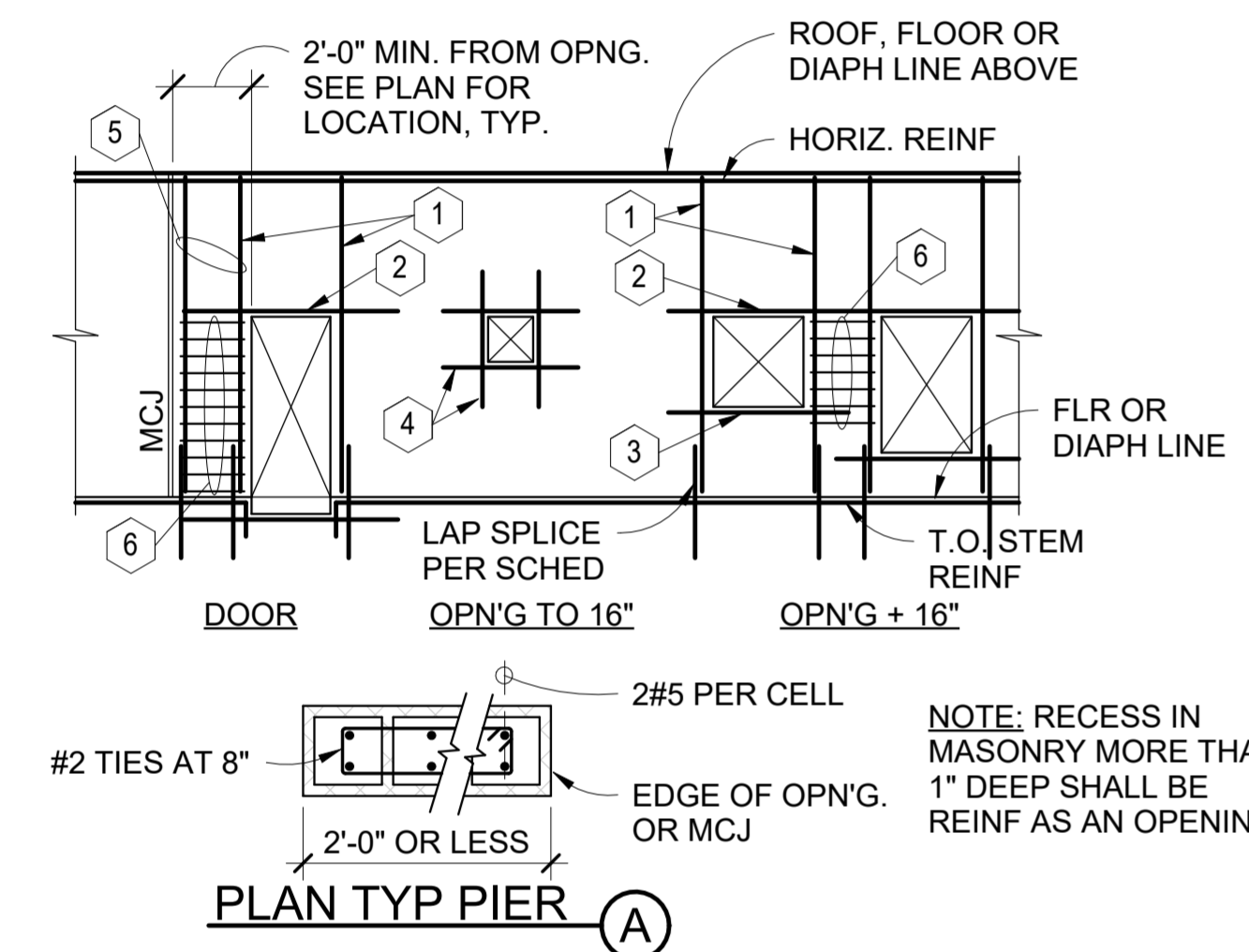
- WHERE VERT. OR HORIZ. BARS ARE SHOWN IN THIS DETAIL, PROVIDE BARS OF SAME SIZE AND DETAIL AS SHOWN ON DRAWINGS FOR WALLS. WHERE SIZE IS NOT SHOWN, USE AT LEAST #5 VERTS. AND #4 HORIZ.
- () INDICATES LOCATION OF VERT. BARS PLACED AT CENTERLINE OF WALL. (1BAR PER CELL). () INDICATES LOCATION OF VERT. BARS PLACED AT EACH FACE OF WALL. (2 BARS PER CELL). SEE DRAWINGS FOR VERTICAL REINFORCING. POSITION VERT. BARS IN CELLS AS FOLLOWS:
EQ. EQ. 2 5/8" 2 5/8"
SINGLE BAR/CELL DOUBLE BAR/CELL
- EXTEND MCJ FULL HEIGHT OF MASONRY WALL. ALL HORIZ. REINF. TERMINATES AT MCJ EXCEPT FOR BOND BEAM REINF. AT FLOORS AND ROOFS, WHICH EXTEND CONTINUOUS THRU. LOCATE MCJ'S PER PLAN. (DO NOT LOCATE WITHIN 2'-0" OF OPENING)



2 STEP IN BOND BM
NO SCALE



3 TYP 12" CMU DETAILS
NO SCALE



4 TYP SPECIAL WALL REINFORCING AT OPENING IN MAS WALLS
NO SCALE

JAMB BARS (RUN FULL HT FROM DIAPH TO DIAPH):

OPNG. WIDTH	WALL VERTS.
UP TO 4'-0"	2#5
OVER 4'-0" TO 8'-0"	4#5
OVER 8'-0" TO 12'-0"	6#5

Other notes:
 (2) LINTEL PER SCHEDULE, U.N.O.
 (3) SILL BARS: 2#4 IN 8" DEEP BOND BEAM, PROJECT 2'-0" PAST JAMBS.
 (4) 1#4 EACH SIDE, PROJECT 2'-0" PAST OPENING IN SOLID GROUTED 8" CELL OR 8" DEEP BOND BM.
 (5) PIER REINF REQUIRED AT 2'-0" OR LESS IN WALL WIDTHS PER DETAIL (A). PIER VERTS TO RUN FULL HT FROM DIAPH TO DIAPH, TIES TO RUN FULL HT OF JAMB(S).
 (6) #2 TIES AT 8" AT PIER, SEE KEYNOTE (5).

CMU REINF LAP SPLICE LENGTHS (IN.)

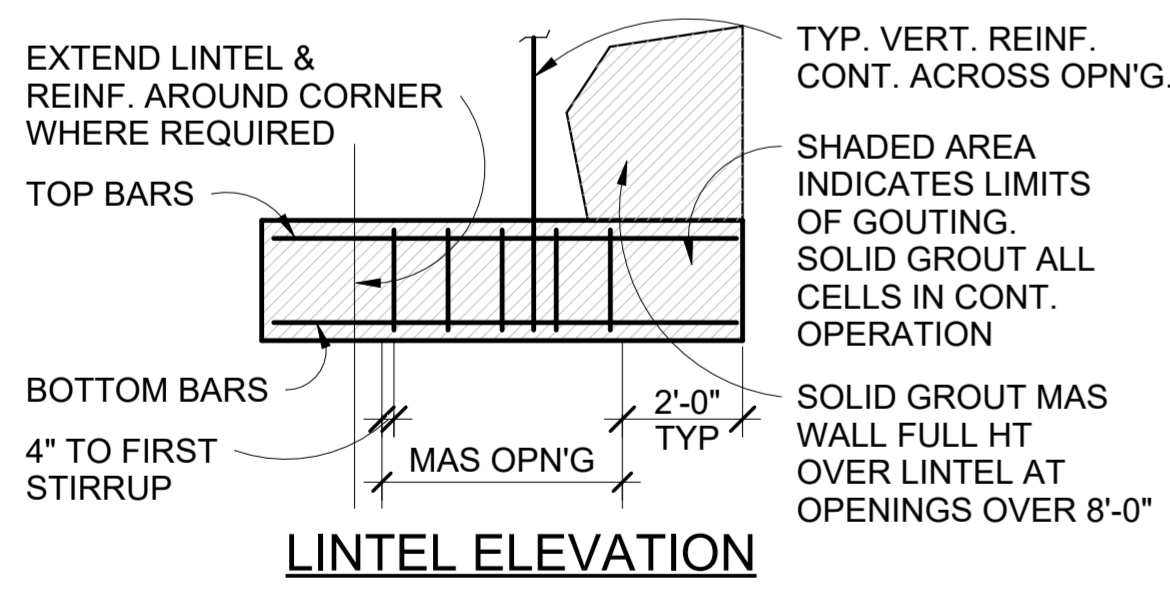
BAR SIZE	LAP SPLICE LENGTH IN INCHES	
	8" CMU	12" CMU
#4	24	
#5	30	
#6	36	

- NOTES:**
- MASONRY DESIGN AND LAP SPLICE BASED ON GRADE 40 REINFORCING, (GRADE 60 REINFORCING TO BE USED).
 - PROVIDE THE SCHEDULED LAP SPLICE UNLESS SPECIFICALLY DETAILED OTHERWISE

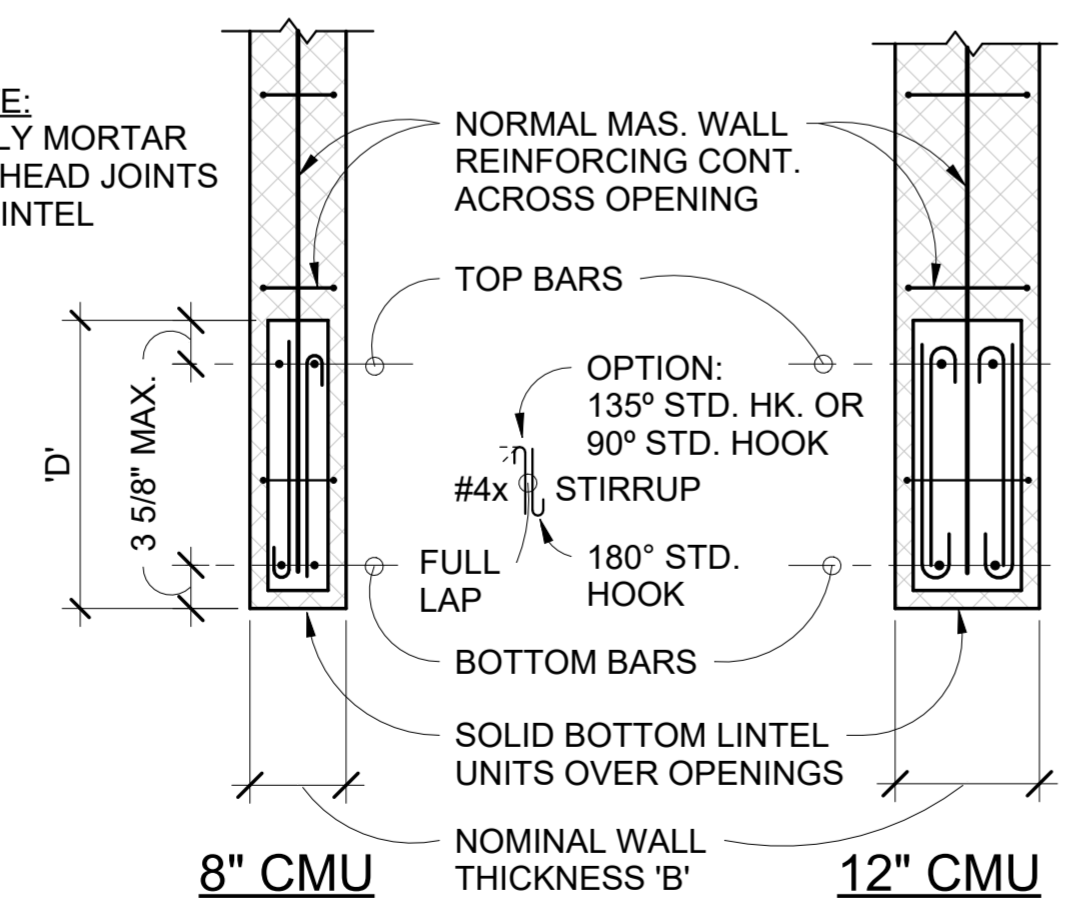
TYPE	REINF. LOCATION	MW1	MW2
		8" CMU	12" CMU
VERT	TYP. THROUGHOUT	#5 AT 48" OC	#5 AT 24" OC
VERT	CORNERS, INTERSECTIONS	#5	(4)#5
VERT	EACH SIDE OF MCJ	#5	(4)#5
VERT	JAMB OF OPENING	SEE ELEVATIONS	SEE OPENINGS
HORIZ	TOP OF WALL	(2)#5	(2)#5
HORIZ	ROOF LINES	(2)#5	(2)#5
HORIZ	LINTELS	SEE PLANS / ELEVATIONS	SEE PLANS / ELEVATIONS
HORIZ	SILLS	SEE PLANS / ELEVATIONS	SEE PLANS / ELEVATIONS
HORIZ	JOINT REINF	AT 16" MAX	AT 16" MAX.

PROVIDE THE ABOVE SCHEDULED MINIMUM WALL REINFORCING IN ALL MASONRY UNLESS SPECIFICALLY NOTED OR DETAILED OTHERWISE ON THE DRAWINGS.
 8" CMU: MW1
 12" CMU: MW2

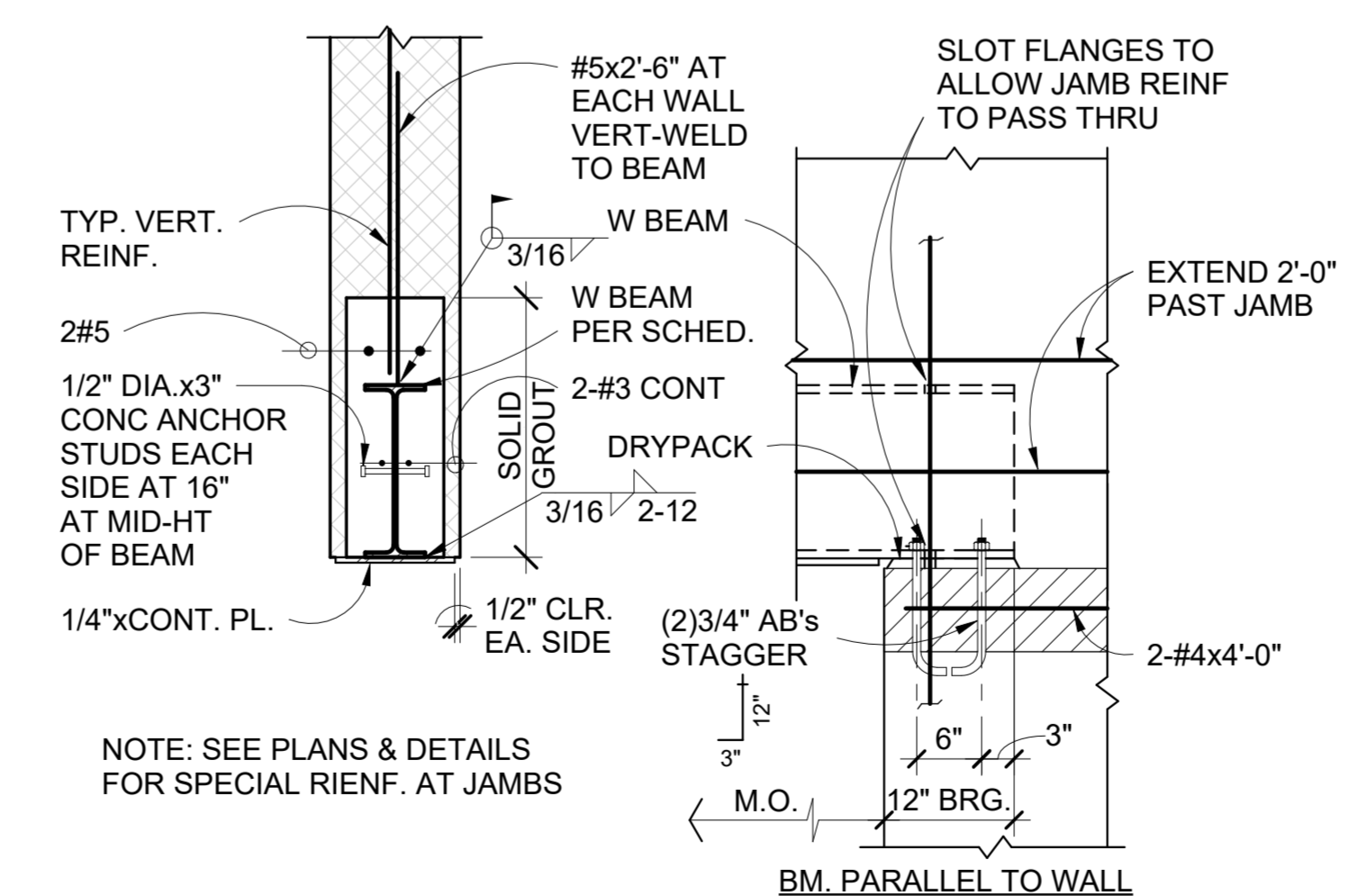
6 MASONRY WALL REINF SCHED
NO SCALE



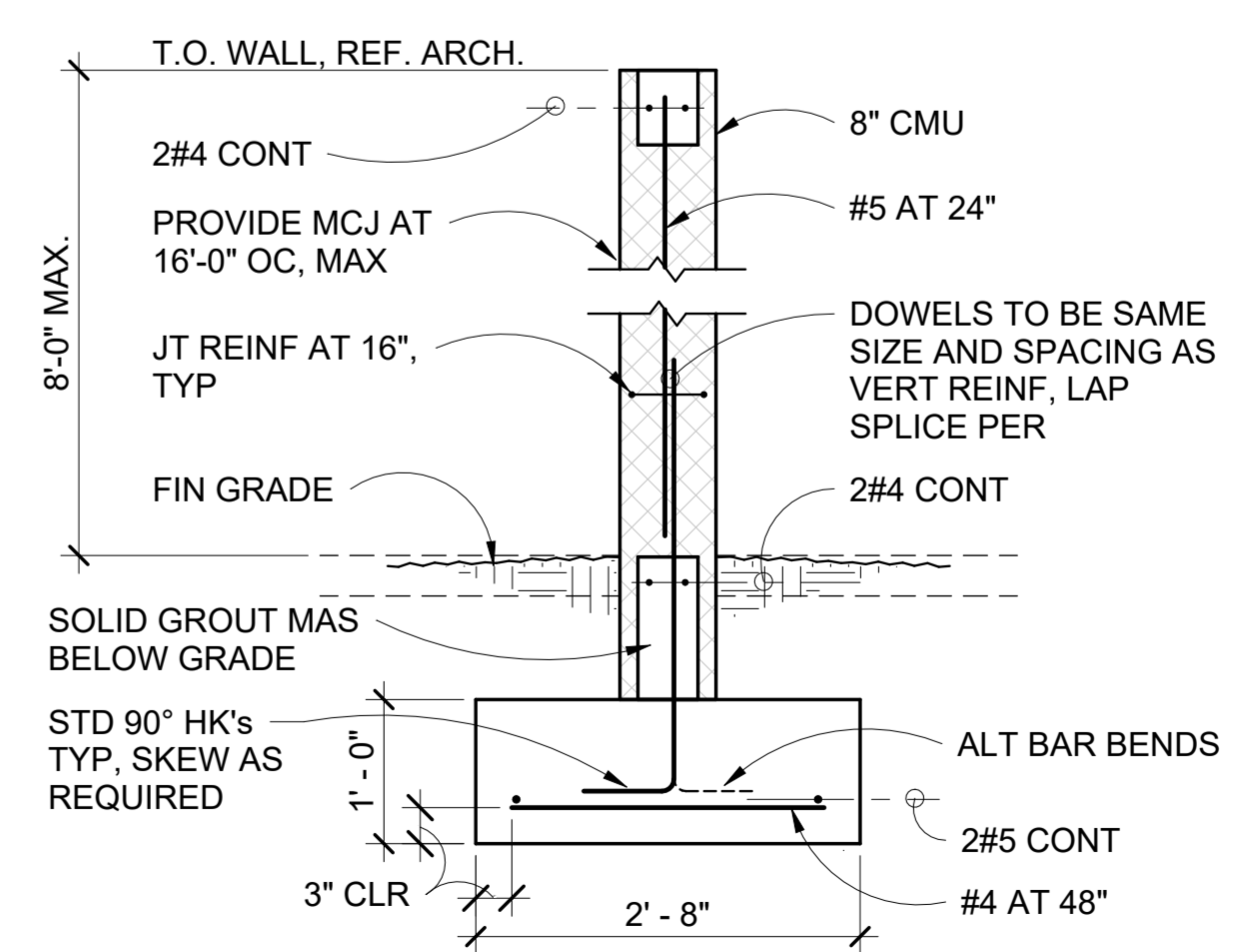
B	MAS. OPNG.	D	TOP BARS	BOT. BARS	STIRRUPS & SPA.
8", 12"	UP TO 4'-0"	16"	-	2-#5	-
	OVER 4'-0" TO 6'-0"	24"	2-#4	2-#5	-
	OVER 6'-0" TO 8'-0"	32"	2-#5	2-#5	#4 AT 16"
	OVER 8'-0" TO 10'-0"	40"	2-#5	2-#5	#4 AT 8"
	OVER 10'-0"	48"	2-#6	2-#6	#4 AT 8"



8 STEEL LINTEL IN CMU WALL
NO SCALE



9 TYP CMU SCREEN WALL
3/4" = 1'-0"

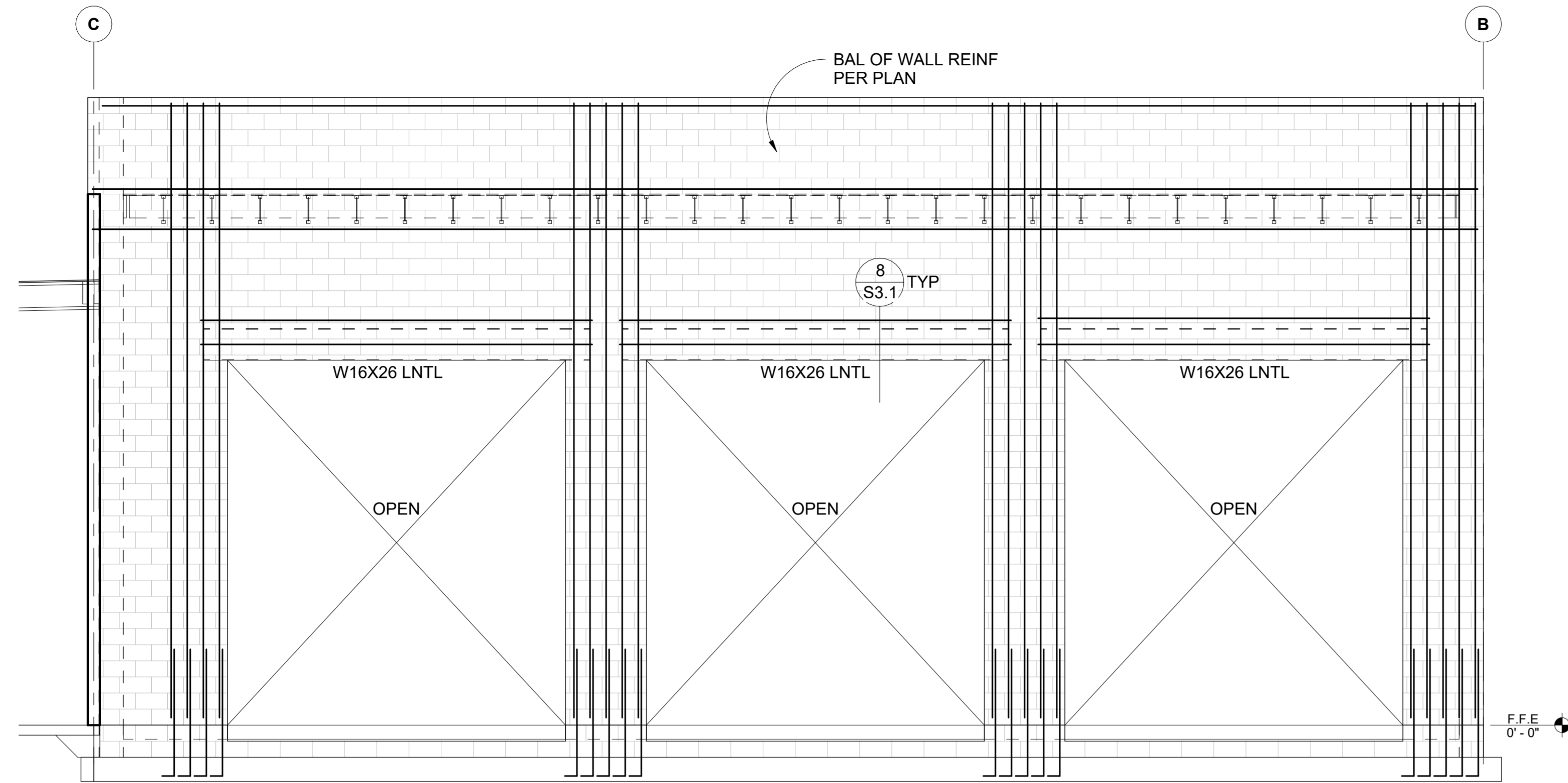


7 TYP LINTEL REINF. IN CMU WALLS
NO SCALE

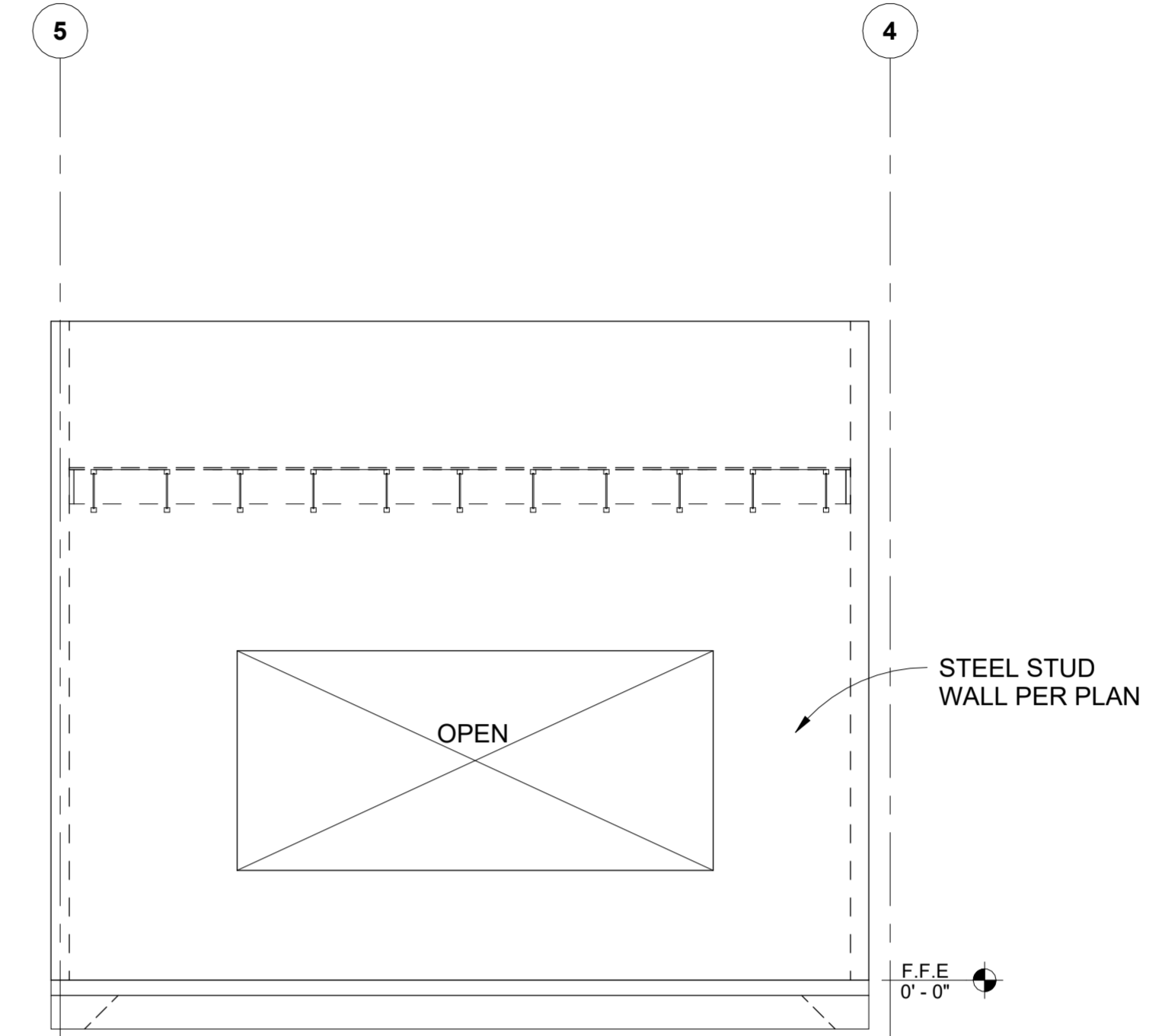
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1 STRUCTURAL CMU WALL ELEVATION
1/4" = 1'-0"



2 STRUCTURAL STEEL STUD WALL ELEVATION
1/4" = 1'-0"

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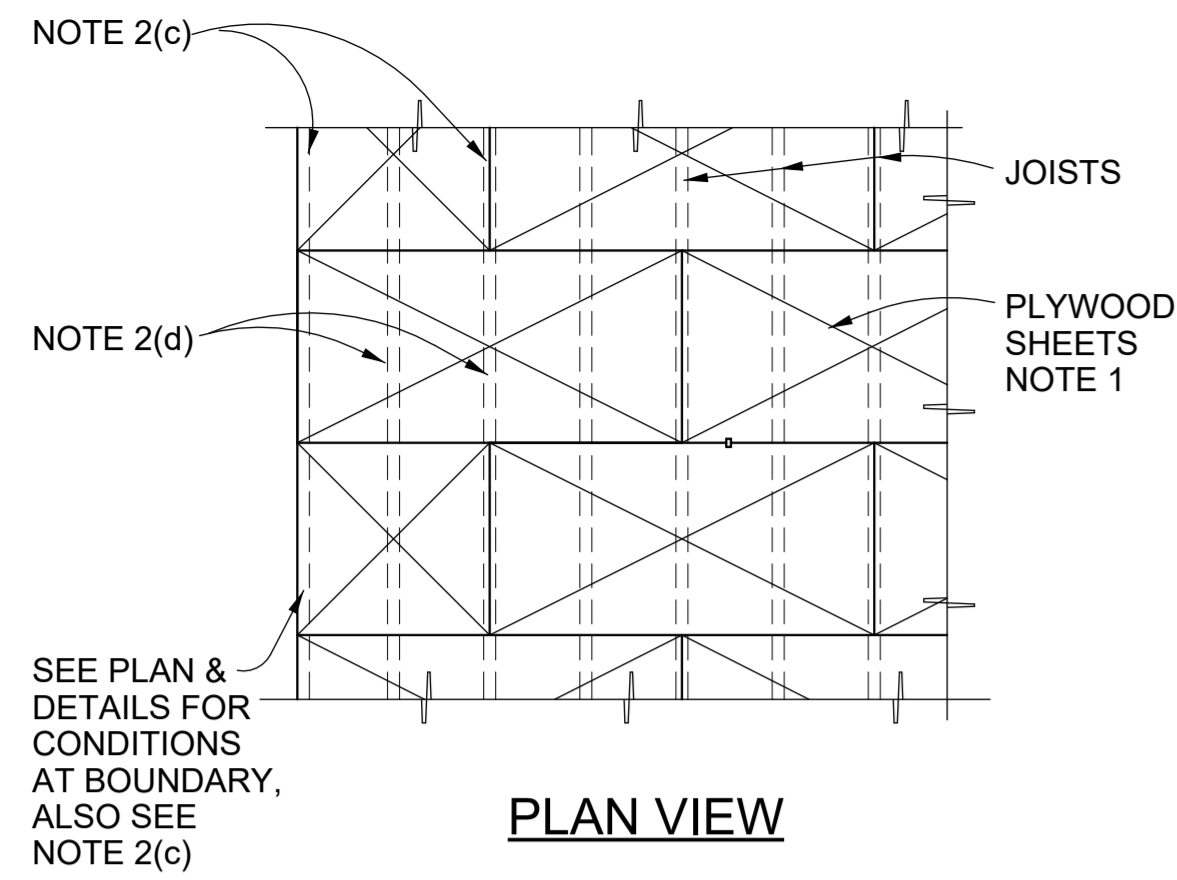
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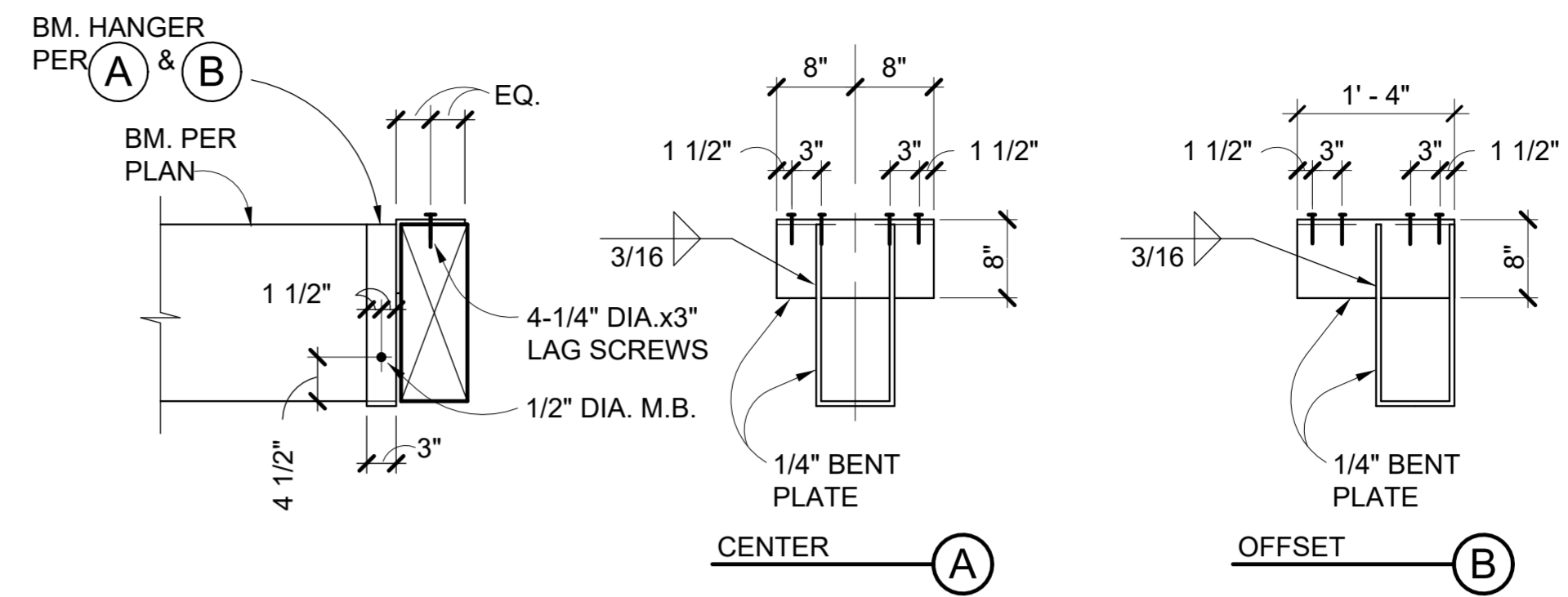
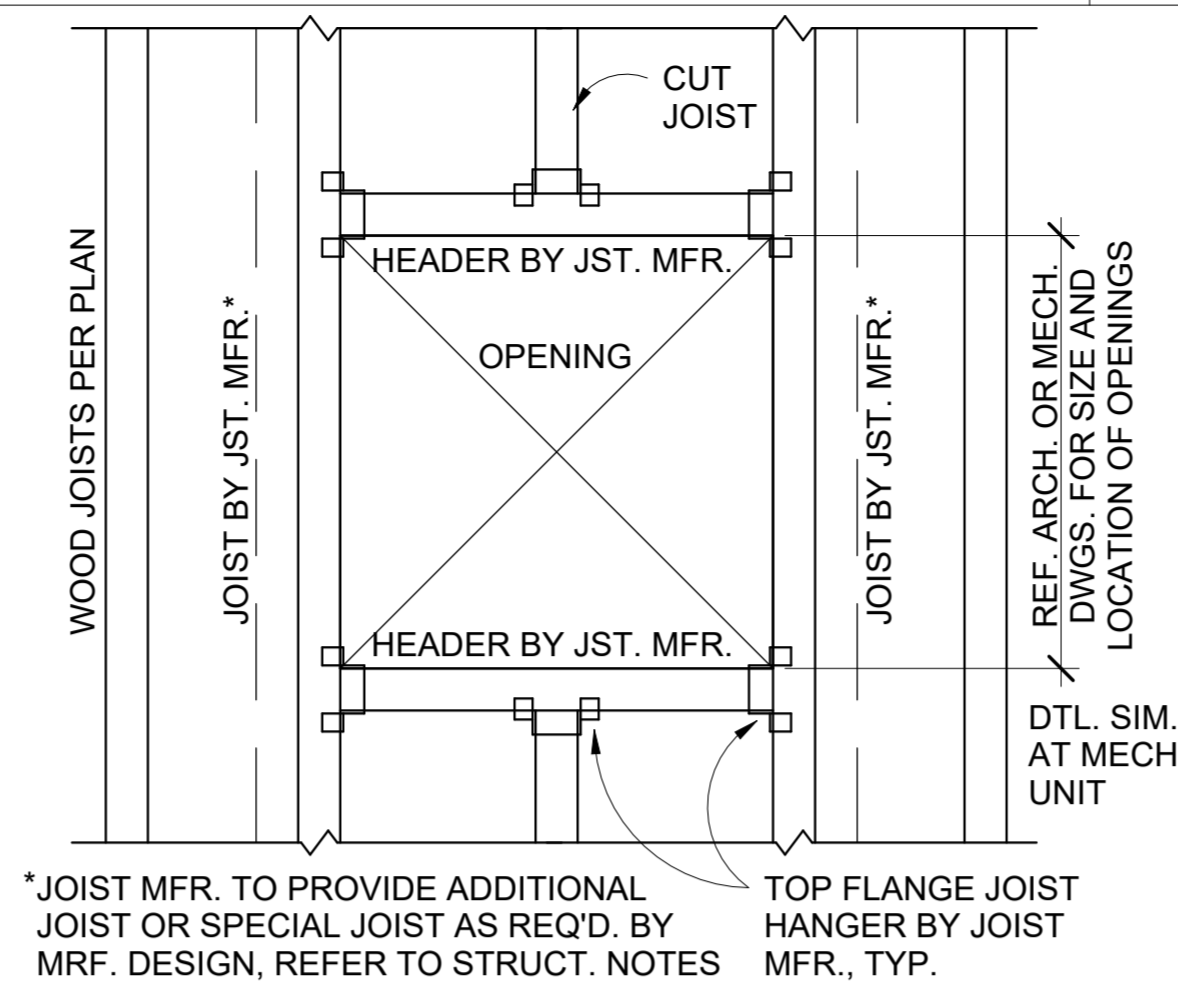
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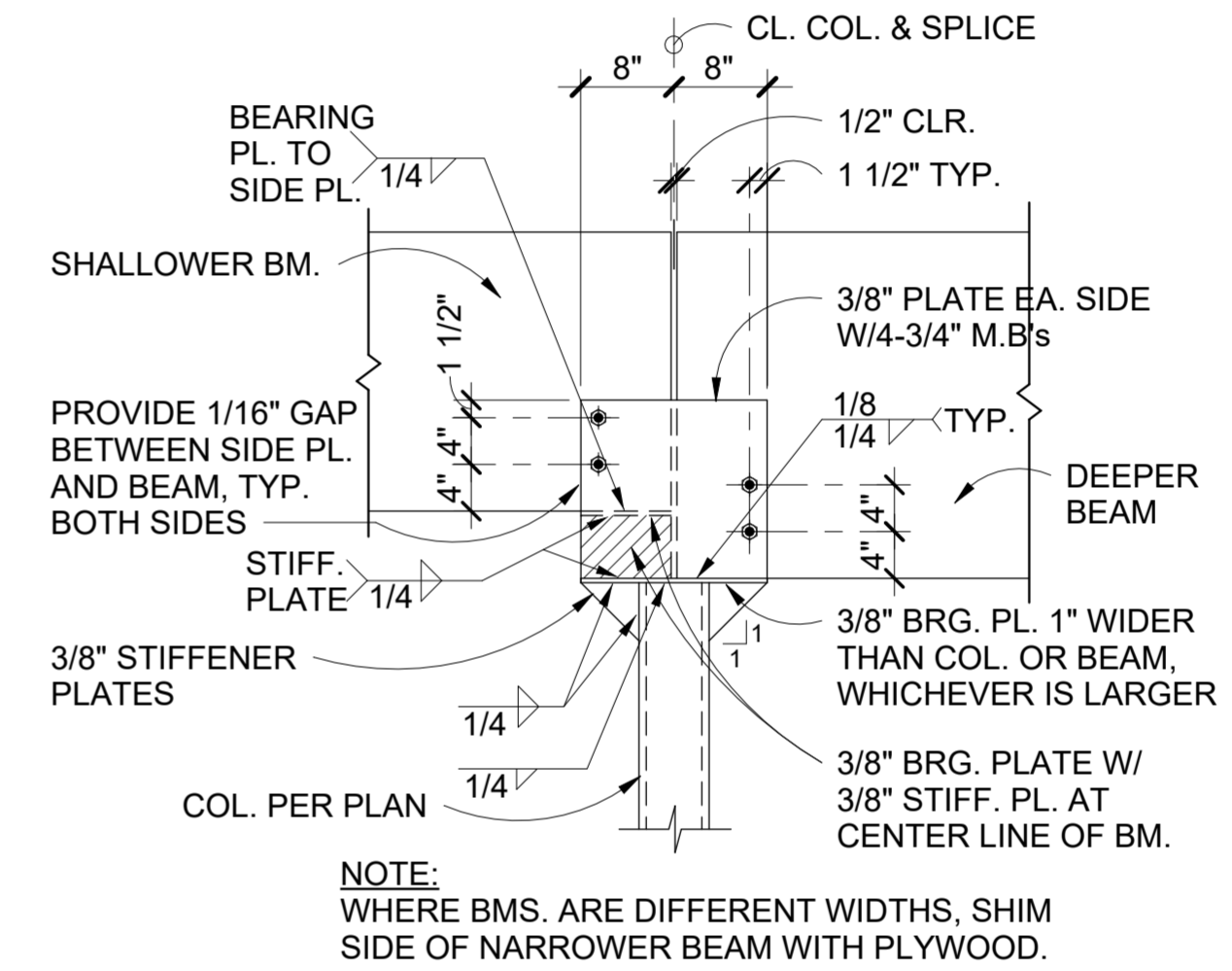
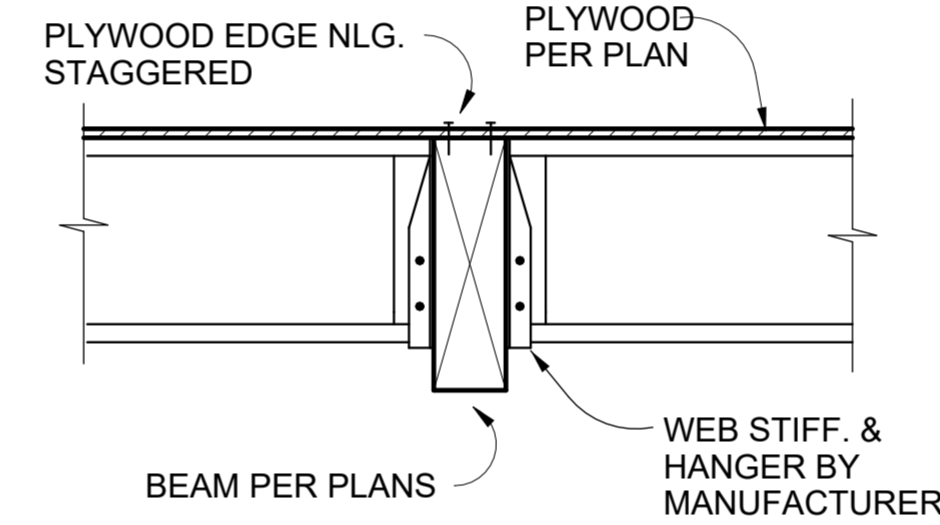
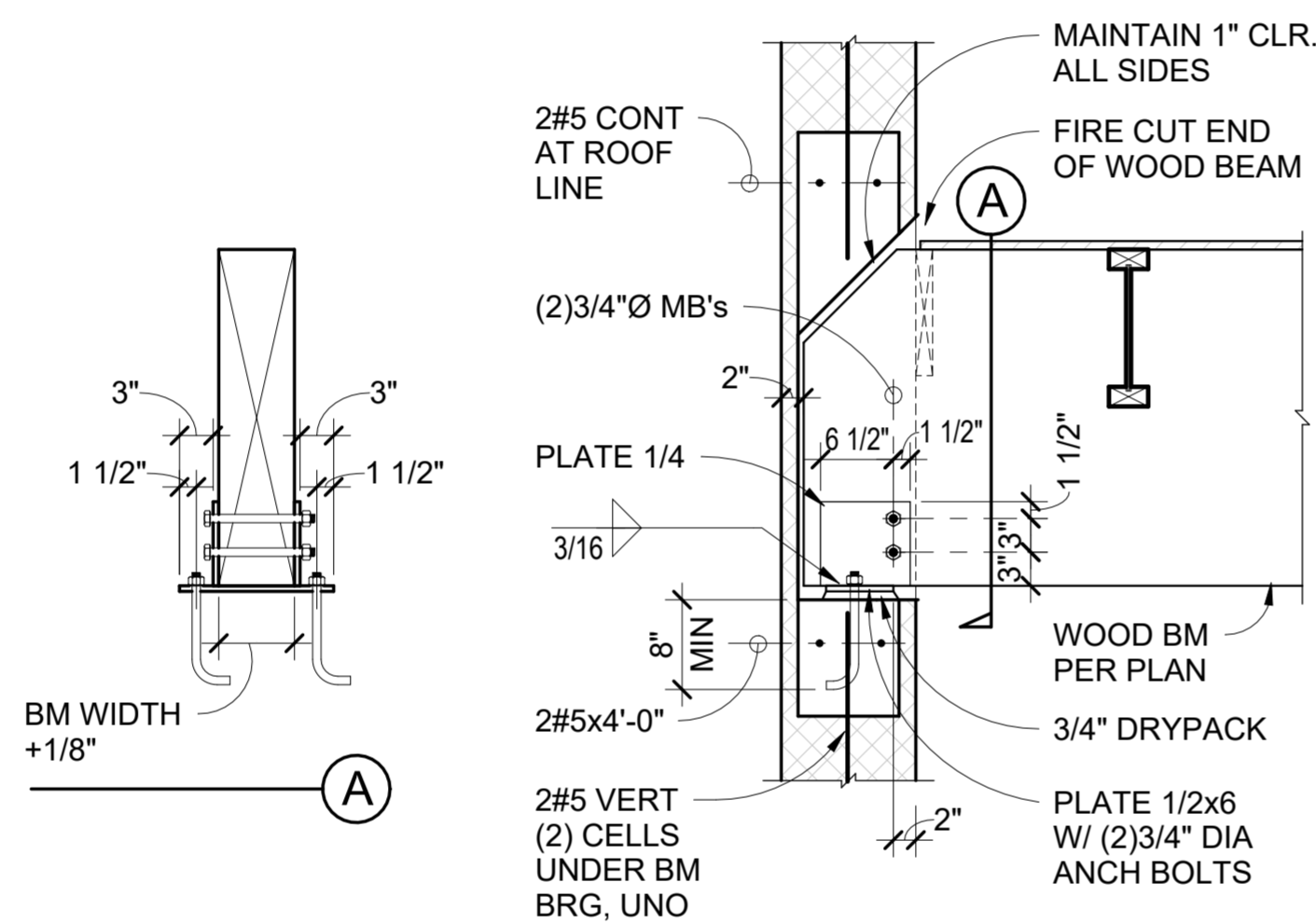
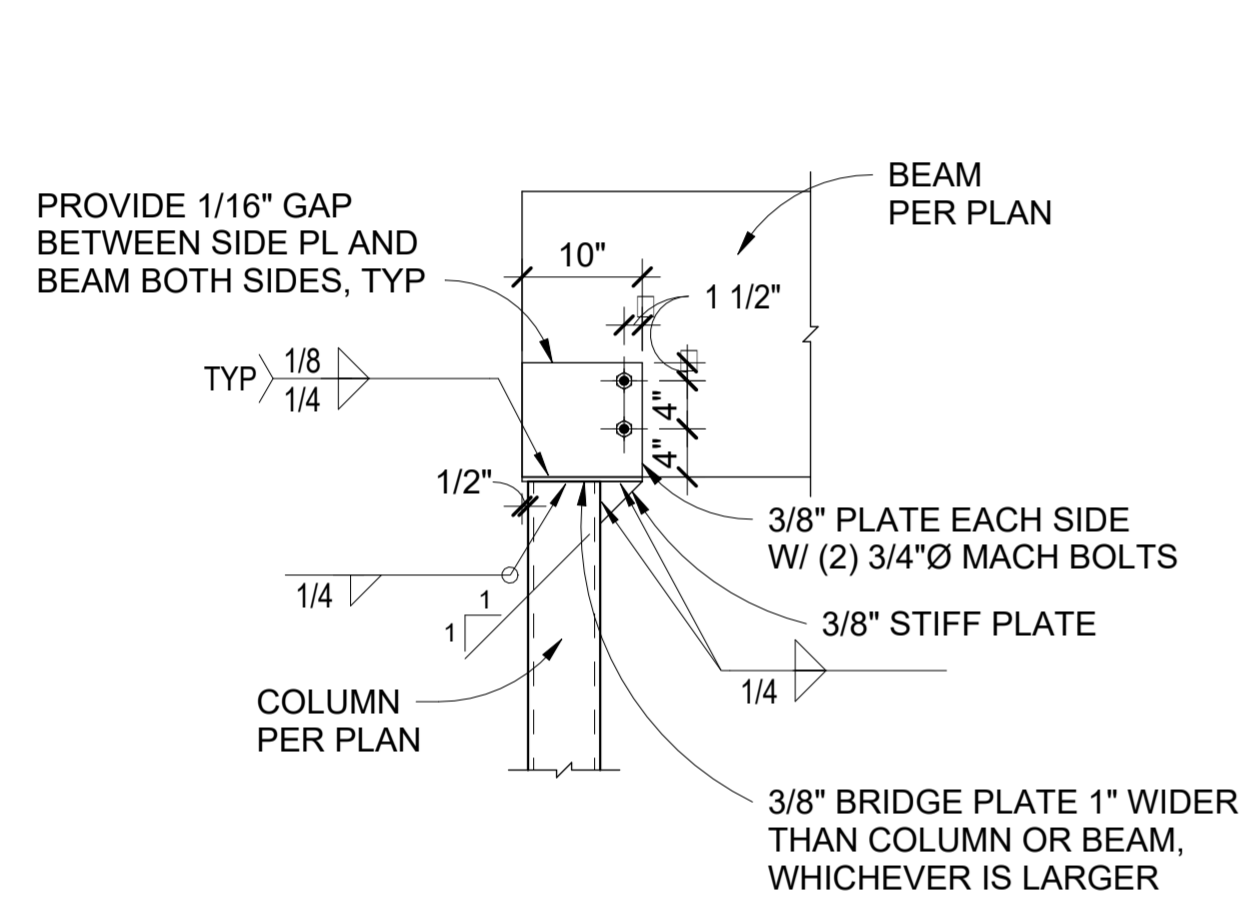
- NOTES:**
- PLYWOOD
 - 5/8" 5-PLY APA RATED SHEATHING: EXPOSURE 1 CLASSIFICATION PANEL GRADE STRUCTURAL 1, C-C EXTERIOR EXPOSURE SPAN RATING: 24'
 - STAGGER SHEETS AS SHOWN.
 - RUN FACE GRAIN PERPENDICULAR TO SUPPORTS.
 - MINIMUM SHEET SIZE SHALL BE 2'-0"x4'-0".
 - ATTACHMENT:
 - SCREWS SHALL BE SELF DRILLING #10-24x1 7/16 PWH #3 WINGS (PHILLIPS WAFFER HEAD SCREWS).
 - MINIMUM EDGE DISTANCE SHALL BE 3/8", AND SCREWS SHALL NOT BE OVERDRIVEN THRU OUTER PLY. STAGGER AT ADJACENT PLYWOOD SHEET.
 - SHEET EDGES: SCREW AT 6" O.C.
 - BOUNDARIES: SCREW AT 6" O.C.
 - EDGES OF OPENINGS: SCREW AT 4" O.C.
 - INTERMEDIATE: SCREW AT 12" O.C.



1 TYP. HORIZONTAL PLYWOOD ROOF SHEATHING
NO SCALE

2 TYP WOOD JOIST FRAMING AT OPENING
NO SCALE

3 TYP. BEAM TO BEAM CONN.
NO SCALE

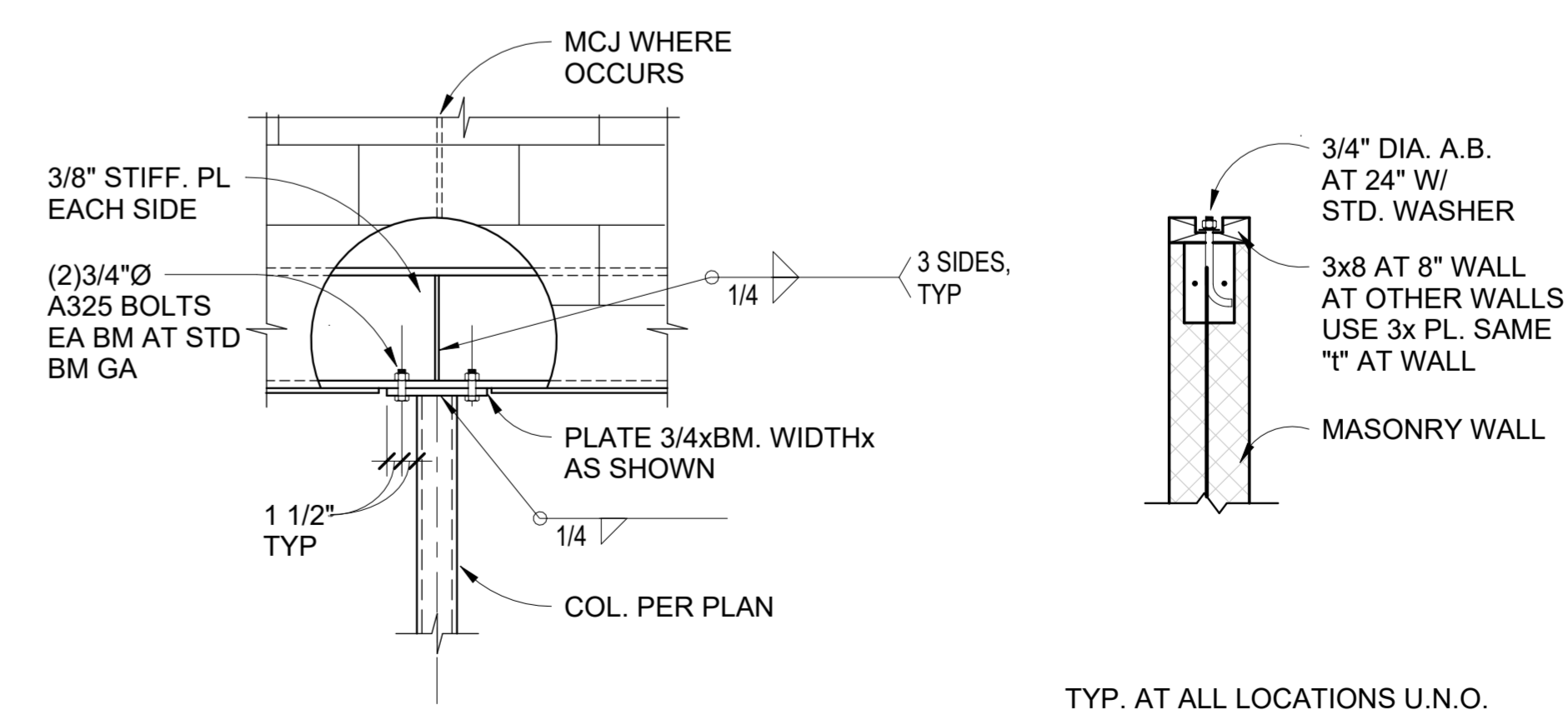
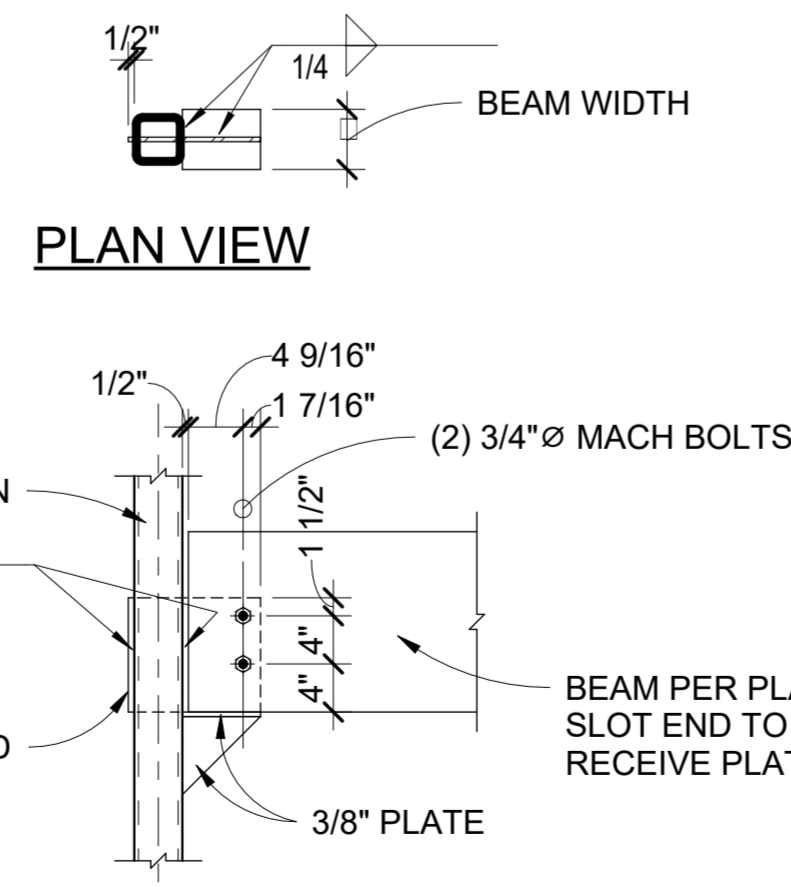
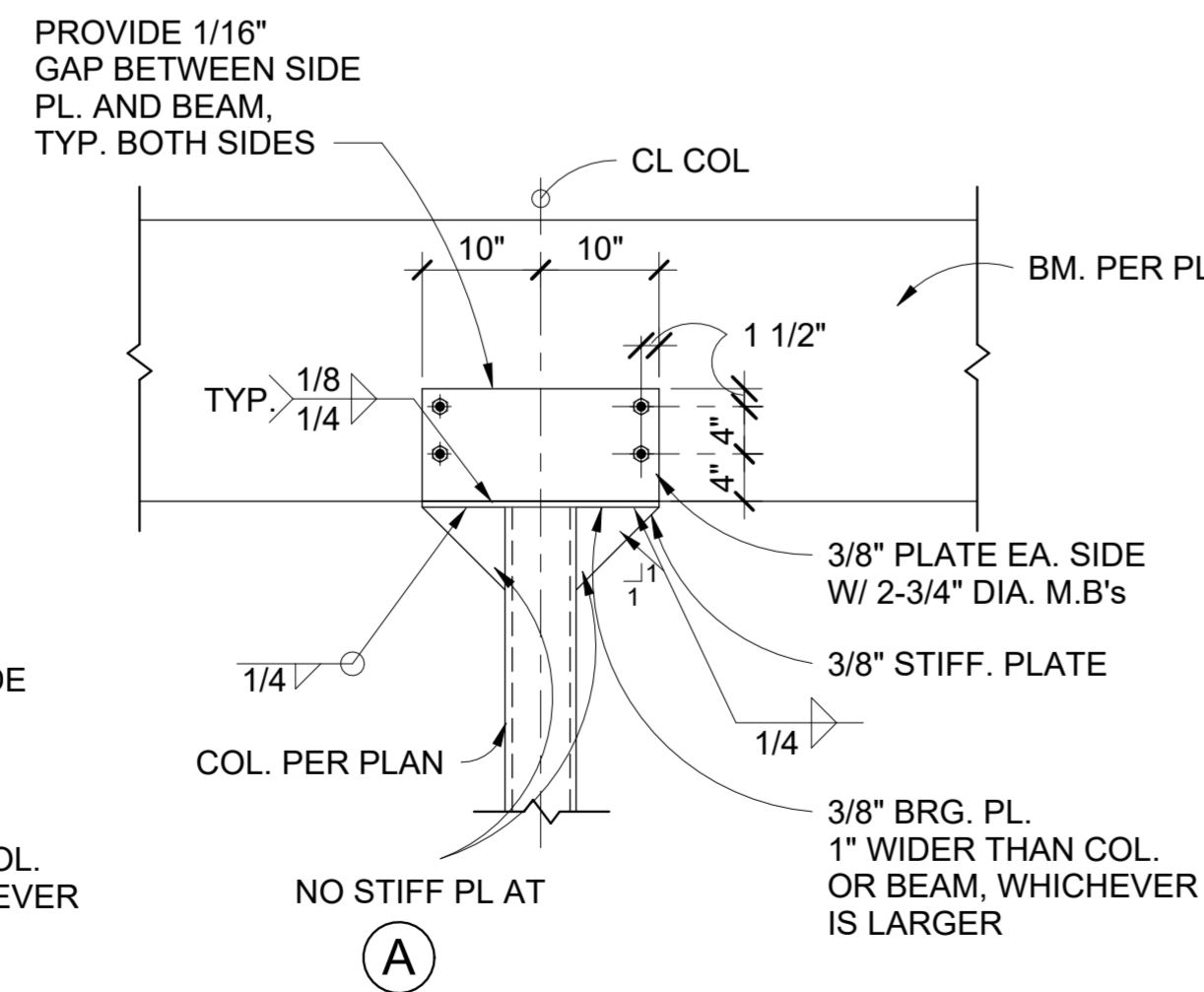
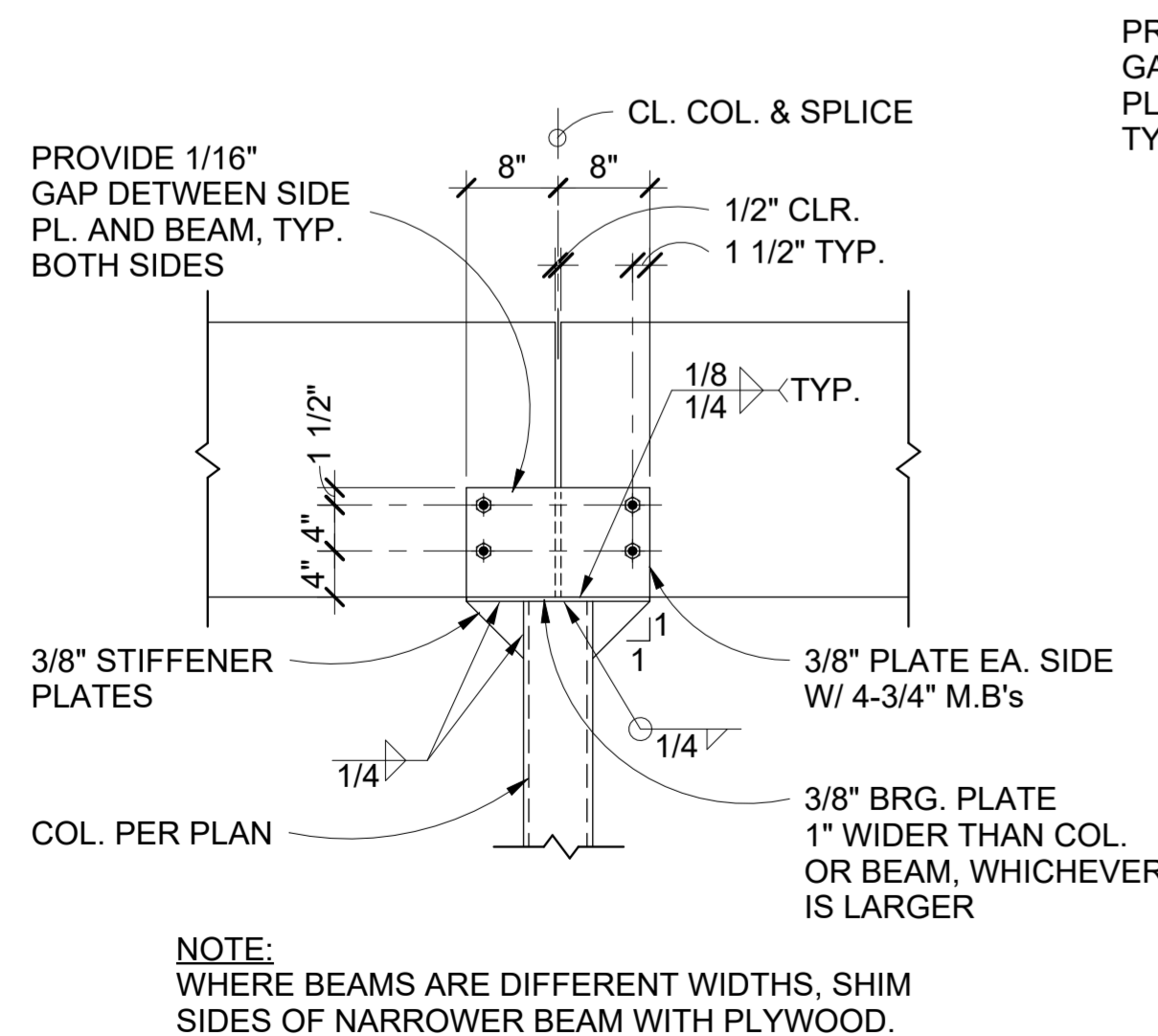


4 TYP END WD BM TO STEEL COL SADDLE
3/4" = 1'-0"

5 WOOD BM BEARING AT MAS WALL
3/4" = 1'-0"

6 TYP WOOD JOIST AT BEAM CONN
NO SCALE

7 TYP WOOD BEAM TO COLUMN
3/4" = 1'-0"



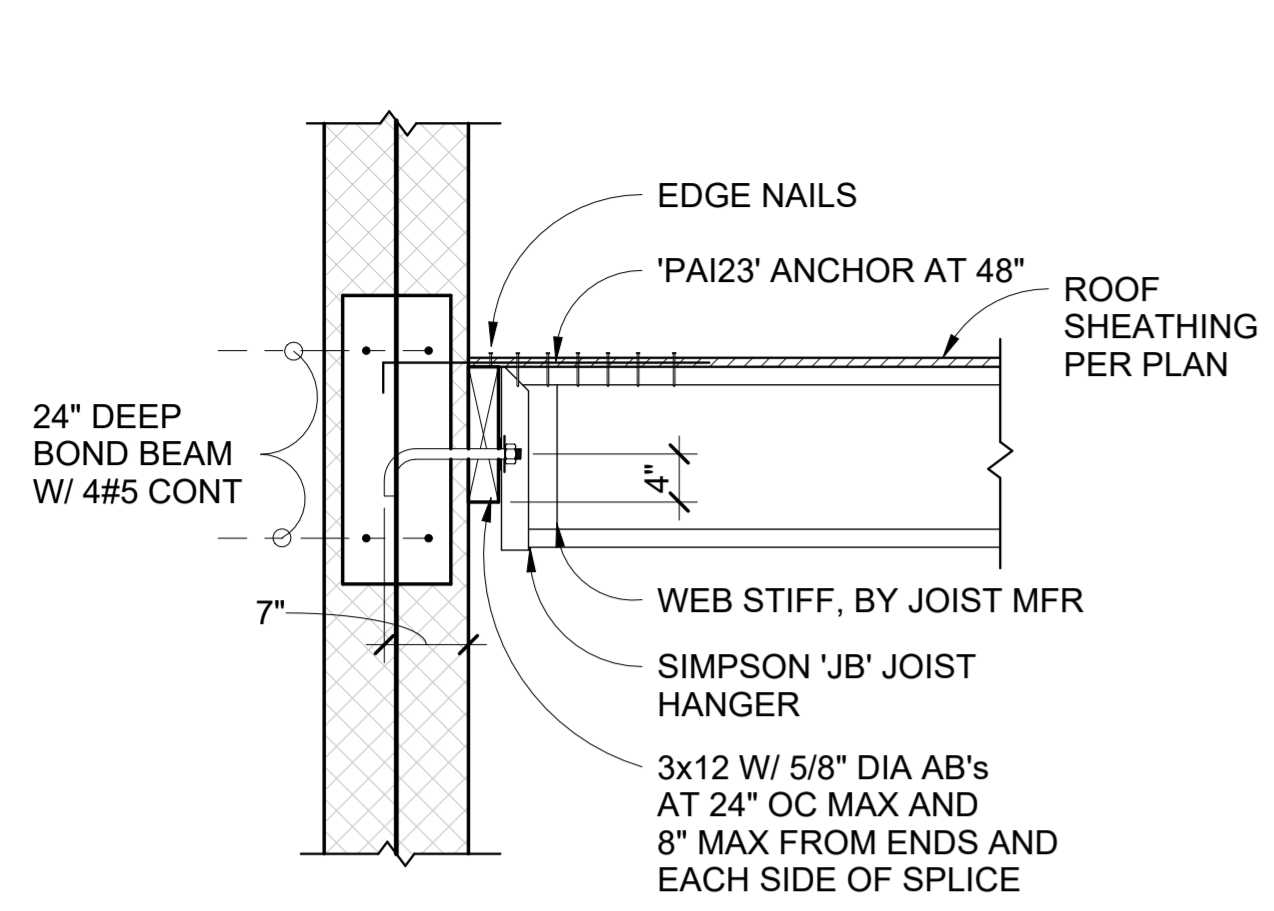
8 TYP WOOD BEAM TO COLUMN
3/4" = 1'-0"

9 TYP CANTILEVER WOOD BM TO COL
3/4" = 1'-0"

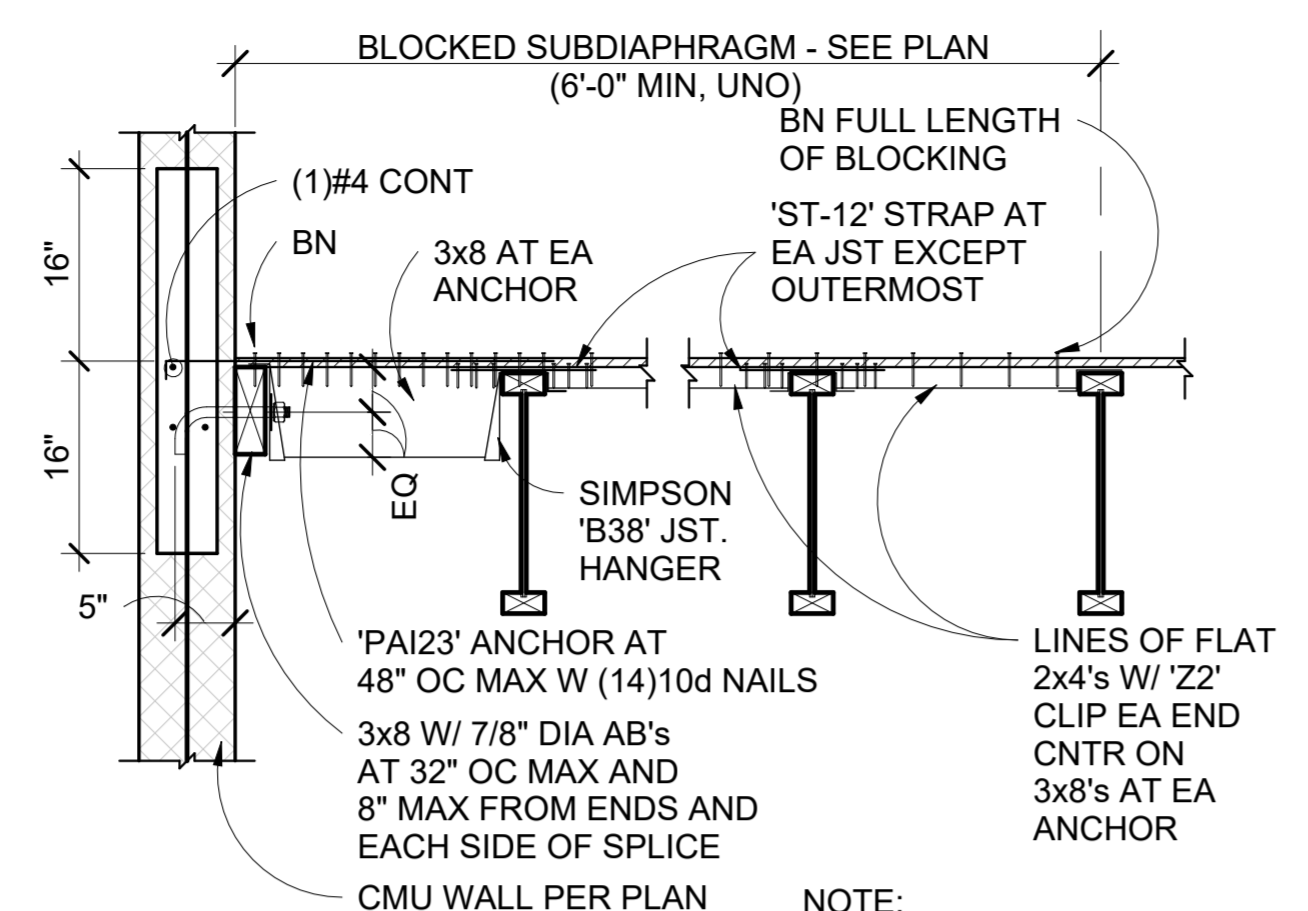
10 TYP WD BEAM TO CONT STEEL COL
3/4" = 1'-0"

11 TYP BEAM OVER COLUMN
NO SCALE

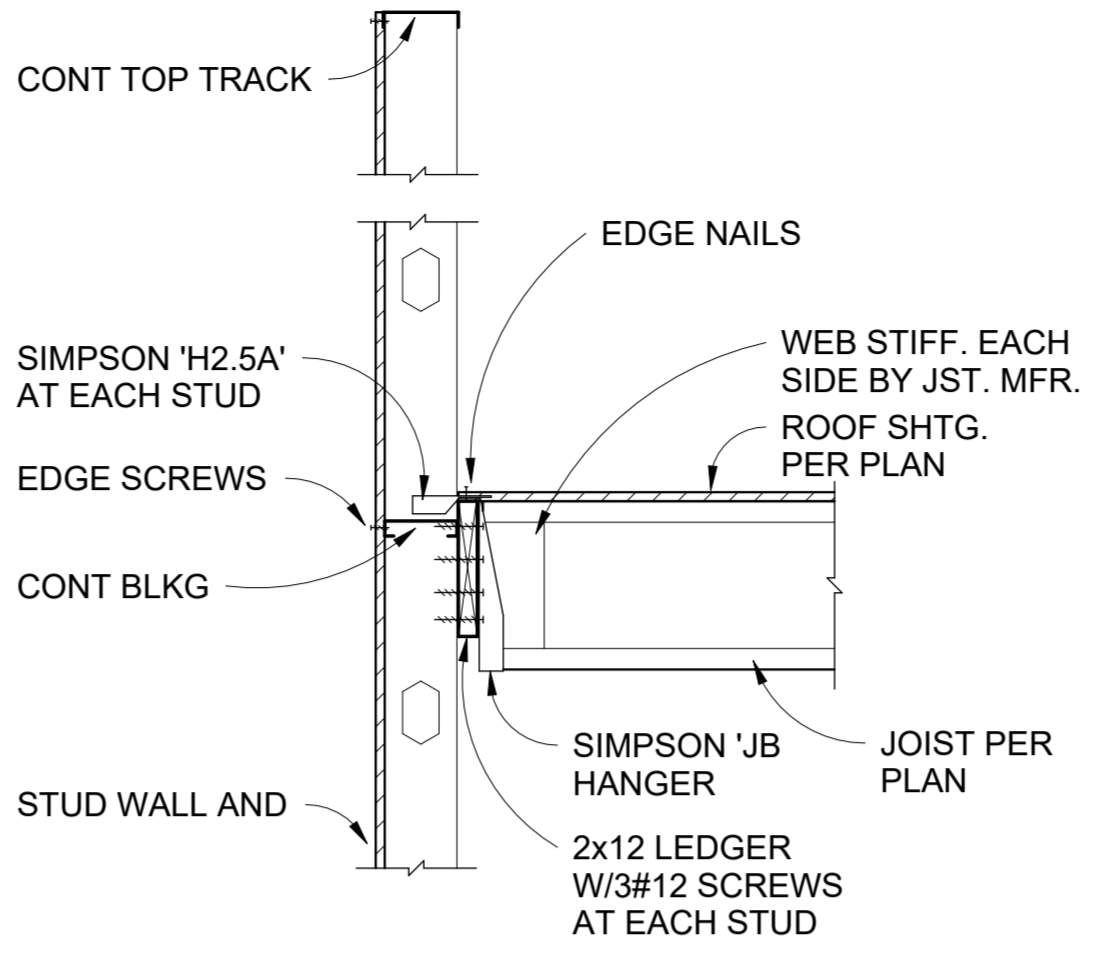
12 TYP. WOOD PL. DETAIL
NO SCALE



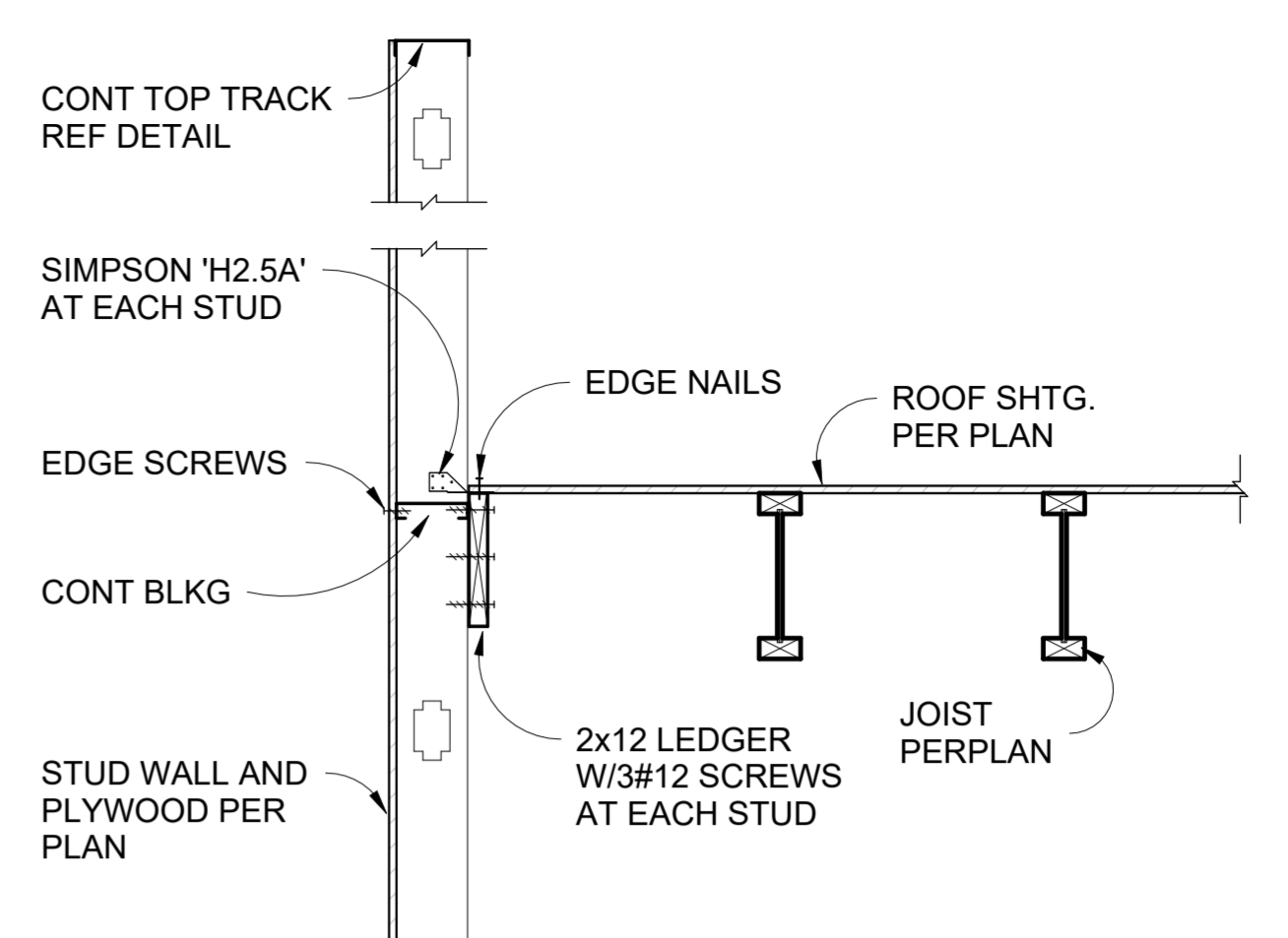
1 TYP WOOD I-JOIST PERP TO CMU WALL
NO SCALE



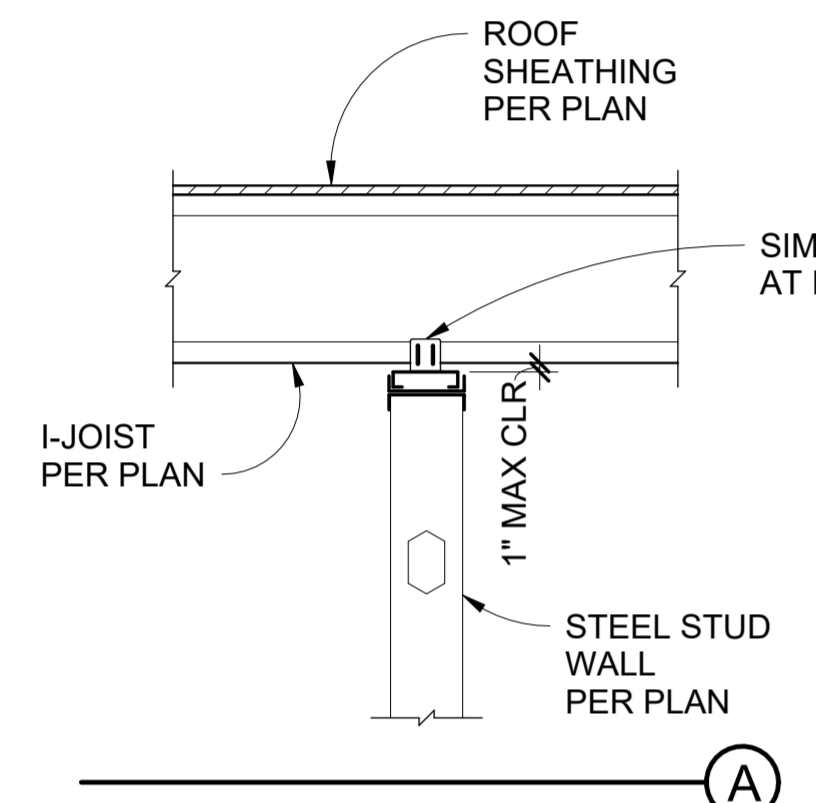
2 TYP WD JOIST PARALLEL TO MAS WALL
3/4" = 1'-0"



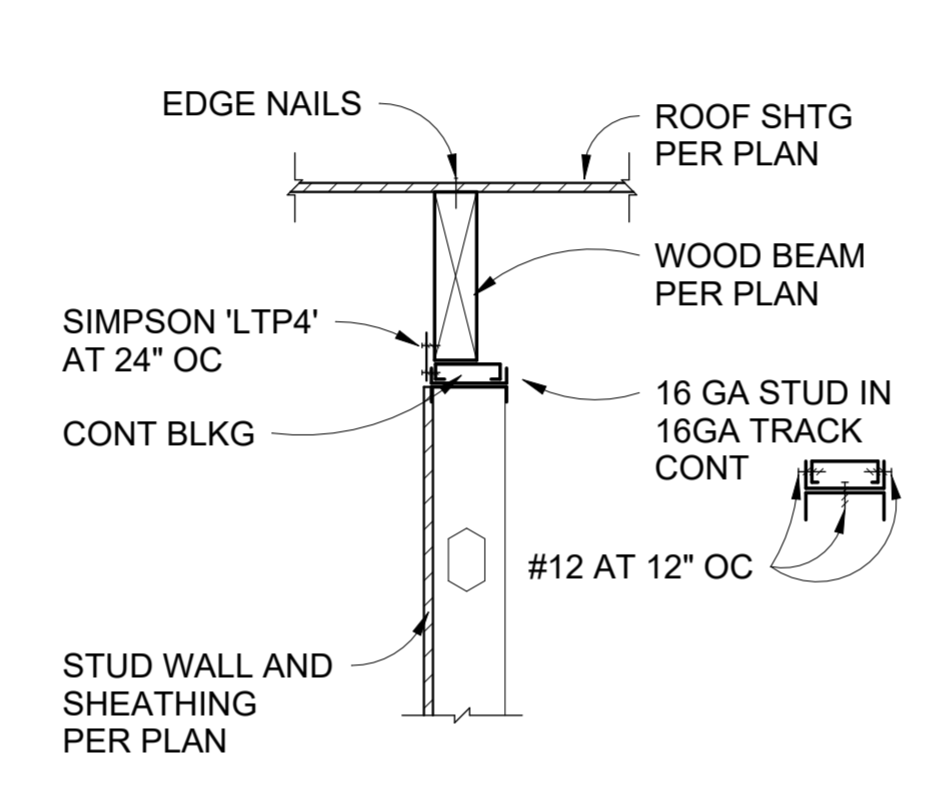
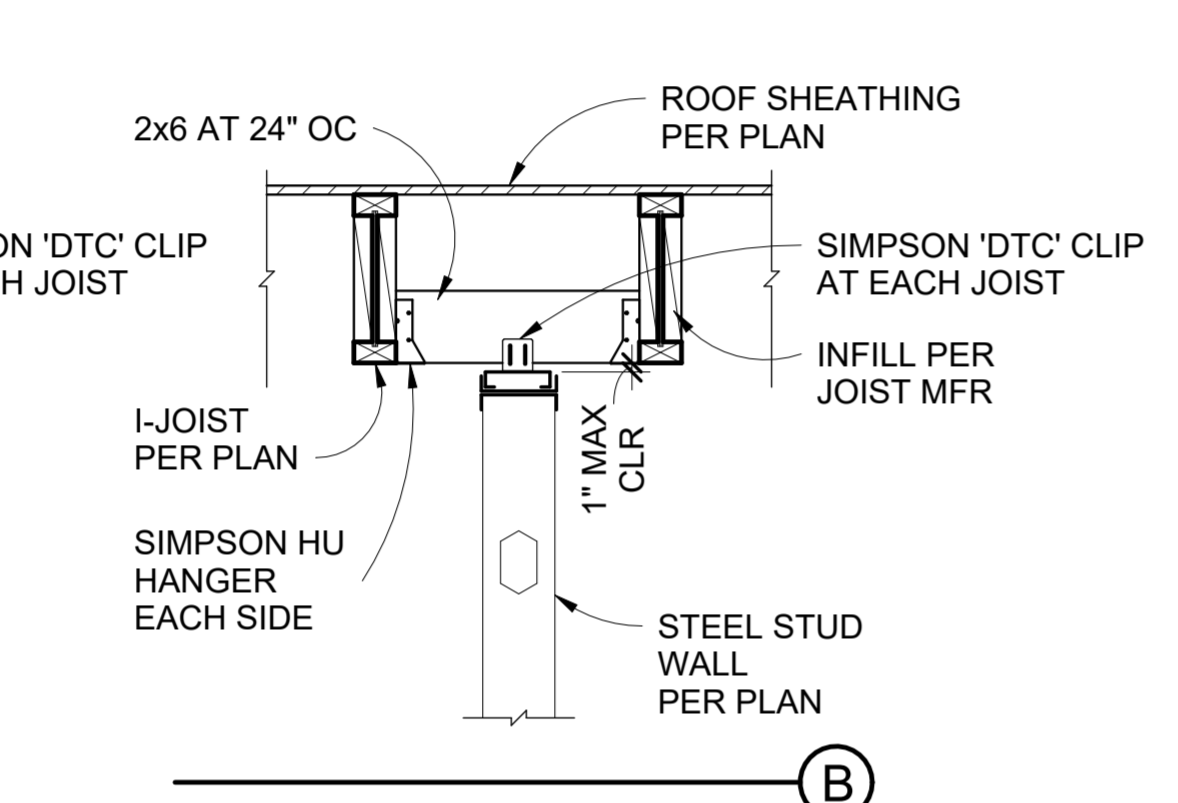
3 WOOD LEDGER AT STL STUD WALL
3/4" = 1'-0"



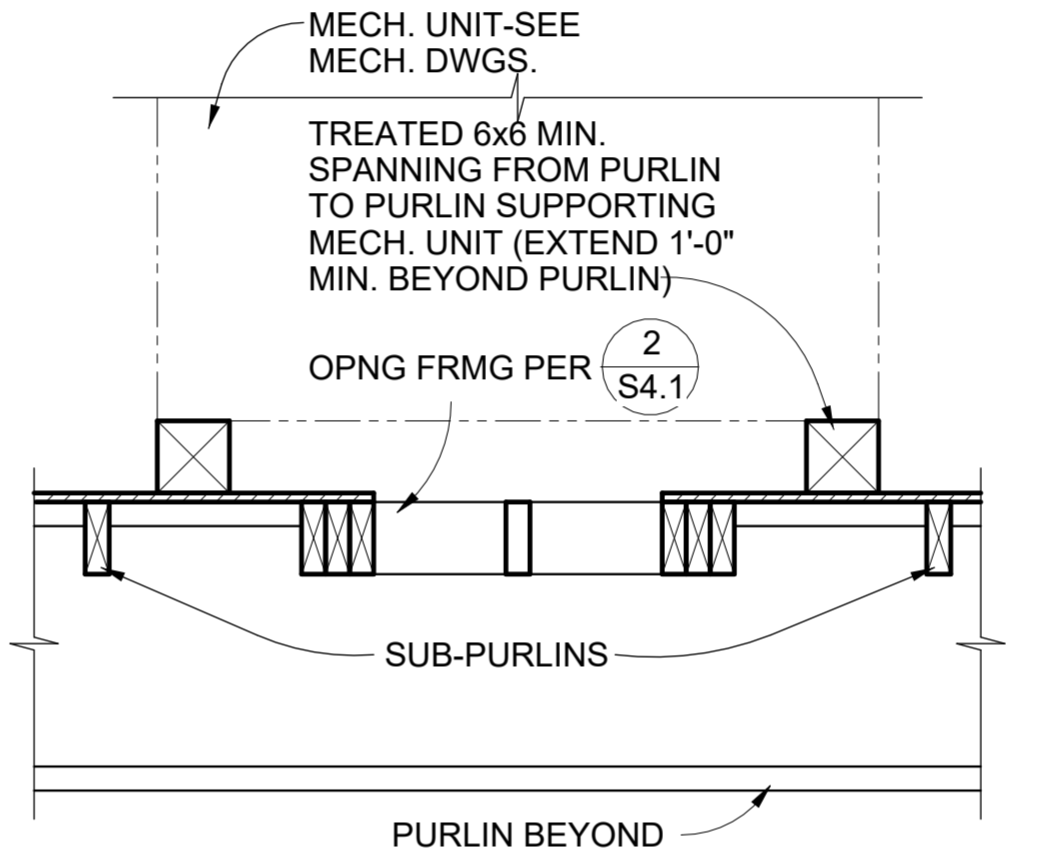
4 WOOD LEDGER AT STEEL STUD WALL
3/4" = 1'-0"



5 I-JOIST AT NON-BEARING STUD WALL
3/4" = 1'-0"



6 WOOD BEAM AT TOP OF WALL
3/4" = 1'-0"



7 MECH UNIT PLATFORM AT WOOD ROOF
3/4" = 1'-0"

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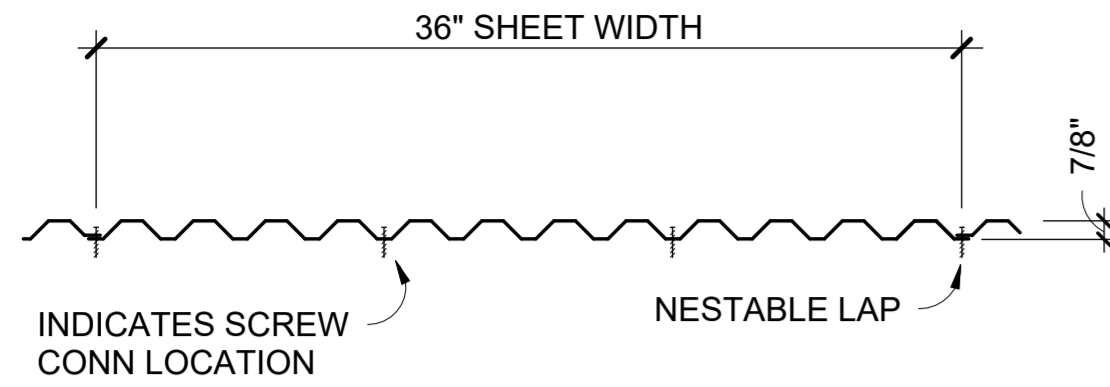
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Structural Details
S4.2



MIN DECK CONN ALL SUPPORTS:
 (4) 1/2" Ø PUDDLE WELDS PER SHEET.
 1/2" Ø AT 12" OC AT PARALLEL SUPPORTS AND BOUNDRIES.
 NESTED 1/2" Ø PUDDLE WELDS AT 12" OC

DECK PROFILE

STL. DECK MIN. SECTION PROPERTIES & DATA	
DECK DEPTH	7/8"
GAUGE	20
SPAN RATING	24/32
FINISH	WEATHERED, REF ARCH DWGS

NOTES:

1. DECK LAYUP SHALL PROVIDE ALL DECK SHEETS OF SUFFICIENT LENGTH TO EXTEND CONTINUOUSLY OVER AT LEAST 3 SPANS.
2. ENDS OF ADJOINING DECK SHEETS SHALL BE CENTERED OVER SUPPORTS & ABUTTED OR ACCEPTABLY LAPPED 2". ABUTTED SHEETS REQUIRE 2 TYPICAL SCREWS AT EACH SCREW LOCATION.
3. DO NOT SUSPEND CEILINGS, LIGHT FIXTURES AND CONDUITS, DUCTS, PIPING, OR OTHER UTILITIES AND UTILITY COMPONENTS FROM DECK.
4. SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

1 TYP CORRUGATED STEEL ROOF DECK AT CANOPY
 NO SCALE

Breckenridge

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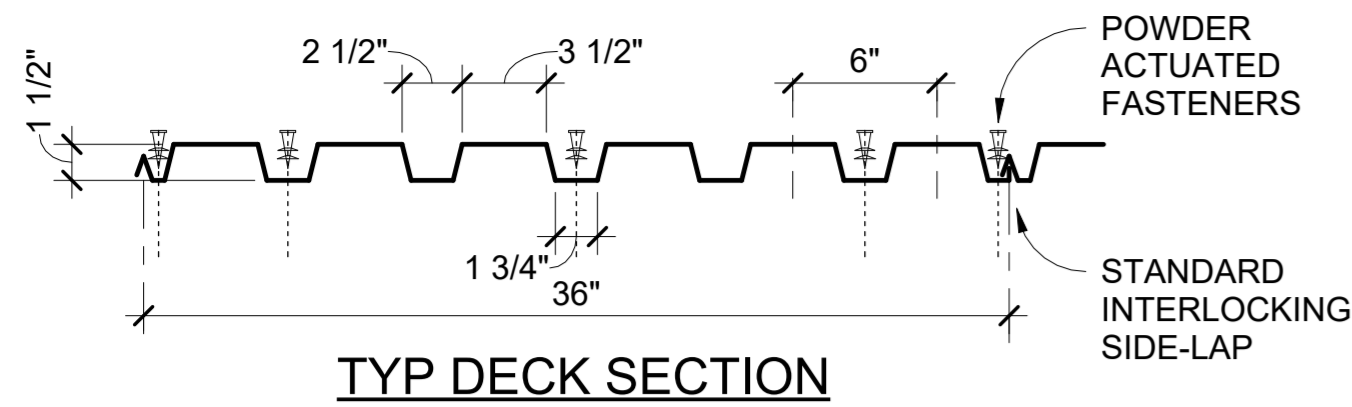
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Structural Details

S4.3



STL. DECK MIN. EFFECTIVE SECTION PROPERTIES & DATA	
DECK DEPTH	1 1/2"
GAUGE	20
MOMENT OF INERTIA (EFF)	1 (+) (IN ⁴ / FT)
	0.218
	1 (-) (IN ⁴ / FT)
	0.231
SECTION MODULUS (EFF)	S (+) (IN ³ / FT)
	0.230
	S (-) (IN ³ / FT)
	0.237
FINISH	PRIMER/PAINTED

NOTES:

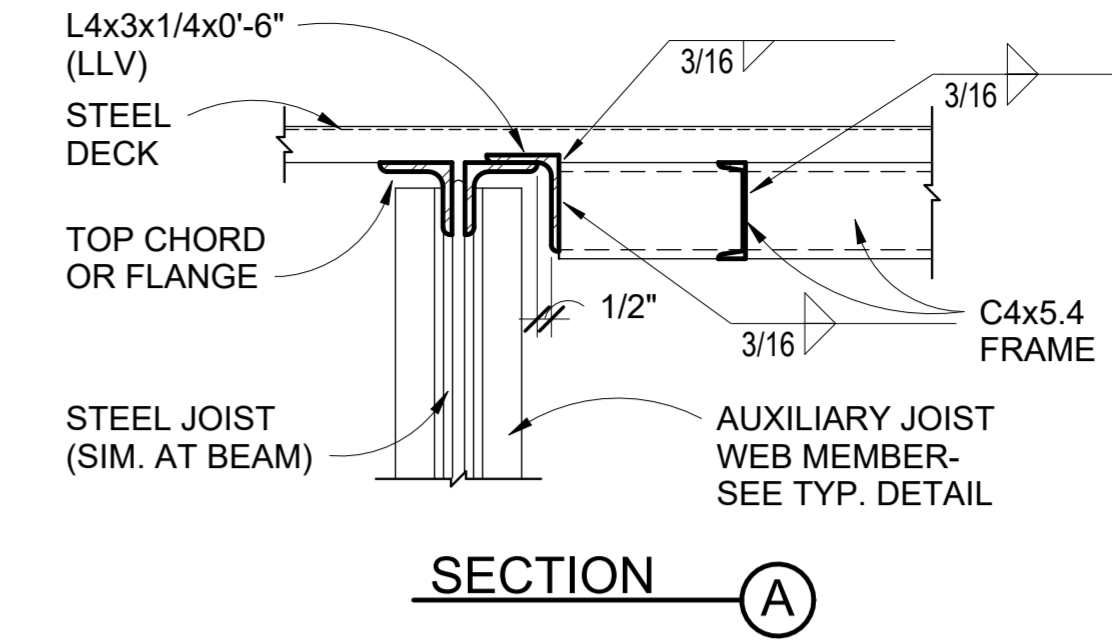
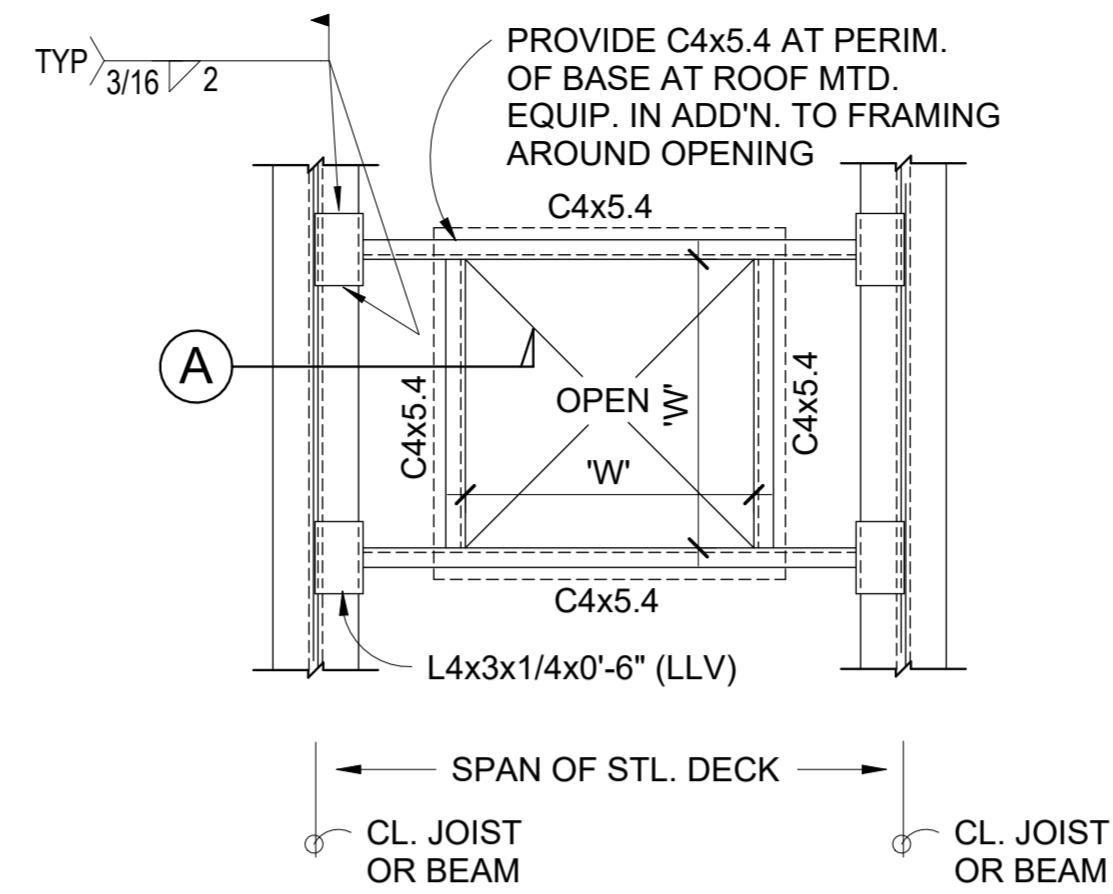
1. DECK LAYUP SHALL PROVIDE ALL DECK SHEETS OF SUFFICIENT LENGTH TO EXTEND CONTINUOUSLY OVER AT LEAST 3 SPANS. ENDS OF ADJOINING DECK SHEETS SHALL BE CENTERED OVER SUPPORTS & ABUTTED OR ACCEPTABLY LAPPED 2". ABUTTED SHEETS REQUIRE 2 TYPICAL CONNECTIONS AT EACH CONNECTION LOCATION.
2. DECK SHALL BEAR 2" MIN ON SUPPORT AT EACH END OF DECK SPAN.
3. DO NOT SUSPEND CEILINGS, LIGHT FIXTURES AND CONDUITS, DUCTS, PIPING, OR OTHER UTILITIES AND UTILITY COMPONENTS FROM DECK.
4. DECK SHOP DRAWING SUBMITTAL SHALL INCLUDE FASTENER TYPE AND ZONES WHERE USED BASED ON SUBSTRATE THICKNESS. SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

POWDER ACTUATED DECK FASTENER:

SUBSTRATE THICKNESS:	FASTENER:
1/8"-3/8"	HILTI 'X-HSN 24'
1/4"-UNLIMITED	HILTI 'X-ENP-19'

MIN. DECK CONNECTION AT ALL SUPPORTS:

(5) POWDER ACTUATED FASTENERS, EA SUPPORT. POWDER ACTUATED FASTENERS AT 12" OC. AT PARALLEL SUPPORTS AND BOUNDRIES. BUTTON PUNCH SIDE SEAM CONNECTION AT 12" OC.

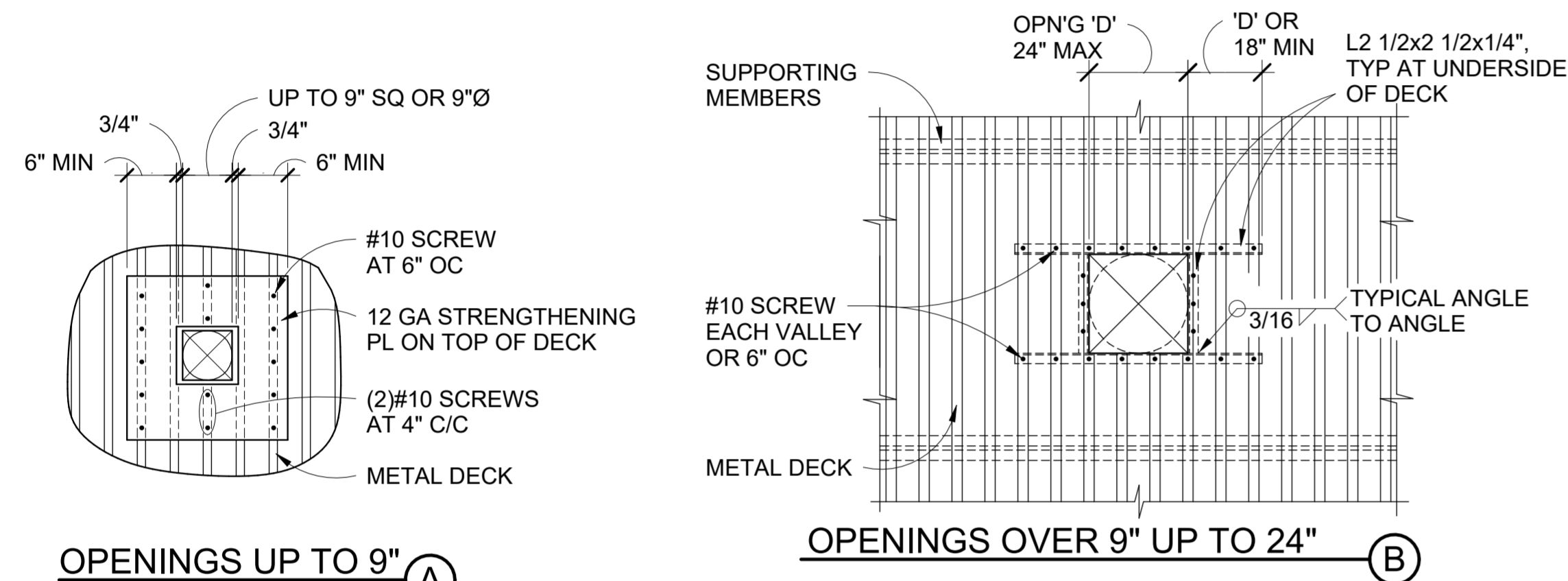


NOTE:

1. AT OPENINGS LESS THAN 24", REFER TO DETAIL.
2. OPENINGS INCLUDE ROOF DRAIN RECEPTORS, PIPES, CONDUITS, SLEEVES, DUCTS, ETC. WHERE CLUSTERS OF THESE ITEMS IN ONE LOCATION EXCEED 24", PROVIDE FRAMED OPENING PER THIS DETAIL.

1 TYP 1 1/2" STEEL ROOF DECK
NO SCALE

2 TYP ROOF DECK FRAMING AT OPENINGS & ROOF MOUNTED MECH EQUIPMENT
NO SCALE



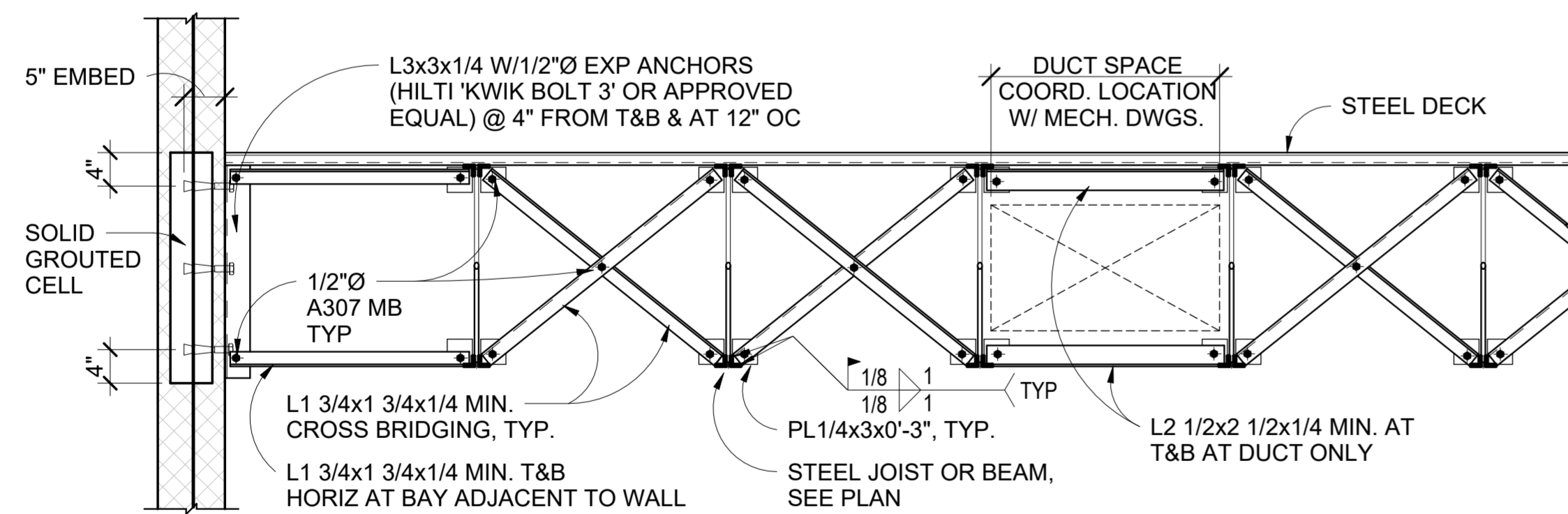
NOTES:

1. AT OPENINGS GREATER THAN 24", PROVIDE FRAMED OPENING PER DETAIL.
2. OPENINGS INCLUDE ROOF DRAIN RECEPTORS, PIPES, CONDUITS, SLEEVES, DUCTS, ETC. WHERE CLUSTERS OF THESE ITEMS IN ONE LOCATION EXCEED 24", PROVIDE FRAMED OPENING PER DETAIL.

3 TYP SMALL OPENINGS IN ROOF DECK
NO SCALE

4 TYP STL JOIST (LH SERIES) BRG ON MAS WALL
NO SCALE

5 TYP STEEL DECK BEARING ON MAS WALL
NO SCALE



NOTES:

1. DO NOT SUSPEND CEILINGS, LIGHT FIXTURES, DUCTS, PIPES OR OTHER UTILITIES FROM JOIST BRIDGING. USE SIM. BRIDGING & CONNECTIONS AT STEEL BEAMS.
2. BRIDGING AND BOLTING PER STEEL JOIST INSTITUTE STANDARD SPECS.
3. JOIST MFR. TO DESIGN BRIDGING. SEE GENERAL NOTES ON SHEET S1.1 AND SPECS.

6 TYP MIN JOIST CROSS BRIDGING
NO SCALE

Tubac Fire Station #1
2227 I-19 Frontage Rd., Tubac, AZ 85646

Design Development

Breckenridge
 architects
 planners
 1735 e. lowell rd. #12
 tucson arizona 85719
 520.882.9944

PRELIMINARY
NOT FOR
CONSTRUCTION

PROJECT NO:
 23.21.00
 DATE:
 June 28, 2024

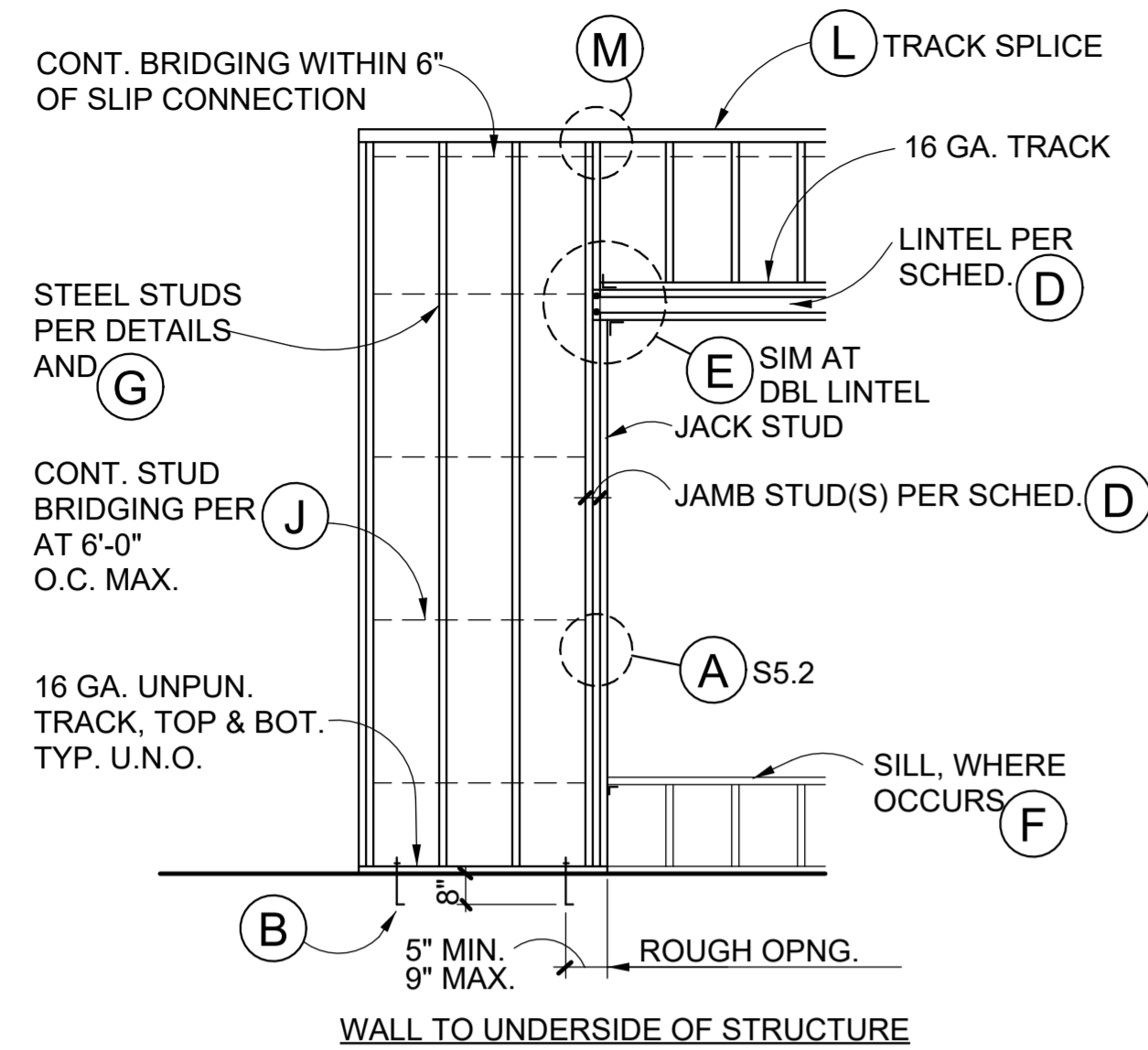
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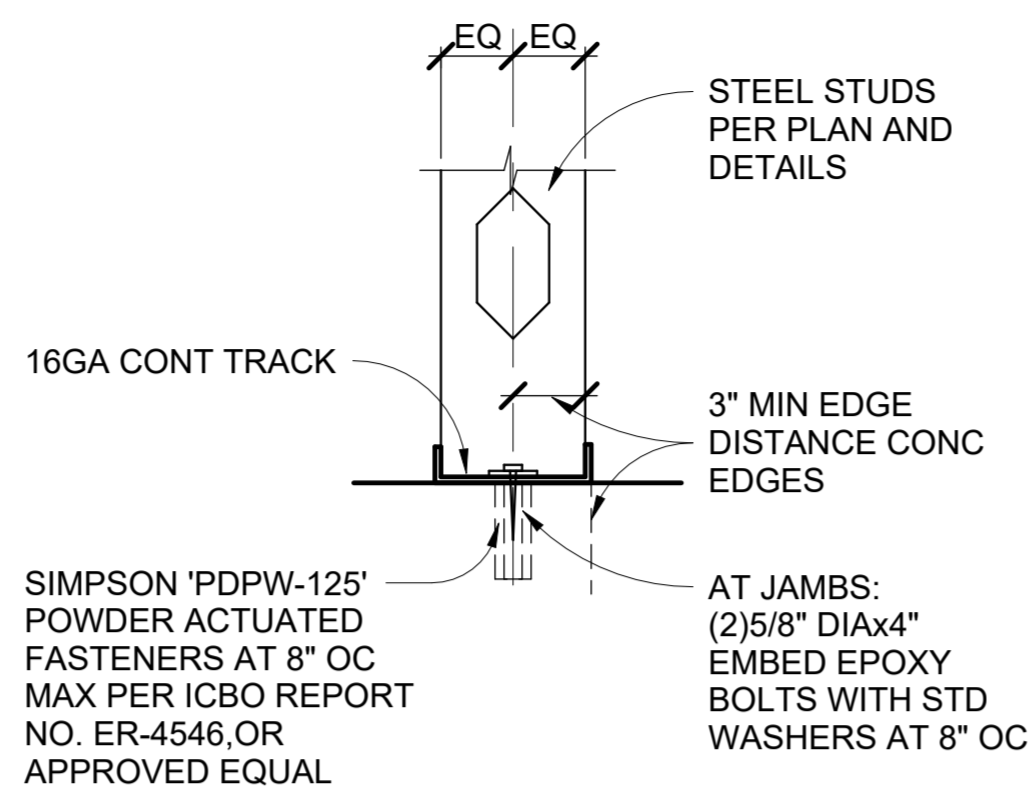
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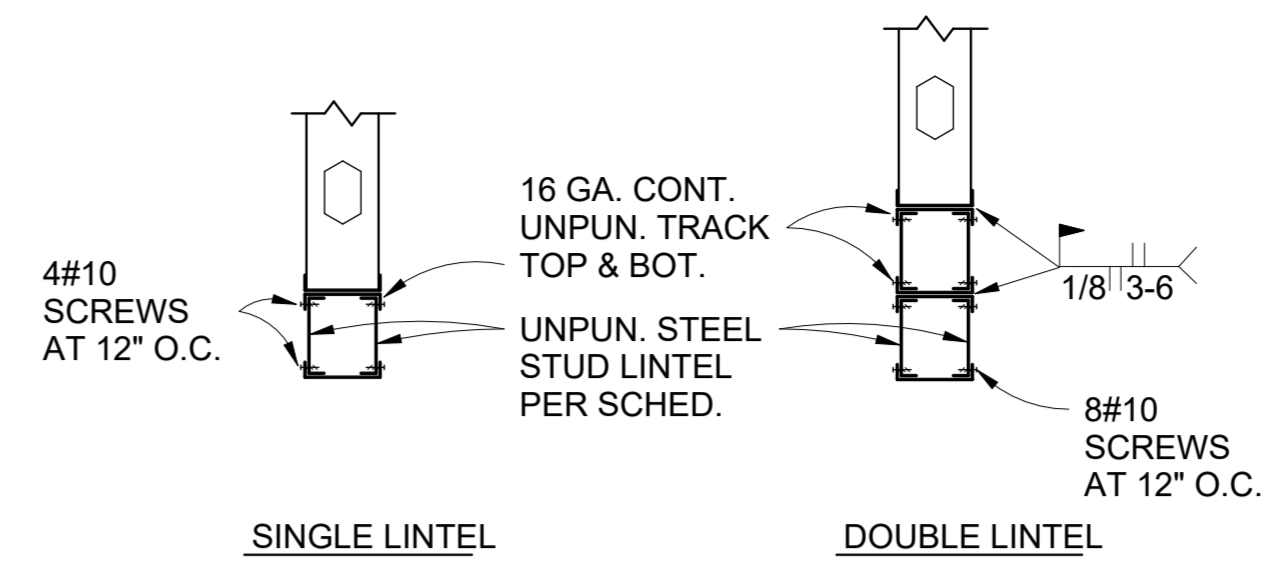
Structural Details



TYP. WALL AND OPENING FRAMING (A)



TYP BASE TRACK CONN AT CONC (B)

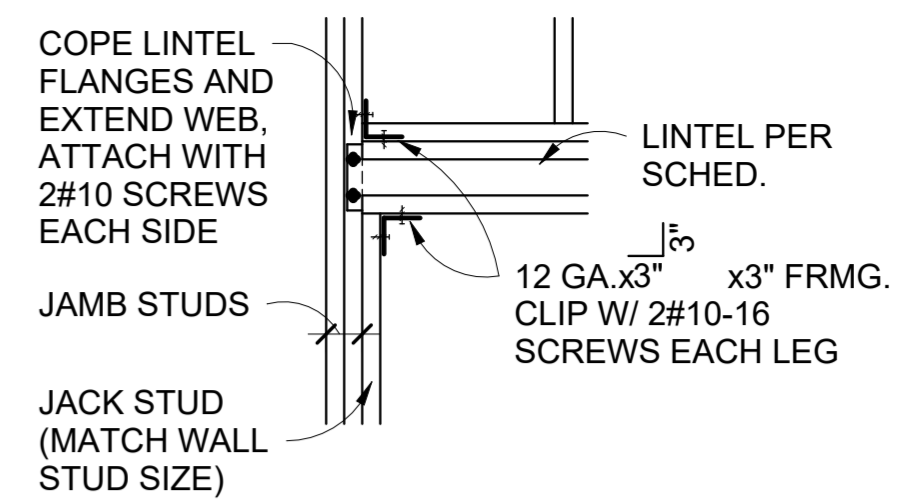


TYPICAL LINTEL DETAILS (C)

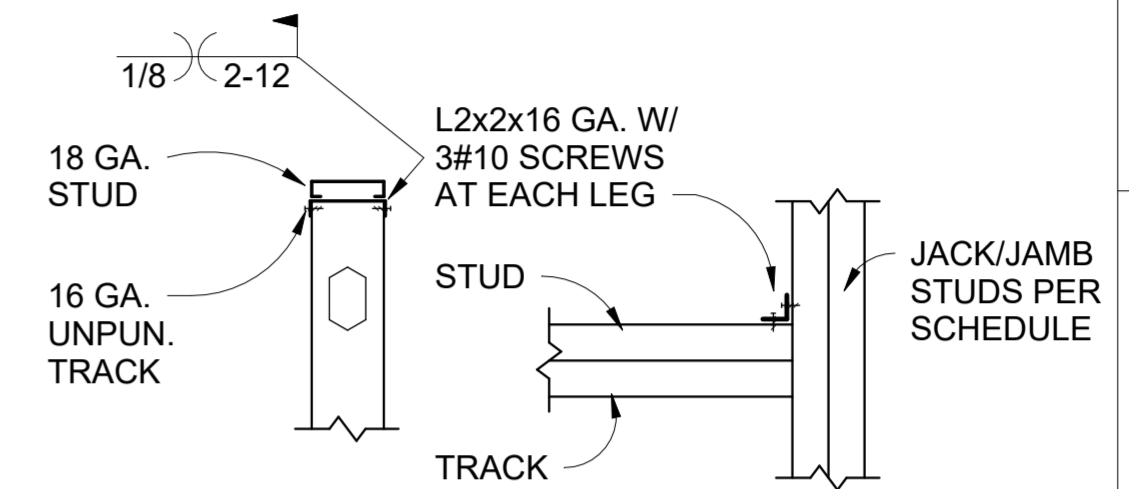
OPENING SCHEDULE U.N.O.

ROUGH OPENING	LINTEL	JAMB STUD(S)
UP TO 4'-0"	2-6"x18GA.	1 STUD
+4'-0" TO 8'-0"	2-8"x18GA.	2 STUDS
+8'-0" TO 10'-0"	4-6"x16GA.	3 STUDS
+10'-0" - SEE PLANS AND ELEVATIONS		

OPENING SCHEDULE (D)



TYP. LINTEL BEARING (E)



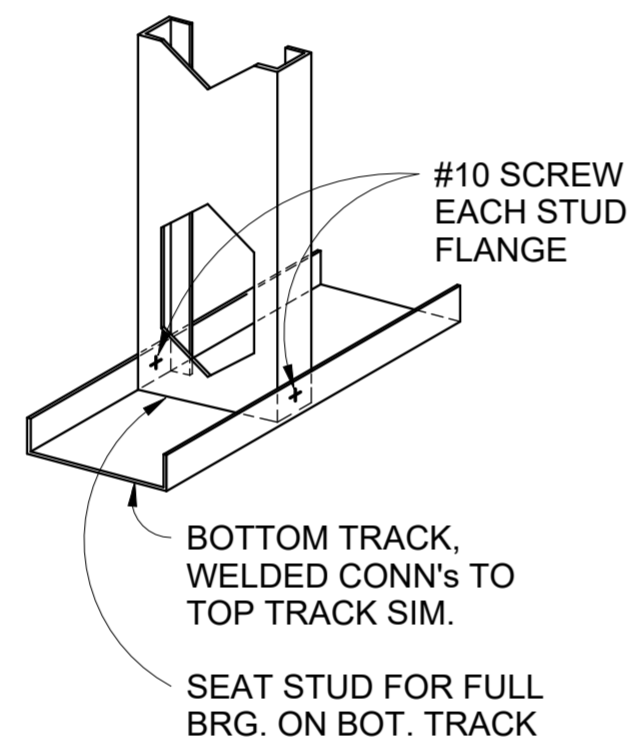
TYP. SILL DETAILS (F)

MIN. STRUCTURAL PROPERTIES FOR STRUCTURAL STUDS AND TRACKS

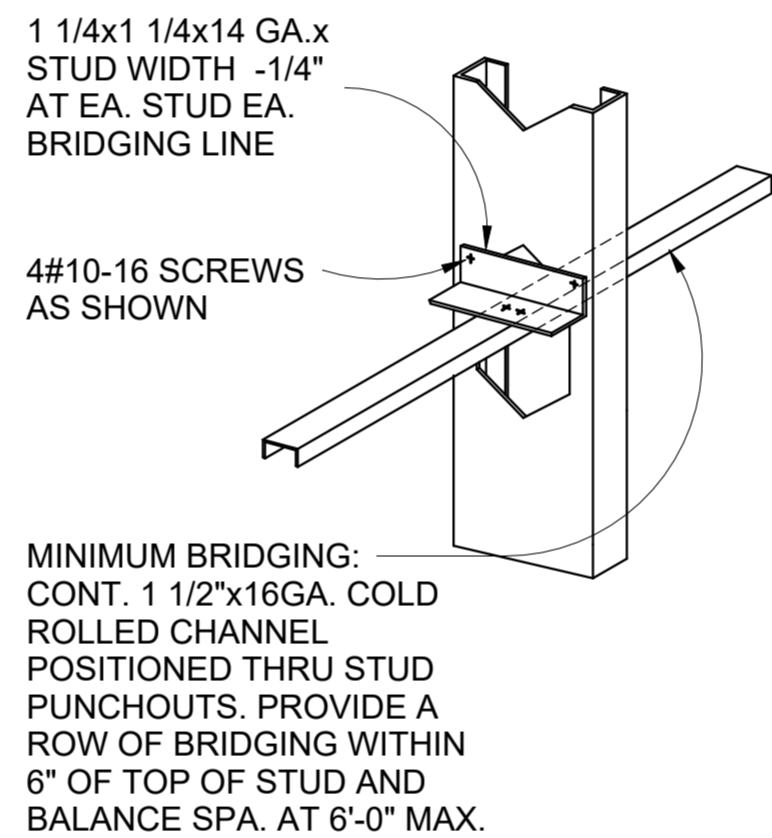
STUDS	TRACKS	S _x	I _x
600S162-43	6.207"	S _x =0.767 IN. ³	I _x =2.316 IN. ⁴
600S162-54	6.207"	S _x =0.927 IN. ³	I _x =2.860 IN. ⁴
600S162-68	6.207"	S _x =1.164 IN. ³	I _x =3.525 IN. ⁴
600S162-97	6.207"	S _x =1.599 IN. ³	I _x =4.797 IN. ⁴
600T125-54	6.207"	S _x =0.653 IN. ³	I _x =2.221 IN. ⁴
600T125-68	6.207"	S _x =0.874 IN. ³	I _x =2.930 IN. ⁴
600T125-97	6.207"	S _x =1.374 IN. ³	I _x =4.281 IN. ⁴

NOTES:
1) 54 MIL, 68 MIL AND 97 MIL STUDS AND TRACK SHALL BE 50 KSI
33 MIL AND 43 MIL STUDS AND TRACKS SHALL BE 33 KSI

MIN. STUD AND TRACK PROPERTIES (G)



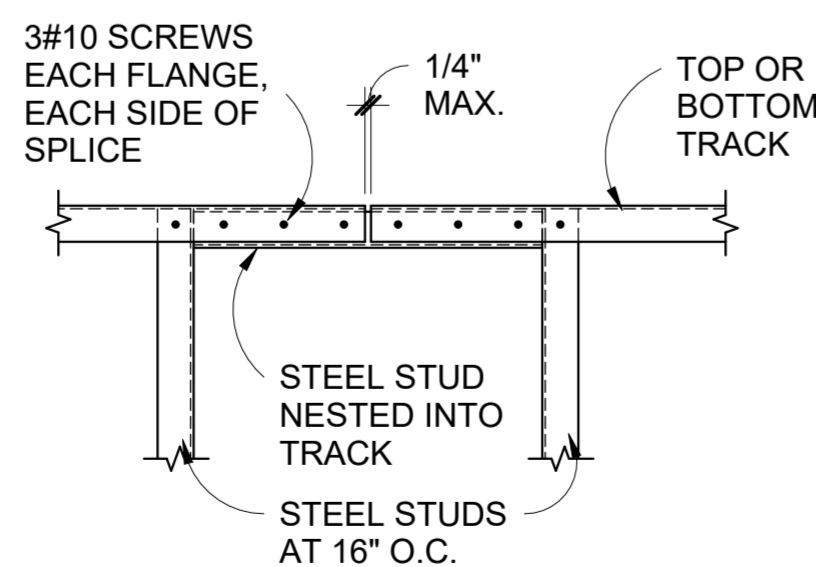
TYP. STUD TO TRACK CONN. (H)



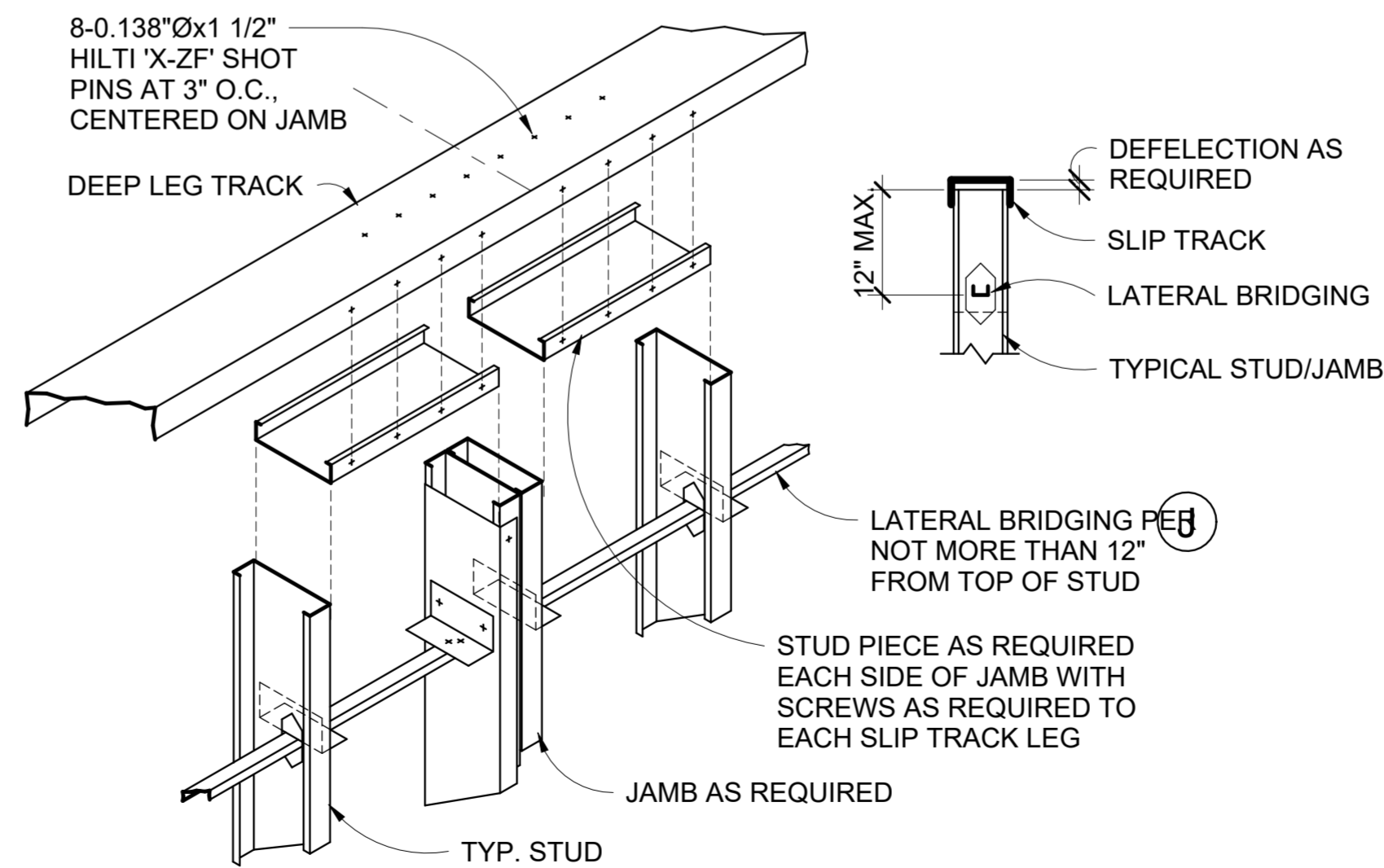
TYP. STUD BRIDGING (J)

NOT USED

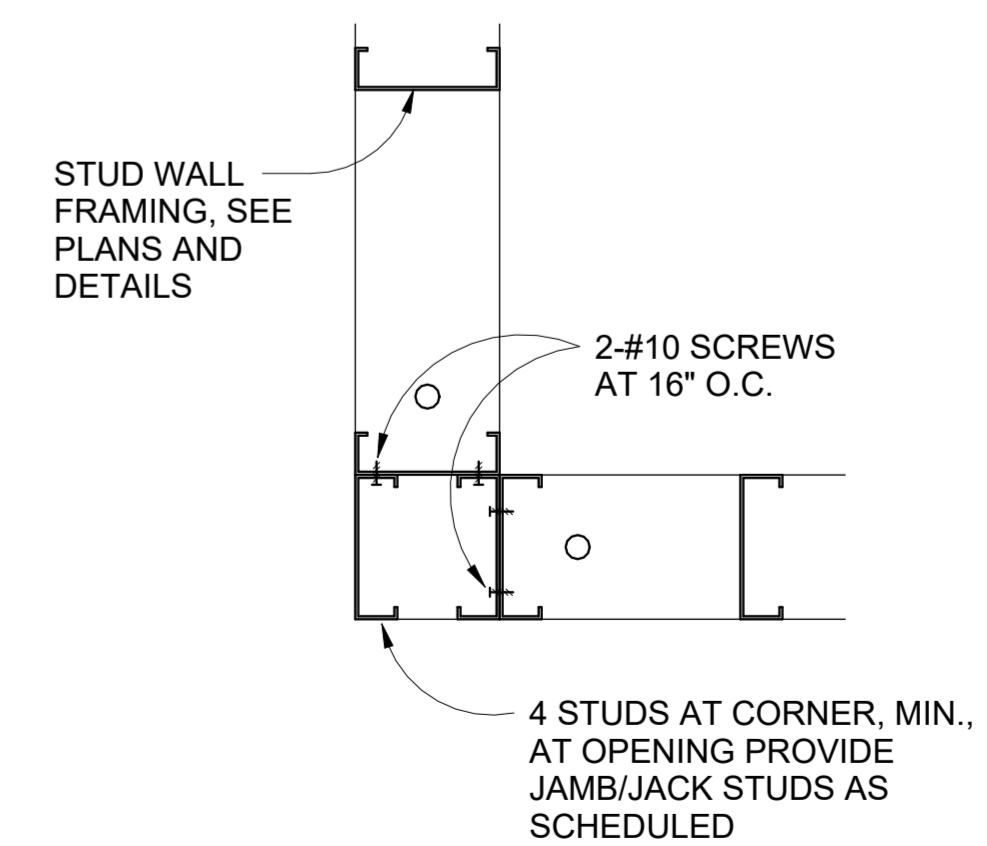
(K)



TYP TRACK SPLICE (L)



SLIP TRACK DETAIL AT STUD JAMB (M)



TYP. PLAN AT CORNER (N)

1 TYPICAL STRUCTURAL STEEL STUD WALL FRAMING

Breckenridge
g r a d u a t e
a r c h i t e c t s
p l a n n e r s

1735 e ft. lowell rd. #12
tucson arizona 85719
520.882.9944

Tubac Fire Station #1
2227 I-19 Frontage Rd., Tubac, AZ 85646

Design Development

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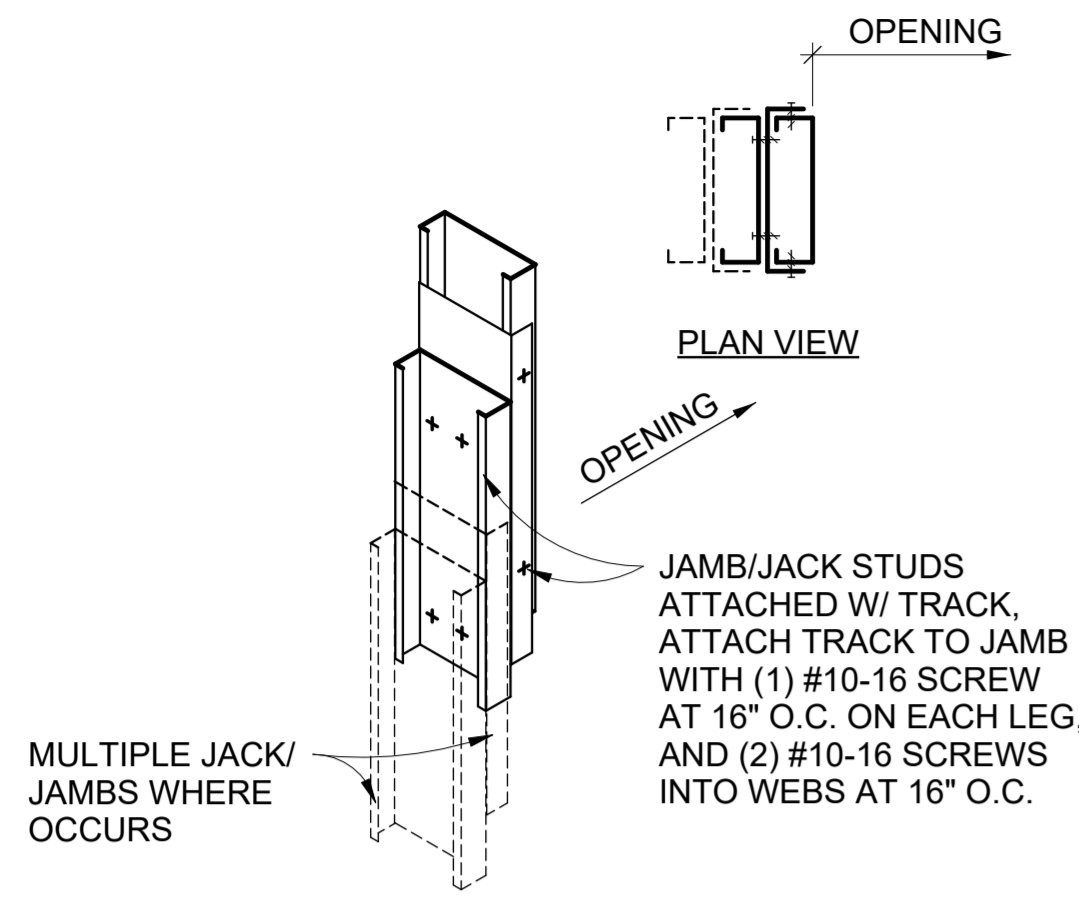
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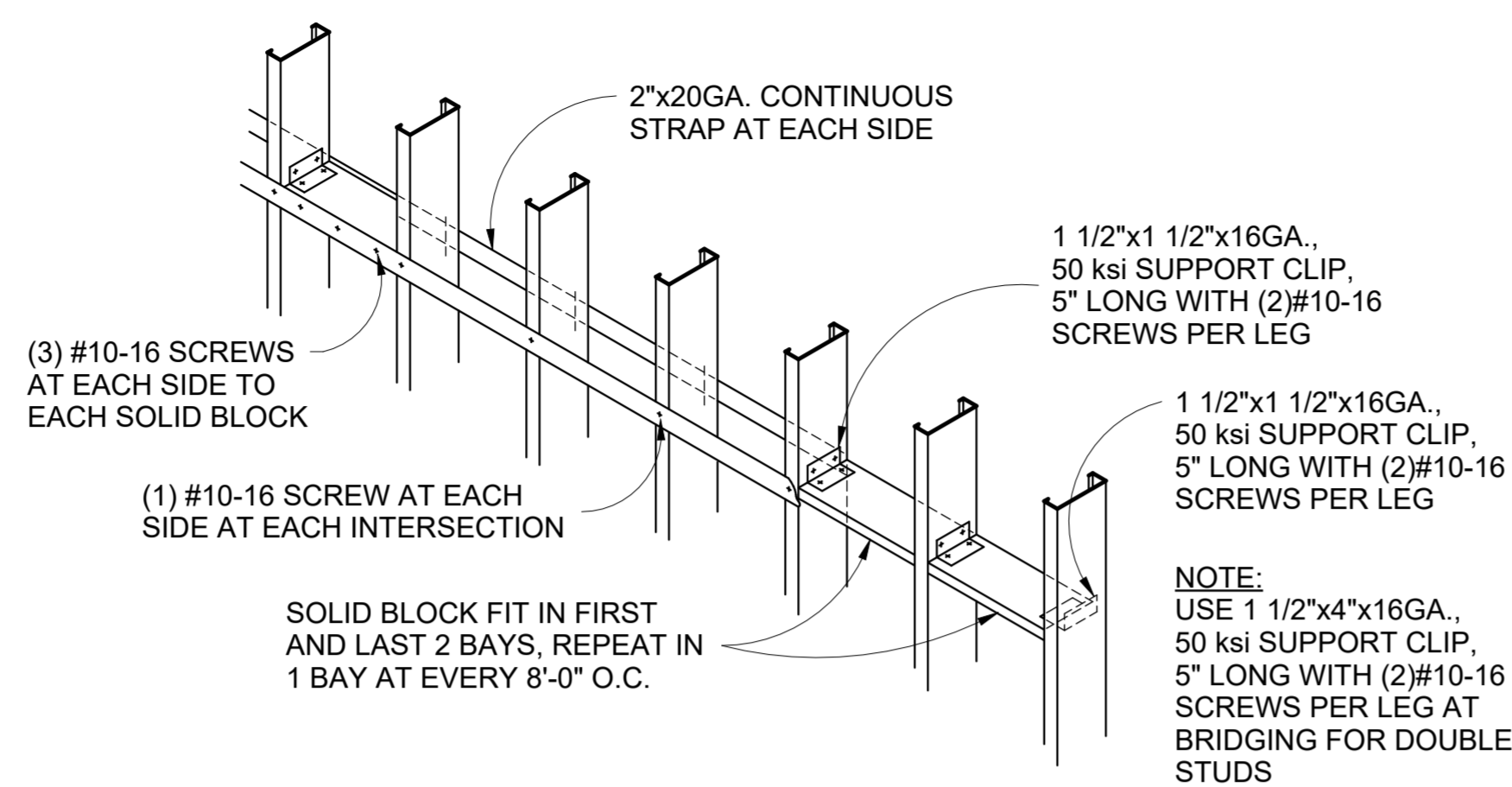
Structural Details

& MARTIN WHITE GRIFFIS
STRUCTURAL ENGINEERS, INC.

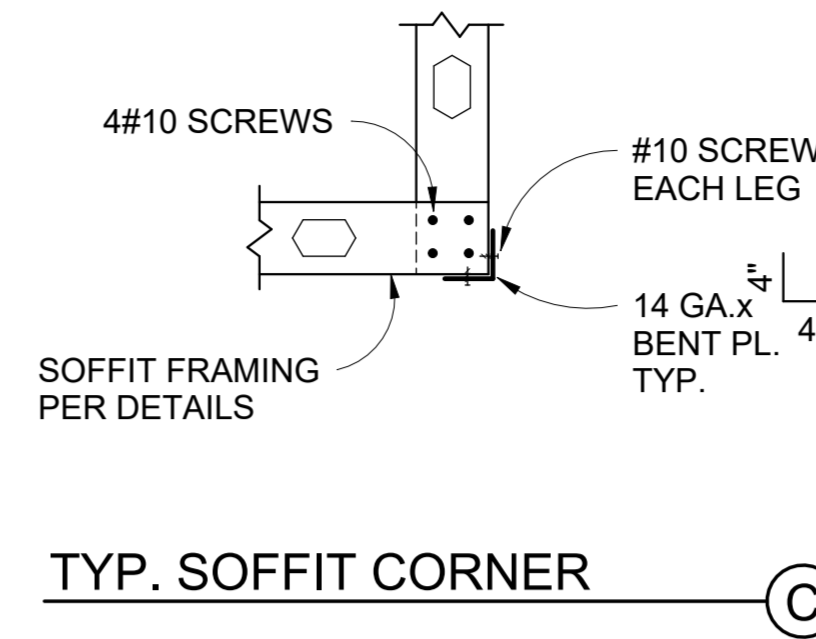
S51



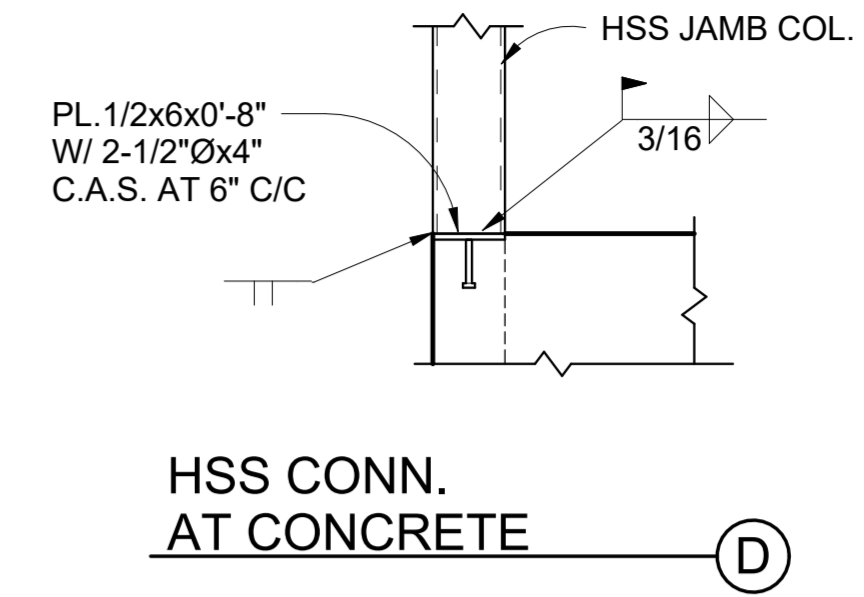
MUTIPLE JACK/JAMB STUD DETAIL (A)



BLOCK AND STRAP BRIDGING (B)

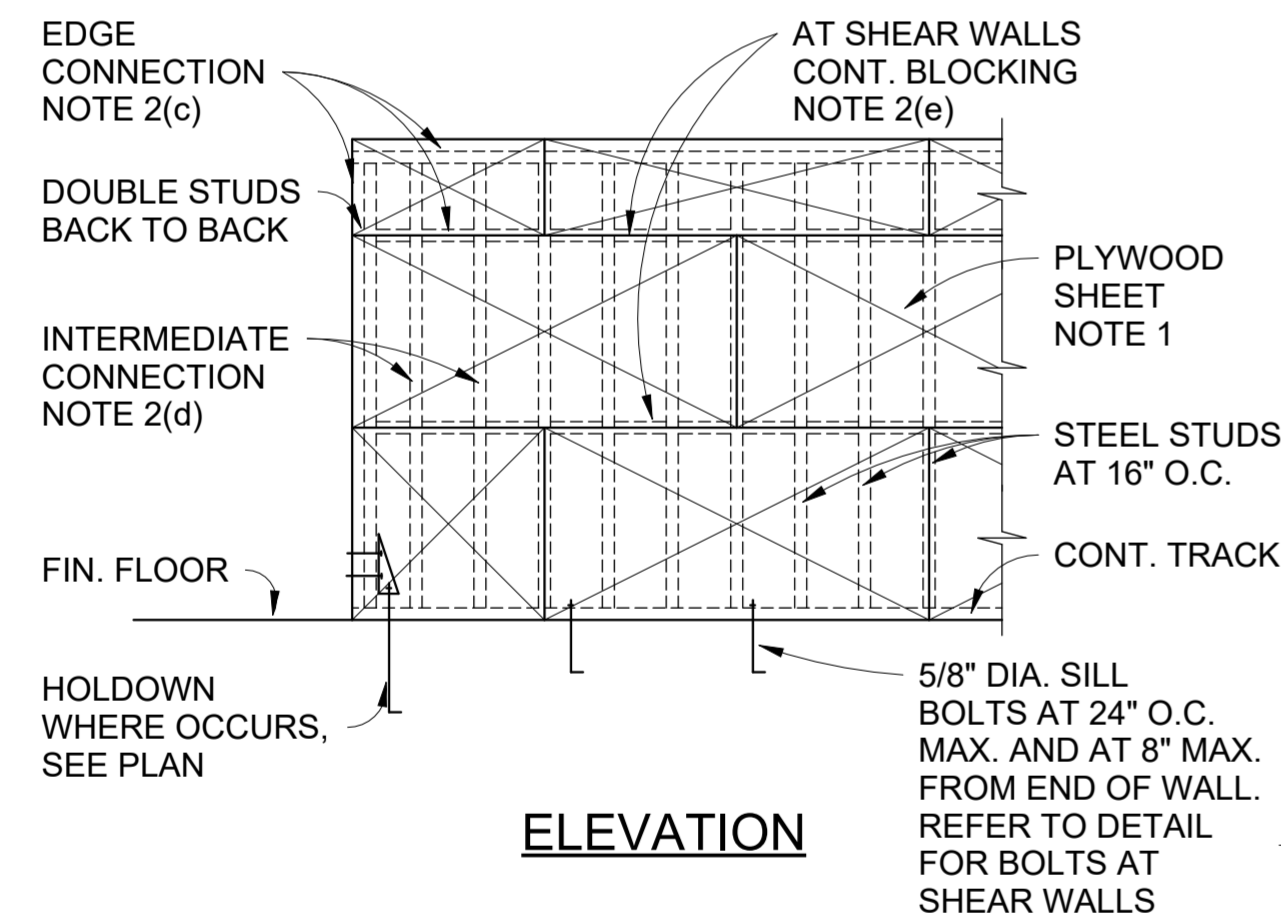


TYP. SOFFIT CORNER (C)



HSS CONN. AT CONCRETE (D)

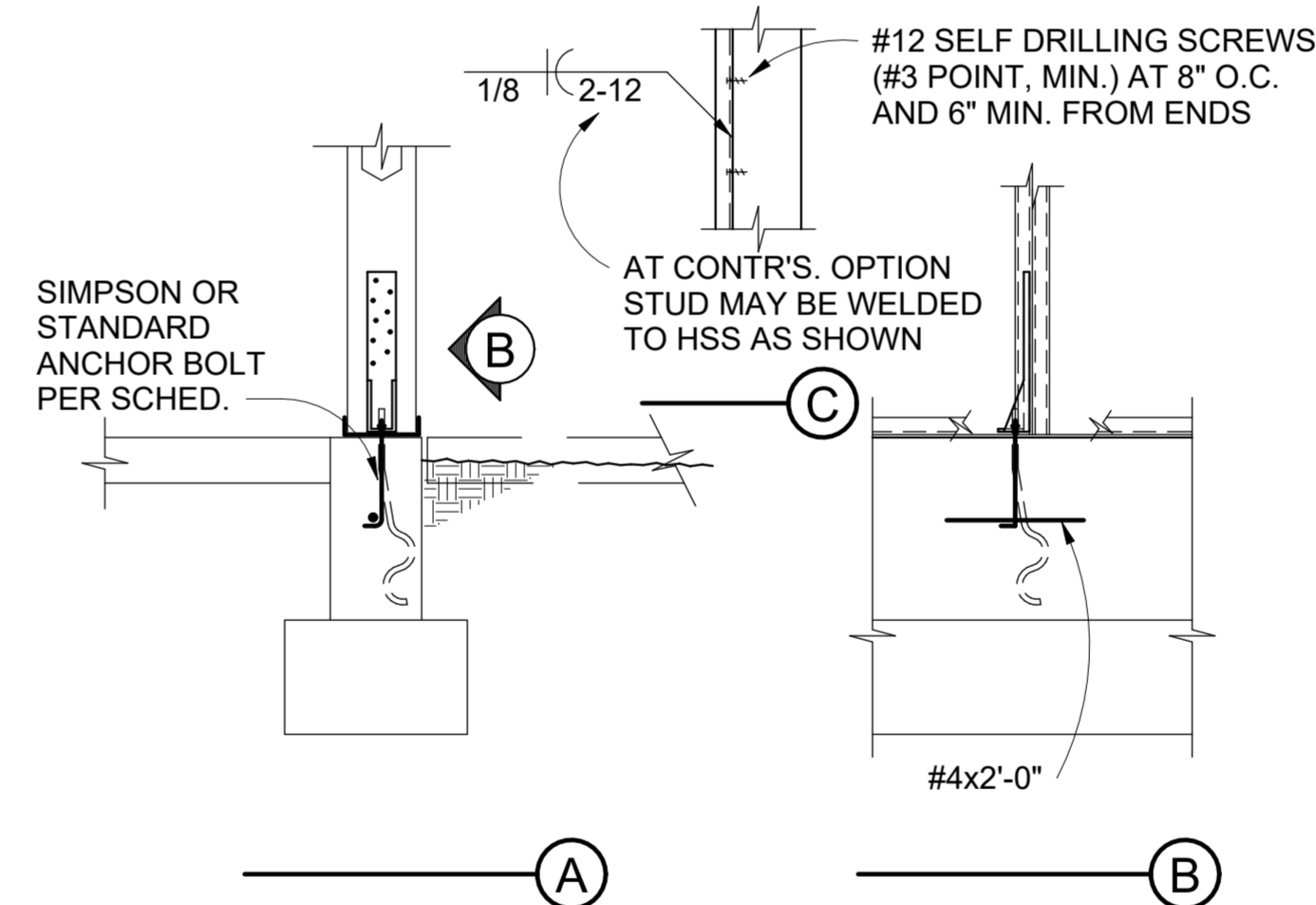
1 TYPICAL STRUCTURAL STEEL STUD WALL FRAMING (CONTINUED)



2 TYP. WALL SHEATHING NO SCALE

NOTES:

- PLYWOOD:
 - WALLS: 1/2" PLYWOOD.
 - STAGGER SHEETS AS SHOWN.
 - RUN FACE GRAIN HORIZONTAL.
 - MINIMUM SHEET SIZE SHALL BE 2'-0"x4'-0".
- MINIMUM ATTACHMENTS: (REFER TO DETAIL AT SHEAR WALLS).
 - SCREWS SHALL BE #8 FLAT HEAD SELF TAPPING WITH MINIMUM HEAD DIAMETER OF 0.292".
 - MINIMUM EDGE DISTANCE SHALL BE 3/8", AND SCREWS SHALL NOT BE OVERDRIVEN THRU OUTER PLY.
 - EDGE CONNECTION: SCREW AT 6" O.C., EDGES AT OPENINGS: SCREWS AT 6" O.C.
 - INTERMEDIATE:
 - TYP.: SCREW AT 12" O.C.
 - BLOCK ALL EDGES WITH 16GA. UNPUN. TRACK BLOCKING AND STRAPING PER DETAIL. AT SHEAR WALL ONLY.
 - BRIDGING PER - NOT REQUIRED AT SHEAR WALLS.



3 HOLDDOWN DETAIL NO SCALE

HOLDOWN (HD) SCHEDULE				
MARK	SIMPSON HOLDDOWN	STUD CONN.	BASE CONN.	NOTES
HD1	S/HTT14	14#10 SCREWS DOUBLE STUDS	SIMPSON 'SSTB16'	MIN. EMBED. 12 5/8"

SHEARWALL SCHEDULE				
WALL TYPE	SHEATHING MATERIAL	EDGE SCREWS	FIELD SCREWS	BOTTOM TRACK ANCHOR BOLTS
SW1				

NOTES:

- FOR LOCATION OF SHEAR WALLS, SEE PLANS.
- ALL PLYWOOD EDGES SHALL BE BLOCKED WITH STEEL STUD BLOCKING PER DETAIL.
- USE 6 ANCHORS MINIMUM AT SHEAR WALLS.
- REFER TO DETAIL FOR ADDITIONAL NOTES.

4 SHEAR WALL SCHEDULE NO SCALE

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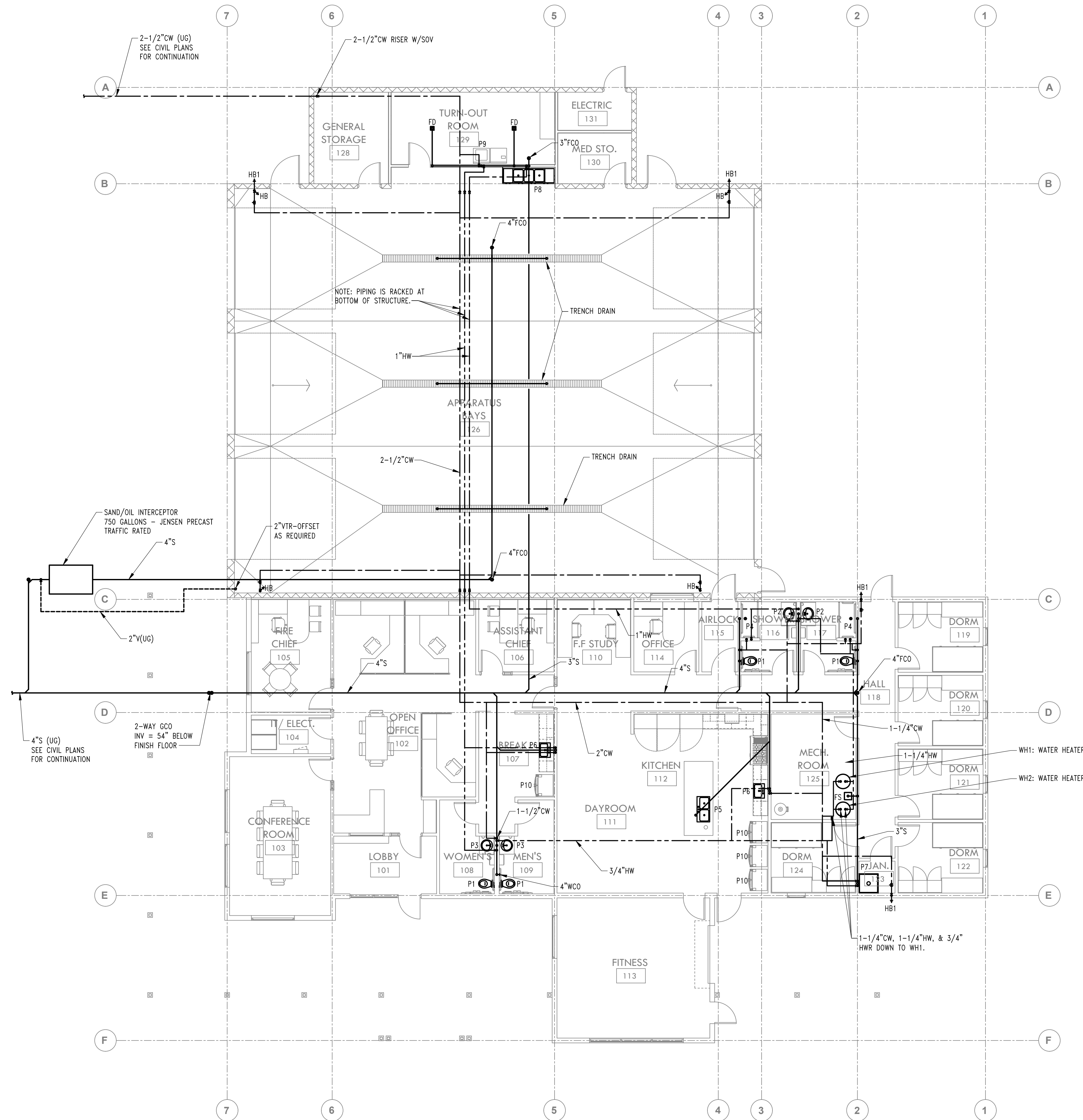
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23.21.00
DATE:
June 28, 2024

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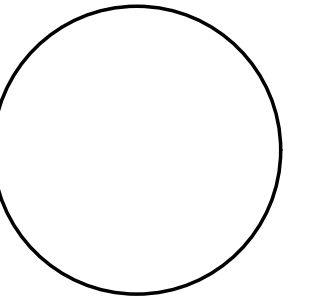


Breckenridge
 Architects
 Planners

1735 e ft. lowell rd. #12
 tucson arizona 85719
 520.882.9944

Tubac Fire Station #1
 2227 I-19 Frontage Rd., Tubac, AZ 85646

Preliminary Plans



PROJECT NO:
 23.21.00

DATE:
 JUNE 2024

#	DATE	DESCRIPTION	ISSUED TO

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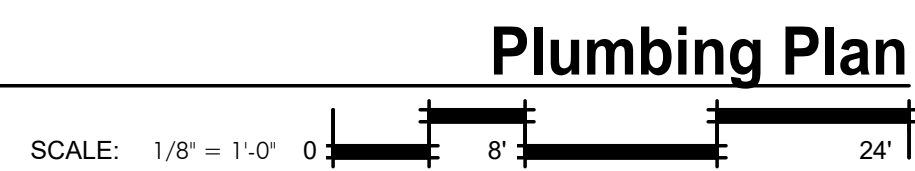
Plumbing Plan

P1.1

KC MECHANICAL
 ENGINEERING, L.L.C.

5447 East Fifth Street # 112
 Tucson, Arizona 85711
 Designers Mech: MQ Plumb: KGW

520/327-7611
 520/327-0432
 Project #: 24-215



Plumbing Plan

PLOT DATE

MARK	FIXTURE	DESCRIPTION	QTY	WASTE		WATER		CONNECTION SIZES (INCHES) **			
				FIXTURE UNITS	TOTAL	FIXTURE UNITS*	TOTAL	WASTE	VENT	HOT	COLD
				FU		FU					
P1	WATER CLOSET (ADA)	KOHLER "HIGHCLIFF" #K-96057, 1.6 GAL./FLUSH MAXIMUM, VITREOUS CHINA, FLOOR MOUNTED, FLUSH VALVE WATER CLOSET W/ADA COMPLIANT HIGH BOWL. PROVIDE SLOAN G2 8111-1.6 BATTERY POWERED FLUSH VALVE, CHURCH #9500SSC SELF-SUSTAINING CHECK HINGES, OPEN FRONT SEAT	4	4	16	5	20	4	2	-	1 1/4
P2	LAVATORY	KOHLER "PENNINGTON" #K-2196, VITREOUS CHINA SELF-RIMMING OVAL LAVATORY. PROVIDE DELTA 520-MPU-DST SINGLE LEVER FAUCET (0.5 GPM) & McGUIRE CHROME PLATED LOOSE KEY QUARTER TURN ANGLE STOPS & SUPPLIES CAST BRASS "P" TRAP & WASTE & STOP INSULATION EQUAL TO TRUEBRO #102. PROVIDE ASSE 1070 CERTIFIED THERMOSTATIC MIXING VALVE EQUAL OF WATTS MODEL # LFUSG-B W/ 3/8" FITTINGS.	2	1	2	1	2	2	1 1/2	1/2	1/2
P3	LAVATORY	KOHLER "PENNINGTON" #K-2196, VITREOUS CHINA SELF-RIMMING OVAL LAVATORY. PROVIDE SLOAN SF-2350 FAUCET (0.5 GPM, 0.25 GALS. MAX PER CYCLE) & GRID DRAIN, McGUIRE CHROME PLATED LOOSE KEY QUARTER TURN ANGLE STOPS & SUPPLIES CAST BRASS "P" TRAP & WASTE & STOP INSULATION EQUAL TO TRUEBRO #102. PROVIDE ASSE 1070 CERTIFIED THERMOSTATIC MIXING VALVE EQUAL OF WATTS MODEL # LFUSG-B W/ 3/8" FITTINGS.	2	1	2	1	2	2	1 1/2	1/2	1/2
P4	SHOWER TRIM	SYMMONS MODEL #C-96-500X-B30-L-V THERMOSTATIC PRESSURE BALANCING MIXING VALVE, HAND HELD SPRAY UNIT AND FIXED SHOWER HEAD. 60" LONG HOSE, INTEGRAL STOPS, VACUUM BREAKER AND 30" SLIDE BAR FOR HAND HELD SPRAY UNIT. PROVIDE 2" ROUND GRID TYPE SHOWER DRAIN SIMILAR TO KOHLER 22675	2	-	-	2	4	-	-	1/2	1/2
P5	KITCHEN SINK	ELKAY #LRAD-3322, (33" X 22" X 6-1/2") STAINLESS STEEL, 2-COMPARTMENT, FOUR HOLE PUNCH, W/DELTA 400-DST FAUCET W/1.5 GPM @ AERATOR & SPRAY, TWO STAINLESS STEEL BASKET STRAINERS, McGUIRE CHROME PLATED, LOOSE KEY QUARTER TURN ANGLE STOPS & SUPPLIES & CAST BRASS "P" TRAP. PROVIDE INSINKERATOR BADGER 15SS CONTINUOUS FEED GARBAGE DISPOSAL W/ 3/4 HP MOTOR.	1	2	2	1.5	1.5	2	1 1/2	1/2	1/2
P6	SINK	ELKAY LRAD252160 SINGLE BOWL, DROP-IN SINK, (25X21-1/4X6) W/BOWL DIMENSIONS (21X15-3/4X5-7/8) SELF-RIMMING, 18 GA STAINLESS STEEL, THREE HOLE PUNCH, W/DELTA MODEL 100-DST FAUCET W/1.5 GPM AERATOR AT 60 PSI, STAINLESS STEEL BASKET STRAINER, CHROME PLATED QUARTER TURN ANGLE STOPS AND SUPPLIES AND CAST BRASS P-TRAP.	2	2	4	2	4	2	1 1/2	1/2	1/2
P7	MOP SINK	FIAT #MSB-2424 MOP SERVICE BASIN (24 X 24), #231 WHITEDRIFT. PROVIDE "FIAT" CHROME PLATED SERVICE FAUCET #830-AA WITH VACUUM BREAKER, HOSE AND HOSE BRACKET #832-AA, MOP HANGER #889-CC AND VINYL BUMPER GUARD #E-77-AA.	1	3	3	3	3	3	2	3/4	3/4
P8	SINK	ELKAY 14-3C16X20-2-18X FREESTANDING SINK WITH DRAINBOARDS, 18 GA. STAINLESS STEEL. PROVIDE CHICAGO FAUCET #445-E35ABCP W/ LEVER HANDLES, 1.5 GPM. PROVIDE STAINLESS STEEL BASKET DRAIN, CAST BRASS "P" TRAP & McGUIRE CHROME PLATED LOOSE KEY QUARTER TURN ANGLE STOPS AND SUPPLIES.	1	2	2	2	2	2	1 1/2	1/2	1/2
P9	WASHER WALL BOX	GUY GRAY #BB200TS, HOSE END VALVES AND WASTE CONNECTION.	1	3	3	4	4	2	2	3/4	3/4
P10	WALL BOX	GUY GRAY #BIM-875, COMPRESSION ANGLE VALVE FOR ICE MAKER HOOK-UP.	4	-	-	-	-	-	-	-	1/2
FS	FLOOR SINK	J.R. SMITH 3110-12, 12"X12"X6" DEEP W/HALF GRATE	1	3	3	-	-	2	1 1/2	-	-
FD	FLOOR DRAIN	J.R. SMITH 2005-BP, COATED CAST IRON BODY AND ADJUSTABLE 5" SQUARE NIKALLOY STRAINER W/ TRAP SEAL GUARD	2	2	4	-	-	2	1 1/2	-	-
HB	HOSE BIBB	WOODFORD #24P-3/4 BRASS HOSE BIBB W/VACUUM BREAKER & REMOVABLE LOOSE KEY HANDLE ATTACHED TO OPERATING STEM.	8	-	-	2.5	1	9.5	-	-	3/4
TOTAL FIXTURE UNITS					41		52				

* PER 2012 IPC SECTION 604.1, THE WATER PIPE SIZE TO CONFORM TO AN ACCEPTED ENGINEERING PRACTICE.
PIPE SIZE IS BASED ON USING IAMPO RECOMMENDATIONS THAT IS AN ACCEPTED ENGINEERING PRACTICE AND IS BASED ON LOW FLOW FIXTURES.
** FIXTURE SERVICE PIPE SIZE SHALL BE THE SIZE INDICATED WITH REDUCER (IF REQ'D) AS CLOSE TO FIXTURE CONNECTION AS POSSIBLE

WATER HEATER SCHEDULE	
MARK	WH1 & WH2
ENTERING WATER TEMPERATURE (DEG. F)	60
LEAVING WATER TEMPERATURE (DEG. F)	140
RECOVERY RATE (GPH)	31
STORAGE VOLUME (GAL.)	55
ELECTRICAL INPUT (KW)	6
VOLTS/PHASE/HZ	480/3/60
REFERENCE	BRADFORD WHITE LE255T3-5
EXPANSION TANK	AMTROL
REFERENCE	ST-12
RELIEF VALVE SETTING (PSIG)	150
NOTES	1 THRU 5

- WATER HEATER SHALL BE UL LISTED.
- RECOVERY RATE SCHEDULED IS FOR SEA LEVEL.
- HEATING ELEMENTS ARE NON-SIMULTANEOUS.
- PROVIDE HEAT TRAP FITTINGS AT COLD & HOT WATER CONNECTIONS EQUAL TO "WATTS".
- PROVIDE RECIRCULATION PUMP EQUAL TO ARMSTRONG ASTRO 225, 1/25 HP, 115/1/60.

KC MECHANICAL ENGINEERING, L.L.C.

5447 East Fifth Street # 112
Tucson, Arizona 85711
Designers Mech: MQ Plumb: KGW
520/327-7611
520/327-0432
Project #: 24-215

Plumbing Schedules

P2.1

PROJECT NO:
23.21.00
DATE:
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REVISION SCHEDULE:		
#	DATE	DESCRIPTION

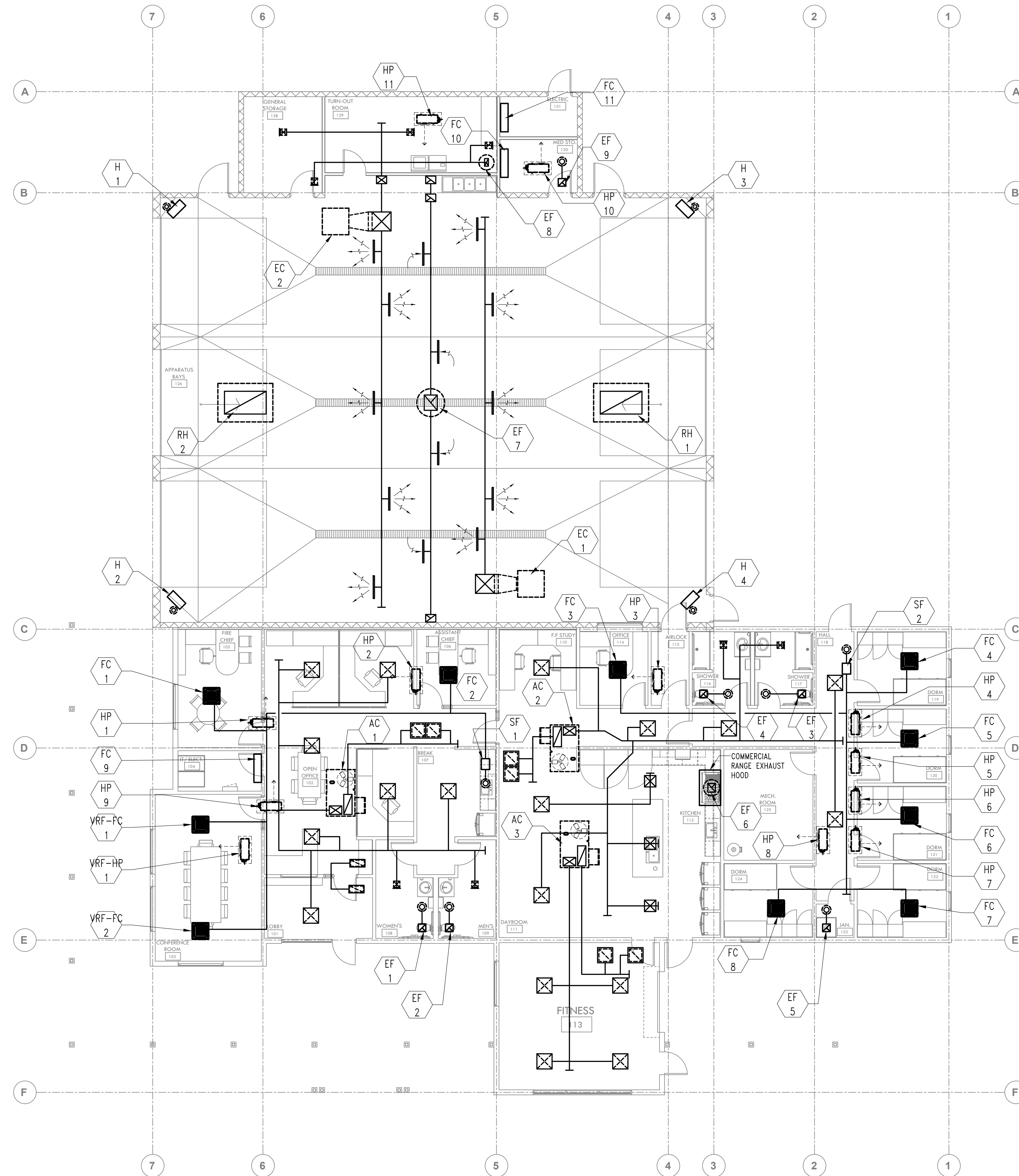
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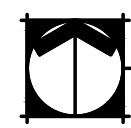
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Tubac Fire Station #1
2227 I-19 Frontage Rd., Tubac, AZ 85646
Preliminary Plans

Breckenridge
Architects
Planners
1735 e ft. lowell rd. #12
tucson arizona 85719
5 2 0 . 8 8 2 . 9 9 4 4



Mechanical Plan



SCALE: 1/8" = 1'-0" 0 8' 24'

KC MECHANICAL ENGINEERING, L.L.C.

5447 East Fifth Street # 112
Tucson, Arizona 85711
Designers Mech: MQ Plumb: KGW Project #: 24-215

520/327-7611
520/327-0432

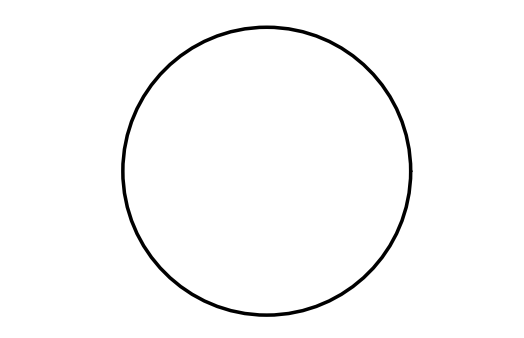
Mechanical Plan

M1.1

Breckenridge
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1735 e ft. lowell rd. #12
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Tubac Fire Station #1
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Preliminary Plans



PROJECT NO:
23.21.00
DATE:
JUNE 2024

#	DATE	DESCRIPTION	ISSUED TO

DRAWN BY: JCG
CHECKED BY: CDA

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PLOT DATE

VRF FAN COIL UNIT SCHEDULE	
MARK	VRF-FC-1 AND 2
MATCHING CONDENSING UNIT MARK	VRF-HP 1
TYPE	CASSETTE
NOMINAL TONNAGE	3/4
NOMINAL COOLING CAPACITY (MBH)	9.1
NOMINAL HEATING CAPACITY	10.0
TOTAL SUPPLY AIR (CFM)	247
TOTAL OUTSIDE AIR (MAX)	20
VOLTS/PHASE/HZ	208/1/60
UNIT AMPS	0.3
WEIGHT (LBS.)	30
FILTER HOUSING SIZE	INTEGRAL
FILTER SIZE	INTEGRAL
REFERENCE	SAMSUNG
REFRIGERANT TYPE	AC009BNDCH/AA
NOTES	1,2,3,4,6
1. SCHEDULE CAPACITY SHALL BE FOR 3267 FT. ELEVATION AT ENTERING AIR CONDITIONS AS SPECIFIED. 2. PROVIDE ALL NECESSARY INTERCONNECTING PIPING (& REFRIGERANT ACCESSORIES) & CONTROL WIRING BETWEEN FAN COIL UNIT, CONTROLLER (AS REQUIRED) & MATCHING CONDENSING UNIT. 3. UNIT SHALL HAVE SINGLE POINT POWER CONNECTION. UNIT DISCONNECT MEANS TO BE PROVIDED BY ELECTRICAL. 4. PROVIDE WASHABLE FILTER AND WALL MOUNTED PROGRAMMABLE THERMOSTAT 5. PROVIDE EXTERNAL CONDENSATE PUMP EQUAL TO LITTLE GIANT MODEL VCMA-20ULS, 1/30 HP, 115/1/60, 1.5 AMPS, 93 WATTS. 6. PROVIDE FACTORY INSTALLED INTERNAL CONDENSATE PUMP	

VRF HEATPUMP UNIT SCHEDULE	
MARK	VRF-HP 1
TYPE	HEAT PUMP
INDOOR UNIT TYPE	CASSETTE
NOMINAL TONNAGE	1.5
NUMBER OF CONNECTED INDOOR UNITS	2
NOMINAL TOTAL COOLING CAPACITY (MBH)	18.0
COOLING AMBIENT TEMPERATURE (DEG. F)	95
NOMINAL HEATING CAPACITY (MBH)	22.0
HEATING AMBIENT TEMPERATURE (DEG. F)	47
UNIT ENERGY EFFICIENCY RATIO (SEER)	18.8
VOLTS/PHASE/HZ	208/1/60
UNIT MCA	16.5
UNIT MOCP	20
WEIGHT (LBS)	175
REFRIGERANT TYPE	R410A
REFERENCE	SAMSUNG
REFRIGERANT TYPE	AJ020BXJ2CH/AA
NOTES	1 THRU 5
1. SCHEDULE CAPACITY SHALL BE FOR 3267 FT. ELEVATION. CAPACITY OF UNIT SHALL BE AS SCHEDULED TO PROVIDE REQUIRED CAPACITY FOR ALL CONNECTED INDOOR UNITS. 2. PROVIDE SINGLE POINT POWER CONNECTION. UNIT DISCONNECT MEANS TO BE PROVIDED BY ELECTRICAL. 3. PROVIDE ALL NECESSARY CONTROLS TO PREVENT COMPRESSOR RAPID RECYCLING AND ALL FEATURES STANDARD TO THE UNIT SCHEDULED. 4. PROVIDE ADDITIONAL REFRIGERANT AS REQUIRED BY MANUFACTURER'S LITERATURE FOR SUM TOTAL OF ALL LINE SETS ON SYSTEM. 5. PROVIDE LOW AMBIENT COOLING KIT TO MINIMUM 20 DEG F.	

SUPPLY FAN SCHEDULE		
MARK	SF-1	SF-2
TYPE	IN-LINE	IN-LINE
WHEEL TYPE	FC	FC
AIR FLOW (CFM)	85	85
E.S.P. (IN W.G.)	0.25	0.25
DRIVE TYPE	DIRECT	DIRECT
MAXIMUM FAN SPEED (RPM)	838	838
MAXIMUM SONES	1.2	1.2
MOTOR HP	31 WATTS	31 WATTS
VOLTS/PHASE/HZ	115/1/60	115/1/60
MAXIMUM OPERATING WEIGHT (LBS)	25	25
REFERENCE	COOK	COOK
REFERENCE	GN-148	GN-148
NOTES	1 THRU 7	1 THRU 6, 8
1. SCHEDULE CAPACITY SHALL BE FOR 3267 FT ELEVATION. 2. FAN PERFORMANCE SHALL BE AMCA CERTIFIED. 3. PROVIDE WALL CAP WITH BIRSCREEN 4. PROVIDE DISCONNECT SWITCH AND FACTORY INSTALLED SPEED CONTROLLER 5. PROVIDE (NEOPRENE) HANGING ISOLATOR KIT WITH BRACKETS. 6. PROVIDE INLET AND DISCHARGE DUCT COLLARS. 7. INTERLOCK WITH VRF-FC 1, VRF-FC 2, FC-3, AND FC-4 FAN MOTOR 8. INTERLOCK WITH FC-3 THRU FC-8 FAN MOTOR		

EVAPORATIVE COOLER SCHEDULE	
MARK	EC-1 & EC-2
TYPE	SINGLE INLET
MINIMUM ADIABATIC EFF. (%)	89
SUPPLY AIR FLOW (CFM)	10,950
EXT. STATIC PRESSURE ("w.g.)	0.5
FAN TYPE	CENTRIFUGAL
FAN MOTOR HP	3
VOLTS/PHASE/HZ	460/3/60
PUMP MOTOR HORSEPOWER	1.7 AMPS
VOLTS/PHASE/HZ	115/1/60
MEDIA TYPE	8" CELdek
MAXIMUM OPERATING WEIGHT (LBS.)	1200
REFERENCE	PHOENIX
REFERENCE	ID601
NOTES	1,2,3
1. SCHEDULE CAPACITY SHALL BE FOR 3270 FT. ELEVATION. 2. PROVIDE RECIRCULATION PUMPS AND BLEED/FLUSH KITS; COMPLETE WITH BLEED LINES. 3. PROVIDE SINGLE POWER CONNECTION WITH FACTORY INSTALLED DISCONNECT SWITCH	

EXHAUST FAN SCHEDULE						
MARK	EF-1 THRU 4	EF-5	EF-6	EF-7	EF-8	EF-9
TYPE	CEILING	CEILING	ROOFTOP	ROOFTOP	ROOFTOP	ROOFTOP
WHEEL TYPE	F.C.	F.C.	B.I.	B.I.	F.C.	F.C.
AIR FLOW (CFM)	150	50	1150	3075	1000	100
E.S.P. (IN W.G.)	0.25	0.25	1	0.25	0.25	0.25
DRIVE TYPE	DIRECT	DIRECT	BELT	BELT	BELT	DIRECT
MAXIMUM FAN SPEED (RPM)	825	688	1231	746	1128	909
MAXIMUM SONES	2.5	1	10.6	8.9	7	1.5
MOTOR HP	61 WATTS	23 WATTS	1/2	1/2	1/4	34 WATTS
VOLTS/PHASE/HZ	115/1/60	115/1/60	460/3/60	460/3/60	115/1/60	115/1/60
MAXIMUM OPERATING WEIGHT (LBS)	25	25	200	200	125	25
REFERENCE	COOK	COOK	COOK	COOK	COOK	COOK
REFERENCE	GC-186	GC-128	ACRU-165	ACE-195	ACE-120	GC-148
NOTES						

CONDENSING UNIT SCHEDULE				
MARK	HP-1 THRU HP-8	HP-9 AND HP-10	HP-11	
MATCHING FAN COIL UNIT MARK	FC-1 THRU FC-8	FC-9 AND FC-10	FC-11	
COOLING AMBIENT TEMPERATURE (DEG. DB)	95	95	95	
MINIMUM SEASONAL ENERGY EFFICIENCY RATIO (SEER)	21	21	23	
UNIT MCA	10.9	21	12.5	
UNIT MOCP	15	30	20	
VOLTS/PHASE/HZ	208-230/1/60	208-230/1/60	208-230/1/60	
MAXIMUM OPERATING WEIGHT (LBS.)	150	225	150	
REFERENCE	SAMSUNG	SAMSUNG	SAMSUNG	
REFERENCE	AC009BXADCH/AA	AR18CSDABWKXCV	AR12CSDABWKXCV	
NOTES	1 THRU 6	1 THRU 6	1 THRU 6	
1. CAPACITY OF UNIT SHALL BE AS SCHEDULE FOR MATCHING FAN COIL UNIT. 2. PROVIDE ALL FEATURES STANDARD TO THE UNIT SCHEDULED. FAN RELAY, LIQUID LINE FILTER DRIER, ANTI-RECYCLING CONTROL (TO PREVENT RAPID COMPRESSOR RECYCLING) & START RELAY/CAPACITOR KIT (FOR EASY STARTING). 3. PROVIDE LOW AMBIENT CONTROL TO 25 DEG. F. 4. PROVIDE 5 YEAR COMPRESSOR WARRANTY 5. MOUNT ON 3/4" WAFFLE STYLE ISOLATORS EQUAL OF MASON INDUSTRIES 'SUPER W' OR EQUIVALENT. 6. PROVIDE ROOF CURB FOR CONDENSING UNIT.				

UNIT HEATER SCHEDULE	
MARK	H-1 THRU H-4
TYPE	SEPARATED COMBUSTION
ENERGY SOURCE	NATURAL GAS
NATURAL GAS INPUT (CFH)	60
MINIMUM COMBUSTION EFF %	83
NUMBER OF STAGES	2
AIR FLOW (CFM)	750
BLOWER MOTOR HP	1/6
VOLTS/PHASE/HZ	115/1/60
MAXIMUM OPERATING WEIGHT (LBS)	100
REFERENCE	REZNOR
REFERENCE	UDAS-60
NOTES	1 THRU 6
1. SCHEDULE CAPACITY SHALL BE FOR 3267 FT. ELEVATION. 2. PROVIDE TWO-STAGE NATURAL GAS VALVE. 3. PROVIDE 409 STAINLESS STEEL HEAT EXCHANGERS. 4. PROVIDE VERTICAL COMBUSTION AIR/VENT KIT. 5. PROVIDE CONTROL POWER TRANSFORMER & LOW VOLTAGE REMOTE T'STAT. 6. INSTALL UNIT HEATERS AS PER MANUFACTURER'S INSTRUCTIONS.	

FAN COIL UNIT SCHEDULE					
MARK	FC-1	FC-2 AND FC-3	FC-4 THRU FC-8	FC-9 AND FC-10	FC-11
MATCHING CONDENSING UNIT MARK	HP-1	HP-2 AND HP-3	HP-4 THRU HP-8	HP-9 AND HP-10	HP-11
TYPE	CASSETTE	CASSETTE	CASSETTE	WALL MOUNTED	WALL MOUNTED
MINIMUM TOTAL COOLING CAPACITY (MBH)	9.1	9.1	9.1	18	12
MINIMUM TOTAL HEATING CAPACITY (MBH)	10	10	10	N/A	N/A
ENTERING AIR TEMPERATURE (DEG. DB/WB)	80/67	80/67	80/67	80/67	80/67
TOTAL SUPPLY AIR (CFM)	247	247	247	533	374
OUTSIDE AIR (CFM)	15	10	15	N/A	N/A
DRIVE TYPE	DIRECT	DIRECT	DIRECT	DIRECT	DIRECT
VOLTS/PHASE/HZ	208/1/60	208/1/60	208/1/60	208/1/60	208/1/60
FULL LOAD AMPS	65	65	65	27	27
MAXIMUM OPERATING WEIGHT (LBS.)	30	30	30	30	25
REFERENCE	SAMSUNG	SAMSUNG	SAMSUNG	SAMSUNG	SAMSUNG
REFERENCE	AC018BNDCH/AA	AC018BNDCH/AA	AC018BNDCH/AA	AR18CSDABWKXCV	AR12CSDABWKXCV
NOTES	1 THRU 6	1 THRU 6	1 THRU 6	1 THRU 6	1 THRU 6
1. SCHEDULE CAPACITY SHALL BE FOR 3267 FT. ELEVATION. 2. PROVIDE ALL NECESSARY INTERCONNECTING PIPING (& REFRIGERANT ACCESSORIES) & CONTROL WIRING BETWEEN FAN COIL UNIT & MATCHING CONDENSING UNIT. 3. FAN COIL UNIT SHALL HAVE SINGLE POINT POWER CONNECTION. 4. REFRIGERANT PIPING SHALL BE SIZED PER MANUFACTURER'S RECOMMENDATIONS FOR LONG LENGTH APPLICATIONS. 5. MANUFACTURER SHALL PROVIDE ALL NECESSARY DEVICES, VALVES, ETC. AS REQUIRED FOR THIS APPLICATION. 6. PROVIDE MODEL WIRED WALL MOUNTED CONTROLLER. 7. PROVIDE INTERNAL CONDENSATE PUMP					

AIR CONDITIONING UNIT SCHEDULE (PACKAGED ROOFTOP)			
MARK	AC-1	AC-2	AC-1
NOMINAL TONNAGE	3		3
MINIMUM TOTAL COOLING CAPACITY (MBH)			
MINIMUM SENSIBLE COOLING CAPACITY (MBH)			
COOLING AMBIENT TEMPERATURE (DEG. F)	110		
ENTERING AIR TEMPERATURE (DEG/DB/WB)			
MINIMUM SEASONAL ENERGY EFFICIENCY RATIO (SEER)			
MINIMUM NUMBER OF COMPRESSORS			
TYPE OF HEATING CAPACITY	NATURAL GAS	NATURAL GAS	NATURAL GAS
MINIMUM HEATING CAPACITY (MBH)			
HEATING AMBIENT TEMPERATURE (DEG.F)			
MAXIMUM NATURAL GAS INPUT (CFH)			
MINIMUM NUMBER HEATING STAGES			
ENTERING AIR TEMPERATURE (DEG DB)			
SUPPLY AIR (CFM)			
MINIMUM OUTSIDE AIR (CFM)			
EXT. STATIC PRESSURE ("w.g)			
DRIVE TYPE	DIRECT	DIRECT	DIRECT
MAXIMUM OPERATING WEIGHT (LBS)	750	1500	750
VOLTS/PHASE/HZ	460/3/60	460/3/60	460/3/60
UNIT MCA	9	28	9
UNIT MOCP	15	40	15
REFERENCE	CARRIER	AAON	CARRIER
REFERENCE	48GCD04		48GCD04
NOTES			

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REVISION SCHEDULE:

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 CHECKED BY: CDA

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 Tucson, Arizona 85711
 Designers Mech: MQ Plumb: KGW

520/327-7611
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 Project #: 24-215

Mechanical Schedules

M2.1

SPRINKLER SYSTEM SPECIFICATIONS

PERFORMANCE SPECIFICATION PART 1 - GENERAL

- 1.1 QUALITY ASSURANCE
- A. DESIGN, FURNISH, AND INSTALL COMPLETE AUTOMATIC WET-PIPE FIRE SPRINKLER SYSTEMS IN ALL AREAS OF NEW CONSTRUCTION AS INDICATED IN THE DRAWINGS.
 - B. THE FIRE SPRINKLER SYSTEMS SHALL INCLUDE ALL ITEMS OF A MINOR NATURE NECESSARY TO COMPLETE THE INSTALLATION.
 - C. THE DESIGN SHALL BE BASED ON HYDRAULIC CALCULATIONS FOR THE HAZARD OCCUPANCIES NOTED ON THE DRAWINGS OR AS DETERMINED BY LOCAL AUTHORITIES. THE HYDRAULIC CALCULATIONS SHALL PROVIDE A MINIMUM OF 5 PSI OR 10% (WHICHEVER IS GREATER) SAFETY MARGIN BETWEEN THE SYSTEM DEMAND AND THE AVAILABLE WATER SUPPLY.
 - D. ANY ITEM SUCH AS COVERAGE OF THE BUILDING, PIPE SIZES, HEAD SPACING, AND OTHER REQUIREMENTS OF THE AUTHORITIES HAVING JURISDICTION SHALL BE INCLUDED, WHETHER SPECIFICALLY SHOWN ON THE DRAWINGS OR NOT.

PART 2 - PRODUCTS

- 2.1 DESIGN INTENT
- A. MATERIALS AND EQUIPMENT SHALL BE LISTED FOR USE IN FIRE PROTECTION OR SHALL CONFORM TO THE REQUIREMENTS OF FM GLOBAL FOR SYSTEMS OF THE TYPE INDICATED. THE CONTRACTOR SHALL SUBMIT PROOF THAT THE ITEMS FURNISHED UNDER THIS SPECIFICATION CONFORM TO SUCH REQUIREMENTS. LISTING IN THE FM APPROVAL GUIDE WILL BE ACCEPTABLE EVIDENCE THAT THE ITEMS MEET THIS REQUIREMENT.
 - B. ALL MATERIALS, EQUIPMENT, AND SYSTEM COMPONENTS SHALL BE NEW AND INSTALLED IN ACCORDANCE WITH THEIR LISTING AND MANUFACTURERS RECOMMENDATIONS.

- C. THE NAMING OF MANUFACTURERS IN THESE SPECIFICATIONS SHALL NOT BE CONSTRUED AS ELIMINATING THE MATERIALS, PRODUCTS OR SERVICES OF OTHER MANUFACTURERS AND SUPPLIERS PROVIDING APPROVED EQUIVALENT ITEMS.
- D. THE DIMENSIONS AND RATINGS OF EQUIPMENT HEREIN SPECIFIED, OR INDICATED ON DRAWINGS, ARE INTENDED TO ESTABLISH THE DESIRED OUTLINES AND CHARACTERISTICS OF SUCH EQUIPMENT. MINOR DEVIATIONS WILL BE PERMITTED TO ALLOW MANUFACTURERS' EQUIPMENT ACCOMMODATION. DEVIATIONS OF PHYSICAL DIMENSIONS OF EQUIPMENT, WHICH IMPACT UPON SPACE ALLOCATED TO WORK AREAS OF OTHER EQUIPMENT SHALL NOT BE PERMITTED.

2.2 ACCEPTABLE MANUFACTURERS

- A. SPRINKLER HEADS AND ACCESSORIES:
 1. VICTAULIC
 2. TYCO
 3. RELIABLE
 4. VIKING
- B. GROOVED FITTINGS:
 1. TYCO
 2. VIKING
 3. VICTAULIC

2.3 SPRINKLER HEADS

- A. INSTALL ALL SPRINKLERS IN ACCORDANCE WITH THEIR LISTING AND WITH THE DEFLECTOR PARALLEL TO THE CEILING OR ROOF.
- B. MAINTAIN CLEARANCES BETWEEN THE SPRINKLER DEFLECTOR AND OTHER OBSTRUCTIONS IN ACCORDANCE WITH NFPA 13 FOR EACH SPRINKLER TYPE (STANDARD SPRAY, ESFR, ETC).

- C. IN AREAS WITH SUSPENDED, GYPSUM BOARD, OR FINISHED CEILINGS, RECESSED PENDENT TYPE GLASS BULB SPRINKLER HEADS WITH SATIN CHROME FINISH INCLUDING TWO-PIECE ADJUSTIBLE ESCUTCHEONS WITH MATCHING FINISH SHALL BE PROVIDED. LOCATE HEADS 12" FROM A CEILING "T" ON 3 SIDES OR IN THE CENTER OF 2 X 4 CEILING TILES.
- D. SPRINKLERS IN EXPOSED CONSTRUCTION SHALL BE BRASS UPRIGHT OR PENDENT TYPE.
- E. SPRINKLERS IN AREAS SUBJECT TO FREEZING TO BE DRY-PENDENT OF THE APPROPRIATE TYPE FOR THE HAZARD (STANDARD SPRAY, ESFR, ETC). DRY BARREL SPRINKLERS IN FREEZING AREAS SHALL BE SEALED IN ACCORDANCE WITH NFPA 13 REQUIREMENTS AND MANUFACTURER RECOMMENDATIONS USING EITHER A RUBBER BOOT ASSEMBLY OR APPROVED SEALANT IN THE PENETRATION. BARREL LENGTH SHALL BE SELECTED TO PREVENT FREEZING IN THE WET PIPE SPRINKLER SYSTEM ABOVE.

2.4 PIPE, FITTINGS AND HANGERS

- A. OVERHEAD SPRINKLER PIPING SHALL BE STEEL SCHEDULE 40 AND/OR THIN WALL PIPE OF A TYPE APPROVED FOR FIRE SPRINKLER SERVICES IN NFPA 13 AND MANUFACTURED TO ASTM A53, A135 OR A795. ALL THREADED PIPE SHALL BE SCHEDULE 40.
- B. WET PIPE SPRINKLER PIPING SHALL NOT BE INSTALLED IN AREAS SUBJECT TO FREEZING, INSTALL PIPING ABOVE FREEZERS/COOLERS AND UTILIZE DRY-PENDENT SPRINKLERS.
- C. BOLTED, GROOVED TYPE COUPLINGS AND FITTINGS MAY BE USED.
- D. SECTIONS OF BRANCH LINES, CROSS MAINS, OR RISERS MAY BE WELDED SUBJECT TO LIMITATIONS AS OUTLINED IN NFPA 13.
- E. USE OF MECHANICAL TEE FITTINGS WILL NOT BE PERMITTED AS PART OF NEW CONSTRUCTION WORK.
- F. PLAIN END FITTING SHALL NOT BE USED.
- G. EXCEPT AS PERMITTED BY NFPA 13, THREADED BUSHINGS SHALL NOT BE USED.

PART 3 - EXECUTION

- 3.1 INSTALLATION
- A. THE FIRE PROTECTION SYSTEM SHALL BE DESIGNED, FABRICATED, AND INSTALLED BY A FIRE SPRINKLER CONTRACTOR LICENSED IN THE STATE OF NORTH CAROLINA AND EXPERIENCED IN THIS TYPE OF SYSTEM DESIGN AND INSTALLATION WITH A MINIMUM FIVE (5) YEARS EXPERIENCE.
 - B. SPRINKLER HEAD LOCATIONS SHALL BE COORDINATED WITH LIGHT FIXTURES AND HVAC IN AREAS WITH CEILINGS. UNLESS NOTED OTHERWISE, PRIORITY OF LOCATION IS GIVEN TO LIGHT FIXTURES AND HVAC.
 - C. CAREFULLY OBSERVE OBSTRUCTION RULES FOR SPRINKLERS AND PROVIDE ADDITIONAL SPRINKLERS WHERE REQUIRED UNDER OBSTRUCTIONS.
 - D. CUTTING OF STRUCTURAL MEMBERS FOR THE PASSAGE OF SPRINKLER PIPING OR FOR PIPE HANGER FASTENINGS WILL NOT BE PERMITTED WITHOUT THE ARCHITECT'S AND STRUCTURAL ENGINEER'S APPROVAL.
 - E. ALL HANGERS, HANGER SPACING TO MEET NFPA 13 REQUIREMENTS.
 - F. THE FIRE PROTECTION CONTRACTOR SHALL GUARANTEE TO REPAIR OR REPLACE ANY DEFECT IN MATERIAL, EQUIPMENT, OR WORKMANSHIP FOR A PERIOD OF ONE (1) YEAR BEGINNING WITH THE DATE OF FINAL ACCEPTANCE BY THE ARCHITECT. SUCH DATE WILL BE ESTABLISHED BY WRITTEN COMMUNICATOIN OF ARCHITECT.
 - G. THE FIRE PROTECTION CONTRACTOR SHALL BE RESPONSIBLE DURING THE DESIGN, INSTALLATION, TESTING, AND GUARANTEE PERIODS FOR ANY DAMAGE CAUSED BY THE FIRE PROTECTION CONTRACTOR'S WORK, MATERIALS, OR EQUIPMENT.
 - H. THE FIRE PROTECTION CONTRACTOR SHALL PROVIDE EMERGENCY REPAIR SERVICE FOR THE SPRINKLER SYSTEM WITHIN FOUR (4) HOURS OF A REQUEST FOR SUCH SERVICE BY THE OWNER DURING THE WARRANTY PERIOD. THIS SERVICE SHALL BE AVAILABLE ON A 24-HOUR PER DAY, 7-DAY PER WEEK BASIS.

3.2 INSPECTIONS AND TESTING

- A. PERFORM HYDROSTATIC TESTS AS REQUIRED BY NFPA 13. HYDROSTATICALLY TEST PIPING SYSTEM AT THE GREATER OF 200PSI OR 50PSI ABOVE MAXIMUM SYSTEM PRESSURE FOR NOT LESS THAN TWO (2) HOURS. UPON COMPLETION OF THE TEST AND WHEN SATISFACTORY RESULTS HAVE BEEN OBTAINED, CERTIFY IN WRITING THAT ALL REQUIRED TESTS HAVE BEEN PERFORMED AND THAT APPROVAL OF THE SYSTEM HAS BEEN OBTAINED FROM THE AHJS.
 - B. ALL TESTS SHALL BE PERFORMED IN THE PRESENCE OF THE LOCAL AHJ, GENERAL CONTRACTOR, ARCHITECTS REPRESENTATIVE, AND OWNER'S REPRESENTATIVE.
 - C. THE FIRE PROTECTION CONTRACTOR SHALL FURNISH THE ARCHITECT WITH ONE ELECTRONIC AND ONE HARD COPY OF ALL PERTINENT TEST CERTIFICATES.
- 3.2 FINAL SUBMITTAL
- A. FURNISH 2 BOUND COPIES OF COMPLETE INSTRUCTIONS, INCLUDING CATALOG CUTS, DIAGRAMS, DRAWINGS, AND OTHER DESCRIPTIVE DATA COVERING THE PROPER TESTING, OPERATION, AND MAINTENANCE OF EACH TYPE OF SYSTEM INSTALLED, AND THE NECESSARY INFORMATION FOR ORDERING REPLACEMENT PARTS.
 - B. FURNISH COMPLETE AS-BUILD DRAWINGS SHOWING ALL CHANGES MADE IN THE FIELD, BASED ON A RED-LINED SET MAINTAINED IN THE FIELD DURING CONSTRUCTION.

FIRE FLOWS: IFC B103.1
THE FIRE CODE OFFICIAL IS AUTHORIZED TO REDUCE THE FIRE-FLOW REQUIREMENTS FOR SMALL COMMUNITIES WHERE DEVELOPMENT OF FULL FIRE-FLOW REQUIREMENTS IS IMPRACTICAL.

TUBAC FIRE DEPARTMENT ALLOWS THE USE OF NFPA 1142 TO DETERMINE FIRE FLOWS.

NFPA 1142: WATER SUPPLIES FOR SUBURBAN AND RURAL FIRE FIGHTING
CHAPTER 4: CALCULATING MINIMUM WATER SUPPLIES

- (1) OCCUPANCY HAZARD:
- (2) TYPE OF CONSTRUCTION:
- (3) STRUCTURE DIMENSIONS:
- (4) EXPOSURES:

4.3: STRUCTURES WITH EXPOSURE HAZARDS

WS: MINIMUM WATER SUPPLY IN GAL
VS: TOTAL VOLUME OF STRUCTURE IN CU.FT
OHC: OCCUPANCY HAZARD CLASSIFICATION NUMBER (CHAPTER 5)
CC: CONSTRUCTION CLASSIFICATION NUMBER (CHAPTER 6)

NFPA 1142 TABLE 4.6.1 DICTATES THAT, FOR WATER TANKS OVER 20,000GAL, THE WATER DELIVERY RATE SHALL BE A MINIMUM OF 1,000 GPM.

WHERE THE BUILDING IS PROTECTED BY AN AUTOMATIC SPRINKLER SYSTEM, THE AHJ IS PERMITTED TO REDUCE THE MINIMUM REQUIRED FIRE FLOWS AS INDICATED IN IFC SECTION B103.1 AND NFPA 1142 APPENDIX F.

NFPA 1142 SECTION 4.4 (WITH APPENDIX MATERIAL) ALLOWS THE AHJ TO REDUCE THE WATER DELIVERY RATE TO A MINIMUM FLOW OF 600 GPM WHEN THE BUILDING IS PROTECTED BY AN NFPA 13 SPRINKLER SYSTEM USING QUICK-RESPONSE SPRINKLERS THROUGHOUT THE BUILDING. THE AHJ HAS CONFIRMED THAT A FIRE FLOW OF 600 GPM IS ACCEPTABLE ON THIS PROJECT AS LONG AS QUICK-RESPONSE SPRINKLERS ARE USED THROUGHOUT THE BUILDING IN ACCORDANCE WITH SECITON A4.4.

TUBAC FIRE STATION #1
4.3: STRUCTURES WITH EXPOSURE HAZARDS
BUILDING AREA: 9,632 SQ.FT.

VS = 243,000 (ESTIMATE)
OHC = 7 (CHAPTER 5)
CC = 1.5 (CHAPTER 6)

WS = 78,107 GAL (MINIMUM REQUIRED WATER SUPPLY VOLUME)
FLOW RATE = 600 GPM (NFPA 1142 A4.4 QUICK RESPONSE REDUCTION)
EPCOR WATER SUPPLY MEETS THE MINIMUM FLOW & VOLUME REQUIREMENTS

AUTOMATIC FIRE SPRINKLER MINIMUM WATER SUPPLY ESTIMATE:
REFER TO NFPA 13 FIGURE II.2.3.1.1 AND TABLE II.2.3.1.2

NFPA 13: LIGHT HAZARD (DORM & OFFICE AREAS)
DENSITY: 0.10 GPM/SQ.FT
AREA: 1,500 SQ.FT
SPRINKLER OVERFLOWS: 30%

SPRINKLER SYSTEM DEMAND: 195 GPM
EXTERIOR HOSE STREAM: 100 GPM

MINIMUM TOTAL WATER FLOW: 295 GPM
MINIMUM WATER SUPPLY DURATION: 60 MINUTES

NFPA 13: ORDINARY GROUP I HAZARD (APPARATUS BAY)
DENSITY: 0.15 GPM/SQ.FT
AREA: 1,500 SQ.FT
SPRINKLER OVERFLOWS: 40%

SPRINKLER SYSTEM DEMAND: 315 GPM
EXTERIOR HOSE STREAM: 250 GPM

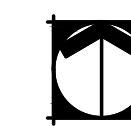
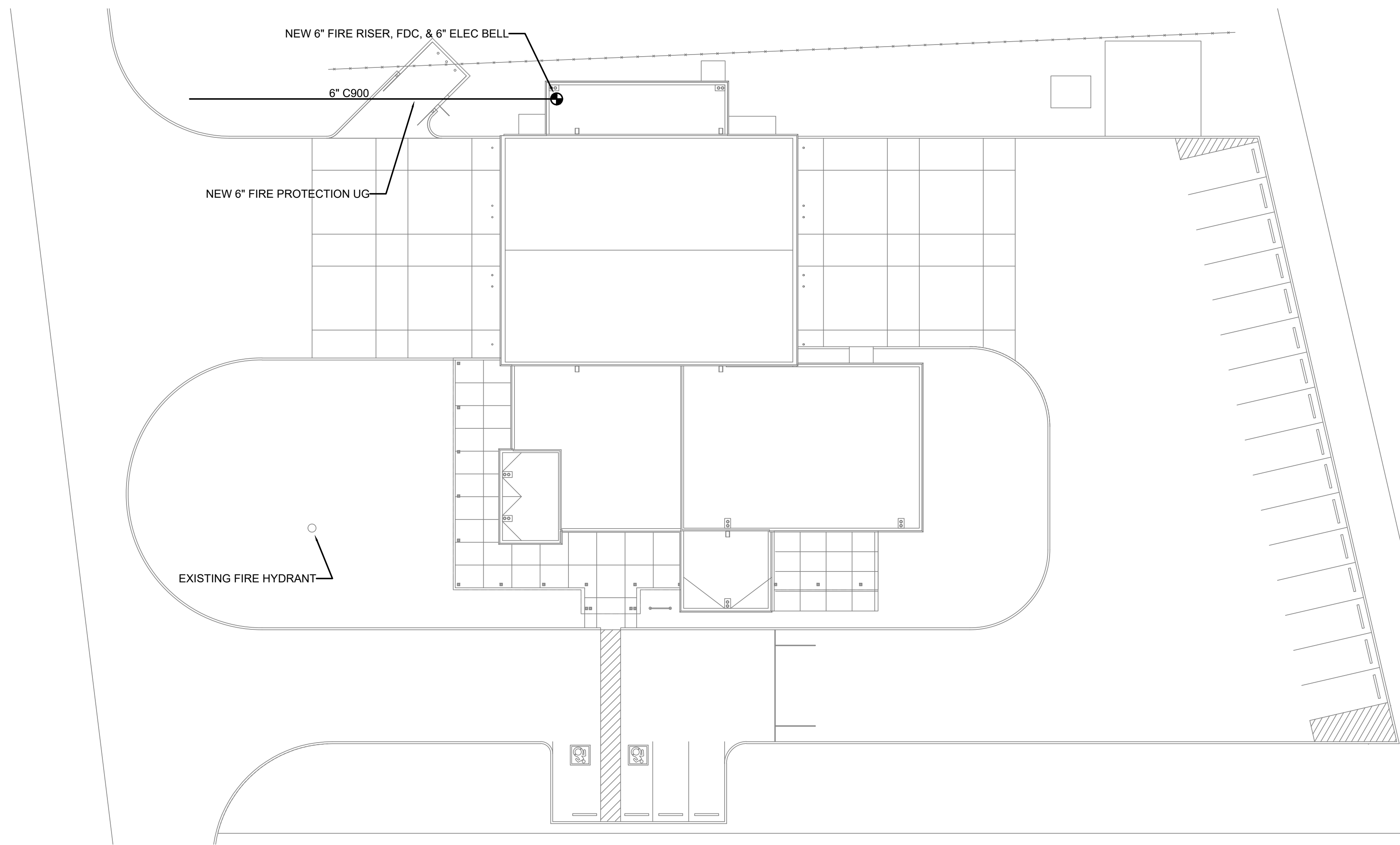
MINIMUM TOTAL WATER FLOW: 565 GPM
MINIMUM WATER SUPPLY DURATION: 90 MINUTES

AUTOMATIC FIRE SPRINKLER MINIMUM PRESSURE ESTIMATE:
NFPA 13: ORDINARY HAZARD (APPARATUS BAY)

K-FACTOR: 8.0
SPRINKLER AREA: 130 SQ.FT
DENSITY: 0.15 GPM/SQ.FT

END HEAD PRESSURE: 7 PSI
ELEVATION LOSS: 12 PSI
BACKFLOW PREVENTER: 4 PSI
FRICTION LOSSES: 6 PSI [LARGE DIAMETER PIPING IS REQUIRED]
MARGIN OF SAFETY: 5 PSI (OR 10%, WHICHEVER IS GREATER)

REQUIRED PRESSURE AT SOURCE: 34 PSI @ 565 GPM



Fire Protection Site Plan

SCALE: 1" = 20'-0" 0 20' 60'



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Tucson, Arizona 85711
Designers Mech: MQ Plumb: KGW
520/327-7611
520/327-0432
Project #: 24-215

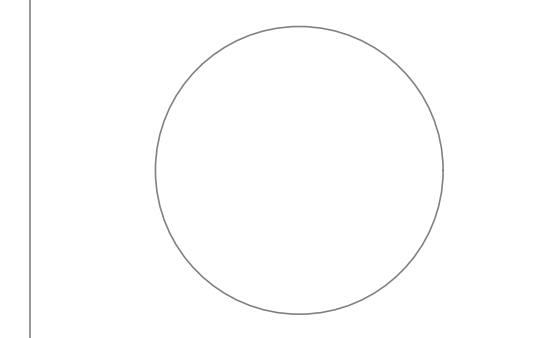


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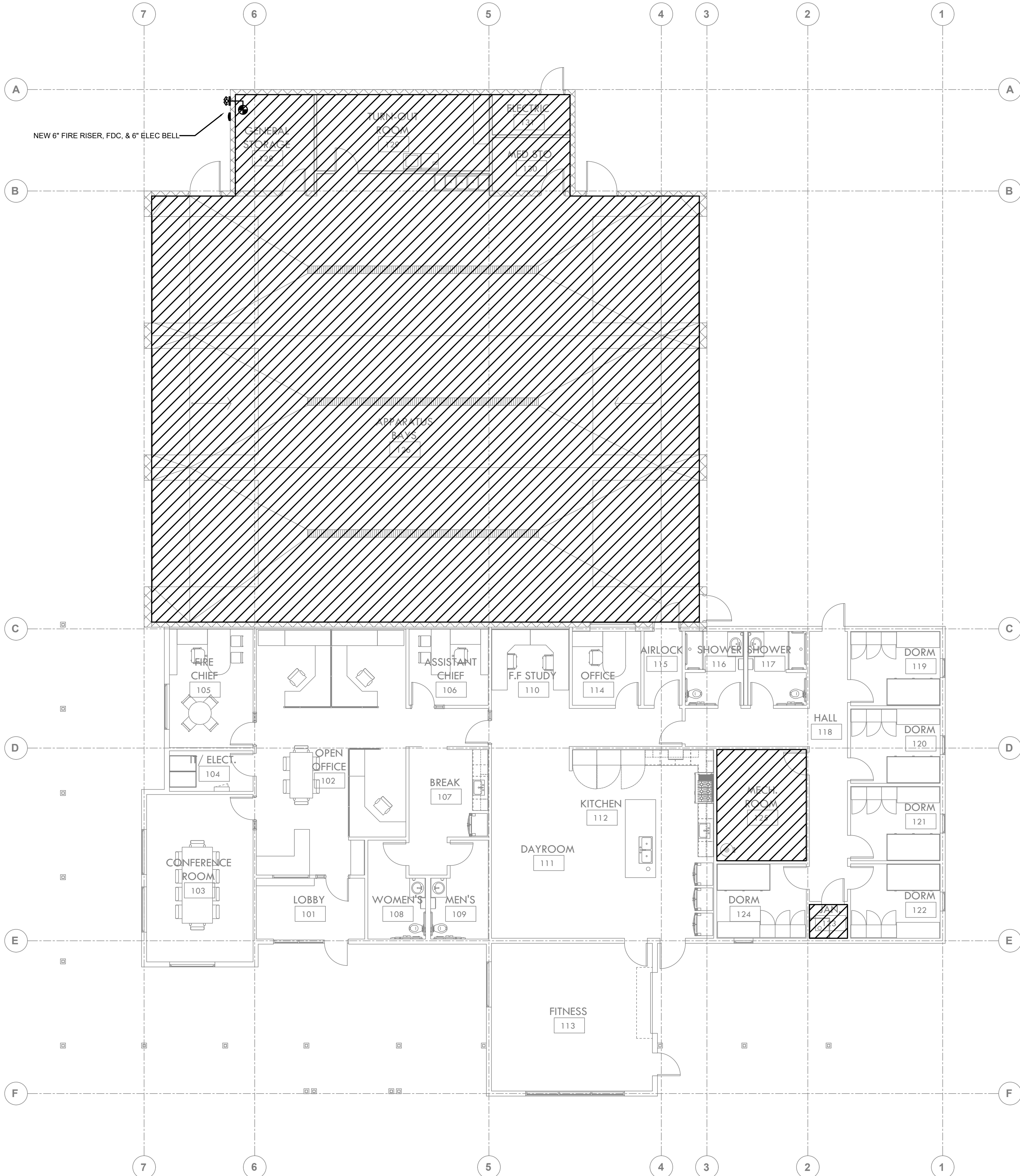
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PROJECT NO:	23.21.00		
DATE:	JULY 31, 2024		
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PLAN NOTES:
 A. FLOW TEST RESULTS (DATED: 6/27/2024)
 STATIC PRESSURE: 46 PSI
 RESIDUAL PRESSURE: 33 PSI
 FLOW: 604 GPM

FIRE SPRINKLER GENERAL NOTES

- A. ALL WORK SHALL COMPLY WITH NFPA 13 (2016), NFPA 1142 (2017), AND ALL OTHER REFERENCED STANDARDS PER THE PLANS, SPECIFICATIONS, AND OWNER AND AHJ REQUIREMENTS. AND SHALL BE INSTALLED IN ACCORDANCE WITH ALL CODES, LAWS, RULES, AND REGULATIONS OF ALL NATIONAL, STATE, COUNTY, AND LOCAL AUTHORITIES HAVING JURISDICTION (AHJ) OVER THE PREMISES. IN CASE OF A CONFLICT BETWEEN THESE PLANS AND ANY REQUIREMENTS OF THE AFOREMENTIONED CODES AND AUTHORITIES, THE MOST STRINGENT SHALL APPLY.
- B. SUBMIT SHOP DRAWINGS FOR REVIEW AND APPROVAL BY THE OWNER CONCURRENT TO SUBMISSION TO THE AHJ. ALL APPROVALS SHALL BE OBTAINED PRIOR TO INSTALLATION.
- C. SECURE AND PAY FOR ALL PERMITS, INSPECTIONS, AND CERTIFICATES REQUIRED BY THE FOREGOING AUTHORITIES. INSPECTIONS SHALL BE CONDUCTED IN THE PRESENCE OF THE AHJ. SUBMIT SIGNED OVERHEAD AND UNDERGROUND TEST CERTIFICATES AS EVIDENCE OF SATISFACTORY TESTS.
- D. NO PIPE SHALL BE CONNECTED TO THE ABOVEGROUND LINE UNTIL AN UNDERGROUND FLUSH HAS BEEN COMPLETED, INCLUDING LEAD-IN PIPING, AS REQUIRED BY NFPA 13 AND NFPA 20 AS EVIDENCED BY A SIGNED UNDERGROUND TEST CERTIFICATE.
- E. THE FIRE DEPARTMENT CONNECTION (FDC) SHALL CONSIST OF NO FEWER THAN TWO 2 1/2" INLETS AND SHALL BE INSTALLED WITHIN 150' OF A FIRE HYDRANT OR PER LOCAL AHJ REQUIREMENTS.
- F. COORDINATE ALL SPRINKLER HEAD AND PIPING LOCATIONS WITH STRUCTURE, CEILINGS, MECHANICAL DUCTWORK & PIPING, ELECTRICAL & LIGHTING, AND WORK OF OTHER TRADES. ADDITIONAL OFFSETS REQUIRED FOR COORDINATION PURPOSES SHALL BE INCLUDED AT NO ADDITIONAL COST TO THE OWNER.
- G. ALL SPRINKLER SYSTEM COMPONENTS SHALL BE UL LISTED OR FM APPROVED FOR FIRE PROTECTION USE.
- H. VERIFY ALL EXISTING CONDITIONS BEFORE BIDDING AND INCLUDE ALL REQUIRED ITEMS FOR A COMPLETE AND OPERABLE CODE COMPLIANT SYSTEM READY FOR OWNER USE, WHETHER INDICATED ON THE DRAWINGS OR NOT. OFFSETS MAY BE REQUIRED FOR COORDINATION WITH OTHER TRADES OR UNFORSEEN FIELD CONDITIONS AND SHALL BE ACCOUNTED FOR IN CONTRACTOR'S BID.
- I. PIPING AND VALVE CONFIGURATIONS INDICATED ARE SCHEMATIC IN NATURE AND ARE TO BE USED FOR REFERENCE ONLY. ACTUAL CONFIGURATION TO BE DETERMINED BY THE CONTRACTOR TO MEET THE REFERENCED STANDARDS AND AHJ REQUIREMENTS AS REFLECTED ON THE CONTRACTOR'S SHOP DRAWINGS.
- J. ALL SPRINKLER SYSTEM DRAINS AND INSPECTOR'S TESTS SHALL BE PIPED TO THE BUILDING EXTERIOR. COORDINATE WITH ARCHITECT FOR ACCEPTABLE LOCATIONS FOR EXTERIOR DRAIN PENETRATIONS.
- K. ALL SPRINKLERS TO BE QUICK RESPONSE TO QUALIFY FOR A REDUCTION IN WATERS SUPPLY FOR MANUAL FIRE FIGHTING AS ALLOWED BY NFPA 1142 A4.4.

FIRE PROTECTION SYSTEM HAZARDS AND CRITERIA

1. PROVIDE HYDRAULICALLY CALCULATED DESIGN FOR FIRE SPRINKLER SYSTEM TO FULLY COVER THE ENTIRE BUILDING. THE SYSTEM SHALL BE DESIGNED FOR THE HAZARD CLASSIFICATIONS NOTED BELOW, PER NFPA 13, NFPA 20, NFPA 1142 AND ANY OTHER REQUIREMENTS DESCRIBED HEREIN. ALSO REFER TO (AND COMPLY WITH) ALL REQUIREMENTS OF THE AUTHORITY HAVING JURISDICTION.
 - A. OFFICES, CONFERENCE ROOMS, RESTROOMS, DORMS, AND SIMILAR AREAS: LIGHT HAZARD, 0.1/1500 [GPM/SQ.FT] WITH 100 GPM HOSE STREAM.
 - B. STORAGE CLOSETS, MECH ROOM, APPARATUS BAY, AND SIMILAR AREAS: ORDINARY HAZARD GROUP 1, 0.15/1500 [GPM/SQ.FT] WITH 250 GPM HOSE STREAM.
2. WATER SUPPLY: PROVIDED BY EPCORE (REFER TO FLOW TEST RESULTS IN THE PLAN NOTES ON THIS SHEET)
3. AUTHORITIES HAVING JURISDICTION:
 - A. SANTA CRUZ BUILDING DEPARTMENT
 - B. TUBAC FIRE DEPARTMENT

SCOPE OF WORK

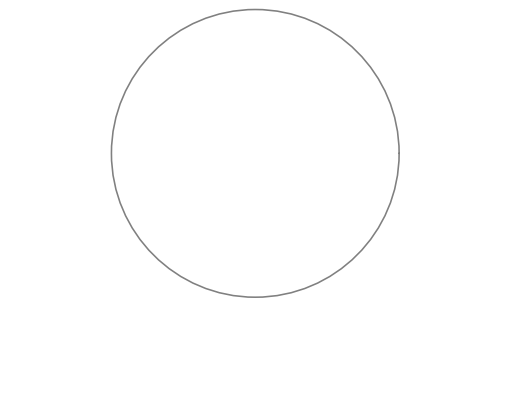
1. INSTALL ONE NEW WET SPRINKLER SYSTEM COMPLYING WITH ALL SPECIFIED DESIGN DOCUMENTS FOR THE NEW TUBAC FIRE STATION #1.
2. PROVIDE A MINIMUM 6" RISER & MAIN. OVERSIZED PIPING [MAINS AND/OR BRANCHLINES] MAY BE REQUIRED TO ACCOMMODATE THE AVAILABLE WATER SUPPLY. ALL PIPE SIZES TO BE DETERMINED BY HYDRAULIC CALCULATIONS.
3. PROVIDE AND INSTALL ONE NEW FIRE PUMP IN THE REMOTE PUMP HOUSE COMPLYING WILL ALL SPECIFIED DESIGN DOCUMENTS.
4. SYSTEM TYPE: WET PIPE, HYDRAULICALLY CALCULATED DESIGN, REFER TO FIRE PROTECTION NOTES ON THIS PAGE FOR HAZARD CLASSIFICATION AND DESIGN REQUIREMENTS.

Breckenridge
 Architects
 Planners

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Tubac Fire Station #1
 2227 I-19 Frontage Rd., Tubac, AZ 85646

Preliminary
 Plans



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 DATE: JULY 31, 2024

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Fire Protection
 Water Supply

FP-2



Fire Protection Plan

KC MECHANICAL
 ENGINEERING, L.L.C.

5447 East Fifth Street # 112
 Tucson, Arizona 85711
 Designers Mech: MQ Plumb: KGW

520/327-7611
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 Project #: 24-215

PLOT DATE

ABBREVIATIONS

A	AMPERES
ADA	AMERICANS WITH DISABILITIES ACT (1990)
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AIC	AMPERES INTERRUPTING CAPACITY
AMP	AMPACITY
AC	ALTERNATING CURRENT
AWG	AMERICAN WIRE GAUGE
#/C	NUMBER OF CONDUCTORS
C	CONDUIT
EWC	ELECTRIC WATER COOLER
EMC	ELECTRICAL METALLIC TUBING
(E)	EXISTING
FU	FUSE
FMC	FLEXIBLE METAL CONDUIT
GFI	GROUND FAULT INTERRUPTER
GFCI	GROUND FAULT CIRCUIT INTERRUPTER
G.GND	GROUND
HP	HORSEPOWER
KW	KILOWATTS
KVA	KILOVOLT AMPERES
LFMC	LIQUID TIGHT FLEXIBLE METAL CONDUIT
MCB	MAIN CIRCUIT BREAKER
MCP	MOTOR CIRCUIT PROTECTOR
MLO	MAIN LUGS ONLY
M	MOTOR
MCC	MOTOR CONTROL CENTER
MFG	MANUFACTURER
NEC	NATIONAL ELECTRICAL CODE
NEMA	NATIONAL MANUFACTURERS ASSOCIATION
N, NEU	NEUTRAL
(N)	NEW
PH	PHASE
PR	PAIR
PVC	POLYVINYL CHLORIDE
REM	REMARK
RGS	RIGID GALVANIZED STEEL
SDBC	STRANDED BARE COPPER
SHLD, SH	SHIELDED
SN	SOLID NEUTRAL
SP	SPARE
TYP	TYPICAL
UL	UNDERWRITERS LABORATORIES
UPS	UNINTERRUPTABLE POWER SOURCE
UON	UNLESS OTHERWISE NOTED
V	VOLTS
W	WATTS
WP	WEATHERPROOF
XFMR	TRANSFORMER

SYMBOLS

LIGHT FIXTURES

	WALL MOUNTED LUMINAIRE
	RECESSED OR SURFACE MOUNTED LUMINAIRE
	LINEAR SUSPENDED LUMINAIRE
	RECESSED 2' x 2' LUMINAIRE
	RECESSED 1' x 4' LUMINAIRE
	RECESSED 2' x 4' LUMINAIRE
	SURFACE MOUNTED 2' x 2' LUMINAIRE
	SURFACE MOUNTED 1' x 4' LUMINAIRE
	SURFACE MOUNTED 2' x 4' LUMINAIRE
	SURFACE MOUNTED 1' x 4' LUMINAIRE
	STRIP LIGHT LUMINAIRE, SURFACE OR PENDANT

LIGHT FIXTURES W/ BATTERY BACK UP

	WALL MOUNTED LUMINAIRE
	RECESSED OR SURFACE MOUNTED LUMINAIRE
	LINEAR SUSPENDED LUMINAIRE
	RECESSED 2' x 2' LUMINAIRE
	RECESSED 1' x 4' LUMINAIRE
	RECESSED 2' x 4' LUMINAIRE
	SURFACE MOUNTED 2' x 2' LUMINAIRE
	SURFACE MOUNTED 1' x 4' LUMINAIRE
	SURFACE MOUNTED 2' x 4' LUMINAIRE
	SURFACE MOUNTED 1' x 4' LUMINAIRE
	STRIP LIGHT LUMINAIRE, SURFACE OR PENDANT
	UNIVERSALLY MOUNTED EXIT SIGN WITH ARROWS AND SHADING AS INDICATED
	2-HEAD EMERGENCY BATTERY PACK LIGHT

LIGHT FIXTURE DESIGNATION

	FIXTURE TYPE DESIGNATION
	SWITCH REFERENCE
	CIRCUIT NUMBER

LIGHTING CONTROL

	SINGLE POLE SWITCH, 20 AMPERE OR LOW VOLTAGE TYPE. MAX. HEIGHT = 42" TO CENTER LINE UON.
	THREE WAY SWITCH, 20 AMPERE
	DIMMER SWITCH AS INDICATED ON DRAWINGS
	WALL MOUNTED OCCUPANCY SENSOR SWITCH

CONSTRUCTION PHASE LEGEND

	EXISTING TO BE REMOVED/REPLACED
	EXISTING TO REMAIN
	NEW

POWER DEVICES

	JUNCTION BOX
	DUPLEX RECEPTACLE OUTLET, NEMA 5-20R, MOUNTED 18" AFF
	DUPLEX RECEPTACLE OUTLET, NEMA 5-20R, ABOVE 42" COUNTER
	GROUND FAULT CIRCUIT INTERRUPTER RECEPTACLE 20 AMPERE FEED THROUGH TYPE
	QUADRAPLEX - TWO DUPLEX RECEPTACLE UNDER A TWO GANG RING, MOUNTED 18" AFF
	SPECIAL PURPOSE RECEPTACLE AS NOTED ON PLANS.
	TOGGLE SWITCH TYPE MANUAL MOTOR STARTER
	EXTERNALLY OPERATED NON-FUSED DISCONNECT SWITCH. SIZE AND PHASE AS INDICATED. 3R INDICATES NEMA 3R TYPE ENCLOSURE, NO NUMBER INDICATES NEMA 1 TYPE ENCLOSURE.
	EXTERNALLY OPERATED FUSED DISCONNECT SWITCH. SIZE, POLES, FUSE SIZE & QUANTITY AS INDICATED. 3R INDICATES NEMA 3R TYPE ENCLOSURE, NO NUMBER INDICATES NEMA 1 TYPE ENCLOSURE.
	COMBINATION MOTOR STARTER FUSED DISCONNECT. SIZE, FUSE SIZE, PHASE AND QUANTITY AS INDICATED ON PLANS.
	M = MOTOR OR G = GENERATOR

WIRING SYMBOLS

	HOMERUN TO PANEL. 'LP' INDICATES PANEL DESIGNATION. 1,3,5 INDICATES CIRCUIT BREAKER NUMBER
	NEW CONDUIT
	UNDERGROUND CONDUIT
	FLEXIBLE CONDUIT
	NUMBER OF SLASHES INDICATE NUMBER OF WIRES (WHEN MORE THAN TWO). PROVIDE GROUND WIRE IN ALL CONDUITS (SIZE GROUND PER NEC 250.122, U.O.N.); GROUNDS ARE NOT SHOWN BY SLASHES. SLASHES WHERE SHOWN ARE FOR CONVENIENCE OF THE CONTRACTOR ONLY; PROVIDE NUMBER OF CONDUCTORS AS REQUIRED BY CIRCUIT FUNCTION.
	NEUT. HOT

SPECIAL SYSTEMS DEVICES

	TELEPHONE/DATA SYSTEM OUTLET. FLUSH 4S BOX WITH 2 GANG RING & BLANK COVER AND 3/4" C. STUBBED OUT ABOVE ACCESSIBLE CEILING WITH PLASTIC BUSHING, OR AS NOTED.
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FIRE ALARM SYMBOLS

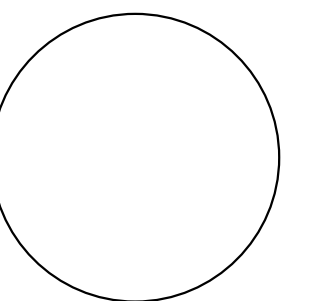
	COMBINATION SMOKE & CO ALARM, BRK SERIES #SMIC0110. PROVIDE INTERCONNECT WIRING BETWEEN SMOKE/CO ALARM AS REQUIRED.
--	---

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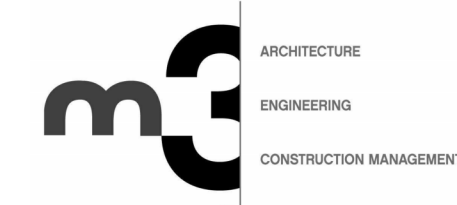
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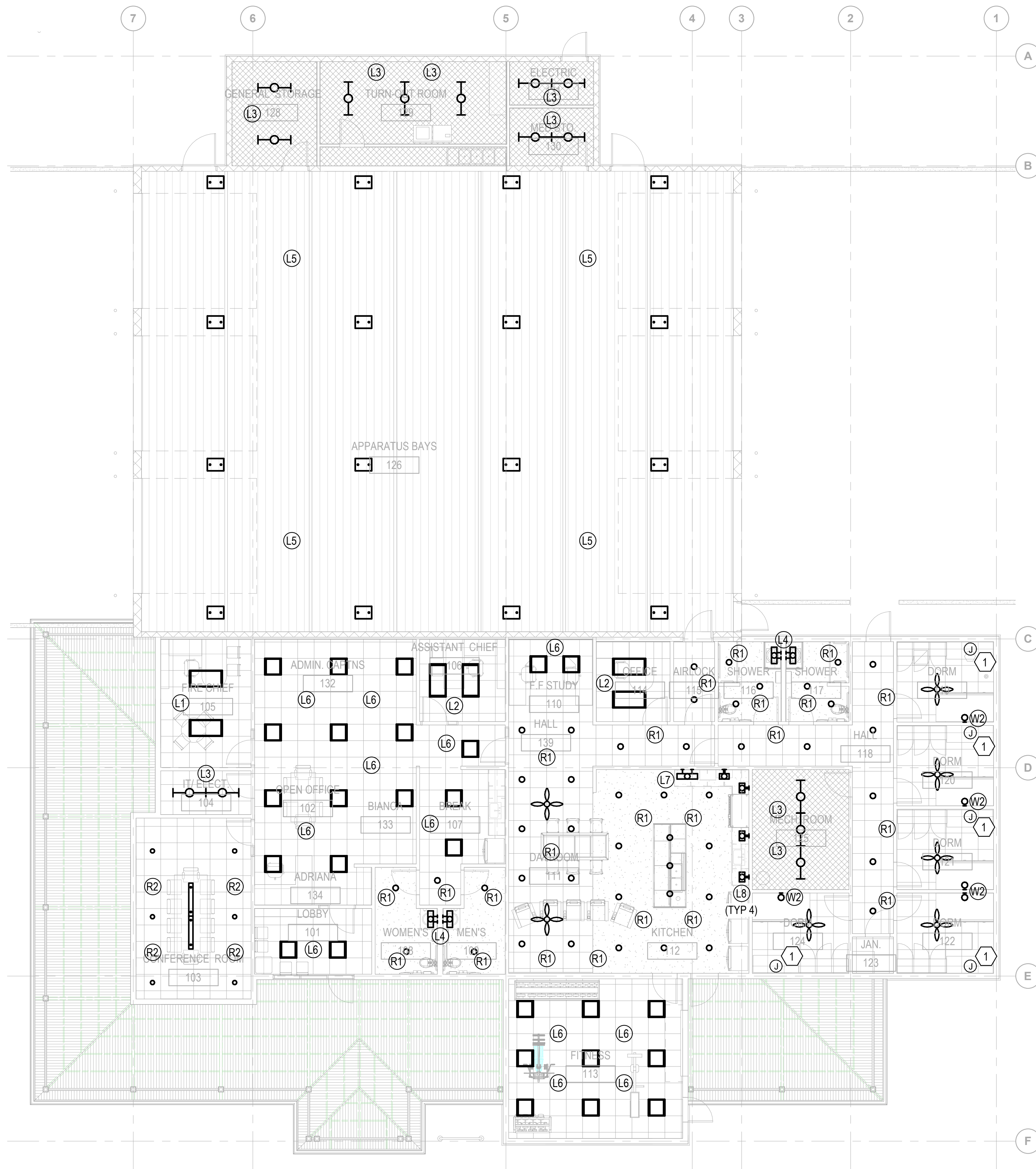
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**SYMBOLS,
ABBREVIATIONS,
& NOTES**
E001



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GENERAL NOTES:

- A. MAINTAIN ALL NEC REQUIRED WORKING CLEARANCES FOR ALL ELECTRIC EQUIPMENT.
- B. ALL WIRING SHALL BE (2) #12 AWG, #12 AWG GND. (U.O.N.).
- C. ALL BRANCH CIRCUITS TO HAVE DEDICATED NEUTRALS. SHARED NEUTRALS NOT ALLOWED (NEC ARTICLE 200.4).
- D. ALL LIGHT FIXTURE(S) SHOWN WITH HALF SHADE (INTEGRAL BATTERY PACK) REQUIRES AN UNSWITCHED CIRCUIT.
- E. LOW-VOLTAGE WIRING BETWEEN LOW-VOLTAGE CONTROL DEVICE & LIGHT FIXTURE(S) ARE NOT SHOWN ON THIS DRAWING. REFER TO CONTROL DIAGRAMS, FOR ADDITIONAL INFORMATION.

KEYNOTES:

- 1 J-BOX FOR POWER CONNECTION OF MODULAR FURNITURE LIGHT FIXTURE. COORDINATE EXACT MOUNTING LOCATION WITH MODULAR PROVIDER PRIOR TO ROUGH-IN.

LIGHTING PLAN

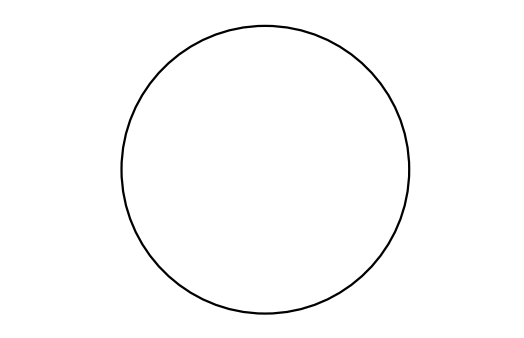
SCALE: 1/8" = 1'-0"

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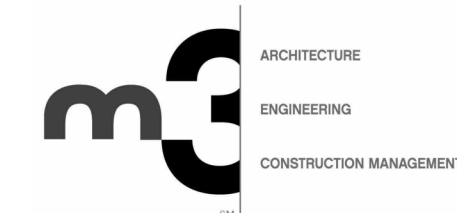
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LIGHTING PLAN

EL101

LIGHT FIXTURE SCHEDULE								
# TYPE	MANUFACTURER/ CATALOG NUMBER	DESCRIPTION	VOLTS	LAMP	MOUNTING	FINISH	MAX VA	REMARKS
L1	LITHONIA 2BLT4-48L-ADP-EZ1-LP840	2' x 4' LED VOLUMETRIC FIXTURE	MVOLT	LED (5169 LUMENS)	GRID	STANDARD	39 VA	
L2	LITHONIA 2BLT4-40L-ADP-EZ1-LP840	2' x 4' LED VOLUMETRIC FIXTURE	MVOLT	LED (4312 LUMENS)	GRID	STANDARD	32 VA	
L3	LITHONIA CLX-L48-3000LM-SEF-FDL-MVOLT-EZ1-40K-80CRI	4' LED INDUSTRIAL STRIP	MVOLT	LED (3000 LUMENS)	SURFACE	STANDARD	23 VA	
L4	LITHONIA FMVTRL-24IN-MVOLT-30K-90CRI-BN	2' VANITY LED FIXTURE	MVOLT	LED (1302 LUMENS)	WALL ABOVE MIRROR	BRUSHED NICKEL	18 VA	
L5	LITHONIA IBE-L24-22000LM-L/LENS-MD-MVOLT-GZ10-40K-80CRI-DWH	LED LINEAR HIGH BAY	120V	LED (22,859 LUMENS)	PENDANT	STANDARD	166 VA	
L6	LITHONIA 2BLT2-40L-ADP-EZ1-LP840	2' x 2' LED VOLUMETRIC FIXTURE	MVOLT	LED (4144 LUMENS)	GRID	STANDARD	32 VA	
L7	LITHONIA UPS30-30K-90CRI-WH	30" UNDERCABINET FIXTURE	120V	LED	UNDER CABINET	WHITE	14 VA	
L8	LITHONIA UPS14-30K-90CRI-WH	14" UNDERCABINET FIXTURE	120V	LED	UNDER CABINET	WHITE	6.5 VA	
R1	LITHONIA LDN6-40/20-L06-AR-LSS-MVOLT-GZ10	6" LED DOWNLIGHT	MVOLT	LED (2006 LUMENS)	RECESSED	CLEAR	23 VA	
R2	LITHONIA LDN4-40/10-L04-AR-LSS-MVOLT-GZ10	4" LED DOWNLIGHT	MVOLT	LED (1045 LUMENS)	RECESSED	CLEAR	13 VA	
W1	LITHONIA LIGHTING DSXW1LED-20C-530-30K-T2M-MVOLT-DDBXD	LED WALL SCONCE	MVOLT	LED (3887 LUMENS)	WALL MOUNT @ 11'-0" AFF	DARK BRONZE	35 VA	PROVIDE IP65 RATED. PROVIDE FULL CUTOFF
W2	VISA LIGHTING CB1800-L35K-L-MVOLT-TOUCHDIM-TW9016	LED WALL READING LIGHT	120V	LED (190 LUMENS)	WALL MOUNT ABOVE BED	WHITE	3 VA	
⊗	LITHONIA LQM-S-G-120/277-ELN-SD	LED EXIT SIGN	MVOLT	LED	WALL/CEILING	WHITE	5 VA	IN CLINIC SIDE, INTEGRAL BATTERY PACKS SHALL BE PROVIDED.

NOTES:

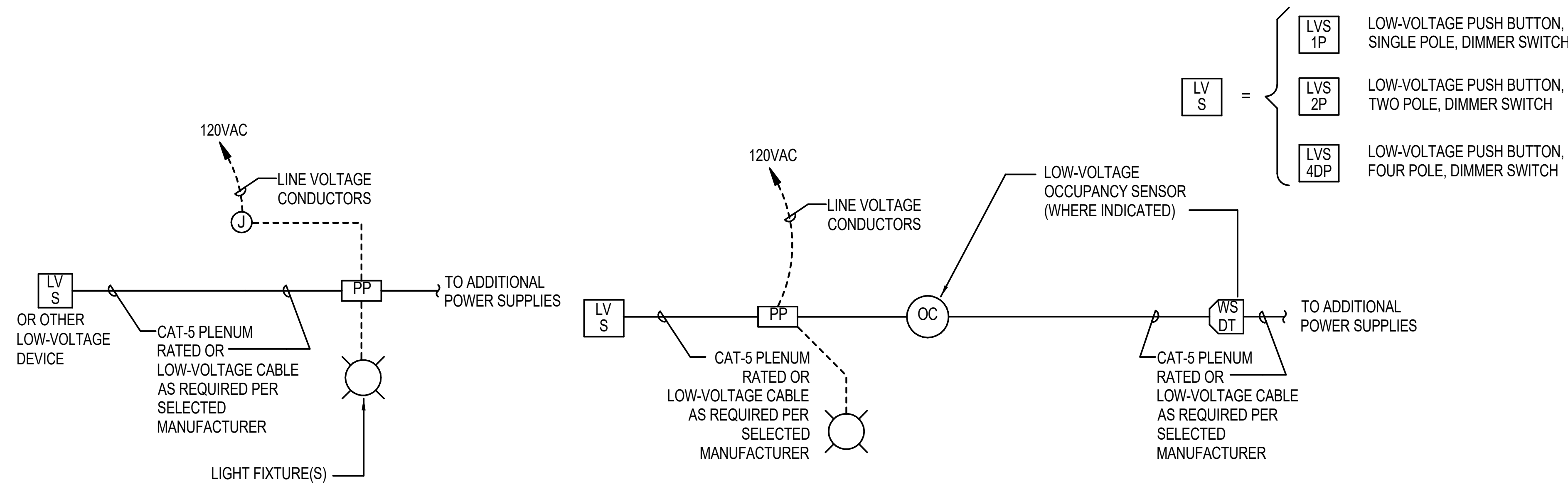
- FIXTURE SCHEDULE INDICATES GENERAL DESCRIPTION OF LIGHTING FIXTURES AND MANUFACTURERS CATALOG NUMBERS. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO DETERMINE THE CORRECT CEILING CONFIGURATION AND PROVIDE THE FIXTURES WITH ALL NECESSARY TRIMS AND MOUNTING HARDWARE SO THAT BOTH THE CEILING SYSTEM AND THE FIXTURE CONSTRUCTION MATCH.
- IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO VERIFY EXACT LOCATIONS OF ALL LIGHTING FIXTURES AND TYPE OF CEILING WITH THE ARCHITECTURAL REFLECTED CEILING PLAN PRIOR TO ANY WORK. REFER TO ARCHITECTURAL ELEVATION DRAWINGS FOR MOUNTING HEIGHTS OF WALL MOUNTED FIXTURES.
- PROVIDE NUMBER OF FIXTURES AS INDICATED ON PLAN. PROVIDE ALL FITTINGS AND ACCESSORIES REQUIRED FOR A COMPLETE SYSTEM.
- PROVIDE INTEGRAL, 1400 LUMEN, 90 MINUTE BATTERY BACK-UP FOR LIGHTING FIXTURES AS INDICATED ON PLANS.

LOW-VOLTAGE SYSTEM SYMBOLS LEGEND

- a,b,c LOW-VOLTAGE 360 DEGREE CEILING MOUNT SENSOR; MICROPHONIC-DUAL TECHNOLOGY, 12 TO 24 VOLT VDC/VAC. DEVICE SHALL CONTROL LIGHTING WITH-IN THE SPACE (U.O.N). "a,b,c" INDICATES LIGHTING ZONE(S) CONTROLLED WITHIN THE SPACE (U.O.N). SENSOR SHALL BE SET TO AUTO 'ON', AUTO 'OFF'.
- LOW-VOLTAGE DUAL TECHNOLOGY WALL SENSOR, RAISE/LOWER DIM CONTROL, 12 TO 24 VOLT VDC/VAC. (SENSOR SHALL BE SET MANUAL 'ON', AUTO 'OFF'). DEVICE SHALL CONTROL LIGHTING WITH-IN THE SPACE (U.O.N).
- LOW-VOLTAGE PASSIVE INFRARED WALL SENSOR, 12 TO 24 VOLT VDC/VAC. (SENSOR SHALL BE SET TO MANUAL 'ON', AUTO 'OFF'). IN RESTROOMS, SENSOR SHALL BE SET TO AUTO 'ON', AUTO 'OFF'. DEVICE SHALL CONTROL LIGHTING WITH-IN THE SPACE (U.O.N).
- LOW VOLTAGE PUSH-BUTTON SWITCH, SINGLE POLE, RAISE/LOWER DIMMING. DEVICE SHALL CONTROL LIGHTING WITH-IN THE SPACE (U.O.N).
- a,b LOW VOLTAGE PUSH-BUTTON SWITCH, TWO POLE, RAISE/LOWER DIMMING. "a,b" INDICATES LIGHTING ZONE CONTROLLED WITHIN THE SPACE (U.O.N).
- a,b,c LOW VOLTAGE PUSH-BUTTON SWITCH, FOUR POLE, RAISE/LOWER DIMMING. "a,b,c." INDICATES LIGHTING ZONES CONTROLLED WITHIN THE SPACE (U.O.N).
- POWER PACK OF ROOM CONTROLLER AS REQUIRED BY SELECTED MANUFACTURER.

SYSTEM NOTES

- COORDINATE WIRING DIAGRAM AND INSTALLATION WITH SUPPLIED LOW-VOLTAGE SENSOR, SWITCH MANUFACTURER PRIOR TO ROUGH-IN.
- PROVIDE ALL NECESSARY MOUNTING ACCESSORIES, POWER PACKS, RELAYS, ETC. FOR A FULLY OPERATIONAL SYSTEM.
- SENSORS, POWER PACKS, AND LOW-VOLTAGE SWITCHES SHOWN ON THIS PLAN SHALL BE USED AS A MINIMUM GUIDELINE FOR BID PURPOSES. ACTUAL SENSOR, LOW-VOLTAGE SWITCHES, AND POWER PACK TYPES, LOCATIONS, QUANTITIES AND MOUNTING HEIGHTS MAY VARY. PROVIDE ADDITIONAL DEVICES ETC. AS REQUIRED BY SENSOR MANUFACTURER WITHOUT ADDITIONAL COST TO THE OWNER. COORDINATE RECOMMENDED MOUNTING LOCATION WITH SENSOR MANUFACTURER PRIOR TO ROUGH-IN.
- CONTRACTOR TO PROVIDE FULLY OPERATIONAL FACTORY SYSTEM DRAWINGS TO ENGINEER FOR REVIEW AND APPROVAL. FACTORY SYSTEM DRAWINGS SHALL INCLUDE, BUT NOT LIMITED TO, SENSOR LEGEND, SENSOR AND POWER PACK MODEL TYPES, SENSOR, POWER PACK, AND LOW-VOLTAGE SWITCH LOCATIONS, MOUNTING HEIGHTS, EACH LUMINAIRE CONTROLLED BY EACH SENSOR, SPECIFICATION CUTSHEET, WIRING DIAGRAMS, ETC. QUANTITY OF POWER PACKS, ROOM CONTROLLERS, ETC SHALL BE DETERMINED BY THE SELECTED MANUFACTURER. (1) ZONE SHALL BE CONSIDERED (1) RELAY.
- CONTRACTOR SHALL PERFORM ALL NECESSARY TESTS AND ADJUSTMENTS (SENSITIVITY SETTINGS, TIME DELAY SETTINGS, ETC.) REQUIRED EACH SENSOR FOR OPTIMUM PERFORMANCE. THESE TESTS AND ADJUSTMENTS ARE TO BE SCHEDULED AND PERFORMED UNDER THE SUPERVISION OF SENSOR MANUFACTURER'S FACTORY FIELD SUPERVISOR AT THE EXPENSE OF THE CONTRACTOR. NO ADDITIONAL FEES WILL BE PAID BY THE OWNER. THE CONTRACTOR SHALL ISSUE A TEST REPORT TO THE OWNER/ARCHITECT INDICATING THAT ALL DEVICES ARE WORKING PROPERLY AND MEET ALL FACTORY STANDARDS.
- ACCEPTABLE MANUFACTURERS:
 - nLIGHT
 - WATTSTOPPER 'DLM'
 - COOPER 'GREEN GATE'



TYPICAL WALL OCCUPANCY SENSOR CONTROL BLOCK DIAGRAM

N.T.S.

1

TYPICAL LOW-VOLTAGE LIGHTING CONTROL BLOCK DIAGRAM

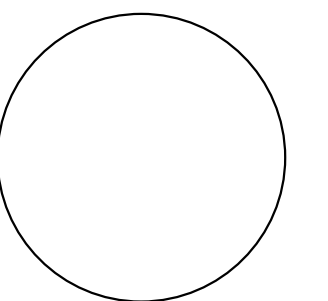
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Tubac Fire Station #1
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Preliminary Plans

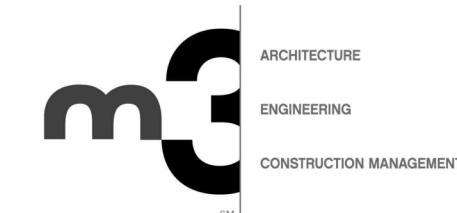


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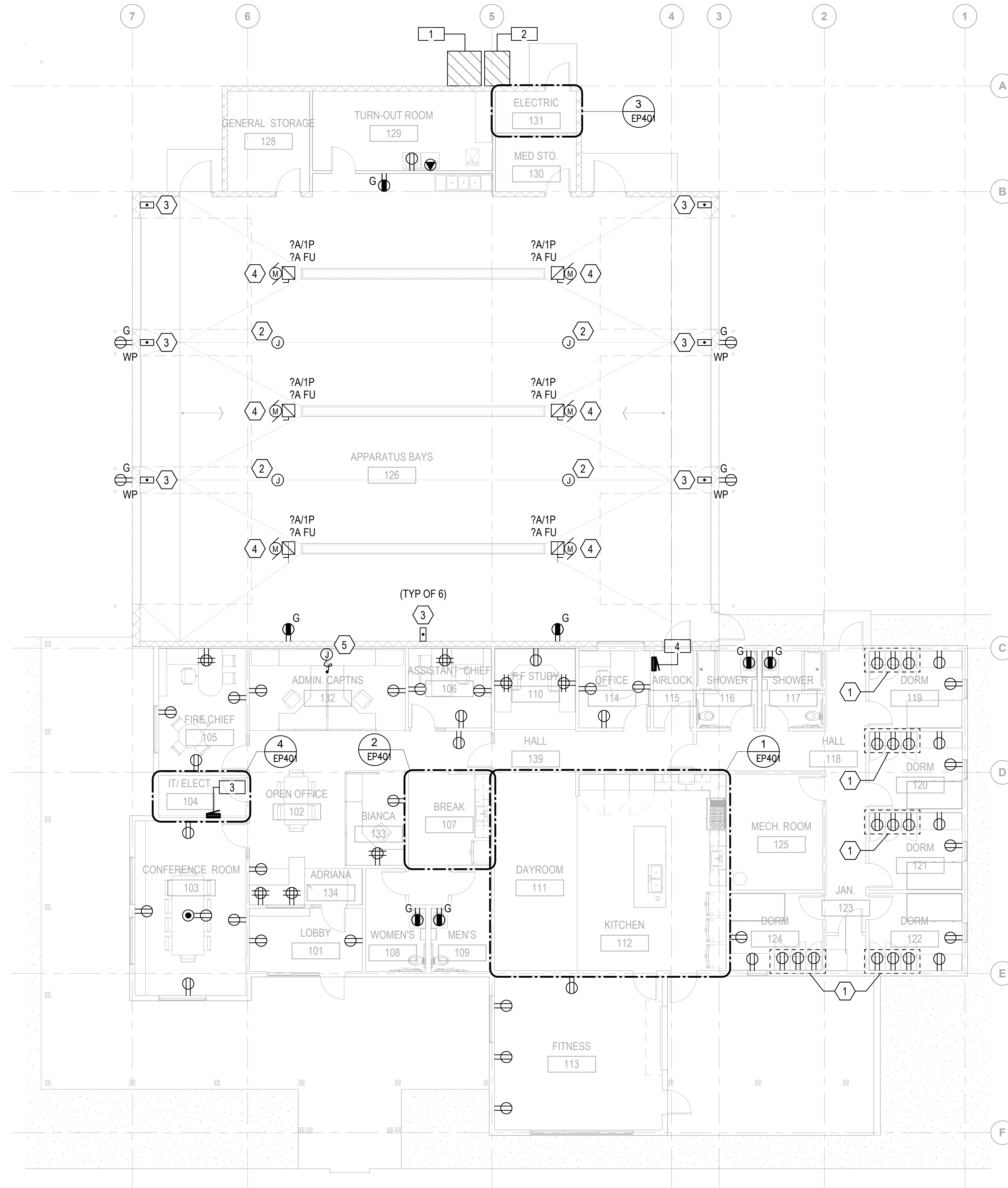
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LIGHT FIXTURE SCHEDULE & CONTROLS
EL701



POWER PLAN

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

1

GENERAL NOTES:

- A. MAINTAIN ALL NEC REQUIRED WORKING CLEARANCES FOR ALL ELECTRIC EQUIPMENT.
- B. ALL WIRING SHALL BE (2) #12 AWG, #12 AWG GND. (U.O.N.).
- C. ALL BRANCH CIRCUITS TO HAVE DEDICATED NEUTRALS. SHARED NEUTRALS NOT ALLOWED (NEC ARTICLE 200.4).
- D. COORDINATE EXACT LOCATION OF DEVICES WITH ARCHITECTURAL ELEVATIONS PRIOR TO ROUGH-IN.
- E. FURNITURE LAYOUT SUBJECT TO CHANGE. COORDINATE FINAL REQUIREMENTS WITH FURNITURE, MILLWORK AND EQUIPMENT PROVIDERS.
- F. ALL RECEPTACLES WITH-IN 72 INCHES OF SINKS SHALL BE GFCI.
- G. ACCESS AND WORKING SPACE OF ALL NEW ELECTRICAL EQUIPMENT SHALL COMPLY WITH ARTICLE 110.26 OF THE NEC. THERE SHALL NOT BE ANY PIPING, DUCTS, LEAK PROTECTION APPARATUS OR OTHER EQUIPMENT FOREIGN TO THE ELECTRICAL INSTALLATION 6'-0" ABOVE THE ELECTRICAL EQUIPMENT PER ARTICLE 110.26(E)(1).

KEYNOTES:

- 1 COORDINATE RECEPT HEIGHT IN LOCKER WITH ARCHITECT PRIOR TO ROUGH-IN.
- 2 J-BOX FOR CONNECTION OF CORD REEL. COORDINATE EXACT MOUNTING LOCATION WITH ARCHITECT PRIOR TO ROUGH-IN.
- 3 DOOR OPENER OPERATOR PROVIDED WITH DOOR OPERATOR. COORDINATE EXACT MOUNTING LOCATION WITH ARCHITECT PRIOR TO ROUGH-IN.
- 4 GARAGE DOOR OPENER WITH INTERNAL STARTER. COORDINATE EXACT MOUNTING LOCATION WITH ARCHITECT PRIOR TO ROUGH-IN.
- 5 WALL MOUNT J-BOX FOR CONNECTION OF SYSTEMS FURNITURE. COORDINATE EXACT MOUNTING LOCATION WITH ARCHITECT PRIOR TO ROUGH-IN.

EQUIPMENT KEYNOTES:

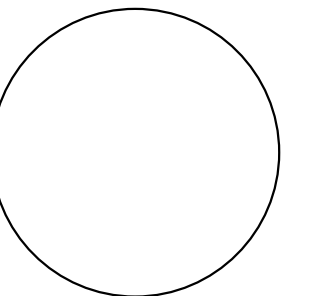
- 1 SERVICE ENTRANCE METER & MCB SECTION 'SES-1'.
- 2 DISTRIBUTION SECTION 'DS-1'.
- 3 PANEL '1T'.
- 4 PANEL 'P3'.

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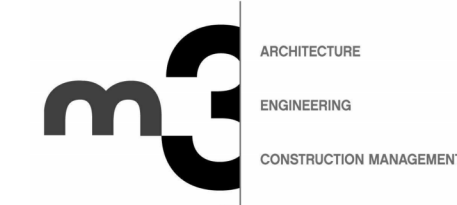
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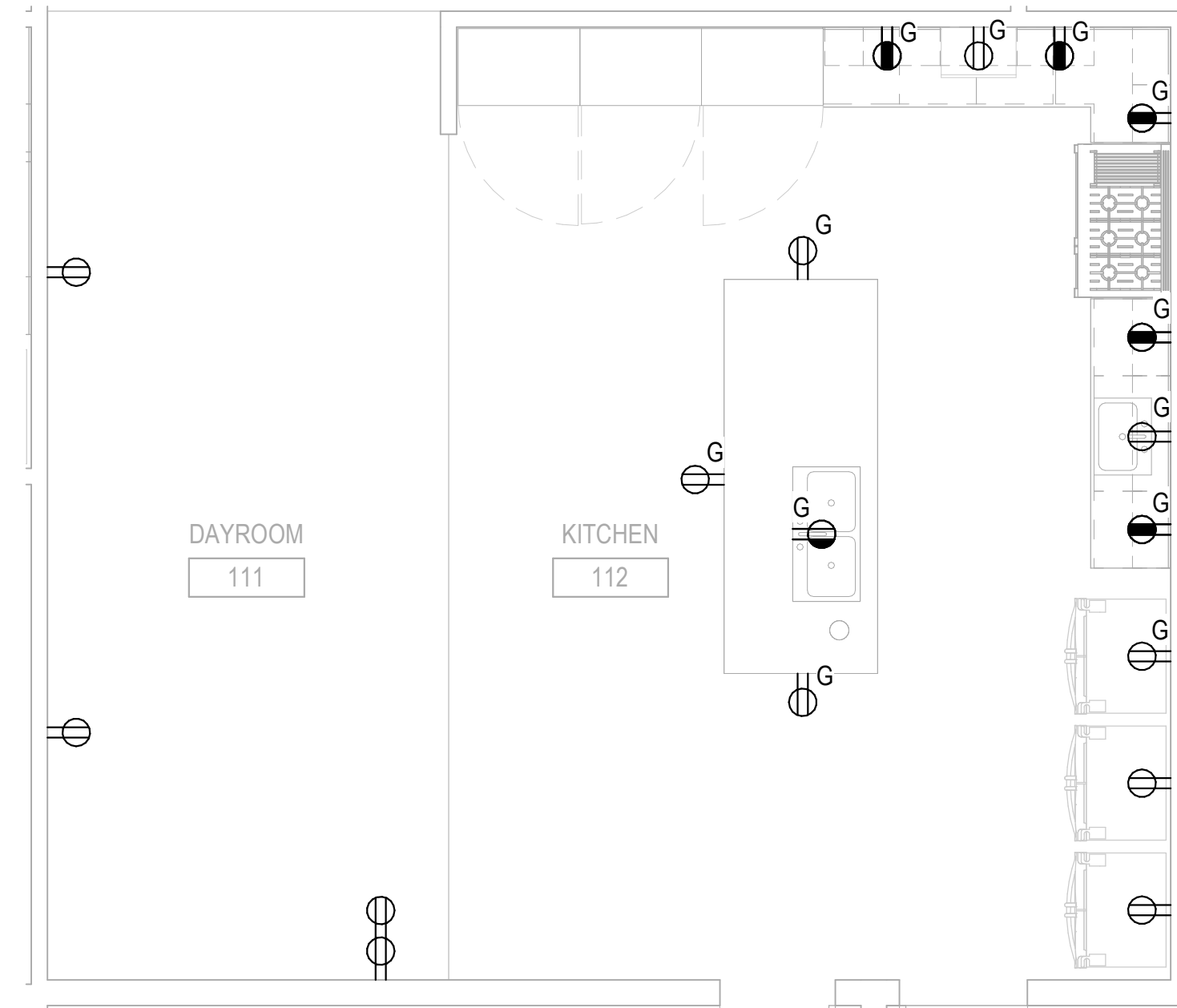
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POWER PLAN

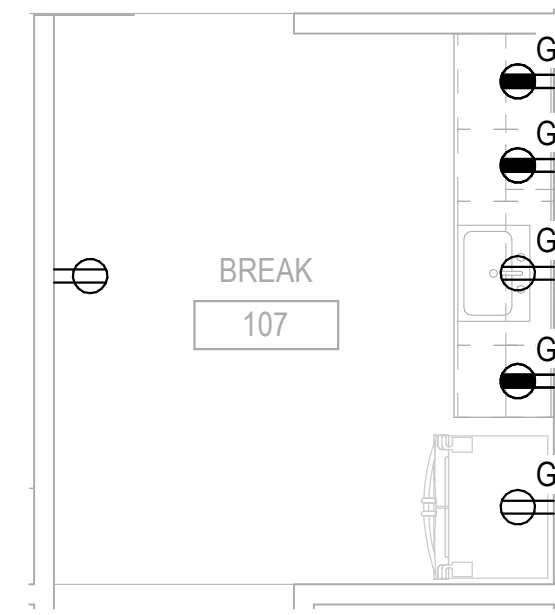
EP101



**ENLARGED KITCHEN
POWER PLAN**

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

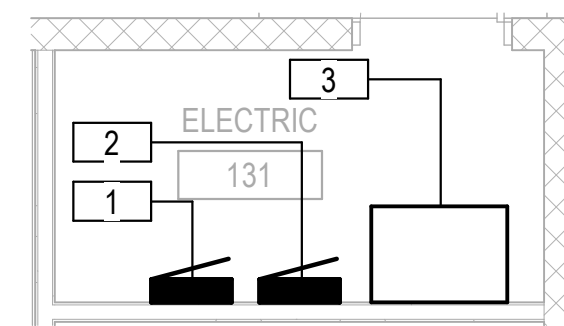
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**ENLARGED BREAK
RM POWER PLAN**

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

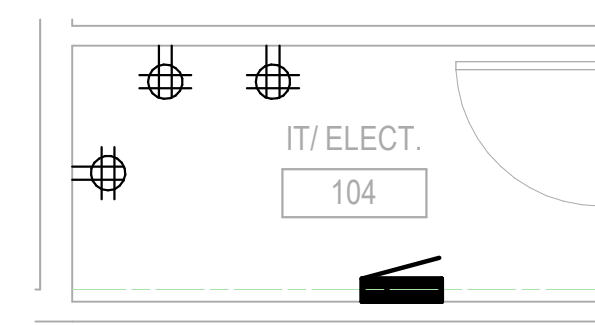
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**ENLARGED ELECTRIC
RM POWER PLAN**

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

3



**ENLARGED IT/ELEC.
RM POWER PLAN**

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

4

GENERAL NOTES:

- A. MAINTAIN ALL NEC REQUIRED WORKING CLEARANCES FOR ALL ELECTRIC EQUIPMENT.
- B. ALL WIRING SHALL BE (2) #12 AWG, #12 AWG GND. (U.O.N.).
- C. ALL BRANCH CIRCUITS TO HAVE DEDICATED NEUTRALS. SHARED NEUTRALS NOT ALLOWED (NEC ARTICLE 200.4).
- D. COORDINATE EXACT LOCATION OF DEVICES WITH ARCHITECTURAL ELEVATIONS PRIOR TO ROUGH-IN.
- E. FURNITURE LAYOUT SUBJECT TO CHANGE. COORDINATE FINAL REQUIREMENTS WITH FURNITURE, MILLWORK AND EQUIPMENT PROVIDERS.
- F. ALL RECEPTACLES WITH-IN 72 INCHES OF SINKS SHALL BE GFCI.
- G. ACCESS AND WORKING SPACE OF ALL NEW ELECTRICAL EQUIPMENT SHALL COMPLY WITH ARTICLE 110.26 OF THE NEC. THERE SHALL NOT BE ANY PIPING, DUCTS, LEAK PROTECTION APPARATUS OR OTHER EQUIPMENT FOREIGN TO THE ELECTRICAL INSTALLATION 6'-0" ABOVE THE ELECTRICAL EQUIPMENT PER ARTICLE 110.26(E)(1).

EQUIPMENT KEYNOTES:

- 1 PANEL 'P1'.
- 2 PANEL 'P2'.
- 3 AUTOMATIC TRANSFER SWITCH 'ATS-OS1'.

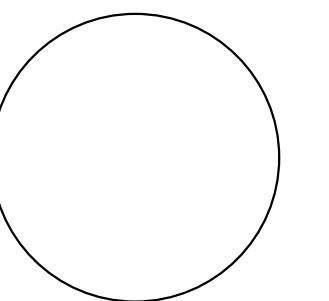


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Preliminary Plans



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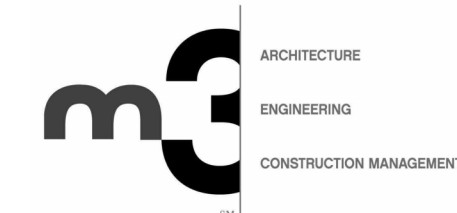
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**ENLARGED
POWER PLANS**

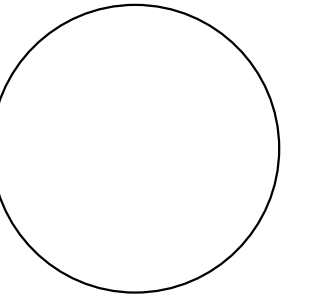
EP401

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JUNE 2024

REVISION SCHEDULE:

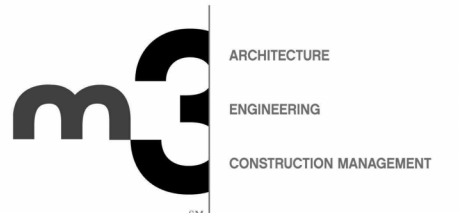
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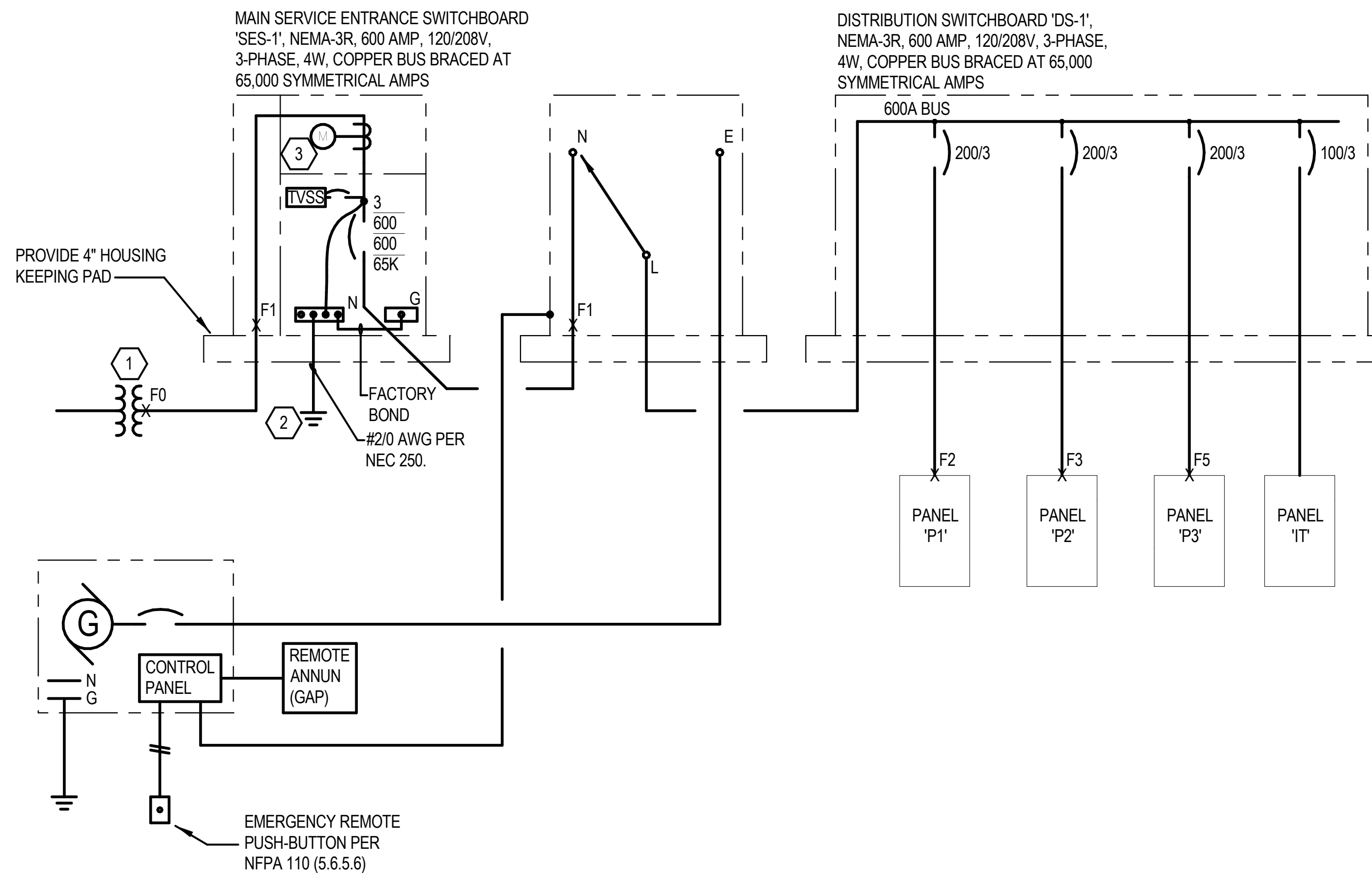
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PANEL
SCHEDULE

EP601



AUTOMATIC TRANSFER SWITCH SCHEDULE							
MARK	AMPERE RATING	NO. OF POLES	AIC RATING	SERVING BRANCH	MANUFACTURER	NOTES	NEMA
'ATS-OS1'	600A	3	35K	OPTIONAL STANDBY	ASCO 7000 DELAYED TRANSITION TRANSFER SERIES OR APPROVED EQUAL		NEMA-1

SINGLE LINE DIAGRAM

N.T.S.

1

NOTE: COORDINATION WITH UNISOURCE IS PENDING, AND IT IS UNKNOWN IF 3-PHASE SERVICE WILL BE OBTAINED.

GENERAL NOTES:

- ALL ELECTRICAL ROOMS SHALL BE IDENTIFIED WITH SIGNAGE THAT READS "ELECTRICAL ROOM". THE SIGN SHALL BE INSTALLED ON A 4"X8" ALUMINUM WITH WHITE REFLECTIVE LETTERS ON RED REFLECTIVE BACKGROUND.
- COORDINATE REQUIREMENTS WITH TEP AND SUBMIT SWITCHBOARD METER AND UNDERGROUND PULL SECTIONS TO TEP METER SHOP FOR APPROVAL.

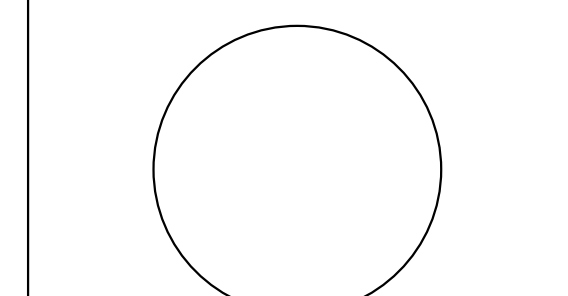
KEYNOTES:

- (N) PAD MOUNT UTILITY TRANSFORMER.
- INSTALL COPPER GROUNDING ELECTRODE CONDUCTOR SIZED AS INDICATED AND BOND TO BUILDING STRUCTURAL STEEL, STEEL GAS PIPING, COLD WATER PIPING AND (2) 3/4" X 10'-0" COPPER CLAD GROUND RODS SEPARATED A MINIMUM OF 6'-0" PER ARTICLE 250 OF THE NEC.
- UTILITY METER PER UNISOURCE REQUIREMENTS.

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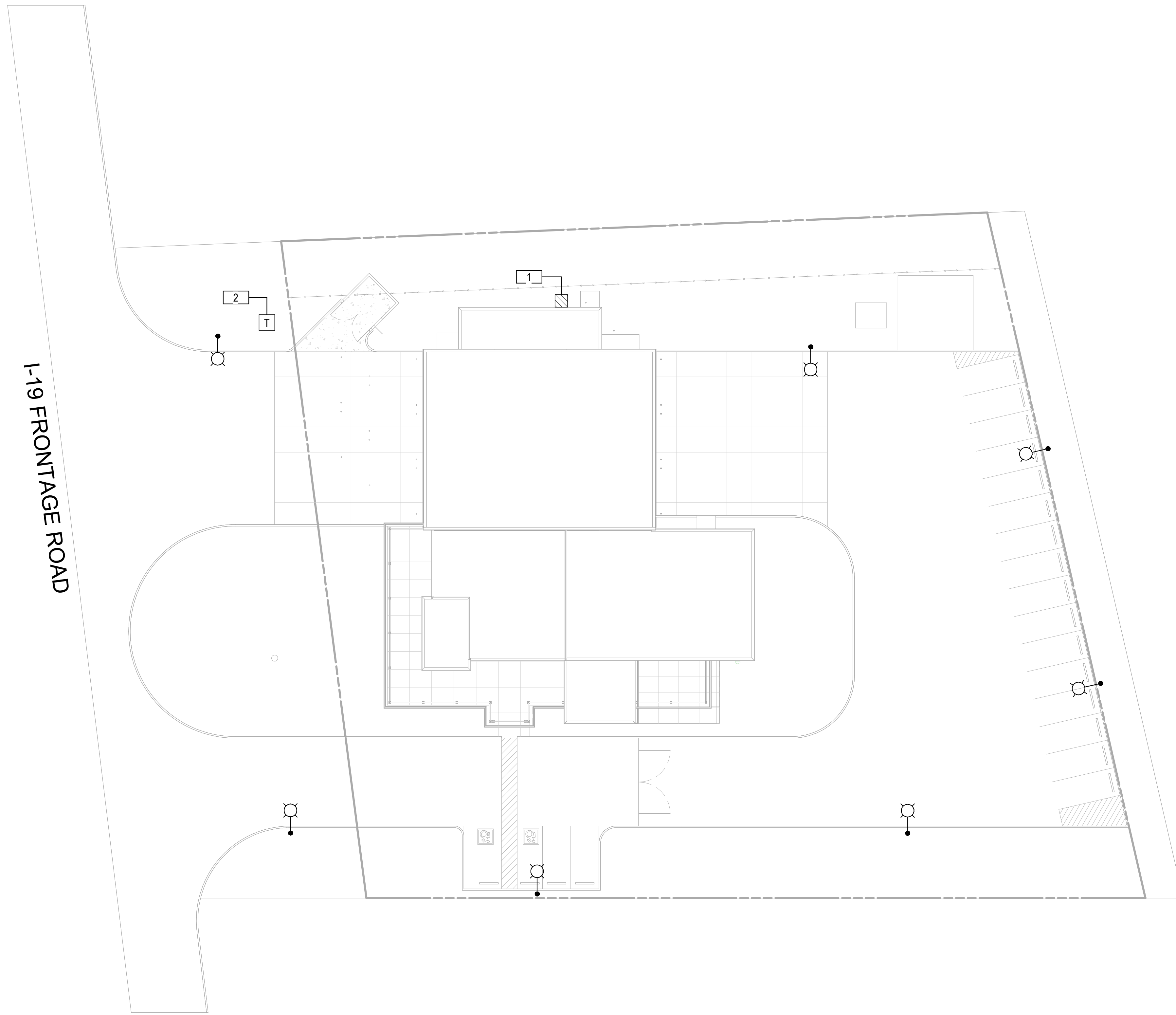
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**SINGLE LINE
DIAGRAM**
EP701



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SITE PLAN

SCALE: 1" = 20'-0"

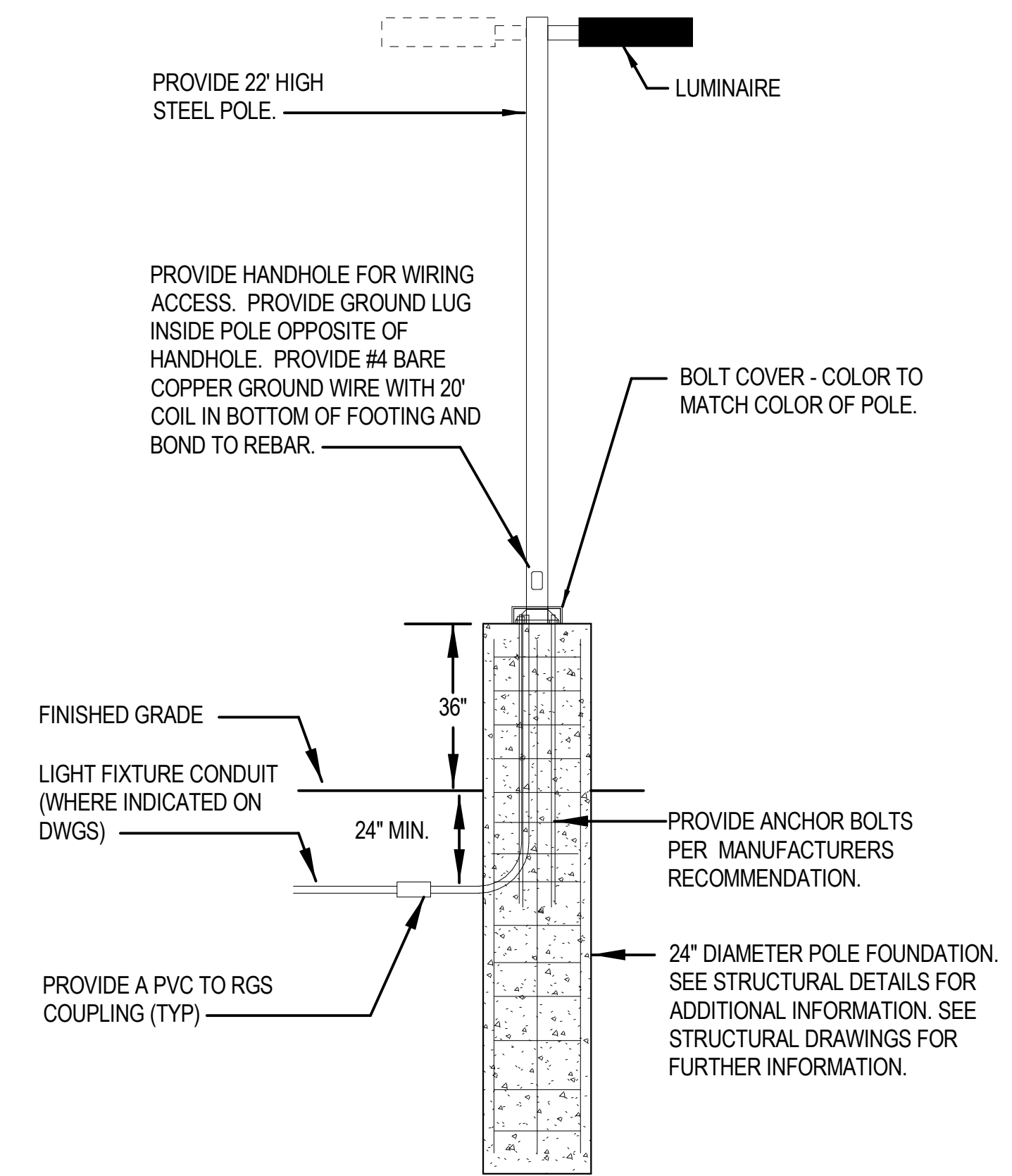
1

GENERAL NOTES:

- A. UTILITY CONDUIT ROUTING IS APPROXIMATE. CONTRACTOR SHALL INSTALL CONDUIT(S) AND TRENCHING PER UTILITY COMPANY REQUIREMENTS (APS & COMMUNICATION UTILITY). REFER TO UTILITY COMPANY DRAWINGS PRIOR TO INSTALLATION. PROVIDE ADDITIONAL PULL BOX(ES), HANDHOLE(S), CONDUIT AND EQUIPMENT AS REQUIRED PER UTILITY COMPANY REQUIREMENTS.
- B. PROVIDE A TRACER WIRE FOR ALL UNDERGROUND SITE CONDUITS PER ARIZONA STATE STATUTE REF. 40-360.22-M.
- C. CONTRACTOR TO BLUE STAKE ALL (E) UTILITIES PRIOR TO INSTALLING ANY (N) UNDERGROUND CONDUITS.

EQUIPMENT KEYNOTES:

- 1 SERVICE ENTRANCE METER & MCB SECTION 'SES-1'.
- 2 (N) PROPOSED LOCATION OF UNISOURCE PAN MOUNT TRANSFORMER. PROVIDE PAD PER UNISOURCE REQUIREMENTS.



LIGHT POLE DETAIL

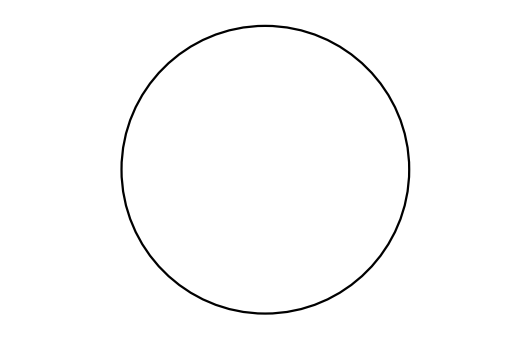
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Preliminary Plans



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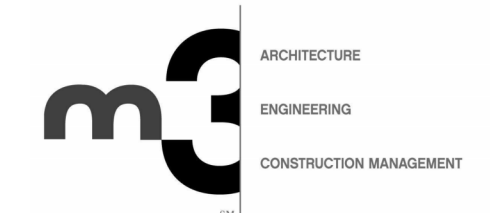
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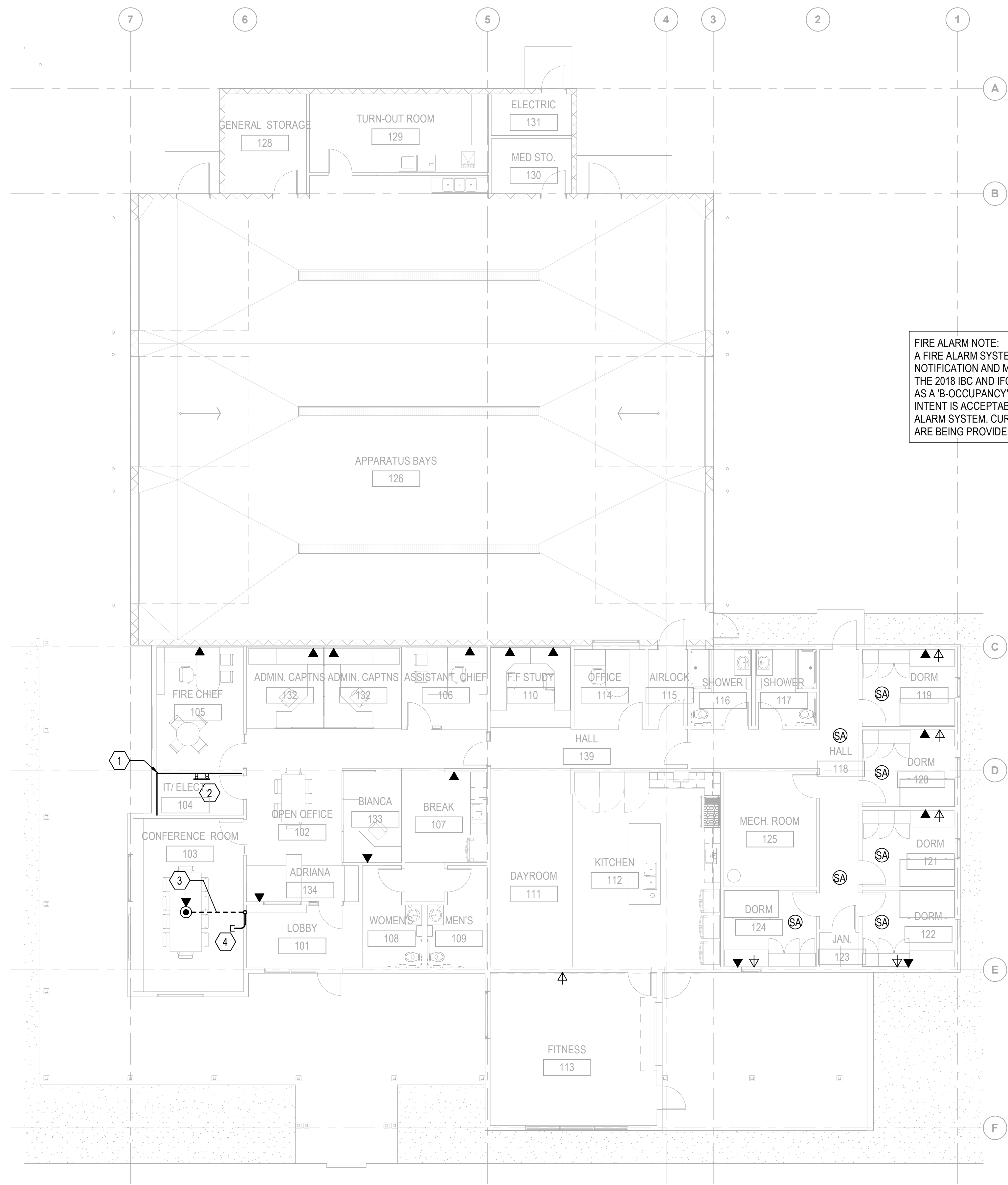
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ELECTRICAL
SITE PLAN
ES101

PLOT: 7/10/2024 1:55:28 PM



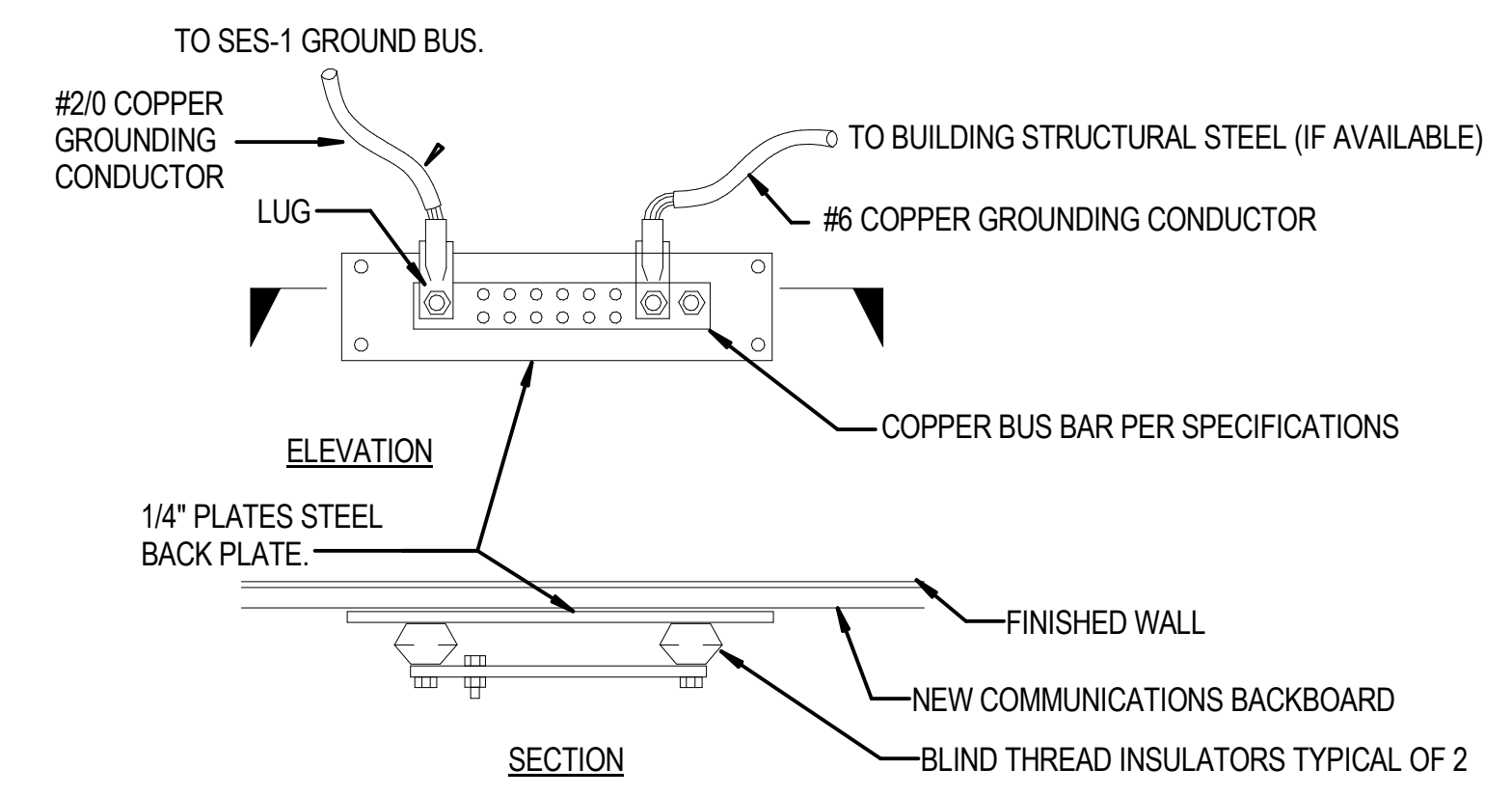
FIRE ALARM NOTE:
 A FIRE ALARM SYSTEM CONSISTING OF AUDIO/VISUAL NOTIFICATION AND MANUAL STATIONS ARE NOT REQUIRED PER THE 2018 IBC AND IFC, DUE TO THE BUILDING BEING CLASSIFIED AS A 'B-OCCUPANCY'. OWNER SHALL LET US KNOW IF THE DESIGN INTENT IS ACCEPTABLE OR IF IT IS DESIRED TO DESIGN A FIRE ALARM SYSTEM. CURRENTLY, 120V SMOKE/CO ALARM DEVICES ARE BEING PROVIDED INSIDE THE DORMS.

GENERAL NOTES:

- A. MAINTAIN ALL NEC REQUIRED WORKING CLEARANCES FOR ALL ELECTRIC EQUIPMENT.
- B. ALL WIRING SHALL BE (2) #12 AWG, #12 AWG GND. (U.O.N.).
- C. ALL BRANCH CIRCUITS TO HAVE DEDICATED NEUTRALS. SHARED NEUTRALS NOT ALLOWED (NEC ARTICLE 200.4).
- D. COORDINATE EXACT LOCATION OF DEVICES WITH ARCHITECTURAL ELEVATIONS PRIOR TO ROUGH-IN.
- E. FURNITURE LAYOUT SUBJECT TO CHANGE. COORDINATE FINAL REQUIREMENTS WITH FURNITURE, MILLWORK AND EQUIPMENT PROVIDERS.
- F. ALL RECEPTACLES WITH-IN 72 INCHES OF SINKS SHALL BE GFCI.
- G. ACCESS AND WORKING SPACE OF ALL NEW ELECTRICAL EQUIPMENT SHALL COMPLY WITH ARTICLE 110.26 OF THE NEC. THERE SHALL NOT BE ANY PIPING, DUCTS, LEAK PROTECTION APPARATUS OR OTHER EQUIPMENT FOREIGN TO THE ELECTRICAL INSTALLATION 6'-0" ABOVE THE ELECTRICAL EQUIPMENT PER ARTICLE 110.26(E)(1).

KEYNOTES:

- 1. 4' H X LENGTH AS REQUIRED X 3/4" D PLYWOOD BACKBOARD PAINTED ON ALL SIDES WITH 120 COATS OF FIRE RETARDANT PAINT.
- 2. GROUND BUS BAR. REFER TO DETAIL #2, THIS SHEET.
- 3. 1-1/4" EC W/ PULLCORD.
- 4. ROUTE CONDUIT OF 6" ABOVE ACCESSIBLE CEILING SPACE.



COMM ROOM GROUND BUS BAR (TMGB)

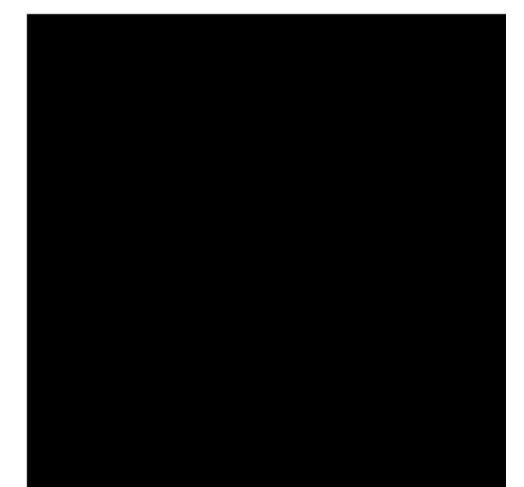
N.T.S.

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SPECIAL SYSTEMS PLAN

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

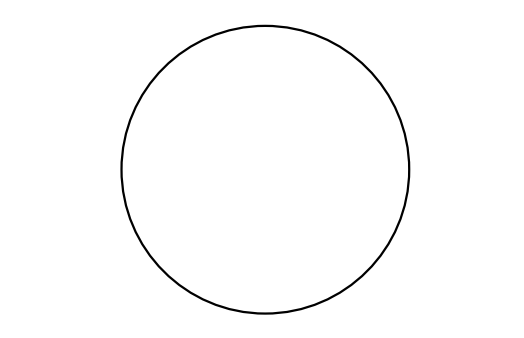
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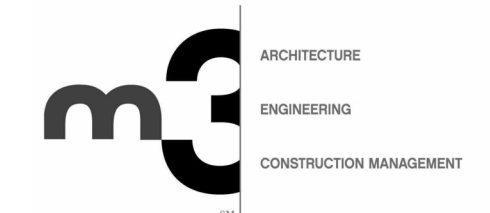
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