



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 July 31, 2024, at 1:30 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. Years of Service Recognition:
 - a. Captain Ricardo Rodriguez 20 years of service
 - b. Fire Chief Ben Guerrero 20 years of service
5. 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."
6. Correspondence
7. Report from Board Members
8. Chief and Staff Report
 - a. Operations Update
 - b. Training
 - c. Administration Update
 - d. Wildland Update
9. Monthly Financial Report for June 2024

10. Consent Agenda
 - a. Approval of minutes from June 26, 2024.
 - b. Approval of monthly financial report for June 2024.
11. Discussion and possible action to approve a revised job description for the Fire Chief position.
12. Discussion and possible action to approve the purchase of 4 sets of firefighting protective equipment in an amount not to exceed \$20,721.48.
13. Fire Station #1 and Tower items:
 - a. USDA Rural Development Grant update
 - b. Station update
 - i. Preliminary Plans
 - ii. Project Timeline
 - c. Tower Update
14. Future Agenda Items
15. Next meeting: August 28, 2024
16. Adjourn meeting.

Notice of Meeting (Agenda) dated and posted July 26, by 1:30 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
July 2024

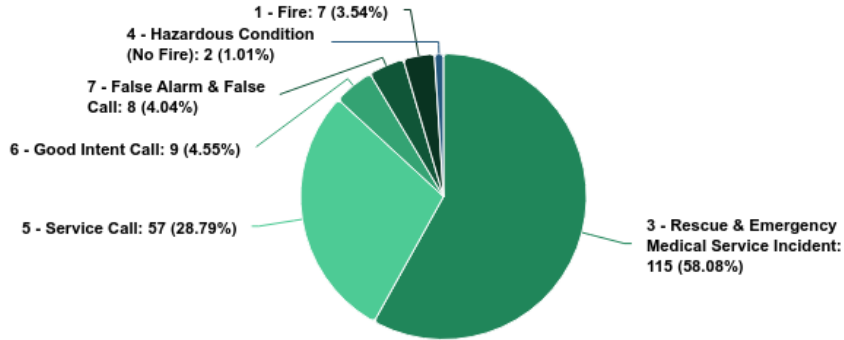
Tubac Fire District is committed to the safety of our community through the delivery of fire suppression, medical services, and public education.

June Emergency Responses



Incident Type Categories

Jun 01, 2024 to Jun 30, 2024



- **EMS** **115 (60 Transports, 3 Transfer of care to Air ambulance)**
- **Fire** **17**
- **Public Assist** **66**
- **Total Calls** **198**

Monthly Call Volume Year over Year

Jan 01, 2023 12:00 AM to Jul 23, 2024 09:18 AM



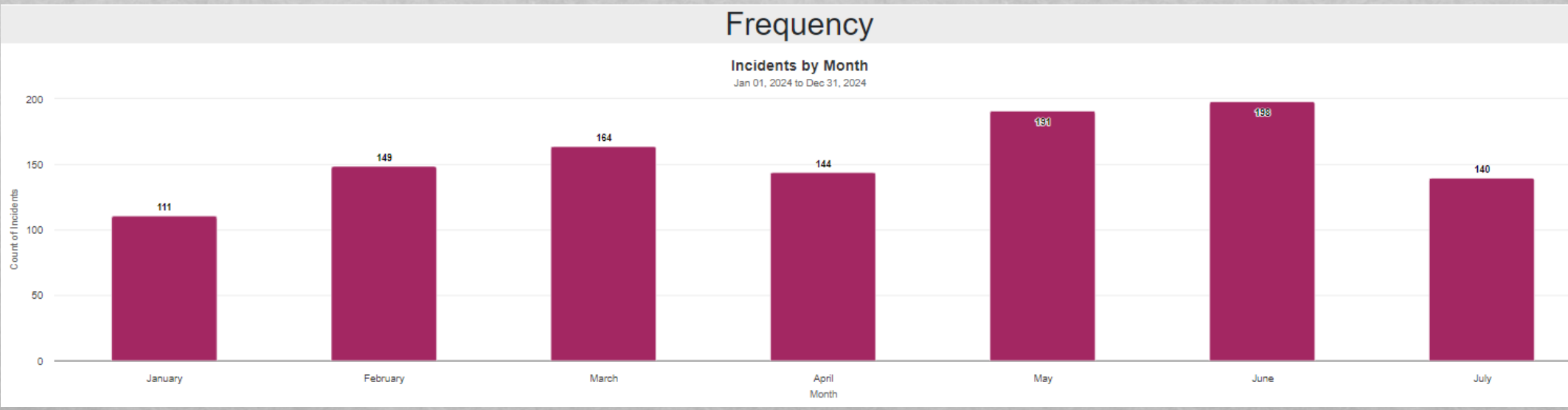
Month Name	2024		2023		YTD % Change
	Grand Total - Current	% of Total Incidents - Current	Grand Total - Previous	% of Total Incidents - Previous	
January	111	10.00 %	110	12.00 %	0.91 %
February	149	14.00 %	128	14.00 %	16.41 %
March	164	15.00 %	125	13.00 %	31.20 %
April	144	13.00 %	145	16.00 %	-0.69 %
May	191	17.00 %	142	15.00 %	34.51 %
June	198	18.00 %	157	17.00 %	26.11 %
July	139	13.00 %	125	13.00 %	11.20 %
Grand Total	1,096	100.00 %	932	100.00 %	17.60 %

YTD Call Volume



Frequency

Incidents by Month
Jan 01, 2024 to Dec 31, 2024

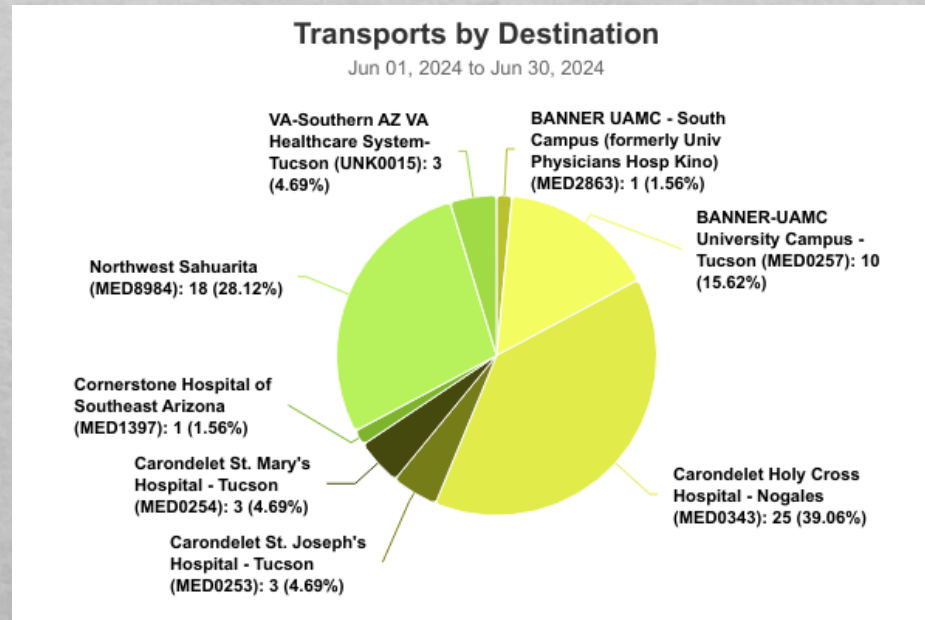


Monthly Call Volume Year over Year

Jan 01, 2023 12:00 AM to Jul 23, 2024 01:21 PM

Month Name	2024		2023		YTD % Change
	Grand Total - Current	% of Total Incidents - Current	Grand Total - Previous	% of Total Incidents - Previous	
January	111	10.00 %	110	12.00 %	0.91 %
February	149	14.00 %	128	14.00 %	16.41 %
March	164	15.00 %	125	13.00 %	31.20 %
April	144	13.00 %	145	16.00 %	-0.69 %
May	191	17.00 %	142	15.00 %	34.51 %
June	198	18.00 %	157	17.00 %	26.11 %
July	140	13.00 %	125	13.00 %	12.00 %
Grand Total	1,097	100.00 %	932	100.00 %	17.70 %

June Ambulance Transports by Destination



Transports by Destination Summary

Jun 01, 2024 to Jun 30, 2024

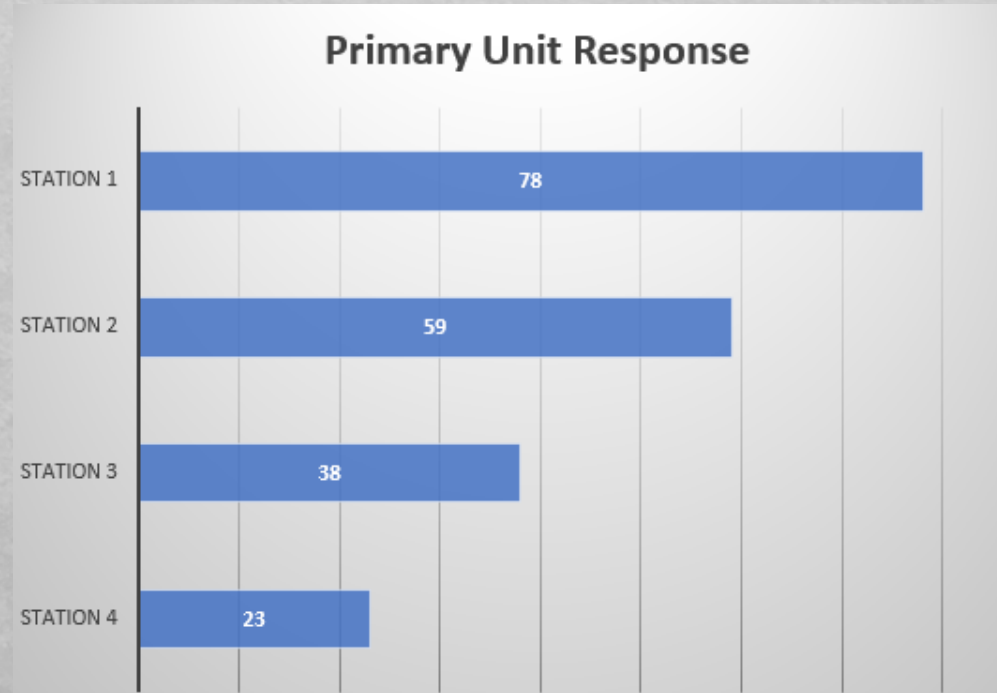
Hospital		Transports		Transport Time		Patient Arrival to Transfer of Care		Patient Arrival to Transfer of Care Signature		Patient Arrival to Unit Back in Service	
Name	ID	Total	% of Total	Median	90th Percentile	Median	90th Percentile	Median	90th Percentile	Median	90th Percentile
BANNER UAMC - South Campus (formerly Univ Physicians Hosp Kino)	MED2863	1	1.56 %	74:56	74:56	17:58	17:58	18:38	18:38	78:27	78:27
BANNER-UAMC University Campus - Tucson	MED0257	10	15.63 %	58:59	67:06	16:43	32:52	17:57	34:29	73:20	124:09
Carondelet Holy Cross Hospital - Nogales	MED0343	25	39.06 %	19:12	22:26	07:25	26:01	11:19	24:17	32:56	50:20
Carondelet St. Joseph's Hospital - Tucson	MED0253	3	4.69 %	69:39	70:43	24:08	36:01	09:03	17:03	22:55	40:01
Carondelet St. Mary's Hospital - Tucson	MED0254	3	4.69 %	42:43	51:38	10:04	16:12	09:32	15:43	65:40	88:09
Cornerstone Hospital of Southeast Arizona	MED1397	1	1.56 %	80:00	80:00	(blank)	(blank)	07:59	07:59	20:16	20:16
Northwest Sahuarita	MED8984	18	28.13 %	31:41	48:46	09:01	35:33	09:36	20:09	49:55	62:42
VA-Southern AZ VA Healthcare System-Tucson	UNK0015	3	4.69 %	37:45	48:48	11:40	15:22	12:03	13:52	47:22	64:09
Overall		64	100.00 %	29:23	63:04	10:01	30:39	10:02	26:52	40:00	76:39

June Emergency Responses By Station



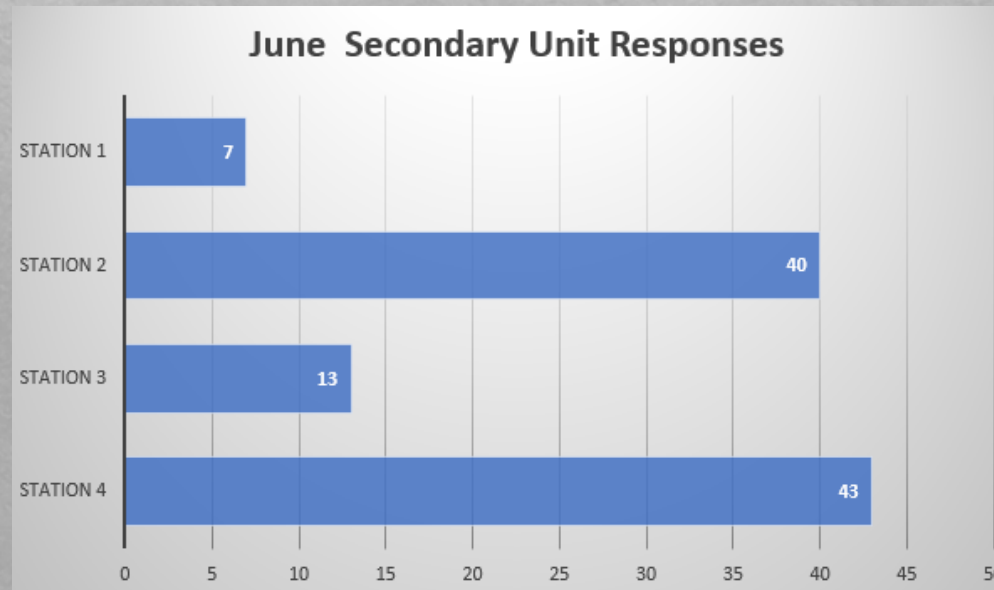
Responses by Station

- Station 1 78
- Station 2 59
- Station 3 38
- Station 4 23



Secondary Responses by Station

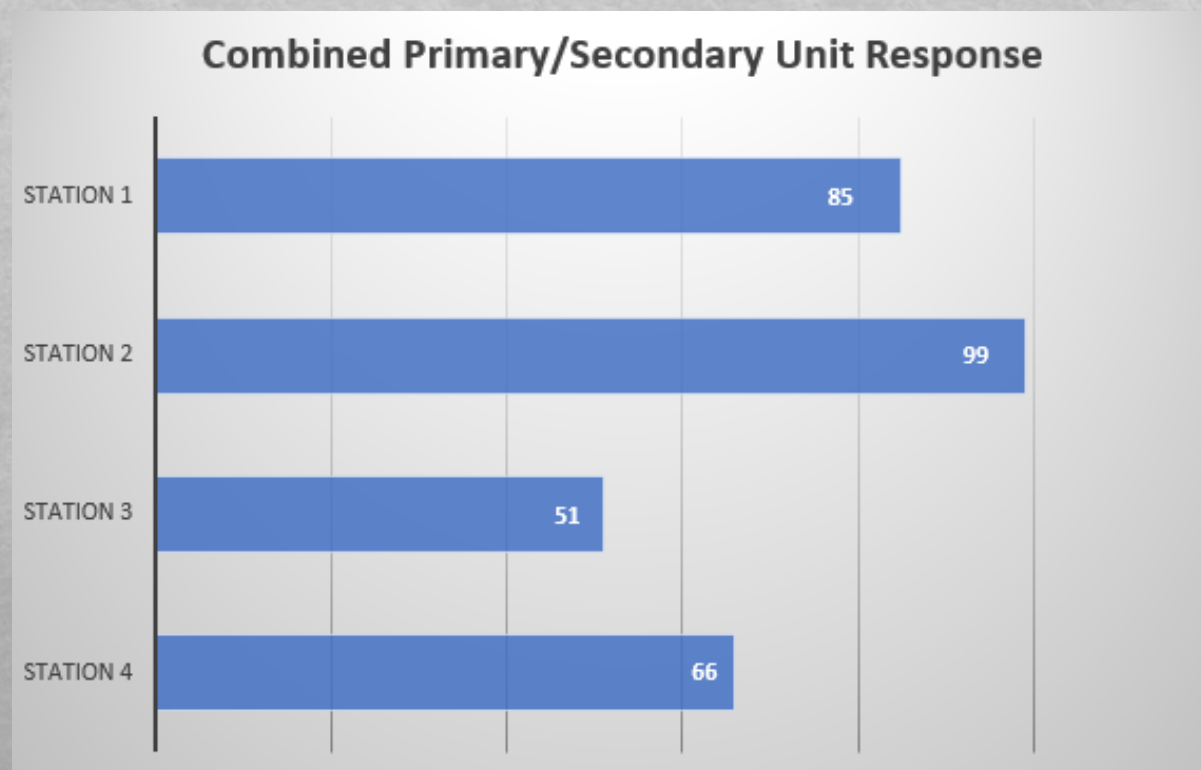
- Station 1 7
- Station 2 40
- Station 3 13
- Station 4 43





June Combined Primary/Secondary Unit responses by station

❖ Station 1	85
❖ Station 2	99
❖ Station 3	51
❖ Station 4	66

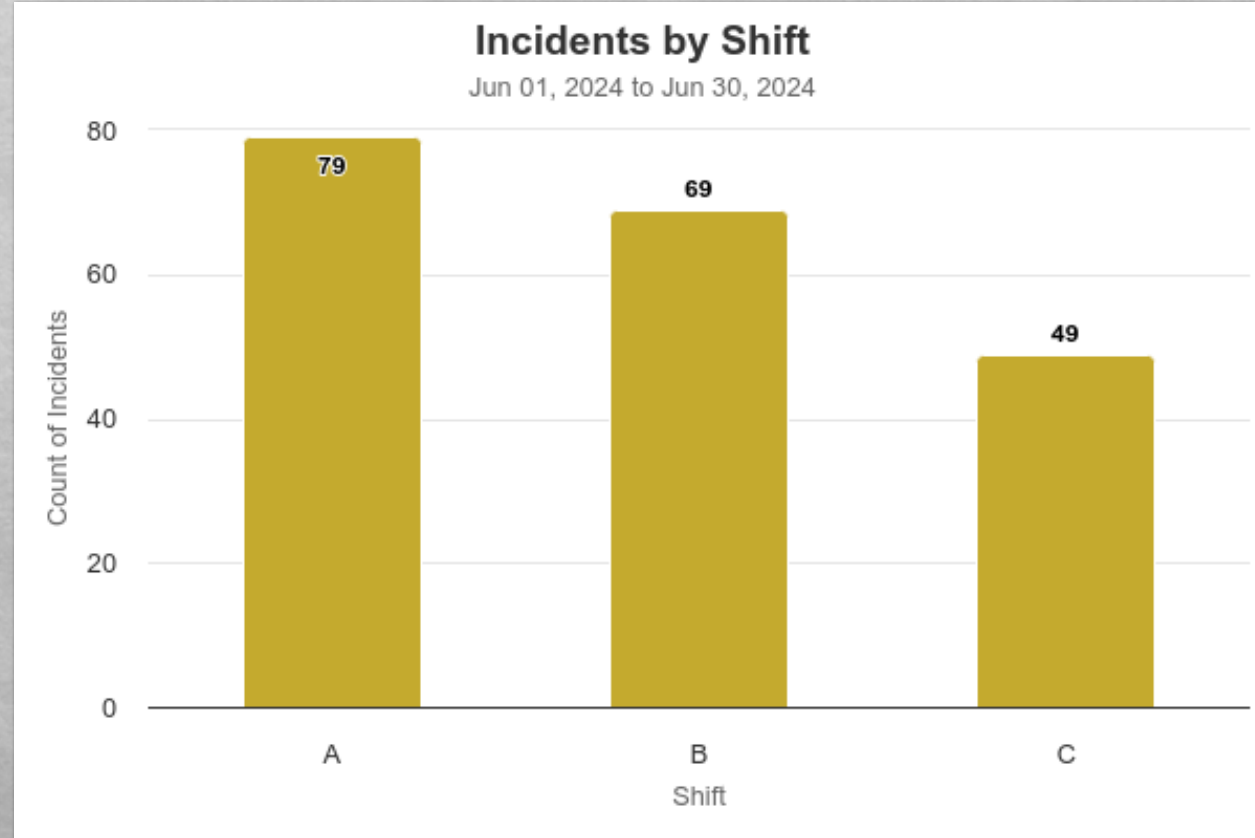


May Incidents by shift



- A Shift
- B Shift
- C Shift

June 2024							
Prev							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							



A Shift 79

B Shift 69

C shift 49

Significant Calls



- ❖ Crews responded to a person laying down off the side of the highway. Crews arrived to find a single patient with life threatening injuries. Patient was believed to have been in a motorcycle accident. Patient flown to closest trauma facility.
- ❖ Crews Responded to the Rio Rico Land Fill for reports of a fire. Crews arrived to find a active fire approximately 300 from the top. Crews were able to extinguish the fire with assistance from agencies in the area (Rio Rico Fire and Santa Cruz County). Cause is undetermined
- ❖ Walk-In patient with chest discomfort, patient was actively having a heart attack. Patient was flown to the closest cardiac receiving facility.
- ❖ Responded to a Patient who was stung by a bee
- ❖ Received a call for mutual aid to the City of Nogales for a large warehouse fire. Units were on scene for approximately 12 hours.



Training

- ❖ Unisource Training
Responding to Gas and Electric Emergencies
- ❖ Hi and Low angle rescue
- ❖ Recruit Orientation
- ❖ Water Supply Operations
- ❖ ACLS Instructor certification
- ❖ Wildland Firefighting



Public Education/Fire Prevention and Events

- ❖ Public Education last month focused on a 2-week future firefighter camp. Age 10-15 year olds from the county



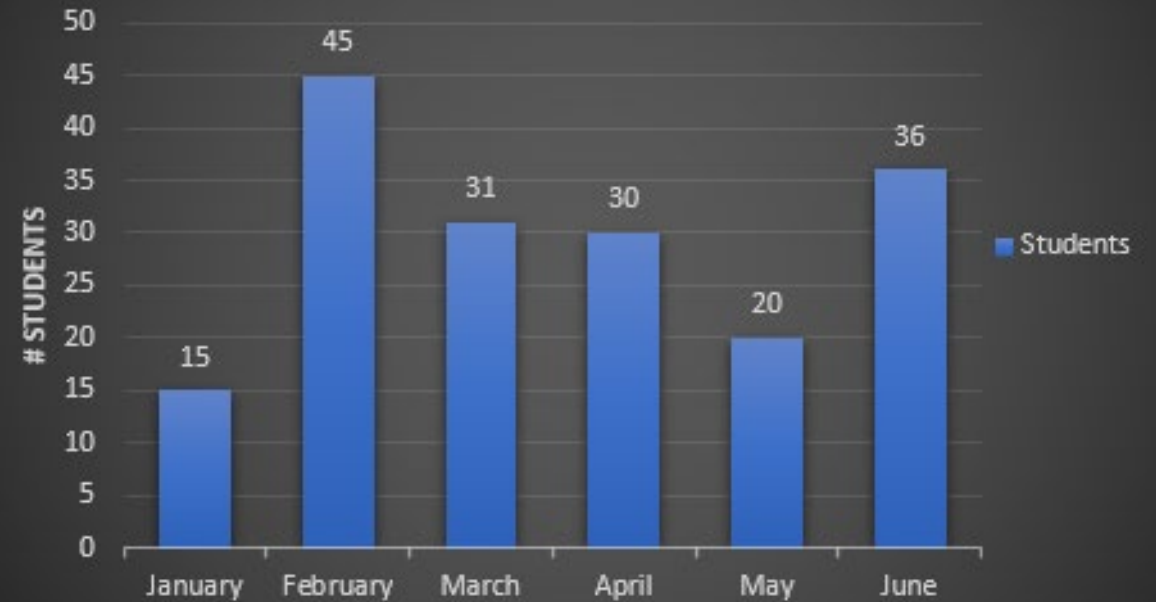


Fire Prevention and CPR Classes

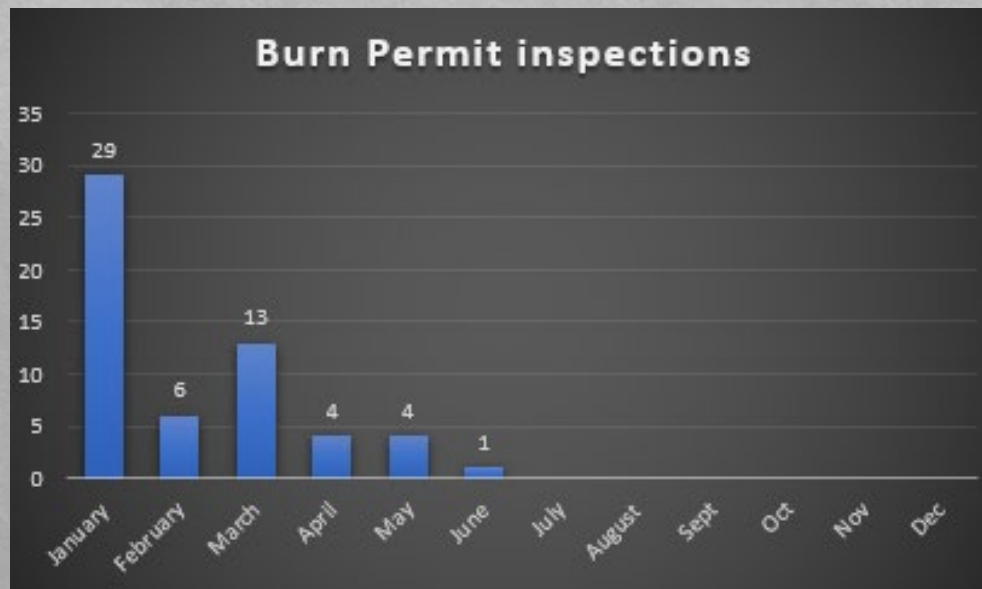
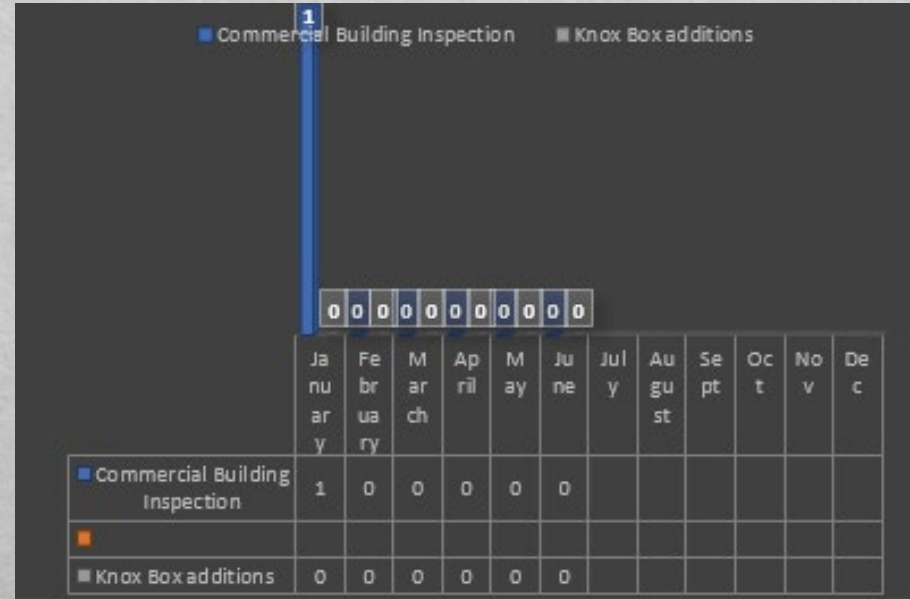
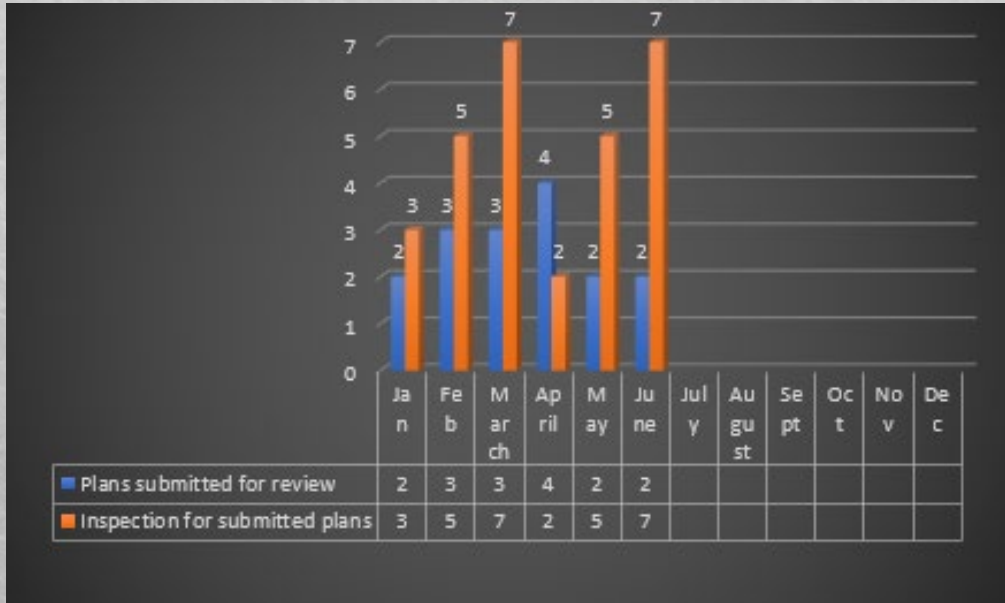
Fire Prevention Students



CPR Students

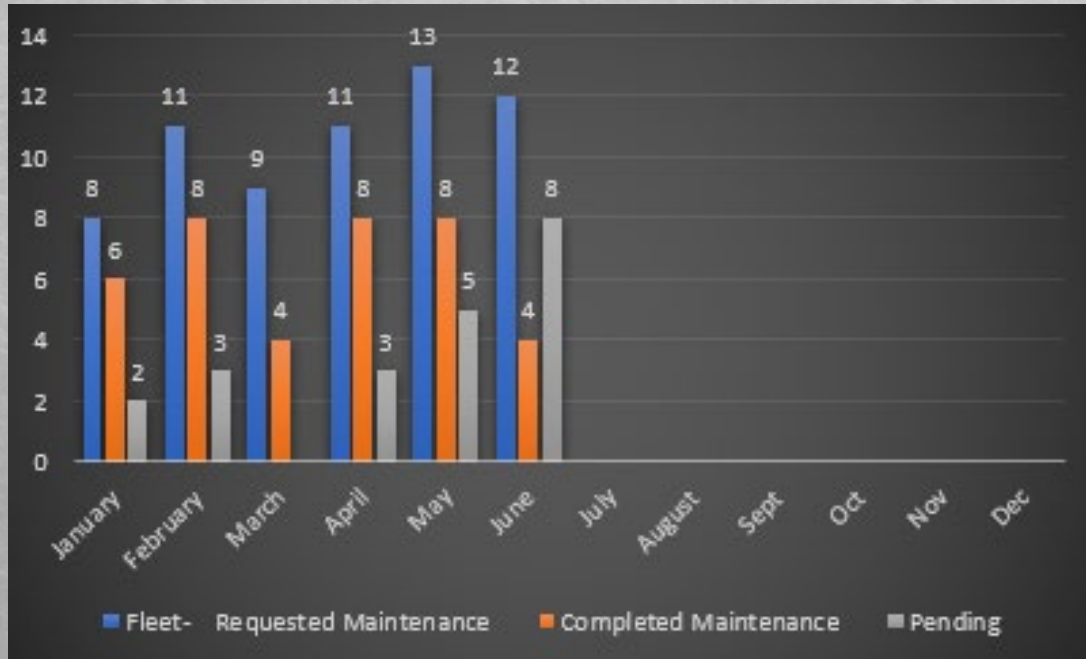


Plans Review & Inspections

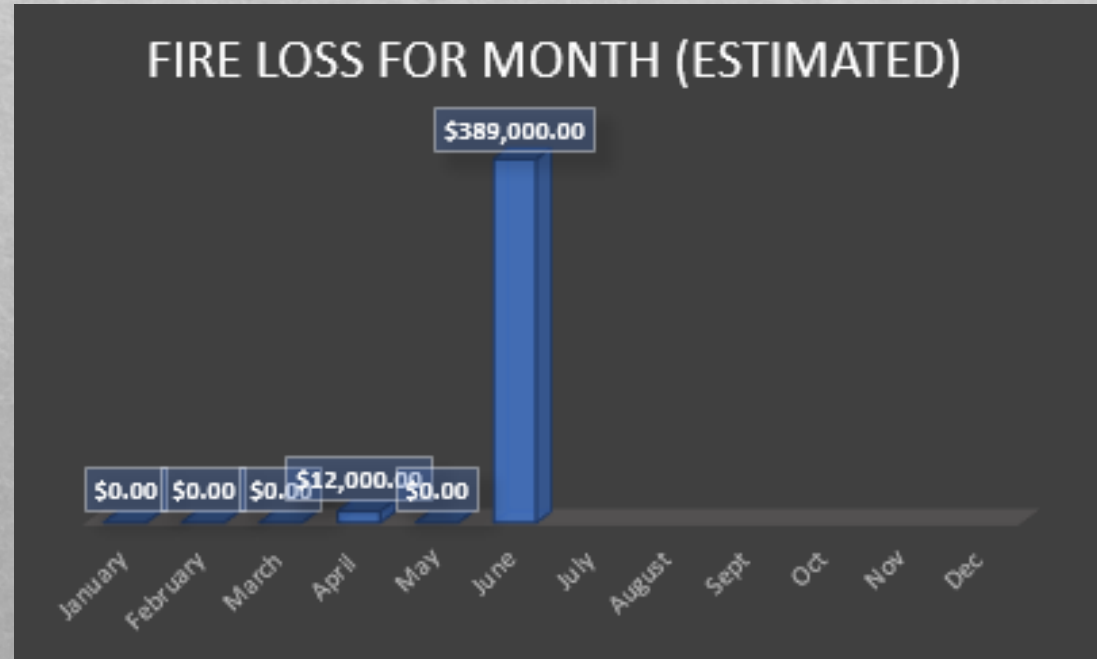




Maintenance Requests



Fire Loss Due To Incident



Tubac Fire Wildland Deployments 2024

Fire Name	Location	Beginning date	End date	Number of days	Personnel deployed	Personal status	Equipment type	Personnel total billed	Expenses	Admin Cost	Equipment total billed	Total billed
Refuge Fire	Imperial National wildlife refuge	Saturday, May 25, 2024	Monday, June 3, 2024	9 Days	1 Medic and 1 EMT	Full Time	Medical Unit	\$10,179.73	\$2,241.15	\$103.68	\$8,315.48	\$20,840.04
Snowshed	Coronado National Forest	Sunday, July 7, 2024	Wednesday, July 10, 2024	4 Days	1 Medic and 1 Wild FF	Part Time	Water Tender	\$2,292.52	\$213.49	\$37.03	\$4,900.00	\$7,443.04

TO: Fire Board Members

FROM: Mary Dahl

RE: Agenda Item for July 31, 2004 – Fire Chief Job Description

DATE: July 24, 2024

SUBJECT: Discussion and Possible Action to Approve a revised job description for the Fire Chief position.

BACKGROUND: This topic was initially raised by Board Member Peter Benequista. He criticized the existing job description for the Fire Chief saying it was too long and overly complicated.

The topic has been agendaed a couple of times over the past several months with no resolution. In June, the Chairman asked if I would work with Mr. Benequista to resolve the issue.

The existing job description has been edited down to three pages and is attached as Exhibit 1. There was some redundancy and “extra” words that were massaged. Regarding the sections of the job description related to Physical and Mental Demands and Work Environment, our HR consultant stated that she believes, in her professional judgement and experience, that these are critical. She states that having these in the job description protects the District from potential ADA claims. She also pointed out that our Fire Chief, because we are a small District, is often called on to respond to emergency situations, making it even more important that these conditions are spelled out. These sections were also edited, however, to consolidate and shorten the text.

Because we are a small District, it is necessary for the Chief to be able to know about and effectively do many many things that a big city Chief has staff support for. For this reason, it is appropriate, in my view, to have a comprehensive real-life description of what a rural fire chief experiences and what is expected by the Board.

In the public agency HR world, job descriptions need to include, at a minimum, a work description, KSA (knowledge, skills and abilities), and minimum qualifications. For complex, high-level positions, expanding to include major functions and responsibilities as well as preferred qualifications helps fully describe the type of person sought.

This draft was shared with Mr. Benequista. In his review, he reiterated that the document was still overly long and repetitive. He stressed his view that the document is intended to 1) recruit candidates, 2) highlight the differences between this and other Fire District jobs and 3) provide a lead-in to a contract, performance plan and evaluation. He also firmly asserts the duty and responsibility of the Board to find and hire the best candidate.

Mr. Benequista prepared an edited version of the Fire Chief job description that is essentially a one-page document and it is attached as Exhibit 2. It is succinct and describes five areas of responsibility.

SUGGESTED MOTION: Mr. Chairman, I move we adopt Exhibit ____ as the official job description for the Tubac Fire Chief.



JOB DESCRIPTION - FIRE CHIEF

General Description:

The primary duty of the Fire Chief is to serve as the Chief Executive Officer, providing the knowledge, skills and leadership to manage the Tubac Fire District ("the District"). The Fire Chief shall administer all aspects of the District, formulating management strategies to ensure the proper, efficient and ethical completion of the goals and objectives set by the Fire District Board of Directors ("the Board"). The Fire Chief shall provide oversight and review of all operational fire district functions.

Job Scope:

The Fire Chief is responsible for all operations and activities of the District. The position involves a high degree of regular contact with others both inside and outside the District as he or she works highly independently on a wide variety of complex duties and responsibilities with only general direction given by the Fire District Board. Performance of functions has significant financial, reputational, and operational impact upon the District which requires the incumbent to use a high degree of judgment and tact in the execution of the essential functions. The position requires travel both inside and outside the District as he or she represents the District in community, political, and other fire service related activities; additionally, the position involves frequently working under a high degree of stress and requires working long hours in the performance of essential functions.

Supervision Received:

The Fire Chief works at the pleasure of and under the guidance and direction of the Board, who review work on the basis of overall results achieved, however, the Fire Chief works independently in supervising the overall technical operations and is responsible for the proper administration of all affairs of the District.

Supervision Exercised:

The Fire Chief is responsible for direct supervision of the Assistant Chief/Fire Marshal and office staff, and indirect supervision of all other District employees in accordance with the District's policies and applicable laws.

Essential Functions and Responsibilities: *The essential functions of the position include, but are not limited to, the following duties and responsibilities that are listed in no particular order of importance or significance:*

Human Resource Management

- Direct the administration of the District through effective leadership and implementation of all District personnel and programs.

General Administration

- Collaborate with the Board and staff to develop and implement the District's strategic plan and
- develop the appropriate tactics to achieve the its goals and objectives.
- Manage the development and implementation of all District policies, procedures, projects, annexations and contracts.
- Direct the legal posting and publication of legal advertisements.
- Manage the District's public and financial records control systems including internal audits, bank controls, tax audits and Records Retention and Disposition schedule.

- Coordinate with District legal counsel to ensure compliance with applicable federal, state and local laws and regulations, including records requests.

Financial Management

- Perform financial strategic planning, including preparation and management of the annual budgets within the tax levy rate set forth by the Board.
- Pursue, develop, and implement alternative funding and revenue opportunities.
- Oversee the procurement and management of all District assets in compliance with applicable laws and policies.
- Manage the District's inventory of resources, equipment, and facilities and manage the maintenance of all resources, equipment and facilities.

Emergency Services Delivery

- Direct the analysis of fire and emergency service needs, and develop plans and techniques to provide adequate protection for the District.
- Oversee coordination with neighboring departments and emergency service agencies, serve as a member of the District's Incident Management Team and, at times, as the Incident Commander.
- Oversee ongoing evaluation of the operational readiness and performance of emergency preparedness and response systems.

Health and Safety

- Develop and provide leadership for a risk management program in order to minimize personnel injuries and property damage and ensure necessary safety procedures are established and followed.

Community and Government Relations

- Effectively manage the District's public relations and community participation efforts.

Reporting Obligations and Board Support:

- Provide monthly financial reports to the Board in order to ensure communication of accurate and timely accounting of District finances.
- Provide the Board with weekly e-mail updates of events, meetings and actions occurring in the prior week.
- Prepare and distribute meeting agendas, draft minutes and all supporting documentation at least five (5) calendar days prior to the next meeting.
- Prepare a thorough staff report for every item on a board agenda with enough information so that Board members can make informed decisions.

Minimum Qualifications:

- A Bachelor's degree from an accredited college or university recognized by the U.S. Department of Education in Fire Science, Business Administration, Public Administration or other related field.
- A minimum of twelve (12) years of experience in the fire/emergency services industry with at least five (5) years in a Chief Officer role.
- Experience in development and management of budgets, preferably in a governmental setting.
- Ability to meet the District's Health and Wellness standards and insurability requirements.
- Valid Arizona Driver's License, or ability to obtain within 30 days of employment.
- Primary residence within District boundaries is desired; however, if not feasible based on current residency, the position requires residency that readily allows for active involvement and accessibility to the community, with a planned goal of District residency.

Preferred Qualifications:

- Master's degree in Fire Administration, Business Administration, Public Administration or other related field.
- Executive Fire Officer (EFO) or Chief Fire Officer (CFO) designation.
- Current Emergency Medical Technician (EMT) or Paramedic (CEP) certification, either Arizona or National Registry.

- Understanding and working knowledge of statutory requirements of special taxing districts.

Knowledge, Skills and Abilities:

Strong working knowledge of:

- Current modern office practices, standards and procedures.
- Governmental budgeting, financial management and accounting practices, principles, systems, and reporting.
- Relevant Federal, State and local laws, rules and regulations for fire districts, public safety, labor relations and human resource management.
- Management principles, policies and procedures regarding fire and emergency medical services administration.
- NFPA guidelines, regional, state, and federal standards used in EMS, Command, Fire Suppression, and Fire Codes.
- NIMS and Incident Command Systems and their practical applications.
- Risk management and compliance issues related to HIPAA, OSHA and NFPA and insurance.
- Public purchasing, materials management and procurement processes.

Ability to:

- Achieve District goals and objectives through effective leadership.
- Identify and protect confidential information and records.
- Demonstrate effective oral and written communications, both in individual or group settings.
- Plan, organize and prioritize a complex and fast-moving work environment to meet goals and objectives on time.
- Interact effectively with elected officials, other public safety organizations and the public.

Physical Demands:

The physical demands described are representative of those that must be met by all personnel to successfully perform the essential functions of this job. Reasonable accommodations may be made to enable individuals with qualifying disabilities to perform the essential functions. The position is exposed to physical hazards from emergency response and work at emergency medical and fire scenes, sitting, standing, stretching, bending, and lifting objects weighing more than 25 pounds, above the shoulders, below the knees or at arm's length. The position requires extensive use of modern office machines. Frequent driving of a motor vehicle, in emergency and non-emergency situations is required. Specific vision abilities include close, distance, color, and peripheral vision, depth perception, and the ability to adjust focus.

Mental Demands:

While performing the duties of this position, the employee will be regularly required to use written and oral communication skills; read and interpret complex information; analyze and solve problems; use math and mathematical reasoning; observe and interpret situations; learn and apply new information or skills; and interact with District personnel, other organizations and the public.

Work Environment:

The work environment characteristics described here are representative of those an individual will encounter while performing the essential functions of this job. Reasonable accommodations may be made to enable an individual with disabilities to perform the essential functions. Work is primarily performed in an office, vehicle or outdoor setting in all weather conditions, including temperature extremes and, occasionally, in emergency and stressful situations. Personnel are exposed to sirens and hazards associated with fighting fires and rendering emergency medical assistance, including adverse physical conditions, infectious substances, smoke, noxious odors, fumes, chemicals, solvents and oils, radiation, risk of electrical shock and vibration. Personnel occasionally work near moving mechanical parts and in high, precarious places. The noise level in the work environment is usually moderate, except during certain firefighting or EMS activities when noise levels may be loud.

EXHIBIT 2

PROPOSED DRAFT 7-21-24

JOB DESCRIPTION - FIRE CHIEF

The Fire Chief is responsible for overseeing and coordinating all aspects of operations within the Tubac Fire District including strategic planning, personnel management, budgeting, training, emergency response and community outreach.

Leadership and Administration:

- Provide strong leadership to the district personnel.
- Develop and implement policies and procedures to ensure efficient, effective operations.
- Collaborate with the Board of Directors, local authorities, government agencies and community organizations to achieve common goals.

Personnel Management:

- Recruit, train and supervise firefighting, emergency medical service and administrative staff.
- Encourage ongoing education and training programs and certifications for staff.
- Stay abreast of and implement the latest firefighting techniques, technologies and safety protocols.
- Conduct performance evaluations and provide ongoing professional development.
- Foster a positive work environment.

Emergency Response:

- Develop, continuously improve and oversee emergency response plans and activities.
- Ensure readiness for various emergency scenarios.
- Ensure compliance with safety standards and protocols during firefighting and rescue operations.
- Collaborate with other agencies to optimize overall emergency preparedness.
- Participate in emergency response when necessary.

Budget and Resource Management

- Develop and manage the District budget.
- Plan and procure necessary facilities, resources, equipment, and training materials.
- Monitor and control expenditures to stay within budget constraints.

Community Relations

- Maintain positive relationships with the local community.
- Conduct public education programs on fire safety and prevention and on emergency medical first aid.
- Participate in community events and forums.

Board Action Request

SUBJECT: Purchase firefighter ensembles for new hires

DATE: July 23, 2024

FROM: Martin Lujan, Manufacturer Trained Specialist for Tubac Fire District

Background: The district is requesting approval to purchase four sets of firefighter turnout ensembles that meet the NFPA 1971 Standard. We currently have four new firefighters in ensembles that are past the ten year recommended replacement guideline that need to issued an initial new set to meet NFPA 1971 standards. We have met with various vendors and have received quotes on turnout ensembles that meet *NFPA 1971: Standard on Protective Ensembles for Structural Fire Fighting and Proximity Fire Fighting*, and department specifications.

We have gathered quotes on what it would cost to purchase four sets of firefighting ensembles, each set includes Nomex hood, coat, pants, suspenders, gloves, and four sets of boots.

Three quotes are provided from United Fire, Curtis Equipment, and Fire Penny. Each vendor offers measuring, and custom fitting for both men and women prior to ordering.

Fiscal Impact: United Fire \$20,721.48

Alternate Option: Curtis Equipment \$22,244.69 Fire Penny \$22,102.51

Staff Recommendation: United Fire is our recommendation, we would be buying our current specification that the district has been purchasing for the last four years, and years prior before switching to a product that did not meet the same quality. United Fire is the sole provider of what we currently use, and this PPE has proven its quality of life to meet the NFPA Standard 1971 10 years of service life.

Proposed Motion: Move to approve purchase of four ensembles from United Fire not to exceed \$20,721.48 to meet the NFPA 1971 requirements for four new hire suppression employees.

See Attachments

- United Fire Quote
- Curtis Equipment Quote
- Fire Penny Quote



335 N. Fourth Avenue, Tucson, AZ 85705
 t. 800.362.0150 f. 800.882.3991

QUOTE

Number UFEQ38543
Date May 31, 2024
Dept

Sold To	Ship To	Your Sales Rep
---------	---------	----------------

Tubac Fire District # 1
 Martin Lujan
 2227 E. Frontage Rd.
 Tubac, AZ 85646
 Santa Cruz

Tubac Fire District # 1
 Martin Lujan
 2227 E. Frontage Rd.
 Tubac, AZ 85646
 Santa Cruz



Jeff Gilbert
 520-306-1913
 jeffg@ufec.com

ACC # TUB020
Phone (520)260-6166
Fax (520)433-0505

LID # 52105
Phone (520)260-6166
Fax (520)433-0505

Jeff Gilbert
Offer Prepared By: Andrew Hoskinson

Here is the quote you requested.

Terms	Tx Code	Due	P.O. #	Ship Via	FOB	N-SO#	N-INV#	Pay Method	Check#
NET 30	LOCATIO	6/14/2024		Best	Factory				

Qty	Description	Unit Price	Ext. Price
	(PSGQ25708-I)		
	V-FORCE COAT (ZIPPERS IN COATS)		
1	Coat, V Force, Sz 4432R - HIRAM SAAVEDRA	\$2,475.00	\$2,475.00
1	Coat, V Force, Sz 4435L - CHRISTORO PARRA	\$2,475.00	\$2,475.00
1	Coat, V Force, Sz 4632R - DANIAL DOMINGUEZ	\$2,475.00	\$2,475.00
1	Coat, V Force, Sz 5032R - ALAN ACEVEDO	\$2,475.00	\$2,475.00
	V-FORCE PANTS		
1	Pant, V-Force, 34L - HIRAM SAAVEDRA	\$1,600.00	\$1,600.00
1	Pant, V Force, 38XL - CHRISTORO PARRA	\$1,600.00	\$1,600.00
1	Pant, V-Force, 40R - DANIAL DOMINGUEZ	\$1,600.00	\$1,600.00
1	Pant, V-Force, 42L - ALAN ACEVEDO	\$1,600.00	\$1,600.00
	HOOD		
4	Hood, Nomex Blend	\$33.50	\$134.00
	GLOVES		
3	Glove, Commander Ace, LG	\$117.25	\$351.75
1	Glove, Commander ACE, XL	\$117.25	\$117.25
	STRUCTURAL BOOTS		
1	Boot, Fire Hunter Xtreme, 9.5M - C PARRA	\$455.00	\$455.00

Terms & Conditions of Sale: Prices quoted are firm for thirty (30) days unless otherwise noted. When you accept a quote it is our indication that you have selected any required changes, carefully reviewed all part numbers, descriptions, unit quantities, taxes, shipping, and handling charges. A 50% deposit is required on all engineered projects and orders for non-stock items without approved payment terms. United Fire accepts all major credit cards, cash, business checks, and EFT's. Automatic monthly and quarterly credit card billing options are offered for inspection and maintenance packaged services. We hope you use our products safely. In the event that an item needs to be replaced or returned we will attempt to make reasonable accommodations. In accordance with United Fire's return policy, a re-stocking fee may be applied at the time of a return. There is a \$35.00 fee for cancelling scheduled services within 24 Hours of a set appointment. The order process begins when you sign and accept the quote and make any required incremental payments. Orders do not ship until a full payment has been authorized via approved purchase order or credit card. There is a 1.5% per month late charge on all past due invoices. LIMITATION OF LIABILITY: The Seller's liability whether in contract, in tort, under any warranty, in negligence or otherwise, shall not exceed One Thousand Dollars (\$1000.00) and buyer's remedy or damages shall be limited to, the return of the purchase price paid. Under no circumstances shall seller be liable for consequential or special damages.

Qty	Description	Unit Price	Ext. Price
1	Boot, Fire Hunter Xtreme,10.0M - D DOMINGUEZ	\$455.00	\$455.00
1	Boot, Fire Hunter Xtreme,11.0M - H SAAVEDRA	\$455.00	\$455.00
1	Boot,Fire Hunter Xtreme,12M - A ACEVEDO	\$455.00	\$455.00
NAME PANEL			
1	UF NAME PANEL - A ACEVEDO	\$55.00	\$55.00
1	UF NAME PANEL - H SAAVEDRA	\$55.00	\$55.00
1	UF NAME PANEL - D DOMINGUEZ	\$55.00	\$55.00
1	UF NAME PANEL - C PARRA	\$60.00	\$60.00
Freight			
1	Freight & Handling Will be Pre Paid & added to Invoice	\$125.00	\$125.00
		SubTotal	\$19,073.00
		Tax	\$1,648.48
		Shipping	\$0.00
		Total	\$20,721.48

Authorizing Signature _____

Printed Name _____

Please contact me if I can be of further assistance.

Terms & Conditions of Sale: Prices quoted are firm for thirty (30) days unless otherwise noted. When you accept a quote it is our indication that you have selected any required changes, carefully reviewed all part numbers, descriptions, unit quantities, taxes, shipping, and handling charges. A 50% deposit is required on all engineered projects and orders for non-stock items without approved payment terms. United Fire accepts all major credit cards, cash, business checks, and EFT's. Automatic monthly and quarterly credit card billing options are offered for inspection and maintenance packaged services. We hope you use our products safely. In the event that an item needs to be replaced or returned we will attempt to make reasonable accommodations. In accordance with United Fire's return policy, a re-stocking fee may be applied at the time of a return. There is a \$35.00 fee for cancelling scheduled services within 24 Hours of a set appointment. The order process begins when you sign and accept the quote and make any required incremental payments. Orders do not ship until a full payment has been authorized via approved purchase order or credit card. There is a 1.5% per month late charge on all past due invoices. LIMITATION OF LIABILITY: The Seller's liability whether in contract, in tort, under any warranty, in negligence or otherwise, shall not exceed One Thousand Dollars (\$1000.00) and buyer's remedy or damages shall be limited to, the return of the purchase price paid. Under no circumstances shall seller be liable for consequential or special damages.

CUSTOMER

[Edit](#)

mlujan@tubacfire.org

SHIPPING

[Edit](#)

Martin Lujan

Tubac Fire District 52026026166

1360 W. Frontage Road

Rio Rico, Arizona, 85648 / United States

FedEx (FedEx Ground) **\$56.27**

BILLING

[Edit](#)

Martin Lujan

Tubac Fire District 52026026166

1360 W. Frontage Road

Rio Rico, Arizona, 85648 / United States

PAYMENT

Credit Cards



Credit Card Number

Expiration

MM / YY

Name on Card

CVV



PayPal



Pay Later

Pay monthly for purchases of \$199-\$10,000 with **PayPal**. [Learn more](#)



Purchase Order (NET 30) (business/municipality)



Wire Transfer

Coupon/Gift Certificate

PLACE ORDER

ORDER SUMMARY

20 Items



1 x Lakeland Stealth Turnout Coat

\$2,789.00

Shell Material 7.0oz Pbi MAX Gold

Liner Material Stedair GOLD Caldura NANO

Chest Width 44"

Sleeve Length 32.50"



1 x Lakeland Stealth Turnout Coat

\$2,789.00

Shell Material 7.0oz Pbi MAX Gold

Liner Material Stedair GOLD Caldura NANO

Chest Width 44"

Sleeve Length 35.00"



1 x Lakeland Stealth Turnout Coat

\$2,789.00

Shell Material 7.0oz Pbi MAX Gold

Liner Material Stedair GOLD Caldura NANO

Chest Width 46"

Sleeve Length 32.50"



1 x Lakeland Stealth Turnout Coat

\$2,789.00

Shell Material 7.0oz Pbi MAX Gold

Liner Material Stedair GOLD Caldura NANO

Chest Width 50"

Sleeve Length 32.50"



1 x Lakeland Stealth Turnout Pants

\$2,090.00

Shell Material 7.0oz Pbi MAX Gold

Liner Material Stedair 4000 Caldura NANO

Waist 34"

Inseam 32"



1 x Lakeland Stealth Turnout Pants

\$2,090.00

Shell Material 7.0oz Pbi MAX Gold

Liner Material Stedair 4000 Caldura NANO

Waist 40"

Inseam 32"



1 x Lakeland Stealth Turnout Pants

\$2,090.00

Shell Material 7.0oz Pbi MAX Gold

Liner Material Stedair 4000 Caldura NANO

Waist 42"

Inseam 32"



1 x Lakeland Stealth Turnout Pants

\$2,090.00

Shell Material 7.0oz Pbi MAX Gold

Liner Material Stedair 4000 Caldura NANO

Waist 38"

Inseam 32"



1 x STC Marshall

\$469.98

Size 9.5

Width Wide



1 x STC Marshall

\$469.98

Size 10

Width Wide



1 x STC Marshall

\$469.98

Size 11

Width Wide



1 x STC Marshall

\$469.98

Size 12

Width Wide



3 x Majestic MFA 72 Premium Structural Firefighting Gloves, Gauntlet

\$379.11

Size 76W / Large



1 x Majestic MFA 72 Premium Structural Firefighting Gloves, Gauntlet

\$126.37

Size 82N / X-Large



4 x Majestic PAC IA Nomex Blend Firefighter Hood

\$144.84

[See Less ^](#)

Subtotal **\$22,046.24**

Shipping **\$56.27**

Tax **\$0.00**

Coupon/Gift Certificate

Total (USD) \$22,102.51

Customer mlujan@tubacfire.org

Edit

Shipping

Martin Lujan
Tubac Fire District (520)260-6166
1360 W Frontage Rd
Rio Rico, Arizona, 85648 / United States

Edit

Ship by Best Method **\$26.99**

Billing

Martin Lujan
Tubac Fire District (520)260-6166
1360 W Frontage Rd
Rio Rico, Arizona, 85648 / United States

Edit

4 Payment



Secure Credit Card



Credit Card Number

Expiration

MM / YY

Name on Card

CVV

PLACE ORDER

Order Summary

20 Items



1 x Globe Gold 7.0 PBI Max GPS
Response Ready Pants
Color Gold
Waist 34 in.
Length 32 in.
Style Slim

\$1,939.12



1 x Globe Gold 7.0 PBI Max GPS
Response Ready Pants
Color Gold
Waist 38 in.
Length 32 in.
Style Slim

\$1,939.12



1 x Globe Gold 7.0 PBI Max GPS
Response Ready Pants
Color Gold
Waist 40 in.
Length 32 in.
Style Slim

\$1,939.12



1 x Globe Gold 7.0 PBI Max GPS
Response Ready Pants
Color Gold
Waist 44 in.
Length 32 in.
Style Slim

\$1,939.12



1 x Globe Response Ready Black 7.0
PBI Max G-Xtreme 3.0 Tapered Coat
Color Black
Size 44 in.
Length 35 in.
Sleeve Length Standard

\$2,610.81



3 x Globe Response Ready Black 7.0
PBI Max G-Xtreme 3.0 Tapered Coat
Color Black
Size 48 in.
Length 32 in.
Sleeve Length Standard

\$7,832.43



1 x Globe ONYX 13" Pull-On Structural
Firefighting Boots
Size 9.5
Width D - Medium
Gender Men's

\$500.98



1 x Globe ONYX 13" Pull-On Structural
Firefighting Boots
Size 10
Width D - Medium
Gender Men's

\$500.98



1 x Globe ONYX 13" Pull-On Structural
Firefighting Boots
Size 11
Width D - Medium
Gender Men's

\$500.98



1 x Globe ONYX 13" Pull-On Structural
Firefighting Boots
Size 12
Width D - Medium
Gender Men's

\$500.98



3 x Shelby 5226 Gauntlet Fire Glove
Size Large

\$353.97



1 x Shelby 5226 Gauntlet Fire Glove
Size X-Large

\$117.99



4 x PGI COBRA CLASSIC Hood with
Comfort Plus Lining
Color Tan
Length Regular
Material PBI / Lenzing FR

\$166.52

See Less ^

Subtotal	\$20,842.12
Shipping	\$26.99
Tax	\$1,375.58
Coupon/Gift Certificate	

Total (USD)

\$22,244.69



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

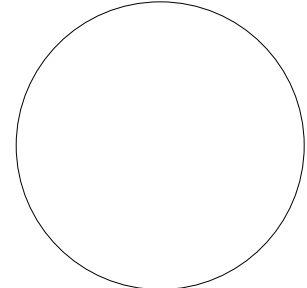
2227 I-19 Frontage Rd., Tubac, Arizona 85646

Preliminary Plans

JULY 2024

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

Preliminary Plans



PROJECT NO:
23.21.00

DATE:
JULY 2024

#	DATE	DESCRIPTION	ISSUED TO

DRAWN BY: JCG

CHECKED BY: CDA

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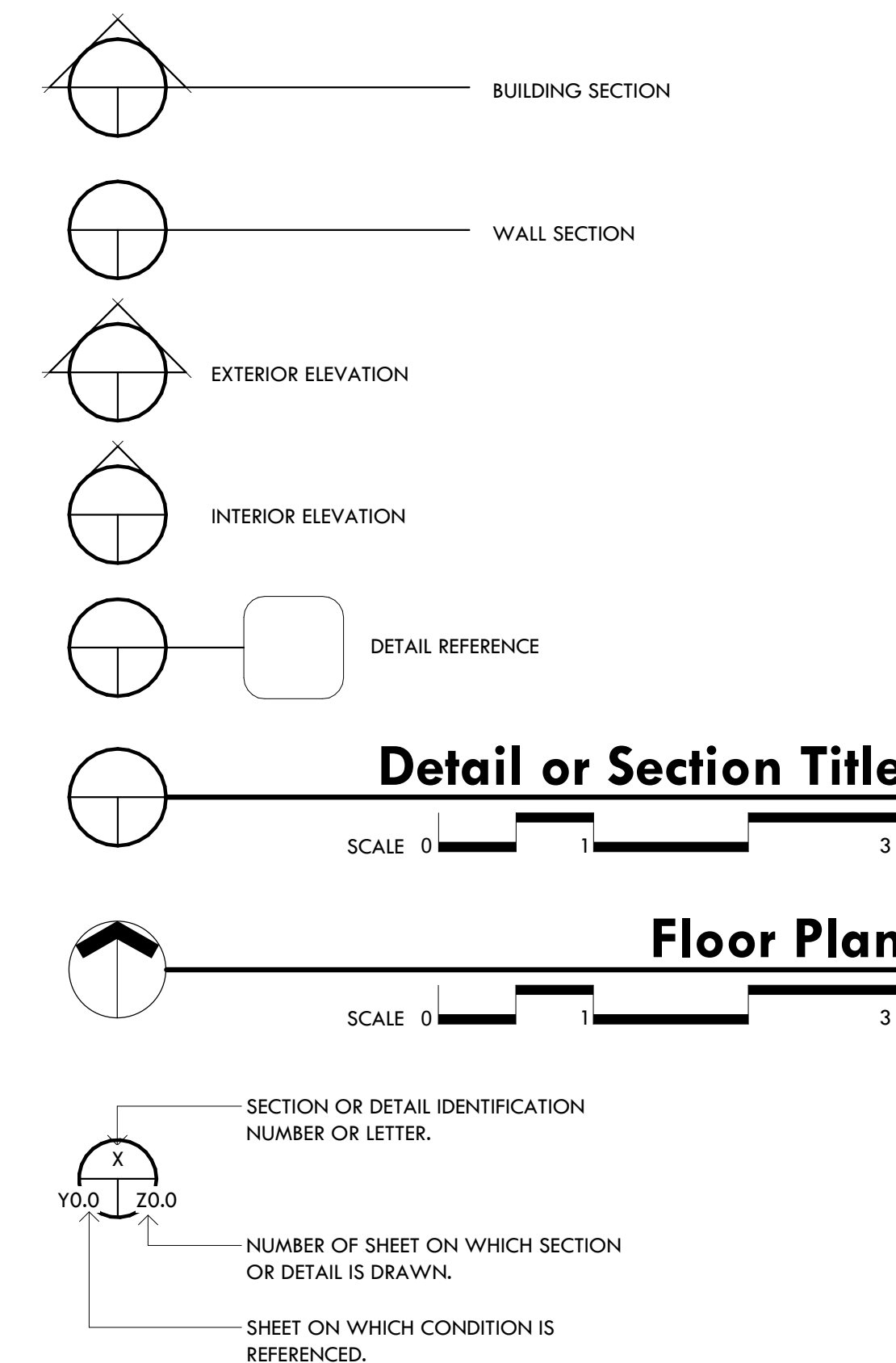
Cover

T10

ABBREVIATIONS

A.B. ANCHOR BOLT	JB JUNCTION BOX
A.B.C. AGGREGATE BASE COURSE	J.C. JANITOR'S CLOSET
ABV ABOVE	JST JOIST
A.C. AIR CONDITIONING	JT JOINT
ADJ ADJACENT	LAV LAVATORY
A.F.F. ABOVE FINISHED FLOOR	MAS MASONRY
ALLOW ALLOWANCE	MAT MATERIAL
ALT ALTERNATE	MAX MAXIMUM
ALUM ALUMINUM	M.B. MECHANICAL BOLT
A.M.P. AMPERE	MCJ MASONRY CONTROL JOINT
A.P. ACCESS PANEL	MECH MECHANICAL
A.T. ACOUSTICAL TILE	MFG MANUFACTURER
@ AT	M.H. MANHOLE
AUTO AUTOMATIC	MIN MINIMUM
BD BOARD	MISC MISCELLANEOUS
B.L. BUILDING LINE	M.L. METAL LATH
BLDG BUILDING	MMB MEMBRANE
BLKG. BLOCKING	MO MASONRY OPENING
BM BEAM	MTD MOUNTED
BR BEDROOM	MTL METAL
BRG BEARING	MULL MULLION
CAB CABINET	NIC NOT IN CONTRACT
CALC CALCULATION	NOM NOMINAL
C.B. CATCH BASIN	NO. NUMBER
CD CABINET DOOR	NTS NOT TO SCALE
CEM CEMENT	OD OUTSIDE DIAMETER
CEM. PLAS. CEMENT PLASTER	O.F. OUTSIDE FACE
CER. CERAMIC	O.F.C.I. OWNER FURNISHED CONTRACTOR INSTALLED
C.F.C.I. CONTRACTOR FURNISH CONTRACTOR INSTALL	O.F.O.I. OWNER FURNISHED OWNER INSTALLED
CF CUBIC FEET	OP OPAQUE
C CHANNELS	OPG OPENING
C.I. CAST IRON	OPP OPPOSITE
C.I.R. CIRCLE	PERP PERPENDICULAR
CIR CIRCUIT	PLT PLATE
CJ CONTROL JOINT	PLAS PLASTER
CL CENTRAL LINE	PL.GL. PLATE GLASS
CLG CEILING	PLAM PLASTIC LAMINATE
CLR CLEAR	PLYWD PLYWOOD
C.M. CULTURED MARVEL	PMT PAINTED
CMU CONCRETE MASONRY UNIT	PNL PANEL
C.O. CLEAN OUT	PR. PAIR
COL COLUMN	PROJ PROJECT
CONC CONCRETE	PRT PARTITION
CONST CONSTRUCTION	PT PRESSURE TREATED
CONT CONTINUOUS	PVC POLYVINYL CHLORIDE
CRPT CARPET	QT QUARRY TILE
CSK COUNTERSINK	QTY QUANTITY
C.T. CERAMIC TILE	R RISER
CUFF CUBIC FOOT	RAD RADIUS
CUYD CUBIC YARD	RA RETURN AIR
CW COLD WATER	RCPT RECEPTACLE
DET DETAIL	RD ROOF DRAIN
DF DRINKING FOUNTAIN	REG REGISTER
DH DOUBLE HUNG	RE REINFORCED
DIA DIAMETER	REQ'D REQUIRED
DIM DIMENSION	REV. REVISION
DIV DIVISION	RFG ROOFING
DN DOWN	RM ROOM
DR DOOR	RO ROUGH OPENING
DRWR DRAWER	SC SOLID CORE
D.S. DOWN SPOUT	SCWD SOLID CORE WOOD FLOOR
DTL DETAIL	SCH SCHEDULE
DP DAMPPROOFING	SQ.FT. SQUARE FOOT
DWG DRAWING	SHT SHEET
EA EACH	SIM SIMILAR
E.J. EXPANSION JOINT	SIM SHEET METAL
ELEC ELECTRICAL	SPECS SPECIFICATIONS
ELEV ELEVATION	SQ SQUARE
E.W. EACH WAY	SS STAINLESS STEEL
E.V.C. ELECTRICAL WATER COOLER	STD STANDARD
EXH EXHAUST	STOR STORAGE
EXIST'G EXISTING	STL STEEL
EXP EXPANSION	STR STRUCTURAL
EXT EXTERIOR	SUSP. CLG. SUSPENDED CEILING
(E) EXISTING	T TREAD
FBD FIBERBOARD	T&G TONGUE AND GROOVE
FBO FURNISHED BY OTHERS	THR THRESHOLD
FCB FIBER CEMENT BOARD	TOB TOP OF BEAM
F.D. FLOOR DRAIN	TOC TOP OF CURB
FCO FLOOR CLEAN OUT	TOF TOP OF FOOTING
FDN FOUNDATION	TOM TOP OF MASONRY
FE FIRE EXTINGUISHER	TOW TOP OF WALL
FEC FIRE EXTINGUISHER CABINET	TS TUBE STEEL
FFE FINISH FLOOR ELEVATION	TYP. TYPICAL
FGL FIBERGLASS	UNO UNLESS NOTED OTHERWISE
FIN FINISH	VCT VINYL COMPOSITION TILE
FLSH FLASHING	VERT VERTICAL
FLR FLOOR	VTR VENT THROUGH ROOF
FS FLOOR SINK	W/ WITH
FT FEET	WCO WATER CLOSET
FTG FOOTING	WCI WALL CLEAN OUT
FURR FURRING	WI WROUGHT IRON
GA GAUGE	WRBWD WATER RESISTANT- GYPSUM WALL BOARD
GLAV GALVANIZED	WSCT WAINSCOT
GLB GLUE LAMB BEAM	WT WEIGHT
GWB GYPSUM WALL BOARD	WWM WELDED WIRE MESH
H.B. HORSE BIB	WD WOOD
H.C. HOLLOW CORE	WIN WINDOW
H.D.W. HARDWARE	WP WATER PROOF
H.H. HOLLOW METAL	WR WATER RESISTANT
HORIZ HORIZONTAL	
HT HEIGHT	
HW HOT WATER	
HWR HOT WATER RETURN	
ICC INTEGRAL COLOR CONCRETE	
ID INSIDE DIAMETER	
IF INSIDE FACE	
INFO INFORMATION	
INS INSULATION	
INT INTERIOR	

SYMBOLS LEGEND



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	=====
GYPSUM 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 INTERNATIONAL SWIMMING POOL AND SPA 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

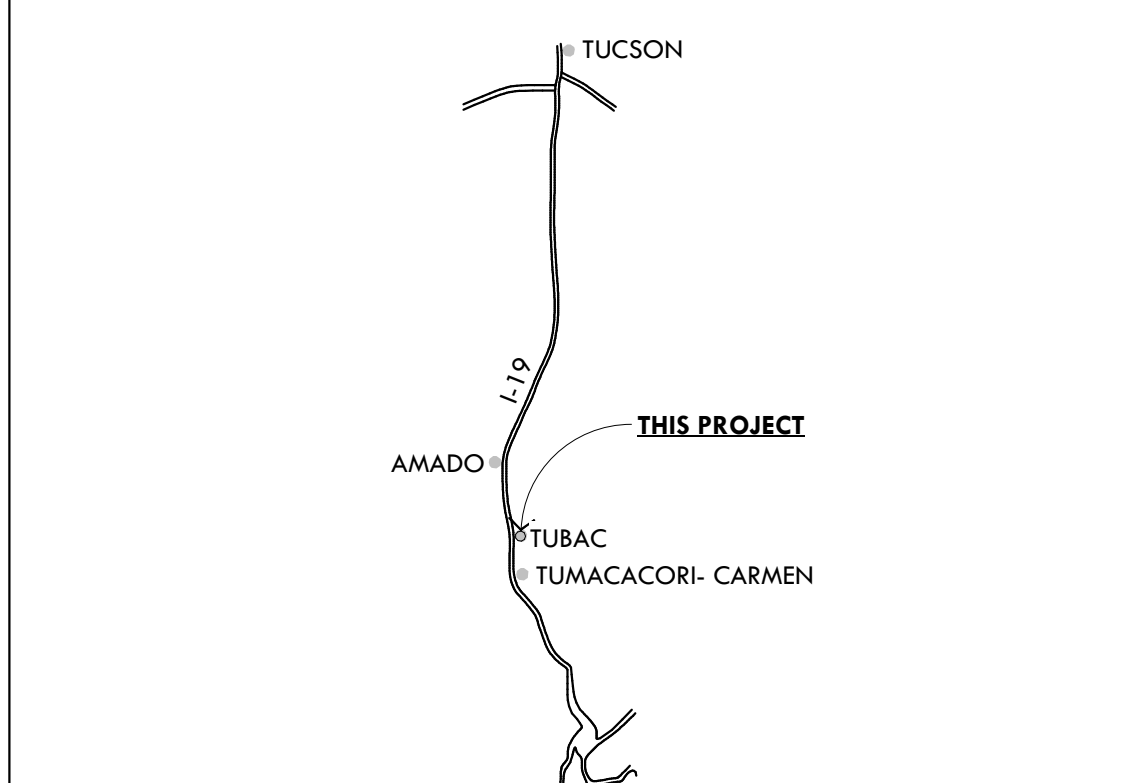
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Vicinity Map

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
CIVIL ENGINEER	KLINDT BRECKENRIDGE PRINCIPAL 520.882.99.44
STRUCTURAL ENGINEER	MARTIN, WHITE & GRIFFIS STRUCTURAL ENGINEERS, INC. 3501 EAST SPEEDWAY BOULEVARD TUCSON, ARIZONA 85716
MECHANICAL AND PLUMBING ENGINEER	ANDY DILEO, SE 520.327.9491
ELECTRICAL ENGINEER	M3 ENGINEERING & TECHNOLOGY 2051 W. SUNSET ROAD TUCSON, ARIZONA 85704
LANDSCAPE ARCHITECT	THE PLANNING CENTER 2 E CONGRESS ST #600 TUCSON, AZ 85701
CONTRACTOR	D.L. NORTON GENERAL CONTRACTING, INC. 8175 E. EVANS RD.# 14950 SCOTTSDALE, ARIZONA 85267
	SCOTT GILES PROJECT MANAGER 480.980.1340
	LEXY WELLOT PROJECT MANAGER 520.209.2634
	KEN WEYKER, PE MECHANICAL ENGINEER 520.327.7611
	RYAN STUCKI, PE SR. VICE PRESIDENT 520.321.4625
	ENGINEERING AND ENVIRONMENTAL CONSULTANTS- CEC 555 E. RIVER ROAD #301 TUCSON, ARIZONA 85704



Location Map

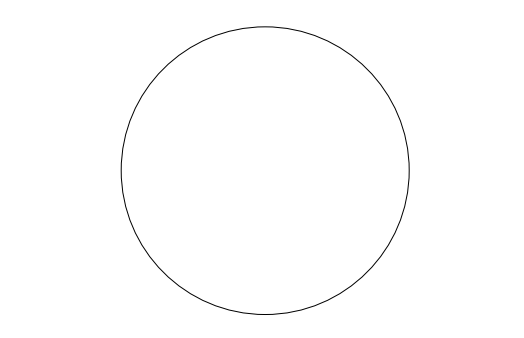
DRAWING INDEX

T1.0	COVER SHEET
T2.0	GENERAL INFORMATION
T3.0	CODE CHECK EGRESS PLAN
T4.0	CODE ANALYSIS
C0.0	CIVIL
C1.0	CIVIL
C2.0	CIVIL
C3.0	CIVIL
C3.1	CIVIL
C3.2	CIVIL
C3.3	CIVIL
C3.4	CIVIL
AD2.1	DEMOLITION PLAN
AS1.1	ARCHITECTURAL SITE PLAN
AS2.1	SITE DETAILS
AS2.2	SITE DETAILS
A2.1	FLOOR PLAN
A2.2	FURNITURE/ EQUIP. PLAN
A2.3	FURNITURE/ EQUIP. PLAN & EQUIP. SCHEDULE
A3.1	ENLARGED FLOOR PLANS
A3.2	INTERIOR ELEVATIONS
A3.2.1	MOUNTING HEIGHTS
A3.3	INTERIOR ELEVATIONS
A3.4	INTERIOR DETAILS
A3.5	MILLWORK
A3.6	MILLWORK DETAILS
A3.7	PARTITION TYPES
A4.1	REFLECTED CEILING PLAN
A5.1	ROOF PLAN
A6.1	BUILDING ELEVATIONS
A7.1	BUILDING SECTIONS
A7.2	WALL SECTIONS
A7.3	WALL SECTIONS
A7.4	WALL SECTIONS
A8.1	OPENING SCHEDULE & DOOR & WINDOW FRAME TYPES
A9.1	ROOM FINISH SCHEDULE
A10.1	DETAILS
A10.2	DETAILS
A10.3	DETAILS
S0.1	STRUCTURAL NOTES
S0.2	STRUCTURAL NOTES
S0.3	SPECIAL INSPECTIONS
S0.4	SPECIAL INSPECTIONS
S1.1	FOUNDATION PLAN
S1.2	ROOF FRAMING PLAN
S1.2A	ROOF FRAMING PLAN - STEEL ALT
S2.1	STRUCTURAL DETAILS
S2.2	STRUCTURAL DETAILS
S3.1	STRUCTURAL DETAILS
S3.2	STRUCTURAL DETAILS
S4.1	STRUCTURAL DETAILS
S4.2	STRUCTURAL DETAILS
S4.3	STRUCTURAL DETAILS
S4.4	STRUCTURAL DETAILS
S5.1	STRUCTURAL DETAILS
S5.2	STRUCTURAL DETAILS
P1.1	PLUMBING PLAN
P2.1	PLUMBING SCHEDULE
M1.1	MECHANICAL PLAN
FP-1	FIRE PROTECTION SITE PLAN
FP-2	FIRE PROTECTION WATER SUPPLY
E001	SYMBOLS, ABBREVIATIONS, AND NOTES
EL101	LIGHTING PLAN
EL701	LIGHT FIXTURE SCHEDULES AND CONTROLS
EP101	POWER PLAN
EP401	ENLARGED POWER PLANS
EP601	PANEL SCHEDULE
EP701	SINGLE LINE DIAGRAM
ES101	ELECTRICAL SITE PLAN
EY101	SPECIAL SYSTEMS PLAN

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
 Preliminary Plans



PROJECT NO:
23.21.00

DATE:
JULY 2024

REVISION SCHEDULE:

#	DATE	DESCRIPTION	ISSUED TO

DRAWN BY: JCG
 CHECKED BY: CDA

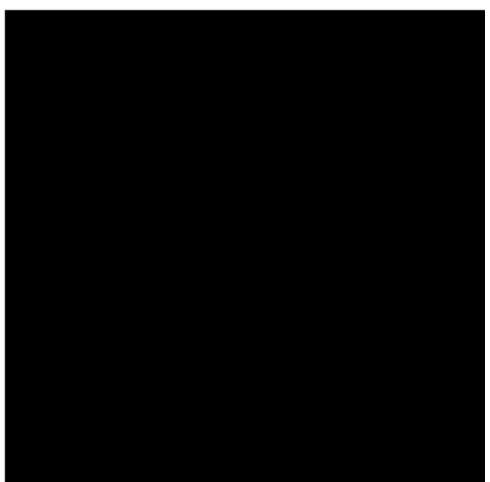
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General Information

T2.0

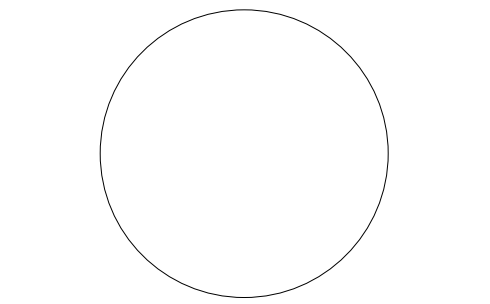


Breckenridge
g r o u p
a r c h i t e c t s
p l a n n e r s

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

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

Preliminary Plans



PROJECT NO:
23.21.00
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#	DATE	DESCRIPTION	ISSUED TO

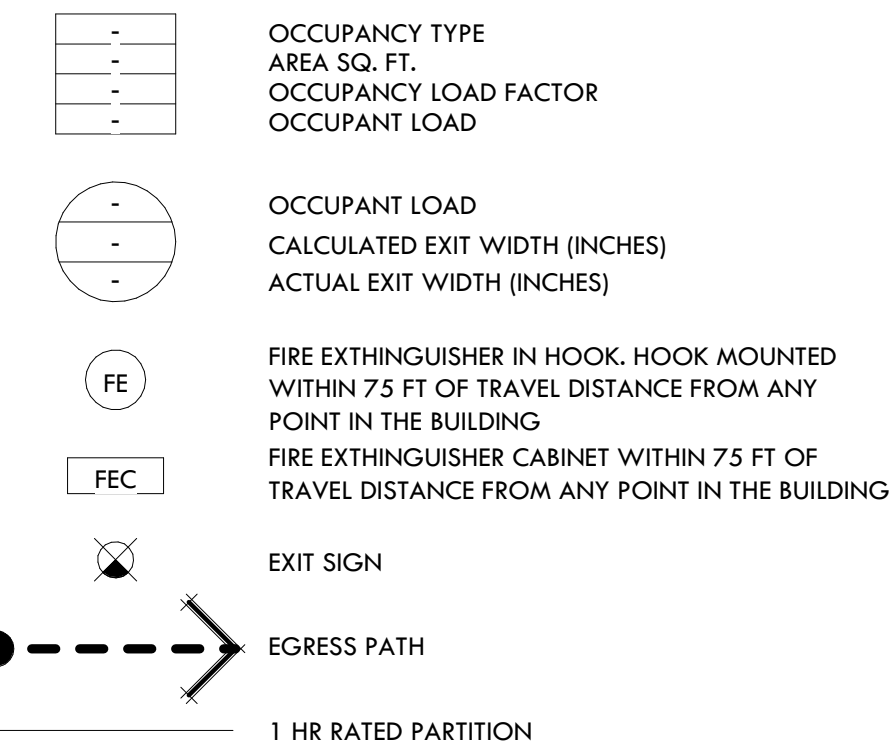
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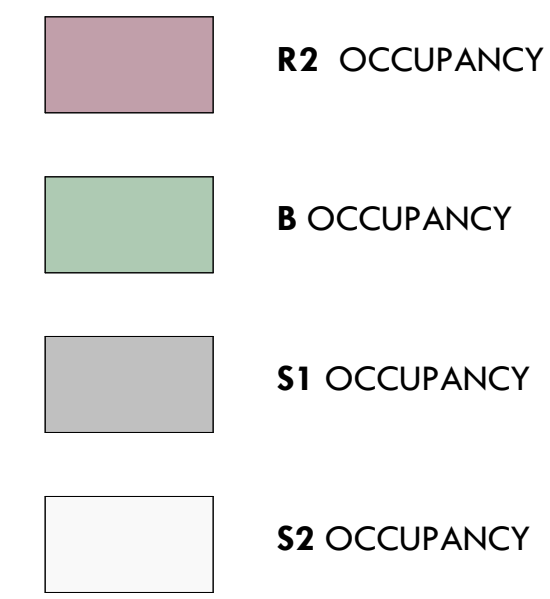
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Code Check
Egress Plan
T3.0

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

PROVIDED FLOOR AREA RATIO:
THE GROSS SITE AREA DIVIDED BY THE TOTAL BUILDING AREA
150,762.03 / 7,068 SF = 21.33 %

AREA SEPARATION WALLS:
PER IBC TABLE 508.3.3 AREA SEPARATION WALLS NOT REQUIRED.

EXTERIOR WALL AND OPENING PROTECTION:
PER IBC TABLE 604 & SECTION 704

EXTERIOR WALLS BEARING_0
NON BEARING WALLS_0
OPENINGS > 30 FT._0

FIRE-RESISTANCE RATING REQUIREMENTS:
PER IBC TABLE 601

CONSTRUCTION TYPE VB

BEARING WALLS EXTERIOR_0
BEARING WALLS INTERIOR_0
NON-BEARING WALLS EXTERIOR_0
NON-BEARING WALLS INTERIOR_0
FLOOR CONSTRUCTION_0
ROOF CONSTRUCTION_0

FIRE PROTECTION SYSTEM:
AUTOMATIC SPRINKLER SYSTEM TYPE PER IBC CHAPTER 9
FULLY SPRINKLERED

SMOKE AND HEAT VENT:
TYPE PER IBC SECTION 910, NONE REQUIRED

CURTAIN BOARDS/ DRAFT STOPPINGS:
TYPE PER IBC SECTION 717.3, NONE REQUIRED

EXIT REQUIREMENTS:
PER IBC TABLE 1004.1.1 & SECTION 1015

AREA	SQ. FT.	OCCUPANCY	LOAD	OCCUPANCY	# EXIST REQ'D.
LIVING	4,205	100	42	1	1
BAYS	2,863	300	10	1	1
TOTAL	7,068 SF	52	OCCUPANTS		

EXITING REQUIREMENTS:
REQUIRED 0.20 / OCCUPANT

PLUMBING FIXTURE REQUIREMENTS:

OCC GROUP	TOTAL	OCC. LAVATORIES	WATER CL.	D.F.	SERV. SINK
B, R2, S2, S1	52	M(1/25)	F(1/25)	M(1/40)	F(1/40)

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

CORRIDOR FIRE RESISTANCE RATING:
TABLE 1016.1, NON-REQUIRED

PROJECT:
TUBAC FIRE STATION NO.1

ADDRESS:
TUBAC FIRE DISTRICT
2227 E. FRONTAGE ROAD
TUBAC, AZ 85646

GOVERNING MUNICIPALITY:
SANTA CRUZ COUNTY

APPLICABLE CODES:
REFER TO

PROJECT DESCRIPTION:
NEW FIRE STATION

BUILDING OCCUPANCY: B

OCCUPANCY SEPARATION:
SEPARATION WALLS ARE NOT REQUIRED

BUILDING HEIGHT:
ALLOWABLE 2 STORIES
ACTUAL 1 STORY, 26 FT. HT.

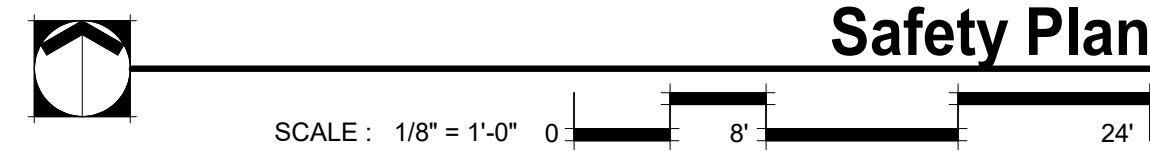
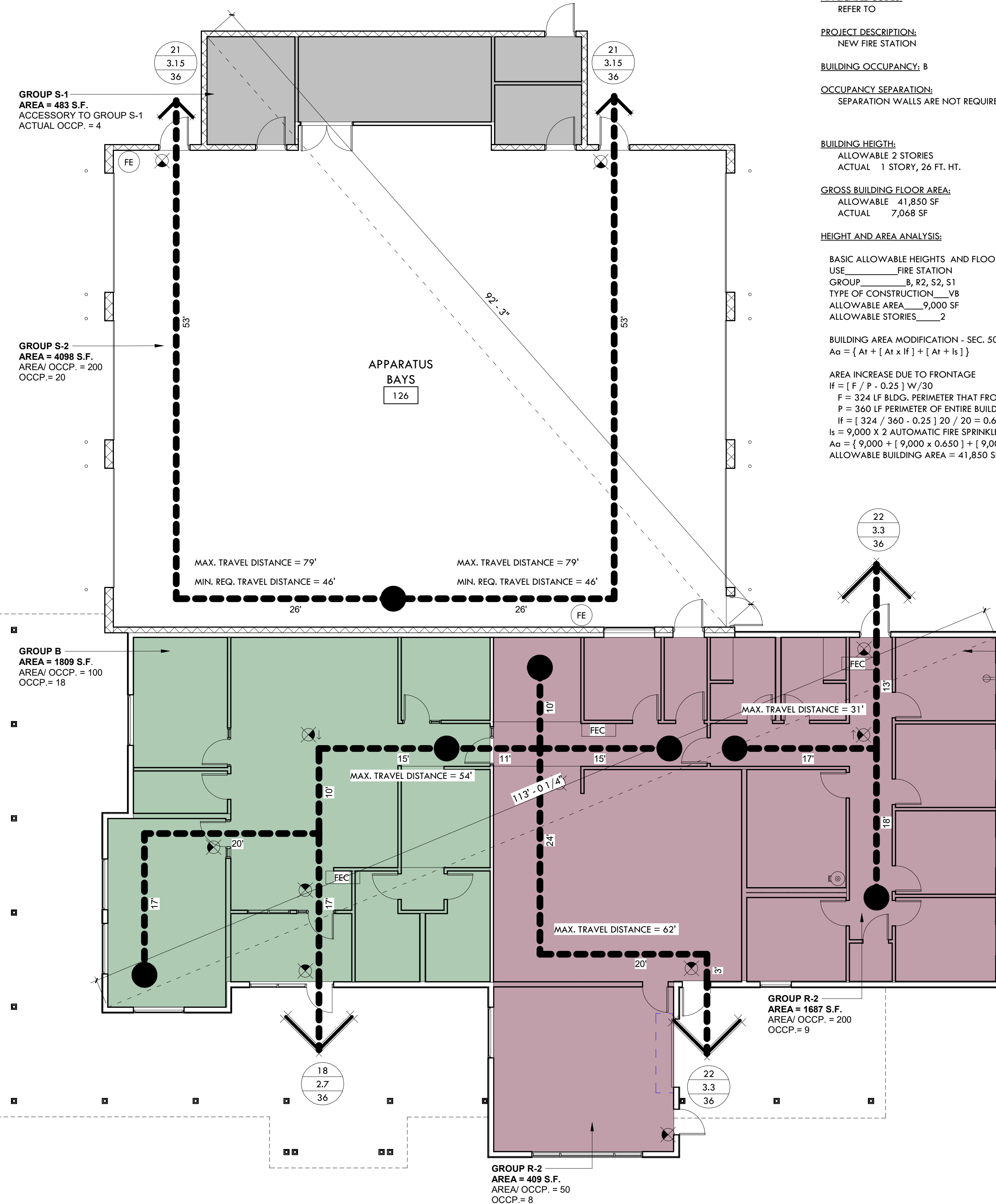
GROSS BUILDING FLOOR AREA:
ALLOWABLE 41,850 SF
ACTUAL 7,068 SF

HEIGHT AND AREA ANALYSIS:

BASIC ALLOWABLE HEIGHTS AND FLOOR AREA - TABLE 503
USE _____ FIRE STATION
GROUP _____ B, R2, S2, S1
TYPE OF CONSTRUCTION _____ VB
ALLOWABLE AREA _____ 9,000 SF
ALLOWABLE STORIES _____ 2

BUILDING AREA MODIFICATION - SEC. 506
 $A_a = \{ A_t + [A_t \times I_f] + [A_t + I_s] \}$

AREA INCREASE DUE TO FRONTAGE
 $I_f = [F / P - 0.25] W / 30$
 $F = 324$ LF BLDG. PERIMETER THAT FRONTS 20 FT OPEN SPACE
 $P = 360$ LF PERIMETER OF ENTIRE BUILDING
 $I_f = [324 / 360 - 0.25] 20 / 20 = 0.650$
 $I_s = 9,000 \times 2$ AUTOMATIC FIRE SPRINKLER INCREASE
 $A_a = \{ 9,000 + [9,000 \times 0.650] + [9,000 + 18,000] \}$
ALLOWABLE BUILDING AREA = 41,850 SF



Project Code Data

Code Summary Table			
DESCRIPTION	IBC 2012 SECTION	IBC 2012 REQUIREMENTS	PROVIDED
BUILDING HEIGHT AND AREA LIMITATIONS	SECTION 503, TABLE 503		
FIRESTATION BUILDING			
TYPE OF CONSTRUCTION	VB		
TUBULAR BUILDING AREA	9,000		
BUILDING HEIGHT	2- STORY		
BUILDING AREA MODIFICATIONS	SECTION 506		
BUILDING AREAS SHALL BE PERMITTED TO BE INCREASED DUE TO FRONTAGE & AUTOMATIC SPRINKLER PROTECTION	$A_a = \{ A_t + [A_t \times I_f] + [A_t \times I_s] \}$ A _a = ALLOWABLE AREA A _a = ALLOWABLE BUILDING AREA A _t = TUBULAR BUILDING AREA / STORY I _f = AREA INCREASE FACTOR DUE TO FRONTAGE I _s = 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	
FIRE- RESISTANCE RATING REQUIREMENTS FOR BUILDING ELEMENTS	SECTION 601, TABLE 601 CONSTRUCTION TYPE VB	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	
MAXIMUM AREA OF EXTERIOR WALL OPENING BASED ON THE FIRE SEPARATION DISTANCE	SECTION 705, TABLE 705.8	NO LIMIT	
VERTICAL SEPARATION OF OPENINGS	SECTION 705.8.5	THIS SECTION DOES NOT APPLY TO BUILDINGS THAT ARE THREE STORIES OR LESS ABOVE GRADE	
SHAFT ENCLOSURES	SECTION 713.4 FIRE RESISTANCE RATED	1 HR WHERE CONNECTING LESS THAN FOUR STORIES	
AUTOMATIC SYSTEM	SECTION 903.2.3	NOT REQUIRED	
MINIMUM STAIR WIDTH	TABLE 1005.3.1	0.2 INCH X OCCUPANT	
REQUIRED CAPACITY BASED ON OCCUPANCY LOAD	TABLE 1005.3.1	0.2 INCH X OCCUPANT	
MINIMUM DOOR WIDTH	TABLE 1005.3.2	0.15 INCH PER OCCUPANT	
MAXIMUM TRAVEL DISTANCE BEFORE COMMON PATH OF AGRESS	TABLE 1014.3	100 FEET	
EXIT TRAVEL DISTANCE	TABLE 1016.2	250 FEET	
CORRIDOR FIRE- RESISTANCE RATING	TABLE 1018.1	WITH SPRINKLER SYSTEM 0.5	
MINIMUM CORRIDOR WIDTH	TABLE 1018.2	44 INCHES MECHANICAL, PLUMBING, ELECTRICAL= 24 INCHES	
DEAD END CORRIDORS	TABLE 1018.4	NOT EXCEED 50 FEET	

Occupancy Loads

Occupancy Schedule				
Number	BUILDING Name	AREA	OCCUPANCY (65 TOTAL)	LOAD FACTOR
			IBC 2012 Chapter 3	IBC 2012 Table 1004.1.2
101	LOBBY	114 SF	1	100
102	OPEN OFFICE	655 SF	7	100
103	CONFERENCE ROOM	307 SF	3	100
104	IT/ ELECT.	55 SF	1	100
105	FIRE CHIEF	169 SF	2	100
106	ASSISTANT CHIEF	101 SF	1	100
107	BREAK	122 SF	1	100
108	WOMEN'S	86 SF	1	100
109	MEN'S	86 SF	1	100
110	F.F STUDY	102 SF	1	200
112	KITCHEN/ DAYROOM	729 SF	3	200
113	FITNESS	409 SF	8	50
114	OFFICE	88 SF	1	100
115	AIRLOCK	49 SF	0	200
116	SHOWER	73 SF	1	200
117	SHOWER	73 SF	1	200
118	HALL	260 SF	1	200
119	DORM	115 SF	1	50
120	DORM	115 SF	1	50
121	DORM	115 SF	1	50
122	DORM	116 SF	1	50
123	JAN.	23 SF	0	200
124	DORM	115 SF	1	50
125	MECH. ROOM	162 SF	1	200
126	APPARATUS BAYS	4098 SF	20	200
127	GENERAL STORAGE	131 SF	1	300
128	TURN-OUT ROOM	227 SF	1	300
129	MED STO.	71 SF	1	300
130	ELECTRIC	54 SF	1	300
131	HALL	128 SF	1	200

Plumbing Fixture Count

Plumbing Fixture Schedule										
Room: Number	Room: Name	Classification	Occupancy	Occupancy Load	WC M	WC F	Lav M	Lav F	Bathtubs/ Showers	Other
107	BREAK	BUSINESS	B	1	0.02	0.02	0.02	0.02	-	1 service sink
108	WOMEN'S	BUSINESS	B	1	0.02	0.02	0.01	0.01	-	1 service sink
109	MEN'S	BUSINESS	B	1	0.02	0.02	0.01	0.01	-	1 service sink
112	KITCHEN/ DAYROOM	RESIDENTIAL	R2	5	1	1	1	1	-	1 service sink
116	SHOWER	RESIDENTIAL	R2	1	1	1	1	1	-	1 service sink
117	SHOWER	RESIDENTIAL	R2	1	1	1	1	1	-	1 service sink
123	JAN.	RESIDENTIAL	R2	0	1	1	1	1	-	1 service sink
126	APPARATUS BAYS	BUSINESS	B	41	0.82	0.82	0.51	0.51	-	1 service sink

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
OCCUPANCY TYPE <th>WC MALE</th> <th>WC FEMALE</th> <th>LAV MALE</th> <th>LAV FEMALE</th> <th>BATHTUBS/ SHOWERS</th> <th>SERVICE SINK</th>	WC MALE	WC FEMALE	LAV MALE	LAV FEMALE	BATHTUBS/ SHOWERS	SERVICE SINK
RESIDENTIAL (R2)	1 PER UNIT	1 PER UNIT	1 PER UNIT	1 PER UNIT	-	1 REQUIRED

* 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

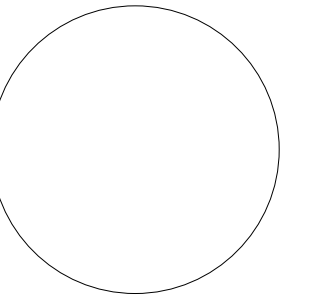


Breckenridge
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1735 e ft. lowell rd. #12
 tucson arizona 85719
 5 2 0 . 8 8 2 . 9 9 4 4

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

Preliminary Plans



PROJECT NO:
 23.21.00
 DATE:
 JULY 2024

#	DATE	DESCRIPTION	ISSUED TO

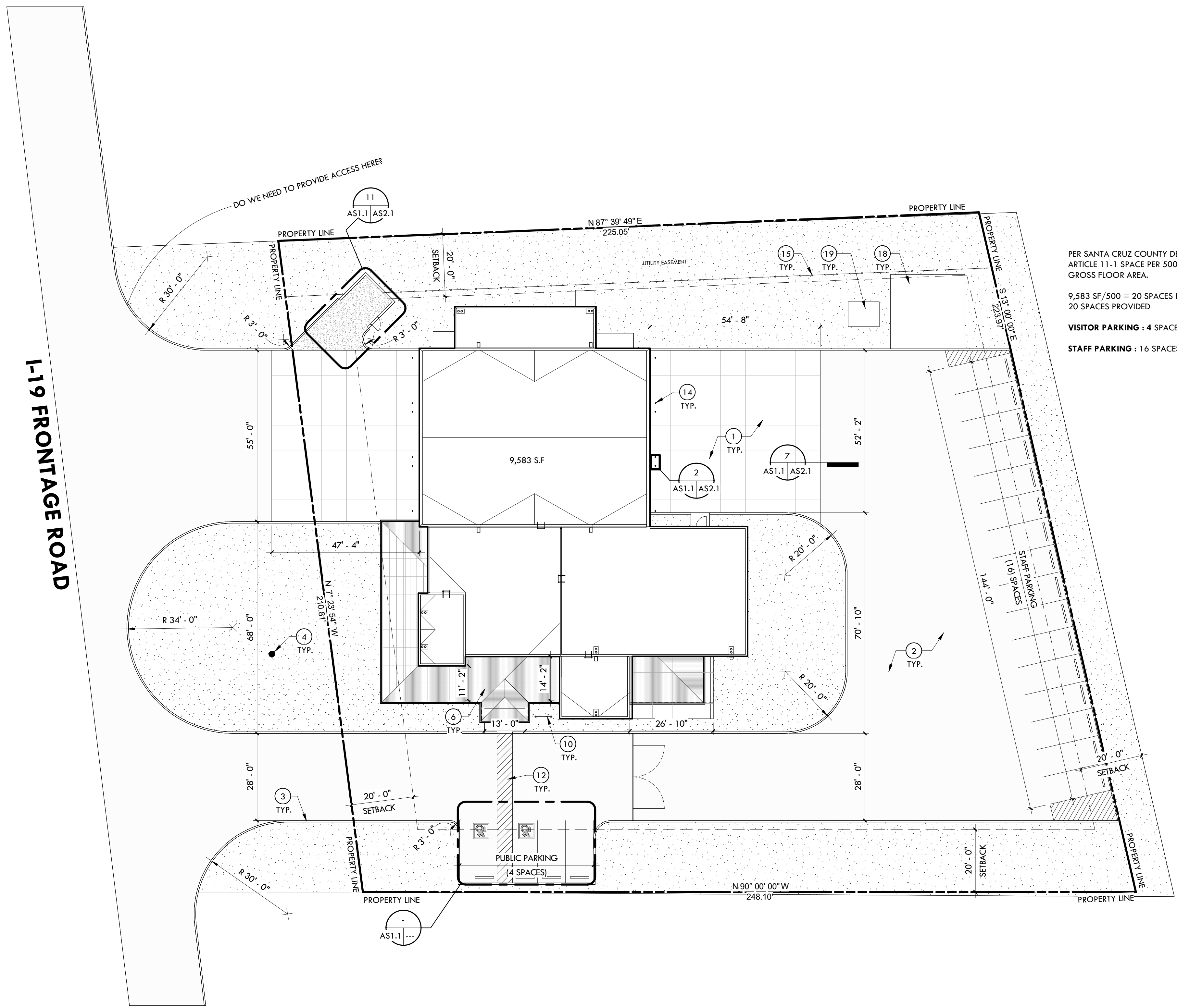
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Code Analysis

T4.0



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

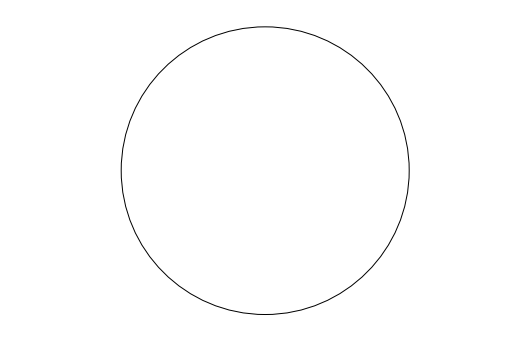
Keynotes

- ① CONCRETE PAVING
- ② ASPHALT PAVING
- ③ CONCRETE CURB
- ④ FIRE HYDRANT
- ⑤ FLAG POLE
- ⑥ CONCRETE SIDEWALK
- ⑦ CONCRETE SPILLWAY
- ⑨ RIP-RAP
- ⑩ BIKE RACK
- 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

Breckenridge
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23.21.00

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REVISION SCHEDULE	#	DATE	DESCRIPTION	ISSUED TO

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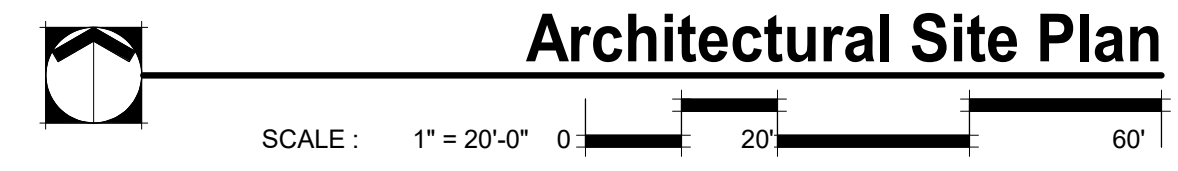
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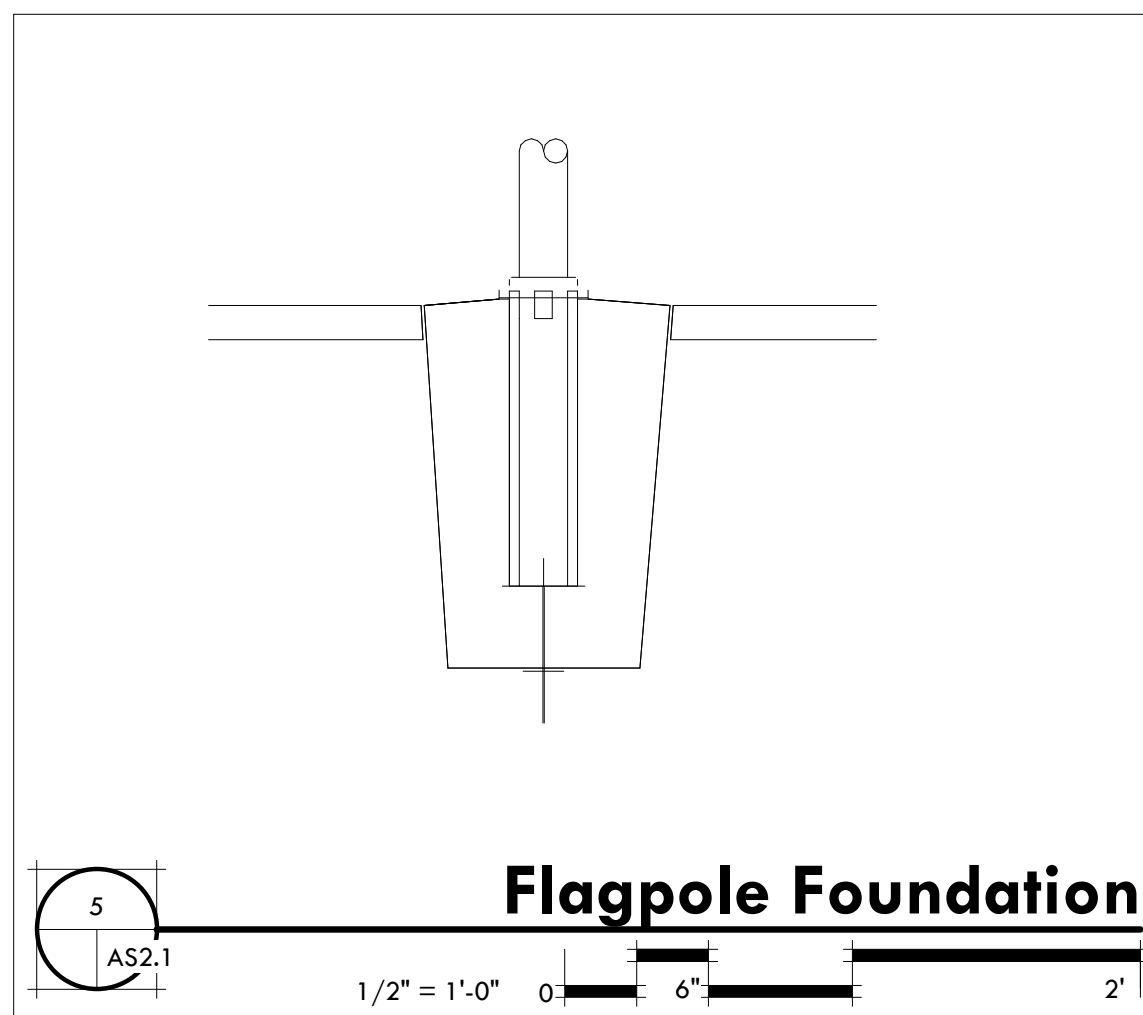
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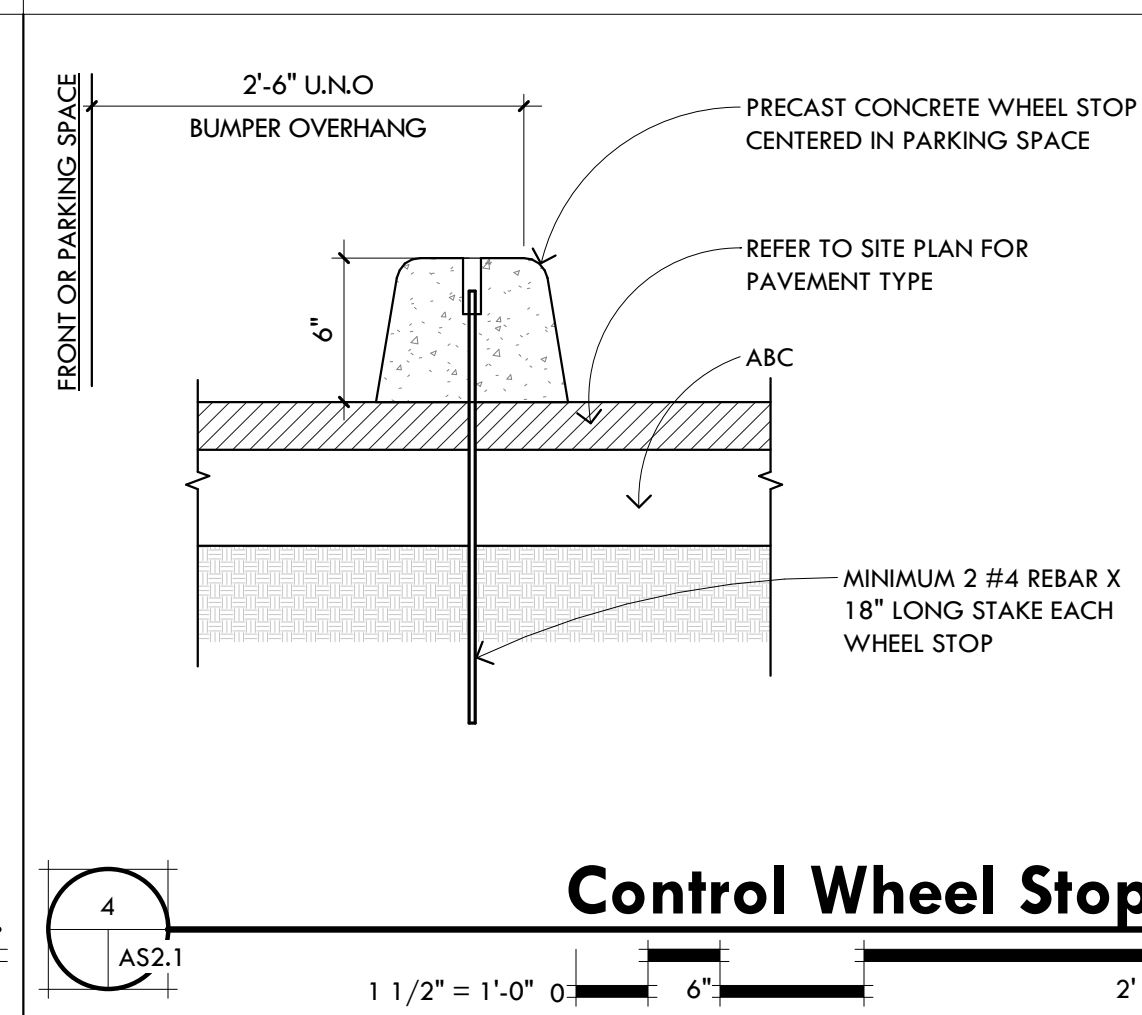
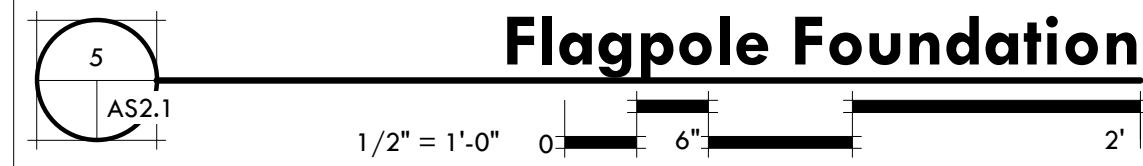
Architectural Site Plan

AS1.1

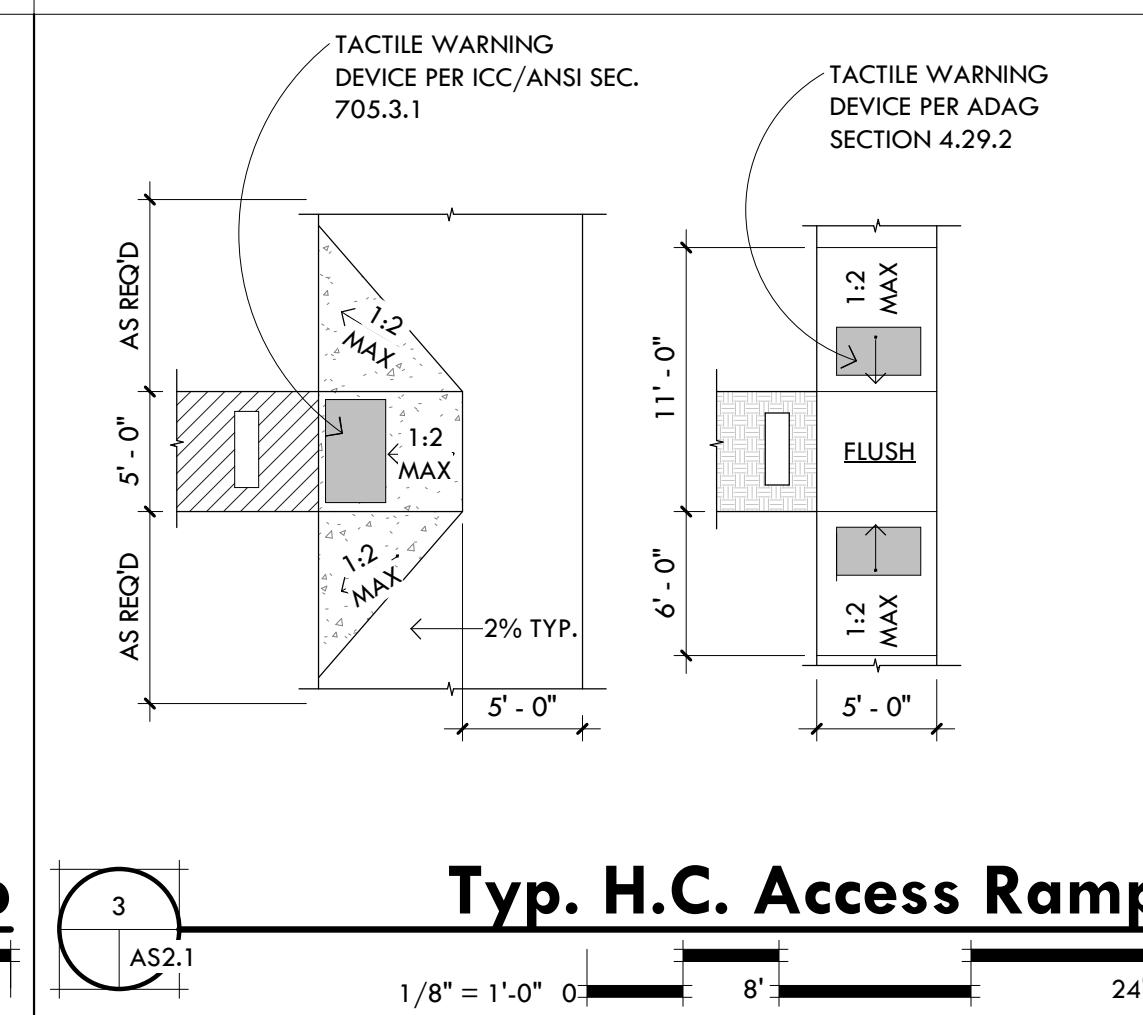
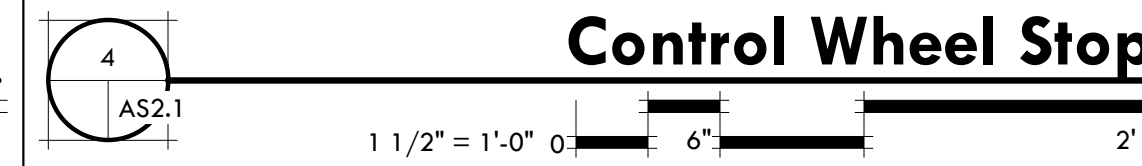




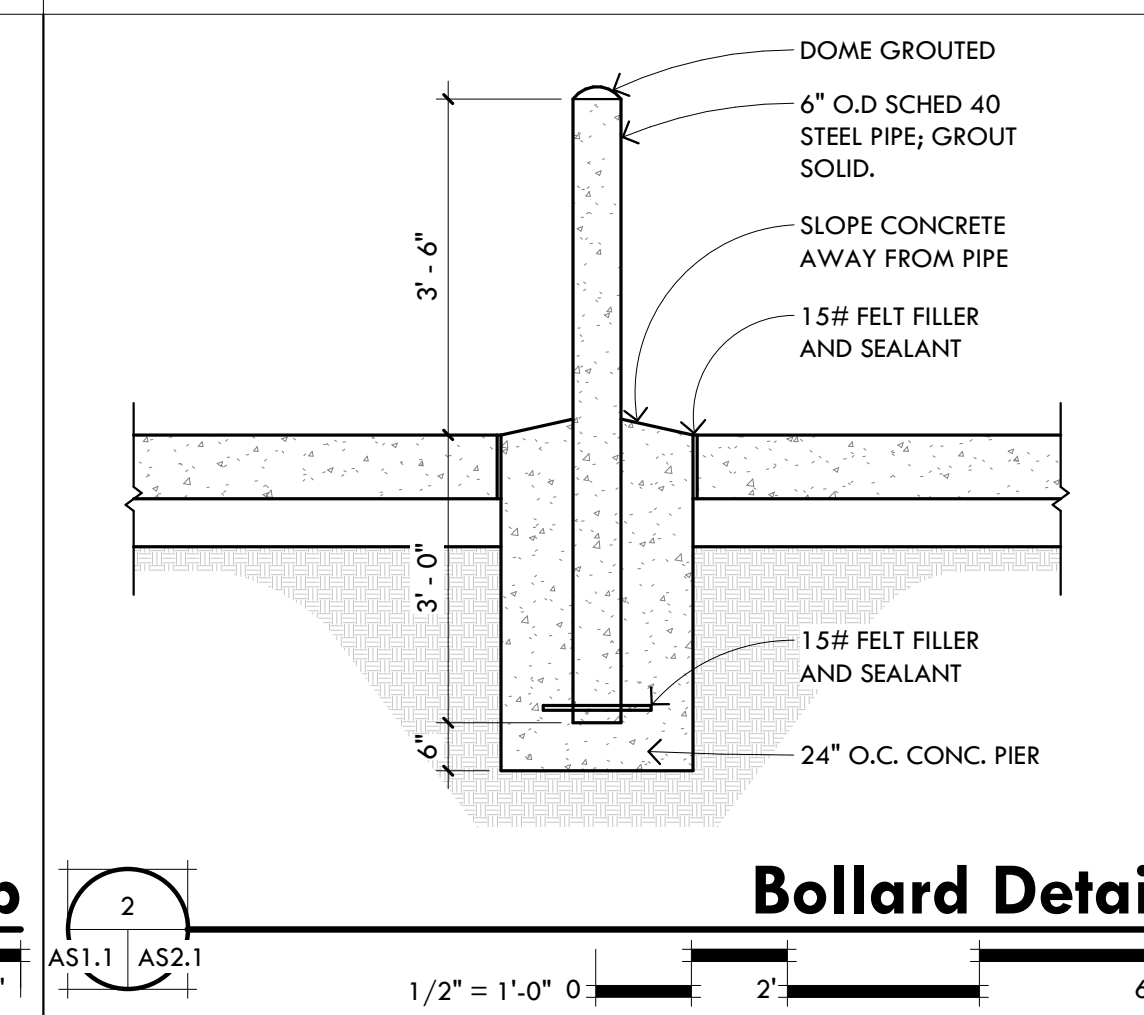
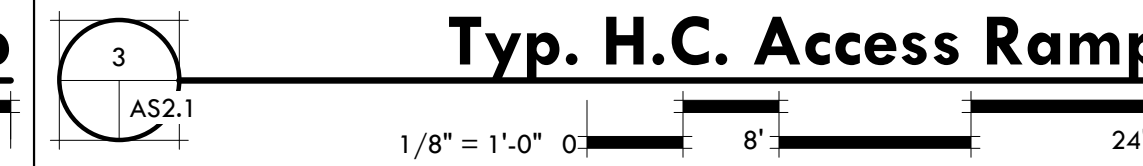
Flagpole Foundation



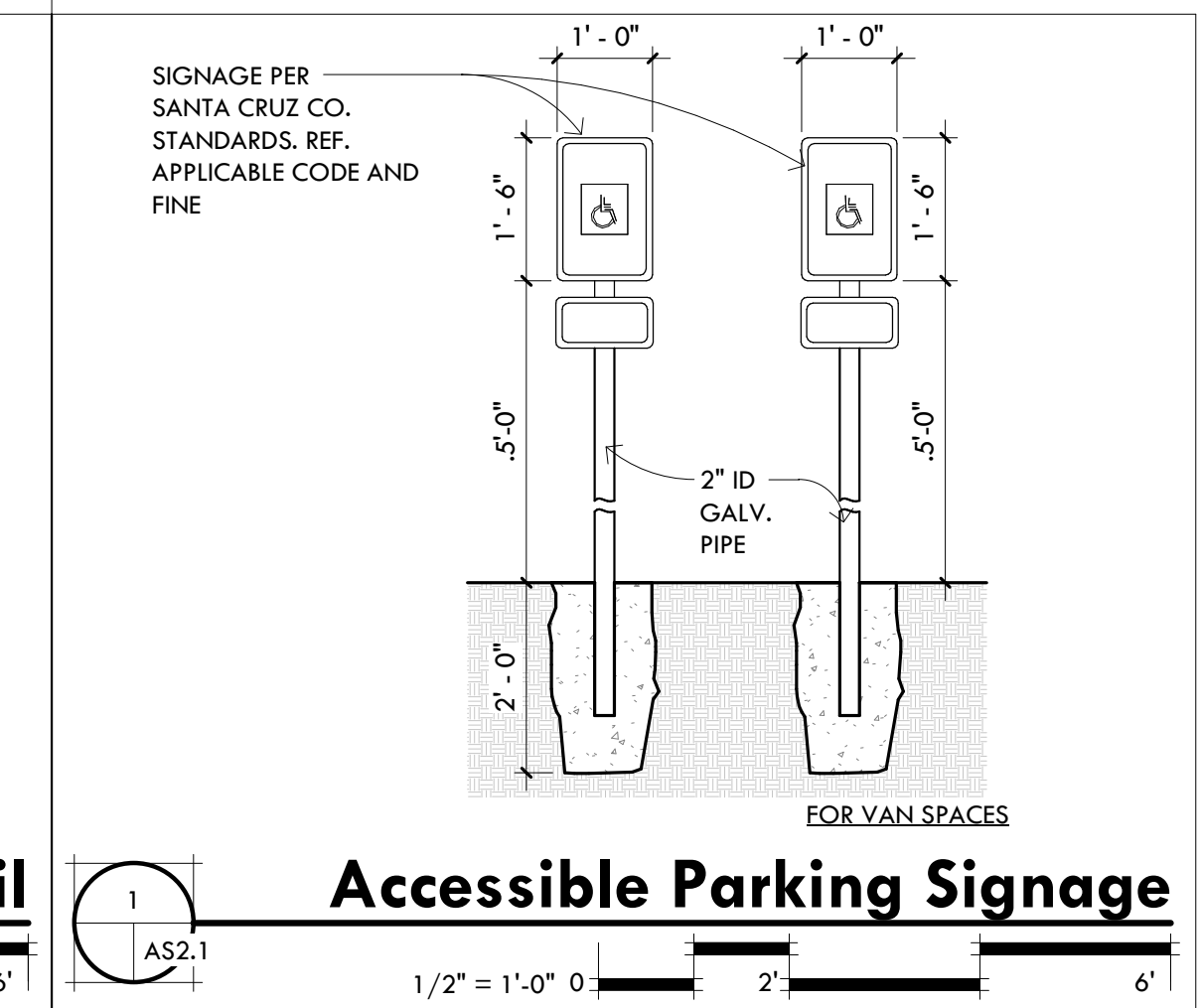
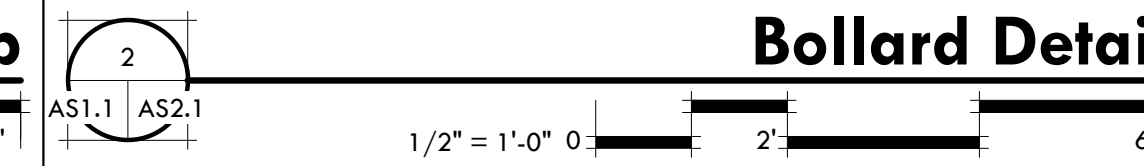
Control Wheel Stop



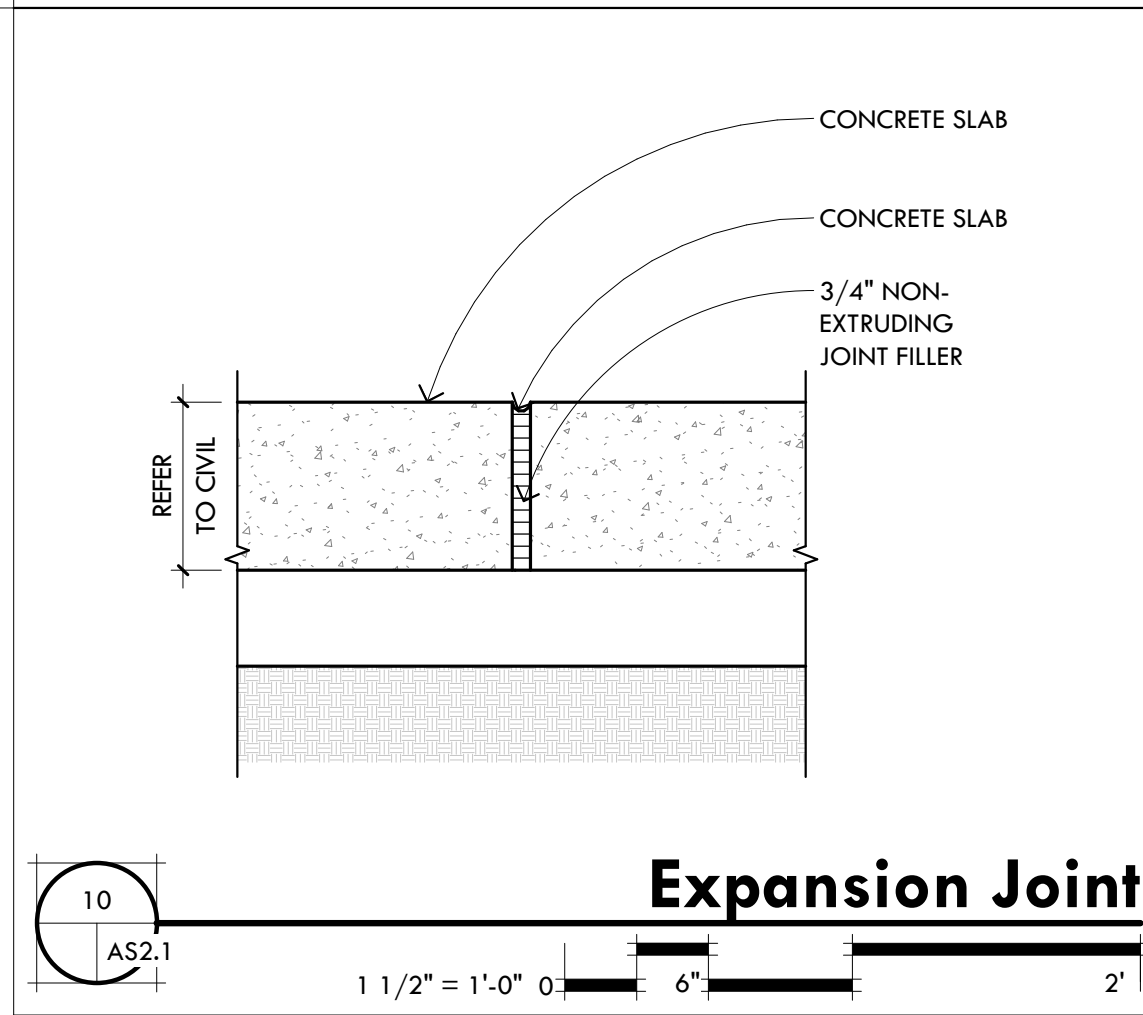
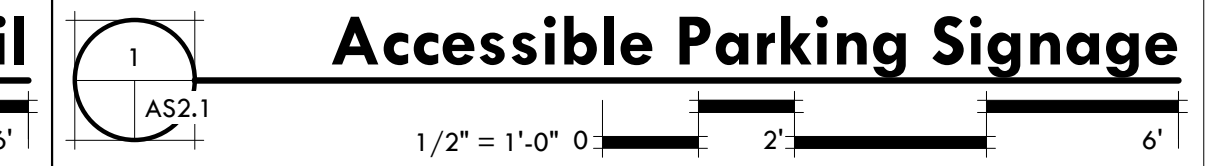
Typ. H.C. Access Ramp



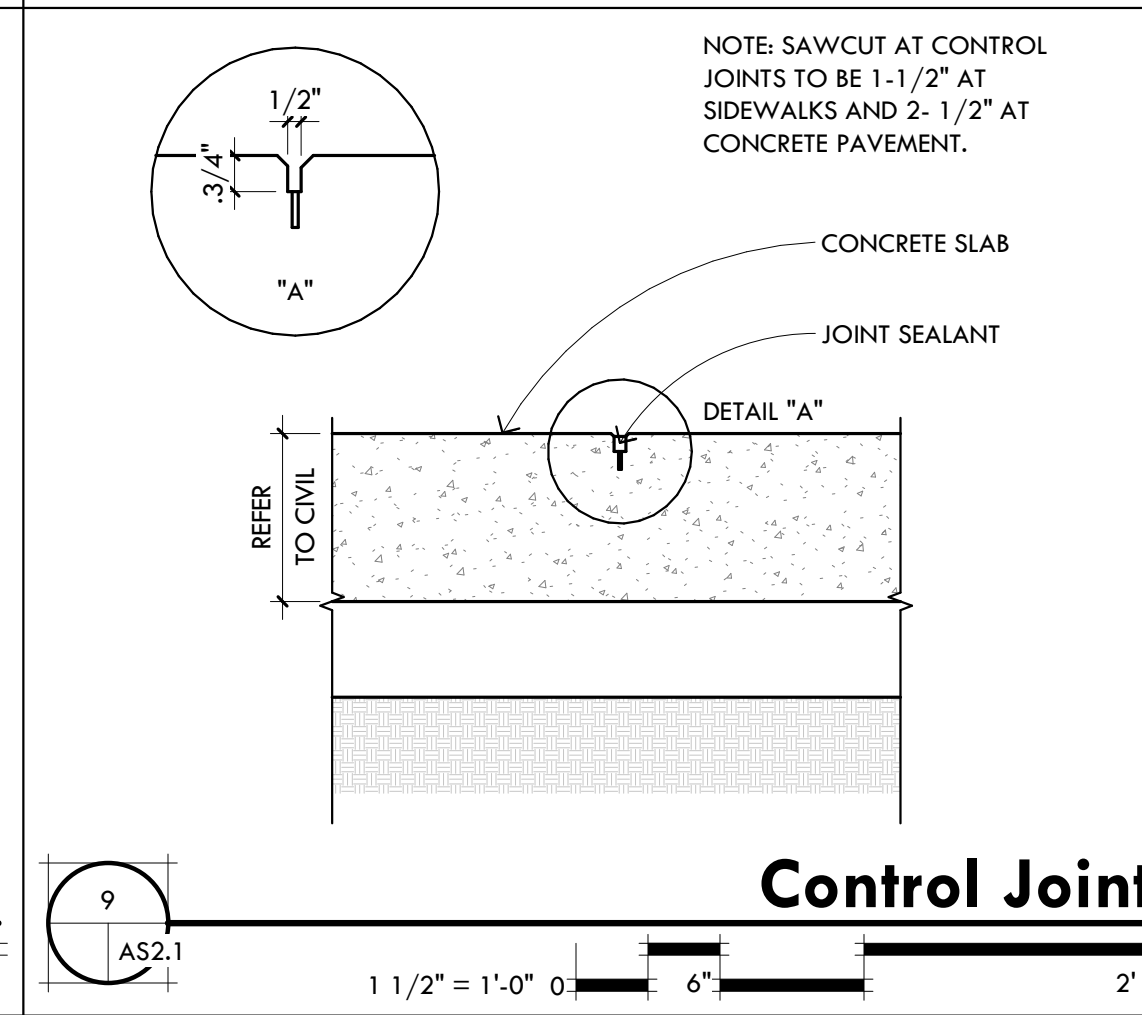
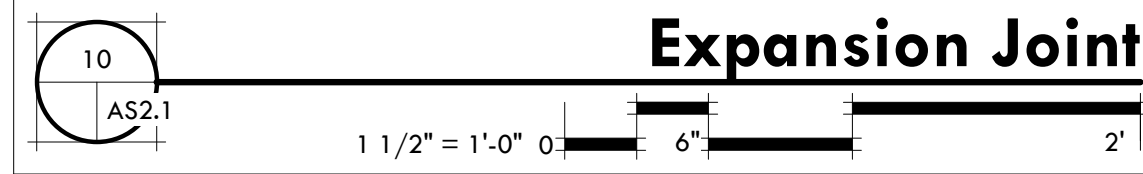
Bollard Detail



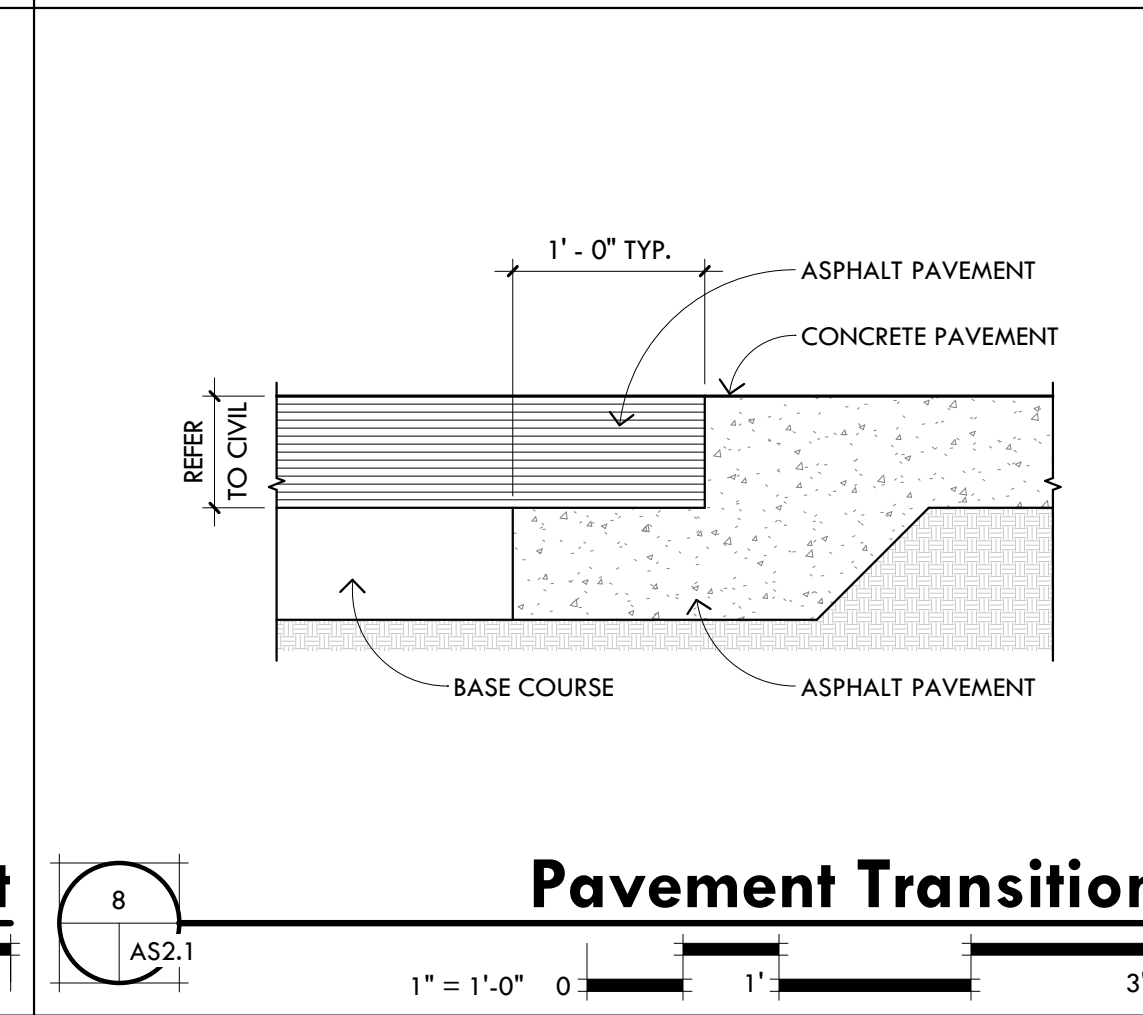
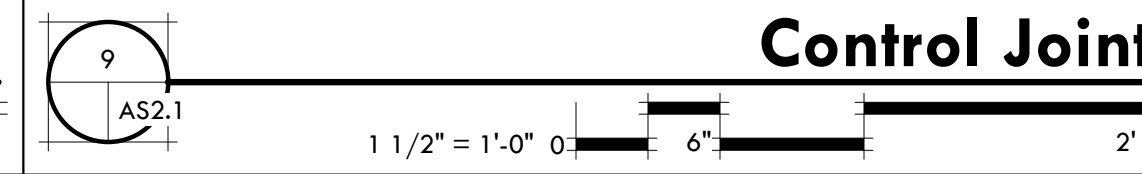
Accessible Parking Signage



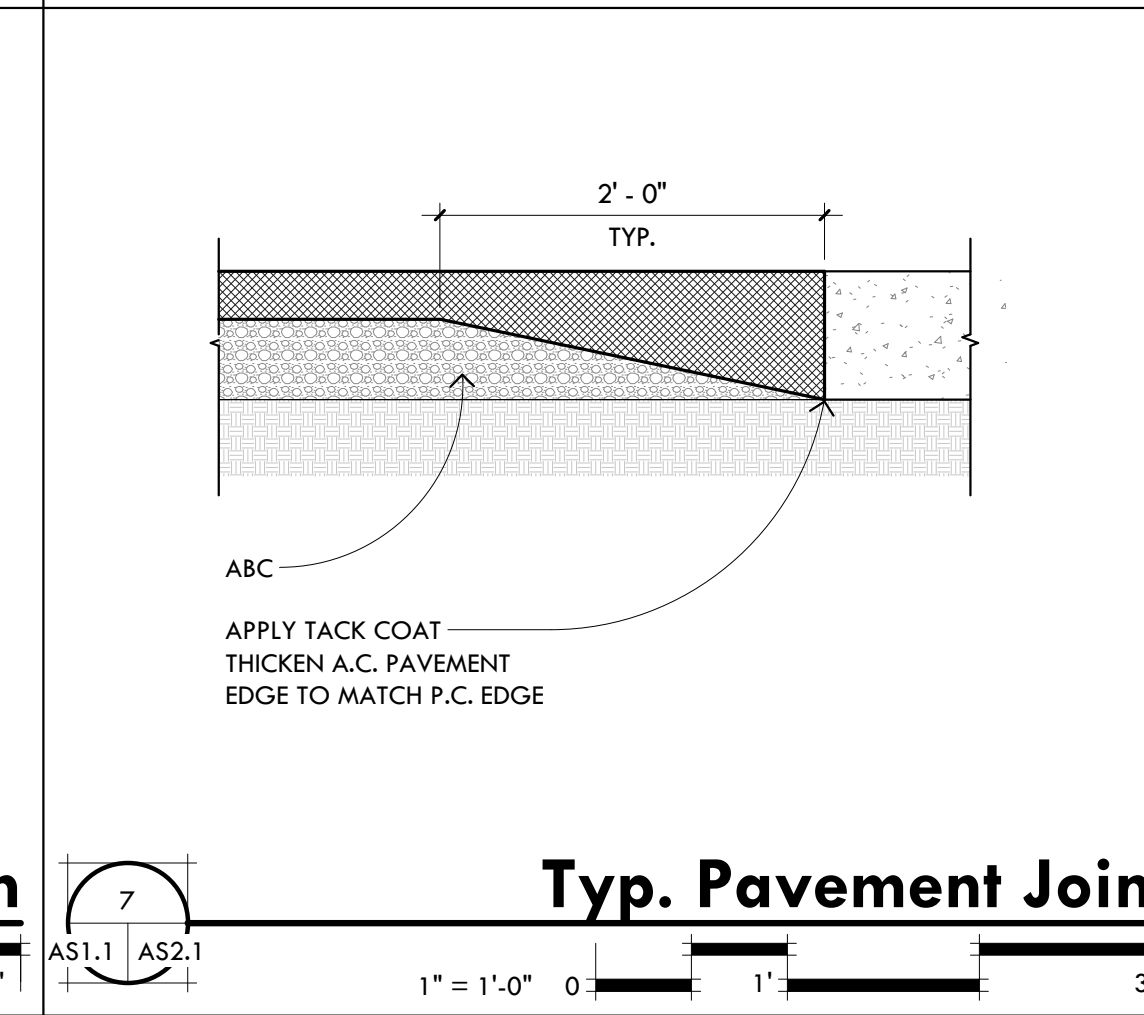
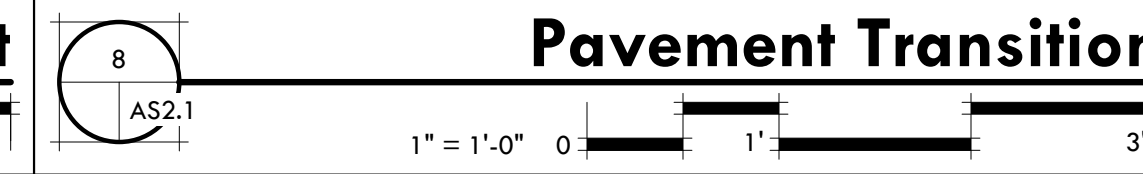
Expansion Joint



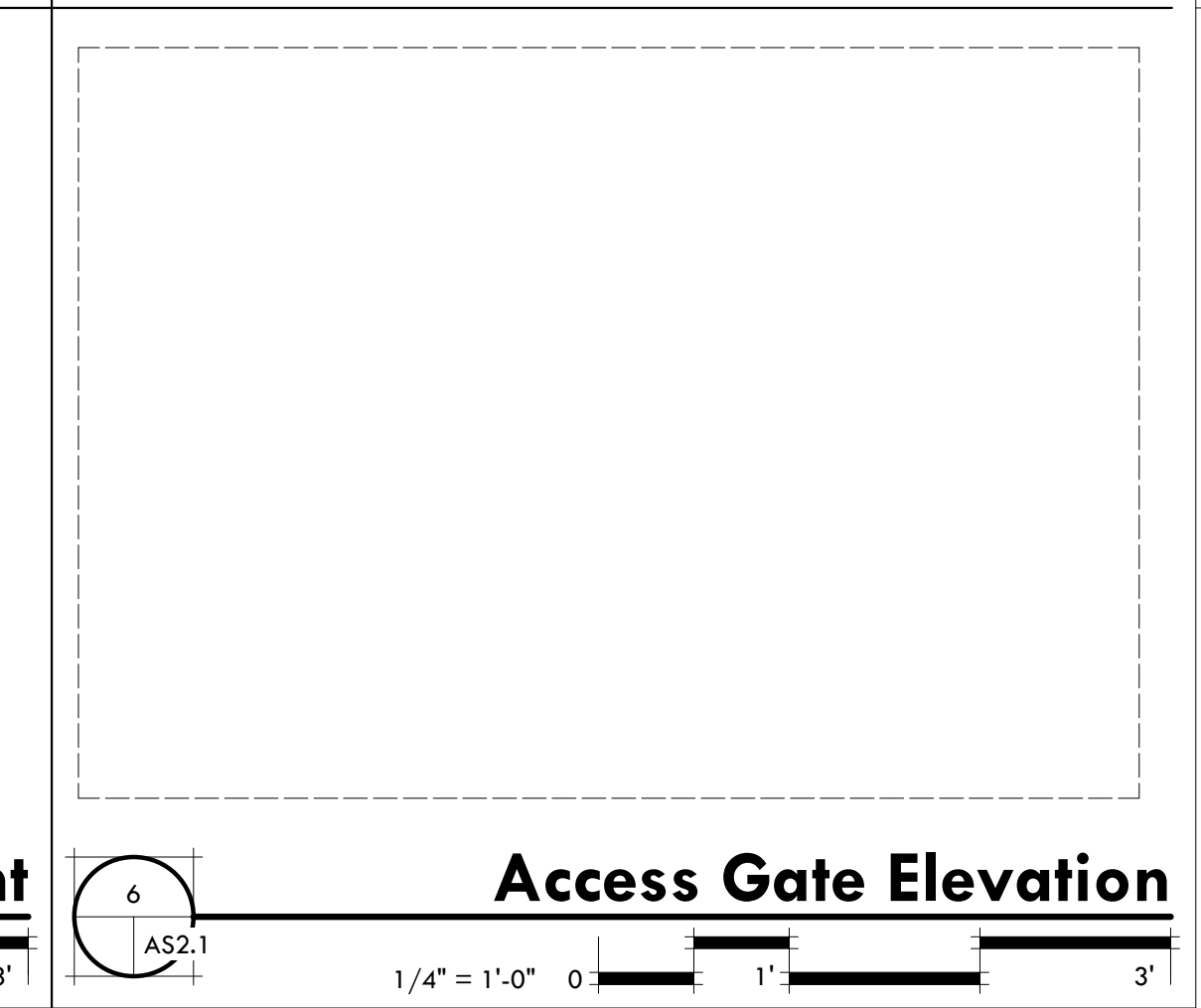
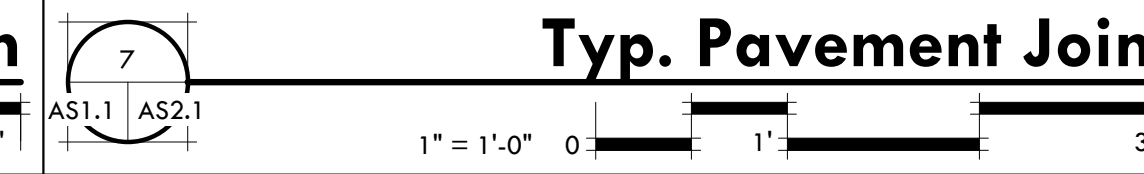
Control Joint



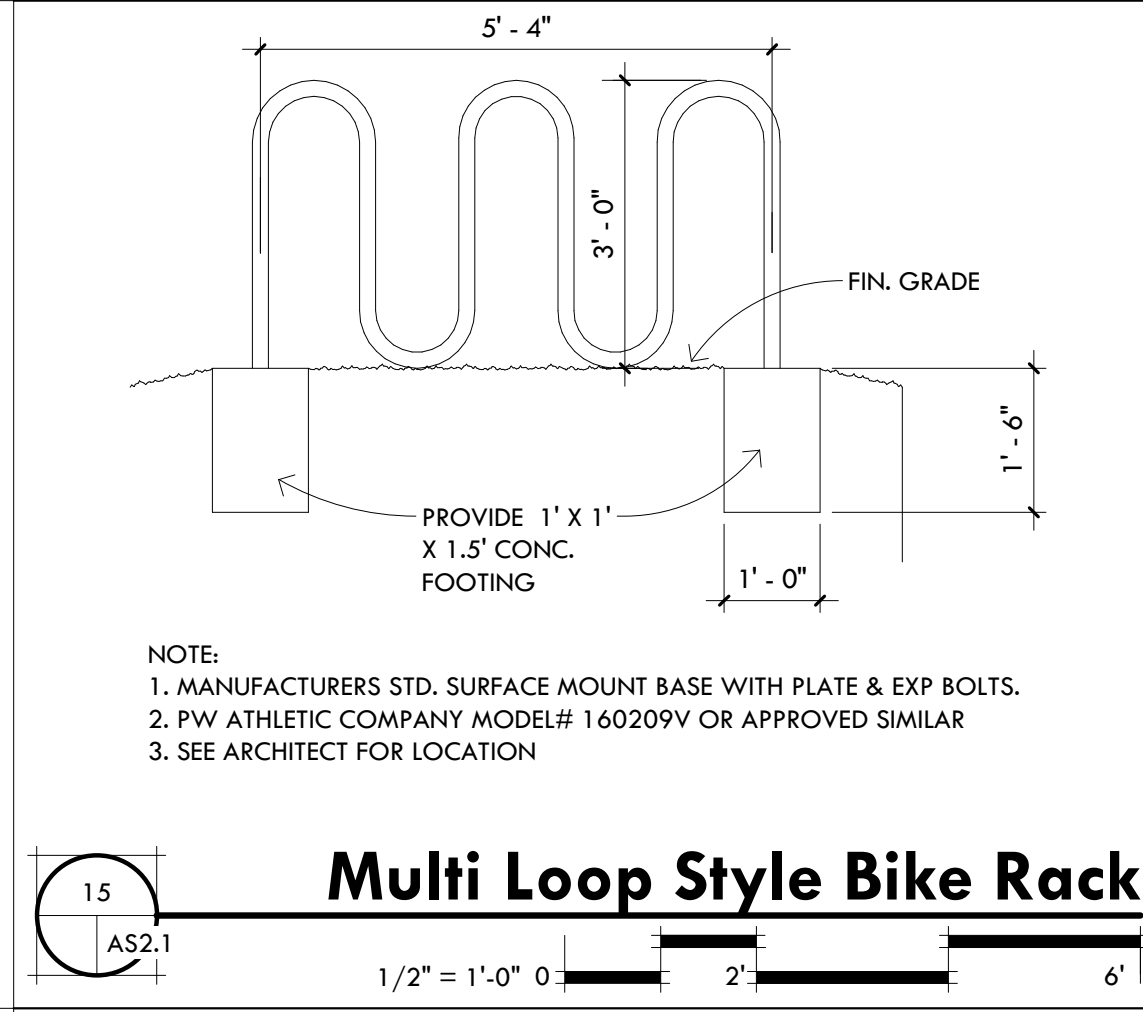
Pavement Transition



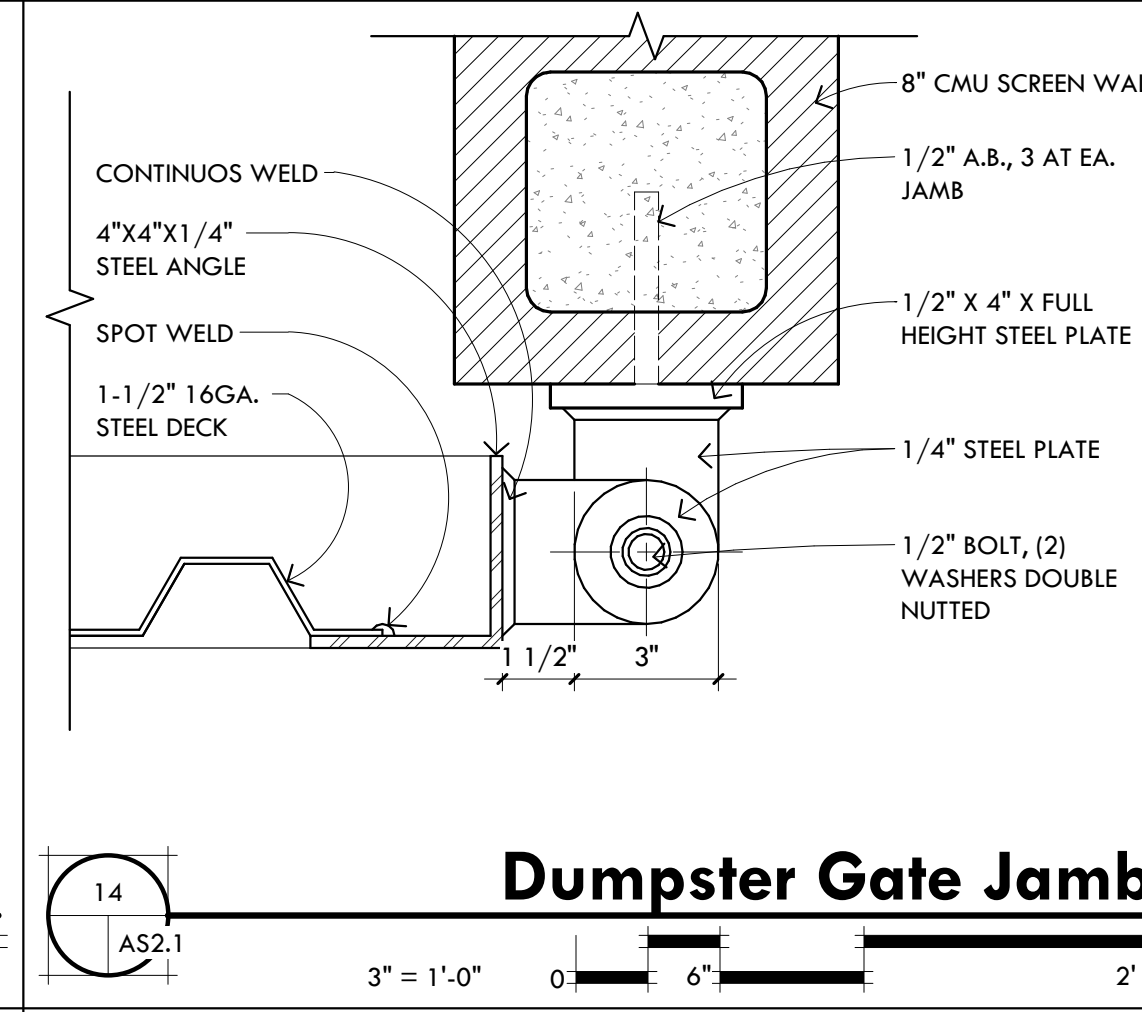
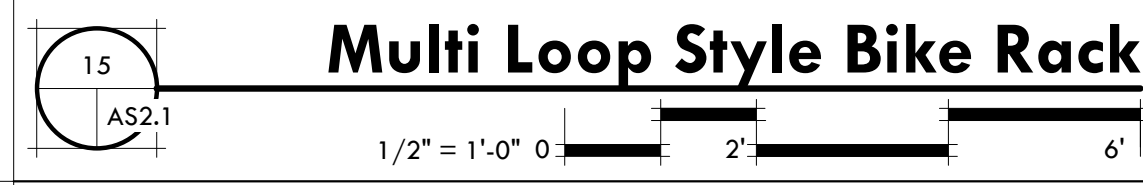
Typ. Pavement Joint



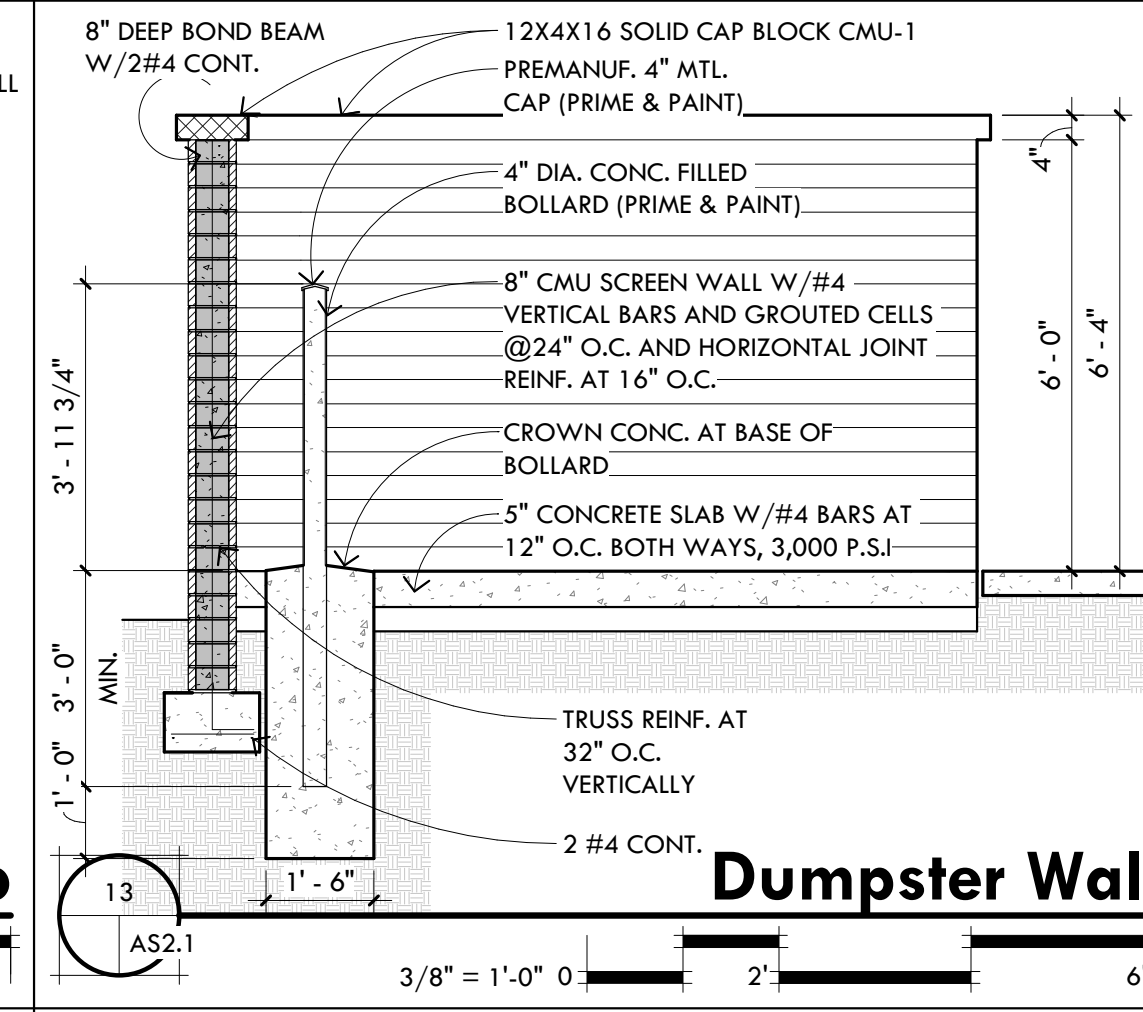
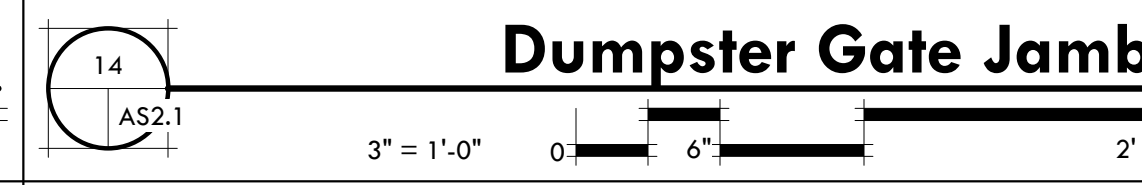
Access Gate Elevation



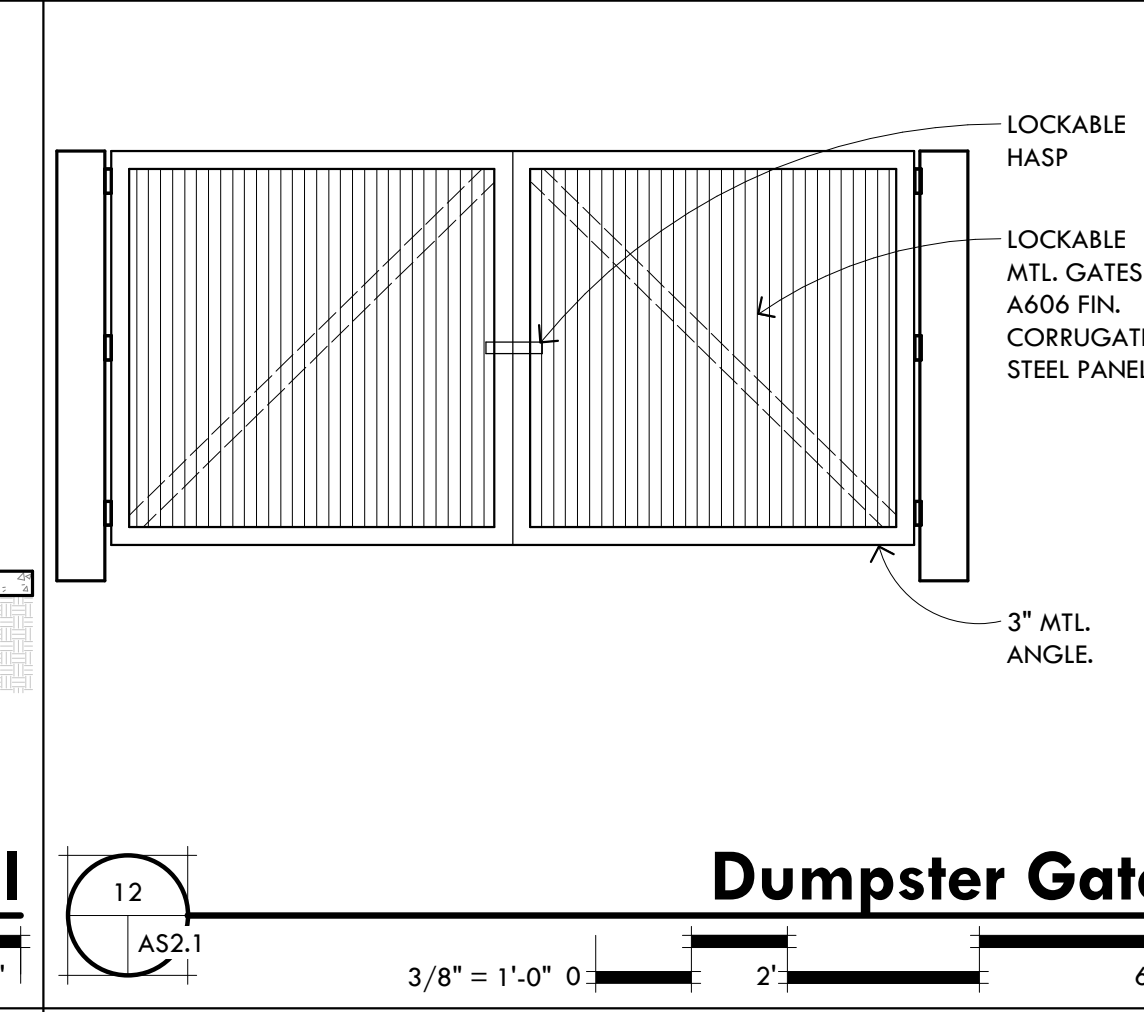
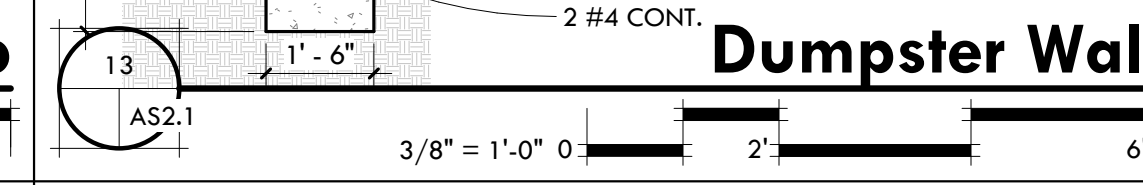
Multi Loop Style Bike Rack



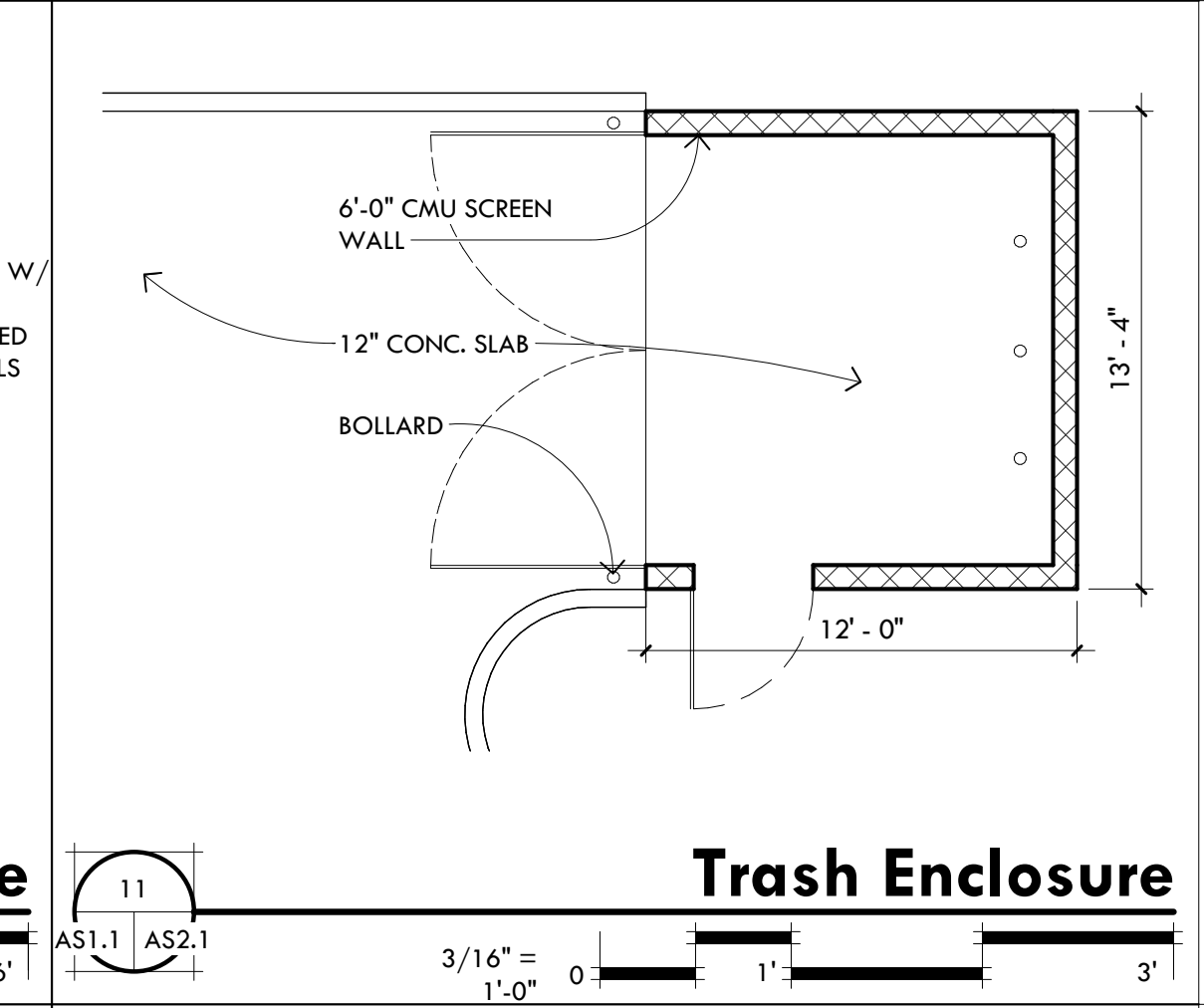
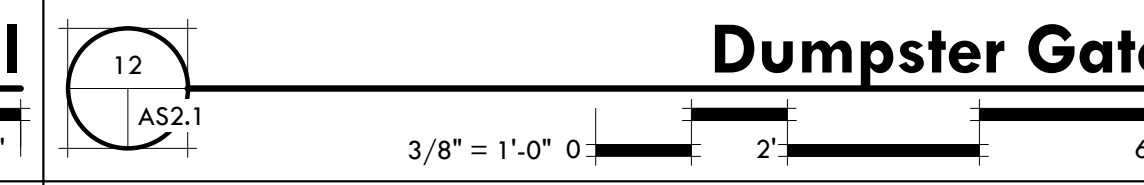
Dumpster Gate Jamb



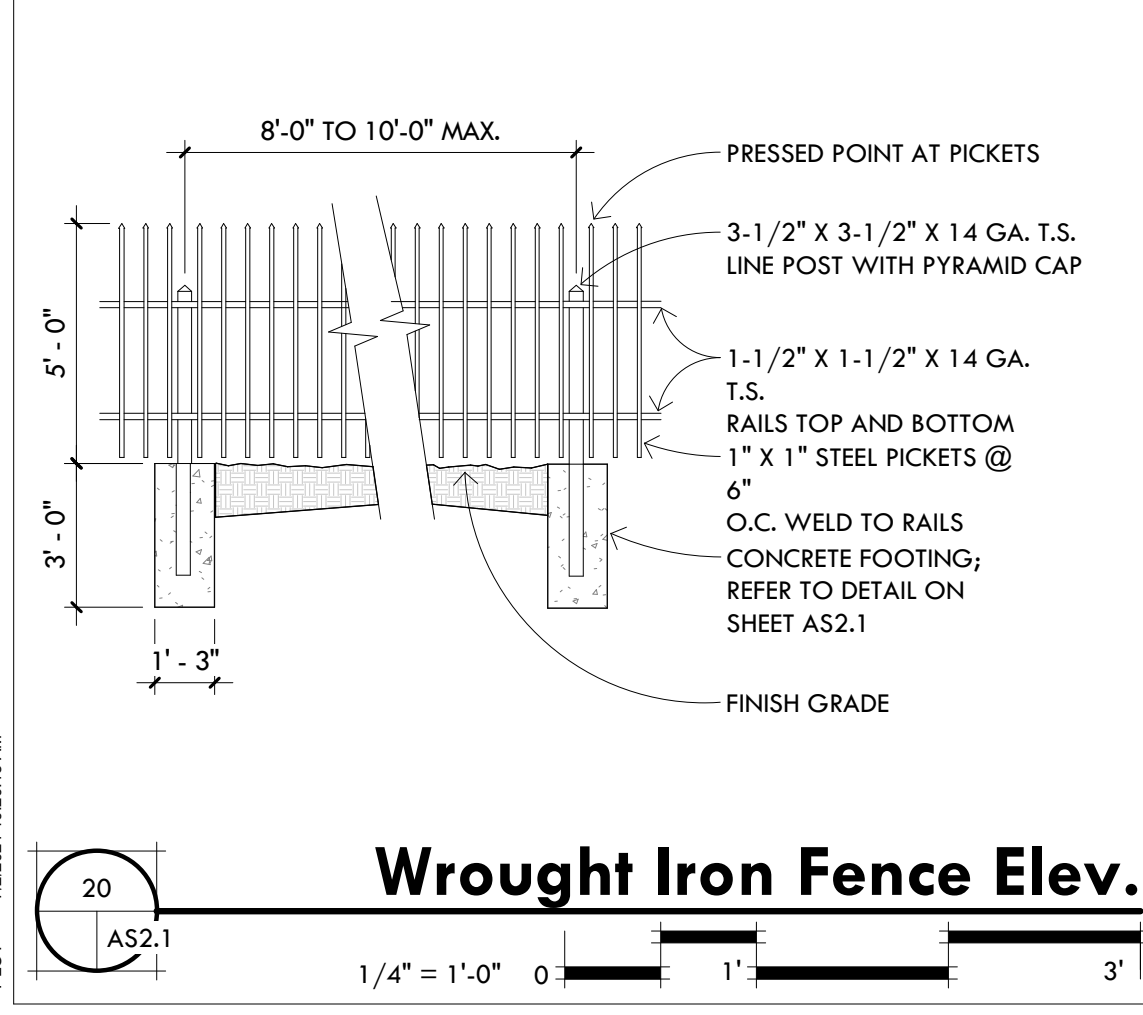
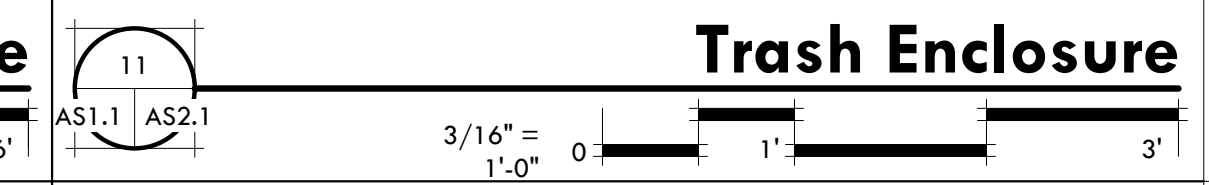
Dumpster Wall



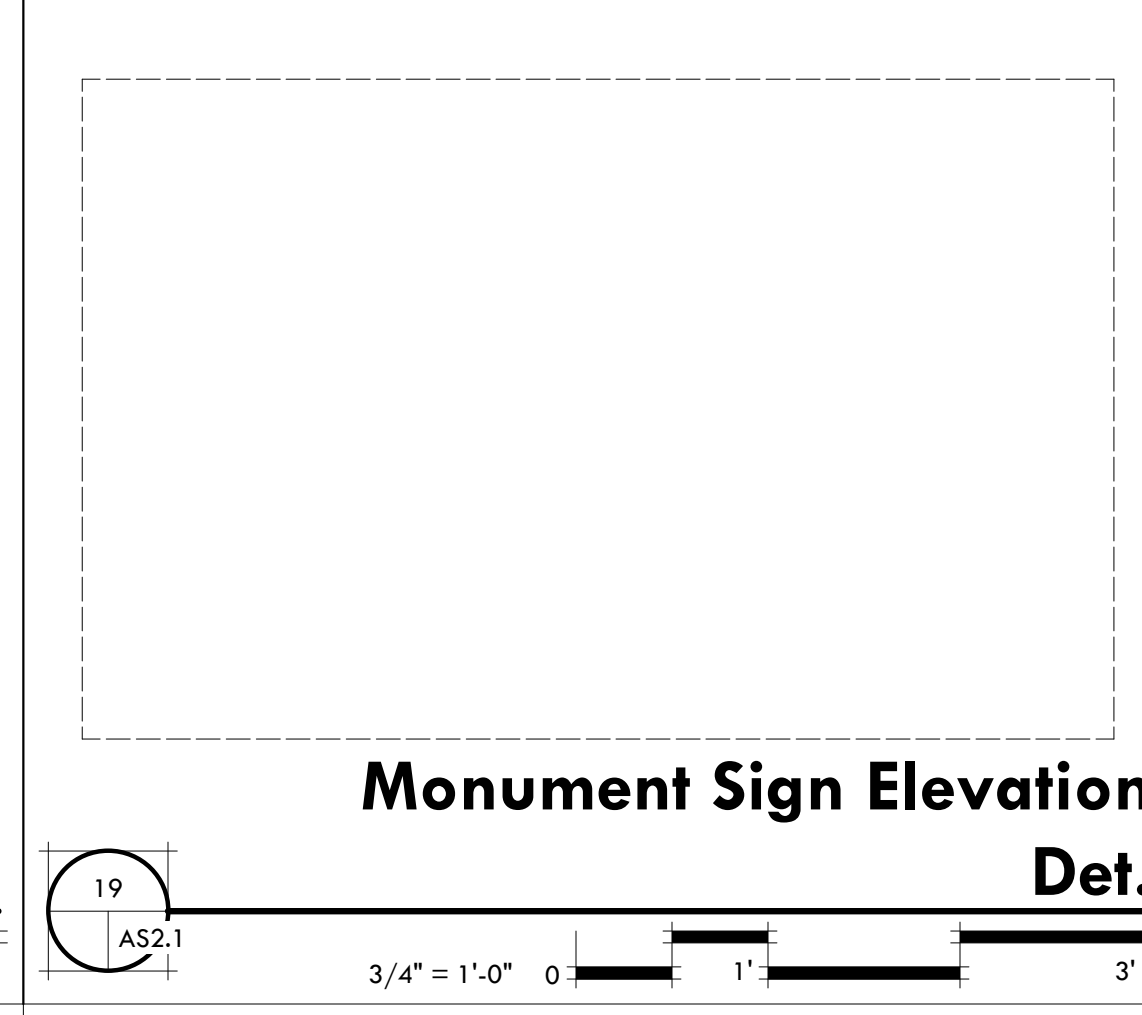
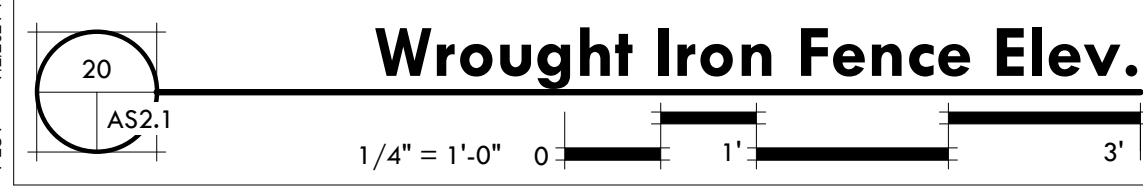
Dumpster Gate



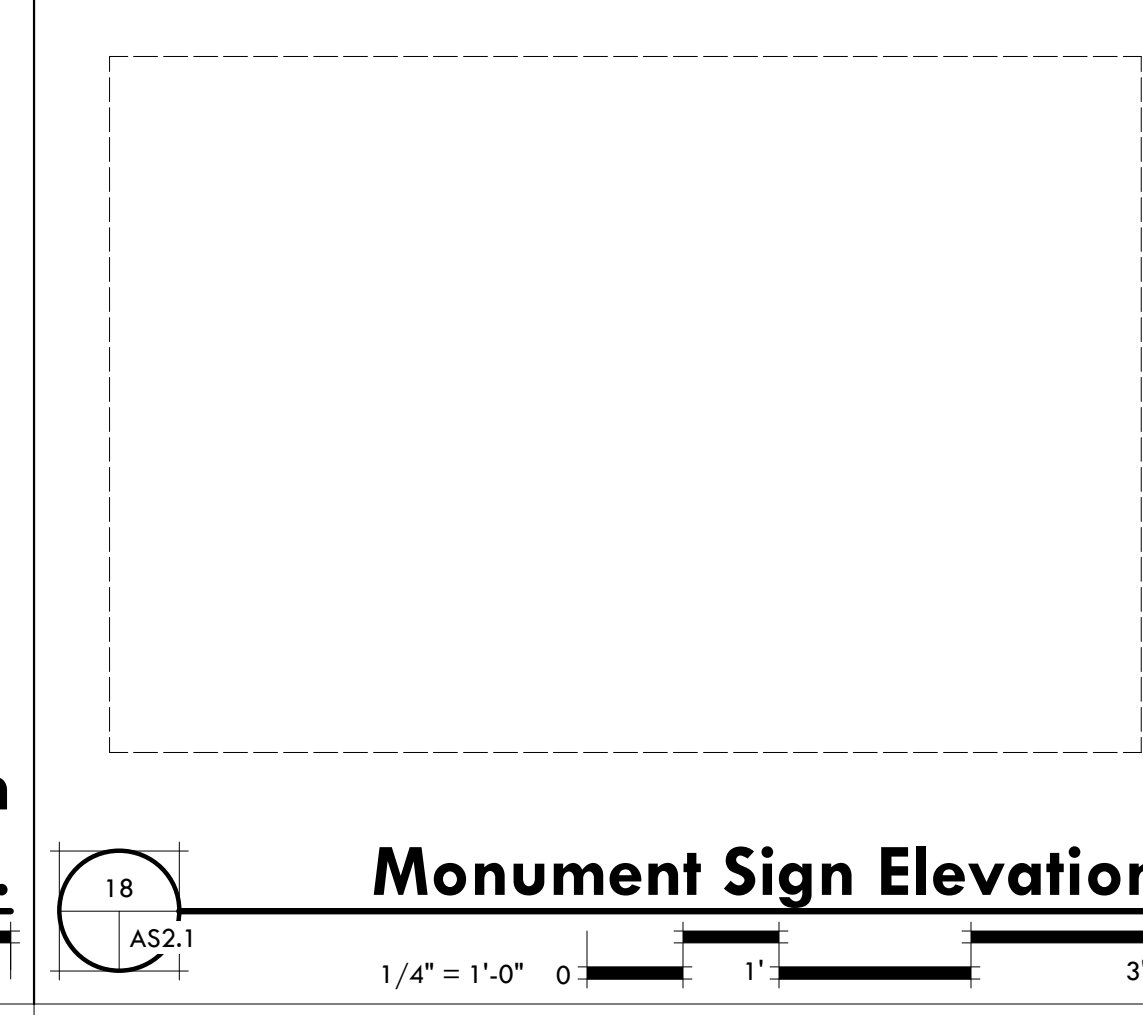
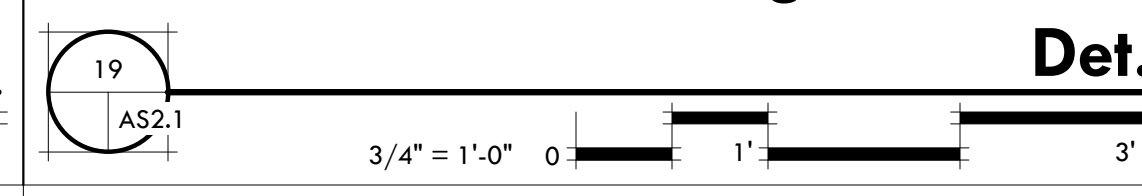
Trash Enclosure



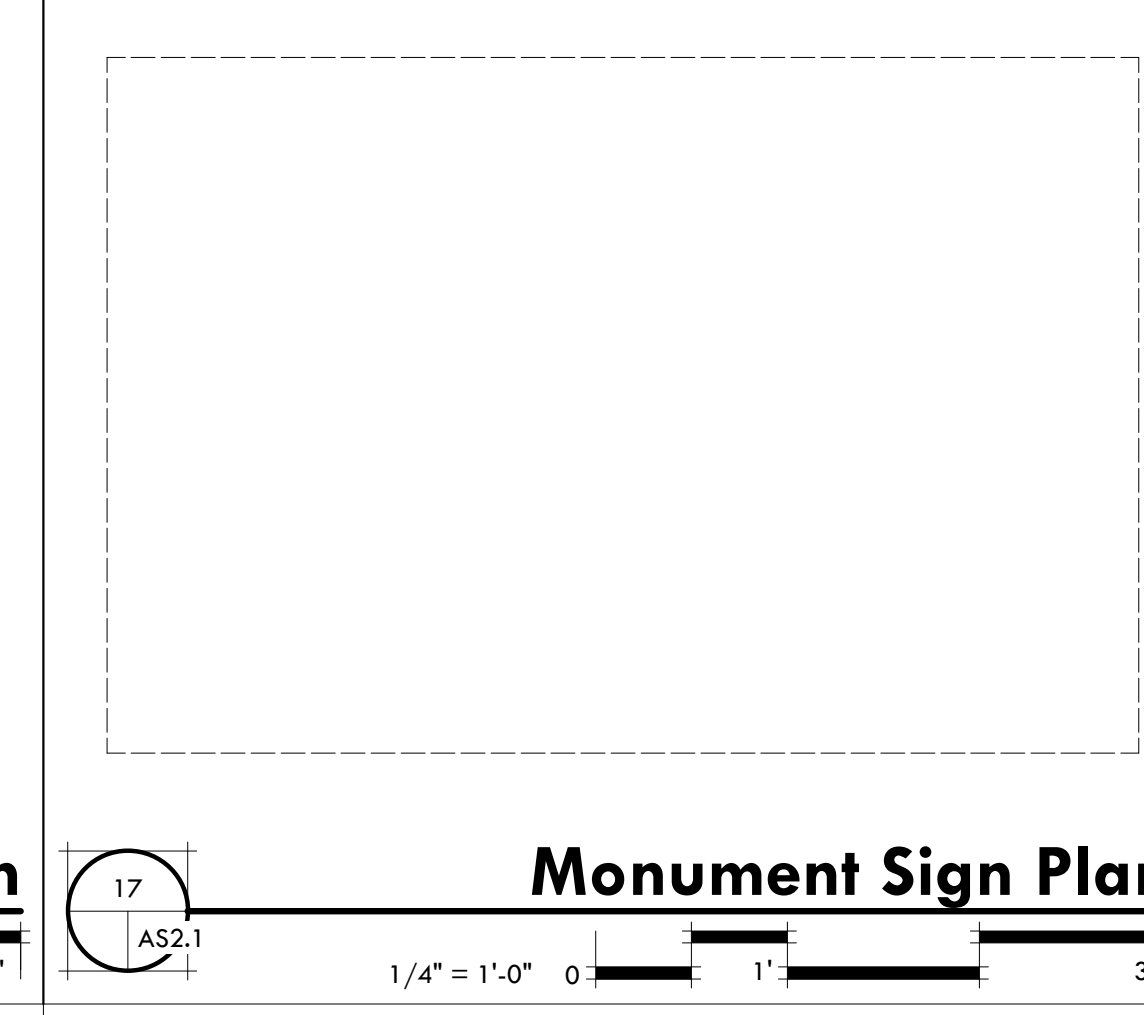
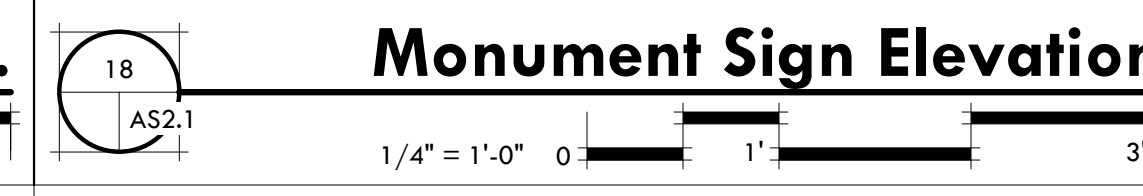
Wrought Iron Fence Elev.



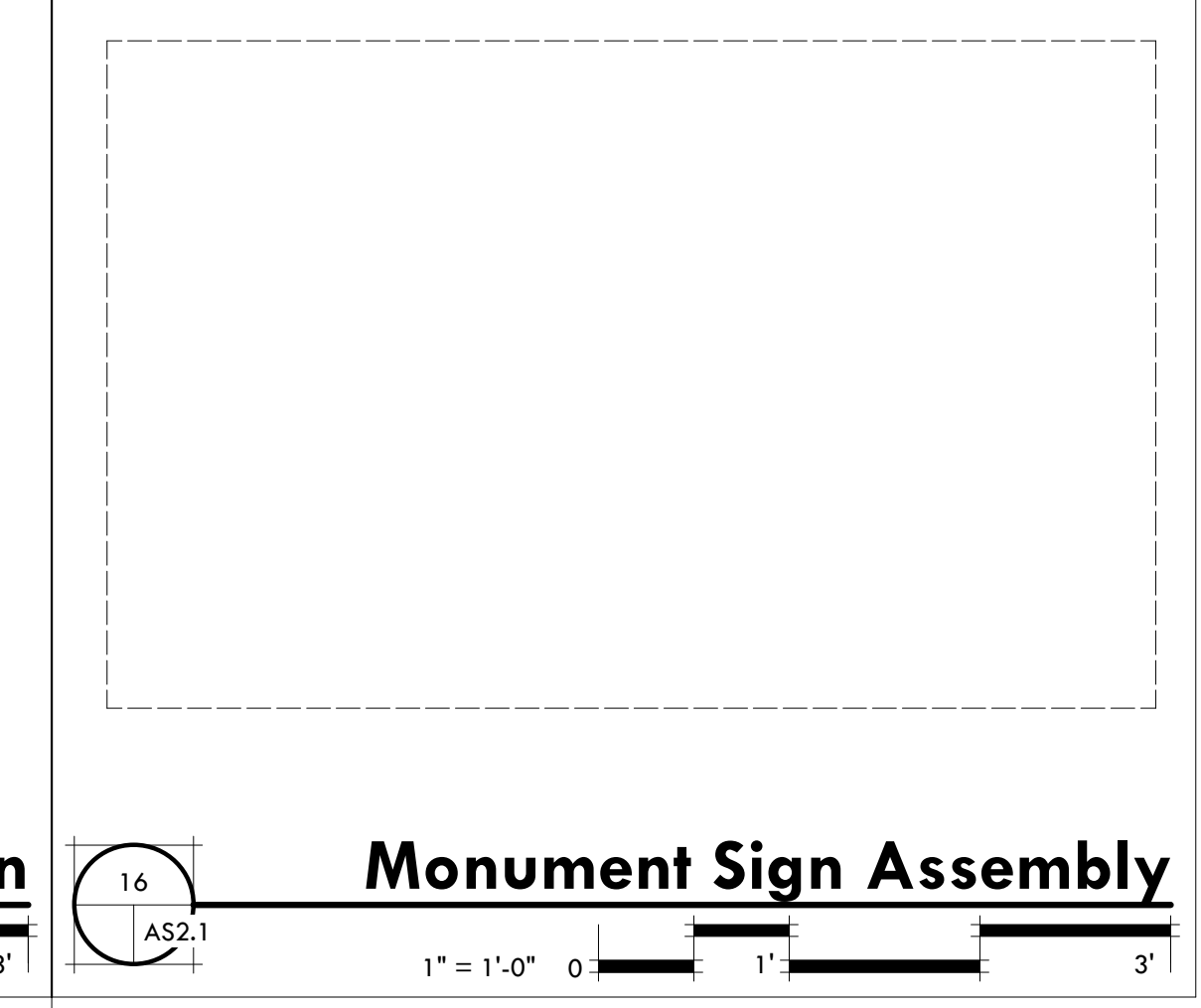
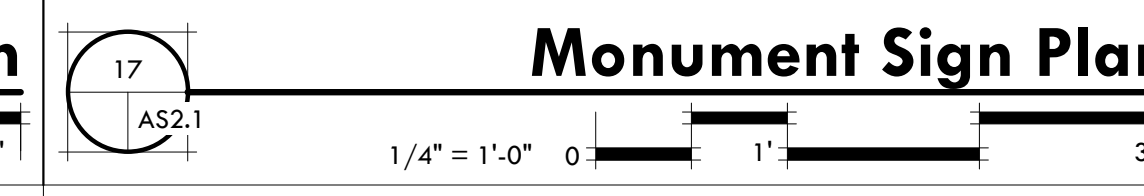
Monument Sign Elevation Det.



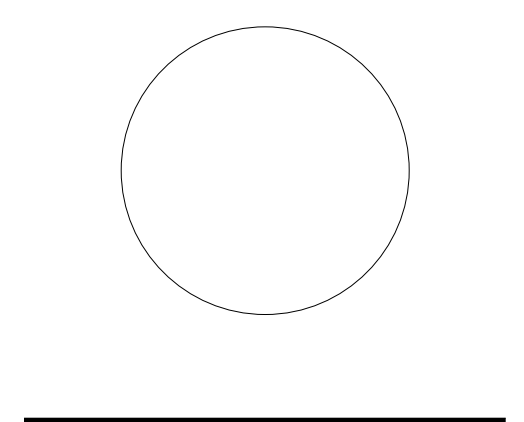
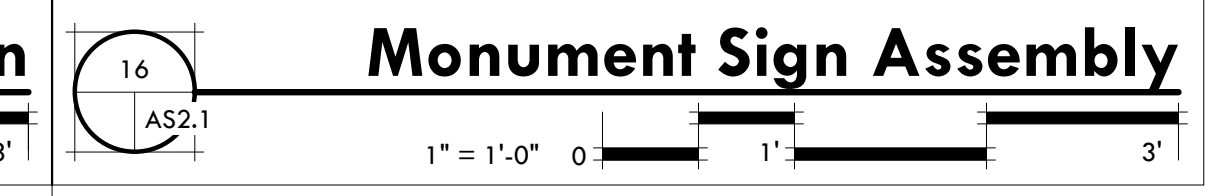
Monument Sign Elevation



Monument Sign Plan



Monument Sign Assembly



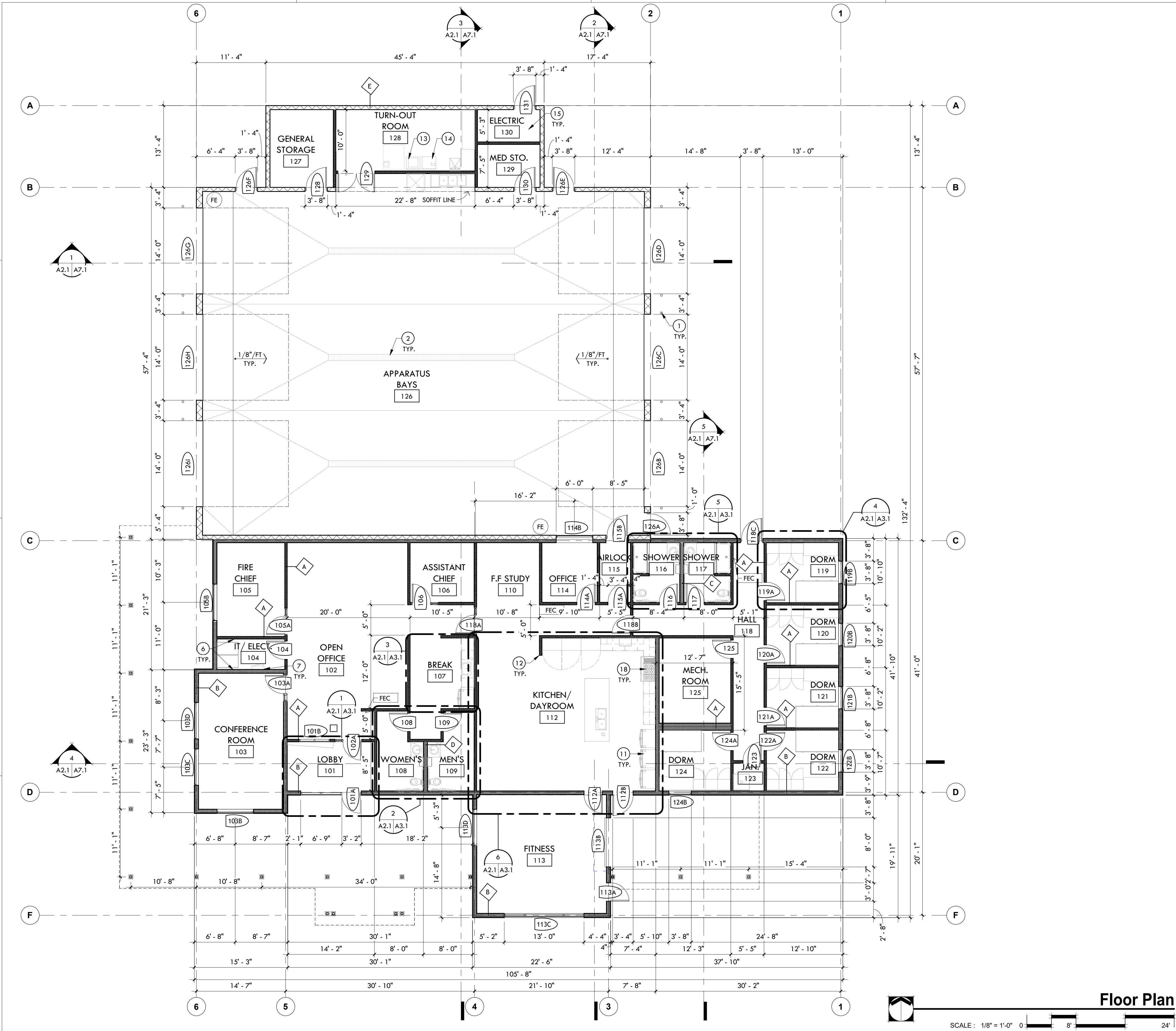
PROJECT NO:
 23.21.00
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PLOT: 7/26/2024 10:26:43 AM

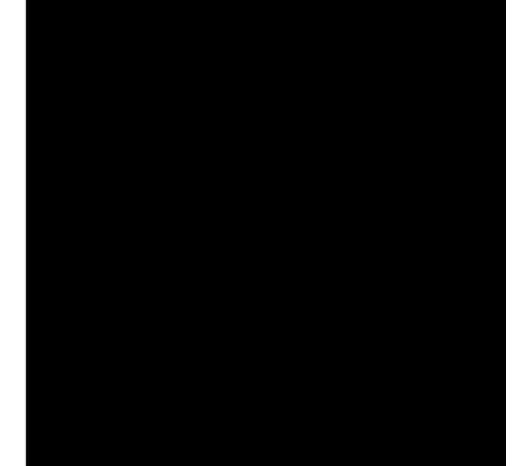


General Notes

- ALL DIMENSIONS OF METAL STUD WALLS ARE TO THE FACE OF THE STUD.
- ALL DOORS ON METAL STUD PARTITION WALLS TO BE 4" FROM PERPENDICULAR WALL TO OUTSIDE OF FRAME, UNO.
- GYPSON BOARDS RETURNS NOT SHOWN FOR CLARITY. RETURN GYPSON BOARD TO ALL OPENINGS AND RECESSES.
- AT TRANSITION FROM EXTERIOR FURRING WALLS INTO INTERIOR STUD WALLS, PROVIDE GYP BOARD CONTROL JOINTS.
- STRUCTURAL GRID LINES ARE TO COLUMN CENTERLINE.
- SEE STRUCTURAL DRAWINGS FOR CONCRETE SLAB CONTROL JOINT LOCATION.
- 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.
- DETAILS MARKED "TYPICAL" OR "TYP" SHALL APPLY IN ALL CASES UNLESS SPECIFICALLY INDICATED OTHERWISE.
- 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.
- DETAILS MARKED "SIMILAR" OR "SIM" MEANS COMPARABLE CHARACTERISTS FOR THE CONDITIONS NOTED. VERIFY SIMILAR DIMENSIONS OR NOTES ON THE DRAWINGS.
- USE MOISTURE RESISTANT GYPSON WALLBOARD ON ALL PARTITIONS WHICH ARE EXPOSED TO WATER OR MOISTURE FOR EXAMPLE, JANITOR'S CLOSETS, RESTROOMS, AND LAUNDRY ROOMS.
- SLOPE FLOORS TO DRAINS AS SHOWN ON DRAWINGS.
- SLOPE ALL CONCRETE SIDEWALKS AWAY FROM EXTERIOR DOORS A MAXIMUM OF 2% TO PREVENT WATER FROM RUNNING OR BEING BLOWN UNDER THE DOORWAYS AND TO PREVENT STANDING WATER FROM ACCUMULATING IN FRONT OF THE DOORS.
- ALL CONCRETE FLOOR JOINTS ARE TO BE FILLED WITH THE APPROPRIATE SEALANT.
- PROVIDE BLOCKING IN WALLS IN DESIGNATED TOILET/SHOWER ROOMS FOR GRAB BAR LOCATIONS.
- INSTALL HIGH IMPACT SURFACE MOUNTED 48" HT. 2" X 2" CORNER GUARDS AT ALL EXTERIOR CORNERS.

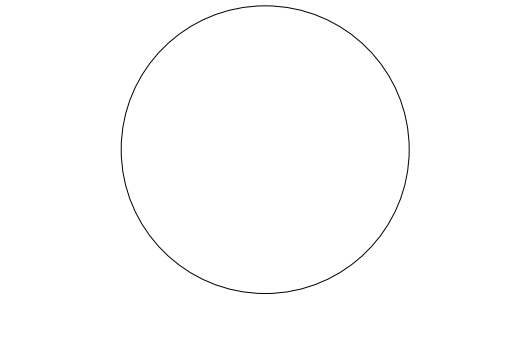
Keynotes

- STEEL BOLLARD
- TRENCH DRAIN, CENTER ON DOOR OPENING
- STEEL ROOF LADDER
- FIRE EXTINGUISHER CABINET
- GENERATOR ANNUNCIATOR PANEL, REFER TO ELECTRICAL
- PAINTED FIRE TREATED PLYWOOD AT ALL WALL SURFACE
- ELECTRICAL PANELS
- RETURN GRILLE ON WALL, COORDINATE LOCATION WITH MECHANICAL
- AIR COMPRESSOR, REFER TO ME & P DRAWINGS
- ICE READY MACHINE
- REFRIGERATOR
- 90 DEGREE CORNER GUARD
- WASHER
- DRYER
- ELECTRICAL EQUIPMENT
- FIRE DEPARTMENT CONNECTION
- OVERHEAD DOORS CONTROL STATION, REFER TO ELECTRICAL
- RANGE
- FIRE ALARM CONTROL PANEL
- CARD READER PEDESTAL



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: JULY 2024

REVISION SCHEDULE:	DATE	DESCRIPTION	ISSUED TO

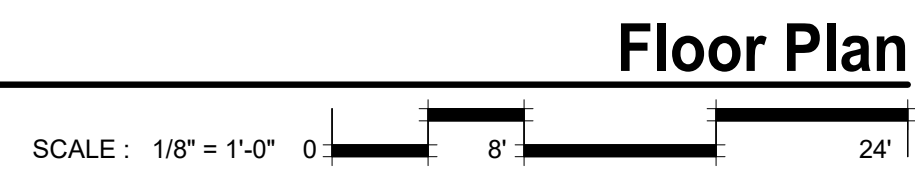
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CHECKED BY: CDA

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Floor Plan
A2.1



Floor Plan



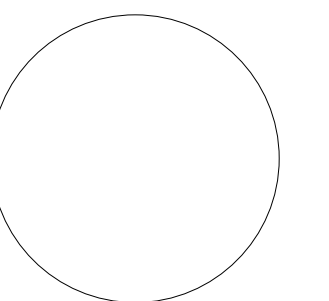
General Notes

1. GYMNASIUM EQUIPMENT - OWNER PROVIDED, OWNER INSTALLED
2. SYSTEMS FURNITURE - OWNER PROVIDED, OWNER INSTALLED
3. DINING SET FOR 8 PEOPLE - OWNER PROVIDED, OWNER INSTALLED
4. WORK STATION W/ INTEGRAL LIGHTING - OWNER PROVIDED, OWNER INSTALLED
5. THE TV WALL MOUNTED BRACKETS WILL BE OWNER FURNISHED / CONTRACTOR INSTALLED. INSTALL BLOCKING, COORDINATE WITH OWNER.

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



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Furniture/ Equip.
 Plan

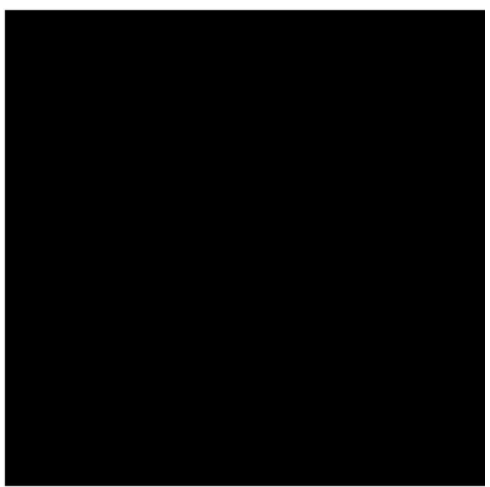
A22



Furniture/ Equipment Plan

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

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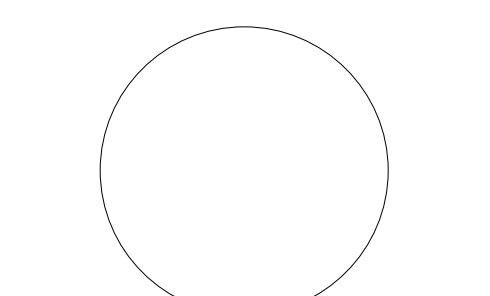


Breckenridge
Group Architects
Planners

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

Preliminary Plans



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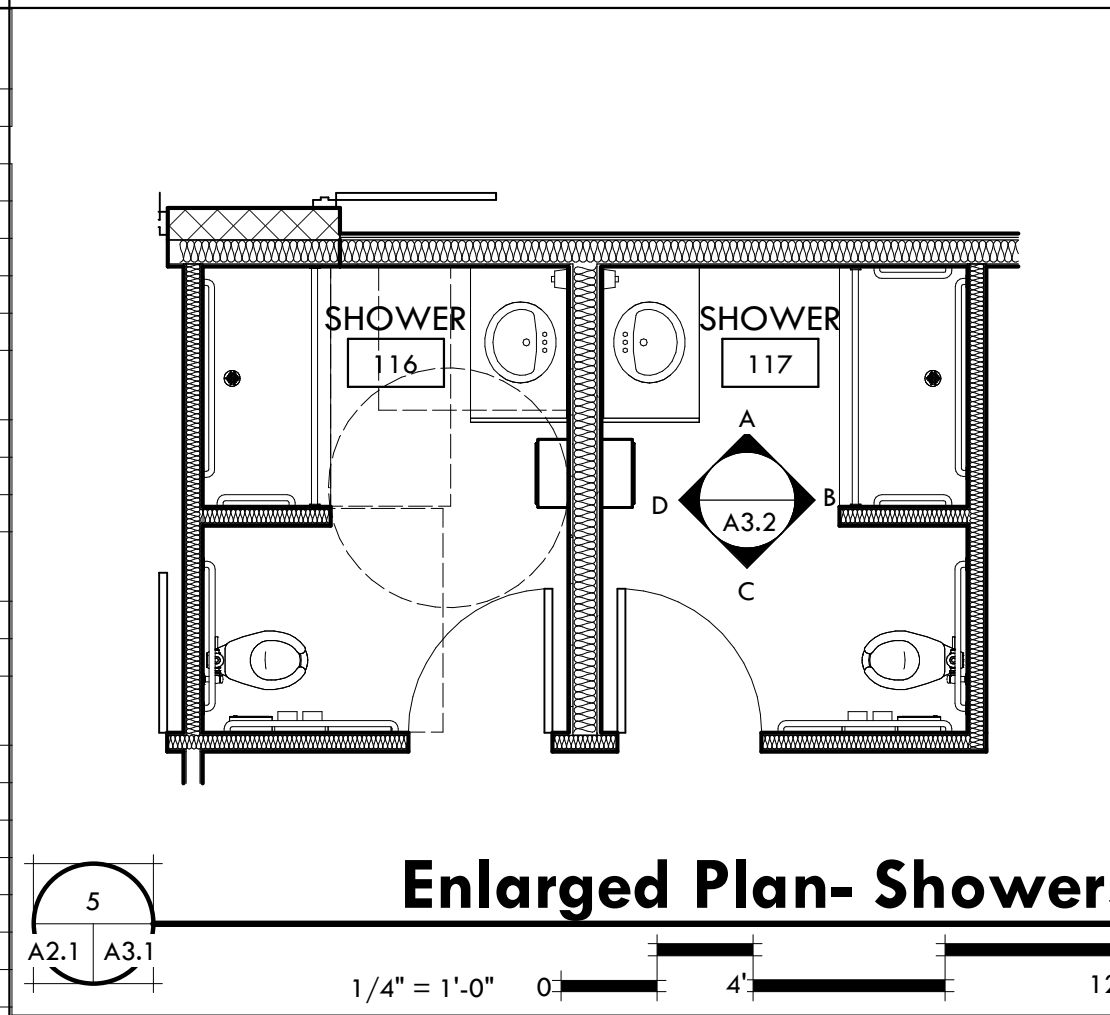
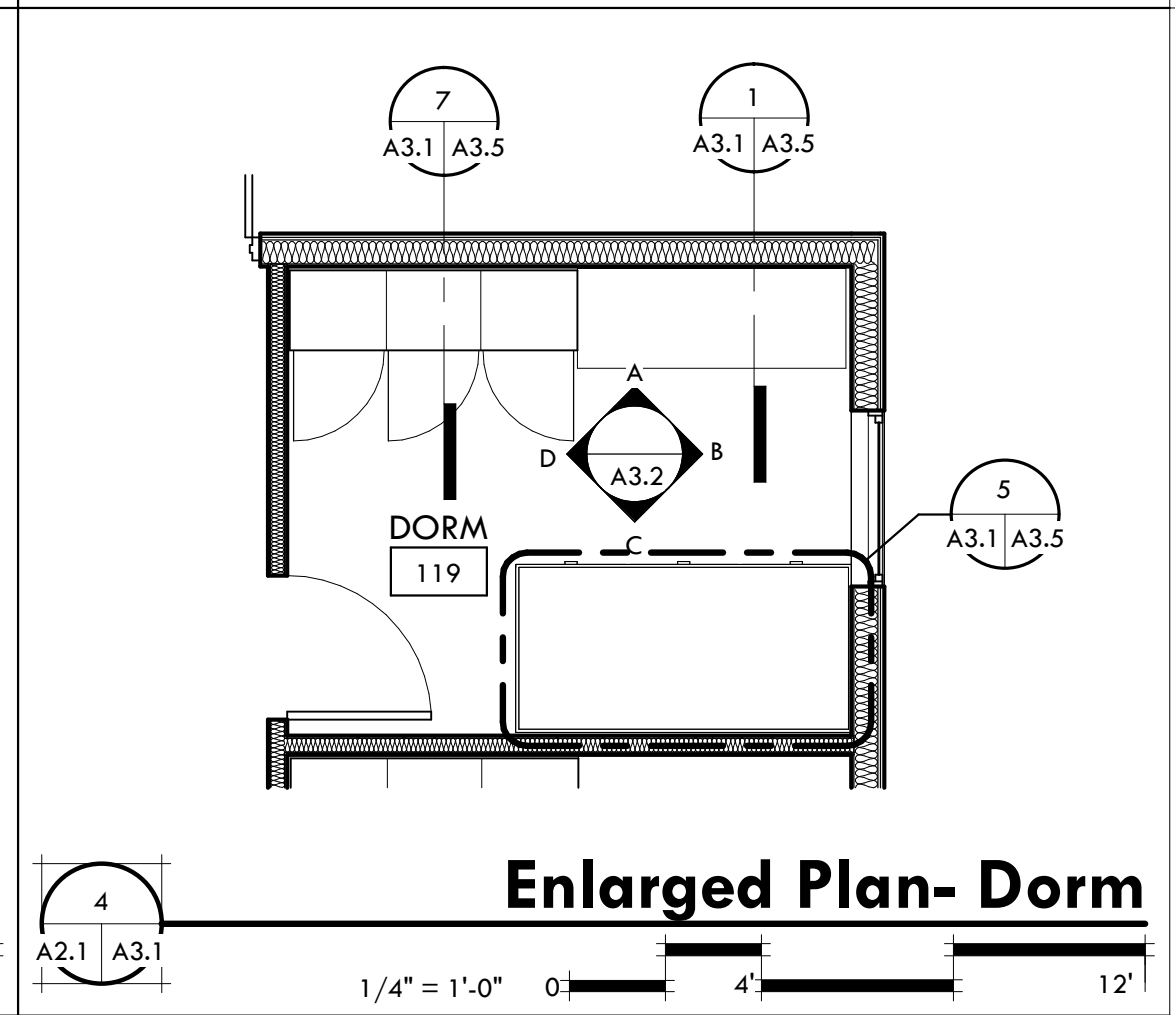
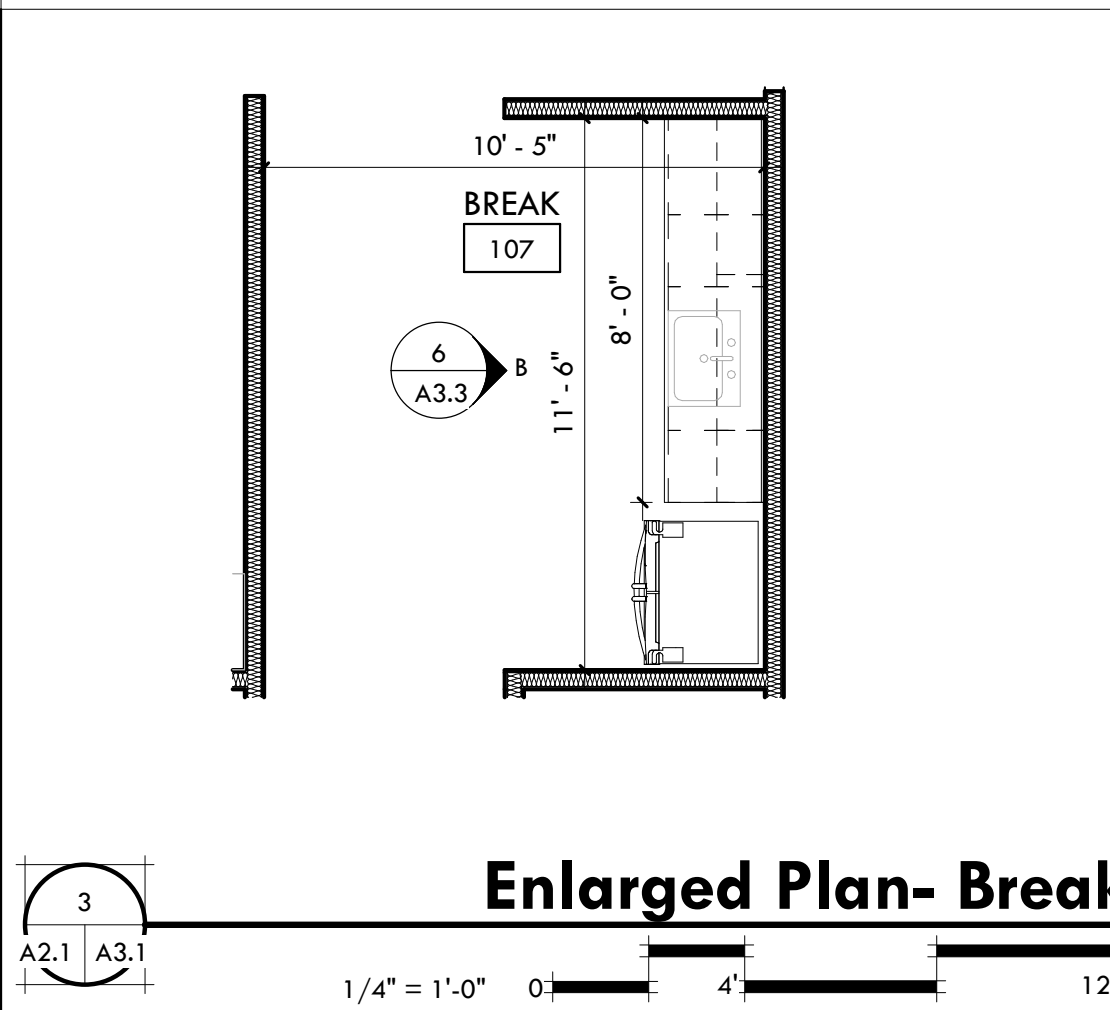
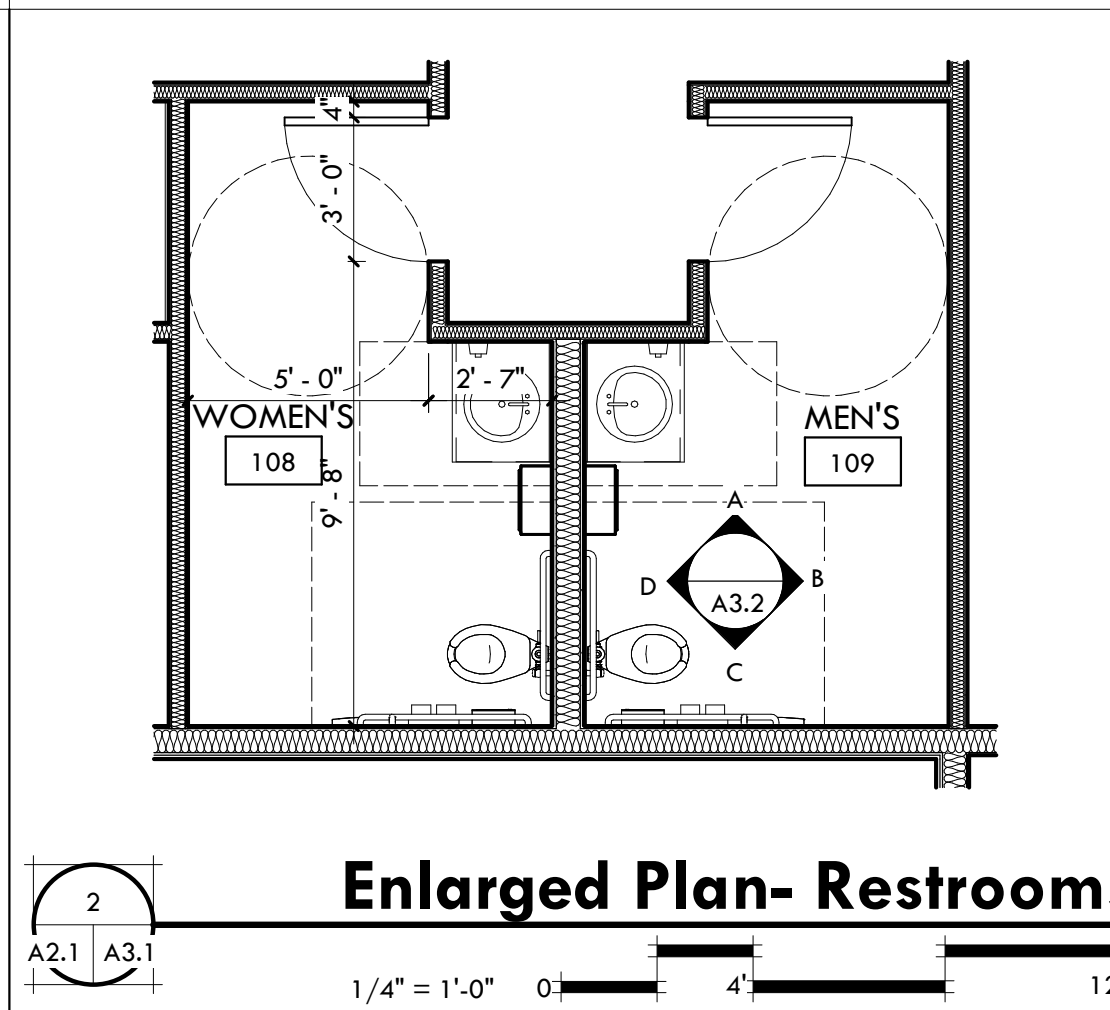
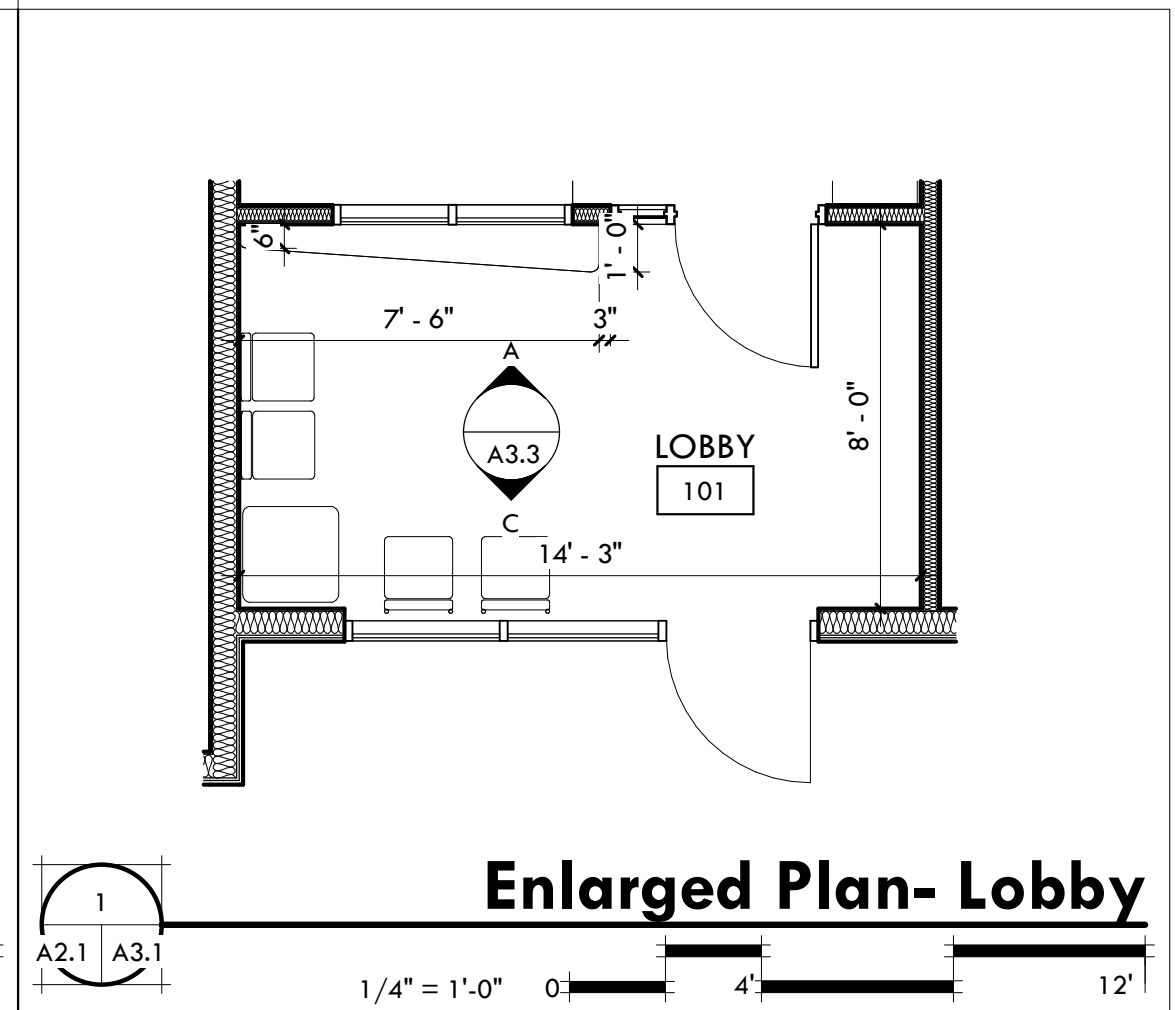
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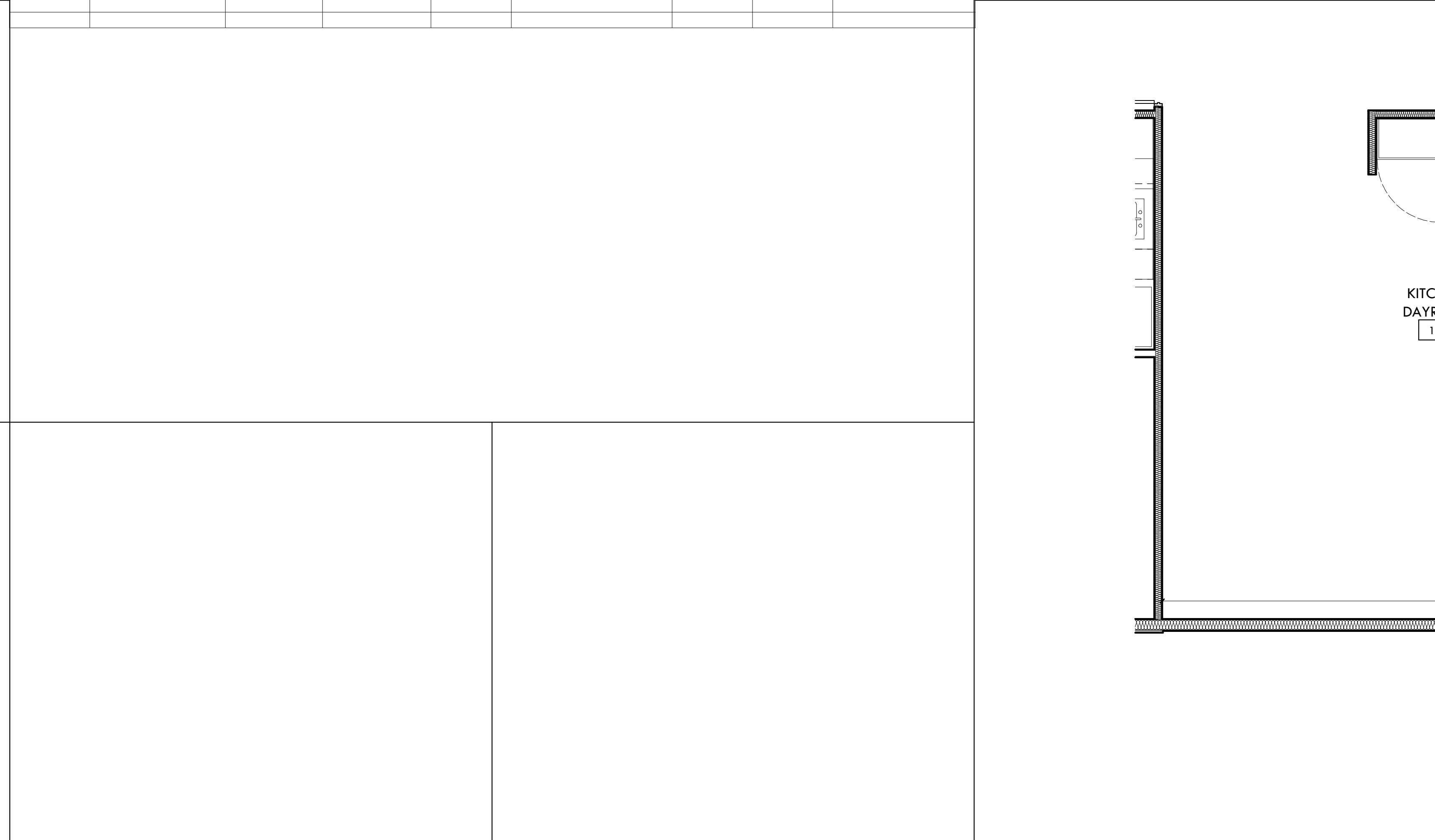
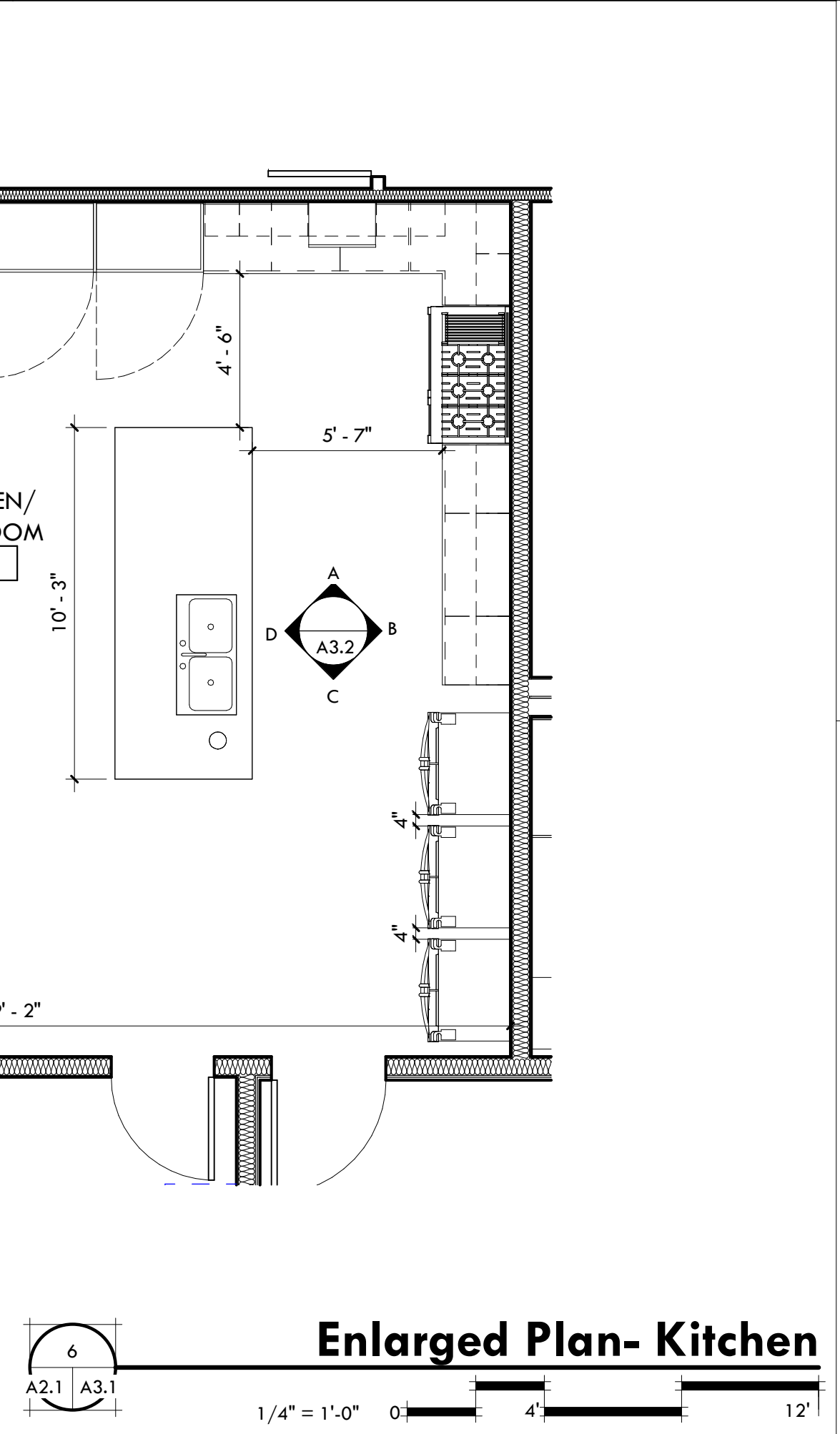
Enlarged Floor plans

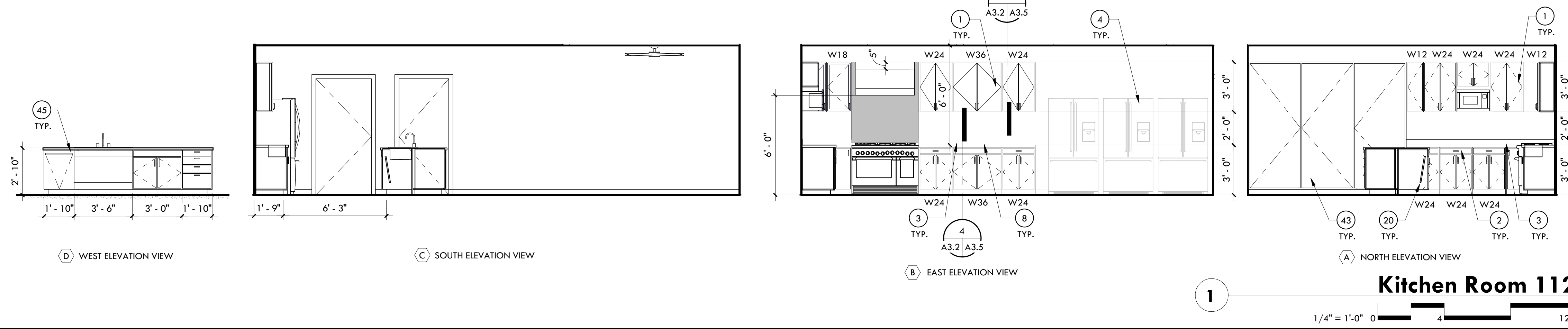
A3.1



Toilet Accessories

Key Number	Toilet Equipment Name	Model	Equipment Location	Manufacturer	Size (WxDxH)	Furnished By	Installed By	Comment
GB1	18" GRAB BAR	8170x18	108,109,116,117	BRADLEY CORP.	18"	-	-	
GB2	36" GRAB BAR	8170x36	108,109,116,117	BRADLEY CORP.	36"	-	-	
GB3	42" GRAB BAR	8170x42	108,109,116,117	BRADLEY CORP.	42"	-	-	
GB4	48" GRAB BAR	8170x48	116,117	BRADLEY CORP.	48"	-	-	
TT1	TOILET TISSUE DISPENSER	5126	108,109,116,117	BRADLEY CORP.	1' 5/8 x 6 3/8 x 2"	-	-	
ND1	SANITARY NAPKIN DISPOSAL	b-254	108,109,116,117	BOBRICK	10 11/16 x 1' 3/8 x 4 1/16"	-	-	
27	CURTAIN ROD	-	116,117	LASCO	-	-	-	
44	SOAP DISPENSER	6563	108,109,116,117	BRADLEY CORP.	4 7/8 x 2 15/16 x 8 1/4"	-	-	
-	FLOOR DRAIN	3468	116,117	-	-	-	-	
PT2	PAPER TOWEL TALL WALL MOUNTED	-	108,109,116,117	-	60.5"	-	-	
9	MIRROR	-	116,117	-	2' x 1 x 4" 2"	-	-	
15	BASIN MOP SERVICE	z1996-24	123	ZURN INDST.	2' 8" x 2' 8" x 1'	-	-	
SC1	TOILET SEAT COVER DISPENSER	B-4221	108,109	BOBRICK	1' 3 3/4 x 11 1/4 x 2 3/16"	-	-	





Kitchen Room 112

General Notes

- REFER TO SHEET A3.2.1 FOR TOILET ACCESSORIES KEYNOTES AND MOUNTING HEIGHTS
- BATHROOM ACCESSORIES TO BE KEYLESS TYPE

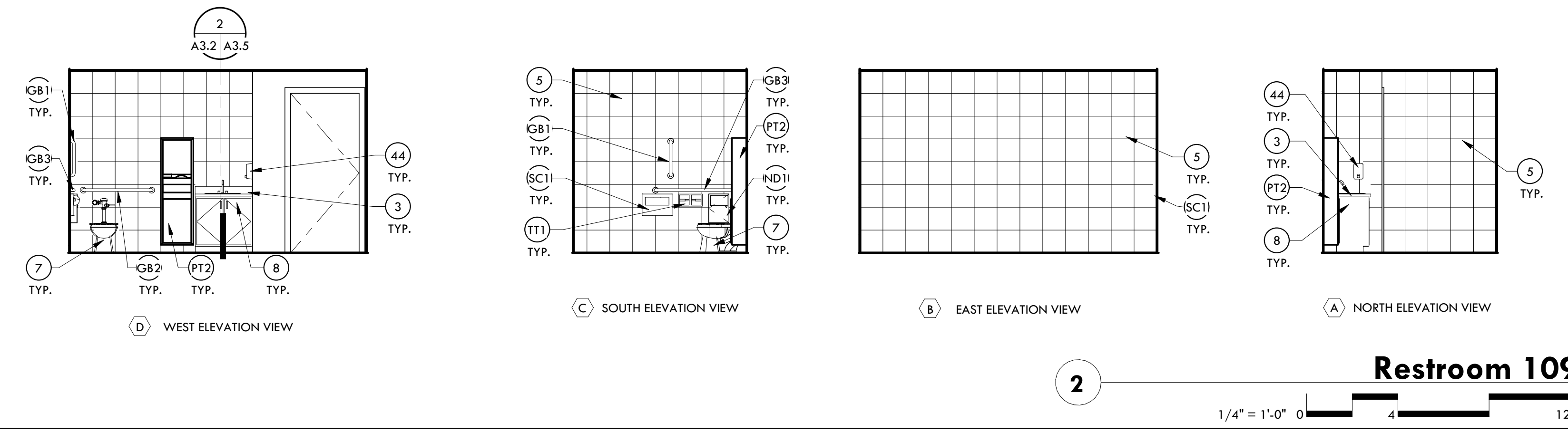
Keynotes

- PLASTIC LAMINATE UPPER CABINET
- PLASTIC LAMINATE BASE CABINET
- SOLID SURFACE COUNTERTOP & BACKSPLASH
- REFRIGERATOR
- CERAMIC TILE
- SOLID SURFACE COUNTER W/ INTEGRAL LAV & BACKSPLASH
- A.D.A COMPLIANT WATER CLOSET
- SINGLE COMPARTMENT SINK
- MIRROR
- STACKABLE DRYER
- BUILT-IN PLASTIC LAMINATE CABINET
- WALL MOUNTED BRACKET
- WALL MOUNTED LIGHT FIXTURE
- UTILITY SINK
- MOP SINK WITH STAINLESS STEEL PANEL
- STACKABLE WASHER
- CEILING FAN
- TELEVISION (N.I.C.) PROVIDE BLOCKING
- BUILT-IN BED BASE CABINET
- ADA COMPLIANT SINGLE COMPARTMENT SINK
- MOP RACK
- WIRE LOCKERS
- DISHWASHER
- STAINLESS STEEL WORK BENCH
- FRP PANELS, FULL HEIGHT
- STAINLESS STEEL SHELVES
- SHOWER CURTAIN ROD
- BUILT-IN PLASTIC LAMINATE OPEN SHELVING CABINET
- SOLID SURFACE SHOWER ENCLOSURE
- ELECTRICAL OUTLET, REFER TO POWER PLAN
- SOLID SURFACE SHOWER SHELF
- SHOWER HEAD
- BUILT-IN PLASTIC LAMINATE LOCKERS
- CABINET MOUNTED DOUBLE OVEN
- MICROWAVE OVEN
- BASE PER SCHEDULE
- SOLID SURFACE COUNTERTOP
- ELECTRIC COOKTOP
- STEM MOUNT LIGHT FIXTURE, REFER TO ELECTRICAL
- CAD ALERT - MS MESSAGE REMOTE, REFER TO CAD ALERT PLAN
- PLASTIC LAMINATE SHELF
- SOAP DISPENSER
- FRONT LOADING DISHWASHER
- DRAWER
- 18" LONG VER GRAB BAR
- 36" HORIZONTAL GRAB BAR
- 42" HORIZONTAL GRAB BAR
- 48" HORIZONTAL GRAB BAR
- ADA FRAMED MIRROR
- SANITARY NAPKIN DISPOSAL
- WASTE RECEPTACLE
- TOILET SEAT COVER DISPENSER
- TOILET PAPER DISPENSER

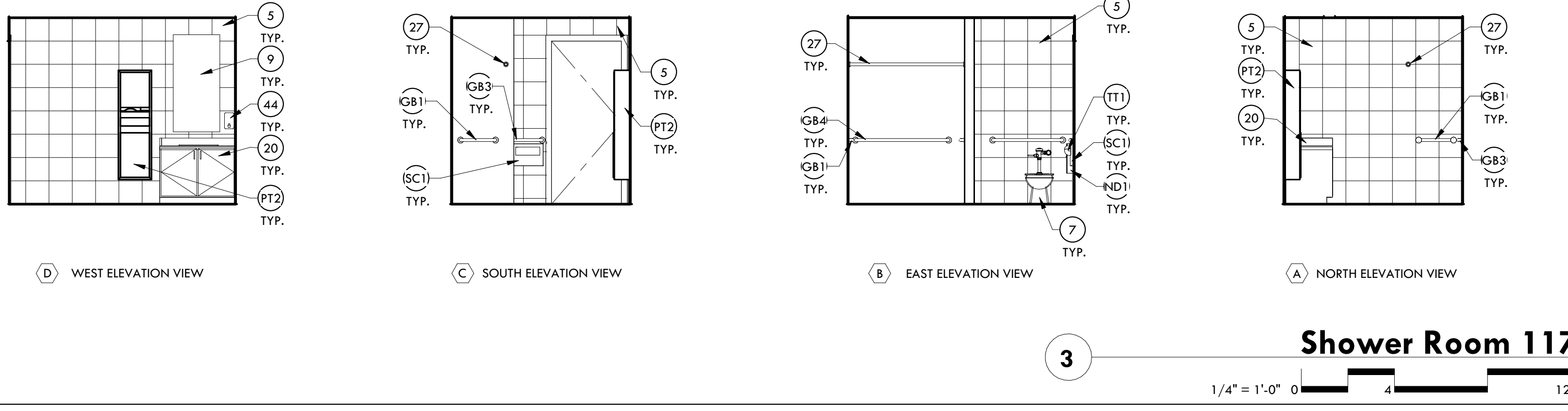
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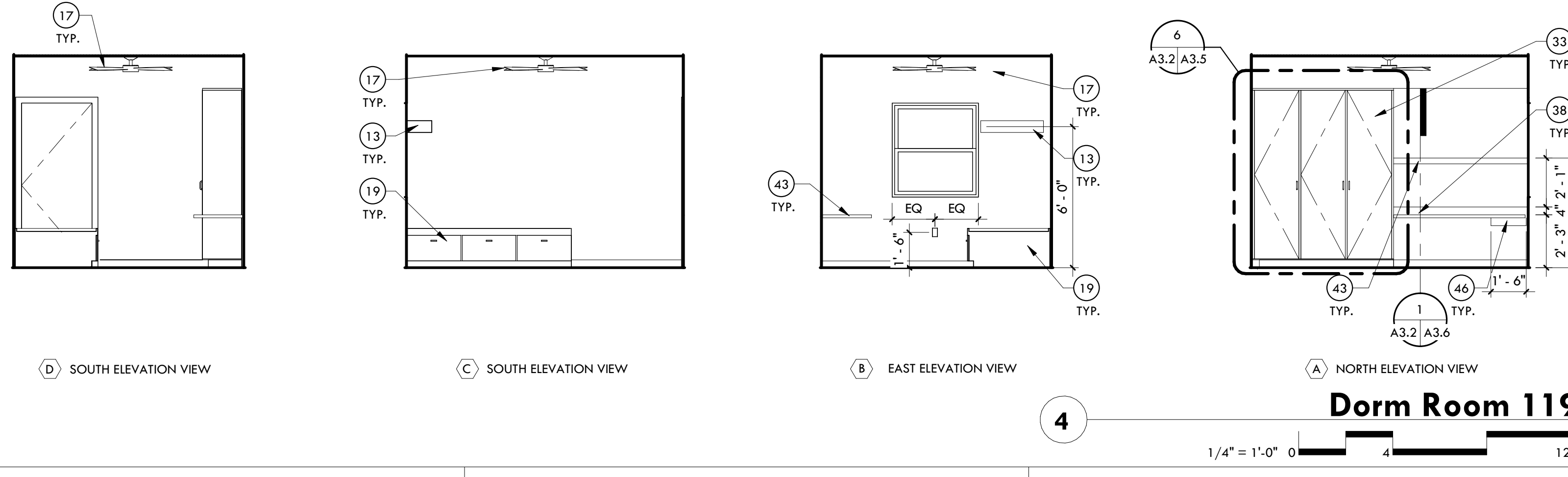
Tubac Fire Station #1
 2227 I-10 Frontage Rd., Tubac, AZ 85646
 Preliminary Plans



Restroom 109



Shower Room 117



Dorm Room 119

PROJECT NO:
23.21.00

DATE:
JULY 2024

REVISION SCHEDULE:

#	DATE	DESCRIPTION	ISSUED TO

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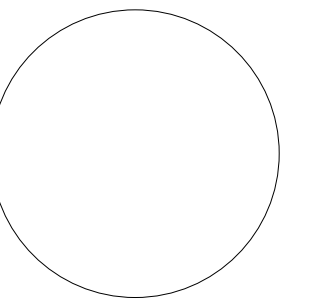
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Interior Elevations

A3.2



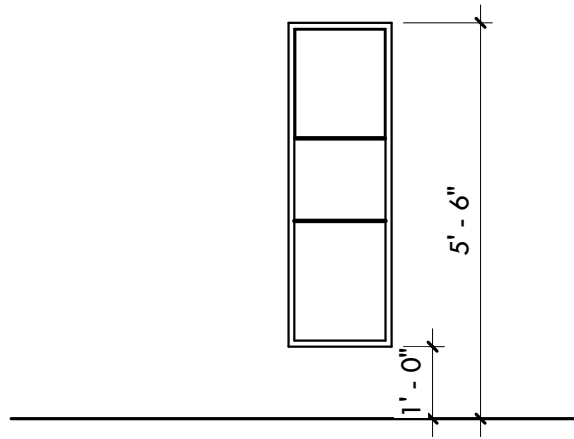
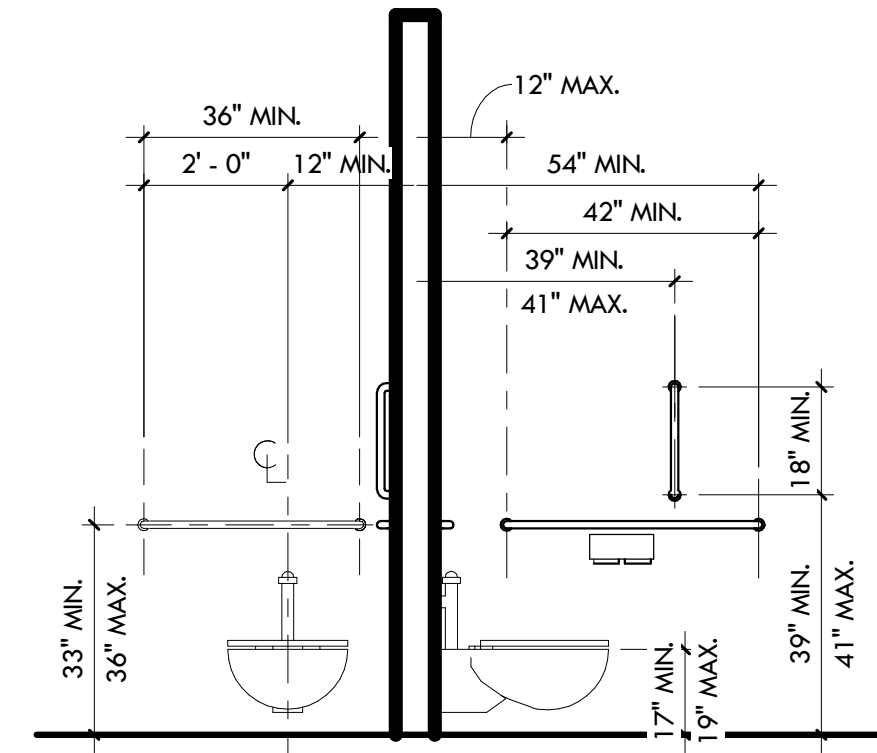
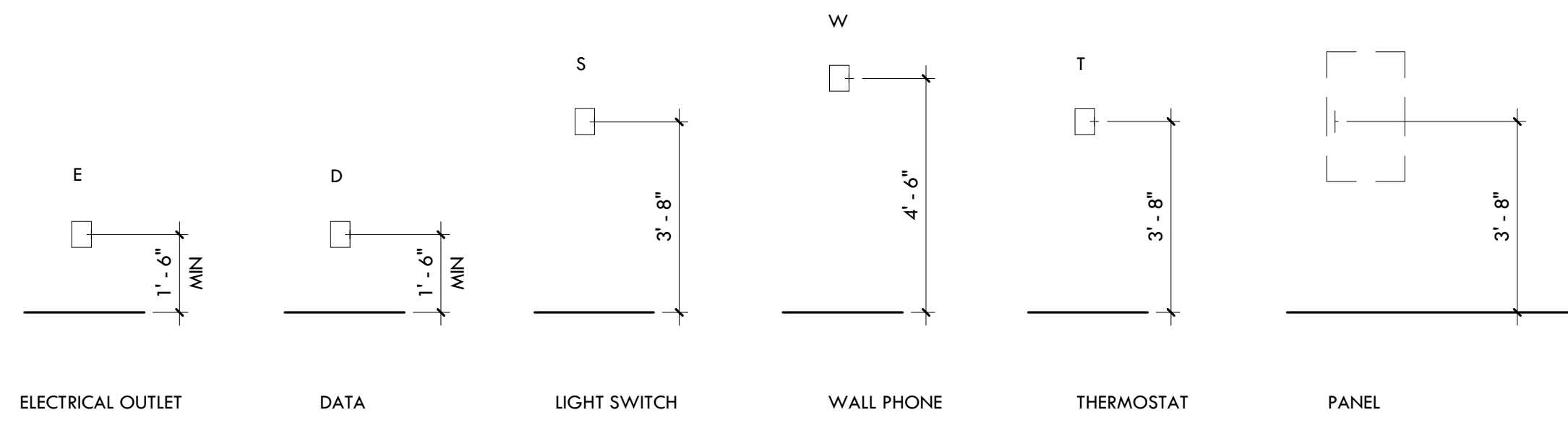
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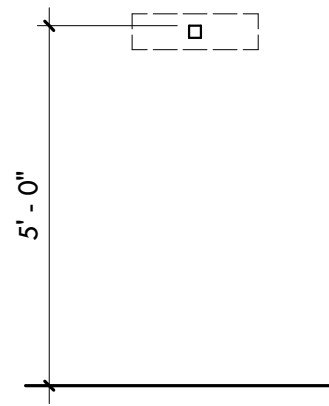
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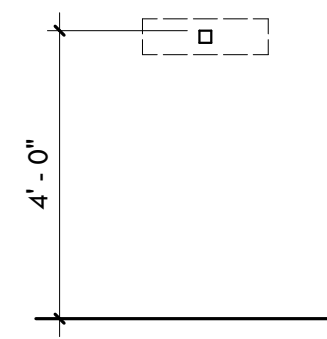
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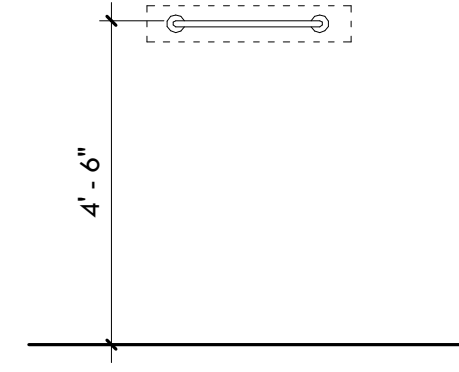
FOLDED DISPOSABLE HAND TOWEL DISPENSER W/ TRASH RECEPTACLE



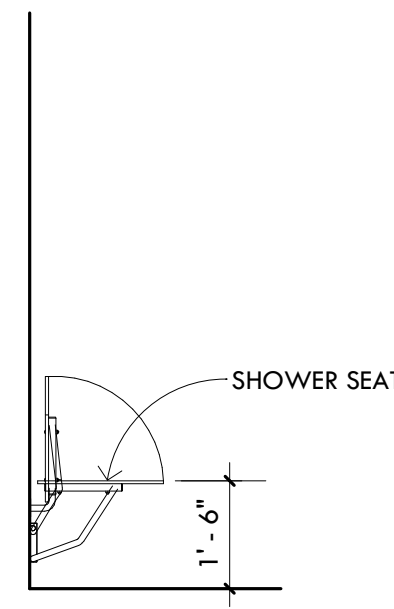
ROBE HOOK



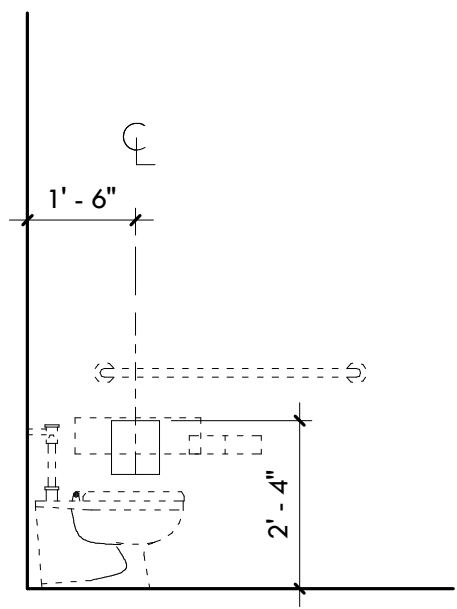
ADA ROBE HOOK



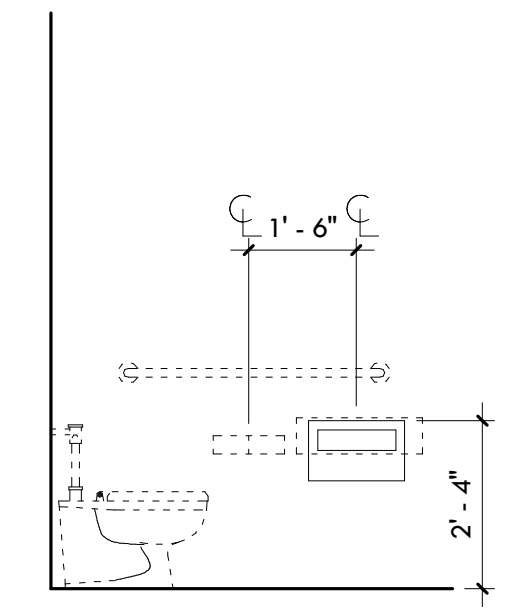
(TB1) TOWEL BAR



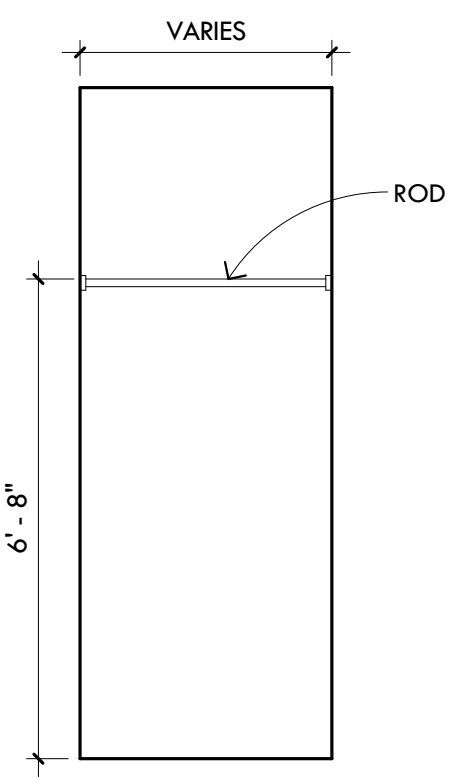
S2 SHOWER SEAT



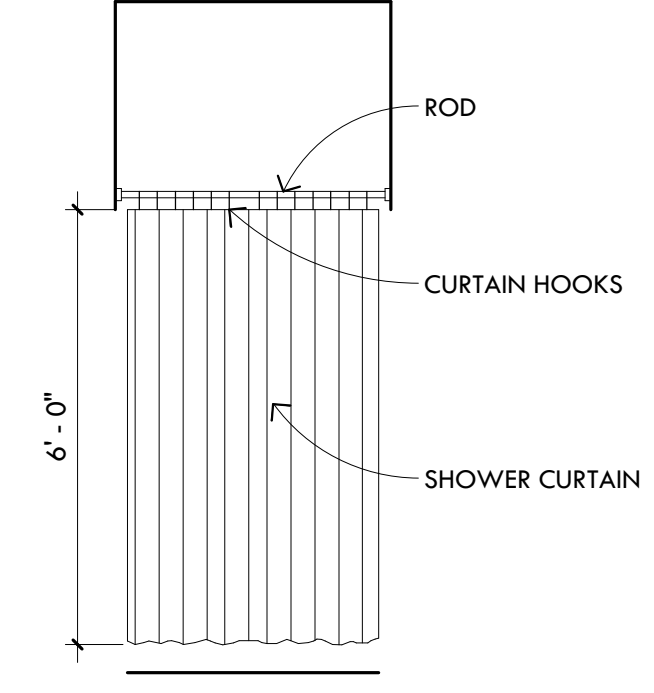
ND1 SANITARY NAPKIN DISPOSAL



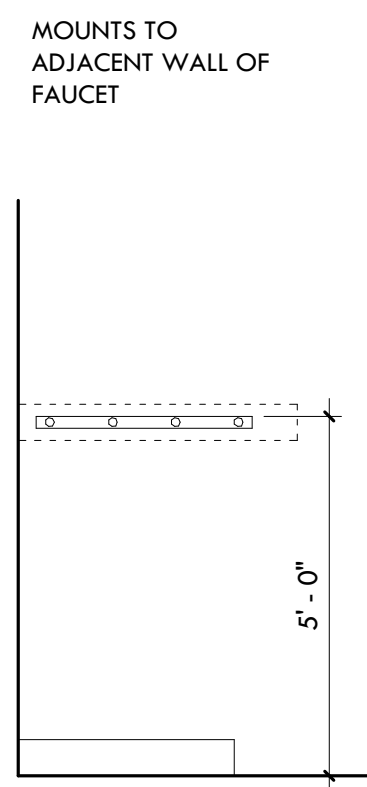
SC1 TOILET SEAT COVER DISPENSER



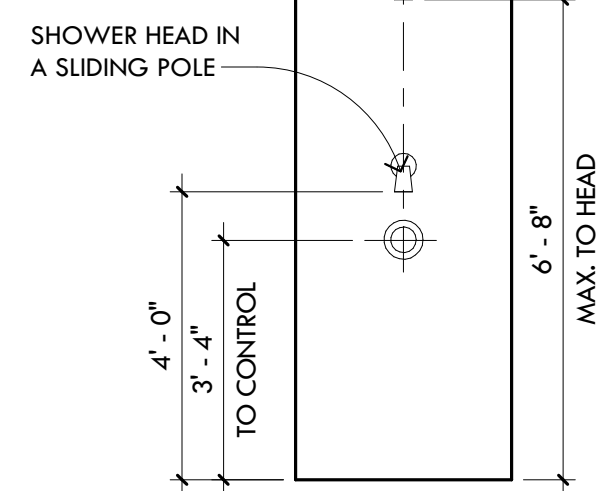
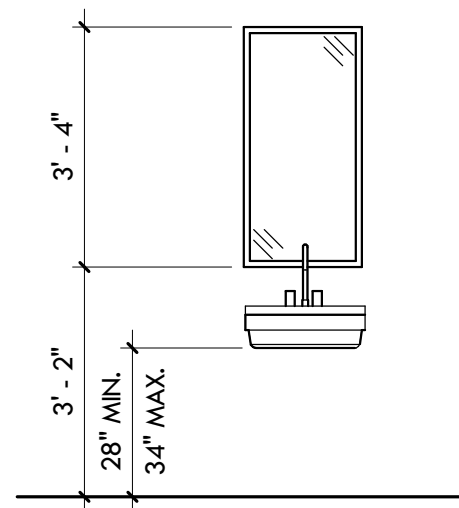
(S1) SHOWER CURTAIN ROD



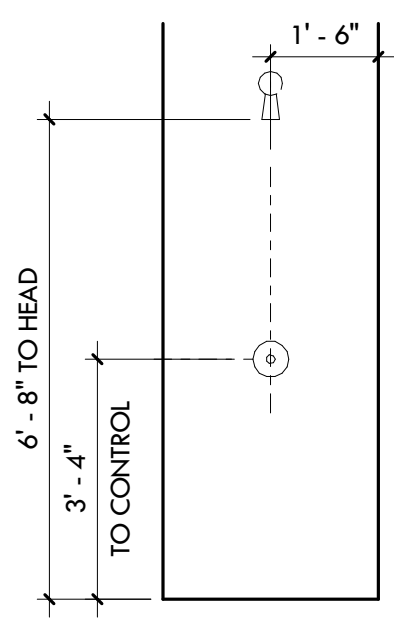
(S2) SHOWER CURTAIN



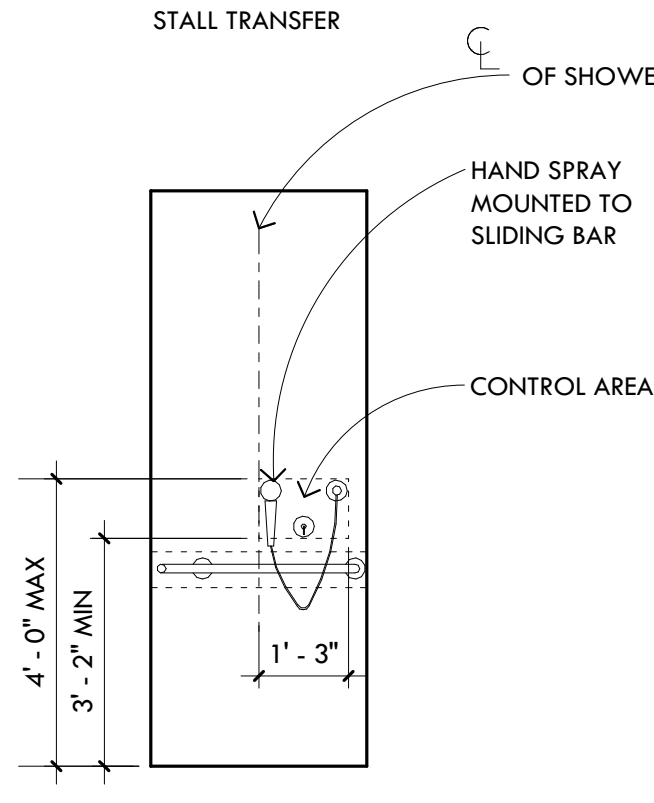
MB1 MOP HOLDER



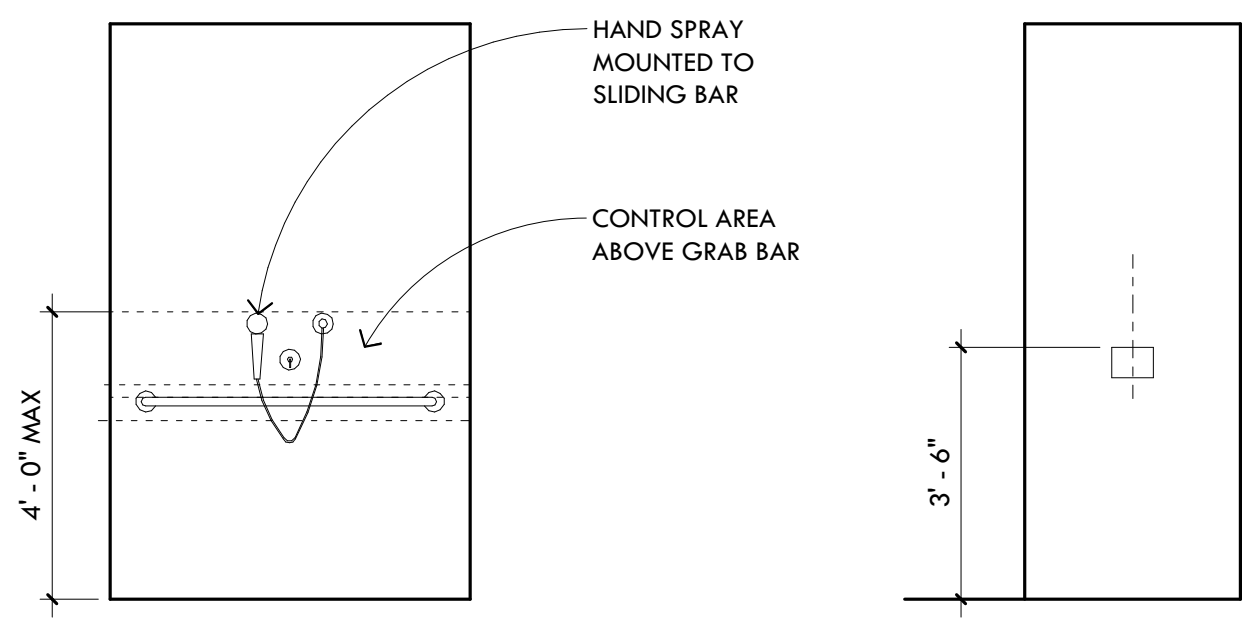
TYPICAL PLUMBING FIXTURE MOUNTING DIMENSIONS



T ACCESSIBLE SHOWER HEAD



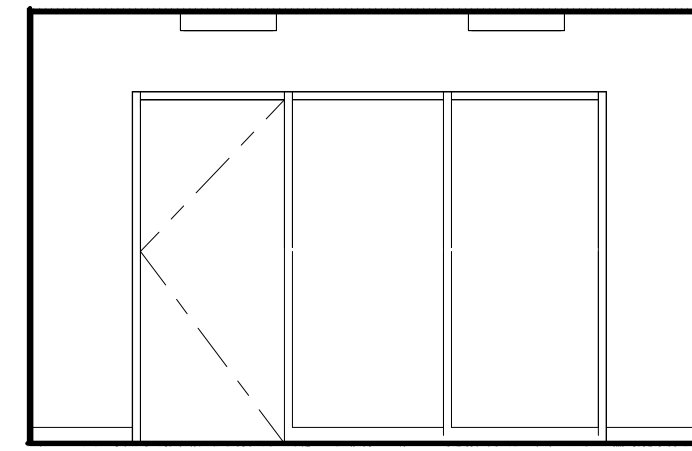
ROLL IN STALL



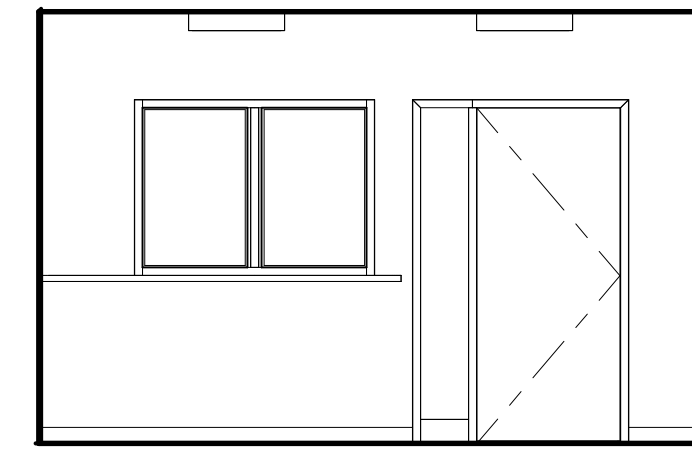
SD2 RECESSED SOAP DISH AND BAR

General Notes

- REFER TO SHEET A3.2.1 FOR TOILET ACCESSORIES KEYNOTES AND MOUNTING HEIGHTS
- BATHROOM ACCESSORIES TO BE KEYLESS TYPE



ⓑ SOUTH ELEVATION VIEW

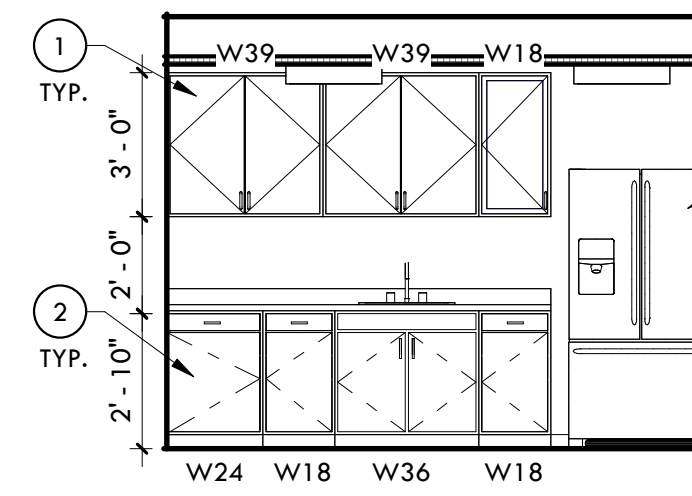


ⓐ NORTH ELEVATION VIEW

1

Lobby

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



ⓐ EAST ELEVATION VIEW

2

Break Room

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

Keynotes

- PLASTIC LAMINATE UPPER CABINET
- PLASTIC LAMINATE BASE CABINET
- SOLID SURFACE COUNTERTOP & BACKSPASH
- REFRIGERATOR
- CERAMIC TILE
- SOLID SURFACE COUNTER W/ INTEGRAL LAV & BACKSPASH
- A.D.A COMPLIANT WATER CLOSET
- SINGLE COMPARTMENT SINK
- MIRROR
- STACKABLE DRYER
- BUILT-IN PLASTIC LAMINATE CABINET
- WALL MOUNTED BRACKET
- WALL MOUNTED LIGHT FIXTURE
- UTILITY SINK
- MOP SINK WITH STAINLESS STEEL PANEL
- STACKABLE WASHER
- CEILING FAN
- TELEVISION (N.I.C.) PROVIDE BLOCKING
- BUILT-IN BED BASE CABINET
- ADA COMPLIANT SINGLE COMPARTMENT SINK
- MOP RACK
- WIRE LOCKERS
- DISHWASHER
- STAINLESS STEEL WORK BENCH
- FRP PANELS, FULL HEIGHT
- STAINLESS STEEL SHELVES
- SHOWER CURTAIN ROD
- BUILT-IN PLASTIC LAMINATE OPEN SHELVING CABINET
- SOLID SURFACE SHOWER ENCLOSURE
- ELECTRICAL OUTLET, REFER TO POWER PLAN
- SOLID SURFACE SHOWER SHELF
- SHOWER HEAD
- BUILT-IN PLASTIC LAMINATE LOCKERS
- CABINET MOUNTED DOUBLE OVEN
- MICROWAVE OVEN
- BASE PER SCHEDULE
- SOLID SURFACE COUNTERTOP
- ELECTRIC COOKTOP
- STEM MOUNT LIGHT FIXTURE, REFER TO ELECTRICAL
- CAD ALERT - MS MESSAGE REMOTE, REFER TO CAD ALERT PLAN
- PLASTIC LAMINATE SHELF
- SOAP DISPENSER
- FRONT LOADING DISHWASHER
- 18" LONG VER GRAB BAR
- 36" HORIZONTAL GRAB BAR
- 42" HORIZONTAL GRAB BAR
- 48" HORIZONTAL GRAB BAR
- ADA FRAMED MIRROR
- SANITARY NAPKIN DISPOSAL
- WASTE RECEPTACLE
- TOILET SEAT COVER DISPENSER
- TOILET PAPER DISPENSER

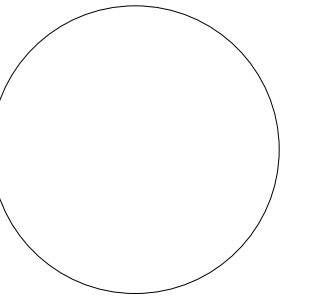


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520.882.9944

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

Preliminary Plans



PROJECT NO:
23.21.00
DATE:
JULY 2024

REVISION SCHEDULE:		
#	DATE	DESCRIPTION

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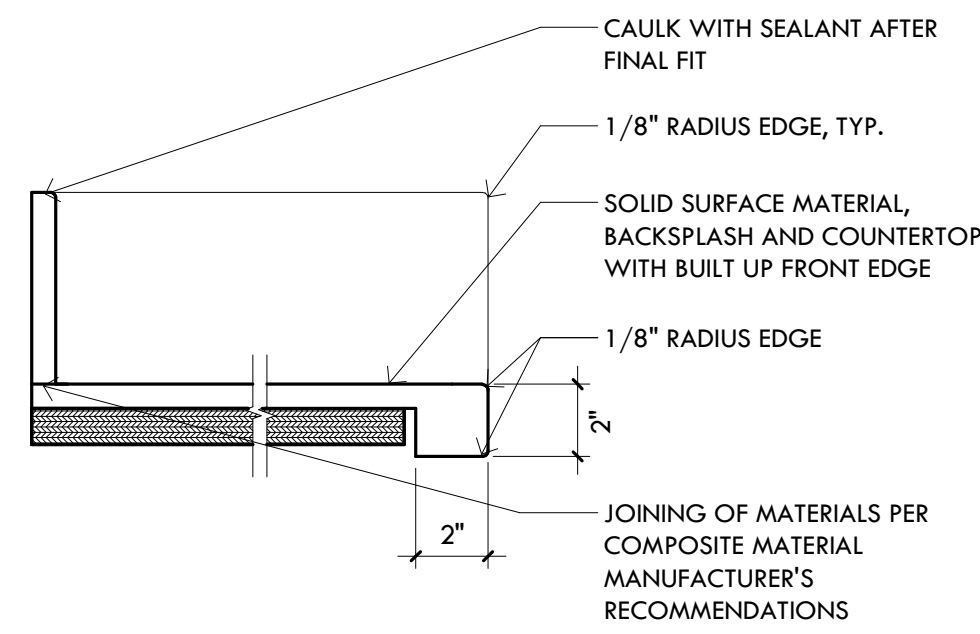
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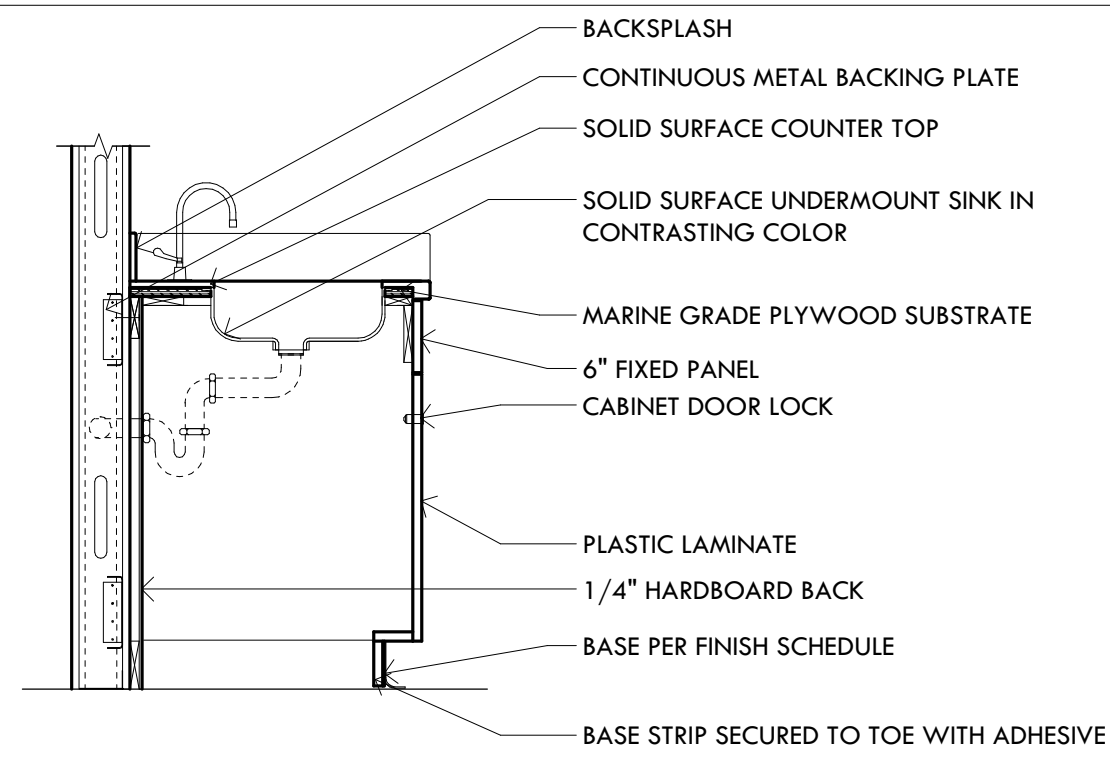
Interior Elevations

A3.3

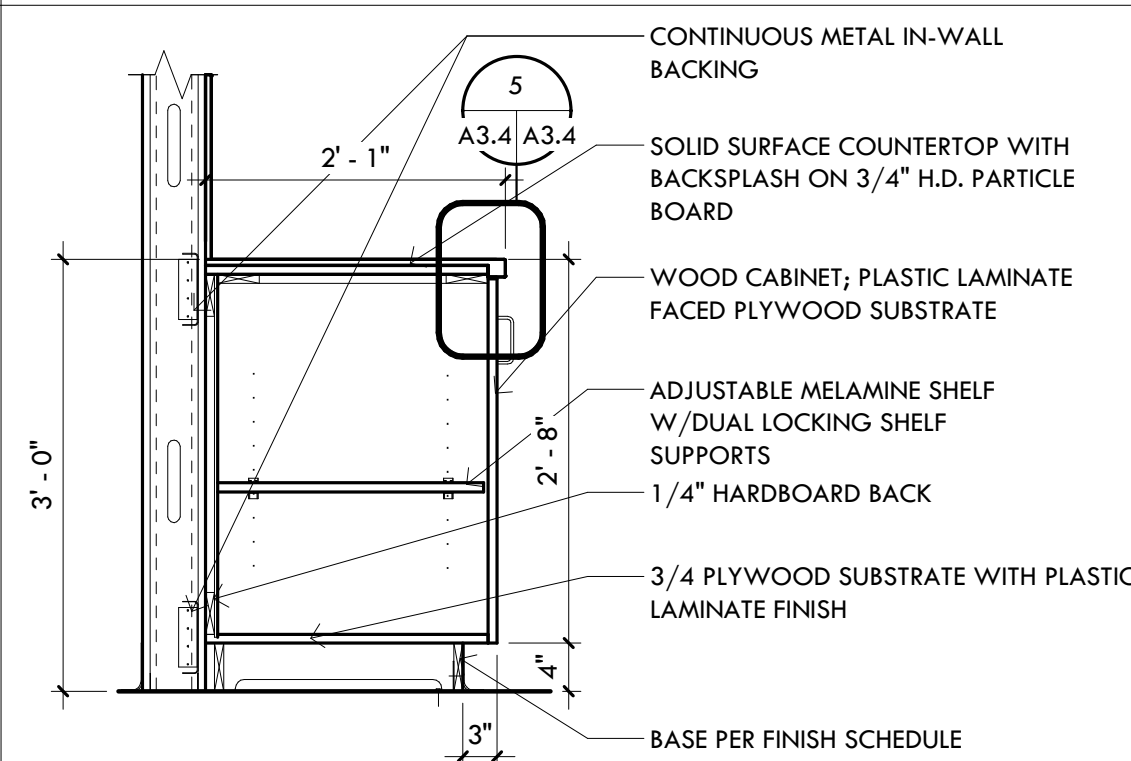
NOTE: EXTEND BACK SPLASH TO BOTTOM OF CABINET WHERE SHOWN ON ELEVATIONS - KITCHEN AND LAUNDRY AREA ONLY.



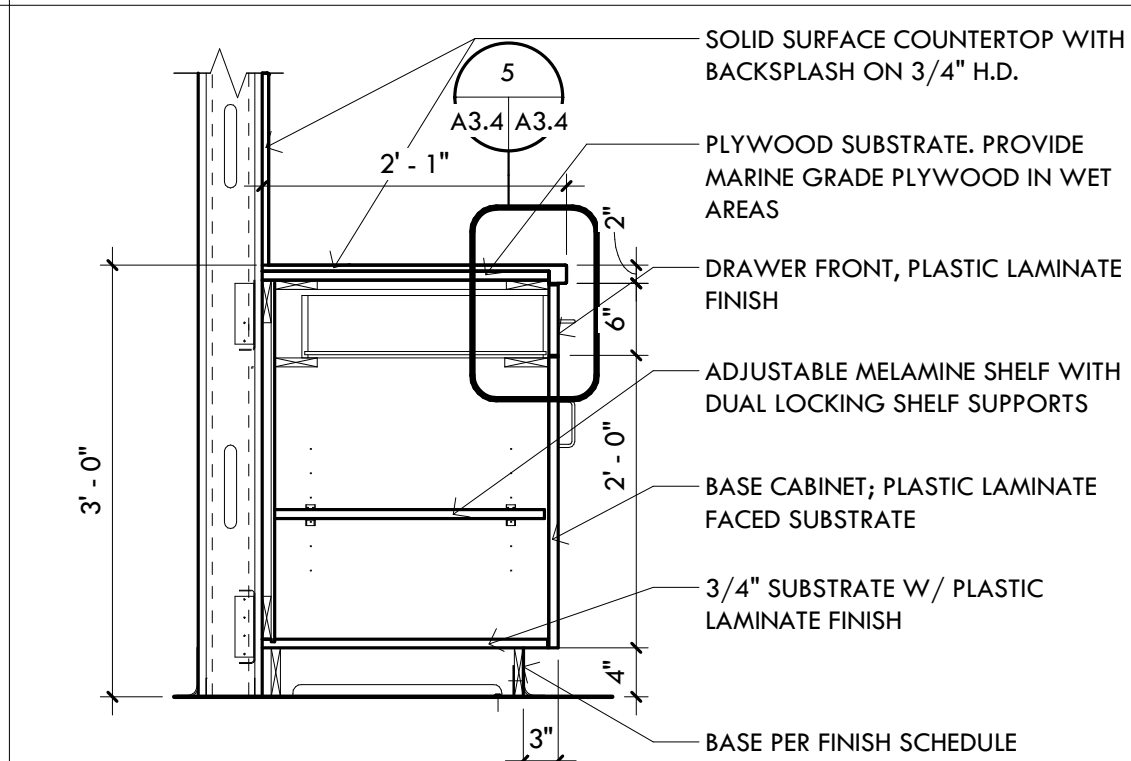
Solid Surface Countertop



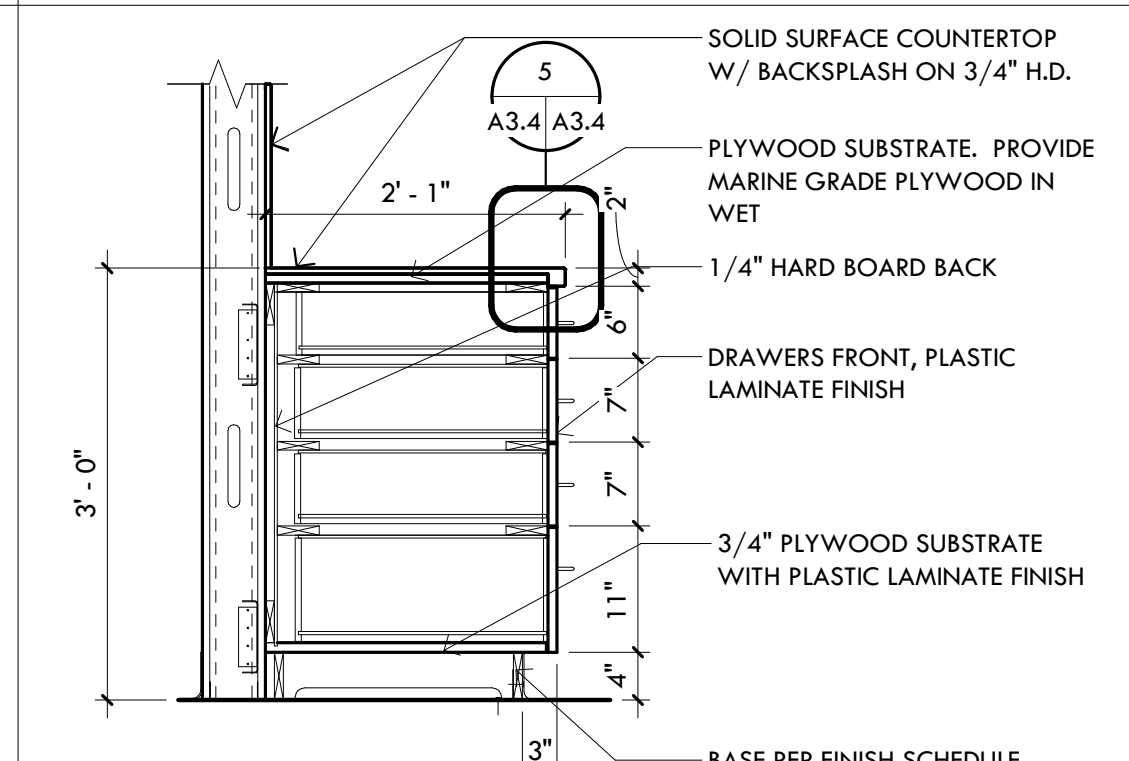
Base Cabinet With Sink



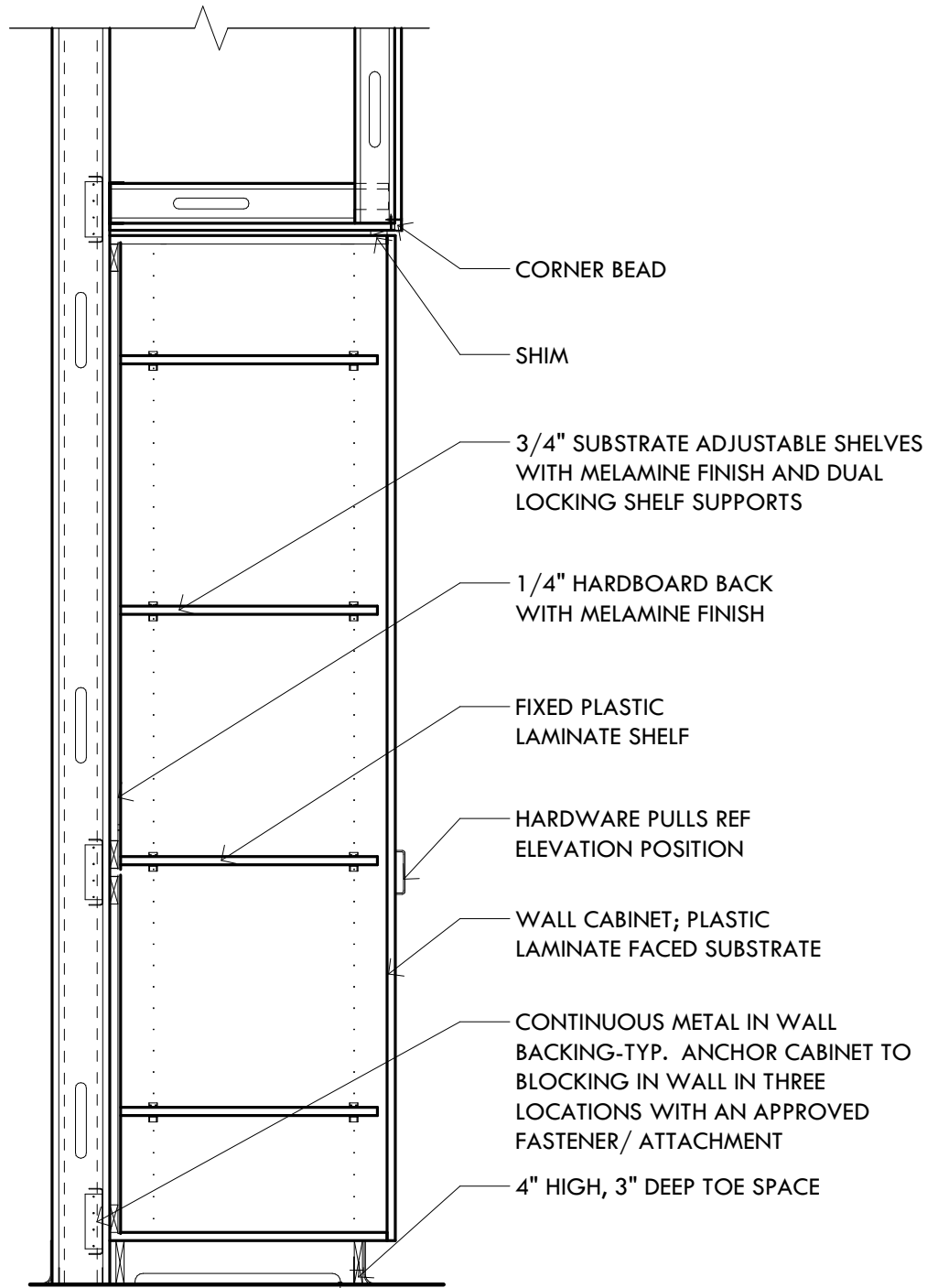
Base Cabinet 3



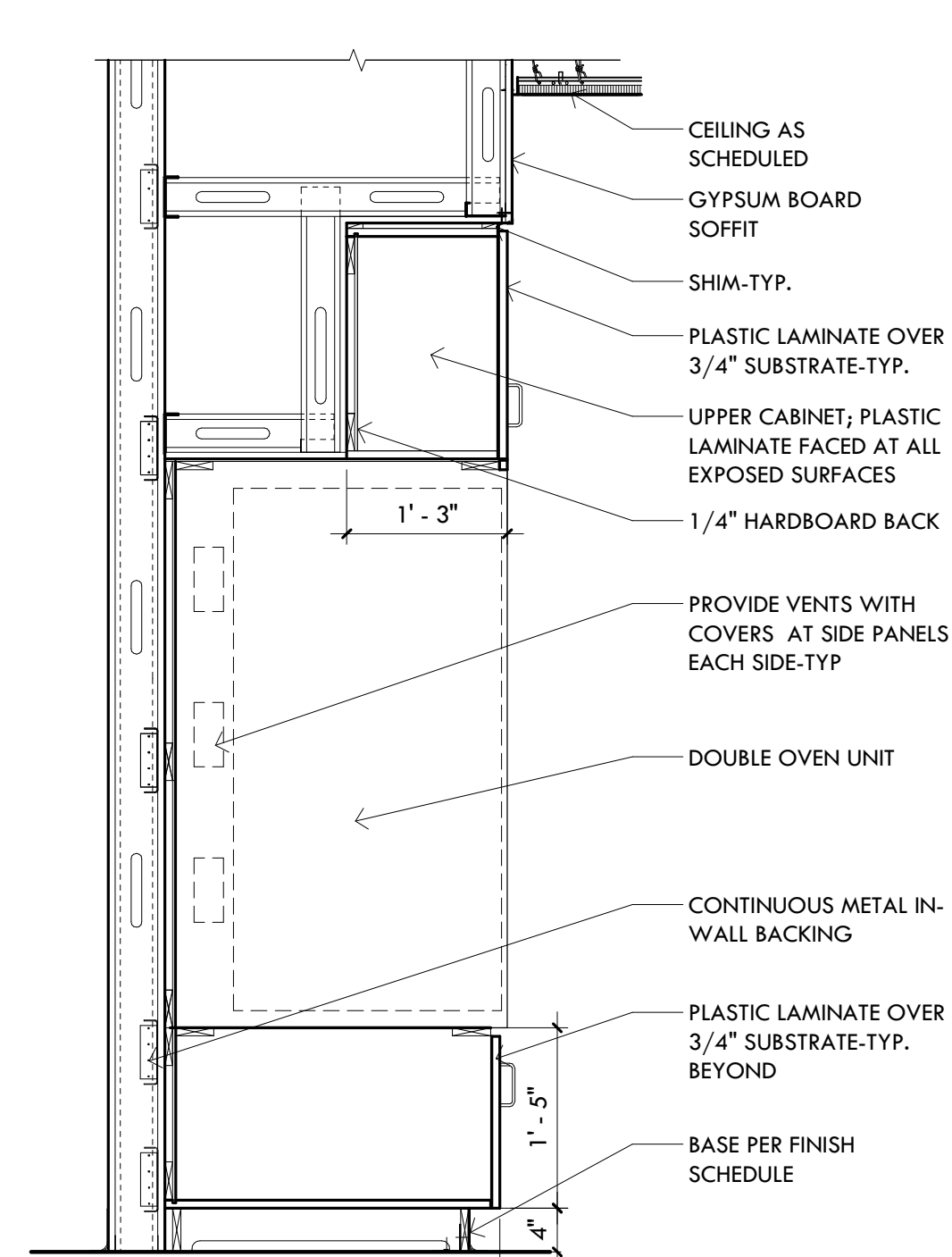
Base Cabinet 2



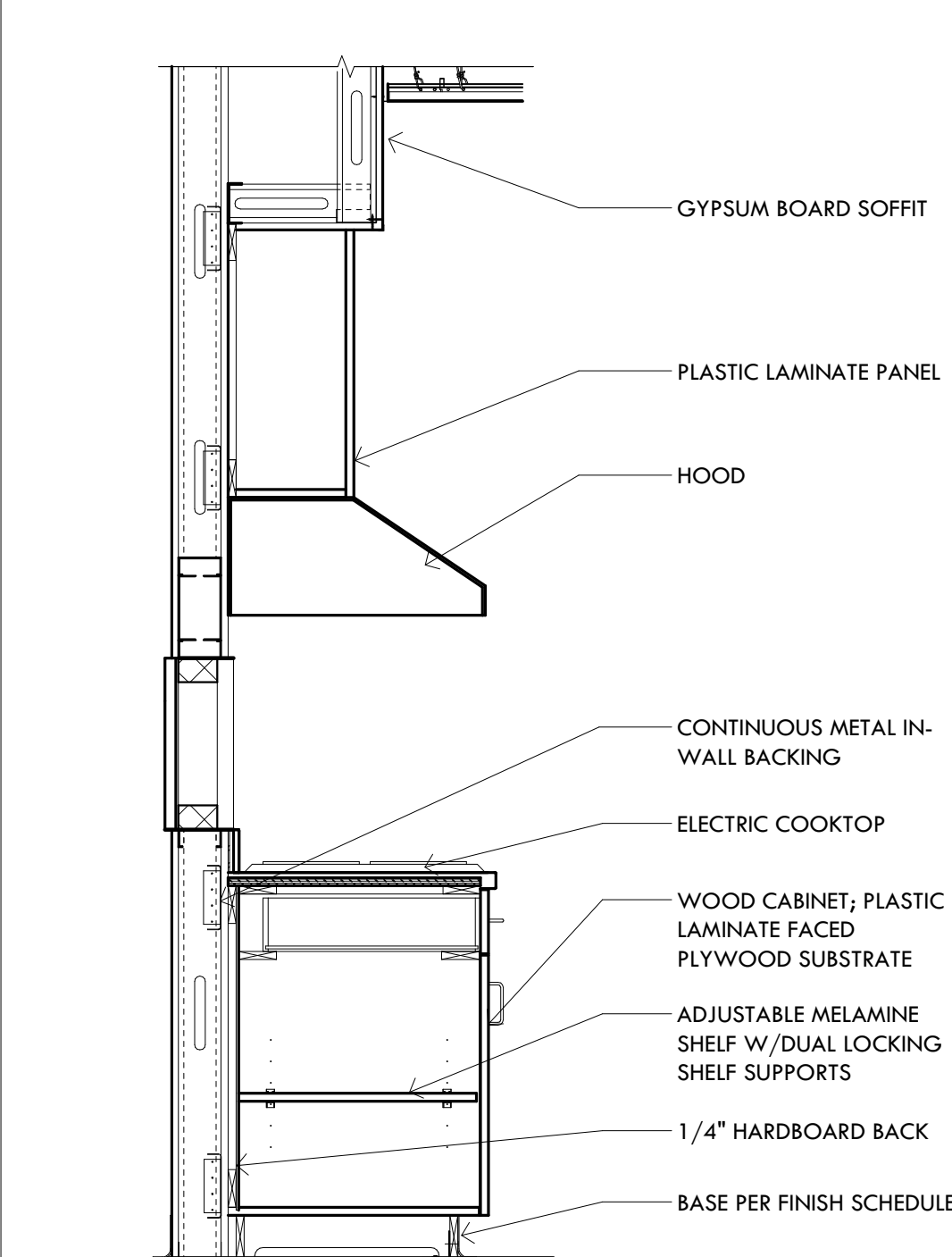
Base Cabinet 1



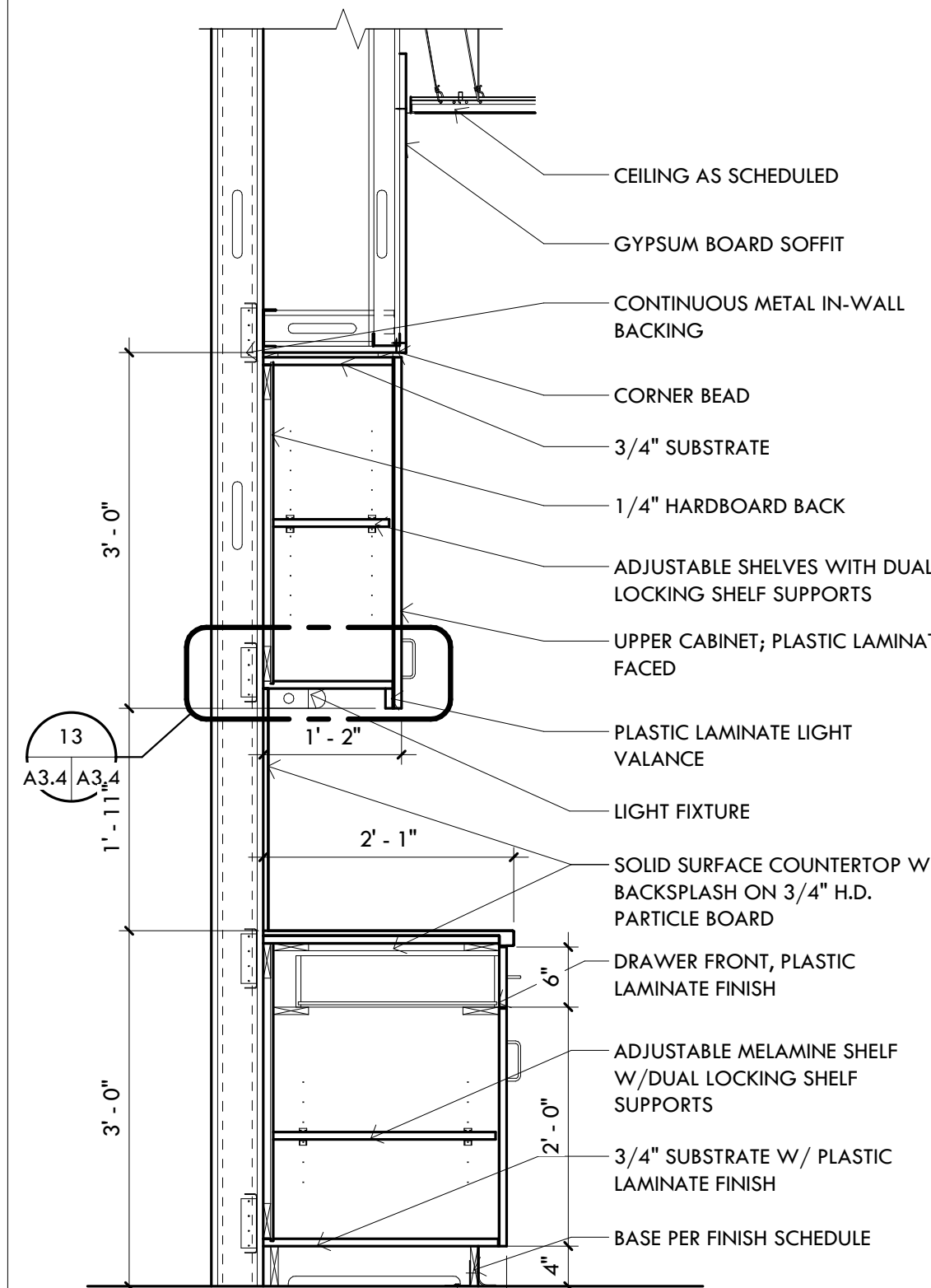
Full Height Cabinet



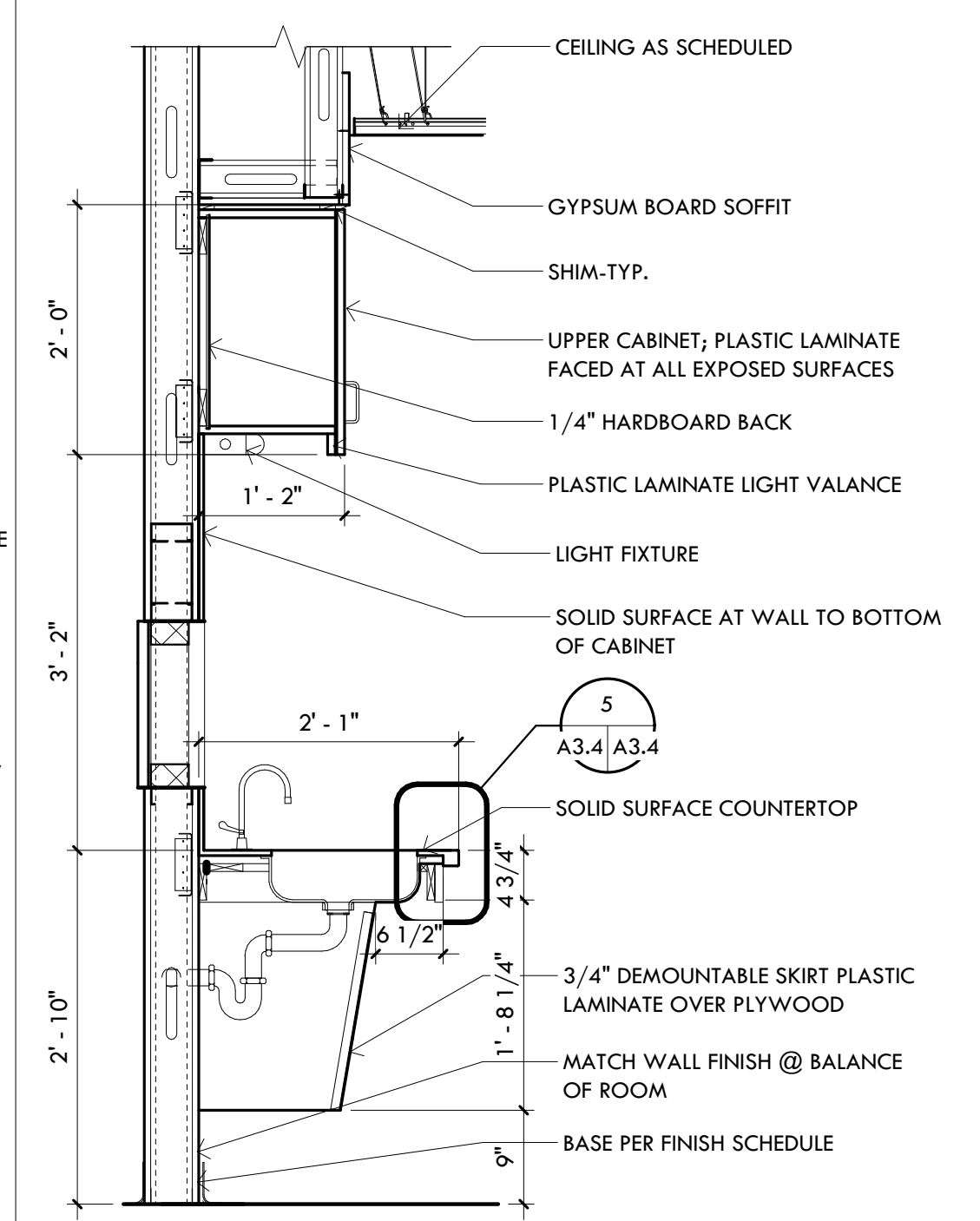
Oven Cabinet



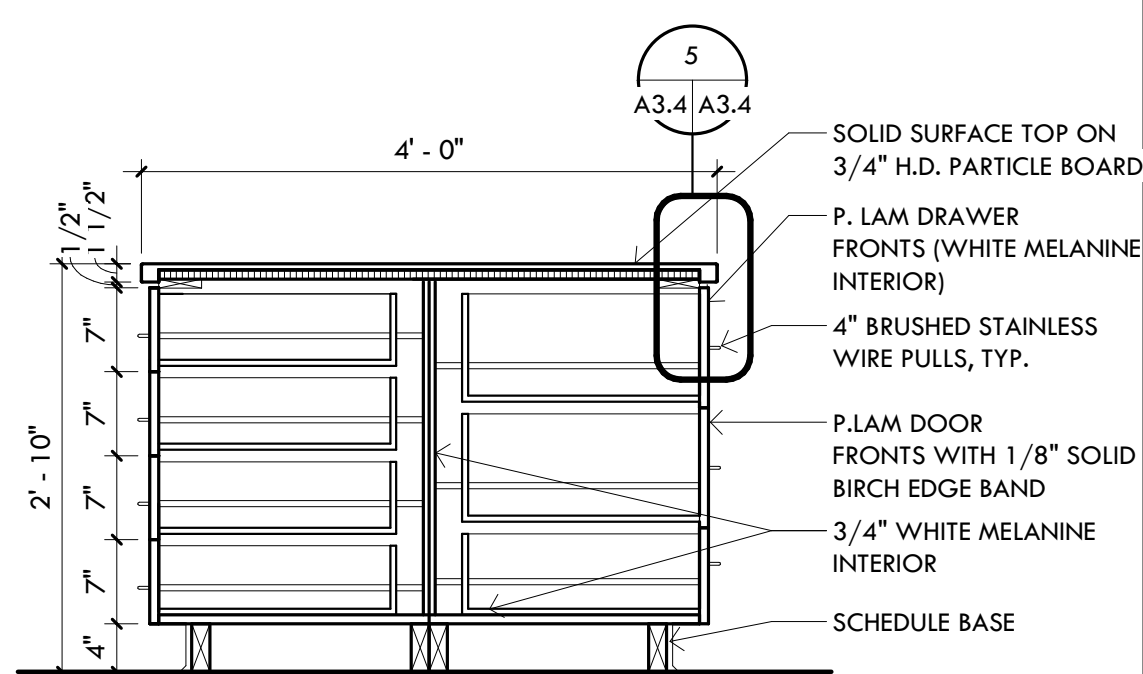
Cooktop Cabinet



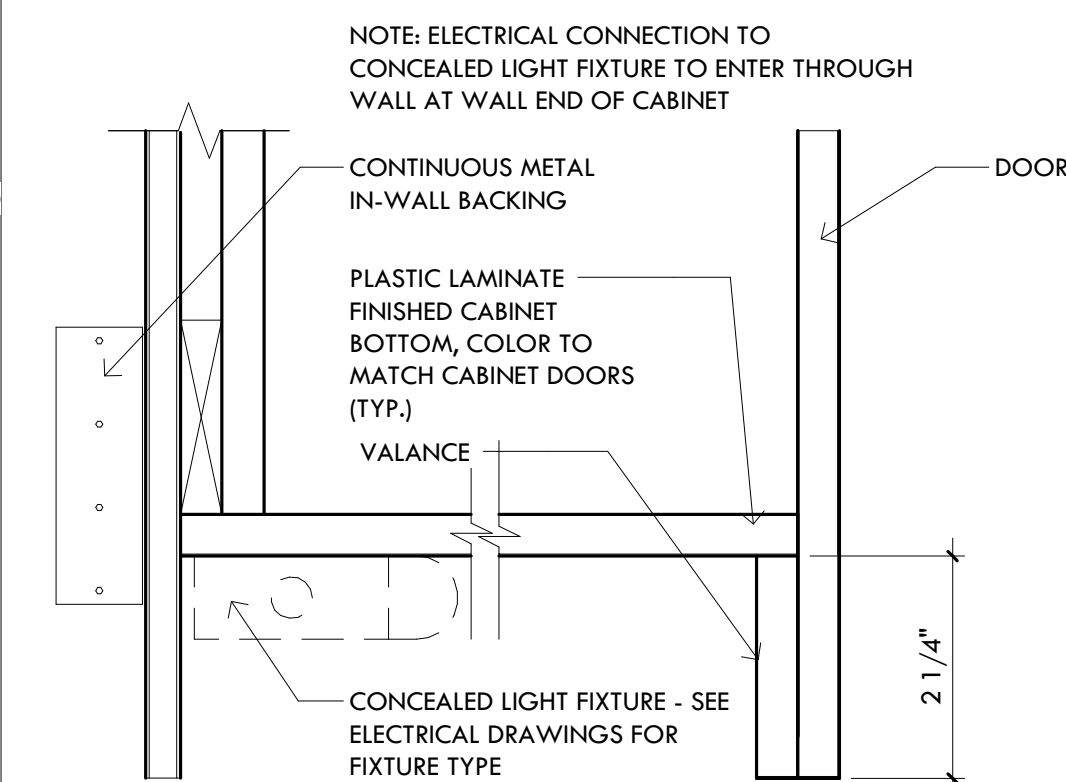
Upper Cabinet



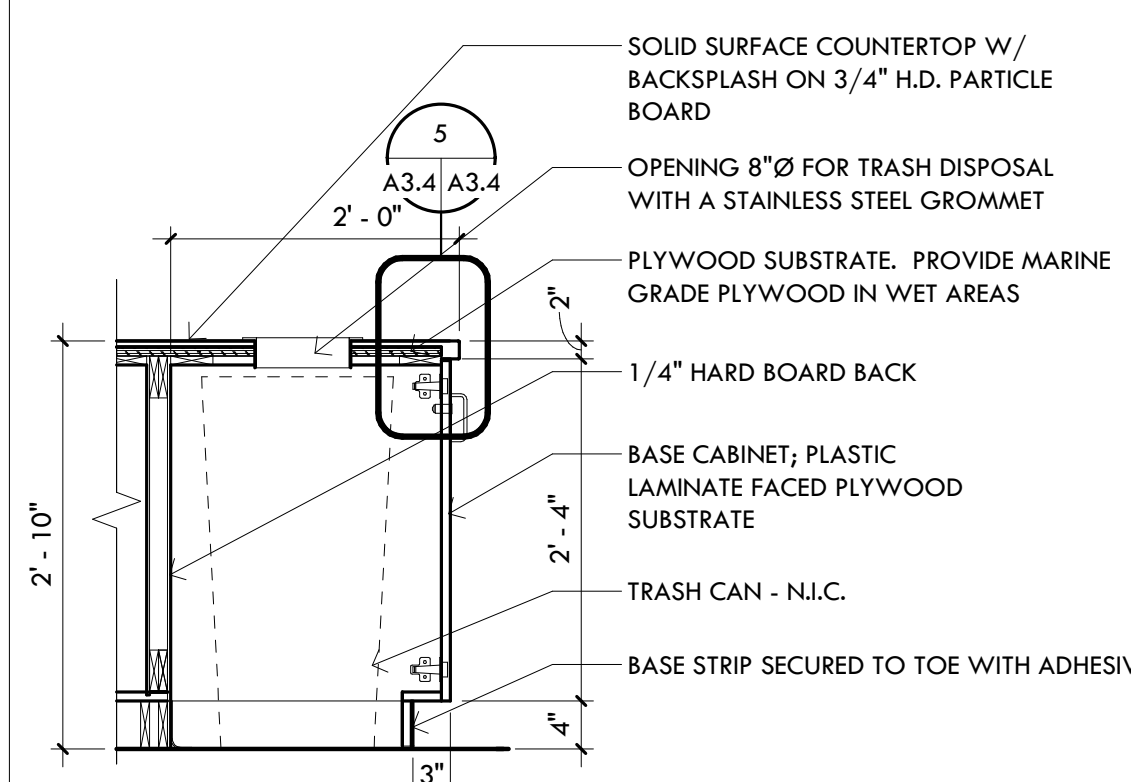
Sink Cabinet



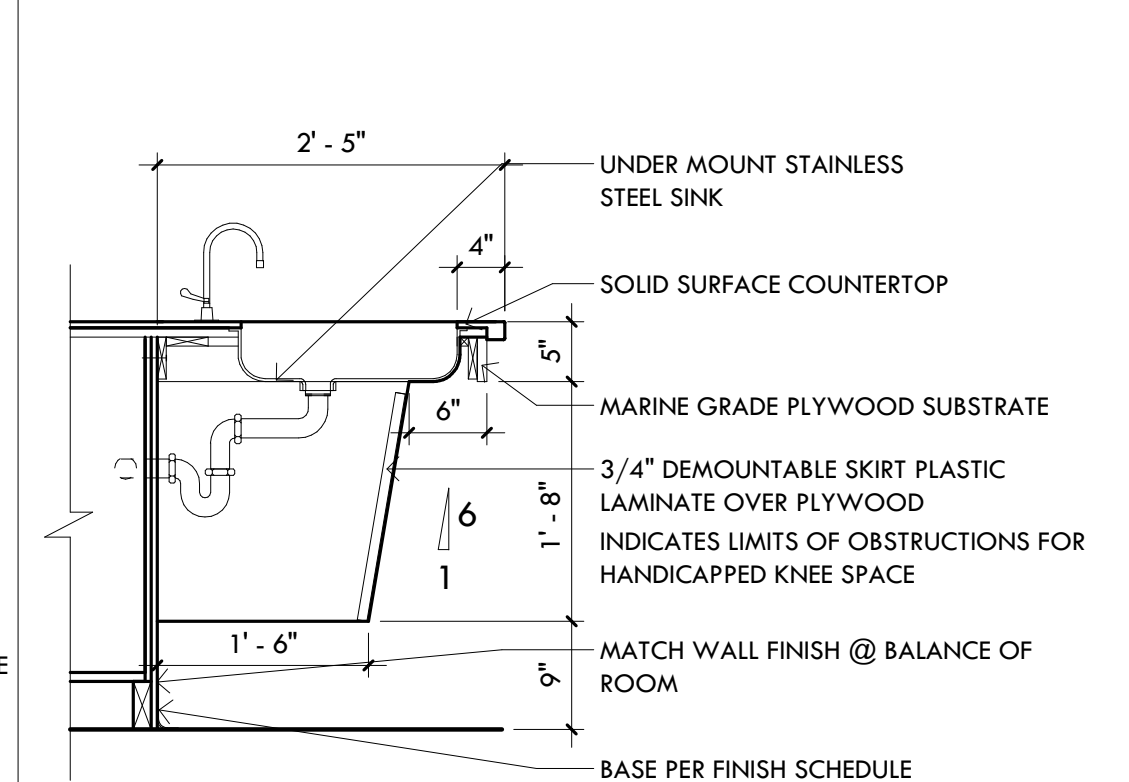
Kitchen Island



Upper Cabinet Task Light



Island Base Cabinet - Trash



Island Cabinet With Sink

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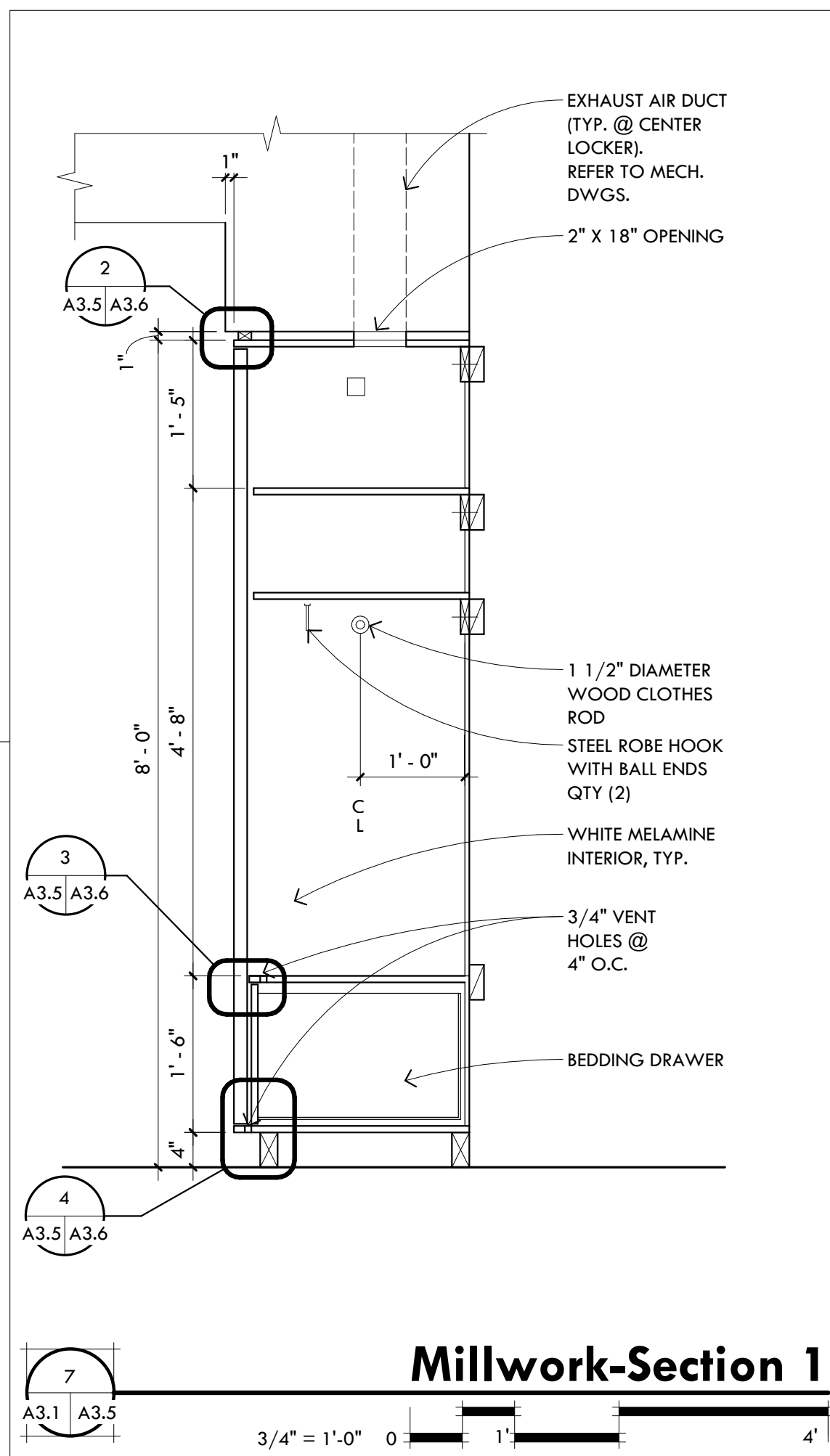
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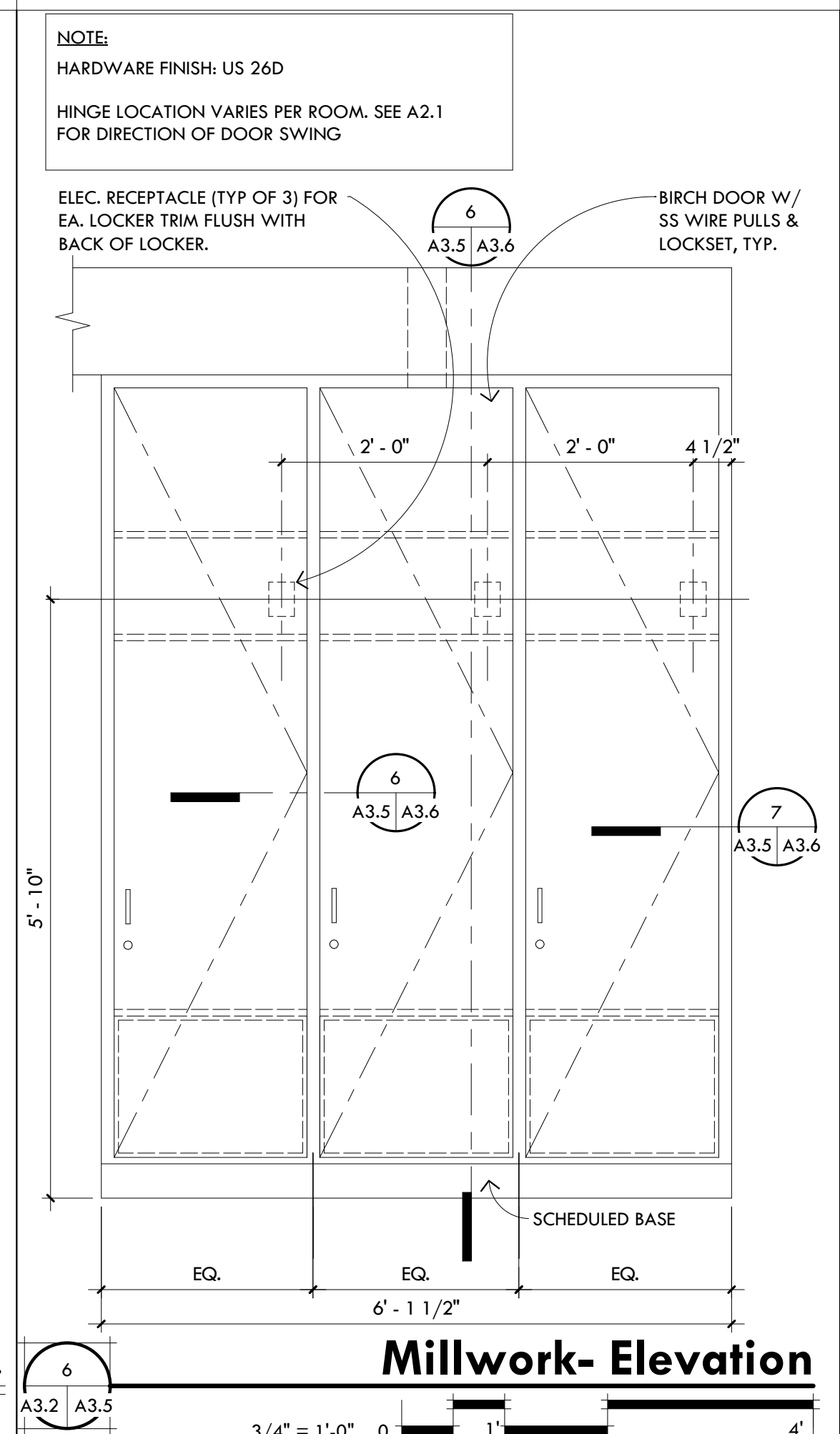
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Interior Details
A3.4

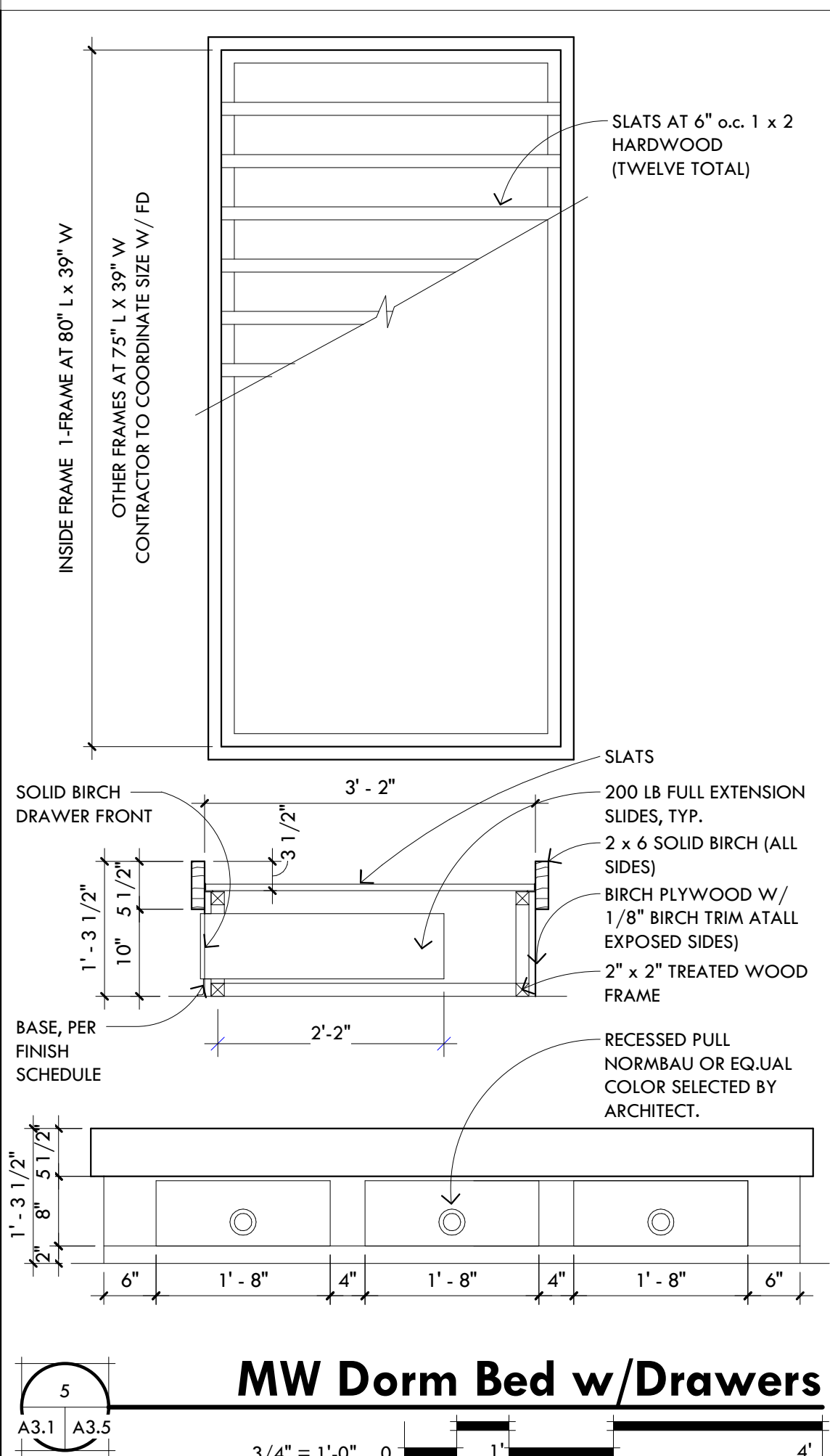
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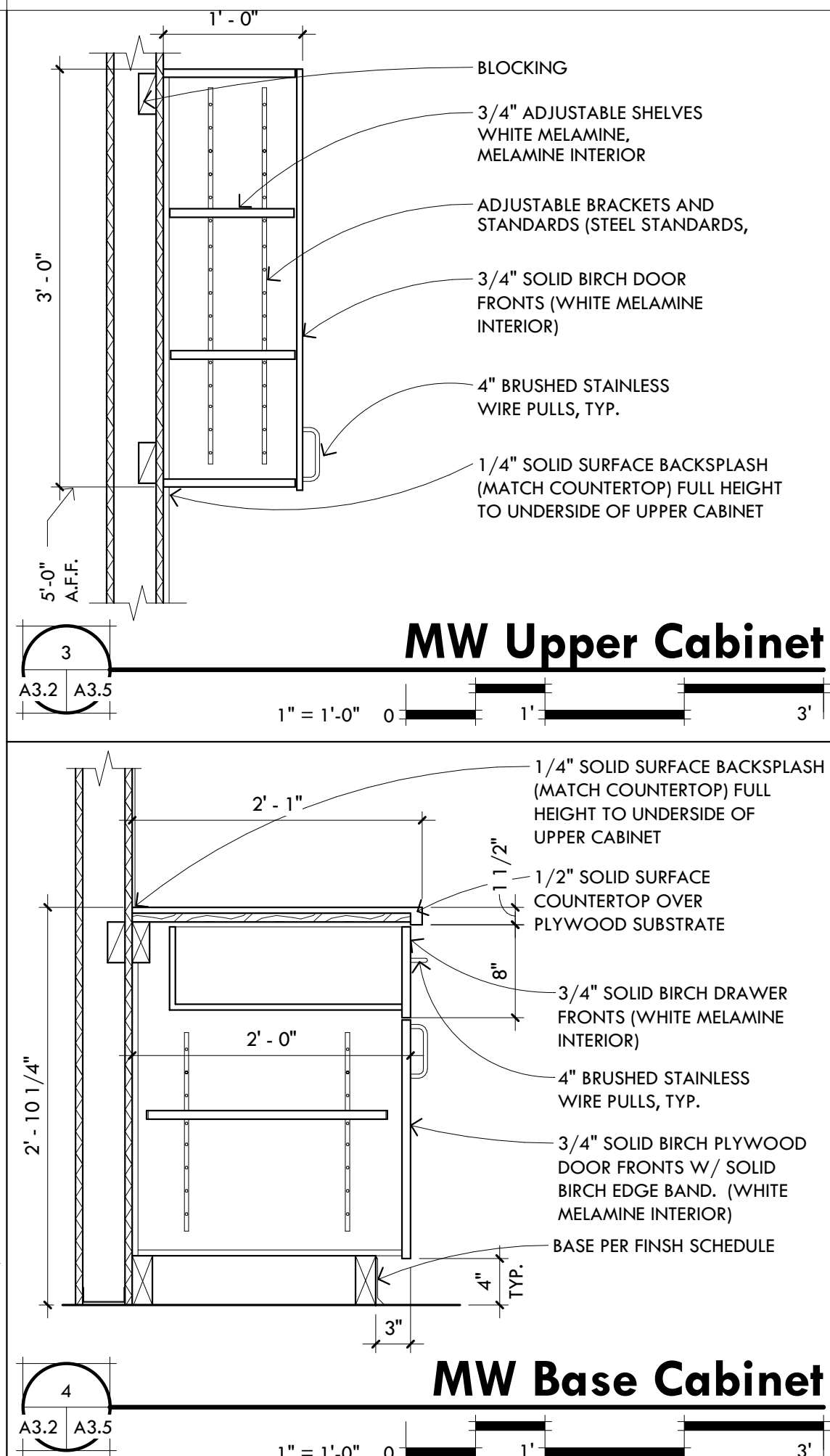
Millwork-Section 1



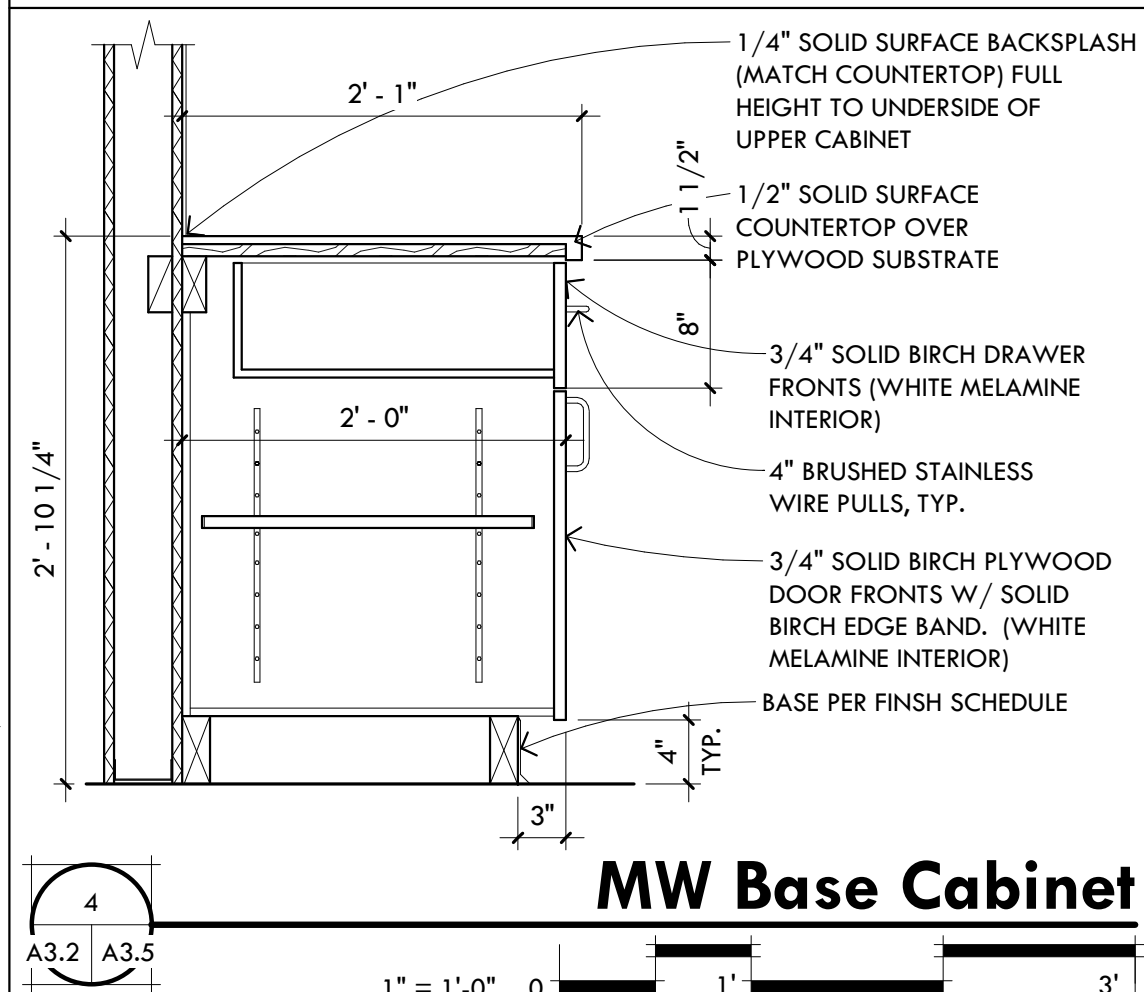
Millwork-Elevation



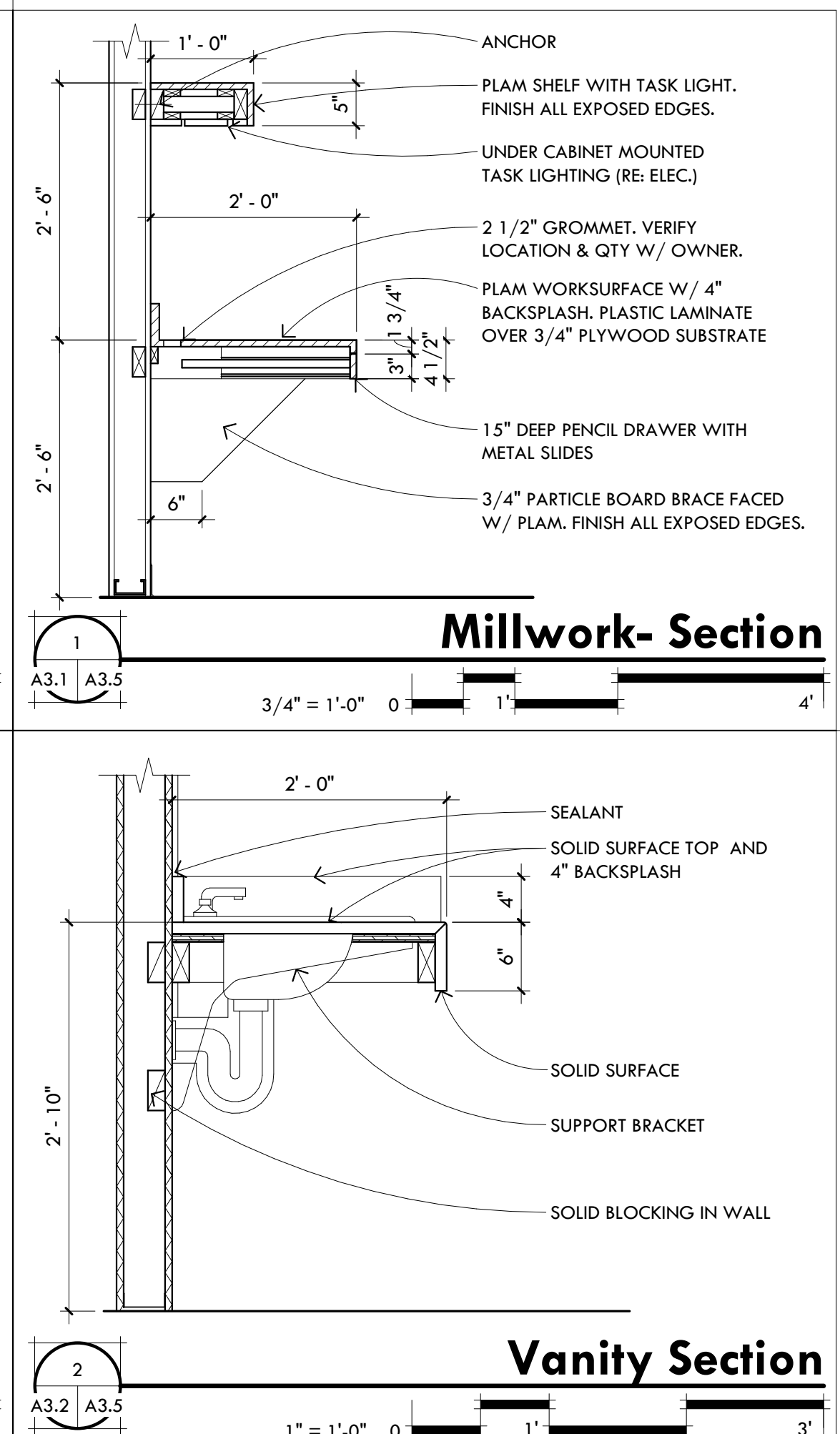
MW Dorm Bed w/Drawers



MW Upper Cabinet

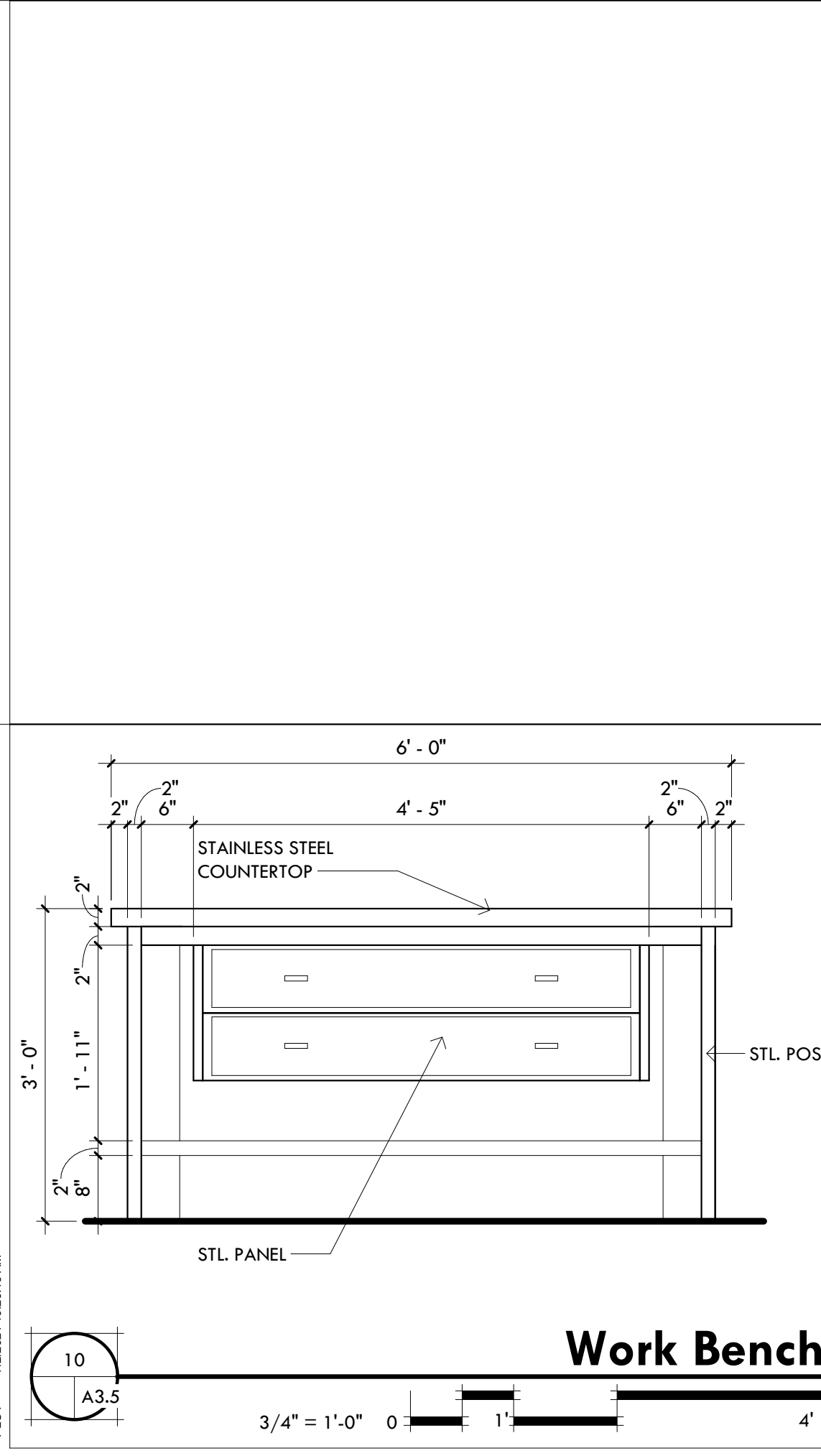


MW Base Cabinet

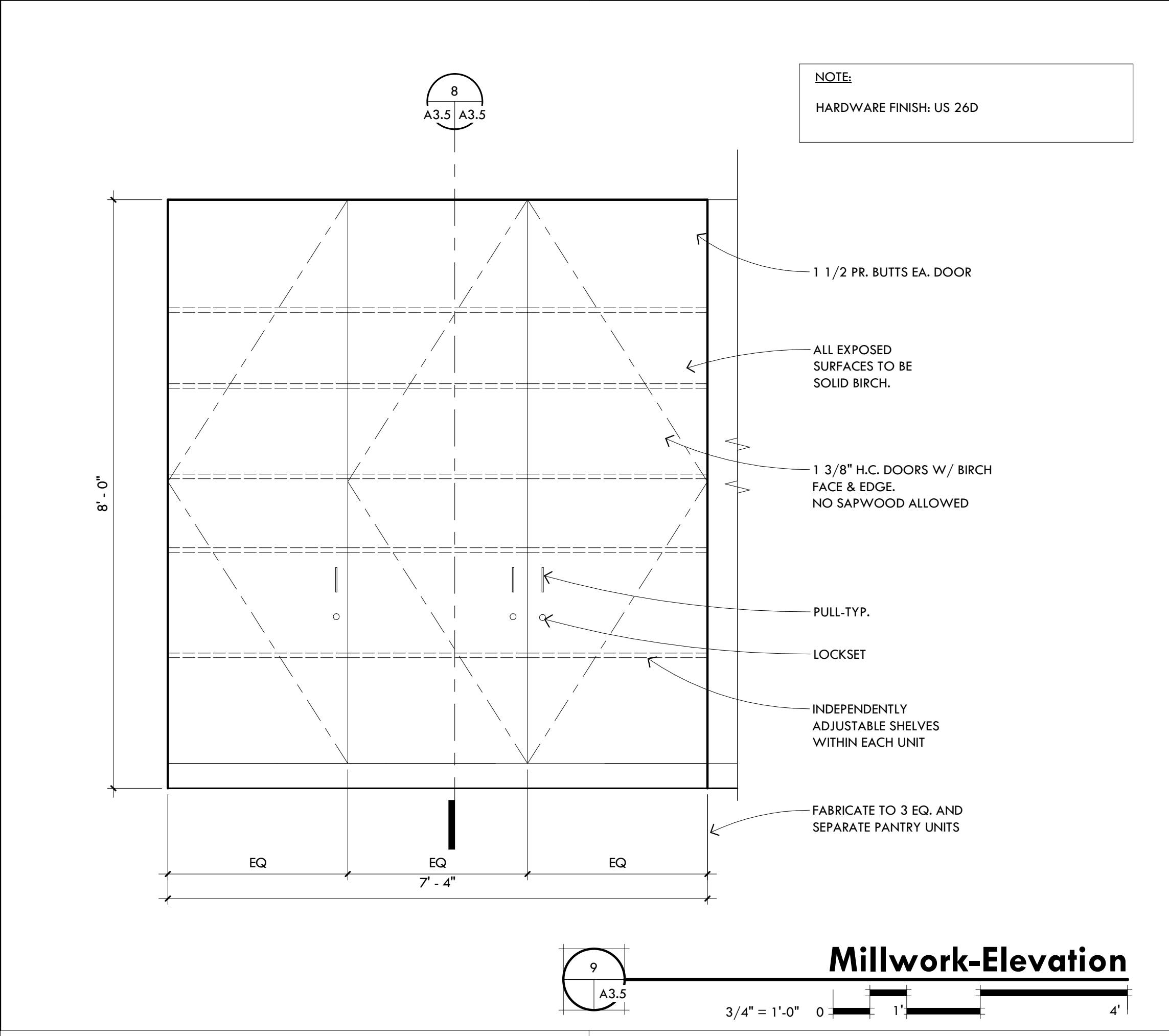


Millwork- Section

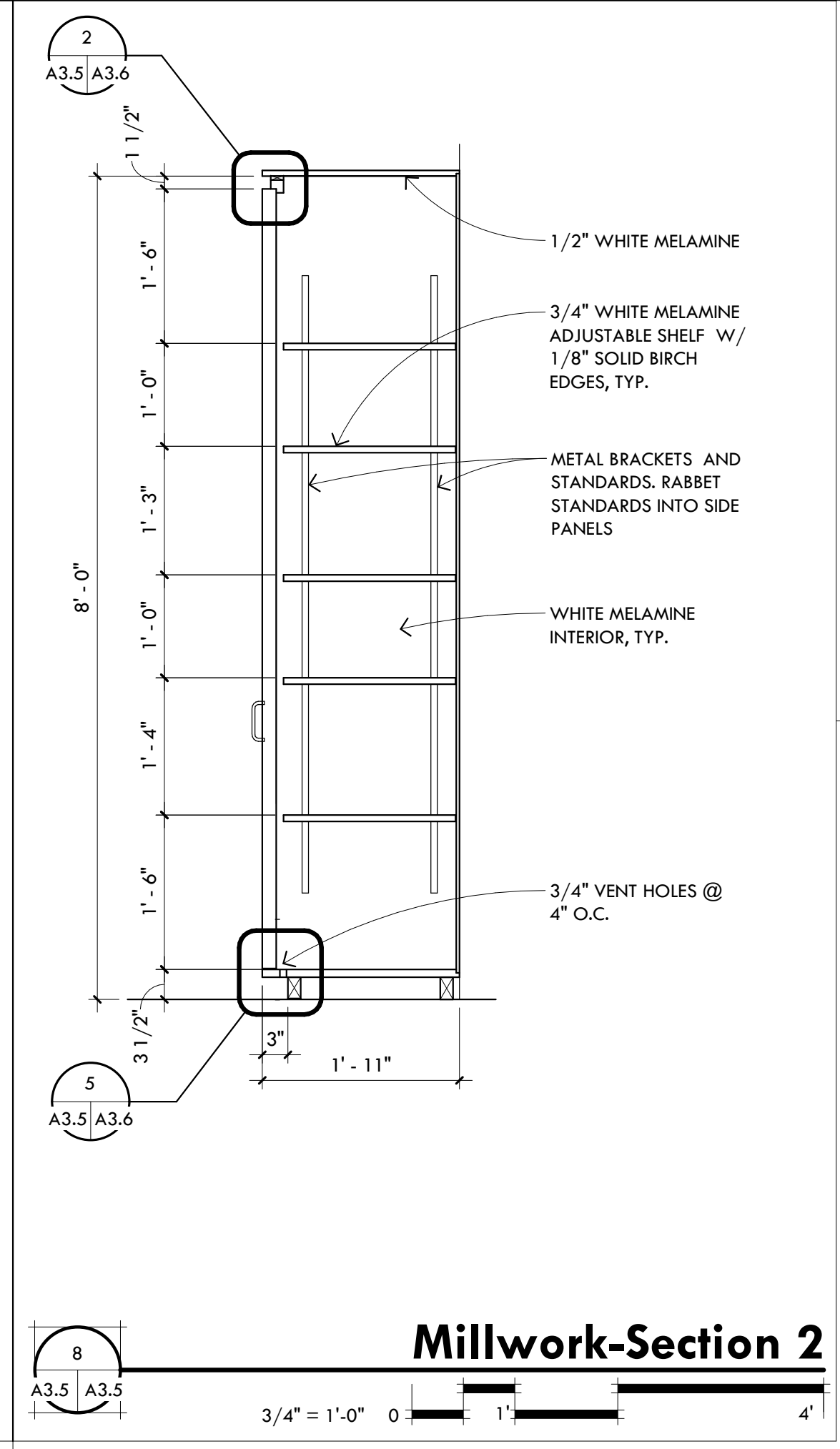
Vanity Section



Work Bench



Millwork-Elevation

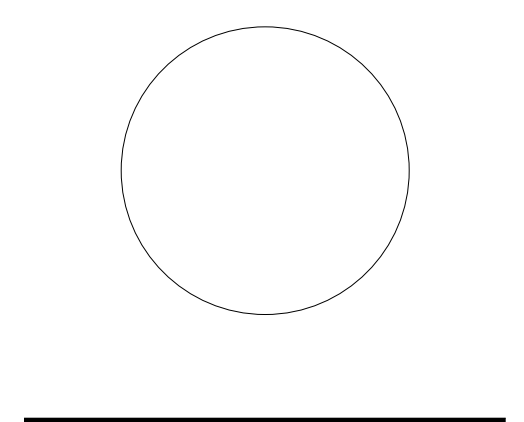


Millwork-Section 2

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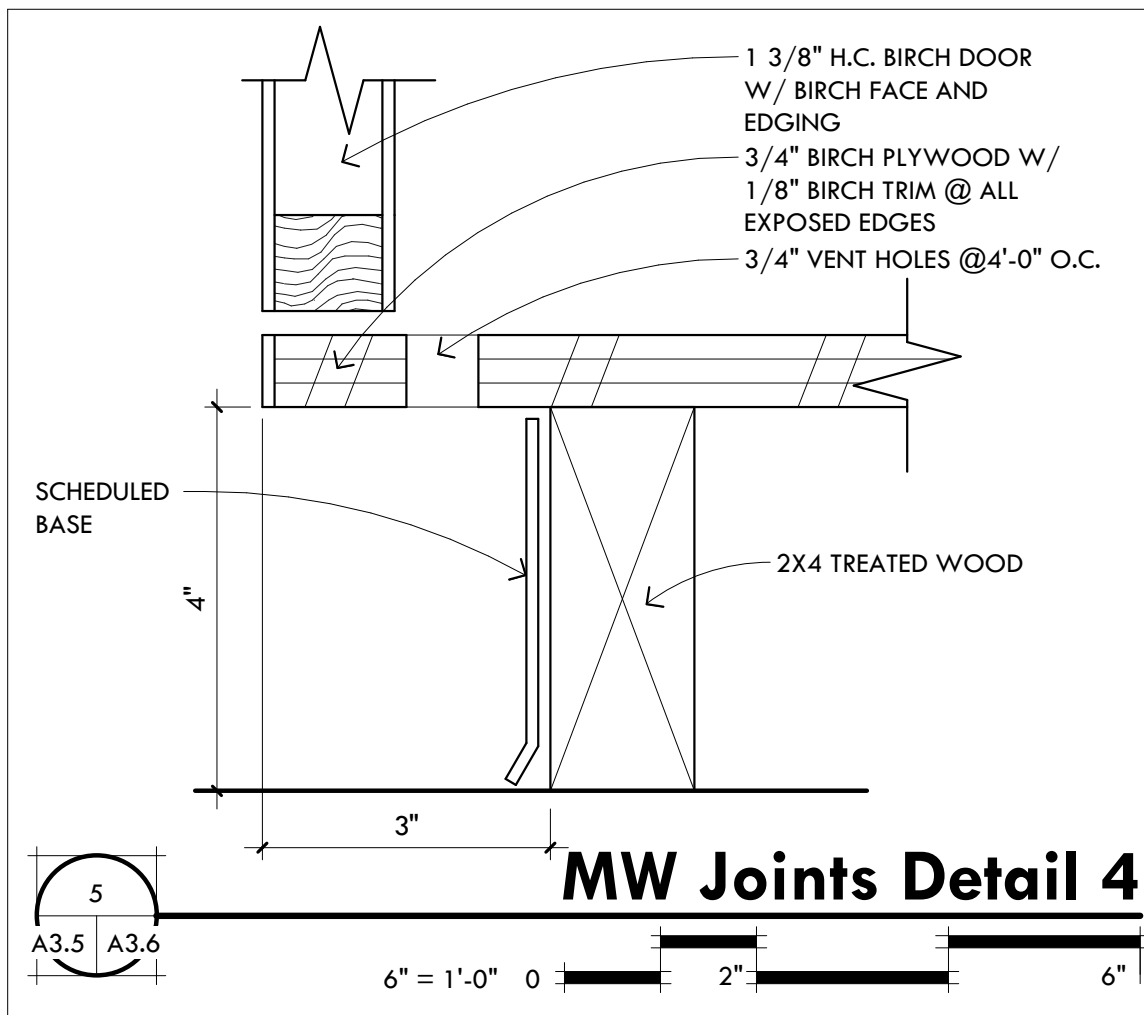
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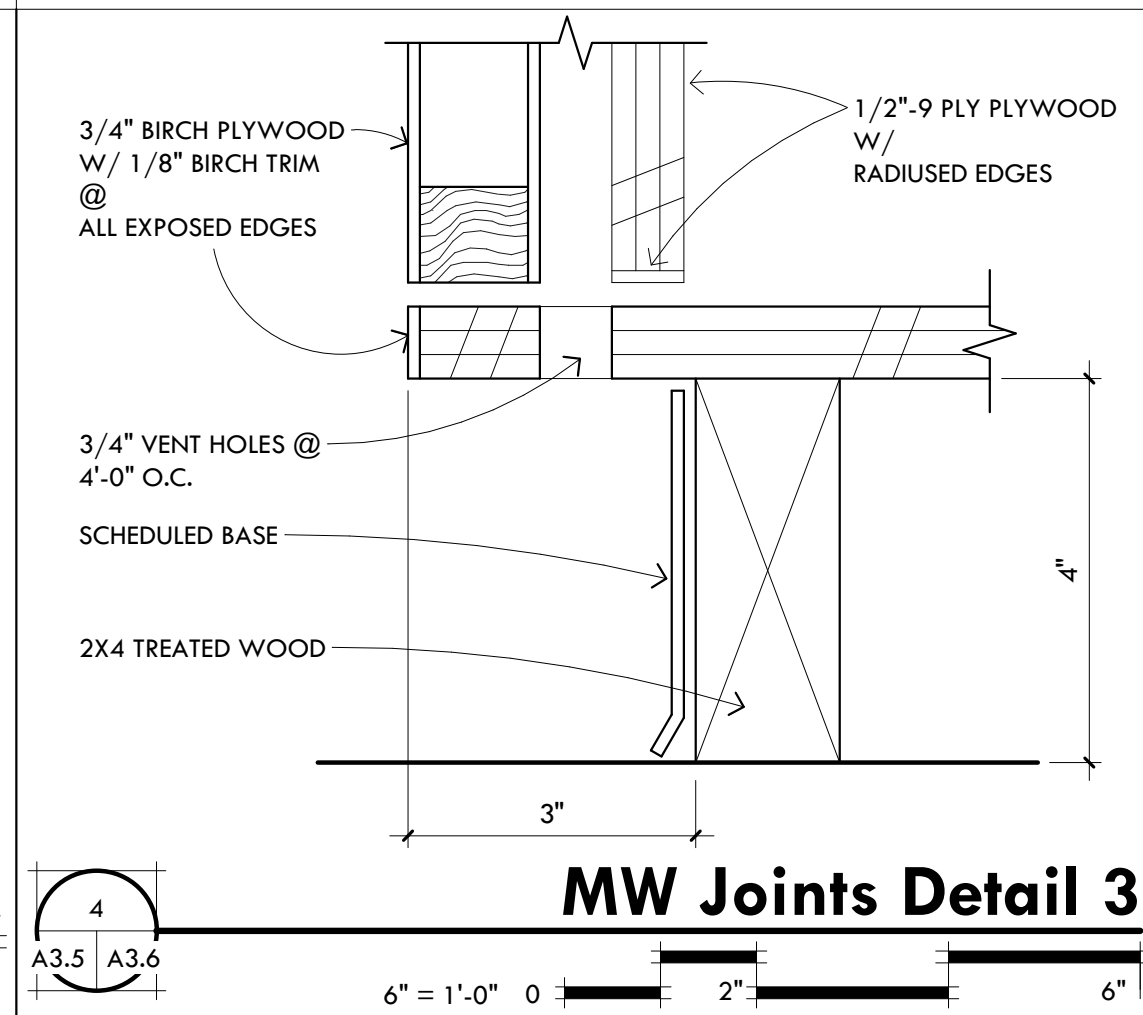
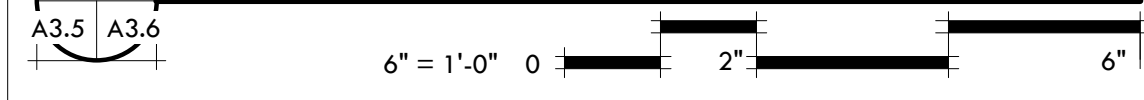
Millwork

A3.5

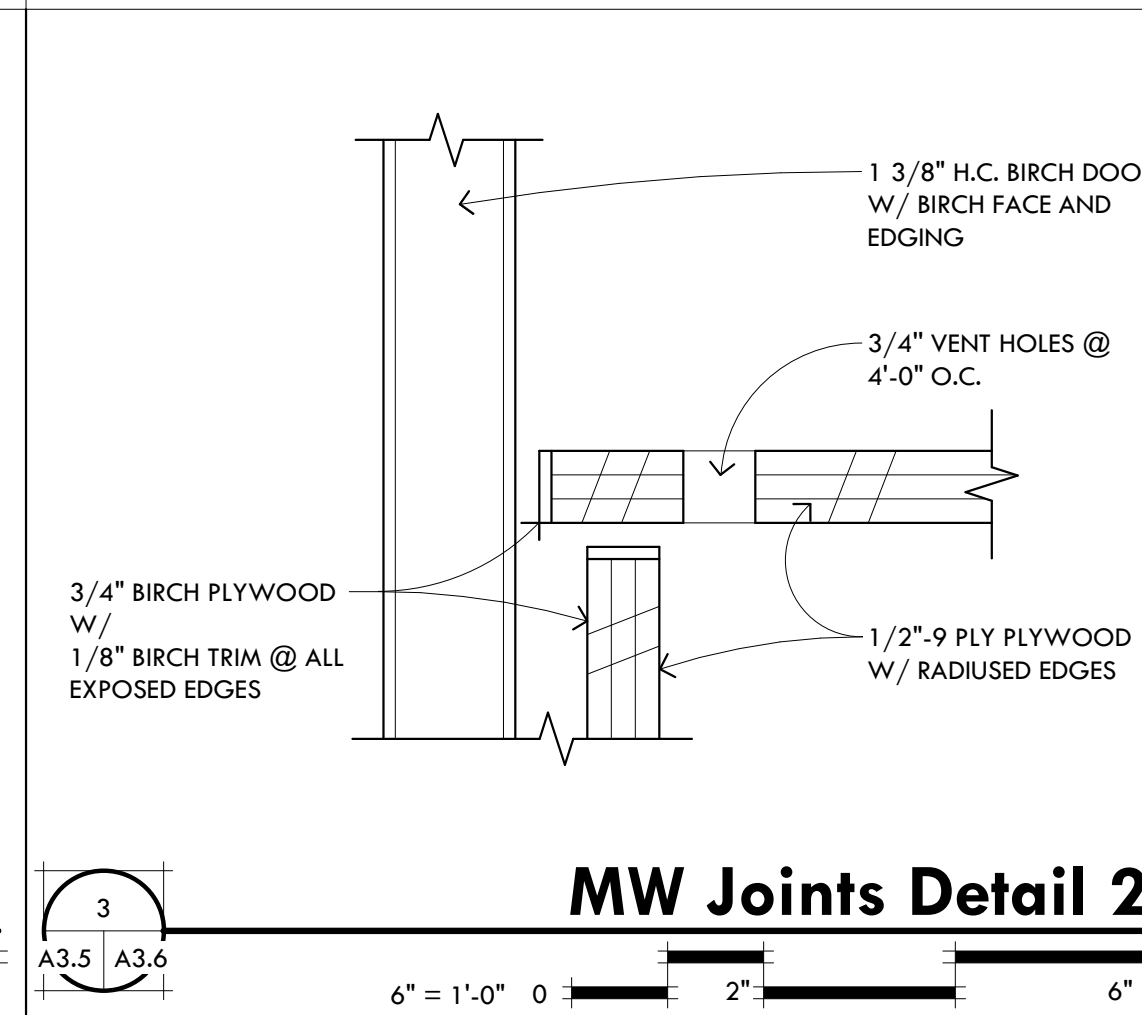
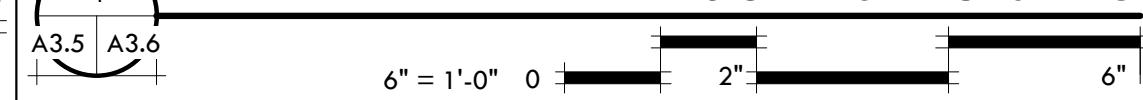
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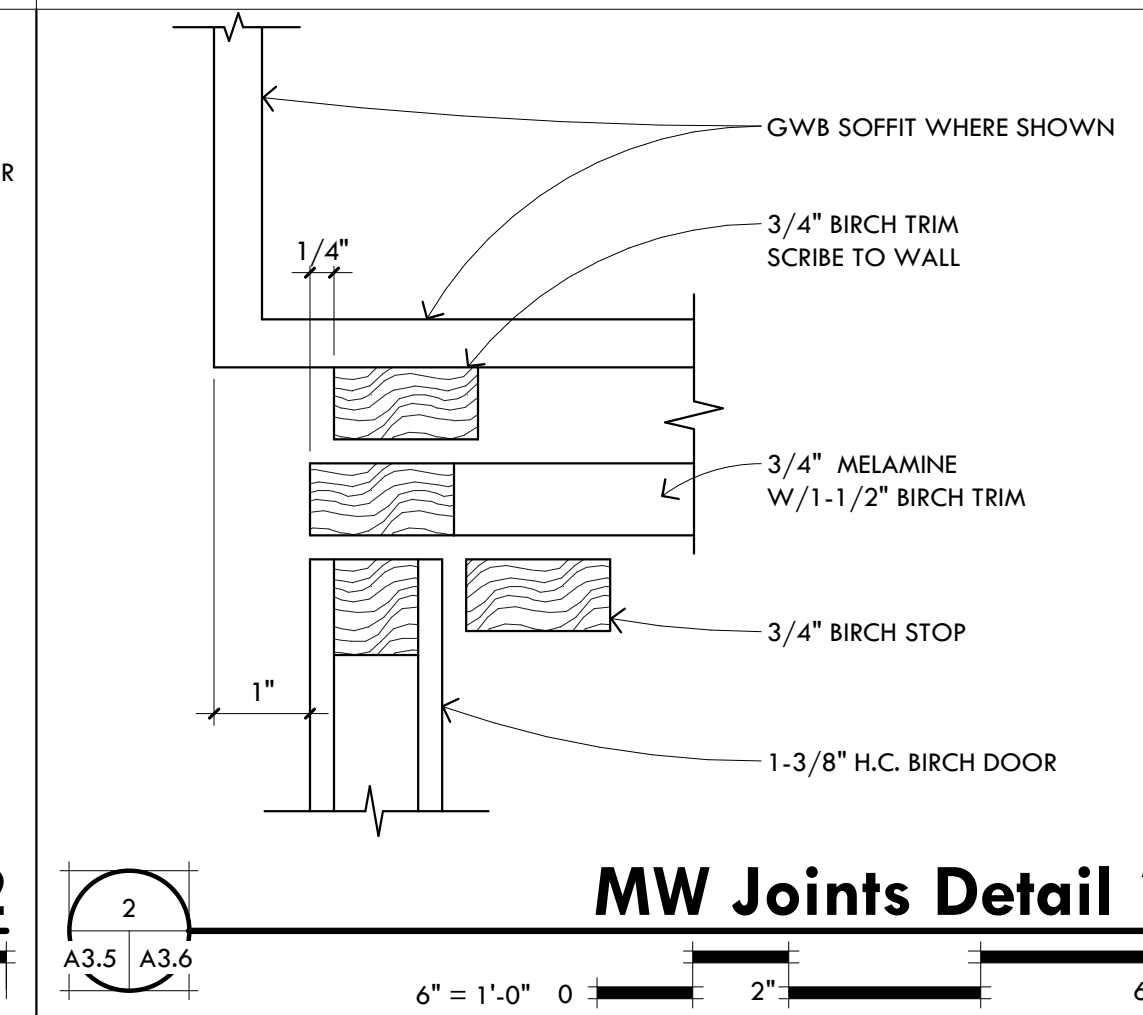
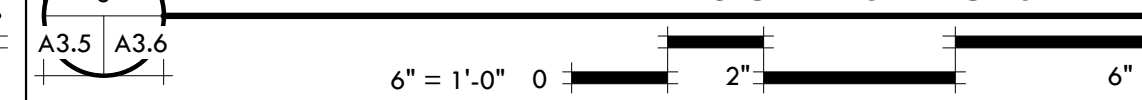
MW Joints Detail 4



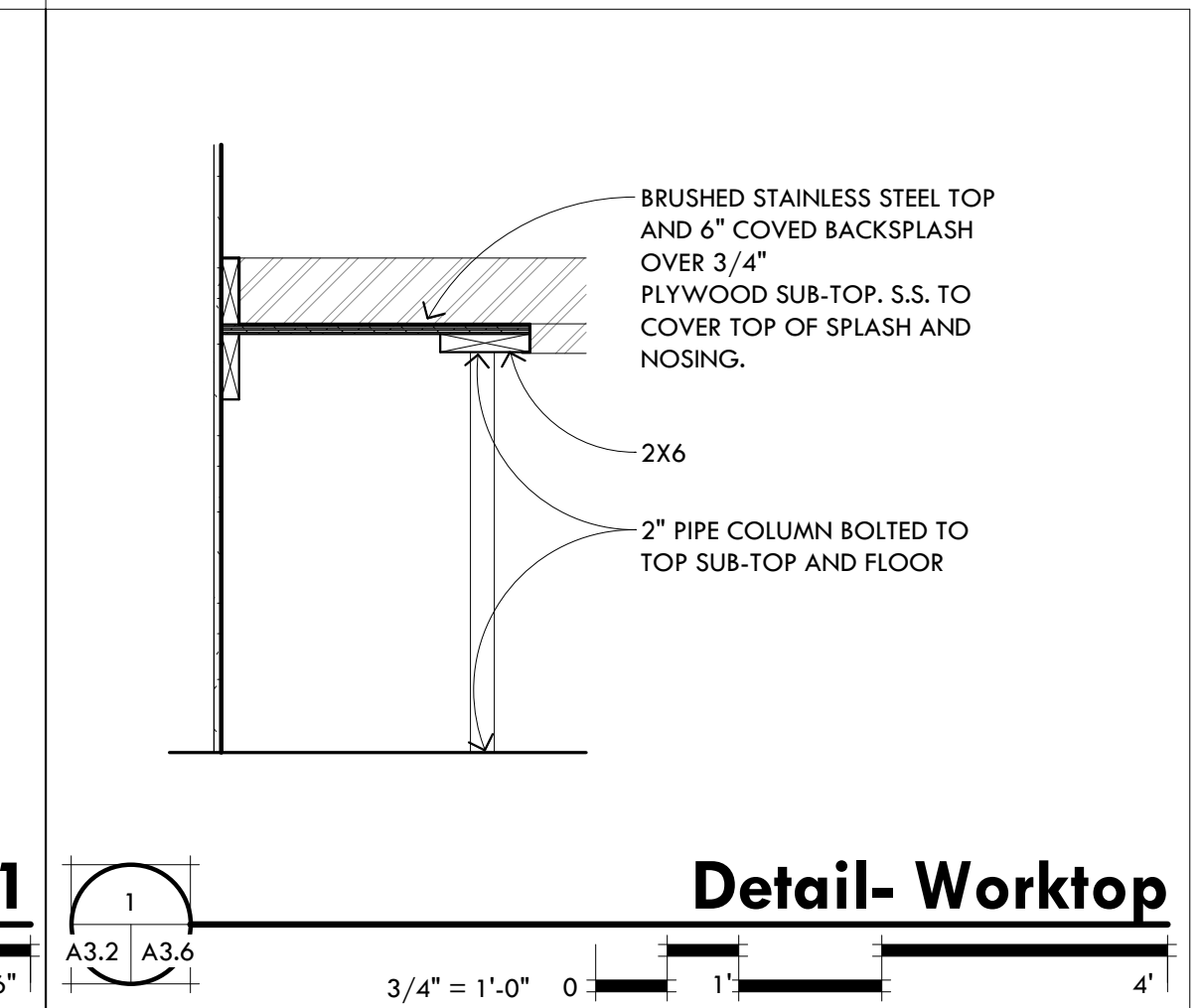
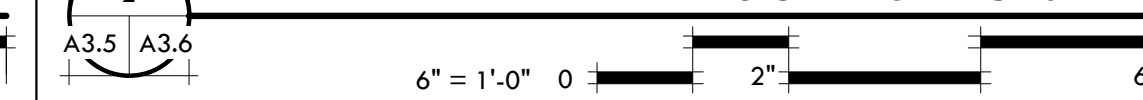
MW Joints Detail 3



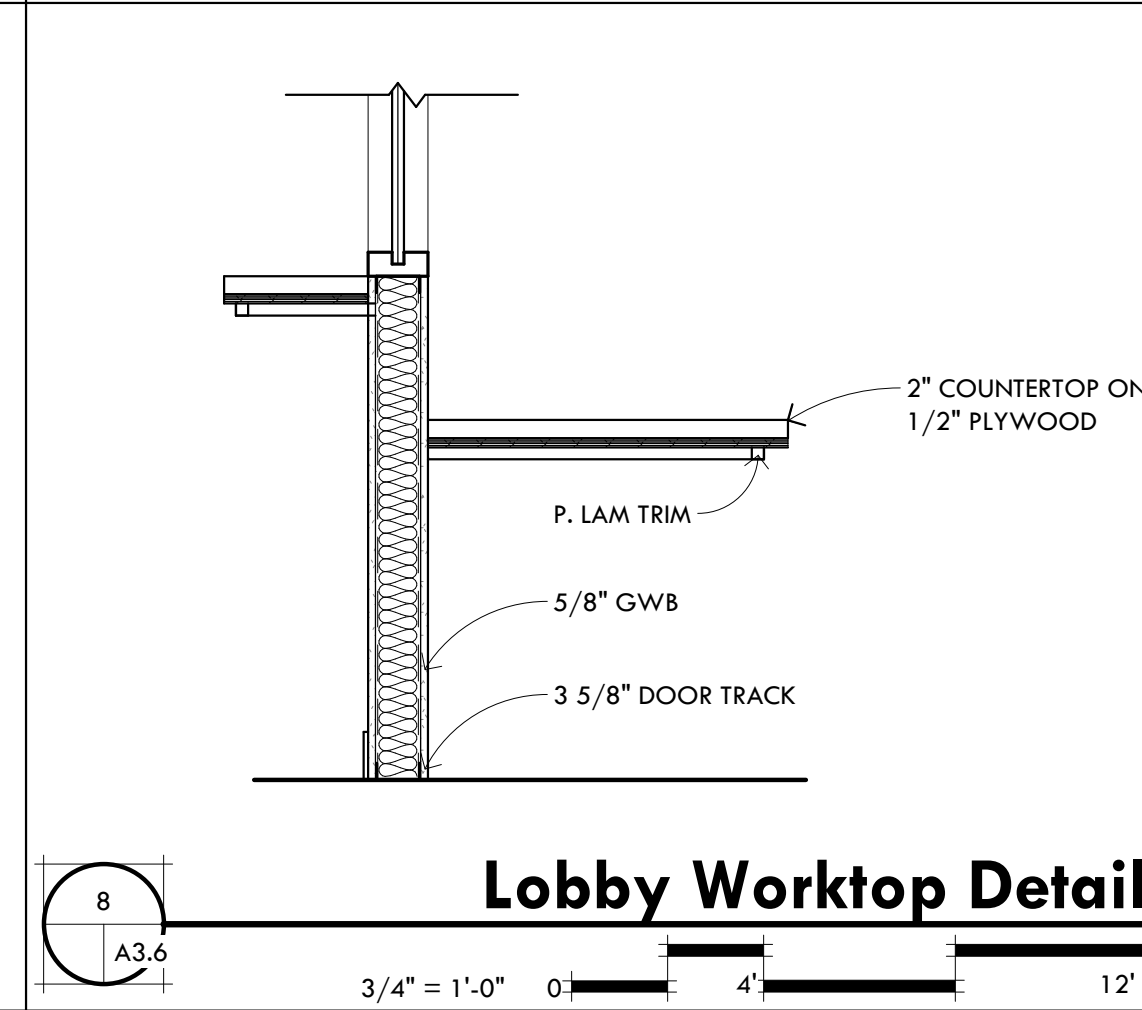
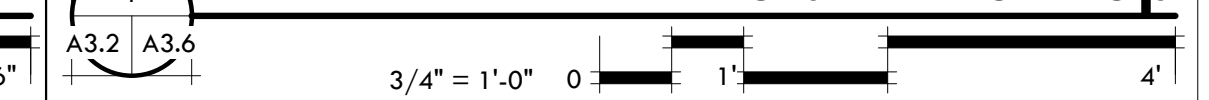
MW Joints Detail 2



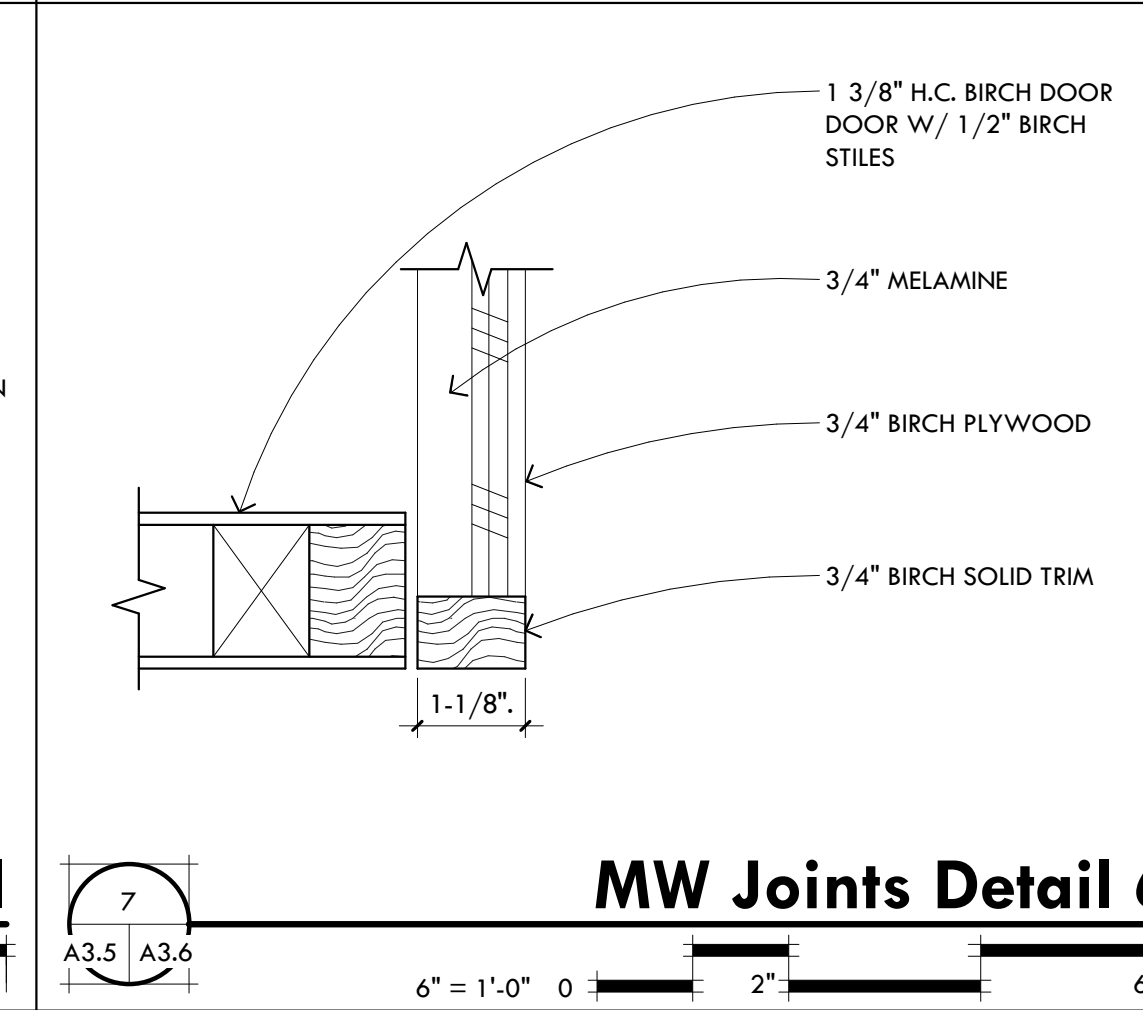
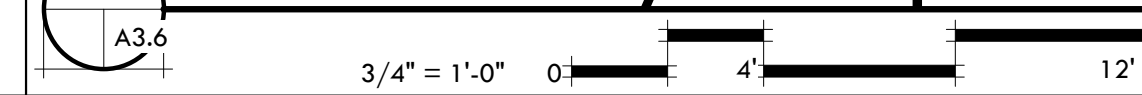
MW Joints Detail 1



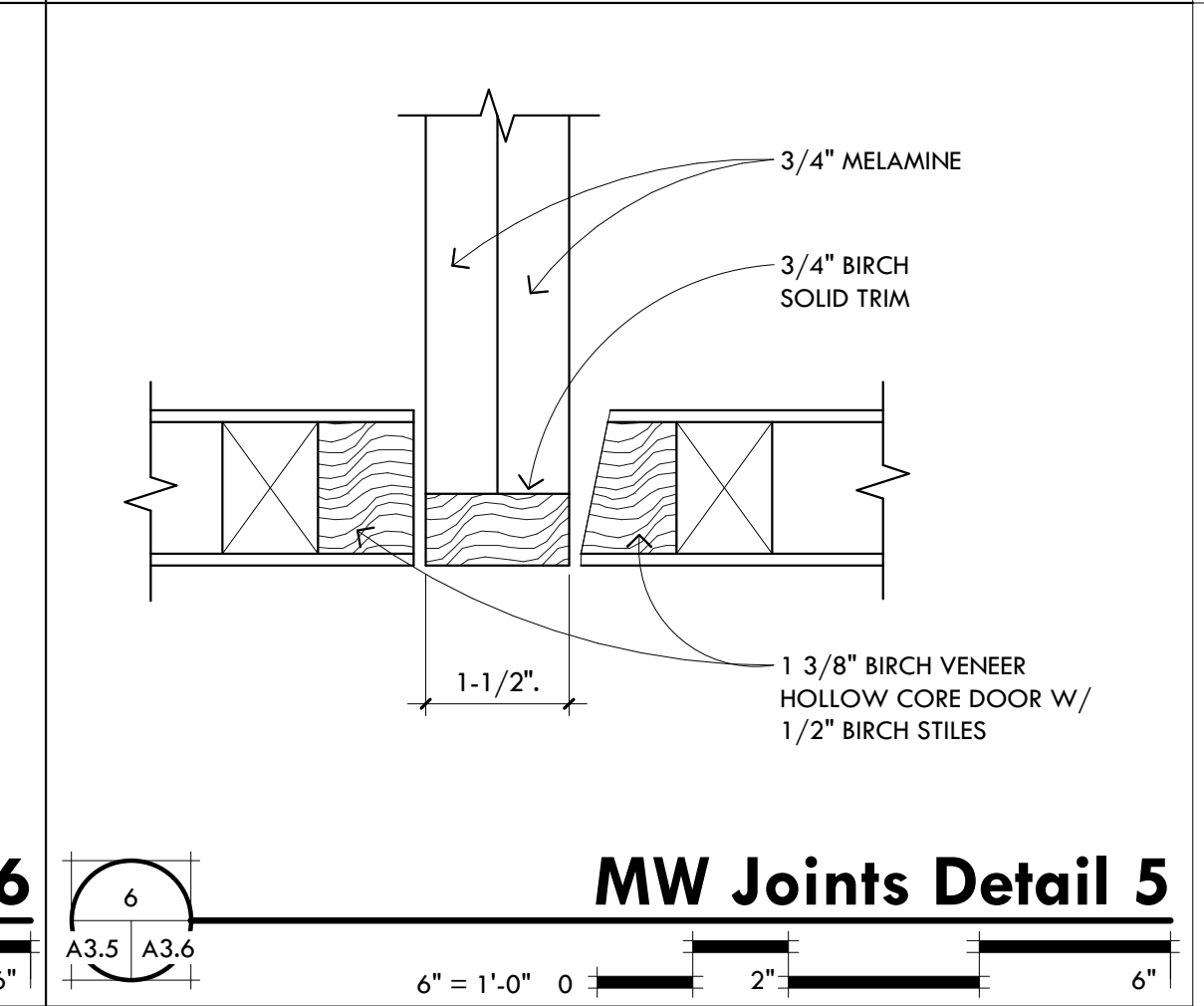
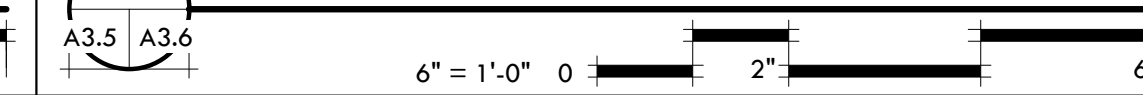
Detail- Worktop



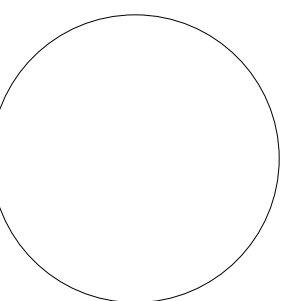
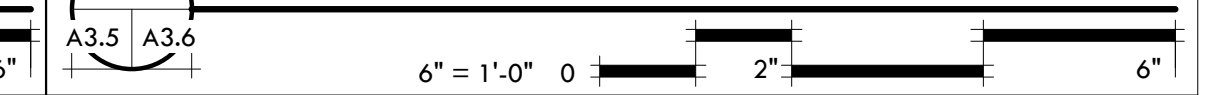
Lobby Worktop Detail



MW Joints Detail 6



MW Joints Detail 5



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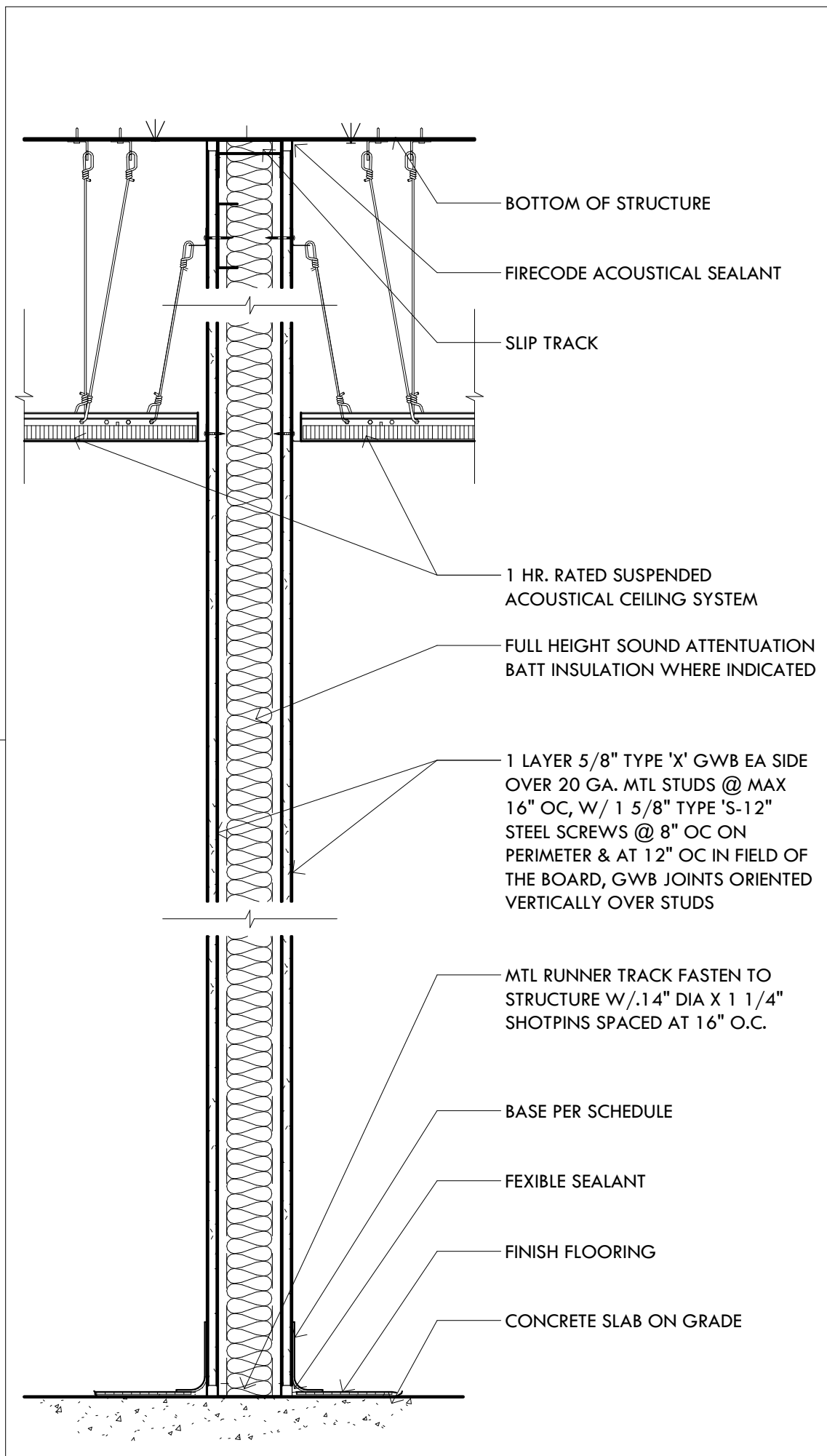
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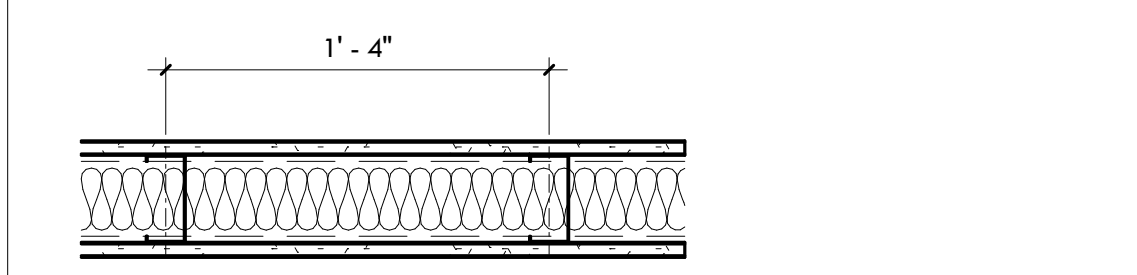
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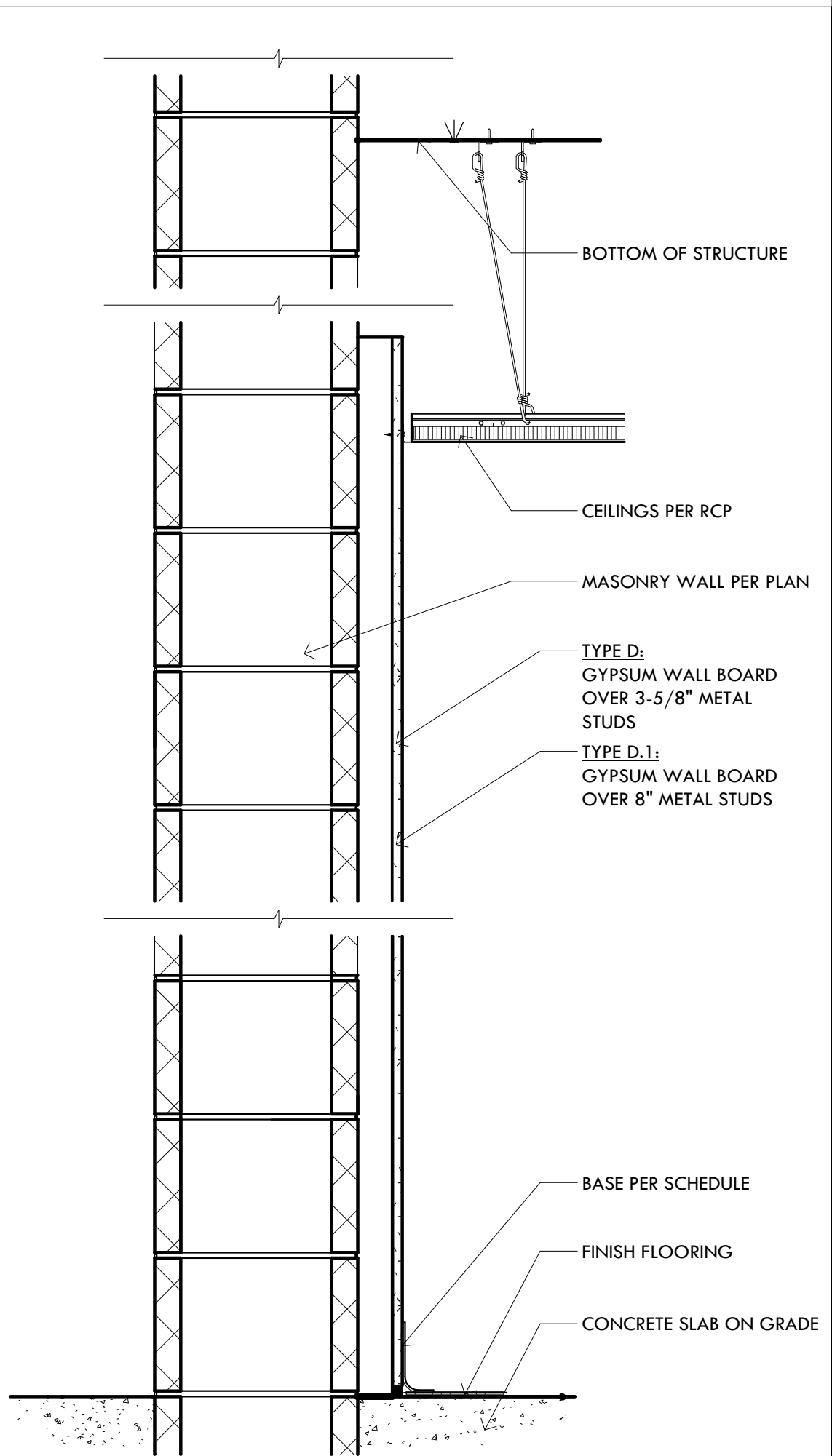
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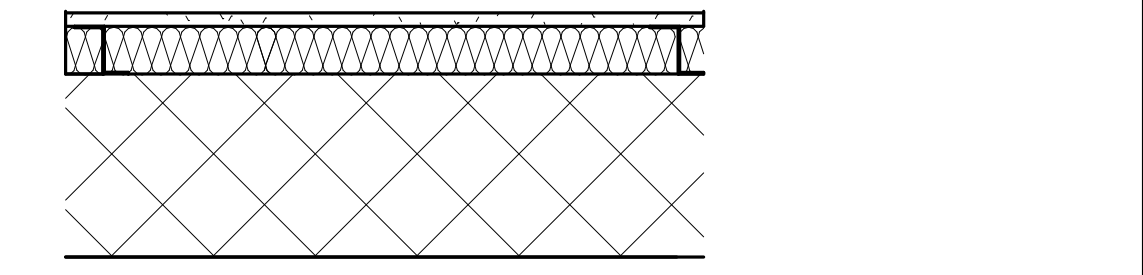
TYPE E:
 3-5/8" 20 GA. METAL STUDS AT 16" O.C.
 3-1/2" SOUND ATTENUATION BLANKET
 1 HR FIRE RATED PARTITION
 UL DESIGN - U465
 UL DESIGN - V438



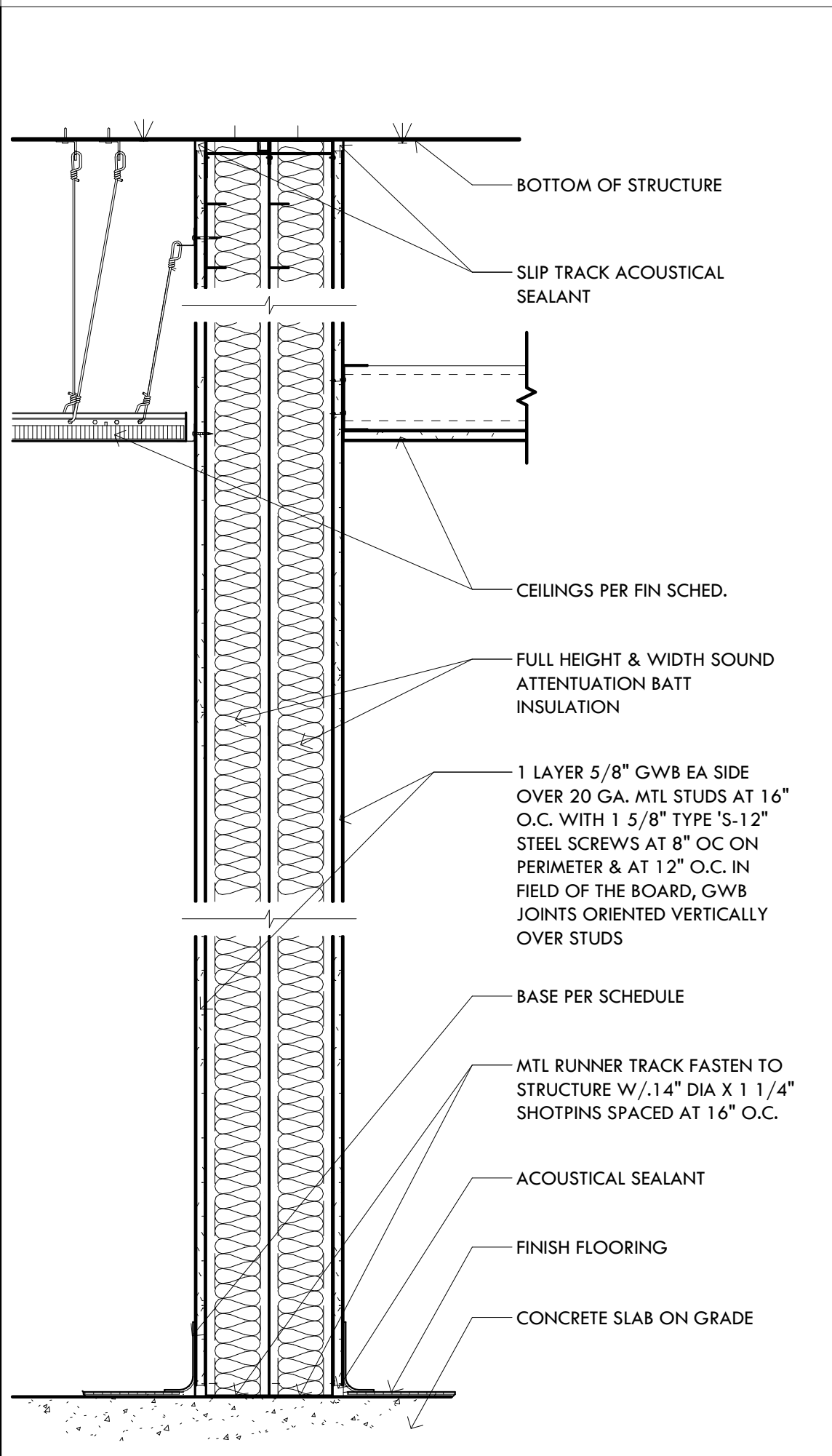
5 Partition Type E- 1 Hr Partition
 SCALE : 1 1/2" = 1'-0" 0 4' 12'



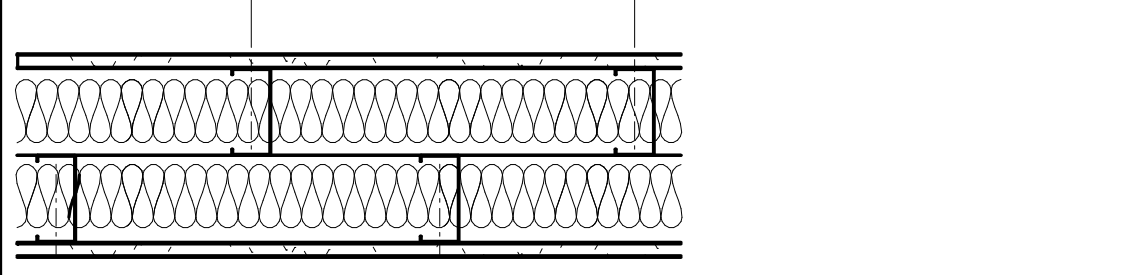
TYPE D:
 (1) 1/2 CMU BLOCK (1) 3-5/8" 20 GA. METAL STUDS AT 16" O.C. WITH (1) LAYER OF 5/8" GWB 6" ABOVE FINISH CEILING
TYPE D.1:
 SIMILAR TO 'D' - 8" 20 GA. METAL STUDS
 NOTE: IN WET AREAS PROVIDE MOISTURE RESISTANT GYPSUM BOARD OR CEMENT BOARD AS A BACKER FOR CERAMIC TILE LOCATIONS



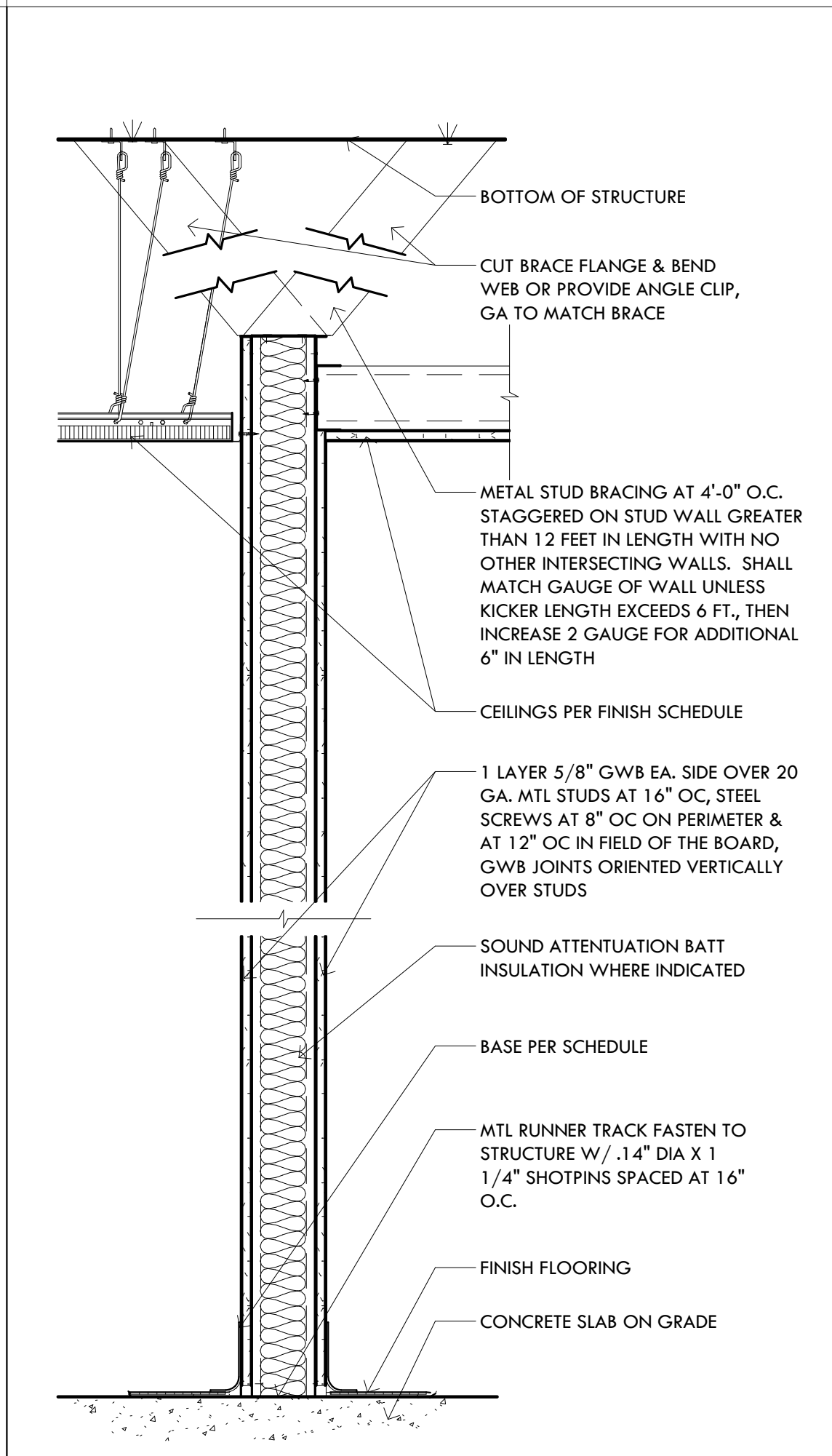
4 Partition Type D
 SCALE : 1 1/2" = 1'-0" 0 4' 12'



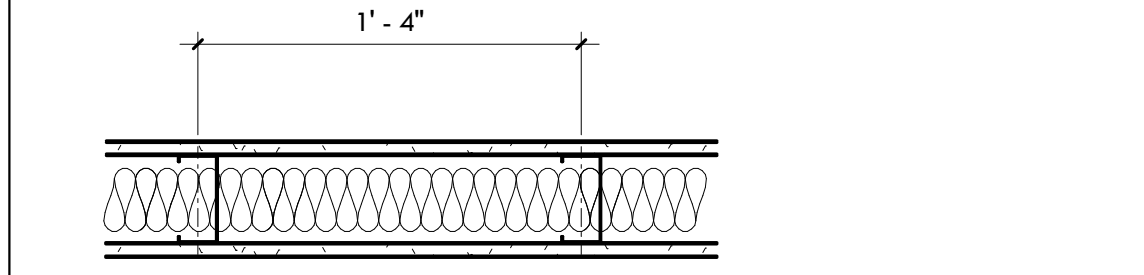
TYPE C:
 (2) 3-5/8" 20 GA. METAL STUDS STAGGERED 16" O.C. WITH (1) LAYER OF 5/8" GWB AT EACH SIDE, AND (2) LAYERS OF 3-1/2" SOUND INSULATION TO THE BOTTOM OF STRUCTURE
 1 HR PARTITION
 UL DESIGN: U465
 UL DESIGN: V438



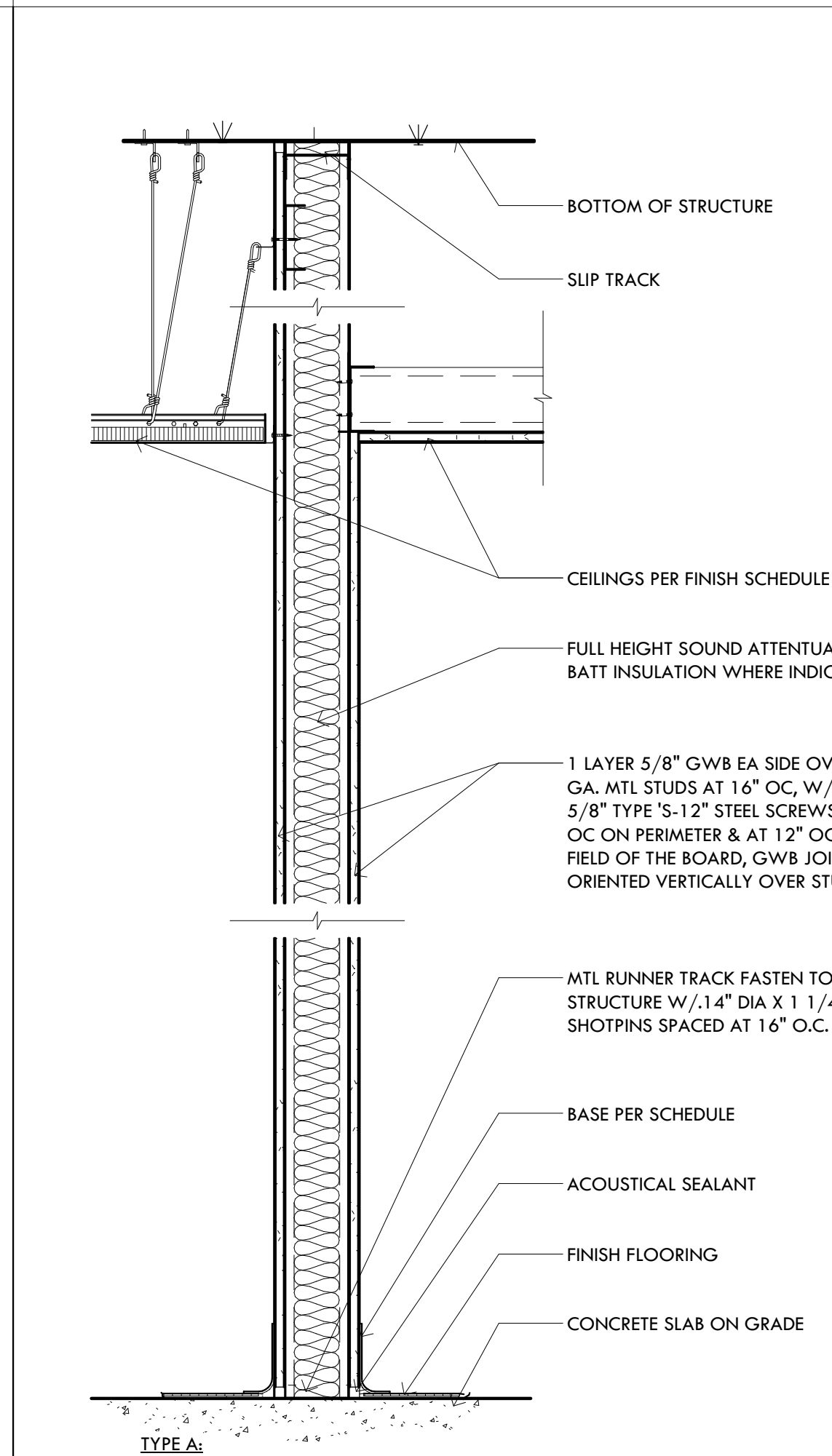
3 Partition Type C
 SCALE : 1 1/2" = 1'-0" 0 4' 12'



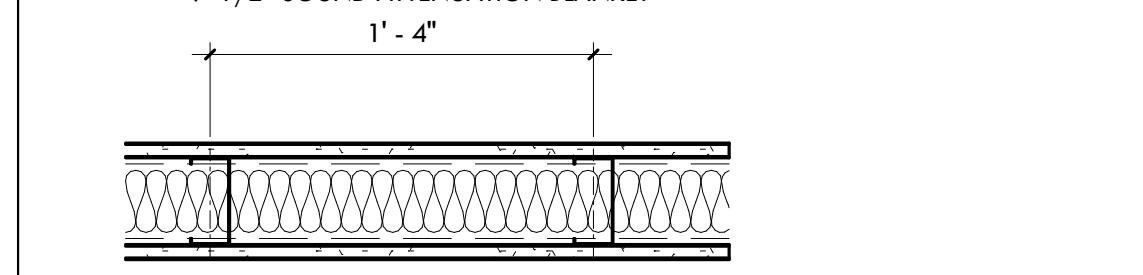
TYPE B:
 3-5/8" 20 GA. METAL STUDS
 3-1/2" SOUND ATTENUATION BLANKET
TYPE B.1:
 SIMILAR TO 'B' - 6" 20 GA. METAL STUDS
 5-1/2" SOUND ATTENUATION BLANKET
 NOTE: IN WET AREAS PROVIDE MOISTURE RESISTANT GYPSUM BOARD OR CEMENT BOARD AS A BACKER FOR CERAMIC TILE LOCATIONS



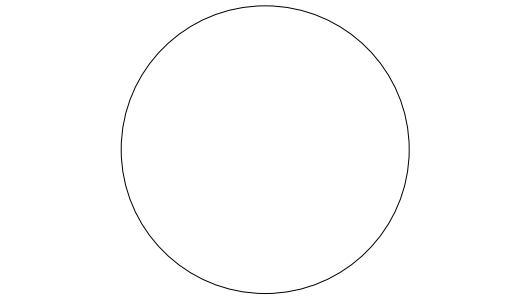
2 Partition Type B
 SCALE : 1 1/2" = 1'-0" 0 4' 12'



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



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

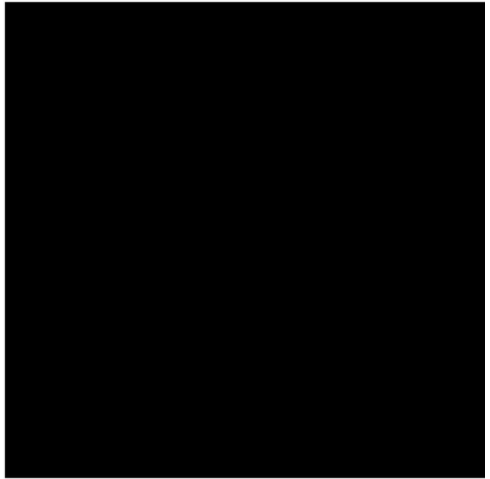


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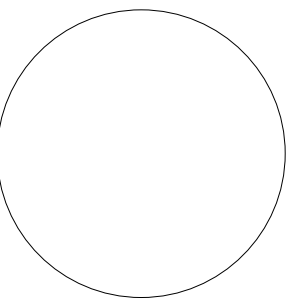


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Reflected Ceiling Plan

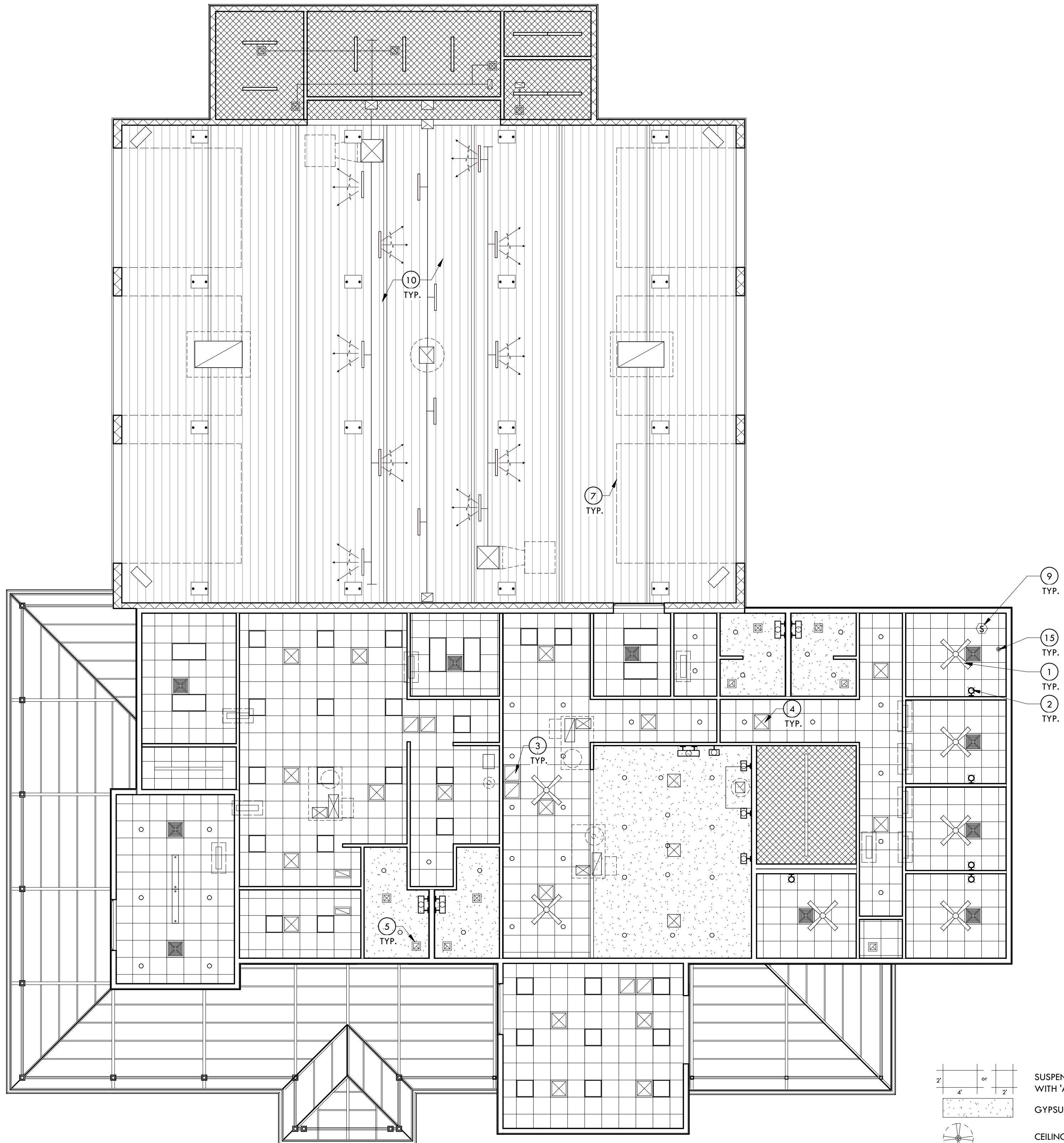
A4.1

General Notes

1. THE GENERAL CONTRACTOR SHALL SUBMIT TO THE OWNER AND ARCHITECT FOR APPROVAL REFLECTED CEILING PLANS WHICH DEMONSTRATED COORDINATION OF LIGHTING, MECHANICAL GRILLS, CEILING PENETRATIONS, FIRE SPRINKLER HEADS, BULKHEADS, ETC. THE PLANS SHALL BE 1/8" = 1'-0" SCALE.
2. PERIMETER TRACK FOR ALL ACOUSTICAL CEILING GRIDS SHALL BE INSTALLED IN ACCORDANCE WITH IBC AND CISCA GUIDELINES
3. 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. SEE BUILDING AND WALL SECTIONS FOR CEILING HEIGHT TRANSITIONS AND DETAILS.
10. CEILING LAYOUT DIMENSIONS ARE TO FINISH FACE OF GYP. BD. WALL'S ROOM SURFACE U.N.O.
11. LIGHTING FIXTURES SHALL BE EQUALLY SPACED IN GRIDS AND CONTINUOUS ROWS WHERE POSSIBLE. THIS SHALL NOT REDUCE THE NUMBER OF LIGHT FIXTURES SHOWN OR REQUIRED ELSEWHERE IN THESE DRAWINGS.
12. SUPPLY AND RETURN AIR GRILLS SHALL BE LOCATED AT REMOTE CORNERS WHERE POSSIBLE. THIS SHALL NOT CHANGE ORIGINAL AIR SUPPLY DESIGN.
13. ALL ACCESS PANELS MAY NOT BE SHOWN ON REFLECTED CEILING PLANS. THE GENERAL CONTRACTOR SHALL COORDINATE ALL REQUIRED ACCESS PANELS WHETHER SHOWN OR NOT.
14. ALL HOSE REELS TO BE MOUNTED AT 12'-0" A.F.F.
15. SMOKE DETECTORS TO BE LOCATED 36" AWAY FROM CEILING FAN BLADES AND AIR SUPPLY REGISTERS

Keynotes

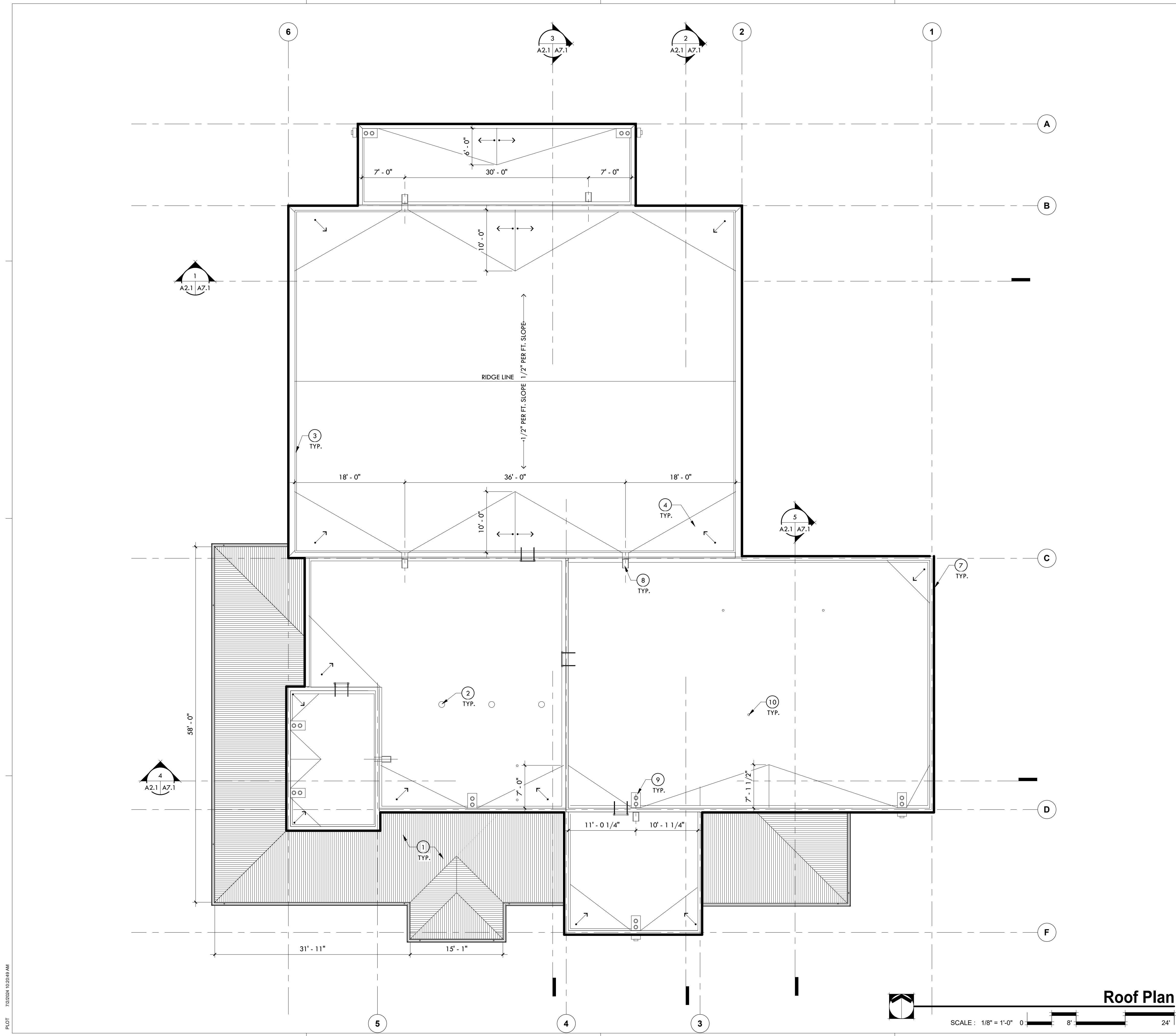
- ① CEILING FAN
- ② LIGHT FIXTURE
- ③ RETURN GRILLE
- ④ SUPPLY GRILLE
- ⑤ EXHAUST GRILLE
- ⑥ DISPATCH SPEAKER
- ⑦ OVERHEAD DOOR SYSTEM
- ⑧ HEAT DETECTOR
- ⑨ SMOKE DETECTOR- LOCATE 36" MIN. FROM FAN BLADES & SUPPLY REGISTERS
- ⑩ EXPOSED STRUCTURE
- ⑪ ROOF ACCESS LADDER
- ⑫ EXPOSED MECH, DUCTWORK, SEE MECH.
- ⑬ POWER HOSE AND AIR REELS MOUNTED ON A 24"x24"x1/4" STL. PLATE SUSPENDED FROM STRUCTURE WITH UNISTRUTS COORDINATE HEIGHT WITH OWNER
- ⑭ CAD ALERT DISPLAY- MOUNT J-BOX HORIZONTALLY, BOTTOM OF BOX
- ⑮ SPRINKLER HEAD



<p>SUSPENDED CEILING GRID WITH "AT" ACOUSTICAL TILE</p> <p>GYP. BOARD CEILING</p> <p>CEILING FAN</p> <p>FS GW N/A PT PSF SD</p> <p>MECHANICAL GRILLE OR REGISTER</p> <p>RETURN</p> <p>SUPPLY</p> <p>EXHAUST</p>	<p>FLUORESCENT LIGHT FIXTURE</p> <p>FLUORESCENT LIGHT FIXTURE (continuous duty)</p> <p>TRACK LIGHTING</p> <p>SMOKE DETECTOR</p> <p>CEILING OR PENDANT LIGHT</p> <p>CEILING OR PENDANT LIGHT (continuous duty)</p> <p>WALL MOUNTED LIGHT</p> <p>WALL MOUNTED LIGHT (continuous duty)</p> <p>RECESSED CAN LIGHT</p> <p>SPEAKER</p> <p>WALL MOUNTED EGRESS SIGNAGE</p> <p>CEILING MOUNTED EGRESS SIGNAGE</p> <p>EMER. EGRESS LIGHTING (wall pack)</p>
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Reflected Ceiling Plan

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



General Notes

1. MANUFACTURER'S REP TO INSPECT ALL ROOFING APPLICATIONS TO ENSURE ADHERENCE TO MANUFACTURE GUIDELINES AND CERTIFY TO THE GENERAL CONTRACTOR THAT ROOF IS INSTALLED PER MANUFACTURE GUIDELINES.
2. ROOF PENETRATIONS SHOWN ARE SCHEMATIC IN NATURE AND FOR THE CONVENIENCE OF THE CONTRACTOR. GENERAL CONTRACTOR RESPONSIBLE FOR MAKING FINAL COORDINATION OF SIZE, TYPE AND LOCATION OF CURBS, DEKTTES, AND ANY OTHER ROOF PENETRATIONS THAT MAY BE REQUIRED.
3. SEE MEP DRAWINGS FOR ROOF MOUNTED EQUIPMENT AND PENETRATIONS, MAINTAIN 10" MINIMUM FROM VTR TO AIR INTAKES.
4. ALL ROOFING DETAILS SHALL COMFORM WITH "SMACNA" AND "NRCA" REQUIREMENTS.
5. REFER MEP DOCUMENTS FOR ROOFTOP EQUIPMENT NOT SHOWN. MECHANICAL, ELECTRICAL AND PLUMBING ROOF EQUIPMENT DEPICTED ON THIS SHEET IS FOR GENERAL INFORMATION ONLY. REFER TO THE MEP DOCUMENTS FOR ADDITIONAL REQUIREMENTS AND COORDINATION.
6. EXPOSED METAL FLASHING/TRIM PIECES ARE TO BE PREFIN GALV STL, U.N.O. PAINT EXPOSED METAL FLASHING/TRIM PIECES THAT ARE NOT PREFIN, AS WELL AS ALL EXPOSED MISC STL PIECES TO MATCH RUSTED STEEL BY WESTERN STATES METAL ROOFING.
7. TAPERED INSULATION SHALL BE 1/2" FT MIN SLOPE TO GUTTER.
8. PROVIDE TAPERED INSULATION CRICKETS (1/4" FT MIN SLOPE) AT HIGH SIDE OF ALL MECH UNITS, ROOF HATCH, AND MISC ROOF PENETRATIONS, TO SHED WATER AROUND, AND TO INSURE POSITIVE ROOF DRAINAGE.
9. FOR TYPICAL ROOF PENETRATION DETAILS. PROVIDE MTL ROOF MFRS STD ROOF CURBS AND PENETRATION DETAILS. FOR LOCATIONS, WEIGHTS, AND ANY OTHER ADDITIONAL INFO REFER TO MEP DOCS. COORDINATE FINAL SIZE.

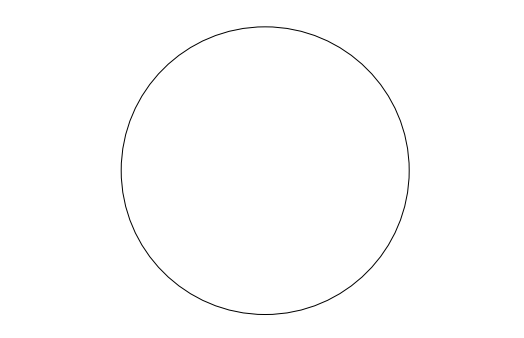
Keynotes

- ① MTL ROOF
- ② 12" DIA SOLATUBE SKYLIGHT
- ③ 4" CANT STRIP
- ④ CRICKET TO DRAIN (TYP.)
- ⑤ STEEL GUTTER
- ⑥ METAL FASCIA, COLOR TO MATCH RUSTED STEEL
- ⑦ EPS FORMED PARAPET CAP. SLOPE EIFS MFG. REQUIREMENTS
- ⑧ SPLASH BLOCK. SIZE PER DETAIL (TYP.)
- ⑨ ROOF DRAIN
- ⑩ PLUMBING VENT (TYP.)

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



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23.21.00

DATE:
JULY 2024

REVISION SCHEDULE:

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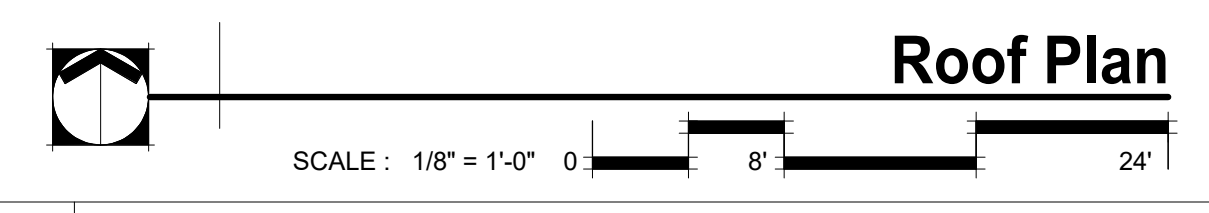
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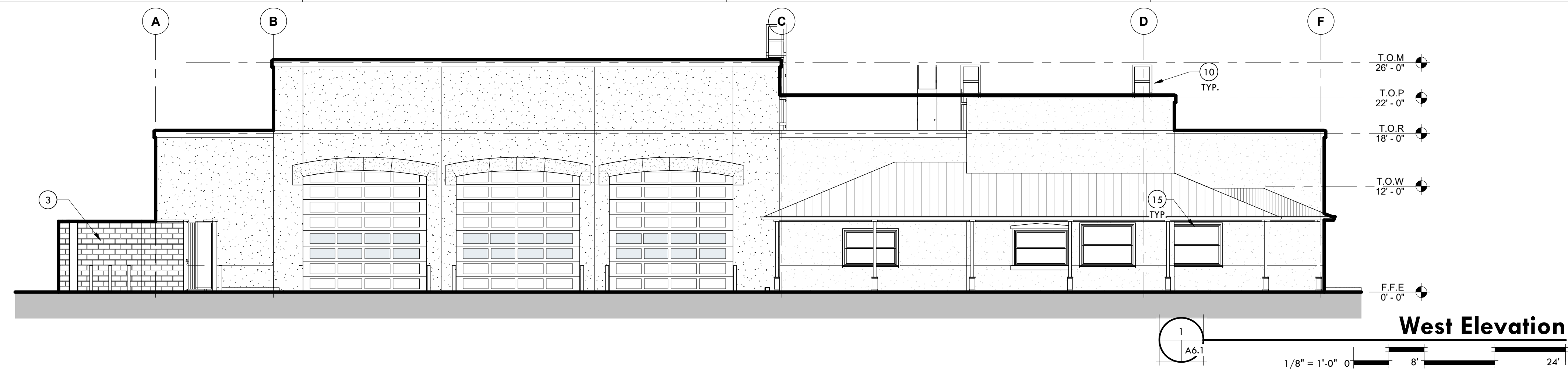
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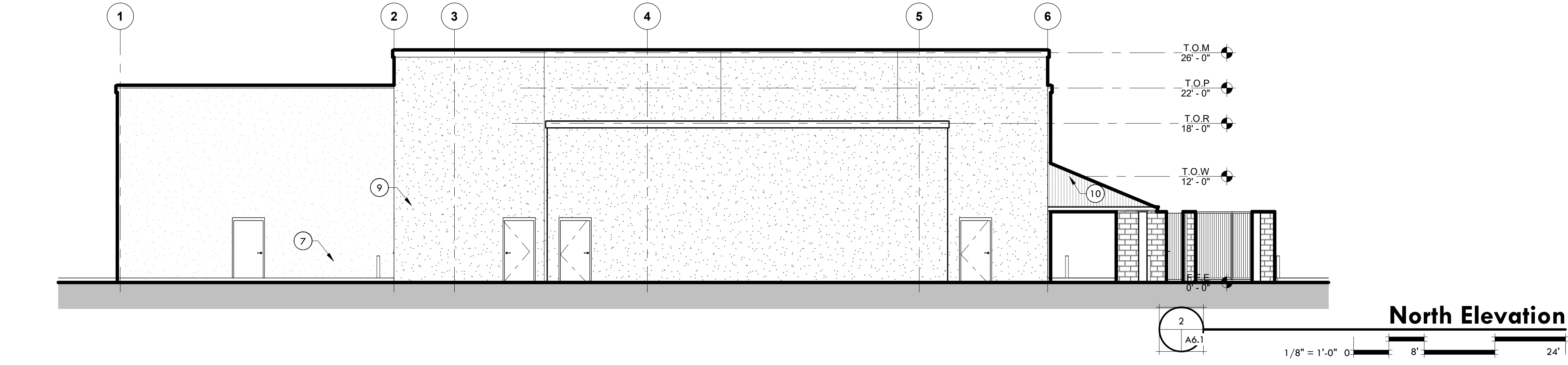
Roof Plan

A5.1

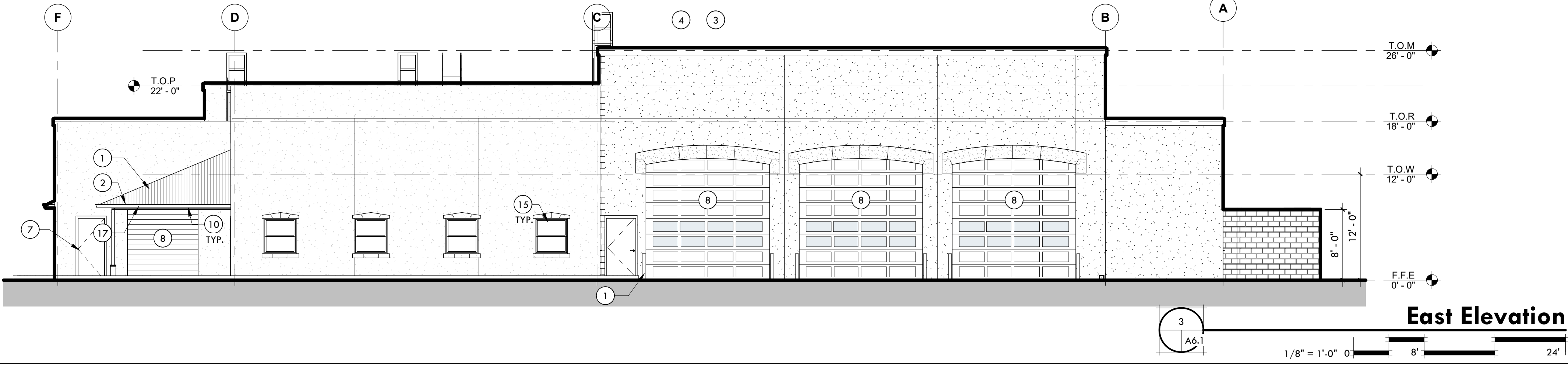




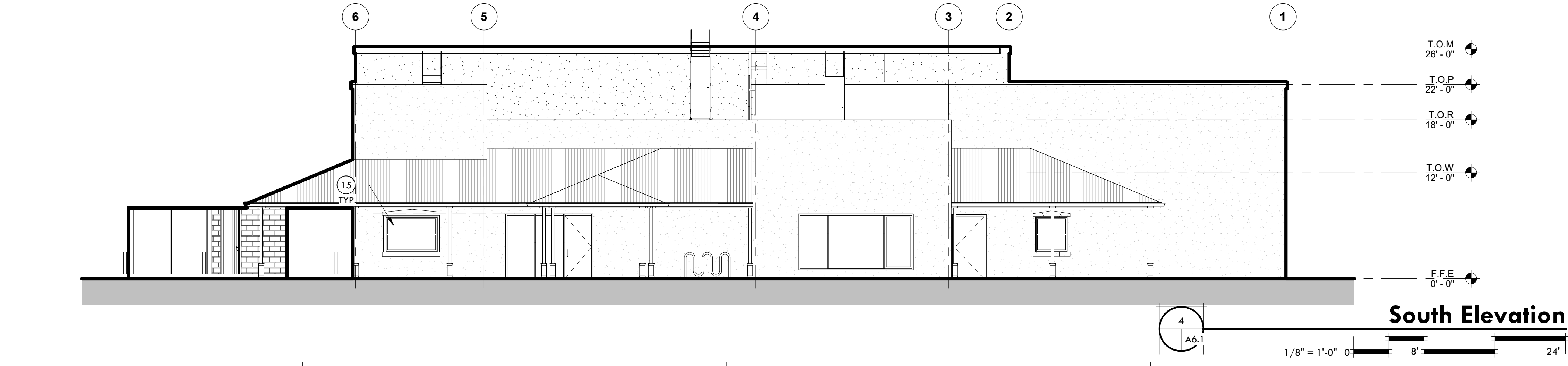
West Elevation



North Elevation



East Elevation



South Elevation

General Notes

- SEE CONSULTANT DRAWINGS FOR ADDITION INFORMATION.
- ALL MISCELLANEOUS EXPOSED METALS ON THE EXTERIOR OF THE BUILDING TO BE PAINTED.
- SEE ELEVATIONS AND STRUCTURAL DRAWINGS FOR LOCATIONS OF EXPANSION AND CONTROL JOINTS. CONTRACTOR SHALL PROVIDE ADDITIONAL INTERIOR CONTROL JOINTS AS REQUIRED TO COMPLY WITH MAXIMUM SPACING REQUIREMENTS IN SPECIFICATIONS AND NATIONAL MASONRY INSTITUTE. PROVIDE CONTROL JOINTS AT ALL MASONRY REENTRANT CORNERS

Finish schedule

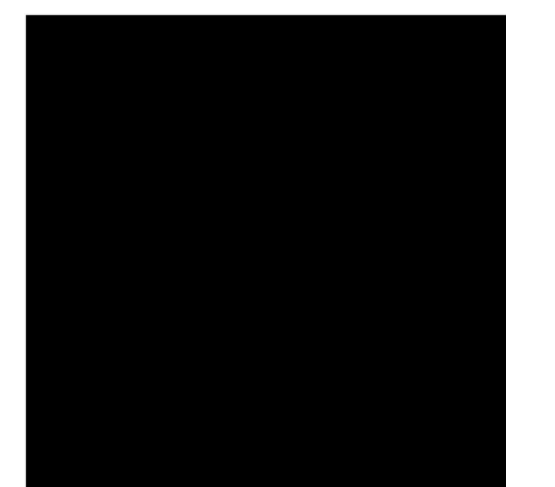
- INTEGRAL COLOR EXTERIOR INSULATION FINISH SYSTEM (EIFS), PAINT ALL METAL
 COLOR TO MATCH:
 PT-1 DUNN EDWARDS, WILD MUSTANG DE3A161
 PT-2 DUNN EDWARDS, DOVER PLAINS DE6116
- INTEGRAL COLOR CONCRETE MASONRY UNITS (CMU)
 SPLIT FACE - SUPERLITE, ANTHEM RED
 GROUND FACE - SUPERLITE, SIERRA
- PAINT ALL EXPOSED 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

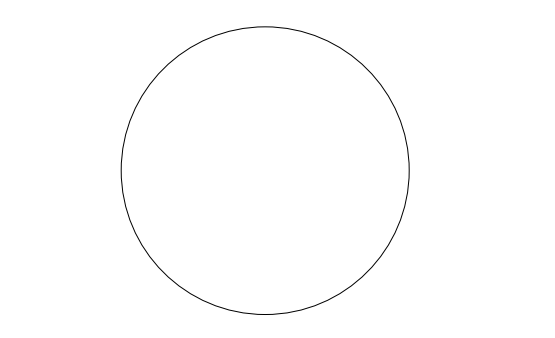
Keynotes

- PIPE BOLLARD (TYP) - REF. 10/AS1.2
- FLAG POLE - REF. 5/AS1.2
- 8-4-16 SLUMP CMU SCREEN WALL - (SEE 'CMU-1' FINISH SCHEDULE FOR COLOR)
- BIKE RACK -REF. 9AS1.2
- 4'-0" CHAINLINK FENCE
- TUBE STEEL GATE WITH CORRUGATED STEEL (A606 FINISH) TO MATCH ROOF. PROVIDE COMPLETE WITH HINGES AND LOCKABLE LATCH
- ADD ALTERNATE #2 - INSTALL PER SPECS GATES, GATE OPERATORS AND CARD READER. CONNECT DETECTION LOOP, GATE OPERATORS, AND CARD READER TO ELECTRICAL AND SECURITY ACCESS PROVISIONS TO MAKE OPERABLE
- ROOF ACCESS LADDER
- LIGHT FIXTURE, SEE FIXTURE SCHED. W/ SHEET FOR MOUNTING HEIGHTS
- RAIN WATER LEADERS (PT-5)
- 5'-0" HIGH CHAINLINK FENCE
- TYP. PARKING SPACE 9'-0" x 20'-0"
- WINDOW SYSTEM
- DEDUCT ALTERNATE #1 - SUBSTITUTE BI-FOLD DOORS WITH SPECIFIED SECTIONAL OVERHEAD DOORS. INCLUDE ADDITIONAL FIRE SPRINKLER HEAD EXTENSION PROVISIONS
- GUTTER SEE DETAIL



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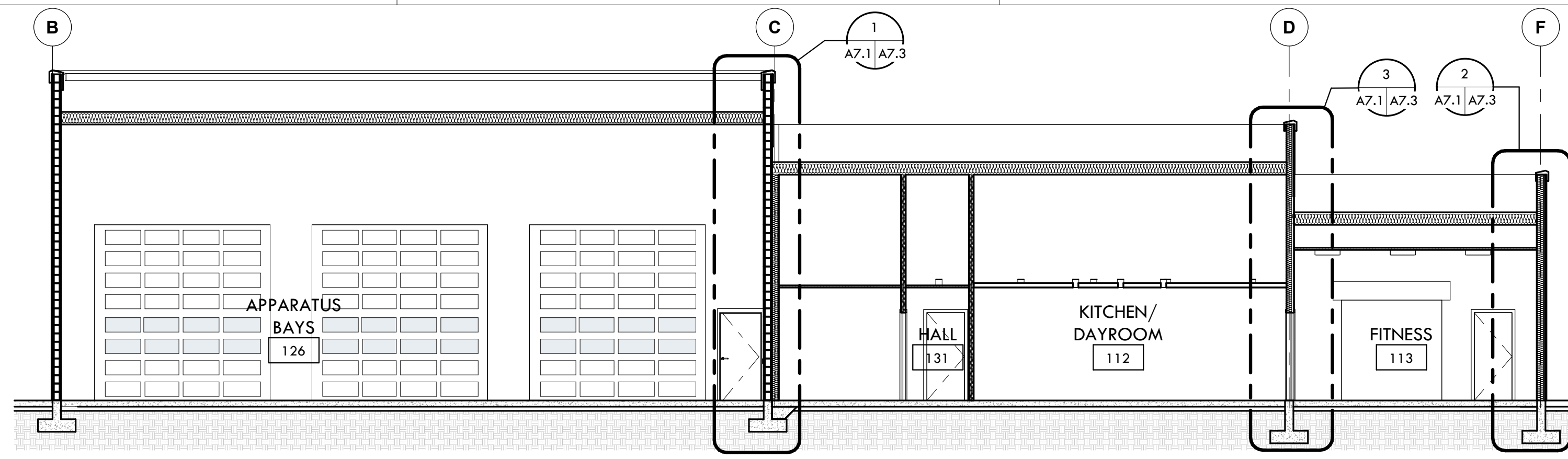
Tubac Fire Station #1
 2227 I-19 Frontage Rd., Tubac, AZ 85646
 Preliminary Plans



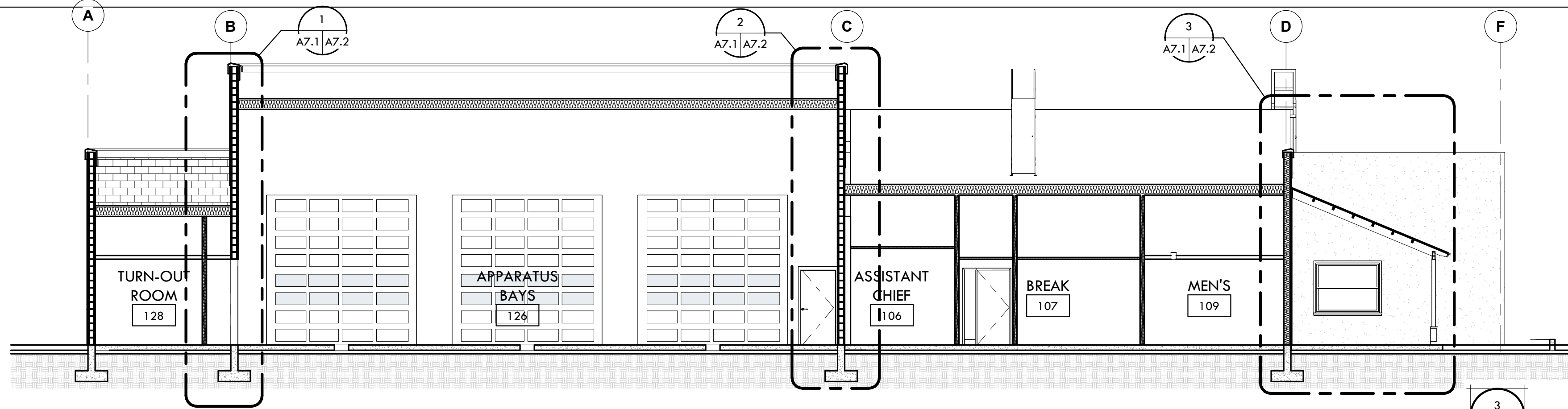
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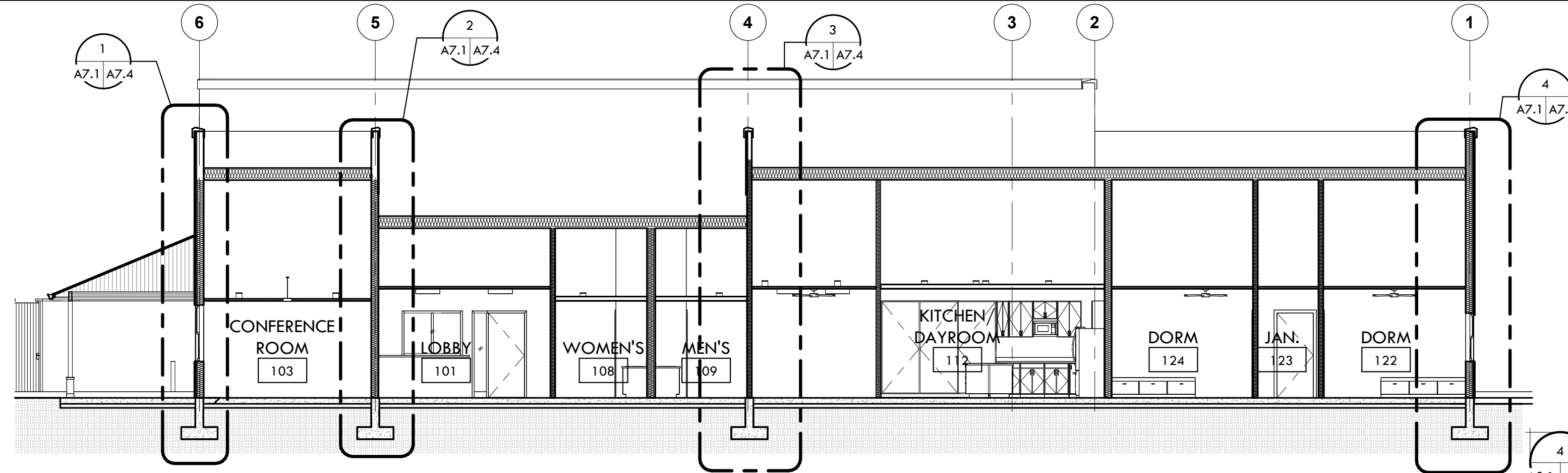
Building Elevations
A6.1



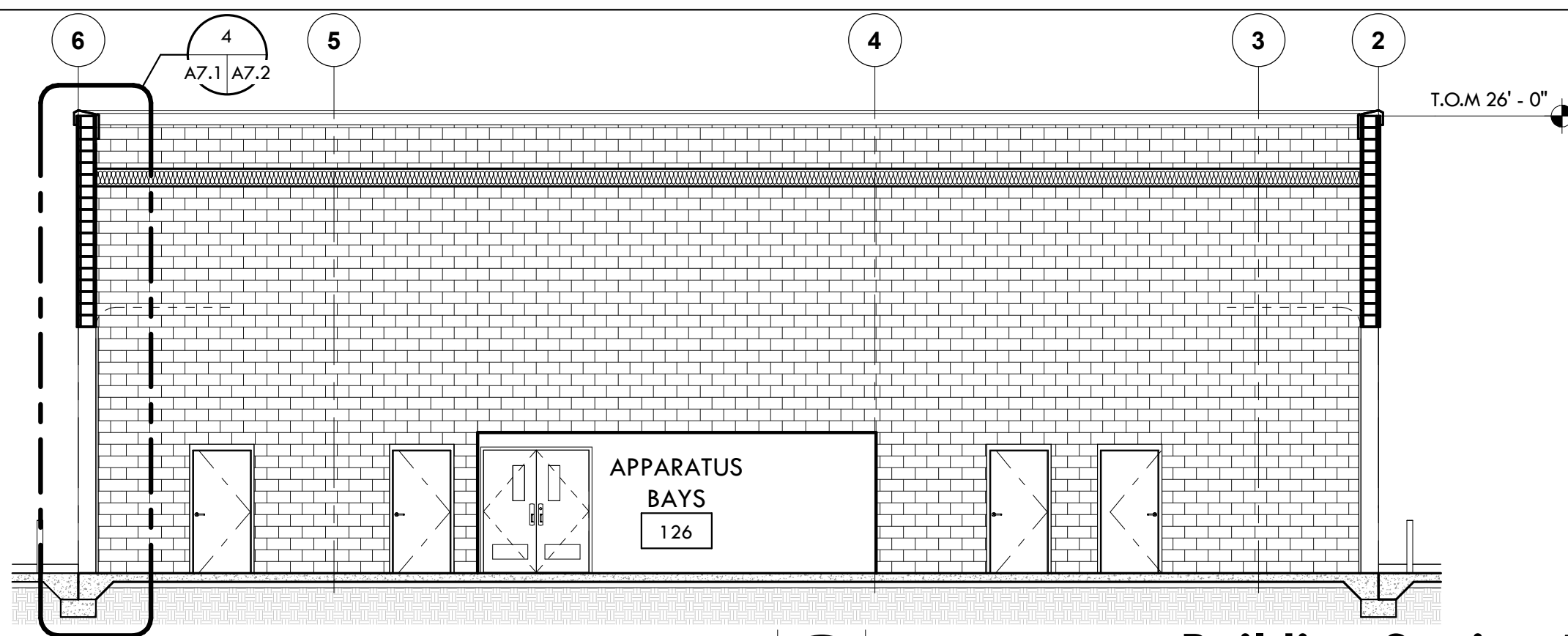
Building Section 1
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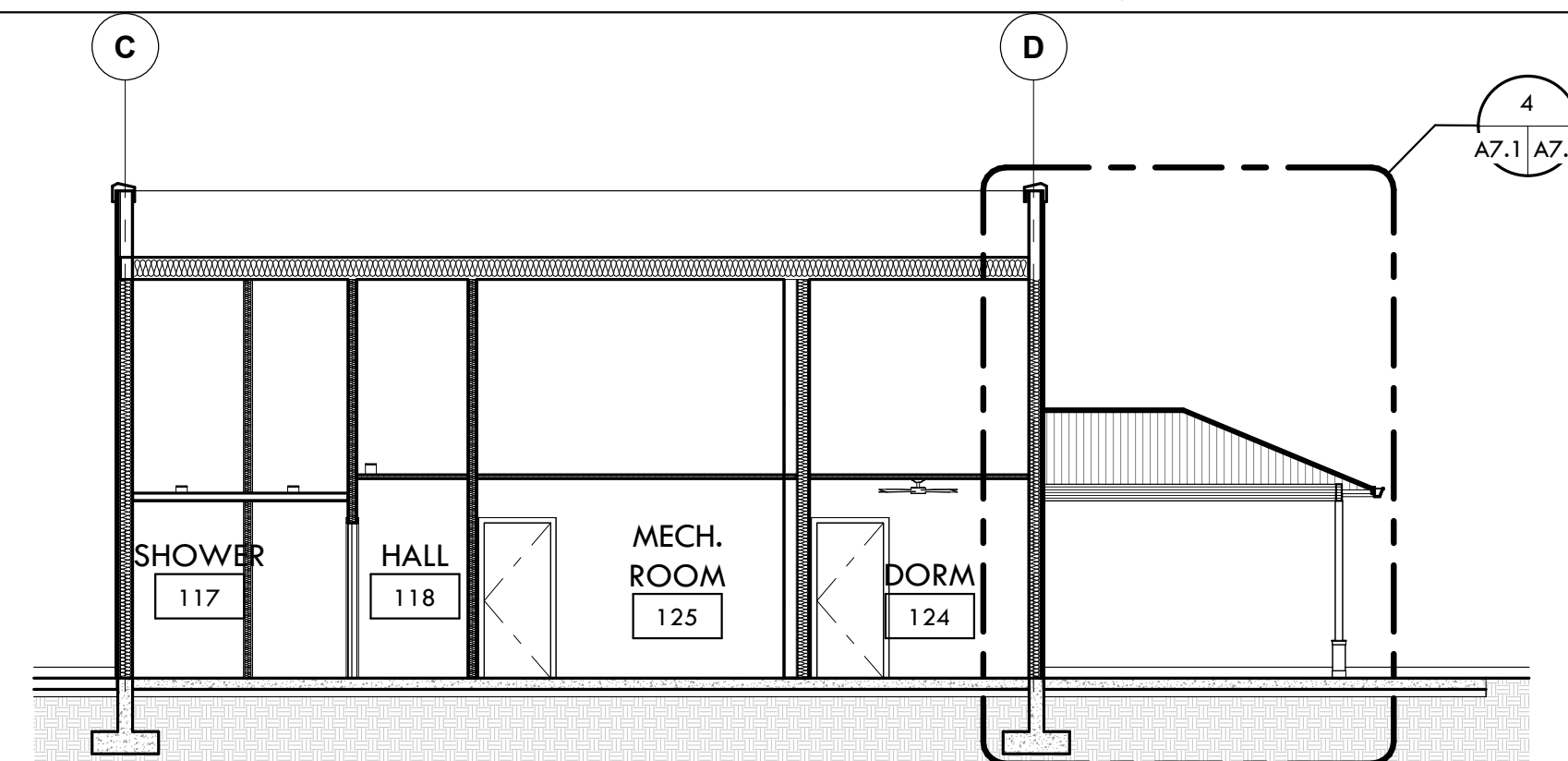
Building Section 2
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Building Section 3
 1/8" = 1'-0" 0' 8' 24'



Building Section 5
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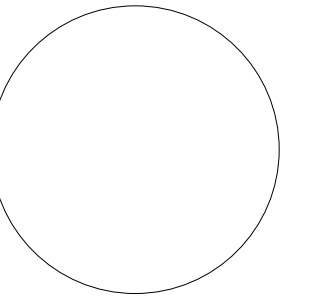
Building Section 4
 1/8" = 1'-0" 0' 8' 24'

Breckenridge
 architects
 planners

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 tucson arizona 85719
 520.882.9944

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

Preliminary Plans



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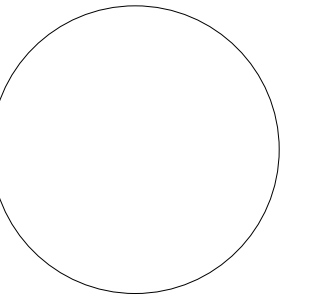
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Building Sections





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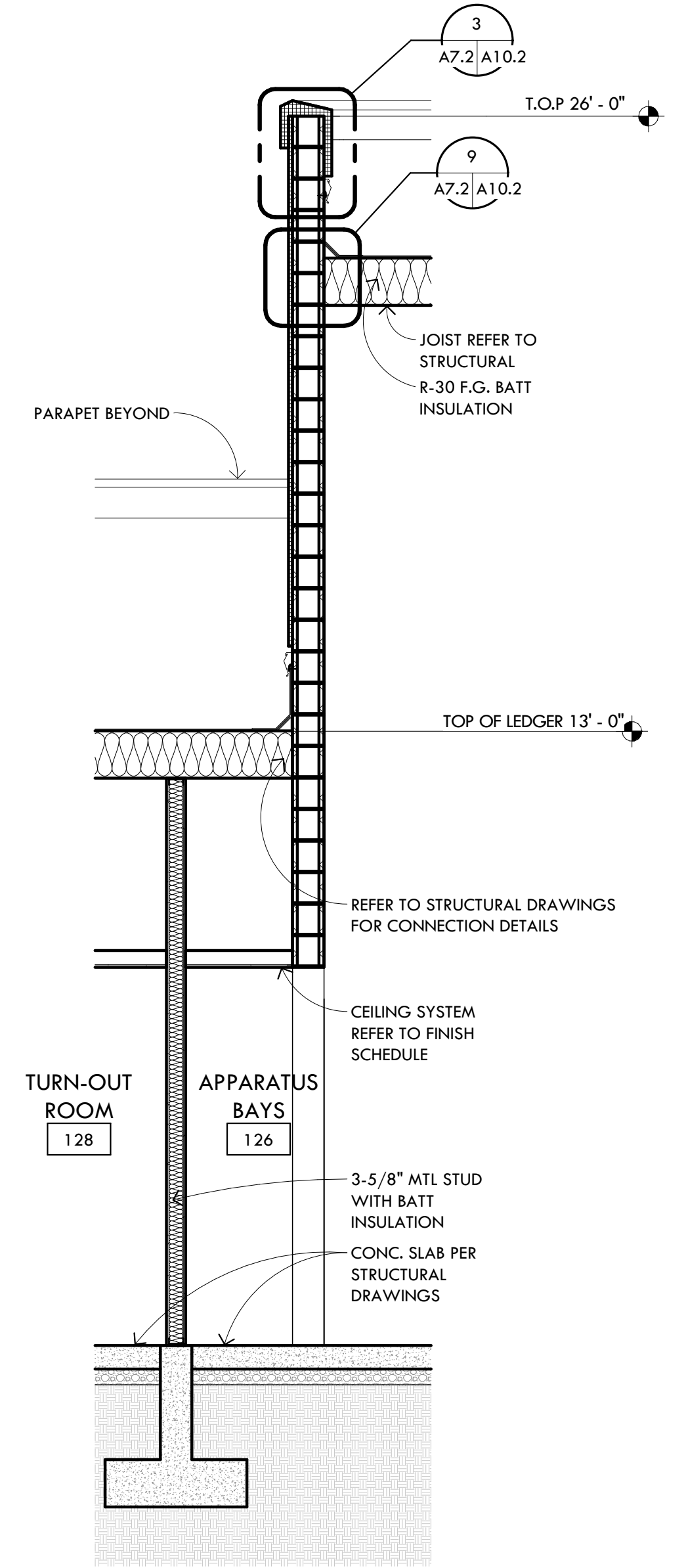
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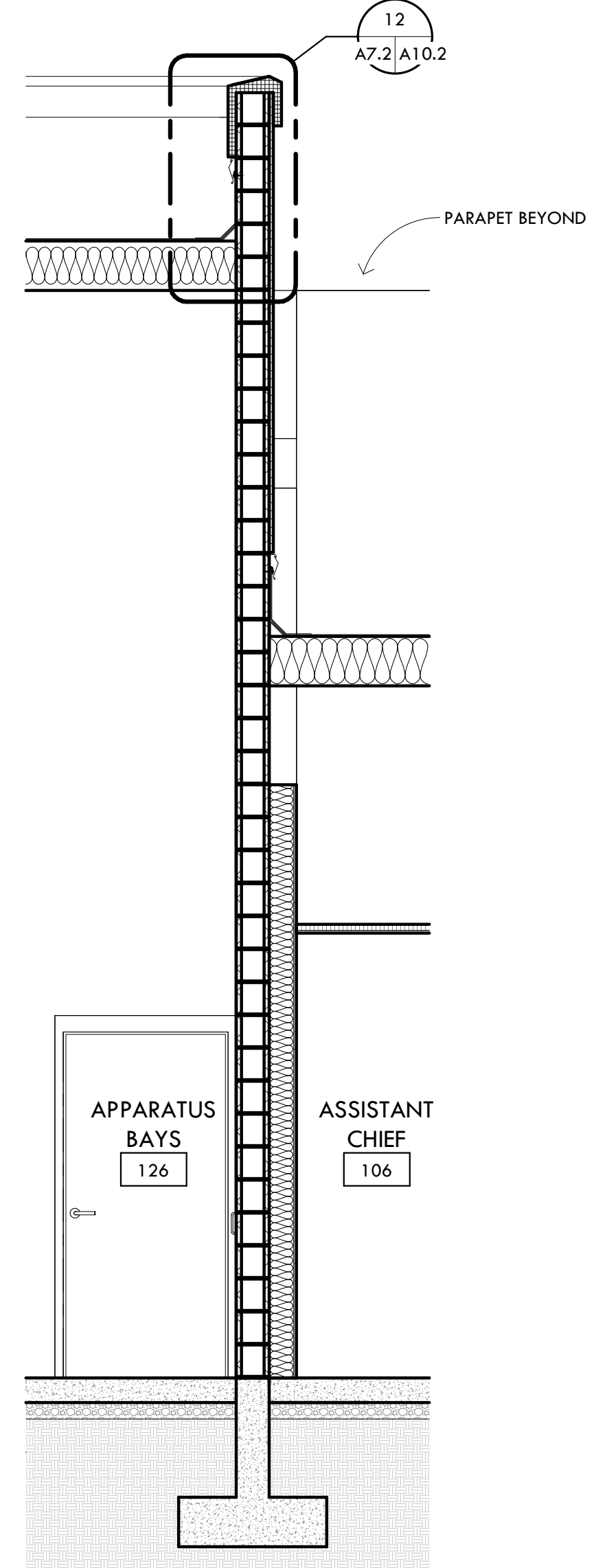
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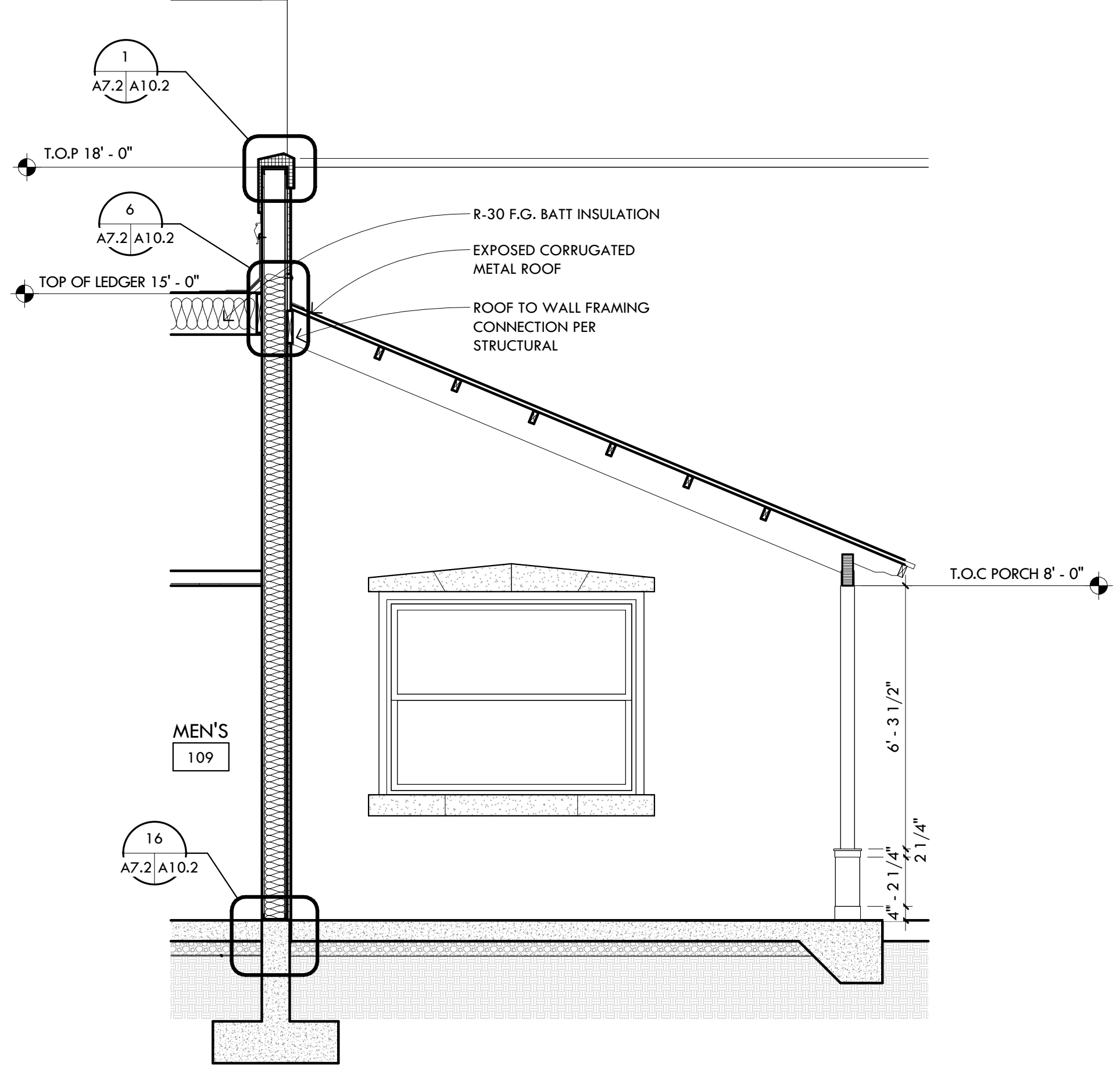
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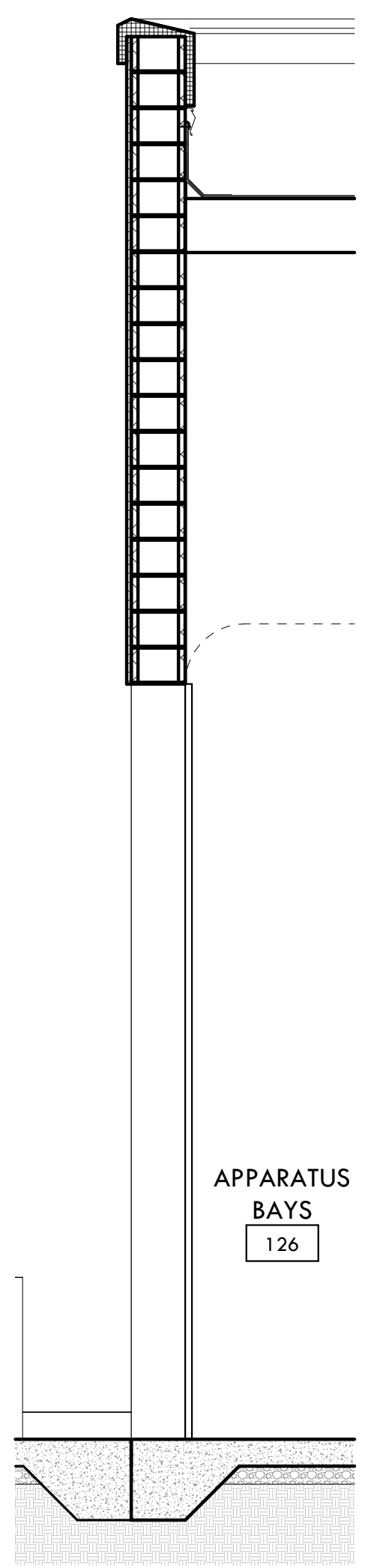
Wall Section 1
3/8" = 1'-0" 0 2 8'



Wall Section 2
3/8" = 1'-0" 0 2 8'



Wall Section 3
3/8" = 1'-0" 0 2 8'



Wall Section 4
3/8" = 1'-0" 0 2 8'

PLOT: 7/26/2024 10:20:51 AM

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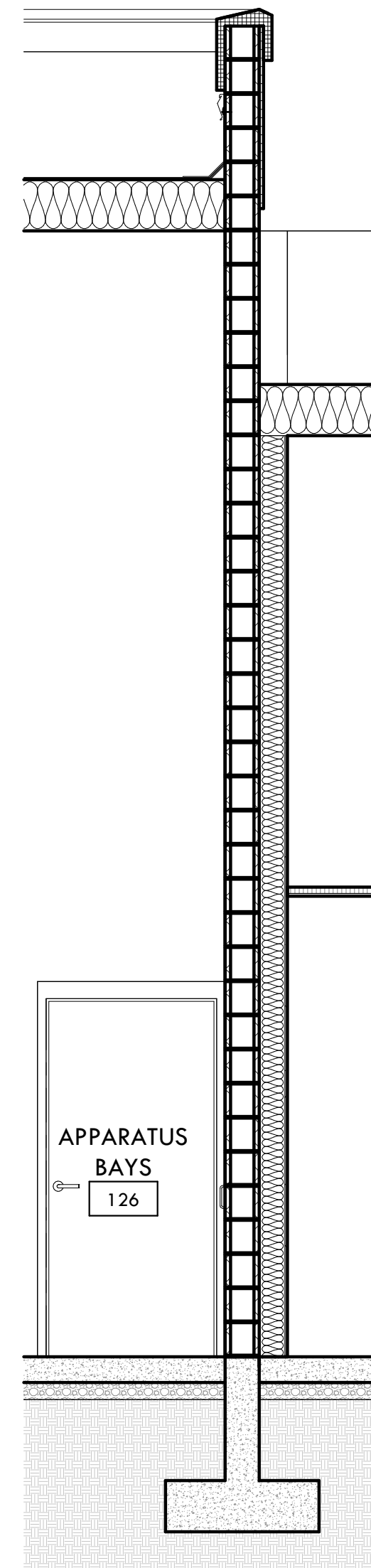
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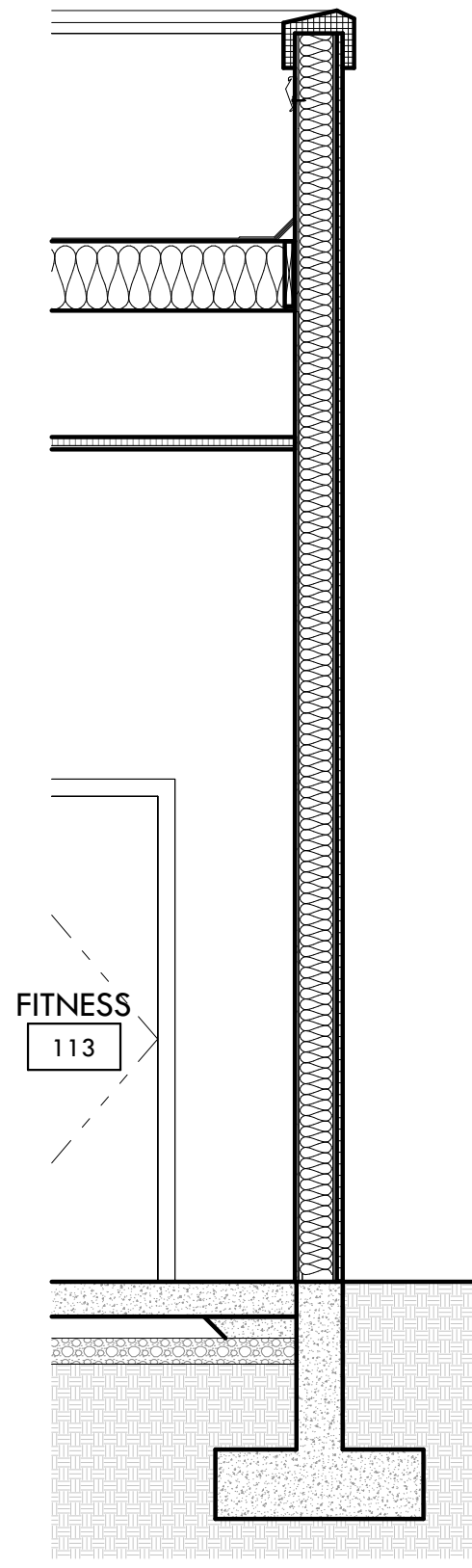
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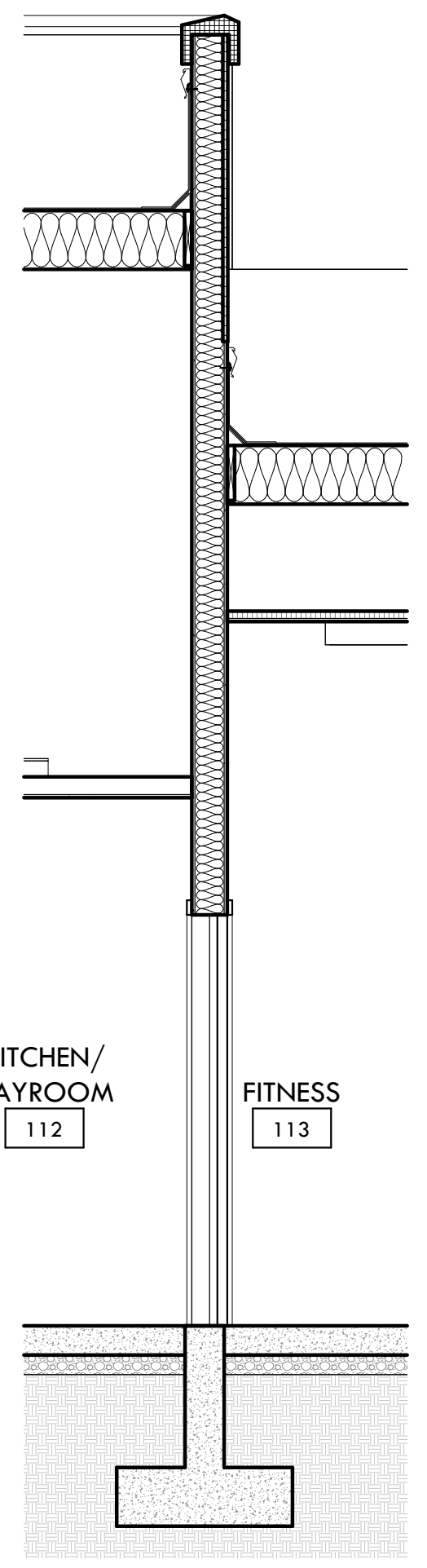
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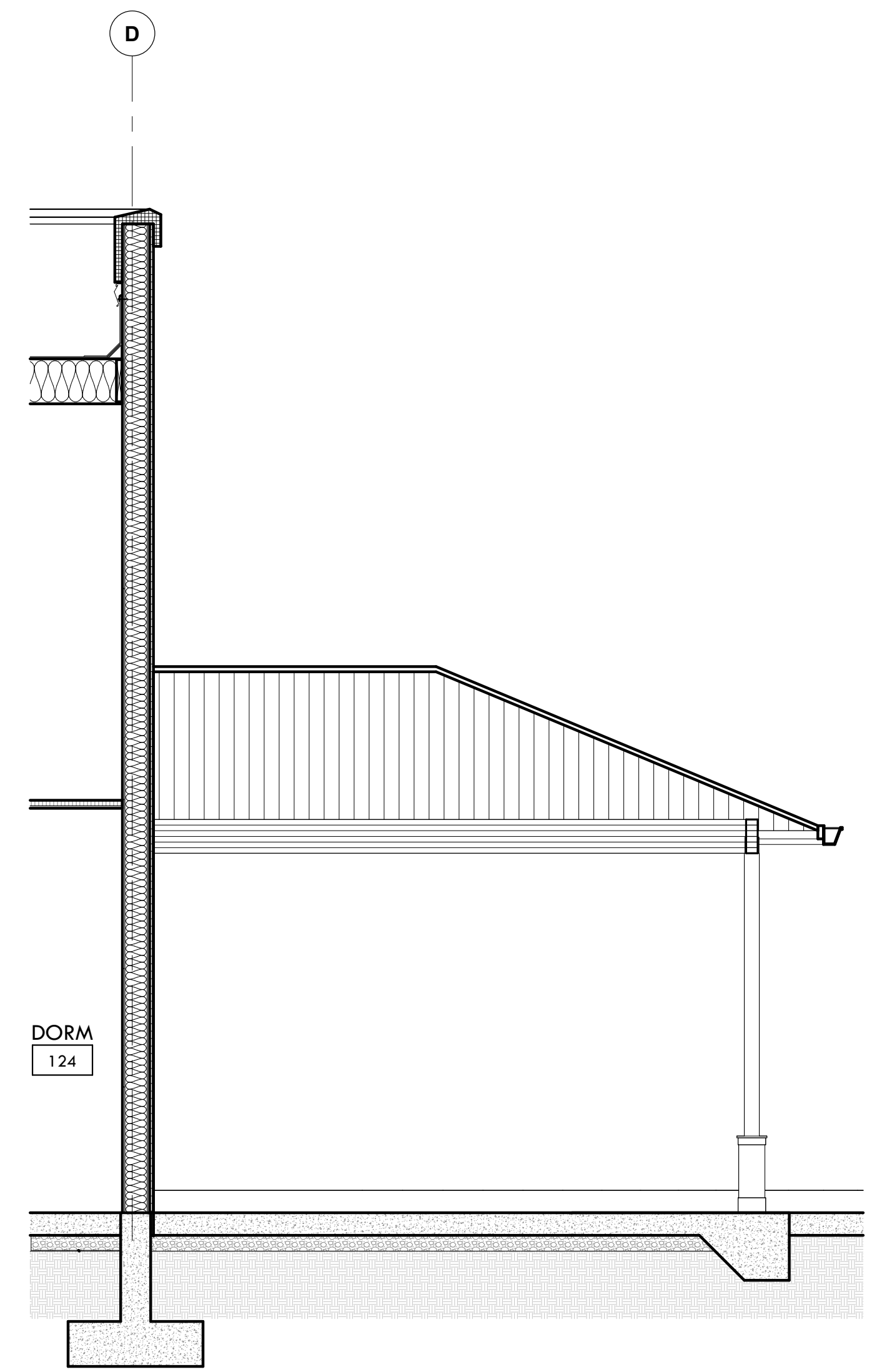
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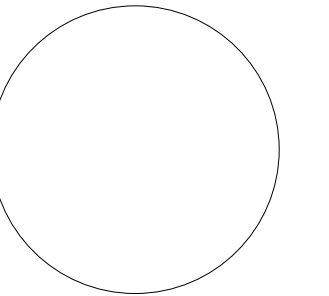
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Wall Section 6
3/8" = 1'-0" 0 2' 8'



3
Wall Section 7
3/8" = 1'-0" 0 2' 8'



4
Wall Section 8
3/8" = 1'-0" 0 2' 8'



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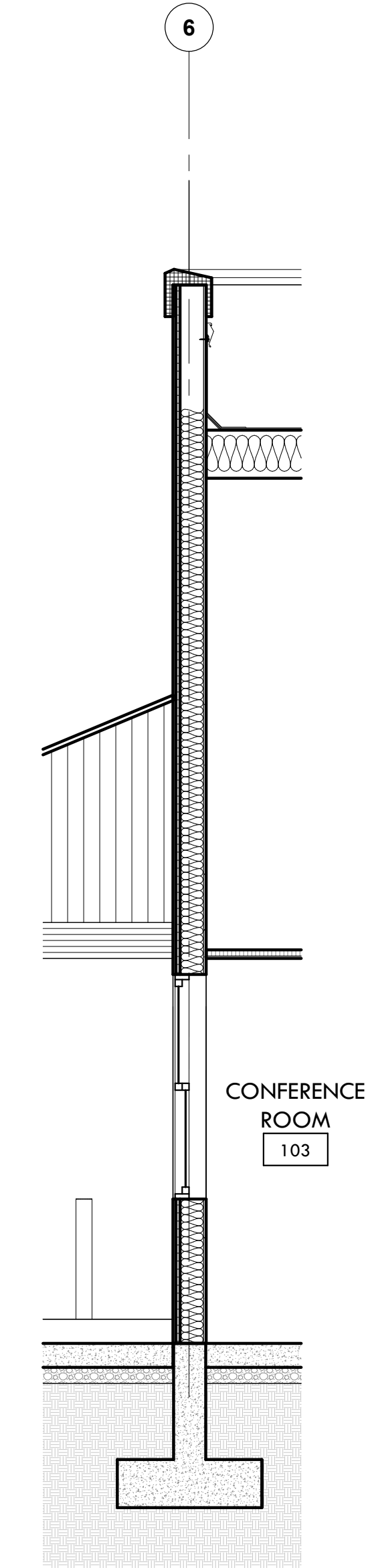
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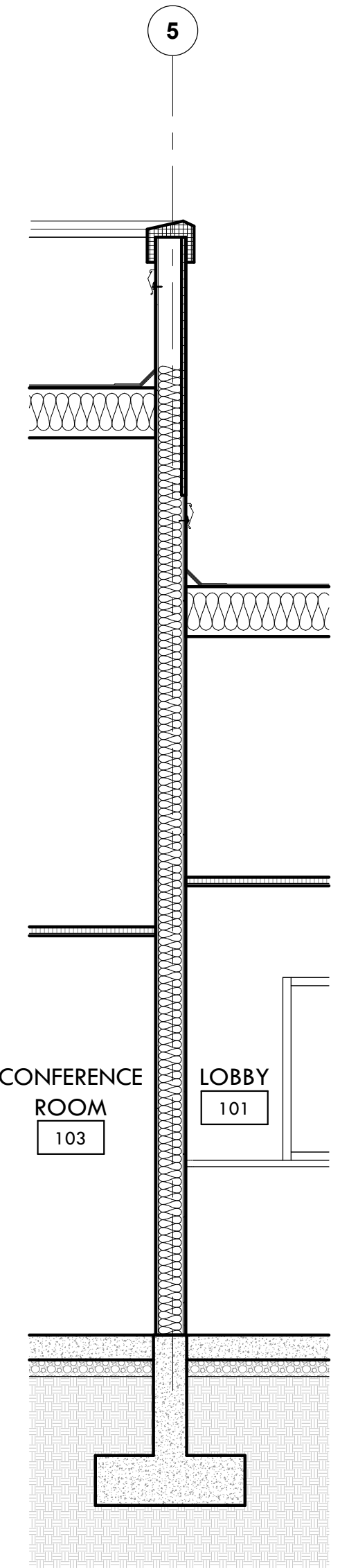
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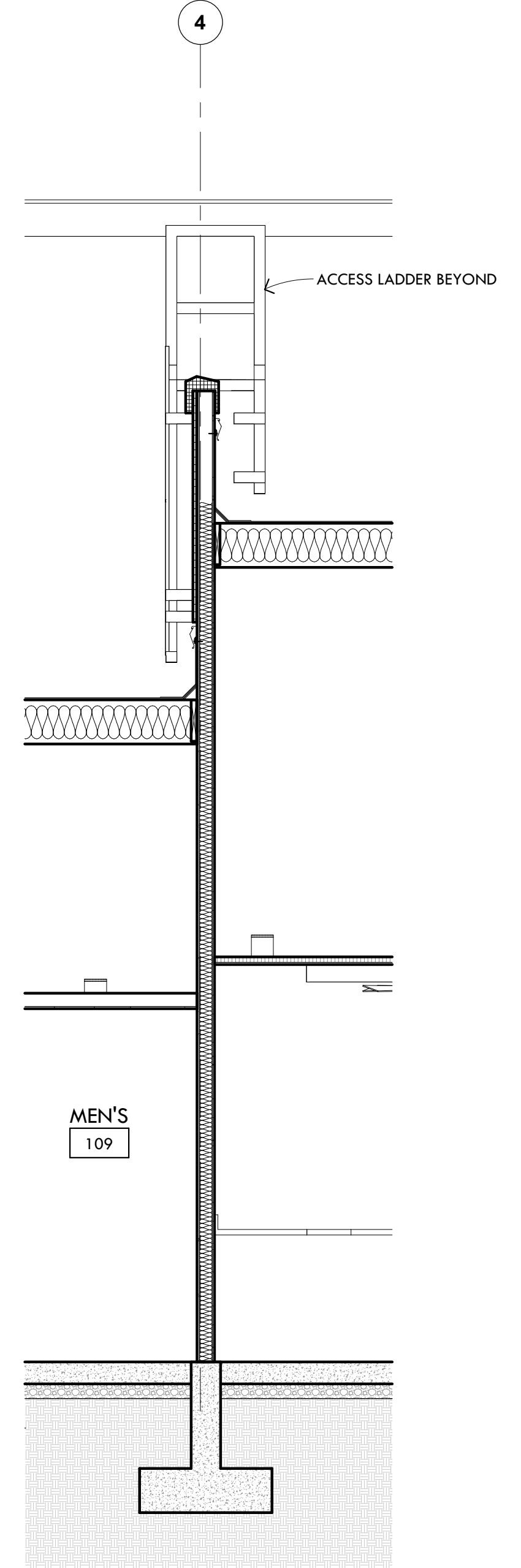
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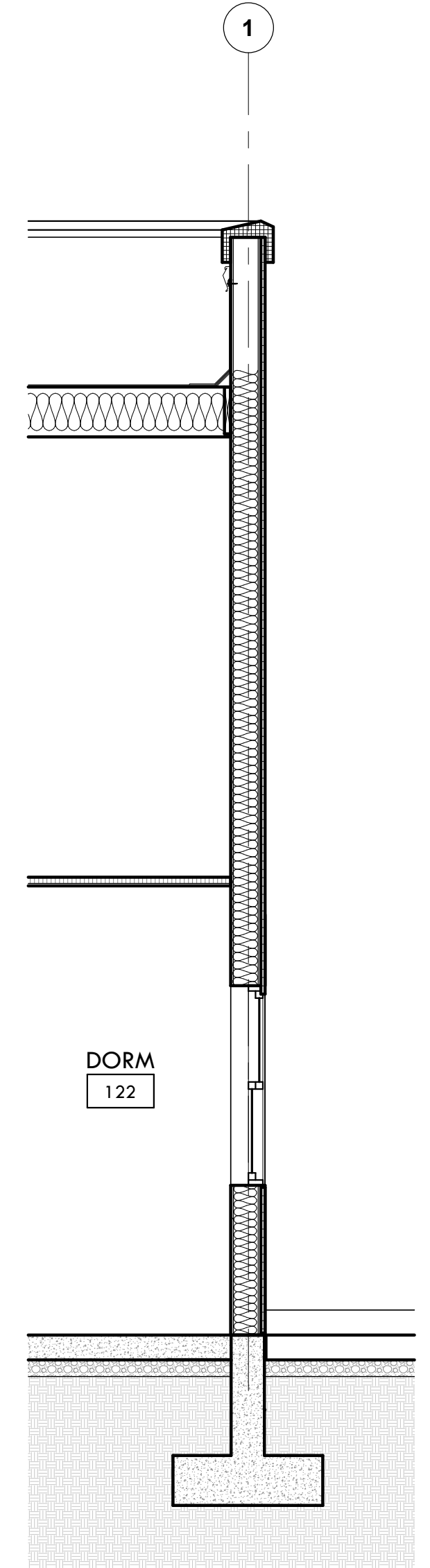
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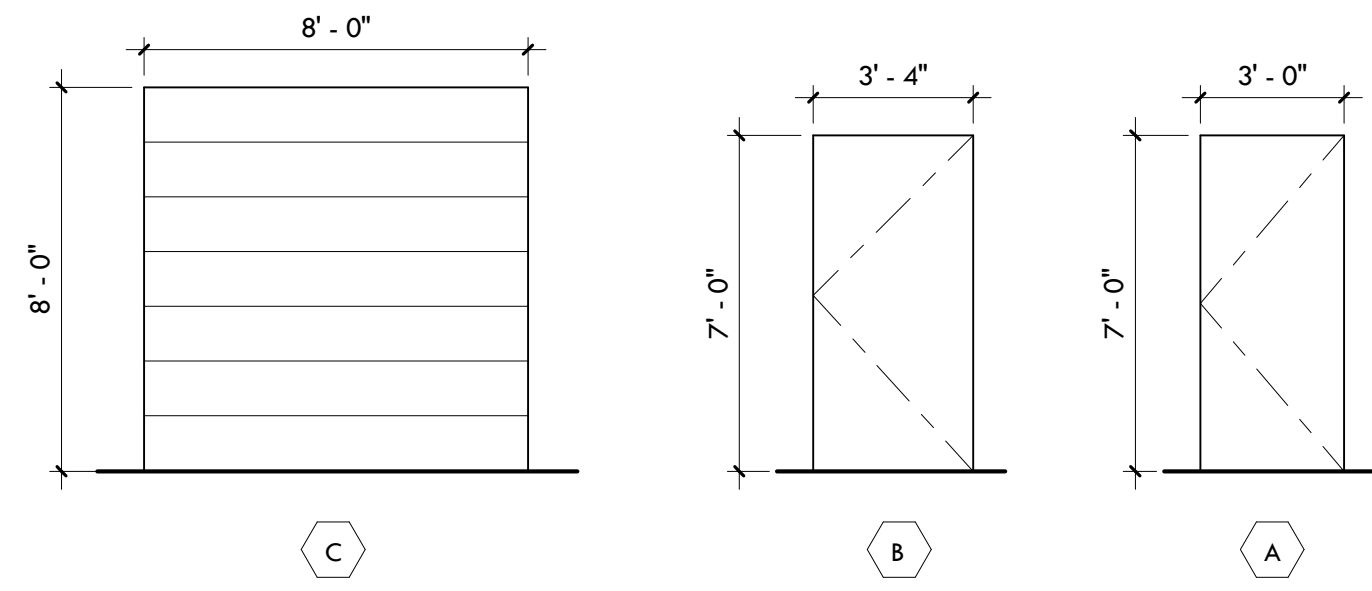
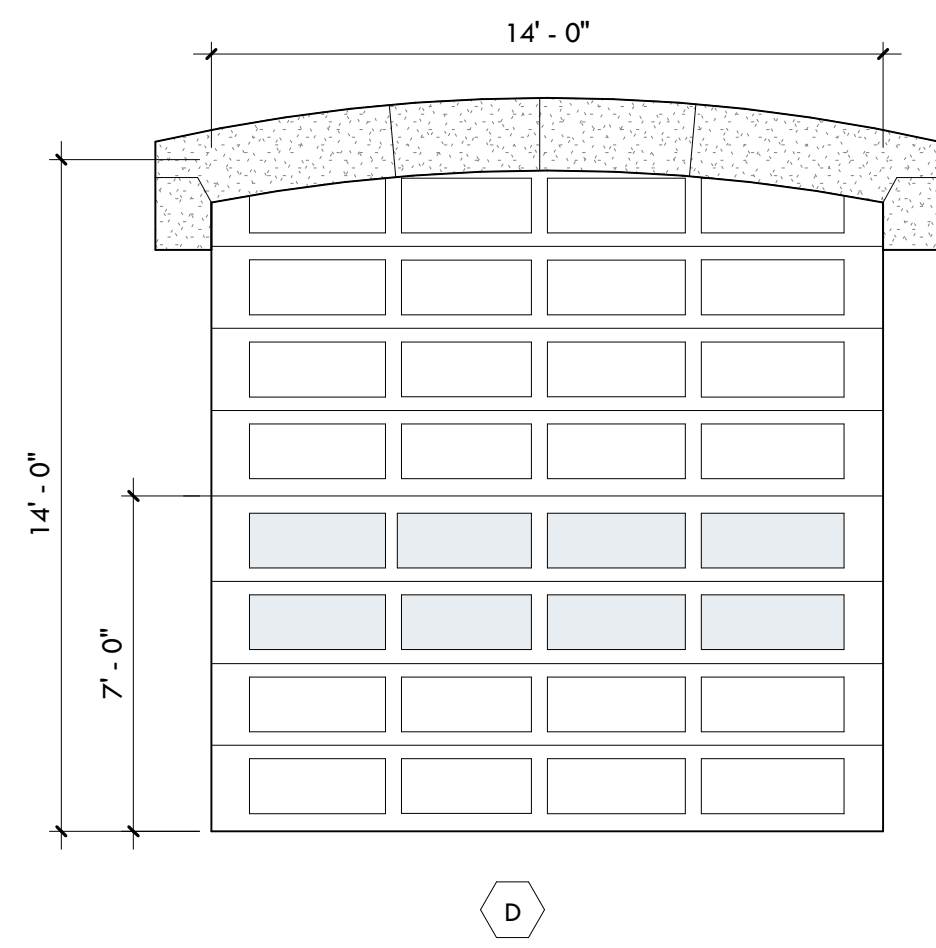
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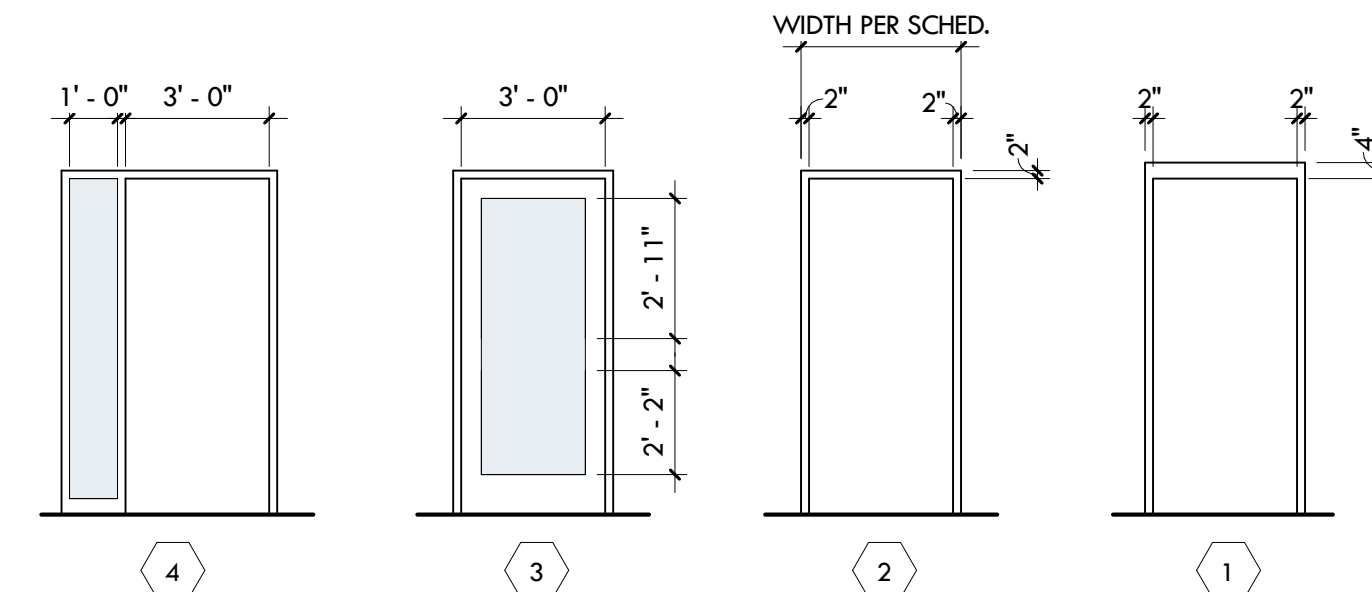
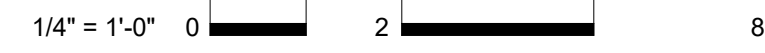
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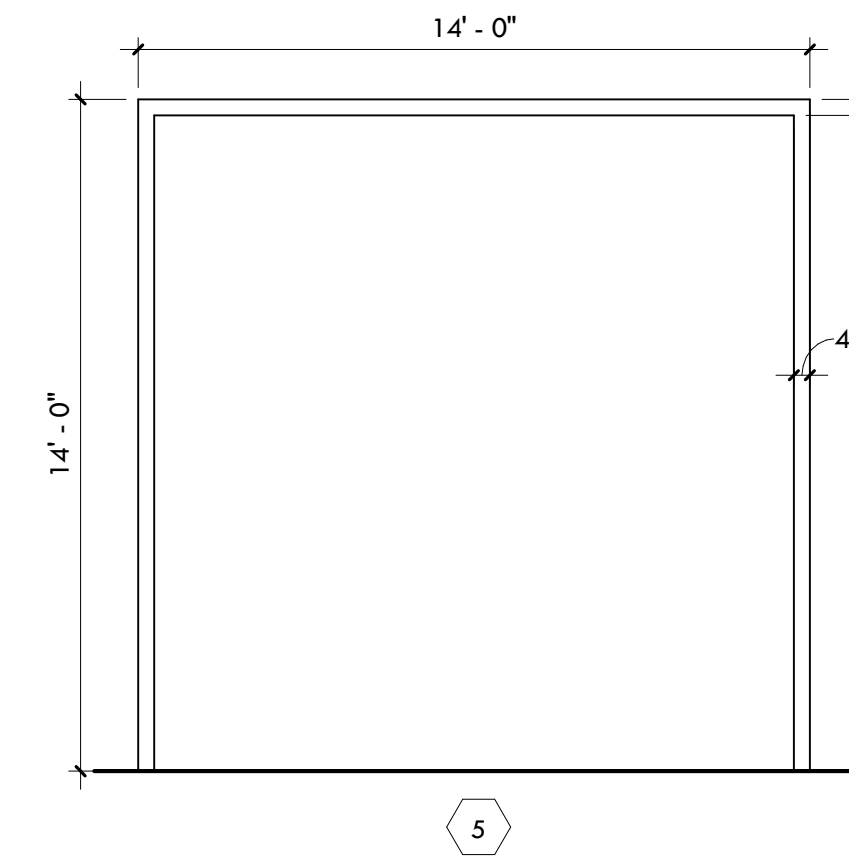
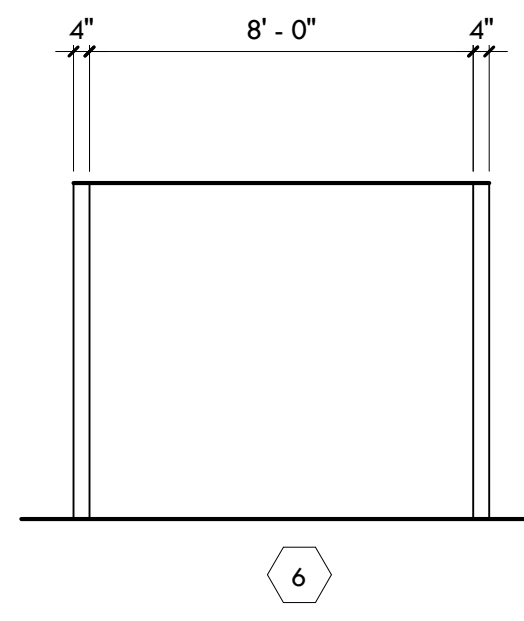
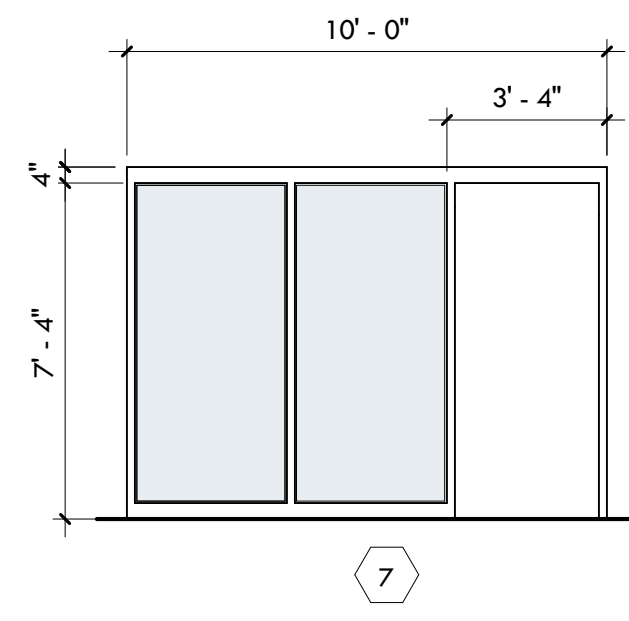
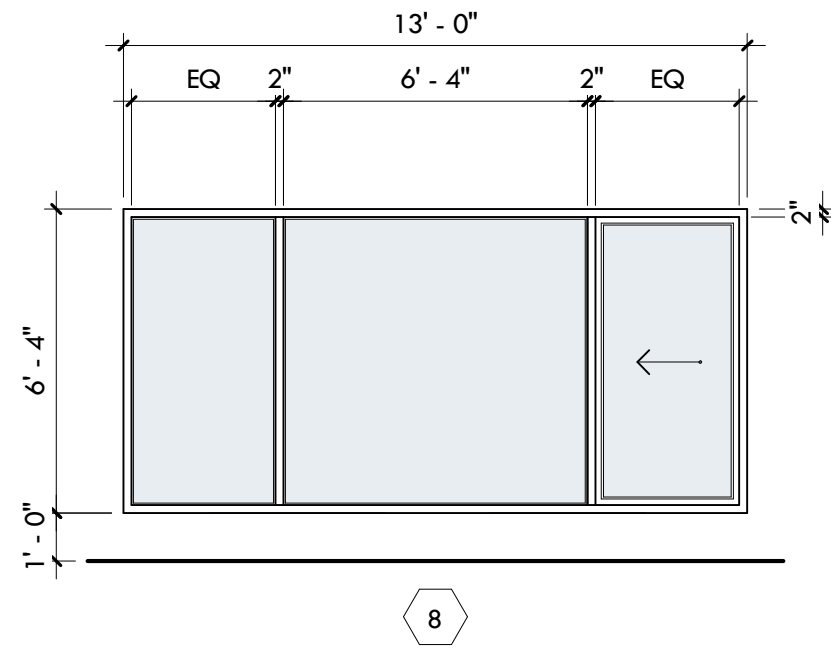
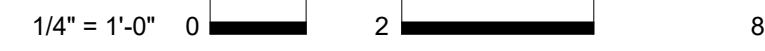
Wall Section 12
 3/8" = 1'-0" 0 2' 8'



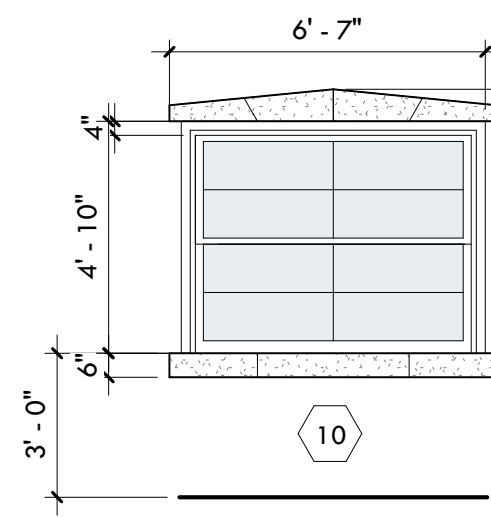
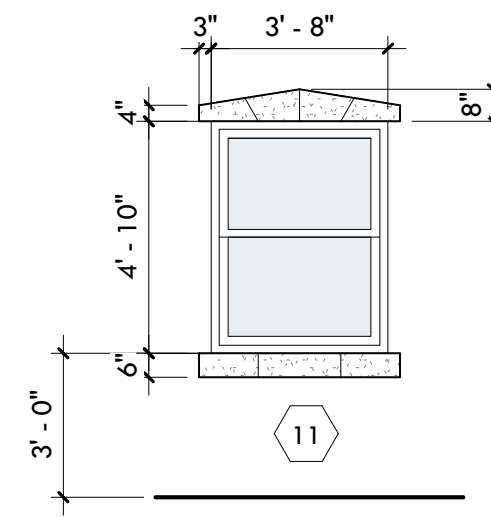
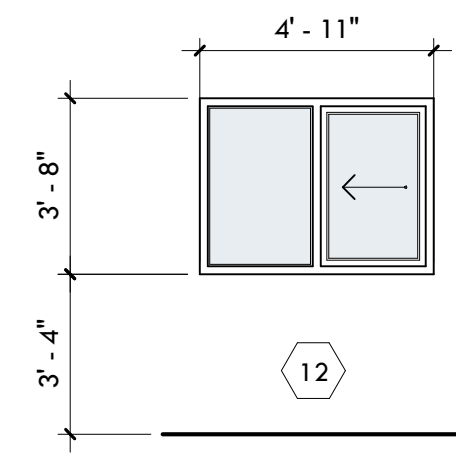
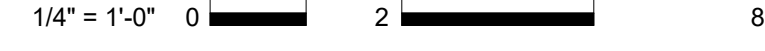
1 Door Types



2 Frame Types



3 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'-2"	3'-0"	AL	GL	7	AL	-	-	-	-	-	
102A	A	7'-0"	3'-0"	WD	GL	4	AL	20	-	-	-	-	
101B	-	-	-	-	GL	12	AL	-	-	-	-	-	
103A	L	7'-0"	3'-0"	WD	GL	4	AL	-	19	-	-	-	
103B	-	4'-10"	6'-7"	-	GL	10	AL	10	11	15	-	-	
103C	-	4'-10"	6'-7"	-	GL	10	AL	10	11	15	-	-	
103D	-	4'-10"	6'-7"	-	GL	10	AL	10	11	15	-	-	
104	A	7'-0"	3'-0"	WD	-	2	AL	20	7	-	-	-	
105A	A	7'-0"	3'-0"	WD	GL	4	AL	-	19	-	-	-	
105B	-	4'-10"	6'-7"	-	GL	10	AL	10	11	15	-	-	
106	A	7'-0"	3'-0"	WD	GL	4	AL	-	19	-	-	-	
108	A	7'-0"	3'-0"	WD	-	2	AL	20	-	-	-	-	
109	A	7'-0"	3'-0"	WD	-	2	AL	20	-	-	-	-	
112A	A	7'-0"	3'-0"	WD	-	-	AL	20	-	-	-	-	
112B	B	7'-0"	3'-4"	HM	-	2	HM	-	7	-	-	-	
113A	A	7'-0"	3'-0"	HM	-	2	HM	-	7	-	-	-	
113B	C	8'-0"	8'-0"	STL	-	6	STL	-	-	-	-	-	
113C	-	6'-0"	13'-0"	-	GL	8	AL	-	-	-	-	-	
113D	-	4'-10"	6'-7"	-	GL	10	AL	10	11	15	-	-	
114A	A	7'-0"	3'-0"	WD	-	2	AL	20	-	-	-	-	
114B	-	4'-10"	6'-7"	-	GL	10	HM	13	17	-	-	-	
115A	B	7'-0"	3'-4"	HM	-	2	HM	20	-	-	-	-	
115B	B	7'-0"	3'-4"	HM	-	3	HM	-	6	-	-	-	
116	A	7'-0"	3'-0"	WD	-	2	AL	20	-	-	-	-	
119B	-	4'-10"	3'-8"	-	GL	11	AL	10	11	15	-	-	
117	A	7'-0"	3'-0"	WD	-	2	AL	20	6	-	-	-	
120B	-	4'-10"	3'-8"	-	GL	11	AL	10	11	15	-	-	
118A	A	7'-0"	3'-0"	WD	GL	4	AL	20	-	-	-	-	
121B	-	4'-10"	3'-8"	-	GL	11	AL	10	11	15	-	-	
118B	A	7'-0"	3'-0"	WD	-	2	AL	20	-	-	-	-	
122B	-	4'-10"	3'-8"	-	GL	11	AL	10	11	15	-	-	
118C	K	7'-0"	3'-4"	HM	-	2	HM	-	7	-	-	-	
119A	A	7'-0"	3'-0"	WD	-	2	AL	20	-	-	-	-	
124B	-	4'-10"	3'-8"	-	GL	11	AL	10	11	15	-	-	
120A	A	7'-0"	3'-0"	WD	-	2	AL	20	-	-	-	-	
121A	A	7'-0"	3'-0"	WD	-	2	AL	20	-	-	-	-	
122A	A	7'-0"	3'-0"	WD	-	2	AL	20	-	-	-	-	
123	A	7'-0"	3'-0"	WD	-	2	AL	20	-	-	-	-	
124A	A	7'-0"	3'-0"	WD	-	2	AL	20	-	-	-	-	
125	A	7'-0"	3'-0"	WD	-	2	AL	20	-	-	-	-	
126A	K	7'-0"	3'-4"	HM	-	3	HM	-	6	-	-	-	
126B	D	14'-0"	14'-0"	STL	GL	5	STL	-	-	-	-	-	
126C	D	14'-0"	14'-0"	STL	GL	5	STL	-	-	-	-	-	
126D	D	14'-0"	14'-0"	STL	GL	5	STL	-	-	-	-	-	
126E	K	7'-0"	3'-4"	HM	-	3	HM	1	6	-	-	-	
126F	K	7'-0"	3'-4"	HM	-	3	HM	1	6	-	-	-	
126G	D	14'-0"	14'-0"	STL	GL	5	STL	-	-	-	-	-	
126H	D	14'-0"	14'-0"	STL	GL	5	STL	-	-	-	-	-	
126I	D	14'-0"	14'-0"	STL	GL	5	STL	-	-	-	-	-	

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 SIGNAL SCHEDULE ON SHEET A9.1



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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: JULY 2024

#	DATE	DESCRIPTION	ISSUED TO

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CHECKED BY: CDA

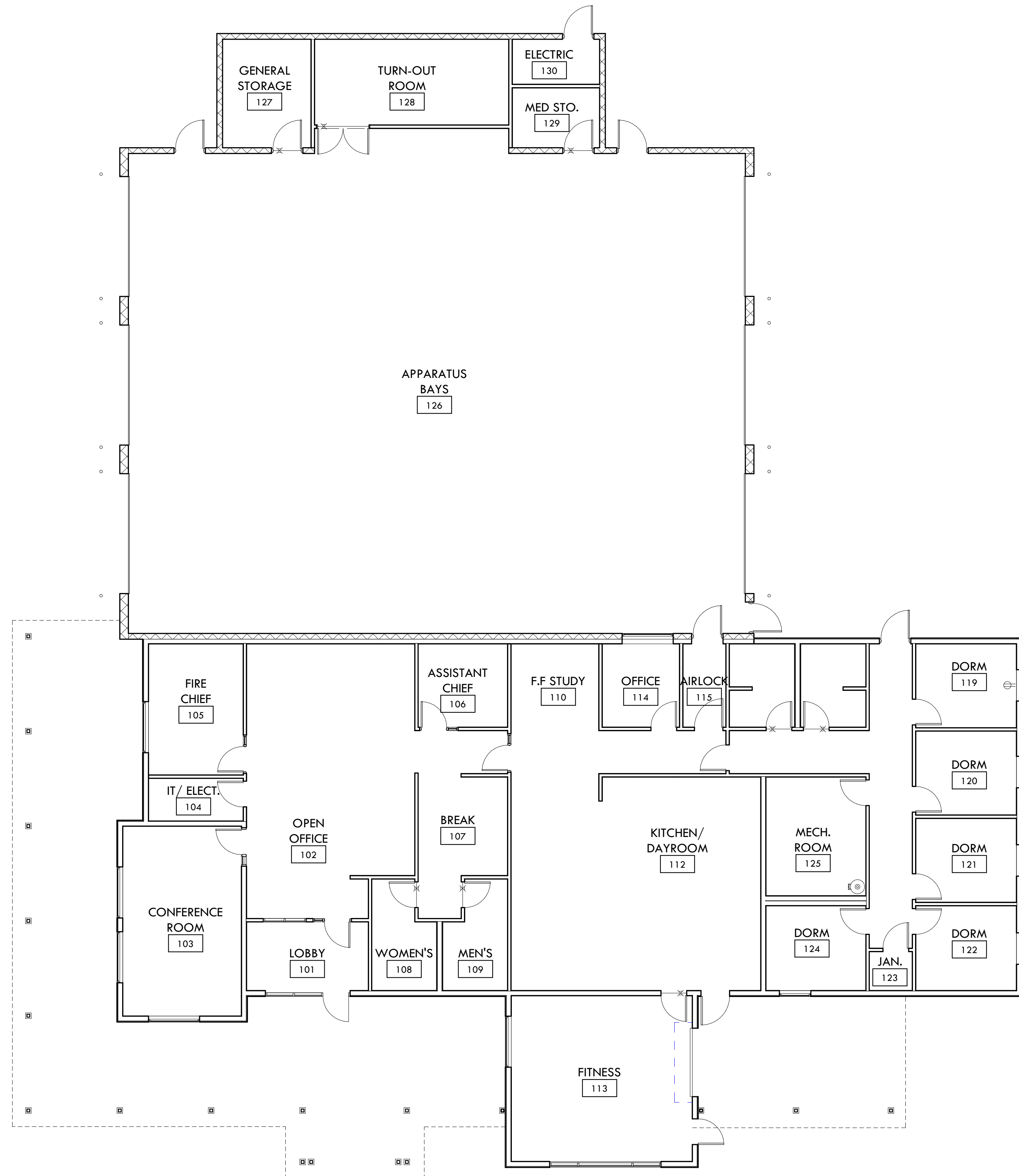
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Opening Schedule & Door & Window Frame

A8.1



Floor Finish Plan

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

Room Finish Schedule

Number	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/ELECT.	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	JAN.	PC	VB	FRP	FRP	P1	P1	8'-0"	ACT-2	-	
124	DORM	PC	VB	P1	P1	P1	P1	10'-0"	ACT-3	-	
125	MECH. ROOM	SC	VB	P1	P1	P1	P1	-	ES	-	1
126	APPARATUS BAYS	SC	-	P1	P1	P1	P1	-	ES	-	
127	GENERAL STORAGE	RE	VB	FRP	FRP	FRP	FRP	-	ES	-	1,4
128	TURN-OUT ROOM	RE	VB	FRP	FRP	FRP	FRP	-	ES	-	1,4
129	MED. STO.	RE	VB	FRP	FRP	FRP	FRP	-	ES	-	1,4
130	ELECTRIC	RE	VB	FRP	FRP	FRP	FRP	-	ES	-	
131	HALL	PC	VB	P1	P1	P1	P1	-	ACT-1	-	

ROOM FINISH LEGEND

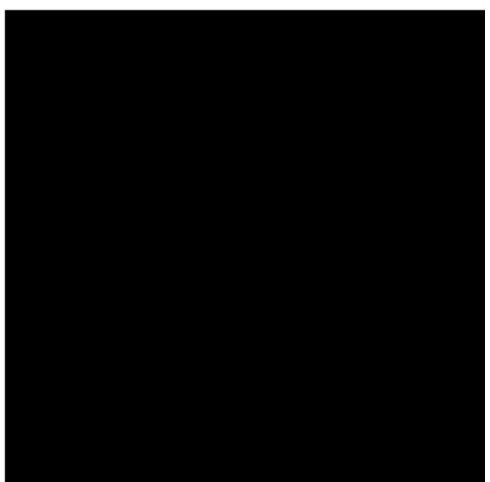
FLOOR	WALLS
SC SEALED CONCRETE	CT CERAMIC TILE
VB RUBBER WALL BASE	P1 PAINT - FIELD COLOR
SPF ATHLETIC FLOORING	P2 PAINT - ACCENT COLOR
AFB RUBBER WALL BASE	P3 PAINT - DOOR FRAMES
RE EPOXY FLOOR FINISH	FRP FIBER REINFORCED PANEL
PC POLISHED CONCRETE	CEILING
CMU CONCRETE MASONRY	GWG GYPSM WALL BOARD
	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	F	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	WOMEN'S	A	1	BATHROOM	
109	109	MEN'S	A	1	BATHROOM	
110	-	F.F. STUDY	A	1	FIRE FIGHTERS STUDY	
111	-	DAYROOM	A	1	DAYROOM	
112	112A	KITCHEN	A	1	KITCHEN	
112	112B	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	
123	123	JAN.	A	1	JANITOR	
124	124A	DORM	A	1	DORM	
125	125	MECHANICAL ROOM	A	1	MECHANICAL ROOM	
126	126A	APPARATUS BAYS	B	1	APPARATUS BAYS	
126	126B	APPARATUS BAYS	D	1	APPARATUS BAYS	
126	126C	APPARATUS BAYS	D	1	APPARATUS BAYS	
126	126D	APPARATUS BAYS	D	1	APPARATUS BAYS	
126	126E	APPARATUS BAYS	E	1	APPARATUS BAYS	
126	126F	APPARATUS BAYS	E	1	APPARATUS BAYS	
126	126G	APPARATUS BAYS	D	1	APPARATUS BAYS	
126	126H	APPARATUS BAYS	D	1	APPARATUS BAYS	
126	126I	APPARATUS BAYS	D	1	APPARATUS BAYS	
128	128	GENERAL STORAGE	E	1	GENERAL STORAGE	
129	129	TURN-OUT ROOM	A	1	TURN-OUT ROOM	
130	130	MED. STO.	E	1	MEDICAL STORAGE	
131	131	ELECTRIC	E	1	ELECTRICITY	

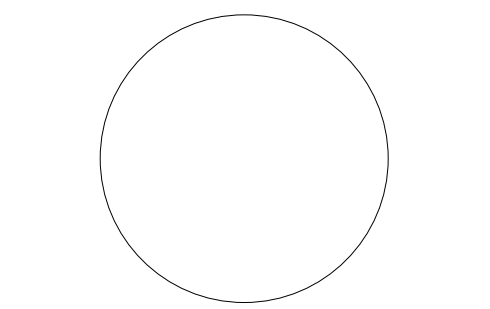


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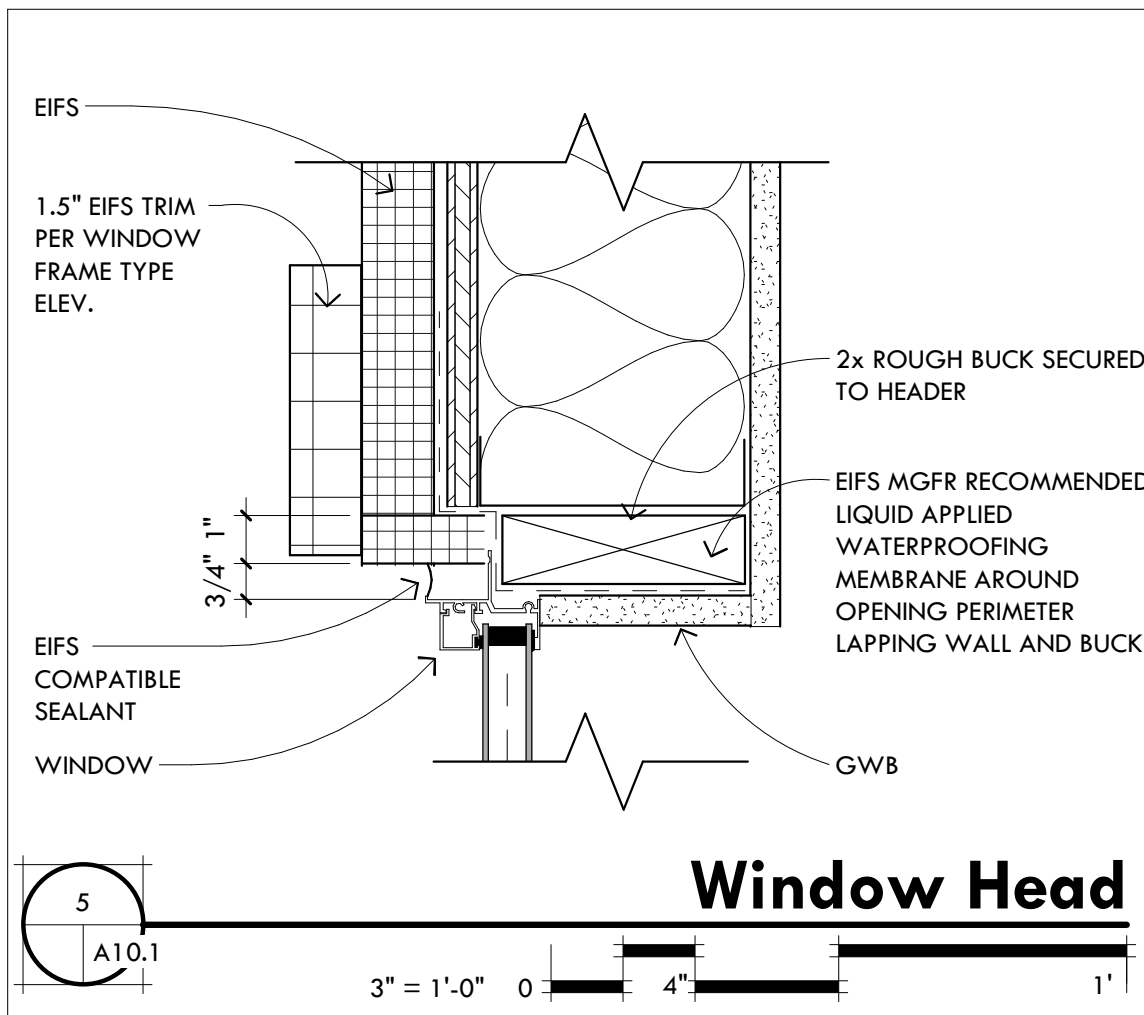
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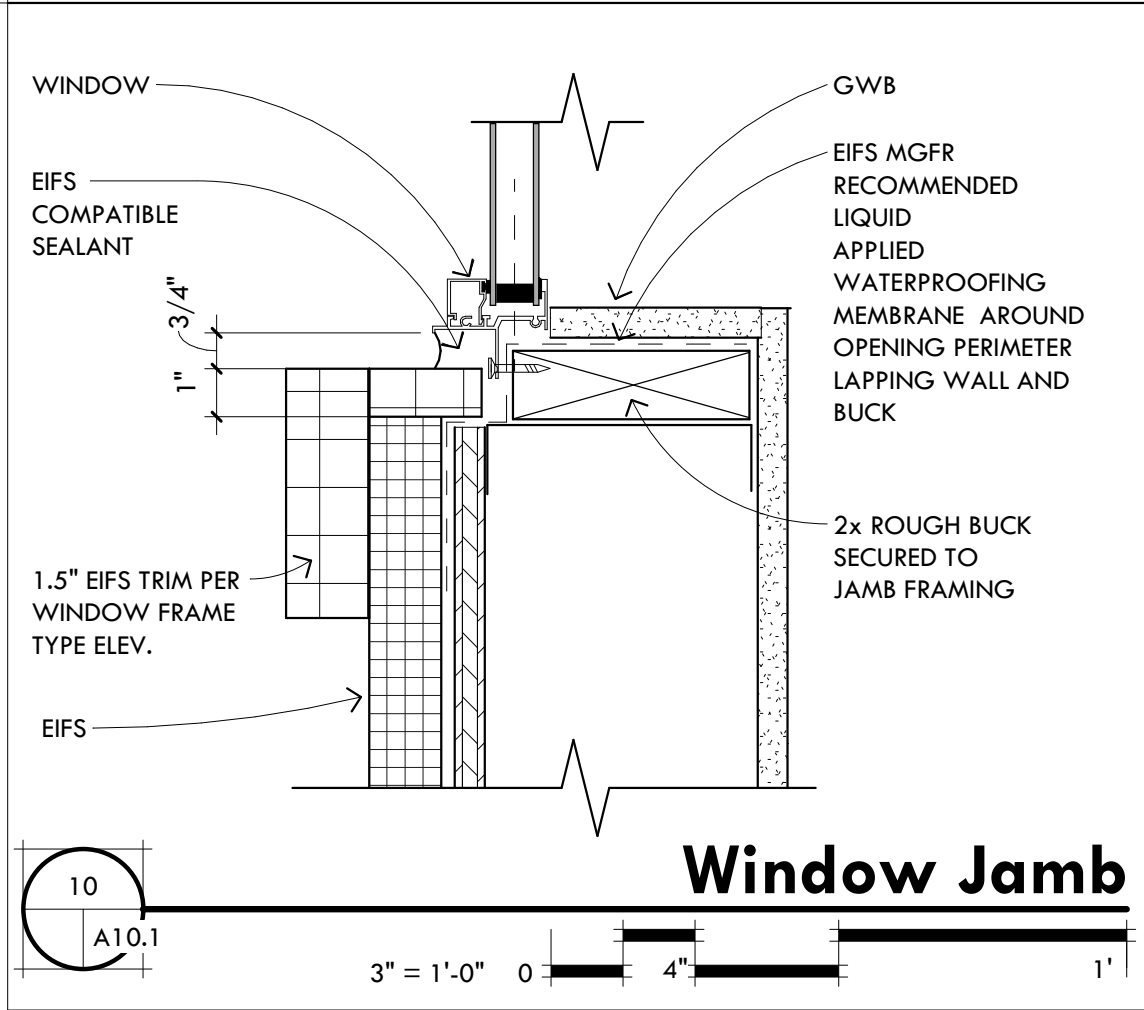
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Room Finish Schedule

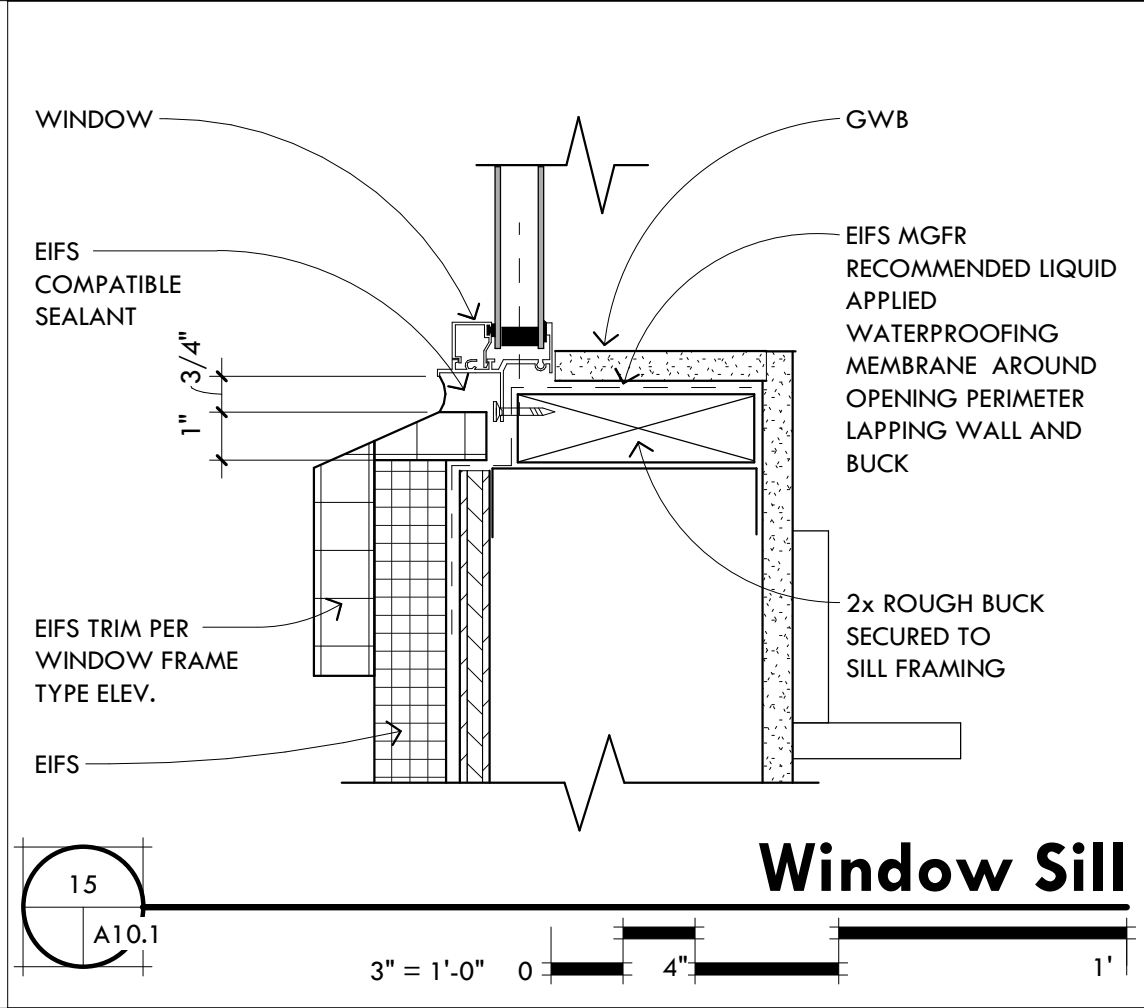
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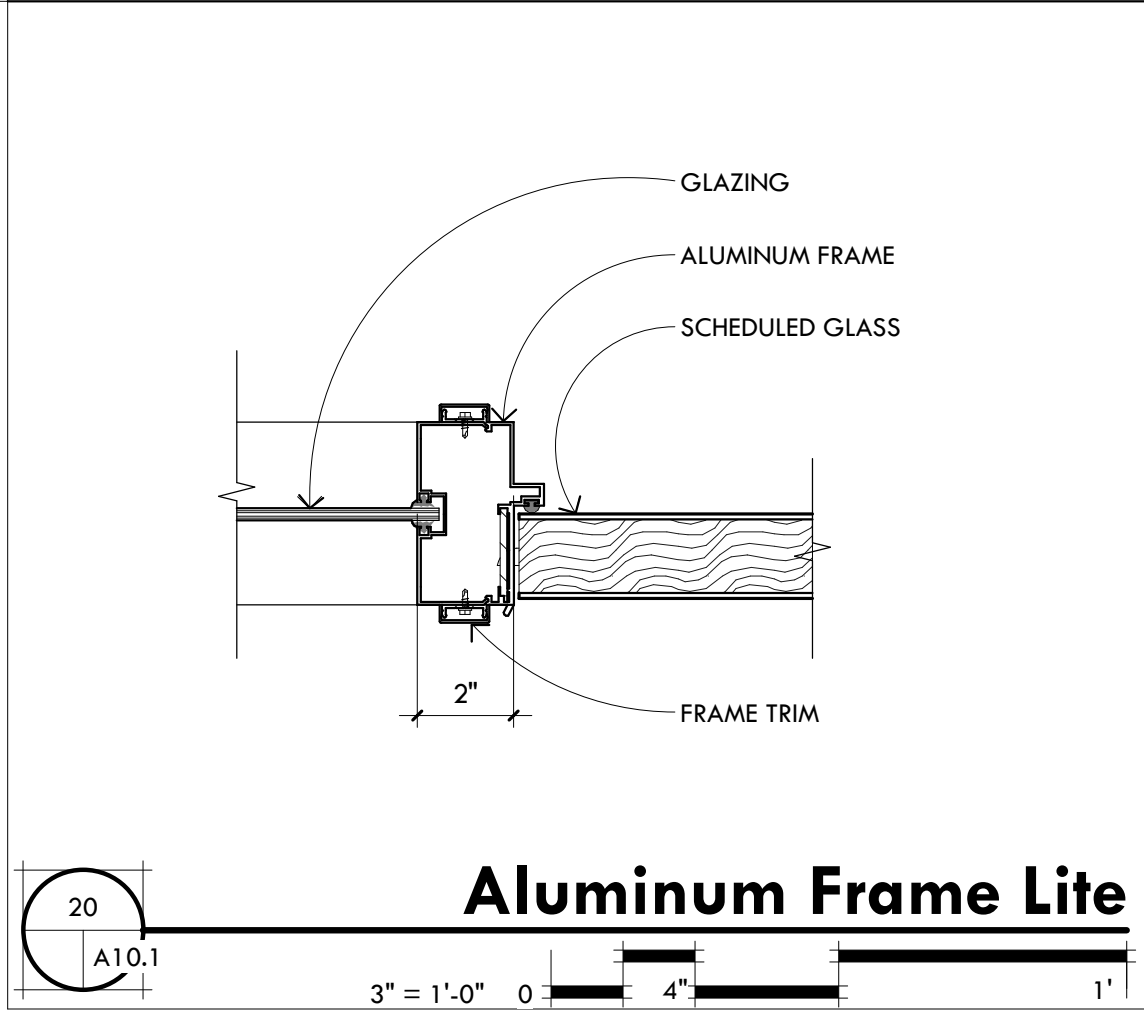
Window Head



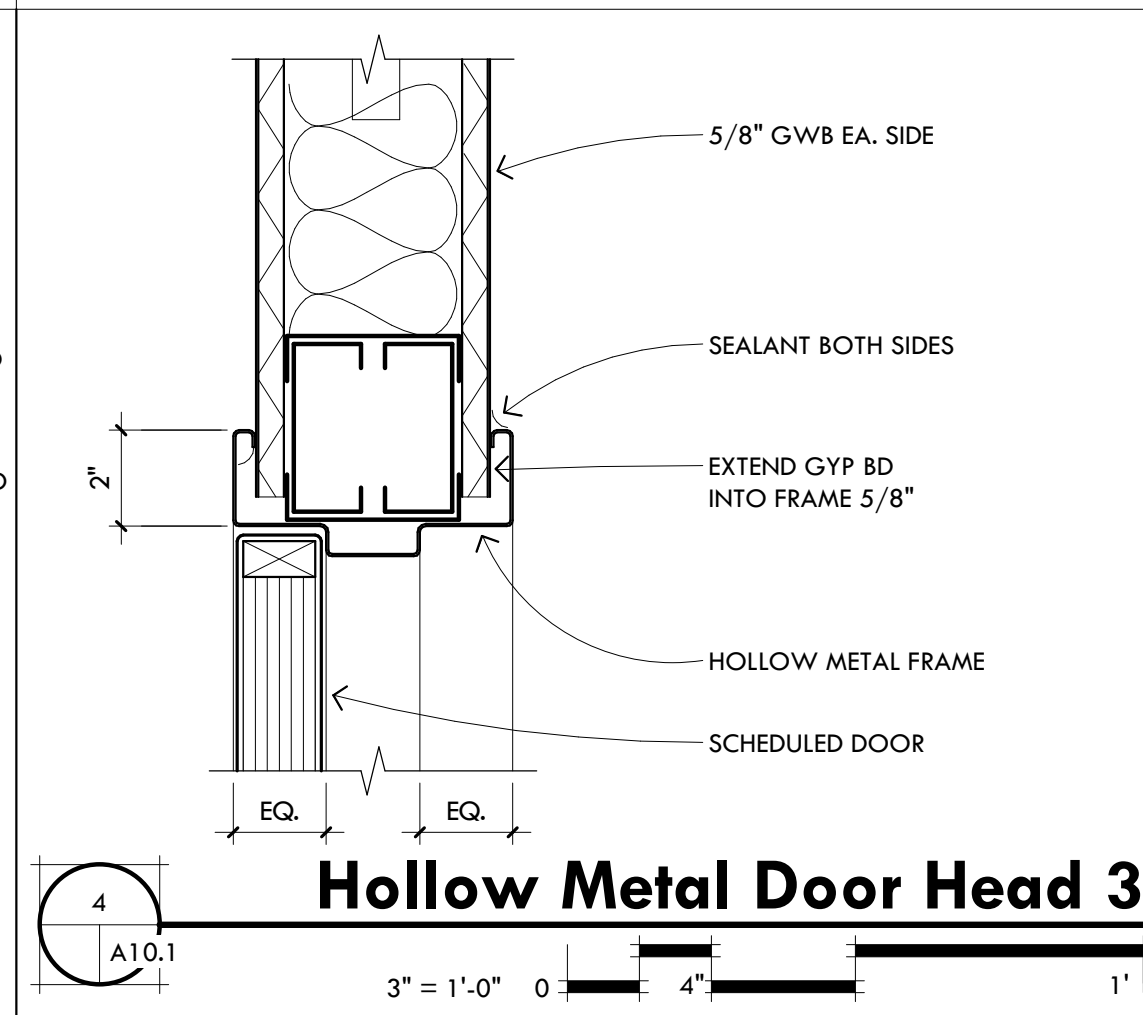
Window Jamb



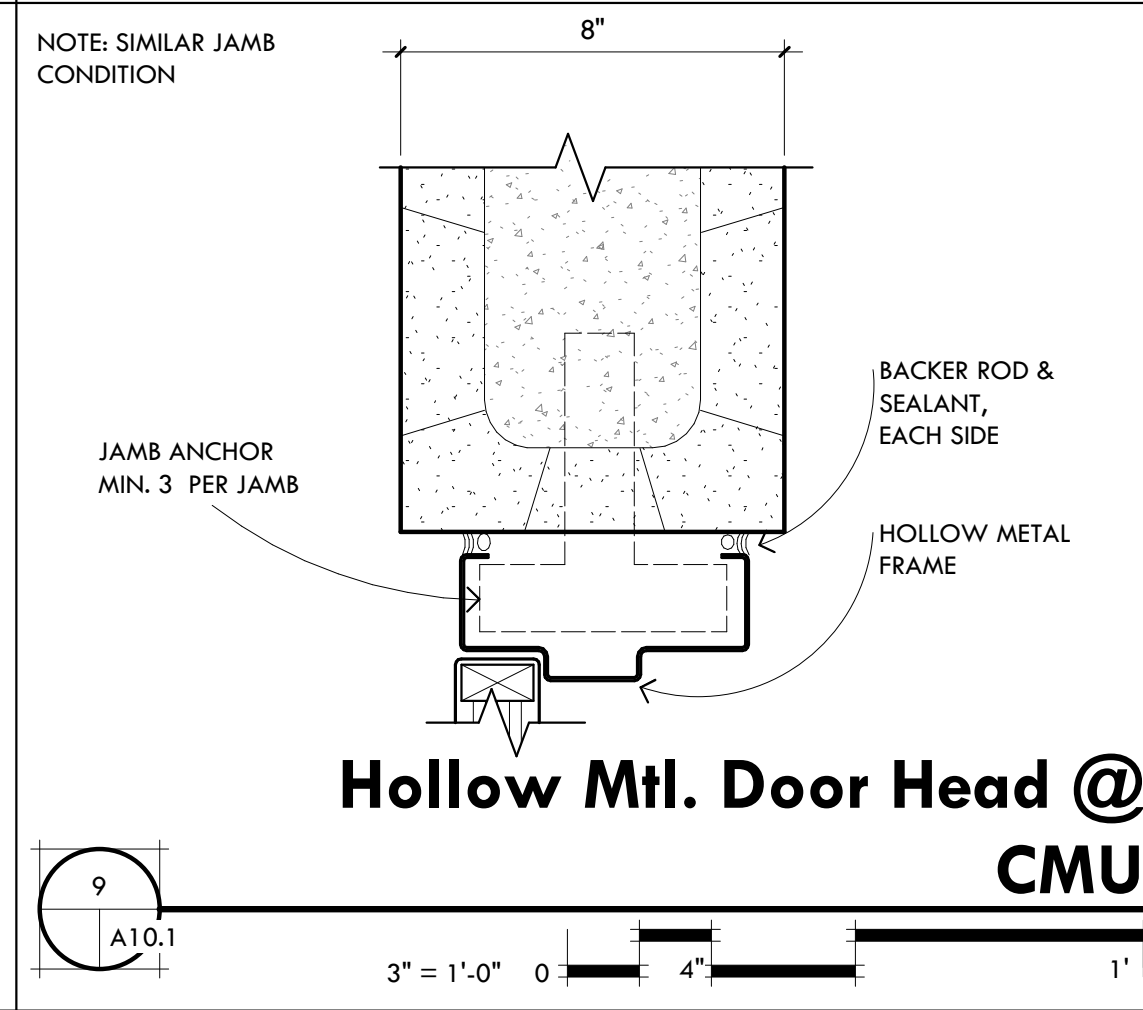
Window Sill



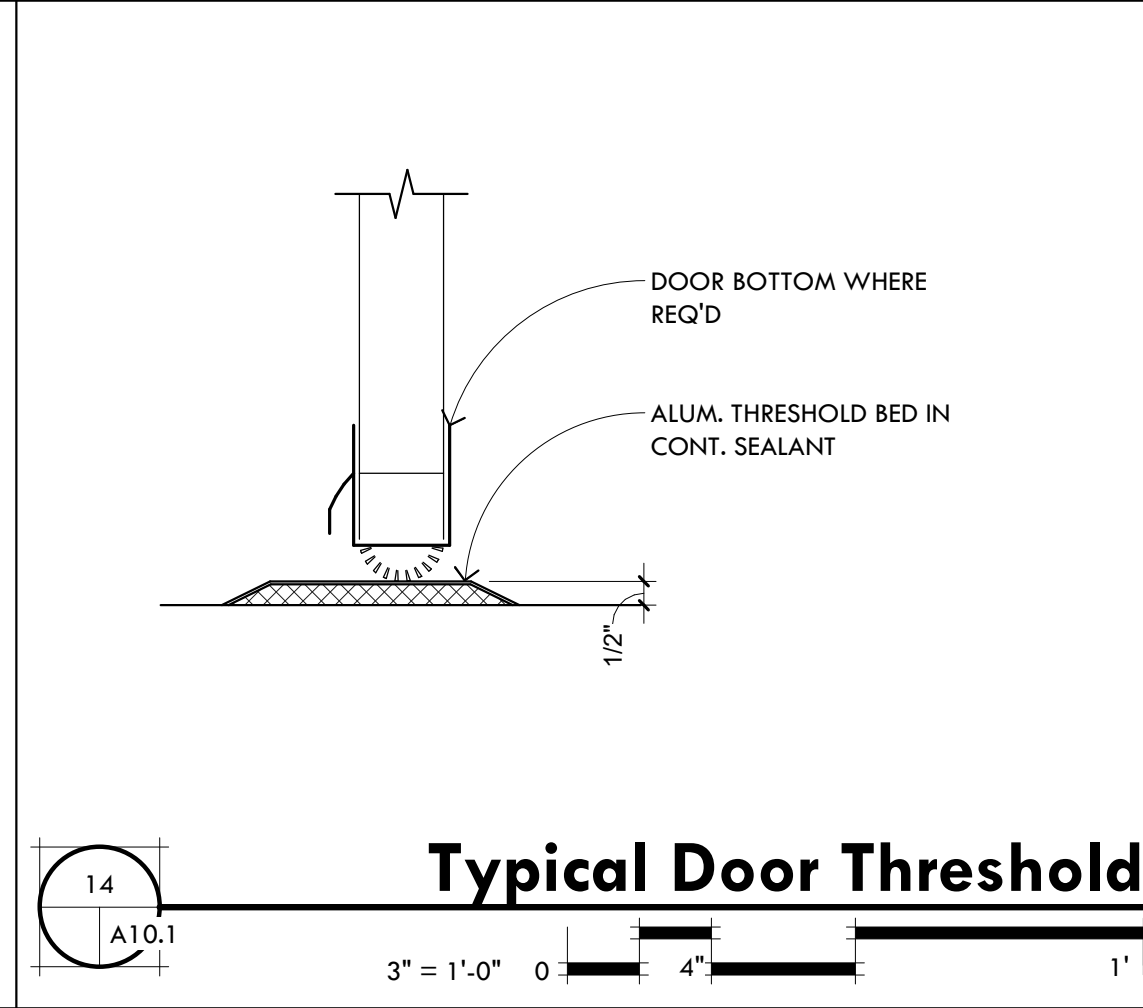
Aluminum Frame Lite



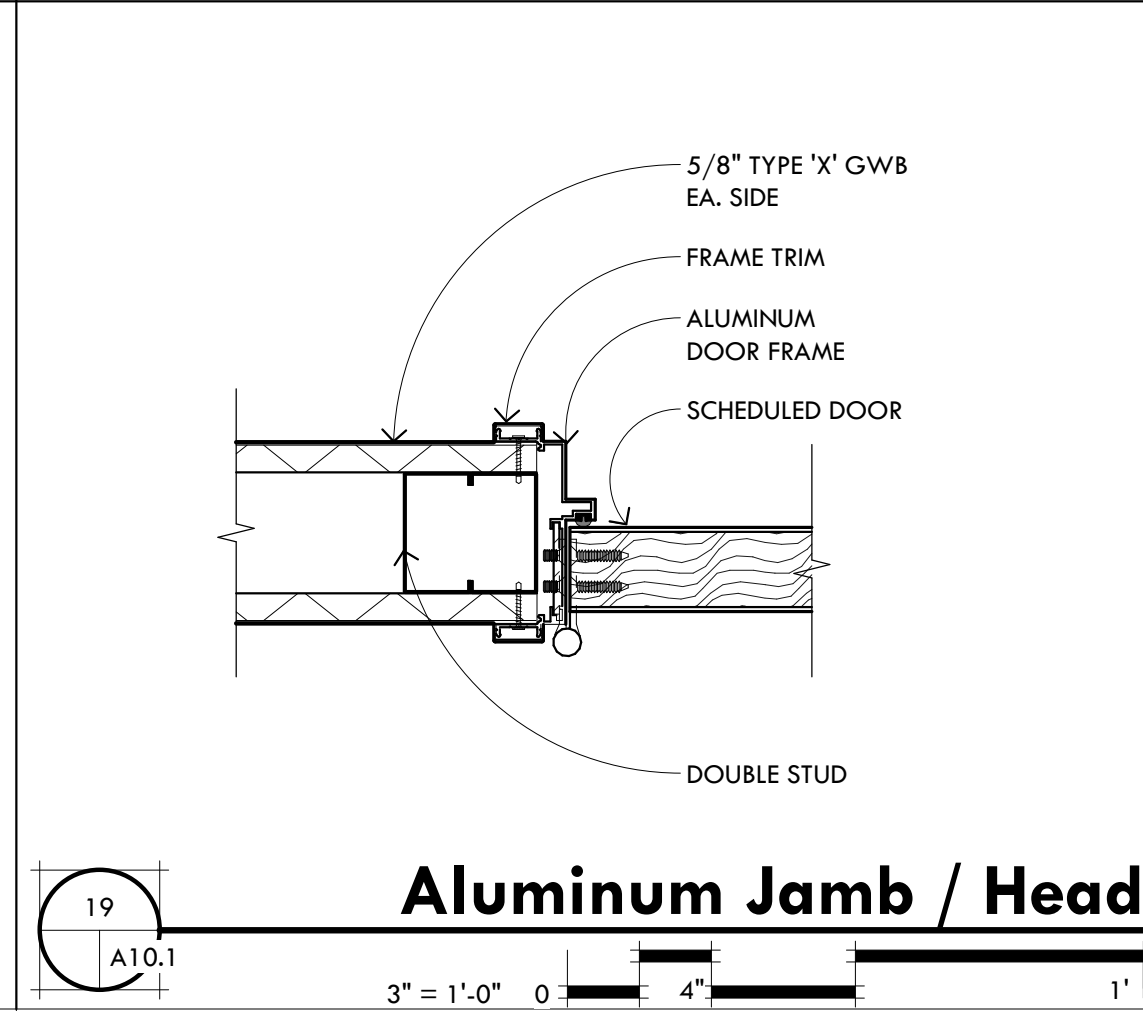
Hollow Metal Door Head 3



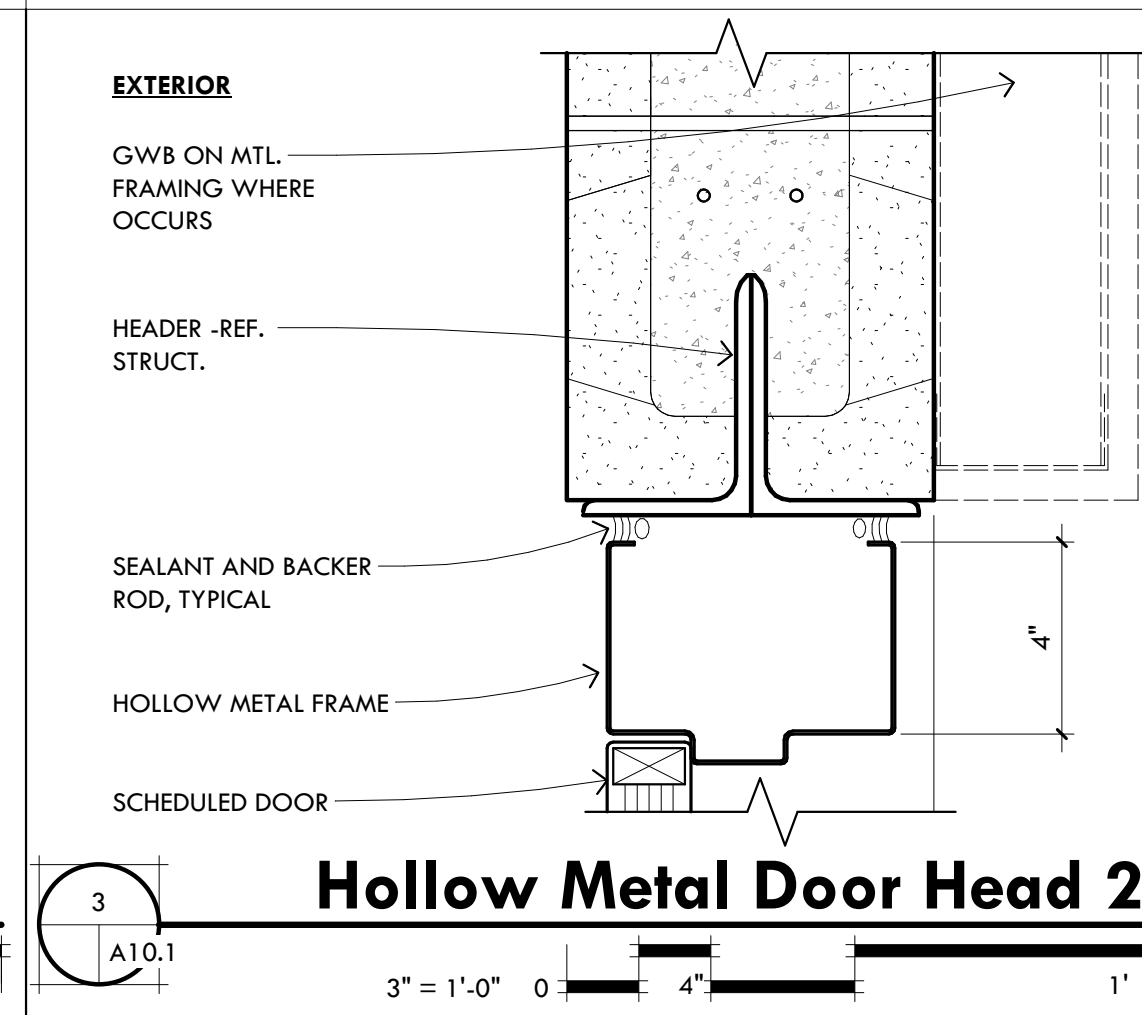
Hollow Mtl. Door Head @ CMU



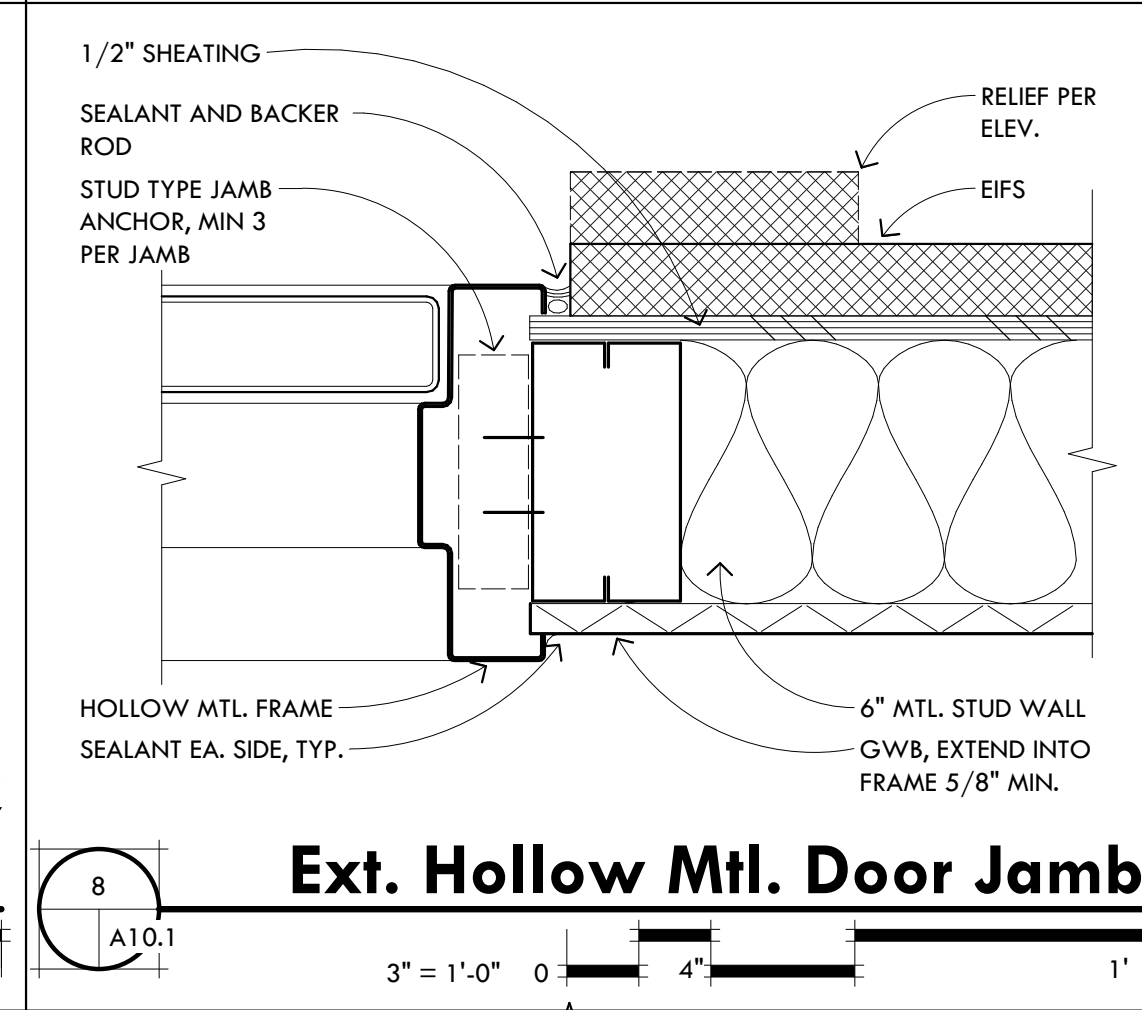
Typical Door Threshold



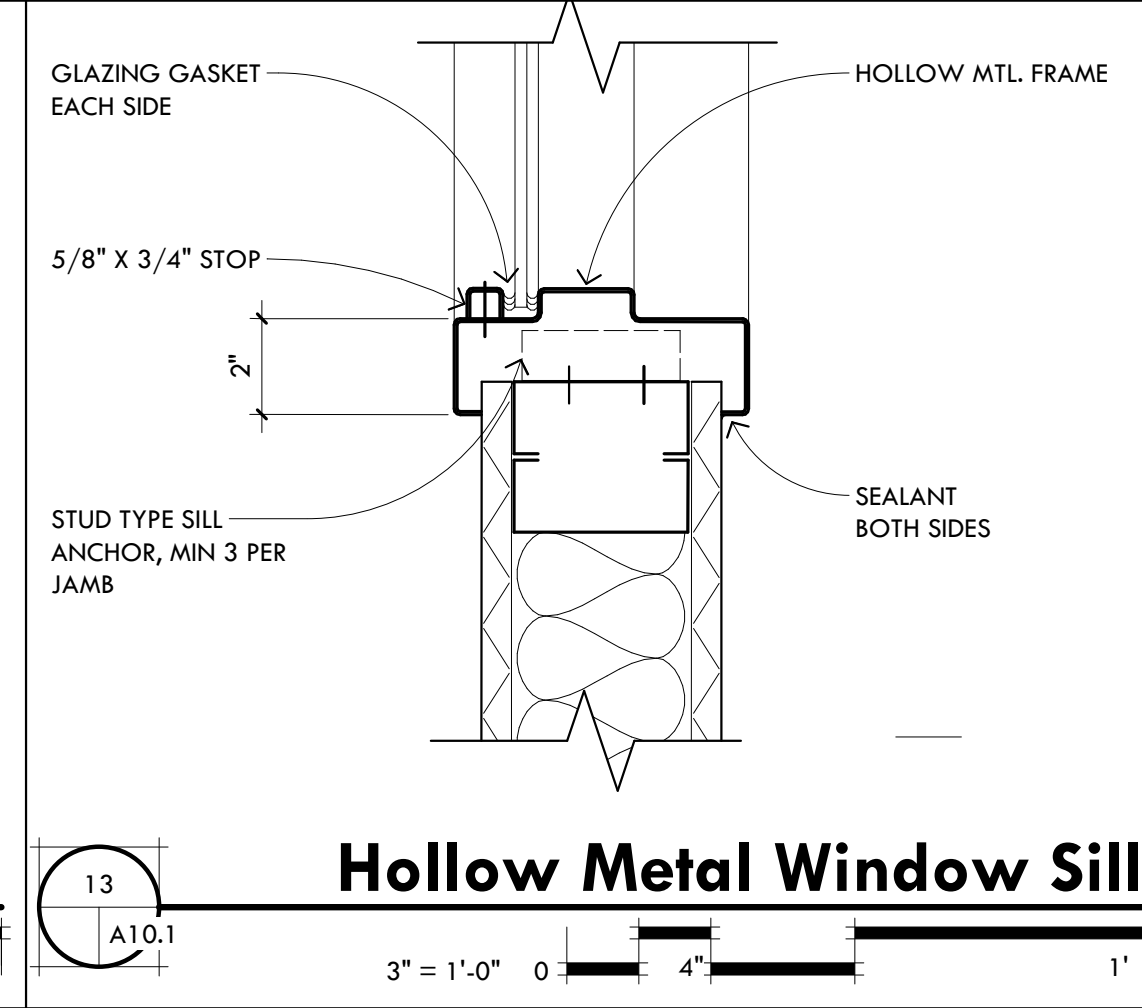
Aluminum Jamb / Head



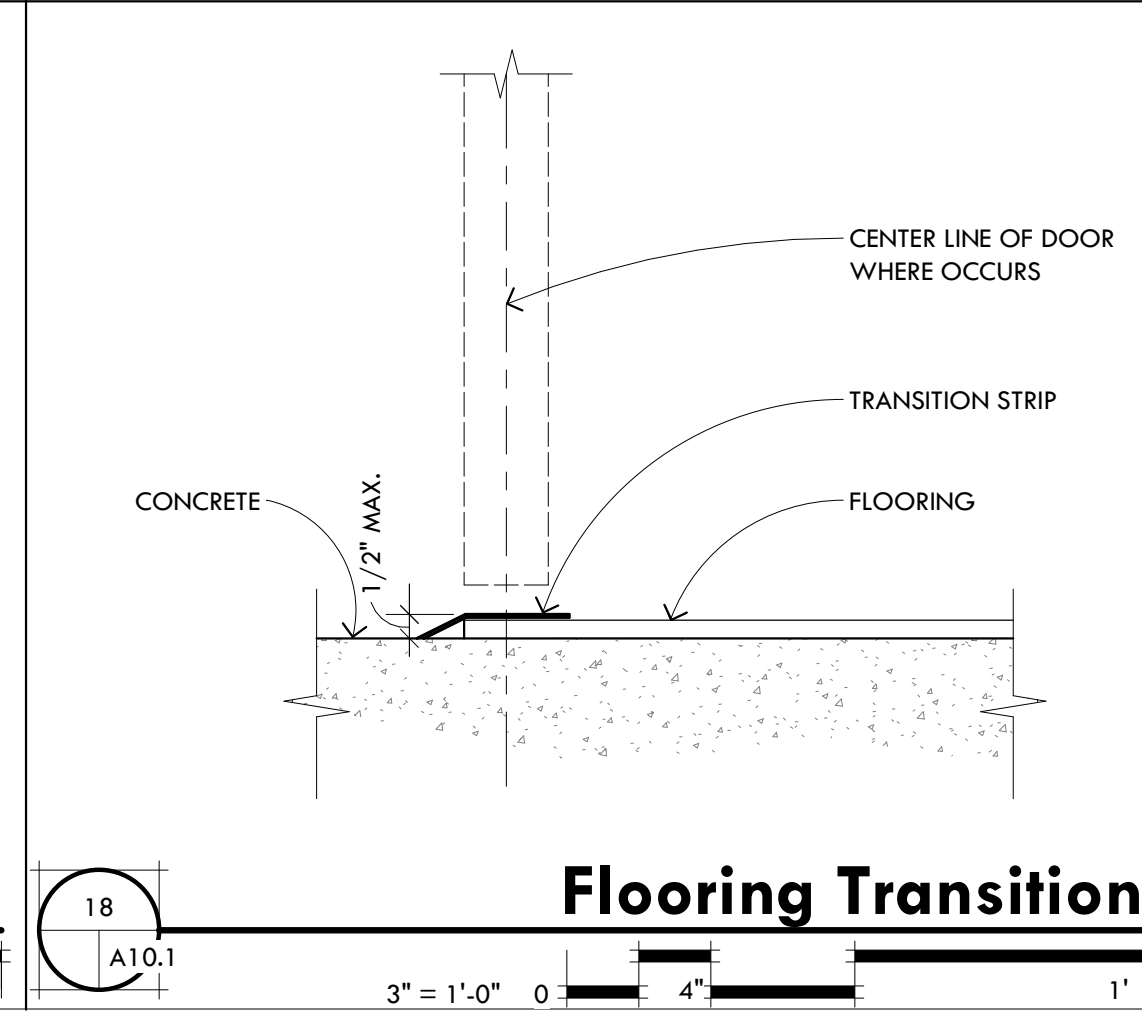
Hollow Metal Door Head 2



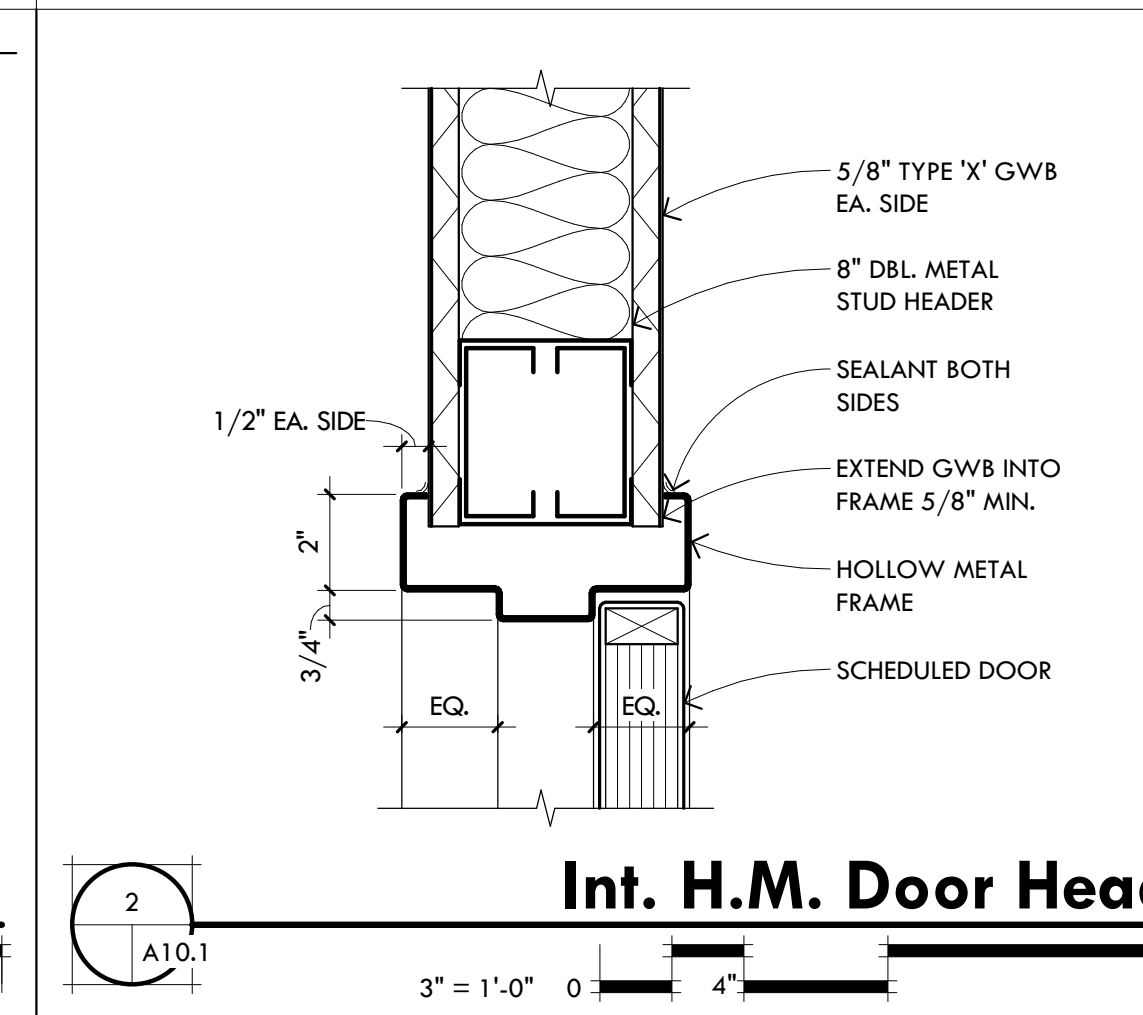
Ext. Hollow Mtl. Door Jamb



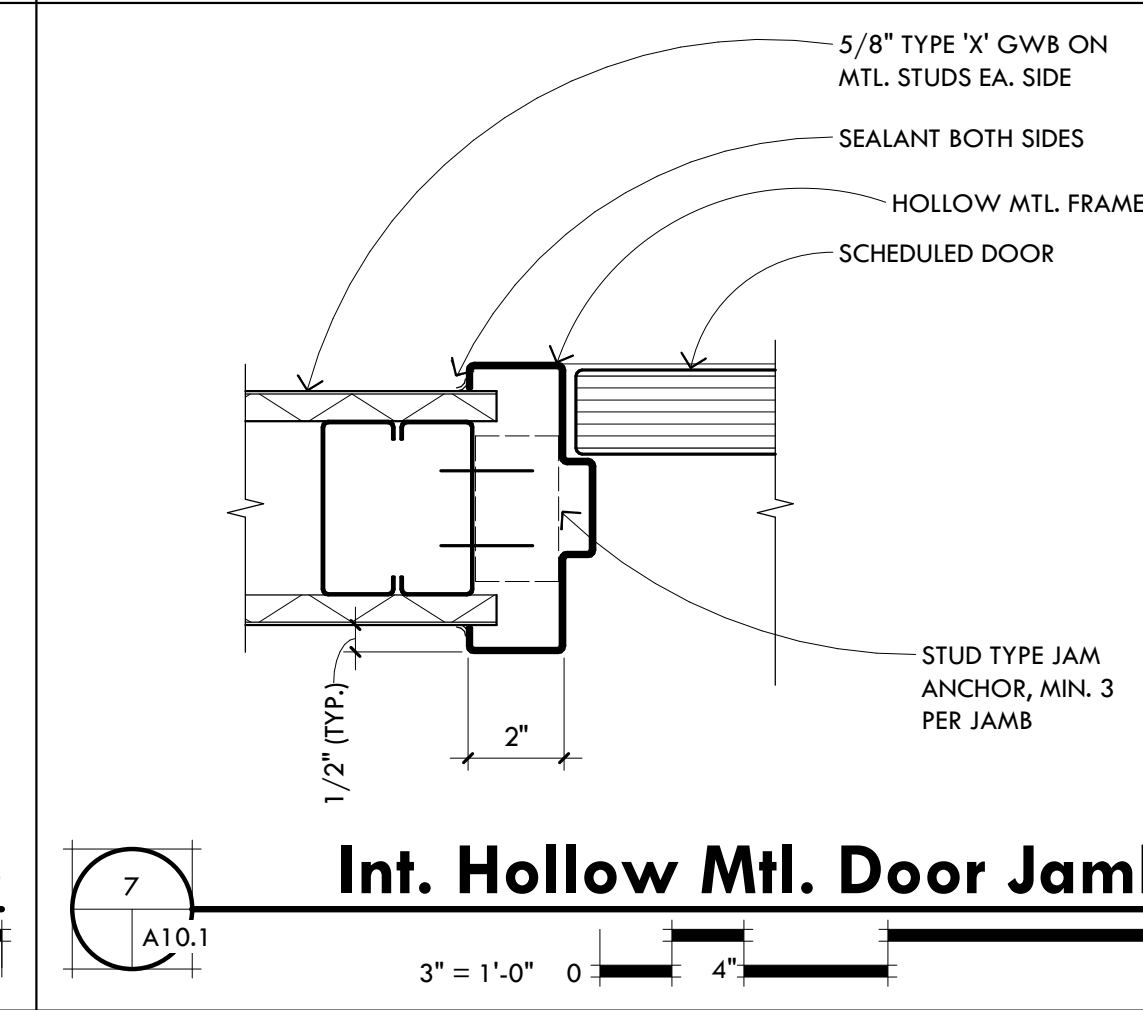
Hollow Metal Window Sill



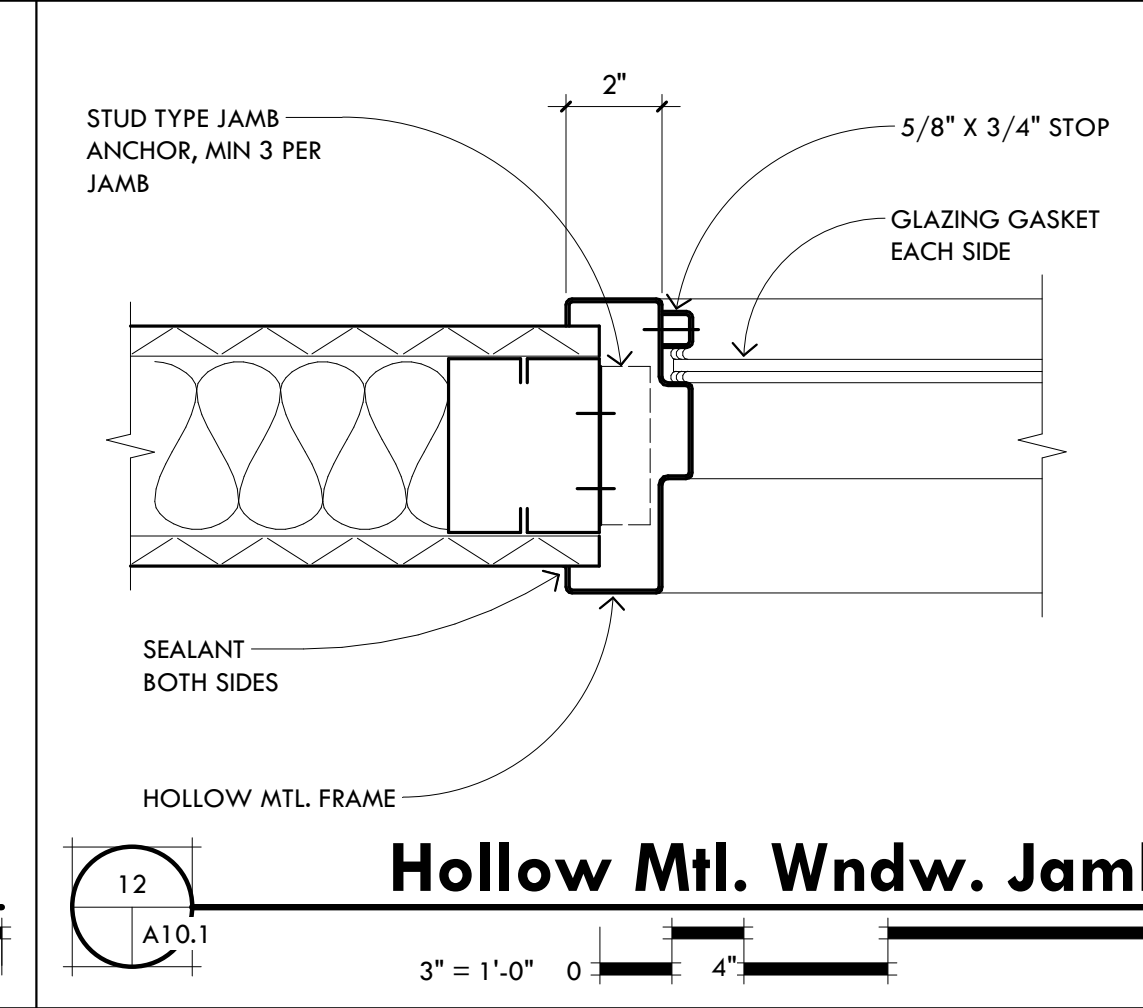
Flooring Transition



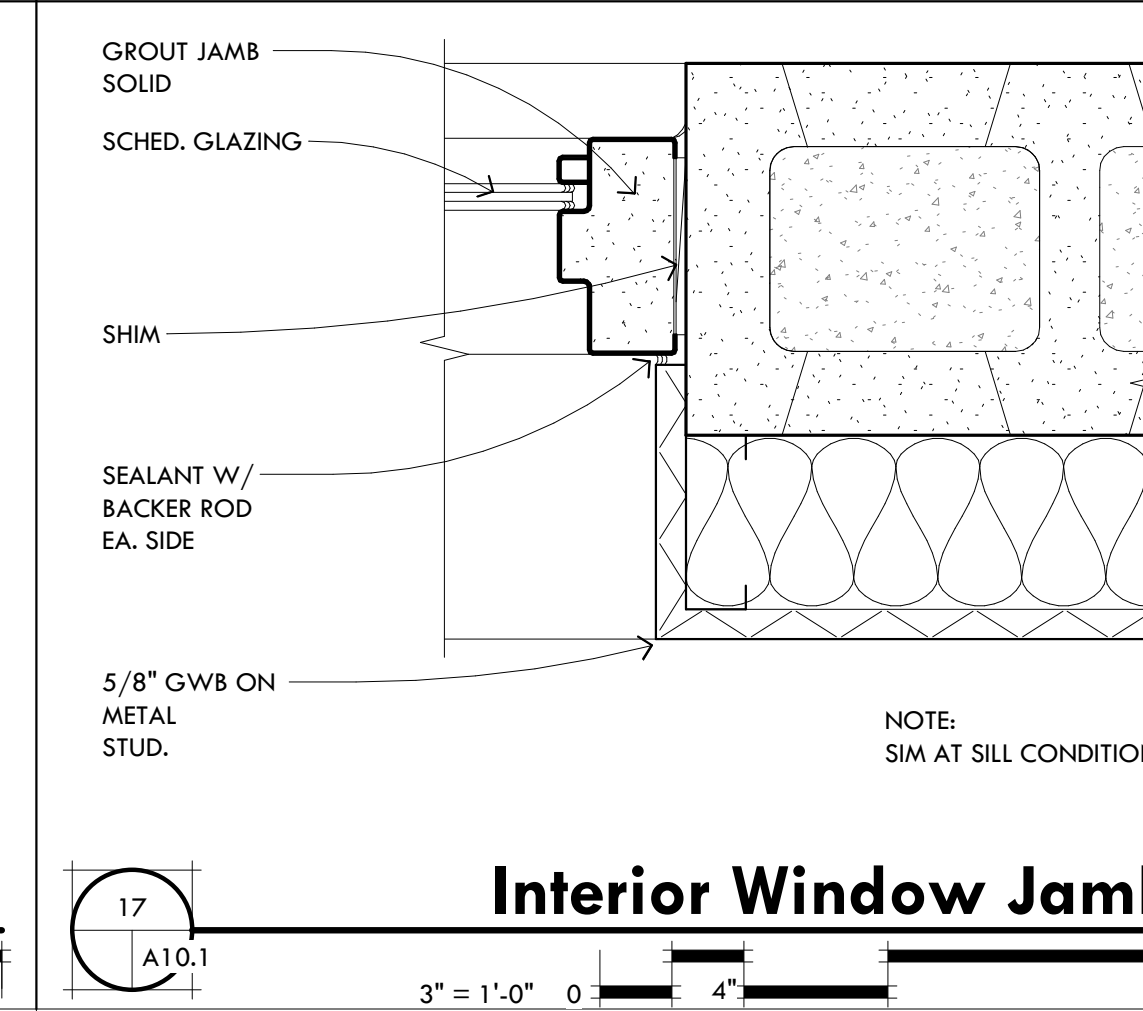
Int. H.M. Door Head



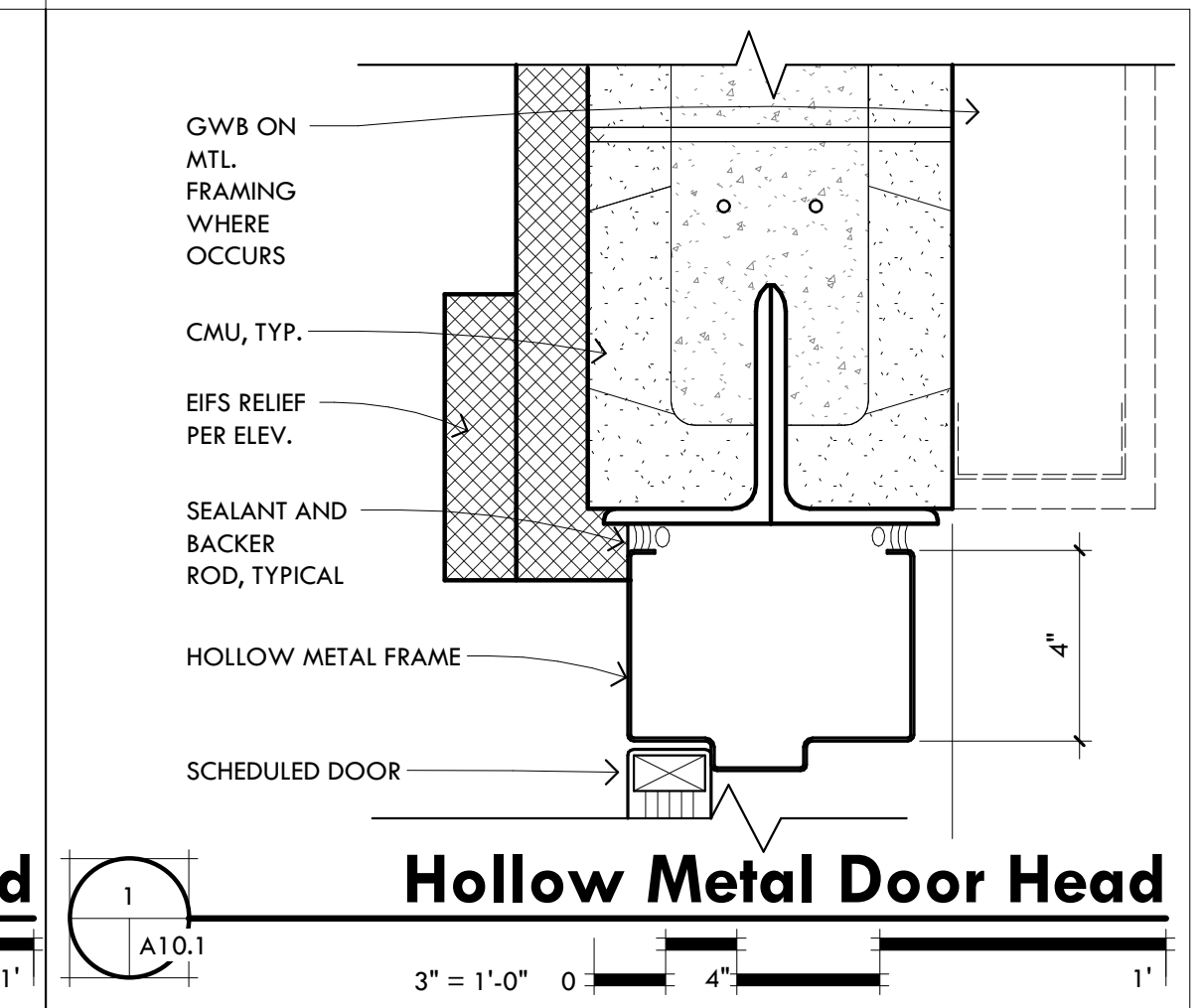
Int. Hollow Mtl. Door Jamb



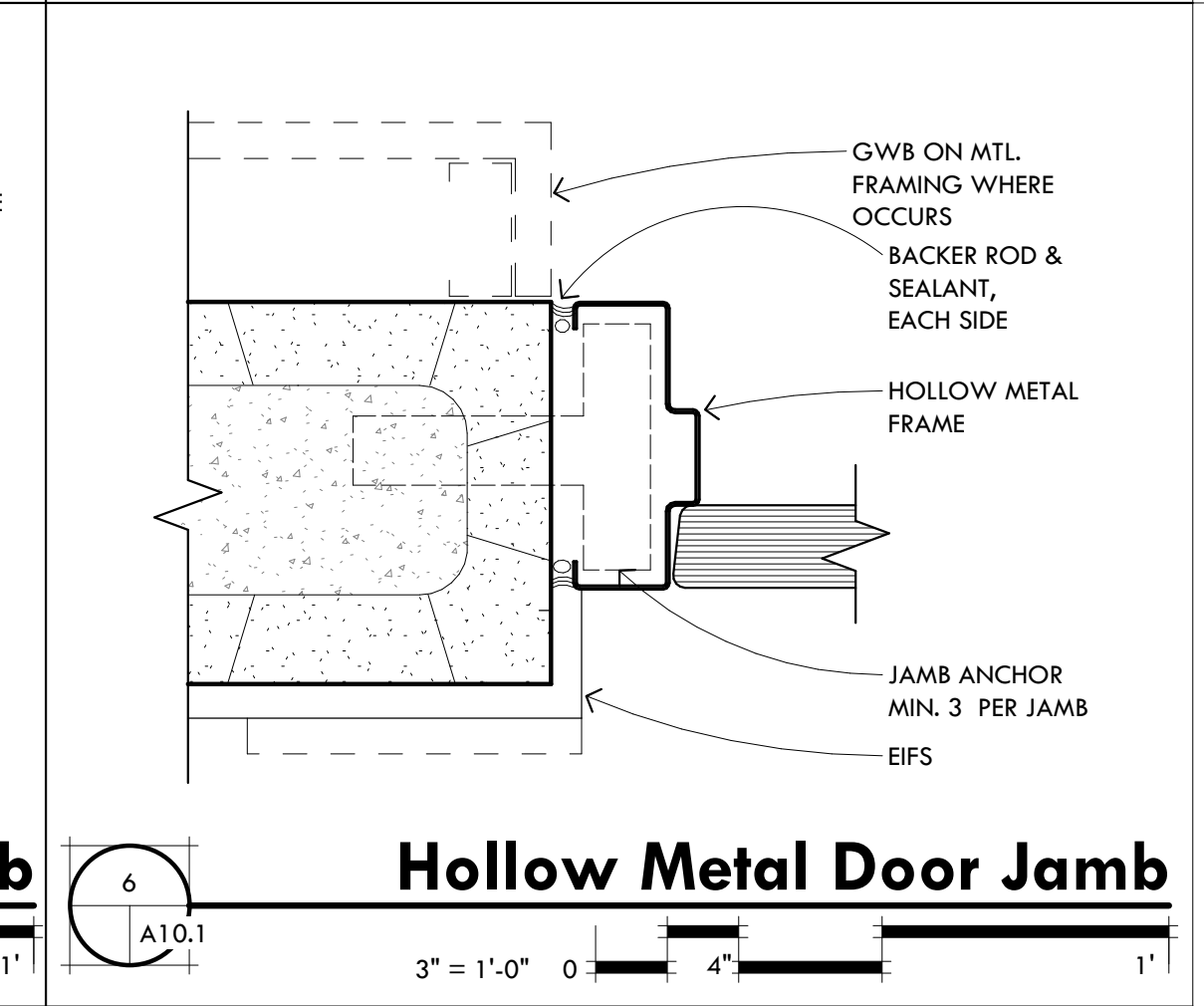
Hollow Mtl. Wndw. Jamb



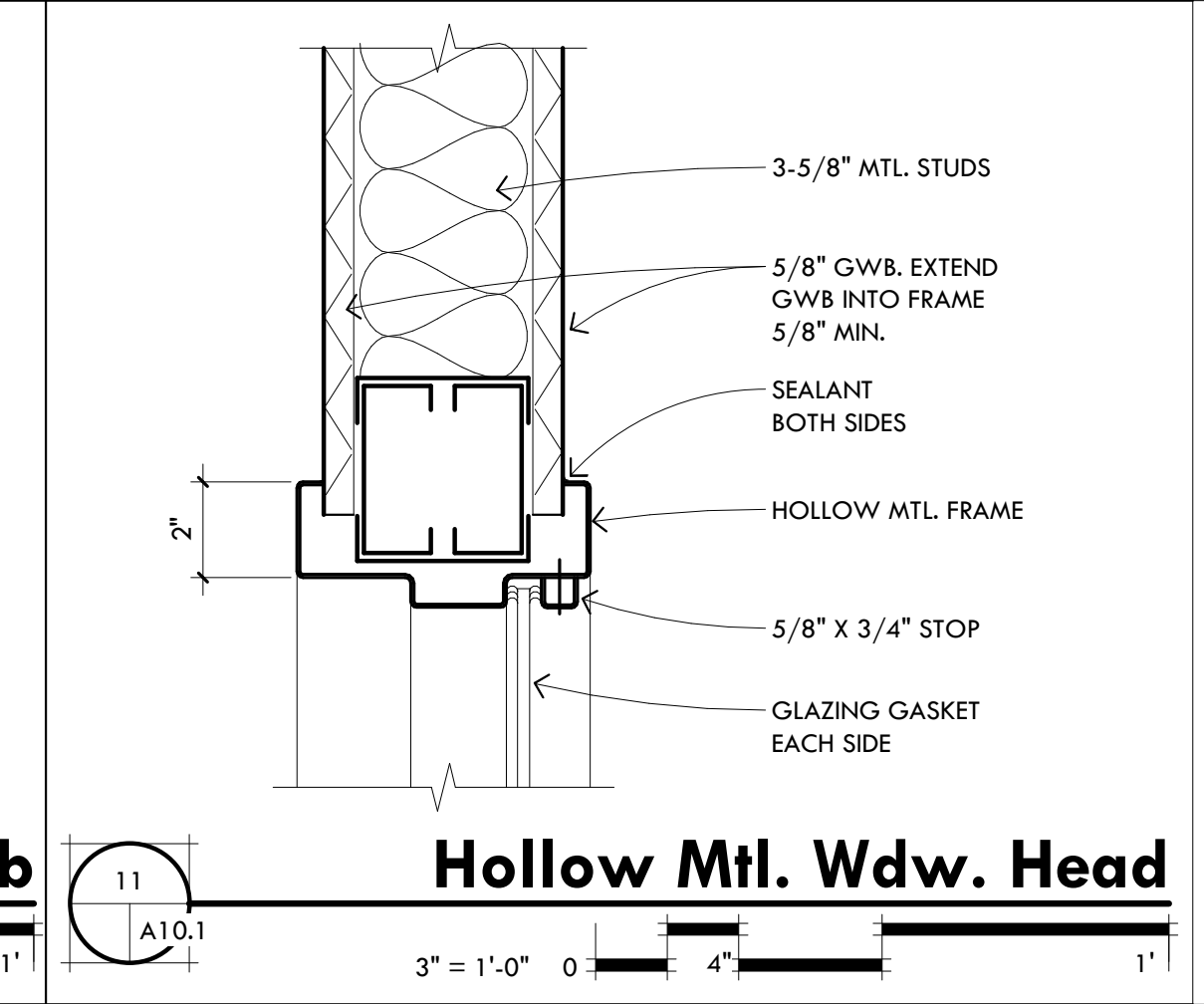
Interior Window Jamb



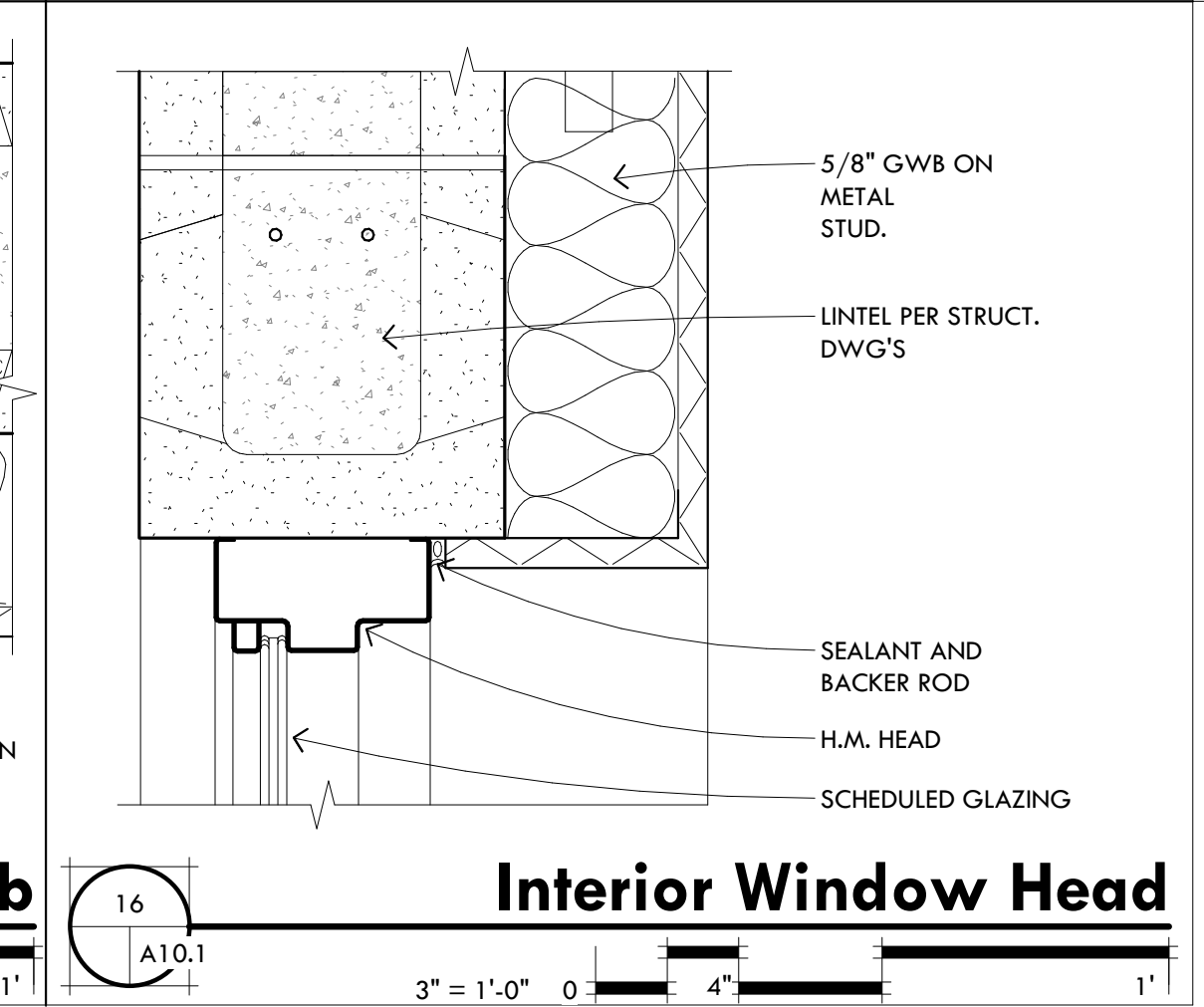
Hollow Metal Door Head



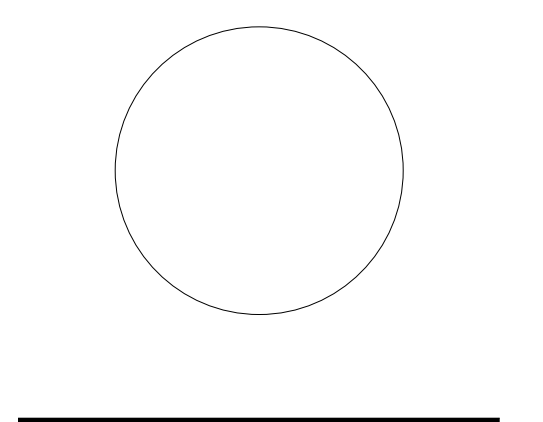
Hollow Metal Door Jamb



Hollow Mtl. Wdw. Head



Interior Window Head



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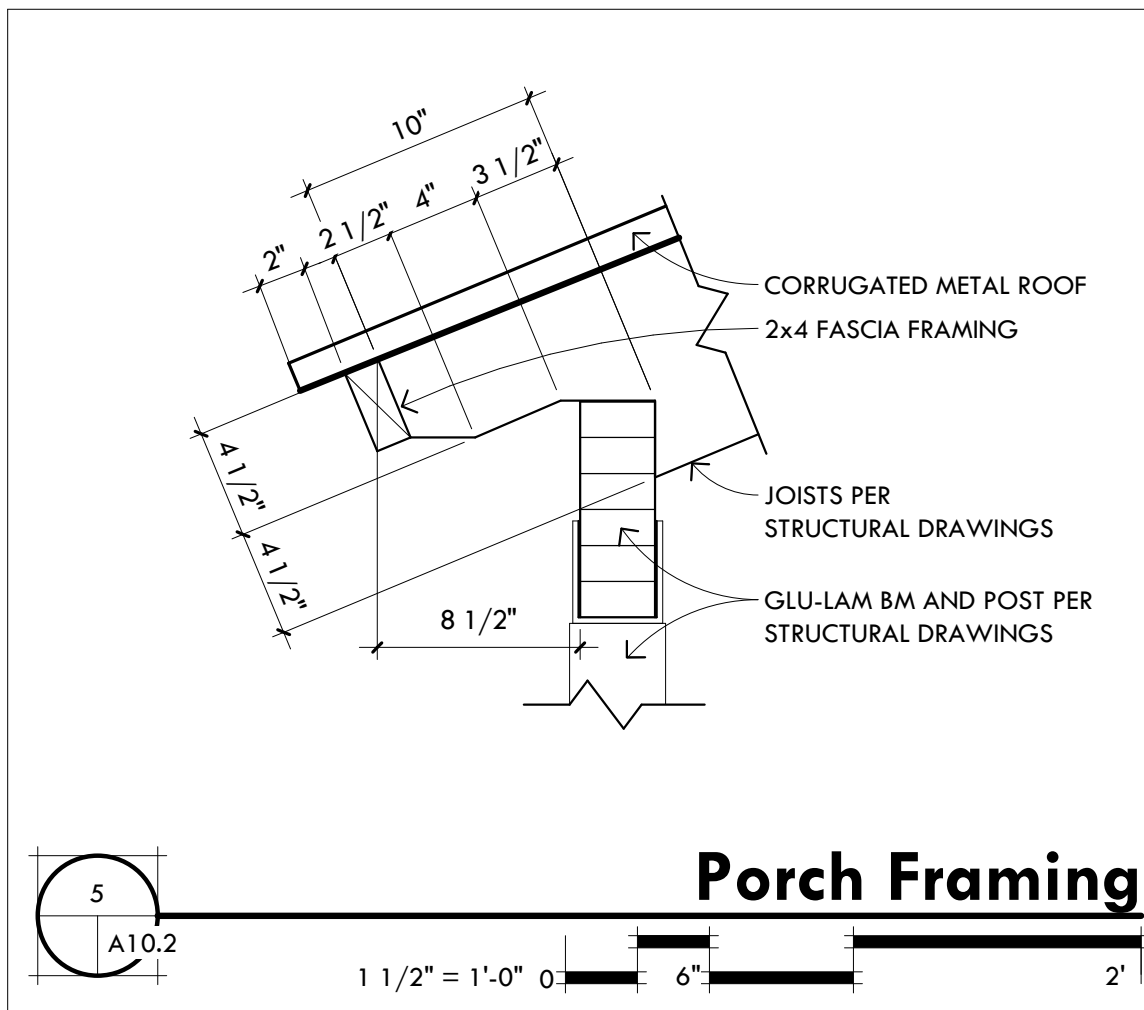
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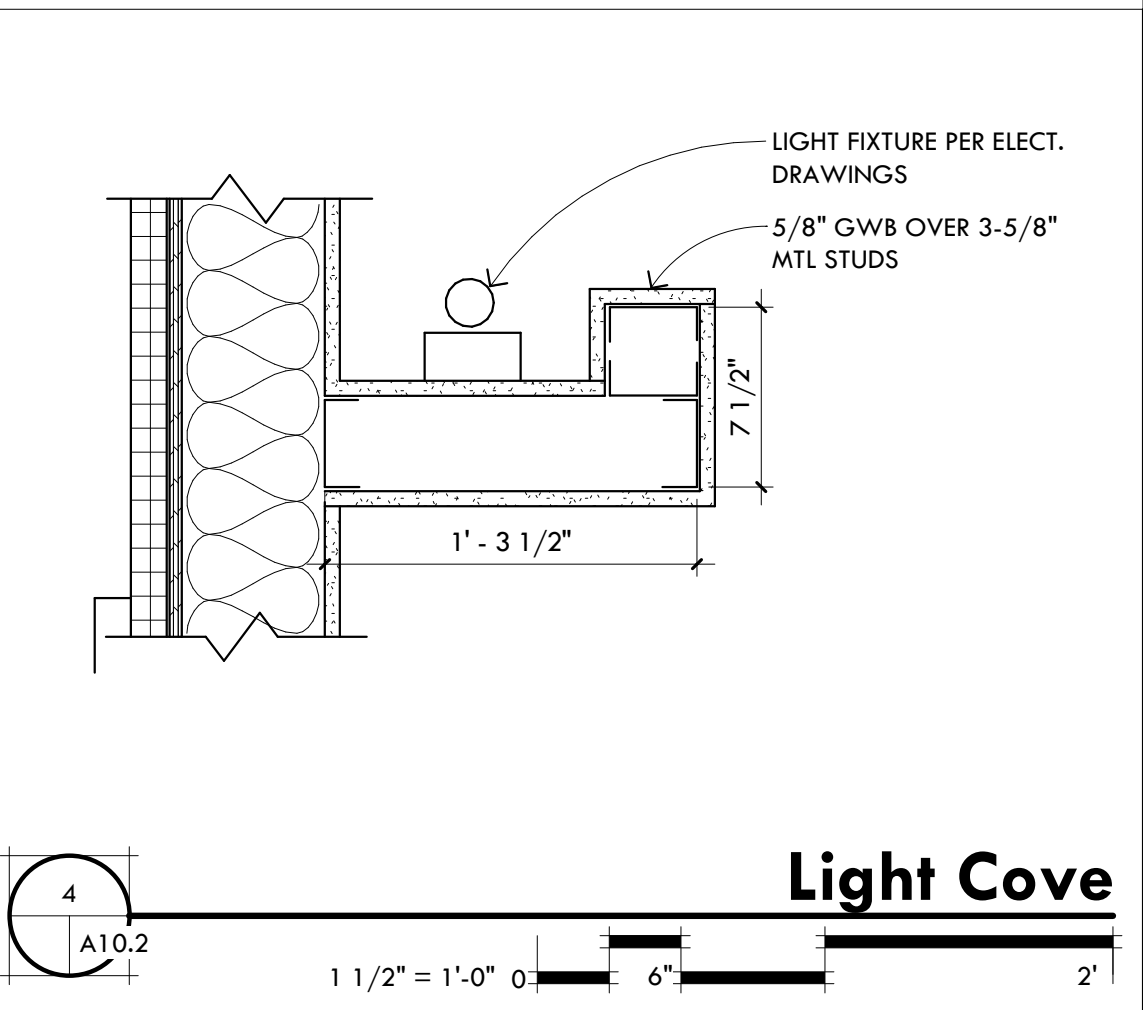
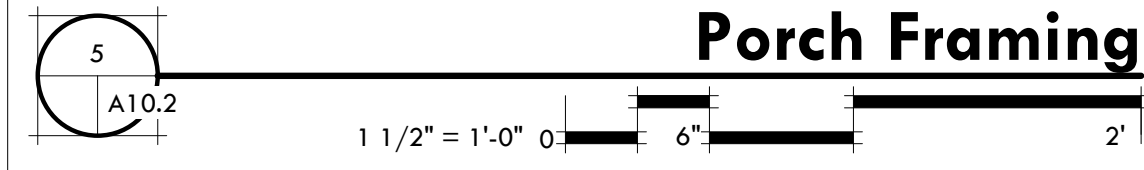
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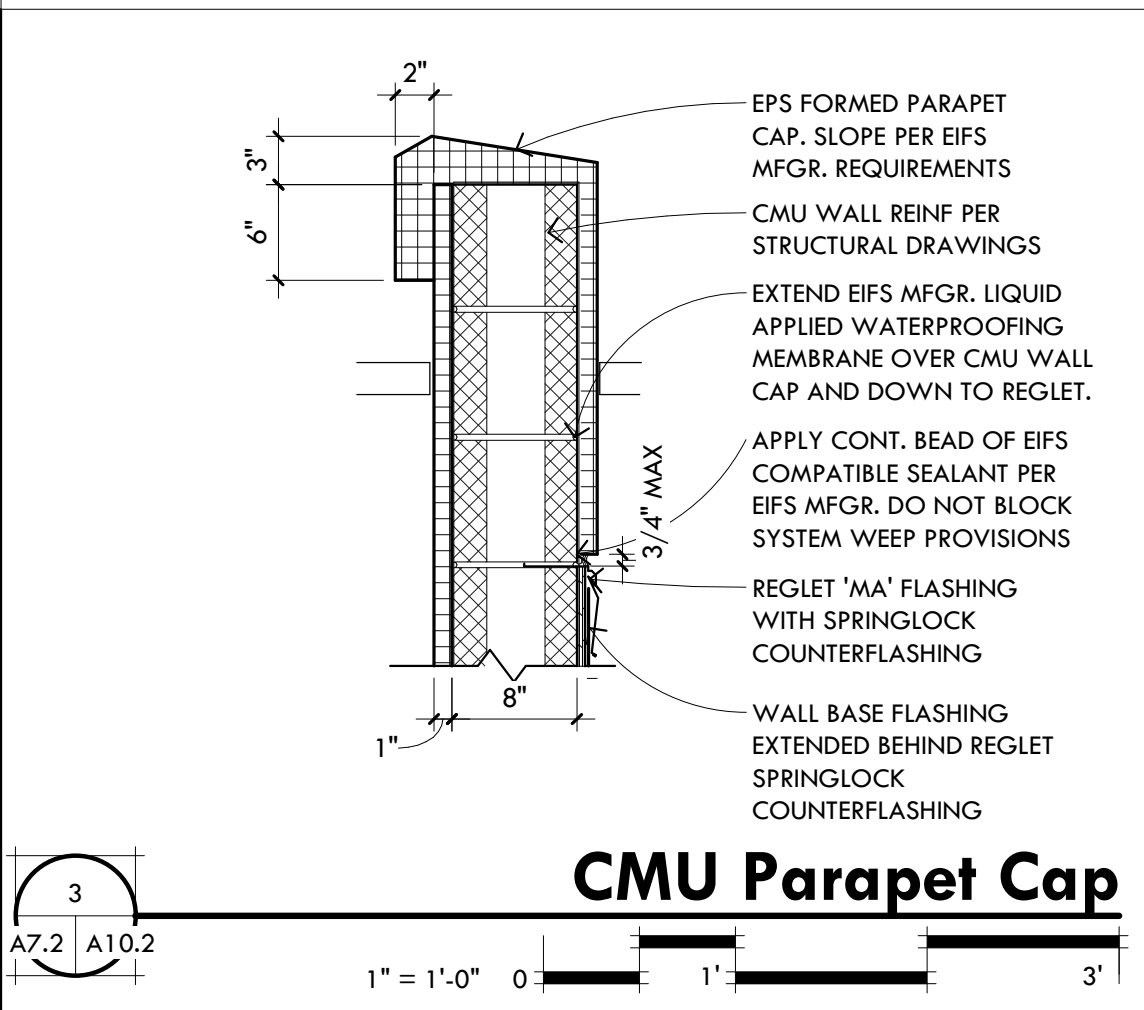
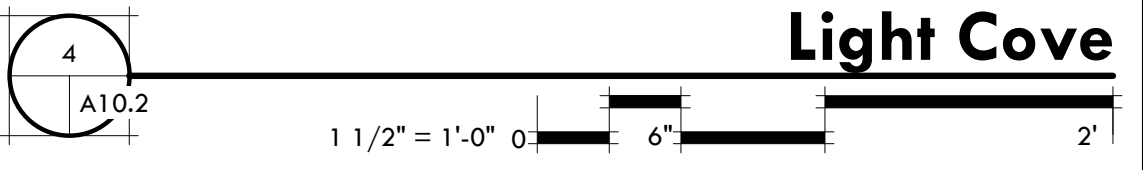
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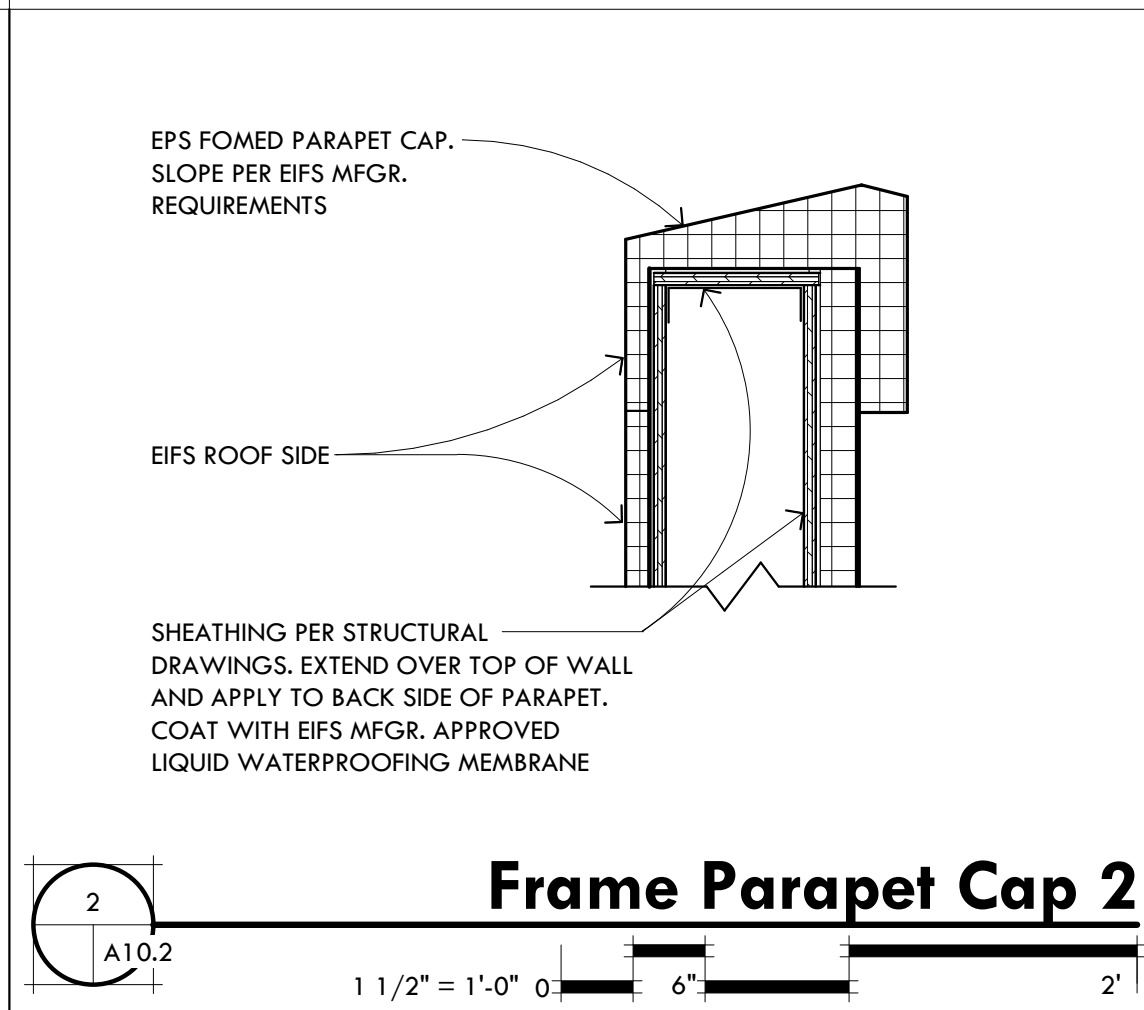
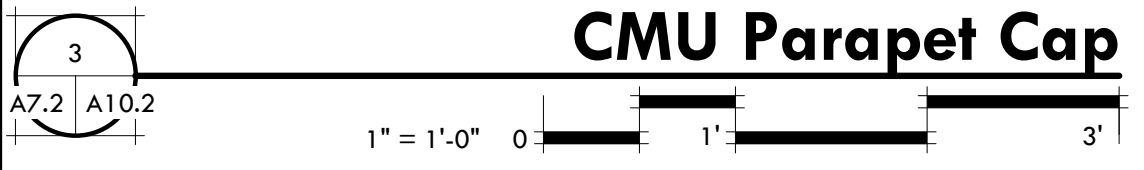
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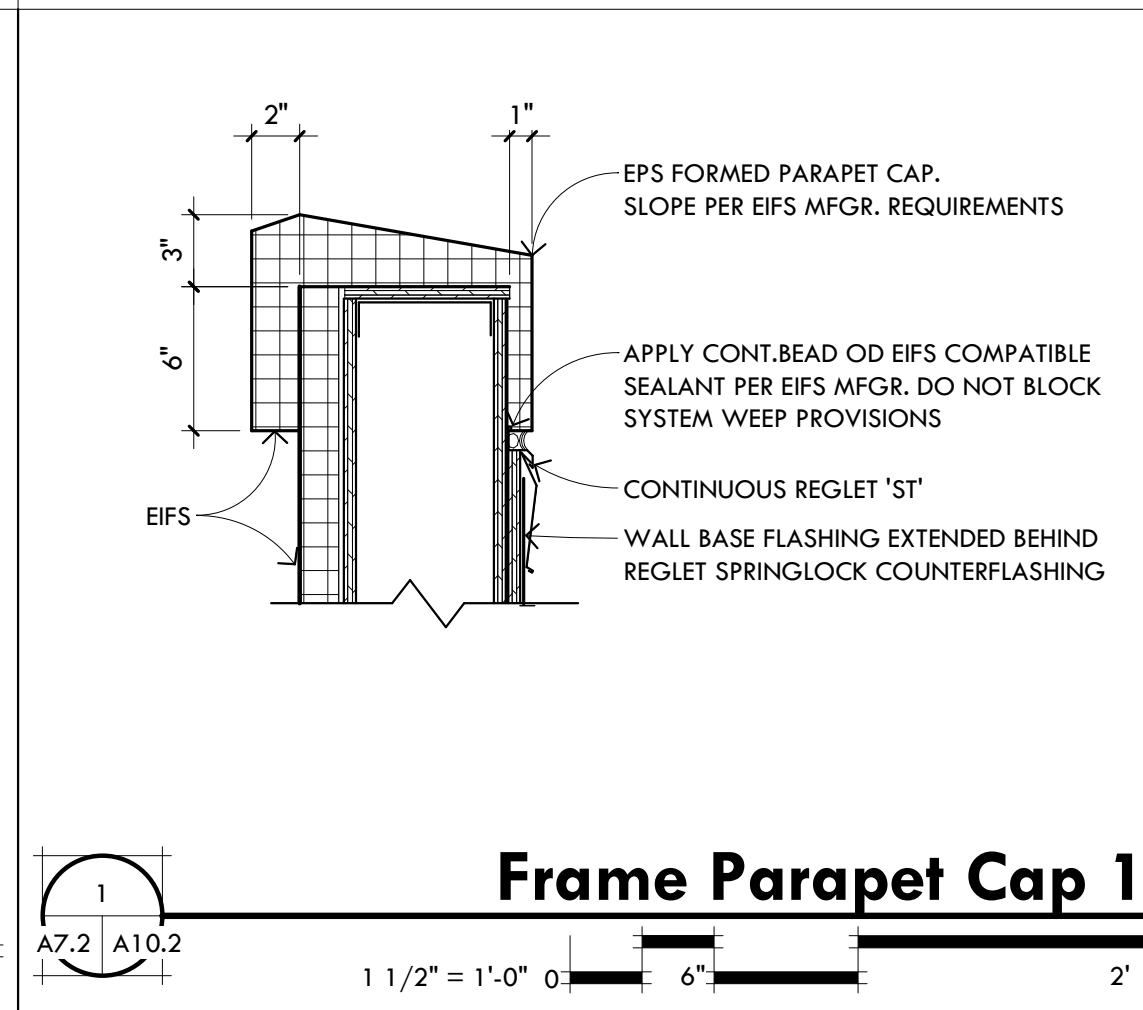
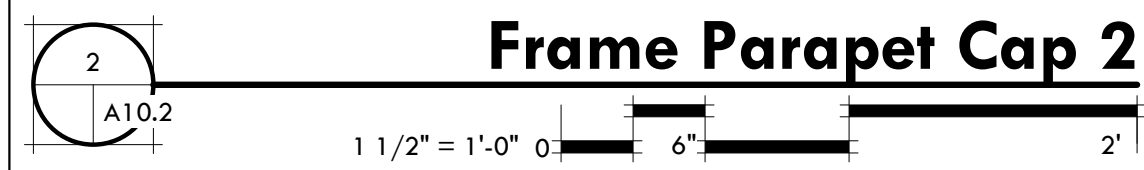
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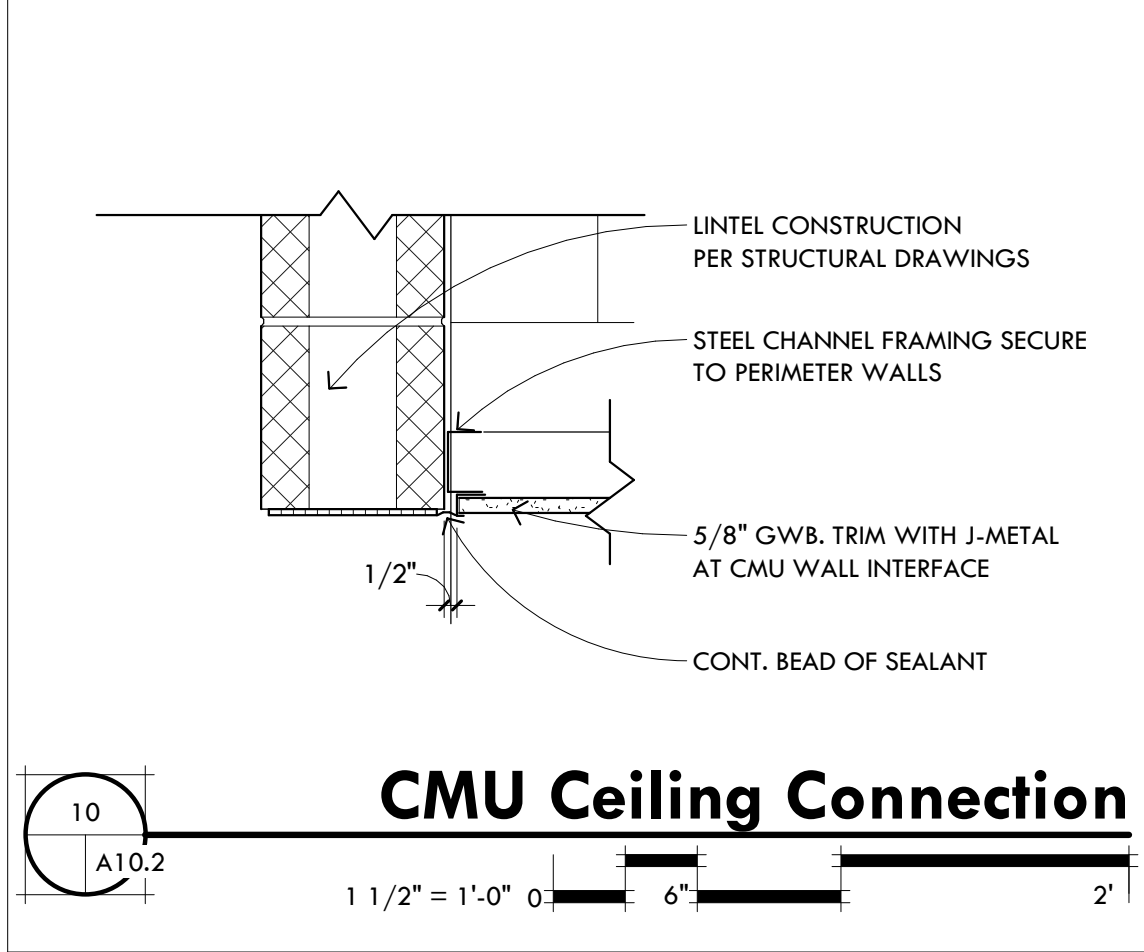
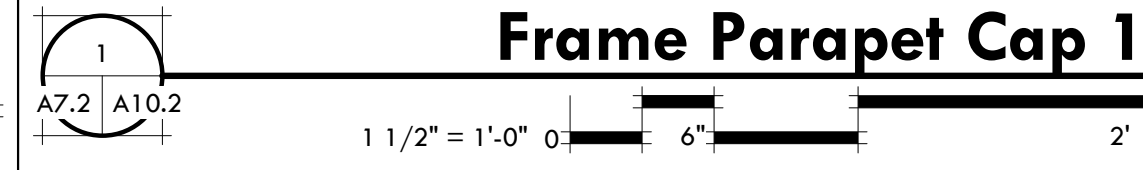
CMU Parapet Cap



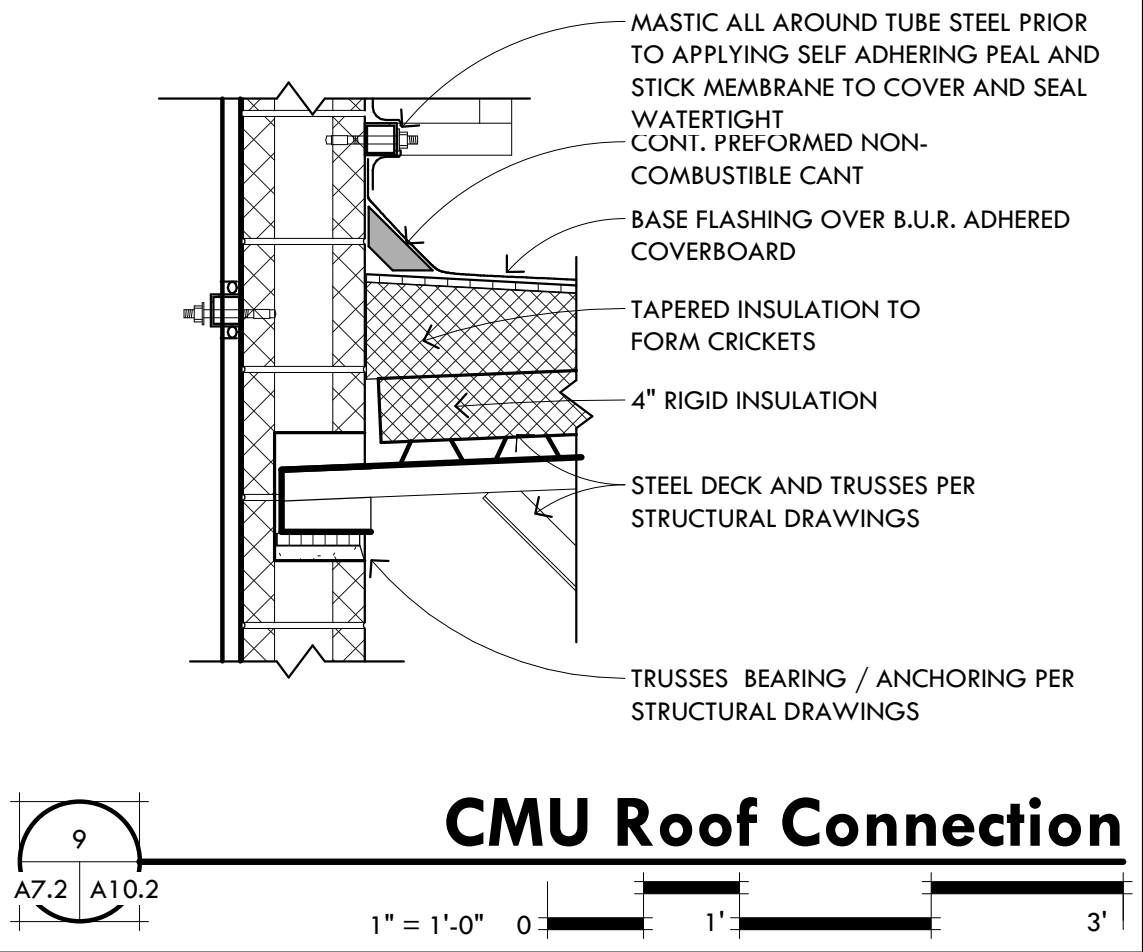
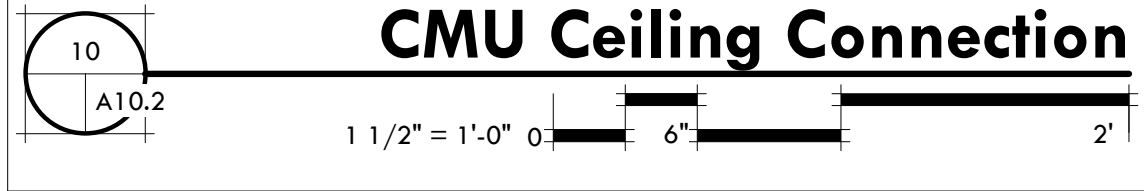
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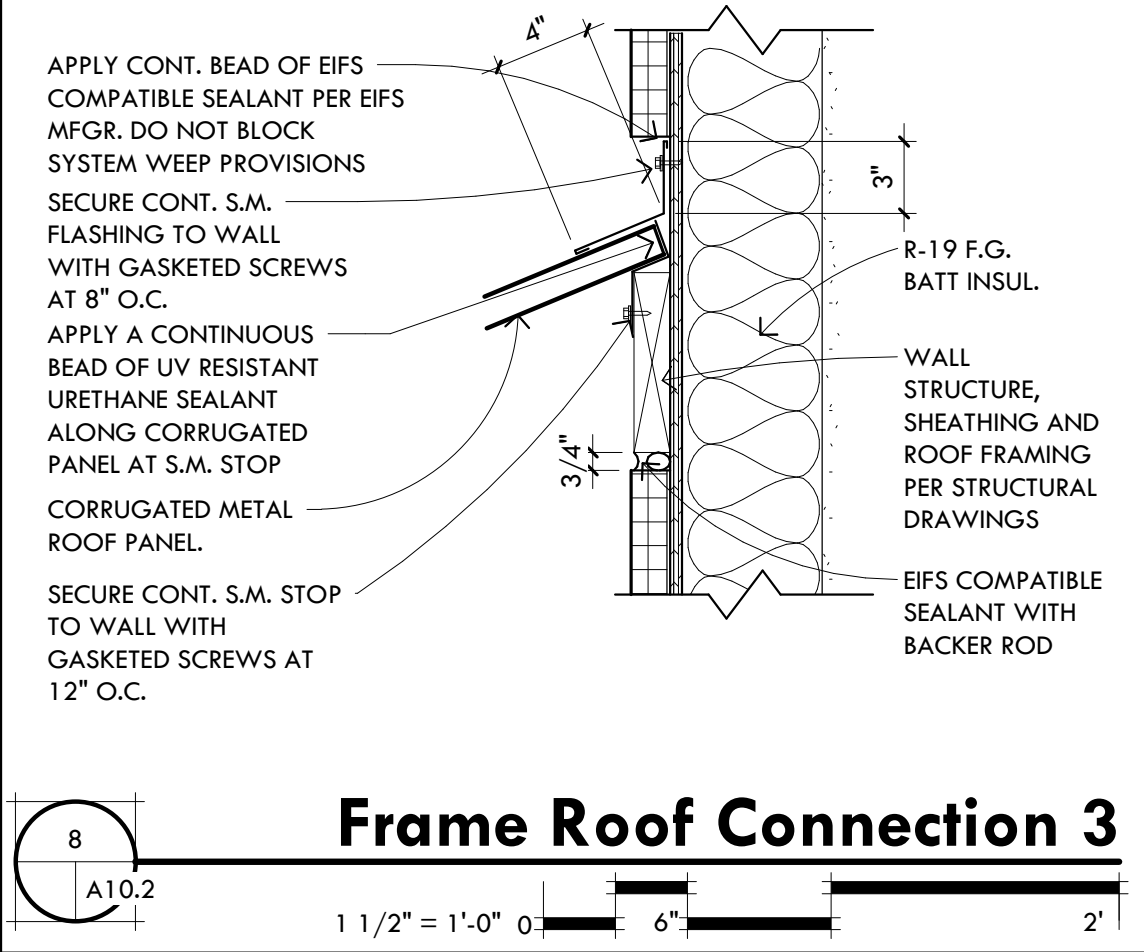
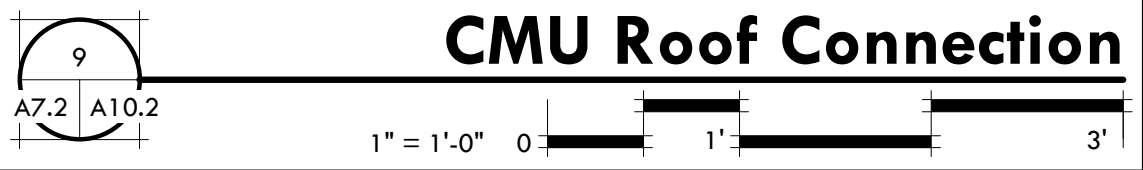
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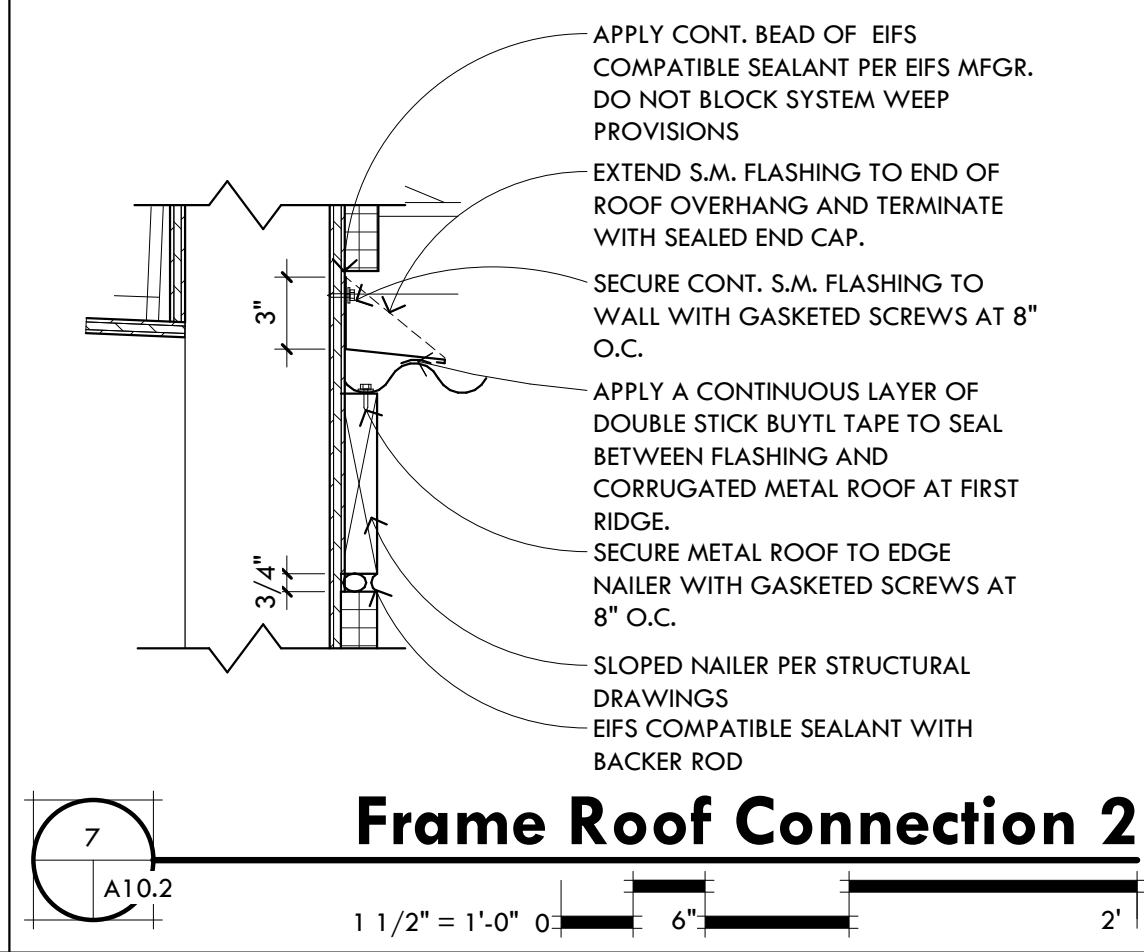
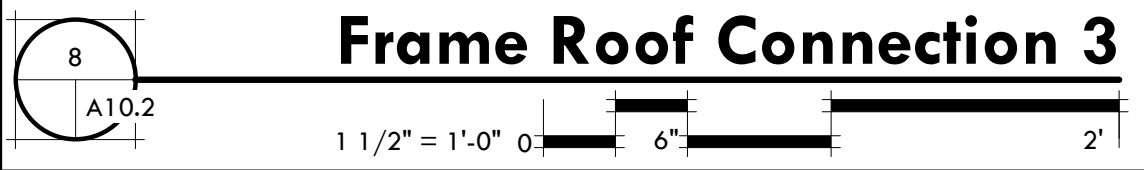
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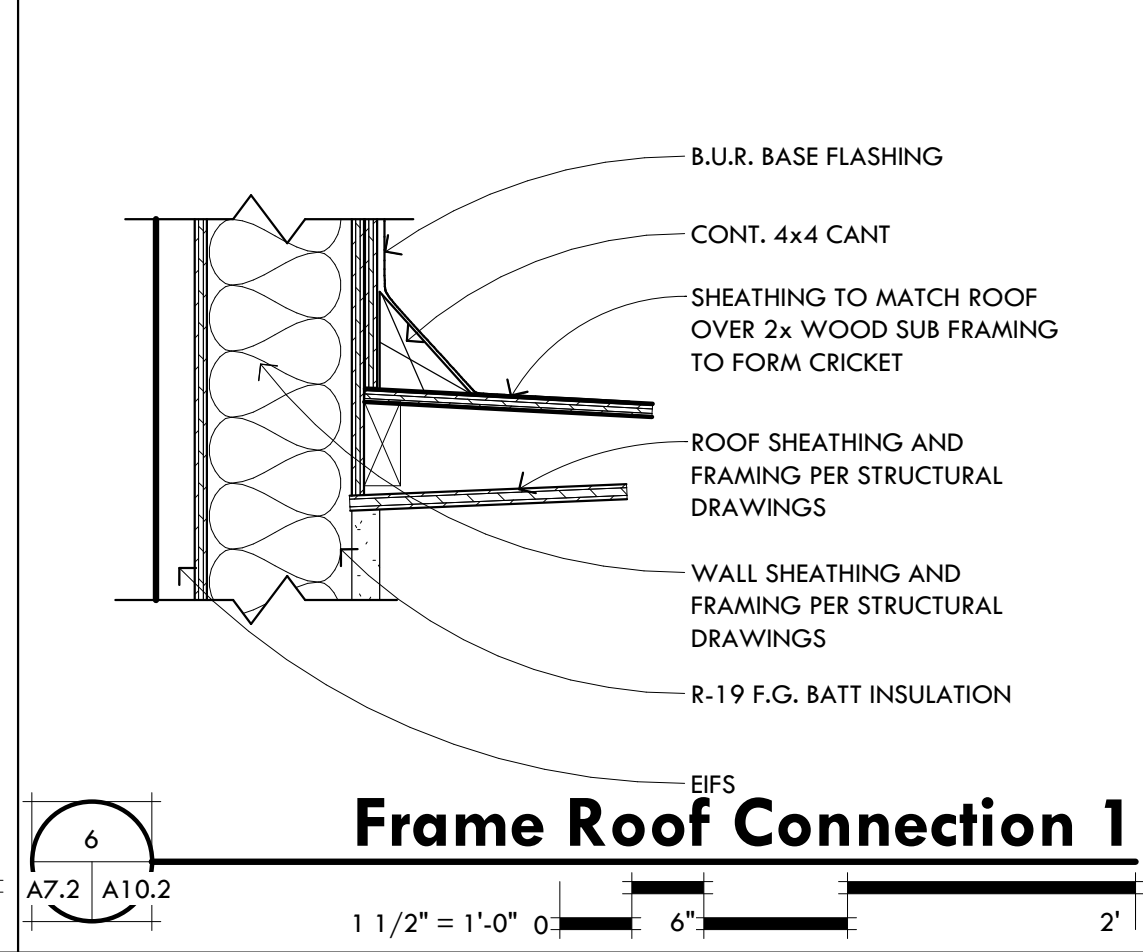
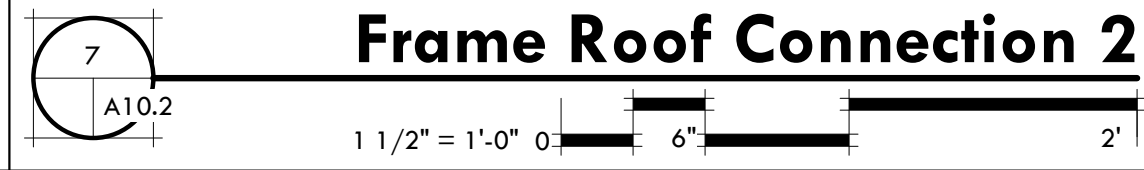
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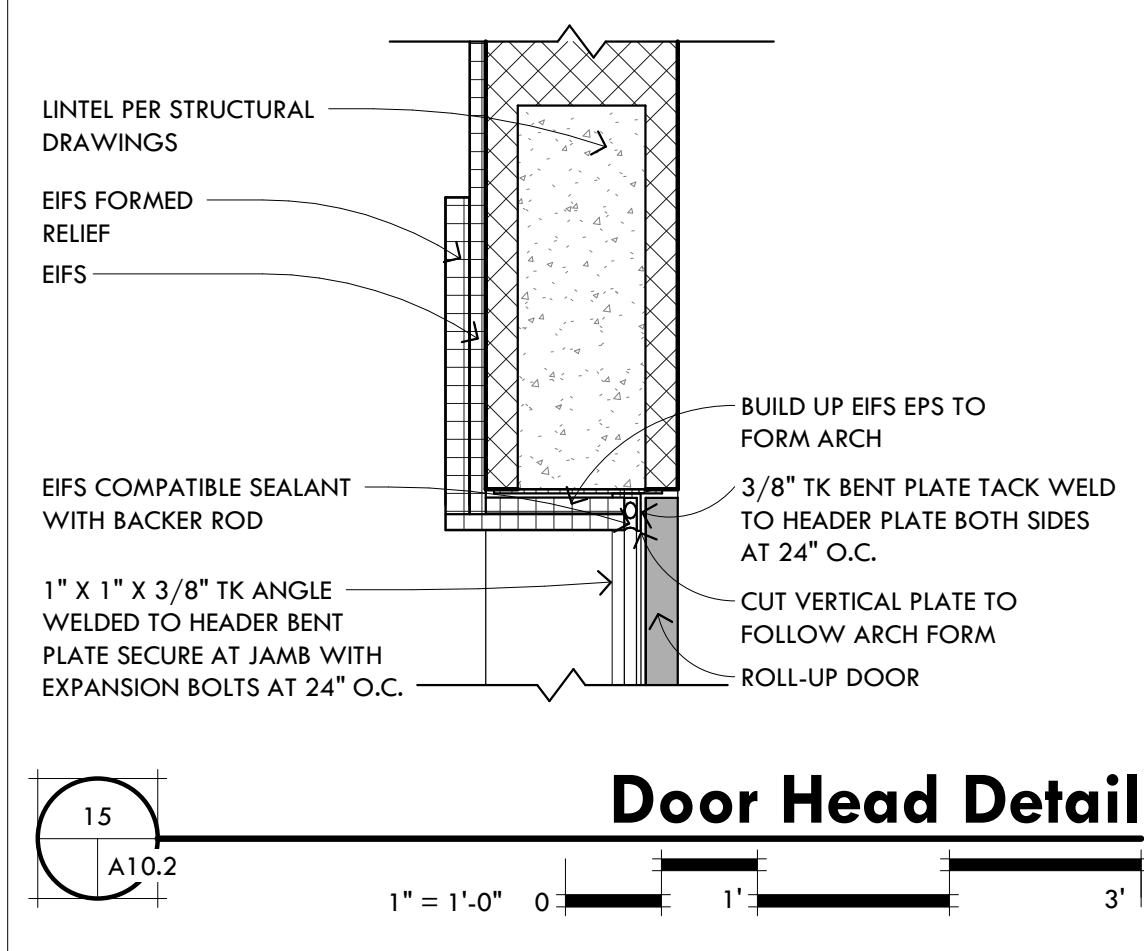
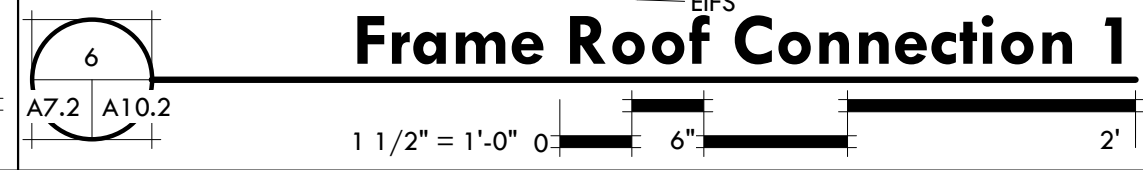
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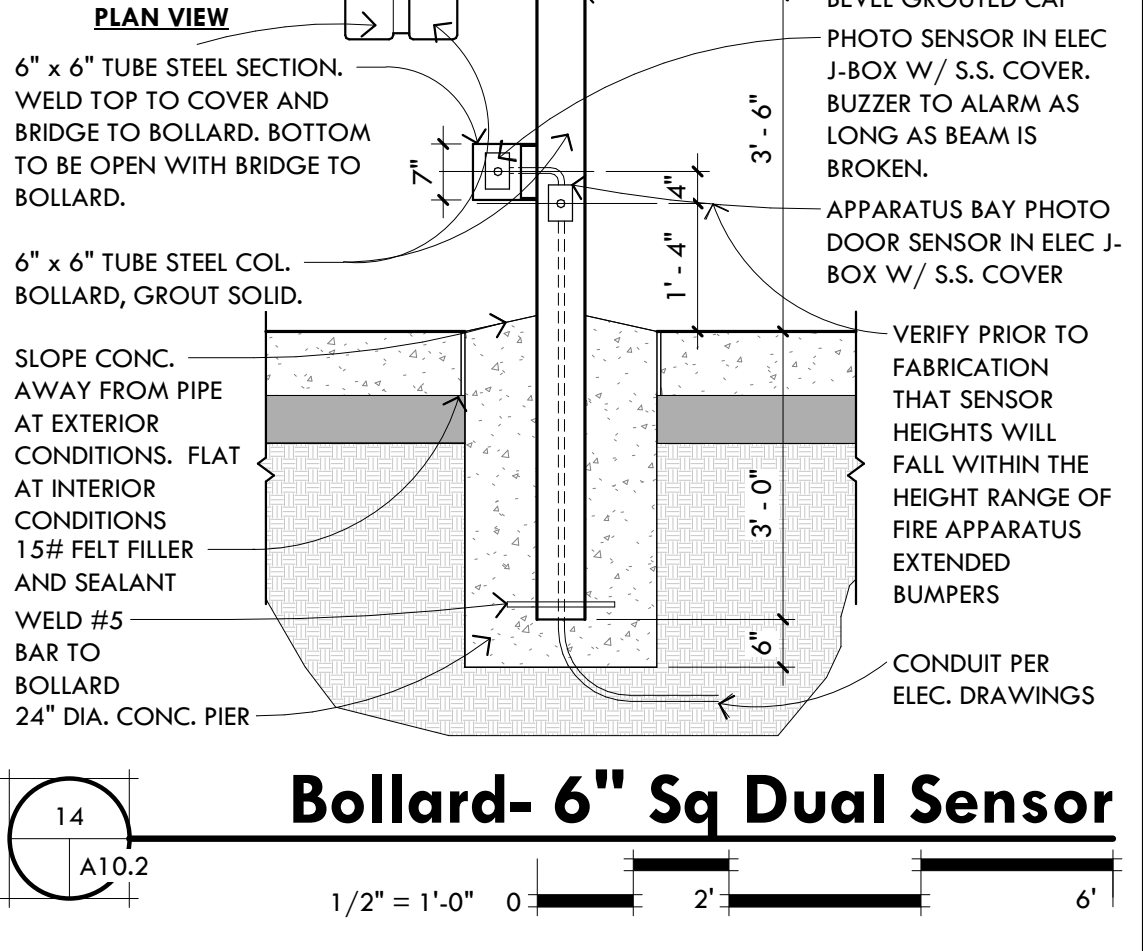
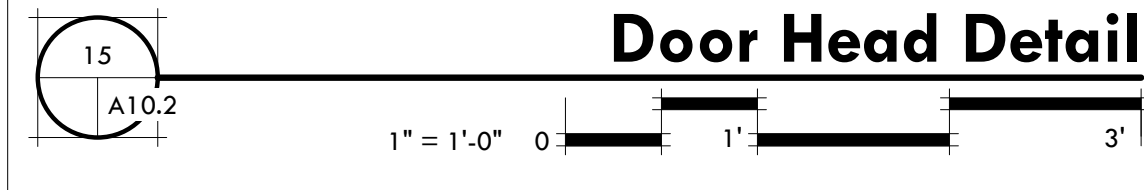
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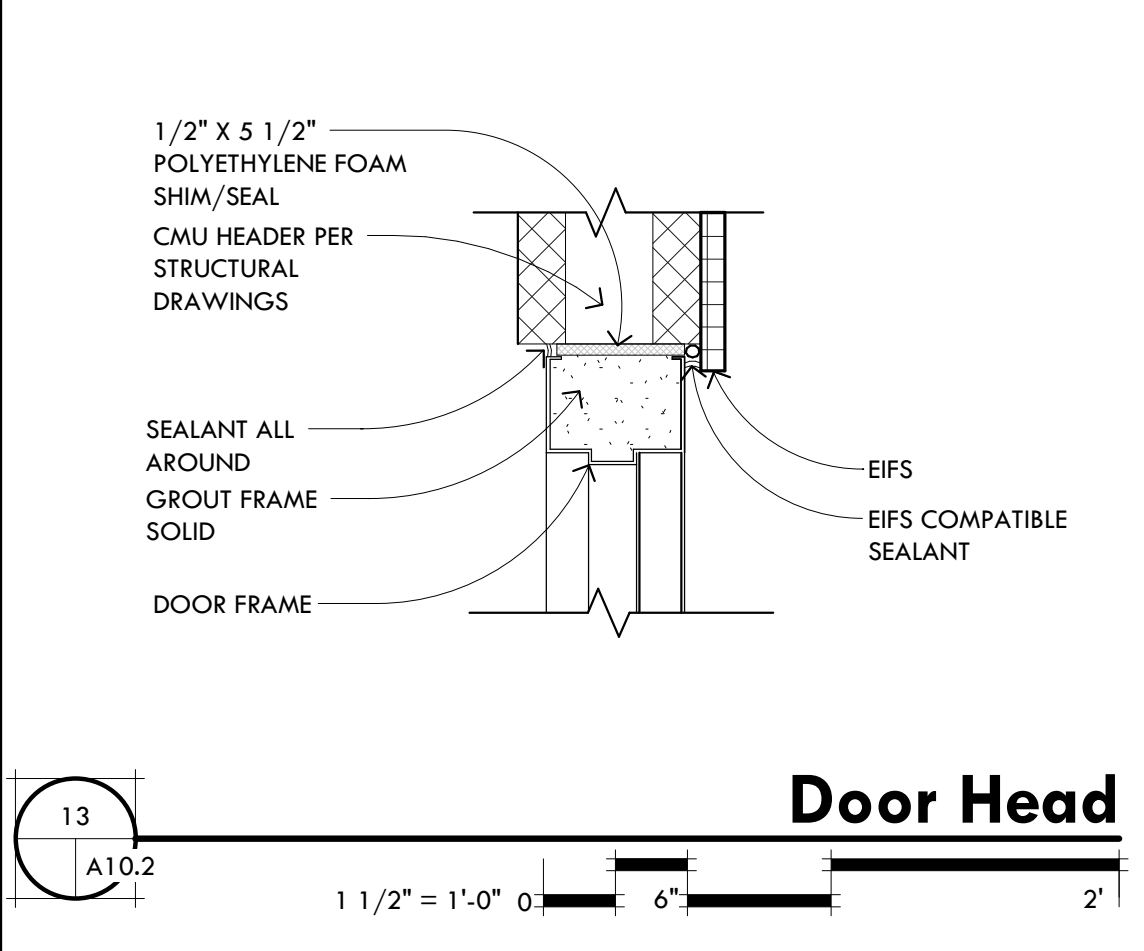
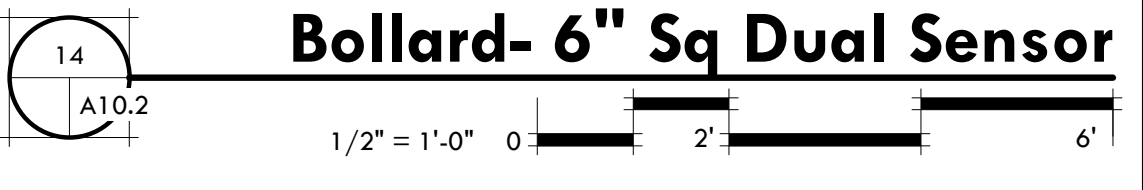
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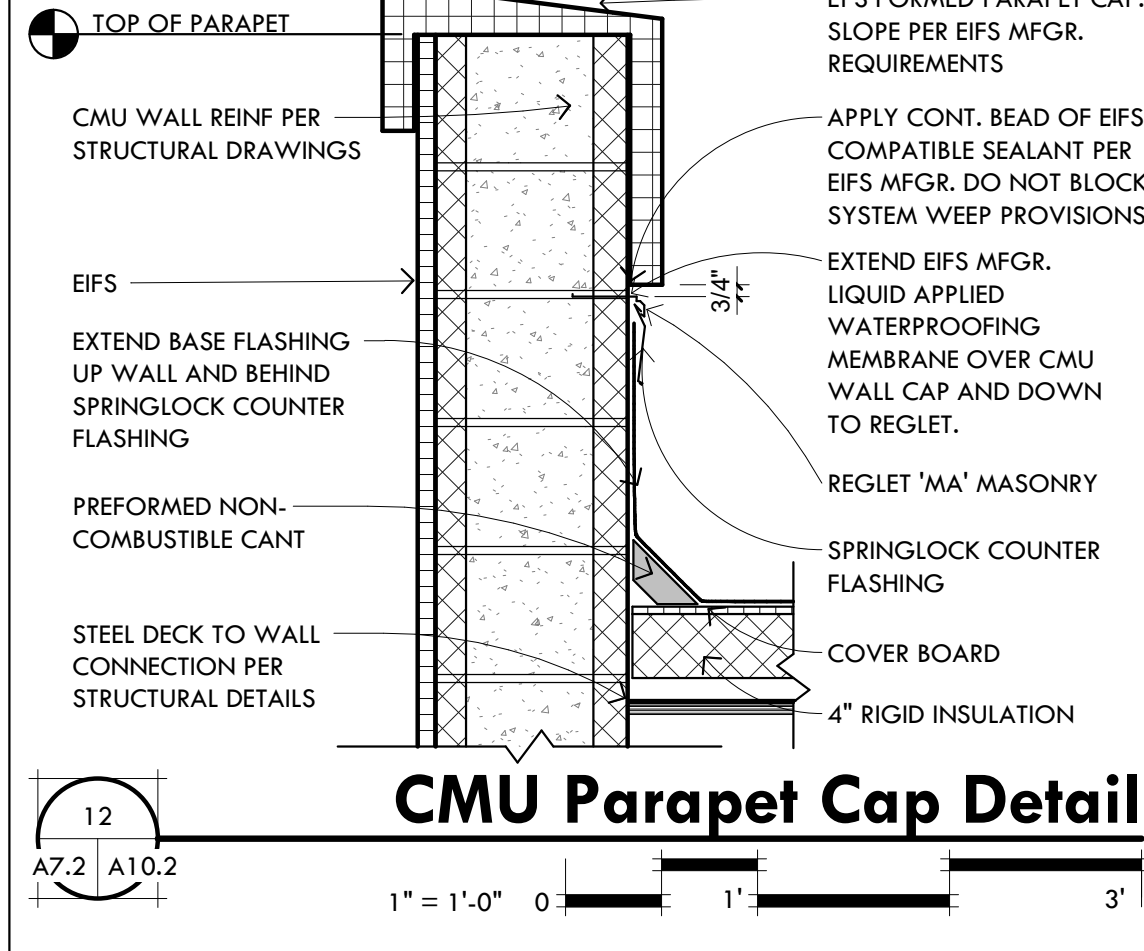
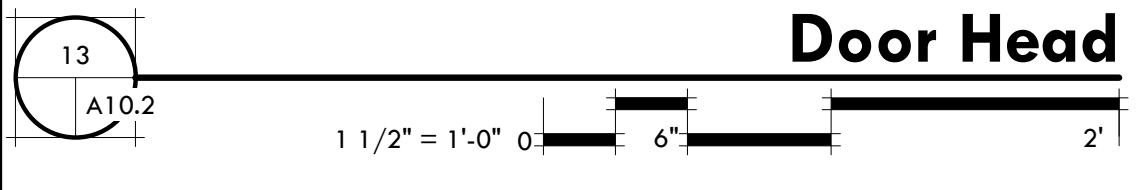
Door Head Detail



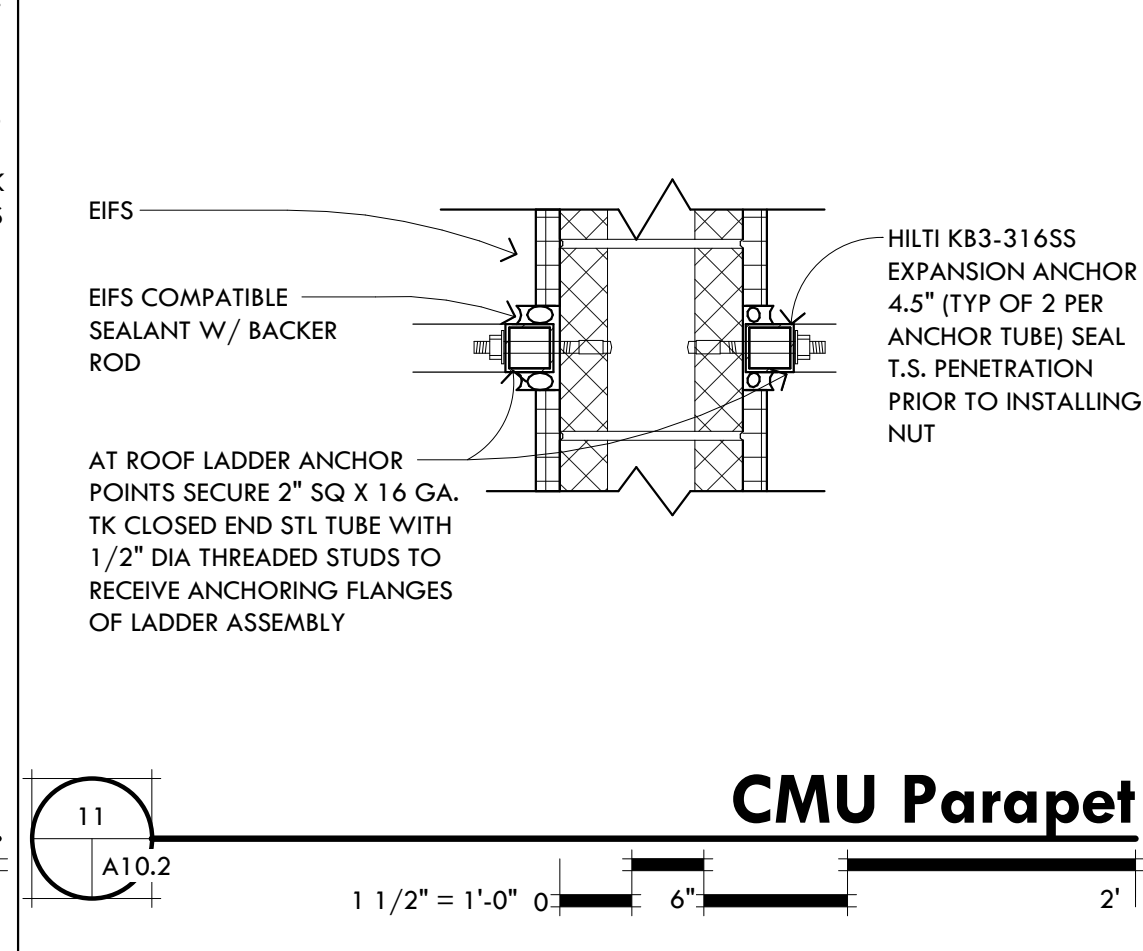
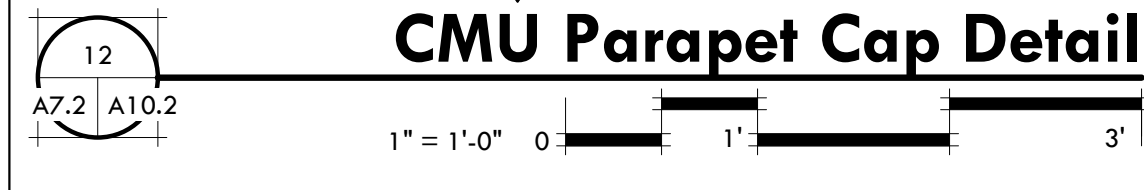
Bollard-6" Sq Dual Sensor



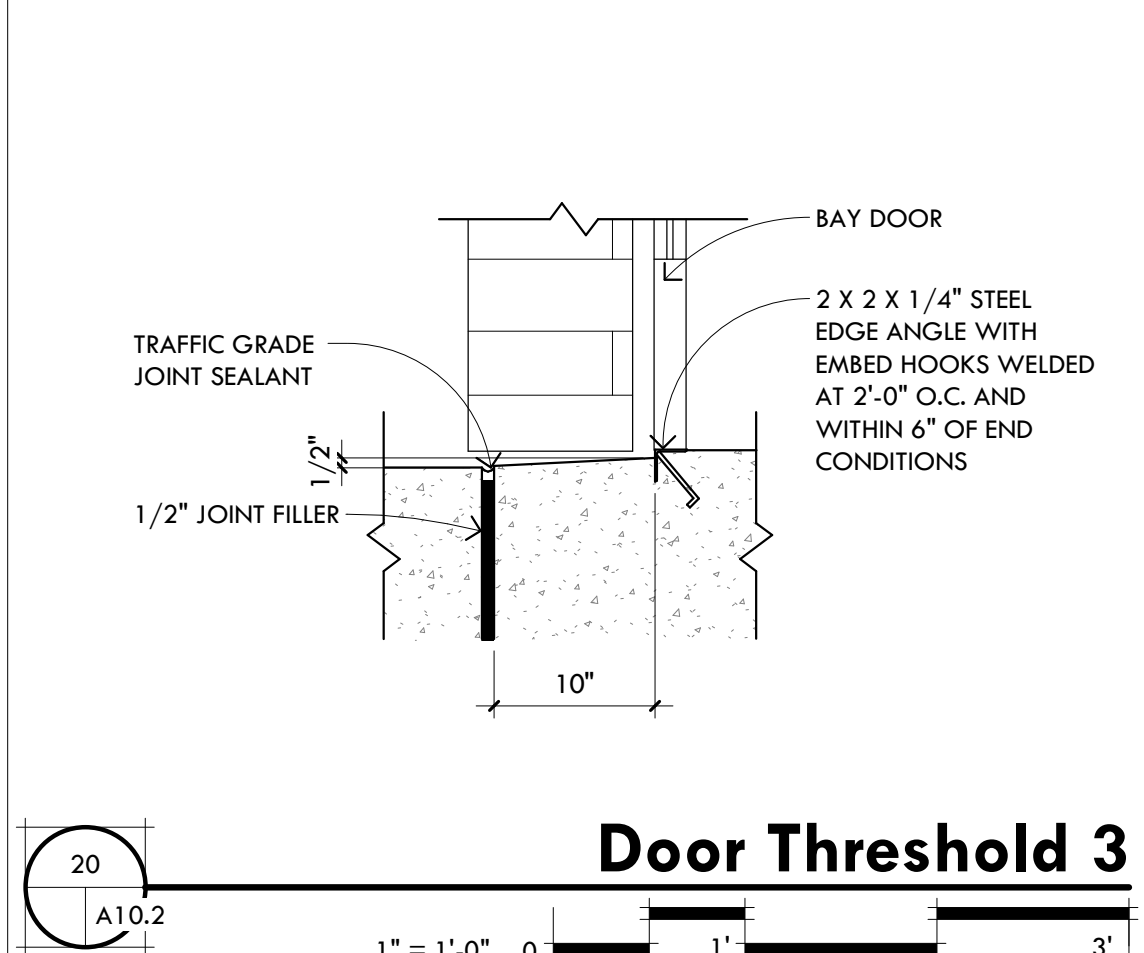
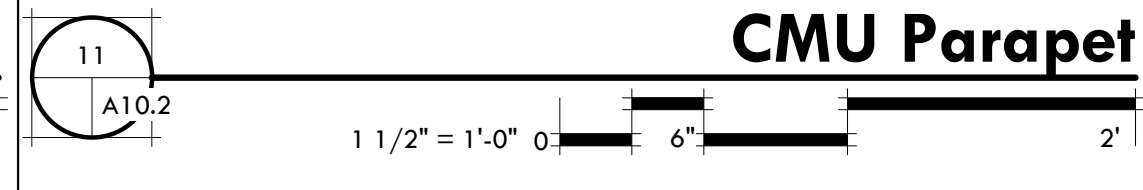
Door Head



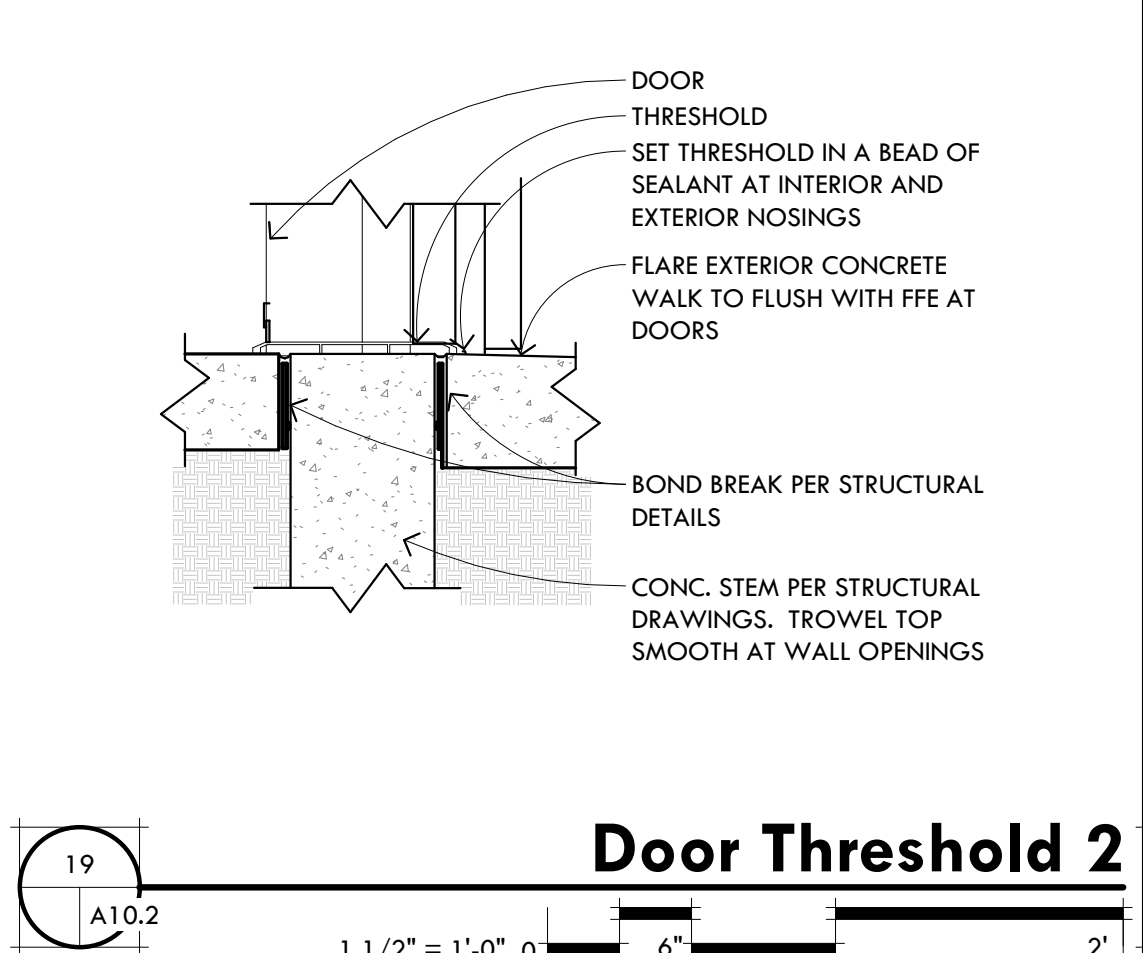
CMU Parapet Cap Detail



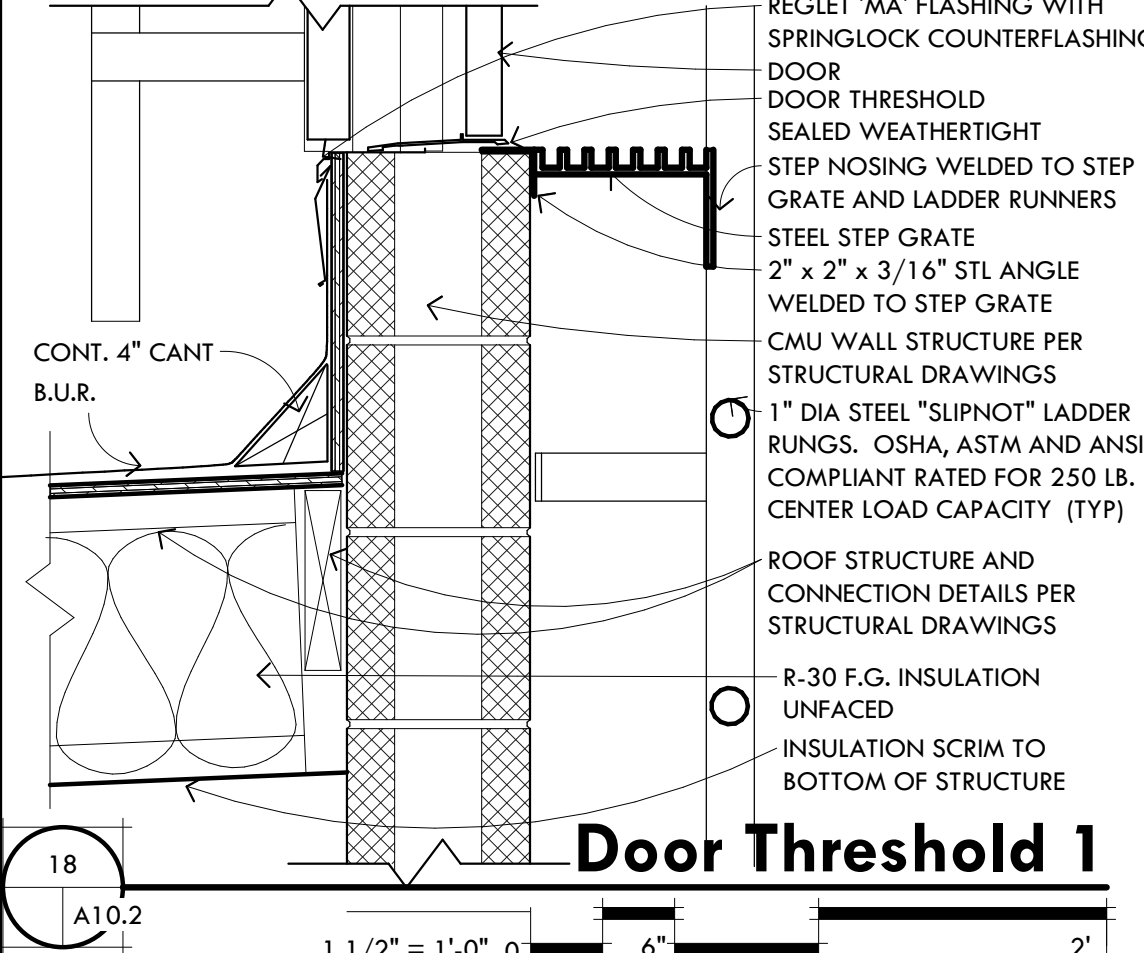
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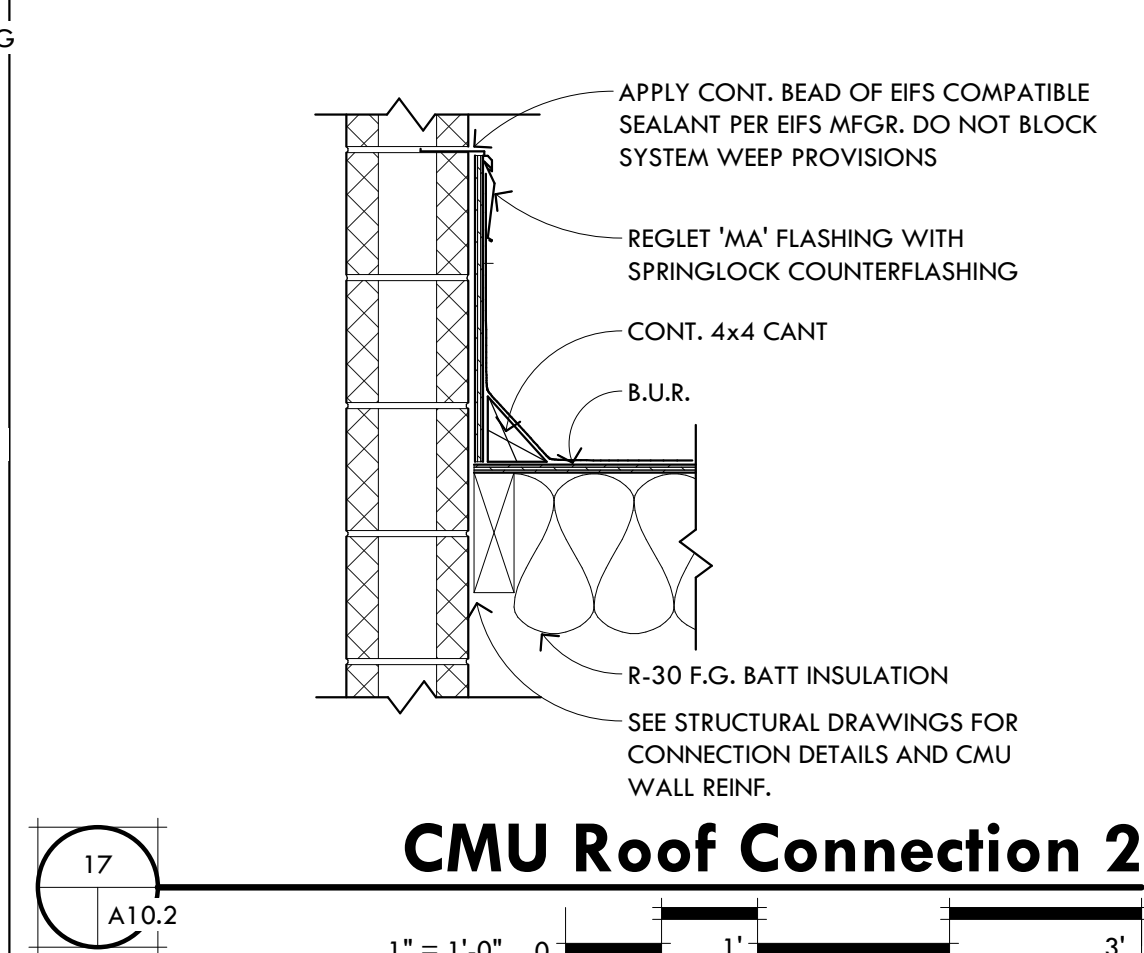
Door Threshold 3



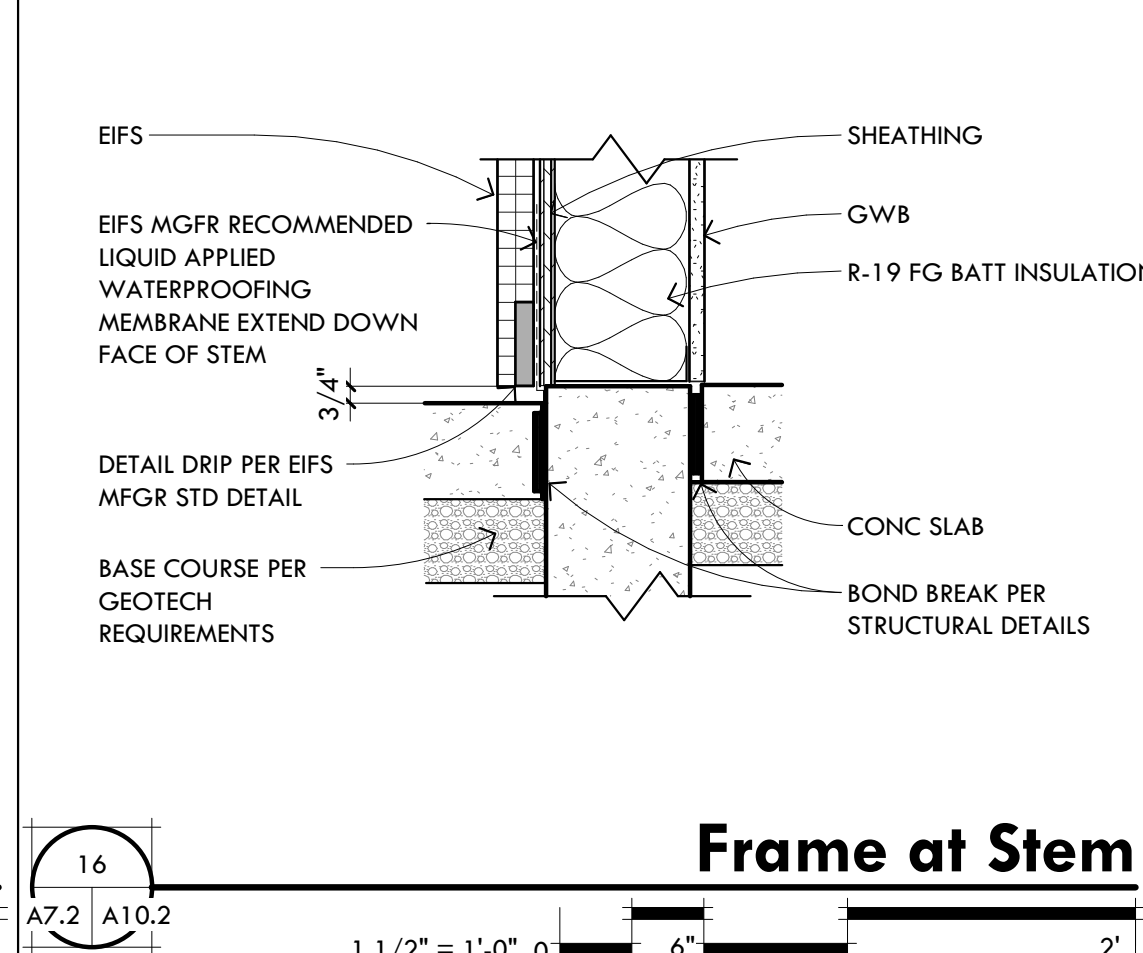
Door Threshold 2



Door Threshold 1



CMU Roof Connection 2

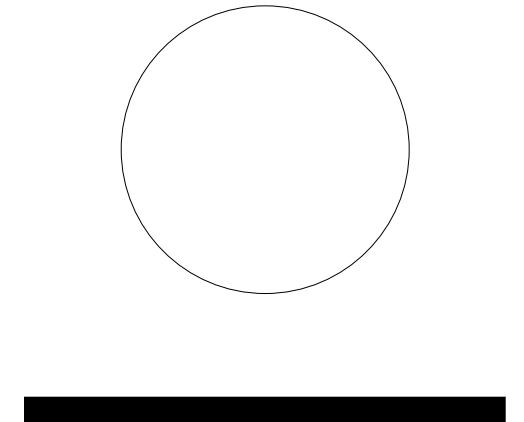


Frame at Stem



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
Preliminary Plans

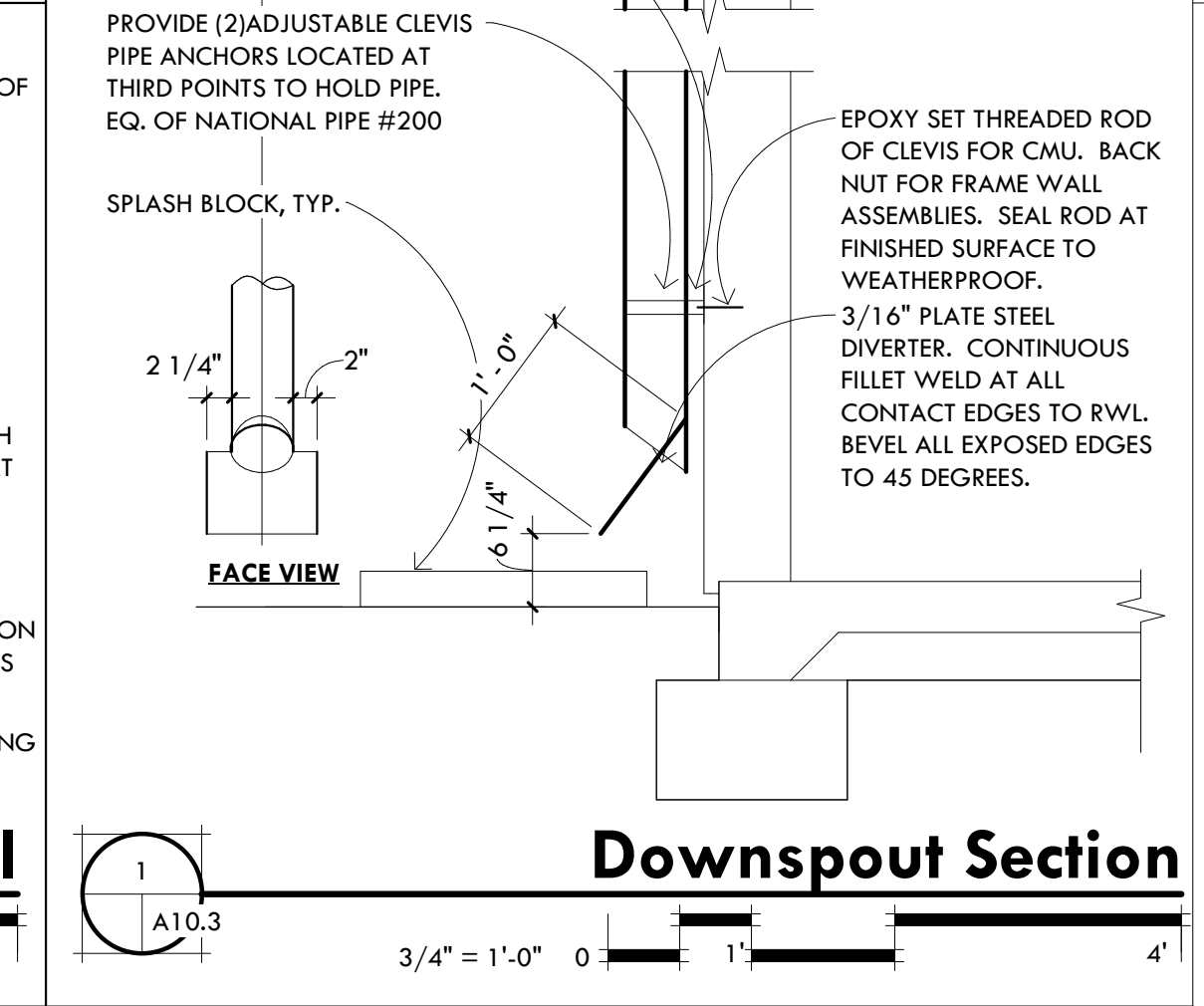
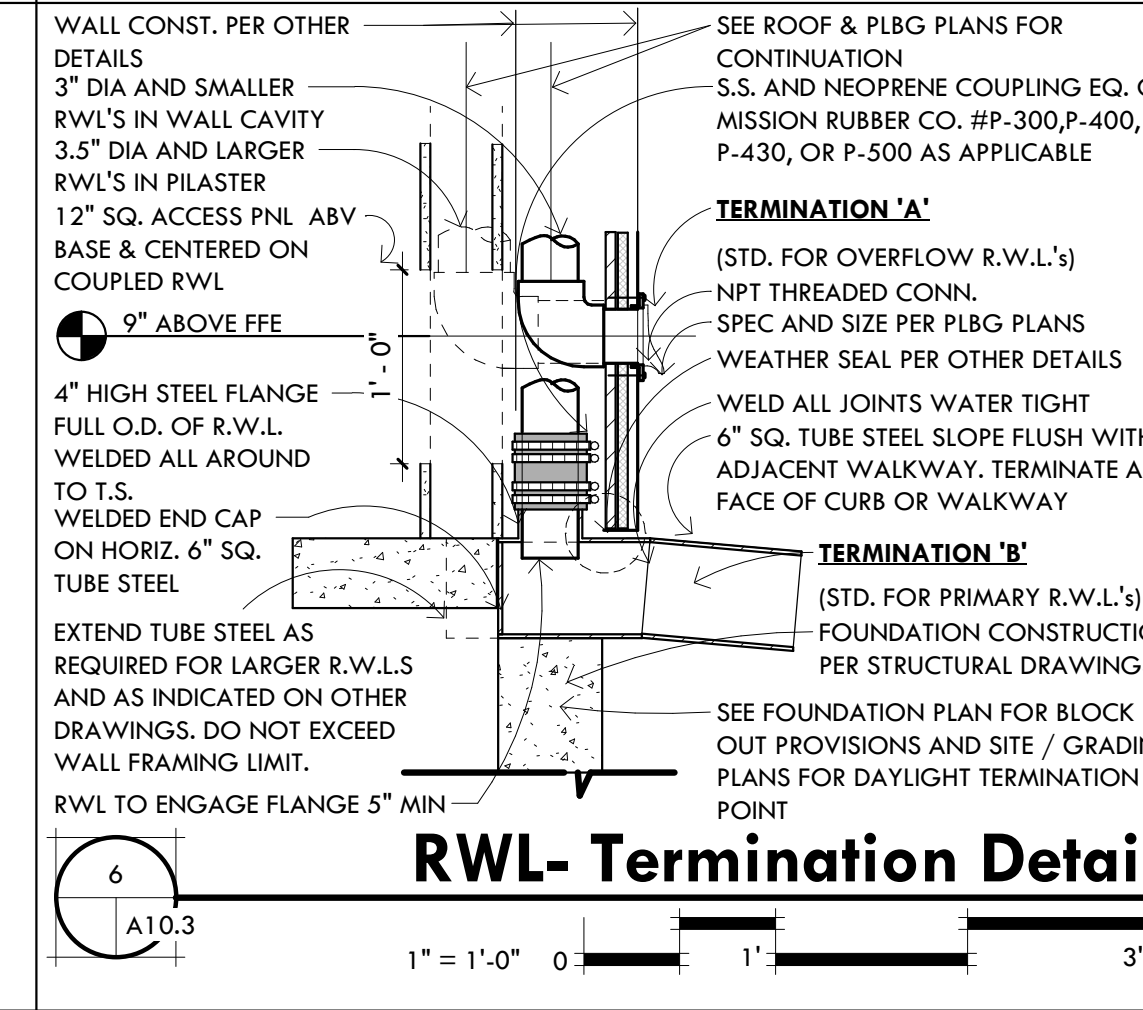
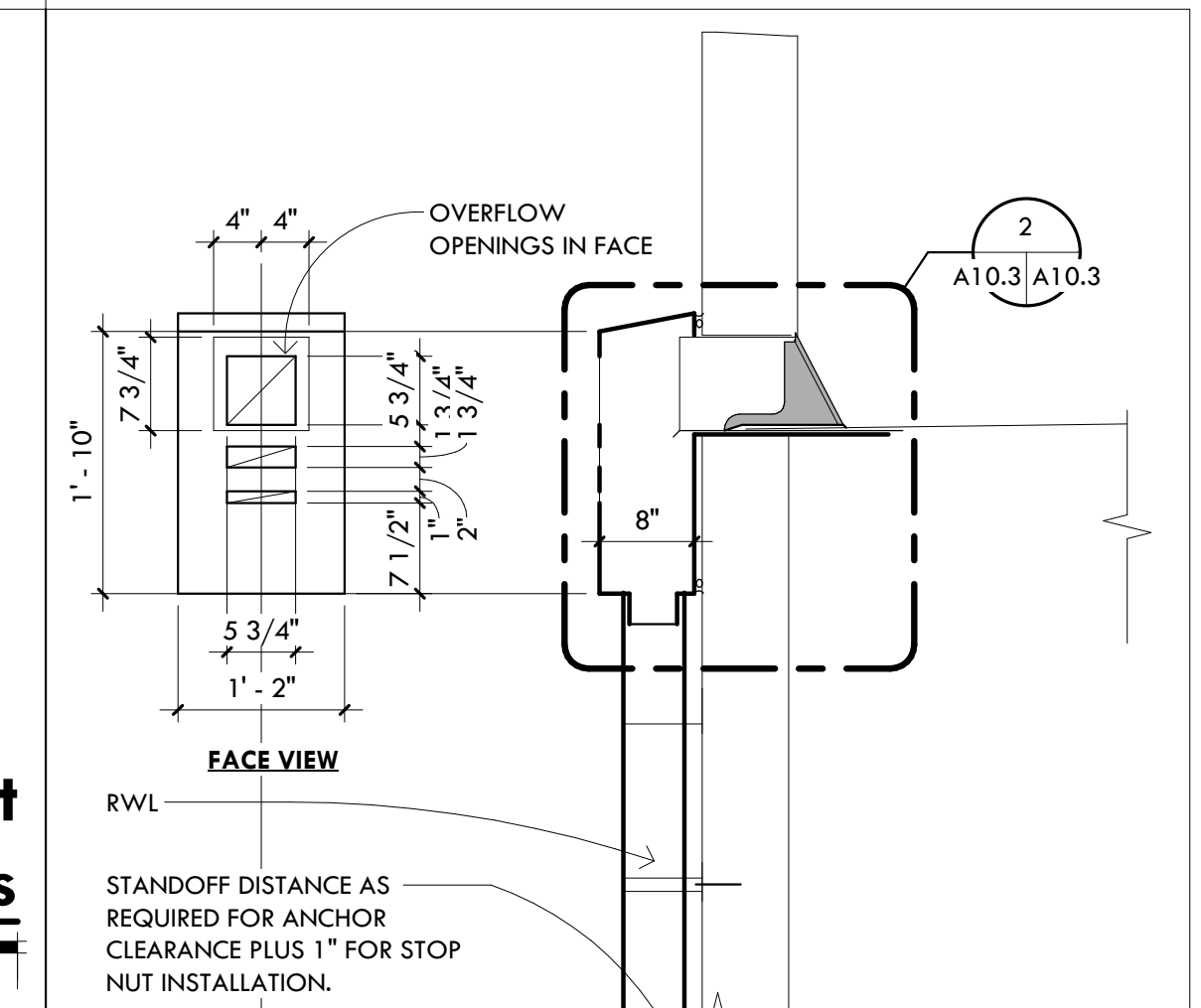
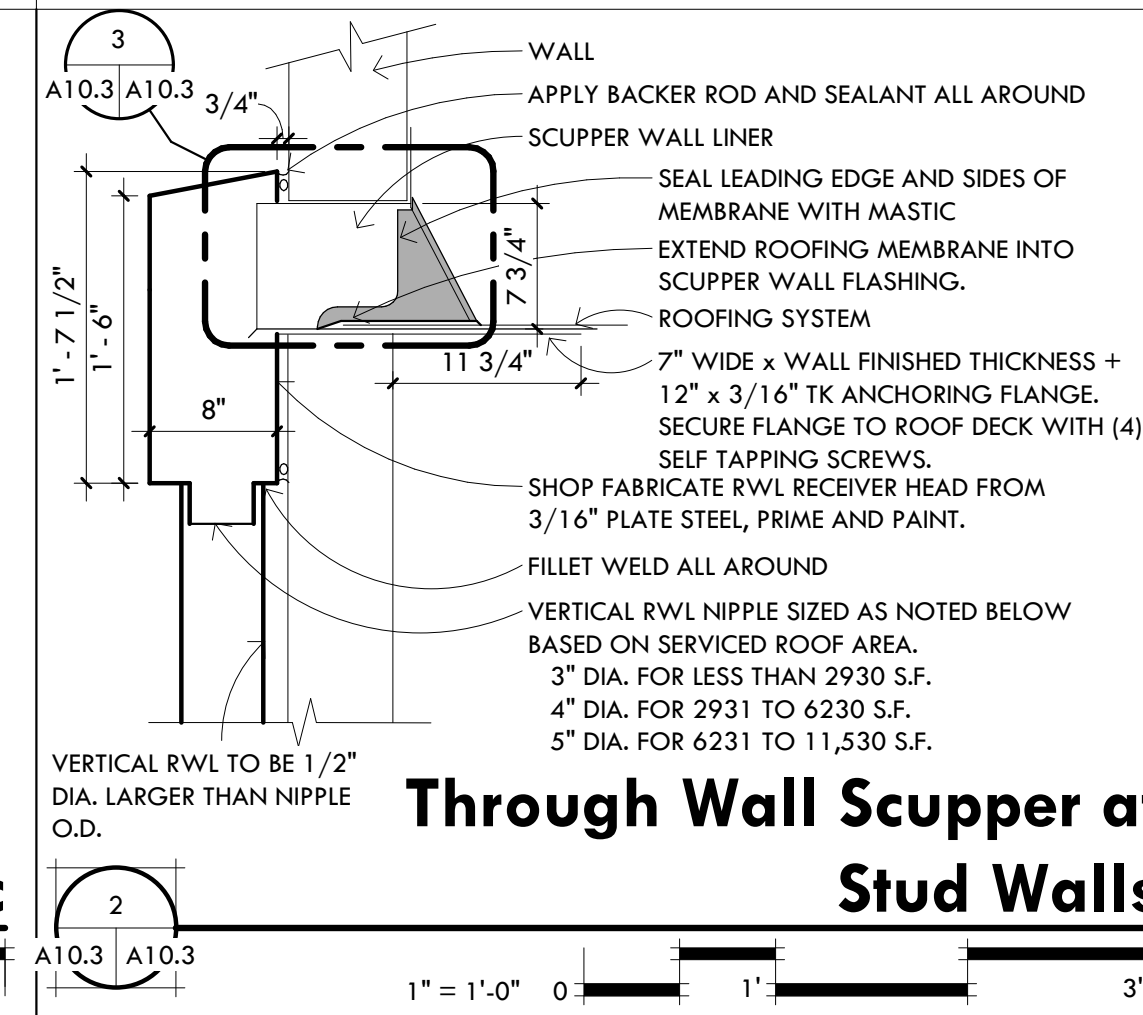
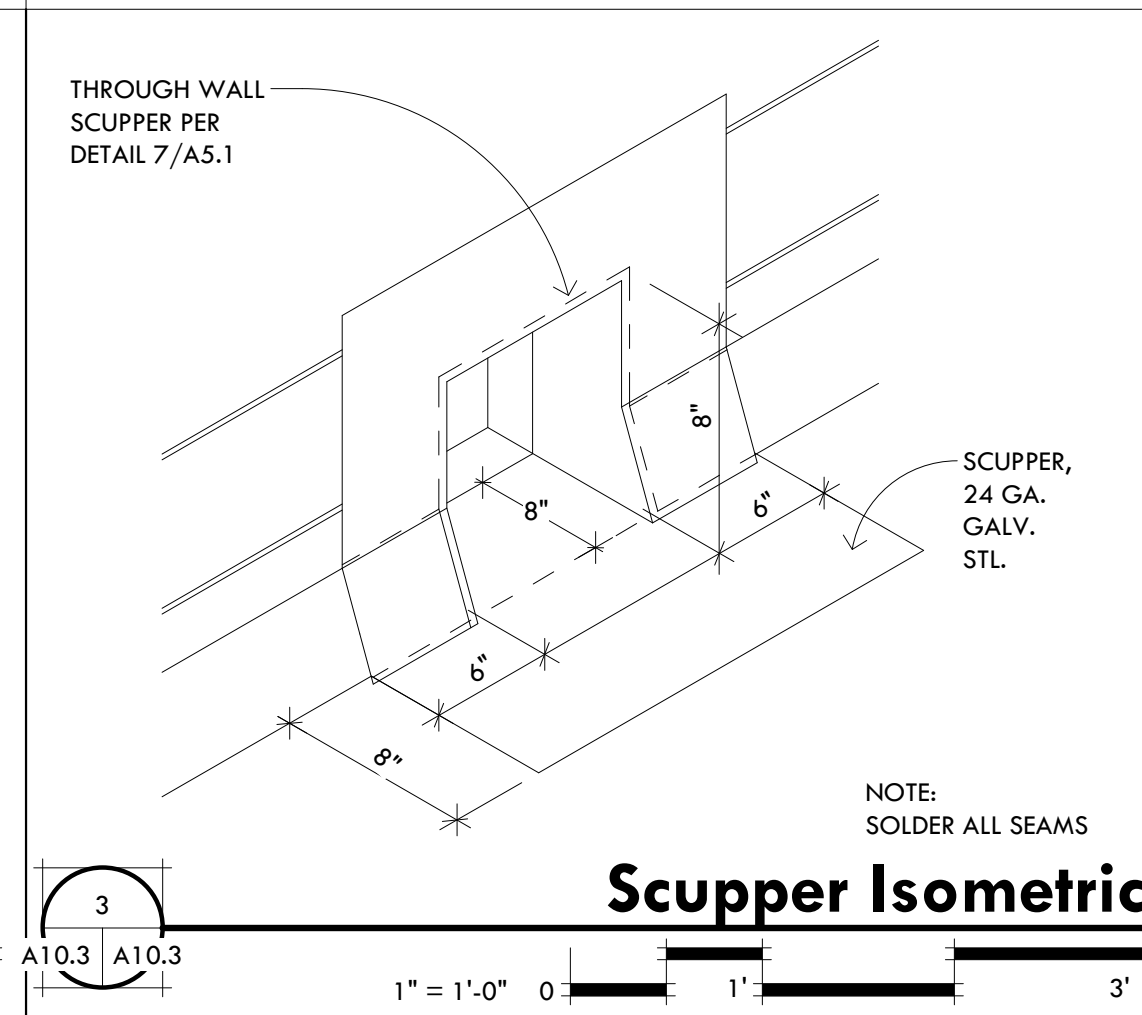
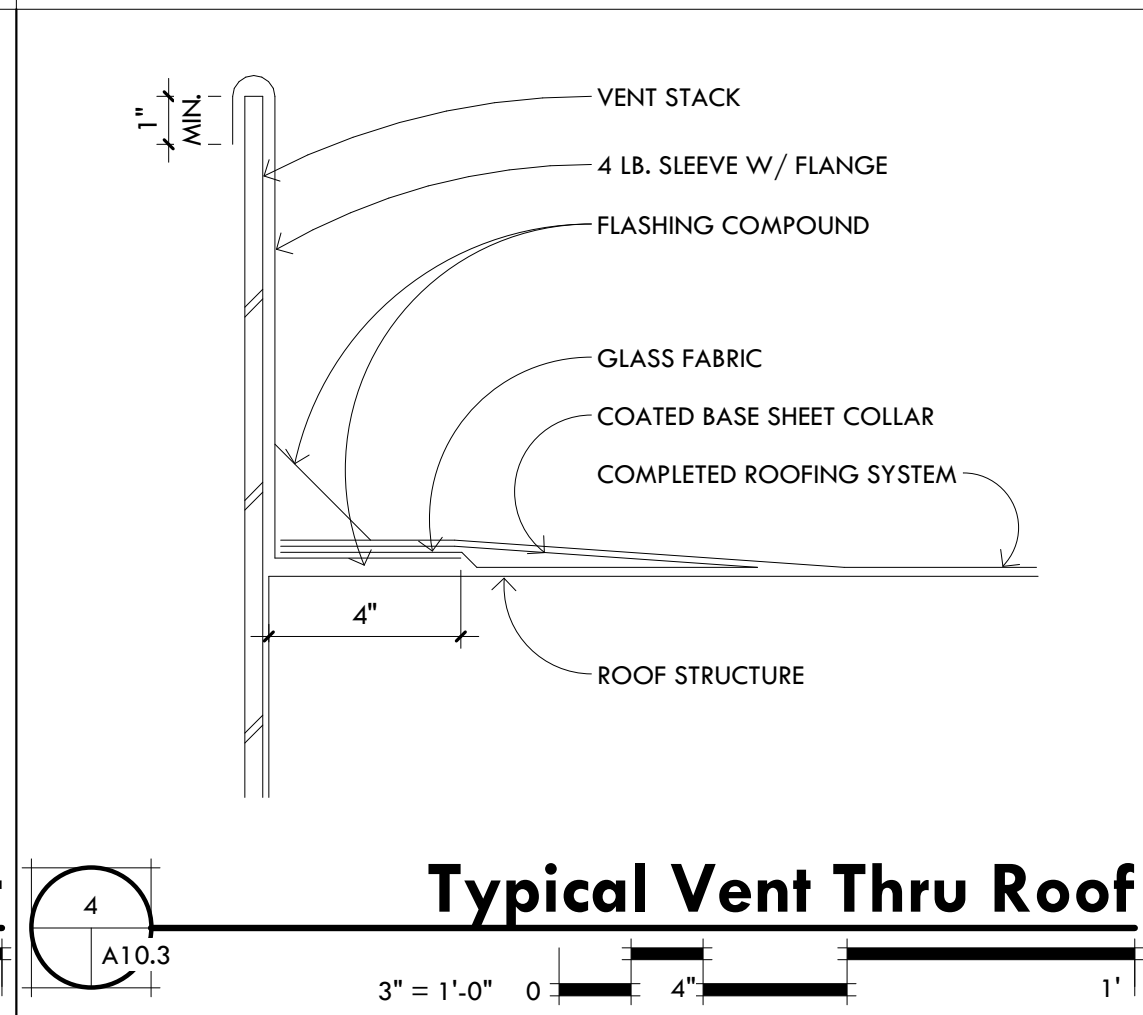
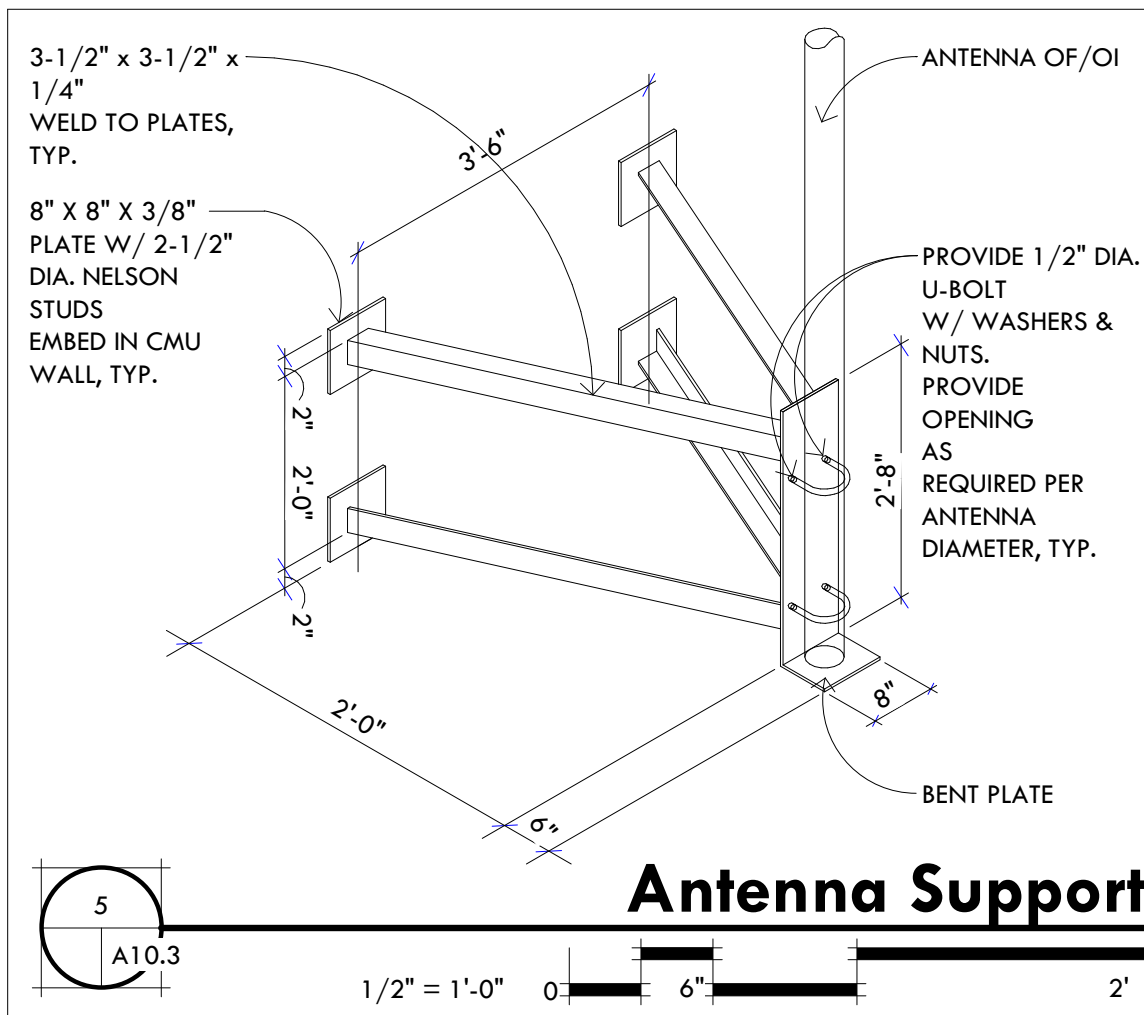


PROJECT NO: 23.21.00
DATE: JULY 2024

#	DATE	DESCRIPTION	ISSUED TO

DRAWN BY: JCG
CHECKED BY: CDA
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Details
A10.2

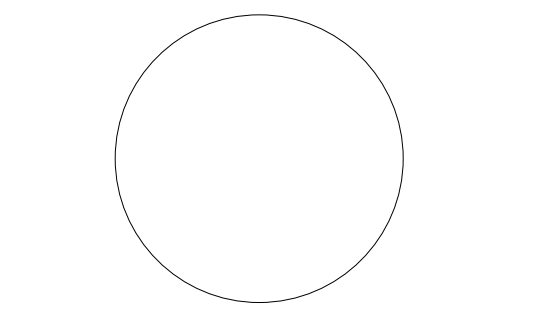
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Breckenridge
g r a d u a t e
a r c h i t e c t s
p l a n n e r s

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

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



PROJECT NO:
23.21.00

DATE:
JULY 2024

#	DATE	DESCRIPTION	ISSUED TO

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Details
A10.3

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:
 - SPECTRAL ACCELERATIONS FOR SHORT PERIODS: $S_s =$ _____
 - SPECTRAL ACCELERATIONS FOR 1 SECOND PERIODS: $S_1 =$ _____
 - 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:	
#6 AND LARGER BARS	2
#5 AND SMALLER BARS	1 1/2
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.

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PROJECT NO:
23.21.00

DATE:
June 28, 2024

REVISION SCHEDULE:		
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Structural Notes

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STRUCTURAL ENGINEERS, INC.

SO.1

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	Fb(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, Fb = 2400 PSI, Fv = 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 EI 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

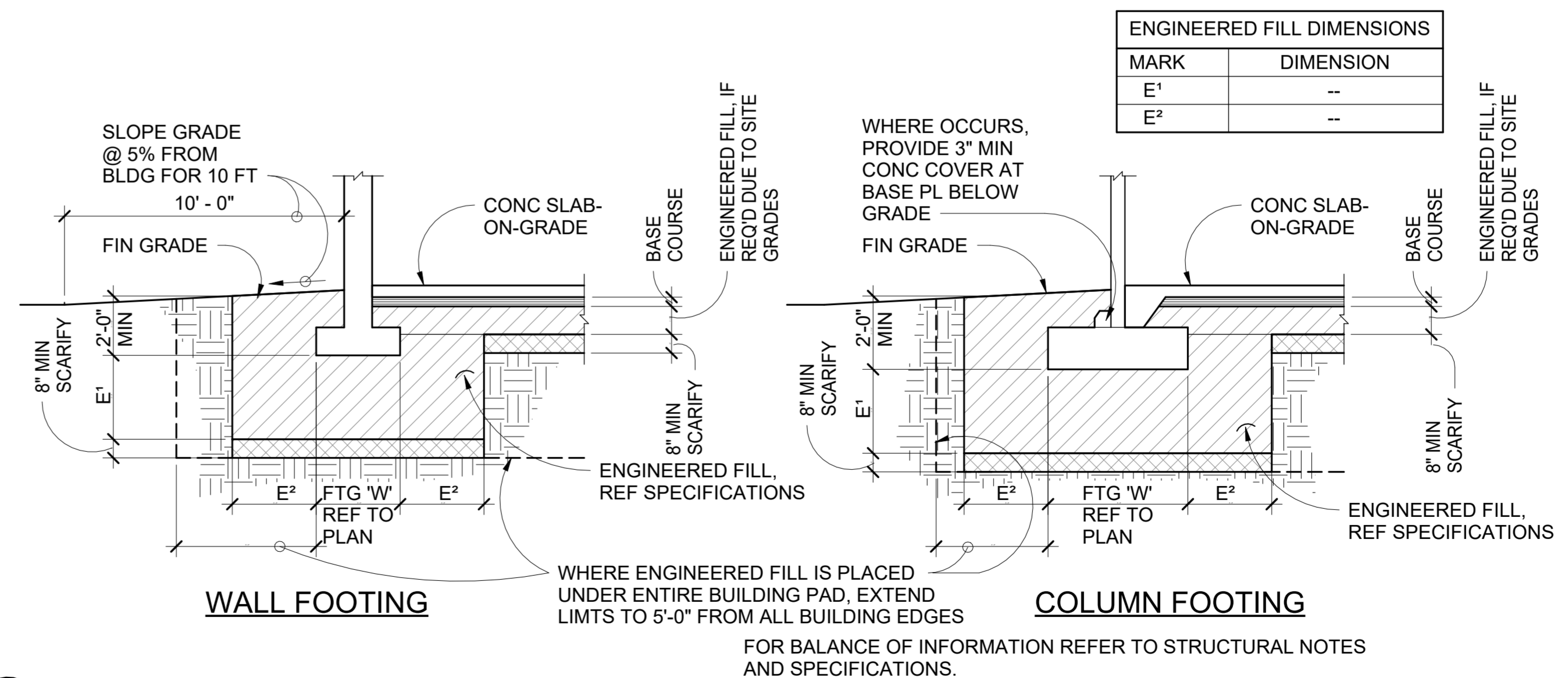
- SCREWS FOR LIGHT GAGE FRAMING:

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
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Structural Notes

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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% VISUALLY 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 ^a	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 of 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	6.5.2
- Dimensions (alignment, root opening, root face, bevel)	5.22
- Cleanliness (condition of steel surfaces)	5.15
- Tacking (tack weld quality and location)	5.18
- Backing type and fit (if applicable)	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)	5.22.1
- Cleanliness (condition of steel surfaces)	5.15
- Tacking (tack weld quality and location)	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	6.2
- Packaging	5.3.1
- Exposure control	5.3.2 (for SMAW), 5.3.3 (for SAW)
No welding over cracked tack welds	5.18
Environmental conditions	
- Wind speed within limits	5.12.1
- Precipitation and temperature	5.12.2
WPS followed	
- Settings on welding equipment	6.3.3, 6.5.2, 5.5, 5.21
- Travel speed	
- Selected welding materials	
- Shielding type/flow rate	
- Preheat applied	5.6, 5.7
- Interpass temperature maintained (min./max.)	
- Proper position (f, v, h, oh)	
Welding techniques	
- Interpass and final cleaning	6.5.2, 6.5.3, 5.24
- Each pass within profile limitations	5.30.1
- Each pass meets quality requirements	

* 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	6.5.3
- Crack prohibition	Table 6.1(1)
- Weld/base-metal fusion	Table 6.1(2)
- Crater cross section	Table 6.1(3)
- Weld profiles	Table 6.1(4), 5.24
- Weld size	Table 6.1(6)
- Under cut	Table 6.1(7)
- Porosity	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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Design Development

PRELIMINARY
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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 ENGINEERS, INC.

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.

Breckenridge

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520.882.9944

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

Design Development

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PROJECT NO:
23.21.00

DATE:
June 28, 2024

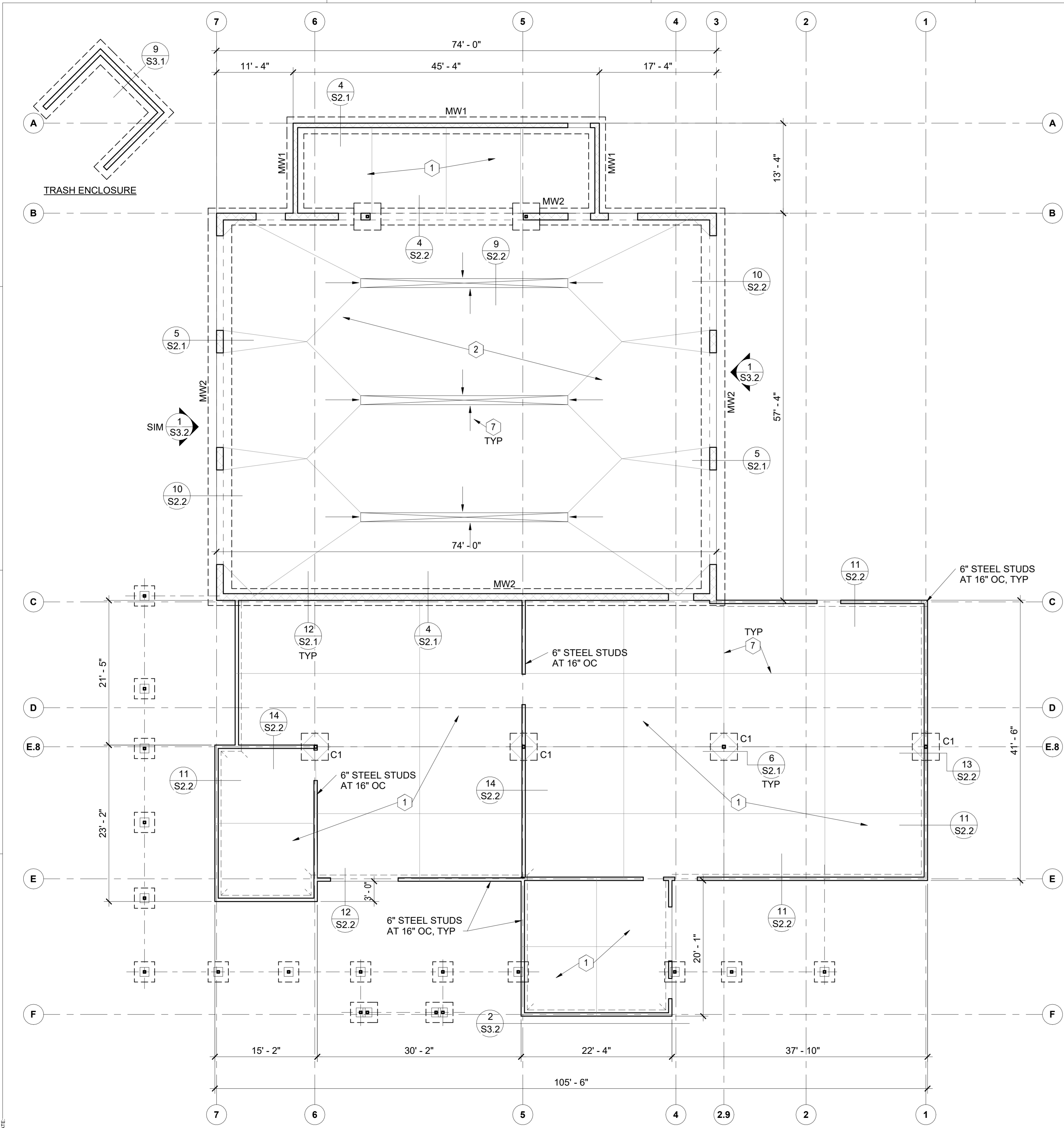
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- KEYNOTES:**
- 5" THICK CONCRETE SLAB ON 15 MIL VAPOR BARRIER OVER 4" BASE COURSE. REFER TO DETAIL 2/ S2.2
 - 7" THICK CONCRETE SLAB ON 15 MIL VAPOR BARRIER OVER 4" BASE COURSE. REFER TO DETAIL 1/ S2.2
 - REFER TO ARCH, CIVIL AND LANDSCAPE DWGS FOR 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"

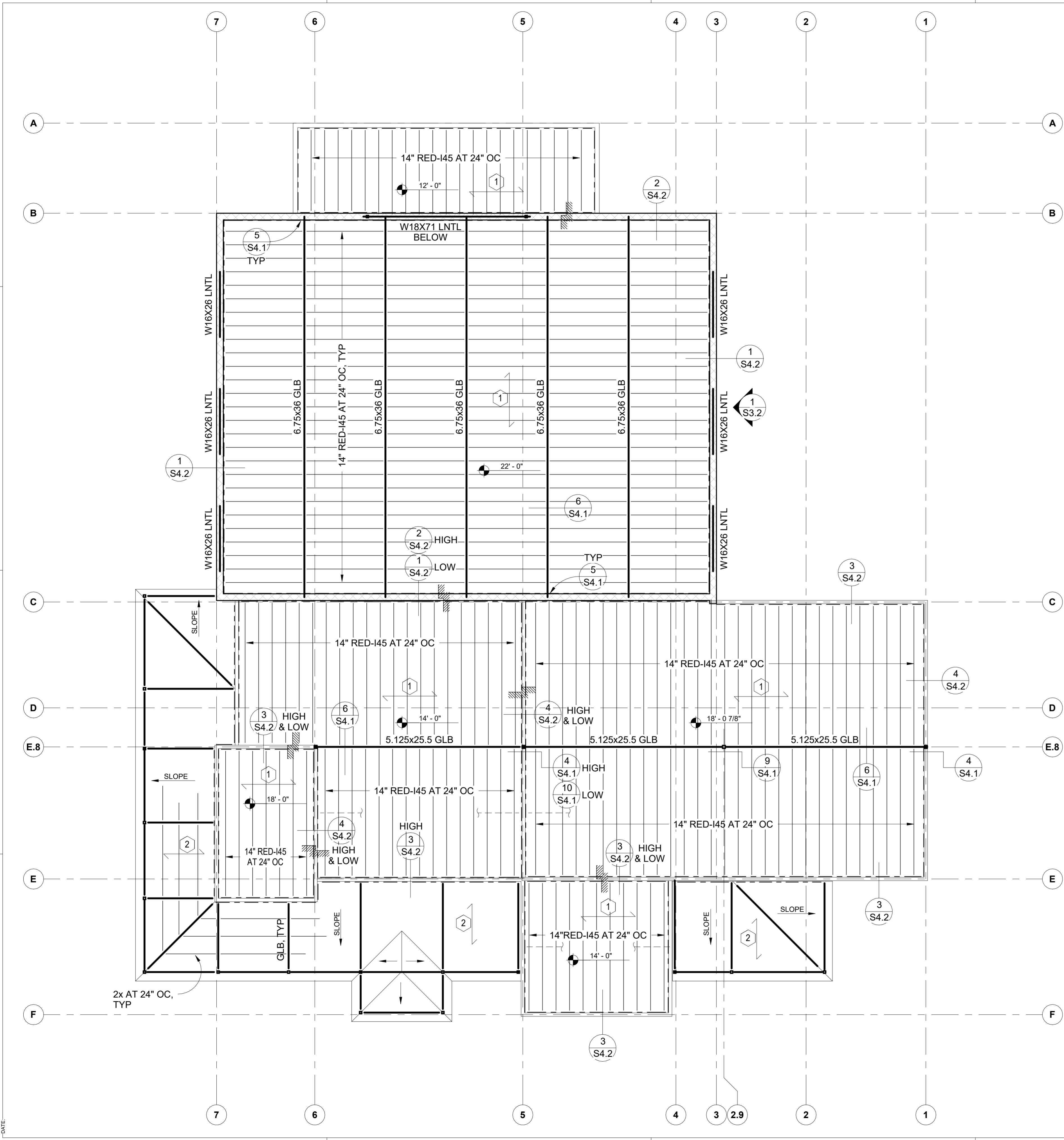
1 FOUNDATION PLAN
1/8" = 1'-0"



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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

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

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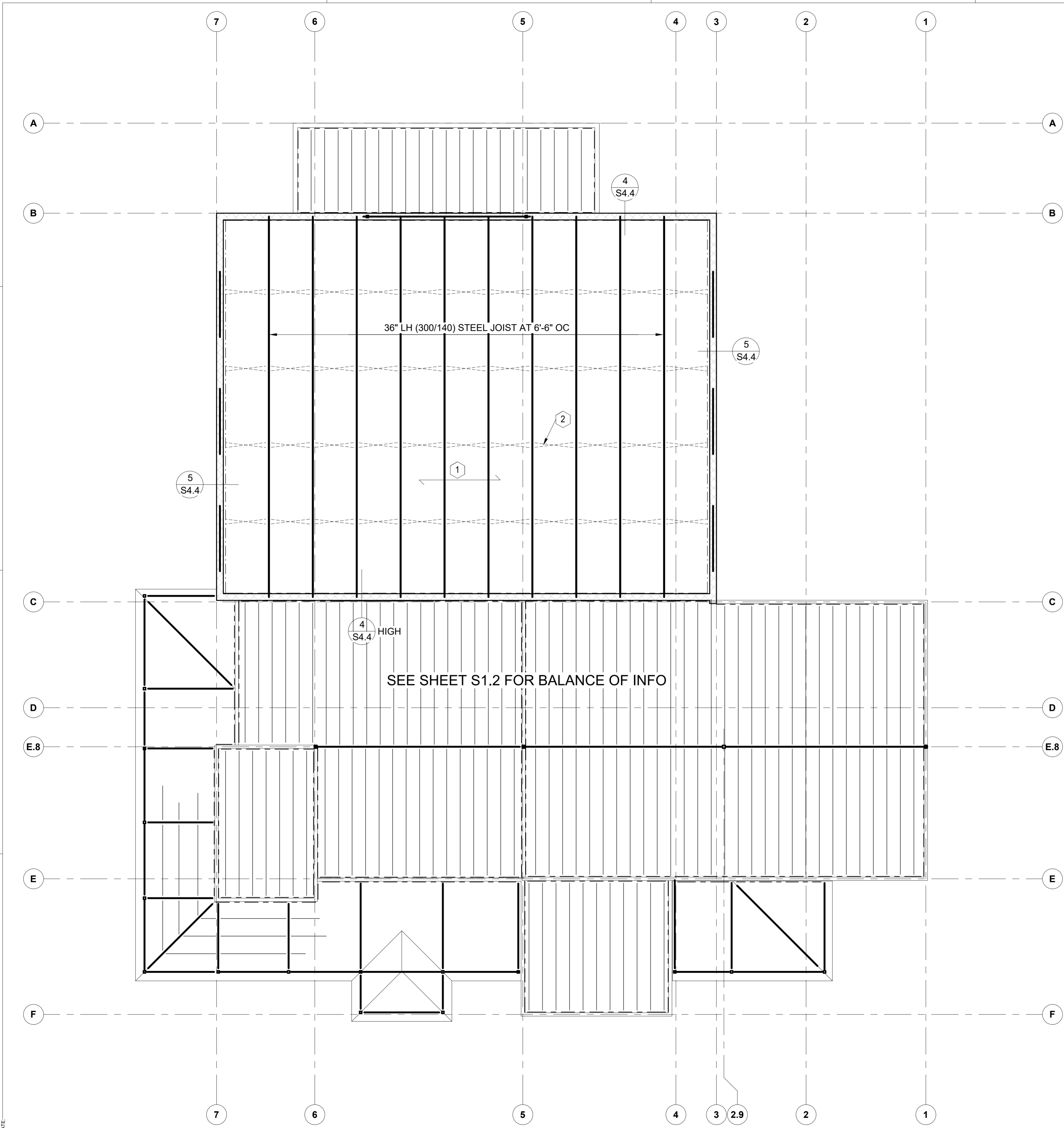
1 ROOF FRAMING PLAN - WOOD ROOF APPARATUS BAY
 1/8" = 1'-0"



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

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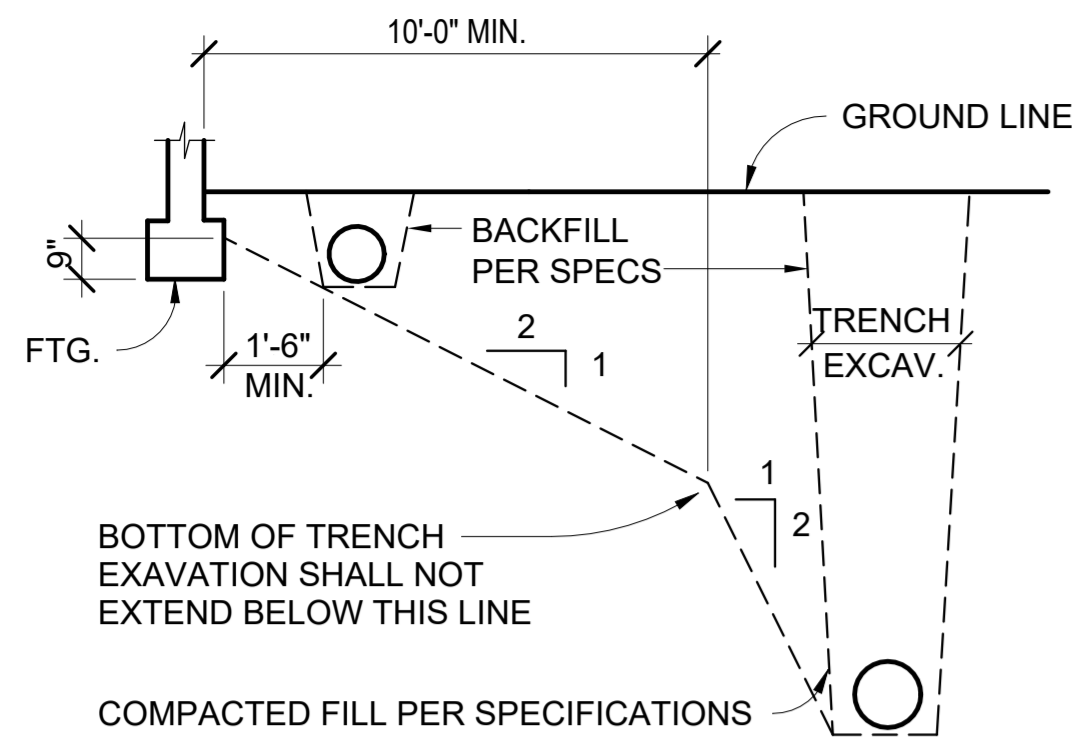
1 ROOF FRAMING PLAN - STEEL ROOF APPARATUS BAY
 1/8" = 1'-0"



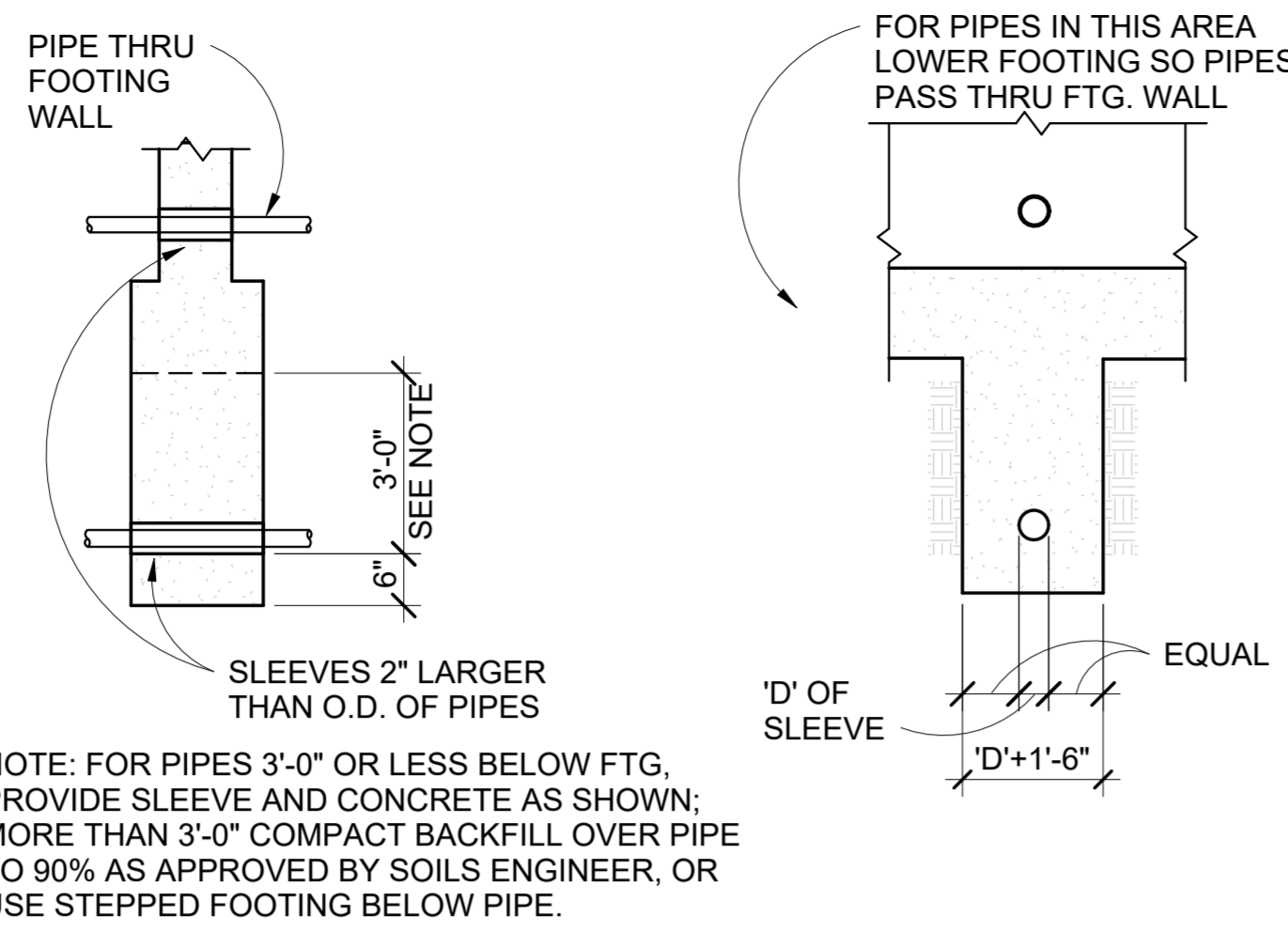
Roof Framing
 Plan - Steel Alt

S1.2a

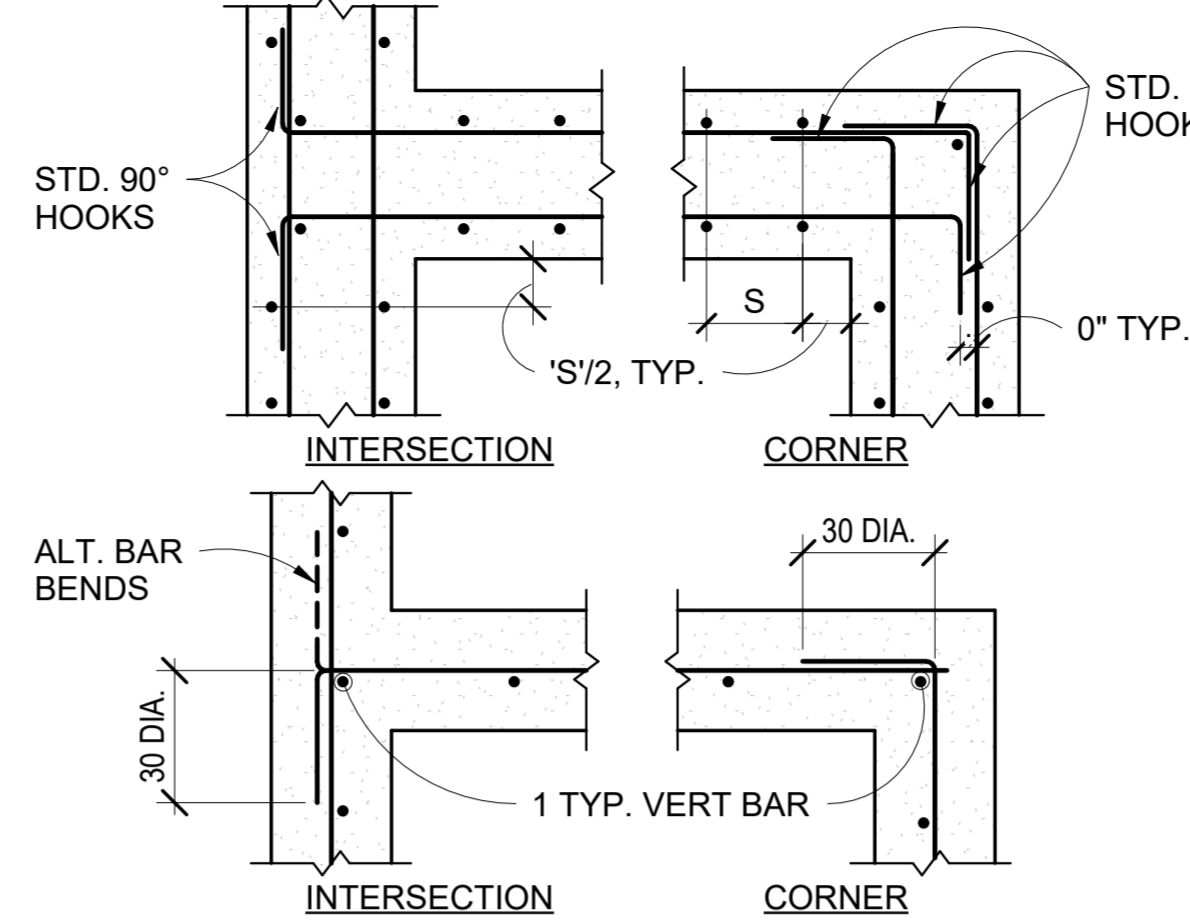
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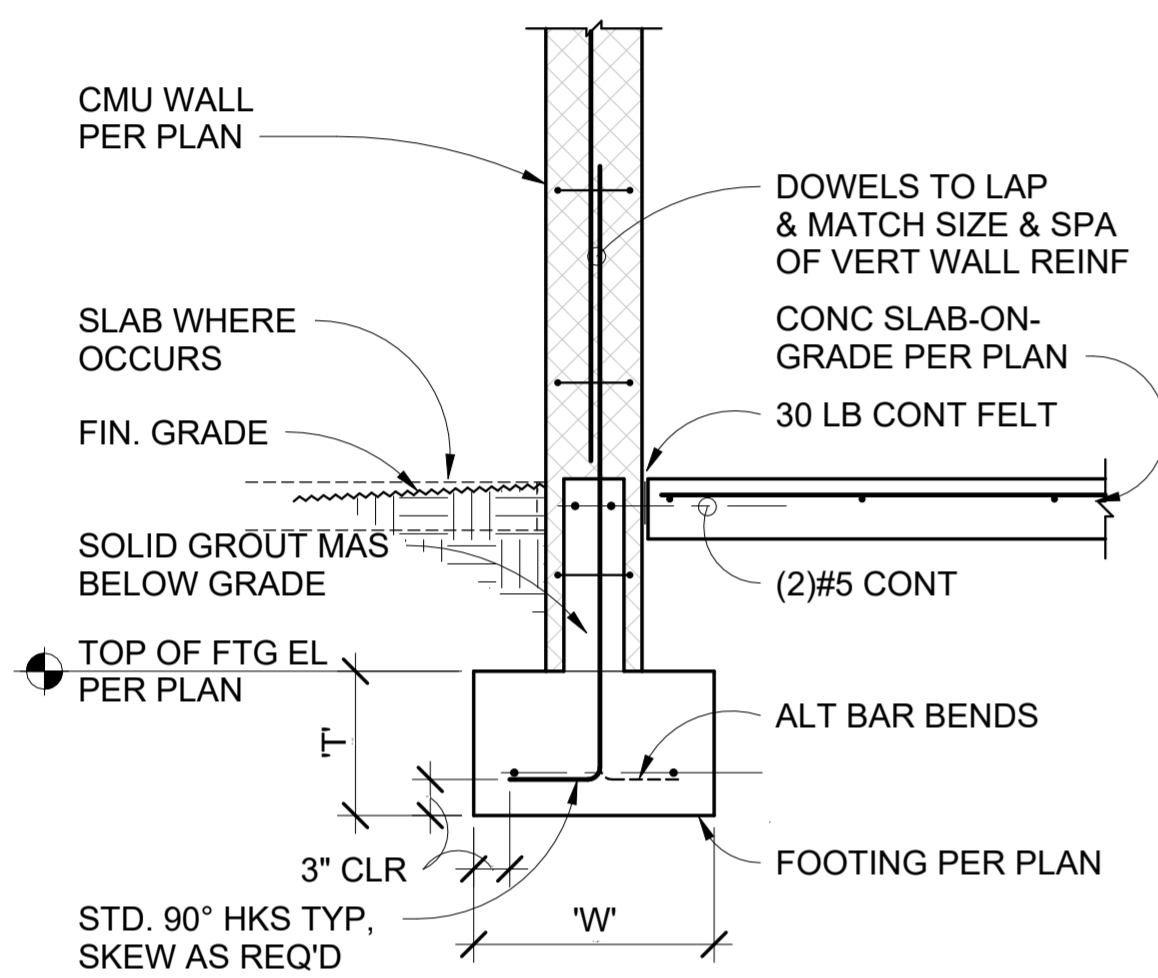
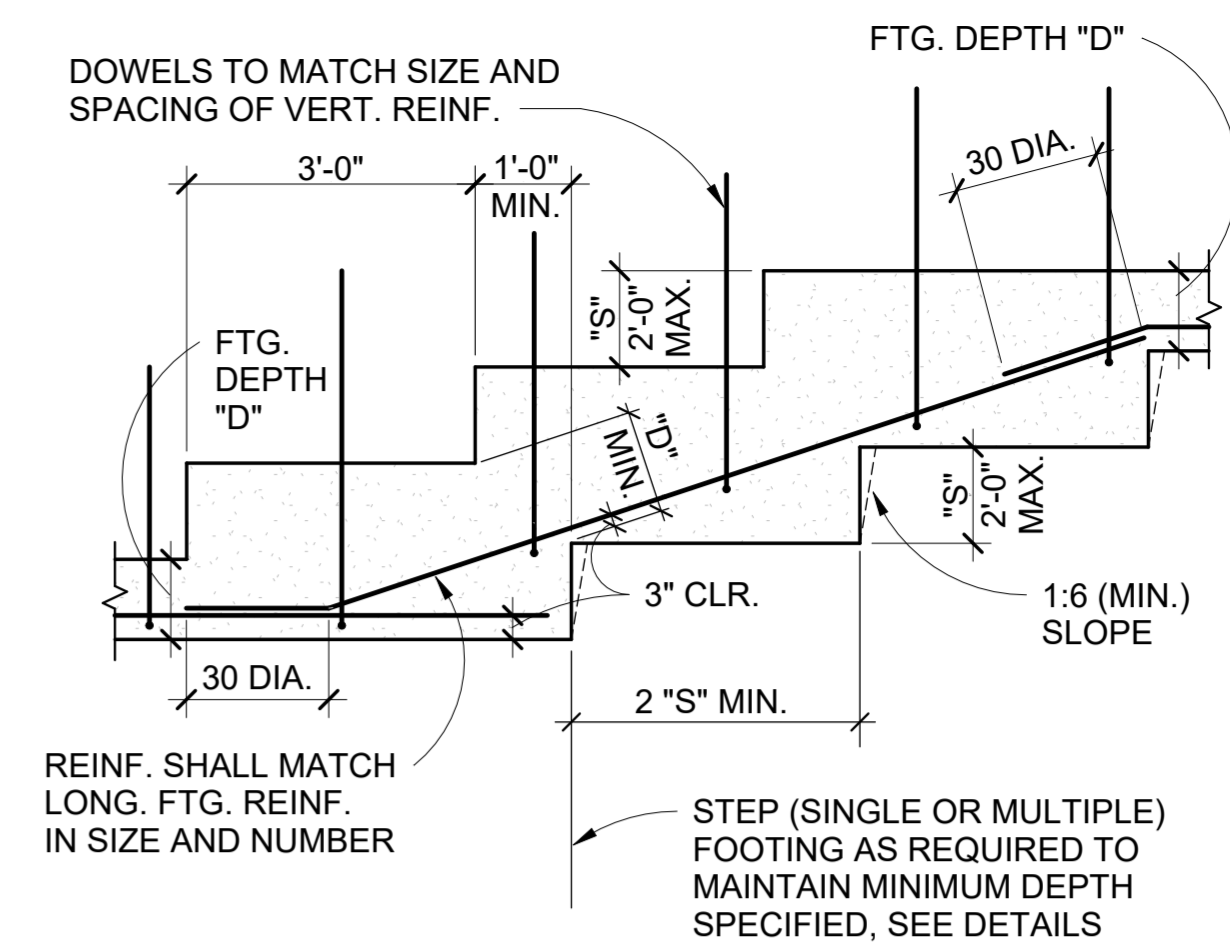
1 TYP. EXCAVATION DETAILS
NO SCALE



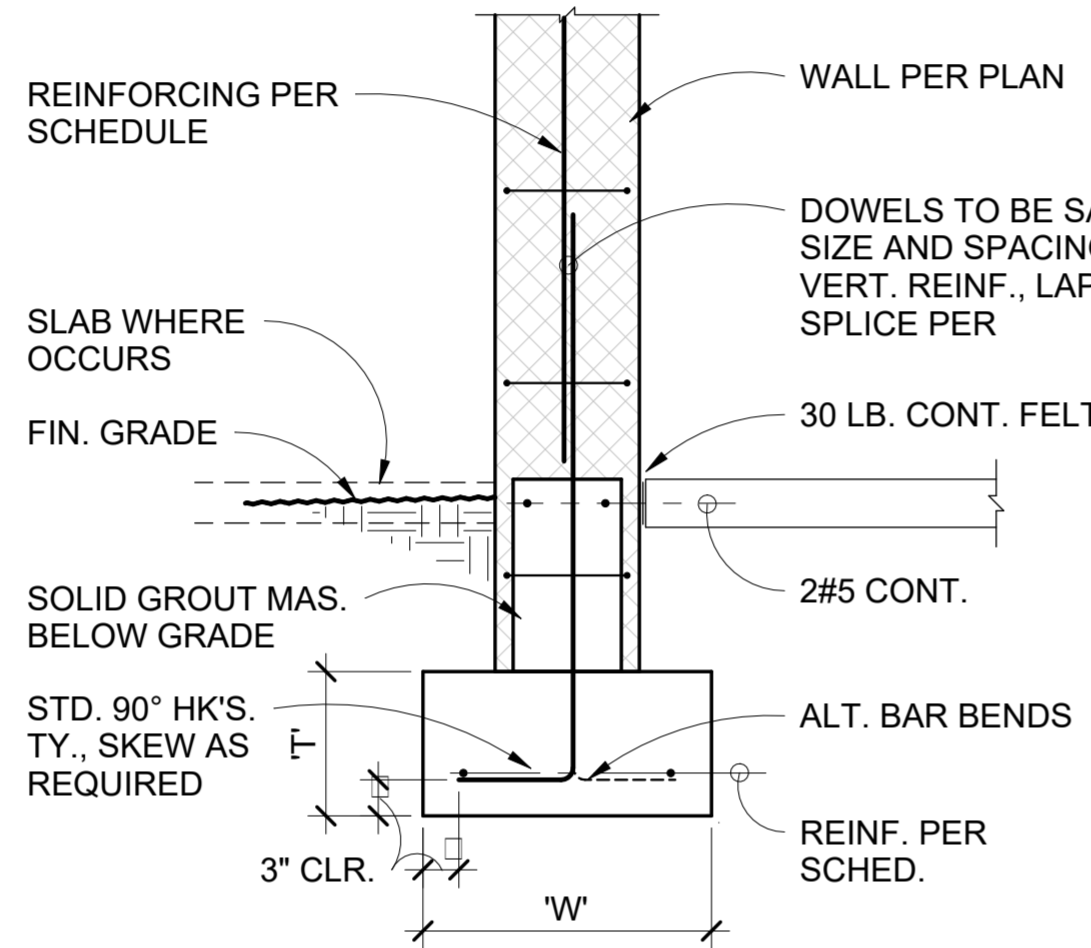
2 TYP REINF. AT CONC. WALL & FTG.
NO SCALE



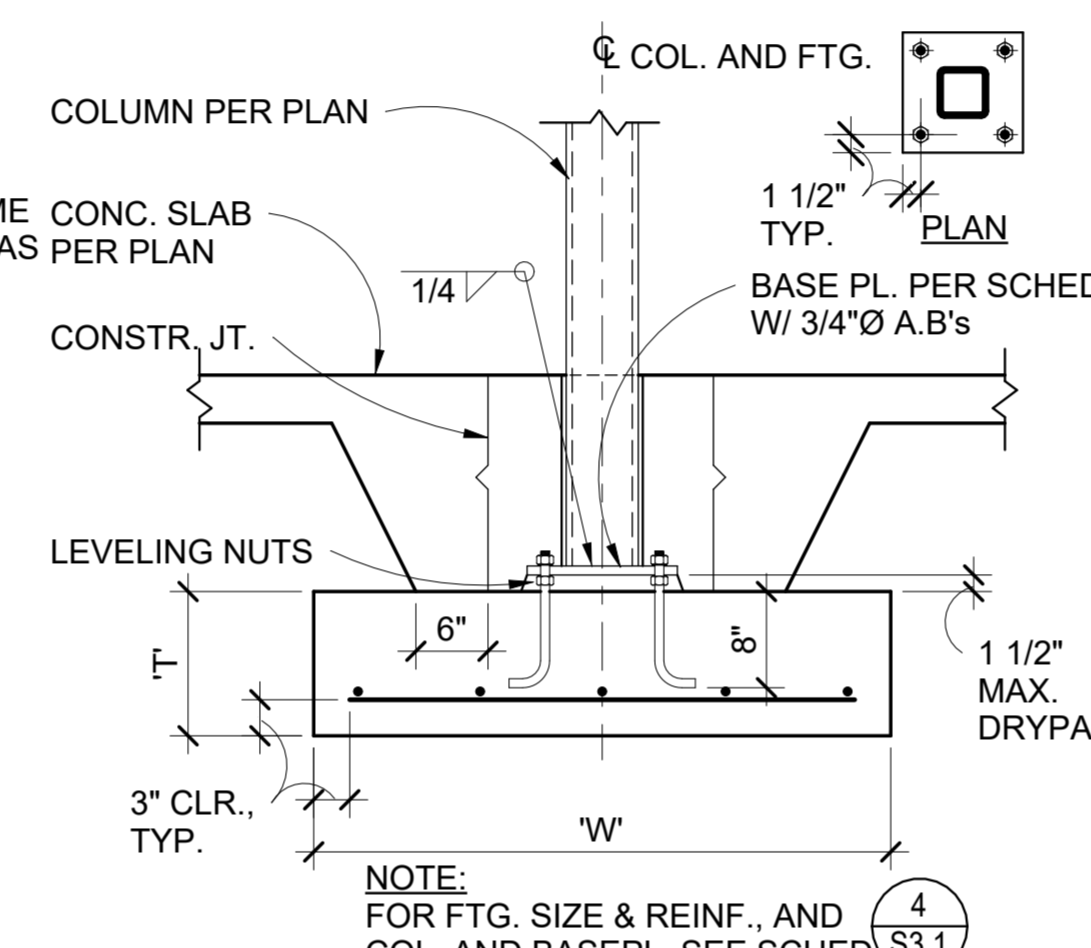
3 TYP. STEPPED FOOTING
NO SCALE



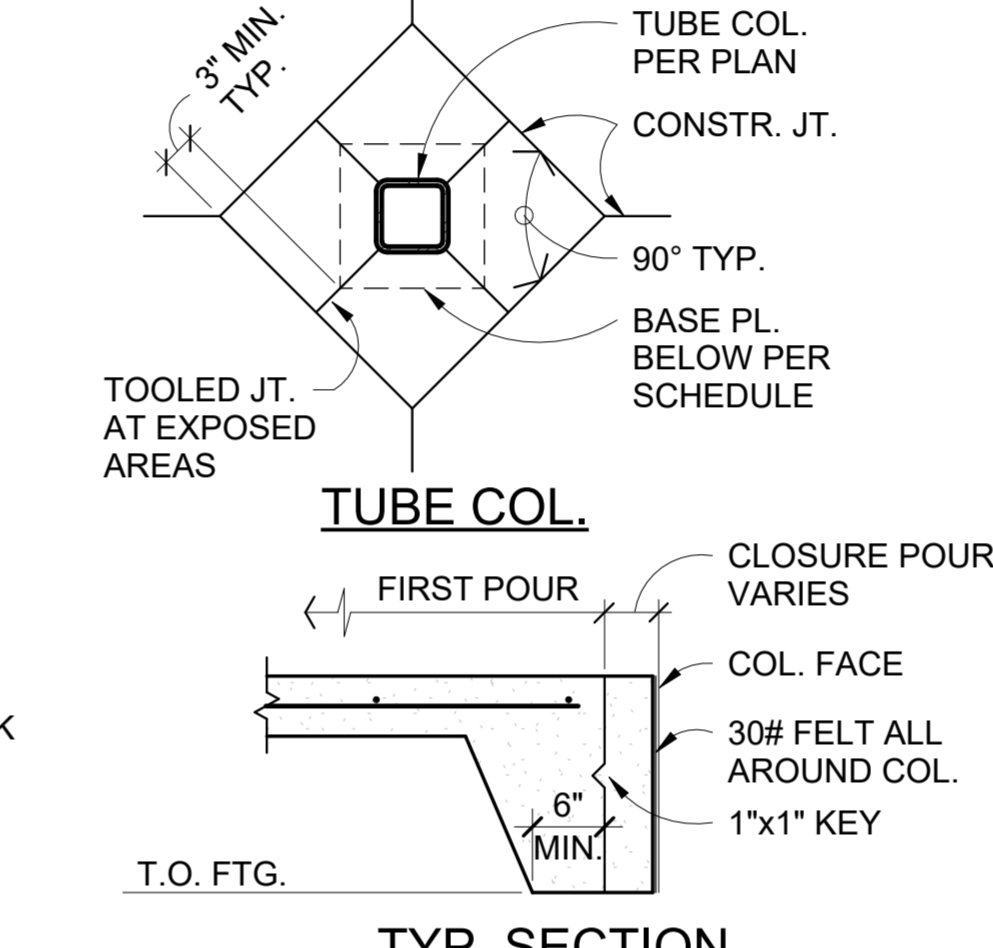
5 TYP CONT WALL FTG (12" CMU WALL)
3/4" = 1'-0"



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



7 TYP. CONSTR. JOINT AT COL.
NO SCALE

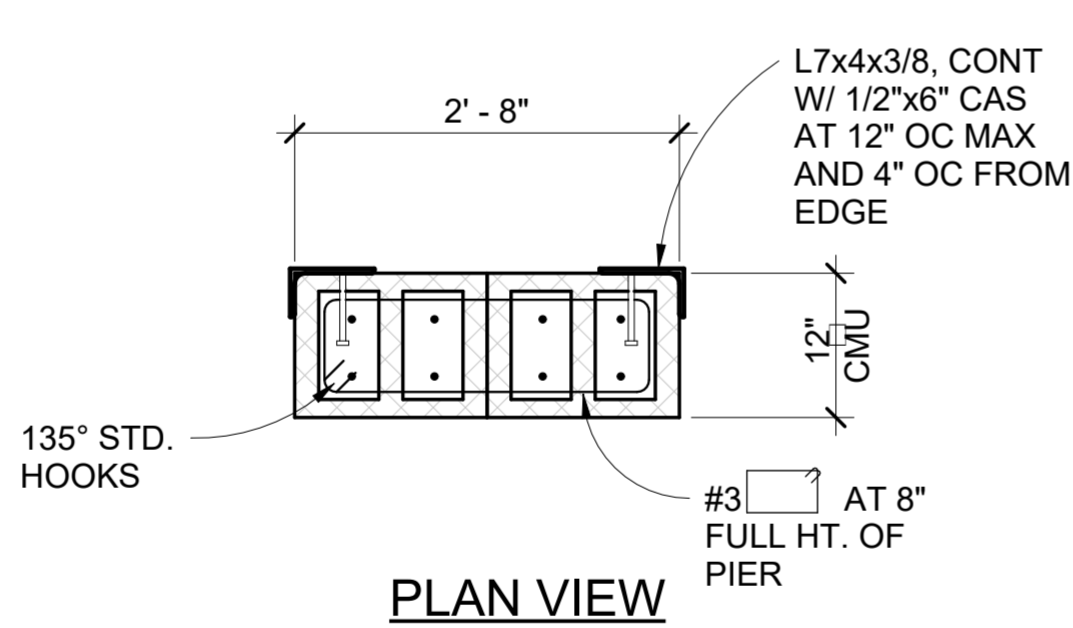


12 TYP COLUMN IN MASONRY WALL
3/4" = 1'-0"

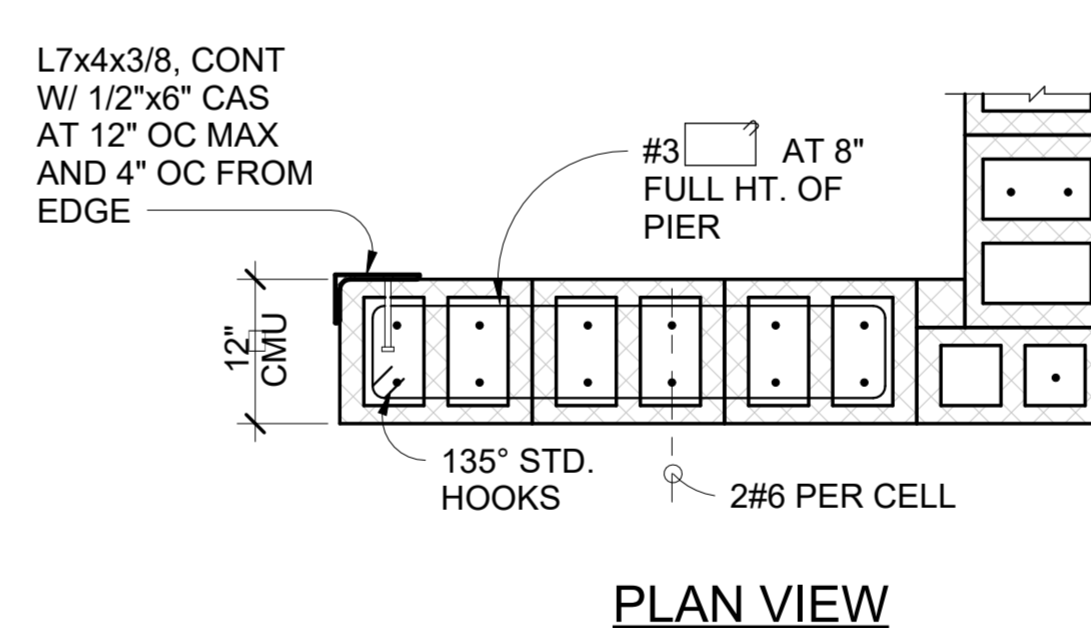
BAR SIZE	LAP SPLICE LENGTH IN INCHES	
	BOTTOM BARS	TOP BARS (SEE NOTE 3)
#4	29	37
#5	36	47
#6	43	56

- 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.

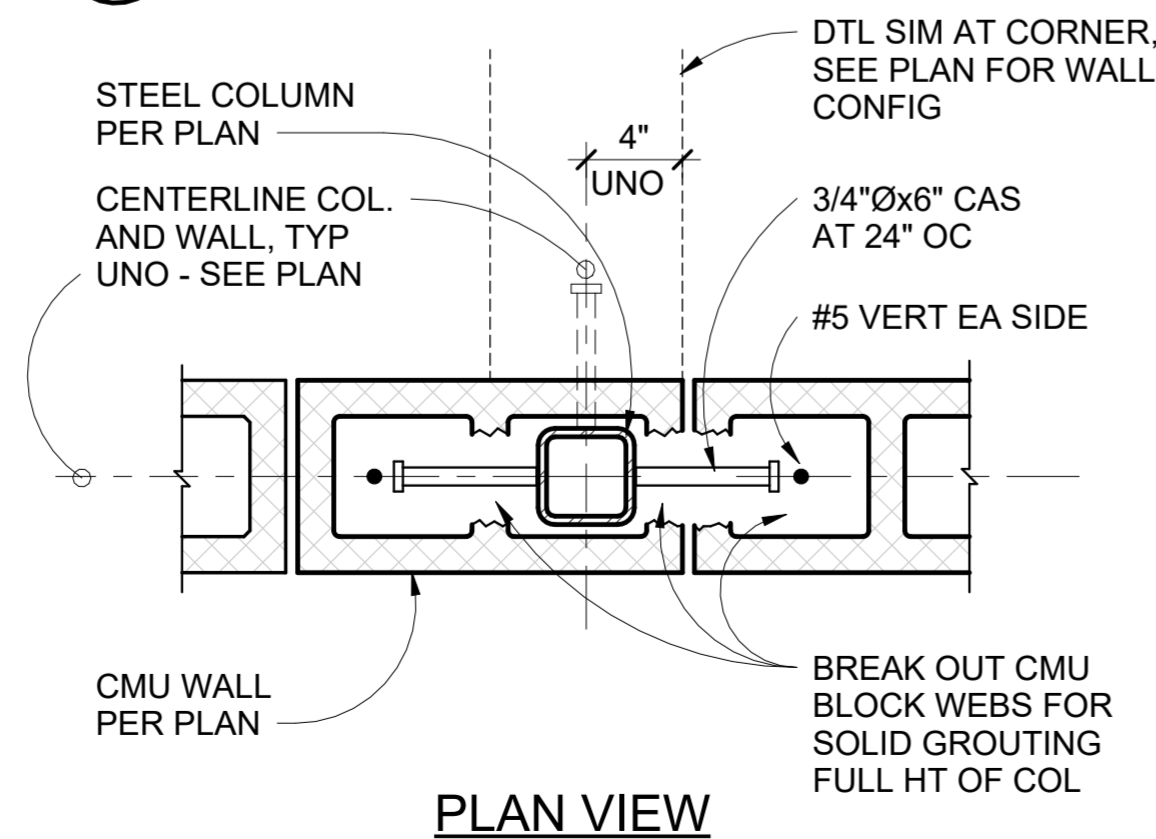
9 CONC. REINF. LAP SPLICE SCHED
NO SCALE



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



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



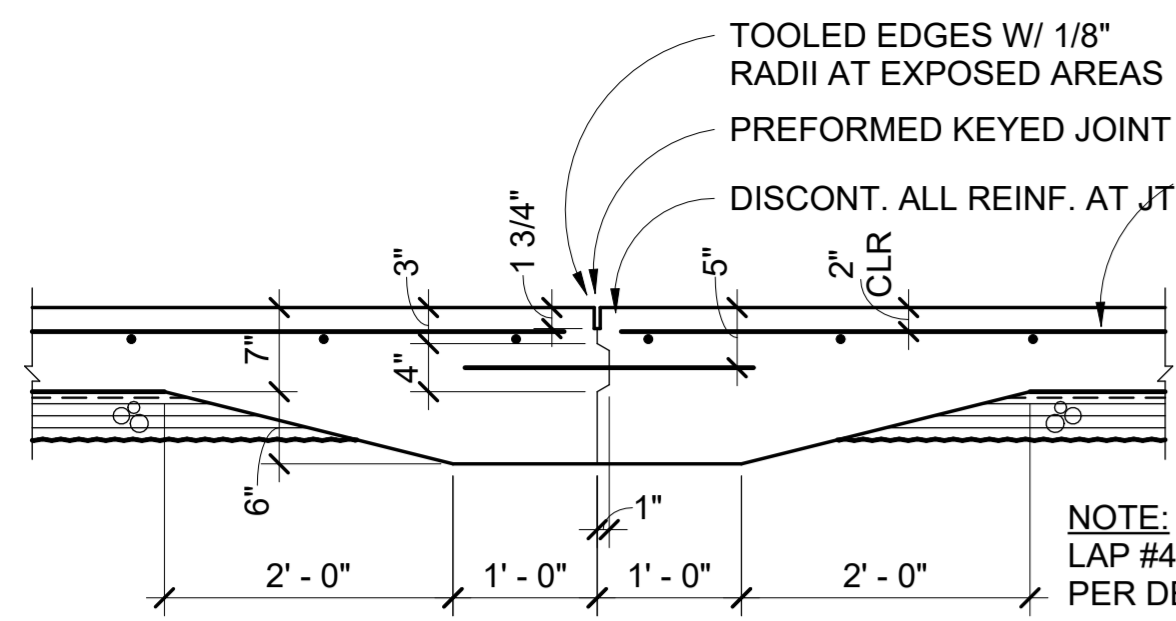
13 TYP STEEL COL IN MAS WALL
NO SCALE

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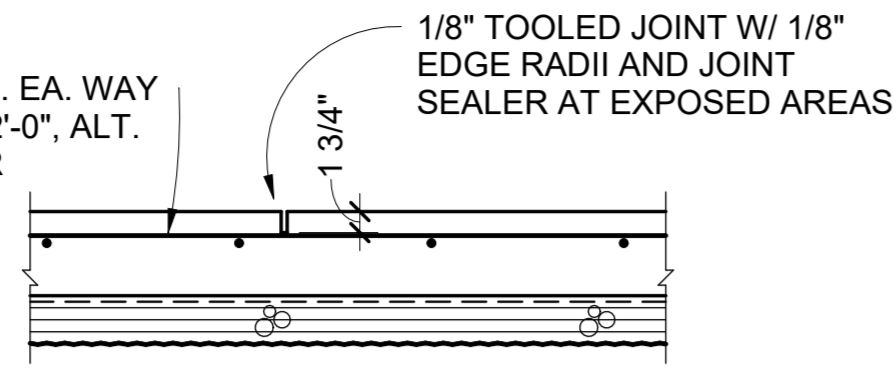
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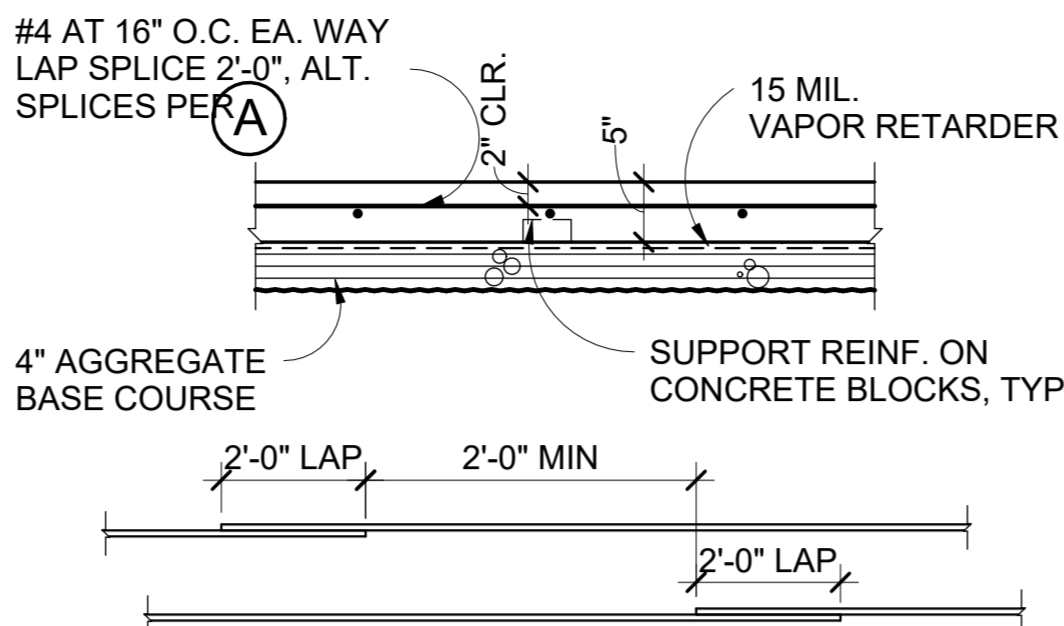
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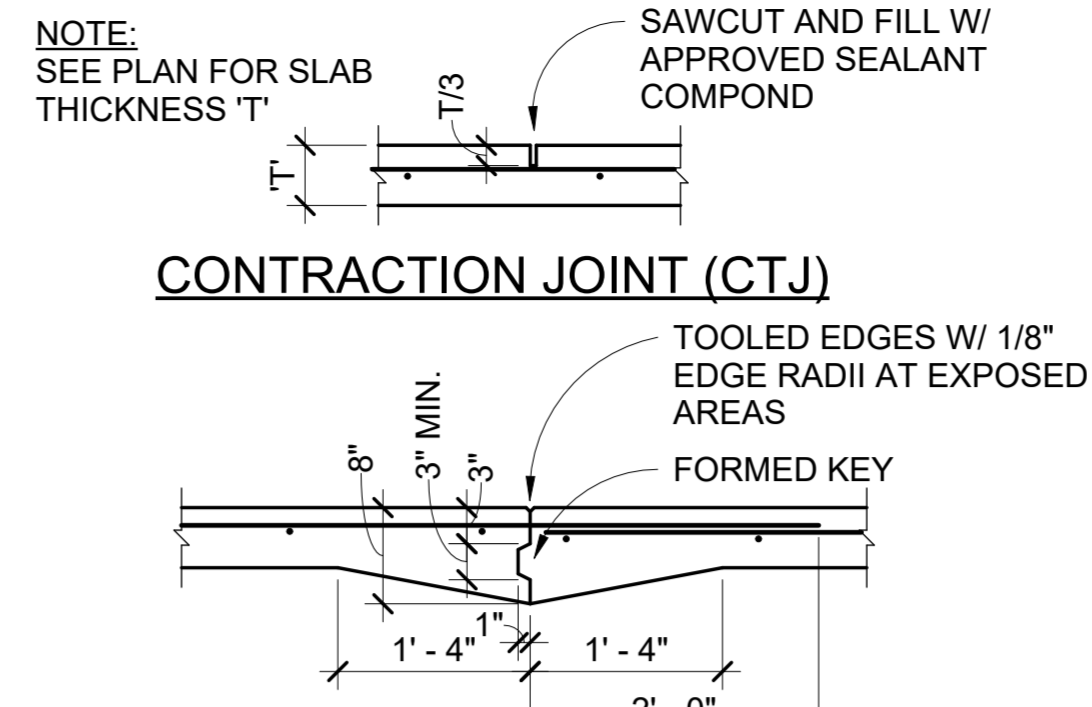
CONSTRUCTION JOINT (CJ)



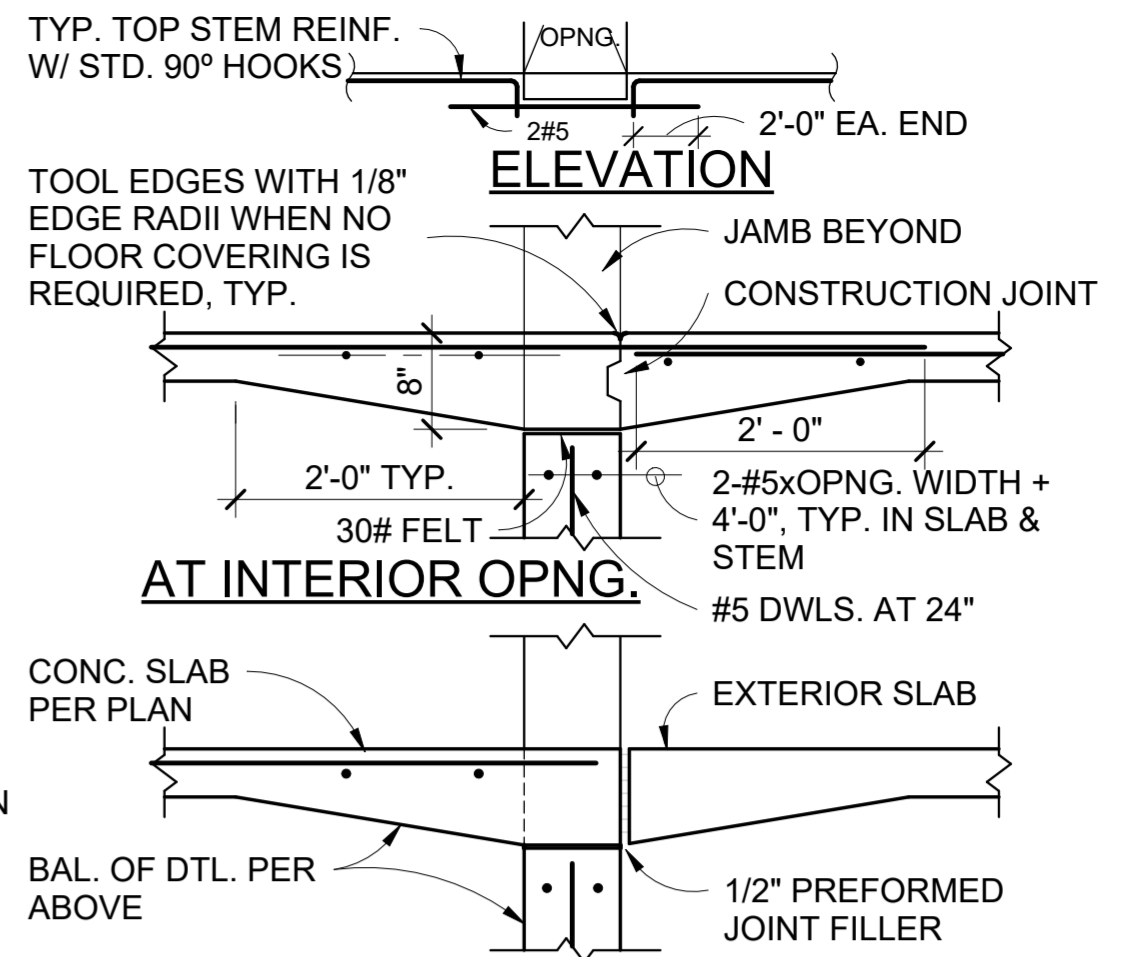
CONTRACTION JOINT (CTJ)



SPLICE DETAIL



CONTRACTION JOINT (CJ)



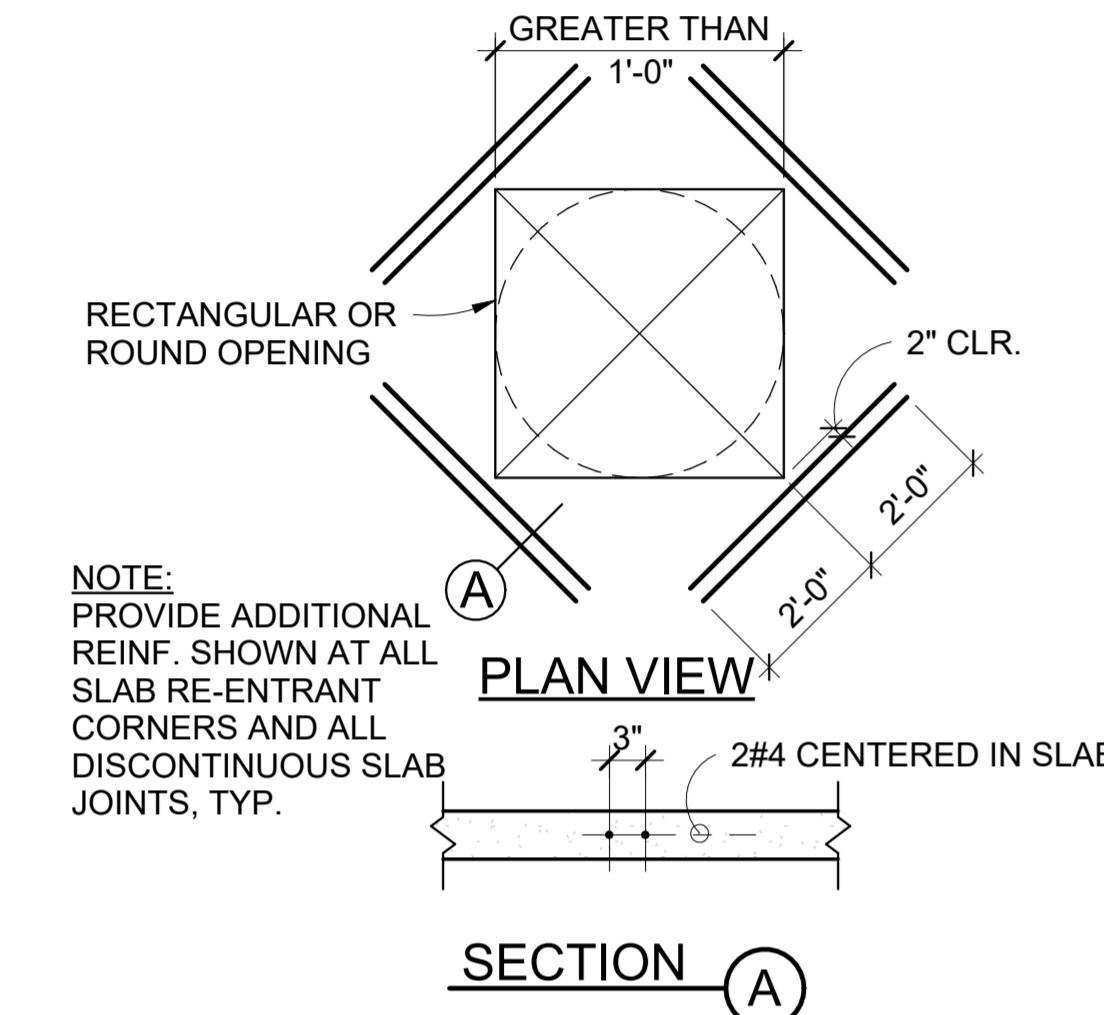
AT INTERIOR OPNG.

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

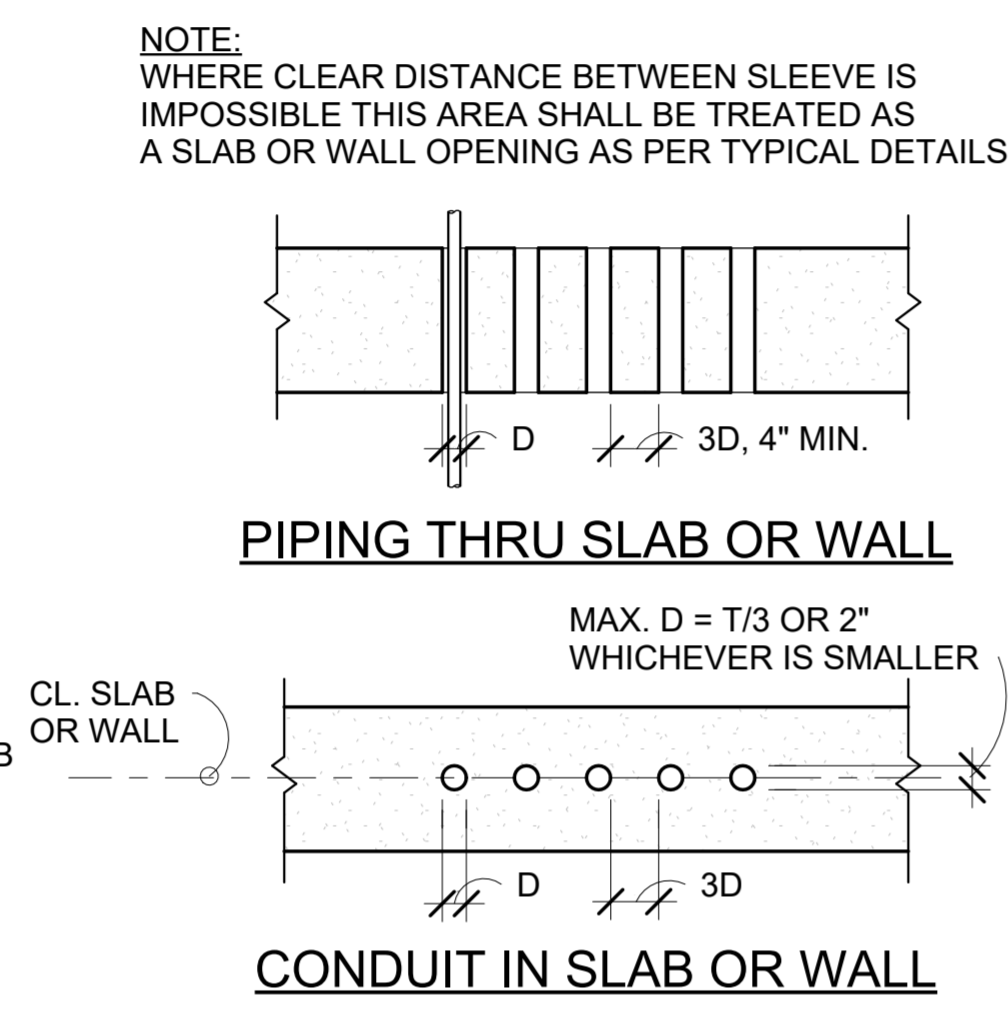
2 TYP. 5" SLAB ON GRADE
NO SCALE

3 TYP. JOINTS IN 5" SLAB
NO SCALE

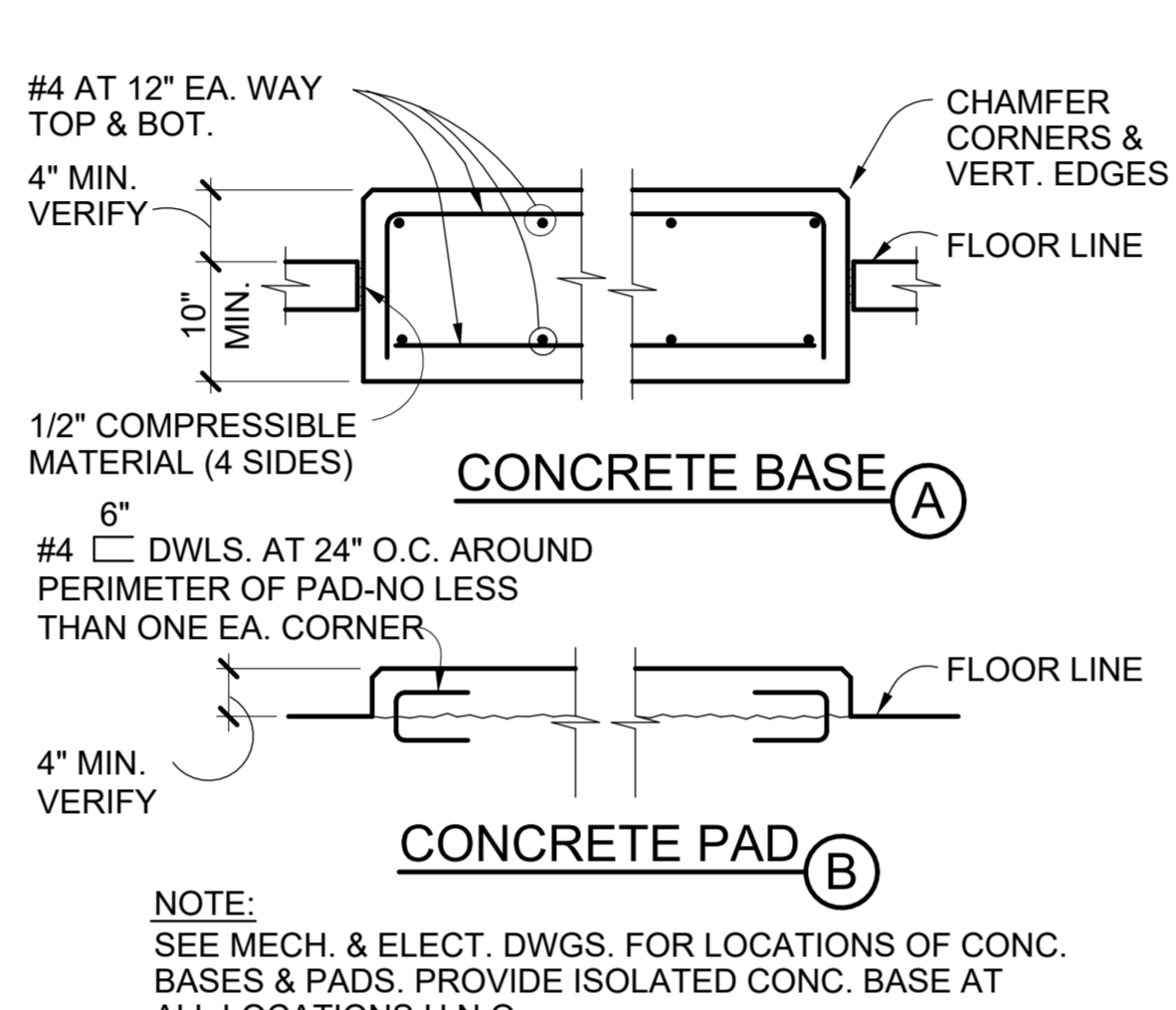
4 TYP SLAB SEPERATIONS
NO SCALE



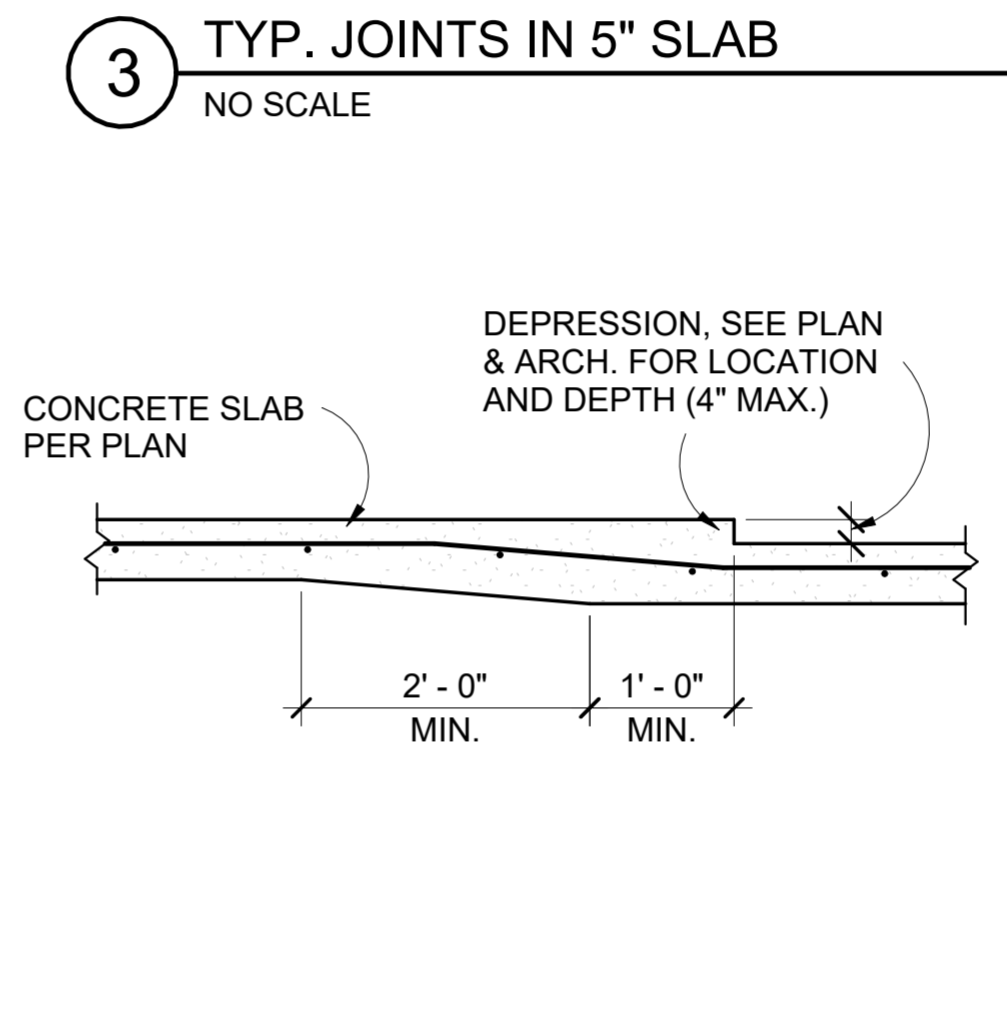
5 TYP. OPENING IN SLAB ON GRADE
NO SCALE



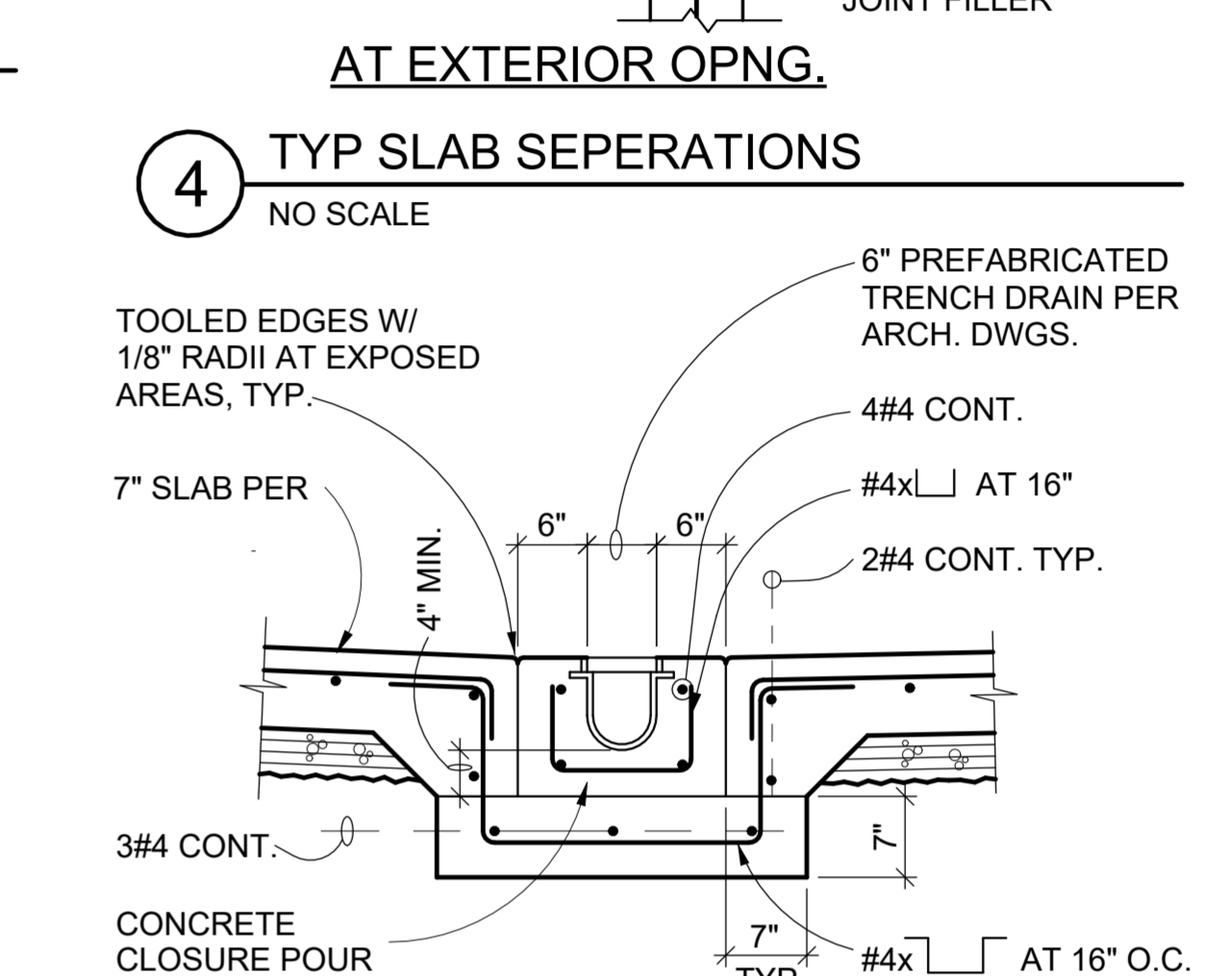
6 TYP. PIPING & CONDUIT DETAILS
NO SCALE



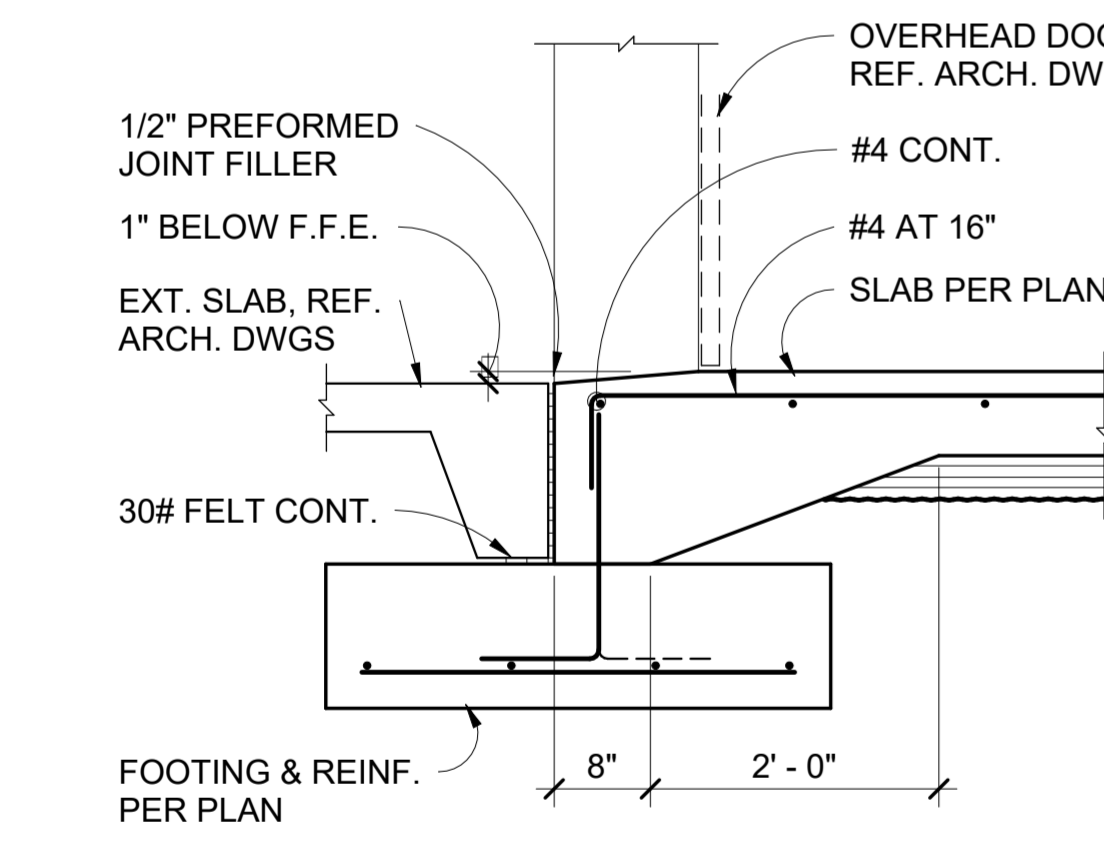
7 TYP. CONC. BASE & PAD FOR EQUIP.
NO SCALE



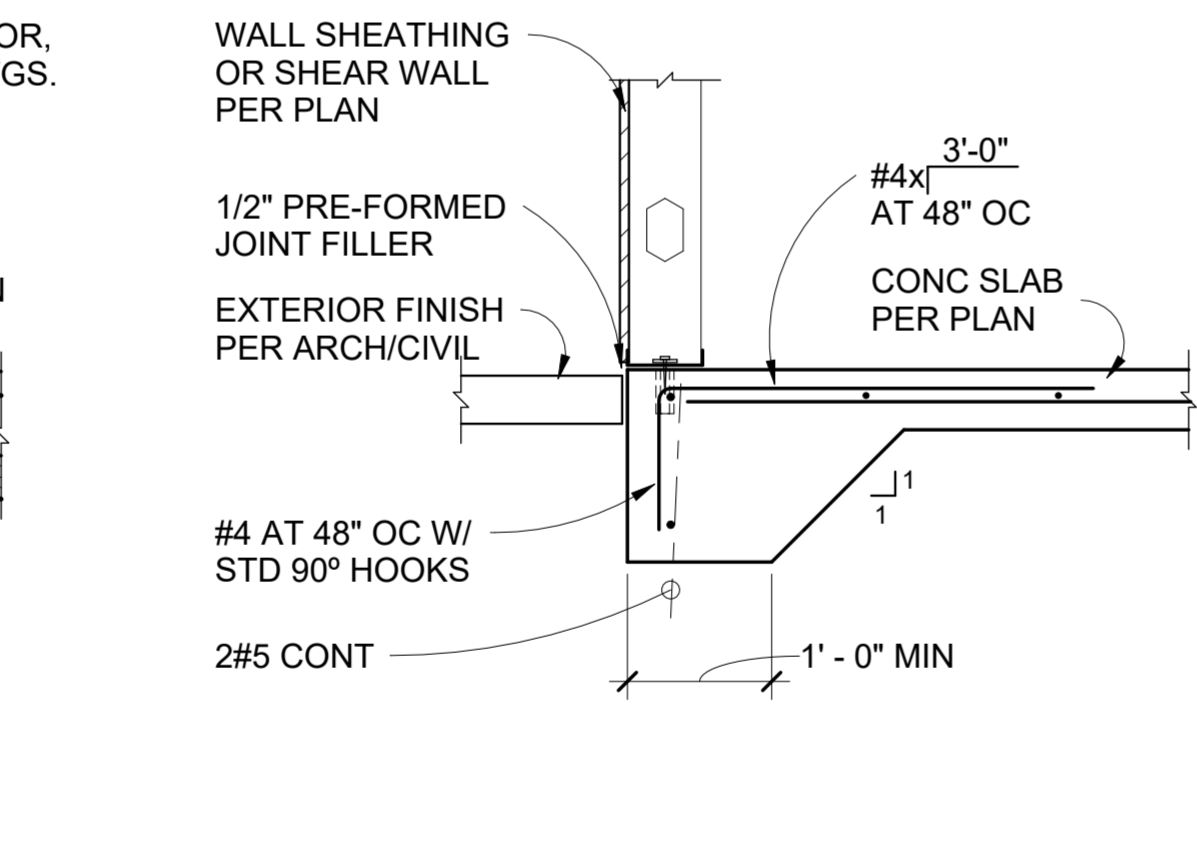
8 TYP. DEPRESSED SLAB
NO SCALE



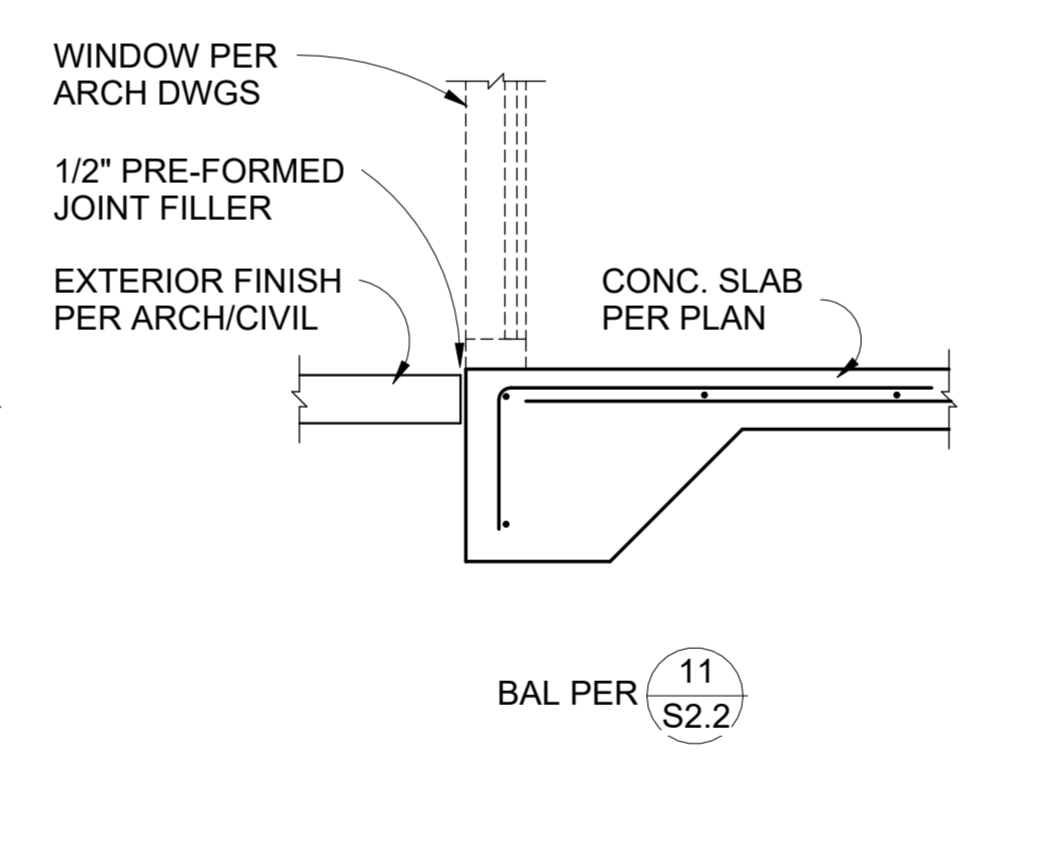
9 TRENCH DRAIN
3/4" = 1'-0"



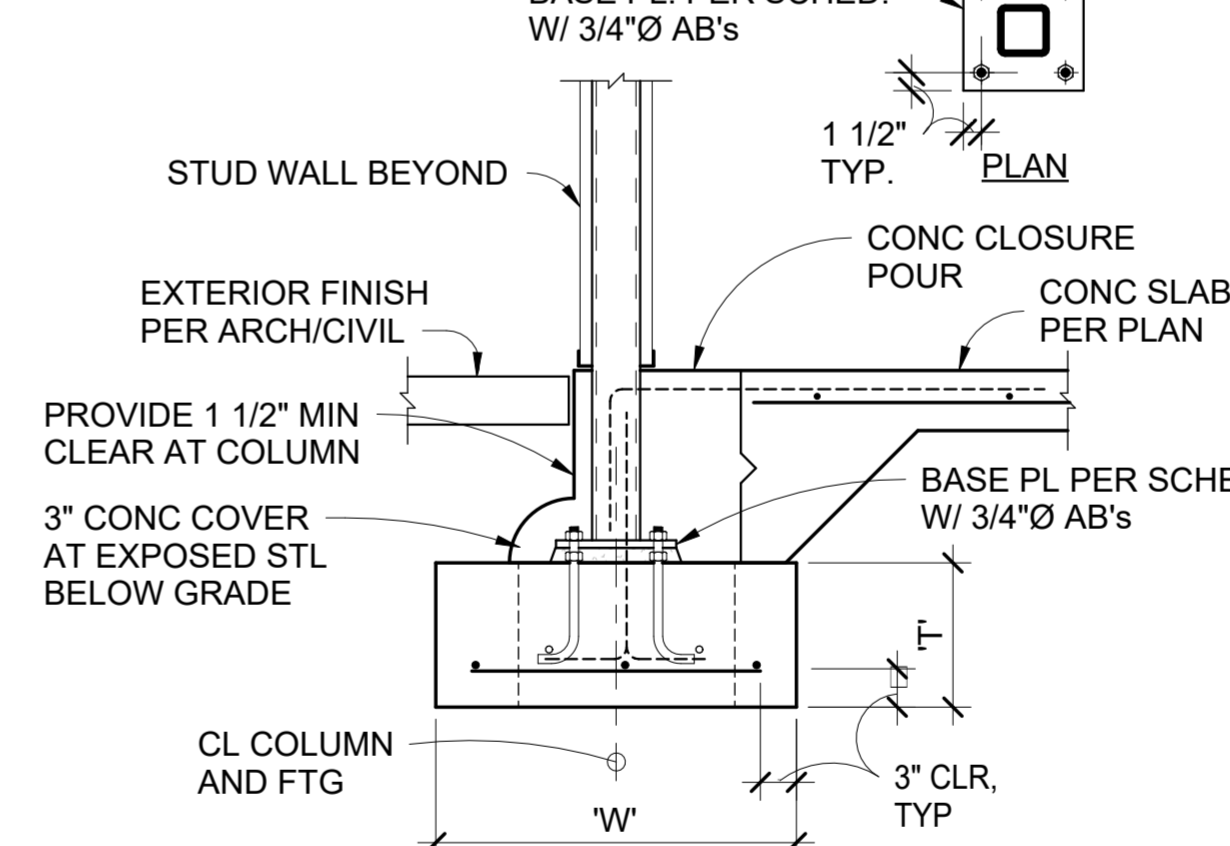
10 TYP. SLAB EDGE AT APPARATUS BAY DOOR
3/4" = 1'-0"



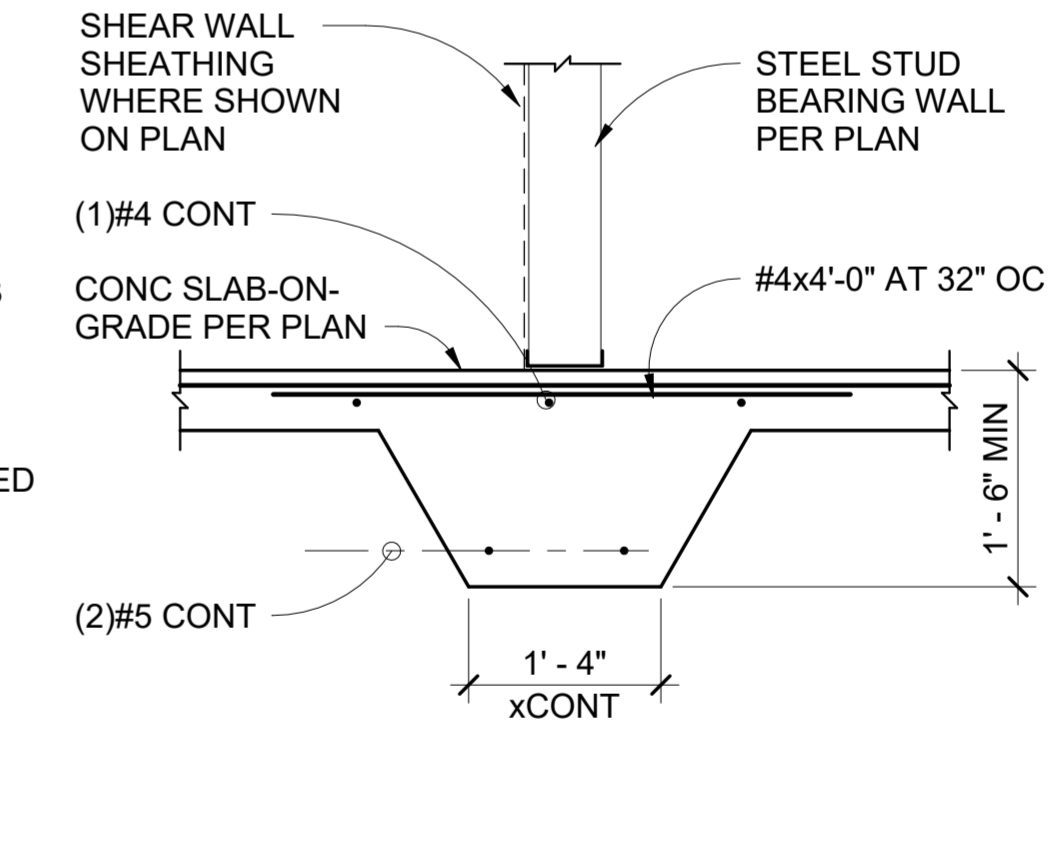
11 SLAB EDGE AT STEEL STUD WALL
3/4" = 1'-0"



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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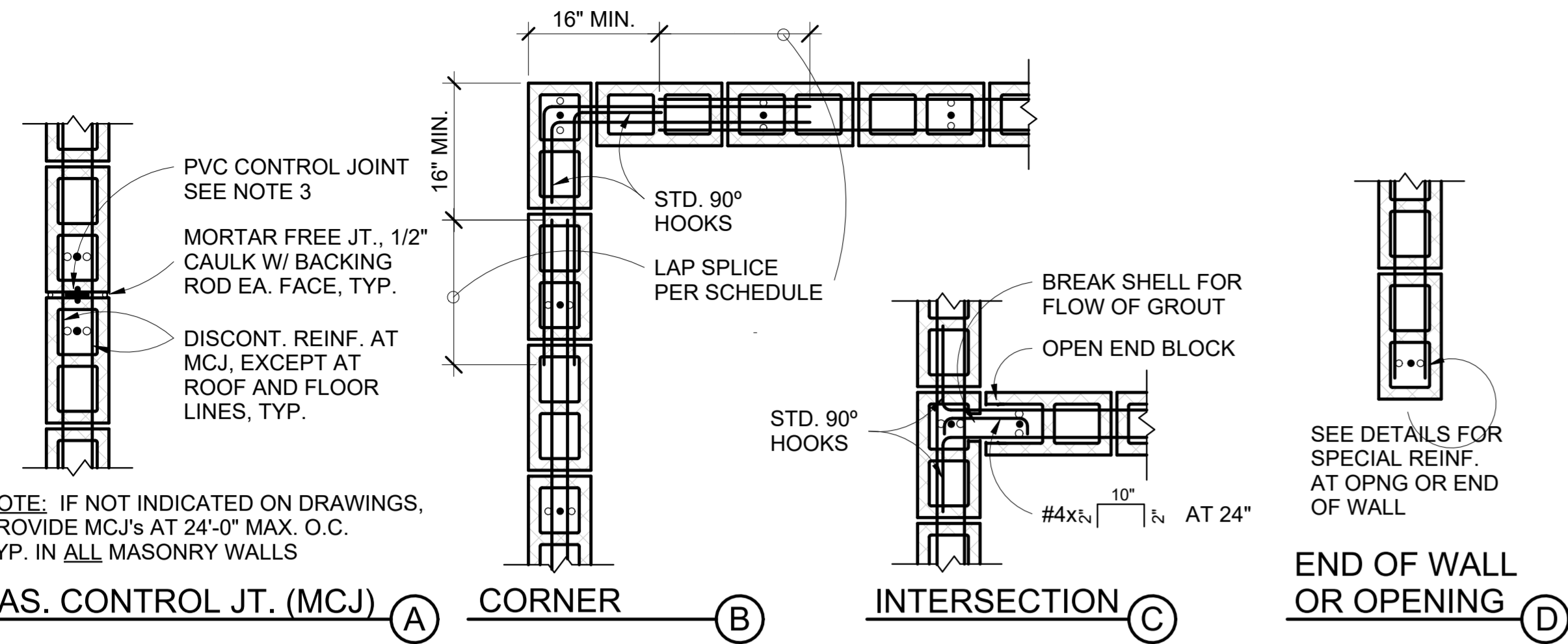
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Structural Details
S22

& MARTIN WHITE GRIFFIS
STRUCTURAL ENGINEERS, INC.

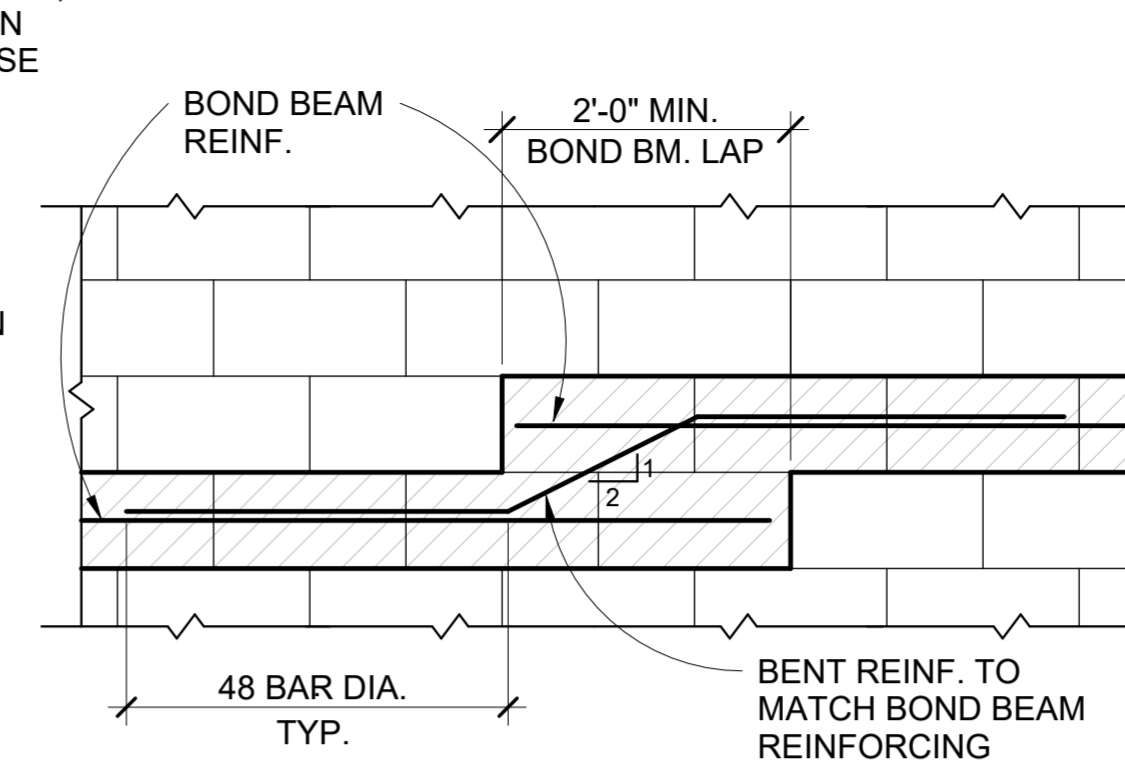
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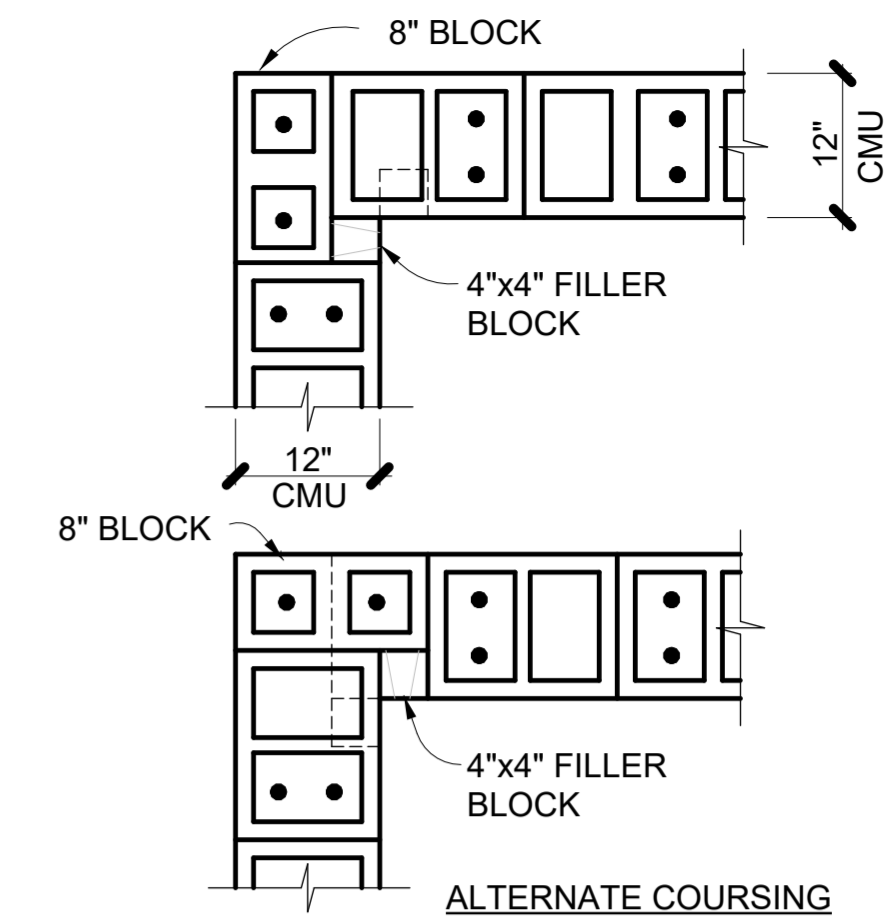
1 TYP MIN MASONRY REINF DETAILS
NO SCALE

NOTES:

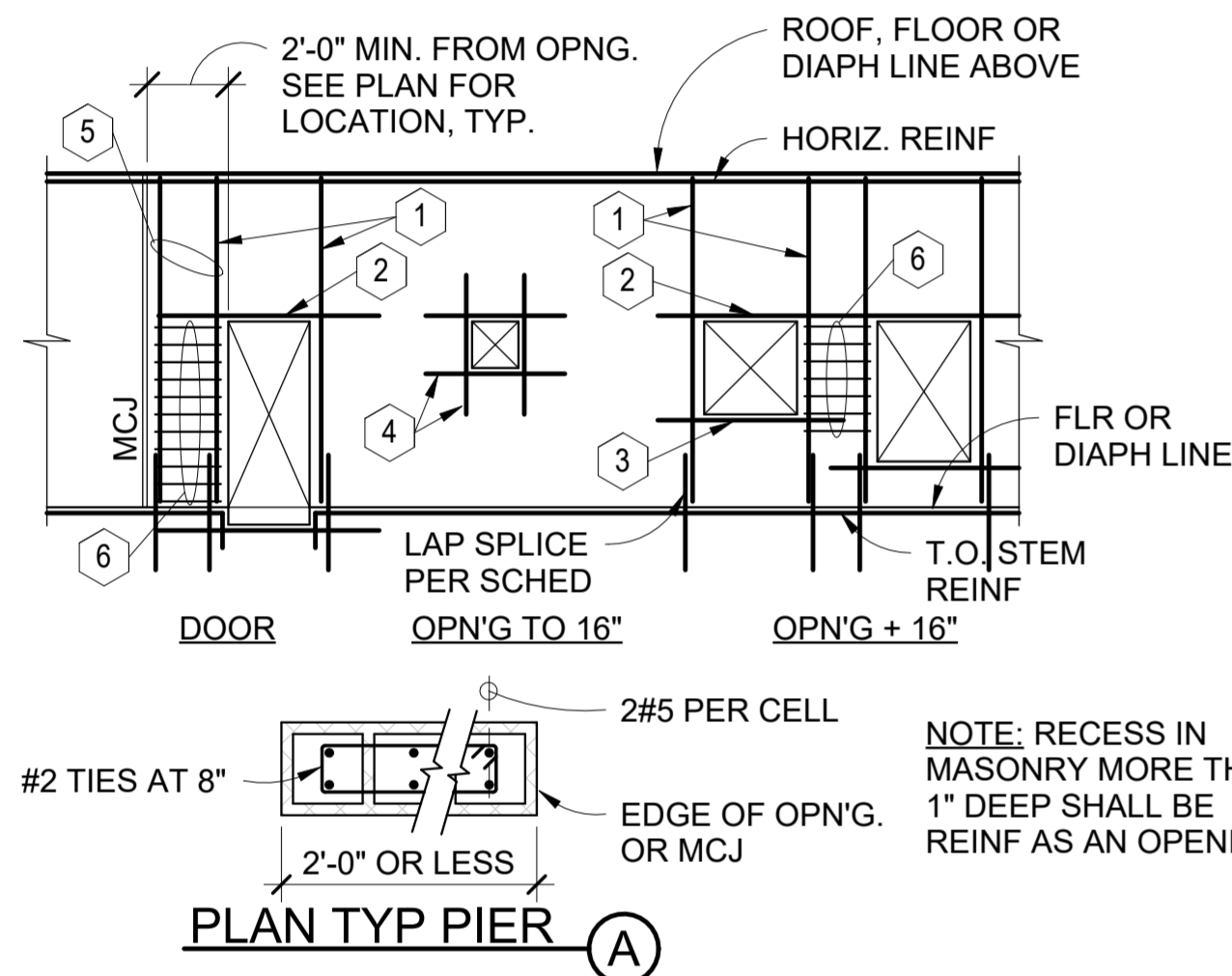
- WHERE VERT. OR HORIZ. BARS ARE SHOWN IN THIS DETAIL, PROVIDE BARS OF SAME SIZE AND DETAIL AS SHOWN ON DRAWINGS FOR WALLS. WHERE SIZE IS NOT SHOWN, USE AT LEAST #5 VERTS. AND #4 HORIZ.
- () INDICATES LOCATION OF VERT. BARS PLACED AT CENTERLINE OF WALL. (1BAR PER CELL). () INDICATES LOCATION OF VERT. 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.)

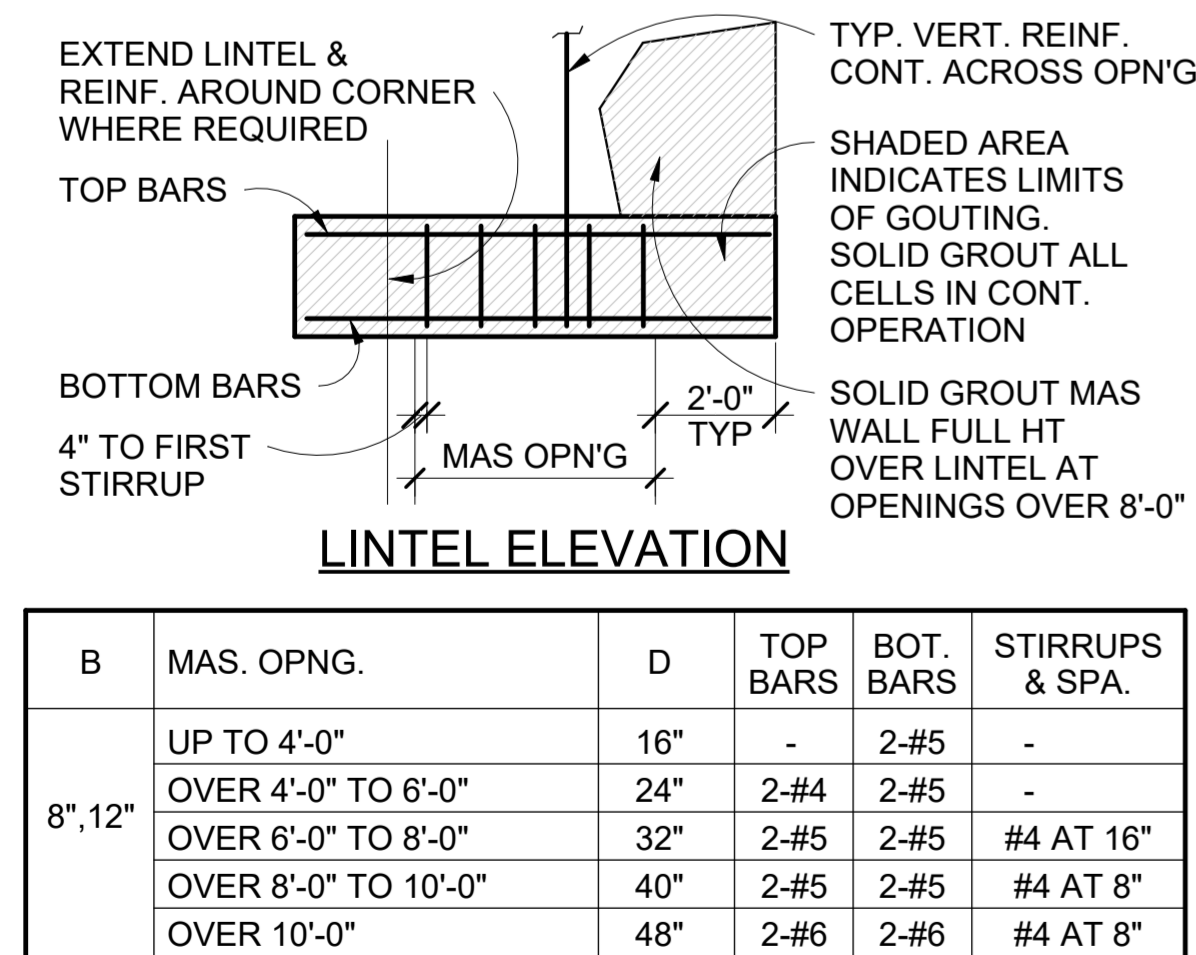
BAR SIZE	LAP SPLICE LENGTH IN INCHES	
	8" CMU	12" CMU
#4	24	
#5	30	
#6	36	

- 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.

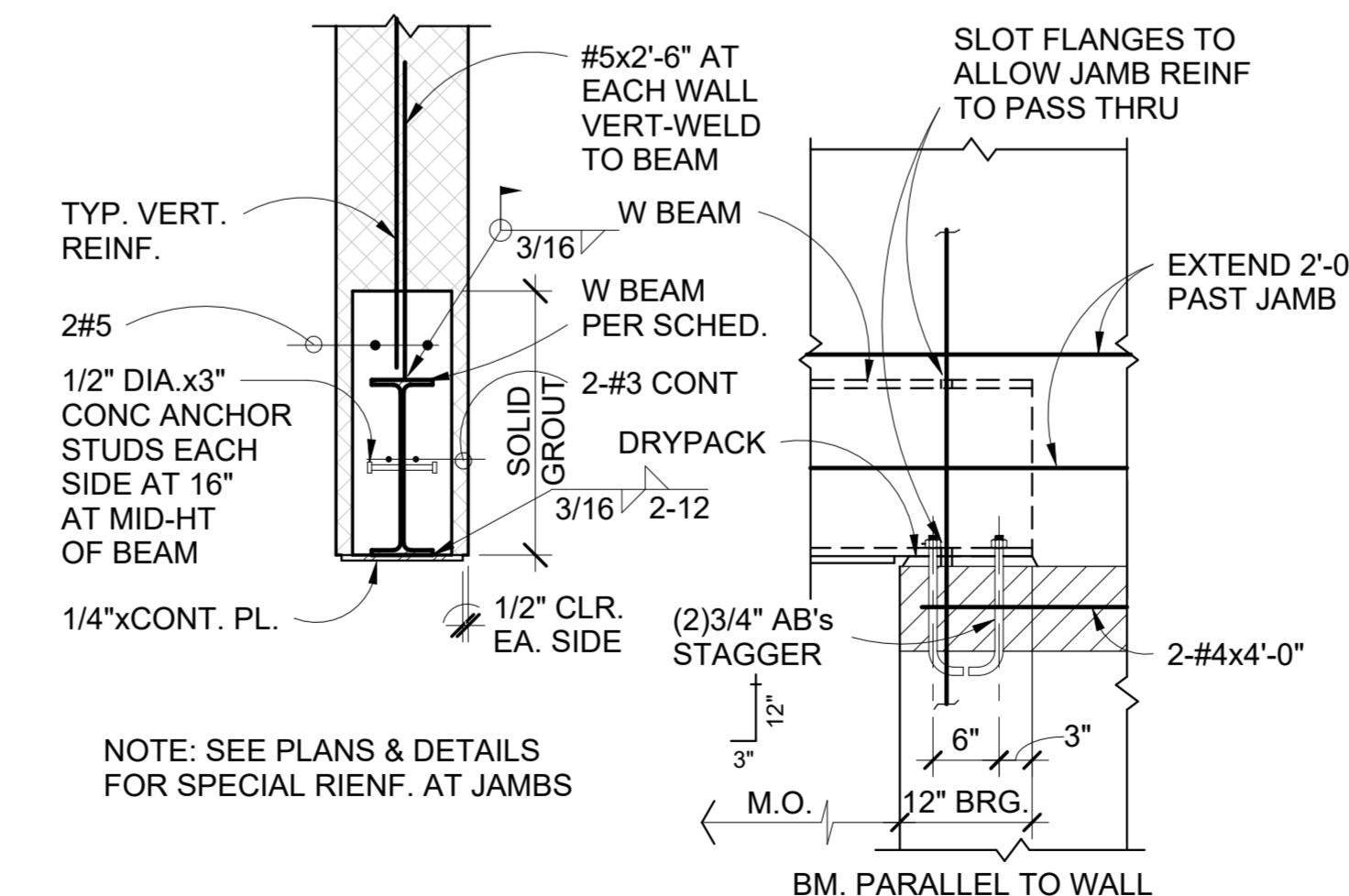
PROVIDE THE ABOVE SCHEDULED MINIMUM WALL REINFORCING IN ALL MASONRY UNLESS SPECIFICALLY NOTED OR DETAILED OTHERWISE ON THE DRAWINGS.
 8" CMU: MW1
 12" CMU: MW2

6 MASONRY WALL REINF SCHED
NO SCALE

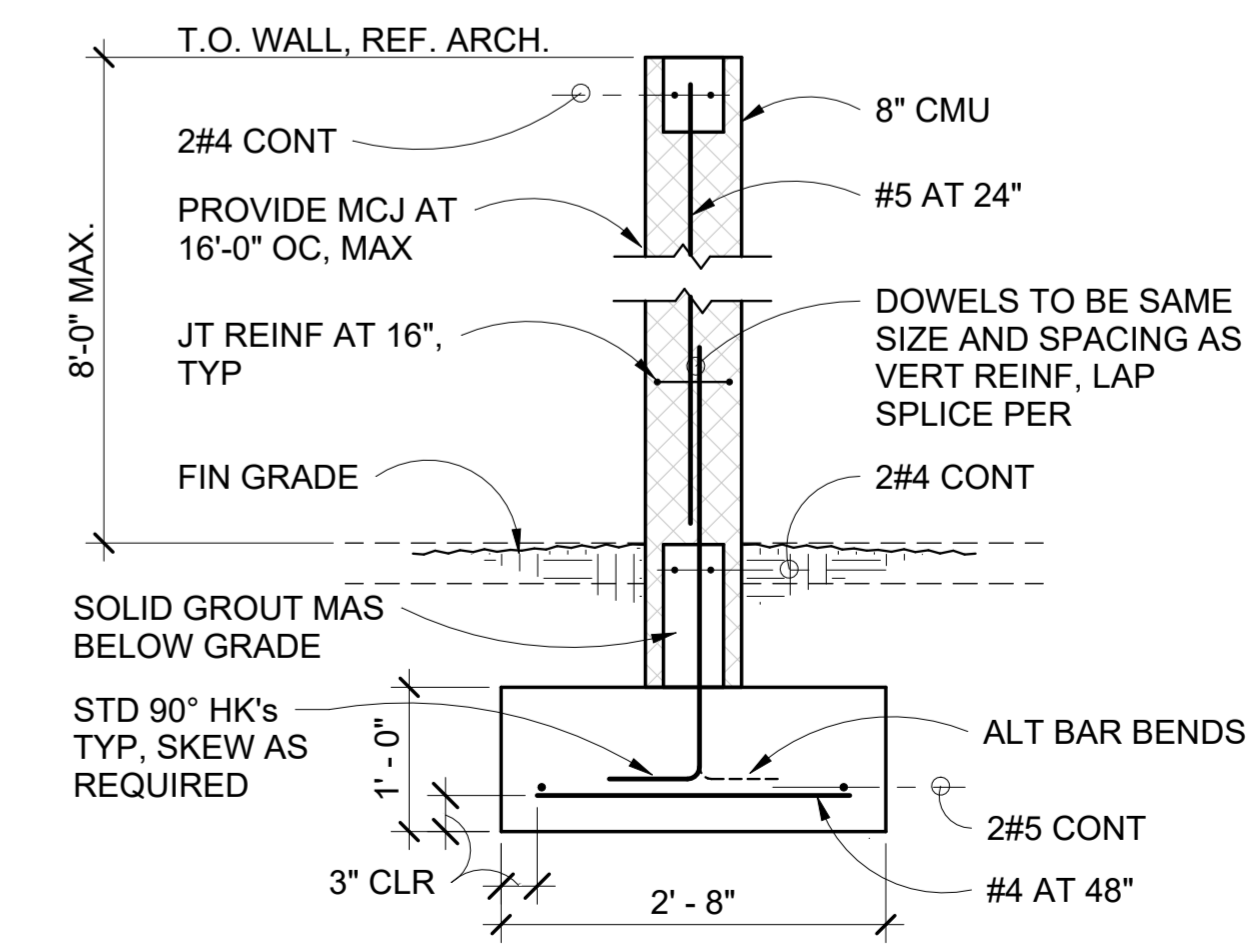


B	MAS. OPNG.	D	TOP BARS	BOT. BARS	STIRRUPS & SPA.
	UP TO 4'-0"	16"	-	2-#5	-
	OVER 4'-0" TO 6'-0"	24"	2-#4	2-#5	-
8", 12"	OVER 6'-0" TO 8'-0"	32"	2-#5	2-#5	#4 AT 16"
	OVER 8'-0" TO 10'-0"	40"	2-#5	2-#5	#4 AT 8"
	OVER 10'-0"	48"	2-#6	2-#6	#4 AT 8"

7 TYP LINTEL REINF. IN CMU WALLS
NO SCALE



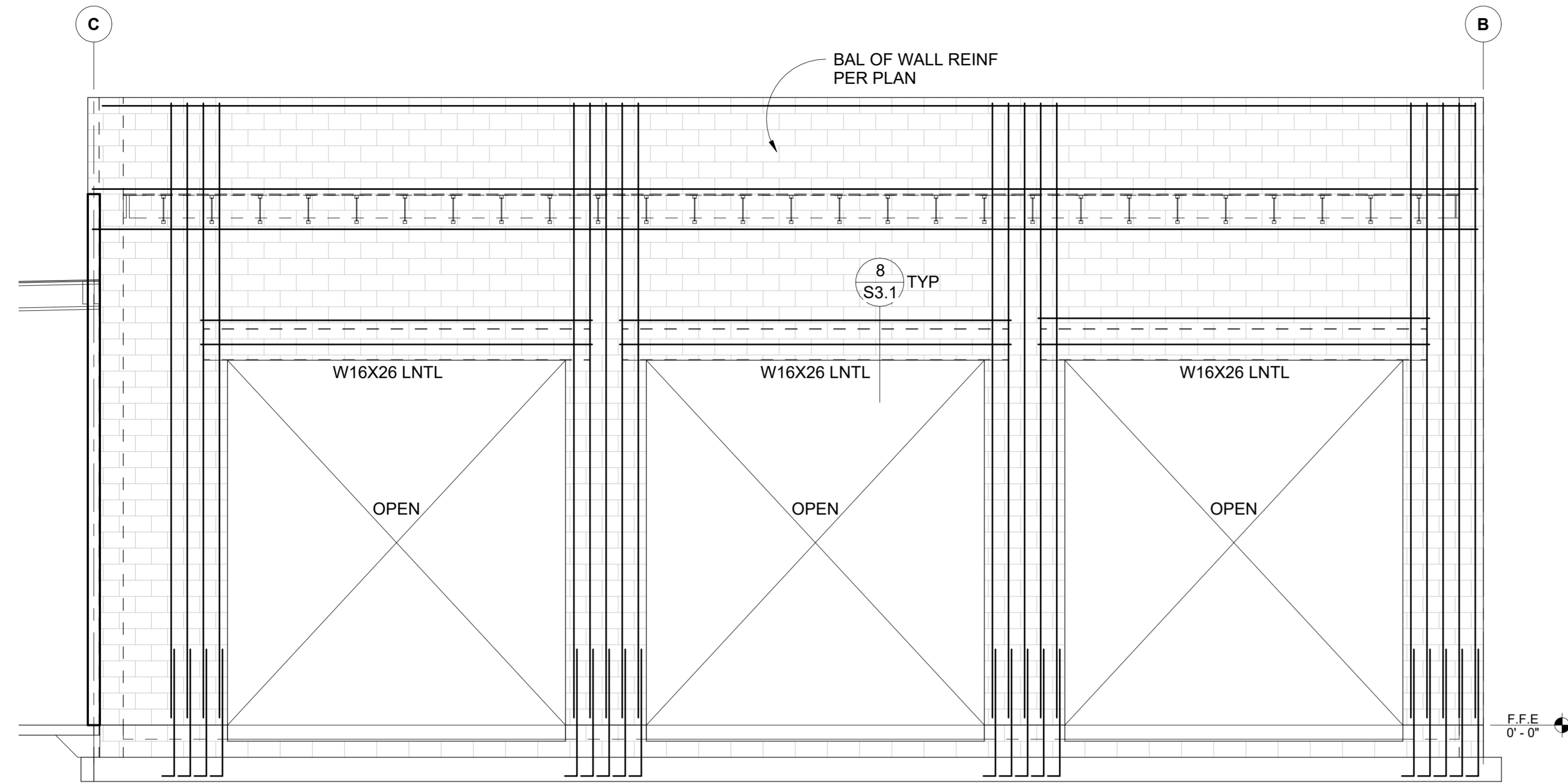
8 STEEL LINTEL IN CMU WALL
NO SCALE



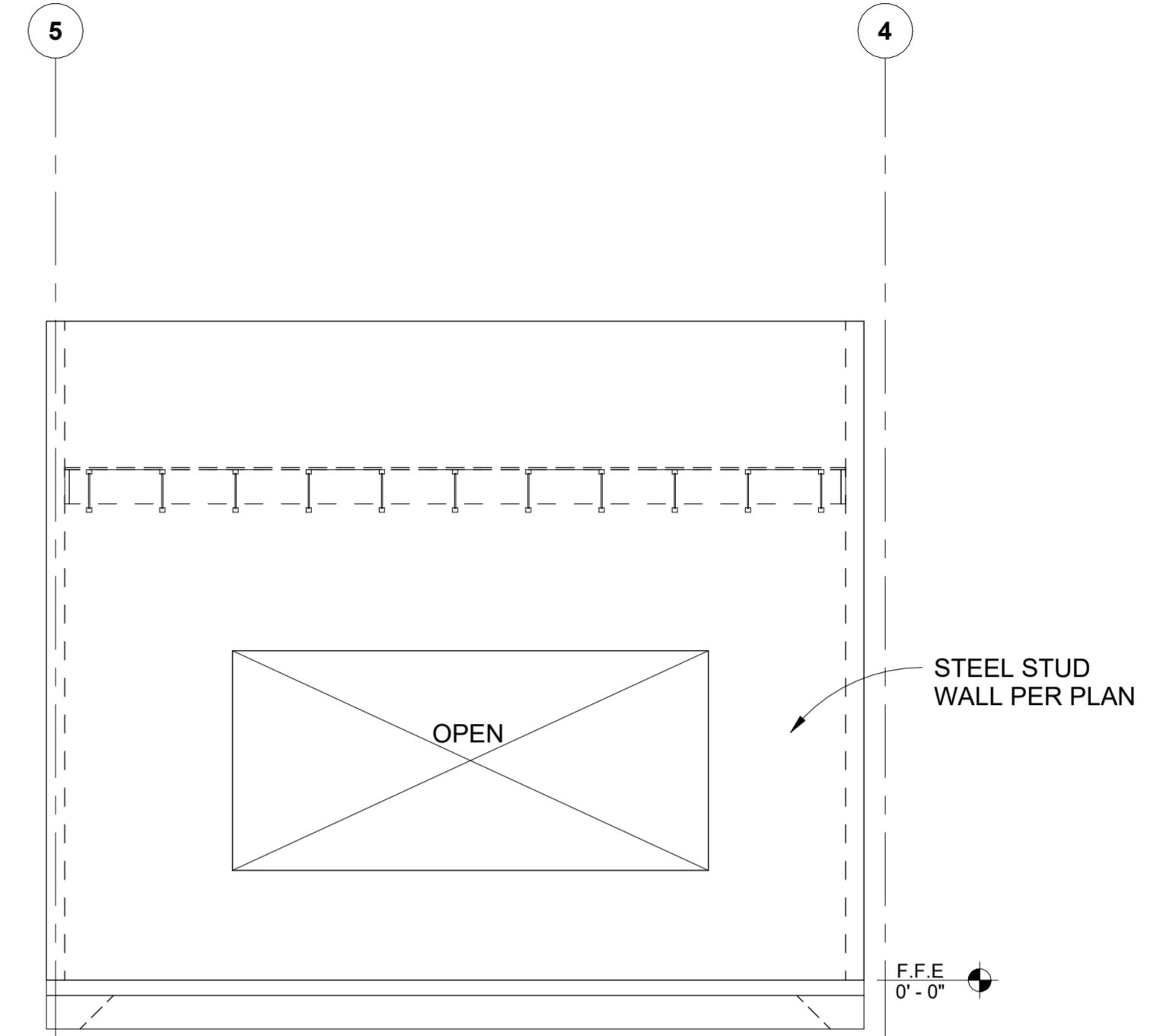
9 TYP CMU SCREEN WALL
3/4" = 1'-0"

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DATE: June 28, 2024
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1 STRUCTURAL CMU WALL ELEVATION
1/4" = 1'-0"



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

Breckenridge
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p l a n n e r s

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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

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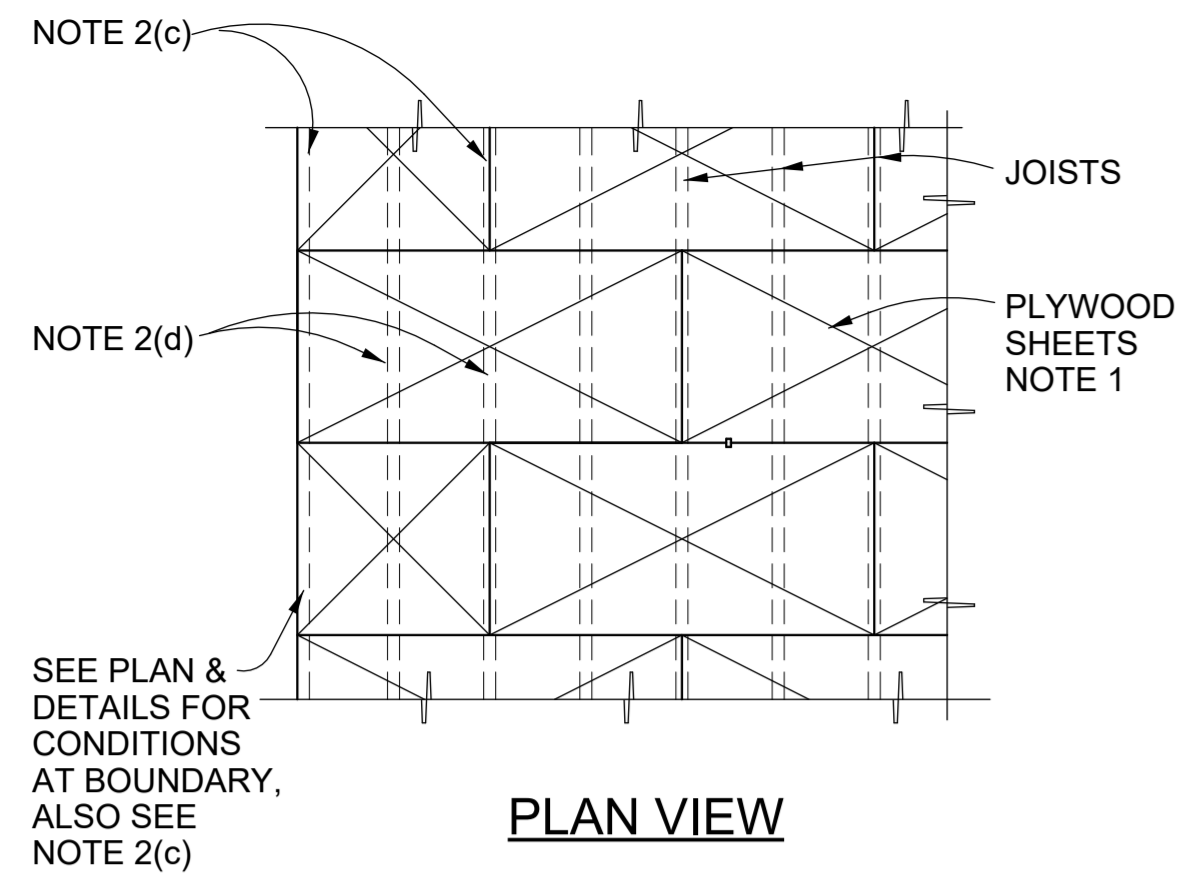
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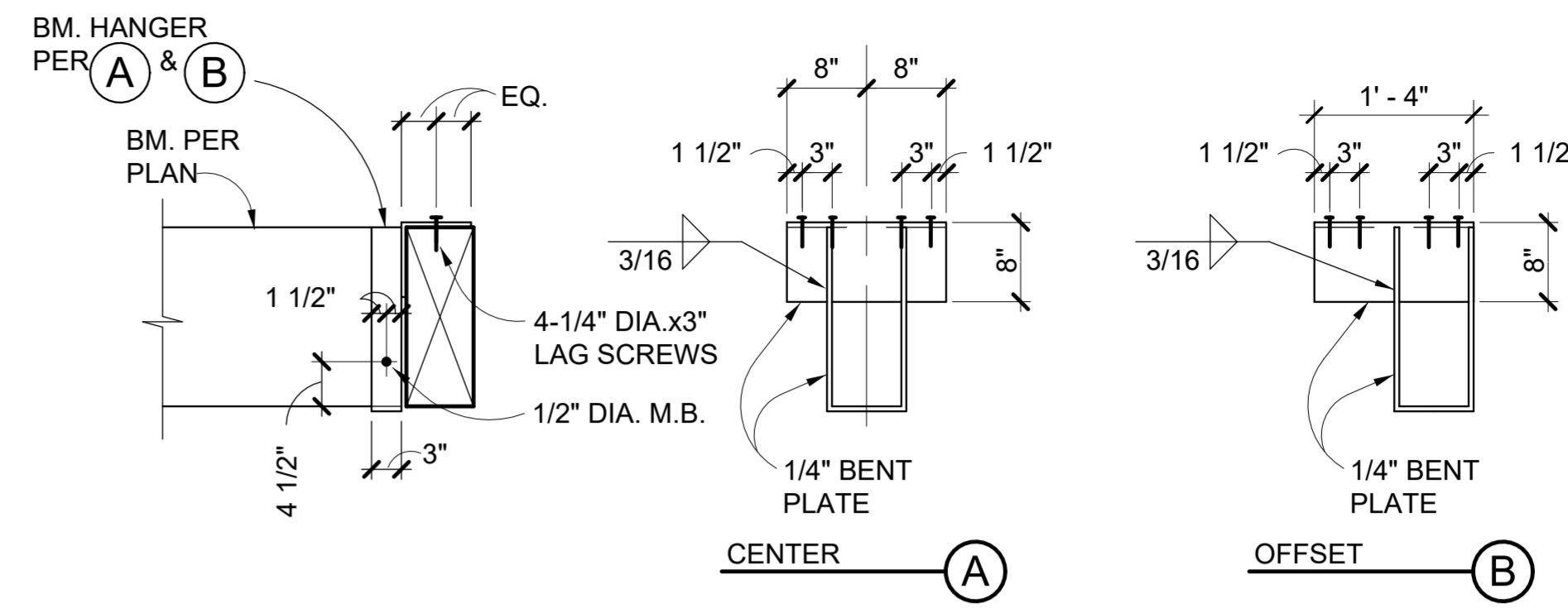
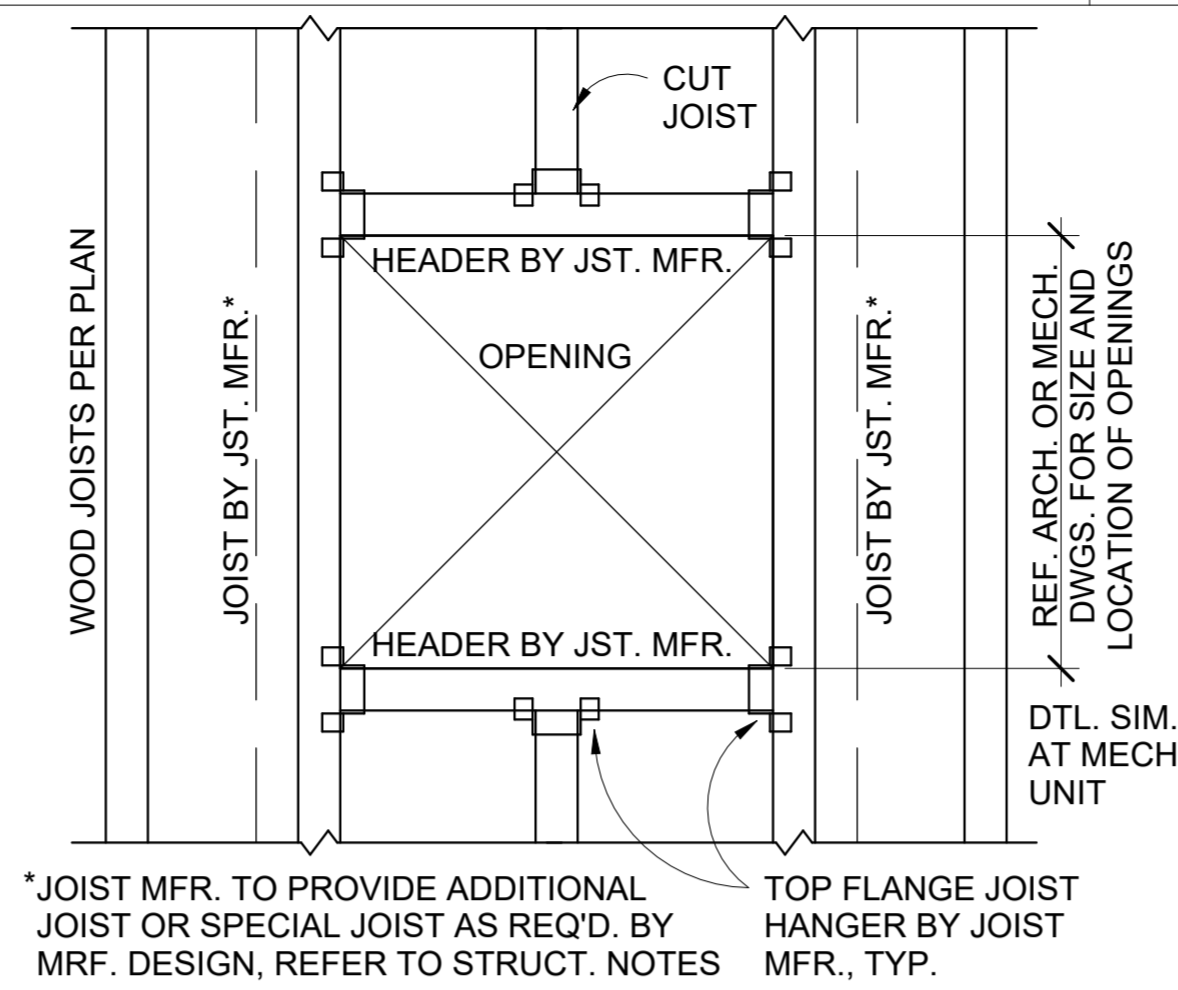
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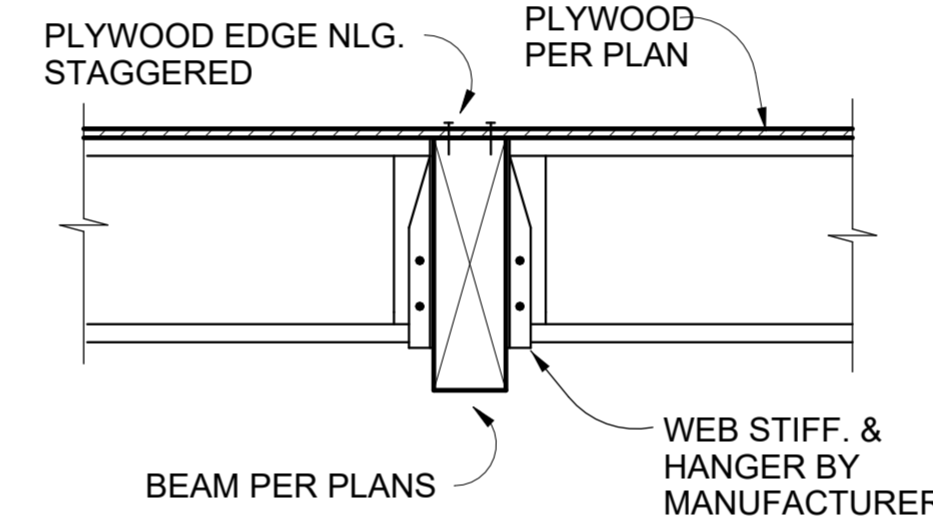
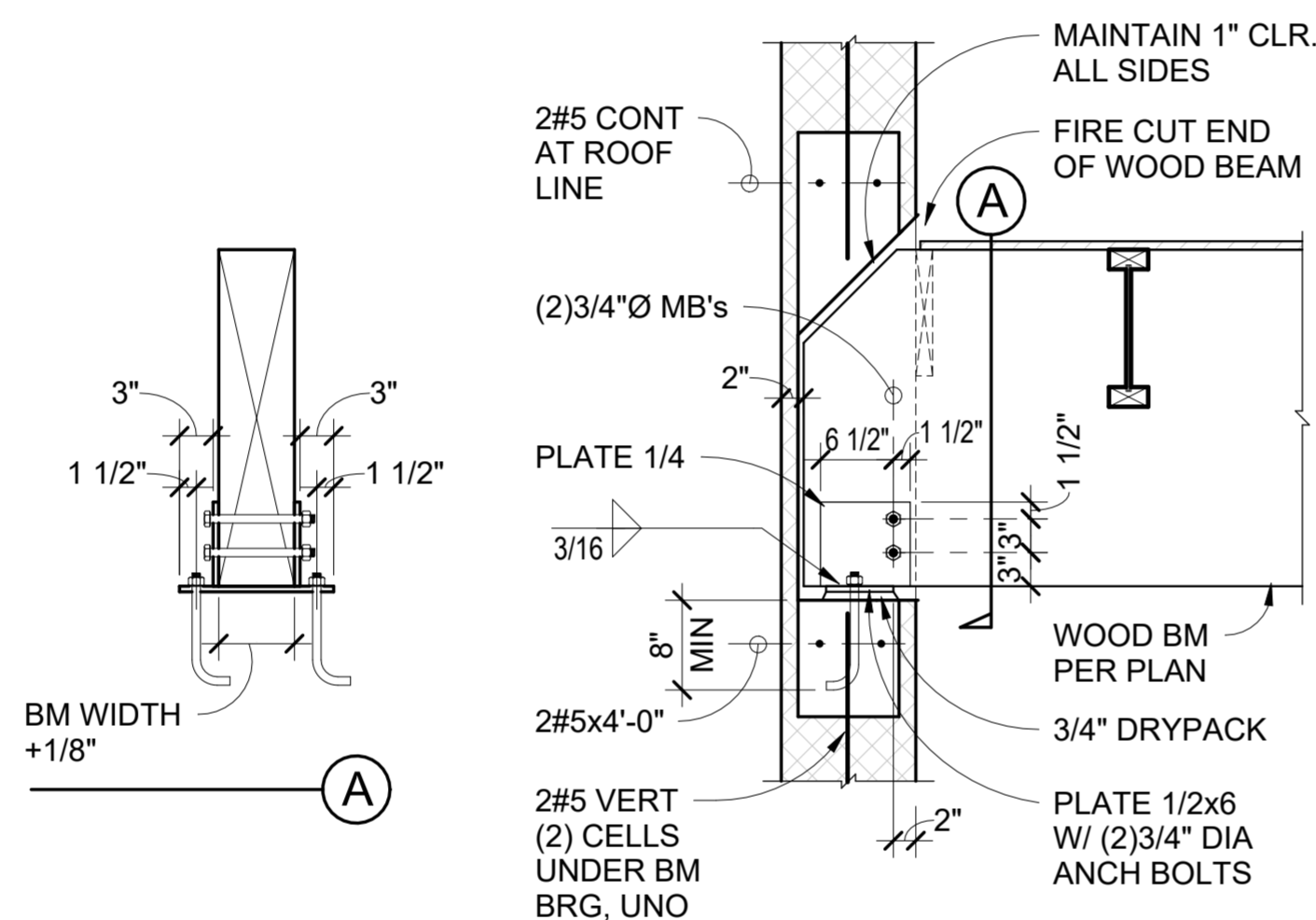
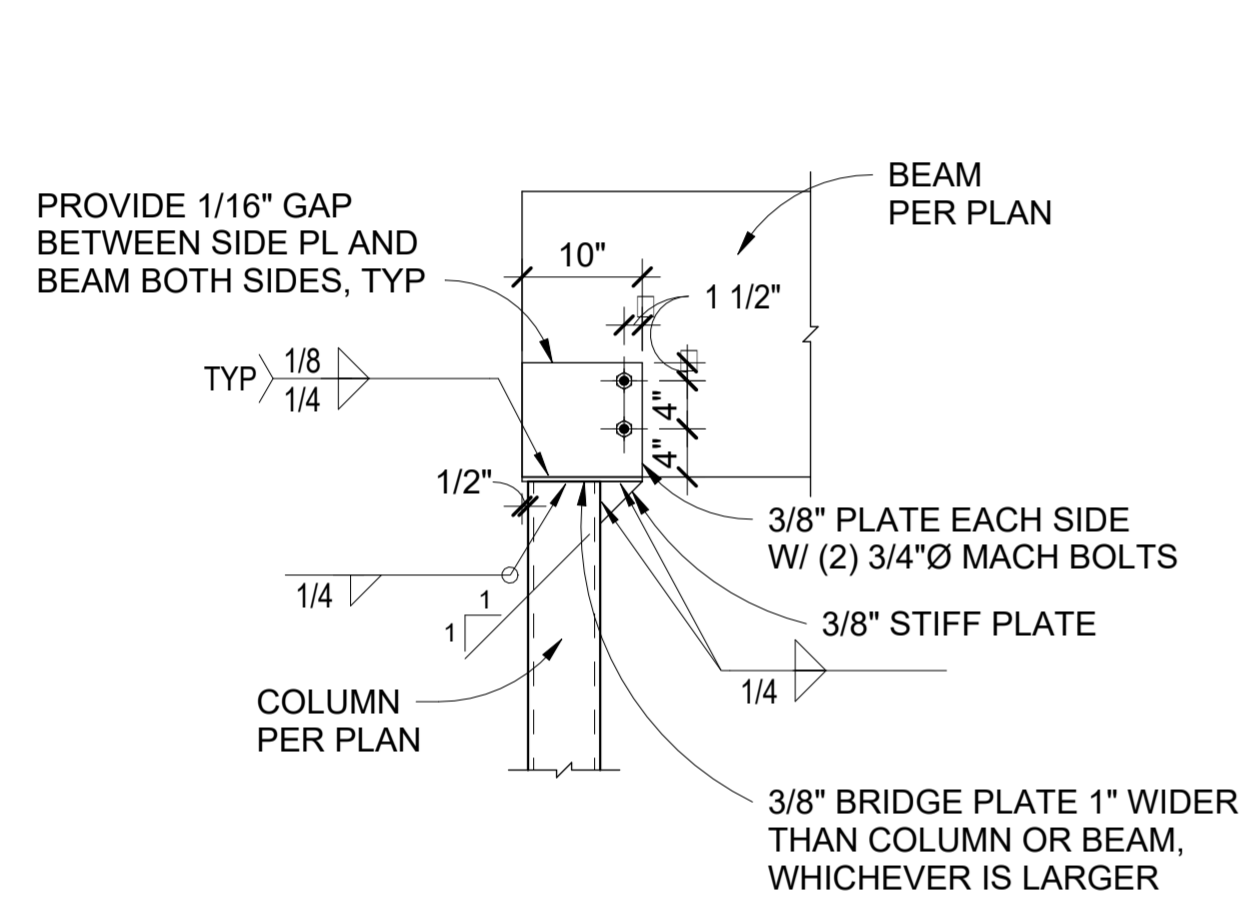
- NOTES:**
- PLYWOOD
 - 5/8" 5-PLY APA RATED SHEATHING: EXPOSURE 1 CLASSIFICATION PANEL GRADE STRUCTURAL 1, C-C EXTERIOR EXPOSURE SPAN RATING: 24'
 - STAGGER SHEETS AS SHOWN.
 - RUN FACE GRAIN PERPENDICULAR TO SUPPORTS.
 - MINIMUM SHEET SIZE SHALL BE 2'-0"x4'-0".
 - ATTACHMENT:
 - SCREWS SHALL BE SELF 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.



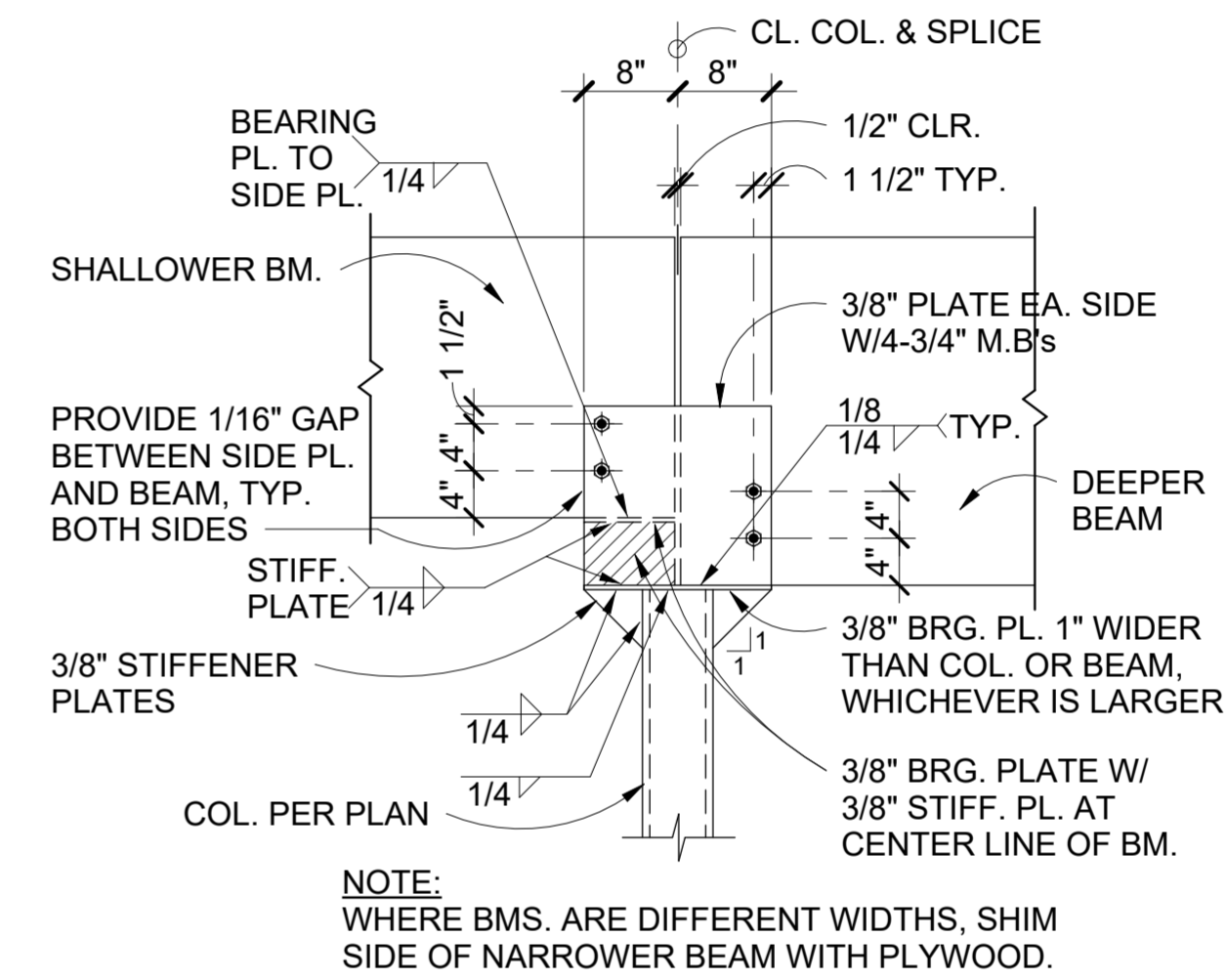
1 TYP. HORIZONTAL PLYWOOD ROOF SHEATHING
NO SCALE

2 TYP WOOD JOIST FRAMING AT OPENING
NO SCALE

3 TYP. BEAM TO BEAM CONN.
NO SCALE



TYP. 2x JST. BRG. TYP. TJI JST. BRG.

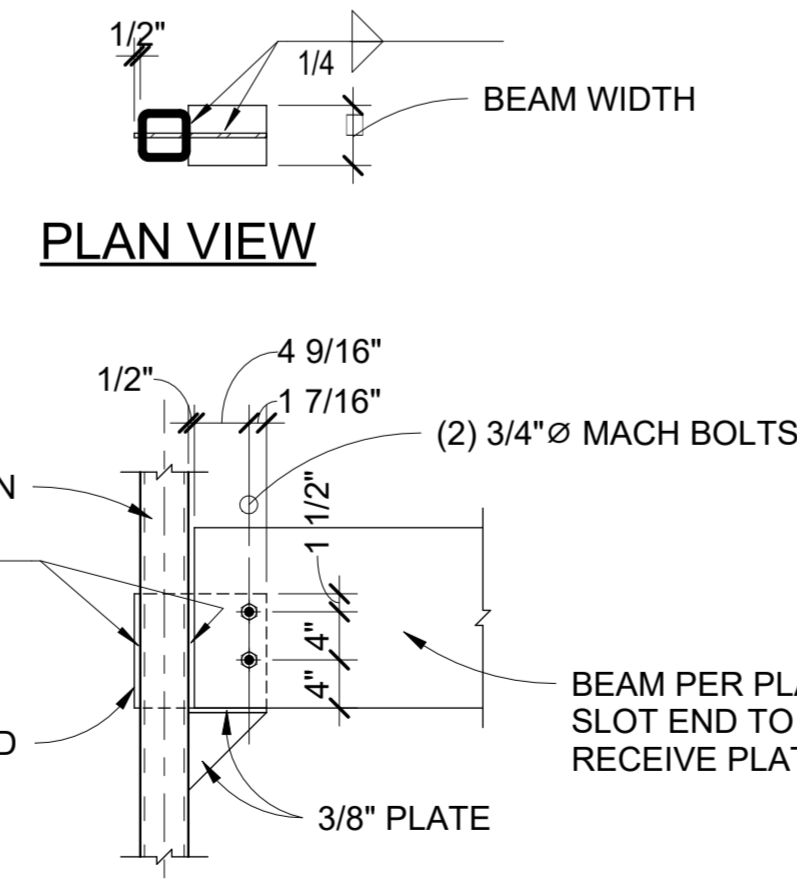
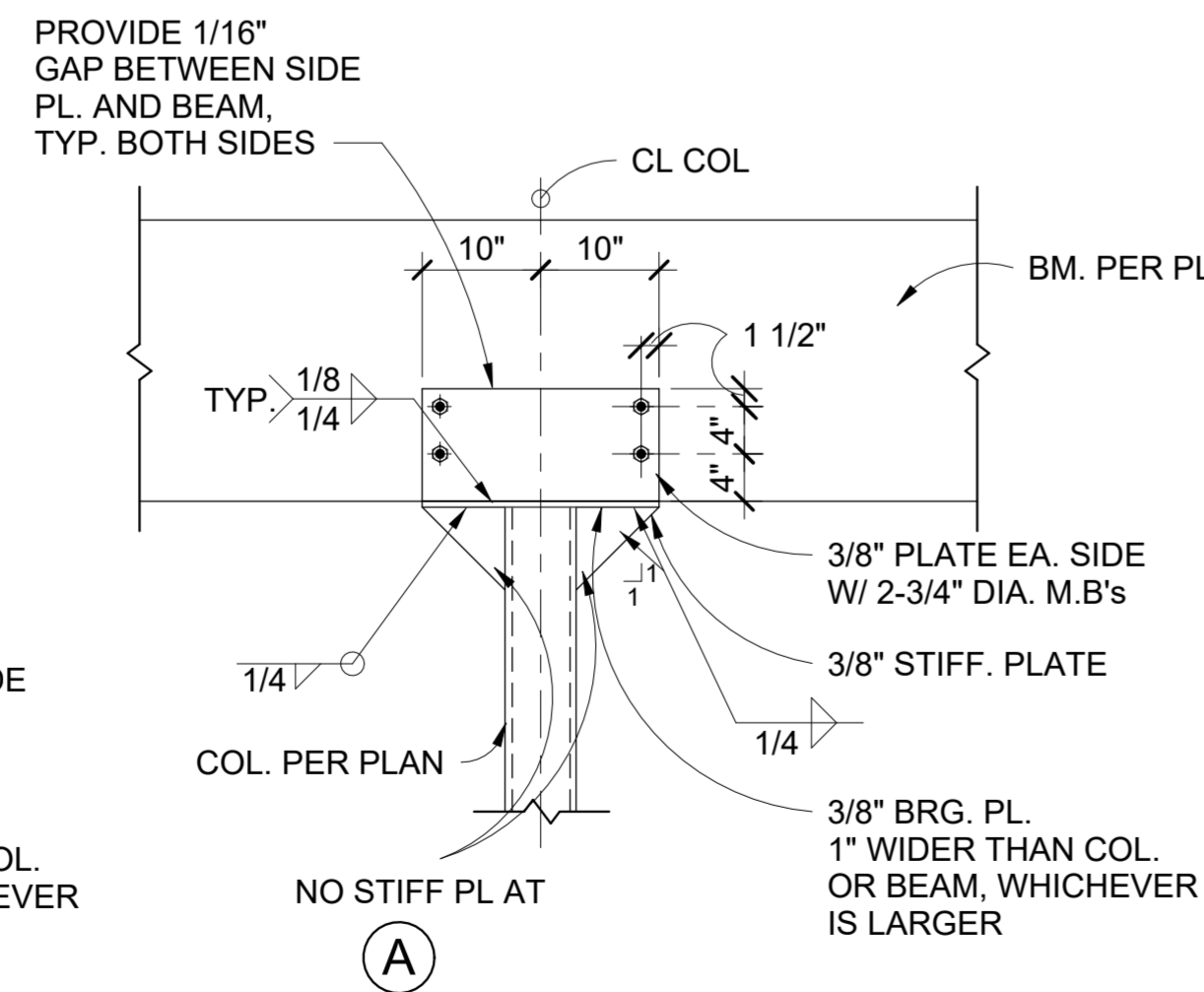
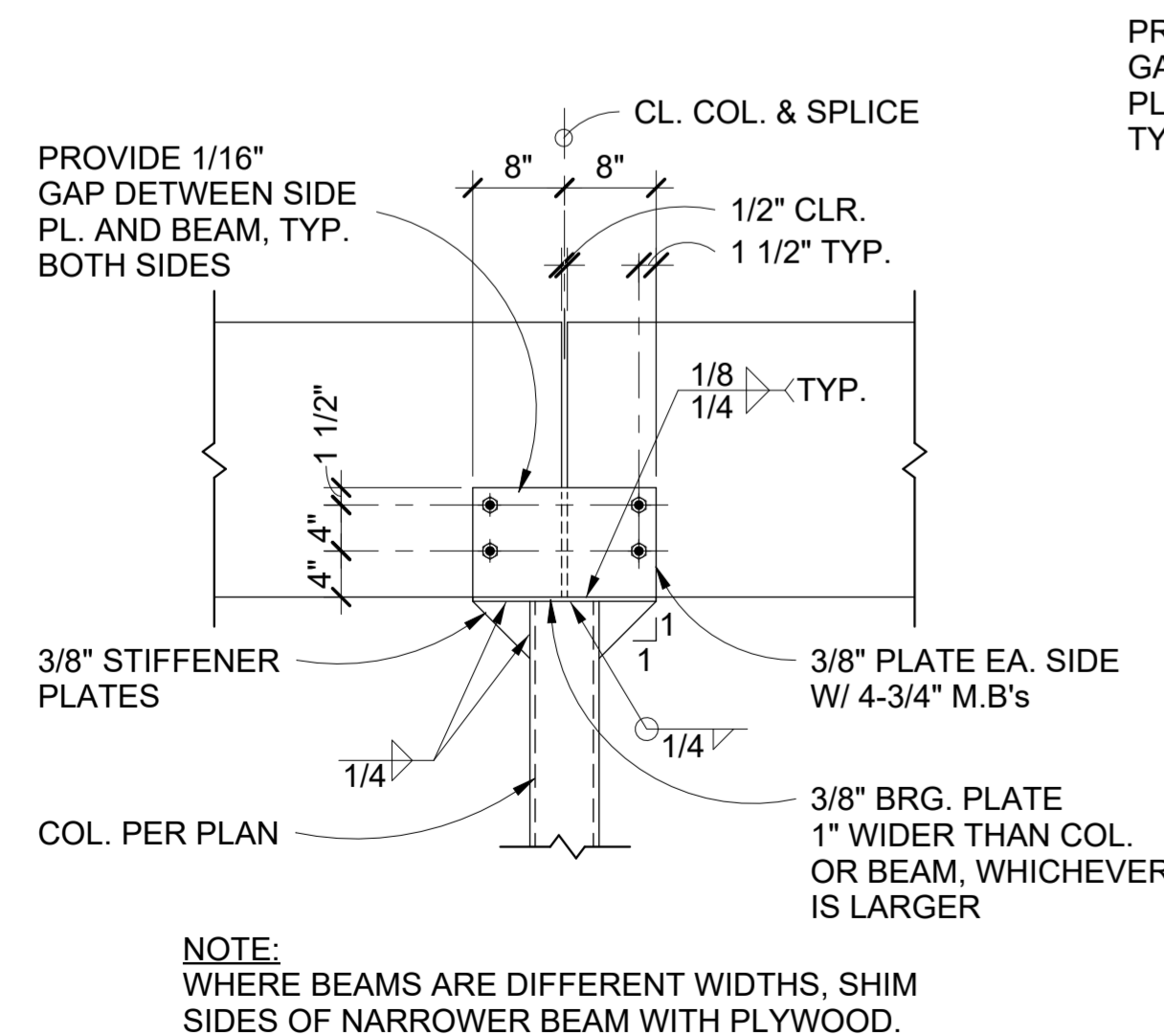


4 TYP END WD BM TO STEEL COL SADDLE
3/4" = 1'-0"

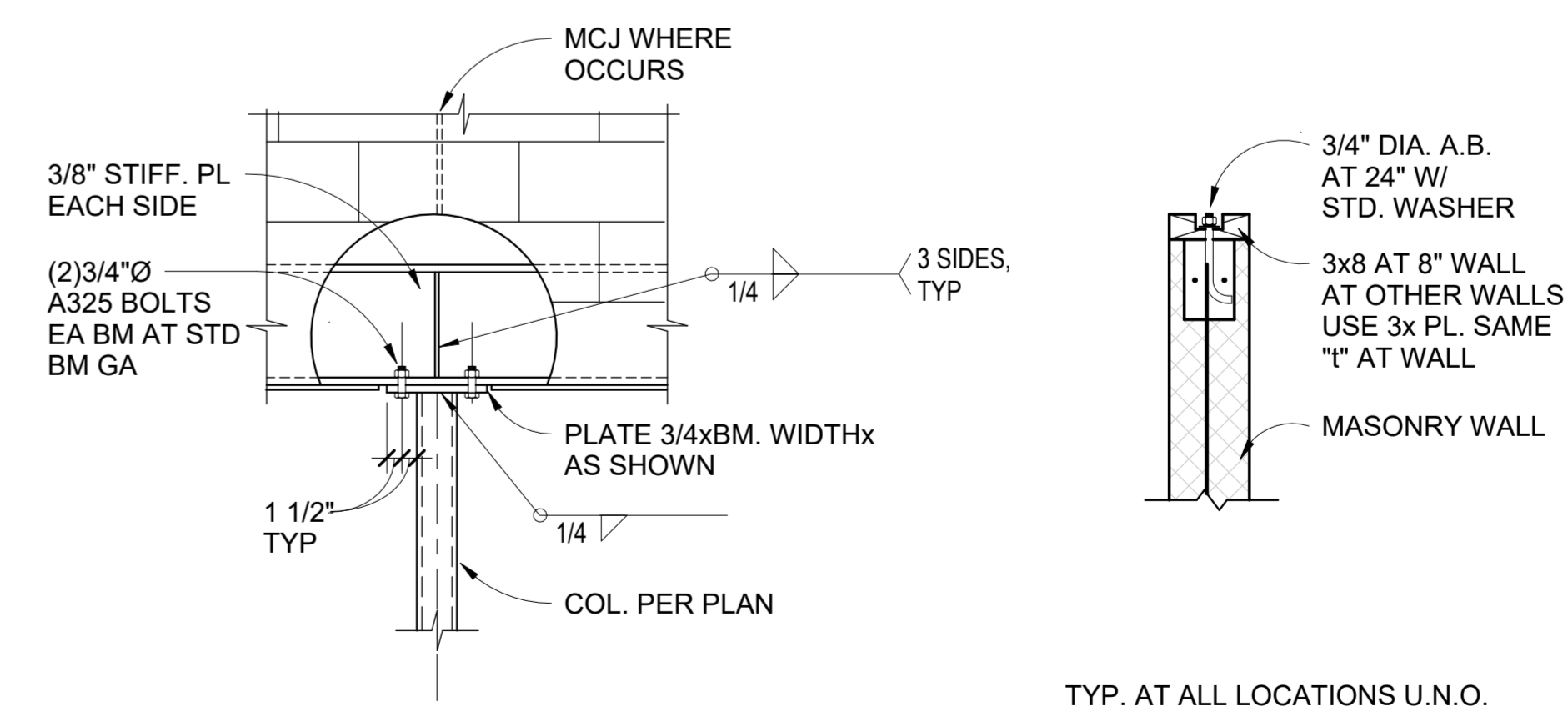
5 WOOD BM BEARING AT MAS WALL
3/4" = 1'-0"

6 TYP WOOD JOIST AT BEAM CONN
NO SCALE

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



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

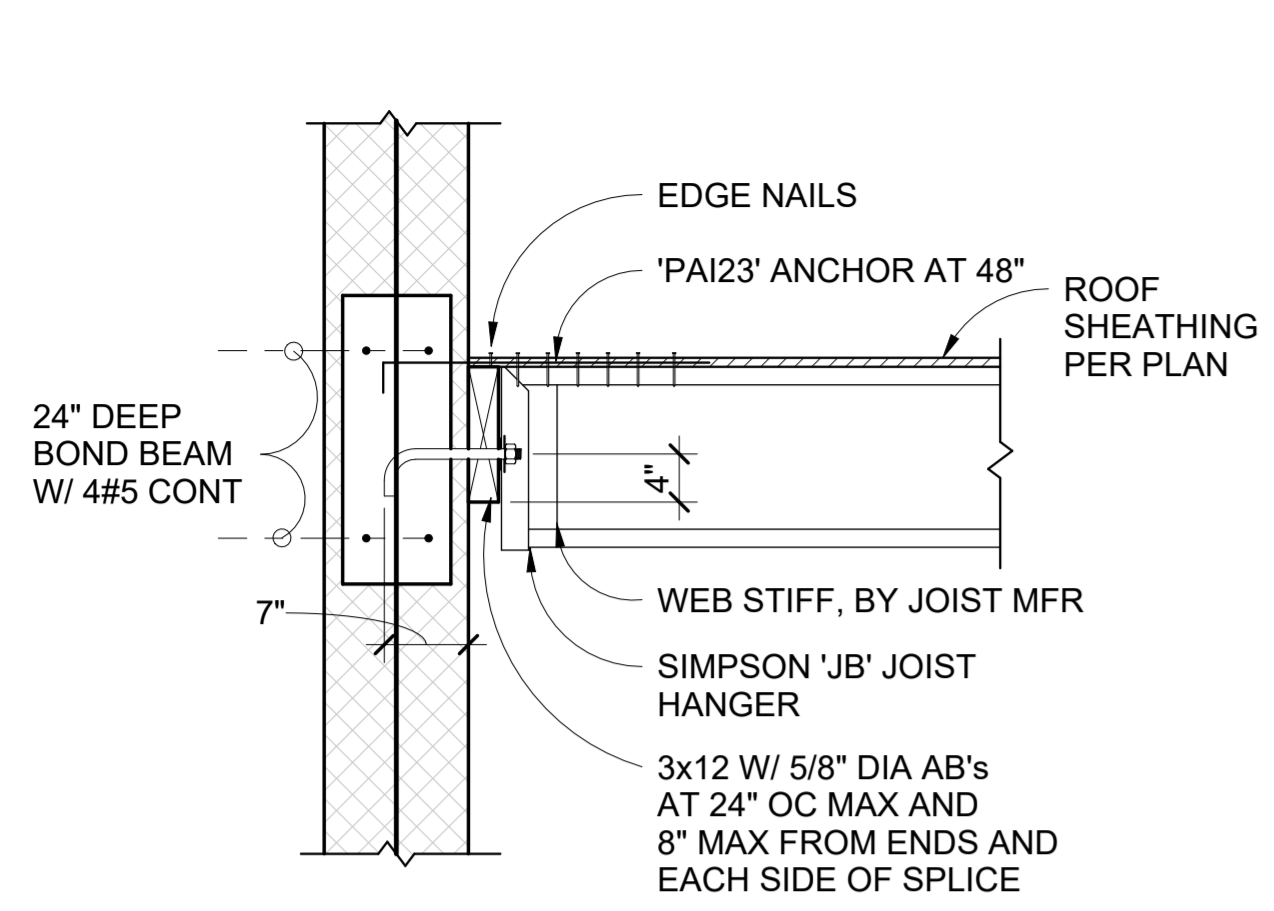
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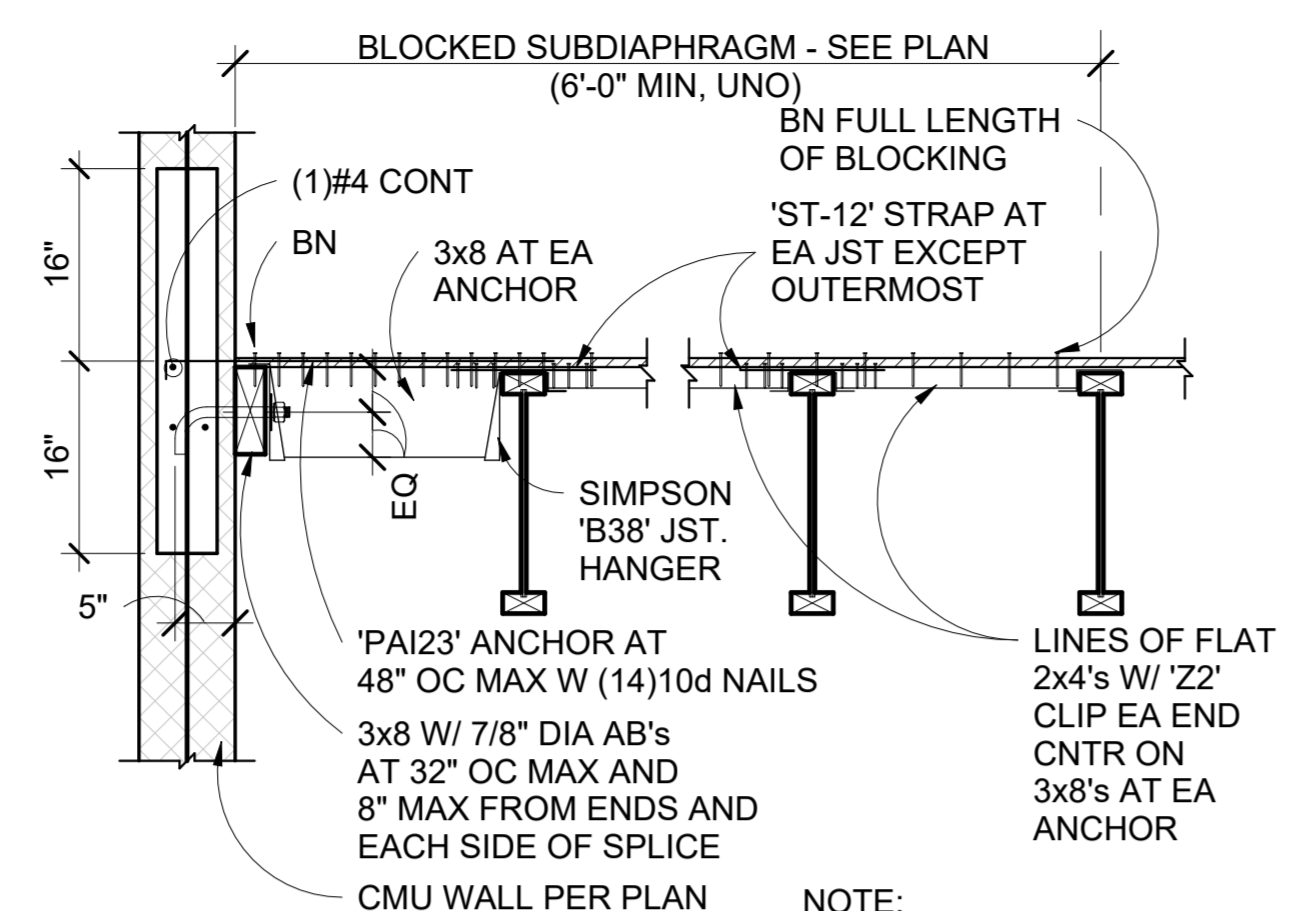
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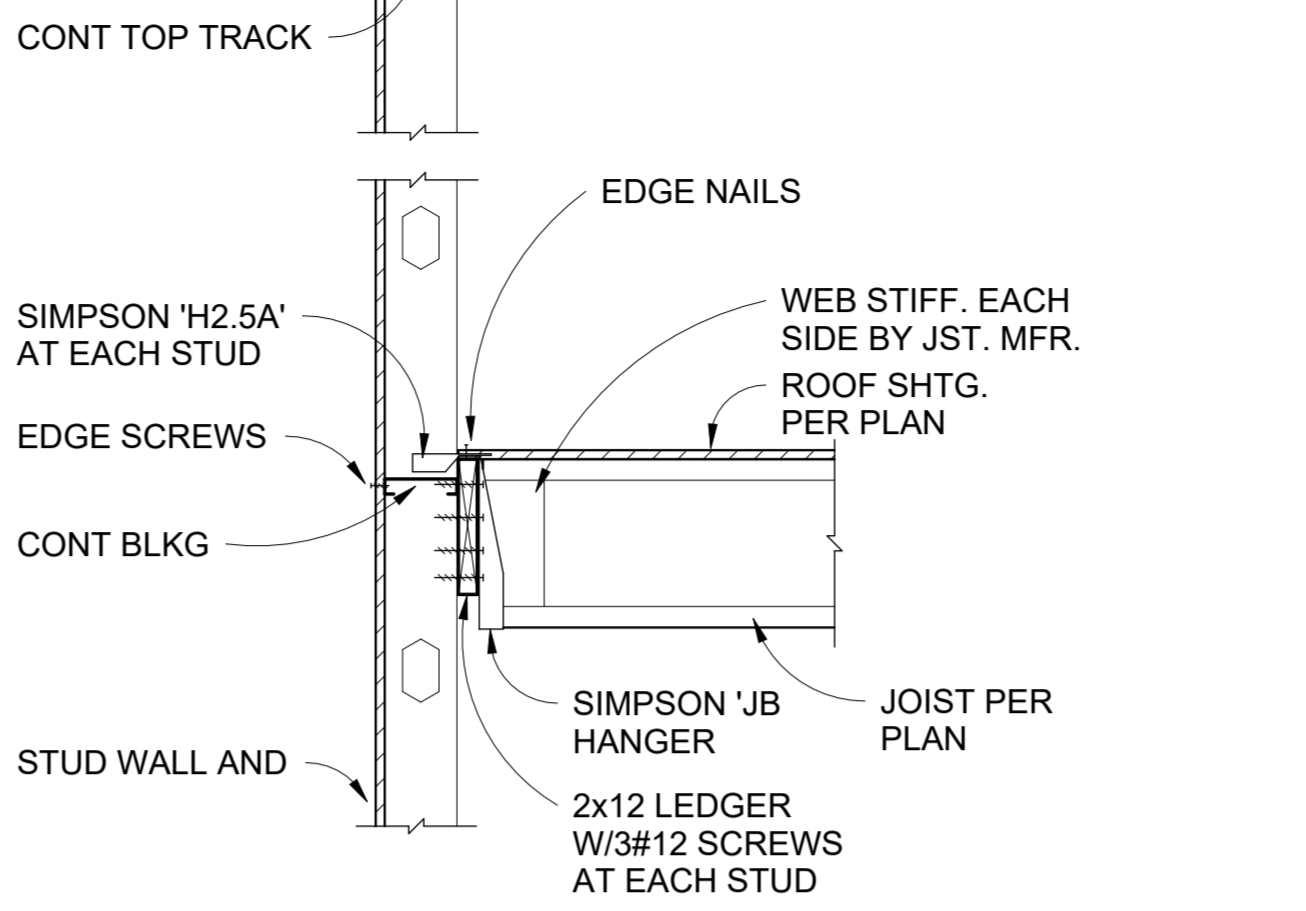
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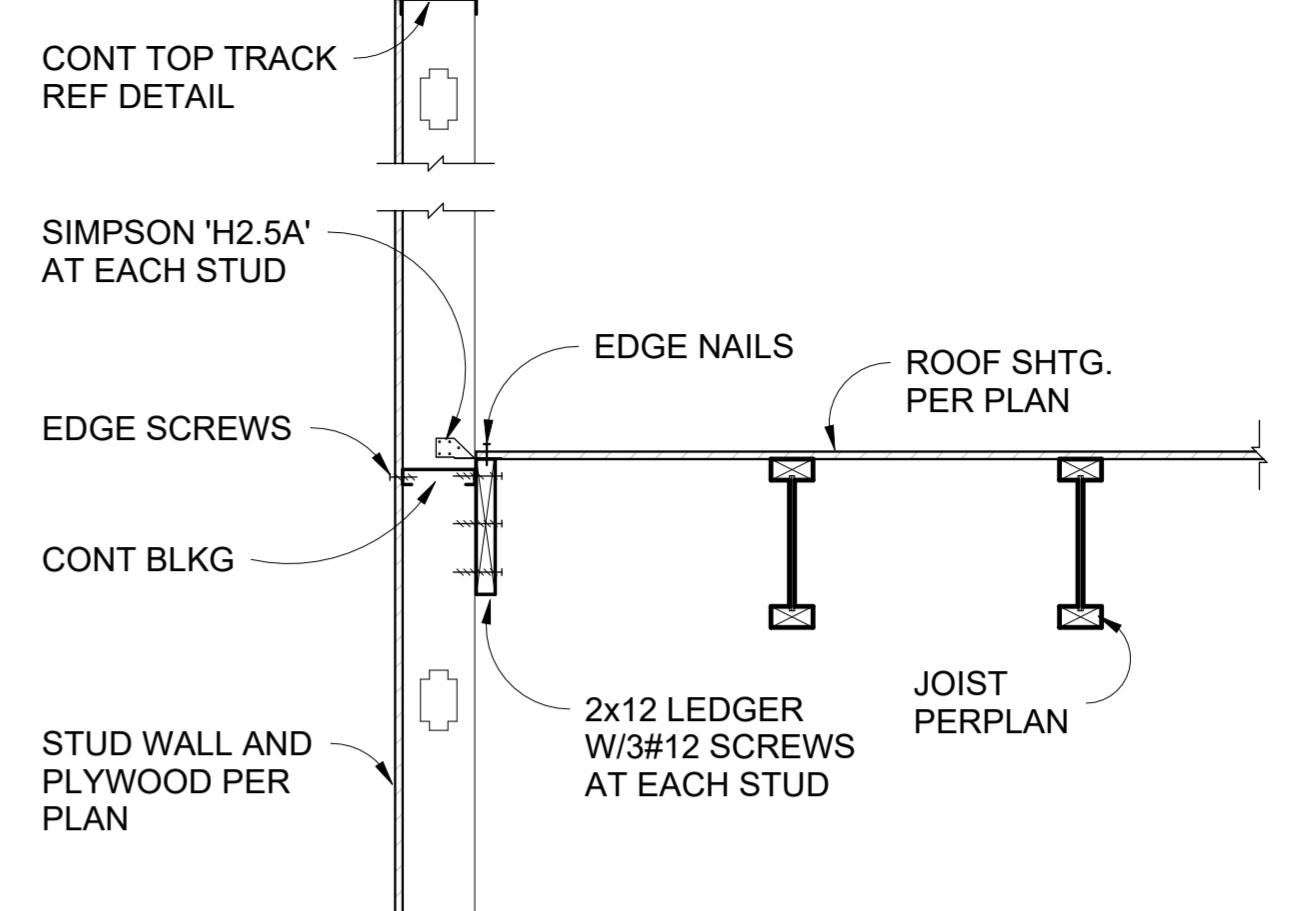
1 TYP WOOD I-JOIST PERP TO CMU WALL
NO SCALE



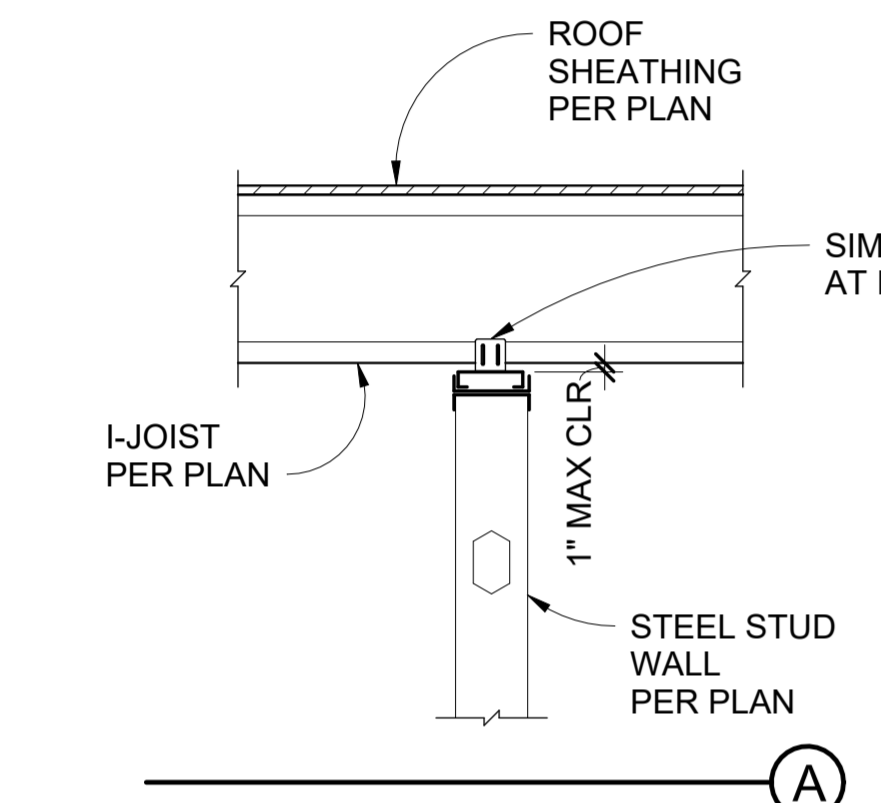
2 TYP WD JOIST PARALLEL TO MAS WALL
3/4" = 1'-0"



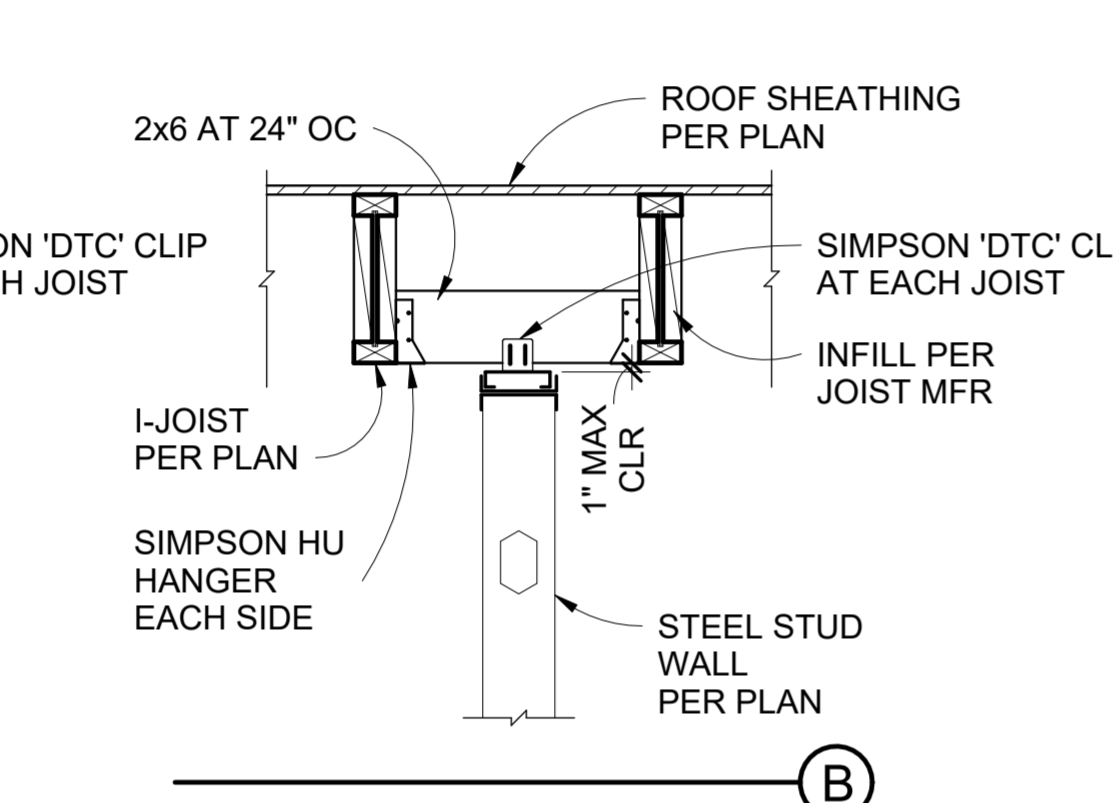
3 WOOD LEDGER AT STL STUD WALL
3/4" = 1'-0"



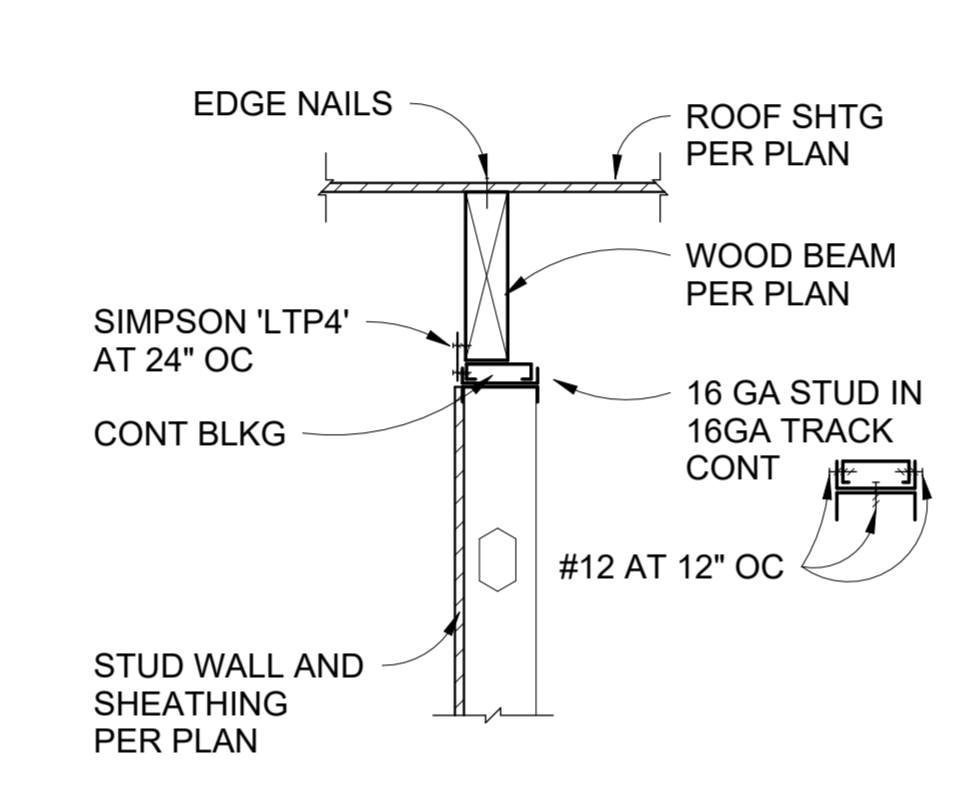
4 WOOD LEDGER AT STEEL STUD WALL
3/4" = 1'-0"



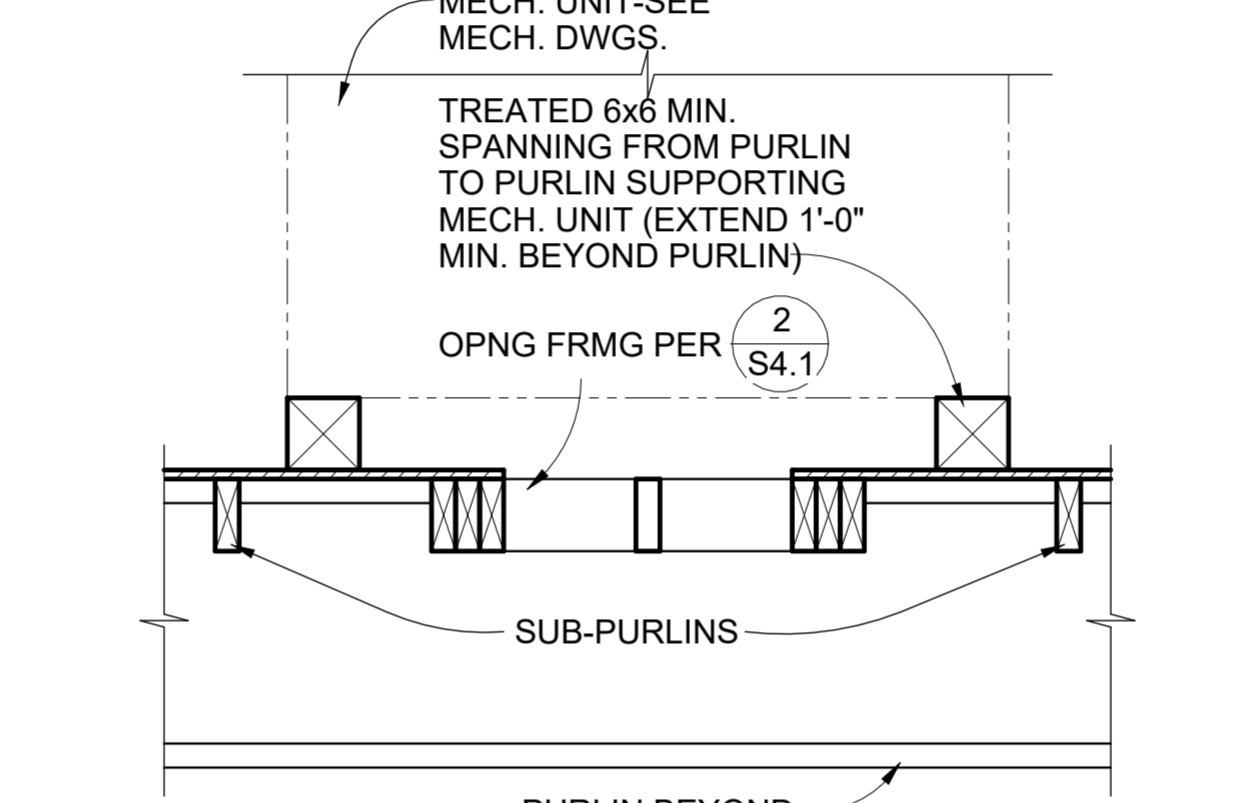
5 I-JOIST AT NON-BEARING STUD WALL
3/4" = 1'-0"



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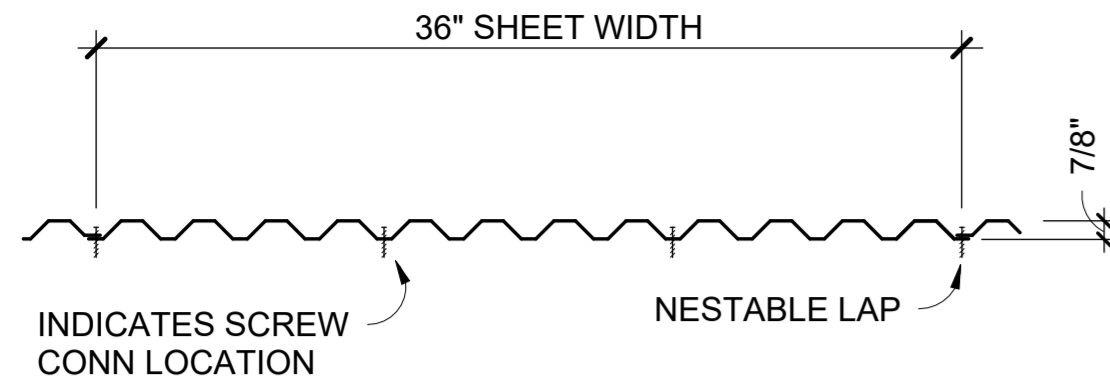
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MIN DECK CONN ALL SUPPORTS:
 (4) 1/2" Ø PUDDLE WELDS PER SHEET.
 1/2" Ø AT 12" OC AT PARALLEL SUPPORTS AND BOUNDRIES.
 NESTED 1/2" Ø PUDDLE WELDS AT 12" OC

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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 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

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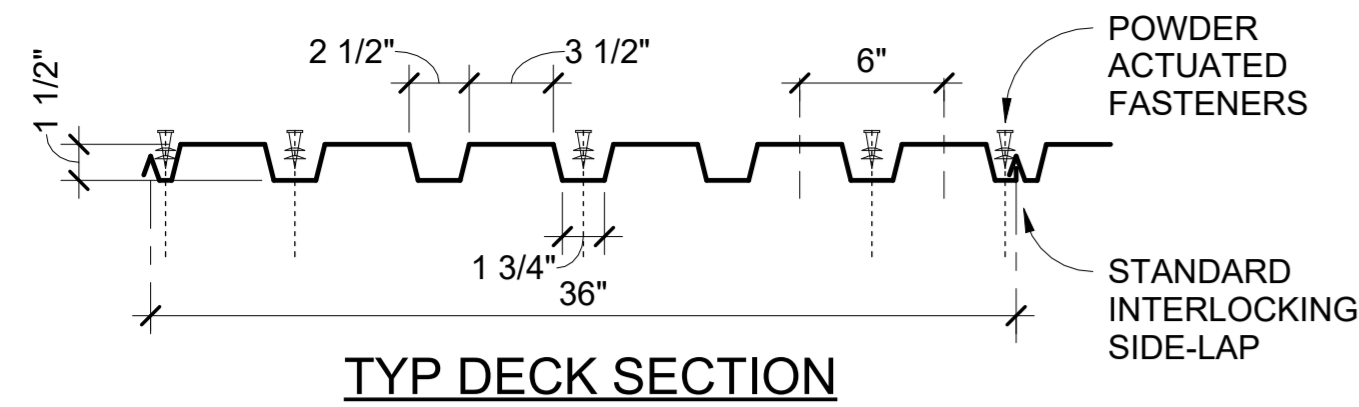
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Structural Details

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:

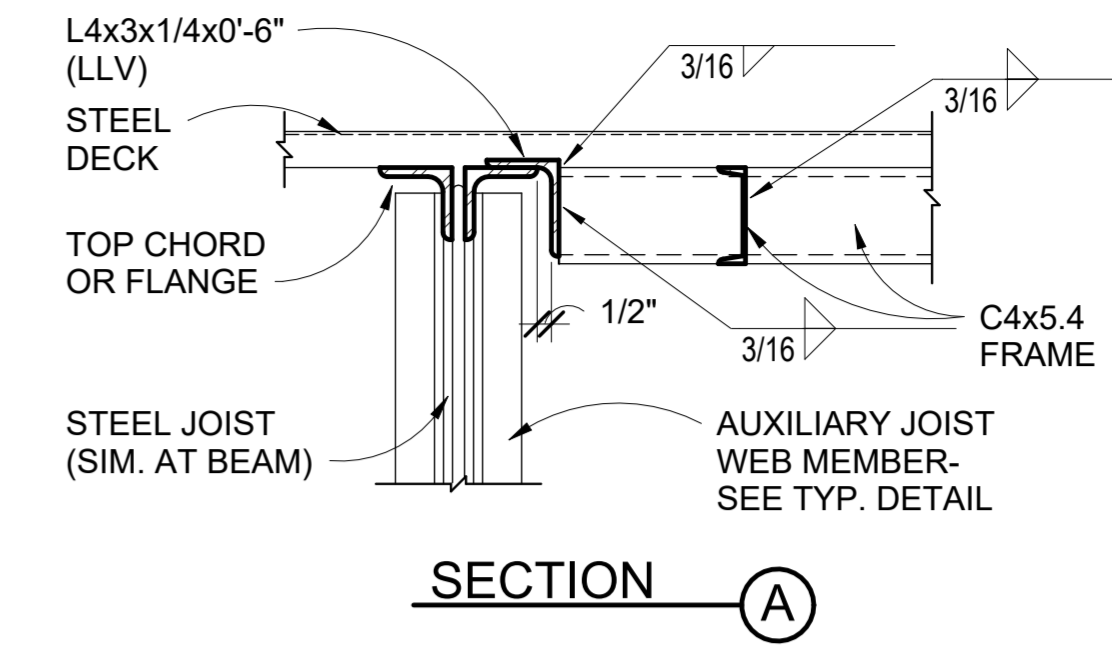
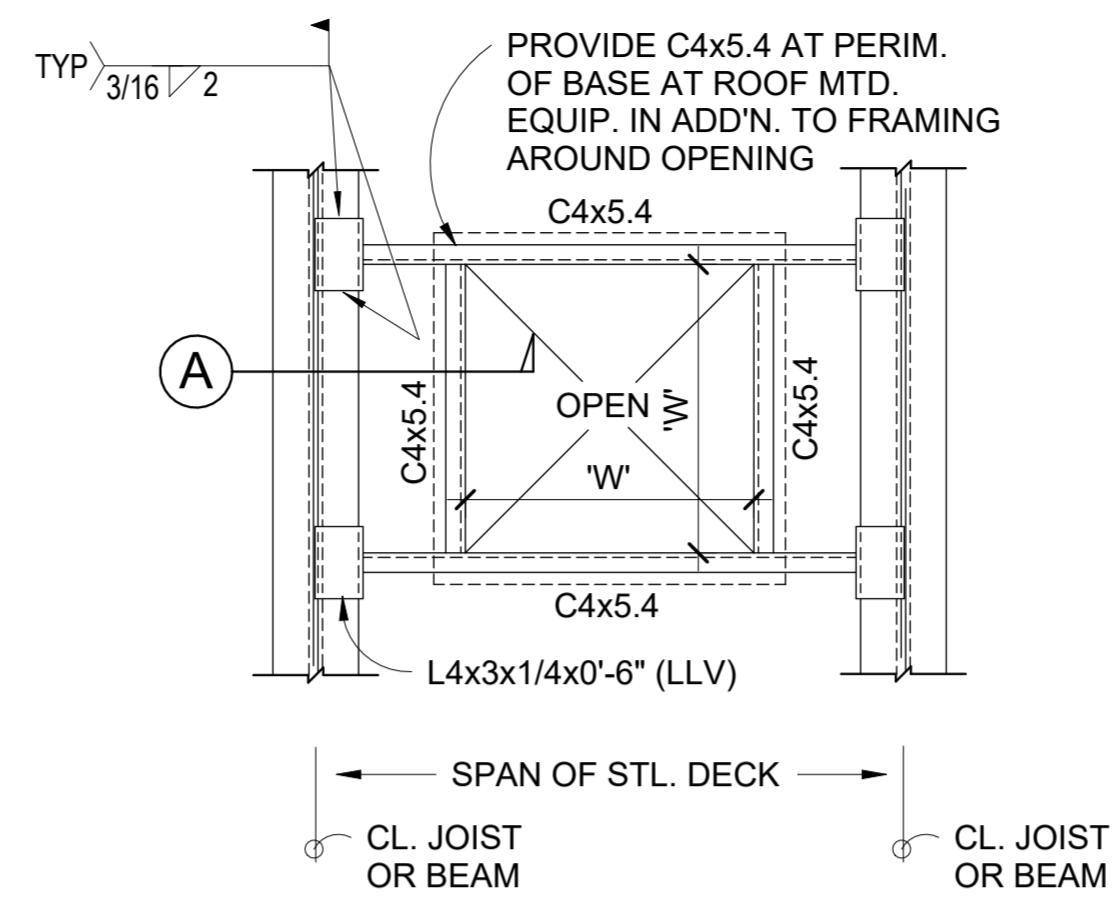
1. DECK LAYUP SHALL PROVIDE ALL DECK SHEETS OF SUFFICIENT LENGTH TO EXTEND CONTINUOUSLY OVER AT LEAST 3 SPANS. ENDS OF ADJOINING DECK SHEETS SHALL BE CENTERED OVER SUPPORTS & ABUTTED OR ACCEPTABLY LAPPED 2". ABUTTED SHEETS REQUIRE 2 TYPICAL CONNECTIONS AT EACH CONNECTION LOCATION.
2. DECK SHALL BEAR 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.

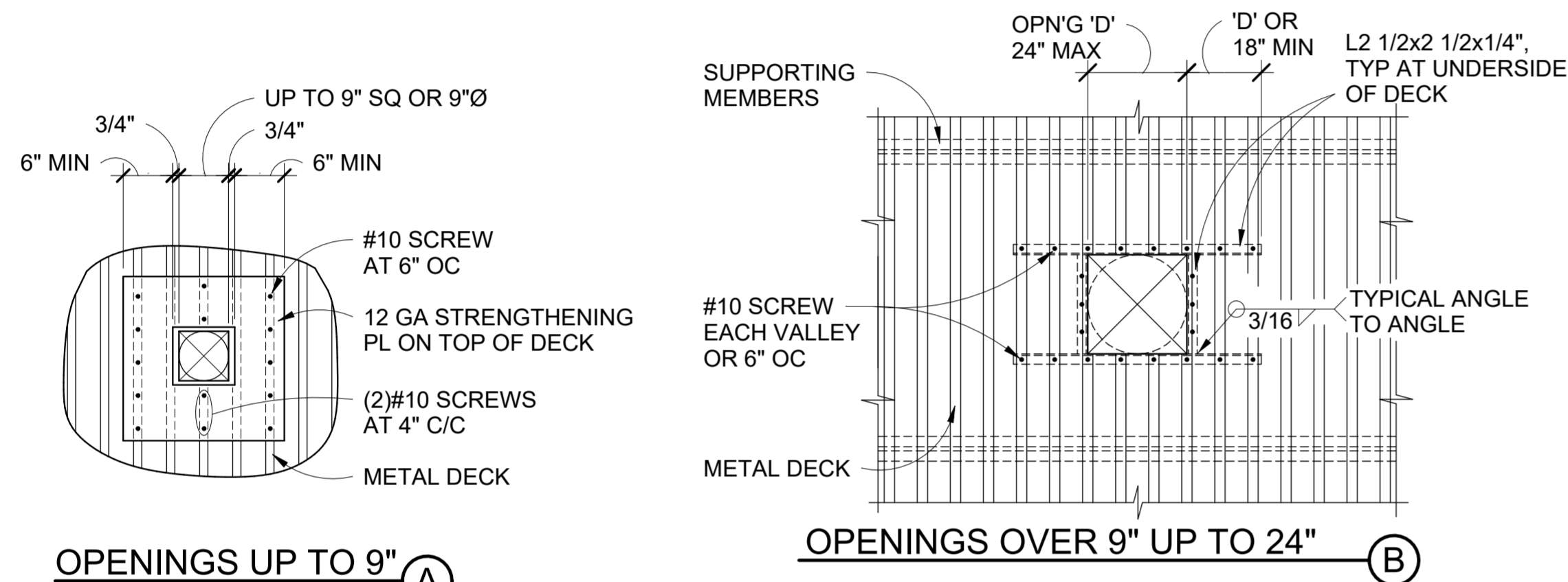


NOTE:

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



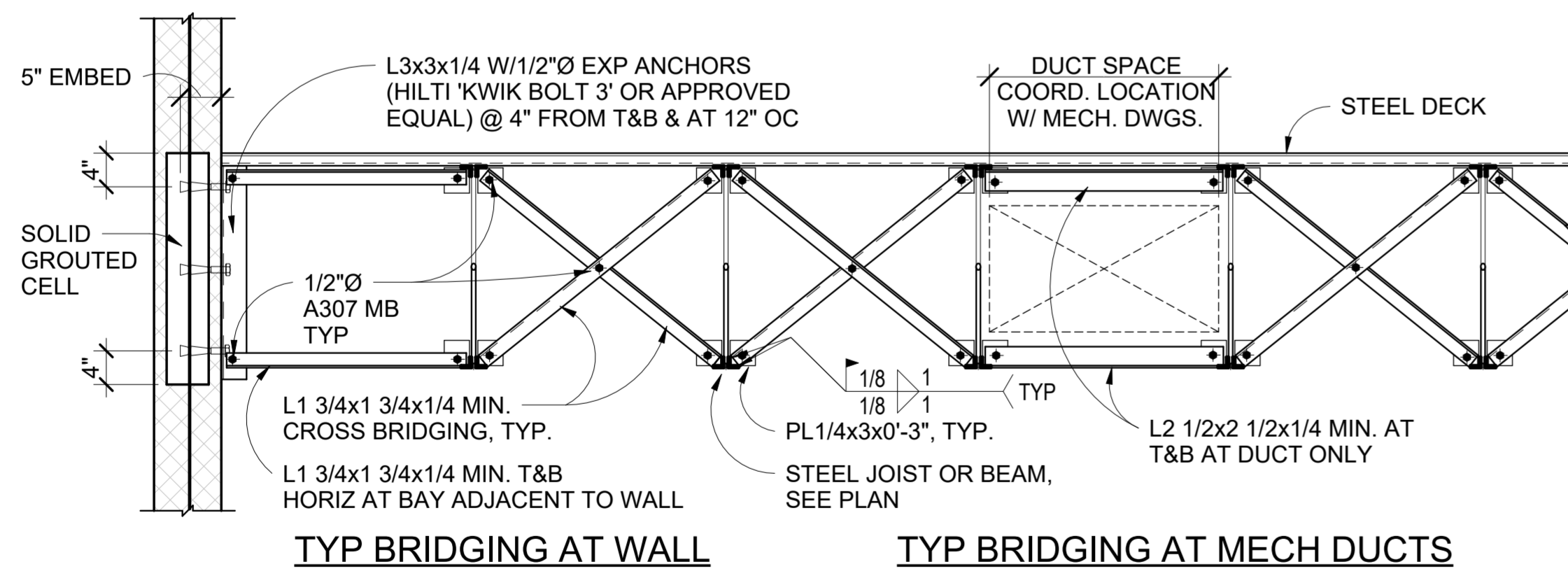
NOTES:

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

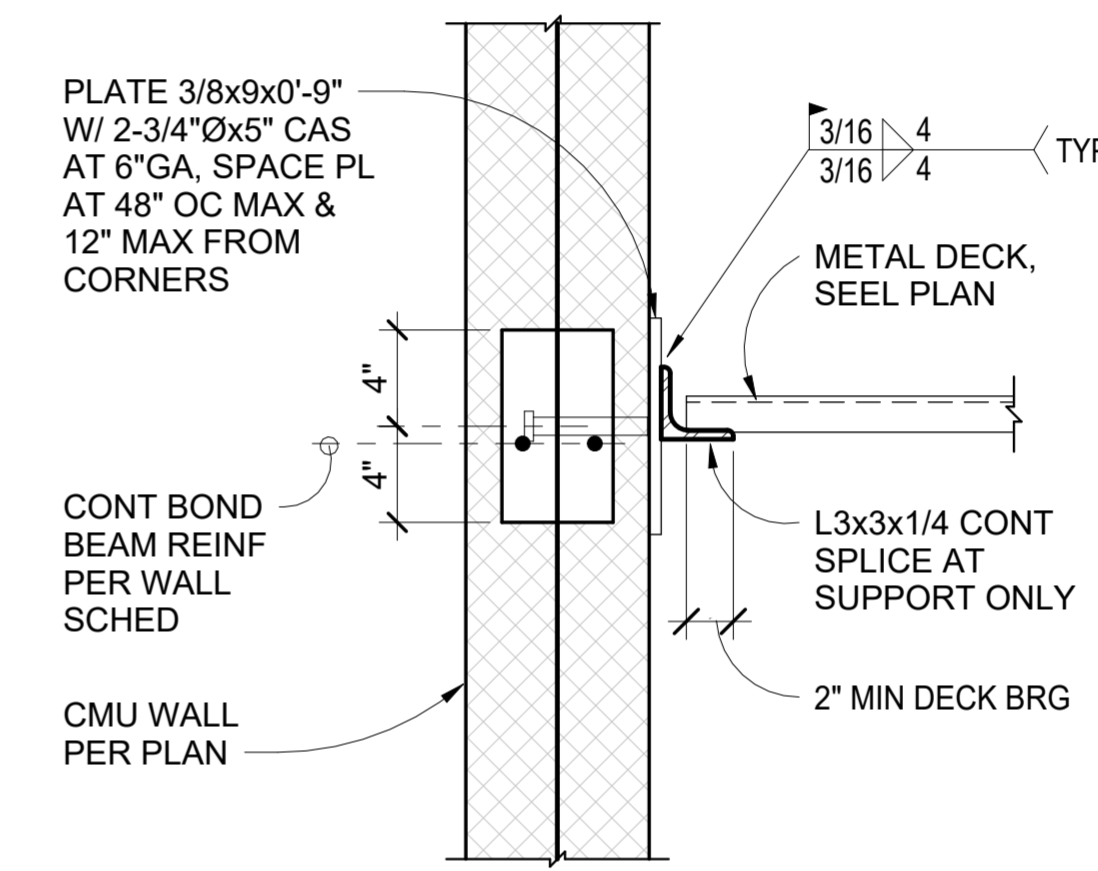
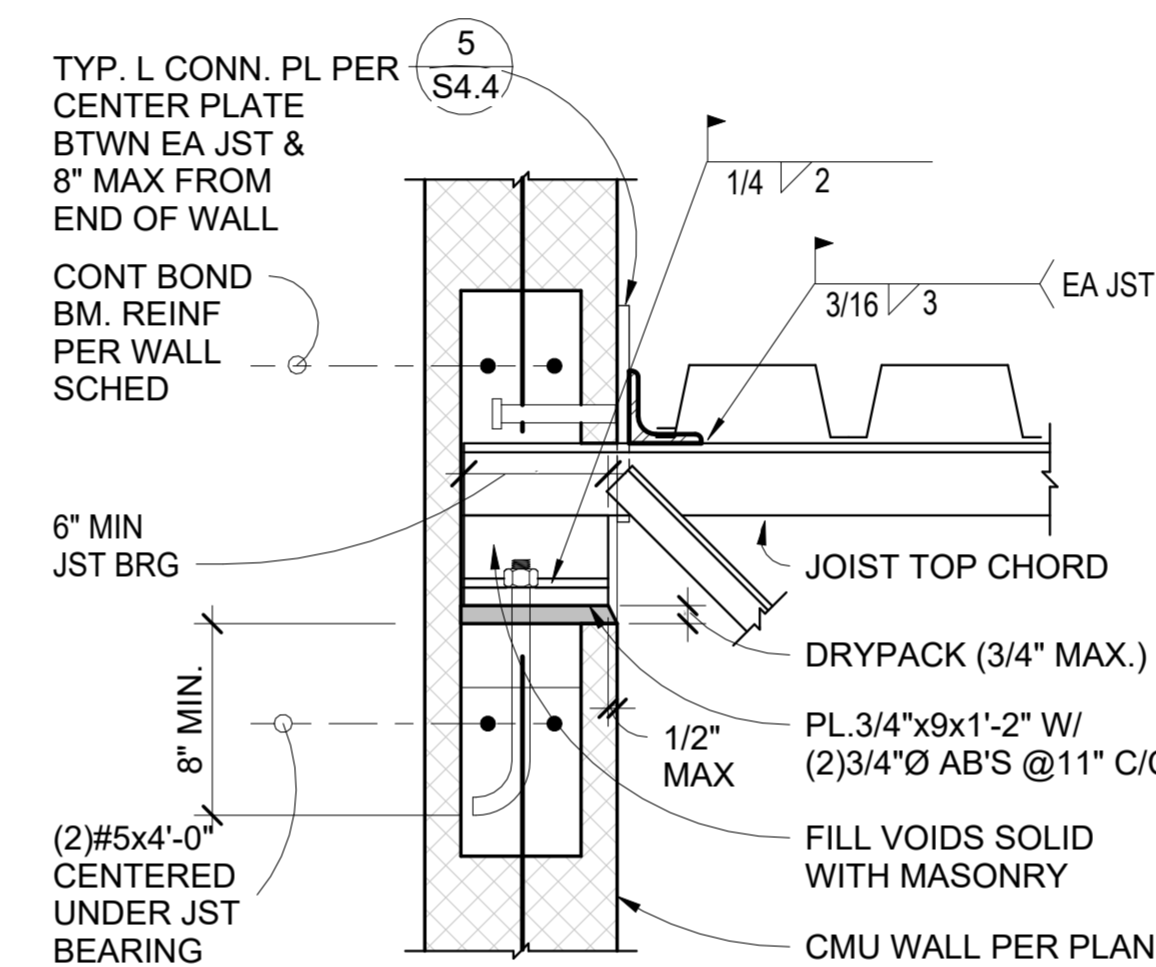
5 TYP STEEL DECK BEARING ON MAS WALL
NO SCALE



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



Breckenridge
Group Architects
Planners
1735 e. lowell rd. #12
tucson arizona 85719
520.882.9944

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

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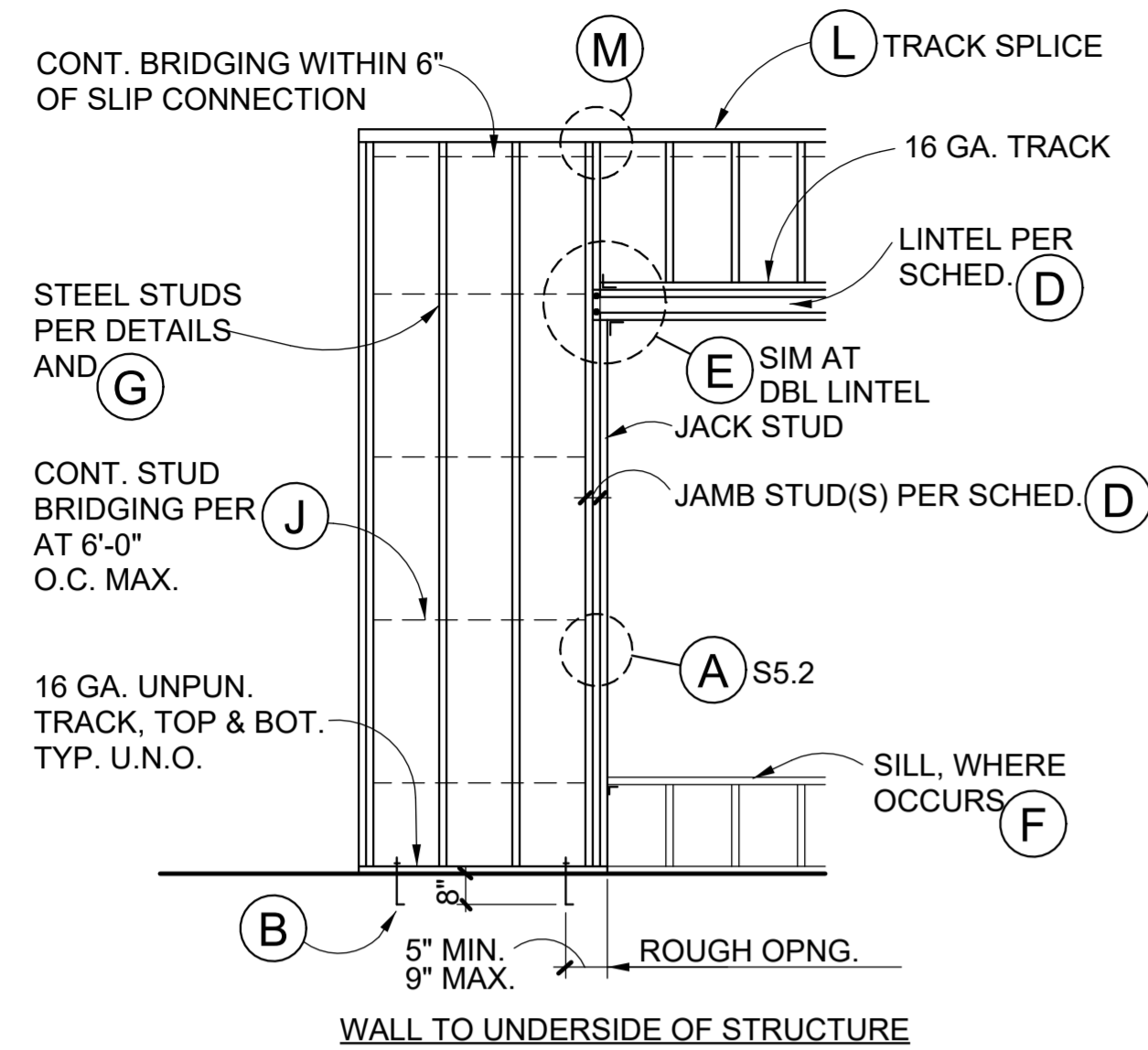
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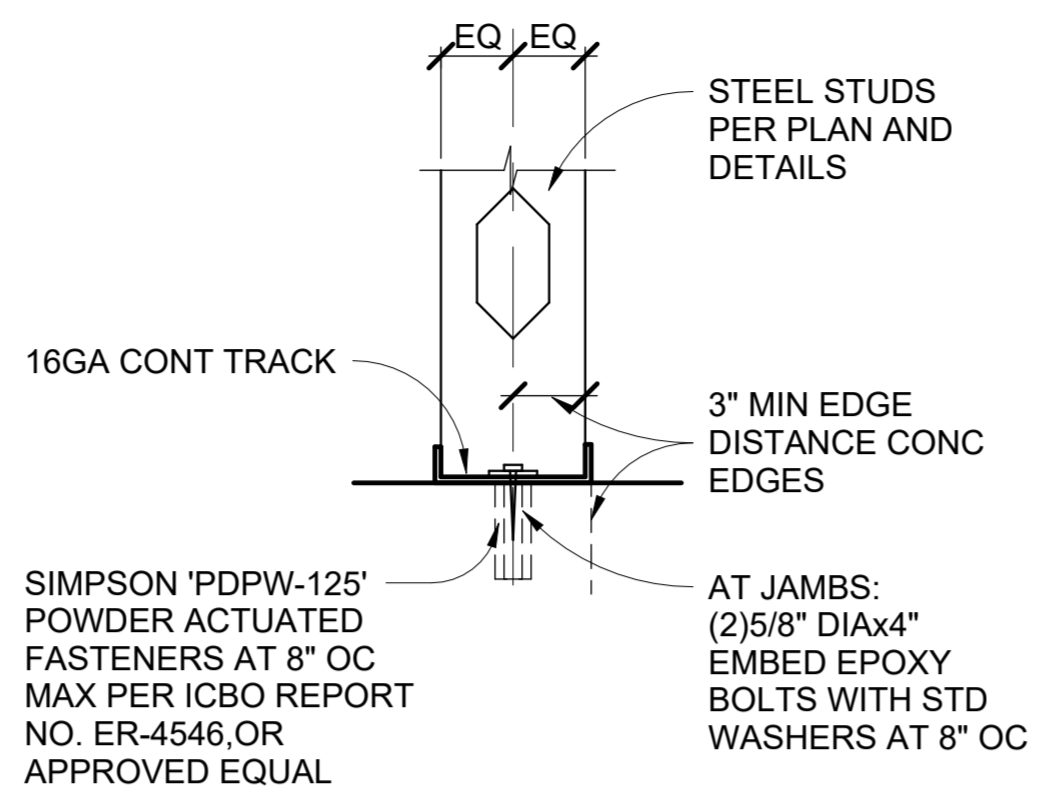
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& MARTIN WHITE GRIFFIS
STRUCTURAL ENGINEERS, INC.

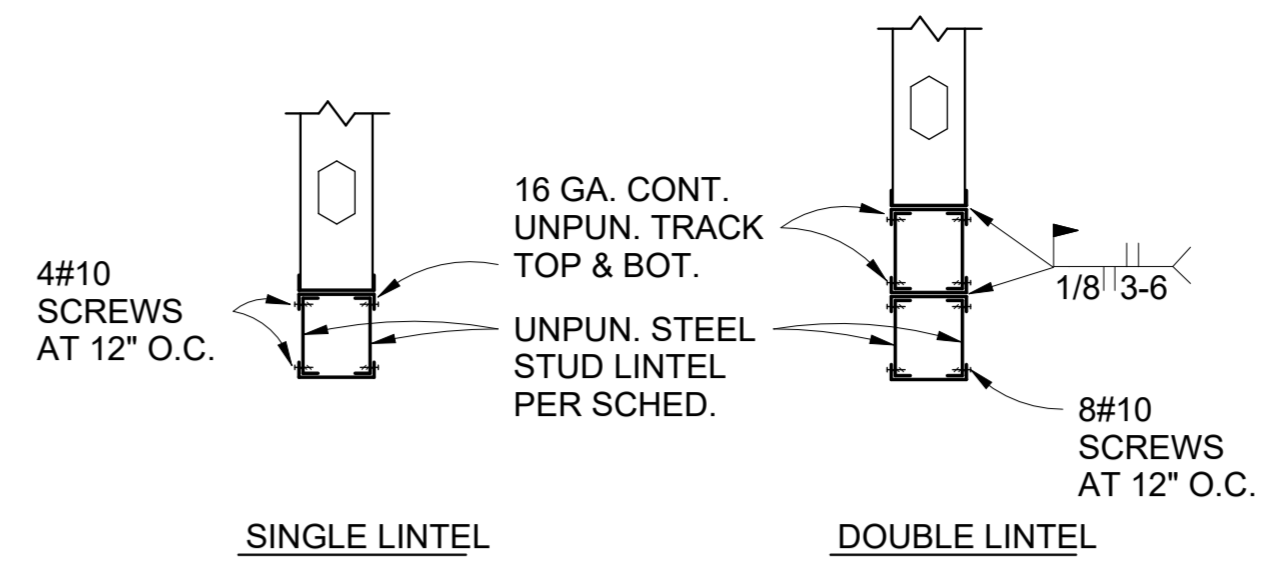
S4.4



TYP. WALL AND OPENING FRAMING (A)



TYP BASE TRACK CONN AT CONC (B)

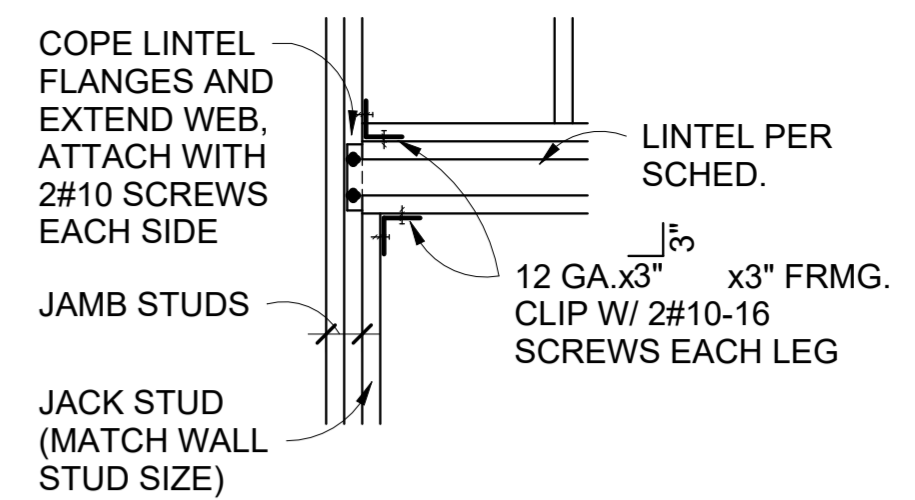


TYPICAL LINTEL DETAILS (C)

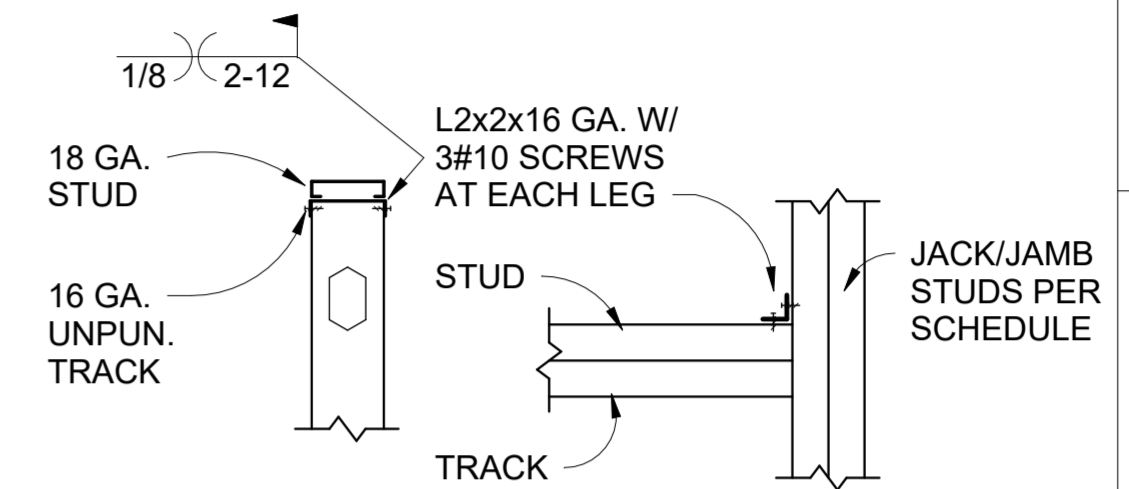
OPENING SCHEDULE U.N.O.

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)



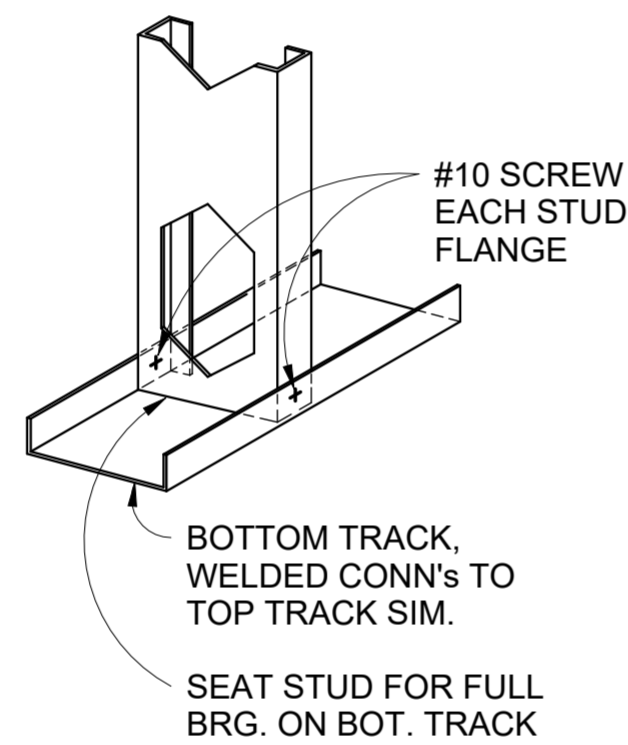
TYP. SILL DETAILS (F)

MIN. STRUCTURAL PROPERTIES FOR STRUCTURAL STUDS AND TRACKS

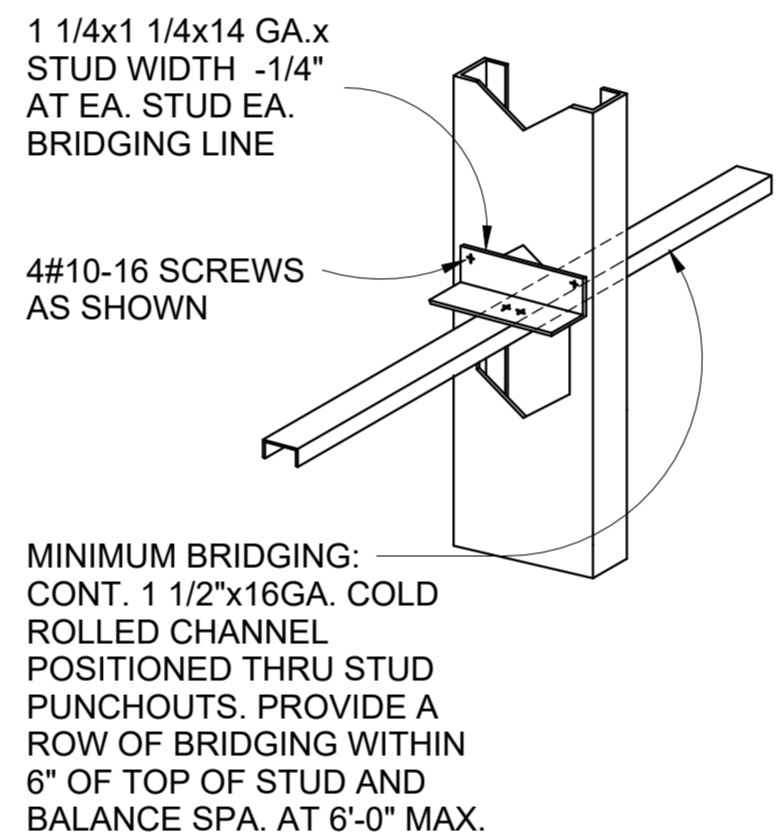
STUDS	TRACKS	Sx	Ix
600S162-43	6.207"	0.767 IN. ³	2.316 IN. ⁴
600S162-54	6.207"	0.927 IN. ³	2.860 IN. ⁴
600S162-68	6.207"	1.164 IN. ³	3.525 IN. ⁴
600S162-97	6.207"	1.599 IN. ³	4.797 IN. ⁴
600T125-54	6.207"	0.653 IN. ³	2.221 IN. ⁴
600T125-68	6.207"	0.874 IN. ³	2.930 IN. ⁴
600T125-97	6.207"	1.374 IN. ³	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)



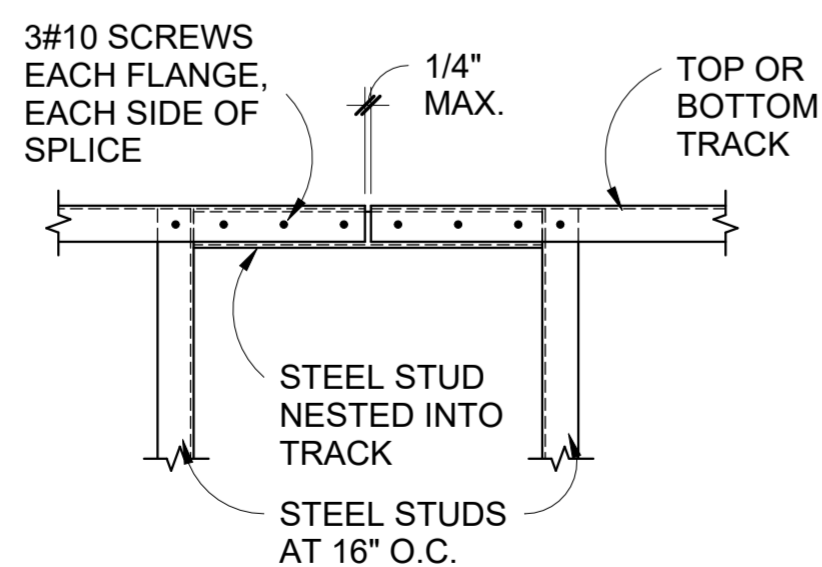
TYP. STUD TO TRACK CONN. (H)



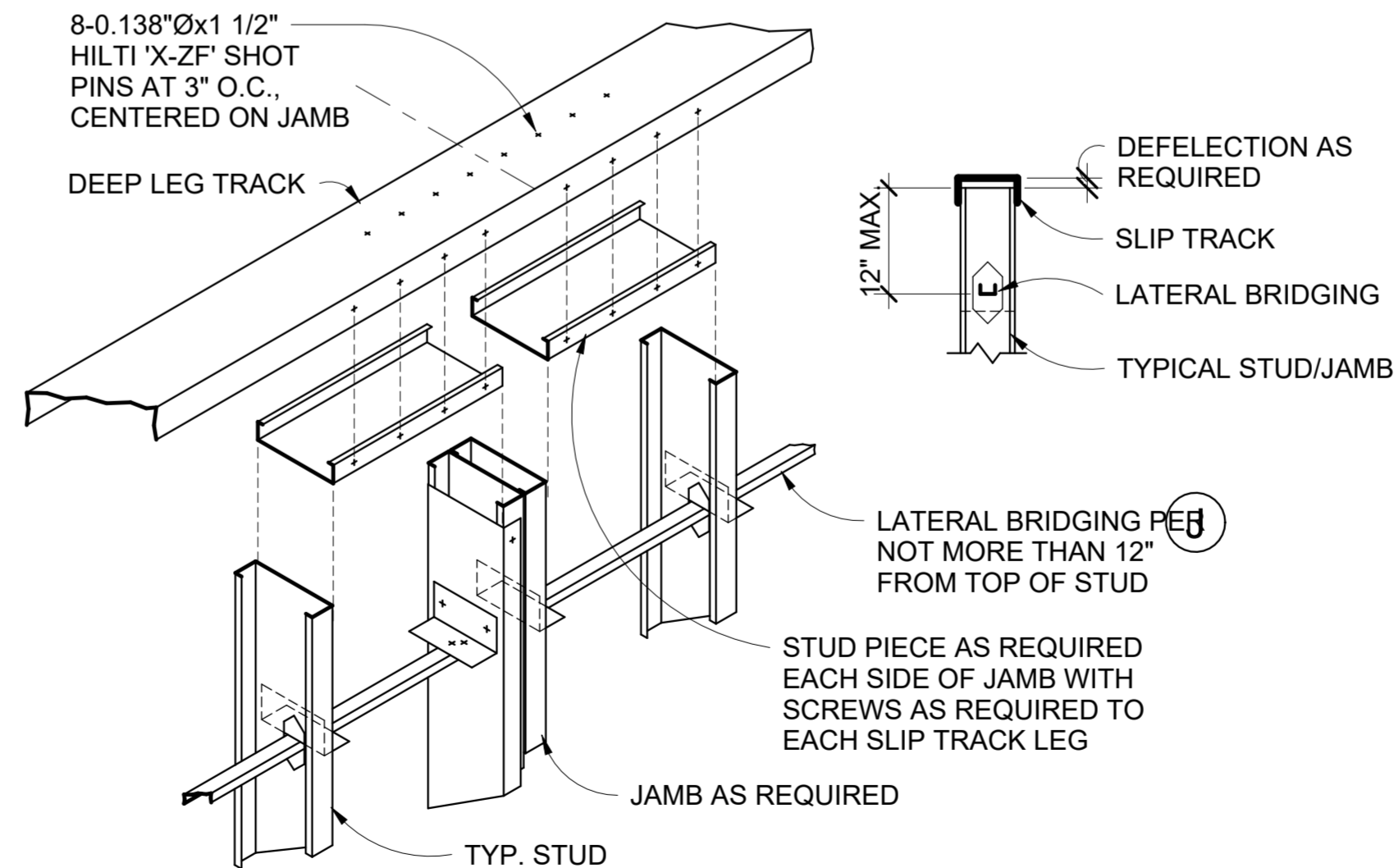
TYP. STUD BRIDGING (J)

NOT USED

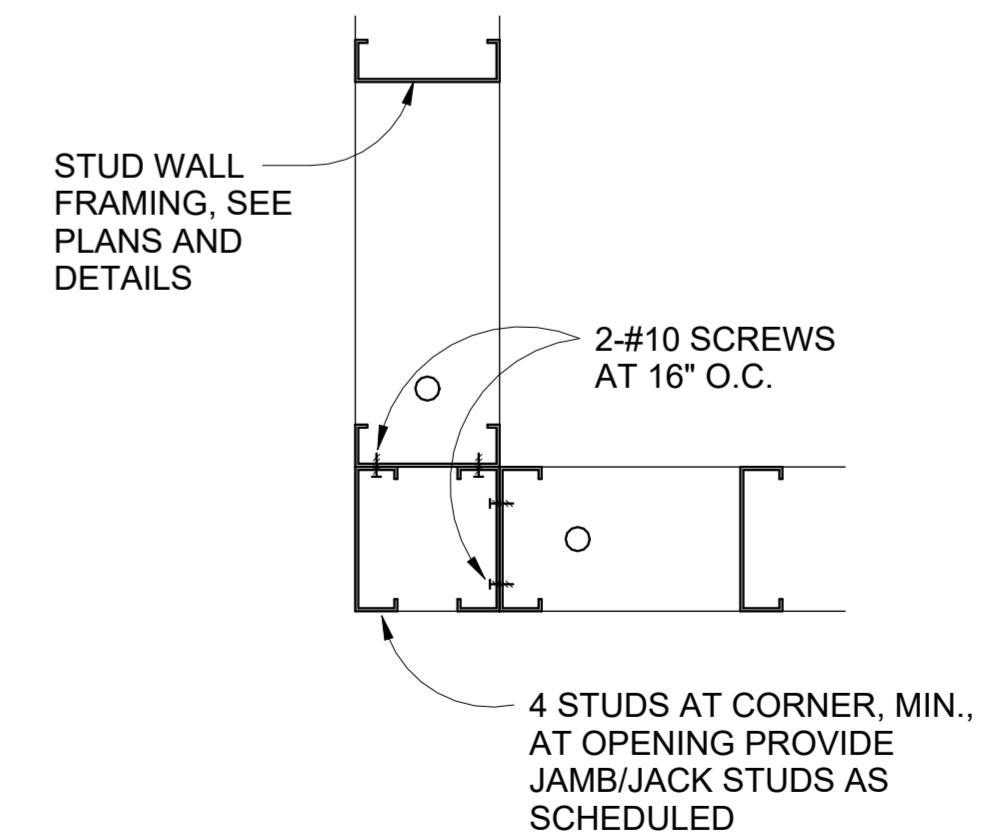
(K)



TYP TRACK SPLICE (L)



SLIP TRACK DETAIL AT STUD JAMB (M)



TYP. PLAN AT CORNER (N)

1 TYPICAL STRUCTURAL STEEL STUD WALL FRAMING

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

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tucson arizona 85719
520.882.9944

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

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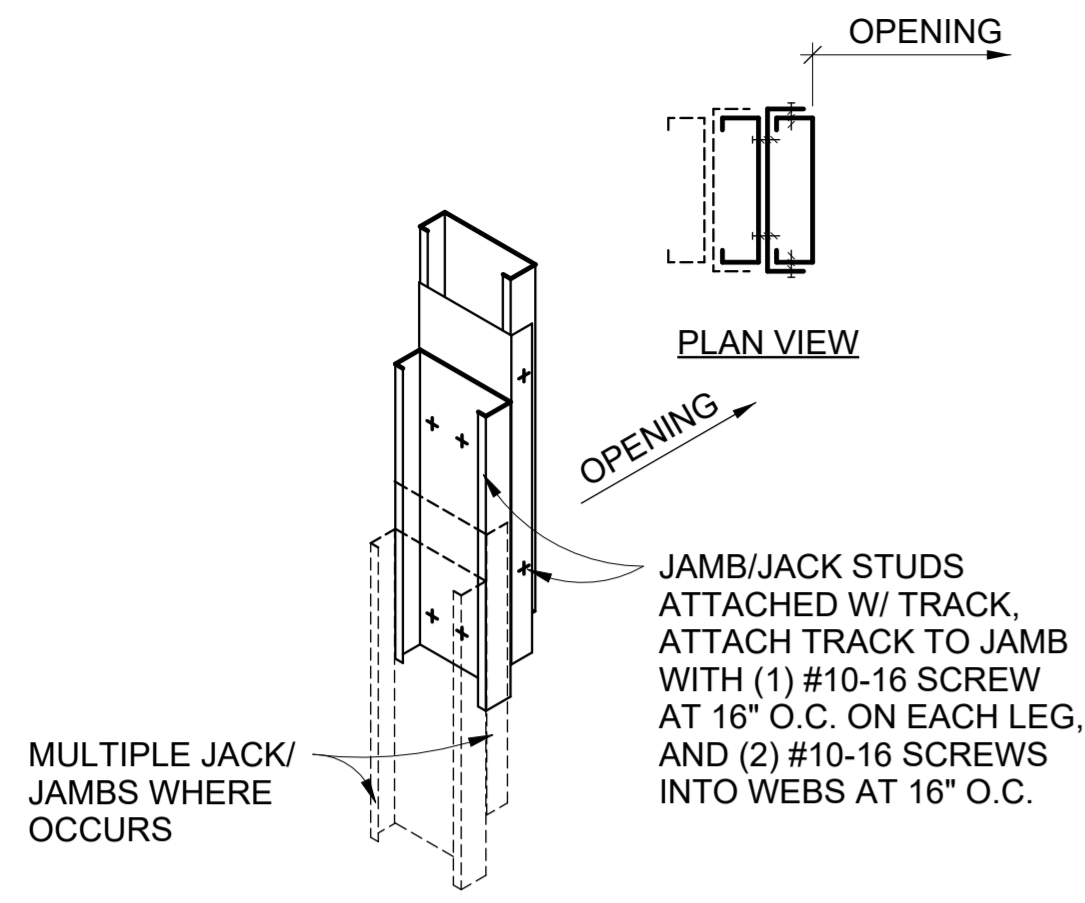
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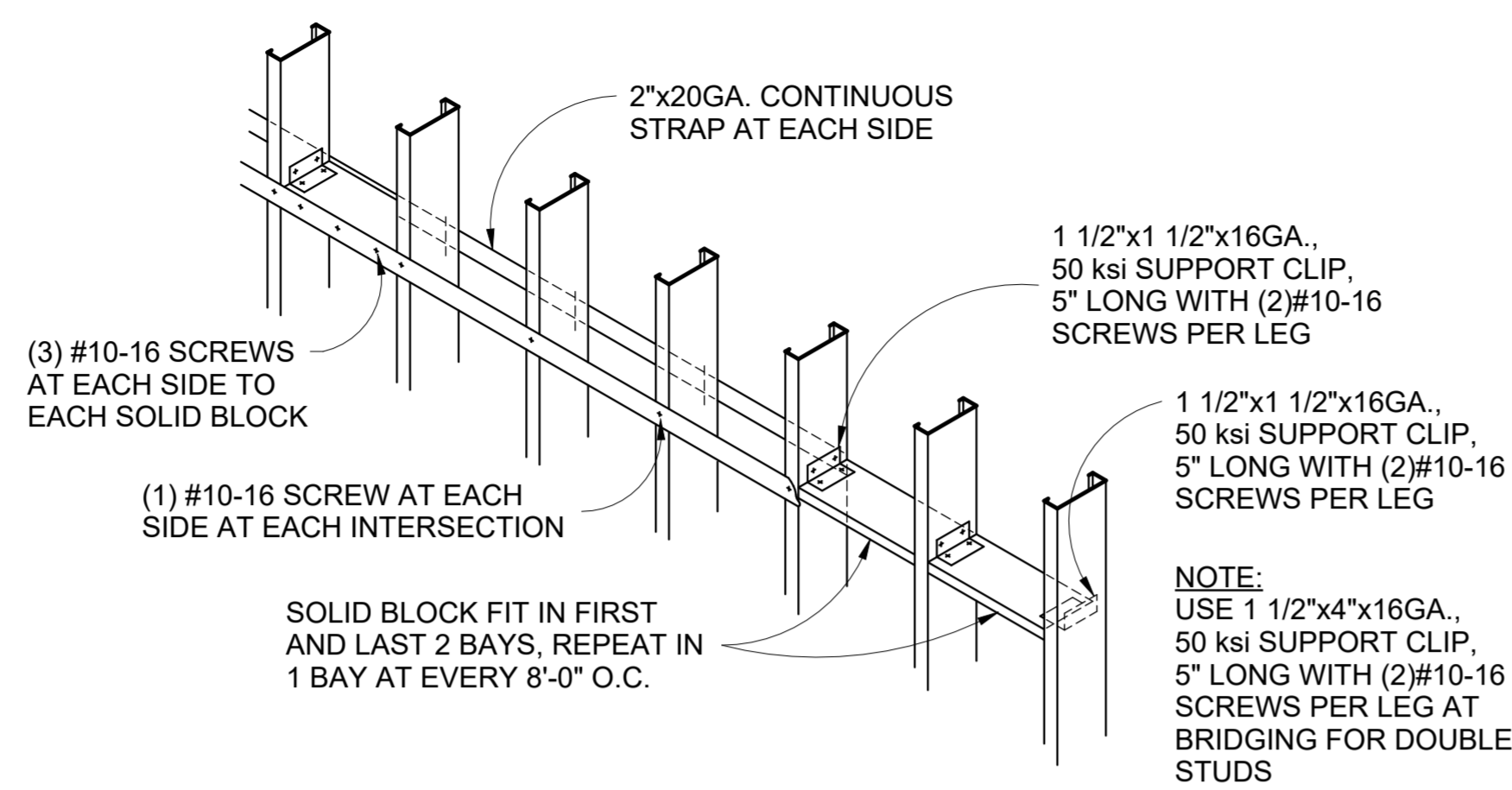
Structural Details

& MARTIN WHITE GRIFFIS
STRUCTURAL ENGINEERS, INC.

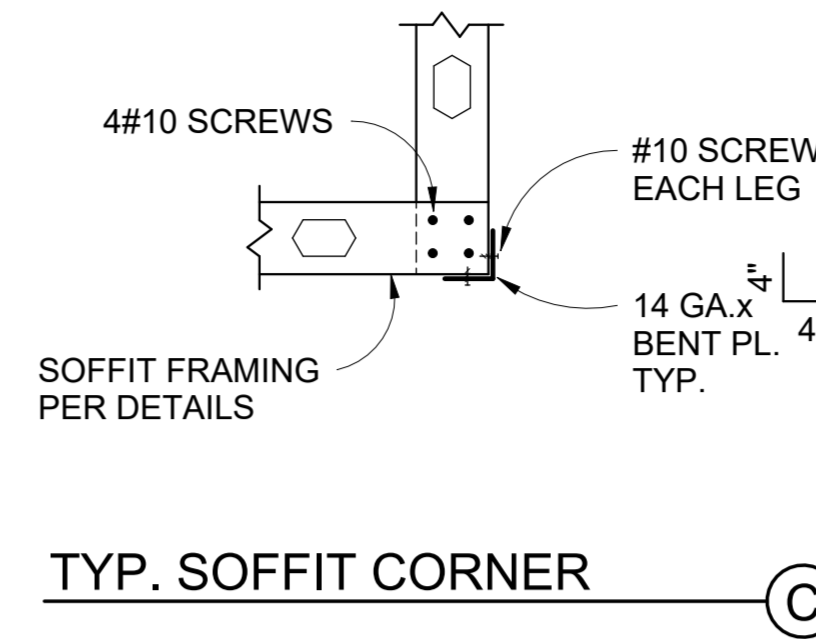
S51



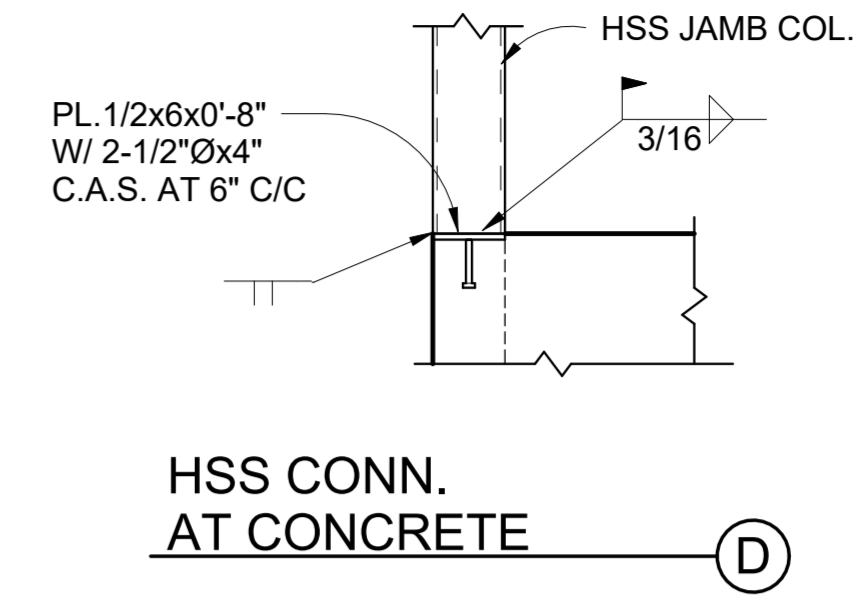
MUTIPLE JACK/JAMB STUD DETAIL (A)



BLOCK AND STRAP BRIDGING (B)

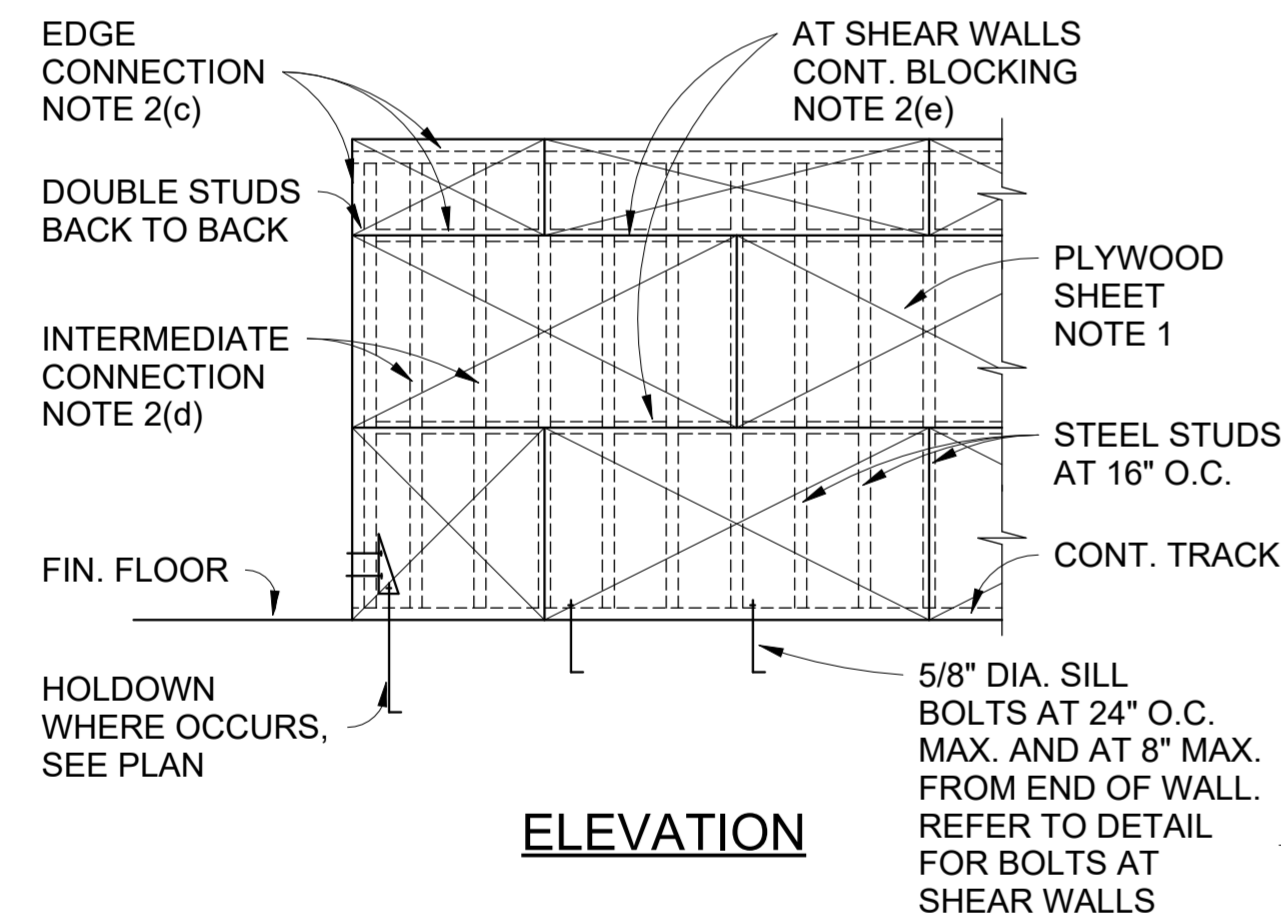


TYP. SOFFIT CORNER (C)



HSS CONN. AT CONCRETE (D)

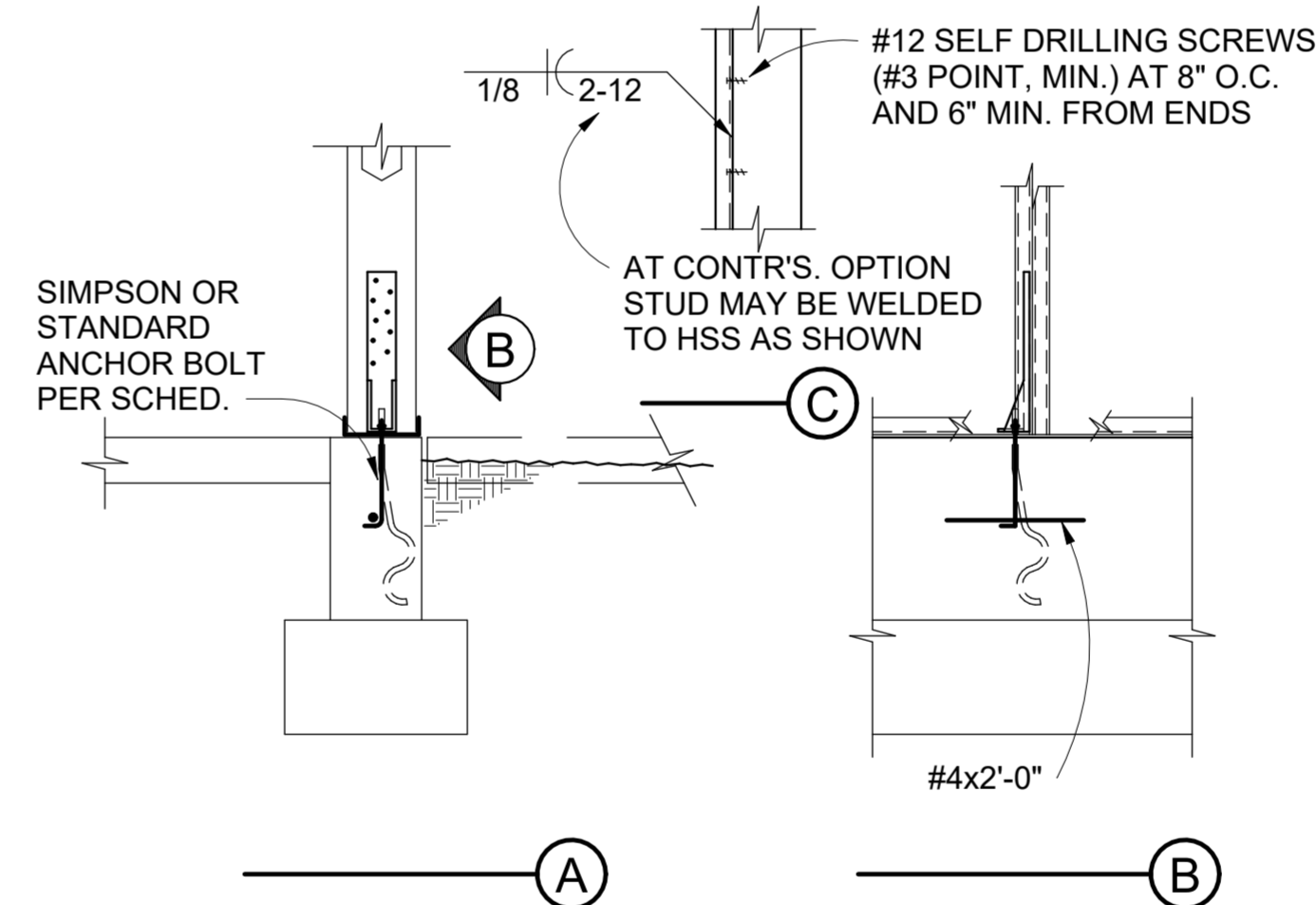
1 TYPICAL STRUCTURAL STEEL STUD WALL FRAMING (CONTINUED)



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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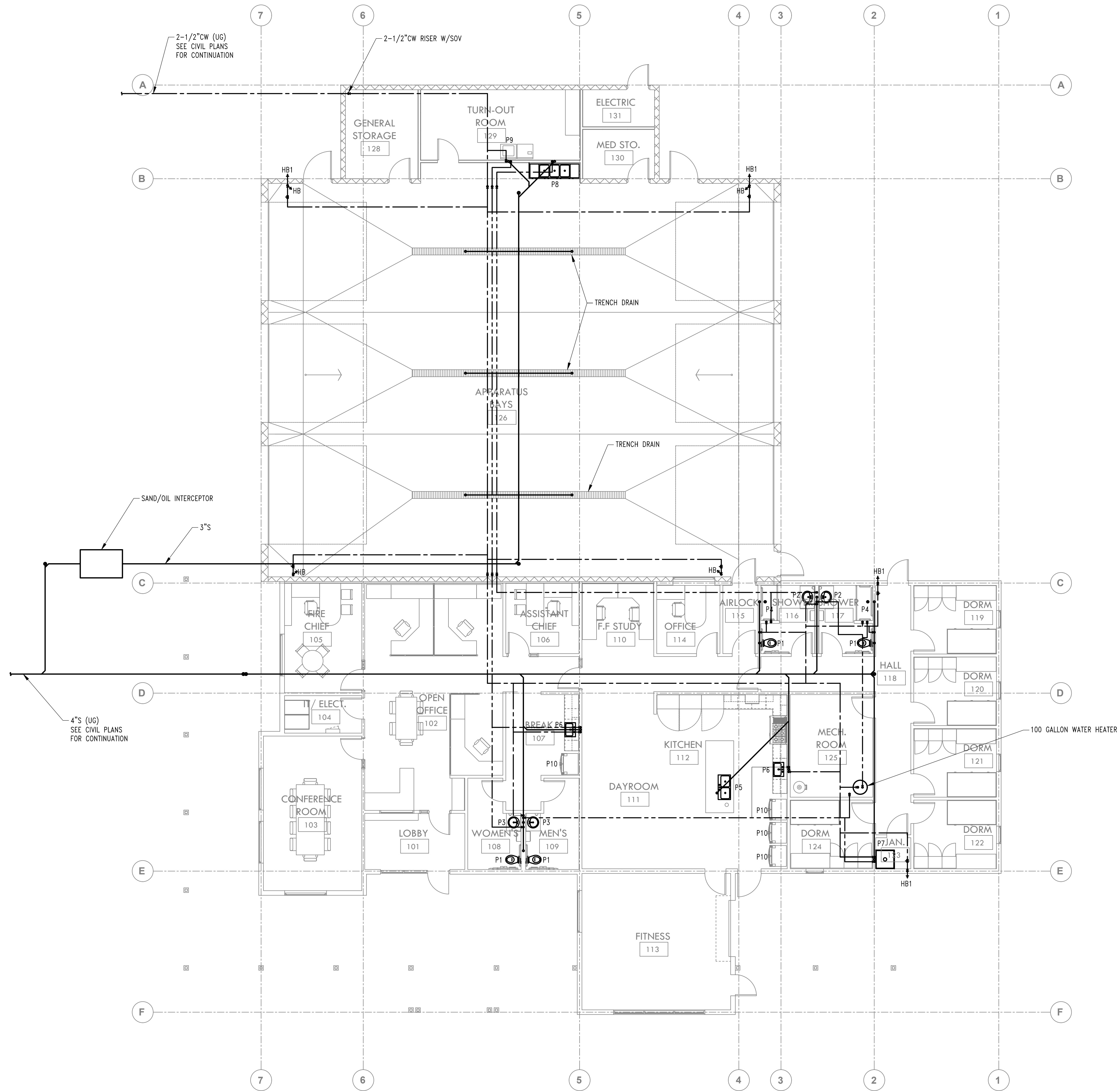
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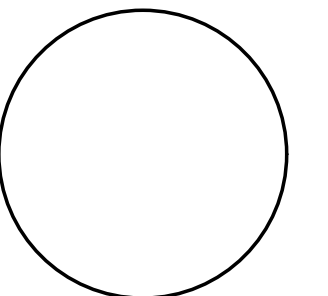


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Preliminary Plans



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23.21.00

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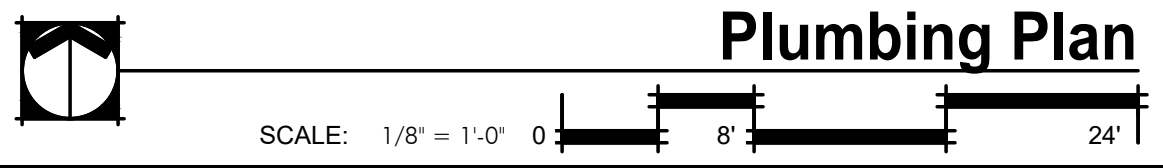
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 Designers Mech: MQ Plumb: KGW Project #: 24-215

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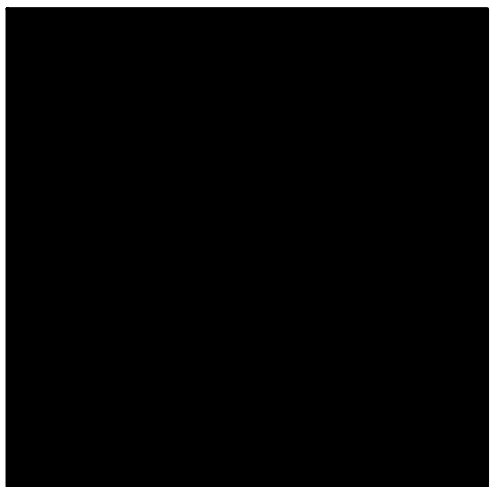
Plumbing Plan

P1.1

PLOT DATE

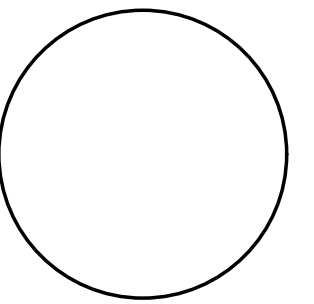
MARK	FIXTURE	DESCRIPTION	QTY	WASTE		WATER		CONNECTION SIZES (INCHES) **			
				FIXTURE UNITS		FIXTURE UNITS*		WASTE	VENT	HOT	COLD
				FU	TOTAL	FU	TOTAL				
P1	WATER CLOSET (ADA)	KOHLER "HIGHCLIFF" #K-96057, 1.6 GAL./FLUSH MAXIMUM, VITREOUS CHINA, FLOOR MOUNTED, FLUSH VALVE WATER CLOSET W/ADA COMPLIANT 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
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					34		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



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

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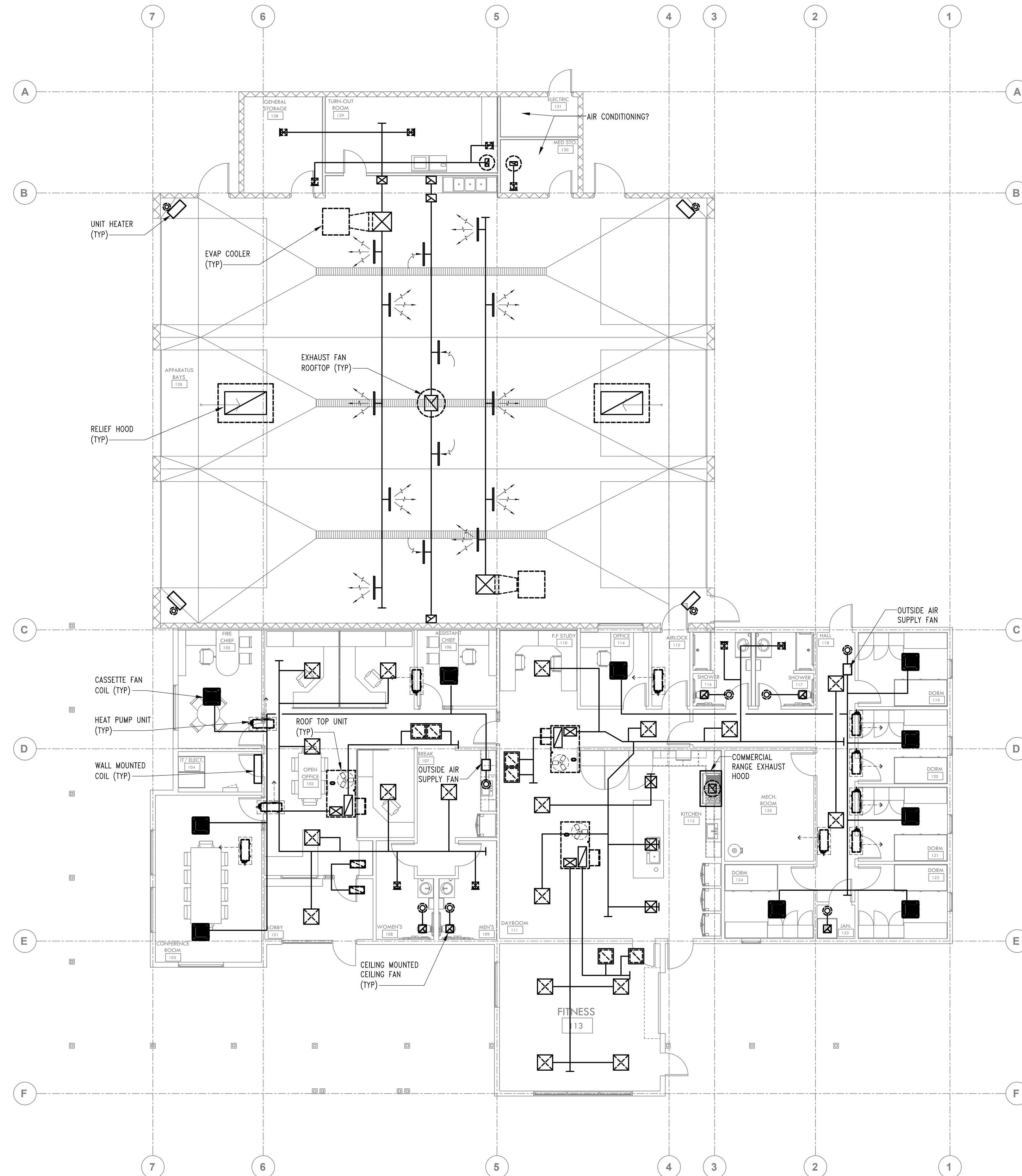


Plumbing Plan

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

R HEATER

PLOT DATE



Mechanical Plan



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

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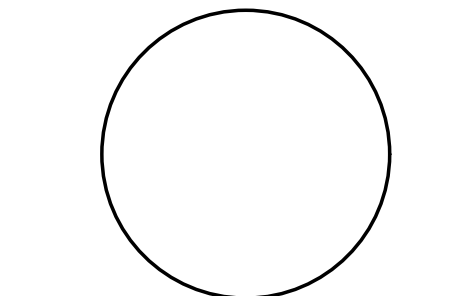
Mechanical Plan

M1.1

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PLOT DATE

SPRINKLER SYSTEM SPECIFICATIONS

PERFORMANCE SPECIFICATION PART I - GENERAL

- I.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 5psi 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.

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)

AUTOMATIC FIRE SPRINKLER MINIMUM WATER SUPPLY ESTIMATE:
REFER TO NFPA 13 FIGURE 11.2.3.1.1 AND TABLE 11.2.3.1.2

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

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

MINIMUM WATER SUPPLY: 17,700 GAL

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

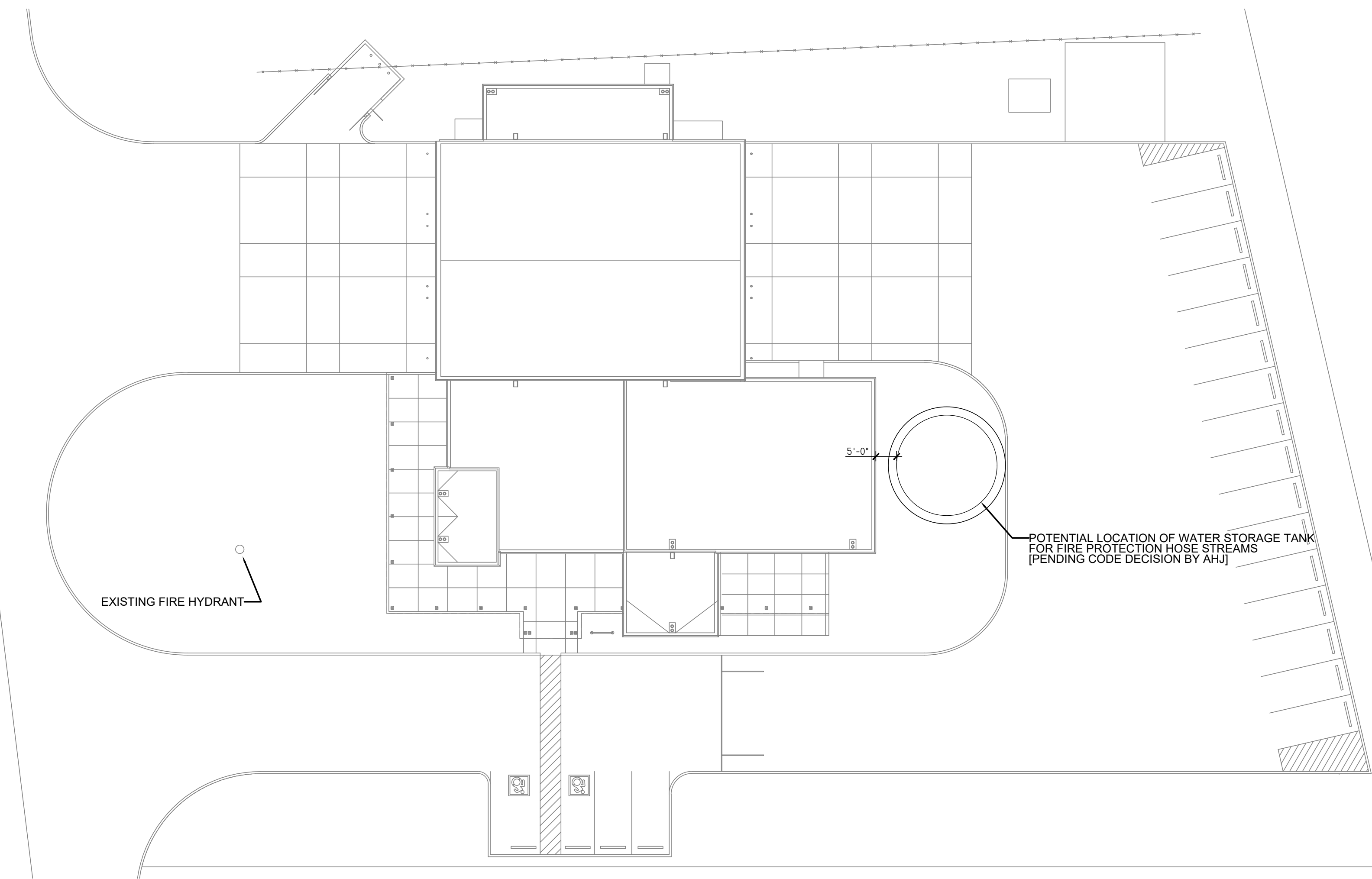
TOTAL WATER FLOW: 565 GPM
MINIMUM WATER SUPPLY DURATION: 90 MINUTES

MINIMUM WATER SUPPLY: 50,850 GAL

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
FRICTION LOSSES: 10 PSI [LARGE DIAMETER PIPING MAY BE REQUIRED]
MARGIN OF SAFETY: 5 PSI (OR 10%, WHICHEVER IS GREATER)

REQUIRED PRESSURE AT SOURCE: 34 PSI



Fire Protection Site Plan

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

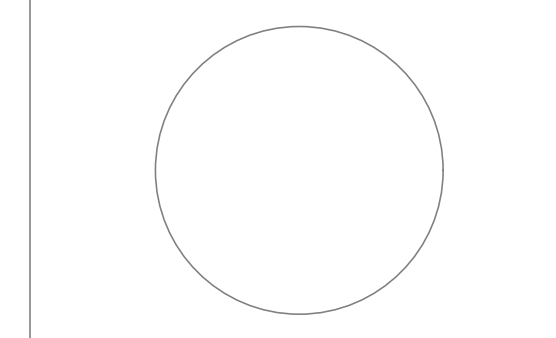


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Project #: 24-215



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



PROJECT NO: 23.21.00
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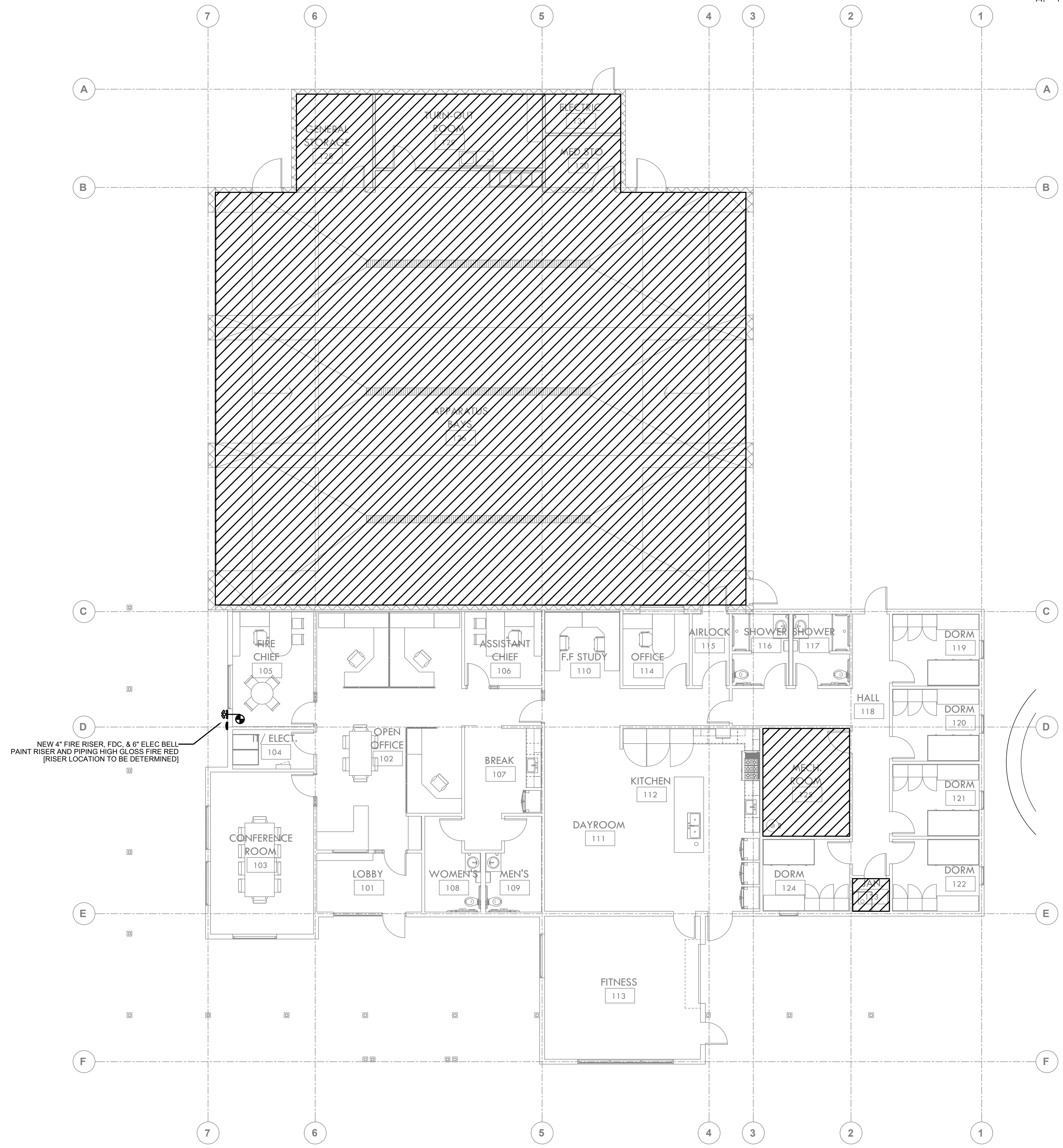
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PLOT DATE



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 FOREMENTIONED 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: WATER STORAGE TANK (IF REQUIRED); PENDING DECISION BY THE FIRE CODE OFFICIAL DESIGN BY OTHERS, MUST MEET ALL MANUAL FIRE FIGHTING AND FIRE FLOW DEMANDS.
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 4" 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.

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Preliminary
 Plans

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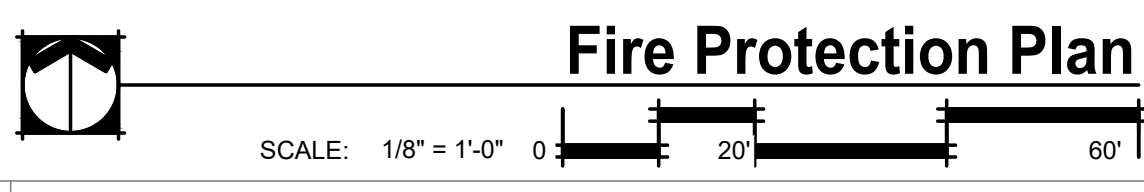
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Fire Protection
 Water Supply

FP-2



KC MECHANICAL
 ENGINEERING, L.L.C.

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

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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

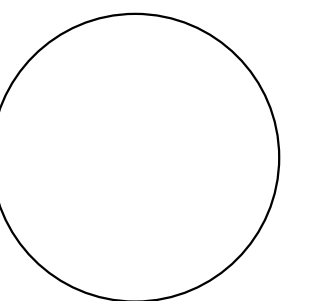
	COMBINATION SMOKE & CO ALARM, BRK SERIES #SMIC0110. PROVIDE INTERCONNECT WIRING BETWEEN SMOKE/CO ALARM AS REQUIRED.
--	---

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Preliminary Plans



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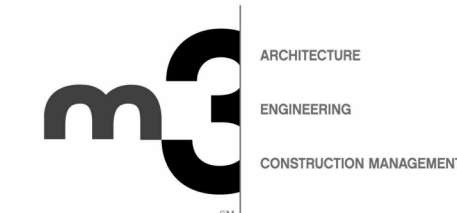
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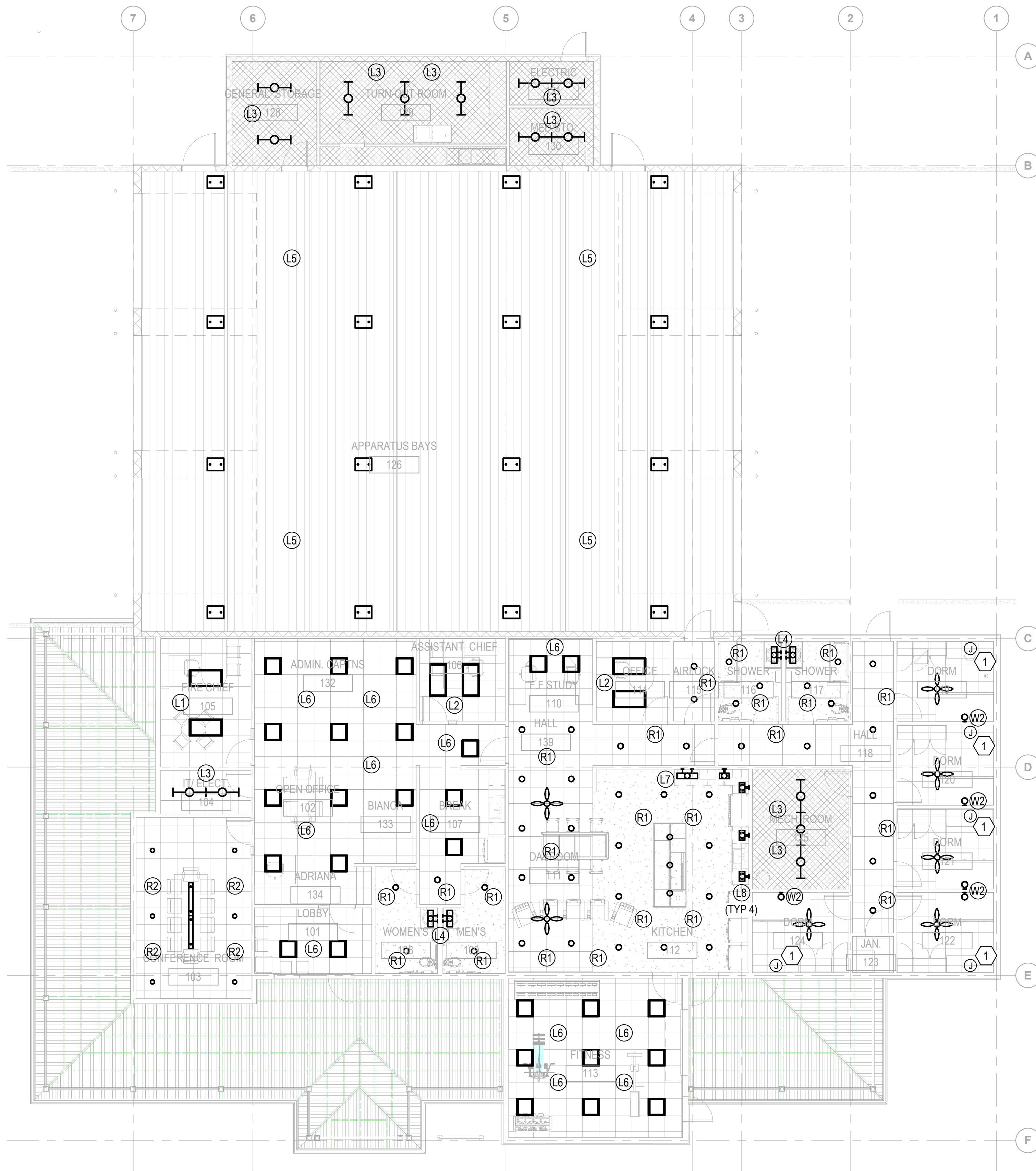
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SYMBOLS,
ABBREVIATIONS,
& NOTES
E001



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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.

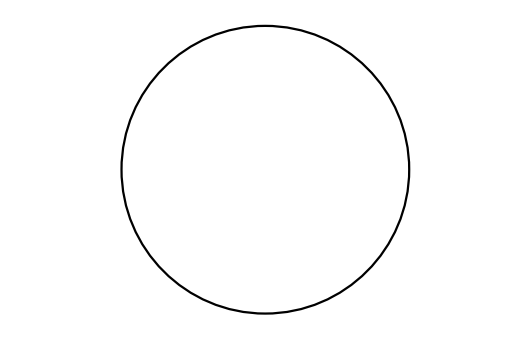
LIGHTING PLAN
SCALE: 1/8" = 1'-0"

1

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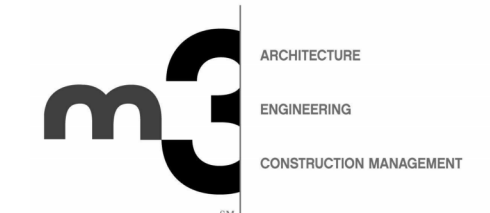
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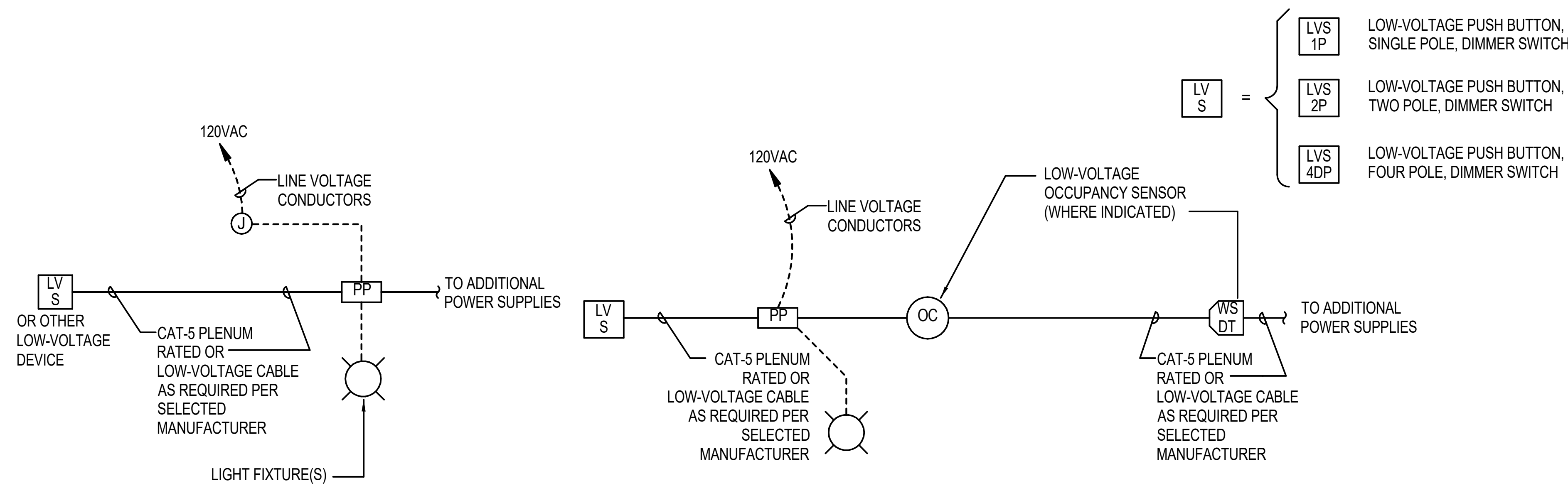
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LIGHTING PLAN
EL101

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:

1. 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.
2. 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.
3. PROVIDE NUMBER OF FIXTURES AS INDICATED ON PLAN. PROVIDE ALL FITTINGS AND ACCESSORIES REQUIRED FOR A COMPLETE SYSTEM.
4. PROVIDE INTEGRAL, 1400 LUMEN, 90 MINUTE BATTERY BACK-UP FOR LIGHTING FIXTURES AS INDICATED ON PLANS.



TYPICAL WALL OCCUPANCY SENSOR CONTROL BLOCK DIAGRAM

N.T.S.

1

TYPICAL LOW-VOLTAGE LIGHTING CONTROL BLOCK DIAGRAM

N.T.S.

2

LOW-VOLTAGE SYSTEM SYMBOLS LEGEND

- 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).
- LOW VOLTAGE PUSH-BUTTON SWITCH, TWO POLE, RAISE/LOWER DIMMING. "a,b" INDICATES LIGHTING ZONE CONTROLLED WITHIN THE SPACE (U.O.N).
- 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

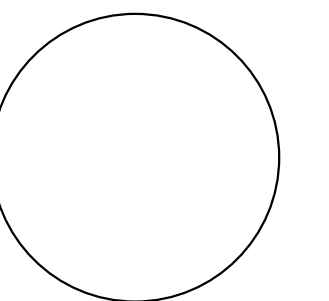
1. COORDINATE WIRING DIAGRAM AND INSTALLATION WITH SUPPLIED LOW-VOLTAGE SENSOR, SWITCH MANUFACTURER PRIOR TO ROUGH-IN.
2. PROVIDE ALL NECESSARY MOUNTING ACCESSORIES, POWER PACKS, RELAYS, ETC. FOR A FULLY OPERATIONAL SYSTEM.
3. SENSORS, POWER PACKS, AND LOW-VOLTAGE SWITCHES SHOWN ON THIS PLAN SHALL BE 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.
4. 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.
5. 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.
6. ACCEPTABLE MANUFACTURERS:
 - nLIGHT
 - WATTSTOPPER 'DLM'
 - COOPER 'GREEN GATE'

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

Preliminary Plans



PROJECT NO:
23.21.00
DATE:
JUNE 2024

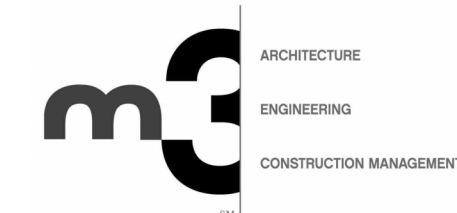
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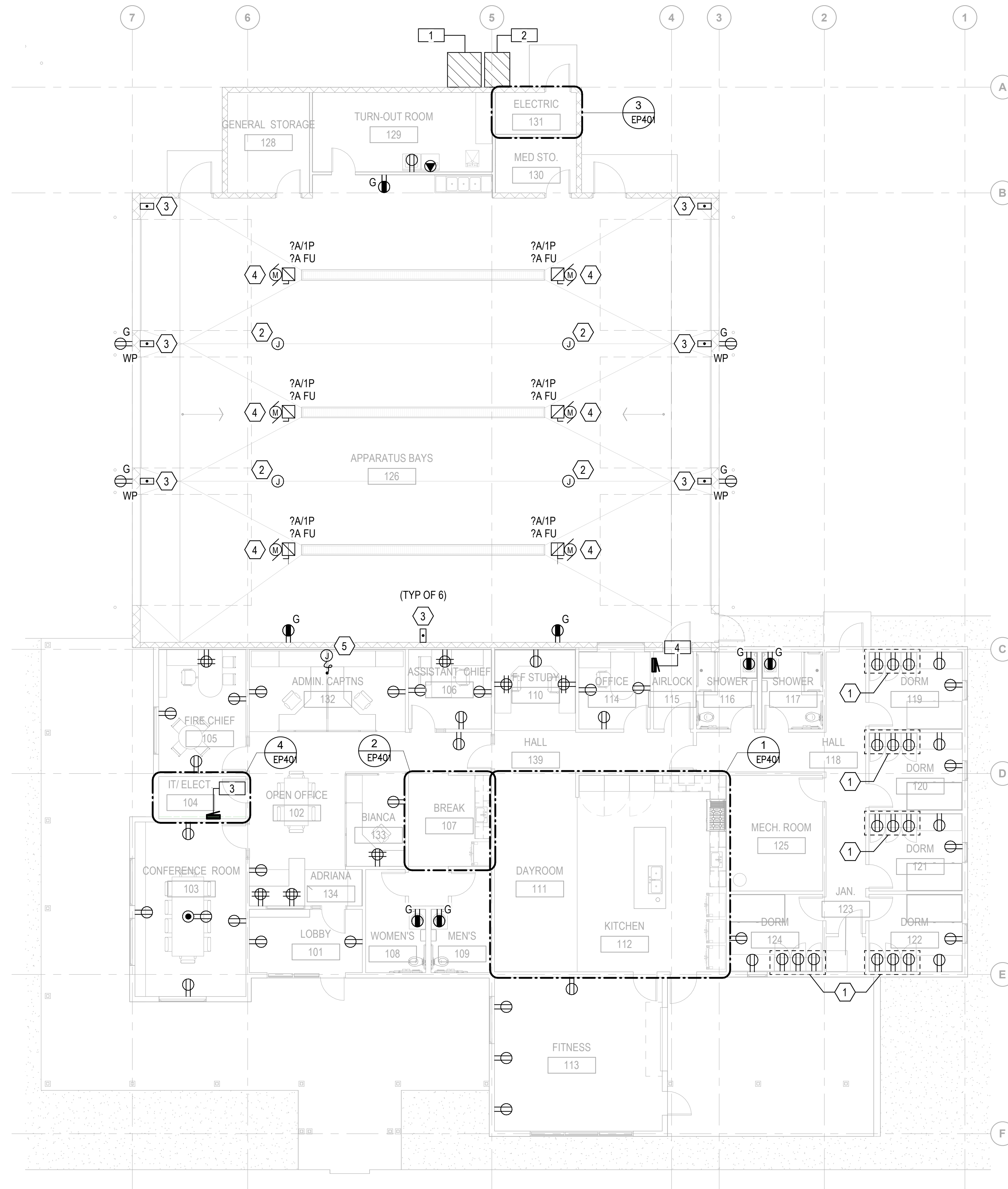
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LIGHT FIXTURE SCHEDULE & CONTROLS
EL701



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:

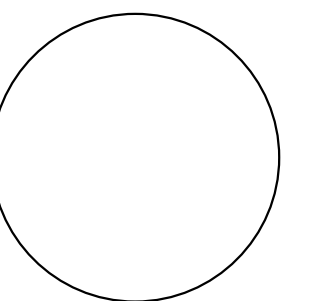
- 1 SERVICE ENTRANCE METER & MCB SECTION 'SES-1'.
- 2 DISTRIBUTION SECTION 'DS-1'.
- 3 PANEL '1T'.
- 4 PANEL 'P3'.

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Tubac Fire Station #1
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Preliminary Plans



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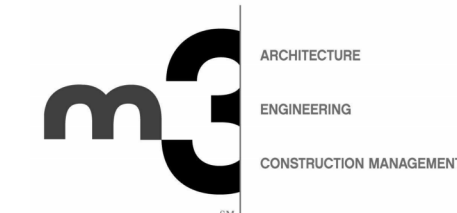
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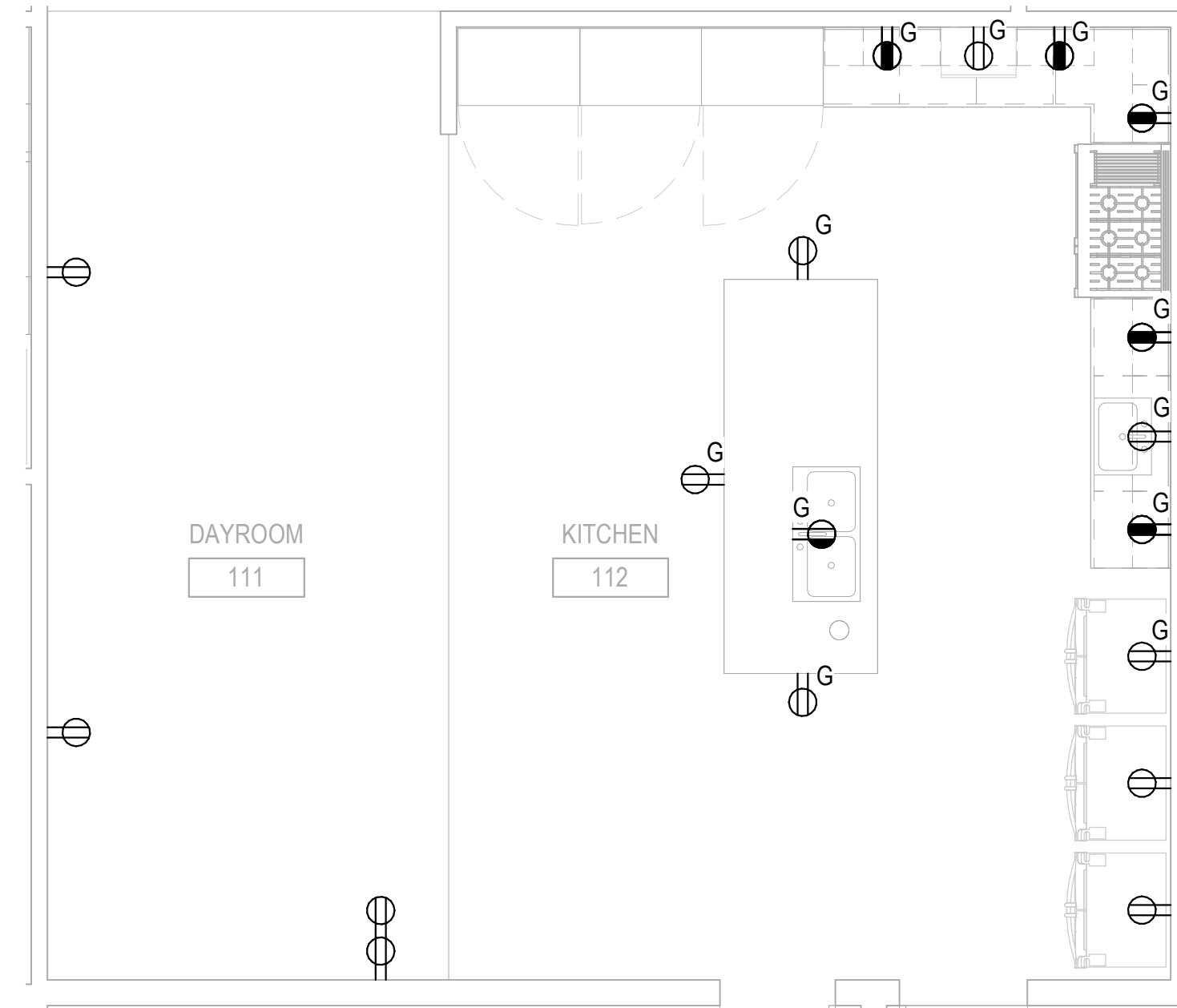
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POWER PLAN

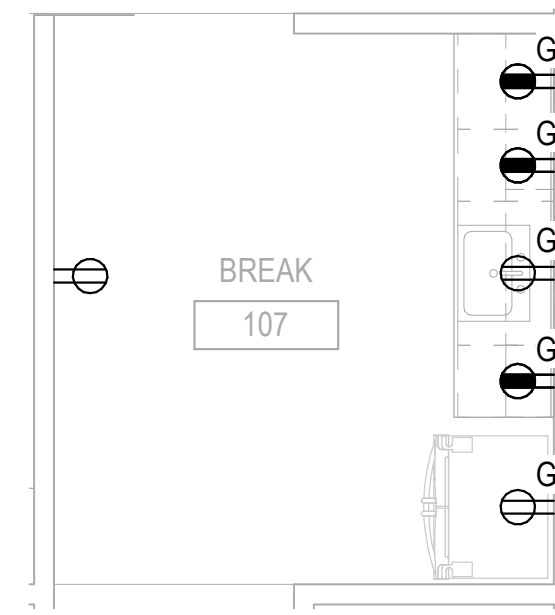
EP101



**ENLARGED KITCHEN
POWER PLAN**

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

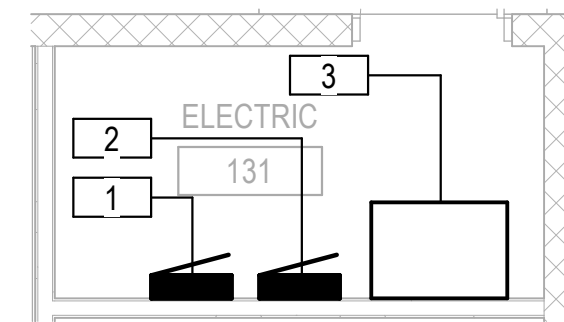
1



**ENLARGED BREAK
RM POWER PLAN**

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

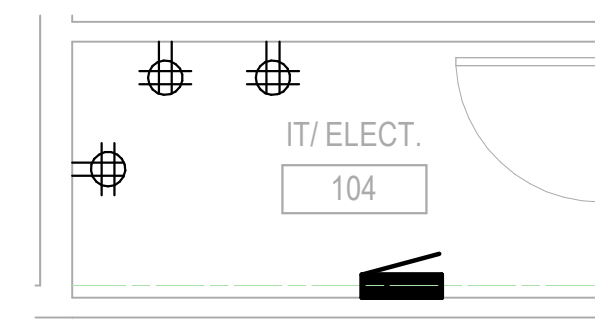
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**ENLARGED ELECTRIC
RM POWER PLAN**

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'.

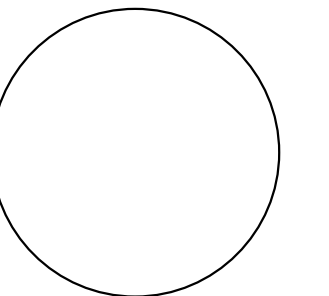


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Tubac Fire Station #1
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Preliminary Plans



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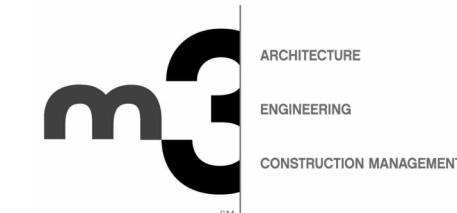
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**ENLARGED
POWER PLANS**

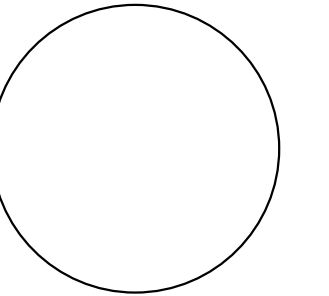
EP401

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Tubac Fire Station #1
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REVISION SCHEDULE:

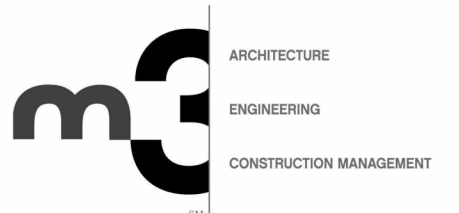
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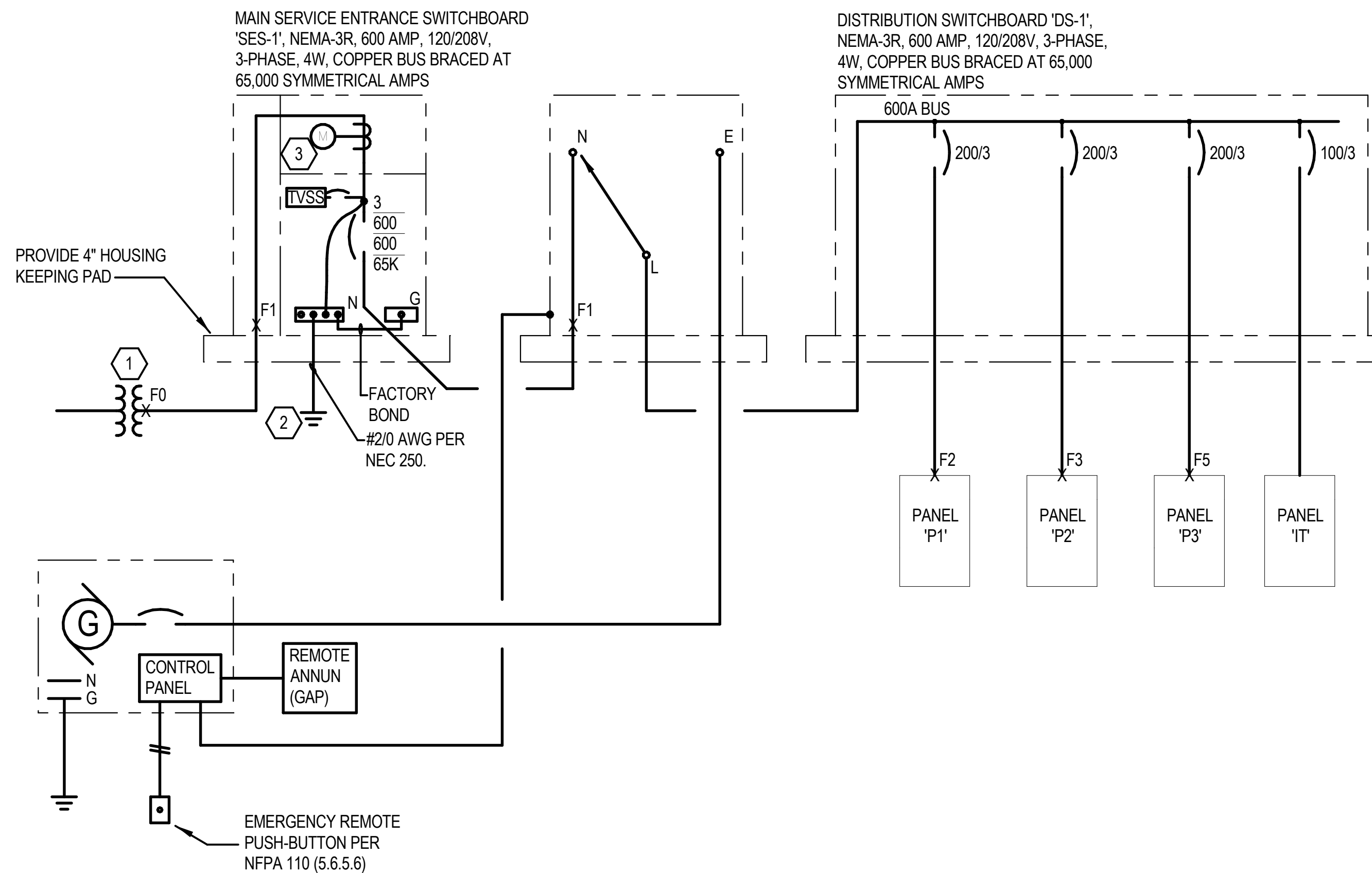
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PANEL
SCHEDULE

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.

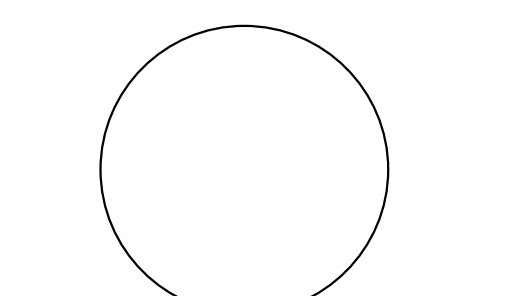
KEYNOTES:

- (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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Tubac Fire Station #1
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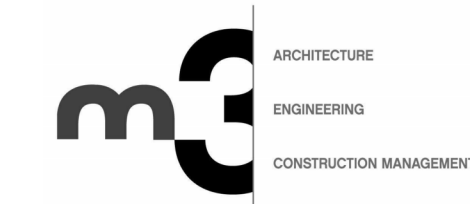
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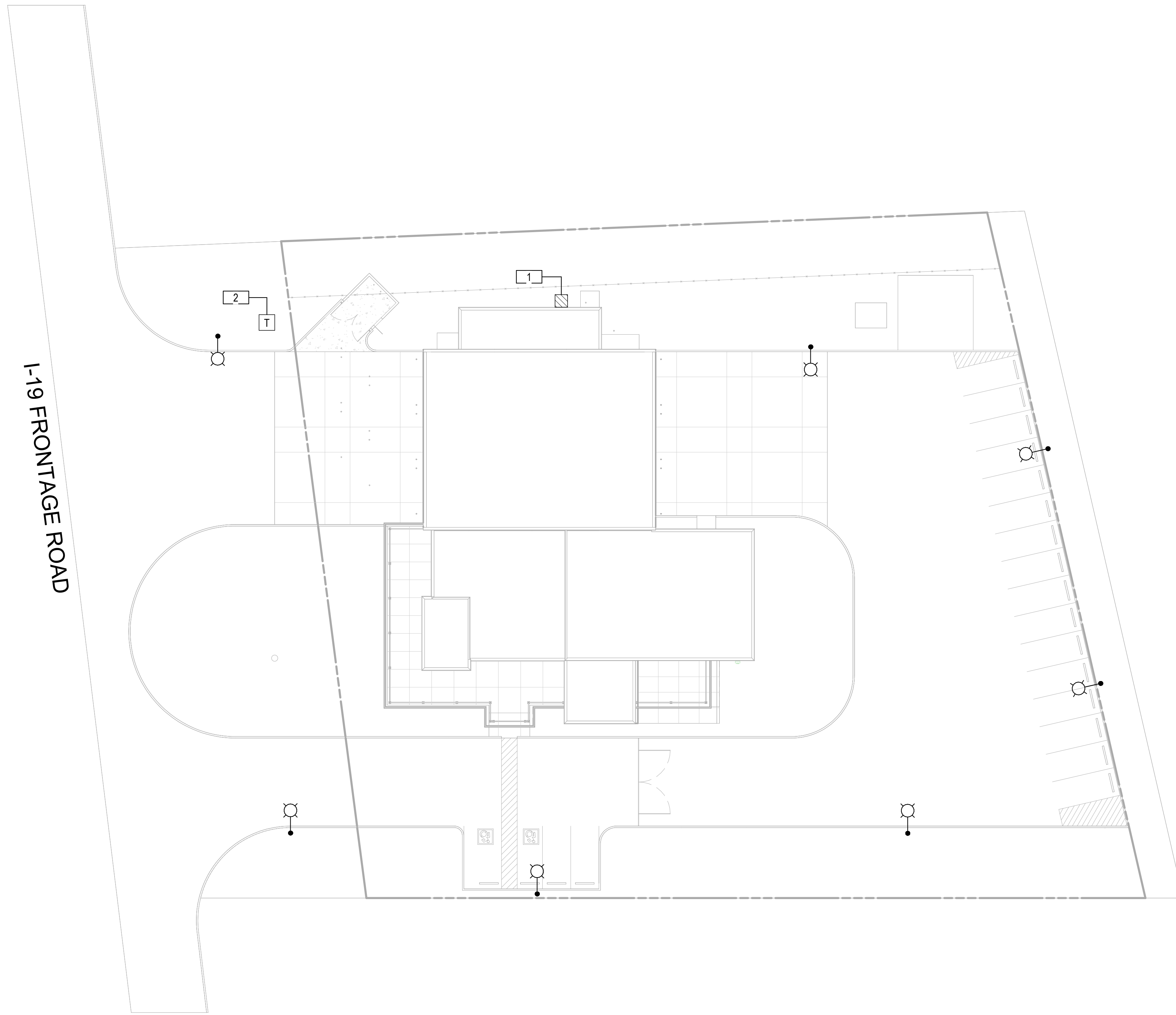
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SINGLE LINE
DIAGRAM

EP701



SITE PLAN

SCALE: 1" = 20'-0"

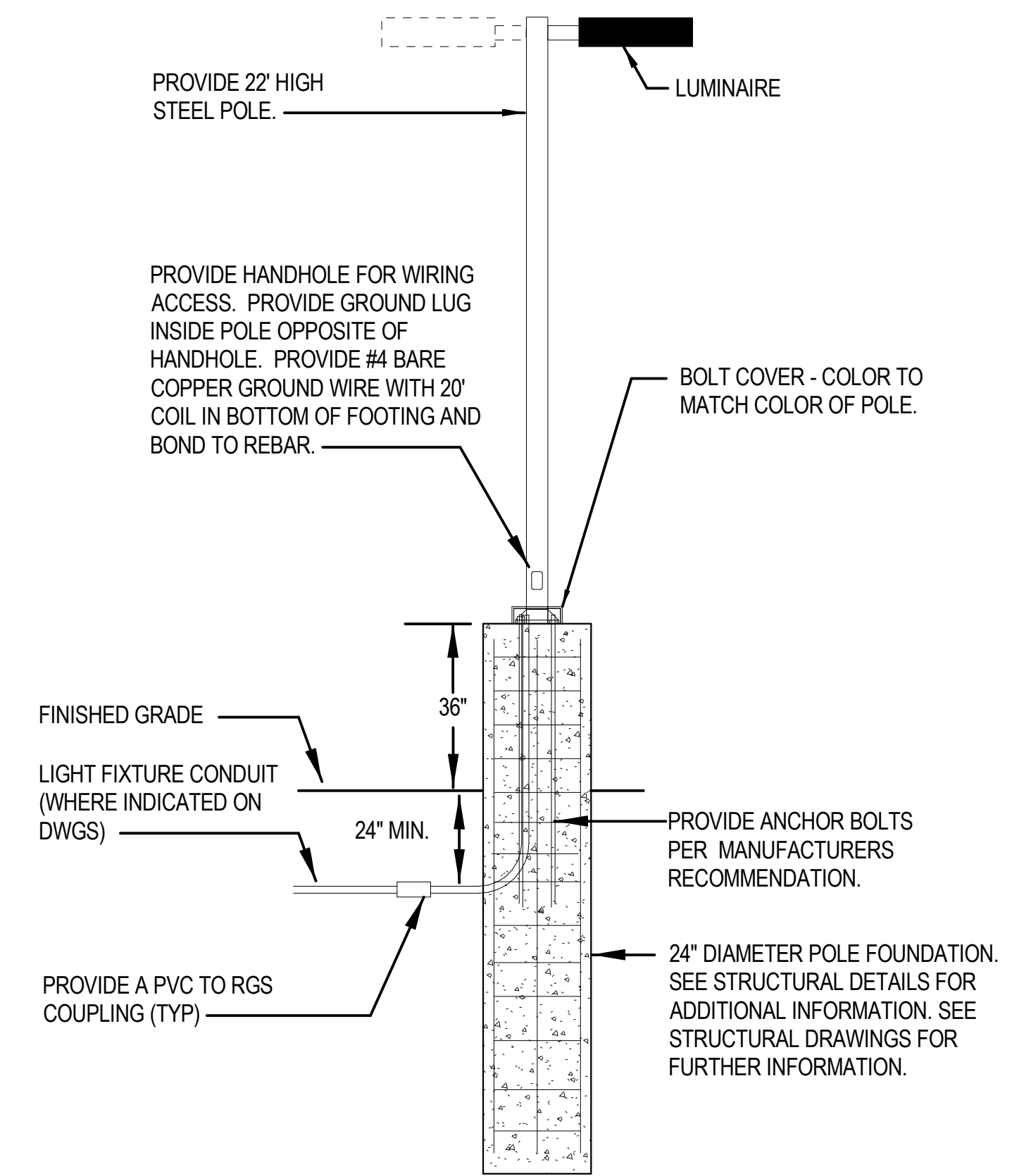
1

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

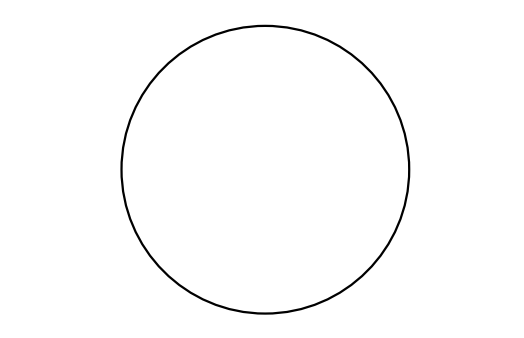
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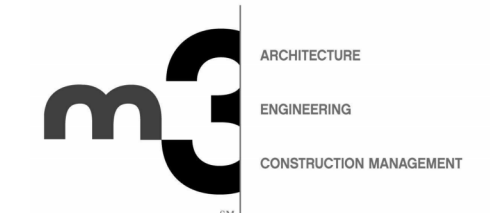
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ELECTRICAL
SITE PLAN
ES101

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

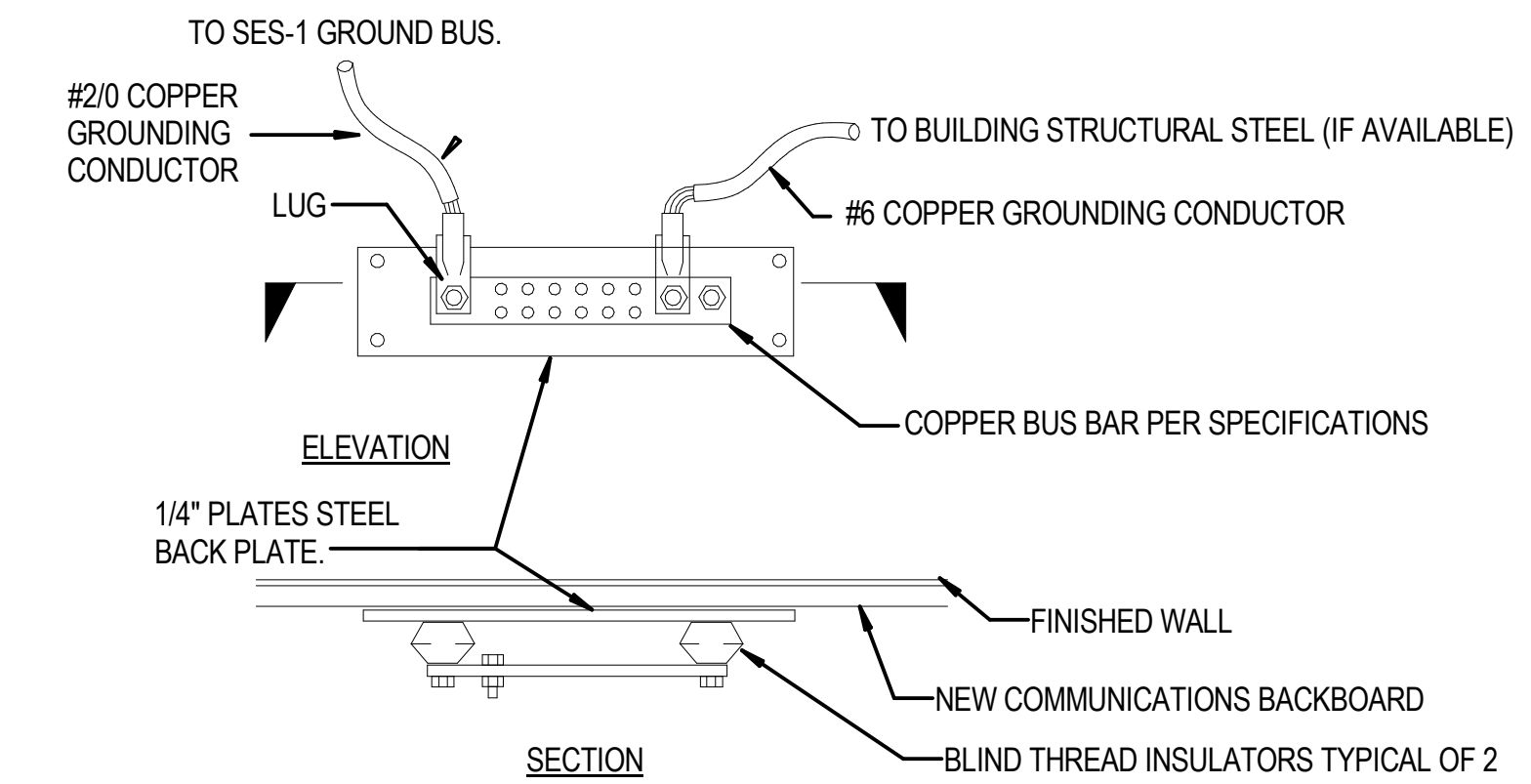
GENERAL NOTES:

- 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).
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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.

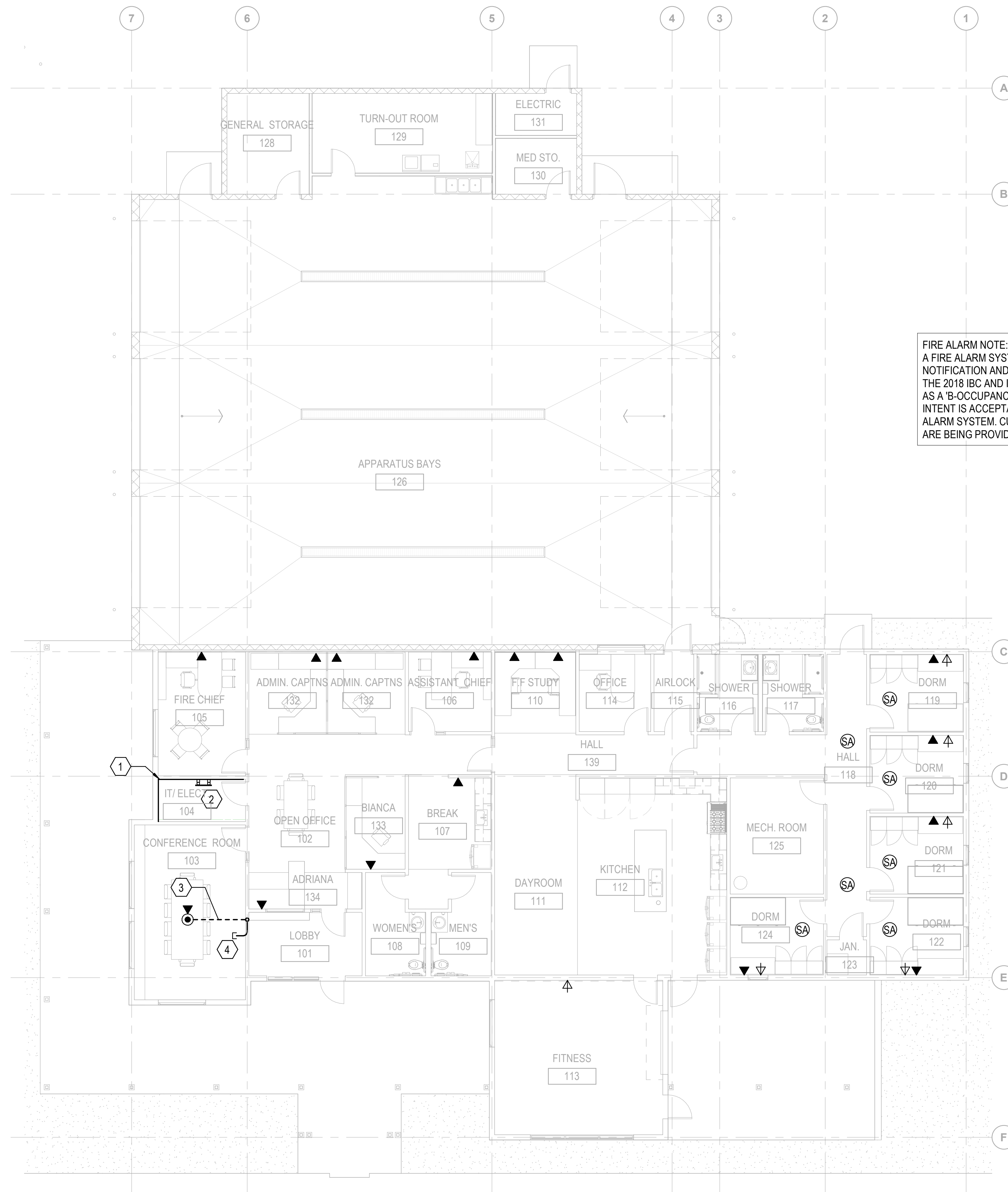
FIRE ALARM NOTE:
A FIRE ALARM SYSTEM CONSISTING OF AUDIO/VISUAL NOTIFICATION AND MANUAL STATIONS ARE NOT REQUIRED PER THE 2018 IBC AND IFC, DUE TO THE BUILDING BEING CLASSIFIED AS A 'B-OCCUPANCY'. OWNER SHALL LET US KNOW IF THE DESIGN INTENT IS ACCEPTABLE OR IF IT IS DESIRED TO DESIGN A FIRE ALARM SYSTEM.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



COMM ROOM GROUND BUS BAR (TMGB)

N.T.S.

2



SPECIAL SYSTEMS PLAN

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

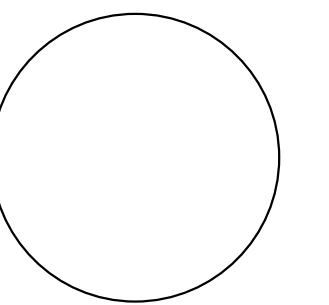
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JUNE 2024

#	DATE	DESCRIPTION	ISSUED TO

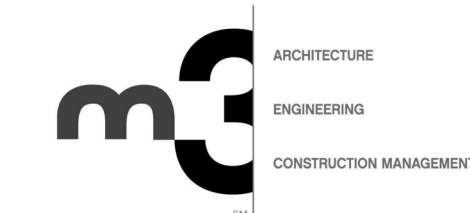
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SPECIAL SYSTEMS PLAN

EY101



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PLOT 7/10/2024 3:31:02 PM

Tubac Fire Station #1

Project Start Date	1/1/2024 (Monday)	Display Week	25
Project Lead	B. Guerrero	Week 25	17 18 19 20 21 22 23 24 25 26 27 28 29 30 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 1 2 3 4 5 6 7 8 9 10 11
		Week 26	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 1 2 3 4 5 6 7 8 9 10 11
		Week 27	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 1 2 3 4 5 6 7 8 9 10 11
		Week 28	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 1 2 3 4 5 6 7 8 9 10 11
		Week 29	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 1 2 3 4 5 6 7 8 9 10 11
		Week 30	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 1 2 3 4 5 6 7 8 9 10 11
		Week 31	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 1 2 3 4 5 6 7 8 9 10 11
		Week 32	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 1 2 3 4 5 6 7 8 9 10 11

WBS	TASK	LEAD	START	END	DAYS	% DONE	WORK DAYS
1	Tubac Fire						
1.1	Move Admin to station 2	J. Conger	Mon 7/01/24	Fri 7/05/24	5	100%	5
1.2	Move Crew to temp quarters	J. Conger	Sat 7/20/24	Sat 7/20/24		25%	0
1.2.1	Move service for IT	H. Guerrero	Wed 7/10/24	Tue 7/23/24	14	50%	10
1.2.2	Move Direct TV	J. Conger					
1.2.3	Move Radio	J. Conger					
1.2.4	USDA Paperwork Completion	B. Guerrero	Sat 6/01/24	Sun 6/30/24	30	90%	20
1.3	Finalize Budget	B. Guerrero					
1.4	Finalize Design plan	B. Guerrero	Fri 9/27/24			0%	1
1.5	GMP contract	B. Guerrero					
2	Breckenridge						
2.1	Notice to proceed	K.Breckenridge	Thu 6/06/24	Thu 6/06/24	1	100%	1
2.2	Preliminary Plans	K.Breckenridge	Fri 6/07/24	Fri 6/28/24	22	100%	16
2.3	Intermediate Plans	K.Breckenridge	Mon 7/01/24	Fri 7/26/24	26	60%	20
2.4	Pre-Final Plans	K.Breckenridge	Mon 7/29/24	Fri 9/27/24	61	0%	45
2.5	QA/ QC Review	K.Breckenridge	Mon 9/23/24	Fri 9/27/24	5	0%	5
2.6	Final Plans	K.Breckenridge	Mon 9/30/24	Fri 10/11/24	12	0%	10
2.7	Permitting	K.Breckenridge				0%	
2.8						0%	
3	DL Norton						
3.1	GMP Proposal	S.Giles				0%	
3.2	Schedule of work	M.Giles				0%	
3.3						0%	
3.4						0%	
3.5						0%	
4	Tower						
4.1	Foundation Pour		Thu 6/13/24	Thu 6/13/24	1	100%	1
4.1.1	Foundation cure		Thu 6/13/24	Fri 7/12/24	30	100%	22
4.2	Tower Build					0%	
4.3	Installation of equipment					0%	
4.4	IT Shed construction					0%	
4.5						0%	