



City of Fitchburg
Planning/Zoning Department
5520 Lacy Road
Fitchburg, WI 53711
(608-270-4200)

ARCHITECTURAL & DESIGN REVIEW APPLICATION

Applicant/Contact Person: Thomas Hovel - City of Fitchburg

Address: 5520 Lacy Road

Phone Number of Contact Person: 608-270-4255

City, State, Zip Code: Fitchburg, WI

Email of Contact Person: Thomas.Hovel@fitchburgwi.gov

Project Address: 2950 South Syene Road

Lot: _____ **Subdivision:** N/A

Project Type: _____ **Multi-Family** _____ **Commercial** _____ **Industrial** _____ **Municipal Fire Station** _____ **Other**
_____ **New** _____ **Addition**

Impervious Surface Ratio (ISR): 38.4% (City Standard: maximum 65% ISR)

All items listed below must be included with the application to be considered complete. If an item is not included with the application, the applicant must provide in writing the basis for not including it. Building and site plans submitted to the Fitchburg Plan Commission for architectural and design review shall contain the following information:

Site Data:

- ☐ 1. Lot or property dimensions.
- ☐ 2. Orientation (to north).
- ☐ 3. Adjacent highways, roads, drive, etc.
- ☐ 4. Existing natural features (rivers, ponds, wetlands).
- ☐ 5. Existing buildings and/or improvements.
- ☐ 6. Existing and proposed site drainage.
- ☐ 7. Utility plans, including main/lateral sizes and existing fire hydrants on site or within 300 feet of the site
- ☐ 8. ISR shall be indicated on all plans.
- ☐ 9. Stormwater management plans and details.
- ☐ 10. Lighting plan in footcandles and light fixture cut sheets.

Building:

- ☐ 1. Building size, configuration and orientation.
- ☐ 2. Distance from lot lines.
- ☐ 3. Distance from other buildings, improvements and natural features.
- ☐ 4. Location of well, septic tank, drainfield, etc. (if applicable)
- ☐ 5. Additional proposed additions or new structures.
- ☐ 6. Construction type (wood frame, structural steel, etc.).
- ☐ 7. Foundation type (full basement, slab on grade, etc.).
- ☐ 8. Number of levels.
- ☐ 9. Siding/exterior covering type, color, texture, etc.
- ☐ 10. Roof type (gable, hip, shed, flat, etc.) and pitch.
- ☐ 11. Roofing material type, color, texture, etc.
- ☐ 12. Exterior door and window location, size, type, etc.
- ☐ 13. Fire protection sprinklers or fire alarm systems.

Ingress, Egress, Parking:

- ☐ 1. Location of highway and road access points.
- ☐ 2. Location, size, configuration of drivers and walks.
- ☐ 3. Number, size, location of parking spaces.
- ☐ 4. Location of handicapped parking and accessible building entrances.
- ☐ 5. Bicycle rack(s).

Landscaping:

- ☐ 1. Location, species, size of existing trees, shrubs, and plantings.
- ☐ 2. Location, species, size of proposed plantings.
- ☐ 3. Location and size of all paved, seeded/sodded and gravelled areas.
- ☐ 4. Location of all retaining walls, fences, berms and other landscape features.

***It is highly recommended that an applicant hold at least one neighborhood meeting prior to submitting an ADR application to identify any concerns or issues of surrounding residents.**

The preceding information is considered to be the minimum information for submission, and the City may require additional information for its review. Any interpretations provided by city officials as the result of submitting the attached information are based on the submitted plans, and any plan changes, may affect the interpretations.

It is the responsibility of the owner/applicant to insure compliance with all local and state requirements. The below signed applicant acknowledges the above information and hereby submits the attached information for the City's Architectural and Design Review Process.

Signed: _____ **Date:** _____
Applicant or Authorized Agent

***** Application shall be accompanied by one (1) sets of full-size plans, two (2) sets no larger than 11"x17", and one (1) pdf document of the complete submittal to planning@fitchburgwi.gov. Applications are due at least 4 weeks prior to the desired Plan Commission Meeting. The time frame assumes a complete set of plans is provided, and if it is not provided the Plan Commission date will be adjusted.**

FOR CITY USE ONLY

Date Received: _____ **Plan Commission Date:** _____

Comments:

CITY OF FITCHBURG

FITCHBURG EAST FIRE STATION

2950 SOUTH SYENE ROAD,
FITCHBURG, WI

PROJECT LOCATION



PROJECT DIRECTORY

OWNER:	City of Fitchburg Thomas Hovel 5520 Lacy Road Fitchburg, WI 53711 608.270.4200
CIVIL:	Short Elliott Hendrickson, Inc.
PROJECT MANAGER:	Igor Vaynberg 501 Maple Avenue Delafield, WI 53018 262.646.6855
GEO THERMAL:	Sustainable Engineering Group
PROJECT MANAGER:	Andy DeRocher 7475 Hubbard Avenue, Suite 201 Middleton, WI 53562 608.836.4488
LANDSCAPE:	Ken Saiki Designs
PROJECT MANAGER:	Ken Saiki 1110 South Park Street Madison, WI 53715 608.251.3600
STRUCTURAL ENGINEER:	Short Elliott Hendrickson, Inc.
PROJECT MANAGER:	Ben Wolf 717 Third Avenue SE, Suite 101 Rochester, MN 55904 507.288.6464
ARCHITECT:	Short Elliott Hendrickson, Inc.
PROJECT MANAGER:	Trevor Frank 425 West Water Street, Suite 300 Appleton, WI 54911 920.380.2800
PLUMBING ENGINEER:	Muermann Engineering, LLC
PROJECT MANAGER:	Justin Monk W227 N16867 Tillie Lake Court, Suite 202 Jackson, WI 53037 920.894.7800
MECHANICAL ENGINEER:	Fredericksen Engineering
PROJECT MANAGER:	Randy All 12308 Corporate Parkway, Suite 400 Mequon, WI 53092 262.243.9090
ELECTRICAL ENGINEER:	Muermann Engineering, LLC
PROJECT MANAGER:	Laura Gilbert 116 Fremont Street P.O. Box 235 Kiel, WI 53042 920.894.7800

PROJECT INFORMATION

OCCUPANCY TYPE:	TYPE A-3 (ASSEMBLY) TYPE B (BUSINESS) TYPE R-2 (RESIDENTIAL) TYPE S-2 (STORAGE)
CONSTRUCTION TYPE:	TYPE IIB SPRINKLERED
SCOPE OF WORK SQUARE FOOTAGE:	26,832 SQUARE FEET
PROJECT DESCRIPTION:	CONSTRUCTION OF A NEW FIRE STATION FACILITY
1.	ALL CONSTRUCTION SHALL BE ACCORDING TO STATE AND LOCAL CODES.
2.	ALL CONTRACTORS SHALL VERIFY EXISTING CONDITIONS AND NOTIFY THE ARCHITECT OF ANY DISCREPANCIES.
3.	ALL CONTRACTORS SHALL FAMILIARIZE THEMSELVES WITH THE CONSTRUCTION DOCUMENTS AND NOTIFY THE ARCHITECT OF ANY DISCREPANCIES.
4.	VERIFY LOCATION, SIZE, AND WALL THICKNESS REQUIRED TO RECESS MECHANICAL AND ELECTRICAL ITEMS AND MAINTAIN FIRE RATING REQUIREMENTS OF THE WALL AT PIPING AND ALL OTHER SUCH RECESSES.
5.	DO NOT SCALE DRAWINGS FOR DIMENSIONS.
6.	ALL WOOD FRAMING AND BLOCKING CONCEALED IN CEILINGS AND PARTITIONS SHALL BE FIRE RETARDANT TREATED.

STAMPS

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E100A	SITE PLAN - PHOTOMETRIC



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ARCHITECTURAL
& DESIGN
REVIEW

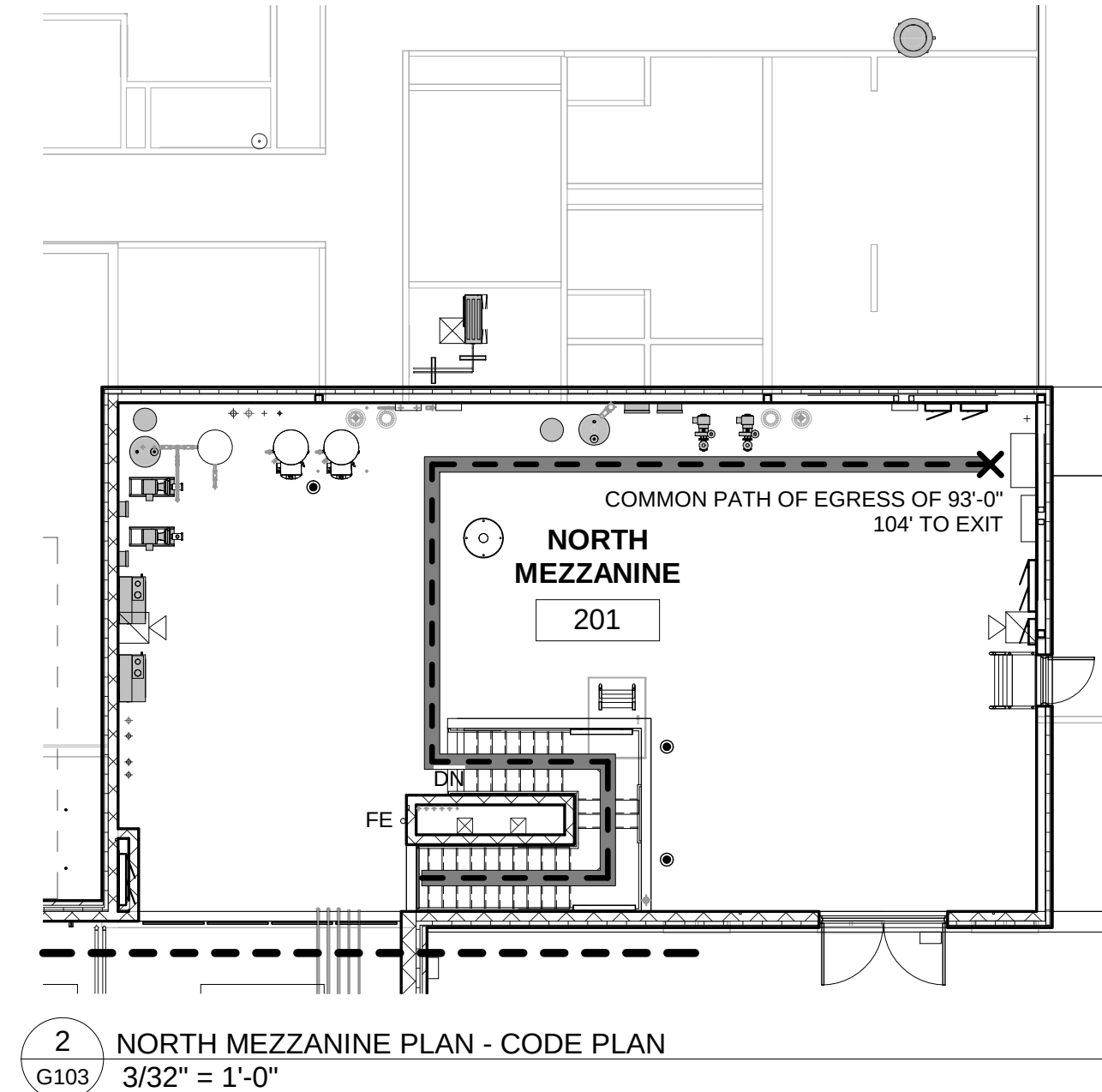
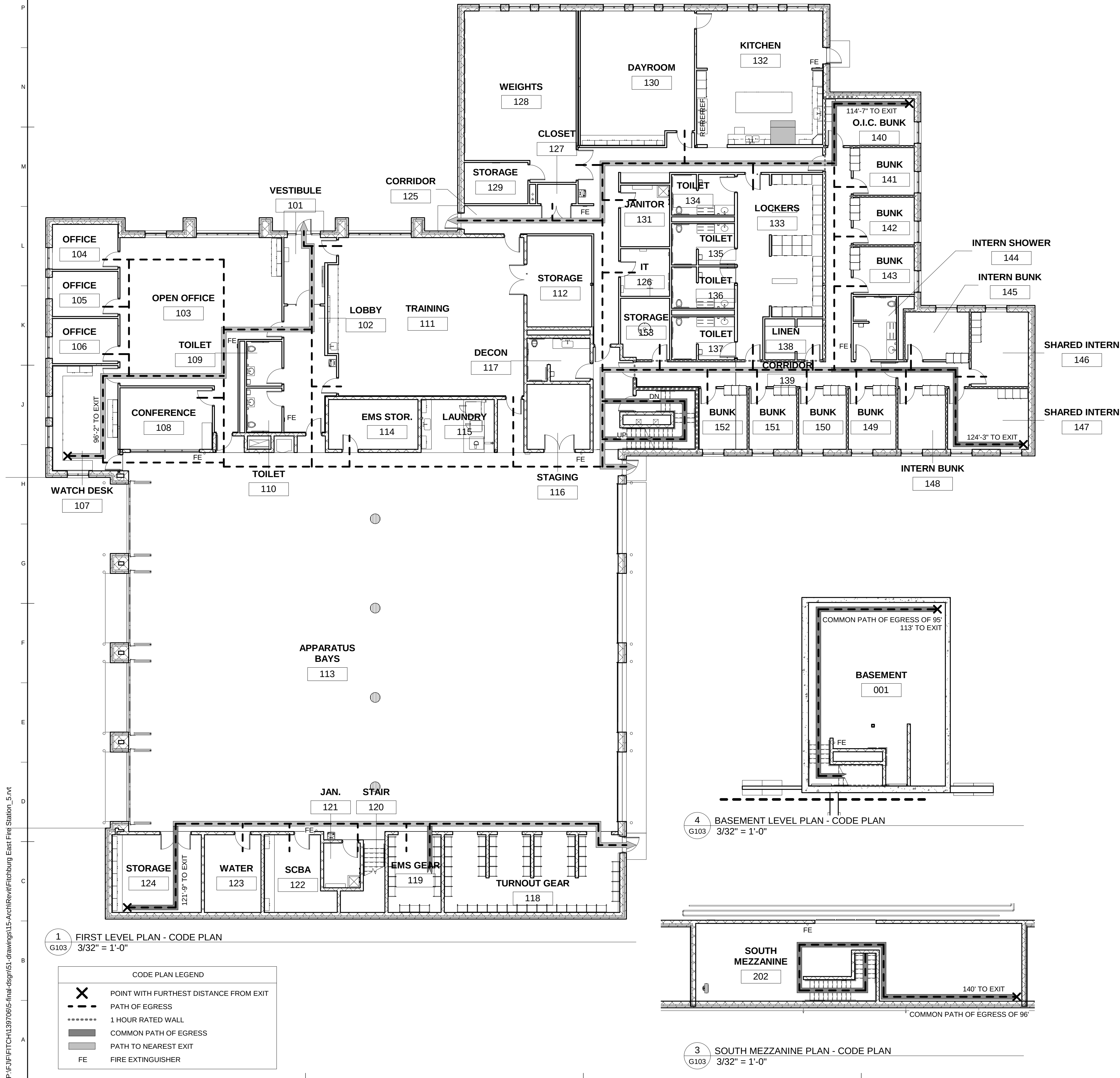
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CITY OF FITCHBURG
FITCHBURG EAST
FIRE STATION
2950 SOUTH SYENE ROAD, FITCHBURG, WI

SEH FILE NO. FITCH 139706
ISSUE DATE JANUARY 23, 2018
DESIGN BY TMF
DRAWN BY MJZ
PROJECT MGR TMF
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SHEET CONTENTS
COVER SHEET

G101



ROOM NO.	ROOM NAME	AREA	FUNCTION OF SPACE	OCCUPANCY FACTOR	CODE CAPACITY
001	BASEMENT	973 SF	BUSINESS	100 SF	10
101	VESTIBULE	122 SF	CIRCULATION	0 SF	0
102	LOBBY	229 SF	CIRCULATION	0 SF	0
103	OPEN OFFICE	937 SF	BUSINESS	100 SF	10
104	OFFICE	120 SF	BUSINESS	100 SF	2
105	OFFICE	120 SF	BUSINESS	100 SF	2
106	OFFICE	120 SF	BUSINESS	100 SF	2
107	WATCH DESK	281 SF	BUSINESS	100 SF	3
108	CONFERENCE	231 SF	ASSEMBLY	15 SF	16
109	TOILET	64 SF	SANITARY	0 SF	0
110	TOILET	63 SF	SANITARY	0 SF	0
111	TRAINING	1230 SF	ASSEMBLY	15 SF	82
112	STORAGE	240 SF	STORAGE	300 SF	1
113	APPARATUS BAYS	7941 SF	PARKING	200 SF	40
114	EMS STOR.	181 SF	STORAGE	300 SF	1
115	LAUNDRY	157 SF	ACCESSORY	300 SF	1
116	STAGING	166 SF	SANITARY	0 SF	0
117	DECON	108 SF	ACCESSORY	300 SF	1
118	TURNOUT GEAR	550 SF	ACCESSORY	300 SF	2
119	EMS GEAR	172 SF	ACCESSORY	300 SF	1
120	STAIR	84 SF	CIRCULATION	0 SF	0
121	JAN.	67 SF	ACCESSORY	300 SF	1
122	SCBA	193 SF	ACCESSORY	300 SF	1
123	WATER	179 SF	MECHANICAL	300 SF	1
124	STORAGE	282 SF	STORAGE	300 SF	1
125	CORRIDOR	626 SF	STORAGE	300 SF	3
126	IT	95 SF	STORAGE	300 SF	1
127	CLOSET	30 SF	STORAGE	300 SF	1
128	WEIGHTS	720 SF	EXERCISE	50 SF	15
129	STORAGE	106 SF	STORAGE	300 SF	1
130	DAYROOM	606 SF	BUSINESS	100 SF	7
131	JANITOR	122 SF	ACCESSORY	300 SF	1
132	KITCHEN	682 SF	BUSINESS	100 SF	7
133	LOCKERS	533 SF	LOCKER ROOM	50 SF	11
134	TOILET	103 SF	SANITARY	0 SF	0
135	TOILET	104 SF	SANITARY	0 SF	0
136	TOILET	104 SF	SANITARY	0 SF	0
137	TOILET	109 SF	SANITARY	0 SF	0
138	LINEN	95 SF	STORAGE	300 SF	1
139	CORRIDOR	484 SF	STORAGE	300 SF	2
140	O.I.C. BUNK	169 SF	BUSINESS	100 SF	2
141	BUNK	118 SF	RESIDENTIAL	200 SF	1
142	BUNK	118 SF	RESIDENTIAL	200 SF	1
143	BUNK	118 SF	RESIDENTIAL	200 SF	1
144	INTERN SHOWER	110 SF	SANITARY	0 SF	0
145	INTERN BUNK	124 SF	RESIDENTIAL	200 SF	1
146	SHARED INTERN	173 SF	RESIDENTIAL	200 SF	1
147	SHARED INTERN	199 SF	RESIDENTIAL	200 SF	1
148	INTERN BUNK	117 SF	RESIDENTIAL	200 SF	1
149	BUNK	117 SF	RESIDENTIAL	200 SF	1
150	BUNK	117 SF	RESIDENTIAL	200 SF	1
151	BUNK	117 SF	RESIDENTIAL	200 SF	1
152	BUNK	118 SF	RESIDENTIAL	200 SF	1
153	STORAGE	120 SF	STORAGE	300 SF	1
201	NORTH MEZZANINE	1773 SF	MECHANICAL	300 SF	6
202	SOUTH MEZZANINE	1018 SF	STORAGE	300 SF	4

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Code Review 2009 International Building Code (I.B.C.)
Project: Fitchburg East Fire Station

CHAPTER 3 - USE AND OCCUPANCY CLASSIFICATION

Occupancy Classification:
Type: A-3 (Training / Polling)
Type: B (Fire Station)
Type: R-2 (Bunk Rooms)
Type: S-2 (Apparatus Bays)

Nonseparated Uses between A-3, B, and S-2 (Use most restrictive)

CHAPTER 4 - SPECIAL DETAILED REQUIREMENTS BASED ON USE AND OCCUPANCY

SECTION 420 - GROUPS I-2, R-1, R-2, R-3
420.2 Separation walls.
Walls separating dwelling units in the same building, walls separating sleeping units in the same building and wall separating dwelling or sleeping units from other occupancies contiguous to them in the same building shall be constructed as fire partitions in accordance with Section 709.

CHAPTER 5 - GENERAL BUILDING HEIGHTS AND AREAS

Construction Type: Type IIB
Occupancy Type: Type A-3 (Most Restrictive)
Buiding Area Modifications
Sprinkler Increase 300%: 9500 x 3 = 28,500 s.f.

SECTION 505 - MEZZANINES

505.2 Area Limitation.
The aggregate areas of a mezzanine or mezzanines within a room shall not exceed one-third of the floor areas of that room or space in which they are located. The enclosed portion of a room shall not be included in a determination of the floor area of the room in which the mezzanine is located. In determining the allowable mezzanine area, the area of the mezzanine shall not be included in the floor area of the room.

Exceptions:
2. The aggregate area of the mezzanines in buildings and structures of Type I or II construction shall not exceed one-half of the floor area of the room in buildings and structures equipped throughout with an approved automatic sprinkler system in accordance with Section 903.3.1.1 and an approved emergency voice / alarm communication system in accordance with Section 907.5.2.2.

505.3 Egress.
Each occupant of a mezzanine shall have access to at least two independent means of egress where the common path of egress travel exceeds the limitation of Section 1014.3. Where a stairway provides a means of exit access from a mezzanine, the maximum travel distance includes the distances traveled on the stairway measured in the plane of the tread nosing. Accessible means of egress shall be provided in accordance with Section 1007.

Exceptions:
A single means of egress shall be permitted in accordance with Section 1015.1.

505.4 Openness.
A mezzanine shall be open and unobstructed to the room in which such mezzanine is located except for walls not more than 42" high, columns and posts.

Exceptions:
1. Mezzanines or portions thereof are not required to be open to the room in which the mezzanines are located provided that the occupant load of the aggregate area of the enclosed space does not exceed 10.

SECTION 508 - MIXED USE AND OCCUPANCY
508.3 Nonseparated occupancies.
Buildings or portions of buildings that comply with the provisions of this section shall be considered as nonseparated occupancies.

508.3.1 Occupancy classification.
Nonseparated occupancies shall be individually classified in accordance with Section 302.1. The requirements of this code shall apply to each portion of the building based on the occupancy classification of that space except that the most restrictive applicable provisions of Section 403 and Chapter 9 shall apply to the building or portion thereof in which the nonseparated occupancies are located.

508.3.2 Allowable building area and height.
The allowable building area and height of the building or portion thereof shall be based on the most restrictive allowances for the occupancy groups under consideration for the type of construction of the building in accordance with Section 503.1

508.3.3 Separation.
No separation is required between nonseparated occupancies.

Exceptions:
2. Group I-1, R-1, R-2 and R-3 dwelling units and sleeping units shall be separated from other dwelling or sleeping units and from other occupancies contiguous to them in accordance with the requirements of Section 420.

CHAPTER 6 - TYPES OF CONSTRUCTION

Type IIB Sprinklered:
Fire-resistance rating requirements for building elements (hours)
Primary structural frame: 0 hours
Bearing walls
Exterior: 0 hours
Interior: 0 hours
Nonbearing walls and partitions
Exterior: 0 hours
Interior: 0 hours
Floor construction and secondary members: 0 hours
Roof construction and secondary members: 0 hours

CHAPTER 7 - FIRE AND SMOKE PROTECTION FEATURES

SECTION 709 - FIRE PARTITIONS
709.1 General.
The following wall assemblies shall comply with this section.
2. Walls separating sleeping units in the same building as required by Section 420.2.

709.2 Materials.
The walls shall be of materials permitted by the building type of construction.

709.3 Fire-resistance rating.
Fire partitions shall have a fire-resistance rating of not less than 1 hour.

Exceptions:
2. Dwelling unit and sleeping unit separations in buildings of Type IIB, IIIB and VB construction shall have fire-resistance ratings of not less than 1/2 hour in buildings equipped throughout with an automatic sprinkler system in accordance with Section 903.3.1.1.

CHAPTER 8 - INTERIOR FINISHES

TABLE 803.9 - INTERIOR WALL AND CEILING FINISH REQUIREMENTS BY OCCUPANCY
Exit enclosures and exit passageways: Class B
Corridors: Class B
Rooms and enclosed spaces: Class C

CHAPTER 9 - FIRE PROTECTION SYSTEMS

SECTION 903 - AUTOMATIC SPRINKLER SYSTEMS
903.2 Where required.
Approved automatic sprinkler systems in new buildings and structures shall be provided in the locations described in Section 903.2.1 through 903.2.12.

903.2.10.1 Commercial parking garages.
An automatic sprinkler system shall be provided throughout buildings used for storage of commercial trucks or buses where the fire area exceeds 5,000 square feet.

903.2.11.1 Stories without openings.
An automatic sprinkler system shall be installed throughout all stories, including basements, of all buildings where the floor area exceeds 1,500 square feet and where there is not provided at least one of the following types of exterior wall openings:
1. Openings below grade that lead directly to ground level by an exterior stairway complying with Section 1009 or an outside ramp complying with Section 1010. Openings shall be located in each 50 linear feet, or fraction thereof, of exterior wall in the story on at least one side. The required openings shall be distributed such that the lineal distance between adjacent openings does not exceed 50 feet.

2. Openings entirely above the adjoining ground level totaling at least 20 square feet in each 50 linear feet, or fraction thereof, of exterior wall in the story on at least one side. The required openings shall be distributed such that the lineal distance between adjacent openings does not exceed 50 feet.

903.2.11.3 Basements.
Where any portion of a basement is located more than 75 feet from openings required by Section 903.2.11.1, the basement shall be equipped throughout with an approved automatic sprinkler system.

SECTION 906 - PORTABLE FIRE EXTINGUISHERS
906.1 Where required.
Portable fire extinguishers shall be installed in the following locations.
1. In new and existing Group A, B, E, F, H, I, M, R-1, R-2, R-4 and S occupancies.

SECTION 907 - FIRE ALARM AND DETECTION SYSTEMS
907.5 Occupant notification systems.
A fire alarm system shall annunciate at the panel and shall initiate occupant notification upon activation, in accordance with Section 907.5.1 through 907.5.2.3.4. Where a fire alarm system is required by another section of this code, it shall be activated by:

- Automatic fire detectors.
- Sprinkler waterflow devices.
- Manual fire alarm boxes.
- Automatic fire-extinguishing systems.

Exception:
Where notification systems are allowed elsewhere in Section 907 to annunciate at a constantly attended location.

SECTION 912 - FIRE DEPARTMENT CONNECTIONS
912.1 Installation.
Fire department connections shall be installed in accordance with the NFPA standard applicable to the system design and shall comply with sections 912.2 through 912.5.

CHAPTER 10 - MEANS OF EGRESS

SECTION 1005 - EGRESS WIDTH
1005.1 Minimum required egress width.
The means of egress width shall not be less than required by this section. The total width of means of egress in inches shall not be less than the total occupant load served by the means of egress multiplied by 0.3 inches per occupant for stairways and by 0.2 inches per occupant for other egress components. The width shall not be less than specified elsewhere in this code. Multiple means of egress shall be sized such that the loss of any one means of egress shall not reduce the available capacity to less than 50 percent of the required capacity. The maximum capacity required from any story of a building shall be maintained to the termination of the means of egress.

Basement
Occupant Load: 10
Egress Width: 3

First Level
Occupant Load: 233
Egress Width: 47

Second Level
Occupant Load: 10
Egress Width: 3

SECTION 1007 - ACCESSIBLE MEANS OF EGRESS
1007.3 Stairways.
In order to be considered part of an accessible means of egress, an exit access stairway as permitted by Section 1016.1 or exit stairway shall have a clear width of 48 inches minimum between handrails and shall either incorporate an area of refuge within an enlarged floor-level landing or shall be accessed from either an area of refuge complying with Section 1007.6 or a horizontal exit.

- Exceptions:
- The clear width of 48 inches between handrails is not required at exit access stairway as permitted by Section 1016.1 or exit stairways in buildings equipped throughout with an automatic sprinkler system installed in accordance with Section 903.3.1.1 or 903.3.1.2.
 - Areas of refuge are not required at exit stairways in buildings equipped throughout with an automatic sprinkler system installed in accordance with Section 903.3.1.1 or 903.3.1.2.

SECTION 1009 - STAIRWAYS
1009.1 Stairway width.
The width of stairways shall be determined as specified in Section 1005.1, but such width shall not be less than 44 inches. See Section 1007.3 for accessible means of egress stairways.

- Exceptions:
- Stairways serving an occupant load of less than 50 shall have a width of not less than 36 inches.

SECTION 1014 - EXIT ACCESS
1014.3 Common path of egress travel.
In occupancies other than Groups H-1, H-2 and H-3, the common path of egress shall not exceed 75 feet. In Group H-1, H-2 and H-3 occupancies, the common path of egress travel shall not exceed 25 feet. For common path of egress travel in Group A occupancies and assembly occupancies accessory to Group E occupancies having fixed seating, see Section 1028.8.

- Exceptions:
- The length of a common path of egress travel in Group B, F and S occupancies shall not be more than 100 feet, provided that the building is equipped throughout with an automatic sprinkler system installed in accordance with Section 903.3.1.1.
 - The length of a common path of egress travel in a Group R-2 occupancy shall not be more than 125 feet, provided that the building is protected throughout with an approved automatic sprinkler system in accordance with Section 903.3.1.1 or 903.3.1.2.

SECTION 1015 - EXIT AND EXIT ACCESS DOORWAYS
1015.1 Exits or exit access doorways from spaces.
Two exits or exit access doorways from any space shall be provided where one of the following conditions exists:

- The occupant load of the space exceeds one of the values in Table 1015.1.
- The common path of egress travel exceeds one of the limitations from Section 1014.3.
- Where required by Section 1015.3, 1015.4, 1015.5, 1015.6 or 1015.6.1.

TABLE 1015.1
SPACES WITH ONE EXIT OR EXIT ACCESS DOORWAY

OCCUPANCY	MAXIMUM OCCUPANT LOAD
A, B, E ^a , F, M, U	49
H-1, H-2, H-3	3
H-4, H-5, I-1, I-3, I-4, R	10
S	29

SECTION 1016 - EXIT ACCESS TRAVEL DISTANCE
1016.1 Travel distance limitations.
Exits shall be so located on each story such that the maximum length of exit acces travel, measured from the most remote point within a story along the natural and unobstructed path of egress travel to an exterior exit door at the level of exit discharge, an entrance to a vertical exit enclosure, an exit passageway, a horizontal exit, an exterior exit stairway or an exterior exit ramp, shall not exceed the entrances given in Table 1016.1.

TABLE 1016.1
EXIT ACCESS TRAVEL DISTANCE^a

OCCUPANCY	WITHOUT SPRINKLER SYSTEM (feet)	WITH SPRINKLER SYSTEM (feet)
A, E, F-1, M, R, S-1	200	250 ^b
I-1	Not Permitted	250 ^b
B	200	300 ^c
F-2, S-2, U	300	400 ^c
H-1	Not Permitted	75 ^c
H-2	Not Permitted	100 ^c
H-3	Not Permitted	150 ^c
H-4	Not Permitted	175 ^c
H-5	Not Permitted	200 ^c
I-2, I-3, I-4	Not Permitted	200 ^c

SECTION 1018 - CORRIDORS
1018.1 Construction.
Corridors shall be fire-resistance rated in accordance with Table 1018.1. The corridor walls required to be fire-resistance rated shall comply with Section 709 for fire partitions.

TABLE 1018.1
CORRIDOR FIRE-RESISTANCE RATING

OCCUPANCY	OCCUPANT LOAD SERVED BY CORRIDOR	REQUIRED FIRE-RESISTANCE RATING (hours)	
		Without sprinkler system	With sprinkler system ^c
H-1, H-2, H-3	All	Not Permitted	1
H-4, H-5	Greater than 30	Not Permitted	1
A, B, E, F, M, S, U	Greater than 30	1	0
R	Greater than 10	Not Permitted	0.5
I-2 ^d , I-4	All	Not Permitted	0
I-1, I-3	All	Not Permitted	1 ^b

1018.2 Corridor width.
The minimum corridor width shall be as determined in Section 1005.1, but not less than 44 inches.

- Exceptions:
- Thirty-six inches - With a required occupant capacity of less than 50.

1018.4 Dead ends.
Where more than one exit or exit access doorway is required, the exit access shall be arranged such that there are no dead ends in corridors more than 20 feet in length.

- Exceptions:
- In occupancies in Groups B, E, F, I-1, M, R-1, R-2, R-4, S and U, where the building is equipped throughout with an automatic sprinkler system in accordance with Section 903.3.1.1, the length of the dead-end corridors shall not exceed 50 feet.

SECTION 1021 - NUMBER OF EXITS AND CONTINUITY
1021.2 Single exits.
One one exit shall be required from Group R-3 occupancy buildings or from stories of other buildings as indicated in Table 1021.2. Occupancies shall be permitted to have a single exit in buildings otherwise required to have more than one exit if the areas served by the single exit do not exceed the limitations of Table 1021.2. Mixed occupancies shall be permitted to be served by single exits provided each individual occupancy complies with the applicable requirements of Table 1021.2 for that occupancy. Where applicable, cumulative occupant loads from adjacent occupancies shall be considered in accordance with the provisions of Section 1004.1. Basements with a single exit shall not be located more than one story below grade plane.

TABLE 1021.2
STORIES WITH ONE EXIT

STORY	OCCUPANCY	MAXIMUM OCCUPANTS (OR DWELLING UNITS) PER FLOOR AND TRAVEL DISTANCE
First story or basement	A, B ^a , E ^a , F ^a , M, U, S ^d	49 occupants and 75 feet travel distance
	H-2, H-3	3 occupants and 25 feet travel distance
	H-4, H-5, I, R	10 occupants and 75 feet travel distance
	S ^a	29 occupants and 100 feet travel distance
Second story	B ^b , F, M, S ^a	29 occupants and 75 feet travel distance
	R-2	4 dwelling units and 50 feet travel distance
Third story	R-2 ^c	4 dwelling units and 50 feet travel distance

For St: 1 foot = 304.8 mm.
a. For the required number of exits for parking structures, see Section 1021.1.2.
b. For the required number of exits for air traffic control towers, see Section 412.3.
c. Buildings classified as Group R-2 equipped throughout with an automatic sprinkler system in accordance with Section 903.3.1.1 or 903.3.1.2 and provided with emergency escape and rescue openings in accordance with Section 1023.
d. Group B, F and S occupancies in buildings equipped throughout with an automatic sprinkler system in accordance with Section 903.3.1.1 shall have a maximum travel distance of 100 feet.
e. Day care occupancies shall have a minimum occupant load of 10.

SECTION 1022 - EXIT ENCLOSURES
1022.1 Enclosures required.
Interior exit stairways and interior exit ramps shall be enclosed with fire barriers constructed in accordance with Section 707 or horizontal assemblies constructed in accordance with Section 712, or both. Exit enclosures shall have a fire-resistance rating of not less than 2 hours where connecting four stories or more and not less than 1 hour where connecting less than four stories. The number of stories connected by the exit enclosure shall include any basements but not any mezzanines. Exit enclosures shall have a fire-resistance rating not less than the floor assembly penetrated, but need not exceed 2 hours. Exit enclosures shall lead directly to the exterior of the building or shall be extended to the exterior of the building with an exit passageway conforming to the requirements of Section 1023, except as permitted in Section 1027.1. An exit enclosure shall not be used for any purpose other than means of egress.

- Exceptions:
- In all occupancies, other than Group H and I occupancies, a stairway is not required to be enclosed when the stairway serves an occupant load of less than 10 and the stairway complies with either item 1.1 or 1.2. In all cases, the maximum number of connecting open stories shall not exceed two.

- The stairway is open to not more than one story above its level of exit discharge; or
- The stairway is open to not more than one story below its level of exit discharge.

CHAPTER 11 - ACCESSIBILITY

SECTION 1104 - ACCESSIBLE ROUTE
1104.1 Site arrival points.
Accessible routes within the site shall be provided from public transportation stops; accessible parking; accessible passenger loading zones; and public streets or sidewalks to the accessible building entrances served.

Exception:
Other than in buildings or facilities containing or serving Type B units, an accessible route shall not be required between site arrival points and the building or facility entrance if the only means of access between them is a vehicular way not providing for pedestrian access.

1104.2 Within a site.
At least one accessible route shall connect accessible buildings, accessible facilities, accessible elements and accessible spaces that are on the same site.

Exception:
An accessible route is not required between accessible buildings, accessible facilities, accessible elements and accessible spaces that have, as the only means of access between them, a vehicular way not providing for pedestrian access.

1104.3 Connect spaces.
When a building or portion of a building is required to be accessible, an accessible route shall be provided to each portion of the building, to accessible building entrances connecting accessible pedestrian walkways and the public way.



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ARCHITECTURAL
& DESIGN
REVIEW

DESCRIPTION	DATE	MARK

FITCHBURG EAST
FIRE STATION

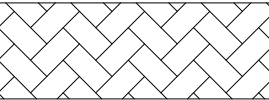
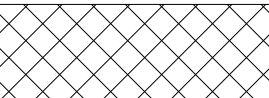
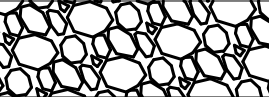
2950 SOUTH SYENE ROAD, FITCHBURG, WI

SEH FILE NO. FITCH 139706
ISSUE DATE JANUARY 23, 2018
DESIGN BY TMF
DRAWN BY MJZ
PROJECT MGR TMF
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CODE REVIEW

G104

EROSION CONTROL LEGEND

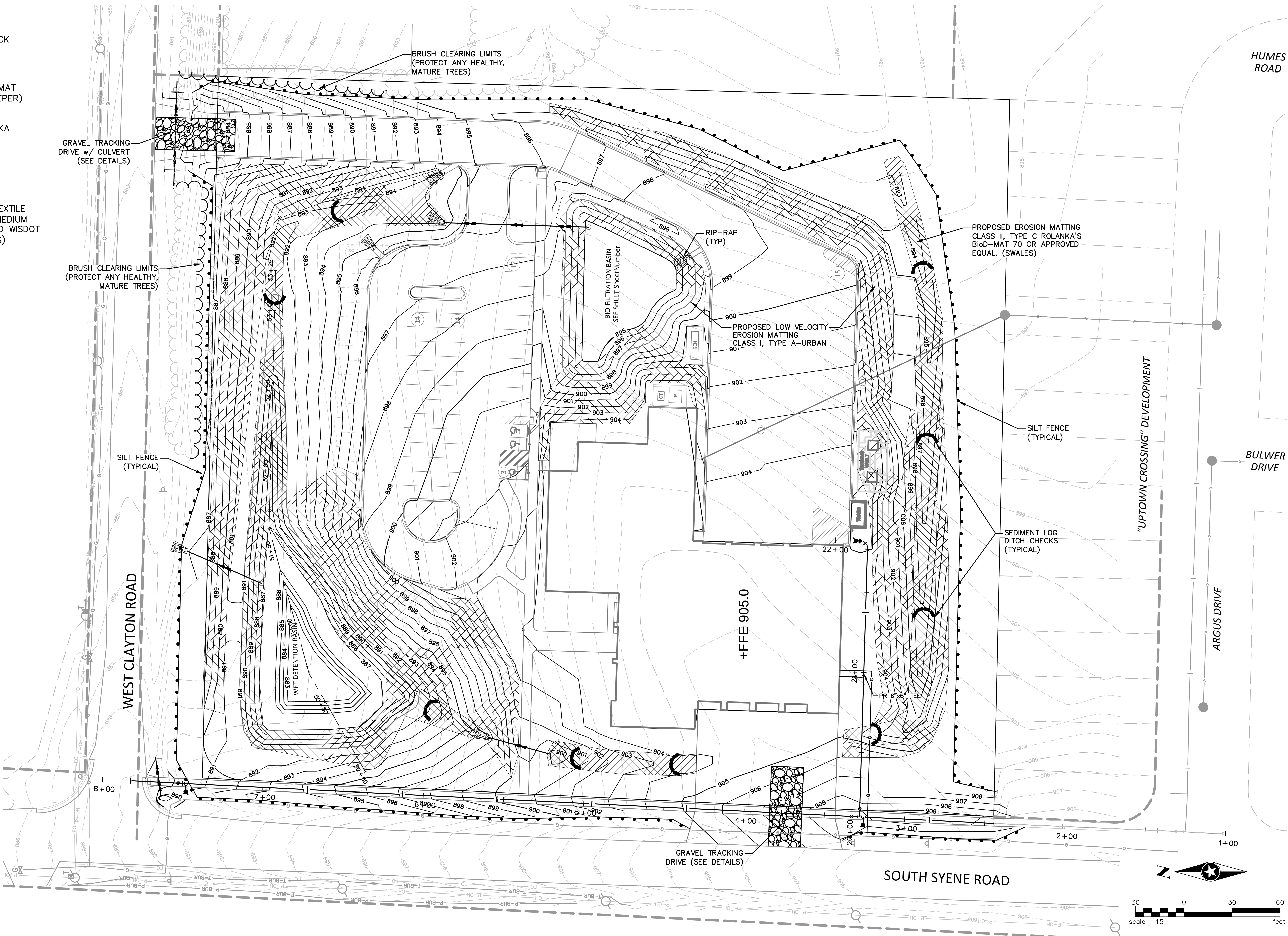
- 
- SEDIMENT LOG DITCH CHECK
- 
- SILT FENCE
- 
- CLASS I, TYPE A URBAN MAT
(ALL SLOPES 5:1 OR STEEPER)
- 
- CLASS II, TYPE C "ROLANKA
BIOD MAT 70"
(OR APPROVED EQUAL)
- 
- GRAVEL TRACKING DRIVE
- 
- RIP-RAP w/TYPE R GEOTEXTILE
FABRIC (STANDARD DOT MEDIUM
RANDOM RIPRAP REFER TO WISDOT
STANDARD SPECIFICATIONS)

GENERAL NOTES:

1. ALL EROSION CONTROL PRACTICES MUST BE CHECKED FOR STABILITY AND OPERATION FOLLOWING EVERY RUNOFF PRODUCING RAINFALL AS WELL AS SNOW MELT AND WINTER THAW (1/2" OR MORE), AND AT LEAST ONCE PER WEEK.
2. ALL TEMPORARY TOPSOIL STOCKPILES SHALL NOT BE LOCATED WITHIN 25 FEET OF A DRAINAGE WAY OR A WETLAND AND SHALL BE PROTECTED WITH SILT FENCING AROUND THE DOWNSLOPE AND SIDESLOPES OF THE PILE, AND STABILIZED WITH TEMPORARY SEEDING IF LEFT INACTIVE FOR 7 DAYS OR MORE.
3. CUT AND FILL SLOPES WILL BE 3:1 OR FLATTER OUTSIDE THE ROAD RIGHT-OF-WAY, UNLESS OTHERWISE NOTED.
4. TEMPORARY SEEDING TO CONFORM WITH SECTION 630.2.1.5.1.2 OF THE STATE OF WISCONSIN STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION (ANNUAL OATS) NOTE: FALL PLANTINGS TO INCLUDE WINTER WHEAT OR RYE ADDED TO MIXTURE.
5. HYDRO-MULCHING ALL DISTURBED AREAS W/POLYACRYLAMIDE REQUIRED FOR WINTER STABILIZATION (PER DOT'S PAL).
DEADLINES FOR SEEDING ARE:
SEPTEMBER 15 - COOL GRASS SEEDING;
OCTOBER 15 - TEMPORARY SEEDING;
NOVEMBER 15 - DORMANT SEEDING.
6. TOPSOIL SHALL NOT BE USED AS FILL MATERIAL IN THE NON-STRUCTURAL AREAS UNTIL ALL SOURCES OF STRUCTURAL CUT AND TRENCH SPOILS HAVE BEEN EXHAUSTED, UNLESS OTHERWISE INDICATED OR INSTRUCTED BY OWNER OR PROJECT ENGINEER.
7. RESTORATION SHALL BE 6" TOPSOIL (REASONABLY FREE OF STONES, STICKS, ROOTS, AND OTHER OBJECTIONABLE MATTER AND DEBRIS). ONCE TOPSOIL HAS BEEN SPREAD, THE AREA SHALL BE SEED WITH SEED MIXTURE NO. 40 IN SECTION 630 OF THE "STATE SPECIFICATIONS", UNLESS OTHERWISE SPECIFIED. THE CONTRACTOR SHALL APPLY A FERTILIZER (20-0-0) OVER THE SEEDED AREA AT A RATE OF 7 POUNDS PER 1000 SQUARE FEET. THIS AREA SHALL BE MAINTAINED BY THE CONTRACTOR. STRAW MULCH SHALL BE PLACED IN ACCORDANCE WITH METHODS "B" OR "C", AS DESCRIBED IN SECTION 627 OF THE "STATE SPECIFICATIONS", EXCEPT THAT THE MULCH SHALL BE PLACED WITHIN ONE (1) DAY AFTER THE SEEDING HAS BEEN COMPLETED.
8. INSTALLATION OF ANCHORED HAY OR MULCH SHOULD NOT OCCUR OVER SNOW GREATER THAN 1 INCH IN DEPTH. MULCH APPLIED DURING WINTER SHOULD BE ANCHORED WITH NETTING OR AN APPROVED TACKIFIER FROM THE WISDOT PAL.

EROSION CONTROL:

1. CONSTRUCT AND MAINTAIN ALL EROSION AND SEDIMENT CONTROL MEASURES IN ACCORDANCE WITH THE "WISCONSIN STORMWATER CONSTRUCTION AND POST-CONSTRUCTION TECHNICAL STANDARDS".
2. SEDIMENT CONTROL MEASURES MAY NEED TO BE ADJUSTED TO MEET FIELD CONDITIONS AND / OR METHODS OF CONSTRUCTION, AND AS REQUIRED BY THE CITY.
3. PROVIDE INSPECTION AND MAINTENANCE OF ALL SEDIMENT CONTROL STRUCTURES AFTER EVERY RUNOFF PRODUCING RAINFALL AND SNOW MELT OR WINTER THAW EVENT TO ENSURE INTENDED PURPOSE IS ACCOMPLISHED. SEDIMENT CONTROL MEASURES ARE TO BE IN WORKING CONDITION AT THE END OF EACH DAY.
4. INSPECT SEDIMENT CONTROL STRUCTURES FOR INTEGRITY AFTER ANY SIGNIFICANT RAINFALL OF 1/2" OR MORE. CORRECT ANY DAMAGED STRUCTURES IMMEDIATELY.
5. DO NOT REMOVE ANY SEDIMENT CONTROL MEASURES UNTIL THE AREAS SERVED HAVE 80% OR MORE ESTABLISHED VEGETATIVE COVER.
6. ALL TRACKED SOIL ON ADJACENT STREETS FROM THIS PROJECT MUST BE CLEANED ON A DAILY BASIS, MINIMUM. CONTRACTORS ARE REQUIRED TO USE THE TRACKING DRIVE ONLY FOR ACCESS TO THE SITE.
7. PROTECT STORM SEWER COLLECTION INLETS FROM RUN-OFF BY USING THE APPROPRIATE INLET PROTECTION. PROVIDE PROTECTION ONCE INLETS ARE INSTALLED AND MAINTAIN DURING THE DURATION OF THE CONSTRUCTION, REMOVE ONCE SITE IS STABILIZED.
8. SEDIMENT CONTROL FOR UTILITY PIPELINE CONSTRUCTION
A. PLACE EXCAVATED TRENCH MATERIAL ON HIGH SIDE OF THE TRENCH.
B. BACKFILL, COMPACT, AND STABILIZE THE TRENCH IMMEDIATELY AFTER PIPE INSTALLATION.
10. ALL PERMANENT SWALES SHALL BE RESTORED WITH CLASS II, TYPE C "ROLANKA BIOD MAT 70" (OR APPROVED EQUAL); TEMPORARY DIVERSION SWALES MAY BE RESTORED USING CLASS I - TYPE B ECRM. ALL SLOPES GRADED TO 5:1 OR STEEPER MUST BE RESTORED WITH CLASS I, TYPE A URBAN MAT TO ESTABLISH VEGETATION AND MINIMIZE EROSION.



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DESIGNER:				
CHECKED BY: J. VAYNBURG				
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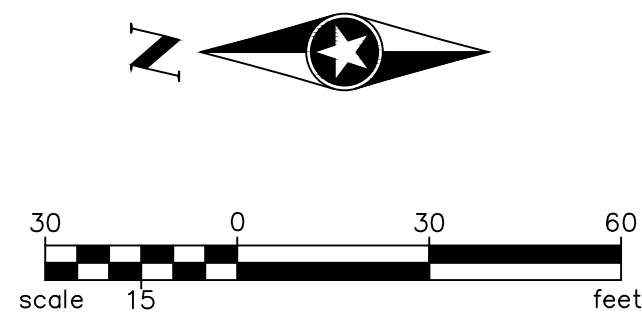
FITCHBURG FIRE - EAST
FITCHBURG, WI

CLEARING AND EROSION CONTROL PLAN

FILE NO. FITCH_139706	C100
DATE 01/23/2018	OF ---

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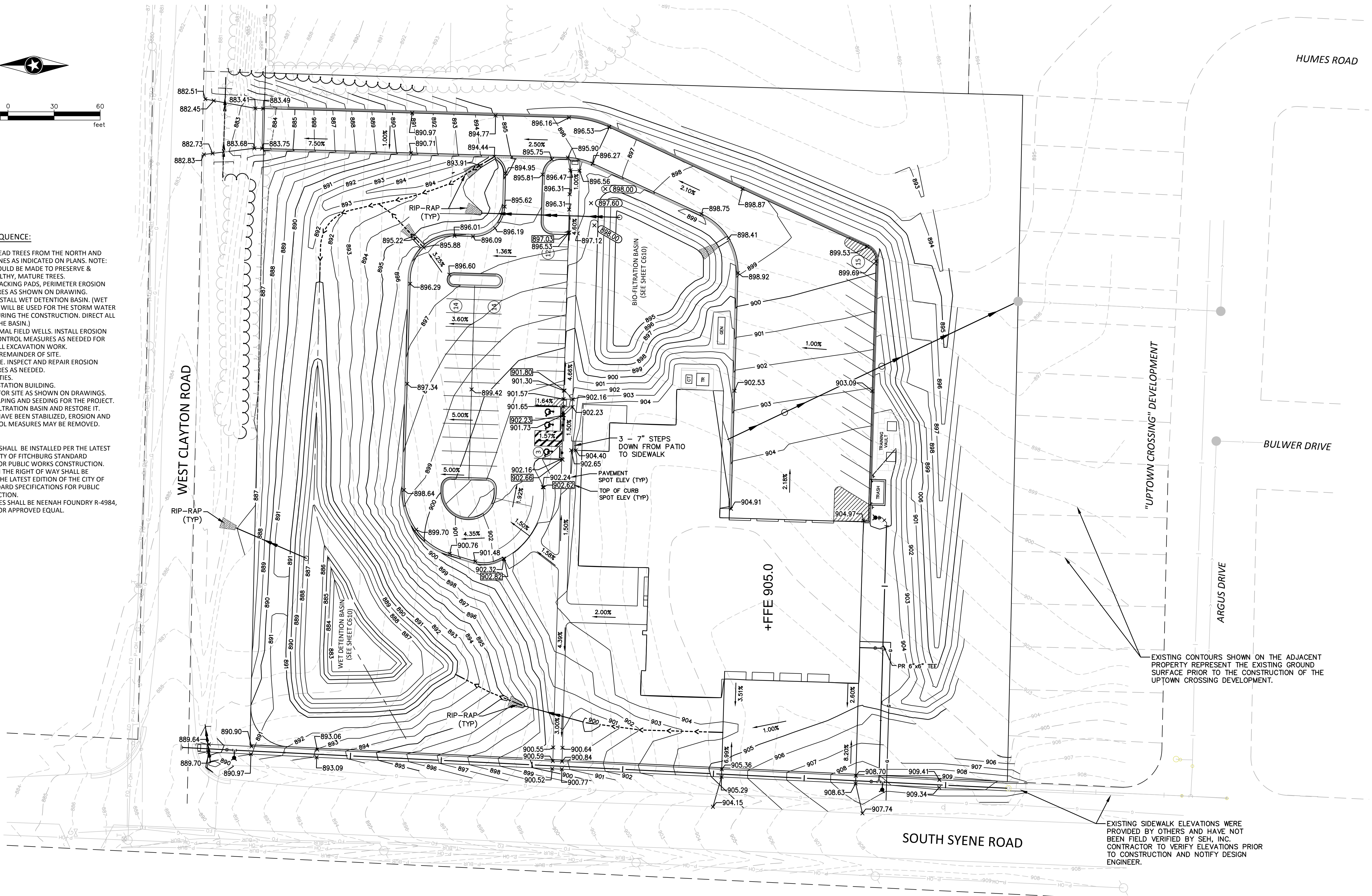


CONSTRUCTION SEQUENCE:

1. CLEAR BRUSH & DEAD TREES FROM THE NORTH AND EAST PROPERTY LINES AS INDICATED ON PLANS. NOTE: EVERY EFFORT SHOULD BE MADE TO PRESERVE & PROTECT ANY HEALTHY, MATURE TREES.
2. INSTALL STONE TRACKING PADS, PERIMETER EROSION CONTROL MEASURES AS SHOWN ON DRAWING.
3. STRIP TOP SOIL. INSTALL WET DETENTION BASIN. (WET DETENTION BASIN WILL BE USED FOR THE STORM WATER MANAGEMENT DURING THE CONSTRUCTION. DIRECT ALL THE RUNOFF TO THE BASIN.)
4. INSTALL GEOTHERMAL FIELD WELLS. INSTALL EROSION AND SEDIMENT CONTROL MEASURES AS NEEDED FOR GEOTHERMAL WELL EXCAVATION WORK.
5. CLEAR AND GRUB REMAINDER OF SITE.
6. ROUGH GRADE SITE. INSPECT AND REPAIR EROSION CONTROL MEASURES AS NEEDED.
7. INSTALL SITE UTILITIES.
8. CONSTRUCT FIRE STATION BUILDING.
9. PROVIDE PAVING FOR SITE AS SHOWN ON DRAWINGS.
10. PROVIDE LANDSCAPING AND SEEDING FOR THE PROJECT.
11. CONSTRUCT BIOFILTRATION BASIN AND RESTORE IT.
12. ONCE ALL AREAS HAVE BEEN STABILIZED, EROSION AND SEDIMENT CONTROL MEASURES MAY BE REMOVED.

GENERAL NOTES:

1. ALL WATER MAIN SHALL BE INSTALLED PER THE LATEST EDITION OF THE CITY OF FITCHBURG STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION.
2. ALL WORK WITHIN THE RIGHT OF WAY SHALL BE COMPLETED PER THE LATEST EDITION OF THE CITY OF FITCHBURG STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION.
3. TRUNCATED DOMES SHALL BE NEENAH FOUNDRY R-4984, NATURAL FINISH, OR APPROVED EQUAL.



EXISTING CONTOURS SHOWN ON THE ADJACENT PROPERTY REPRESENT THE EXISTING GROUND SURFACE PRIOR TO THE CONSTRUCTION OF THE UPTOWN CROSSING DEVELOPMENT.

EXISTING SIDEWALK ELEVATIONS WERE PROVIDED BY OTHERS AND HAVE NOT BEEN FIELD VERIFIED BY SEH, INC. CONTRACTOR TO VERIFY ELEVATIONS PRIOR TO CONSTRUCTION AND NOTIFY DESIGN ENGINEER.

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DESIGNER: ---
CHECKED BY: J. VAYNBERG
DESIGN TEAM

NO.	BY	DATE	REVISIONS



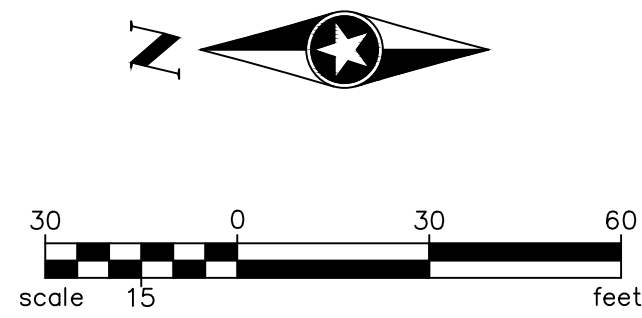
FITCHBURG FIRE - EAST
FITCHBURG, WI

GRADING PLAN

FILE NO.
FITCH_139706
DATE
01/23/2018

C200
OF ---

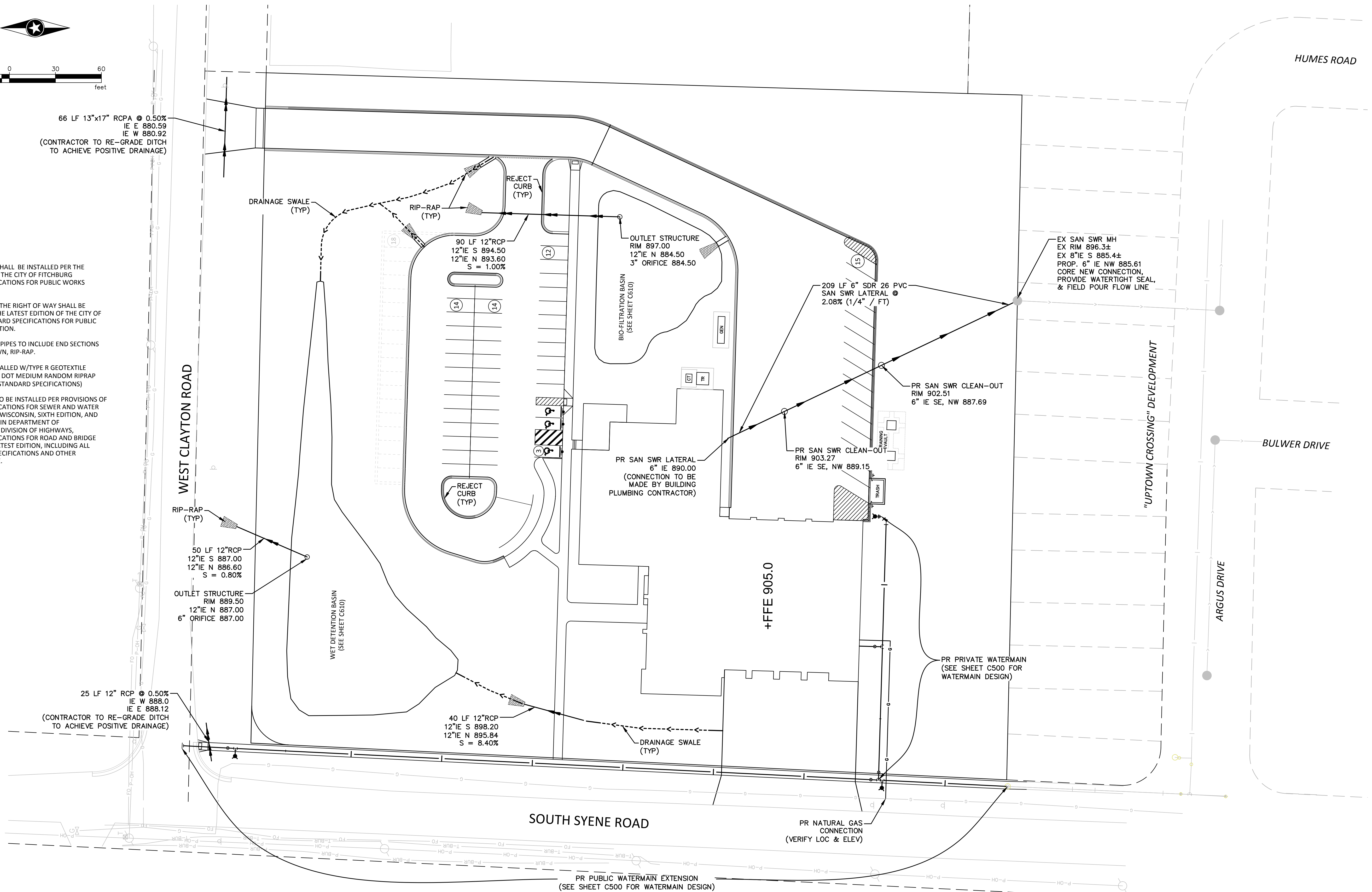
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66 LF 13"x17" RCPA @ 0.50%
IE E 880.59
IE W 880.92
(CONTRACTOR TO RE-GRADE DITCH
TO ACHIEVE POSITIVE DRAINAGE)

UTILITY NOTES:

1. ALL WATER MAIN SHALL BE INSTALLED PER THE LATEST EDITION OF THE CITY OF FITCHBURG STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION.
2. ALL WORK WITHIN THE RIGHT OF WAY SHALL BE COMPLETED PER THE LATEST EDITION OF THE CITY OF FITCHBURG STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION.
3. ALL STORM SEWER PIPES TO INCLUDE END SECTIONS AND, WHERE SHOWN, RIP-RAP.
4. RIP-RAP TO BE INSTALLED W/TYPE R GEOTEXTILE FABRIC (STANDARD DOT MEDIUM RANDOM RIPRAP REFER TO WISDOT STANDARD SPECIFICATIONS)
5. SANITARY SEWER TO BE INSTALLED PER PROVISIONS OF STANDARD SPECIFICATIONS FOR SEWER AND WATER CONSTRUCTION IN WISCONSIN, SIXTH EDITION, AND STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION, DIVISION OF HIGHWAYS, STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, LATEST EDITION, INCLUDING ALL SUPPLEMENTAL SPECIFICATIONS AND OTHER REVISIONS TO DATE.



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CHECKED BY: J. VAYNBERG
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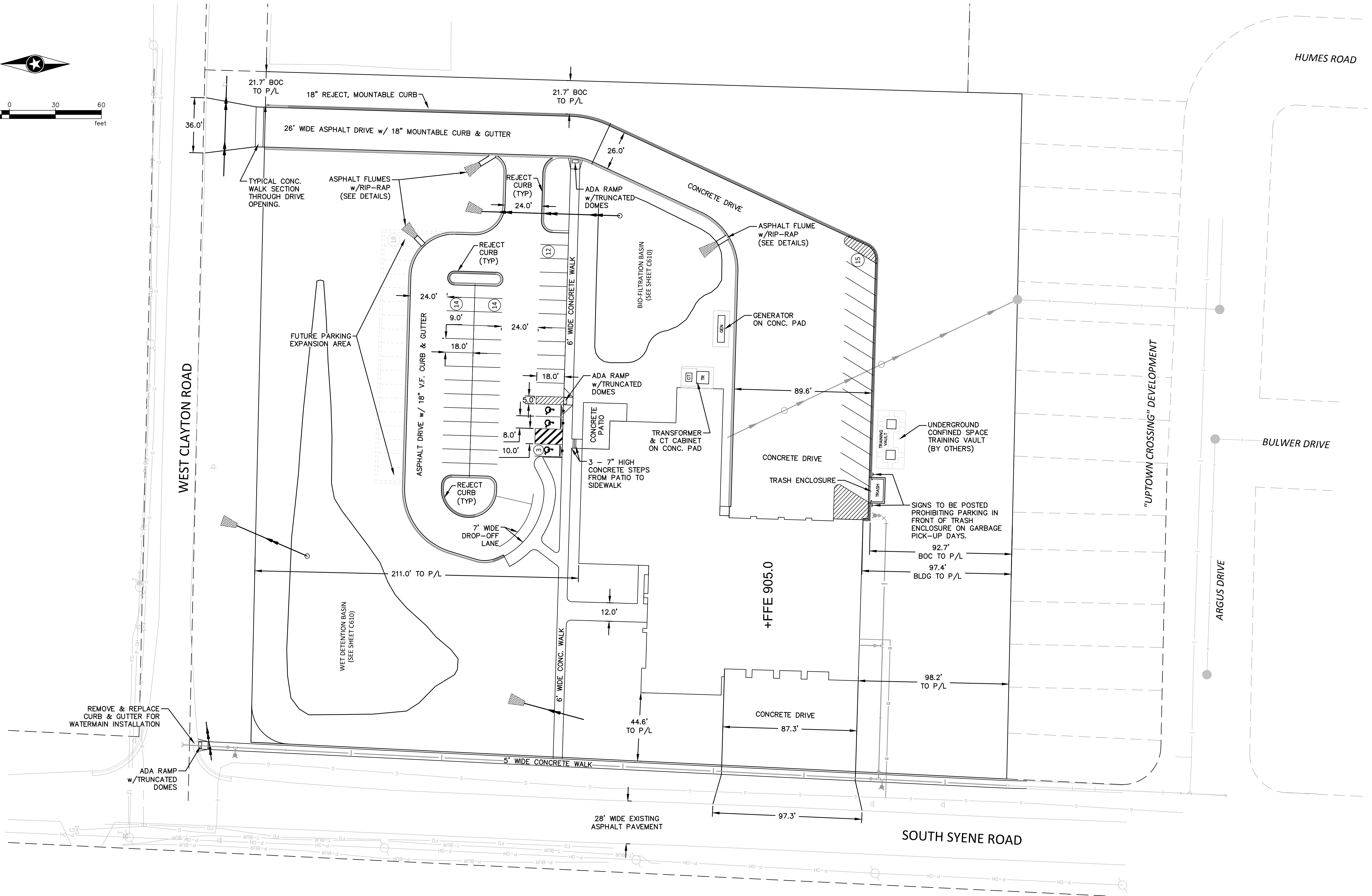
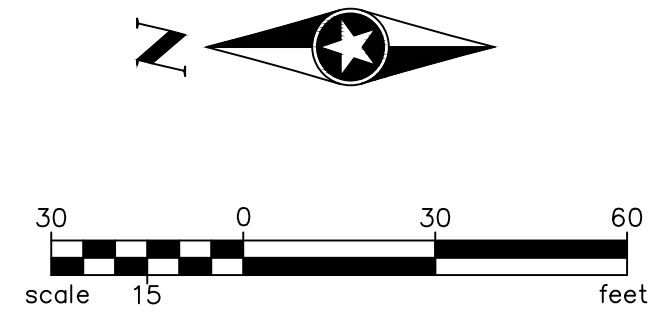
FITCHBURG FIRE - EAST
FITCHBURG, WI

UTILITY PLAN

FILE NO.
FITCH_139706
DATE
01/23/2018

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OF

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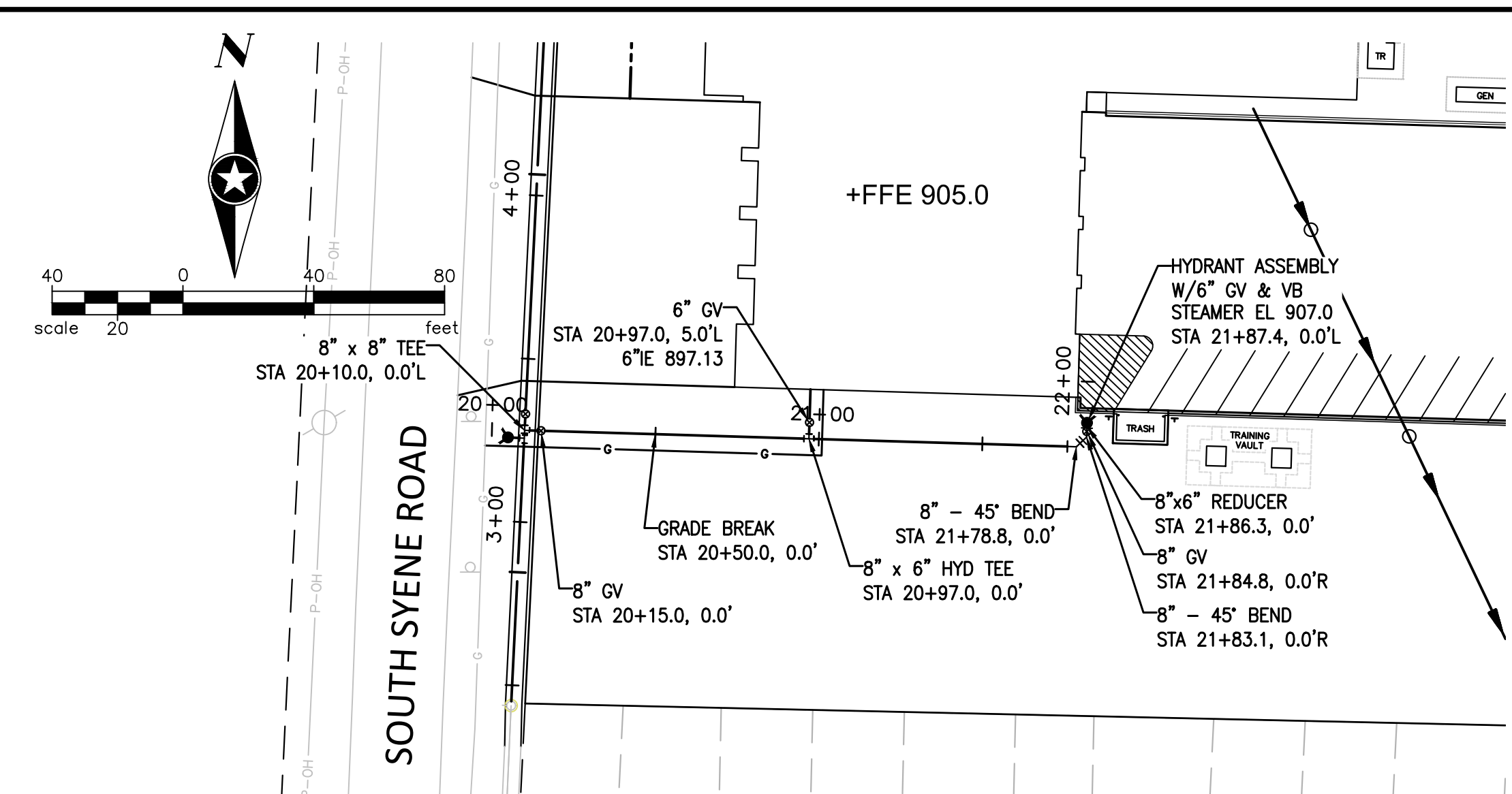
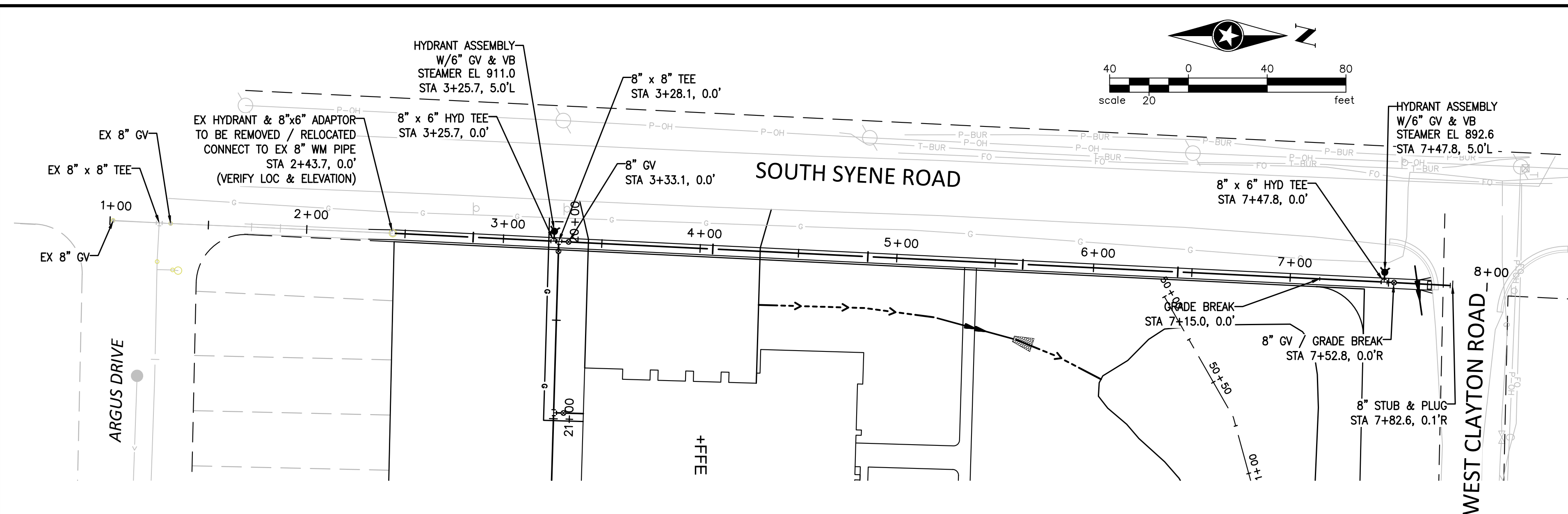


FITCHBURG FIRE - EAST
FITCHBURG, WI

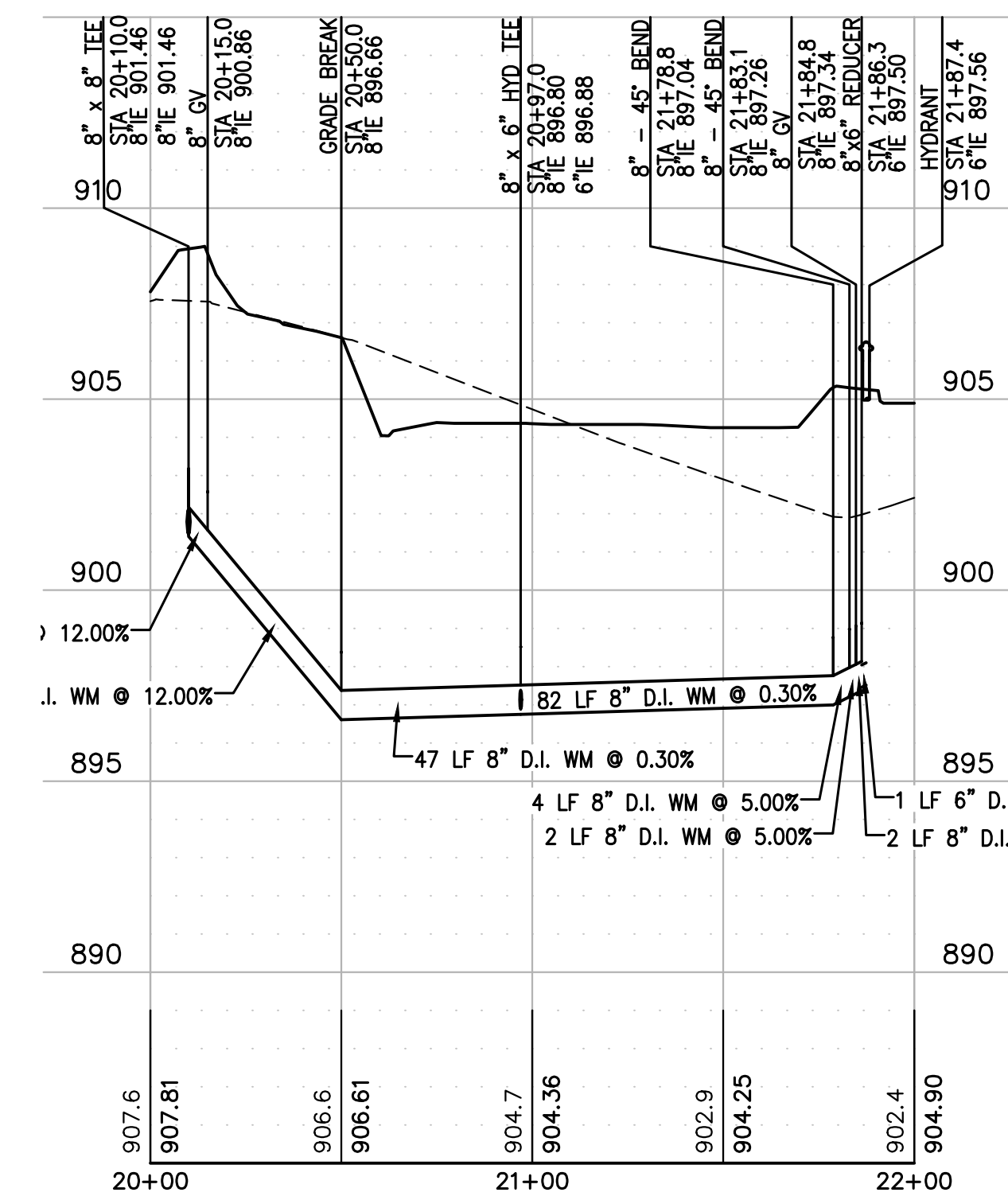
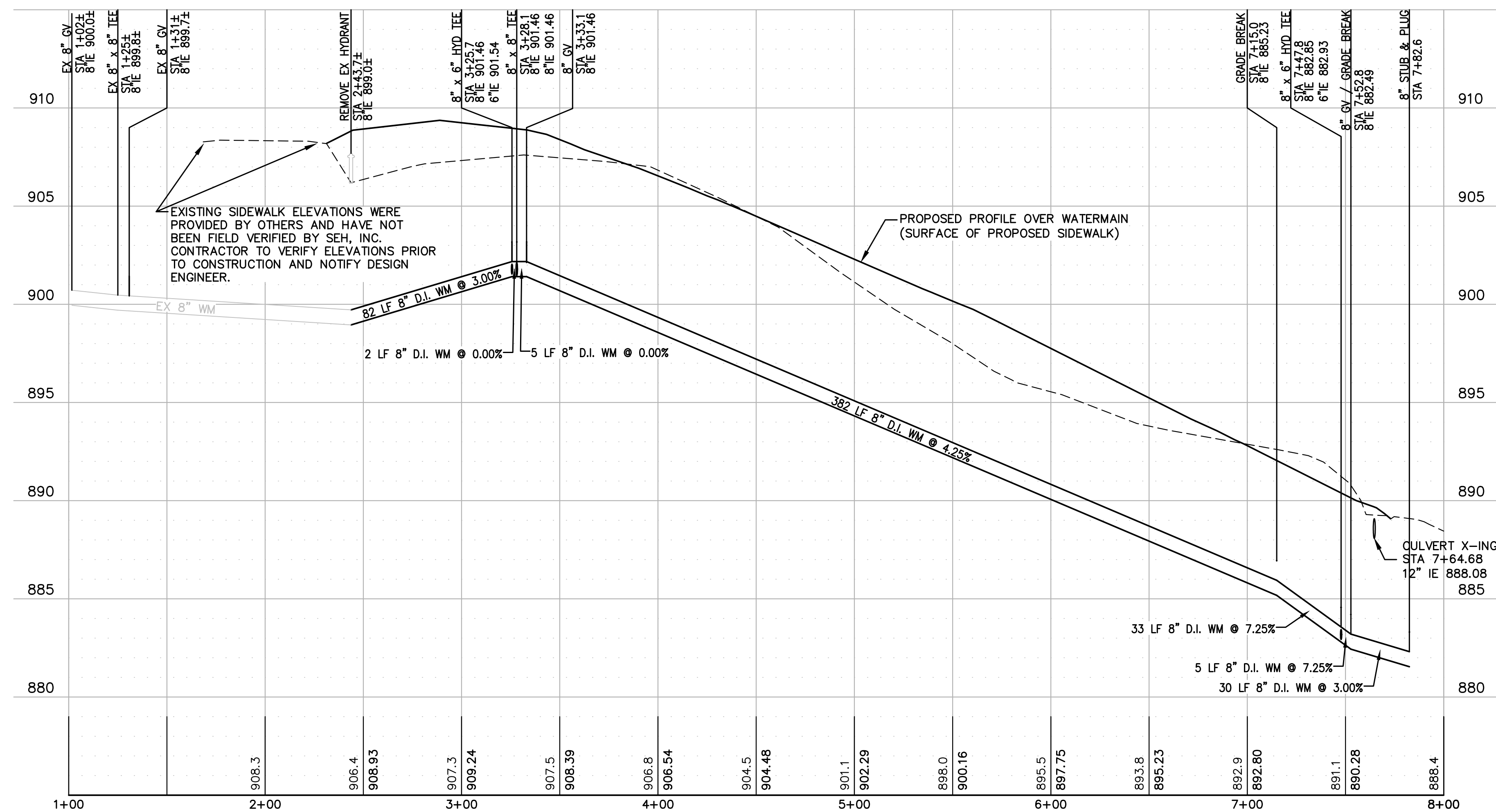
SITE LAYOUT & PAVING PLAN

FILE NO.
FITCH_139706
DATE
01/23/2018

C400
OF



- WATERMAIN NOTES:
- CONTRACTOR TO TEST EXISTING WATERMAIN PRIOR TO CONNECTION. REPLACE 8" GATE VALVE IF TEST DOES NOT PASS.
 - ALL WATERMAIN SHALL BE INSTALLED PER THE LATEST EDITION OF THE CITY OF FITCHBURG STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION.



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CHECKED BY: <u>J. VAYNBERG</u>				
DESIGN TEAM	NO.	BY	DATE	REVISIONS

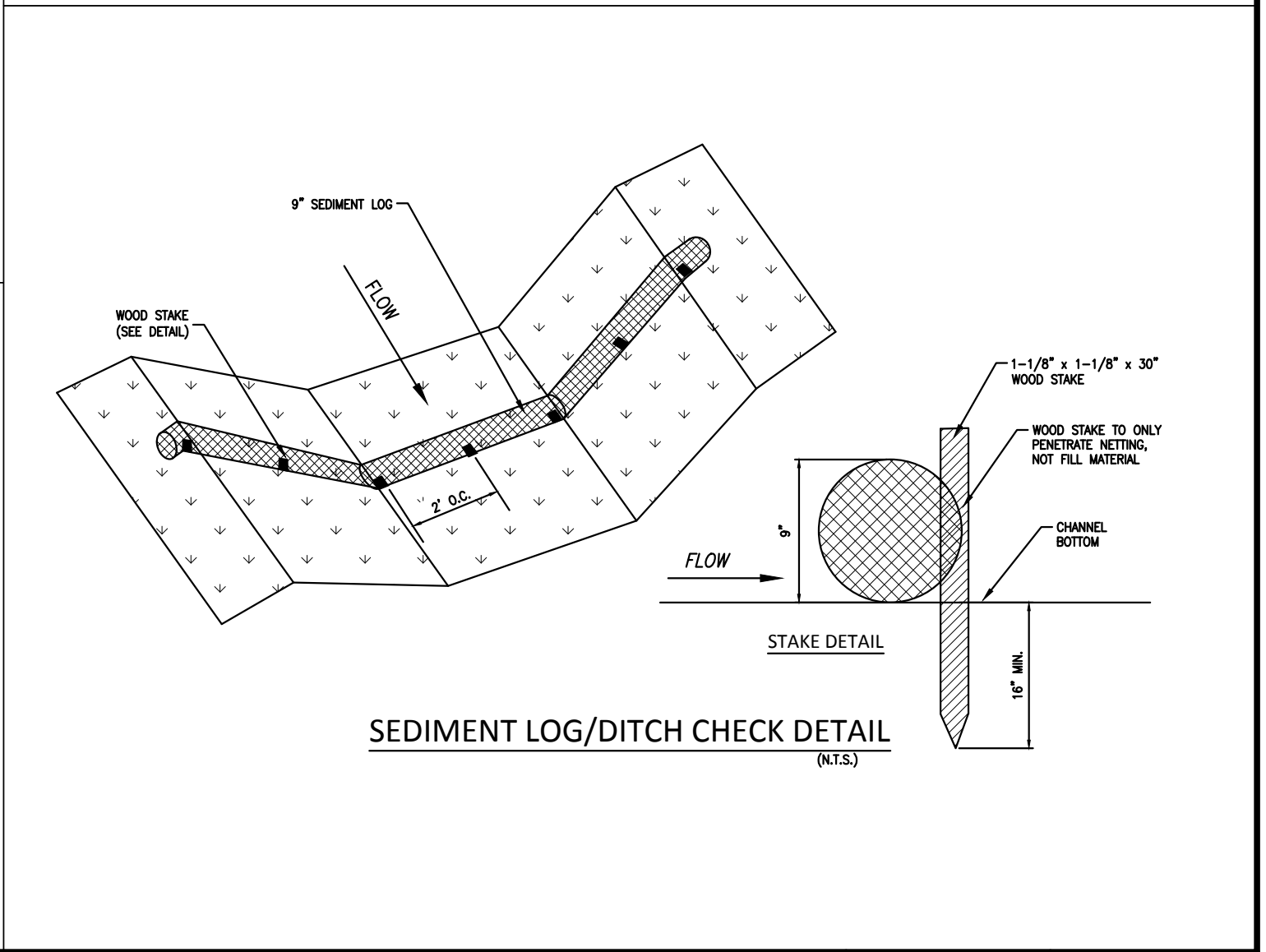
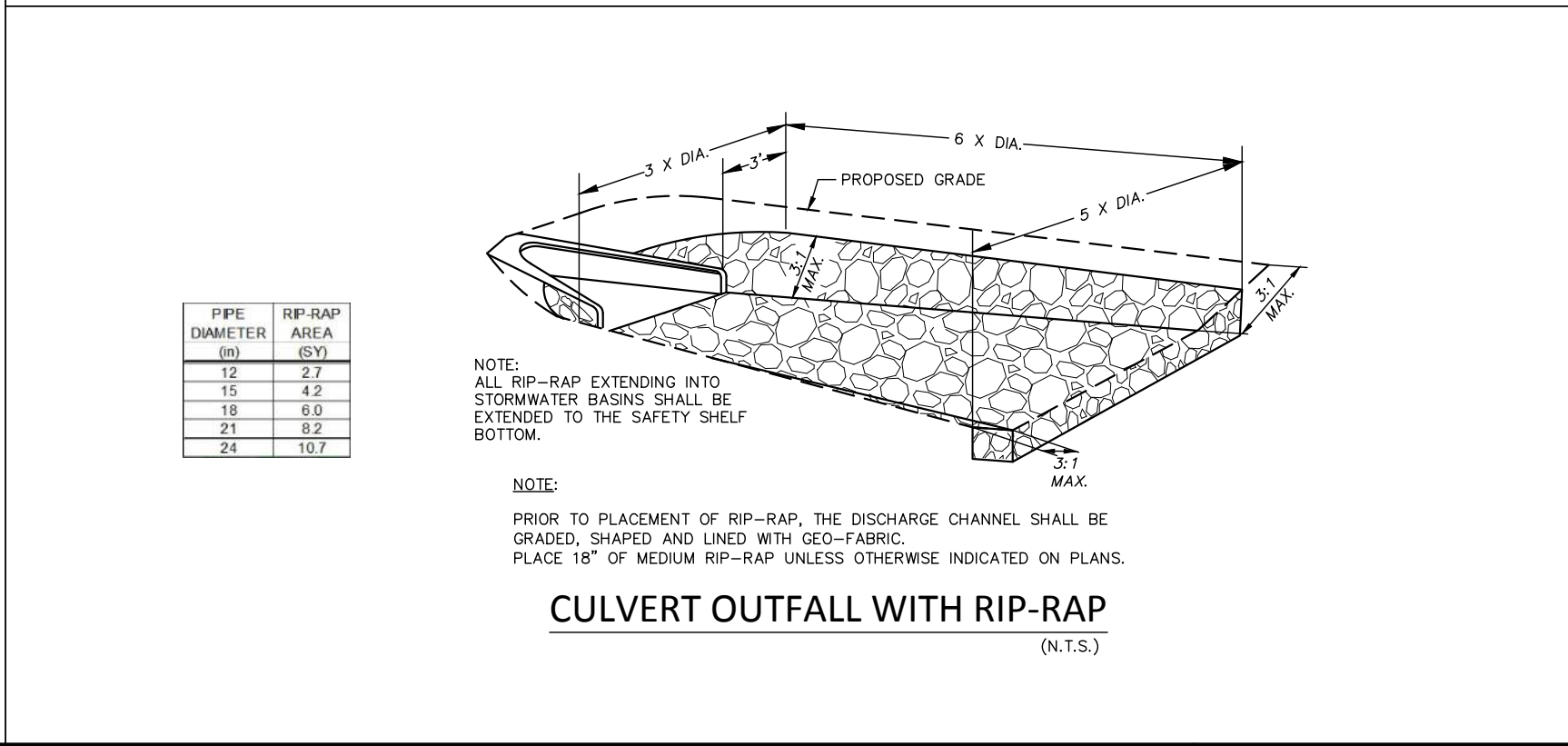
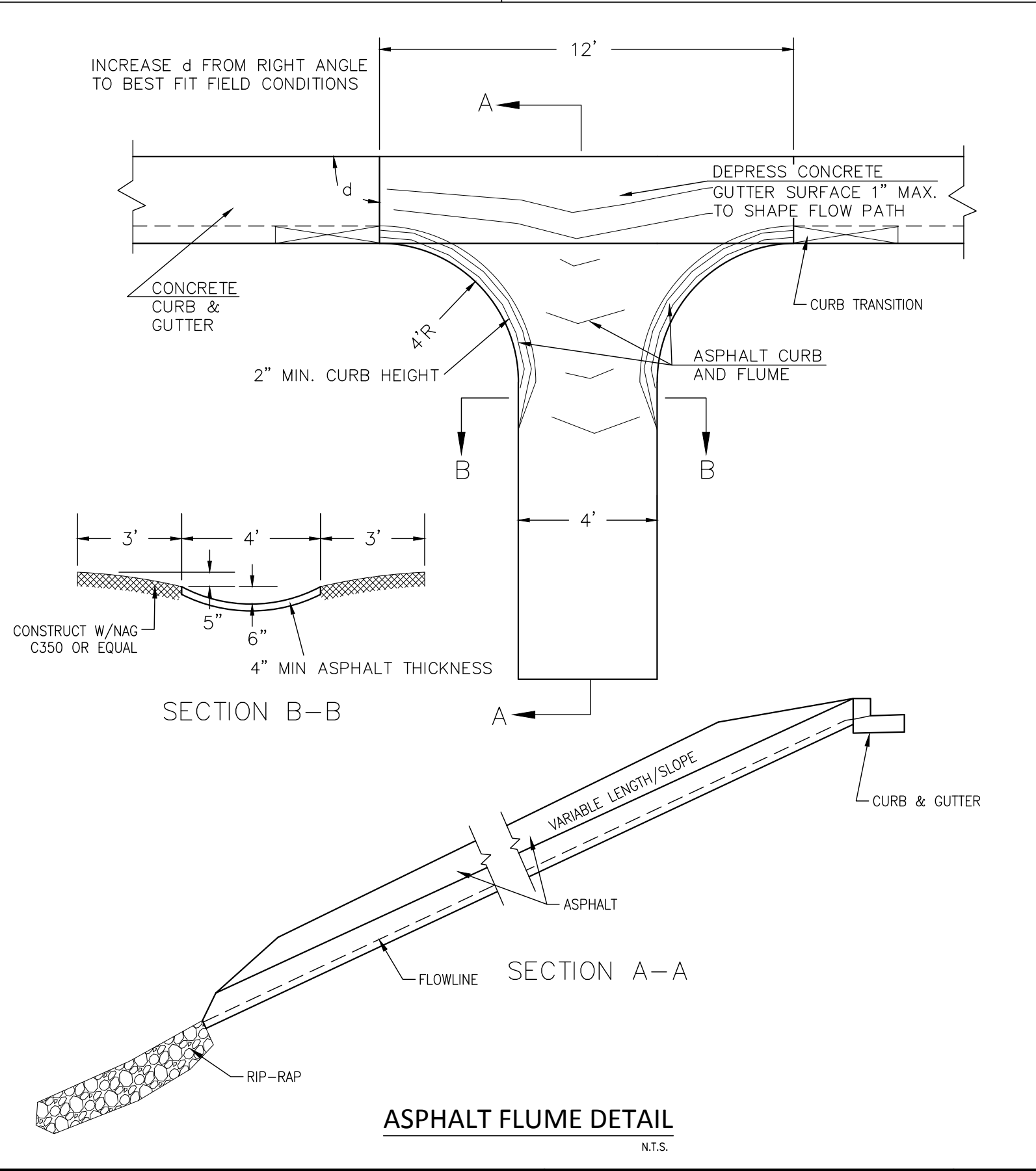
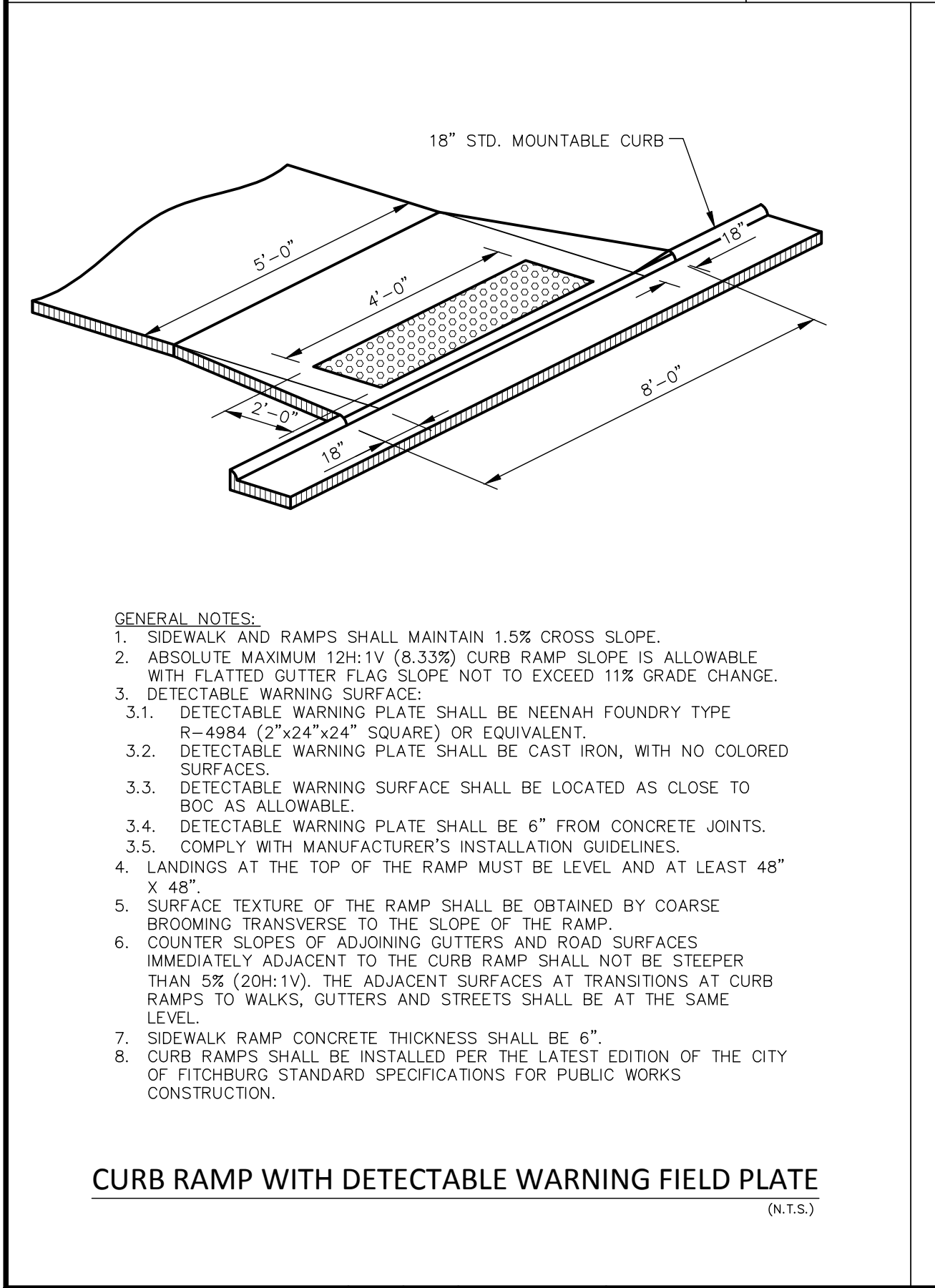
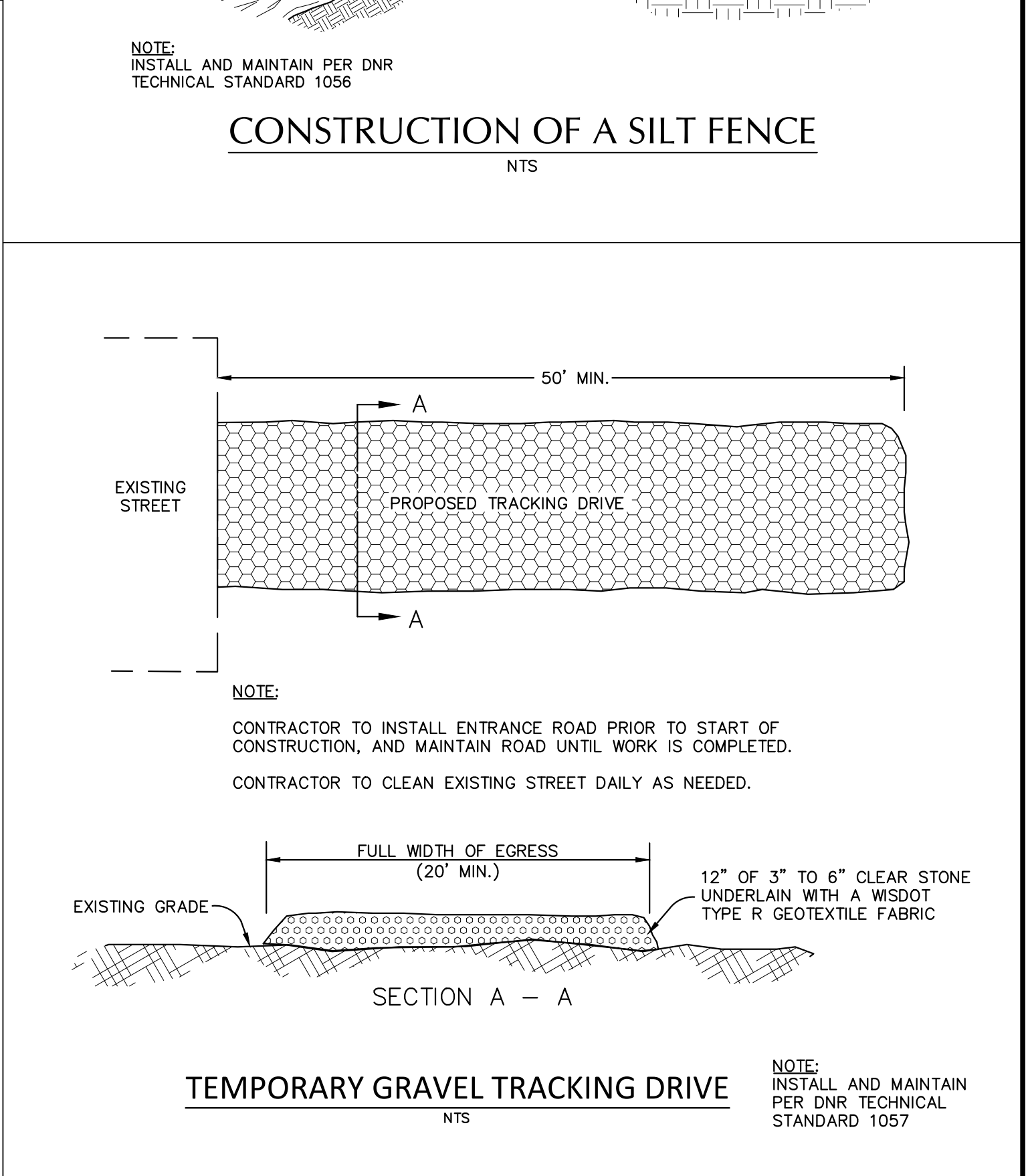
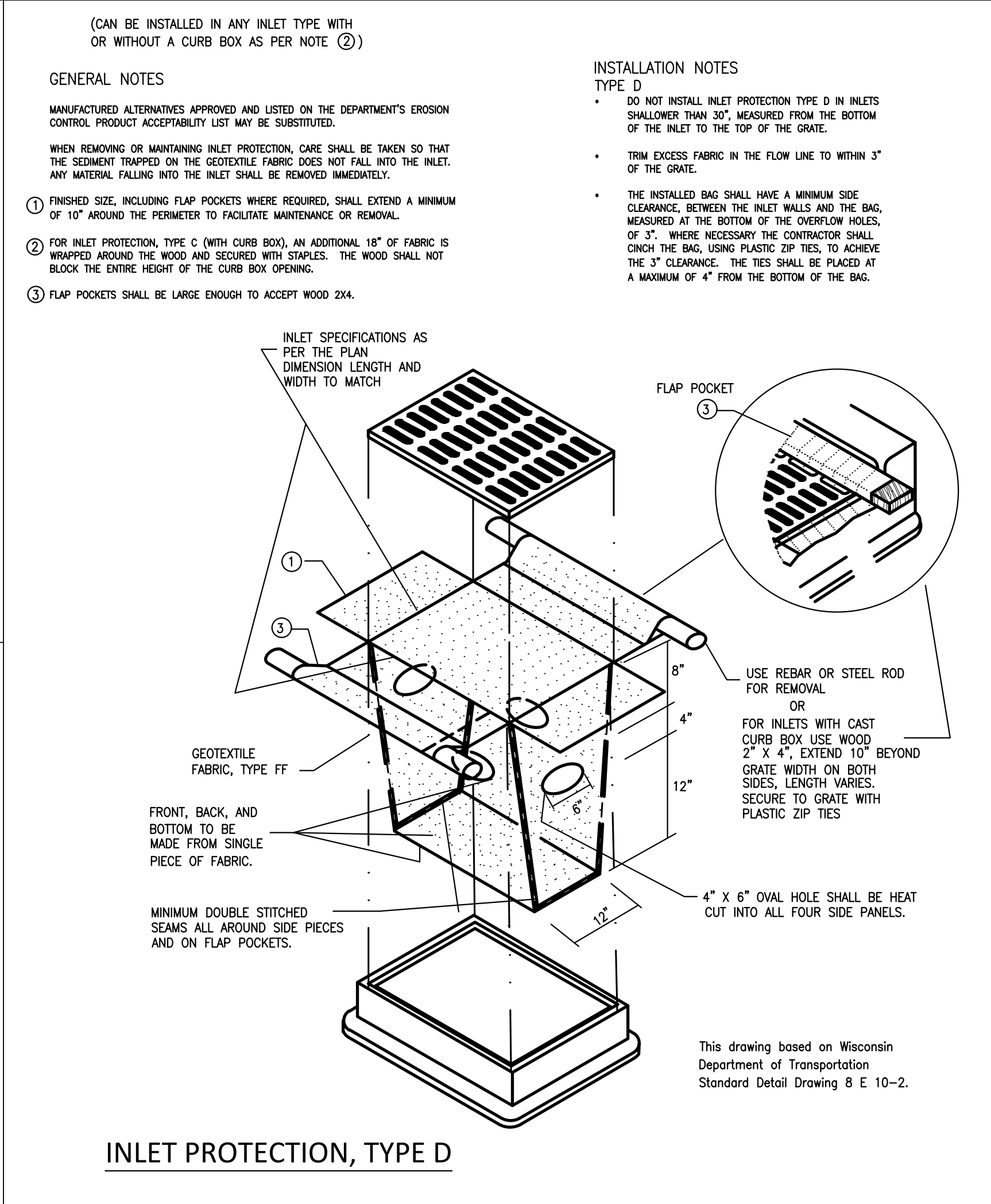
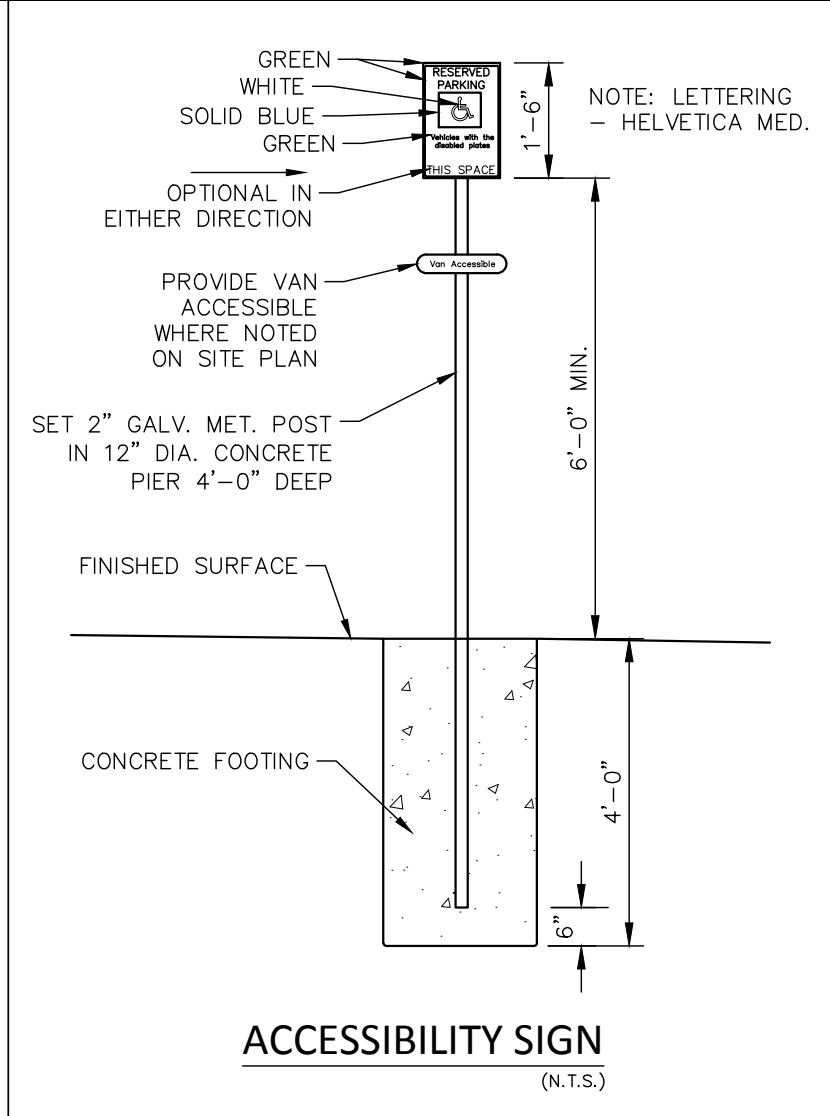
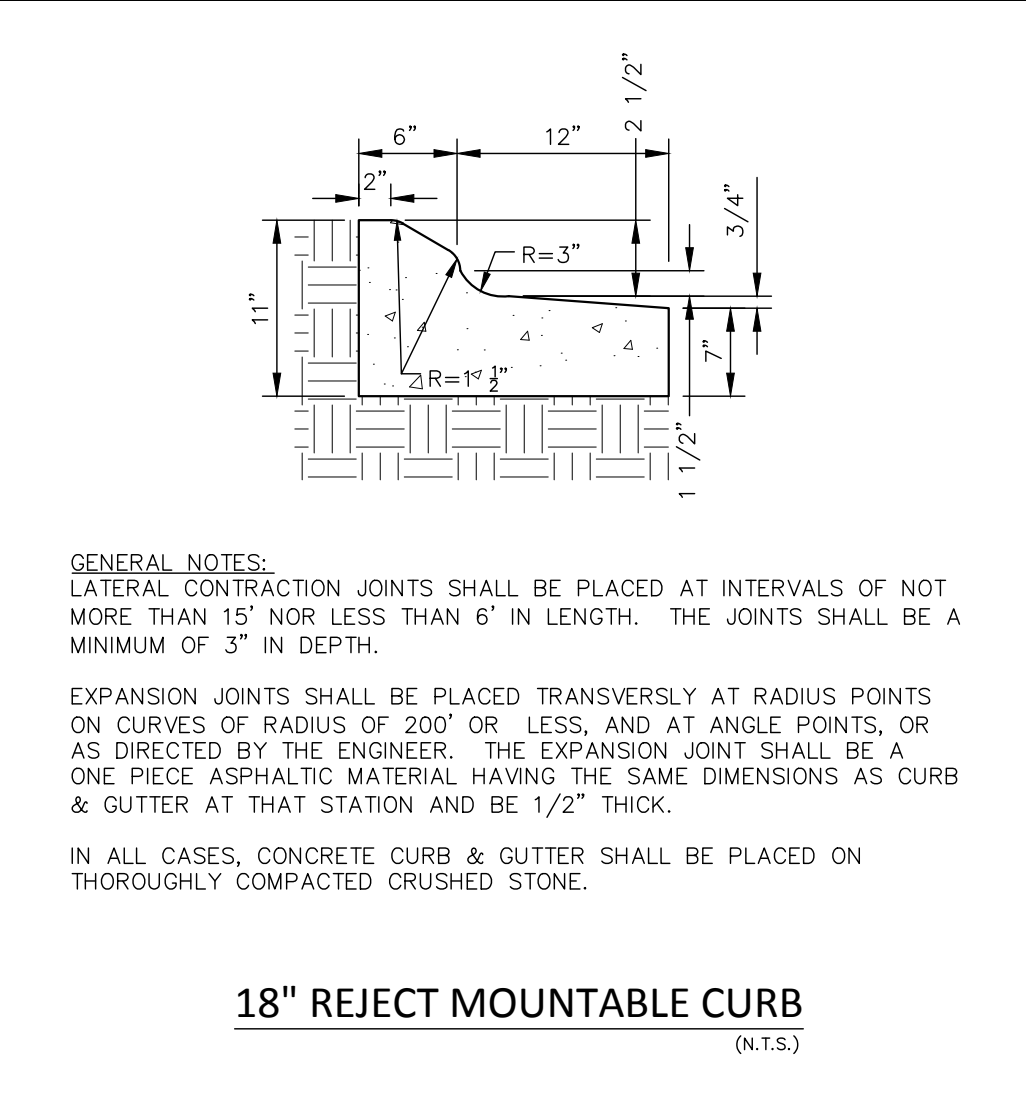
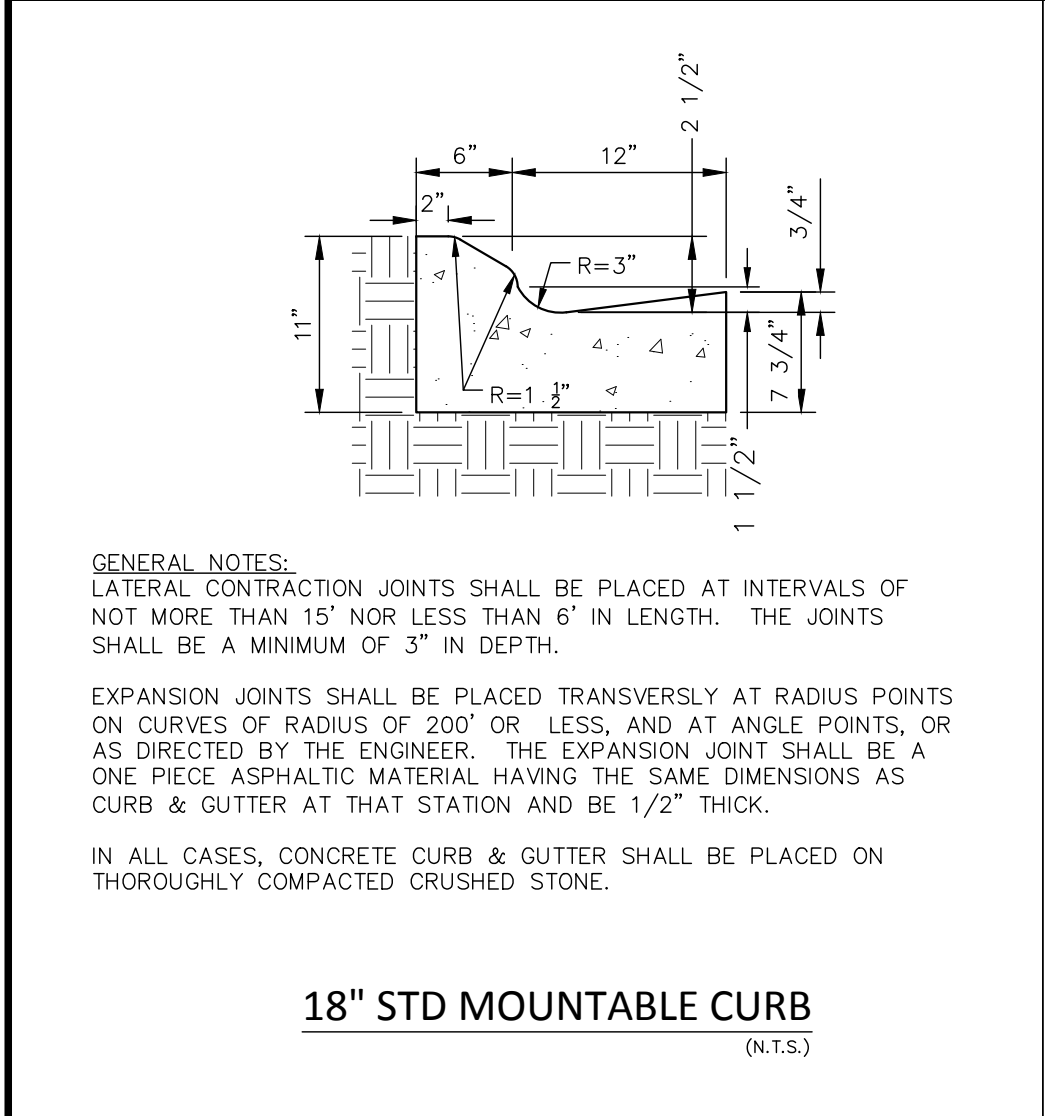
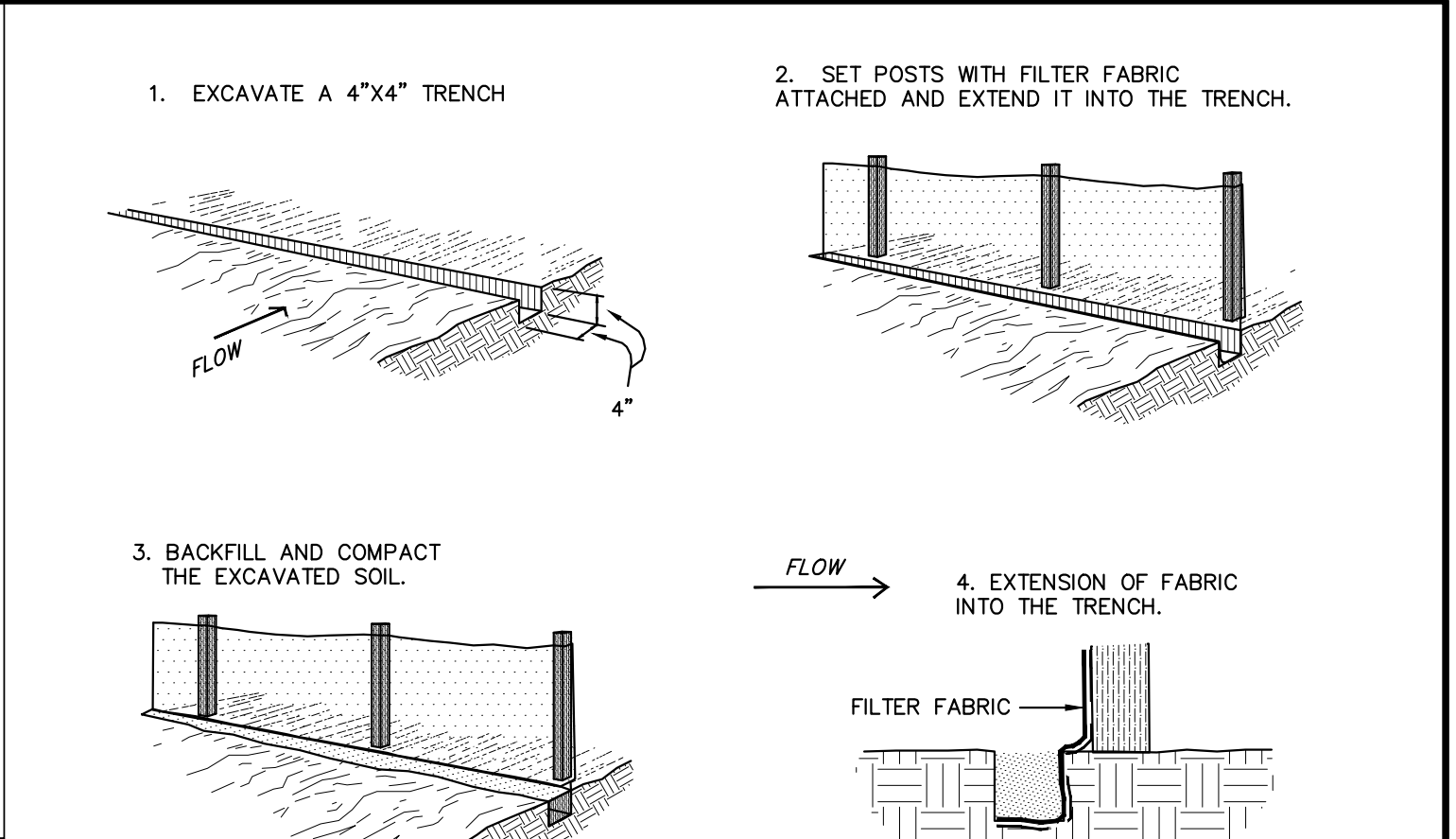
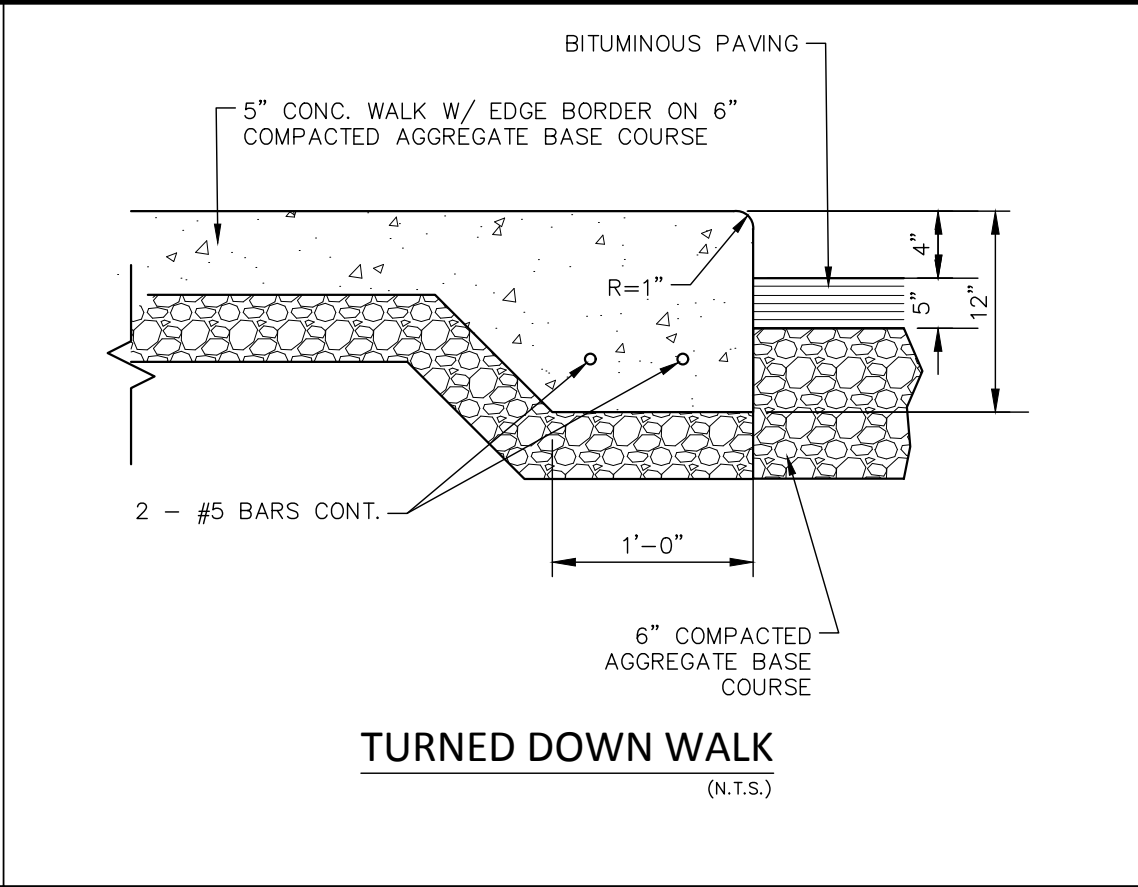
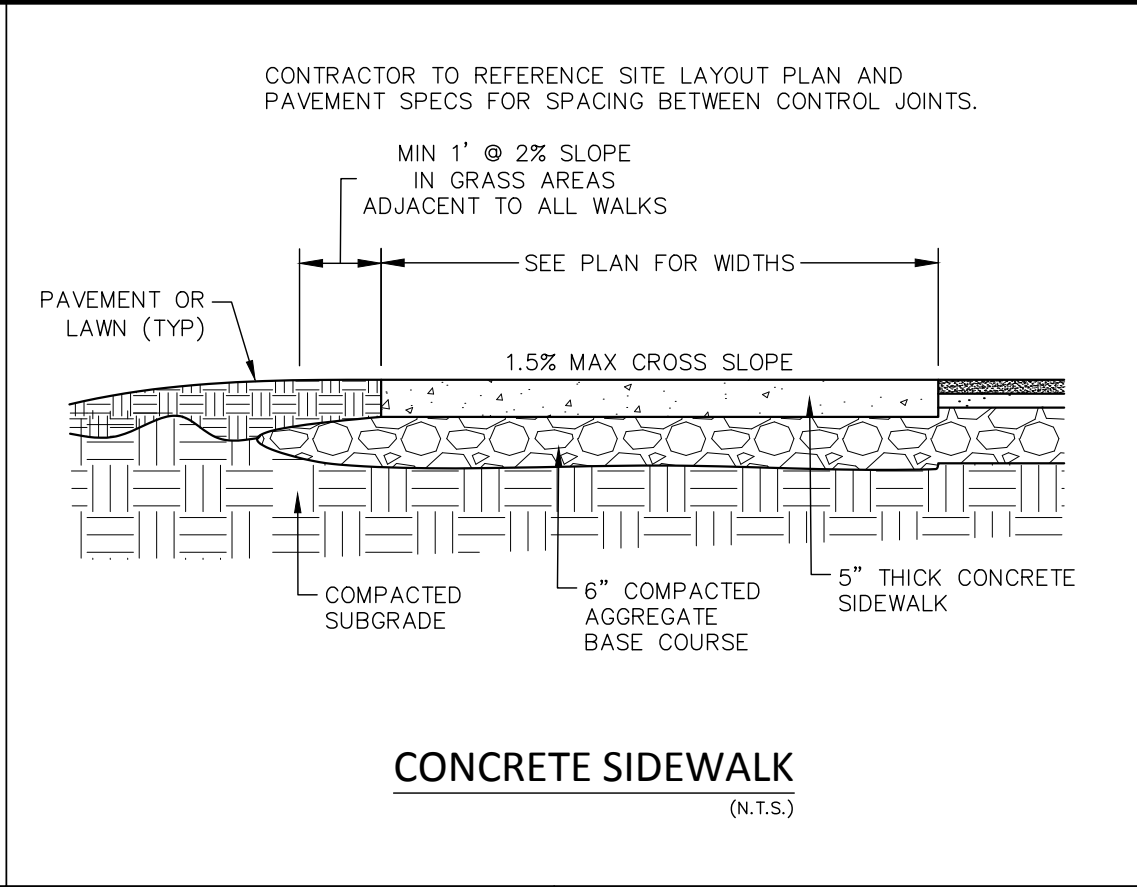
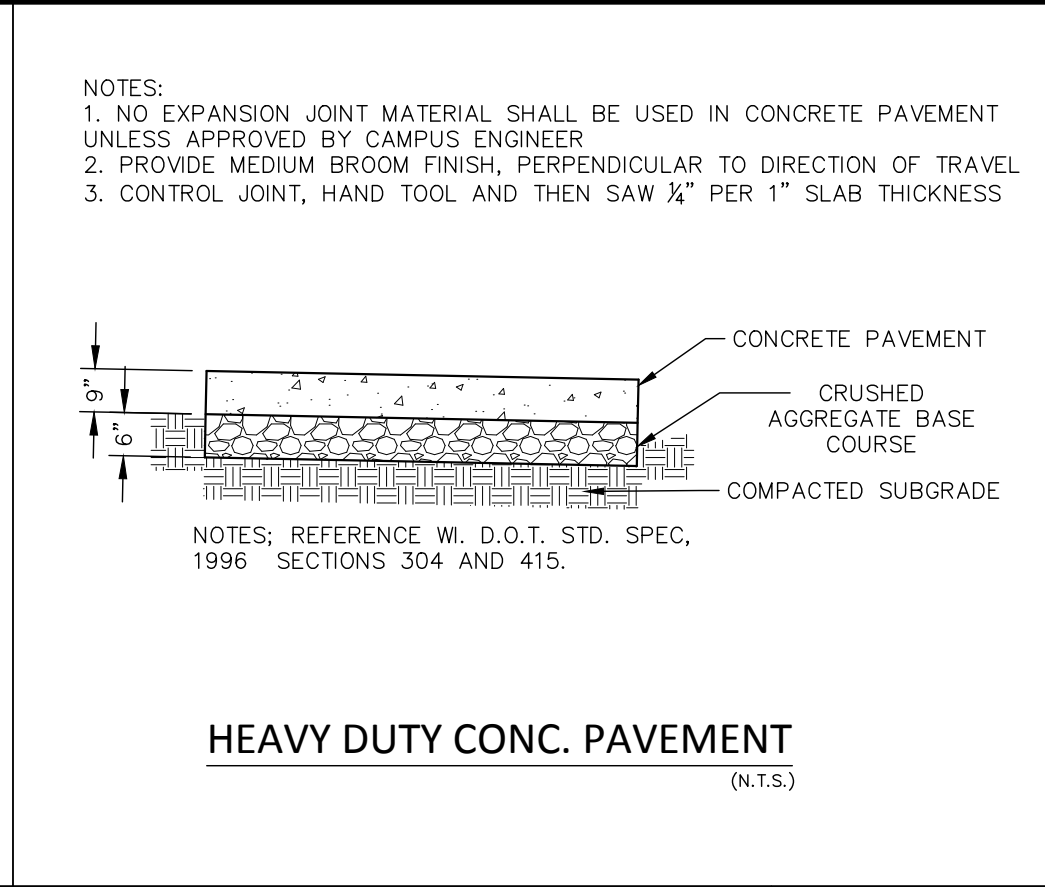
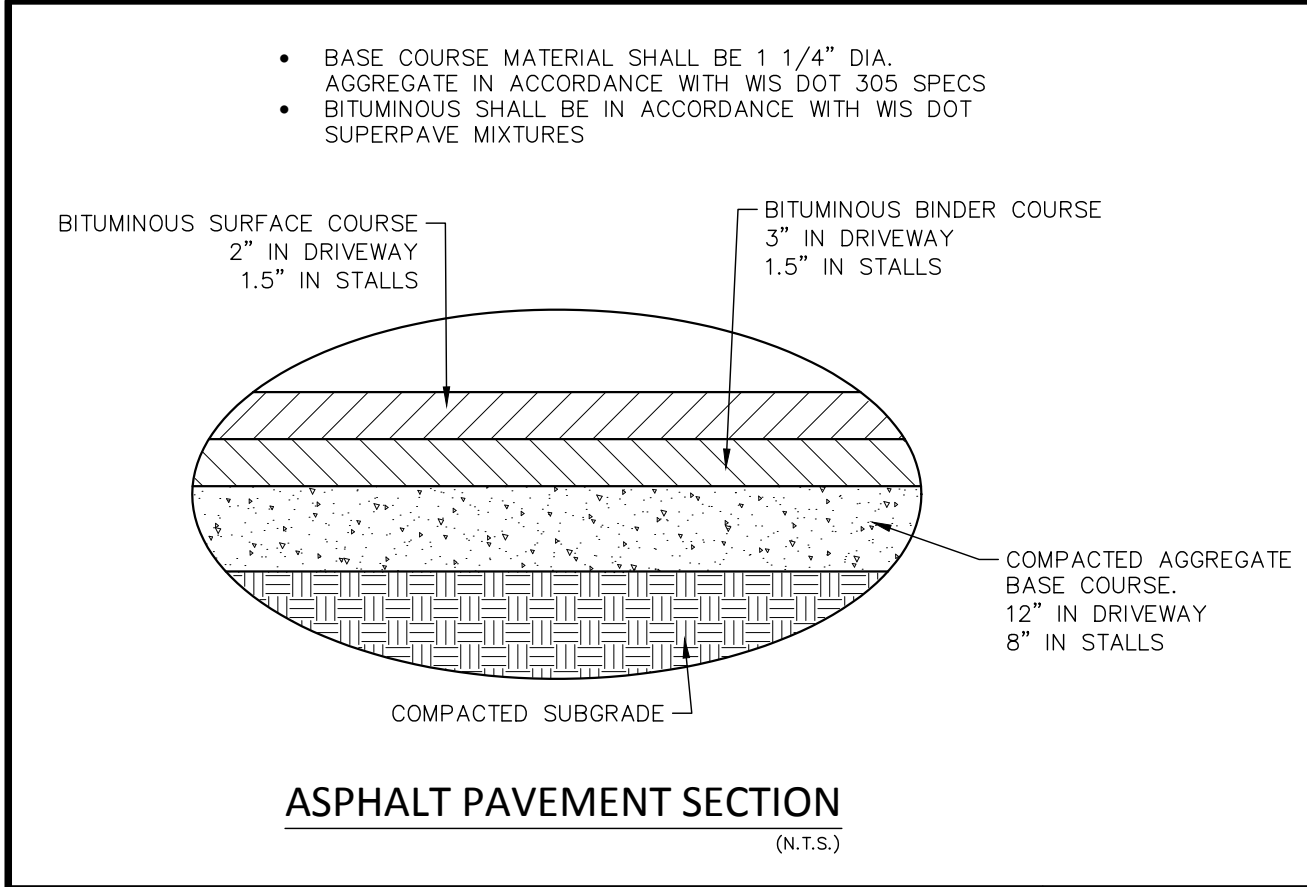


FITCHBURG FIRE - EAST
FITCHBURG, WI

WATERMAIN PLAN & PROFILE

FILE NO. FITCH_139706	C500
DATE 01/23/2018	OF ____

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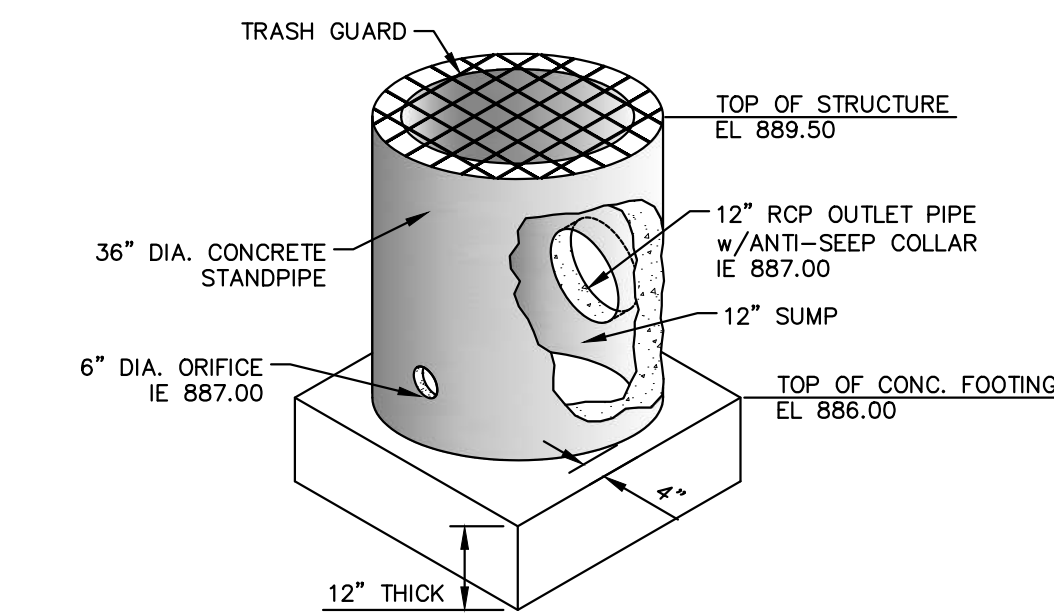


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CHECKED BY: J. VAYNBERG				
DESIGN TEAM	NO.	BY	DATE	REVISIONS



FITCHBURG FIRE - EAST
FITCHBURG, WI

CONSTRUCTION DETAILS		FILE NO. FITCH_139706	C600
		DATE 01/23/2018	



1. INSTALL RISER VERTICALLY ON TOP OF GRAVEL BASE
2. POUR FOOTING AROUND BASE OF STRUCTURE
(EXTEND 4" BEYOND PIPE EDGE)
3. FILL RISER WITH CONCRETE TO SUMP ELEVATION

PROPOSED WEIR ELEV. = 890.50

FINAL TOP OF BERM EL.: 891.00

20'

0.50'

4:1

5%

SPILLWAY SHALL BE CONSTRUCTED USING CLASS III - TYPE 'B' EROSION MATTING

EMERGENCY SPILLWAY

(N.T.S.)

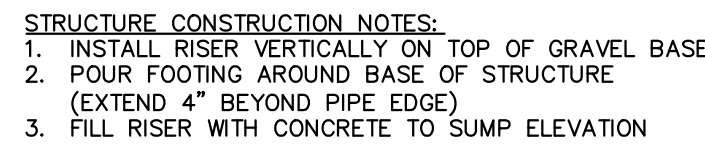
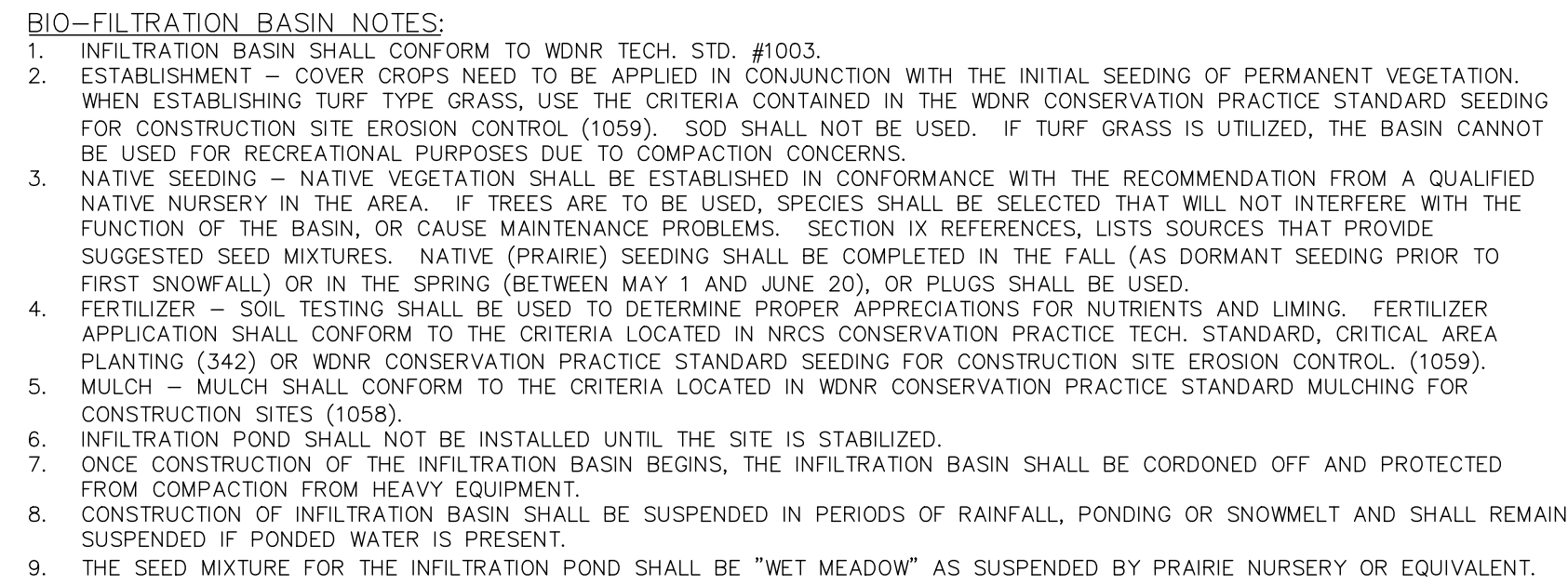
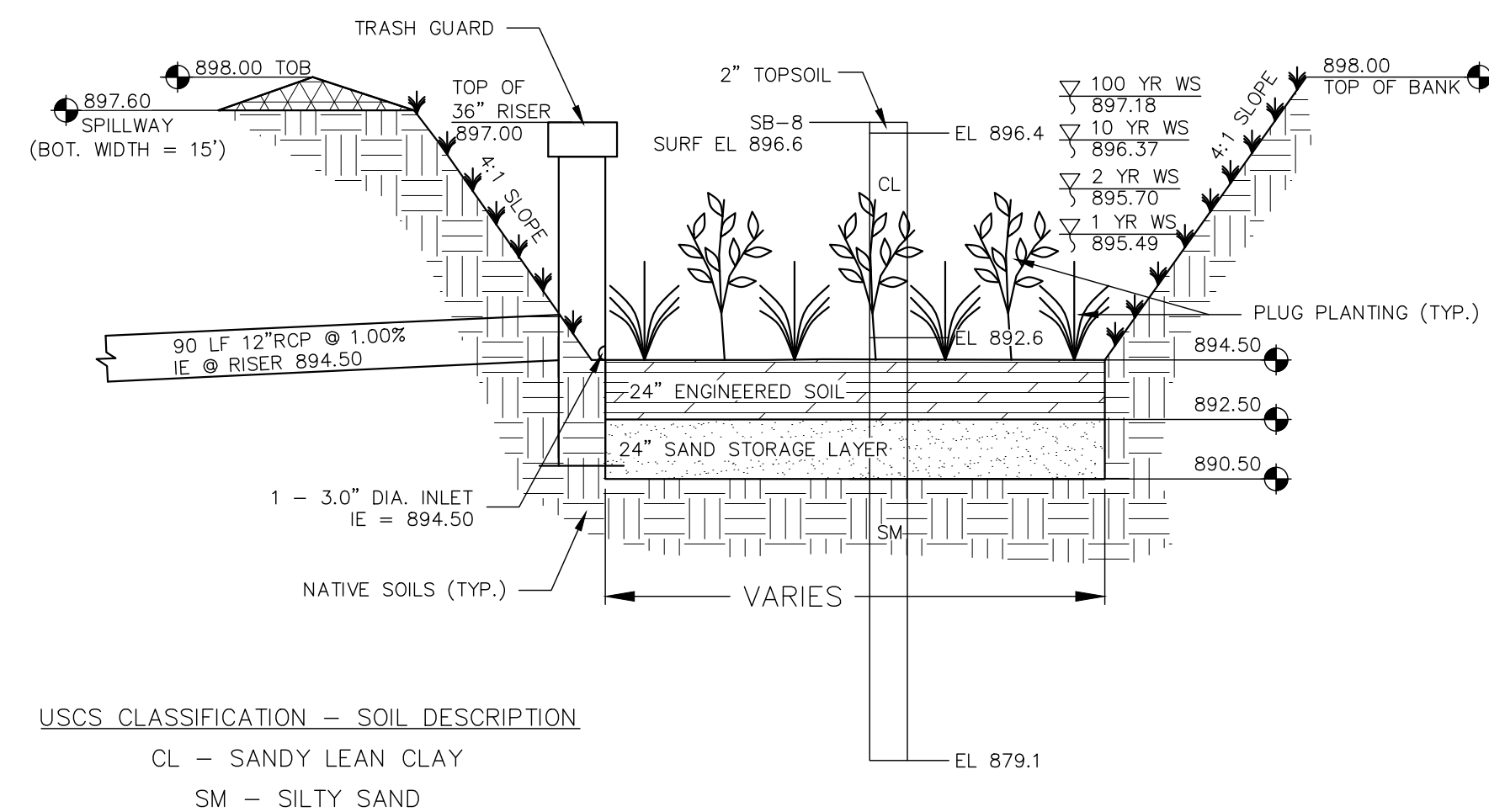


Diagram illustrating the cross-section of an Emergency Spillway. The structure is a trapezoidal channel with a bottom width of 0.40' and a top width of 15'. The channel is filled with a hatched pattern representing erosion matting. A dashed line indicates the 'PROPOSED WEIR ELEV. = 897.7'. A solid line indicates the 'FINAL TOP OF BERM EL.:'. The right slope is labeled '4:1 CL'. A note states: 'SPILLWAY SHALL BE CONSTRUCTED USING CLASS III - TYPE 'B' EROSION MATTING'. The diagram is labeled '(N.T.S.)'.

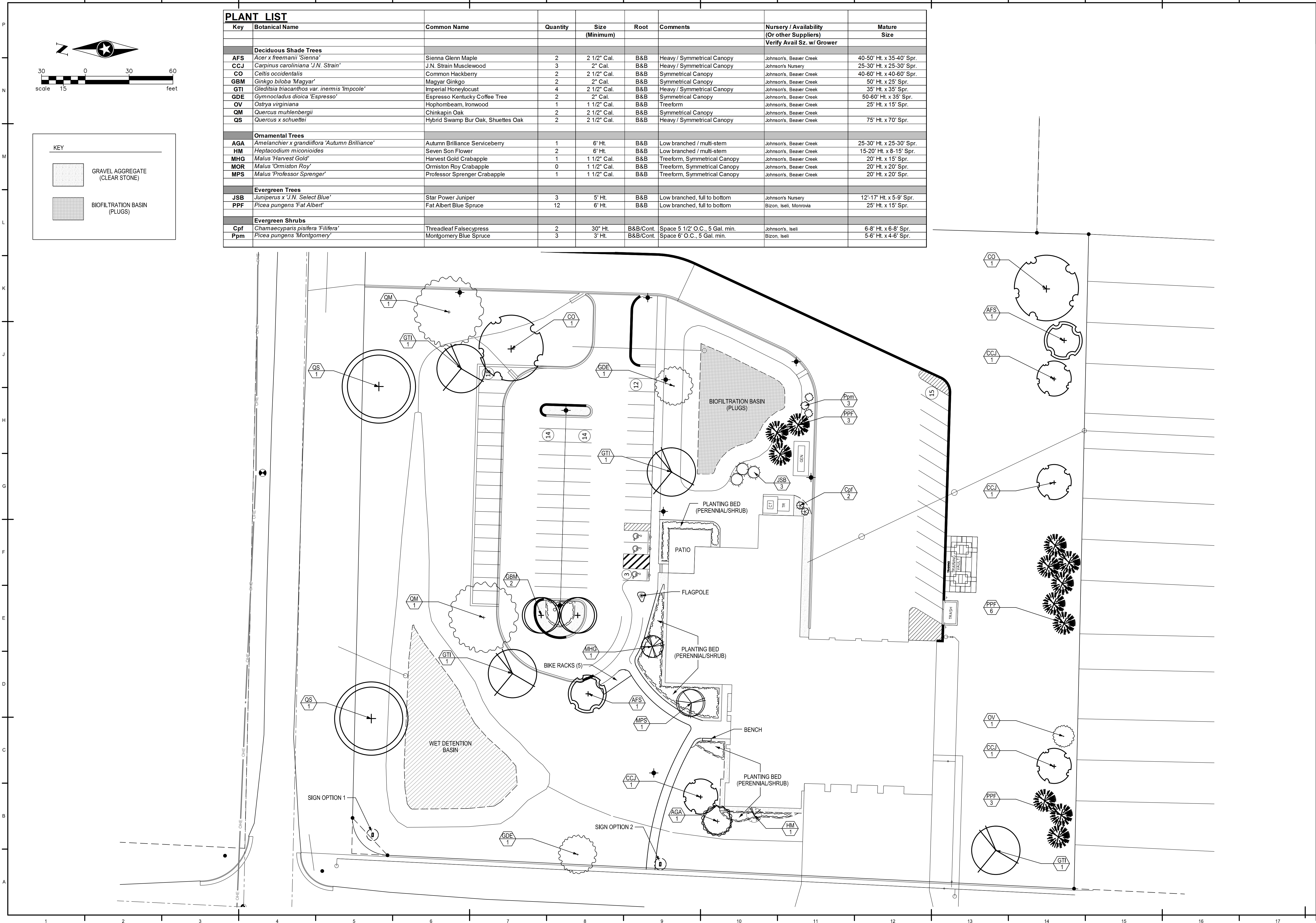


1. THE PROPOSED WET BASIN IS TO BE USED AS A TEMPORARY SEDIMENT TRAP DURING CONSTRUCTION. ONCE THE CONTRIBUTING WATERSHED HAS 80% COVER ESTABLISHED; REMOVE ANY ACCUMULATED SEDIMENT FROM FOREBAY AND RESTORE THE BASIN BOTTOM TO DESIGN GRADE.
2. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE THE WET CELL HOLDS WATER TO THE 2 YR STORM ELEVATION AND THAT THE CLAY LINER IS NOT DAMAGED WHILE REMOVING ANY ACCUMULATED SEDIMENT ONCE THE SITE HAS BEEN RESTORED.



USCS CLASSIFICATION - SOIL DESCRIPTION
CL - SANDY LEAN CLAY
SM - SILTY SAND

NOTE: BIO-FILTRATION BASIN TO BE CONSTRUCTED AFTER SITE RESTORATION IS COMPLETED.



PLANT LIST								
Key	Botanical Name	Common Name	Quantity	Size (Minimum)	Root	Comments	Nursery / Availability (Or other Suppliers) Verify Avail Sz. w/ Grower	Mature Size
Deciduous Shade Trees								
AFS	<i>Acer x freemanii</i> 'Sienna'	Sienna Glenn Maple	2	2 1/2" Cal.	B&B	Heavy / Symmetrical Canopy	Johnson's, Beaver Creek	40-50' Ht. x 35-40' Spr.
CCJ	<i>Carpinus caroliniana</i> 'J.N. Strain'	J.N. Strain Musclemwood	3	2" Cal.	B&B	Heavy / Symmetrical Canopy	Johnson's Nursery	25-30' Ht. x 25-30' Spr.
CO	<i>Celtis occidentalis</i>	Common Hackberry	2	2 1/2" Cal.	B&B	Symmetrical Canopy	Johnson's, Beaver Creek	40-60' Ht. x 40-60' Spr.
GBM	<i>Ginkgo biloba</i> 'Magyar'	Magyar Ginkgo	2	2" Cal.	B&B	Symmetrical Canopy	Johnson's, Beaver Creek	50' Ht. x 25' Spr.
GTI	<i>Gleditsia triacanthos</i> var. <i>inermis</i> 'Impcole'	Imperial Honeylocust	4	2 1/2" Cal.	B&B	Heavy / Symmetrical Canopy	Johnson's, Beaver Creek	35' Ht. x 35' Spr.
GDE	<i>Gymnocladus dioica</i> 'Espresso'	Espresso Kentucky Coffee Tree	2	2" Cal.	B&B	Symmetrical Canopy	Johnson's, Beaver Creek	50-60' Ht. x 35' Spr.
OV	<i>Ostrya virginiana</i>	Hophornbeam, Ironwood	1	1 1/2" Cal.	B&B	Treeform	Johnson's, Beaver Creek	25' Ht. x 15' Spr.
QM	<i>Quercus muhlenbergii</i>	Chinkapin Oak	2	2 1/2" Cal.	B&B	Symmetrical Canopy	Johnson's, Beaver Creek	50-60' Ht. x 35' Spr.
QS	<i>Quercus x schuettei</i>	Hybrid Swamp Bur Oak, Shuettes Oak	2	2 1/2" Cal.	B&B	Heavy / Symmetrical Canopy	Johnson's, Beaver Creek	75' Ht. x 70' Spr.
Ornamental Trees								
AGA	<i>Amelanchier x grandiflora</i> 'Autumn Brilliance'	Autumn Brilliance Serviceberry	1	6' Ht.	B&B	Low branched / multi-stem	Johnson's, Beaver Creek	25-30' Ht. x 25-30' Spr.
HM	<i>Heptacodium miconioides</i>	Seven Son Flower	2	6' Ht.	B&B	Low branched / multi-stem	Johnson's, Beaver Creek	15-20' Ht. x 8-15' Spr.
MHG	<i>Malus 'Harvest Gold'</i>	Harvest Gold Crabapple	1	1 1/2" Cal.	B&B	Treeform, Symmetrical Canopy	Johnson's, Beaver Creek	20' Ht. x 15' Spr.
MOR	<i>Malus 'Ormiston Roy'</i>	Ormiston Roy Crabapple	0	1 1/2" Cal.	B&B	Treeform, Symmetrical Canopy	Johnson's, Beaver Creek	20' Ht. x 20' Spr.
MPS	<i>Malus 'Professor Sprenger'</i>	Professor Sprenger Crabapple	1	1 1/2" Cal.	B&B	Treeform, Symmetrical Canopy	Johnson's, Beaver Creek	20' Ht. x 20' Spr.
Evergreen Trees								
JSB	<i>Juniperus x 'J.N. Select Blue'</i>	Star Power Juniper	3	5' Ht.	B&B	Low branched, full to bottom	Johnson's Nursery	12'-17' Ht. x 5-9' Spr.
PPF	<i>Picea pungens</i> 'Fat Albert'	Fat Albert Blue Spruce	12	6' Ht.	B&B	Low branched, full to bottom	Bizon, Iseli, Monrovia	25' Ht. x 15' Spr.
Evergreen Shrubs								
Cpf	<i>Chamaecyparis pisifera</i> 'Filifera'	Threadleaf Falsecypress	2	30" Ht.	B&B/Cont.	Space 5 1/2' O.C., 5 Gal. min.	Johnson's, Iseli	6-8' Ht. x 6-8' Spr.
Ppm	<i>Picea pungens</i> 'Montgomery'	Montgomery Blue Spruce	3	3' Ht.	B&B/Cont.	Space 6' O.C., 5 Gal. min.	Bizon, Iseli	5-6' Ht. x 4-6' Spr.

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& DESIGN
REVIEW

MARK	DATE	DESCRIPTION

FITCHBURG EAST
FIRE STATION

2950 SOUTH SYENE ROAD, FITCHBURG, WI

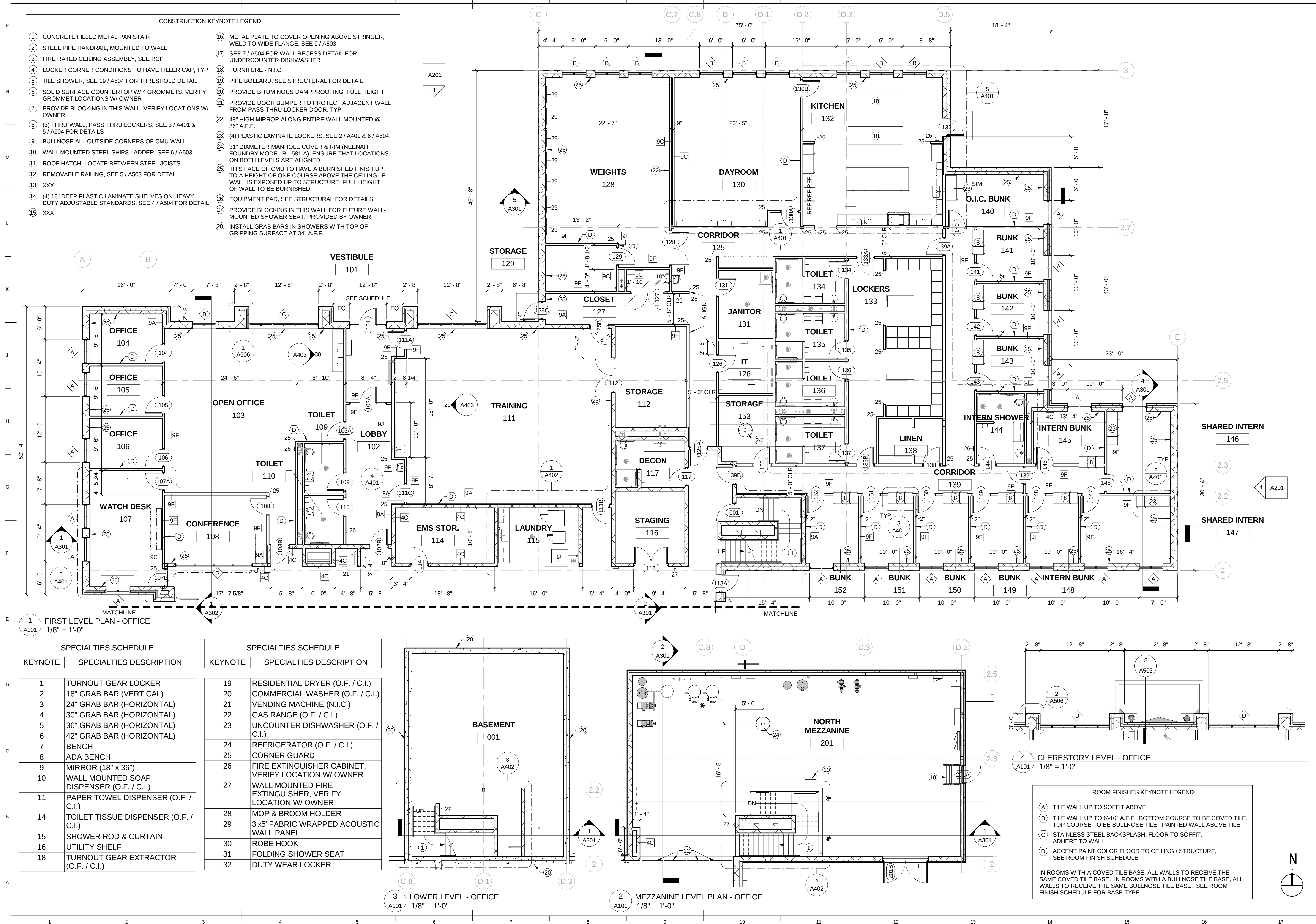
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JANUARY 23, 2018
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KAB, PAS
KAB, PAS
PAS

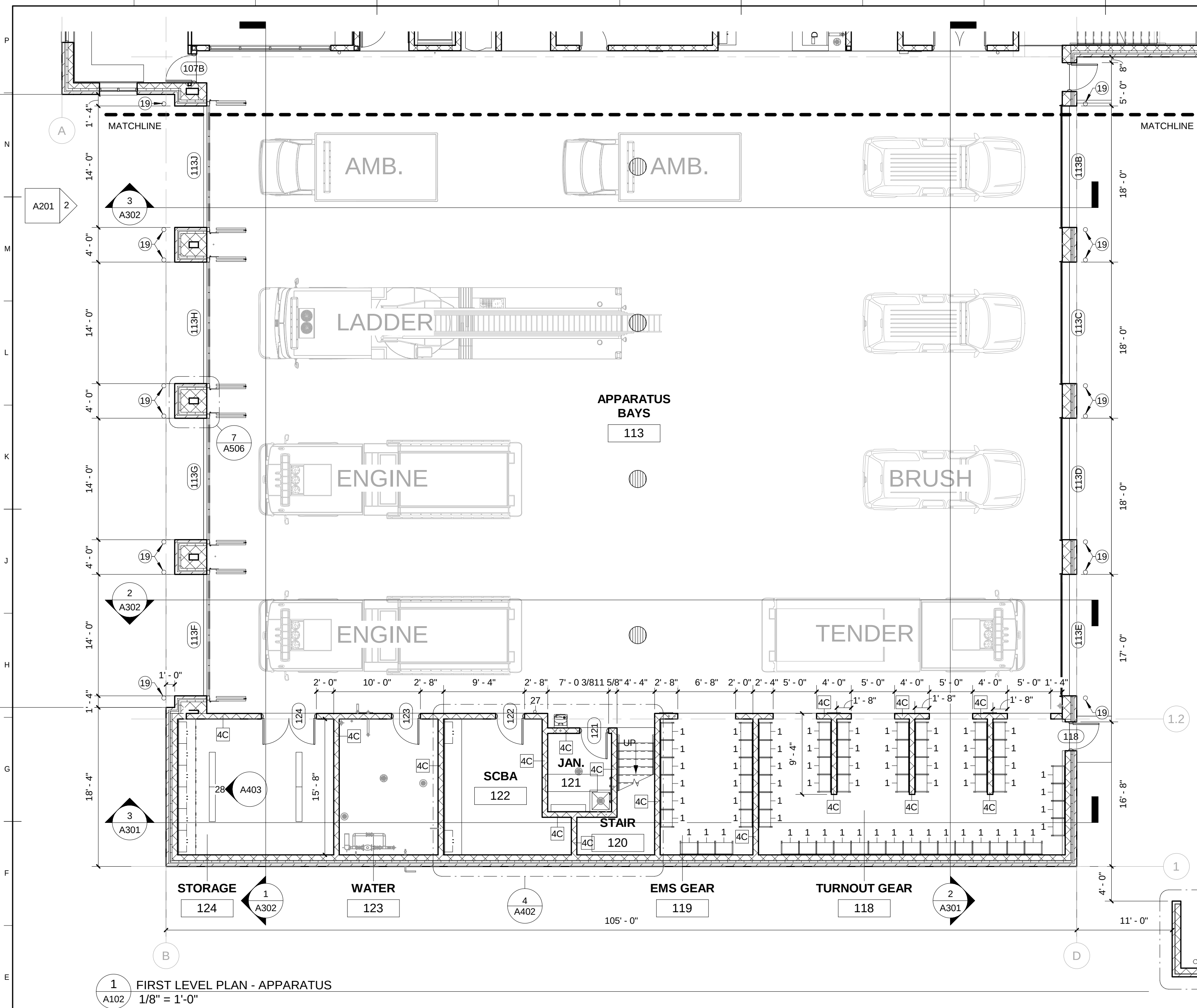
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OVERALL
PLANTING PLAN

L101

[illegible]

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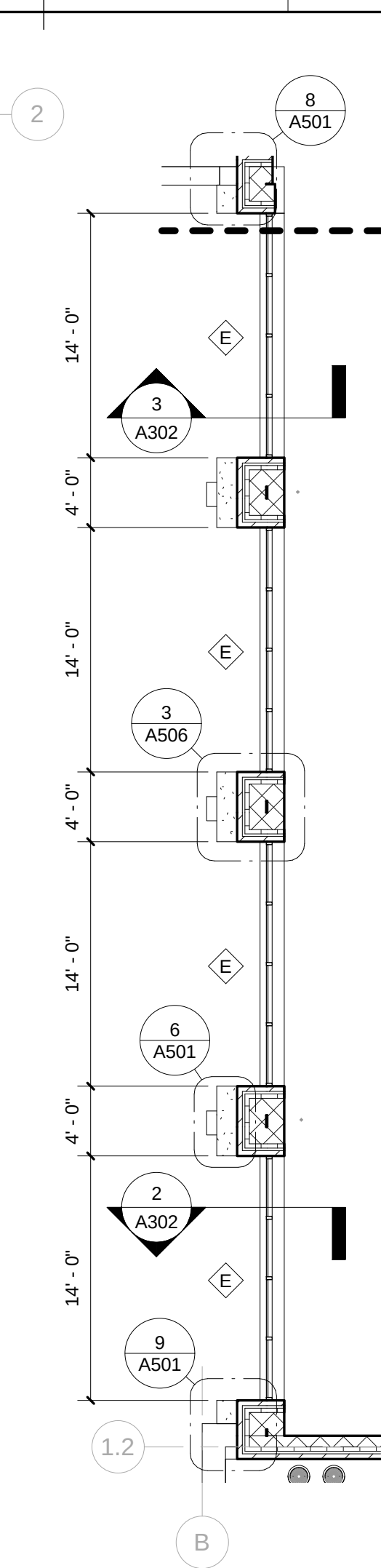


1 FIRST LEVEL PLAN - APPARATUS
1/8" = 1'-0"

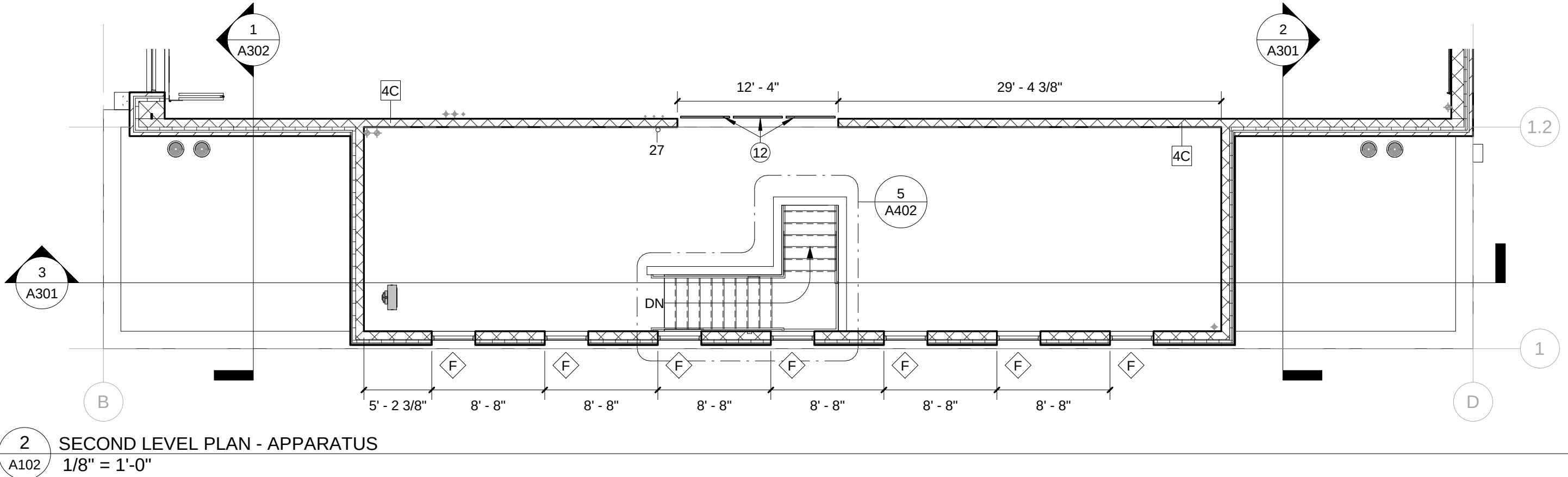
SPECIALTIES SCHEDULE	
KEYNOTE	SPECIALTIES DESCRIPTION
1	TURNOUT GEAR LOCKER
2	18" GRAB BAR (VERTICAL)
3	24" GRAB BAR (HORIZONTAL)
4	30" GRAB BAR (HORIZONTAL)
5	36" GRAB BAR (HORIZONTAL)
6	42" GRAB BAR (HORIZONTAL)
7	BENCH
8	ADA BENCH
9	MIRROR (18" x 36")
10	WALL MOUNTED SOAP DISPENSER (O.F. / C.I.)
11	PAPER TOWEL DISPENSER (O.F. / C.I.)
14	TOILET TISSUE DISPENSER (O.F. / C.I.)
15	SHOWER ROD & CURTAIN
16	UTILITY SHELF
18	TURNOUT GEAR EXTRACTOR (O.F. / C.I.)

SPECIALTIES SCHEDULE	
KEYNOTE	SPECIALTIES DESCRIPTION
19	RESIDENTIAL DRYER (O.F. / C.I.)
20	COMMERCIAL WASHER (O.F. / C.I.)
21	VENDING MACHINE (N.I.C.)
22	GAS RANGE (O.F. / C.I.)
23	UNCOUNTER DISHWASHER (O.F. / C.I.)
24	REFRIGERATOR (O.F. / C.I.)
25	CORNER GUARD
26	FIRE EXTINGUISHER CABINET, VERIFY LOCATION W/ OWNER
27	WALL MOUNTED FIRE EXTINGUISHER, VERIFY LOCATION W/ OWNER
28	MOP & BROOM HOLDER
29	3'x5' FABRIC WRAPPED ACOUSTIC WALL PANEL
30	ROBE HOOK
31	FOLDING SHOWER SEAT
32	DUTY WEAR LOCKER

3 CLERESTORY LEVEL - APPARATUS
1/8" = 1'-0"



CONSTRUCTION KEYNOTE LEGEND	
1 CONCRETE FILLED METAL PAN STAIR	16 METAL PLATE TO COVER OPENING ABOVE STRINGER, WELD TO WIDE FLANGE, SEE 9 / A503
2 STEEL PIPE HANDRAIL, MOUNTED TO WALL	17 SEE 7 / A504 FOR WALL RECESS DETAIL FOR UNDERCOUNTER DISHWASHER
3 FIRE RATED CEILING ASSEMBLY, SEE RCP	18 FURNITURE - N.I.C.
4 LOCKER CORNER CONDITIONS TO HAVE FILLER CAP, TYP.	19 PIPE BOLLARD, SEE STRUCTURAL FOR DETAIL
5 TILE SHOWER, SEE 19 / A504 FOR THRESHOLD DETAIL	20 PROVIDE BITUMINOUS DAMPPROOFING, FULL HEIGHT
6 SOLID SURFACE COUNTERTOP W/ 4 GROMMETS, VERIFY GROMMET LOCATIONS W/ OWNER	21 PROVIDE DOOR BUMPER TO PROTECT ADJACENT WALL FROM PASS-THRU LOCKER DOOR, TYP.
7 PROVIDE BLOCKING IN THIS WALL, VERIFY LOCATIONS W/ OWNER	22 48" HIGH MIRROR ALONG ENTIRE WALL MOUNTED @ 36" A.F.F.
8 (3) THRU-WALL, PASS-THRU LOCKERS, SEE 3 / A401 & 5 / A504 FOR DETAILS	23 (4) PLASTIC LAMINATE LOCKERS, SEE 2 / A401 & 6 / A504
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11 ROOF HATCH, LOCATE BETWEEN STEEL JOISTS	26 EQUIPMENT PAD, SEE STRUCTURAL FOR DETAILS
12 REMOVABLE RAILING, SEE 5 / A503 FOR DETAIL	27 PROVIDE BLOCKING IN THIS WALL FOR FUTURE WALL-MOUNTED SHOWER SEAT, PROVIDED BY OWNER
13 XXX	28 INSTALL GRAB BARS IN SHOWERS WITH TOP OF GRIPPING SURFACE AT 34" A.F.F.
14 (4) 18" DEEP PLASTIC LAMINATE SHELVES ON HEAVY DUTY ADJUSTABLE STANDARDS, SEE 4 / A504 FOR DETAIL	
15 XXX	



2 SECOND LEVEL PLAN - APPARATUS
1/8" = 1'-0"



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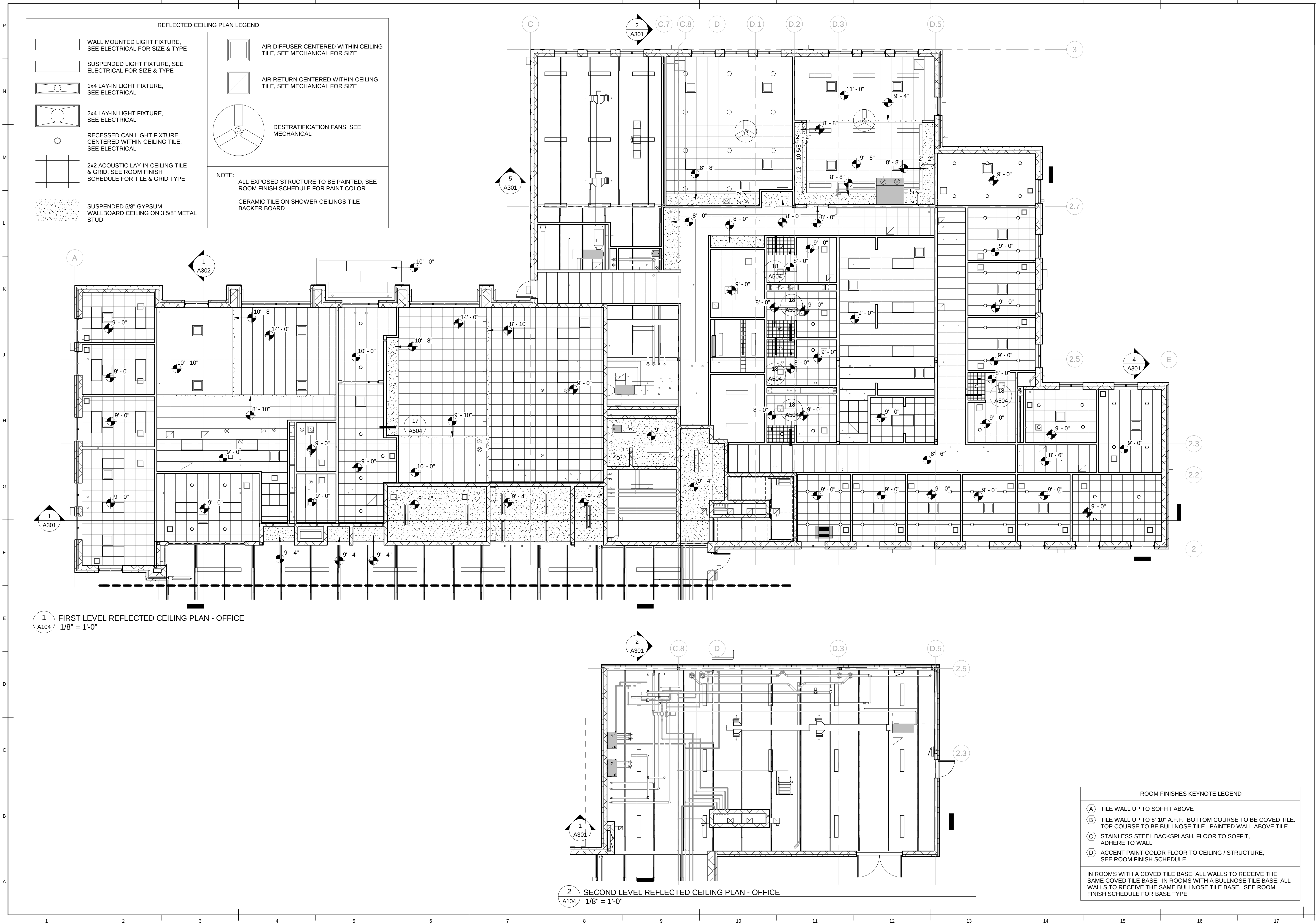
FITCHBURG EAST
FIRE STATION
2950 SOUTH SYENE ROAD, FITCHBURG, WI

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SHEET CONTENTS
FLOOR PLAN -
APPARATUS

A102

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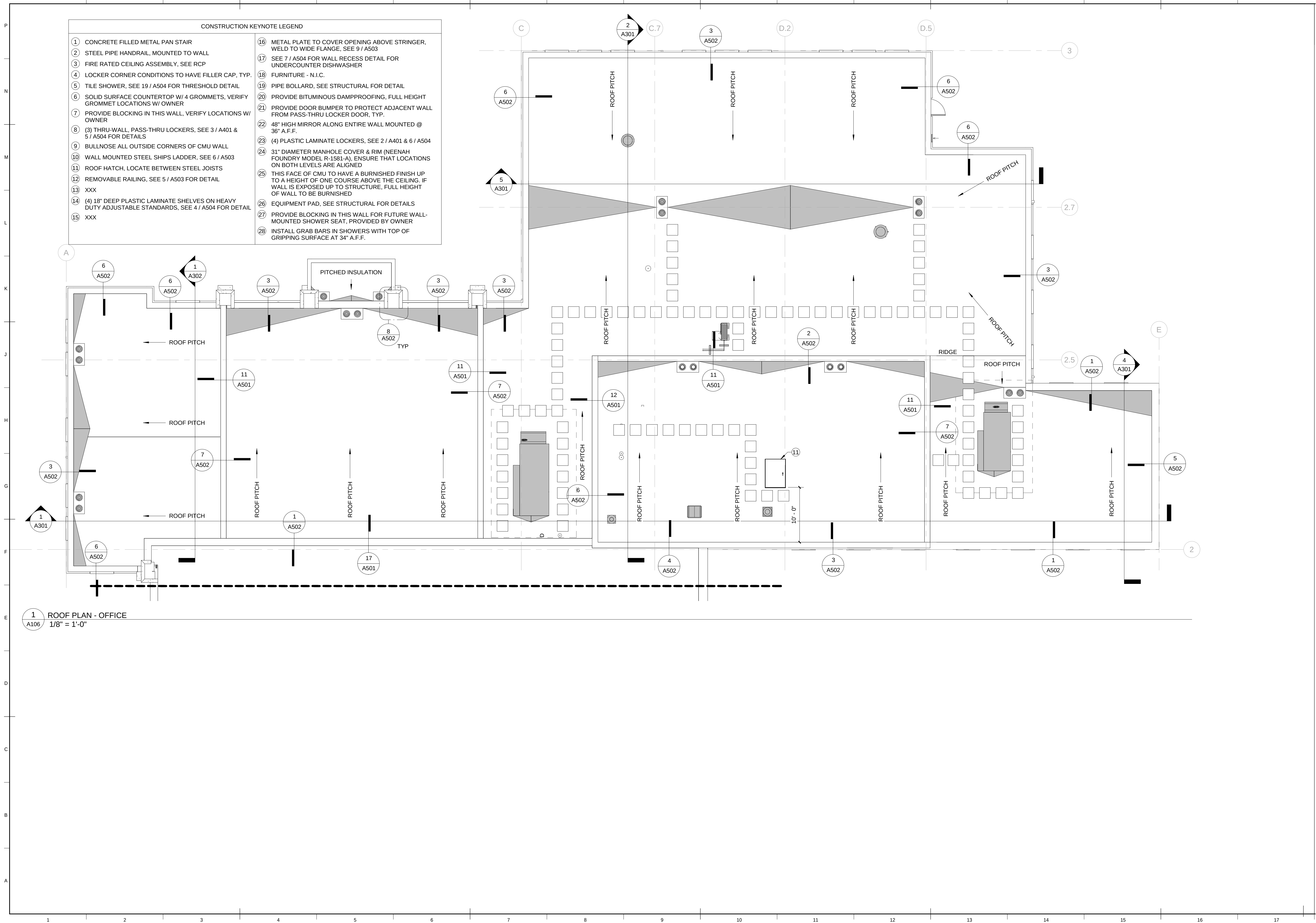
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REFLECTED
CEILING PLAN -
OFFICE

A104

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A106

SHEET CONTENTS
ROOF PLAN -
OFFICE

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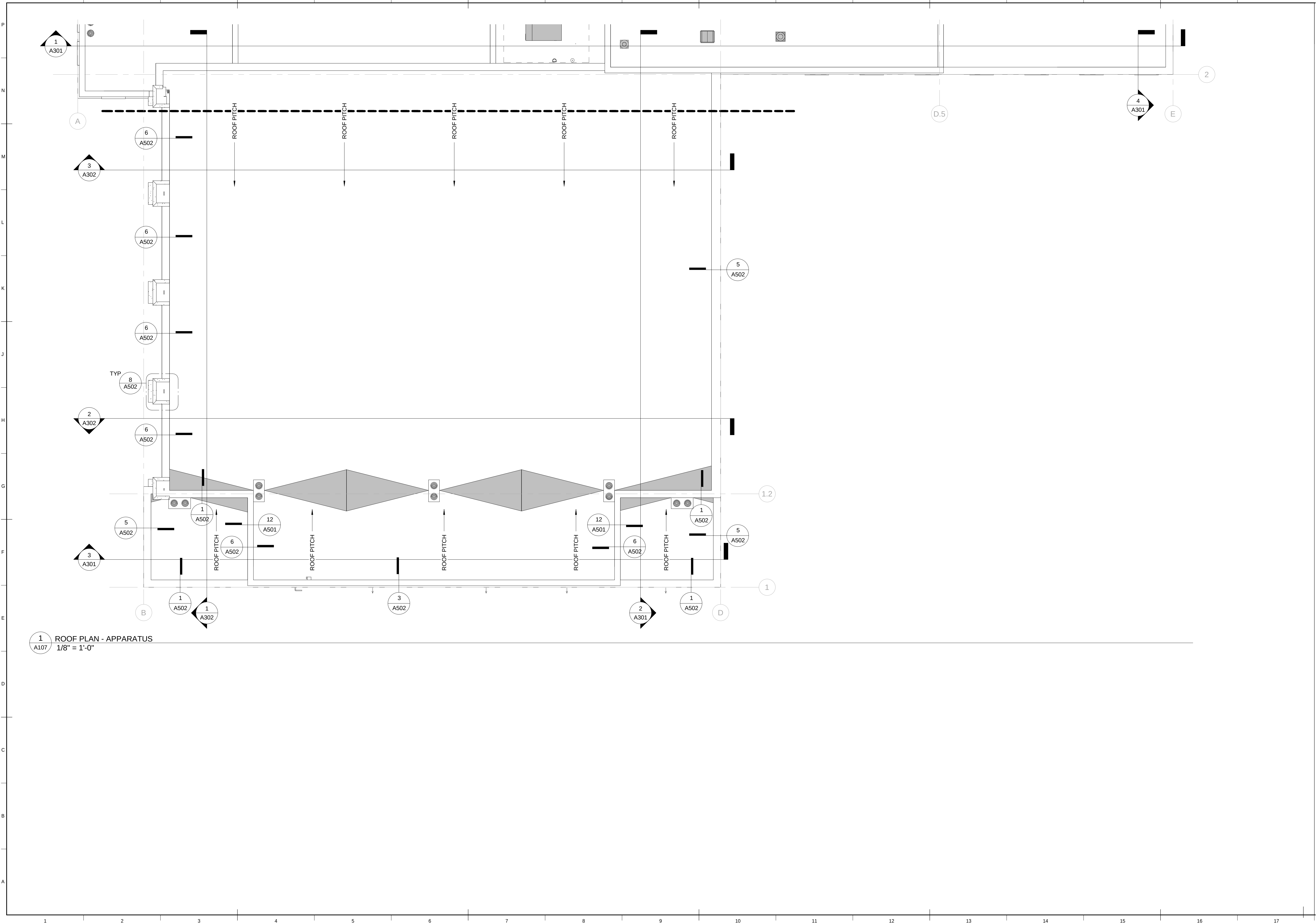
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1 ROOF PLAN - APPARATUS
1/8" = 1'-0"

A107

SHEET CONTENTS
ROOF PLAN -
APPARATUS

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FITCHBURG EAST
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EXTERIOR
ELEVATIONS

A201

EXTERIOR ELEVATIONS NOTES

THE METAL WALL PANEL SYSTEM JOINTS ARE SHOWN FOR THE PURPOSE OF DESIGN INTENT. FINAL PANEL DIMENSIONS AND LAYOUT ARE TO BE DETERMINED DURING SHOP DRAWING SUBMITTAL.

FACE BRICK - 1
INTERSTATE BRICK OR SIMILAR
DESERT SAND

FACE BRICK - 2
INTERSTATE BRICK OR SIMILAR
MOUNTAIN RED

METAL WALL PANEL SYSTEM
ALCOTEX METAL PANEL OR SIMILAR
CHAMPAGNE

BRICK COURSES SHADED ON THE EXTERIOR ELEVATIONS ARE TO BE RECESSED FROM THE OUTSIDE FACE 3/8", SEE DETAIL 14 / A501

[illegible]

FITCHBURG EAST
FIRE STATION

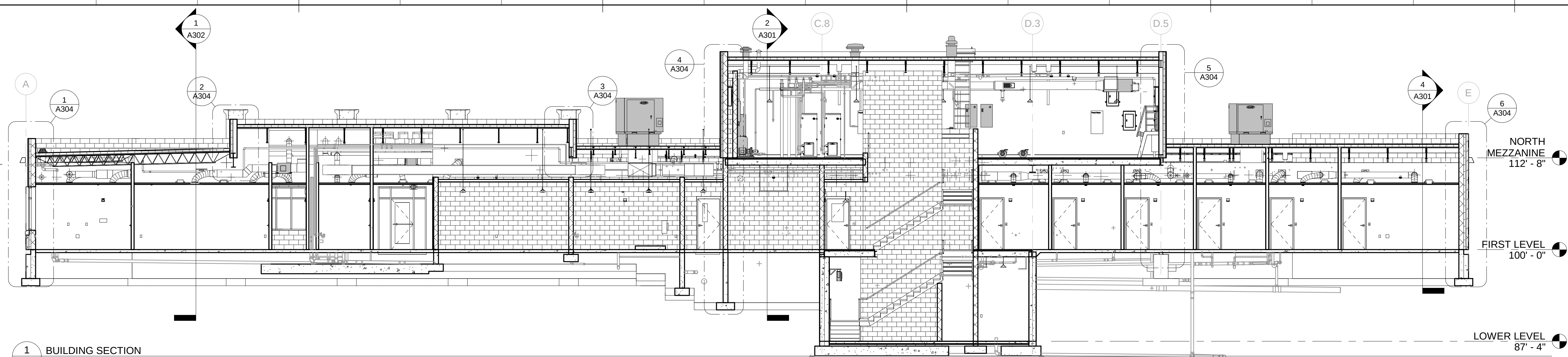
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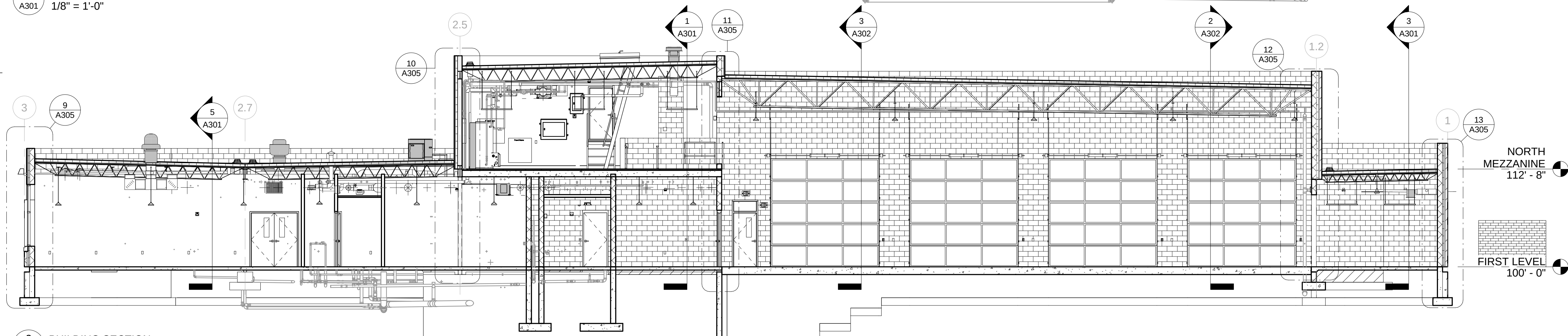
BUILDING SECTIONS

SHEET CONTENTS

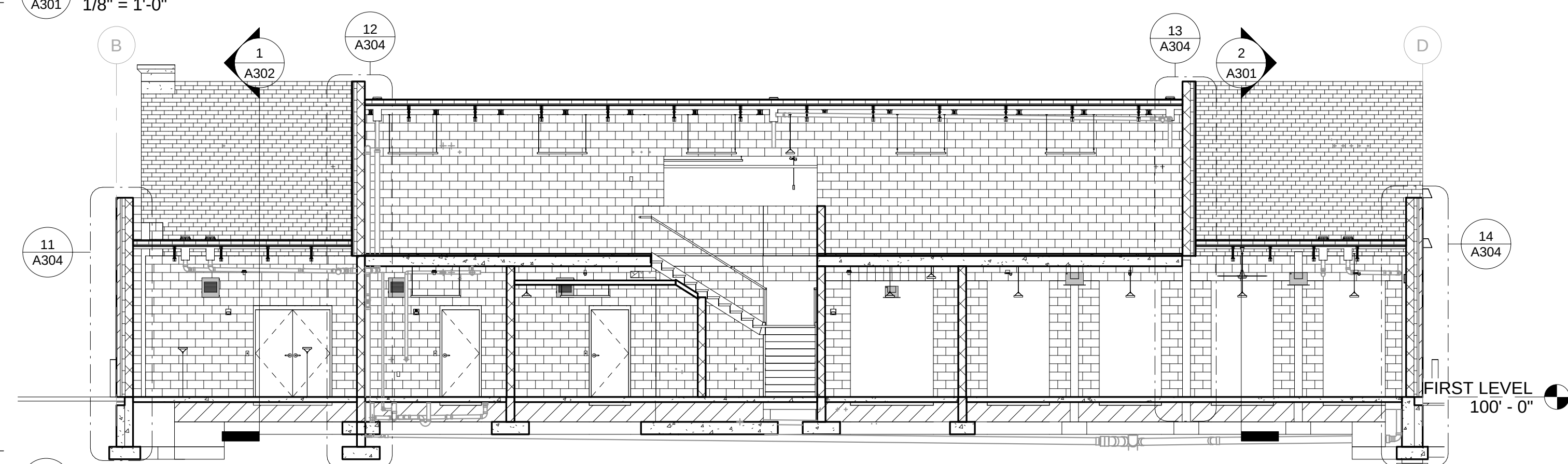
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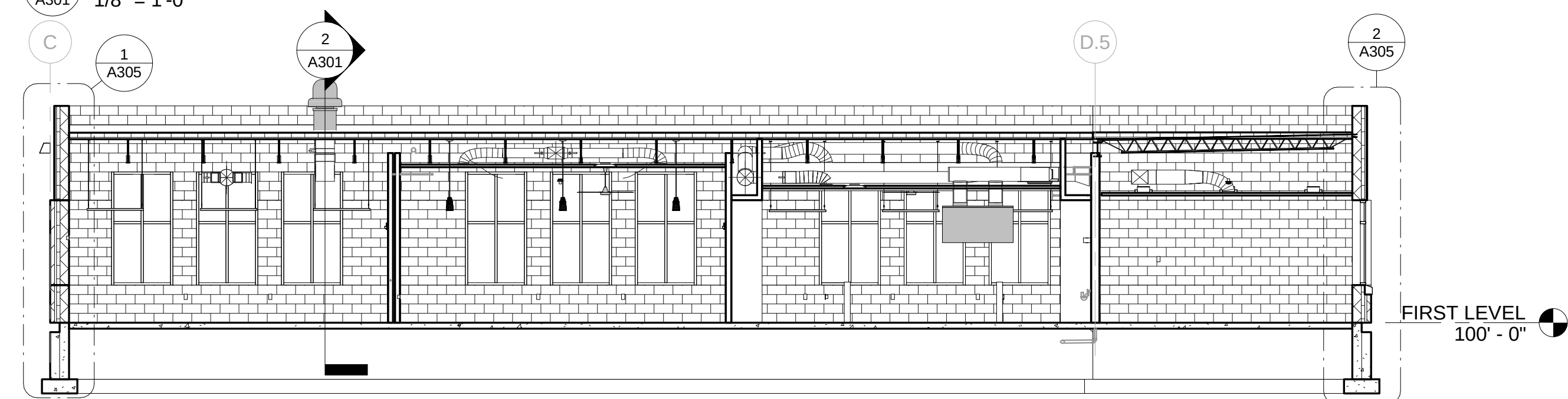
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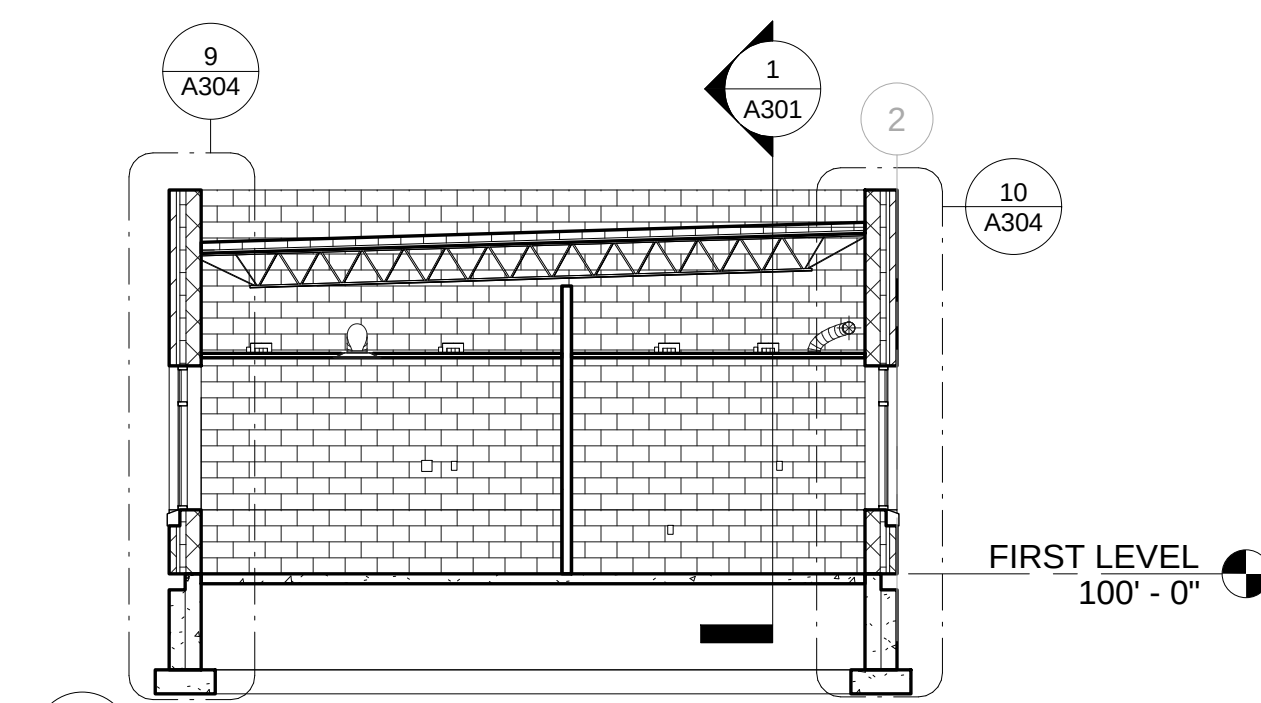
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A301 1/8" = 1'-0"



3 BUILDING SECTION
A301 1/8" = 1'-0"

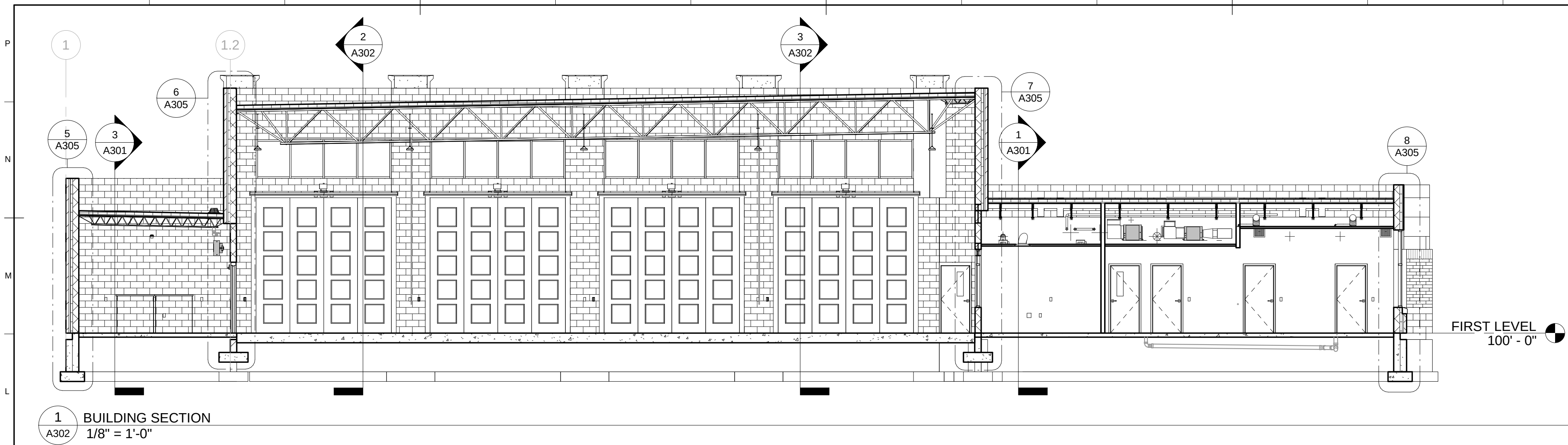


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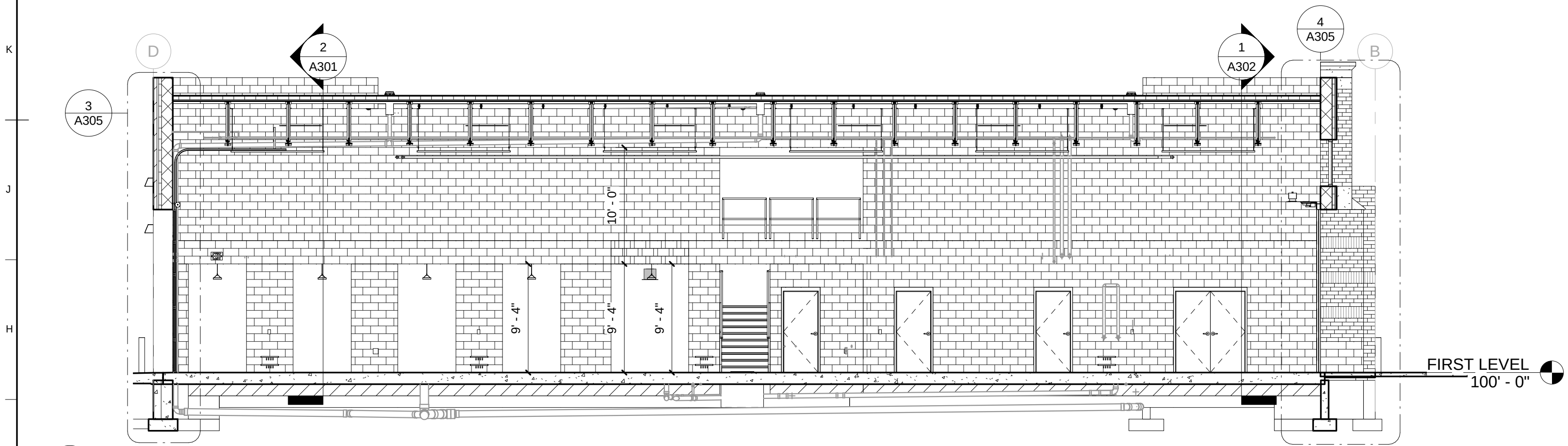


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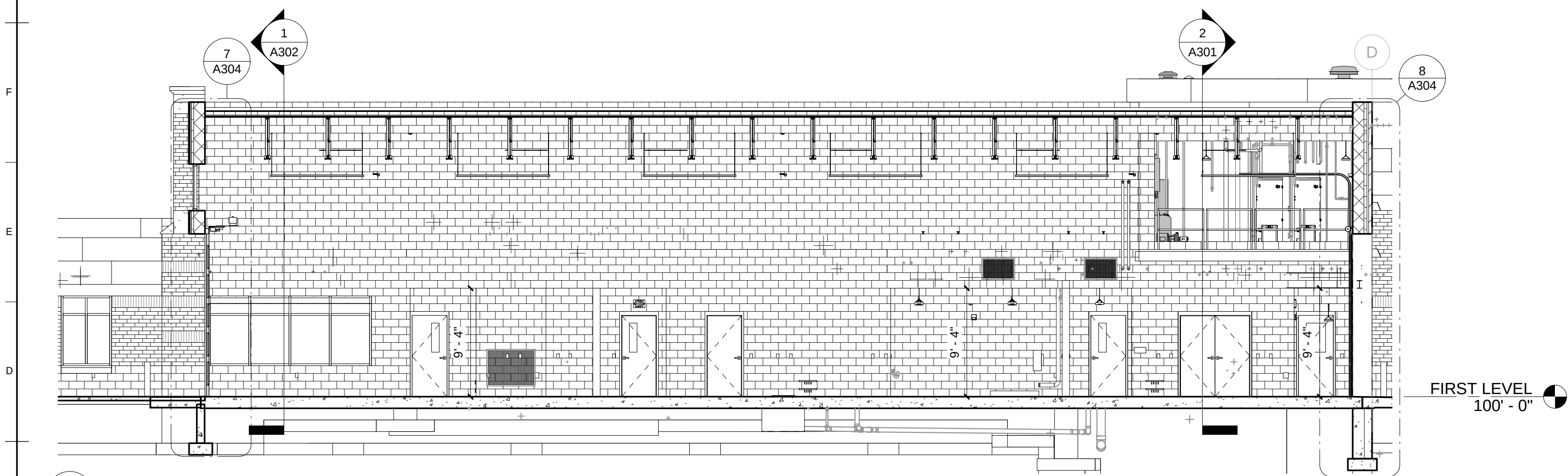
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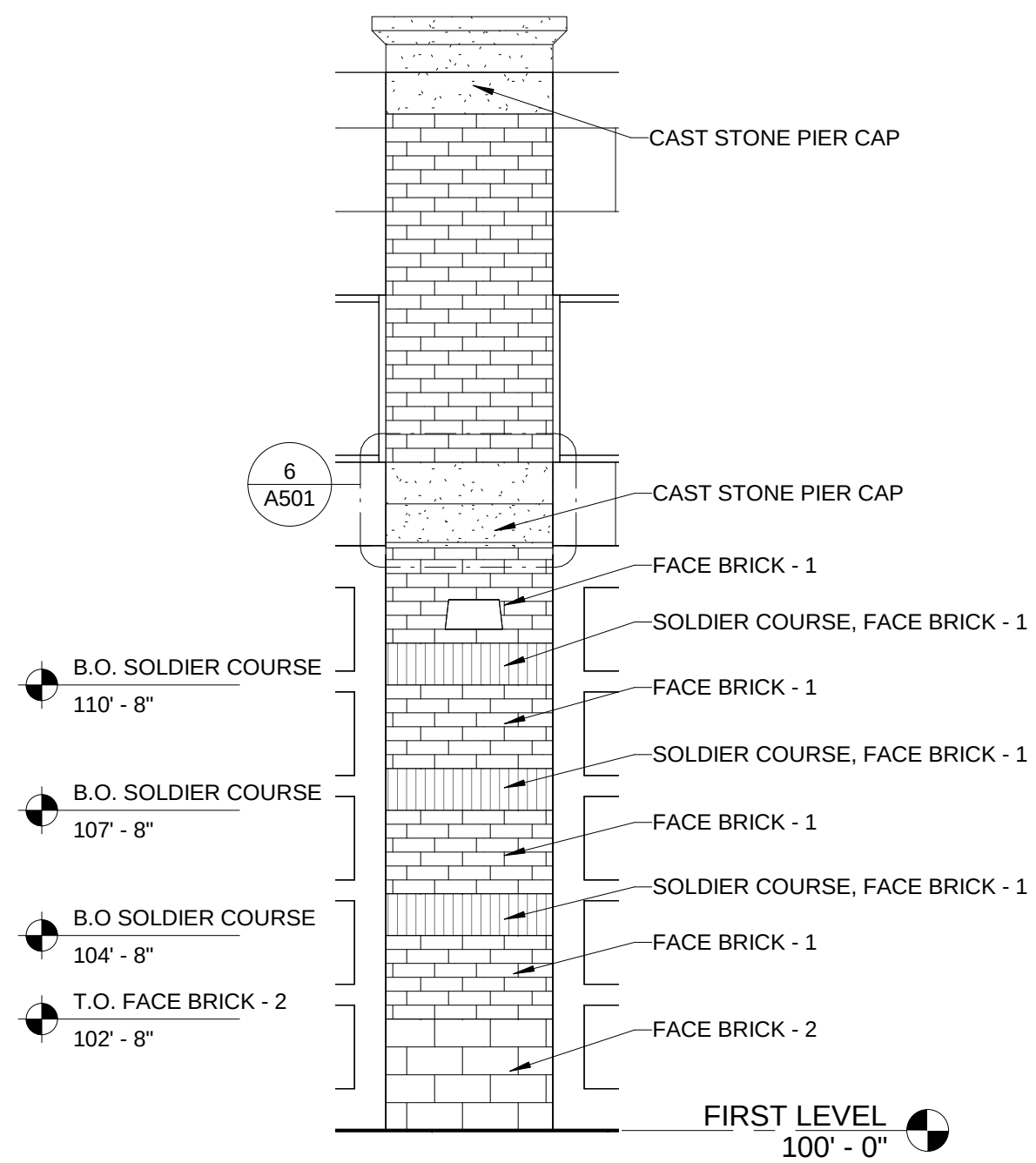
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1/8" = 1'-0"



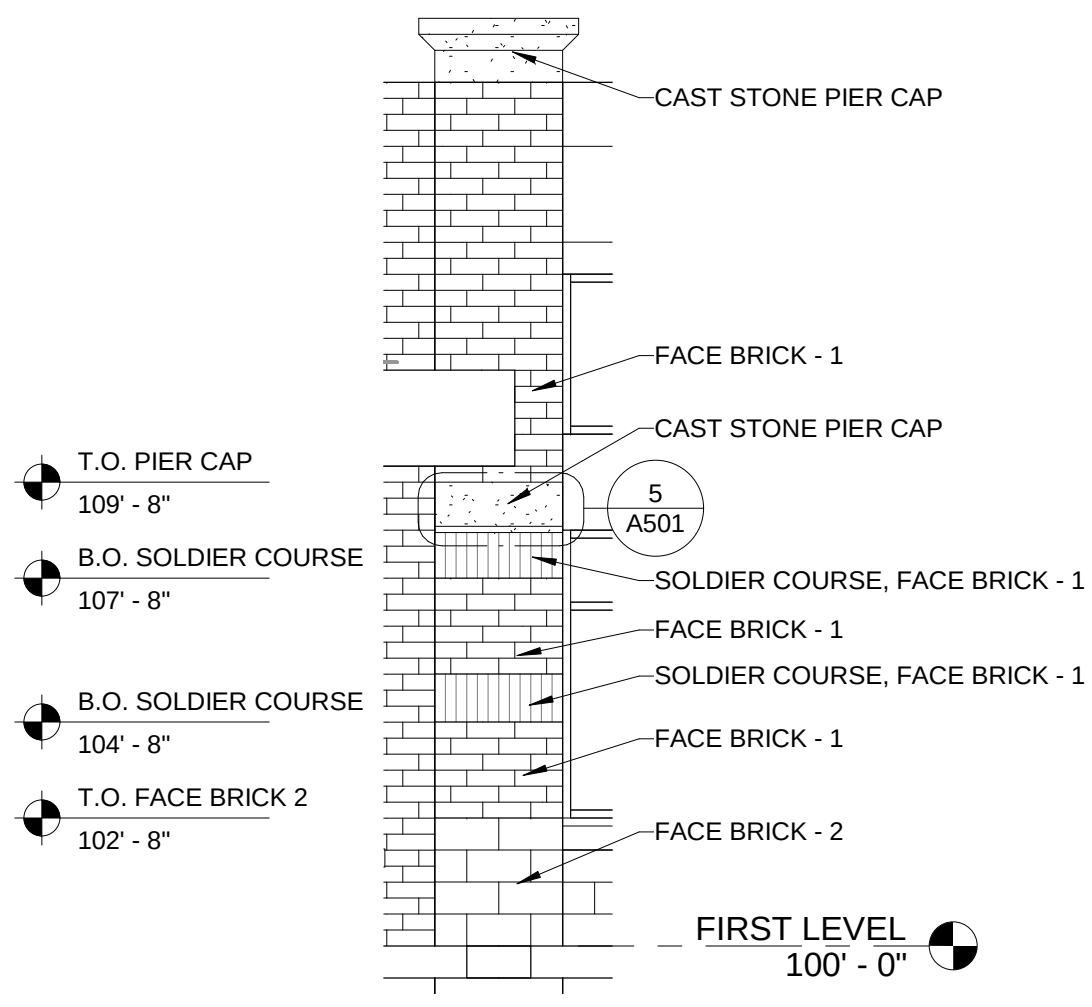
2 BUILDING SECTION
1/8" = 1'-0"



3 BUILDING SECTION
1/8" = 1'-0"



4 TYPICAL APPARATUS BAY PIER ELEVATION
1/4" = 1'-0"



5 TYPICAL OFFICE PIER ELEVATION
1/4" = 1'-0"



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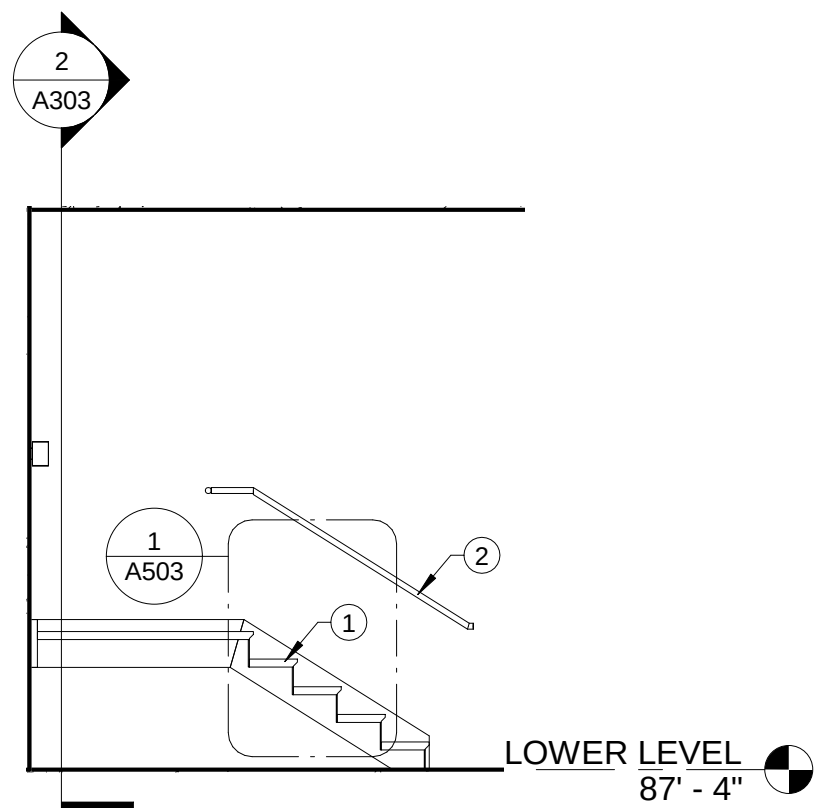
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FIRE STATION
2950 SOUTH SYENE ROAD, FITCHBURG, WI

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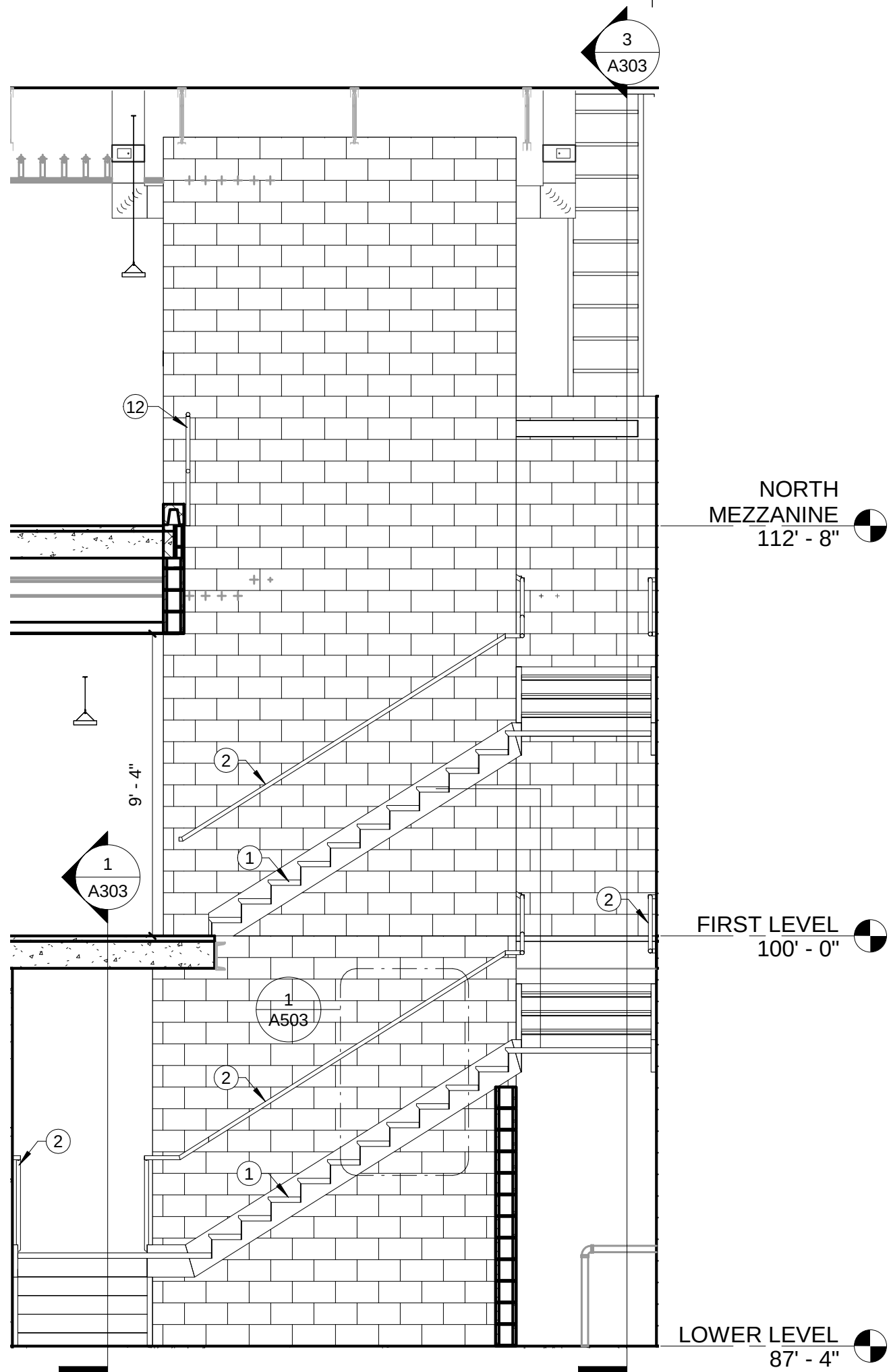
SHEET CONTENTS
BUILDING
SECTIONS

A302

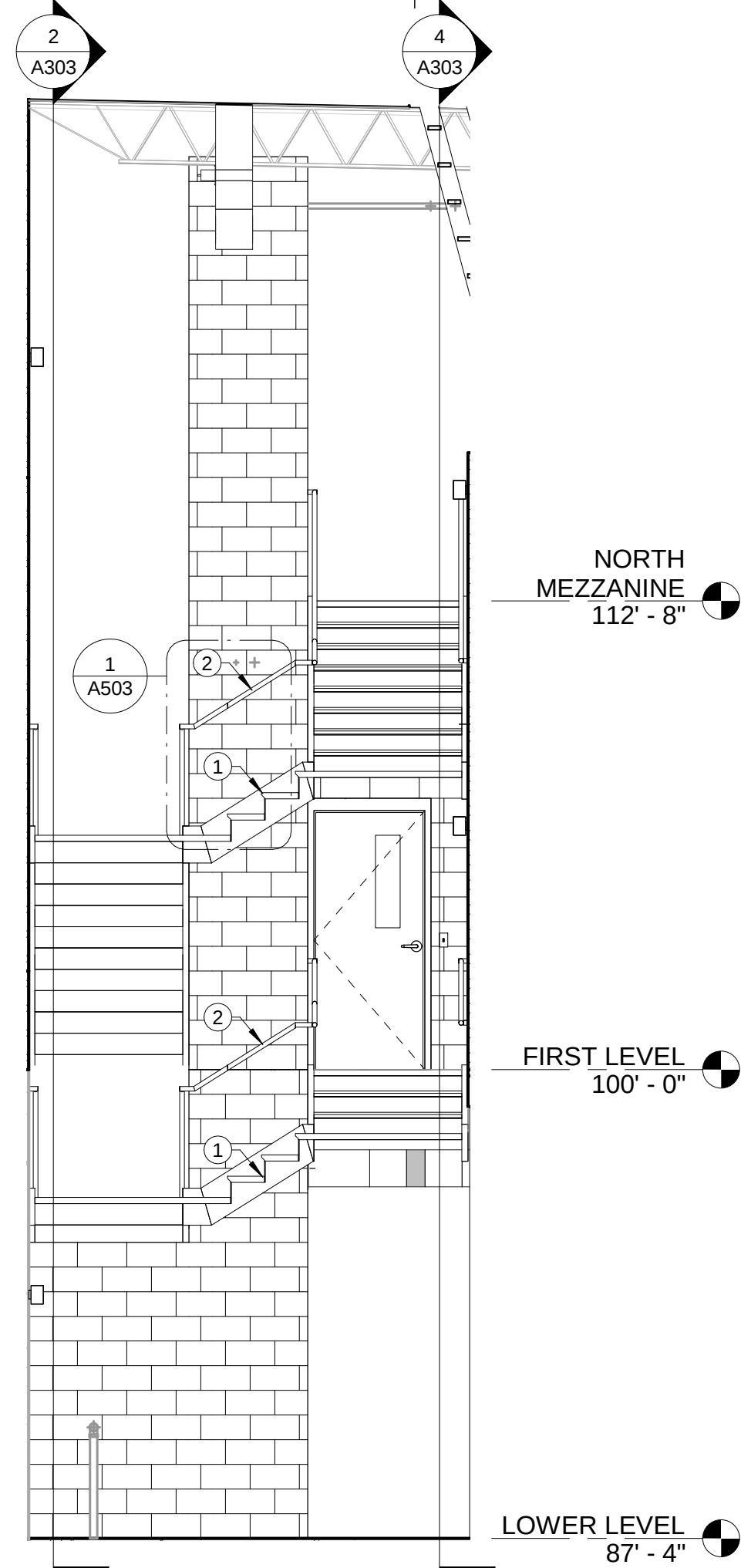
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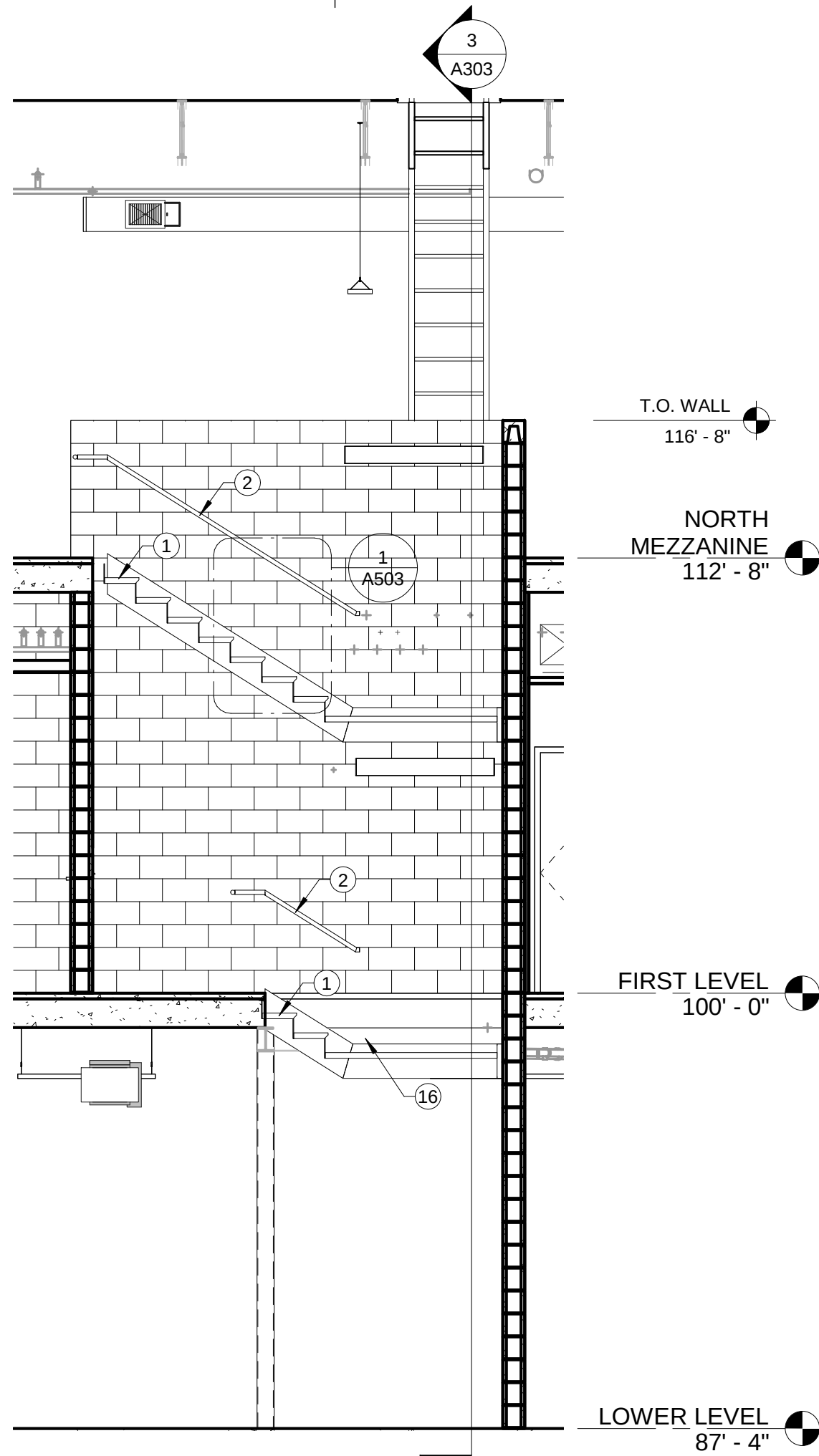
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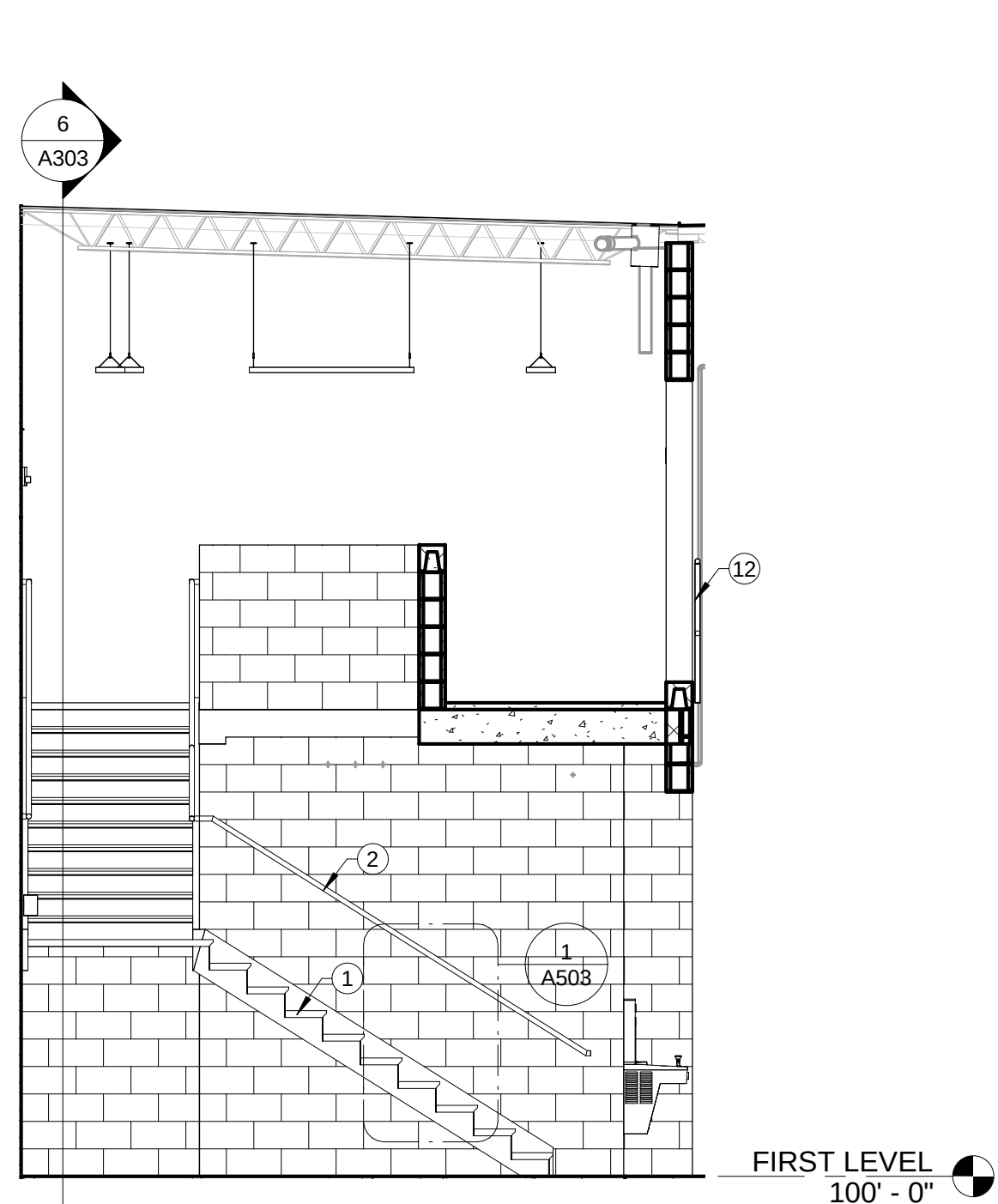
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A303 1/4" = 1'-0"



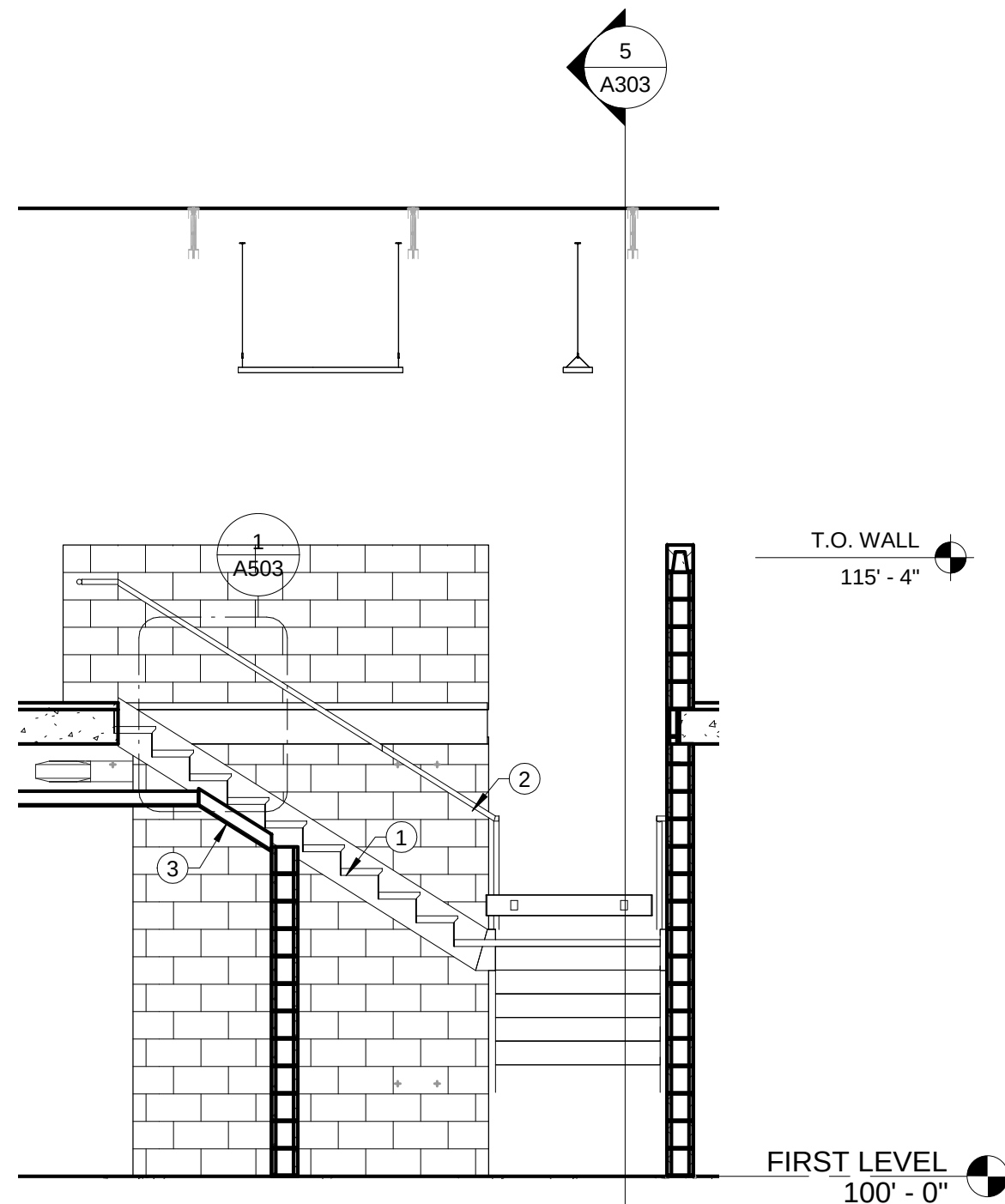
3 STAIR SECTION
A303 1/4" = 1'-0"



4 STAIR SECTION
A303 1/4" = 1'-0"



5 STAIR SECTION
A303 1/4" = 1'-0"



6 STAIR SECTION
A303 1/4" = 1'-0"

CONSTRUCTION KEYNOTE LEGEND	
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3 FIRE RATED CEILING ASSEMBLY, SEE RCP	18 FURNITURE - N.I.C.
4 LOCKER CORNER CONDITIONS TO HAVE FILLER CAP, TYP.	19 PIPE BOLLARD, SEE STRUCTURAL FOR DETAIL
5 TILE SHOWER, SEE 19 / A504 FOR THRESHOLD DETAIL	20 PROVIDE BITUMINOUS DAMPPROOFING, FULL HEIGHT
6 SOLID SURFACE COUNTERTOP W/ 4 GROMMETS, VERIFY GROMMET LOCATIONS W/ OWNER	21 PROVIDE DOOR BUMPER TO PROTECT ADJACENT WALL FROM PASS-THRU LOCKER DOOR, TYP.
7 PROVIDE BLOCKING IN THIS WALL, VERIFY LOCATIONS W/ OWNER	22 48" HIGH MIRROR ALONG ENTIRE WALL MOUNTED @ 36" A.F.F.
8 (3) THRU-WALL, PASS-THRU LOCKERS, SEE 3 / A401 & 5 / A504 FOR DETAILS	23 (4) PLASTIC LAMINATE LOCKERS, SEE 2 / A401 & 6 / A504
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SHEET CONTENTS
STAIR
SECTIONS

A303

ARCHITECTURAL & DESIGN REVIEW

[illegible]

FITCHBURG EAST
FIRE STATION

2950 SOUTH SYENE ROAD FITCHBURG WI

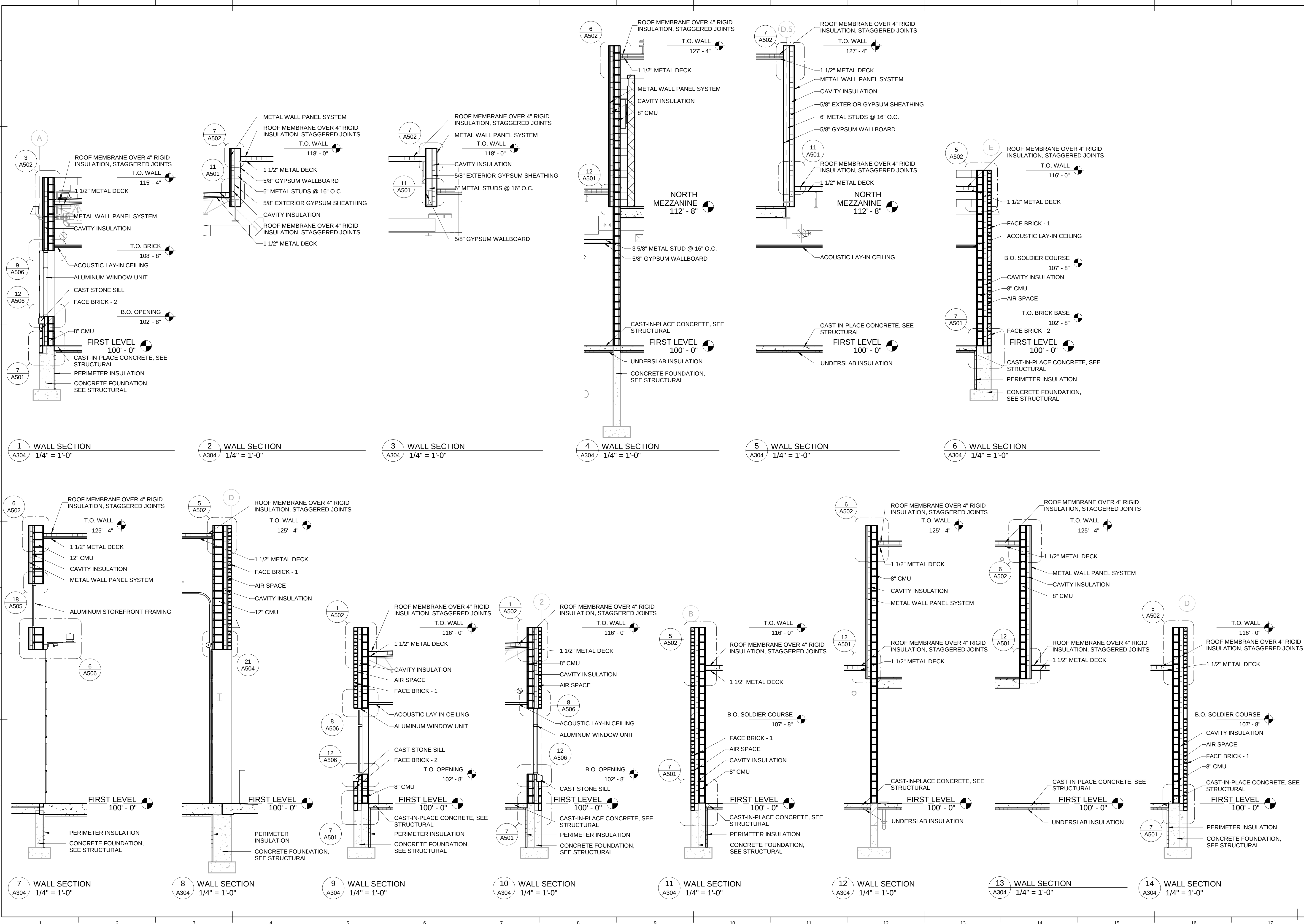
SEH FILE NO.	FITCH 139706
ISSUE DATE	JANUARY 23, 2018
DESIGN BY	TMF
DRAWN BY	MJZ
PROJECT MGR	TMF

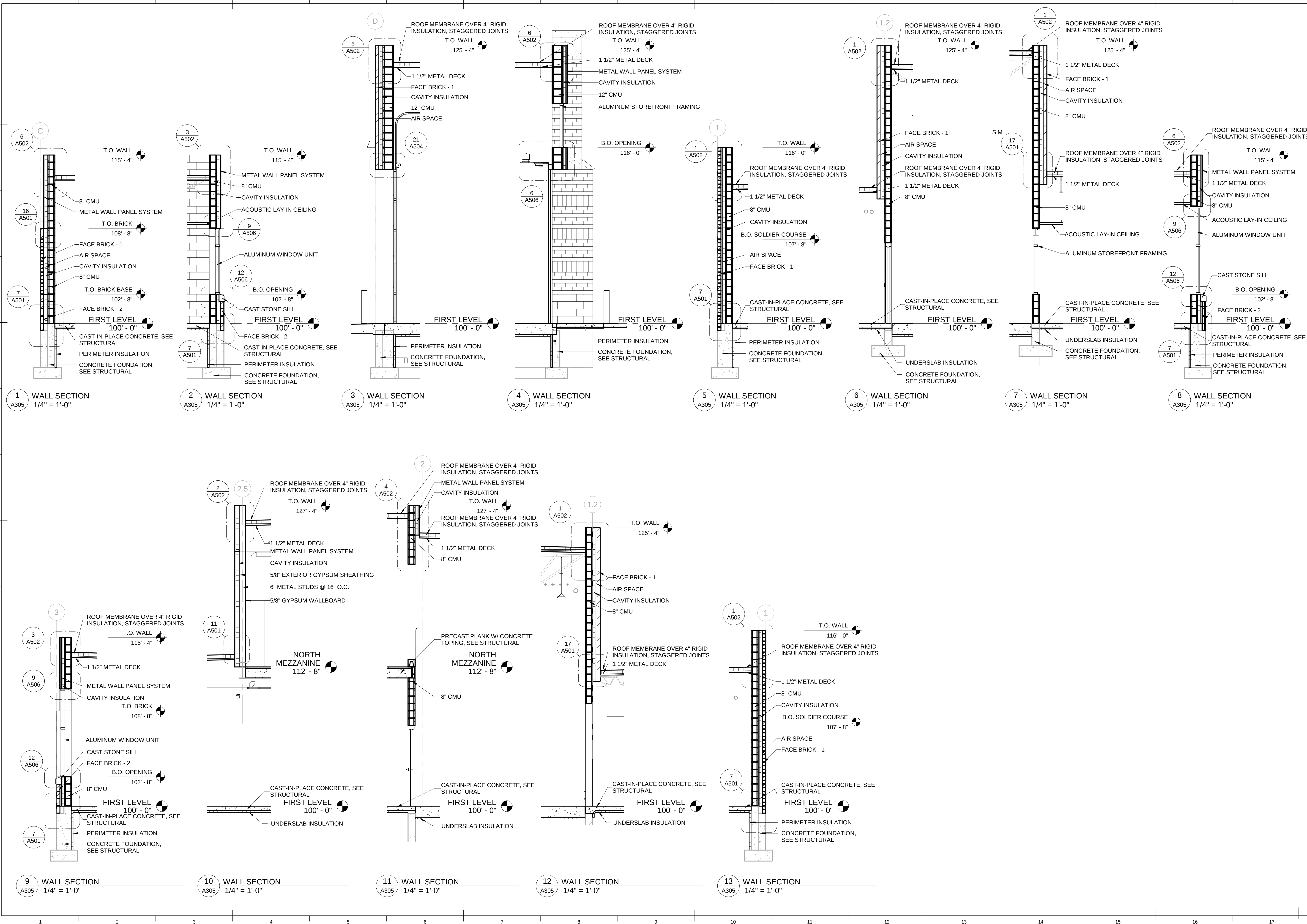
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WALL SECTIONS

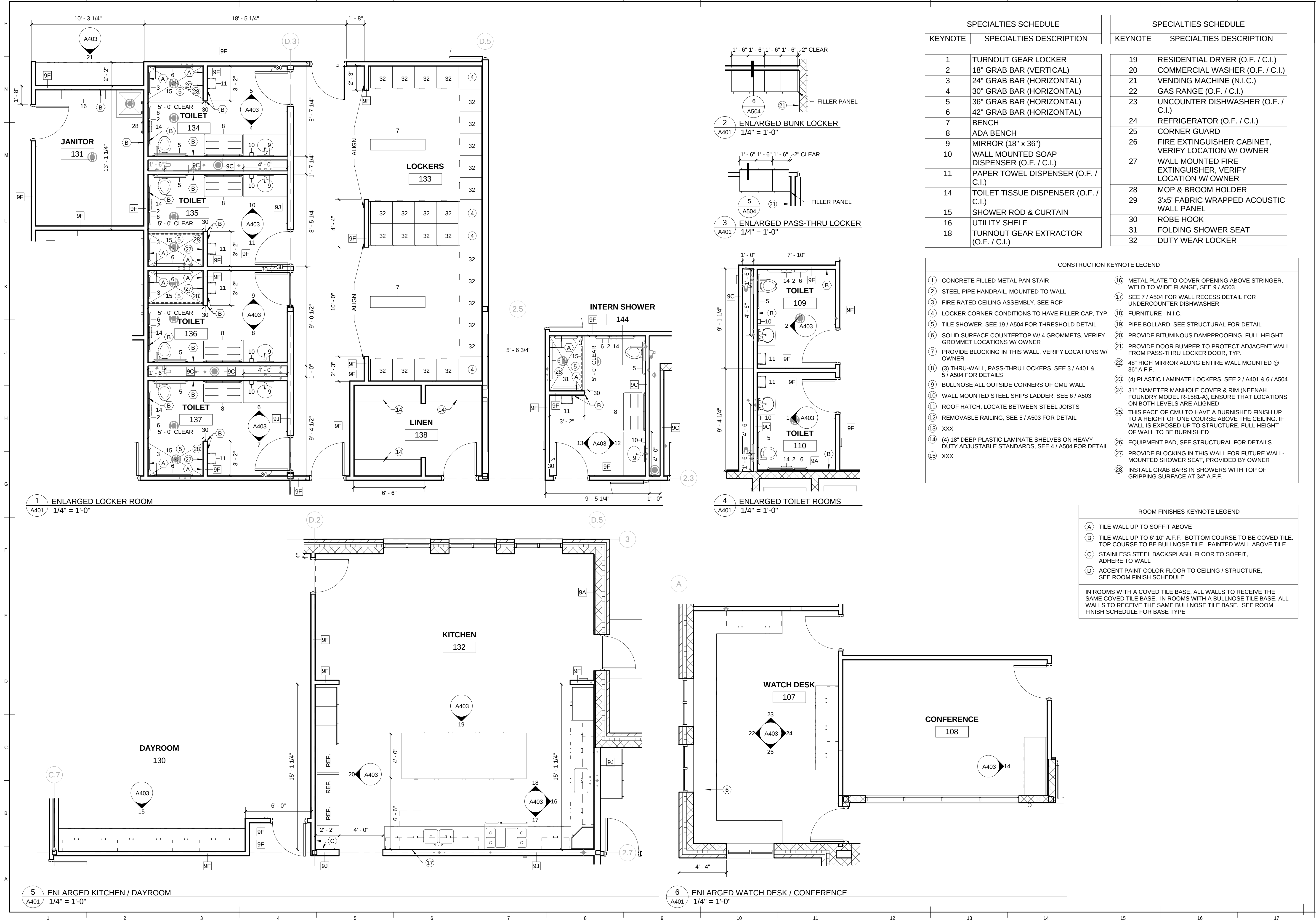
SHEET CONTENTS

A304





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ARCHITECTURAL
& DESIGN
REVIEW

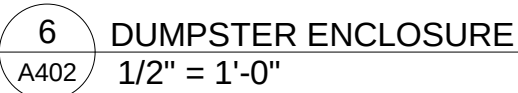
DESCRIPTION	DATE	MARK

FITCHBURG EAST
FIRE STATION
2950 SOUTH SYENE ROAD, FITCHBURG, WI

SEH FILE NO. FITCH 139706
ISSUE DATE JANUARY 23, 2018
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SHEET CONTENTS
ENLARGED
FLOOR PLANS

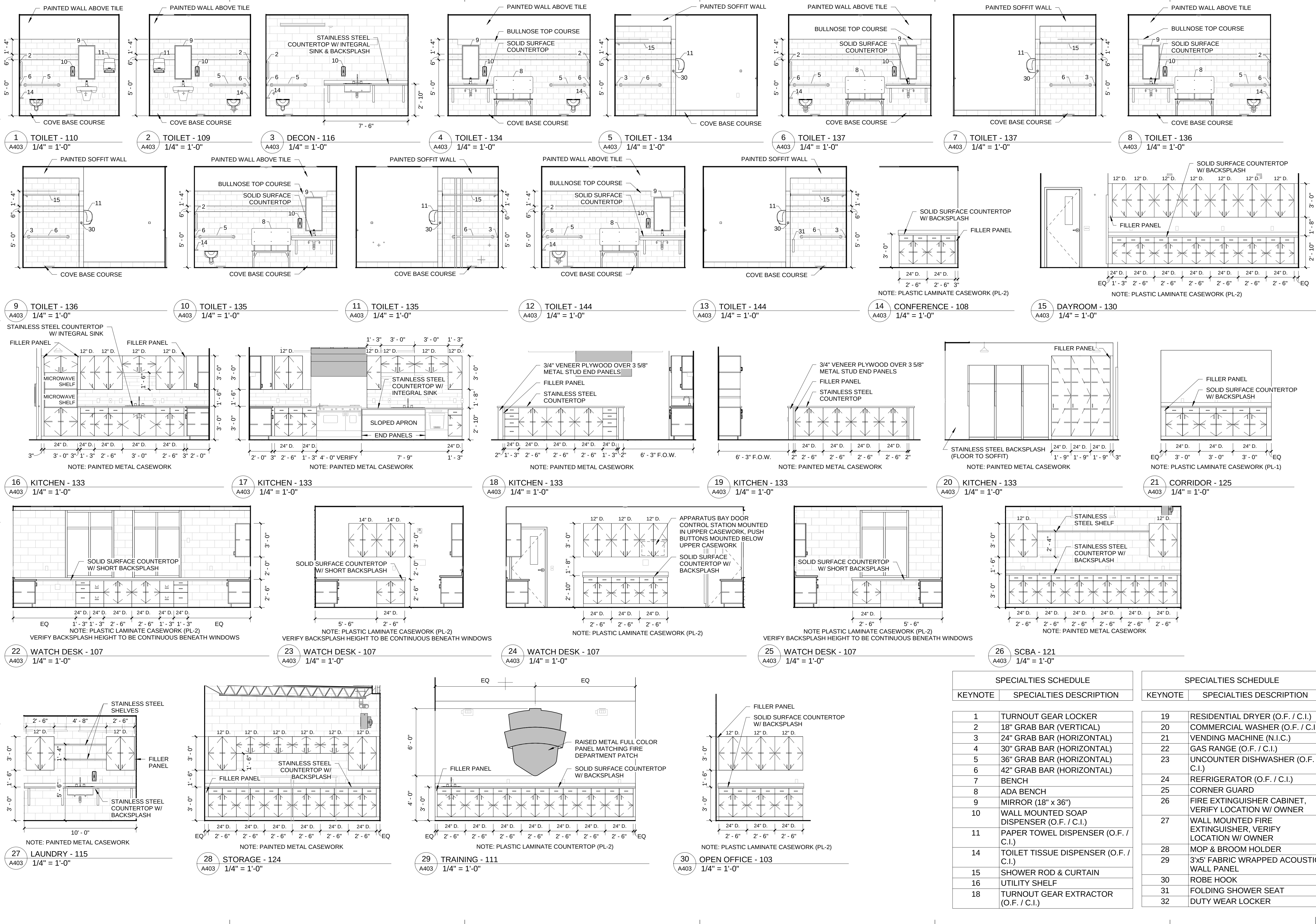
A401



SPECIALTIES SCHEDULE	
KEYNOTE	SPECIALTIES DESCRIPTION
1	TURNOUT GEAR LOCKER
2	18" GRAB BAR (VERTICAL)
3	24" GRAB BAR (HORIZONTAL)
4	30" GRAB BAR (HORIZONTAL)
5	36" GRAB BAR (HORIZONTAL)
6	42" GRAB BAR (HORIZONTAL)
7	BENCH
8	ADA BENCH
9	MIRROR (18" x 36")
10	WALL MOUNTED SOAP DISPENSER (O.F. / C.I.)
11	PAPER TOWEL DISPENSER (O.F. / C.I.)
14	TOILET TISSUE DISPENSER (O.F. / C.I.)
15	SHOWER ROD & CURTAIN
16	UTILITY SHELF
18	TURNOUT GEAR EXTRACTOR (O.F. / C.I.)

SPECIALTIES SCHEDULE	
KEYNOTE	SPECIALTIES DESCRIPTION
19	RESIDENTIAL DRYER (O.F. / C.I.)
20	COMMERCIAL WASHER (O.F. / C.I.)
21	VENDING MACHINE (N.I.C.)
22	GAS RANGE (O.F. / C.I.)
23	UNCOUNTER DISHWASHER (O.F. / C.I.)
24	REFRIGERATOR (O.F. / C.I.)
25	CORNER GUARD
26	FIRE EXTINGUISHER CABINET, VERIFY LOCATION W/ OWNER
27	WALL MOUNTED FIRE EXTINGUISHER, VERIFY LOCATION W/ OWNER
28	MOP & BROOM HOLDER
29	3'x5' FABRIC WRAPPED ACOUSTIC WALL PANEL
30	ROBE HOOK
31	FOLDING SHOWER SEAT
32	DUTY WEAR LOCKER

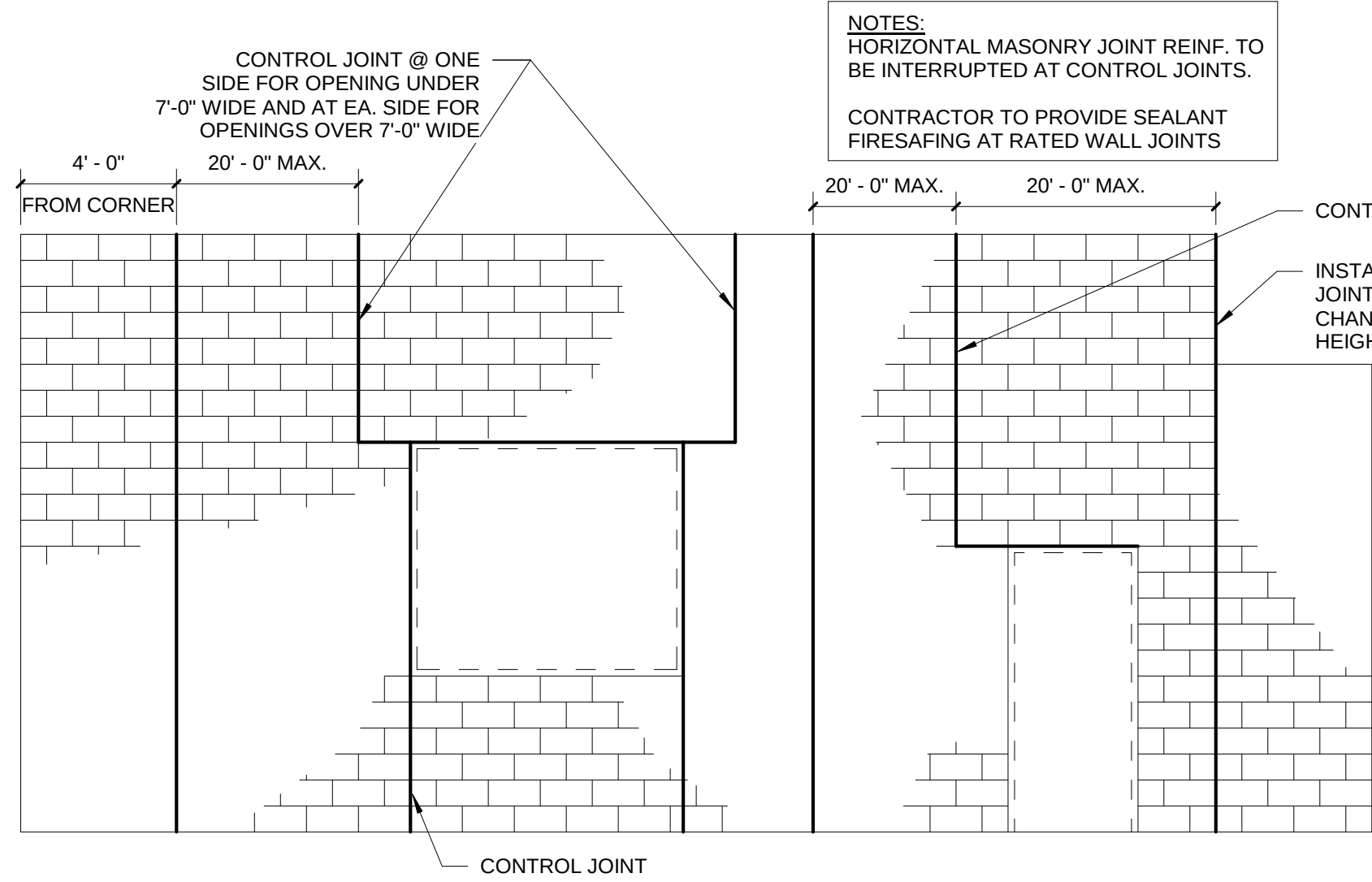
CONSTRUCTION KEYNOTE LEGEND	
①	CONCRETE FILLED METAL PAN STAIR
②	STEEL PIPE HANDRAIL, MOUNTED TO WALL
③	FIRE RATED CEILING ASSEMBLY, SEE RCP
④	LOCKER CORNER CONDITIONS TO HAVE FILLER CAP, TYP.
⑤	TILE SHOWER, SEE 19 / A504 FOR THRESHOLD DETAIL
⑥	SOLID SURFACE COUNTERTOP W/ 4 GROMMETS, VERIFY GROMMET LOCATIONS W/ OWNER
⑦	PROVIDE BLOCKING IN THIS WALL, VERIFY LOCATIONS W/ OWNER
⑧	(3) THRU-WALL, PASS-THRU LOCKERS, SEE 3 / A401 & 5 / A504 FOR DETAILS
⑨	BULLNOSE ALL OUTSIDE CORNERS OF CMU WALL
⑩	WALL MOUNTED STEEL SHIPS LADDER, SEE 6 / A503
⑪	ROOF HATCH, LOCATE BETWEEN STEEL JOISTS
⑫	REMOVABLE RAILING, SEE 5 / A503 FOR DETAIL
⑬	XXX
⑭	(4) 18" DEEP PLASTIC LAMINATE SHELVES ON HEAVY DUTY ADJUSTABLE STANDARDS, SEE 4 / A504 FOR DETAIL
⑮	XXX
⑯	METAL PLATE TO COVER OPENING ABOVE STRINGER, WELD TO WIDE FLANGE, SEE 9 / A503
⑰	SEE 7 / A504 FOR WALL RECESS DETAIL FOR UNDERCOUNTER DISHWASHER
⑱	FURNITURE - N.I.C.
⑲	PIPE BOLLARD, SEE STRUCTURAL FOR DETAIL
⑳	PROVIDE BITUMINOUS DAMPPROOFING, FULL HEIGHT
㉑	PROVIDE DOOR BUMPER TO PROTECT ADJACENT WALL FROM PASS-THRU LOCKER DOOR, TYP.
㉒	48" HIGH MIRROR ABOVE LOCKER WALL MOUNTED @ 36" A.F.F.
㉓	(1) PLASTIC LAMINATE LOCKERS, SEE 2 / A401 & 6 / A504
㉔	31" DIAMETER MANHOLE COVER & RIM (NEENAH FOUNDRY MODEL R-1581-A), ENSURE THAT LOCATIONS ON BOTH LEVELS ARE ALIGNED
㉕	THIS FACE OF CMU TO HAVE A BURNISHED FINISH UP TO A HEIGHT OF ONE COURSE ABOVE THE CEILING. IF WALL IS EXPOSED UP TO STRUCTURE, FULL HEIGHT OF WALL TO BE BURNISHED
㉖	EQUIPMENT PAD, SEE STRUCTURAL FOR DETAILS
㉗	PROVIDE BLOCKING IN THIS WALL FOR FUTURE WALL-MOUNTED SHOWER SEAT, PROVIDED BY OWNER
㉘	INSTALL GRAB BARS IN SHOWERS WITH TOP OF GRIPPING SURFACE AT 34" A.F.F.



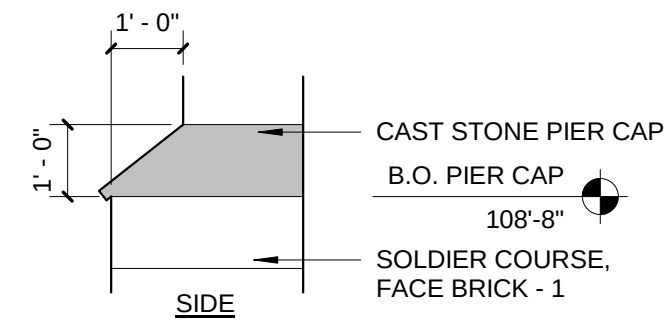
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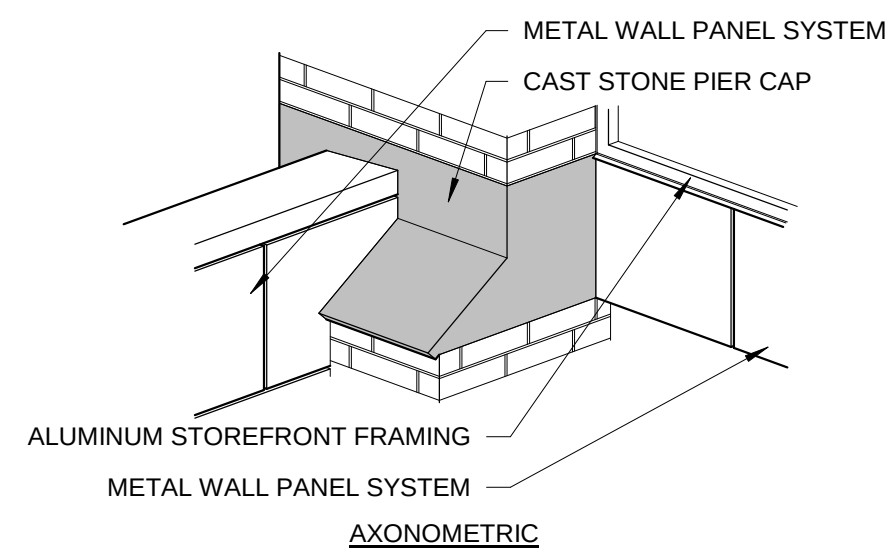
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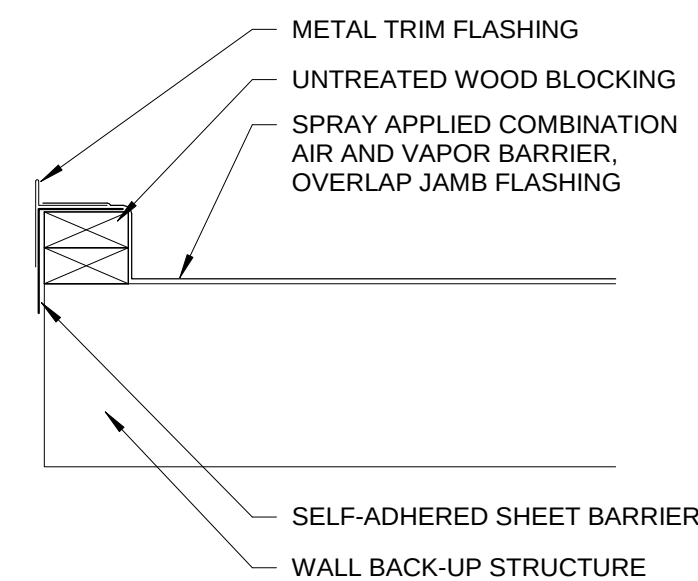
1 INTERIOR CONTROL JOINTS
1/4" = 1'-0"



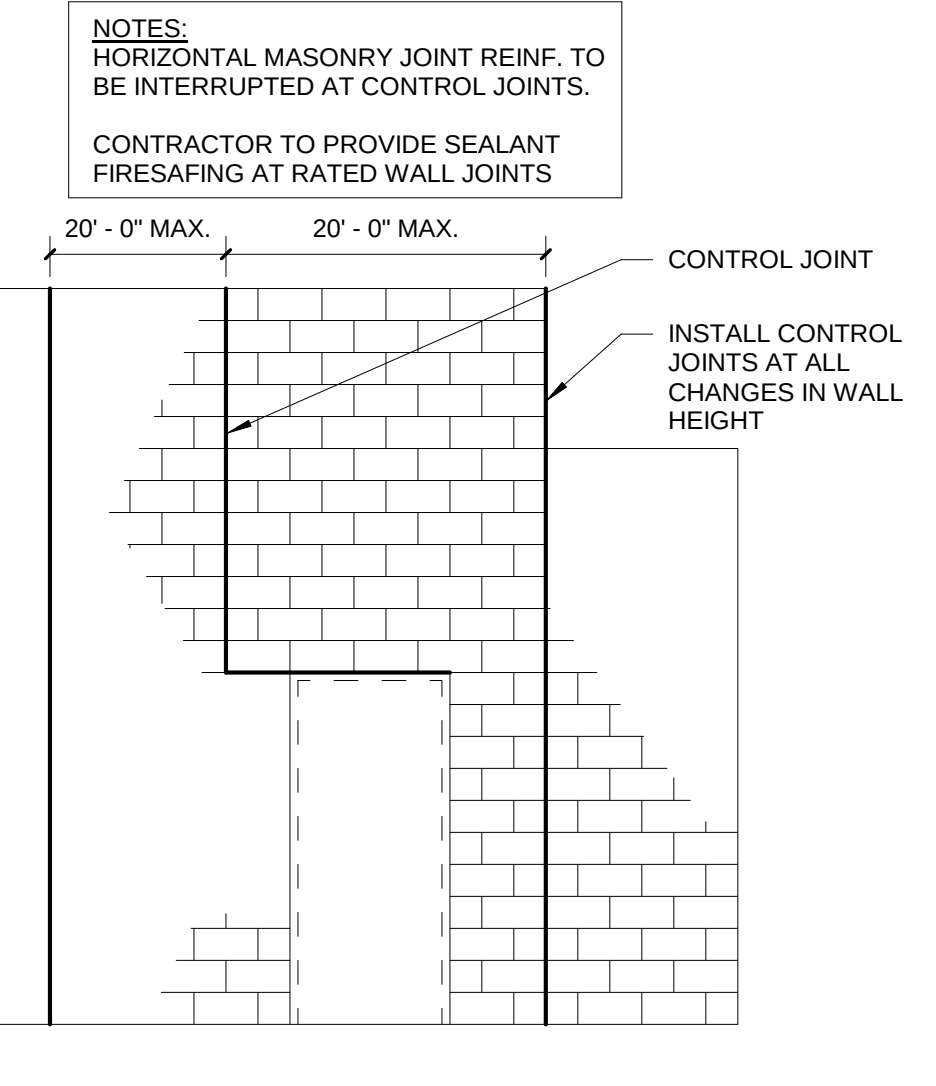
5 CAST STONE PIER CAP - OFFICE
3/8" = 1'-0"



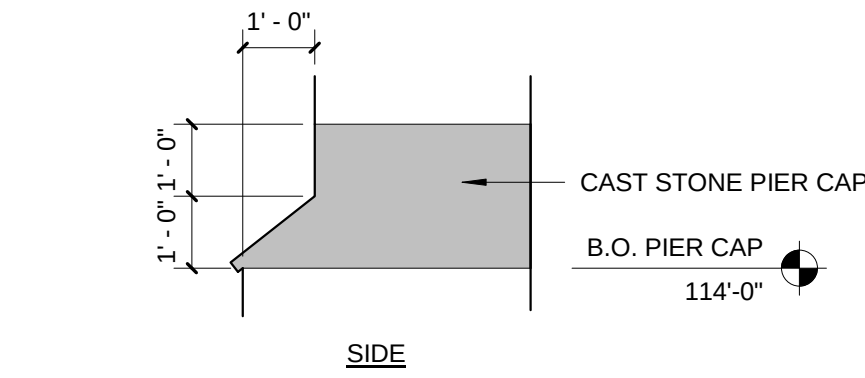
8 CAST STONE PIER CAP - METAL PANEL
3/8" = 1'-0"



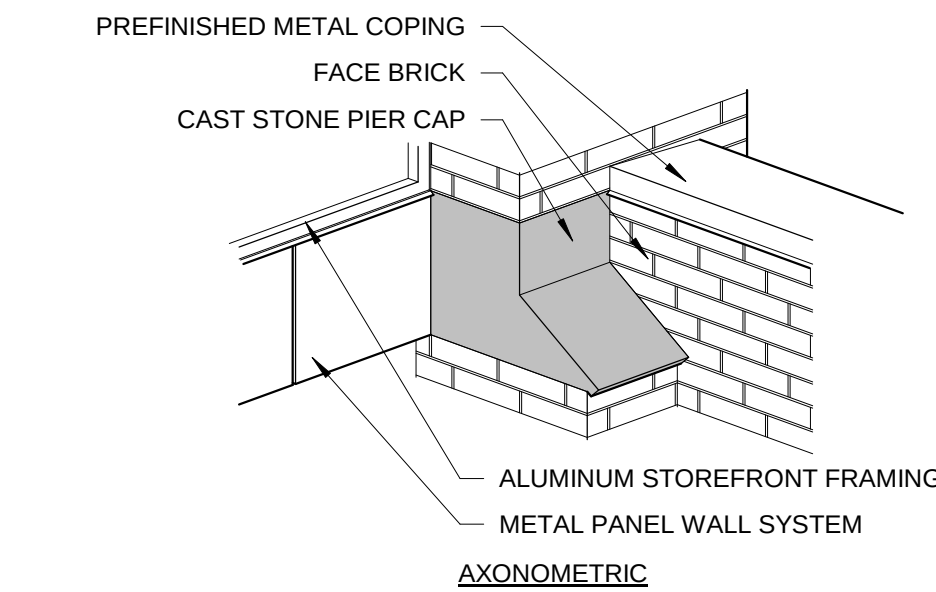
13 FLASHING DETAIL
1 1/2" = 1'-0"



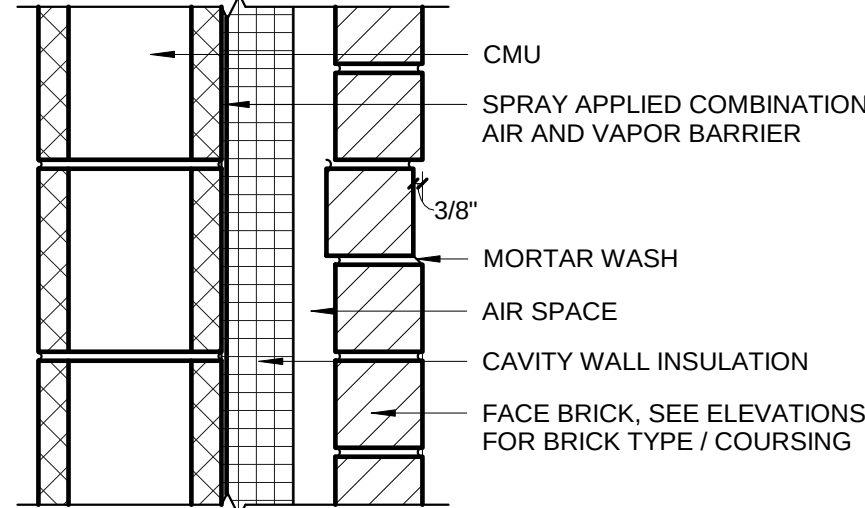
2 MASONRY CONTROL JOINTS
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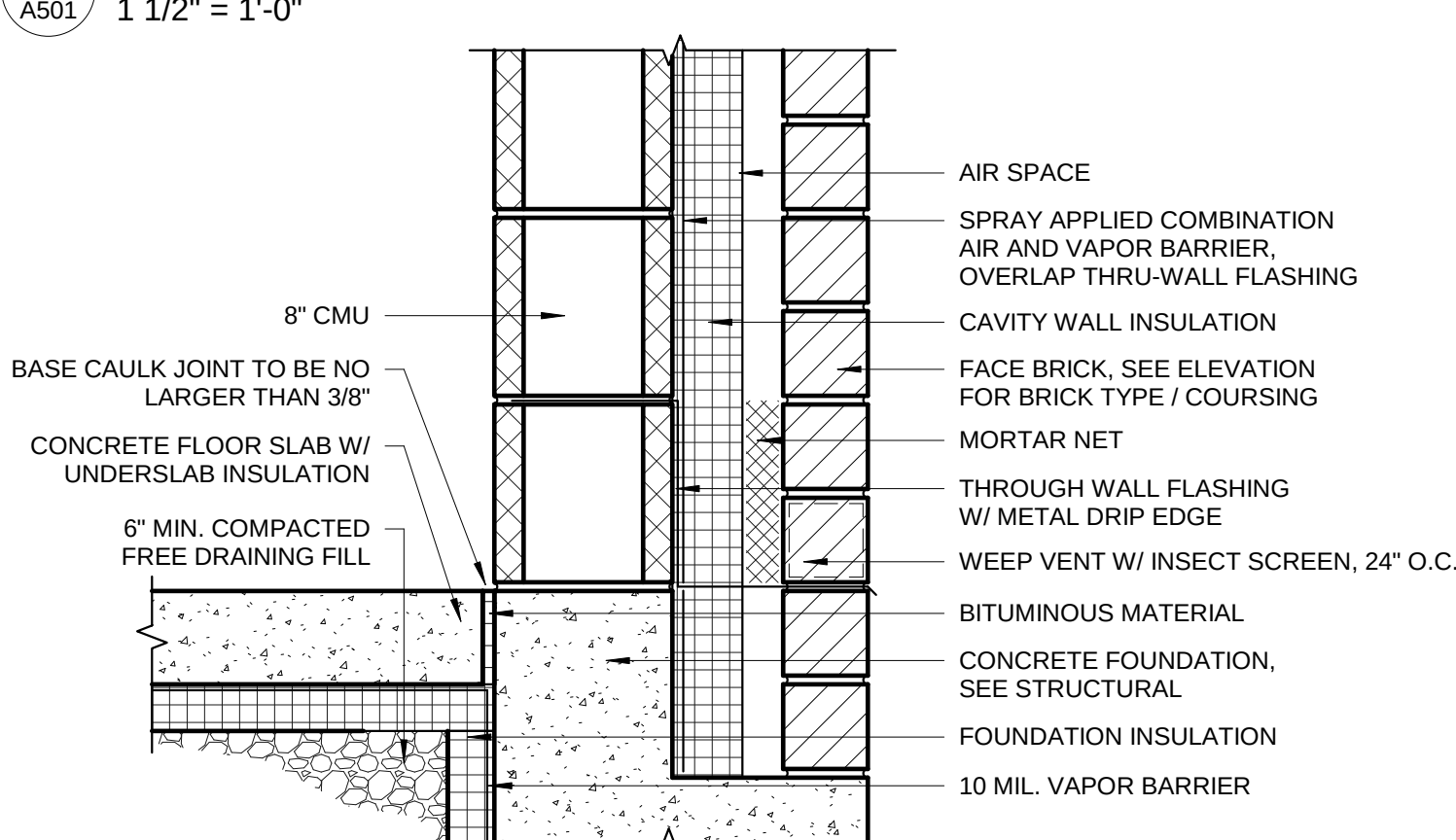
6 CAST STONE PIER CAP - APPARATUS
3/8" = 1'-0"



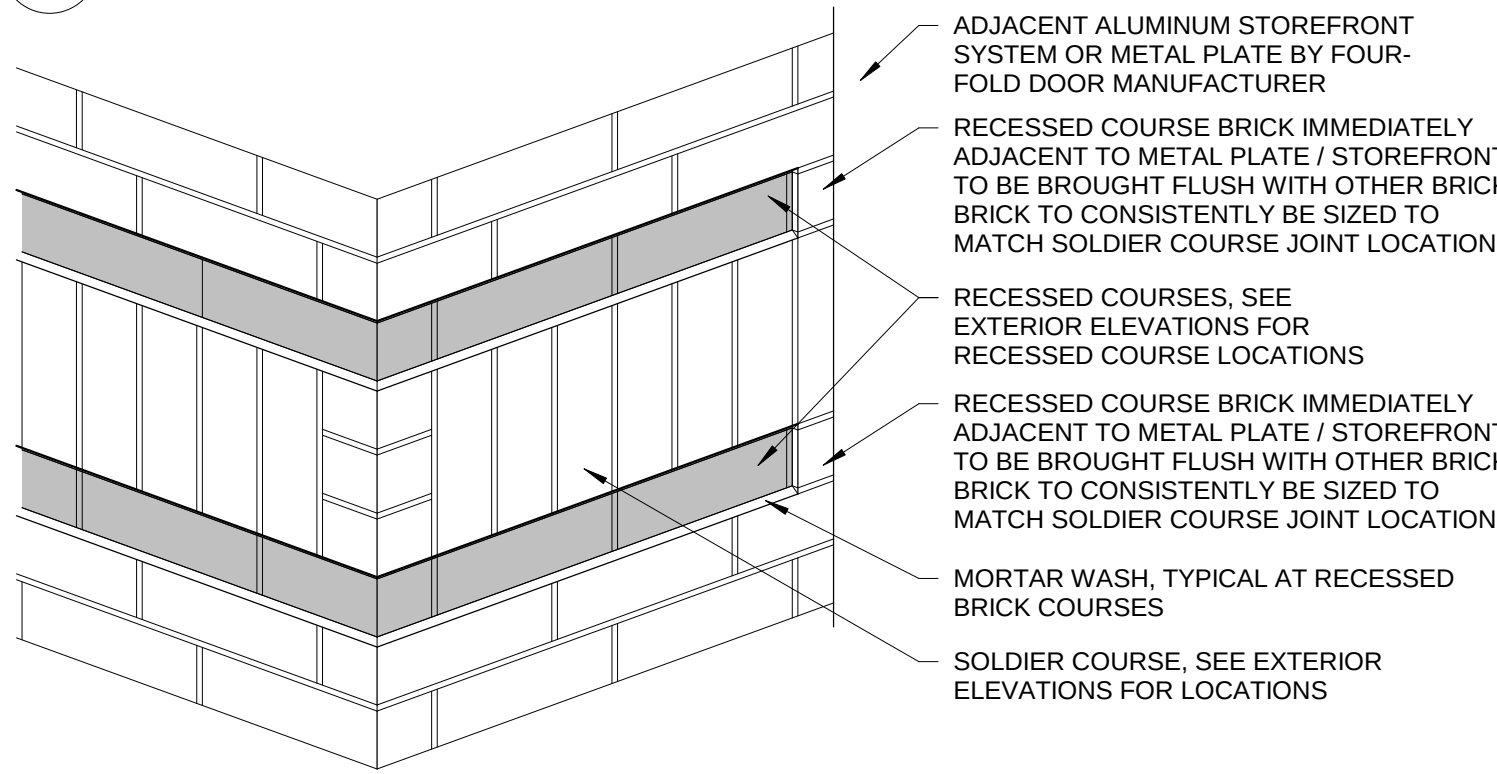
9 CAST STONE PIER CAP - FACE BRICK
3/8" = 1'-0"



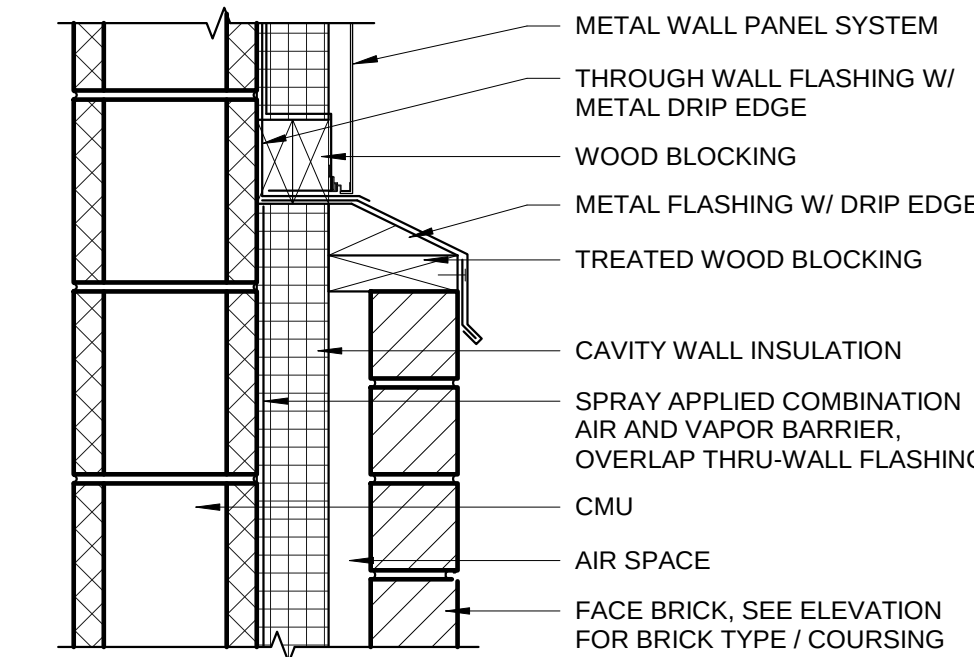
14 BRICK COURSE DETAIL
1 1/2" = 1'-0"



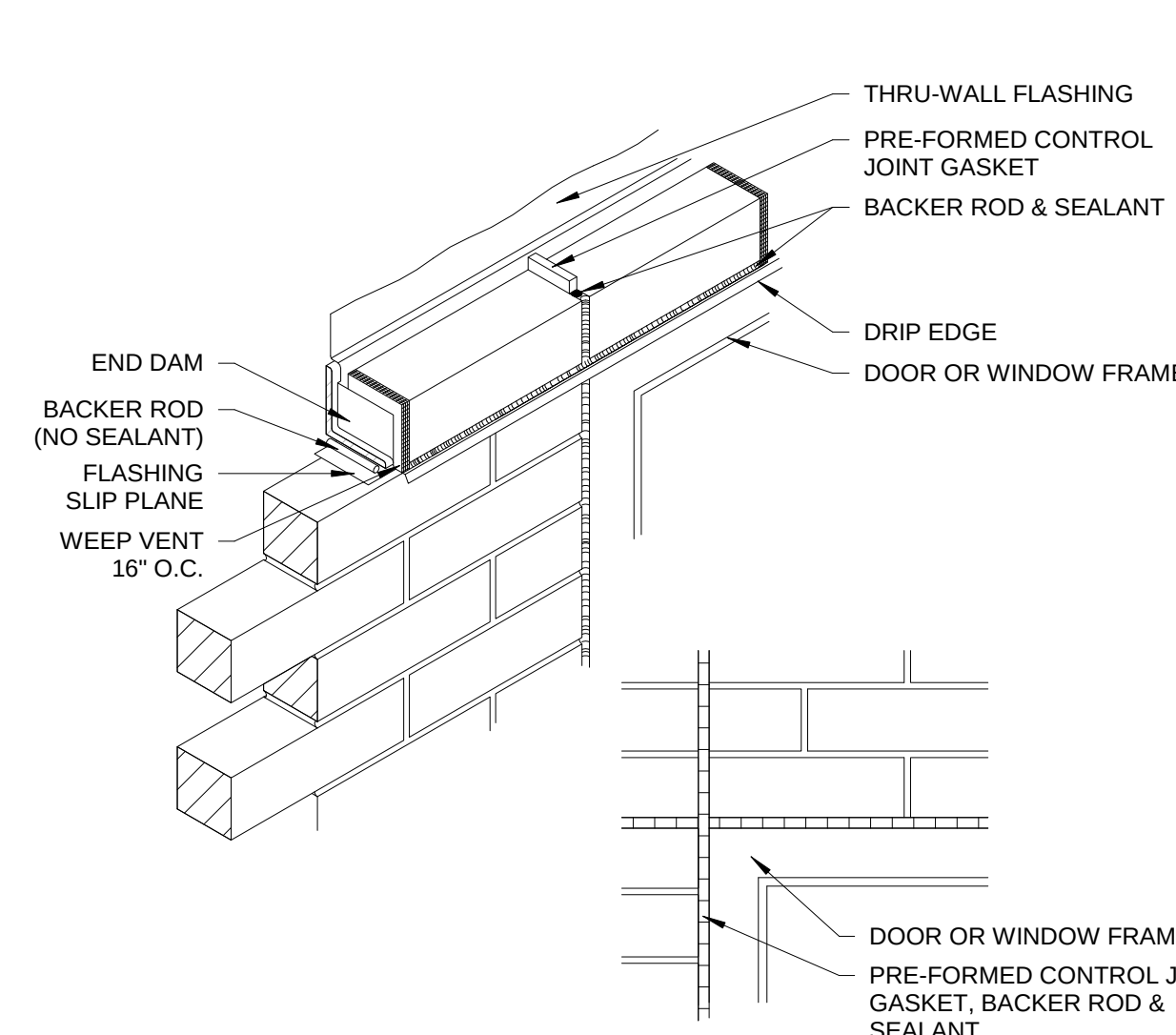
7 BASE OF WALL DETAIL
1 1/2" = 1'-0"



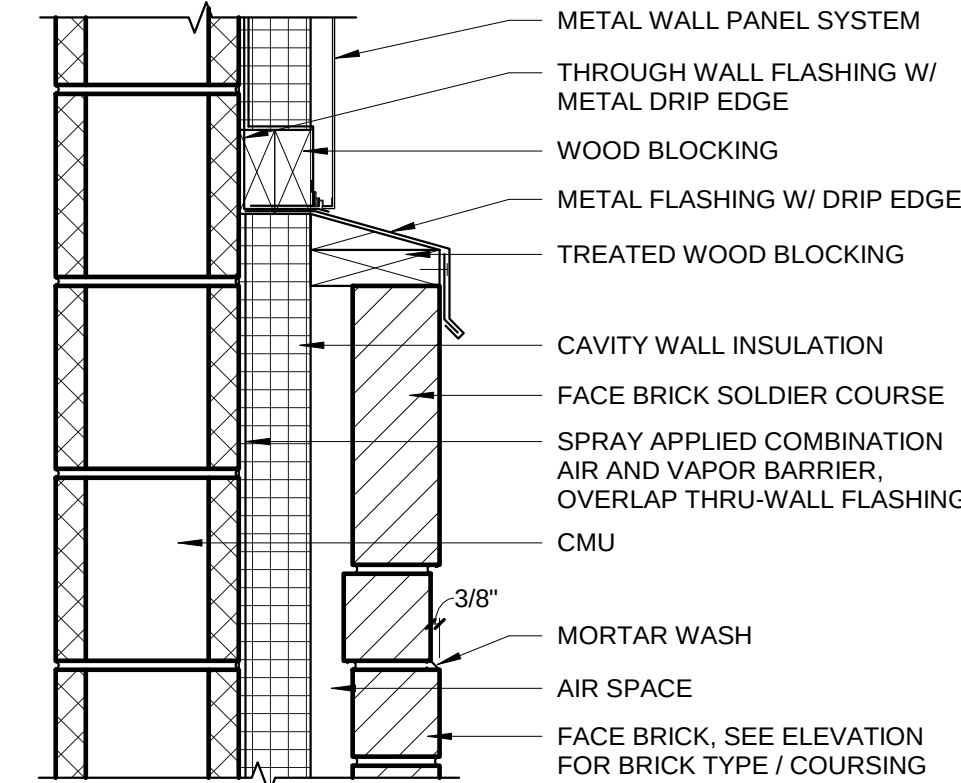
10 TYPICAL BRICK DETAIL AT PIERS
1" = 1'-0"



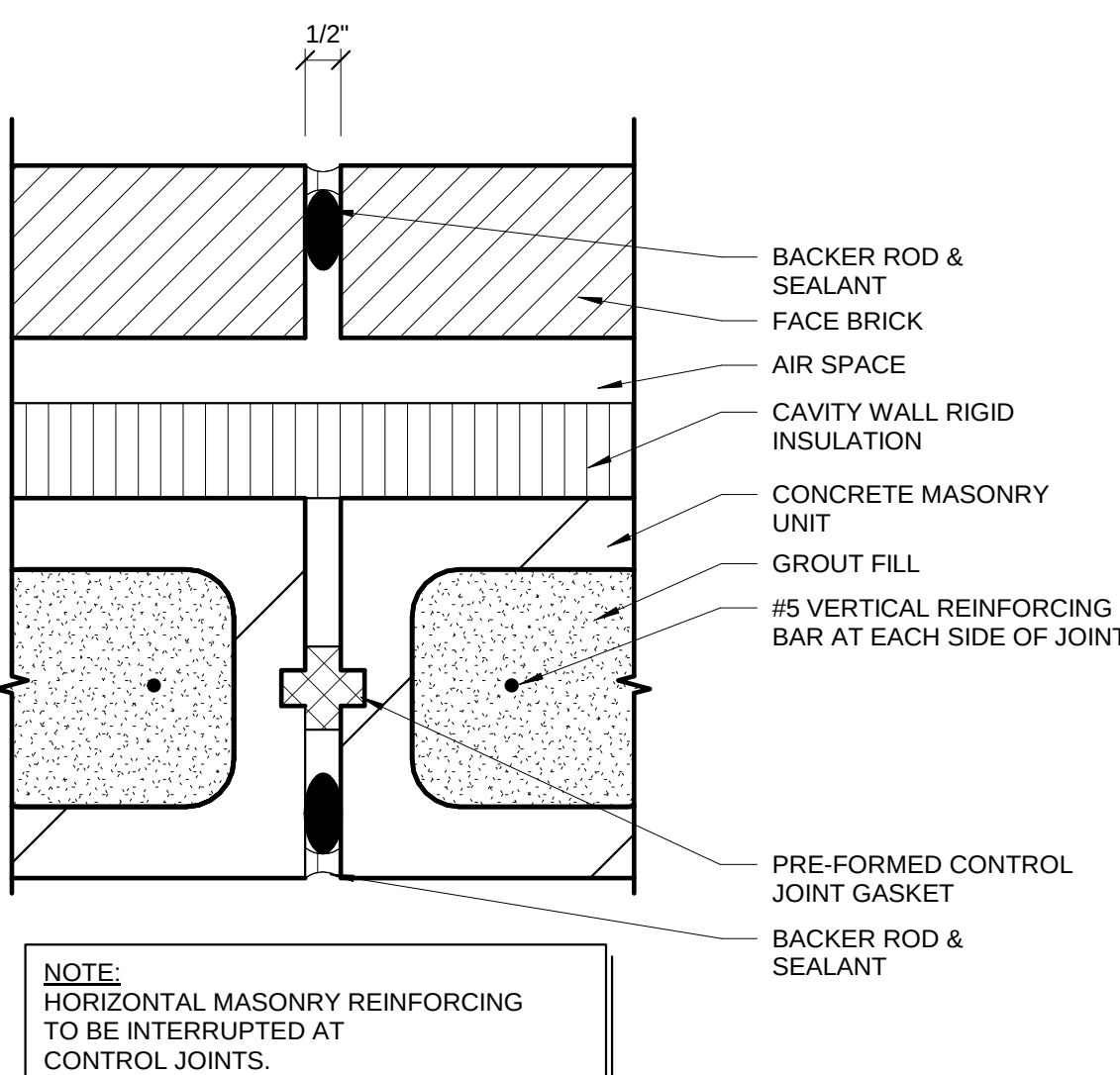
15 FACADE TRANSITION DETAIL
1 1/2" = 1'-0"



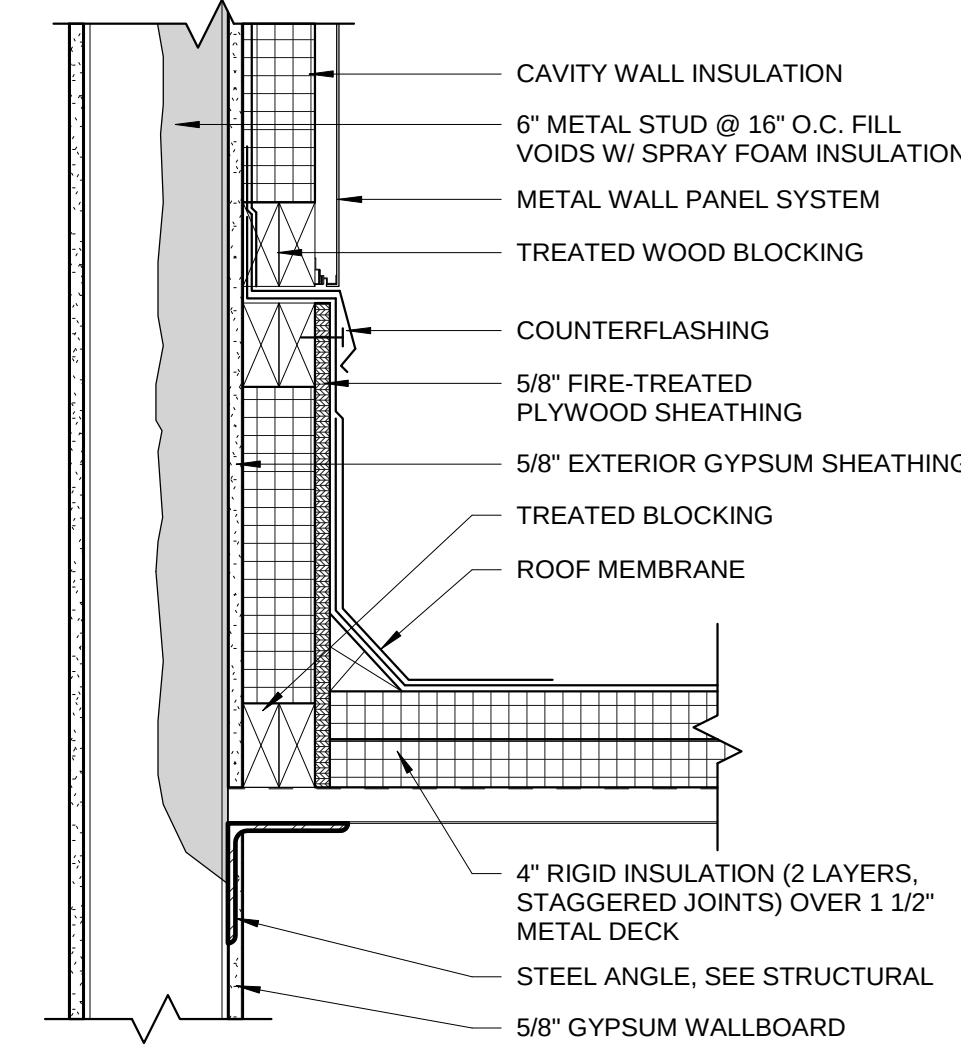
16 SOLDIER COURSE DETAIL
1 1/2" = 1'-0"



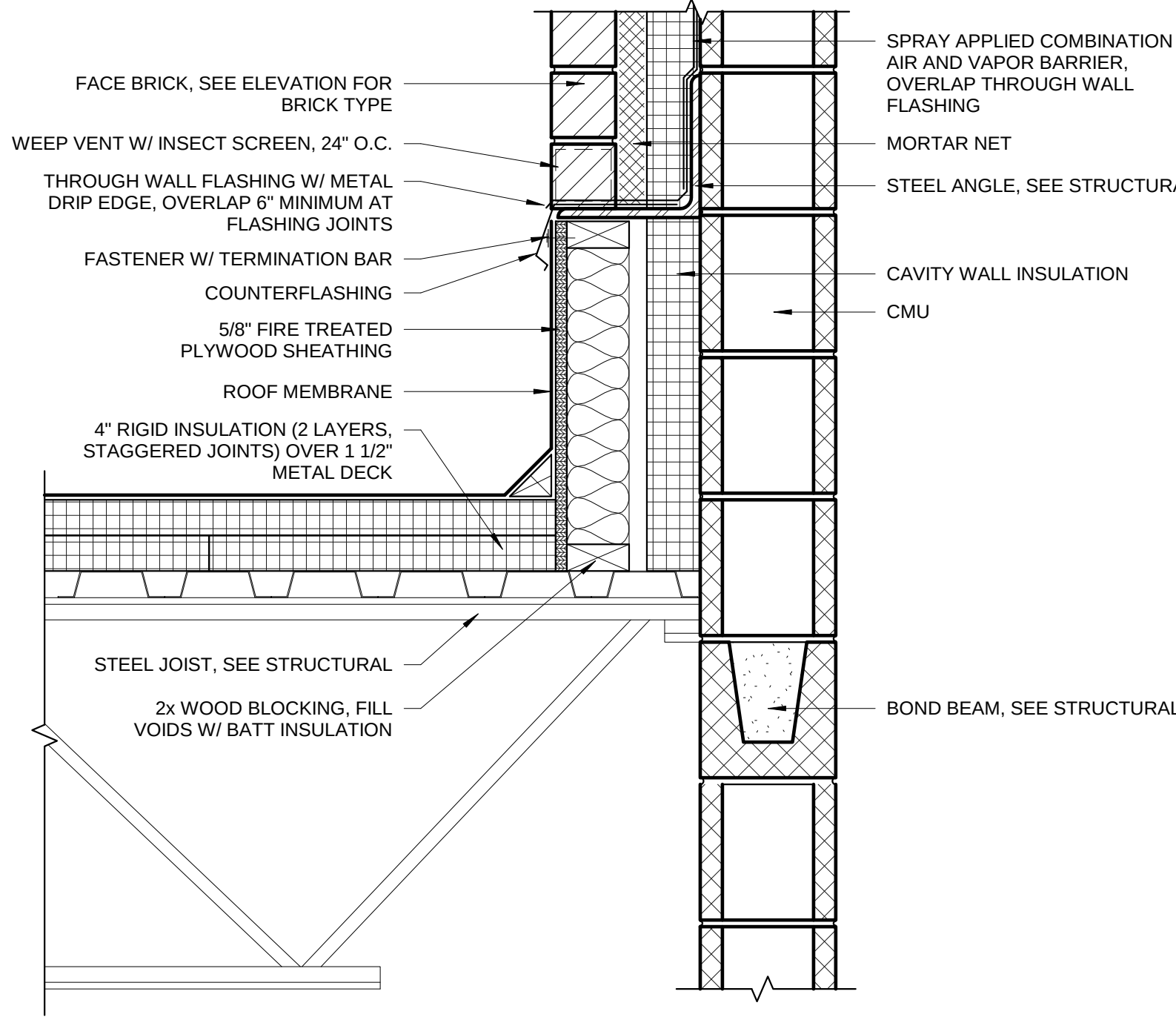
17 ROOF TO WALL DETAIL
1 1/2" = 1'-0"



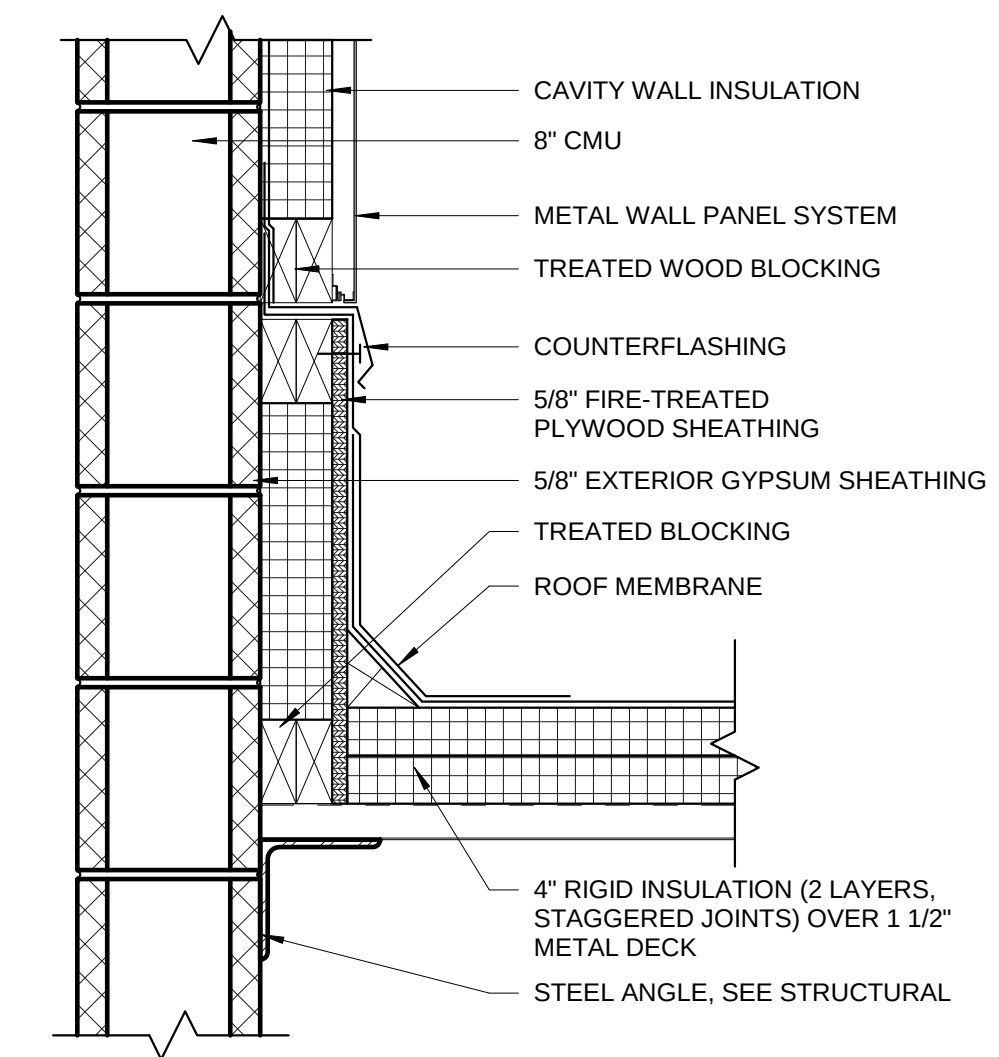
11 ROOF TO WALL DETAIL
1 1/2" = 1'-0"



12 ROOF TO WALL DETAIL
1 1/2" = 1'-0"

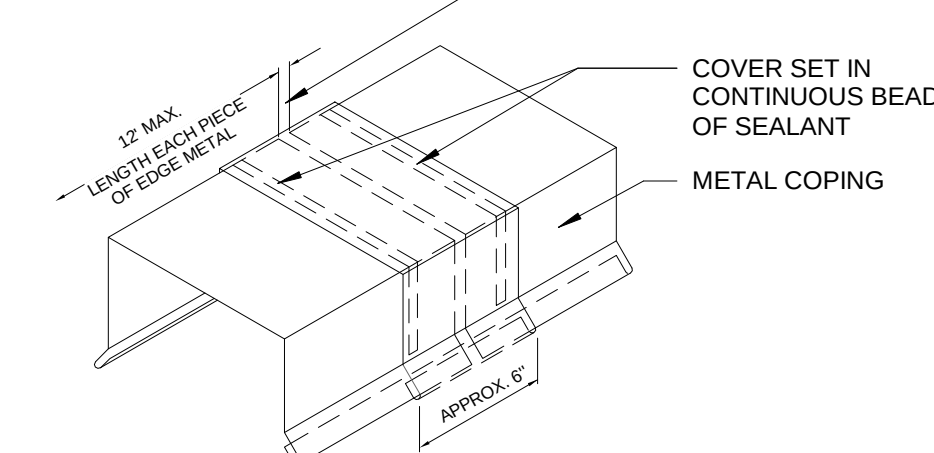


13 FLASHING DETAIL
1 1/2" = 1'-0"



4 DATE STONE DETAIL
1" = 1'-0"

3 COPING LAP DETAIL
1 1/2" = 1'-0"



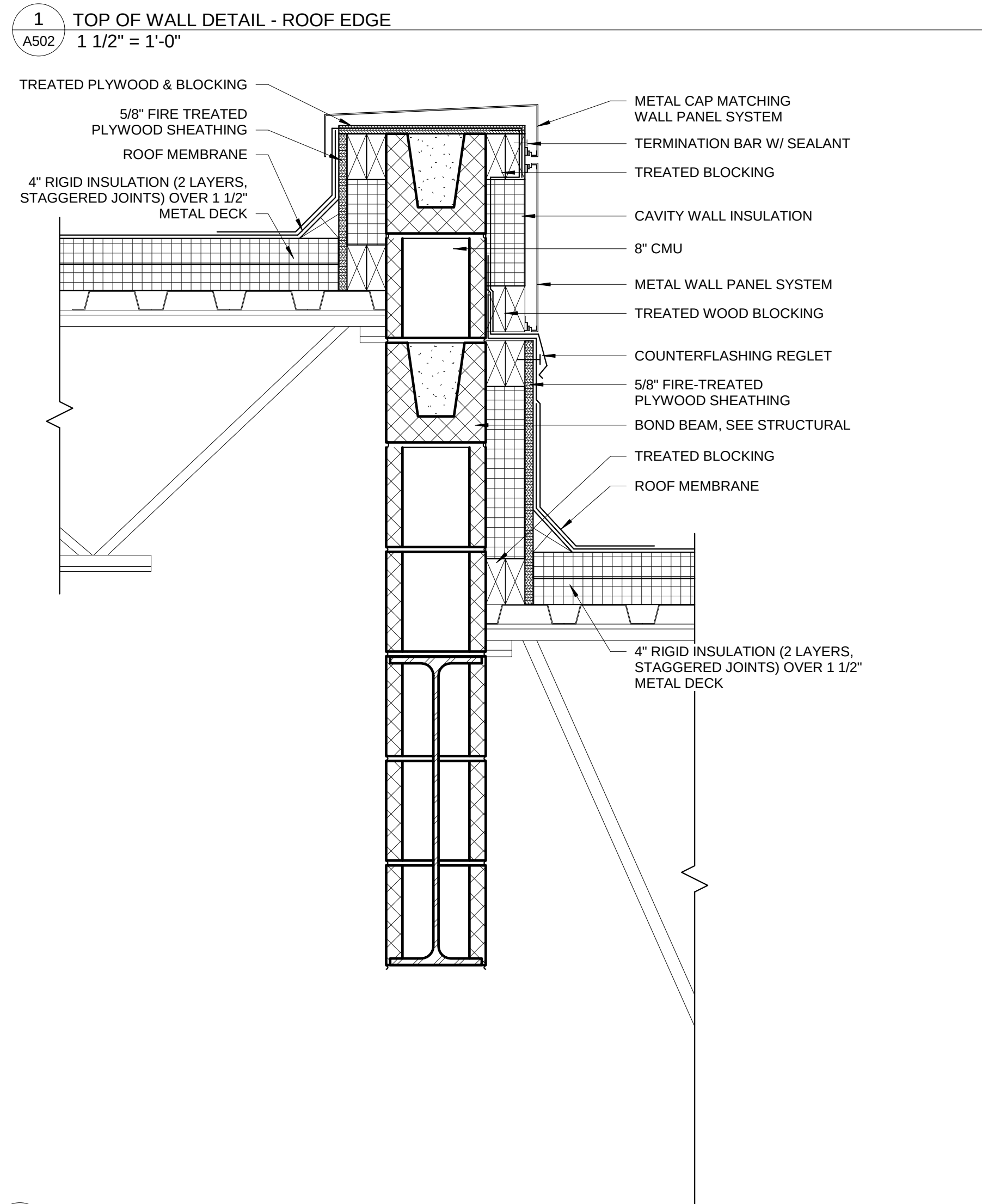
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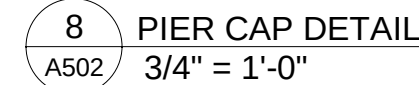
DETAILS

FITCHBURG EAST
FIRE STATION

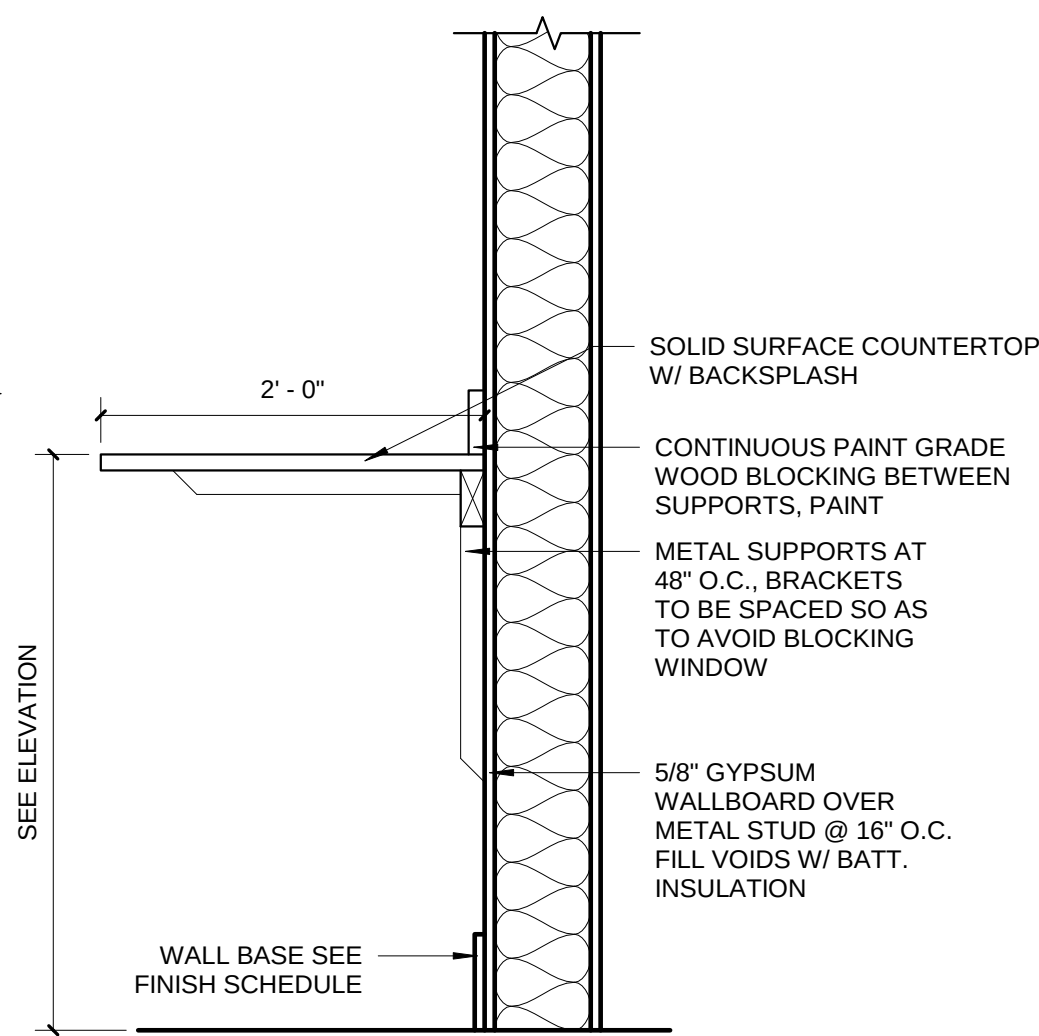
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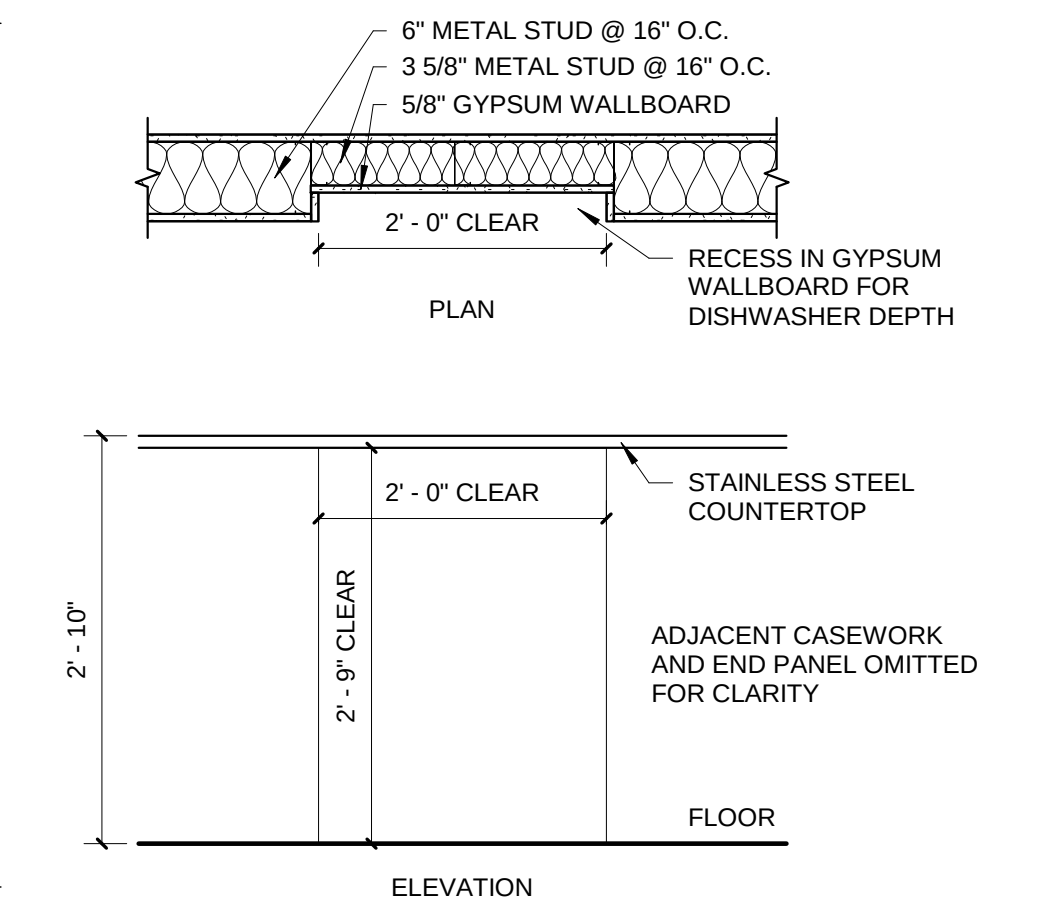




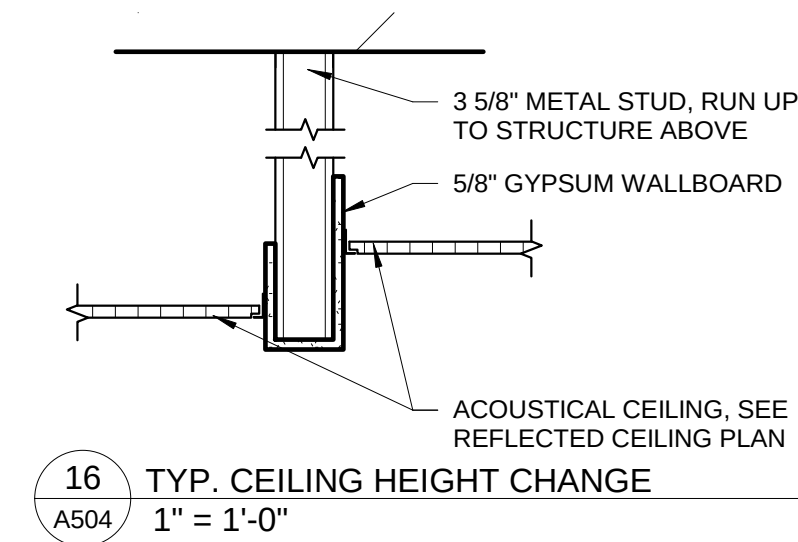
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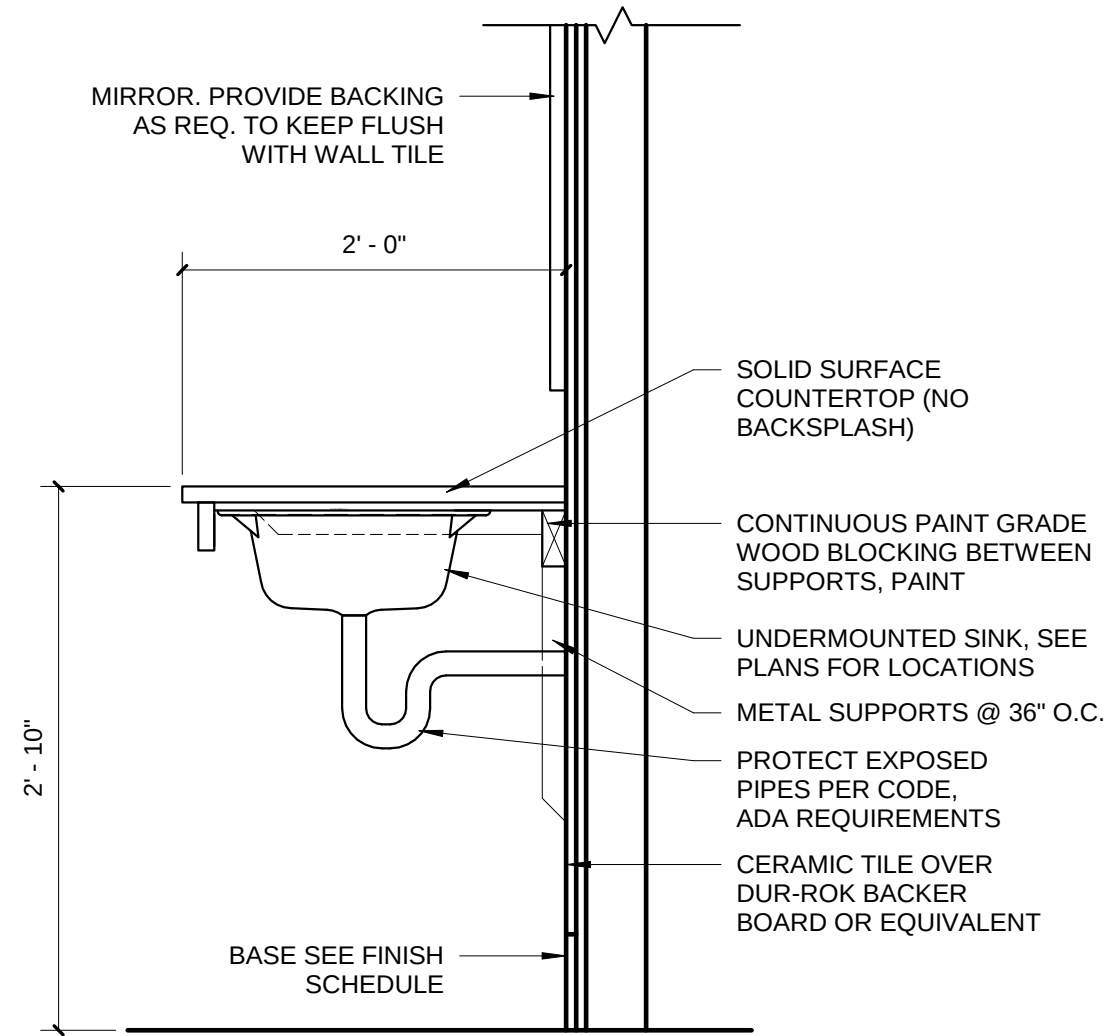
1 COUNTERTOP SECTION
1" = 1'-0"



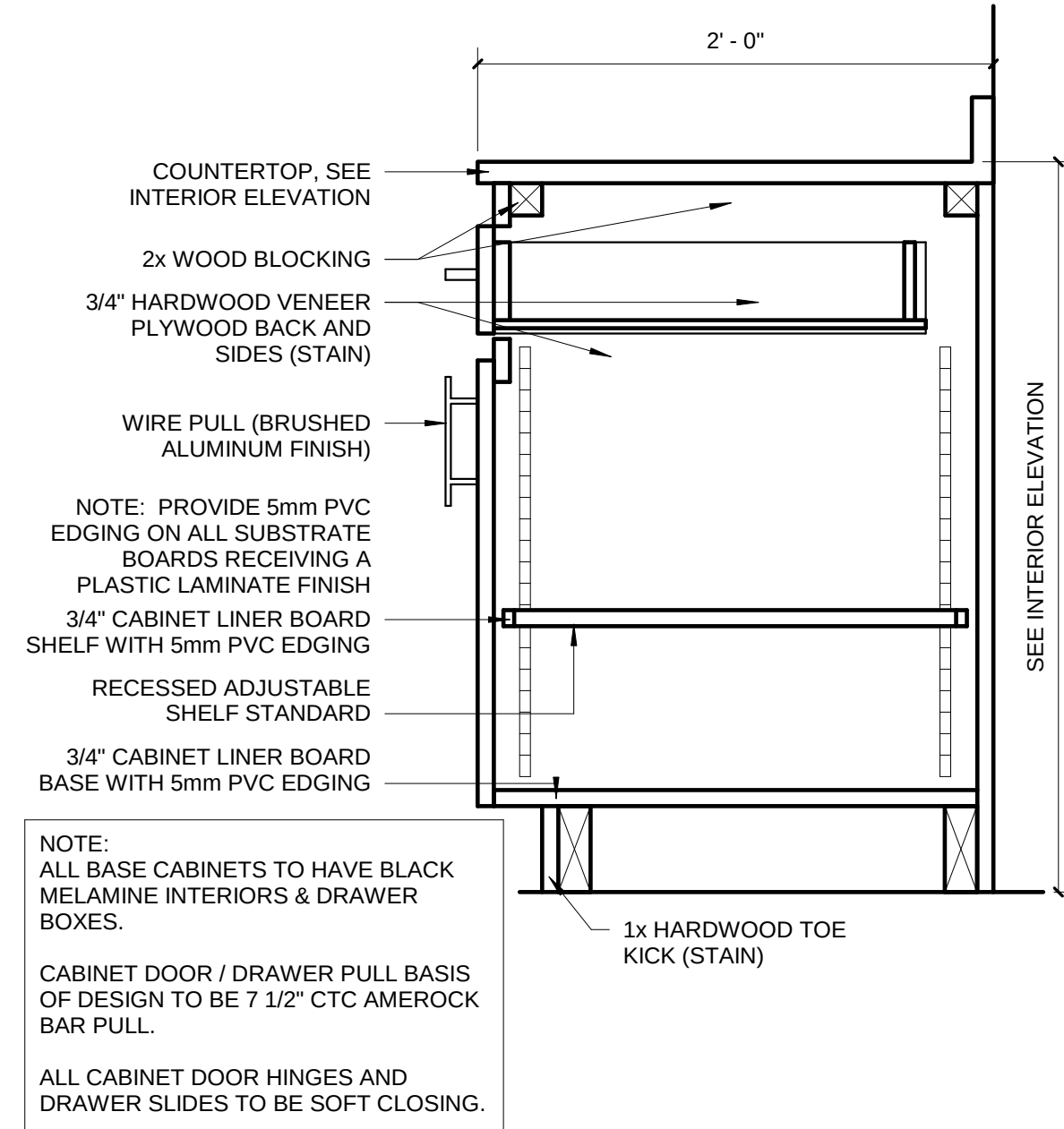
7 DISHWASHER WALL RECESS
3/4" = 1'-0"



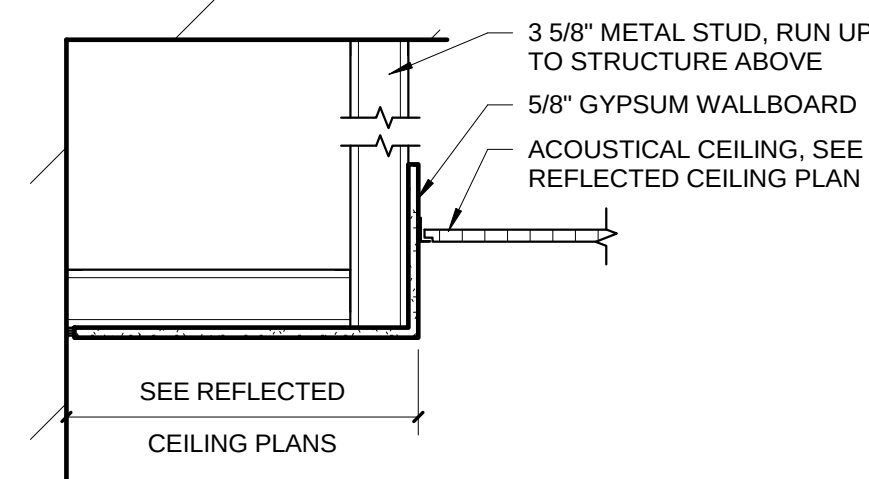
16 TYP. CEILING HEIGHT CHANGE
1" = 1'-0"



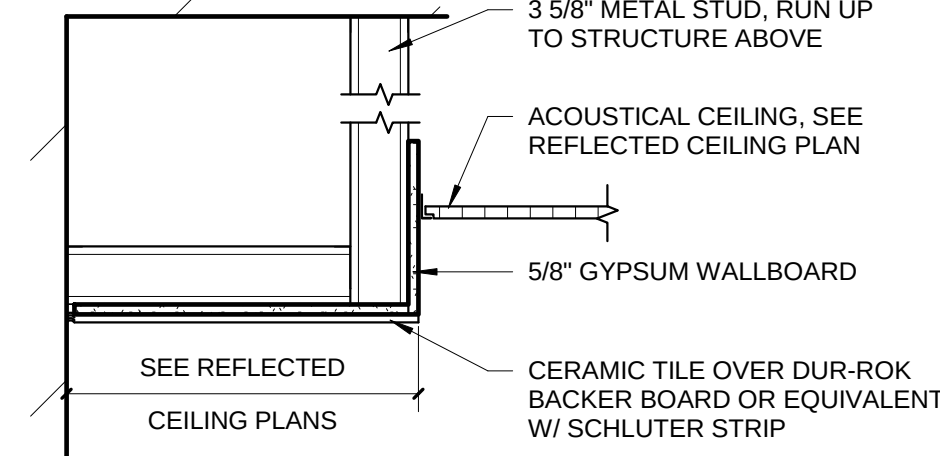
2 COUNTERTOP SECTION
1" = 1'-0"



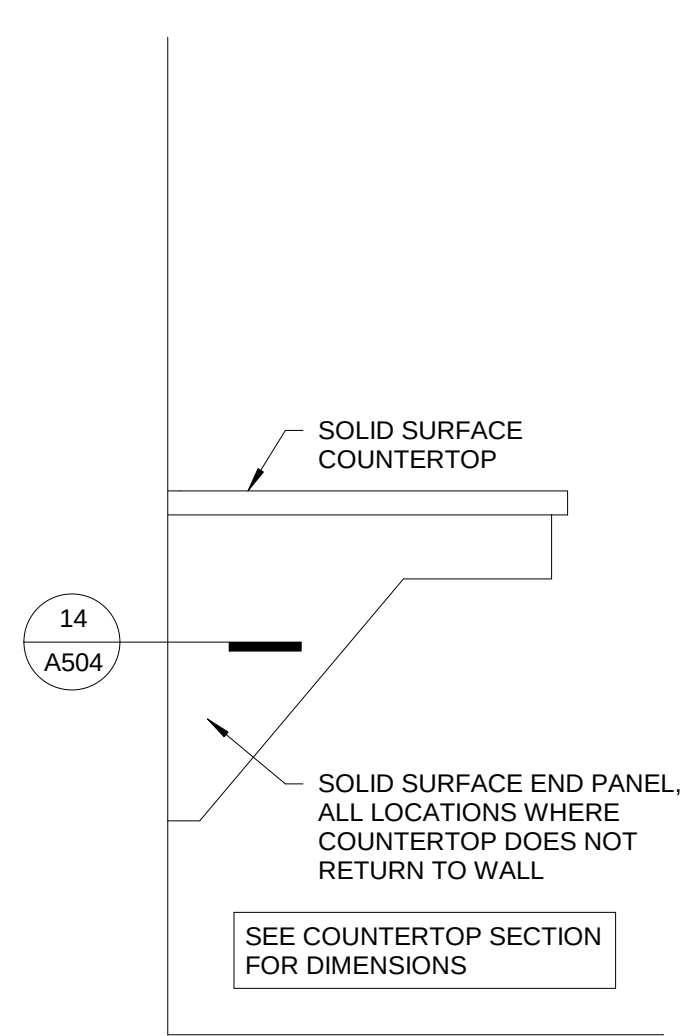
8 PLASTIC LAMINATE CABINETRY SECTION
1 1/2" = 1'-0"



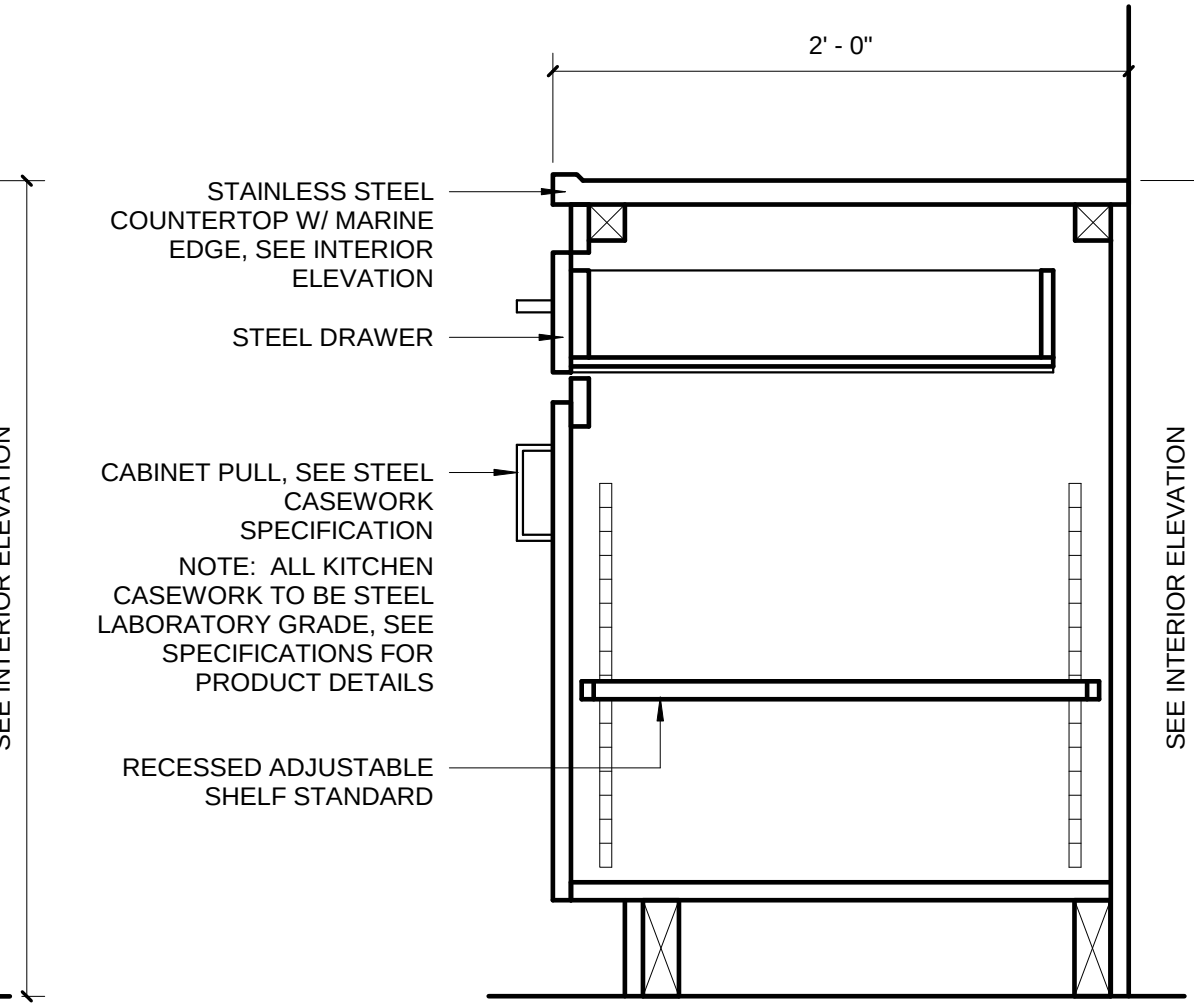
17 TYP. SOFFIT DETAIL
1" = 1'-0"



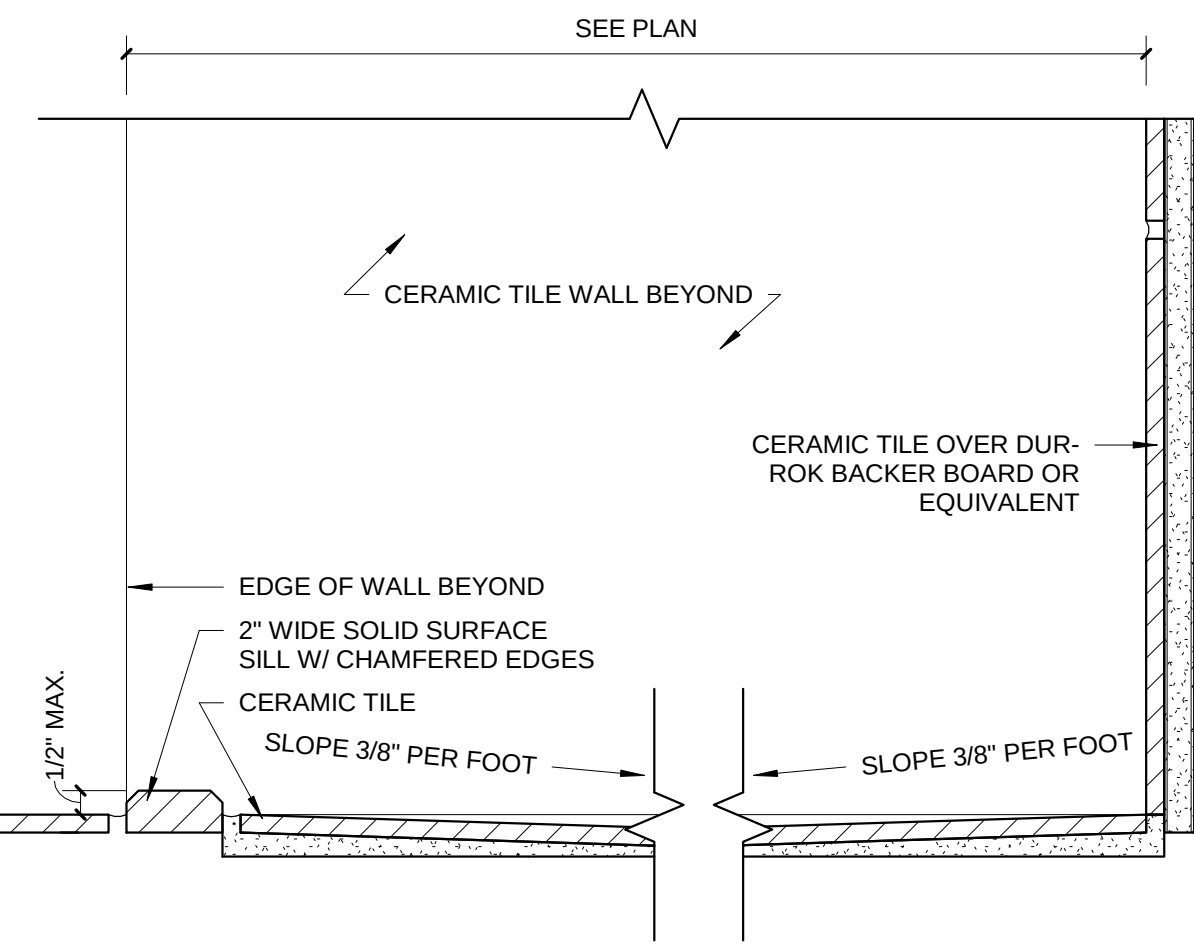
18 TYP. TILED SHOWER SOFFIT
1" = 1'-0"



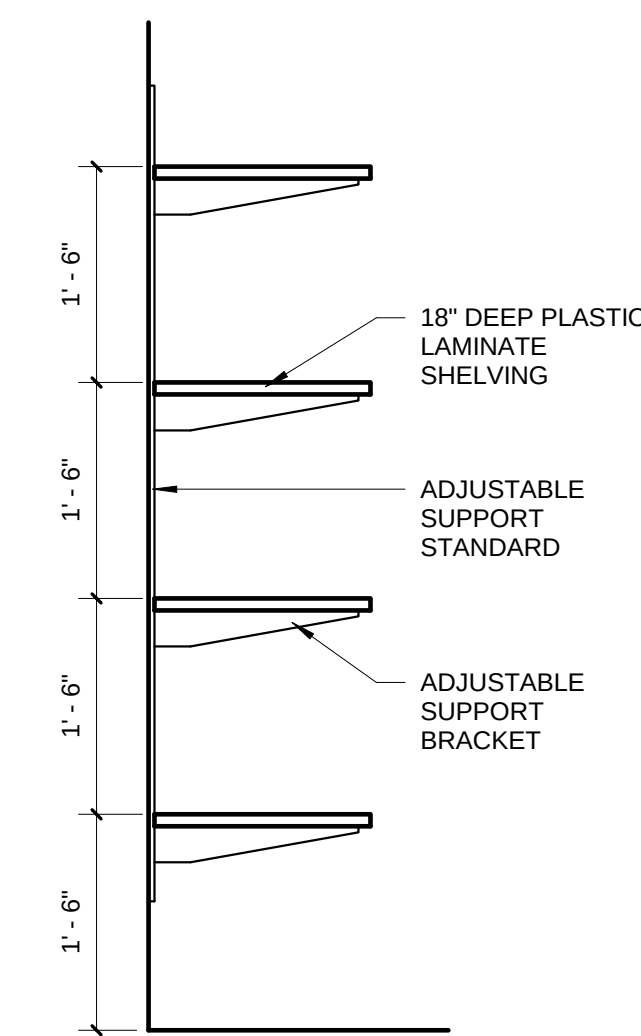
3 VANITY END PANEL
1" = 1'-0"



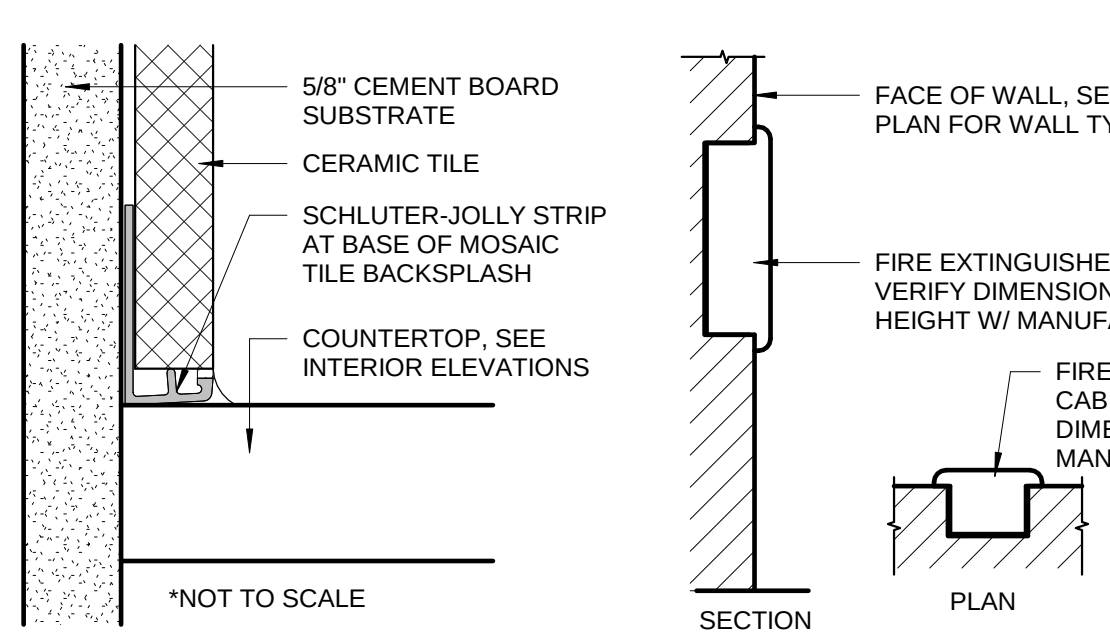
9 PAINTED METAL CABINETRY SECTION
1 1/2" = 1'-0"



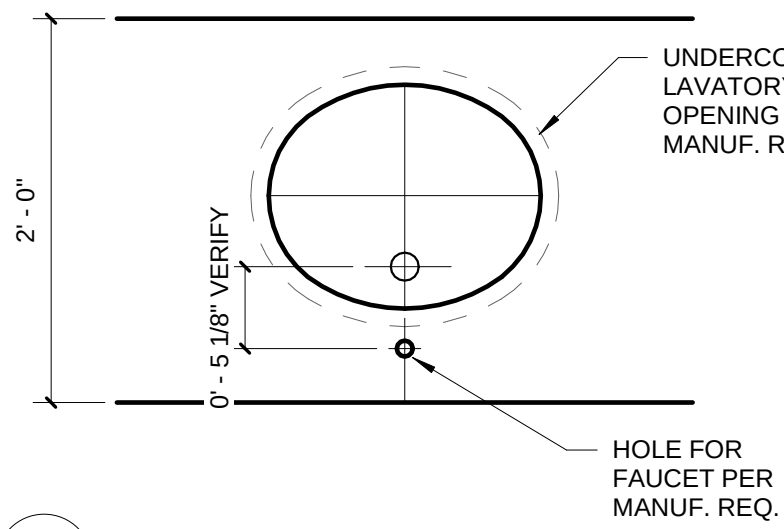
19 SHOWER THRESHOLD DETAIL
3" = 1'-0"



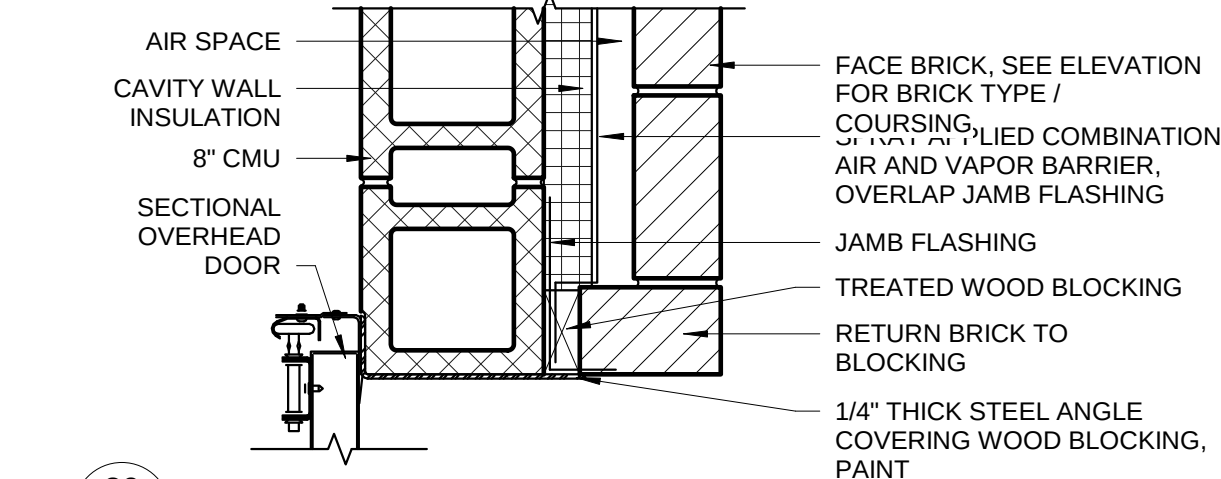
4 LINEN SHELVING DETAIL
3/4" = 1'-0"



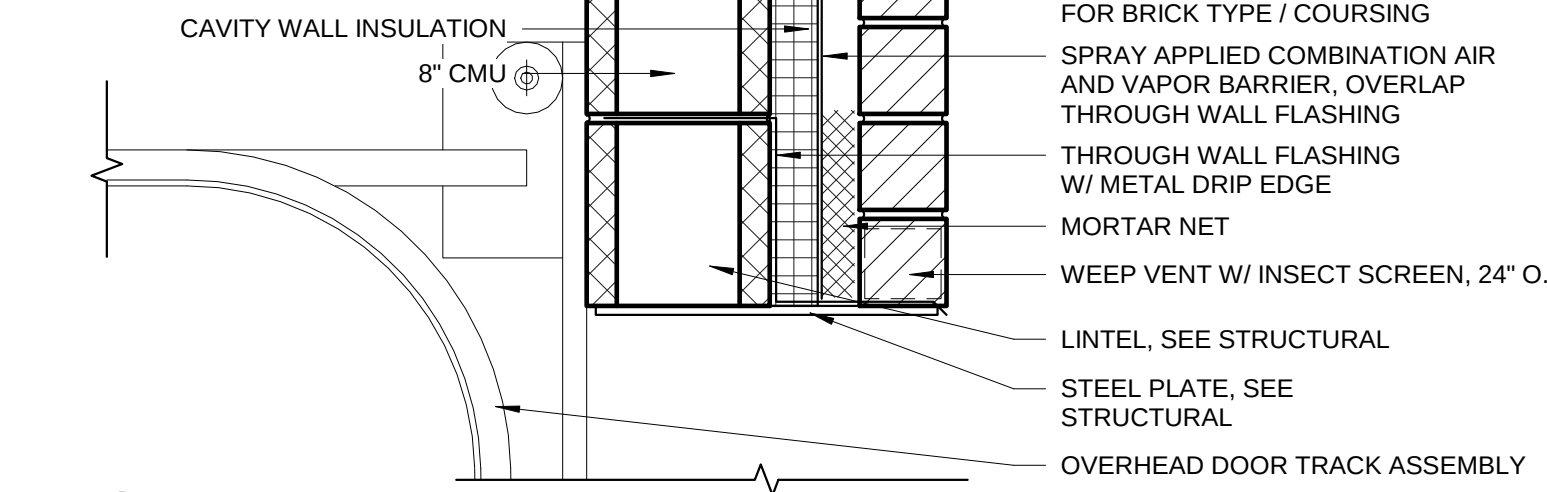
10 SCHLUTER STRIP DETAIL
1/2" = 1'-0"



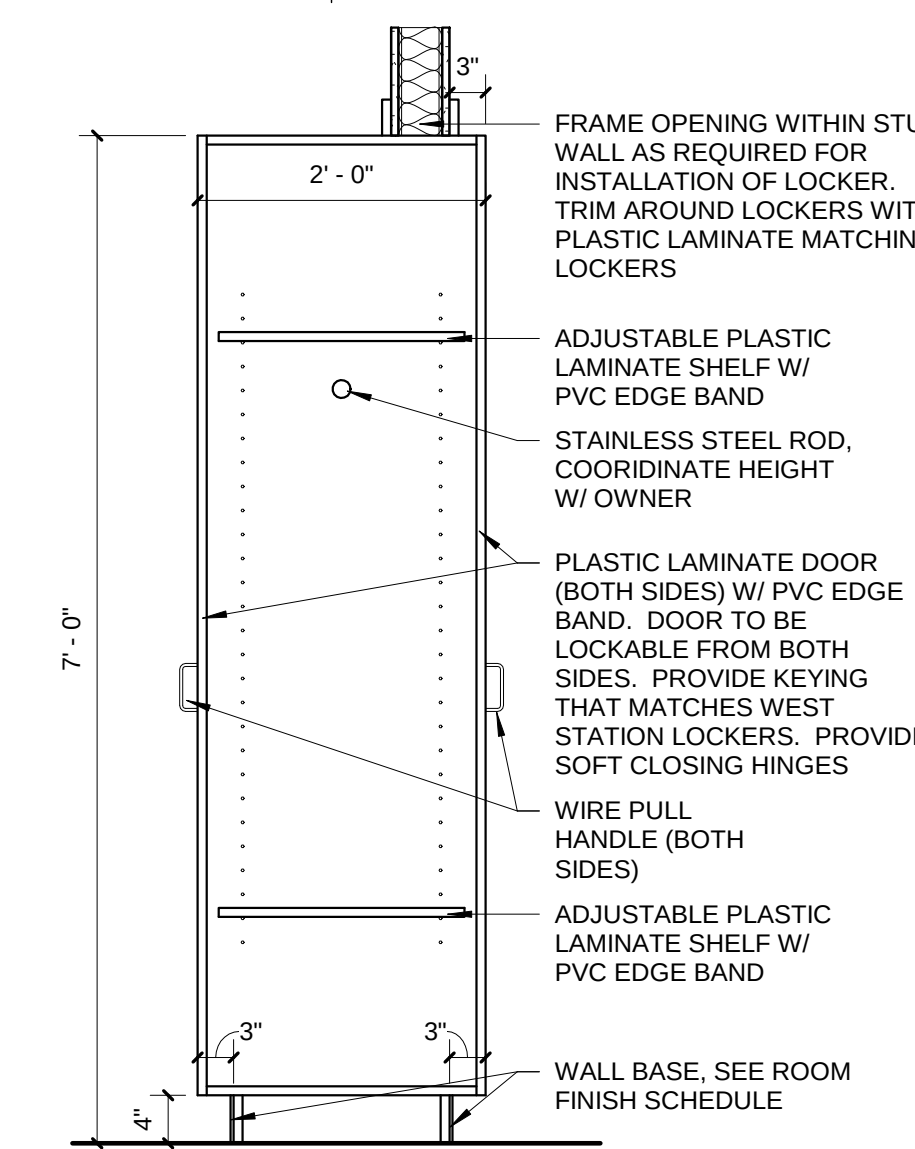
13 COUNTERTOP DETAIL
1" = 1'-0"



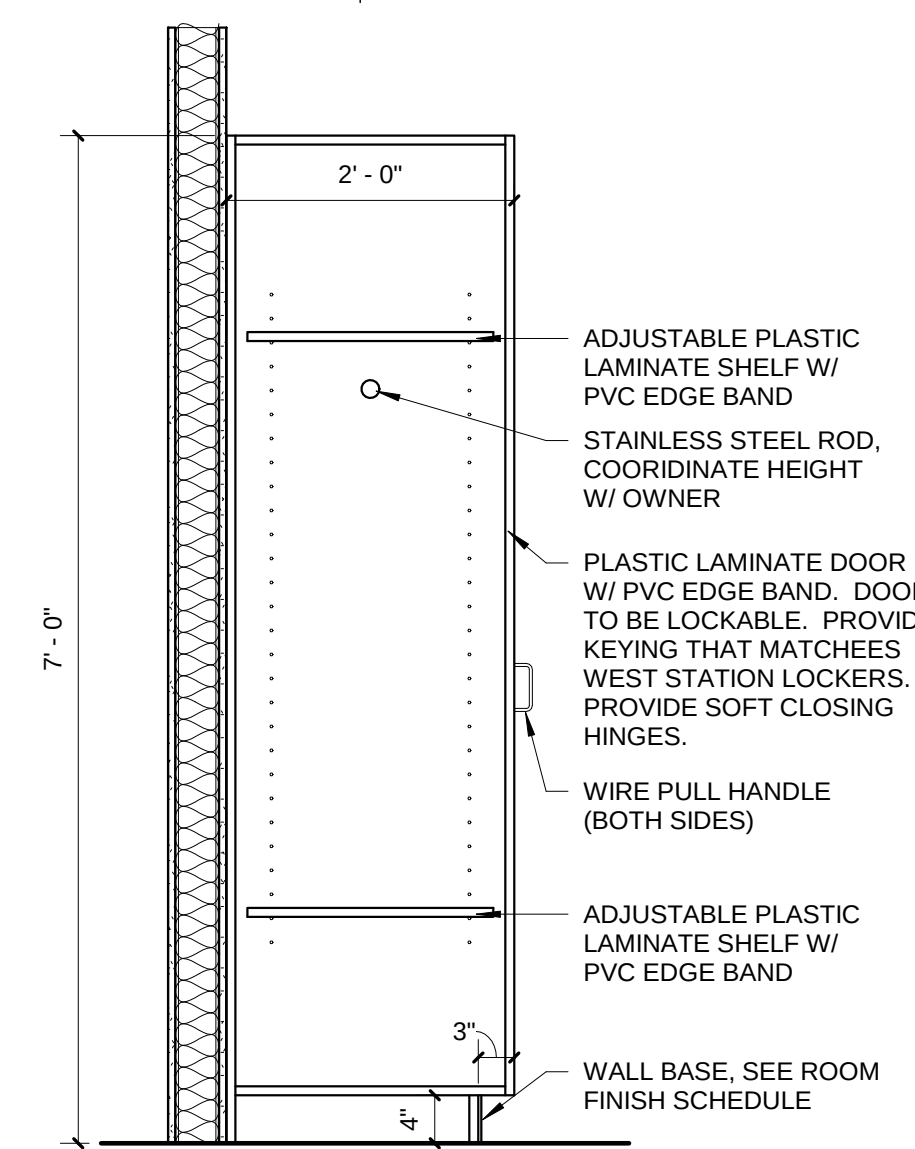
20 OVERHEAD DOOR JAMB
1 1/2" = 1'-0"



21 OVERHEAD DOOR HEAD
1 1/2" = 1'-0"

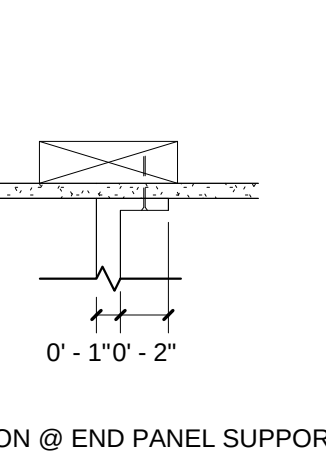


5 DUTY LOCKER SECTION
3/4" = 1'-0"

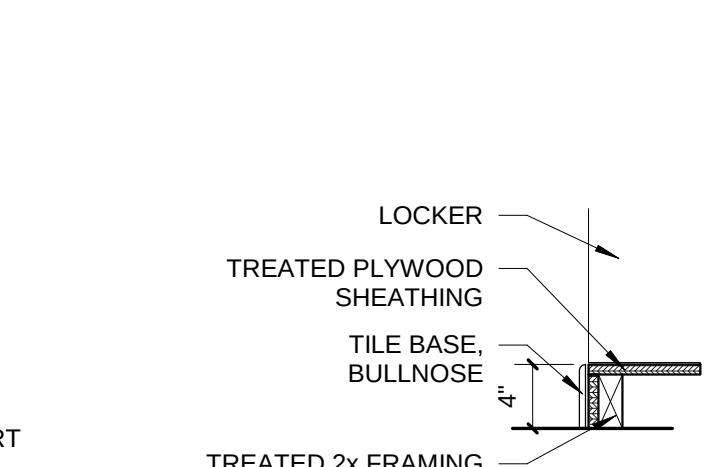


6 SHARED INTERN / O.I.C. DUTY LOCKER SECTION
3/4" = 1'-0"

11 FIRE EXTINGUISHER
1/2" = 1'-0"



12 TILE / STEEL BACKSPLASH TRANSITION
1/2" = 1'-0"



15 LOCKER BASE DETAIL
1" = 1'-0"

14 COUNTERTOP MOUNTING DETAILS
1 1/2" = 1'-0"

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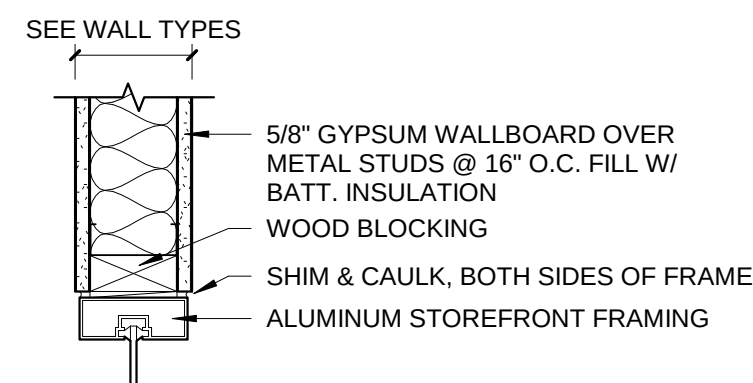
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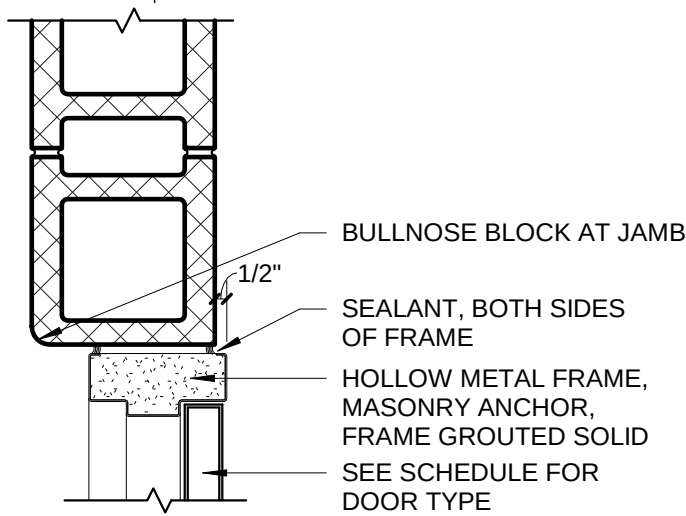
DETAILS

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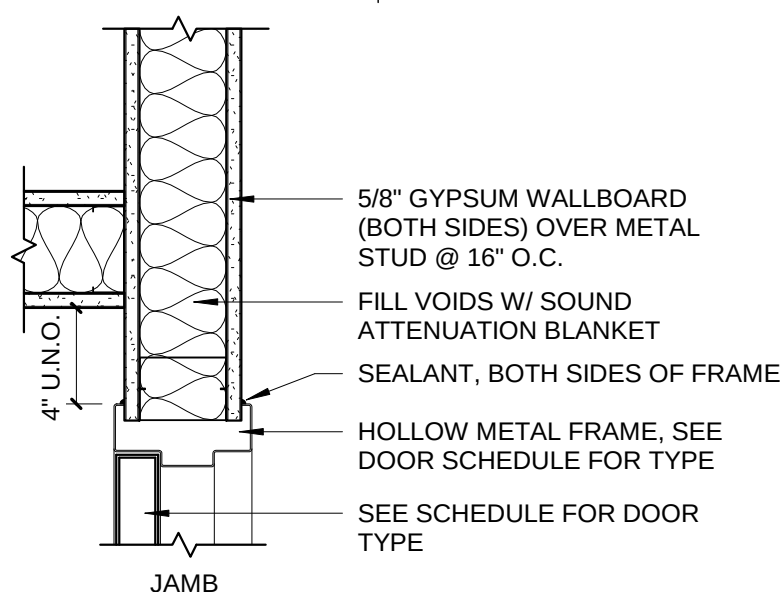
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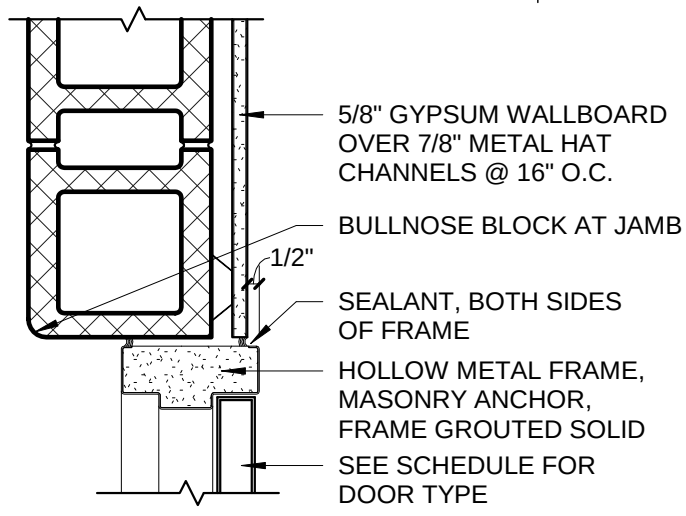
JAMB



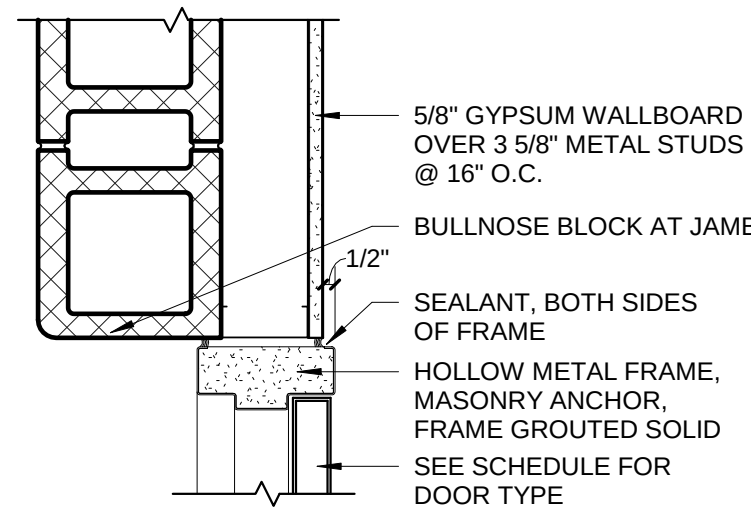
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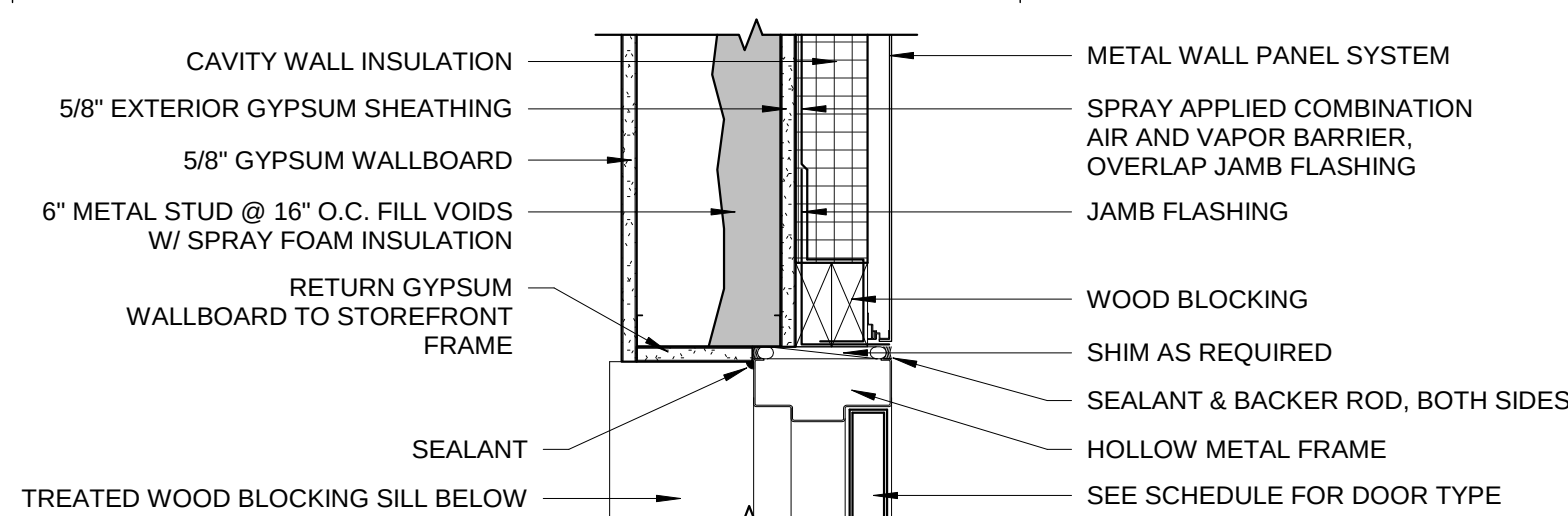
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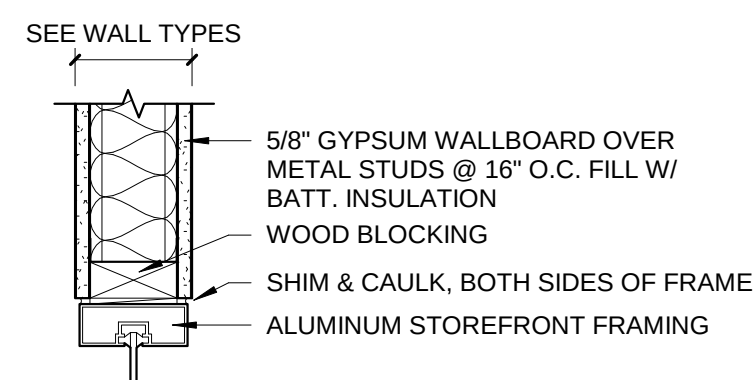
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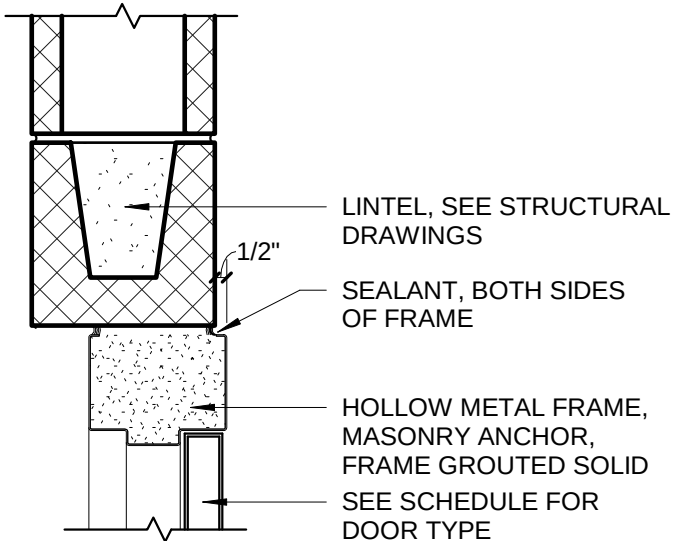
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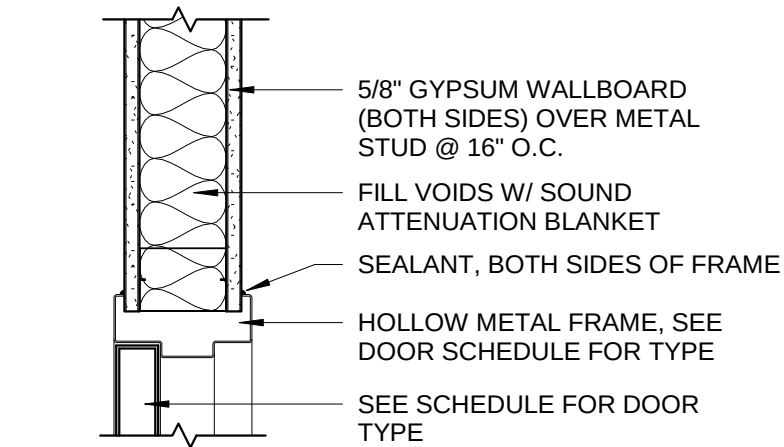
6 WINDOW JAMB - METAL STUD BACKUP
1 1/2" = 1'-0"



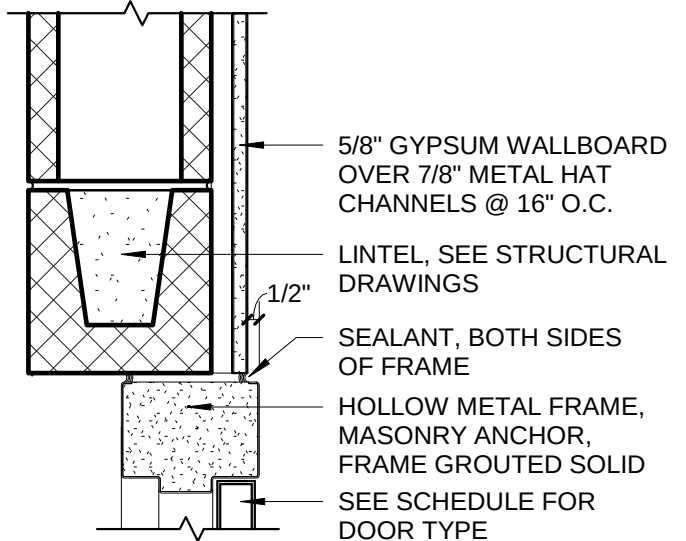
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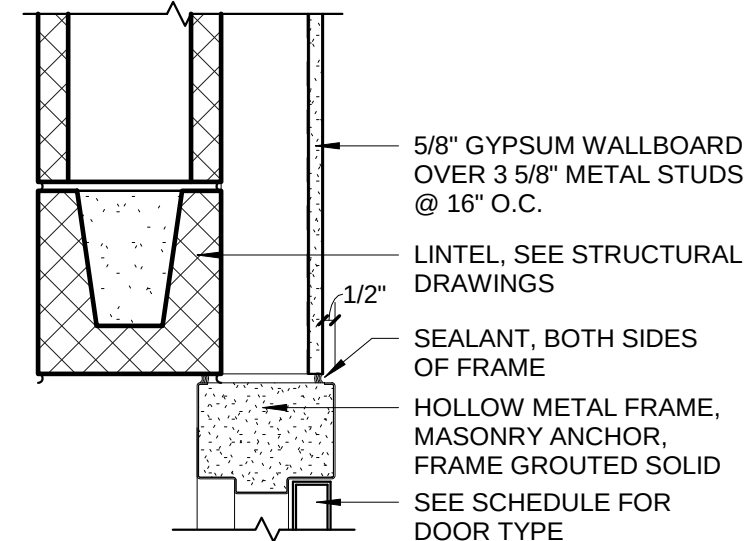
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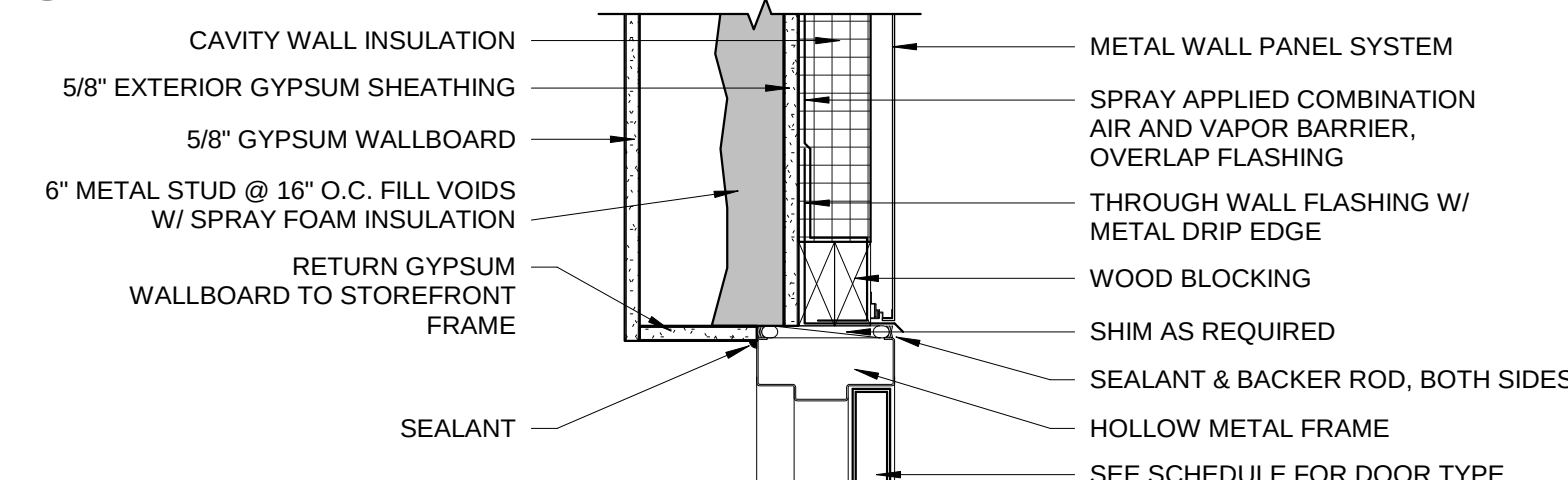
HEAD



HEAD



HEAD



7 STOREFRONT HEAD - METAL STUD BACKUP
1 1/2" = 1'-0"

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

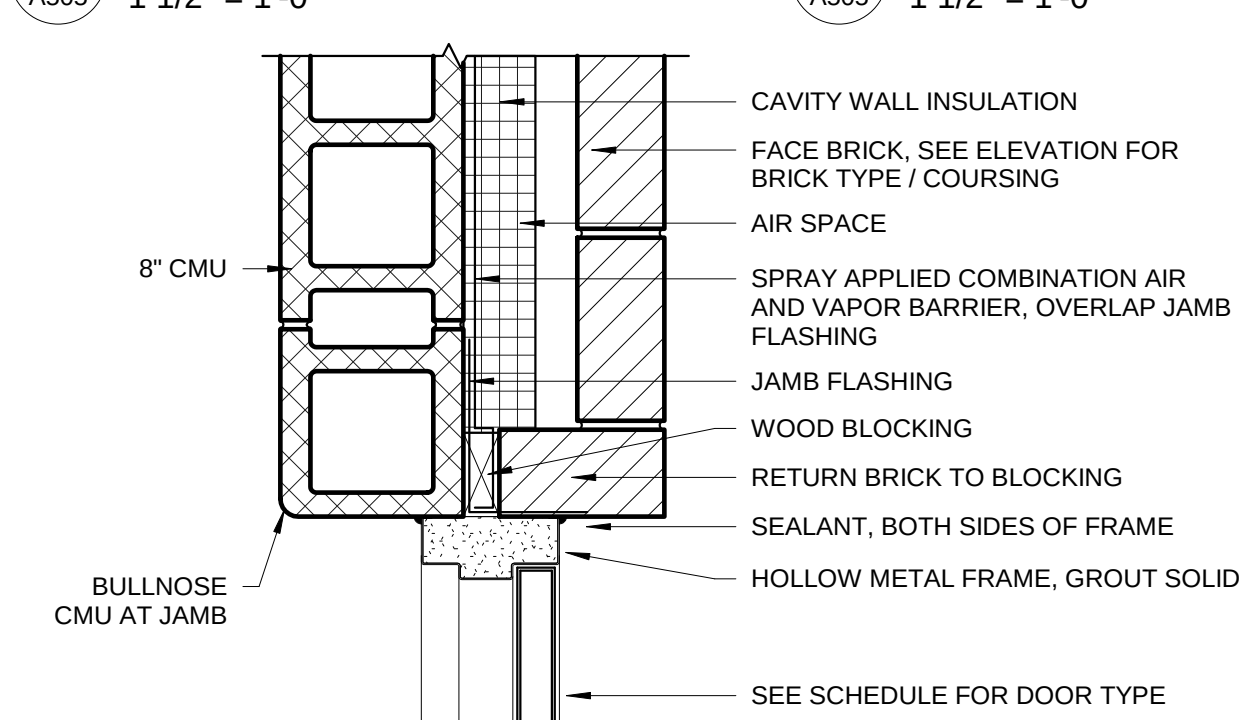
2 HEAD / JAMB DETAIL
1 1/2" = 1'-0"

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

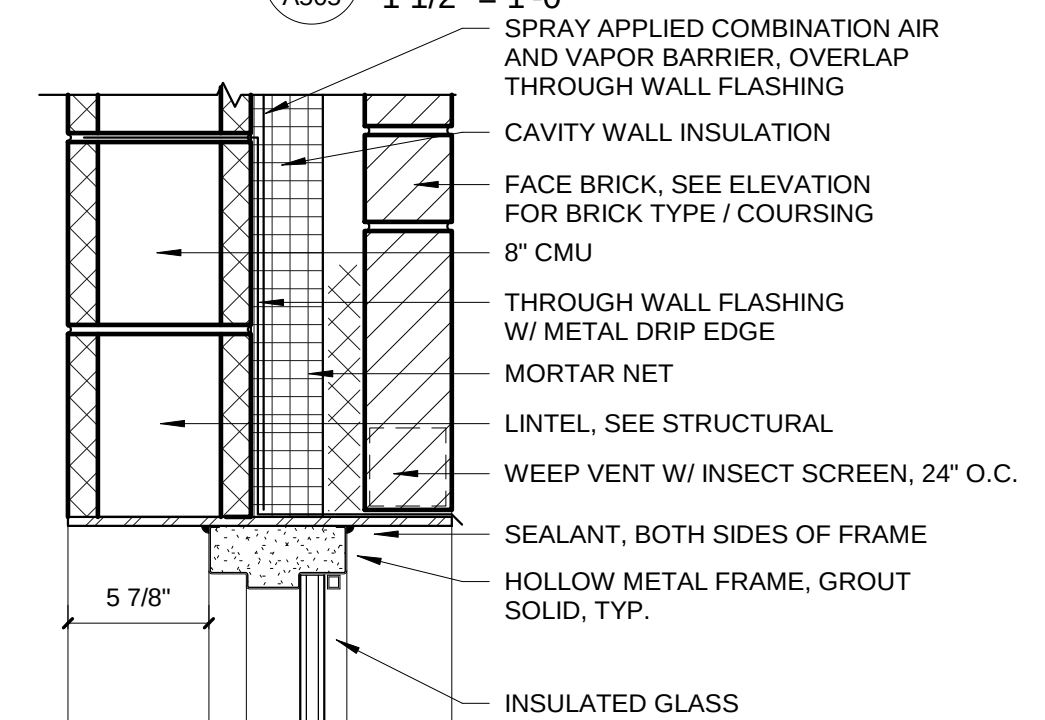
4 HEAD / JAMB DETAIL
1 1/2" = 1'-0"

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

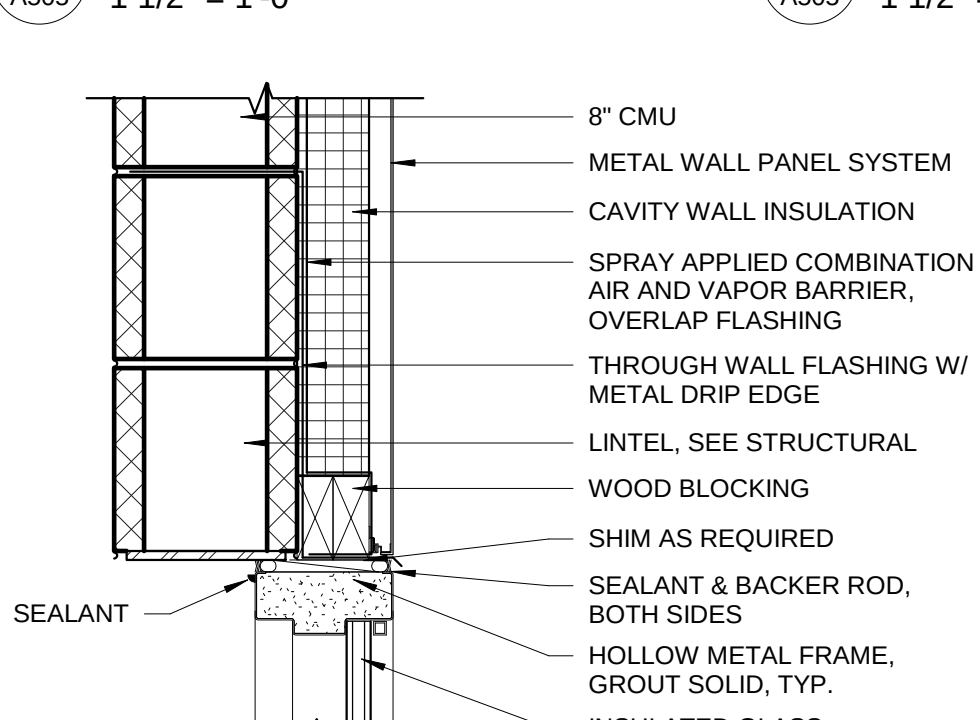
7 STOREFRONT HEAD - METAL STUD BACKUP
1 1/2" = 1'-0"



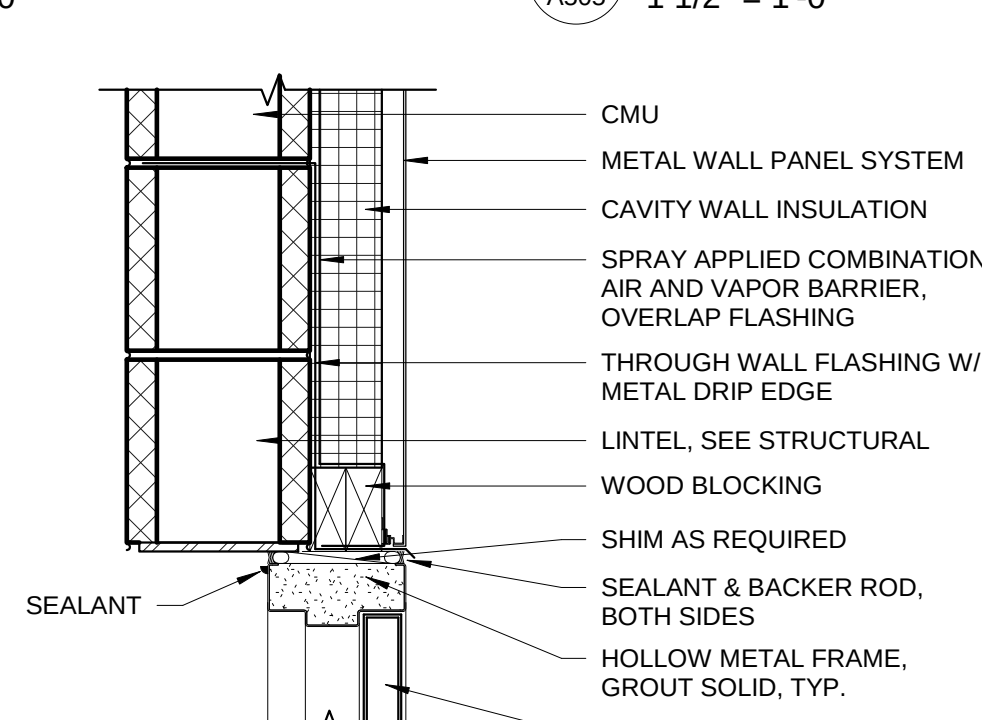
8 JAMB DETAIL
1 1/2" = 1'-0"



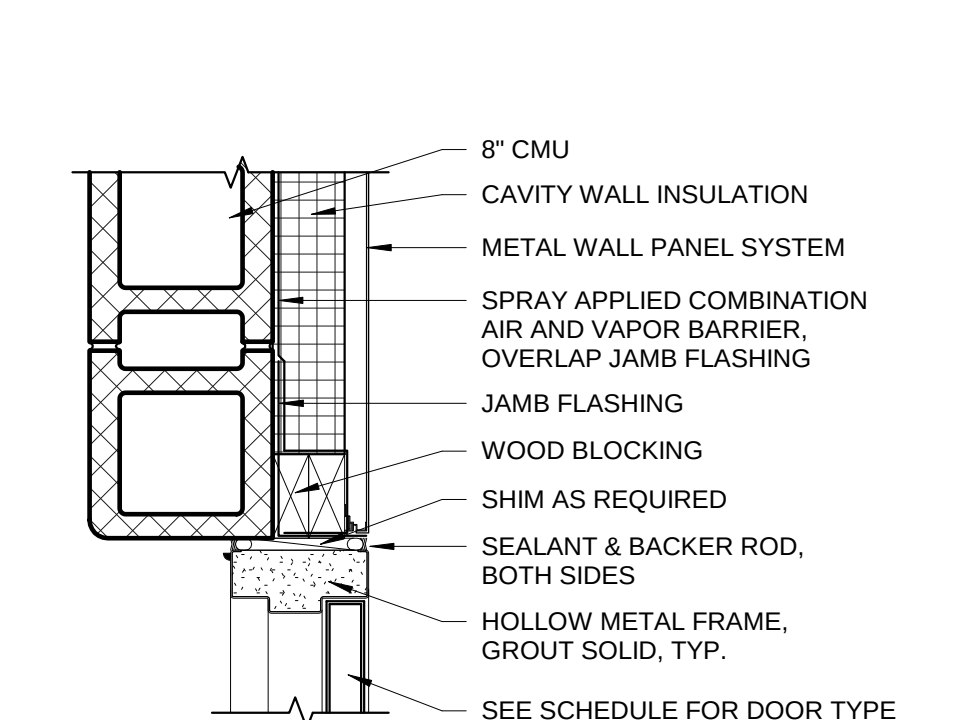
9 HEAD DETAIL
1 1/2" = 1'-0"



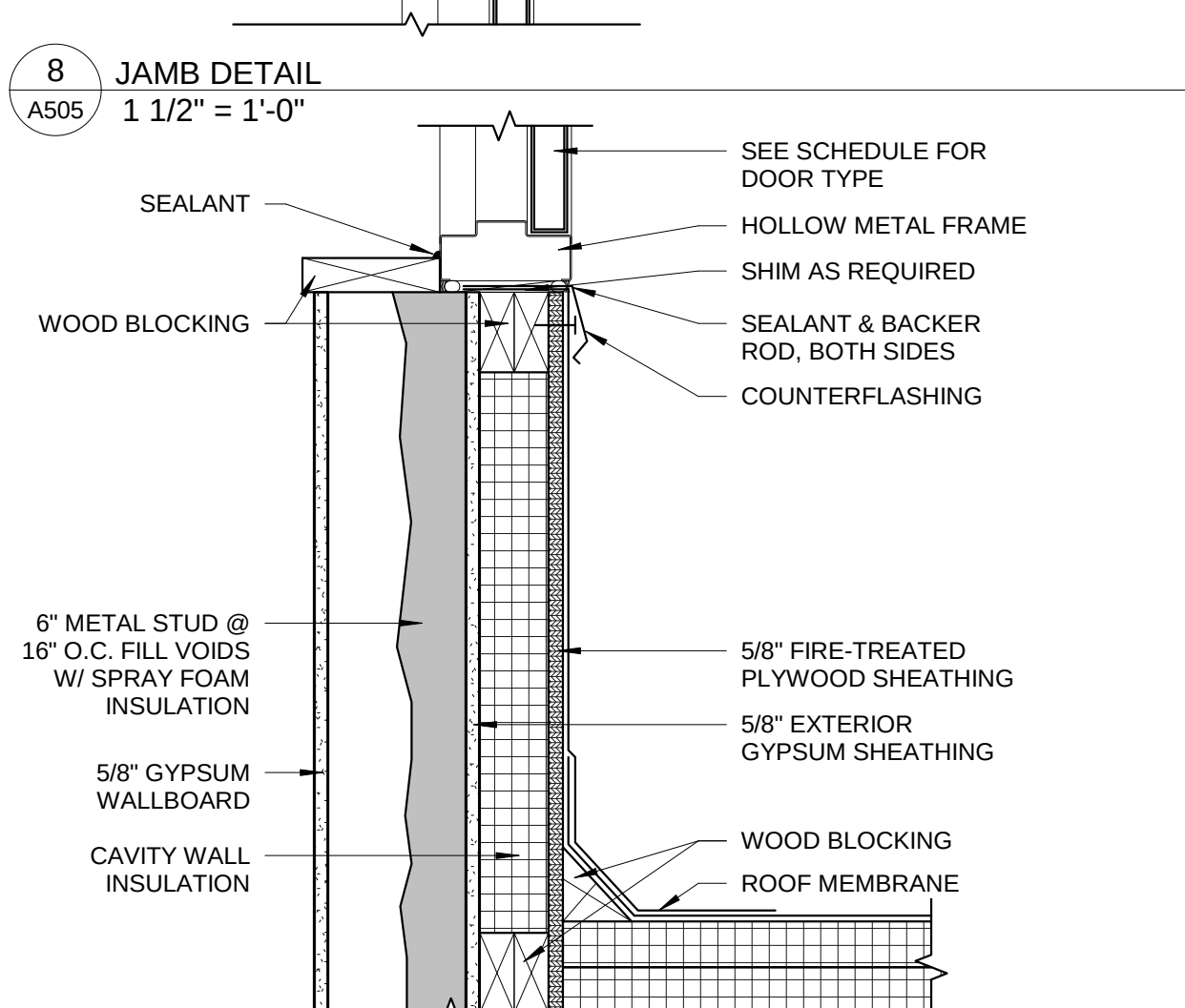
10 HOLLOW METAL HEAD - CMU BACKUP
1 1/2" = 1'-0"



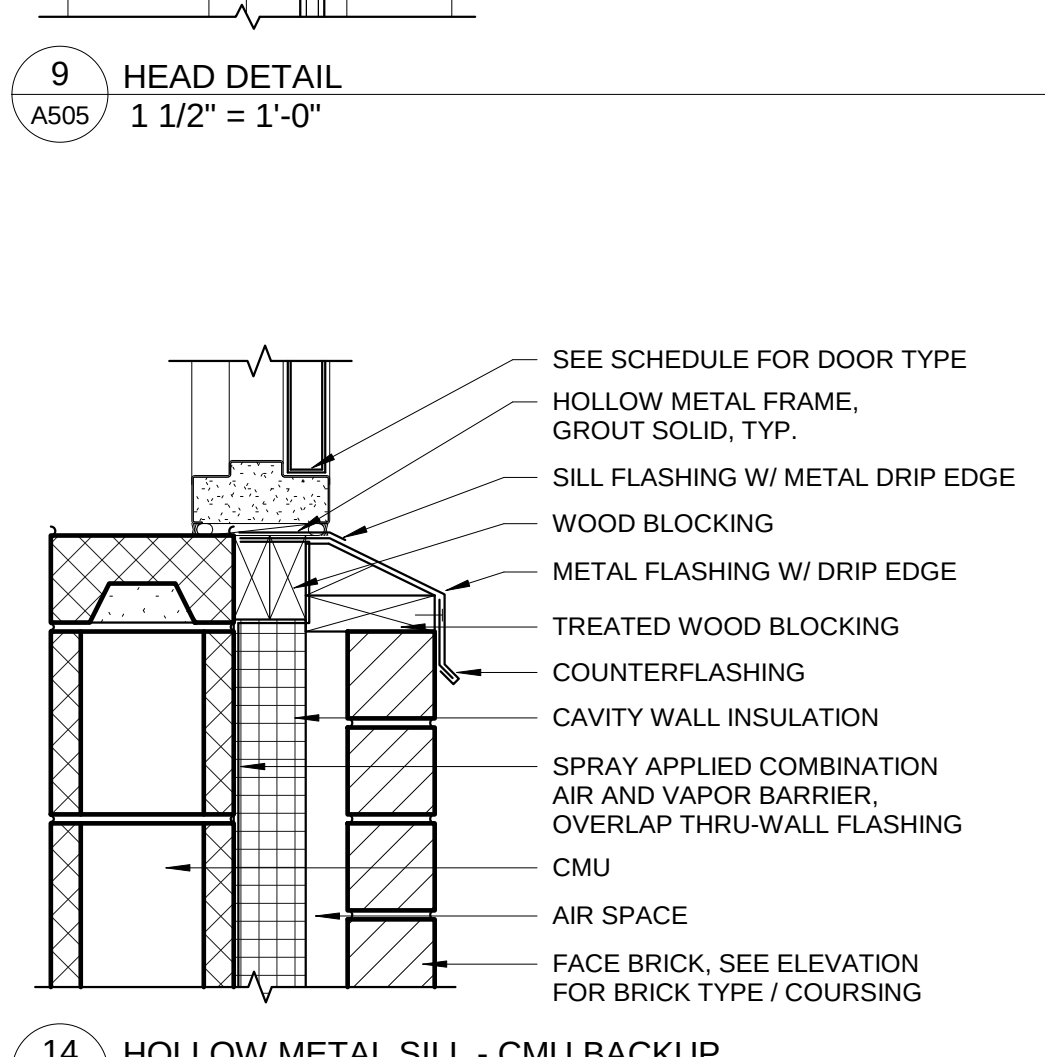
11 HOLLOW METAL HEAD - CMU BACKUP
1 1/2" = 1'-0"



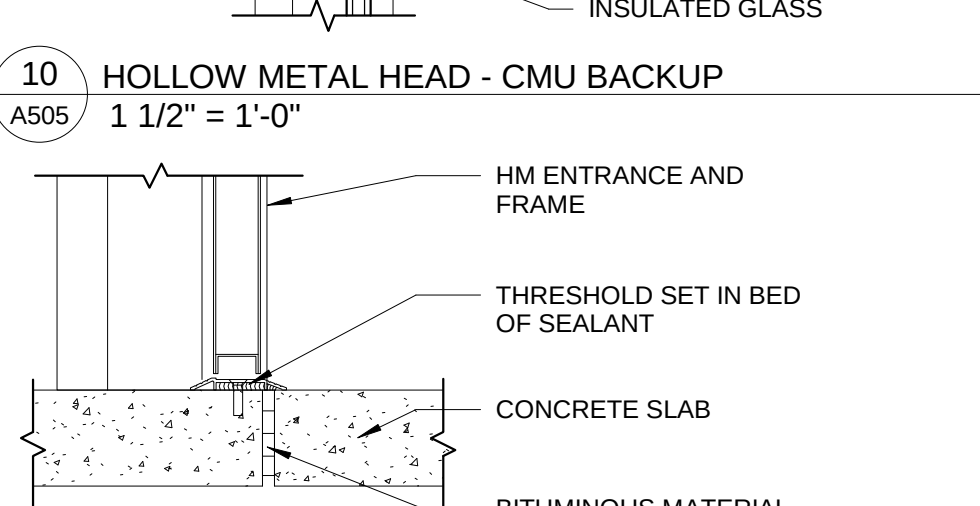
12 HOLLOW METAL JAMB - CMU BACKUP
1 1/2" = 1'-0"



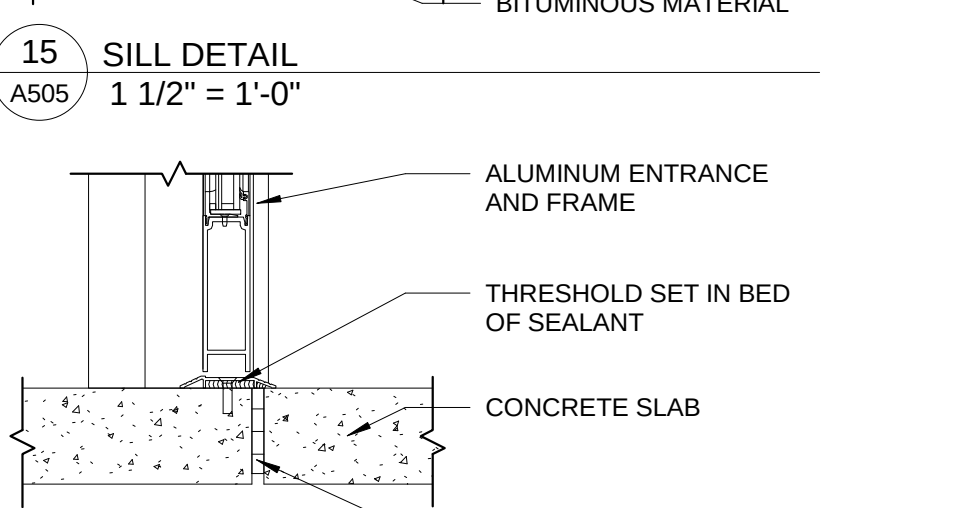
13 STOREFRONT SILL - METAL STUD BACKUP
1 1/2" = 1'-0"



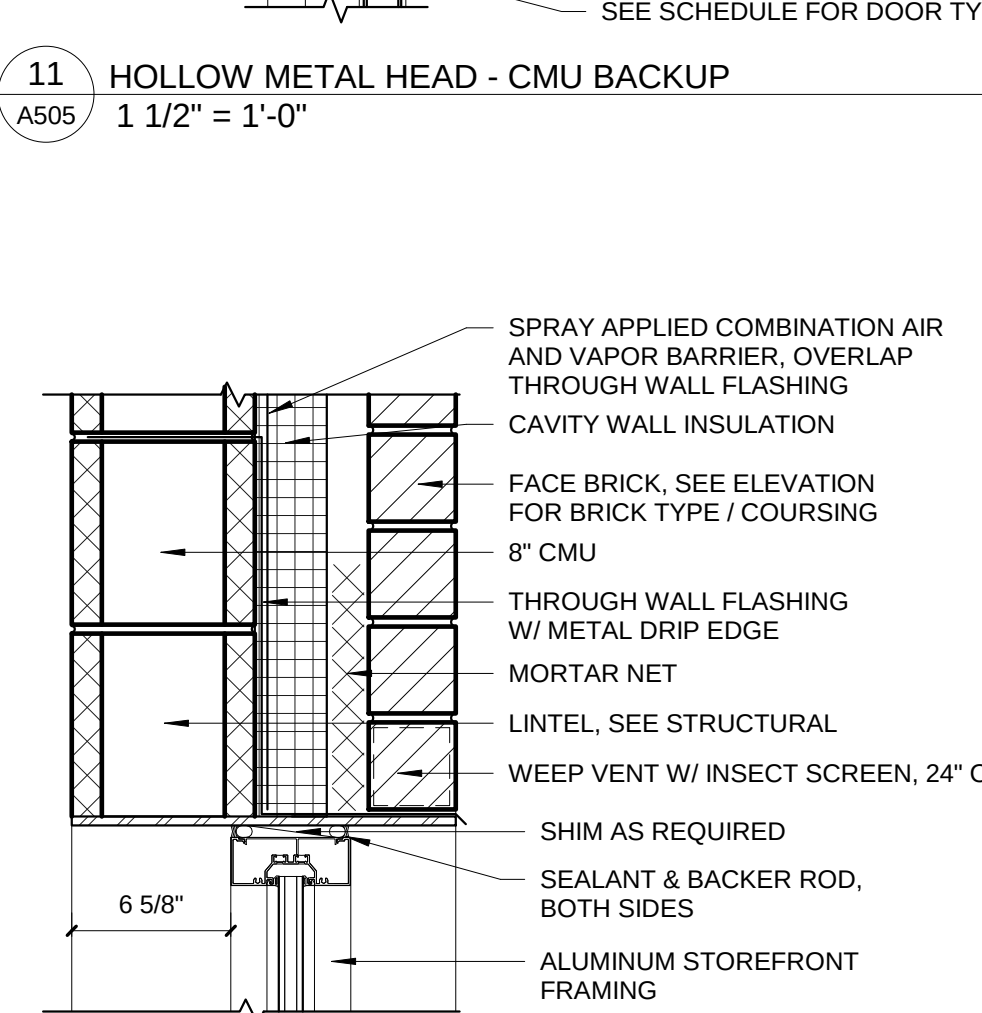
14 HOLLOW METAL SILL - CMU BACKUP
1 1/2" = 1'-0"



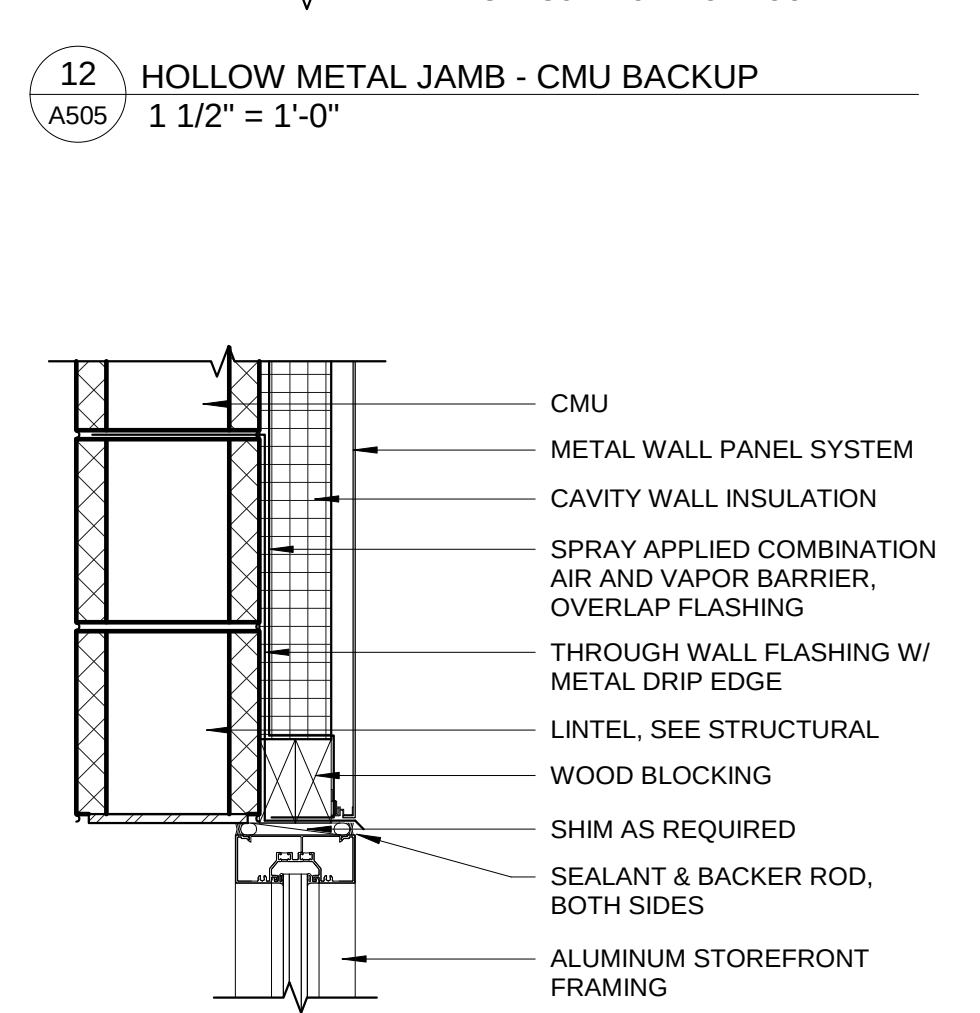
15 SILL DETAIL
1 1/2" = 1'-0"



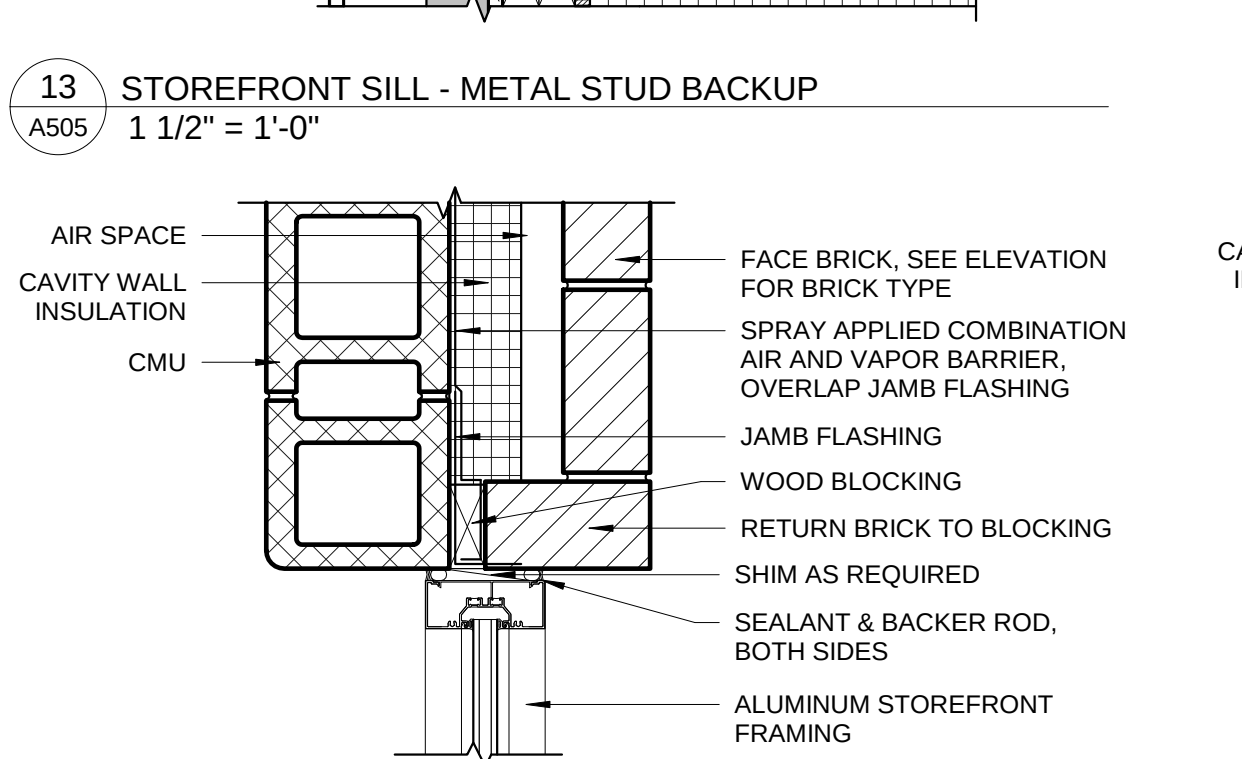
16 SILL DETAIL
1 1/2" = 1'-0"



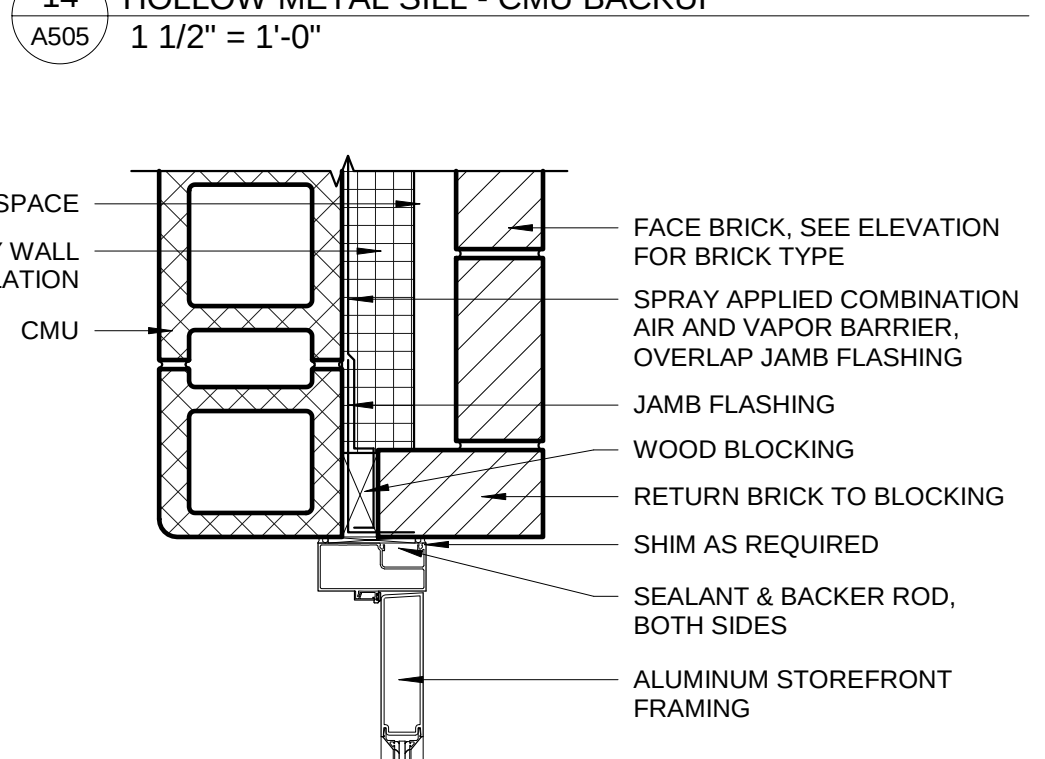
17 STOREFRONT HEAD - CMU BACKUP
1 1/2" = 1'-0"



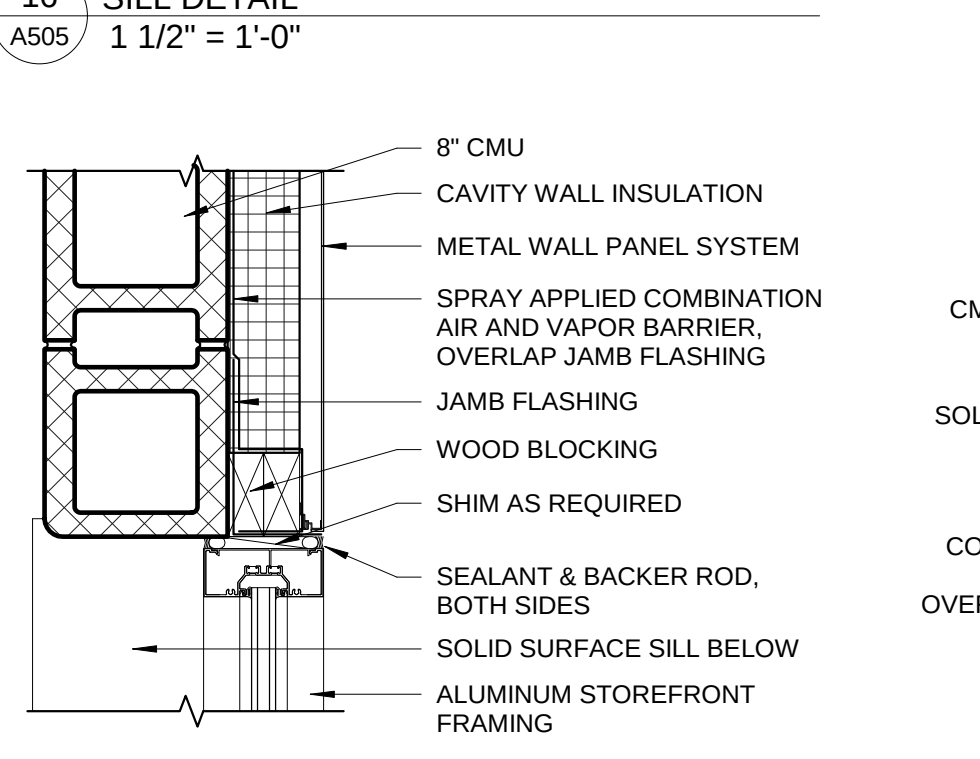
18 STOREFRONT HEAD - CMU BACKUP
1 1/2" = 1'-0"



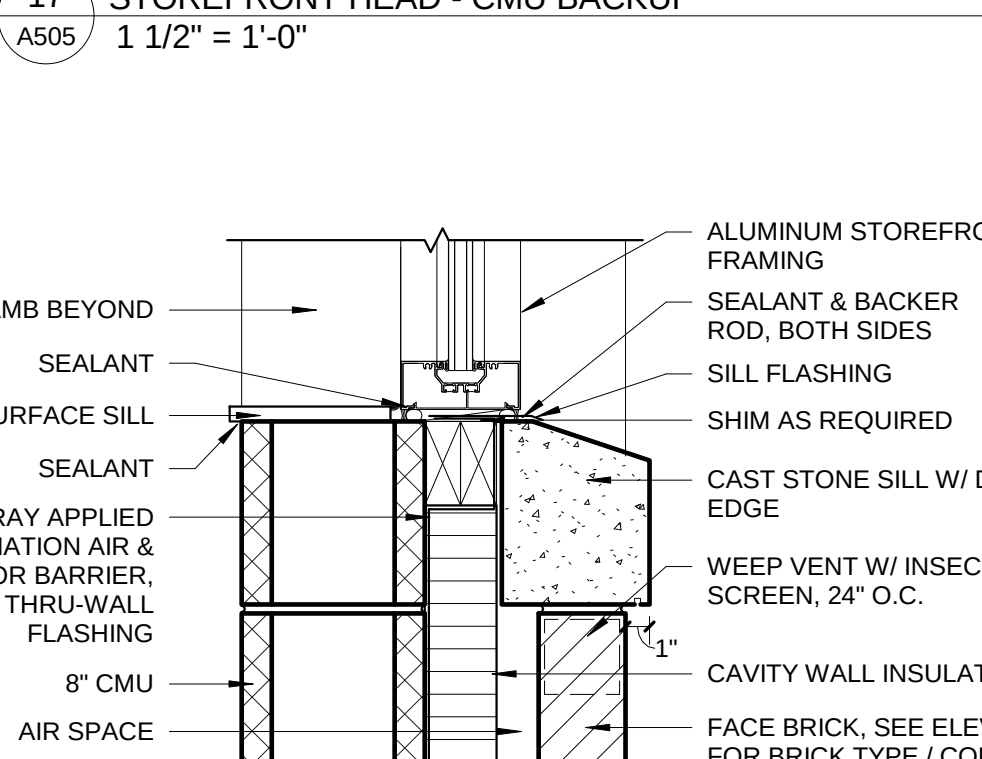
19 STOREFRONT JAMB - CMU BACKUP
1 1/2" = 1'-0"



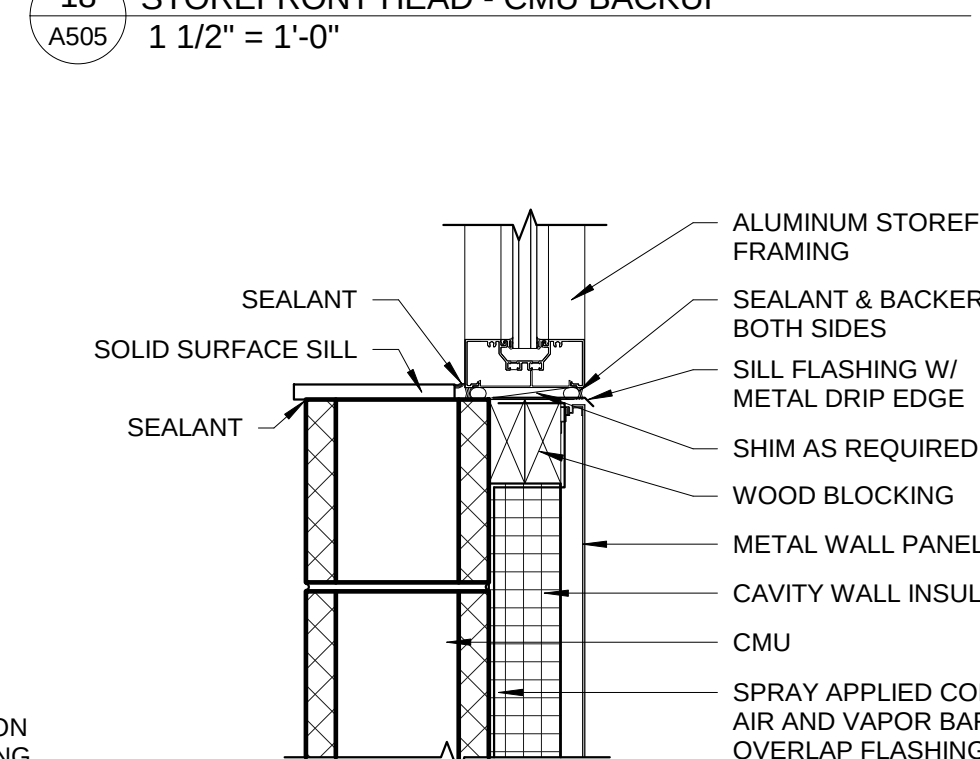
20 STOREFRONT JAMB - CMU BACKUP
1 1/2" = 1'-0"



21 STOREFRONT JAMB - CMU BACKUP
1 1/2" = 1'-0"



22 STOREFRONT SILL - CMU BACKUP
1 1/2" = 1'-0"



23 STOREFRONT SILL - CMU BACKUP
1 1/2" = 1'-0"



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MARK	DATE	DESCRIPTION

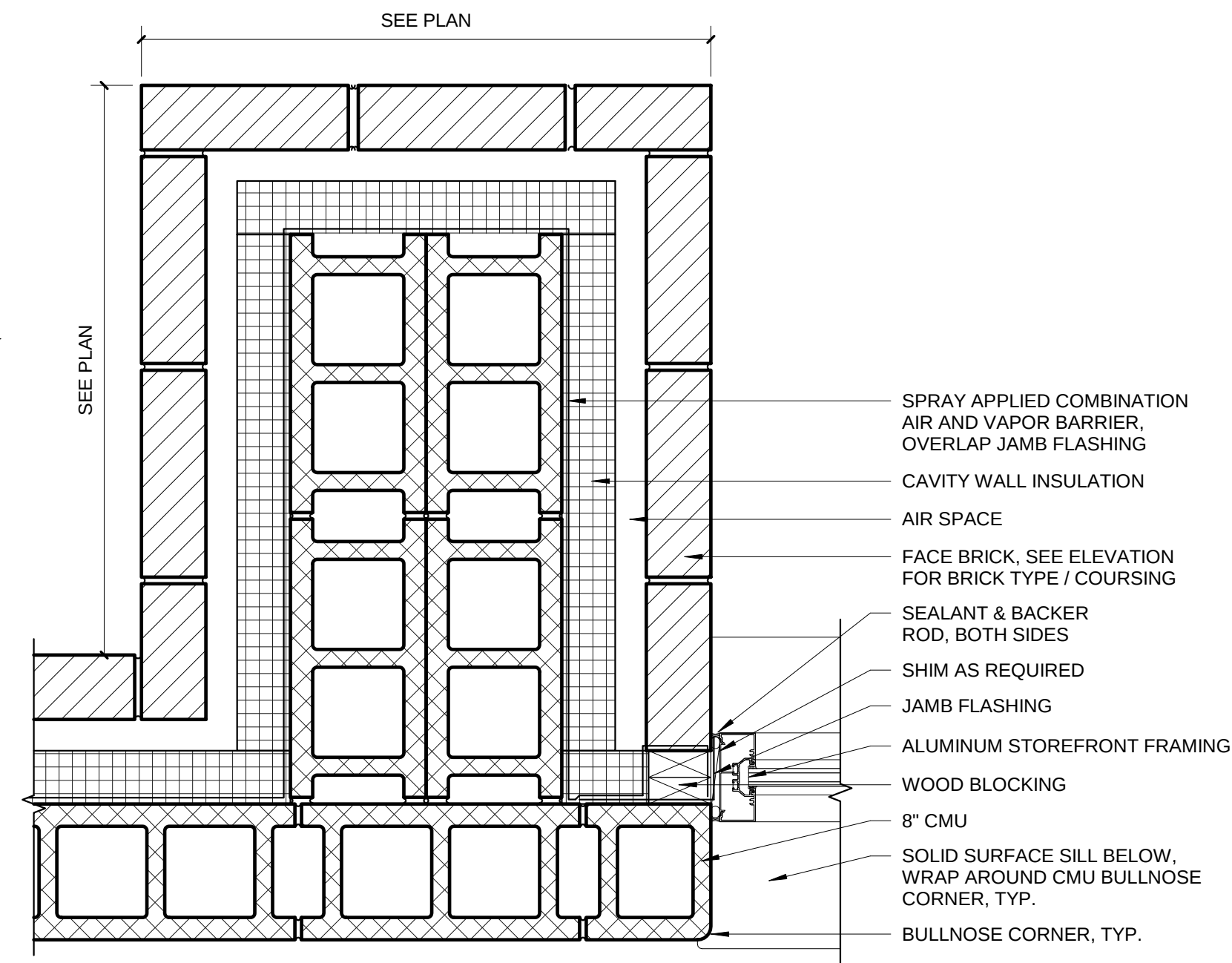
FITCHBURG EAST
FIRE STATION
2950 SOUTH SYENE ROAD, FITCHBURG, WI

SEH FILE NO. FITCH 1397005
ISSUE DATE JANUARY 23, 2018
DESIGN BY TMF
DRAWN BY MJB
PROJECT MGR TMF
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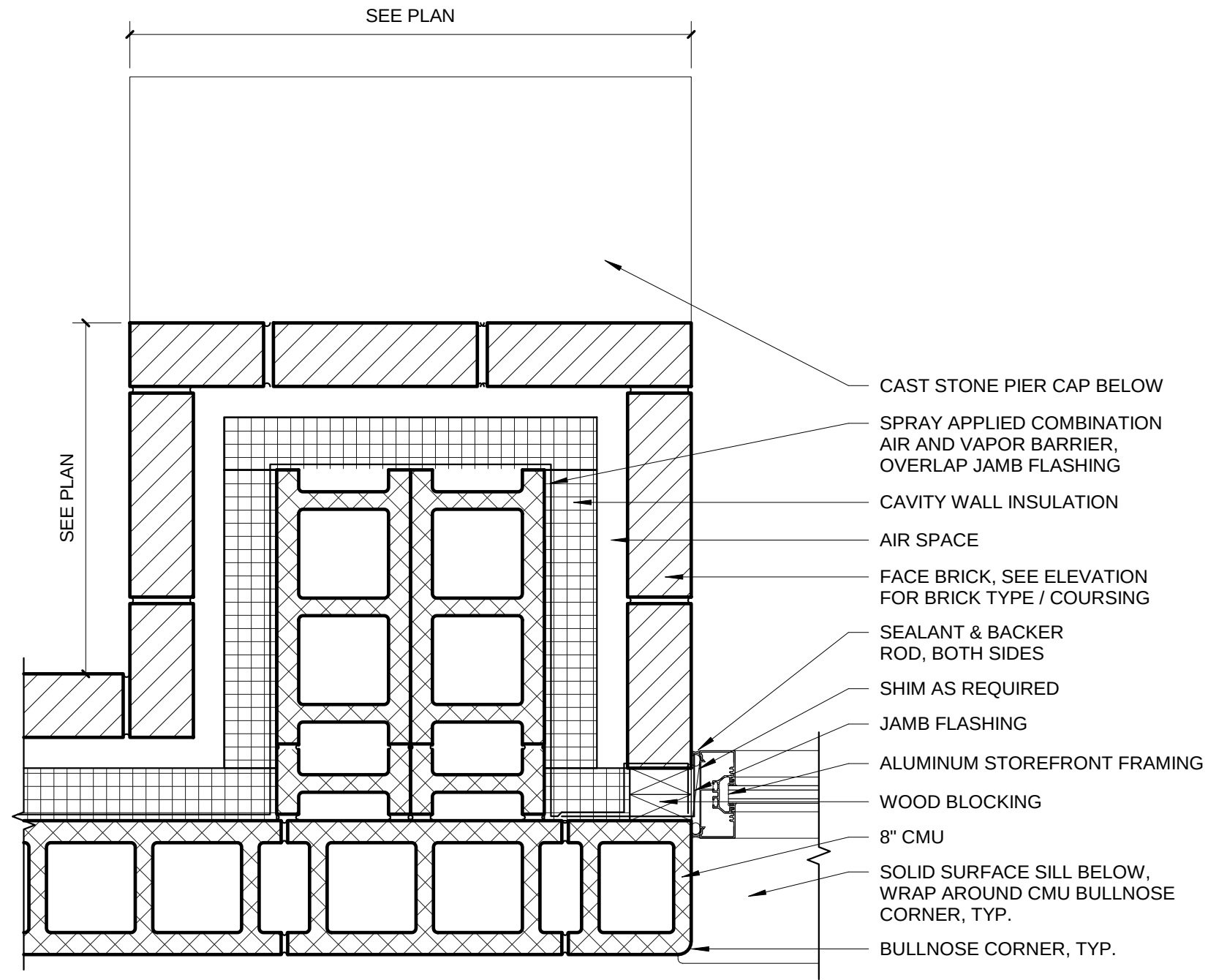
SHEET CONTENTS
DETAILS

A505

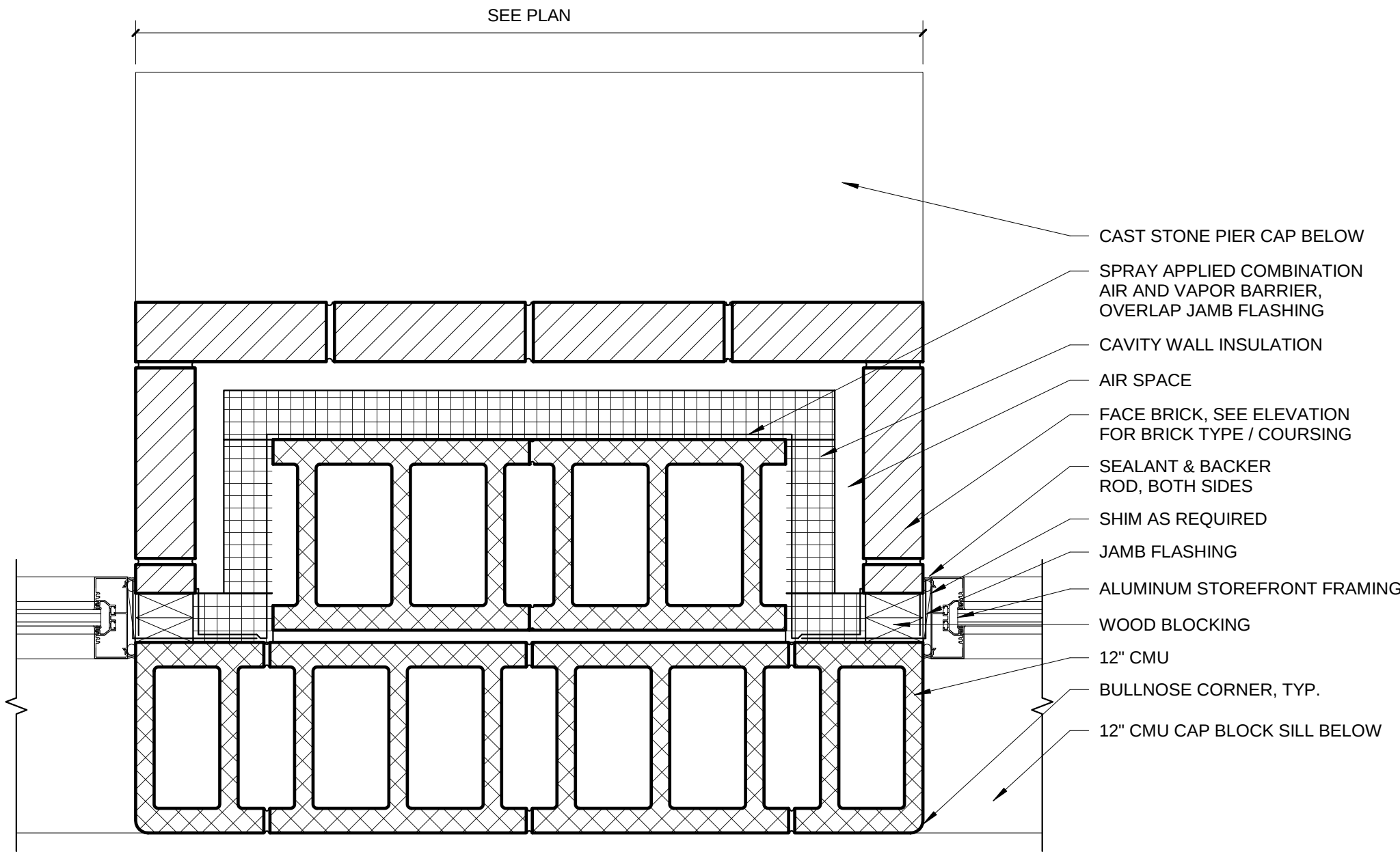
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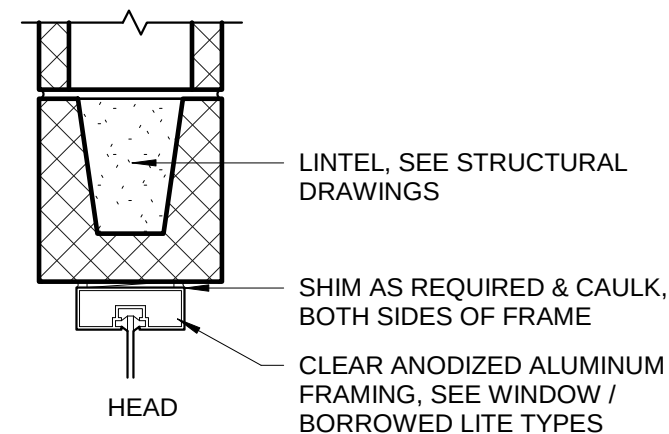
1 OFFICE PIER - LOWER
A506 1 1/2" = 1'-0"



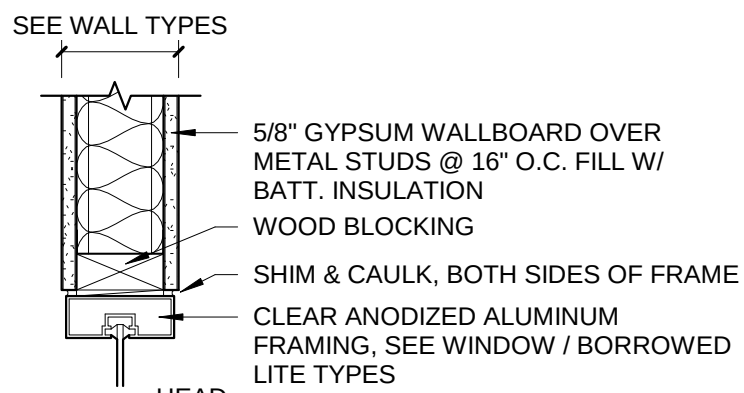
2 OFFICE PIER - UPPER
A506 1 1/2" = 1'-0"



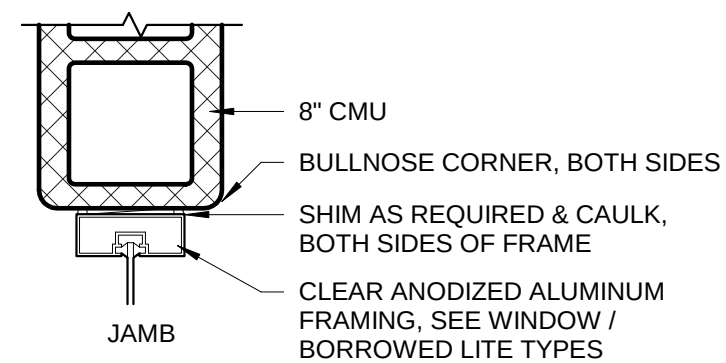
3 APPARATUS PIER - UPPER
A506 1 1/2" = 1'-0"



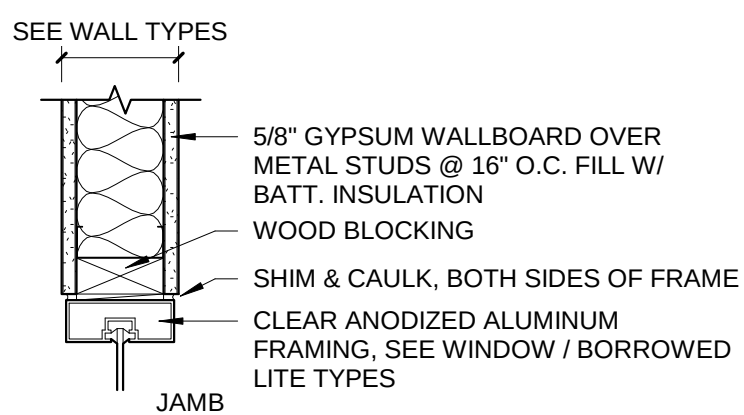
4 HEAD / JAMB / SILL DETAIL
A506 1 1/2" = 1'-0"



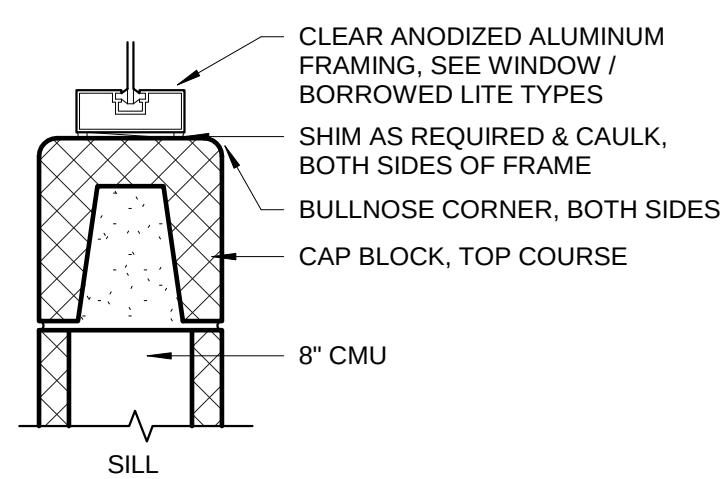
5 HEAD / JAMB / SILL DETAIL
A506 1 1/2" = 1'-0"



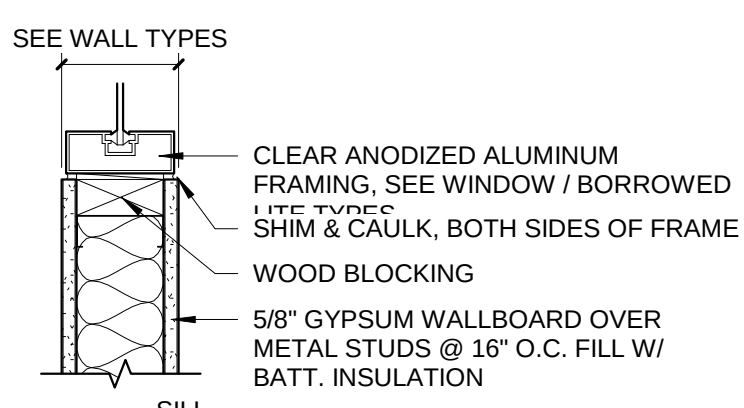
6 FOUR FOLD DOOR HEAD
A506 1 1/2" = 1'-0"



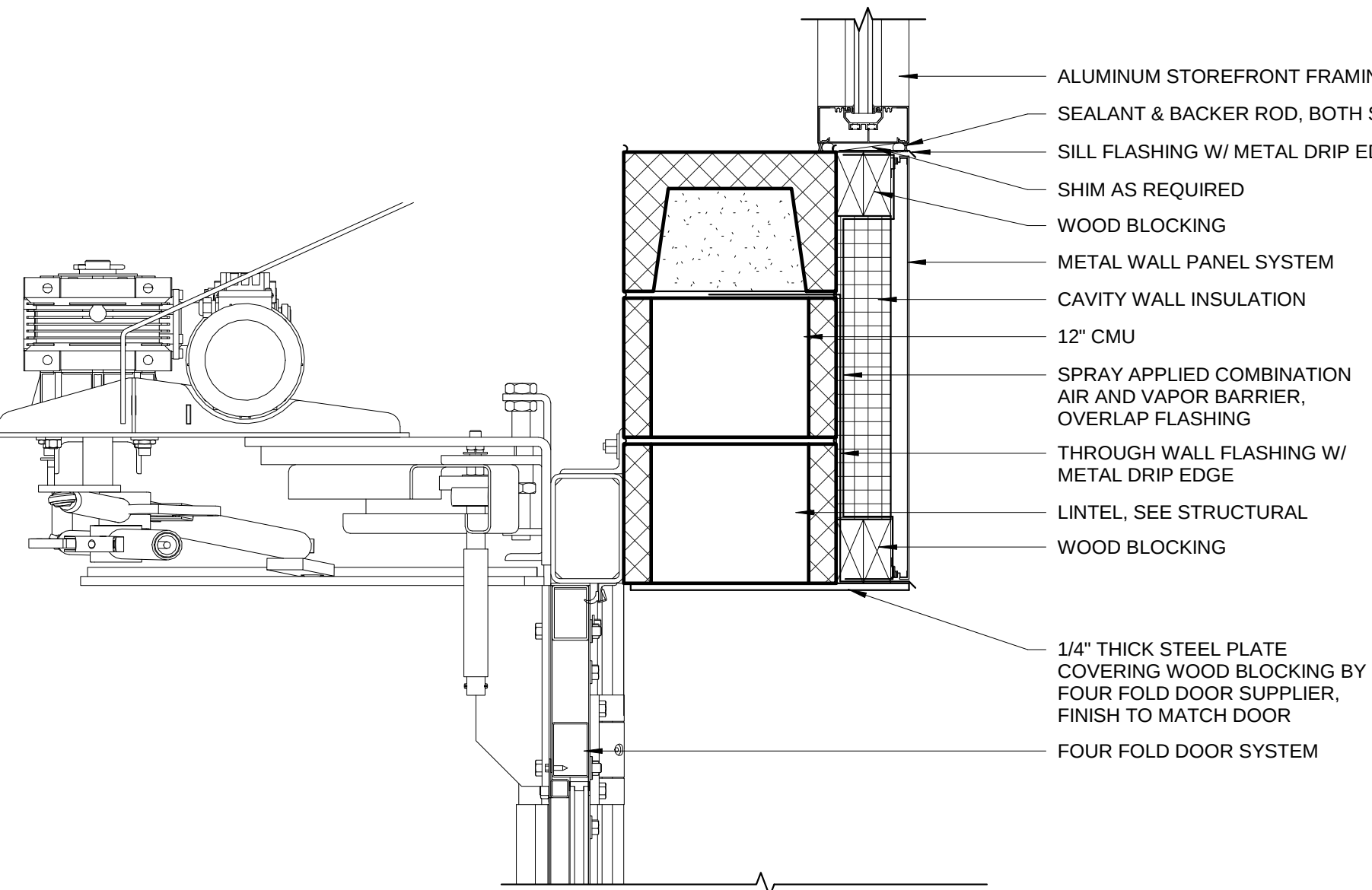
7 FOUR FOLD DOOR JAMB
A506 1 1/2" = 1'-0"



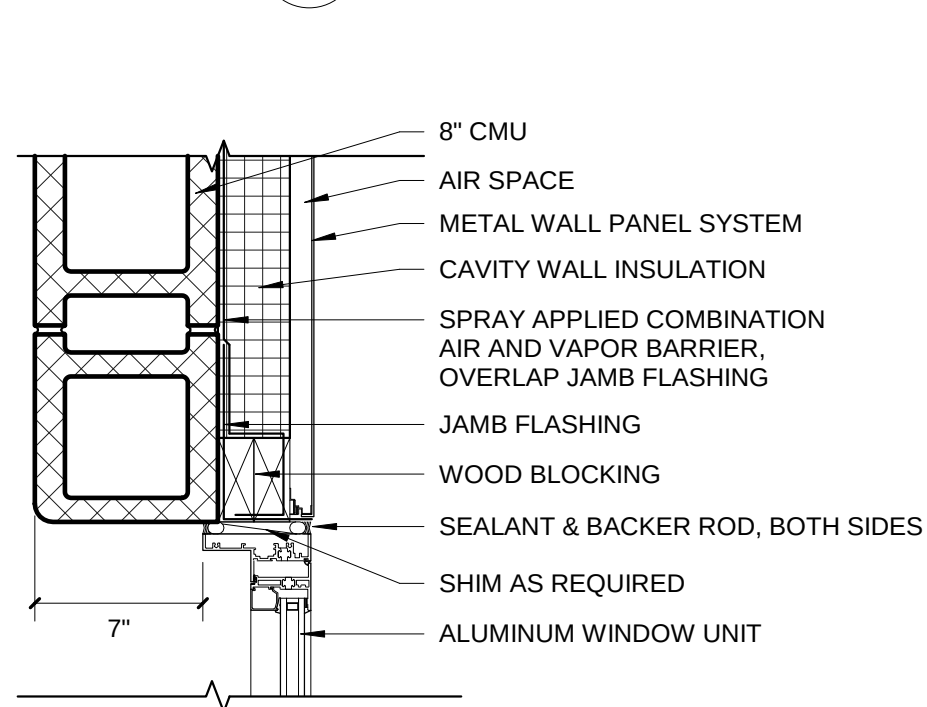
8 WINDOW HEAD - CMU BACKUP
A506 1 1/2" = 1'-0"



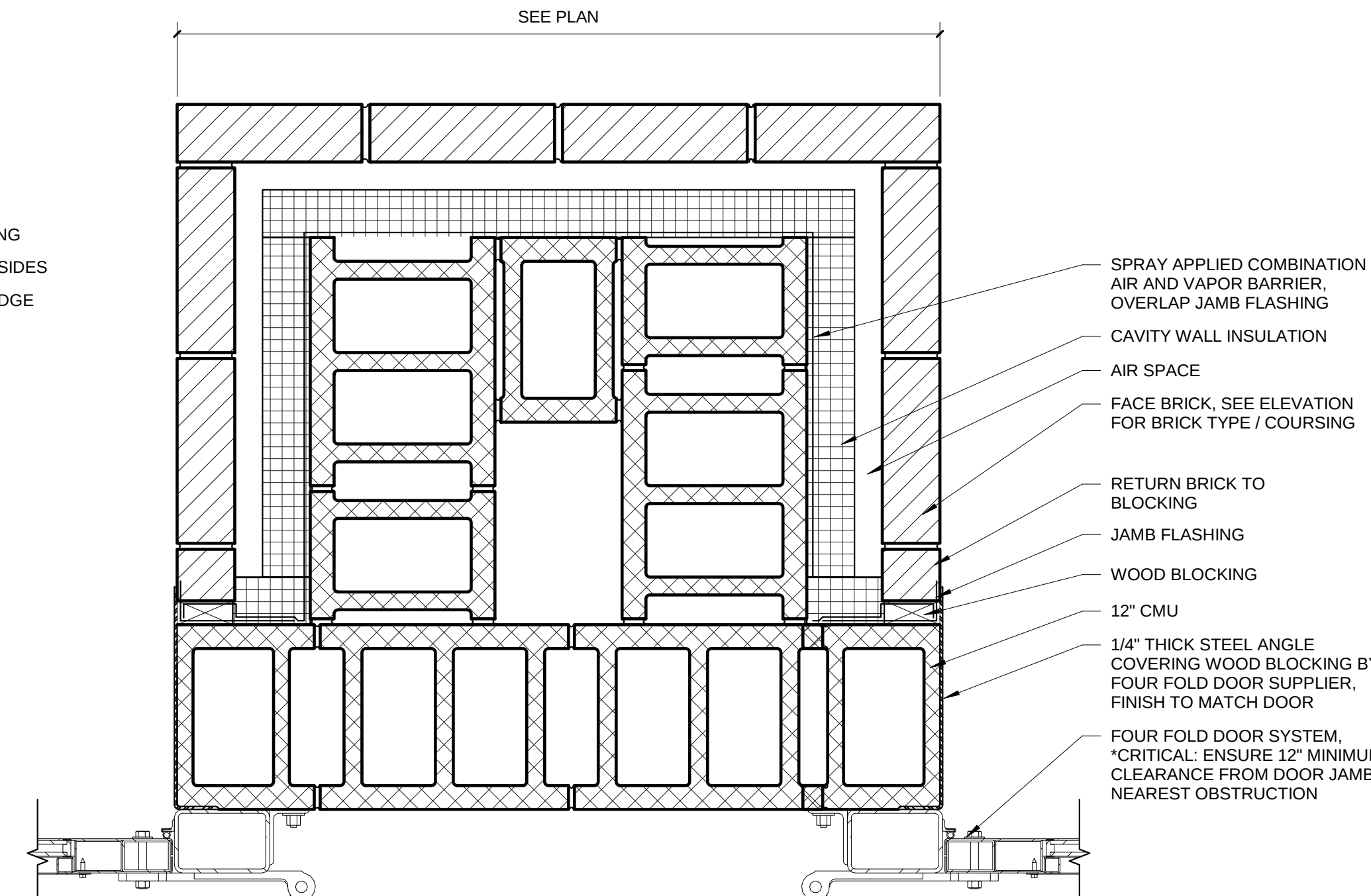
9 WINDOW HEAD - CMU BACKUP
A506 1 1/2" = 1'-0"



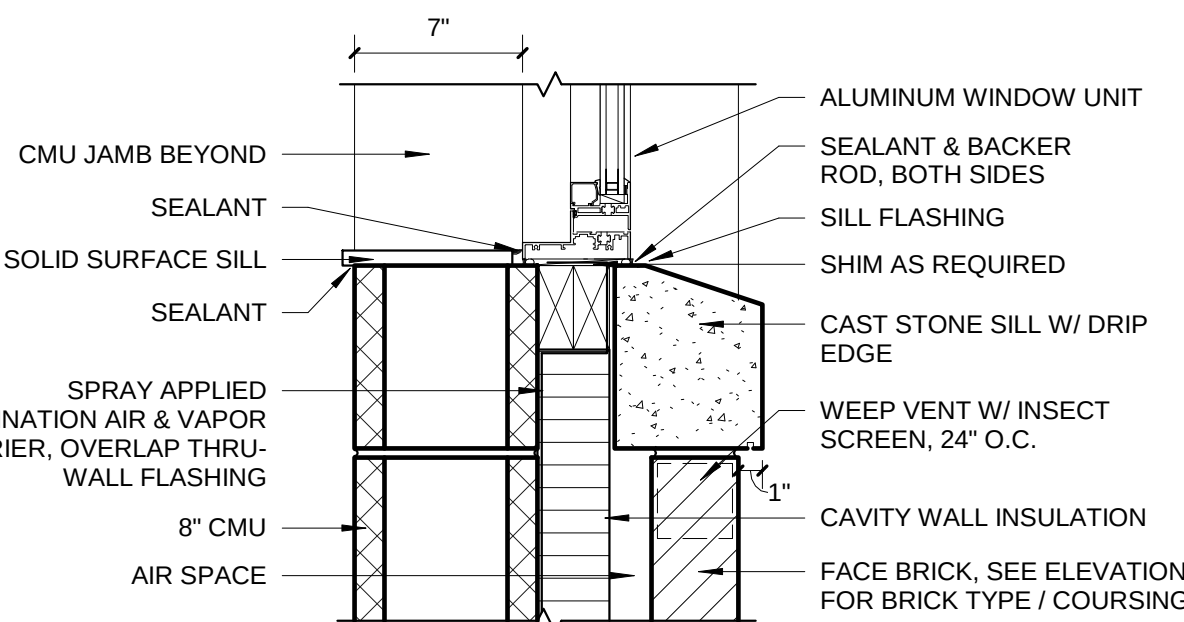
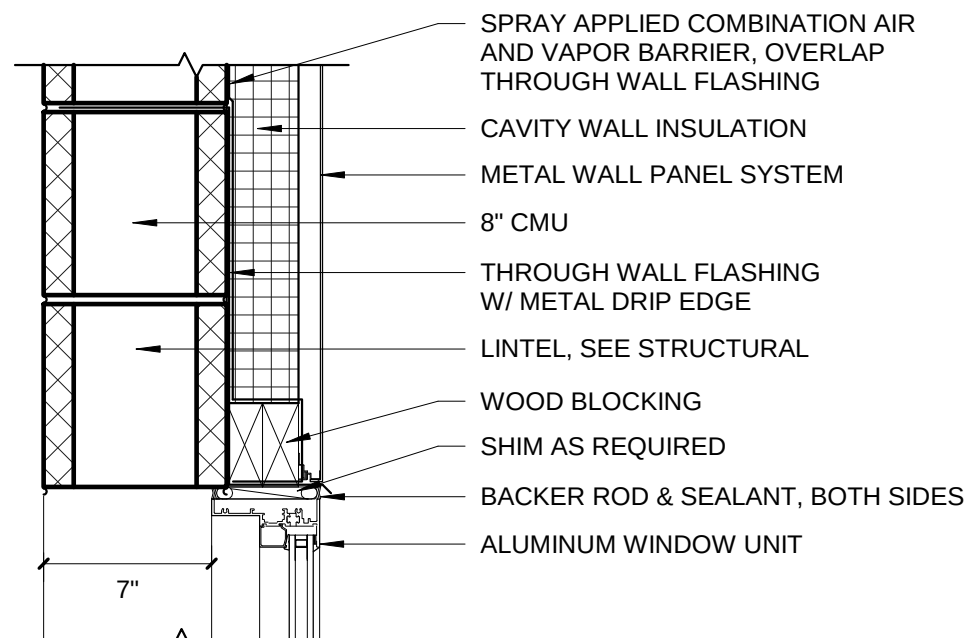
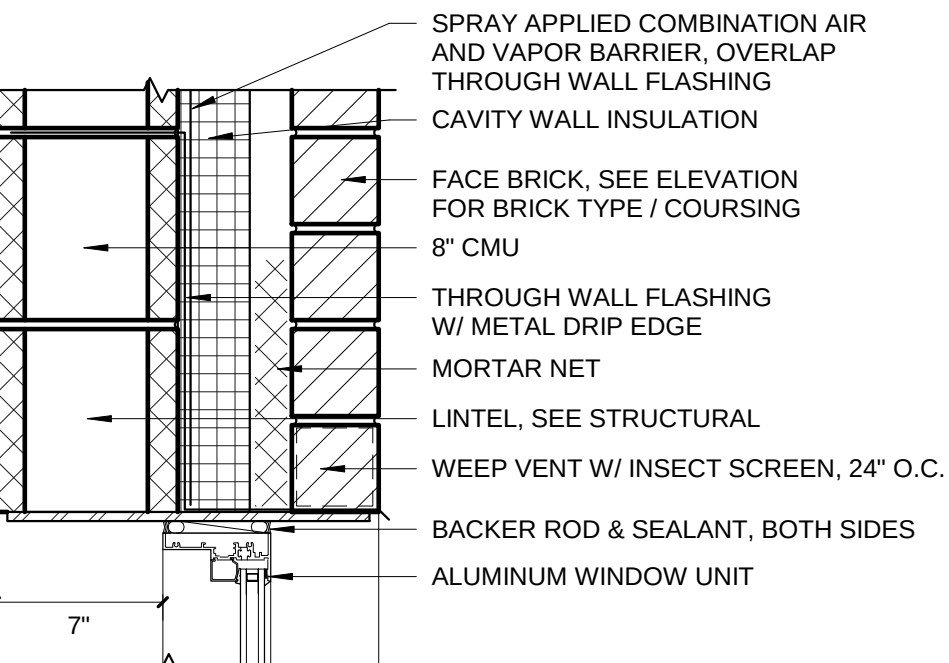
10 WINDOW JAMB - CMU BACKUP
A506 1 1/2" = 1'-0"



11 WINDOW JAMB - CMU BACKUP
A506 1 1/2" = 1'-0"



12 WINDOW SILL - CMU BACKUP
A506 1 1/2" = 1'-0"





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FITCHBURG EAST
FIRE STATION

2950 SOUTH SYENE ROAD, FITCHBURG, WI

SEH FILE NO. FITCH 139706
ISSUE DATE JANUARY 23, 2018
DESIGN BY TMF
DRAWN BY MZJ
PROJECT MGR TMF

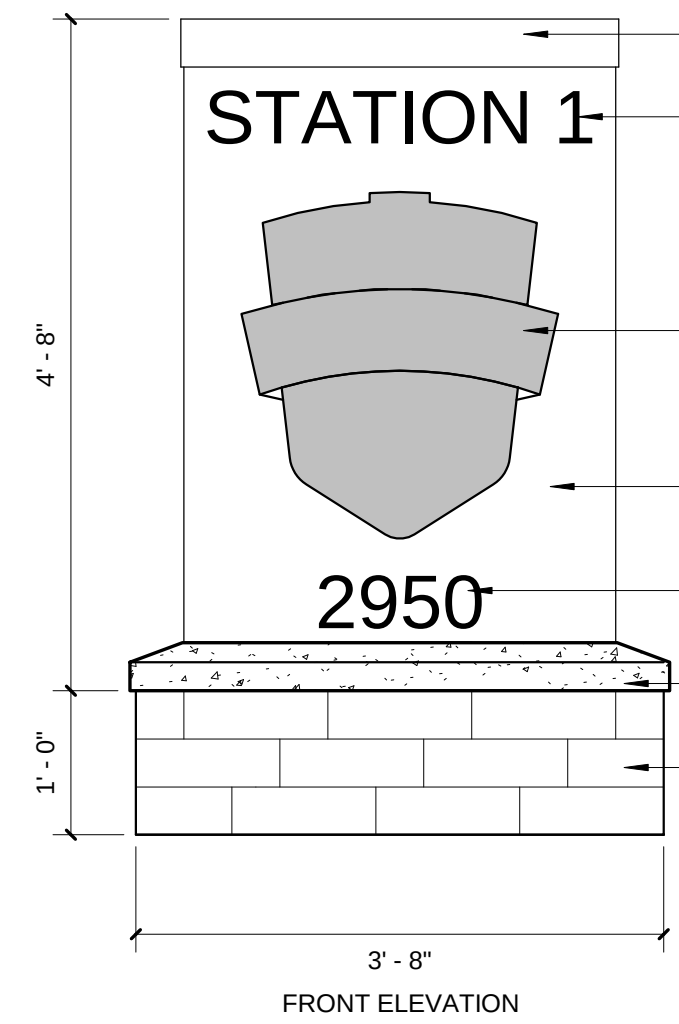
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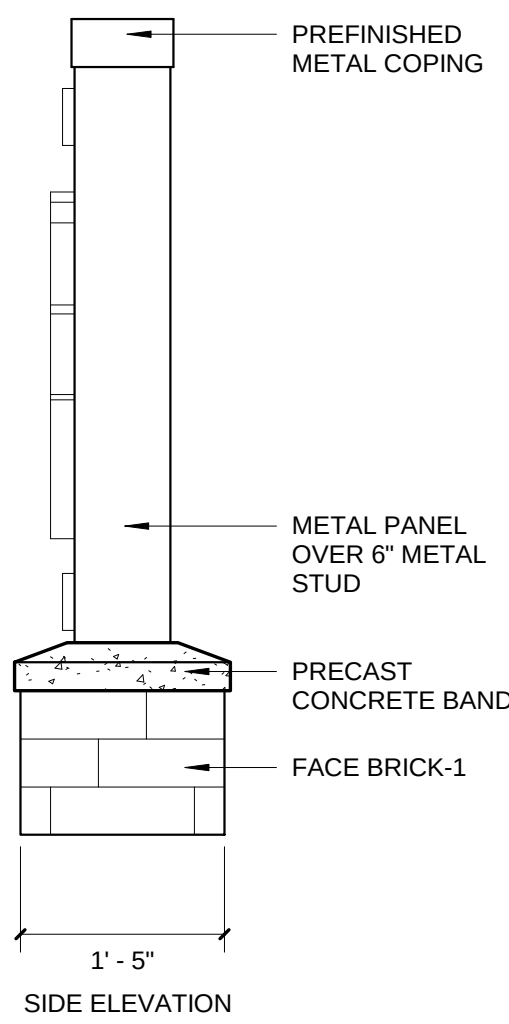
DETAILS

A506

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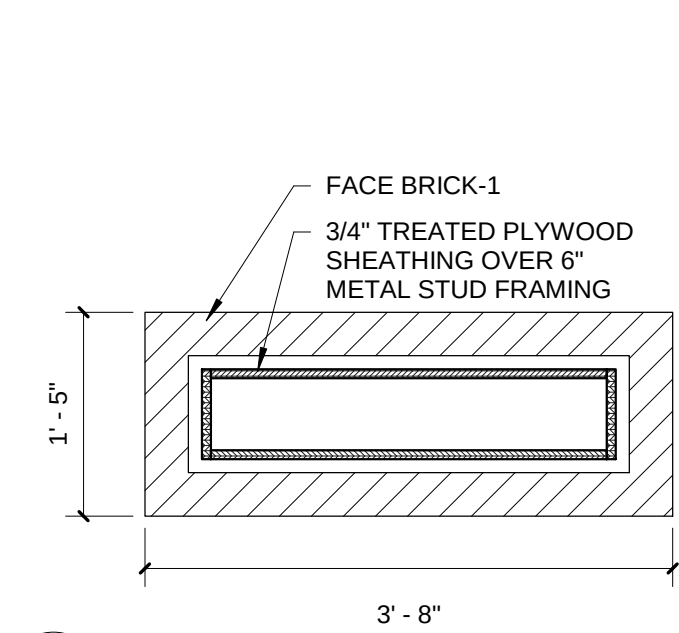


PREFINISHED METAL COPING
RAISED METAL LETTERING, 4 3/4" HIGH, TRADE GOTHIC BOLD
RAISED METAL FULL COLOR PANEL MATCHING FIRE DEPARTMENT PATCH
METAL PANEL OVER 6" METAL STUD
RAISED METAL LETTERING, 4 3/4" HIGH, TRADE GOTHIC BOLD
PRECAST CONCRETE BAND
FACE BRICK-1



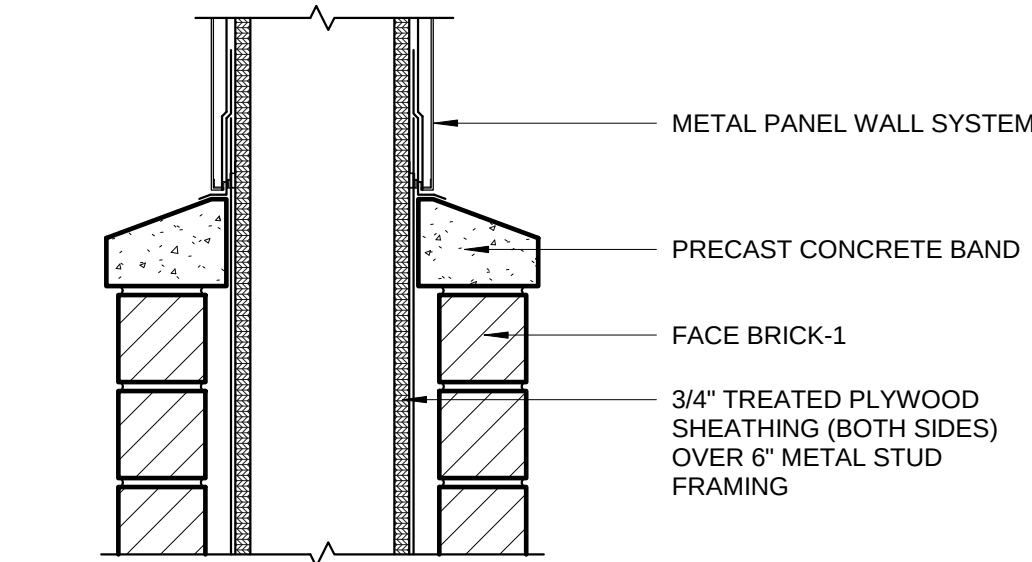
PREFINISHED METAL COPING
METAL PANEL OVER 6" METAL STUD
PRECAST CONCRETE BAND
FACE BRICK-1

1 SIGN ELEVATIONS
3/4" = 1'-0"

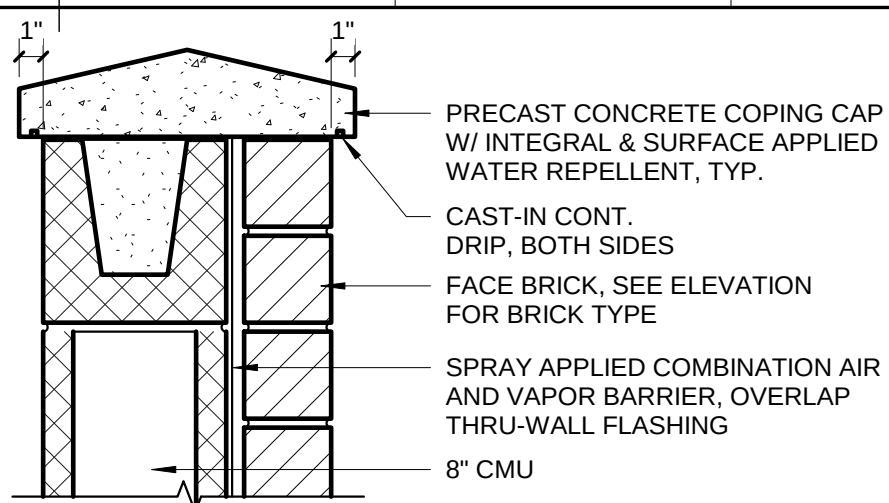


FACE BRICK-1
3/4" TREATED PLYWOOD SHEATHING OVER 6" METAL STUD FRAMING

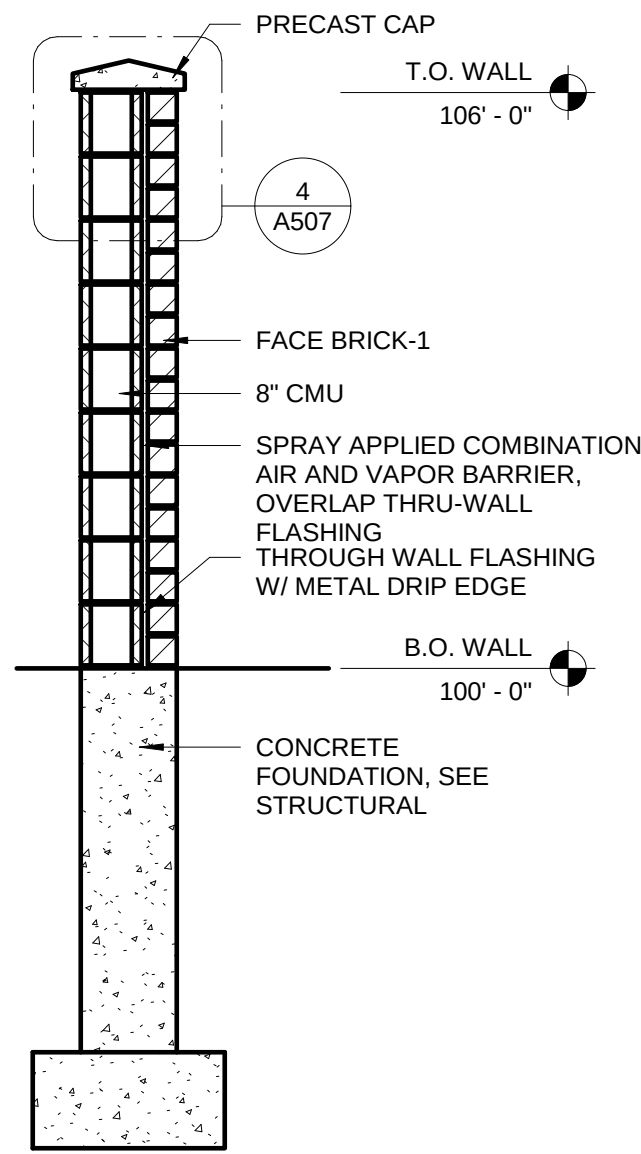
2 SIGN PLAN
3/4" = 1'-0"



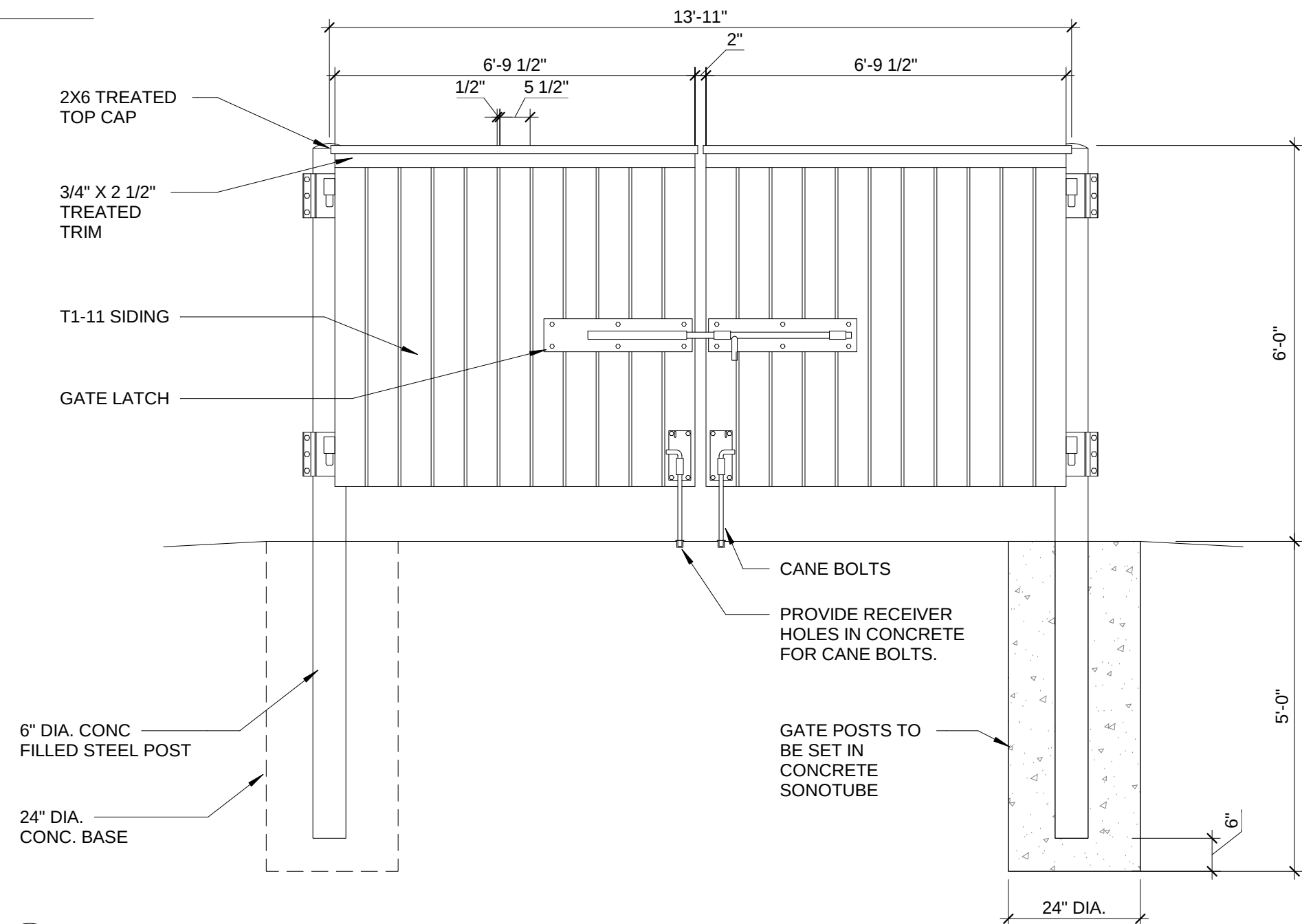
3 SIGN SECTION
1 1/2" = 1'-0"



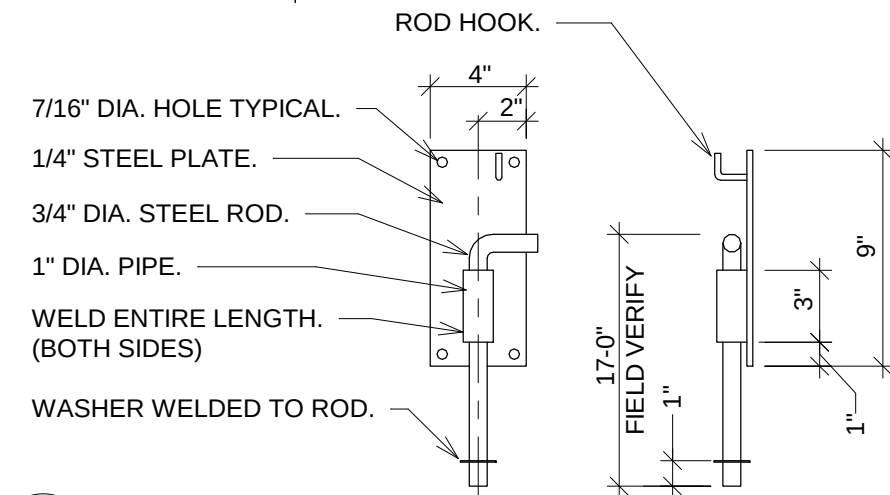
4 TOP OF WALL DETAIL
1 1/2" = 1'-0"



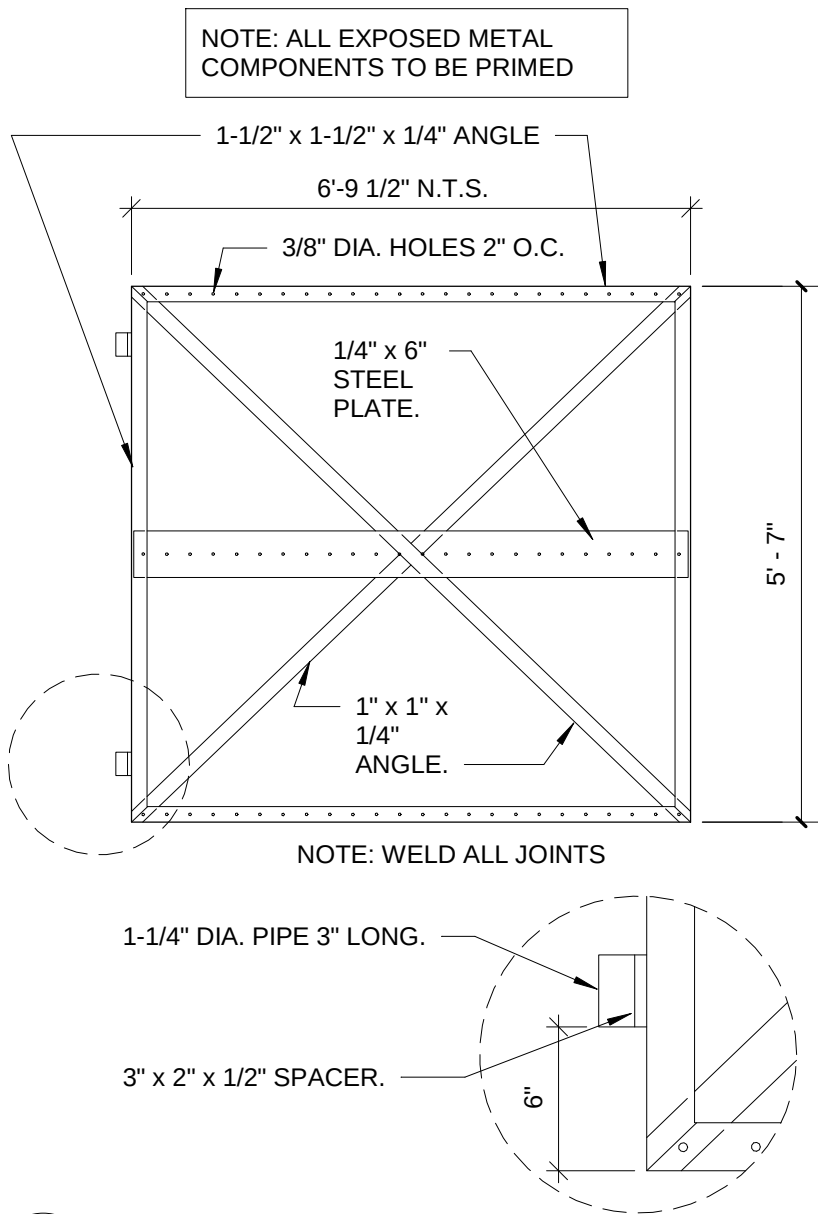
5 DUMPSTER SECTION
1/2" = 1'-0"



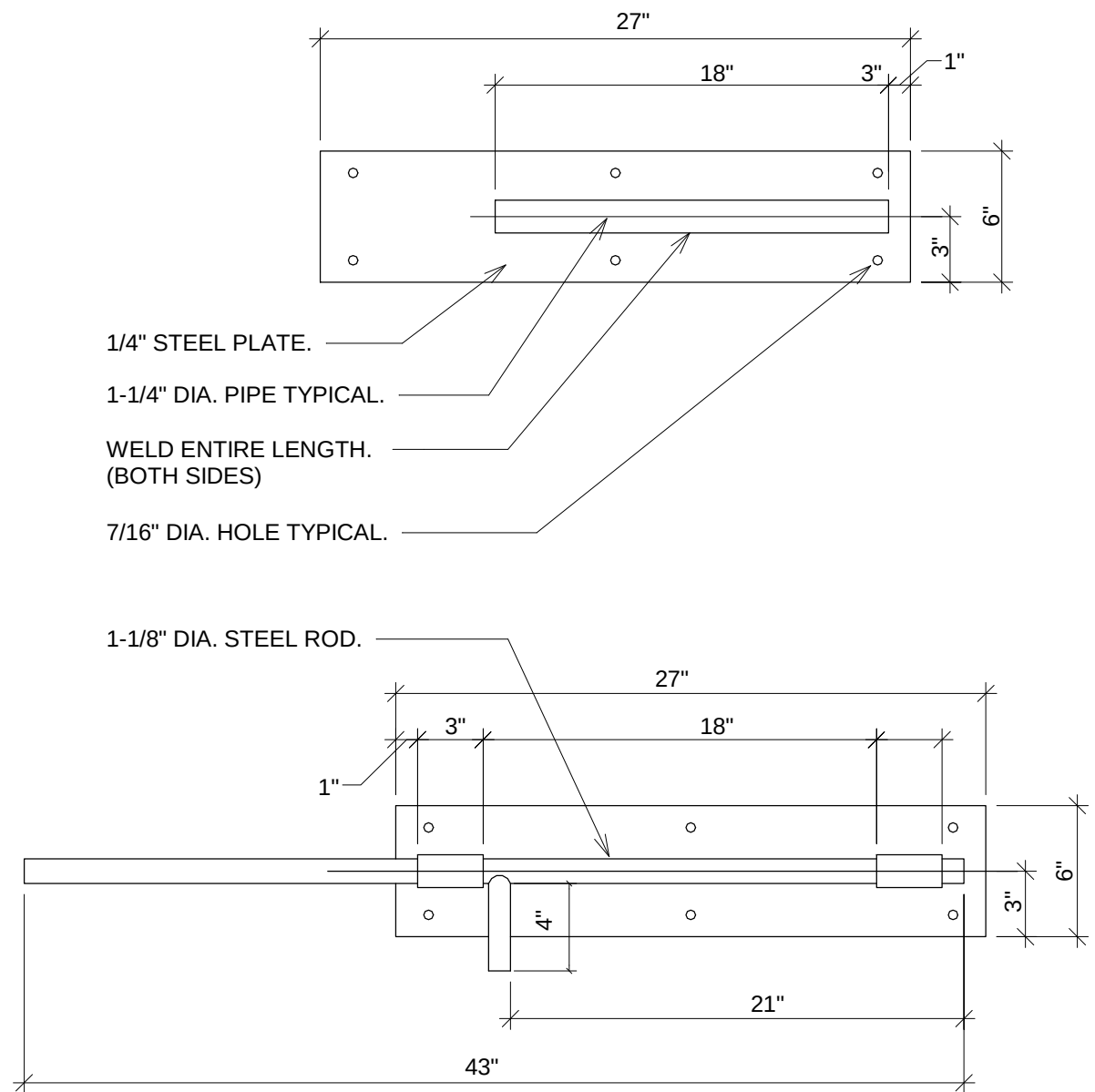
6 FRONT ELEVATION
1/2" = 1'-0"



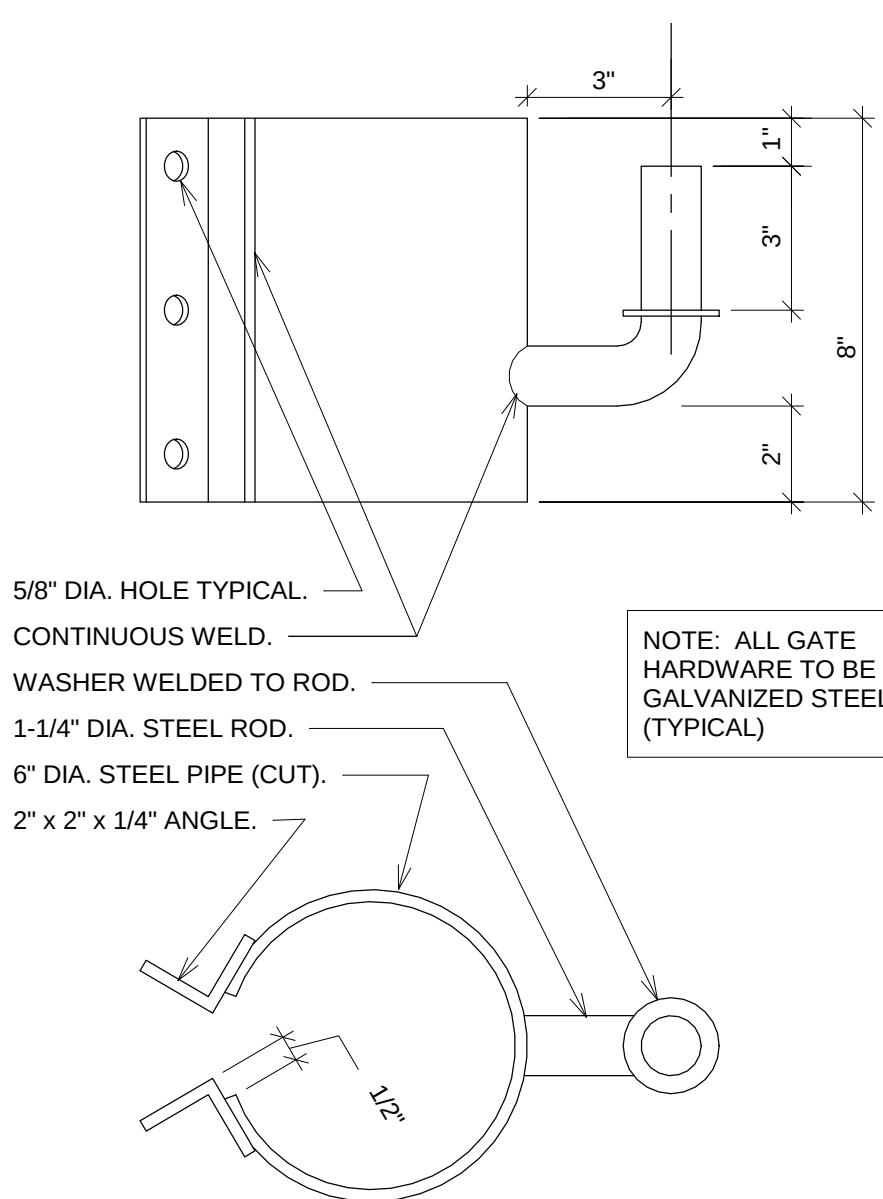
7 CANE BOLT DETAIL
1 1/2" = 1'-0"



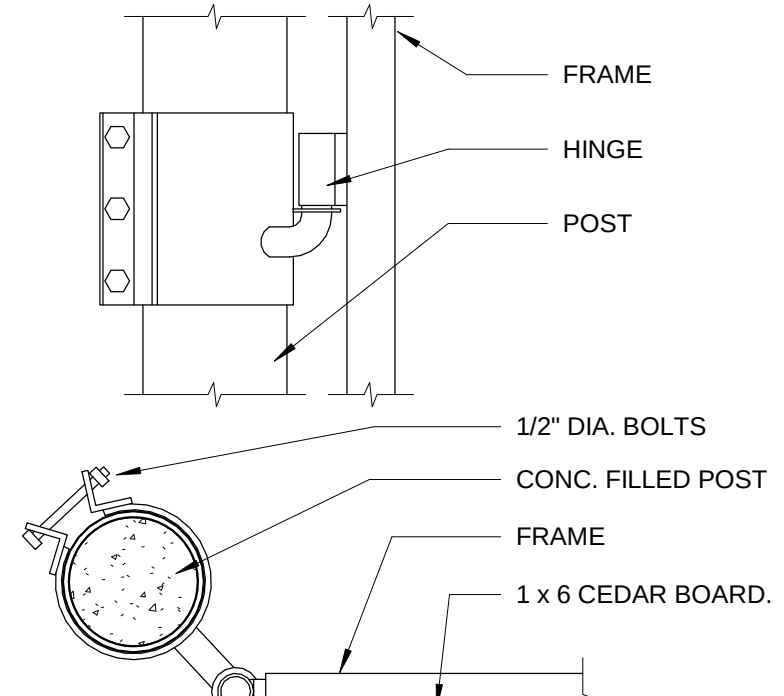
8 GATE FRAME ELEVATION
1/2" = 1'-0"



9 LATCH DETAIL
1 1/2" = 1'-0"



10 HINGE DETAIL
3" = 1'-0"



11 HINGE CONNECTION
1 1/2" = 1'-0"



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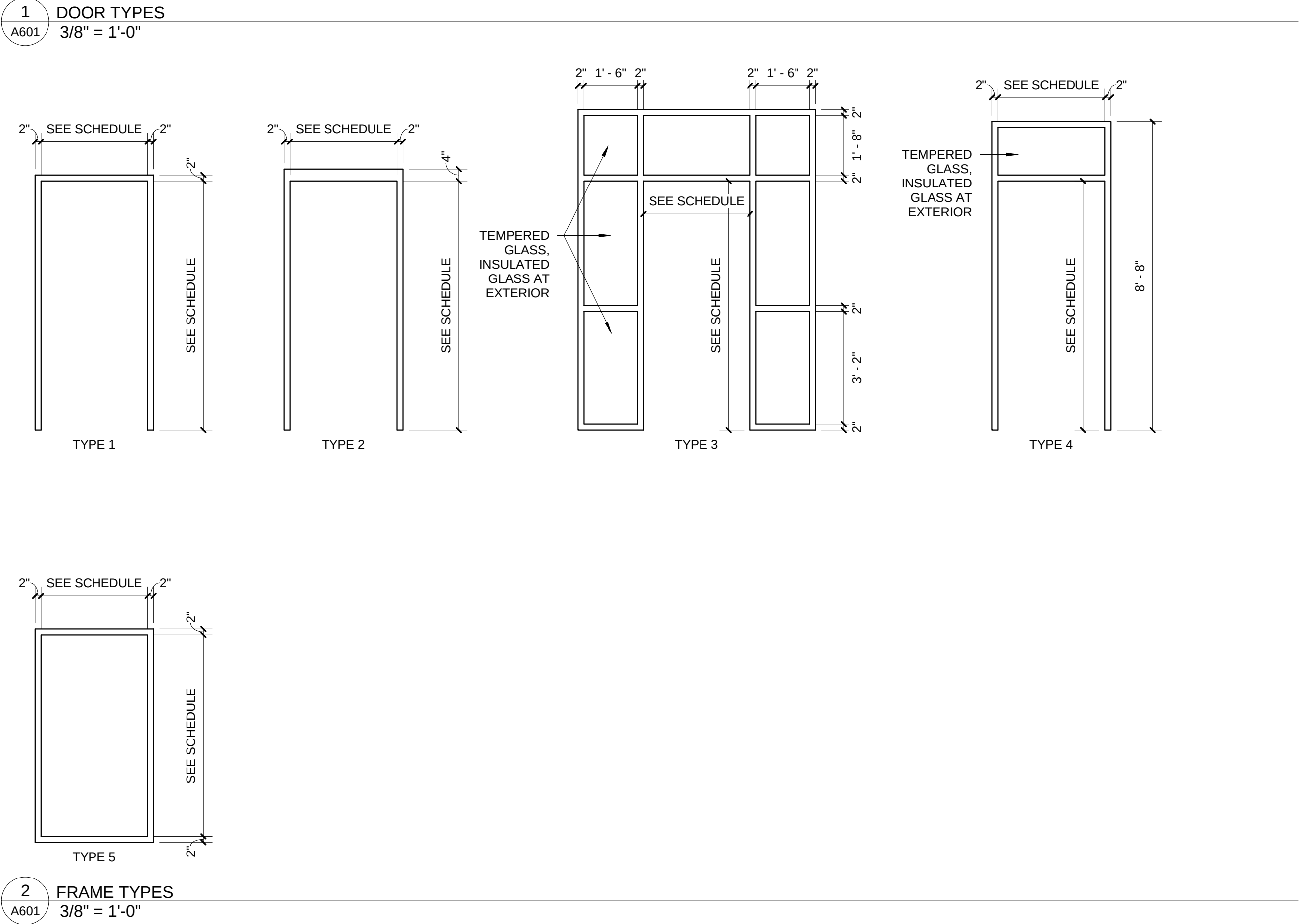
FITCHBURG EAST
FIRE STATION
2950 SOUTH SYENE ROAD, FITCHBURG, WI

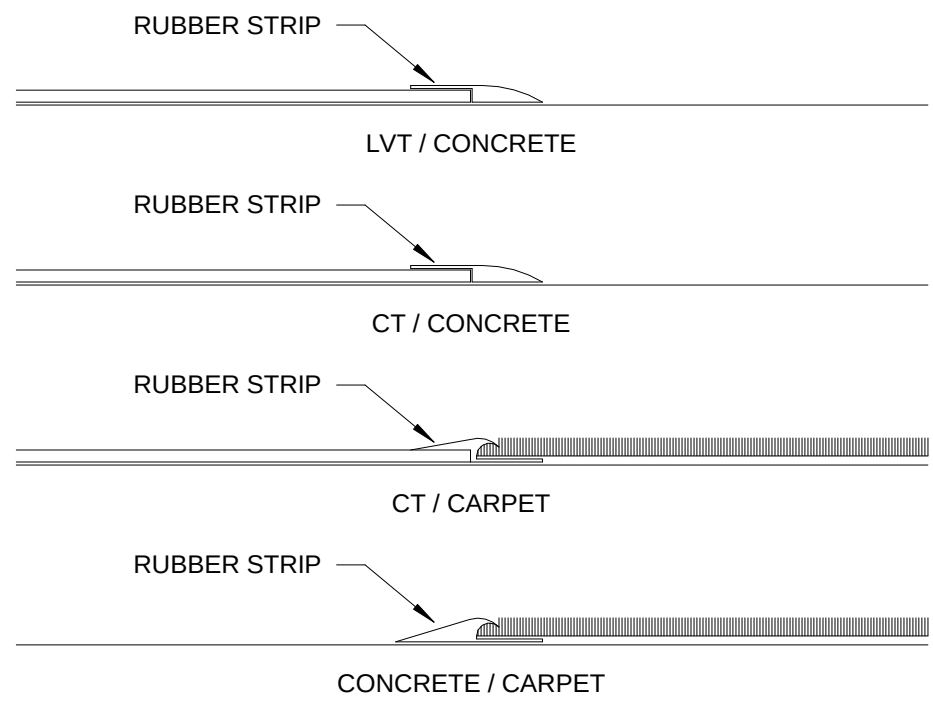
SEH FILE NO. FITCH 139706
ISSUE DATE JANUARY 23, 2018
DESIGN BY TMF
DRAWN BY MJZ
PROJECT MGR TMF
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SHEET CONTENTS
DETAILS

A507

DOOR SCHEDULE COMMENTS LEGEND	
1:	DOOR TO BE PAINTED FOLLOWING THE INSTALLATION OF THE BI-FOLD DOORS IN ORDER TO ENSURE EXACT FINISH MATCH
2:	DOOR TO BE PAINTED TO MATCH THE COLOR OF THE FIRE DEPARTMENT APPARATUS



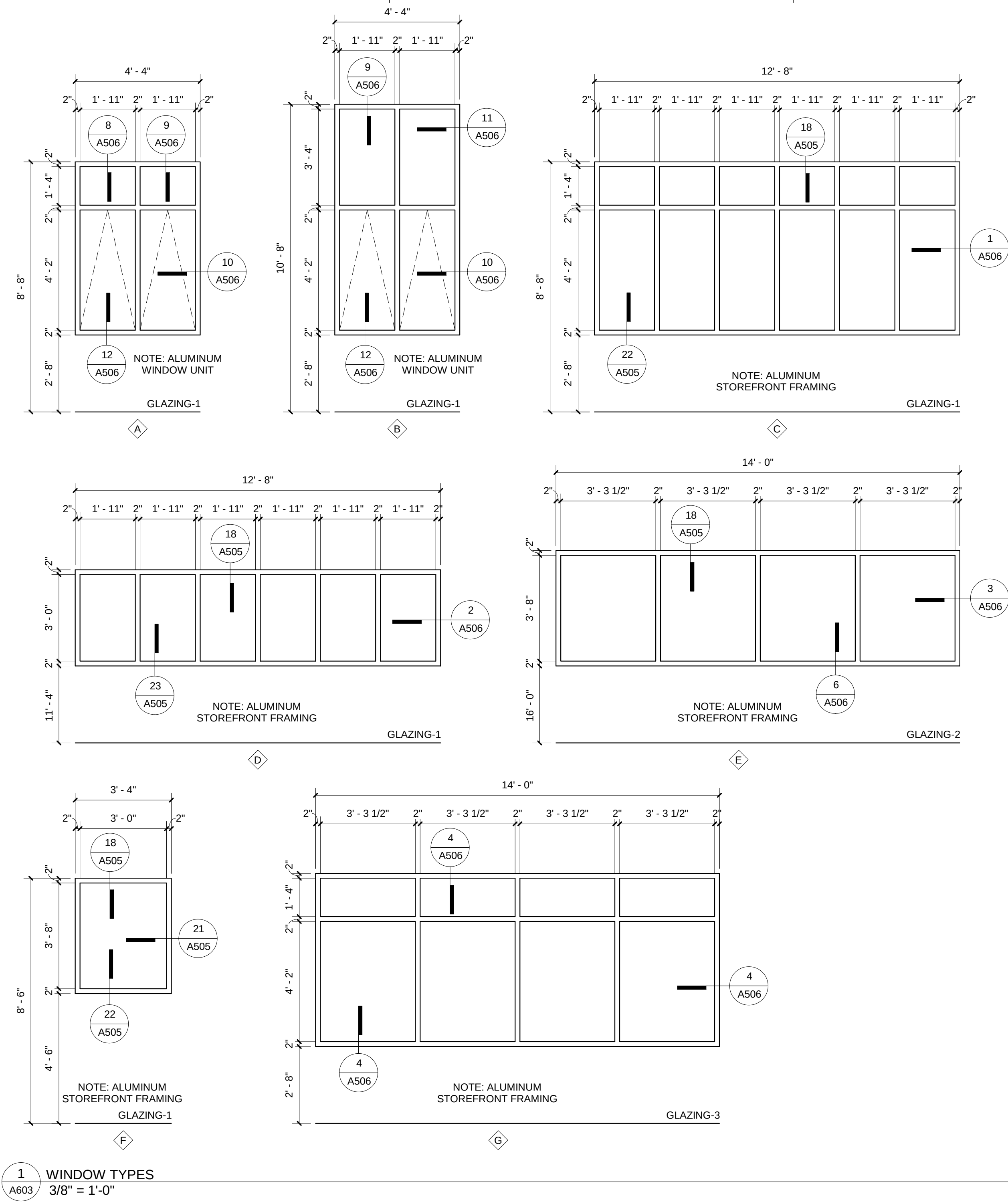


1	FLOOR TRANSITIONS
A602	3" = 1'-0"

ROOM FINISH SCHEDULE LEGEND	
<u>PAINT</u> PT-1: SHERWIN-WILLIAMS, SW 7037, BALANCED BEIGE (WALLS) PT-2: SHERWIN-WILLIAMS, SW 7674, PEPPERCORN (ACCENT WALLS) PT-3: SHERWIN-WILLIAMS, SW 7586, STOLEN KISS (ACCENT WALLS) PT-4: SHERWIN-WILLIAMS, SW xxxx, (CEILINGS / STRUCTURE) PT-5: SHERWIN-WILLIAMS, SW 7504, KEYSTONE GRAY (DOOR FRAMES, INTERIOR) <u>CARPET</u> CPT-1: TANDUS, RIVET 04219, HIGHWIRE 54203, 24x24 TILE, QUARTER TURN CPT-2: BENTLEY, TROUBADOUR 4TOT5, FIREFLY 400338, 18x36 TILE, BRICK <u>SOLID SURFACE COUNTERTOPS / SILLS</u> SS-1: CORIAN, LAVA ROCK <u>ACOUSTIC CEILING TILE</u> ACT-1: TILE - MINERAL FIBER, GRID-15/16" DONN DX/DXL ACT-2: TILE - VINYL COATED GYPSUM BOARD, GRID-15/16" DONN DX/DXL <u>PLASTIC LAMINATE</u> PL-1: NEVAMAR, ARMORED PROTECTION, SANDCASTLE, S2093T TEXTURED PL-2: NEVAMAR, ARMORED PROTECTION, JETT BLACK S6053T TEXTURED	<u>CERAMIC TILE</u> CT-1: DALTILE, FABRIQUE, GRIS LINEN P690, 4x24 CT-2: CROSSVILLE, COLOR BLOX, SANDBOX A1101, 12x24 CT-3: CROSSVILLE, COLOR BLOX, SANDBOX A1101, 6x12 CT-4: CROSSVILLE, GROOVE GLASS, GG32 TWIST, GG20 SHIMMY, GG21 SALSA, 2x8 CT-5: CROSSVILLE, COLOR BLOX, SANDBOX A1101, 3x3 <u>CONCRETE FLOORING</u> CONC-1: POLISHED CONCRETE CONC-2: BURNISHED CONCRETE CONC-3: SEALED CONCRETE <u>RESILIENT TILE FLOORING</u> LVT-1: ARMSTRONG, NATURAL CREATIONS ARBORART, TP038 ROAN-OAK DRIFTWOOD GRAY <u>RESILIENT VINYL BASE</u> VB-1: JOHNSONITE, 63 BURNT UMBER, STRAIGHT U.N.O. VB-2: JOHNSONITE, 283 TOAST, STRAIGHT U.N.O.

[illegible]

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A603

WINDOW
TYPES

SHEET CONTENTS

FITCHBURG EAST
FIRE STATION

2950 SOUTH SYENE ROAD, FITCHBURG, WI

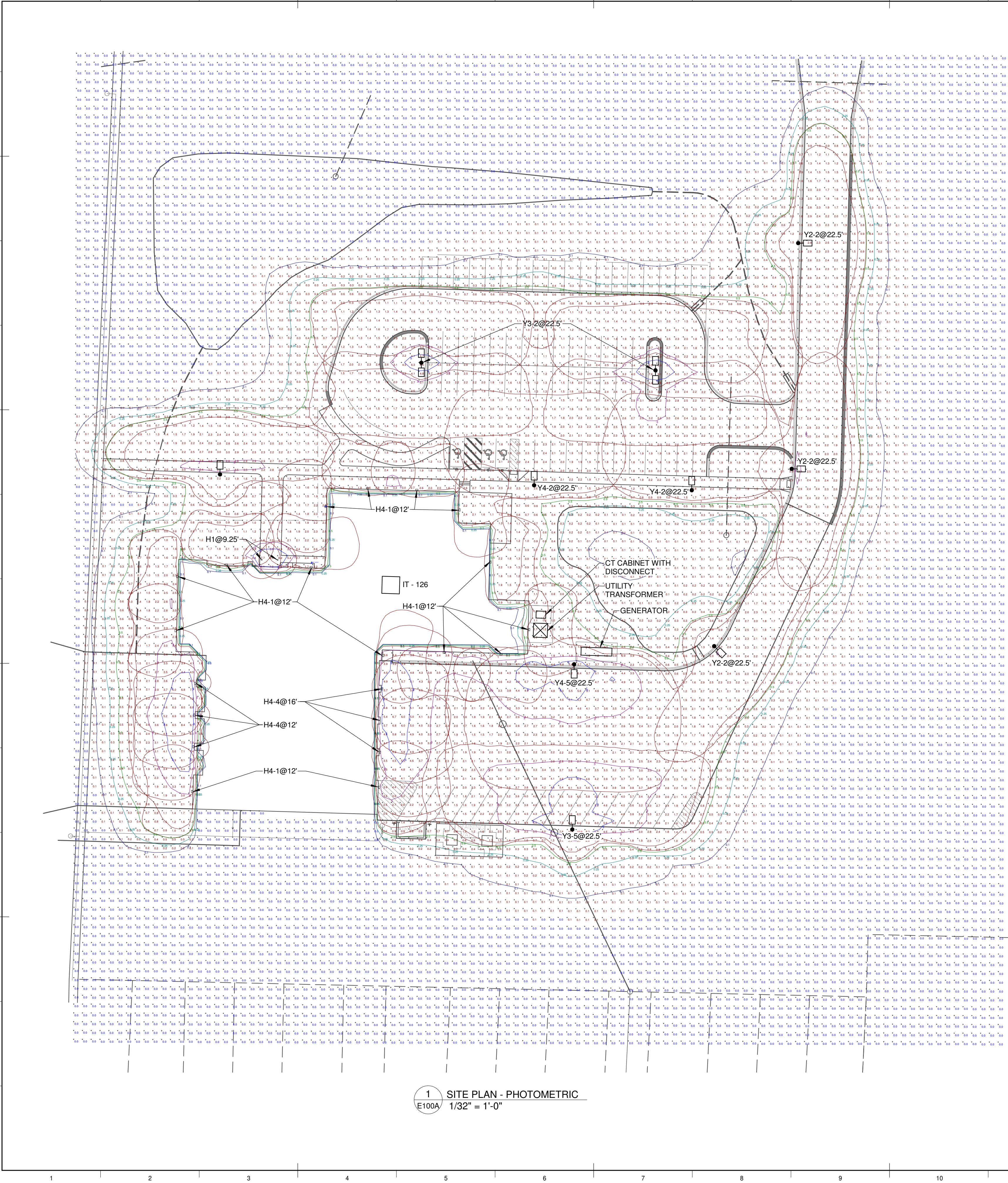
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1 SITE PLAN - PHOTOMETRIC
E100A 1/32" = 1'-0"

Schedule											
Symbol	Label	Quantity	Manufacturer	Catalog Number	Description	Lamp	Number Lamps	Filename	Lumens Per Lamp	Light Loss Factor	Wattage
	H1	2	EATON - PORTFOLIO (FORMER COOPER LIGHTING)	LD6B10D010 EU6B10208040 6LBWH1	PORTFOLIO 6 INCH 60 DEGREE CUTOFF RECESSED DOWNLIGHT WIDE DISTRIBUTION WITH SEMI-SPECULAR CLEAR TRIM WATTAGE D010TR-10.05 W D6010-10.58 W D5L1-10.2 W DMX-10.6 W D1.2-11.8 W DLS-11.1 W DLE-11.39 W	HIGH LUMEN LED ABSOLUTE PHOTOMETRY IS BASED ON CALIBRATION FACTORS CREATED USING LAB LUMEN STANDARDS IN GONIOPHOTOMETER WITH TEST DISTANCE OF 28.75 FEET	1	LD6B10D010 EU6B10208040 6LBWH1.ies	973.3565	0.95	9.9
	H4-1	15	EATON - MCGRAW-EDISON (FORMER COOPER LIGHTING)	IST-AF-350-LED-E1-SL4	IMPACT ELITE LED TRAPEZOID LUMINAIRE LIGHT SQUARE WITH ACCOLED OPTICS-TYPE IV W/SPILL CONTROL	(16) 4000K CCT, 70 CRI LEDs ABSOLUTE PHOTOMETRY IS BASED ON CALIBRATION FACTORS CREATED USING LAB LUMEN STANDARDS IN GONIOPHOTOMETER	16	IST-AF-350-LED-E1-SL4.ies	139	0.95	20.09
	H4-4	6	EATON - MCGRAW-EDISON (FORMER COOPER LIGHTING)	IST-AF-800-LED-E1-SL4	IMPACT ELITE LED TRAPEZOID LUMINAIRE LIGHT SQUARE WITH ACCOLED OPTICS-TYPE IV W/SPILL CONTROL	(16) 4000K CCT, 70 CRI LEDs ABSOLUTE PHOTOMETRY IS BASED ON CALIBRATION FACTORS CREATED USING LAB LUMEN STANDARDS IN GONIOPHOTOMETER	16	IST-AF-800-LED-E1-SL4.ies	286	0.95	43.5
	Y2-2	4	EATON - MCGRAW-EDISON (FORMER COOPER LIGHTING)	GLEON-AF-02-LED-E1-T2-800	GALLEON AREA AND ROADWAY LUMINAIRE (2) 70 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDES EACH AND TYPE II OPTICS Retail, Roadway, Sidewalk, Site, Street, Substation, Security, Corrosion Resistant, Vandal Resistant, Wet Location ABSOLUTE PHOTOMETRY IS BASED ON CALIBRATION FACTORS CREATED USING LAB LUMEN STANDARDS IN GONIOPHOTOMETER WITH TEST DISTANCE OF 28.75 FEET		32	GLEON-AF-02-LED-E1-T2-800.ies	302	0.95	85
	Y3-2	4	EATON - MCGRAW-EDISON (FORMER COOPER LIGHTING)	GLEON-AF-02-LED-E1-SL3-800	GALLEON AREA AND ROADWAY LUMINAIRE (2) 70 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDES EACH AND TYPE II SPILL LIGHT ELIMINATOR OPTICS Retail, Roadway, Sidewalk, Site, Street, Substation, Security, Corrosion Resistant, Vandal Resistant, Wet Location ABSOLUTE PHOTOMETRY IS BASED ON CALIBRATION FACTORS CREATED USING LAB LUMEN STANDARDS IN GONIOPHOTOMETER WITH TEST DISTANCE OF 28.75 FEET		32	GLEON-AF-02-LED-E1-SL3-800.ies	307	0.95	85
	Y3-5	1	EATON - MCGRAW-EDISON (FORMER COOPER LIGHTING)	GLEON-AF-05-LED-E1-SL3-800	GALLEON AREA AND ROADWAY LUMINAIRE (5) 70 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDES EACH AND TYPE II SPILL LIGHT ELIMINATOR OPTICS Retail, Roadway, Sidewalk, Site, Street, Substation, Security, Corrosion Resistant, Vandal Resistant, Wet Location ABSOLUTE PHOTOMETRY IS BASED ON CALIBRATION FACTORS CREATED USING LAB LUMEN STANDARDS IN GONIOPHOTOMETER WITH TEST DISTANCE OF 28.75 FEET		80	GLEON-AF-05-LED-E1-SL3-800.ies	300	0.95	210
	Y4-2	2	EATON - MCGRAW-EDISON (FORMER COOPER LIGHTING)	GLEON-AF-02-LED-E1-SL4-800	GALLEON AREA AND ROADWAY LUMINAIRE (2) 70 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDES EACH AND TYPE IV SPILL LIGHT ELIMINATOR OPTICS Retail, Roadway, Sidewalk, Site, Street, Substation, Security, Corrosion Resistant, Vandal Resistant, Wet Location ABSOLUTE PHOTOMETRY IS BASED ON CALIBRATION FACTORS CREATED USING LAB LUMEN STANDARDS IN GONIOPHOTOMETER WITH TEST DISTANCE OF 28.75 FEET		32	GLEON-AF-02-LED-E1-SL4-800.ies	292	0.95	85
	Y4-5	1	EATON - MCGRAW-EDISON (FORMER COOPER LIGHTING)	GLEON-AF-05-LED-E1-SL4-800	GALLEON AREA AND ROADWAY LUMINAIRE (5) 70 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDES EACH AND TYPE IV SPILL LIGHT ELIMINATOR OPTICS Retail, Roadway, Sidewalk, Site, Street, Substation, Security, Corrosion Resistant, Vandal Resistant, Wet Location ABSOLUTE PHOTOMETRY IS BASED ON CALIBRATION FACTORS CREATED USING LAB LUMEN STANDARDS IN GONIOPHOTOMETER WITH TEST DISTANCE OF 28.75 FEET		80	GLEON-AF-05-LED-E1-SL4-800.ies	286	0.95	210



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920.380.2800 main | 920.908.5165 fax
888.413.4214 toll free | www.sehinc.com

ARCHITECTURAL
& DESIGN
REVIEW

DATE	DESCRIPTION
MAR	

CITY OF FITCHBURG
FITCHBURG EAST
FIRE STATION

2950 SOUTH SYENE ROAD, FITCHBURG, WI

FITCH 139706
JAN 23, 2018
DESIGN BY
DRAWN BY
PROJECT MGR

SEH FILE NO.
ISSUE DATE
DESIGN BY
DRAWN BY
PROJECT MGR

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SHEET CONTENTS
SITE PLAN -
PHOTOMETRIC

E100A

DESCRIPTION

6 inch LED recessed narrow, medium, or wide beam downlight designed for glare free even illumination. Featuring a two-stage diffused reflector system producing smooth distribution with excellent light control and low aperture brightness. Lumen packages range from 1000 to 7000 with color temperatures of 2400K, 2700K, 3000K, 3500K, 4000K, and 5000K. Available with dim-to-warm technology – similar to halogen at full power, the 3000K LED warms smoothly as dimmed to 1850K creating a rich warm glow within the space.

SPECIFICATION FEATURES

Lower Shielding Reflector

Painted die cast aluminum or spun aluminum lower reflector with a lensed upper optical chamber providing superior lumen output with minimal source brightness. Spun reflectors are offered in all Portfolio Alzak® finishes. Available with non-conductive polymer trim. Reflector is retained with two torsion springs holding the flange tight to the finished ceiling surface.

Plaster Frame / Collar

Die cast aluminum 1-1/2" deep collar accommodates ceiling materials up to 2". Universal mounting bracket accepts 1/2" EMT, C channel and bar hangers and adjusts 5" vertically from above and below the ceiling.

Junction Box

Listed for (8) #12 AWG (four in, four out) 90°C conductors and feed thru branch wiring. (4) 1/2" and (2) 3/4" trade size pry outs positioned to allow straight conduit runs. Lever connectors for simple push in wiring.

Thermal

Aluminum heat sink conducts heat away from the LED module for optimal performance and long life.

LED

Chip on board with a multitude of highly efficient white LED's, combined with a high reflectance upper reflector and convex transitional lens produce even distribution with no pixilation. Rated for 50,000 hours at 70% lumen maintenance. Auto resetting, thermally protected, LED's are turned off when safe operating temperatures are exceeded. Color variation within 3-step MacAdam ellipses. Quick disconnect allows for tool-less replacement of LED engine from below ceiling. Available in 80, 90 or 97 CRI. D2W™ – dim-to-warm shifts CCT from 3000K to 1850K as fixture dims mimicking halogen sources.

Driver

Standard 120-277V 0-10V dimming driver provides flicker free dimming from 100% to 1% (offered up to 4000 lumens). Optional 120V leading edge, <1% 0-10V, Fifth Light, DMX or Lutron® Ecosystem. Driver can be serviced from above or through the aperture.

Connected Lighting Systems

WaveLinx tilemount daylight sensor includes control module, sensor and cable allowing use with the comprehensive lighting system.

Catalog #		Type
Project	FITCHBURG EAST FIRE	H1
Comments		Date
Prepared by		

LumaWatt Pro (powered by Enlighted) wireless tile mount sensor and relay accessory enables wireless control using a tile mount sensor accessory.

Distributed low voltage power system combines power, lighting, and controls with ease of installation.

Code Compliance

Thermally protected and cULus listed for wet locations with covered ceiling. IP66 rated when used with IP66 gasket kit accessory. Optional City of Chicago environmental air (CCEA) marking for plenum applications. EMI/RFI emissions per FCC 47CFR Part 18 Class B consumer limits. Non-IC rated - Insulation must be kept 3" from top and sides of housing. IC rated up to 1500 lumens. 5000 lumen and above are marked spacing and must follow spacing requirements. RoHS Compliant. Photometric testing completed in accordance with IES LM 79 and TM-30 standards. LED life testing completed in accordance with LM 80 standards.

Warranty

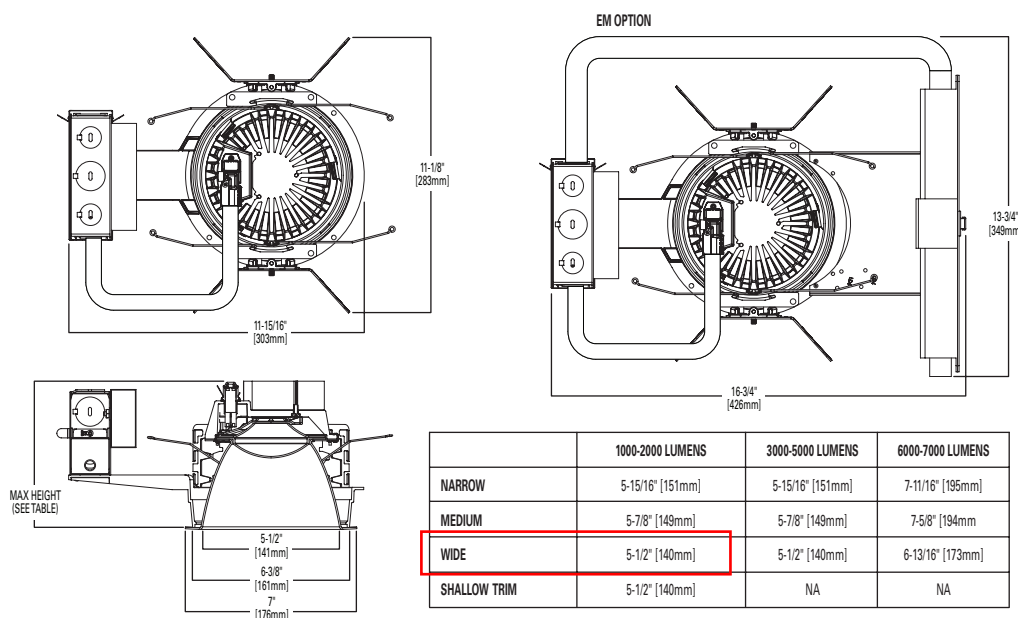
5-year warranty



**LD6B EU6B
6LBW 6LBM
6LBN**

1000 - 7000 lumens LED

Narrow, Medium, or Wide Beam
New Construction



ORDERING INFORMATION

SAMPLE NUMBER: LD6B15D010EMBOD

Housing	Lumens ¹	Voltage	Driver	Options
LD6B =LED Downlight 6" Nominal Aperture LD6BCP =LED Downlight 6" Nominal Aperture, Chicago Plenum	10 =1000 lumens 15 =1500 lumens 20 =2000 lumens 30 =3000 lumens 40 =4000 lumens 50 =5000 lumens ¹⁰ 60 =6000 lumens ¹⁰ 70 =7000 lumens ¹⁰	Blank =120-277V	1000 - 4000 Lumen D010 =0-10V Dimming, 1% to 100%, 120V-277V D010TR =0-10V or Line Voltage Dimming, 5% to 100%, 120V-277V DE010 =0-10V Dimming, 0% to 100%, 120V-277V D5LT =Fifth Light® (DALI) Dimming, 0% to 100%, 120V-277V DMX =DMX Dimming, 0% to 100%, 120V-277V ¹⁴ DL2 =Lutron® Hi-Lume Forward Phase Dimming, 1% to 100%, 120V Only DL3 =Lutron® Hi-Lume 3 Wire Dimming, 1% to 100%, 120V-277V DLE =Lutron Ecosystem dimming 1% to 100%, 120V-277V 5000, 6000, and 7000 Lumen D010TE =0-10V 1% or Trailing Edge, 10% to 100%, 120V-277V (120V Only for Trailing Edge Dimming) 1000 - 3000 Lumen DLV =Low voltage dimming driver (1-100%) for use with DLVP system (3000 lumen and below) ^{3,15}	EMBOD =Bodine® Emergency Module with Remote Test Switch ³ EM7 =7W Emergency Module with Remote Test Switch ^{3,4} EM14 =14W Emergency Module with Remote Test Switch ^{3,4} IEMBOD =Bodine® Emergency Module with Integral Test Switch ³ IEM7 =7W Emergency Module with Integral Test Switch ^{3,4} IEM14 =14W Emergency Module with Integral Test Switch ^{3,4} EMV7 =7W Low Voltage Emergency Module with Remote Test Switch ^{3,4} EMV14 =14W Low Voltage Emergency Module with Remote Test Switch ^{3,4} IEMV7 =7W Low Voltage Emergency Module with Integral Test Switch ^{3,4} IEMV14 =14W Low Voltage Emergency Module with Integral Test Switch ^{3,4} SWPD1 =Factory installed WaveLinx tilemount daylight sensor (includes control module, sensor, cable, and tile mount) ¹⁵ LWTPD1 =Factory installed LumaWatt Pro wireless sensor kit ¹⁵

SAMPLE NUMBER: EU6B10208035

Power Module	Lumen Levels ¹	CRI	Color	Options
EU6B =6" Universal LED Module	1020 =1000, 1500, 2000 lumens 3050 =3000, 4000, 5000 lumens 6070 =6000, 7000 lumens 1015IC =1000, 1500 lumen IC rated	80 =80 CRI Minimum 90 =90 CRI Minimum 97 =97 CRI Minimum	80 CRI 27 =2700K 30 =3000K 35 =3500K 40 =4000K 50 =5000K	90 CRI 24 =2400K 27 =2700K 30 =3000K 35 =3500K 40 =4000K 50 =5000K
Dim 2 Warm 109030D2W =1000 lumen, 90 CRI, Dim 2 Warm, IC rated 159030D2W =1500 lumen, 90 CRI, Dim 2 Warm, IC rated 209030D2W =2000 lumen, 90 CRI, Dim 2 Warm				

SAMPLE NUMBER: 6LBM1LE

Trim	Distribution ⁵	Flange	Finish	Options
6LB =6" LED	N =Narrow (30° Beam), Spun Aluminum M =Medium (50° Beam), Spun Aluminum W =Wide (75° Beam), Spun Aluminum S =Shallow (75° Beam), Spun Aluminum ¹² PS =Plastic Shallow (75° Beam), Injection Molded white ^{11, 12} CS =Cast Shallow (75° Beam), Die Cast Aluminum ¹² BA =Baffle (50° Beam), Spun Aluminum ⁷	0 =White Polymer Trim Ring 1 =Self-flanged ¹³ 2 =White Painted Self-flanged	LI =Specular Clear ⁹ H =Semi-Specular Clear ⁹ WMH =Warm Haze ⁹ WH =Wheat ⁹ GPH =Graphite Haze ⁹ B =Specular Black ⁹ MW =Matte White MB =Matte Black ⁸ MMS =Matte Metallic Silver ⁸	E =Integral Emergency Test Switch Hole ⁶

Accessories

HSA6=Slope Adapter for 6" Aperture Housings, Specify Slope**TRM6**=Metal Trim Ring, Specify Color²**PRR6**=Rimless Trim Ring for Flush Mount²**LGSKT6IP66**=IP66 Gasket Kit**DT6**=Deco Trim²

Bar Hangers

HB26=C-channel Bar Hanger, 26" Long, Pair**HB50**=C-channel Bar Hanger, 50" Long, Pair**RMB22**=Wood Joist Bar Hanger, 22" Long, Pair

Transformers

H347=347 to 120V Step Down Transformer, 75VA**H347200**=347 to 120V Step Down Transformer, 200VA

Connected Lighting Systems

PORLWTPD1=LumaWatt Pro wireless sensor kit (0-10V only) field installed¹⁵**TMSWPD1**=WaveLinx tilemount daylight sensor (includes control module, sensor, cable and tile mount) field installed¹⁵

Notes:

- Nominal Lumens will vary depending on selected color, driver and reflector finish.
- Order trim with polymer trim ring (Consult specification sheet for color ordering information and options).
- Not available with Chicago Plenum.
- ULus listed only
- Beam angles are nominal with LI finish trims.
- Only available with Narrow and Medium Spun Aluminum trims. Required for use with all IEMBOD, IEM7, and IEM14 housings. Requires above ceiling access with wide beam trim.
- Only available with Matte White and Matte Black Finishes.
- Available only on CS distributions.
- Not available on PS, CS or BA distributions.
- Product is marked spacing and must be installed with the following minimum spacing.
 - Center to center of adjacent luminaires: 36"
 - Center of luminaire to side of building member: 18"
 - Minimum overhead: 1/2"
 - Not available with CS or PS trims
- PS available in self-flanged MW finish only.
- Offered up to 2000 lumens
- Flange is the same finish as the reflector
- DMX fixtures default to full on upon loss of DMX signal.
- Refer to system specifications for additional information, features, and benefits. Order either factory installed option or accessory. Use with 0-10V driver.

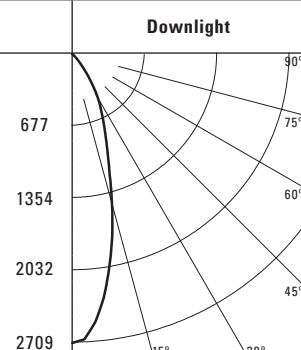
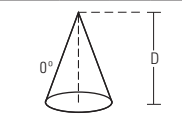
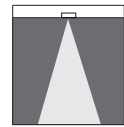
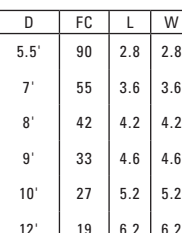
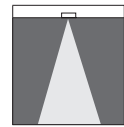
ENERGY

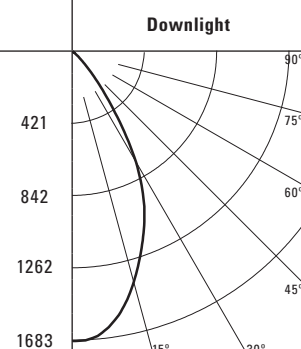
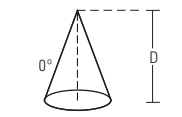
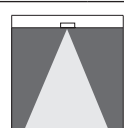
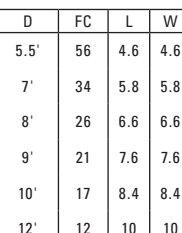
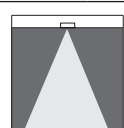
ENERGY DATA
Sound Rating: Class A standards
(Values at non-dimming line voltage)
Minimum Starting Temperature: -30°C (-22°F)
EMI/RFI: FCC Title 47 CFR, Part 15, Class B (Consumer)
Input Voltage: UNV (120V - 277V)
Power Factor: >0.90 (at nominal input 120-277 VAC & 100% of Rated Output Power)
Input Frequency: 50/60Hz

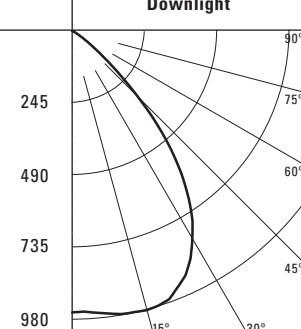
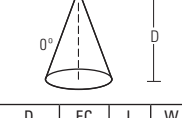
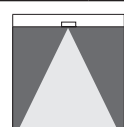
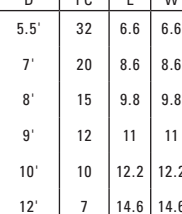
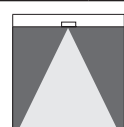
1000 Lumen D010		1500 Lumen D010	
Input Power: 11W	THD: <14%	Input Power: 15.5W	THD: <13%
120V Input Current: 0.09A	277V Input Current: 0.04A	120V Input Current: 0.13A	277V Input Current: 0.06A
2000 Lumen D010		3000 Lumen D010	
Input Power: 21.2W	THD: <9%	Input Power: 27.6W	THD: <10%
120V Input Current: 0.18A	277V Input Current: 0.08A	120V Input Current: 0.23A	277V Input Current: 0.10A
4000 Lumen D010		5000 Lumen D010TE	
Input Power: 41.6W	THD: <13%	Input Power: 57.9W	THD: <14%
120V Input Current: 0.35A	277V Input Current: 0.15A	120V Input Current: 0.49A	277V Input Current: 0.22A
6000 Lumen D010TE		7000 Lumen D010TE	
Input Power: 59.7W	THD: <14%	Input Power: 75.8W	THD: <13%
120V Input Current: 0.50A	277V Input Current: 0.22A	120V Input Current: 0.64A	277V Input Current: 0.29A

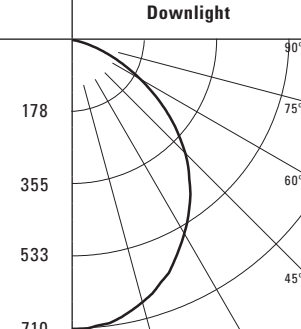
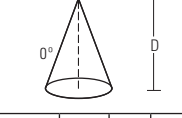
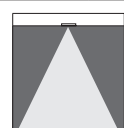
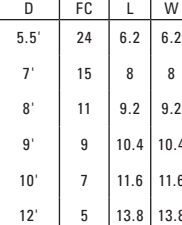
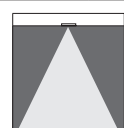
Lumens	120V		277V	
	Inrush (A)	Duration (ms)	Inrush (A)	Duration (ms)
1000 Lumen D010	1.02	0.041	2.18	0.021
1500 Lumen D010	1.02	0.042	2.24	0.064
2000 Lumen D010	1.02	0.077	2.43	0.027
3000 Lumen D010	1.15	0.067	3.26	0.027
4000 Lumen D010	1.2	0.088	3.9	0.03
5000 Lumen D010TE	5.1	0.132	10.2	0.153
6000 Lumen D010TE	5.4	0.123	10.8	0.154
7000 Lumen D010TE	4.9	0.13	9.8	0.156

PHOTOMETRY

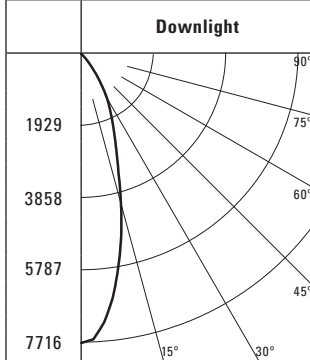
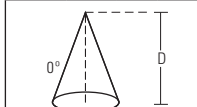
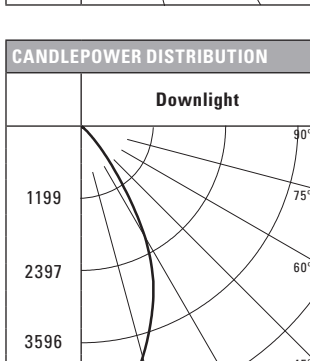
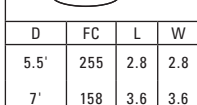
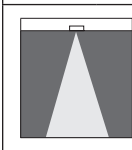
NARROW (30° BEAM)		CANDLEPOWER DISTRIBUTION		CONE OF LIGHT		CANDELA TABLE		ZONAL LUMEN SUMMARY			LUMINANCE					
Test Number	P201217					Degrees Vertical	Candela	Zone	Lumens	% Fixture	Average Candela Degrees	Average 0° Luminance				
Housing	LD6B15D010					0	2709	0-30	960	80.4	45	677				
Module	EU6B10208035					5	2526	0-40	1149	96.2	55	76				
Trim	6LBN1LI					15	1468	0-60	1193	99.9	65	26				
Lumens	1195					25	708	0-90	1195	100	75	0				
Efficacy	83.6 Lm/W					35	299	90-180	0	0	85	0				
SC	0.53					45	44	0-180	1195	100						
						55	4									
						65	1									
						75	0									
						85	0									
						90	0									

MEDIUM (50° BEAM)		CANDLEPOWER DISTRIBUTION		CONE OF LIGHT				CANDELA TABLE		ZONAL LUMEN SUMMARY			LUMINANCE					
Test Number	P201215							Degrees Vertical	Candela	Zone	Lumens	% Fixture	Average Candela Degrees	Average 0° Luminance				
Housing	LD6B15D010							0	1683	0-30	990	73.6	45	1159				
Module	EU6B10208035							5	1661	0-40	1265	94	55	130				
Trim	6LBM1LI							15	1386	0-60	1341	99.7	65	87				
Lumens	1345							25	993	0-90	1345	100	75	71				
Efficacy	94.1 Lm/W							35	430	90-180	0	0	85	0				
SC	0.85							45	76	0-180	1345	100						
								55	7									
								65	3									
								75	2									
								85	0									
								90	0									

WIDE (75° BEAM)		CANDLEPOWER DISTRIBUTION		CONE OF LIGHT		CANDELA TABLE		ZONAL LUMEN SUMMARY			LUMINANCE				
Test Number	P201213					Degrees Vertical	Candela	Zone	Lumens	% Fixture	Average Candela Degrees	Average 0° Luminance			
Housing	LD6B15D010					0	963	0-30	785	51.7	45	4835			
Module	EU6B10208035					5	963	0-40	1207	79.5	55	1055			
Trim	6LBW1LI					15	976	0-60	1510	99.4	65	151			
Lumens	1519					25	913	0-90	1519	100	75	84			
Efficacy	106.2 Lm/W					35	687	90-180	0	0	85	0			
SC	1.23					45	316	0-180	1519	100					
						55	56								
						65	6								
						75	2								
						85	0								
						90	0								

SHALLOW (75° BEAM)		CANDLEPOWER DISTRIBUTION		CONE OF LIGHT				CANDELA TABLE		ZONAL LUMEN SUMMARY			LUMINANCE					
Test Number	P201212							Degrees Vertical	Candela	Zone	Lumens	% Fixture	Average Candela Degrees	Average 0° Luminance				
Housing	LD6B15D010							0	710	0-30	529	34.2	45	36260				
Module	EU6B10208035							5	704	0-40	843	54.5	55	29687				
Trim	6LBCS1MMS							15	666	0-60	1377	89	65	20068				
Lumens	1546							25	596	0-90	1546	100	75	8318				
Efficacy	110.4 Lm/W							35	502	90-180	0	0	85	749				
SC	1.16							45	393	0-180	1546	100						
								55	261									
								65	130									
								75	33									
								85	1									
								90	0									

PHOTOMETRY

NARROW (30° BEAM)		CANDLEPOWER DISTRIBUTION		CONE OF LIGHT		CANDELA TABLE		ZONAL LUMEN SUMMARY			LUMINANCE					
Test Number	P201218					Degrees Vertical	Candela	Zone	Lumens	% Fixture	Average Candela Degrees	Average 0° Luminance				
Housing	LD6B40D010					0	7716	0-30	2735	80.4	45	1928				
Module	EU6B30508035					5	7196	0-40	3274	96.2	55	215				
Trim	6LBN1LI					15	4183	0-60	3399	99.9	65	74				
Lumens	3404					25	2017	0-90	3404	100	75	0				
Efficacy	81.4 Lm/W					35	853	90-180	0	0	85	0				
SC	0.53					45	126	0-180	3404	100						
						55	11									
						65	3									
						75	0									
						85	0									
						90	0									

DESCRIPTION

The Impact Elite family of wall luminaires is the ideal complement to site design. Incorporating modular LightSquares technology, the Impact Elite luminaire provides outstanding uniformity and energy-conscious illumination. Combined with a rugged construction, the Impact Elite luminaire is the ideal facade and security luminaire for zones surrounding schools, office complexes, apartments and recreational facilities. UL/cUL listed for wet locations.

SPECIFICATION FEATURES

Construction

Heavy-wall, die-cast aluminum housing and removable hinged door frame for precise tolerance control and repeatability. Hinged door inset for clean mating with housing surface and secured via two captive fasteners. Optional tamper-resistant Torx™ head fasteners offer vandal resistant access to the electrical chamber.

Optics

Choice of 10 patented, high-efficiency AccuLED Optics™ distributions. Optics are precisely designed to shape the light output, maximizing efficiency and application spacing. AccuLED Optics technology creates consistent distributions with the scalability to meet customized application requirements. Offered Standard in 4000K (+/- 275K) CCT and minimum 70 CRI. Optional 3000K, 5000K and 5700K CCT.

Electrical

LED drivers mount to die-cast aluminum back housing for optimal heat sinking, operation efficacy, and prolonged life. Standard drivers feature electronic universal voltage (120-277V 50/60Hz), 347V 60Hz or 480V 60Hz operation, greater than 0.9 power factor, less than 20% harmonic distortion, and are suitable for operation in -40°C to 40°C ambient environments. All fixtures are shipped standard with 10kV/10kA common – and differential – mode surge protection. LightSquares feature an IP66 enclosure rating and maintain greater than 90% lumen maintenance at 60,000 hours per IESNA TM-21. Emergency egress options for -20°C ambient environments and occupancy sensor available.

Mounting

Gasketed and zinc plated rigid steel mounting attachment fits directly to 4" j-box or wall with the Impact Elite "Hook-N-Lock" mechanism for quick installation. Secured with two captive corrosion resistant black oxide coated allen head set screws concealed but accessible from bottom of fixture.

Finish

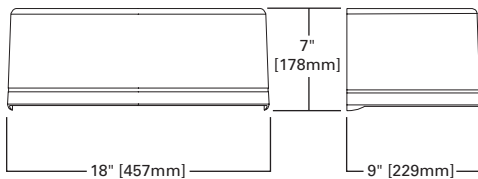
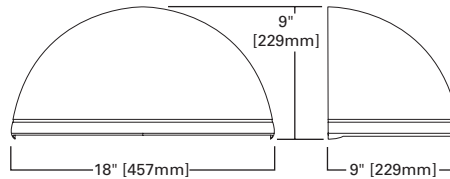
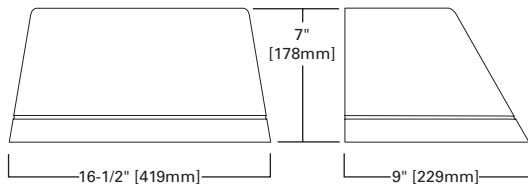
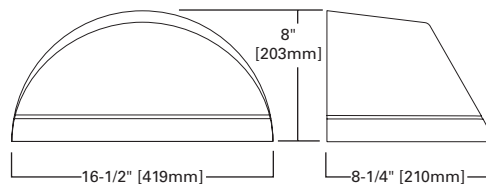
Cast components finished in a five-stage super TGIC polyester powder coat paint, 2.5 mil nominal thickness for superior protection against fade and wear. Standard colors include black, bronze, grey, white, dark platinum and graphite metallic. RAL and custom color matches available. Consult the McGraw-Edison Architectural Colors brochure for the complete selection.

Warranty

Five-year warranty.



DIMENSIONS

Cylinder**Quarter Sphere****Trapezoid****Wedge**

ISC/ISS/IST/ISW IMPACT ELITE LED

1 LightSquare
Solid State LED

WALL MOUNT LUMINAIRE

CERTIFICATION DATA

UL/cUL Listed
LM79 / LM80 Compliant
IP66 LightSquare
DesignLights Consortium® Qualified*
ISO 9001

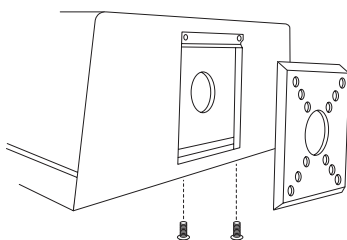
ENERGY DATA

Electronic LED Driver
>0.9 Power Factor
<20% Total Harmonic Distortion
120-277V/50 & 60Hz, 347V/60Hz,
480V/60Hz
-40°C Minimum Temperature
40°C Ambient Temperature Rating

SHIPPING DATA

Approximate Net Weight:
18 lbs. (8 kgs.)

HOOK-N-LOCK MOUNTING



POWER AND LUMENS

1 LightSquare (AF)		Cylinder (ISC) and Quarter Sphere (ISS)						H4-1	Trapezoid (IST) and Wedge (ISW)					H4-4
Drive Current (mA)		350	450	600	800	1000	1200	350	450	600	800	1000	1200	
Power (Watts)	120-277V	20.3	25.5	33.4	43.9	55.1	66.2	20.3	25.5	33.4	43.9	55.1	66.2	
	Current (A)													
Current (A)	120V	0.17	0.22	0.29	0.38	0.48	0.56	0.17	0.22	0.29	0.38	0.48	0.56	
	277V	0.09	0.10	0.13	0.17	0.21	0.25	0.09	0.10	0.13	0.17	0.21	0.25	
Power (Watts)		23.3	28.7	36.6	49.5	60.7	70.1	23.3	28.7	36.6	49.5	60.7	70.1	
Current (A)														
Current (A)	347V	0.07	0.08	0.11	0.15	0.18	0.21	0.07	0.08	0.11	0.15	0.18	0.21	
	480V	0.05	0.06	0.08	0.11	0.13	0.16	0.05	0.06	0.08	0.11	0.13	0.16	
Optics														
T2	Lumens	2,336	2,934	3,827	4,791	5,663	6,444	2,498	3,136	4,091	5,122	6,054	6,889	
	BUG Rating	B1-U0-G1	B1-U0-G1	B1-U0-G1	B1-U0-G1	B1-U0-G1	B1-U0-G1	B1-U1-G2	B1-U1-G2	B1-U1-G2	B1-U1-G2	B1-U1-G2	B1-U1-G2	
T3	Lumens	2,385	2,994	3,906	4,889	5,779	6,577	2,504	3,144	4,101	5,133	6,068	6,905	
	BUG Rating	B1-U0-G1	B1-U0-G1	B1-U0-G1	B1-U0-G1	B1-U0-G1	B1-U0-G1	B1-U1-G2	B1-U1-G2	B1-U1-G2	B1-U1-G2	B1-U1-G2	B1-U1-G2	
T4FT	Lumens	2,360	2,963	3,866	4,839	5,720	6,509	2,530	3,177	4,145	5,188	6,133	6,979	
	BUG Rating	B1-U0-G1	B1-U0-G1	B1-U0-G1	B1-U0-G1	B1-U0-G1	B1-U0-G1	B1-U1-G2	B1-U1-G2	B1-U1-G2	B1-U1-G2	B1-U1-G2	B1-U1-G2	
T4W	Lumens	2,386	2,996	3,908	4,892	5,783	6,581	2,500	3,139	4,095	5,126	6,059	6,895	
	BUG Rating	B1-U0-G1	B1-U0-G1	B1-U0-G1	B1-U0-G1	B1-U0-G1	B1-U0-G1	B1-U1-G2	B1-U1-G2	B1-U1-G2	B1-U1-G2	B1-U1-G2	B1-U1-G2	
SL2	Lumens	2,257	2,834	3,697	4,628	5,470	6,225	2,413	3,030	3,953	4,948	5,849	6,656	
	BUG Rating	B1-U0-G1	B1-U0-G1	B1-U0-G1	B1-U0-G1	B1-U0-G1	B1-U0-G1	B1-U1-G2	B1-U1-G2	B1-U1-G2	B1-U1-G2	B1-U1-G2	B1-U1-G2	
SL3	Lumens	2,220	2,787	3,636	4,552	5,380	6,122	2,365	2,970	3,874	4,849	5,732	6,523	
	BUG Rating	B1-U0-G1	B1-U0-G1	B1-U0-G1	B1-U0-G1	B1-U0-G1	B1-U0-G1	B1-U1-G2	B1-U1-G2	B1-U1-G2	B1-U1-G2	B1-U1-G2	B1-U1-G2	
SL4	Lumens	2,110	2,649	3,456	4,326	5,113	5,818	2,234	2,805	3,660	4,581	5,415	6,162	
	BUG Rating	B0-U0-G1	B0-U0-G1	B0-U0-G1	B0-U0-G1	B0-U0-G1	B0-U0-G1	B1-U1-G2	B1-U1-G2	B1-U1-G2	B1-U1-G2	B1-U1-G2	B1-U1-G2	
SLL/SLR	Lumens	1,990	2,498	3,259	4,080	4,823	5,488	2,154	2,705	3,529	4,416	5,222	5,942	
	BUG Rating	B1-U0-G1	B1-U0-G1	B1-U0-G1	B1-U0-G1	B1-U0-G1	B1-U0-G1	B1-U1-G2	B1-U1-G2	B1-U1-G2	B1-U1-G2	B1-U1-G2	B1-U1-G2	
RW	Lumens	2,380	2,988	3,898	4,880	5,768	6,564	2,465	3,095	4,037	5,054	5,974	6,798	
	BUG Rating	B2-U0-G0	B2-U0-G0	B2-U0-G0	B2-U0-G0	B2-U0-G0	B2-U0-G0	B3-U1-G1	B3-U1-G1	B3-U1-G1	B3-U1-G1	B3-U1-G1	B3-U1-G1	

LUMEN MAINTENANCE

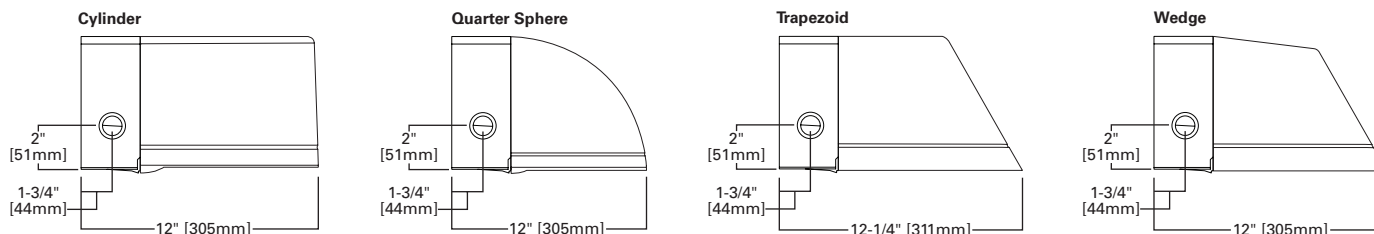
Current	Ambient Temperature	25000 Hours*	50000 Hours*	60000 Hours*	100000 Hours*	Theoretical L70 (Hours)*
Up to 1.2A	Up to 40°C	>95%	>91%	>90%	>83%	20,4000

*Data calculated based on TM-21 calculator.

LUMEN MULTIPLIER

Ambient Temperature	Lumen Multiplier
10°C	1.02
15°C	1.01
25°C	1.00
40°C	0.99

THRUWAY BACK BOX



ORDERING INFORMATION

TO BE
DETERMINED

Sample Number: ISC-AF-1200-LED-E1-T3-BZ

Product Family ¹	Light Engine	Drive Current	Lamp Type	Voltage	Distribution	Color
ISC =Impact Elite LED Small Cylinder ISS =Impact Elite LED ~~Small Quarter Sphere~~ IST =Impact Elite LED Small Trapezoid ISW =Impact Elite LED Small Wedge	AF =(1) LightSquare H4-4	H4-1 350 =Drive Current Factory Set to 350mA 450 =Drive Current Factory Set to 450mA 600 =Drive Current Factory Set to 600mA 800 =Drive Current Factory Set to 800mA 1000 =Drive Current Factory Set to 1000mA 1200 =Drive Current Factory Set to 1200mA ²	LED =Solid State Light Emitting Diodes	E1 =Electronic (120-277V) 347 =347V ² 480 =480V ^{2,3}	T2 =Type II T3 =Type III T4FT =Type IV Forward Throw T4W =Type IV Wide SL2 =Type II w/Spill Control SL3 =Type III w/Spill Control SL4 =Type IV w/Spill Control SLL =90° Spill Light Eliminator Left SLR =90° Spill Light Eliminator Right RW =Rectangular Wide Type I	AP =Grey BZ =Bronze BK =Black DP =Dark Platinum GM =Graphite Metallic WH =White
Options (Add as Suffix)				Accessories (Order Separately) ¹⁷		
7030 =70 CRI / 3000K CCT ⁴ 7050 =70 CRI / 5000K CCT ⁴ 7060 =70 CRI / 5700K CCT ⁴ 8030 =80 CRI / 3000K CCT ⁴ PER7 =NEMA 7-PIN Twistlock Photocontrol Receptacle ^{2,5,6} P =Button Type Photocontrol (Available in 120, 208, 240 or 277V. Must Specify Voltage) ^{2,6} HA =50°C High Ambient ⁷ AHD145 =After Hours Dim, 5 Hours, 50% ⁸ AHD245 =After Hours Dim, 6 Hours, 50% ⁸ AHD255 =After Hours Dim, 7 Hours, 50% ⁸ AHD355 =After Hours Dim, 8 Hours, 50% ⁸ MS/DIM-LXX =Motion Sensor for Dimming Operation ^{9,10,11} LWR-LW =LumaWatt Pro Wireless Sensor, Wide Lens for 8' - 16' Mounting Height ^{6,11,12} LWR-LN =LumaWatt Pro Wireless Sensor, Narrow Lens for 16' - 40' Mounting Height ^{6,11,12} BBB =Battery Pack with Back Box (Specify 120V or 277V) ¹³ ~~CWB=Cold Weather Battery Pack with Back Box (Specify 120V or 277V) ¹⁴~~ LCF =LightSquare Trim Plate Matches Housing Finish HSS =Factory Installed House Side Shield ¹⁵ ULG =Uplight Glow ^{5,6} TR =Tamper Resistant Hardware X =Driver Surge Protection (6kV) Only ¹⁶				MA1253 =10kV Circuit Module Replacement MA1254-XX =Thruway Back Box - Impact Elite Trapezoid MA1255-XX =Thruway Back Box - Impact Elite Cylinder MA1256-XX =Thruway Back Box - Impact Elite Quarter Sphere MA1257-XX =Thruway Back Box - Impact Elite Wedge FSIR-100 =Wireless Configuration Tool for Occupancy Sensor		

NOTES:

- Standard 4000K CCT and greater than 70 CRI.
- Not available with ULG option.
- Only for use with 480V Wye systems. Per NEC, not for use with ungrounded systems, impedance grounded systems or corner grounded systems (commonly known as Three Phase Three Wire Delta, Three Phase High Leg Delta and Three Phase Corner Grounded Delta systems).
- Extended lead times apply.
- Not available with ISS or ISW.
- Not available with LWR-XX or MS/DIM-LXX.
- Suitable for 50°C provided no options other than motion sensor are included and driver output set to 1.A or less.
- Requires the use of P photocontrol or the PER7 photocontrol receptacle with photocontrol accessory. Not available with 350mA drive current. See After Hours Dim supplemental guide for additional information.
- Specify lens in place of XX. Round to next highest option based on mounting height. Available options are 08, 20 and 40W.
- The FSIR-100 configuration tool is required to adjust parameters including high and low modes, sensitivity, time delay, cutoff and more. Consult your lighting representative at Eaton for more information.
- Includes integral photocell.
- LumaWatt Pro wireless sensors are factory installed and requiring network components in appropriate quantities. See www.eaton.com/lighting for LumaWatt Pro application information.
- LED standard integral battery pack is rated for minimum operating temperature 32°F (0°C). Operates downlight for 90-minutes.
- LED cold weather integral battery pack is rated for minimum operating temperature -4°F (-20°C). Operates downlight for 90-minutes.
- Only for use with SL2, SL3 and SL4 distributions. The LightSquare trim plate is painted black when the HSS option is selected.
- Removes additional surge module.
- Specify color in place of XX.

DESCRIPTION

The Galleon™ LED luminaire delivers exceptional performance in a highly scalable, low-profile design. Patented, high-efficiency AccuLED Optics™ system provides uniform and energy conscious illumination to walkways, parking lots, roadways, building areas and security lighting applications. IP66 rated and UL/cUL Listed for wet locations.

Catalog #	Type
Project	Y2-2 Y3-2 Y3-5 Y4-2 Y4-5
Comments	Date
Prepared by	

SPECIFICATION FEATURES

Construction

Extruded aluminum driver enclosure thermally isolated from Light Squares for optimal thermal performance. Heavy-wall, die-cast aluminum end caps enclose housing and die-cast aluminum heat sinks. A unique, patent pending interlocking housing and heat sink provides scalability with superior structural rigidity. 3G vibration tested and rated. Optional tool-less hardware available for ease of entry into electrical chamber. Housing is IP66 rated.

Optics

Patented, high-efficiency injection-molded AccuLED Optics technology. Optics are precisely designed to shape the distribution maximizing efficiency and application spacing. AccuLED Optics create consistent distributions with the scalability to meet customized application requirements. Offered standard in 4000K (+/- 275K) CCT 70 CRI. Optional 3000K, 5000K and 6000K CCT.

Electrical

LED drivers are mounted to removable tray assembly for ease of maintenance. 120-277V 50/60Hz, 347V 60Hz or 480V 60Hz operation. 480V is compatible for use with 480V Wye systems only. Standard with 0-10V dimming. Shipped standard with Eaton proprietary circuit module designed to withstand 10kV of transient line surge. The Galleon LED luminaire is suitable for operation in -40°C to 40°C ambient environments. For applications with ambient temperatures exceeding 40°C, specify the HA (High Ambient) option. Light Squares are IP66 rated. Greater than 90% lumen maintenance expected at 60,000 hours. Available in standard 1A drive current and optional 600mA, 800mA and 1200mA drive currents (nominal).

Mounting

STANDARD ARM MOUNT: Extruded aluminum arm includes internal bolt guides allowing for easy positioning of fixture during mounting. When mounting two or more luminaires at 90° and 120° apart, the EA extended arm may be required. Refer to the

arm mounting requirement table. Round pole adapter included. For wall mounting, specify wall mount bracket option. **QUICK MOUNT ARM:** Adapter is bolted directly to the pole. Quick mount arm slide into place on the adapter and is secured via two screws, facilitating quick and easy installation. The versatile, patent pending, quick mount arm accommodates multiple drill patterns ranging from 1-1/2" to 4-7/8". Removal of the door on the quick mount arm enables wiring of the fixture without having to access the driver compartment. A knock-out enables round pole mounting.

Finish

Housing finished in super durable TGIC polyester powder coat paint, 2.5 mil nominal thickness for superior protection against fade and wear. Heat sink is powder coated black. Standard housing colors include black, bronze, grey, white, dark platinum and graphite metallic. RAL and custom color matches available.

Warranty

Five-year warranty.



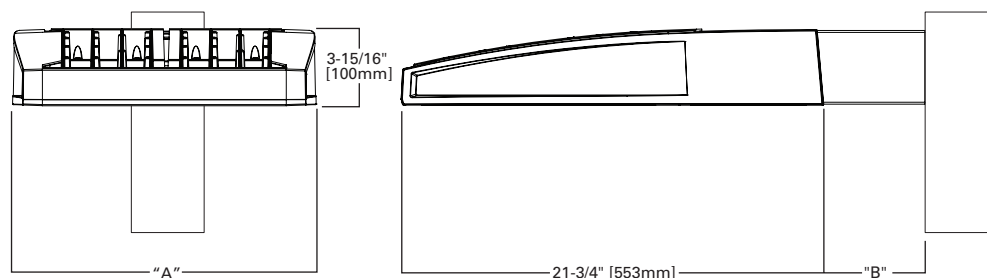
GLEON GALLEON LED

1-10 Light Squares

Solid State LED

AREA/SITE LUMINAIRE

DIMENSIONS

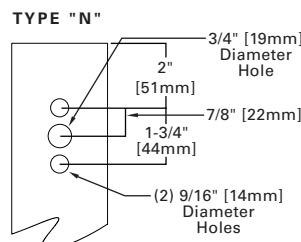


DIMENSION DATA

	Number of Light Squares	"A" Width	"B" Standard Arm Length	"B" Optional Arm Length ¹	Weight with Arm (lbs.)	EPA with Arm ² (Sq. Ft.)
Y2-2 Y3-2 Y4-2	1-4	15-1/2" (394mm)	7" (178mm)	10" (254mm)	33 (15.0 kgs.)	0.96
Y3-5 Y4-5	5-6	21-5/8" (549mm)	7" (178mm)	10" (254mm)	44 (20.0 kgs.)	1.00
	7-8	27-5/8" (702mm)	7" (178mm)	13" (330mm)	54 (24.5 kgs.)	1.07
	9-10	33-3/4" (857mm)	7" (178mm)	16" (406mm)	63 (28.6 kgs.)	1.12

NOTES: 1. Optional arm length to be used when mounting two fixtures at 90° on a single pole. 2. EPA calculated with optional arm length.

DRILLING PATTERN



CERTIFICATION DATA

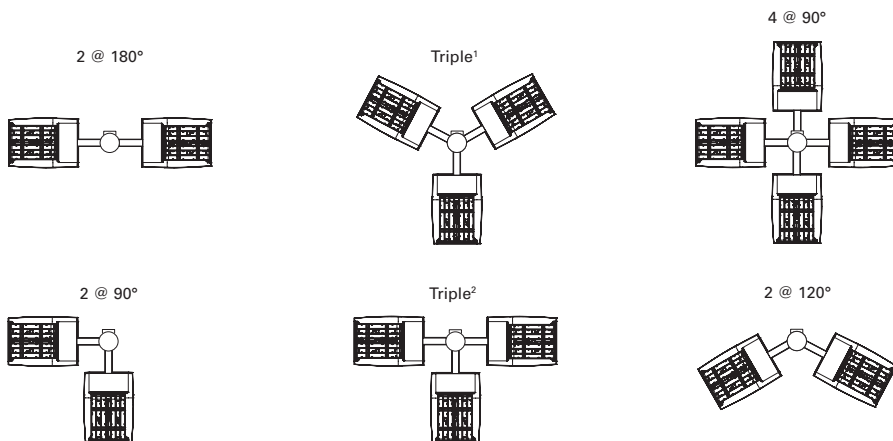
UL/cUL Wet Location Listed
ISO 9001
LM79 / LM80 Compliant
3G Vibration Rated
IP66 Rated
DesignLights Consortium™ Qualified*

ENERGY DATA

Electronic LED Driver
>0.9 Power Factor
<20% Total Harmonic Distortion
120V-277V 50/60Hz
347V & 480V 60Hz
-40°C Min. Temperature
40°C Max. Temperature
50°C Max. Temperature (HA Option)

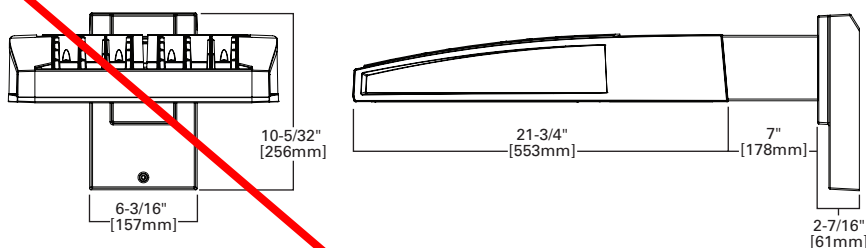
ARM MOUNTING REQUIREMENTS

Configuration	90° Apart	120° Apart
GLEON-AF-01	7" Arm (Standard)	7" Arm (Standard)
GLEON-AF-02	7" Arm (Standard)	7" Arm (Standard)
GLEON-AF-03	7" Arm (Standard)	7" Arm (Standard)
GLEON-AF-04	7" Arm (Standard)	7" Arm (Standard)
GLEON-AF-05	10" Extended Arm (Required)	7" Arm (Standard)
GLEON-AF-06	10" Extended Arm (Required)	7" Arm (Standard)
GLEON-AF-07	13" Extended Arm (Required)	13" Extended Arm (Required)
GLEON-AF-08	13" Extended Arm (Required)	13" Extended Arm (Required)
GLEON-AF-09	16" Extended Arm (Required)	16" Extended Arm (Required)
GLEON-AF-10	16" Extended Arm (Required)	16" Extended Arm (Required)

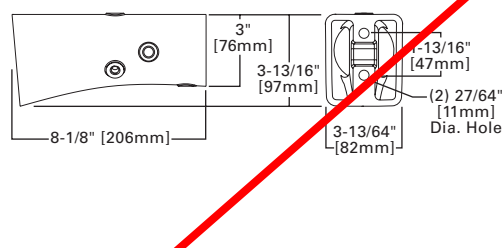


NOTES: 1 Round poles are 3 @ 120°. Square poles are 3 @ 90°. 2 Round poles are 3 @ 90°.

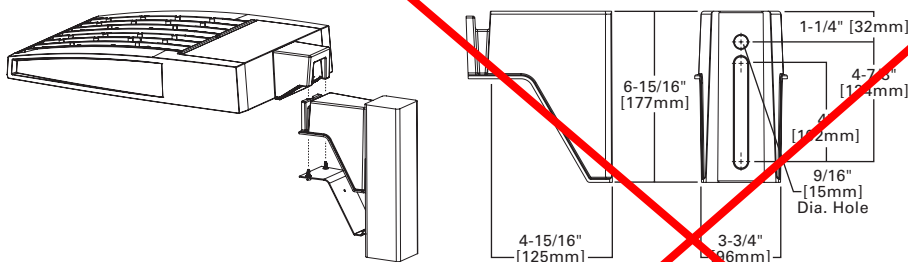
STANDARD WALL MOUNT



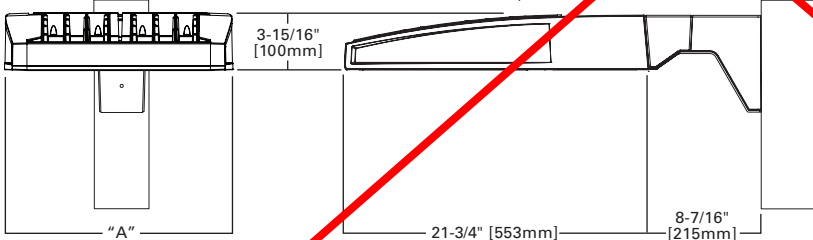
MAST ARM MOUNT



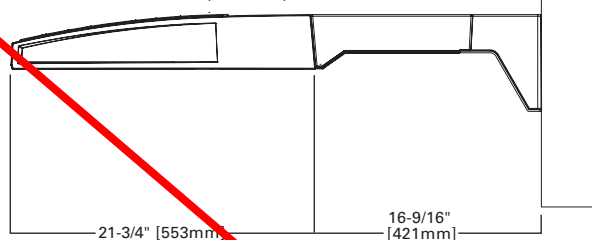
QUICK MOUNT ARM (INCLUDES FIXTURE ADAPTER)



QM Quick Mount Arm (Standard)



QMEA Quick Mount Arm (Extended)

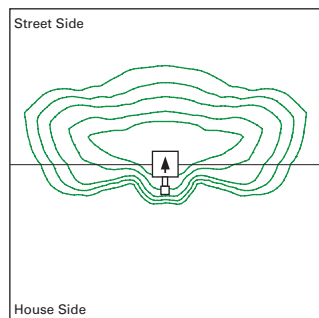


QUICK MOUNT ARM DATA

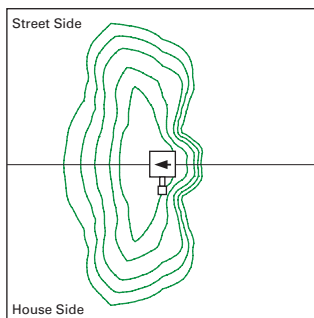
Number of Light Squares ^{1,2}	"A" Width	Weight with QM Arm (lbs.)	Weight with QMEA Arm (lbs.)	EPA (Sq. Ft.)
1-4	15-1/2" (394mm)	35 (15.91 kgs.)	38 (17.27 kgs.)	1.11
5-6 ³	21-5/8" (549mm)	46 (20.91 kgs.)	49 (22.27 kgs.)	
7-8	27-5/8" (702mm)	56 (25.45 kgs.)	59 (26.82 kgs.)	

NOTES: 1 QM option available with 1-8 light square configurations. 2 QMEA option available with 1-6 light square configurations. 3 QMEA arm to be used when mounting two fixtures at 90° on a single pole.

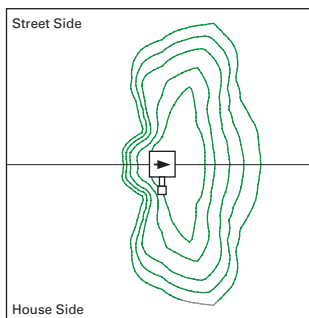
OPTIC ORIENTATION



Standard



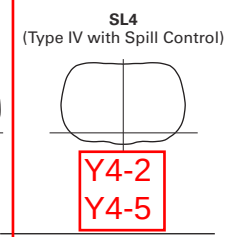
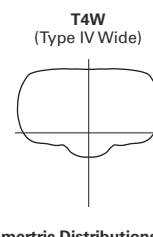
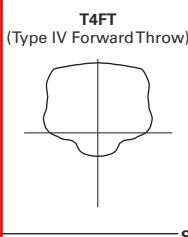
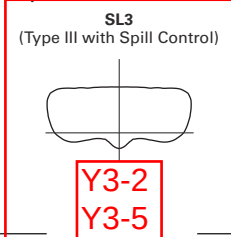
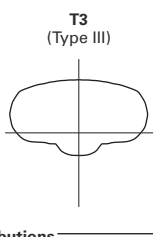
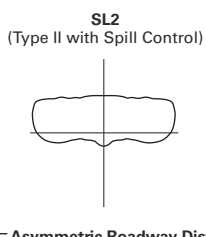
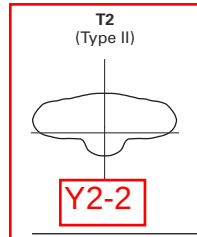
Optics Rotated Left @ 90° [L90]



Optics Rotated Right @ 90° [R90]

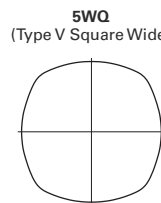
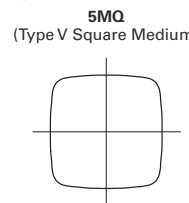
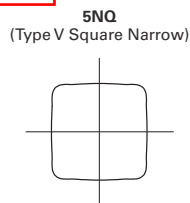
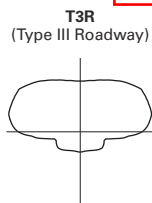
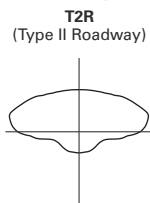
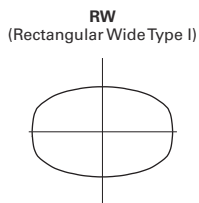
OPTICAL DISTRIBUTIONS

Asymmetric Area Distributions

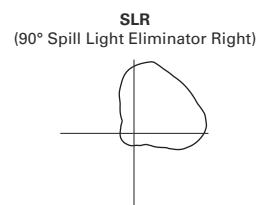
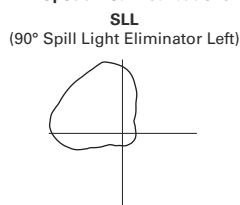
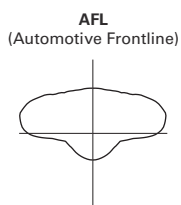


Asymmetric Roadway Distributions

Symmetric Distributions



Specialized Distributions

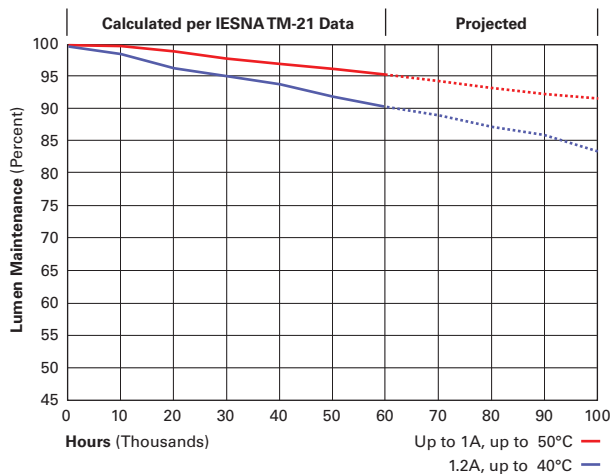


LUMEN MAINTENANCE

Drive Current	Ambient Temperature	TM-21 Lumen Maintenance (60,000 Hours)	Projected L70 (Hours)
Up to 1A	Up to 50°C	> 95%	416,000
1.2A	Up to 40°C	> 90%	205,000

LUMEN MULTIPLIER

Ambient Temperature	Lumen Multiplier
0°C	1.02
10°C	1.01
25°C	1.00
40°C	0.99
50°C	0.97



NOMINAL POWER LUMENS (800MA)

Number of Light Squares		1	2	3	4	5	6	7	8	9	10
Nominal Power (Watts)		44	85	124	171	210	249	295	334	374	419
Input Current @ 120V (A)		0.39	0.77	1.13	1.54	1.90	2.26	2.67	3.03	3.39	3.80
Input Current @ 208V (A)		0.22	0.44	0.62	0.88	1.06	1.24	1.50	1.68	1.87	2.12
Input Current @ 240V (A)		0.19	0.38	0.54	0.76	0.92	1.08	1.30	1.46	1.62	1.84
Input Current @ 277V (A)		0.17	0.36	0.47	0.72	0.83	0.95	1.19	1.31	1.42	1.67
Input Current @ 347V (A)		0.15	0.24	0.38	0.49	0.63	0.77	0.87	1.01	1.15	1.52
Input Current @ 480V (A)		0.11	0.18	0.29	0.37	0.48	0.59	0.66	0.77	0.88	0.96
Optics											
T2	4000K/5000K Lumens	4,941	9,656	14,408	19,038	23,588	28,227	33,382	37,823	42,191	46,713
	3000K Lumens	4,374	Y2-2	12,754	16,852	20,880	24,987	29,550	33,481	37,347	41,350
	BUG Rating	B1-U0-G1	B2-U0-G2	B2-U0-G2	B3-U0-G3	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4	B4-U0-G5	B4-U0-G5
T2R	4000K/5000K Lumens	5,246	10,251	15,296	20,211	25,041	29,966	35,439	40,154	44,791	49,592
	3000K Lumens	4,644	9,074	13,540	17,891	22,166	26,526	31,371	35,544	39,649	43,899
	BUG Rating	B1-U0-G1	B1-U0-G2	B2-U0-G2	B2-U0-G3	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G5
T3	4000K/5000K Lumens	5,037	9,842	14,685	19,404	24,041	28,770	34,024	38,551	43,003	47,612
	3000K Lumens	4,459	8,712	12,999	17,176	21,281	25,467	30,118	34,125	38,066	42,146
	BUG Rating	B1-U0-G1	B2-U0-G2	B2-U0-G3	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G5	B4-U0-G5	B4-U0-G5
T3R	4000K/5000K Lumens	5,148	10,061	15,011	19,835	24,576	29,409	34,780	39,408	43,959	48,669
	3000K Lumens	4,557	8,906	13,288	17,558	21,755	26,033	30,787	34,884	38,913	43,082
	BUG Rating	B1-U0-G2	B1-U0-G2	B2-U0-G3	B2-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5
T4FT	4000K/5000K Lumens	5,066	9,899	14,770	19,516	24,181	28,936	34,221	38,774	43,252	47,888
	3000K Lumens	4,484	8,763	13,074	17,276	21,405	25,614	30,292	34,323	38,287	42,390
	BUG Rating	B1-U0-G2	B1-U0-G2	B2-U0-G3	B2-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5
T4W	4000K/5000K Lumens	5,000	9,771	14,579	19,264	23,869	28,562	33,779	38,274	42,694	47,269
	3000K Lumens	4,426	8,649	12,905	17,052	21,129	25,283	29,901	33,880	37,793	41,843
	BUG Rating	B1-U0-G2	B2-U0-G2	B2-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5	B4-U0-G5	B4-U0-G5
SL2	4000K/5000K Lumens	4,933	9,639	14,383	19,005	23,547	28,178	33,324	37,758	42,118	46,632
	3000K Lumens	4,367	8,532	12,732	16,823	20,844	24,943	29,498	33,423	37,283	41,279
	BUG Rating	B1-U0-G2	B2-U0-G2	B2-U0-G3	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G5	B4-U0-G5	B4-U0-G5
SL3	4000K/5000K Lumens	5,036	9,841	14,683	19,401	24,039	28,766	34,019	38,546	42,997	47,605
	3000K Lumens	4,458	Y3-2	12,997	17,174	Y3-5	25,464	30,114	34,121	38,061	42,140
	BUG Rating	B1-U0-G2	B1-U0-G2	B2-U0-G3	B2-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5
SL4	4000K/5000K Lumens	4,784	9,350	13,951	18,434	22,840	27,332	32,323	36,624	40,854	45,232
	3000K Lumens	4,235	Y4-2	12,349	16,318	Y4-5	24,194	28,612	32,420	36,164	40,039
	BUG Rating	B1-U0-G2	B1-U0-G3	B1-U0-G3	B2-U0-G4	B2-U0-G4	B2-U0-G5	B2-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5
5NQ	4000K/5000K Lumens	5,194	10,150	15,145	20,011	24,794	29,670	35,088	39,757	44,349	49,102
	3000K Lumens	4,598	8,985	13,406	17,714	21,948	26,264	31,060	35,193	39,258	43,465
	BUG Rating	B2-U0-G1	B3-U0-G1	B3-U0-G2	B4-U0-G2	B4-U0-G2	B5-U0-G2	B5-U0-G3	B5-U0-G3	B5-U0-G3	B5-U0-G3
5MQ	4000K/5000K Lumens	5,290	10,337	15,424	20,380	25,250	30,217	35,734	40,489	45,165	50,006
	3000K Lumens	4,683	9,150	13,653	18,040	22,351	26,748	31,632	35,841	39,980	44,265
	BUG Rating	B3-U0-G1	B3-U0-G2	B4-U0-G2	B4-U0-G2	B5-U0-G3	B5-U0-G3	B5-U0-G4	B5-U0-G4	B5-U0-G4	B5-U0-G4
5WQ	4000K/5000K Lumens	5,304	10,365	15,465	20,434	25,318	30,297	35,830	40,597	45,286	50,139
	3000K Lumens	4,695	9,175	13,690	18,088	22,411	26,819	31,717	35,936	40,087	44,383
	BUG Rating	B3-U0-G1	B4-U0-G2	B4-U0-G2	B5-U0-G3	B5-U0-G3	B5-U0-G4	B5-U0-G4	B5-U0-G4	B5-U0-G5	B5-U0-G5
SLL/SLR	4000K/5000K Lumens	4,426	8,648	12,903	17,049	21,124	25,278	29,894	33,872	37,784	41,832
	3000K Lumens	3,918	7,655	11,422	15,092	18,699	22,376	26,462	29,983	33,446	37,030
	BUG Rating	B1-U0-G2	B1-U0-G2	B2-U0-G3	B2-U0-G3	B2-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5
RW	4000K/5000K Lumens	5,147	10,058	15,009	19,830	24,570	29,402	34,771	39,399	43,949	48,658
	3000K Lumens	4,556	8,903	13,286	17,554	21,749	26,027	30,779	34,876	38,904	43,072
	BUG Rating	B2-U0-G1	B3-U0-G1	B3-U0-G2	B4-U0-G2	B4-U0-G2	B4-U0-G2	B5-U0-G3	B5-U0-G3	B5-U0-G3	B5-U0-G4
AFL	4000K/5000K Lumens	5,166	10,095	15,063	19,903	24,659	29,509	34,898	39,542	44,108	48,835
	3000K Lumens	4,573	8,936	13,334	17,618	21,828	26,121	30,892	35,003	39,044	43,229
	BUG Rating	B1-U0-G1	B1-U0-G1	B2-U0-G2	B2-U0-G2	B3-U0-G2	B3-U0-G3	B3-U0-G3	B3-U0-G3	B3-U0-G3	B3-U0-G3

* Nominal data for 70 CRI.

CONTROL OPTIONS

0-10V (DIM)

This fixture is offered standard with 0-10V dimming driver(s). The DIM option provides 0-10V dimming wire leads for use with a lighting control panel or other control method.

Photocontrol (P, R and PER7)

Optional button-type photocontrol (P) and photocontrol receptacles (R and PER7) provide a flexible solution to enable “dusk-to-dawn” lighting by sensing light levels. Advanced control systems compatible with NEMA 7-pin standards can be utilized with the PER7 receptacle.

After Hours Dim (AHD)

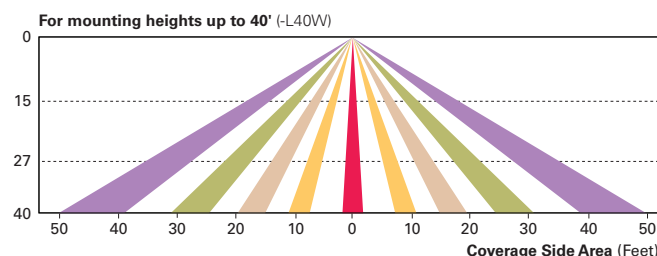
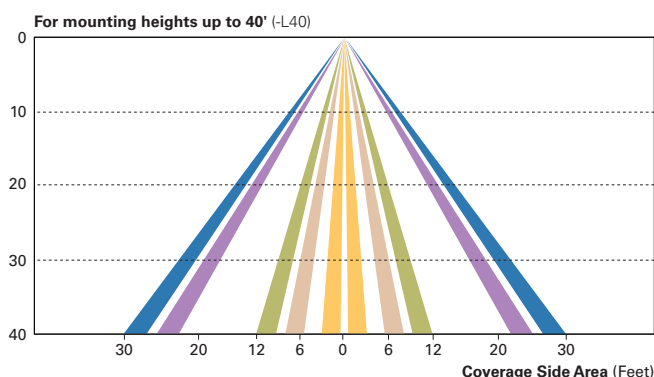
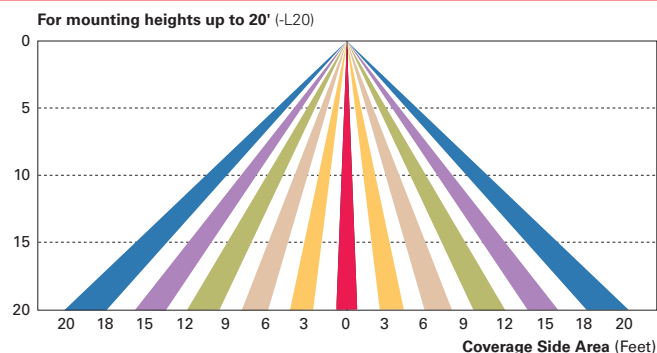
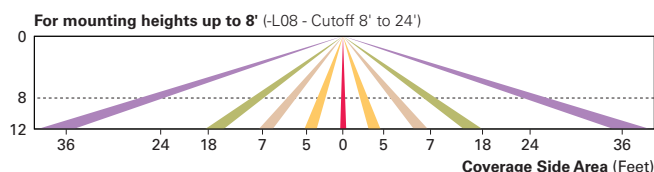
This feature allows photocontrol-enabled luminaires to achieve additional energy savings by dimming during scheduled portions of the night. The dimming profile will automatically take effect after a “dusk-to-dawn” period has been calculated from the photocontrol input. Specify the desired dimming profile for a simple, factory-shipped dimming solution requiring no external control wiring. Reference the After Hours Dim supplemental guide for additional information.

Dimming Occupancy Sensor (MS/DIM-LXX, MS/X-LXX and MS-LXX)

These sensors are factory installed in the luminaire housing. When the MS/DIM-LXX sensor option is selected, the occupancy sensor is connected to a dimming driver and the entire luminaire dims when there is no activity detected. When activity is detected, the luminaire returns to full light output. The MS/DIM sensor is factory preset to dim down to approximately 50 percent power with a time delay of five minutes. The MS-LXX sensor is factory preset to turn the luminaire off after five minutes of no activity. The MS/X-LXX is also preset for five minutes and only controls the specified number of light engines to maintain steady output from the remaining light engines.

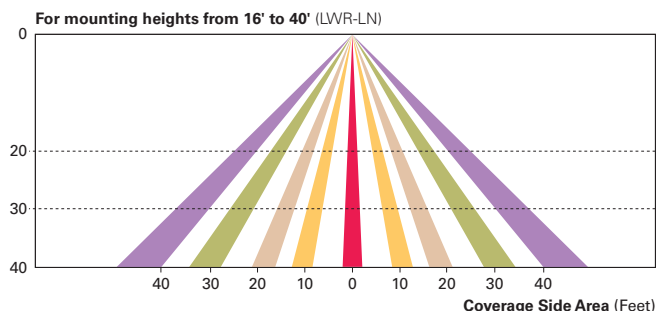
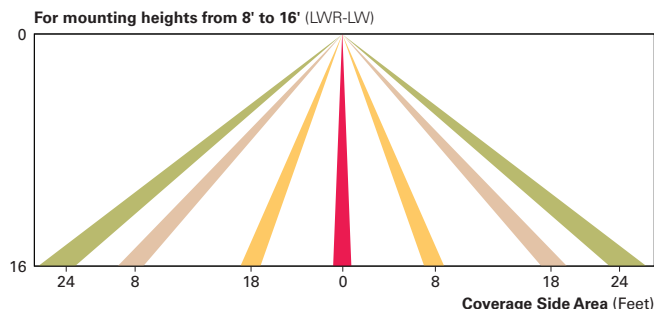
These occupancy sensors includes an integral photocell that can be activated with the FSIR-100 accessory for “dusk-to-dawn” control or daylight harvesting - the factory preset is OFF. The FSIR-100 is a wireless tool utilized for changing the dimming level, time delay, sensitivity and other parameters.

A variety of sensor lens are available to optimize the coverage pattern for mounting heights from 8'-40'.

**LumaWatt Wireless Control and Monitoring System (LWR-LW and LWR-LN)**

The LumaWatt system is a peer-to-peer wireless network of luminaire-integral sensors for any sized project. Each sensor is capable of motion and photo sensing, metering power consumption and wireless communication. The end-user can securely create and manage sensor profiles with browser-based management software. The software will automatically broadcast to the sensors via wireless gateways for zone-based and individual luminaire control. The LumaWatt software provides smart building solutions by utilizing the sensor to provide easy-to-use dashboard and analytic capabilities such as improved energy savings, traffic flow analysis, building management software integration and more.

For additional details, refer to the LumaWatt product guides.



ORDERING INFORMATION

Sample Number: GLEON-AF-04-LED-E1-T3-GM-QM

TO BE
DETERMINED

Product Family ^{1,2}	Light Engine	Number of Light Squares ³	Lamp Type	Voltage	Distribution	Color	Mounting
GLEON=Galleon	AF=1A Drive Current	01=1 02=2 03=3 04=4 05=5 06=6 07=7 ⁴ 08=8 ⁴ 09=9 ⁵ 10=10 ⁵	LED=Solid State Light Emitting Diodes	E1=120-277V 347=347V ⁶ 480=480V ^{6,7}	T2=Type II T2R=Type II Roadway T3=Type III T3R=Type III Roadway T4FT=Type IV Forward Throw T4W=Type IV Wide 5NQ=Type V Narrow 5MQ=Type V Square Medium 5WQ=Type V Square Wide SL2=Type II w/Spill Control SL3=Type III w/Spill Control SL4=Type IV w/Spill Control SLL=90° Spill Light Eliminator Left SLR=90° Spill Light Eliminator Right RW=Rectangular Wide Type I AFL=Automotive Frontline	AP=Grey BZ=Bronze BK=Black DP=Dark Platinum GM=Graphite Metallic WH=White	[Blank]=Arm for Round or Square Pole EA=Extended Arm ⁸ MA=Mast Arm Adapter ⁹ WM=Wall Mount QM=Quick Mount Arm (Standard Length) ¹⁰ QMEA=Quick Mount Arm (Extended Length) ¹¹
Options (Add as Suffix)					Accessories (Order Separately)		
7030=70 CRI 3000K ¹² 8030=80 CRI 3000K ¹³ 7050=70 CRI 5000K ¹² 7060=70 CRI 6000K ¹² 600=Drive Current Factory Set to Nominal 600mA ¹⁴ 800=Drive Current Factory Set to Nominal 800mA ¹⁴ 1200=Drive Current Factory Set to Nominal 1200mA ^{14,15} F=Single Fuse (120, 277 or 347V. Must Specify Voltage) FF=Double Fuse (208, 240 or 480V. Must Specify Voltage) 2L=Two Circuits ^{16,17} DIM=External 0-10V Dimming Leads P=Button Type Photocontrol (120, 208, 240 or 277V. Must Specify Voltage) PER7=NEMA 7-PIN Twistlock Photocontrol Receptacle R=NEMA Twistlock Photocontrol Receptacle AHD145=After Hours Dim, 5 Hours ¹⁸ AHD245=After Hours Dim, 6 Hours ¹⁸ AHD255=After Hours Dim, 7 Hours ¹⁸ AHD355=After Hours Dim, 8 Hours ¹⁸ HA=50°C High Ambient ¹⁹ MS/DIM-L08=Motion Sensor for Dimming Operation, Maximum 8' Mounting Height ^{20,21} MS/DIM-L20=Motion Sensor for Dimming Operation, 9' - 20' Mounting Height ^{20,22} MS/DIM-L40=Motion Sensor for Dimming Operation, 21' - 40' Mounting Height ^{20,23} MS/DIM-L40W=Motion Sensor for Dimming Operation, 21' - 40' Mounting Height (Wide Range) ^{20,24} MS/X-L08=Bi-Level Motion Sensor, Maximum 8' Mounting Height ^{20,21,25} MS/X-L20=Bi-Level Motion Sensor, 9' - 20' Mounting Height ^{20,22,25} MS/X-L40=Bi-Level Motion Sensor, 21' - 40' Mounting Height ^{20,23,25} MS/X-L40W=Bi-Level Motion Sensor, 21' - 40' Mounting Height (Wide Range) ^{20,24,25} MS-L08=Motion Sensor for ON/OFF Operation, Maximum 8' Mounting Height ^{20,21} MS-L20=Motion Sensor for ON/OFF Operation, 9' - 20' Mounting Height ^{20,22} MS-L40=Motion Sensor for ON/OFF Operation, 21' - 40' Mounting Height ^{20,23} MS-L40W=Motion Sensor for ON/OFF Operation, 21' - 40' Mounting Height (Wide Range) ^{20,24} LWR-LW=LumaWatt Wireless Sensor, Wide Lens for 8' - 16' Mounting Height ²⁶ LWR-LN=LumaWatt Wireless Sensor, Narrow Lens for 16' - 40' Mounting Height ²⁶ L90=Optics Rotated 90° Left R90=Optics Rotated 90° Right MT=Factory Installed Mesh Top TH=Tool-less Door Hardware LCF=Light Square Trim Plate Painted to Match Housing ²⁷ HSS=Factory Installed House Side Shield ²⁸ CE=CE Marking ²⁹					OA/RA1016=NEMA Photocontrol Multi-Tap - 105-285V OA/RA1027=NEMA Photocontrol - 480V OA/RA1201=NEMA Photocontrol - 347V OA/RA1013=Photocontrol Shorting Cap OA/RA1014=120V Photocontrol MA1252=10kV Surge Module Replacement MA1036-XX=Single Tenon Adapter for 2-3/8" O.D. Tenon MA1037-XX=2 @ 180° Tenon Adapter for 2-3/8" O.D. Tenon MA1197-XX=3 @ 120° Tenon Adapter for 2-3/8" O.D. Tenon MA1188-XX=4 @ 90° Tenon Adapter for 2-3/8" O.D. Tenon MA1189-XX=2 @ 90° Tenon Adapter for 2-3/8" O.D. Tenon MA1190-XX=3 @ 90° Tenon Adapter for 2-3/8" O.D. Tenon MA1191-XX=2 @ 120° Tenon Adapter for 2-3/8" O.D. Tenon MA1038-XX=Single Tenon Adapter for 3-1/2" O.D. Tenon MA1039-XX=2 @ 180° Tenon Adapter for 3-1/2" O.D. Tenon MA1192-XX=3 @ 120° Tenon Adapter for 3-1/2" O.D. Tenon MA1193-XX=4 @ 90° Tenon Adapter for 3-1/2" O.D. Tenon MA1194-XX=2 @ 90° Tenon Adapter for 3-1/2" O.D. Tenon MA1195-XX=3 @ 90° Tenon Adapter for 3-1/2" O.D. Tenon FSIR-100=Wireless Configuration Tool for Occupancy Sensor ²⁰ GLEON-MT1=Field Installed Mesh Top for 1-4 Light Squares GLEON-MT2=Field Installed Mesh Top for 5-6 Light Squares GLEON-MT3=Field Installed Mesh Top for 7-8 Light Squares GLEON-MT4=Field Installed Mesh Top for 9-10 Light Squares GLEON-QM=Quick Mount Arm Kit GLEON-QMEA=Quick Mount Extended Arm Kit LS/HSS=Field Installed House Side Shield ^{28,30}		

NOTES:

- Customer is responsible for engineering analysis to confirm pole and fixture compatibility for all applications. Refer to www.eaton.com/lighting for additional information.
- DesignLights Consortium™ Qualified. Refer to www.designlights.org Qualified Products List under Family Models for details.
- Standard 4000K CCT and minimum 70 CRI.
- Not compatible with extended quick mount arm (QMEA).
- Not compatible with standard quick mount arm (QM) or extended quick mount arm (QMEA).
- Requires the use of an internal step down transformer when combined with sensor options. Not available with sensor at 1200mA. Not available in combination with the HA high ambient and sensor options at 1A.
- Only for use with 480V Wye systems. Per NEC, not for use with ungrounded systems, impedance grounded systems or corner grounded systems (commonly known as Three Phase Three Wire Delta, Three Phase High Leg Delta and Three Phase Corner Grounded Delta systems).
- May be required when two or more luminaires are oriented on a 90° or 120° drilling pattern. Refer to arm mounting requirement table.
- Factory installed.
- Maximum 8 light squares.
- Maximum 6 light squares.
- Extended lead times apply. Use dedicated IES files for 3000K, 5000K and 6000K when performing layouts. These files are published on the Galleon luminaire product page on the website.
- Extended lead times apply. Use dedicated IES files for 3000K, 5000K and 6000K when performing layouts. These files are published on the Galleon luminaire product page on the website.
- 1 Amp standard. Use dedicated IES files for 600mA, 800mA and 1200mA when performing layouts. These files are published on the Galleon luminaire product page on the website.
- Not available with HA option.
- 2L is not available with MS, MS/X or MS/DIM at 347V or 480V. 2L in AF-02 through AF-04 requires a larger housing, normally used for AF-05 or AF-06. Extended arm option may be required when mounting two or more fixtures per pole at 90° or 120°. Refer to arm mounting requirement table.
- Not available with LumaWatt wireless sensors.
- Requires the use of P photocontrol or the PER7 or R photocontrol receptacle with photocontrol accessory. See After Hours Dim supplemental guide for additional information.
- 50°C lumen maintenance data applies to 600mA, 800mA and 1A drive currents.
- The FSIR-100 configuration tool is required to adjust parameters including high and low modes, sensitivity, time delay, cutoff and more. Consult your lighting representative at Eaton for more information.
- Approximately 22' detection diameter at 8' mounting height.
- Approximately 40' detection diameter at 20' mounting height.
- Approximately 60' detection diameter at 40' mounting height.
- Approximately 100' detection diameter at 40' mounting height.
- Replace X with number of Light Squares operating in low output mode.
- LumaWatt wireless sensors are factory installed only requiring network components RF-EM-1, RF-GW-1 and RF-ROUT-1 in appropriate quantities. See www.eaton.com/lighting for LumaWatt application information.
- Not available with house side shield (HSS).
- Only for use with SL2, SL3, SL4 and AFL distributions. The Light Square trim plate is painted black when the HSS option is selected.
- CE is not available with the LWR, MS, MS/X, MS/DIM, P, R or PER7 options. Available in 120-277V only.
- One required for each Light Square.

Steel Poles



SSS SQUARE STRAIGHT STEEL

Catalog #		Type
Project		
Comments		Date
Prepared by		

FEATURES

- ASTM Grade steel base plate with ASTM A366 base cover
- Hand hole assembly 3" x 5" on 5" and 6" pole; and 2" x 4" on 4" pole
- 10'-39' mounting heights
- Drilled or tenon (specify)

ORDERING INFORMATION

SAMPLE NUMBER: SSS5A20SFM1XG

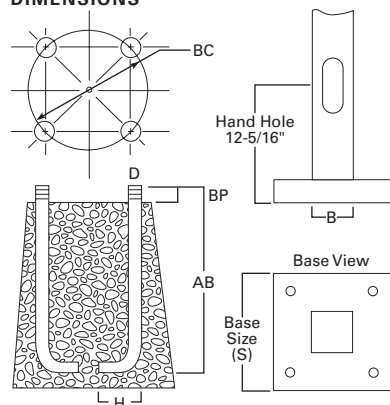
Product Family	Shaft Size (Inches) ¹	Wall Thickness (Inches)	Mounting Height (Feet)	Base Type	Finish	Mounting Type	Number and Location of Arms	Arm Lengths (Feet)	Options (Add as Suffix)
SSS=Square Straight Steel	4=4" 5=5" 6=6"	A=0.120" M=0.188" X=0.250"	10=10' 15=15' 20=20' 25=25' 30=30' 35=35' 39=39'	S=Square Steel Base	F=Dark Bronze G=Galvanized Steel J=Summit White K=Carbon Bronze L=Dark Platinum P=Primer Powder Coat R=Hartford Green S=Silver T=Graphite Metallic V=Grey W=White X=Custom Color Y=Black	2=2-3/8" O.D. Tenon (4" Long) 3=3-1/2" O.D. Tenon (5" Long) 4=4" O.D. Tenon (6" Long) 5=3" O.D. Tenon (4" Long) 6=2-3/8" O.D. Tenon (6" Long) 7=4" O.D. Tenon (10" Long) A=Type A Drilling C=Type C Drilling E=Type E Drilling F=Type F Drilling G=Type G Drilling J=Type J Drilling K=Type K Drilling M=Type M Drilling R=Type R Drilling Z=Type Z Drilling	1=Single 2=2 at 180° 3=Triple ² 4=4 at 90° 5=2 at 90° X=None	X=None	A=1/2" Tapped Hub (Specify location desired) B=3/4" Tapped Hub (Specify location desired) C=Convenience Outlet ³ E=GFCI Convenience Outlet ³ G=Ground Lug H=Additional Hand Hole ⁴ L=Drilled for Bumper Glitter V=Vibration Damper

TO BE DETERMINED

AS REQUIRED FOR SPECIFIED HEAD

NOTES: 1. All shaft sizes nominal. 2. Square poles are 3 at 90°, round poles are 3 at 120°. 3. Outlet is located 4' above base and on same side of pole as hand hole, unless specified otherwise. Receptacle not included, provision only. 4. Additional hand hole is located 12" below pole top and 90° from standard hand hole location, unless otherwise specified.

DIMENSIONS



WARNING: Customer is responsible for engineering analysis to confirm pole and fixture compatibility for all applications. Refer to pole white paper WP513001EN for additional support information. Before installing, make sure proper anchor bolts and templates are obtained. The use of unauthorized accessories such as banners, signs, cameras or pennants for which the pole was not designed voids the pole warranty and may result in pole failure causing serious injury or property damage. Information regarding total loading capacity can be supplied upon request. The pole warranty is void unless poles are used and installed as a complete pole and luminaire combination. This warranty specifically excludes failure as the result of a third party act or omission, misuse, unanticipated uses, fatigue failure or similar phenomena resulting from induced vibration, harmonic oscillation or resonance associated with movement of air currents around the product.

Specifications and dimensions subject to change without notice. Consult your lighting representative at Eaton or visit www.eaton.com/lighting for available options, accessories and ordering information.

Effective Projected Area (At Pole Top)

Mounting Height (Feet)	Catalog Number ^{1,2}	Wall Thickness (Inches)	Base Square ³ (Inches)	Bolt Circle Diameter (Inches)	Anchor Bolt Projection ³ (Inches)	Shaft Size ³ (Inches)	Anchor Bolt Diameter x Length x Hook (Inches)	Net Weight (Pounds)	Maximum Effective Projected Area (Square Feet) ⁴				Max. Fixture Load - Includes Bracket (Pounds)
MH			S	BC	BP	B	D x AB x H		80 mph	90 mph	100 mph	110 mph	
10	SSS4A10S	0.120	10-1/2	11	4-1/2	4	3/4 x 25 x 3	85	30.0	22.0	17.0	13.0	100
15	SSS4A15S	0.120	10-1/2	11	4-1/2	4	3/4 x 25 x 3	118	15.0	11.5	8.7	6.5	100
20	SSS4A20S	0.120	10-1/2	11	4-1/2	4	3/4 x 25 x 3	150	8.7	5.9	3.9	2.5	150
20	SSS5A20S	0.120	10-1/2	11	4-1/2	5	3/4 x 25 x 3	183	15.4	11.1	7.9	5.5	150
25	SSS4A25S	0.120	10-1/2	11	4-1/2	4	3/4 x 25 x 3	181	3.7	1.7	0.3	--	200
25	SSS5A25S	0.120	10-1/2	11	5	5	3/4 x 25 x 3	222	9.3	6.0	3.5	1.6	200
25	SSS6A25S	0.120	12-1/2	12-1/2	5	6	1 x 36 x 4	284	9.9	6.1	3.5	1.2	200
30	SSS5A30S	0.120	10-1/2	11	4-1/2	5	3/4 x 25 x 3	260	4.7	2.1	--	--	200
30	SSS5M30S	0.188	10-1/2	11	4-1/2	5	3/4 x 25 x 3	392	10.4	6.4	3.5	1.5	200
30	SSS6A30S	0.120	12-1/2	12-1/2	5	6	1 x 36 x 4	330	4.3	1.4	--	--	200
30	SSS6M30S	0.188	12-1/2	12-1/2	5	6	1 x 36 x 4	489	19.0	13.0	8.7	5.6	200
35	SSS5M35S	0.188	10-1/2	11	4-1/2	5	3/4 x 25 x 3	453	5.8	2.8	--	--	200
35	SSS6M35S	0.188	12-1/2	12-1/2	5	6	1 x 36 x 4	564	12.8	7.2	3.7	1.0	200
35	SSS6X35S	0.250	12-1/2	12-1/2	5	6	1 x 36 x 4	738	16.5	11.0	6.8	3.5	200
39	SSS6M39S	0.188	12-1/2	12-1/2	5	6	1 x 36 x 4	618	7.3	3.0	--	--	300
39	SSS6X39S	0.250	12-1/2	12-1/2	5	6	1 x 36 x 4	816	13.0	7.0	3.7	0.8	300

Effective Projected Area (Two Feet Above Pole Top)

Mounting Height (Feet)	Catalog Number ^{1,2}	Wall Thickness (Inches)	Base Square ³ (Inches)	Bolt Circle Diameter (Inches)	Anchor Bolt Projection ³ (Inches)	Shaft Size ³ (Inches)	Anchor Bolt Diameter x Length x Hook (Inches)	Net Weight (Pounds)	Maximum Effective Projected Area (Square Feet) ⁴				Max. Fixture Load - Includes Bracket (Pounds)
MH			S	BC	BP	B	D x AB x H		80 mph	90 mph	100 mph	110 mph	
10	SSS4A10S	0.120	10-1/2	11	4-1/2	4	3/4 x 25 x 3	85	23.0	17.5	14.0	11.0	100
15	SSS4A15S	0.120	10-1/2	11	4-1/2	4	3/4 x 25 x 3	118	13.4	10.0	7.5	5.7	100
20	SSS4A20S	0.120	10-1/2	11	4-1/2	4	3/4 x 25 x 3	150	7.6	5.2	3.4	2.1	150
20	SSS5A20S	0.120	10-1/2	11	4-1/2	5	3/4 x 25 x 3	183	13.8	9.9	7.1	4.9	150
25	SSS4A25S	0.120	10-1/2	11	4-1/2	4	3/4 x 25 x 3	181	3.4	1.6	0.3	--	200
25	SSS5A25S	0.120	10-1/2	11	5	5	3/4 x 25 x 3	222	8.5	5.5	3.2	1.5	200
25	SSS6A25S	0.120	12-1/2	12-1/2	5	6	1 x 36 x 4	284	9.1	5.6	3.0	1.2	200
30	SSS5A30S	0.120	10-1/2	11	4-1/2	5	3/4 x 25 x 3	260	1.8	--	--	--	200
30	SSS5M30S	0.188	10-1/2	11	4-1/2	5	3/4 x 25 x 3	392	9.6	5.9	1.9	0.2	200
30	SSS6A30S	0.120	12-1/2	12-1/2	5	6	1 x 36 x 4	330	4.1	1.3	--	--	200
30	SSS6M30S	0.188	12-1/2	12-1/2	5	6	1 x 36 x 4	489	18.5	12.5	8.4	5.3	200
35	SSS5M35S	0.188	10-1/2	11	4-1/2	5	3/4 x 25 x 3	453	5.5	2.4	--	--	200
35	SSS6M35S	0.188	12-1/2	12-1/2	5	6	1 x 36 x 4	564	11.8	7.0	3.5	1.0	200
35	SSS6X35S	0.250	12-1/2	12-1/2	5	6	1 x 36 x 4	738	16.0	10.5	6.4	3.4	200
39	SSS6M39S	0.188	12-1/2	12-1/2	5	6	1 x 36 x 4	618	7.0	2.4	--	--	300
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NOTES:

1. Catalog number includes pole with hardware kit. Anchor bolts not included. Before installing, make sure proper anchor bolts and templates are obtained.
2. Tenon size or machining for rectangular arms must be specified. Hand hole position relative to drill location.
3. Shaft size, base square, anchor bolts and projections may vary slightly. All dimensions nominal.
4. EPAs based on shaft properties with wind normal to flat. EPAs calculated using base wind velocity as indicated plus 30% gust factor.