



11-15-22

Deanna Schmidt, AICP
City Planner & Zoning Administrator
City of Fitchburg
5520 Lacy Road
Fitchburg, WI 53711

RE: North Fish Hatchery Road HUB Phase 1

Dear Deanna,

On behalf of the City of Fitchburg, I am submitting information on the proposed North Fish Hatchery Road HUB project for both an Architectural Design Review and a Conditional Use Permit. The proposed community development will be located on Outlot 1 of CSM #15059 with a proposed address of 2220 Traceway Drive.

The HUB project will consist of multiple recreational components to be built on an existing open parcel which currently contains an asphalt surface parking lot. The project, a part of the City of Fitchburg's Healthy Neighborhood Initiative, will feature a 3,889 sqft. community park building, a playground area, asphalt basketball/pickleball court, bike park and 25 onsite parking stalls for park users.

The property is currently zoned P-R and will maintain its current zoning, we are asking for a conditional use to reduce the front yard setback from 25'-0" down to 10'-0" off the South property line to the building per the revision to section 22-564 of the City of Fitchburg zoning code. The reduction of the front set back allows the building to have more of presence along Traceway Drive and to maintain a requested fire access lane around the building.

The project will meet redevelopment stormwater standards for the existing impervious area on site and development stormwater standards for all additional impervious areas. There will be two bioretention facilities located on opposite ends of the site that will collect as much surface and roof runoff as possible. These facilities will connect into the storm sewer system along Traceway Drive.

As an option you will see an additional sheet C121A included within the set of drawings. We are proposing a revision to the site plan to raise the elevation of the building up 2'-4" +/- to allow for a reduction of the amount of grade will be required to hauled off the site to match up grades along the street. The elevation raise will require a set of stairs and an ADA ramp to be installed at the South entrance to the building to maintain accessible entrances to all sides of the building, this can be seen in the partial rendering included on the sheet. The access to the front doors off Traceway Drive will be approached from the East off the main spine, we feel this revision will provide an additional benefit by separating the main entrance from the traffic on the 8'-0" sidewalk that is required to be installed.

Enclosed are the following materials for the submittal:

ADR Application
Conditional Use Permit Application
Design Development Drawing Package
Proposed Exterior Materials Exhibit
Proposed Exterior Lighting Cut sheets

If you have a questions or concerns about the submitted materials, please feel free to give me a call to discuss at 608-250-7511

Sincerely,

A handwritten signature in black ink, appearing to read "Mike Zuehlke", with a stylized, cursive script.

Mike Zuehlke, Architect
Senior Associate

Copied **Scott Endl** | City of Fitchburg Parks, Recreation & Forestry
EA File Name: Y:\Madison Projects\2020 3139\203284 NFH Hub\1-Project Administration\6-Codes\Zoning\ADR -
CU Submittal\NFH ADR Cover Letter.Docx



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

ARCHITECTURAL & DESIGN REVIEW APPLICATION

Applicant/Contact Person: Mike Zuehlke Engberg Anderson

Address: 305 W Washington Ave.

Phone Number of Contact Person: 608-250-7511

City, State, Zip Code: Madison, WI 53703

Email of Contact Person: mikez@engberganderson.com

Project Address: 2220 Traceway Drive

Lot: Outlot 1

Subdivision: CSM 15059

Project Type: ☐ **Multi-Family** ☐ **Commercial** ☐ **Industrial** ☐ **Recreational** ☐ **Other**
☒ **New** ☐ **Addition**

Impervious Surface Ratio (ISR): 48.9% (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, including grading plan.
- ☒ 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, including trash/recycling enclosure(s).
- ☒ 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. ← to be forwarded shortly
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: 11-15-22

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

CONDITIONAL USE PERMIT APPLICATION

The undersigned owner, or owner's authorized agent, of property herein described hereby applies for a conditional use permit for the following described property:

1. Location of Property:

Street Address: 2220 Traceway Drive

Legal Description - (Metes & Bounds, or Lot No. And Plat):

OUTLOT 1 CSM 15059 CS106/227&231-3/4/2019 F/K/A LOT 2 CSM 12276 CS76/75&77-10/8/2007 & ALSO F/K/A LOTS 3 & 4 CSM 12064 CS74/196&203-2/12/2007 DESCR AS SEC 3-6-9 PRT SE1/4NW1/4 & PRT SW1/4NE1/4 (1.780 ACRES)

***Also submit in electronic format (MS WORD or plain text) by email to: **PLANNING@FITCHBURGWI.GOV**

2. Current Use of Property: Outlot - Vacant

3. Proposed Use of Property: Community Park

4. Proposed Development Schedule: Spring 2023-Spring 2024

5. Zoning District: Parks and Recreation

6. Future Land Use Plan Classification: HDR - High Density Residential

***Pursuant to Section 22-3(b) of the Fitchburg Zoning Ordinance, all Conditional Use Permits shall be consistent with the currently adopted City of Fitchburg Comprehensive Plan.

***Attach three (3) copies of a site plan which shows any proposed land divisions, plus vehicular access points and the location and size of all existing and proposed structures and parking areas. Two (2) of the three (3) copies shall be no larger than 11" x 17". Submit one (1) pdf document of the entire submittal to planning@fitchburgwi.gov.

Additional information may be requested.

Type of Residential Development (If Applicable): n/a

No. of Dwelling Units by Bedroom: 1 BR ☐ 2 BR ☐ 3 BR ☐ 4 or More ☐

No. Of Parking Stalls: 25

Type of Non-residential Development (If Applicable): Recreational Park

Proposed Hours of Operation: Dawn-Dusk **No. Of Employees:** Unknown

Floor Area: 3,889 sf **No. Of Parking Stalls:** 25

Sewer: Municipal ☒ Private ☐ **Water:** Municipal ☒ Private ☐

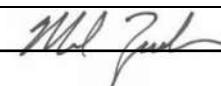
Current Owner of Property: City of Fitchburg

Address: 2220 Traceway Drive **Phone No:** n/a

Contact Person: Scott Endl - Parks, Rec & Forestry Director

Email: scott.endl@fitchburgwi.gov

Address: 5520 Lacy Road **Phone No:** 608-270-4288

Respectfully Submitted By: 

Owner's or Authorized Agent's Signature

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

PLEASE NOTE - Applicants shall be responsible for legal or outside consultant costs incurred by the City. Submissions shall be made at least four (4) weeks prior to desired plan commission meeting.

For City Use Only: **Date Received:** 11/16/2022 **Publish:**

Ordinance Section No. **Fee Paid:** N/A City Project

Permit Request No. CU-2488-22

Project	HUB FACILITY	Catalog #		Type	OA & OB
Prepared by		Notes		Date	



McGraw-Edison

GLEON Galleon

Area / Site Luminaire

Product Features



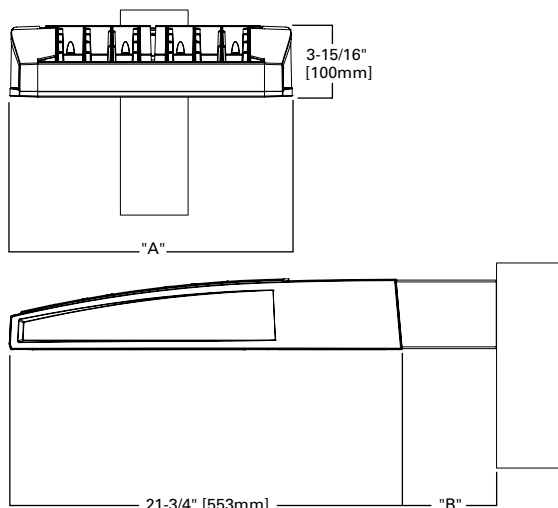
Interactive Menu

- Ordering Information page 2
- Mounting Details page 3
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- Energy and Performance Data page 4
- Control Options page 9

Quick Facts

- Lumen packages range from 4,200 - 80,800 (34W - 640W)
- Efficacy up to 156 lumens per watt
- Options to meet Buy American and other domestic preference requirements

Dimensional Details



NOTES:
1. Visit <https://www.designlights.org/search/> to confirm qualification. Not all product variations are DLC qualified.
2. IDA Certified for 3000K CCT and warmer only.

Product Certifications



Connected Systems

- WaveLinX
- Enlighted

Number of Light Squares	"A" Width	"B" Standard Arm Length	"B" Extended Arm Length ¹	"B" Quick Mount Arm Length	"B" Quick Mount Extended Arm Length
1-4	15-1/2"	7"	10"	10-5/8"	16-9/16"
5-6	21-5/8"	7"	10"	10-5/8"	16-9/16"
7-8	27-5/8"	7"	13"	10-5/8"	—
9-10	33-3/4"	7"	16"	—	—

NOTES:
For arm selection requirements and additional line art, see Mounting Details section.

Ordering Information

SAMPLE NUMBER: GLEON-SA4C-740-U-T4FT-GM

Product Family ^{1, 2}	Light Engine		Color Temperature	Voltage	Distribution	Mounting	Finish
	Configuration	Drive Current					
GLEON =Galleon BAA-GLEON =Galleon, Buy American Act Compliant ³⁵ TAA-GLEON =Galleon, Trade Agreements Act Compliant ²⁵	SA1 =1 Square SA2 =2 Squares SA3 =3 Squares SA4 =4 Squares SA5 =5 Squares ⁴ SA6 =6 Squares SA7 =7 Squares ⁵ SA8 =8 Squares ⁵ SA9 =9 Squares ⁶ SA0 =10 Squares ⁶	A =600mA B =800mA C =1000mA D =1200mA ¹⁶	722 =70CRI, 2200K 727 =70CRI, 2700K 730 =70CRI, 3000K 735 =70CRI, 3500K 740 =70CRI, 4000K 750 =70CRI, 5000K 760 =70CRI, 6000K 827 =80CRI, 2700K 830 =80CRI, 3000K AMB =Amber, 590nm ^{14, 16}	U =120-277V 1=120V 2=208V 3=240V 4=277V 8=480V ^{7, 8} 9=347V 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	[Blank] =Arm for Round or Square Pole EA =Extended Arm ⁹ MA =Mast Arm Adapter ¹⁰ WM =Wall Mount QM =Quick Mount Arm (Standard Length) ¹¹ QML =Quick Mount Arm (Standard Length, Large) ³⁷ QMEA =Quick Mount Arm (Extended Length) ¹²	AP =Grey BZ =Bronze BK =Black DP =Dark Platinum GM =Graphite Metallic WH =White RALXX =Custom Color
Options (Add as Suffix)			Controls and Systems Options (Add as Suffix)			Accessories (Order Separately) ³⁸	
DIM =External 0-10V Dimming Leads ^{19, 20} F =Single Fuse (120, 277 or 347V Specify Voltage) FF =Double Fuse (208, 240 or 480V Specify Voltage) 20K =Series 20kV UL 1449 Surge Protective Device 2L =Two Circuits ^{17, 18} HA =50°C High Ambient HSS =Installed House Side Shield ²⁸ GRSBK =Glare Reducing Shield, Black ²³ GRSWH =Glare Reducing Shield, White ²³ LCF =Light Square Trim Painted to Match Housing ²⁷ MT =Installed Mesh Top TH =Tool-less Door Hardware CC =Coastal Construction finish ³ L90 =Optics Rotated 90° Left R90 =Optics Rotated 90° Right CE =CE Marking ²⁹ AHD145 =After Hours Dim, 5 Hours ²² AHD245 =After Hours Dim, 6 Hours ²² AHD255 =After Hours Dim, 7 Hours ²² AHD355 =After Hours Dim, 8 Hours ²² DALI =DALI Drivers			BPC =Button Type Photocontrol PR =NEMA 3-PIN Photocontrol Receptacle PR7 =NEMA 7-PIN Photocontrol Receptacle ²¹ SPB2 =Dimming Occupancy Sensor with Bluetooth Interface, 8' - 20' Mounting ³⁴ SPB4 =Dimming Occupancy Sensor with Bluetooth Interface, 21' - 40' Mounting ³⁴ MS-L20 =Motion Sensor for ON/OFF Operation, 9' - 20' Mounting Height ²⁴ MS-L40W =Motion Sensor for ON/OFF Operation, 21' - 40' Mounting Height ²⁴ MS/X-L20 =Bi-Level Motion Sensor, 9' - 20' Mounting Height ^{24, 25} MS/X-L40W =Bi-Level Motion Sensor, 21' - 40' Mounting Height ^{24, 25} MS/DIM-L20 =Motion Sensor for Dimming Operation, 9' - 20' Mounting Height ²⁴ MS/DIM-L40W =Motion Sensor for Dimming Operation, 21' - 40' Mounting Height ²⁴ ZW =WaveLinX Module and 4-PIN Receptacle ZD =WaveLinX Module with DALI driver and 4-PIN Receptacle SWPD4XX =WaveLinX Sensor Only, 7'-15' ^{13, 32, 33} SWPD5XX =WaveLinX Sensor Only, 15'-40' ^{13, 32, 33} WOBXX =WaveLinX Sensor with Bluetooth, 7'-15' ^{13, 32} WOFXX =WaveLinX Sensor with Bluetooth, 15'-40' ^{13, 32} LWR-LW =Enlightened Sensor, 8'-16' Mounting Height ²⁶ LWR-LN =Enlightened Sensor, 16'-40' Mounting Height ²⁶ DIM10-MS/DIM-L08 =Synapse Occupancy Sensor (<8' Mounting) ¹⁹ DIM10-MS/DIM-L20 =Synapse Occupancy Sensor (9'-20' Mounting) ¹⁹ DIM10-MS/DIM-L40 =Synapse Occupancy Sensor (21'-40' Mounting) ¹⁹			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 ²⁴ 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 ¹¹ GLEON-QMEA =Quick Mount Extended Arm Kit ¹² LS/HSS =Field Installed House Side Shield ^{28, 30} LS/GRSBK =Glare Reducing Shield, Black ^{23, 30} LS/GRSWH =Glare Reducing Shield, White ^{23, 30} LS/PFS =Perimeter Shield, Black ¹⁵ WOLC-7P-10A =WaveLinX Outdoor Control Module ^{19, 31} SWPD4-XX =Wavelinx Wireless Sensor, 7'-15' Mounting Height ^{13, 19, 32, 33} SWPD5-XX =Wavelinx Wireless Sensor, 15'-40' Mounting Height ^{13, 19, 32, 33}	
NOTES: 1. Customer is responsible for engineering analysis to confirm pole and fixture compatibility for all applications. Refer to our white paper WP513001EN for additional support information. 2. DesignLights Consortium® Qualified. Refer to www.designlights.org Qualified Products List under Family Models for details. 3. Coastal construction finish salt spray tested to over 5,000-hours per ASTM B117, with a scribe rating of 9 per ASTM D1654. Not available with TH option. 4. Not compatible with MS/4-LXX or MS/1-LXX sensors. 5. Not compatible with extended quick mount arm (QMEA). 6. Not compatible with standard quick mount arm (QM) or extended quick mount arm (QMEA). 7. 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. 8. 480V must utilize Wye system only. 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.) 9. May be required when two or more luminaires are oriented on a 90° or 120° drilling pattern. Refer to arm mounting requirement table. 10. Factory installed. 11. Maximum 8 light squares. 12. Maximum 6 light squares. 13. Requires ZW or ZD receptacle. 14. Narrow-band 590nm +/- 5nm for wildlife and observatory use. Choose drive current A; supplied at 500mA drive current only. Available with 5WQ, 5MQ, SL2, SL3 and SL4 distributions. Can be used with HSS option. 15. Set of 4 pcs. One set required per Light Square. 16. Not available with HA option. 17. 2L is not available with MS, MS/X or MS/DIM at 347V or 480V. 2L in SA2 through SA4 requires a larger housing, normally used for SA5 or SA6. Extended arm option may be required when mounting two or more fixtures per pole at 90° or 120°. Refer to arm mounting requirement table. 18. Not available with Enlightened wireless sensors. 19. Cannot be used with other control options. 20. Low voltage control lead brought out 18" outside fixture. 21. Not available if any "MS" sensor is selected. Motion sensor has an integral photocell. 22. Requires the use of BPC photocontrol or the PR7 or PR photocontrol receptacle with photocontrol accessory. See After Hours Dim supplemental guide for additional information. 23. Not for use with T4FT, T4W or SL4 optics. See IES files for details. 24. 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 Cooper Lighting Solutions for more information. 25. Replace X with number of Light Squares operating in low output mode. 26. Enlightened wireless sensors are factory installed only requiring network components LWP-EM-1, LWP-GW-1 and LWP-PoE8 in appropriate quantities. 27. Not available with house side shield (HSS). 28. Not for use with 5NQ, 5MQ, 5WQ or RW optics. A black trim plate is used when HSS is selected. 29. CE is not available with the LWR, MS, MS/X, MS/DIM, BPC, PR or PR7 options. Available in 120-277V only. 30. One required for each Light Square. 31. Requires PR7. 32. Replace XX with sensor color (WH, BZ or BK.) 33. WAC Gateway required to enable field-configurability: Order WAC-PoE and WPOE-120 (10V to PoE injector) power supply if needed. 34. Smart device with mobile application required to change system defaults. See controls section for details. 35. Only product configurations with these designated prefixes are built to be compliant with the Buy American Act of 1933 (BAA) or Trade Agreements Act of 1979 (TAA), respectively. Please refer to DOMESTIC PREFERENCES website for more information. Components shipped separately may be separately analyzed under domestic preference requirements. 36. For BAA or TAA requirements, Accessories sold separately will be separately analyzed under domestic preference requirements. Consult factory for further information. 37. Available for 7-10 squares.							

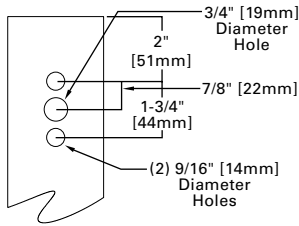
LumenSafe Integrated Network Security Camera Technology Options (Add as Suffix)

Product Family	Camera Type	Data Backhaul
L =LumenSafe Technology 	D =Standard Dome Camera H =Hi-Res Dome Camera Z =Remote PTZ Camera	C =Cellular, No SIM A =Cellular, AT&T V =Cellular, Verizon S =Cellular, Sprint R =Cellular, Rogers W =Wi-Fi Networking w/ Omni-Directional Antenna E =Ethernet Networking

Mounting Details

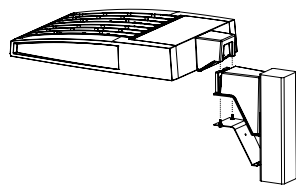
Standard Arm (Drilling Pattern)

TYPE "N"

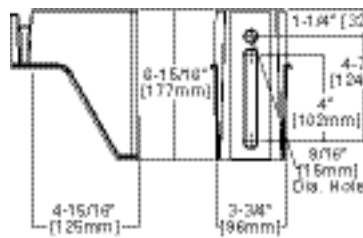


Quick Mount Arm

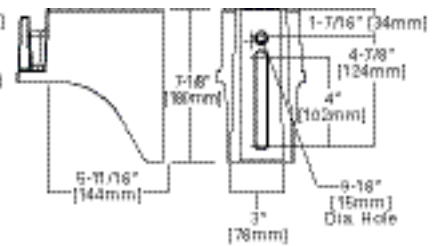
(Includes fixture adapter)



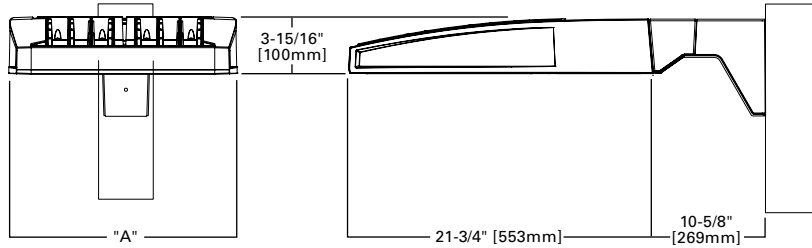
QM and QMEA Pole Mount



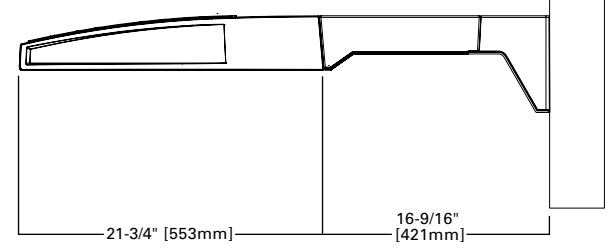
QML Pole Mount



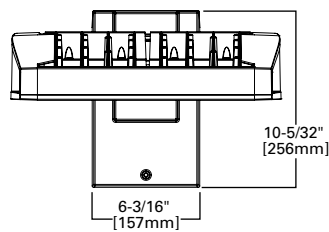
QM Quick Mount Arm (Standard)



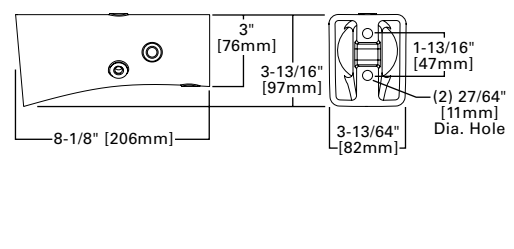
QMEA Quick Mount Arm (Extended)



Standard Wall Mount

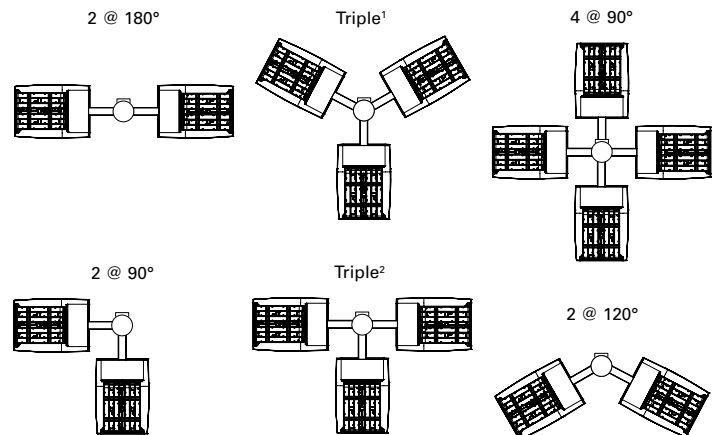


Mast Arm Mount



Arm Mounting Requirements

Number of Light Squares	Standard Arm @ 90° Apart	Standard Arm @ 120° Apart	Quick Mount Arm @ 90° Apart	Quick Mount Arm @ 120° Apart
1	Standard	Standard	QM Extended	Quick Mount
2	Standard	Standard	QM Extended	Quick Mount
3	Standard	Standard	QM Extended	Quick Mount
4	Standard	Standard	QM Extended	Quick Mount
5	Extended	Standard	QM Extended	Quick Mount
6	Extended	Standard	QM Extended	Quick Mount
7	Extended	Extended	--	Quick Mount
8	Extended	Extended	--	Quick Mount
9	Extended	Extended	--	--
10	Extended	Extended	--	--

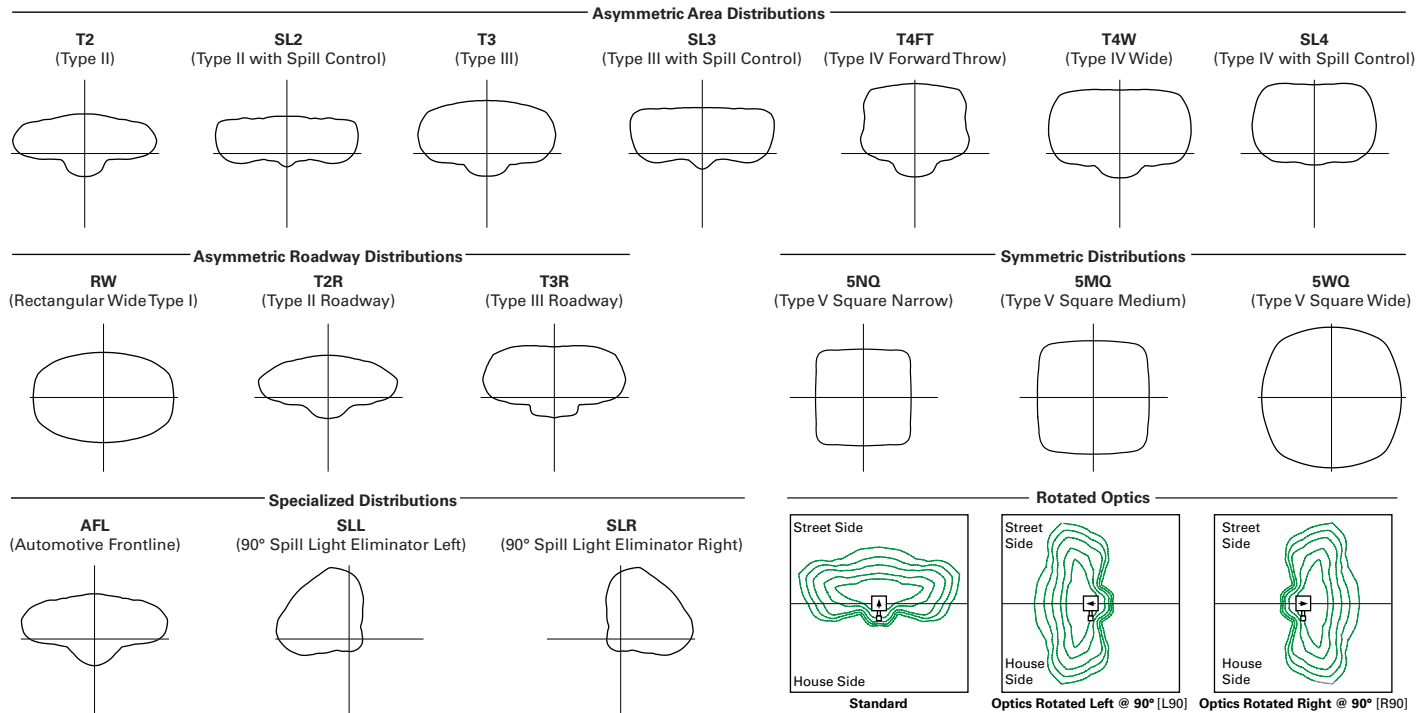


NOTES: 1 Round poles are 3 @ 120°. Square poles are 3 @ 90°. 2 Round poles are 3 @ 90°. 3 Shown with 4 square configurations

Fixture Weights and EPAs

Number of Light Squares	Weight with Standard and Extended Arm (lbs.)	EPA with Standard and Extended Arm (Sq. Ft.)	Weight with QM Arm (lbs.)	EPA with QM Arm (Sq. Ft.)	Weight with QML (lbs.)	EPA with QML (Sq. Ft.)	Weight with QMEA (lbs.)	EPA with QMEA (Sq. Ft.)
1-4	33	0.96	35	1.11	--	--	38	1.11
5-6	44	1.00	46	1.11	--	--	49	1.11
7-8	54	1.07	56	1.11	58	1.11	--	--
9-10	63	1.12	--	--	67	1.11	--	--

Optical Distributions



Product Specifications

Construction

- Extruded aluminum driver enclosure
- Heavy-wall, die-cast aluminum end caps
- Die-cast aluminum heat sinks
- Patent pending interlocking housing and heat sink

Optics

- Patented, high-efficiency injection-molded AccuLED Optics technology
- 16 optical distributions
- 3 shielding options including HSS, GRS and PFS
- IDA Certified (3000K CCT and warmer only)

Electrical

- LED drivers are mounted to removable tray

- assembly for ease of maintenance
- Standard with 0-10V dimming
- Standard with Cooper Lighting Solutions proprietary circuit module designed to withstand 10kV of transient line surge
- Suitable for operation in -40°C to 40°C ambient environments. Optional 50°C high ambient (HA) configuration.

Mounting

- Standard extruded arm includes internal bolt guides and round pole adapter
- Extended arms (EA and QMEA) may be required in 90° or 120° pole mount configurations, see arm mounting requirements table

- Mast arm (MA) factory installed
- Wall mount (WM) option available
- Quick mount arm (QM and QMEA) includes pole adapter and factory installed fixture mount for fast installation to square or round poles

Finish

- Super housing durable TGIC polyester powder coat paint, 2.5 mil nominal thickness
- Heat sink is powder coated black
- RAL and custom color matches available
- Coastal Construction (CC) option available

Warranty

- Five year warranty

Energy and Performance Data

Lumen Maintenance (TM-21)

Drive Current	Ambient Temperature	25,000 hours*	50,000 hours*	60,000 hours*	100,000 hours**	Theoretical L70 hours**
Up to 1A	25°C	99.4%	99.0%	98.9%	98.3%	> 2.4M
	40°C	98.7%	98.3%	98.1%	97.4%	> 1.9M
	50°C	98.2%	97.2%	96.8%	95.2%	> 851,000
1.2A	25°C	99.4%	99.0%	98.9%	98.3%	> 2.4M
	40°C	98.5%	97.9%	97.7%	96.7%	> 1.3M

* Supported by IES TM-21 standards

** Theoretical values represent estimations commonly used; however, refer to the IES position on LED Product Lifetime Prediction, IES PS-10-18, explaining proper use of IES TM-21 and LM-80.

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



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Nominal Power Lumens (1.2A)

 Supplemental Performance Guide**

Number of Light Squares		1	2	3	4	5	6	7	8	9	10
Nominal Power (Watts)		67	129	191	258	320	382	448	511	575	640
Input Current @ 120V (A)		0.58	1.16	1.78	2.31	2.94	3.56	4.09	4.71	5.34	5.87
Input Current @ 208V (A)		0.33	0.63	0.93	1.27	1.57	1.87	2.22	2.52	2.8	3.14
Input Current @ 240V (A)		0.29	0.55	0.80	1.10	1.35	1.61	1.93	2.18	2.41	2.71
Input Current @ 277V (A)		0.25	0.48	0.70	0.96	1.18	1.39	1.69	1.90	2.09	2.36
Input Current @ 347V (A)		0.20	0.39	0.57	0.78	0.96	1.15	1.36	1.54	1.72	1.92
Input Current @ 480V (A)		0.15	0.30	0.43	0.60	0.73	0.85	1.03	1.16	1.28	1.45
Optics											
T2	4000K Lumens	7,972	15,580	23,245	30,714	38,056	45,541	53,857	61,024	68,072	75,366
	BUG Rating	B1-U0-G2	B2-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5
	Lumens per Watt	119	121	122	119	119	119	120	119	118	118
T2R	4000K Lumens	8,462	16,539	24,680	32,609	40,401	48,348	57,176	64,783	72,266	80,010
	BUG Rating	B1-U0-G2	B2-U0-G2	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5
	Lumens per Watt	126	128	129	126	126	127	128	127	126	125
T3	4000K Lumens	8,125	15,879	23,693	31,307	38,787	46,417	54,893	62,197	69,381	76,818
	BUG Rating	B1-U0-G2	B2-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5
	Lumens per Watt	121	123	124	121	121	122	123	122	121	120
T3R	4000K Lumens	8,306	16,232	24,220	32,001	39,651	47,447	56,114	63,580	70,924	78,523
	BUG Rating	B1-U0-G2	B2-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5
	Lumens per Watt	124	126	127	124	124	124	125	124	123	123
T4FT	4000K Lumens	8,173	15,970	23,831	31,488	39,014	46,686	55,212	62,558	69,783	77,261
	BUG Rating	B1-U0-G3	B2-U0-G3	B3-U0-G4	B3-U0-G5	B3-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5
	Lumens per Watt	122	124	125	122	122	122	123	122	121	121
T4W	4000K Lumens	8,067	15,764	23,522	31,080	38,510	46,082	54,499	61,751	68,881	76,263
	BUG Rating	B2-U0-G2	B3-U0-G3	B3-U0-G4	B3-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5	B5-U0-G5
	Lumens per Watt	120	122	123	120	120	121	122	121	120	119
SL2	4000K Lumens	7,958	15,552	23,206	30,662	37,989	45,462	53,763	60,920	67,952	75,235
	BUG Rating	B2-U0-G3	B3-U0-G3	B3-U0-G4	B3-U0-G5	B3-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5
	Lumens per Watt	119	121	121	119	119	119	120	119	118	118
SL3	4000K Lumens	8,124	15,877	23,690	31,302	38,784	46,410	54,885	62,189	69,372	76,805
	BUG Rating	B1-U0-G2	B2-U0-G3	B3-U0-G4	B3-U0-G5	B3-U0-G5	B3-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5
	Lumens per Watt	121	123	124	121	121	121	123	122	121	120
SL4	4000K Lumens	7,719	15,085	22,510	29,741	36,850	44,097	52,148	59,089	65,913	72,977
	BUG Rating	B1-U0-G3	B2-U0-G4	B2-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5	B4-U0-G5	B4-U0-G5
	Lumens per Watt	115	117	118	115	115	115	116	116	115	114
5NQ	4000K Lumens	8,380	16,375	24,436	32,287	40,003	47,870	56,610	64,144	71,552	79,221
	BUG Rating	B3-U0-G1	B3-U0-G2	B4-U0-G2	B5-U0-G2	B5-U0-G3	B5-U0-G3	B5-U0-G4	B5-U0-G4	B5-U0-G4	B5-U0-G4
	Lumens per Watt	125	127	128	125	125	125	126	126	124	124
5MQ	4000K Lumens	8,534	16,676	24,885	32,881	40,739	48,752	57,653	65,326	72,868	80,679
	BUG Rating	B3-U0-G2	B4-U0-G2	B5-U0-G3	B5-U0-G4	B5-U0-G4	B5-U0-G4	B5-U0-G5	B5-U0-G5	B5-U0-G5	B5-U0-G5
	Lumens per Watt	127	129	130	127	127	128	129	128	127	126
5WQ	4000K Lumens	8,556	16,723	24,951	32,968	40,847	48,881	57,808	65,499	73,063	80,894
	BUG Rating	B3-U0-G2	B4-U0-G2	B5-U0-G3	B5-U0-G4	B5-U0-G4	B5-U0-G5	B5-U0-G5	B5-U0-G5	B5-U0-G5	B5-U0-G5
	Lumens per Watt	128	130	131	128	128	128	129	128	127	126
SLL/ SLR	4000K Lumens	7,140	13,951	20,817	27,506	34,081	40,783	48,231	54,649	60,959	67,492
	BUG Rating	B1-U0-G3	B2-U0-G3	B3-U0-G4	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5
	Lumens per Watt	107	108	109	107	107	107	108	107	106	105
RW	4000K Lumens	8,304	16,228	24,215	31,994	39,641	47,437	56,100	63,566	70,907	78,504
	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
	Lumens per Watt	124	126	127	124	124	124	125	124	123	123
AFL	4000K Lumens	8,335	16,287	24,302	32,110	39,784	47,610	56,303	63,796	71,163	78,790
	BUG Rating	B1-U0-G1	B2-U0-G2	B3-U0-G2	B3-U0-G3	B3-U0-G3	B3-U0-G3	B4-U0-G4	B4-U0-G4	B4-U0-G4	B4-U0-G5
	Lumens per Watt	124	126	127	124	124	125	126	125	124	123

* Nominal data for 70 CRI. ** For additional performance data, please reference the Galleon Supplemental Performance Guide.

Nominal Power Lumens (1A)

 Supplemental Performance Guide**

Number of Light Squares		1	2	3	4	5	6	7	8	9	10
Nominal Power (Watts)		59	113	166	225	279	333	391	445	501	558
Input Current @ 120V (A)		0.51	1.02	1.53	2.03	2.55	3.06	3.56	4.08	4.60	5.07
Input Current @ 208V (A)		0.29	0.56	0.82	1.11	1.37	1.64	1.93	2.19	2.46	2.75
Input Current @ 240V (A)		0.26	0.48	0.71	0.96	1.19	0.41	1.67	1.89	2.12	2.39
Input Current @ 277V (A)		0.23	0.42	0.61	0.83	1.03	1.23	1.45	1.65	1.84	2.09
Input Current @ 347V (A)		0.17	0.32	0.50	0.64	0.82	1.00	1.14	1.32	1.50	1.68
Input Current @ 480V (A)		0.14	0.24	0.37	0.48	0.61	0.75	0.91	0.99	1.12	1.28
Optics											
T2	4000K Lumens	7,267	14,201	21,190	28,000	34,692	41,515	49,096	55,627	62,053	68,703
	BUG Rating	B1-U0-G2	B2-U0-G3	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5
	Lumens per Watt	123	126	128	124	124	125	126	125	124	123
T2R	4000K Lumens	7,715	15,077	22,497	29,725	36,829	44,073	52,122	59,056	65,876	72,937
	BUG Rating	B1-U0-G2	B2-U0-G2	B3-U0-G3	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5
	Lumens per Watt	131	133	136	132	132	132	133	133	131	131
T3	4000K Lumens	7,408	14,475	21,598	28,539	35,358	42,313	50,039	56,698	63,246	70,024
	BUG Rating	B1-U0-G2	B2-U0-G2	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5
	Lumens per Watt	126	128	130	127	127	127	128	127	126	125
T3R	4000K Lumens	7,571	14,798	22,078	29,172	36,145	43,253	51,153	57,959	64,653	71,581
	BUG Rating	B1-U0-G2	B2-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5
	Lumens per Watt	128	131	133	130	130	130	131	130	129	128
T4FT	4000K Lumens	7,451	14,559	21,725	28,703	35,564	42,558	50,330	57,027	63,613	70,430
	BUG Rating	B1-U0-G2	B2-U0-G3	B3-U0-G4	B3-U0-G5	B3-U0-G5	B3-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5
	Lumens per Watt	126	129	131	128	127	128	129	128	127	126
T4W	4000K Lumens	7,354	14,371	21,442	28,333	35,105	42,007	49,681	56,291	62,792	69,521
	BUG Rating	B1-U0-G2	B2-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5
	Lumens per Watt	125	127	129	126	126	126	127	126	125	125
SL2	4000K Lumens	7,254	14,178	21,155	27,951	34,631	41,443	49,011	55,533	61,944	68,584
	BUG Rating	B1-U0-G2	B2-U0-G3	B3-U0-G4	B3-U0-G5	B3-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5
	Lumens per Watt	123	125	127	124	124	124	125	125	124	123
SL3	4000K Lumens	7,406	14,474	21,596	28,534	35,355	42,307	50,033	56,690	63,237	70,014
	BUG Rating	B1-U0-G2	B2-U0-G3	B3-U0-G4	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5
	Lumens per Watt	126	128	130	127	127	127	128	127	126	125
SL4	4000K Lumens	7,037	13,751	20,519	27,112	33,592	40,198	47,538	53,864	60,087	66,524
	BUG Rating	B1-U0-G3	B2-U0-G4	B2-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5	B4-U0-G5
	Lumens per Watt	119	122	124	120	120	121	122	121	120	119
5NQ	4000K Lumens	7,640	14,928	22,275	29,431	36,465	43,637	51,606	58,472	65,226	72,218
	BUG Rating	B3-U0-G1	B3-U0-G2	B4-U0-G2	B5-U0-G2	B5-U0-G3	B5-U0-G3	B5-U0-G4	B5-U0-G4	B5-U0-G4	B5-U0-G4
	Lumens per Watt	129	132	134	131	131	131	132	131	130	129
5MQ	4000K Lumens	7,779	15,203	22,684	29,973	37,137	44,441	52,555	59,549	66,427	73,545
	BUG Rating	B3-U0-G2	B4-U0-G2	B5-U0-G3	B5-U0-G3	B5-U0-G4	B5-U0-G4	B5-U0-G5	B5-U0-G5	B5-U0-G5	B5-U0-G5
	Lumens per Watt	132	135	137	133	133	133	134	134	133	132
5WQ	4000K Lumens	7,800	15,243	22,744	30,052	37,236	44,560	52,697	59,708	66,603	73,742
	BUG Rating	B3-U0-G2	B4-U0-G2	B5-U0-G3	B5-U0-G4	B5-U0-G4	B5-U0-G5	B5-U0-G5	B5-U0-G5	B5-U0-G5	B5-U0-G5
	Lumens per Watt	132	135	137	134	133	134	135	134	133	132
SL/SLR	4000K Lumens	6,510	12,719	18,977	25,075	31,067	37,176	43,967	49,817	55,569	61,525
	BUG Rating	B1-U0-G2	B2-U0-G3	B2-U0-G4	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5	B4-U0-G5	B4-U0-G5
	Lumens per Watt	110	113	114	111	111	112	112	112	111	110
RW	4000K Lumens	7,570	14,793	22,073	29,165	36,137	43,243	51,140	57,945	64,637	71,564
	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-G4	B5-U0-G5
	Lumens per Watt	128	131	133	130	130	130	131	130	129	128
AFL	4000K Lumens	7,598	14,847	22,154	29,272	36,267	43,400	51,326	58,156	64,872	71,824
	BUG Rating	B1-U0-G1	B2-U0-G2	B3-U0-G2	B3-U0-G3	B3-U0-G3	B3-U0-G3	B4-U0-G4	B4-U0-G4	B4-U0-G4	B4-U0-G4
	Lumens per Watt	129	131	133	130	130	130	131	131	129	129

* Nominal data for 70 CRI. ** For additional performance data, please reference the Galleon Supplemental Performance Guide.

Nominal Power Lumens (800mA)

 Supplemental Performance Guide**

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 Lumens	5,871	11,474	17,121	22,622	28,029	33,542	39,667	44,944	50,134	55,508
	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
	Lumens per Watt	133	135	138	132	133	135	134	135	134	132
T2R	4000K Lumens	6,233	12,181	18,176	24,016	29,756	35,608	42,111	47,714	53,224	58,929
	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	B3-U0-G5	B4-U0-G5
	Lumens per Watt	142	143	147	140	142	143	143	143	142	141
T3	4000K Lumens	5,986	11,695	17,450	23,057	28,568	34,186	40,430	45,809	51,099	56,576
	BUG Rating	B1-U0-G2	B2-U0-G2	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5
	Lumens per Watt	136	138	141	135	136	137	137	137	137	135
T3R	4000K Lumens	6,117	11,955	17,838	23,569	29,203	34,946	41,328	46,827	52,235	57,832
	BUG Rating	B1-U0-G2	B2-U0-G2	B2-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5	B3-U0-G5	B4-U0-G5	B4-U0-G5
	Lumens per Watt	139	141	144	138	139	140	140	140	140	138
T4FT	4000K Lumens	6,019	11,763	17,551	23,190	28,734	34,384	40,663	46,074	51,396	56,904
	BUG Rating	B1-U0-G2	B2-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5	B3-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5
	Lumens per Watt	137	138	142	136	137	138	138	138	137	136
T4W	4000K Lumens	5,942	11,610	17,324	22,891	28,363	33,940	40,138	45,480	50,732	56,169
	BUG Rating	B1-U0-G2	B2-U0-G2	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5
	Lumens per Watt	135	137	140	134	135	136	136	136	136	134
SL2	4000K Lumens	5,862	11,454	17,091	22,583	27,980	33,484	39,598	44,867	50,048	55,411
	BUG Rating	B1-U0-G2	B2-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5
	Lumens per Watt	133	135	138	132	133	134	134	134	134	132
SL3	4000K Lumens	5,985	11,694	17,447	23,053	28,565	34,182	40,424	45,804	51,092	56,568
	BUG Rating	B1-U0-G2	B2-U0-G3	B2-U0-G3	B3-U0-G4	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5	B4-U0-G5
	Lumens per Watt	136	138	141	135	136	137	137	137	137	135
SL4	4000K Lumens	5,685	11,111	16,577	21,905	27,140	32,478	38,409	43,520	48,546	53,748
	BUG Rating	B1-U0-G2	B1-U0-G3	B2-U0-G4	B2-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5
	Lumens per Watt	129	131	134	128	129	130	130	130	130	128
5NQ	4000K Lumens	6,172	12,061	17,997	23,778	29,462	35,256	41,694	47,242	52,699	58,347
	BUG Rating	B2-U0-G1	B3-U0-G1	B4-U0-G2	B4-U0-G2	B5-U0-G2	B5-U0-G3	B5-U0-G3	B5-U0-G3	B5-U0-G4	B5-U0-G4
	Lumens per Watt	140	142	145	139	140	142	141	141	141	139
5MQ	4000K Lumens	6,285	12,283	18,328	24,217	30,004	35,907	42,462	48,112	53,669	59,421
	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
	Lumens per Watt	143	145	148	142	143	144	144	144	144	142
5WQ	4000K Lumens	6,303	12,317	18,377	24,281	30,085	36,001	42,575	48,241	53,812	59,579
	BUG Rating	B3-U0-G1	B4-U0-G2	B5-U0-G3	B5-U0-G3	B5-U0-G4	B5-U0-G4	B5-U0-G5	B5-U0-G5	B5-U0-G5	B5-U0-G5
	Lumens per Watt	143	145	148	142	143	145	144	144	144	142
SL/SLR	4000K Lumens	5,260	10,276	15,332	20,259	25,101	30,037	35,522	40,249	44,898	49,708
	BUG Rating	B1-U0-G2	B2-U0-G3	B2-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5
	Lumens per Watt	120	121	124	118	120	121	120	121	120	119
RW	4000K Lumens	6,116	11,952	17,834	23,563	29,196	34,938	41,317	46,817	52,224	57,819
	BUG Rating	B3-U0-G1	B3-U0-G2	B4-U0-G2	B4-U0-G2	B5-U0-G3	B5-U0-G3	B5-U0-G3	B5-U0-G4	B5-U0-G4	B5-U0-G4
	Lumens per Watt	139	141	144	138	139	140	140	140	140	138
AFL	4000K Lumens	6,139	11,996	17,899	23,650	29,302	35,064	41,468	46,987	52,412	58,030
	BUG Rating	B1-U0-G1	B2-U0-G2	B2-U0-G2	B3-U0-G2	B3-U0-G3	B3-U0-G3	B3-U0-G3	B3-U0-G3	B4-U0-G4	B4-U0-G4
	Lumens per Watt	140	141	144	138	140	141	141	141	140	138

* Nominal data for 70 CRI. ** For additional performance data, please reference the Galleon Supplemental Performance Guide.

Nominal Power Lumens (600mA)

 Supplemental Performance Guide**

Number of Light Squares		1	2	3	4	5	6	7	8	9	10
Nominal Power (Watts)		34	66	96	129	162	193	226	257	290	323
Input Current @ 120V (A)		0.30	0.58	0.86	1.16	1.44	1.73	2.03	2.33	2.59	2.89
Input Current @ 208V (A)		0.17	0.34	0.49	0.65	0.84	0.99	1.14	1.30	1.48	1.63
Input Current @ 240V (A)		0.15	0.30	0.43	0.56	0.74	0.87	1.00	1.13	1.30	1.43
Input Current @ 277V (A)		0.14	0.28	0.41	0.52	0.69	0.81	0.93	1.04	1.22	1.33
Input Current @ 347V (A)		0.11	0.19	0.30	0.39	0.49	0.60	0.69	0.77	0.90	0.99
Input Current @ 480V (A)		0.08	0.15	0.24	0.30	0.38	0.48	0.53	0.59	0.71	0.77
Optics											
T2	4000K Lumens	4,787	9,357	13,961	18,448	22,856	27,353	32,347	36,651	40,884	45,265
	BUG Rating	B1-U0-G1	B2-U0-G2	B2-U0-G3	B2-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5	B3-U0-G5
	Lumens per Watt	141	142	145	143	141	142	143	143	141	140
T2R	4000K Lumens	5,083	9,934	14,822	19,585	24,266	29,038	34,341	38,911	43,404	48,055
	BUG Rating	B1-U0-G1	B1-U0-G2	B2-U0-G2	B2-U0-G2	B3-U0-G3	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G5
	Lumens per Watt	150	151	154	152	150	150	152	151	150	149
T3	4000K Lumens	4,880	9,537	14,231	18,803	23,296	27,878	32,970	37,358	41,671	46,137
	BUG Rating	B1-U0-G1	B2-U0-G2	B2-U0-G2	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5	B4-U0-G5
	Lumens per Watt	144	145	148	146	144	144	146	145	144	143
T3R	4000K Lumens	4,988	9,749	14,547	19,220	23,814	28,497	33,703	38,188	42,598	47,162
	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
	Lumens per Watt	147	148	152	149	147	148	149	149	147	146
T4FT	4000K Lumens	4,909	9,591	14,312	18,911	23,432	28,040	33,161	37,574	41,913	46,404
	BUG Rating	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	B4-U0-G5
	Lumens per Watt	144	145	149	147	145	145	147	146	145	144
T4W	4000K Lumens	4,845	9,468	14,128	18,668	23,130	27,678	32,732	37,088	41,371	45,805
	BUG Rating	B1-U0-G2	B2-U0-G2	B2-U0-G3	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5	B4-U0-G5	B4-U0-G5
	Lumens per Watt	143	143	147	145	143	143	145	144	143	142
SL2	4000K Lumens	4,779	9,341	13,937	18,416	22,818	27,305	32,292	36,589	40,813	45,188
	BUG Rating	B1-U0-G2	B2-U0-G3	B2-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5	B3-U0-G5	B4-U0-G5	B4-U0-G5
	Lumens per Watt	141	142	145	143	141	141	143	142	141	140
SL3	4000K Lumens	4,879	9,536	14,229	18,800	23,294	27,874	32,965	37,351	41,666	46,130
	BUG Rating	B1-U0-G2	B1-U0-G3	B2-U0-G3	B2-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5
	Lumens per Watt	144	144	148	146	144	144	146	145	144	143
SL4	4000K Lumens	4,637	9,059	13,519	17,863	22,132	26,486	31,322	35,490	39,589	43,831
	BUG Rating	B1-U0-G2	B1-U0-G3	B2-U0-G4	B2-U0-G4	B2-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5
	Lumens per Watt	136	137	141	138	137	137	139	138	137	136
5NQ	4000K Lumens	5,033	9,835	14,676	19,392	24,026	28,751	34,002	38,526	42,975	47,581
	BUG Rating	B2-U0-G1	B3-U0-G1	B3-U0-G2	B4-U0-G2	B4-U0-G2	B4-U0-G2	B5-U0-G2	B5-U0-G3	B5-U0-G3	B5-U0-G3
	Lumens per Watt	148	149	153	150	148	149	150	150	148	147
5MQ	4000K Lumens	5,126	10,015	14,946	19,747	24,468	29,281	34,628	39,236	43,766	48,457
	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
	Lumens per Watt	151	152	156	153	151	152	153	153	151	150
5WQ	4000K Lumens	5,139	10,043	14,985	19,801	24,533	29,359	34,721	39,339	43,883	48,586
	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
	Lumens per Watt	151	152	156	153	151	152	154	153	151	150
SLL/ SLR	4000K Lumens	4,289	8,380	12,502	16,520	20,469	24,494	28,967	32,823	36,613	40,537
	BUG Rating	B1-U0-G2	B1-U0-G3	B2-U0-G3	B2-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5
	Lumens per Watt	126	127	130	128	126	127	128	128	126	126
RW	4000K Lumens	4,987	9,746	14,543	19,215	23,808	28,491	33,695	38,178	42,587	47,151
	BUG Rating	B2-U0-G1	B3-U0-G1	B4-U0-G2	B4-U0-G2	B4-U0-G2	B5-U0-G3	B5-U0-G3	B5-U0-G3	B5-U0-G4	B5-U0-G4
	Lumens per Watt	147	148	151	149	147	148	149	149	147	146
AFL	4000K Lumens	5,007	9,782	14,597	19,285	23,896	28,594	33,817	38,317	42,742	47,322
	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
	Lumens per Watt	147	148	152	149	148	148	150	149	147	147

* Nominal data for 70 CRI. ** For additional performance data, please reference the Galleon Supplemental Performance Guide.

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 (BPC, PR and PR7)

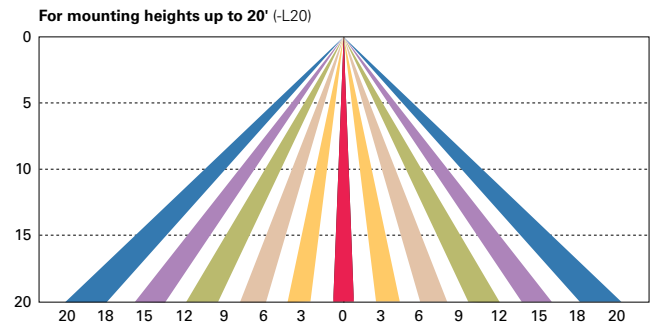
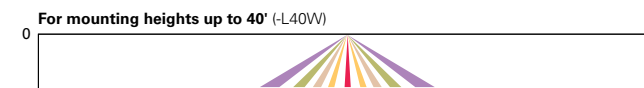
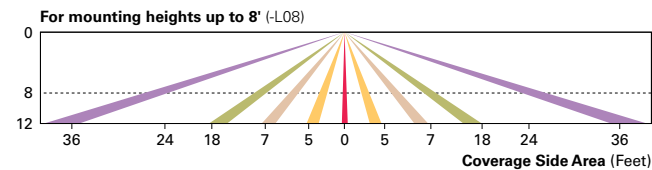
Optional button-type photocontrol (BPC) and photocontrol receptacles (PR and PR7) provide a flexible solution to enable "dusk-to-dawn" lighting by sensing light levels. Advanced control systems compatible with NEMA 7-pin standards can be utilized with the PR7 receptacle.

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.

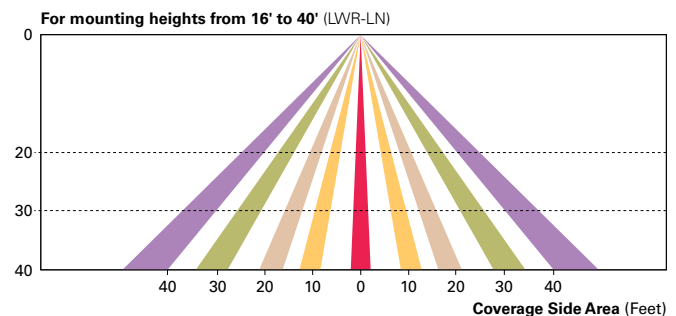
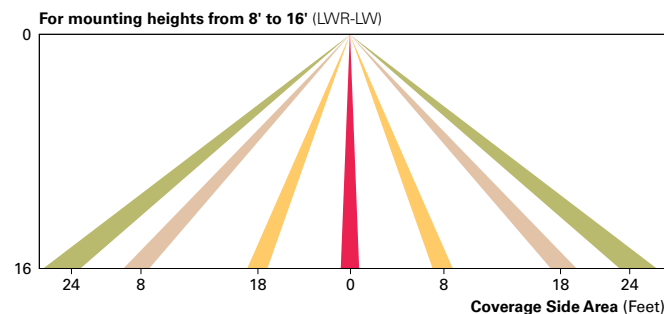
Dimming Occupancy Sensor (SPB, MS/DIM-LXX, MS/X-LXX and MS-LXX)

These sensors are factory installed in the luminaire housing. When the SPB or MS/DIM sensor options are 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. SPB motion sensors require the Sensor Configuration mobile application by Wattstopper to change factory default dimming level, time delay, sensitivity and other parameters. Available for iOS and Android devices. The SPB sensor is factory preset to dim down to approximately 10% power with a time delay of five minutes. The MS/DIM occupancy sensors require the FSIR-100 programming tool to adjust factory defaults.



Enlighted Wireless Control and Monitoring System (LWR-LW and LWR-LN)

Enlighted is a connected lighting solution that combines a broad selection of energy-efficient LED luminaires with a powerful integrated wireless sensor system. The sensor controls the lighting system in compliance with the latest energy codes and collects valuable data about building performance and use. Software applications turn the granular data into information through energy dashboards and specialized apps that make it simple and help optimize the use of building resources, beyond lighting.



WaveLinx Wireless Outdoor Lighting Control Module (WOLC-7P-10A)

The 7-pin wireless outdoor lighting control module enables WaveLinx to control outdoor area, site and flood lighting. WaveLinx controls outdoor lighting using schedules to provide ON, OFF and dimming controls based on astronomic or time schedules based on a 7 day week.

LumenSafe Integrated Network Security Camera (LD)

Cooper Lighting Solutions brings ease of camera deployment to a whole new level. No additional wiring is needed beyond providing line power to the luminaire. A variety of networking options allows security integrators to design the optimal solution for active surveillance. As the ideal solution to meet the needs for active surveillance, the LumenSafe integrated network camera is a streamlined, outdoor-ready fixed dome that provides HDTV 1080p video. This IP camera is optimally designed for deployment in the video management system or security software platform of choice.

Synapse (DIM10)

SimplySNAP integrated wireless controls system by Synapse. Includes factory installed DIM10 Synapse control module and MS/DC motion sensor; requires additional Synapse system components for operation. Contact Synapse at www.synapsewireless.com for product support, warranty and terms and conditions.

DESCRIPTION

The Invue Arbor post top brings architectural style to area/site and pedestrian scale applications. Its dayform appearance brings a desired organic look into the urban environment. WaveStream LED Optics provide a uniform pixelation free image, managing glare while providing high levels of visibility.

Catalog #		Type
Project	HUB FACILITY	OE & OF
Comments		Date
Prepared by		

SPECIFICATION FEATURES

Construction

Two-piece IP66 rated housing is cast from low copper content corrosion resistant aluminum, maintaining strength and precision to sustain long term dayform appearance. ANSI C136.31 testing compliance prevents damage from installation generated vibration. External hardware and casting seams are minimized to enhance appearance.

Optics

Specifically designed for pedestrian applications, WaveStream LED optical waveguide technology produces both symmetric NEMA type V and asymmetric NEMA II, III, IV distributions. The waveguide is manufactured from precision injection molded acrylic resulting in a pixelation free optical image for improved glare control and visual comfort. Luminaire efficacy's measure up to 100 lm/w for 4000K (+/- 275K) CCT at 70 CRI (min), optional 3000K CCT at 80 CRI is also available.

Electrical

LED driver(s) are directly mounted to upper housing thermal pad for optimal thermal performance.

Standard 0-10V dimming drivers and Cooper Lighting Solutions' proprietary surge protection module are designed to withstand 10kV of transient line surge. Drivers operate at 120-277V 50/60Hz with 347V/60Hz or 480V/60Hz operation optional. Suitable for ambient temperature applications as low as -40°C (40°F) to 40°C (104°F). Limited high ambient options allow for 50°C operation.

Controls

The Arbor LED luminaire control options are designed to be simple and cost-effective ASHRAE and California Title 24 compliant solutions. The ANSI C136.41 compliant NEMA 7-PIN receptacle enables wireless dimming when used with compatible photocontrol. See control options page for more details.

Mounting

Fitter assembly mounts over 2-3/8" O.D. tenon and is secured via six concealed stainless steel set screws. Design of fitter provides seamless transition to 3" O.D. round pole top. Additional mounting accessories include a single fixture arm mount, twin

fixture arm mount and wall mount arm. Additional pole mount accessories mount to a 3" x 4" long tenon for 4" - 5" O.D. poles tops. For existing 2-3/8" tenons an adapter is shipped standard.

Finish

Cooper Lighting Solutions ("CLS") utilizes premium ultra-weatherable TGIC based polyester powder coatings that are specifically formulated to withstand extended outdoor exposure. The powders are formulated exclusively for CLS to serve functionally as well as decorative. Good film appearance combined with excellent mechanical and exterior exposure qualities display greater than twice as much gloss retention. RAL and custom color matches available. Finish is compliant with ASTM B117 3000hr salt spray standard. Options to meet Buy American Act requirements.

Warranty

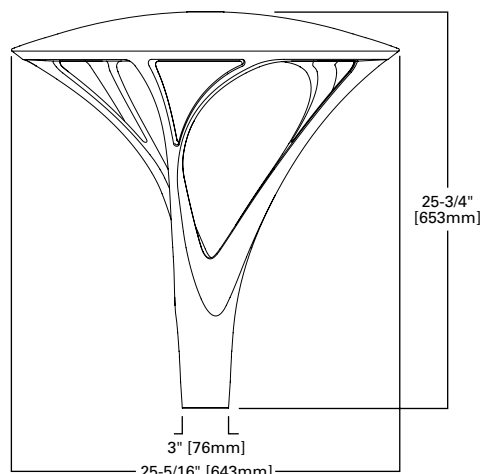
Five-year warranty.



ARB ARBOR POST TOP

DECORATIVE LUMINAIRE

DIMENSIONS



CERTIFICATION DATA

UL/cUL Listed
IEC 60529 IP66 Housing
ASTM B117 SaH Spray Tested
ASTM A3560 Low Cooper Alloy
ISO 9001
Dark Sky Approved (3000K CCT and warmer only)
ANSI C136.31 3G Vibration Tested (Post Top)
ANSI C136.31 1.5G Vibration Tested (Twin Mount / Accessory Arm Mount)

ENERGY DATA

Electronic LED Driver
>0.9 Power Factor
<20% Total Harmonic Distortion
120-277V 50/60Hz, 347V/60Hz, 480V/60Hz
40°C Ambient Temperature Rating
As low as -40°C (-40°F) minimum temperature
*See MINIMUM TEMPERATURE table

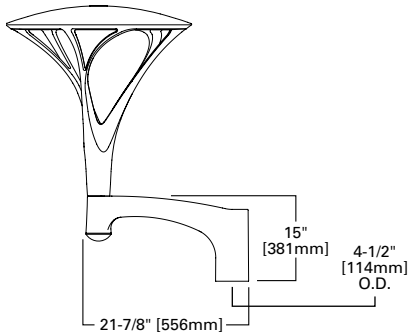
EPA

Effective Projected Area: (Sq. Ft.) 0.9

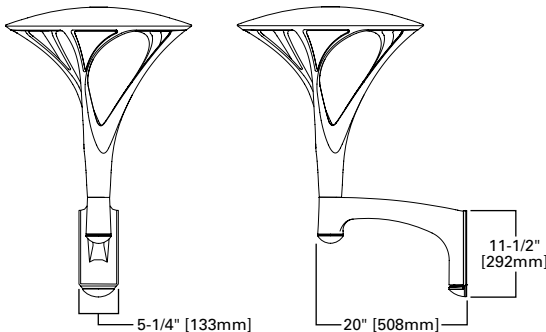
Approximate Net Weight:
37 lbs. [16.8 kgs.]

MOUNTING CONFIGURATIONS (WEIGHT AND EPAS INCLUDES FIXTURE)

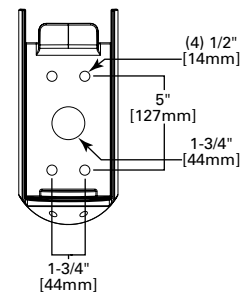
Single Arm Mount (ARSA-XX)
Weight: 56 lbs. [25.45 kgs.]
EPA: 1.7 Sq. Ft.



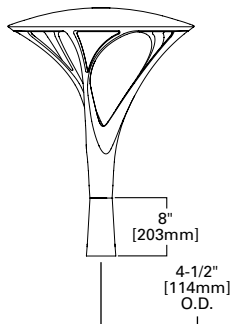
Wall Mount Arm (ARWM-XX)
Weight: 57 lbs. [25.91 kgs.]
EPA: 1.8 Sq. Ft.



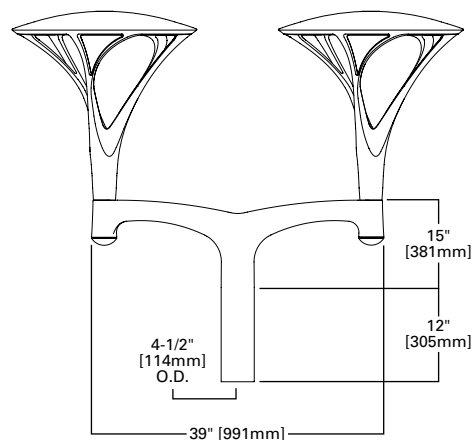
Wall Mount Arm Drill Pattern



Post Top Adapter (ARPA4-XX)
Weight: 41 lbs. [18.63 kgs.]
EPA: 1.2 Sq. Ft.



Twin Arm Mount (ARTA15-XX)
Weight: 114 lbs. [51.81 kgs.]
EPA: 3.45 Sq. Ft.

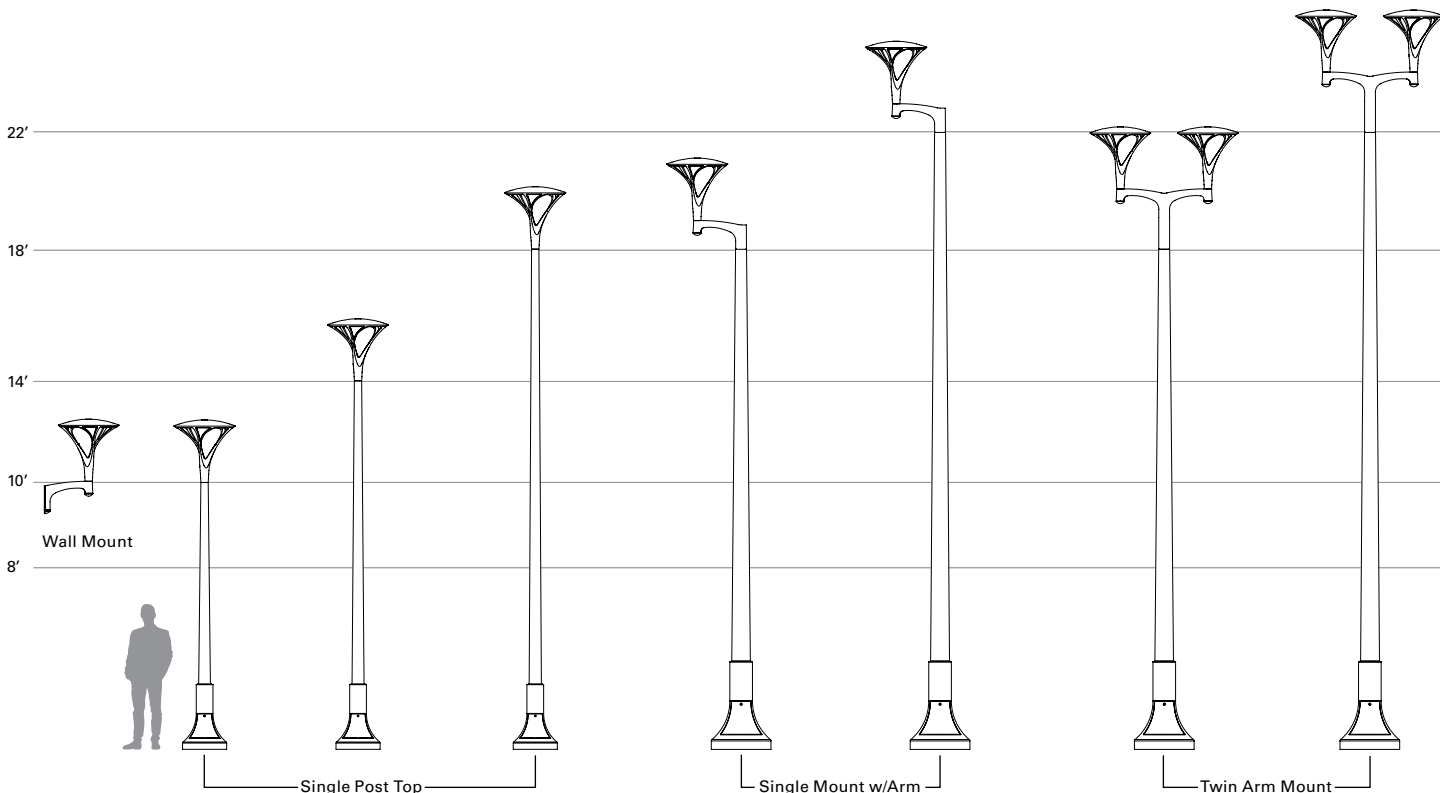


MOUNTING REQUIREMENTS CHART

Tenon O.D. (Inches)	2-3/8" Tenon		
Pole Top O.D. (Inches)	3"	4"	5"
Post Top	Standard	Spacer (Provided) & ARPA4-XX (Order Separately)	Spacer (Provided) & ARPA4-XX (Order Separately)
Single Arm Mount	Spacer (Provided)	Spacer (Provided)	Spacer (Provided)

Tenon O.D. (Inches)	3" Tenon		
Pole Top O.D. (Inches)		4"	5"
Post Top		ARPA4-XX (Order Separately)	ARPA4-XX (Order Separately)
Single Arm Mount		Standard	Standard
Twin Mount		Standard	Standard

POLE CONFIGURATIONS (ARP DECORATIVE POLE SHOWN)



ORDERING INFORMATION

Sample Number: ARB-B2-LED-D1-T2-GM

Product Family ^{1,2}	Lumens ³	Lamp Type	Voltage	Distribution	Color ⁷
ARB=Arbor Post Top BAA-ARB=Arbor Post Top Buy American Act Compliant ²⁵	B1=Nominal 2,300 Lumens B2=Nominal 4,500 Lumens B3=Nominal 8,500 Lumens B4=Nominal 9,500 Lumens ⁴	LED=Solid State Light Emitting Diodes	D1=Dimming Driver (120-277V) 347=347V ⁵ 480=480V ^{5,6}	T2=Type II T3=Type III T4=Type IV T5=Type V	AP=Grey BZ=Bronze BK=Black DP=Dark Platinum GM=Graphite Metallic WH=White
Options (Add as Suffix)			Accessories (Order Separately) ^{19,26}		
7030=70 CRI / 3000K CCT ⁸ 7035=70 CRI / 3500K CCT ⁸ 8030=80 CRI / 3000K CCT ⁸ 8035=80 CRI / 3500K CCT ⁸ AMB=Amber 590nm ^{11,27} 20MSP=20kV MOV Surge Protective Device 20K=20kV UL 1449 Fused Surge Protective Device PC=Button Type Photocontrol PER=NEMA 3-PIN Twistlock Photocontrol Receptacle PER7=NEMA 7-PIN Twistlock Photocontrol Receptacle HA=50°C High Ambient Temperature ⁹ SPB1=Dimming Occupancy Sensor with Bluetooth Interface, <8' Mounting ²³ SPB2=Dimming Occupancy Sensor with Bluetooth Interface, 8'-20' Mounting ²³ SPB4=Dimming Occupancy Sensor with Bluetooth Interface, 21'-40' Mounting ²³ MS-L08=Motion Sensor for ON/OFF Operation, Maximum 8' Mounting Height ^{10,11} MS-L20=Motion Sensor for ON/OFF Operation, 9' - 20' Mounting Height ^{10,11} MS-L40W=Motion Sensor for ON/OFF Operation, 21' - 40' Mounting Height ^{10,11} MS/DIM-L08=Motion Sensor for Dimming Operation, Maximum 8' Mounting Height ^{10,11} MS/DIM-L20=Motion Sensor for Dimming Operation, 9' - 20' Mounting Height ^{10,11} MS/DIM-L40W=Motion Sensor for Dimming Operation, 21' - 40' Mounting Height ^{10,11} ZD=DALI-enabled 4-PIN Twistlock Receptacle ^{10,11,12,13,14} ZW=Wavelinx-enabled 4-PIN Twistlock Receptacle ^{10,11,12,13} SWPD4WH=Wavelinx Wireless Sensor, 7' - 15' Mounting Height, White ^{10,11,12,13,15} SWPD5WH=Wavelinx Wireless Sensor, 15' - 40' Mounting Height, White ^{10,11,12,13,15} LWR-LW=Enlighted Wireless Sensor, Wide Lens for 8' - 16' Mounting Height ^{10,16} LWR-LN=Enlighted Wireless Sensor, Narrow Lens for 16' - 40' Mounting Height ^{10,16} 5LTD=Fifth Light Dali Driver ^{10,17} DIM=0-10V External Dimming Leads ^{10,18} VS=Tempered Glass Vandal Shield CC=Coastal Construction ²⁴ SPBL2=FDP-301-L2 (Wattstopper DALI sensor) SPBL4=FDP-301-L7 (Wattstopper DALI sensor) TH= toolless hardware F=Fuse			ARSA-XX=Single Pole Mount Arm ²⁰ ARWM-XX=Wall Mount Arm ARTA15-XX=Twin Mount Bracket ²¹ ARPA4-XX=Pole Adapter 4" O.D. Pole FSIR-100=Wireless Configuration Tool for Occupancy Sensor ²¹ SWPD4-WH=Wavelinx Wireless Sensor, 7' - 15' Mounting Height, White ^{13,15} SWPD5-WH=Wavelinx Wireless Sensor, 16' - 40' Mounting Height, White ^{13,15} WOLC-7P-10A=Wavelinx Outdoor Control Module (7-PIN) ^{10,22}		

NOTES:

- Customer is responsible for engineering analysis to confirm pole and fixture compatibility for all applications. Refer to our white paper WP513001EN for additional information.
- Fixture slippits over standard 2-3/8" tenon. 3" O.D. tenon when used with a ARPA4-XX 4" O.D. pole adapter.
- Standard 4000K CCT, nominal 70CRI.
- B4 only available with Type V distribution.
- Requires the use of a step down transformer.
- 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).
- Custom and RAL color matching available upon request. Consult your lighting representative for more information.
- Extended lead times apply. Use dedicated IES files when performing layouts.
- Not available with B3 lumen package in Type II, III, or IV distributions.
- Controls system is not available with photocontrol (PC), photocontrol receptacle (PER or PER7), or other controls systems (MS, ZD, ZW, LWR, 5LTD, or DIM).
- Not available with HA option.
- Sensor passive infrared (PIR) may be overly sensitive below -20°C (-4°F).
- For device to be field-configurable, requires WAC Gateway components WAC-POE and WPOE-120 in appropriate quantities. Only compatible with WaveLinX system and software and requires system components to be installed for operation. See website for more WaveLinX application information.
- Not available on B1 or B5 lumen packages.
- Requires 4-PIN twistlock receptacle (ZD or ZW) option.
- Enlighted wireless sensors are factory installed and require network components LWP-EM-1, LWP-GW-1, and LWP-PoE8 in appropriate quantities. See website for application information.
- Not available in B4 lumen package.
- Low voltage control leads brought 18" outside fixture.
- Replace XX with paint color.
- Fits on 3" O.D. x 4" long tenon for nominal 4-1/2" O.D. pole top.
- This tool enables adjustment to Motion Sensor (MS) parameters including high and low modes, sensitivity, time delay, cutoff and more. Consult your lighting representative for more information.
- Requires 7-PIN NEMA twistlock photocontrol receptacle (PER7) option. The WOLC-7 cannot be used in conjunction with other controls systems (MS, ZW, ZD or LWR). Operates on 120-347V input voltages.
- Smart device with mobile application required to change system defaults. See controls section for details.
- Coastal construction finish salt spray tested to over 5,000-hours per ASTM B117, with a scribe rating of 9 per ASTM D1654.
- Only product configurations with this designated prefix are built to be compliant with the Buy American Act of 1933 (BAA). Please refer to [DOMESTIC PREFERENCES](#) website for more information. Components shipped separately may be separately analyzed under domestic preference requirements.
- Accessories sold separately will be separately analyzed under domestic preference requirements. Consult factory for further information.
- Narrow-band 590nm +/- 5nm for wildlife and observatory use. Choose Lumen Package B1. See IES files for photometric performance.

POWER AND LUMENS

Lumen Package		B1	B2	B3	B4
Drive Current					
Power Wattage (Watts)		24W	48W	96W	99W
Input Current (mA) @ 120V		200	400	800	830
Input Current (mA) @ 208V		120	240	470	480
Input Current (mA) @ 240V		100	200	400	420
Input Current (mA) @ 277V		90	180	350	360
Power Wattage (Watts)		26W	53W	107W	108W
Input Current (mA) @ 347V		79	161	325	328
Input Current (mA) @ 480V		58	117	235	237
Optics					
Type II	Lumens	2,045	3,994	7,362	--
	BUG Rating	B1-U1-G1	B1-U2-G2	B3-U2-G3	--
Type III	Lumens	2,324	4,534	8,451	--
	BUG Rating	B1-U1-G1	B1-U2-G2	B2-U2-G3	--
Type IV	Lumens	2,408	4,691	8,740	--
	BUG Rating	B1-U1-G1	B1-U2-G2	B2-U2-G3	--
Type V	Lumens	2,311	4,529	8,511	9,464
	BUG Rating	B2-U1-G1	B3-U2-G2	B3-U2-G3	B3-U2-G3

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

LUMEN MAINTENANCE

Ambient Temperature	TM-21 Lumen Maintenance (60,000 Hours)	Calculated L70 (Hours)
25°C	>91%	>230,000
40°C	>88%	>172,000
50°C	>86%	>142,000

NOTE: Maintenance data applies to the highest drive current and represents the worst case at the highest wattage.

COLOR TEMPERATURE

Color Temperature (CCT)	CRI (Nominal)	Multiplier
4000	70	1.00
3000	80	0.91

MINIMUM AMBIENT TEMPERATURE

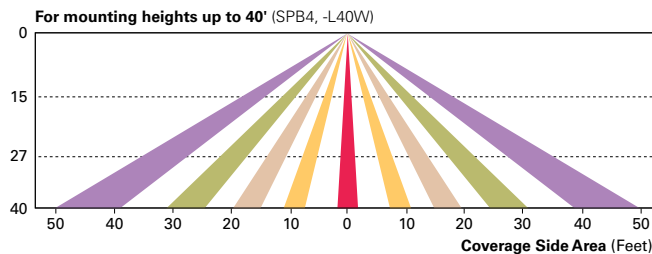
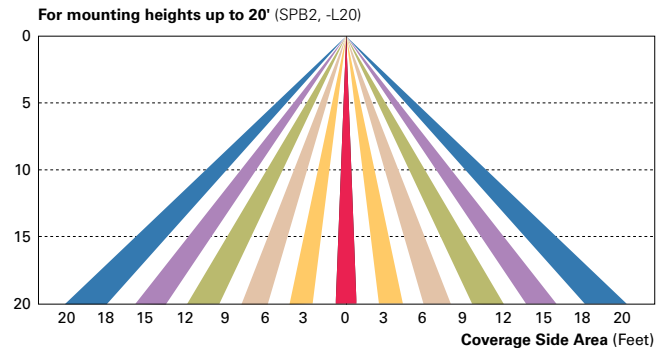
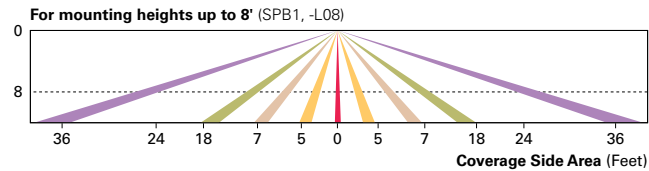
Lumen Package	Temperature
B1	-40°C
B2	-35°C
B3	-35°C
B4	-40°C
All DALI powered lumen packages	-20°C

CONTROL OPTIONS

0-10V (D) The dimming option provides 0-10V dimming wire leads for use with a lighting control panel or other control method.

Photocontrol (PER and PER7) Photocontrol receptacles 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.

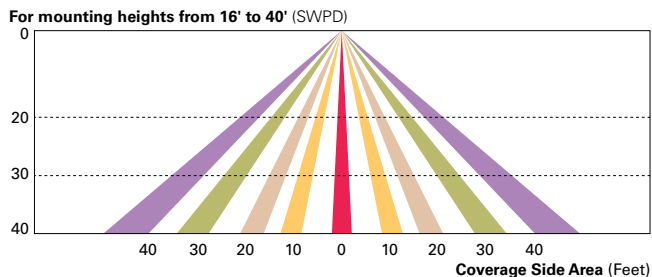
Dimming Occupancy Sensor (SPB, MS/DIM-LXX and MS-LXX) These sensors are factory installed in the luminaire housing. When the SPB or MS/DIM sensor options are selected, the occupancy sensor is connected to a dimming driver and the entire luminaire dims when there is no activity detected. When activity 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. SPB motion sensors require the Sensor Configuration mobile application by Wattstopper to change factory default dimming level, time delay, sensitivity and other parameters. Available for iOS and Android devices. The SPB sensor is factory preset to dim down to approximately 10% power with a time delay of five minutes. The MS/DIM occupancy sensors require the FSIR-100 programming tool to adjust factory defaults.



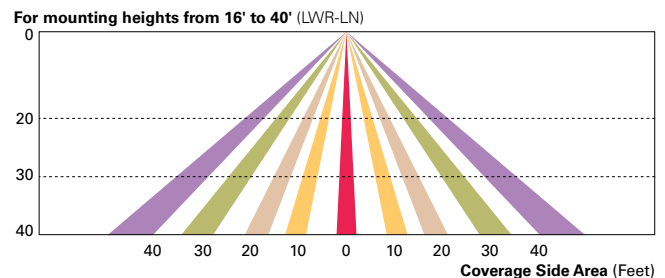
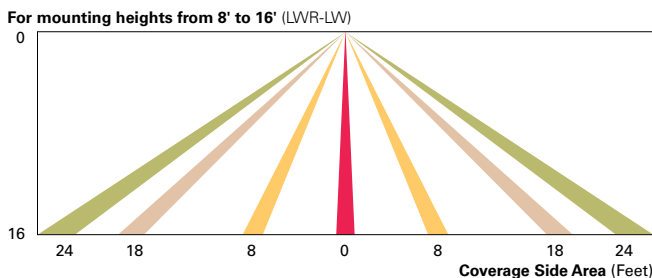
WaveLinx Wireless Control and Monitoring System Available in 7-PIN or 4-PIN configurations, the WaveLinx Outdoor control platform operates on a wireless mesh network based on IEEE 802.15.4 standards enabling wireless control of outdoor lighting. Use the WaveLinx Mobile application for set-up and configuration. At least one Wireless Area Controller (WAC) is required for full functionality and remote communication (including adjustment of any factory pre-sets).

WaveLinx Outdoor Control Module (WOLC-7P-10A) A photocontrol that enables astronomic or time-based schedules to provide ON, OFF and dimming control of fixtures utilizing a 7-PIN receptacle. The out-of-box functionality is ON at dusk and OFF at dawn.

WaveLinx Wireless Sensor (SWPD4 and SWPD5) These outdoor sensors offer passive infrared (PIR) occupancy and a photocell for closed loop daylight sensing. These sensors can be factory installed or field-installed via simple, tool-less integration into luminaires equipped with the Zhaga Book 18 compliant 4-PIN receptacle (ZD or ZW). These sensors are factory preset to dim down to approximately 50 percent power after 15 minutes of no activity detected. These occupancy sensors include an integral photocell for "dusk-to-dawn" control or daylight harvesting that is factory-enabled. A variety of sensor lenses are available to optimize the coverage pattern for mounting heights from 7'-40'.



Enlighted Wireless Control and Monitoring System (LWR-LW and LWR-LN) The Enlighted System is a connected lighting solution that combines LED luminaires with an integrated wireless sensor system. The sensor controls the lighting system in compliance with the latest energy codes and collects valuable data about building performance and use. Software applications turn the granular data into information through energy dashboards and specialized apps that make it simple and help optimize the use of other resources beyond lighting.



DESCRIPTION

The Arbor Bollard from Invue brings architectural style to the pedestrian level. The Arbor Bollard can be used along with Arbor post top luminaires to provide a coordinated look sure to enhance any architectural setting. WaveStream™ LED optics present a pixilation free image replacing visible glare, while providing high levels of pavement illumination.

Catalog #		Type	
Project	HUB FACILITY	OG	
Comments		Date	
Prepared by			

SPECIFICATION FEATURES

Construction

Top Housing: Low copper, cast aluminum top maintains strength and precision while providing for: rapid heat dissipation, vandal resistance and superior dayform. Lower Housing: Heavy 0.188" wall seamless extruded aluminum 4" O.D. shaft attaches to base via stainless steel fasteners. BASE: Rugged corrosion resistant extruded aluminum base mounts to foundation with three anchor bolts. Base features a pliable 1/2" thick neoprene leveling pad fitted to the bottom of base allows for sealing against water and dirt ingress regardless of minor deviations in grade of concrete pad.

Optics

General purpose symmetric distribution is available using WaveStream LED optical technology. The optical waveguide is manufactured using precision injection molded acrylic for the ultimate level of glare control and visual comfort. Offered standard in 4000K (+/- 275K) CCT, optional 3000K minimum 80 CRI.

Electrical

LED driver(s) are mounted to electrical tray for easy installation

and maintenance for 120-277V 50/60Hz, 347V 60Hz or 480V 60Hz operation. Offered standard with 0-10V dimming driver and Cooper Lighting Solutions' proprietary circuit module designed to withstand 10kV of transient line surge. Luminaire is suitable for ambient temperature applications from -30°C (-22°F) to 40°C (104°F) and IP66 rated against the ingress of dust and water.

Controls

The Arbor Bollard options are designed to be simple and cost-effective ASHRAE and California Title 24 compliant solutions. An integrated dimming and occupancy sensor is a standalone control option available in on/off (MSP) and bi-level dimming (MSP/DIM) operation. An optional handheld remote (ISHH) allows custom programming to suit all needs.

Mounting

Luminaire is mounted to 3 x 1/2" anchor bolts on a 2-3/8" bolt circle to with stand a 600 pound overturn moment. Order anchor bolts and installation template separately (ABAnchor).

Finish

Cooper Lighting Solutions utilizes premium ultra-weatherable TGIC

based polyester powder coatings that are specifically formulated to withstand extended outdoor exposure. The powders are formulated exclusively for Cooper Lighting Solutions to serve functionally as well as decorative. Good film appearance combined with excellent mechanical and exterior exposure qualities display greater than twice as much gloss retention. RAL and custom color matches available. Finish is compliant with ASTM B117 3000hr salt spray standard. Options to meet Buy American Act requirements

Warranty

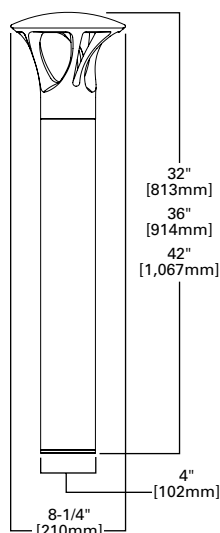
Five-year warranty.



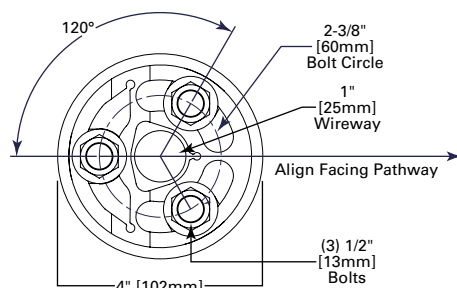
ABB ARBOR BOLLARD

PATHWAY LUMINAIRE

DIMENSIONS



BOLT CIRCLE ORIENTATION



CERTIFICATION DATA



ENERGY DATA

Electronic LED Driver
 >0.9 Power Factor
 <20% Total Harmonic Distortion
 120-277V 50/60Hz
 347V 60Hz, 480V 60Hz
 -30°C Minimum Temperature
 40°C Ambient Temperature Rating

Approximate Net Weight:
 19.25 lbs. [8.75 kgs.]

POWER AND LUMENS

Lumen/Distribution	B1 Symmetric	B2 Symmetric	B1 Asymmetric	B2 Asymmetric
Drive Current				
Power Wattage (Watts)	16W	32W	11W	23W
Input Current (mA) @ 120V	140	270	100	200
Input Current (mA) @ 208V	80	160	60	120
Input Current (mA) @ 240V	70	140	50	100
Input Current (mA) @ 277V	60	120	40	90
Power Wattage (Watts)	19W	37W	13W	27W
Input Current (mA) @ 347V	60	110	40	80
Input Current (mA) @ 480V	180	320	120	240
Optics				
Lumens	717	1,276	472	848
BUG Rating	B1-U0-G1	B1-U0-G2	B1-U0-G1	B1-U0-G2

LUMEN MAINTENANCE

Ambient Temperature	TM-21 Lumen Maintenance (60,000 Hours)	Calculated L70 (Hours)
25°C	>94%	>350,000
40°C	>93%	>250,000
50°C	>90%	>170,000

NOTE: Maintenance data applies to the highest drive current and represents the worst case at the highest wattage.

LUMEN MULTIPLIER

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

COLOR TEMPERATURE

Color Temperature (CCT)	CRI (Nominal)	Multiplier (Hours)
4000	70	1.00
3000	80	0.87

ORDERING INFORMATION

Sample Number: ABB-B2-LED-42-D1-A-GM

Product Family	Lumen Output ¹	CRI / CCT	Source	Nominal Height	Voltage	Distribution	Color
ABB=Arbor Bollard BAA-ABB=Arbor Bollard Buy American Act Compliant ¹⁰	B1=Mid Lumen Output B2=High Lumen Output	727=70 CRI / 2700K 8030=80 CRI / 3000K CCT ⁶	LED	30=32" 36=36" 42=42"	D1=Dimming Driver (120-277V) ² 347=347V ³ 480=480V ^{3,4}	A=Asymmetric S=Symmetric	AP=Grey BZ=Bronze BK=Black DP=Dark Platinum GM=Graphite Metallic WH=White CC=Custom Color ⁵
Options (Add as Suffix)					Accessories (Order Separately) ¹¹		
8030=80 CRI / 3000K CCT ⁶ HA=High Ambient ⁷ MS/DIM-H8=Motion Sensor for Dimming or Bi-Level Operation (Horizontal Detection) ⁸ MS/DIM-2H8=Twin Motion Sensors for 360° Dimming or Bi-Level Operation (Horizontal Detection) ⁸ DIM=0-10V Dimming Driver Leads Brought Out from Fixture					ABAnchor=Anchor Bolt Kit and Template ⁹ ISHH=Wireless Configuration Tool for Integrated Sensor (Occupancy Sensor Settings)		

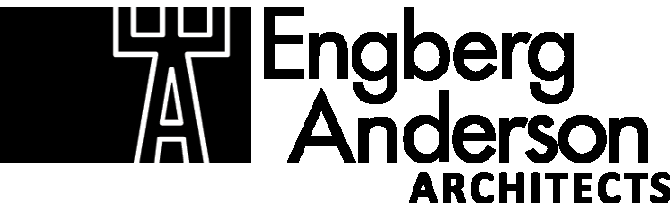
NOTES:

- Standard 4000K CCT nominal 70 CRI.
- Dimming driver standard.
- Requires the use of a step down transformer.
- 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).
- RAL and custom color matching available. Consult your lighting representative at Cooper Lighting Solutions for more information.
- Extended lead times apply. Use dedicated IES files when performing layouts.
- 50°C ambient rating.
- The ISHH configuration tool is required to adjust parameters including high and low dimming levels, sensitivity, time delay, cutoff and more. Consult your lighting representative at Cooper Lighting Solutions for more information.
- Contact your customer service representative at Cooper Lighting Solutions for advance shipping.
- Only product configurations with this designated prefix are built to be compliant with the Buy American Act of 1933 (BAA). Please refer to [DOMESTIC PREFERENCES](#) website for more information. Components shipped separately may be separately analyzed under domestic preference requirements.
- Accessories sold separately will be separately analyzed under domestic preference requirements. Consult factory for further information.

NORTH FISH HATCHERY HUB

PHASE 1 - DESIGN DEVELOPMENT

2220 Traceway Dr., Fitchburg



MILWAUKEE | MADISON | TUCSON | CHICAGO

NORTH FISH HATCHERY HUB

2220 Traceway Dr.
Fitchburg, WI 53713

City of Fitchburg
5520 Lacy Rd.
Fitchburg, Wisconsin 53711-5318

PROJECT NUMBER 203283.00

CIVIL

EMMONS & OLIVER RESOURCES, INC.
1334 DEWEY CT
MADISON, WI 53703
PH 608-839-4422

LANDSCAPE

EMMONS & OLIVER RESOURCES, INC.
1334 DEWEY CT
MADISON, WI 53703
PH 608-839-4422

ARCHITECTURAL

ENGBERG ANDERSON ARCHITECTS
305 W WASHINGTON AVE
MADISON, WI 53703
PH 608-250-0100

STRUCTURAL

ONEIDA TOTAL INTEGRATED ENTERPRISES
5100 EASTPARK BLVD, SUITE 300
MADISON, WI 53718
PH 608-243-6470

PLUMBING

HEIN ENGINEERING GROUP
17 APPLEGATE COURT, SUITE 200
MADISON, WI 53713
PH 608-288-9260

FIRE PROTECTION

HEIN ENGINEERING GROUP
17 APPLEGATE COURT, SUITE 200
MADISON, WI 53713
PH 608-288-9260

MECHANICAL

HEIN ENGINEERING GROUP
17 APPLEGATE COURT, SUITE 200
MADISON, WI 53713
PH 608-288-9260

ELECTRICAL

HEIN ENGINEERING GROUP
17 APPLEGATE COURT, SUITE 200
MADISON, WI 53713
PH 608-288-9260

C100	EXISTIN CONDITIONS	L100	LANDSCAPE PLAN	G000	TITLE SHEET	S001	STRUCTURAL NOTES	P100	FIRST FLOOR PLAN - PLUMBING	H100	FIRST FLOOR PLAN - HVAC	E100	FIRST FLOOR PLAN - ELECTRICAL LIGHTING
C110	DEMOLITION PLAN	L110	LANDSCAPE DETAILS			S002	STRUCTURAL SCHEDULES		UNDERGROUND	H101	FIRST FLOOR PLAN - HVAC RADIANT FLOOR PIPING	E101	FIRST FLOOR PLAN - ELECTRICAL POWER / LV
C120	SITE PLAN W/ SITE PHOTOMETRICS					S100	FOUNDATION PLAN	P101	FIRST FLOOR PLAN - PLUMBING			E102	FIRST FLOOR PLAN - SECURITY
C121	DETAILED SITE PLAN	C121A	ALTERNATE SITE PLAN	A001	CODE CONFORMANCE	S101	LOW ROOF FRAMING PLAN						
C122	DETAILED SITE PLAN			A101	FIRST FLOOR PLAN	S102	HIGH ROOF FRAMING PLAN						
C130	OVER ALL GRADING PLAN			A102	ROOF PLANS	S800	STRUCTURAL DETAILS						
C131	DETAILED GRADING PLAN			A201	REFLECTED CEILING PLANS								
C140	UTILITY PLAN			A301	ENLARGED TOILET PLANS & ELEVATIONS								
C500	EROSION CONTROL DETAILS			A401	EXTERIOR ELEVATIONS								
C501	CIVIL DETAILS			A402	EXTERIOR ELEVATIONS								
C502	CIVIL DETAILS			A403	BUILDING SECTIONS								
C503	STORMWATER DETAILS			A501	WALL SECTIONS								
				A502	WALL SECTIONS								
				A601	DOOR SCHEDULE, DETAILS & WALL TYPES								
				A701	FIRST FLOOR FINISH PLAN, SCHEDULE, & KEY								
				A801	INTERIOR ELEVATIONS								

ISSUED FOR:

DD PRICING 10-28-22

REVISION FOR:

NO.	DESCRIPTION	DATE
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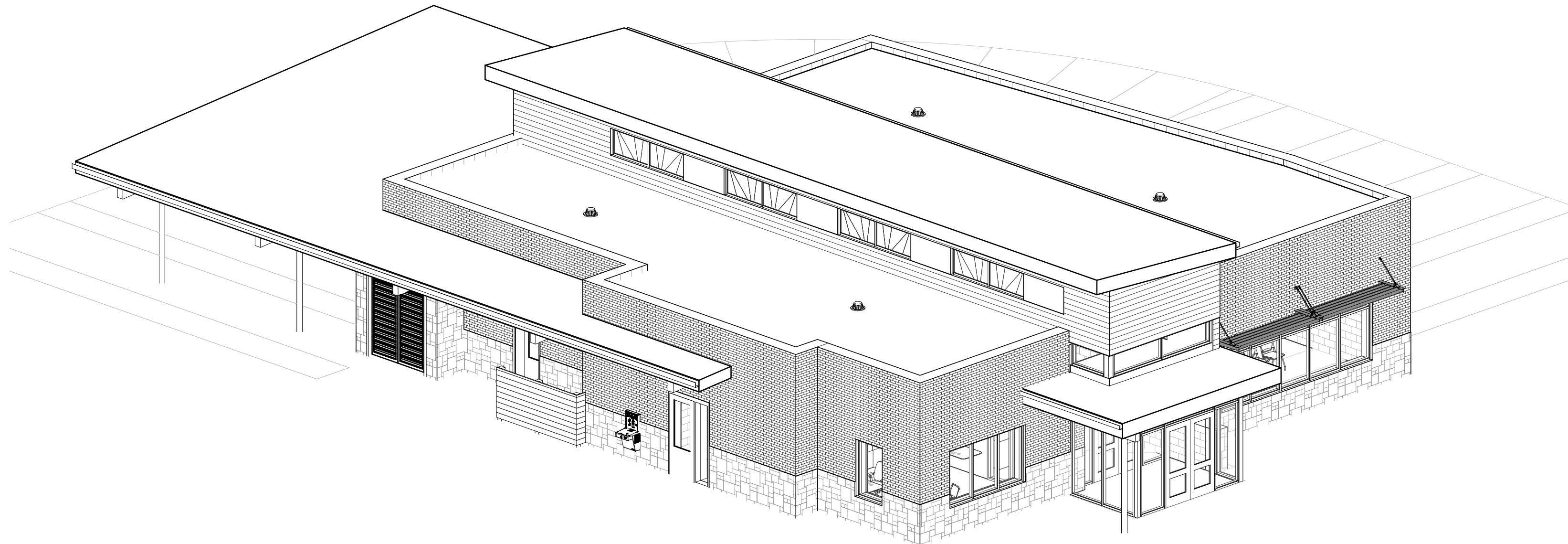
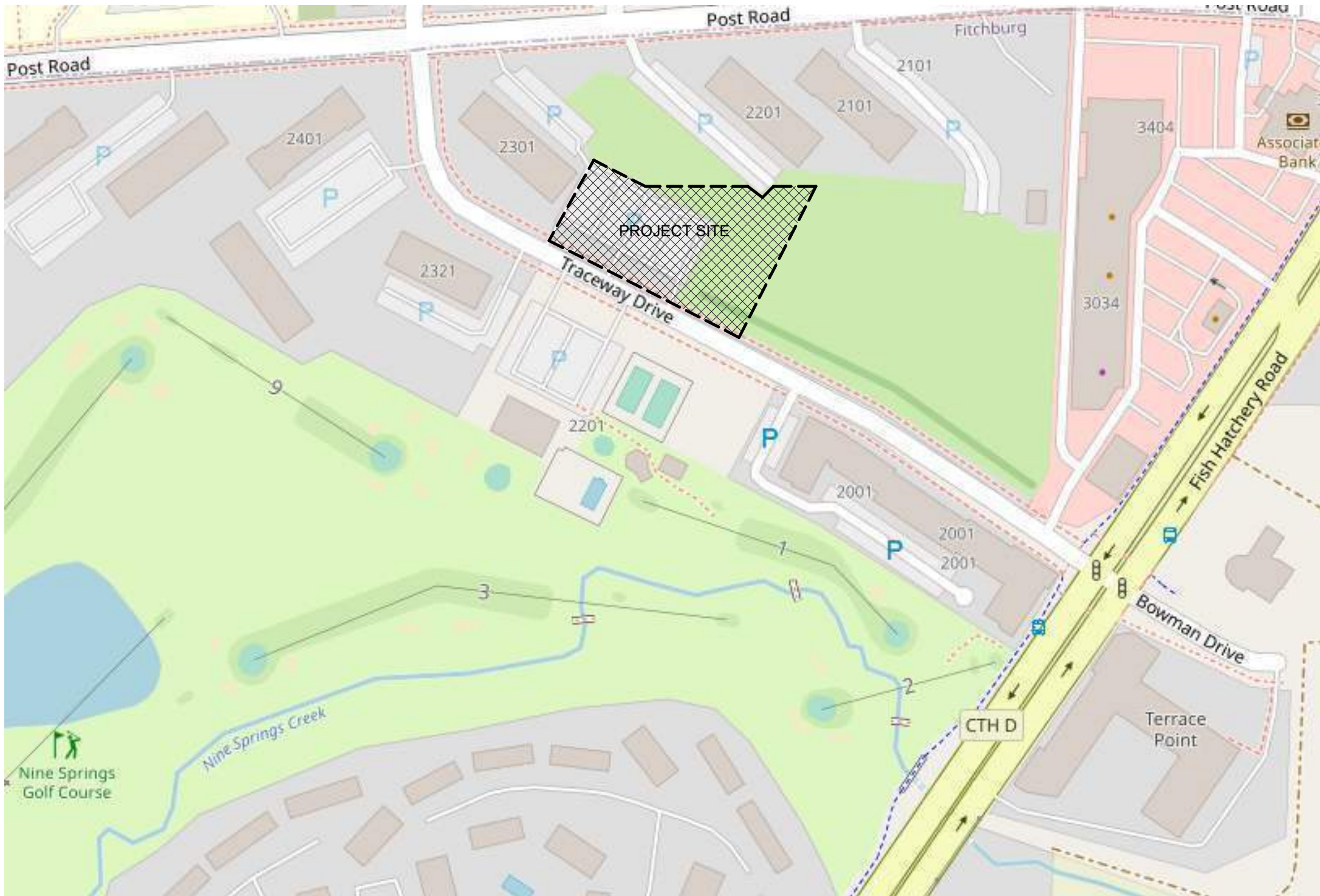
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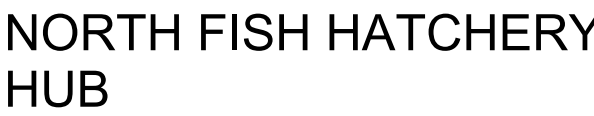
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TITLE SHEET

G000





Traceway Dr., Fitchburg

City of Fitchburg
5520 Lacy Rd.
Fitchburg, Wisconsin 53711-5318

PROJECT NUMBER 203283.00

ISSUED FOR

DD PRICING 10-28-22

REVISION FOR

NO.	DESCRIPTION	DATE
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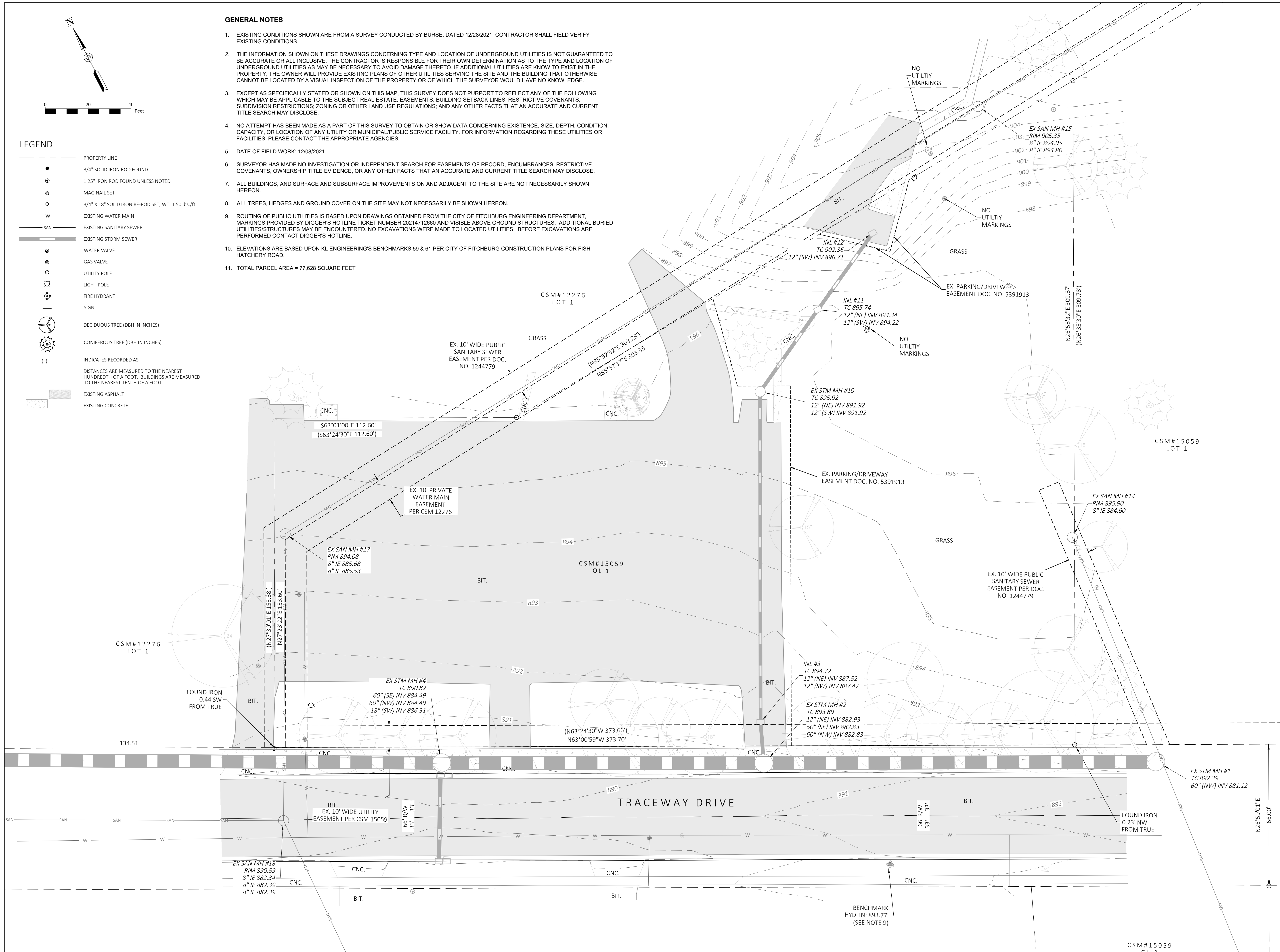
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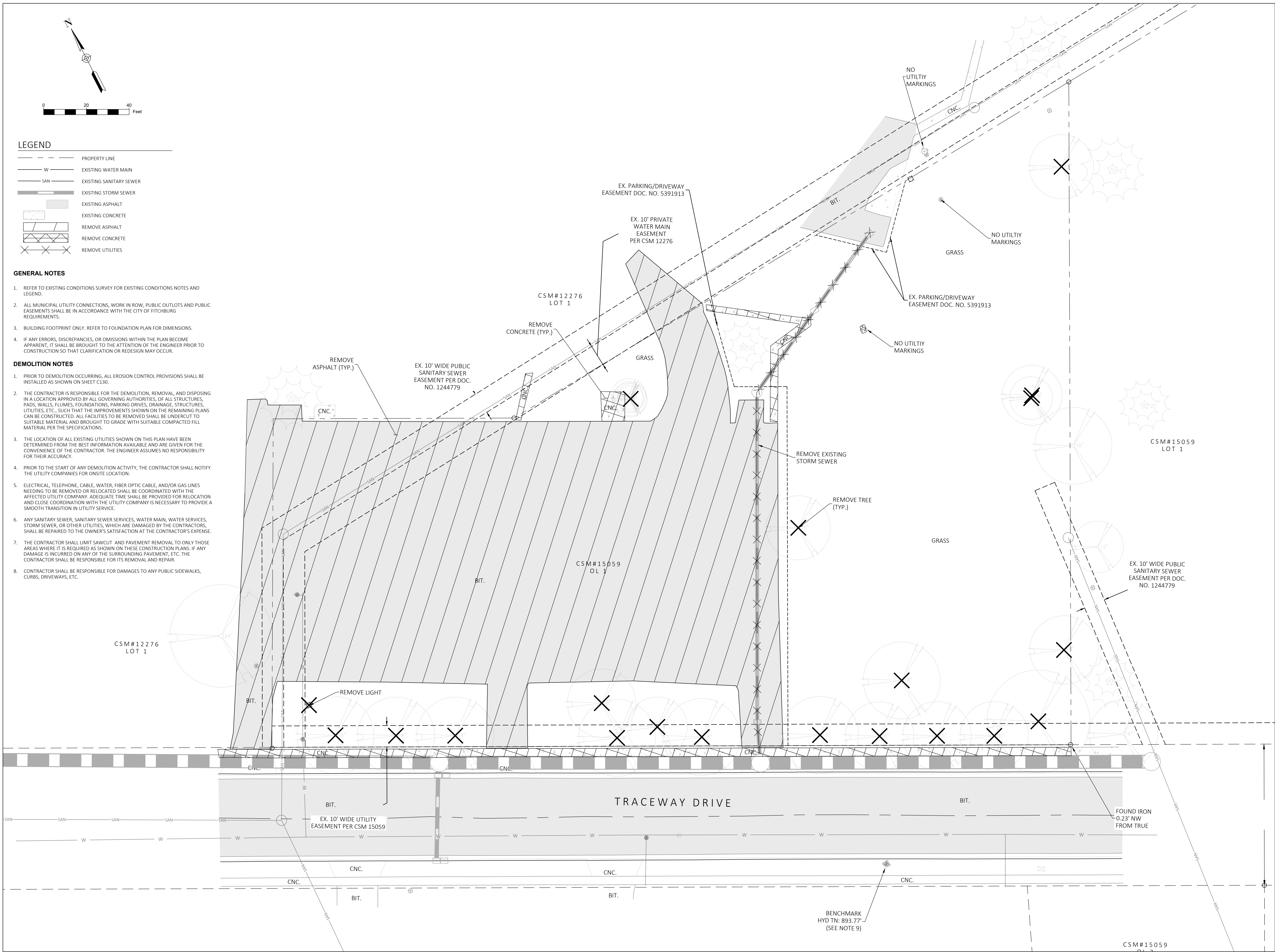
EXISTING CONDITIONS

C100



P:\01052-0014 - FITCHBURG HUB\DRAWINGS\SHEETS PLAN\C110 DEMOLITION PLAN.DWG

28 October 2022



NORTH FISH HATCHERY
HUB

Traceway Dr., Fitchburg

City of Fitchburg
5520 Lacy Rd.
Fitchburg, Wisconsin 53711-5318

PROJECT NUMBER 203283.00

ISSUED FOR:

DD PRICING 10-28-22

REVISION FOR:

NO. DESCRIPTION DATE

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FOR CONSTRUCTION

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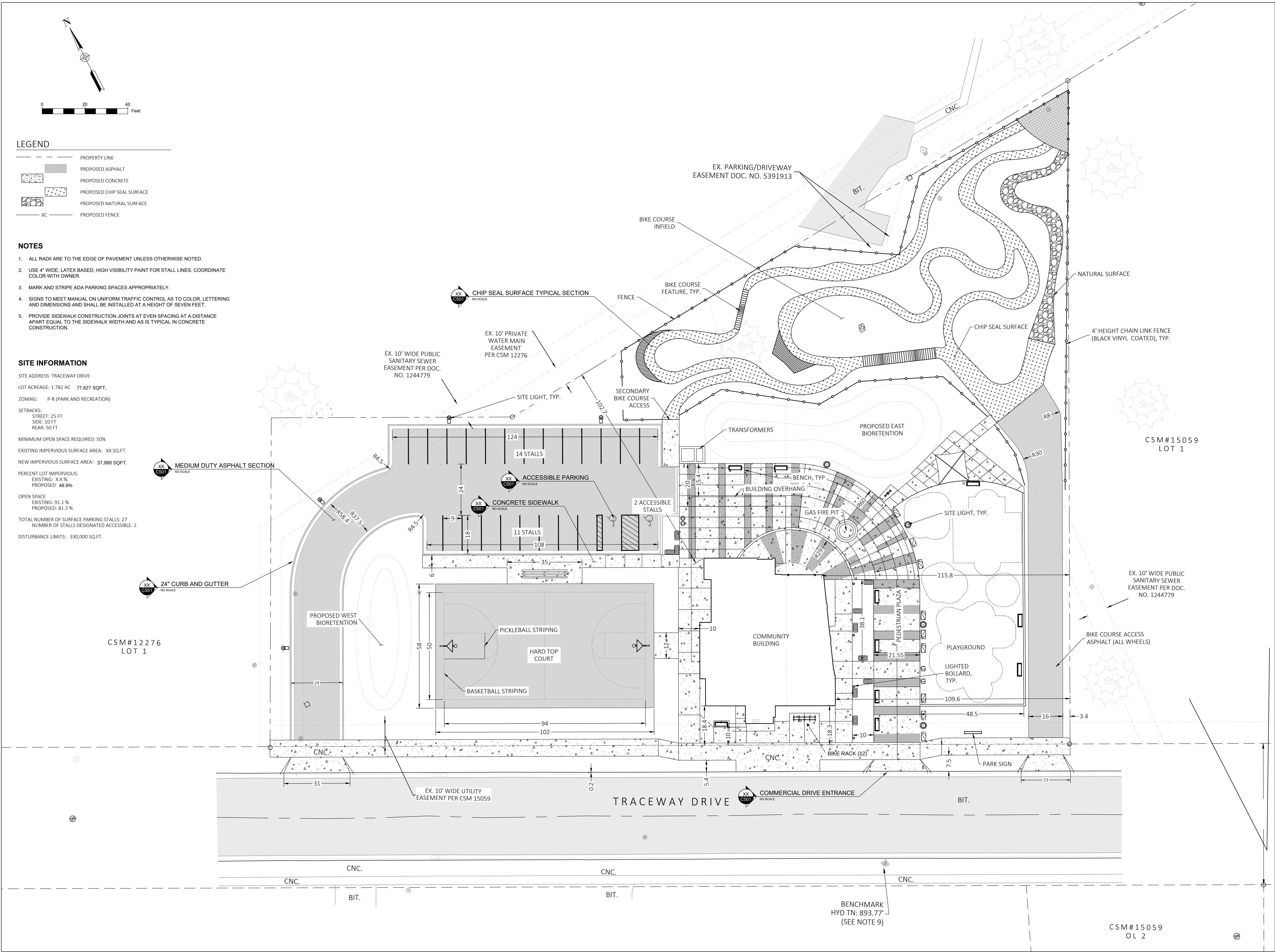
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DEMOLITION PLAN

C110

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28 October 2022



NORTH FISH HATCHERY HUB

Traceway Dr., Fitchburg

City of Fitchburg
5520 Lacy Rd.
Fitchburg, Wisconsin 53711-5318

PROJECT NUMBER 203283.00

ISSUED FOR:

DD PRICING 10-28-22

REVISION FOR:

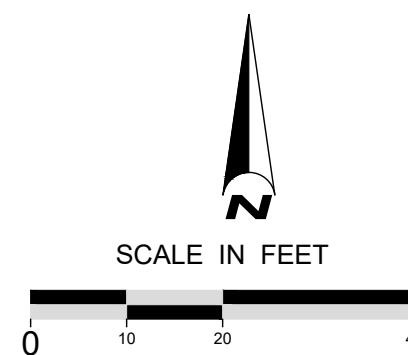
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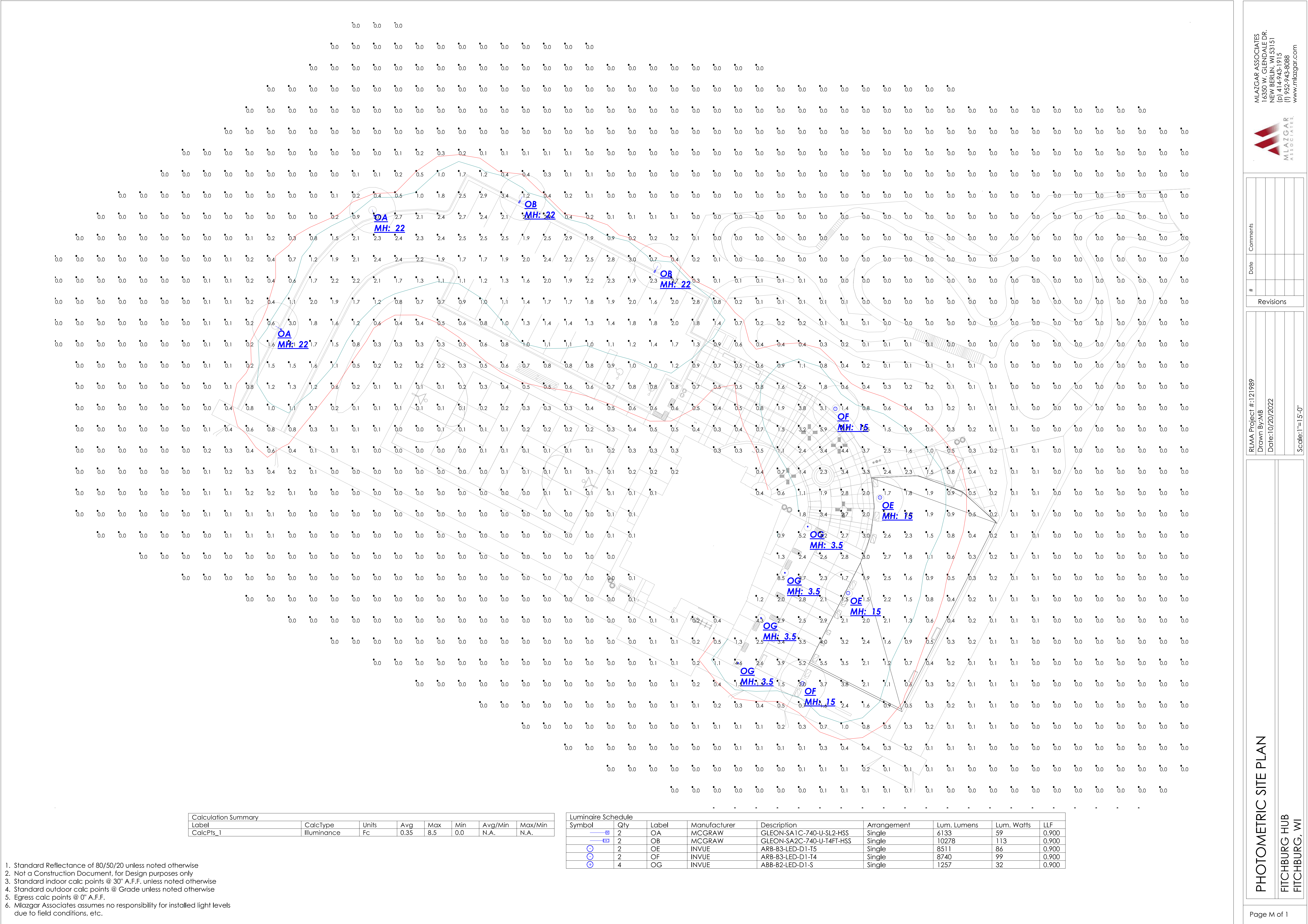
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SITE PLAN



C120



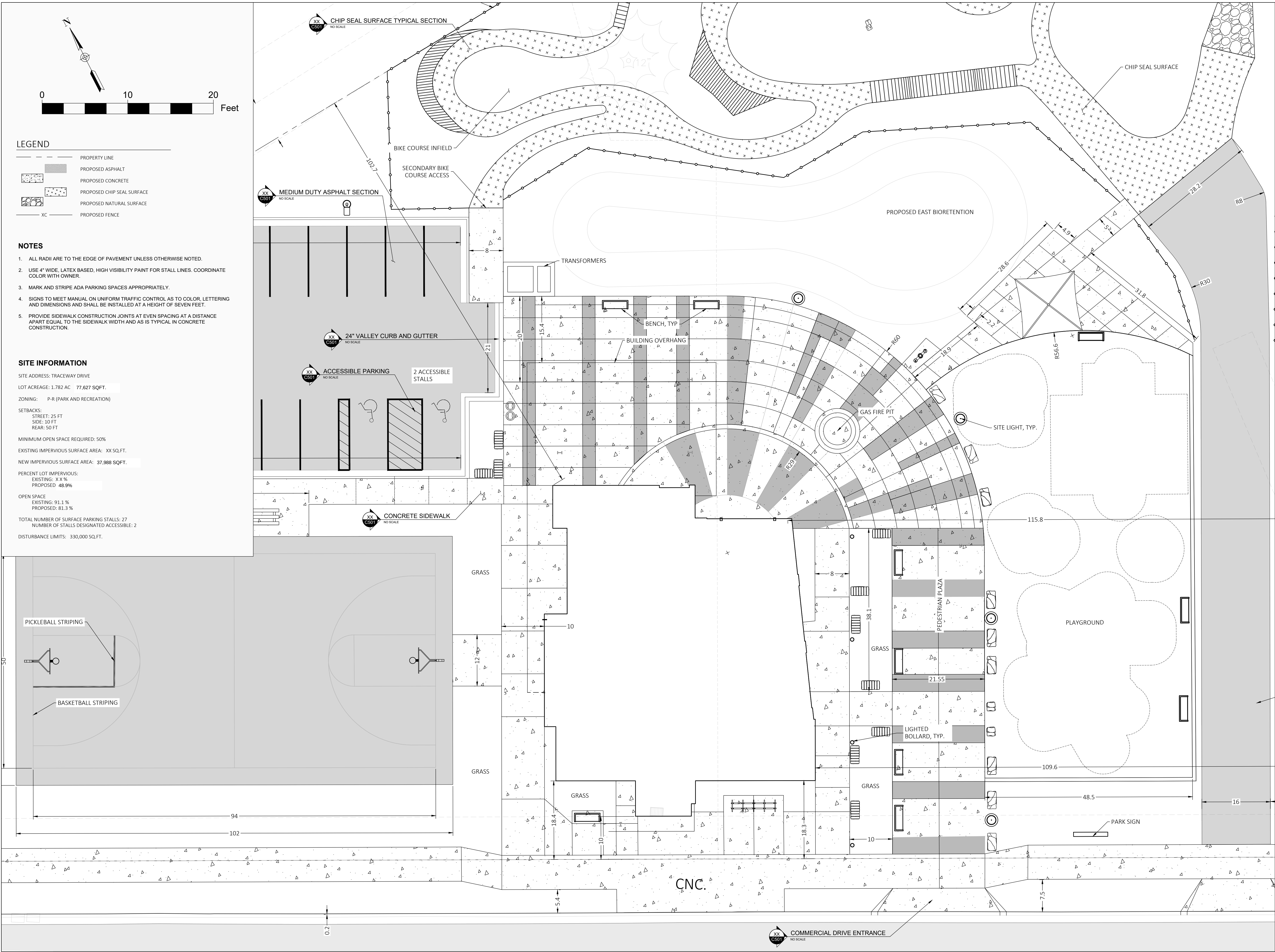
1. Standard Reflectance of 80/50/20 unless noted otherwise
2. Not a Construction Document, for Design purposes only
3. Standard indoor calc points @ 30' A.F.F. unless noted otherwise
4. Standard outdoor calc points @ Grade unless noted otherwise
5. Egress calc points @ 0' A.F.F.
6. Mlazar Associates assumes no responsibility for installed light levels due to field conditions, etc.

Calculation Summary							
Label	CalcType	Units	Avg	Max	Min	Avg/Min	Max/Min
CalcPts_1	Illuminance	Fc	0.35	8.5	0.0	N.A.	N.A.

Luminaire Schedule								
Symbol	Qty	Label	Manufacturer	Description	Arrangement	Lum. Lumens	Lum. Watts	LLF
—■	2	OA	MCGRAW	GLEON-SA1C-740-U-SL2-HSS	Single	6133	59	0.900
—■	2	OB	MCGRAW	GLEON-SA2C-740-U-T4FT-HSS	Single	10278	113	0.900
○	2	OE	INVUE	ARB-B3-LED-D1-T5	Single	8511	86	0.900
○	2	OF	INVUE	ARB-B3-LED-D1-T4	Single	8740	99	0.900
○	4	OG	INVUE	ABB-B2-LED-D1-S	Single	1257	32	0.900

#	Date	Comments

Revisions			



NORTH FISH HATCHERY HUB

Traceway Dr., Fitchburg

City of Fitchburg
5520 Lacy Rd.
Fitchburg, Wisconsin 53711-5318

PROJECT NUMBER 203283.00

ISSUED FOR:

DD PRICING 10-28-22

REVISION FOR:

NO.	DESCRIPTION	DATE
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FOR CONSTRUCTION

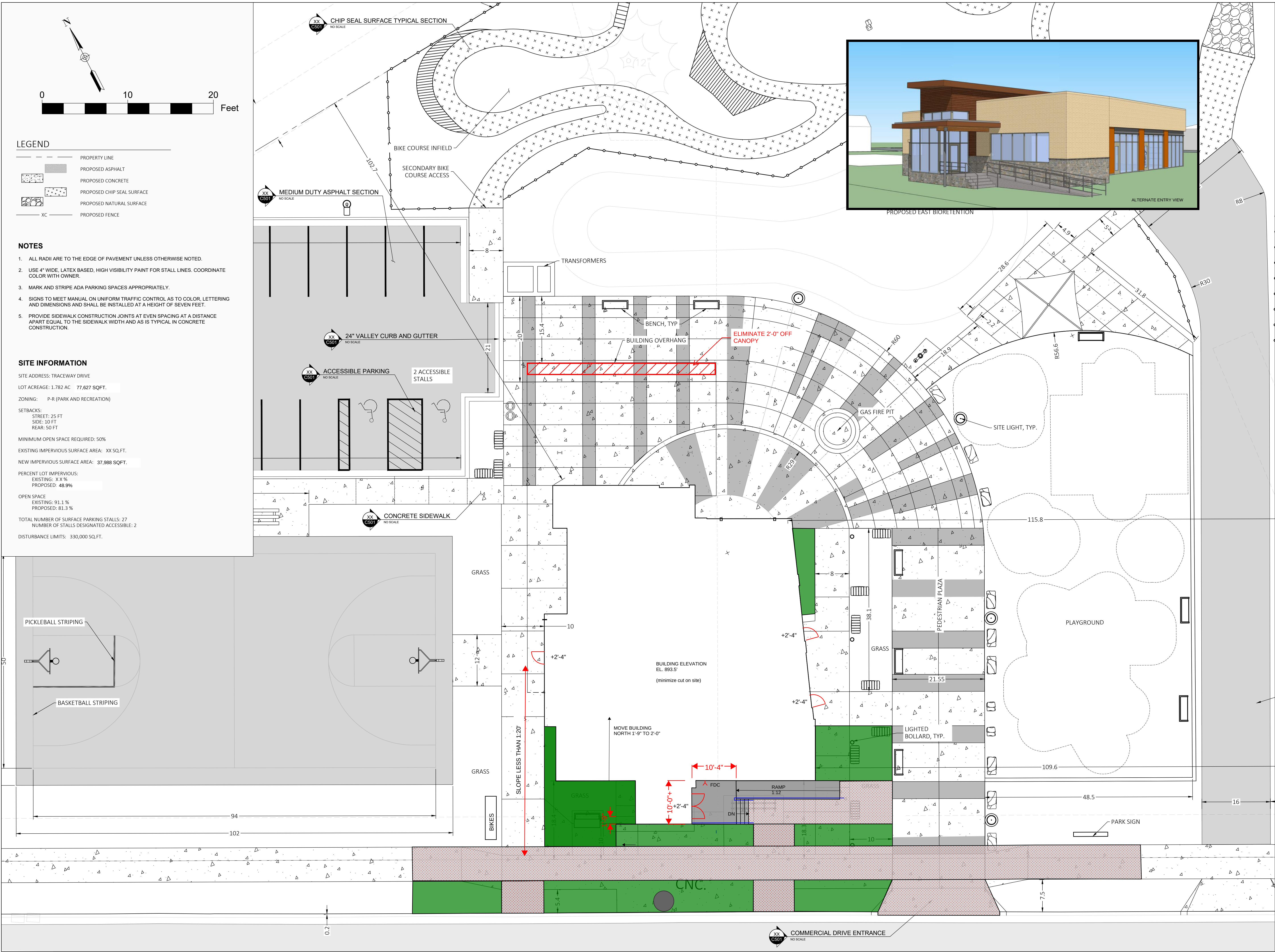
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DETAILED SITE PLAN

SCALE IN FEET
0 10 20 40

C121



NORTH FISH HATCHERY HUB

Traceway Dr., Fitchburg

City of Fitchburg
5520 Lacy Rd.
Fitchburg, Wisconsin 53711-5318

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DETAILED SITE PLAN

ALTERNATE PLAN -
RAISE THE BUILDING

SCALE IN FEET
0 10 20 40

C121A



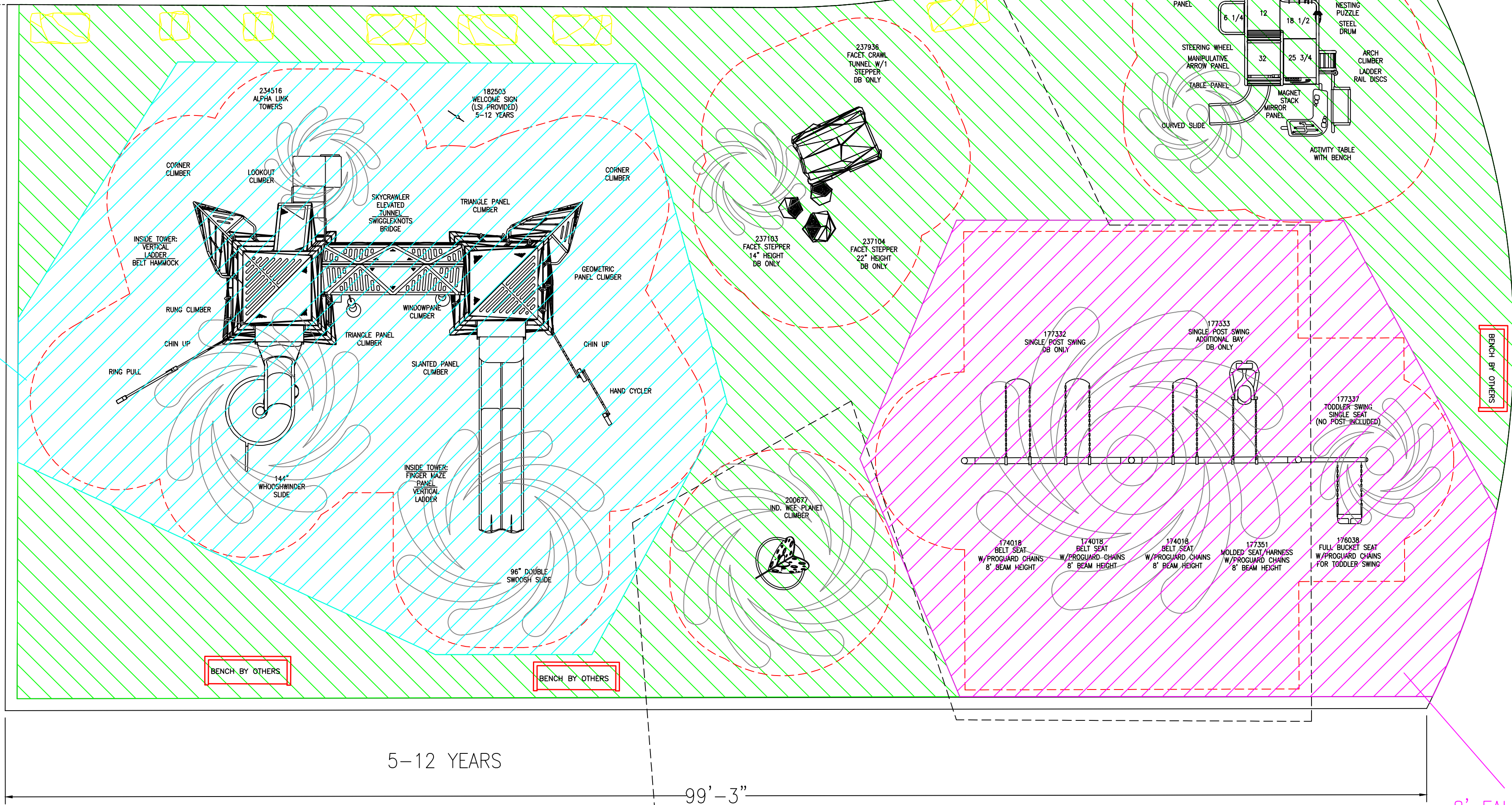
Playground Axon
10-6-22

Healthy Neighborhoods Initiative
Fitchburg WI • 10.03.2022

12' FALL HEIGHT
1,593 SQ FT

SURFACING:
TOTAL PIP = 5,178 SQ FT
12' = 1,593 SQ FT
8' = 1,231 SQ FT
4' = 2,354 SQ FT
CONCRETE BORDER = 148 LN FT

49'-4"



Freestanding Play
(5-12 years)

5-12 YEARS

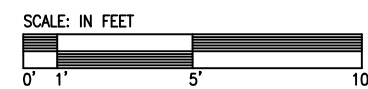
Smart Play®
(2-5 years)

2-5 YEARS

TOTAL ELEVATED PLAY COMPONENTS	16		
TOTAL ELEVATED COMPONENTS ACCESSIBLE BY RAMP	0	REQUIRED	0
TOTAL ELEVATED COMPONENTS ACCESSIBLE BY TRANSFER	8	REQUIRED	8
TOTAL ACCESSIBLE GROUND LEVEL COMPONENTS SHOWN	10	REQUIRED	5
TOTAL DIFFERENT TYPES OF GROUND LEVEL COMPONENTS	7	REQUIRED	7

TOTAL ELEVATED PLAY COMPONENTS	9		
TOTAL ELEVATED COMPONENTS ACCESSIBLE BY RAMP	0	REQUIRED	0
TOTAL ELEVATED COMPONENTS ACCESSIBLE BY TRANSFER	9	REQUIRED	5
TOTAL ACCESSIBLE GROUND LEVEL COMPONENTS SHOWN	6	REQUIRED	3
TOTAL DIFFERENT TYPES OF GROUND LEVEL COMPONENTS	6	REQUIRED	6

PLAYGROUND LAYOUT PLAN

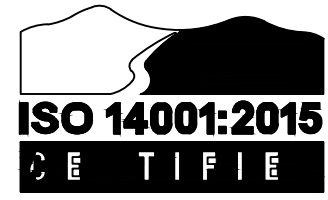


Healthy Neighborhoods
Initiative
Fitchburg, WI

Gerber Leisure
Products, Inc.
Kyla Reamon

SYSTEM TYPE:
Multi-System

DRAWING #:
22100301-01



landscape
structures



The play components identified on this plan are IPEMA certified. (Unless model number is preceded with *) The use and layout of these components conform to the requirements of ASTM F1487. To verify product certification, visit www.ipema.org

THIS PLAY AREA & PLAY EQUIPMENT IS DESIGNED FOR AGES 2-12 YEARS UNLESS OTHERWISE NOTED ON PLAN.

IT IS THE MANUFACTURERS OPINION THAT THIS PLAY AREA DOES CONFORM TO THE A.D.A. ACCESSIBILITY STANDARDS, ASSUMING AN ACCESSIBLE PROTECTIVE SURFACING IS PROVIDED, AS INDICATED, OR WITHIN THE ENTIRE USE ZONE.

THIS CONCEPTUAL PLAN WAS BASED ON INFORMATION AVAILABLE TO US. PRIOR TO CONSTRUCTION, DETAILED SITE INFORMATION INCLUDING SITE DIMENSIONS, TOPOGRAPHY, EXISTING UTILITIES, SOIL CONDITIONS, AND DRAINAGE SOLUTIONS SHOULD BE OBTAINED, EVALUATED, & UTILIZED IN THE FINAL DESIGN. PLEASE VERIFY ALL DIMENSIONS OF PLAY AREA, SIZE, ORIENTATION, AND LOCATION OF ALL EXISTING UTILITIES, EQUIPMENT, AND SITE FURNISHINGS PRIOR TO ORDERING. SLIDES SHOULD NOT FACE THE HOT AFTERNOON SUN.

CHOOSE A PROTECTIVE SURFACING MATERIAL THAT HAS A CRITICAL HEIGHT VALUE TO MEET THE MAXIMUM FALL HEIGHT FOR THE EQUIPMENT (REF. ASTM F1487 STANDARD CONSUMER SAFETY PERFORMANCE SPECIFICATION FOR PLAYGROUND EQUIPMENT FOR PUBLIC USE, SECTION 8 CURRENT REVISION). THE SUBSURFACE MUST BE WELL DRAINED. IF THE SOIL DOES NOT DRAIN NATURALLY IT MUST BE TILED OR SLOPED 1/8" TO 1/4" PER FOOT TO A STORM SEWER OR A "FRENCH DRAIN".

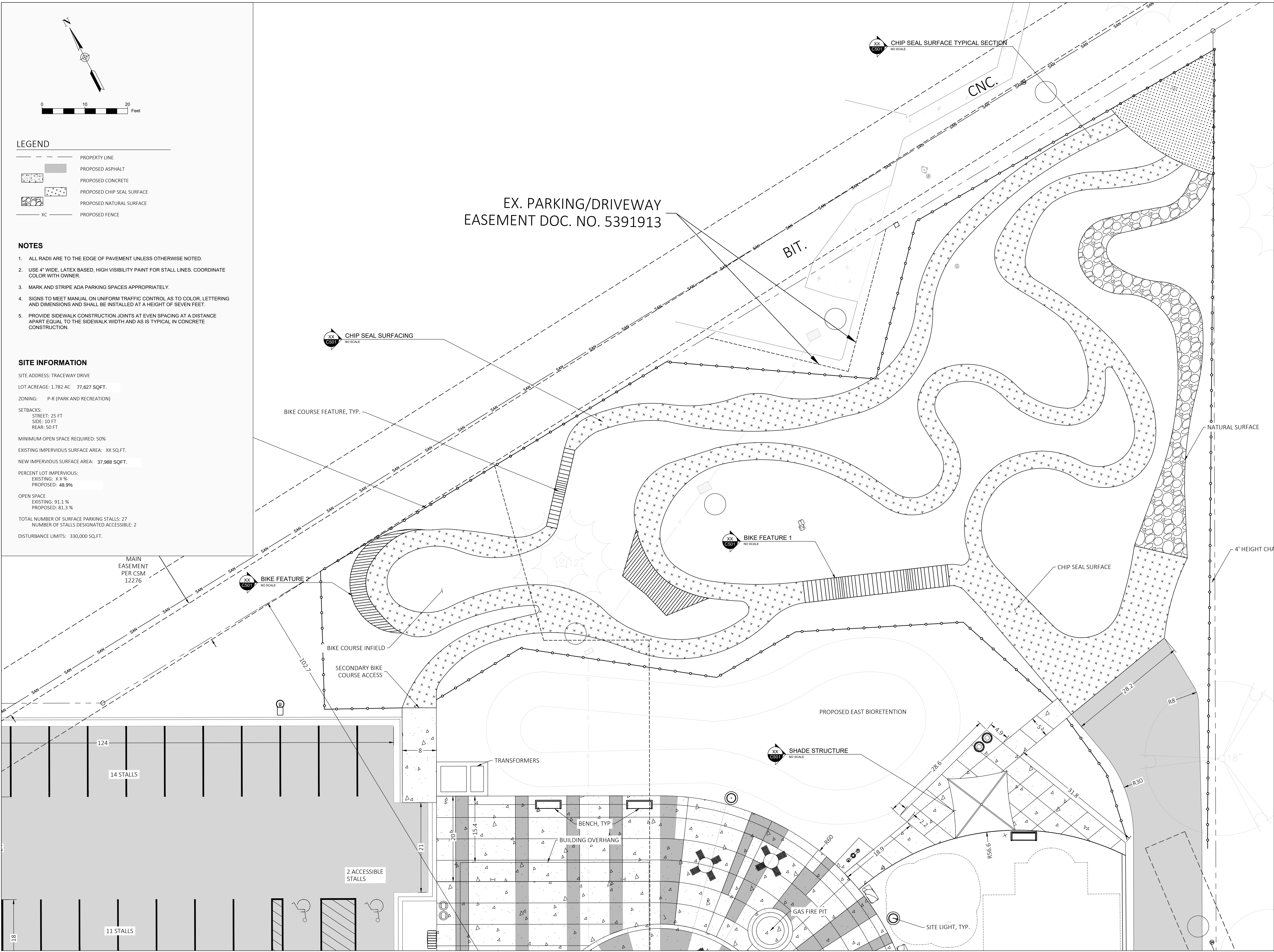
AREA OF
ACCESSIBLE/PROTECTIVE
SURFACING
(POURED-IN-PLACE SUGGESTED)
5,178 SQ FT

IT IS THE MANUFACTURER'S OPINION AND INTENT THAT THE LAYOUT OF THESE COMPONENTS CONFORM WITH THE U.S. CONSUMER PRODUCT SAFETY COMMISSION'S (CPSC) "HANDBOOK FOR PUBLIC PLAYGROUND SAFETY".

DESIGNED BY:
KLP

COPYRIGHT: 10/2/22
LANDSCAPE STRUCTURES, INC.
601 7TH STREET SOUTH - P.O. BOX 198
DELANO, MINNESOTA 55328
PH: 1-800-328-0035 FAX: 1-763-972-6091

Date	Previous Drawing #	Initials
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NORTH FISH HATCHERY
HUB

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Fitchburg, Wisconsin 53711-5318

PROJECT NUMBER 203283.00

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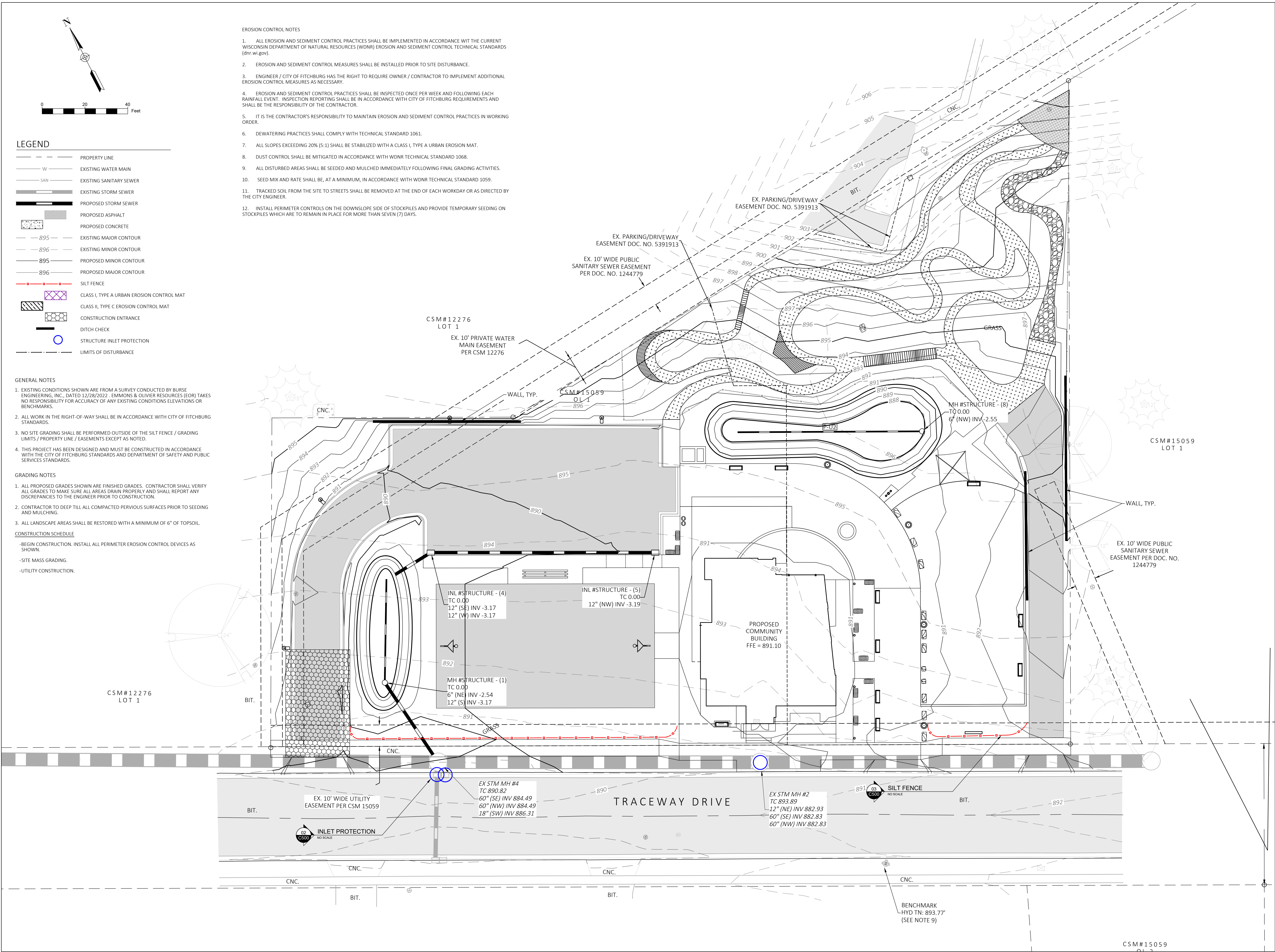
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CHECKED BY RS

DETAILED
SITE PLAN

SCALE IN FEET
0 5 10 20

C122



NORTH FISH HATCHERY
HUB

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Fitchburg, Wisconsin 53711-5318

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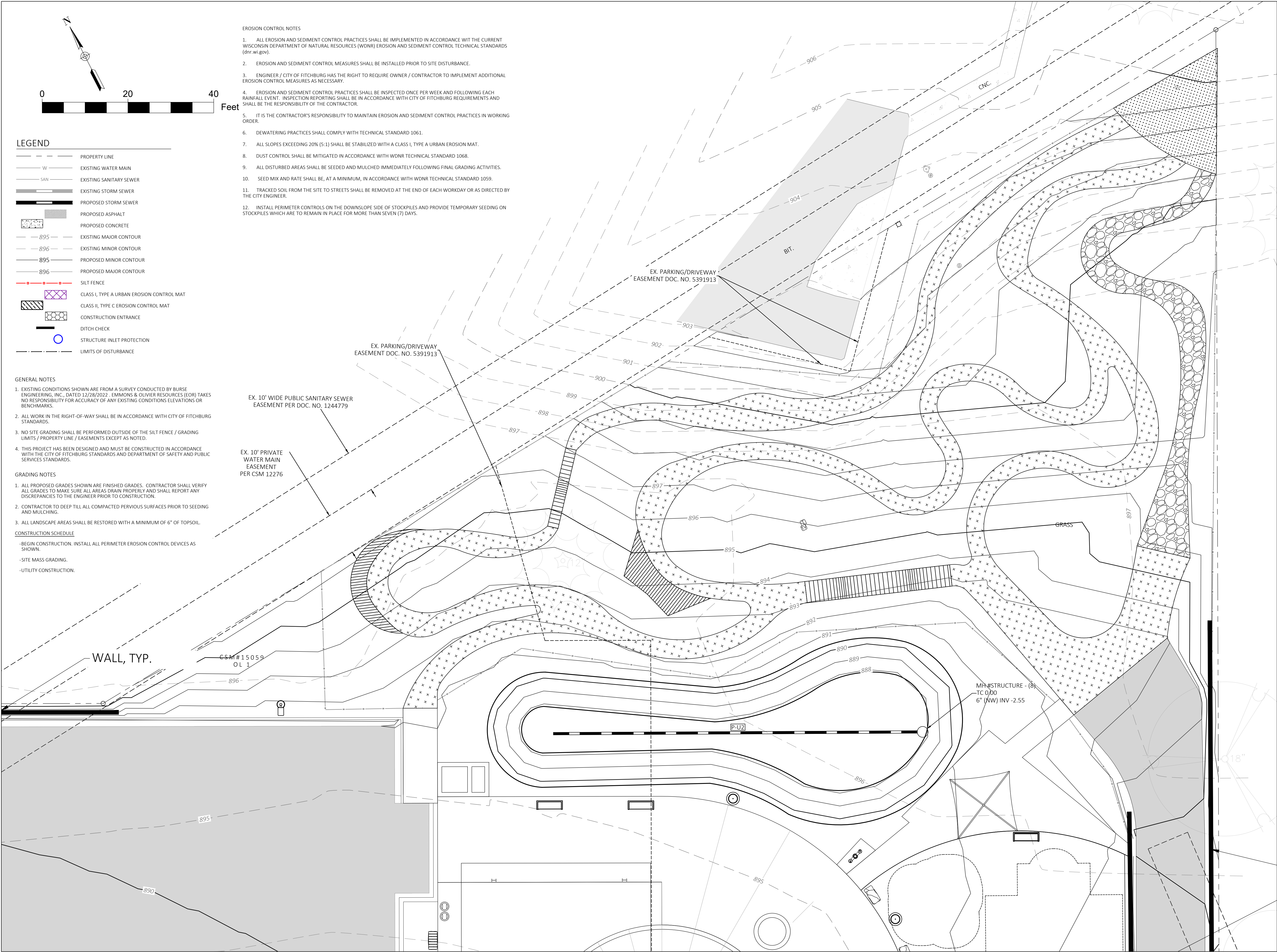
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OVERALL
GRADING PLAN

C130



NORTH FISH HATCHERY
HUB

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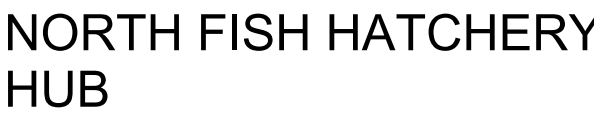
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CHECKED BY RS

DETAILED
GRADING PLAN

C131



Traceway Dr., Fitchburg

City of Fitchburg
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Fitchburg, Wisconsin 53711-5318

PROJECT NUMBER 203283.00

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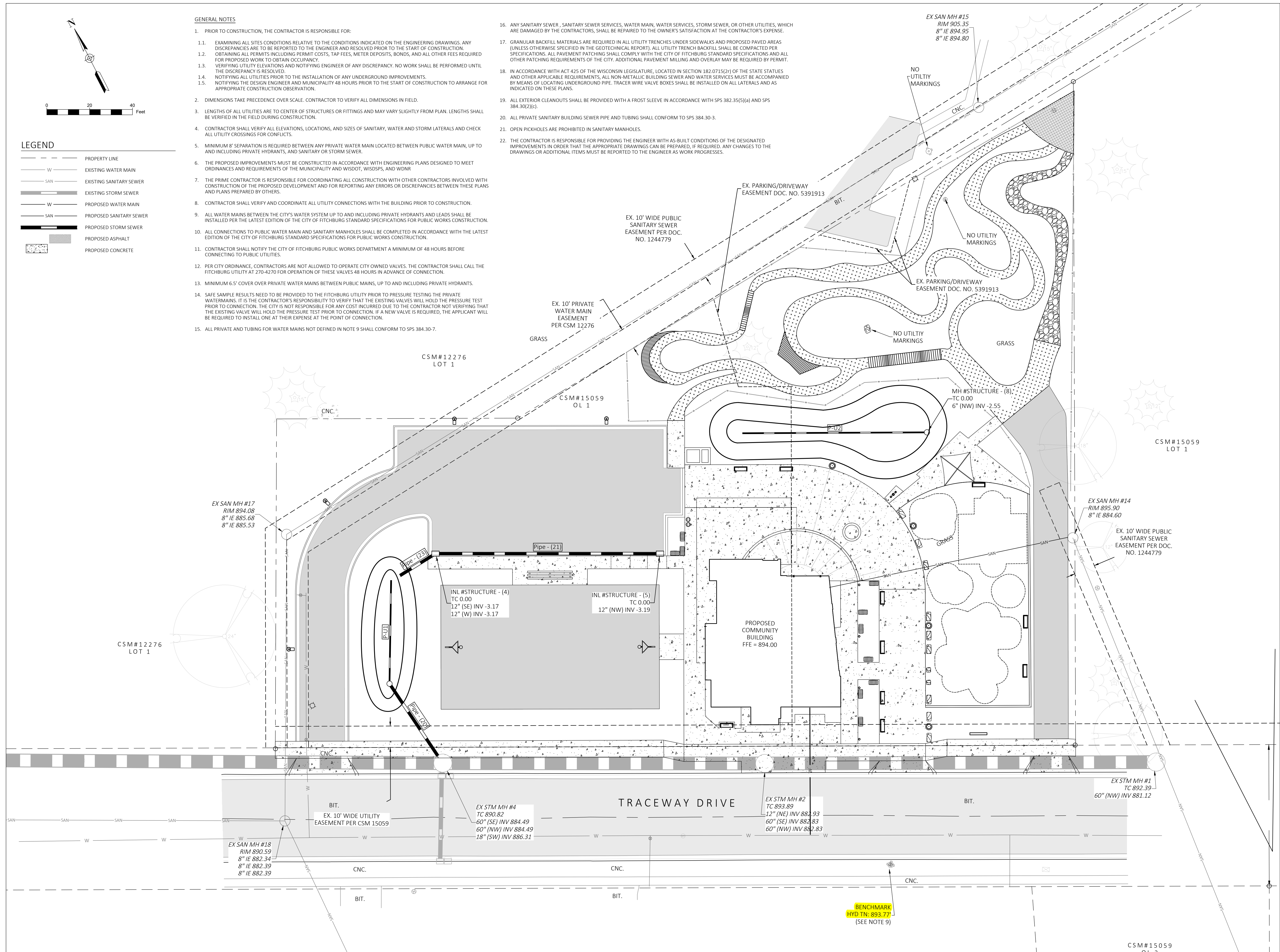
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CHECKED BY _____ RS _____

UTILITY PLAN

C140



NORTH FISH HATCHERY
HUB

Traceway Dr., Fitchburg

City of Fitchburg
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Fitchburg, Wisconsin 53711-5318

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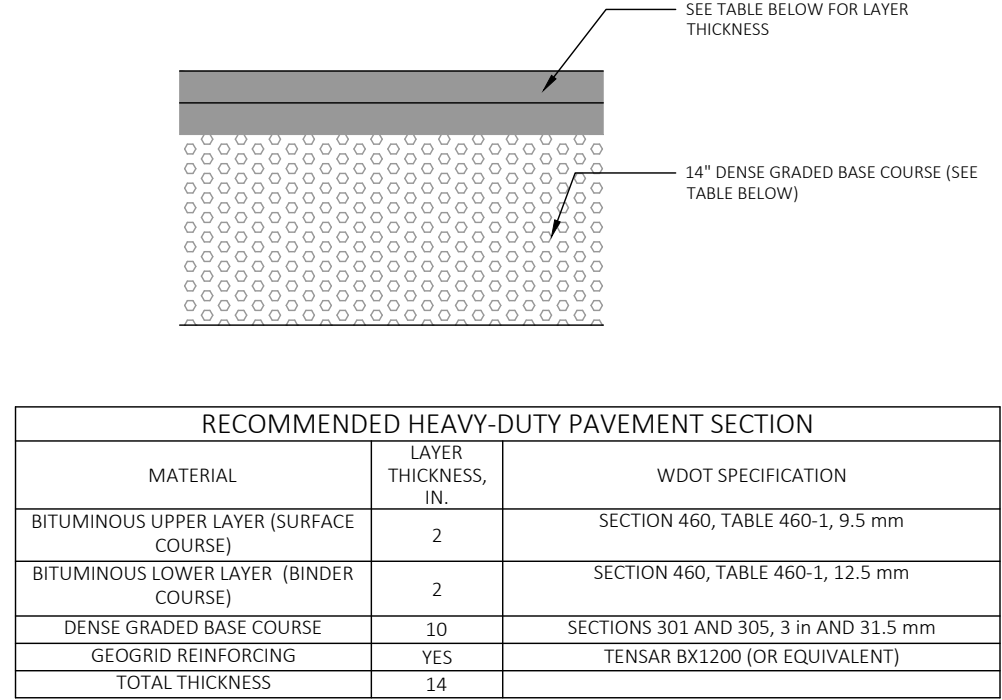
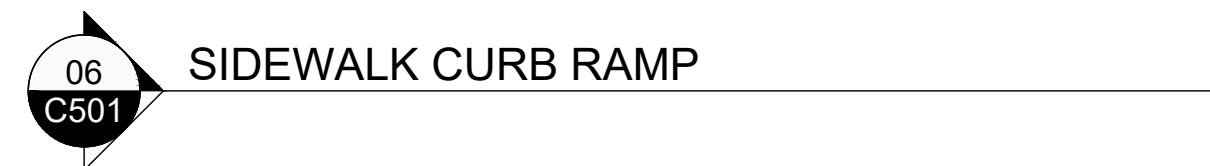
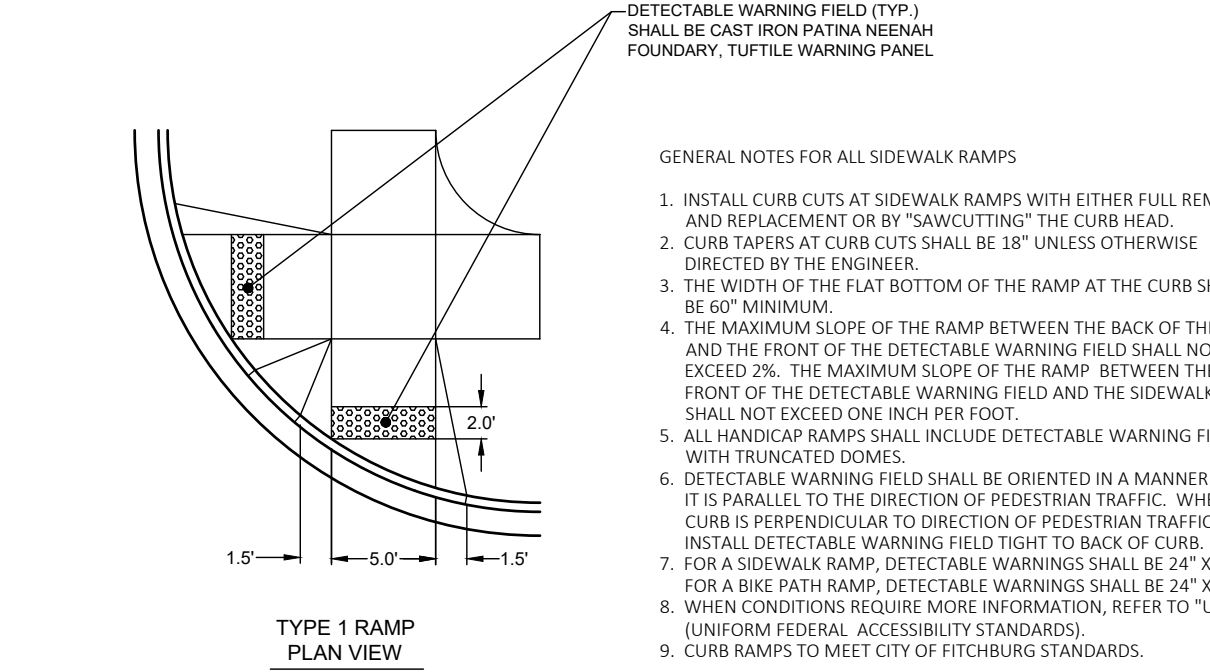
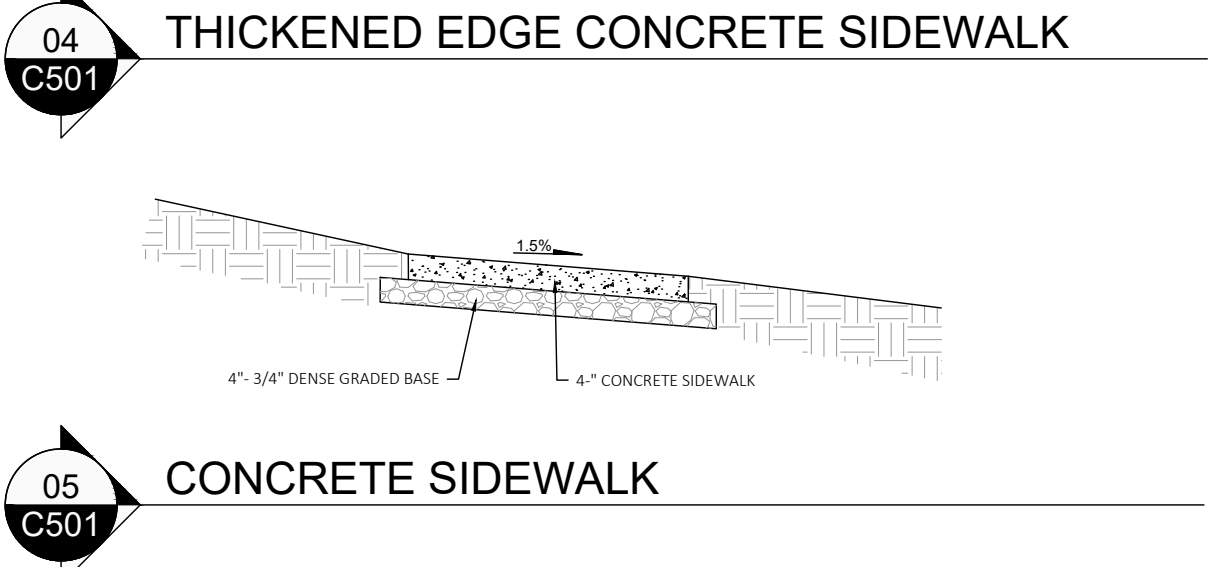
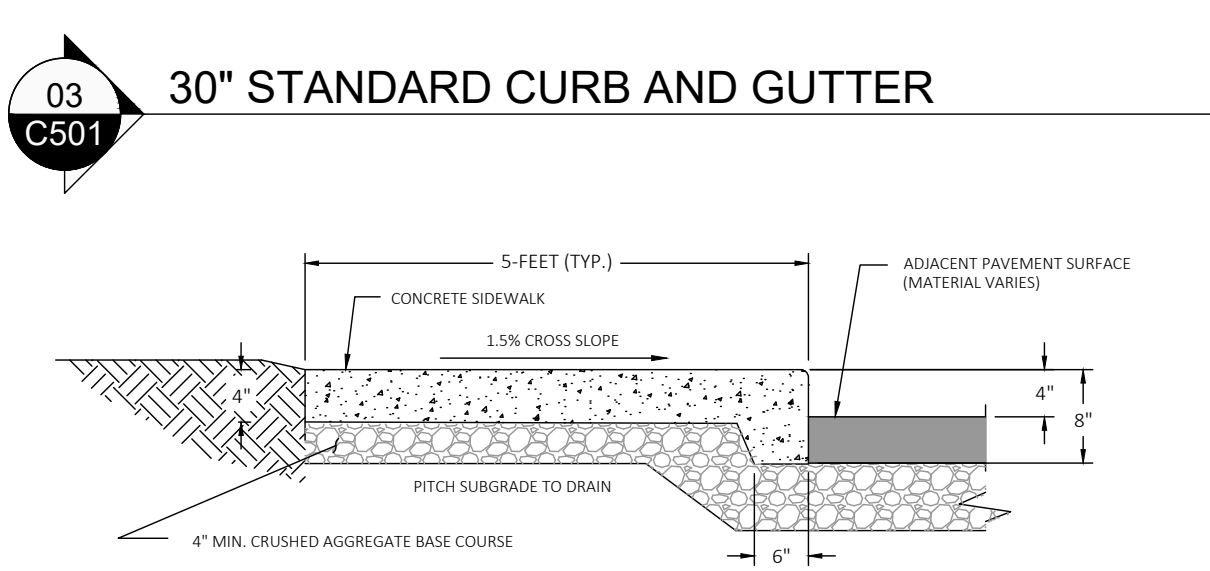
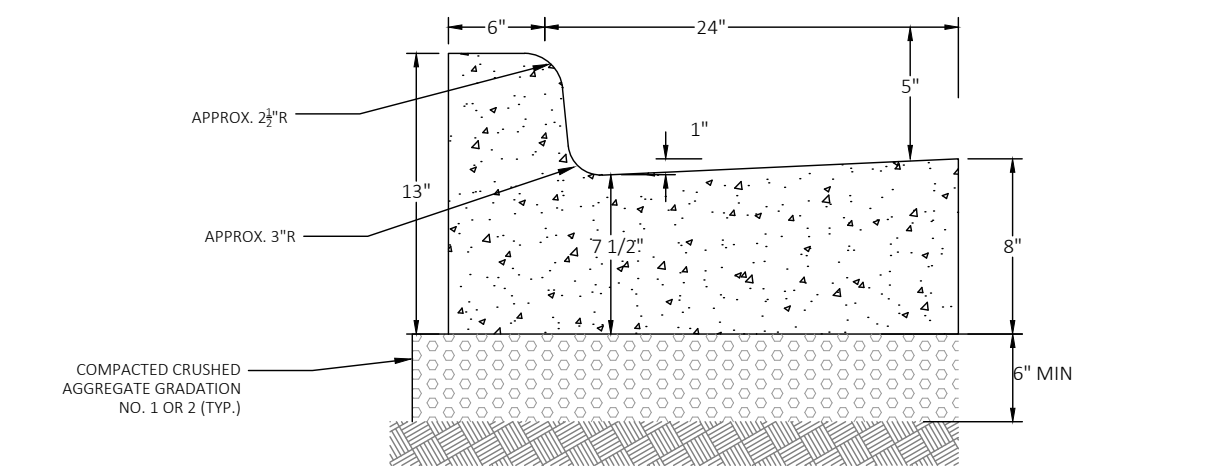
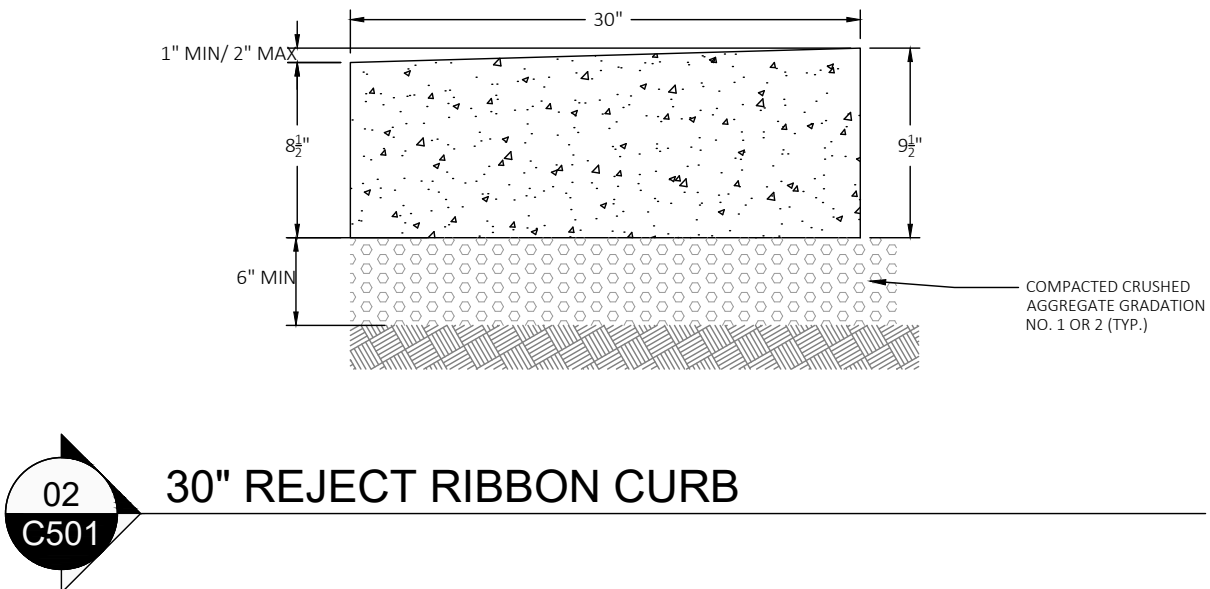
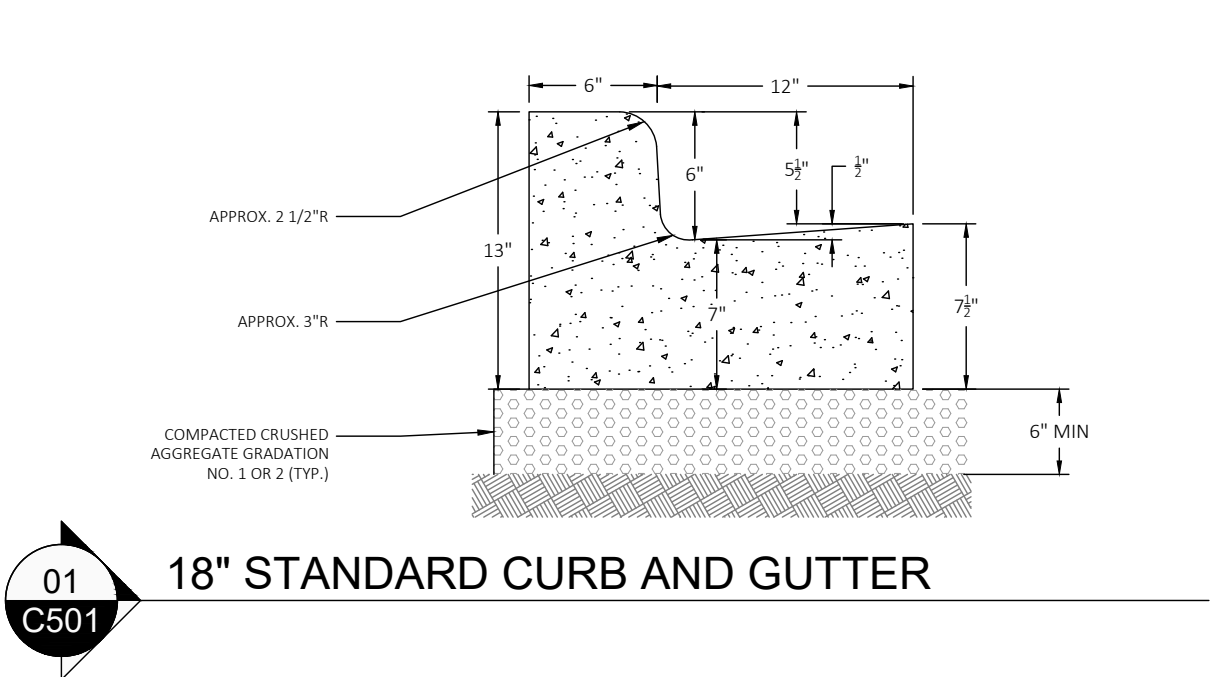
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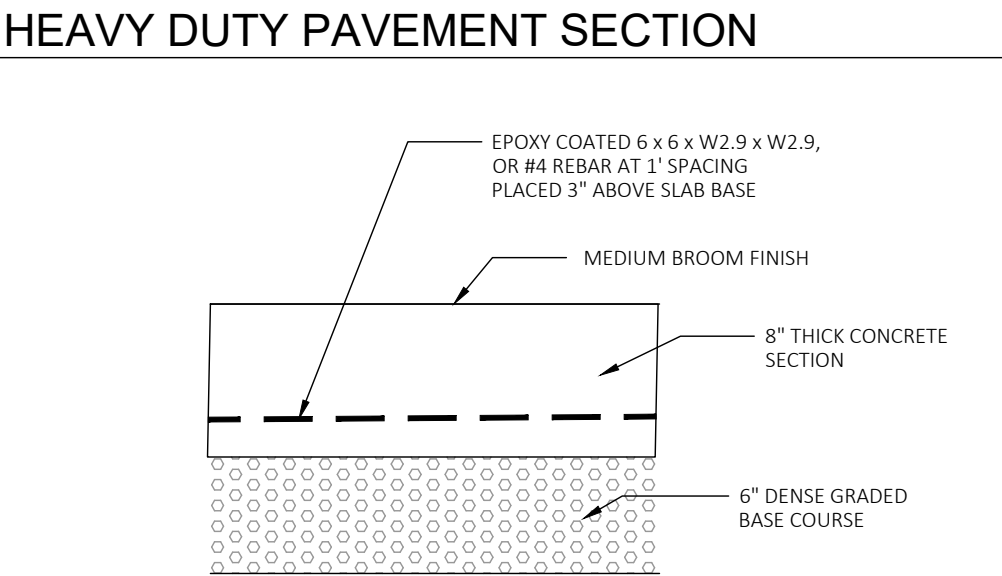
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CIVIL DETAILS

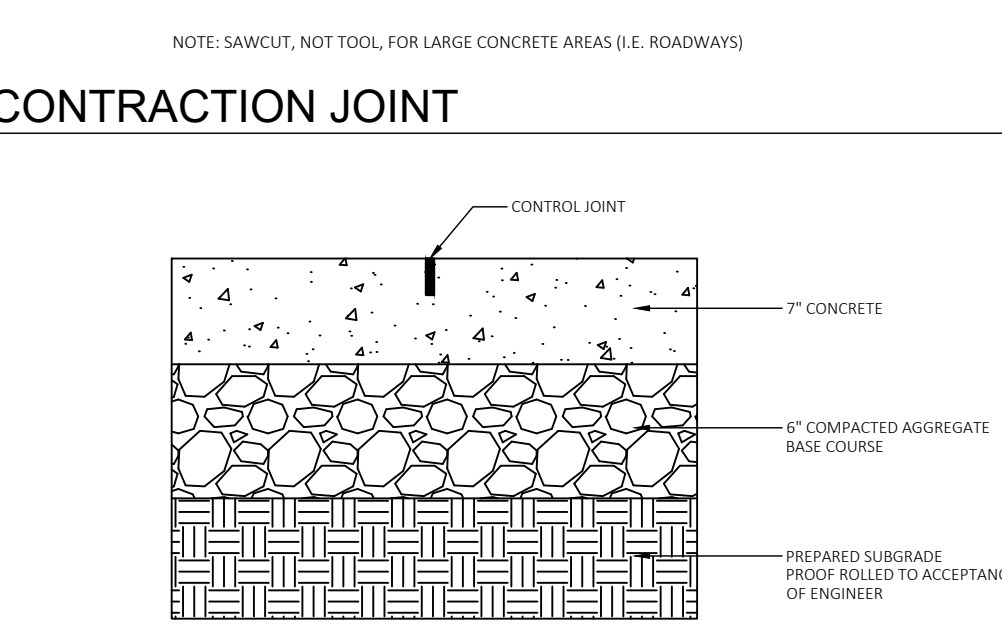
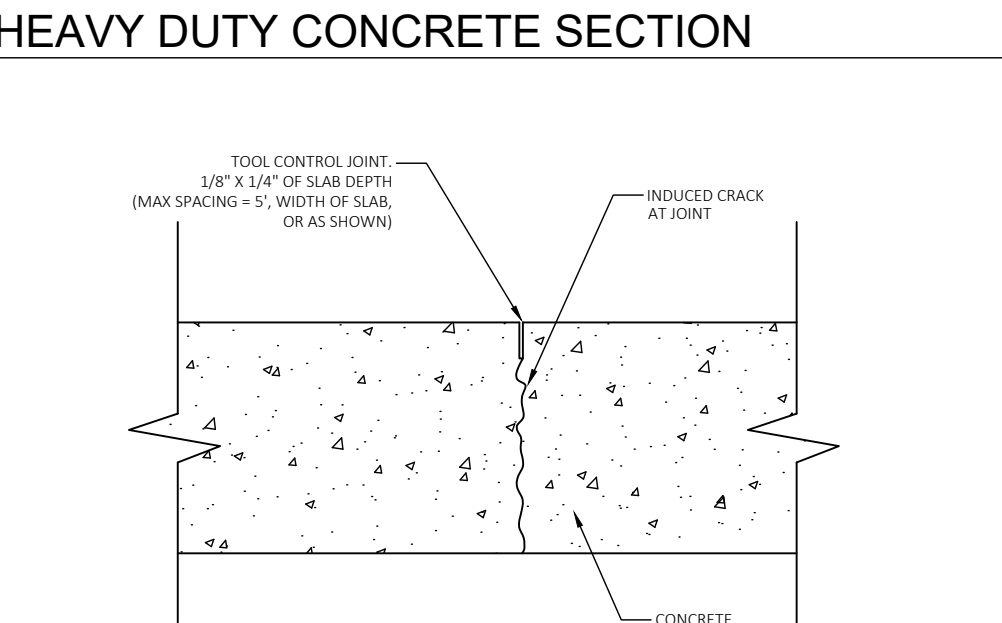
C501



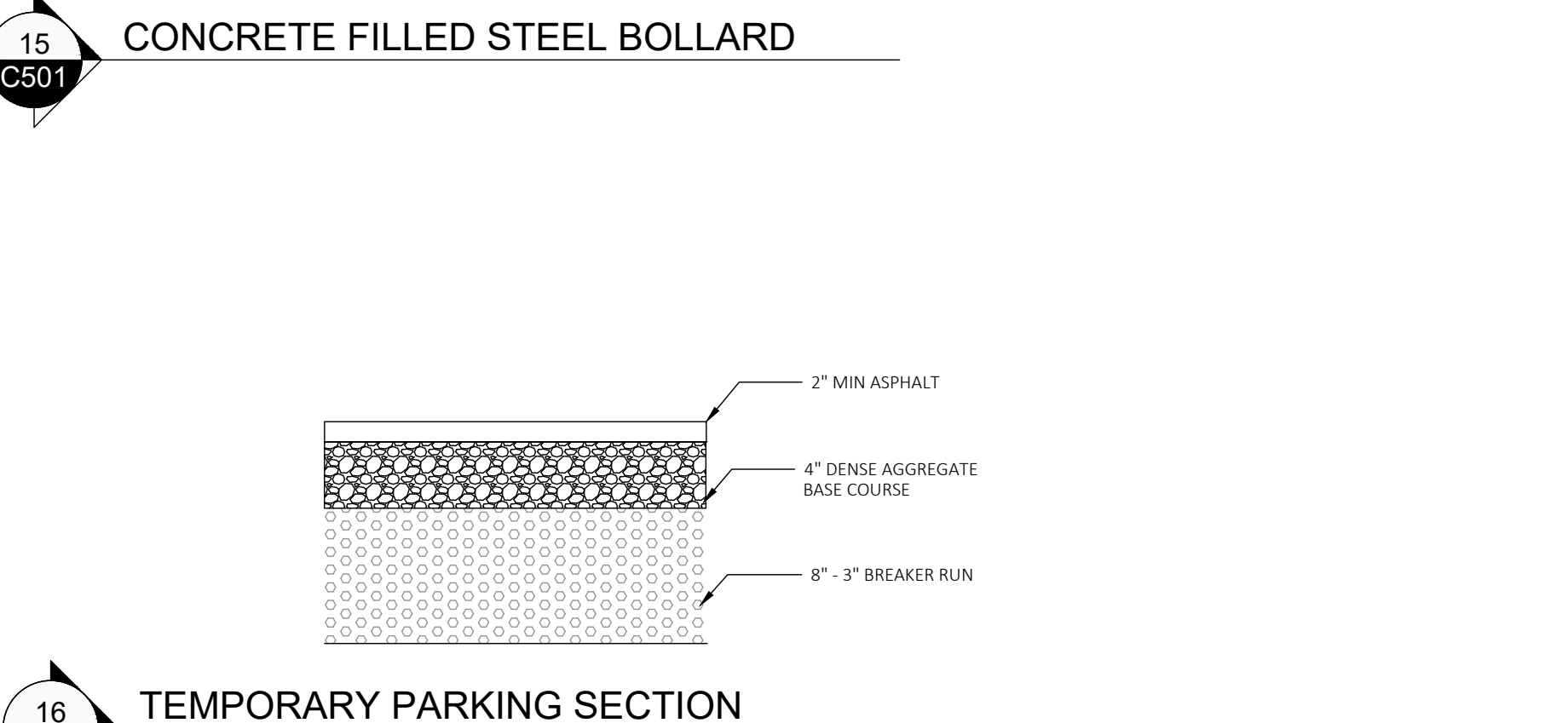
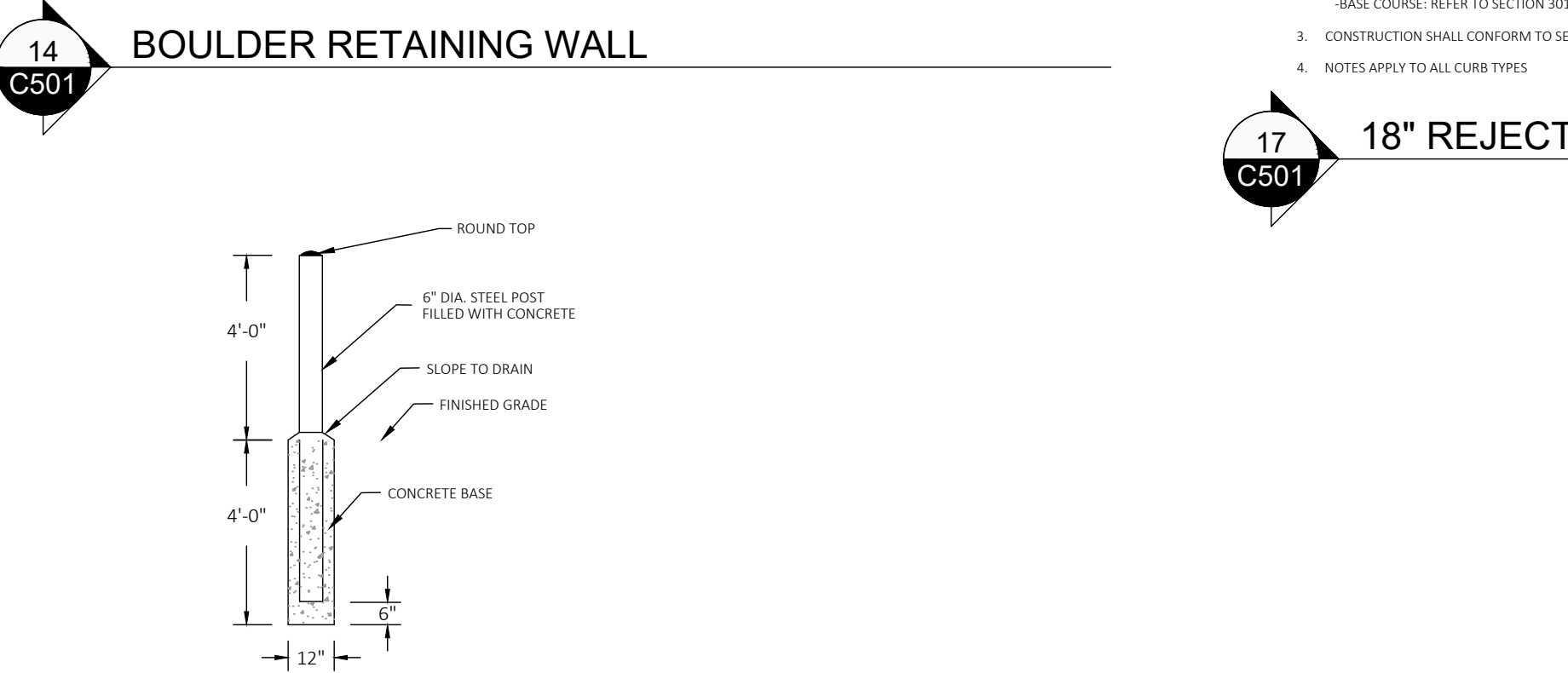
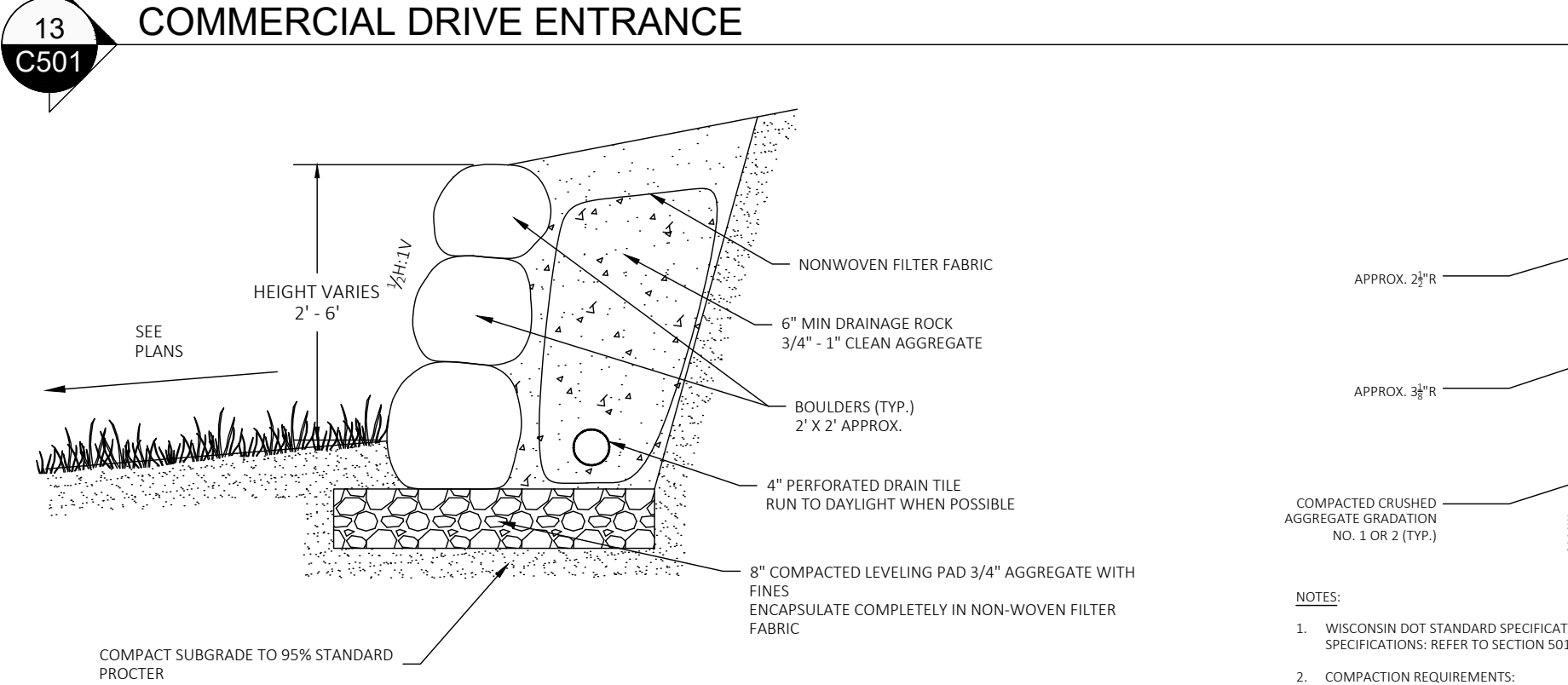
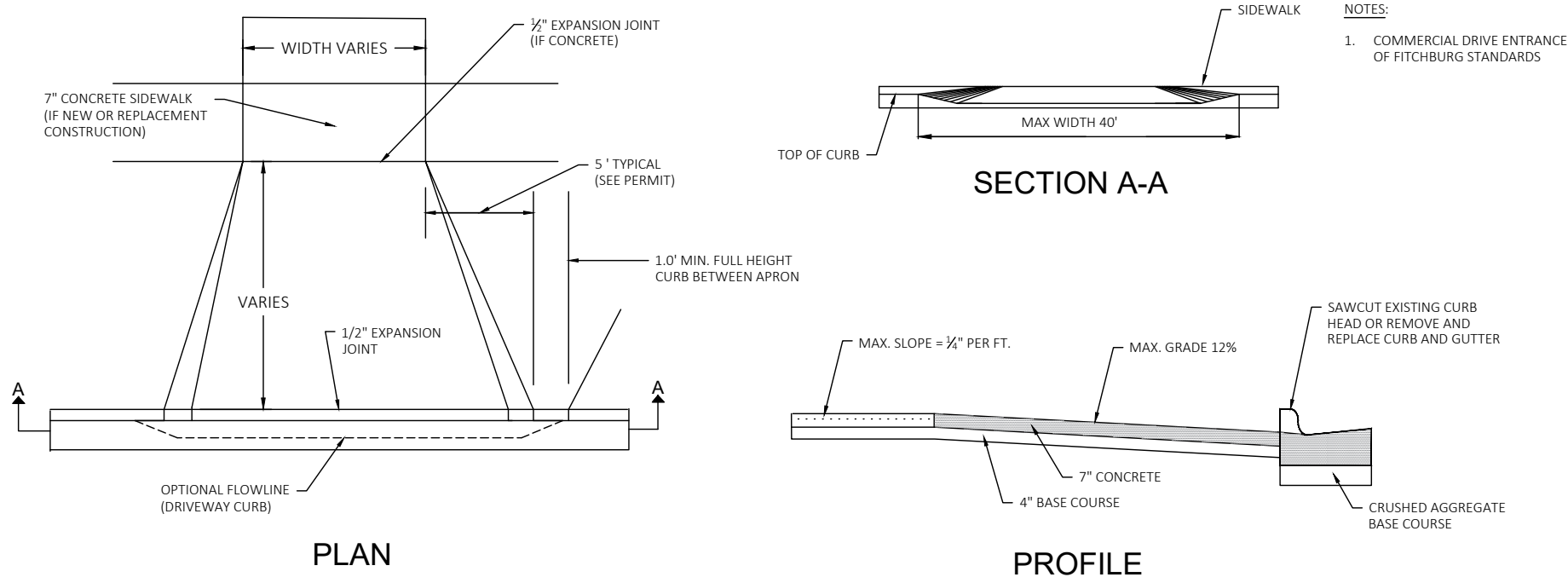
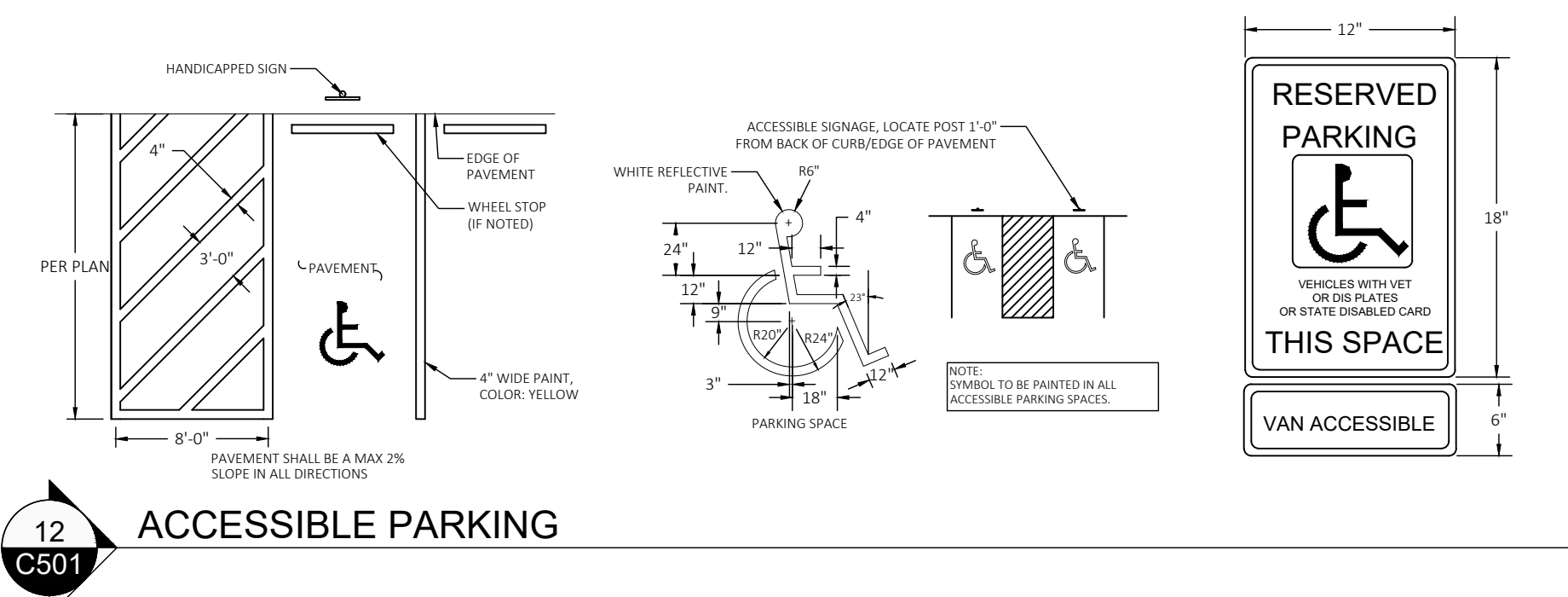
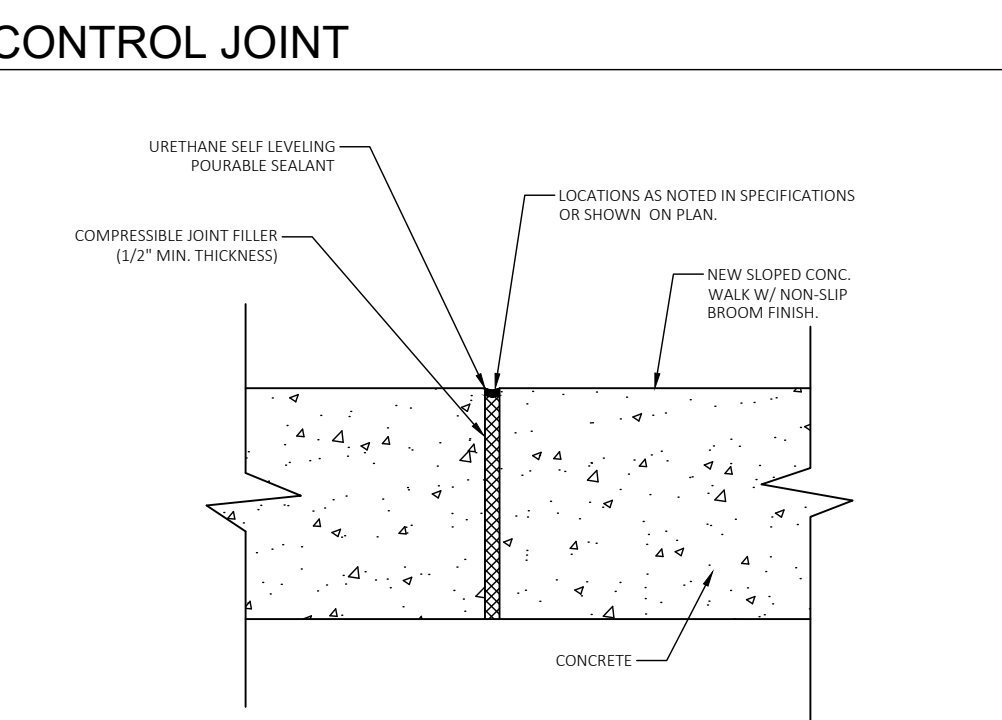
- NOTES:
1. WISCONSIN DOT STANDARD SPECIFICATIONS FOR HIGHWAY AND STRUCTURE CONSTRUCTION, LATEST EDITION, INCLUDING SUPPLEMENT SPECIFICATIONS, BUT EXCLUDING LIMITATIONS IN SECTION 460.3.2 RESTRICTING LAYER THICKNESS BY AGGREGATE SIZE.
 2. COMPACTION REQUIREMENTS:
BITUMINOUS CONCRETE: REFER TO SECTION 460.3
BASE COURSE: REFER TO SECTION 301.3.4.2, STANDARD COMPACTION
 3. MIXTURE TYPE LT (OR E-0.3) BITUMINOUS PAVEMENT IS RECOMMENDED; REFER TO SECTION 460 TABLE 460-2 OF THE STANDARD SPECIFICATIONS
 4. THE UPPER 4 IN SHOULD CONSIST OF 1 1/2 IN DGB; THE BOTTOM PART OF THE LAYER CAN CONSIST OF 3 IN DGB.



1. ALTERNATIVE TO WELDED MESH: PROPEX NOVOMESH 950 (OR EQUIVALENT APPROVED BY ENGINEER) APPLIED AT A RATE OF 7 LBS PER CUBIC YARD.
2. SOFT CUT SAW CONTROL JOINTS TO 1/4 PAVEMENT DEPTH AT 20' O.C.



- GENERAL NOTES:
1. CONTROL JOINTS SHALL BE TOOLED 3/8" PER 1" OF DEPTH OF THE CONCRETE SLAB.
 2. CONTROL JOINTS SHALL BE PLACED SO THAT THE TOTAL SQUARE FOOTAGE OF THE SLAB DOES NOT EXCEED 80 SQUARE FEET TOTAL SURFACE AREA AND BE PLACED TO GIVE THE CONCRETE WORK SOME ARTISTIC CONTINUITY.



NORTH FISH HATCHERY
HUB

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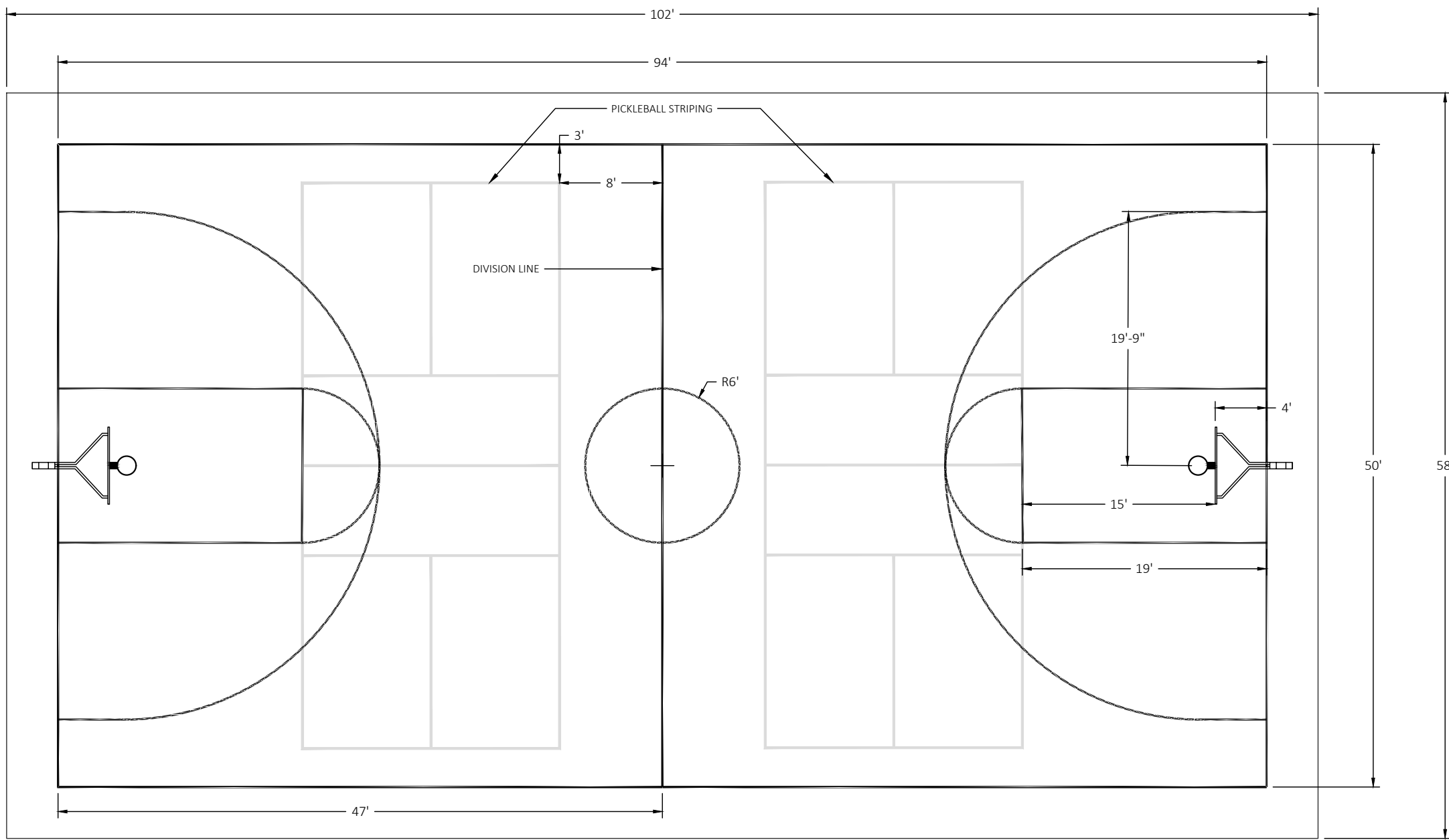
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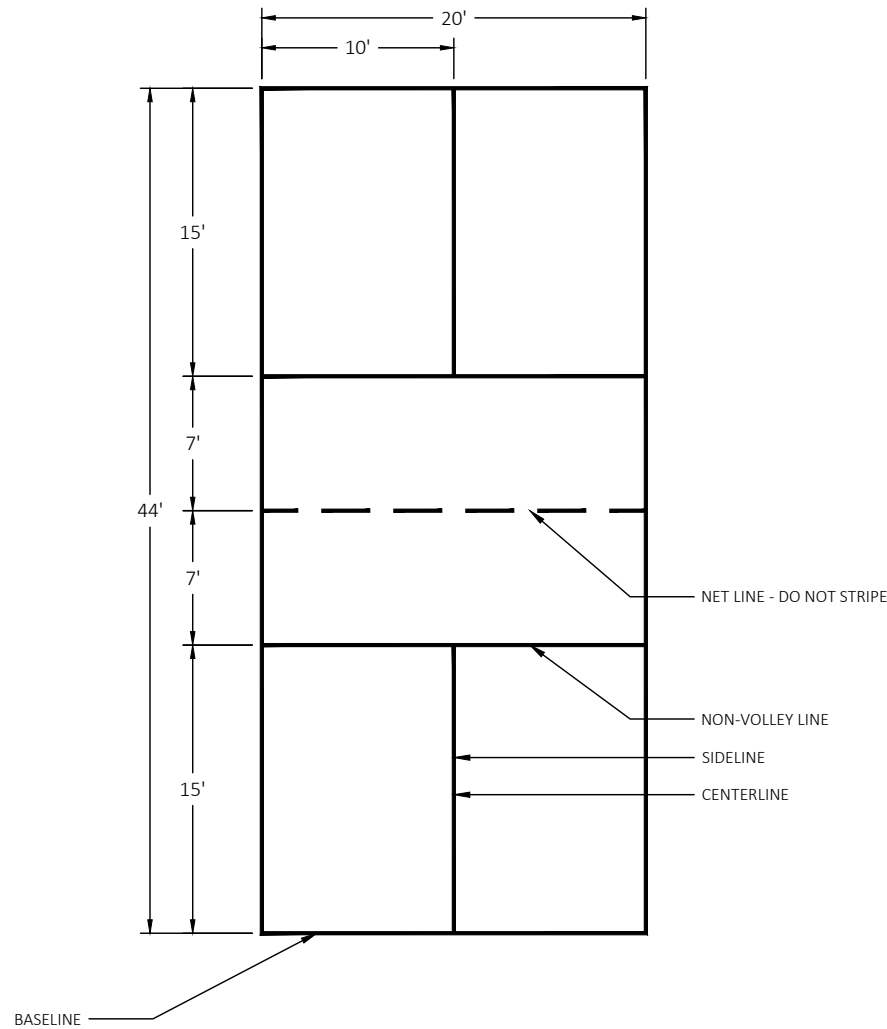
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CIVIL DETAILS

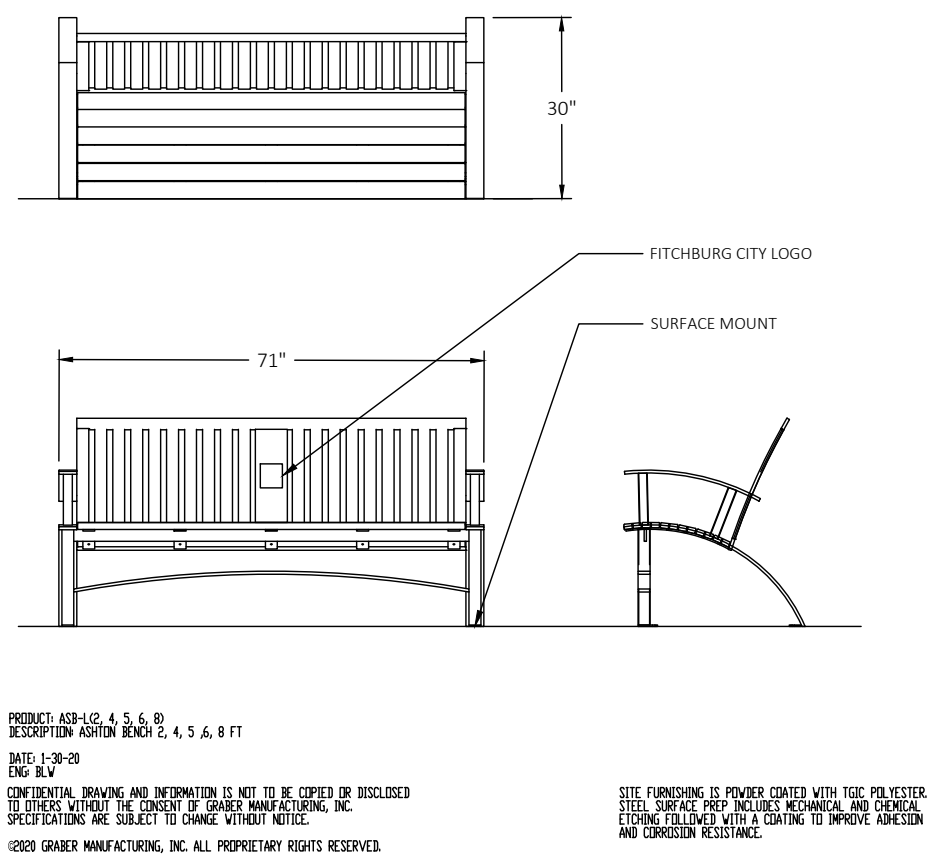
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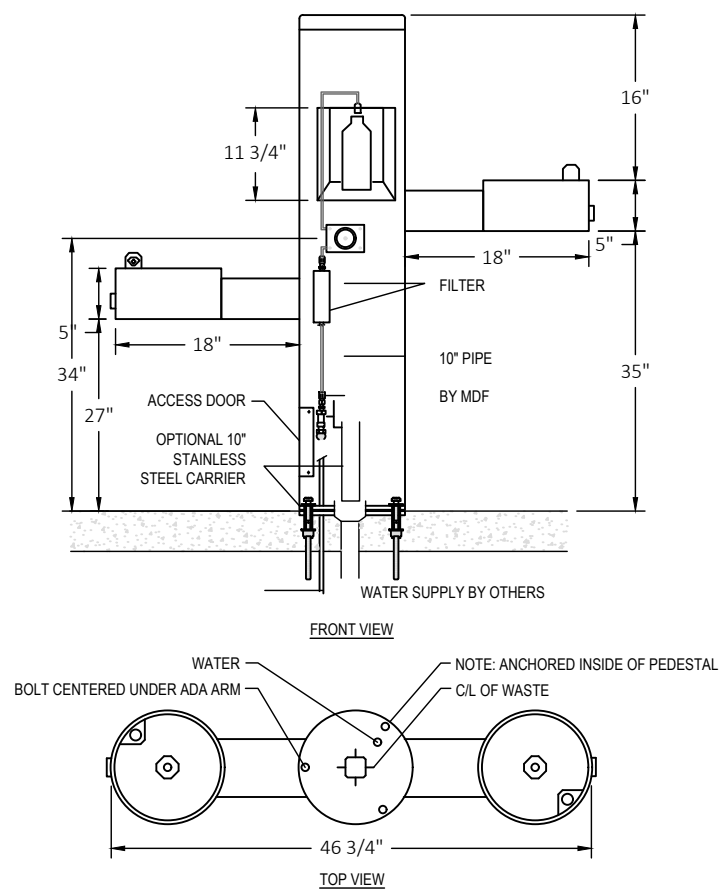
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C502
BASKETBALL COURT



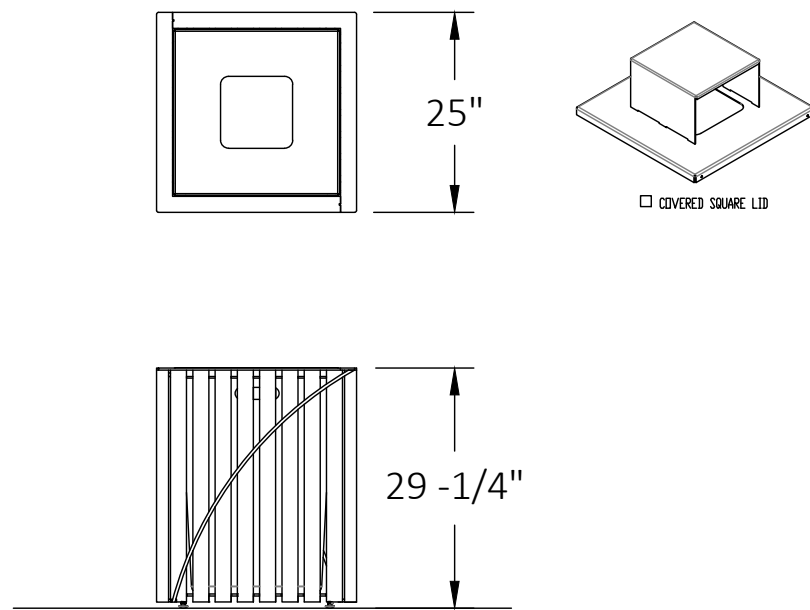
01
C502
PICKLEBALL STRIPING



01
C502
BENCH



01
C502
DRINKING FOUNTAIN



01
C502
TRASH/RECYCLING RECEPTACLE

P:\01052-0014 - FITCHBURG HUB\DRAWINGS\SHEETS\PLAN\C502 STORMWATERDETAILS.DWG

28 October 2022

NORTH FISH HATCHERY
HUB

Traceway Dr., Fitchburg

City of Fitchburg
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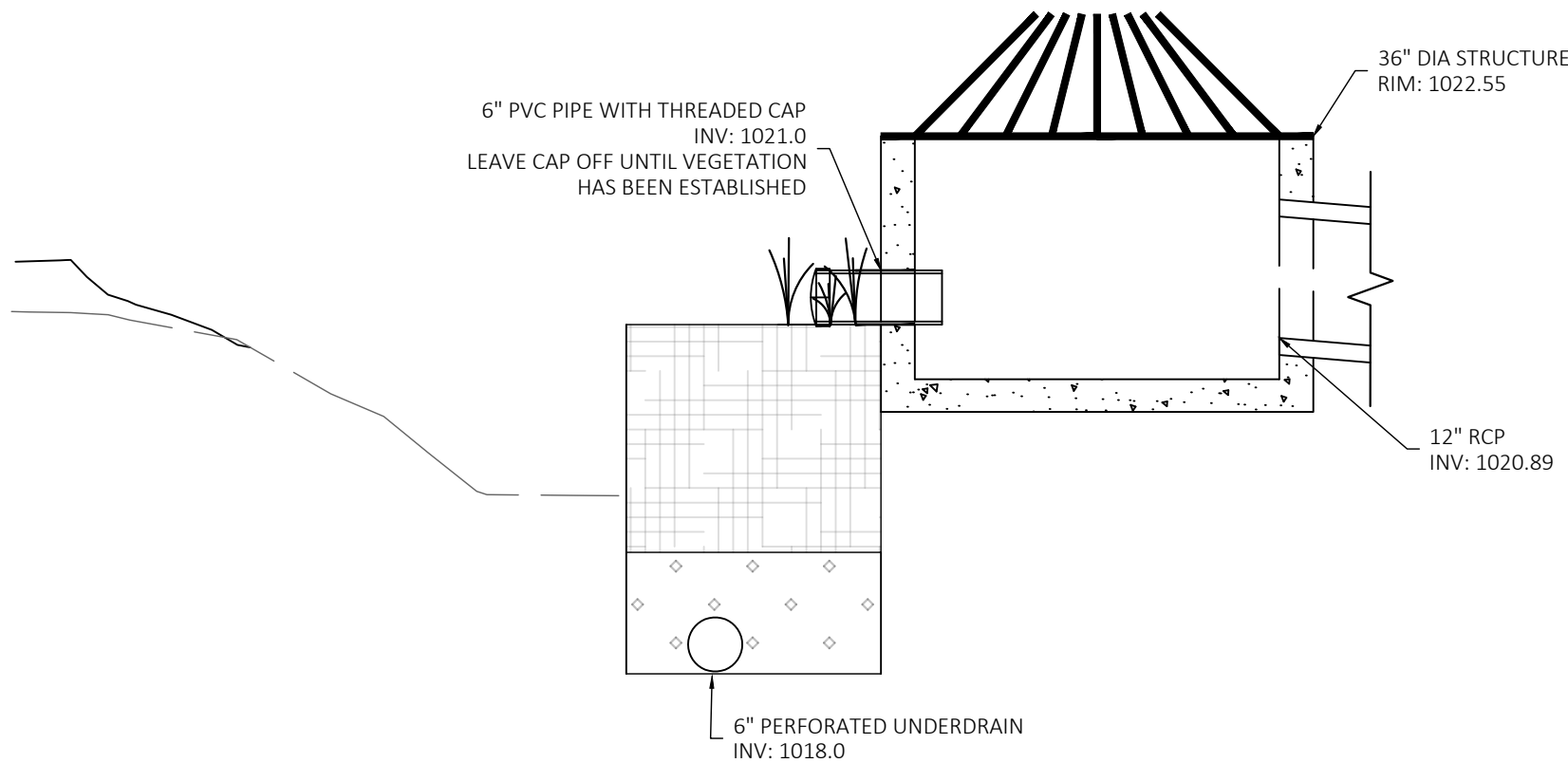
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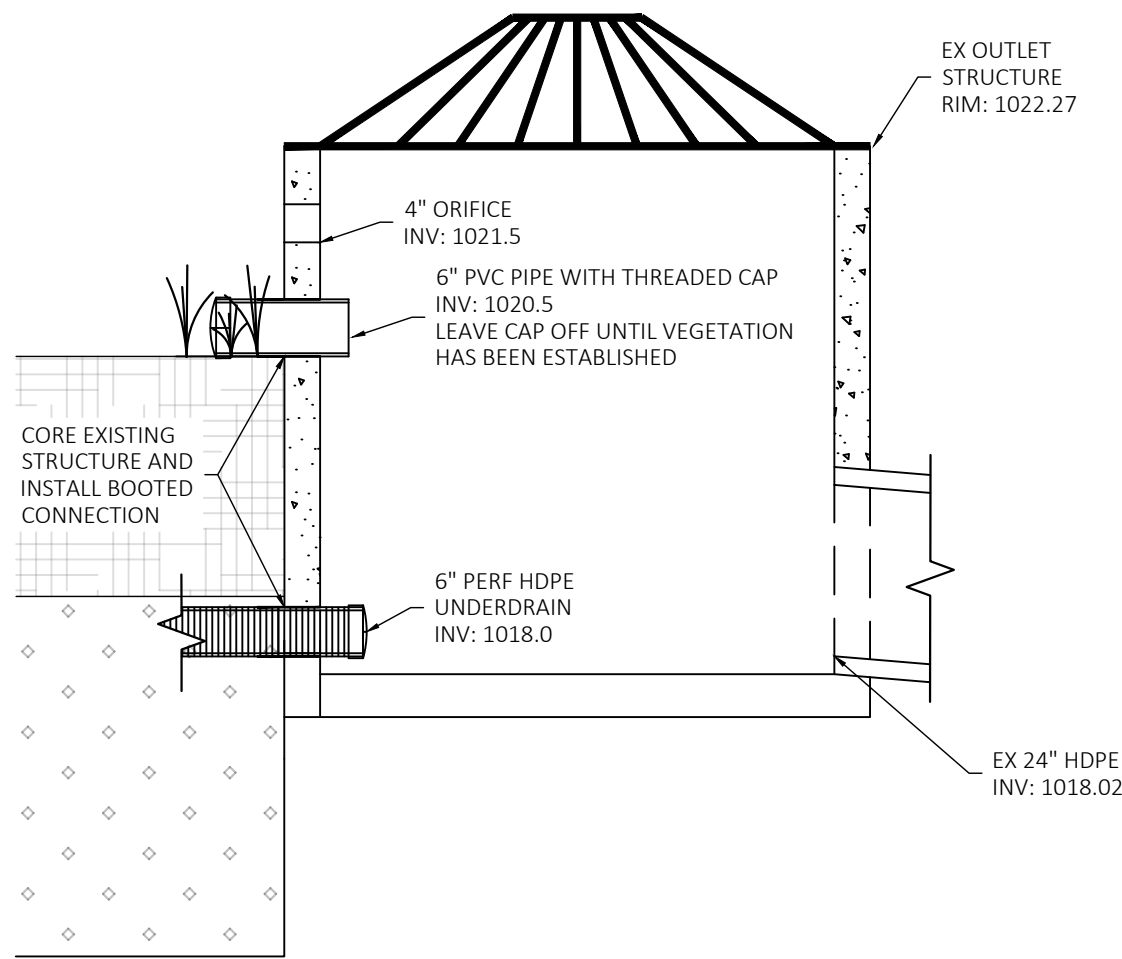
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STORMWATER DETAILS

C503



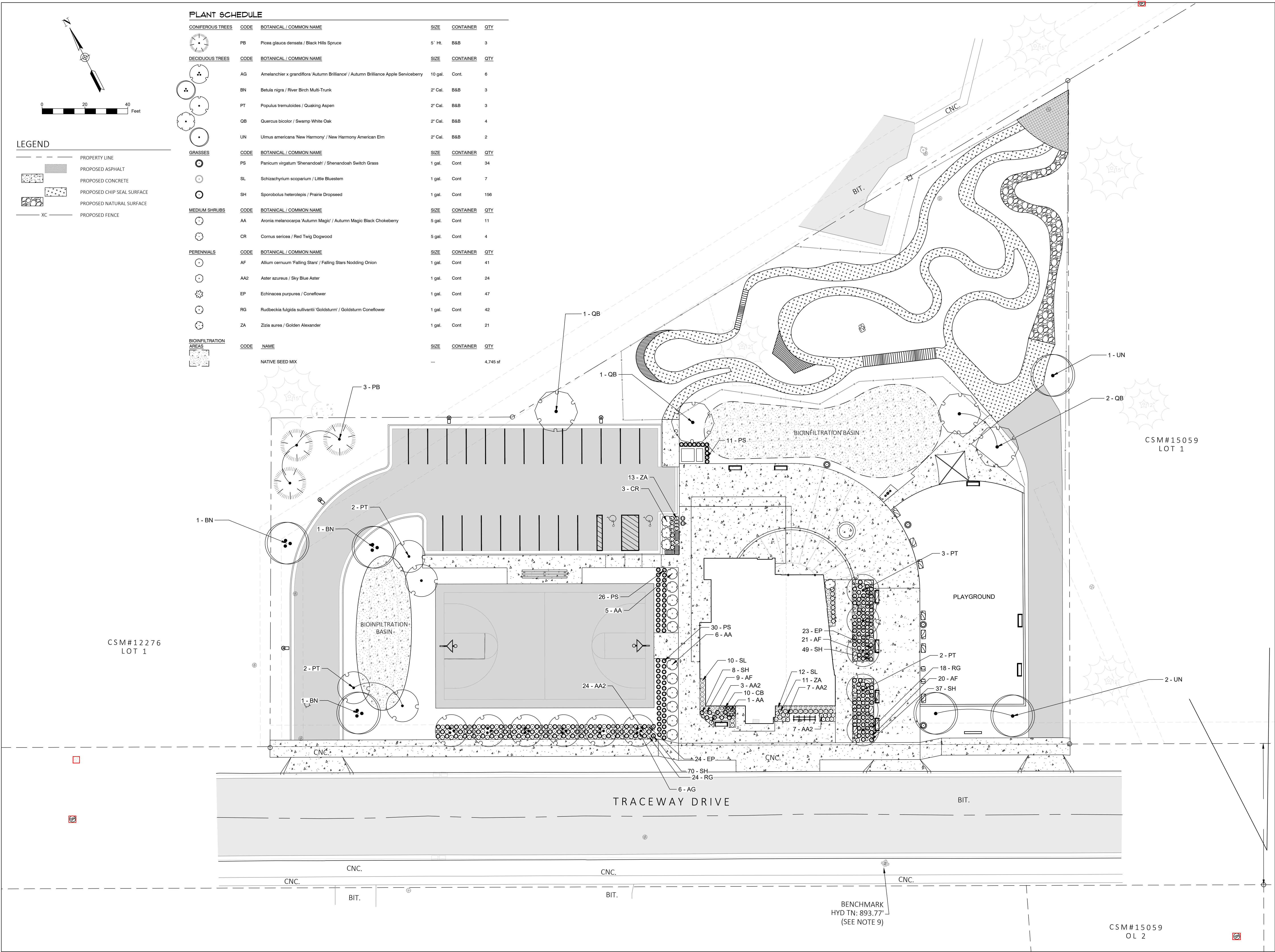
2
C503
EAST BIOFILTRATION FACILITY OUTLET STRUCTURE
NO SCALE



4
C503
WEST BIORETENTION FACILITY OUTLET STRUCTURE
NO SCALE

NOTES:

- BIORETENTION FACILITIES MAY ACT AS A TEMPORARY SEDIMENT TRAP DURING CONSTRUCTION.
 - GRADE FACILITY TO BOTTOM OF ENGINEERED SOIL MIX, PROVIDING A 3' DEEP SEDIMENT STORAGE SUMP DURING CONSTRUCTION.
 - AFTER SITE GRADING IS COMPLETE AND RESTORED, REMOVE ACCUMULATED SEDIMENT AND EXCAVATE TO BOTTOM OF STORAGE LAYER.
 - INSTALL STORAGE LAYER, UNDERDRAIN, ENGINEERED SOIL MIX, AND RESTORE W/ PLUGS
- ENGINEERED SOIL SHALL CONSIST OF A MIXTURE OF 70 TO 85% SAND AND 15 TO 30% COMPOST. COMPOST SHALL BE CERTIFIED ACCORDING TO WDNR SPECIFICATION S100. GEOTECH SHALL FIELD VERIFY MATERIAL PRIOR TO INSTALLATION.
- CONSTRUCTION METHODS SHALL FOLLOW WISCONSIN DNR TECHNICAL STANDARD 1004.
- FILTER FABRIC SHALL BE INSTALLED OVER THE UNDERDRAIN PIPE AND SHALL NOT EXTEND MORE THAN TWO FEET FROM EITHER SIDE OF THE PIPE.
- ENGINEERED SOIL SHALL BE PRE-MIXED PRIOR TO PLACEMENT AND THE MOISTURE CONTENT SHALL BE LOW TO AVOID COMPACTION AND CLUMPING. THE ENGINEERED SOIL SHALL BE PLACED IN MULTIPLE LIFTS, EACH APPROXIMATELY 12-INCHES IN DEPTH. ENGINEERED SOIL CAN BE CAREFULLY TAPPED WITH A BUCKET OR SIMILAR METHOD TO PROVIDE FIRM SURFACE FOR SEEDING BUT COMPACTION WITH HEAVY EQUIPMENT OR VIBRATING PLATE-STYLE COMPACTORS SHALL NOT BE USED.
- STORAGE LAYER SHALL BE EITHER SAND OR GRAVEL, IN ACCORDANCE WITH WISCONSIN DNR TECHNICAL STANDARD 1004, MEETING THE FOLLOWING REQUIREMENTS OR AS APPROVED BY A GEOTECHNICAL PROFESSIONAL:
 - GRAVEL SHALL MEET THE COARSE AGGREGATE #2 AND OTHER SPECIFICATIONS OF WISCONSIN STANDARDS AND SPECIFICATIONS FOR HIGHWAY AND STRUCTURE CONSTRUCTION, SECTION S01.2.5. GRAVEL SHALL BE DOUBLE WASHED.
 - SAND MAY BE USED INSTEAD OF GRAVEL. SAND IS REQUIRED TO BE MEET USDA COURSE SAND (0.02 - 0.04 INCHES), ASTM C33 (FINE AGGREGATE CONCRETE SAND), OR WISCONSIN STANDARDS AND SPECIFICATIONS FOR HIGHWAY AND STRUCTURE CONSTRUCTION, SECTION S01.2.5.3.4 (FINE AGGREGATE CONCRETE SAND) 2005 EDITION.
- SUB SOILS SHALL BE DEEP TURNED OVER WITH AN EXCAVATOR TO BREAK UP POTENTIAL SILT SEAMS. SOIL SHOULD BE OVER TURNED TO A DEPTH OF 5 FEET BELOW THE STORAGE LAYER.
- INFILTRATION AREAS SHALL BE PROTECTED FROM COMPACTION AND SEDIMENTATION DURING CONSTRUCTION.
- CONTRACTOR SHALL DEEP TILL ALL OPEN SPACE AND INFILTRATION AREAS.
- FINISHED BIORETENTION SURFACE SHALL BE LEVEL WITHIN ±0.1 FEET.
- CLASS II, TYPE B EROSION CONTROL MAT SHALL BE USED WHEN RESTORING THE FINISHED BIORETENTION DEVICES PER WISCONSIN DNR TECHNICAL STANDARD 1004. MAT SHALL BE OVERLAPPED AND ANCHORED WITH BIODEGRADABLE STAPLES (6 INCHES OR LONGER TO HOLD THE MAT TO THE MEDIA).
- BIORETENTION AREAS ARE TO BE PLANTED WITH NATIVE PLUGS AT 1' SPACING. PLANTS SHALL BE CONSISTENT WITH AGREECOL'S RAINWATER RENEWAL MIX OR APPROVED SUBSTITUTE, APPLIED PER THE MANUFACTURE'S RECOMMENDED RATE.
- IF AT ANY TIME DURING CONSTRUCTION OF THE BIORETENTION AREA, THE CONTRACTOR COMPACTS THE BIORETENTION AREA BEYOND THE ENGINEER'S SPECIFICATION, THE CONTRACTOR SHALL REWORK, REPLACE, AND/OR REPAIR THE INFILTRATION AREA TO THE ENGINEERS APPROVAL.



NORTH FISH HATCHERY
HUB

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City of Fitchburg
5520 Lacy Rd.
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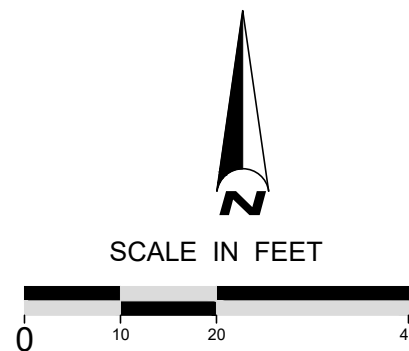
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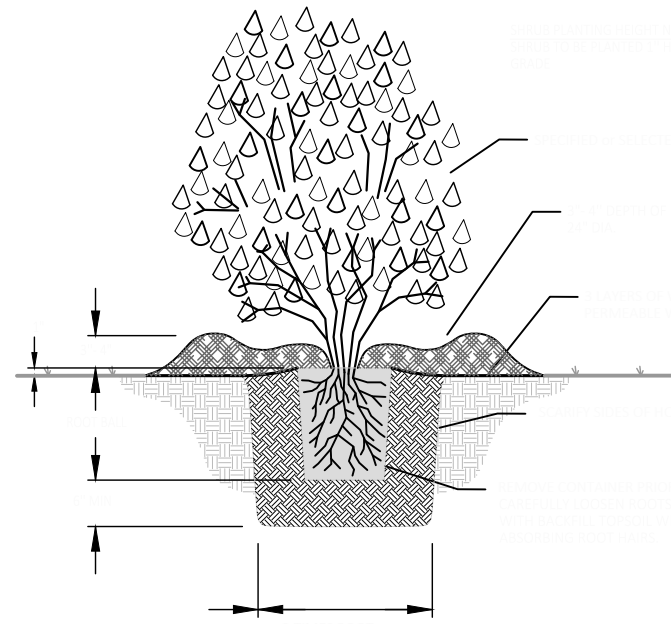
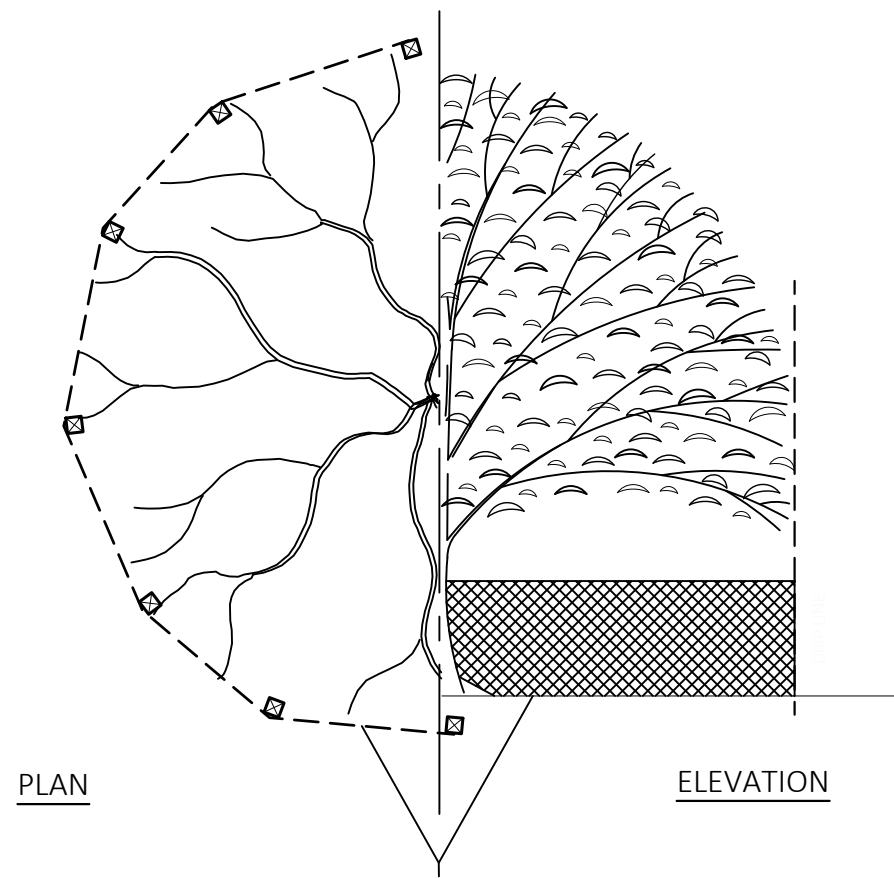
LANDSCAPE PLAN



L100

P:\01052-0014 - FITCHBURG HUB\DRAWINGS\HUB\DRAWINGS\HUB\110 LANDSCAPE DETAILS.DWG

28 October 2022



NORTH FISH HATCHERY
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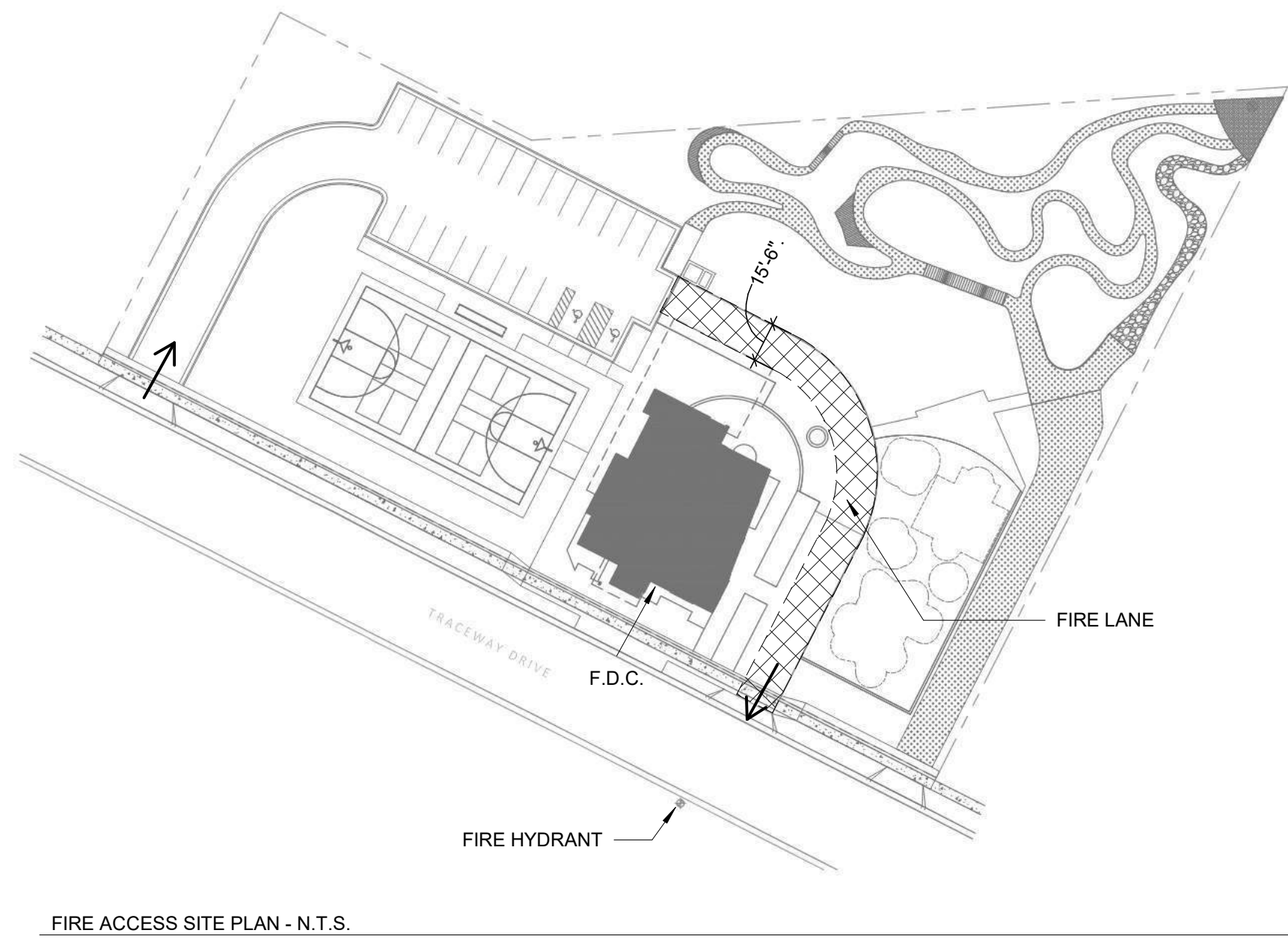
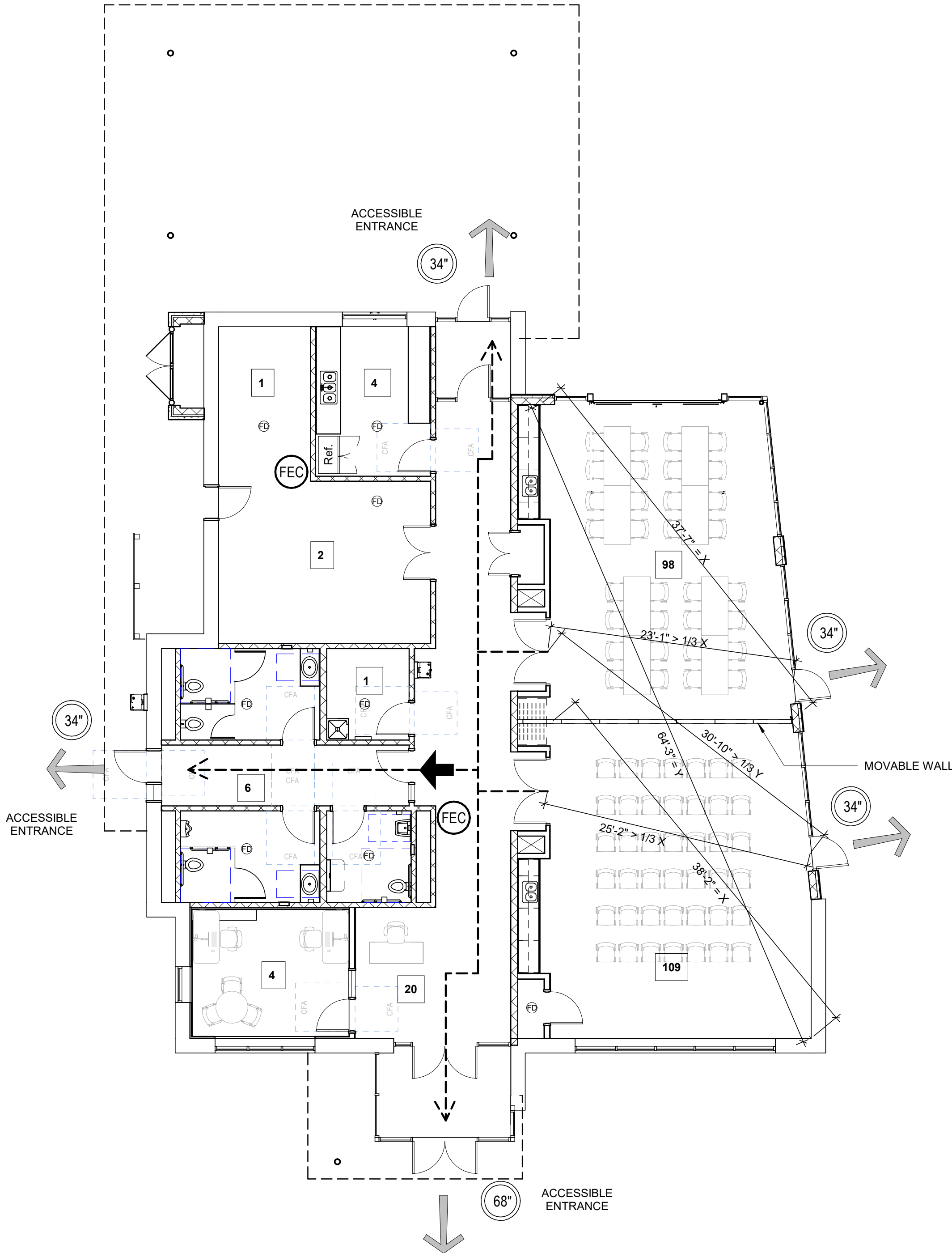
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LANDSCAPE
DETAILS

L110

APPLICABLE CODES				
ZONING CODE	CODE OF ORDINANCES CITY OF FITCHBURG			
BUILDING CODE	IEBC 2015 / IBC 2015			
ACCESSIBILITY CODE	ICC A117.1 - 2009			
FIRE SAFETY CODE	WISCONSIN SPS 314/NFPA 1 - 2012			
PLUMBING CODE	WISONSIN SPS 381-387			
ELECTRICAL CODE	WISCONSIN SPS 3616 / NEC 2011			
MECHANICAL CODE	WISCONSIN SPS 364 / 2015 IMC			
ENERGY CODE	WISCONSIN SPS 363 / 2015 IECC			
ZONING				
CLASSIFICATION	PARK AND RECREATION (P-R)			
PERMITTED USE	RECREATION FACILITIES & AREAS, BIKE TRAILS			SEC. 22-562
MINIMUM LOT SIZE	20,000 SQFT			
MAXIMUM HEIGHT	ENTER HEIGHT AND STORIES ALLOWED HERE			
SETBACKS REQUIRED				
FRONT YARD	25 FEET REQD.		ACTUAL: 10 FEET **	
	** CONDITIONAL USE APPLICATION PER ORDINANCE 2021-O-05			
SIDE YARD	10 FEET			
REAR YARD	50 FEET			
PARKING				
# OF SPACES REQ'D	CONDITIONAL USE APPLICATION PER SEC. 22-563			
# OF SPACES PROVIDED	25			
BUILDING DATA				
OCC. CLASSIFICATION	A3 - ASSEMBLY			
CONSTRUCTION TYPE	5B			
SPRINKLERED	SPRINKLERED			
SEISMIC CATEGORY				
NUMBER OF STORIES	1			
BUILDING TOTAL SIZE				
FIRST FLOOR	3,889 SQFT.			
CONSTRUCTION REQUIREMENTS				
OCC. SEPARATION	NA			
EXT. WALLS-NON BEARING	0			
OPENINGS	0			
STRUCTURAL FRAME	0			
PARTITIONS	0			
SHAFT ENCLOSURES	0			
FLOOR/CEILING	0			
ROOF/CEILING	0			
ROOFING CLASSIFICATION	C			
ENERGY				
CLIMATE ZONE	6			
ENVELOPE REQUIREMENTS	R-VALUE	U-VALUE		PROVIDED
ROOF	30	0.032		33
WALLS	13 + 13	0.052		.051
BELOW GRADE	7.5	0.119 (C-VALUE)		10 R
FLOORS	30	0.033		NA
SLAB ON GRADE	10 @ 25" BELOW	0.54 (F-VALUE)		10
DOORS	4.75	0.37		-
FENESTRATION REQUIREMENTS	U-VALUE	SHGC SEW	SHGC N	PROVIDED
FIXED	0.38	0.40	0.53	XX
OPERABLE	0.45	0.40	0.53	NA
DOORS	0.77	0.40	0.53	XX
SKYLIGHTS	0.50	0.40		NA

MEANS OF EGRESS						
OCCUPANT LOAD						
FIRST FLOOR		1004.1.2 = 245 OCCUPANTS TOTAL - SEE PLAN				
EXIT ACCESS TRAVEL DISTANCE		250 FEET MAX.				
TOTAL STAIR WIDTH REQ'D		NA				
TOTAL STAIR WIDTH PROVIDED		NA				
CORRIDOR WIDTH REQ'D		PER SECTION 1005.3.2 - 49 INCHES REQD.				
CORRIDOR WIDTH PROVIDED		84 INCHES				
EXIT DOOR WIDTH REQ'D		PER SECTION 1005.3.2 - 49 INCHES REQD.				
EXIT DOOR WIDTH PROVIDED		MIN. 34" PER EXIT / 170 OCCUPANTS PER EXIT				
		5 PUBLIC EXITS - SEE PLAN				
PLUMBING						
INSERT APPLICABLE CODE AND OCCUPANCY CALCULATION METHOD						
FIXTURES		OCCUPANT LOAD		REQUIREMENTS	REQUIRED	PROVIDED
WATER CLOSETS		MEN	123	1 PER 120 OCCUPANTS*	1	2
		WOMEN	123	1 PER 65 OCCUPANTS	2	3
					3	5
LAVATORIES		MEN	123	1 PER 200 OCCUPANTS	1	1
		WOMEN	123	1 PER 200 OCCUPANTS	1	2
					2	3
DRINKING FOUNTAINS		245 OCCUPANTS		1 PER 500 OCCUPANTS	1	2
SERVICE SINKS					1	1
NOTES						
* = MENS WATER CLOSETS CAN BE DIVIDED EQUALLY INTO URINALS AND TOILETS.						
SECTION 890.810 MINIMUM NUMBER OF PLUMBING FIXTURES						
1) BUILDINGS THAT INCORPORATE MORE THAN ONE TYPE OF BUILDING USE OF OCCUPANCY, AS CLASSIFIED BY THE DEPARTMENT, SHALL PROVIDE THE COMBINED NUMBERS OF FIXTURES REQUIRED FOR THE INDIVIDUAL USES.						
2) OCCUPANT LOAD. FOR THOSE BUILDING TYPES WHERE THE MINIMUM NUMBER OF PLUMBING FIXTURES REQUIRED IN APPENDIX A, TABLE B, IS DEPENDENT UPON THE BUILDING'S OCCUPANT LOAD, SUCH OCCUPANT LOAD SHALL BE THE ESTIMATED TOTAL OCCUPANT LOAD.						
NOTES						
-						



1 FIRST FLOOR CODE CONFORMANCE PLAN
SCALE: 1/8" = 1'-0"

GRAPHIC SYMBOLS	
	PATH OF EGRESS
	EXIT ACCESS
	EXIT TO GRADE
	EGRESS COMPONENT WIDTH
	FIRE EXTINGUISHER IN CABINET
	AREA OCCUPANCY COUNT
	1 HOUR FIRE PARTITION
SEE ELECTRICAL DRAWINGS FOR EMERGENCY LIGHTING & EXIT SIGN LOCATIONS	

NORTH FISH HATCHERY HUB

Traceway Dr., Fitchburg

City of Fitchburg
5520 Lacy Rd.
Fitchburg, Wisconsin 53711-5318

PROJECT NUMBER 203283.00

ISSUED FOR:

DD PRICING 10-28-22

REVISION FOR:

NO. DESCRIPTION DATE

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CODE CONFORMANCE

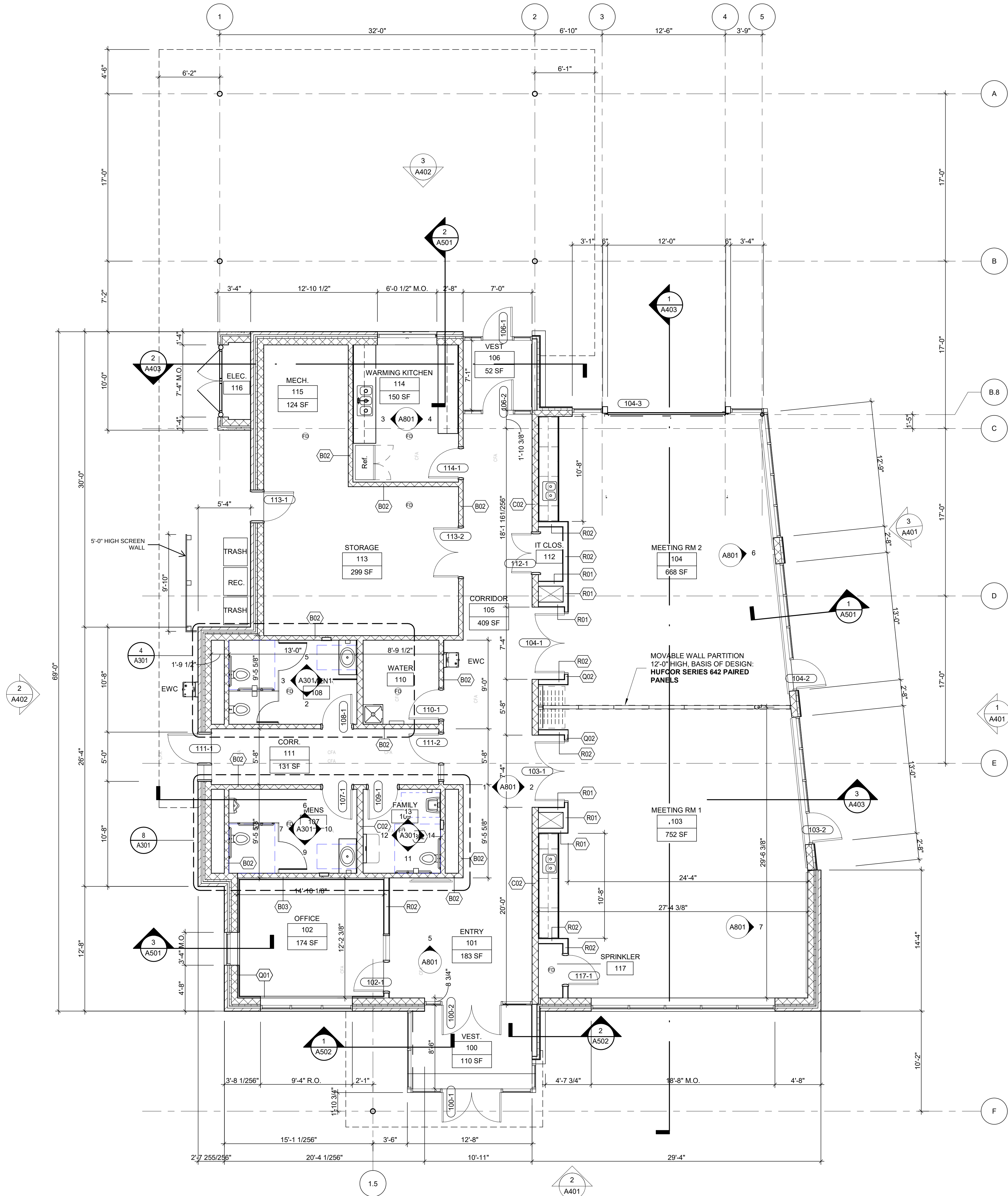
A001

GENERAL NOTES

1. ALL EXTERIOR DIMENSIONS ARE TO FACE OF BRICK AT MASONRY WALLS OR FACE OF SHEATHING AT WOOD STUD WALLS U.N.O.
2. ALL DIMENSIONS OF INTERIOR WALLS ARE TO FACE OF CMU OR GYPSUM BOARD U.N.O.
3. INTERIOR DOOR JAMBS ARE 6" FROM FACE OF JAMB TO ADJACENT WALL U.N.O.
4. PROVIDE BLOCKING IN WALLS AS REQUIRED FOR ALL WALL MOUNTED EQUIPMENT & ACCESSORIES

ARCHITECTURAL LEDGED:

N.I.C. NOT IN CONTRACT
U.N.O. UNLESS NOTED OTHERWISE
F.V. FIELD VERIFY
R.O. ROUGH OPENING
M.O. MASONRY OPENING



1 FIRST FLOOR PLAN
SCALE: 3/16" = 1'-0"

NORTH FISH HATCHERY
HUB

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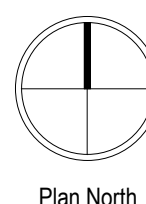
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FIRST FLOOR PLAN

A101



GENERAL NOTES

1. ALL EXTERIOR DIMENSIONS ARE TO FACE OF BRICK AT MASONRY WALLS OR FACE OF SHEATHING AT WOOD STUD WALLS U.N.O.
2. ALL DIMENSIONS OF INTERIOR WALLS ARE TO FACE OF CMU OR GYPSUM BOARD U.N.O.
3. INTERIOR DOOR JAMBS ARE 6" FROM FACE OF JAMB TO ADJACENT WALL U.N.O.
4. PROVIDE BLOCKING IN WALLS AS REQUIRED FOR ALL WALL MOUNTED EQUIPMENT & ACCESSORIES

ARCHITECTURAL LEDGED:

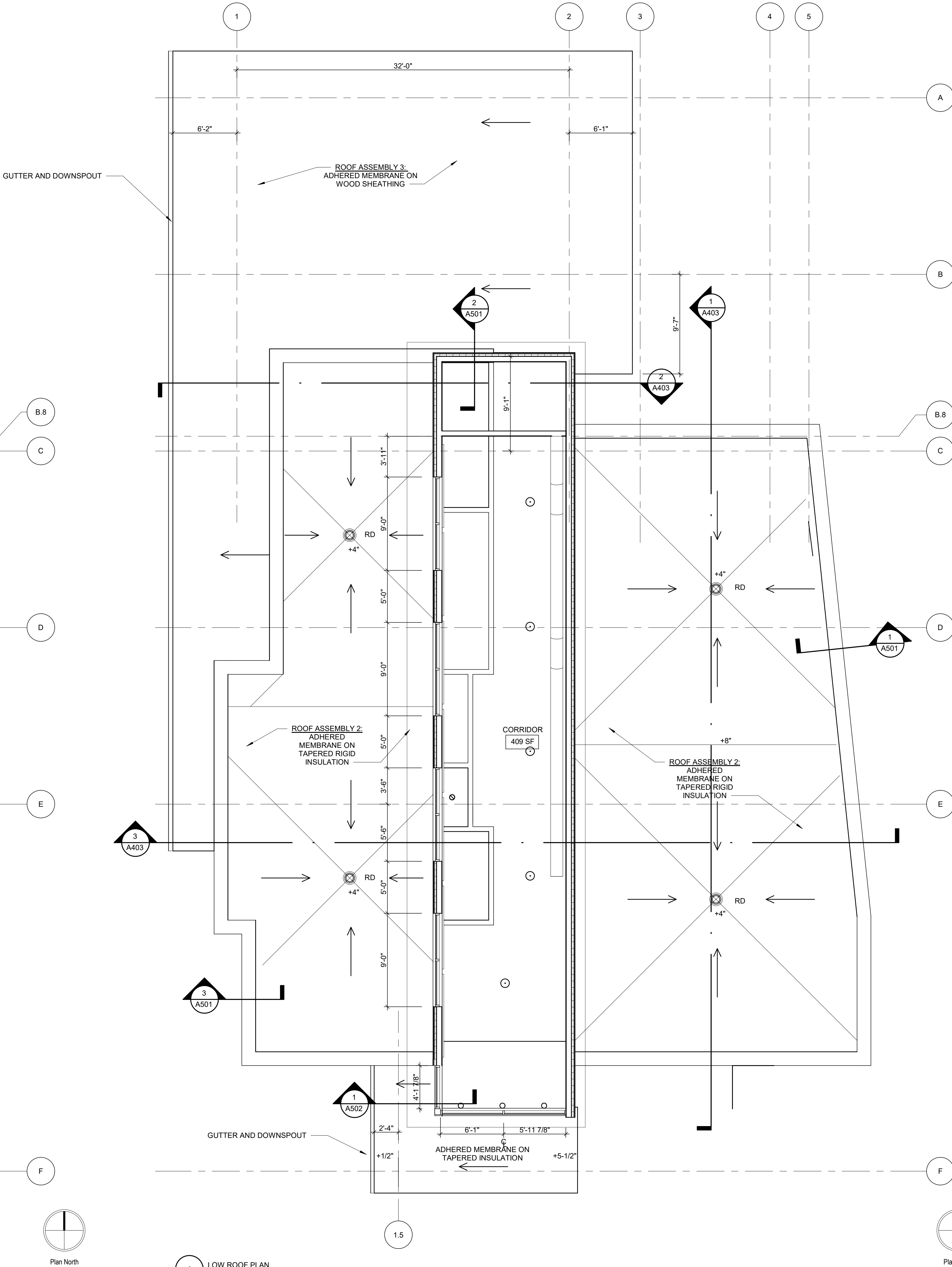
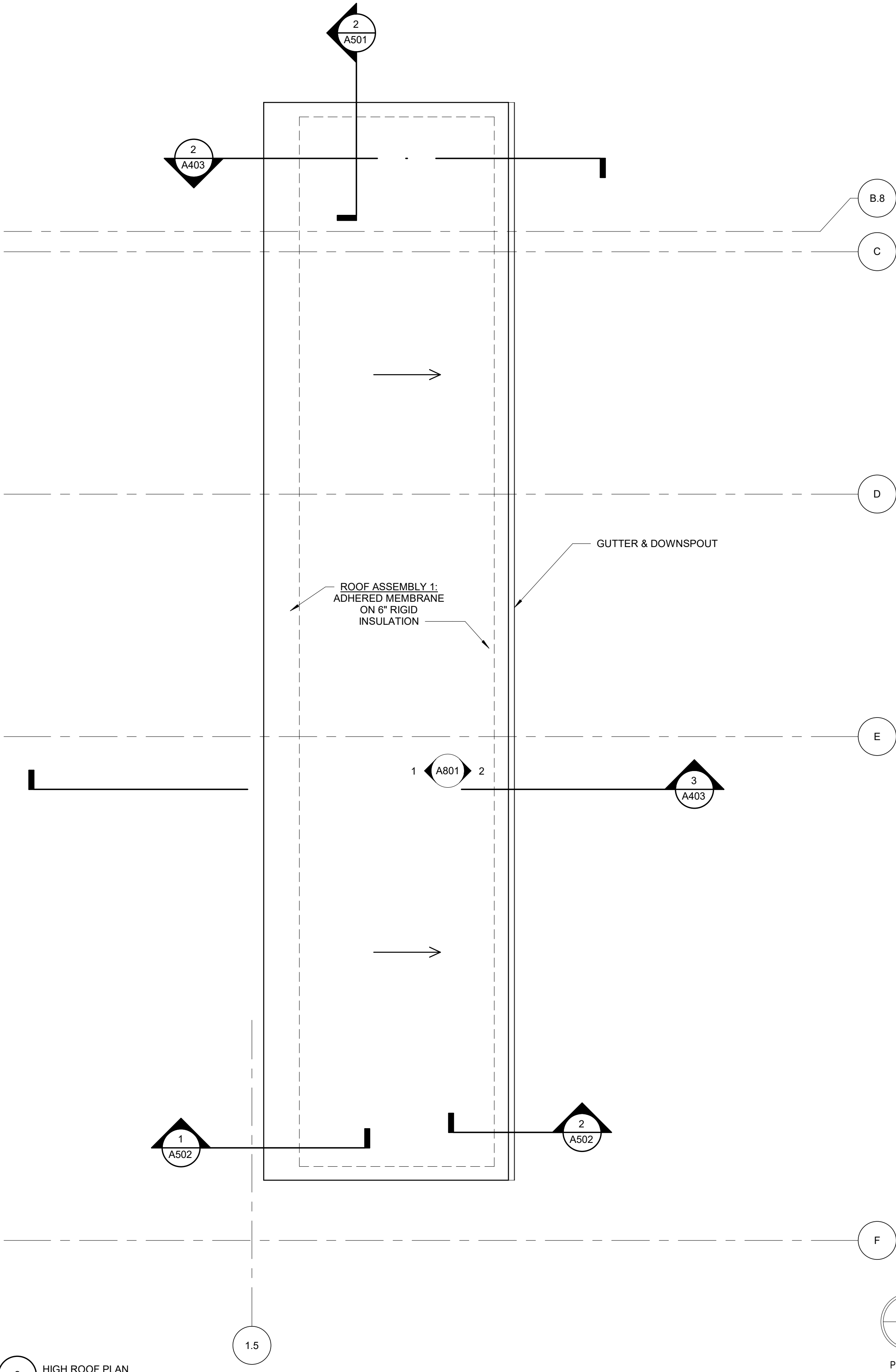
N.I.C. NOT IN CONTRACT

U.N.O. UNLESS NOTED OTHERWISE

F.V. FIELD VERIFY

R.O. ROUGH OPENING

M.O. MASONRY OPENING



NORTH FISH HATCHERY
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ROOF PLANS

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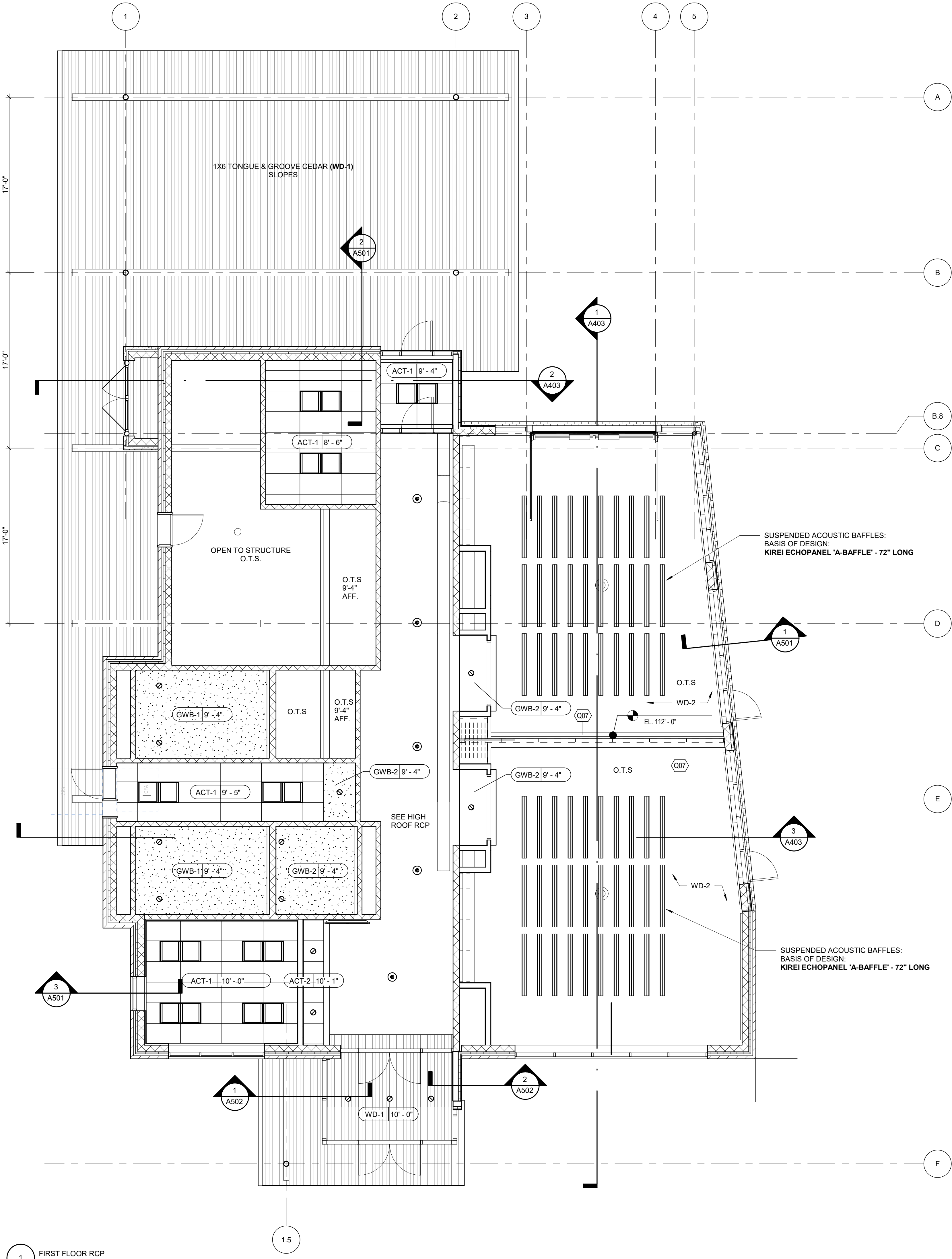
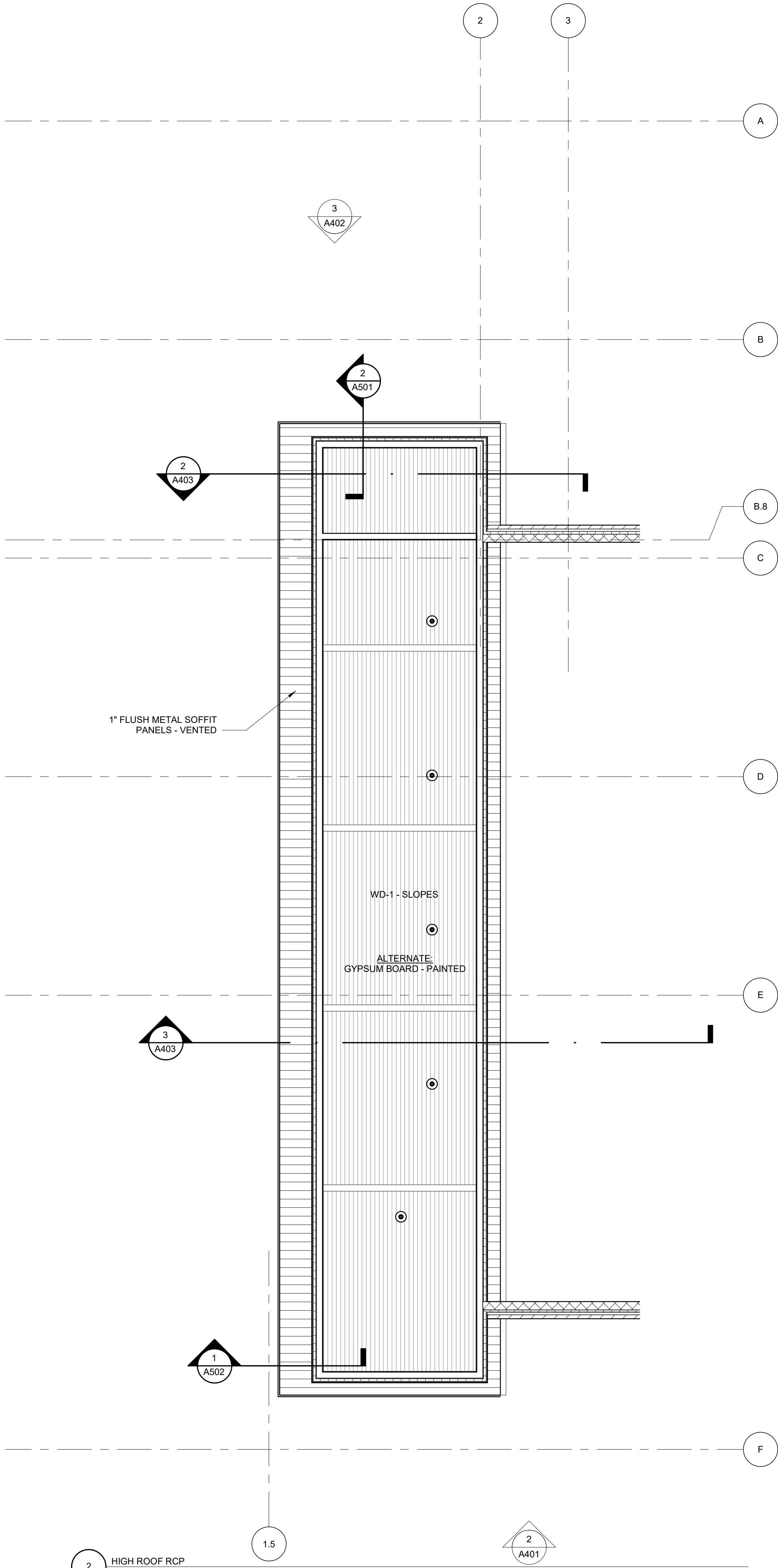
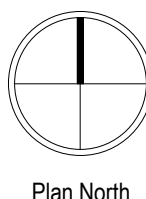
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REFLECTED CEILING
PLANS

A201



NORTH FISH HATCHERY
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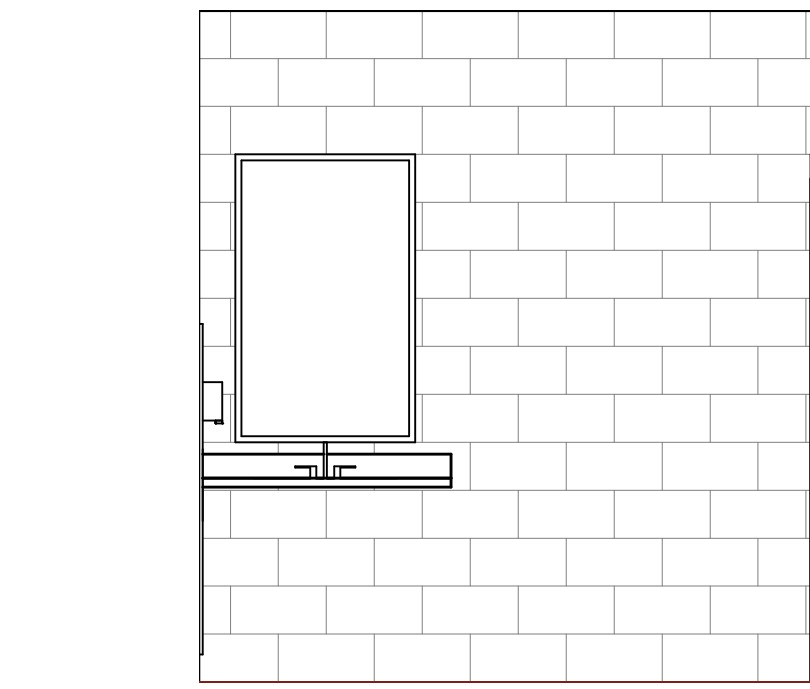
Author

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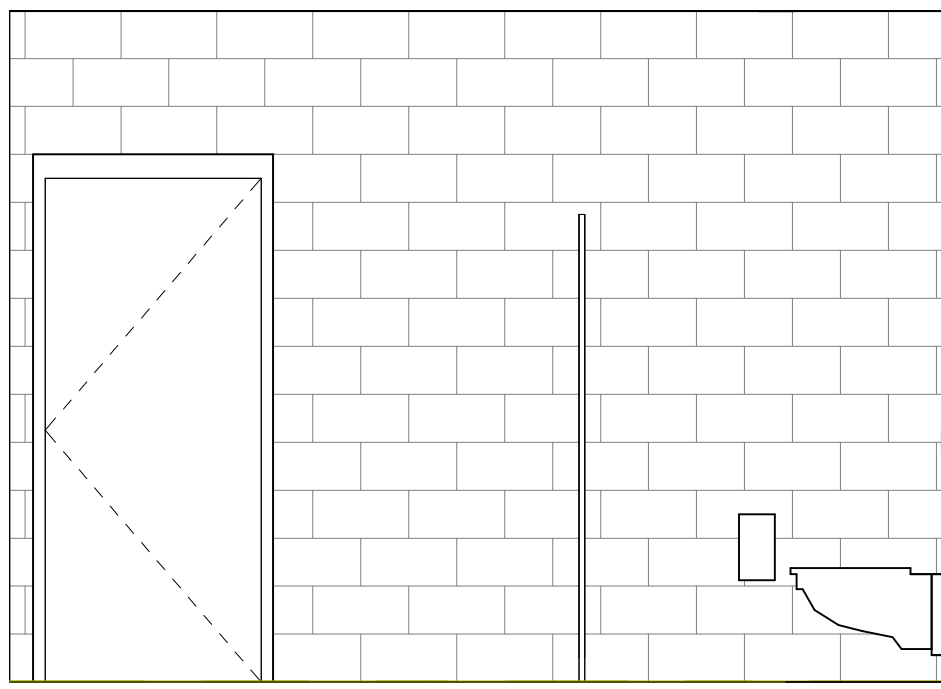
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ENLARGED TOILET
PLANS & ELEVATIONS

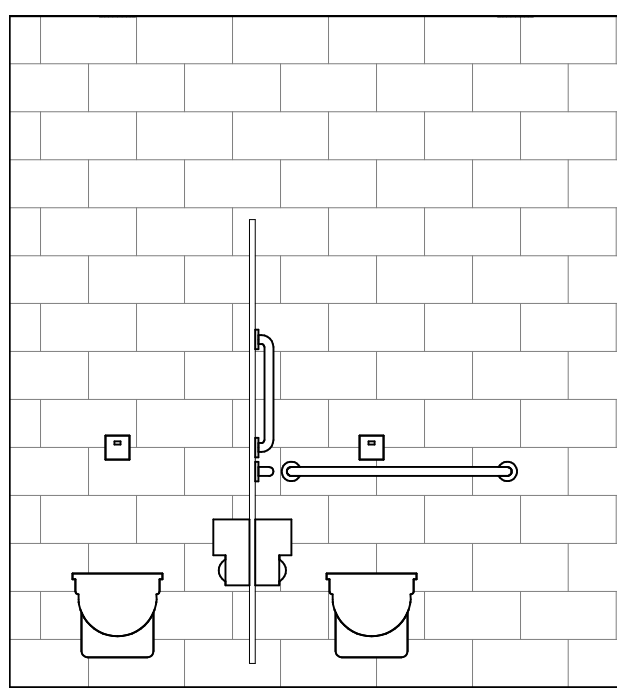
A301



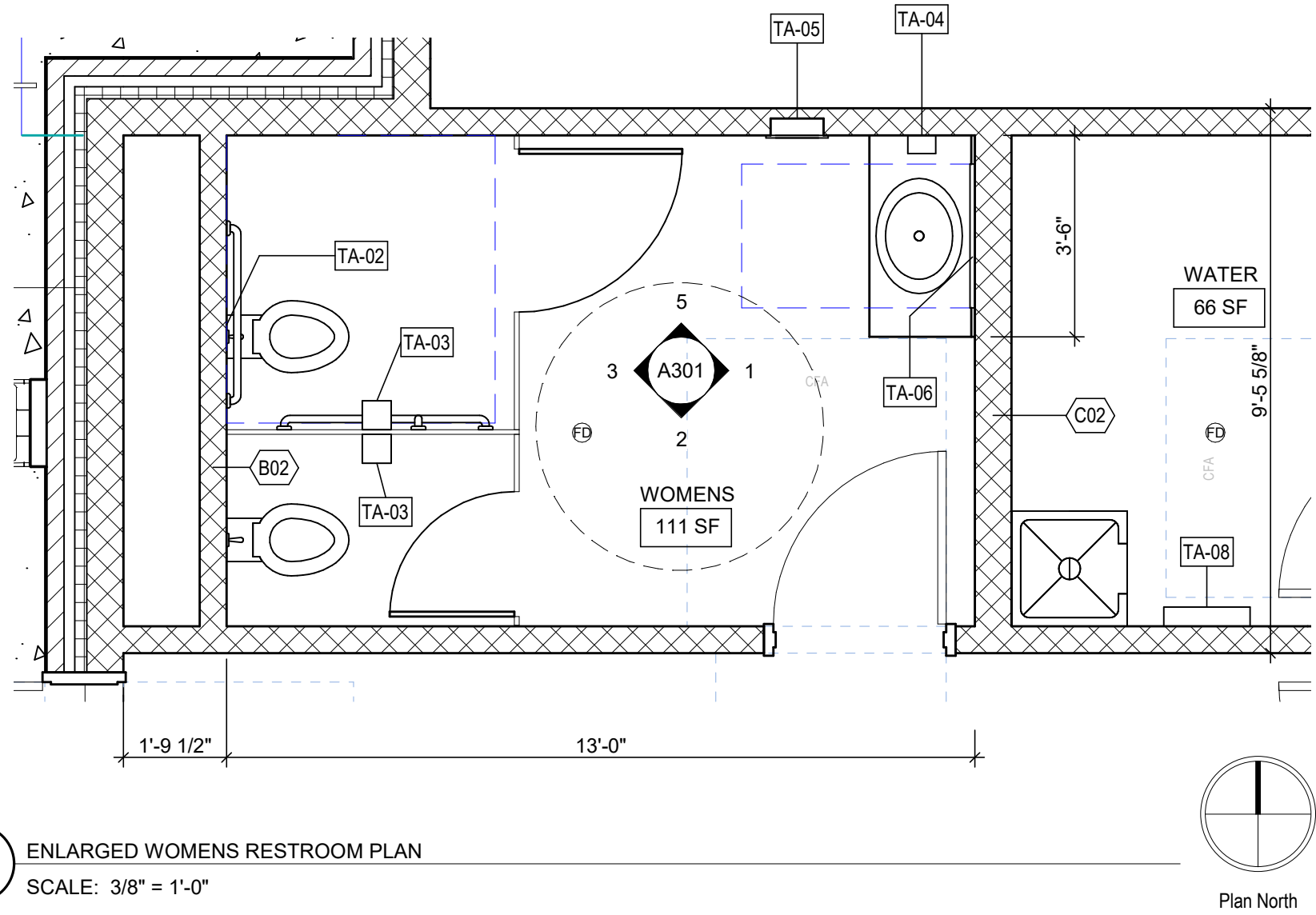
1 WOMENS - EAST ELEVATION
SCALE: 3/8" = 1'-0"



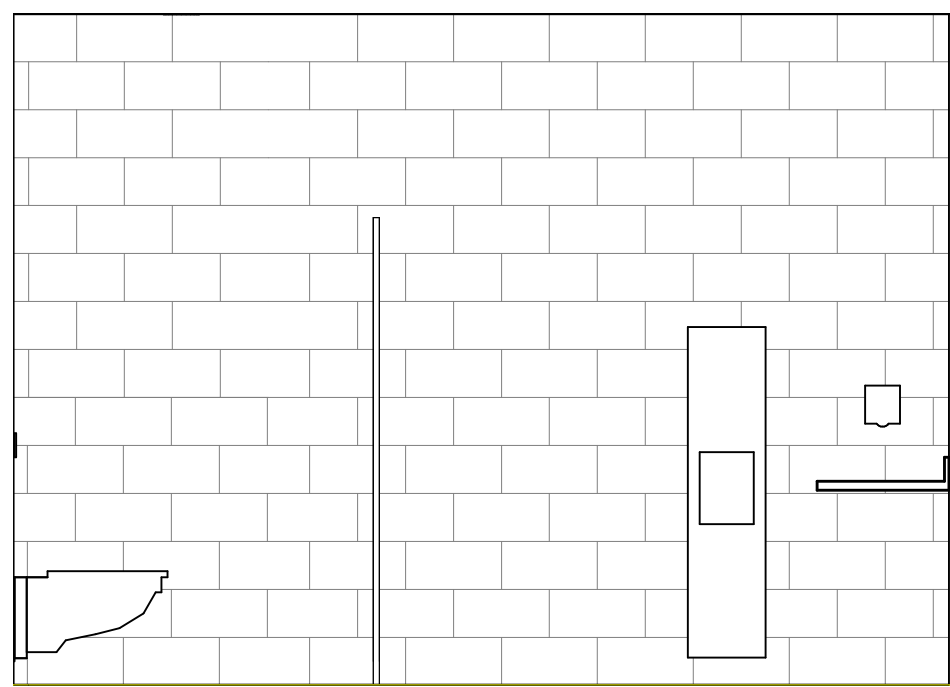
2 WOMENS - SOUTH ELEVATION
SCALE: 3/8" = 1'-0"



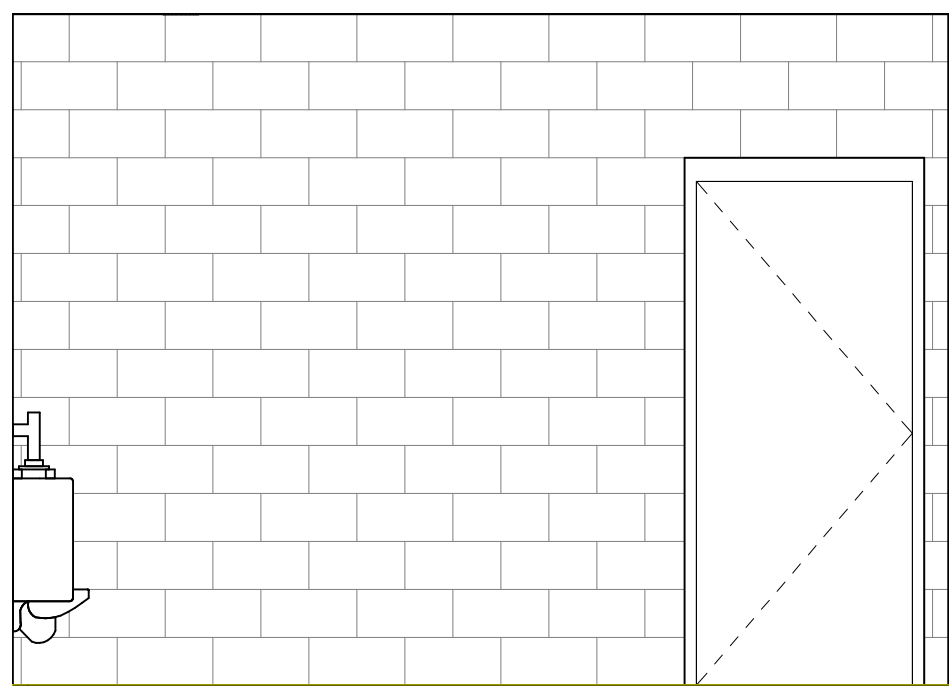
3 WOMENS - WEST ELEVATION
SCALE: 3/8" = 1'-0"



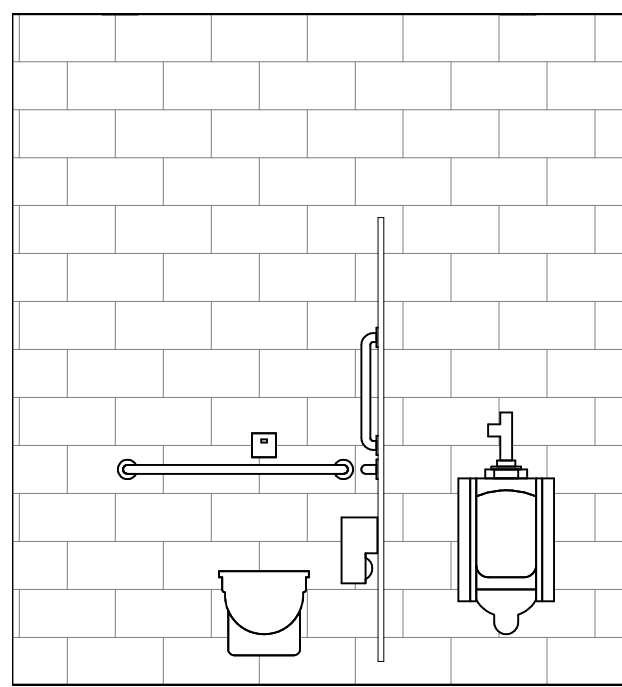
4 ENLARGED WOMENS RESTROOM PLAN
SCALE: 3/8" = 1'-0"



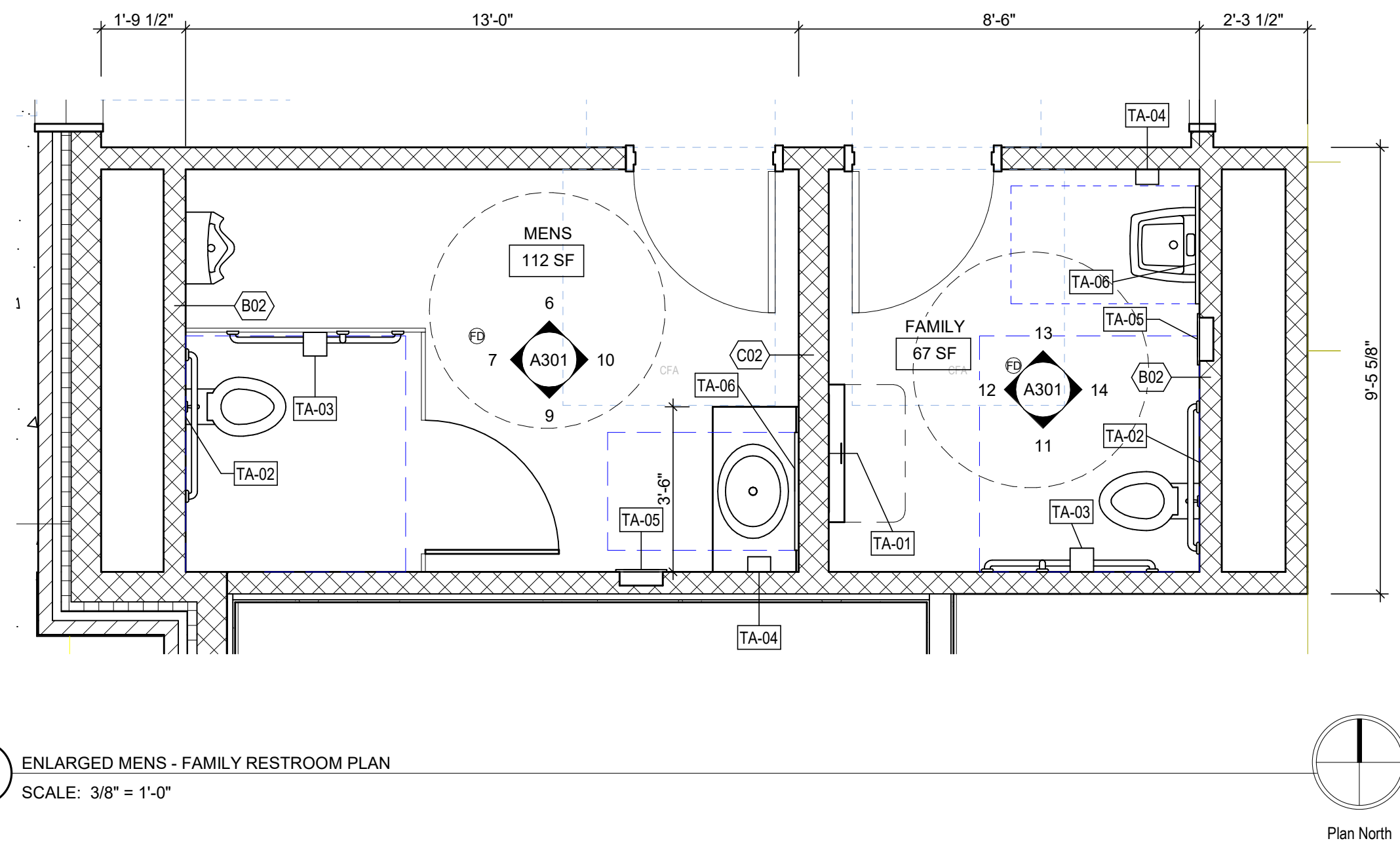
5 WOMENS - NORTH ELEVATION
SCALE: 3/8" = 1'-0"



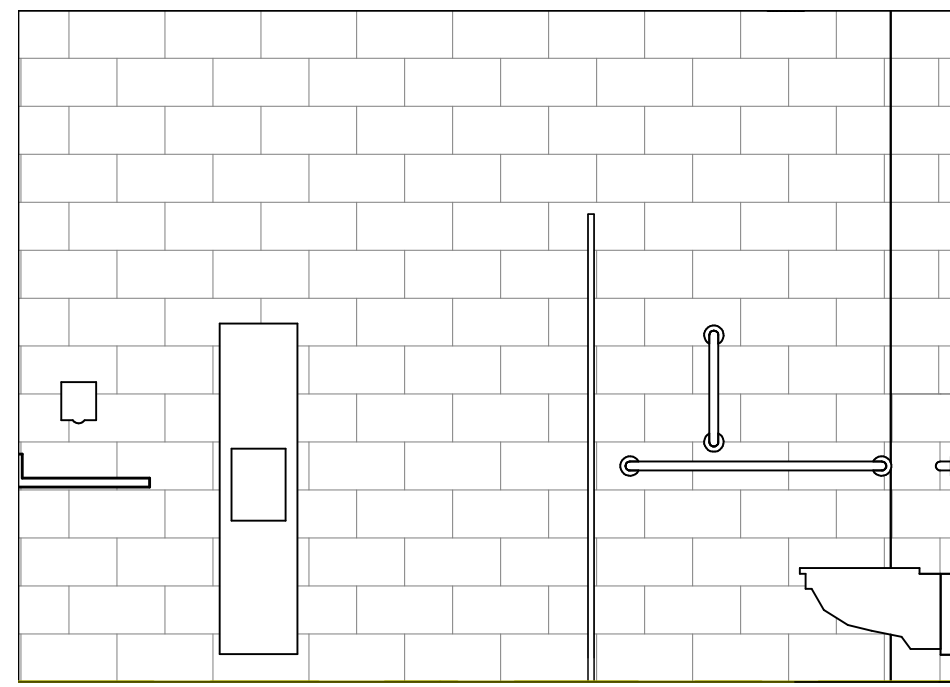
6 MENS - NOTRH ELEVATION
SCALE: 3/8" = 1'-0"



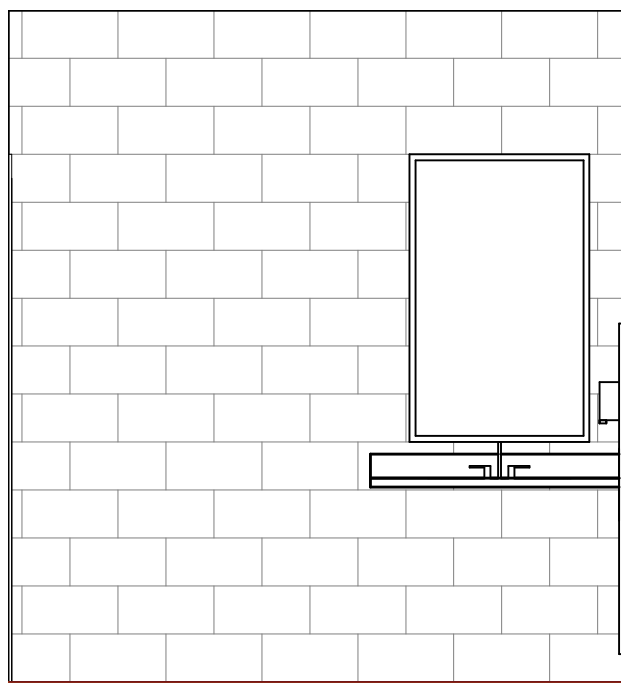
7 MENS - WEST ELEVATION
SCALE: 3/8" = 1'-0"



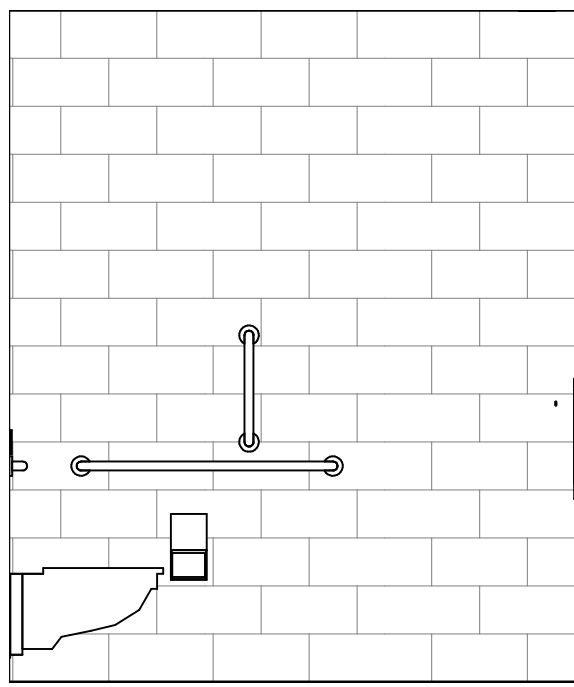
8 ENLARGED MENS - FAMILY RESTROOM PLAN
SCALE: 3/8" = 1'-0"



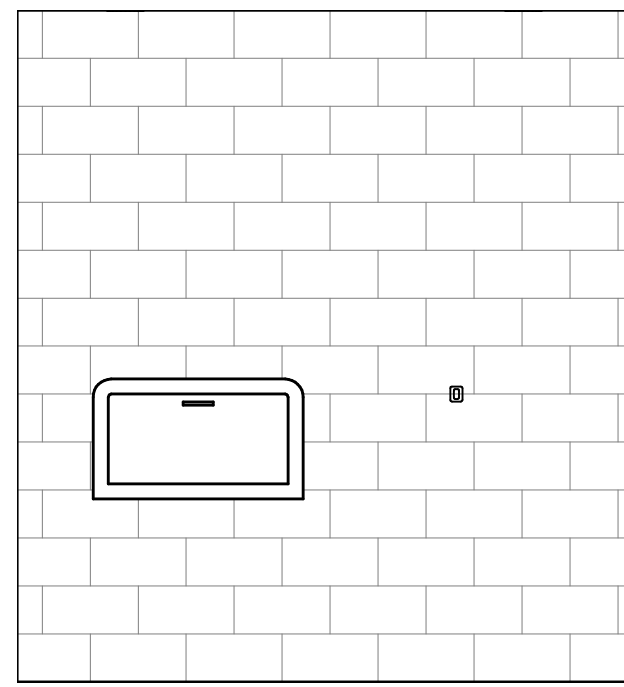
9 MENS - SOUTH ELEVATION
SCALE: 3/8" = 1'-0"



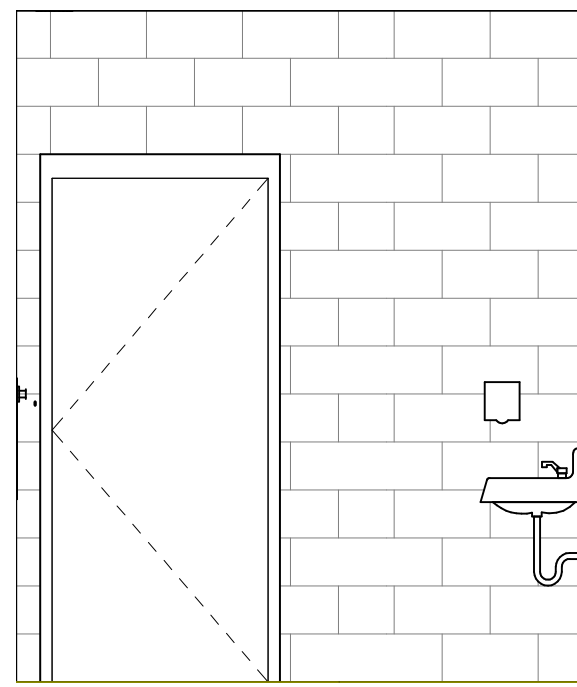
10 MENS - EAST ELEVATION
SCALE: 3/8" = 1'-0"



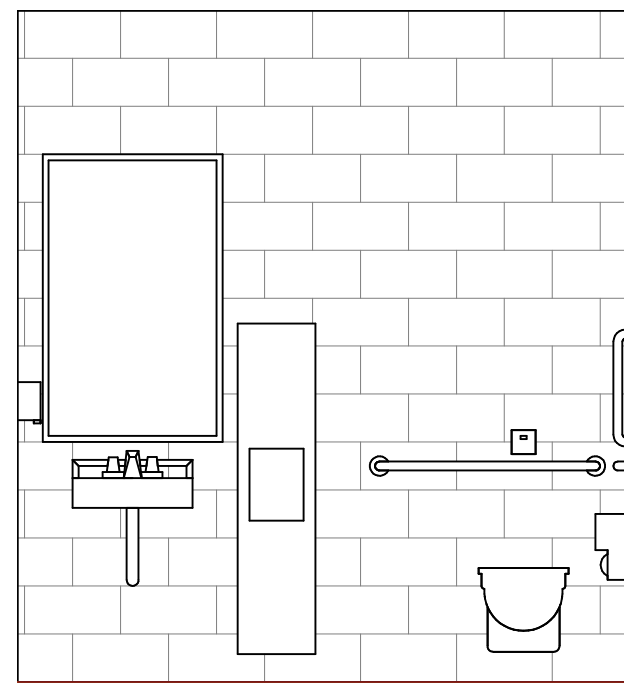
11 FAMILY - SOUTH ELEVATION
SCALE: 3/8" = 1'-0"



12 FAMILY - WEST ELEVATION
SCALE: 3/8" = 1'-0"

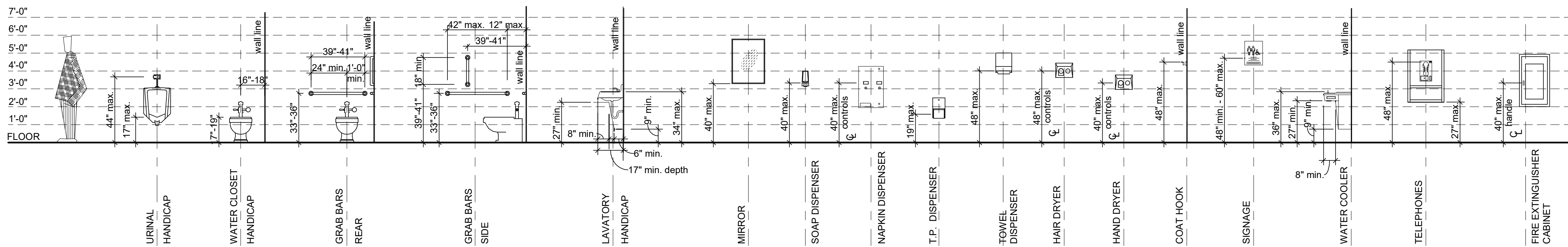


13 FAMILY - NORTH ELEVATION
SCALE: 3/8" = 1'-0"



14 FAMILY - EAST ELEVATION
SCALE: 3/8" = 1'-0"

TOILET ACCESSORY LEGEND	
TAG	Comments
TA-01	BABY CHANGING TABLE
TA-02	GRAB BARS
TA-03	TOILET TISSUE PAPER DISPENSER
TA-04	SOAP DISPENSER
TA-05	RECESSED PAPER TOWEL/ TRASH RECEPTACLE
TA-06	WALL MOUNTED FRAMED MIRROR
TA-07	WALL MOUNTED HOOK
TA-08	MOP HOOK
TA-09	
TA-10	



TYPICAL MOUNTING HEIGHTS LEGEND (ANSI)

NORTH FISH HATCHERY
HUB

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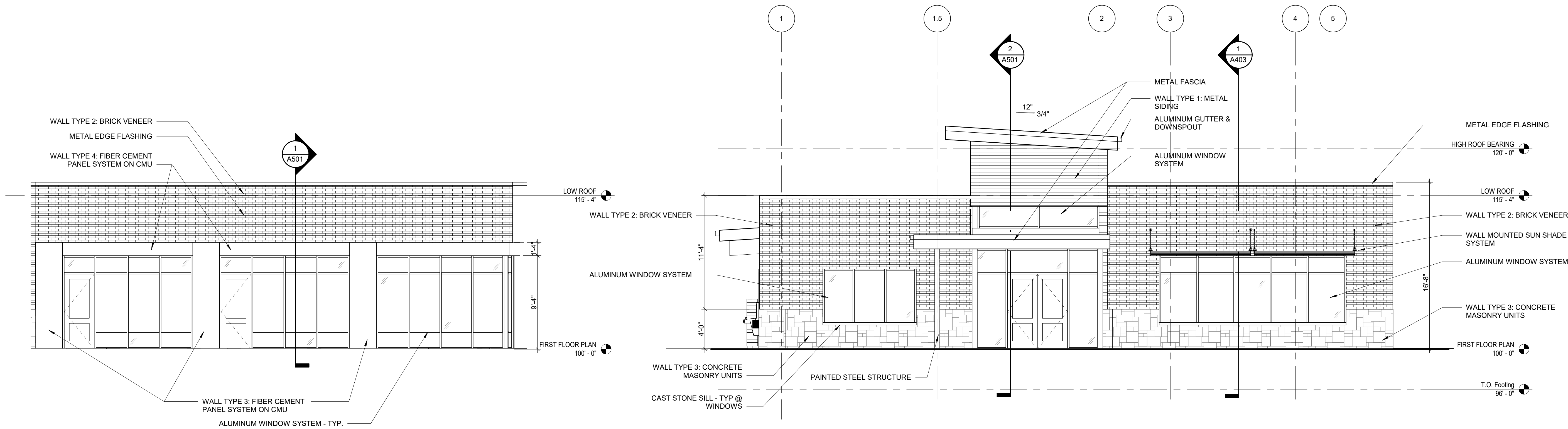
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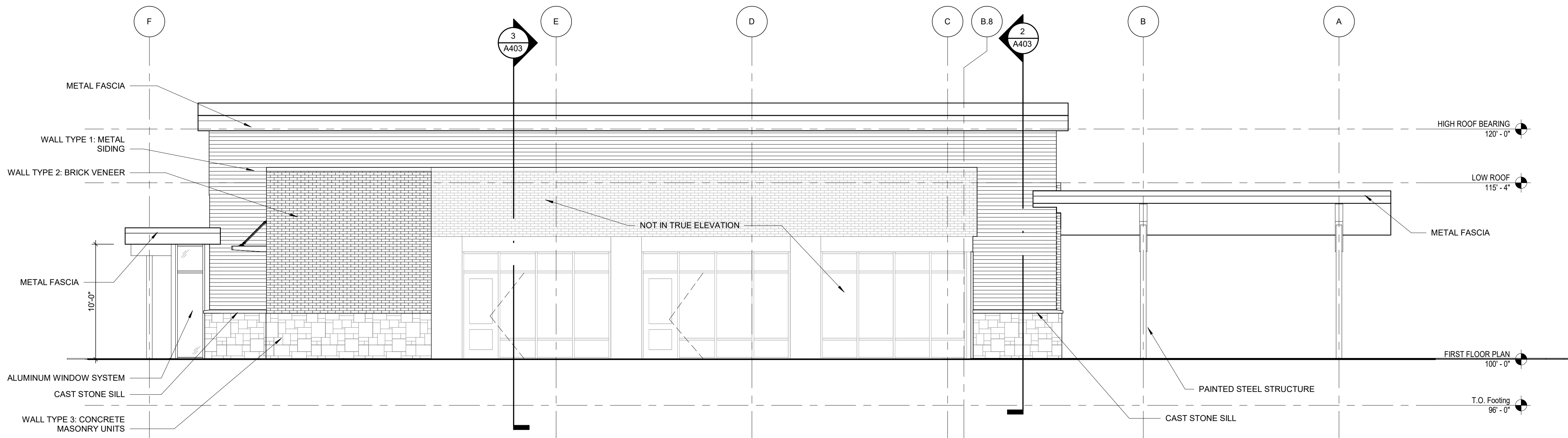
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EXTERIOR ELEVATIONS



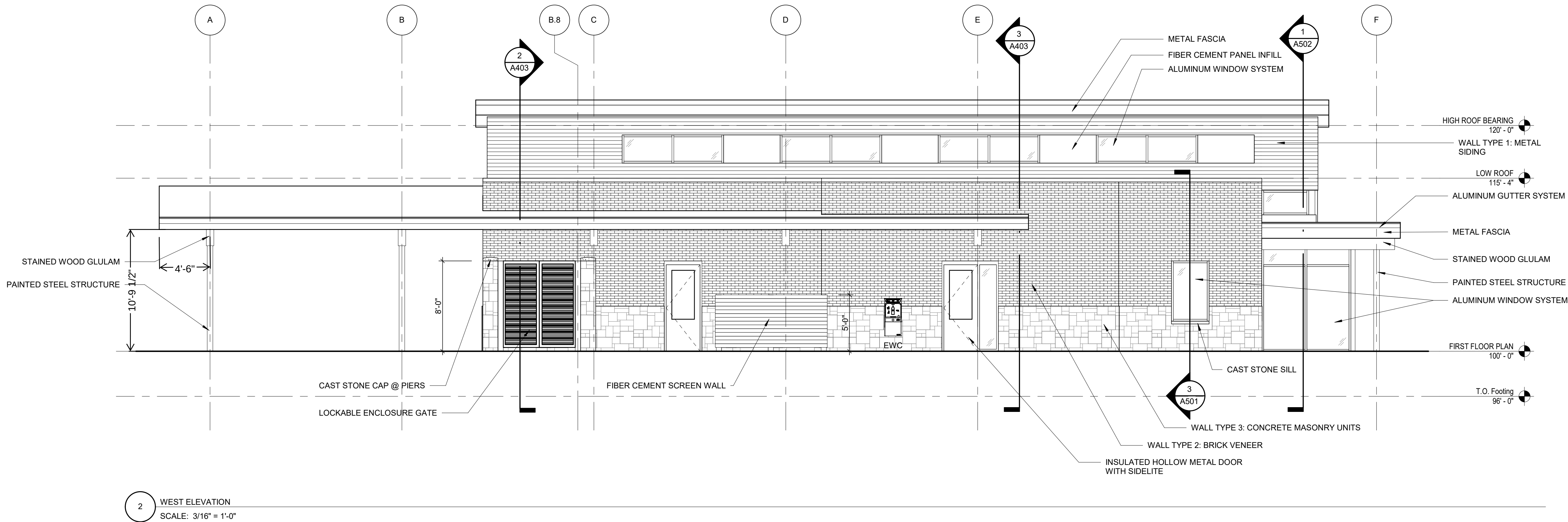
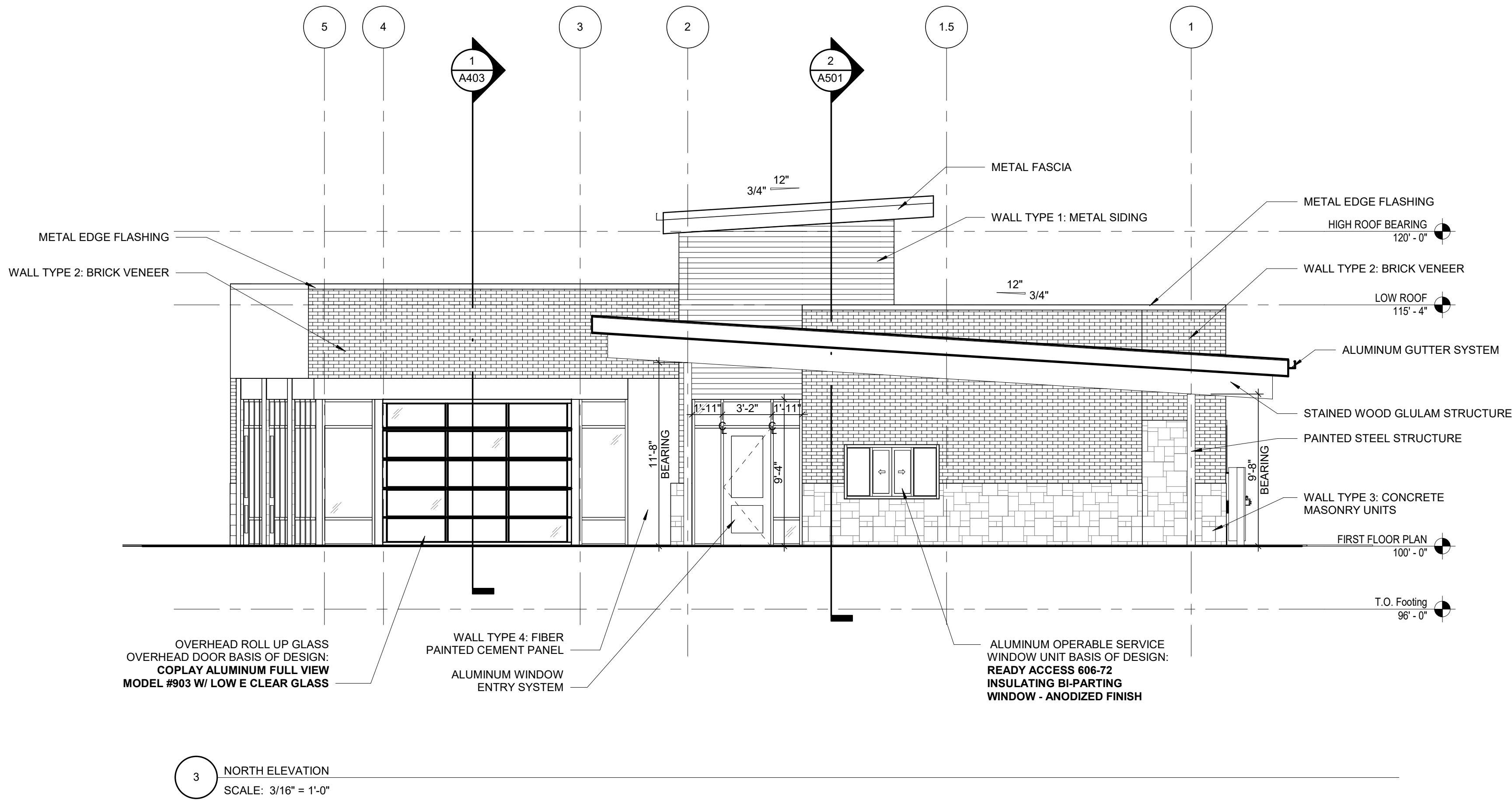
3 PARTIAL EAST ELEVATION
SCALE: 3/16" = 1'-0"

2 SOUTH ELEVATION
SCALE: 3/16" = 1'-0"



1 EAST ELEVATION
SCALE: 3/16" = 1'-0"

A401



NORTH FISH HATCHERY HUB

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EXTERIOR ELEVATIONS

A402

NORTH FISH HATCHERY
HUB

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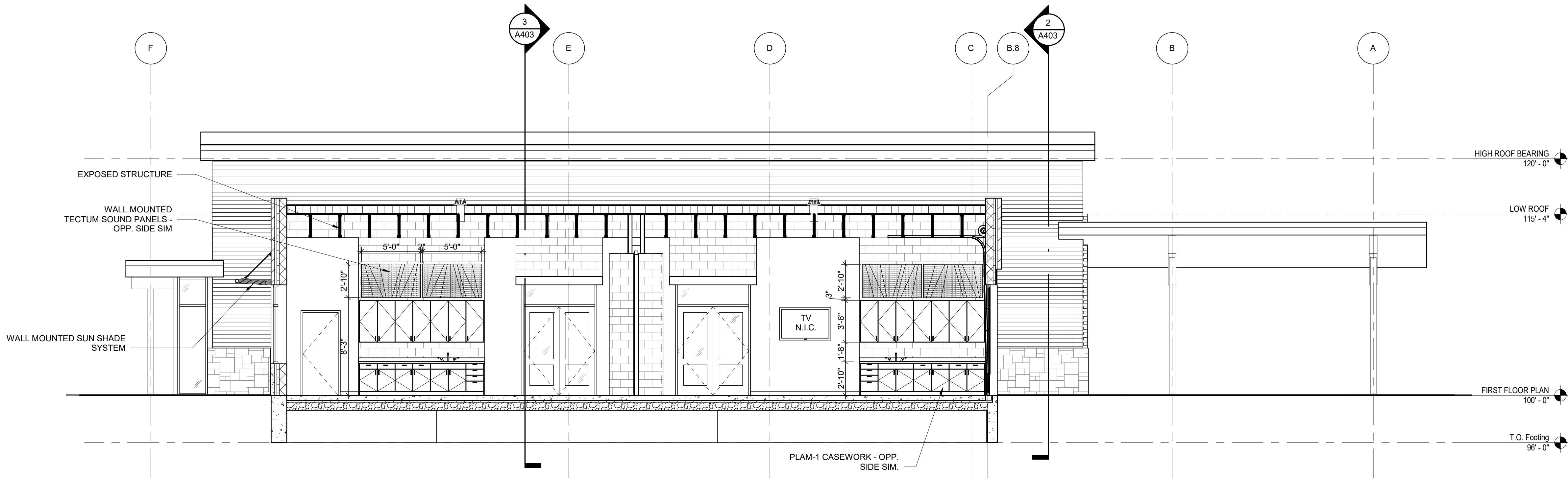
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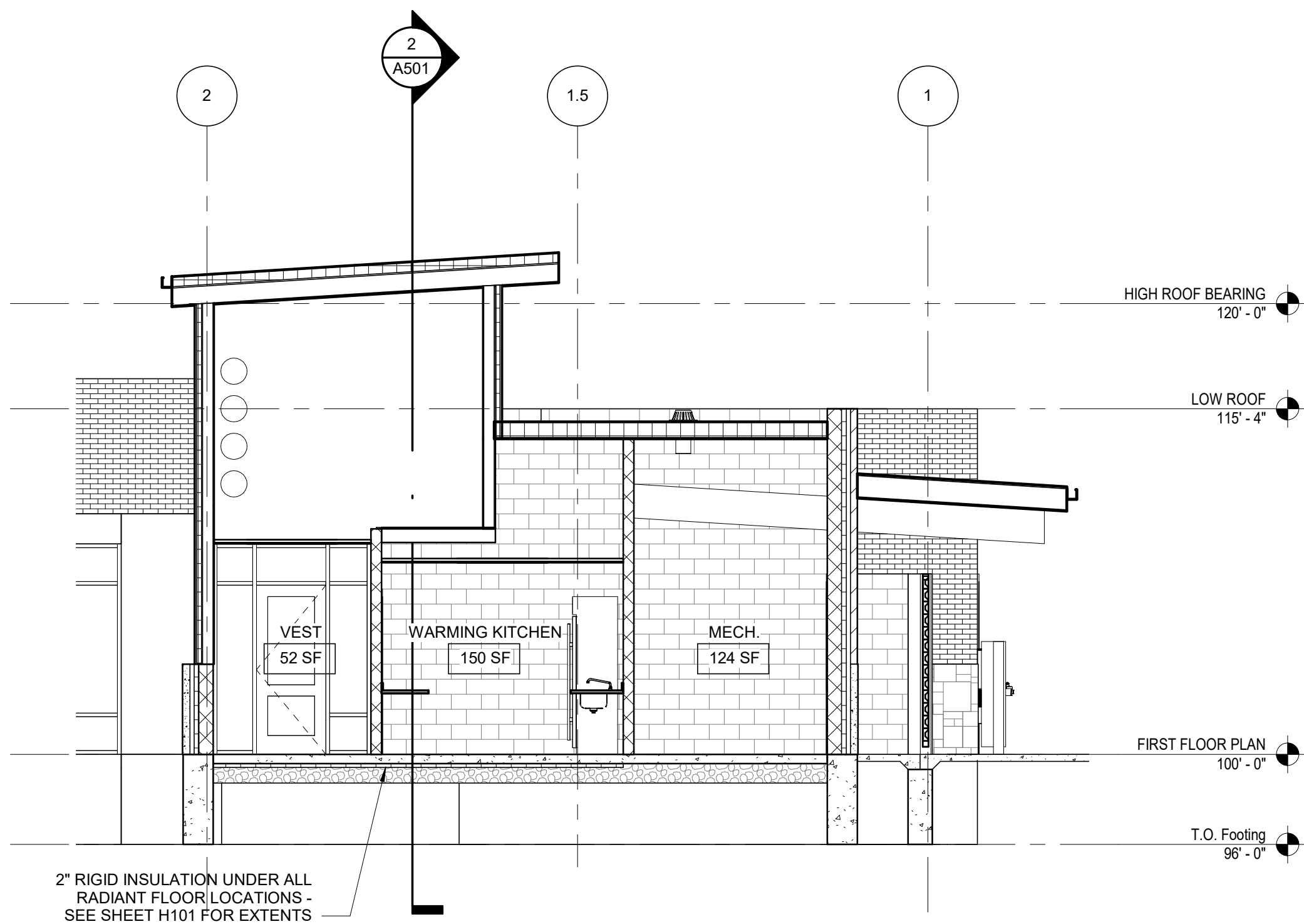
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BUILDING SECTIONS

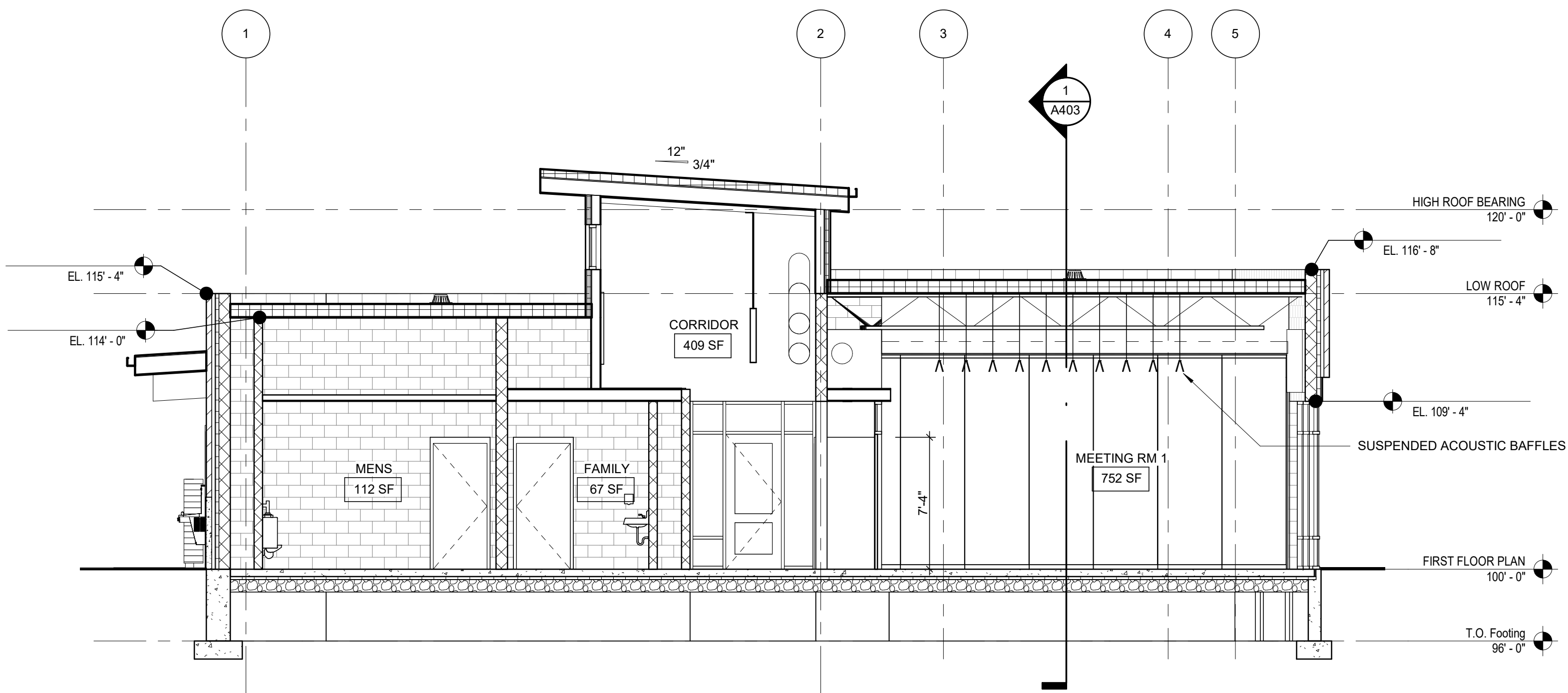
A403



1 N-S BUILDING SECTION
SCALE: 3/16" = 1'-0"



2 BUILDING SECTION @ VESTIBULE
SCALE: 3/16" = 1'-0"



3 W-E BUILDING SECTION
SCALE: 3/16" = 1'-0"

NORTH FISH HATCHERY
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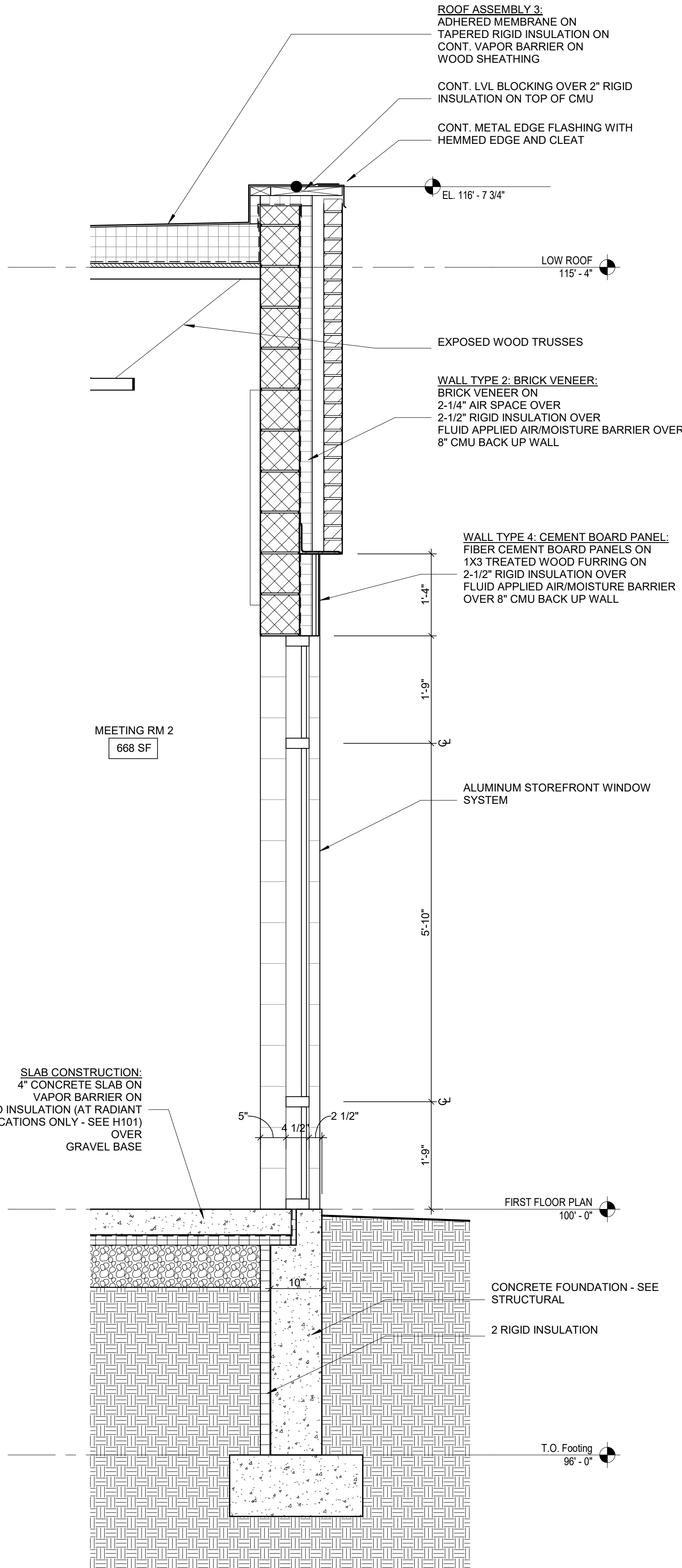
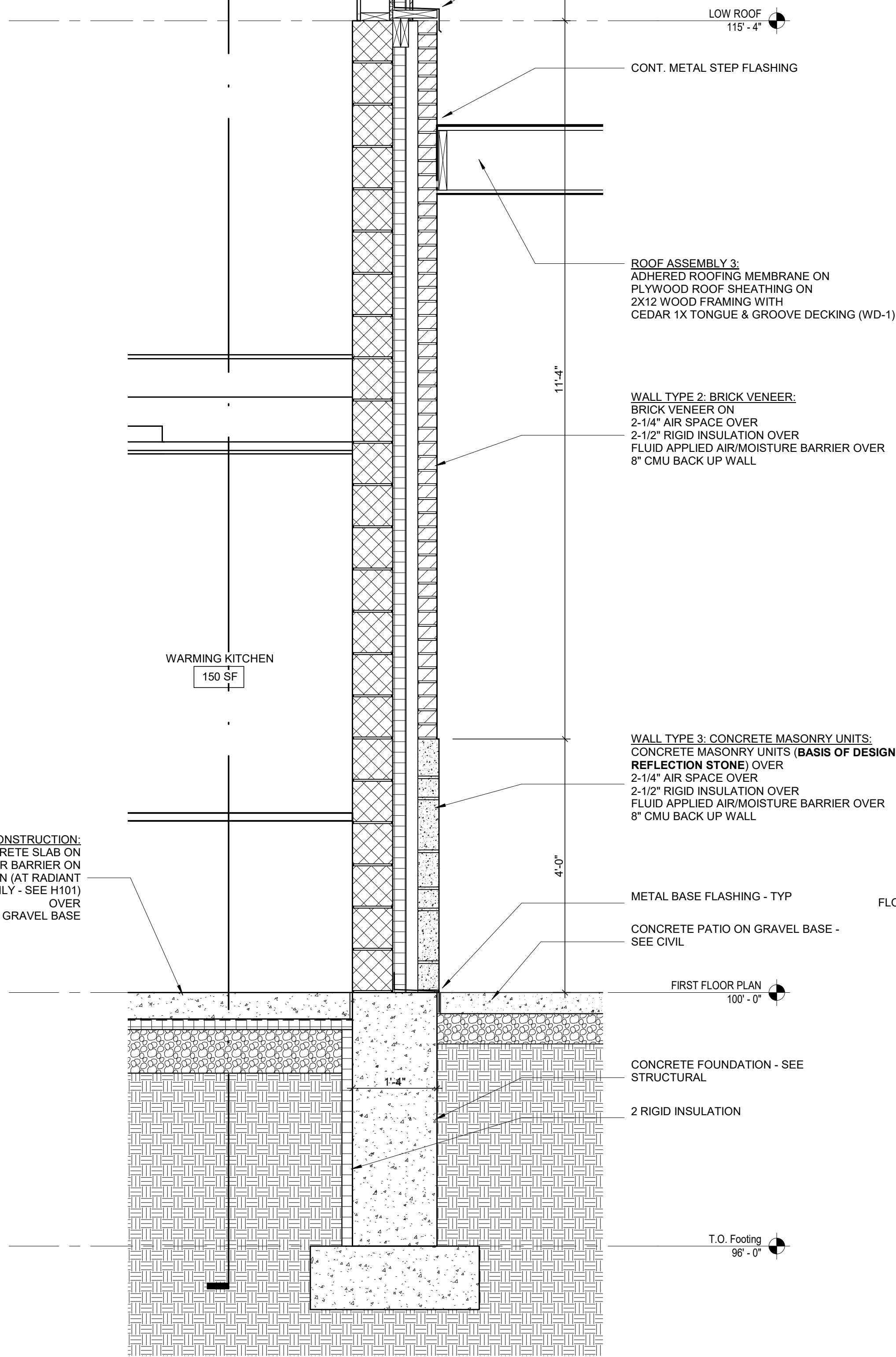
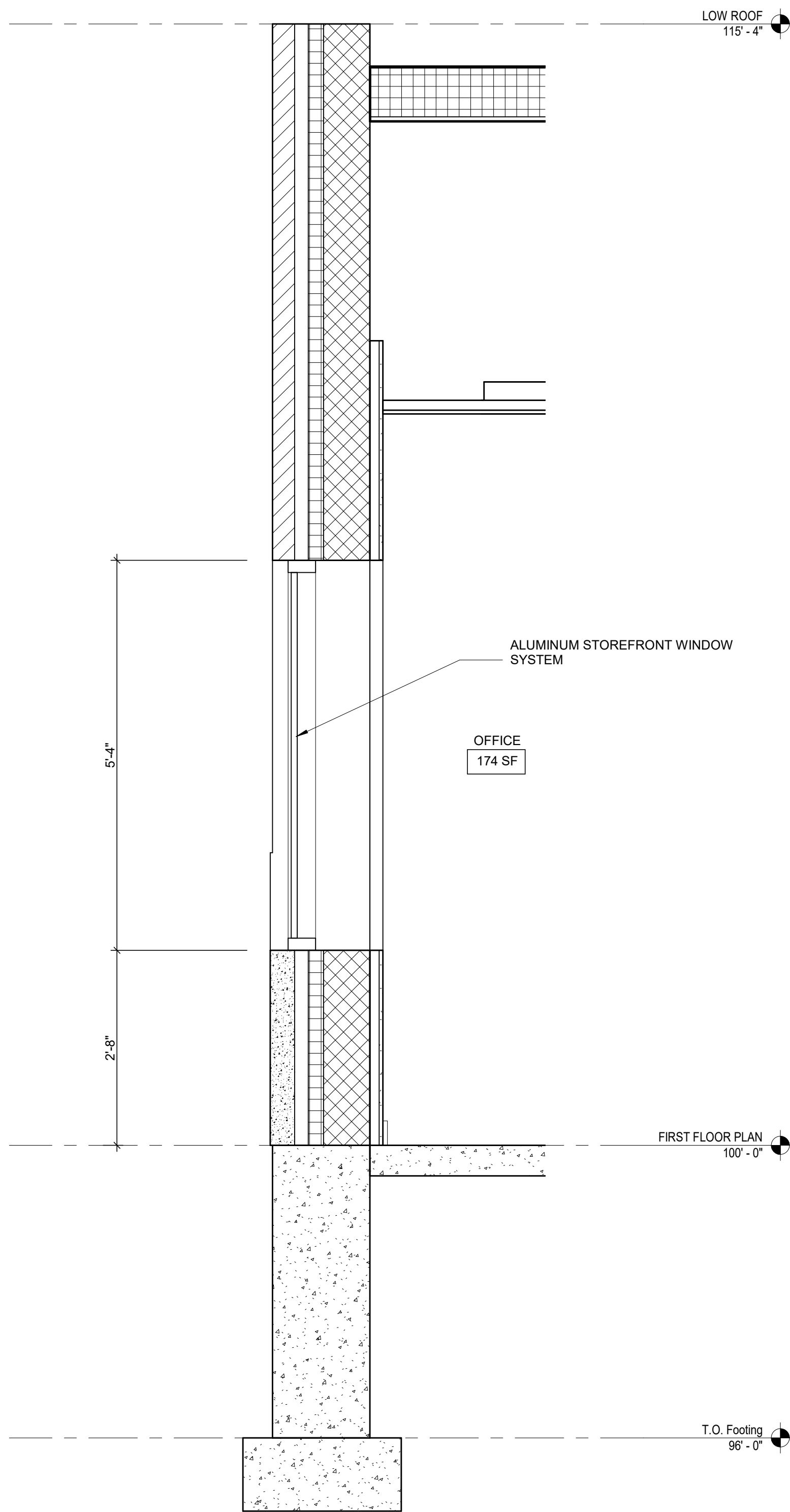
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WALL SECTIONS

A501



NORTH FISH HATCHERY
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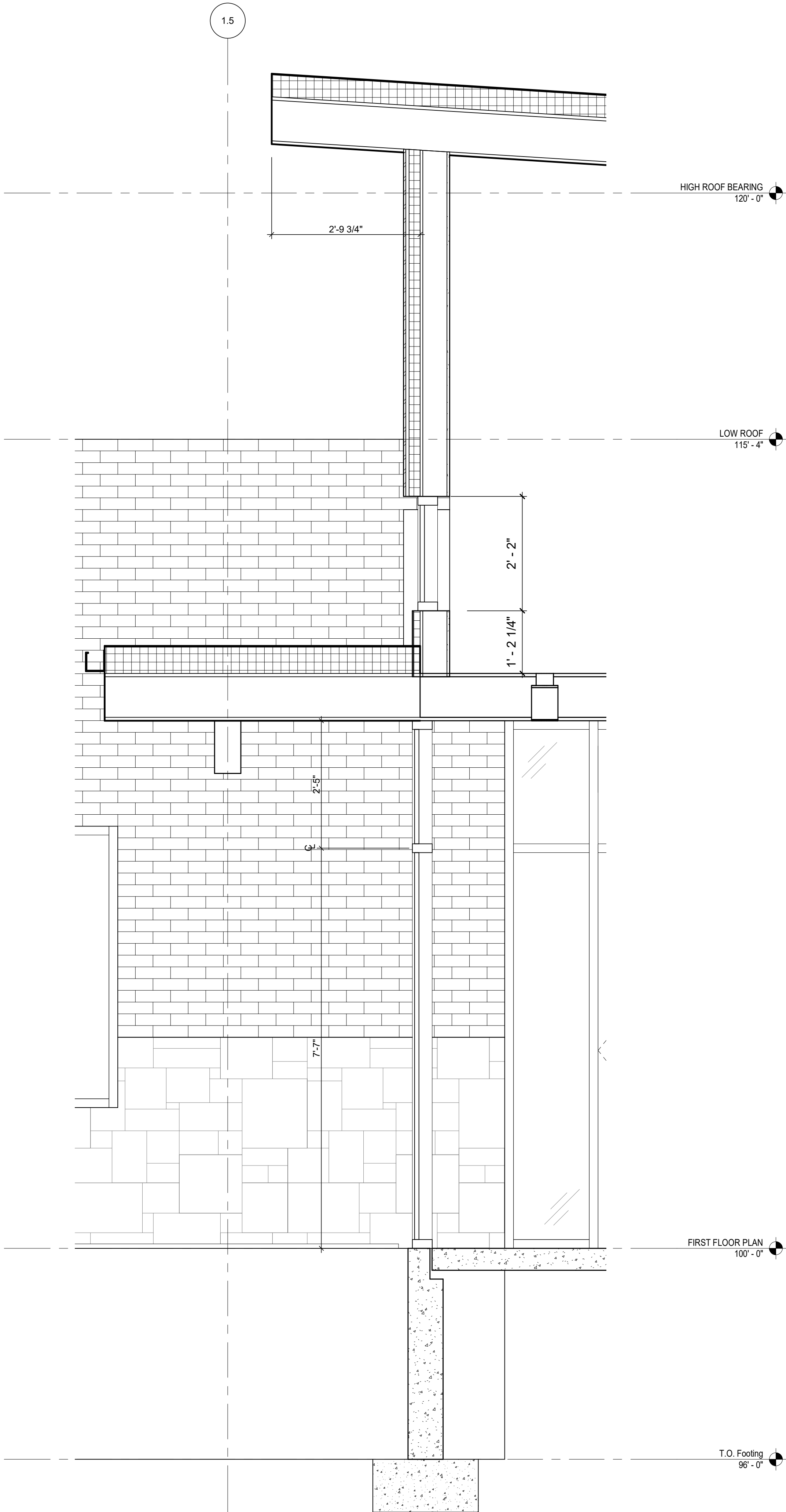
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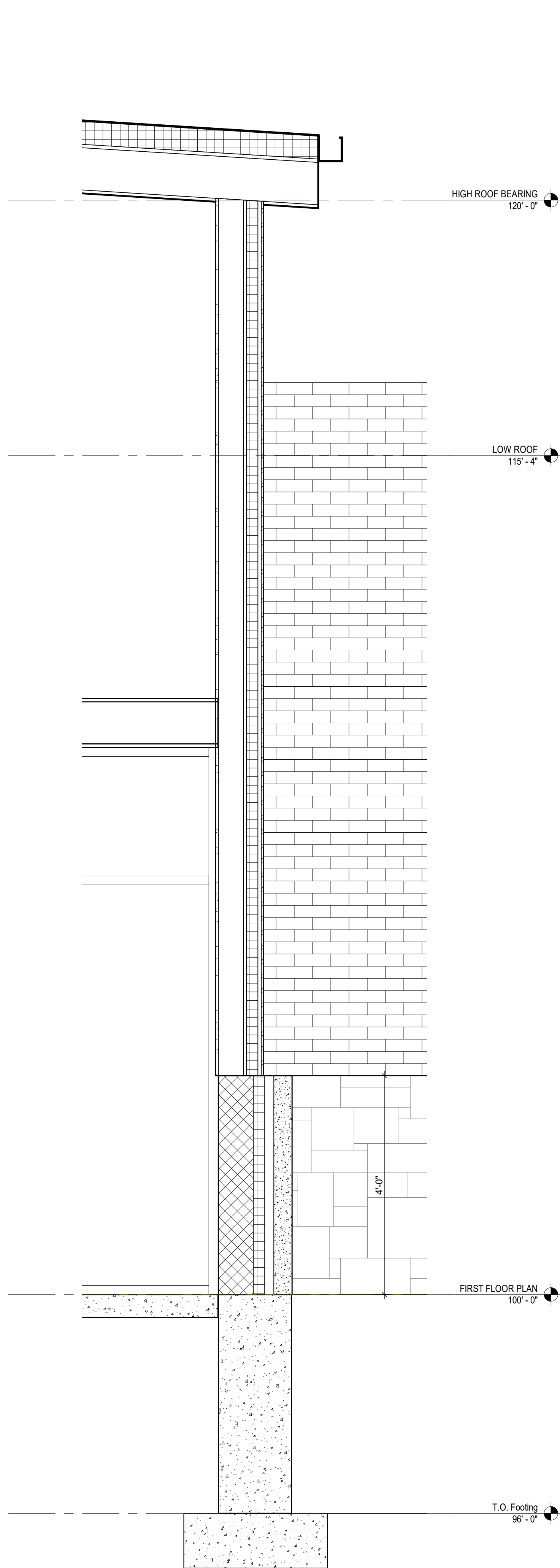
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WALL SECTIONS

A502



1 WEST WALL SECTION @ VESTIBULE
SCALE: 3/4" = 1'-0"



2 EAST WALL SECTION @ VESTIBULE
SCALE: 3/4" = 1'-0"

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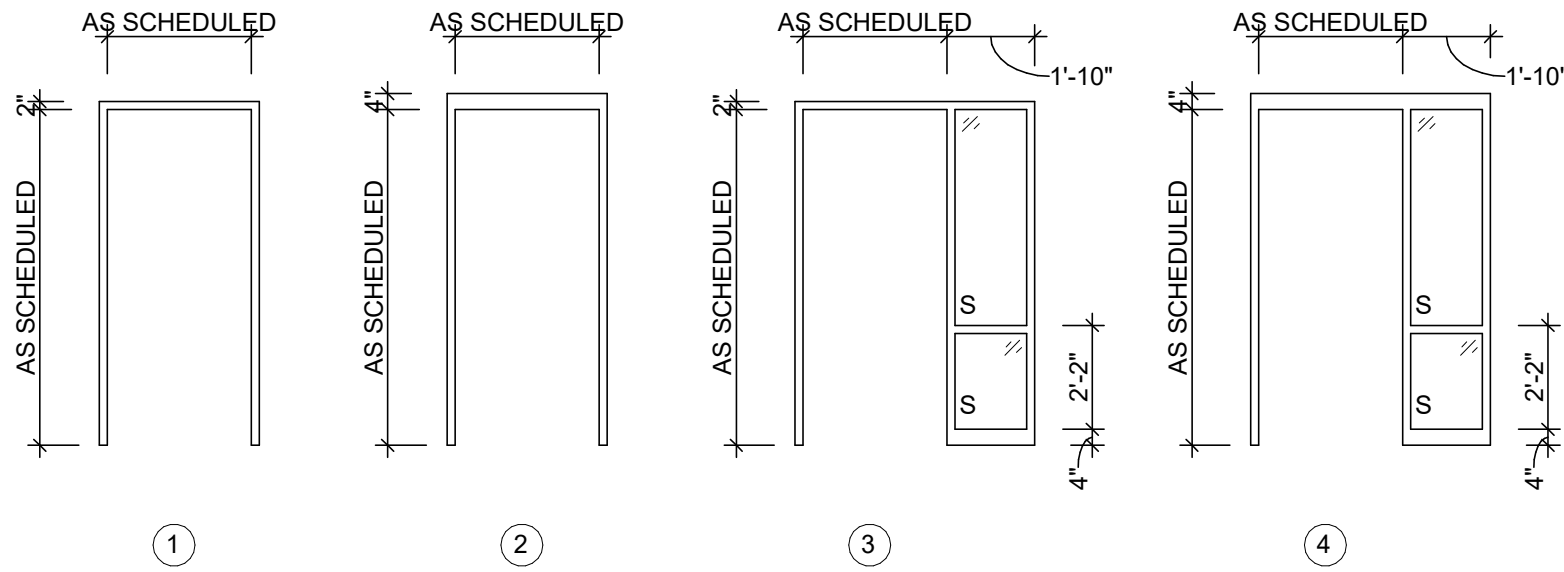
DOOR SCHEDULE,
DETAILS & WALL TYPES

A601

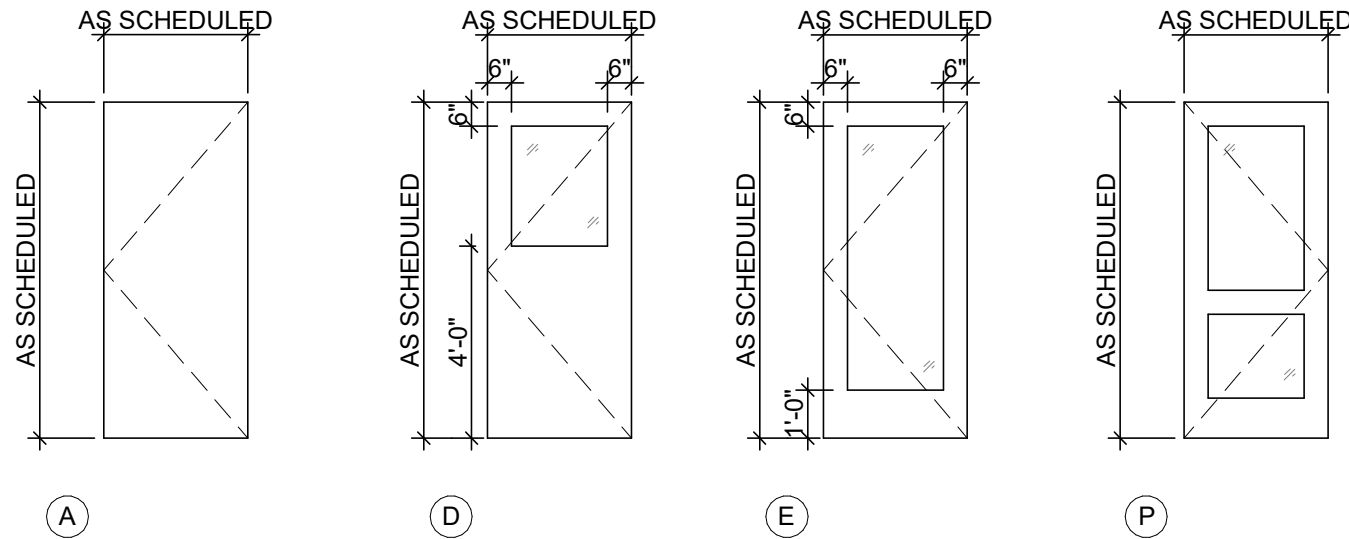
DOOR AND FRAME SCHEDULE																
NUMBER	DOOR						FRAME			DETAIL			LABEL	HARDWARE	REMARKS	NUMBER
	TYPE	MAT'L	FINISH		WIDTH	HEIGHT	TYPE	MAT'L	FINISH	THRESH	JAMB	HEAD				
100-1	P	ALUM		(2)	6' - 0"	7' - 6"	ALUM	ALUM						(none)	AUTO DOOR OPENER	100-1
100-2	P	ALUM		(2)	6' - 0"	7' - 6"	ALUM	ALUM						(none)	CARD READER - AUTO DOOR OPENER	100-2
102-1	E	WOOD			3' - 0"	7' - 0"	HM	HM						(none)	CARD READER	102-1
103-1	P	WOOD		(2)	6' - 0"	7' - 6"	HM	ALUM						(none)	CARD READER	103-1
103-2	P	ALUM			3' - 0"	7' - 6"	ALUM	ALUM						(none)	CARD READER	103-2
104-1	P	WOOD		(2)	6' - 0"	7' - 6"	HM	HM						(none)	CARD READER	104-1
104-2	P	ALUM			3' - 0"	7' - 6"	ALUM	ALUM						(none)	CARD READER	104-2
104-3					12' - 0"	9' - 4"								(none)	INSULATED OVERHEAD DOOR	104-3
106-1	P	ALUM			3' - 0"	7' - 6"	ALUM	ALUM						(none)	CARD READER	106-1
106-2	P	ALUM			3' - 1"	7' - 6"	ALUM	ALUM						(none)		106-2
107-1	A	WOOD			3' - 0"	7' - 0"	HM	HM						(none)		107-1
108-1	A	WOOD			3' - 0"	7' - 0"	HM	HM						(none)		108-1
109-1	A	WOOD			3' - 0"	7' - 0"	HM	HM						(none)		109-1
110-1	A	WOOD			3' - 0"	7' - 0"	HM	HM						(none)	CARD READER	110-1
111-1	D	METAL			3' - 0"	7' - 8"	HM	HM						(none)	CARD READER - INSULATED	111-1
111-2	D	WOOD			3' - 0"	7' - 0"	HM	HM						(none)	CARD READER	111-2
112-1	A	WOOD		(2)	2' - 0"	7' - 0"	HM	HM						(none)	CARD READER	112-1
113-1	D	METAL			3' - 0"	7' - 8"	HM	HM						(none)	CARD READER - INSULATED	113-1
113-2	A	WOOD		(2)	2' - 6"	7' - 0"	HM	HM						(none)	CARD READER	113-2
114-1	A	WOOD			3' - 0"	7' - 0"	HM	HM						(none)	CARD READER	114-1
116-1					7' - 4"	8' - 0"								(none)	LOCKABLE GATE	116-1
117-1	A	WOOD			3' - 0"	7' - 0"	HM	HM						(none)		117-1

GENERAL NOTES

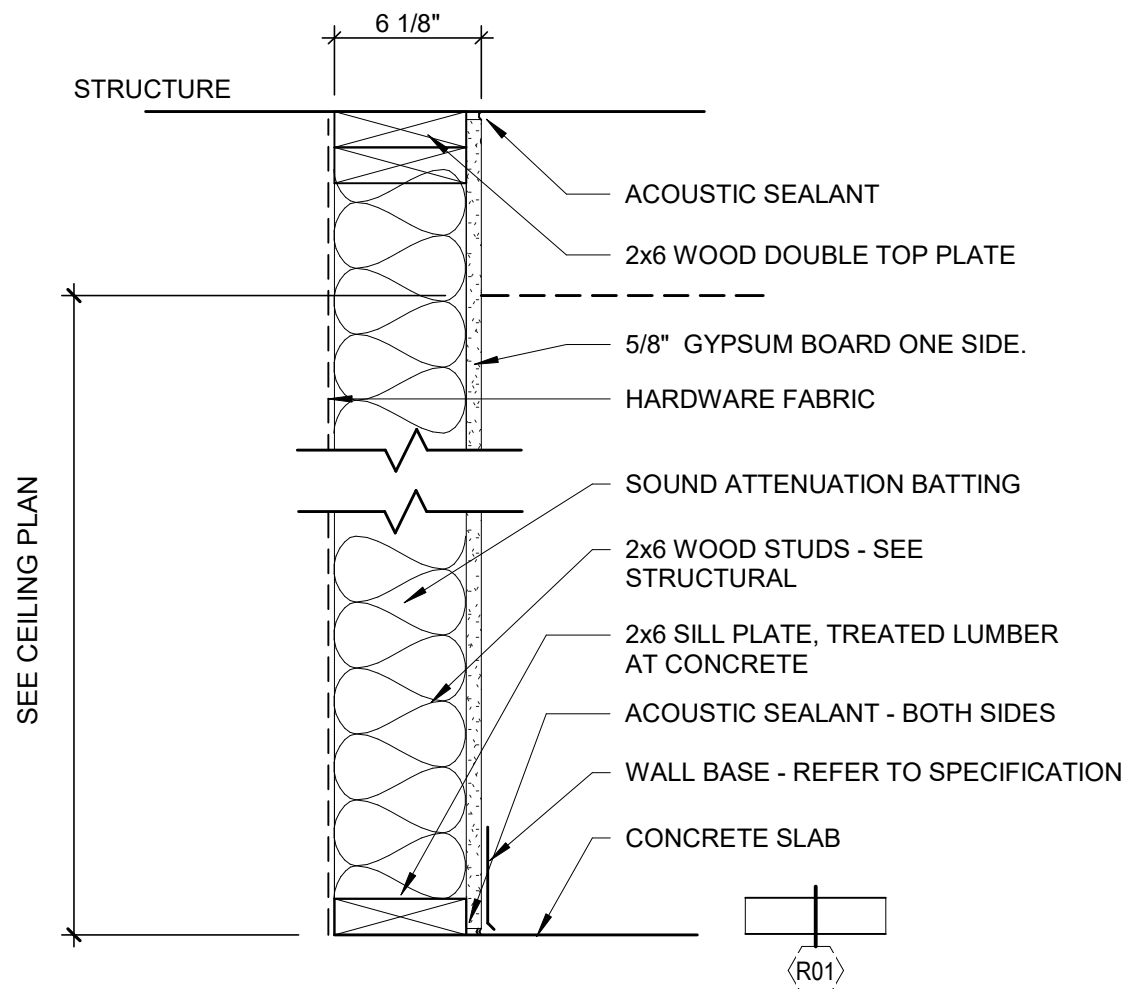
- SUBSTITUTE 5/8" CEMENT BOARD IN ALL AREAS TO RECEIVE CERAMIC TILE.
- SEE FINISH SCHEDULE FOR WALL BASE TYPE
- PROVIDE BLOCKING IN WALLS AS REQUIRED FOR ALL WALL MOUNTED EQUIPMENT & ACCESSORIES
- HARDWARE FABRIC:** GALVANIZED STEEL MESH WITH 1/4" TO 1" SQUARE OPENINGS TO MAINTAIN BATTING IN PLACE.
- FRAME:** REFER TO DOOR DETAILS AND SCHEDULE
- DIMENSIONS:** DIMENSIONS ARE NOMINAL - MANUFACTURER PROVIDING THE DOORS TO DETERMINE THE ROUGH OPENINGS EXCEPT THE OPENINGS IN CONCRETE WALLS THAT HAVE BEEN ALREADY SPECIFIED.
- HARDWARE:** FOR HARDWARE GROUP SPECIFICATIONS REFER TO THE PROJECT MANUAL UNDER HARDWARE SPECS.
- ELECTRICAL DEVICES** SUCH AS MAG. LOCKS, CARD READERS AND ALARM SYSTEMS BEING PART OF THE DOOR FUNCTION ARE INCLUDED AS PART OF THE ELECTRICAL PLANS AND THE HARDWARE GROUPS.
- GLAZING:** GLAZING AS NOTED ON DOOR TYPE ELEVATIONS. S = SAFETY GLASS
- FINISH:** SEE DOOR SCHEDULE FOR DOOR AND FRAME FINISH



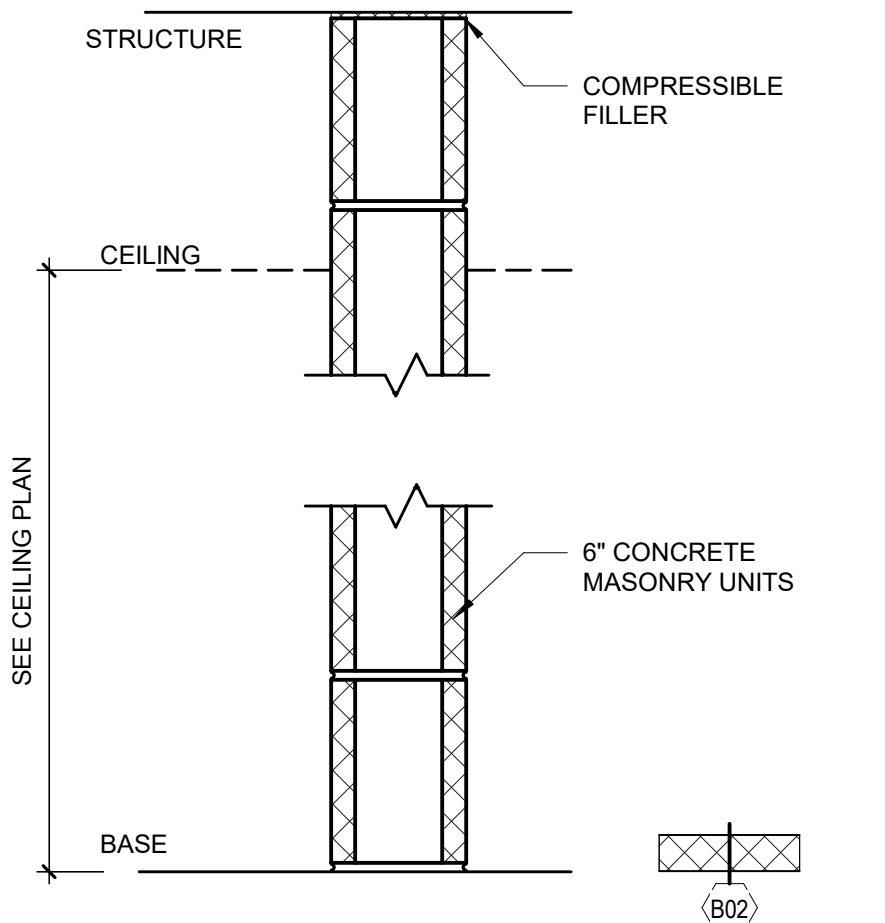
FRAME TYPES



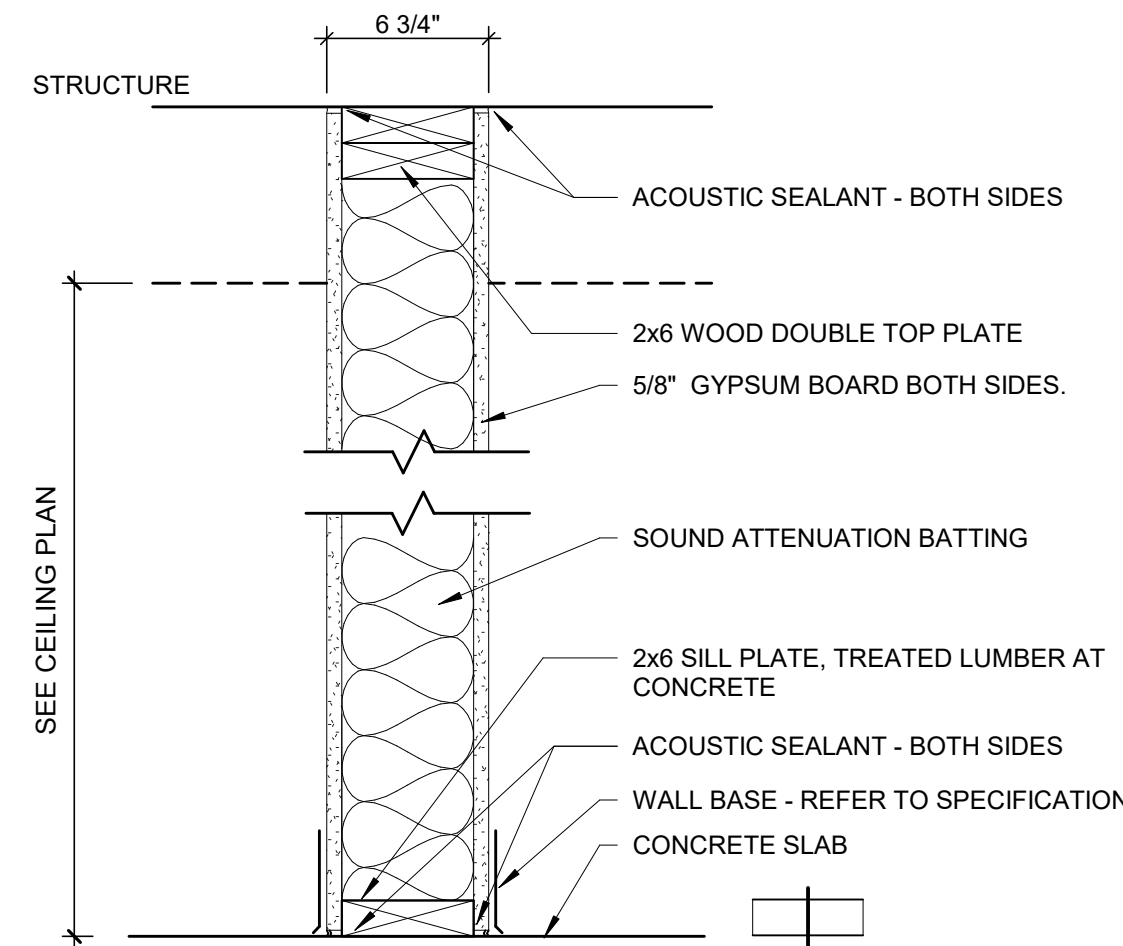
DOOR TYPES



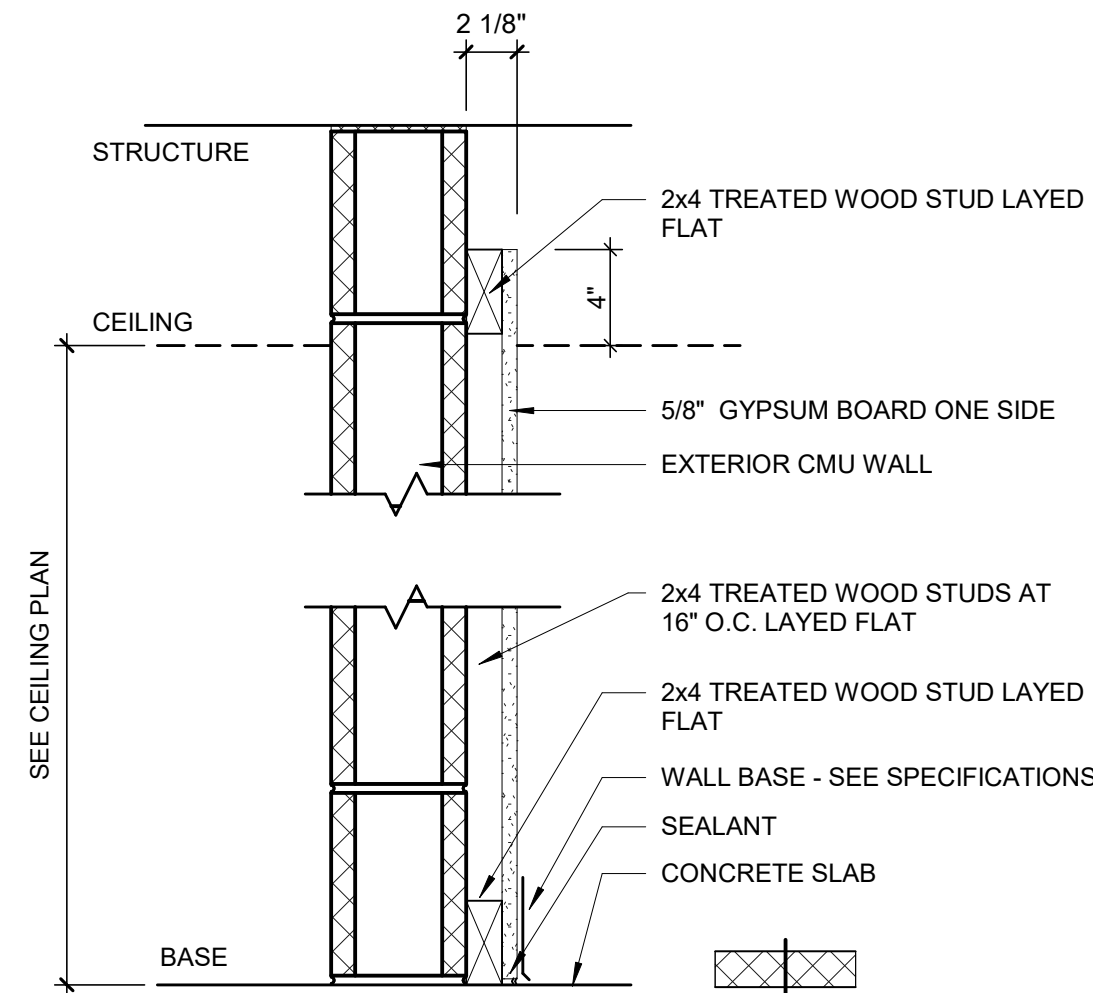
WALL TYPE R01



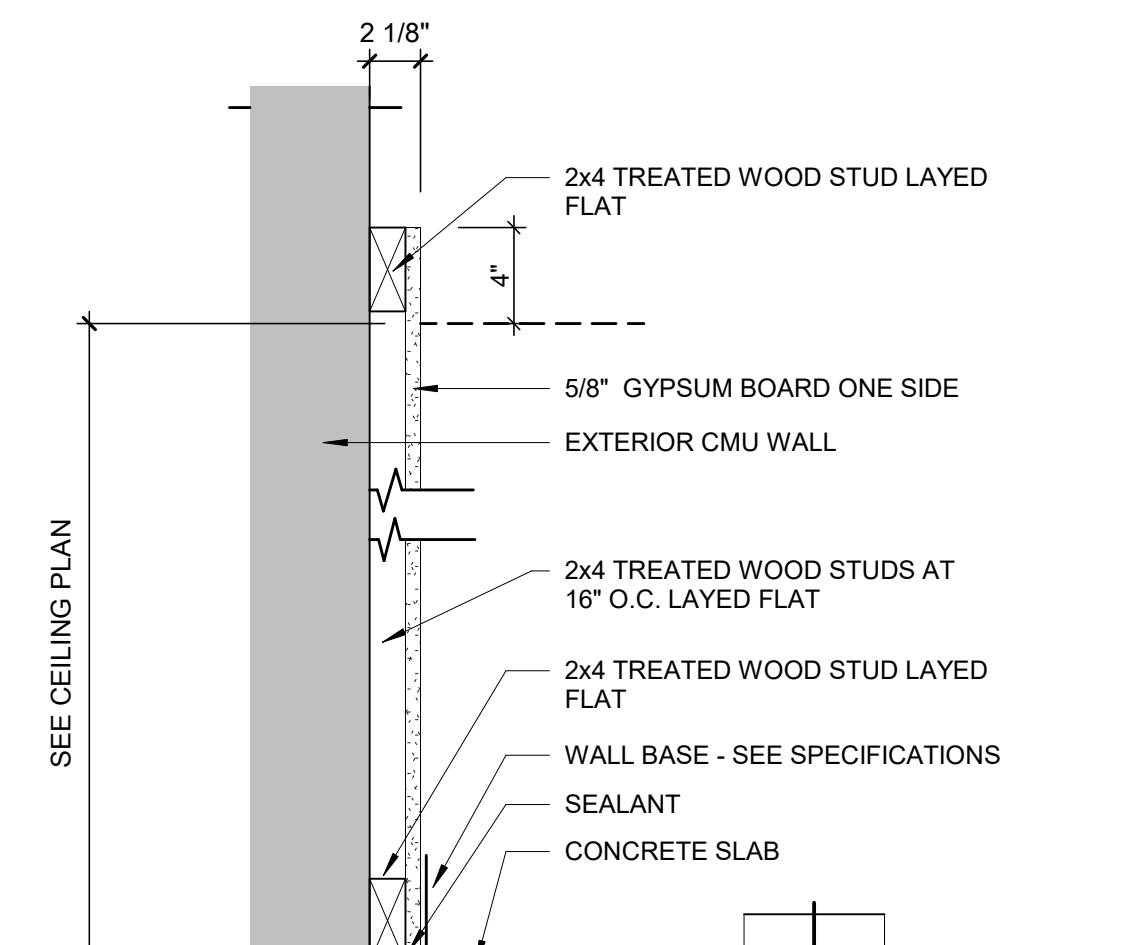
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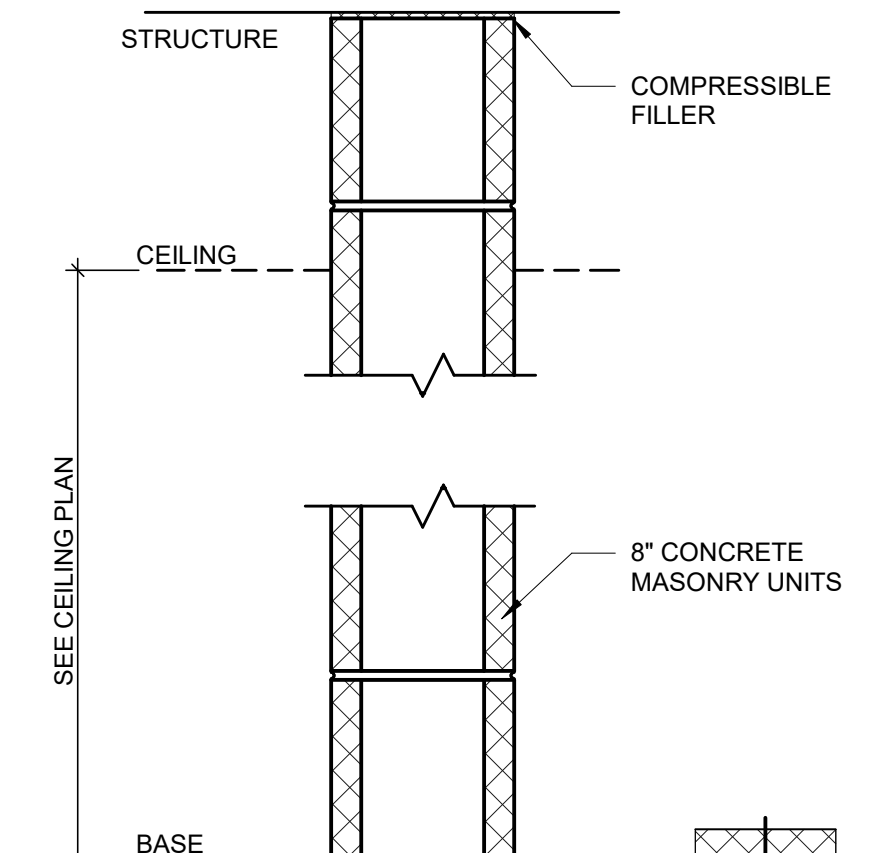
WALL TYPE R02



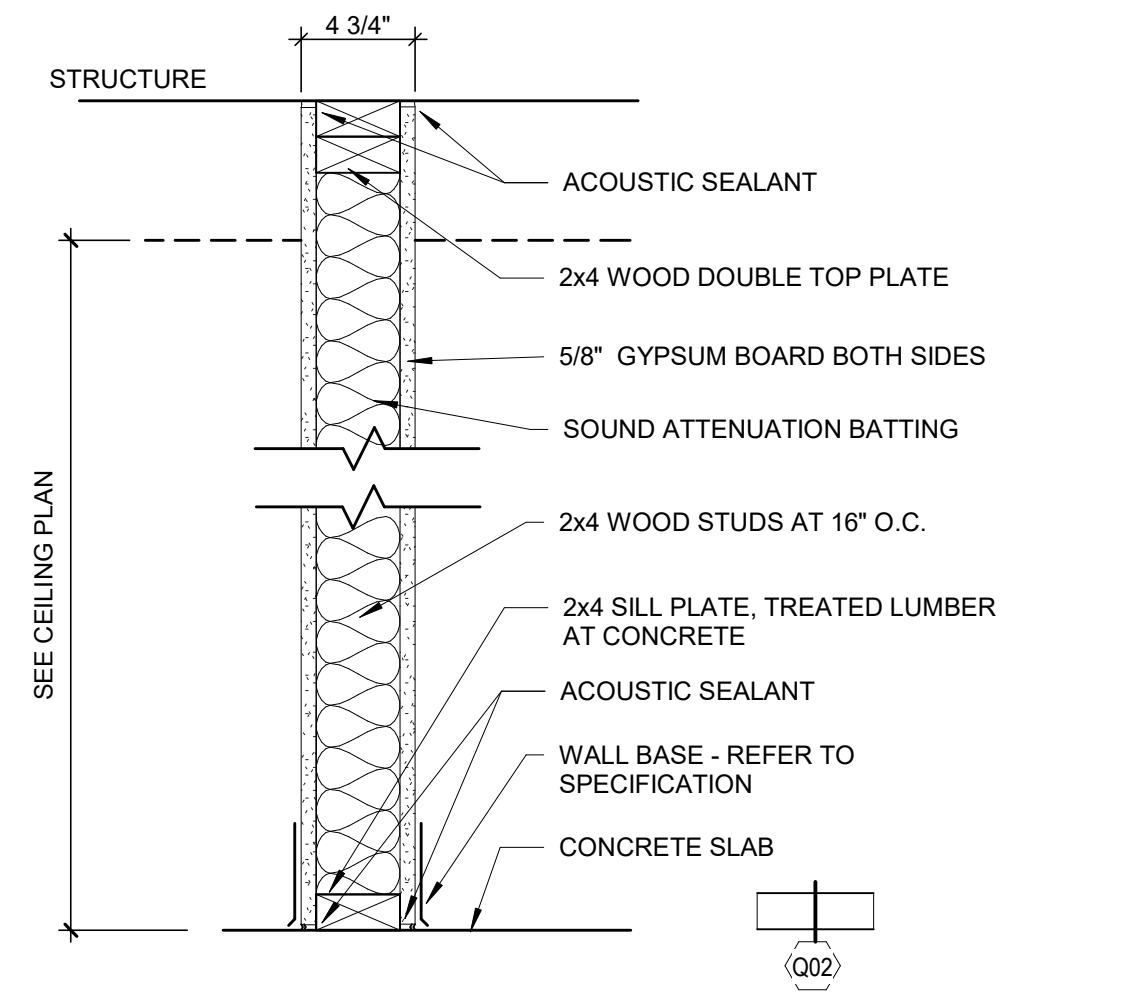
WALL TYPE B03



WALL TYPE Q01



WALL TYPE C02



WALL TYPE Q02

NORTH FISH HATCHERY
HUB

Traceway Dr., Fitchburg

City of Fitchburg
5520 Lacy Rd.
Fitchburg, Wisconsin 53711-5318

PROJECT NUMBER 203283.00

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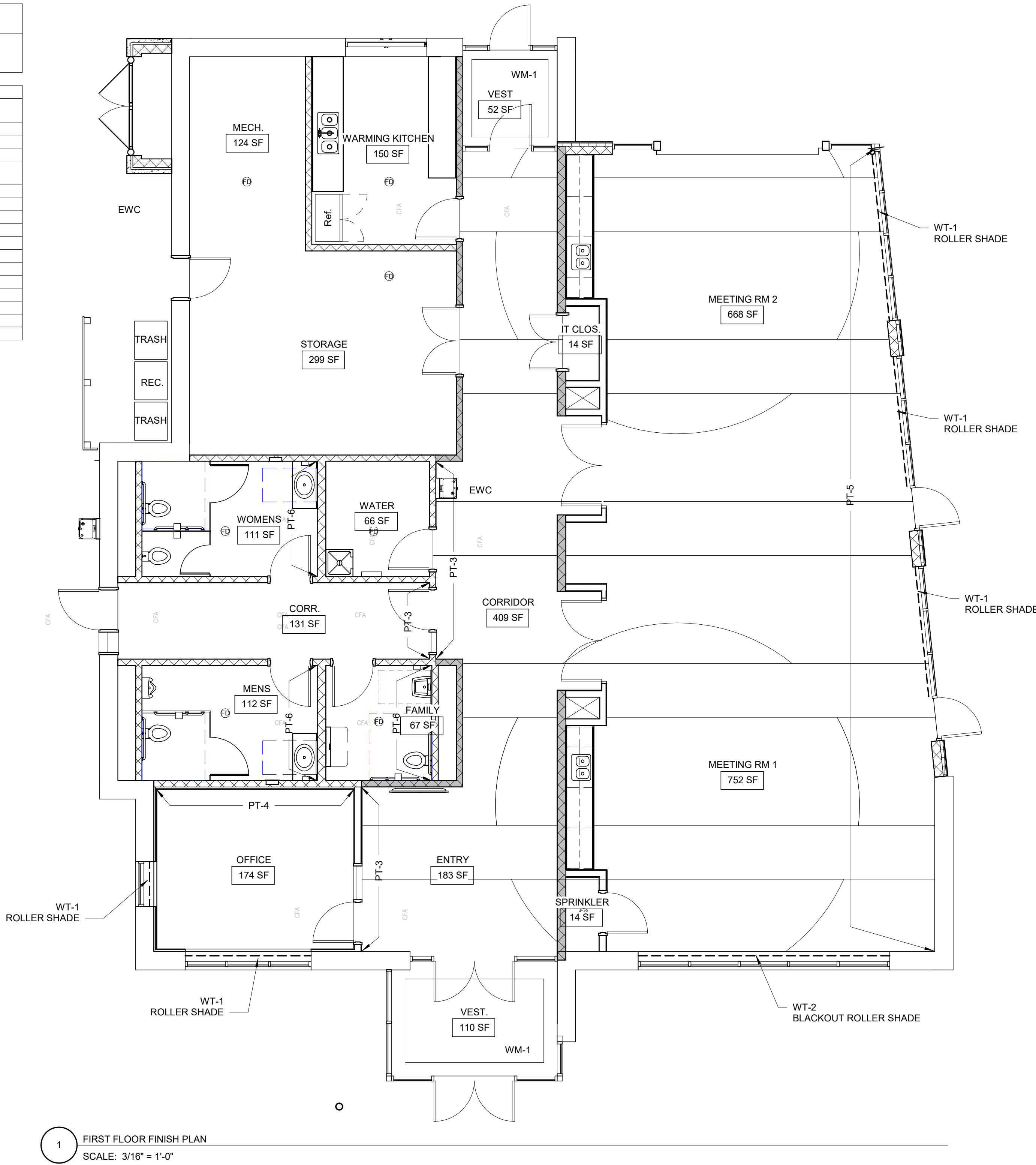
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FIRST FLOOR FINISH
PLAN, SCHEDULE, & KEY

FINISH SCHEDULE									
RM #	ROOM NAME	FLOORS	BASE	WALL FINISH				CEILING	REMARKS
		FINISH	FINISH	NORTH FINISH	EAST FINISH	SOUTH FINISH	WEST FINISH	FINISH	
100	VEST.	WM-1/CONC-1	RB-1		PT-1			WD-1	
101	ENTRY	CONC-1	RB-1	BURNISHED CMU	BURNISHED CMU/PT-1	PT-1	PT-1/PT-3	WD-1	
102	OFFICE	CPT-1	RB-1	PT-4	PT-2	PT-2	PT-2	ACT-1	
103	MEETING RM 1	CONC-1	RB-1	PT-1	PT-5	PT-1	PT-1	WD-2	PL-1 CASEWORK, SS-1 COUNTERTOP
104	MEETING RM 2	CONC-1	RB-1	PT-1	PT-5	PT-1	PT-1	WD-2	PL-1 CASEWORK, SS-1 COUNTERTOP
105	CORRIDOR	CONC-1	RB-1		BURNISHED CMU/PT-1		BURNISHED CMU/PT-1/PT-3	WD-1	
106	VEST	WM-1/CONC-1	RB-1		PT-1		BURNISHED CMU	ACT-1	
107	MENS	CONC-1	RB-1	PT-1	PT-6	PT-1	PT-1	PT-2	
108	WOMENS	CONC-1	RB-1	PT-1	PT-6	PT-1	PT-1	PT-2	
109	FAMILY	CONC-1	RB-1	PT-1	PT-6	PT-1	PT-1	PT-2	
110	WATER	CONC-2	RB-1	PT-1	PT-1	PT-1	PT-1	OTS-2	
111	CORR.	CONC-1	RB-1	PT-1	PT-3	PT-1	PT-1	ACT-1/PT-2	
112	IT CLOS.	CONC-1	RB-1	PT-1	PT-1	PT-1	PT-1	OTS-2	
113	STORAGE	CONC-2	RB-1	PT-1	PT-1	PT-1	PT-1	OTS-2	
114	WARMING KITCHEN	CONC-1	RB-1	PT-1	PT-1	PT-1	PT-1	ACT-1	
115	MECH.	CONC-2	RB-1	PT-1	PT-1	PT-1	PT-1	OTS-2	
116	ELEC.	CONC-2	NONE	PT-1	BRICK	PT-1	PT-1		
117	SPRINKLER	CONC-2	RB-1	PT-1	PT-1	PT-1	PT-1	OTS-2	

Grand total: 18

FINISH KEY			
ACT-1	ACOUSTICAL CEILING PANEL MANUFACTURER: ARMSTRONG CEILINGS STYLE: ULTIMA BEVELED REGULAR 9/16 COLOR: WHITE SIZE: 24" X 48"	RB-1	RUBBER BASE MANUFACTURER: JOHNSONITE STYLE: 4" COVE COLOR: TBD
CPT-1	CARPET TILE SPEC TBD, PROVIDE \$25/SY MATERIAL ALLOWANCE MANUFACTURER: STYLE: COLOR: SIZE: INSTALLATION:	RB-2	RUBBER BASE MANUFACTURER: JOHNSONITE STYLE: 4" COVE COLOR: TBD
PL-1	PLASTIC LAMINATE SPEC TBD, PROVIDE \$4/SF MATERIAL ALLOWANCE SPEC TBD MANUFACTURER: COLOR:	SS-1	SOLID SURFACE SPEC TBD, PROVIDE \$25/SF MATERIAL ALLOWANCE MANUFACTURER: STYLE:
PT-1	PAINT SPEC TBD MANUFACTURER: COLOR: FINISH:	WT-1	WINDOW TREATMENTS SPEC TBD MANUFACTURER: STYLE: COLOR
PT-2	PAINT SPEC TBD MANUFACTURER: COLOR: FINISH:	WT-2	WINDOW TREATMENTS SPEC TBD MANUFACTURER: STYLE: COLOR
PT-3	PAINT SPEC TBD MANUFACTURER: COLOR: FINISH:	CONC-1	STAINED CONCRETE SPEC TBD MANUFACTURER: STYLE: COLOR
PT-4	PAINT SPEC TBD MANUFACTURER: COLOR: FINISH:	CONC-2	SEALED CONCRETE SPEC TBD MANUFACTURER: STYLE: COLOR
PT-5	PAINT SPEC TBD MANUFACTURER: COLOR: FINISH:	WM-1	RECESSED MAT FLOOR GRILLE SPEC TBD MANUFACTURER: STYLE: COLOR
PT-6	PAINT SPEC TBD MANUFACTURER: COLOR: FINISH	OTS-1	CLEAR COAT FINISHED EXPOSED PLYWOOD
PT-7	PAINT SPEC TBD MANUFACTURER: COLOR: FINISH	OTS-2	EXPOSED FRAMING LUMBER
WD-1	1X6 TONGUE & GROOVE CEDAR SPEC TBD MANUFACTURER: COLOR: FINISH: STAINED		
WD-2	A/C PLYWOOD FINISH: CLEAR COAT		
GENERAL FINISH NOTES			
1. HM DOORS AND FRAMES ARE TO BE PAINTED PT-7. 2. PAINT FINISH TO BE EGGSHELL ON ALL WALLS EXCEPT RESTROOM WALLS. 3. RESTROOM WALL PAINT FINISH TO BE SEMI-GLOSS. 4. CEILING PAINT FINISH TO BE FLAT.			



1 FIRST FLOOR FINISH PLAN
SCALE: 3/16" = 1'-0"

NORTH FISH HATCHERY
HUB

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PROJECT NUMBER 203283.00

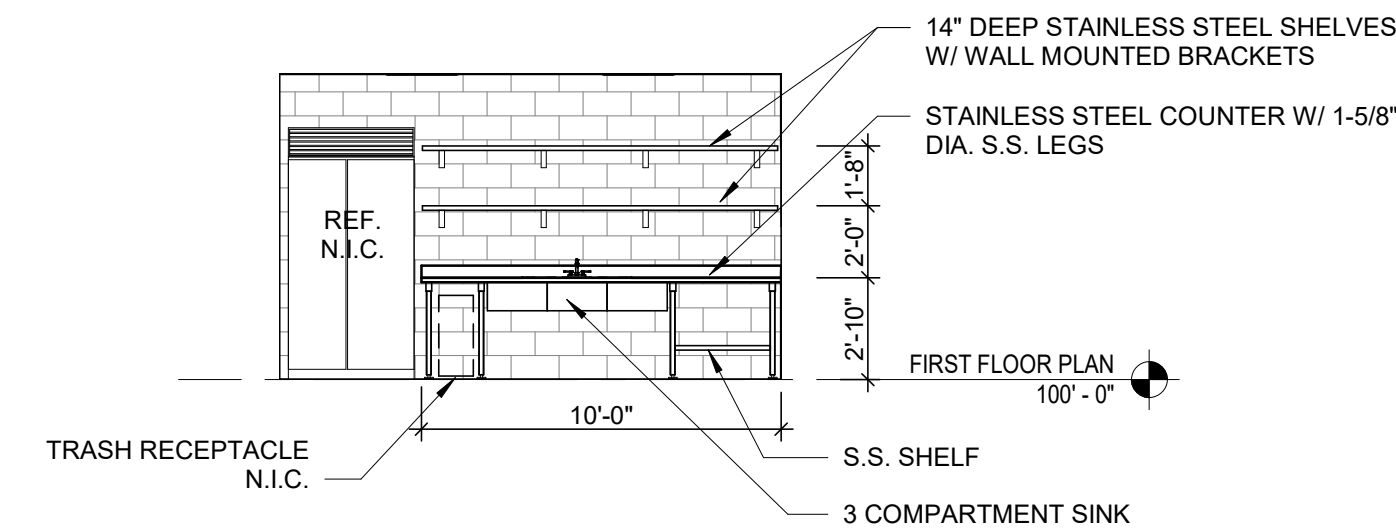
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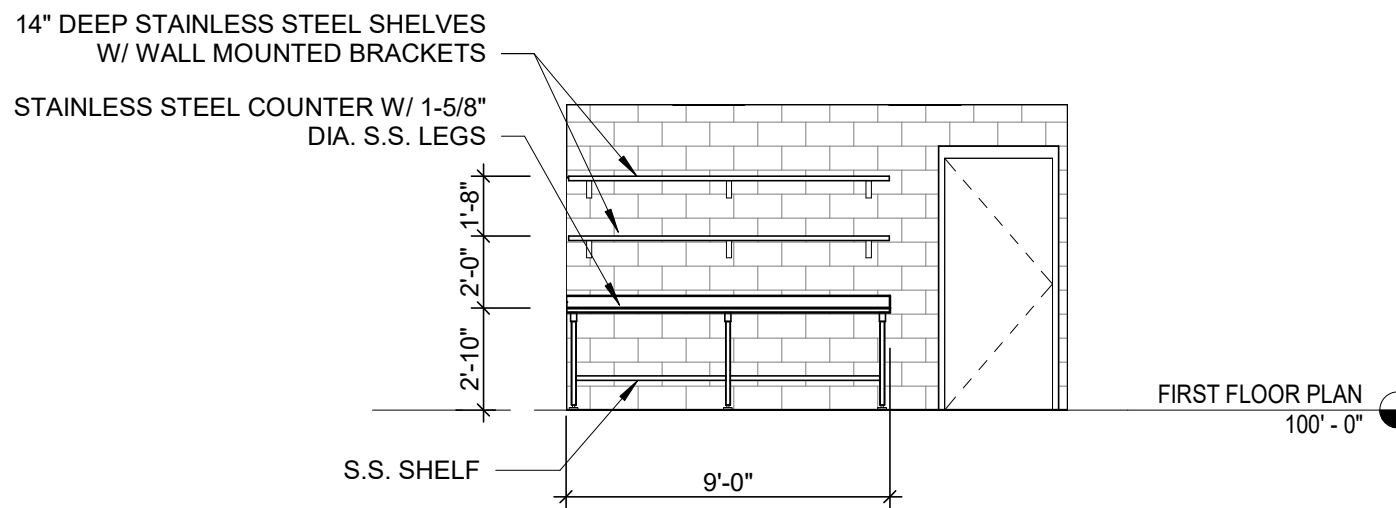
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INTERIOR ELEVATIONS

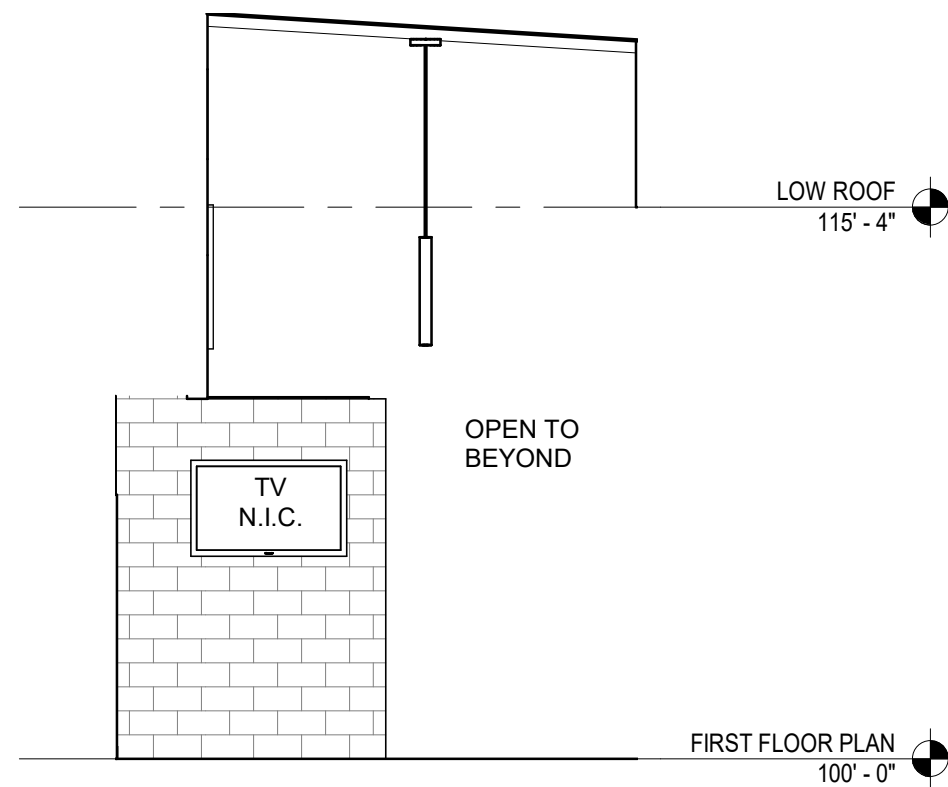
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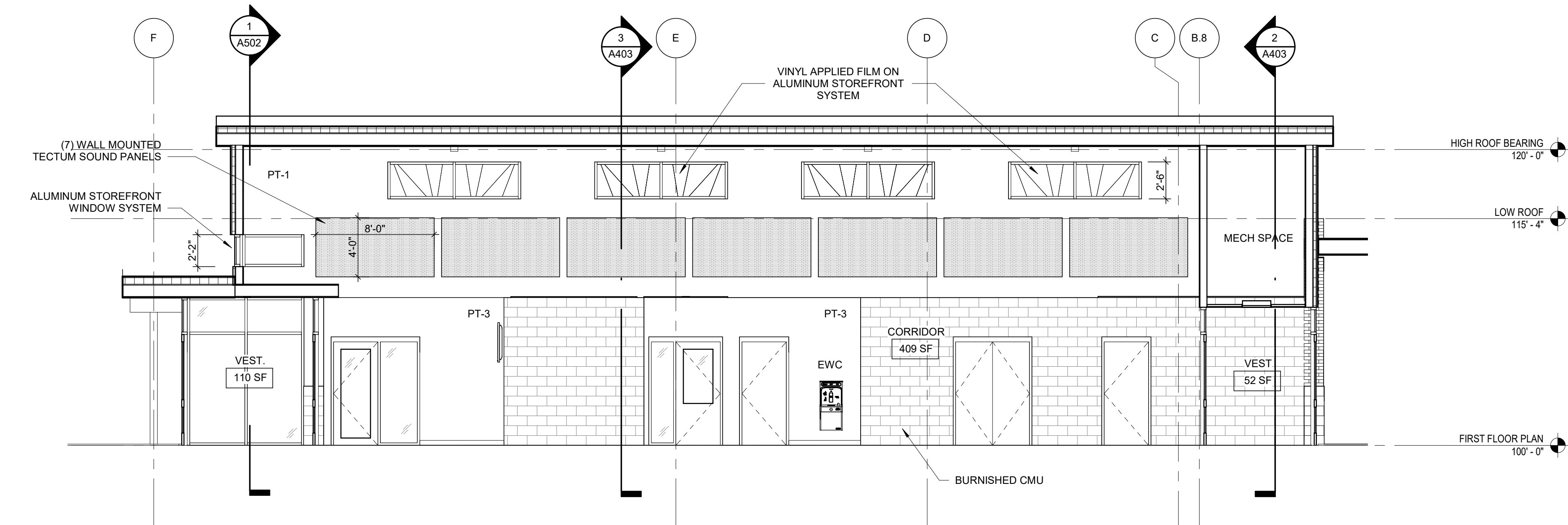
3 KITCHEN WEST ELEVATION
SCALE: 3/16" = 1'-0"



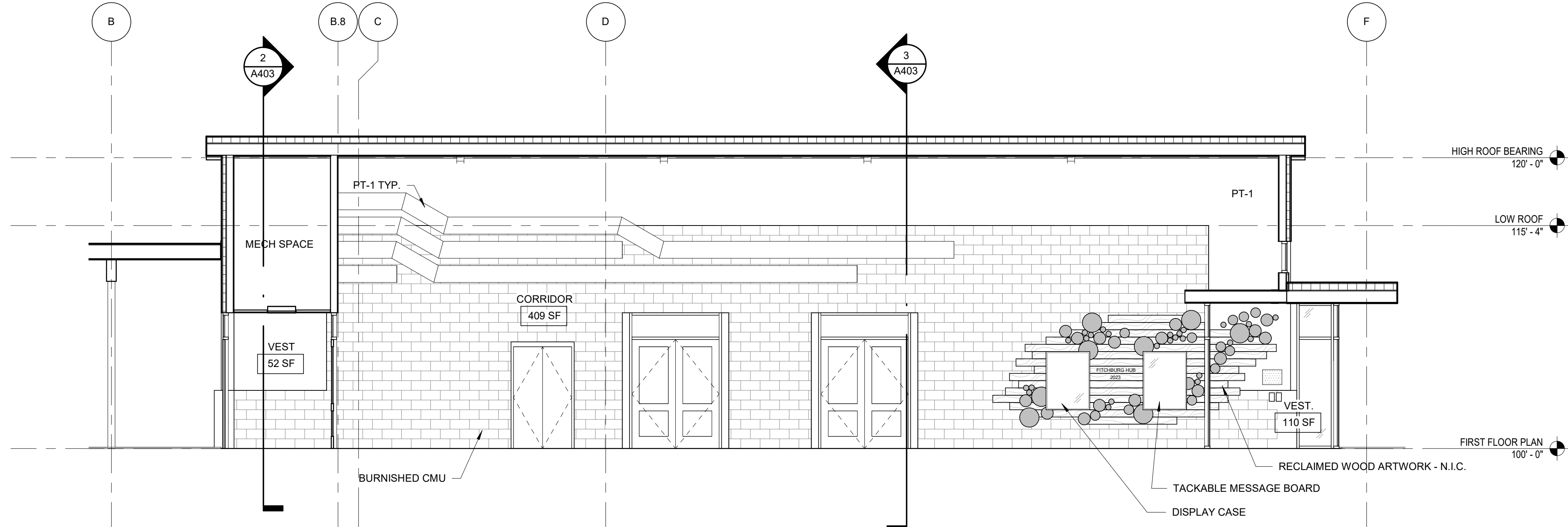
4 KITCHEN EAST ELEVATION
SCALE: 3/16" = 1'-0"



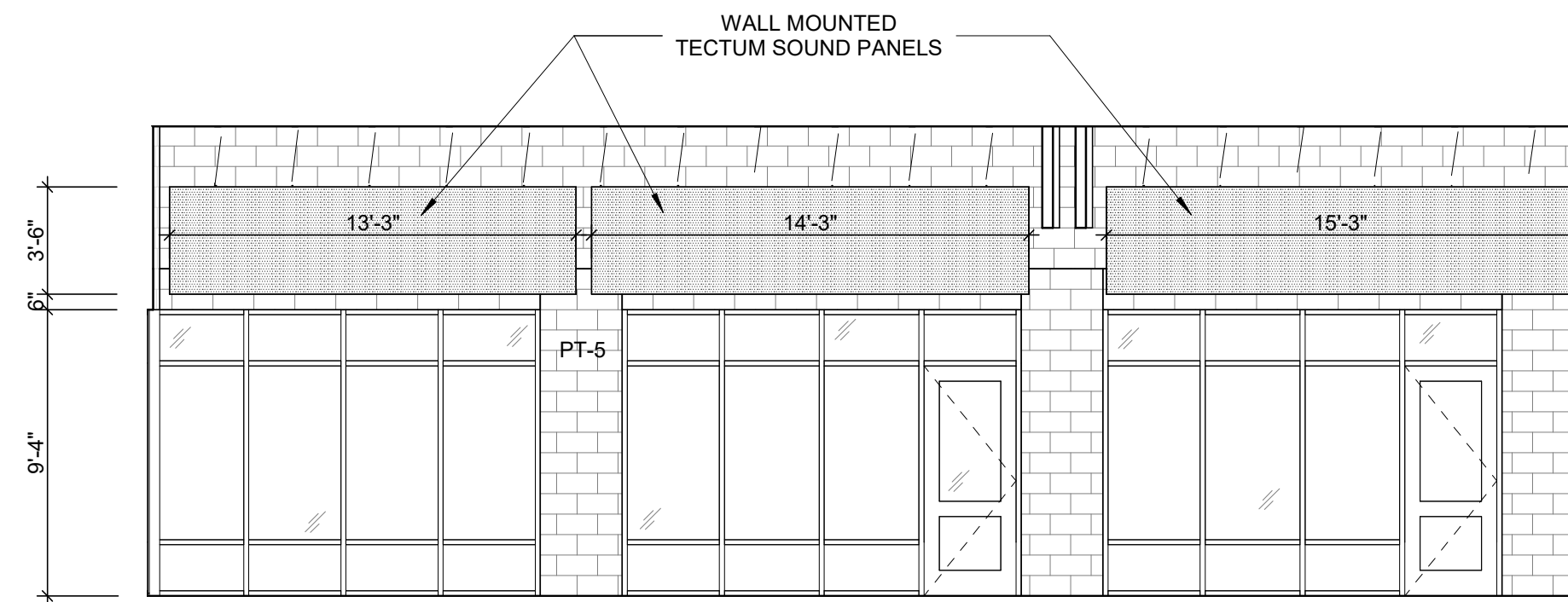
5 ENTRY NORTH ELEVATION
SCALE: 3/16" = 1'-0"



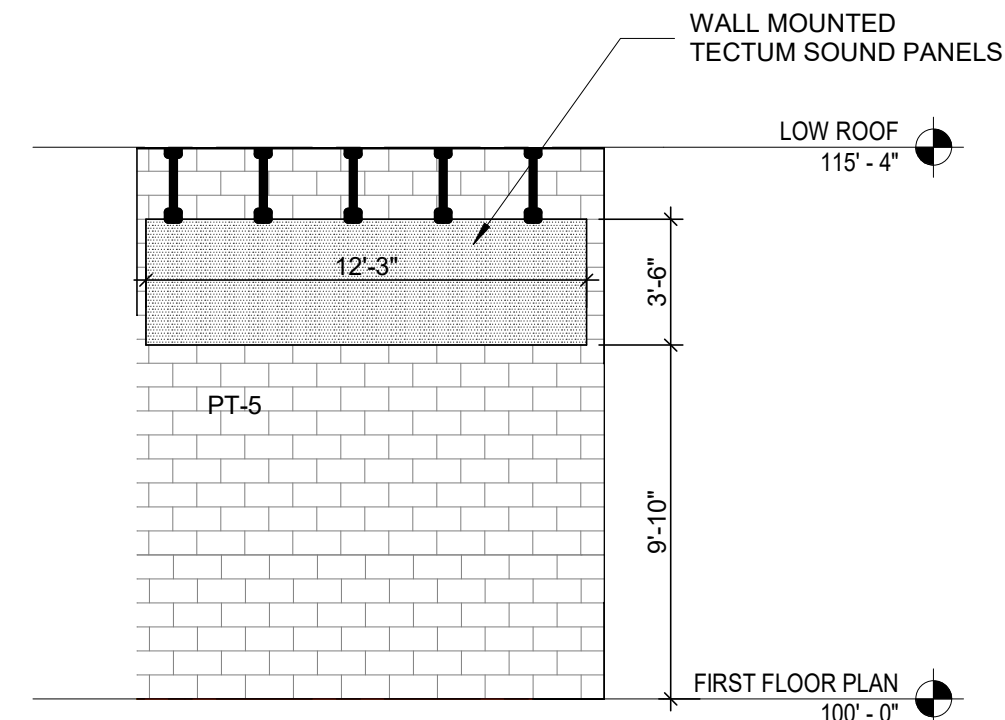
1 CORRIDOR WEST ELEVATION
SCALE: 3/16" = 1'-0"



2 CORRIDOR EAST ELEVATION
SCALE: 3/16" = 1'-0"



6 MEETING ROOM #1 & #2 EAST ELEVATION
SCALE: 3/16" = 1'-0"



7 MEETING ROOM #1 EAST ELEVATION
SCALE: 3/16" = 1'-0"

NORTH FISH HATCHERY
HUB

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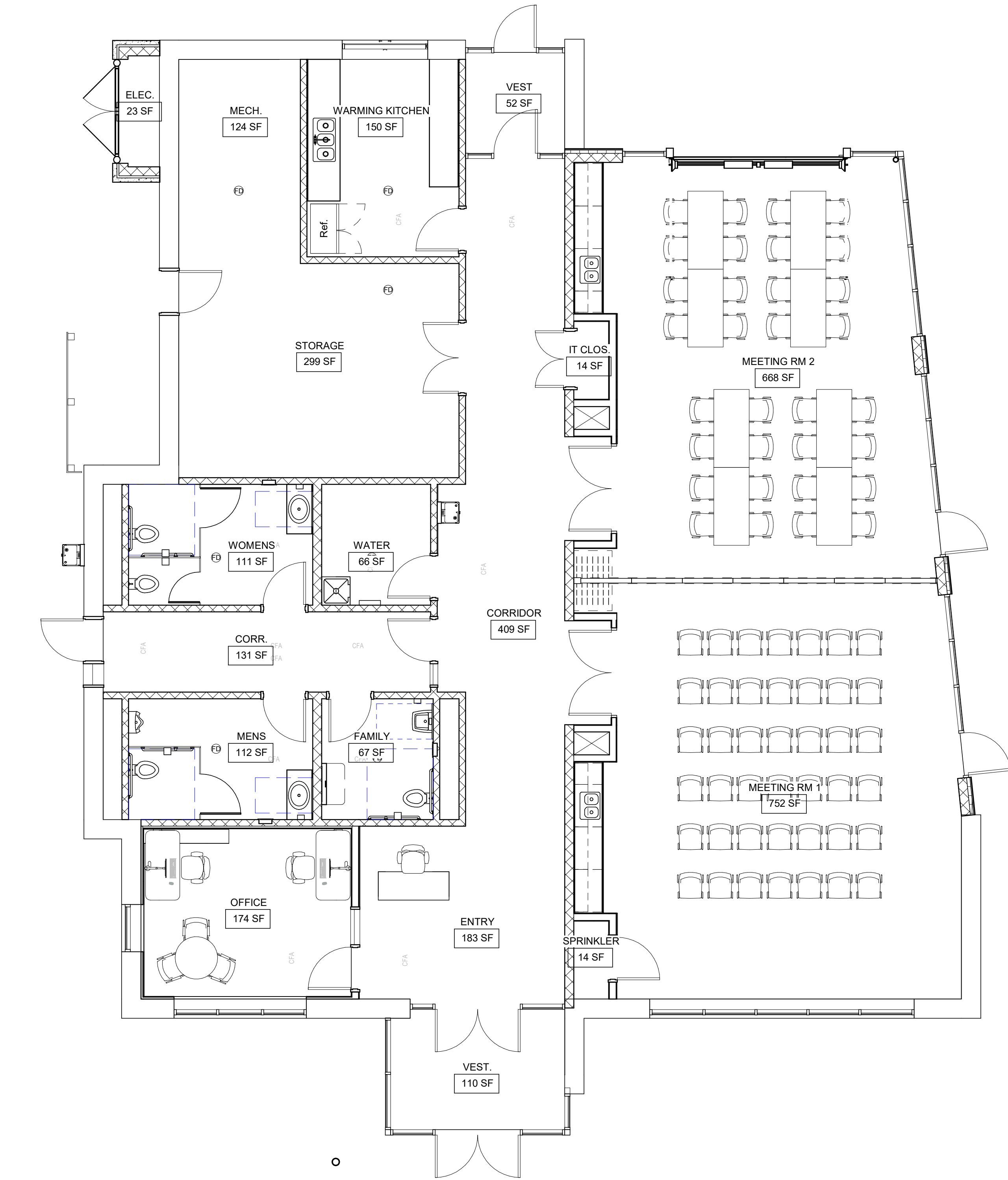
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FIRST FLOOR
FURNITURE PLAN - FOR
REFERENCE ONLY



1 FIRST FLOOR FURNITURE PLAN - FOR REFERENCE ONLY
SCALE: 3/16" = 1'-0"

NORTH FISH HATCHERY HUB

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STRUCTURAL NOTES

S001

STRUCTURAL DESIGN CRITERIA

1. THESE NOTES SUPPLEMENT THE SPECIFICATIONS. PROJECT SPECIFICATIONS SHALL BE REFERRED TO FOR CLARIFICATIONS AND ADDITIONAL INFORMATION. IN CASE OF CONFLICT BETWEEN PROJECT SPECIFICATIONS AND THESE NOTES, THESE NOTES SHALL GOVERN.

2. GOVERNING BUILDING CODE: 2015 IBC AS AMENDED BY THE STATE OF WISCONSIN.

3. DESIGN LOADS

LIVE LOAD	
TYPICAL SLAB ON GRADE	100 psf
MEZZANINE	100 psf
ROOF	
LIVE LOAD	
SNOW	50 psf+DRIFTING
SUPERIMPOSED DEAD LOAD	
TOP CHORD	10 psf
BOTTOM CHORD	10 psf
SNOW LOADS	
GROUND SNOW (Pg)	50 psf
SNOW LOAD IMPORTANCE FACTOR (Is)	1.0
SNOW LOAD EXPOSURE FACTOR (Ce)	1.0
ROOF THERMAL LOAD FACTOR (Ci) AT BUILDING	1.1
BASE ROOF SNOW LOAD AT BUILDING	46.2 psf
WIND LOADS	
BASIC WIND SPEED	90 mph
BUILDING OCCUPANCY CATEGORY	II
WIND LOAD IMPORTANCE FACTOR (Iw)	1.0
WIND EXPOSURE CATEGORY	C
INTERNAL PRESSURE COEFFICIENT	-0.18

COMPONENTS AND CLADDING:
(SEE ASCE/SEI 7-SECTION 6 FOR ZONE DEFINITIONS AND DIAGRAMS)
COMPONENT AND CLADDING SELECTED EDGE STRIP DISTANCE, (A) 5.5 ft

TRIBUTARY WIND LOAD AREAS	10 ft²	10 ft²	10 ft²
ROOF (MONOSLOPE)			
ZONE 1 (NEGATIVE)	19.7 psf	17.3 psf	16.3 psf
ZONE 2 (NEGATIVE)	23.0 psf	20.7 psf	19.7 psf
ZONE 3 (NEGATIVE)	23.0 psf	20.7 psf	19.7 psf
WALLS			
ZONE 4 (NEGATIVE)	21.3 psf	19.3 psf	18.4 psf
ZONE 5 (NEGATIVE)	26.3 psf	22.3 psf	20.4 psf
ZONE 4 & 5 (NEGATIVE)	19.7 psf	17.6 psf	16.7 psf

SEISMIC LOADS
SEISMIC USE GROUP / OCCUPANCY CATEGORY II
SEISMIC IMPORTANCE FACTOR (Ie) 1.0
SEISMIC SITE CLASS C
SPECTRAL RESPONSE COEFFICIENT (Sds) 0.048
SPECTRAL RESPONSE COEFFICIENT (Sd1) 0.032
SEISMIC DESIGN CATEGORY A
BASIC SEISMIC FORCE RESISTING SYSTEM:
BEARING WALL SYSTEM
LIGHT FRAMED WALL SHEATHED WITH WOOD STRUCTURAL PANELS RATED
FOR SHEAR RESISTANCE:
R = 6.5 Qo = 3.0 Cd = 4.0

ANALYSIS PROCEDURE:
EQUIVALENT LATERAL FORCE PROCEDURE

4. FOUNDATIONS AND EARTHWORK
ALLOWABLE SOIL BEARING PRESSURE FOR FOOTINGS 4,000 psf

5. CONCRETE
MINIMUM 28 DAY COMPRESSIVE STRENGTH (fc) 4,000 psi
FOOTINGS 4,000 psi
PIERS, WALLS 4,000 psi
SLAB-ON-GRADE (INTERIOR) 3,500 psi
SLAB-ON-GRADE (EXTERIOR) 4,500 psi

COVER ON MILD STEEL REINFORCEMENT
CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH 3"
CONCRETE EXPOSED TO EARTH OR WEATHER
#5 BARS AND SMALLER 1 1/2"
#6 BARS AND LARGER 2"
CONCRETE NOT EXPOSED TO WEATHER OR IN CONTACT WITH GROUND 1"

CONCRETE REINFORCEMENT YIELD STRENGTH (Fy)
ALL DEFORMED MILD STEEL 60,000 psi
WELDED WIRE FABRIC 65,000 psi

6. CONCRETE MASONRY
DESIGN STRESSES
MASONRY (NORMAL WEIGHT) MEETING ASTM C90 fm = 2,250 psi
GROUT: MIN COMPRESSIVE STRENGTH AT 28 DAYS MEETING ASTM C476 3,000 psi

7. STRUCTURAL STEEL
STRUCTURAL STEEL YIELD STRENGTH (Fy)
TUBES 46,000 psi
WF BEAMS 50,000 psi
WF COLUMNS 50,000 psi
BOLTS FOR STANDARD FRAME CONNECTIONS 3/4" DIAMETER A325
BOLTS FOR SINGLE SHEAR TAB CONNECTIONS 3/4" DIAMETER A325
ANCHOR RODS F1554
WELDING ELECTRODES E70

8. MISCELLANEOUS
VERIFY OPENINGS THROUGH FLOOR AND WALLS WITH ARCHITECTURAL, MECHANICAL, PLUMBING, AND ELECTRICAL REQUIREMENTS. CHANGES IN SIZE, LOCATION OR NUMBER OF OPENINGS SHOWN ON THE STRUCTURAL DRAWINGS SHALL NOT BE PERMITTED WITHOUT WRITTEN APPROVAL OF THE ARCHITECT/ENGINEER. NOT ALL OPENINGS ARE SHOWN ON THE STRUCTURAL DRAWINGS.

GENERAL

1. THE STRUCTURAL DRAWINGS ARE INTENDED TO BE USED WITH ARCHITECTURAL AND MECHANICAL DRAWINGS. CONTRACTOR IS RESPONSIBLE FOR COORDINATING SUCH REQUIREMENTS INTO THE SHOP DRAWINGS AND WORK.

2. NO OPENING SHALL BE MADE IN ANY STRUCTURAL BEAM, COLUMN, SUPPORT FLOOR, LOAD BEARING WALL, FOOTING, OR FOUNDATION WALL WITHOUT THE WRITTEN APPROVAL OF THE ARCHITECT/ENGINEER. OPENINGS IN NON-LOAD BEARING WALLS REQUIRE THE ARCHITECT'S APPROVAL.

3. THE CONTRACTOR IS RESPONSIBLE FOR LIMITING THE AMOUNT OF CONSTRUCTION LOAD IMPOSED UPON NEW STRUCTURAL FRAMING. CONSTRUCTION LOADS SHALL NOT EXCEED THE DESIGN CAPACITY OF THE FRAMING AT THE TIME THE LOADS ARE IMPOSED.

4. THE STRUCTURE IS DESIGNED TO FUNCTION AS A UNIT UPON COMPLETION. THE CONTRACTOR IS RESPONSIBLE FOR FURNISHING ALL TEMPORARY BRACING AND/OR SUPPORT THAT MAY BE REQUIRED AS THE RESULT OF THE CONTRACTOR'S CONSTRUCTION METHODS AND/OR SEQUENCES. THE STRUCTURAL ENGINEER ASSUMES NO LIABILITY FOR THE STRUCTURE DURING CONSTRUCTION.

5. FIREPROOFING METHODS AND MATERIALS FOR STRUCTURAL DRAWINGS. REFER TO ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR RATING REQUIREMENTS, FIREPROOFING METHODS AND MATERIALS.

6. ALL SECTIONS, DETAIL AND NOTES SHOWN ON THE STRUCTURAL DRAWINGS ARE INTENDED TO BE TYPICAL AND SHALL APPLY TO SIMILAR SITUATIONS ELSEWHERE UNLESS OTHERWISE NOTED.

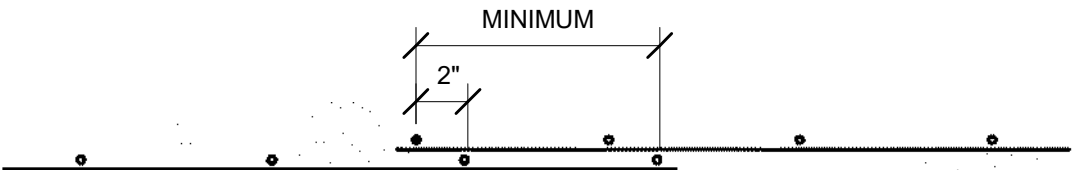
7. WHEN CONFLICTS ARE NOTED ON THE DRAWINGS, THE CONTRACTOR IS RESPONSIBLE FOR NOTIFYING THE A/E FOR RESOLUTION PRIOR TO FABRICATION OR INSTALLATION.

FOUNDATION NOTES

- GEOTECHNICAL INFORMATION TAKEN FROM: _____
- THE OWNER SHALL RETAIN A SOILS ENGINEERING FIRM TO MONITOR PROPER SUBGRADE PREPARATIONS AND TO OVERSEE THE TESTING AND COMPACTION OF COMPACTED FILL MATERIAL.
- CONTRACTOR SHALL LOCATE EXISTING UNDERGROUND UTILITIES BEFORE FOUNDATION EXCAVATION IF UNDERGROUND UTILITY CONFLICTS ARE DISCOVERED BEFORE OR ENCOUNTERED DURING EXCAVATION, NOTIFY THE ARCHITECT/ENGINEER IMMEDIATELY.
- CONTRACTOR SHALL VERIFY THE LOCATION AND ELEVATION OF ANY EXISTING FOUNDATIONS.
- BEFORE PLACING FOOTINGS, FOUNDATIONS, GRADE BEAMS, OR SLAB-ON-GRADE, THE SUB-GRADE SHALL BE PREPARED AND INSPECTED AS REQUIRED BY THE SPECIFICATIONS AND THE DRAWINGS.
- REINFORCE ALL FOUNDATION WALLS AND FOOTINGS AS SHOWN ON THE ARCHITECTURAL AND STRUCTURAL DRAWINGS.
- CONTROL JOINTS IN THE CAST-IN-PLACE CONCRETE FOUNDATION WALLS SHALL BE PLACED AT NOT TO EXCEED 20' OC OR AS LOCATED ON THE DRAWINGS.
- PERIMETER FOUNDATION WALL INSULATION IS NOT SHOWN ON THE FOUNDATION DETAILS. SEE ARCHITECTURAL DRAWINGS AND THE SPECIFICATIONS FOR INSULATION REQUIREMENTS.
- SEE SPECIFICATIONS FOR FREE DRAINING BACKFILL BENEATH ALL CONCRETE WALKS AND SLABS ADJACENT TO STRUCTURE.
- CONTRACTOR NOTE: THE BASE OF ALL EXCAVATIONS SHALL BE KEPT FREE OF WATER AND LOOSE SOIL PRIOR TO PLACING CONCRETE. CARE SHOULD BE TAKEN DURING EXCAVATION AND CONSTRUCTION TO MINIMIZE DISTURBANCE OF THE BEARING SOILS. THE CONCRETE SHOULD BE PLACED AS SOON AS POSSIBLE AFTER EXCAVATION TO PREVENT EXCESSIVE DRYING OR WETTING OF THE SOIL.

CONCRETE CONSTRUCTION NOTES

- ALL CONCRETE DESIGN AND CONSTRUCTION SHALL CONFORM WITH THE LOCAL BUILDING CODE REQUIREMENTS AND THOSE OF THE FOLLOWING STANDARDS (LATEST EDITION):
"ACI 318, BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE".
"ACI 315, DETAILS AND DETAILING OF CONCRETE REINFORCEMENT".
"ACI 301, SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS".
"ACI 307, RECOMMENDED PRACTICE FOR CONCRETE FORMWORK".
- SEE SPECIFICATIONS FOR INFORMATION REGARDING CONCRETE MIX DESIGN, TESTING, MATERIALS, AND ADMIXTURES.
- ALL CONCRETE REINFORCING STEEL IS TO BE ASTM A-615, GRADE 60.
- PIPE SLEEVES OVER 1-1/2" INCHES IN DIAMETER WHICH PASS THROUGH CONCRETE WALLS OR SLABS SHALL BE SCHEDULE 40 GALVANIZED STEEL PIPE. ALL OTHER SLEEVES SHALL BE 14 GAUGE SHEET METAL. SLEEVES SHALL BE ONE SIZE LARGER THAN OUTSIDE DIAMETER OF PIPE PASSING THROUGH SLEEVE. VERIFY SIZE AND NUMBER WITH MECHANICAL, ELECTRICAL, AND PLUMBING CONTRACTORS.
- ALUMINUM CONDUIT IS NOT PERMITTED TO BE EMBEDDED IN CONCRETE.
- REFER TO ARCHITECTURAL DRAWINGS FOR CONCRETE FINISHES.
- THE CONSTRUCTION JOINTS NOTED ON THE FRAMING PLANS MUST BE PLACED AS SHOWN. ADDITIONAL CONSTRUCTION JOINTS OR MODIFICATIONS TO THOSE SHOWN WILL BE ALLOWED ONLY AFTER THEIR LOCATION HAS BEEN APPROVED BY THE ARCHITECT/ENGINEER.
- REFER TO ARCHITECTURAL DRAWINGS FOR SLAB-ON-GRADE FINISH TYPES AND DEPRESSIONS AS REQUIRED FOR MATS, TILES, SLAB FLATNESS TOLERANCE, AND OTHER FINISH MATERIALS.
- LAP WWF REINFORCEMENT A DIMENSION EQUAL TO THE WIRE SPACING PLUS 2" (6" MIN).



MASONRY NOTES

- ALL MASONRY WALLS ARE TO HAVE HORIZONTAL REINFORCEMENT WHICH DOES NOT EXCEED 16 INCHES ON CENTER VERTICALLY. SEE SPECIFICATIONS FOR INFORMATION RELATING TO CONCRETE BLOCK, BRICK, AND WALL REINFORCING.
- ALL VERTICAL REINFORCING STEEL IN MASONRY WALLS ARE TO COMPLY WITH ASTM A615, GRADE 60. LAPS SHALL BE 48 BAR DIAMETERS (12" MINIMUM).
- PROVIDE SPLICE BARS FOR ALL BOND BEAM REINFORCING AT ALL CORNERS. SPLICE BAR TO BE THE SAME SIZE AS BARS IN THE BOND BEAM. LAPS SHALL BE 50 BAR DIAMETER.
- WHERE MASONRY IS APPLIED ADJACENT TO STEEL MEMBERS (BEAMS AND COLUMNS) PROVIDE ANCHORING DEVICES PER SPECIFICATIONS.
- REFER TO ARCHITECTURAL PLANS FOR ROUGH OPENING LOCATIONS, SIZES, AND ELEVATIONS.
- USE SIMPSON TITEN HD OR APPROVED EQUAL TYPE ANCHORS IN CMU WALL PARTITIONS.
- ALL NON-STRUCTURAL CMU WALLS SHALL BE REINFORCED WITH A #3 VERTICAL BAR AT 48" OC WITH THAT CMU CORE GROUTED AND HORIZONTAL JOINT REINFORCEMENT AT 16" OC THE BOTTOM TWO COURSES SHALL BE GROUTED SOLID. PROVIDE CONTINUOUS BOND BEAM AT TOP OF WALL WITH 2 #4's CONTINUOUS GROUT BOND BEAM SOLID. PROVIDE #3 DOWEL AT 48" OC MATCH VERTICAL BAR. LAP 50 BAR DIAMETERS. PROVIDE LINTEL BLOCK AS BOND BEAM WITH (2) #5 x CONT, AND 8" BEARING EACH END. TYPICAL UNLESS NOTED OTHERWISE.
- CONSTRUCTION BRACING FOR MASONRY WALLS SHALL BE DESIGNED BY A PROFESSIONAL ENGINEER LICENSED IN THE STATE IN WHICH THE PROJECT IS LOCATED. MASONRY SUBMITTALS SHALL CONTAIN A LETTER SEALED BY THE ENGINEER AND SHALL BE ISSUED TO THE OWNER AFTER SUBMITTAL REVIEW AND PRIOR TO STARTING MASONRY CONSTRUCTION.

GENERAL NOTES APPLY TO ALL SHEETS

- CONTRACTOR TO PROVIDE DRAFT STOPPING IN ATTIC. MAXIMUM AREA OF SUBDIVIDE ATTIC AREA IS 3000 SF CONTRACTOR TO COORDINATE LOCATION OF DRAFT STOPPING WITH ARCHITECT AND TRUSS SHOP DRAWINGS PRIOR TO START OF CONSTRUCTION. PROVIDE AN ATTIC ACCESS PANEL INTO EACH ATTIC COMPARTMENT. MINIMUM OPENING SIZE OF 20" x 30" COORDINATE LOCATION WITH ARCHITECT. DRAFT STOPPING TO EXTEND TO FASCIA AT OVERHANGS.
- SECURE TRUSSES AT EACH BEARING WITH SIMPSON H2.5A MIN.
- CONTRACTOR TO SUBMIT TRUSS SHOP DRAWINGS TO ARCHITECT FOR REVIEW PRIOR TO CONSTRUCTION.

WOOD FRAMING NOTES

- DESIGN, FABRICATION AND CONSTRUCTION SHALL CONFORM TO THE "NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION", LATEST EDITION, AS RECOMMENDED BY THE NATIONAL LUMBER MANUFACTURER'S ASSOCIATION.
- DESIGN, FABRICATION AND CONSTRUCTION OF ALL PLYWOOD FRAMING SHALL CONFORM TO "PLYWOOD DESIGN SPECIFICATIONS" LATEST EDITION, AS PUBLISHED BY THE AMERICAN PLYWOOD ASSOCIATION. ALL COLUMNS SHOWN ON STRUCTURAL DRAWINGS SHALL BE CONTINUOUS UNLESS NOTED. 3. 4. SILLS AND MEMBERS EXPOSED DIRECTLY TO MOISTURE OR IN DIRECT CONTACT WITH CONCRETE OR MASONRY SHALL BE PRESSURE TREATED.
- PLYWOOD SHALL CONFORM TO THE LATEST EDITION OF U.S. PRODUCT STANDARD PS-1. INSTALL IN STAGGERED PATTERN. NAIL AS REQUIRED FOR DIAPHRAGM ACTION.
- FRAMING CONNECTIONS SHALL BE SIMPSON COMPANY OR EQUAL. OF THE CATALOG DESIGNATIONS INDICATED. INSTALL MANUFACTURERS STANDARD NAILS IN ALL HOLES PROVIDED UNLESS OTHERWISE NOTED.
- SHEAR PLATE AND SPLIT RING FASTENERS SHALL BE TECO OR APPROVED EQUAL.
- NAILS SHALL BE STRONGHOLD, GALVANIZED COMMON NAILS OF THE SIZES INDICATED, EXCEPT THAT GALVANIZED SIDING NAILS SHALL BE USED FOR THE ATTACHMENT OF EXTERIOR PLYWOOD SIDING.
- WHERE NOT NOTED OTHERWISE, NAILING SHALL BE ACCORDING TO NAILING SCHEDULE IN TABLE 2304.9.1 IBC.
- ALL BOLTS AND LAG SCREWS SHALL BE AMERICAN STANDARD MANUFACTURE.
- BOLT HOLES IN WOOD SHALL BE DRILLED 1/16" MAXIMUM OVERSIZE. HOLES FOR SCREWS AND LAG SCREWS SHALL BE FIRST BORED FOR THE SAME DEPTH AND DIAMETER OF THE SHANK THEN THE REMAINDER OCCUPIED BY THE THREADED PORTION SHALL BE BORED NOT LARGER IN DIAMETER THAN THE ROOT OF THE THREAD. ALL SCREWS SHALL BE SCREWED, NOT DRIVEN INTO PLACE.
- PROVIDE WASHERS UNDER ALL NUTS AND HEADS OF BOLTS AND LAG SCREWS. WASHERS SHALL BE EITHER ROUND MALLEABLE IRON OR SQUARE CUT STEEL WASHERS 1/4" THICK x 3 FASTENER DIAMETERS.
- ALL TIMBER FRAMING SHALL BE ACCURATELY CUT, NOTCHED, OR DAPPED AS INDICATED. NO OVERCUT IS PERMITTED FOR NOTCHES OR DAPS. MEMBERS SHALL FIT TIGHT AND TRUE. EXAMINE MEMBERS FOR DETRIMENTAL DAMAGE BEFORE INSTALLATION, AND AVOID NATURAL DEFECTS AT CONNECTIONS. WHERE STEEL PLATES OCCUR, THEY SHALL BE USED AS THE TEMPLATE FOR BORING HOLES.
- WHEREVER NECESSARY TO CUT OR DRILL TREATED LUMBER, TREAT THE CUT OR BORED SURFACES WITH TWO HEAVY COATS OF THE SAME PRESERVATIVE AS THE ORIGINAL TREATMENT.
- PROVIDE SOLID BLOCKING AT MID-HEIGHT OF ALL WALLS.
- PROVIDE SOLID BLOCKING AT MID-SPAN OF SAWN JOISTS EXCEEDING 10 FOOT SPAN AND AT 10 FOOT MAXIMUM ON CENTER.
- MEMBERS BEARING ON CONCRETE OR MASONRY WALLS SHALL HAVE A 1/2" AIR SPACE AROUND SIDES AND END OF BEAM.
- PROVIDE SOLID BLOCKING BETWEEN JOISTS AT ALL SUPPORTS.
- SET ALL JOISTS WITH CROWN UP.
- PLYWOOD PANEL EDGES SHALL BE NAILED NOT LESS THAN 3/8" IN FROM THE PANEL EDGE.
- PROVIDE 1/4" GAP BETWEEN 4" x 8' PLYWOOD PANELS AT SIDES AND 1/8" GAP AT ENDS. USE PLYWOOD CLIP SPACERS TO MAINTAIN GAPS.
- BOLT NAILERS AND BLOCKING TO STEEL, MASONRY, OR CONCRETE MEMBERS WITH BOLTS OF LENGTH REQUIRED SPACED 2'-0" OC AND 4" FROM EACH END, EXCEPT AS OTHERWISE NOTED. ANCHOR BOLTS SHALL BE 3/8" DIAMETER UNLESS OTHERWISE INDICATED.

STRUCTURAL STEEL NOTES

- FABRICATION AND ERECTION OF STRUCTURAL STEEL SHALL CONFORM WITH THE AISC (AMERICAN INSTITUTE OF STEEL CONSTRUCTION), "MANUAL OF STEEL CONSTRUCTION", LATEST EDITION.
- ALL STEEL DETAILS AND CONNECTIONS SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE AISC "SPECIFICATIONS FOR STRUCTURAL STEEL BUILDINGS. ALLOWABLE STRESS DESIGN AND PLASTIC DESIGN", LATEST EDITION.
- ALL WELDING SHALL BE BY WELDERS HOLDING CURRENT VALID AWS CERTIFICATES IN THE TYPE OF WELD REQUIRED.
- SHOP CONNECTIONS NOT SPECIFICALLY DETAILED ON THE DRAWINGS SHALL BE BOLTED OR WELDED. FIELD CONNECTIONS SHALL BE BOLTED UNLESS SPECIFICALLY DETAILED OTHERWISE.
- DESIGN IN ACCORDANCE WITH GUIDE DETAILS AND REACTIONS.
- USE A325N BOLTS UNLESS NOTED OTHERWISE.
- OVERSIZED OR SLOTTED HOLES SHALL NOT BE USED FOR ANY CONNECTIONS UNLESS SPECIFICALLY INDICATED ON THE DRAWINGS OR APPROVED IN WRITING BY THE ENGINEER.
- ALL BEAM COPES MUST BE MADE TO A RADIUS (1" MINIMUM). ALL BUTT AND FULL PENETRATION WELDS SHALL BE MADE USING RUN OFF TABS WHICH SHALL BE TRIMMED FLUSH AND GROUND SMOOTH AFTER WELD IS COMPLETED.
- ALL WELDS INDICATED SHALL MEET THE MINIMUM WELD SIZE SPECIFIED BY THE CURRENT AISC MANUAL OF STEEL DESIGN. (SINGLE PASS AS REQUIRED).
- CUTS, HOLES, COPING, ETC. REQUIRED FOR WORK OF OTHER TRADES SHALL BE SHOWN ON THE SHOP DRAWINGS AND MADE IN THE SHOP. CUTS OR BURNING OF HOLES IN STRUCTURAL STEEL MEMBERS IN THE FIELD WILL NOT BE PERMITTED.
- PROVIDE ANY NECESSARY TEMPORARY BRACING OR GUYS TO PROVIDE LATERAL SUPPORT OF THE BUILDING UNTIL PERMANENT FRAME IS COMPLETELY INSTALLED.
- INSTALL EXPANSION BOLTS IN ACCORDANCE WITH THE ICBO REPORT RECOMMENDATIONS.
- ALL ELEVATOR GUIDE BEAMS SHALL BE S8x18.4 UNLESS NOTED OTHERWISE. SLOPE TO MATCH BEAM SLOPE.
- STRUCTURAL STEEL FRAMING SHALL BE TRUE AND PLUMB BEFORE CONNECTIONS ARE FINALLY BOLTED OR WELDED.

NORTH FISH HATCHERY
HUB

Traceway Dr., Fitchburg

City of Fitchburg
5520 Lacy Rd.
Fitchburg, Wisconsin 53711-5318

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STRUCTURAL
SCHEDULES

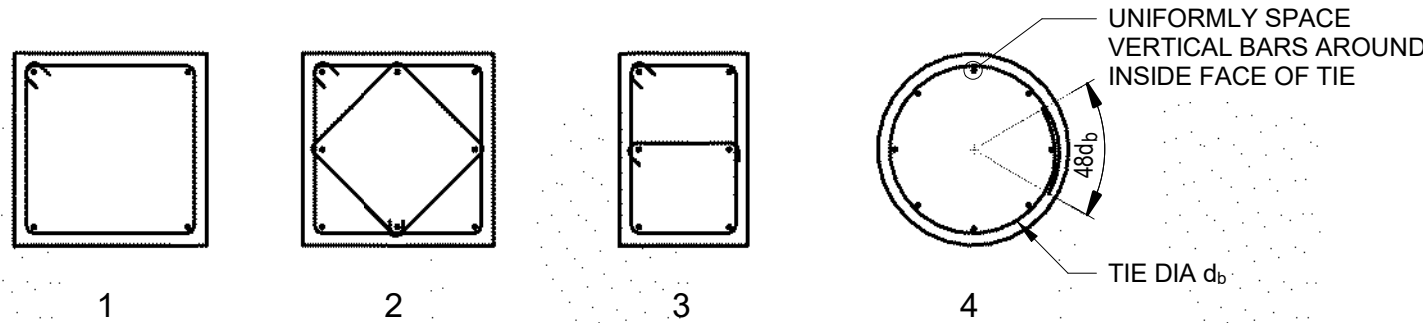
S002

CONCRETE PIER SCHEDULE					
MARK	PIER DIMENSIONS	PIER TYPE	REINFORCEMENT		REMARKS
			VERTICAL	TIES	
P1	18" x 18"	2	(8) #6	#3 AT 12" OC	

PIER NOTES

- PIERS TO BE CENTERED ON BUILDING GRID LINE(S) UNLESS OTHERWISE NOTED.

PIER TYPES



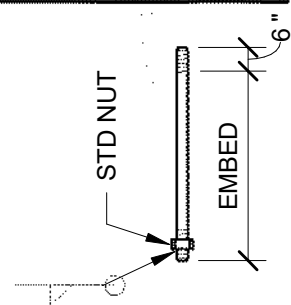
SPREAD FOOTING SCHEDULE					
MARK	FOOTING DIMENSIONS			FOOTING REINFORCEMENT	REMARKS
	LENGTH	WIDTH	THICKNESS		
F40	4' - 0"	4' - 0"	1' - 0"	(4) #5; B, EW	

WALL FOOTING SCHEDULE				
MARK	CONTINUOUS FOOTING DIMENSIONS		FOOTING REINFORCEMENT	REMARKS
	WIDTH	THICKNESS		
W20	2' - 0"	1' - 0"	(x) #X; B, CONT	
W30	3' - 0"	1' - 0"	(x) #X; B, CONT	

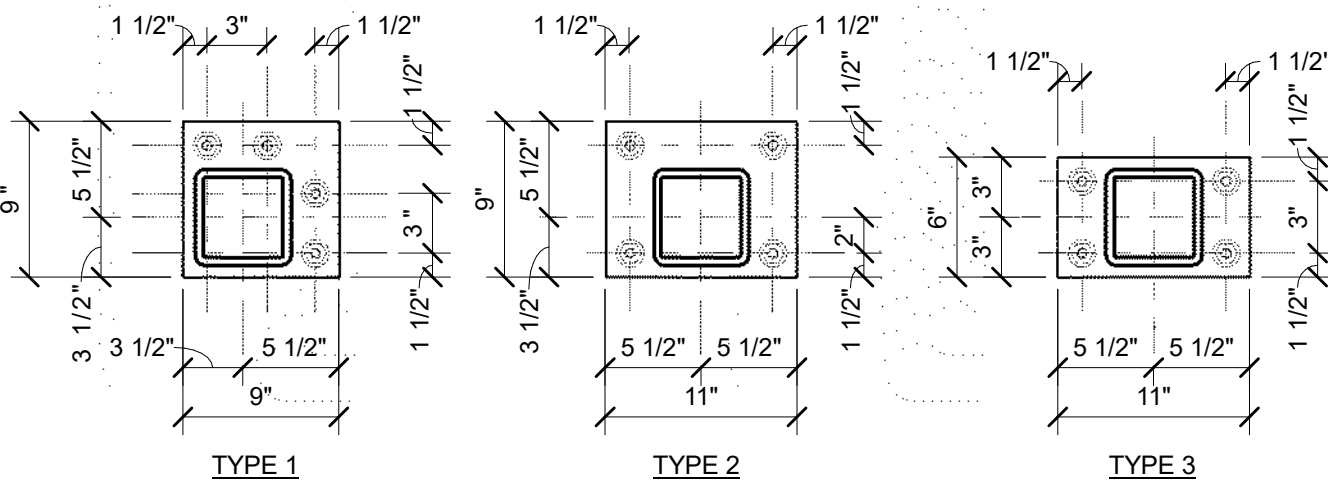
BASE PLATE SCHEDULE				
MARK	SIZE "t" x "w" x "l"	ANCHOR RODS	BASE PLATE TYPE	NOTES
BP1	3/4" x 9" x 0'-9"	(4) 3/4" DIA x	1	
BP2	3/4" x 9" x 0'-11"	(4) 3/4" DIA x	2	
BP3	3/4" x 6" x 0'-11"	(4) 3/4" DIA x	3	
BP1A	3/4" x 9" x 0'-9"	(4) 3/4" DIA x	1	
BP2A	3/4" x 9" x 0'-11"	(4) 3/4" DIA x	2	
BP3A	3/4" x 6" x 0'-11"	(4) 3/4" DIA x 10"	3	

BASE PLATE NOTES:

- FASTEN STEEL COLUMN TO TOP OF CONCRETE USING (4) F1554 [36] [55] [105] ANCHOR RODS OF SIZE INDICATED WITH DOUBLE NUTS AT COLUMN BASE PLATE, AND 1 1/2" GROUT AT 3/4" DIAMETER ANCHOR RODS AND 2" GROUT AT 1" DIAMETER ANCHOR RODS. SET ANCHOR RODS WITH 6" PROJECTION



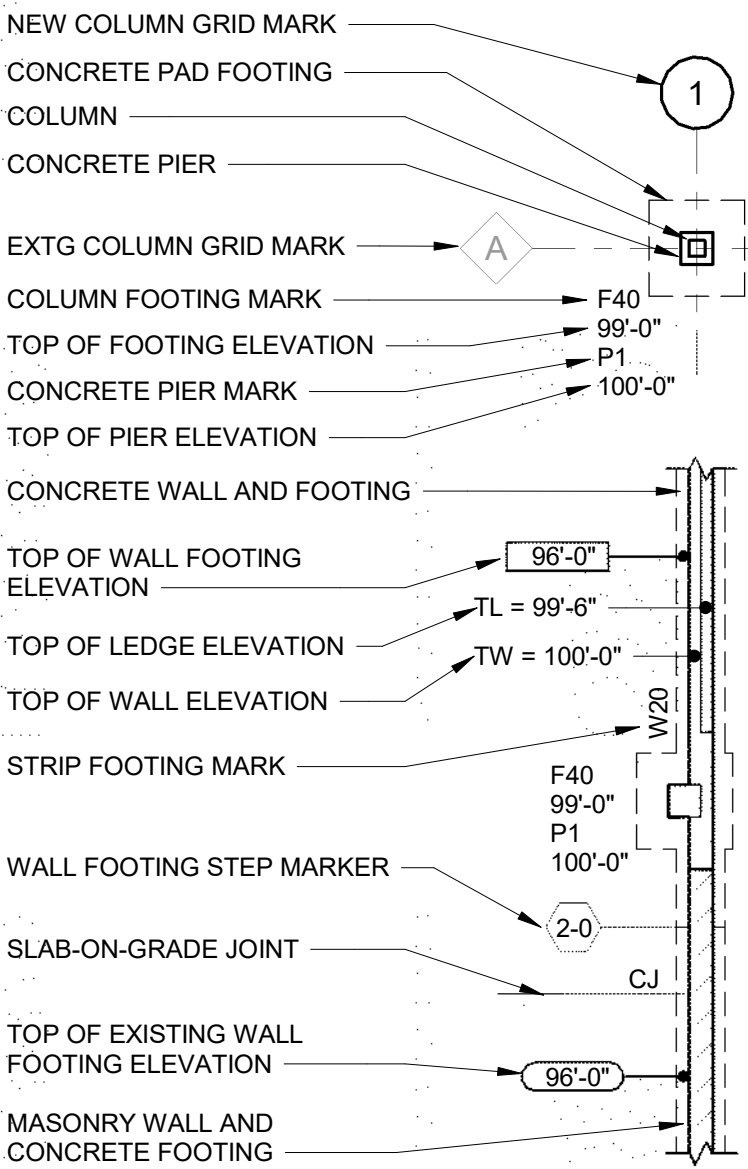
BASE PLATE TYPES:



ABBREVIATION LIST

AB	ANCHOR BOLT (ROD)
AHU	AIR HANDLING UNIT
ALT	ALTERNATE
ARCH	ARCHITECTURAL
BLDG	BUILDING
BRG	BEARING
BP(##)	BASE PLATE CALL-OUT
CF	COLD-FORMED
CIP	CAST-IN-PLACE
CJ	CONTROL JOINT
CL	CENTER LINE
CLR	CLEAR (DISTANCE)
CMU	CONCRETE MASONRY UNIT
COL	COLUMN
CONC	CONCRETE
CONT	CONTINUOUS
DBA	DEFORMED BAR ANCHOR
DEMO	DEMOLITION / DEMOLISH
DIA	DIAMETER
DWG	DRAWING
EOD	EDGE OF DECK
EOS	EDGE OF SLAB
EF	EACH FACE
EJ	EXPANSION JOINT
ELEV	ELEVATION
EQ	EQUAL
EW	EACH WAY
EWEF	EACH WAY EACH FACE
EXP	EXPANSION
EXT	EXTERIOR
EXTG	EXISTING
FD	FLOOR DRAIN
FLR	FLOOR
FV	FIELD VERIFY
F(##)	FOOTING CALL-OUT
GA	GAUGE
GALV	GALVANIZED
GC	GENERAL CONTRACTOR
GLULAM	GLUE-LAMINATED BEAM(S)
HK	HOOK
HORIZ	HORIZONTAL
HP	HIGH POINT
HWS	HEADED WELDED STUD(S)
IF	INSIDE FACE
INT	INTERIOR
JBE	JOIST BEARING ELEVATION
LLH	LONG LEG HORIZONTAL
LLV	LONG LEG VERTICAL
LSL	LAMINATED STRAND LUMBER
LTWT	LIGHTWEIGHT
LVL	LAMINATED VENEER LUMBER
LW	LONG WAY
MAX	MAXIMUM
MECH	MECHANICAL
MFR	MANUFACTURER
MIN	MINIMUM
MISC	MISCELLANEOUS
NA	NOT APPLICABLE
NTS	NOT TO SCALE
OC	ON CENTER
OF	OUTSIDE FACE
OPNG	OPENING
OPP	OPPOSITE
PC	PRECAST / PRESTRESSED
PCI	POUNDS PER CUBIC INCH
PDF	POUNDS PER CUBIC FOOT
PL	PLATE
PLF	POUNDS PER LINEAR FOOT
PROJ	PROJECTION
PSF	POUNDS PER CUBIC FOOT
PSI	POUNDS PER SQUARE INCH
PT	PRE (POST) -TENSIONED
P(##)	PIER CALL-OUT
RD	ROOF DRAIN
REINF	REINFORC(ED)(ING)
RTU	ROOF TOP UNIT
SIM	SIMILAR
SOG	SLAB-ON-GRADE
SPA	SPAC(ES)(ED)(ING)
SPEC	SPECIFICATION(S)
SQ	SQUARE
SS	STAINLESS STEEL
SW	SHORT WAY
TL	TOP OF LEDGE
TP	TOP OF PIER
TW	TOP OF WALL
TYP	TYPICAL
UNO	UNLESS NOTED OTHERWISE
VERT	VERTICAL
WP	WORKING POINT
WWF	WELDED WIRE FABRIC

FOUNDATION LEGEND



NORTH FISH HATCHERY HUB

Traceway Dr., Fitchburg

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FOUNDATION PLAN

S100

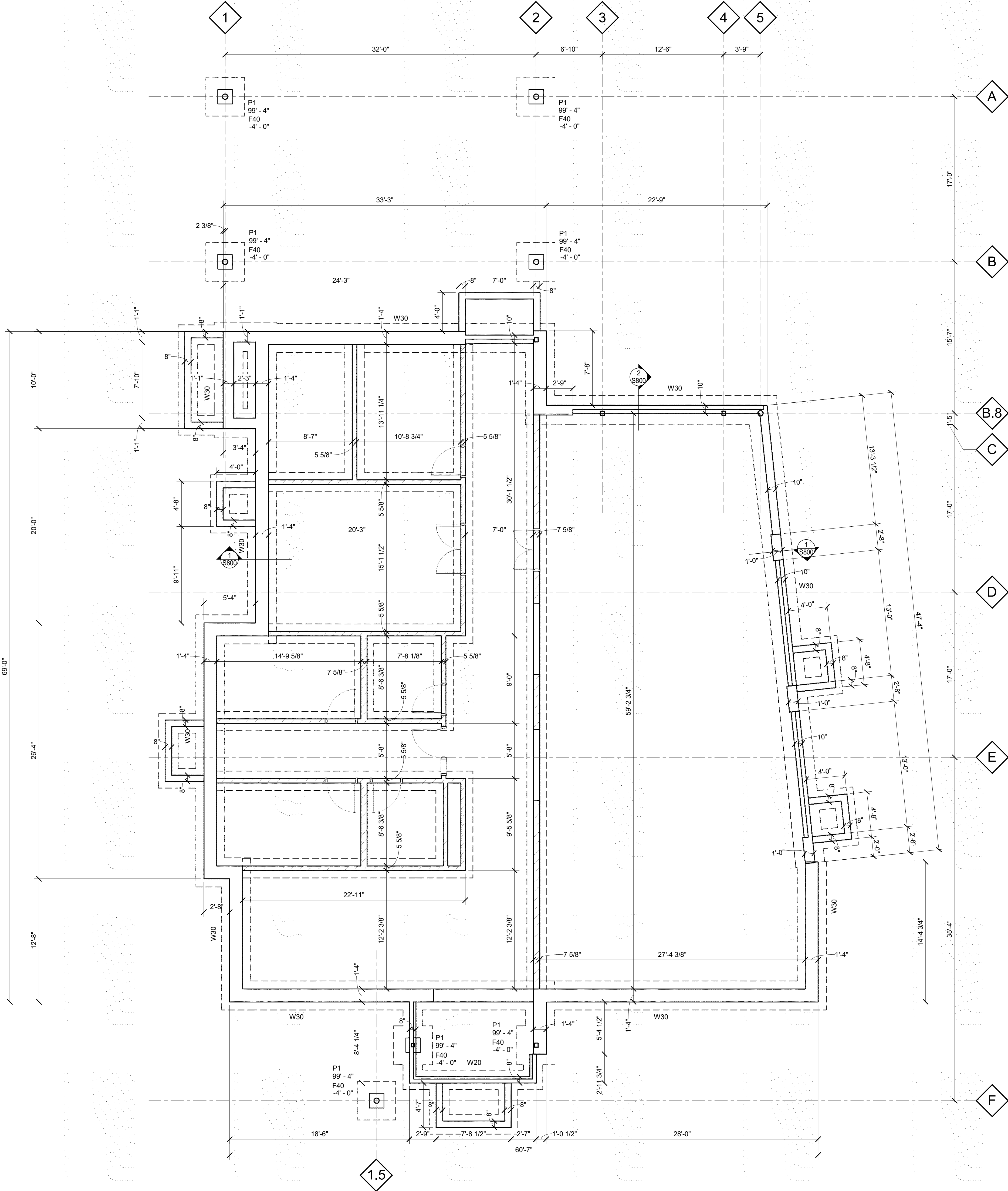
1 FOUNDATION PLAN

SCALE: 3/16" = 1'-0"

0 2 4 8 12

NOTES:

- SEE S800 FOR TYPICAL DETAILS AND S001 FOR DESIGN CRITERIA.
- TYPICAL WHERE SLAB ABUTS COLUMN OR WALL, PROVIDE 1/2" x SLAB WIDTH ISOLATION FILLER STRIP. SET STRIP 1/4" BELOW FINISHED SLAB ELEVATION.
- AVOID SITUATIONS WHERE CONTROL JOINTS ARE DISCONTINUOUS ACROSS AN ADJACENT JOINT BUT WHERE ABSOLUTELY NECESSARY, PROVIDE (2) #4 x 5'-0" LONG BARS IN UNBROKEN SLAB AT THIS T-INTERSECTION WITH THE UNDERSTANDING THAT BARS WILL LIMIT CRACK WIDTH BUT NOT PREVENT IT.
- AT RE-ENTRANT CORNERS THAT DO NOT HAVE CONTROL JOINTS (E.G. STAIRS, ELEVATORS, LOADING DOCKS, ETC.) (2) #4 x 5'-0" LONG BARS CENTERED IN SLAB, DIAGONAL TO CORNER PROVIDED.
- REQUIRED MINIMUM ALLOWABLE SOIL BEARING PRESSURE = 3000 PSF AT SLAB-ON-GRADE.
- SLAB-ON-GRADE TO BE 4" THICK WITH SYNTHETIC MACRO-FIBERS AT A DOSAGERATE OF 4 LB/CY ON 15 MIL. VAPOR RETARDER ON 6" COMPACTED GRANULAR BASE.



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LOW ROOF FRAMING
PLAN

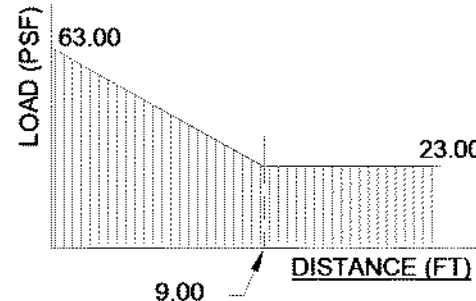
S101

1 LOW ROOF FRAMING PLAN
SCALE: 3/16" = 1'-0"

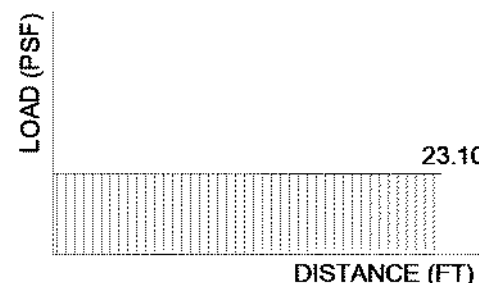
BEAM & HEADER SCHEDULE			
MARK	SIZE	MATERIAL	BEARING (EA. END) MATCH BEARING WALL GRADE UNO
S1	8.75" x 18"	GLB - BEAM	(4) 2x6 SPF #2
S2	5.5"x11.25"	GLB - BEAM	5.5"x11.25" / (3) 2x6
~~S3~~	~~5.5"x9.25"~~	~~GLB - BEAM~~	~~5.5"x9.25" / (3) 2x6~~
S4	(2) 1 3/4" x 9 1/4"	LVL - HEADER	4K / 1S
SS	(4) 2 X 12		
ML1	8"x16" BOND BEAM W/ (2) #5 CONT	MASONRY	
ML2	W16x26 WITH 3/8" CONT BOTTOM PL	STEEL	
ML3	6"x16" BOND BEAM W/ (1) #6 CONT	MASONRY	

NOTES:

- GENERAL NOTES APPLY TO ALL SHEETS. SEE SHEET S001.
- SECURE ROOF TRUSSES AT EACH BEARING WITH SIMPSON H2.5T MIN.
- TRUSS SUPPLIER SHALL DESIGN AND SUPPLY ALL TRUSS TO TRUSS AND TRUSS TO BEARING CONDITIONS FOR BOTH GRAVITY AND UPLIFT CONDITIONS.
- ROOF TRUSSES ARE DESIGNED BY OTHERS VERIFY ROOF TRUSS SPACING WITH TRUSS DESIGNER



SNOW DRIFTING SD2



FLAT ROOF SNOW LOAD

ROOF FRAMING PLAN NOTES

ROOF LIVE LOAD
GROUND SNOW LOAD
SLOPED ROOF SNOW LOAD

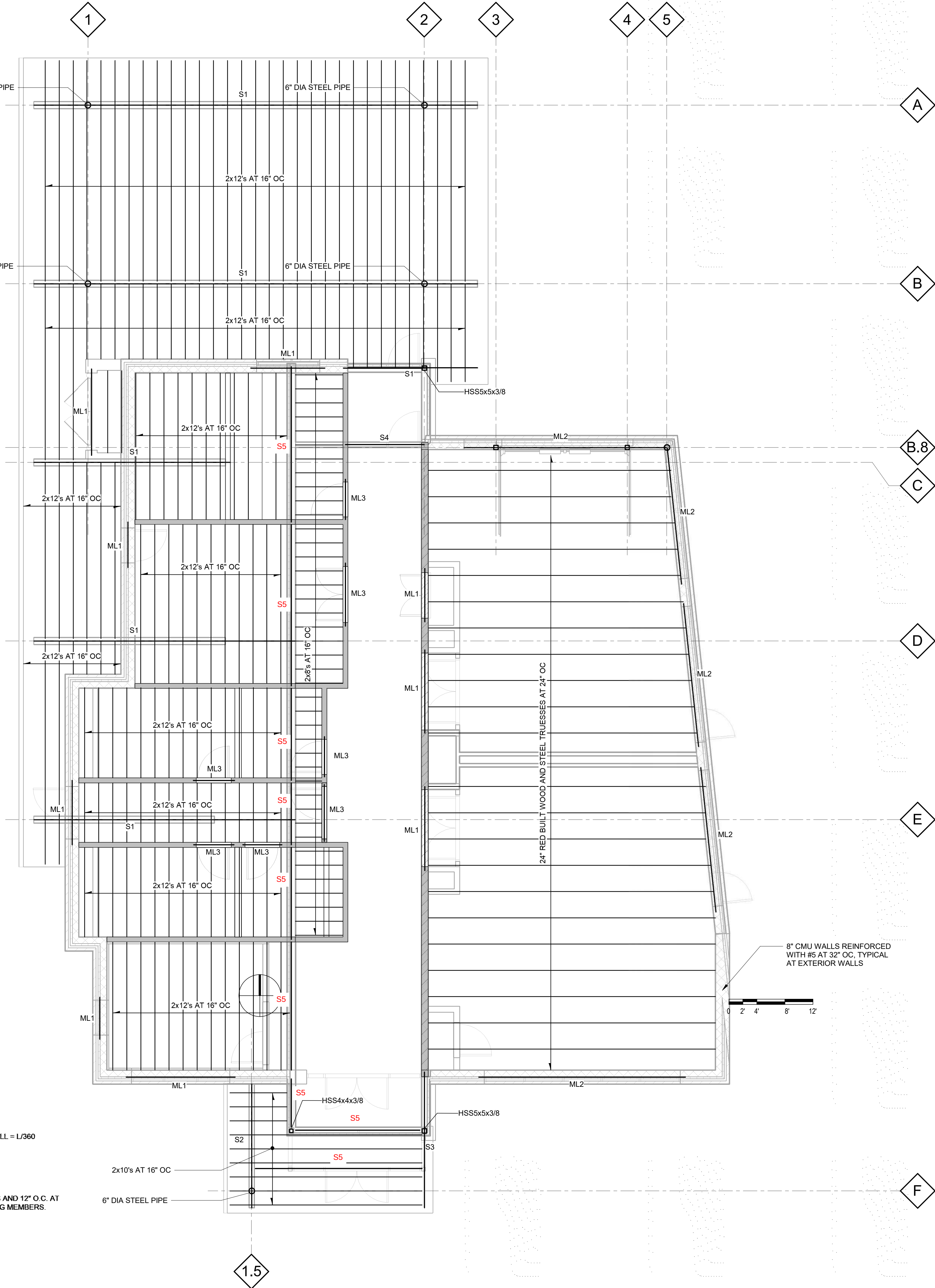
FLAT ROOF SNOW LOAD
SNOW EXPOSURE FACTOR
SNOW LOAD IMPORTANCE FACTOR
THERMAL FACTOR
DEFLECTION CRITERIA:

STRUCTURAL ROOF PANELS
SPAN RATING:
NOMINAL THICKNESS:
EXPOSURE RATING:
GRADE:
NAILING:

20.0 psf
30.0 psf
23.10 psf

23.1
1.0
1.1
DL+LL = L/240 LL = L/360

24/16
5/8
EXP 1
OSB SHEATHING
8D AT 6" O.C. AT EDGES AND 12" O.C. AT
INTERMEDIATE FRAMING MEMBERS.



NORTH FISH HATCHERY
HUB

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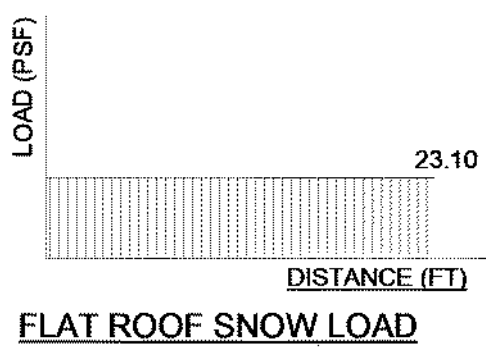
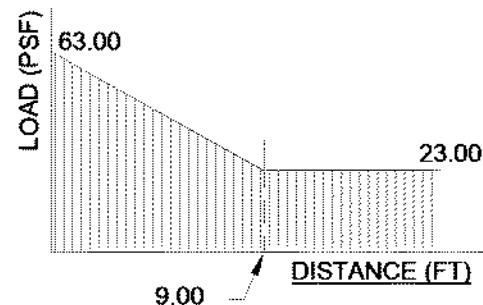
HIGH ROOF FRAMING
PLAN

1 HIGH ROOF PLAN
SCALE: 3/16" = 1'-0"

BEAM & HEADER SCHEDULE			
MARK	SIZE	MATERIAL	BEARING (EA. END) MATCH BEARING WALL GRADE UNO
S1	8.75" x 18"	GLB - BEAM	(4) 2x6 SPF #2
S2	5.5"x11.25"	GLB - BEAM	5.5"x11.25" / (3) 2x6
~~S3~~	~~5.5"x9.25"~~	~~GLB - BEAM~~	~~5.5"x9.25" / (3) 2x6~~
S4	(2) 1 3/4" x 9 1/4"	LVL - HEADER	4K / 1S
S5	(4) 2 X 12		
ML1	8"x16" BOND BEAM W/ (2) #5 CONT	MASONRY	
ML2	W16x26 WITH 3/8" CONT BOTTOM PL	STEEL	
ML3	6"x16" BOND BEAM W/ (1) #6 CONT	MASONRY	

NOTES:

- GENERAL NOTES APPLY TO ALL SHEETS. SEE SHEET S001.
- SECURE ROOF TRUSSES AT EACH BEARING WITH SIMPSON H2.5T MIN.
- TRUSS SUPPLIER SHALL DESIGN AND SUPPLY ALL TRUSS TO TRUSS AND TRUSS TO BEARING CONDITIONS FOR BOTH GRAVITY AND UPLIFT CONDITIONS.
- ROOF TRUSSES ARE DESIGNED BY OTHERS VERIFY ROOF TRUSS SPACING WITH TRUSS DESIGNER



ROOF FRAMING PLAN NOTES

ROOF LIVE LOAD
GROUND SNOW LOAD
SLOPED ROOF SNOW LOAD

FLAT ROOF SNOW LOAD
SNOW EXPOSURE FACTOR
SNOW LOAD IMPORTANCE FACTOR
THERMAL FACTOR
DEFLECTION CRITERIA:

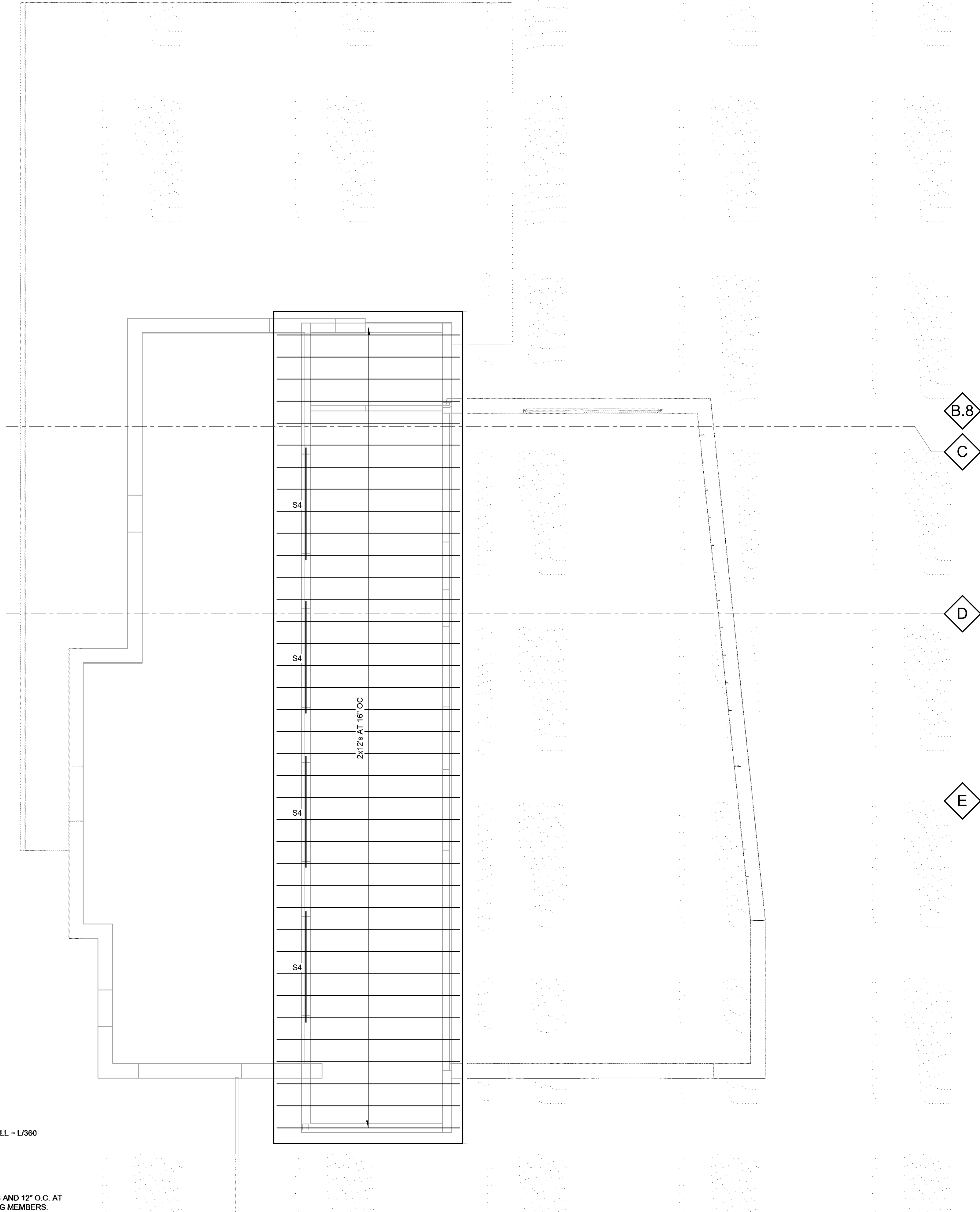
STRUCTURAL ROOF PANELS

SPAN RATING:
NOMINAL THICKNESS:
EXPOSURE RATING:
GRADE:
NAILING:

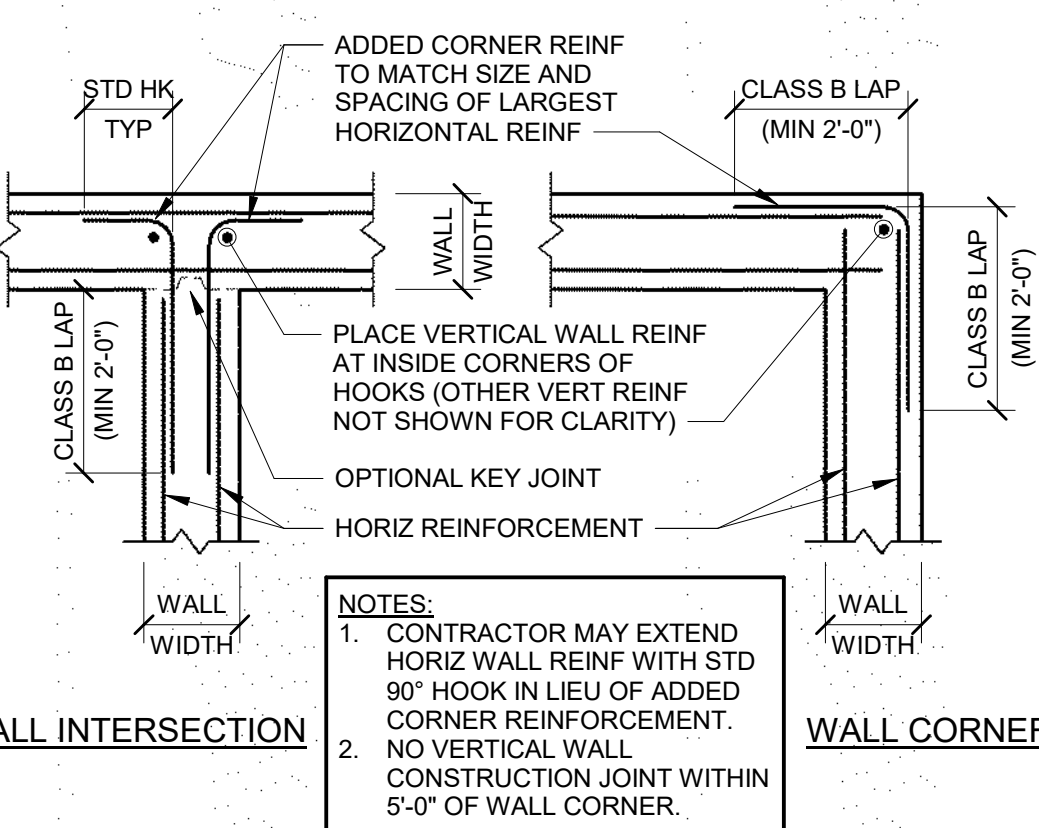
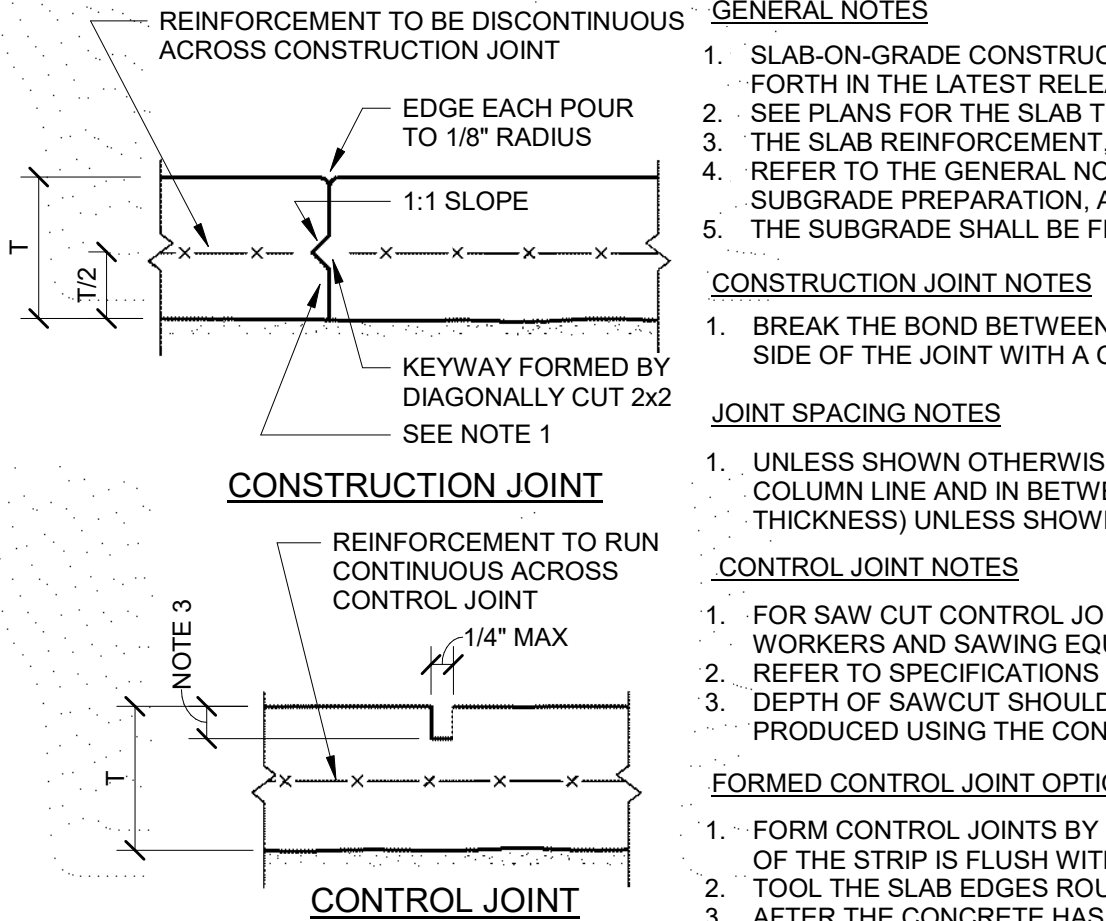
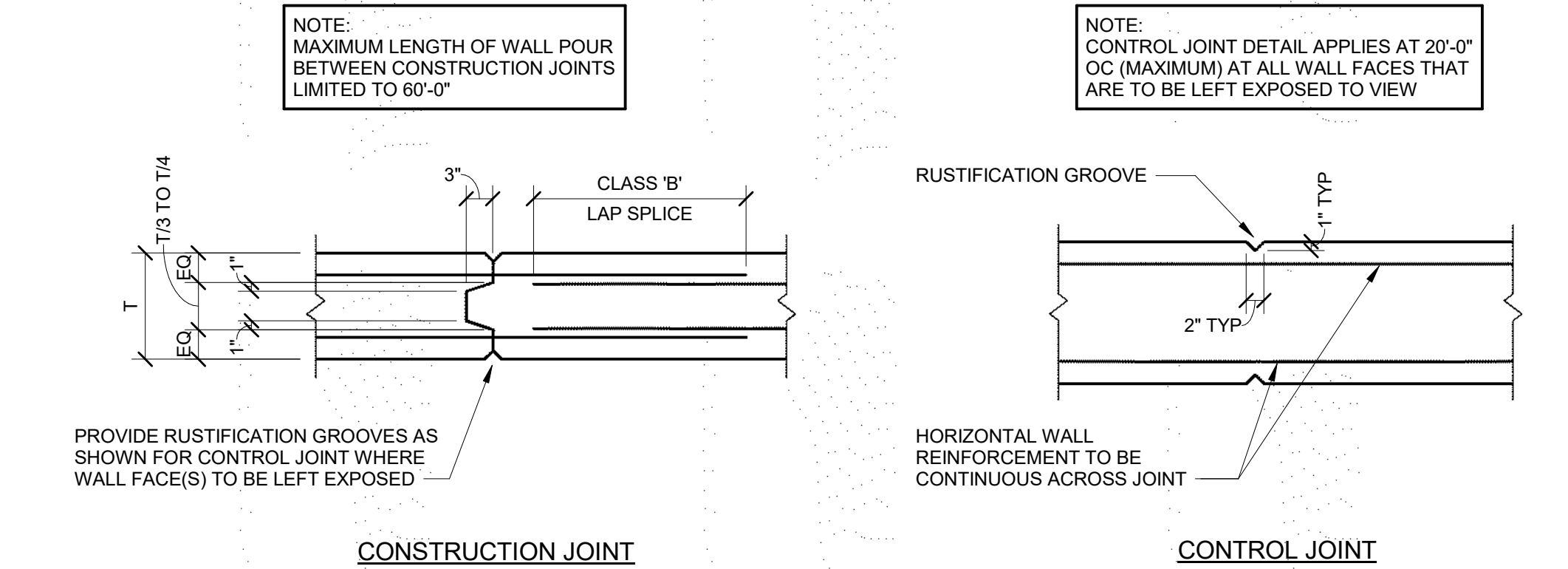
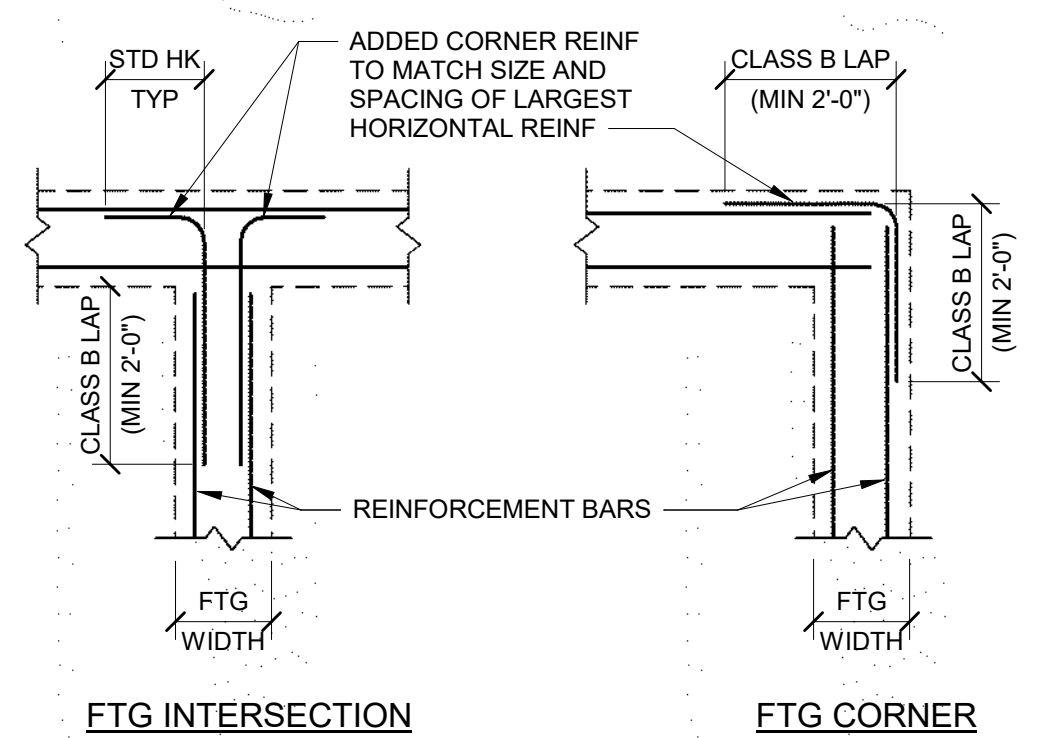
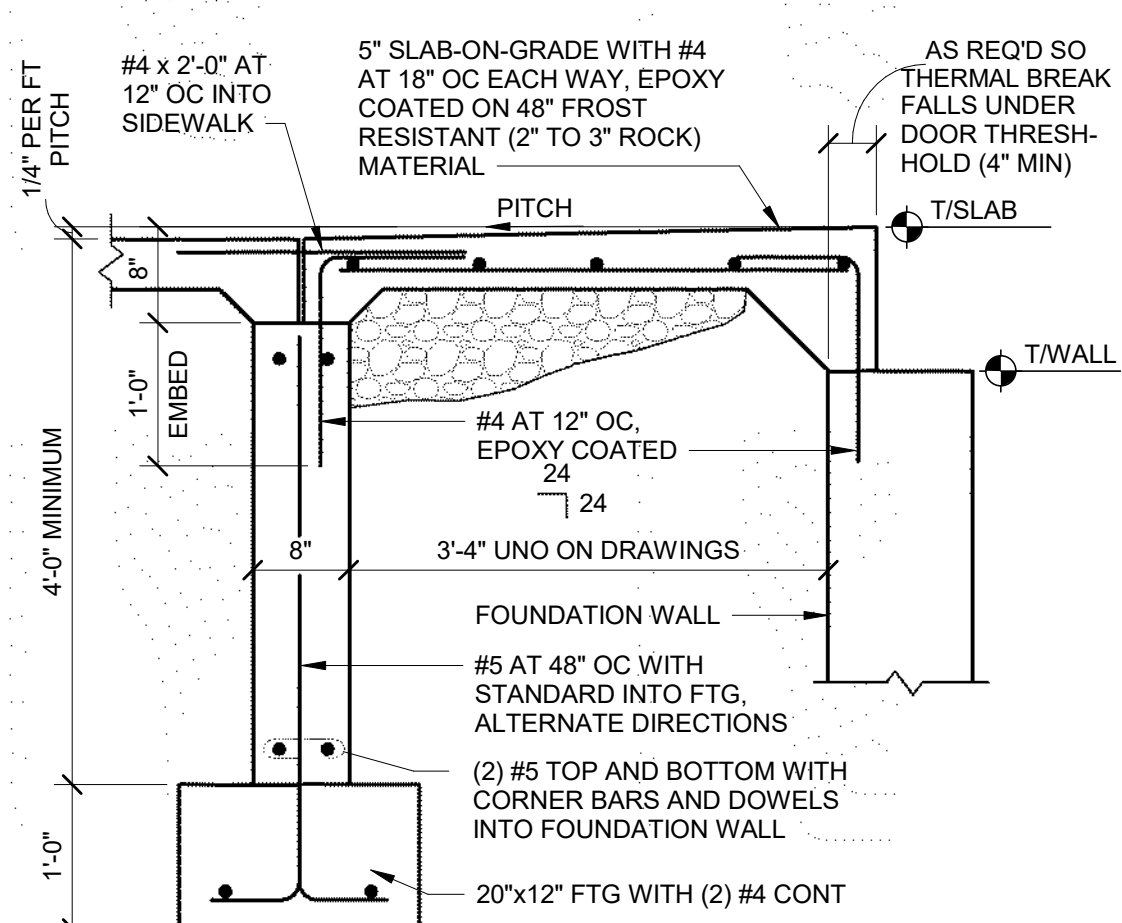
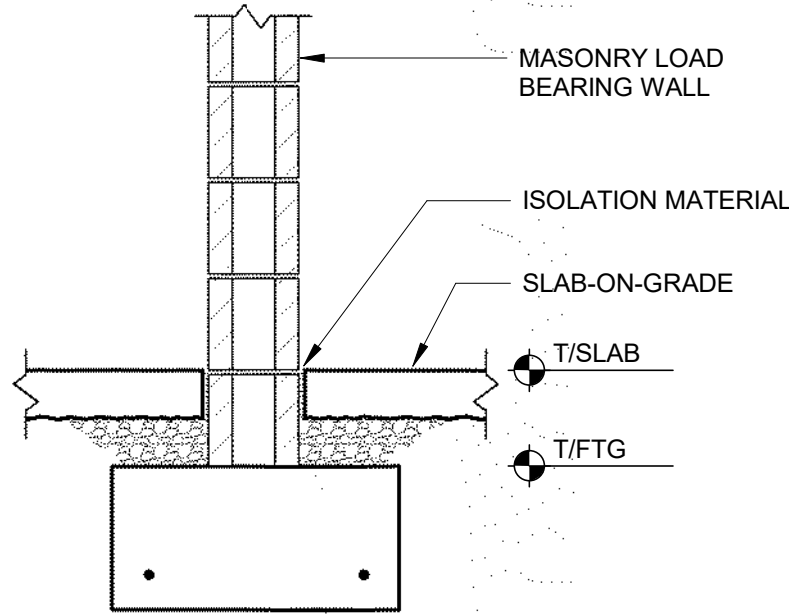
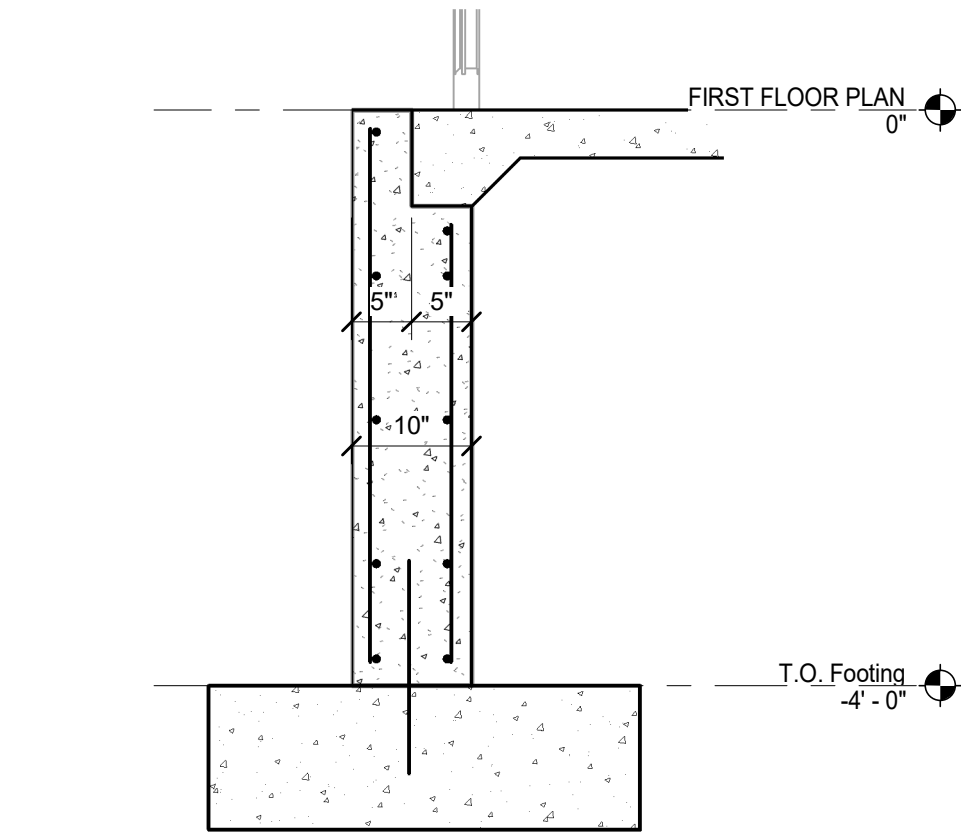
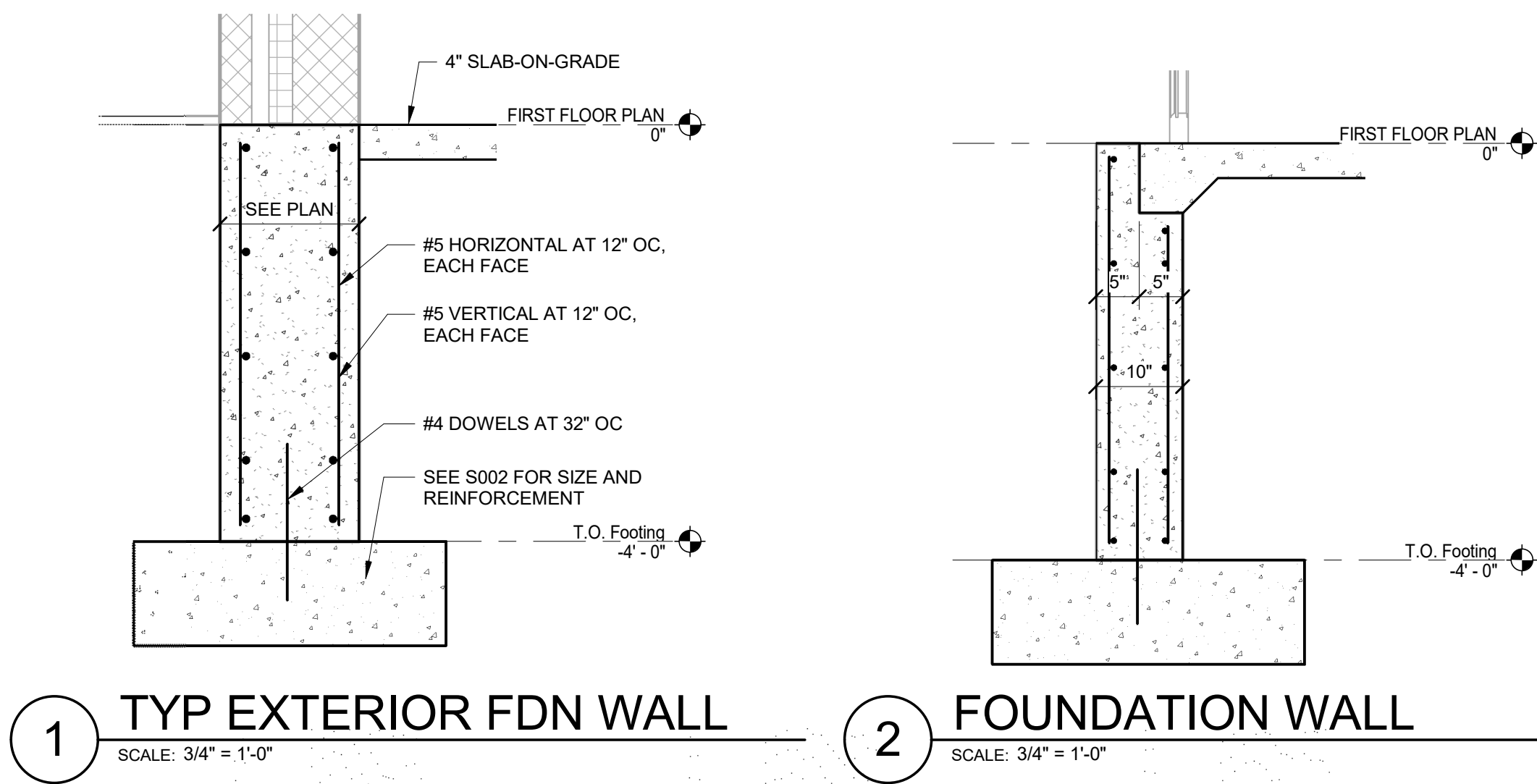
20.0 psf
30.0 psf
23.10 psf

23.1
1.0
1.0
1.1
DL+LL = L/240 LL = L/360

24/16
5/8
EXP 1
OSB SHEATHING
9D AT 6" O.C. AT EDGES AND 12" O.C. AT
INTERMEDIATE FRAMING MEMBERS.



S102



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HUB

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STRUCTURAL DETAILS

S800

NORTH FISH HATCHERY
HUB

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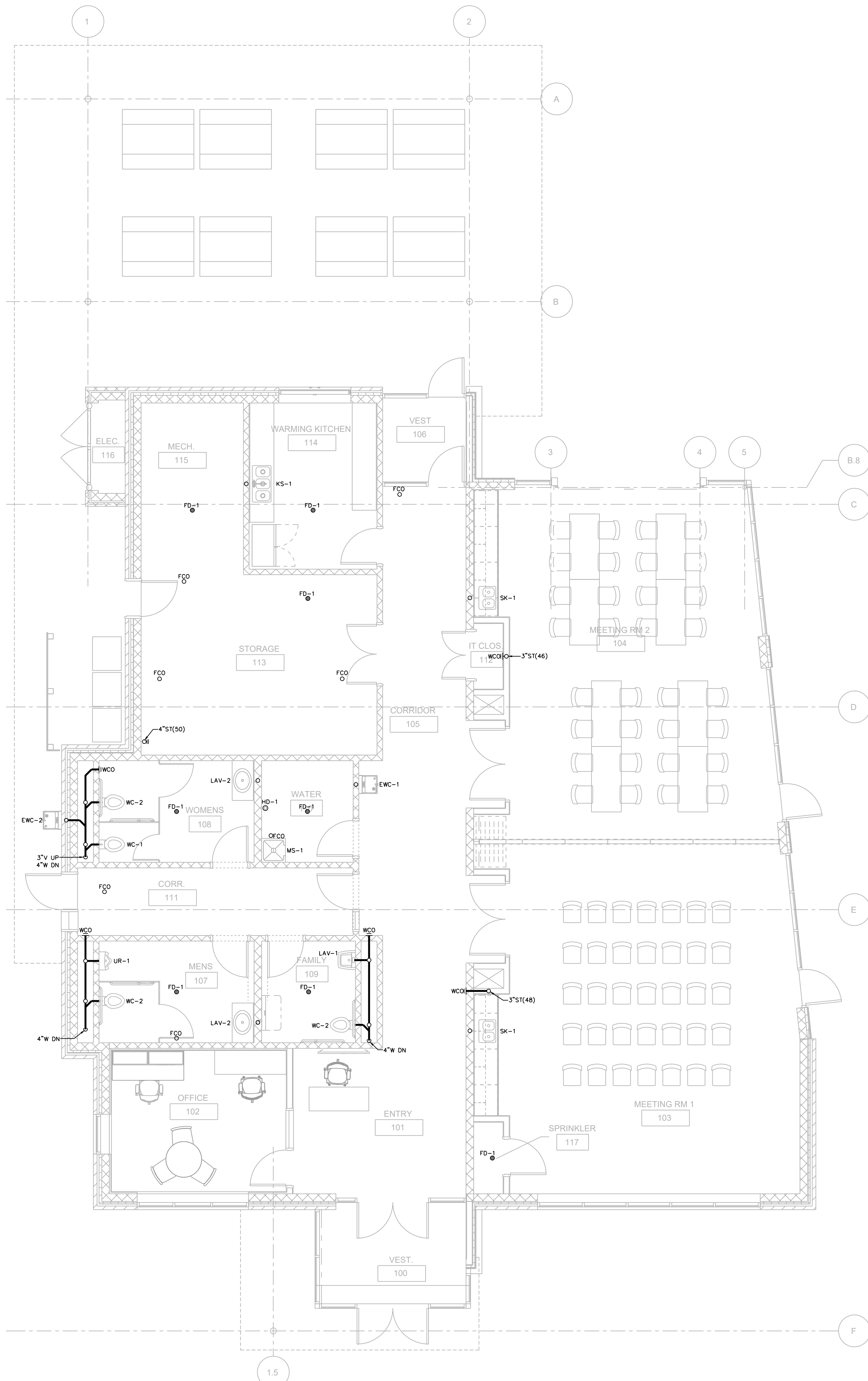
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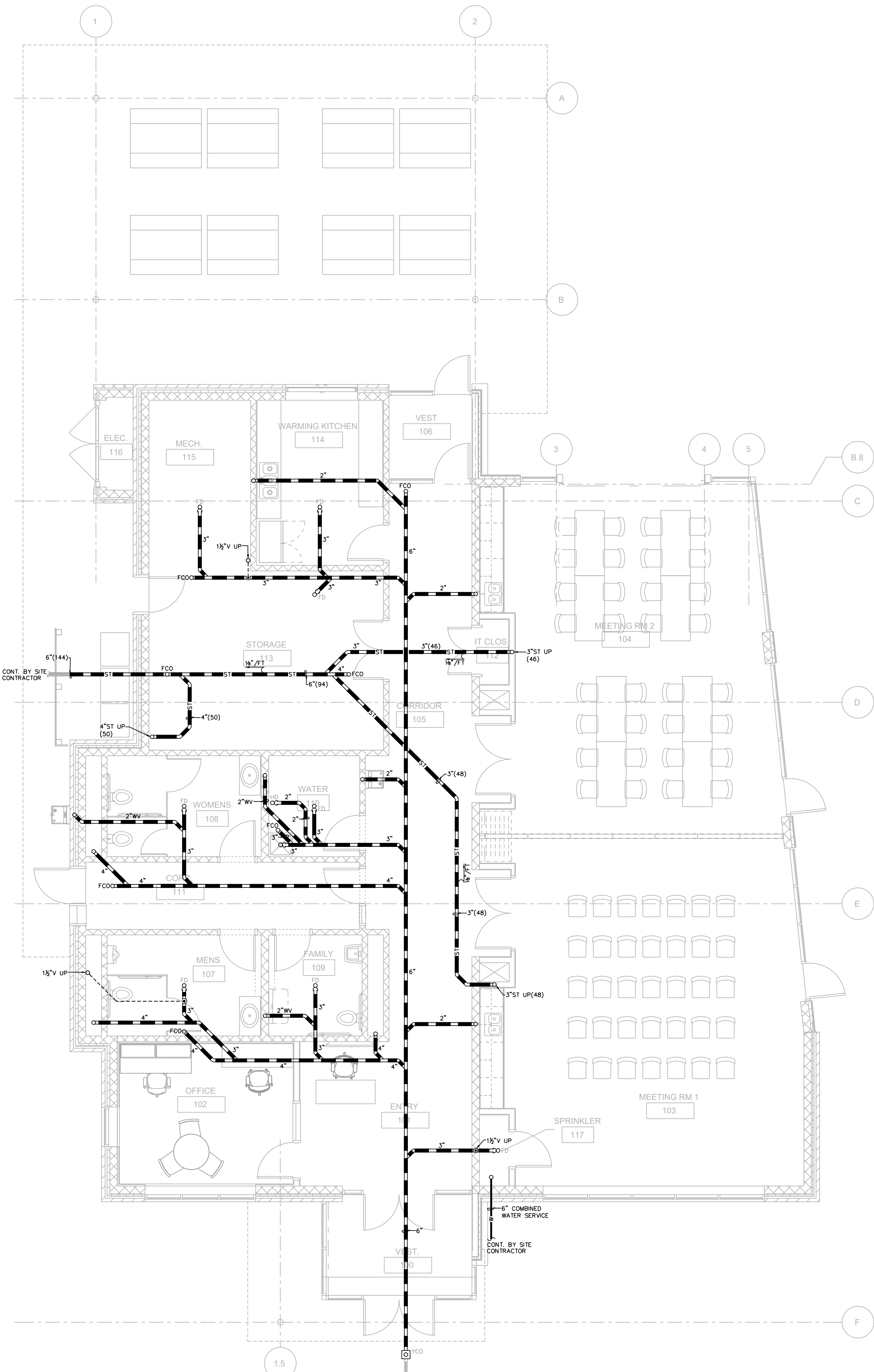
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FIRST FLOOR PLAN -
PLUMBING

P100



2 FIRST FLOOR PLAN - PLUMBING ABOVE FLOOR WASTE & STORM PIPING
3/16" = 1'-0"



1 FIRST FLOOR PLAN - UNDERGROUND PLUMBING
3/16" = 1'-0"

NORTH FISH HATCHERY
HUB

Traceway Dr., Fitchburg

City of Fitchburg
5520 Lacy Rd.
Fitchburg, Wisconsin 53711-5318

PROJECT NUMBER 203283.00

ISSUED FOR:

DD PRICING 10-28-22

REVISION FOR:

NO. DESCRIPTION DATE

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FOR CONSTRUCTION

DRAWN BY JR

CHECKED BY MH

FIRST FLOOR PLAN -
PLUMBING

P101

PLUMBING SYMBOL SCHEDULE

SYMBOL	DESCRIPTION
	WASTE BELOW GROUND
	WASTE ABOVE GROUND
	WATER SERVICE
	COLD WATER
	HOT WATER
	VENT
	UNDERGROUND VENT
	GAS LINE
	PIPE UP
	PIPE DOWN
	CLEAN OUT
	BALL VALVE
	CHECK VALVE
	UNION
	GAS VALVE
YCO	YARD CLEAN OUT
FCO	FLOOR CLEAN OUT
WCO	WALL CLEAN OUT
CV	CIRCUIT VENT
WH	WALL HYDRANT
VTR	VENT THROUGH ROOF
FD	FLOOR DRAIN
HD	HUB DRAIN
RV	RELIEF VENT
UG	UNDERGROUND
UV	UNDERGROUND VENT
WHA	WATER HAMMER ARRESTOR
WV	WET VENT
WVR	WASTE & VENT RISER

3 ENLARGED PLAN - WATER PIPING WATER 110
3/8" = 1'-0"

4 ENLARGED PLAN - WATER PIPING STORAGE 113
3/8" = 1'-0"

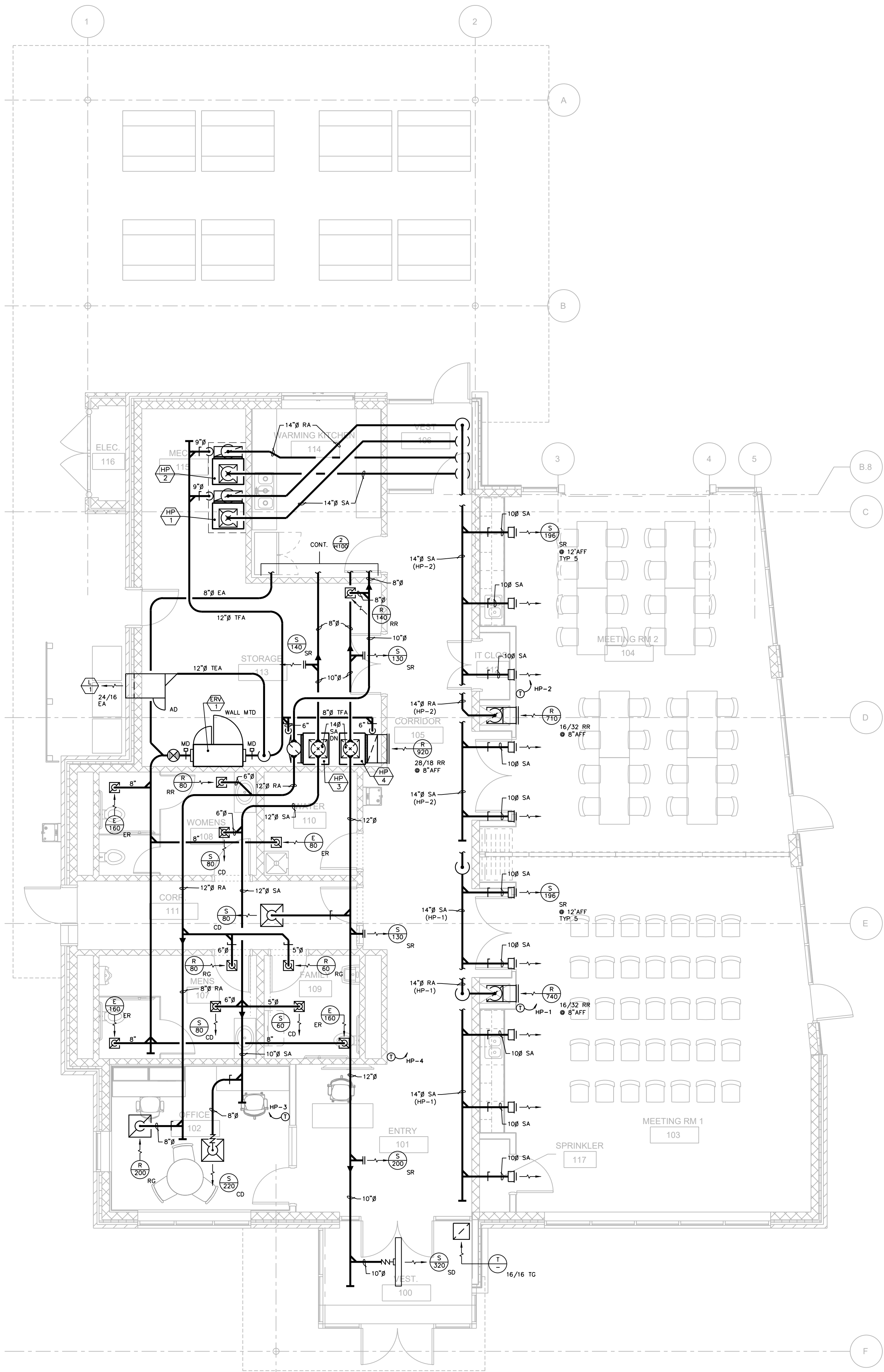
DIVISION 21 - FIRE PROTECTION SYSTEM

A. Fire Protection System Description:

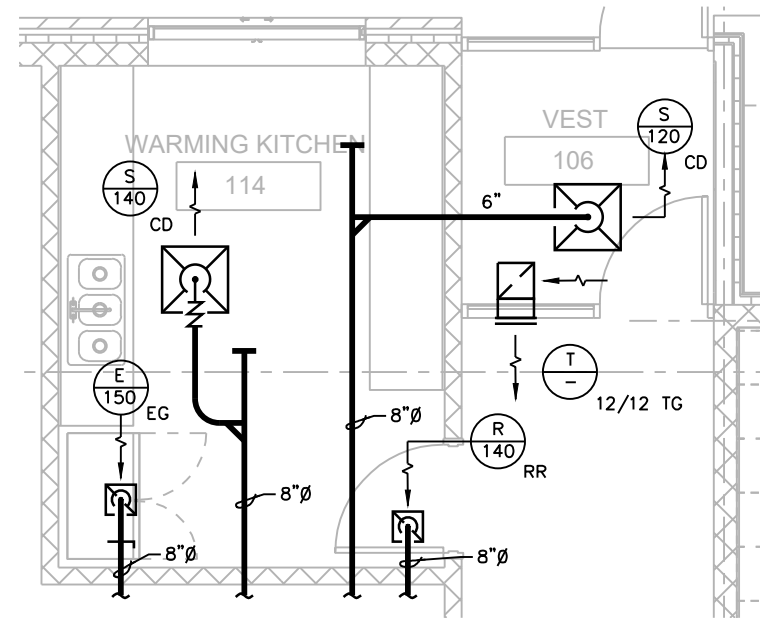
- New 6" combined water-fire protection line to be extended to new facility.
- New fire protection riser will be provided with wet sprinkler system and dry sprinkler system for the unheated canopy.
- All components will be supervised and alarmed by the fire alarm system provided by the Electrical Contractor.

2 FIRST FLOOR PLAN - PLUMBING WATER PIPING
3/16" = 1'-0"

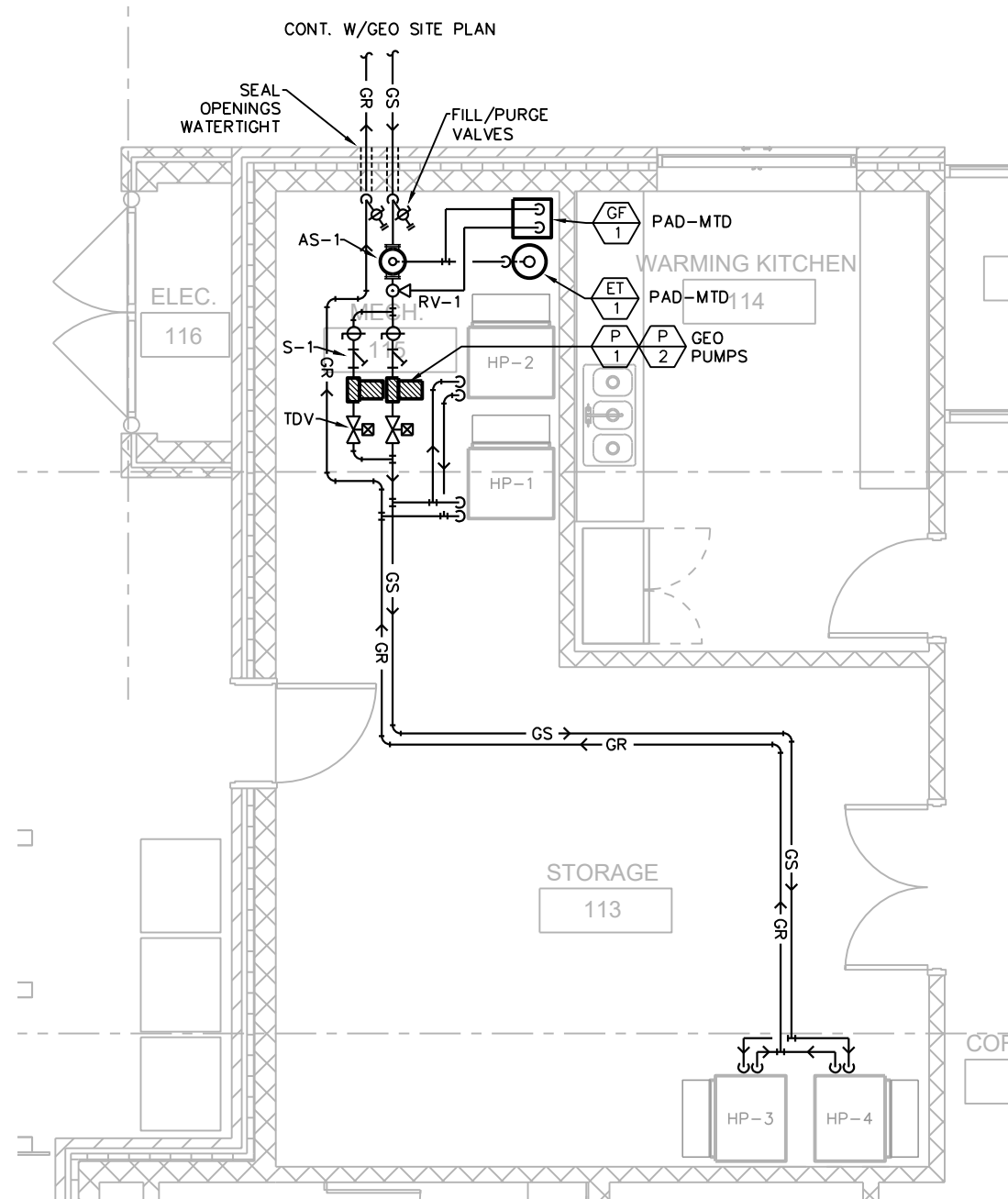
1 FIRST FLOOR PLAN - PLUMBING ABOVE FLOOR VENTING & STORM PIPING
3/16" = 1'-0"



1 FIRST FLOOR PLAN - HVAC
3/16" = 1'-0"

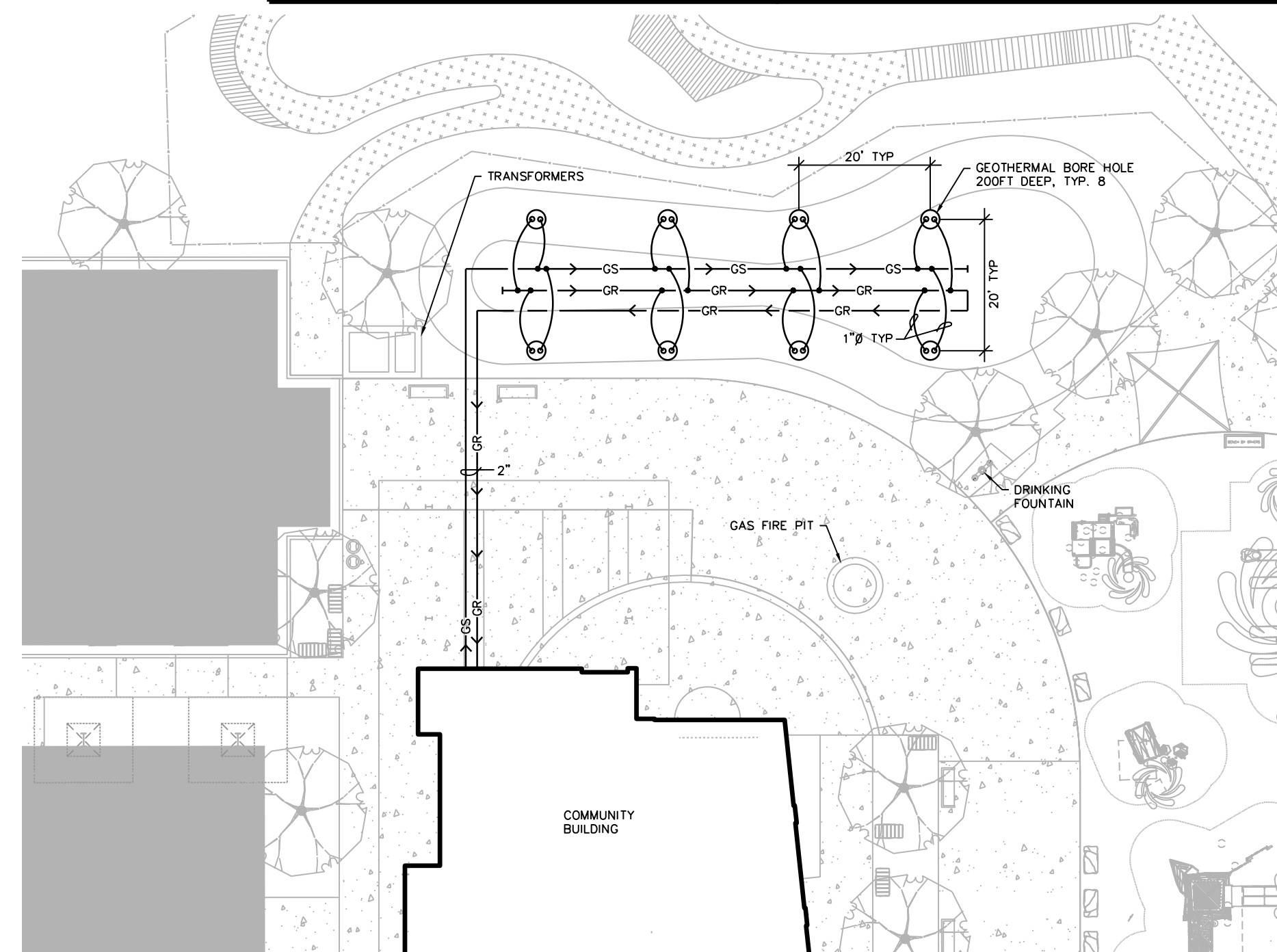


2 FIRST FLOOR PLAN - LOWER DUCTWORK
3/16" = 1'-0"



3 GEOTHERMAL PIPING - HVAC
3/16" = 1'-0"

HVAC SYMBOL SCHEDULE			
SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
PIPING			
HWS	HOT WATER SUPPLY	[Symbol]	SQUARE/RECTANGULAR SUPPLY DIFFUSER, GRILLE OR REGISTER-HORIZONTAL MOUNT
HWR	HOT WATER RETURN	[Symbol]	SQUARE/RECTANGULAR RETURN/EXHAUST REGISTER OR GRILLE-HORIZONTAL MOUNT
GS	GEOTHERMAL SUPPLY	[Symbol]	SUPPLY REGISTER OR GRILLE VERT. MOUNT
GR	GEOTHERMAL RETURN	[Symbol]	RETURN/EXHAUST REGISTER OR GRILLE VERT. MOUNT
C	CONDENSATE PIPING	[Symbol]	SLOT SUPPLY DIFFUSER
R	REFRIGERANT PIPING	[Symbol]	VERTICAL SUPPLY DUCT UP
RS	REFRIGERANT SUCTION	[Symbol]	VERTICAL RETURN/EXHAUST DUCT UP
RL	REFRIGERANT LIQUID	[Symbol]	VERTICAL SUPPLY DUCT DOWN
UP	PIPE UP	[Symbol]	VERTICAL RETURN/EXHAUST DUCT DOWN
DN	PIPE DOWN	[Symbol]	VOLUME DAMPER
[Symbol]	GATE VALVE	[Symbol]	FIRE DAMPER W/ACCESS PANEL
[Symbol]	GLOBE VALVE	[Symbol]	MOTORIZED BACKDRAFT DAMPER
[Symbol]	BALL VALVE	[Symbol]	GRAVITY BACKDRAFT DAMPER
[Symbol]	BUTTERFLY VALVE	[Symbol]	AUTOMATIC CONTROL DAMPER
[Symbol]	PRESSURE RELIEF VALVE	[Symbol]	FLEXIBLE CONNECTION
[Symbol]	DRAIN VALVE	[Symbol]	ROUND/FLEXIBLE DUCT
[Symbol]	SWING OR LIFT CHECK VALVE	[Symbol]	ROUND RIGID DUCT
[Symbol]	BALANCE VALVE	[Symbol]	SQUARE ELBOW W/TURNING VANES
[Symbol]	CALIBRATED BALANCING VALVE	[Symbol]	RADIUS ELBOW R/D = 1.5
[Symbol]	GAUGE VALVE	[Symbol]	RADIUS TAKEOFF R/D = 1.5 "X"=TAKE-OFF WIDTH
[Symbol]	INLINE STRAINER	[Symbol]	DUCT RISE(R) OR DROP(D)
[Symbol]	UNION	[Symbol]	DIFFUSER/REGISTER/GRILLE
[Symbol]	END CAP OR BLIND FLANGE	[Symbol]	TYPE CFM
[Symbol]	THERMOMETER	[Symbol]	EXHAUST CFM
[Symbol]	PRESSURE GAUGE w/VALVE	[Symbol]	EQUIPMENT SYMBOL NO.
[Symbol]	FLEXIBLE CONNECTION	[Symbol]	THERMOSTAT SENSOR
[Symbol]	ANCHOR	[Symbol]	CARBON MONOXIDE SENSOR
[Symbol]	T & P TEST WELL	[Symbol]	TEMPERATURE SENSOR
[Symbol]	AIR VENT	EQUIPMENT SYMBOLS	
[Symbol]	A = AUTOMATIC	AS	AIR SEPARATOR
[Symbol]	M = MANUAL	BT	BUFFER TANK
[Symbol]	VACUUM BREAKER	EH	ELECTRIC HEAT
[Symbol]	REDUCER, CONCENTRIC	EF	EXHAUST FAN
[Symbol]	REDUCER, ECCENTRIC	ET	EXPANSION TANK
[Symbol]	IMMERSION WELL	ERV	ENERGY RECOVERY VENTILATOR
ABBREVIATIONS		FC	FAN COIL
Ø	DIAMETER	HP	HEAT PUMP
ACD	AUTOMATIC CONTROL DAMPER	L	LOUVER
AD	ACCESS DOOR (DUCT)	P	PUMP
AFF	ABOVE FINISHED FLOOR	PRV	PRESSURE REDUCING VALVE
BOD	BOTTOM OF DUCT	RV	SAFETY RELIEF VALVE
EA	EXHAUST AIR	SF	SUPPLY FAN
ER	EXHAUST REGISTER		
FA	FRESH AIR		
OED	OEN ENDED DUCT		
RA	RETURN AIR		
RR	RETURN REGISTER		
SA	SUPPLY AIR		
SR	SUPPLY REGISTER		
TEA	TEMPERED EXHAUST AIR		
TFA	TEMPERED FRESH AIR		
TG	TRANSFER GRILLE		
TD	TRANSFER DUCT		
UC	UNDERCUT DOOR		



4 GEOTHERMAL SITE PLAN
1" = 20'-0"

NORTH FISH HATCHERY HUB

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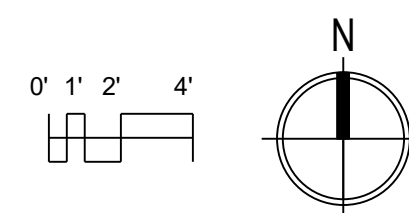
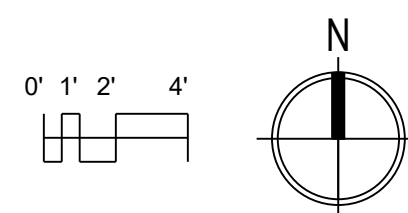
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FIRST FLOOR PLAN -
HVAC

H100



- ◆ ROUTE RADIANT FLOOR PEX PIPING THROUGH PROTECTIVE METAL SLEEVE (SCH 40 PIPE) UNDER INTERIOR WALLS. ROUTE ALL OTHER PEX PIPING THROUGHOUT DOORWAYS.
- ◆ EXTEND REMOTE TEMPERATURE SENSOR INTO SLAB INSIDE ½" EMT ELECTRICAL CONDUIT WITH END PLUGGED.
- ◆ UG PEX PIPING EASED ON UPONOR hePEX ¾".

MILWAUKEE | MADISON | TUCSON | CHICAGO



17 Applegate Court, Suite 200
Madison, WI 53713
Phone: (608) 288-9260
email: hein@heinengrp.com
Project No. H2104

NORTH FISH HATCHERY HUB

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Fitchburg, Wisconsin 53711-5318

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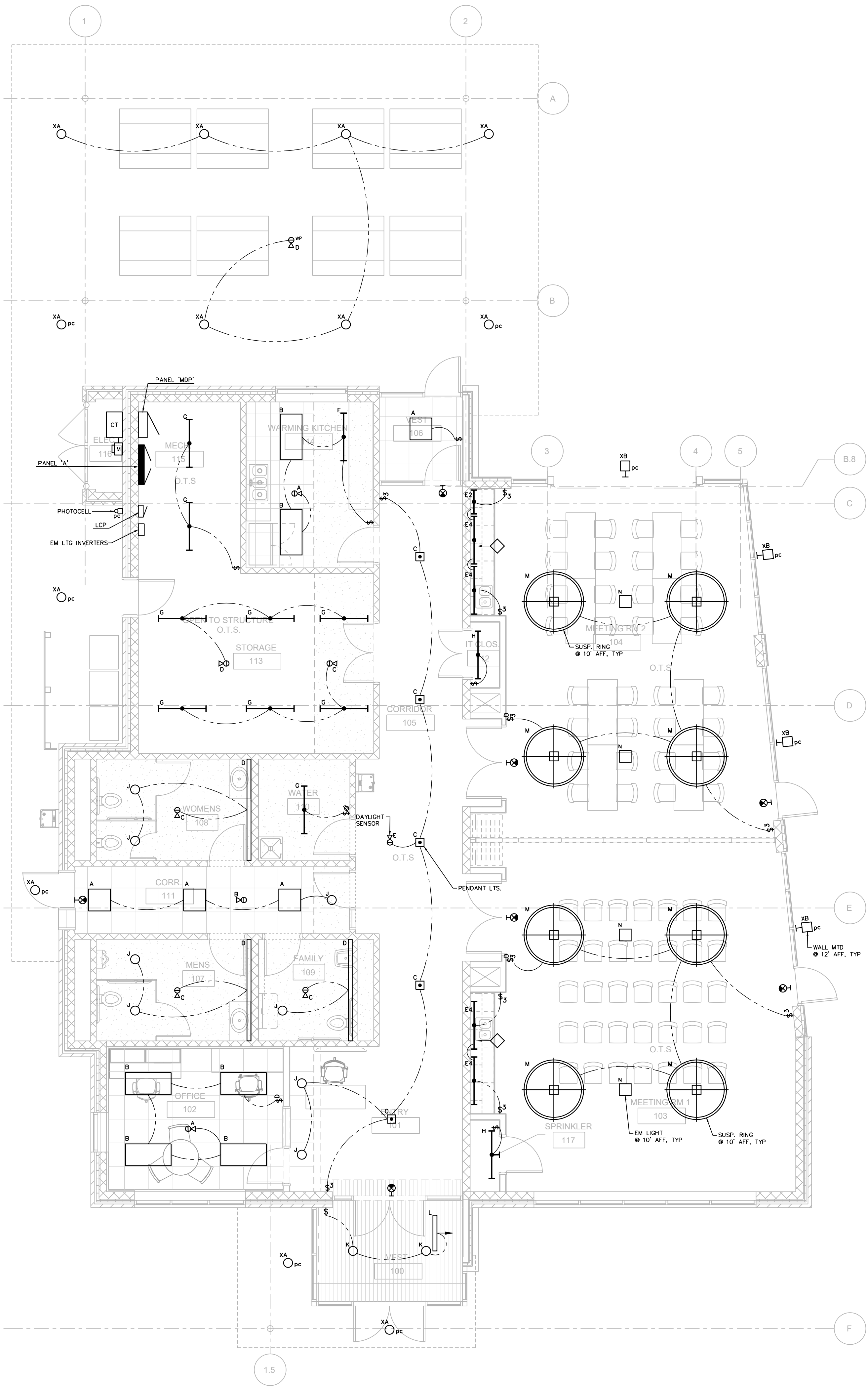
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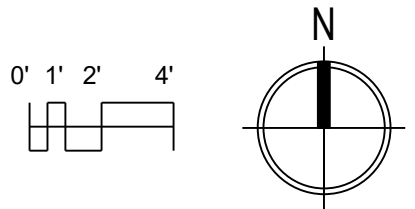
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FIRST FLOOR PLAN - HVAC RADIANT FLOOR PIPING

H101



1 FIRST FLOOR PLAN - ELECTRICAL LIGHTING
3/16" = 1'-0"



ELECTRICAL SYMBOL SCHEDULE					
MOUNTING	SYMBOL	DESCRIPTION	MOUNTING HGT.	SYMBOL	DESCRIPTION
EQUIPMENT AND WIRING			LIGHTING FIXTURES		
		DIRECT EQUIPMENT CONNECTION			LED: SURFACE/PENDANT
		MOTOR CONNECTION-SEE EQUIP. SCHEDULE FOR TYPE, WIRING, ETC.			LED: RECESSED WALL WASHER W/BATTERY BACK-UP
		JUNCTION BOX-CONCEALED IN FINISHED AREAS, SURFACE IN UNFINISHED AREAS			LED: SURFACE WALL-MTD
		FUSE HOLDER W/FUSE/STAT AND TOGGLE SWITCH (1/2 HP MOTORS AND UNDER)			LED: RECESSED WALL-MTD
		SAFETY DISCONNECT SWITCH WITH COVER INTERLOCK-W.P. INDICATES WATERPROOF (NON-FUSED UNLESS INDICATED BY 'F'-FUSED)			LED: RECESSED
		MANUAL STARTER			LED: SURFACE, CEILING MOUNTED
		MOTOR STARTER-MAGNETIC UNLESS NOTED OTHERWISE			LED: SURFACE, WALL MOUNTED
		COMB. MOTOR STARTER/FUSED DISCONNECT			EXIT LIGHT: ARROWS, FACES & MOUNTING AS SHOWN ON DRAWINGS
		ELECTRICAL POWER PANEL			EMERGENCY LIGHT W/ BATTERY PACK: WALL MOUNTED
		DOUBLE TUB ELECTRICAL POWER PANEL			TRACK LIGHTING
		TIME SWITCH		SWITCHES	
		PHOTOCELL	48"		SINGLE POLE
		LINE VOLTAGE T-STAT BY H.C. (CONN. BY E.C.)	48"		THREE WAY
			48"		FOUR WAY
			48"		SWITCH AND DUPLEX RECEPTACLE IN TWO GANG BOX
			48"		SPEED CONTROLLER SWITCH SUPPLIED BY H.C. INSTALLED BY E.C.
			48"		PILOT SWITCH WITH LIGHT
			48"		DIMMING SWITCH
			48"		OCCUPANCY SENSOR CONTROLLED WALL SWITCH
			48"		ELECTRICAL TIMER SWITCH (5-10-15-30 MIN)
			48"		OCCUPANCY SENSOR: WALL OR CEILING MOUNTED
				RECEPTACLES	
			18"		DUPLEX: RECESSED - W.P. INDICATES WATERPROOF
			18"		DUPLEX: RECESSED WITH DUAL PORTS
			18"		DUPLEX: SURFACE MTD
			18"		DUPLEX: TOP HALF SWITCHED
			18"		DUPLEX: SWITCHED
			18"		TWO DUPLEX RECEPTS. IN TWO GANG BOX
			18"		TWO DUPLEX RECEPTS. SURFACE MTD IN TWO GANG BOX
			18"		DUPLEX: W/GROUND FAULT INTERRUPTION PROTECTION
			18"		125V, 2P, 2W SINGLE RECEPTACLE
			18"		250V, 2P, 3W SINGLE RECEPT.- AMPS AS SHOWN ON DRAWINGS
			18"		DUPLEX RECEPT. MOUNTED ABOVE CASEWORK
			18"		DUPLEX RECEPT. MOUNTED IN SPLASH BLOCK
				COMMUNICATION SYSTEMS	
			18"		TELEPHONE OUTLET IN WALL
			18"		QTY VOICE
			18"		DATA OUTLET
			18"		QTY DATA
			18"		VOICE/ DATA OUTLET
			18"		QTY VOICE, DATA
			18"		VOICE/ DATA OUTLET, MOUNTED ABOVE CASEWORK
			18"		QTY VOICE, DATA
			18" or 84"		CABLE TV OUTLET
			18"		QTY CATV
			18"		HDMI OUTLET WALL-MTD
			18"		QTY
			18"		RECESSED WALL BOX DEVICE
			18"		QTY
			18"		WIRELESS ACCESS POINT SURFACE MTD (DATA OUTLET)
			18"		QTY
			18"		RECESSED ACTIVATED FLUSH FLOOR BOX
			18"		TYPE AS SCHEDULED
			18"		INTERCOM STATION
			18"		INTERCOM MASTER STATION
				EQUIPMENT	
					AH=AIR HANDLING UNIT
					EF=EXHAUST FAN
					EW=ELECT. WATER COOLER
					EW=ELECT. WALL HEATER
					RF=RELIEF FAN
					UH=UNIT HEATER
					CH=CABINET HEATER
					P=PUMP
					B=BOILER
ABBREVIATIONS					
SUBSCRIPTS					
AFF=ABOVE FINISH FLOOR					
GFI=GROUND FAULT INTERRUPTER					
NL=NIGHT LIGHT-24 HOURS					
PC=PHOTOCELL CONTROLLED					
PC/TC=PHOTOCELL ON/ TIMECLOCK OFF					

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FIRST FLOOR PLAN -
ELECTRICAL LIGHTING

NORTH FISH HATCHERY
HUB

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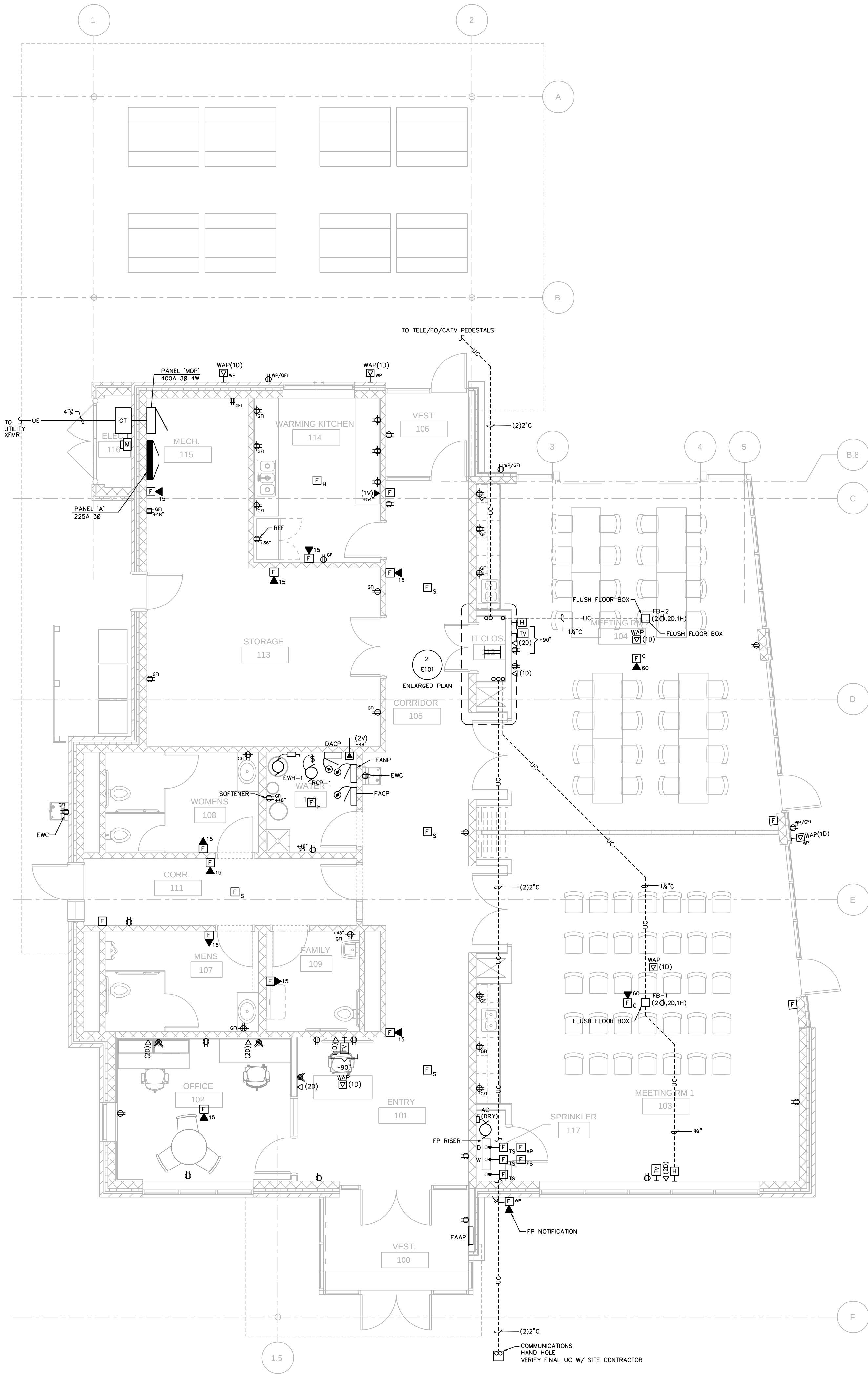
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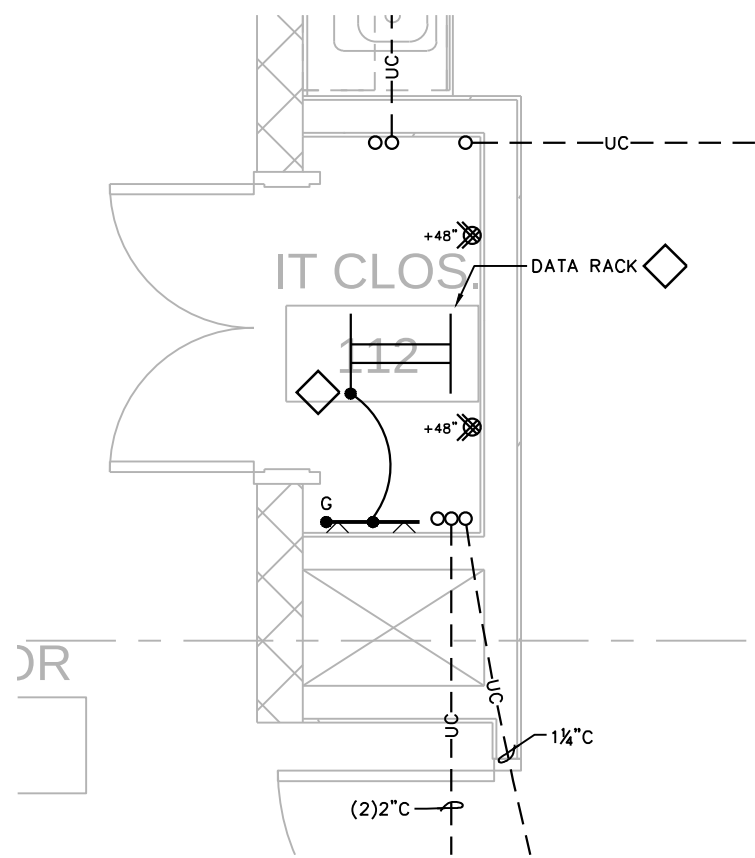
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FIRST FLOOR PLAN -
ELECTRICAL POWER/LV

E101



1 FIRST FLOOR PLAN - ELECTRICAL POWER/LV
3/16" = 1'-0"



2 ENLARGED PLAN - IT CLOSET 112
3/8" = 1'-0"

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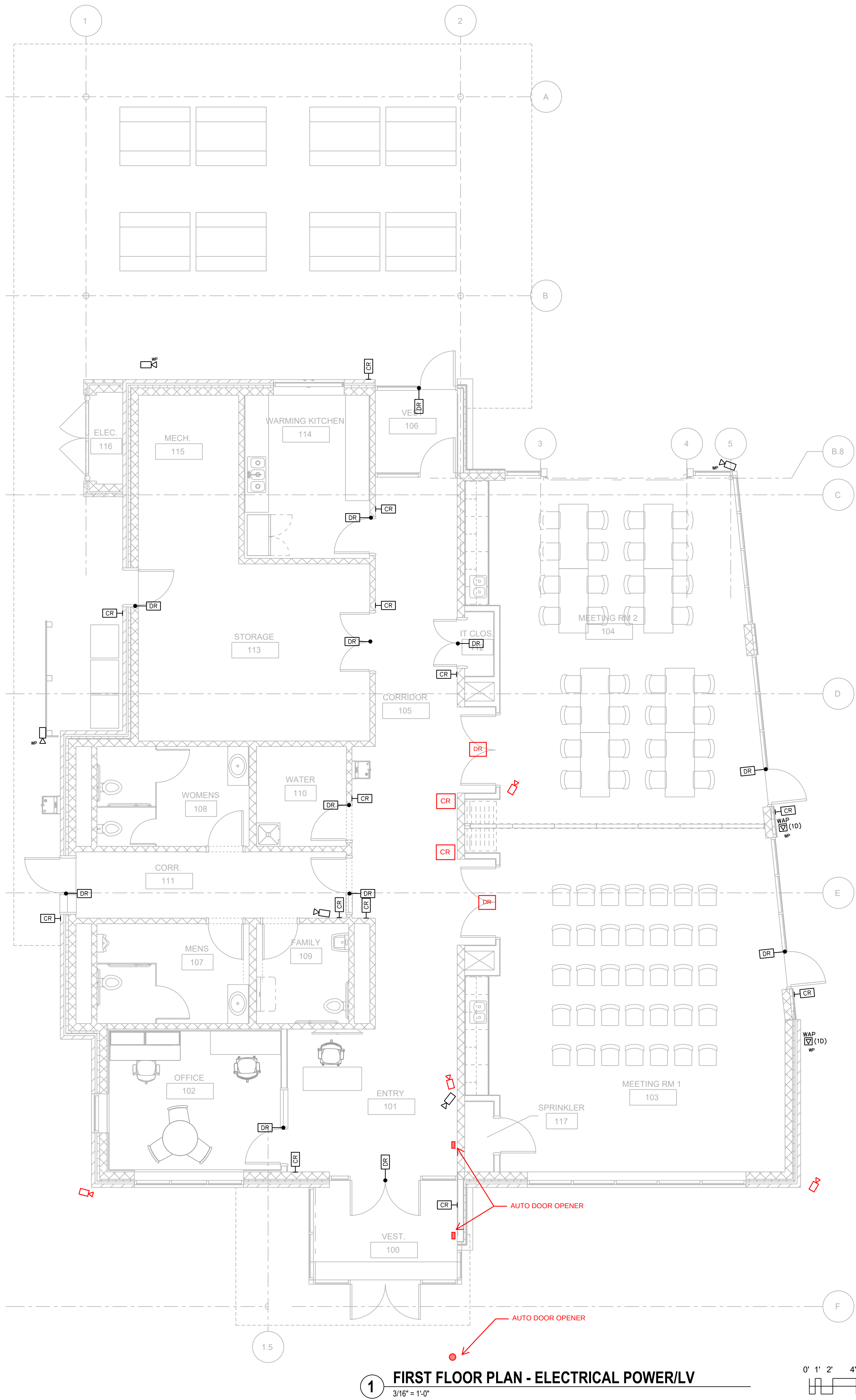
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FIRST FLOOR PLAN -
SECURITY

E102



1 FIRST FLOOR PLAN - ELECTRICAL POWER/LV
3/16" = 1'-0"