



GENERAL CONTRACTORS
CONSTRUCTION MANAGERS

ADDENDUM #4

Essexville-Hampton Public Schools
New Innovation Center Project
September 14, 2026

1. The bid date has been extended to Tuesday, September 22, 2026 at 3:00 p.m.

2. CM Clarifications:

Bid Category #4 - Structural Steel & Miscellaneous Iron

- The canopy shall be furnished and installed complete, other than the concrete work, by BC #4 - Structural Steel & Miscellaneous Iron.

Bid Category #5 - General Trades

- BC #5 - General Trades shall furnish and install all below-grade insulation.
- BC #5 - General Trades is responsible for furnishing the AED and AED cabinet.
- BC #5 - General Trades is responsible for furnishing and installing the metal siding.
- BC #5 - General Trades is responsible for the metal soffit and fascia.
- BC #5 - General Trades is responsible for room signage.
- BC #5 - General Trades is responsible for solid-surface bathroom counters.
- The general trades contractor is responsible for anchor bolts as they relate to wood framing.
- The general trades contractor is not responsible for anchor bolts as they relate to structural or miscellaneous steel components.
- Furnishing and installation of bleachers are not included in the bid at this time.
- Furnishing and installation of the AndyMark FRC Field Perimeter are not included in the bid at this time.
- All exterior window frames (A, B, C) shall be aluminum.

Bid Category #8 - Drywall/Acoustical/Installation

- BC #8 - Drywall/Acoustical/Installation shall furnish and install all above-grade insulation.
- BC #8 - Drywall/Acoustical/Installation is responsible for the 1" EPS insulation board behind the metal siding.

Bid Category #9 - Flooring

- Wall tile is part of the flooring bid division.

3. This addendum includes the Architect's responses to the Pre-Bid RFIs received to date and provides additional clarification. Please review the attached document and incorporate the information provided into your bid, as applicable.

Attachment:

260911 EHPS Innovation Center Pre-Bid RFI Response (17 pages)

END OF ADDENDUM #4

R.C. Hendrick

Project Manager: Chip Hendrick

Phone: 989.781.8116

Fax: 989.781.9512

Project: EHPS New Innovation Center Project

RC Hendrick Job Number 35425

RE: Pre-Bid RFI Response

September 11, 2026

To Whom It May Concern,

Please see responses below to all applicable Requests for Information received regarding the Innovation Center for Excellence at 305 Pine Street in Essexville, MI. Included answers pertain to construction documents and design only.

Prebid RFI #1 - Electrical

1. Who is supplying the fans? There is no specification on the fans
 - a. Refer to Equipment Schedule on M1.0 - Mechanical Plan.
2. What type of retractable receptacle cord reel do they want? No specification on the cord reels.
 - a. Refer to re-issued sheet E1.0 - Electrical Plan.
3. There isn't a type C1 fixture on the drawings, but it is on the fixture schedule
 - a. Refer to re-issued sheet E1.1 - Lighting Plan and E2.0 - Electrical Specifications.
4. Is the Machine Shop 111, division 1 or 2. Hazardous Location doesn't classify.
 - a. The machine shop is to be Class II, Division II.

Prebid RFI #2 - Window Type

1. Window type A, B and C, are they Aluminum Storefront?
 - a. Yes, aluminum storefront. Refer to updated window schedule and detail 1 on re-issued sheet A6.0.

Prebid RFI #3 - Flooring Materials

1. On the room finish schedule they have materials listed, but I need the manufacturer and colors for the carpet-1, carpet-2, carpet -3, vinyl tile, resilient base, and ceramic tile walls.
 - a. Refer to finish schedule on re-issued sheet A6.0.

Prebid RFI #4 - General Trades Questions

1. Is there a basis of design for the toilet partitions?
 - a. Refer to re-issued sheet A8.0 - Specifications.
2. In place of masonry stem walls would concrete poured to the same dimensions be acceptable? If so can this be adjusted to the concrete trades division?
 - a. This is acceptable.

3. There are several notes within the scope letter that mention bearing plates and lintels within masonry. I do not see either of those items shown on the drawings. Please advise.
 - a. No masonry included in the project outside of leveling blocks at center columns. Specifications A8.0 has been updated.
4. Is the general trades contractor responsible for structural steel anchor bolts or just the anchor bolts as they relate to wood framing?
5. What is the basis of design for the overhead doors? R-value required? High lift track? Type of opener?
 - a. Basis of Design is to be EverServe 521S. Refer to updated door schedule on re-issued sheet A6.0.

Prebid RFI #5 - Electrical Specs

1. I'm not seeing any electrical specs on the drawings. Am I missing them?
 - a. Refer to new sheet E2.0 - Electrical Specifications.

Prebid RFI #6 - Exterior Lighting

1. I don't see Exterior Lighting, per C5.0, Site Lighting is remaining and there is Building Fixtures. Looking through the architectural, I don't see them called out.
 - a. Refer to re-issued sheet E1.1 - Lighting Plan for wall packs at the exterior doors.
2. On sheet E1.1, there is a fixture in Toilet 107, what is the fixture type?
 - a. Refer to re-issued sheet E1.1 - Lighting plan.

Prebid RFI #7 - Shop 111 Classification

1. Shop 111 is called out to be Class II. What Div is it?
 - a. Class II, Division 2.

Prebid RFI #8 - Concrete - Site Package

1. We found Bid Category 3 in the issued front end. Please send the construction-ready foundation/reinforcing sheets and confirm the limits/detail for the 6-inch concrete drive marked "to be confirmed with the owner." Also confirm whether the bidder site-inspection requirement is mandatory for Category 3.
 - a. Limits and detail for 6" concrete drive: refer to C3.0 concrete driveway cross section detail and site plan on C5.0. Do not refer to A1.0 - Architectural Site Plan.

Prebid RFI #9 - Voice - Data

1. I show NO Voice / Data either entering the building, IT Room or Drops.
 - a. Data has been included on re-issued sheet E1.0 - Electrical Plan.

Prebid RFI #10 - Landscaping

1. We are reviewing the landscaping scope for the Essexville-Hampton New Innovation Center project. The drawings show landscaping beds and low-lying shrubbery, but we could not locate a plant schedule identifying the required species, sizes, quantities, or spacing. Could you please provide the planting requirements or clarify what bidders should carry in their proposals?
 - a. See attached re-issued C5.0 - Site Plan Sheet.

Prebid RFI #11 - Water Heater

1. I'm looking for some clarification about the domestic hot water for this project. On P1.0 the water heater detail shows a recirculating pump and recirculating hot water line, but the drawing does not show a recirculating hot water line. Are we to figure it with a recirc line or omit it?
 - a. There is no recirculating pump - refer to updated detail 5/P1.0 - Plumbing Plan.

Prebid RFI #12 - Fire Alarm

1. Is there a preferred Fire Alarm contractor that is being requested to tie into an existing system, or will this be stand alone?
 - a. There is no preferred fire alarm contractor.

Prebid RFI #13 - Framing Details

1. I have an RFI regarding the framing detail above the type "C" windows. The way this is currently drawn there is no space for a header to support the truss weight above. Can you please provide a framing detail for these areas.
 - a. See updated detail 7/A7.0 - Wall Sections.

Prebid RFI #14 - Electrical Questions

1. Page E1.0 panels LP-A & LP-a1 - these are in room 111 (noted as hazardous location). Will these two panels be relocated to a different room or enclosed in a separate room? I'm not sure that any manufacturer can provide these panels to meet this requirement.
 - a. A wall and door has been added in front of the electrical panel. Please see re-issued 1/A2.1.
2. Is the Crouse Hinds disconnect required to be suitable for hazardous locations as indicated by the part number provided? It's located in room 108 (outside of room 111 - classified hazardous location).
 - a. The switch is to be located in Room 108.
3. Are there any BOM / part numbers for cord reels, floor boxes, and receptacles located inside room 111 that can be provided?
 - a. Cord reels have been included on E2.0. Floor boxes are to be dual voltage and receptacles are to meet hospital grade criteria.
4. Are fire alarm and low voltage systems in room 111 required to meet hazardous locations as noted?
 - a. Yes.

5. Does the current light fixture schedule for room 111 meet the hazardous location requirements asked for in this room? Will there be a revised lighting schedule?
 - a. Revised lighting schedule on re-issued E1.1 - Lighting Plan. Include pricing for Lithonia Petrolux PXHW and EMXH.

Prebid RFI #15 - Pipe Railing

1. Reference drawing A2.5 Detail 3. The 2" bronze pipe railing in the steel scope of work has no information in the specification and really only this on the drawings. Is the Architect or Owner expecting bronze 2" pipe handrail or an AESS 2" Pipe with a bronze powder coat handrail? What is expected?
 - a. Bronze powder coat handrail.

Prebid RFI #16 - Drawings E1.0, E1.1

1. Drawing E1.0 states Machine Shop 111 is to be classified as a Class II hazardous location; does it fall under Division 1 or 2?
 - a. Division 2.
2. Drawing E1.0 also shows floor receptacles in Machine Shop 111 as well as Arena 102; in-grade floor receptacles are generally not permitted in Class II hazardous locations, should we assume pedestal mount receptacles meeting the Class II requirements (i.e. NEMA 4/4x/Etc)? And should this apply to Arena 102 (less the hazardous location requirements) as there is no floor box spec?
 - a. Utilize NEMA 4/4x BOD is acceptable in Machine Shop 111. Utilize Access Floor Systems IEBSX for Arena 102 BOD.
3. Who is to supply / install the cord reels shown on E1.0? (No spec or info given).
 - a. Refer to new sheet E2.0 - Electrical Specifications.
4. Drawing E1.1 shows Type E/E1 fixtures in Machine Shop 111 and they do not appear to be rated for this location; are we to include this fixture or will an alternative be provided by the engineer?
 - a. An alternative has been provided. Refer to re-issued sheet E1.1 - Lighting Plan.

Prebid RFI #17 - Concrete Work Questions

1. Details for reinforcing bar in the continuous trench footing, stoops, and piers
 - a. Two (2) #5 bars top and bottom. Reinforce concrete stoop pads, drive, and sidewalks with 6x6, 1.4x1.4 wwf. Post footings are mass pour with no steel reinforcing. Steel columns utilize base plate and anchor bolts, wood columns utilize Simpson column base plate.
2. Dimensions / Details on equipment pads for CU1-3 and CU4
 - a. Pads are to be 4'x12' and 4'x4'.
3. Drawing A7.0 calls for a "Wash 4" Conc. Porch Deck" - Please define what this means.
 - a. Wash all slabs min 1/8" for every one foot at stoops and entry.

Additional updates as follows:

A2.1 - First Floor Plan, Second Floor Plan and Enlarged Plans - Re-Issued

- a. Updated to include new wall and door at electrical panel in Machine Shop 111.

- b. Updated to include Hussy bleachers as basis of design.
- c. Updated to include paint accent colors via tag at applicable walls.

A6.0 - Door and Frame Types, Door Schedule, Room Schedule, Window Schedules

- a. Updated to include minimum manufacturer and style line for finishes. All material colors to be finalized via shop drawing.

Sincerely,



Lauren N. Meyer, AIA, NCARB



ESSEXVILLE-HAMPTON PUBLIC SCHOOLS CENTER FOR

305 Pine Street, Essexville, MI 48732



PROJECT TEAM

ARCHITECT: SEDGEWICK + FERWEDA ARCHITECTS
410 EAST COURT STREET
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OWNER: ESSEXVILLE-HAMPTON PUBLIC SCHOOLS
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CONSTRUCTION MANAGER: RC HENDRICK
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SAGINAW, MI 48609
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TELEPHONE: 989.781.8118
EMAIL: CHIP@RCHENDRICK.COM

BUILDING DATA

BUILDING AREA: FIRST FLOOR: 7,284 SF
SECOND FLOOR: 1,178 SF (N/A PER MBC 505.2.1)
PHASE 1 TOTAL: 8,462 SF

PROPOSED USE: EDUCATION GROUP-E

CONSTRUCTION TYPE: TYPE V-B (MBC SECTION 602, NFPA 11-000)

AREA LIMITATIONS: 40' (MBC TABLE 504.3)
MAX BUILDING HEIGHT: 9,500 SF (MBC TABLE 506.2)
MAX BUILDING AREA: 233 TOTAL OCCUPANTS (MBC TABLE 1004.1.2, NFPA 14.1.7
OCCUPANT LOAD: TABLE 7.3.1.2)

DEAD END LIMIT: 20 FT (NON-FIRE SUPPRESSED, MBC 1018.4 NFPA 14.2.5.2)
REQUIRED EXITS: 2 REQUIRED (MBC 1005.3.1 NFPA 14.2.4.2)
FIRE PROTECTION: NON-SPRINKLED LIMITED TO 12,000 SQ FT (NFPA 101 14.3.5.1)
FIRE ALARM: (MBC 907.2.3 NFPA 72)
TRAVEL DISTANCE (TD): 150 LIN FT MAX (NFPA 14.2.6.2)

COMMON PATH OF TRAVEL: 75 FT MAX ALLOWED (MBC 1006.2.1, NFPA 14.2.5.3.1)

EGRESS WINDOWS: NOT REQUIRED MBC 1030 NFPA 14.2.11.1.2

FIRE RATINGS: 1 HR FIRE PARTITION (MBC SECTION 708, NFPA 14.3.6)
CORRIDORS: UL 1419 STUD WALLS UL 90S MASONRY WALLS
HORIZONTAL BARRIERS: 2 HR FIRE BARRIERS (MBC SECTION 707, NFPA 14.2.2.5, 7.2.4.3)
UL 1419 STUD WALLS UL 90S MASONRY WALLS
STAIR ENCLOSURES: 0 HR RATED (MBC 1023.2.2, 404.6.4, 404.5.1)
FLOORS: 2 HR FIRE RATING
UL G250 CONC/MTL DECK/STL JOIST

WALL FINISHES: CLASS 'A' (MBC TABLE 803.11, NFPA 14.3.3.2)
CORRIDOR ROOMS: CLASS 'B' (MBC TABLE 803.11, NFPA 14.3.3.2)

FLOOR FINISHES: CLASS II (MBC SECTION 804 NFPA 14.3.3.3.1)

CORRIDOR AND ROOMS: VOCATIONAL SHOPS, 1-HR FIRE BARRIER (MBC TABLE 509)
INCIDENTAL USES: 1 HR JANITORS CLOSET (NFPA 14.3.2.1)

MULTIPLE OCCUPANCIES: NONE
SPECIAL PROVISIONS: NONE

GENERAL PROJECT AND SITE

PROJECT SUMMARY:
NEW 7,300 SQUARE FOOT BUILDING TO SERVE AS A SUPPLEMENTAL EDUCATION, EXTRA-CURRICULAR, AND COMMUNITY SPACE. PHASE 1, CURRENT PHASE, HAS A PRACTICE ARENA, MACHINE SHOP, AND MAKER SPACE FOR THE DISTRICT ROBOTICS TEAM. THE SPACE WILL NOT BE USED REGULARLY FOR SCHEDULED CLASSROOM TIME. THE PROJECT HAS A FUTURE PHASE 2 WITH CLASSROOMS PLANNED FOR STEM PROGRAMS.

PARCEL ID: 170-024-200-010-00
LOT SIZE:
PARCEL ZONING: R-1 SINGLE FAMILY RESIDENTIAL

SETBACKS:
FRONT: 25'
REAR: 25'
SIDE: 5'
EASEMENTS: NONE KNOWN

LEGAL DESCRIPTION:
COM 617.45 FT E & 33 FT N OF SW COR OF GOVT LOT 3 TH N 384.45 FT TH W 200 FT TH N 150 FT TH W 384.45 FT TH N 60 FT TH E 384.45 FT TH N 150 FT TH W 184.45 FT TH N 120 FT TH W 200 FT TH N 903.88 FT TH E 100 FT TH S 150 FT TH E 100 FT TH N 25 FT TH E 490 FT TH N 125 FT TH E 217 FT TH S 167 FT TH E 200 FT TH N 20 FT TH E 120 FT TH N 147 FT TH E TO E LI OF LOT 3 TH S 1787.96 FT TH W 743.69 FT TO BEG. EX N 183 FT OF W 133 FT THRF. SEC 24, T14N, R6E

PLUMBING FIXTURE COUNT

WATER CLOSETS
TOTAL REQUIRED: 5 (1 PER 50 OCCUPANTS; MPC 2021 TABLE 403.1)
TOTAL PROVIDED: 5

LAVATORIES
TOTAL REQUIRED: 5 (1 PER 50 OCCUPANTS; MPC 2021 TABLE 403.1)
TOTAL PROVIDED: 5

DRINKING FOUNTAIN
TOTAL REQUIRED: 3 (1 PER 100 OCCUPANTS; MPC 2021 TABLE 403.1)
TOTAL PROVIDED: 3

SERVICE SINK
TOTAL REQUIRED: 1 (1 TOTAL; MPC 2021 TABLE 403.1)
TOTAL PROVIDED: 1

BUILDING CODES

- BUILDING CODES TO REFERENCE
(CHECK ALL TO BE USED)
- ☒ MICHIGAN BUILDING CODE 2021 EDITION
☒ MICHIGAN RESIDENTIAL BUILDING CODE 2021 EDITION
☐ MICHIGAN REHABILITATION CODE 2021 EDITION - LEVEL 2
- ☒ MECHANICAL - MICHIGAN MECHANICAL CODE 2021 EDITION
☒ PLUMBING - MICHIGAN PLUMBING CODE 2021 EDITION
☒ ELECTRICAL - NATIONAL ELECTRICAL CODE 2023 EDITION
- ☐ MICHIGAN ENERGY CODE - ASHRAE 90.1-2013
- ☒ NFPA 101 LIFE SAFETY CODE 2015 EDITION

DRAWING INDEX			
SHEET NO.	SHEET NAME	CURRENT REVISION	CURRENT REVISION DATE
A0.0	Cover Page	2	9.11.26
C1.0	Legend Sheet		
C2.0	Miscellaneous Note Sheet		
C3.0	Miscellaneous Detail Sheet		
C4.0	Existing Conditions and Removal Sheet		
C5.0	Site Plan Sheet	2	9.11.26
C6.0	Proposed Storm Sewer and Grading Sheet		
C7.0	SECO Key and Note Sheet		
A0.1	General Notes		
A0.2	Life Safety Plans		
A1.0	Architectural Site Plan	2	9.11.26
A2.1	First Floor Plan, Second Floor Plan and Enlarged Plans	2	9.11.26
A2.2	Reflected Ceiling Plan		
A2.3	Roof & Mezzanine Framing Plans		
A2.4	Foundation & Root Plans		
A2.5	Vertical Circulation		
A3.0	Exterior Elevations		
A4.0	Building Sections	2	9.11.26
A5.0	Interior Elevations		
A6.0	Door and Frame Types, Door Schedule, Room Schedule, Window Schedule	2	9.11.26
A7.0	Wall Sections	2	9.11.26
A8.0	Specifications	2	9.11.26
P1.0	Plumbing Plan	2	9.11.26
M1.0	Mechanical Plan		
M2.0	Mechanical Details		
E1.0	Electrical Plan	2	9.11.26
E1.1	Lighting Plan	2	9.11.26
E2.0	Electrical Specifications	2	9.11.26

GENERAL NOTES

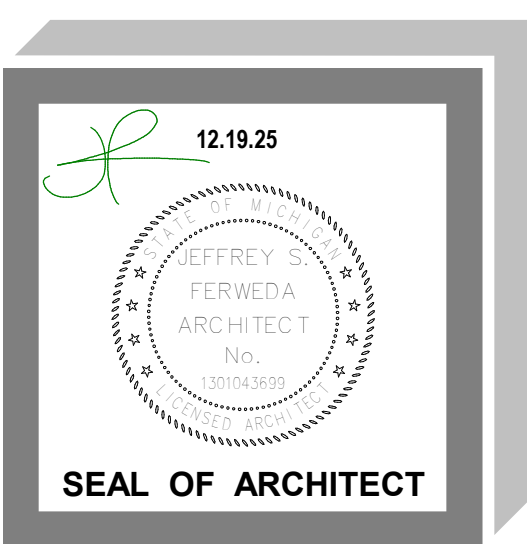
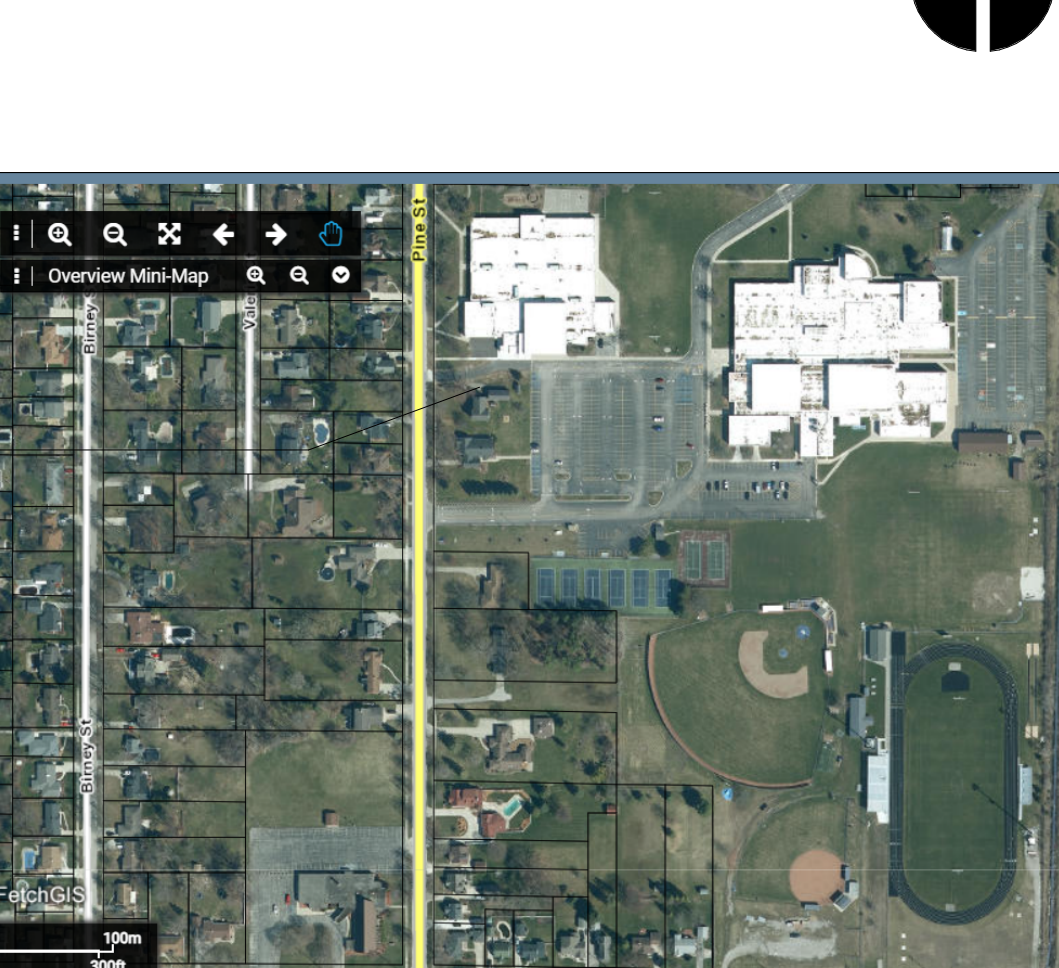
- DO NOT SCALE DRAWINGS. USE FIGURED DIMENSIONS ONLY.
- CONTRACTOR SHALL VERIFY ALL DIMENSIONS PRIOR TO ANY WORK.
- ALL WORK SHALL CONFORM TO ALL GOVERNING CODES AND REGULATIONS.

KEY TO DIMENSIONING:
DIMENSIONS SHOWN ARE FROM ROUGH STUD FACE TO ROUGH STUD FACE, ROUGH STUD FACE TO EXTERIOR SHEATHING, ROUGH FACE TO COLUMN CENTERLINE, AND COLUMN CENTERLINE TO COLUMN CENTERLINE, UNLESS NOTED OTHERWISE.

OWNERSHIP OF DRAWINGS

ALL PLANS, DRAWINGS, AND SPECIFICATIONS (THE DOCUMENTS) ARE INSTRUMENTS OF SERVICE AND SHALL REMAIN THE PROPERTY OF THE ARCHITECT WHETHER THE PROJECT FOR WHICH THEY WERE MADE IS EXECUTED OR NOT. OWNER SHALL NOT USE THE DOCUMENTS ON OTHER PROJECTS, FOR EXTENSIONS OR ADDITIONS TO THE PROJECT, OR FOR THE COMPLETION OF THE PROJECT BY OTHER EXCEPT IN AGREEMENT IN WRITING AND WITH APPROPRIATE COMPENSATION TO THE DESIGNER. THE OWNER SHALL HOLD THE ARCHITECT HARMLESS FROM ALL CLAIMS, ACTIONS, CAUSE OF ACTIONS, LIABILITY, LOSSES, DAMAGES, COST AND EXPENSE, INCLUDING ATTORNEY'S FEES AND COSTS ARISING FROM SUCH UNAUTHORIZED USE. REPRODUCTION COPIES CAN BE PROVIDED AT THE OWNERS REQUEST AND EXPENSE.

PROJECT VICINITY MAP



ARCHITECT
SEDGEWICK + FERWEDA ARCHITECTS

410 East Court Street Flint, MI 48503
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Good clients + Good design + Great architecture



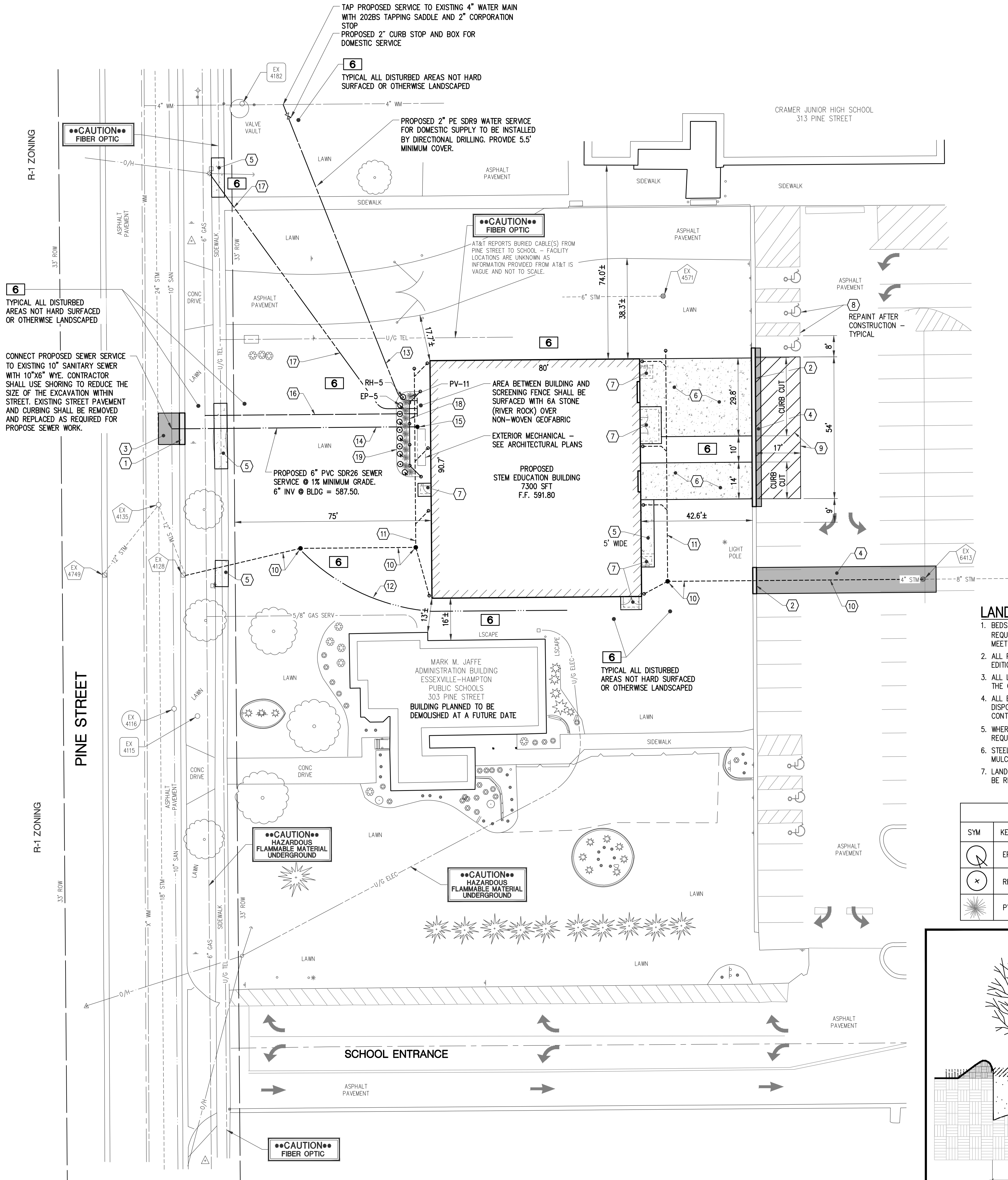
REVISIONS	
9.11.26	Pre-Bid RFI
Date	Description

Project
ESSEXVILLE-HAMPTON PUBLIC
305 Pine Street, Essexville, MI 48732
AND DESIGN

Drawing
Cover Page

DRAWN BY: TAG
CHECKED BY: JSF

PROJECT NUMBER **25-028**
DATE **JULY 29, 2026**
SCALE
SHEET NUMBER
A0.0



PROPOSED IMPROVEMENT LEGEND

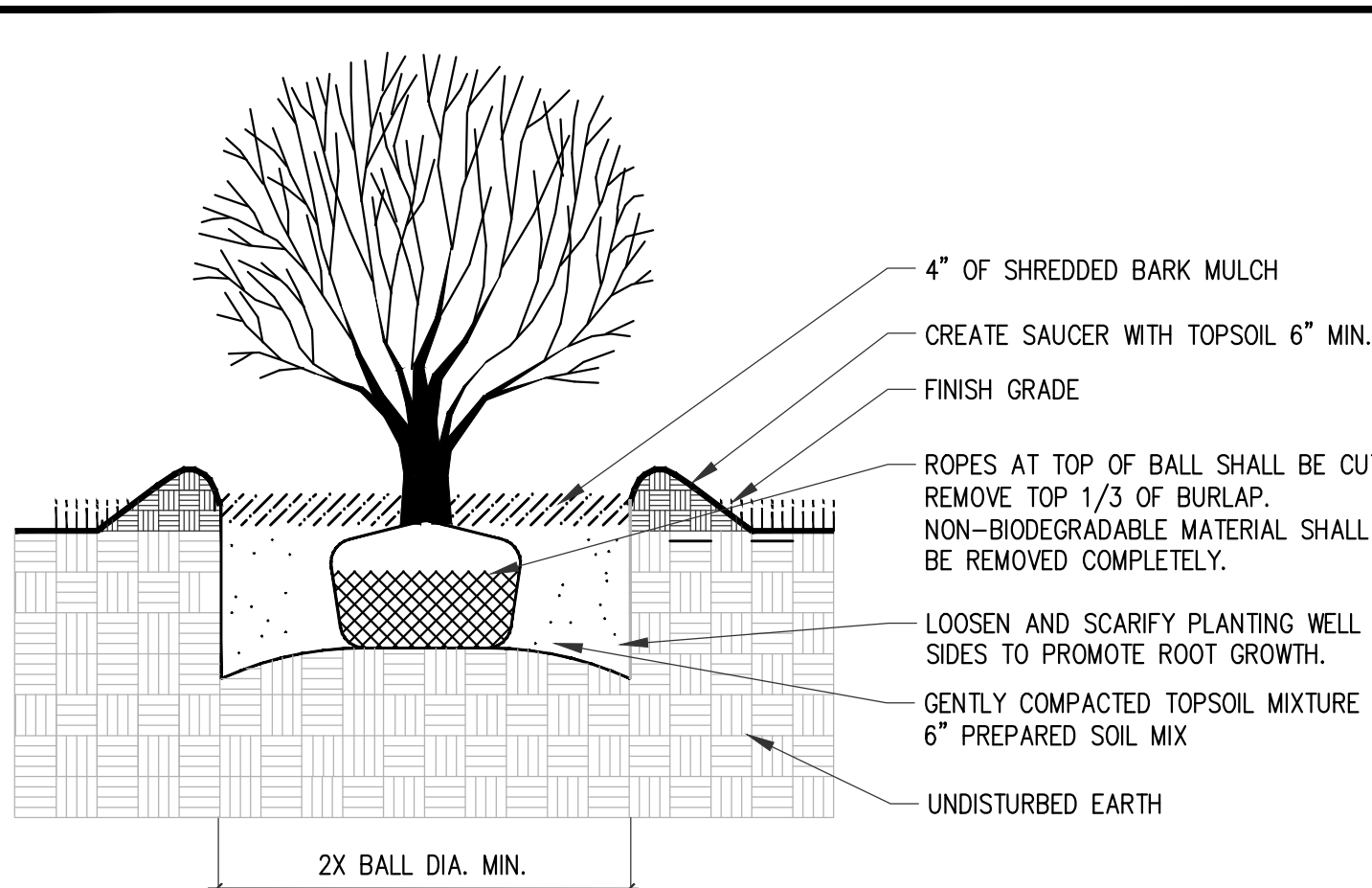
- 1 24" MDOT F4 CURB & GUTTER - STREET
- 2 18" MDOT F2 (TIP-OUT) CURB & GUTTER - PARKING LOT
- 3 HMA PAVEMENT REPAIR - STREET
- 4 HMA PAVEMENT REPAIR - PARKING LOT
- 5 CONCRETE SIDEWALK, 4" THICK
- 6 CONCRETE DRIVEWAY, 6" THICK
- 7 FROST FREE CONCRETE DOOR STOOP *
- 8 ADA PARKING SYMBOL AND PAVEMENT MARKINGS
- 9 PAVEMENT MARKINGS FOR "NO PARKING"
- 10 STORM SEWER
- 11 ROOF WATER COLLECTION SEWER
- 12 DRAINAGE SWALE
- 13 2" DOMESTIC SERVICE LEAD **
- 14 6" PVC SANITARY SERVICE LEAD **
- 15 6" CLEANOUT
- 16 UNDERGROUND GAS SERVICE BY OTHERS **
- 17 UNDERGROUND ELECTRIC SERVICE (DIRECTIONALLY DRILLED) BY OTHERS **
- 18 VINYL SCREENING FENCE, 4' HIGH
- 19 MULCH BED WITH LOW LYING LANDSCAPING SHRUBBERY

* SEE ARCHITECTURAL PLANS
** SEE ARCHITECTURAL PLANS FOR LOCATION AT BUILDING

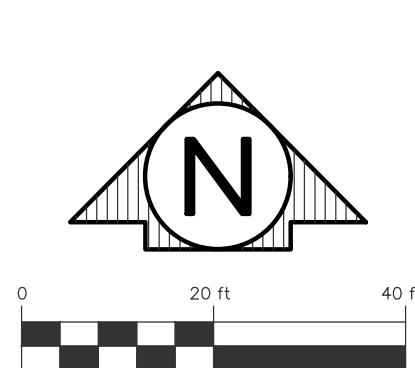
LANDSCAPE NOTES

- 1. BEDS SHALL BE FREE OF DEBRIS AND GRADED PROPERLY TO ALLOW FOR THE REQUIRED 4" DEPTH OF SHREDDED HARDWOOD MULCH WITH FINAL ELEVATION TO MEET TOP OF CURB OR METAL EDGING.
- 2. ALL PLANT MATERIAL AND PLANTINGS SHALL CONFORM TO ANSI 260.1 OR CURRENT EDITION.
- 3. ALL LANDSCAPE LAYOUT IS TO BE STAKED BY THE CONTRACTOR FOR APPROVAL BY THE OWNER PRIOR TO CONSTRUCTION.
- 4. ALL EXCESS EXCAVATED MATERIALS AND DEBRIS WHICH ARE NOT ACCEPTED FOR DISPOSAL ON THE SITE BY THE OWNER SHALL BE REMOVED FROM THE SITE BY THE CONTRACTOR AND DISPOSED OF LEGALLY OFFSITE.
- 5. WHERE A DISCREPANCY IS FOUND BETWEEN EXISTING FIELD CONDITIONS AND/OR REQUIRED LANDSCAPING WORK, NOTIFY OWNER FOR CLARIFICATION IMMEDIATELY.
- 6. STEEL LANDSCAPE EDGING IS TO BE INSTALLED ALONG PLANTING BED EDGES WHERE MULCH AND LAWN MEET.
- 7. LANDSCAPING MAINTENANCE - ALL DISEASED, DAMAGED OR DEAD MATERIALS SHALL BE REPLACED IN ACCORDANCE WITH THE STANDARDS OF THE ZONING ORDINANCE.

PLANT SCHEDULE				
SYM	KEY	BOTANICAL NAME	COMMON NAME	QUANTITY
	EP	ECHINACEA PURPUREA	PURPLE CONE FLOWER	NO. 3 CONT. 5 @ 2' SPACING
	RH	RUDEBECKIA HIRTA	BLACK-EYED SUSAM	NO. 3 CONT. 5 @ 2' SPACING
	PV	PANICUM VIRGATUM 'NORTHWIND'	NORTHWIND SWIFTHGRASS	NO. 3 CONT. 11 @ 3' SPACING



SHRUB PLANTING DETAIL



ZONING INFORMATION

ZONING DISTRICT = R-1 SINGLE FAMILY RESIDENTIAL
PROPOSED USE = PUBLIC SCHOOL FACILITY
REQ'D FRONT YD SETBACK = 25 FEET PROPOSED = 75'
REQ'D SIDE YD SETBACK = 5 FEET MIN FOR ONE - 15 FEET MIN TOTAL OF TWO PROPOSED EXCEEDS 100'
REQ'D REAR YD SETBACK = 25 FEET PROPOSED EXCEEDS 1000'
MINIMUM LOT SIZE & WIDTH = 7,200 SFT, 60' WIDE
EXISTING LOT = 44+ ACRES & EXCEEDS MINIMUMS

PARKING

PARKING FOR PROPOSED BUILDING WILL BE PROVIDED WITHIN ADJACENT 3 ACRE +/- PARKING LOT FOR MAIN SCHOOL BUILDING(S).

LOADING/UNLOADING AREA WILL BE PROVIDED ADJACENT TO PROPOSED BUILDING AND WITHIN PROPOSED DRIVEWAY FROM EXISTING PARKING LOT TO PROPOSED BUILDING.

PARKING

EXISTING PARKING SPACES FOR EXISTING SCHOOL BUILDINGS: 576 SPACES EXISTING MINUS 6 SPACES PROPOSED TO BE ELIMINATED FOR PROPOSED STEM BUILDING = 570 SPACES NET. IMPACT TO EXISTING PARKING SPACES RESULTS IN A 1.05% REDUCTION IN EXISTING PARKING SPACES.

PARKING SPACES REQUIRED:
NORMAL SCHOOL HOURS - USERS OF PROPOSED STEM BUILDING DURING SCHOOL HOURS WILL BE TEACHERS ALREADY ONSITE FOR CLASSES WITHIN OTHER EXISTING BUILDINGS, STUDENTS ALREADY ONSITE AND STUDENTS THAT WILL BE BUDED IN. MAINTENANCE AND JANITORIAL EMPLOYEES WILL ALREADY BE ONSITE FOR OTHER EXISTING BUILDINGS. STEM COMPETITIONS WILL BE HELD AFTER NORMAL SCHOOL HOURS. THEREFORE, REQUIRED PARKING FOR PROPOSED STEM BUILDING USE DURING NORMAL SCHOOL HOURS = 0.

AFTER SCHOOL HOURS - SPECTATOR AREA AND BLEACHERS ADJACENT TO COMPETITION CLEAR FLOOR AREA = 545 SQUARE FEET. PER 16.2.H OF THE ZONING ORDINANCE, ONE SPACE SHALL BE PROVIDED PER 28 SQUARE FEET = 20 SPACES REQUIRED FOR PROPOSED STEM BUILDING USE AFTER SCHOOL HOURS. PARKING FOR PROPOSED STEM BUILDING AFTER SCHOOL HOUR USE WILL BE PROVIDED WITHIN ADJACENT PARKING LOTS FOR MAIN SCHOOL BUILDINGS. IMPACT TO EXISTING PARKING SPACES RESULTS IN A 3.5% UTILIZATION OF NET EXISTING PARKING SPACES.

LOADING/UNLOADING AREA WILL BE PROVIDED ADJACENT TO PROPOSED BUILDING AND WITHIN PROPOSED DRIVEWAY FROM EXISTING PARKING LOT TO PROPOSED BUILDING.

SITE LIGHTING

NO CHANGES TO EXISTING PARKING LOT LIGHTING ARE PROPOSED.

PROPOSED EXTERIOR BUILDING LIGHTING WILL CONSIST OF WALL MOUNTED LED FIXTURES ON THE PROPOSED BUILDING SHIELDED DOWNWARD. SEE ARCHITECTURAL PLANS FOR LIGHTING DESIGN.

SITE SIGNAGE

PROPOSED SIGNAGE IS PROPOSED ON THE WEST WALL OF PROPOSED BUILDING - SEE ARCHITECTURAL PLANS.

MISCELLANEOUS NOTES

- 1. PROPOSED BUILDING IS PARALLEL AND PERPENDICULAR TO PINE STREET R.O.W.
- 2. REGULAR PAVEMENT MARKINGS SHALL BE YELLOW - BARRIER FREE MARKINGS SHALL BE BLUE. ALL MARKINGS SHALL BE 4" WIDE. ALL EXISTING PAVEMENT MARKINGS DISTURBED DURING CONSTRUCTION SHALL BE REPAINTED.
- 3. WHERE A DISCREPANCY IS FOUND BETWEEN EXISTING CONDITIONS AND/OR PROPOSED WORK, CONTRACTOR SHALL NOTIFY OWNER FOR CLARIFICATION IMMEDIATELY.
- 4. SEE MISCELLANEOUS DETAIL SHEET FOR DETAILS OF PROPOSED WORK.
- 5. SEE EXISTING CONDITIONS AND REMOVAL SHEETS FOR SURVEY CONTROL, BENCHMARK INFORMATION AND EXISTING STRUCTURE INVENTORIES.
- 6. SEE ARCHITECTURAL PLANS FOR BUILDING DETAILS.

WATER AND SEWER SERVICE NOTES

- 1. THE CONTRACTOR SHALL NOTIFY THE CITY DEPARTMENT OF PUBLIC WORKS (DPW) FORTY EIGHT (48) HOURS PRIOR TO UTILITY CONSTRUCTION.
- 2. ALL CONSTRUCTION PROCEDURES AND MATERIALS USED FOR WATER SERVICE CONSTRUCTION SHALL CONFORM TO THE CITY'S CURRENT STANDARDS AND SPECIFICATIONS.
- 3. ALL CONSTRUCTION PROCEDURES AND MATERIALS USED FOR SANITARY SERVICE CONSTRUCTION SHALL CONFORM TO THE CITY'S CURRENT STANDARDS AND SPECIFICATIONS.
- 4. THE CITY DPW SHALL OPERATE ALL VALVES AND HYDRANTS IN THE ACTIVE WATER SYSTEM. THE CONTRACTOR SHALL REQUEST VALVE AND HYDRANT OPERATION WITH AT LEAST 24 HOURS ADVANCE NOTICE TO THE WATER DEPARTMENT. THE CITY RESERVES THE RIGHT TO RESCHEDULE OR CANCEL VALVE OPERATION AT ANY TIME.
- 5. TAPS FOR SERVICE CONNECTIONS SHALL BE COMPLETED UNDER PRESSURE. THE CORPORATION AND SERVICE LEAD SHALL BE VISUALLY CHECKED FOR LEAKAGE WHILE UNDER PRESSURE. ALL JOINTS SHALL REMAIN EXPOSED UNTIL THE ENGINEER HAS OBSERVED THEM.
- 6. A 12 AWG COPPER TRACER WIRE DESIGNED AND MANUFACTURED FOR THE PURPOSE OF DETECTING BURIED UTILITIES SHALL BE INSTALLED ALONG THE ROUTE OF PE WATER SERVICE.
- 7. WATER METER WILL BE REQUIRED INSIDE OF BUILDING. METER TYPE TO BE DETERMINED BY THE CITY DPW.

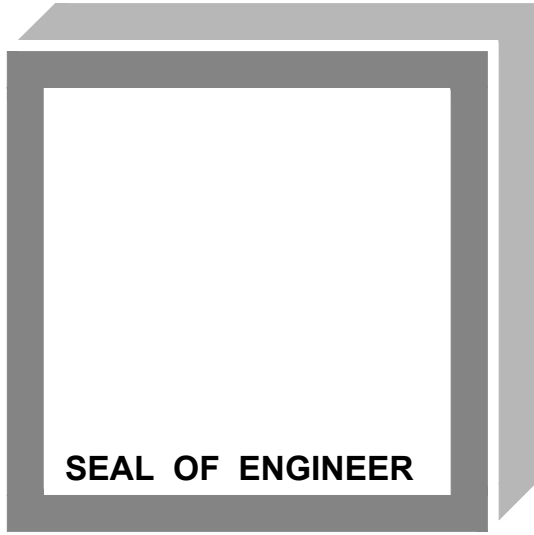
SOIL EROSION CONTROL NOTES

- 1. ALL SOIL EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE INSTALLED PRIOR TO BEGINNING WORK ON THE PROJECT. THE CONTRACTOR SHALL REVIEW THE SESC PERMIT AND ABIDE BY ALL REQUIREMENTS OF THE PERMIT, IF A PERMIT IS REQUIRED.
- 2. ALL NEW CATCH BASINS, EXISTING CATCH BASINS WITHIN PROJECT LIMITS AND ADJACENT DOWN GRADIENT CATCH BASINS SHALL HAVE SESC MEASURE #36 (FILTER SACK) INSTALLED UNTIL RESTORATION IS COMPLETE.
- 3. ALL DISTURBED AREAS SHALL BE TOP SOILED (3" MIN), SEEDED, FERTILIZED AND MULCHED TO ESTABLISH TURF.
- 4. SEE EXISTING CONDITIONS AND REMOVAL SHEET FOR ADDITIONAL SESC MEASURES.
- 5. SEE SESC KEY AND NOTE SHEET SHEET FOR MORE SESC INFORMATION.



Know what's below.
Call before you dig.

ROWE PROFESSIONAL SERVICES COMPANY	
PLAN SUBMITTALS AND CHANGES	
SITE PLAN APPROVAL - **NOT FOR CONSTRUCTION**	
DATE	DESCRIPTION
6-10-26	ISSUED FOR SITE PLAN REVIEW
7-14-26	REVISED PER SITE PLAN REVIEW
9-9-26	ADDED LANDSCAPING DESIGN



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REVISIONS	
Date	Description

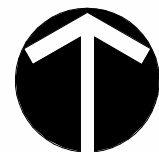
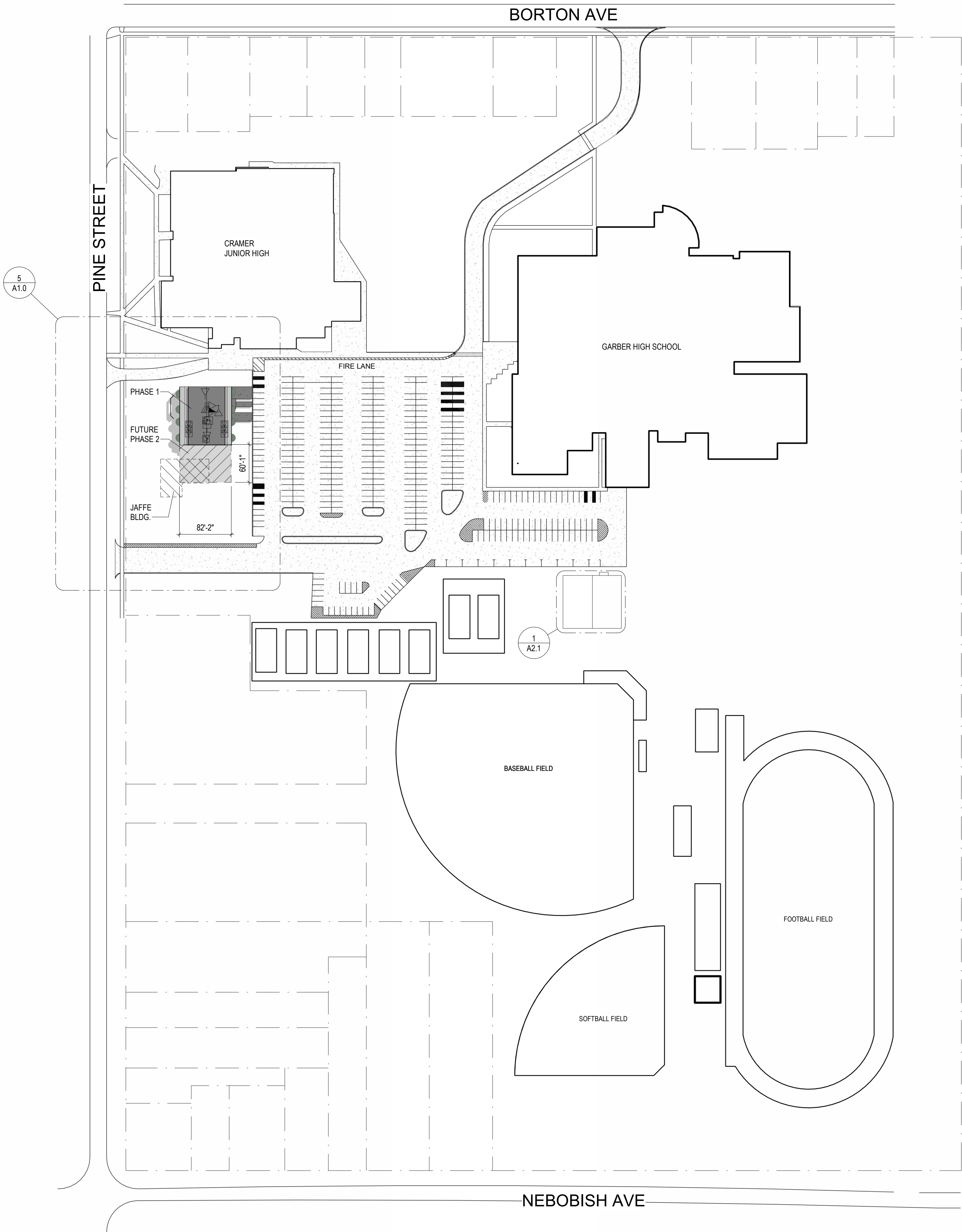
Project
Essexville STEM
305 Pine Street, Essexville, MI 48732

Drawing
SITE PLAN SHEET

DRAWN BY: MCC
CHECKED BY: DAS
PROJECT NUMBER 25-028
DATE JUNE 2026
SCALE 1" = 20'
SHEET NUMBER

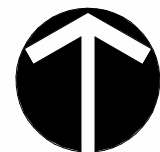
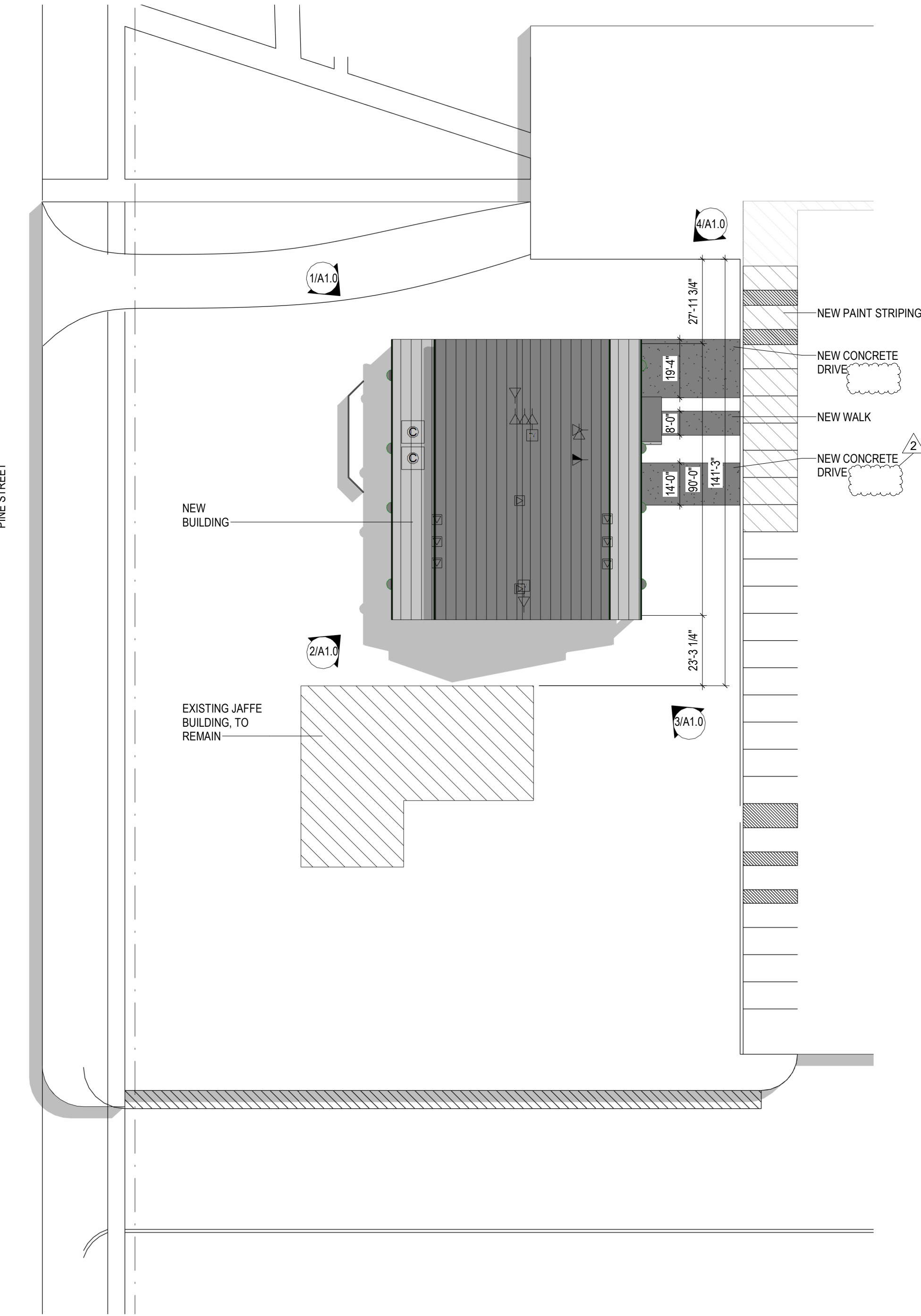
C5.0

9/14/2026 12:39:18 PM



6 Master Site Plan

A1.0 1"=100'-0"



5 Enlarged Conceptual Site Plan

A1.0 1"=30'-0"



4 Exterior - North East

A1.0



3 Exterior - South East

A1.0



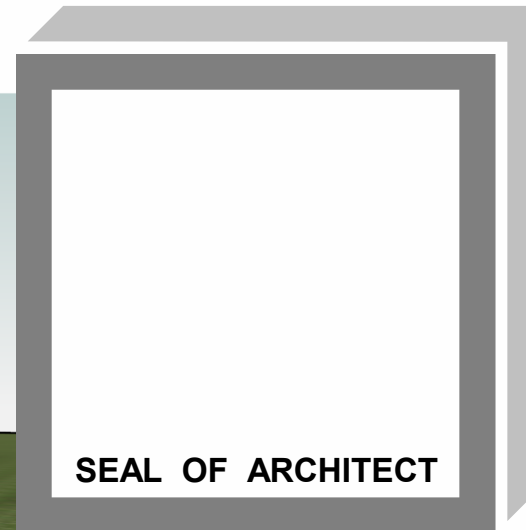
2 Exterior - South West

A1.0



1 Exterior - North West

A1.0



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REVISIONS	
9.11.26	Pre-Bid RFI
Date	Description

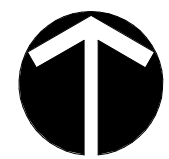
Project
ESSEXVILLE-HAMPTON PUBLIC
305 Pine Street, Essexville, MI 48732N
AND DESIGN

Drawing
Architectural Site Plan

DRAWN BY: Author
CHECKED BY: Checker

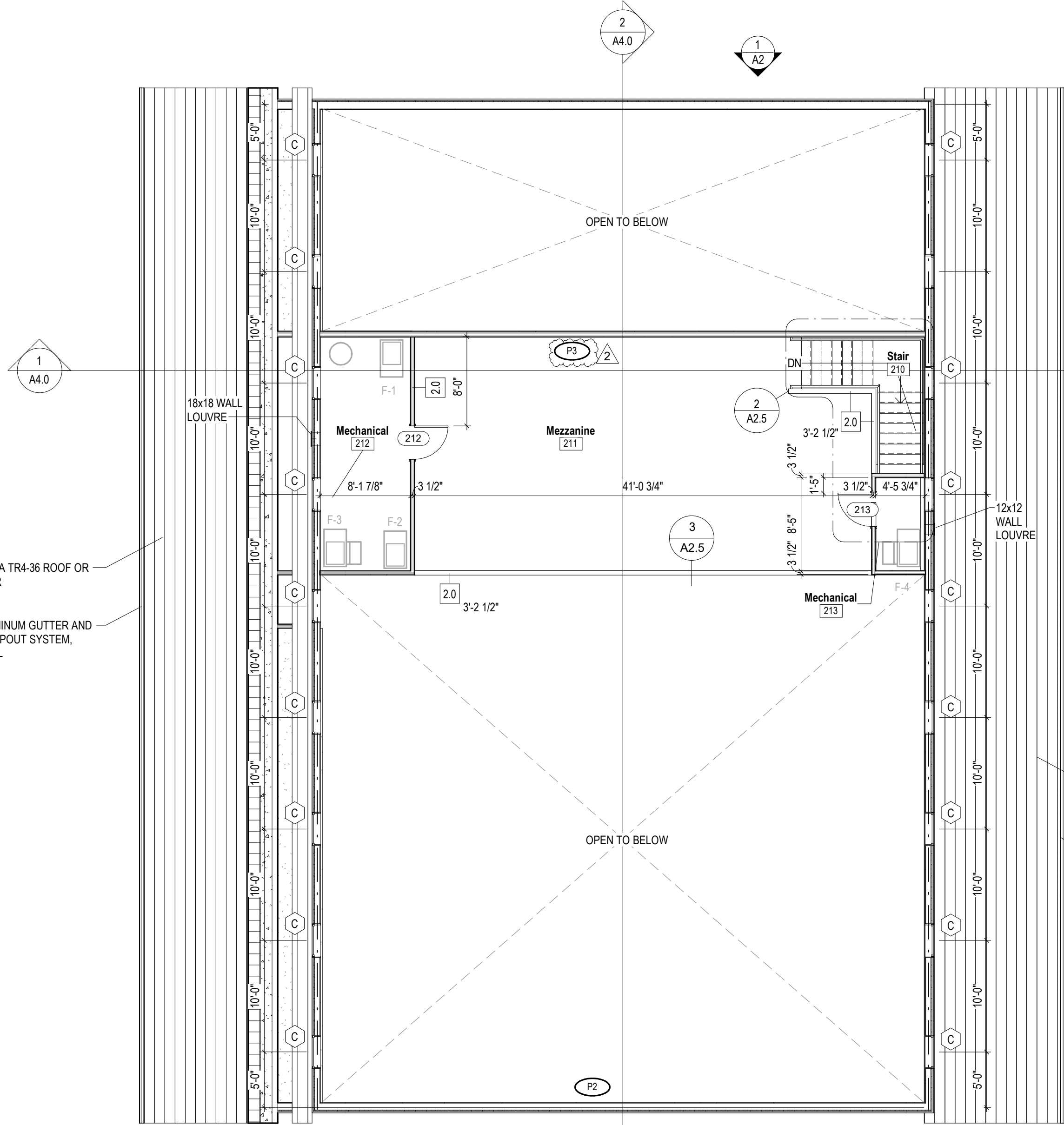
PROJECT NUMBER 25-028
DATE JULY 29, 2026
SCALE As indicated
SHEET NUMBER

A1.0



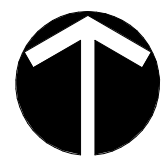
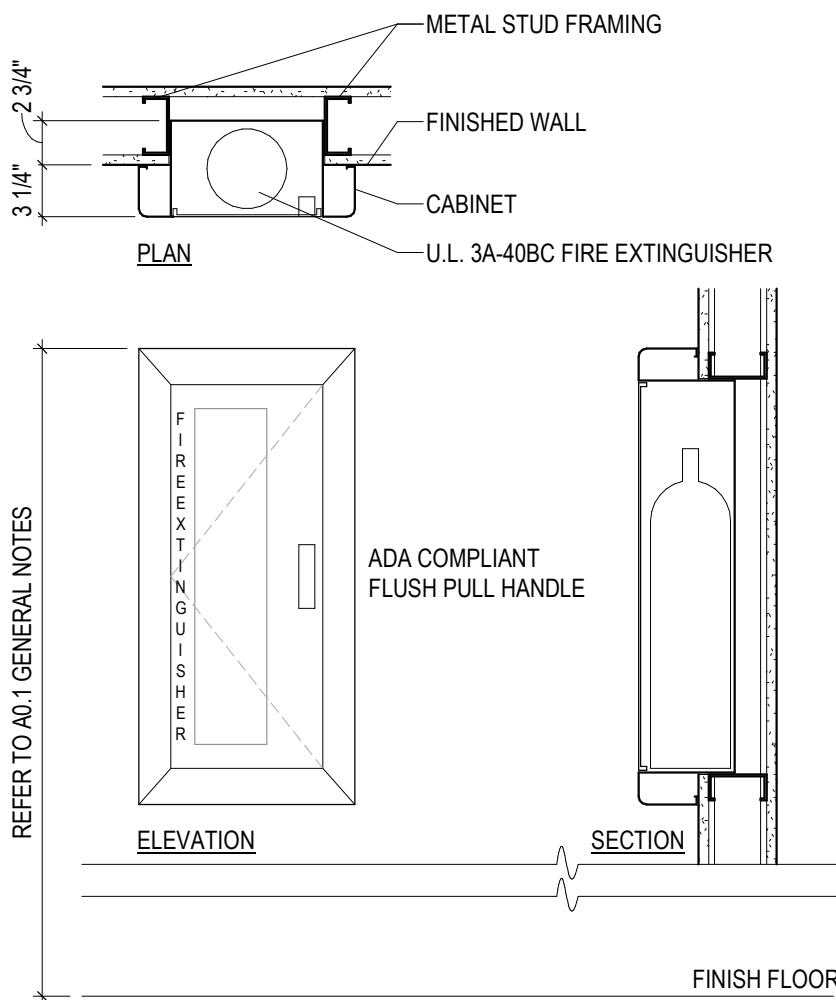
2 Second Floor Plan

A2.1 1/8" = 1'-0"



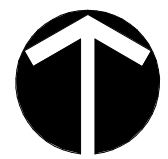
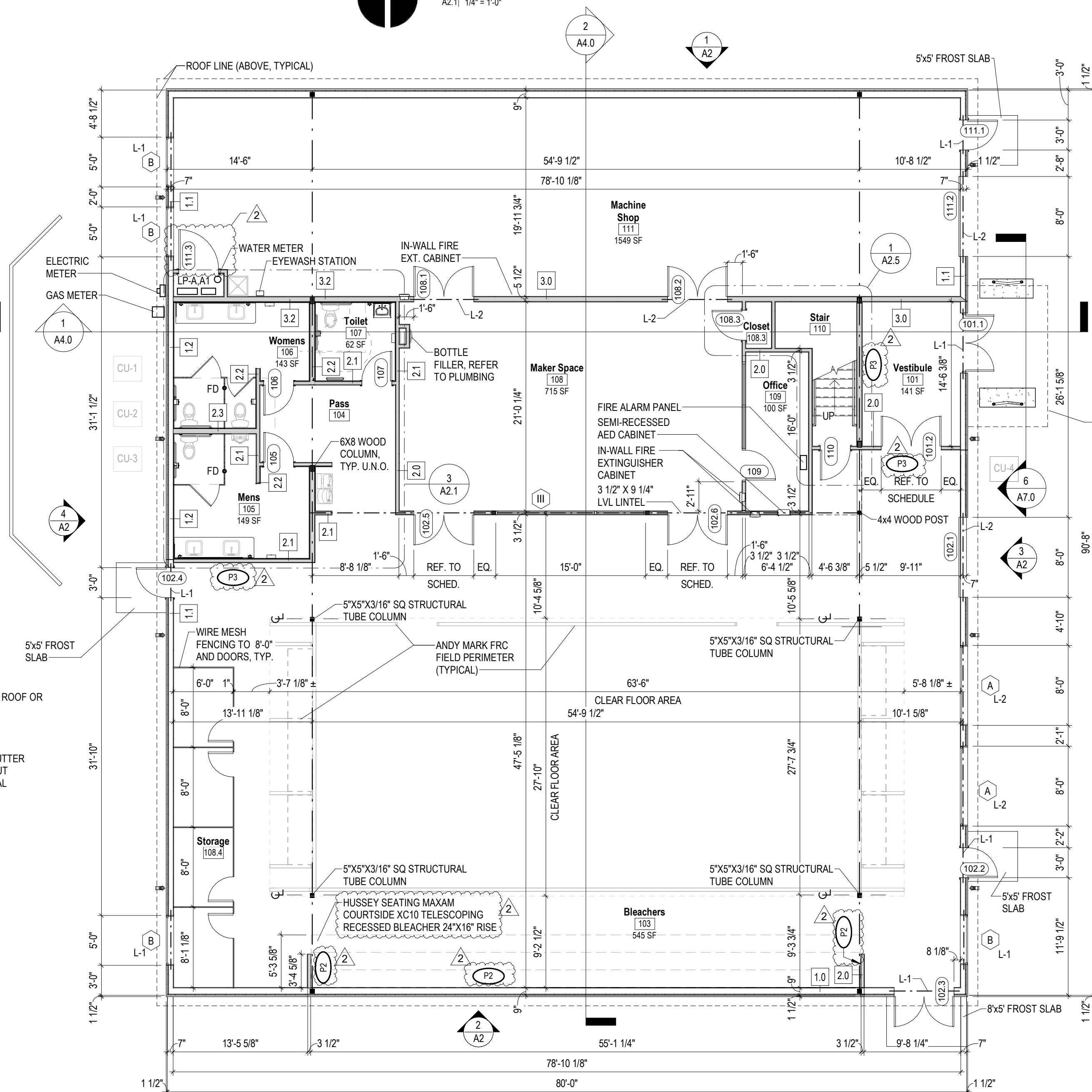
4 Fire Extinguisher Cabinet

A2.1 1" = 1'-0"



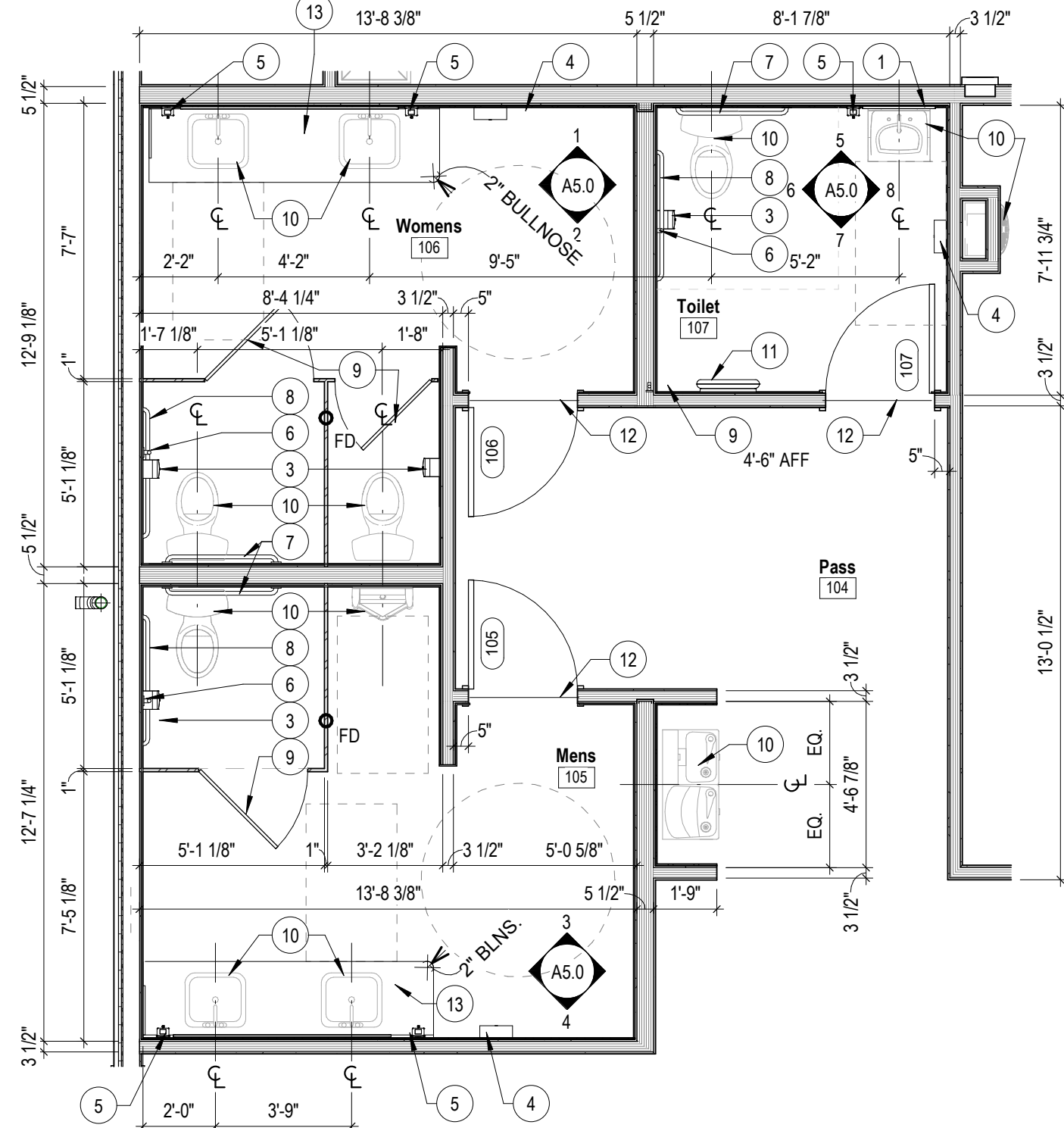
1 First Floor Plan

A2.1 1/8" = 1'-0"



Enlarged Toilet Rooms 105, 106, & 107

A2.1 1/4" = 1'-0"



- 24x36 WALL-HUNG MIRROR (B-2902436)
- 72x36 WALL-HUNG MIRROR (B-2902436)
- TOILET TISSUE DISPENSER (PROVIDER BY OWNER, INSTALLED BY CONTRACTOR)
- PAPER TOWEL DISPENSER (PROVIDER BY OWNER, INSTALLED BY CONTRACTOR)
- SOAP DISPENSER (PROVIDER BY OWNER, INSTALLED BY CONTRACTOR)
- 18" GRAB BAR (B-5806 SERIES)
- 36" GRAB BAR (B-5806 SERIES)
- 42" GRAB BAR (B-5806 SERIES)
- WALL HOOK (BOBRICK B-9542 MBLK)
- NEW PLUMBING FIXTURE - REFER TO PLUMBING
- VERTICAL BABY CHANGER (KOALA KARE KB301, GREY 01)
- THRESHOLD - LOCATED BENEATH DOOR LEAF
- SOLID SURFACE COUNTER TOP

Toilet Accessories Schedule

1/4" = 1'-0"

LINTELS	
L-1: (2) 2X10	
L-2: (3) 2X10	

- | | |
|-----|--|
| 1.0 | EXTERIOR WALL: 1-1/2" METAL PANEL ON 1" RIGID INSULATION ON 7/16" SHEATHING WITH 2x6 WOOD STUDS AT 16" O.C. CAVITY FILLED WITH FIBERGLASS BATT INSULATION WITH 5/8" GYPSUM BOARD INTERIOR SIDE |
| 1.1 | EXTERIOR WALL: 1-1/2" METAL PANEL ON 1" RIGID INSULATION ON 7/16" SHEATHING WITH 2x6 WOOD STUDS AT 16" O.C. CAVITY FILLED WITH FIBERGLASS BATT INSULATION WITH 5/8" GYPSUM BOARD INTERIOR SIDE |
| 1.2 | EXTERIOR WALL: 1-1/2" METAL PANEL ON 1" RIGID INSULATION ON 7/16" SHEATHING WITH 2x6 WOOD STUDS AT 16" O.C. CAVITY FILLED WITH FIBERGLASS BATT INSULATION WITH 5/8" GYPSUM BOARD WITH 1/2" WALL TILE INTERIOR SIDE |
| 2.0 | INTERIOR WALL: 5/8" GYPSUM BOARD EACH SIDE OF 2x4 WOOD STUDS AT 16" O.C. TO B.O. DECK OR AS NOTED. |
| 2.1 | INTERIOR WALL: 1/2" WALL TILE ON 5/8" GYPSUM BOARD ONE SIDE OF 2x4 WOOD STUDS AT 16" O.C. WITH 5/8" GYPSUM BOARD TO B.O. DECK OR AS NOTED. |
| 2.2 | INTERIOR WALL: 1/2" WALL TILE ON 5/8" GYPSUM BOARD EACH SIDE OF 2x4 WOOD STUDS AT 16" O.C. TO B.O. DECK OR AS NOTED. |
| 2.3 | INTERIOR WALL: 1/2" WALL TILE ON 5/8" GYPSUM BOARD EACH SIDE OF 2x6 WOOD STUDS AT 16" O.C. TO B.O. DECK OR AS NOTED. |
| 3.0 | INTERIOR WALL: 5/8" GYPSUM BOARD EACH SIDE OF 2x6 WOOD STUDS AT 16" O.C. TO B.O. DECK OR AS NOTED. |
| 3.1 | INTERIOR WALL: 1/2" WALL TILE ON 5/8" GYPSUM BOARD EACH SIDE OF 2x6 WOOD STUDS AT 16" O.C. TO B.O. DECK OR AS NOTED. |
| 3.2 | INTERIOR WALL: 1/2" WALL TILE ON 5/8" GYPSUM BOARD ONE SIDE OF 2x6 WOOD STUDS AT 16" O.C. TO B.O. DECK OR AS NOTED. |

Wall Types Legend

1/4" = 1'-0"

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REVISIONS	
9.11.26	Pre-Bid RFI
Date	Description

Project
ESSEXVILLE-HAMPTON PUBLIC
305 Pine Street, Essexville, MI 48732N
AND DESIGN

Drawing
First Floor Plan, Second Floor Plan and Enlarged Plans

DRAWN BY: LNM
CHECKED BY: JSF

PROJECT NUMBER 25-028

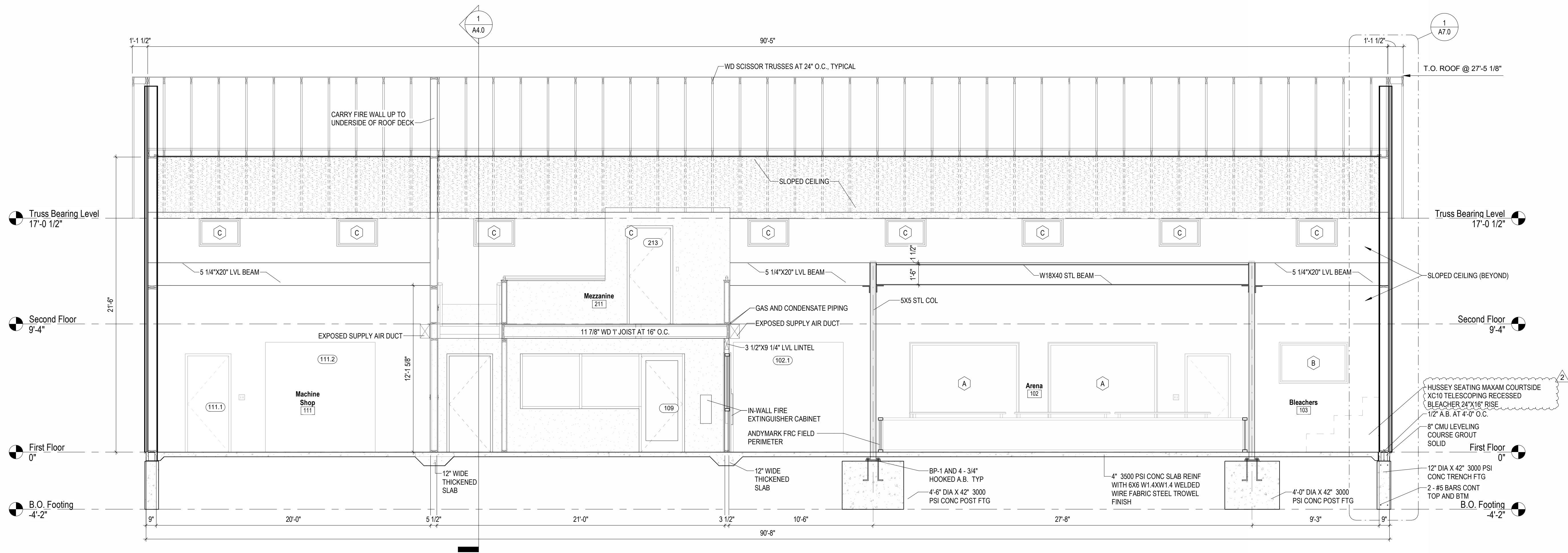
DATE JULY 29, 2026

SCALE As indicated

SHEET NUMBER

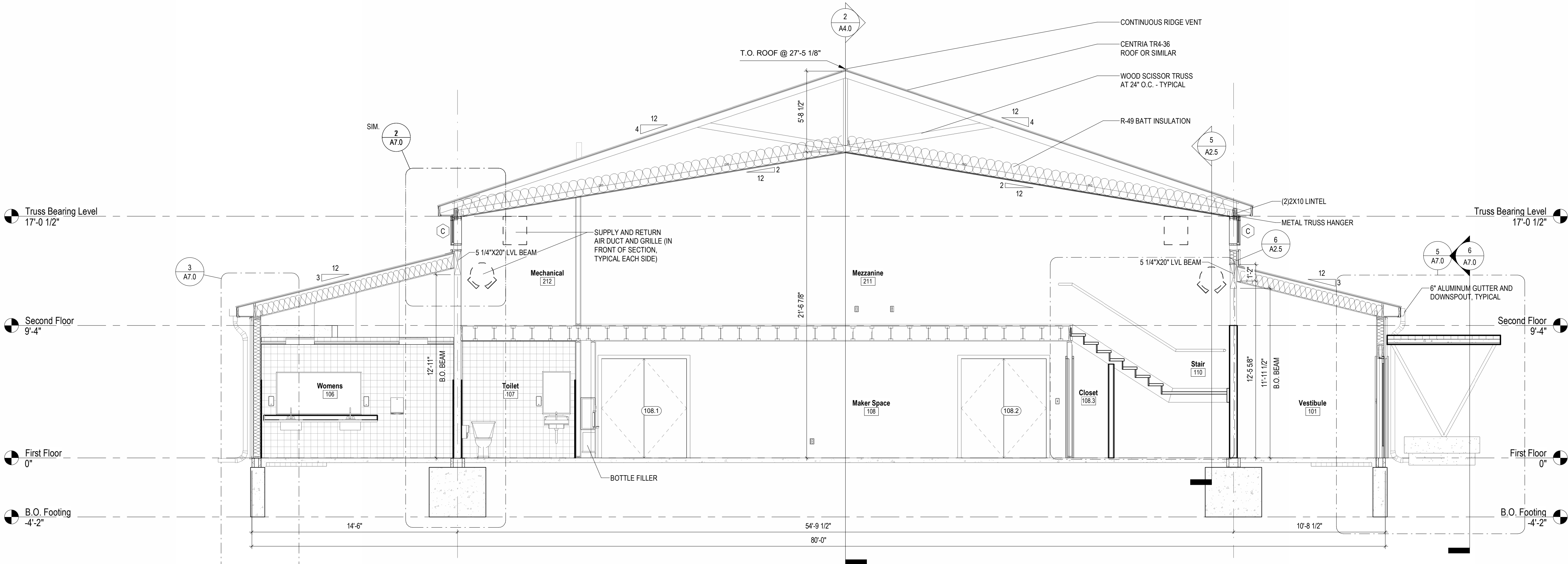
A2.1

SEAL OF ARCHITECT



2 Building Section - Longitudinal

A4.0 1/4" = 1'-0"



1 Building Section - Lateral

A4.0 1/4" = 1'-0"

SEAL OF ARCHITECT

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Date	Description
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Project
ESSEXVILLE-HAMPTON PUBLIC
305 Pine Street, Essexville, MI 48732N
AND DESIGN

Drawing
Building Sections

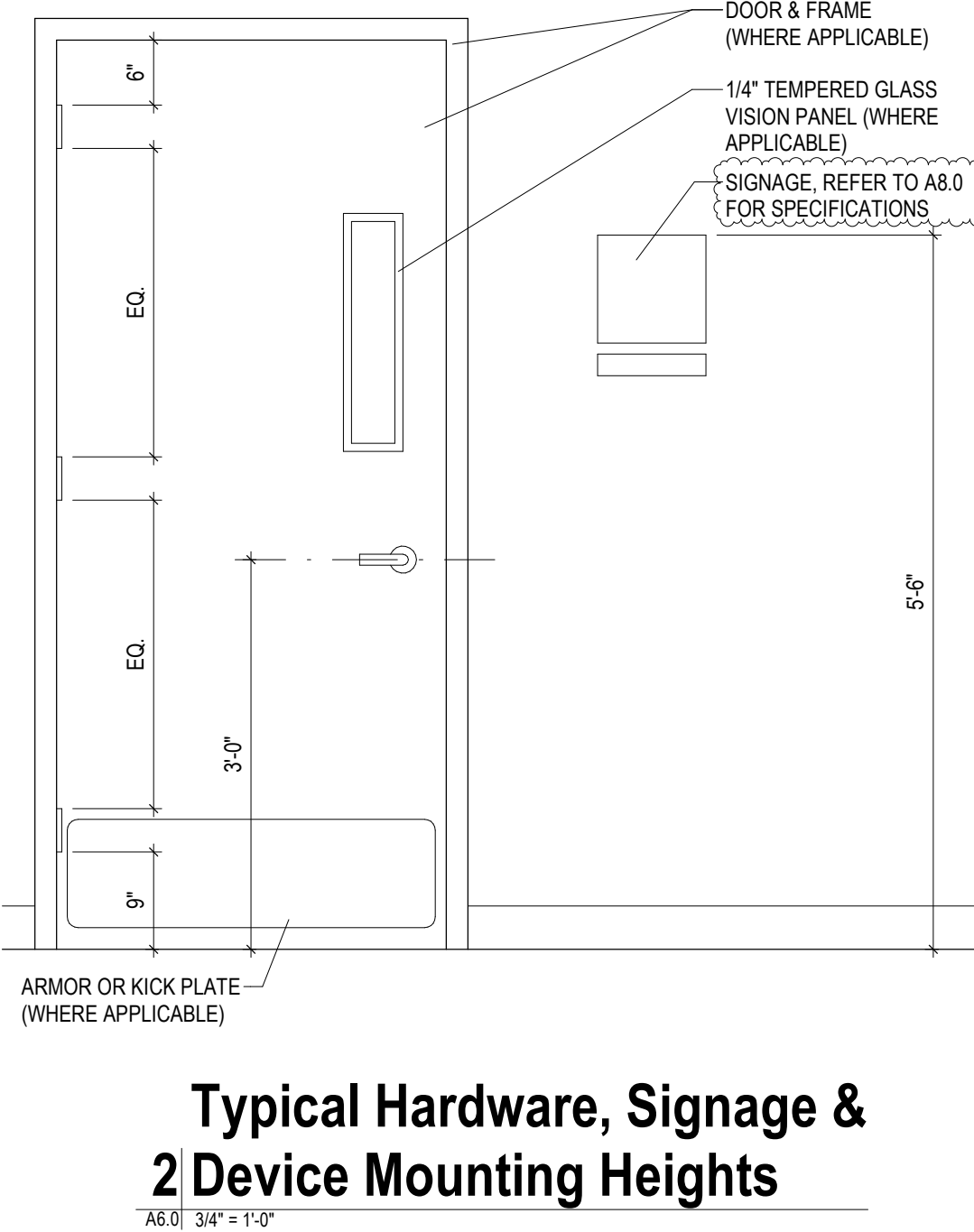
DRAWN BY: SJS
CHECKED BY: JSF

PROJECT NUMBER 25-028
DATE JULY 29, 2026
SCALE 1/4" = 1'-0"
SHEET NUMBER

A4.0

ROOM SCHEDULE									
ROOM NO.	ROOM NAME	FLOOR FINISH	BASE FINISH	EAST WALL	NORTH WALL	SOUTH WALL	WEST WALL	CEILING FINISH	COMMENTS
101	Vestibule	CPT-2	RESILIENT	GYP. BD. / GL.	GYP. BD.	GYP. BD.	GYP. BD.	GYP. BD.	
102	Arena	CPT-1	--	--	--	--	--	GYP. BD.	
103	Bleachers	S. CONC.	RESILIENT	GYP. BD.	GYP. BD. / GL.	GYP. BD.	GYP. BD.	GYP. BD.	
104	Press	S. CONC.	RESILIENT	GYP. BD.	GYP. BD.	GYP. BD. / --	GYP. BD. / CT	GYP. BD.	
105	Mens	S. CONC.	--	GYP. BD. / CT	GYP. BD. / CT	CT	GYP. BD. / CT	SAT-1	WILSONART SOLID SURFACE MORNING ICE BOD
106	Womens	S. CONC.	--	GYP. BD. / CT	CT	GYP. BD. / CT	GYP. BD. / CT	SAT-1	WILSONART SOLID SURFACE MORNING ICE BOD
107	Toilet	S. CONC.	--	GYP. BD. / CT	CT	GYP. BD. / CT	GYP. BD. / CT	SAT-1	WILSONART SOLID SURFACE MORNING ICE BOD
108	Maker Space	S. CONC.	RESILIENT	GYP. BD.	GYP. BD.	GYP. BD. / GL.	GYP. BD.	GYP. BD.	
108.3	Closet	S. CONC.	RESILIENT	GYP. BD.	GYP. BD.	GYP. BD.	GYP. BD.	GYP. BD.	
108.4	Storage	S. CONC.	RESILIENT	METAL MESH PANEL	METAL MESH PANEL	GYP. BD.	GYP. BD.	--	8 GA. WIRE MESH PANEL W/ 1-3/8" SQUARE OPENING, 6" FLOOR CLEARANCE. BASE ULINE H-5611-7.
109	Office	S. CONC.	RESILIENT	GYP. BD.	GYP. BD.	GYP. BD.	GYP. BD. / GL.	GYP. BD.	
110	Stair	S. CONC.	RESILIENT	GYP. BD.	GYP. BD.	GYP. BD.	GYP. BD.	GYP. BD.	
111	Machine Shop	S. CONC.	RESILIENT	GYP. BD.	GYP. BD.	GYP. BD.	GYP. BD.	GYP. BD.	
210	Stair	S. CONC.	RESILIENT	GYP. BD.	GYP. BD.	GYP. BD.	GYP. BD.	GYP. BD.	
211	Mezzanine	CPT-3	RESILIENT	GYP. BD.	GYP. BD.	GYP. BD.	GYP. BD.	GYP. BD.	
212	Mechanical	VINYL TILE	RESILIENT	GYP. BD.	GYP. BD.	GYP. BD.	GYP. BD.	GYP. BD.	
213	Mechanical	VINYL TILE	RESILIENT	GYP. BD.	GYP. BD.	GYP. BD.	GYP. BD.	GYP. BD.	

WINDOW SCHEDULE					
TYPE MARK	COUNT	WIDTH	HEIGHT	HEAD HEIGHT	COMMENTS
A	2	8'-0"	6'-0"	8'-0"	ALUMINUM FRAME
B	4	5'-0"	3'-0"	8'-0"	ALUMINUM FRAME
C	18	3'-0"	2'-0"	7'-8"	ALUMINUM FRAME

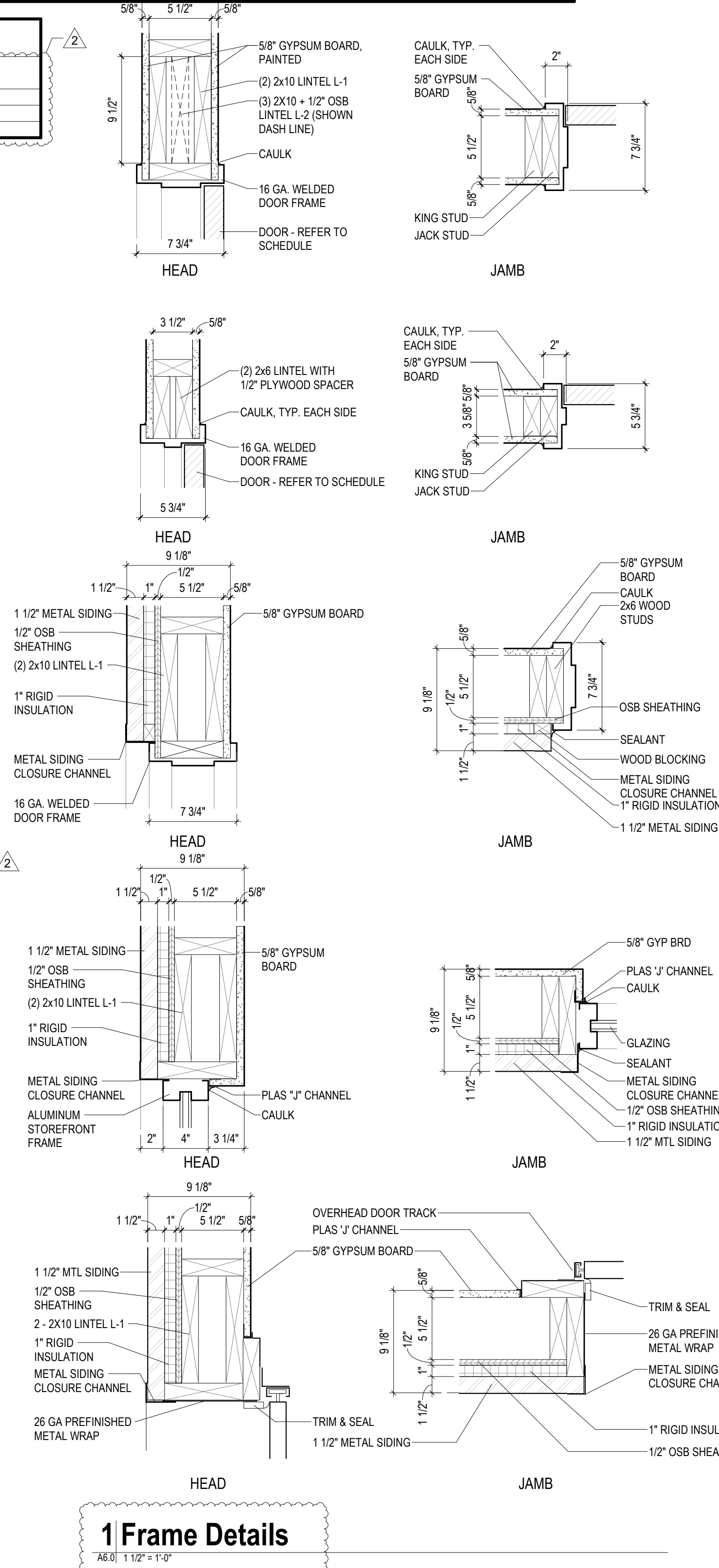


Typical Hardware, Signage & 2 Device Mounting Heights

FINISH SCHEDULE

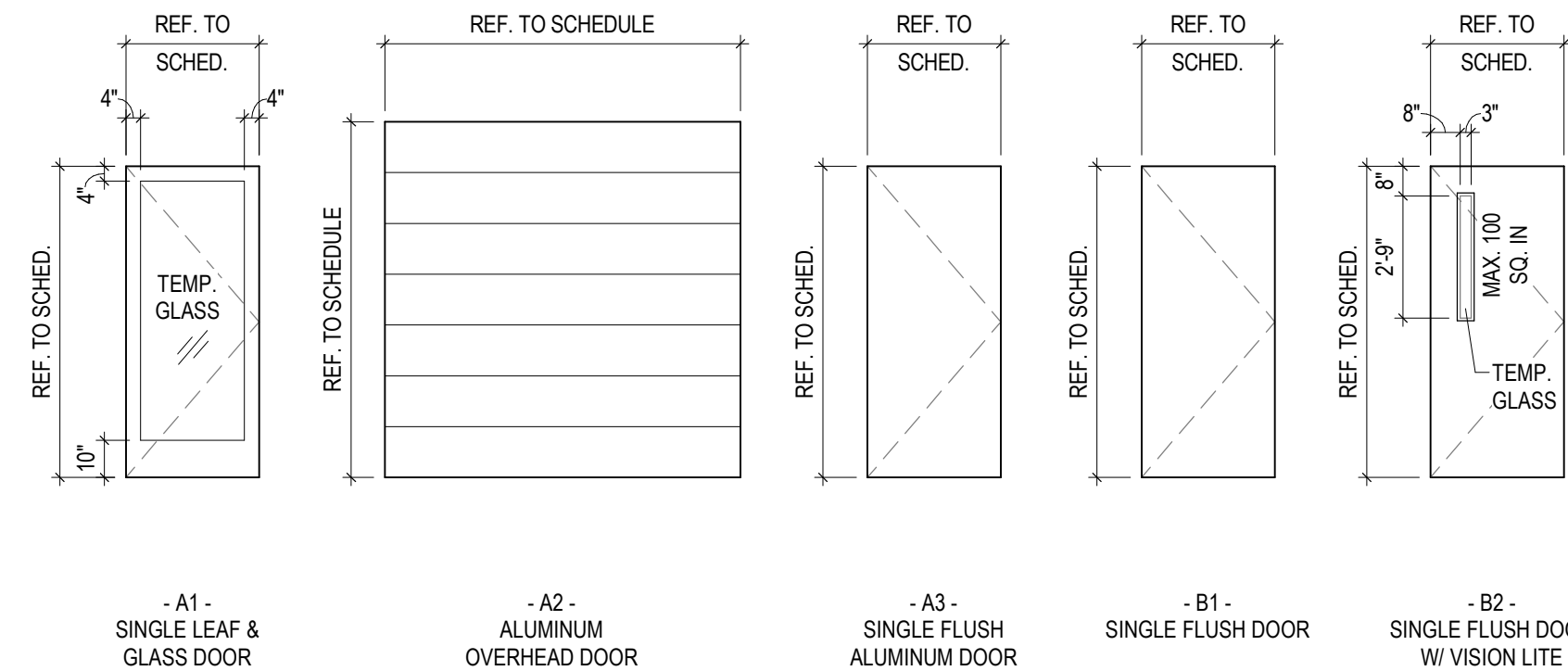
CARPET:	BASE:
CPT-1 CARPET TILE MANUF.: SHAW CONTRACT (PHILADELPHIA COMMERCIAL) STYLE: NEYLAND II COLOR: MEDALLION 66561 SIZE: BROADLOOM	RES ROPPE PINNACLE RUBBER 4" WALL BASE PROFILE: 4" TOE COLOR: TBD
CPT-2 CARPET TILE MANUF.: SHAW CONTRACT STYLE: PATH TILE COLOR: TBD SIZE: 24x24 PATTERN: ASHLAR	CT CERAMIC TILE MANUF.: MAYOLICA STYLE: ZELLIGE COLOR: TBD SIZE: 12x12
CPT-3 CARPET TILE MANUF.: SHAW CONTRACT STYLE: SURROUND STRATAWORX COLOR: TBD SIZE: 24x24 PATTERN: ASHLAR	CONTACT: ROURKE HAAS, GENESEE CERAMIC TILE (E) ROURKE.HAAS@GCTILE.COM (P) 810.516.7152
VINYL TILE: MANUF.: SHAW CONTRACT STYLE: FLOW 5.0 COLOR: TBD SIZE: 36X36	P-1 FIELD COLOR MANUF.: SHERWIN WILLIAMS COLOR: SW 6254 LAZY GRAY NO-VOC / EGG-SHELL
CONTACT: DREW PENNINGTON, SHAW CONTRACT GROUP (E) DREW.PENNINGTON@SHAWINC.COM (P) 248.310.9831	P-2 ACCENT COLOR MANUF.: SHERWIN WILLIAMS COLOR: SW 6244 NAVAL BLUE NO-VOC / EGG-SHELL
ACOUSTIC CEILING SYSTEMS: SAT-1 24" x 24" SQUARE LAY-IN CEILING TILE ARMSTRONGS "CORTEGA" WHITE ARMSTRONG PRELUDE 15/16" GRID (WHITE)	P-3 ACCENT COLOR MANUF.: SHERWIN WILLIAMS COLOR: CUSTOM COLOR - REFER TO BAY CITY LOCATION FOR DTLs NO-VOC / EGG-SHELL
	P-4 HOLLOW METAL DOOR/WINDOW FRAMES MANUF.: SHERWIN WILLIAMS COLOR: TBD LOWNO-VOC / SEMI-GLOSS
	PT-4 CEILING PAINT MANUF.: SHERWIN WILLIAMS COLOR: SW 7007 CEILING BRIGHT WHITE LOWNO-VOC / SEMI-GLOSS

Finish Schedule

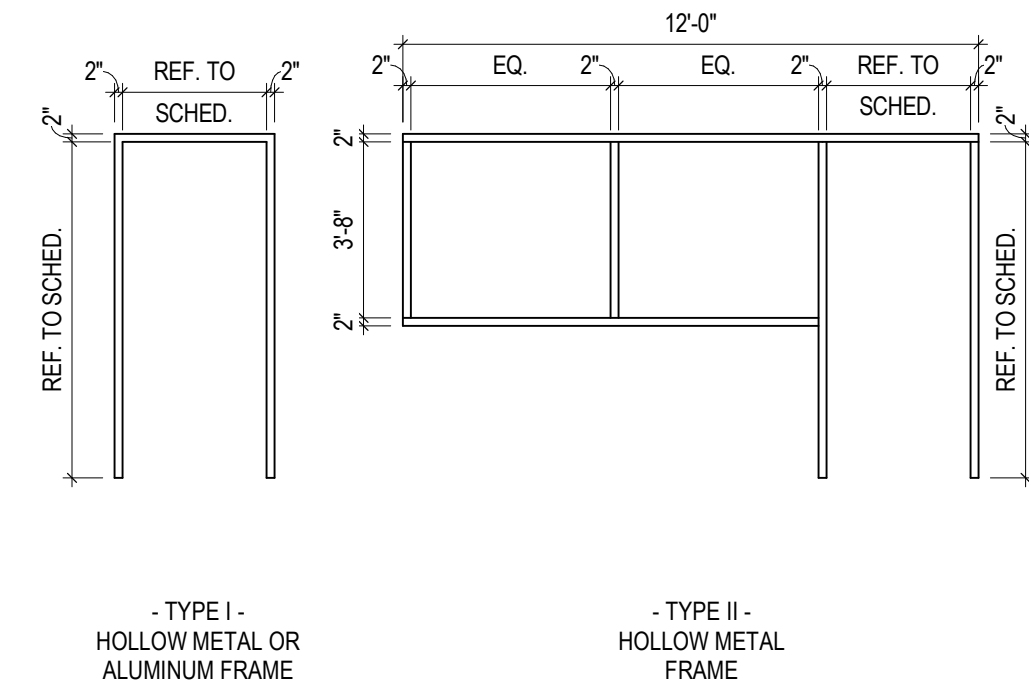


1 Frame Details

DOOR SCHEDULE									
DOOR NO.	WIDTH	DOOR HEIGHT	THICK.	MATERIAL	TYPE	MATERIAL	TYPE	FIRE RATING	HARDWARE
101.1	2'-10"	7'-0"	1 3/4"	ALUM.	A1	ALUM.	I	--	01
101.2	6'-0"	7'-0"	1 3/4"	H.M.	A1	H.M.	I	--	01
102.1	8'-0"	8'-0"	1 1/2"	ALUM.	A2	ALUM.	I	--	--
102.2	3'-0"	7'-0"	1 3/4"	ALUM.	A3	ALUM.	I	--	06
102.3	6'-0"	7'-0"	1 3/4"	ALUM.	A3	ALUM.	I	--	02
102.4	3'-0"	7'-0"	1 3/4"	ALUM.	A3	ALUM.	I	--	02
102.5	6'-0"	7'-0"	1 3/4"	H.M.	A1	H.M.	I	--	05
102.6	6'-0"	7'-0"	1 3/4"	H.M.	A1	H.M.	I	--	05
105	3'-0"	7'-0"	1 3/4"	H.M.	B1	H.M.	I	--	04
106	3'-0"	7'-0"	1 3/4"	H.M.	B1	H.M.	I	--	04
107	3'-0"	7'-0"	1 3/4"	H.M.	B1	H.M.	I	--	07
108.1	6'-0"	7'-0"	1 3/4"	H.M.	B2	H.M.	I	60 MIN.	05
108.2	6'-0"	7'-0"	1 3/4"	H.M.	B2	H.M.	I	60 MIN.	05
108.3	3'-0"	7'-0"	1 3/4"	H.M.	B1	H.M.	I	--	03
109	3'-0"	7'-0"	1 3/4"	H.M.	A1	H.M.	II	--	01
110	3'-0"	7'-0"	1 3/4"	H.M.	B2	H.M.	I	--	03
111.1	3'-0"	7'-0"	1 3/4"	ALUM.	A3	ALUM.	I	--	01
111.2	8'-0"	8'-0"	1 1/2"	ALUM.	A2	ALUM.	I	--	--
111.3	4'-0"	7'-0"	2"	H.M.	B1	H.M.	I	--	03
212	3'-0"	7'-0"	1 3/4"	ALUM.	A3	ALUM.	I	45 MIN.	03
213	3'-0"	7'-0"	1 3/4"	ALUM.	A3	ALUM.	I	45 MIN.	03



Door Type Legend



Frame Type Legend

Hardware Group No. 01

For use on Door #(s):
101.1, 101.2, 109
Provide each SL door(s) with the following:

ALL HARDWARE BY ALUMINUM DOOR MANUFACTURER

Hardware Group No. 02

For use on Door #(s):
102.4, 102.3

Provide each PR door(s) with the following:

QTY.	DESCRIPTION	CATALOG NUMBER	FINISH	MFR
6 EA	HINGE	5BB1HW 4.5 X 4.5 NRP	BBLK	IVE
1 EA	PANIC HARDWARE	24-C-C-LBR-718	622	FAL
1 EA	PANIC HARDWARE	24-C-EO-LBR	622	FAL
1 EA	SPIC CYLINDER	C853-7CCA	622	FAL
1 EA	SPIC CORE	C607	622	FAL
2 EA	90 DEG OFFSET PULL	8190EZHO	BLK	IVE
2 EA	SURFACE CLOSER	SC71A RWIPA	622	FAL
2 EA	WALL STOP	WS406/407CCV	BLK	IVE
2 EA	SILENCER	SR64	GRY	IVE

Hardware Group No. 03

For use on Door #(s):
108.3, 110, 212, 213

Provide each SGL door(s) with the following:

QTY.	DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3 EA	HINGE	5BB1 4.5 X 4.5	BBLK	IVE
1 EA	ENTRY / OFFICE LOCK	T511PD A	622	FAL
1 EA	SPIC CORE	C607	622	FAL
1 EA	SURFACE CLOSER	SC71A RWIPA	622	FAL
1 EA	WALL STOP	WS406/407CCV	BLK	IVE
3 EA	SILENCER	SR64	GRY	IVE

Hardware Group No. 04

For use on Door #(s):
105, 106

Provide each SGL door(s) with the following:

QTY.	DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3 EA	HINGE	5BB1HW 4.5 X 4.5	BBLK	IVE
1 EA	PUSH/PULL	SC81A RWIPA	622	FAL
1 EA	SURFACE CLOSER	8400 10" X AS REQ B-CS	BLK	IVE
1 EA	KICK PLATE	WS406/407CCV	BLK	IVE
1 EA	SILENCER	SR64	GRY	IVE

Hardware Group No. 05

For use on Door #(s):
102.5, 102.6, 108.1, 108.2

Provide each PR door(s) with the following:

QTY.	DESCRIPTION	CATALOG NUMBER	FINISH	MFR
6 EA	HINGE	5BB1 4.5 X 4.5	BBLK	IVE
1 EA	AUTO FLUSH BOLT	FB31P	BLK	IVE
1 EA	DUST PROOF STRIKE	DP2	622	FAL
1 EA	CLASSROOM LOCK	T381PD A	622	FAL
1 EA	SPIC CORE	C607	622	FAL
1 EA	COORDINATOR	COR X FL	711	IVE
2 EA	OH STOP	450S	622	GLY
2 EA	SURFACE CLOSER	SC81A RWIPA	622	FAL
2 EA	KICK PLATE	8400 10" X AS REQ B-CS	BLK	IVE
1 EA	GASKETING	488SBK PSA	BK	ZER
1 SET	MEETING STILE	8193BK (2 PCS - 1 SET)	BK	ZER

*OMIT @ NON-RATED DOORS

Hardware Group No. 06

For use on Door #(s):
102.2, 111.1

Provide each SGL door(s) with the following:

QTY.	DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3 EA	HINGE	5BB1HW 4.5 X 4.5 NRP	BBLK	IVE
1 EA	POWER TRANSFER	EPT10 CON	622	VON
1 EA	ELEC PANIC HARDWARE	RX-MEL-25-R-L-NL-LAT-CON 24 VDC	622	FAL
1 EA	SPIC CYLINDER	C853-7CCA	622	FAL
1 EA	SPIC CORE	C607	622	FAL
1 EA	SURFACE CLOSER	SC71A SS	622	FAL
1 EA	KICK PLATE	8400 10" X AS REQ B-CS	BLK	IVE
1 EA	RAIN DRIP	142BK	BK	ZER
1 SET	GASKETING	429BK-S	BK	ZER
1 EA	DOOR SWEEP	8198BK	BK	ZER
1 EA	THRESHOLD	655BK	BK	ZER
1 EA	WIRE HARNESS	CON-XXX	CON-XXX	VON
1 EA	WIRE HARNESS	CON-XXX	CON-XXX	VON
1 EA	CARD READER	BY SECURITY CONTRACTOR B/O		
1 EA	DOOR CONTACT	679-05HM	BLK	SCE
1 EA	POWER SUPPLY	PS302 300-4RL 120/240 VAC		VON
1 -	RISER AND POINT O POINT WIRING DIAGRAM			

ELECTRICAL OPERATIONAL DESCRIPTION:

DOOR NORMALLY CLOSED AND LOCKED. FROM THE SECURE SIDE PRESENTING VALID CREDENTIALS TO THE READER WILL MOMENTARILY RETRACT THE LATCH, ALLOWING ENTRY. AFTER ENTRY THE DOOR RETURNS TO THE CLOSED AND LATCHED POSITION. A KEY OVERRIDE WILL ALSO ENABLE ENTRY. FROM THE NON-SECURE SIDE, PRESSING THE PUSH PAD RETRACTS LATCH ALLOWING EGRESS. DURING A POWER OUTAGE, THE DOOR WILL REMAIN LOCKED AND WILL CONTINUE TO ALLOW FREE EGRESS AT ALL TIMES. DOOR POSITION SWITCH MONITORS DOOR FOR OPEN/CLOSED POSITION. REQUEST TO EXIT (RX) FOR REMOTE MONITORING.

Hardware Group No. 07

For use on Door #(s):
107

Provide each SGL door(s) with the following:

QTY.	DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3 EA	HINGE	5BB1 4.5 X 4.5	BBLK	IVE
1 EA	PRIVACY LOCK	W301S LAT	622	FAL
1 EA	SURFACE CLOSER	SC81A RWIPA	622	FAL
1 EA	KICK PLATE	8400 10" X AS REQ B-CS	BLK	IVE
1 EA	WALL STOP	WS406/407CCV	BLK	IVE
1 EA	SOUND SEAL	188SBK PSA	BK	ZER

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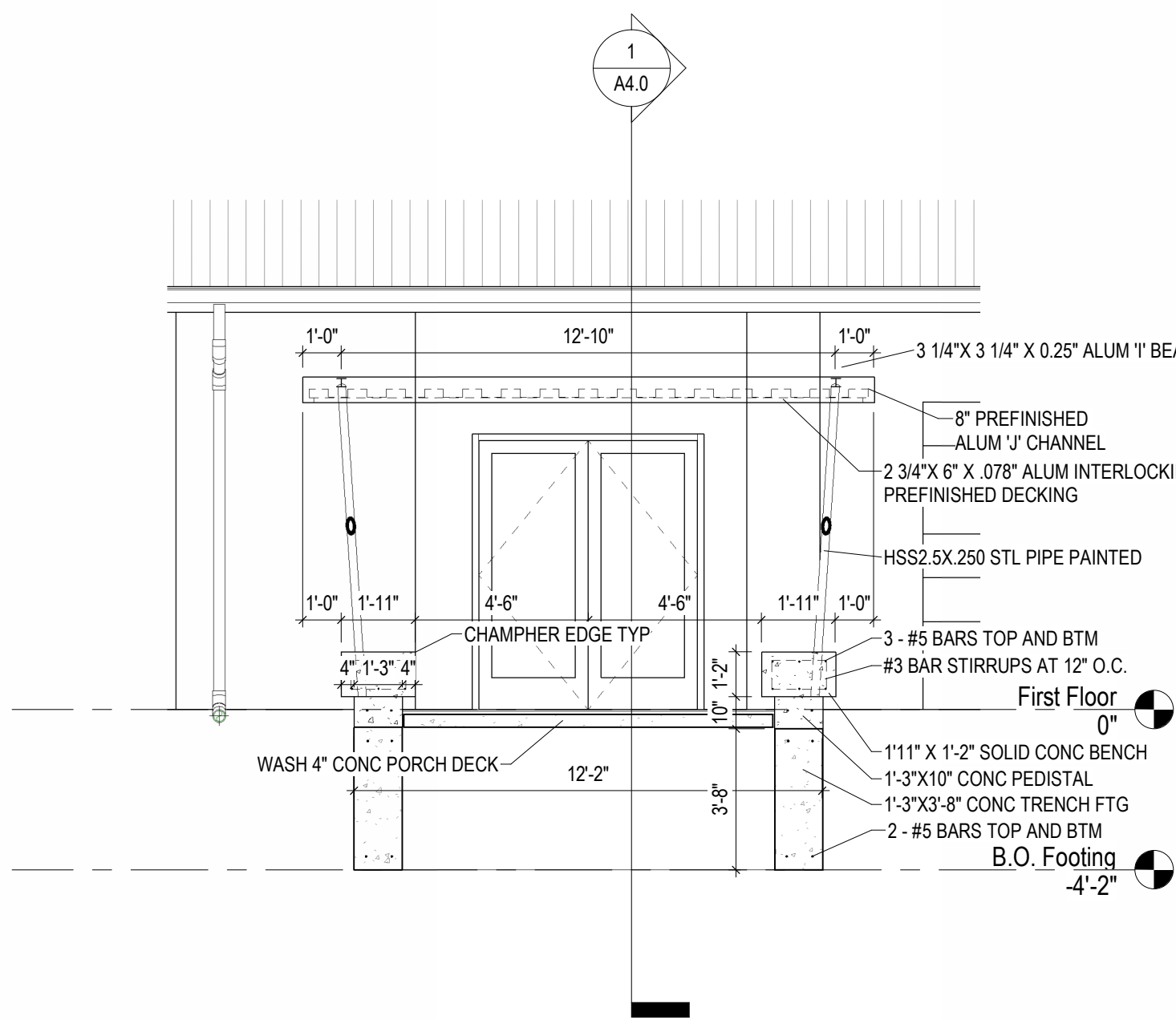
REVISIONS	
9.11.26	Pre-Bid RFI
Date	Description

Project
ESSEXVILLE-HAMPTON PUBLIC
305 Pine Street, Essexville, MI 48732N
AND DESIGN

DRAWN BY: SJS
CHECKED BY: JSF

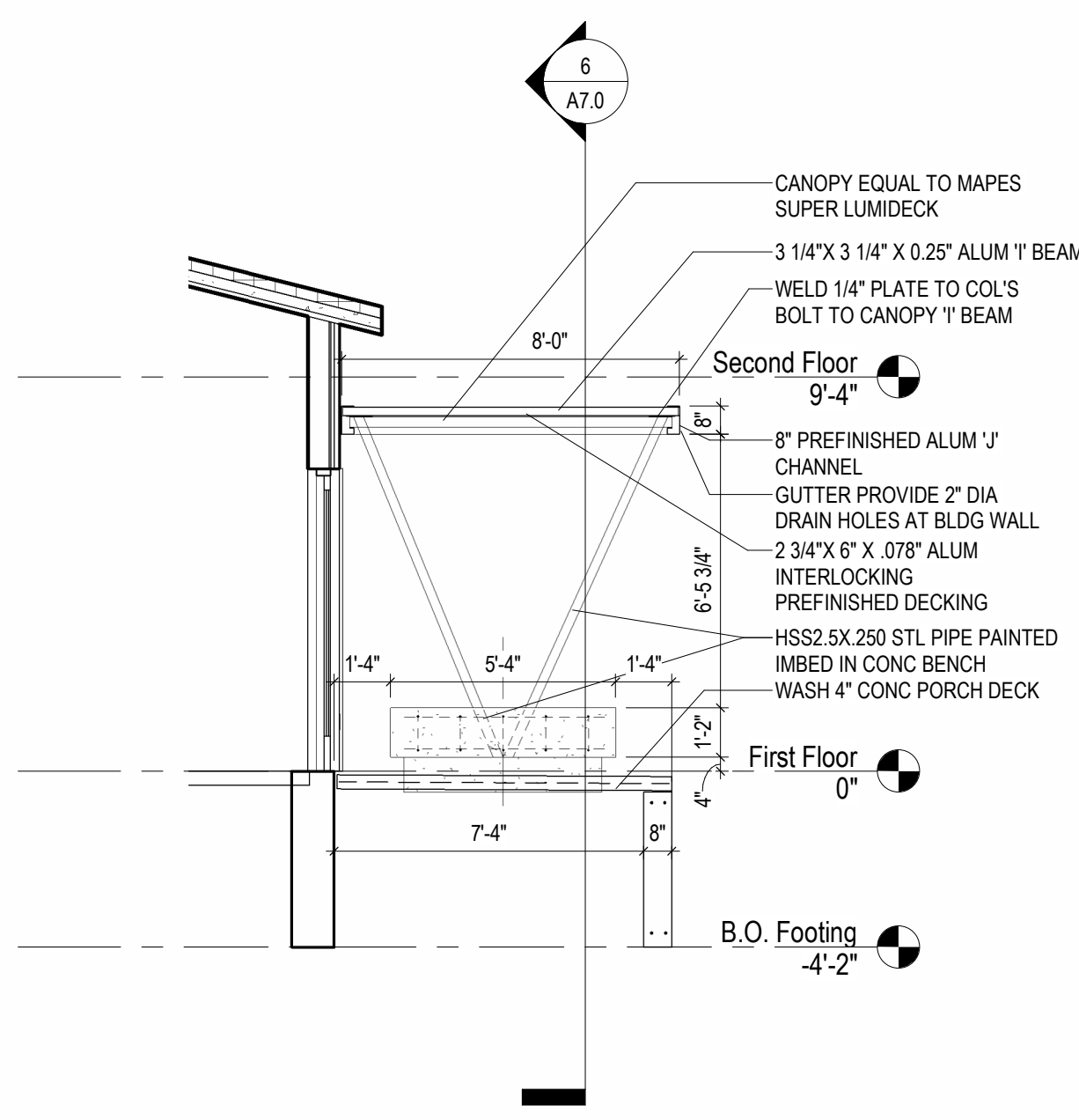
PROJECT NUMBER 25-028
DATE JULY 29, 2026
SCALE As indicated
SHEET NUMBER

A6.0



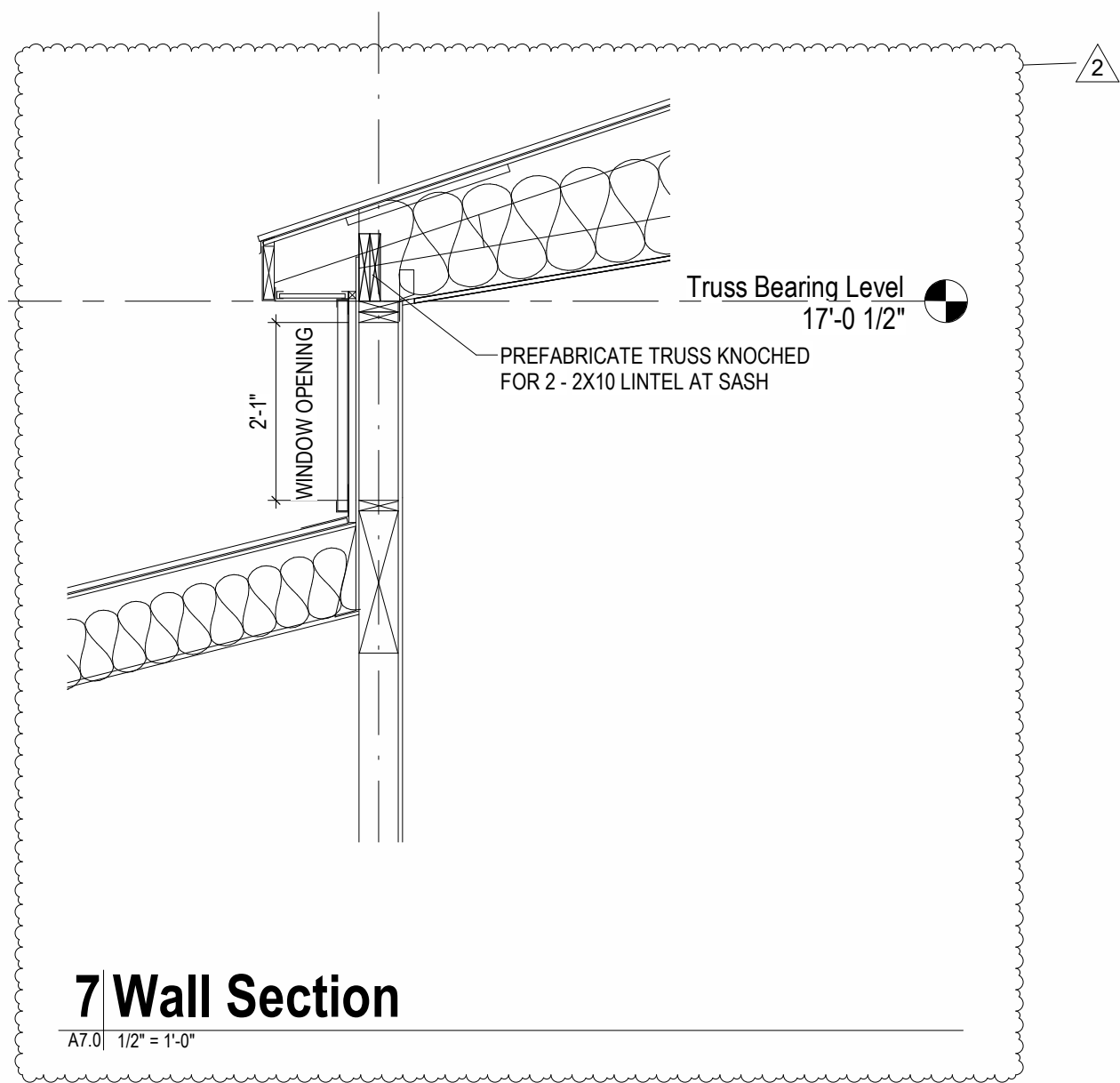
6 Canopy Elevation

A7.0 | 1/4" = 1'-0"



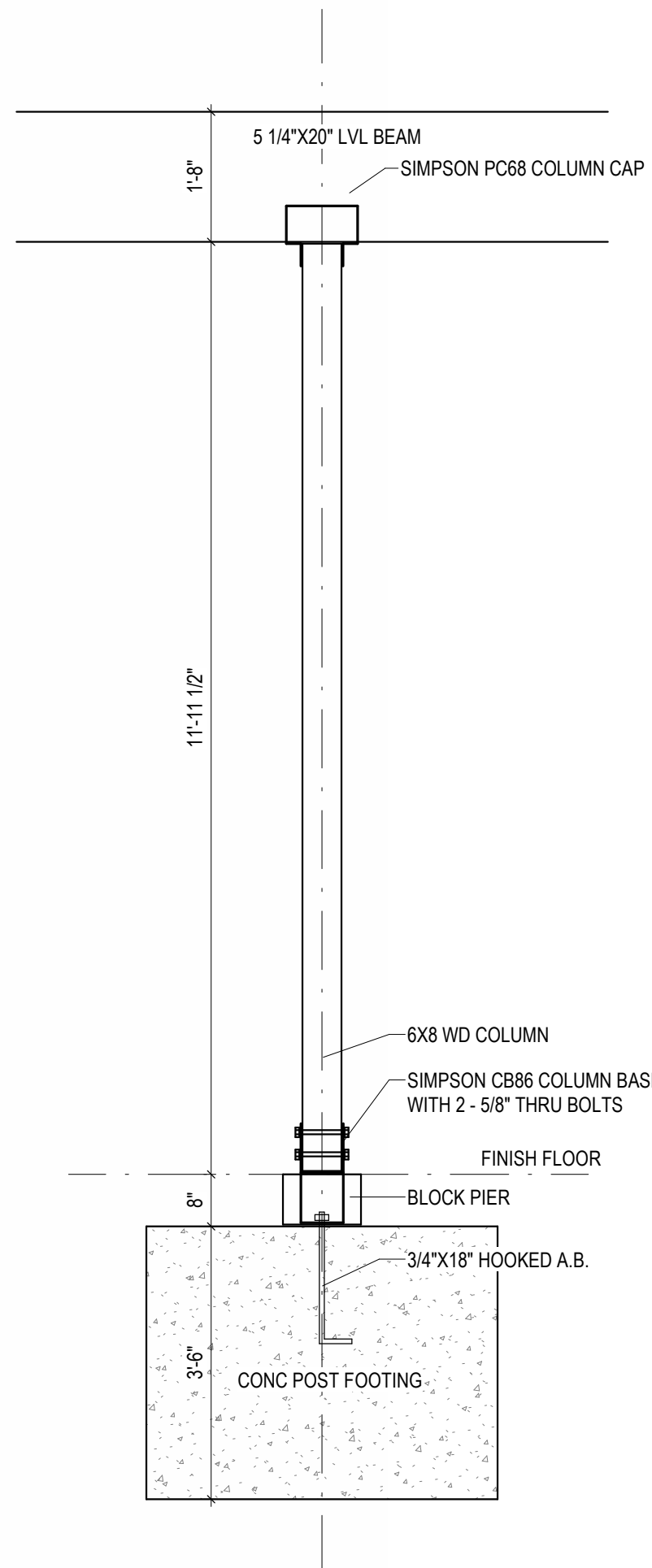
5 Canopy Section

A7.0 | 1/4" = 1'-0"



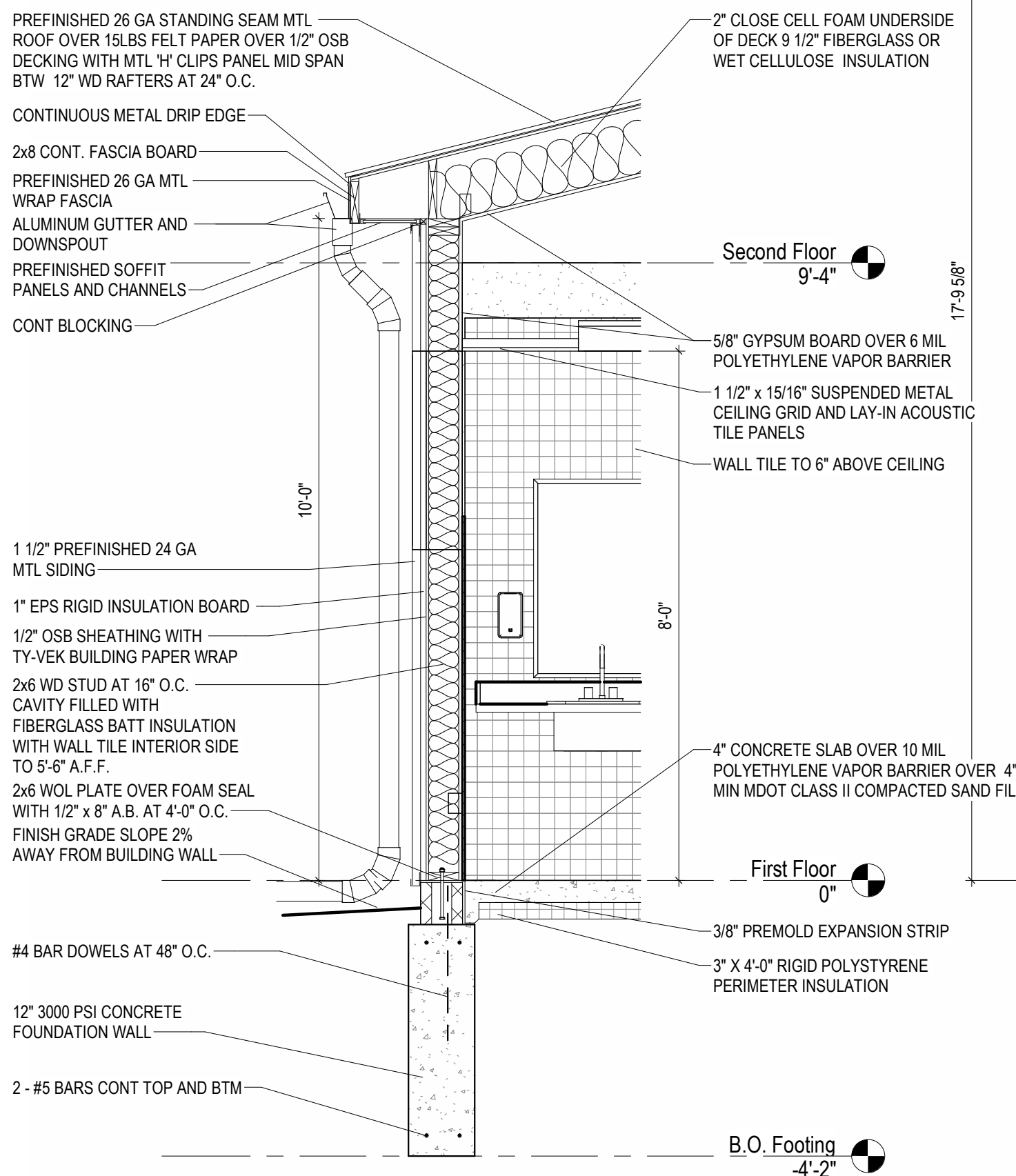
7 Wall Section

A7.0 | 1/2" = 1'-0"



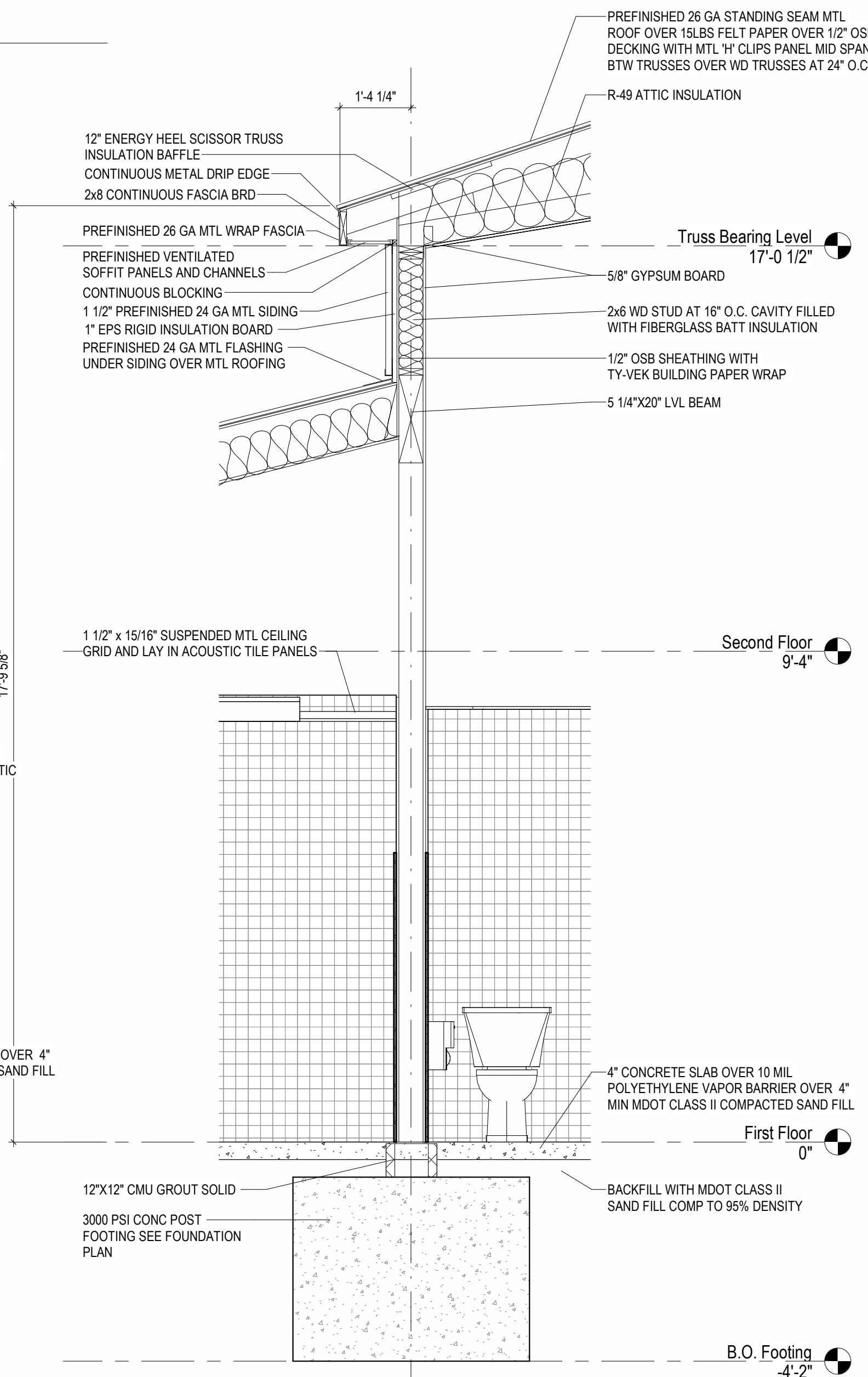
4 Columns

A7.0 | 1/2" = 1'-0"



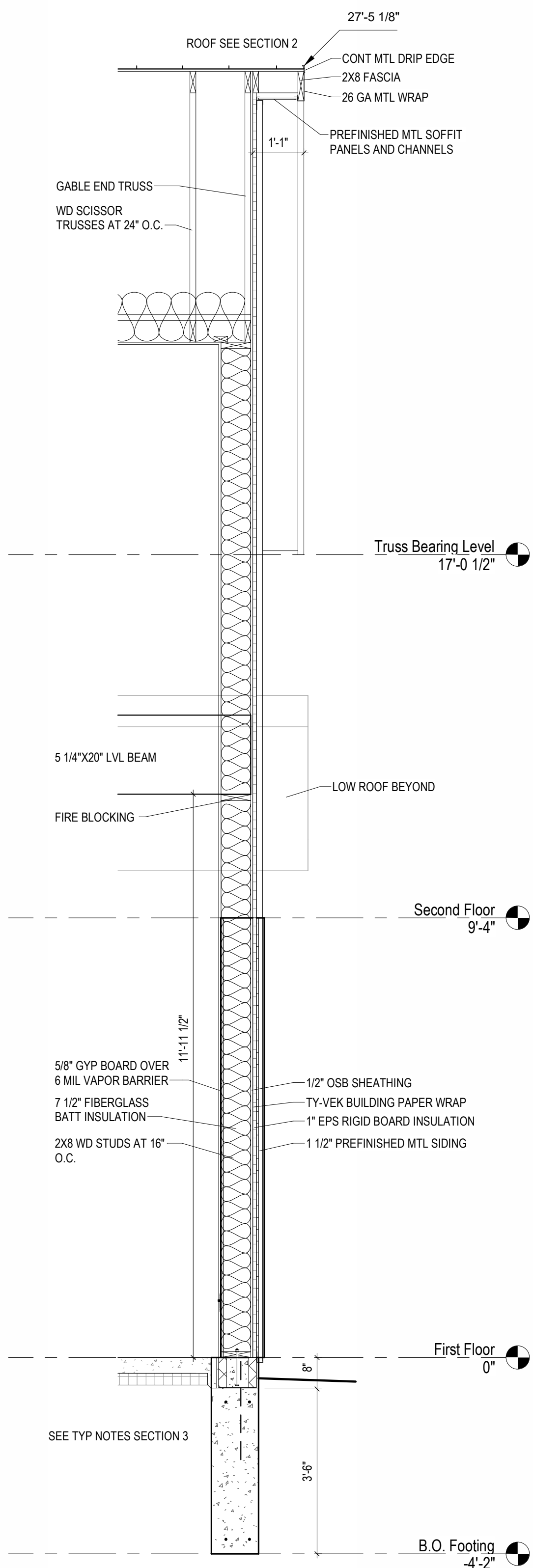
3 Wall Section

A7.0 | 1/2" = 1'-0"



2 Wall Section

A7.0 | 1/2" = 1'-0"



1 Wall Section

A7.0 | 1/2" = 1'-0"

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ARCHITECT



REVISIONS

Date	Description
9.11.26	Pre-Bid RFI

Project
ESSEXVILLE-HAMPTON PUBLIC
305 Pine Street, Essexville, MI 48732N
AND DESIGN

Drawing
Wall Sections

DRAWN BY: SJS
CHECKED BY: JSF

PROJECT NUMBER **25-028**
DATE **JULY 29, 2026**
SCALE **As indicated**
SHEET NUMBER

A7.0

GENERAL REQUIREMENTS

SUMMARY PLANS AND THESE SPECIFICATIONS DELINEATE MATERIALS, ASSEMBLIES, PERFORMANCES AND RESULTS DESIRED. IT IS NOT TO SPELL OUT MATERIALS AND METHODS IN DETAIL. CONTRACTOR TO PROVIDE A BUILDING READY FOR OCCUPANCY WITH ALL SYSTEMS FUNCTIONING.

SCOPE OF WORK INCLUDES ARCHITECTURAL. FURNISH ALL LABOR, MATERIALS, SUPERVISION SERVICES FOR A COMPLETE AND FINISHED PIECE OF WORK IN COMPLIANCE WITH PLANS AND SPECIFICATIONS.

PROJECT COORDINATION CONTRACTOR TO EXAMINE SITE, COMPARE WORK CALLED FOR WITH THE CONTRACT DOCUMENTS. IF ANY DISCREPANCIES FOUND, NOTIFY ARCHITECT.

CONTRACTOR TO COORDINATE ALL WORK FOR ALL TRADES USED ON PROJECT. PROVIDE SUPERVISION WITH COMPETENT PERSONNEL AT JOB SITE. TO PROVIDE AND PAY FOR ALL PERMITS, BONDS, INSPECTIONS, OR OTHER FEES REQUIRED BY LOCAL GOVERNING AUTHORITIES, AND PUBLIC UTILITIES. SUCH COSTS TO BE INCLUDED IN THE BID.

MATERIALS COMPLIANCE WITH INDUSTRY SPECIFICATIONS; FURNISH, INSTALL, AND/OR ERECT ALL MATERIALS AND SYSTEMS AS PER MANUFACTURER'S RECOMMENDATIONS, TESTING SOCIETY STANDARDS, AND GOVERNING CODES AND REGULATIONS.

SAFETY GENERAL SAFETY RULES AND REGULATIONS FOR CONSTRUCTION, AS PER CONSTRUCTION SAFETY ACT #89, PUBLIC ACTS OF 1963 AS REVISED AND/OR AMENDED, APPLY IN FULL TO THIS PROJECT, IN ADDITION TO OSHA AND MIOSHA REQUIREMENTS.

JOB SIGN C.M. SHALL CAUSE TO BE ERECTED, ON SITE WHERE DIRECTED, ONE JOB SIGN MTD 4'-0" ABOVE GRADE. SUCH SIGN TO BE 8'-0"x4'-0", OF 1/2" MINIMUM EXTERIOR GRADE PLYWOOD, AND PAINTED WITH 2 COATS EXTERIOR HOUSE PAINT. PROJECT INFORMATION, OWNER, CONTRACTOR, ARCHITECT TO BE LISTED ON SIGN

ALLOWANCES AS NECESSARY FOR THE PROGRESS OF WORK, THE C.M. WILL PROVIDE FOR EMPLOYMENT OF AN INDEPENDENT TESTING LABORATORY IN CONNECTION WITH THE ARCHITECT TO PERFORM VARIOUS TEST, SOIL BORINGS, SOIL COMPACTION, SANDFILL COMPACTION, CONCRETE QUALITY CONTROL, HIGH TENSILE STEEL TEST, AND OTHER TEST AS NOTED OR REQUIRED BY THESE SPECIFICATIONS OR JOB CONDITIONS.

GENERAL STRUCTURAL NOTES:

THE STRUCTURAL DRAWINGS SHALL BE USED IN CONJUNCTION WITH THE DRAWINGS OF ALL OTHER DISCIPLINES AND THE SPECIFICATIONS. THE CONTRACTOR SHALL VERIFY THE REQUIREMENTS OF OTHER TRADES AS TO SLEEVES, CHASES, HANGERS, INSERTS, ANCHORS, HOLES AND OTHER ITEMS TO BE PLACED OR SET IN THE STRUCTURAL WORK.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLYING WITH ALL SAFETY PRECAUTION AND REGULATIONS DURING THE WORK. THE ENGINEER WILL NOT ADVISE NOR ISSUE DIRECTION AS TO SAFETY PRECAUTION AND PROGRAMS.

THE STRUCTURAL DRAWINGS HEREIN REPRESENT THE FINISHED STRUCTURE. THE CONTRACTOR SHALL PROVIDE TEMPORARY GUYING AND BRACING REQUIRED TO ERECT AND HOLD THE STRUCTURE IN PROPER ALIGNMENT UNTIL ALL STRUCTURAL WORK AND CONNECTIONS HAVE BEEN COMPLETED. THE INVESTIGATION, DESIGN, SAFETY, ADEQUACY AND INSPECTION OF ERECTION BRACING, SHORING, TEMPORARY SUPPORTS, ETC. IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR.

THE ENGINEER SHALL NOT BE RESPONSIBLE FOR THE METHODS, TECHNIQUES, AND SEQUENCES OF PROCEDURES TO PERFORM THE WORK. THE SUPERVISION OF THE WORK IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR.

DRAWINGS INDICATE GENERAL AND TYPICAL DETAILS OF CONSTRUCTION, WHERE CONDITIONS ARE NOT SPECIFICALLY SHOWN, SIMILAR DETAILS OF CONSTRUCTION SHALL BE USED, SUBJECT TO APPROVAL BY THE ENGINEER.

ALL STRUCTURAL SYSTEMS WHICH ARE TO BE COMPOSED OF COMPONENTS TO BE FIELD ERECTED SHALL BE SUPERVISED BY THE SUPPLIER DURING MANUFACTURING, DELIVERY, HANDLING, STORAGE AND ERECTION IN ACCORDANCE WITH THE SUPPLIER'S INSTRUCTION AND REQUIREMENTS.

LOADING APPLIED TO THE STRUCTURE DURING THE PROCESS OF CONSTRUCTION SHALL NOT EXCEED THE SAFE LOAD-CARRYING CAPACITY OF THE STRUCTURAL MEMBERS. THE LIVE LOADINGS USED IN THE DESIGN OF THIS STRUCTURE ARE INDICATED IN THE "DESIGN CRITERIA NOTES". DO NOT APPLY ANY CONSTRUCTION LOADS UNTIL STRUCTURAL FRAMING IS PROPERLY CONNECTED TOGETHER AND UNTIL ALL TEMPORARY BRACING IS IN PLACE.

ALL ASTM AND OTHER REFERENCES ARE PER THE LATEST EDITIONS OF THESE STANDARDS, UNLESS OTHERWISE NOTED.

SHOP DRAWINGS AND OTHER ITEMS SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW PRIOR TO FABRICATION. ALL SHOP DRAWINGS SHALL BE REVIEWED BY THE GENERAL CONTRACTOR BEFORE SUBMITTAL. THE ENGINEER'S REVIEW IS TO BE FOR CONFORMANCE WITH THE DESIGN CONCEPT AND GENERAL COMPLIANCE WITH THE RELEVANT CONTRACT DOCUMENTS. THE ENGINEER'S REVIEW DOES NOT RELIEVE THE CONTRACTOR OF THE SOLE RESPONSIBILITY TO REVIEW, CHECK AND COORDINATE THE SHOP DRAWINGS PRIOR TO SUBMISSION. THE CONTRACTOR REMAINS SOLELY RESPONSIBLE FOR ERRORS AND OMISSIONS ASSOCIATED WITH THE PREPARATION OF SHOP DRAWINGS AS THEY PERTAIN TO MEMBER SIZES, DETAILS, DIMENSIONS, ETC.

SUBMIT SHOP DRAWINGS IN THE FORM OF DIGITAL (PDF) COPIES. IN NO CASE SHALL REPRODUCTION OF THE CONTRACT DRAWINGS BE USED AS SHOP DRAWINGS. AS A MINIMUM, SUBMIT THE FOLLOWING ITEMS FOR REVIEW:
A. CONCRETE MIX DESIGN(S)
B. STRUCTURAL STEEL SHOP DRAWINGS.
C. PRE-ENGINEERED WOOD TRUSSES

UNLESS OTHERWISE INDICATED, ALL ITEMS NOTED TO BE DEMOLISHED SHALL BECOME THE CONTRACTOR'S PROPERTY AND BE REMOVED FROM THE SITE.

CONTRACTORS SHALL VISIT THE SITE PRIOR TO BID TO ASCERTAIN CONDITIONS WHICH MAY ADVERSELY AFFECT THE WORK OR COST THEREOF.

GUARD/HANDRAIL LOADS = 50 PLF LOAD APPLIED IN ANY DIRECTION AT THE TOP AND 200 POUND CONCENTRATED LOAD APPLIED IN ANY DIRECTION AT ANY POINT ALONG THE TOP. LOADS NOT ASSUMED TO ACT CONCURRENTLY.

CONCRETE:

ALL CONCRETE CONSTRUCTION SHALL BE PERFORMED ACCORDING TO THE LATEST APPLICABLE EDITION OF THE ACI 301 "SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS" AND ACI 318 "BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE AND COMMENTARY." HOT WEATHER CONCRETING SHALL BE IN ACCORDANCE WITH ACI 305. COLD WEATHER CONCRETING SHALL BE IN ACCORDANCE WITH ACI 306.

ALL CONCRETE SHALL ATTAIN THE FOLLOWING 28 DAY COMPRESSIVE STRENGTHS. PROVIDE ENTRAINED AIR IN ALL EXPOSED CONCRETE
- FOOTINGS, GRADE BEAMS 3500 PSI
- SLAB ON GRADE 3500 PSI
- PIERS, FOUNDATION WALLS 4000 PSI

ALL REINFORCING STEEL SHALL CONFORM TO ASTM 615, GRADE 60. SPLICES FOR DEFORMED BARS SHALL BE CLASS B WITH APPLICABLE INCREASES FOR BAR SPACING, COVER, TOP BAR EFFECT ETC. PER ACI 318

PROVIDE BENT CORNER BARS IN ALL WALLS AND FOOTINGS OF THE SAME SIZE AND NUMBER AS THE CONTINUOUS REINFORCEMENT.

WIRE MESH SHALL CONFORM TO ASTM A185 WITH MINIMUM LAPS OF 8"

PROVIDE AIR ENTRAINED CONCRETE FOR EXTERIOR EXPOSURES.

PROVIDED CONCRETE SLABS OVER A 6 MIL POLYETHYLENE VAPOR BARRIER AND 4" OF POROUS FILL AS FOLLOWS:

ALL WELDED WIRE FABRIC SHALL BE IN ACCORDANCE WITH ASTM A-185. LAP ADJOINING PIECES AT LEAST ONE FULL MESH.

ANY AREAS TO BE FILLED SHALL THEN BE COMPACTED TO A MINIMUM OF 95 PERCENT OF MAXIMUM DENSITY AS DETERMINED IN ACCORDANCE WITH ASTM D 1557.

UNLESS OTHERWISE APPROVED, ALL WELDED WIRE FABRIC SHALL BE BLOCKED INTO THE POSITION INDICATED WITH PRECAST CONCRETE BLOCKS HAVING A COMPRESSIVE STRENGTH EQUAL TO THAT OF THE SLAB.

WALKWAYS AND OTHER EXTERIOR SLABS ARE NOT INDICATED ON THE STRUCTURAL DRAWINGS. SEE THE SITE PLAN AND ARCHITECTURAL DRAWINGS FOR LOCATIONS, DIMENSIONS, ELEVATIONS, JOINTING DETAILS AND FINISH DETAILS. PROVIDE 4" WALKS REINFORCED WITH 6x6 - W1 4XW1 4 WVF UNLESS OTHERWISE NOTED.

INCISED CONTROL JOINTS AT 5'-0 CENTERS, SIDE WALKS, OR NOT OVER 20'-0 APART, SLABS, USE PREMOULDED, COLORED GRAY EXPANSION JOINTS, 1/4" AT VERTICAL SURFACES, AND 30'-0 O.C SIDEWALKS. FOAMED VINYL, ASTM D-1752.

SLABS TO BE PERMANENTLY EXPOSED TO WEATHER SHALL BE AIR ENTRAINED TO 5% (+/- 1%) WITH AN ADMIXTURE THAT CONFORMS TO ASTM C-260.

THE USE OF POLYPROPYLENE FIBERS (IN LIEU OF WELDED WIRE FABRIC) IS PROHIBITED WITHOUT THE WRITTEN AUTHORIZATION OF THE ENGINEER.

SEE THE ARCHITECTURAL DRAWINGS FOR EXACT LOCATIONS OF DEPRESSED SLAB AREAS

AND DRAINS. SLOPE SLAB TO DRAINS WHERE SHOWN.

ALL CONCRETE SHALL MEET ASTM C-94.74, "READY-MIXED CONCRETE". ONE COPY OF EACH TRIP TICKET, SHOWING MIX, FIELD WATER, TIME OF DELIVERY WILL BE PROVIDED.

CONCRETE CURING IS TO COMPLY WITH THE REQUIREMENT OF ACI 318. COMPLY WITH ACI STANDARD "RECOMMENDED PRACTICE FOR COLD WEATHER CONCRETING".

CURING COMPOUND: ASTM C-309 TRANSLUCENT COMPOUND BECOMING INCONSPICUOUS IN 7 DAYS.

ALL CONCRETE SHALL BE PLACED IN A MANNER CONSISTENT WITH GOOD PRACTICE STANDARDS AS ESTABLISHED IN THE "RECOMMENDED PRACTICE FOR MEASURING, MIXING AND PLACING CONCRETE", ACI 614-59 AND ACI CODE 301.

FINISH INTERIORS - STEEL TROWEL. EXTERIOR - FLOAT/BROOM FINISH.

PERIMETER INSULATION, 1-1/2" ESB, 4'-0 WIDE X 3" THICK.

CONCRETE SHALL BE TESTED BY AN INDEPENDENT TESTING AGENCY. A SET OF (3) CONCRETE TEST CYLINDERS SHALL BE MADE AND TESTED FOR COMPRESSION STRENGTH.

AT 7 AND 28 DAYS FOR EVERY 50 CUBIC YARDS OF CONCRETE CAST, ALSO SLUMP AND UNIT WEIGHT TESTS SHALL BE PERFORMED EVERY OTHER TRUCK LOAD.

CONTRACTOR TO PROVIDE VERIFICATION AND INSPECTION OF CONCRETE CONSTRUCTION PER 2015 MBC CODE TABLE 1705.3

MASONRY

HOLLOW CONCRETE MASONRY UNITS, ASTM C-90. USE TYPE "M" MORTAR, ASTM C-270, FOR FOUNDATION WALLS.

MORTAR IN CONTACT WITH EARTH, FOUNDATION WALLS ONLY, WILL CONFORM TO "PROPORTION SPECIFICATIONS", ASTM C-270, MORTAR FOR UNIT MASONRY, TYPE "M", WATERPROOF, 2500 PSI MINIMUM STRENGTH.

PORTLAND CEMENT SHALL MEET ASTM C-150, "PORTLAND CEMENT", TYPE 1.

HYDRATED LIME SHALL MEET ASTM C-207, TYPE "S".

AGGREGATES FOR MORTAR/MASON'S SAND MEETING ASTM C-144. PROVIDE FROM SINGLE SOURCE FOR DURATION OF PROJECT.

NATIONAL CONCRETE MASONRY ASSOCIATION (NCMA), "SPECIFICATIONS FOR THE DESIGN AND CONSTRUCTION OF LOAD-BEARING CONCRETE MASONRY", LATEST ISSUE IN USE.

SUBCONTRACTOR SHALL INSPECT CONCRETE FOOTINGS AND FOUNDATIONS, AND REPORT CONDITIONS AFFECTING CORRECT INSTALLATIONS OF HIS WORK. ONCE COMMENCING WORK, HE SHALL BE HELD RESPONSIBLE FOR CONDITIONS FOUND.

LAY FULL MORTAR COVERAGE ON FOUNDATION BED, OR DAMP PROOF COURSE SET IN MORTAR FOR STARTING JOINT. PROVIDE FULL MORTAR COVERAGE ON FACE SHELLS & ON WEBS SURROUNDING CELLS TO BE GROUTED.

SET LINTELS, ANCHOR BOLTS AND BEARING PLATES, SUPPLIED BY OTHERS, IN FULL BED OR MORTAR. TOOL JOINTS TO PRODUCE A SLIGHTLY CONCAVE PROFILE UNLESS DETAILED OTHERWISE.

CONTRACTOR TO PROVIDE VERIFICATION AND INSPECTION OF MASONRY CONSTRUCTION PER 2015 MBC CODE SECTION 1705.4

STRUCTURAL STEEL NOTES:

ALL DETAILING, FABRICATION AND ERECTION SHALL CONFORM TO THE LATEST REVISION OF THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC) "SPECIFICATION FOR STRUCTURAL STEEL FOR BUILDING ALLOWABLE STRESS DESIGN" AND AISC "CODE OF STANDARD PRACTICE STEEL BUILDINGS & BRIDGES."

STRUCTURAL STEEL MATERIAL SPECIFICATIONS:
W AND WT SHAPES: ASTM A992, GRADE 50
MS, SHAPES AND PLATES: ASTM A36, Fy= 36 KSI
PIPE ASTM A53, GRADE B, TYPE E OR S, Fy=36 KSI
HOLLOW STRUCTURAL SECTIONS: ASTM A500, GRADE B, Fy=36 KSI

ALL COLUMN ANCHOR RODS SHALL BE ASTM F1554, Fy=36 KSI

ALL CONNECTIONS SHALL BE SHEAR TYPE CONNECTIONS AND DESIGNED BY THE FABRICATOR FOR THE FACTORED SHEAR FORCES INDICATED ON PLAN IN ACCORDANCE WITH THE AISC SPECIFICATIONS FOR LOAD AND RESISTANCE FACTOR DESIGN. MINIMUM BOLT DIAMETER SHALL BE 3/4" UNLESS OTHERWISE NOTED. ALL BOLTS SHALL BE SHEAR/ BEARING TYPE BOLTS AND BE "SNUG-TIGHT".

PROVIDE "SPLI-CRITICAL" CONNECTIONS AT BRACING, WHERE BOLTS ARE IN TENSION AND AT MOMENT CONNECTIONS

ALL WELDING SHALL BE IN ACCORDANCE WITH AMERICAN WELDING SOCIETY (AWS) D1.1 "STRUCTURAL WELDING CODE". E70xx ELECTRODES CONFORMING TO AWS A5.1 OR A5.5 SHALL BE USED FOR SHIELDED METAL ARC METHOD AND F7X-EXXX FLUX - ELECTRODE COMBINATION CONFORMING TO AWS A5.17 FOR SUBMERGED ARC METHOD

HOLES IN STEEL SHALL BE DRILLED OR PUNCHED. ALL SLOTTED HOLES SHALL BE PROVIDED WITH SMOOTH EDGES. BURNING OF HOLES AND TORCH CUTTING AT THE SITE IS NOT PERMITTED.

UNLESS OTHERWISE NOTED, ALL STRUCTURAL STEEL PERMANENTLY EXPOSED TO VIEW SHALL BE SHOP PAINTED WITH ONE COAT OF SSPC 15-68, TYPE 1 (RED OXIDE) PAINT.

THE STRUCTURAL STEEL ERECTOR SHALL PROVIDE ALL TEMPORARY GUYING AND BRACING (SEE "GENERAL STRUCTURAL NOTES").

GROUT REQUIRED UNDER COLUMN BASE PLATES AS SHOWN IN THE DETAILS SHALL BE A STANDARD NON-SHRINK GROUT SUCH AS "SONOGROUT 10K" BY SONNEBORN INC. CONCRETE MASONRY

CONTRACTOR TO PROVIDE VERIFICATION AND INSPECTION OF STEEL CONSTRUCTION PER 2015 MBC CODE SECTION 1705.2

WOOD FRAMING

DIMENSIONAL FRAMING MATERIAL SHALL BEAR THE GRADE MARK OF AN ALSO APPROVED AGENCY AND SHALL HAVE MET THE REQUIREMENTS FOR:

A. PLATES AND BLOCKING - HEM FIR No. 2 OR BETTER

B. REFER TO PLANS FOR THE LOAD BEARING STUD WALL SPECIFICATIONS.

ROOF SHEATHING AT THE SLOPED ROOF AREAS SHALL BE 1/2 INCH APA RATED WITH A PANEL SPAN RATING OF 32/16 AND SHALL BE EXTERIOR GRADE. PROVIDE H CLIPS MID SPAN BETWEEN TRUSSES. GAP BETWEEN 4 X 8 SHEETS

NAIL ROOF DECK TO SUPPORTS WITH 8d NAILS SPACED AT 6 INCHES O. C. AT SUPPORTED EDGES AND AT 12 INCHES O.C. AT INTERMEDIATE SUPPORTS.

WALL SHEATHING: 1/2" OSB PLYWOOD, EXPOSURE I.

ALL FRAMING SHALL BE ANCHORED TO SUPPORTS USING SIMPSON STRONG TIE CONNECTORS OR EQUAL. SEE DETAILS FOR SPECIFIC REQUIREMENTS.

ALL NAILS FOR NAILING OF STRUCTURAL LUMBER SHALL BE COMMON NAILS. ALL NAILING SHALL COMPLY WITH THE RECOMMENDED NAILING SCHEDULE "TABLE 1" OF "THE MANUAL OF HOUSE FRAMING" BY NFPA UNLESS NOTED OTHERWISE.

ALL FRAMING SHALL BE ERECTED TRUE LEVEL AND/OR PLUMB. MEMBERS SHALL BE SECURELY NAILED OR BOLTED IN PLACE AS DETAILED AT THE PROPER LOCATIONS OR SPACINGS INDICATED. ALL FRAMING MEMBERS SHALL BE OF FULL LENGTH WITHOUT PIECES ADDED OR SPICED. FURRING, BLOCKING, NAILERS, ETC. SHALL BE SECURELY ANCHORED IN PLACE.

ALL WOOD TO BE NEW, (EXISTING SALVAGED JOIST MAY BE USED TO FILL IN FLOOR AREAS), THOROUGHLY SEASONED, SAWN SQUARE AND TO BE FREE FROM LARGE LOOSE OR UNSOUND KNOTS, SHAKES, OR OTHER DAMAGING IMPERFECTIONS. ALL LUMBER AND PLYWOOD TO BE IDENTIFIED BY GRADE STAMP, AND BE STORED SEPARATELY, CONFORM TO THE LATEST GRADING RULES OF WESTERN WOOD PRODUCTS ASSN., SOUTHERN PINE INSPECTION BUREAU, AMERICAN PLYWOOD ASSOCIATION, OR OTHER UNDER WHOSE RULES THE LUMBER IS PRODUCED. LABOR, MATERIAL, AND EQUIPMENT TO PERFORM ALL CARPENTRY WORK SHOWN, BLOCKING, NAILERS, CODE REQUIREMENT MEMBERS, NECESSARY ANCHORS, CLIPS, METAL STRAPS, AND RAILING TO BE PROVIDED.

ROUGH HARDWARE TO BE FURNISHED AND INSTALLED AS NECESSARY, NAILS, SCREWS, BOLTS, STRAPS, ANCHORS, HANGERS, ANGLES, DOWELS, INCLUDING BLOCKING, CLIPS, HEADERS, CLEATS, AND OTHER EQUIVALENT WORK TO BE OF QUALITY, SIZE, WEIGHT, AND NUMBER REQUIRED BY APPLICABLE FRAMING STANDARDS.

LABOR, MATERIAL, AND EQUIPMENT TO PERFORM ALL CARPENTRY WORK SHOWN, BLOCKING, NAILERS, CODE REQUIREMENT MEMBERS, NECESSARY ANCHORS, CLIPS, METAL STRAPS, AND RAILING TO BE PROVIDED, ROUGH CARPENTRY INCLUDING BLOCKING, CLIPS, HEADERS, CLEATS, AND OTHER EQUIVALENT WORK.

COMPLY WITH THE RECOMMENDATIONS AND PRACTICES OF THE AITC, NFPA AND TIP FOR THE INSTALLATION OF ALL WOOD FRAMING.

ALL WOOD IN CONTACT WITH MASONRY OR CONCRETE SHALL BE TREATED.

PROVIDE ONE TRIMMER AND END SUPPORTS AS SPECIFIED ON HEADER SCHEDULE AT THE END OF ALL HEADERS. PROVIDE FILL PLATES AS NEEDED UNLESS NOTED OTHERWISE. IN EXTERIOR WALLS, PROVIDE ONE FULL HEIGHT STUD TRIMMER FOR EACH 3'-0" OF WIDTH AT EACH END, SUFFICIENTLY ANCHOR ALL BEAMS AT EACH BEARING END.

LVL ON PLAN INDICATES THE LOCATION OF PRE MANUFACTURED LAMINATED VENEER LUMBER BEAM AS MANUFACTURED BY BOISE ENGINEERED WOOD PRODUCTS" OR AN APPROVED EQUIVALENT. BEAM SHALL HAVE THE FOLLOWING ALLOWABLE STRESS VALUES:
E= 1,900,000 PSI
G= 118,750 PSI
Fb= 2,600 PSI
Fv= 150 PSI (PERPENDICULAR)
F= 2,510 PSI (PARALLEL)
Fv= 285 PSI

WHERE (2) OR MORE UNITS OF STANDARD LUMBER ARE TO BE USED AS A HEADER, EACH PLY SHALL BE NAILED TOGETHER WITH (2) ROWS OF 16d NAILS AT 12" O.C.

PROVIDE JOIST HANGERS FOR ALL BEAMS AND JOISTS WHICH FRAME INTO THE SIDE OF GIRDERS. HANGERS SHALL HAVE A MINIMUM VERTICAL SHEAR CAPACITY OF V (LB.) = 100 x SPAN (FT.) / 2

ALL WOOD PROVIDED SHALL BE SEASONED WITH A MAXIMUM MOISTURE CONTENT OF 19% AT THE TIME OF DRESSING.

FINISH CARPENTRY REQUIREMENTS OF "ARCHITECTURAL WOODWORK QUALITY STANDARDS AND GUIDE SPECIFICATIONS", PUBLISHED 1973 BY THE ARCHITECTURAL WOOD JOINT WORK INSTITUTE (AWI), SHALL FORM A PART OF THESE SPECIFICATIONS EXCEPT AS OTHERWISE NOTED.

WOOD VENEER SOLID CORE DOORS, RED OAK, GRADE 1, QUARTER SLICED, BOOK MATCHED AND MATCHED FOR COLOR AND GRAIN VENEER AT JOINTS.

PARTICLE BOARD, DEPT. OF COMMERCE STANDARD CS236-6
SHELVING - EDGE Banded, 3/4" FINISHED PLYWOOD, OR SOLID SAWN.
WINDOW SILLS, AND APRONS TO BE SOLID SURFACE, STONE, OR WOOD.
COUNTERS PLASTIC LAMINATE COUNTER AND BACKSPLASH, AND FRONT RAIL.

VAPOR AND AIR RETARDER INTERIOR SURFACES OF EXTERIOR WALLS BENEATH GYP BOARD, 6 MIL POLYURETHANE. ALSO BENEATH FLOOR SLAB. OVERLAP 12" AT SEAMS.

INSULATION DENSE PACKED CELLULOSE OR CLOSED CELL SPRAYFOAM.

RIGID INSULATION, ASTM C-578-85, TYPE I EXPANDED POLYSTYRENE, 1-1/2 LB DENSITY.

PREFABRICATED WOOD TRUSSES

ALL WOOD TRUSSES SHALL BE DESIGNED FOR THE FOLLOWING LOADS:
TOP CHORD DEAD LOAD ----- 10 PSF + WEIGHT OF TRUSS
BOTTOM CHORD DEAD LOAD ----- 10 PSF + WEIGHT OF TRUSS
TOP CHORD LIVE LOAD ----- 27 PSF

THE EXTENT OF ROOF TRUSSES SHOWN ON THE PLANS IS FOR REFERENCE ONLY. THE FABRICATOR SHALL VERIFY ALL DIMENSIONS, TRUSS LAYOUT, CONFIGURATION, NUMBER OF EACH TYPE OF TRUSS REQUIRED, LOADING AND DETAILS.

WOOD TRUSSES SHALL BE DESIGNED, FABRICATED AND INSTALLED PER TRUSS PLATE INSTITUTE, INC. SPECIFICATIONS AND NFPA NATIONAL, INC. SPECIFICATIONS AND NFPA NATIONAL DESIGN SPECIFICATIONS FOR WOOD CONSTRUCTION.

ALL TRUSSES SHALL BE ANCHORED TO SUPPORTS AS INDICATED AND IF NOT INDICATED, PER MANUFACTURER'S RECOMMENDATIONS.

DEFLECTION OF TRUSSES SHALL BE LIMITED TO MAXIMUM LIVE LOAD DEFLECTION OF SPAN/360.

SUBMITTALS:

A. SHOP DRAWINGS SHOWING SIZES, DESIGN VALUES, MATERIALS, AND DIMENSIONAL RELATIONSHIPS OF COMPONENTS AS WELL AS BEARING AND ANCHORAGE DETAILS.

B. TO EXTENT ENGINEERING DESIGN CONSIDERATIONS ARE FABRICATOR'S RESPONSIBILITY, SUBMIT DESIGN ANALYSIS AND TEST REPORTS INDICATING TRUSS PERFORMANCE CHARACTERISTICS. COMPLY WITH REQUIREMENTS.

C. CALCULATIONS AND SUBMITTALS OF REQUIRED CONNECTORS TO CONNECT TRUSSES TO GIRDER TRUSSES.

D. PROVIDE SHOP DRAWINGS WHICH HAVE BEEN SIGNED AND STAMPED BY AN ENGINEER LICENSED TO PRACTICE IN THE STATE OF MICHIGAN.

DESIGN AND SPECIFICATION OF TEMPORARY AND PERMANENT WOOD TRUSS BRACING BY TRUSS MANUFACTURER AND SHOWN ON SHOP DRAWINGS. TRUSS INSTALLER SHALL PROVIDE AND INSTALL BRACING PER SHOP DRAWINGS.

FLASHING AND SHEET METAL

FABRICATE AND INSTALL IN ACCORD WITH SMACNA CRITERIA AND THE ARCHITECTURAL SHEET METAL MANUAL.

VENT STACKS, NEOPRENE OR HOODED TYPES.

FLASHING - MINIMUM .018" EXPOSED, .018" CONCEALED, BAKED ENAMEL FINISHED ALUMINUM OR 26 GA. SHEET METAL. PERMANENT FINISH. USE FOR FASCIAS, AND USE PERFORATED SYSTEMS FOR SOFFITS. ALL VERTICAL JOINTS, SEAMED AND LAPPED. SEAL JOINTS WITH CLEAR SILICONE. COLOR SELECTED BY OWNER.

JOINT SEALERS INTERIOR CAULKING - CLASS A SEALANT/FLEXIBLE WATER BASE, NON-BLEEDING, OR ASTM C-920 & C-929, TYPE 25, NON LATEX.

COMPLETELY SEAL CONSTRUCTION TO MOISTURE AND OUTSIDE AIR.

EXTERIOR - ONE OR TWO COMPONENT POLYURETHANE OR POLYSULFIDE, NON SAG, FEDERAL SPECIFICATION TTS 0027ZE, CLASS A, ASTM C320-86. AS NECESSARY, FILL JOINTS WITH EXPANDED POLYURETHANE ROPE.

BATHROOMS, CAULK, SILICONE, GE OR DOW. FFTT-S-1543A. COLOR AS SELECTED.

APPLICATION CAULK AROUND DOOR & WINDOW OPENINGS. AT FLASHING INTERSECTIONS INTO BELOW AND AROUND VENT OPENINGS. CAULKING NOT ALLOWED WHEN THE TEMPERATURE IS BELOW 40°F. PROVIDE CAULK AT ALL DISSIMILAR MATERIALS.

FIRE RATED CAULKING AS MANUFACTURED BY USG, 3M, OR EQUIVALENT. CAULK AROUND ALL PIPE, WIRE, CABLE, DUCTS, ETC. PENETRATING FIRE RATED WALLS.

PIPE AND CONDUIT FIRE WALL PENETRATIONS AS PER U.L. WL 1087, CABLE FIRE WALL PENETRATIONS AS PER U.L. WL 3034, DUCT WORK FIRE WALL PENETRATIONS AS PER U.L. WL 7001.

DOORS AND WINDOWS

STEEL DOOR FRAMES ALL FRAMES HOLLOW METAL, 18 GA. MINIMUM METAL THICKNESS, 16 GA. FOR LABELED DOORS. BONDERIZE, FACTORY PRIME, REINFORCE FOR HARDWARE AND KNOCKOUT. SUPPLY WITH VINYL SILENCERS AND ADJUSTABLE LOCK STRIKE. UTILIZE 16 GA. FLOOR CLIPS AND JAMB ANCHORS. ALL WORK IN ACCORD WITH STEEL DOOR INSTITUTES, SPEC. SD4010. INTEGRAL WEATHERSTRIP EXTERIOR FRAMES.

HOLLOW METAL DOORS 18 GA. SKINS, EXTERIOR R-7 MINIMUM INSULATION, WEATHER STRIP, HEAD AND SILL RAIN CAPS EXTERIOR DOORS. SPEC. SD4100. AIR LEAKAGE NOT TO EXCEED 0.37 CFM/LIN. FT. @ 25 MPH. ASTM E-283.

ALUMINUM DOORS AND FRAMES PROVIDE ANODIZED ALUMINUM DOORS AND FRAMES, 3" X 7" NARROW STYLE, EXTRA DUTY, 6063-T5 ALLOY, 0.125" THICK, REINFORCED FOR HARDWARE. PROVIDE COMPLETE WITH HARDWARE/PANIC DEVICES, 4" BUTT HINGES, 1-1/2" PR., LOCKSET.

PILE WEATHER STRIP, TOPRAIL 4-1/2", BOTTOM RAIL 6", 12" WIDE CENTER MUNTIN FOR PUSH-PULL. PANIC DEVICE EQUAL TO VON DUPRIN, HOLD OPEN ARMS, FLUSH HEAD AND FOOT BOLTS, INACTIVE LEAF. LOCK CYLINDER BY FINISH HARDWARE.

FRAMES, WINDOWS, ALUM. 4-1/2" X 1-3/4", ANODIZED, TO RECEIVE 7/8" THERMOPANE. SASH TO MEET ZONE I AIR LEAKAGE REQUIREMENTS, ASTM E-203.

GARAGE DOOR - SECTIONAL, OVERHEAD DOOR MODEL 591 .015" GAL RIBBED STEEL PANEL R-14.86 POLYURETHANE CORE AND STEEL CHANNEL TRACK.

ROLLING - OVERHEAD DOOR MODEL 610 22 GA. GAL STEEL SLAT F-265 FLAT PROFILE, 24 GA GAL STEEL HOOD AND STEEL CHANNEL TRACK.

WOOD DOORS NWMA I.S. 1-80, 1/8" VENEER, SOLID STAVES. CLASSROOM RATED 20 MIN, MECHANICAL RM 45 MIN, FURNISH GLASS PANELS WHERE SHOWN.

USE LEVER HANDLES THROUGHOUT 2-3/4" BACKSET. EXTERIOR 2-3/8" INTERIOR. SUBMASTER KEY AND MASTER KEY.

WOOD VENEER SOLID CORE DOORS, RED OAK, GRADE I, QUARTER SLICED, BOOK MATCHED AND MATCHED FOR COLOR AND GRAIN VENEER AT JOINTS.

FINISH HARDWARE

FINISHES ALL HARDWARE TO BE SATIN CHROME #26 OR USS #60, WITH LEVER HANDLES OR PULLS. VERIFY FINISH WITH OWNER. KNURL HANDLES AT HAZARDOUS AREAS, JANITORS, STORAGE AREAS, STAIR ENTRANCES.

HINGES ALL HINGES 4-1/2" MINIMUM. **EXTERIOR DOORS** FIVE KNUCKLE, NRP, BALL BEARING, EQUAL TO STANLEY 179-181 TYPE. **INTERIOR DOORS** THREE KNUCKLE, FLUSH TIP STAINLESS STEEL PINS, NRP, NON-BALL, ANTI-FRICTION BEARING SURFACE, NOT REQUIRING LUBRICATION OR MAINTENANCE. EQUAL TO STANLEY C81961 TYPE.

LOCKSETS HEAVY DUTY, COMMERCIAL, MEETING REQUIREMENTS OF ANSI A156.3, 1994, GRADE 1, FEDERAL SPEC. #6 AND 87, KEYED FOR FIVE OR SIX PIN TUMBLERS. DEADLOCKS, ANSI 156.5, GRADE 1, FEDERAL SPEC. 150.

EXIT DEVICES TOUCH BAR TYPE EQUAL TO VONDUPRIN SERIES 99, AS REQUIRED ON EXIT DOORS. COMPLETE WITH DOGGING KEYS OR PRO 993 EXIT DEVICE.

CLOSERS CERTIFIED UNDER ANSI 156.4, PT-1 PERFORMANCE LEVEL, BHMA STANDARD 301 CONCEALED MOUNT, ADAPTER PLATES AS NECESSARY, INTERIOR AND EXTERIOR DOORS, EQUAL TO 4110-4130, LCN. TO EQUAL FROM FULL OPEN TO 3" FROM LATCH IN 3 SECONDS.

PUSH PULLS EQUAL TO BROOKLINE, STYLE SOC PULLS, 3-1/2" X 14" PUSH PLATES, BEVELED EDGES, 16 GA. DOOR KICK PLATES, 10" HIGH X WIDTH LESS THAN 2".

KICK PLATES 2'-8" X 10" STAINLESS STEEL BOTH SIDES OF DOOR.

AUTOMATIC DOOR OPENER LCN 4610 SERIES ELECTRONICALLY POWERED CLOSURE WITH JAMB MOUNTED ACTUATORS, PUSH BUTTON OR CYPHER LOCK ACTUATOR.

CYPHER LOCK SCHLAGE "PRO SERIES" CARD/PUSH BUTTON ACCESS CONTROL SYSTEM.

ELECTRONIC STRIKE VON DUPRIN SERIES 6000.

EXTERIOR DOORS, EXCEPT ALUMINUM DOORS, OVER HEAD, GJ80M, SURFACE APPLIED. INTERIOR DOORS, FLOOR TYPE DOMED, GJFB13 (NO THRESHOLD), GJFB14 WITH THRESHOLD.

ALL METAL EXTERIOR DOORS TO BE FITTED WITH LATCH-GUARD STEEL PLATE.

EXTERIOR DOORS, EXCEPT ALUMINUM DOORS, PROVIDE COMPLETE WEATHER STIPPING, JAMBS AND HEADS, STANLEY 5700 EXCEPT WHEN INTEGRALLY PART OF DOOR FRAME, ADJUSTABLE ASTRAGLS, STANLEY 5620 FOR PASS DOORS, THERMAL BARRIER THRESHOLD 1/2" THICK, WITH BOTTOM DOOR SEALS, SWEEP TYPE.

EXTERIOR DOORS WITH NO CANOPY PROTECTION.

SCOPE

- ## GENERAL

- DEMOLITION

- SUBSTITUTES

- ## IDENTIFICATIONS

- ## INSULATION

- ## ESCUTCHEONS

- ### BARRIER FREE REQUIREMENT

- ## SOIL WASTE AND VENT PIPING

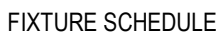
- ## WATER PIPING

- ## NATURAL GAS PIPING

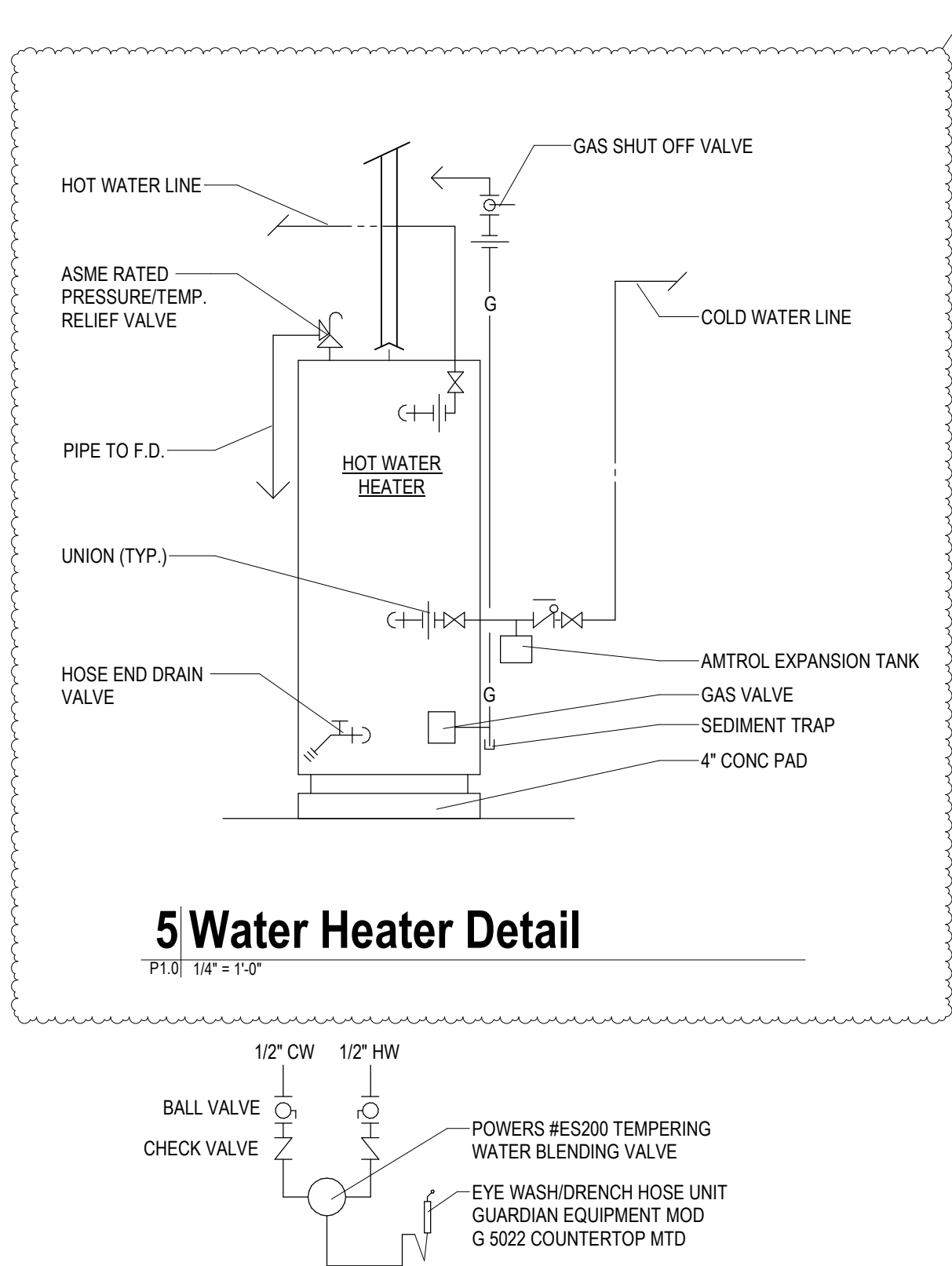
- FIRESTOP

- ## FLUSHING AND DISINFECTING POTABLE WATER SYSTEMS

- ## TESTING



-
- GAS LOADS**
- | | | |
|----------|-----|------------|
| FURNACE | F-1 | 120 MBTU |
| | F-2 | 120 MBTU |
| | F-3 | 120 MBTU |
| | F-4 | 120 MBTU |
| W HEATER | | 76 MBTU |
| TOTAL | | 556000 BTU |
- Machine Shop** [111]
- Womens** [106]
- Toilet** [107]
- EBC**
- Pass** [104]
- Mens** [105]
- Maker Space** [108]
- Office** [109]
- Vestibule** [101]
- Arena** [102]
- CU-4**
- EYEWASH STATION**
- 2 P1.0**
- GAS AND CONDENSATE PIPING TO F-4 SUR MTD ATTACHED TO WALL ABOVE DUCTWORK**

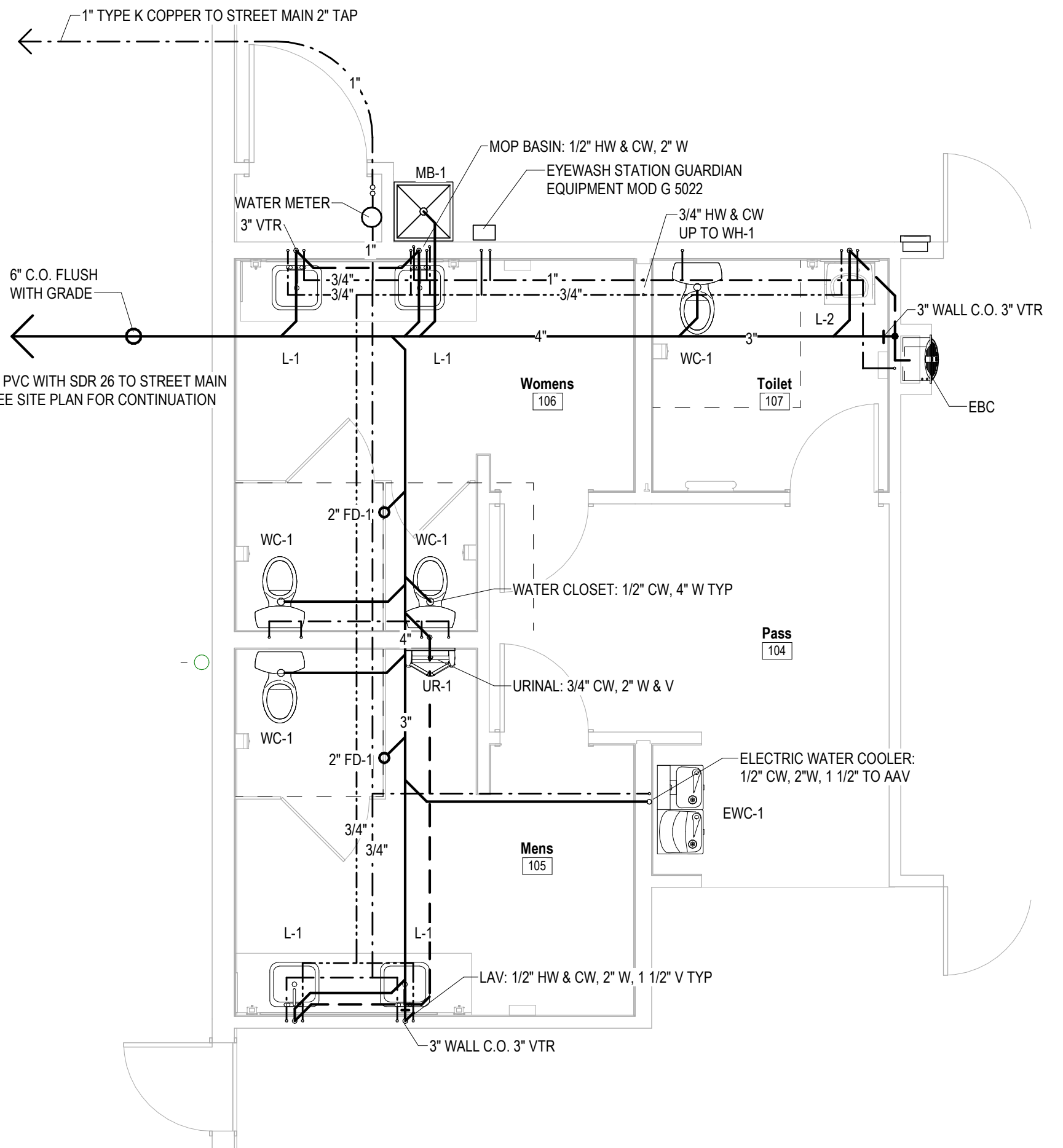


6 Eyewash Detail

P1.0	$1/2'' = 1'-0''$
------	------------------

3| Plumbing Plan Second Floor

P1.0 | $1/4'' = 1'-0''$



2 Large Scale Plumbing Plan

P1.0	$1/4'' = 1'-0''$
------	------------------

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ARCHITECT



REVISIONS

9.11.26	Pre-Bid RFI
Date	Description

9.11.26	Pre-Bid RFI
Date	Description

Project
ESSEXVILLE-HAMPTON PUBLIC
305 Pine Street, Essexville, MI 48732N

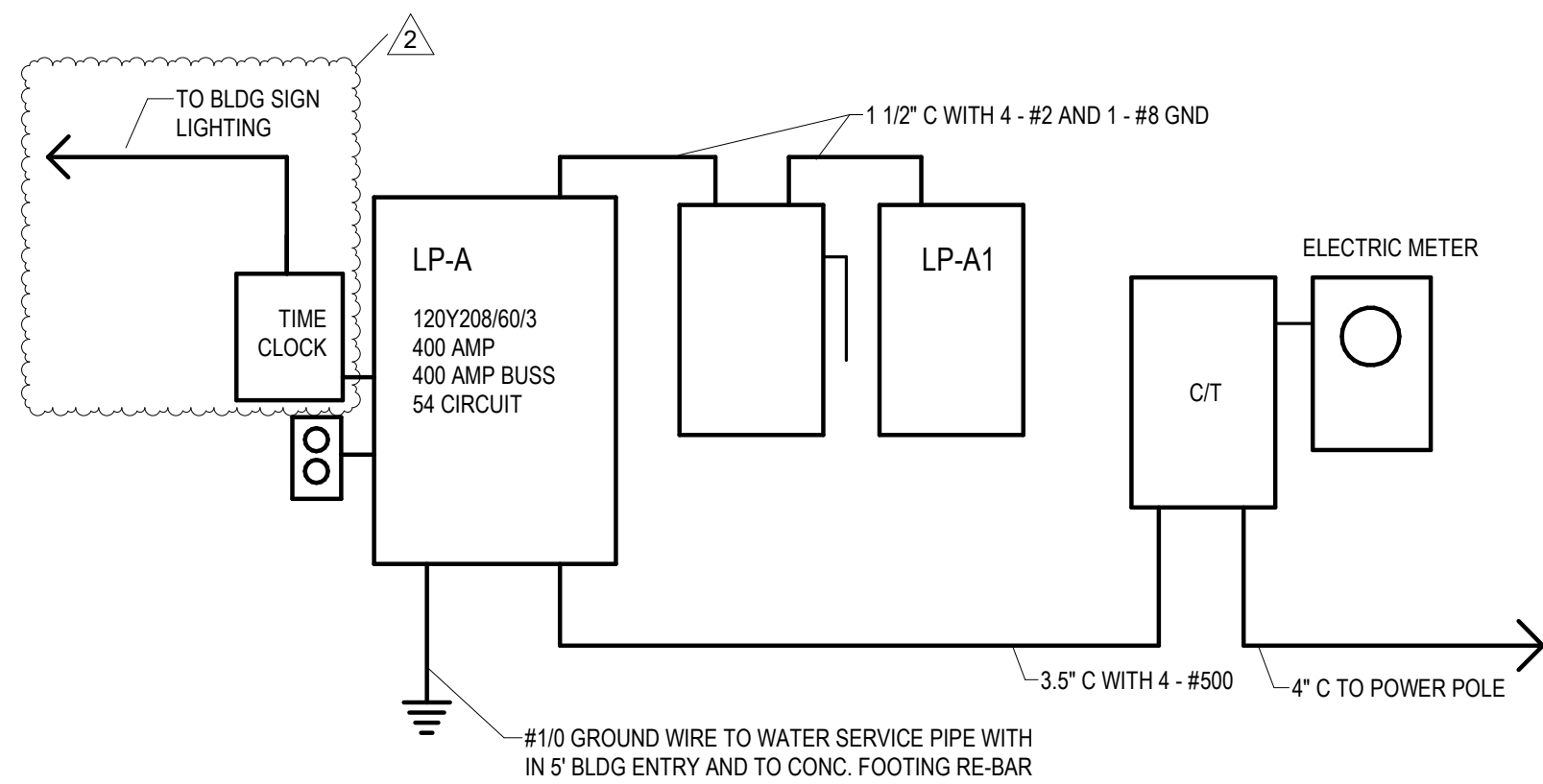
AND DESIGN

Drawing Plumbing Plan

PROJECT NUMBER 25-028
DATE JULY 20, 2026

DATE **JULY 29, 2020**
SCALE **As indicated**
SHEET NUMBER

P1.0



5 Electric Riser Diagram

DEMAND LOAD:			
LIGHTING	4.20 KVA	AT 125%	= 5750 VA
RECEPTACLE	10.00 KVA	AT 100%	= 10000 VA
	6.14 KVA	AT 50%	= 3070 VA
	33.32 KVA	AT 100%	= 33320 VA
HVAC	35.09 KVA	AT 80%	= 28072 VA
MISC			
MISC MOTOR	6.8 KW X .25%		= 1700 VA
TOTAL:	88.75 KVA	DEMAND	= 81912 VA

227.53 AMPS

LP-A									
120/208V 60 HZ 3 PHASE 4 WIRE			400 AMP M.B. 400 AMP BUSS			10K A.I.C.			
NO	BKR	DESCRIPTION	LOAD	PHASE	LOAD	DESCRIPTION	BKR	NO	
1	20A	RECEPTACLE	1.08	A	1.08	RECEPTACLE	20A	2	
3	20A	RECEPTACLE	1.08	B	0.90	RECEPTACLE	20A	4	
5	20A	RECEPTACLE	1.08	C	0.90	RECEPTACLE	20A	6	
7	20A	RECEPTACLE	0.90	A	0.72	RECEPTACLE	20A	8	
9	20A	RECEPTACLE	0.72	B	0.84	RECEPTACLE	20A	10	
11	20A	RECEPTACLE	1.08	C	0.72	DOOR HARDWARE	20A	12	
13	20A	RECEPTACLE	0.72	A	0.90	RECEPTACLE	20A	14	
15	20A	RECEPTACLE	0.72	B	0.90	RECEPTACLE SCOREBOARD	20A	16	
17	20A	RECEPTACLE 3/4 HP	1.60	C	1.60	RECEPTACLE 3/4 HP	20A	18	
19	20A	RECEPTACLE	0.90	A	0.90	RECEPTACLE	20A	20	
21	20A	LIGHTING	1.18	B	0.40	TIME CLOCK - SITE LIGHTING	20A	22	
23	20A	LIGHTING	1.16	C	1.46	LIGHTING	20A	24	
25	50A	CU-1 5 TON	3.40	A	3.40	CU-2 5 TON	50A	26	
27	2P		3.40	B	3.40		2P	28	
29	20A	FURNACE -1 1 HP	1.53	C	1.53	FURNACE -2 1 HP	20A	30	
31	20A	FURNACE -3 1 HP	1.53	A	1.53	FURNACE -4 1 HP	20A	32	
33	50A	CU-3 5 TON	3.40	B	3.40	CU-4 5 TON	50A	34	
35	2P		3.40	C	3.40		2P	36	
37	20A	CEILING FANS	0.75	A	0.75	CEILING FANS	20A	38	
39	2P		0.75	B	0.75		2P	40	
41	20A	SPARE		C		SPARE	20A	42	
43		BLANK		A		BLANK		44	
45		BLANK		B		BLANK		46	
47		BLANK		C		BLANK		48	
49	20A	FIRE ALARM	0.50	A	10.14	LP A1	100A	50	
51	20A	SECURITY SYSTEM	0.50	B	7.86		3P	52	
53	20A	TELEPHONE SYSTEM	0.50	C	9.39			54	

A = 29.20 KVA
B = 30.20 KVA
C = 29.35 KVA

TOTAL 88.75 KVA = 246.52 AMPS

LP-A1									
120/208V 60 HZ 3 PHASE 4 WIRE			100 AMP M.B. 125 AMP BUSS			10K A.I.C.			
NO	BKR	DESCRIPTION	LOAD	PHASE	LOAD	DESCRIPTION	BKR	NO	
1	20A	CNC MACHINE	0.96	A	0.88	TABLE SAW	20A	2	
3	20A	CNC MACHINE	0.96	B	0.88		2P	4	
5	20A	LASER	0.50	C	0.77	BAND SAW	20A	6	
7	20A	PNEUMATIC PRESS	0.50	A	0.77		2P	8	
9	20A	BENCH LATHE	1.44	B	1.05	BAND SAW	20A	10	
11	20A	BENCH MILL	1.20	C	1.05		2P	12	
13	20A	DUST COLLECTOR	1.65	A	1.80	12" SURFACE PLANER	20A	14	
15	20A	B.T. GRINDER	0.43	B	0.72	6" JOINER	20A	16	
17	20A	B.T. BELT SANDER	0.52	C	1.15	COLD SAW	20A	18	
19	20A	B.T. DISC SANDER	0.52	A	0.96	B.T. CNC MINI MILL	20A	20	
21	20A	B.T. MITER SAW	1.80	B		SPARE	20A	22	
23	20A	B.T. LATHE	0.96	C	1.44	COMPRESSOR	20A	24	
25	20A	B.T. BAND SAW	0.30	A	1.80	DRILL PRESS	20A	26	
27	20A	B.T. POLISHER	0.58	B	1.05	BRIDGEPORT MILL	20A	28	
29	20A	COMPRESSOR	1.80	C	1.05		2P	30	

A = 10.14 KVA
B = 7.86 KVA
C = 9.39 KVA

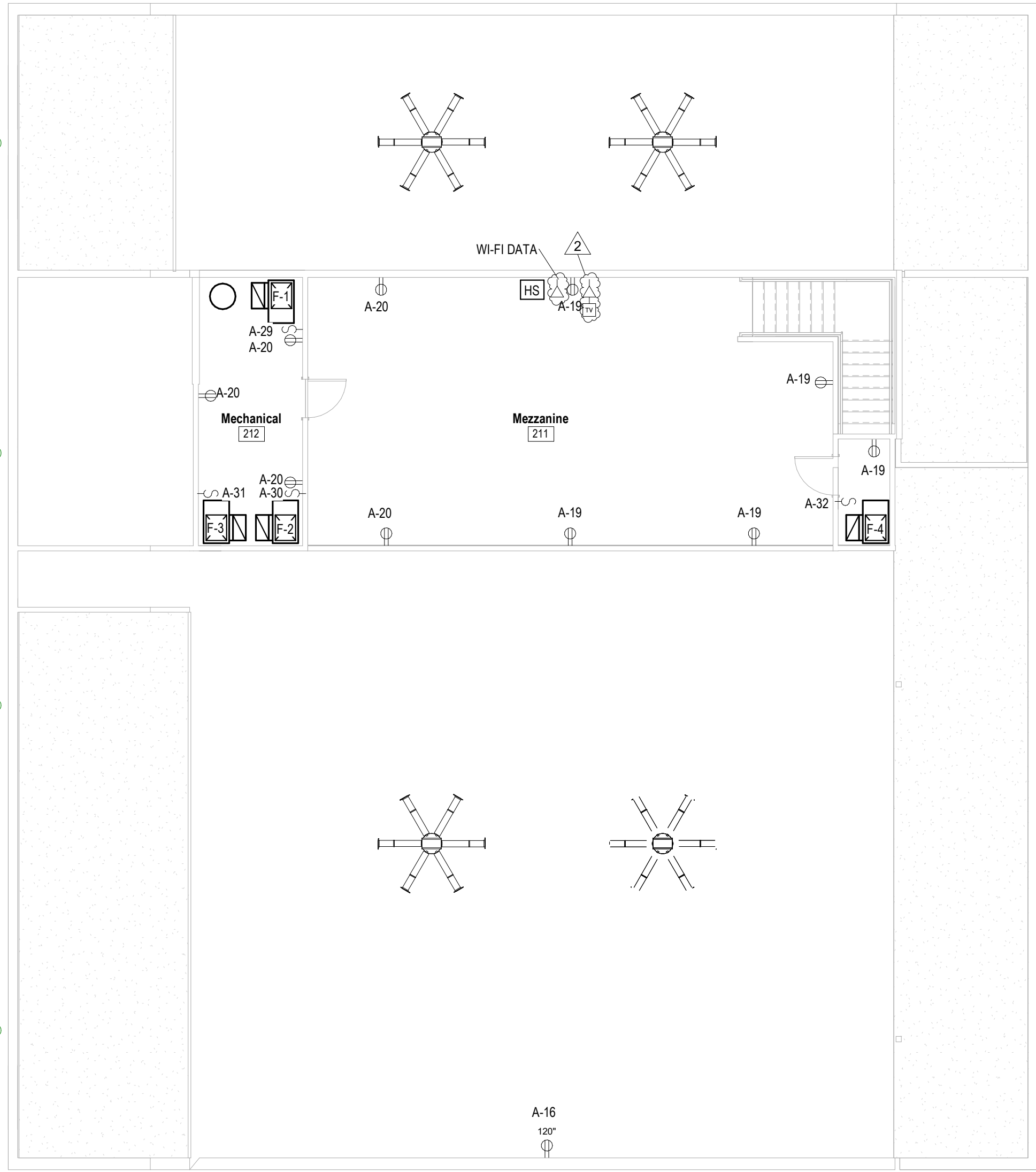
TOTAL 27.39 KVA = 76.08 AMPS

B.T. BENCH TOP

Note-1
Split controlled receptacles shall be provided with the top receptacle controlled. An occupant sensor control that shall turn off receptacles within 20 minutes of all occupants leaving a space.

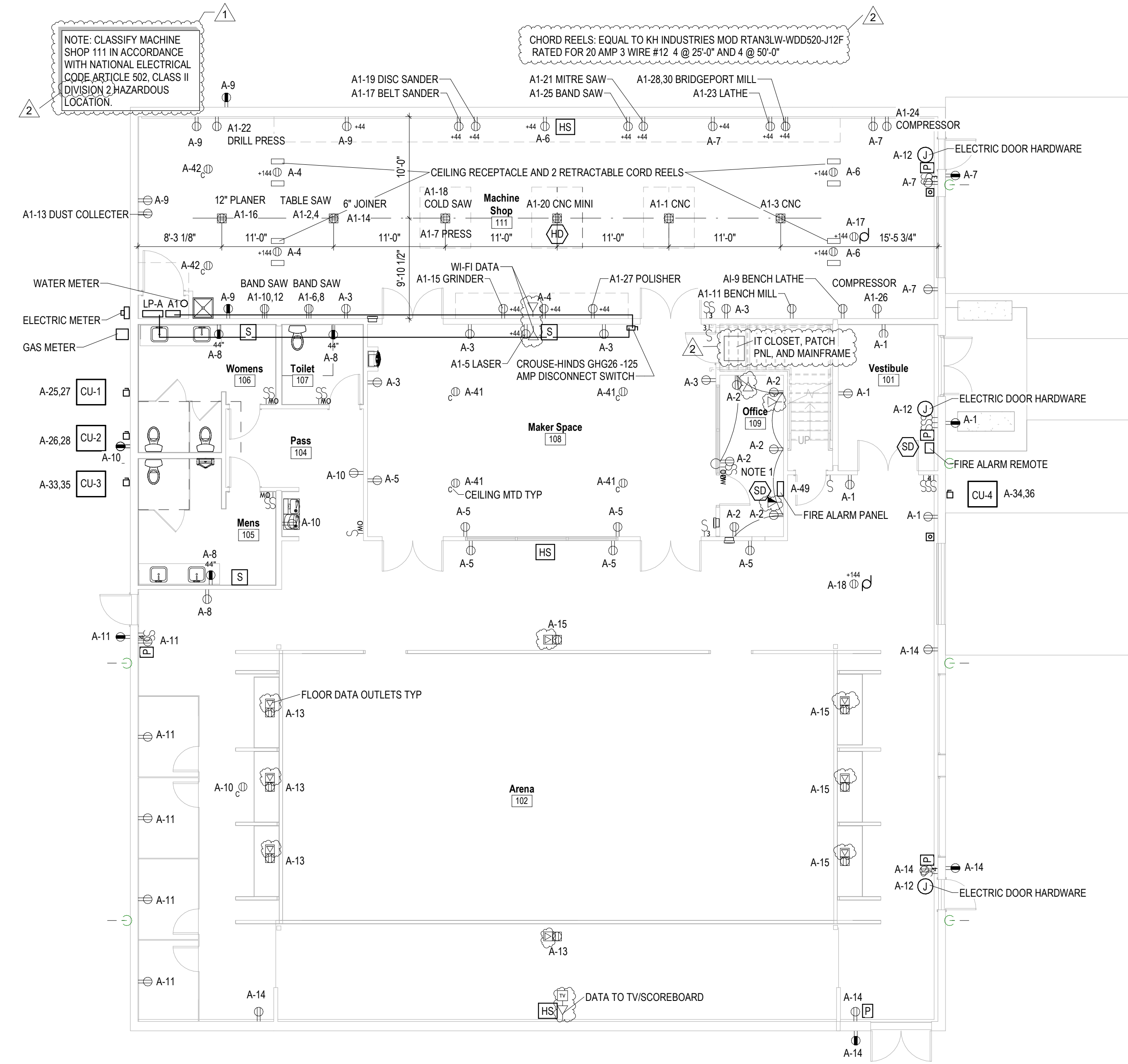
ELECTRICAL LEGEND

- TELEPHONE OUTLET
- TELEPHONE OUTLET & DATA
- DATA OUTLET
- JUNCTION BOX
- MOTOR SINGLE PHASE
- MOTOR THREE PHASE
- POWER ASSIST OPENER
- JUNCTION BOX (ELECTRIC DOOR STRIKE)
- DISCONNECT
- DISCONNECT NON-FUSED
- OCCUPANCY SENSOR WALL MOUNTED
- OCCUPANCY SENSOR CEILING MOUNTED
- EMERGENCY POWER TRANSFER SWITCH LVS MOD. EPC-A
- CARD READER
- STROBE
- HORN/STROBE
- PULL STATION
- DOOR HOLD OPEN MAGNET
- SMOKE DETECTOR
- DUPLEX RECEPTACLE
- QUADRAPLEX RECEPTACLE
- DUPLEX RECEPTACLE GROUND FAULT INTERRUPTER
- DUPLEX RECEPTACLE DEDICATED CIRCUIT
- DUPLEX FLOOR RECEPTACLE
- WEATHERPROOF
- SINGLE POLE SWITCH
- THREE WAY SWITCH
- DIMMER SWITCH
- MOTION SENSOR
- CAMERA OUTLET (EACH OUTLET TO BE HOME RUN TO TV CONTROL PANEL)
- PUSH BUTTON REMOTE DOOR CONTROLLER
- MASTER INTERCOM SYSTEM
- INTERCOM SUB-STATION WITH BUZZER
- RECESSED CLOCK
- SPEAKER
- VOLUME CONTROL
- MICROPHONE



2 Second Floor Electrical Plan

E.T. 01 1/8" = 1'-0"



1 First Floor Electrical Plan

E.T. 01 1/8" = 1'-0"

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REVISIONS

Date	Description
9.11.26	Pre-Bid RFI
8.6.26	Bid Set

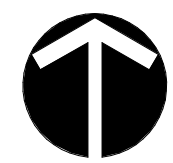
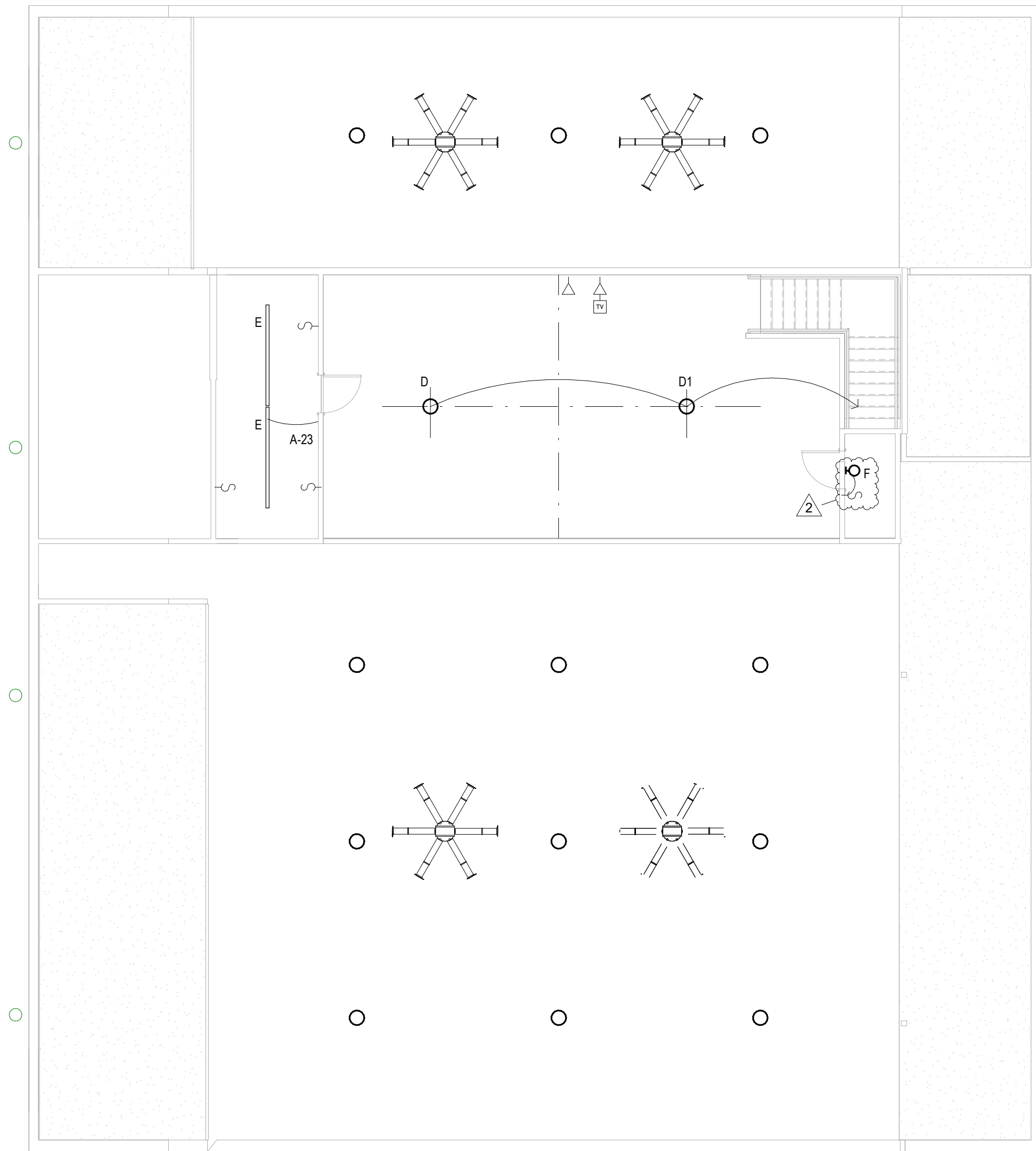
Project
ESSEXVILLE-HAMPTON PUBLIC
305 Pine Street, Essexville, MI 48732N
AND DESIGN

Drawing
Electrical Plan

DRAWN BY: SJS
CHECKED BY: JSF

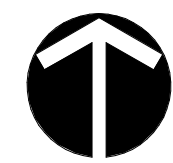
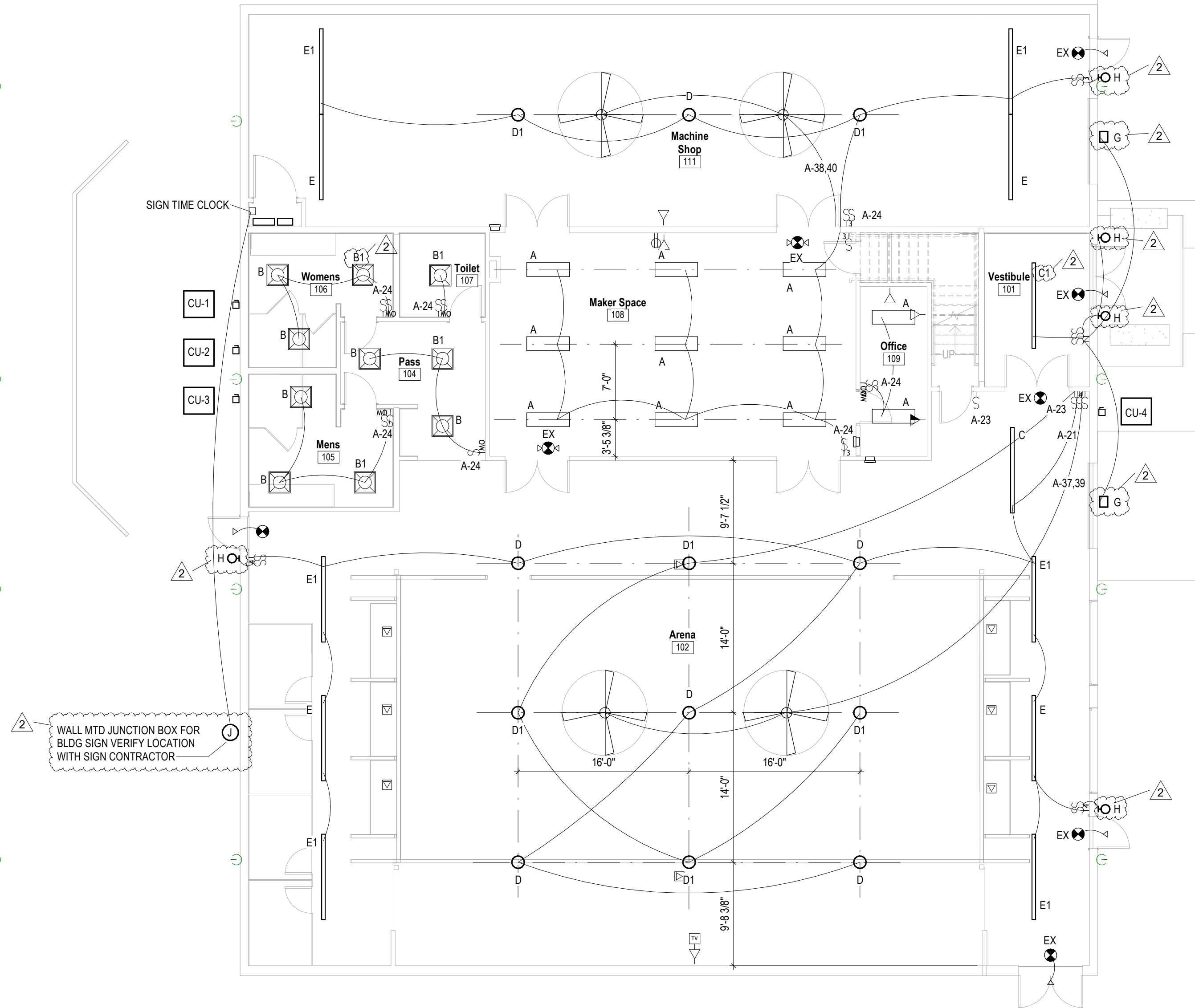
PROJECT NUMBER 25-028
DATE JULY 29, 2026
SCALE As indicated
SHEET NUMBER

E1.0



2 Second Floor Lighting Plan

1/8" = 1'-0"



1 First Floor Lighting Plan

1/8" = 1'-0"

LIGHT FIXTURES

A	'LITHONIA'	TRUM 48 AL06 CMP 8SWW2 ZT MVOLT	9"X48" LED SUR MTD. WITH ONE-PIECE COLD-ROLLED STEEL HOUSING WITH COATED POLYESTER PAINTED WHITE FINISH, #12 PATTERN ACRYLIC 0.125" WRAP AROUND LENS INVOLT UNIVERSAL ELECTRONIC DRIVER, 4000 TO 6000 ADJUSTABLE LUMENS, 3000K TO 5000K ADJUSTABLE COLOR TEMP AND DIMMING DRIVER 1 - 45 WATT LED LAMP
B	'LITHONIA'	2FSL2 33L EZ1	2X2 LED RECESSED TROFFER BASKET STYLE TROFFER, WITH ONE-PIECE COLD ROLLED STEEL HOUSING WITH COATED POLYESTER PAINTED WHITE FINISH, SATIN WHITE LENS, UNIVERSAL INVOLT ELECTRONIC DRIVER, 3300 LUMENS AND DIMMING DRIVER 1 - 34.5 WATT LED LAMP
B1	'LITHONIA'	2FSL2 33L EZ1 LP835 EL14L	SAME AS 2A ONLY WITH AN EMERGENCY BATTERY BACK UP PACK
C	'PEERLESS'	VMM9 HI 20/80 8FT R4 120 EZB 1SE SCT LP835 FU18 C041	1X8 LED SUSPENDED LINEAR FIXTURE WITH EXTRUDED ALUMINUM HOUSING HIGH REFLECTIVE WHITE POLYESTER PAINTED FINISH, SOFTSHINE LENS, 20% UP 80% DN LIGHT DISTRIBUTION, 0-10V CONTROL INPUT, 120V SINGLE CIRCUIT T-BAR MOUNTING BRACKETS AT 18", 80CRI COLOR RENDERING 3500K, ID1100LMF MAX. DEFLECTION 1/8"/10" 0" 1100 LUMENS/FT 9.5 WATTS/FT
C1	'PEERLESS'	E10W	SAME AS 3A ONLY WITH 10WATT EMERGENCY BATTERY PACK 900 LUMENS
D	'PETROLUX'	PXHW 84 LED LSP MVOLT 40K UNM 700MA 45C DGXD	36" ROUND HIGH BAY LED LIGHT FIXTURE SINGLE PIECE DIE CAST ALUMINUM HOUSING 2 WITH POLYCARBONATE LENS, ADJUSTABLE 24000/27000/30000 LUMENS, ADJUSTABLE COLOR TEMPERATURE 3500K/4000K/5000K. 170 WATT LED LAMP WITH REBLCPLR2 J10 POLYCARBONATE REFLECTOR
D1	'PETROLUX'	PXHW BLDE40WCP M4	SAME AS 3A ONLY WITH 40WATT 90 MIN EMERGENCY BATTERY PACK
E	'HOLOPHANE'	HEXS P2 MV 40K T6M FG UB1 GR	CABLE MTD LOW PROFILE 'Z' STRIP CHANNEL LED FIXTURE COLD ROLLED 3 STL HIGH GLOSS BAKED WHITE ENAMEL WITH 10 STRAIGHT BLADE LOUVER MULTI-VOLT INPUT 0-10V DIMMING DRIVER LAMP 80CRI AT 3500 K 5000 LUMENS 42 WATTS
E1	'HOLOPHANE'	E10W	SAME AS E ONLY WITH 10WATT EMERGENCY BATTERY PACK 900 LUMENS

F	'JUNO'	WF6 SSW5 90CRI MW M6	6" SWITCHABLE WHITE DOWNLIGHT LED ULTRA-THIN WAFER SIDEWALL MTD
G	'LITHONIA'	WDGE3 LED P3 40K 80CRI R3 MVOLT SRM NLTAIR2 PRI	9X18 ARCHITECTURAL WALL SCONCE DK BRONZE WALL MTD CENTER ON OVHD DOOR DDBXD
H	'LITHONIA'	OLLWU LED P1 40K MVOLT DDB	LED WALL CYLINDER UP AND DOWN LIGHT, CAST ALUMINUM HOUSING POLYCARBONATE LENS, 947 LUMENS, 4000K, 14 WATT
EX	'LITHONIA'	LHQM S W 3 R HO R	EXIT LIGHT WALL/CEILING MOUNTED WHITE THERMOPLASTIC HOUSING RED LETTER, DIRECTIONAL ARROW KNOCK OUTS SINGLE FACED 120V WITH 90 MIN NI CAD EMERGENCY BATTERY PACK REMOTE HEAD ELA QWP L0305 1.5W/9.5V LED LAMP
EM	'LITHONIA'	ELM6L UVOLT LTP	EMERGENCY LIGHT WALL MOUNTED WHITE THERMOPLASTIC HOUSING WITH 90 MIN LITHIUM IRON PHOSPHATE EMERGENCY BATTERY PACK LED LAMP 1100 LUMENS

NOTE: PROVIDE NICKEL-CADMIUM BATTERY PACKS FOR LED LIGHT FIXTURES NOTED TO BE EMERGENCY LIGHT FIXTURES CAPABLE OF 1 1/2 HR MIN LIGHT OPERATION AND WITH FIXTURE MTD TEST SWITCH. WIRE ALL NIGHT LIGHTS, EXIT AND EMERGENCY LIGHTS TO THE NEAREST LIGHT CIRCUIT AHEAD OF ANY SWITCHES.

ARCHITECT
SEDGEWICK + FERWEDA ARCHITECTS

410 East Court Street Flint, MI 48503
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REVISIONS

Date	Description
9.11.26	Pre-Bid RFI

Project
ESSEXVILLE-HAMPTON PUBLIC
305 Pine Street, Essexville, MI 48732
AND DESIGN

Drawing
Lighting Plan

DRAWN BY: SJS
CHECKED BY: JSF

PROJECT NUMBER **25-028**
DATE **JULY 29, 2026**
SCALE **1/8" = 1'-0"**
SHEET NUMBER

E1.1

ELECTRICAL SPECIFICATIONS

GENERAL
ALL ELECTRICAL WORK SHALL COMPLY WITH THE LATEST EDITION OF N.E.C., LOCAL AND STATE CODES, ORDINANCES AND REGULATIONS, INCLUDING THE OCCUPATIONAL SAFETY AND HEALTH ACT (OSHA).

WORK INCLUDED
THE CONTRACTOR SHALL PROVIDE ALL ITEMS, ARTICLES, MATERIALS, OPERATIONS, OR METHODS MENTIONED, LISTED OR SCHEDULED ON THE DRAWINGS AND IN THESE SPECIFICATIONS, INCLUDING ALL LABOR, MATERIALS, EQUIPMENT, AND ALL INCIDENTALS NECESSARY REQUIRED FOR THE COMPLETION AND OPERATION OF ALL SYSTEMS.

THE INSTALLATION SHALL BE MADE SO THAT ALL COMPONENT PARTS FUNCTION TOGETHER AS A WORKABLE SYSTEM; IT SHALL BE COMPLETE WITH ALL ACCESSORIES NECESSARY FOR PROPER OPERATION. WHEN THE INSTALLATION IS COMPLETE, ALL EQUIPMENT SHALL BE OPERATIVE AND IN PROPER ADJUSTMENT. ALL WORK SHALL BE EXECUTED IN CONFORMITY WITH THE BEST PRACTICE SO AS TO CONTRIBUTE TO EFFICIENCY OF OPERATION, MINIMUM MAINTENANCE, ACCESSIBILITY AND SIGHTLINESS.

TO ACCOMPLISH THESE RESULTS, THE CONTRACTOR SHALL CONSULT THE ARCHITECTS AND ENGINEER'S PLANS COVERING THE VARIOUS OTHER TRADES, THE FIELD LAYOUTS OF THE CONTRACTORS FOR THESE TRADES AND THEIR SHOP DRAWINGS. HE SHALL COORDINATE HIS WORK ACCORDINGLY.

LOCAL CONDITIONS
THE CONTRACTOR SHALL VISIT THE SITE AND SHALL FAMILIARIZE HIMSELF WITH CONDITIONS WHICH WILL AFFECT THE WORK HE IS TO PERFORM. THE SUBMISSION OF A PROPOSAL BY THIS CONTRACTOR SHALL BE CONCLUSIVE EVIDENCE THAT THIS CONTRACTOR HAS VISITED THE SITE AND HAS GIVEN PROPER CONSIDERATION AND EVALUATION OF THESE CONDITIONS IN THE PREPARATION OF HIS PROPOSAL. NO ALLOWANCE SHALL SUBSEQUENTLY BE MADE ON HIS BEHALF FOR EXTRA EXPENSE INCURRED DUE TO FAILURE OR NEGLECT ON HIS PART TO MAKE THIS VISIT AND EXAMINATION.

PERMITS & INSPECTIONS
THE CONTRACTOR SHALL TAKE OUT ALL PERMITS AND ARRANGE FOR ALL NECESSARY INSPECTIONS AND SHALL PAY ALL FEES AND EXPENSES IN CONNECTION THEREWITH AS A PART OF HIS WORK UNDER THEIR CONTRACT.

DEMOLITION
DISCONNECT, REMOVE, OR RELOCATE PRESENT EQUIPMENT, OUTLETS, FIXTURES, DEVICES, ETC., AS INDICATED ON PLAN, HEREIN SPECIFIED, OR AS OTHERWISE REQUIRED TO CONFORM TO THE ELECTRICAL, MECHANICAL OR ARCHITECTURAL REVISIONS.

REMOVED MATERIALS, EXCEPT AS OTHERWISE INDICATED, SHALL NOT BE REUSED. THIS CONTRACTOR SHALL REMOVE SAME FROM THE PREMISES EXCEPT ITEMS AS MAY BE DESIGNATED AS SALVAGEABLE BY THE OWNERS REPRESENTATIVE AND THESE ITEMS SHALL BE DELIVERED TO THE OWNER FOR THEIR DISPOSITION. DELIVERY SHALL INCLUDE PLACING THE ITEMS AT ANY LOCATION WITHIN THE BUILDING AS SO DIRECTED BY THE OWNER.

SHOP DRAWINGS
COMPLETE SHOP DRAWINGS FOR ALL ELECTRICAL MANUFACTURED ITEMS SHALL BE SUBMITTED TO THE ARCHITECT AND ENGINEER FOR APPROVAL BEFORE FABRICATION OF THE ITEMS. DRAWINGS SHALL INDICATE NAME OF PROJECT AND NAME OF CONTRACTOR.

THE CONTRACTOR SHALL THOROUGHLY CHECK ALL SHOP DRAWINGS AS REGARDS TO MEASUREMENTS, SIZES OF EQUIPMENT, MATERIALS AND DETAILS TO SATISFY HIMSELF THAT THEY CONFORM TO THE INTENT OF ENGINEER'S DRAWINGS AND SPECIFICATIONS. DRAWINGS FOUND TO BE INACCURATE OR OTHERWISE IN ERROR ARE TO BE RETURNED TO THE SUB- CONTRACTORS FOR CORRECTION BEFORE SUBMITTING SAME TO THE ENGINEER.

THE CHECKING AND APPROVING OF SHOP DRAWINGS BY THE ENGINEER SHALL BE CONSTRUED AS ASSISTING THE CONTRACTOR AND THE ENGINEER'S ACTION DOES NOT RELIEVE THE CONTRACTOR FROM THE RESPONSIBILITY FOR ERRORS OR OMISSIONS WHICH MAY EXIST THEREON. WHERE ERRORS OR OMISSIONS ARE DISCOVERED LATER, THEY MUST ACCORDINGLY BE MADE GOOD BY THE CONTRACTOR.

DRAWINGS NOT APPROVED MUST BE CORRECTED AND RETURNED FOR FINAL APPROVAL. NO SHOP DRAWINGS SHALL BE USED ON THE WORK UNLESS APPROVED BY THE ENGINEER. ELECTRONIC COPIES OF ALL DRAWINGS SUBMITTED MUST BE IN PDF FORMAT. THE CONTRACTOR SHALL FURNISH TO THE FIELD, PRINTS OF CHECKED AND APPROVED SHOP DRAWINGS AS REQUIRED BY THE CONSTRUCTION OPERATIONS. COST FOR DUPLICATION OF MARKED DRAWING SETS SHALL BE BORNE BY THE CONTRACTOR.

SUBMIT SHOP DRAWINGS FOR THE FOLLOWING:

A. LIGHTING FIXTURES
B. LIGHTING CONTROLS
C. DISTRIBUTION PANELBOARDS
D. DISCONNECT SWITCHES
E. FUSES
F. CIRCUIT BREAKERS

EXTRA WORK
FOR ANY EXTRA ELECTRICAL WORK WHICH MAY BE PROPOSED, THIS CONTRACTOR SHALL FURNISH TO THE ARCHITECT/OWNER AN ITEMIZED BREAKDOWN OF THE ESTIMATED COST OF THE MATERIALS AND LABOR REQUIRED TO COMPLETE THIS WORK. THE CONTRACTOR SHALL PROCEED ONLY AFTER RECEIVING A WRITTEN ORDER FROM THE ARCHITECT/OWNER ESTABLISHING THE AGREED PRICE AND DESCRIBING THE WORK TO BE DONE.

SCHEDULE OF WORK
COORDINATE ALL WORK WITH THAT OF OTHER TRADES. PERFORM WORK IN A PHASED MANNER AS REQUIRED TO ACCOMMODATE THE PROJECT CONSTRUCTION SCHEDULE. COORDINATE ALL WORK AND THE SEQUENCE OF INSTALLATION WITH THE GC/CONSTRUCTION MANAGER.

GUARANTEE & WARRANTY
CONTRACTOR SHALL GUARANTEE ALL WORK INSTALLED BY HIM OR HIS SUBCONTRACTORS TO BE FREE FROM DEFECT IN MATERIAL AND WORKMANSHIP FOR A PERIOD OF ONE YEAR FOLLOWING THE DATE OF FINAL ACCEPTANCE OF THE WORK, UNLESS A LONGER PERIOD IS STIPULATED UNDER SPECIFIC HEADINGS, AND HE SHALL REPAIR OR REPLACE AT NO ADDITIONAL COST TO THE OWNER, ANY MATERIAL OR EQUIPMENT DEVELOPING DEFECTS AND SHALL ALSO MAKE GOOD ANY DAMAGE CAUSED BY SUCH DEFECTS OR THE CORRECTION OF DEFECTS.

NOTE THAT GUARANTEE SHALL RUN FROM DATE OF FINAL ACCEPTANCE OF THE WORK, NOT FROM DATE OF INSTALLATION OF A DEVICE OR PIECE OF EQUIPMENT.

CUTTING & PATCHING
NO CUTTING OR BURNING OF HOLES THROUGH BEAMS OR OTHER STRUCTURAL MEMBERS SHALL BE DONE WITHOUT THE SPECIFIC PERMISSION OF THE ARCHITECT.

ALL OPENINGS IN WALLS, CEILINGS, OR FLOORS MADE BY THE CONTRACTOR SHALL BE NEATLY PATCHED BY THE SAME AFTER OTHER WORK IS DONE.

ALL MEASUREMENTS NECESSARY FOR THE PROPER INSTALLATION OF MATERIALS OR APPARATUS SHALL BE TAKEN IN THE FIELD. THE CONTRACTOR WILL BE HELD RESPONSIBLE FOR THE CORRECT FIT OF WORK INSTALLED.

GROUNDING
ALL CABINETS, CONDUIT SYSTEMS, PANELBOARDS, ETC., SHALL BE THOROUGHLY GROUNDED IN ACCORDANCE WITH THE REQUIREMENTS OF THE NATIONAL ELECTRICAL CODE.

PROVIDE A SEPARATE GROUND WIRE IN EACH RACEWAY.

CONDUITS & FITTINGS
CONDUIT IN MASONRY PARTITIONS, EXPOSED IN MECHANICAL AREAS, OUTSIDE OF MECHANICAL AREAS WITHIN 48" OF FLOOR AND CONDUIT LARGER THAN 2" SHALL BE HOT-DIP GALVANIZED, RIGID HEAVYWALL TYPE, UNLESS OTHERWISE NOTED.

CONDUIT 2" AND SMALLER WHICH IS CONCEALED IN DRYWALL PARTITIONS, ABOVE ACCESSIBLE CEILINGS AND WHERE EXPOSED ABOVE 48" AFF, SHALL BE ELECTRICAL METALLIC TUBING.

CONDUITS EXPOSED TO THE WEATHER SHALL BE RIGID GALVANIZED CONDUITS. CONDUIT FITTINGS AT THESE LOCATIONS SHALL BE NONFERROUS CAST TYPE EQUIPPED WITH GASKETED COVERS.

CONDUIT SHALL BE DELIVERED TO THE SITE IN STANDARD 10 FOOT LENGTHS, EACH LENGTH BEARING THE UL LABEL. HOT-DIP GALVANIZED CONDUIT SHALL BE SO LABELED.

MINIMUM SIZE OF CONDUIT SHALL BE 3/4", UNLESS OTHERWISE NOTED.

ALL CONDUIT SHALL BE SECURELY FASTENED IN PLACE WITH APPROVED CLAMPS AND CAREFULLY REAMED BEFORE INSTALLING.

CONDUITS IN MECHANICAL EQUIPMENT SPACES AND UNFINISHED AREAS MAY BE RUN EXPOSED. ALL OTHER CONDUIT SHALL BE CONCEALED, UNLESS OTHERWISE NOTED. EXPOSED CONDUIT SHALL BE INSTALLED PARALLEL, OR AT RIGHT ANGLES TO ADJACENT BUILDING LINES AND SHALL BE SUPPORTED AT INTERVALS NOT EXCEEDING EIGHT FEET.

GROUPS OF CONDUITS, WHERE SUSPENDED, SHALL BE SUPPORTED ON TRAPEZE TYPE HANGERS, USING 3/8" ROD AND CHANNEL IRON OR UNISTRUT. INDIVIDUAL CONDUITS NOT SUPPORTED ON PIPE STRAPS SHALL BE PROVIDED WITH CONDUIT CLAMPS OR RING HANGERS SUSPENDED ON RODS. PERFORATED IRON STRAPS OR SOFT IRON WIRE FOR PIPE SUPPORTS SHALL NOT BE USED.

CONNECTORS AND COUPLINGS FOR ELECTRICAL METALLIC TUBING SHALL BE OF THE SET-SCREW TYPE AS MANUFACTURED BY T & B, MIDWEST, OR ELECTRIC TUBE PRODUCTS CO.

ALL CONDUITS CALLED OUT TO BE STUBBED OFF, SHALL HAVE PROPER BUSHINGS, FINISH, ETC. SO THAT NO ROUGH EDGES ARE LEFT AT END OF CONDUITS.

ALL WIRING SHALL BE ENCLOSED IN A METAL RACEWAY, UNLESS OTHERWISE NOTED.

ALL EMPTY CONDUITS SHALL HAVE A NYLON "FISH TAPE" LEFT IN THEM.

ALL WALL AND FLOOR PENETRATIONS SHALL BE FIRE RATED TO MAINTAIN RATING OF SURFACE PENETRATED, OR 1 HOUR RATING MINIMUM. SEALING SHALL BE WITH 3M #CP25 FIRE PUTTY OR EQUAL BY NELSON.

OUTLET BOXES
ALL FLUSH MOUNTED OUTLET BOXES SHALL BE STANDARD GALVANIZED STEEL TYPE NOT LESS THAN 1-1/2" DEEP, OF TYPE AND SIZE TO ACCOMMODATE DEVICES SPECIFIED WITH PROPER SPACE FOR WIRE AND SUPPORTS. BOXES SHALL BE EQUIPPED WITH PLASTER RINGS OR COVERS AS REQUIRED.

ALL OUTLET BOXES, PULL BOXES AND JUNCTION BOXES SHALL BE RIGIDLY SECURED IN PLACE IN AN APPROVED METHOD.

CONDUCTORS OF FIRE ALARM AND FIRE PROTECTION CIRCUITS SHALL NOT BE INSTALLED IN THE SAME CONDUIT WITH CIRCUITS OF OTHER SYSTEMS. NO OUTLET BOX FOR ONE CONDUIT SYSTEM SHALL BE USED AS A JUNCTION BOX FOR ANY OTHER SYSTEM.

INSTALLATION OF CABLES
BEFORE CONDUCTORS ARE INSTALLED IN CONDUIT RUNS, THE CONDUITS SHALL BE SWABBED OR THE EQUIVALENT TO ENSURE THEIR DRYNESS AND FREEDOM FROM FOREIGN MATTER DETRIMENTAL TO THE CONDUCTOR INSULATION. ALL WIRING SHALL BE INSTALLED BEFORE FINISHES ARE APPLIED TO WALL AND CEILING SURFACES.

WIRES & CABLES
ALL WIRE AND CABLE SHALL CONFORM TO THE LATEST REQUIREMENTS OF THE CURRENT EDITION OF THE NEC AND SHALL MEET ALL ASTM SPECIFICATIONS. WIRE AND CABLE SHALL BE NEW; SHALL HAVE SIZE, GRADE OF INSULATION, VOLTAGE AND MANUFACTURER'S NAME PERMANENTLY MARKED ON OUTER COVERING AT REGULAR INTERVALS; SHALL BE DELIVERED IN COMPLETE COILS OR REELS WITH IDENTIFYING SIZE AND INSULATION TAGS.

WIRE AND CABLE SHALL BE SUITABLY PROTECTED FROM WEATHER AND DAMAGE DURING STORAGE AND HANDLING AND SHALL BE IN FIRST-CLASS CONDITION WHEN INSTALLED.

ALL WIRING SHALL BE THIN, THWN, XHHW OR TYPE THW UNLESS A HIGHER TEMPERATURE WIRE IS REQUIRED TO FEED LIGHTING FIXTURES, HIGH TEMPERATURE CUTOUTS, ETC.

ALL CONDUCTORS SHALL BE STRANDED, SOFT-DRAWN COPPER UNLESS OTHERWISE NOTED.

WIRE AND CABLE SHALL BE AS MANUFACTURED BY SOUTHWIRE, GENERAL CABLE, OKONITE OR ANACONDA.

MINIMUM SIZE WIRE SHALL BE #12 AWG UNLESS OTHERWISE NOTED.

PROVIDE A SEPARATE NEUTRAL CONDUCTOR FOR EACH CIRCUIT.

WIRE CONNECTORS
SPICES IN CONDUCTORS NO. 8 AND SMALLER SHALL BE MADE BY PREINSULATED "SCOTCH-LOCK" OR IDEAL "WING-NUT" SPRING TENSION CONNECTORS, INSTALLED IN STRICT ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS. SPICES OF NO. 6 CONDUCTORS AND LARGER SHALL BE MADE WITH SOLDERLESS, COMPRESSION TYPE CONNECTORS, U.L. LABELED AND COMPRESSED WITH APPROVED TOOLS.

ALL SPICES SHALL BE INSULATED WITH AN APPROVED VINYL PLASTIC ALL-WEATHER TAPE TO A THICKNESS EQUIVALENT OF THE CONDUCTOR INSULATION.

WIRING DEVICES
GENERAL PURPOSE WIRING DEVICES: COMPLY WITH NEMA WD1.

RECEPTACLES: UL 498, HEAVY-DUTY GRADE EXCEPT AS INDICATED OTHERWISE.

GROUND-FAULT CIRCUIT INTERRUPTER RECEPTACLES: UL 943, FEED-THROUGH TYPE, WITH INTEGRAL NEMA 5-20R DUPLEX RECEPTACLE; FOR INSTALLATION IN A 2 3/4 INCH DEEP OUTLET BOX WITHOUT AN ADAPTER.

SNAP SWITCHES: QUIET-TYPE AC TOGGLE SWITCHES, 120/277V, 20A, COMPLYING WITH UL 20.

DEVICE BODIES SHALL BE WHITE FOR GENERAL USE DEVICES, ORANGE FOR ISOLATED GROUND RECEPTACLES, AND BROWN IN MECHANICAL SPACES, UNLESS OTHERWISE NOTED.

ACCEPTABLE MANUFACTURERS OF GENERAL PURPOSE WIRING DEVICES ARE AS FOLLOWS: ARROW-HART, BRYANT, HUBBELL, PASS & SEYMOUR, AND LEVITON.

INSTALL DEVICES AND ASSEMBLIES PLUMB AND SECURE. MOUNT DEVICES FLUSH, WITH LONG DIMENSION VERTICAL, AND GROUNDING TERMINAL OF RECEPTACLES ON BOTTOM. GROUP ADJACENT SWITCHES USING MULTIGANG WALL OUTLET BOXES. DO NOT USE GANGABLE TYPE BOXES.

PROTECT DEVICES AND ASSEMBLIES DURING PAINTING. INSTALL WALL PLATES WHEN PAINTING IS COMPLETE.

LABELING
PROVIDE ENGRAVED THREE LAYER LAMINATED PLASTIC NAME PLATES TO IDENTIFY ALL ELECTRICAL EQUIPMENT INSTALLED UNDER THIS CONTRACT OR AS NOTED.

EQUIPMENT TO RECEIVE NAME PLATE SHALL INCLUDE, BUT NOT BE LIMITED TO: PANELBOARDS, SAFETY SWITCHES, BUS PLUGS, CONTROL PANELS, STARTERS.

NAME PLATES SHALL INCLUDE THE FOLLOWING INFORMATION - EQUIPMENT IDENTIFICATION, CIRCUIT NUMBER, CIRCUIT ORIGINATION OR LOAD SERVED (AS APPROPRIATE).

NAME PLATES SHALL BE SECURED TO PANELBOARDS, SAFETY SWITCHES, ENCLOSED CIRCUIT BREAKERS, IN CONSPICUOUS LOCATION, PARALLEL TO EQUIPMENT LINES USING SCREWS, RIVETS, OR PERMANENT ADHESIVE. NAME PLATES ON BUS PLUGS OR BUS TAP BOXES SHALL BE LOCATED ON BOTTOM OF PLUG OR BOX TO BE FED FROM FINISH FLOOR.

ALL SWITCHES AND RECEPTACLES SHALL BE IDENTIFIED AS TO CIRCUIT NUMBER AND PANELBOARD FED FROM USING PERMANENT MARKER ON INSIDE FACE OF DEVICE COVER PLATE. ALL JUNCTION AND PULL BOXES LOCATED ABOVE SUSPENDED CEILINGS SHALL BE MARKED ON THE OUTSIDE OF COVER TO IDENTIFY THE PANEL FED FROM AND THE CIRCUIT NUMBER USING PERMANENT MARKER.

ALL BOXES LOCATED IN EXPOSED CEILING AREAS SHALL BE MARKED ON THE INSIDE OF COVERS TO IDENTIFY THE PANEL FED FROM AND CIRCUIT NUMBER USING PERMANENT MARKER.

FUSES
ALL MAIN FUSES AND ALL FUSES ABOVE 600 AMPS SHALL BE HIGH-CAPACITY, CURRENT-LIMITING FUSES WITH A MINIMUM SHORT-CIRCUIT RATING OF 200,000 RMS AMPS; SHALL HAVE CHARACTERISTICS TO COORDINATE WITH OTHER FUSES AS NOTED; AND DIMENSIONS TO MOUNT IN SWITCHGEAR AS SPECIFIED. FUSES SHALL BE BUSSMAN "HI-CAP", TYPE KRP-C.

ALL OTHER FUSES SHALL BE DUAL ELEMENT, CURRENT LIMITING CARTRIDGE TYPE AND SHALL HAVE A MINIMUM SHORT-CIRCUIT RATING OF 200,000 RMS AMPS. FUSES SHALL BE BUSSMAN "LOW PEAK".

IN ADDITION OF FUSES BLOWN DURING CONSTRUCTION AND TESTING, A COMPLETE SET OF SPARE FUSES SHALL BE PROVIDED FOR EACH DIFFERENT AMP SIZE OF FUSES ON PROJECT.

FUSES
ALL CIRCUITS AND OTHER EQUIPMENT SHALL BE SELECTED IN RATINGS IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE, TO PROVIDE A COORDINATED SYSTEM OF OVER-CURRENT PROTECTION. THIS IN CASE OF A FAULT OR HARMFUL OVERLOAD, ONLY THE FUSES NEAREST THE FAULT OR OVERLOADED EQUIPMENT SHALL OPEN.

PANELBOARDS
PANELBOARDS SHALL CONFORM TO THE LATEST NEMA, UL, AND NEC STANDARDS AND THE FLOWING RATINGS AND DATA

SHALL BE DEAD FRONT TYPE WITH FLUSH OR SURFACE MOUNTED GALVANIZED STEEL CABINET PRIME COATED WITH AN INTERNAL ASSEMBLY OF CIRCUIT BREAKERS. TRIM SHALL HAVE HINGED AND LOCKED DOOR WITH HEAVY PLASTIC COVERED CIRCUIT DIRECTORIES; TO ALSO INDICATE VOLTAGE, PHASE, AND CAPACITY AS INDICATED ON DRAWINGS. ALL LOCKS SHALL BE KEYPED ALIKE. FRONT ASSEMBLIES SHALL BE PAINTED WITH A PRIME AND FINISH COAT OF MANUFACTURES STANDARD FINISH. PANELS SHALL HAVE MAIN LUGS OR MAIN CIRCUIT BREAKER AS INDICATED ON DRAWINGS

CIRCUIT BREAKERS SHALL BE MOLDED PLASTIC CASE TYPE, AC RATED, BOLT-ON, QUICK-MAKE, QUICK-BREAK, WITH TRIP FREE COMMON OPERATING HANDLE, POSITION INDICATION, AND COMMON TRIP FOR 2 AND 3 POLE CIRCUIT BREAKERS FROM THERMAL-MAGNETIC TRIP DEVICE. TRIP RATINGS AND NUMBER OF POLES SHALL BE AS INDICATED ON THE DRAWINGS AND MINIMUM INTERRUPTING CAPACITY SHALL BE 10,000 SYMMETRICAL AMPERES AT 120/240 VOLTS, AND 18,000 SYMMETRICAL AMPERES AT 277/480 VOLTS.

PANELBOARD DIRECTORIES SHALL DESIGNATE THE LIGHTING FIXTURES, ETC. CONTROLLED BY EACH BRANCH CIRCUIT IN THE PANEL. THE REQUIRED INFORMATION SHALL BE NEATLY TYPEWRITTEN ON DIRECTORIES IN EACH PANEL CIRCUIT.

PANELBOARDS SHALL BE UL LISTED, MAIN BUS BAR SHALL EXTEND THE FULL HEIGHT OF THE ENCLOSURE BEING PROVIDED REGARDLESS OF THE BRANCH CIRCUITS POSITIONS BEING CALLED FOR ON THE SCHEDULES

ACCEPTABLE MANUFACTURES OF PANELBOARDS INCLUDE SQUARE D, SEIMENS - I.T.E., EATON CULTER HAMMER, AND GENERAL ELECTRIC.

TEST AND ADJUSTMENTS
ALL ELECTRICAL CIRCUITS SHALL BE TESTED AS SOON AS CONDUCTORS ARE INSTALLED, AND FINAL TESTS SHALL BE MADE IN THE PRESENCE OF THE OWNER'S REPRESENTATIVE WHEN ALL WORK IS COMPLETE. IF REQUIRED, IF CIRCUITS ARE NOT PROPERLY CONTROLLED AND INSULATED, MAKE NECESSARY CHANGES AND REPAIRS.

LIGHTING
LIGHTING FIXTURES ARE TO BE PROVIDED AS SPECIFIED IN THE LIGHTING FIXTURE SCHEDULE ON THESE DOCUMENTS. FIXTURES SUBMITTALS ARE TO BE APPROVED BY THE ENGINEER PRIOR TO THE PURCHASE OF SAID DEVICES. ANY COSTS INCURRED IN THE ORDERING OF FIXTURES PRIOR TO ENGINEER'S AUTHORIZATION ARE THE RESPONSIBILITY OF THE CONTRACTOR.

FIXTURES ARE TO BE SUPPORTED INDEPENDENT OF THE CEILING SYSTEM.

OCCUPANCY SENSORS ARE TO BE OF THE TECHNOLOGY NOTED ON THE PLANS, WITH MOUNTING LOCATIONS SPECIFIC TO PRODUCT CAPABILITIES FOR FULL COVERAGE OF THE SPACE. SENSORS TO BE PROVIDED WITH TECHNOLOGY TO RESPOND ONLY TO MOVING BODIES (AND NOT NOISE OR AIR MOVEMENT) TO AVOID IMPROPER OPERATION. DEVICES ARE TO BE EQUIPPED FOR AUTOMATIC TIME DELAY AND SENSITIVITY SETTINGS. APPROVED MANUFACTURERS INCLUDE WATTSTOPPER, LG3D, LEVITON, SENSOR SWITCH.

TIME SWITCHES ARE TO BE ELECTRONIC, WITH INTERNAL RELAY CAPABLE OF SWITCHING CIRCUIT LOADS. TIMING ELEMENT TO BE SELECTABLE FROM 5 MINUTES TO 1 HOUR, IN NO MORE THAN 20 MINUTE INTERVALS.

ALL PARTS AND DEVICES NECESSARY FOR THE INSTALLATION AND OPERATION OF THE SPECIFIED LIGHTING FIXTURES AND CONTROL SYSTEMS ARE TO BE PROVIDED BY THE CONTRACTOR AS A COMPLETE SYSTEM, IN FULL WORKING ORDER. ANY LAMPS NOT OPERATIONAL MUST BE REPLACED PRIOR TO FINAL BUY-OFF.

SEAL OF ARCHITECT

ARCHITECT

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REVISIONS	
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Date	Description

Project

ESSEXVILLE-HAMPTON PUBLIC
305 Pine Street, Essexville, MI 48732IN
AND DESIGN

Drawing

Electrical Specifications

DRAWN BY: SJS
CHECKED BY: JSF

PROJECT NUMBER 25-028
DATE JULY 29, 2026
SCALE 1 1/2" = 1'-0"
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E2.0