

# ESSEXVILLE-HAMPTON PUBLIC SCHOOLS CENTER FOR

## 305 Pine Street, Essexville, MI 48732



### PROJECT TEAM

**ARCHITECT:** SEDGEWICK + FERWEDA ARCHITECTS  
410 EAST COURT STREET  
FLINT, MICHIGAN 48503  
**CONTACT:** LAUREN MEYER  
**TELEPHONE:** 989.980.8235  
**EMAIL:** LAUREN@SFARCH.US

**OWNER:** ESSEXVILLE-HAMPTON PUBLIC SCHOOLS  
313 PINE STREET  
ESSEXVILLE, MI 48732  
**CONTACT:** ERIC DEBO; FACILITIES  
**TELEPHONE:** 989.894.9700  
**EMAIL:** DEBOE@E-HPS.NET

**CONSTRUCTION MANAGER:** RC HENDRICK  
2885 S GRAHAM ROAD  
SAGINAW, MI 48609  
**CONTACT:** CHIP HENDRICK  
**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:**  
**MAX BUILDING HEIGHT:** 40' (MBC TABLE 504.3)  
**MAX BUILDING AREA:** 9,500 SF (MBC TABLE 506.2)  
**OCCUPANT LOAD:** 233 TOTAL OCCUPANTS (MBC TABLE 1004.1.2, NFPA 14.1.7 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) (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:**  
**CORRIDORS:** 1 HR FIRE PARTITION (MBC SECTION 708, NFPA 14.3.6)  
UL U419 STUD WALLS UL U905 MASONRY WALLS  
**HORIZONTAL BARRIERS:** 2 HR FIRE BARRIERS (MBC SECTION 707, NFPA 14.2.2.5, 7.2.4.3)  
UL U419 STUD WALLS UL U905 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:**  
**CORRIDOR AND ROOMS:** CLASS II (MBC SECTION 804 NFPA 14.3.3.3.1)

**INCIDENTAL USES:** VOCATIONAL SHOPS, 1-HR FIRE BARRIER (MBC TABLE 509)  
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, R5E

### 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                                                          |                  |                       |
| 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                                                     |                  |                       |
| C6.0      | Proposed Storm Sewer and Grading Sheet                              |                  |                       |
| C7.0      | SESC Key and Note Sheet                                             |                  |                       |
| A0.1      | General Notes                                                       |                  |                       |
| A0.2      | Life Safety Plans                                                   |                  |                       |
| A1.0      | Architectural Site Plan                                             |                  |                       |
| A2        | Exterior Elevations                                                 |                  |                       |
| A2.1      | First Floor Plan, Second Floor Plan and Enlarged Plans              |                  |                       |
| A2.2      | Reflected Ceiling Plan                                              |                  |                       |
| A2.3      | Roof & Mezzanine Framing Plans                                      |                  |                       |
| A2.4      | Foundation & Roof Plans                                             |                  |                       |
| A2.5      | Vertical Circulation                                                |                  |                       |
| A3.0      | Exterior Elevations                                                 |                  |                       |
| A4.0      | Building Sections                                                   |                  |                       |
| A5.0      | Interior Elevations                                                 |                  |                       |
| A6.0      | Door and Frame Types, Door Schedule, Room Schedule, Window Schedule |                  |                       |
| A7.0      | Wall Sections                                                       |                  |                       |
| A8.0      | Specifications                                                      |                  |                       |
| P1.0      | Plumbing Plan                                                       |                  |                       |
| M1.0      | Mechanical Plan                                                     |                  |                       |
| M2.0      | Mechanical Details                                                  |                  |                       |
| E1.0      | Electrical Plan                                                     |                  |                       |
| E1.1      | Lighting Plan                                                       |                  |                       |
|           |                                                                     | 1                | 8.6.26                |

### GENERAL NOTES

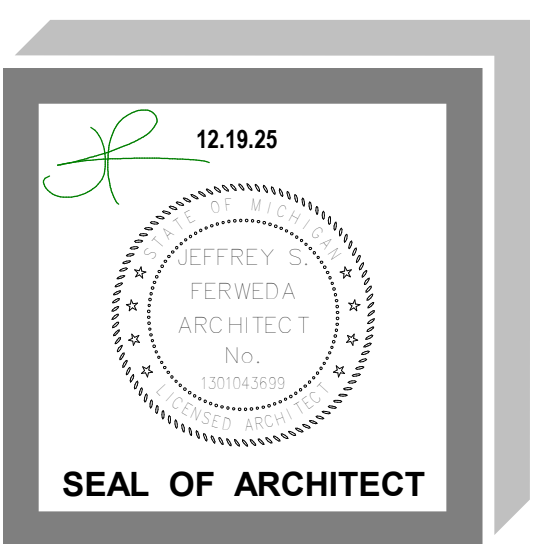
- DO NOT SCALE DRAWINGS. USE FIGURED DIMENSIONS ONLY.
- CONTRACTOR SHALL VERIFY ALL DIMENSIONS PRIOR TO ANY WORK.
- ALL WORK SHALL CONFORM TO ALL GOVERNING CODES AND REGULATIONS.

**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  
810-238-9647 | www.sfarch.us

Good clients + Good design + Great architecture



| REVISIONS |             |
|-----------|-------------|
|           |             |
|           |             |
|           |             |
|           |             |
|           |             |
|           |             |
| 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**

SURVEY MONUMENTATION

|  |                 |                                 |                      |
|--|-----------------|---------------------------------|----------------------|
|  | TRAVERSE POINT  |                                 | SET MONUMENT         |
|  | BENCHMARK       |                                 | FOUND MONUMENT       |
|  | ALIGNMENT POINT |                                 | SECTION & 1/4 CORNER |
|  | SET IRON        |                                 | 1/8 & 1/16 CORNER    |
|  | FOUND IRON      |                                 | NGS & USGS MONUMENT  |
|  |                 | SECTION LINE                    |                      |
|  |                 | EXISTING PROPERTY LINE (APPROX) |                      |
|  |                 | PARCEL LINE / LOT LINE          |                      |
|  |                 | EXISTING EASEMENT LINE          |                      |
|  |                 | EXISTING RIGHT OF WAY           |                      |
|  |                 | PROPOSED EASEMENT               |                      |
|  |                 | PROPOSED RIGHT OF WAY           |                      |
|  |                 | PROJECT CONTROL LINE            |                      |

MISCELLANEOUS TOPO

|  |                  |  |                       |
|--|------------------|--|-----------------------|
|  | SATELLITE DISH   |  | TRASH CAN             |
|  | ANTENNA          |  | PICNIC TABLE          |
|  | COLUMN           |  | PARK BENCH            |
|  | FLOOD LIGHT      |  | BBQ GRILL             |
|  | FOUNTAIN         |  | DUMPSTER              |
|  | STATUE/SCULPTURE |  | BIKE RACK             |
|  | GRAVE MARKER     |  | AIR CONDITIONING UNIT |
|  | PLANTER BOX      |  | PAY PHONE/BOOTH       |
|  | ROCK             |  | SOIL BORING           |
|  | MAILBOX          |  | MONITORING WELL       |
|  | PAPER BOX        |  | BUMPER BLOCK          |
|  | FENCE GATE       |  | SWAMP OR WETLAND      |

SIGNS, SIGNALS & POSTS

|  |                                  |  |                                |
|--|----------------------------------|--|--------------------------------|
|  | FLAG POLE                        |  | CANTILEVERED SIGN              |
|  | ADVERTISING/BUSINESS SIGN        |  | PEDESTRIAN SIGNAL              |
|  | POST (WOOD/METAL/CONCRETE/FENCE) |  | PEDESTRIAN CROSSING BUTTON     |
|  | HIGHWAY DELINEATOR POST          |  | TRAFFIC SIGNAL                 |
|  | EXISTING ONE POST TRAFFIC SIGN   |  | RAILROAD CROSSING GATE         |
|  | EXISTING TWO POST TRAFFIC SIGN   |  | RAILROAD CROSSING SIGNAL       |
|  | PARKING METER                    |  | PROPOSED ONE POST TRAFFIC SIGN |
|  | BILLBOARD                        |  | PROPOSED TWO POST TRAFFIC SIGN |
|  | CANTILEVERED TRAFFIC SIGNAL      |  |                                |

PLAYGROUND EQUIPMENT

|  |                         |  |                      |
|--|-------------------------|--|----------------------|
|  | SWING SET               |  | VOLLEYBALL POLE      |
|  | SLIDE (STRAIGHT)        |  | MERRY-GO-ROUND       |
|  | SLIDE (SPIRAL)          |  | BASKETBALL HOOP POST |
|  | MONKEY BARS (RECTANGLE) |  | FOOTBALL/SOCCER GOAL |
|  | MONKEY BARS (ROUND)     |  |                      |

MISCELLANEOUS UTILITIES

|  |                             |                                |                                   |
|--|-----------------------------|--------------------------------|-----------------------------------|
|  | CABLE TV RISER              |                                | UTILITY HANDHOLE                  |
|  | CABLE TV MARKER POST        |                                | STRAIN POLE                       |
|  | CIRCUIT BREAKER             |                                | UTILITY/LIGHT POLE                |
|  | ELECTRIC METER              |                                | GUY WIRE                          |
|  | ELECTRIC OUTLET             |                                | GUY POLE                          |
|  | ELECTRIC RISER              |                                | UTILITY POLE                      |
|  | ELECTRIC TRANSFORMER PAD    |                                | WOOD LIGHT POLE                   |
|  | ELECTRIC TRANSMISSION TOWER |                                | METAL LIGHT POLE                  |
|  | ELECTRIC MANHOLE            |                                | LIGHT POLE BASE                   |
|  | ELECTRIC MARKER POST        |                                | ORNAMENTAL LIGHT POLE             |
|  | TELEPHONE RISER             |                                | POLE BOX                          |
|  | TELEPHONE MANHOLE           |                                | TRAFFIC CONTROL BOX               |
|  | TELEPHONE MARKER POST       |                                | ELECTRIC VEHICLE CHARGING STATION |
|  | FIBER OPTIC MARKER POST     |                                | EXISTING MISCELLANEOUS MANHOLE    |
|  |                             | EXISTING OVERHEAD UTILITY LINE |                                   |
|  |                             | EXISTING U.G. ELECTRIC LINE    |                                   |
|  |                             | EXISTING U.G. TELEPHONE LINE   |                                   |
|  |                             | EXISTING U.G. FIBER OPTIC LINE |                                   |
|  |                             | EXISTING U.G. CABLE TV LINE    |                                   |

GAS

|  |              |                        |                  |
|--|--------------|------------------------|------------------|
|  | GAS METER    |                        | PROPANE TANK     |
|  | GAS RISER    |                        | GAS TEST STATION |
|  | GAS STOP BOX |                        | GAS FILLPORT     |
|  | GAS VALVE    |                        | GAS PUMP         |
|  | GAS VENT     |                        | GAS MANHOLE      |
|  | GAS BLOW OFF |                        | GAS MARKER POST  |
|  |              | EXISTING U.G. GAS LINE |                  |

WATER MAIN

|  |                                    |                     |                                    |
|--|------------------------------------|---------------------|------------------------------------|
|  | EXISTING FIRE HYDRANT              |                     | EXISTING WATER FAUCET/SPIGOT       |
|  | EXISTING WATER GATE VALVE AND BOX  |                     | EXISTING WATER MANHOLE             |
|  | EXISTING WATER STOP BOX            |                     | EXISTING WATER VALVE               |
|  | EXISTING WATER GATE VALVE AND WELL |                     | EXISTING WATER POST VALVE          |
|  | EXISTING WATER METER PIT           |                     | EXISTING WATER AIR RELEASE VALVE   |
|  | EXISTING WATER WELL                |                     | EXISTING WATER MARKER POST         |
|  | EXISTING SPRINKLER HEAD            |                     | PROPOSED FIRE HYDRANT              |
|  | EXISTING POST HYDRANT              |                     | PROPOSED WATER GATE VALVE AND BOX  |
|  | EXISTING WATER BACK FLOW PREVENTER |                     | PROPOSED WATER STOP BOX            |
|  | EXISTING WATER TOWER               |                     | PROPOSED WATER GATE VALVE AND WELL |
|  | EXISTING SPRINKLER VALVE           |                     | PROPOSED WATER MAIN REDUCER        |
|  | EXISTING WATER METER               |                     | PROPOSED WATER MAIN SLEEVE         |
|  |                                    | EXISTING WATER MAIN |                                    |
|  |                                    | REMOVE WATER MAIN   |                                    |
|  |                                    | ABANDON WATER MAIN  |                                    |
|  |                                    | PROPOSED WATER MAIN |                                    |

STORM SEWER

|  |                                       |                                      |                                                          |
|--|---------------------------------------|--------------------------------------|----------------------------------------------------------|
|  | EXISTING CURB INLET                   |                                      | PROPOSED CATCH BASIN IN CURB LINE (5' DIA AND SMALLER)   |
|  | EXISTING SQUARE CATCHBASIN            |                                      | PROPOSED CATCH BASIN IN CURB LINE (6' DIA AND LARGER)    |
|  | EXISTING ROUND CATCHBASIN             |                                      | PROPOSED CATCH BASIN IN GREEN SPACE (5' DIA AND SMALLER) |
|  | EXISTING DOWNSPOUT                    |                                      | PROPOSED CATCH BASIN IN GREEN SPACE (6' DIA AND LARGER)  |
|  | EXISTING STORM SEWER CLEANOUT         |                                      | PROPOSED STORM MANHOLE (5' DIA AND SMALLER)              |
|  | EXISTING STORM MANHOLE                |                                      | PROPOSED STORM MANHOLE (6' DIA AND LARGER)               |
|  | EXISTING PIPE INLET/OUTLET            |                                      | PROPOSED CULVERT END SECTION                             |
|  | EXISTING STORM MARKER POST            |                                      | PROPOSED STORM SEWER CLEANOUT                            |
|  | EXISTING STORM SEWER STRUCTURE NUMBER |                                      | PROPOSED STORM SEWER STRUCTURE NUMBER                    |
|  |                                       | EXISTING STORM SEWER                 |                                                          |
|  |                                       | EXISTING DRIVE/CROSS CULVERT         |                                                          |
|  |                                       | REMOVE STORM SEWER                   |                                                          |
|  |                                       | ABANDON STORM SEWER                  |                                                          |
|  |                                       | PROPOSED STORM SEWER LESS THAN 24"   |                                                          |
|  |                                       | PROPOSED STORM SEWER 24" AND GREATER |                                                          |

SANITARY SEWER

|  |                                          |                              |                                          |
|--|------------------------------------------|------------------------------|------------------------------------------|
|  | EXISTING SANITARY MANHOLE                |                              | EXISTING SANITARY SEWER CLEANOUT/RISER   |
|  | EXISTING SANITARY PUMP STATION           |                              | EXISTING SANITARY MARKER POST            |
|  | EXISTING SANITARY SEWER VALVE            |                              | PROPOSED SANITARY SEWER MANHOLE          |
|  | EXISTING SEPTIC TANK                     |                              | PROPOSED SANITARY SEWER CLEANOUT         |
|  | EXISTING SANITARY SEWER STRUCTURE NUMBER |                              | PROPOSED SANITARY SEWER STRUCTURE NUMBER |
|  |                                          | EXISTING SANITARY SEWER      |                                          |
|  |                                          | REMOVE SANITARY SEWER        |                                          |
|  |                                          | ABANDON SANITARY SEWER       |                                          |
|  |                                          | EXISTING SANITARY FORCE MAIN |                                          |
|  |                                          | REMOVE SANITARY FORCE MAIN   |                                          |
|  |                                          | ABANDON SANITARY FORCE MAIN  |                                          |
|  |                                          | PROPOSED SANITARY SEWER      |                                          |

COMBINED SEWER

|  |                                          |                         |                                 |
|--|------------------------------------------|-------------------------|---------------------------------|
|  | EXISTING CURB INLET                      |                         | EXISTING SQUARE CATCHBASIN      |
|  | EXISTING ROUND CATCHBASIN                |                         | EXISTING COMBINED SEWER MANHOLE |
|  | EXISTING COMBINED SEWER STRUCTURE NUMBER |                         |                                 |
|  |                                          | EXISTING COMBINED SEWER |                                 |
|  |                                          | REMOVE COMBINED SEWER   |                                 |
|  |                                          | ABANDON COMBINED SEWER  |                                 |

PARCEL INFORMATION

|         |                                             |
|---------|---------------------------------------------|
| 401-069 | PARCEL/TAX IDENTIFICATION NUMBER            |
|         | EXISTING BUILDING AND ADDRESS/BUSINESS NAME |

CAUTION SYMBOLS

|  |                                              |
|--|----------------------------------------------|
|  | USED WITH UNDERGROUND GAS & ELECTRICAL LINES |
|  | USED WITH FIBER OPTIC LINES                  |
|  | USED WITH CRITICAL UNDERGROUND LINES         |

PLAN VIEW LINETYPES

|  |                                    |
|--|------------------------------------|
|  | EXISTING CENTERLINE OF DITCH       |
|  | EXISTING FENCE                     |
|  | EXISTING GUARDRAIL                 |
|  | EXISTING RAILROAD TRACK            |
|  | EXISTING CONTOUR MAJOR             |
|  | EXISTING CONTOUR MINOR             |
|  | EXISTING EDGE OF WETLAND           |
|  | EXISTING SHORELINE / EDGE OF WATER |
|  | EXISTING TOP OF BANK               |
|  | EXISTING TOE OF SLOPE              |
|  | PROPOSED DITCH CENTERLINE          |
|  | PROPOSED FENCE                     |
|  | PROPOSED CONTOUR MAJOR             |
|  | PROPOSED CONTOUR MINOR             |
|  | PROPOSED SLOPE STAKE LINE          |
|  | PROPOSED SILT FENCE                |

PROPOSED CALLOUTS

|  |                               |
|--|-------------------------------|
|  | ADJUST STRUCTURE              |
|  | ADJUST STRUCTURE W/ NEW COVER |
|  | ADJUST STRUCTURE BY OTHERS    |
|  | RECONSTRUCT STRUCTURE         |
|  | RELOCATE                      |
|  | RELOCATE BY OTHERS            |
|  | REMOVE                        |
|  | REMOVE AND REPLACE            |
|  | SALVAGE                       |
|  | SAVE                          |
|  | ABANDON                       |
|  | CLEARING                      |
|  | BULKHEAD                      |
|  | SIDEWALK RAMP TYPE            |
|  | SOIL EROSION CONTROL MEASURE  |

TREES & SHRUBS

|  |                 |                        |                  |
|--|-----------------|------------------------|------------------|
|  | STUMP           |                        | CONIFEROUS TREE  |
|  | DECIDUOUS TREE  |                        | CONIFEROUS SHRUB |
|  | DECIDUOUS SHRUB |                        | DEAD TREE        |
|  |                 | EXISTING EDGE OF WOODS |                  |
|  |                 | EXISTING EDGE OF BRUSH |                  |

PAVEMENT IDENTIFICATION

|  |                               |
|--|-------------------------------|
|  | EXISTING EDGE OF GRAVEL       |
|  | EXISTING CURB AND GUTTER      |
|  | PROPOSED FLOW CURB AND GUTTER |

REMOVAL HATCHING LEGEND

|  |                        |
|--|------------------------|
|  | REMOVE CURB AND GUTTER |
|  | REMOVE PAVEMENT        |
|  | REMOVE SIDEWALK        |

PROPOSED HATCHING LEGEND

|  |                                        |
|--|----------------------------------------|
|  | PROPOSED PAVEMENT                      |
|  | PROPOSED CONCRETE SIDEWALK OR DRIVEWAY |

SEAL OF ENGINEER

ARCHITECT  
SEDGEWICK+ FERWEDA ARCHITECTS

410 East Court Street Flint, MI 48503  
810-238-9647 | www.sfarch.us

Good clients +Good design+Great architecture

REVISIONS

| Date    | Description       |
|---------|-------------------|
| 6.10.26 | .SITE PLAN REVIEW |

Project  
Essexville STEM  
305 Pine Street, Essexville, MI 48732

Drawing  
LEGEND SHEET

DRAWN BY: MCC  
CHECKED BY: DAS  
PROJECT NUMBER 25-028  
DATE JUNE 2026  
SCALE N.T.S.  
SHEET NUMBER

C1.0



Know what's below.  
Call before you dig.

|                                               |                             |
|-----------------------------------------------|-----------------------------|
|                                               |                             |
| PLAN SUBMITTALS AND CHANGES                   |                             |
| SITE PLAN APPROVAL - **NOT FOR CONSTRUCTION** |                             |
| DATE                                          | DESCRIPTION                 |
| 6-10-26                                       | ISSUED FOR SITE PLAN REVIEW |
|                                               |                             |
|                                               |                             |
|                                               |                             |
|                                               |                             |
|                                               |                             |

GENERAL CONSTRUCTION NOTES

EMERGENCY CONTACTS

BEFORE BEGINNING WORK ON THE PROJECT, THE CONTRACTOR SHALL PROVIDE THE OWNER AND ENGINEER WITH THE NAMES AND TELEPHONE NUMBERS OF EMERGENCY CONTACTS. AT LEAST ONE PERSON REPRESENTING THE CONTRACTOR SHALL BE AVAILABLE TO RESPOND TO EMERGENCIES THROUGHOUT THE LIFE OF THE PROJECT, 24 HOURS A DAY, 7 DAYS A WEEK.

UNDERGROUND UTILITY IDENTIFICATION AND LOCATION

THE CONTRACTOR SHALL CALL MISS DIG (1-800-482-7171) A MINIMUM OF 3 WORK DAYS IN ADVANCE OF BEGINNING EXCAVATION. THE CONTRACTOR IS RESPONSIBLE TO IDENTIFY AND NOTIFY UTILITY AGENCIES WITHIN THE PROJECT AREA WHICH DO NOT PARTICIPATE IN THE MISS DIG NOTIFICATION PROGRAM.

PUBLIC UTILITIES

EXISTING UTILITIES ARE SHOWN BASED UPON RECORDS AND LOCATIONS PROVIDED BY UTILITY AGENCIES. THE INFORMATION SHOWN IS CONSIDERED APPROXIMATE AND SHALL BE VERIFIED BY THE CONTRACTOR. UNLESS THE PLANS SPECIFICALLY SHOW THAT EXISTING UTILITIES ARE TO BE MOVED, THE CONTRACTOR IS RESPONSIBLE TO PROTECT AND MAINTAIN EXISTING UTILITIES.

VERIFICATION OF UNDERGROUND UTILITIES

THE CONTRACTOR SHALL EXCAVATE AND LOCATE ALL EXISTING UTILITIES IN THE PROJECT AREA IN ADVANCE OF CONSTRUCTION TO VERIFY THEIR ACTUAL LOCATION. POTENTIAL CONFLICTS SHALL BE REPORTED TO THE ENGINEER. THE CONTRACTOR SHALL MAKE SUCH CHANGES TO GRADE AND ALIGNMENT OF PROPOSED WORK AS DIRECTED BY THE ENGINEER TO AVOID CONFLICTS, AT NO INCREASE IN COST TO THE OWNER.

UTILITY SERVICE

UNLESS SPECIFICALLY PROVIDED OTHERWISE IN THE CONTRACT DOCUMENTS, ALL EXISTING UTILITIES ARE TO REMAIN IN SERVICE DURING THE PROJECT.

MAILBOXES

MAILBOXES LOCATED WITHIN THE LIMITS OF EXCAVATION, GRADING, OR CONSTRUCTION SHALL BE REMOVED AND PROTECTED FROM DAMAGE BY THE CONTRACTOR. TEMPORARY MAILBOXES SHALL BE PROVIDED AND MAINTAINED DURING THE PROJECT. UPON COMPLETION OF GRADING OR CONSTRUCTION ACTIVITIES, THE ORIGINAL MAILBOX SHALL BE REINSTALLED.

MAILBOXES (AND/OR SUPPORTS) WHICH ARE DAMAGED AS A RESULT OF THE PROJECT SHALL BE REPLACED BY THE CONTRACTOR, AT THE CONTRACTOR'S EXPENSE. MAILBOXES SHALL BE REPLACED IN ACCORDANCE WITH THE STANDARDS OF THE U.S. POSTAL SERVICE AND THE REGULATIONS OF THE AGENCY HAVING JURISDICTION OVER THE ROADS AND STREETS IN THE PROJECT AREA.

PRIVATE IRRIGATION SYSTEMS

WHERE IRRIGATION SYSTEMS WITHIN THE PUBLIC RIGHT-OF-WAY WILL INTERFERE WITH THE PROPOSED CONSTRUCTION, THE CONTRACTOR SHALL NOTIFY THE PROPERTY OWNERS THAT IT IS THEIR RESPONSIBILITY TO REMOVE AND PROTECT THEIR IRRIGATION SYSTEM. THE CONTRACTOR SHALL PROVIDE THE ENGINEER WITH A COPY OF THE NOTIFICATION.

WHERE THE OWNER HAS NOT REMOVED THEIR PRIVATE IRRIGATION SYSTEM, THE CONTRACTOR SHALL CUT AND PLUG THOSE SECTIONS OF PIPING WHICH INTERFERE WITH CONSTRUCTION. SPRINKLER HEADS, VALVES, AND PIPING WHICH INTERFERES WITH THE CONTRACTOR'S WORK, SHALL BE REMOVED AND STOCKPILED ON THE OWNER'S PROPERTY.

SOIL BORINGS / PAVEMENT CORES

IF PROVIDED ON THE PLANS OR IN THE CONTRACT DOCUMENTS, LOGS OF SOIL BORINGS OR PAVEMENT CORES REPRESENT THE SUBSURFACE CONDITIONS ENCOUNTERED AT SPECIFIC POINTS. THE INFORMATION IS PROVIDED FOR THE CONTRACTOR'S INFORMATION ONLY.

MAINTAINING TRAFFIC

LOCAL AND EMERGENCY TRAFFIC SHALL BE MAINTAINED AT ALL TIMES WITHIN THE PROJECT AREA.

WHEN EXCAVATION, FRESH CONCRETE, OR OTHER CONSTRUCTION WORK WILL RESULT IN THE CLOSURE OF A STREET OR DRIVEWAY FOR A PERIOD OF TIME, THE CONTRACTOR IS RESPONSIBLE TO NOTIFY ALL AFFECTED RESIDENTS AND BUSINESSES IN ADVANCE.

THE CONTRACTOR SHALL NOTIFY EMERGENCY RESPONSE AGENCIES IN ADVANCE OF ROAD CLOSURES OR THE ESTABLISHMENT OF DETOURS.

TRAFFIC SIGNS

TRAFFIC SIGNS WHICH INTERFERE WITH CONSTRUCTION SHALL BE REMOVED AND REPLACED BY THE AGENCY HAVING JURISDICTION OVER THE STREETS OR ROADS IN THE PROJECT AREA. THE CONTRACTOR IS RESPONSIBLE TO CONTACT THE AGENCY TO ARRANGE FOR REMOVAL OF THE SIGN AND IS RESPONSIBLE TO PAY ANY FEES ASSOCIATED WITH THE REMOVAL AND REPLACEMENT OF THE SIGNS.

SCHEDULE

THE CONTRACTOR SHALL COMPLETE ALL WORK IN AN EXPEDITIOUS MANNER AND SHALL NOT STOP WORK ON THE PROJECT ONCE BEGUN.

ALIGNMENT

ALIGNMENT AND GRADES FOR CURB AND GUTTER (INCLUDING THROUGH RAMPS AND DRIVEWAY OPENINGS) SHOWN ON THE PLANS ARE FOR THE TOP, BACK OF CURB, UNLESS SPECIFICALLY SHOWN OTHERWISE ON THE PLANS.

THE HORIZONTAL ALIGNMENT SHOWN ON THE DRAWINGS FOR DRAINAGE STRUCTURES LOCATED IN THE CURB LINE IS TO THE CENTER OF THE CASTING.

THE HORIZONTAL ALIGNMENT SHOWN ON THE DRAWINGS FOR DRAINAGE STRUCTURES WHICH ARE NOT IN THE CURB LINE AND FOR MANHOLES IS TO THE CENTER OF THE STRUCTURE.

WHERE RIM ELEVATIONS ARE PROVIDED ON THE PLANS FOR MANHOLE CASTINGS, THE ELEVATION PROVIDED IS FOR THE TOP OF THE CASTING.

WHERE RIM ELEVATIONS ARE PROVIDED FOR INLET TYPE CASTINGS, THE ELEVATIONS ARE PROVIDED AS FOLLOWS:

- CURB INLETS – THE ELEVATION OF THE TOP OF CURB
- ALL OTHER INLETS – THE ELEVATION OF THE FLOW LINE

WHERE RIM ELEVATIONS ARE PROVIDED ON THE PLANS FOR INLETS OR MANHOLE CASTINGS, THE ELEVATIONS PROVIDED ARE CONSIDERED PRELIMINARY. THE CONTRACTOR SHALL MAKE THE FINAL ADJUSTMENT FOLLOWING THE ESTABLISHMENT OF ACTUAL GRADING AND PAVEMENT ELEVATIONS.

CONSTRUCTION STAKING

WHEN CONSTRUCTION STAKING IS TO BE PROVIDED BY THE ENGINEER OR OWNER, THE CONTRACTOR SHALL REQUEST STAKING AT LEAST 3 WORKING DAYS IN ADVANCE.

WHEN CONSTRUCTION STAKING IS TO BE PROVIDED BY THE ENGINEER OR OWNER, STAKING WILL BE PROVIDED ONE TIME. THE CONTRACTOR SHALL PROTECT AND PRESERVE SURVEY CONTROL AND STAKING. RE-STAKING WILL BE AT THE CONTRACTOR'S EXPENSE.

SURVEY CORNERS, BENCHMARKS, AND CONTROL POINTS

THE CONTRACTOR SHALL PRESERVE ALL GOVERNMENT CORNERS, PROPERTY CORNERS, BENCHMARKS, SURVEY CONTROL POINTS AND OTHER SURVEY POINTS WITHIN THE PROJECT AREA. WHERE CORNERS, BENCHMARKS, OR SURVEY POINTS ARE ENCOUNTERED WHICH WILL BE DISTURBED BY THE CONTRACTOR'S ACTIVITIES; A LICENSED SURVEYOR SHALL WITNESS THE POINT BEFORE DISTURBANCE AND SHALL RE-SET THE POINT FOLLOWING THE COMPLETION OF CONSTRUCTION ACTIVITIES. THE CONTRACTOR SHALL PAY THE SURVEYOR TO WITNESS AND TO RE-SET THE POINTS.

WORK HOURS

UNLESS PROVIDED OTHERWISE IN THE CONTRACT DOCUMENTS OR LIMITED BY LOCAL ORDINANCE, THE CONTRACTOR SHALL WORK WITHIN OF THE FOLLOWING TIMES, UNLESS OTHERWISE APPROVED BY THE OWNER: MONDAY THROUGH SATURDAY 7 A.M. TO 7 P.M.

THE CONTRACTOR SHALL NOT WORK ON SUNDAYS OR HOLIDAYS, UNLESS OTHERWISE APPROVED BY THE OWNER.

PROTECTION OF TREES, SHRUBS, AND LANDSCAPING

ALL TREES, SHRUBS, AND LANDSCAPING WITHIN THE CONSTRUCTION AREA WHICH ARE NOT SPECIFICALLY DESIGNATED FOR REMOVAL SHALL BE PROTECTED FROM DAMAGE BY THE CONTRACTOR. DAMAGED TREES, SHRUBS, AND LANDSCAPING SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.

CONSTRUCTION SIGNING AND BARRICADING

THE CONTRACTOR SHALL PROTECT HAZARDOUS AREAS WITH BARRICADES. BARRICADES LEFT IN PLACE AFTER SUNSET SHALL BE LIGHTED.

THE CONTRACTOR SHALL PROVIDE SUITABLE SANDBAGS OR OTHER SUITABLE MEASURES FOR ANCHORING OF TEMPORARY SIGNS AND BARRICADES, TO PREVENT THEIR TIPPING OR DISPLACEMENT BY WIND OR AIR FLOW FROM VEHICLES.

THE CONTRACTOR SHALL PROVIDE SIGNING, BARRICADES, TRAFFIC REGULATORS, CONES, AND OTHER TRAFFIC CONTROL DEVICES IN ACCORDANCE WITH THE REQUIREMENTS OF THE AGENCY HAVING JURISDICTION OVER STREETS OR ROADS IN THE PROJECT AREA, THE CURRENT MICHIGAN MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, AND THE PLANS AND SPECIFICATIONS.

THE CONTRACTOR SHALL COVER OR REMOVE TEMPORARY SIGNS DURING PERIODS WHEN THEY ARE NOT APPROPRIATE.

TURF ESTABLISHMENT

ALL DISTURBED AREAS WHICH ARE NOT TO BE SURFACED WITH PAVEMENT, AGGREGATE OR OTHER APPROVED SURFACES SHALL BE ESTABLISHED WITH TURF.

TURF AREAS SHALL BE GRADED TO PROVIDE POSITIVE DRAINAGE.

DISTURBED AREAS SHALL BE SURFACED WITH 3 INCHES OF SCREENED TOPSOIL.

THE CONTRACTOR IS RESPONSIBLE TO ESTABLISH TURF WHICH IS SUBSTANTIALLY FREE OF BARE SPOTS AND FREE OF WEEDS. THE GROUND SURFACE IN TURF AREAS SHALL BE SMOOTH AND PROVIDE A NATURAL TRANSITION TO ADJACENT, UNDISTURBED AREAS.

THE CONTRACTOR IS RESPONSIBLE TO PROVIDE WATERING, WEEDING, RESEEDING, AND REWORKING AS NECESSARY TO ESTABLISH TURF AREAS TO THE REQUIRED STANDARD.

ADA COMPLIANCE

ALL PROPOSED CONSTRUCTION SHALL COMPLY WITH THE PROVISIONS OF THE AMERICANS WITH DISABILITIES ACT (ADA), AND APPLICABLE GUIDELINES OR STANDARDS. WHERE EXISTING CONDITIONS AND/OR THE REQUIREMENTS OF THE PLANS WILL RESULT IN FINISHED CONDITIONS THAT DO NOT MEET THE ADA REQUIREMENTS, GUIDELINES, OR STANDARDS; THE CONTRACTOR SHALL NOTIFY THE ENGINEER BEFORE PROCEEDING WITH CONSTRUCTION. THE CONTRACTOR IS RESPONSIBLE TO REMOVE AND REPLACE WORK DETERMINED TO BE NOT IN ACCORDANCE WITH APPLICABLE REQUIREMENTS, GUIDELINES, OR STANDARDS.

EARTHWORK

THE CONTRACTOR SHALL MAKE THEIR OWN DETERMINATION OF THE EARTHWORK QUANTITIES, AND BASE THEIR BID ON THEIR DETERMINATION OF THE QUANTITIES OF WORK REQUIRED.

IF ADDITIONAL FILL MATERIAL MUST BE PROVIDED TO ATTAIN THE FINISH GRADES SHOWN ON THE PLANS, THE CONTRACTOR SHALL PROVIDE THE REQUIRED FILL MATERIAL, UNLESS A SPECIFIC BORROW AREA IS IDENTIFIED ON THE PLANS.

EXCESS SOILS RESULTING FROM EXCAVATION AND EARTHWORK SHALL BECOME THE CONTRACTOR'S PROPERTY AND DISPOSED OF PROPERLY, UNLESS AN AREA(S) HAS BEEN DESIGNATED FOR STOCKPIILING OR 'BLENDING IN' THE EXCESS MATERIAL WITHIN THE PROJECT LIMITS.

BACKFILL AND EMBANKMENT

BACKFILL OF AN EXCAVATION UNDER OR WITHIN THE ONE ON ONE INFLUENCE OF AN EXISTING OR PROPOSED ROAD, SIDEWALK, DRIVEWAY, PAVEMENT, OR AGGREGATE SURFACE, SHALL BE SAND, MEETING THE REQUIREMENTS OF GRANULAR MATERIAL CLASS II AS DESCRIBED IN THE CURRENT MICHIGAN DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR CONSTRUCTION. THE SAND BACKFILL SHALL BE COMPACTED TO AT LEAST 95% OF ITS MAXIMUM UNIT WEIGHT.

BACKFILL OF AN EXCAVATION WHICH IS NOT UNDER OR WITHIN THE ONE ON ONE INFLUENCE OF AN EXISTING OR PROPOSED ROAD, SIDEWALK, DRIVEWAY, PAVEMENT, OR AGGREGATE SURFACE MAY BE SUITABLE EXCAVATED MATERIAL OR OTHER SOIL, WHICH IS FREE OF ORGANIC MATTER, STONES AND ROCKS, ROOTS, BROKEN CONCRETE, FROZEN MATERIAL, OR DEBRIS. THE BACKFILL SHALL BE COMPACTED TO AT LEAST 90% OF ITS MAXIMUM UNIT WEIGHT.

THE CONTRACTOR SHALL INDICATE THE SOURCE OF SAND USED FOR BACKFILL TO THE ENGINEER, AND PROVIDE THE ENGINEER WITH THE RESULTS OF A GRADATION TEST PERFORMED ON A SAMPLE OF THE SAND. THE CONTRACTOR SHALL NOTIFY THE ENGINEER IN ADVANCE OF USING SAND FROM OTHER SOURCES.

EMBANKMENT USED TO BUILD THE SUBGRADE TO REQUIRED ELEVATION SHALL BE SUITABLE SOIL EXCAVATED FROM THE PROJECT SITE, OR FURNISHED BY THE CONTRACTOR FROM OTHER SOURCES. SUITABLE SOIL IS FREE FROM ORGANIC MATTER, ROCKS AND STONES, FROZEN MATERIAL, BROKEN CONCRETE, AND DEBRIS.

EMBANKMENT CONSTRUCTED OF GRANULAR SOILS SHALL BE COMPACTED IN LIFTS NOT EXCEEDING 10 INCHES TO AT LEAST 95% OF ITS MAXIMUM UNIT WEIGHT.

EMBANKMENT CONSTRUCTED OF COHESIVE SOILS SHALL BE COMPACTED IN LIFTS NOT EXCEEDING 10 INCHES TO AT LEAST 95% OF ITS MAXIMUM UNIT WEIGHT.

DENSITY TESTING

THE MAXIMUM UNIT WEIGHT OF SAND AND OTHER GRANULAR SOILS WILL BE DETERMINED BY THE ONE POINT CONE TEST, AS DESCRIBED IN THE MICHIGAN DEPARTMENT OF TRANSPORTATION'S DENSITY TESTING AND INSPECTION MANUAL, EXCEPT WHEN ANOTHER TEST METHOD IS SPECIFIED.

THE MAXIMUM UNIT WEIGHT OF COHESIVE SOILS WILL BE DETERMINED BY THE ONE POINT PROCTOR TEST, AS DESCRIBED IN THE MICHIGAN DEPARTMENT OF TRANSPORTATION'S DENSITY TESTING AND INSPECTION MANUAL, EXCEPT WHEN ANOTHER TEST METHOD IS SPECIFIED.

DRAINAGE

THE CONTRACTOR SHALL MAINTAIN DRAINAGE OF THE PROJECT AREA AND ADJACENT AREAS. WHERE EXISTING DRAINAGE FACILITIES ARE DISTURBED OR BLOCKED BY CONSTRUCTION, THE CONTRACTOR SHALL PROVIDE AND MAINTAIN TEMPORARY PROVISIONS FOR DRAINAGE.

WHERE CONSTRUCTION HAS DISTURBED EXISTING DITCHES, SWALES, OR OTHER DRAINAGE FACILITIES; THE CONTRACTOR SHALL RESTORE THEM TO THEIR GRADES AND DIMENSIONS WHICH EXISTED PRIOR TO THE BEGINNING OF CONSTRUCTION, UNLESS DIRECTED OTHERWISE.

DRAINAGE SHALL NOT BE REROUTED ONTO ADJACENT PROPERTIES NOR ALLOWED TO DRAIN ONTO ADJACENT PROPERTIES AT AN INCREASED RATE, AS A RESULT OF THE CONTRACTOR'S WORK.

ADJUSTING STRUCTURES

WHERE CASTINGS FOR MANHOLES, CATCH BASINS, INLETS, VALVE BOXES, AND MONUMENT BOXES ARE TO BE ADJUSTED TO MEET A NEW PAVEMENT SURFACE ELEVATION, THE FINAL ADJUSTMENT SHALL NOT BE COMPLETED UNTIL ALL PAVEMENT COURSES HAVE BEEN PLACED EXCEPT THE FINAL COURSE. THE FINAL ADJUSTMENT SHALL BE COMPLETED JUST PRIOR TO PLACEMENT OF THE FINAL COURSE OF PAVEMENT.

THE MATERIALS AND PROCEDURES FOR ADJUSTING STRUCTURES SHALL MEET THE REQUIREMENTS OF THE AGENCIES HAVING JURISDICTION OVER THE ROAD AND UTILITIES.

SUBGRADE PREPARATION

TOPSOIL, PEAT, AND ORGANIC MATERIAL SHALL BE EXCAVATED AND REMOVED.

SOFT AND YIELDING SOILS SHALL BE REMOVED OR DRIED IF THE RESULT OF EXCESSIVE MOISTURE CONTENT.

PRIOR TO CONSTRUCTING FILLS, SUBBASE, OR PAVEMENT ON A SUBGRADE; THE SUBGRADE SHALL BE PROOF-ROLLED TO DETERMINE THE SUITABILITY OF THE SUBGRADE. THE CONTRACTOR SHALL DRIVE A HEAVY PIECE OF WHEELED CONSTRUCTION EQUIPMENT OVER THE SUBGRADE WHILE THE ENGINEER IS OBSERVING. THE CONSTRUCTION OF FILLS, SUBBASE, OR PAVEMENTS SHALL NOT PROCEED UNTIL THE SUBGRADE HAS BEEN DEMONSTRATED TO BE FREE OF SOFT AREAS.

THE CONTRACTOR IS RESPONSIBLE TO MAINTAIN THE MOISTURE CONTENT OF SUBGRADE SOILS WITHIN A SUITABLE RANGE TO ALLOW FOR COMPACTION TO THE REQUIRED DENSITY. WHEN THE SOIL IS TOO DRY, THE CONTRACTOR SHALL ADD WATER. WHEN THE SOIL IS TOO WET, THE CONTRACTOR SHALL PROVIDE DRAINAGE OR AERATE THE SOIL.

THE SURFACE OF THE SUBGRADE SHALL BE COMPACTED TO AT LEAST 95% OF ITS MAXIMUM UNIT WEIGHT, PRIOR TO CONSTRUCTING FILLS, SUBBASE, OR PAVEMENTS.

CURB AND GUTTERS

THE CONTRACTOR SHALL DETERMINE THE LOCATION AND DIMENSIONS OF CURB OPENINGS FOR DRIVEWAYS, RAMPS, AND DRAINAGE STRUCTURES.

HOT MIX ASPHALT (HMA) PAVING

PAVEMENTS WHICH ARE TO BE OVERLAID WITH A NEW PAVEMENT COURSE SHALL BE SWEEPED TO REMOVE ALL DIRT AND DEBRIS.

A BITUMINOUS BOND COAT SHALL BE APPLIED TO PAVEMENTS WHICH ARE TO BE OVERLAID WITH A NEW PAVEMENT COURSE AND ALLOWED TO CURE PRIOR TO CONSTRUCTING THE NEW PAVEMENT COURSE.

HMA PAVEMENT SHALL NOT BE PLACED WHEN THE SURFACE BEING OVERLAID IS WET, OR WHEN RAIN IS FORECAST OR THREATENING.

DRIVEWAY CONSTRUCTION

DRIVEWAY SLOPES SHALL NOT EXCEED 10%, EXCEPT WHERE SPECIFICALLY INDICATED OTHERWISE ON THE PLANS OR DIRECTED BY THE ENGINEER.

THE CONTRACTOR SHALL PROVIDE PROPERTY OWNERS WITH SUITABLE NOTICE BEFORE REMOVING AND REPLACING AN EXISTING DRIVEWAY.

SIDEWALK CONSTRUCTION

SIDEWALKS SHALL BE CONSTRUCTED TO PROVIDE POSITIVE DRAINAGE OF THE SIDEWALK AND ADJACENT SURFACES.

EXCEPT WHERE NECESSARY TO PROVIDE POSITIVE DRAINAGE OR MEET EXISTING SURFACES, SIDEWALK SHALL BE CONSTRUCTED WITH A CROSS SLOPE SLOPED TOWARD THE STREET.

SIDEWALK CROSS SLOPES SHALL NOT EXCEED 2%.

IN TURF AREAS, THE SURFACE OF THE SIDEWALK SHALL BE ABOUT 1/4 INCH HIGHER THAN THE ADJACENT GROUND SURFACES, EXCEPT WHERE NECESSARY TO PROVIDE POSITIVE DRAINAGE OR MEET EXISTING SIDEWALKS, CURBS, OR PAVEMENTS.

SIDEWALK SHALL BE CONSTRUCTED ON A SAND BASE, COMPACTED TO AT LEAST 95% OF ITS MAXIMUM UNIT WEIGHT.

THE CONTRACTOR SHALL NOTIFY THE ENGINEER WHEN SIDEWALK FORMS HAVE BEEN SET AND THE SAND BASE PREPARED. CONCRETE SHALL NOT BE PLACED UNTIL THE ENGINEER HAS OBSERVED THE FORMS. CONCRETE DELIVERY SHALL BE SCHEDULED TO ALLOW SUFFICIENT TIME FOR ADJUSTMENT OF THE FORMS, IN THE EVENT THAT ADJUSTMENT IS NECESSARY.

THE CONTRACTOR SHALL PROTECT FRESH CONCRETE FROM DAMAGE BY THE WEATHER, TRAFFIC, OR VANDALISM. DAMAGED CONCRETE SHALL BE REPLACED BY THE CONTRACTOR'S EXPENSE.

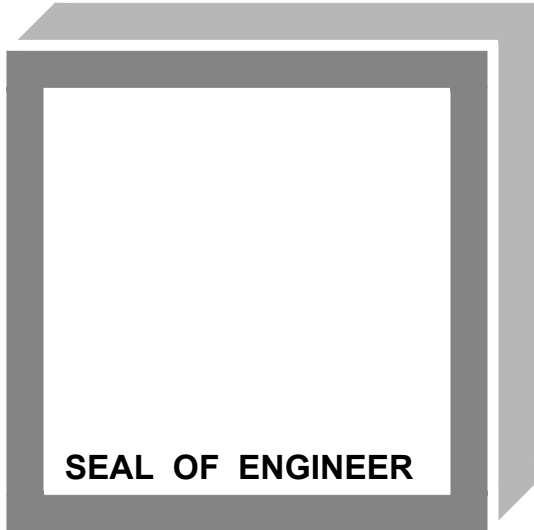
STORM SEWER CONSTRUCTION

DRAINAGE STRUCTURES SHALL BE CONSTRUCTED FROM PRECAST CONCRETE MANHOLE SECTIONS MEETING ASTM C478.

SUMPS IN DRAINAGE STRUCTURES AND PIPELINES SHALL BE FREE OF SEDIMENT AND DEBRIS AT THE TIME OF ACCEPTANCE BY THE OWNER.



Know what's below.  
Call before you dig.



ARCHITECT  
**SEDGEWICK+ FERWEDA ARCHITECTS**

410 East Court Street Flint, MI 48503  
810-238-9647 | [www.sfarch.us](http://www.sfarch.us)

Good clients +Good design+Great architecture



| REVISIONS |                  |
|-----------|------------------|
|           |                  |
|           |                  |
|           |                  |
|           |                  |
|           |                  |
| 6.10.26   | SITE PLAN REVIEW |
| Date      | Description      |

Project  
**Essexville STEM**  
**305 Pine Street, Essexville, MI 48732**

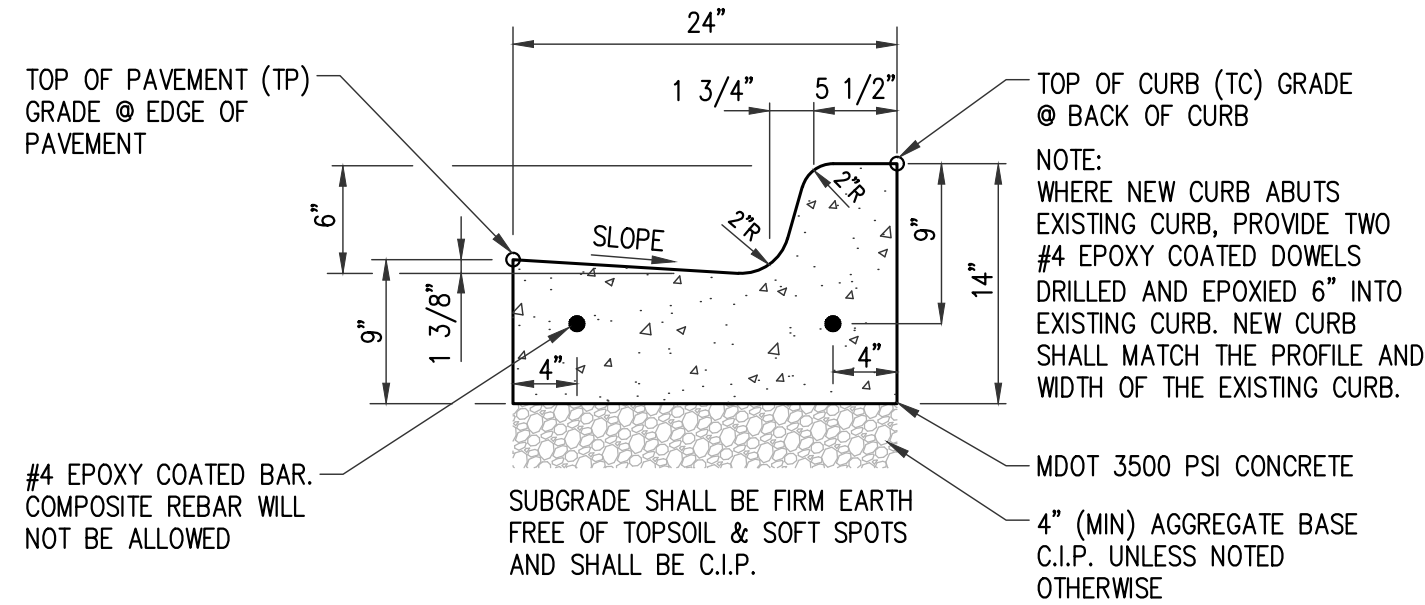
Drawing

**MISCELLANEOUS NOTE SHEET**

|                 |           |
|-----------------|-----------|
| DRAWN BY: MCC   |           |
| CHECKED BY: DAS |           |
| PROJECT NUMBER  | 25-028    |
| DATE            | JUNE 2026 |
| SCALE           | N.T.S.    |
| SHEET NUMBER    | C2.0      |

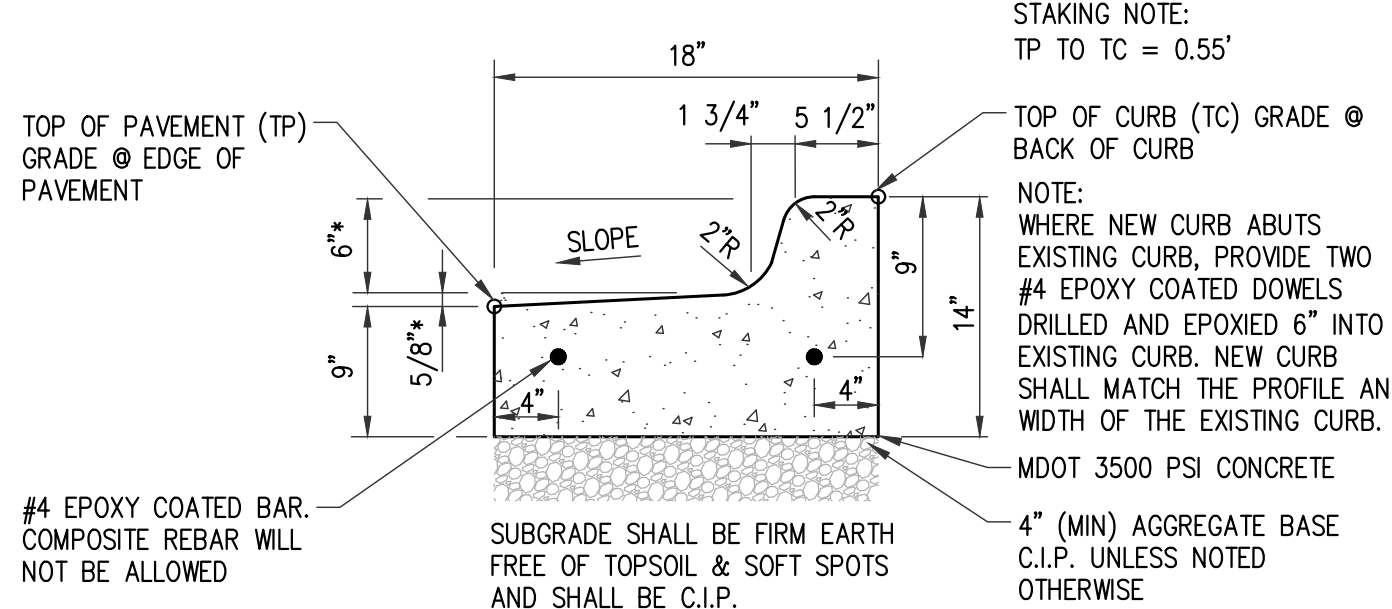
NOTES:  
CURB AND GUTTER SHALL BE CONSTRUCTED PER MDOT STANDARD  
PLAN R-30, LATEST VERSION.

STAKING NOTE:  
TP TO TC = 0.39'

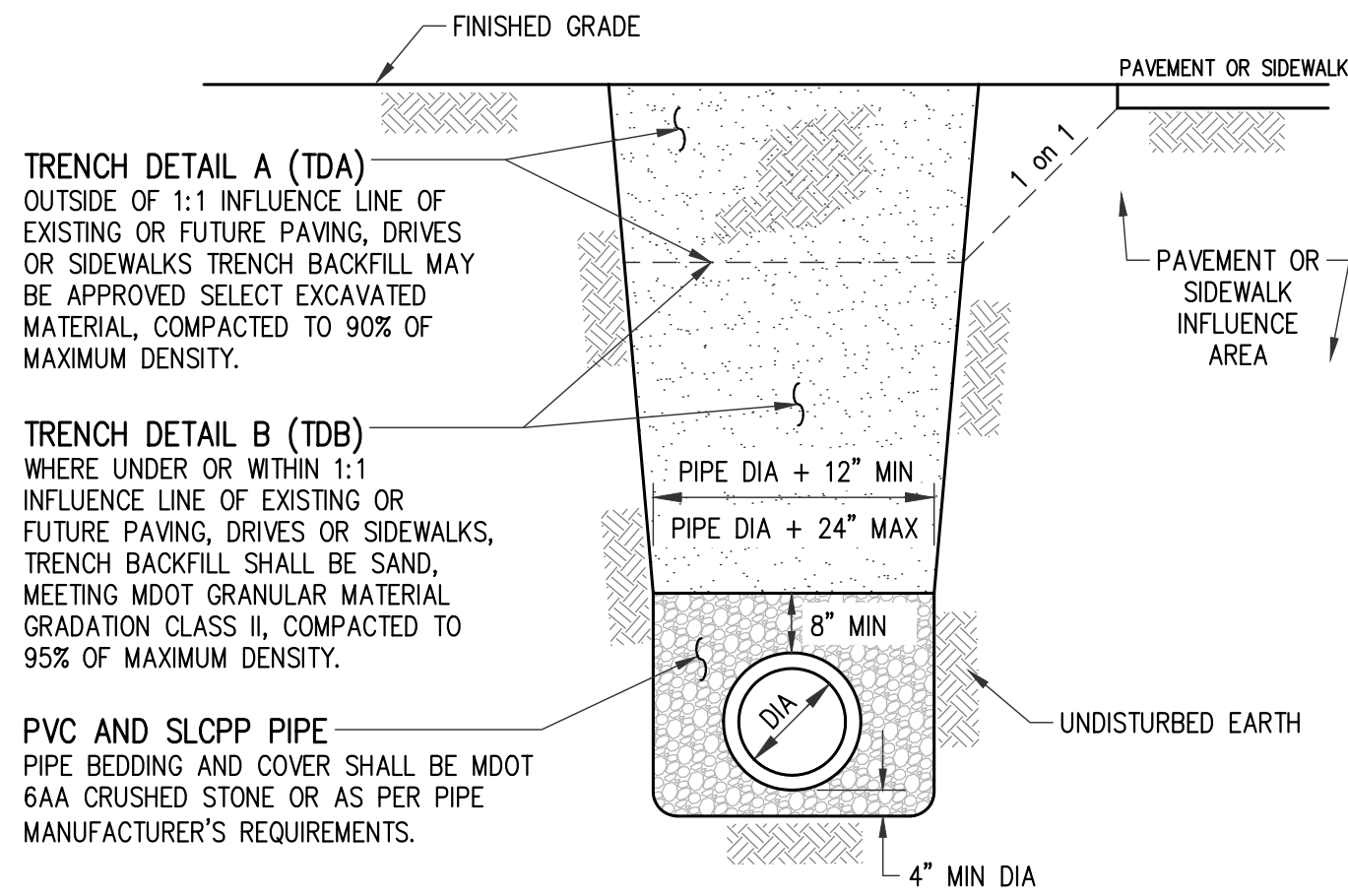


FOR STREET CURB AND GUTTER REPLACEMENT  
**MDOT F4 CONCRETE CURB & GUTTER DETAIL**

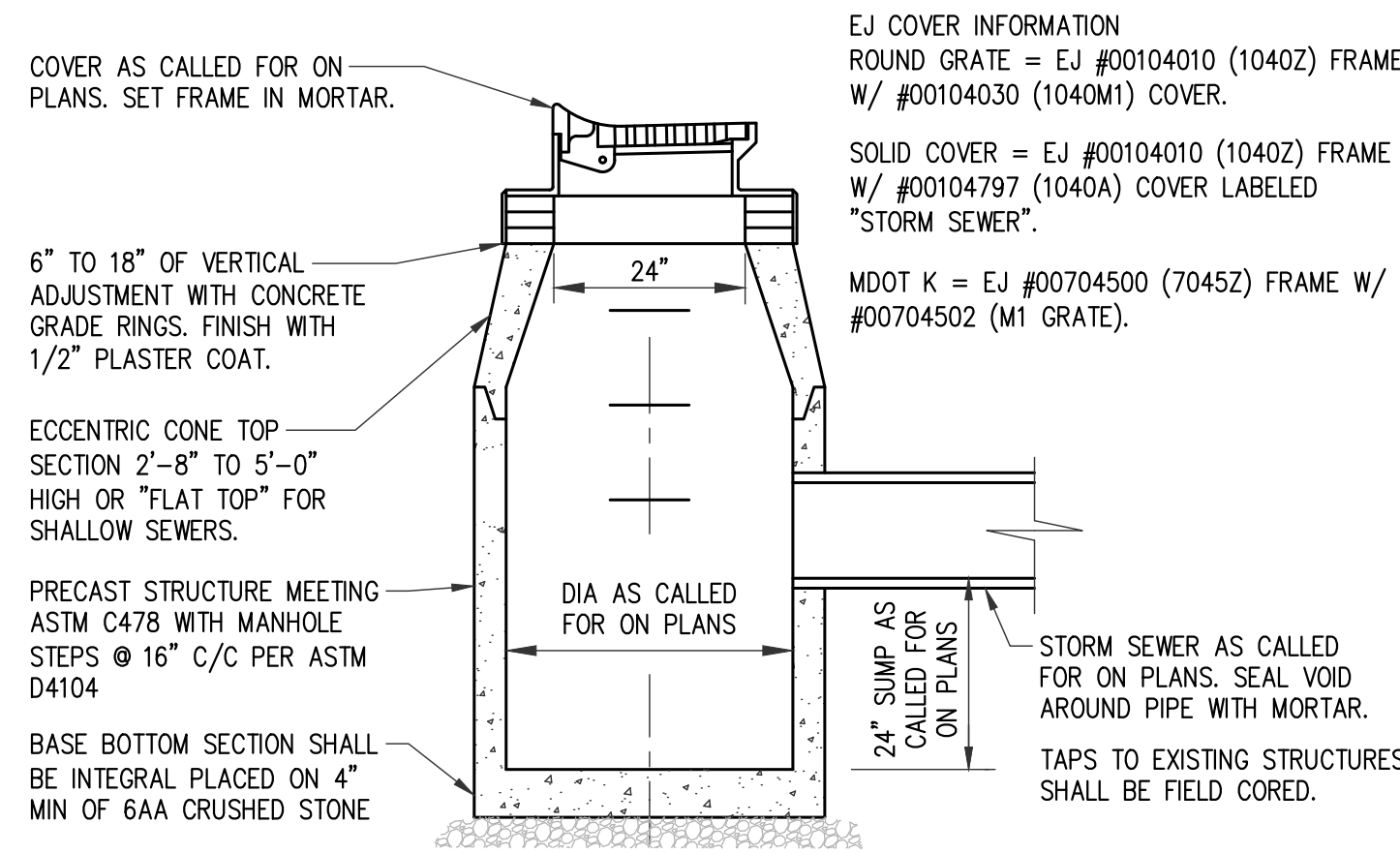
NOTES:  
CURB AND GUTTER SHALL BE CONSTRUCTED PER MDOT STANDARD PLAN R-30, LATEST VERSION EXCEPT  
AS NOTED BELOW.



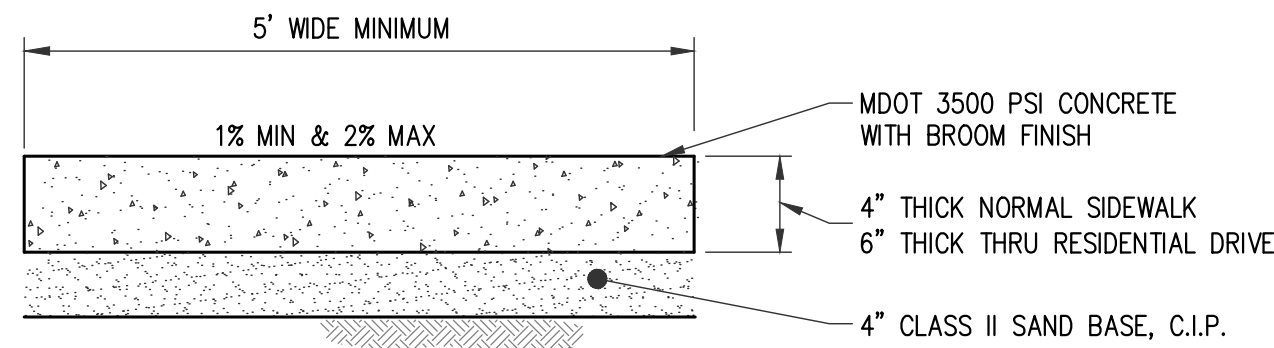
FOR PARKING LOT CURB AND GUTTER REPLACEMENT  
**MDOT F2 TIP-OUT CONCRETE CURB & GUTTER DETAIL**



**SEWER TRENCH DETAIL**



**DRAINAGE STRUCTURE DETAIL**

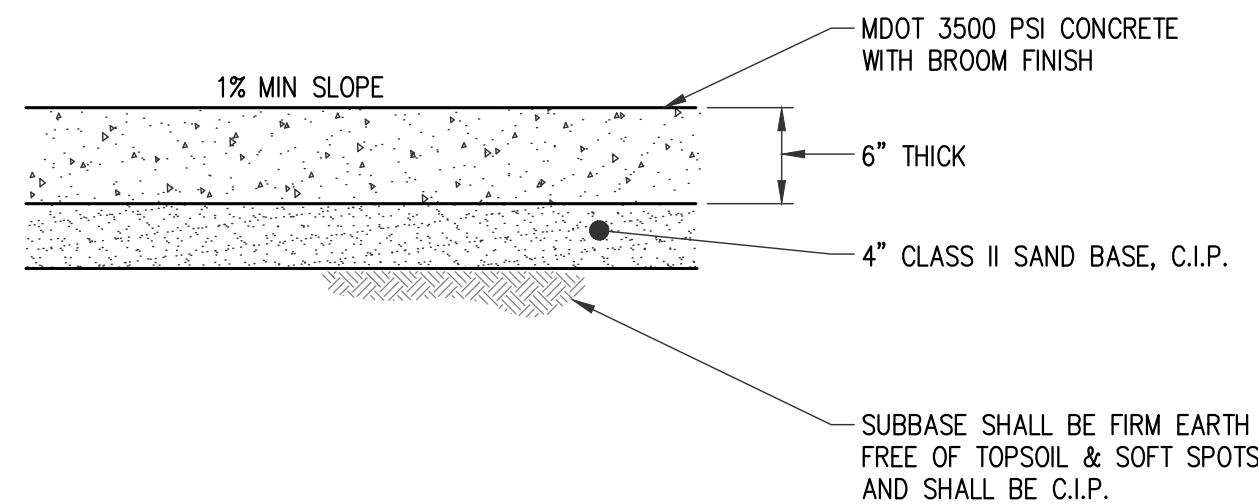


NOTES:  
SIDEWALKS SHALL BE CONSTRUCTED PER MDOT STANDARD  
PLAN R-29, LATEST VERSION.

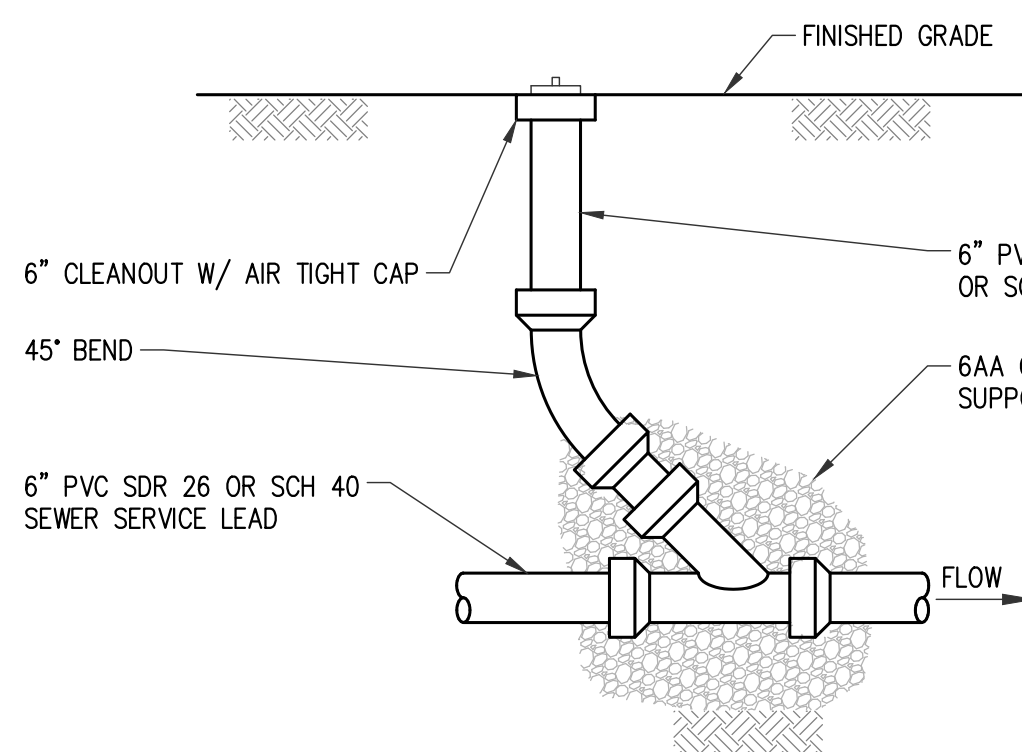
SIDEWALK FLAG LENGTH SHALL BE EQUAL TO THE WIDTH (6' LONG MAX  
UNLESS APPROVED OTHERWISE). PROVIDE EXPANSION JOINTS EVERY 50  
TO 100 FEET AS DIRECTED AND AT CHANGES IN DIRECTION.

WHEN SIDEWALK IS ADJACENT TO A BUILDING WALL OR RIDGED  
STRUCTURES, USE 1/2\"/>

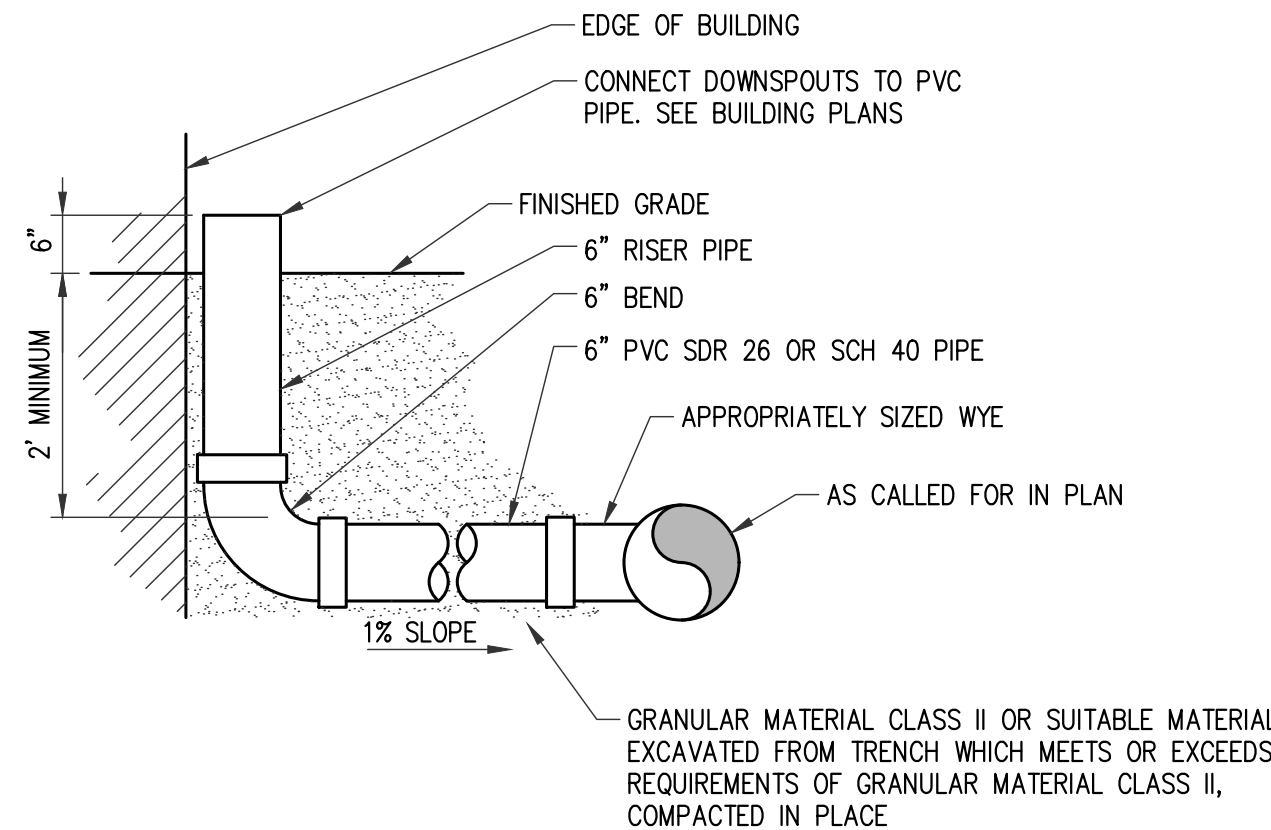
**CONCRETE SIDEWALK CROSS SECTION**



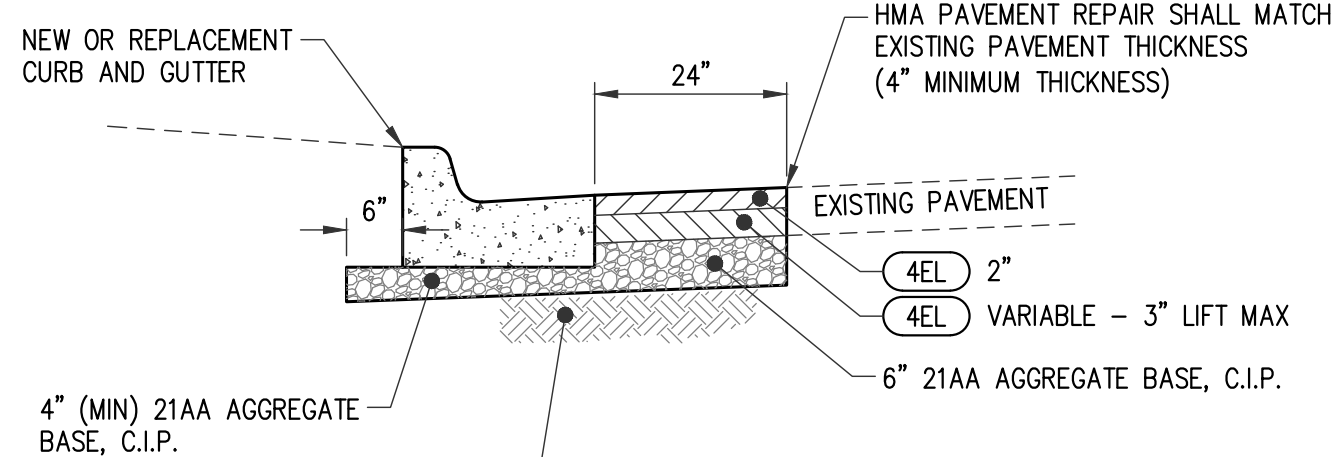
**CONCRETE DRIVEWAY CROSS SECTION**



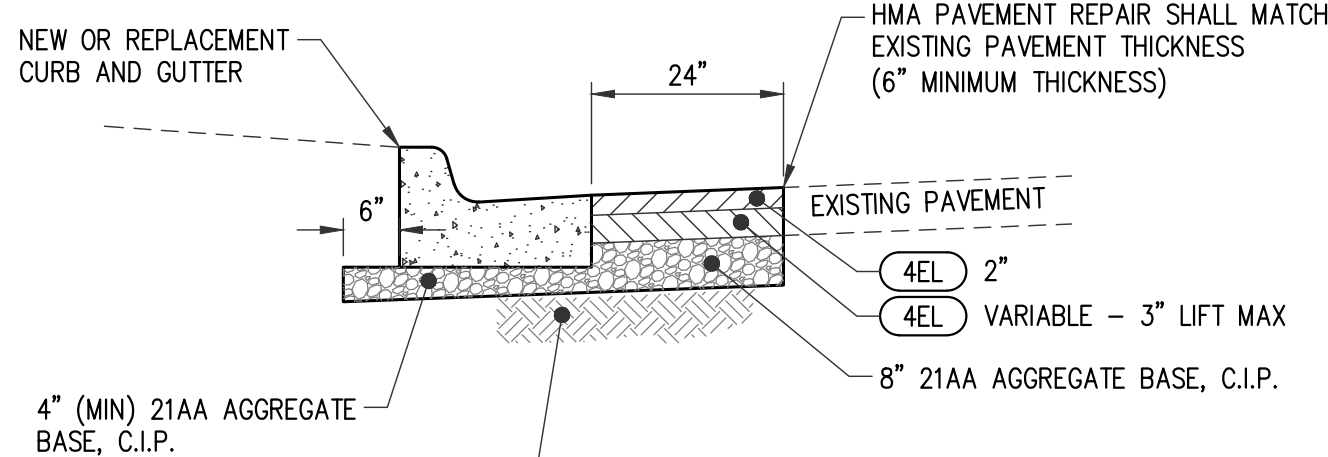
**CLEANOUT RISER IN GRASS AREA**



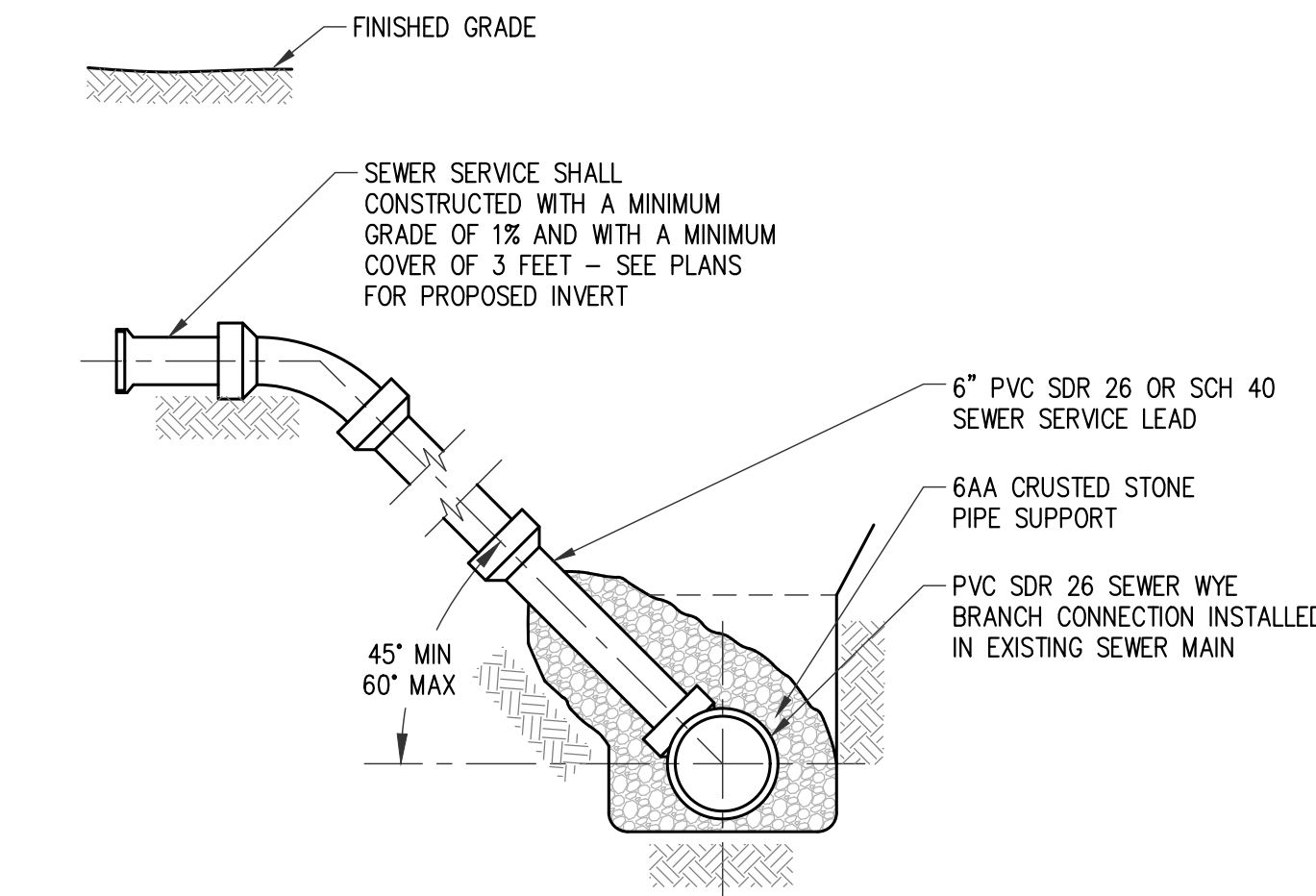
**DOWNSPOUT COLLECTION RISER DETAIL**



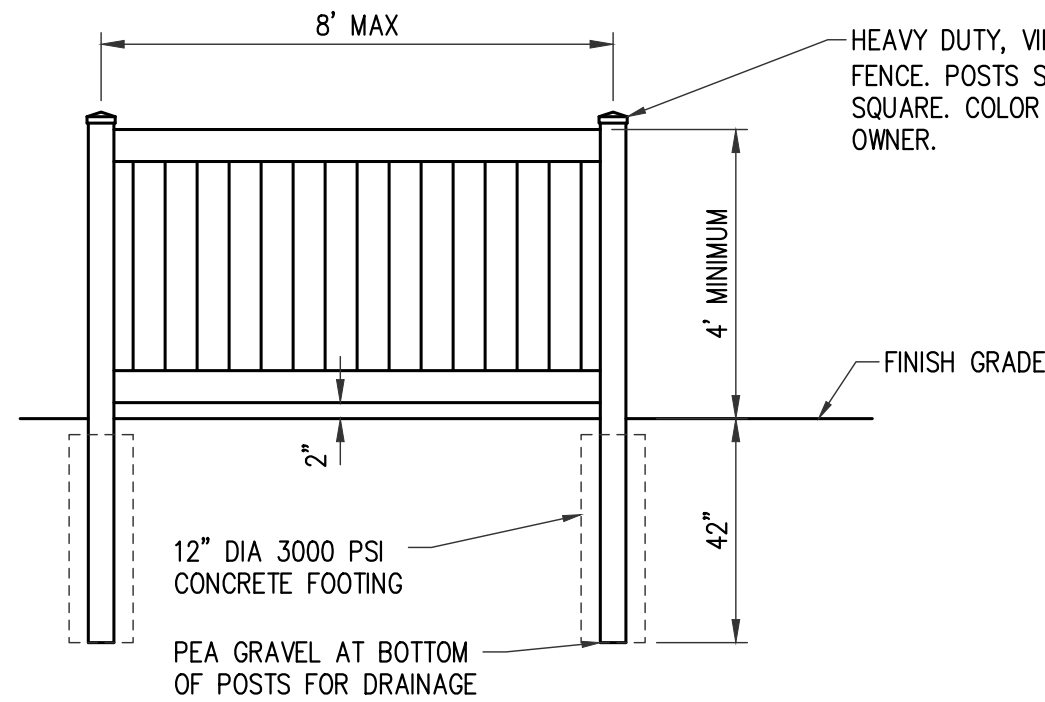
PARKING LOT  
**PAVEMENT REPAIR DETAIL FOR CURB REPLACEMENT**



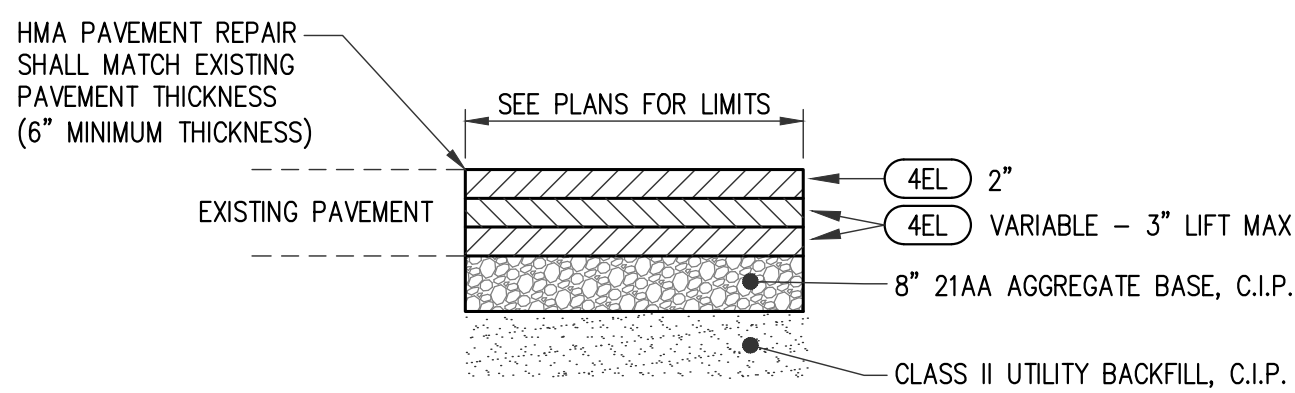
PINE STREET  
**PAVEMENT REPAIR DETAIL FOR CURB REPLACEMENT**



**SANITARY SERVICE CONNECTION**

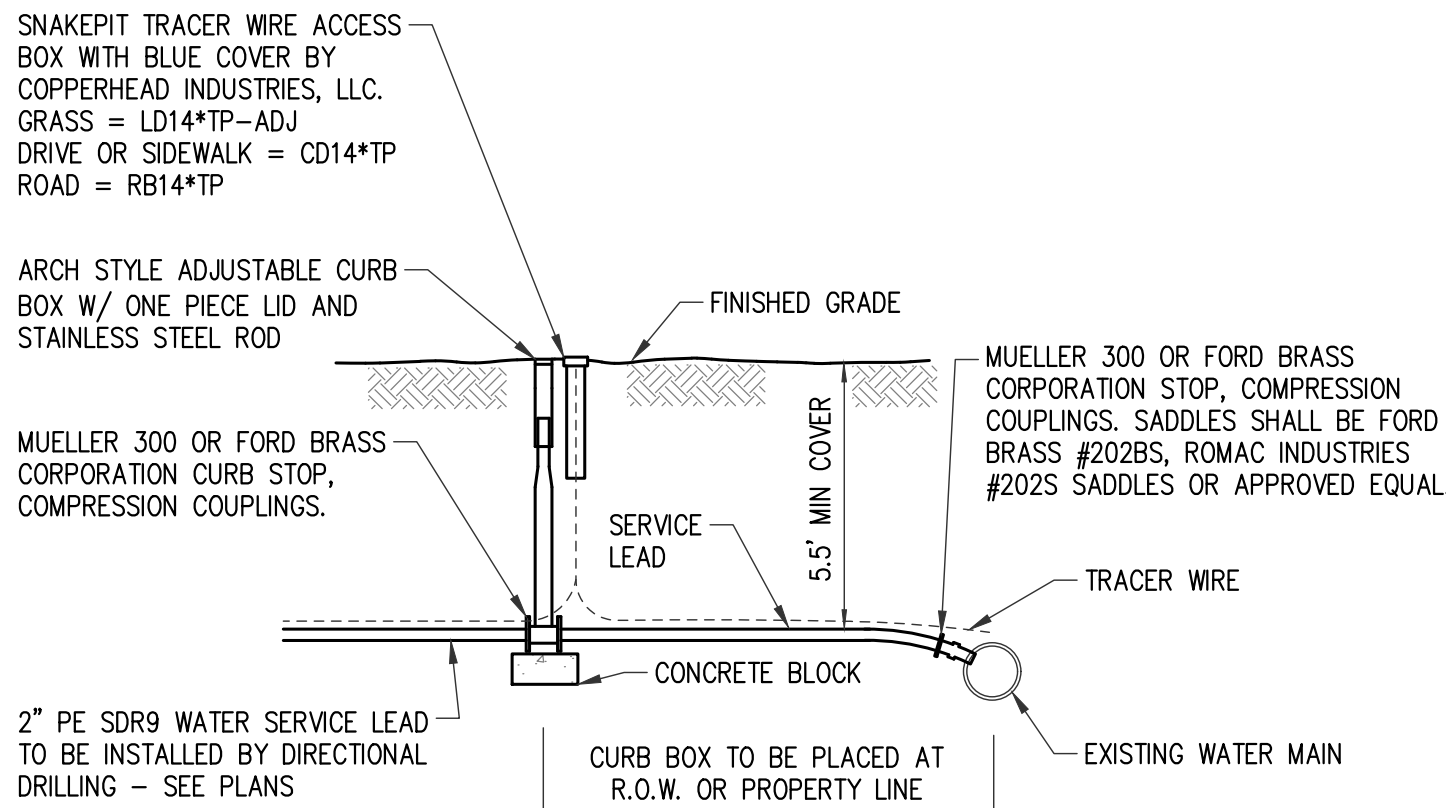


**SCREENING FENCE DETAIL**



PINE STREET  
**PAVEMENT REPAIR DETAILS FOR UTILITY WORK**

| HMA APPLICATION RATE TABLE                                                         |         |          |                      |                   |                                         |
|------------------------------------------------------------------------------------|---------|----------|----------------------|-------------------|-----------------------------------------|
| IDENT                                                                              | HMA MIX | PAY ITEM | RATE PER SQUARE YARD | PERFORMANCE GRADE | REMARKS                                 |
| 4EL 2"                                                                             | 4EL     |          | 220# / SYD           | 58-28             | TOP COURSE                              |
| 4EL                                                                                | 4EL     |          | 110# / SYD / INCH    | 58-28             | PAVEMENT REPAIR 330# / SYD MAXIMUM LIFT |
| RAP SHALL BE LIMITED TO TIER 1 DESIGN (17% MAX RAP BY BINDER WEIGHT) FOR ALL MIXES |         |          |                      |                   |                                         |
| BOND COAT RATE SHALL BE 0.05 TO 0.15 GAL / SYD                                     |         |          |                      |                   |                                         |
| TOP COURSE AGG. WEAR INDEX (AWI) = 220 MIN                                         |         |          |                      |                   |                                         |



**WATER SERVICE LEAD DETAIL**

SEAL OF ENGINEER

SEDGEWICK+ FERWEDA ARCHITECTS

410 East Court Street Flint, MI 48503  
810-238-9647 | www.sfarch.us

Good clients+Good design+Great architecture

ARCHITECT



REVISIONS

| DATE    | DESCRIPTION      |
|---------|------------------|
| 6.10.26 | SITE PLAN REVIEW |
|         |                  |
|         |                  |
|         |                  |
|         |                  |
|         |                  |

Project  
**Essexville STEM**  
305 Pine Street, Essexville, MI 48732

Drawing

MISCELLANEOUS DETAIL SHEET

DRAWN BY: MCC  
CHECKED BY: DAS

PROJECT NUMBER 25-028

DATE JUNE 2026

SCALE N.T.S.

SHEET NUMBER

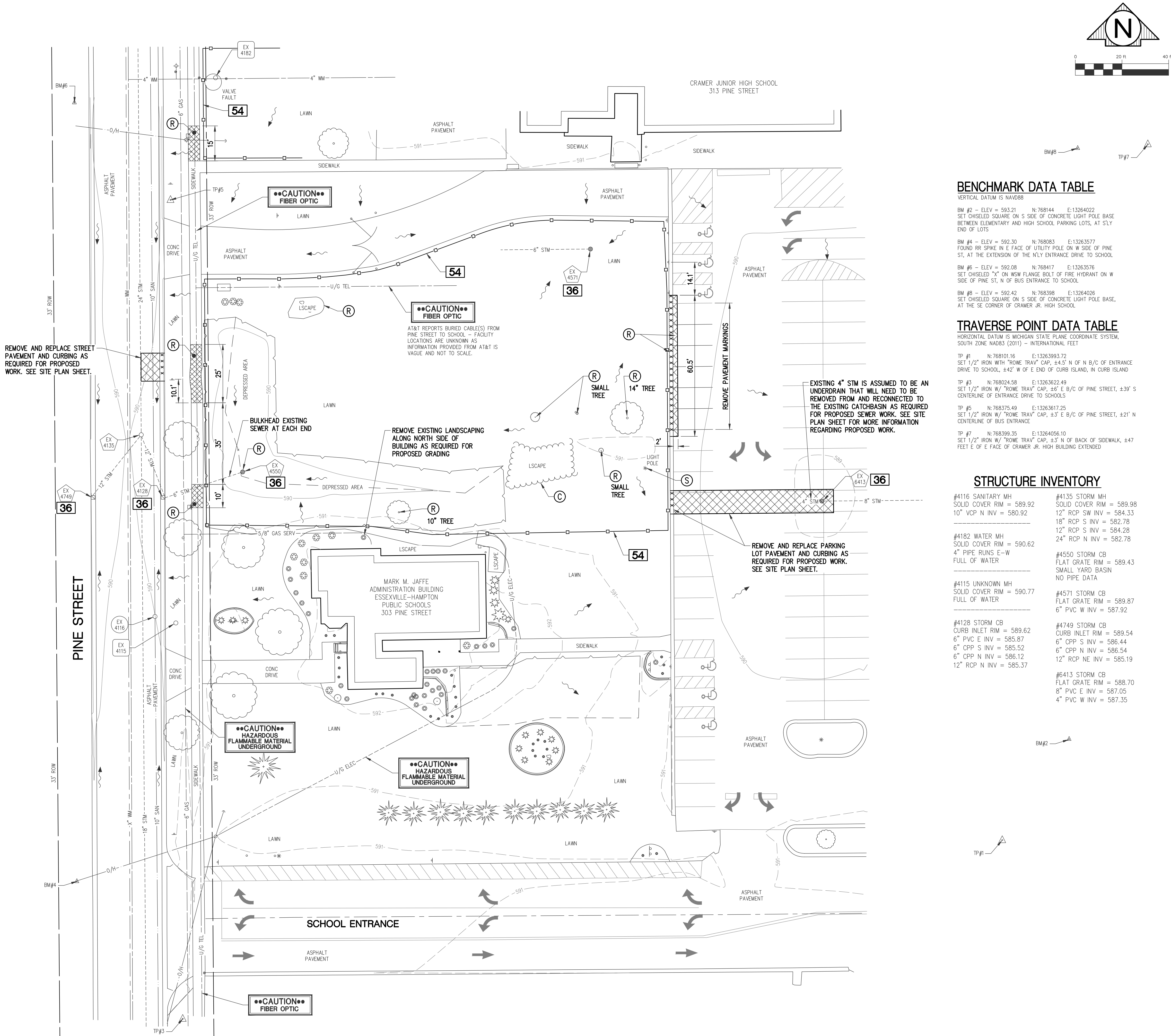
C3.0

| ROWE PROFESSIONAL SERVICES COMPANY            |                             |
|-----------------------------------------------|-----------------------------|
| PLAN SUBMITTALS AND CHANGES                   |                             |
| SITE PLAN APPROVAL - **NOT FOR CONSTRUCTION** |                             |
| DATE                                          | DESCRIPTION                 |
| 6-10-26                                       | ISSUED FOR SITE PLAN REVIEW |
|                                               |                             |
|                                               |                             |
|                                               |                             |



Know what's below.  
Call before you dig.

R:\Projects\2600121\Draw\Construction Drawings\02-2600121 NOTE DET.dwg 6/10/2026 2:36 PM



### BENCHMARK DATA TABLE

VERTICAL DATUM IS NAVD88

BM #2 - ELEV = 593.21 N:768144 E:13264022  
SET CHISELED SQUARE ON S SIDE OF CONCRETE LIGHT POLE BASE BETWEEN ELEMENTARY AND HIGH SCHOOL PARKING LOTS, AT SLY END OF LOTS

BM #4 - ELEV = 592.30 N:768083 E:13263577  
FOUND RR SPIKE IN E FACE OF UTILITY POLE ON W SIDE OF PINE ST, AT THE EXTENSION OF THE NLY ENTRANCE DRIVE TO SCHOOL.

BM #6 - ELEV = 592.08 N:768417 E:13263576  
SET CHISELED "X" ON WSW FLANGE BOLT OF FIRE HYDRANT ON W SIDE OF PINE ST, N OF BUS ENTRANCE TO SCHOOL.

BM #8 - ELEV = 592.42 N:768398 E:13264026  
SET CHISELED SQUARE ON S SIDE OF CONCRETE LIGHT POLE BASE, AT THE SE CORNER OF CRAMER JR. HIGH SCHOOL.

### TRAVERSE POINT DATA TABLE

HORIZONTAL DATUM IS MICHIGAN STATE PLANE COORDINATE SYSTEM, SOUTH ZONE NAD83 (2011) - INTERNATIONAL FEET

TP #1 N:768101.16 E:13263993.72  
SET 1/2" IRON W/ "ROWE TRAV" CAP, ±4.5' N OF N B/C OF ENTRANCE DRIVE TO SCHOOL, ±42' W OF E END OF CURB ISLAND, IN CURB ISLAND

TP #3 N:768024.58 E:13263622.49  
SET 1/2" IRON W/ "ROWE TRAV" CAP, ±6' E B/C OF PINE STREET, ±39' S CENTERLINE OF ENTRANCE DRIVE TO SCHOOLS

TP #5 N:768375.49 E:13263617.25  
SET 1/2" IRON W/ "ROWE TRAV" CAP, ±3' E B/C OF PINE STREET, ±21' N CENTERLINE OF BUS ENTRANCE

TP #7 N:768399.35 E:13264056.10  
SET 1/2" IRON W/ "ROWE TRAV" CAP, ±3' N OF BACK OF SIDEWALK, ±47 FEET E OF E FACE OF CRAMER JR. HIGH BUILDING EXTENDED

### STRUCTURE INVENTORY

#4116 SANITARY MH  
SOLID COVER RIM = 589.92  
10" VCP N INV = 580.92

#4182 WATER MH  
SOLID COVER RIM = 590.62  
4" PIPE RUNS E-W  
FULL OF WATER

#4115 UNKNOWN MH  
SOLID COVER RIM = 590.77  
FULL OF WATER

#4128 STORM CB  
CURB INLET RIM = 589.62  
6" PVC E INV = 585.87  
6" CPP S INV = 585.52  
6" CPP N INV = 586.12  
12" RCP N INV = 585.37

#4135 STORM MH  
SOLID COVER RIM = 589.98  
12" RCP SW INV = 584.33  
18" RCP S INV = 582.78  
12" RCP S INV = 584.28  
24" RCP N INV = 582.78

#4550 STORM CB  
FLAT GRATE RIM = 589.43  
SMALL YARD BASIN  
NO PIPE DATA

#4571 STORM CB  
FLAT GRATE RIM = 589.87  
6" PVC W INV = 587.92

#4749 STORM CB  
CURB INLET RIM = 589.54  
6" CPP S INV = 586.44  
6" CPP N INV = 586.54  
12" RCP NE INV = 585.19

#6413 STORM CB  
FLAT GRATE RIM = 588.70  
8" PVC E INV = 587.05  
4" PVC W INV = 587.35

### FLOODPLAIN

PROPERTY IS NOT WITHIN A REGULATED FLOODPLAIN PER FEMA FLOOD MAP 26017C0352F, EFFECTIVE ON 7/31/2024.

### WETLANDS

IN REVIEW OF THE MICHIGAN EGLE WETLANDS MAP VIEWER, REGULATED WETLANDS ARE NOT APPARENT WITHIN THE PROJECT SITE.

### TRAFFIC CONTROL NOTES

- ALL PROPOSED CONSTRUCTION WITHIN PINE STREET R.O.W. SHALL BE COORDINATED WITH AND PERMITTED BY THE CITY OF ESSEXVILLE. TWO-WAY TRAFFIC SHALL BE MAINTAINED AT ALL TIMES. ALL SIGNAGE, ETC. SHALL BE PER MDOT AND MMUTCD STANDARDS. MDOT MAINTAINING TRAFFIC TYPICALS 101-GEN-SPACING-CHARTS, 102-GEN-NOTES, 110-TR-NFW-2L AND 122-NFW-SHL-(R) SHALL BE UTILIZED AS APPROPRIATE TO MAINTAIN TRAFFIC. OWNER HAS OBTAINED PERMIT (PENDING).
- CONTRACTOR SHALL PROVIDE FLAGGERS TO ASSIST CONSTRUCTION TRAFFIC ENTERING OR EXITING SITE.

### REMOVAL NOTES

- NO WORK SHALL TAKE PLACE UNTIL ALL APPLICABLE PERMITS HAVE BEEN OBTAINED.
- ALL CONSTRUCTION TRAFFIC SHALL UTILIZE THE DESIGNATED CONSTRUCTION ENTRANCE.
- THE CONTRACTOR SHALL REMOVE TREES AND BRUSH IN THE DESIGNATED AREAS. REMOVALS SHALL INCLUDE TREES AND STUMPS IN THEIR ENTIRETY. NO MATERIALS MAY BE BURNED OR BURIED ON SITE.
- ALL PAVEMENT REMOVALS SHALL BE SAWCUT. THE CONTRACTOR SHALL COORDINATE ALL PAVEMENT REMOVALS WITH THE OWNER.
- ALL EXISTING CONCRETE CURBING, PAVEMENT AND SIDEWALKS NOT SPECIFICALLY DESIGNATED FOR REMOVAL OR REPLACEMENT SHALL REMAIN IN PLACE AND BE PROTECTED DURING CONSTRUCTION.
- MISCELLANEOUS ITEMS TO REMAIN SUCH AS SIGN POSTS, UTILITY RISERS, ETC. SHALL BE PROTECTED DURING CONSTRUCTION.
- THE EXISTING UTILITY INFORMATION SHOWN ON THE PLANS IS BASED ON THE BEST AVAILABLE RECORDS. THE CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFYING ALL UTILITY LOCATIONS AND NOTIFYING MISS DIG PRIOR TO PERFORMING ANY WORK. THE CONTRACTOR SHALL REPORT ANY DISCREPANCIES TO THE OWNER.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR RECONNECTING ANY SERVICES THAT ARE ENCOUNTERED DURING THE CONSTRUCTION OF THIS PROJECT. ANY SERVICES THAT ARE NOT SHOWN ON THE PLANS SHALL BE REPORTED TO THE OWNER.
- CONTRACTOR SHALL NOTIFY / SCHEDULE WITH OWNER IN ADVANCE FOR ALL ITEMS LABELED "AS DIRECTED" (IF ANY).
- ANY STOCK PILE OF MATERIALS SHALL BE WITHIN LIMITS OF WORK AND SESC MEASURES.

### SOIL EROSION CONTROL NOTES

- LIMITS OF EARTH CHANGE BOUNDARY = 0.5± ACRES - A SOIL EROSION CONTROL PERMIT MAY NOT BE REQUIRED - CONTRACTOR SHALL CONFIRM WITH SESC AGENT. A NPDES NOTICE OF COVERAGE IS NOT REQUIRED SINCE UNDER 5 ACRES.
- 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.
- ALL DISTURBED AREAS SHALL BE TOP SOILED, SEEDDED, AND MULCHED.
- CONSTRUCTION ENTRANCE SHALL BE THE EXISTING HMA DRIVE ONTO PINE STREET. EXISTING PAVEMENT AND STREET SHALL BE CLEANED AND SWEEPED AS REQUIRED TO KEEP DIRT FROM TRACKING.
- THE SOIL EROSION CONTROLS SHALL BE MAINTAINED WEEKLY AND AFTER EVERY STORM EVENT BY THE CONTRACTOR.
- SEE SESC KEY AND NOTE SHEET SHEET FOR MORE SESC INFORMATION.

SEAL OF ENGINEER

ARCHITECT  
**SEDGEWICK+ FERWEDA ARCHITECTS**

410 East Court Street Flint, MI 48503  
810-238-9647 | www.sfarch.us

Good clients+Good design+Great architecture



### REVISIONS

| Date    | Description       |
|---------|-------------------|
| 6.10.26 | .SITE PLAN REVIEW |

Project  
**Essexville STEM**  
305 Pine Street, Essexville, MI 48732

Drawing

EXISTING CONDITIONS AND REMOVAL SHEET



### PLAN SUBMITTALS AND CHANGES

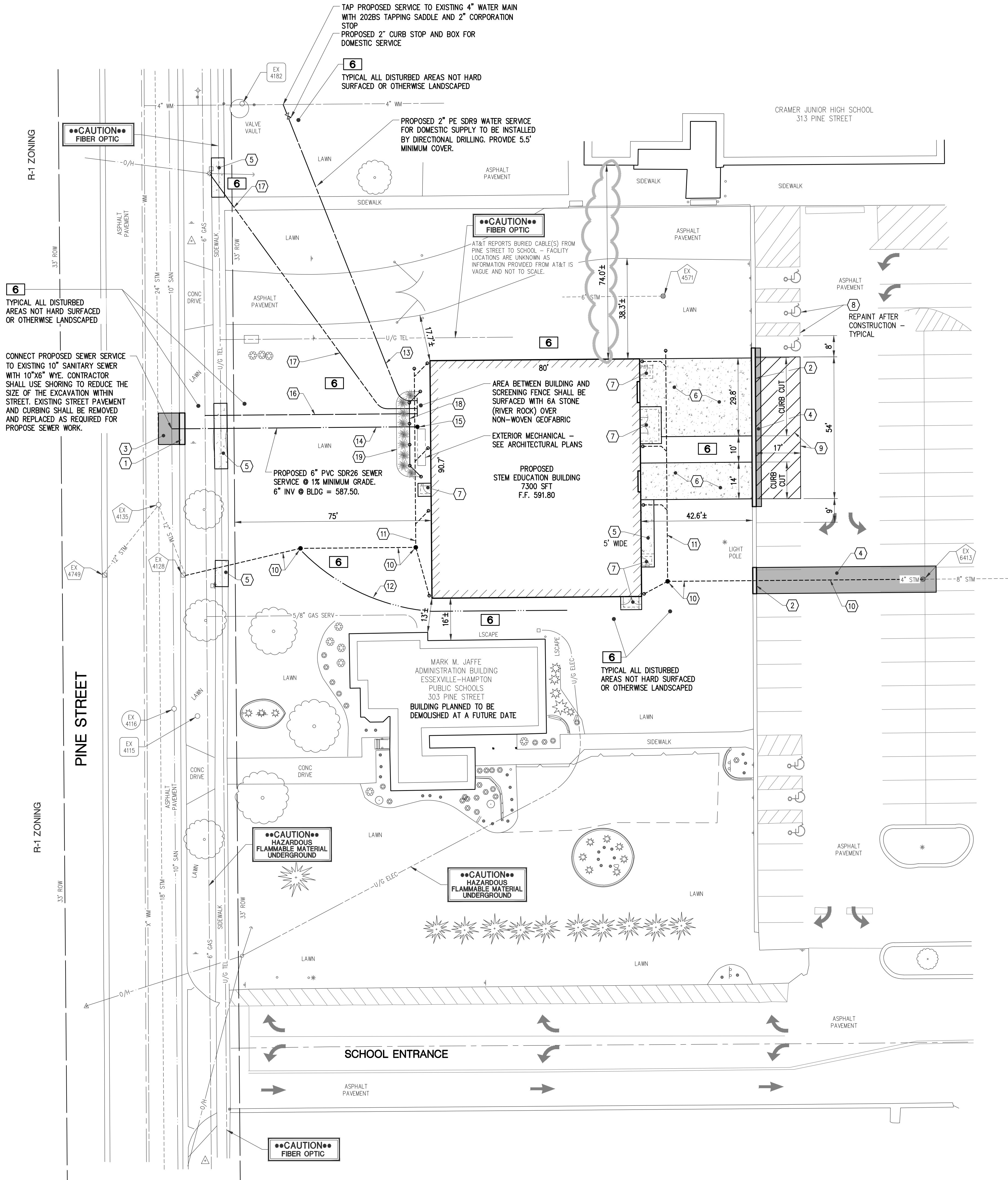
SITE PLAN APPROVAL - \*\*NOT FOR CONSTRUCTION\*\*

DATE DESCRIPTION

6-10-26 ISSUED FOR SITE PLAN REVIEW



Know what's below.  
Call before you dig.



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.

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

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 BUSED 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.

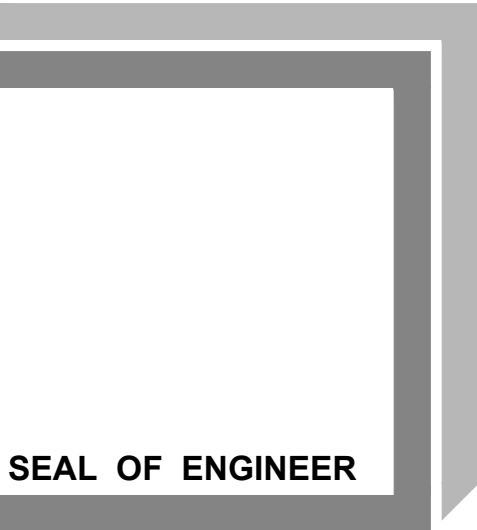
LANDSCAPE NOTES

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.



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 |
|                                               |                              |
|                                               |                              |
|                                               |                              |



ARCHITECT  
**SEDGEWICK+ FERWEDA ARCHITECTS**

410 East Court Street Flint, MI 48503  
810-238-9647 | www.sfarch.us

Good clients+Good design+Great architecture



| REVISIONS |             |
|-----------|-------------|
|           |             |
|           |             |
|           |             |
|           |             |
|           |             |
| Date      | Description |

Project  
**Essexville STEM**  
305 Pine Street, Essexville, MI 48732

Drawing  
**SITE PLAN SHEET**

DRAWN BY: MCC  
CHECKED BY: DAS

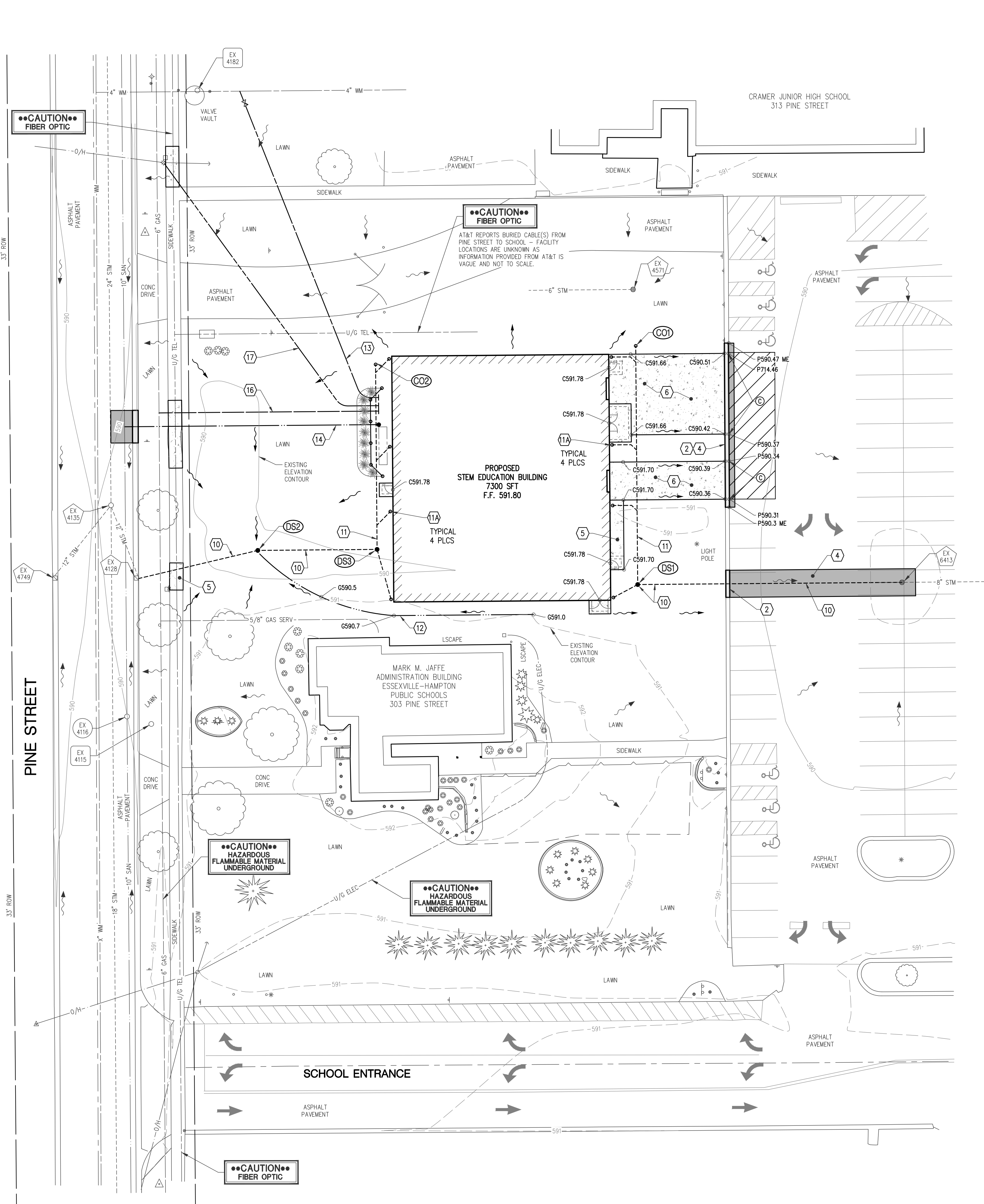
PROJECT NUMBER 25-028

DATE JUNE 2026

SCALE 1" = 20'

SHEET NUMBER

**C5.0**



PROPOSED STORM SEWER INFORMATION

- EXISTING DRAINAGE STRUCTURE  
RIM = 588.70  
EX 8" PVC E INV = 587.05  
EX 4" PVC W INV = 587.35 (REMOVE)  
PR 8" PVC W INV = 587.10  
CONNECT PROPOSED 8" SEWER TO EXISTING STRUCTURE AT LOCATION OF EXISTING 4" STORM (ASSUMED UNDERDRAIN) AND RECONNECT UNDERDRAIN TO CATCHBASIN OR SEWER.
- PROPOSED 3' DIA DR STRUCTURE WITH SOLID COVER  
N:768245.62 E:13263798.94  
RIM = 591.40  
6" INV N = 587.60  
6" INV SW = 587.60  
8" INV E = 587.60  
97' - 8" PVC @ 0.5% GRADE TO EX 6413
- PROPOSED 6" CLEANOUT  
N:768333.62 E:13263798.21  
RIM = 591.50  
6" INV S = 588.50
- EXISTING DRAINAGE STRUCTURE  
RIM = 589.62  
EX 6" PVC E INV = 585.87 (REMOVE)  
EX 6" CPP S INV = 585.52  
EX 6" CPP N INV = 586.12  
EX 12" RCP N INV = 585.37  
PR 8" PVC NE INV = 585.90  
CONNECT PROPOSED 8" SEWER TO EXISTING STRUCTURE AT LOCATION OF EXISTING 6" STORM BEING REMOVED.
- PROPOSED 2' DIA DR STRUCTURE WITH FLAT GRATE COVER  
N:768258.21 E:13263658.83  
RIM = 589.00  
8" INV E = 586.35  
8" INV SW = 586.35  
45' - 8" PVC @ 1.0% GRADE TO EX 4128
- PROPOSED 3' DIA DR STRUCTURE WITH SOLID COVER  
N:768258.58 E:13263702.83  
RIM = 591.40  
6" INV N = 587.70  
6" INV SE = 587.70  
8" INV W = 587.70  
44' - 8" PVC @ 3.1% GRADE TO DS2
- PROPOSED 6" CLEANOUT  
N:768326.78 E:13263702.26  
RIM = 591.50  
6" INV S = 588.40

PROPOSED ROOF WATER COLLECTION SEWER NOTES:  
6" PVC SCH40 OR SDR26 PIPE SHALL BE INSTALLED FROM ROOF DRAINAGE TO PROPOSED DRAINAGE STRUCTURES WITH A 1% MINIMUM GRADE AND 2.5 FEET MINIMUM OF COVER. SEE ARCHITECTURAL PLANS FOR DOWNSPOUT CONNECTION LOCATIONS.

NOTES

1. PROPOSED CURB & GUTTER FLOW LINE SHALL MATCH EXISTING FLOW LINE WHERE CONNECTING TO EXISTING CURB & GUTTER.
2. PROPOSED PAVEMENT, SIDEWALKS AND ETC. ELEVATIONS SHALL MATCH EXISTING GRADE WHERE ABUTTING EXISTING MATERIALS TO REMAIN.
3. SEE MISCELLANEOUS DETAIL SHEET FOR DETAILS OF PROPOSED WORK.
4. SEE EXISTING CONDITIONS AND REMOVAL SHEET FOR SURVEY CONTROL, BENCHMARK INFORMATION AND EXISTING STRUCTURE INVENTORIES.

SOIL EROSION CONTROL NOTES

1. ALL NEW CATCH BASINS HAVE SESC MEASURE #36 (FILTER SACK) INSTALLED UNTIL RESTORATION IS COMPLETE.
2. ALL DISTURBED AREAS SHALL BE TOP SOILED (3" MIN), SEEDED, FERTILIZED AND MULCHED TO ESTABLISH TURF.
3. SEE EXISTING CONDITIONS AND REMOVAL SHEET FOR ADDITIONAL SESC MEASURES.
4. SEE SESC KEY AND NOTE SHEET SHEET FOR MORE SESC INFORMATION.

PROPOSED IMPROVEMENT LEGEND

- 1 24" MDOT F4 CURB & GUTTER - STREET
- 2 18" MDOT F2 (TIP-OUT) CURB & GUTTER - PARKING LOT
- 3 HMA PAVEMENT REPAIR - SEE SITE PLAN
- 4 CONCRETE SIDEWALK, 4" THICK
- 5 CONCRETE DRIVEWAY, 6" THICK
- 10 STORM SEWER
- 11 ROOF WATER COLLECTION SEWER
- 11A DOWNSPOUT COLLECTION RISER \*\*
- 12 DRAINAGE SWALE
- 13 2" DOMESTIC SERVICE LEAD \*\*
- 14 6" PVC SANITARY SERVICE LEAD \*\*
- 16 UNDERGROUND GAS SERVICE BY OTHERS \*\*
- 17 UNDERGROUND ELECTRIC SERVICE (DIRECTIONALLY DRILLED) BY OTHERS \*\*

\* SEE ARCHITECTURAL PLANS

\*\* SEE ARCHITECTURAL PLANS FOR LOCATION AT BUILDING

GRADING LEGEND

- C999.99 PROPOSED TOP OF CONCRETE SIDEWALK OR DRIVEWAY ELEVATION
- P999.99 PROPOSED TOP OF HMA PAVEMENT ELEVATION
- G999.99 PROPOSED GROUND ELEVATION
- 999.99 ME MATCH EXISTING ELEVATION
- ~ PROPOSED PAVEMENT DRAINAGE
- DS2 PROPOSED DRAINAGE STRUCTURE
- ⊙ CURB CUT
- RIM = ELEVATION AT CURB FLOW LINE
- SLCPP = SMOOTH LINED, CORRUGATED PLASTIC PIPE (ADS HP STORM OR EQUAL)

SEAL OF ENGINEER

ARCHITECT  
**SEDGEWICK+ FERWEDA ARCHITECTS**

410 East Court Street Flint, MI 48503  
810-238-9647 | www.sfarch.us

Good clients + Good design + Great architecture



REVISIONS

| Date    | Description       |
|---------|-------------------|
| 6.10.26 | .SITE PLAN REVIEW |
|         |                   |
|         |                   |
|         |                   |
|         |                   |
|         |                   |

Project  
**Essexville STEM**  
305 Pine Street, Essexville, MI 48732

Drawing  
**PROPOSED STORM SEWER AND  
GRADING SHEET**



PLAN SUBMITTALS AND CHANGES

SITE PLAN APPROVAL - \*\*NOT FOR CONSTRUCTION\*\*

DATE DESCRIPTION

6-10-26 ISSUED FOR SITE PLAN REVIEW



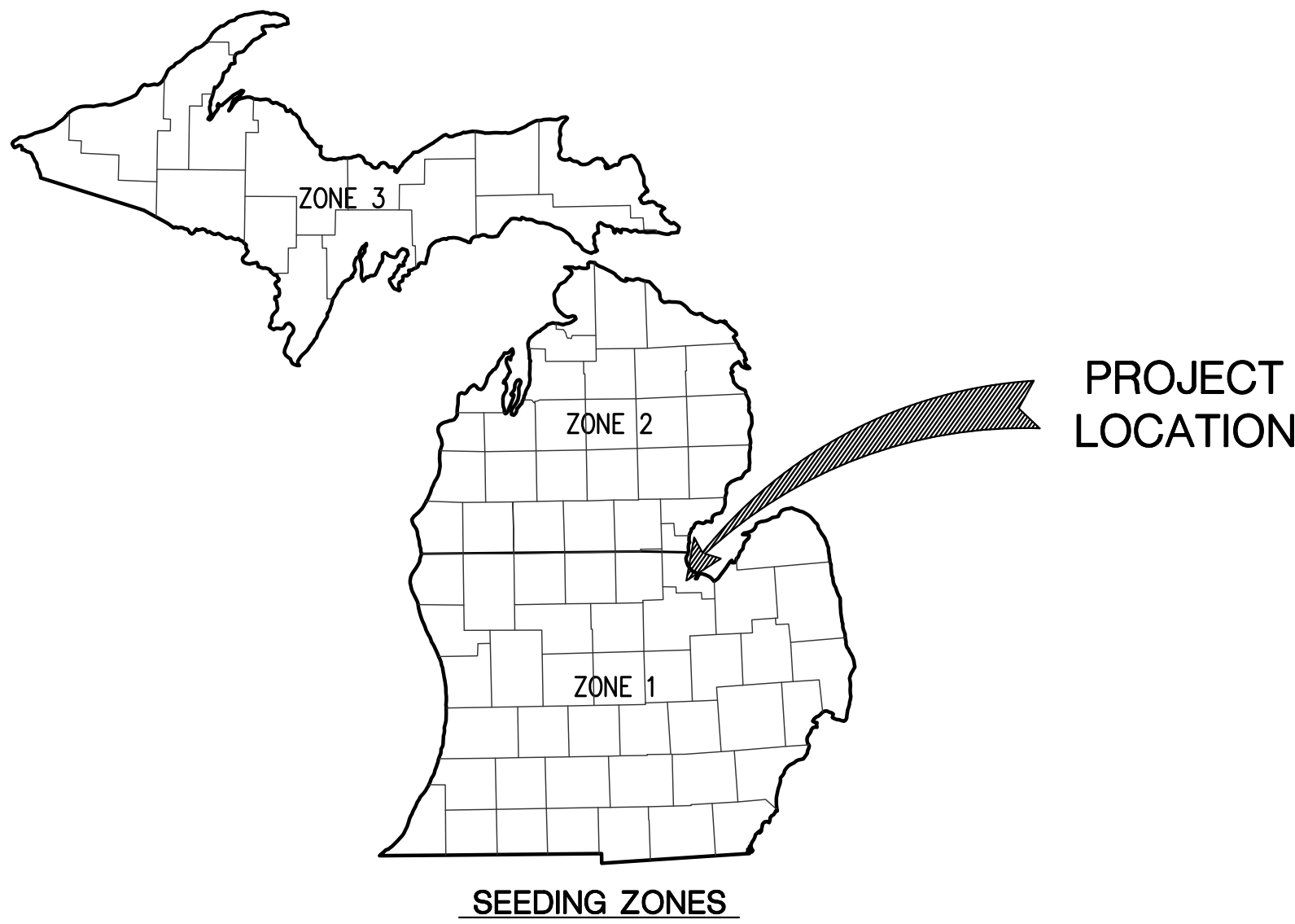
Know what's below.  
Call before you dig.

MICHIGAN UNIFIED KEYING SYSTEM
SOIL EROSION SEDIMENTATION CONTROL MEASURES

\* INDICATES APPLICABILITY OF A SPECIFIC CONTROL MEASURE TO ONE OR MORE OF THE SEVEN PROBLEM AREAS

Table with 8 columns: KEY, DETAIL, CHARACTERISTICS, A, B, C, D, E, F, G. Rows 1-27 detailing various erosion control measures like strippling, seeding, mulching, etc.

Table with 8 columns: KEY, DETAIL, CHARACTERISTICS, A, B, C, D, E, F, G. Rows 28-54 detailing various erosion control measures like drop spillway, pipe drop, pipe spillway, etc.

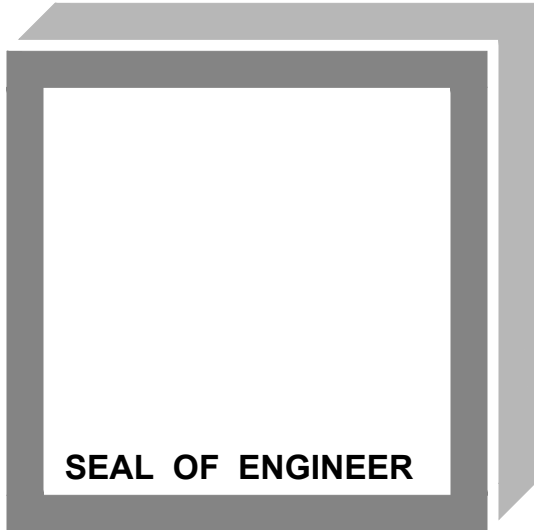


TEMPORARY SEEDING GUIDE
ZONE 1
Table with columns: TYPE OF SEED, APR, MAY, JUN, JUL, AUG, SEP, OCT. Rows for Spring Oats/Barley, Domestic Ryegrass, Sudangrass, Rye or Perennial Rye, Wheat.

PERMANENT SEEDING GUIDE
Table with columns: IRRIGATED AND/OR MULCH, APR, MAY, JUN, JUL, AUG, SEP, OCT. Rows for Zone 1, Zone 2, Zone 3.

SOIL EROSION CONTROL NOTE

ALL EROSION AND SEDIMENT CONTROL WORK SHALL CONFORM TO THE STANDARDS AND SPECIFICATIONS OF THE COUNTY SOIL EROSION DEPARTMENT.
DAILY INSPECTIONS SHALL BE MADE BY THE CONTRACTOR FOR EFFECTIVENESS OF THE EROSION AND SEDIMENT CONTROL MEASURES, AND ANY NECESSARY REPAIRS SHALL BE MADE WITHOUT DELAY.
EROSION AND SEDIMENTATION FROM WORK ON THIS SITE SHALL BE CONTAINED ON THE SITE AND NOT BE ALLOWED TO COLLECT ON ANY OFF SITE AREAS OR IN WATERWAYS.
STAGING OF THE WORK WILL BE DONE BY THE CONTRACTOR AS DIRECTED IN THE PLANS AND/OR AS REQUIRED TO INSURE PROGRESSIVE STABILIZATION OF THE DISTURBED EARTH.
SOIL EROSION CONTROL MEASURES WILL BE ESTABLISHED PRIOR TO CONSTRUCTION BY THE CONTRACTOR.
ALL MUD/DIRT TRACKED ONTO EXISTING PUBLIC ROADS FROM THIS SITE DUE TO THE CONSTRUCTION, SHALL BE PROMPTLY REMOVED BY THE CONTRACTOR/BUILDER.
ALL SLOPES 3:1 OR STEEPER SHALL BE STABILIZED WITH PEGGED SOD OR SEED AND MULCH SECURED WITH EROSION MATTING FOLLOWING MASS GRADING OPERATIONS.
VEGETATION MUST BE ACCEPTABLY ESTABLISHED AND ALL TEMPORARY SOIL EROSION CONTROL MEASURES MUST BE REMOVED PRIOR TO ACCEPTANCE AND FINAL RELEASE OF THE CONSTRUCTION GUARANTEE BY THE COUNTY SOIL EROSION SEDIMENTATION CONTROL AGENT.



ARCHITECT
SEDGEWICK+ FERWEDA ARCHITECTS
410 East Court Street Flint, MI 48503
810-238-9647 | www.sfarch.us
Good clients + Good design + Great architecture



REVISIONS
Table with 2 columns: Date, Description. Row 1: 6.10.26, SITE PLAN REVIEW Description.

Project
Essexville STEM
305 Pine Street, Essexville, MI 48732
Drawing
SESC KEY AND NOTE SHEET

SOIL EROSION/SEDIMENTATION CONTROL OPERATION TIME SCHEDULE
Table with columns: CONSTRUCTION SEQUENCE, JAN, FEB, MAR, APR, MAY, JUN, JUL, AUG. Rows for Strip & Stockpile, Temp. Control Measures, Storm Facilities, Temp. Construction Roads, Site Construction, Perm. Control Measures, Finish Grading.

CONTRACTOR SHALL PROVIDE CONSTRUCTION SEQUENCE AND SCHEDULE TO SOIL EROSION CONTROL AGENT WHEN OBTAINING SOIL EROSION CONTROL PERMIT.

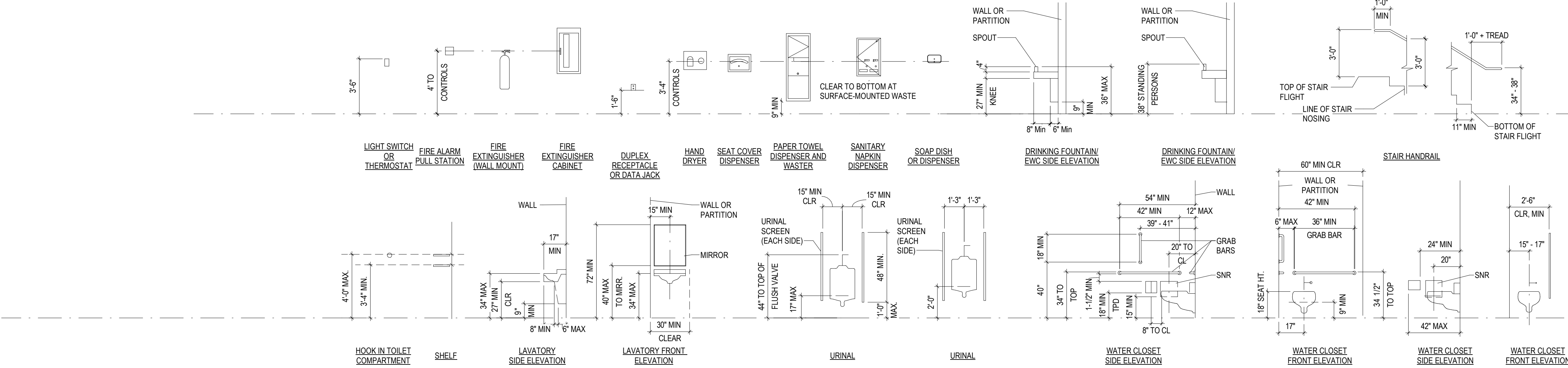


Know what's below.
Call before you dig.

ROWE PROFESSIONAL SERVICES COMPANY
PLAN SUBMITTALS AND CHANGES
SITE PLAN APPROVAL - \*\*NOT FOR CONSTRUCTION\*\*
Table with columns: DATE, DESCRIPTION. Row 1: 6-10-26, ISSUED FOR SITE PLAN REVIEW.

DRAWN BY: MCC
CHECKED BY: DAS
PROJECT NUMBER 25-028
DATE JUNE 2026
SCALE N.T.S.
SHEET NUMBER C7.0

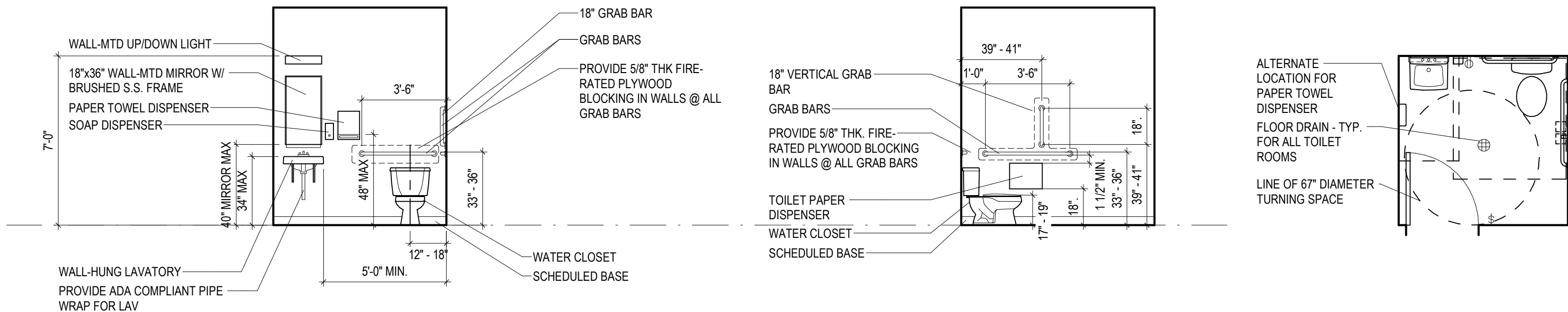
GENERAL LAYOUT INFORMATION AND TYPICAL MOUNTING HEIGHTS



ABBREVIATIONS

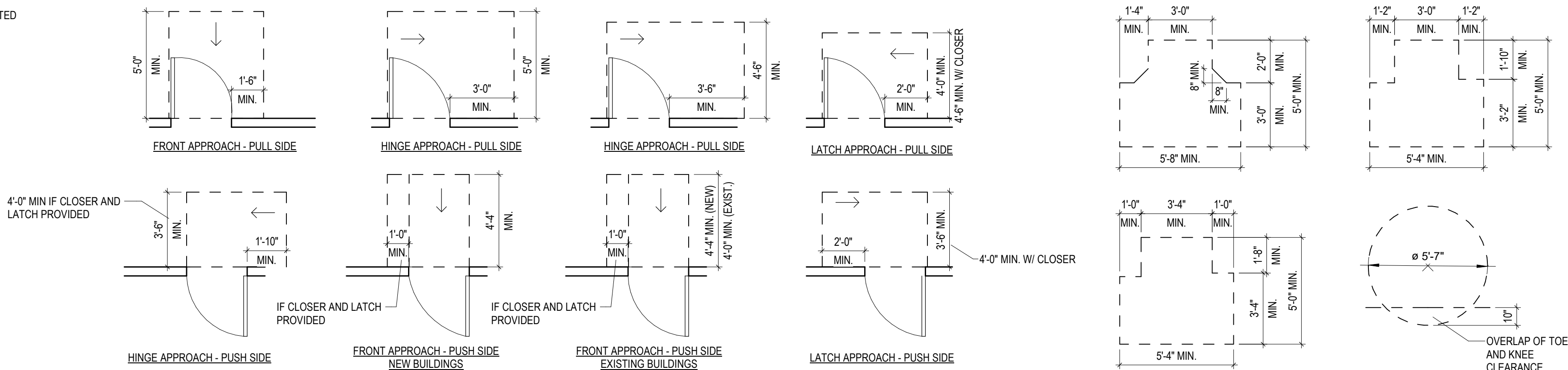
|          |                                  |     |                                 |
|----------|----------------------------------|-----|---------------------------------|
| A        | ALUM - ALUMINUM                  | M   | MB - MOP BASIN                  |
| B        | B - BOILER                       | MC  | MC - MECHANICAL CONTRACTOR      |
| B.F.     | B.F. - BARRIER FREE              | MS  | MS - MOP SINK                   |
| BPW      | BPW - BED PAN WASHER             | O   | O.C. - ON CENTER                |
| C        | CMU - CONCRETE MASONRY UNIT      | P   | PH - PHYSICALLY HANDICAPPED     |
| CP       | CP - CIRCULATING PUMPS           | PRV | PRV - PRESSURE REGULATING VALVE |
| CT       | CT - CERAMIC TILE                | R   | RAG - RETURN AIR GRILLE         |
| CU       | CU - CONDENSING UNIT             | RH  | RH - RADIANT HEATER             |
| D        | DWV - DRAINAGE WASTE VENT        | RTU | RTU - ROOF TOP UNIT             |
| E        | EAG - EXHAUST AIR GRILLE         | RZP | RZP - REDUCED ZONE BACKFLOW     |
| EC       | EC - ELECTRICAL CONTRACTOR       | S   | SA - SUPPLY AIR                 |
| ERV      | ERV - ENERGY RECOVERY VENTILATOR | SAD | SAD - SUPPLY AIR DIFFUSER       |
| EW       | EW - ELECTRICAL WATER HEATER     | SAG | SAG - SUPPLY AIR GRILLE         |
| EX/EXIST | EX/EXIST - EXISTING              | SK  | SK - SINK                       |
| EXP      | EXP - EXPOSED                    | T   | TAG - TRANSFER AIR GRILLE       |
| F        | F - FURNACE                      | TC  | TC - TEMPERATURE CONTROL PANEL  |
| F.U.     | F.U. - FIXTURE UNITS DRAINAGE    | TH  | TH - THERMOMETER                |
| FP       | FP - FREEZE PROOF                | TYP | TYP - TYPICAL                   |
| FS       | FS - FLOOR SINK                  | U   | U.N.O. - UNLESS OTHERWISE NOTED |
| FD       | FD - FLOOR DRAIN                 | V   | V.I.F. - VERIFY IN FIELD        |
| FTFD     | FTFD - FUNNEL TYPE FLOOR DRAIN   | W   | WB - WATER BOX                  |
| G        | GC - GENERAL CONTRACTOR          | WC  | WC - WATER CLOSET               |
| GLV      | GLV - GLOBAL VALVE               | WD  | WD - WOOD                       |
| GYP.BD   | GYP.BD - GYPSUM BOARD            | WCO | WCO - WALL CLEAN OUT            |
| H        | HC - HOSE CABINET                | WH  | WH - WATER HEATER               |
| H.M.     | H.M. - HOLLOW METAL              |     |                                 |
| L        | L - LAVATORY                     |     |                                 |
| LT       | LT - LAUNDRY TUB                 |     |                                 |

NOTE:  
INSTALL WALL PROTECTION PANELS  
TO TOP OF INTEGRAL BASE -  
PROVIDE CONT. CLEAR SEALANT @  
TOP EDGE (TYP.)



WHEELCHAIR MANEUVERING SPACES

ANSI 117.1, 2027



DRAWING SYMBOLS

NOTE: DRAWING TITLE MAY NOT APPEAR ON LARGE SCALE DETAIL DRAWINGS

DRAWING/DETAIL TITLE

DRAWING NUMBER

DRAWING TITLE

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

SHEET WHERE DRAWING/DETAIL IS REFERENCED

DETAIL CUT SYMBOL

DETAIL NUMBER

SHEET WHERE DETAIL IS DRAWN

BUILDING SECTION CUT SYMBOL

SECTION NUMBER

SHEET WHERE SECTION IS DRAWN

NORTH ARROW

ASSUMED NORTH IF NOT TRUE NORTH, OR PLAN NORTH WHERE TRUE NORTH IS INDICATED BY SMALL ARROW

ENLARGED PLAN/DETAIL

SEE NOTES FOR DETAIL CUT

EXTERIOR ELEVATION LOCATION SYMBOL

ELEVATION NUMBER

SHEET WHERE ELEVATION IS DRAWN

INTERIOR ELEVATION LOCATION SYMBOL

INTERIOR ELEVATION NUMBER

SHEET WHERE INTERIOR ELEVATION IS DRAWN

MATCHLINE SYMBOL

ROOM NAME AND NUMBER

ROOM NAME

ROOM IDENTIFICATION NUMBER

UNIT OF BUILDING WHERE ROOM IS FOUND (IF APPLICABLE)

FLOOR LEVEL IDENTIFICATION EXAMPLE

BASEMENT

LEVEL ONE

LEVEL TWO

LEVEL THREE

ETC.

UNIT IDENTIFICATION EXAMPLE

AB01

A100

A200

A300

ETC.

BASEMENT

UNIT "A" LEVEL ONE

UNIT "A" LEVEL TWO

UNIT "A" LEVEL THREE

ETC.

DOOR NUMBER SYMBOL

ROOM NUMBER WHERE DOOR IS FOUND

DOOR IDENTIFICATION LETTER

DOOR INDICATION

DOOR SWING INDICATION - NEW DOOR

DOOR SWING INDICATION - EXISTING DOOR TO REMAIN

DOOR SWING INDICATION - EXISTING DOOR TO BE REMOVED

WINDOW INDICATION

WINDOW TYPE DESIGNATION

WALL INDICATION

WALL INDICATION - NEW WALL (SEE LEGEND FOR WALL CONSTRUCTION)

WALL INDICATION - EXISTING WALL TO REMAIN

WALL INDICATION - EXISTING WALL TO BE REMOVED

NEW COLUMN LINE

LETTER OR NUMBER INDICATES NEW COLUMN LINE(S)

EXISTING COLUMN LINE

UNDERLINED LETTER OR NUMBER INDICATES EXISTING COLUMN LINE(S)

DIMENSION LINE

DO NOT SCALE DRAWINGS. USE FIGURED DIMENSIONS ONLY. SEE GENERAL NOTES ON A0.0.

TEXT LEADER

INFORMATION TEXT

STAIR RUN SYMBOL

STAIR DIRECTION FROM FLOOR LEVEL OF PLAN (UP OR DOWN)

NUMBER OF RISERS IN STAIR RUN

SEPARATION SYMBOL

SEPARATION LINE OF NEW CONSTRUCTION FROM EXISTING, OR SEPARATION OF DIFFERENT MATERIALS FROM EACH OTHER

WALL TYPE DESIGNATION

LETTER OR NUMBER INDICATES NEW WALL TYPE(S)

KEYNOTE CALLOUT

LETTER OR NUMBER INDICATES DEMO NOTE(S)

SEAL OF ARCHITECT

SEDGEWICK + FERWEDA ARCHITECTS

410 East Court Street Flint, MI 48503  
810-238-9647 | www.sfarch.us

Good clients + Good design + Great architecture

ARCHITECT



REVISIONS

| Date | Description |
|------|-------------|
|      |             |
|      |             |
|      |             |
|      |             |
|      |             |

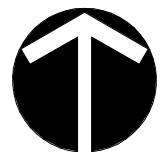
Project  
ESSEXVILLE-HAMPTON PUBLIC  
305 Pine Street, Essexville, MI 48732N  
AND DESIGN

Drawing  
General Notes

DRAWN BY: LJK  
CHECKED BY: JSF

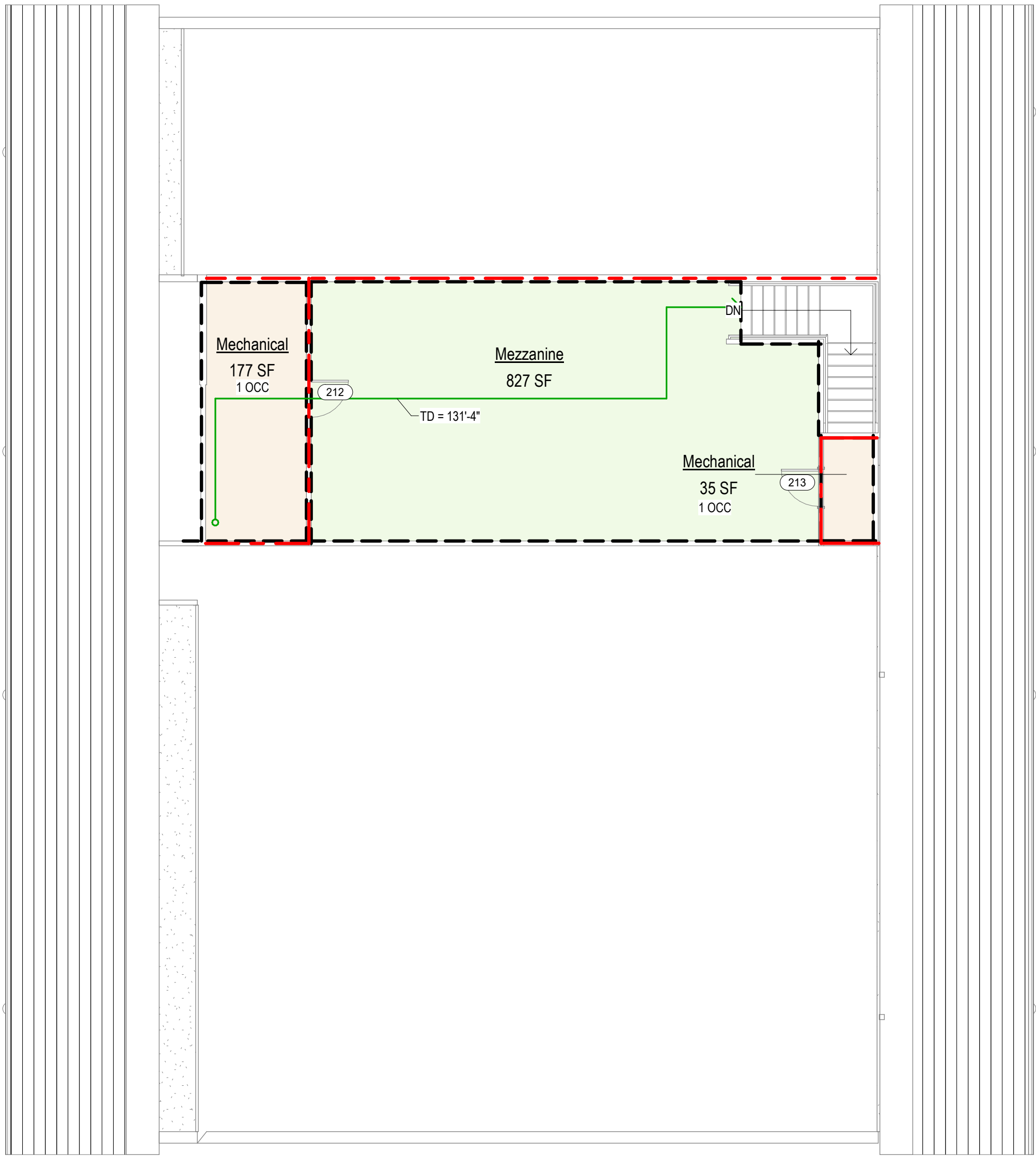
PROJECT NUMBER 25-028  
DATE JULY 29, 2026  
SCALE As indicated  
SHEET NUMBER

A0.1



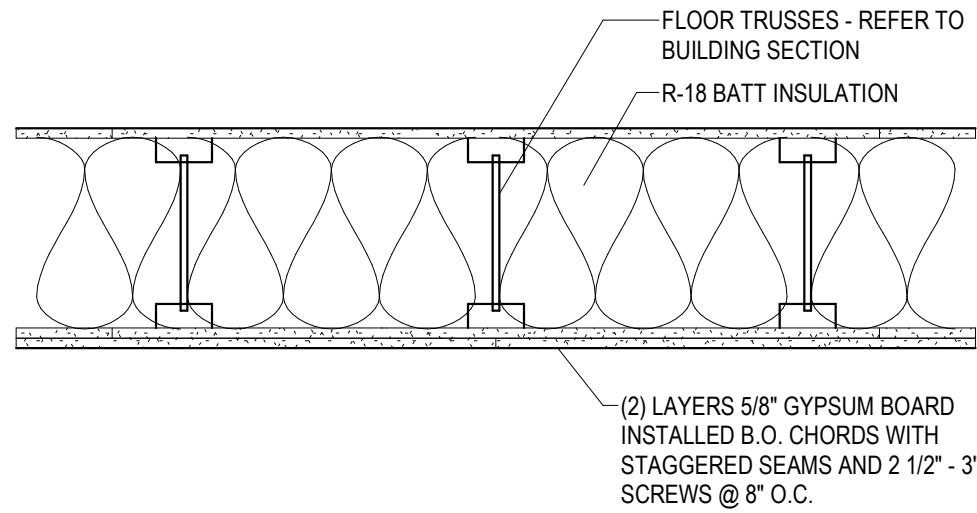
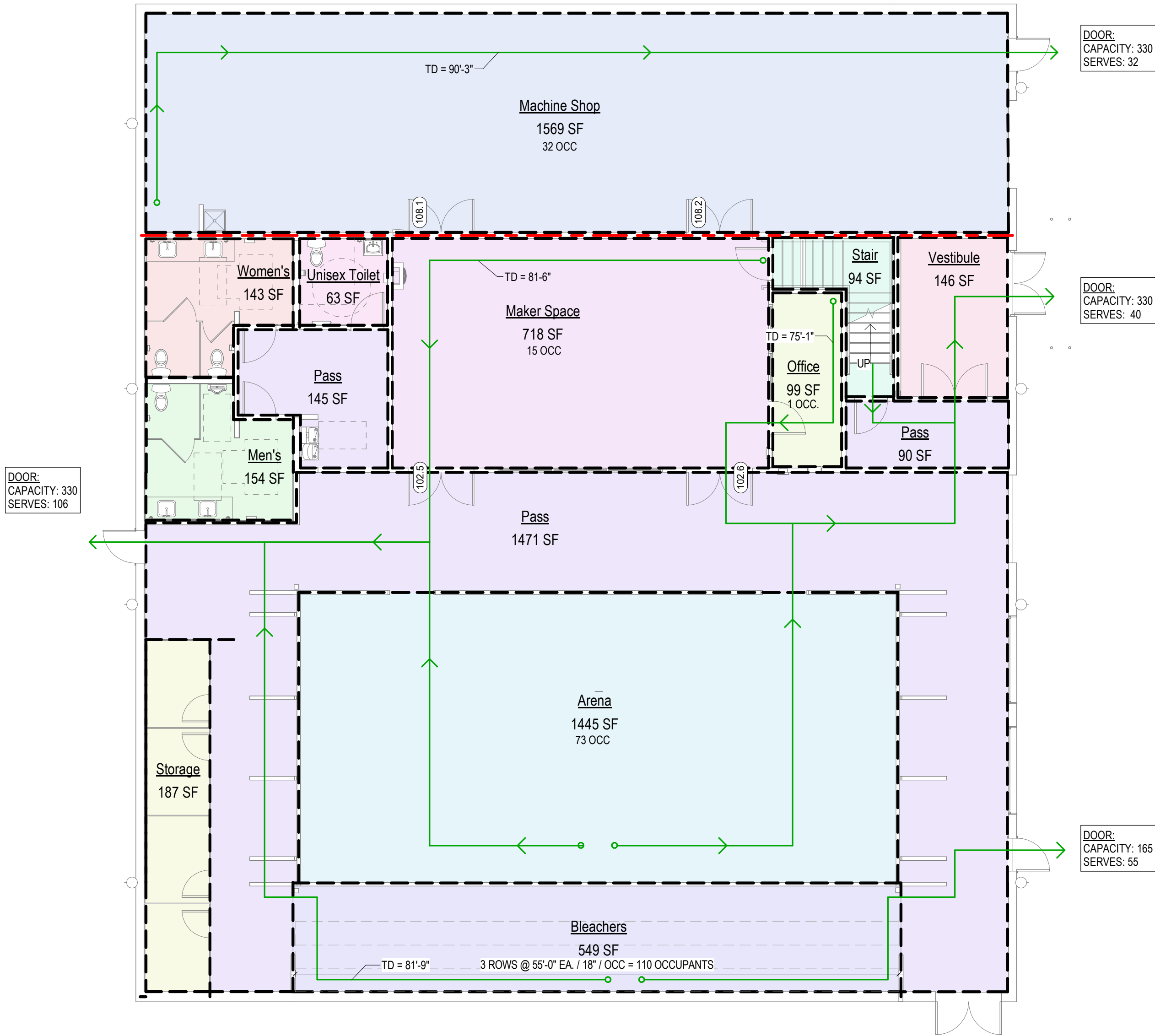
## 2 Second Floor Area Plan

A0.2 1/8" = 1'-0"



## 1 First Floor Area Plan

A0.2 1/8" = 1'-0"



## 3 Floor Assmebly

A0.2 1" = 1'-0"

- BUILDING AREA**
- Arena
  - Bleachers
  - Machine Shop
  - Maker Space
  - Mechanical
  - Men's
  - Mezzanine
  - Office
  - Pass
  - Stair
  - Storage
  - Unisex Toilet
  - Vestibule
  - Women's

### LIFE SAFETY PLAN LEGEND

- AREA BOUNDARY
- 1-HR FIRE BARRIER
- 2-HR FIRE BARRIER AT FLOOR / CEILING ASSEMBLY
- DOOR: CAPACITY: 226 SERVES: 9
- MEANS OF EGRESS
- OCCUPANCY CAPACITY OF EGRESS
- OCCUPANCY UTILIZATION OF EGRESS
- WORKSHOP: CAPACITY: 315 SF SERVES: 9
- OCCUPANCY USE
- AREA OF SPACE
- OCCUPANTS OF SPACE (TABLE 1004.1.2 MBC)

### AREA SCHEDULE

| NO.             | NAME          | NET AREA | OCCUPANCY USE            | OCCUPANCY FACTOR   | OCCUPANCY |
|-----------------|---------------|----------|--------------------------|--------------------|-----------|
| 2               | Arena         | 1445 SF  | EDUCATIONAL - CLASSROOM  | 20                 | 73        |
| 3               | Bleachers     | 549 SF   | ASSEMBLY - FIXED         | 1 OCC. / 18" BENCH | 110       |
| 4               | Maker Space   | 718 SF   | EDUCATIONAL - VOCATIONAL | 50                 | 15        |
| 5               | Machine Shop  | 1569 SF  | EDUCATIONAL - VOCATIONAL | 50                 | 32        |
| 6               | Women's       | 143 SF   | ACCESSORY                | 0                  |           |
| 7               | Vestibule     | 146 SF   | CIRCULATION              | 0                  |           |
| 8               | Mechanical    | 177 SF   | UTILITY                  | 300                | 1         |
| 9               | Mezzanine     | 827 SF   | ACCESSORY                | 0                  |           |
| 10              | Office        | 99 SF    | BUSINESS                 | 150                | 1         |
| 11              | Storage       | 187 SF   | ACCESSORY                | 0                  |           |
| 12              | Men's         | 154 SF   | ACCESSORY                | 0                  |           |
| 13              | Unisex Toilet | 63 SF    | ACCESSORY                | 0                  |           |
| 14              | Pass          | 145 SF   | ACCESSORY                | 0                  |           |
| 15              | Stair         | 94 SF    | ACCESSORY                | 0                  |           |
| 16              | Pass          | 94 SF    | ACCESSORY                | 0                  |           |
| 17              | Pass          | 1471 SF  | ACCESSORY                | 0                  |           |
| 18              | Mechanical    | 35 SF    | UTILITY                  | 300                | 1         |
| Grand total: 17 |               | 7911 SF  |                          |                    | 233       |

ARCHITECT

**SEDGEWICK + FERWEDA ARCHITECTS**

410 East Court Street Flint, MI 48503  
810-238-9647 | www.sfarch.us

Good clients + Good design + Great architecture



### REVISIONS

| Date | Description |
|------|-------------|
|      |             |
|      |             |
|      |             |
|      |             |
|      |             |
|      |             |
|      |             |
|      |             |
|      |             |

Project

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

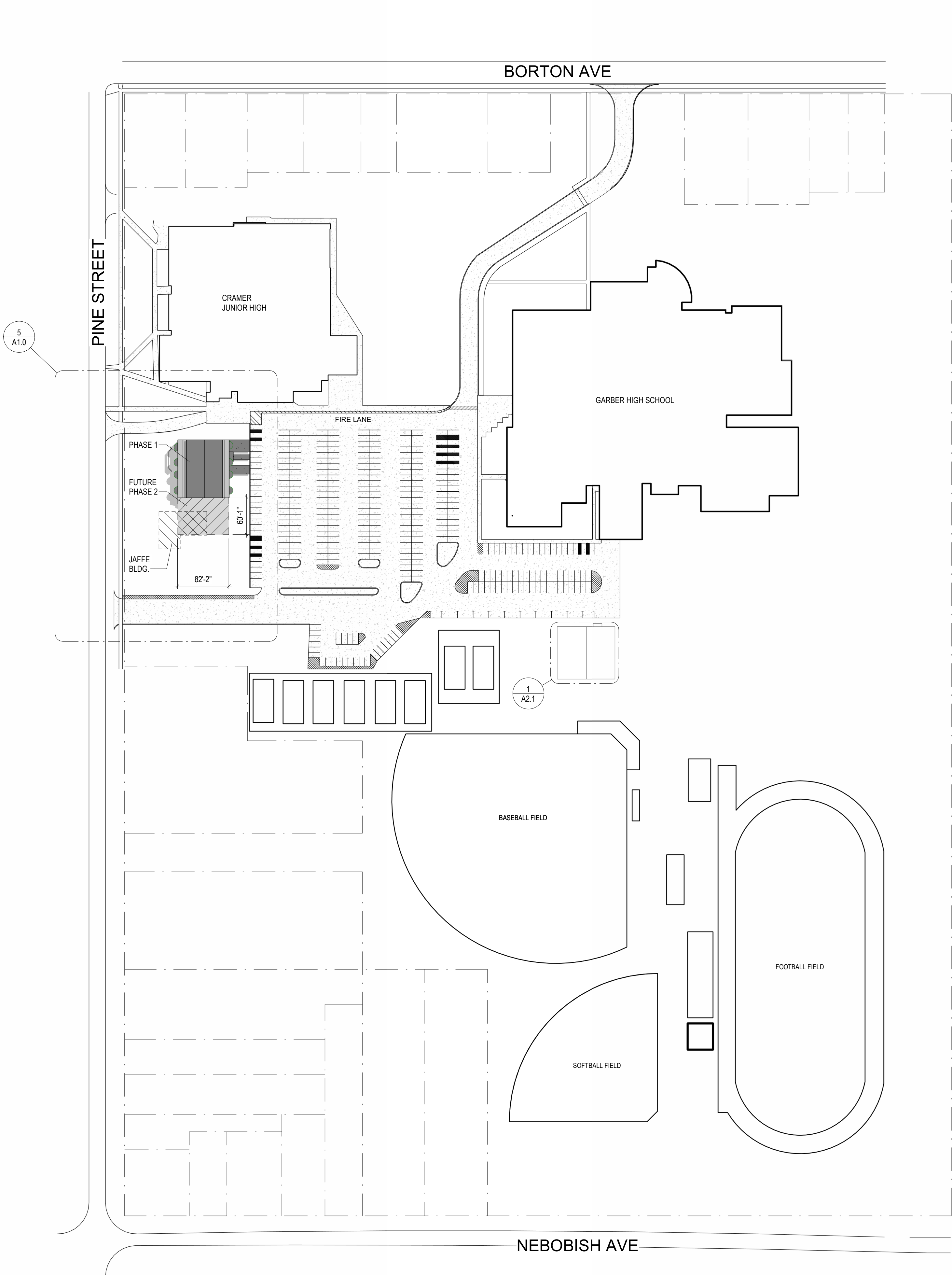
Drawing

**Life Safety Plans**

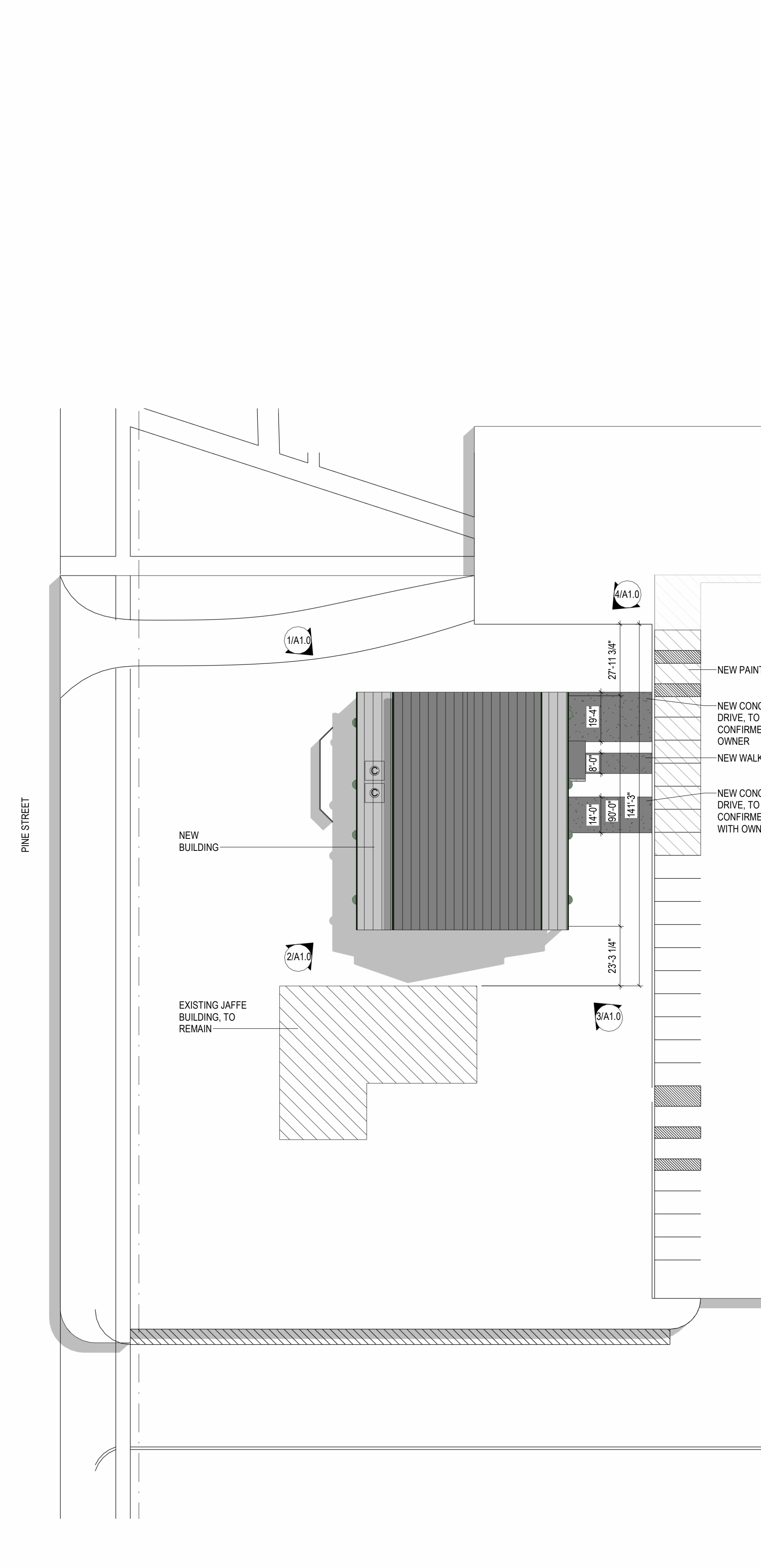
DRAWN BY: Author  
CHECKED BY: JSF

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

**A0.2**



**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



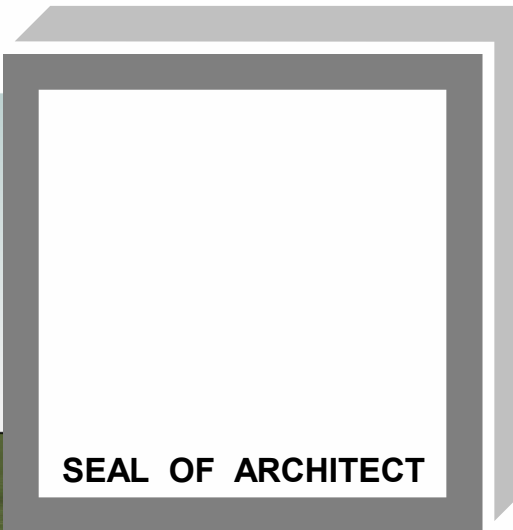
**3 Exterior - South East**  
A1.0



**2 Exterior - South West**  
A1.0



**1 Exterior - North West**  
A1.0



**ARCHITECT**  
**SEDGEWICK + FERWEDA ARCHITECTS**  
410 East Court Street Flint, MI 48503  
810-238-9647 | www.sfarch.us  
Good clients + Good design + Great architecture



| REVISIONS |             |
|-----------|-------------|
|           |             |
|           |             |
|           |             |
|           |             |
|           |             |
| Date      | Description |

Project  
**ESSEXVILLE-HAMPTON PUBLIC**  
**305 Pine Street, Essexville, MI 48732N**  
**AND DESIGN**  
Drawing  
**Architectural Site Plan**

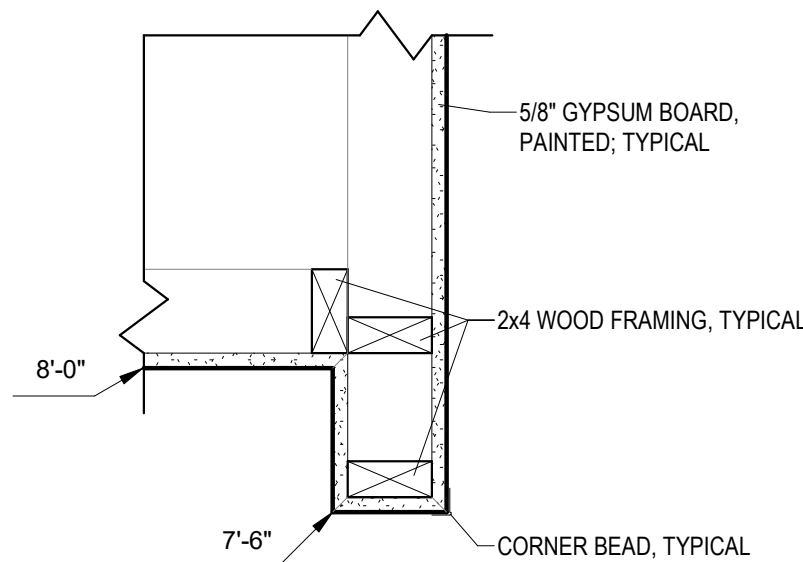
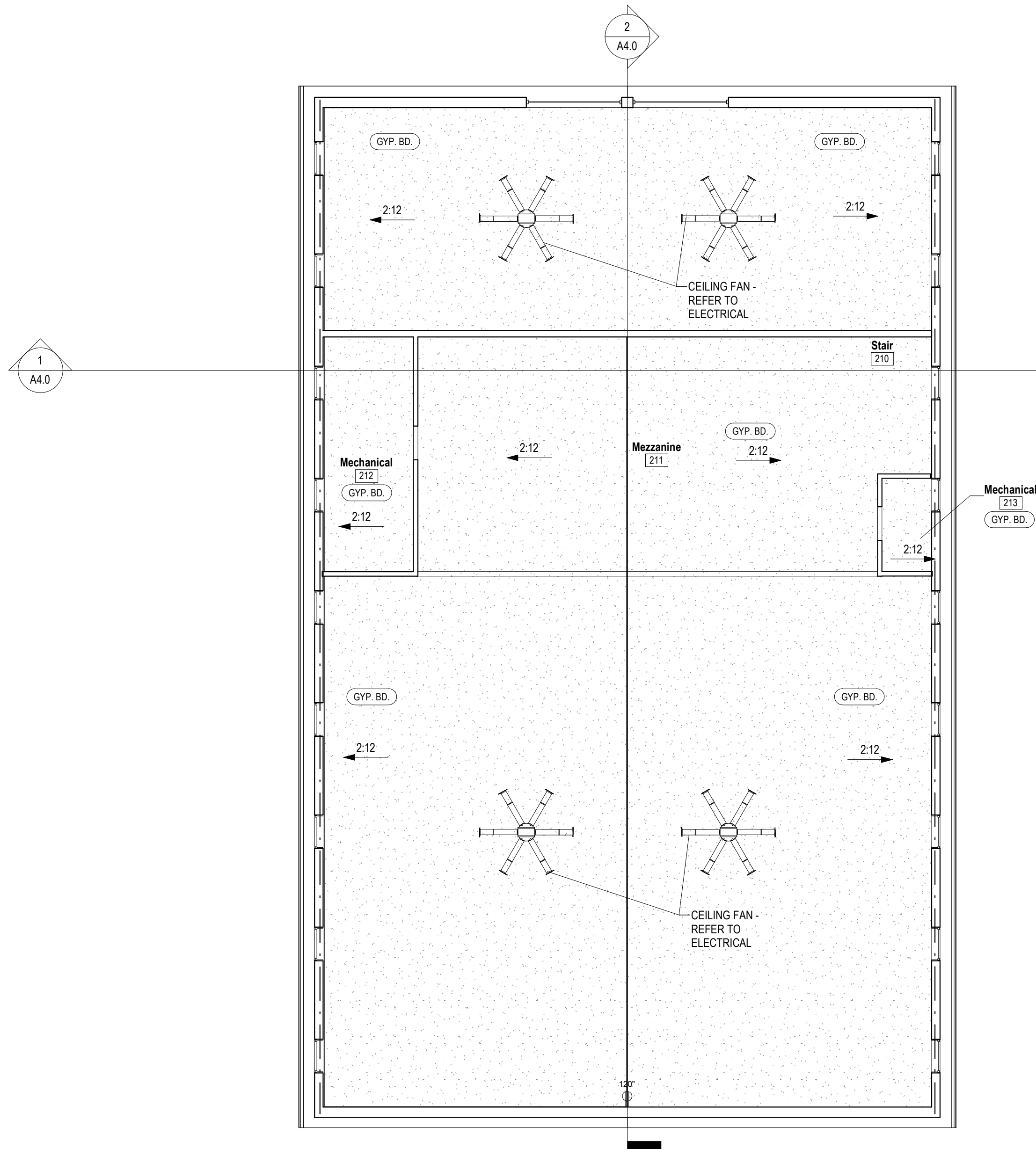
DRAWN BY: Author  
CHECKED BY: Checker  
PROJECT NUMBER **25-028**  
DATE **JULY 29, 2026**  
SCALE **As indicated**  
SHEET NUMBER  
**A1.0**





Second Floor Reflected Ceiling  
2 Plan

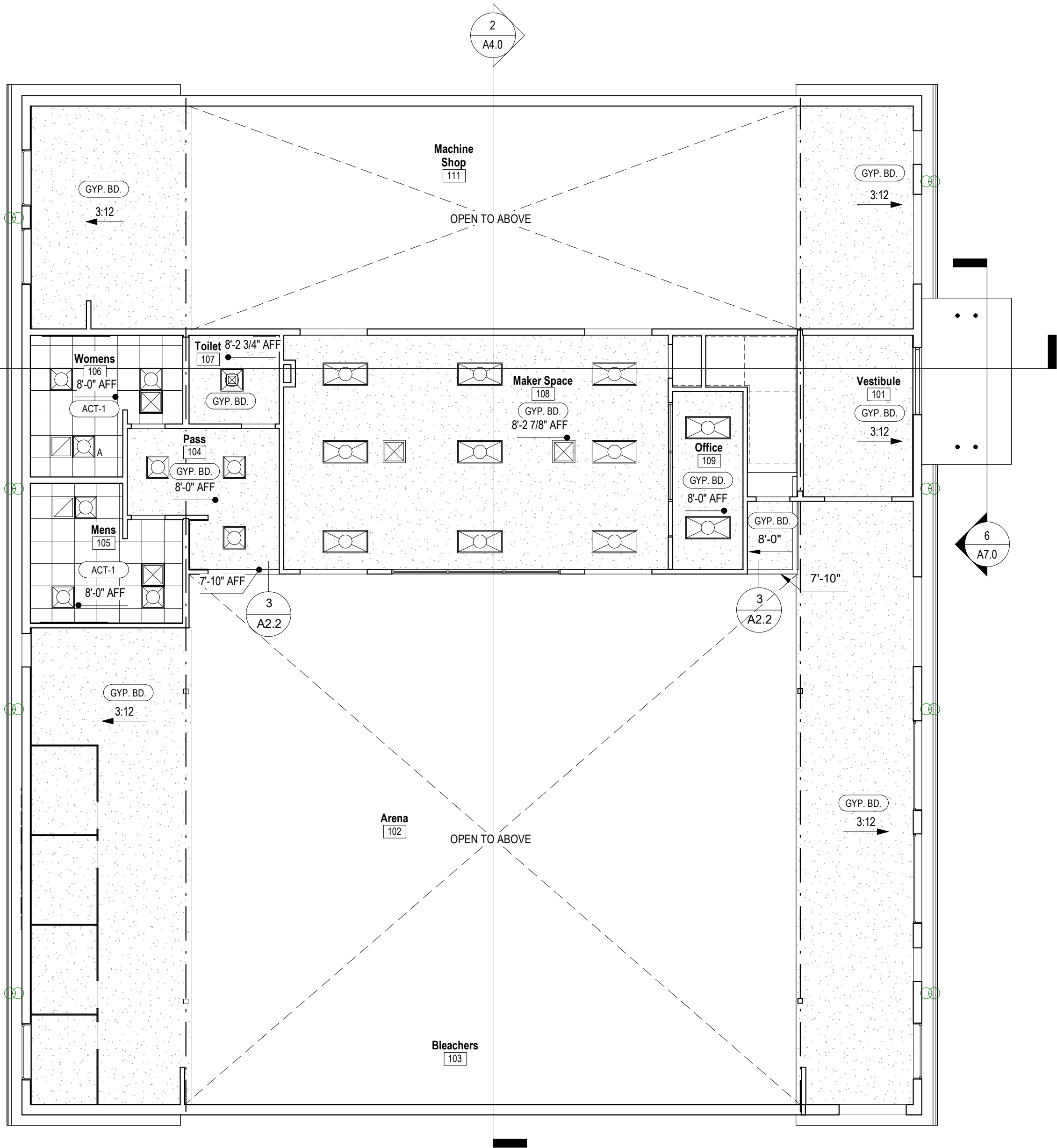
A2.2, 1/8" = 1'-0"



3 Bulkhead Detail

A2.2, 1 1/2\"/>

| REFLECTED CEILING PLAN LEGEND |                            |  |                     |
|-------------------------------|----------------------------|--|---------------------|
|                               | ACT-1<br>24\"/>            |  | CEILING FAN         |
|                               | EXPOSED CEILING            |  | SUPPLY AIR DIFFUSER |
|                               | GYP. BD.<br>CEILING, PAINT |  | RETURN AIR          |
|                               | LIGHT FIXTURE              |  |                     |



1 First Floor Reflected Ceiling Plan

A2.2, 1/8" = 1'-0"

ARCHITECT

**SEDGEWICK + FERWEDA ARCHITECTS**

410 East Court Street Flint, MI 48503  
810-238-9647 | www.sfarch.us

Good clients + Good design + Great architecture



| REVISIONS |             |
|-----------|-------------|
|           |             |
|           |             |
|           |             |
|           |             |
|           |             |
| Date      | Description |

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

Drawing  
**Reflected Ceiling Plan**

DRAWN BY: Author  
CHECKED BY: JSF

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

**A2.2**

---

A2.3 |  $1/8'' = 1'-0''$ 

|      |                      |
|------|----------------------|
| A2.3 | $1^{\circ} = 1'-0''$ |
|------|----------------------|

|      |                  |
|------|------------------|
| A2.3 | $1/8'' = 1'-0''$ |
|------|------------------|

|      |                |
|------|----------------|
| A2.3 | $1^* = 1'-0^*$ |
|------|----------------|

|      |                |
|------|----------------|
| A2.3 | $1/4" = 1'-0"$ |
|------|----------------|

DESIGN LOADS:

DEAD LOAD 20 LBS/SQ FT  
LIVE LOAD 20 LBS/SQ FT NON-REDUCIBLE  
GROUND SNOW LOAD (Pg) 35 LBS/SQ FT  
FLAT ROOF FACTOR 0.7  
FLAT ROOF SNOW LOAD (P) 21 LBS/SQ FT  
SNOW LOAD IMPORTANCE FACTOR (Is) 1.1  
SNOW EXPOSURE COEFFICIENT (Ce) 1.0 PARTIALLY EXPOSED  
THERMAL COEFFICIENT (Ct) 1.0 HEATED STRUCTURE

WIND LOAD 120 MPH 3 SECOND GUST  
RISK CATEGORY II  
WIND EXPOSURE 'B'  
APPLICABLE INTERNAL PRESSURE COEFFICIENT +/- 0.18  
FOR COMPONENTS AND CLADDING 23.5 LBS/SQ FT

SEISMIC INFORMATION  
RISK CATEGORY II  
SEISMIC IMPORTANCE FACTOR (I<sub>e</sub>) 1.25  
MAPPED SPECTRAL RESPONSE  
ACCELERATION PARAMETERS S<sub>s</sub> = 13.7  
S<sub>1</sub> = 1.1

SITE CLASS 'D'  
DESIGN SPECTRAL RESPONSE  
ACCELERATION PARAMETERS  $SDS = 0.147$   
 $SD1 = 0.0675$   
SEISMIC DESIGN CATEGORY 'A'  
DESIGN BASE SHEAR 1175 LBS  
ANALYSIS PROCEDURE USED WOOD FRAME

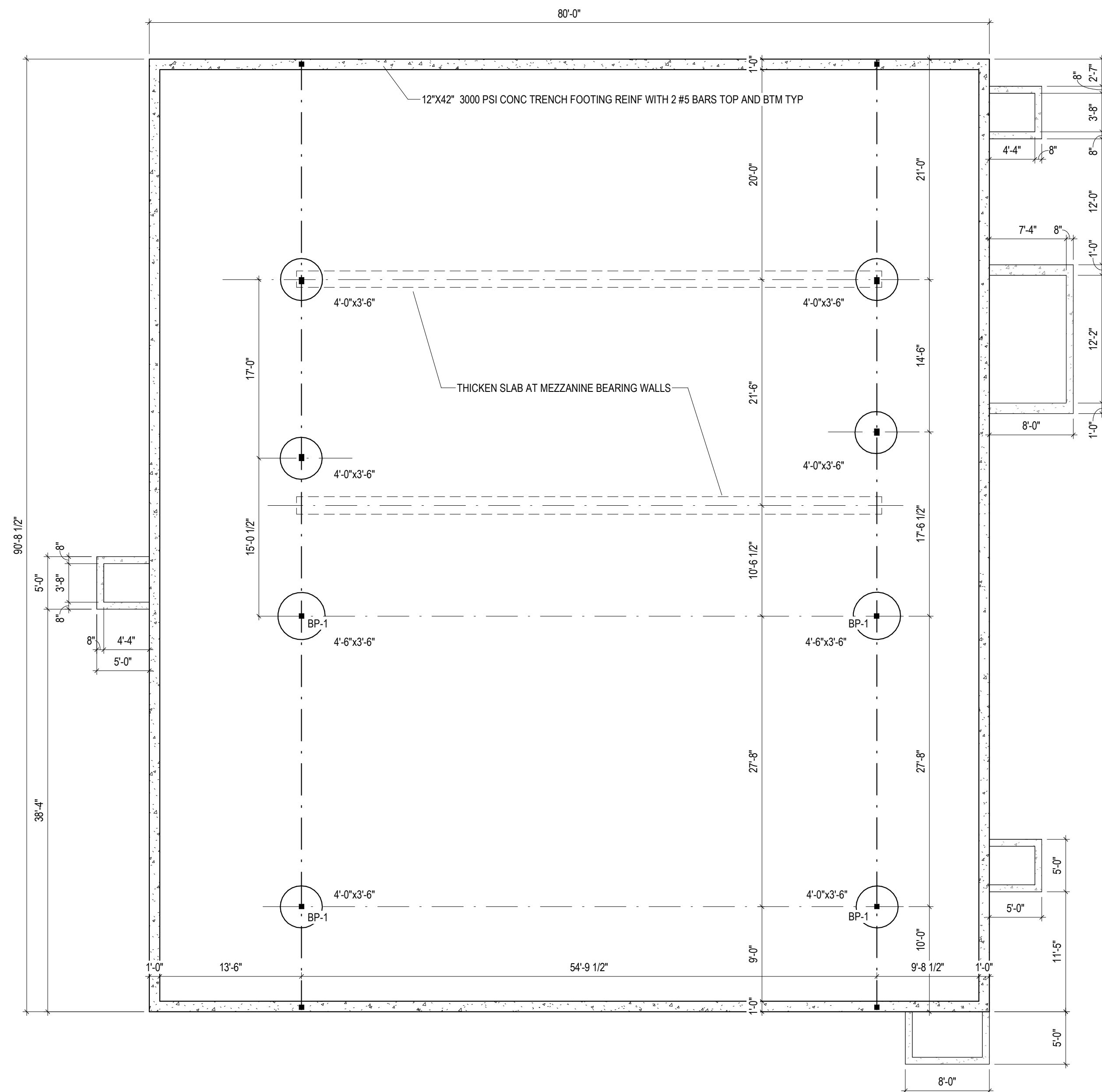
SOIL BEARING 1500 PSF  
MEZZANINE LIVE LOAD 100 LBS/SQ FT



| REVISIONS |             |
|-----------|-------------|
|           |             |
|           |             |
|           |             |
|           |             |
|           |             |
| Date      | Description |



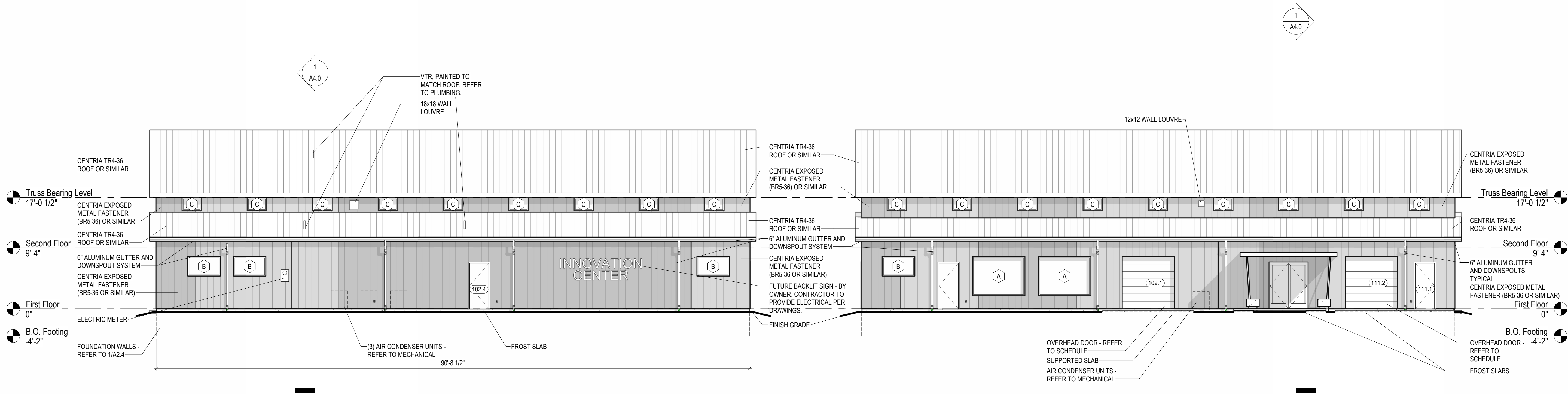
|      |                       |
|------|-----------------------|
| A2.4 | $1/8'' \equiv 1'-0''$ |
|------|-----------------------|



---

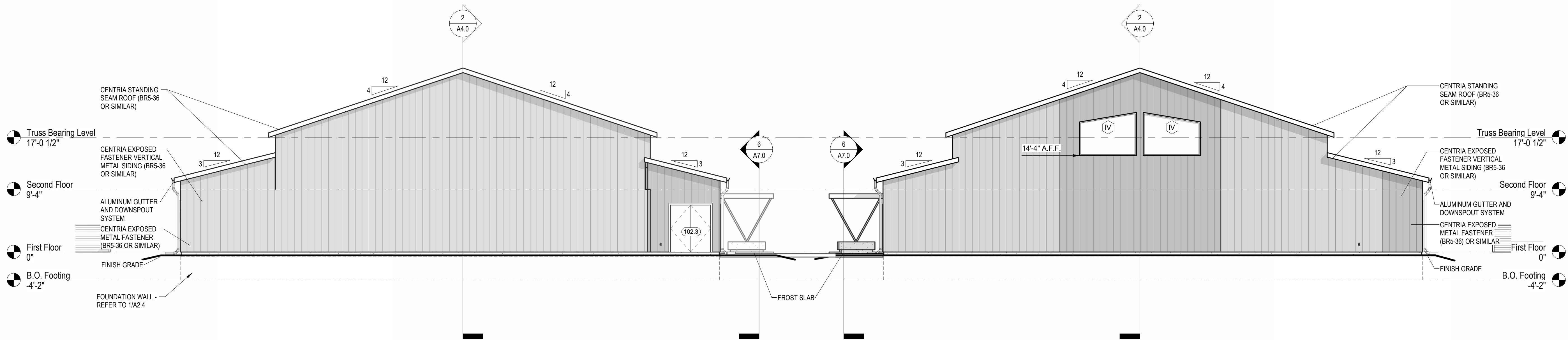
A2.4  $1/8'' = 1'-0''$

## A2.4



**4 West Elevation**  
A3.0 | 1/8" = 1'-0"

**3 East Elevation**  
A3.0 | 1/8" = 1'-0"



**2 South Elevation**  
A3.0 | 1/8" = 1'-0"

**1 North Elevation**  
A3.0 | 1/8" = 1'-0"

SEAL OF ARCHITECT

ARCHITECT  
**SEDGEWICK + FERWEDA ARCHITECTS**

410 East Court Street Flint, MI 48503  
810-238-9647 | www.sfarch.us

Good clients + Good design + Great architecture



REVISIONS

| Date | Description |
|------|-------------|
|      |             |
|      |             |
|      |             |
|      |             |
|      |             |

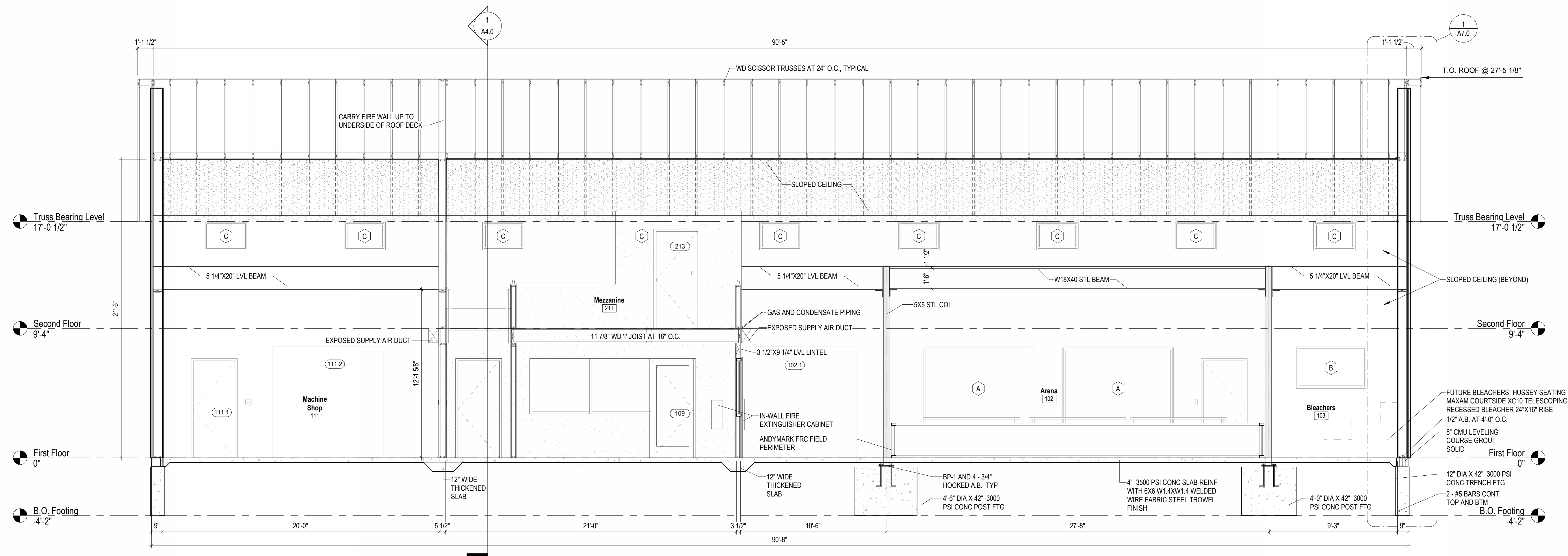
Project  
**ESSEXVILLE-HAMPTON PUBLIC**  
305 Pine Street, Essexville, MI 48732N  
**AND DESIGN**

Drawing  
**Exterior Elevations**

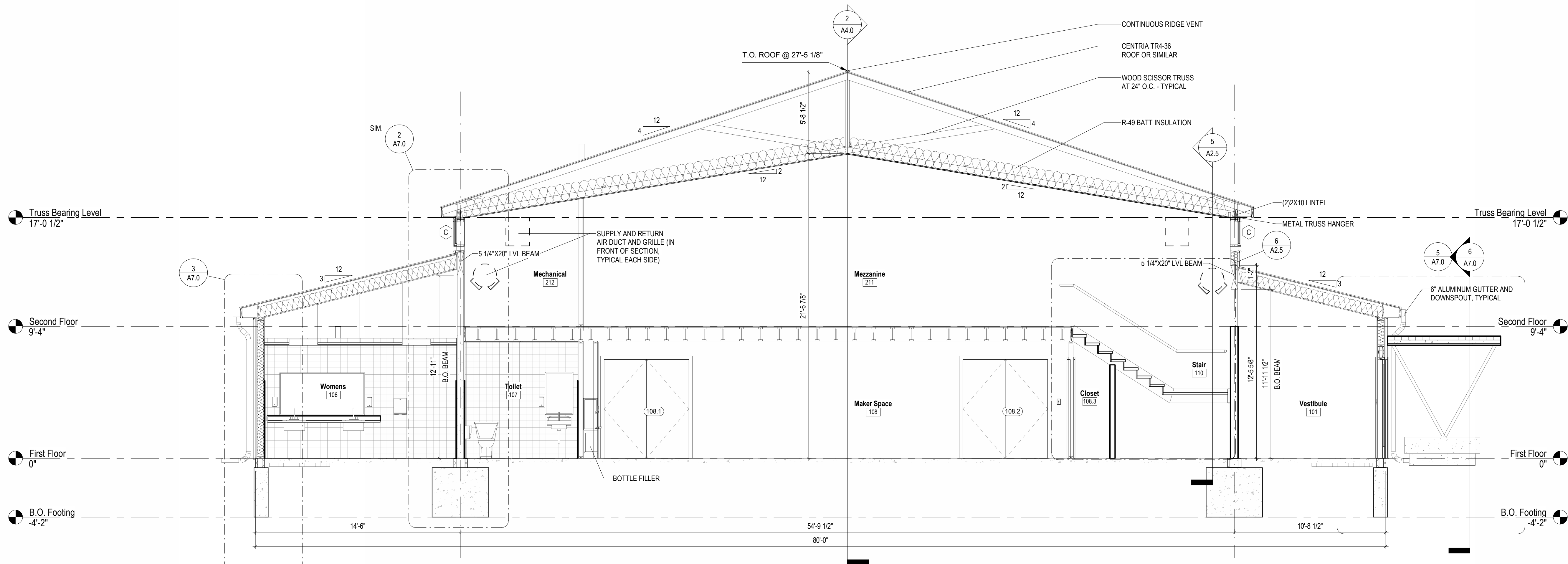
DRAWN BY: Author  
CHECKED BY: JSF

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

**A3.0**



## 2 Building Section - Longitudinal



## 1 | Building Section - Lateral

SEAL OF ARCHITECT

ARCHITECT

**SEDGEWICK + FERWEDA ARCHITECTS**

410 East Court Street Flint, MI 48503  
810-238-9647 | [www.sfarch.us](http://www.sfarch.us)

Good clients + Good design + Great architecture



## REVISIONS

[illegible]

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

8/7/2026 12:45:04 PM

[illegible]

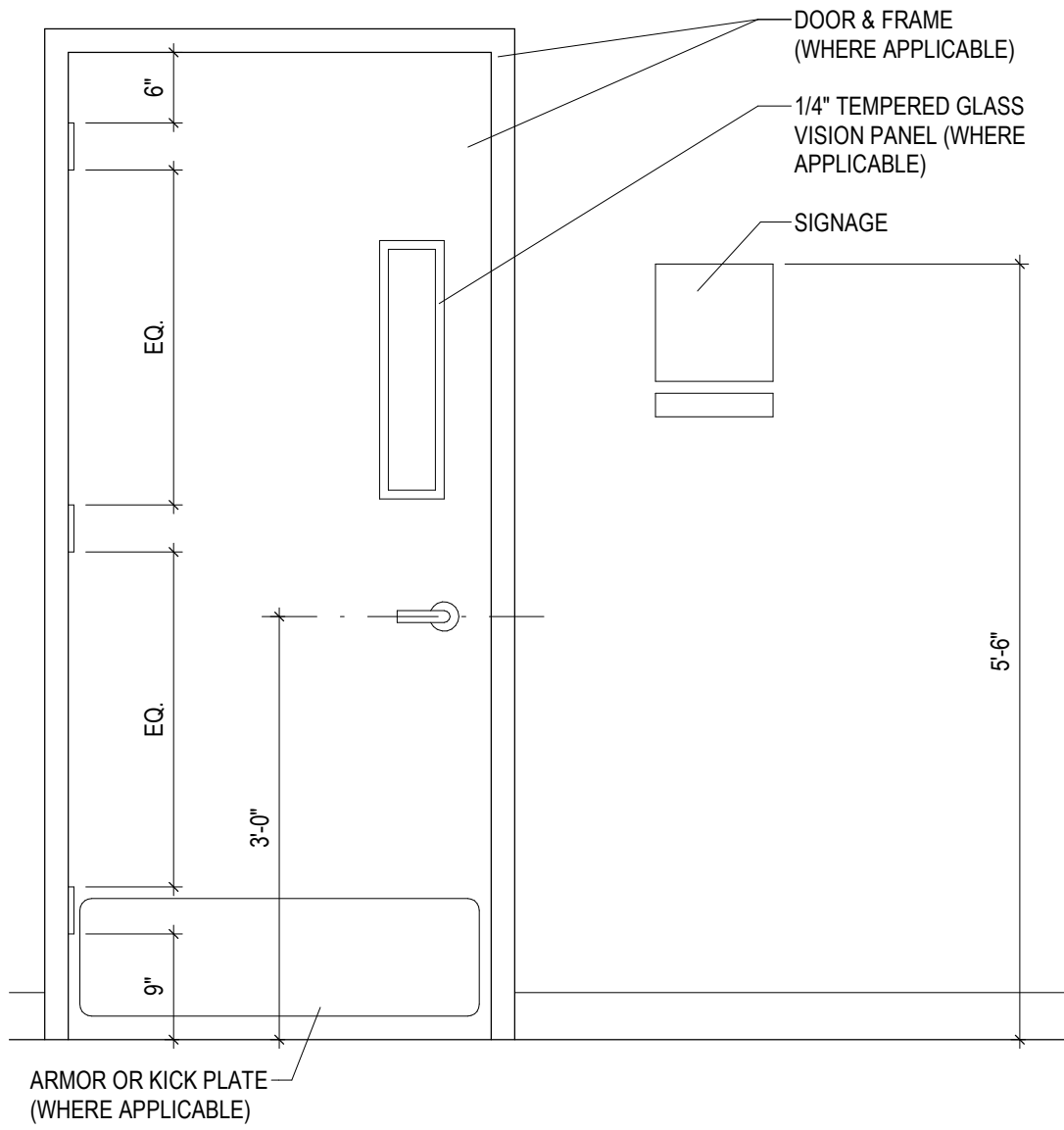
- ## Toilet Accessories Schedule

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



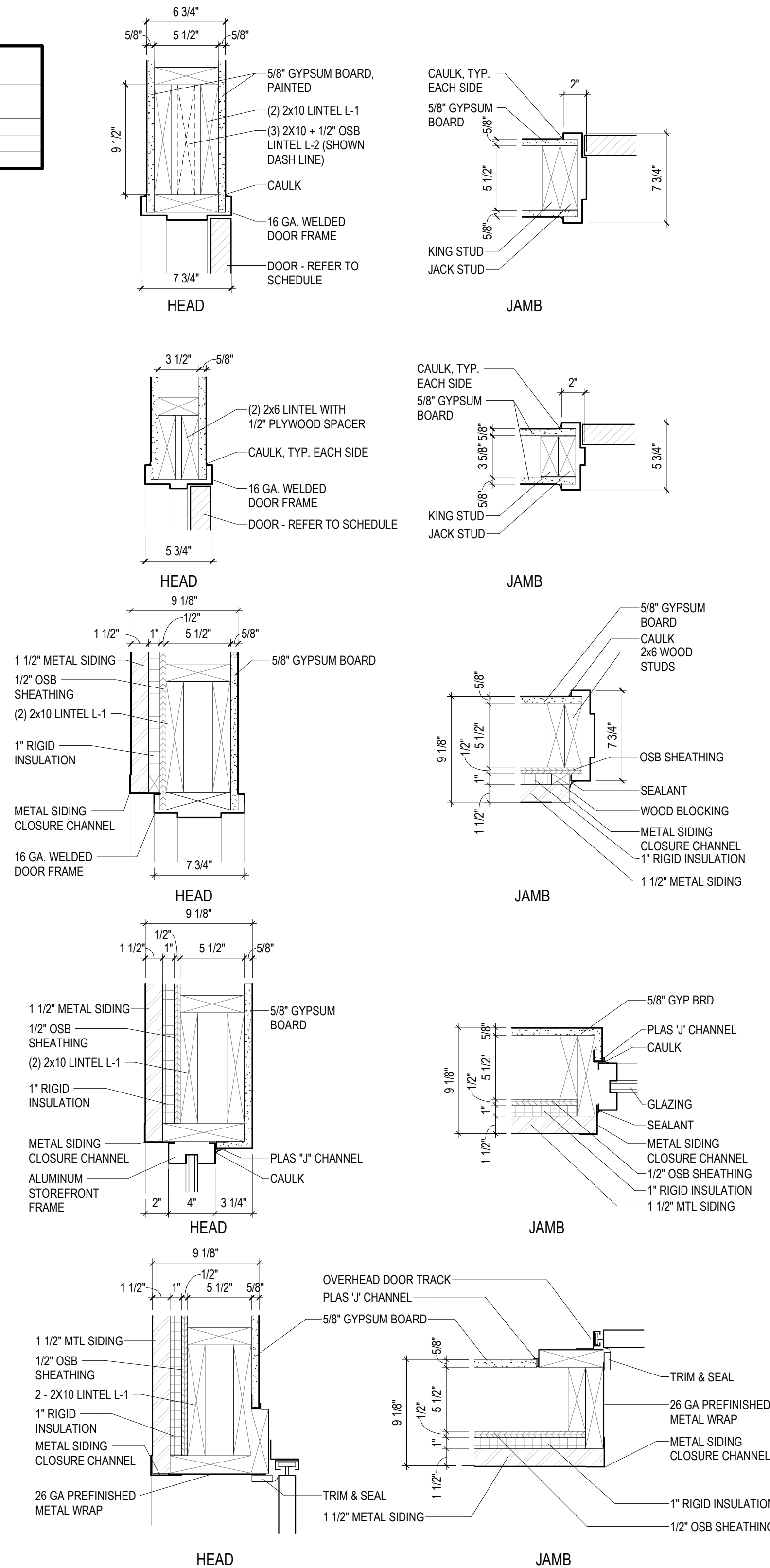
| ROOM SCHEDULE |              |              |             |                  |                  |                |                |                |                                                                                           |
|---------------|--------------|--------------|-------------|------------------|------------------|----------------|----------------|----------------|-------------------------------------------------------------------------------------------|
| 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           | Pass         | S. CONC.     | RESILIENT   | GYP. BD.         | GYP. BD. / CT    | GYP. BD. / --  | GYP. BD. / CT  | GYP. BD.       |                                                                                           |
| 105           | Mens         | S. CONC.     | --          | GYP. BD. / CT    | GYP. BD. / CT    | GYP. BD. / --  | GYP. BD. / CT  | SAT-1          |                                                                                           |
| 106           | Womens       | S. CONC.     | --          | GYP. BD. / CT    | CT               | GYP. BD. / CT  | GYP. BD. / CT  | SAT-1          |                                                                                           |
| 107           | Toilet       | S. CONC.     | --          | GYP. BD. / CT    | CT               | GYP. BD. / CT  | GYP. BD. / CT  | SAT-1          |                                                                                           |
| 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.       | --             |                                                                                           |
| 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.       | --             |                                                                                           |
| 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 | R.O. HEIGHT | HEAD HEIGHT | COMMENTS |
| A               | 2     | 8'-0" | 6'-0"       | 8'-0"       |          |
| B               | 4     | 5'-0" | 3'-0"       | 8'-0"       |          |
| C               | 18    | 3'-0" | 2'-0"       | 7'-8"       |          |



## Typical Hardware, Signage & 2 Device Mounting Heights

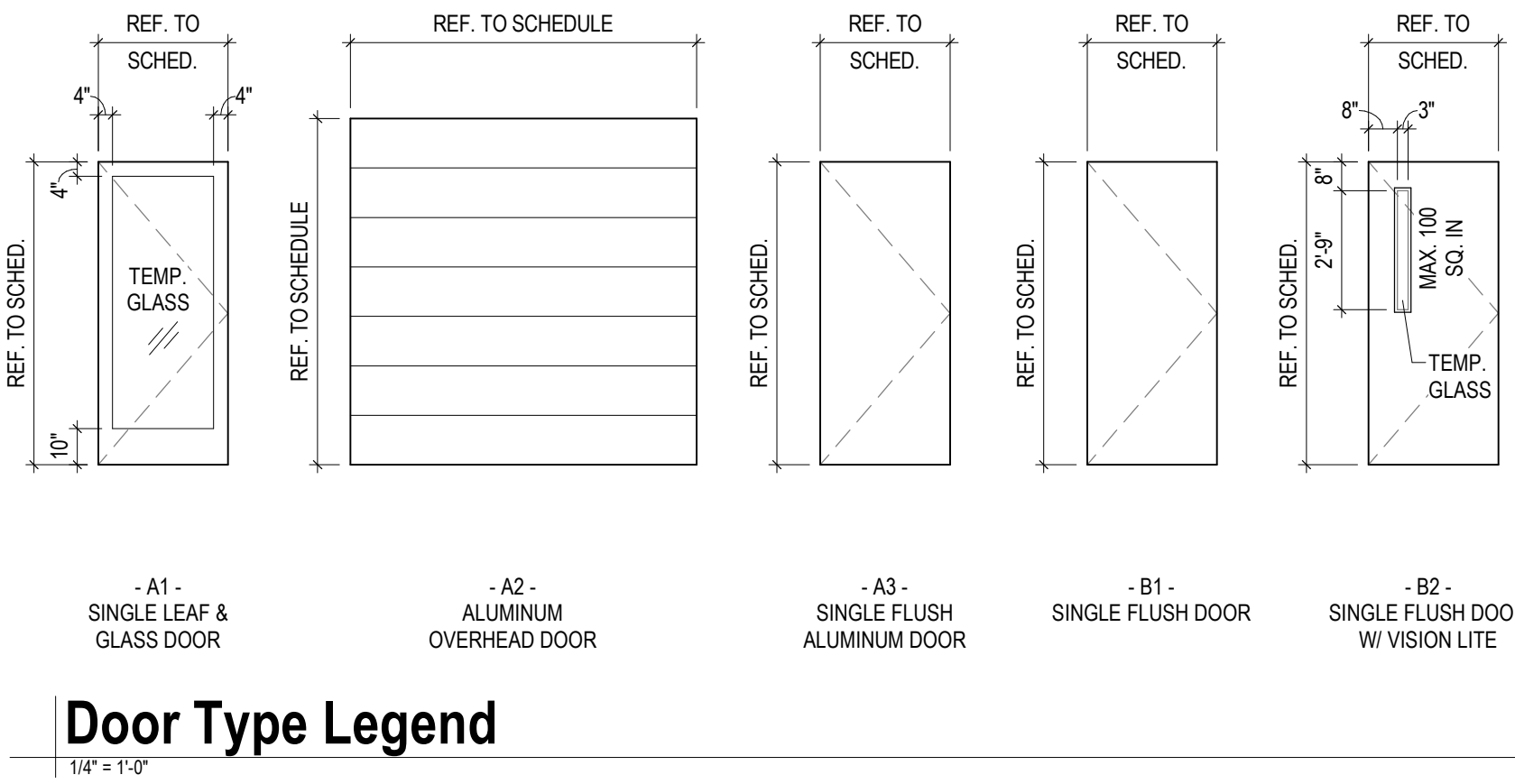
A6.0 | 3/4" = 1'-0"



## 1 Door Details

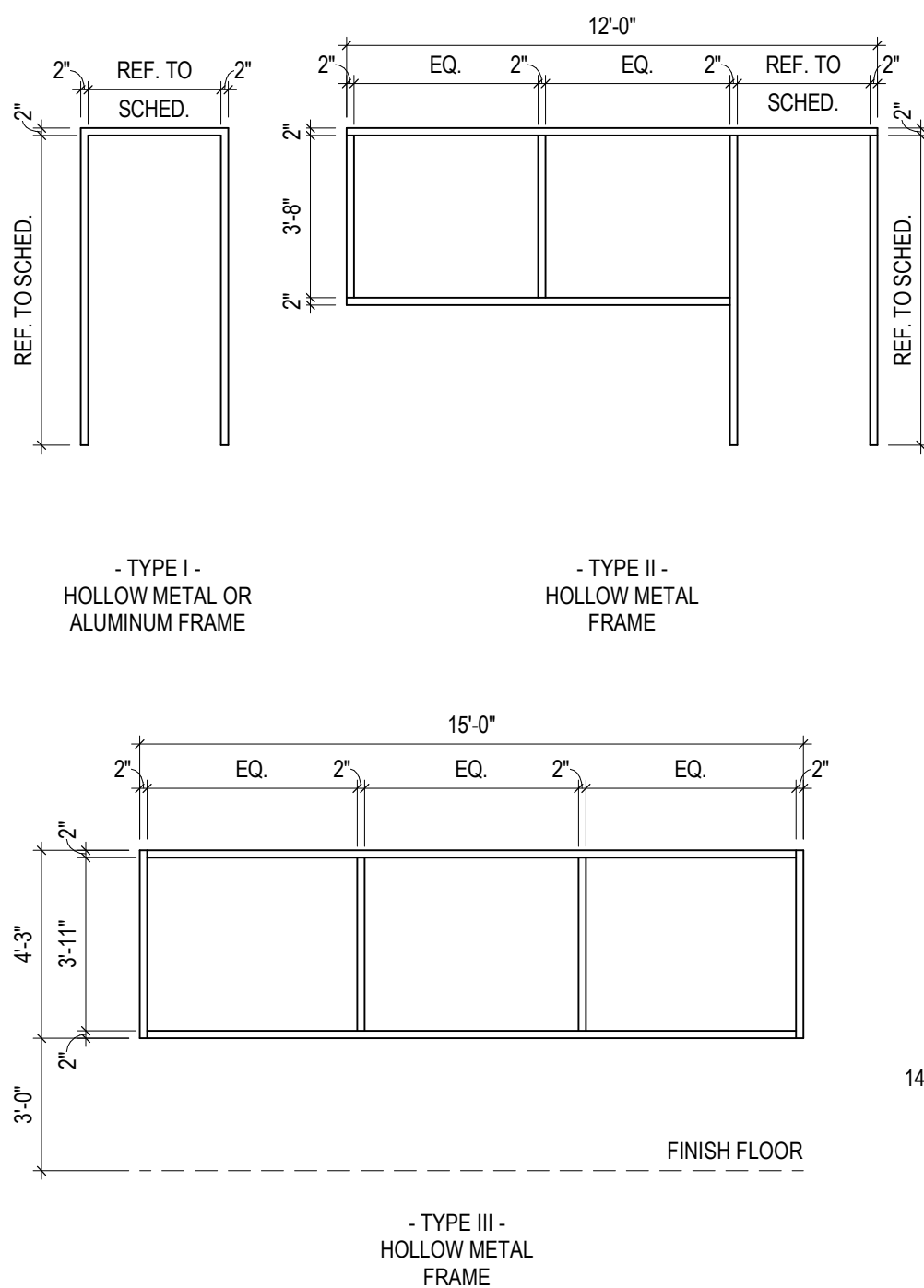
A6.0 | 1 1/2" = 1'-0"

| DOOR SCHEDULE |        |        |        |          |      |          |      |             |          |                                         |  |
|---------------|--------|--------|--------|----------|------|----------|------|-------------|----------|-----------------------------------------|--|
| DOOR NO.      | DOOR   |        |        | DOOR     |      | FRAME    |      | FIRE RATING | HARDWARE | COMMENTS                                |  |
|               | WIDTH  | HEIGHT | THICK. | MATERIAL | TYPE | MATERIAL | TYPE |             |          |                                         |  |
| 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    | --          | --       | DOOR TO HAVE RETRACTABLE LATCH DEADBOLT |  |
| 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    | --          | --       | DOOR TO HAVE RETRACTABLE LATCH DEADBOLT |  |
| 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

1/4" = 1'-0"



## Frame Type Legend

1/4" = 1'-0"

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):<br>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-CO-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):<br>108.3, 110, 212, 213 |                     |                  |            |
| 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                                          | 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):<br>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&quot; X AS REQ B-CS | BLK IVE    |
| 2 EA                                         | KICK PLATE     | 8400 10&quot; X AS REQ B-CS | BLK IVE    |
| 1 EA                                         | WALL STOP      | WS406/407CCV                | BLK IVE    |
| 3 EA                                         | SILENCER       | SR64                        | GRY IVE    |

| Hardware Group No. 05                               |                   |                             |            |
|-----------------------------------------------------|-------------------|-----------------------------|------------|
| For use on Door #(s):<br>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             | 5BB1HW 4.5 X 4.5            | BBLK IVE   |
| 1 EA                                                | AUTO FLUSH BOLT   | F831P                       | 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&quot; 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):<br>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&quot; 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                         | VON VON    |
| 1 EA                                         | WIRE HARNESS                           | CON-XXX                         | VON 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 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):<br>107                 |                |                             |            |
| 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                                         | PRIVACY LOCK   | W301S LAT                   | 622 FAL    |
| 1 EA                                         | SURFACE CLOSER | SC81A RWIPA                 | 622 FAL    |
| 1 EA                                         | KICK PLATE     | 8400 10&quot; X AS REQ B-CS | BLK IVE    |
| 1 EA                                         | WALL STOP      | WS406/407CCV                | BLK IVE    |
| 1 EA                                         | SOUND SEAL     | 185SBK PSA                  | BK ZER     |

ARCHITECT  
**SEDGEWICK + FERWEDA ARCHITECTS**

410 East Court Street Flint, MI 48503  
810-238-9647 | [www.sfarch.us](http://www.sfarch.us)

Good clients + Good design + Great architecture



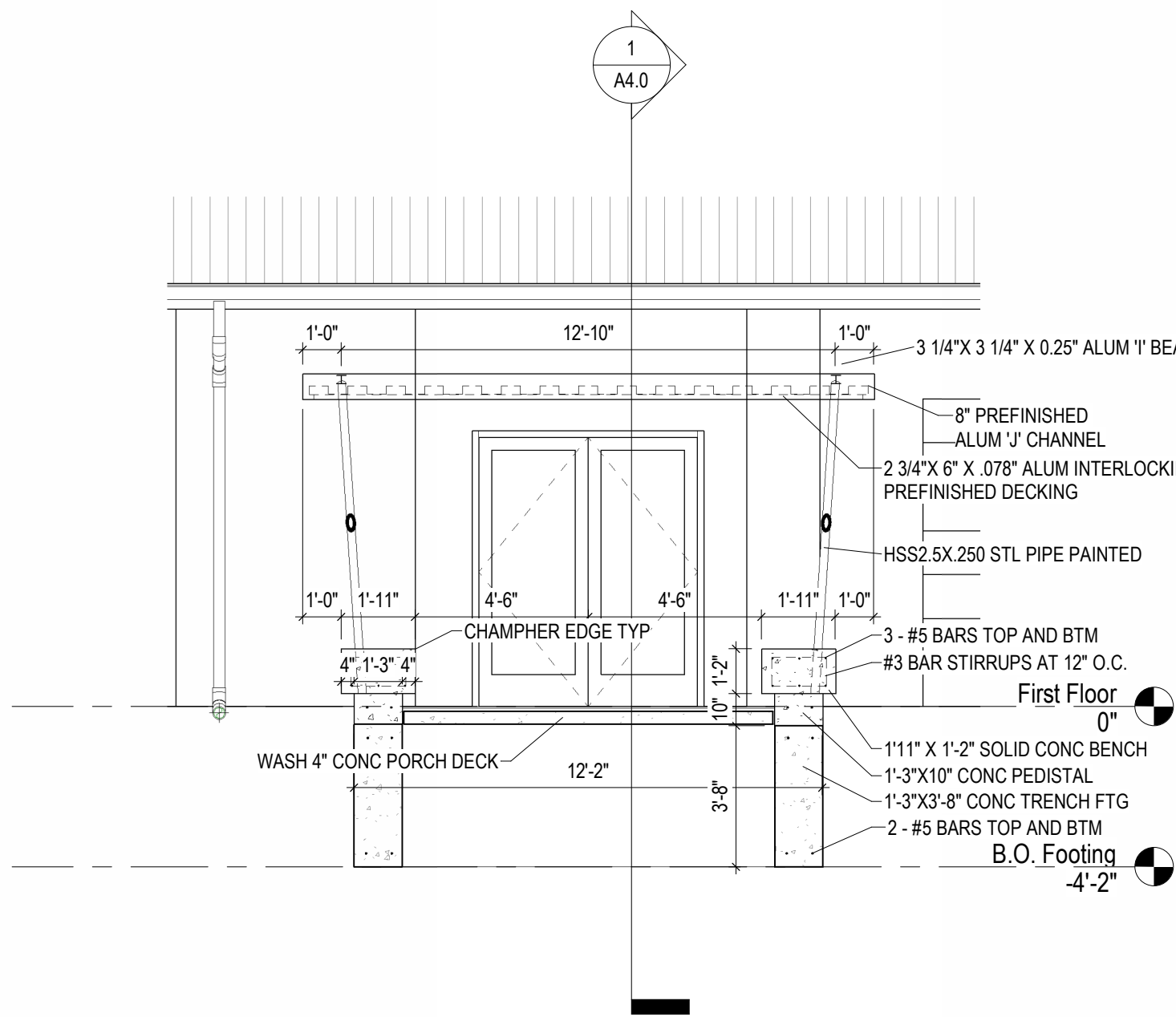
| REVISIONS |             |
|-----------|-------------|
|           |             |
|           |             |
|           |             |
|           |             |
|           |             |
|           |             |
|           |             |
| Date      | Description |

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

Drawing  
**Door and Frame Types, Door Schedule, Room Schedule, Window Schedule**

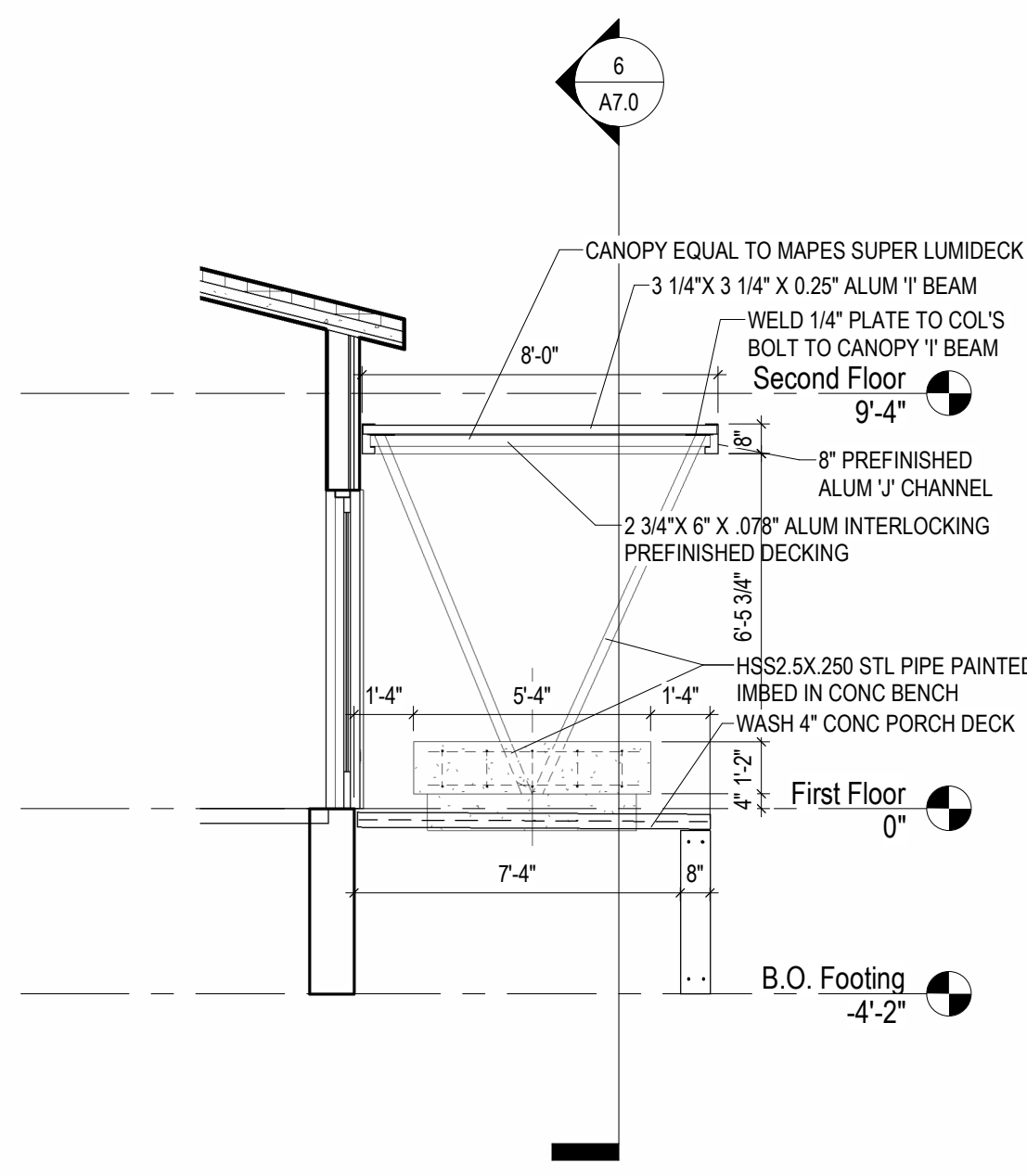
|                |               |
|----------------|---------------|
| DRAWN BY:      | SJS           |
| CHECKED BY:    | JSF           |
| PROJECT NUMBER | 25-028        |
| DATE           | JULY 29, 2026 |
| SCALE          | As indicated  |
| SHEET NUMBER   |               |

**A6.0**



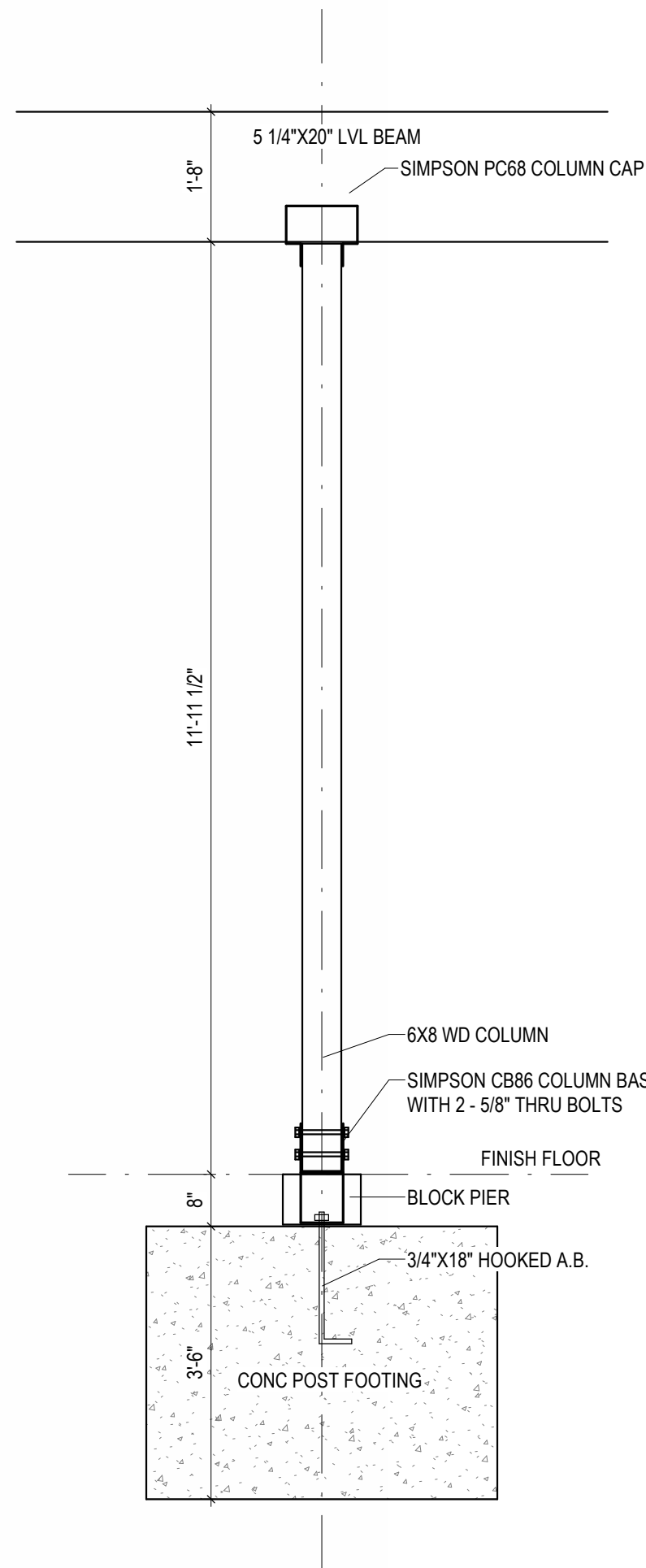
6 Canopy Elevation

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



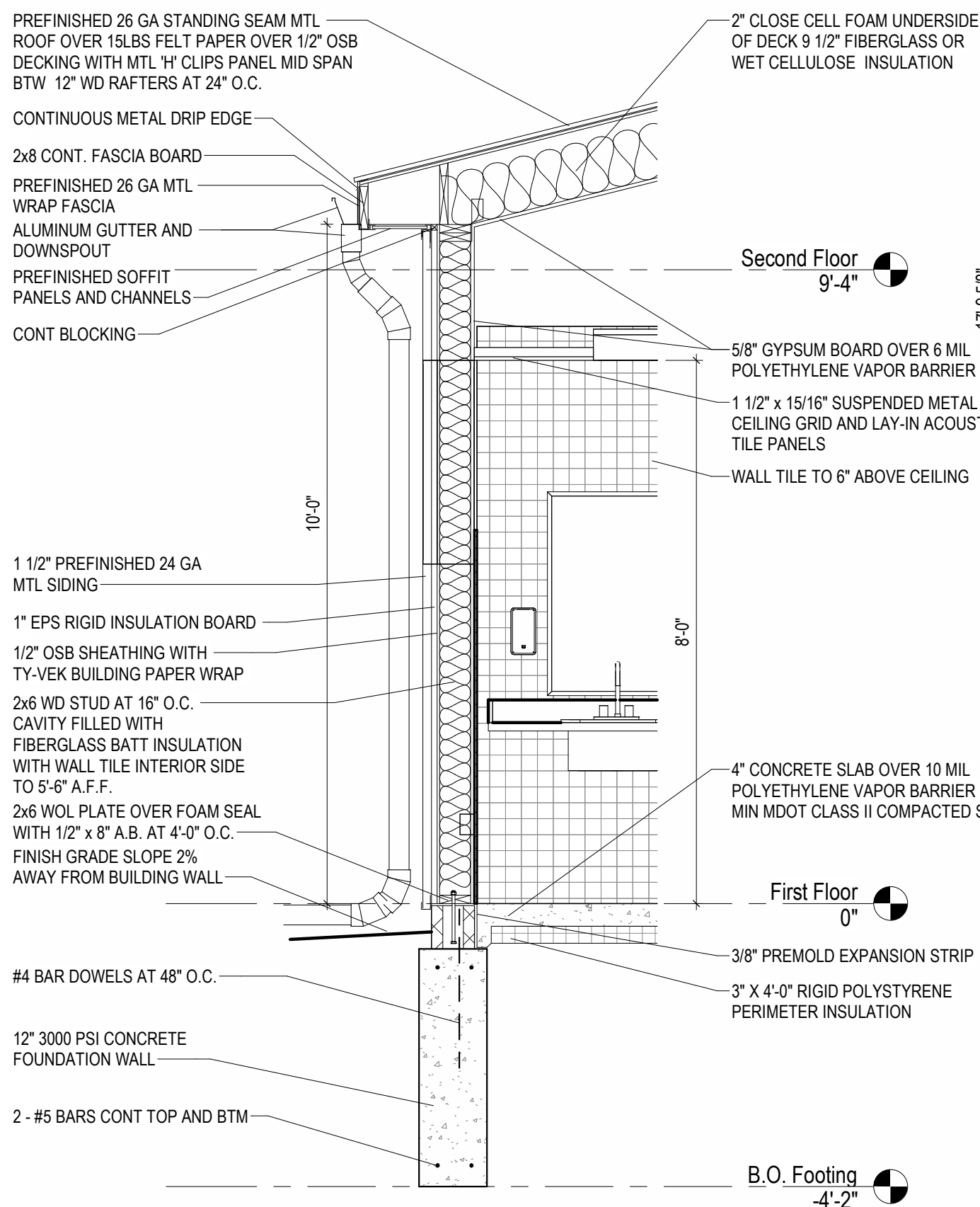
5 Canopy Section

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



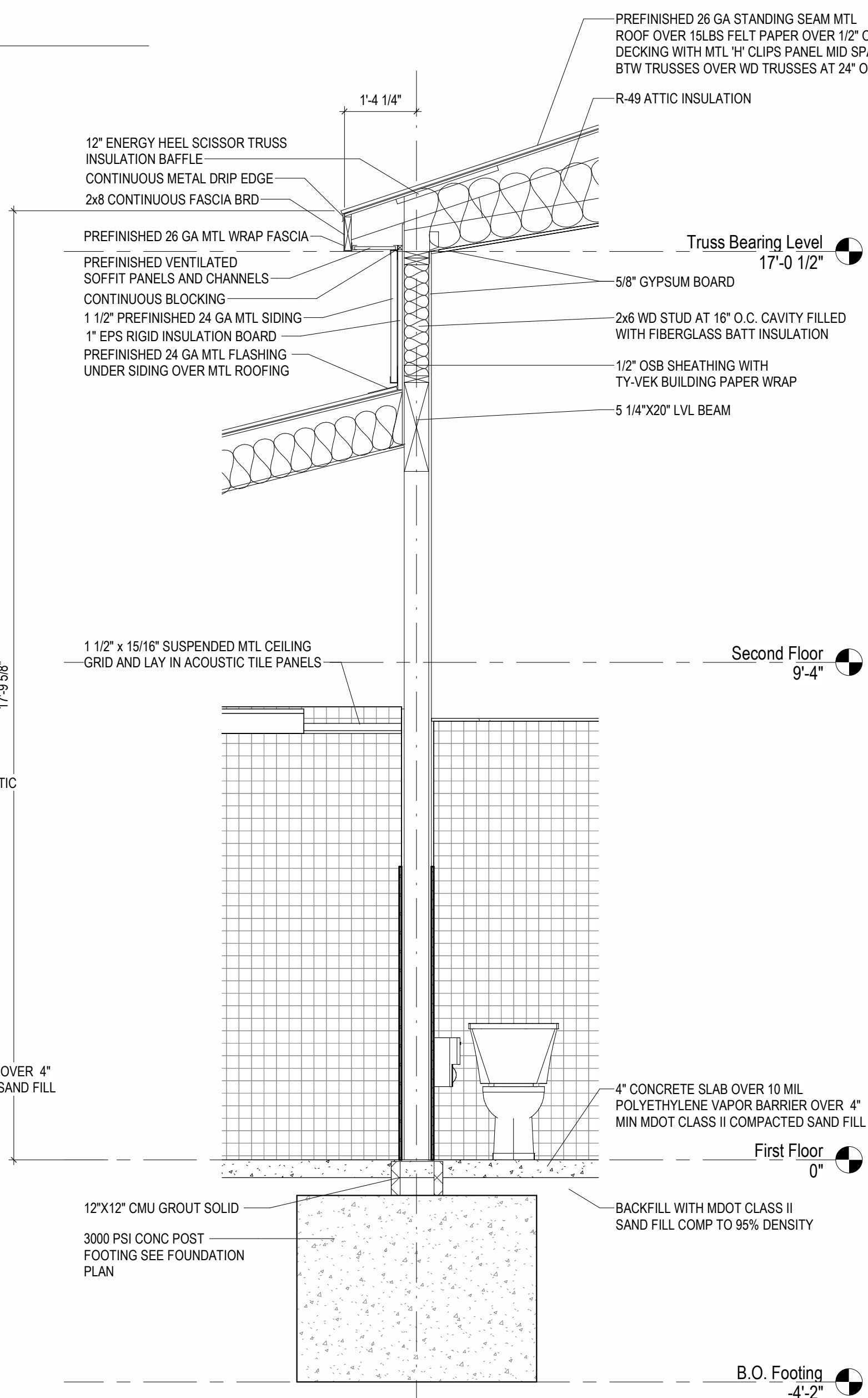
4 Columns

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



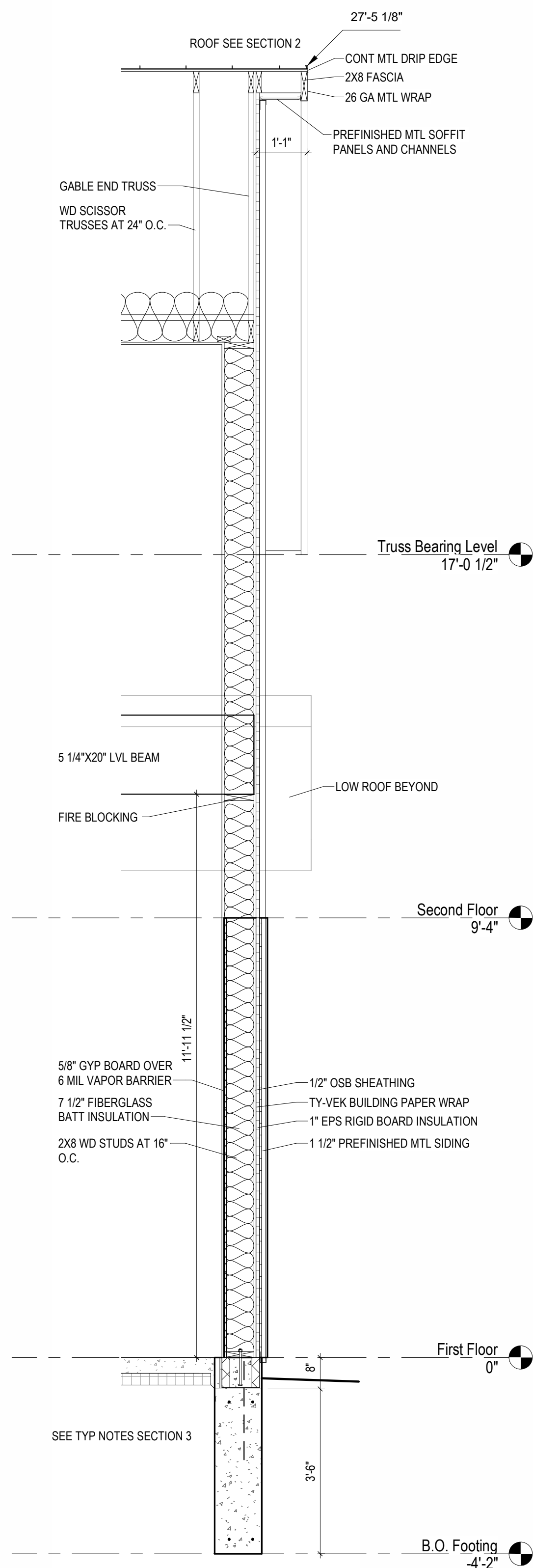
3 Wall Section

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



2 Wall Section

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



1 Wall Section

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

ARCHITECT  
**SEDGEWICK + FERWEDA ARCHITECTS**

410 East Court Street Flint, MI 48503  
810-238-9647 | [www.sfarch.us](http://www.sfarch.us)

Good clients + Good design + Great architecture

ARCHITECT



REVISIONS

Date Description

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 10'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 DESIGNS/
- 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. SPICES 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 #6s - W1, 4XW1.4 WWF UNLESS OTHERWISE NOTED.

INCISED CONTROL JOINTS AT 5'-0 CENTERS, SIDE WALKS, OR NOT OVER 20'-0 APART, SLABS. USE PREMOLDED, 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 ACE CODE 301.

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

PERIMETER INSULATION, 1"-2E# 58, 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

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 LINE SHALL MEET ASTM C-207, TYPE "S".

AGGREGATES FOR MORTAR/MASONS 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 BELTS TO BE GROUDED.

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
- MISC. SHAPES AND PLATES: ASTM A36, Fy= 36 KSI
- PIPE ASTM A53, GRADE B, TYPE E OR S, Fy=35 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 "SP-LCRITICAL" 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-EXCXX 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 SPLICED. 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 SEPERATELY. 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, WALLERS, 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, STRIPS, AND ANCHORS, BLOCKING, HANGERS, ANGLES, 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 TO BE OF QUALITY, SIZE, WEIGHT, AND NUMBER REQUIRED BY APPLICABLE FRAMING STANDARDS.

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  
Fc= 750 PSI (PERPENDICULAR)  
Ft= 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 HALL 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 1975 BY THE ARCHITECTURAL WOOD WORK INSTITUTE (AWI), SHALL FORM A PART OF THESE SPECIFICATIONS EXCEPT AS OTHERWISE NOTED.

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

PARTICLE BOARD, DEPT. OF COMMERCE STANDARD CS236-66. 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 MANUFACTURERS 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 26A 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 00227E, CLASS A. ASTM C920-86. 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 BLOCK 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. SDA100. 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. SDA100. 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 II AIR LEAKAGE REQUIREMENTS, ASTM E-203.

**GARAGE DOOR** - SECTIONAL 'OVERHEAD DOOR' MODEL 5911 .019" GAL RIBBED STEEL PANEL R-14.86 POLYURETHANE CORE AND STEEL CHANNEL TRACK.

ROLLING ' OVERHEAD DOOR' MODEL 612 22 GA. GAL STEEL SLAT F-265 FLAT PROFILE, 24 GA GAL STEEL HOLLOW 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 #260, 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 FBB 199 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 CB1961 TYPE.

**LOCKSETS** HEAVY DUTY, COMMERCIAL. MEETING REQUIREMENTS OF ANSI A156.3, 1994, GRADE 1, FEDERAL SPEC. #6 AND 87, KEYS FOR FIVE OR SIX PIN TUMBLERS. DEADLOCKS, ANSI 156.5, GRADE 1, FEDERAL SPEC. 190.

**EXIT DEVICES** TROUGH 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 CLOSE FROM FULL OPEN TO 3" FROM LATCH IN 3 SECONDS.

**PUSH PULLS** EQUAL TO BROOKLINE, STYLE 50C. 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 CYPERH LOCK ACTUATOR.

**CYPHER LOCK** SCHLAGE 'PRO SERIES' CARD/PUK BUTTON ACCESS CONTROL SYSTEM.

**ELECTRONIC STRIKE** VON DUPRIN SERIES 6000.

**MISCELLANEOUS** STOPS, EXTERIOR DOORS, OVER HEAD, GJ80M, SURFACE APPLIED. INTERIOR DOORS, FLOOR TYPE DOMED, GJF813 (NO THRESHOLD), GJF814 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 ASTRAKLS, STANLEY 5620 FOR PASS DOORS. THERMAL BARRIER THRESHOLD 1/2" THICK, WITH BOTTOM DOOR SEALS, SWEEP TYPE.

EXTERIOR DOORS WITH NO CANOPY PROTECTION. INSTALL RAIN DRIP CAPS, HEAD SILL, STANLEY

PLUMBING NOTES

- SCOPE
- THE WORK TO BE PERFORMED UNDER THE PLUMBING PLANS AND SPECIFICATIONS CONSISTS OF FURNISHINGS ALL MATERIAL AND LABOR FOR THE COMPLETE INSTALLATION FOR ALL PLUMBING SYSTEMS FOR TENANT SPACES. THE WORK SHALL INCLUDE BUT NOT LIMITED TO THE FOLLOWINGS:
    - COLD AND HOT WATER SYSTEMS
    - DRAINAGE AND VENT SYSTEMS
    - INSULATION
    - GAS PIPING
  - CONTRACTOR SHALL COORDINATE ALL WORK WITH OTHER TRADE TO AVOID CONFLICT AND TO FACILITATE THE WORK WITHOUT CAUSING UNNECESSARY DELAYS. IMMEDIATELY REPORT ANY DISCREPANCIES, IN WRITING, TO THE ENGINEER. ALL CHANGES AND/OR ALTERATIONS REQUIRE REVIEW AND APPROVAL BY THE ENGINEER.
  - CONTRACTOR SHALL COORDINATE WITH EQUIPMENT VENDOR AND PROVIDE FOR ALL PIPING, VALVES, CONNECTIONS, ETC. AS INDICATED.

- GENERAL
- ALL WORK IS TO BE PERFORMED IN STRICT COMPLIANCE WITH THE LATEST EDITION OF THE NATIONAL STANDARD PLUMBING CODE, MPC-2015, ALL LOCAL CODES, AND ALL OTHER REGULATION GOVERNING WORK OF THIS NATURE
  - THE CONTRACTOR IS RESPONSIBLE FOR ALL WORK MATERIALS AND LABOR TO SATISFY A COMPLETE AND WORKING SYSTEM WHETHER SPECIFIED OR IMPLIED.
  - DO NOT SCALE THIS DRAWING FOR EXACT DIMENSIONS. VERIFY ALL FIGURES, CONDITIONS, DIMENSIONS, ETC. AT THE JOB SITE.
  - LOCATIONS OF EXISTING EQUIPMENT, PIPING, VENTS, ETC. HAVE BEEN TAKEN FROM BEST AVAILABLE INFORMATION. THE DRAWINGS ARE INTENDED TO BE USED FOR INFORMATIONAL PURPOSES ONLY. THE CONTRACTOR IS NOT TO SCALE DRAWINGS OR ASSUME THAT ALL COMPONENTS ARE SHOWN. HE SHALL VISIT THE SITE TO DETERMINE THE TOTAL EXTENT OF REMOVALS AND NEW WORK AS DIAGRAMMED ON THE PLANS. EXTRA COMPENSATIONS FOR FAILURE TO COMPLY WITH THE ABOVE STATEMENT WILL NOT BE CONSIDERED.
  - THE CONTRACTOR SHALL COORDINATE ALL WORK WITH A COMPLETE SET OF M/P/E ARCHITECTURAL, AND EQUIPMENT VENDOR DESIGN DRAWINGS IF APPLICABLE. IMMEDIATELY REPORT ANY DISCREPANCIES TO THE ENGINEERS OFFICE.
  - THE CONTRACTOR SHALL SECURE ALL PERMITS OR APPLICATIONS AND PAY ANY AND ALL FEES REQUIRED.
  - ALL PLUMBING FIXTURES SHALL BE SEPARATELY VALVED
  - ALL WATER BRANCHES AND RISERS SHALL BE SEPARATELY VALVED.
  - CONTRACTOR SHALL MAKE ALL PLUMBING CONNECTIONS REQUIRED TO EQUIPMENT SUPPLIED BY OTHERS.
  - CONTRACTOR SHALL PROVIDE AND INSTALL ALL HOT AND COLD WATER CONNECTIONS TO THE PLUMBING FIXTURES.
  - CONTRACTOR SHALL COORDINATE WITH GENERAL CONTRACTOR FOR THE INSTALLATION OF METAL ACCESS DOORS BY MILCOR STYLE "DW" (NON FIRE RATED) OR STYLE "URF" (1 1/2 HOUR FIRE RATED) AT ALL LOCATIONS REQUIRED TO ACCESS VALVES, DEVICES, ETC. CONCEALED ABOVE CEILINGS OR IN WALLS.
  - CONTRACTOR SHALL PROVIDE WATER HAMMER ARRESTORS ON APPLIANCES/FIXTURES THAT HAVE FAST CLOSING VALVES, APPLIANCES/FIXTURES SHALL INCLUDE BUT NOT NECESSARILY LIMITED TO CLOTHES WASHER, DISH WASHER, SELF CLOSING VALVES, PULSATING SHOWER HEADS, ETC.
  - CONTRACTOR SHALL PROVIDE FOR OR COORDINATE WITH G.C. SAW CUTTING, EXCAVATION, BACKFILL AND RESTORATION TO MATCH EXISTING CONDITIONS AS NEEDED FOR PROPERLY EXECUTING THE PLUMBING SCOPE OF WORK. NOTE: DEMOLITION NOTES ARE ALSO NOTED ON ARCHITECTURAL DEMOLITION DRAWINGS.
  - ALL PLUMBING FIXTURES, ROUGH IN AND INSTALLATION AS PER MICHIGAN BUILDING CODE 2015 AND THE AMERICAN DISABILITY ACT.

- DEMOLITION
- CONTRACTOR IS RESPONSIBLE FOR SELECTIVE DEMOLITION IN ALL AREAS AS REQUIRED TO ACCOMMODATE THE PROJECT'S SCOPE OF WORK. ALL SYSTEMS AND ANCILLARY COMPONENTS MADE OBSOLETE SHALL BE COMPLETELY REMOVED AND DISPOSED. INSTALL BY-PASS WHERE REQUIRED TO MAINTAIN THE INTEGRITY OF OVERALL SYSTEMS REMAINING AND SERVING AREAS OUTSIDE THE SCOPE OF WORK AREA.
  - CONTRACTOR SHALL PERFORM A SITE INSPECTION TO ESTABLISH EXTENT OF DEMOLITION PRIOR TO BID.

- SUBSTITUTES
- SUBSTITUTES AND "OR EQUAL" SUBMISSION MUST BE APPROVED IN WRITING BY ENGINEER PRIOR TO SUBMISSION OF BID.

- IDENTIFICATIONS
- PROVIDE STENCILED PIPE MARKERS OR PLASTIC TAPE WITH COLOR COMPLYING WITH ANSI A13.1. INCLUDE DIRECTION OF FLOW.
  - LOCATE MARKERS NEAR VALVES, EACH BRANCH TAKE OFF AND NEAR MAJOR EQUIPMENT. MAXIMUM SPACE INTERVALS SHALL NOT EXCEED 50'-0"

- INSULATION
- ALL HOT AND COLD WATER PIPING TO BE INSULATED WITH A MINIMUM OF 1" FIBERGLASS JACKETED INSULATION (ASTM C547, CLASS 1) WITH A FLAME SPREAD RATINGS OF 25 AND SMOKE DEVELOPED RATING OF 50.

- ESCUTCHEONS
- ALL EXPOSED PIPING EXCEPT AS OTHERWISE DESCRIBED PASSING THROUGH WALLS, FLOORS, CEILING, ETC. IN FINISHED SPACES SHALL BE PROVIDED WITH SOLID PATTERN BRASS CHROME PLATED ESCUTCHEONS WITH SET SCREW.

- BARRIER FREE REQUIREMENT
- ALL EXPOSED WASTE AND WATER PIPING WITHIN A BARRIER FREE BATHROOM SHALL BE INSULATED WITH A PRODUCT EQUAL TO IPS CORP. "THERBRO" LAV GUARD 2 UNDERSINK PROTECTIVE PIPE COVERS WITH INTERNAL EZ TEAR-TO-FIT TRIM FEATURE FOR SQUARE CLEAN TRIMMING. INTERNAL RISBS AND BUILT-IN, CONCEALED E-Z GRIP FASTENERS (NO CABLE TIE FASTENERS ALLOWED).

- SOIL WASTE AND VENT PIPING
- SOIL WASTE PIPING AND FITTINGS SHALL BE ABS, SCHEDULE 40 DWV (ASTM D2681).
  - VENT PIPING AND FITTINGS SHALL BE ABS, SCHEDULE 40 DWV (ASTM D2681).
  - ALL VENT PIPING SHALL HAVE A MINIMUM SLOPE OF 1/4" PER FOOT AND SHALL DRAIN TO FIXTURES.
  - ALL WASTE PIPING SHALL SLOPE AS FOLLOWS:
    - 3" AND SMALLER SHALL HAVE A SLOPE OF 1/4" PER FOOT
    - 4" AND LARGER SHALL HAVE A SLOPE OF 1/8" PER FOOT
  - PROVIDE EXTRA DEEP TRAP WITH "SURE SEAL" INLINE FLOOR DRAIN TRAP SEALERS ON ALL FLOOR DRAINS AND FLOOR SINKS.
  - SUPPORT PIPING AT MAXIMUM 4'-0" INTERVALS.

- WATER PIPING
- DOMESTIC WATER PIPING SHALL BE TYPE "L" COPPER TUBING ABOVE GROUND OR TYPE "K" BELOW GROUND WITH SOLDERED JOINTS USING LEAD FREE SOLDER, PROPERLY CLEANED, USING AN APPROVED FLUX.
  - SUPPORT PIPING AT MAXIMUM 5'-0" INTERVALS FOR PIPING UP TO 2" AND AT 8'-0" INTERVALS FOR 2 1/2" AND UP.
  - DOMESTIC HOT WATER TEMPERATURES SHALL BE AS FOLLOWS:
    - PUBLIC HAND WASHING FACILITIES - 120°F
    - SINKS - 120°F
    - SERVICE/MOP SINKS - 120°F
  - PROVIDE LEONARD POINT OF USE THERMOSTATIC MIXING VALVES MODEL 270-LF OR EQUAL AT MAXIMUM SET POINT OF 105°F AS FOLLOWS:
    - IN PUBLIC TOILET ROOMS
    - WASH FOUNTAINS
    - WASH SINKS

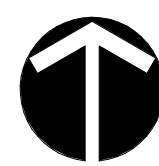
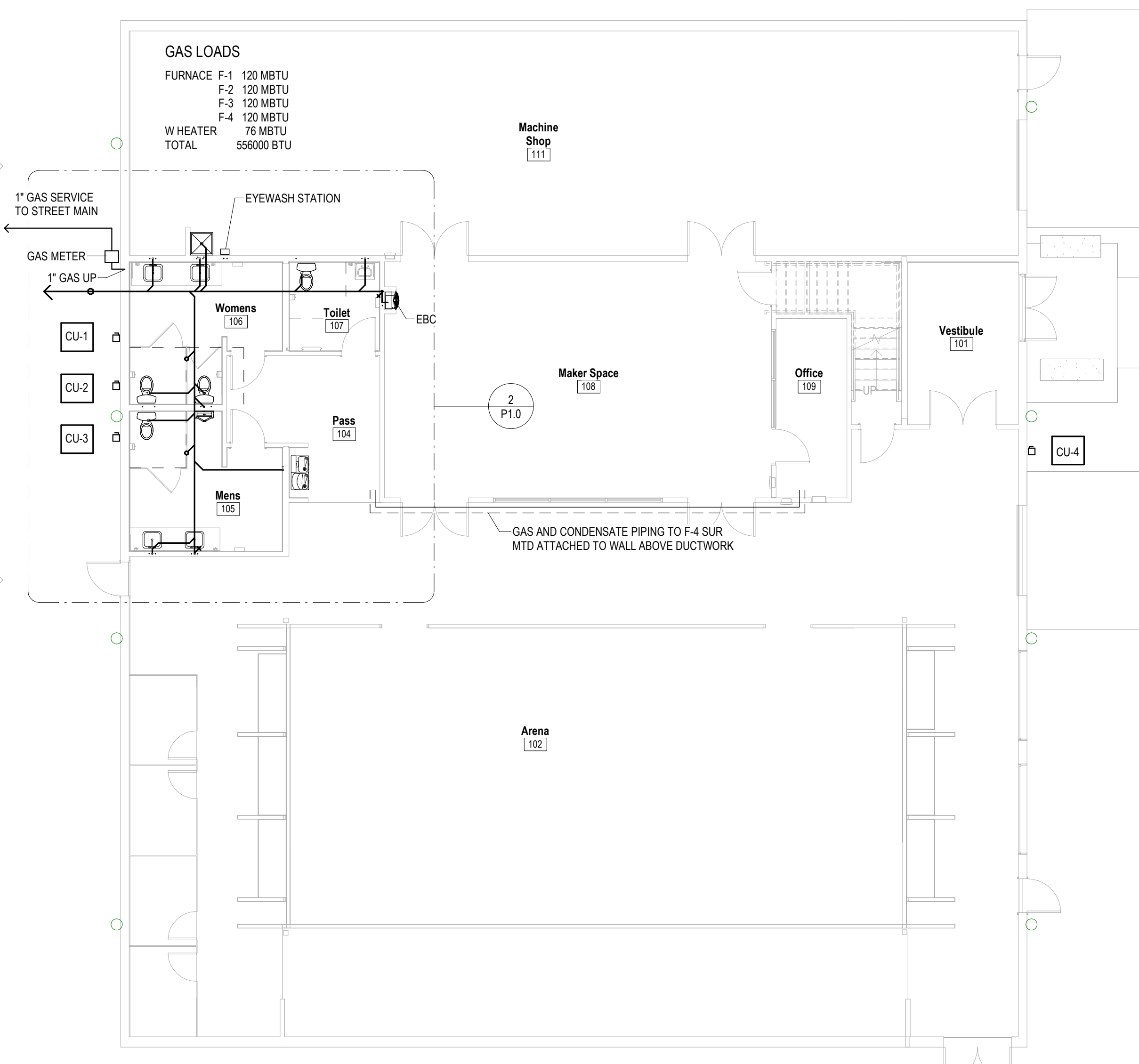
- NATURAL GAS PIPING
- BLACK STEEL, SCH 40, ASTM A-120, WITH MALLEABLE IRON THREADED FITTING
  - GAS PIPING TO BE PAINTED AND LABELED
  - MATERIALS AND INSTALLATION AS PER MPC-2015 AND IFGC-2015 (INTERNATIONAL FUEL GAS CODE)

- FIRESTOP
- PENETRATIONS FOR CABLES, CABLETRAYS, CONDUITS, PIPES, TUBES, COMBUSTION VENTS, AND EXHAUST VENTS, WIRES, AND SIMILAR ITEMS TO ACCOMMODATE ELECTRICAL, MECHANICAL, PLUMBING, AND COMMUNICATIONS SYSTEMS THAT PASS THROUGH A WALL, FLOOR, OR FLOOR/CEILING ASSEMBLY CONSTRUCTED AS A FIRE BARRIER SHALL BE PROTECTED BY A ACCORDANCE WITH ASTM E 814 OR ANSI / UL 1479.

- FLUSHING AND DISINFECTING POTABLE WATER SYSTEMS
- PRIOR TO BEING PLACED INTO SERVICE, ALL POTABLE WATER SYSTEMS SHALL BE FLUSHED AND DISINFECTED IN ACCORDANCE WITH MPC 2015, SECTION 610 "DISINFECTING POTABLE WATER SYSTEMS".

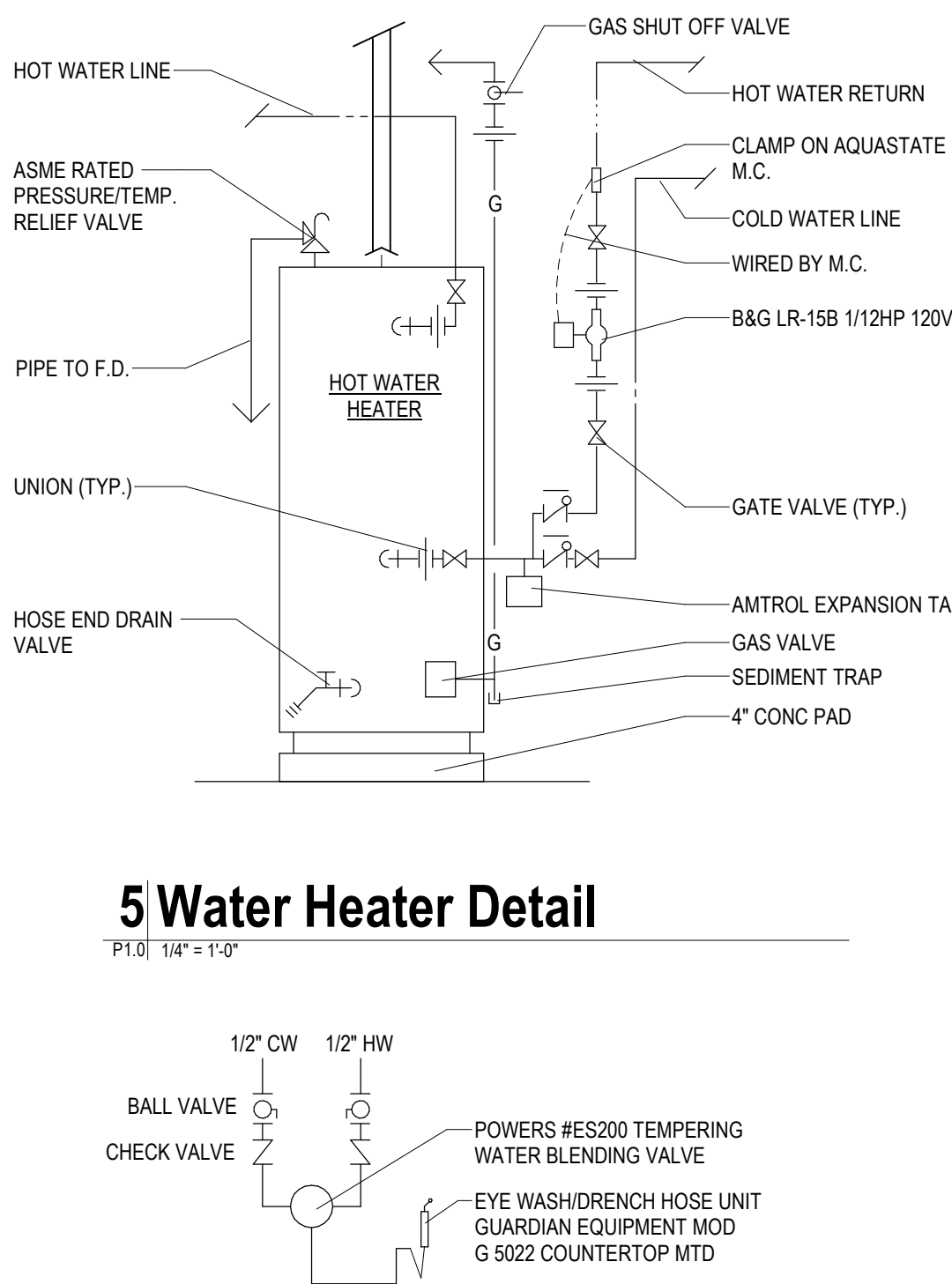
- TESTING
- CONTRACTOR SHALL PERFORM THE FOLLOWING TESTS IN ACCORDANCE WITH MPC 2015 SECTION 312 "TEST AND INSPECTIONS":
    - DRAINAGE AND VENT SYSTEMS - SECTION 312.2 OR 312.3
    - BUILDING SEWER - SECTION 312.6
    - WATER SUPPLY SYSTEMS - SECTION 312.5

| FIXTURE SCHEDULE |                                                                                                                                                                                                                                                                                                                                                                                                                             |
|------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| WC-1             | KOHLER MODEL #K-25077-RA (16 1/2") KINGSTON, TWO PIECE ELONGATED BOWEL 1.28 GPF, W/ FLUSH LEVER TO OPEN SIDE OF ROOM, ELONGATED TANK TYPE, SEAT - "BEMIS" NO. 1955SSTFR, WHITE, MCGUIRE NO. 2166CC CLOSET SUPPLY (1/2"C.W., 4"W., 2"V.)                                                                                                                                                                                     |
| WC-2             | KOHLER MODEL K-PR6057-T4D WHITE VITREOUS CHINA, ELONGATED TANK TYPE, SEAT - "BEMIS" NO. 1955SSTFR, WITH K-10T00N10 MACH TRIPOINT FLUSH VALVE, TOP SPUD, 1.28 GPF, BATTERY SENSOR ACTIVATED, PUSH BUTTON OVERRIDE AND POLISHED CHROME (1"C.W., 4"W., 2"V.)                                                                                                                                                                   |
| L-1              | KOHLER "KINGSTON" WALL HUNG 20"x18" CHINA, WHITE, NO. K2005-0, SLOAN SENSOR FAUCET NO.SF-2300-PLG-TTEE-CP-0.5GPM-MLM-FCT HARDWIRED DECK MTD POLISHED CHROME, PROFLO NO. PFGD101 GRID DRAIN DEARBORN BRASS TRAP NO.701-1 (PVC) MCGUIRE W/20" RISERS NO.2165CC W/ POINT OF USE TEMPERING VALVE (ASSE 1070), (1/2"C.W., 1/2"H.W., 1-1/2"W., 1-1/2"V.)<br>PROVIDE FLOOR-MOUNT CONCEALED ARM CARRIER EQUAL TO 'JOSAN' MOD. 17100 |
| L-2              | KOHLER "CAXTON" K-2210-N 19-1/4" OVAL UNDERMOUNT IN VITREOUS CHINA, WHITE, SLOAN OPTMA SENSOR FAUCET NO. EBF-615-4-BAT-BDM-CP-0.5GPM-MLM-FCT, PROFLO NO. PFGD101 GRID DRAIN DEARBORN BRASS TRAP NO.701-1 (PVC) MCGUIRE W/20" RISERS NO.2165CC W/ POINT OF USE TEMPERING VALVE (ASSE 1070), (1/2"C.W., 1/2"H.W., 1-1/2"W., 1-1/2"V.)                                                                                         |
| MB-1             | ZURN SERVICE SINK MODEL NO. Z1996-24-SD-BS-WG-HH-MH WITH MODEL NO. Z843M1-RC-XL WALL MOUNTED FAUCET WITH BRACKET AND PAIL HOOK (3/4"C.W., 3/4"H.W., 2"W., 1-1/2"V.)                                                                                                                                                                                                                                                         |
| FD-1             | 6" ROUND PVC FLOOR DRAIN ZURN FR06NI-CS-P 3 S-CC WITH ZN400BZ-VP STRAINER, AND WITH TRAP SEAL (3"W.)                                                                                                                                                                                                                                                                                                                        |
| WH-1             | A.O. SMITH "CYCLONE HE" COMMERCIAL GAS WATER HEATER MOD. NO. BTX-80 RECOVERY RATING - 86 GPH @ 100", 50 GAL. CAPACITY,76 MBTU NAT GAS, 94% EFFICIENT 3/4" H. & C. W., 3" PVC FLUE SIDEWALL VENTED. INSTALLED AS PER MANUFACTURES RECOMMENDATIONS.                                                                                                                                                                           |
| WHA              | MECHANICAL WATER HAMMER ARRESTOR. LOCATE & INSTALL PER MANUFACTURER'S RECOMMENDATIONS.                                                                                                                                                                                                                                                                                                                                      |
| MV               | WATTS MMV-M1, ASSE 1070 MIXING VALVE, 2 GPM @ 10 PSIG PD.                                                                                                                                                                                                                                                                                                                                                                   |
| AAV              | AIR ADMITTANCE VALVE - STUDOR MINI VENT                                                                                                                                                                                                                                                                                                                                                                                     |
| WH               | WOODFORD 65-C FREEZELESS WALL HYDRANT                                                                                                                                                                                                                                                                                                                                                                                       |
| CP-1             | HOT WATER RETURN CIRCULATING PUMP, ALL BRONZE, B & G #NBF-8S/LW, 120V/60HZ, 39 WATTS, AQUA-STAT, (1/2" SOLDERED COPPER CONN.), 5 GPM @ 5' HD.                                                                                                                                                                                                                                                                               |
| ET-1             | EXPANSION TANK, AMTROL ST-1, ASME RATED, 5 GALLON                                                                                                                                                                                                                                                                                                                                                                           |
| EWC              | DRINKING FOUNTAIN - LZSTLBWSSK ELKAY WALL MOUNT HIGHLOW HIGH EFFICIENCY VANDAL RESISTANT COOLER FILTERED REFRIGERATED STAINLESS 8.0 GPH 115V/60HZ/1 PHASE 5 AMP 260 WATTS                                                                                                                                                                                                                                                   |
| EBC              | BOTTLE FILLING STATION ELKAY ezH2O IN WALL BOTTLE FILLING STATION MOD LZWSMK STAINLESS STEEL WITH MOUNTING FRAME REFRIDGERATED 8 GPH 115V/60HZ/1 PHASE 1 AMP 370 WATTS                                                                                                                                                                                                                                                      |
| UR-1             | AMERICAN STANDARD "WASHBROOK" MOD 6590.001EC WASHOUT FLUSH ACTION URINAL 0.5 GPF, TOP SPUD, VITREOUS CHINA, WALL HUNG,WITH SLOAN ECOS 8186 BT-0.5 DUAL FILTERED FIXED BYPASS DIAPHRAGM FLUSH VALVE, 0.5 GPF, TOP SPUD, BATTERY SENSOR ACTIVATED, AND POLISHED CHROME                                                                                                                                                        |
| BFP              | WATTS 909QTS WITH 909ELF AND 909AGF 1013 ASSE RATED RZP-BFP WITH ELBOW FITTING ON THR RELIEF VALVE PIPED TO FUNNEL DRAIN APPROVED FOR VERTICLE INSTALLATION                                                                                                                                                                                                                                                                 |



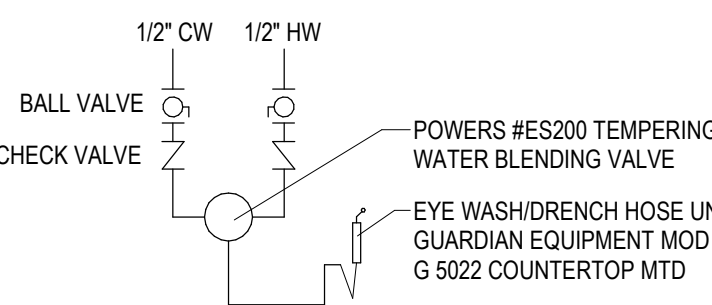
1 First Floor Plumbing Plan

P1.0 1/8" = 1'-0"



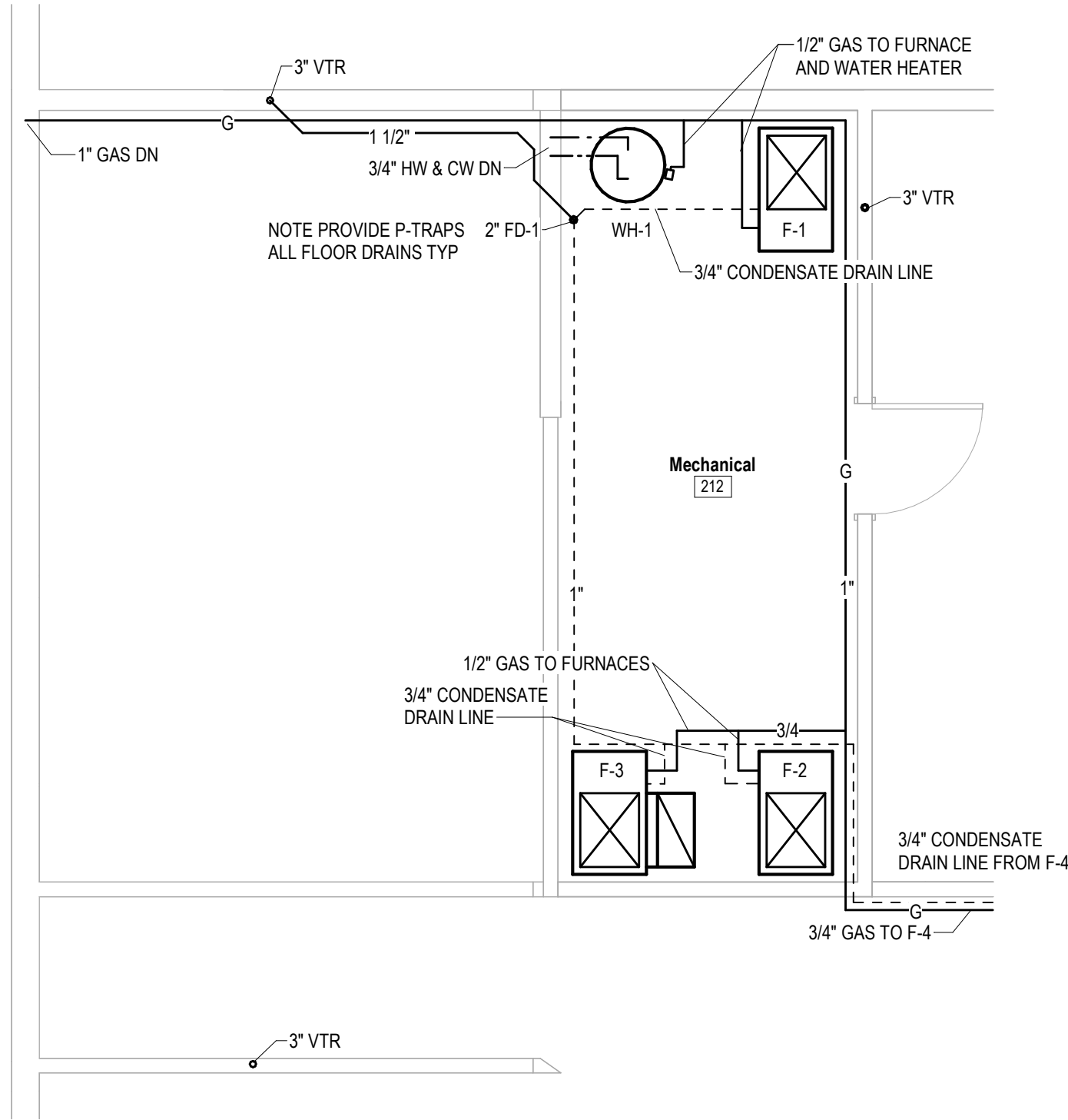
5 Water Heater Detail

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



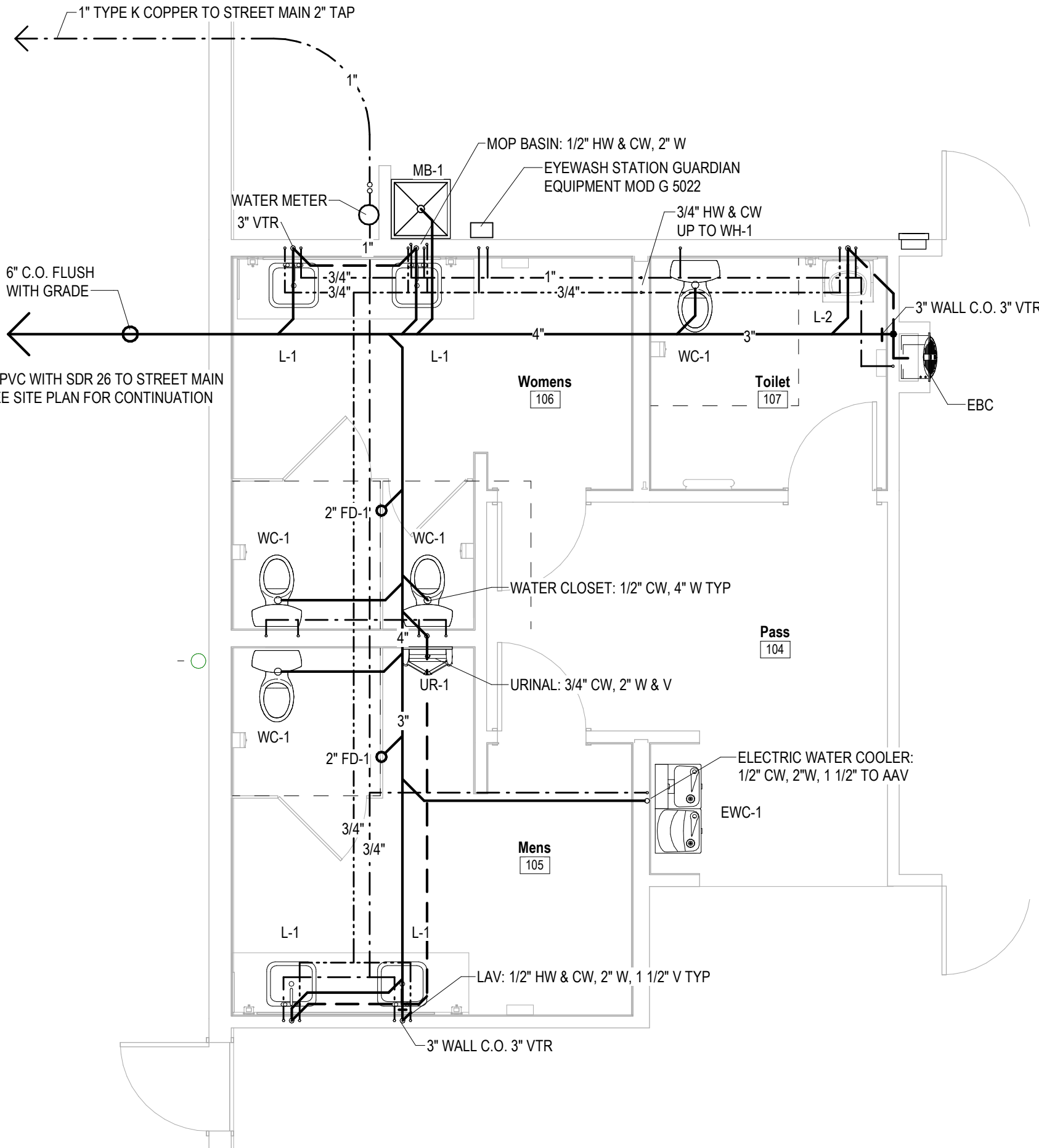
6 Eyewash Detail

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"

SEAL OF ARCHITECT

SEDGEWICK + FERWEDA ARCHITECTS

410 East Court Street Flint, MI 48503  
810-238-9647 | www.sfarch.us

Good clients + Good design + Great architecture

ARCHITECT



REVISIONS

| Date | Description |
|------|-------------|
|      |             |
|      |             |
|      |             |
|      |             |
|      |             |

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

Drawing  
Plumbing Plan

DRAWN BY: SJS  
CHECKED BY: JSF

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

P1.0

HVAC NOTES

SCOPE

1. PROVIDE ALL MATERIALS AND EQUIPMENT INDICATED ON THESE DRAWINGS. THE CONTRACTOR IS RESPONSIBLE FOR ALL MATERIALS AND LABOR TO SATISFY A COMPLETE AND WORKING SYSTEM WHETHER SPECIFIED OR IMPLIED
2. WORK TO BE PERFORMED UNDER THE MECHANICAL SPECIFICATIONS AND DRAWINGS CONSISTS OF FURNISHINGS ALL LABOR AND MATERIAL FOR THE INDICATED SPACE INCLUDING BUT NOT LIMITED TO:
  - A. EXHAUST FANS AND ACCESSORIES
  - B. DUCTWORK, DIFFUSERS, AND ACCESSORIES
3. CONTRACTOR SHALL COORDINATE ALL WORK WITH OTHER TRADES TO AVOID CONFLICT AND TO FACILITATE THE WORK WITHOUT CAUSING UNNECESSARY DELAYS. IMMEDIATELY REPORT ANY DISCREPANCIES, IN WRITING, TO THE ENGINEER ALL CHANGES AND/OR ALTERATIONS REQUIRE REVIEW AND APPROVAL BY THE ENGINEER.

GENERAL

1. ALL EQUIPMENT SHALL BE INSTALLED IN A WORKMAN LIKE MANNER MEETING THE ACCEPTED STANDARDS OF THE HVAC INDUSTRY. WORK SHALL BE PERFORMED BY FIRMS AND CRAFTSMAN REGULARLY ENGAGING IN WORK OF THIS NATURE.
2. ALL MATERIALS AND EQUIPMENT SHALL BE NEW AND SHALL BE OF THE TYPE AND CAPACITIES INDICATED ON THE DRAWINGS, OR APPROVED EQUAL AND/OR SUBSTITUTIONS.
3. ALL EQUIPMENT AND MATERIALS PROVIDED UNDER THESE SPECIFICATIONS SHALL BE LIMITED TO PRODUCTS REGULARLY PRODUCED AND RECOMMENDED FOR THE PROPOSED SERVICE.
4. SUBSTITUTIONS AND/OR EQUAL PRODUCTS MUST BE APPROVED IN WRITING BY THE ENGINEER PRIOR TO INSTALLATION.
5. GUARANTEE IN WRITING ALL MATERIALS, EQUIPMENT, AND WORKMANSHIP FOR A PERIOD OF ONE YEAR FROM THE DATE OF THE OWNERS ACCEPTANCE. GUARANTEE SHALL BE UNCONDITIONAL.
6. DO NOT SCALE THIS DRAWING FOR EXACT DIMENSIONS. VERIFY ALL FIGURES, CONDITIONS, DIMENSIONS, ETC. AT THE JOB SITE.
7. ALL EXTERIOR WALL OPENINGS TO BE PROPERLY CAULKED AND SEALED WITH LOW VOLATILE ORGANIC COMPOUND SEALANT TO PREVENT INFILTRATION OF OUTSIDE AIR INTO ROOMS.
8. CONTRACTOR SHALL INSTALL EXHAUST FANS, INCLUDING ALL DUCTWORK, BACK DRAFT DAMPERS, CAPS SCREENING, AND RELATED HARDWARE TO PROVIDE EXHAUST TO EXTERIOR OF BUILDINGS.
9. LOCATIONS OF EXISTING EQUIPMENT, INCLUDING PIPING, DUCTWORK, DIFFUSERS, AND REGISTERS, HAVE BEEN TAKEN FROM THE BEST AVAILABLE INFORMATION. THE DRAWINGS ARE INTENDED TO BE USED FOR INFORMATIONAL PURPOSES ONLY. THE CONTRACTOR IS NOT TO SCALE DRAWINGS OR ASSUME THAT ALL EQUIPMENT IS SHOWN. THE CONTRACTOR SHALL VISIT THE SITE TO DETERMINE THE TOTAL EXTENT OF REMOVALS AND NEW WORK AS DIAGRAMED ON THE PLANS. EXTRA COMPENSATION FOR FAILURE TO COMPLY WITH THE ABOVE STATEMENTS WILL NOT BE CONSIDERED.
10. CONTRACTORS SHALL VISIT THE PROJECT PRIOR TO SUBMITTAL OF PROPOSAL AND THOROUGHLY FAMILIARIZE THEMSELVES WITH EXISTING CONDITIONS AND CONDITIONS THAT WILL AFFECT THE PERFORMANCE OF THEIR WORK. FAILURE TO DO SO WILL NOT ENTITLE THEM TO ANY ADDITIONAL COMPENSATION FOR PROVIDING A COMPLETE AND APPROVED SYSTEM.
11. CONTRACTOR SHALL REFER TO ALL DRAWINGS FOR INFORMATION, SPECIFICATIONS, AND/OR INSTRUCTIONS RELATIVE TO THE PROJECT SCOPE OF WORK AND PROVIDE WORK/COORDINATION REQUIRED TO FACILITATE OTHER CONTRACTORS.
12. THERMOSTATS SHALL BE MOUNTED SO THAT OPERABLE PARTS ARE LOCATED NO HIGHER THAN 48" ABOVE FINISHED FLOOR. IF THE REACH IS OVER AN OBSTRUCTION BETWEEN 20" AND 25" IN DEPTH THE MAXIMUM HEIGHT SHALL BE 48"
13. CONTRACTOR SHALL PROVIDE LOCKABLE METAL, VENTED, THERMOSTAT COVERS FOR ALL THERMOSTATS.
14. MECHANICAL CONTRACTOR SHALL PROVIDE CERTIFIED CHECK, TEST, AND START UP SERVICES. TO PROVIDE DRAWINGS OF THE INSTALLED SYSTEM, OWNER TRAINING OF THE CONTROL SYSTEM OPERATION AND EQUIPMENT WARRANTIES.
15. MAINTAIN 10 FT SEPARATION BETWEEN AIR INTAKES AND EXHAUST AIR OR PLUMBING VENTS. FRESH AIR INTAKES TO BE A MIN 3 FT ABOVE ROOF
16. EXHAUST FANS TO BE MANUALLY STARTED AND STOPPED SWITCHED BY ELECTRICAL CONTRACTOR

DEMOLITION

1. CONTRACTOR IS RESPONSIBLE FOR SELECTIVE DEMOLITION IN ALL AREAS AS REQUIRED TO ACCOMMODATE THE PROJECT SCOPE OF WORK. ALL SYSTEMS AND ANCILLARY COMPONENTS MADE OBSOLETE SHALL BE COMPLETELY REMOVED AND DISPOSED. INSTALL BY-PASS WHERE REQUIRED TO MAINTAIN THE INTEGRITY OF OVERALL SYSTEMS REMAINING AND SERVING AREAS OUTSIDE THE SCOPE OF WORK AREA.
2. CONTRACTOR SHALL PERFORM A SITE INSPECTION TO ESTABLISH EXTENT OF DEMOLITION PRIOR TO BID.

CODES AND STANDARDS

1. ALL WORK SHALL BE PERFORMED IN STRICT COMPLIANCE WITH THE LATEST EDITION OF INTERNATIONAL MECHANICAL CODE, MICHIGAN MECHANICAL CODE-2015, MICHIGAN ENERGY CODE ASHRA 90.1 2015, NFPA, SMACNA, LOCAL CODES, AND REGULATIONS GOVERNING WORK OF THIS NATURE.
2. CONTRACTOR SHALL SECURE ALL PERMITS OR APPLICATIONS, AND PAY ANY AND ALL FEES AS REQUIRED.

COORDINATION

1. THIS CONTRACTOR SHALL COORDINATE ALL WORK WITH A COMPLETE SET OF M/P/E AND ARCHITECTURAL DESIGN DRAWINGS. IMMEDIATELY REPORT ANY DISCREPANCIES TO THE ENGINEERS OFFICE.
2. CONTRACTOR IS TO COORDINATE AND PROVIDE FOR INTERIOR WALL OPENINGS FOR DUCT PENETRATIONS.
3. CONTRACTOR IS TO COORDINATE WITH ELECTRICAL CONTRACTOR FOR LOCATIONS OF WIRING FOR EACH EXHAUST FAN.
4. CONTRACTOR SHALL COORDINATE AND PROVIDE FOR UNDERCUTTING AND/OR LOUVRE DOOR AS INDICATED TO ALLOW ADEQUATE AIR RETURN TO AIR HANDLING UNIT.
5. CONTRACTOR TO SUPPLY AND INSTALL ALL CONTROL WIRING AND THERMOSTATS AS REQUIRED.

MAINTENANCE

1. CONTRACTOR SHALL SERVICE EXISTING HVAC EQUIPMENT TO ASSURE OPERATIONS IS IN COMPLIANCE WITH MANUFACTURERS SPECIFICATIONS, CLEAN UNIT, REPLACE FILTERS, AND RECHARGE REFRIGERANT AS NEEDED.

DUCTWORK

1. SMOOTH TURN RADIUS DUCTWORK OF DOUBLE THICKNESS TURNING VANES SHALL BE USED THROUGHOUT WHERE FLOW EXCEEDS 500 CFM.
2. ALL JOINTS TO BE SEALED WITH DUCT MASTIC AND TAPE IN ACCORDANCE WITH SMACNA STANDARDS CLASS 'C'.
3. ALL DUCT DIMENSIONS SHOWN ARE NET INSIDE VALUES. DIMENSIONS MAY BE CHANGED AS LONG AS NET FREE FACE AREA IS MAINTAINED.
4. SUPPORT DUCTWORK AT A MAXIMUM INTERVAL OF 16'-0" AND NO MORE THAN 2'-0" FROM FITTINGS AND BRANCH TAKEOFFS.
5. ALL BRANCH DUCTS SHALL HAVE A VOLUME DAMPER.
6. ALL BRANCH DUCT TAKEOFFS SHALL BE MADE WITH 45° ENTRY TYPE FITTINGS.
7. CONTRACTOR SHALL BE CAREFUL SO AS NOT TO KINK OR COLLAPSE FLEXIBLE DUCT.
8. USE OF "FLEX" DUCTWORK SHALL BE LIMITED TO NO MORE THAN 6' LINEAR FEET PER RUN UNLESS OTHERWISE INDICATED.
9. ALL DUCTWORK GALVANIZED SHEETMETAL SUPPLY AND RETURN AIR DUCT 2" WG EXHAUST DUCT 1" WG SMACNA CONSTRUCTION STANDARDS

INSULATION

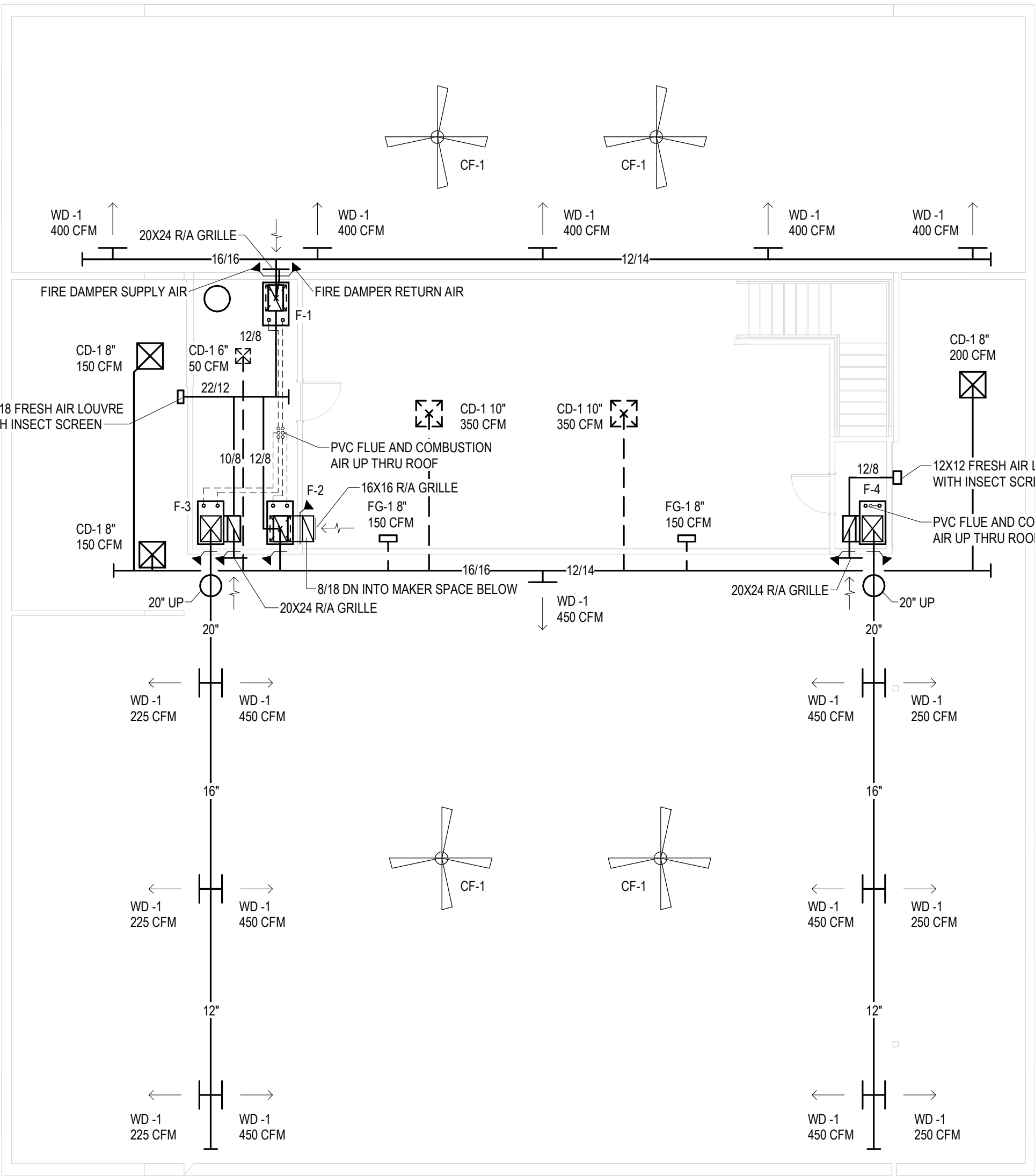
1. CONCEALED SUPPLY / RETURN / OUTSIDE AIR DUCTWORK SHALL BE WRAPPED WITH 1 1/2" THICK FIBERGLASS CLOTH INSULATION WITH A MINIMUM INSTALLED R VALUE OF 4.2. SYSTEM SHALL INCLUDE FRK EXTERIOR. EXPOSED DUCTWORK TO OCCUPIED SPACES SHALL BE PROVIDED WITH 1" BARRIER TO PREVENT CONDENSATION. INSULATION SHALL HAVE A FLAME SPREAD RATING OF 25 AND SMOKE DEVELOPED RATING OF 50.

TESTING AND BALANCING AIR SYSTEMS

1. CONTRACTOR SHALL PROVIDE FOR BALANCING OF AIR SYSTEMS TO ACHIEVE VALUES SHOWN ON THE DRAWINGS.
2. PROVIDE DOCUMENTATION TO ENGINEERS OFFICE BY AN INDEPENDENT NEBB OR AABC CERTIFIED TESTAND BALANCE AGENCY AND APPROVAL INDICATING RESULTING AIR FLOWS FROM PERFORMANCE OF BALANCING. RE-BALANCE SYSTEM AS REQUIRED TO SATISFY SYSTEM REQUIREMENTS.

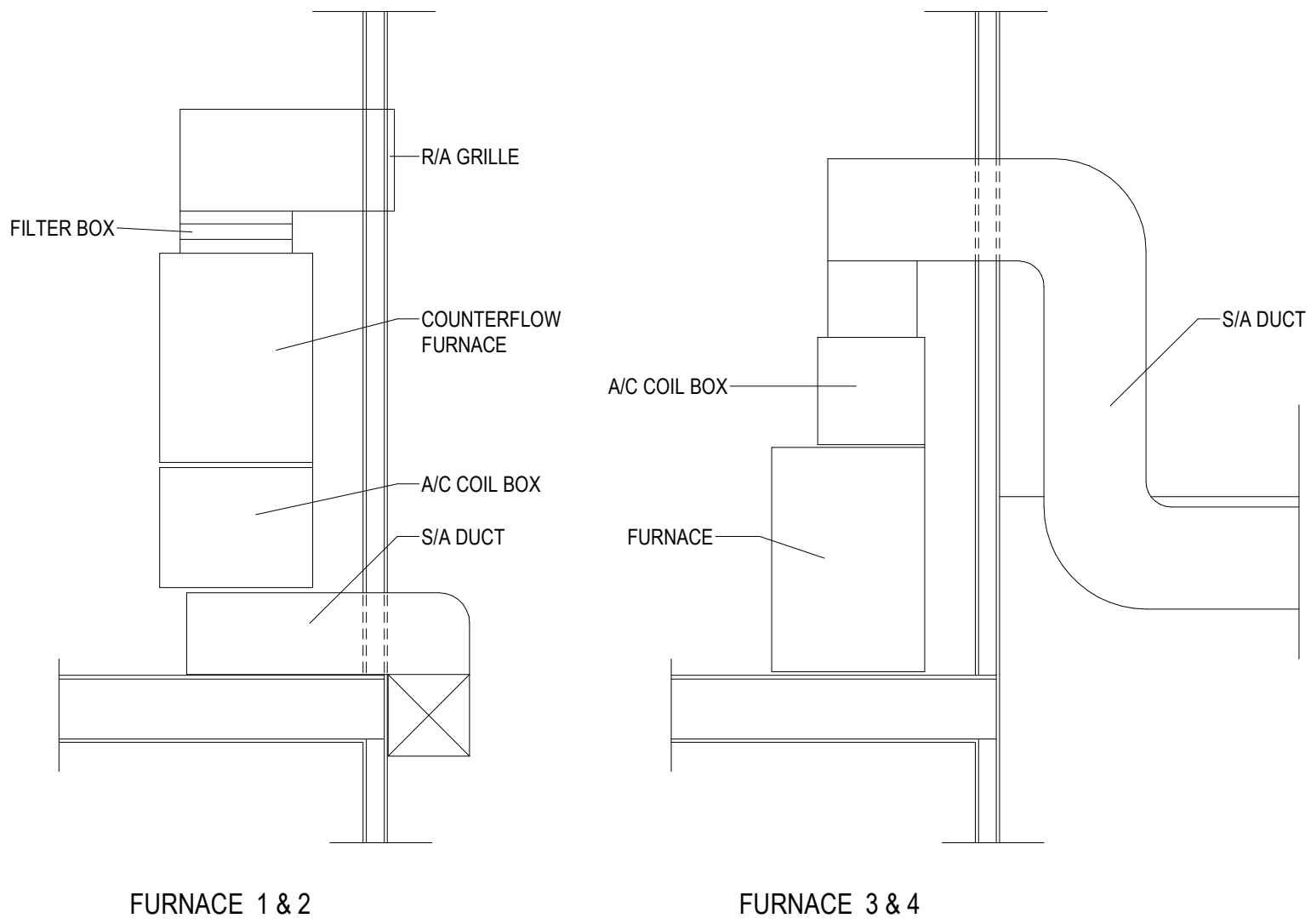
FIRESTOP

1. PENETRATIONS FOR CABLES, CABLETRAYS, CONDUITS, PIPES, TUBES, COMBUSTION VENTS, AND EXHAUST VENTS, WIRES, AND SIMILAR ITEMS TO ACCOMMODATE ELECTRICAL, MECHANICAL, PLUMBING, AND COMMUNICATIONS SYSTEMS THAT PASS THROUGH A WALL, FLOOR, OR FLOOR/CEILING ASSEMBLY CONSTRUCTED AS A FIRE BARRIER SHALL BE PROTECTED BY A FIRESTOP SYSTEM OR DEVICE. THE FIRESTOP SYSTEM OR DEVICE SHALL BE TESTING IN ACCORDANCE WITH ASTM E 814 OR ANSI / UL 1479.



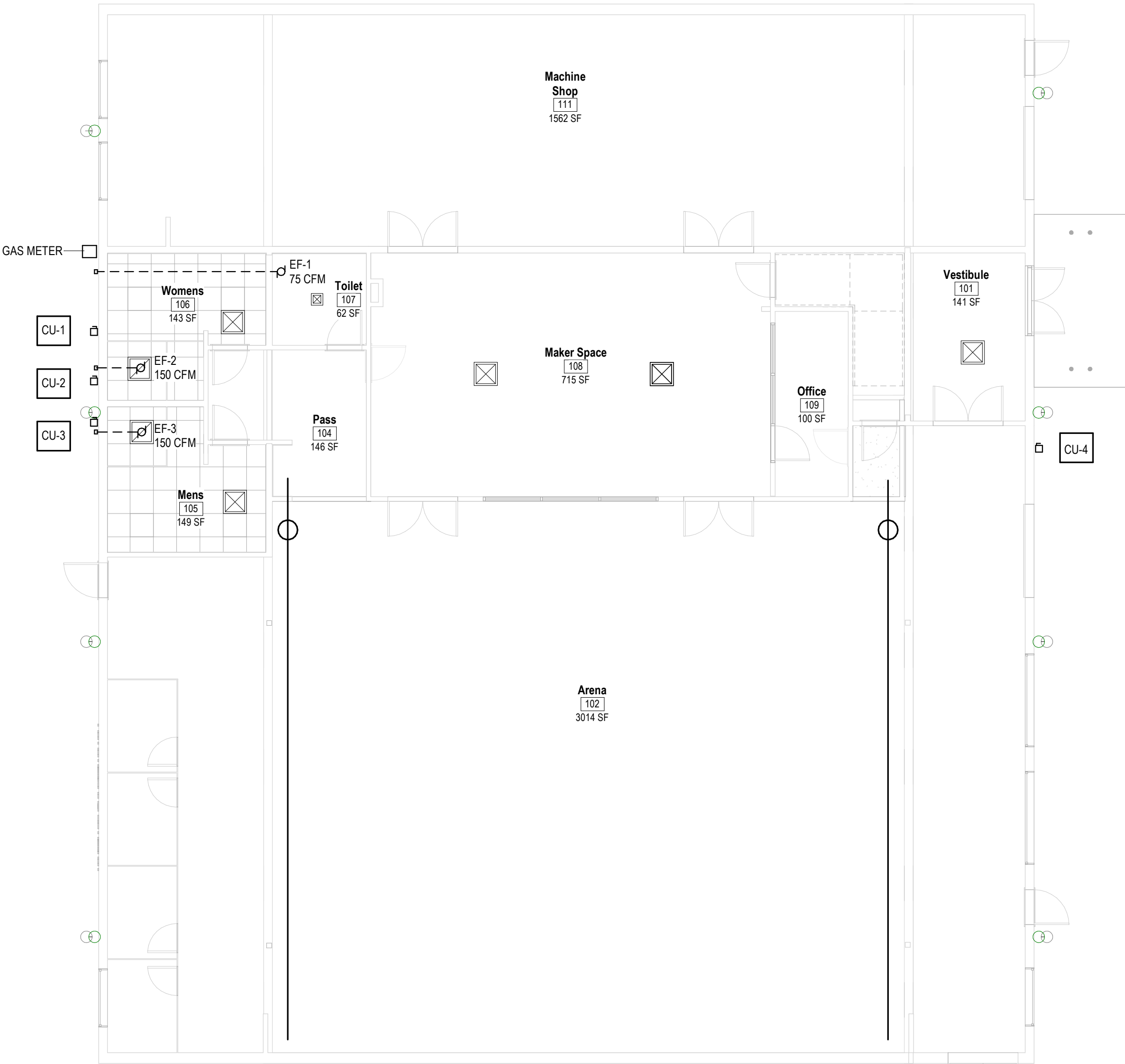
2 Second Floor Mechanical Plan

1/16" = 1'-0"



4 Furnace Elevation

3/8" = 1'-0"



1 Mechanical Plan

1/16" = 1'-0"

EQUIPMENT SCHEDULE

- F FURNACE EQUAL TO 'GOODMAN' GM9C96 1205DNA UP FLOW, VARIABLE SPEED, TWO STAGE HEATING, 96 AFUE, 120 MBTU HEATING, NAT GAS, 2000 CFM NOMINAL, 1 HP AT 1075 RPM, 115/160 13.3 MCA 20 AMP BREAKER WITH ENCASED COIL, PROVIDE 1" PVC CONDENSATE PIPING FROM A/C COIL DRAIN PAN AND CONDENSING FURNACE TO FLOOR DRAIN, EXTERIOR MTD. 2" MERV-6 FILTER BANK
- CU A/C CONDENSER 5 TON EQUAL TO 'GOODMAN' GSX16 0801F NOMINAL COOLING 54000 BTU, 230/160 23.6 MCA 50 AMP 2-P CIRCUIT BREAKER, R-410A REFRIGERANT, AND PAINTED HOUSING
- CF CEILING FAN BIG ASS FANS MODEL BASIC 6, 8 FT DIAMETER 1 HP 208/230/60/1 0.75 KW WITH STANDARD CONTROLLER

VENTILATION SCHEDULE

- WD, MTL SHOP: 1565 SQ FT LESS CIRCULATION = 1252 SQ FT  
OCCUPANCY: 20/1000 = 25 PERSONS X 10 CFM = 250 CFM  
1252 SQ FT X 0.18 = 225 CFM
- Voz = 475 CFM  
ZONE OUTDOOR AIRFLOW Voz = Vbz / Ez Voz = 475/1 OR 475 CFM  
Ez = CEILING SUPPLY AND RETURN MMC TABLE 403.3.1.2 NOTE g  
Vol = SINGLE ZONE SYSTEM (1) X Voz (475 CFM) OR 475 CFM
- TOTAL FURNACE-1 OUTSIDE AIR 475 CFM
- CLASSROOM: 717 SQ FT OCCUPANCY: 35/1000 = 25 PERSONS X 10 CFM = 250 CFM  
717 SQ FT X 0.12 = 86 CFM
- OFFICE: 100 SQ FT OCCUPANCY: 5/1000 = 1 PERSONS X 5 CFM = 5 CFM  
100 SQ FT X 0.06 = 6 CFM
- CORRIDOR: 146 SQ FT X 0.06 = 9 CFM
- TOILETS EXHAUST: 5 FIXTURES AT 70 CFM = 350 CFM
- Voz = 356 CFM  
ZONE OUTDOOR AIRFLOW Voz = Vbz / Ez Voz = 356/1 OR 356 CFM  
Ez = CEILING SUPPLY AND RETURN MMC TABLE 403.3.1.2 NOTE g  
Vol = SINGLE ZONE SYSTEM (1) X Voz (356 CFM) OR 356 CFM
- TOTAL FURNACE-2 OUTSIDE AIR 356 CFM
- ARENA: 2958 SQ FT LESS CIRCULATION = 2366 SQ FT / 2 = 1183 SQ FT  
OCCUPANCY: 35/1000 = 41 PERSONS X 10 CFM = 410 CFM  
1183 SQ FT X 0.06 = 71 CFM
- Voz = 481 CFM  
ZONE OUTDOOR AIRFLOW Voz = Vbz / Ez Voz = 481/1 OR 481 CFM  
Ez = CEILING SUPPLY AND RETURN MMC TABLE 403.3.1.2 NOTE g  
Vol = SINGLE ZONE SYSTEM (1) X Voz (481 CFM) OR 481 CFM
- TOTAL FURNACE-3 & 4 OUTSIDE AIR 481 CFM

SEAL OF ARCHITECT

SEDGEWICK + FERWEDA ARCHITECTS

410 East Court Street Flint, MI 48503  
810-238-9647 | www.sfarch.us

Good clients + Good design + Great architecture

ARCHITECT



REVISIONS

| Date | Description |
|------|-------------|
|      |             |
|      |             |
|      |             |
|      |             |
|      |             |
|      |             |
|      |             |

Project

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

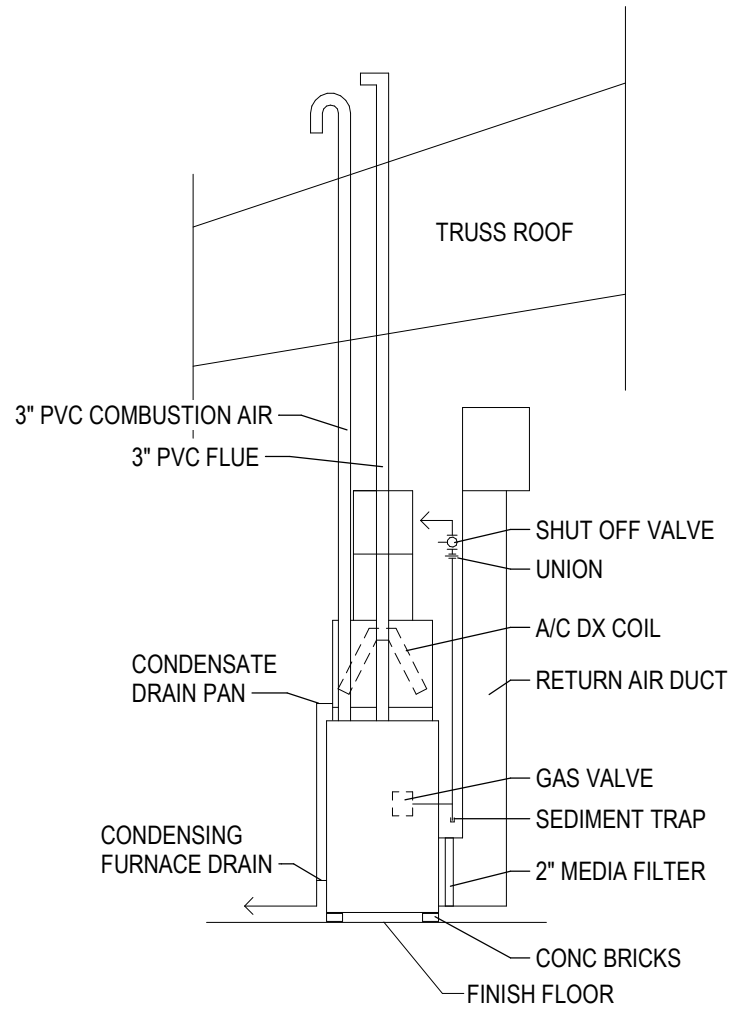
Drawing

Mechanical Plan

DRAWN BY: SJS  
CHECKED BY: JSF

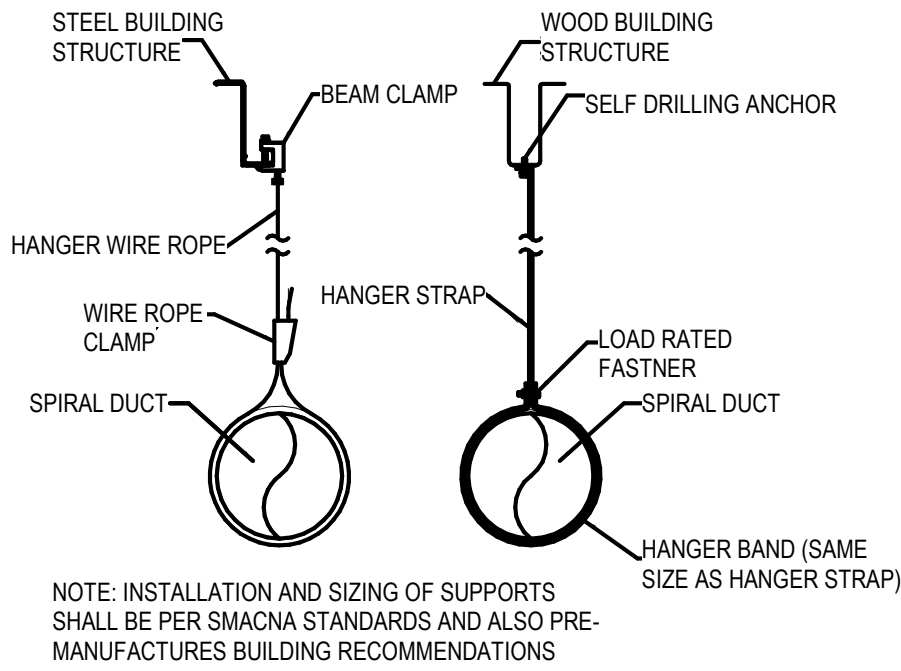
PROJECT NUMBER 25-028  
DATE JULY 29, 2026  
SCALE As indicated  
SHEET NUMBER

M1.0



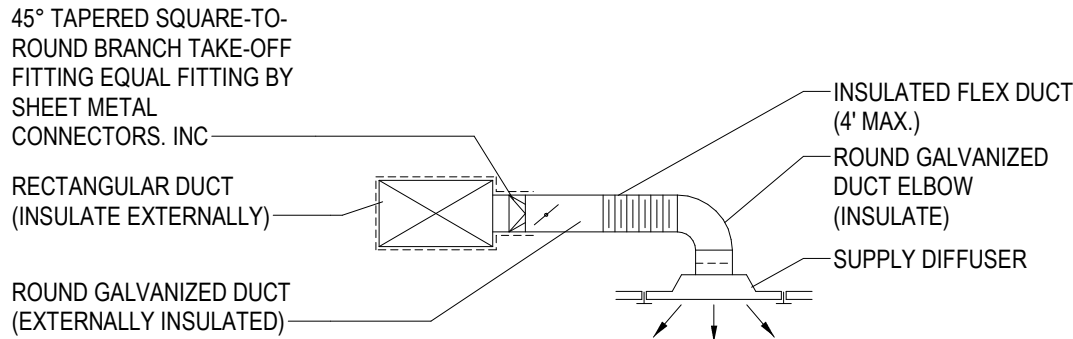
4 Furnace Detail

M2.0 | 1/4\"/>

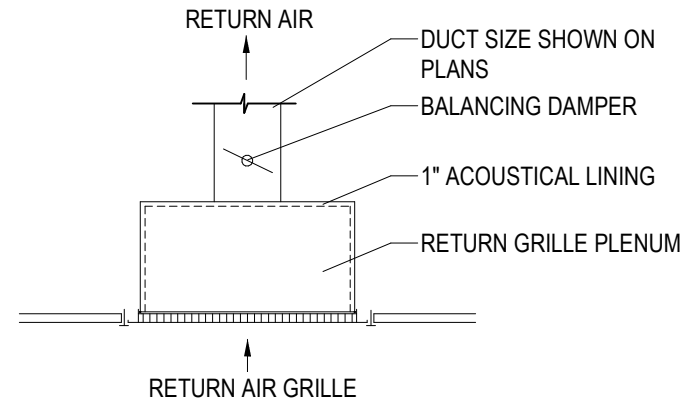
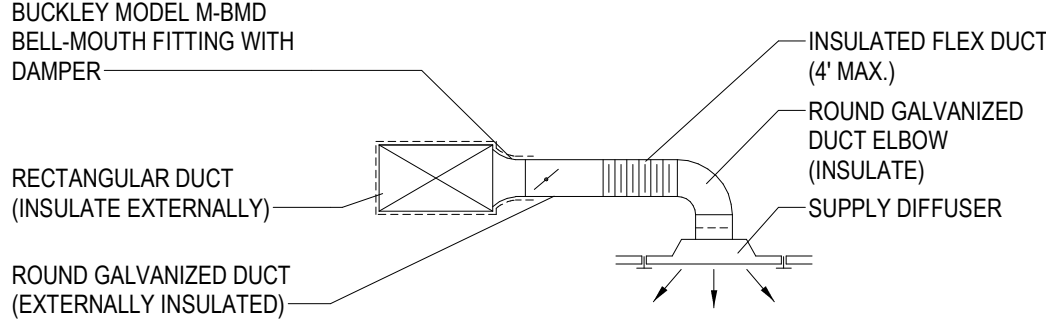


TYPICAL SPIRAL DUCT  
HANGER SUPPORT

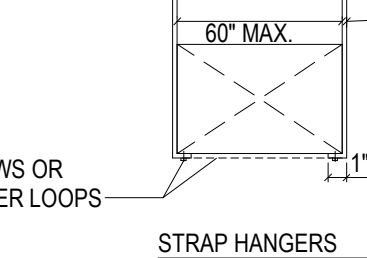
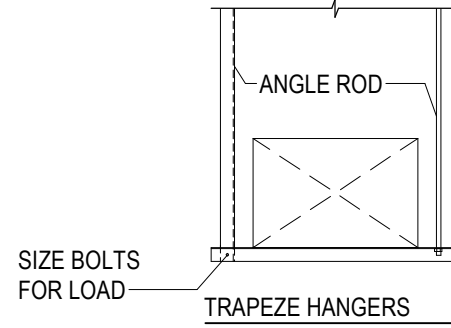
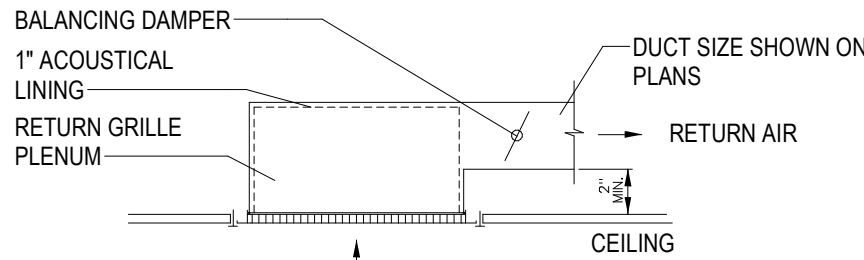
NOTE: INSTALLATION AND SIZING OF SUPPORTS  
SHALL BE PER SMACNA STANDARDS AND ALSO PRE-  
MANUFACTURES BUILDING RECOMMENDATIONS



TYPICAL ALLOWABLE SUPPLY AIR  
TAKE-OFF DETAILS



RETURN AIR GRILLE DETAIL



TYPICAL DUCT HANGERS

NOTES:  
1. REINFORCEMENT MAY BE USED FOR  
ATTACHMENT IF IT QUALIFIES FOR BOTH DUTIES.  
2. DO NOT EXCEED ALLOWABLE LOAD LIMITS.

3 Mechanical Details

M2.0 | 1/4\"/>

ABBREVIATIONS

|      |                           |       |                            |
|------|---------------------------|-------|----------------------------|
| AD   | ACCESS DOOR               | RZP-  | REDUCED ZONE BACKFLOW      |
| AFF  | ABOVE FINISHED FLOOR      | BFP   | PREVENTER                  |
| ASR  | AUTOMATIC SPRINKLER RISER | SK    | SINK                       |
| B    | BOILER                    | SA    | SUPPLY AIR                 |
| BDD  | BACKDRAFT DAMPER          | SAD   | SUPPLY AIR DIFFUSER        |
| CA   | COMBUSTION AIR            | SAG   | SUPPLY AIR GRILLE          |
| CI   | CAST IRON                 | SHR   | SHOWER                     |
| CO   | CLEAN OUT                 | MS    | MOP SINK                   |
| CU   | CONDENSING UNIT           | TAG   | TRANSFER AIR GRILLE        |
| CP   | CIRCULATING PUMPS         | TH    | THERMOMETER                |
| CONN | CONNECTION                | UH    | UNIT HEATER                |
| CVB  | CONSTANT VOLUME BOX       | UR    | URINAL                     |
| EAG  | EXHAUST AIR GRILLE        | VD    | VOLUME DAMPER              |
| EC   | ELECTRICAL CONTRACTOR     | VTR   | VENT THROUGH ROOF          |
| EF   | EXHAUST FAN               | WC    | WATER CLOSET               |
| EWC  | ELECTRIC WATER COOLER     | WCO   | WALL CLEAN OUT             |
| EWB  | ELECTRIC WALL HEATER      | WH    | WATER HEATER               |
| EXH  | EXHAUST                   | WV    | WASTE/VENT                 |
| F    | FURNACE                   | BPW   | BED PAN WASHER             |
| FD   | FLOOR DRAIN               | TCP   | TEMPERATURE CONTROL PANEL  |
| FLR  | FLOOR                     | DWV   | DRAINAGE WASTE AND VENT    |
| FP   | FREEZE PROOF              | WB    | WATER BOX                  |
| FS   | FLOOR SINK                | F.U   | FIXTURE UNITS DRAINAGE     |
| FTFD | FUNNEL TYPE FLOOR DRAIN   | GV    | GATE VALVE                 |
| GC   | GENERAL CONTRACTOR        | GLV   | GLOBE VALVE                |
| L    | LAVATORY                  | H.B   | HOSE BIBB                  |
| LD   | LINEAR DIFFUSER           | H.C   | HOSE CABINET               |
| LT   | LAUNDRY TUB               | HYD   | HYDRANT                    |
| MC   | MECHANICAL CONTRACTOR     | H.O   | HUB OUTLET                 |
| OA   | OUTSIDE AIR               | I.E   | INVERT ELEVATION           |
| PG   | PRESSURE GAUGE            | M.H   | MANHOLE                    |
| PH   | PHYSICALLY HANDICAPPED    | N.I.C | NOT IN CONTRACT            |
| PRW  | PRESSURE REGULATING VALVE | R.C   | ROOF CONDUCTOR             |
| RA   | RETURN AIR                | R.D   | ROOF DRAIN                 |
| RAG  | RETURN AIR GRILLE         | TYP.  | TYPICAL                    |
| RH   | RADIANT HEATER            | W     | WASTE                      |
| RS   | ROOF SUMP                 | ERV   | ENERGY RECOVERY VENTILATOR |
| RTU  | ROOFTOP UNIT              | PH    | PHYSICALLY HANDICAPPED     |

MECHANICAL LEGEND

|       |                        |
|-------|------------------------|
| ---   | COLD WATER             |
| ---   | HOT WATER              |
| ---   | HOT WATER RETURN       |
| -G-   | NATURAL GAS            |
| -L-   | LIQUID (REFRIGERANT)   |
| -S-   | SUCTION (REFRIGERANT)  |
| -SAN- | SANITARY               |
| -ST-  | STORM                  |
| -V-   | VENT                   |
| FP    | FIRE PROTECTION        |
| ---   | EXISTING               |
| ---   | DEMOLISHED             |
| ---   | NEW                    |
| ---   | RETURN GRILLE          |
| ---   | SUPPLY DIFFUSER        |
| ---   | FIRE DAMPER HORIZONTAL |
| ---   | FIRE DAMPER VERTICAL   |
| ---   | VOLUME DAMPER          |
| ---   | SMOKE/FIRE DAMPER      |
| ---   | BALL VALVE             |
| ---   | CHECK VALVE            |
| ---   | CONTROL VALVE          |
| ---   | EXPANSION JOINT        |
| ---   | UNION                  |
| ---   | GATE VALVE             |
| ---   | SOLENOID VALVE         |
| ---   | EXPANSION JOINT        |
| ---   | FLOW SWITCH            |
| ---   | MOTORIZED DAMPER       |
| ---   | SENSOR                 |
| ---   | THERMOSTAT             |
| ---   | SMOKE DETECTOR         |
| ---   | THERMOMETER            |

EXHAUST FAN SCHEDULE

COMMENTS:

1. PROVIDE WITH ELECTRONICALLY COMMUTATED MOTOR WITH CONSTANT CFM ADAPTIVE, VARIABLE SPEED TECHNOLOGY PROGRAMMED TO OVERCOME THE STATIC PRESSURE ASSOCIATED WITH COMMON RESIDENTIAL INSTALLATIONS SCENARIOS.

2. PROVIDE WIT WALL CAP INCLUDING BIRDSCREEN AND BACKDRAFT DAMPER.

| TAG    | BASIS OF DESIGN |            | CFM | E.S.P. | FAN SPEED | DRIVE TYPE | SONES | ELECTRICAL DATA |         | DISCONNECT BY |        | VFD | CONTROL      | COMMENTS |
|--------|-----------------|------------|-----|--------|-----------|------------|-------|-----------------|---------|---------------|--------|-----|--------------|----------|
|        | MANUFACTURER    | MODEL      |     |        |           |            |       | WATTS           | VOLTAGE | M.T.C.        | E.T.C. |     |              |          |
| EF-1   | GREENHECK       | SP-LP0511  | 80  | 0.28   | 831       | DIRECT     | 2     | 11              | 120/1   |               |        |     | LOCAL SWITCH | 1, 2     |
| EF-2,3 | GREENHECK       | SP-B150-QD | 150 | 0.28   | 1050      | DIRECT     | 3     | 129             | 120/1   |               |        |     | LOCAL SWITCH | 1, 2     |

A/C CONDENSER UNIT SCHEDULE

COMMENTS:

1. PROVIDE EQUIPMENT CONCRETE PAD

2. UNIT SHALL COMMUNICATE WITH FURNACE TO MATCH CAPACITY TO DEMAND AND FURNACE FAN SPEED.

3. VERIFY CAPACITY WITH LOCAL CLIMATE CONDITIONS, SITE ORIENTATION, AND ENERGY CODE.

RATED CAPACITIES AS PER AHRI STANDARD

| TAG  | BASIS OF DESIGN |               | DISCRPTION                 | INDOOR UNIT | REFRIGERANT | NOMINAL TONS | RATED CAPACITY |             | ELECTRICAL DATA |      |           | COMMENTS |
|------|-----------------|---------------|----------------------------|-------------|-------------|--------------|----------------|-------------|-----------------|------|-----------|----------|
|      | MANUFACTURER    | MODEL         |                            |             |             |              | COOLING MBH    | HEATING MBH | MCA             | MOCP | VOLTAGE   |          |
| CU-1 | GOODMAN         | GLXS4B A6010A | SPLIT SYSTEM A/C CONDENSER | F-1         | R-410A      | 5.0          | 60             |             | 29.6            | 50   | 208-230/1 | 1 THRU 3 |
| CU-2 | GOODMAN         | GLXS4B A6010A | SPLIT SYSTEM A/C CONDENSER | F-2         | R-410A      | 5.0          | 60             |             | 29.6            | 50   | 208-230/1 | 1 THRU 3 |
| CU-3 | GOODMAN         | GLXS4B A6010A | SPLIT SYSTEM A/C CONDENSER | F-3         | R-410A      | 5.0          | 60             |             | 29.6            | 50   | 208-230/1 | 1 THRU 3 |
| CU-4 | GOODMAN         | GLXS4B A6010A | SPLIT SYSTEM A/C CONDENSER | F-4         | R-410A      | 5.0          | 60             |             | 29.6            | 50   | 208-230/1 | 1 THRU 3 |

FURNACE UNIT SCHEDULE

COMMENTS:

1. PROVIDE WITH FACTORY CONTROLS AND WALL MOUNTED, PROGRAMMABLE THERMOSTAT THAT WILL COORDINATE THE OPERATION OF THE AIR HANDLING AND REHEAT COIL. THERMOSTAT SHALL HAVE SETTINGS FOR 7-DAYS/ 4-PERIODS.

2. PROVIDE WITH CONDENSATE DRAIN SENSOR TO SHUT DOWN UNIT IN THE EVENT OF CONDENSATE DRAIN BLOCKAGE.

3. PROVIDE WITH 120 MBTU NAT GAS WITH PVC FLUE AND COMBUSTION AIR (CONDENSING UNIT TYP)

4. PROVIDE WITH 1" MERV 8 FILTER

5. CONNECT MOTORIZED OUTSIDE AIR DAMPER TO SUPPLY FAN CONTROL. DAMPER SHALL OPEN WHEN FAN IS RUNNING.

6. VERIFY CAPACITY WITH LOCAL CLIMATE CONDITIONS, SITE ORIENTATION, AND ENERGY CODE.

DESIGN CONDITIONS:

WINTER: 0 F

SUMMER: 95 F DB OUTSIDE

OUTSIDE 80 F DB OUTSIDE

70 F INSIDE 67 F WB INSIDE

| BASIS OF DESIGN |         |                | DISCRPTION                  | OUTDOOR UNIT | REFRIG | AIR FLOW DATA |        |             | AT AHRI COND'S |                | AT NOTED COND'S |               | AFUE | ELECTRICAL DATA |      |         | COMMENTS |
|-----------------|---------|----------------|-----------------------------|--------------|--------|---------------|--------|-------------|----------------|----------------|-----------------|---------------|------|-----------------|------|---------|----------|
| TAG             | MFR     | MODEL          |                             |              |        | SUPPLY CFM    | E.S.P. | OUTSIDE AIR | COOLING @ 47 F | HEATING @ 95 F | COOLING @ 95 F  | HEATING @ 0 F |      | MOP             | MCA  | VOLTAGE |          |
| F-1             | GOODMAN | GM9C96 120SDNA | NAT GAS 2 STAGE 96% FURNACE | CU-1         | R-410A | 1830          | 0.5    | 45          | 60             | 120            | 56.2            | 115.2         | 96%  | 20              | 13.3 | 115/1   | 1 THRU 6 |
| F-2             | GOODMAN | GM9C96 120SDNA | NAT GAS 2 STAGE 96% FURNACE | CU-2         | R-410A | 1940          | 0.5    | 45          | 60             | 120            | 56.2            | 115.2         | 96%  | 20              | 13.3 | 115/1   | 1 THRU 6 |
| F-3             | GOODMAN | GM9C96 120SDNA | NAT GAS 2 STAGE 96% FURNACE | CU-3         | R-410A | 1850          | 0.5    | 45          | 60             | 120            | 56.2            | 115.2         | 96%  | 20              | 13.3 | 115/1   | 1 THRU 6 |
| F-4             | GOODMAN | GM9C96 120SDNA | NAT GAS 2 STAGE 96% FURNACE | CU-4         | R-410A | 1850          | 0.5    | 45          | 60             | 120            | 56.2            | 115.2         | 96%  | 20              | 13.3 | 115/1   | 1 THRU 6 |

SEAL OF ARCHITECT

SEDGEWICK + FERWEDA ARCHITECTS

410 East Court Street Flint, MI 48503  
810-238-9647 | www.sfarch.us

Good clients + Good design + Great architecture

ARCHITECT



REVISIONS

| Date | Description |
|------|-------------|
|      |             |
|      |             |
|      |             |
|      |             |
|      |             |
|      |             |
|      |             |

Project ESSEXVILLE-HAMPTON PUBLIC

305 Pine Street, Essexville, MI 48732N

AND DESIGN

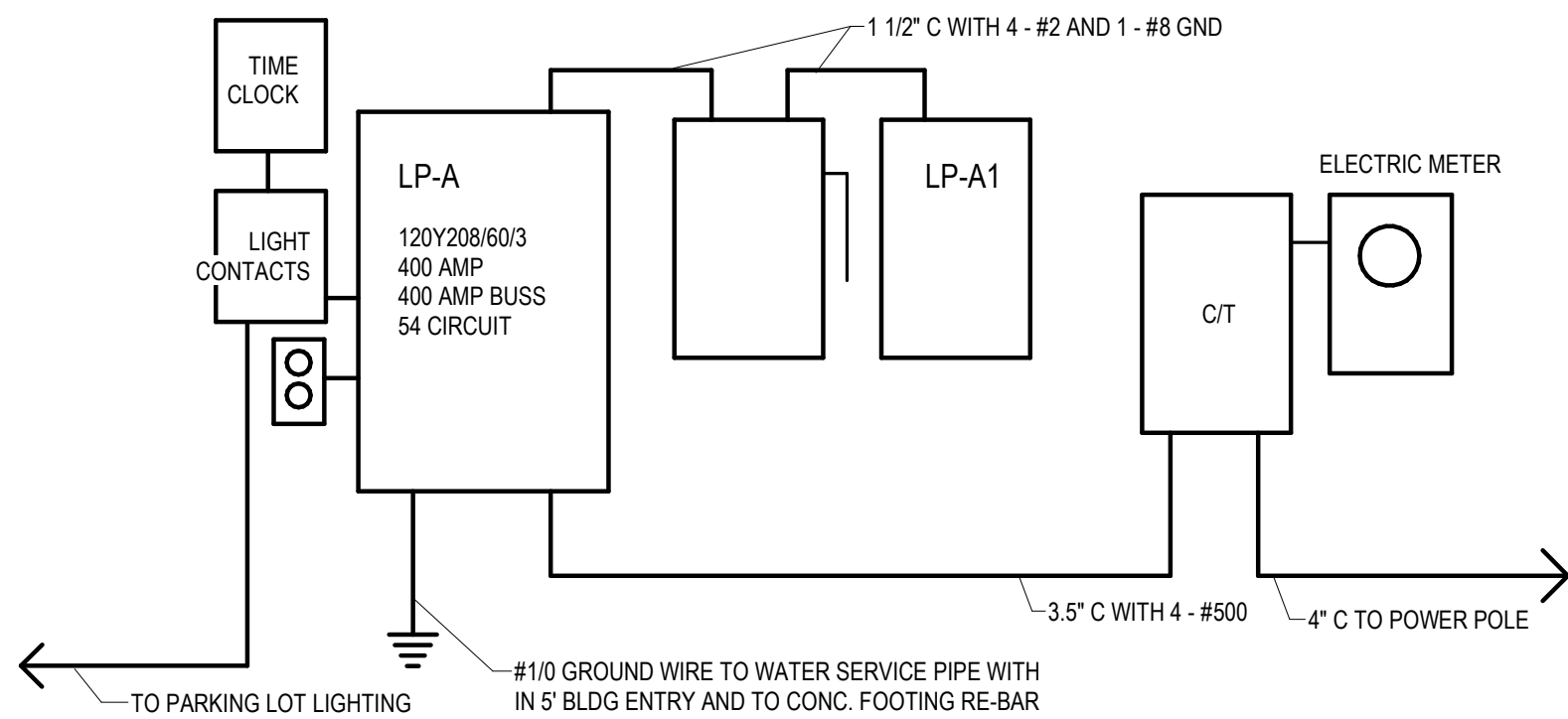
Drawing

Mechanical Details

DRAWN BY: SJS  
CHECKED BY: JSF

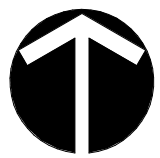
PROJECT NUMBER 25-028  
DATE JULY 29, 2026  
SCALE As indicated  
SHEET NUMBER

M2.0



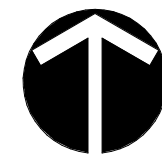
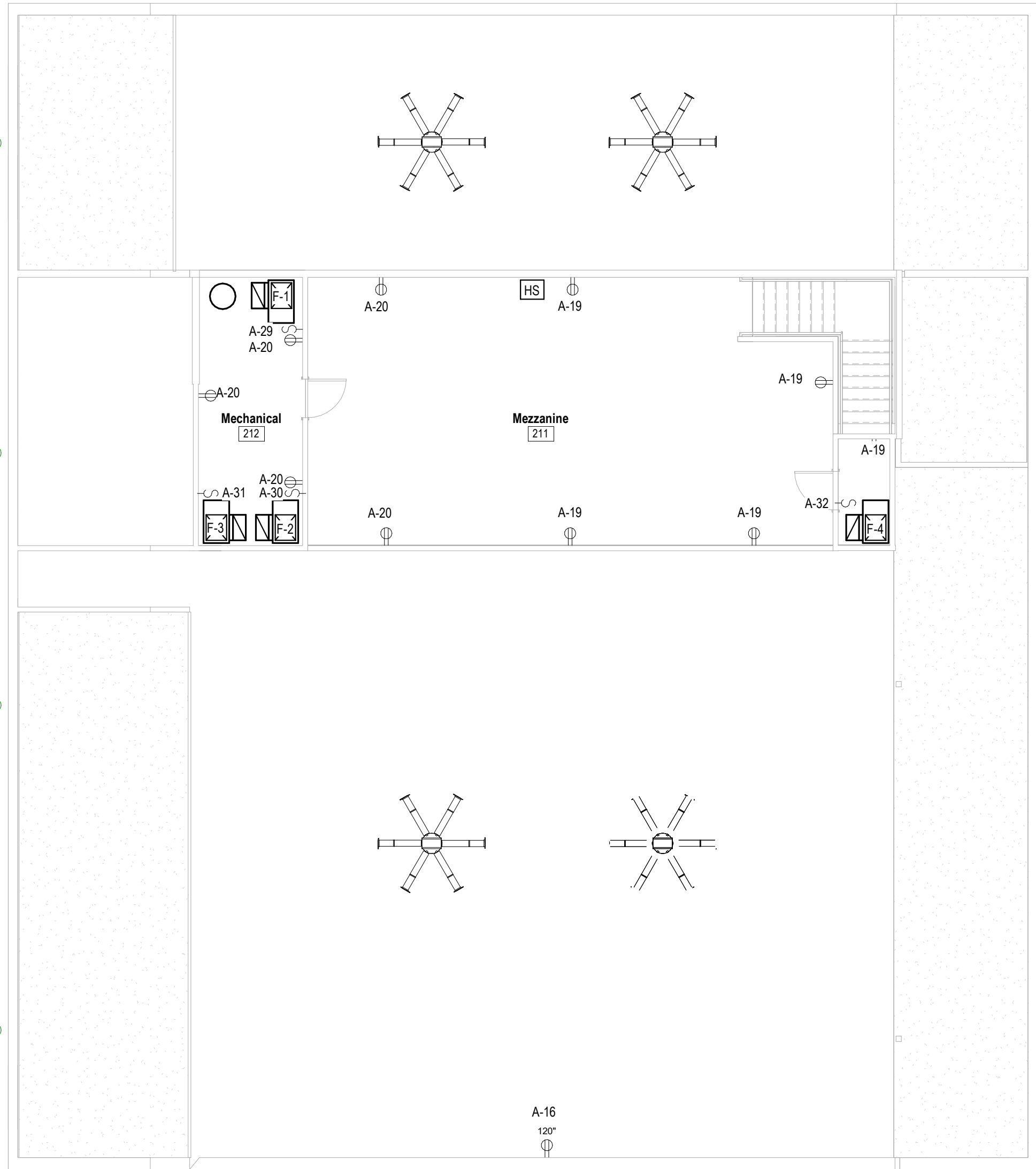
5 Electric Riser Diagram

|              |               |         |             |
|--------------|---------------|---------|-------------|
| 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   |
| HVAC         | 33.32 KVA     | AT 100% | = 33320 VA  |
| MISC         | 35.09 KVA     | AT 80%  | = 28072 VA  |
| MISC MOTOR   | 6.8 KW X .25% |         | = 1700 VA   |
| TOTAL:       | 88.75 KVA     | DEMAND  | = 81912 VA  |
|              |               |         | 227.53 AMPS |



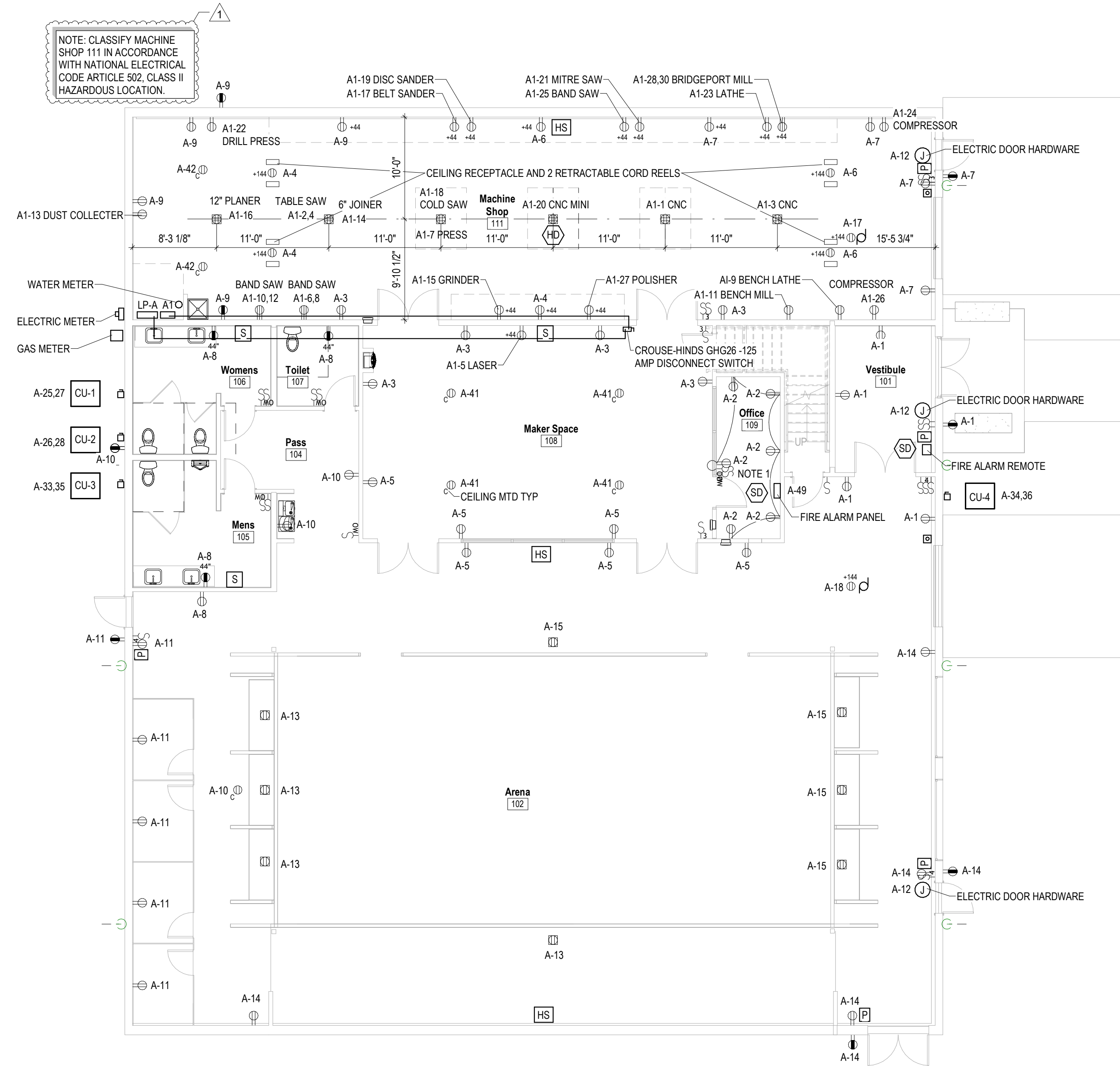
2 Second Floor Electrical Plan

E.T. 0.1 1/8" = 1'-0"



1 First Floor Electrical Plan

E.T. 0.1 1/8" = 1'-0"



| 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<br>B = 7.86 KVA<br>C = 9.39 KVA |     |                  | TOTAL 27.39 KVA = 76.08 AMPS |       |      |                    |     |    |  |

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

SEAL OF ARCHITECT

ARCHITECT

SEDGEWICK + FERWEDA ARCHITECTS

410 East Court Street Flint, MI 48503  
810-238-9647 | www.sfarch.us

Good clients + Good design + Great architecture



REVISIONS

| NO.    | REVISION    |
|--------|-------------|
|        |             |
|        |             |
|        |             |
|        |             |
|        |             |
|        |             |
|        |             |
| 8.6.26 | Bid Set     |
| Date   | Description |

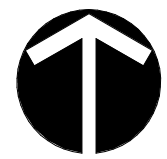
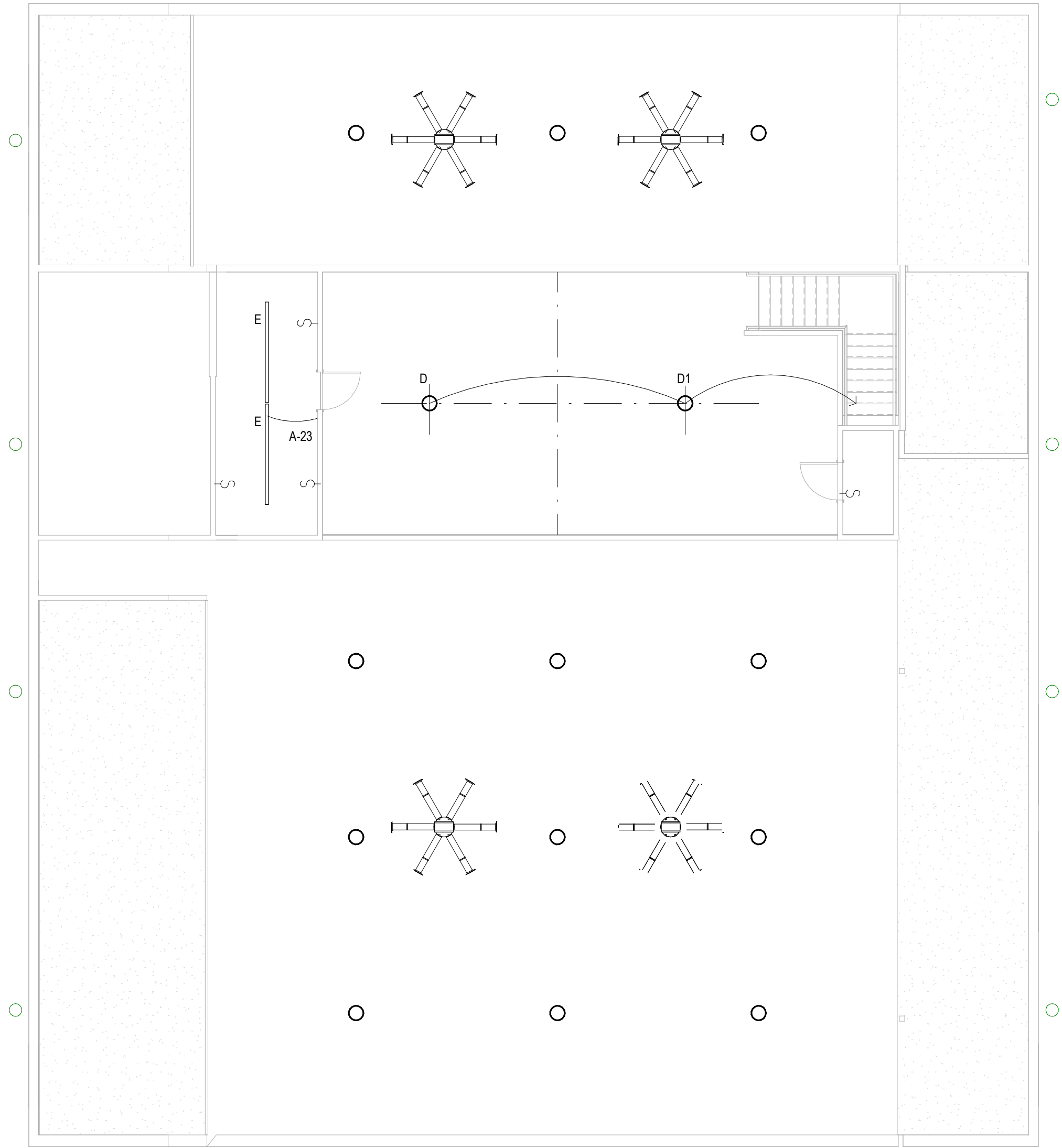
Project  
ESSEXVILLE-HAMPTON PUBLIC  
305 Pine Street, Essexville, MI 48732N  
AND DESIGN

Drawing  
Electrical Plan

DRAWN BY: SJS  
CHECKED BY: JSF

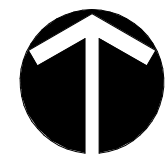
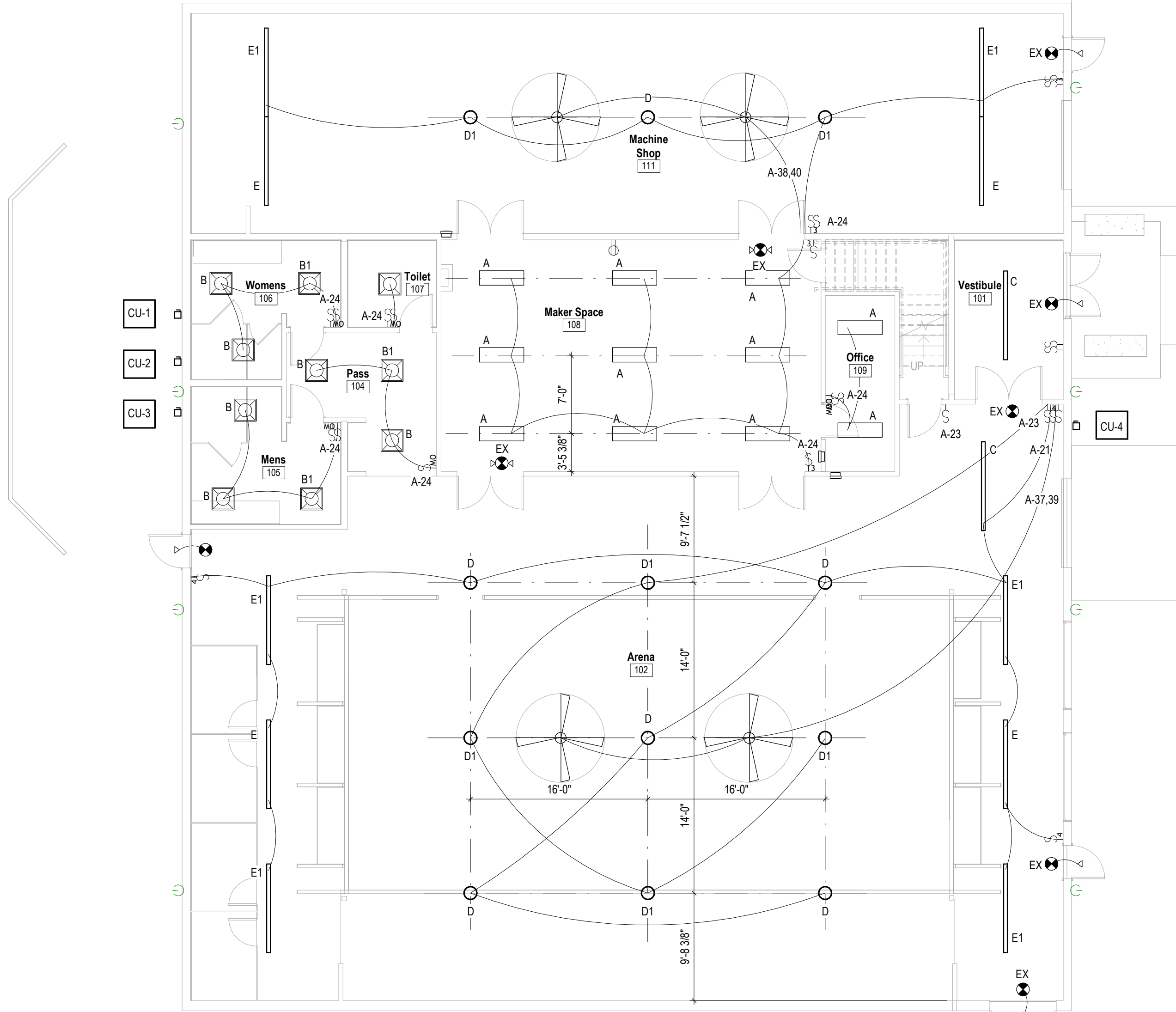
PROJECT NUMBER 25-028  
DATE JULY 29, 2026  
SCALE As indicated  
SHEET NUMBER

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<br>8SWW2 2T 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 MVOLT UNIVERSAL ELECTRONIC DRIVER, 4000 TO 6000 ADJUSTABLE LUMENS, 3000K TO 5000K ADJUSTABLE COLOR TEMP AND DIMMING DRIVER<br>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 MVOLT ELECTRONIC DRIVER, 3000 LUMENS AND DIMMING DRIVER 1 - 34.5 WATT LED LAMP                                                                                            |
| B1 | 'LITHONIA' | 2FSL2 33L EZ1<br>LP835 EL14L                                | SAME AS 2A ONLY WITH AN EMERGENCY BATTERY BACK UP PACK                                                                                                                                                                                                                                                                                    |
| C  | 'PEERLESS' | VMM9 HI 20/80 8FT R4<br>120 EZB 1SE SCT<br>LP835 FI/18 CO41 | 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  | 'LITHONIA' | REBL AL016 UVOLT SWW3<br>80CRI DWH M2                       | 16" ROUND HIGH BAY LED LIGHT FIXTURE SINGLE PIECE DIE CAST ALUMINUM HOUSING WITH POLYCARBONATE LENS, ADJUSTABLE 24000,27000,30000 LUMENS, ADJUSTABLE COLOR TEMPERATURE 3500K,4000K,5000K. 170 WATT LED LAMP WITH REBLPCLR2 J10 POLYCARBONATE REFLECTOR                                                                                    |
| D1 | 'LITHONIA' | RBAY BLDE40WCP M4                                           | SAME AS 3A ONLY WITH 40WATT 90 MIN EMERGENCY BATTERY PACK                                                                                                                                                                                                                                                                                 |
| E  | 'LITHONIA' | ZL1N L48 10000LM SBL<br>MVOLT 40K 80CRI WH                  | CABLE MTD LOW PROFILE /Z/ STRIP CHANNEL LED FIXTURE COLD ROLLED STL HIGH GLOSS BAKED WHITE ENAMEL WITH STRAIGHT BLAD LOUVRE MULTI-VOLT INPUT 0-10V DIMMING DRIVER LAMP 80CRI AT 3500 K 5000 LUMENS 42 WATTS                                                                                                                               |
| E1 | 'LITHONIA' | E10W                                                        | SAME AS 3A ONLY WITH 10WATT EMERGENCY BATTERY PACK 900 LUMENS                                                                                                                                                                                                                                                                             |
| 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 L0309 1.5W/9.6V 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.

SEAL OF ARCHITECT

ARCHITECT

SEDGEWICK + FERWEDA ARCHITECTS

410 East Court Street Flint, MI 48503  
810-238-9647 | www.sfarch.us

Good clients + Good design + Great architecture



REVISIONS

| Date | Description |
|------|-------------|
|      |             |
|      |             |
|      |             |
|      |             |
|      |             |
|      |             |
|      |             |

Project

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