

GARFIELD TOWNSHIP FIRE DEPARTMENT

1242 W. ERICKSON RD.
LINWOOD, MICHIGAN 48634

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CODE REVIEW:

BASED ON MICHIGAN BUILDING CODE 2015

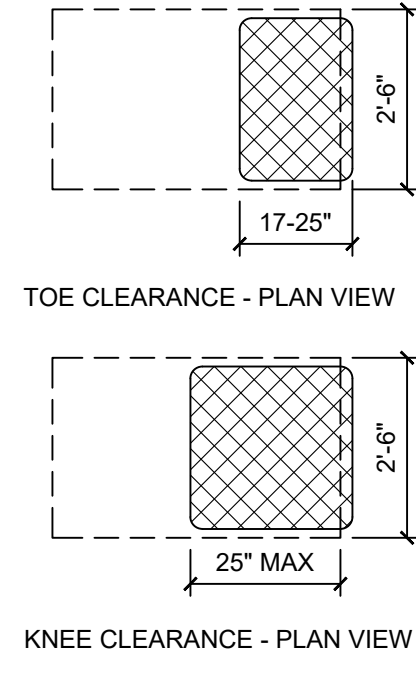
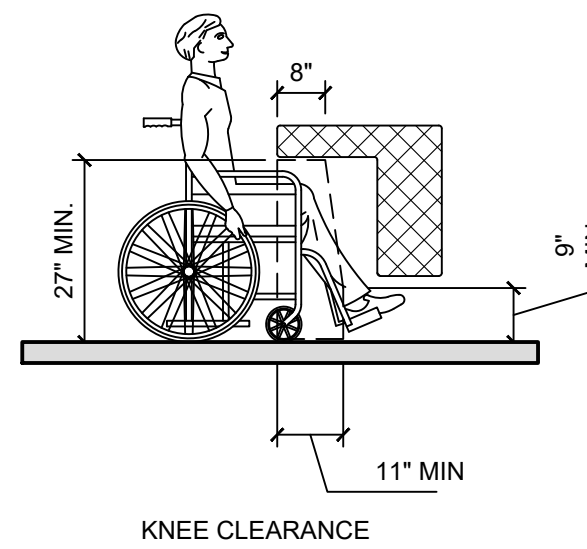
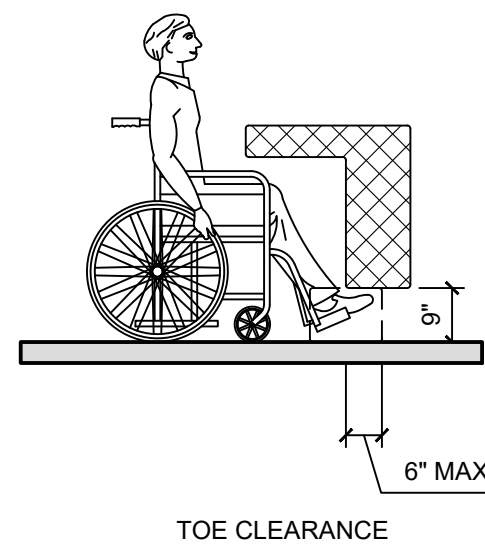
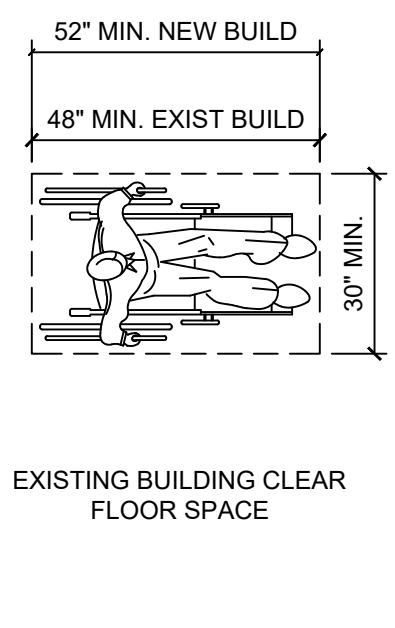
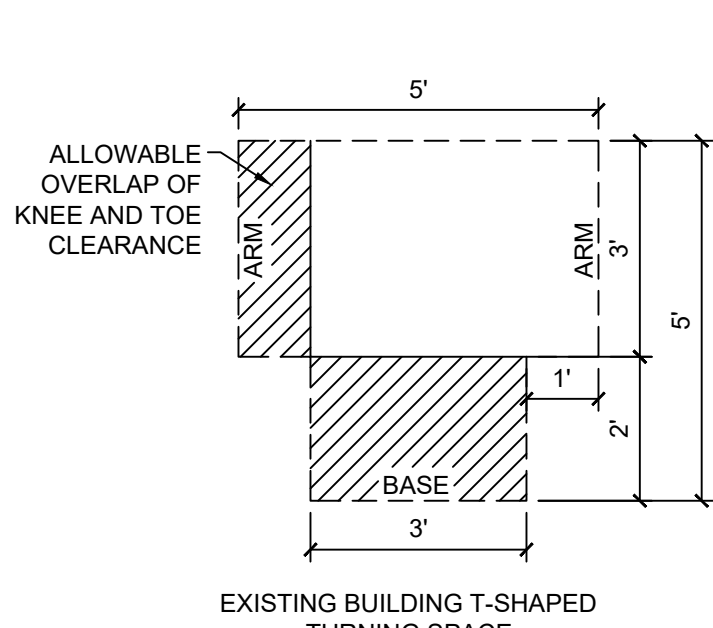
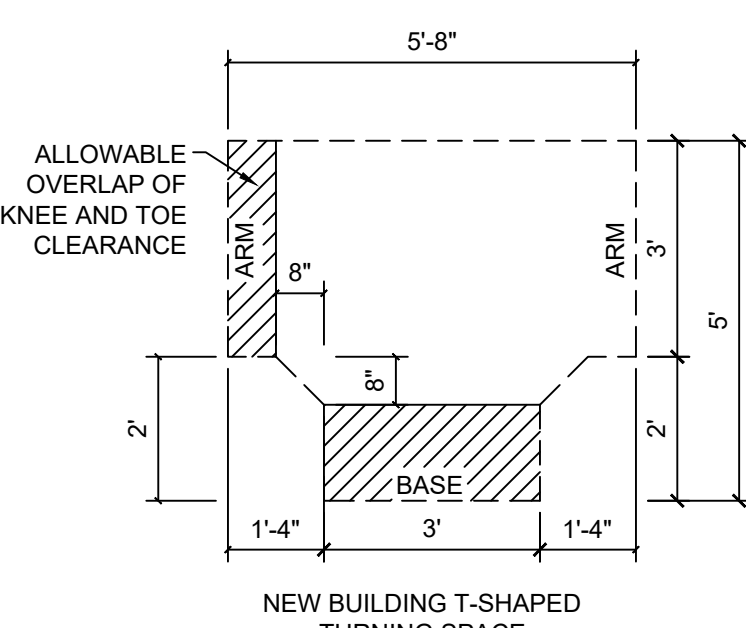
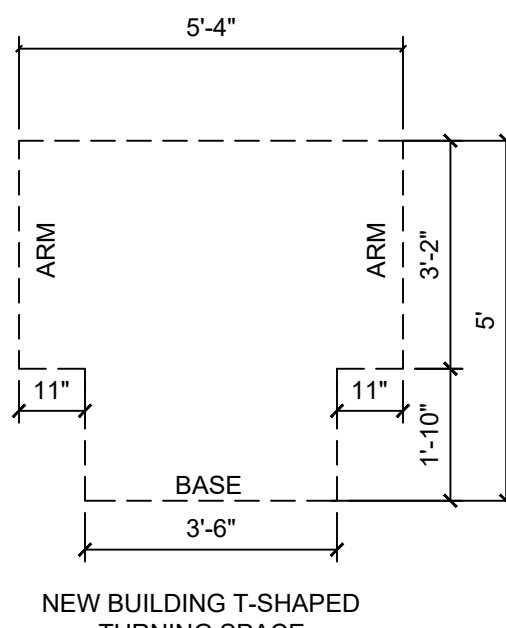
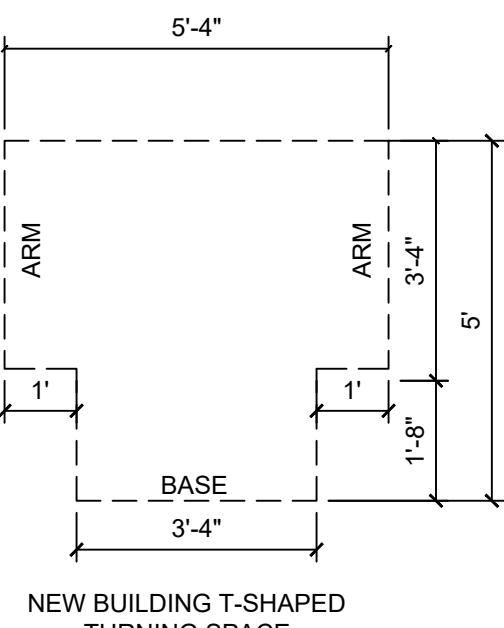
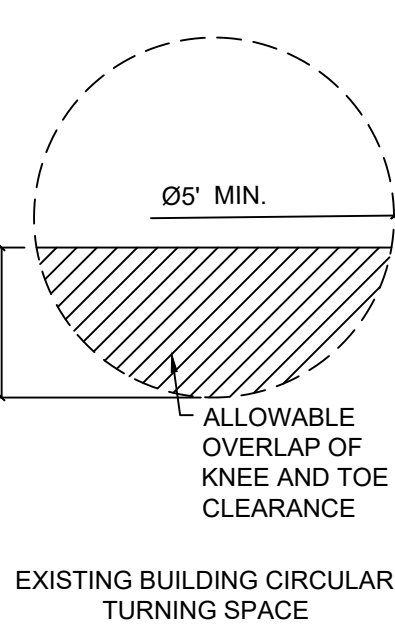
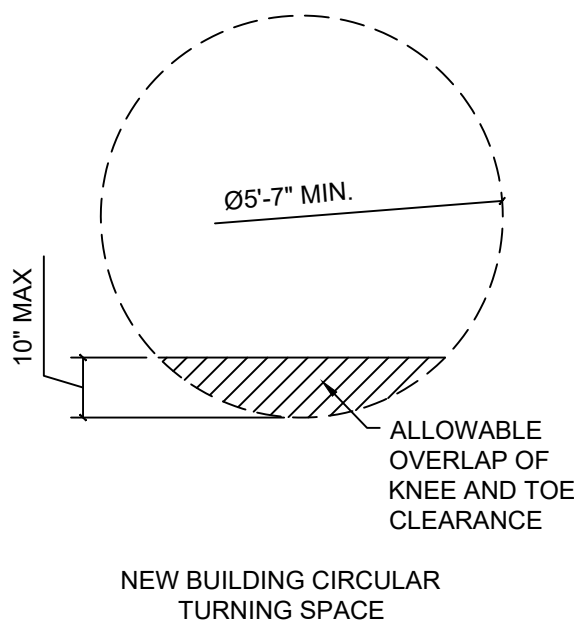
1. USE GROUP - NON-SEPARATED MIXED USE OF B-BUSINESS & S-2-STORAGE
BASED ON SECTIONS 304.1 & 311.3.
2. CONSTRUCTION TYPE - 3B BASED ON SECTION 602.5.
3. MAXIMUM ALLOWABLE BUILDING AREA= UNLIMITED PER SECTION 507.4
PROPOSED FIRST FLOOR AREA = 7,630 S.F.
PROPOSED MEZZANINE AREA = 2,278 S.F.
PROPOSED BUILDING TOTAL AREA = 9,908 S.F.
4. OCCUPANT LOAD IS 69 PEOPLE BASED ON TABLE 1004.1.2
PROPOSED ADDITION:
BUSINESS AREAS = $2,795/100 = 28$ PEOPLE
STORAGE AREAS = $7,113/300 = 24$ PEOPLE
TOTAL OCCUPANT LOAD = 52 PEOPLE
5. ACCESSIBLE MEANS OF EGRESS SHALL BE PROVIDED PER SECTION 1006.3.1.
6. AUTOMATIC SPRINKLER SYSTEM IS PROVIDED PER SECTION 903.
7. GROUND SNOW LOAD = 40 PSF PER FIGURE 1608.2
GROUND SNOW LOAD EXPOSURE FACTOR - 1.0
GROUND SNOW LOAD IMPORTANCE FACTOR - 1.0
GROUND SNOW LOAD THERMAL FACTOR - 1.0
8. WIND LOAD = 115 MPH PER FIGURE 1609.3(1)
EXPOSURE CATEGORY - B
IMPORTANCE FACTOR - 1.0
TOPOGRAPHICAL FACTOR - 1.0
9. SEISMIC USE GROUP -1
10. SEISMIC SITE CLASS - D
IMPORTANCE FACTOR - 1.0

JBS Contracting Inc.
P.O. BOX 370
MT. PLEASANT, MI 48804
(989) 773-0770

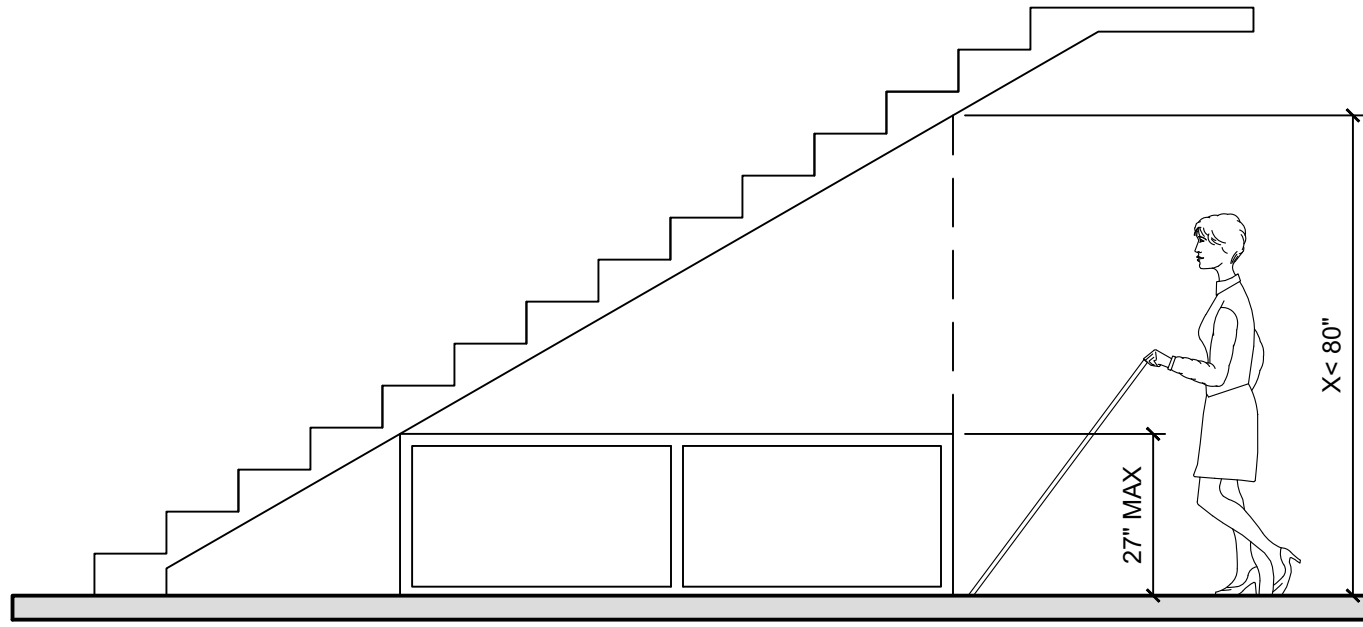
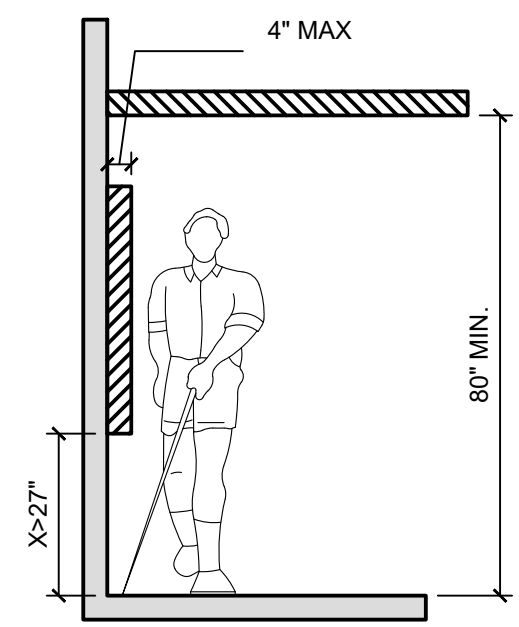
COMMERCIAL / INDUSTRIAL
CONSTRUCTION

DATE: 9/10 / 2026

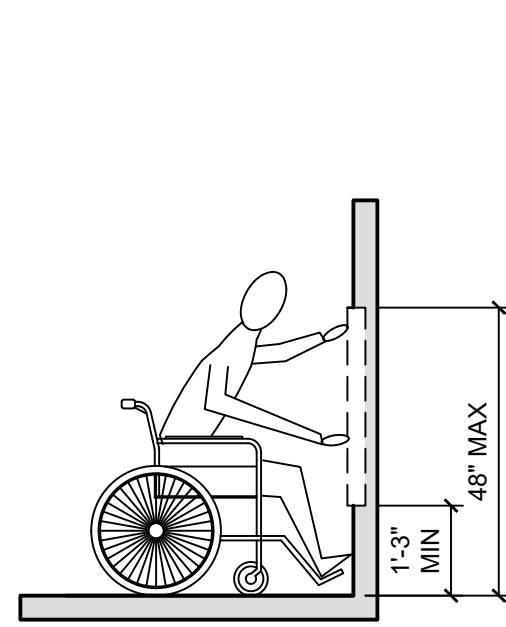
COVER



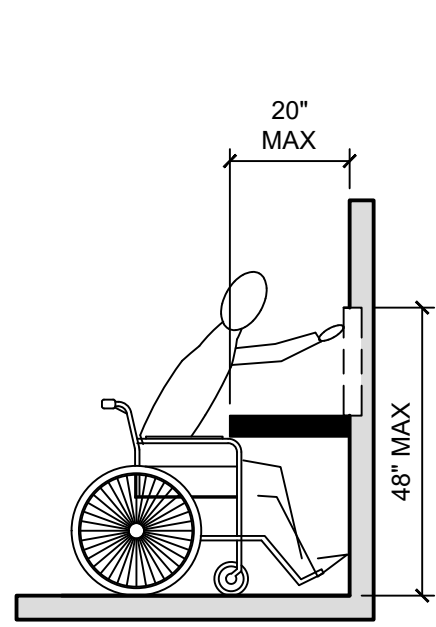
KNEE AND TOE CLEARANCES



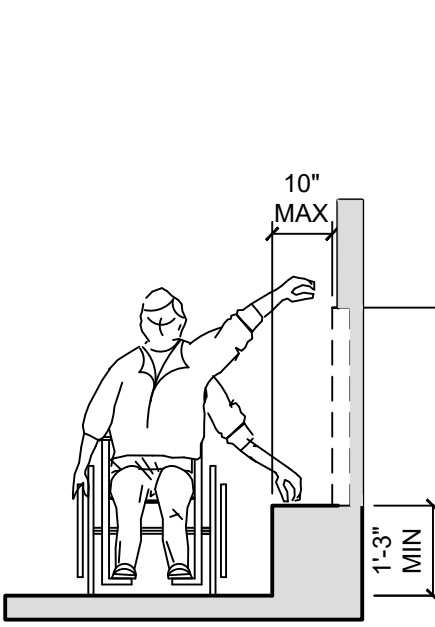
REDUCTION OF VERTICAL CLEARANCE



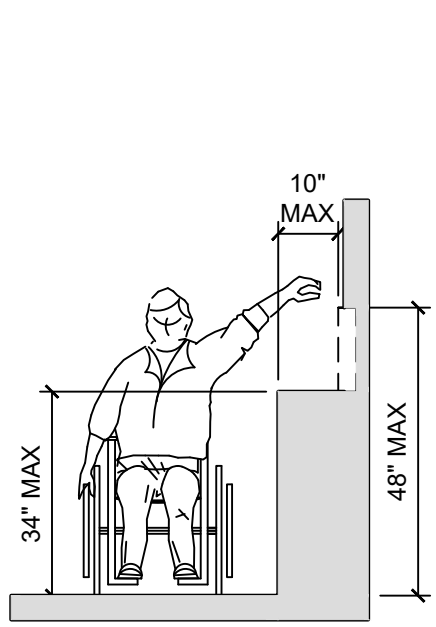
UNOBSTRUCTED FORWARD REACH



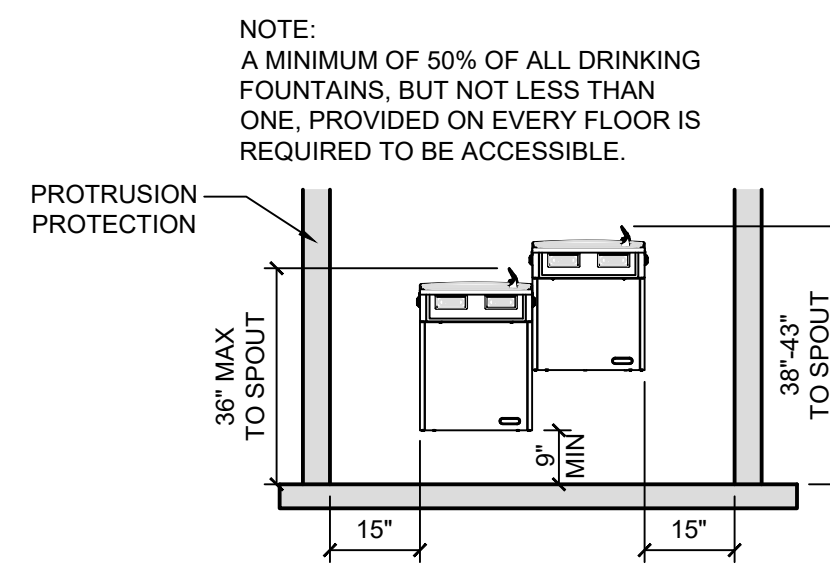
UNOBSTRUCTED HIGH FORWARD REACH



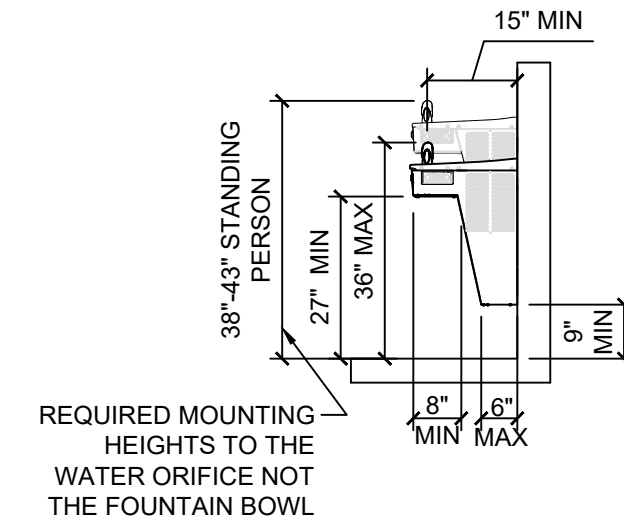
UNOBSTRUCTED SIDE REACH



UNOBSTRUCTED HIGH SIDE REACH



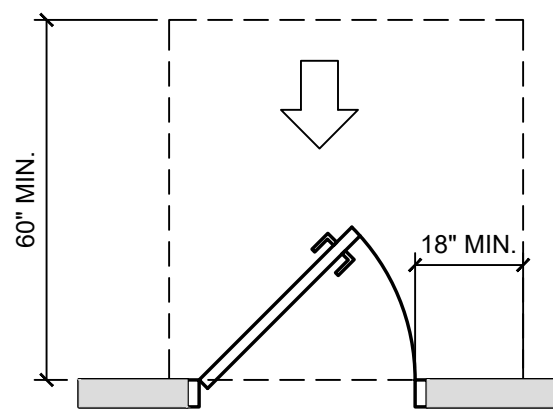
NOTE: A MINIMUM OF 50% OF ALL DRINKING FOUNTAINS, BUT NOT LESS THAN ONE, PROVIDED ON EVERY FLOOR IS REQUIRED TO BE ACCESSIBLE.



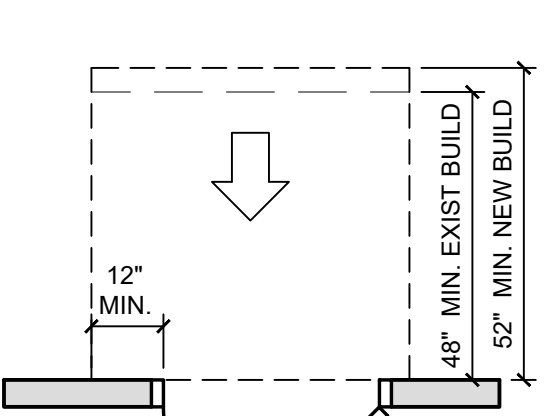
DRINKING FOUNTAIN DETAILS

FOR REFERENCE ONLY
THIS SHEET IS FOR REFERENCE ONLY AND IS INTENDED ONLY TO ILLUSTRATE VARIOUS BARRIER FREE CONDITIONS PER MICHIGAN BARRIER FREE CODES. IT IS NOT INTENDED TO REPRESENT ALL AND/OR ANY OF THE CONDITIONS THAT ARE A PART OF THIS PROJECT. JBS CONTRACTING DISCLAIMS ANY AND ALL LIABILITY RESULTING FROM OR CONNECTED WITH THE USE OF THIS SHEET FOR ANY PURPOSE OTHER THAN GENERAL REFERENCE.

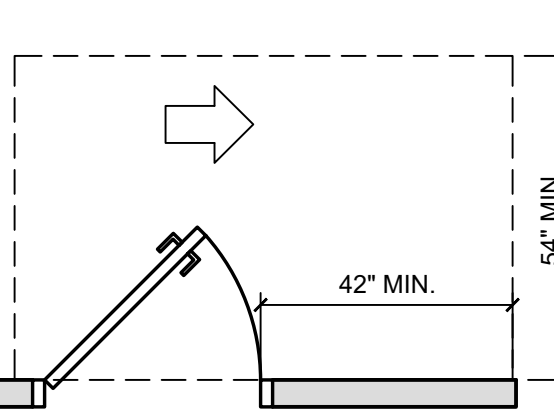
NOTE: ALL ACCESSIBILITY REQUIREMENTS SHALL BE SUBJECT TO APPROVAL UNDER THE 2017 CABO ANSI A117.1



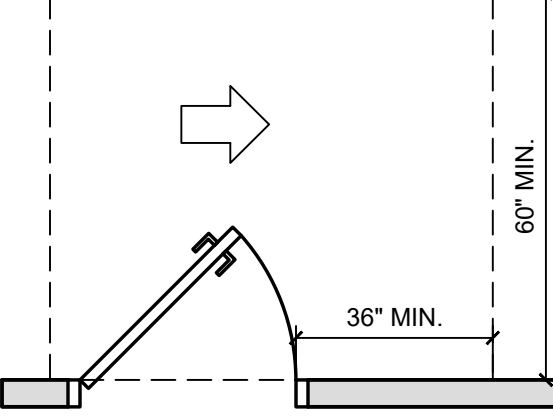
FRONT APPROACH PULL SIDE



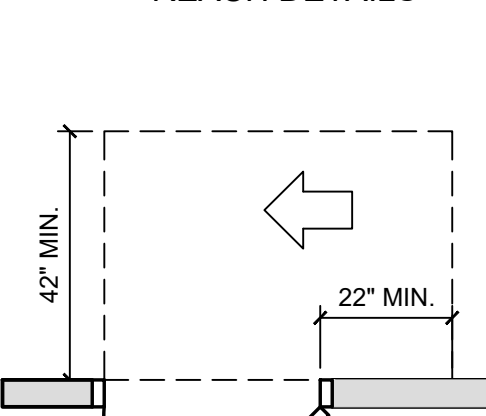
FRONT APPROACH, PUSH SIDE DOOR PROVIDED WITH BOTH CLOSER AND LATCH EXISTING BUILDING



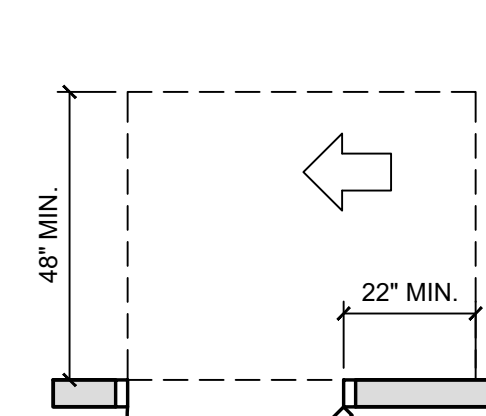
HINGE APPROACH PULL SIDE



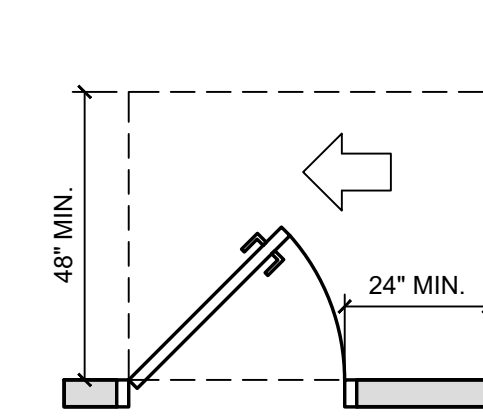
HINGE APPROACH PULL SIDE



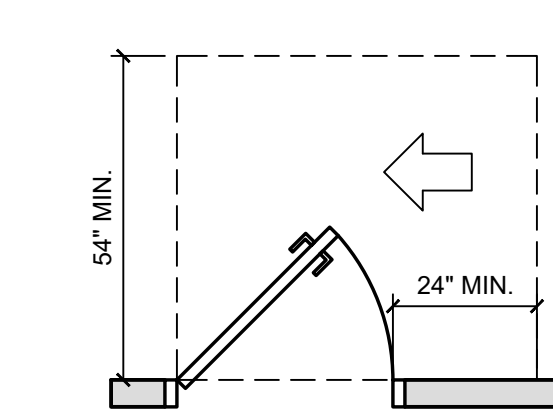
HINGE APPROACH PUSH SIDE



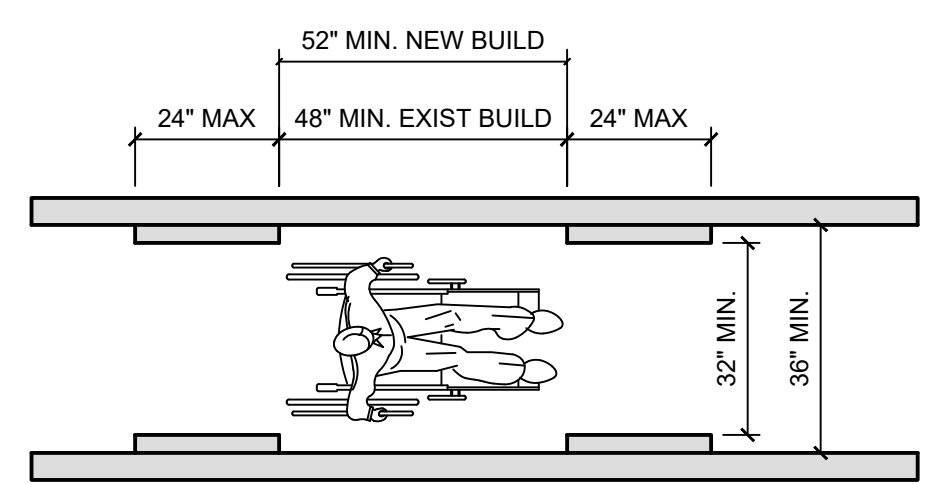
HINGE APPROACH, PUSH SIDE, DOOR PROVIDED W/ BOTH CLOSER AND LATCH



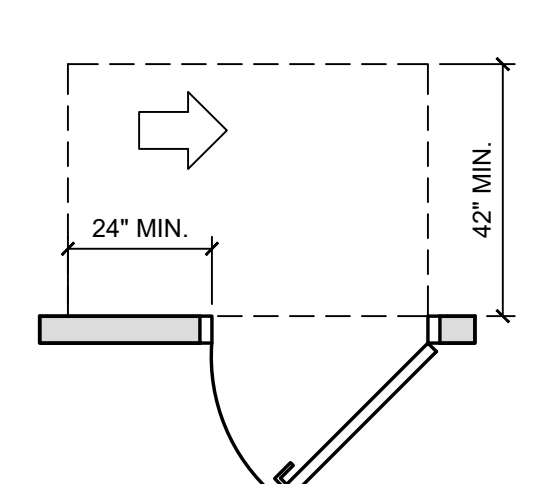
LATCH APPROACH PULL SIDE



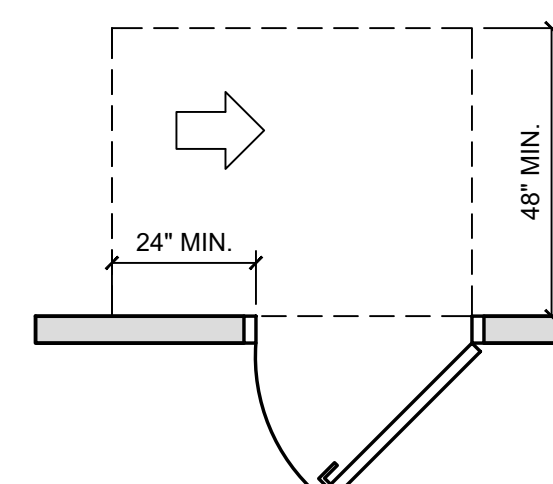
LATCH APPROACH, PULL SIDE DOOR PROVIDED W/ CLOSER



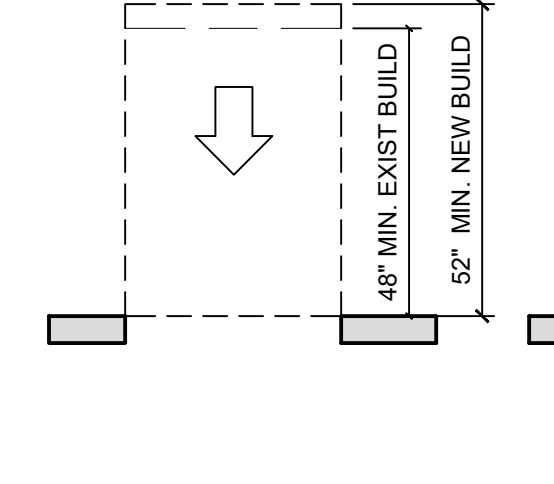
CLEAR WIDTH OF AN ACCESSIBLE ROUTE



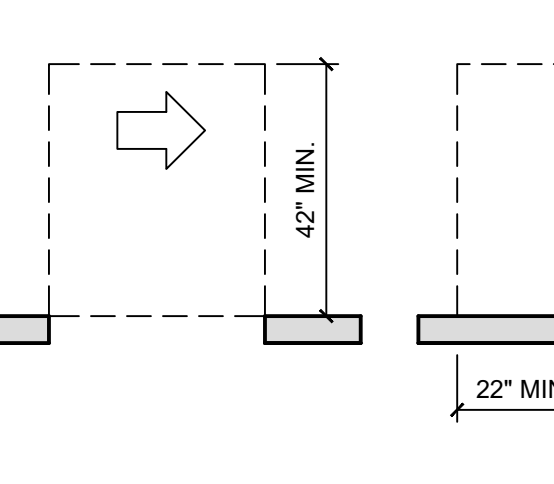
LATCH APPROACH PUSH SIDE



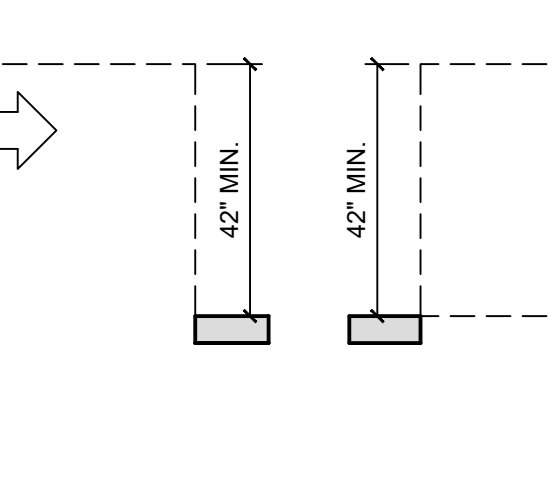
LATCH APPROACH, PUSH SIDE DOOR PROVIDED W/ CLOSER



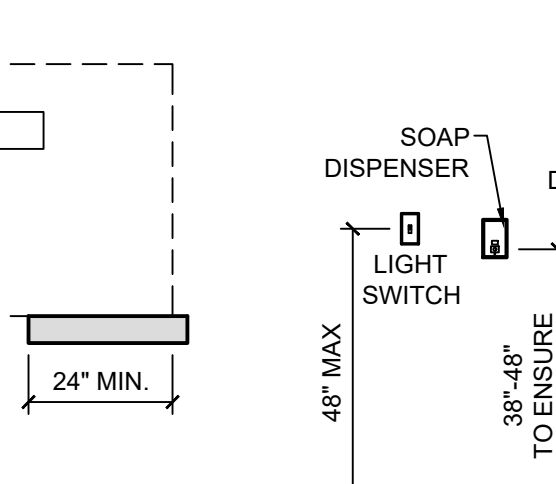
FRONT APPROACH



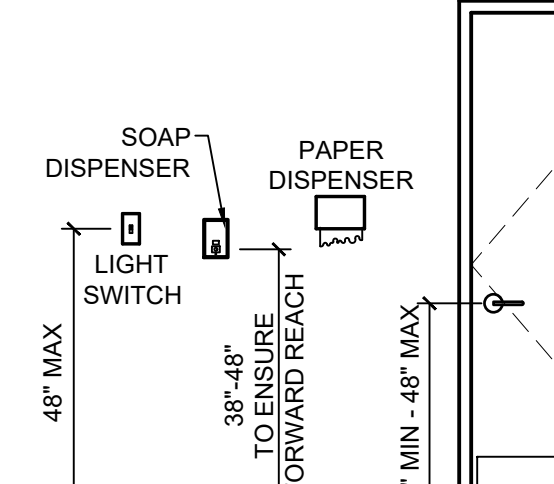
SIDE APPROACH



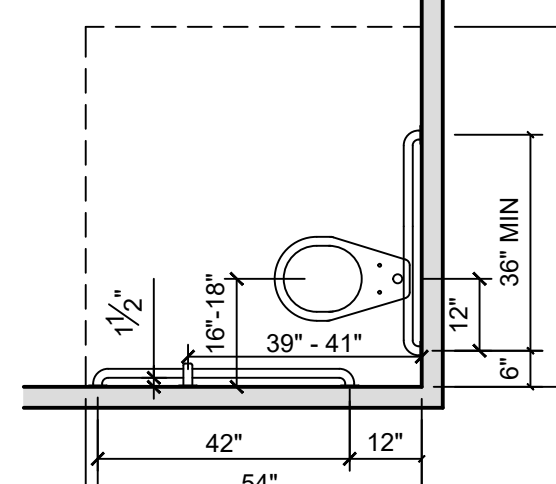
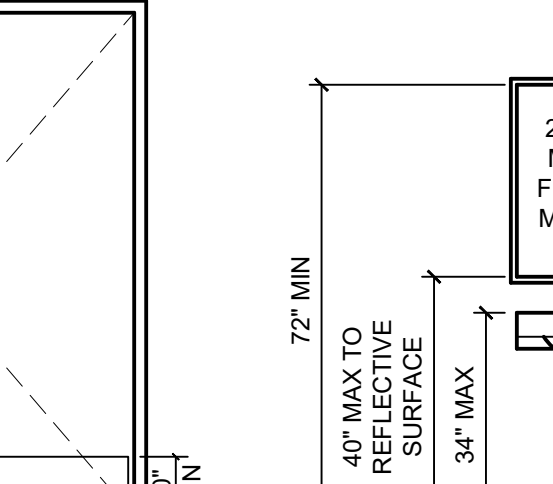
POCKET OR HINGE APPROACH



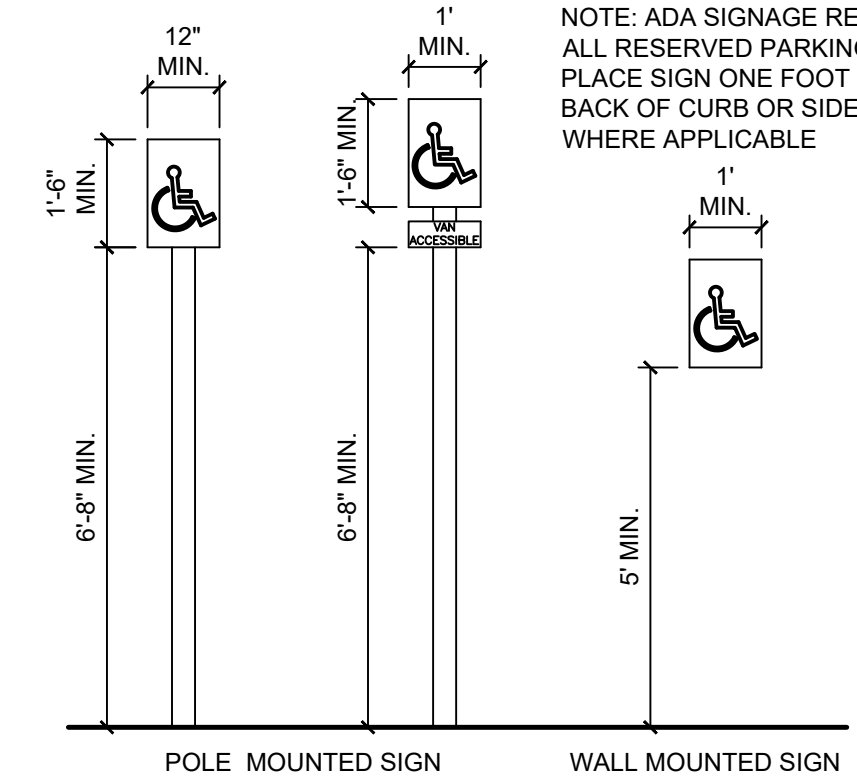
STOP OR LATCH APPROACH



TYPICAL TOILET ROOM ELEVATIONS

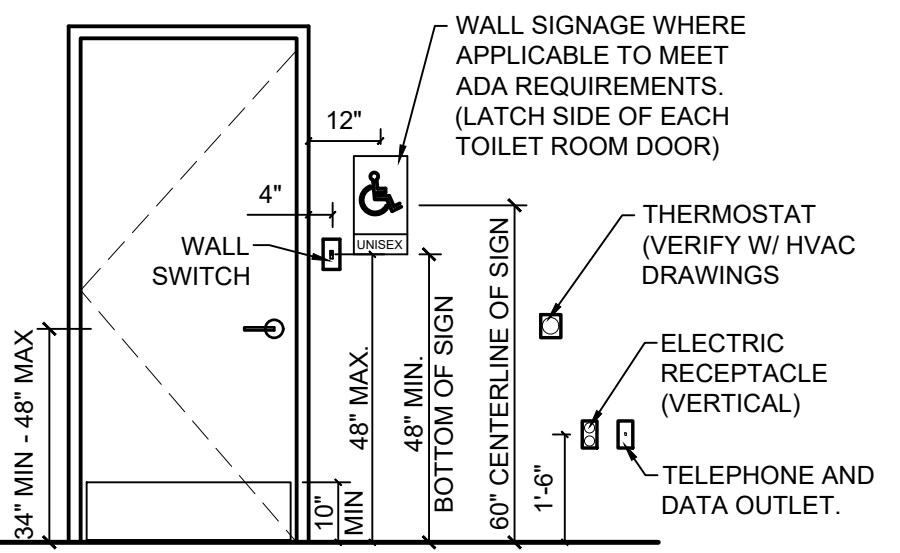


TYPICAL WATER CLOSET ACCESSIBLE DIMENSIONS

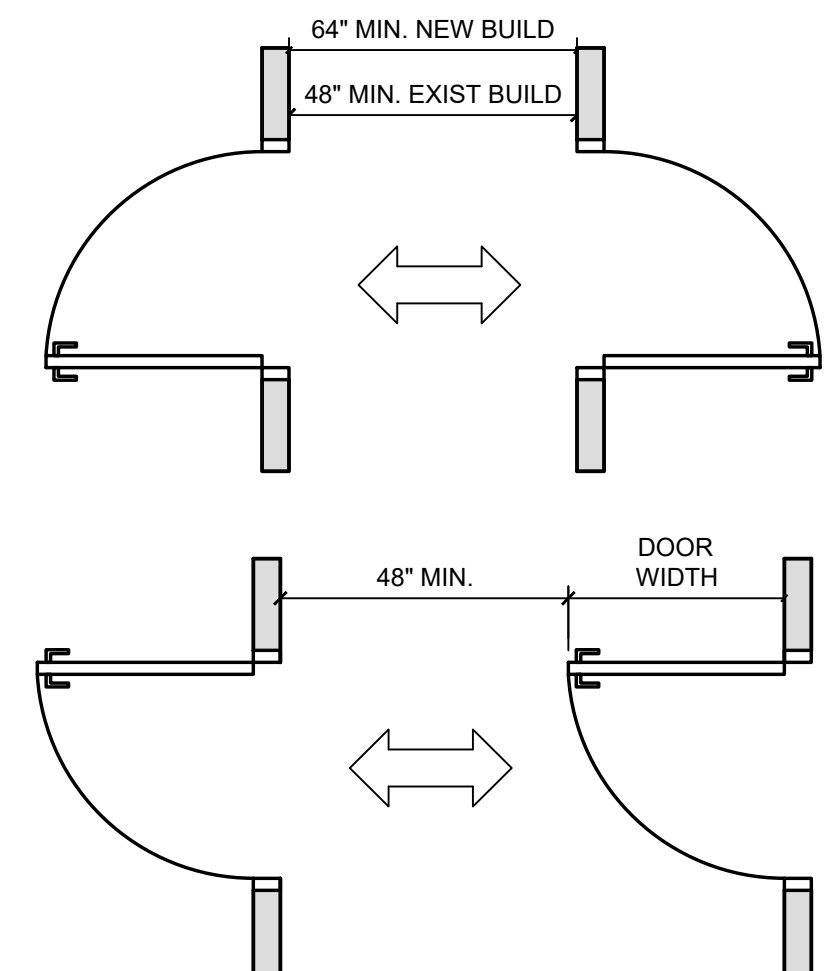


SIGNAGE

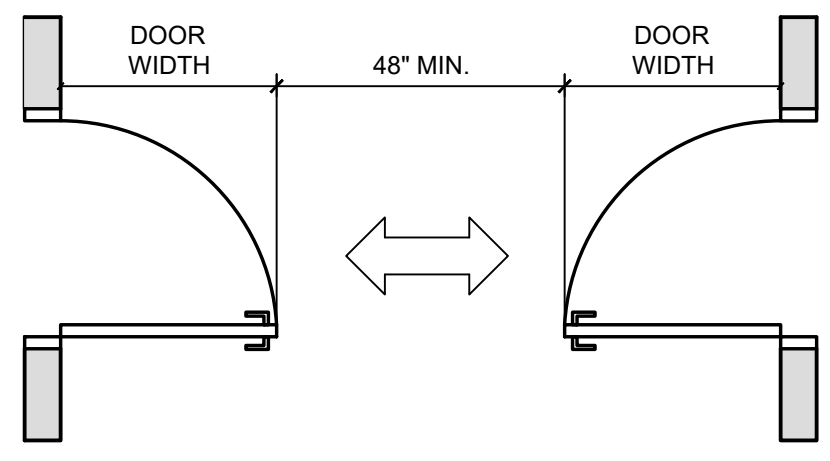
NOTE: ADA SIGNAGE REQUIRED FOR ALL RESERVED PARKING AREAS. PLACE SIGN ONE FOOT BEHIND THE BACK OF CURB OR SIDEWALK WHERE APPLICABLE



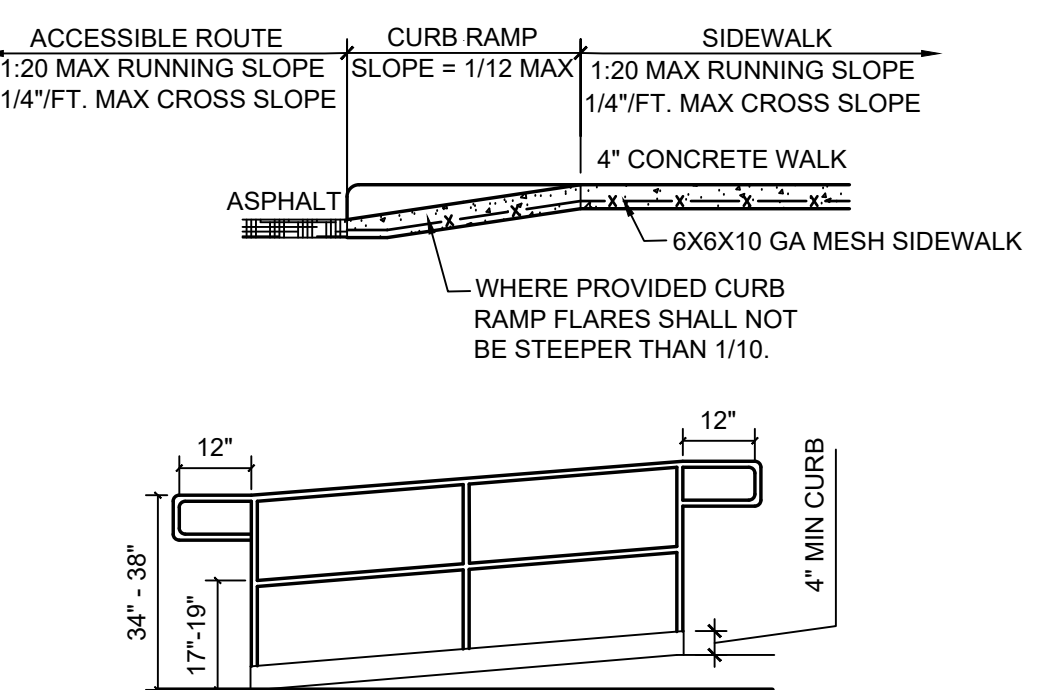
TYPICAL ELEVATION



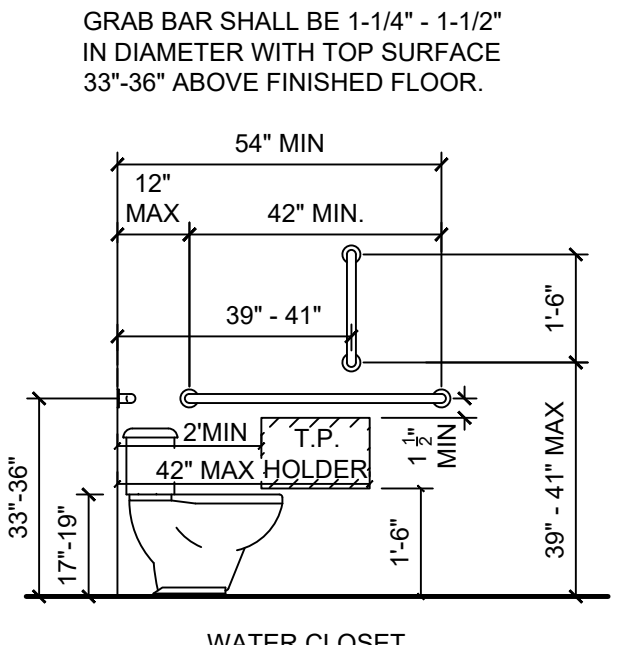
DOORS IN SERIES AND GATES IN SERIES



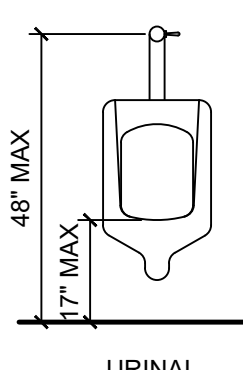
MANEUVERING CLEARANCE AT DOORWAYS WITHOUT DOORS, SLIDING DOORS, GATES AND FOLDING DOORS



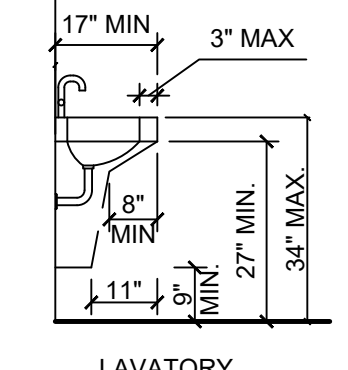
CURB RAMP



TYPICAL TOILET ROOM ELEVATIONS



URINAL



LAVATORY

NOTE: EXPOSED PIPING (SUPPLY AND DRAIN LINES) MUST BE INSULATED OR POSITIONED TO PROTECT AGAINST CONTACT. MAXIMUM OUTLET WATER TEMP. SHALL BE 120°F.

GARFIELD TOWNSHIP
FIRE DEPARTMENT
1242 W. ERICKSON RD.
LINWOOD, MICHIGAN 48634

COMMERCIAL/INDUSTRIAL
CONSTRUCTION

JBS Contracting Inc.
1680 COVER PARKWAY
MT. PLEASANT, MI 48858
PH: (989) 772-0770
FAX: (989) 772-9272

SCALE:
3/8" = 1'-0"

ADA
ADA SHEET

JBS JOB NUMBER:
DRAWING NAME: ADA SHEET

DRAWN BY:
REVIEWED BY:

FIELD SUPERVISOR:
DATE: 9-10-2026

ENGINEER'S SEAL

SITE PLAN
GARFIELD TOWNSHIP VOLUNTEER FIRE DEPARTMENT
1138 W ERICSON ROAD, LINWOOD, MI 48634

CMS & D
SURVEYING / ENGINEERING
2257 E. BROOMFIELD ROAD
MT. PLEASANT, MICHIGAN 48858
PHONE: (989) 775-0756
FAX: (989) 775-5012
EMAIL: info@cms-d.com



COVER SHEET
JBS CONTRACTING INC.
PART OF THE SOUTHWEST 1/4 OF THE SOUTHEAST 1/4,
SECTION 10, T16N-R03E, GARFIELD TOWNSHIP,
BAY COUNTY, MICHIGAN

Table with 2 columns: ZONED: AR AGRICULTURAL/RURAL RESIDENTIAL DISTRICT, and various setback and area requirements (Front Yard Setback, Side Yard Setback, Rear Yard Setback, Min. Lot Area, Min. Lot Width, Min. Floor Area, Maximum Building Height).

FOOTNOTES TO SCHEDULE OF REGULATIONS:
1. ALL PUBLICLY OWNED BUILDINGS, PUBLIC UTILITY BUILDINGS, TELEPHONE EXCHANGE BUILDINGS, ELECTRIC TRANSFORMER STATIONS AND SUBSTATIONS, AND GAS REGULATOR STATIONS NECESSARY TO PROVIDE ESSENTIAL SERVICES TO THE AREA BY GOVERNMENTAL UNITS OR PUBLIC UTILITIES WILL BE PERMITTED ON LOTS HAVING A MINIMUM LOT SIZE OF 21,780 SQUARE FEET AND SHALL MAINTAIN A SETBACK OF TWENTY-FIVE (25) FEET FROM ALL PROPERTY LINES.
3. PERMITTED ENCROACHMENTS ON SETBACK SPACE. OUTSIDE STAIRCASES, BALCONIES, BELT COURSES, SILLS, LINTELS, CORNICES, EAVES, GUTTERS, OR ANY STRUCTURAL FEATURE EXTENDING THIRTY (30) INCHES OR MORE ABOVE GRADE MAY PROJECT INTO REQUIRED FRONT, REAR AND SIDE SETBACKS BY NOT MORE THAN TWO (2) FEET.
4. WALLS CONTAINING WINDOWS OR DOORS WHICH FACE A SIDE LOT LINE SHALL MAINTAIN A MINIMUM SETBACK DISTANCE OF TEN (10) FEET FROM SAID LINE; WALLS WHICH CONTAIN NO OPENINGS FACING A SIDE LOT LINE SHALL MAINTAIN A MINIMUM SETBACK DISTANCE OF FIVE (5) FEET FROM SAID LINE.

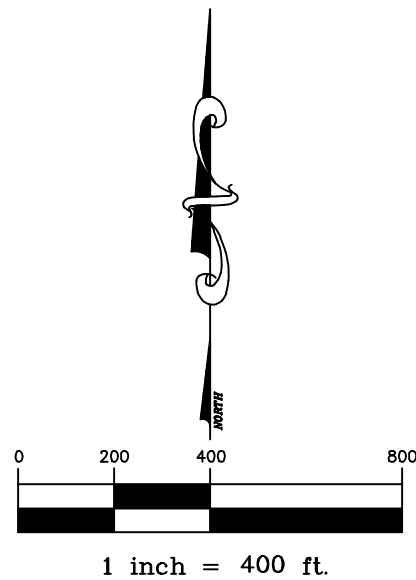
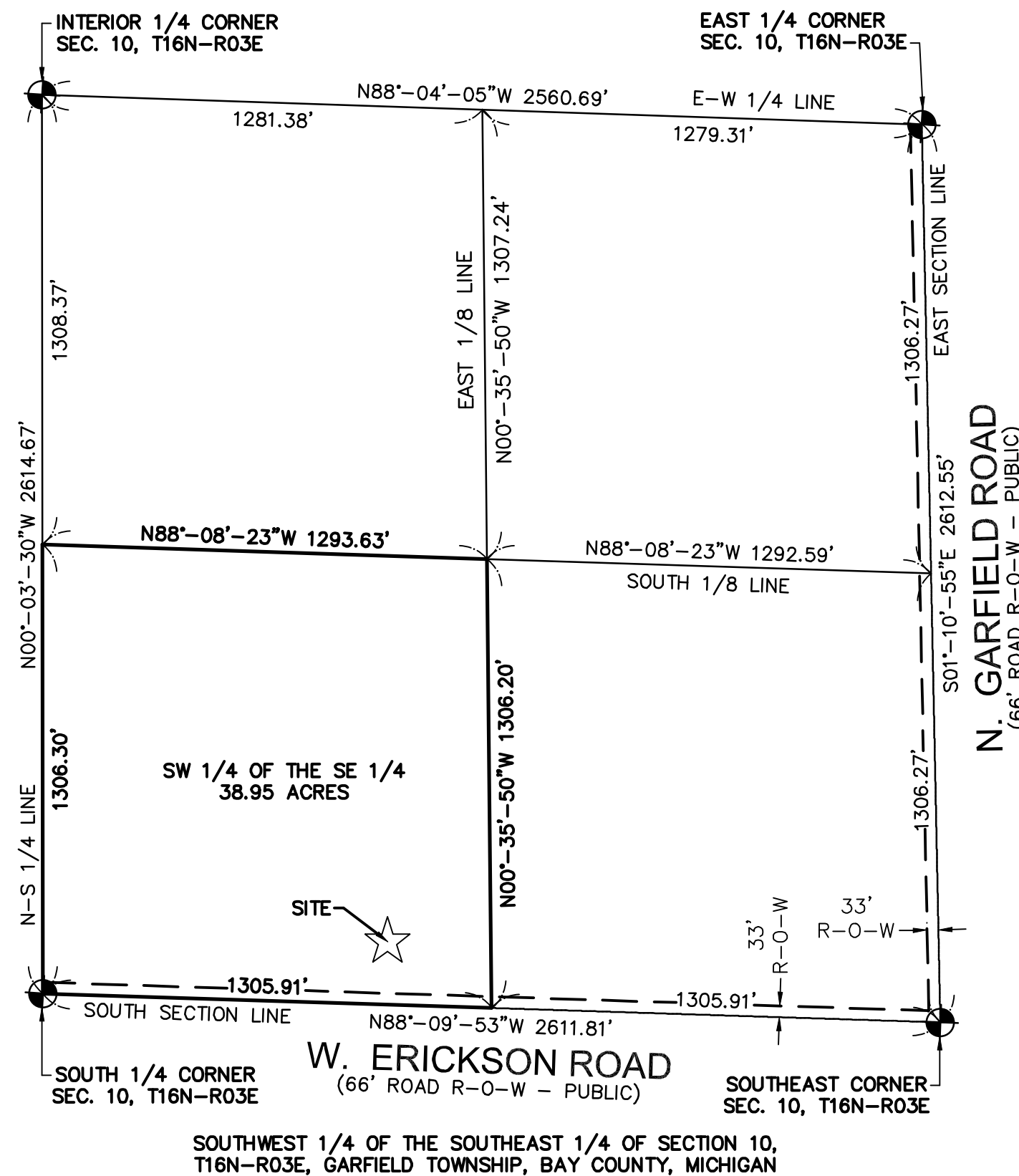
MISS DIG:
FOR PROTECTION OF UNDERGROUND UTILITIES, THE CONTRACTOR SHALL CALL "MISS DIG" 1-800-482-7171 A MINIMUM OF 3 WORKING DAYS PRIOR TO ANY EXCAVATION. ALL "MISS DIG" PARTICIPATING MEMBERS WILL BE APPROPRIATELY NOTIFIED. THIS DOES NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY OF NOTIFYING UTILITY OWNERS WHO MAY NOT BE A PART OF THE "MISS DIG" ALERT SYSTEM.

UTILITY NOTE:
THE UTILITY LOCATIONS AS HEREON SHOWN ARE BASED ON FIELD OBSERVATIONS AND A CAREFUL REVIEW OF MUNICIPAL AND UTILITY COMPANY RECORDS. HOWEVER, IT IS NOT POSSIBLE TO DETERMINE THE PRECISE LOCATION AND DEPTH OF UNDERGROUND UTILITIES WITHOUT EXCAVATION. THEREFORE, WE CANNOT GUARANTEE THE ACCURACY OR COMPLETENESS OF THE BURIED UTILITY INFORMATION HEREON SHOWN. THE CONTRACTOR SHALL CALL "MISS DIG" (1-800-482-7171) PRIOR TO ANY EXCAVATION. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING THESE UTILITY LOCATIONS PRIOR TO CONSTRUCTION AND SHALL MAKE EVERY EFFORT TO PROTECT AND OR RELOCATE THEM AS REQUIRED. THE CONTRACTOR SHALL NOTIFY THE ENGINEER/SURVEYOR AS SOON AS POSSIBLE IN THE EVENT A DISCREPANCY IS FOUND. UNDERGROUND SERVICE LEADS FOR GAS, ELECTRIC, TELEPHONE AND CABLE MAY BE ACROSS PROPERTY, NO INFORMATION AVAILABLE PLEASE CALL MISS DIG.

LEGEND
SYMBOLS
LINETYPES
HATCH PATTERNS



LOCATION SKETCH
NOT TO SCALE



DESCRIPTION PROVIDED:
THE SOUTHWEST 1/4 OF THE SOUTHEAST 1/4 OF SECTION 10, T16N-R03E, GARFIELD TOWNSHIP, BAY COUNTY, MICHIGAN.

SHEET INDEX table listing sheets 1 through 7 and their corresponding plan types (COVER SHEET, TOPOGRAPHIC SURVEY, DEMOLITION PLAN, SITE & HORIZONTAL PLAN, GRADING & STORM WATER MANAGEMENT PLAN, SOIL EROSION PLAN, DETAIL SHEET).

SITE: 1138 W ERICSON ROAD, LINWOOD, MI 48634
OWNER: GARFIELD TOWNSHIP, 1138 W ERICSON ROAD, LINWOOD, MI 48634
CLIENT: JBS CONTRACTING, 1680 GOVER PARKWAY, MT. PLEASANT, MI 48858
CONSULTANT: CENTRAL MICHIGAN SURVEYING & DEVELOPMENT CO., INC., 2257 E BROOMFIELD ROAD, MT. PLEASANT, MI 48858

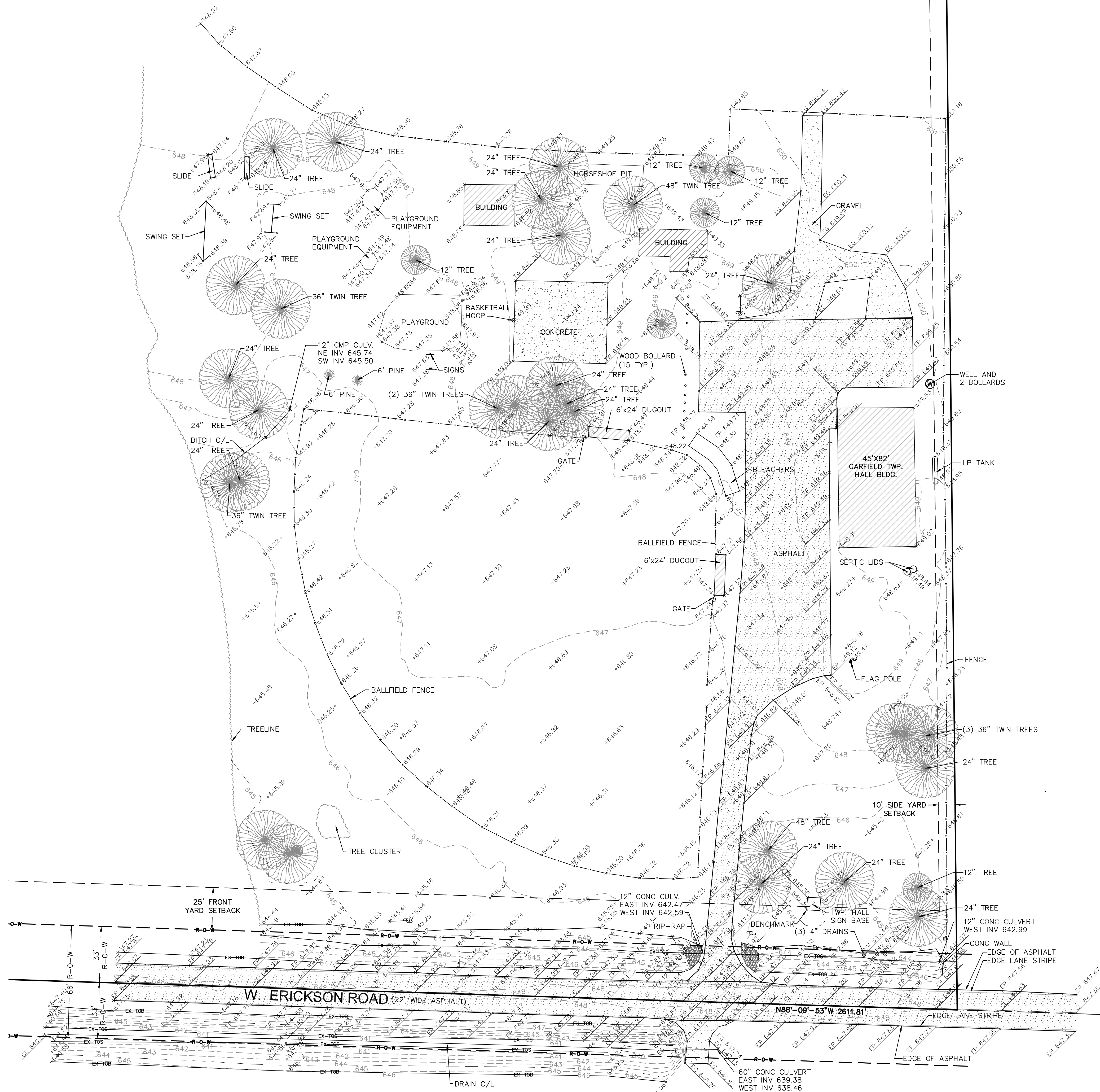
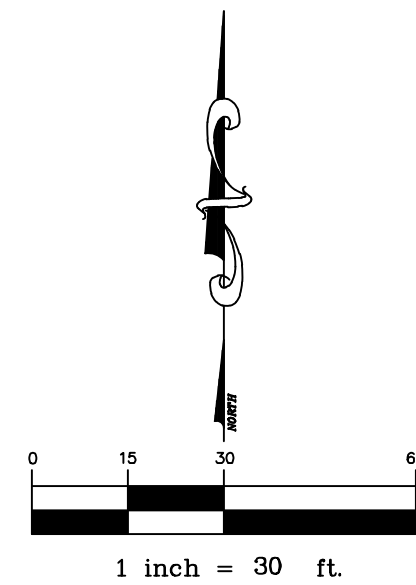
BENCHMARK INFORMATION
SOUTHWEST CORNER OF TOWNSHIP SIGN BASE
ELEVATION: 645.30

BEARING BASIS
PER MICHIGAN STATE PLANE SOUTH, THE BEARING OF THE SOUTH SECTION LINE BETWEEN THE SOUTHEAST CORNER AND SOUTH 1/4 CORNER, AS SHOWN, OF SECTION 10, WAS DETERMINED TO BE N88°-09'-53"E.

CONTACTS:
TOWNSHIP OFFICES
ELECTRIC
CONSUMERS ENGERY
BAY CITY ELECTRIC DEPARTMENT
GAS
CONSUMERS ENERGY
CABLE TELEVISION
SPECTRUM
TOWNSHIP PLANNING CONSULTANT
TOWNSHIP FIRE DEPARTMENT
WATER AND SEWER
BAY COUNTY DEPARTMENT OF WATER & SEWER
BAY COUNTY DRAIN COMMISSION
BAY COUNTY ROAD COMMISSION



Table with 4 columns: SUBMITTALS, JOB NUMBER, DRAWN BY, DESIGNED BY, CHECKED BY, SCALE, SHEET NUMBER. Includes values like 2607-078, RLL, TELB, 1 of 7, and NA.



CMS & D
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FAX: (989) 775-5012
EMAIL: info@cms-d.com

TOPOGRAPHIC SURVEY
JBS CONTRACTING INC.

PART OF THE SOUTHWEST 1/4 OF THE SOUTHEAST 1/4,
SECTION 10, T16N-R03E, GARFIELD TOWNSHIP,
BAY COUNTY, MICHIGAN

REVISIONS:

SUBMITTALS:

SUBMITTAL TO CLIENT 9-22-26

JOB NUMBER:
2607-078

DRAWN BY:
RLL

DESIGNED BY:
TELB

CHECKED BY:
TELB

SCALE
1" = 30'

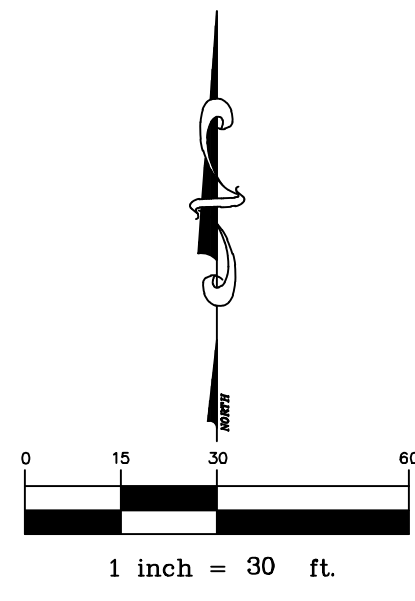
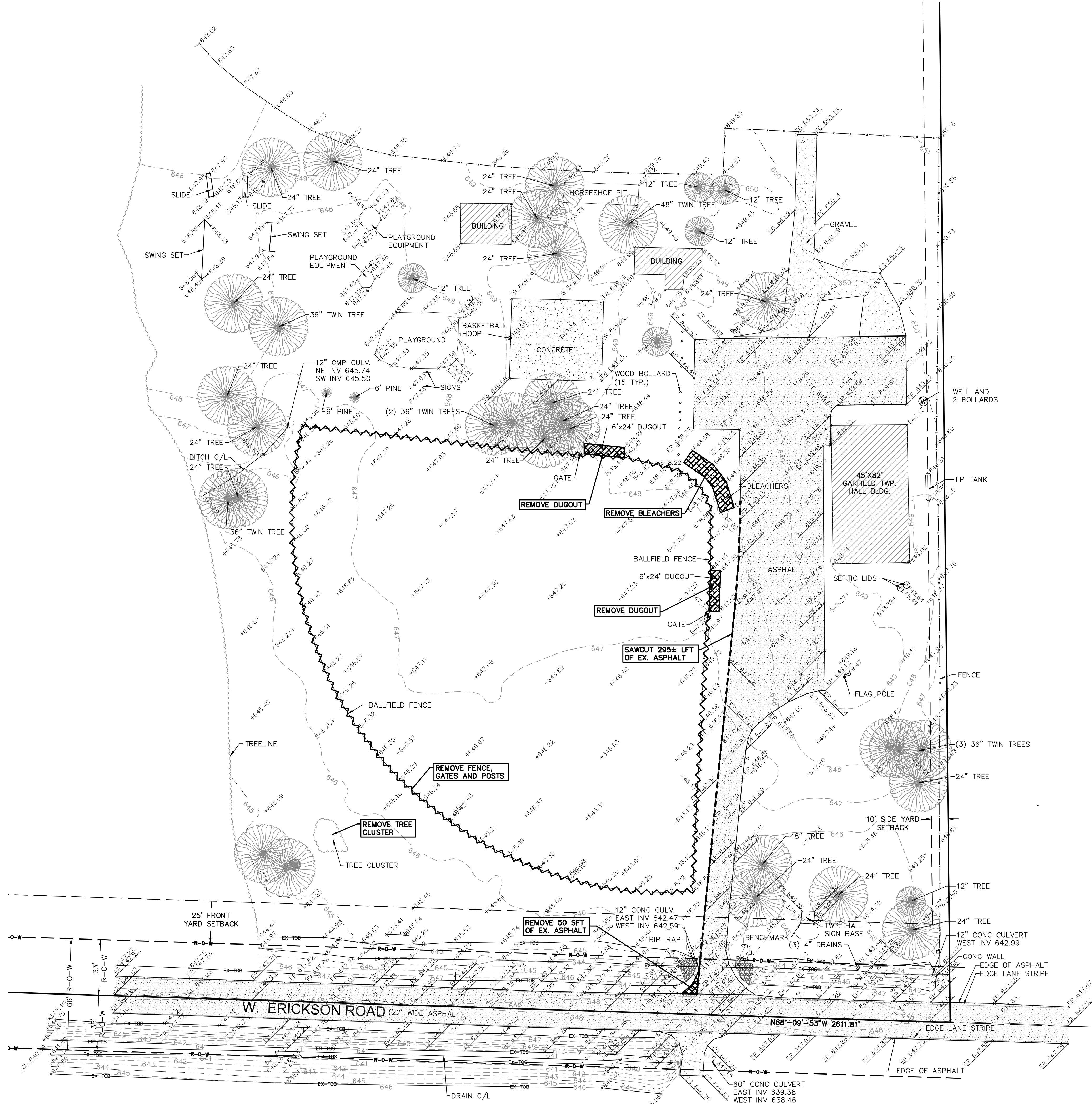
SHEET NUMBER
2 OF 7

- DEMOLITION NOTES:
1. COORDINATE THE SALVAGE OR REMOVAL OF INDICATED MATERIALS WITH THE GARFIELD TOWNSHIP MANAGER.
 2. REMOVAL OF DUGOUTS AND BLEACHERS INCLUDES FOUNDATION REMOVAL.
 3. PROTECT TREES THAT ARE NOT LABELED FOR REMOVAL.
 4. PROTECT EXISTING ASPHALT DRIVEWAY FOR PLANNED DRIVEWAY WIDENING.

DEMOLITION LEGEND

~~~~~ FENCE, GATES AND FENCE POST REMOVAL

▨ DUGOUT & BLEACHER REMOVAL



CMS & D

SURVEYING / ENGINEERING

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FAX: (989) 775-5012  
EMAIL: info@cms-d.com

DEMOLITION PLAN

JBS CONTRACTING INC.

PART OF THE SOUTHWEST 1/4 OF THE SOUTHEAST 1/4,  
SECTION 10, T16N-R03E, GARFIELD TOWNSHIP,  
BAY COUNTY, MICHIGAN

REVISIONS:

SUBMITTALS:

JOB NUMBER:  
2607-078

DRAWN BY:  
RLL

DESIGNED BY:  
TELB

CHECKED BY:  
TELB

SHEET NUMBER

3 of 7

SCALE

1" = 30'

PROPOSED STORM STRUCTURES:

P-STW-1  
CONTROL STRUCTURE  
RIM 646.35  
SE INV. 641.85 (8" N-12)

P-STW-2  
2' DIA HEAVY WALL  
EJ 1040 W/ M1 GRATE  
RIM 648.0  
NW INV 641.40 (8" N-12)  
SE INV 641.40 (8" HDPE DIR BORE)  
2' SUMP

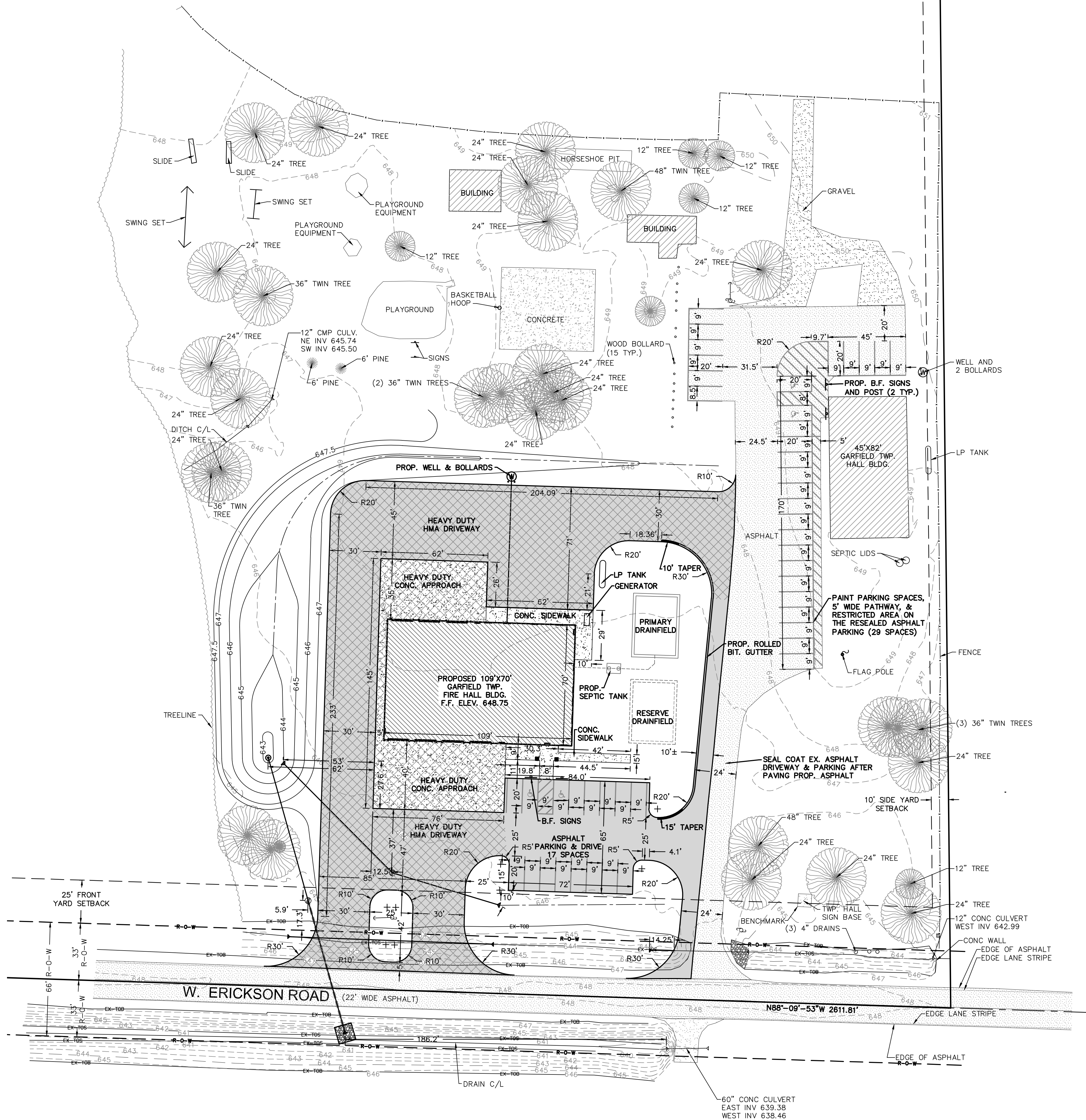
P-STW-3  
2' DIA HEAVY WALL  
EJ 1040 W/ M1 GRATE  
RIM 646.8  
NW INV 644.3 (12" N-12)  
ESE INV 644.3 (12" N-12)  
2' SUMP

BENCHMARK INFORMATION

SOUTHWEST CORNER OF TOWNSHIP SIGN BASE  
ELEVATION: 645.30

FLATWORK LEGEND AND AREA

| SYMBOL | FINISH              | AREA (SFT) |
|--------|---------------------|------------|
|        | EX. ASPHALT         | 17,604     |
|        | EX. CONCRETE        | 2,609      |
|        | EX. GRAVEL          | 3,089      |
|        | EX. BUILDINGS       | 5,181      |
|        | PROP. H.D. ASPHALT  | 23,900     |
|        | PROP. ASPHALT       | 8,180      |
|        | PROP. H.D. CONCRETE | 5,557      |
|        | PROP. CONCRETE      | 1,398      |
|        | PROP. BUILDING      | 7,630      |



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**SITE & HORIZONTAL PLAN**  
JBS CONTRACTING INC.  
PART OF THE SOUTHWEST 1/4 OF THE SOUTHEAST 1/4,  
SECTION 10, T16N-R03E, GARFIELD TOWNSHIP,  
BAY COUNTY, MICHIGAN

SUBMITTALS:  
SUBMITTAL TO CLIENT 9-22-26

JOB NUMBER:  
2607-078

DRAWN BY:  
RLL

DESIGNED BY:  
TELB

CHECKED BY:  
TELB

SCALE  
1" = 30'

SHEET NUMBER  
4 OF 7

P-STM-1  
CONTROL STRUCTURE  
RIM 646.35  
SE INV. 641.85 (8" N-12)

P-STM-2  
2' DIA HEAVY WALL  
EJ 1040 W/ M1 GRATE  
RIM 648.0  
NW INV 641.40 (8" N-12)  
SE INV 641.40 (8" HDPE DIR BORE)  
2' SUMP

P-STM-3  
2' DIA HEAVY WALL  
EJ 1040 W/ M1 GRATE  
RIM 646.8  
NW INV 644.3 (12" N-12)  
ESE INV 644.3 (12" N-12)  
2' SUMP

|                              |            |
|------------------------------|------------|
| Total Drainage Area:         | 2.80 Acres |
| Total Impervious Area:       | 1.20 Acres |
| Total Gravel/Retention Area: | 0.15 Acres |
| Total Pervious Area:         | 1.45 Acres |

|                |              |                              |            |
|----------------|--------------|------------------------------|------------|
| CONTOUR AREAS: |              | Total Drainage Area:         | 2.80 Acres |
| 643 CONTOUR=   | 100.31 SF    | Total Impervious Area:       | 1.20 Acres |
| 644 CONTOUR=   | 1,007.25 SF  | Total Gravel/Retention Area: | 0.15 Acres |
| 645 CONTOUR=   | 3,737.00 SF  | Total Pervious Area:         | 1.45 Acres |
| 646 CONTOUR=   | 7,338.69 SF  |                              |            |
| 647 CONTOUR=   | 11,991.35 SF |                              |            |

CONTOUR VOLUMES:

644.4 CONTOUR= (100.31 + 1,007.25)/2 \* 1 = 553.78 CF

645 CONTOUR= (1,007.25 + 3,737.00)/2 \* 1 = 2,372.13 CF T-VOL= 2,925.91 CF

646 CONTOUR= (3,737.00 + 7,338.69)/2 \* 1 = 5,537.85 CF T-VOL= 8,463.75 CF

**25 YEAR/ 24 HOUR PONDING VOLUME OCCURS @ ELEVATION 646.35 (11,624 CF)**

647 CONTOUR= (7,338.69 + 11,991.35)/2 \* 1 = 9,665.02 CF T-VOL= 18,128.77 CF

**100 YEAR/ 24 HOUR PONDING VOLUME OCCURS @ ELEVATION 647.05 (18,428 CF)**

647.5 CONTOUR= OVERFLOW TOTAL DETENTION VOLUME APPROX. 30,000 CF

Allowable Discharge (0.15 cfs/acre) - 2.8 acres \* 0.15 cfs/acre = 0.42 cfs  
Design Ponding Elevation = 746.35  
Invert of Restrictor Elevation = 741.85

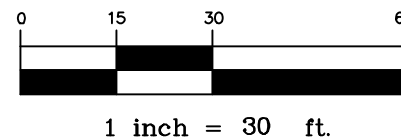
Formula:  $Q = Q_a / [0.62[(64.4(h))^{1/2}]$   
 $Q_a = \text{Area of orifice in sq. ft.}$   
 $Q_a = \text{Allowable outflow}$   
 $h = \text{elevation difference from maximum ponding elevation to centerline of orifice}$   
 $Q = 0.42 \text{ cfs} / 0.62 [(64.4) (746.35 - 741.85)]^{1/2}$   
 $Q = 0.0398 \text{ sft}$   
 $Q = n(D^*D) / 4 = D = 0.225 \text{ ft} = 2.7 \text{ inches} - \text{Use } 2-2\frac{3}{4}$

Therefore the required on site detention for a 25 Year/24 Hour Storm Event is 11,624 cf. The system as proposed provides this storage at the 646.35. The 100 Year/24 Hour Storm Event is 18,428 cf. This occurs at approximately 647.05, leaving 0.45' of freeboard for the 100 year event.

| Hard Surface/Imperv. Area  |                   | Area                             | C                                   | Q                             | P                             | Proposed Runoff "C"             | Storm Runoff                     |
|----------------------------|-------------------|----------------------------------|-------------------------------------|-------------------------------|-------------------------------|---------------------------------|----------------------------------|
| (Acre)                     |                   | (Acre)                           |                                     |                               |                               |                                 |                                  |
| Hard Surface/Imperv. Area  | 0.95              |                                  |                                     |                               |                               |                                 |                                  |
| Grass/Denitication         | 1.15              |                                  |                                     |                               |                               |                                 |                                  |
| Green Space/Lawn           | 0.45              |                                  |                                     |                               |                               |                                 |                                  |
| Cont. Drainage Area (Acre) | 2.50              |                                  |                                     |                               |                               |                                 |                                  |
| C                          |                   | B                                | E                                   | P                             | F                             | G                               | H                                |
| Drainage Division          | Drainage Division | 100 Year Total Rainfall (Inches) | 100 Year Rainfall Intensity (in/hr) | 100 Year Peak Flow Rate (CFS) | Proposed Peak Flow Rate (CFS) | Maximum Allowable Outflow (CFS) | Required Detention Storage (CUY) |
| 5                          | 0.08              | 0.105                            | 0.942                               | 15.50                         | 4.769                         | 4.02                            | 4.643                            |
| 10                         | 0.17              | 0.87                             | 0.60                                | 11.64                         | 6.789                         | 4.62                            | 6.734                            |
| 15                         | 0.25              | 1.12                             | 0.49                                | 8.85                          | 8.520                         | 4.81                            | 8.520                            |
| 20                         | 0.33              | 1.30                             | 0.46                                | 8.20                          | 9.842                         | 4.94                            | 9.338                            |
| 30                         | 0.50              | 1.54                             | 0.41                                | 6.92                          | 12.454                        | 5.02                            | 13.678                           |
| 40                         | 0.64              | 1.75                             | 0.36                                | 6.14                          | 14.762                        | 5.05                            | 16.078                           |
| 50                         | 0.83              | 1.89                             | 0.35                                | 5.77                          | 16.699                        | 5.07                            | 18.320                           |
| 60                         | 1.00              | 1.95                             | 0.32                                | 5.49                          | 18.524                        | 5.02                            | 15,012                           |
| 90                         | 1.50              | 2.27                             | 0.29                                | 4.69                          | 23.048                        | 4.94                            | 17,780                           |
| 120                        | 2.00              | 2.41                             | 0.26                                | 3.89                          | 25,524                        | 4.82                            | 20,170                           |
| 130                        | 2.30              | 2.66                             | 0.26                                | 3.13                          | 26.984                        | 4.82                            | 18,428                           |
| 160                        | 3.00              | 3.11                             | 0.25                                | 1.27                          | 31.338                        | 4.82                            | 18,266                           |
| 172                        | 3.20              | 3.61                             | 0.43                                | 0.73                          | 33.247                        | 4.82                            | 13,203                           |
| 180                        | 3.30              | 3.89                             | 0.34                                | 0.37                          | 37.179                        | 4.82                            | 9,963                            |
| 1440                       | 24.00             | 4.15                             | 0.24                                | 0.41                          | 34,992                        | 4.82                            | 18,276                           |

Maximum = 18,276

| Head Surface Imperv. Area<br>(Acres) |                     | Area<br>(Acres)                             |                                             | C                                     |                                       | G                               |                                       | H                                     |                                       |
|--------------------------------------|---------------------|---------------------------------------------|---------------------------------------------|---------------------------------------|---------------------------------------|---------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|
|                                      |                     | 0.15                                        | 0.30                                        | 0.15                                  | 0.30                                  | Proposed Rainfall "C" Value     |                                       | 0.60                                  | 0.42                                  |
|                                      |                     | 0.15                                        | 0.30                                        | 0.15                                  | 0.30                                  | Maximum Allowable Outflow (CFS) |                                       | 0.42                                  | 0.25                                  |
| Net Draining Area (Acres)            |                     | 2.80 (I)                                    |                                             |                                       |                                       | Storm Retention Interval (Yrs)  |                                       | 25                                    |                                       |
| A                                    | B                   | C                                           | D                                           | E                                     | F                                     | G                               | H                                     | I                                     | J                                     |
| Duration<br>(Hours)                  | Duration<br>(Hours) | 25-Year<br>Rainfall<br>Intensity<br>(in/hr) | 10-Year<br>Rainfall<br>Intensity<br>(in/hr) | Proposed<br>Runoff<br>Factor<br>(CFS) | Proposed<br>Runoff<br>Factor<br>(CFS) | Maximum<br>Runoff<br>(CFS)      | Proposed<br>Runoff<br>Factor<br>(CFS) | Proposed<br>Runoff<br>Factor<br>(CFS) | Proposed<br>Runoff<br>Factor<br>(CFS) |
| 5                                    | 0.08                | 0.50                                        | 6.00                                        | 10.13                                 | 3.038                                 | 0.42                            | 2.912                                 |                                       |                                       |
| 10                                   | 0.17                | 0.87                                        | 5.22                                        | 8.81                                  | 2.585                                 | 0.42                            | 2.503                                 |                                       |                                       |
| 15                                   | 0.25                | 1.02                                        | 4.48                                        | 7.56                                  | 2.080                                 | 0.42                            | 2.046                                 |                                       |                                       |
| 20                                   | 0.33                | 1.30                                        | 3.90                                        | 6.58                                  | 1.898                                 | 0.42                            | 1.794                                 |                                       |                                       |
| 30                                   | 0.50                | 1.54                                        | 3.08                                        | 5.20                                  | 1.936                                 | 0.42                            | 1.860                                 |                                       |                                       |
| 40                                   | 0.67                | 1.75                                        | 2.63                                        | 4.43                                  | 1.631                                 | 0.42                            | 1.623                                 |                                       |                                       |
| 50                                   | 0.83                | 1.89                                        | 2.27                                        | 3.83                                  | 1.462                                 | 0.42                            | 1.456                                 |                                       |                                       |
| 60                                   | 1.00                | 1.95                                        | 1.95                                        | 3.29                                  | 1.164                                 | 0.42                            | 1.2334                                |                                       |                                       |
| 90                                   | 1.50                | 2.27                                        | 1.51                                        | 2.55                                  | 1.370                                 | 0.42                            | 1.1522                                |                                       |                                       |
| 120                                  | 2.00                | 2.41                                        | 1.21                                        | 2.03                                  | 1.641                                 | 0.42                            | 1.1617                                |                                       |                                       |
| 150                                  | 2.30                | 2.66                                        | 0.89                                        | 2.50                                  | 1.610                                 | 0.42                            | 1.1610                                |                                       |                                       |
| 360                                  | 6.00                | 3.11                                        | 0.52                                        | 0.87                                  | 18.893                                | 0.42                            | 9.821                                 |                                       |                                       |
| 720                                  | 12.00               | 3.61                                        | 0.30                                        | 0.51                                  | 21.931                                | 0.42                            | 12.387                                |                                       |                                       |
| 1080                                 | 18.00               | 3.90                                        | 0.22                                        | 0.37                                  | 25.693                                | 0.42                            | 13.524                                |                                       |                                       |
| 1440                                 | 24.00               | 4.15                                        | 0.17                                        | 0.29                                  | 25.911                                | 0.42                            | 11.077                                |                                       |                                       |



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GRADING & STORM WATER  
MANAGEMENT PLAN

JBS CONTRACTING INC.

PART OF THE SOUTHWEST 1/4 OF THE SOUTHEAST 1/4,  
SECTION 10, T16N-R03E, GARFIELD TOWNSHIP,  
BAY COUNTY, MICHIGAN

REVISIONS:

**SUBMITTALS:**  
SUBMITTAL TO CLIENT 9-22-26

**JOB NUMBER:**  
**2607-078**

SCALE  
1" = 30'

| PROPOSED STORM STRUCTURES:       |                   |  |
|----------------------------------|-------------------|--|
| P-STW-1                          | CONTROL STRUCTURE |  |
| RIM 646.35                       |                   |  |
| SE INV. 641.85 (8" N-12)         |                   |  |
| P-STW-2                          | 2' DIA HEAVY WALL |  |
| EJ 1040 W/ M1 GRATE              |                   |  |
| RIM 648.0                        |                   |  |
| NW INV 641.40 (8" N-12)          |                   |  |
| SE INV 641.40 (8" HDPE DIR BORE) |                   |  |
| 2' SUMP                          |                   |  |
| P-STW-3                          | 2' DIA HEAVY WALL |  |
| EJ 1040 W/ M1 GRATE              |                   |  |
| RIM 646.8                        |                   |  |
| NW INV 644.3 (12" N-12)          |                   |  |
| ESE INV 644.3 (12" N-12)         |                   |  |
| 2' SUMP                          |                   |  |

| FLATWORK LEGEND AND AREA |                     |            |
|--------------------------|---------------------|------------|
| SYMBOL                   | FINISH              | AREA (SFT) |
|                          | EX. ASPHALT         | 17,604     |
|                          | EX. CONCRETE        | 2,609      |
|                          | EX. GRAVEL          | 3,089      |
|                          | EX. BUILDINGS       | 5,181      |
|                          | PROP. H.D. ASPHALT  | 23,900     |
|                          | PROP. ASPHALT       | 8,180      |
|                          | PROP. H.D. CONCRETE | 5,557      |
|                          | PROP. CONCRETE      | 1,398      |
|                          | PROP. BUILDING      | 7,630      |

XP

XT

MICHIGAN UNIFIED KEYING SYSTEM

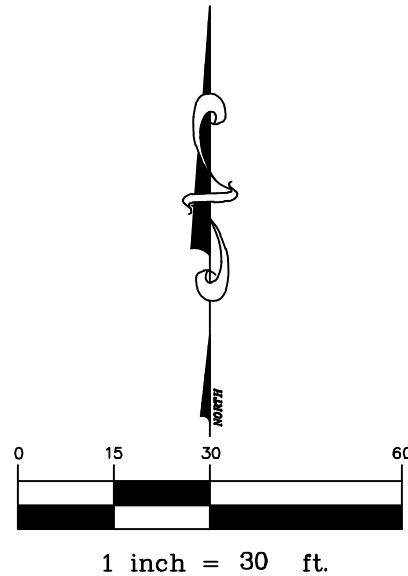
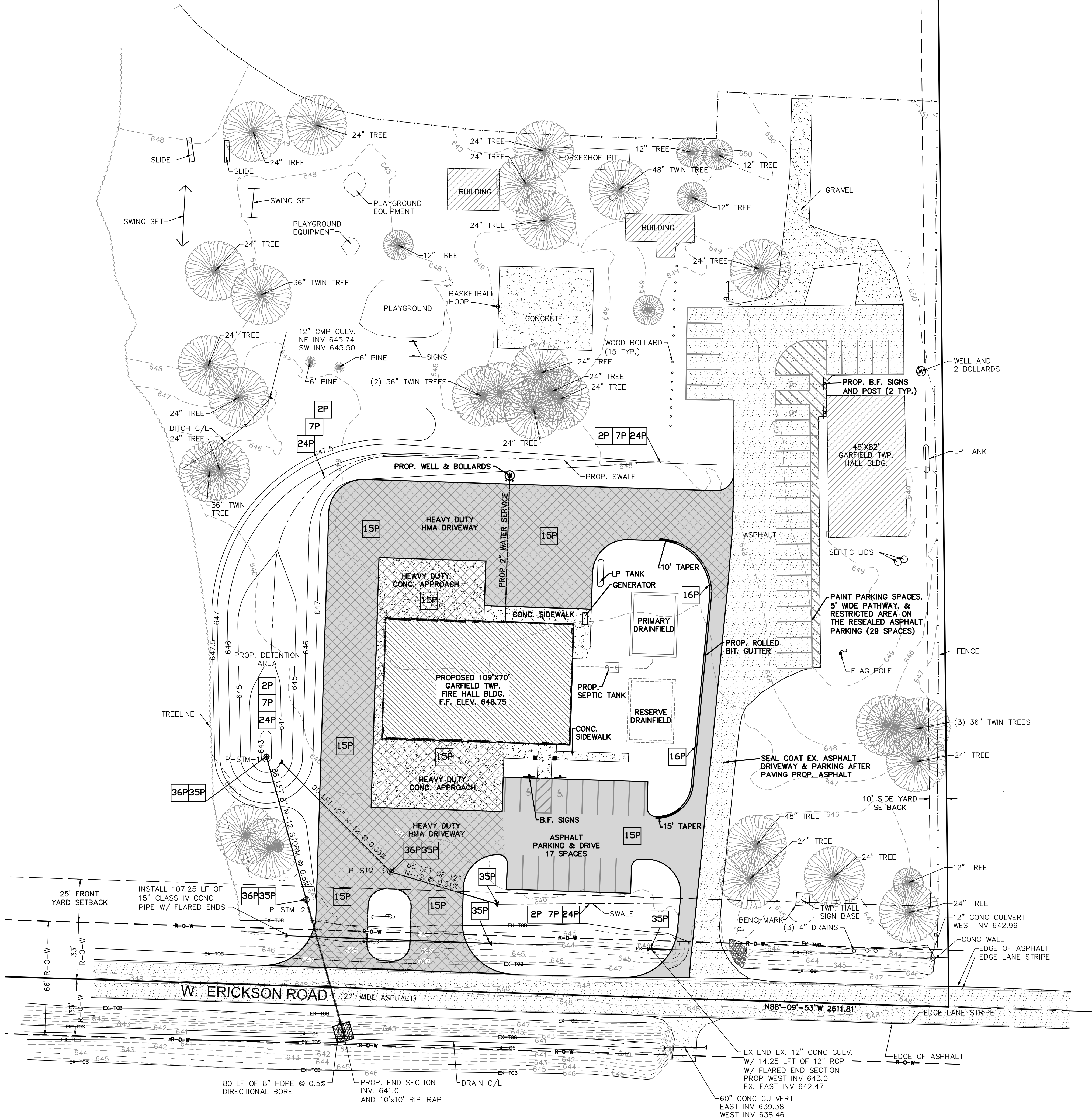
SOIL EROSION & SEDIMENTATION CONTROL MEASURES

P = PERMANENT      T = TEMPORARY

MICHIGAN UNIFIED KEYING SYSTEM

SOIL EROSION & SEDIMENTATION CONTROL MEASURES

| KEY | DETAIL                      | CHARACTERISTICS                                                                                                                                                                                                                           |
|-----|-----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 2   | Selective Grading & Shaping | Water can be diverted to minimize erosion<br>Flatter slopes ease erosion problems                                                                                                                                                         |
| 7   | Hydro-seeding               | Effective on large areas<br>Mulch tacking agent used to provide immediate<br>protection until grass is rooted<br>Should include prepared topsoil bed                                                                                      |
| 15  | Paving                      | Protects areas which cannot otherwise be protected, but increases runoff<br>volume and velocity<br>Irregular surface will help slow velocity                                                                                              |
| 16  | Curb & Gutter               | Keeps high velocity runoff on paved areas from leaving paved surface<br>Collects and conducts runoff to enclosed drainage system or<br>prepared drainageway                                                                               |
| 24  | Crossed Waterway            | Much more stable form of drainageway than bare channel<br>Grass tends to slow runoff and filter out sediment<br>Used where bare channel would be eroded                                                                                   |
| 35  | Storm Sewer                 | System removes collected runoff from site, particularly from paved areas<br>Can accept large concentrations of runoff<br>Conducts runoff to municipal sewer system or stabilized outfall location<br>Use catch basins to collect sediment |
| 36  | Catch Basin, Drain Inlet    | Collects high velocity concentrated runoff<br>May use filter cloth over inlet                                                                                                                                                             |
| 55  | Geotextile Silt Fence       | Controls and Contains sediment from sheet flow conditions.<br>Fabric must be "tied" into the soil 6' or more to prevent underflow.<br>Must be constructed of adequate strength filter fabric and stakes.                                  |



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SOIL EROSION

SEDIMENT CONTROL PLAN

JBS CONTRACTING INC.

PART OF THE SOUTHWEST 1/4 OF THE SOUTHEAST 1/4,

SECTION 10, T16N-R03E, GARFIELD TOWNSHIP,

BAY COUNTY, MICHIGAN

REVISIONS:

SUBMITTAL TO CLIENT 9-22-26

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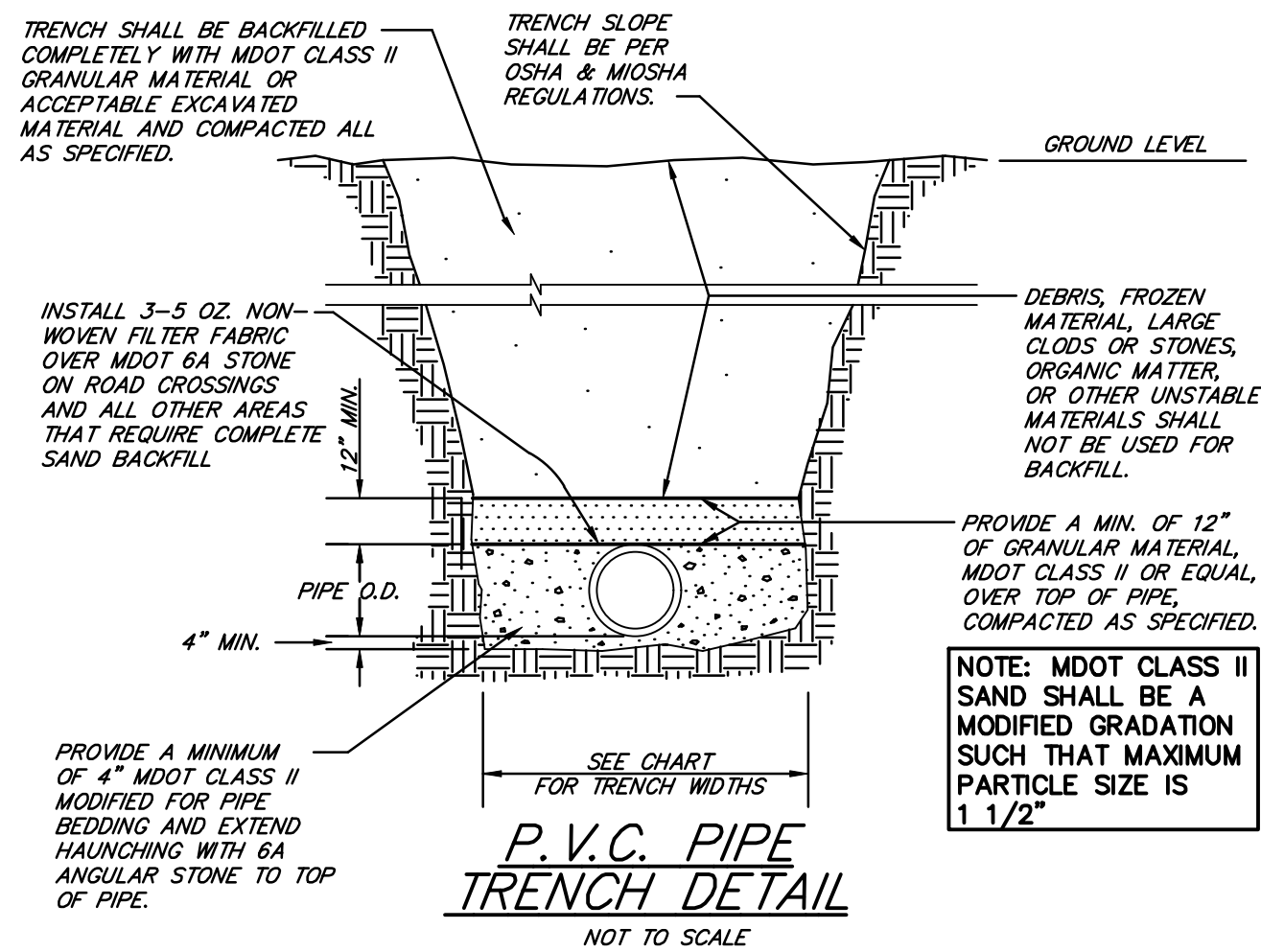
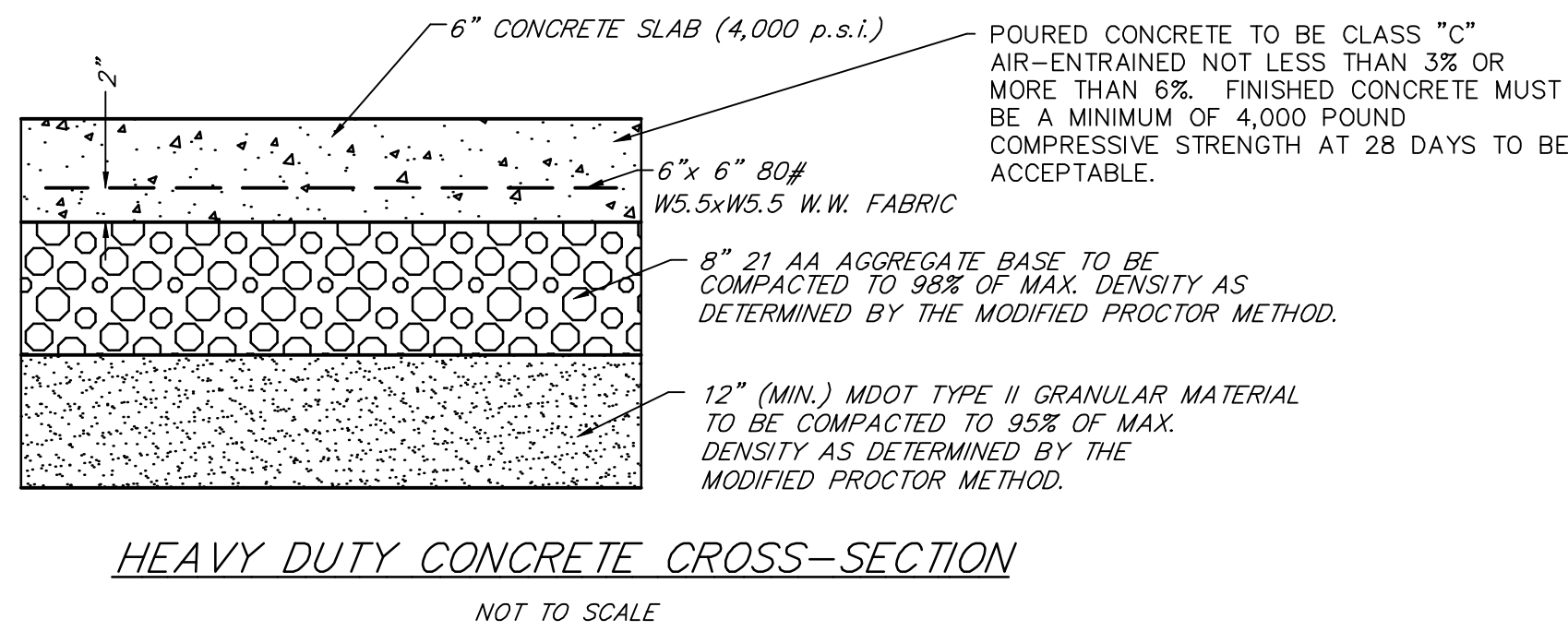
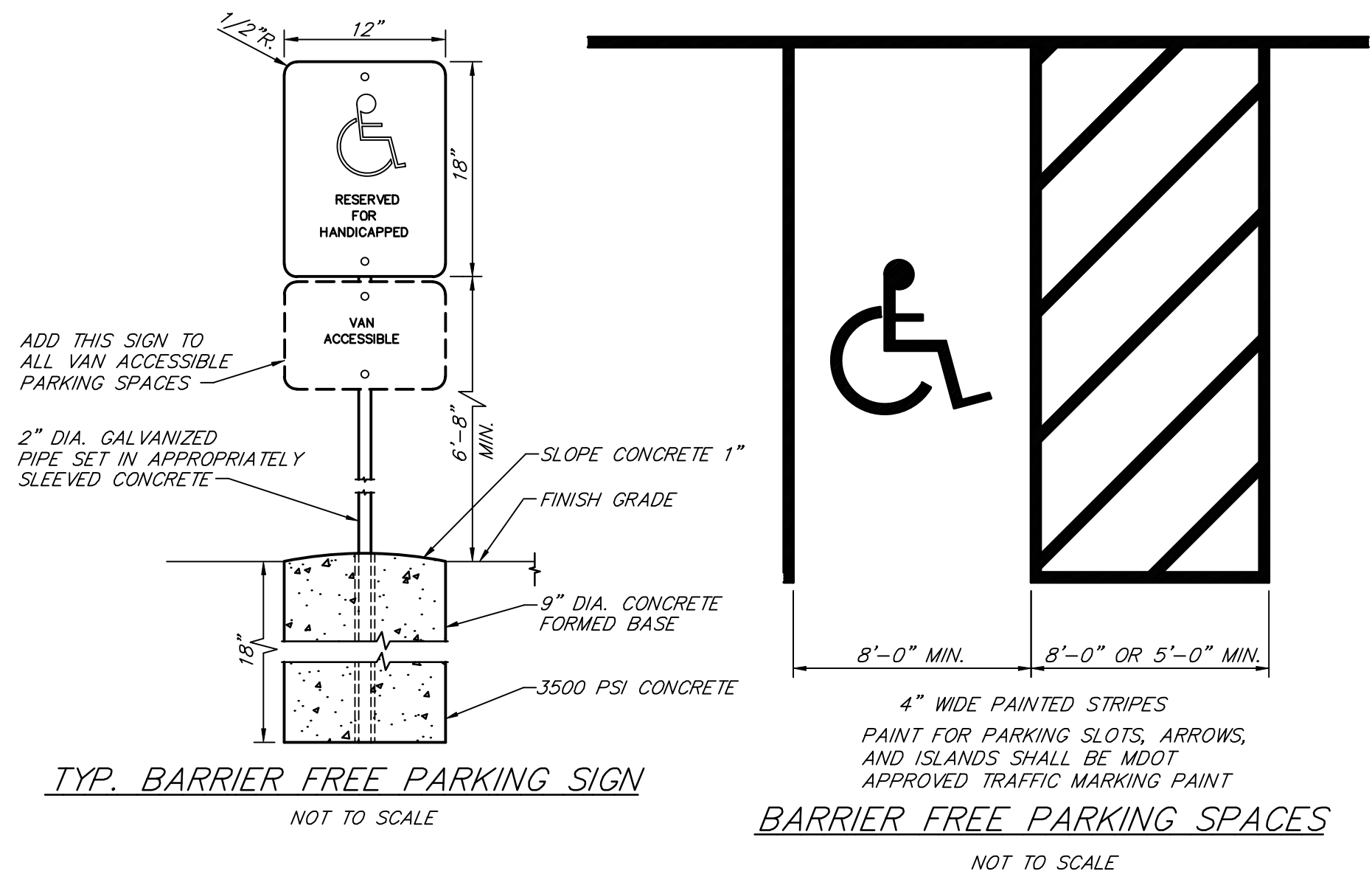
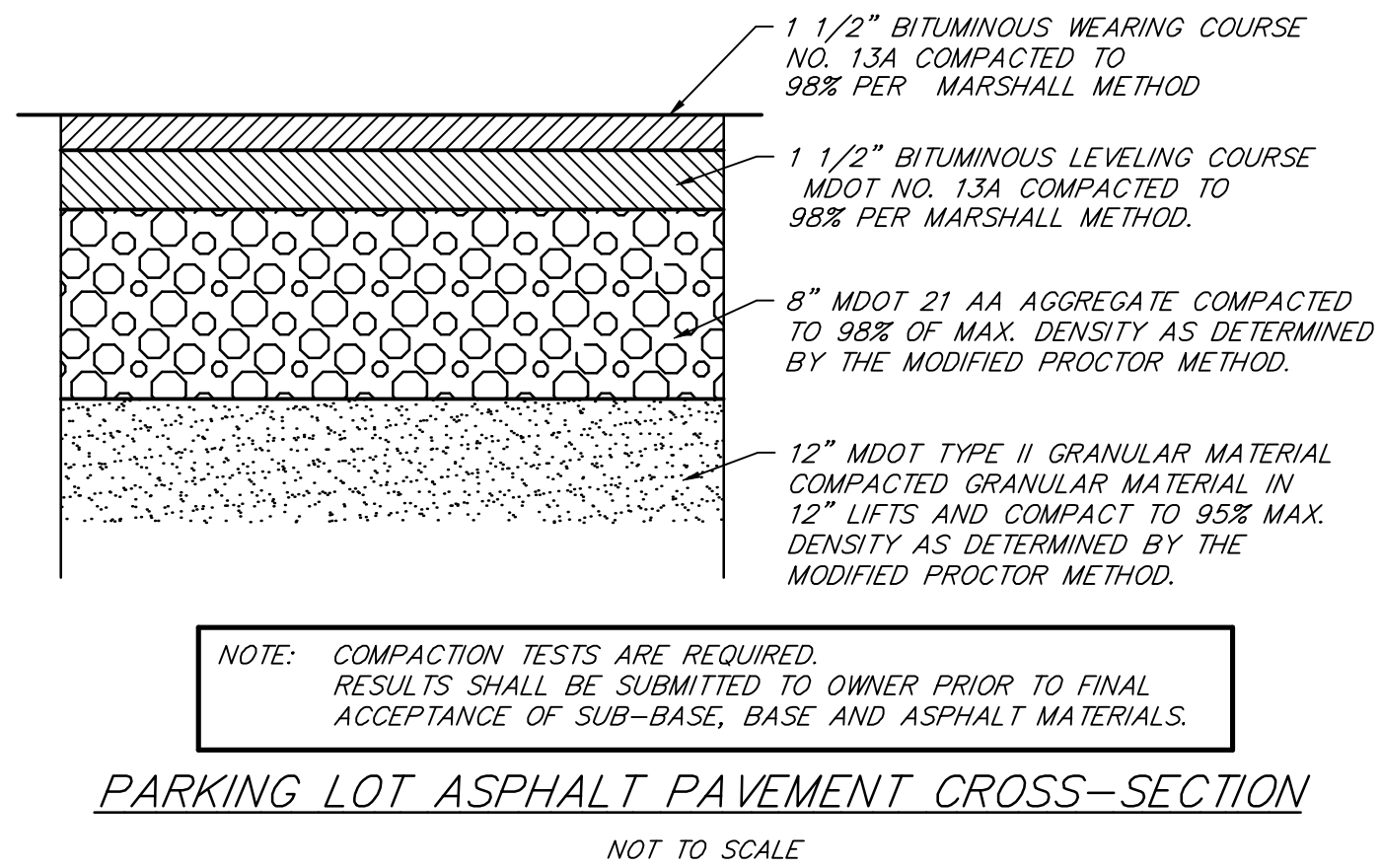
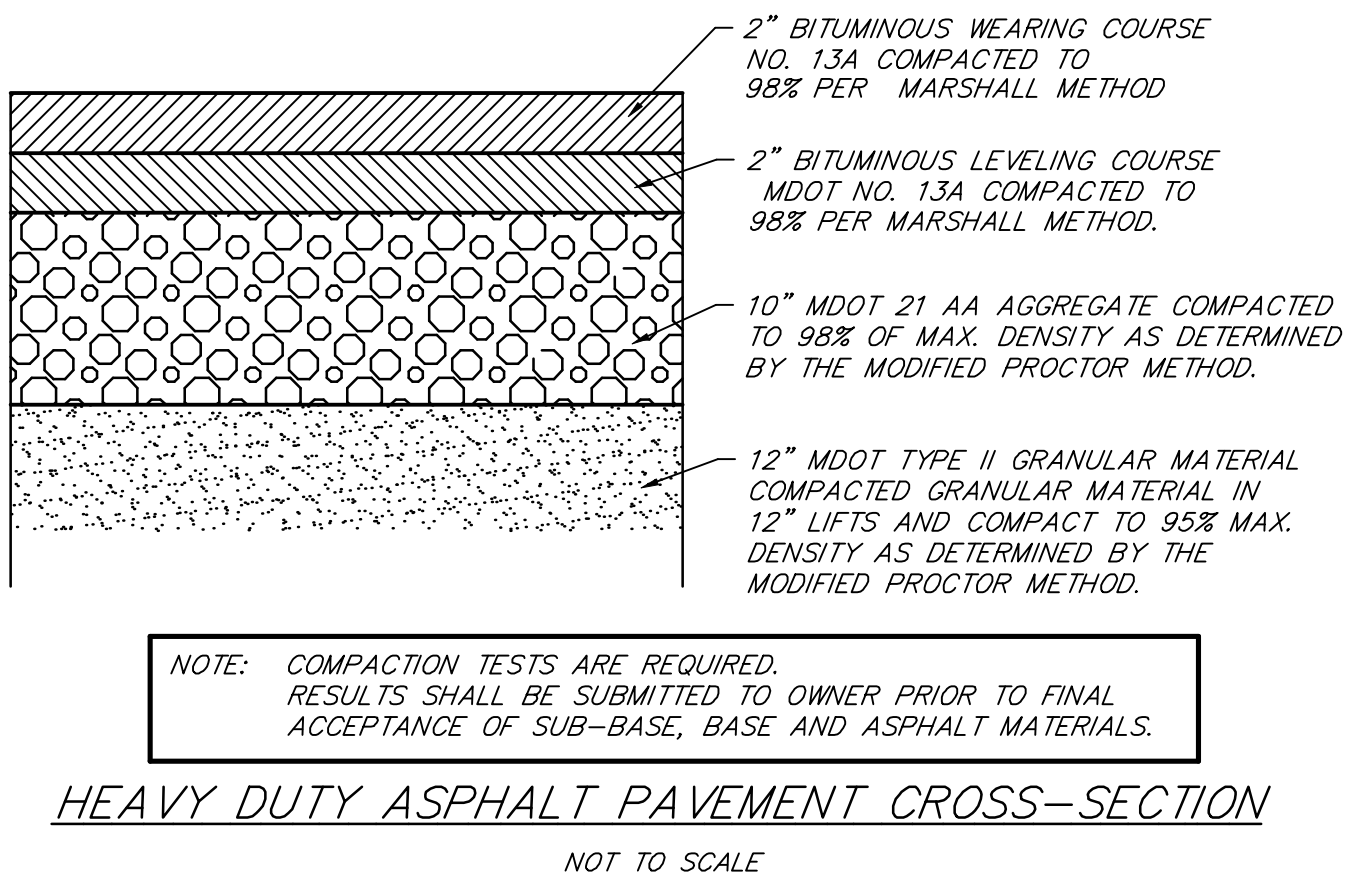
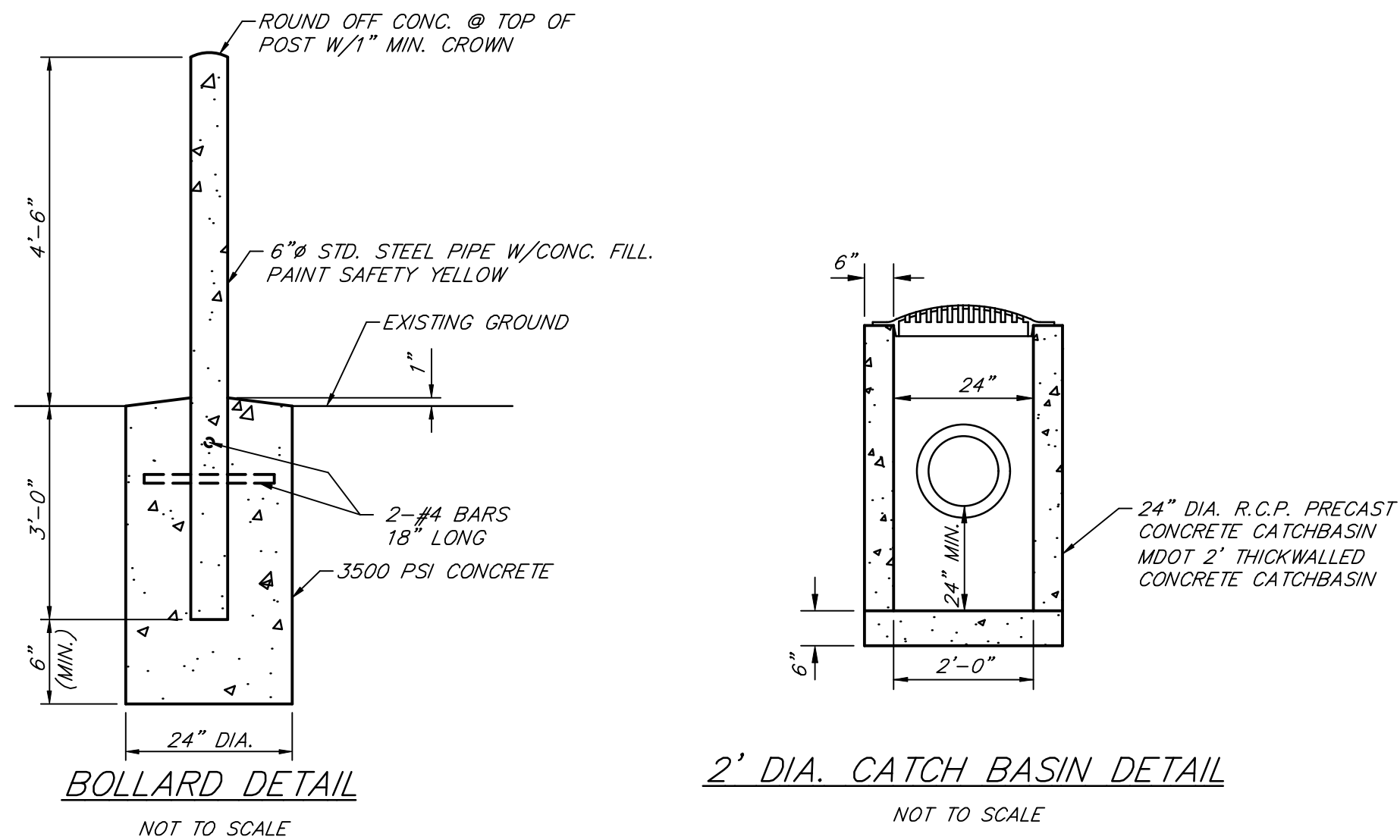
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SCALE

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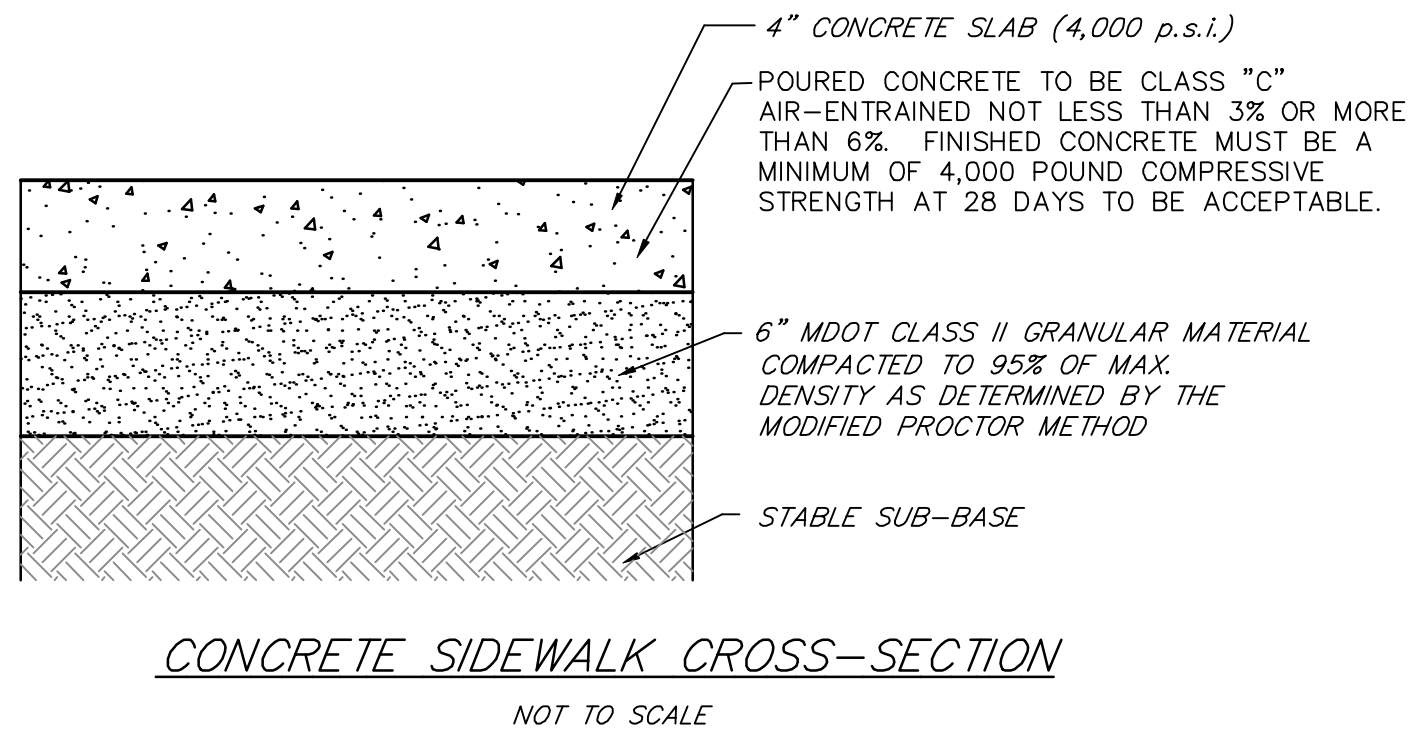
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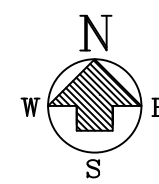
6 OF 7



**TRENCH WIDTH CHART**

| PIPE SIZE       | MINIMUM   | MAXIMUM   |
|-----------------|-----------|-----------|
| 8" & 10"        | 24"       | 30"       |
| 12" & 15"       | 30"       | 36"       |
| 18"             | 36"       | 42"       |
| 21"             | 38"       | 44"       |
| 24"             | 42"       | 46"       |
| 27"             | 45"       | 49"       |
| 30"             | 49"       | 53"       |
| 36"             | 56"       | 60"       |
| LARGER THAN 36" | I.D. +20" | I.D. +24" |





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

1. FOOTINGS ARE DESIGNED TO BEAR ON NATURAL MATERIAL OR ENGINEERED FILL WITH AN ALLOWABLE 2000 PSF SOIL BEARING CAPACITY (VERIFY IN THE FIELD BY A QUALIFIED TESTING AGENCY). IF BEARING CAPACITY IS NOT ACHIEVED AT THE BEARING ELEVATION, THE FOOTING SHALL BE ENLARGED OR LOWEROED. NOTIFY ENGINEER FOR REQUIRED ADJUSTMENTS.
2. REINFORCEMENT SHALL BE CL. LEAF ANGRULAR MATERIAL, COMPACT FILL TO 95% STANDARD PROCTOR.
3. EXERCISE CARE WHEN BACK FILLING WALLS, EXCEPT FOR WALLS WITH EO.
4. UAL AMOUNTS OF FILL ON BOTH SIDES. BACK FILLING (FILL ON ONE SIDE) SHALL NOT BE DONE UNTIL THE FLOOR OR ROOF STRUCTURE IS IN PLACE AND THE WALL HAS ACHIEVED ITS DESIGN STRENGTH.
5. COORDINATE ALL UNDERGROUND WORK WITH MECHANICAL AND ELECTRICAL TRADES (IF ANY). VERIFY AND COORDINATE ALL SLEEVE PENETRATIONS, EMBEDDED ITEMS, ETC. WITH ANGRULAR MATERIAL TRADES.
6. CONCRETE SLAB DESIGN CAPACITY: 4" & 8" 4,000 PSI. 28 DAY. WITH GA WELDED WIRE MESH CONCRETE FOOTING DESIGN CAPACITY: 3,500 PSI
7. REINFORCEMENT STEEL FRY 60,000 PSI.
8. REINFORCEMENT TO HAVE MIN. 3" COVER.
9. FOOTINGS FORMED TO MEET SIZES PER PRINTS.
10. CONCRETE MATERIAL, PLACEMENT, ETC. SHALL BE IN ACCORDANCE WITH ACI MANUAL OF CONCRETE PRACTICE.

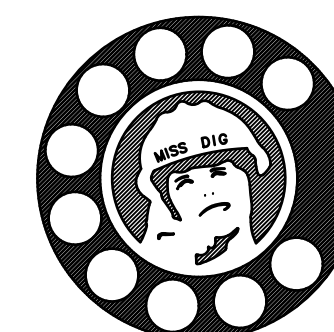
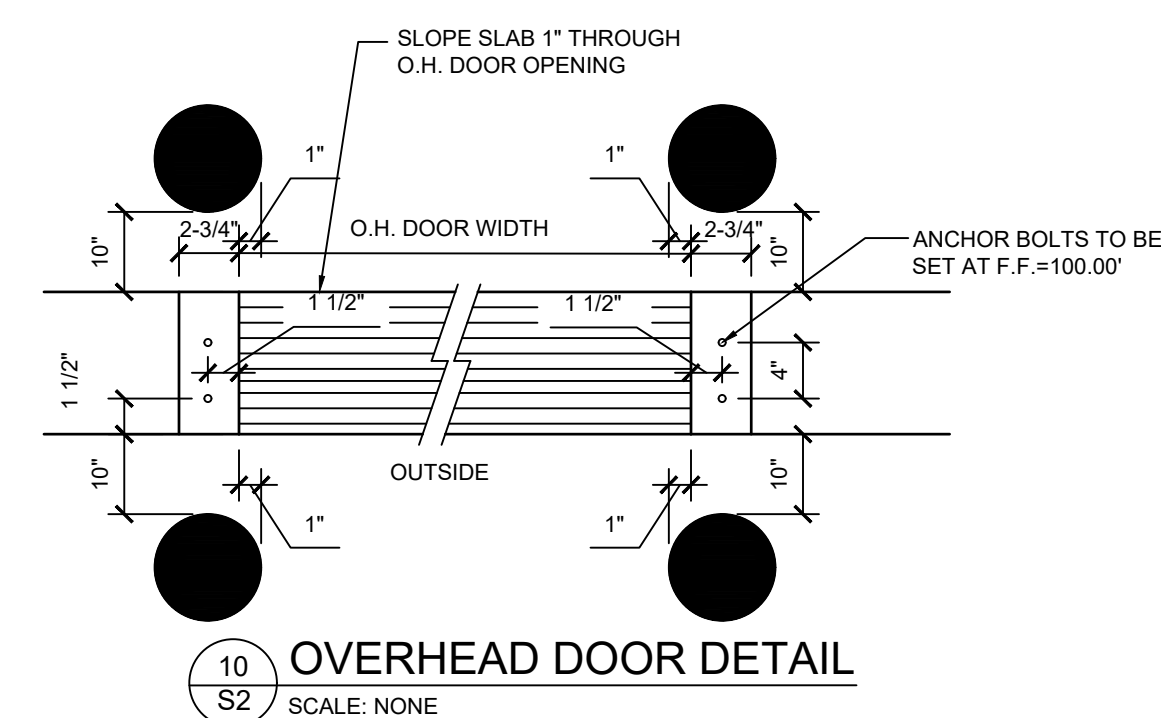
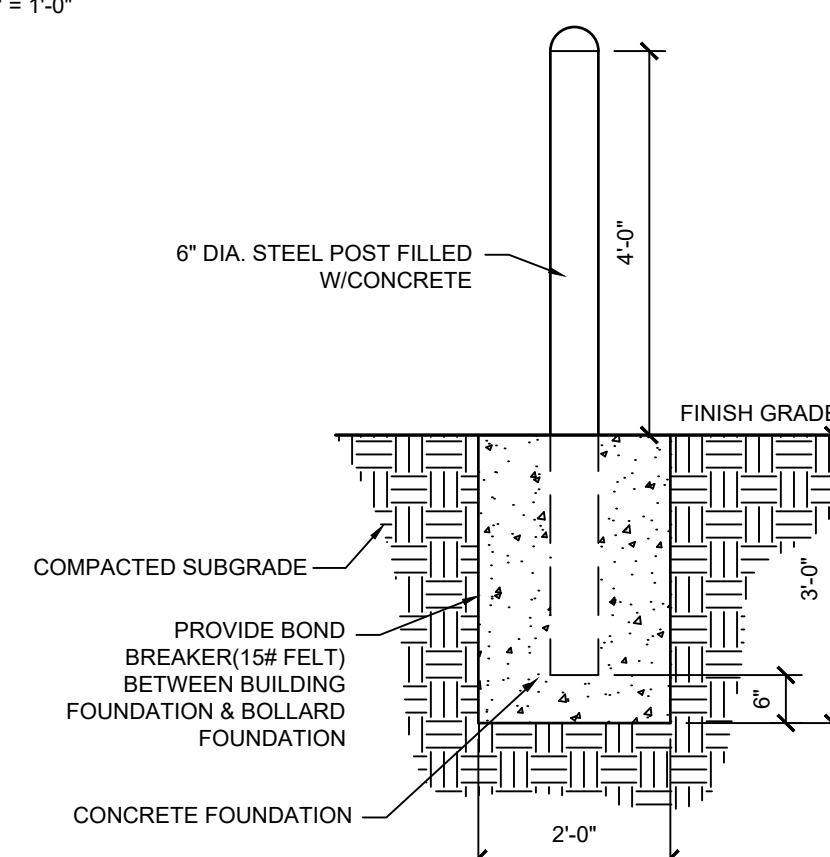
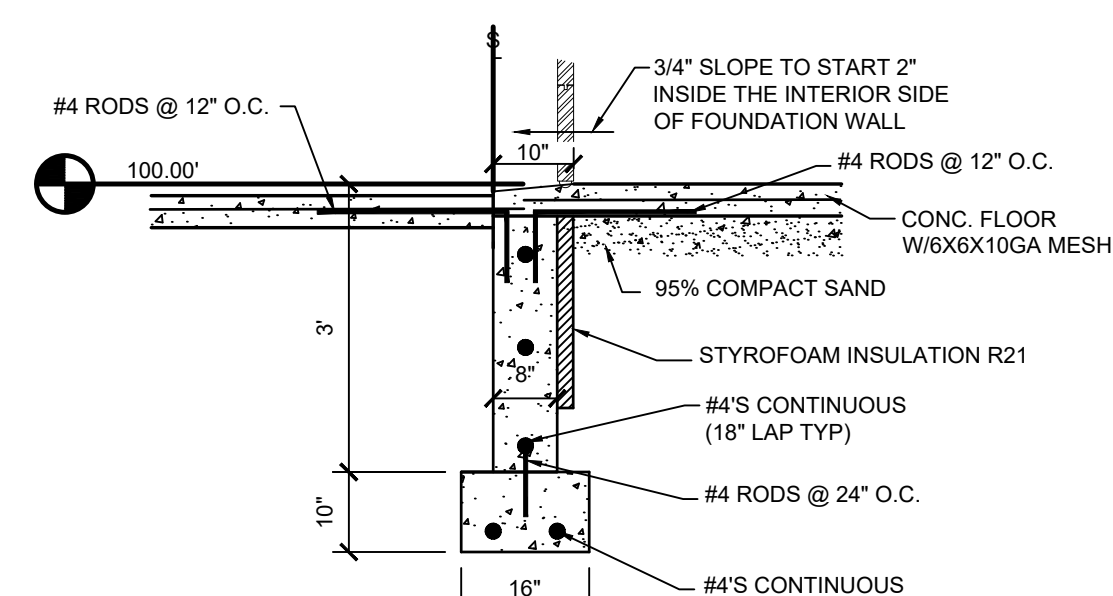
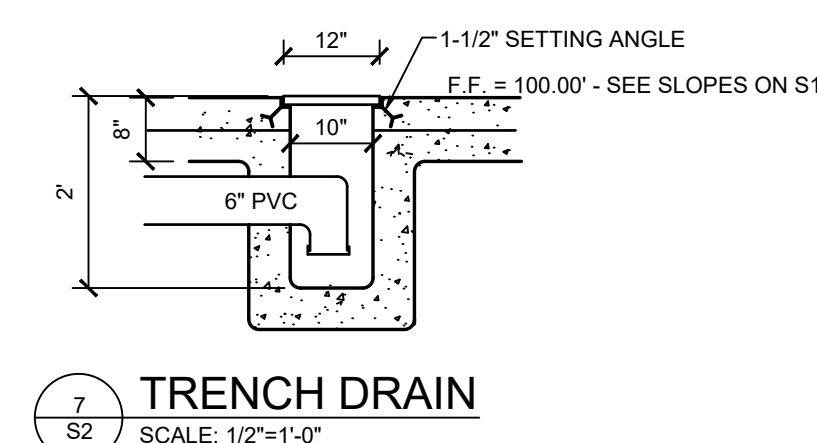
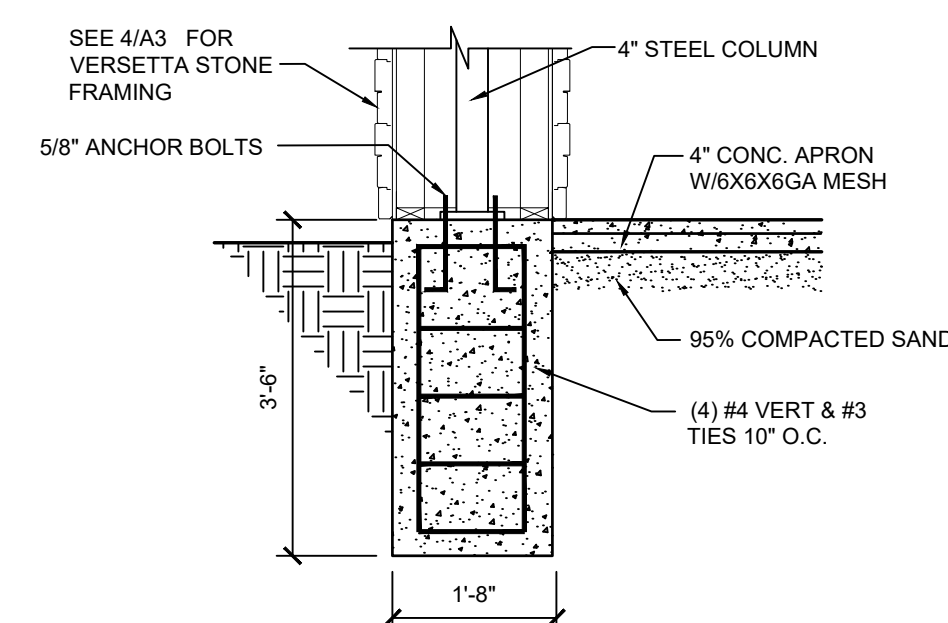
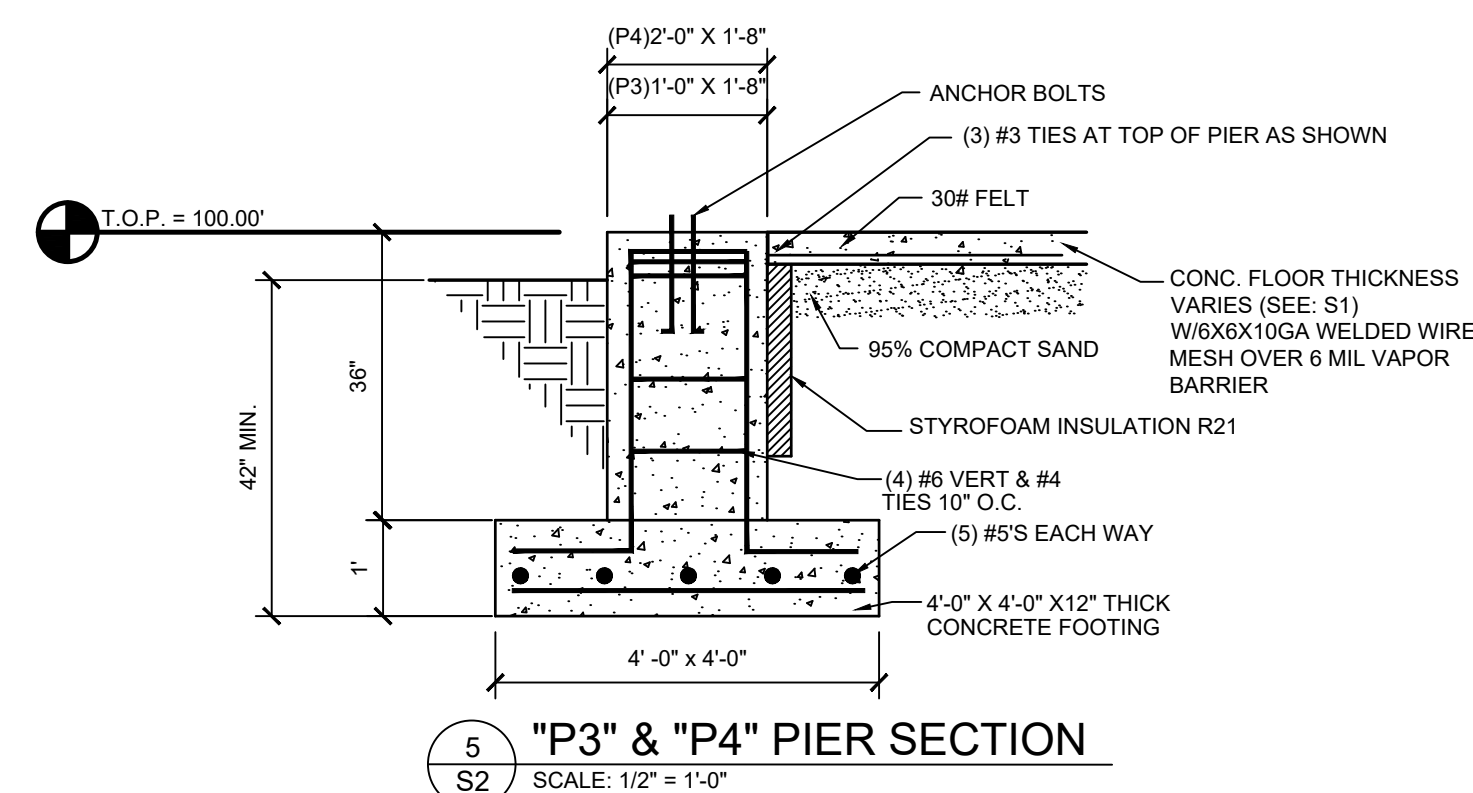
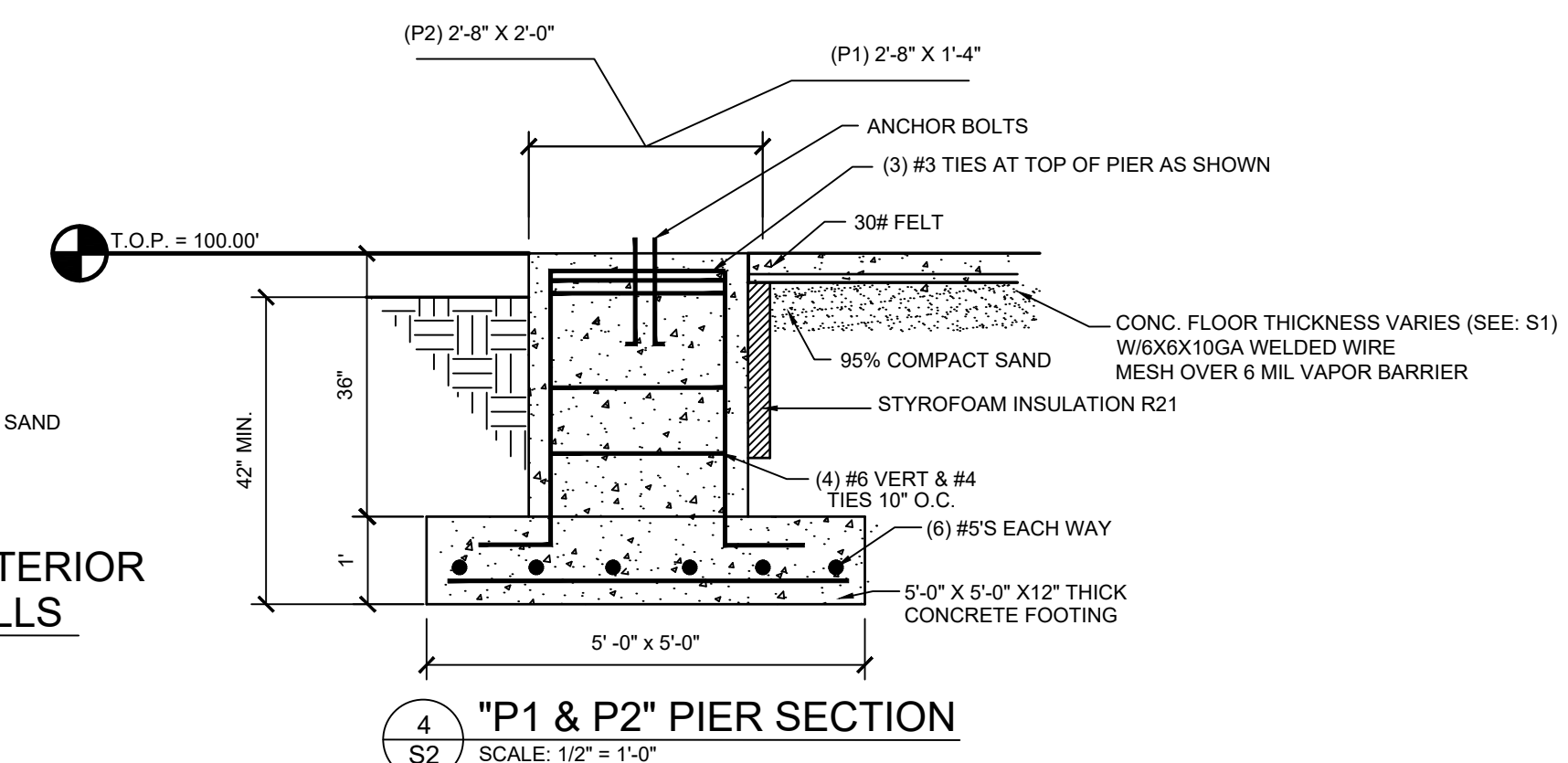
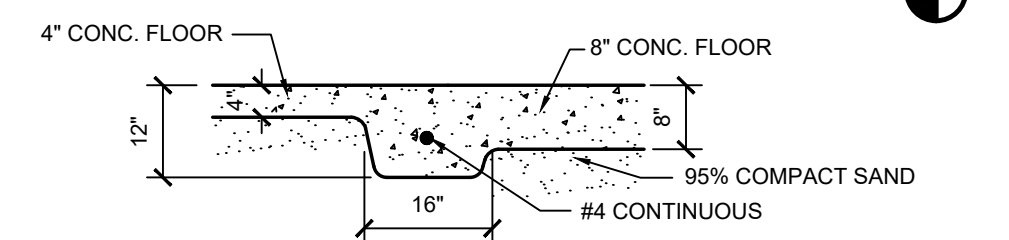
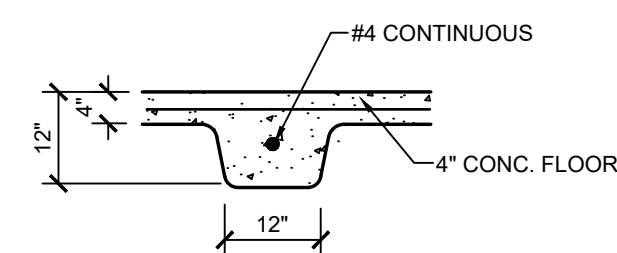
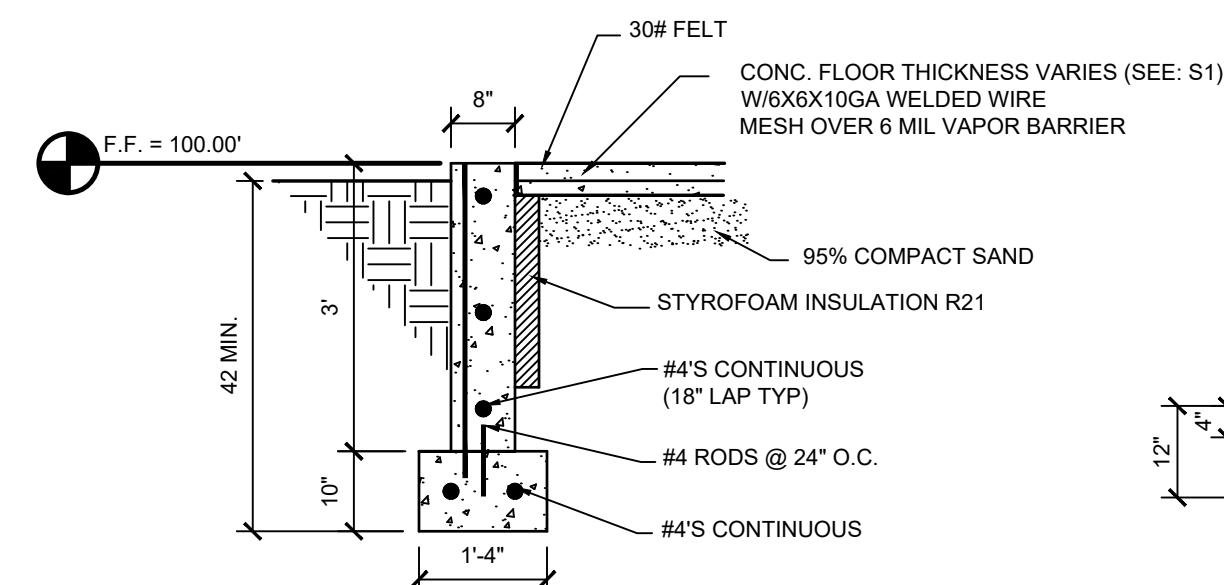
*S1*

FOUNDATION PLAN

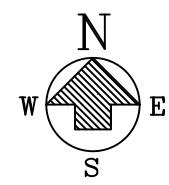
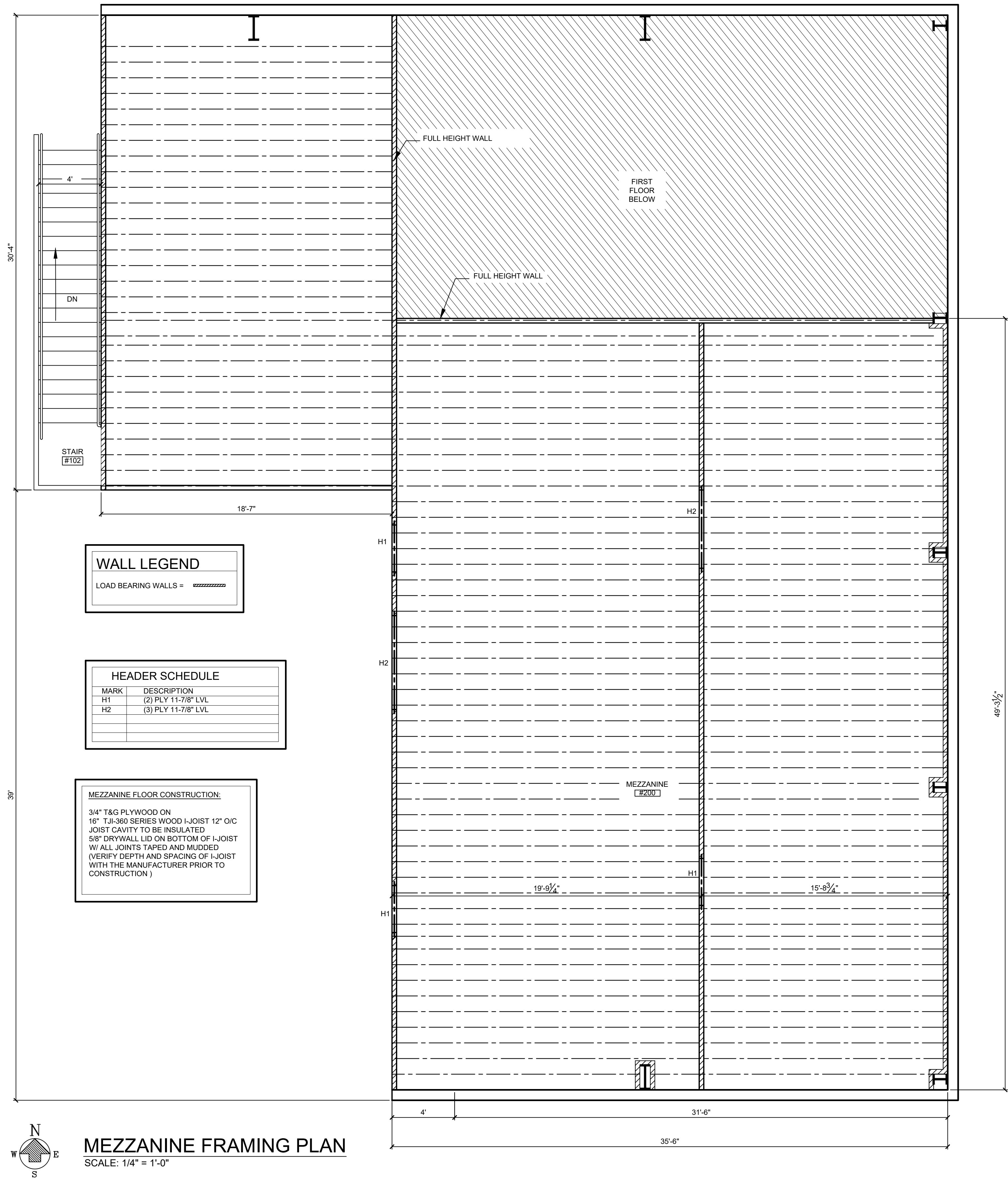
GARFIELD TOWNSHIP  
FIRE DEPARTMENT  
1242 W. ERICKSON RD.  
LINWOOD, MICHIGAN 48634

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| TAG:      | DATE: | CHANGE: |
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|           |       |         |
|           |       |         |



**MEZZANINE FRAMING PLAN**  
SCALE: 1/4" = 1'-0"

| WALL LEGEND          |  |
|----------------------|--|
| LOAD BEARING WALLS = |  |

| HEADER SCHEDULE |                     |
|-----------------|---------------------|
| MARK            | DESCRIPTION         |
| H1              | (2) PLY 11-7/8" LVL |
| H2              | (3) PLY 11-7/8" LVL |
|                 |                     |
|                 |                     |

| MEZZANINE FLOOR CONSTRUCTION:           |  |
|-----------------------------------------|--|
| 3/4" T&G PLYWOOD ON                     |  |
| 16" TJI-360 SERIES WOOD I-JOIST 12" O/C |  |
| JOIST CAVITY TO BE INSULATED            |  |
| 5/8" DRYWALL LID ON BOTTOM OF I-JOIST   |  |
| W/ ALL JOINTS TAPED AND MUDD            |  |
| (VERIFY DEPTH AND SPACING OF I-JOIST    |  |
| WITH THE MANUFACTURER PRIOR TO          |  |
| CONSTRUCTION )                          |  |



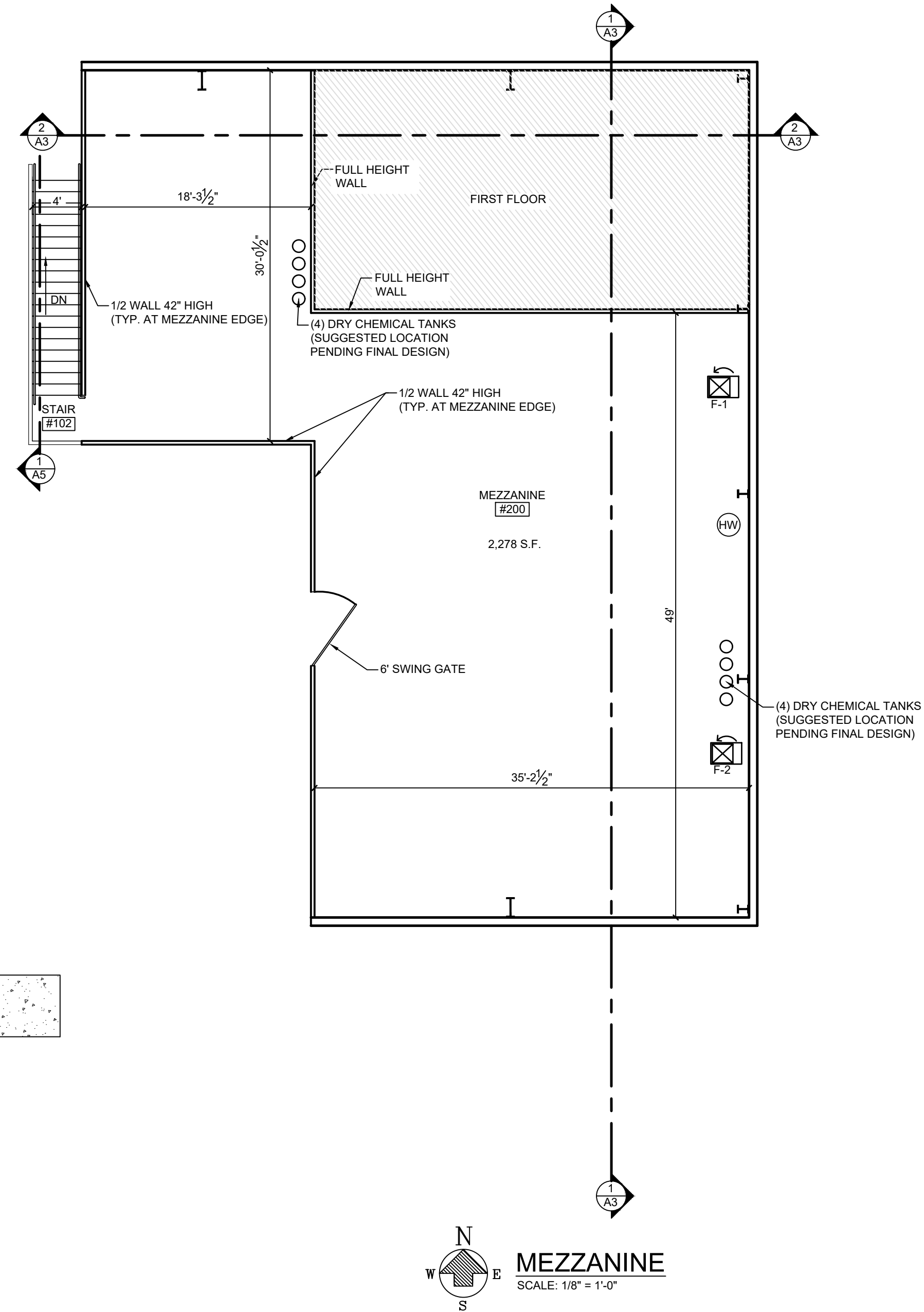
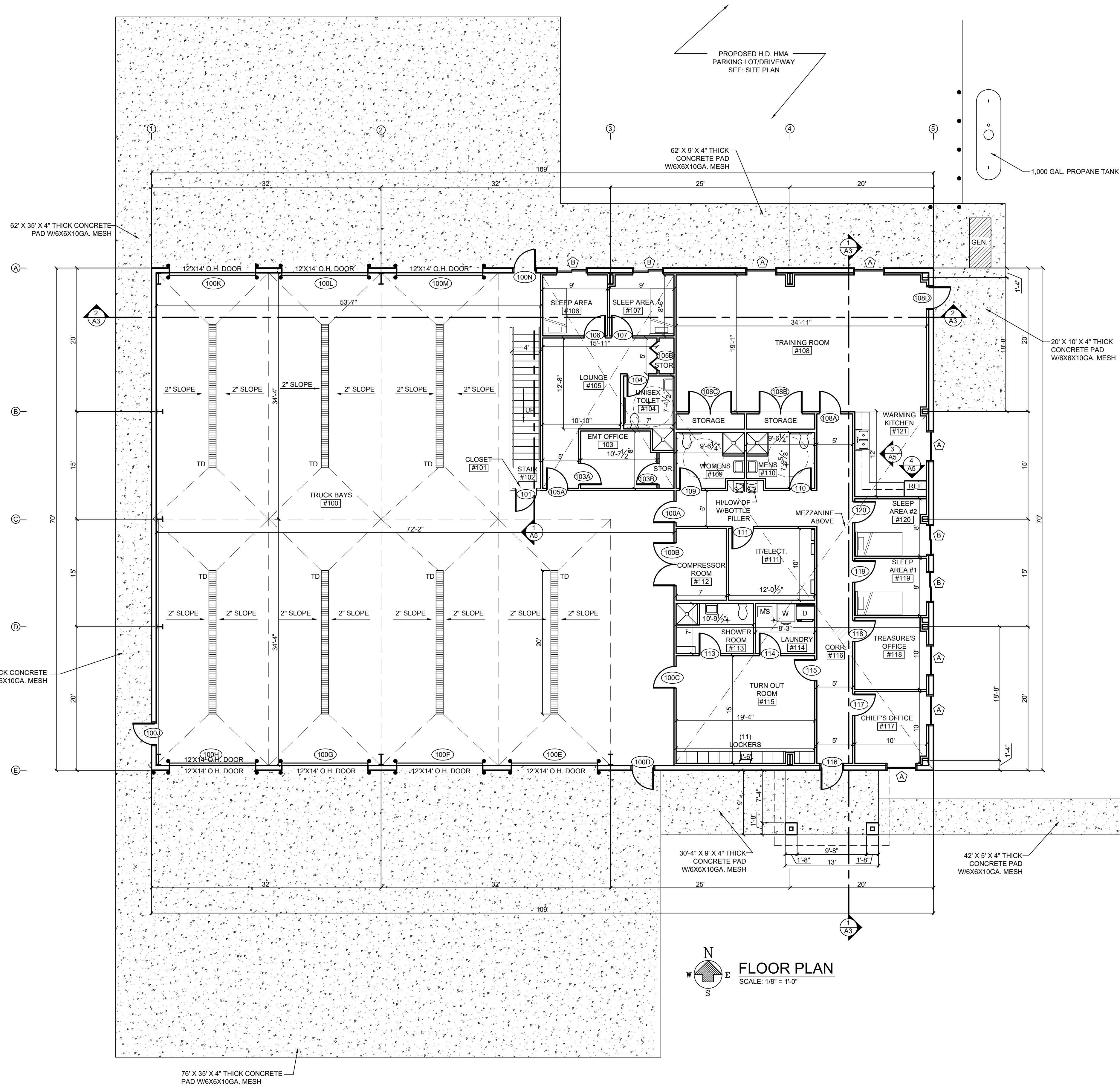
| REVISIONS |       |         |
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|                            |
|----------------------------|
| JOB NUMBER:                |
| DRAWING: MEZZANINE FRAMING |
| DRAWN BY: DJC              |
| REVIEWED BY:               |
| FIELD SUPERVISOR:          |
| DATE: 10-5-2026            |

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N  
W E  
S  
FLOOR PLAN  
SCALE: 1/8" = 1'-0"

N  
W E  
S  
MEZZANINE  
SCALE: 1/8" = 1'-0"



3 WORKING DAYS |  
BEFORE YOU DIG  
CALL MISS DIG  
1-800-482-7171  
FOR THE LOCATION OF  
UNDERGROUND FACILITIES

| REVISIONS |      |        |
|-----------|------|--------|
| TAG       | DATE | CHANGE |
|           |      |        |
|           |      |        |
|           |      |        |

|                     |
|---------------------|
| JOB NUMBER:         |
| DRAWING: FLOOR PLAN |
| DRAWN BY: DJC       |
| REVIEWED BY:        |
| FIELD SUPERVISOR:   |
| DATE: 9-10-2026     |

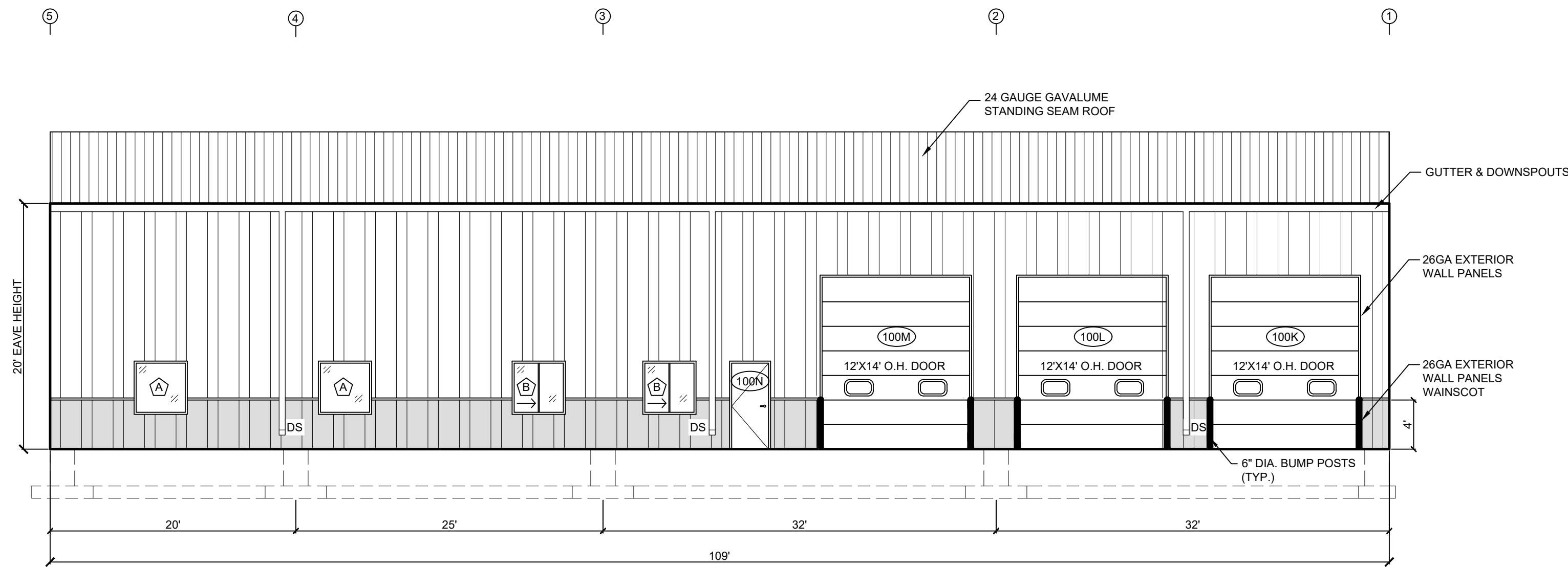
GARFIELD TOWNSHIP  
FIRE DEPARTMENT  
1242 W. ERICKSON RD.  
LINWOOD, MICHIGAN 48634

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CONSTRUCTION

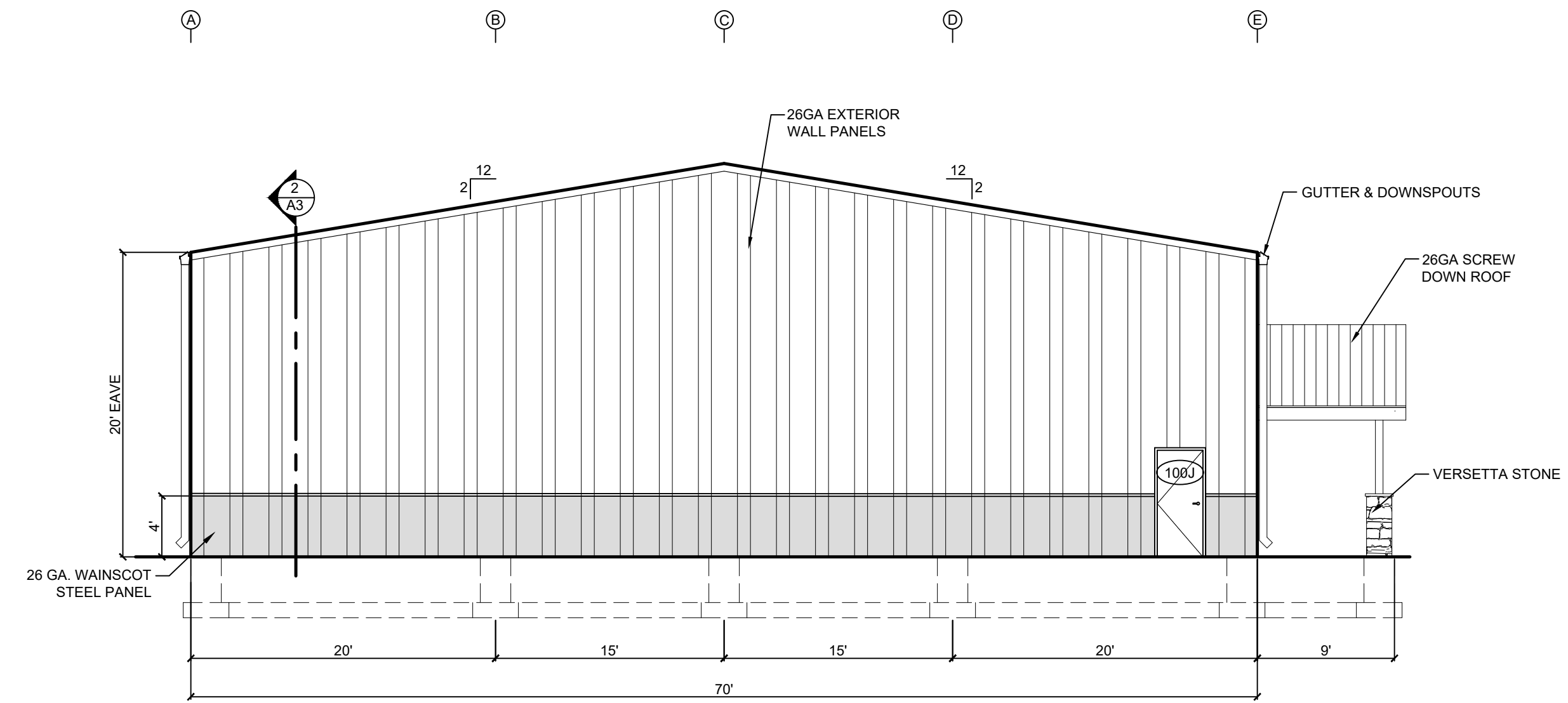
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1680 COVER PARKWAY  
MT. PLEASANT, MI 48858  
(989) 775-0770

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

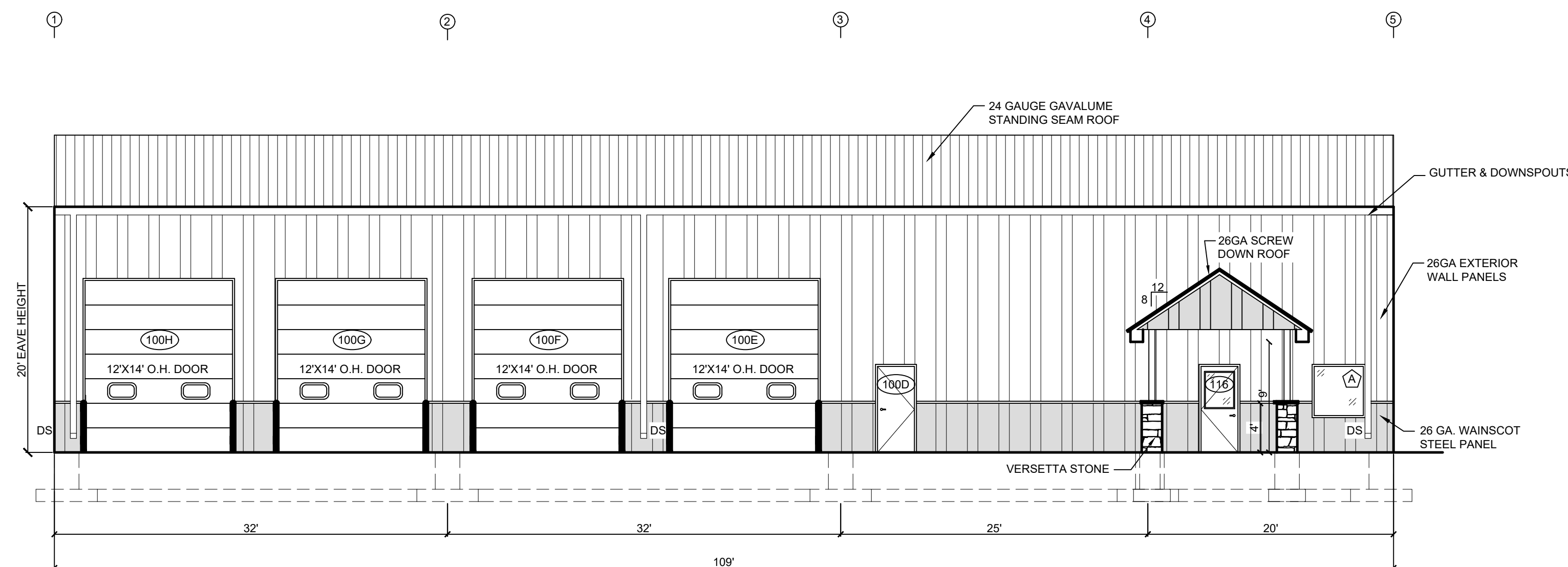
**A1**  
FLOOR PLAN



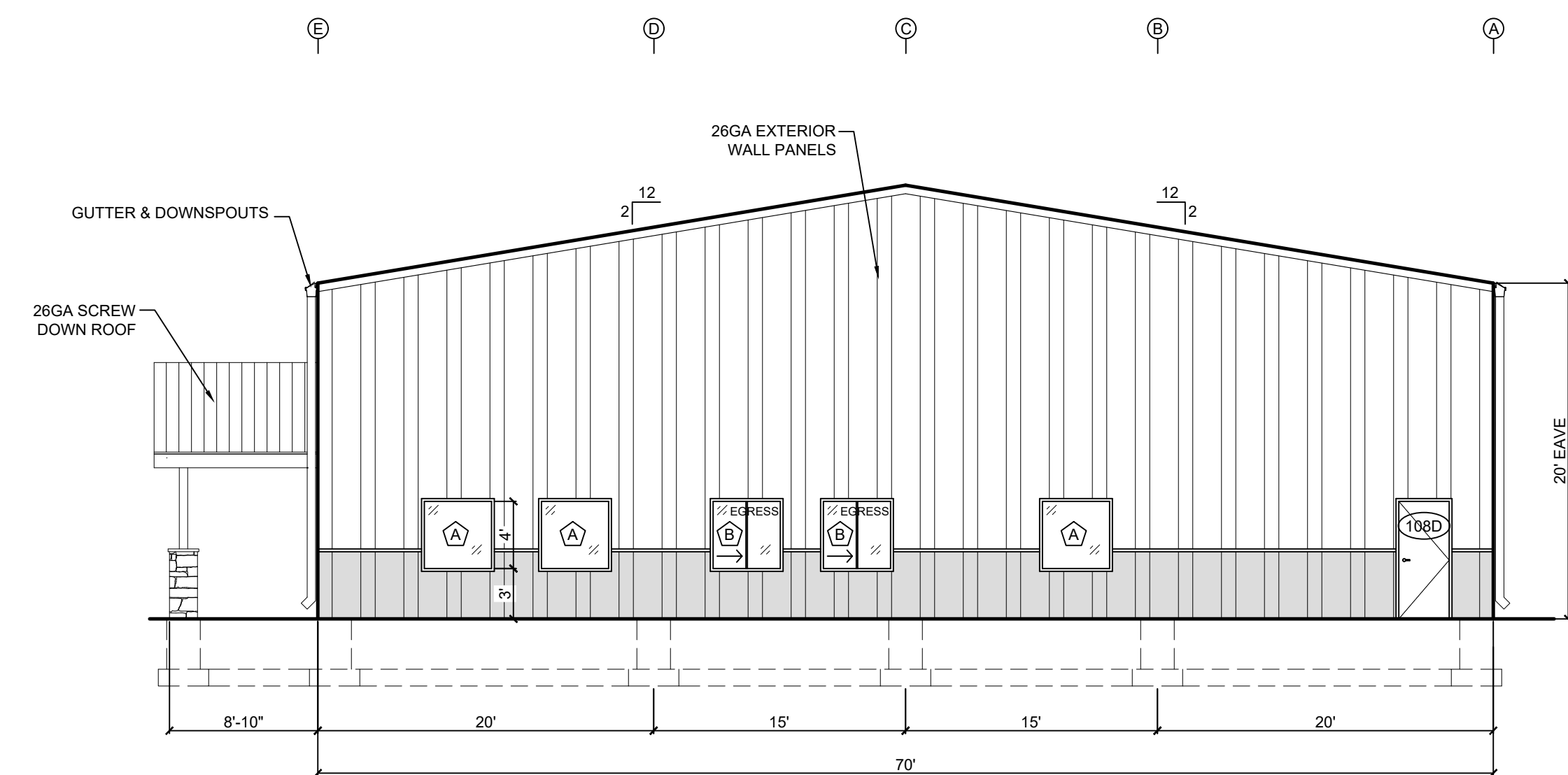
**NORTH ELEVATION**  
SCALE: 1/8" = 1'-0"



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



**SOUTH ELEVATION**  
SCALE: 1/8" = 1'-0"



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

JOB NUMBER:  
DRAWING: EXTERIOR ELEVATION  
DRAWN BY: DXG  
REVIEWED BY:  
FIELD SUPERVISOR:  
DATE: 10-5-2026

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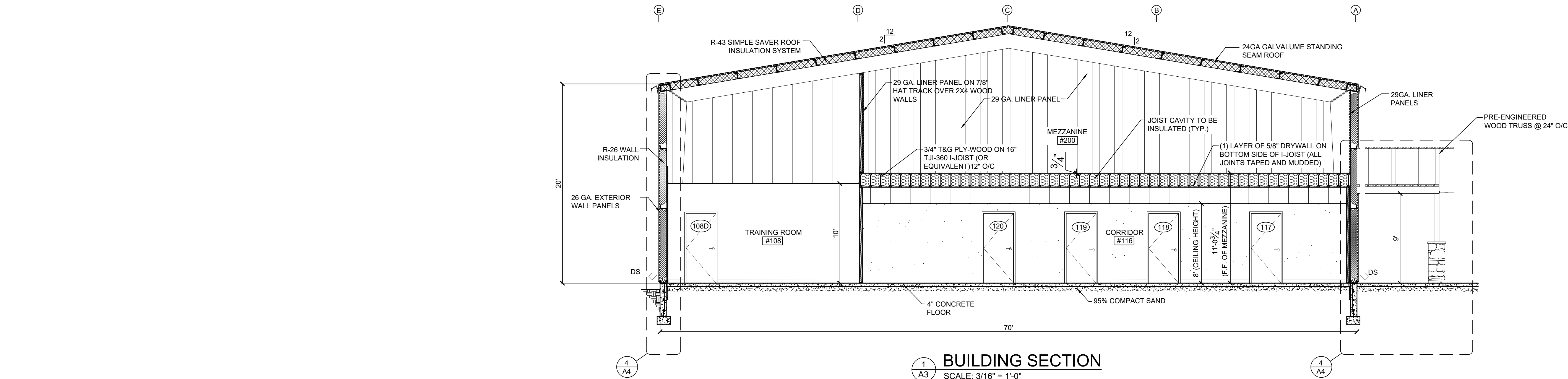
SCALE:  
1/8" = 1'-0"

**A2**  
EXTERIOR ELEVATION

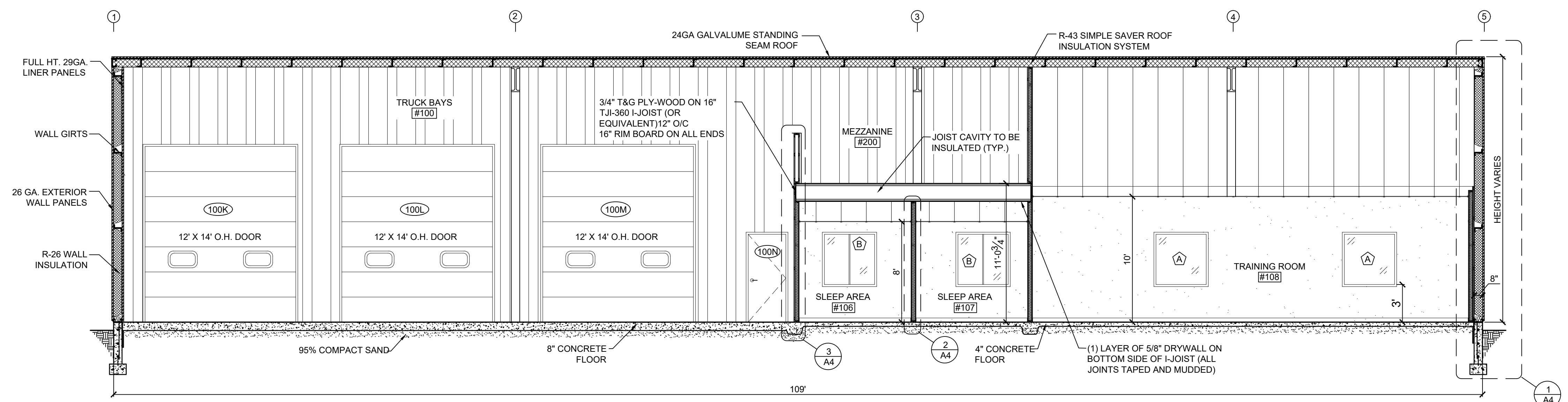


3 WORKING DAYS |  
BEFORE YOU DIG  
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FOR THE LOCATION OF  
UNDERGROUND FACILITIES

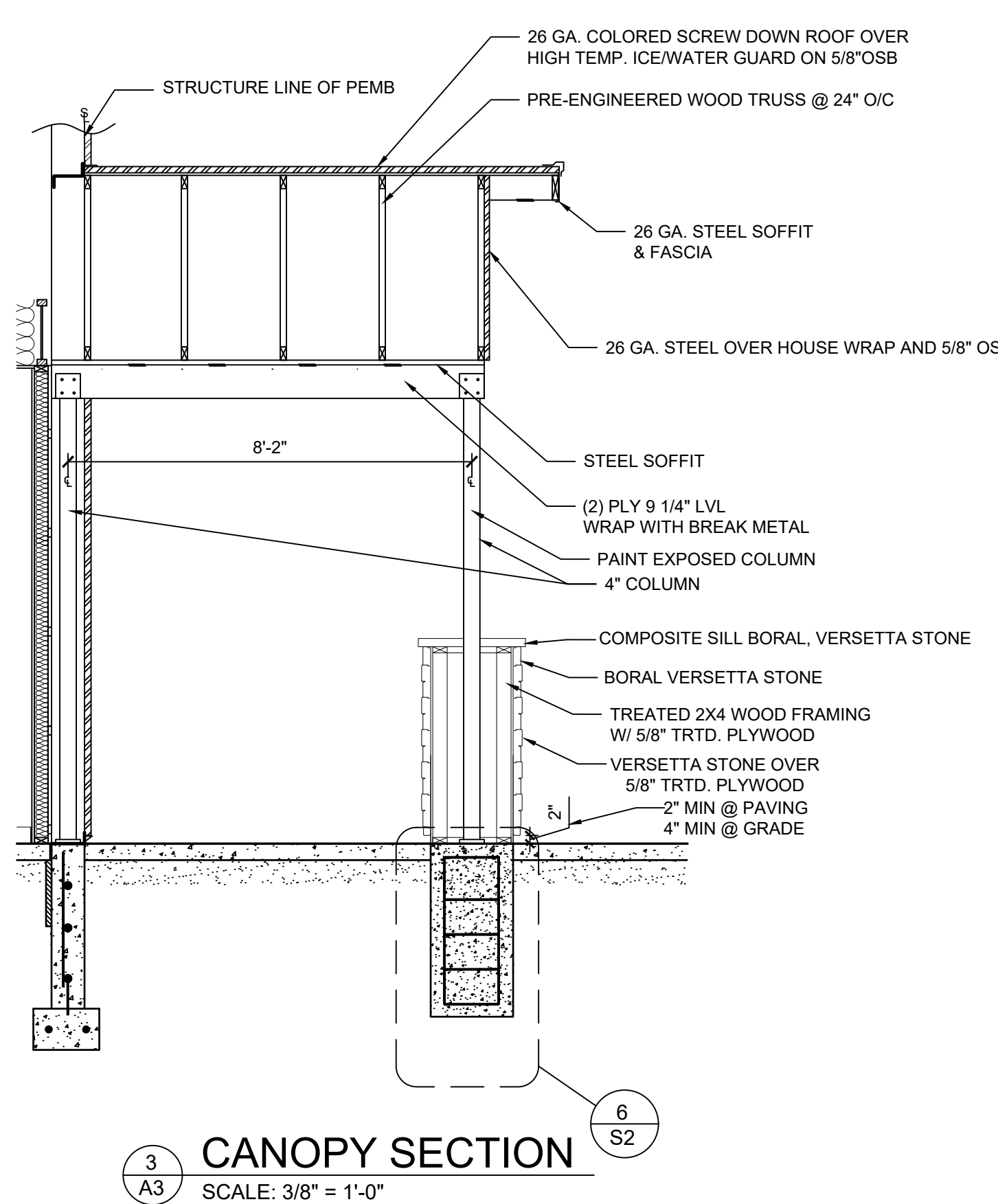
| REVISIONS |       |         |
|-----------|-------|---------|
| TAG:      | DATE: | CHANGE: |
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|           |       |         |
|           |       |         |



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



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



3 CANOPY SECTION  
SCALE: 3/8" = 1'-0"



3 WORKING DAYS |  
BEFORE YOU DIG  
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FOR THE LOCATION OF  
UNDERGROUND FACILITIES

| REVISIONS |       |         |
|-----------|-------|---------|
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| JOB NUMBER:       |
| DRAWING SECTIONS  |
| DRAWN BY: DJC     |
| REVIEWED BY:      |
| FIELD SUPERVISOR: |
| DATE: 10-5-2026   |

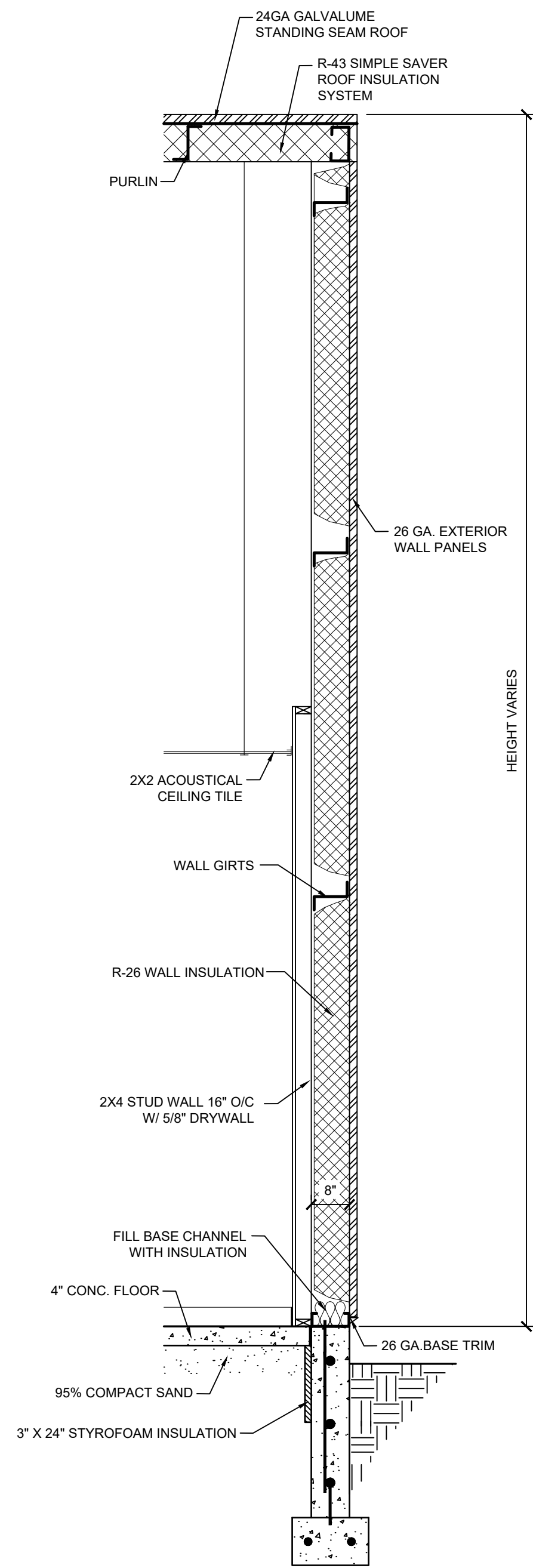
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CONSTRUCTION

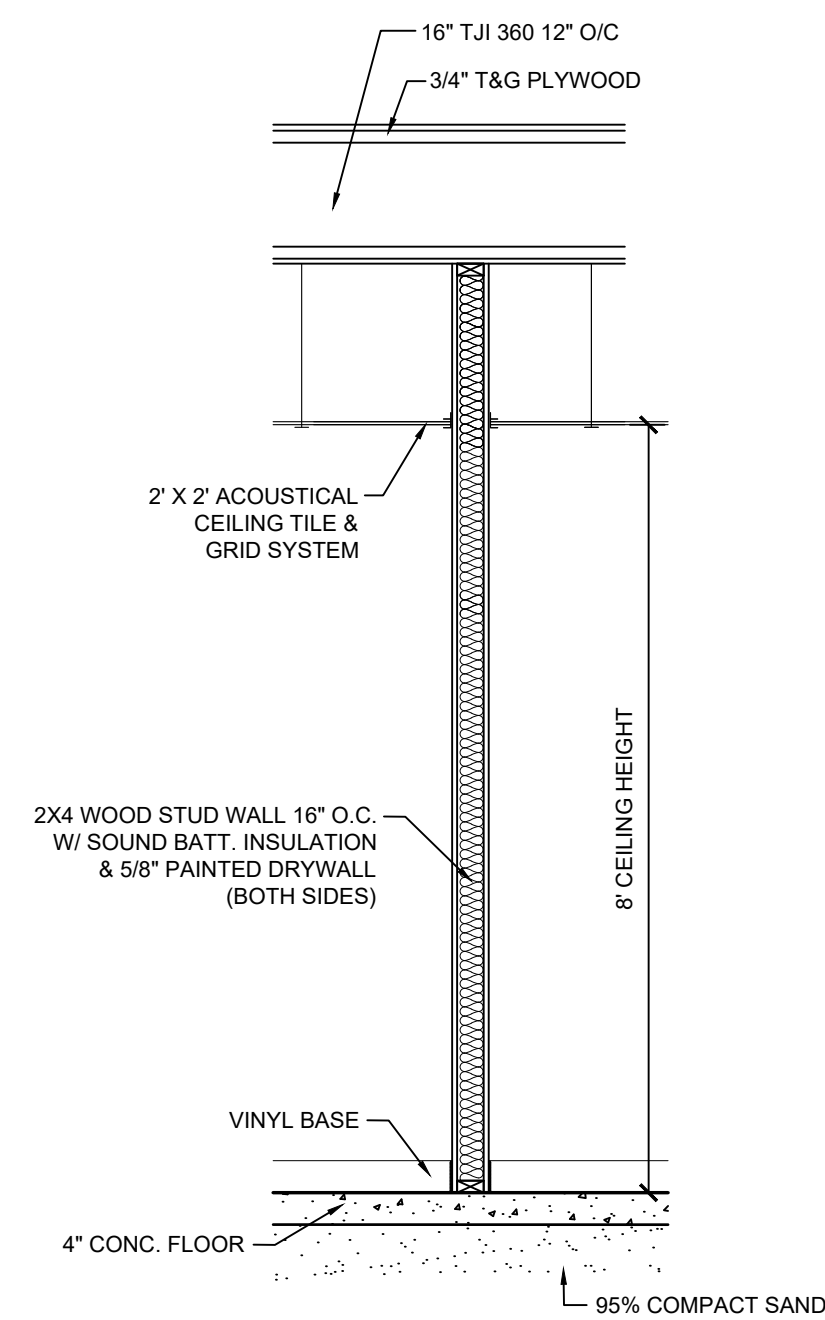
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SCALE:  
VARIES

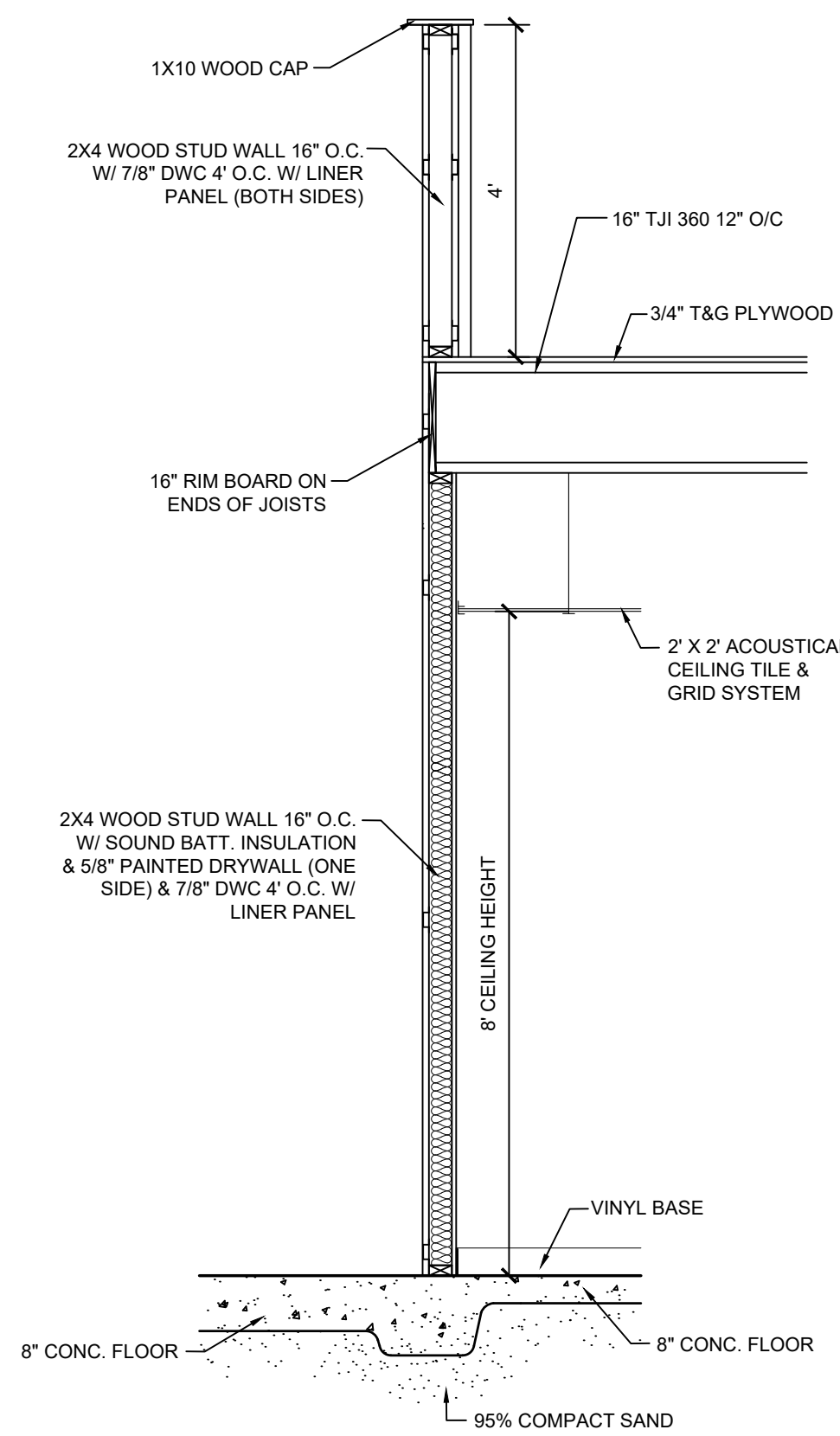
**A3**  
SECTIONS



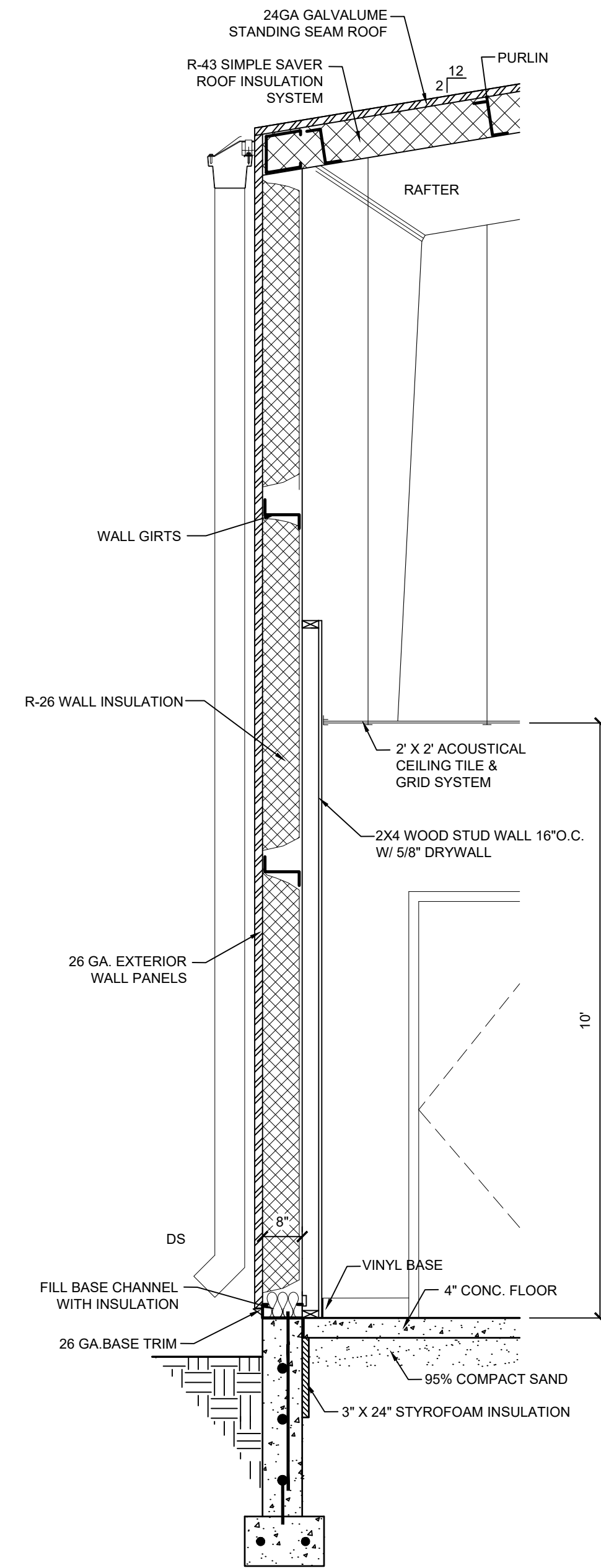
1  
A4  
WALL SECTION  
SCALE: 1/2" = 1'-0"



2  
A4  
INTERIOR WALL SECTION  
SCALE: 1/2" = 1'-0"



3  
A4  
INTERIOR WALL SECTION  
SCALE: 1/2" = 1'-0"



4  
A4  
WALL SECTION  
SCALE: 1/2" = 1'-0"



3 WORKING DAYS |  
BEFORE YOU DIG  
CALL MISS DIG  
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FOR THE LOCATION OF  
UNDERGROUND FACILITIES

| REVISIONS |       |         |
|-----------|-------|---------|
| TAG:      | DATE: | CHANGE: |
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|                        |
|------------------------|
| JOB NUMBER:            |
| DRAWING: WALL SECTIONS |
| DRAWN BY: DJC          |
| REVIEWED BY:           |
| FIELD SUPERVISOR:      |
| DATE: 10-5-2026        |

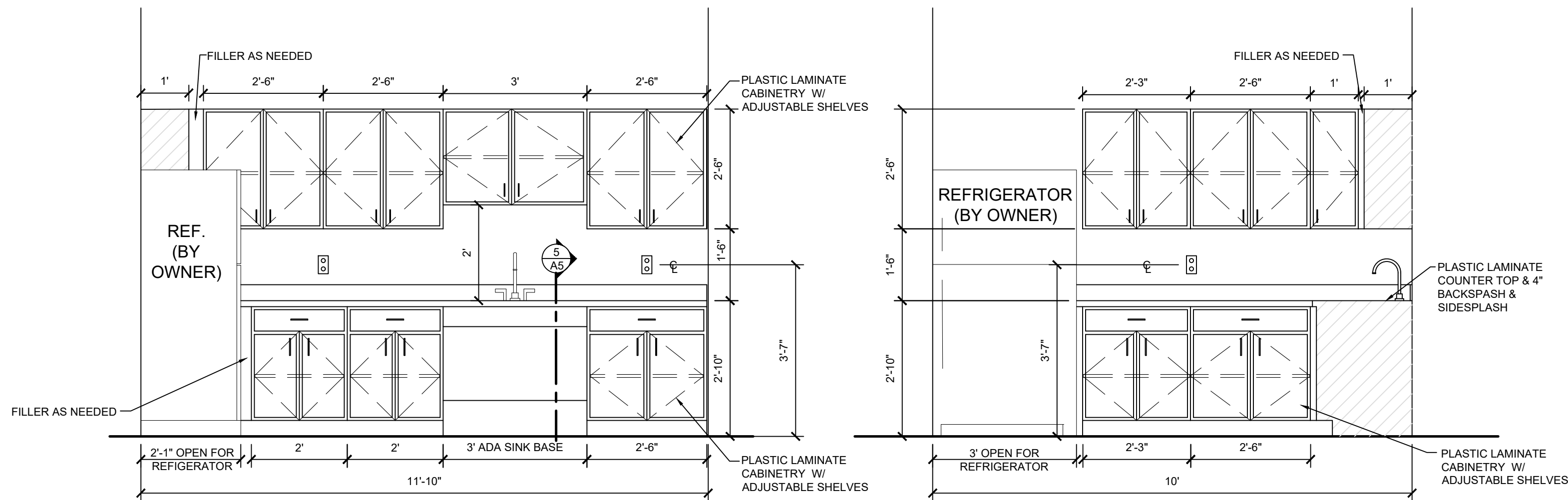
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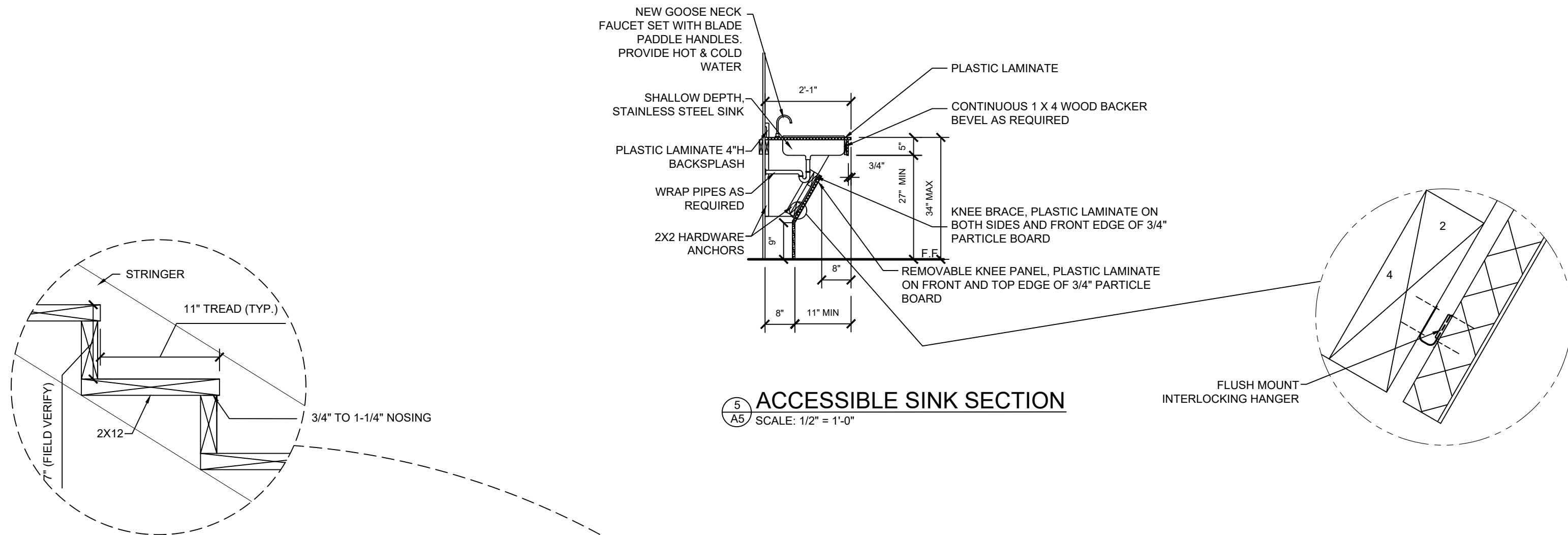
SCALE:  
1/2" = 1'-0"

**A4**  
WALL SECTIONS



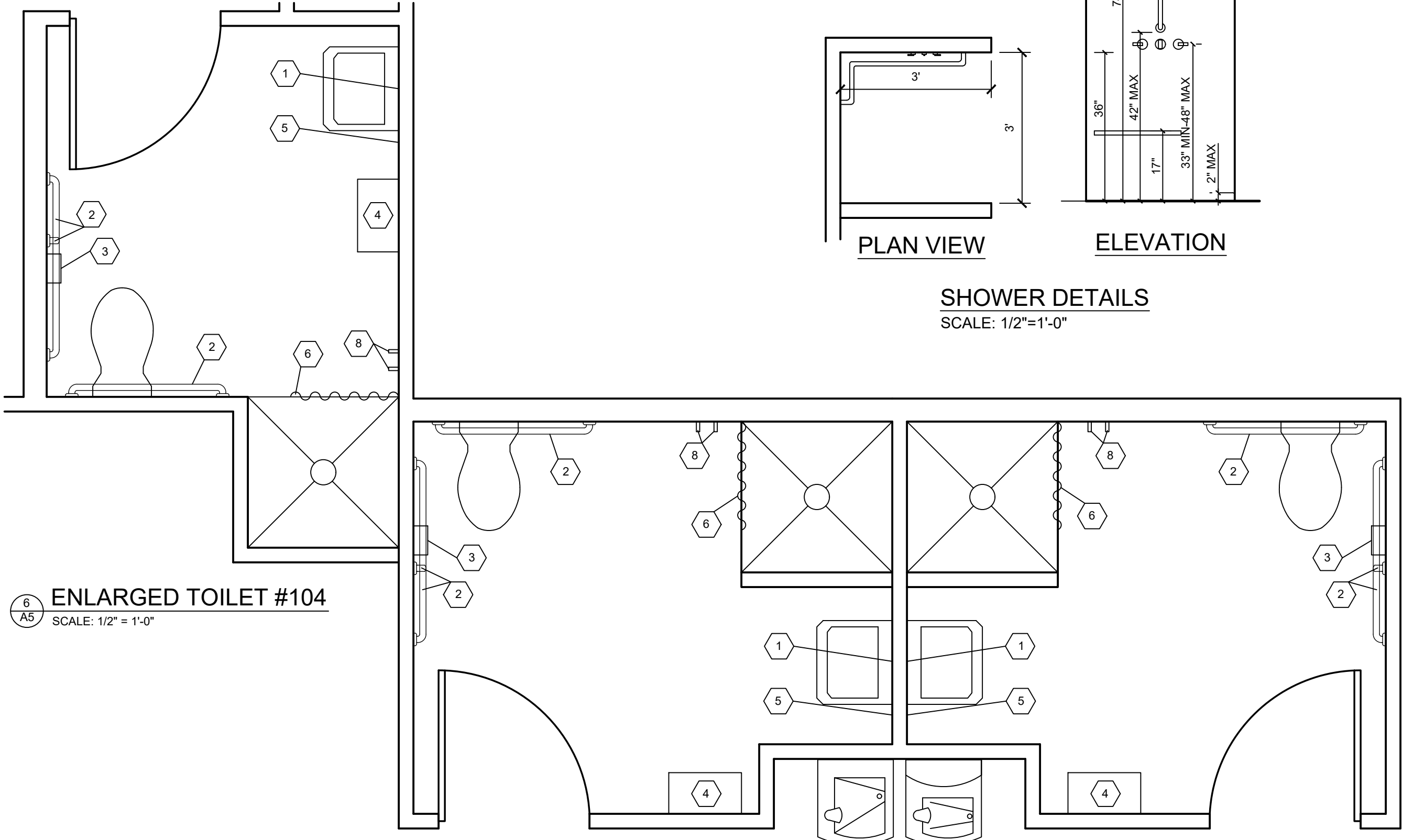
WARMING KITCHEN  
ELEVATION #121  
3  
A5 SCALE: 1/2" = 1'-0"

WARMING KITCHEN  
ELEVATION #121  
4  
A5 SCALE: 1/2" = 1'-0"

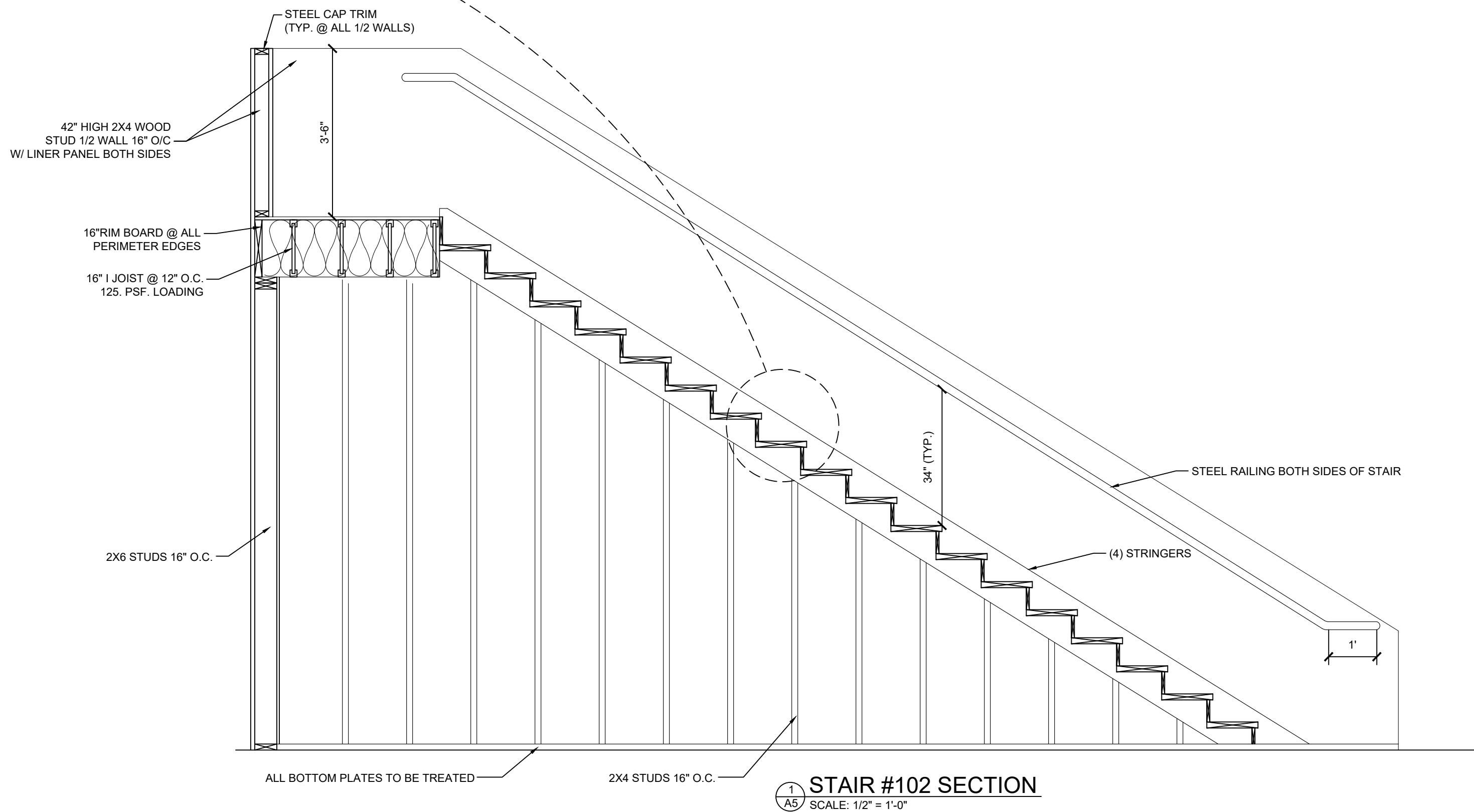


ACCESSIBLE SINK SECTION  
5  
A5 SCALE: 1/2" = 1'-0"

ENLARGED TOILET #104  
6  
A5 SCALE: 1/2" = 1'-0"

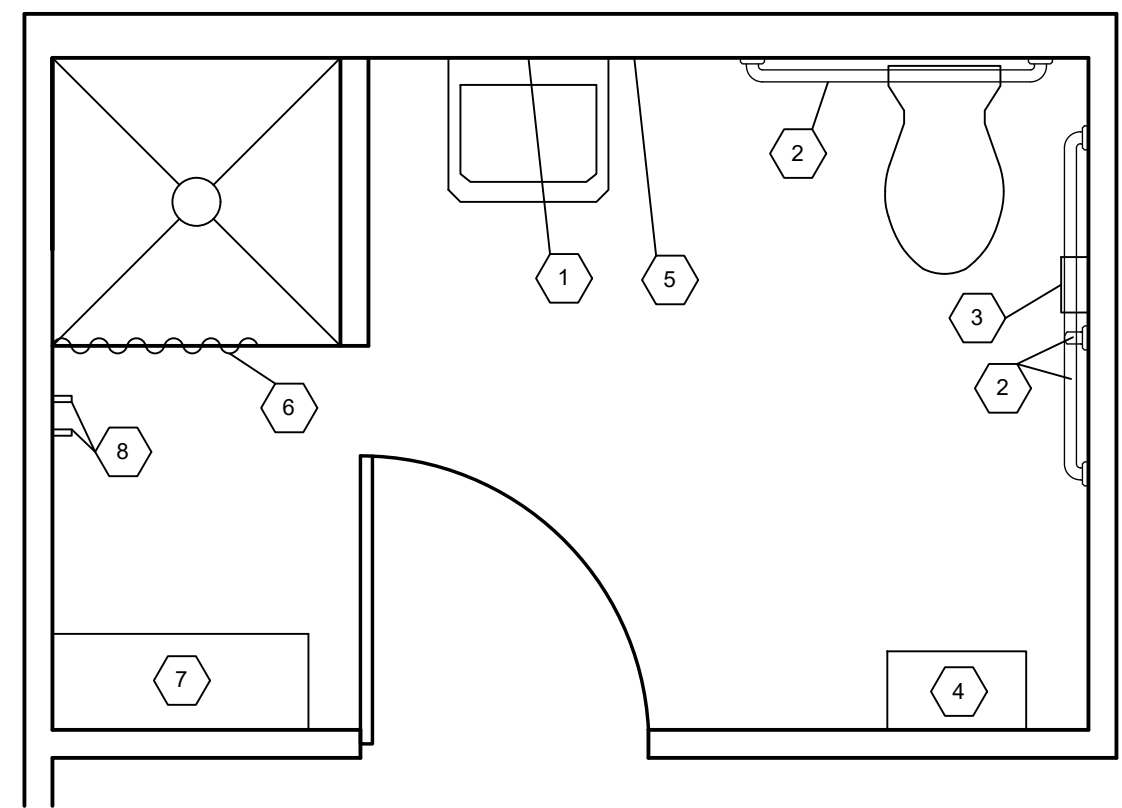


ENLARGED WOMENS TOILET  
#109 & MENS TOILET #110  
7  
A5 SCALE: 1/2" = 1'-0"



STAIR #102 SECTION  
1  
A5 SCALE: 1/2" = 1'-0"

| BATH ACCESSORIES LEGEND                          |                                                |
|--------------------------------------------------|------------------------------------------------|
| 1                                                | MIRROR ABOVE LAVATORY - 24" X 36"              |
| 2                                                | GRAB BAR (ONE AT 36", ONE AT 42" & ONE AT 18") |
| 3                                                | TOILET PAPER DISPENSER                         |
| 4                                                | PAPER TOWEL DISPENSER                          |
| 5                                                | SOAP DISPENSER                                 |
| 6                                                | SHOWER CURTAIN & ROD                           |
| 7                                                | SHOWER BENCH                                   |
| 8                                                | TOWEL HOOKS                                    |
| * ALL FIXTURES TO MEET BARRIER FREE REQUIREMENTS |                                                |



ENLARGED SHOWER ROOM #113  
8  
A5 SCALE: 1/2" = 1'-0"

| ALL TOILET ROOMS SHALL HAVE THE FOLLOWING ACCESSORIES UNLESS OTHERWISE NOTED: |                                                                                                                                                     |
|-------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|
| (1)                                                                           | 24" X 36" MIRROR AT EACH LAV.                                                                                                                       |
| (1)                                                                           | SOAP DISPENSER AT EACH LAV.                                                                                                                         |
| (1)                                                                           | TISSUE DISPENSER AT EACH WATER CLOSET.                                                                                                              |
| (1)                                                                           | ROBE HOOK IN EACH SHOWER ROOM.                                                                                                                      |
| (3)                                                                           | GRAB BARS AT EACH BARRIER FREE WATER CLOSET - (1) 36" LONG (1) 42" LONG & (1) 18" LONG. GRAB BARS TO BE 1 - 1/2" DIA. AND 1 - 1/2" CLEAR FROM WALL. |
| (1)                                                                           | PAPER TOWEL DISPENSER.                                                                                                                              |
| (1)                                                                           | WASTE RECEPTACLE.                                                                                                                                   |



| REVISIONS |       |         |
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|-------------------|
| JOB NUMBER:       |
| DRAWING: DETAILS  |
| DRAWN BY: DJC     |
| REVIEWED BY:      |
| FIELD SUPERVISOR: |
| DATE: 10-5-2026   |

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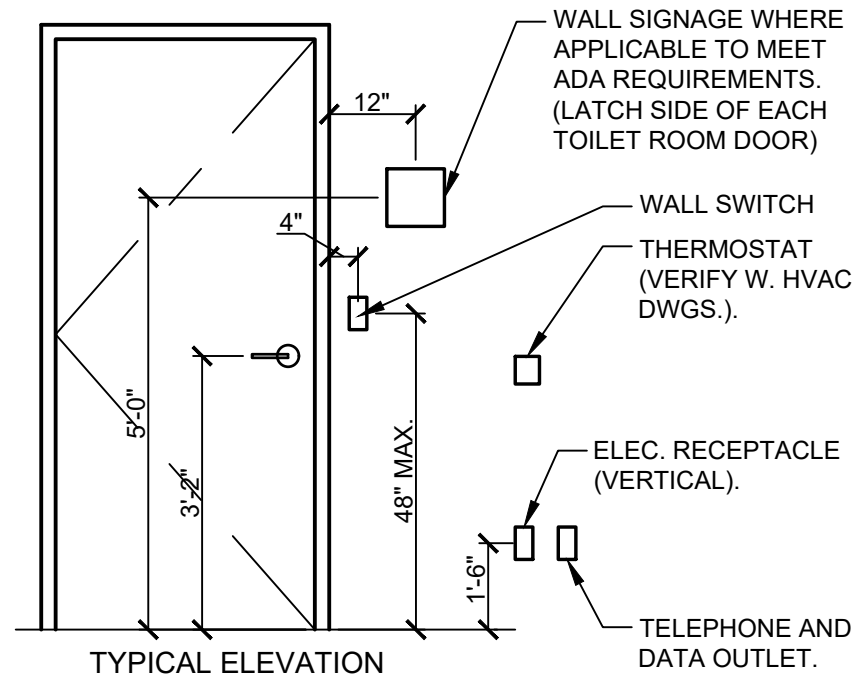
SCALE:  
VARIES

A5  
DETAILS

| ROOM INFORMATION SCHEDULE |                     |                   |                      |                 |       |               |      |                               |                 |               |                               |                 |                 |                               |                 |           |
|---------------------------|---------------------|-------------------|----------------------|-----------------|-------|---------------|------|-------------------------------|-----------------|---------------|-------------------------------|-----------------|-----------------|-------------------------------|-----------------|-----------|
| ROOM NUMBER               | DESIGNATION         | FINISHES          |                      |                 |       |               |      |                               |                 |               |                               | INFO            |                 | REMARKS                       |                 |           |
|                           |                     | FLOOR             | BASE                 | WALLS           |       |               |      | CEILING                       |                 | OPEN TO ABOVE | PAINTED DRYWALL               | CEILING HEIGHT  | RATING (HRS)    |                               |                 |           |
|                           |                     |                   |                      | NORTH           | SOUTH | EAST          | WEST |                               |                 |               |                               |                 |                 |                               |                 |           |
|                           | ROOM NAME           | POLISHED CONCRETE | 1 LAYER 3/4" PLYWOOD | SEALED CONCRETE | STEEL | 4" VINYL BASE | NONE | 5/8" DRYWALL PRIMED & PAINTED | FULL HT. LINERS | FRP PANEL     | 5/8" DRYWALL PRIMED & PAINTED | FULL HT. LINERS | PAINTED MASONRY | 5/8" DRYWALL PRIMED & PAINTED | FULL HT. LINERS | FRP PANEL |
| 100                       | TRUCK BAYS          |                   |                      |                 |       |               |      |                               |                 |               |                               |                 |                 |                               |                 |           |
| 101                       | CLOSET UNDER STAIRS |                   |                      |                 |       |               |      |                               |                 |               |                               |                 |                 |                               |                 |           |
| 102                       | STAIR               |                   |                      |                 |       |               |      |                               |                 |               |                               |                 |                 |                               |                 |           |
| 103                       | EMT OFFICE          |                   |                      |                 |       |               |      |                               |                 |               |                               |                 |                 |                               |                 |           |
| 104                       | UNISEX TOILET       |                   |                      |                 |       |               |      |                               |                 |               |                               |                 |                 |                               |                 |           |
| 105                       | STORAGE             |                   |                      |                 |       |               |      |                               |                 |               |                               |                 |                 |                               |                 |           |
| 106                       | SLEEP AREA          |                   |                      |                 |       |               |      |                               |                 |               |                               |                 |                 |                               |                 |           |
| 107                       | SLEEP AREA          |                   |                      |                 |       |               |      |                               |                 |               |                               |                 |                 |                               |                 |           |
| 108                       | TRAINING AREA       |                   |                      |                 |       |               |      |                               |                 |               |                               |                 |                 |                               |                 |           |
| 109                       | WOMENS TOILET       |                   |                      |                 |       |               |      |                               |                 |               |                               |                 |                 |                               |                 |           |
| 110                       | MENS TOILET         |                   |                      |                 |       |               |      |                               |                 |               |                               |                 |                 |                               |                 |           |
| 111                       | IT/ ELECTRIC        |                   |                      |                 |       |               |      |                               |                 |               |                               |                 |                 |                               |                 |           |
| 112                       | COMPRESSOR ROOM     |                   |                      |                 |       |               |      |                               |                 |               |                               |                 |                 |                               |                 |           |
| 113                       | SHOWER ROOM         |                   |                      |                 |       |               |      |                               |                 |               |                               |                 |                 |                               |                 |           |
| 114                       | LAUNDRY             |                   |                      |                 |       |               |      |                               |                 |               |                               |                 |                 |                               |                 |           |
| 115                       | TURN OUT ROOM       |                   |                      |                 |       |               |      |                               |                 |               |                               |                 |                 |                               |                 |           |
| 116                       | CORRIDOR            |                   |                      |                 |       |               |      |                               |                 |               |                               |                 |                 |                               |                 |           |
| 117                       | CHIEF'S OFFICE      |                   |                      |                 |       |               |      |                               |                 |               |                               |                 |                 |                               |                 |           |
| 118                       | TREASURE'S OFFICE   |                   |                      |                 |       |               |      |                               |                 |               |                               |                 |                 |                               |                 |           |
| 119                       | SLEEP AREA #1       |                   |                      |                 |       |               |      |                               |                 |               |                               |                 |                 |                               |                 |           |
| 120                       | SLEEP AREA #2       |                   |                      |                 |       |               |      |                               |                 |               |                               |                 |                 |                               |                 |           |
| 121                       | WARMING KITCHEN     |                   |                      |                 |       |               |      |                               |                 |               |                               |                 |                 |                               |                 |           |
| 200                       | MEZZANINE           |                   |                      |                 |       |               |      |                               |                 |               |                               |                 |                 |                               |                 |           |

| DOOR AND FRAME SCHEDULE |                   |        |        |      |       |         |      |       |                |                |         |  |  |
|-------------------------|-------------------|--------|--------|------|-------|---------|------|-------|----------------|----------------|---------|--|--|
| DOOR NO.                | ROOM NAME         | WIDTH  | HEIGHT | TYP. | MAT.  | SWING   | TYP. | MAT.  | RATING (HOURS) | HARDWARE SET # | REMARKS |  |  |
| 100A                    | TRUCK BAYS        | 3'-0"  | 7'-0"  | 3    | HM    | LH      | A    | HM    | ---            | 5              |         |  |  |
| 100B                    | TRUCK BAYS        | 6'-0"  | 7'-0"  | 5    | HM    | RH/LH   | B    | HM    | ---            | 4              |         |  |  |
| 100C                    | TRUCK BAYS        | 3'-0"  | 7'-0"  | 3    | HM    | LH      | A    | HM    | ---            | 5              |         |  |  |
| 100D                    | TRUCK BAYS        | 3'-0"  | 7'-0"  | 4    | HM    | LHR     | A    | HM    | ---            | 1              |         |  |  |
| 100E                    | TRUCK BAYS        | 12'-0" | 14'-0" | 8    | STEEL | ---     | ---  | STEEL | ---            | ---            |         |  |  |
| 100F                    | TRUCK BAYS        | 12'-0" | 14'-0" | 8    | STEEL | ---     | ---  | STEEL | ---            | ---            |         |  |  |
| 100G                    | TRUCK BAYS        | 12'-0" | 14'-0" | 8    | STEEL | ---     | ---  | STEEL | ---            | ---            |         |  |  |
| 100H                    | TRUCK BAYS        | 12'-0" | 14'-0" | 8    | STEEL | ---     | ---  | STEEL | ---            | ---            |         |  |  |
| 100J                    | TRUCK BAYS        | 3'-0"  | 7'-0"  | 3    | HM    | RHR     | A    | HM    | ---            | 1              |         |  |  |
| 100K                    | TRUCK BAYS        | 12'-0" | 14'-0" | 8    | STEEL | ---     | ---  | STEEL | ---            | ---            |         |  |  |
| 100L                    | TRUCK BAYS        | 12'-0" | 14'-0" | 8    | STEEL | ---     | ---  | STEEL | ---            | ---            |         |  |  |
| 100M                    | TRUCK BAYS        | 12'-0" | 14'-0" | 8    | STEEL | ---     | ---  | STEEL | ---            | ---            |         |  |  |
| 100N                    | TRUCK BAYS        | 3'-0"  | 7'-0"  | 4    | HM    | RHR     | A    | HM    | ---            | 1              |         |  |  |
| 101                     | CLOSET            | 3'-0"  | 7'-0"  | 3    | HM    | LHR     | A    | HM    | ---            | 2              |         |  |  |
| 103A                    | EMT OFFICE        | 3'-0"  | 7'-0"  | 7    | WOOD  | RH      | A    | HM    | ---            | 2              |         |  |  |
| 103B                    | EMT OFFICE        | 3'-0"  | 7'-0"  | 2    | WOOD  | LH      | A    | HM    | ---            | 2              |         |  |  |
| 104                     | UNISEX TOILET     | 3'-0"  | 7'-0"  | 2    | WOOD  | RH      | A    | HM    | ---            | 3              |         |  |  |
| 105A                    | LOUNGE            | 3'-0"  | 7'-0"  | 4    | WOOD  | LH      | A    | HM    | ---            | 5              |         |  |  |
| 105B                    | LOUNGE            | 4'-0"  | 7'-0"  | 6    | WOOD  | BI-FOLD | C    | HM    | ---            | 6              |         |  |  |
| 106                     | SLEEP AREA        | 3'-0"  | 7'-0"  | 2    | WOOD  | RH      | A    | HM    | ---            | 2              |         |  |  |
| 107                     | SLEEP AREA        | 3'-0"  | 7'-0"  | 2    | WOOD  | LH      | A    | HM    | ---            | 2              |         |  |  |
| 108A                    | TRAINING ROOM     | 3'-0"  | 7'-0"  | 7    | WOOD  | LH      | A    | HM    | ---            | 2              |         |  |  |
| 108B                    | TRAINING ROOM     | 6'-0"  | 7'-0"  | 1    | WOOD  | LH/RH   | B    | HM    | ---            | 7              |         |  |  |
| 108C                    | TRAINING ROOM     | 6'-0"  | 7'-0"  | 1    | WOOD  | LH/RH   | B    | HM    | ---            | 7              |         |  |  |
| 108D                    | TRAINING ROOM     | 3'-0"  | 7'-0"  | 3    | HM    | LHR     | A    | HM    | ---            | 1              |         |  |  |
| 109                     | WOMENS TOILET     | 3'-0"  | 7'-0"  | 2    | WOOD  | LH      | A    | HM    | ---            | 3              |         |  |  |
| 110                     | MENS TOILET       | 3'-0"  | 7'-0"  | 2    | WOOD  | RH      | A    | HM    | ---            | 3              |         |  |  |
| 111                     | IT/ ELECTRIC      | 3'-0"  | 7'-0"  | 7    | WOOD  | RH      | A    | HM    | ---            | 2              |         |  |  |
| 113                     | SHOWER ROOM       | 3'-0"  | 7'-0"  | 3    | HM    | LH      | A    | HM    | ---            | 3              |         |  |  |
| 114                     | LAUNDRY           | 3'-0"  | 7'-0"  | 3    | HM    | LH      | A    | HM    | ---            | 2              |         |  |  |
| 115                     | TURN OUT ROOM     | 3'-0"  | 7'-0"  | 3    | HM    | RH      | A    | HM    | ---            | 2              |         |  |  |
| 116                     | CORRIDOR          | 3'-0"  | 7'-0"  | 4    | HM    | RHR     | A    | HM    | ---            | 1              |         |  |  |
| 117                     | CHIEF'S OFFICE    | 3'-0"  | 7'-0"  | 7    | WOOD  | LH      | A    | HM    | ---            | 2              |         |  |  |
| 118                     | TREASURE'S OFFICE | 3'-0"  | 7'-0"  | 7    | WOOD  | LH      | A    | HM    | ---            | 2              |         |  |  |
| 119                     | SLEEP AREA #1     | 3'-0"  | 7'-0"  | 2    | WOOD  | LH      | A    | HM    | ---            | 2              |         |  |  |
| 120                     | SLEEP AREA #2     | 3'-0"  | 7'-0"  | 2    | WOOD  | LH      | A    | HM    | ---            | 2              |         |  |  |

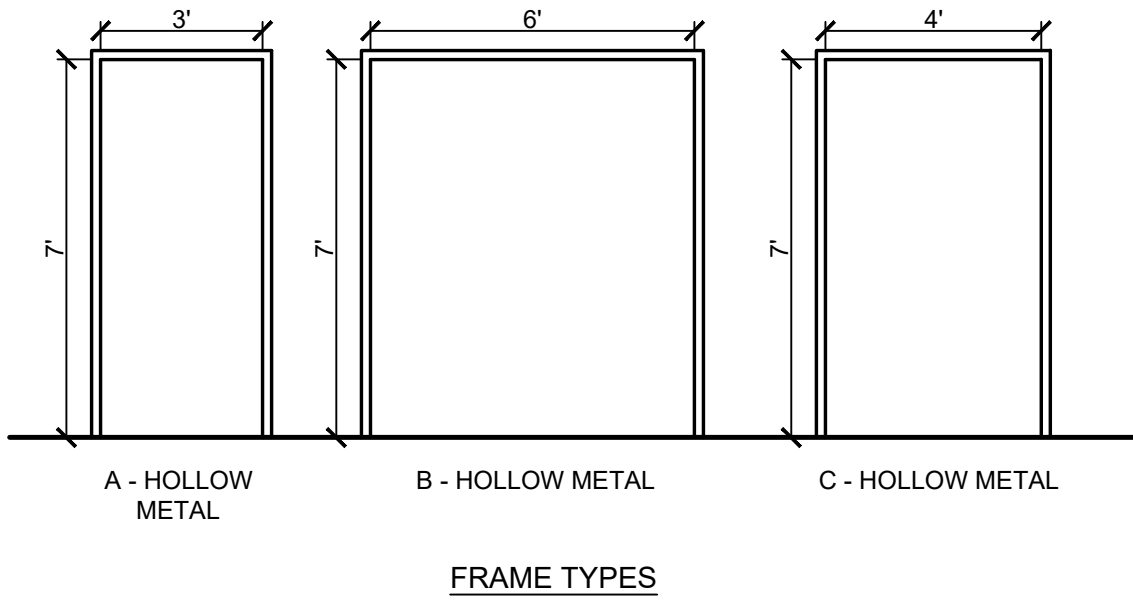
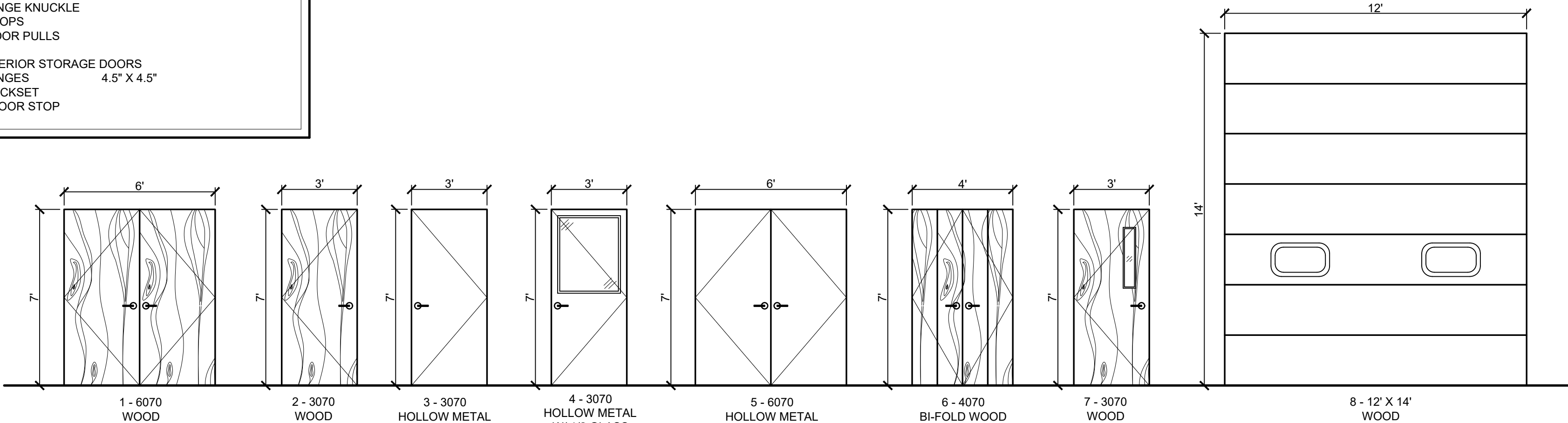
| HARDWARE SCHEDULE                        |                            |
|------------------------------------------|----------------------------|
| SET #1: ENTRY DOORS                      |                            |
| 3 - HINGES                               | 4.5" X 4.5"                |
| 1 - LOCKSET                              | ENTRANCE                   |
| 1 - CLOSER                               | 8.5# FORCE MIDGRADE        |
| 1 - WEATHER STRIP                        |                            |
| 1 - THRESHOLD                            |                            |
| 1 - DOOR SWEEP                           |                            |
| SET#2: INTERIOR DOORS                    |                            |
| 3 - HINGES                               | 4.5" X 4.5"                |
| 1 - LOCKSET                              |                            |
| 1 - FLOOR STOP                           |                            |
| SET#3: SINGLE STALL RESTROOM/ SLEEP AREA |                            |
| 3 - HINGES                               | 4.5" X 4.5"                |
| 1 - LOCKSET                              | ENTRANCE                   |
| 1 - CLOSER                               | 5.5# FORCE MIDGRADE        |
| SET #4: SHOP DOOR                        |                            |
| 6 - HINGES                               | 4.5" X 4.5"                |
| 1 - EXIT DEVICE                          |                            |
| 1 - CLOSER                               | 8.5# FORCE MIDGRADE        |
| 1 - THRESHOLD                            | 60"                        |
| 1 - WEATHER STRIP                        | 1" X 60"                   |
| 1 - DOOR SWEEP                           | 60"                        |
| SET #5: SHOP DOOR                        |                            |
| 3 - HINGES                               | 4.5" X 4.5"                |
| 1 - LOCKSET                              | ENTRANCE                   |
| 1 - CLOSER                               | ADJUSTABLE# FORCE MIDGRADE |
| 1 - WEATHER STRIP                        |                            |
| 1 - THRESHOLD                            |                            |
| 1 - DOOR SWEEP                           |                            |
| SET #6: INTERIOR BI-FOLD DOORS           |                            |
| 4 - PIVOT PLATE                          |                            |
| 6 - HINGE KNUCKLE                        |                            |
| 2 - STOPS                                |                            |
| 2 - DOOR PULLS                           |                            |
| SET #7: INTERIOR STORAGE DOORS           |                            |
| 6 - HINGES                               | 4.5" X 4.5"                |
| 2 - LOCKSET                              |                            |
| 2 - FLOOR STOP                           |                            |



| GENERAL NOTES -- DOOR AND FRAME SCHEDULE |                                                                                                                                                                                              |
|------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1.                                       | OPENING NUMBER IS THE SAME AS THE NUMBER OF THE ROOM WHICH THE OPENING SERVES. SUB-LETTERS (A,B,C, ETC..) ARE ADDED TO THE NUMBER IN CASES WHERE MORE THAN ONE OPENING SERVES THE SAME ROOM. |
| 2.                                       | DOOR TYPES ARE NUMERICALLY REFERENCED TO THEIR ILLUSTRATIONS UNDER "DOOR TYPES"                                                                                                              |
| 3.                                       | FRAME TYPES ARE ALPHABETICALLY REFERENCED TO THEIR ILLUSTRATIONS UNDER "FRAME TYPES"                                                                                                         |
| 4.                                       | ALL GLASS IN EXTERIOR DOORS AND FRAMES SHALL BE SEALED 1" INSULATED TEMPERED GLASS UNITS UNLESS NOTED OTHERWISE.                                                                             |
| 5.                                       | SAFETY GLASS MAY BE TEMPERED OR LAMINATED AT CONTRACTOR'S OPTION.                                                                                                                            |
| 6.                                       | FIRE RESISTANCE RATED GLASS SHALL BE WIRED GLASS UNLESS NOTED OTHERWISE.                                                                                                                     |
| 7.                                       | ALL GLASS SHALL BE CLEAR (NO TINT) UNLESS NOTED OTHERWISE.                                                                                                                                   |
| 8.                                       | ALL DOORS SHALL BE 1 3/4" THICK UNLESS NOTED OTHERWISE.                                                                                                                                      |
| 9.                                       | ALL HOLLOW METAL DOOR FRAMES TO BE WELDED FRAMES.                                                                                                                                            |

| GENERAL NOTES -- ROOM FINISH SCHEDULE |                                                                                        |
|---------------------------------------|----------------------------------------------------------------------------------------|
| 1.                                    | PAINTER TO INCLUDE CAULKING DISSIMILAR SURFACE THAT GETS PAINTED                       |
| 2.                                    | DRYWALL WILL RECEIVE (1) COAT PRIMER AND (2) COATS FINISH - SHEEN AS SELECTED BY OWNER |
| 3.                                    | MASONRY WALLS TO RECEIVE (1) COAT BLOCK FILLER AND (2) COATS FINISH                    |
| 4.                                    | HM DOORS & HM FRAMES TO RECEIVE (2) COATS OF PAINT                                     |
| 5.                                    | BUMP POSTS TO RECEIVE (2) COATS OF SAFETY YELLOW                                       |

| GENERAL NOTES |                                                                                                                                                                                                                         |
|---------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1.            | FIELD VERIFY ALL CONDITIONS AFFECTING THE WORK                                                                                                                                                                          |
| 2.            | REFER TO MECH. AND ELEC. DRAWINGS FOR ARCHITECTURAL ITEMS THAT MUST BE PROVIDED FOR INTEGRATION OF MECH. AND ELEC. WORK. THESE ITEMS MAY INCLUDE SUCH ITEMS AS HOUSEKEEPING PADS, ACCESS PANELS MOUNTING DEVICES, ETC.. |



| WINDOW SCHEDULE |       |       |           |         |           |             |                                       |      |               |
|-----------------|-------|-------|-----------|---------|-----------|-------------|---------------------------------------|------|---------------|
| KEY             | SIZE  |       | R.O. SIZE |         | TYPE      | FRAME COLOR | GLAZING                               | QTY. | NOTES         |
| A               | 4'-0" | 4'-0" | 4'-1/2"   | 4'-1/2" | COMPOSITE |             | FIXED - LOW-E TINTED INSULATED GLASS  | 6    |               |
| B               | 4'-0" | 4'-0" | 4'-1/2"   | 4'-1/2" | COMPOSITE |             | SLIDER - LOW-E TINTED INSULATED GLASS | 4    | EGRESS WINDOW |



3 WORKING DAYS |  
BEFORE YOU DIG  
CALL MISS DIG  
1-800-482-7171  
FOR THE LOCATION OF  
UNDERGROUND FACILITIES

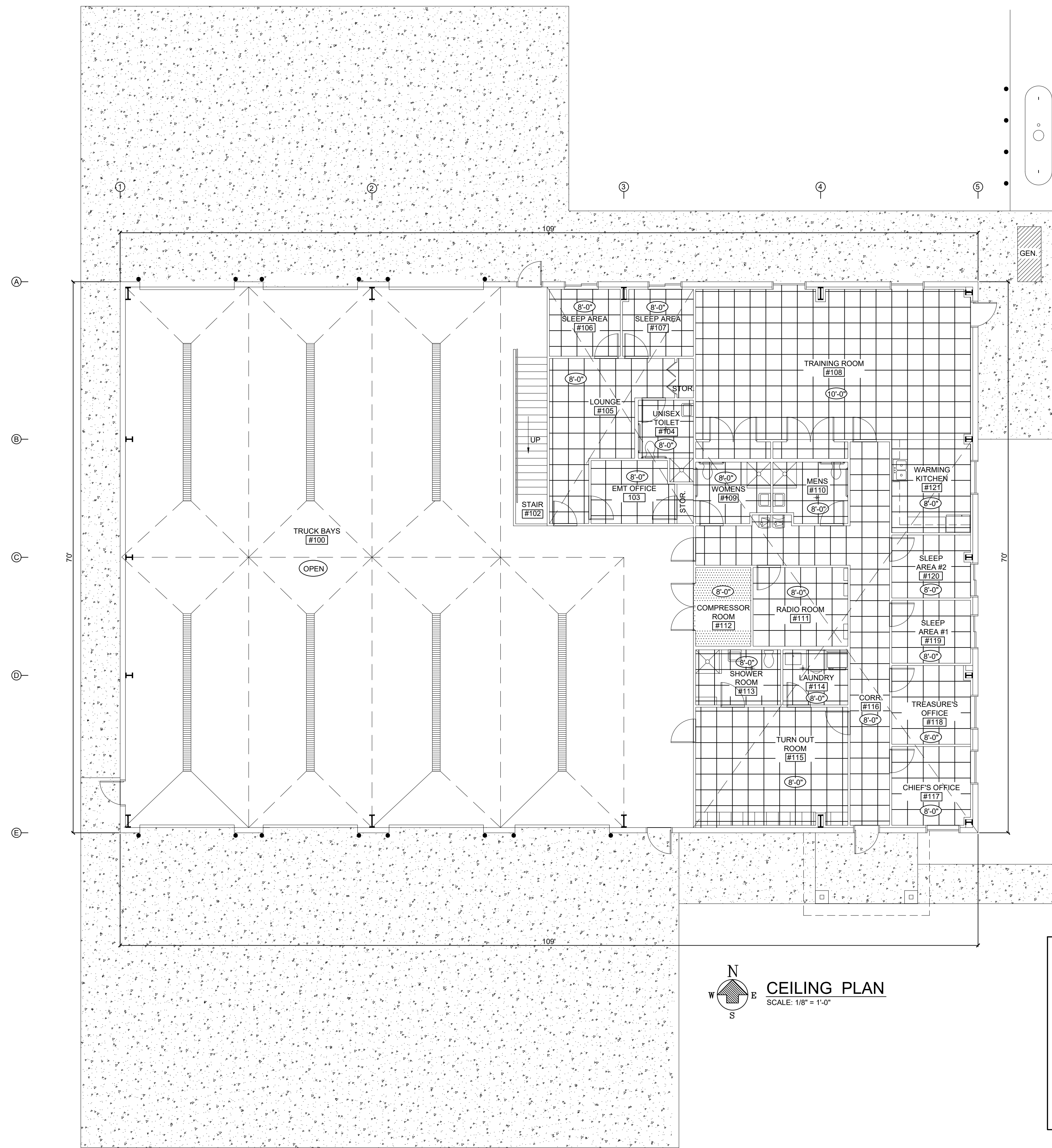
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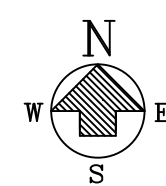
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| DRAWN BY: DKG     |  |
| REVIEWED BY:      |  |
| FIELD SUPERVISOR: |  |
| DATE: 10-5-2026   |  |

GARFIELD TOWNSHIP  
FIRE DEPARTMENT  
1242 W. ERICKSON RD.  
LINWOOD, MICHIGAN 48634

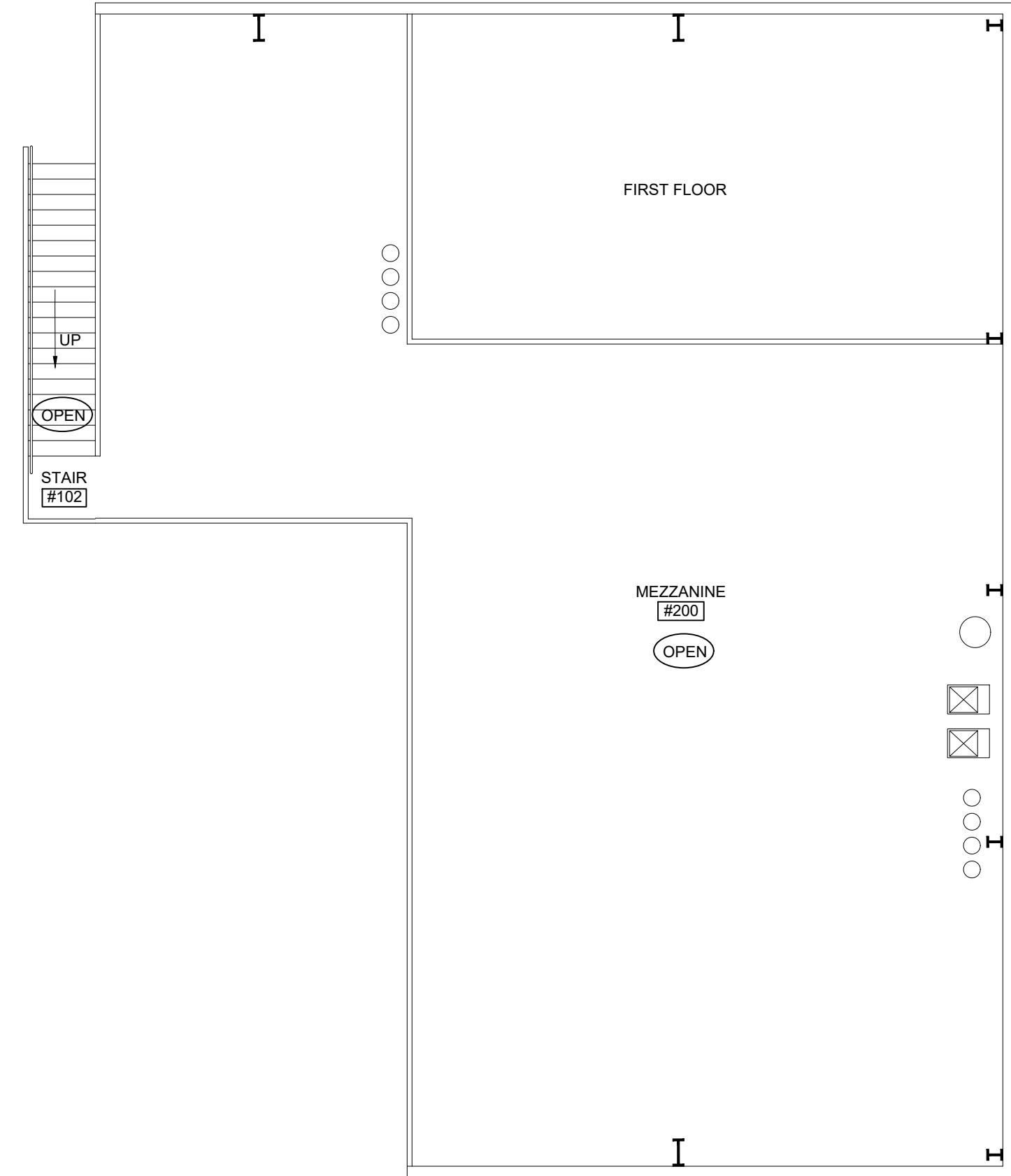
JBS Contracting Inc.  
1680 COVER PARKWAY  
MT. PLEASANT, MI 48858  
(989) 775-0770  
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CONSTRUCTION

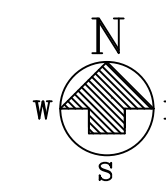
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A6  
SCHEDULE

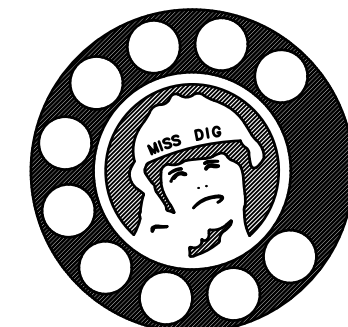


 **CEILING PLAN**  
SCALE: 1/8" = 1'-0"

| CEILING FINISH LEGEND                                                                 |                                 |
|---------------------------------------------------------------------------------------|---------------------------------|
|  | = OPEN TO ABOVE                 |
|  | = FINISH CEILING HEIGHT         |
|  | = 2'X2' ACOUSTICAL CEILING TILE |
|  | = DRYWALL CEILING               |



 **MEZZANINE CEILING PLAN**  
SCALE: 1/8" = 1'-0"



3 WORKING DAYS |  
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UNDERGROUND FACILITIES

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|-----------|-------|---------|
| TAG:      | DATE: | CHANGE: |
|           |       |         |
|           |       |         |
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|                       |
|-----------------------|
| JOB NUMBER:           |
| DRAWING: CEILING PLAN |
| DRAWN BY: DJC         |
| REVIEWED BY:          |
| FIELD SUPERVISOR:     |
| DATE: 9-10-2026       |

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(989) 773-0770

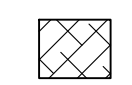
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1/8" = 1'-0"

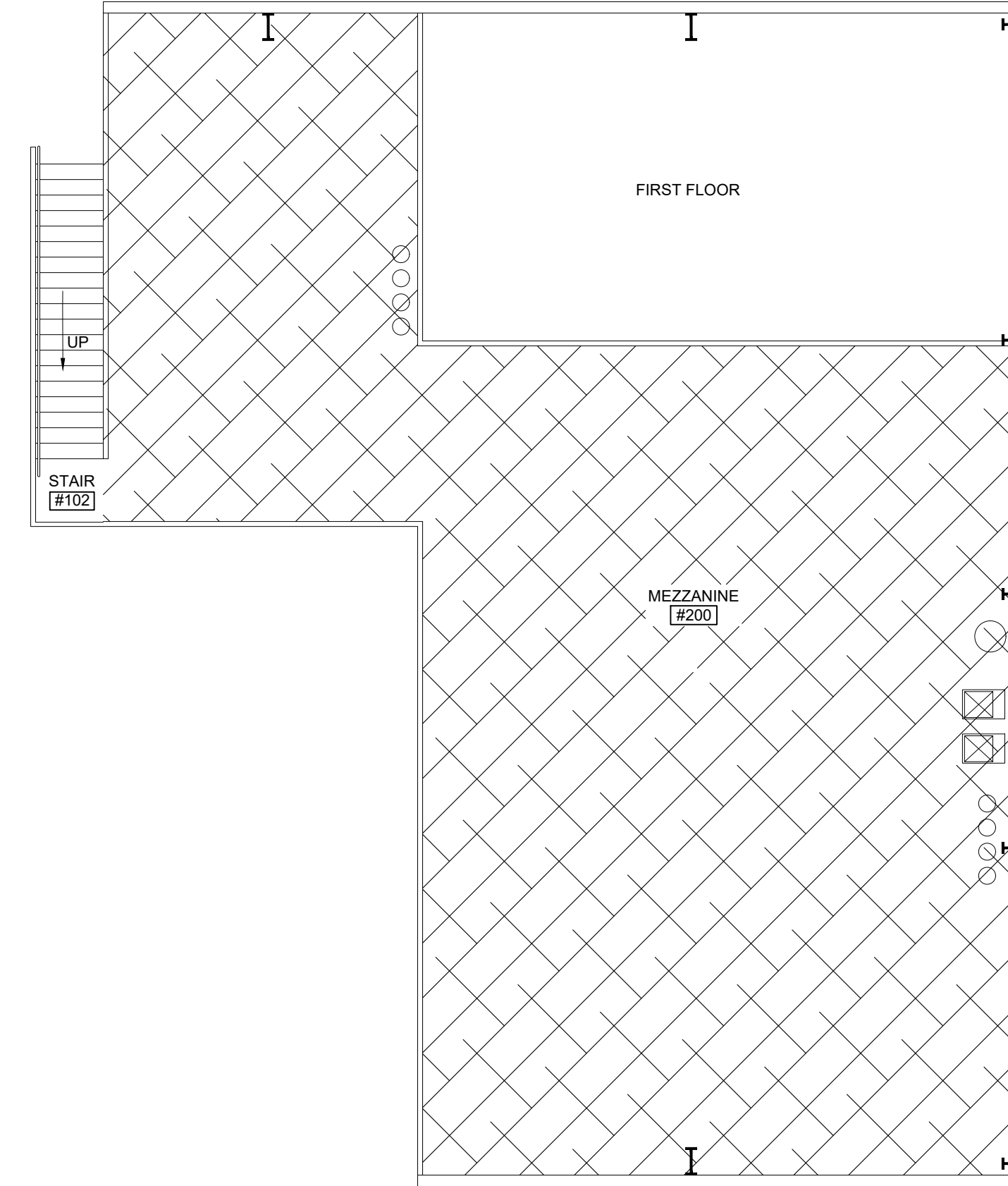
**A7**  
CEILING PLAN



**FLOOR FINISH PLAN**  
SCALE: 1/8" = 1'-0"

**FLOOR FINISH LEGEND:**

-  = POLISHED CONCRETE
-  = NONE - EXPOSED DECK
-  = SEALED CONCRETE



**MEZZANINE FLOOR FINISH PLAN**  
SCALE: 1/8" = 1'-0"



3 WORKING DAYS |  
BEFORE YOU DIG  
CALL MISS DIG  
1-800-482-7171  
FOR THE LOCATION OF  
UNDERGROUND FACILITIES

| REVISIONS |      |        |
|-----------|------|--------|
| TAG       | DATE | CHANGE |
|           |      |        |
|           |      |        |
|           |      |        |

|                            |
|----------------------------|
| JOB NUMBER:                |
| DRAWING: FLOOR FINISH PLAN |
| DRAWN BY: DJC              |
| REVIEWED BY:               |
| FIELD SUPERVISOR:          |
| DATE: 9-10-2026            |

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

**A8**  
FLOOR FINISH PLAN

MECHANICAL SPECIFICATIONS

Instructions to Bidders – Mechanical Work

All mechanical work shall be performed in strict accordance with the latest editions of the International Mechanical Code (IMC), International Plumbing Code (IPC), International Fuel Gas Code (IFGC), International Energy Conservation Code (IECC), ASHRAE 90.1, NFPA 54, NFPA 13 (where applicable), and all applicable state and local amendments. The Contractor shall obtain, pay for, and coordinate all required permits, licenses, inspections, and testing by authorities having jurisdiction, including but not limited to plan review fees, rough-in inspections, final inspections, pressure testing, and certificate of occupancy requirements.

The Contractor shall submit complete shop drawings, product data, coordination drawings, and schedules for review prior to fabrication or installation. All submittals shall bear the Contractor's stamp certifying review and compliance with the Contract Documents. The Contractor shall comply with the latest standards of SMACNA, ASHRAE, ASPE, NFPA, ASTM, ANSI, and other recognized industry organizations referenced in the specifications.

The Contractor shall guarantee all materials, equipment, and workmanship to be free from defects for a period of one (1) year from the date of Substantial Completion unless longer periods are specified for individual items. The Contractor shall maintain accurate daily records of work progress and always provide marked-up as-built drawings at the job site. Upon completion, the Contractor shall furnish three (3) complete sets of record drawings (as-builts) in both hard copy and electronic PDF format showing exact locations, sizes, elevations, and routing of all concealed piping, ductwork, equipment, and controls.

The Contractor shall visit the site and become fully acquainted with existing local conditions, access restrictions, staging areas, and utility locations prior to submitting a bid; no subsequent claims for lack of knowledge of conditions shall be allowed.

The Contractor shall provide three (3) bound sets and one electronic PDF copy of operation and maintenance manuals containing approved shop drawings, parts lists, operating instructions, maintenance schedules, wiring diagrams, control sequences, and warranty information. The Contractor shall furnish factory-authorized start-up service for all major pieces of equipment and shall provide certified start-up reports and a minimum of eight (8) hours of owner instruction by qualified personnel. Cutting, coring, and patching of existing construction shall be performed by the Mechanical Contractor or by qualified subcontractors under this division; all work shall match existing materials and finishes. The Contractor shall provide secure, weather-protected on-site storage facilities for materials and equipment and shall protect all work and materials from damage, theft, weather, and construction activities until Substantial Completion. The Contractor shall be solely responsible for replacement or repair of any damaged items at no additional cost to the Owner.

Refrigeration Piping (ACR Copper)

All refrigerant piping shall be hard-drawn ACR copper tubing conforming to ASTM B280, clean and sealed at both ends until installation. Fittings shall be wrought-copper long-radius refrigeration-type conforming to ASME B16.22 with extended-leg ends suitable for silver-brazing. Joints shall be made using minimum 15% silver-phosphorus brazing alloy (BCuP-5 or Sil-Fos) with no flux on copper-to-copper joints; fluxed 45% silver alloy (Bag-5 or equivalent) shall be used only for copper-to-brass or copper-to-steel transitions. Brazing shall be performed under continuous dry-nitrogen purge to prevent internal oxidation and scale formation. Piping shall be pressure-tested with dry nitrogen to 450 psig (or 1.5 times system design pressure, whichever is greater) for a minimum of 24 hours with no allowable loss, witnessed and documented by the Owner's representative. After successful pressure test, the system shall be triple-evacuated to 500 microns or lower and held for 2 hours without rise, then charged with refrigerant and oil in strict accordance with manufacturer recommendations.

Suction lines 1-5/8" and smaller shall be insulated with ¾-inch-thick closed-cell elastomeric insulation (Armaflex or equal) with a minimum 25/50 flame/smoke rating and vapor-sealed joints; suction lines 2-1/8" and larger shall have 1-inch-thick insulation. Liquid lines, hot-gas lines, and hot-gas bypass lines shall be insulated with ½-inch-thick elastomeric insulation. All insulation shall be covered with PVC jacketing or aluminum jacket in exposed locations. Piping shall be supported with cushioned clamps or clevis hangers at maximum 6-foot intervals. All work shall comply with the latest editions of ASHRAE Standard 15, ASME B31.5 Refrigerant Piping Code, IAR standards where applicable, and EPA Section 608 refrigerant handling regulations.

Sheet Metal Ductwork – Rectangular and Round

All sheet metal ductwork shall be fabricated and installed in strict accordance with the latest edition of SMACNA HVAC Duct Construction Standards – Metal and Flexible (3rd Edition) and ASHRAE/IES Standard 90.1 energy requirements. Rectangular ducts shall be constructed of galvanized steel conforming to ASTM A653 with G90 coating, lock-forming quality, using Pittsburgh seams for longitudinal joints and approved transverse joint systems (SMACNA T-21 through T-25) corresponding to the static pressure class indicated. Minimum gauge and reinforcement shall comply with SMACNA tables for the specified pressure class (±2 in. wg low-pressure, ±4/-2 in. wg medium-pressure, or +10 in. wg high-pressure as scheduled) with no deviation permitted without written approval.

Round ducts and fittings shall be spiral lockseam or longitudinal-seam galvanized steel conforming to ASTM A653 G90 coating, with minimum gauges per SMACNA Round Duct Construction Standards for the scheduled pressure class. Elbows shall have a centerline radius of 1.5 times diameter unless space restrictions require shorter radii with turning vanes or radius throats. All ductwork shall be sealed to SMACNA Seal Class A (all transverse joints, longitudinal seams, and duct wall penetrations) using mastic or approved liquid sealant plus tape where required. Low-pressure duct leakage shall not exceed SMACNA Leakage Class 6, medium-pressure Class 3, and high-pressure Class 3 when tested in accordance with SMACNA HVAC Air Duct Leakage Test Manual.

Ducts shall be supported by 1½-inch × 18-gauge galvanized straps or 1½-inch × 12-gauge trapeze hangers at intervals not exceeding SMACNA requirements, with upper attachments to structure capable of supporting 4 times the load.

The residential clothes dryer exhaust vent system shall comply with Section 504 of the Michigan Mechanical Code (, 2021 edition). Dryers must exhaust directly to the outdoors, except for listed condensing models, with the system independent of other ventilation.

The primary exhaust duct shall be rigid metal (galvanized steel or aluminum), minimum 0.016-inch thickness (28-gauge), with a smooth interior. Joints shall be mechanically fastened without protruding screws and sealed with approved tape or mastic, oriented in the direction of airflow.

The duct shall have a nominal 4-inch diameter and a maximum developed length of 35 feet from the dryer transition to the outdoor termination, excluding the transition duct. Deduct 5 feet for each 90-degree elbow and 2.5 feet for each 45-degree elbow. Longer runs are permitted only if supported by the dryer manufacturer's instructions, with equivalent length calculations and a permanent label provided.

The transition duct from dryer to rigid exhaust shall be a single, listed flexible length (UL 2158A), not exceeding 8 feet, and must remain unco concealed. Ducts shall be supported at intervals not exceeding 12 feet and protected from damage in concealed locations.

Outdoor termination shall include a backdraft damper (louvered hood preferred), be at least 3 feet from building openings, and have no screens, maintaining at least 12.5 square inches of open area.

Manual Volume Dampers

Manual volume dampers shall be heavy-duty, opposed-blade type constructed of galvanized steel (ASTM A653, G90 coating) for rectangular ducts and butterfly type with airfoil blade for round ducts. Frames shall be minimum 16-gauge galvanized steel with welded or mechanically fastened corners and ½-inch-diameter plated steel axes rotating in oil-impregnated bronze or nylon bearings. Blades shall be minimum 16-gauge galvanized steel (double-thickness airfoil profile for sizes over 12 inches) with synthetic seals on blade edges and flexible metal jamb seals to achieve leakage not exceeding 8 cfm/ft² at 4 in. wg when tested per AMCA 500-D.

Each damper shall be provided with a ½-inch square-end locking quadrant regulator with elevated stand-off mounting bracket for insulated ducts, clearly marked open/closed positions, and a locking wing nut or set screw. Dampers in medium-pressure duct systems (over 3 in. wg) shall have sealed axes and end bearings with thrust washers. All dampers shall be Ruskin Model 8140 (rectangular), Ruskin CD-50 (round), or approved equal, sized for a maximum face velocity of 2000 fpm and pressure drop not exceeding 0.10 in. wg when 75% open. Installation shall permit full blade movement without binding and allow access for future adjustment.

Turning Vanes

Turning vanes shall be provided in all square (mitered) 90° rectangular elbows where duct width exceeds 12 inches or velocity exceeds 1000 fpm. Vanes shall be factory-fabricated, double-wall airfoil type, 24-gauge galvanized steel with hemmed trailing edges, installed on continuous rails at maximum 2¼-inch centers. Acceptable products: Aero-Dyne High Efficiency, Ductmate 45°, or approved equal. Install parallel to airflow and securely lock rails into duct walls. Vanes are not required in radius elbows having centerline radius ≥ 1.5 times duct width.

Flexible Duct Connectors

Flexible duct connectors shall be installed at all connections between ductwork and fans, air handlers, or equipment producing vibration to isolate noise and vibration. Fabric shall be double-coated neoprene or vinyl-impregnated fiberglass, minimum 30 oz/yd², UL 214 listed, with temperature range -40 °F to 200 °F and pressure rating matching the duct system. Metal end retainers shall be 24-gauge galvanized steel grip-strip or clinch-type with continuous welds or mechanical lock seams.

Acceptable manufacturers: Duro Dyne Vibra-Sorb, Ventfabrics Ventglas, or approved equal. Connectors shall be 4 inches wide minimum, installed slack without tension, and secured with stainless steel draw bands or sheet metal screws at 4-inch maximum spacing. Flexible connectors shall comply with SMACNA standards and NFPA 90A. Flexible duct shall be UL 181, Class 1 listed, factory-insulated with fiberglass blanket having a minimum R-value of 8.0 (unless R-6 is scheduled), vapor barrier jacket of reinforced foil/kraft (minimum 20 per mil), and galvanized steel helical wire core. Maximum length shall not exceed 5 feet for any run; duct shall be installed fully extended with no sags or kinks and supported every 4 feet with 1½-inch-wide galvanized strap or approved saddle supports, maintaining a maximum sag of ½ inch per foot. Bends shall not exceed one full 90° turn and shall have a minimum centerline bend radius of one duct diameter.

Connections shall be secured with stainless steel draw bands or worm-gear clamps over inner liner and insulation, sealed with UL 181B-FX mastic or foil tape, and outer jacket sealed with tape. Flexible duct is permitted only for final connections to diffusers, grilles, and registers. Acceptable manufacturers: Thermaflex M-KE, Flexmaster Type 8M, or approved equal. Installation shall comply with SMACNA Flexible Duct Installation Standards and the International Mechanical Code.

Indoor Duct Insulation

Indoor supply and outside air ductwork shall be externally insulated with flexible fiberglass blanket having a minimum installed R-value of 8.0 (unless higher is scheduled), minimum density ¾ lb/ft³, factory-applied reinforced foil/scrim/kraft (FSK) vapor barrier jacket with maximum 0.02 perm rating, and meeting NFPA 90A 25/50 flame/smoke requirements per ASTM E84. Insulation shall be secured with weld pins or stick clips on 12-inch centers and sealed with pressure-sensitive foil tape matching the jacket; all joints shall be lapped 2 inches minimum and stapled every 4 inches.

Concealed rectangular ducts shall have insulation adhered with 100% coverage adhesive plus mechanical fasteners; exposed round ducts and fittings shall be insulated with 1½-inch-thick preformed fiberglass pipe insulation sections or flexible blanket wrapped tightly and sealed. All penetrations, hangers, and damaged areas shall be vapor-sealed. Acceptable manufacturers: Owens Corning SOFTR, Johns Manville Microlite FSK, Knauf Duct Wrap, or approved equal. Installation shall comply with the latest SMACNA HVAC Duct Construction Standards, ASHRAE 90.1, and the International Energy Conservation Code. No internal acoustic liner shall be substituted for external thermal insulation unless specifically scheduled.

Air Systems Balancing

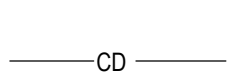
All HVAC air distribution systems shall be balanced by an independent testing and balancing agency certified by AABC, NEBB, or TABB. Balancing shall be performed in strict accordance with the latest edition of AABC National Standards or NEBB Procedural Standards for Testing, Adjusting, and Balancing of Environmental Systems. The agency shall proportionally balance all supply, return, exhaust, and outside air branches, adjust fan speeds (sheaves and/or VFDs) to achieve scheduled total airflow within ±5%, and set all terminal outlets and inlets within ±10% of design cfm. Outdoor air quantities shall be verified and documented to meet minimum ventilation requirements per ASHRAE 62.1 and the International Mechanical Code.

A complete report shall be submitted in bound form and electronic PDF, including fan curves, final motor data (rpm, amperage, voltage, brake horsepower), system diagrams with test locations, and individual outlet/inlet readings. The balancing agency shall mark all final damper positions and ceiling diffuser settings with permanent identification. Final acceptance of mechanical systems shall not occur until the Owner's representative has reviewed and approved the certified balance report.

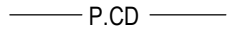
GENERAL NOTES

- THE INTENT OF THE DRAWINGS AND SPECIFICATIONS IS TO PROVIDE COMPLETE AND PROPERLY FUNCTIONING BUILDING SYSTEMS. THE CONTRACTOR SHALL PROVIDE ALL LABOR AND MATERIAL NECESSARY TO ACHIEVE SUCH ENDS.
- THESE DRAWINGS ARE SCHEMATIC AND ARE INTENDED TO SHOW EQUIPMENT AND SYSTEMS AS ACCURATELY AS POSSIBLE. ALL CRITICAL LOCATIONS AND DIMENSIONS SHALL BE DETERMINED IN THE FIELD. IN CASE OF A CONFLICT BETWEEN THE DRAWINGS AND THE SPECIFICATIONS, THE MOST STRINGENT REQUIREMENTS SHALL APPLY AS DETERMINED BY THE OWNER.
- THE CONTRACTOR SHALL COMPLY WITH ALL LAWS, STANDARDS, ORDINANCES, RULES AND REGULATIONS OF ALL LOCAL AND STATE GOVERNMENTAL AUTHORITIES, THE RULES OF THE NATIONAL FIRE PROTECTION ASSOCIATION (NFPA), THE NATIONAL ELECTRICAL CODE (NEC), THE AMERICANS WITH DISABILITIES ACT AND ASHRAE AS INTERPRETED BY THE AUTHORITY HAVING JURISDICTION OVER ANY OF THE SYSTEMS HEREIN SPECIFIED.
- THE SITE, LOCATION AND ROUTING OF BUILDING SYSTEMS ARE SHOWN AS ACCURATELY AS POSSIBLE. THE CONTRACTOR SHALL ACKNOWLEDGE ACCEPTANCE OF THIS PLAN SET AS AN ADEQUATE DEFINITION OF THE SCOPE OF WORK AND EXTRA COST CLAIMS BASED ON INADEQUACY OF PLANS WILL NOT BE CONSIDERED. NO CONSIDERATION OR ALLOWANCE WILL BE GRANTED FOR MISUNDERSTANDINGS OF THE CONTRACTUAL REQUIREMENTS.
- WHERE SITE CONDITIONS REQUIRE MINOR DEVIATIONS FROM THE CONTRACT DOCUMENTS, MAKE SUCH DEVIATIONS WITHOUT COST TO THE OWNER. MAJOR DEVIATIONS SHALL NOT BE MADE WITHOUT FIRST OBTAINING WRITTEN PERMISSION FROM THE OWNER'S REPRESENTATIVE.
- THE CONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS IN ACCORDANCE WITH THE BEST ENGINEERING PRACTICE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLING ALL EQUIPMENT IN STRICT ACCORDANCE WITH THE MANUFACTURER'S PUBLISHED INSTALLATION INSTRUCTIONS. THIS SHALL INCLUDE PROVIDING CLEARANCES AS DEFINED IN THE INSTALLATION INSTRUCTIONS AND IN ACCORDANCE WITH NEC REQUIREMENTS. PROVIDE ALL AUXILIARY ITEMS REQUIRED TO PERFORM FUNCTION INTENDED.
- ALL EQUIPMENT AND WORKMANSHIP SHALL BE GUARANTEED FOR A MINIMUM OF ONE (1) YEAR FROM DATE OF ACCEPTANCE BY OWNER.

SYMBOLS



CONDENSATE DRAIN



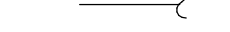
PUMPED CONDENSATE DRAIN



PIPE TURNING DOWN



PIPE TURNING UP



PIPE CONTINUING



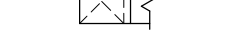
DUCT/PIPING TRANSITION



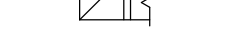
DUCT W/ TURNING VANES



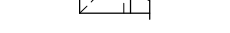
EXHAUST DUCT UP



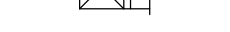
EXHAUST DUCT DOWN



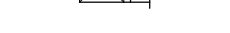
RETURN DUCT UP



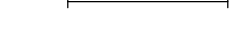
RETURN DUCT DOWN



SUPPLY DUCT UP



SUPPLY DUCT DOWN



SOUND LINED DUCT



DRAWING NOTE - MECHANICAL



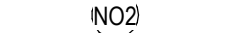
THERMOSTAT



REVERSE ACTING THERMOSTAT



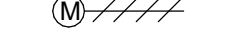
CARBON DIOXIDE SENSOR



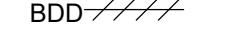
NITROGEN DIOXIDE SENSOR



CO2 MONOXIDE SENSOR



MOTORIZED DAMPER



BACKDRAFT DAMPER



BAROMETRIC RELIEF DAMPER



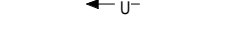
MANUAL AIR BALANCING DAMPER



HORIZONTAL FIRE DAMPER



CEILING RADIATION DAMPER



UNDERCUT DOOR WITH CFM

ABBREVIATIONS

|      |                                             |
|------|---------------------------------------------|
| AHU  | AIR HANDLING UNIT                           |
| A.P. | ACCESS PANEL                                |
| CD   | CEILING DIFFUSER                            |
| CFM  | CUBIC FEET PER MINUTE                       |
| CO   | CLEANOUT                                    |
| CU   | CONDENSING UNIT                             |
| CUH  | CABINET UNIT HEATER                         |
| D    | CONDENSATE DRAIN                            |
| DN   | DOWN                                        |
| EF   | EXHAUST FAN                                 |
| ER   | EXHAUST REGISTER                            |
| ET   | EXPANSION TANK                              |
| FD   | FIRE DAMPER                                 |
| FSD  | COMBINATION MOTORIZED SMOKE AND FIRE DAMPER |
| FPM  | FEET PER MINUTE                             |
| G    | GRILLE                                      |
| HE   | HEAT EXCHANGER                              |
| IN   | INCH                                        |
| LD   | LINEAR DIFFUSER                             |
| MAX  | MAXIMUM                                     |
| MIN  | MINIMUM                                     |
| NSF  | NET SQUARE FOOT                             |
| OA   | OUTDOOR AIR                                 |
| OED  | OPEN END DUCT                               |
| PD   | PRESSURE DROP                               |
| (R)  | EXISTING TO BE RELOCATED                    |
| RA   | RETURN AIR                                  |
| RELA | RELIEF AIR                                  |
| RLD  | RETURN LINEAR DIFFUSER                      |
| SA   | SUPPLY AIR                                  |
| SD   | SMOKE DAMPER                                |
| SF   | SQUARE FEET                                 |
| SR   | SUPPLY REGISTER                             |
| TYP  | TYPICAL                                     |
| UC   | UNDERCUT                                    |
| UH   | UNIT HEATER                                 |
| UON  | UNLESS OTHERWISE NOTED                      |
| VFD  | VARIABLE FREQUENCY DRIVE                    |
| WG   | WATER GAUGE                                 |

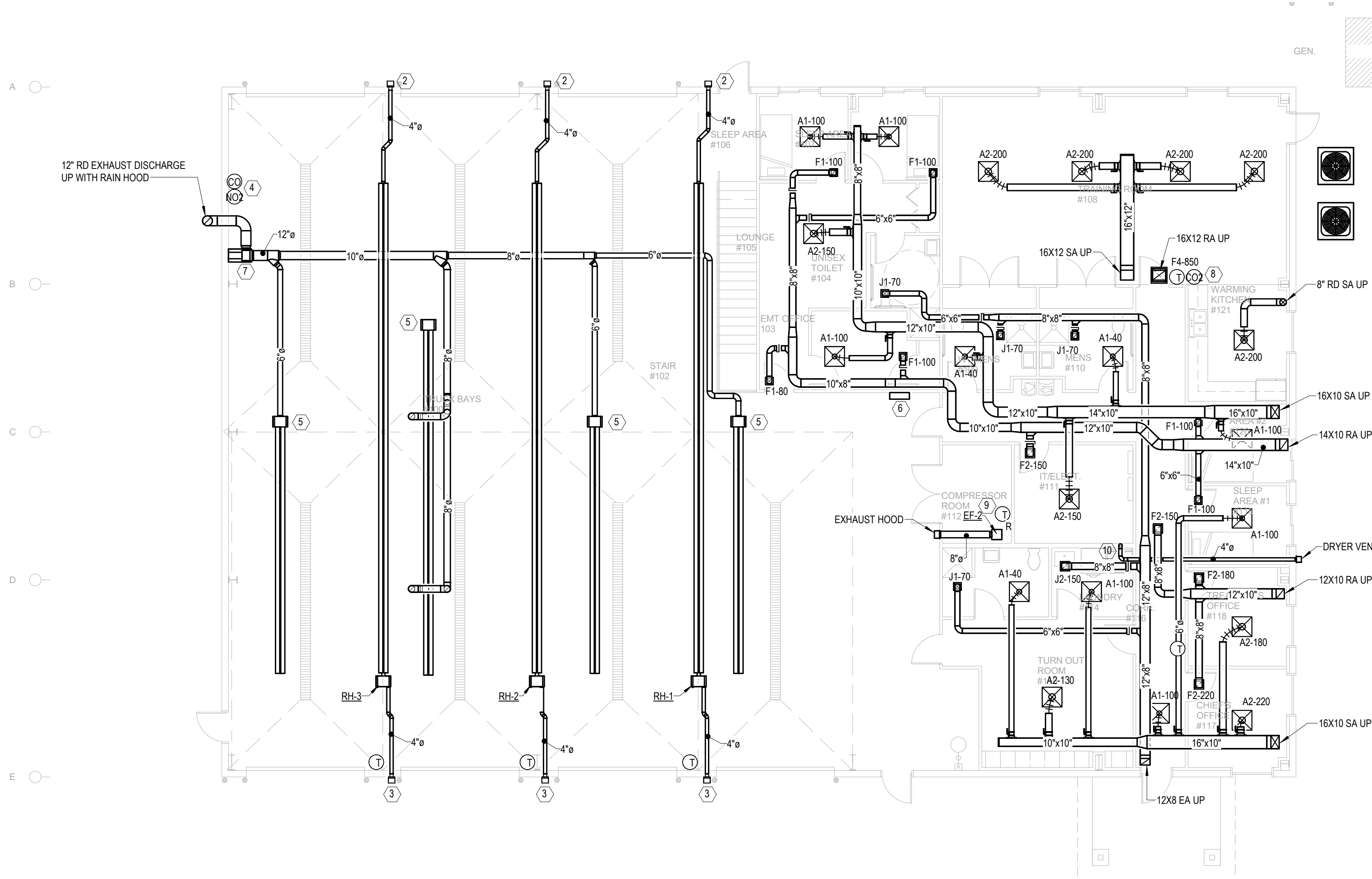
SCALE:  
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M1  
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1242 W. ERICKSON RD  
LINWOOD, MICHIGAN 48634

|                     |
|---------------------|
| JOB NUMBER:         |
| DRAWING: FLOOR PLAN |
| DRAWN BY: DKG       |
| REVIEWED BY:        |
| FIELD SUPERVISOR:   |
| DATE: 7-22-2026     |
| ENGINEER'S SEAL:    |



1 MAIN FLOOR PLAN - HVAC  
SCALE: 1/8" = 1'-0"

HVAC GENERAL NOTES:

1. ALL DUCT WORK SHOWN BOLD DASHED LINES IS LOCATED IN THE ATTIC. ALL DUCTWORK SHOWN BOLD SOLID LINES IS LOCATED BETWEEN THE ATTIC CEILING AND ROOM CEILING.
2. FIRE DAMPERS PER IBC 717.5.2 ARE NOT REQUIRED IN FIRE BARRIERS OF 1 HOUR OF LESS PER EXCEPTION "3" WHERE BUILDING IS EQUIPPED THROUGHOUT WITH AUTOMATIC SPRINKLER SYSTEM AND DUCT SYSTEM CONSTRUCTED OF SHEET STEEL NOT LESS THAN 26 GAUGE THICKNESS AND SHALL BE CONTINUOUS FROM AIR HANDLING UNIT APPLIANCE OR EQUIPMENT TO THE AIR OUTLET AND INLET TERMINALS.
3. SMOKE DAMPERS ARE REQUIRED PER IBC 717.5.5 AT EACH POINT WHERE DUCT PENETRATION OCCURS THROUGH THE SMOKE BARRIER.
4. CEILING RADIATION DAMPERS PER IBC 717.6.2 ARE REQUIRED WHERE DUCT PENETRATES THE CEILING MEMBRANE OF A FIRE RESISTANCE FLOOR/CEILING OF ROOF/CEILING ASSEMBLIES.
5. WHERE FIRE DAMPERS ARE REQUIRED, USE TYPE "B" BLADES OUT OF THE AIRSTREAM.
6. MOST SUPPLY, RETURN AN EXHAUST DUCTWORK IS DESIGNED TO BE RUN IN THE SPACE BETWEEN THE ROOF ASSEMBLY AND THE CEILING OF THE ROOM. IF THE FIELD CONDITIONS CHANGE AND DUCT RUNS ARE IN THE ATTIC THEN CEILING RADIATION DAMPERS ARE REQUIRED WHERE FIRE RATE CEILING ASSEMBLY IS TO BE PENETRATED.
7. MECHANICAL CONTRACTOR SHALL COORDINATE INSTALLATION OF DIFFUSERS AND GRILLES LOCATED IN SUSPENDED CEILING SYSTEMS WITH LIGHTING FIXTURE AND CEILING GRID LAYOUT. ALL DIFFUSERS AND GRILLES SHALL BE CENTERED IN CEILING TILES.
8. CONTRACTOR TO VERIFY CEILING MATERIALS PRIOR TO ORDERING CEILING GRILLES AND DIFFUSERS.
9. MECHANICAL CONTRACTOR TO PAINT ALL VENT STACKS ABOVE ROOF. COLOR TO MATCH ROOF COLOR. VERIFY FINAL COLOR WITH ARCHITECT.
10. PROVIDE VOLUME DAMPERS IN TAKE-OFF BRANCHES TO ALL CEILING DIFFUSERS, GRILLES, AND REGISTERS. LOCATED IN ACCESSIBLE LOCATIONS.

DRAWING NOTES:

1. OUTDOOR AIR COOLED CONDENSING UNIT MOUNT ON RUBBER ISOLATORS ON 4" THICK CONCRETE PAD. EXTEND REFRIGERANT SUCTION AND REFRIGERANT LIQUID LINES TO THEIR MATCHING FURNACE NUMBER.
2. EXTEND SINGLE WALL 26 GAUGE GALVANIZED METAL PIPE TO WALL. CONVERT TO DOUBLE WALL "B" VENT BEFORE PENETRATING WALL. EXTEND DOUBLE WALL "B" VENT THRU WALL WITH WALL THIMBLE. EXTEND MINIMUM 6" BEYOND OUTSIDE WALL AND CAP WITH SIDEWALL VENT CAP.
3. INTAKE HOOD WITH BIRDSCREEN, PAINT TO MATCH BUILDING
4. WHENEVER CO OR NO2 DETECTORS SENSE HIGH LEVELS OF CARBON MONOXIDE OR NITROGEN DIOXIDE, SOUND AUDIBLE ALARM AND OPEN GARAGE DOORS.
5. VEHICLE EXHAUST SYSTEM SHALL BE MAGNEGRIP STRAIGHTRAIL SYSTEM DESIGNED FOR EMERGENCY RESPONSE VEHICLES. VEHICLE EXHAUST SYSTEM IS TROLLEY SYSTEM THAT TRAVELS WITH THE MOVEMENT OF THE VEHICLE. PROVIDE WITH FUNNEL SHAPED INLET AT VEHICLE WITH FLEXIBLE RUBBER LIPS TO SEAL AROUND THE INLET. WHENEVER THE EMERGENCY RESPONSE VEHICLE IS STARTED, AN AUTO-START SENSOR SWITCHES ON THE EXHAUST FAN DRAWING EXHAUST EMISSIONS INTO THE RAIL AND DUCTWORK. AS THE EMERGENCY VEHICLE EXITS THE GARAGE, THE TROLLEY SHALL GLIDE ALONG THE RAIL AND THE NOZZLE SHALL AUTOMATICALLY DISCONNECT AT THE DOORWAY. FOR COMPLETE DESIGN ASSISTANCE CONTACT JACK ROSSMAN AT CLEAN AIR CONCEPTS 1-800-881-3565.
6. VEHICLE EXHAUST SYSTEM CONTROL PANEL
7. MOUNT EXHAUST FAN ON PLATFORM OVER RADIANT HEAT SYSTEM
8. DEMAND CONTROLLED VENTILATION - OUTDOOR AIR INTAKE DAMPER - THE OUTDOOR AIR CO2 SENSOR SHALL CONTINUOUSLY MONITOR SPACE CO2 LEVELS. WHEN CO2 LEVELS RISE ABOVE 800 PPM, THE DDC CONTROLLER SHALL MODULATE THE OUTDOOR AIR INTAKE DAMPER OPEN UP TO 20 PERCENT OPEN AT A CO2 LEVEL OF 1100 PPM (ADJUSTABLE). WHEN CO2 LEVELS FALL BELOW 800 PPM, THE DAMPER SHALL MODULATE CLOSED. THE OUTDOOR AIR DAMPER SHALL FAIL CLOSED ON LOSS OF CONTROL POWER OR SIGNAL.
9. A REVERSE ACTING LINE VOLTAGE THERMOSTAT SHALL BE LOCATED IN THE SPACE AS INDICATED ON THE DRAWINGS. ON A RISE IN SPACE TEMPERATURE ABOVE 80°F (ADJUSTABLE), THE THERMOSTAT SHALL ENERGIZE THE EXHAUST FAN. ON A FALL IN SPACE TEMPERATURE BELOW 80°F LESS THE THERMOSTAT DIFFERENTIAL, THE THERMOSTAT SHALL DE-ENERGIZE THE EXHAUST FAN. THE THERMOSTAT SETPOINT SHALL BE FIELD ADJUSTABLE.
10. CONNECT 4" DIAMETER DRYER EXHAUST DUCT TO DRYER WITH A LISTED FLEXIBLE METAL TRANSITION DUCT, MAXIMUM 8'-0" LONG, FULLY EXTENDED, IN ACCORDANCE WITH THE DRYER MANUFACTURERS INSTRUCTIONS. FLEXIBLE CONNECTOR SHALL NOT BE CONCEALED WITHIN CONSTRUCTION. REMAINDER OF DRYER EXHAUST DUCT SYSTEM SHALL BE RIGID OR SEMI-RIGID METAL DUCT. NO SCREWS OR OTHER FASTENERS SHALL PENETRATE THE DUCT INTERIOR. PROVIDE MANUFACTURER'S BACKDRAFT DAMPER AT EXTERIOR TERMINATION.

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| JOB NUMBER:         |
| DRAWING: FLOOR PLAN |
| DRAWN BY: DKG       |
| REVIEWED BY:        |
| FIELD SUPERVISOR:   |
| DATE: 7-22-2026     |

ENGINEER'S SEAL:

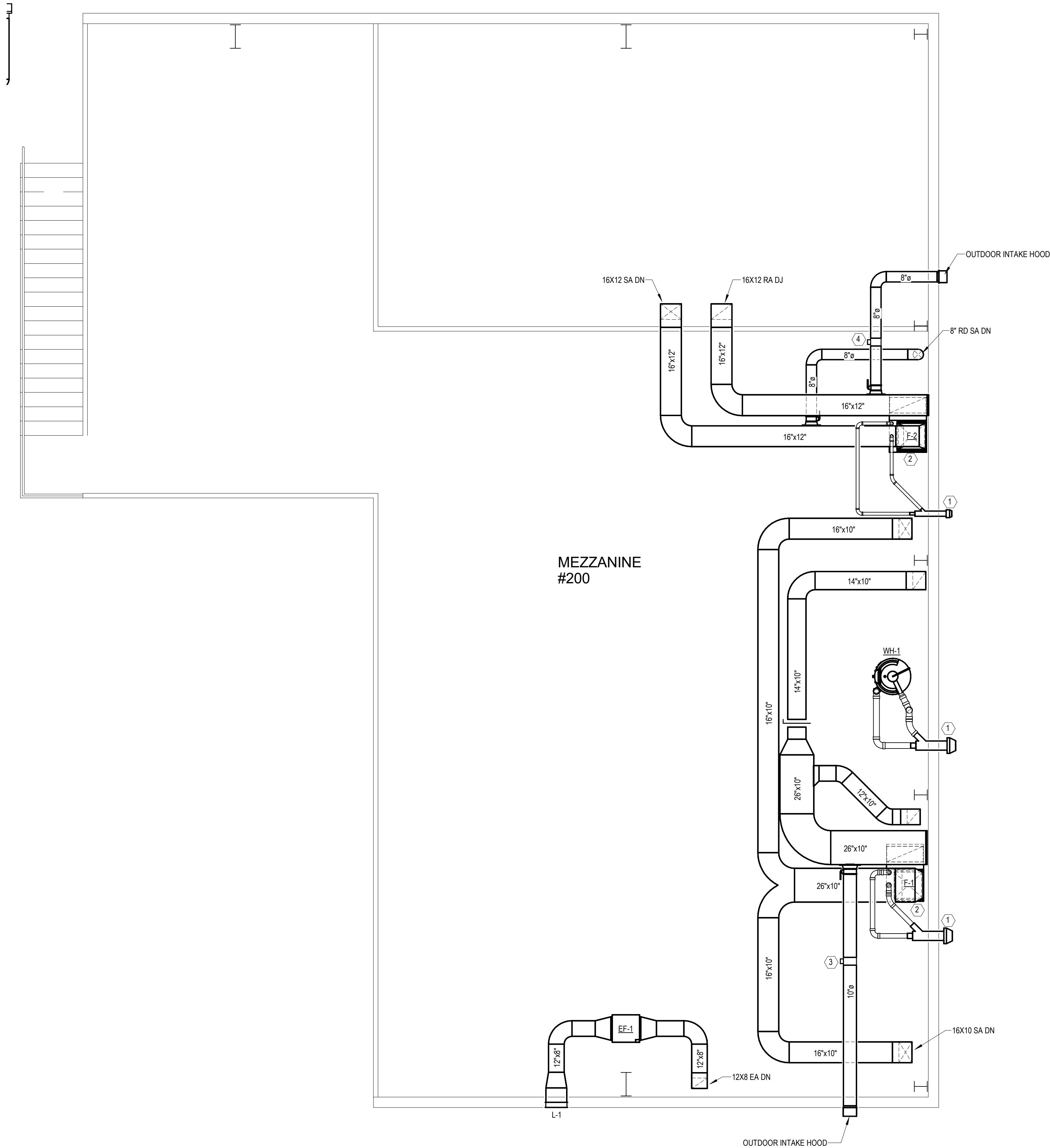
GARFIELD TOWNSHIP  
FIRE DEPARTMENT  
1242 W. ERICKSON RD  
LINWOOD, MICHIGAN 48634

JBS contracting Inc.  
1680 GOVER PARKWAY  
MT. PLEASANT, MI 48858  
(989) 773-0770  
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M2  
GARFIELD TOWNSHIP  
FIRE DEPARTMENT



1 ENLARGED PLAN - MEZZANINE 200  
SCALE: 1/4" = 1'-0"

- HVAC GENERAL NOTES:**
1. ALL DUCT WORK SHOWN BOLD DASHED LINES IS LOCATED IN THE ATTIC. ALL DUCTWORK SHOWN BOLD SOLID LINES IS LOCATED BETWEEN THE ATTIC CEILING AND ROOM CEILING.
  2. FIRE DAMPERS PER IBC 717.5.2 ARE NOT REQUIRED IN FIRE BARRIERS OF 1 HOUR OF LESS PER EXCEPTION 3" WHERE BUILDING IS EQUIPPED THROUGHOUT WITH AUTOMATIC SPRINKLER SYSTEM AND DUCT SYSTEM CONSTRUCTED OF SHEET STEEL NOT LESS THAN 26 GAUGE THICKNESS AND SHALL BE CONTINUOUS FROM AIR HANDLING UNIT APPLIANCE OR EQUIPMENT TO THE AIR OUTLET AND INLET TERMINALS.
  3. SMOKE DAMPERS ARE REQUIRED PER IBC 717.5.5 AT EACH POINT WHERE DUCT PENETRATION OCCURS THROUGH THE SMOKE BARRIER.
  4. CEILING RADIATION DAMPERS PER IBC 717.6.2 ARE REQUIRED WHERE DUCT PENETRATES THE CEILING MEMBRANE OF A FIRE RESISTANCE FLOOR/CEILING OF ROOF/CEILING ASSEMBLIES.
  5. WHERE FIRE DAMPERS ARE REQUIRED, USE TYPE "B" BLADES OUT OF THE AIRSTREAM.
  6. MOST SUPPLY, RETURN AN EXHAUST DUCTWORK IS DESIGNED TO BE RUN IN THE SPACE BETWEEN THE ROOF ASSEMBLY AND THE CEILING OF THE ROOM. IF THE FIELD CONDITIONS CHANGE AND DUCT RUNS ARE IN THE ATTIC THEN CEILING RADIATION DAMPERS ARE REQUIRED WHERE FIRE RATE, CEILING ASSEMBLY IS TO BE PENETRATED.
  7. MECHANICAL CONTRACTOR SHALL COORDINATE INSTALLATION OF DIFFUSERS AND GRILLES LOCATED IN SUSPENDED CEILINGS SYSTEMS WITH LIGHTING FIXTURE AND CEILING GRID LAYOUT. ALL DIFFUSERS AND GRILLES SHALL BE CENTERED IN CEILING TILES.
  8. CONTRACTOR TO VERIFY CEILING MATERIALS PRIOR TO ORDERING CEILING GRILLES AND DIFFUSERS.
  9. MECHANICAL CONTRACTOR TO PAINT ALL VENT STACKS ABOVE ROOF. COLOR TO MATCH ROOF COLOR, VERIFY FINAL COLOR WITH ARCHITECT.
  10. PROVIDE VOLUME DAMPERS IN TAKE-OFF BRANCHES TO ALL CEILING DIFFUSERS, GRILLES, AND REGISTERS. LOCATED IN ACCESSIBLE LOCATIONS.

- DRAWING NOTES:**
- 1 COMBUSTION AIR INTAKE AND EXHAUST. SIZE PER MANUFACTURE'S WRITTEN RECOMMENDATIONS.
  - 2 FURNACE AND MATCHING COOLING COIL. EXTEND REFRIGERATION SUCTION AND REFRIGERATION LIQUID LINES TO ASSOCIATED CONDENSING UNIT LOCATED ON SITE. SIZE REFRIGERATION PIPING PER MANUFACTURE'S WRITTEN RECOMMENDATIONS.
  - 3 OUTDOOR AIR INTAKE MOTORIZED DAMPER, WIRE TO ASSOCIATED FURNACE TO OPEN WHENEVER FURNACE IS OPERATING.
  - 4 DEMAND CONTROLLED VENTILATION - OUTDOOR AIR INTAKE DAMPER - THE OUTDOOR AIR CO2 SENSOR SHALL CONTINUOUSLY MONITOR SPACE CO2 LEVELS. WHEN CO2 LEVELS RISE ABOVE 800 PPM, THE DDC CONTROLLER SHALL MODULATE THE OUTDOOR AIR INTAKE DAMPER OPEN UP TO 20 PERCENT OPEN AT A CO2 LEVEL OF 1100 PPM (ADJUSTABLE). WHEN CO2 LEVELS FALL BELOW 800 PPM, THE DAMPER SHALL MODULATE CLOSED. THE OUTDOOR AIR DAMPER SHALL FAIL CLOSED ON LOSS OF CONTROL POWER OR SIGNAL.

| REVISIONS |       |         |
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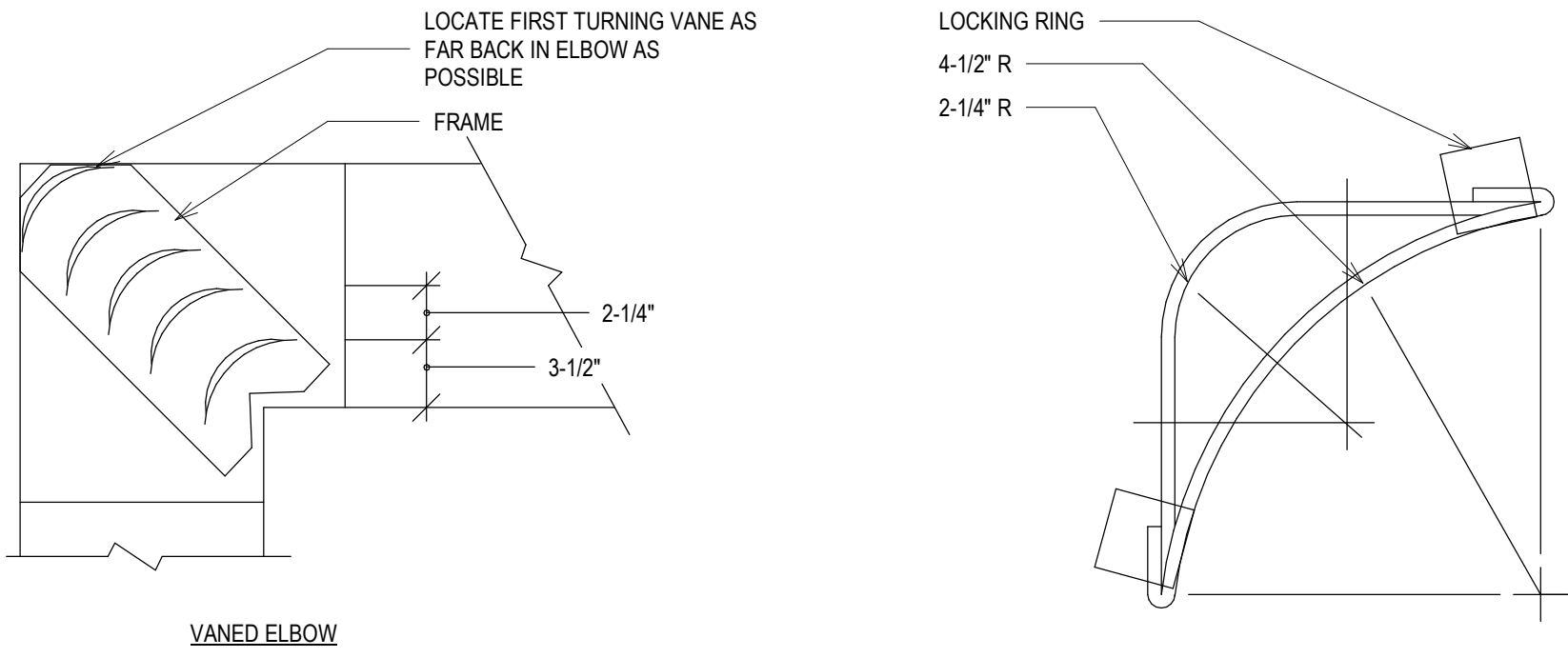
SCALE:  
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**M3**  
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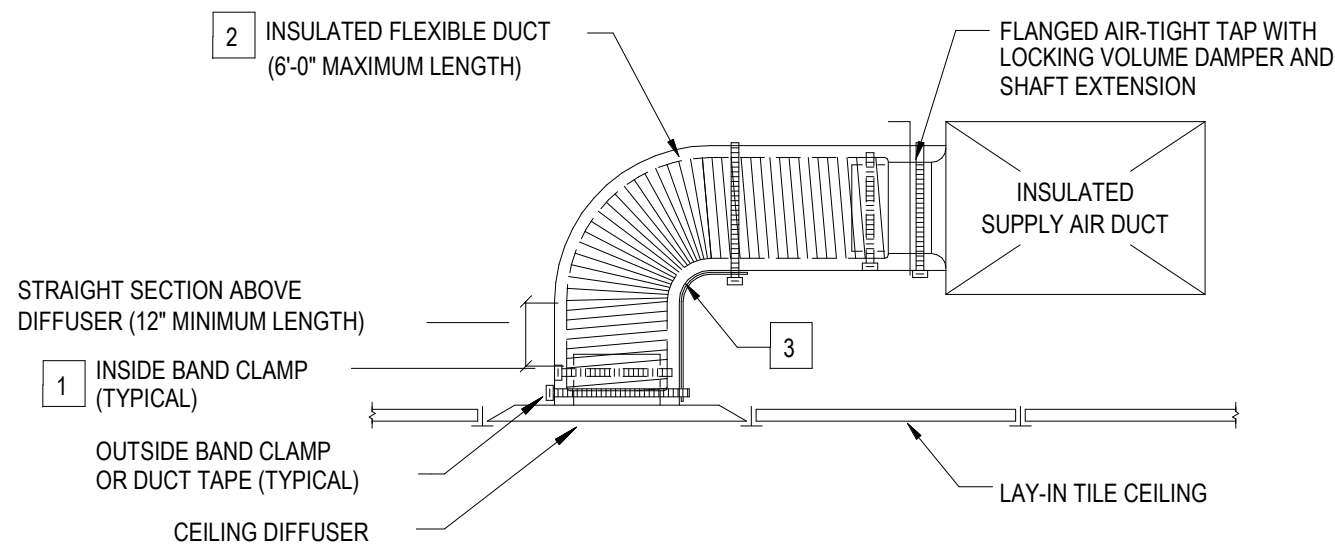
GARFIELD TOWNSHIP  
FIRE DEPARTMENT  
1242 W. ERICKSON RD  
LINWOOD, MICHIGAN 48634

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| ENGINEER'S SEAL:    |



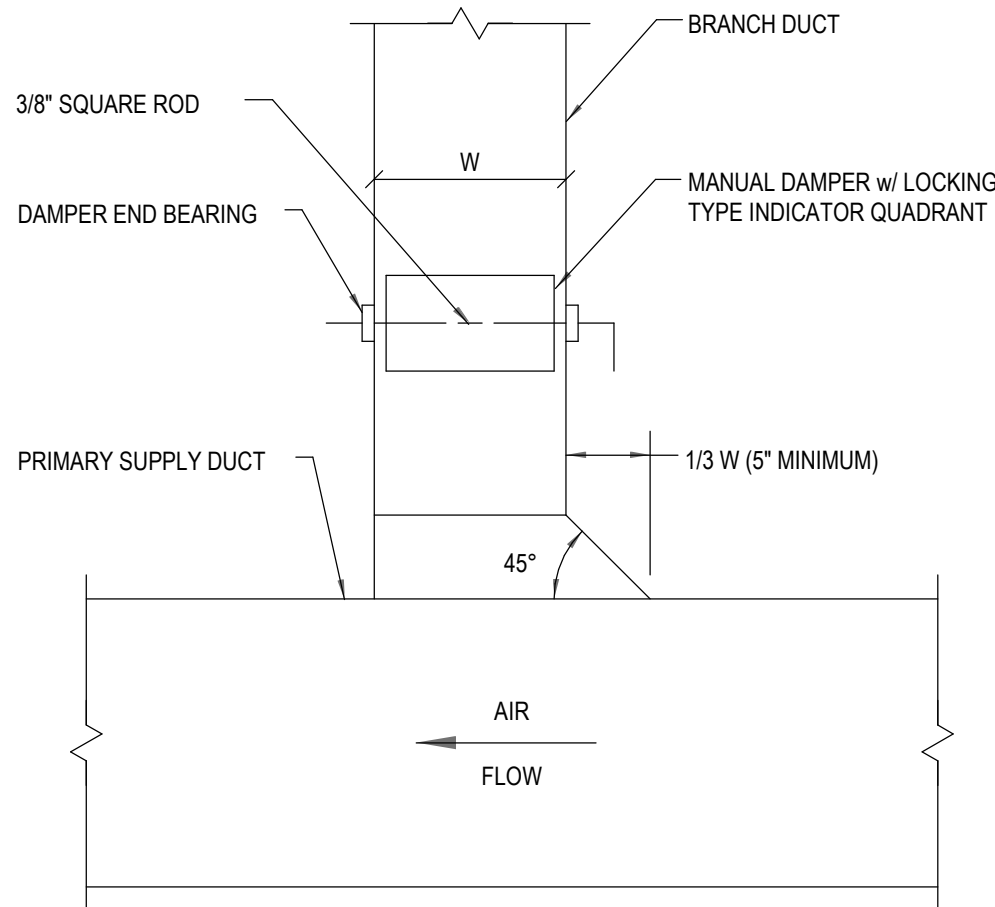
TURNING VANES FOR SQUARE ELBOW DETAIL

NOT TO SCALE



CEILING DIFFUSER CONNECTION DETAIL

NOT TO SCALE



BRANCH DUCT AND DAMPER ASSEMBLY DETAIL

NOT TO SCALE

FURANCE SCHEDULE

| MARK | LOCATION      | TYPE                                      | SA CFM | O.A. CFM | ESP  | COMB. AIR PIPE SIZE |        | HEATING DATA |              |             |              |    |     | ELECTRICAL DATA |     |            | MANUFACTURE AND MODEL NUMBER | REMARKS                                                         |                   |                                       |
|------|---------------|-------------------------------------------|--------|----------|------|---------------------|--------|--------------|--------------|-------------|--------------|----|-----|-----------------|-----|------------|------------------------------|-----------------------------------------------------------------|-------------------|---------------------------------------|
|      |               |                                           |        |          |      |                     |        | STAGE 1      |              | STAGE 2     |              |    |     | EAT             | LAT | EFFICIENCY |                              |                                                                 | VOLTS             | PH                                    |
|      |               |                                           |        |          |      | EXHAUST             | INTAKE | INPUT (MBH)  | OTUPUT (MBH) | INPUT (MBH) | OUTPUT (MBH) |    |     |                 |     |            |                              |                                                                 |                   |                                       |
| F-1  | MEZZANINE 200 | UP FLOW - VARIABLE SPEED, 2-STAGE HEATING | 1650   | 330      | 0.50 | 3                   | 3      | 65.0         | 63.0         | 100.0       | 97.0         | 55 | 115 | 97              | 115 | 1          | 1                            | FURNISH WITH MATCHING 3-1/2 TON CASED COIL, CONCENTRIC VENT KIT | BRYANT MODEL 986T | SUPPLY FAN MOTOR = VARIABLE SPEED ECM |
| F-2  | MEZZANINE 200 | UP FLOW - VARIABLE SPEED, 2-STAGE HEATING | 1000   | 250      | 0.50 | 2                   | 2      | 52.0         | 51.0         | 80.0        | 78.0         | 55 | 115 | 97.5            | 115 | 1          | 3/4                          | FURNISH WITH MATCHING 3 TON CASED COIL, CONCENTRIC VENT KIT     | BRYANT MODEL 986T | SUPPLY FAN MOTOR = VARIABLE SPEED ECM |

CONDENSING UNIT SCHEDULE

| MARK | SYSTEM | TYPE                               | REFR. TYPE | FAN DATA |      |         | ELECTRICAL DATA |       |     | TRIM                                                             | MANUFACTURE AND MODEL NUMBER     | REMARKS |
|------|--------|------------------------------------|------------|----------|------|---------|-----------------|-------|-----|------------------------------------------------------------------|----------------------------------|---------|
|      |        |                                    |            | CFM      | HP   | VOLTS   | PHASE           | MCA   | MFS |                                                                  |                                  |         |
| CU-1 | F-1    | OUTDOOR AIR COOLED CONDENSING UNIT | R454B      | 3365     | 1/4  | 208/230 | 1               | 23.84 | 40  | FURNISH WITH HARD SHUT-OFF TXV, SUPPORT FEET, PRE-FABRICATED PAD | BRYANT LEGACY MODEL 134SAN04800N |         |
| CU-2 | F-2    | OUTDOOR AIR COOLED CONDENSING UNIT | R454B      | 2700     | 1/80 | 208/230 | 1               | 16.2  | 25  | FURNISH WITH HARD SHUT-OFF TXV, SUPPORT FEET, PRE-FABRICATED PAD | BRYANT LEGACY MODEL 134SAN03000N |         |

FAN SCHEDULE

| MARK | SYSTEM  | LOCATION               | TYPE                   | DRIVE  | SPEED<br>(CFM) | STATIC PRESSURE<br>(IN OF WC) |       | FAN<br>RPM | ELECTRICAL DATA |       |    |      | TRIM                                                                                       | MANUFACTURE MAKE AND<br>MODEL NUMBER | REMARKS |
|------|---------|------------------------|------------------------|--------|----------------|-------------------------------|-------|------------|-----------------|-------|----|------|--------------------------------------------------------------------------------------------|--------------------------------------|---------|
|      |         |                        |                        |        | HIGH           | EXTERNAL                      | TOTAL |            | HP              | VOLTS | PH | RPM  |                                                                                            |                                      |         |
| EF-1 | EXHAUST | MEZZANINE 200          | INLINE                 | DIRECT | 430            | 0.50                          | 0.50  | 1676       | /61             | 151   | 1  | 0081 | FURNISH IWTH EC MOTOR, BACKDRAFT DAMPER                                                    | GREENHECK MODEL<br>SQ-90-VG          |         |
| EF-2 | EXHAUST | COMPRESSOR<br>ROOM 112 | CEILING EXHAUST<br>FAN | DIRECT | 200            | 0.25                          | 0.26  | 900        | 53<br>WATTS     | 115   | 1  | 900  | FURNISH WITH SOLID STATE SPEED CONTROL, INTEGRAL<br>BACKDRAFT DAMPER, PLUG TYPE DISCONNECT | GREENHECK MODEL<br>SP-A200           |         |

RADIANT HEATER SCHEDULE

| MARK | LOCATION     | TYPE                                             | COMB. AIR PIPE SIZE |        | INLET GAS PRESS. (INL W.G.) | HEAT INPUT (MBH) | DIMENSIONAL DATA     |                  | ELECTRICAL DATA |    |      | TRIM                          | MANUFACTURE AND MODEL NUMBER    | REMARKS |
|------|--------------|--------------------------------------------------|---------------------|--------|-----------------------------|------------------|----------------------|------------------|-----------------|----|------|-------------------------------|---------------------------------|---------|
|      |              |                                                  | EXHAUST             | INTAKE |                             |                  | MOUNTING HEIGHT (FT) | TUBE LENGTH (FT) | VOLTS           | PH | AMPS |                               |                                 |         |
| RH-1 | TRUCK BAY100 | LOW INTENSITY, SINGLE STAGE INFRARED TUBE HEATER | 4                   |        | 10                          | 150.0            | 18                   | 60               | 120             | 1  | 1.1  | 24 VOLT TYHERMOSTATIC CONTROL | RE-VERBER-RAY MODEL DX3L-60-150 |         |
| RH-2 | TRUCK BAY100 | LOW INTENSITY, SINGLE STAGE INFRARED TUBE HEATER | 4                   | 4      | 10                          | 150.0            | 18                   | 60               | 120             | 1  | 1.1  | 24 VOLT TYHERMOSTATIC CONTROL | RE-VERBER-RAY MODEL DX3L-60-150 |         |
| RH-3 | TRUCK BAY100 | LOW INTENSITY, SINGLE STAGE INFRARED TUBE HEATER | 4                   | 4      | 10                          | 150.0            | 18                   | 60               | 120             | 1  | 1.1  | 24 VOLT TYHERMOSTATIC CONTROL | RE-VERBER-RAY MODEL DX3L-60-150 |         |

GRILLE, REGISTER AND DIFFUSER SCHEDULE

| MARK | SYSTEM  | TYPE                  | MOUNTING       | DIMENSIONAL DATA |        |       | MAX PD (IN. WC)   | MAX NC | TRIM                                        | MANUFACTURE MAKE AND MODEL NUMBER | REMARKS                                    |
|------|---------|-----------------------|----------------|------------------|--------|-------|-------------------|--------|---------------------------------------------|-----------------------------------|--------------------------------------------|
|      |         |                       |                | DIA.             | LENGTH | WIDTH | OVERALL SIZE      |        |                                             |                                   |                                            |
| A1   | SUPPLY  | LOUVERED FACE - STEEL | LAY-IN CEILING | 6                |        |       | 24X24             | 0.1    |                                             | PRICE MODEL SMDA                  |                                            |
| A2   | SUPPLY  | LOUVERED FACE - STEEL | LAY-IN CEILING | 8                |        |       | 24X24             | 0.1    |                                             | PRICE MODEL SMDA                  |                                            |
| F1   | RETURN  | PERFORATED - STEEL    | SURFACE        |                  | 6      | 6     | DUCT SIZE + 3-1/2 | 0.1    | PROVIDE WITH OPPOSED BLADE BALANCING DAMPER | PRICE MODEL 10                    | COUNTER SUNK SCREW HOLES WITH WHITE SCREWS |
| F2   | RETURN  | PERFORATED - STEEL    | SURFACE        |                  | 8      | 8     | DUCT SIZE + 3-1/2 | 0.1    | PROVIDE WITH OPPOSED BLADE BALANCING DAMPER | PRICE MODEL 10                    | COUNTER SUNK SCREW HOLES WITH WHITE SCREWS |
| F4   | RETURN  | PERFORATED - STEEL    | SURFACE        |                  | 16     | 16    | DUCT SIZE + 3-1/2 | 0.1    | PROVIDE WITH OPPOSED BLADE BALANCING DAMPER | PRICE MODEL 10                    | COUNTER SUNK SCREW HOLES WITH WHITE SCREWS |
| J1   | EXHAUST | PERFORATED - STEEL    | SURFACE        |                  | 6      | 6     | DUCT SIZE + 3-1/2 | 0.1    | PROVIDE WITH OPPOSED BLADE BALANCING DAMPER | PRICE MODEL 10                    | COUNTER SUNK SCREW HOLES WITH WHITE SCREWS |
| J2   | EXHAUST | PERFORATED - STEEL    | SURFACE        |                  | 8      | 8     | DUCT SIZE + 3-1/2 | 0.1    | PROVIDE WITH OPPOSED BLADE BALANCING DAMPER | PRICE MODEL 10                    | COUNTER SUNK SCREW HOLES WITH WHITE SCREWS |

LOUVER SCHEDULE

| MARK | SYSTEM | TYPE    | DIMENSIONAL DATA |       | TRIM                                     | MANUFACTURE MAKE AND MODEL NUMBER | REMARKS                 |
|------|--------|---------|------------------|-------|------------------------------------------|-----------------------------------|-------------------------|
|      |        |         | LENGTH           | WIDTH |                                          |                                   |                         |
| L-1  | EF-1   | EXHAUST | 16               | 16    | J-STYLE WITH DRAINABLE BLADE, BIRDSCREEN | GREENHECK MODEL ESD-403           | PAINT TO MATCH BUILDING |

|                   |                     |
|-------------------|---------------------|
| JOB NUMBER:       | DRAWING: FLOOR PLAN |
| DRAWN BY: DKG     | REVIEWED BY:        |
| FIELD SUPERVISOR: | DATE: 7-22-2026     |
| ENGINEER'S SEAL:  |                     |

GARFIELD TOWNSHIP  
FIRE DEPARTMENT  
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SCALE:  
1/8" = 1'-0"

M4  
GARFIELD TOWNSHIP  
FIRE DEPARTMENT

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SYMBOLS

ABBREVIATIONS

PLUMBING NOTES

X

RISER DESIGNATION

RISER CALLOUT REFERENCE

RISER NUMBER

TAG NUMBER

PARTIAL PLAN/DETAIL REFERENCE

DRAWING NUMBER

CW

DOMESTIC COLD WATER

HW

DOMESTIC HOT WATER

HWR

DOMESTIC HOT WATER RECIRCULATION

HW-140

140 DEGREE F DOMESTIC HOT WATER

HWR-140

140 DEGREE F DOMESTIC HOT WATER RECIRCULATION

TW

DOMESTIC TEMPERED WATER

TPL

TRAP PRIMER LINE

SAN

SANITARY

P.SAN

PUMPED SANITARY

VENT

SANITARY VENT

ST

STORM DRAIN

P.ST

PUMPED STORM DRAIN

SST

SECONDARY STORM DRAIN

DT

DRAIN TILE

CD

CONDENSATE DRAIN

LP GAS

LIQUEFIED PETROLEUM GAS

CA

COMPRESSED AIR

CLEANOUT

PIPE UP, PIPE DOWN

PIPE CONTINUING

GAS SHUTOFF VALVE

GAS EMERGENCY SOLENOID VALVE

SHUTOFF VALVES

PRESSURE RELIEF VALVE

PRESSURE REGULATING VALVE WITH VENT TO OUTSIDE

PRESSURE REGULATING VALVE WITH VENT TO ATMOSPHERE

BALANCING VALVE

CHECK VALVE

UNION

STRAINER

VENT THRU ROOF

DUAL CHECK BACKFLOW PREVENTER

REDUCED PRESSURE ZONE BACKFLOW PREVENTER WITH AIR GAP FITTING

THERMOMETER

PRESSURE GAUGE

PUMP

FLEXIBLE CONNECTOR

HOSE BIBB

WALL HYDRANT

TRAP PRIMER

WATER HAMMER ARRESTOR

PIPE CAP

THERMOSTATIC MIXING VALVE

WATER SUB-METER

NATURAL GAS SUB-METER

PRESSURE SENSOR

|         |                               |
|---------|-------------------------------|
| ABV     | ABOVE                         |
| AD      | AREAWAY DRAIN                 |
| ADW     | ANIMAL DRINKING WATER         |
| AFF     | ABOVE FINISHED FLOOR          |
| AHJ     | AUTHORITY HAVING JURISDICTION |
| A.P.    | ACCESS PANEL                  |
| APPROX. | APPROXIMATELY                 |
| APRV    | AIR PRESSURE REDUCING VALVE   |
| BAS     | BUILDING AUTOMATION SYSTEM    |
| BFP     | BACKFLOW PREVENTER            |
| BHP     | BRAKE HORSEPOWER              |
| BMS     | BUILDING MANAGEMENT SYSTEM    |
| BOT     | BOTTOM                        |
| BP      | BOOSTER PUMP                  |
| BTU     | BRITISH THERMAL UNIT          |
| BV      | AUTO FLOW CONTROL VALVE       |
| CD      | CONDENSATE DRAIN              |
| CFH     | CUBIC FEET PER HOUR           |
| CIRC    | CIRCUIT                       |
| CLG     | CEILING                       |
| CMU     | CONCRETE MASONRY UNIT         |
| CONST   | CONSTRUCTION                  |
| C.O.    | CLEAN OUT                     |
| COTG    | CLEAN OUT TO GRADE            |
| CP      | CONDENSATE PUMP               |
| CW      | COLD WATER                    |
| DD      | DECK DRAIN                    |
| DI      | DIONIZED WATER                |
| DF      | DRINKING FOUNTAIN             |
| DFU     | DRAINAGE FIXTURE UNIT         |
| DN      | DOWN                          |
| DR      | DRAIN                         |
| DTC     | DRAIN TILE CONNECTION         |
| DU      | DISTRIBUTION UNIT             |
| DW      | DISHWASHER                    |
| DWH     | DOMESTIC WATER HEATER         |
| DSN     | DOWN SPOUT NOZZLE             |
| E. PWR  | EMERGENCY POWER               |
| EQ.S.F. | EQUIVALENT SQUARE FEET        |
| ES      | EMERGENCY SHOWER              |
| ESP     | ELEVATOR SUMP PUMP            |
| ET      | EXPANSION TANK                |
| EW      | EYEWASH                       |
| EWC     | ELECTRIC WATER COOLER         |
| FCU     | FAN COIL UNIT                 |
| FD      | FLOOR DRAIN                   |
| FFD     | FUNNEL DRAIN                  |
| FM      | FLOW METER                    |
| FS      | FLOOR SINK                    |
| G       | GAS                           |
| GAL     | GALLON                        |
| GD      | GARAGE DRAIN                  |
| GM      | GAS METER                     |
| GPD     | GALLONS PER DAY               |
| GPH     | GALLONS PER HOUR              |
| GPM     | GALLONS PER MINUTE            |
| HB      | HOSE BIBB                     |
| HP      | HORSEPOWER                    |
| HR      | HOSE REEL                     |
| HS      | HOSE STATION                  |
| HW      | HOT WATER                     |
| HWC     | HOT WATER CIRCULATOR          |
| HWR     | HOT WATER RECIRCULATION       |

|       |                                  |      |                                |
|-------|----------------------------------|------|--------------------------------|
| I.E.  | INVERT ELEVATION                 | W    | WASTE                          |
| IM    | ICE MAKER                        | WAGD | WASTE ANAESTHETIC GAS DISPOSAL |
| IN    | INCH                             | WC   | WATER CLOSET                   |
| LAV   | LAVATORY                         | WCO  | WALL CLEANOUT                  |
| MA    | MEDICAL AIR                      | WF   | WATER FILTER                   |
| MAX   | MAXIMUM                          | WFO  | WATER FIXTURE UNITS            |
| MBH   | 1000 BRITISH THERMAL UNITS       | WG   | WATER GAUGE                    |
| MIN   | MINIMUM                          | WHA  | WATER HAMMER ARRESTOR          |
| MSB   | MOP SINK BASIN                   | WM   | WATER METER                    |
| MSF   | MOP SINK FAUCET                  | WP   | WATER POLISHER                 |
| MV    | MEDICAL VACUUM                   | WPRV | WATER PRESSURE REDUCING VALVE  |
| NAT   | NATURAL                          | W/   | WITH                           |
| N     | NITROGEN                         | ZVB  | ZONE VALVE BOX                 |
| NC    | NORMALLY CLOSED                  |      |                                |
| NFHB  | NON-FREEZE HOSE BIBB             |      |                                |
| NFRH  | NON-FREEZE ROOF HYDRANT          |      |                                |
| NG    | NATURAL GAS                      |      |                                |
| NO    | NUMBER OR NORMALLY OPEN          |      |                                |
| NOM   | NOMINAL                          |      |                                |
| NPT   | NATIONAL PIPE THREAD             |      |                                |
| NTS   | NOT TO SCALE                     |      |                                |
| OF    | OVERFLOW                         |      |                                |
| OFD   | OVER FLOW DRAIN                  |      |                                |
| OSD   | OPEN SITE DRAIN                  |      |                                |
| P     | PLUMBING FIXTURE                 |      |                                |
| P.DR. | PUMPED DRAIN                     |      |                                |
| PRESS | PRESSURE                         |      |                                |
| PRS   | PRESSURE REDUCING STATION        |      |                                |
| PRV   | PRESSURE REDUCING VALVE          |      |                                |
| PSIG  | PRESSURE PER SQUARE INCH - GAUGE |      |                                |
| P.ST  | PUMPED STORM                     |      |                                |
| PW    | PURE WATER                       |      |                                |
| RD    | ROOF DRAIN                       |      |                                |
| RL    | RAIN LEADER                      |      |                                |
| RO    | REVERSE OSMOSIS                  |      |                                |
| RPZ   | REDUCED PRESSURE ZONE            |      |                                |
| RRS   | RAINWATER RECLAMATION SYSTEM     |      |                                |
| RW    | RINSE WAND                       |      |                                |
| SAN   | SANITARY                         |      |                                |
| SEP   | SEWAGE EJECTOR PUMP              |      |                                |
| SH    | SHOWER HEAD                      |      |                                |
| SHWR  | SHOWER STALL                     |      |                                |
| SP    | SUMP PUMP                        |      |                                |
| SRD   | SECONDARY ROOF DRAIN             |      |                                |
| SSS   | SURGICAL SCRUB SINK              |      |                                |
| SST   | SECONDARY STORM                  |      |                                |
| ST    | STORM                            |      |                                |
| STOR  | STORAGE                          |      |                                |
| T     | TANK                             |      |                                |
| TMV   | THERMOSTATIC MIXING VALVE        |      |                                |
| TP    | TRAP PRIMER                      |      |                                |
| TV    | TEMPERING VALVE                  |      |                                |
| TW    | TEMPERED WATER OR TUNNEL WASHER  |      |                                |
| TYP   | TYPICAL                          |      |                                |
| UL    | UNDERWRITERS LABORATORY          |      |                                |
| UNC   | UNIFIED COURSE THREAD            |      |                                |
| UNDG  | UNDERGROUND                      |      |                                |
| UR    | URINAL                           |      |                                |
| V     | VENT                             |      |                                |
| VB    | VALVE BOX                        |      |                                |
| VFD   | VARIABLE FREQUENCY DRIVE         |      |                                |
| VTR   | VENT THROUGH ROOF                |      |                                |
| VWH   | VIVARIUM WATER HEATER            |      |                                |
| WCO   | WALL CLEANOUT                    |      |                                |
| WO    | WALL OUTLET                      |      |                                |

1.

THESE DRAWINGS ARE SCHEMATIC IN NATURE AND ARE INTENDED TO SHOW EQUIPMENT AND SYSTEMS AS ACCURATELY AS POSSIBLE. ALL CRITICAL LOCATIONS AND DIMENSIONS HAVE BEEN DESIGNED TO FIT AND FUNCTION PROPERLY, HOWEVER, THE CONTRACTOR SHALL VERIFY ALL EQUIPMENT LOCATIONS AND ROUTINGS TO MATCH THE CONDITIONS IN THE FIELD. IN CASE OF CONFLICT BETWEEN THE DRAWINGS AND THE SPECIFICATIONS, THE MOST STRINGENT REQUIREMENTS SHALL APPLY AS DETERMINED BY THE ARCHITECT/ENGINEER.

2.

THE CONTRACTOR SHALL REFER TO THE CONTRACT DOCUMENTS OF OTHER TRADES WHICH ARE COMPLEMENTARY TO THESE DESIGNS. IN CASE OF CONFLICT, THE MOST STRINGENT REQUIREMENTS SHALL APPLY AS DETERMINED BY THE ARCHITECT/ENGINEER.

3.

WHERE SITE CONDITIONS REQUIRE MINOR DIVINATIONS FROM THE CONTRACT DOCUMENTS, MAKE SUCH DEVIATIONS WITHOUT COST TO THE OWNER. MAJOR DEVIATIONS SHALL NOT BE MADE WITHOUT FIRST OBTAINING WRITTEN PERMISSION FROM THE OWNER'S REPRESENTATIVE.

4.

PROVIDE ALL NECESSARY TRANSITIONS IN PIPING FOR COMPLETE INSTALLATION. NOT ALL OFFSETS ARE SHOWN ON THE DRAWINGS. ALL PIPING AN ACCESSORIES SHALL BE FULL SIZE AND REDUCED IN SIZE ONLY IMMEDIATELY BEFORE THE CONNECTION POINT TO EQUIPMENT.

5.

FREE ACCESS IS REQUIRED ON SIDES OF EQUIPMENT. ALL SUCH EQUIPMENT SHALL BE LOCATED AS TO PROVIDE ADEQUATE SERVICE CLEARANCE AND AS REQUIRED TO MEET THE CLEARANCES REQUIRED BY THE NATIONAL ELECTRIC CODE (NEC).

6.

PLUMBING FIXTURES WILL BE AS INDICATED IN THE SPECIFICATIONS AND ON PLUMBING EQUIPMENT SCHEDULES.

7.

ALL SANITARY AND STORM DRAINAGE PIPING IS SIZED FOR AND SHALL BE RUN AT 1/4" PER FOOT SMALLER THAN 3" AND AT 1/8" PER FOOT FOR PIPING 3" AND ABOVE.

8.

ALL PIPING IS TO BE INSTALLED BELOW SLAB OR CONCEALED IN WALLS OR ABOVE CEILING EXCEPT WHERE INDICATED OTHERWISE ON PLANS.

9.

INSTALL PIPE UNIONS AT AUTO CONTROL VALVES AND EQUIPMENT CONNECTIONS.

| LP GAS BUILDING SUMMARY |        |                                                                                                                                                                                                    |
|-------------------------|--------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| EQUIPMENT               | MBH    | GAS PIPE SIZING CRITERIA                                                                                                                                                                           |
| HVAC EQUIPMENT          | 180.0  | LP GAS PIPE SIZING BASED ON UNDILUTED PROPANE 11 INCHES W.C. @ 0.58 INCHES W.C. PRESSURE DROP AND 175 EQUIVALENT LENGTH GAS PIPING. GAS PIPING SHALL BE SCHEDULE 40 BLACK WITH SCREWED CONNECTIONS |
| WATER HEATERS           | 199.0  |                                                                                                                                                                                                    |
| DRYER                   | 25.0   |                                                                                                                                                                                                    |
| GRILL                   | 150.0  |                                                                                                                                                                                                    |
| GENERATOR               | 978.0  |                                                                                                                                                                                                    |
| TOTAL MBH               | 1532.0 |                                                                                                                                                                                                    |

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JOB NUMBER:

DRAWING: FLOOR PLAN

DRAWN BY: DKG

REVIEWED BY:

FIELD SUPERVISOR:

DATE: 7-22-2026

ENGINEER'S SEAL:

GARFIELD TOWNSHIP

FIRE DEPARTMENT

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JBS Contracting Inc.

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(989) 773-0770

COMMERCIAL / INDUSTRIAL CONSTRUCTION

SCALE:

As indicated

P1

GARFIELD TOWNSHIP

FIRE DEPARTMENT

1

- PLUMBING GENERAL NOTES:**
1. PITCH ALL SANITARY WASTE AND KITCHEN WASTE PIPING AT 3" AND ABOVE AT 1/8" PER FOOT.
  2. PITCH ALL SANITARY WASTE AND KITCHEN WASTE PIPING AT 2-1/2" AND BELOW AT 1/4" PER FOOT.
  3. PROVIDE STOP VALVES AT ALL PLUMBING FIXTURES.
  4. PROVIDE CLEANOUTS AT THE BASE OF ALL STACKS, LEADERS AND ALL CHANGE OF DIRECTIONS GREATER THAN 45 DEGREES. AT HORIZONTAL DISTANCES GREATER THAN 50 FEET ON PIPING 4 INCHES IN DIAMETER AND SMALLER. AT HORIZONTAL DISTANCES GREATER THAN 100 FEET ON PIPING GREATER THAN 4 INCHES IN DIAMETER. AND IN CONFORMANCE WITH THE LOCAL PLUMBING CODE. SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
  5. COORDINATE ROUGH-IN DIMENSIONS WITH ARCHITECTURAL DRAWINGS AND FOOD SERVICE EQUIPMENT PLANS.
  6. REFER TO FOOD SERVICE EQUIPMENT PLANS FOR MORE INFORMATION ON EQUIPMENT AND PLUMBING FIXTURES.
  7. ROUTE INDIRECT WASTE PIPING FROM FOOD SERVICE EQUIPMENT, LAUNDRY EQUIPMENT, AND OTHER EQUIPMENT TO INDIRECT WASTE, FLOOR DRAINS OR FLOOR SINKS.
  8. INDIVIDUAL WASTE AND VENT PIPE SIZES TO PLUMBING FIXTURE WILL BE THE SAME SIZE AS INDICATED ON PLUMBING FIXTURE AND EQUIPMENT SCHEDULE FOR ROUGH-INS.
  9. INDIVIDUAL HOT AND COLD WATER CONNECTIONS TO PLUMBING FIXTURES WILL BE THE SAME SIZE AS INDICATED ON THE PLUMBING FIXTURE AND EQUIPMENT SCHEDULE FOR ROUGH-INS.
  10. FINAL CONNECTIONS TO ALL EQUIPMENT SHALL BE MADE BY THE PLUMBING CONTRACTOR.
  11. ALL VERTICAL RISERS AND STACKS SHALL BE COORDINATED WITH ELECTRICAL, REFRIGERATION AND MECHANICAL.

### SHEET KEYNOTES

- 1 CONNECT 4" SANITARY TO TRENCH DRAIN, SEE ARCHITECTURAL PLANS FOR MORE INFORMATION

|                     |
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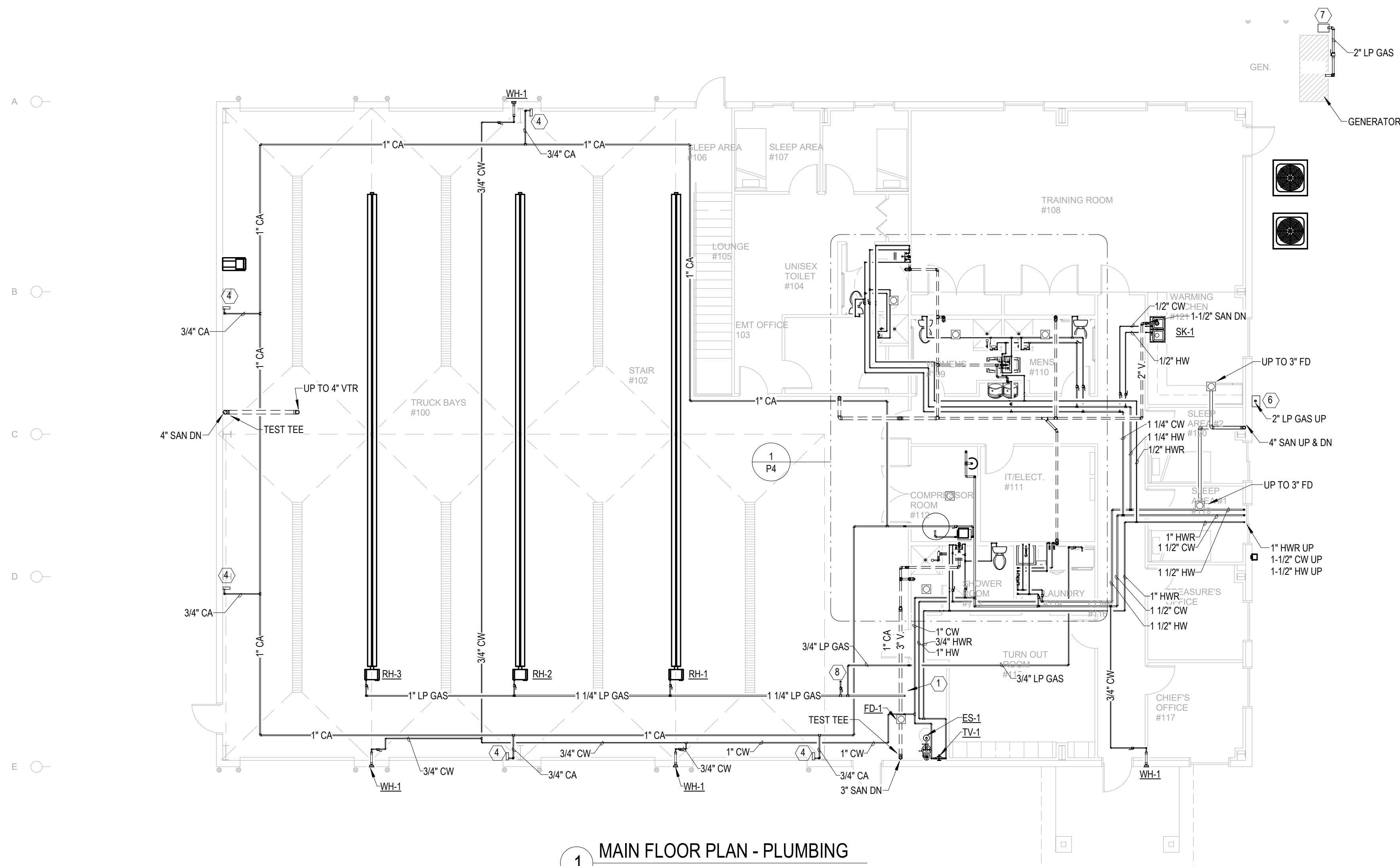
COMMERCIAL / INDUSTRIAL  
**CONSTRUCTION**

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

P2

GARFIELD TOWNSHIP  
FIRE DEPARTMENT

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1 MAIN FLOOR PLAN - PLUMBING

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

PLUMBING GENERAL NOTES:

1. PITCH ALL SANITARY WASTE AND KITCHEN WASTE PIPING AT 3" AND ABOVE AT 1/8" PER FOOT.
2. PITCH ALL SANITARY WASTE AND KITCHEN WASTE PIPING AT 2-1/2" AND BELOW AT 1/4" PER FOOT.
3. PROVIDE STOP VALVES AT ALL PLUMBING FIXTURES.
4. PROVIDE CLEANOUTS AT THE BASE OF ALL STACKS, LEADERS AND ALL CHANGE OF DIRECTIONS GREATER THAN 45 DEGREES. AT HORIZONTAL DISTANCES GREATER THAN 50 FEET ON PIPING 4 INCHES IN DIAMETER AND SMALLER, AT HORIZONTAL DISTANCES GREATER THAN 100 FEET FOR PIPING GREATER THAN 4 INCHES IN DIAMETER, AND IN CONFORMANCE WITH THE LOCAL PLUMBING CODE. SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
5. COORDINATE ROUGH-IN DIMENSIONS WITH ARCHITECTURAL DRAWINGS AND FOOD SERVICE EQUIPMENT PLANS.
6. REFER TO FOOD SERVICE EQUIPMENT PLANS FOR MORE INFORMATION ON EQUIPMENT AND PLUMBING FIXTURES.
7. ROUTE INDIRECT WASTE PIPING FROM FOOD SERVICE EQUIPMENT, LAUNDRY EQUIPMENT, AND OTHER EQUIPMENT TO INDIRECT WASTE, FLOOR DRAINS OR FLOOR SINKS.
8. INDIVIDUAL WASTE AND VENT PIPE SIZES TO PLUMBING FIXTURE WILL BE THE SAME SIZE AS INDICATED ON PLUMBING FIXTURE AND EQUIPMENT SCHEDULE FOR ROUGH-INS.
9. INDIVIDUAL HOT AND COLD WATER CONNECTIONS TO PLUMBING FIXTURES WILL BE THE SAME SIZE AS INDICATED ON THE PLUMBING FIXTURE AND EQUIPMENT SCHEDULE FOR ROUGH-INS.
10. FINAL CONNECTIONS TO ALL EQUIPMENT SHALL BE MADE BY THE PLUMBING CONTRACTOR.
11. ALL VERTICAL RISERS AND STACKS SHALL BE COORDINATED WITH ARCHITECTURAL DRAWINGS.

SHEET KEYNOTES

1. FOR CONTINUATION OF PLUMBING PIPES SEE SHEET P4
2. TRENCH DRAIN FURNISHED AND INSTALLED BY GENERAL CONTRACTOR. SEE ARCHITECTURAL DRAWINGS FOR MORE INFORMATION.
3. 3/4" LP GAS TO DRYER, PROVIDE WITH SHUT-OFF VALVE AT DRYER, MAKE FINAL CONNECTION WITH 1/2" STAINLESS STEEL FLEXIBLE GAS PIPE.
4. HOSE REEL, KLUTCH #49688 WITH 50 FEET OF 3/8" HOSE RATED AT 300 PSI.
5. LP GAS TANK - LP GAS TANK AND UNDERGROUND PIPING FROM TANK TO REGULATORS SUPPLIED AND INSTALLED BY LP GAS SUPPLIER.
6. LP GAS REGULATOR TO BUILDING (554 MBH)- SUPPLIED AND INSTALLED BY LP GAS SUPPLIER
7. LP GAS REGULATOR TO GENERATOR (978 MBH)- SUPPLIED AND INSTALLED BY LP GAS SUPPLIER
8. CAP AND VALVE 3/4" LP GAS FOR FUTURE EXTENSION

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P3

GARFIELD TOWNSHIP  
FIRE DEPARTMENT



1. PITCH ALL SANITARY WASTE AND KITCHEN WASTE PIPING AT 3" AND ABOVE AT 1/8" PER FOOT.
2. PITCH ALL SANITARY WASTE AND KITCHEN WASTE PIPING AT 3 1/2" AND BELOW AT 1/4" PER FOOT.
3. PROVIDE STOP VALVES AT ALL PLUMBING FIXTURES.
4. PROVIDE CLEANOUTS AT THE BASE OF ALL STACKS, LEADERS AND ALL CHANGE OF DIRECTIONS GREATER THAN 45 DEGREES. AT HORIZONTAL DISTANCES GREATER THAN 50 FEET ON PIPING 4 INCHES IN DIAMETER AND SMALLER. AT HORIZONTAL DISTANCES GREATER THAN 100 FEET FOR PIPING GREATER THAN 4 INCHES IN DIAMETER. AND IN CONFORMANCE WITH THE LOCAL PLUMBING CODE. SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
5. COORDINATE ROUGH-IN DIMENSIONS WITH ARCHITECTURAL DRAWINGS AND FOOD SERVICE EQUIPMENT PLANS.
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8. INDIVIDUAL WASTE AND VENT PIPE SIZES TO PLUMBING FIXTURE WILL BE THE SAME SIZE AS INDICATED ON PLUMBING FIXTURE AND EQUIPMENT SCHEDULE FOR ROUGH-INS.
9. INDIVIDUAL HOT AND COLD WATER CONNECTIONS TO PLUMBING FIXTURES WILL BE THE SAME SIZE AS INDICATED ON THE PLUMBING FIXTURE AND EQUIPMENT SCHEDULE FOR ROUGH-INS.
10. FINAL CONNECTIONS TO ALL EQUIPMENT SHALL BE MADE BY THE PLUMBING CONTRACTOR.
11. ALL VERTICAL RISERS AND STACKS SHALL BE COORDINATED WITH ARCHITECTURAL DRAWINGS.

- ① FOR CONTINUATION OF PLUMBING PIPES SEE SHEET P3
- ② INCOMING WATER SERVICE AND BLADDER BY WELL DRILLING CONTRACTOR.
- ③ 1" H & CW TO WASHER, PROVIDE WITH SHUT-OFF VALVES IN ACCESSIBLE LOCATION
- ④ AIR COMPRESSOR, SCHULZ 20 SCFM, 5 HP 115 VOLT, 1 PHASE WITH REFERENCED AIR DRYER RATED AT 20 SCFM, 115 VOLTS, 1 PHASE. ELEMENT COALESCING FOR HOUSING, HOUSING FILLED WITH DP POP UP AND AUTO (FLOAT) DRAIN VALVE. DRYER STAND, BYPASS SERVICE VALVES AROUND DRYER AND FILTER. ELECTRONIC DRAIN VALVE 115 VOLTS AND 1/2" NPT. OIL/WATER SEPARATOR RATED P TO 50 SCFM.
- ⑤ 3/4" GAS TO DRYER, PROVIDE WITH SHUT-OFF VALVE AT DRYER. MAKE FINAL CONNECTION WITH 1/2" STEEL SWEET FLEXIBLE GAS PIPE

ENGINEER'S SEAL:

GARFIELD TOWNSHIP  
FIRE DEPARTMENT  
1242 W. ERICKSON RD  
LINWOOD, MICHIGAN 48634

**COMMERCIAL/INDUSTRIAL  
CONSTRUCTION**

**JBS Contracting Inc.**

1680 GOVER PARKWAY  
MT. PLEASANT, MI 48858  
(989) 773-0770

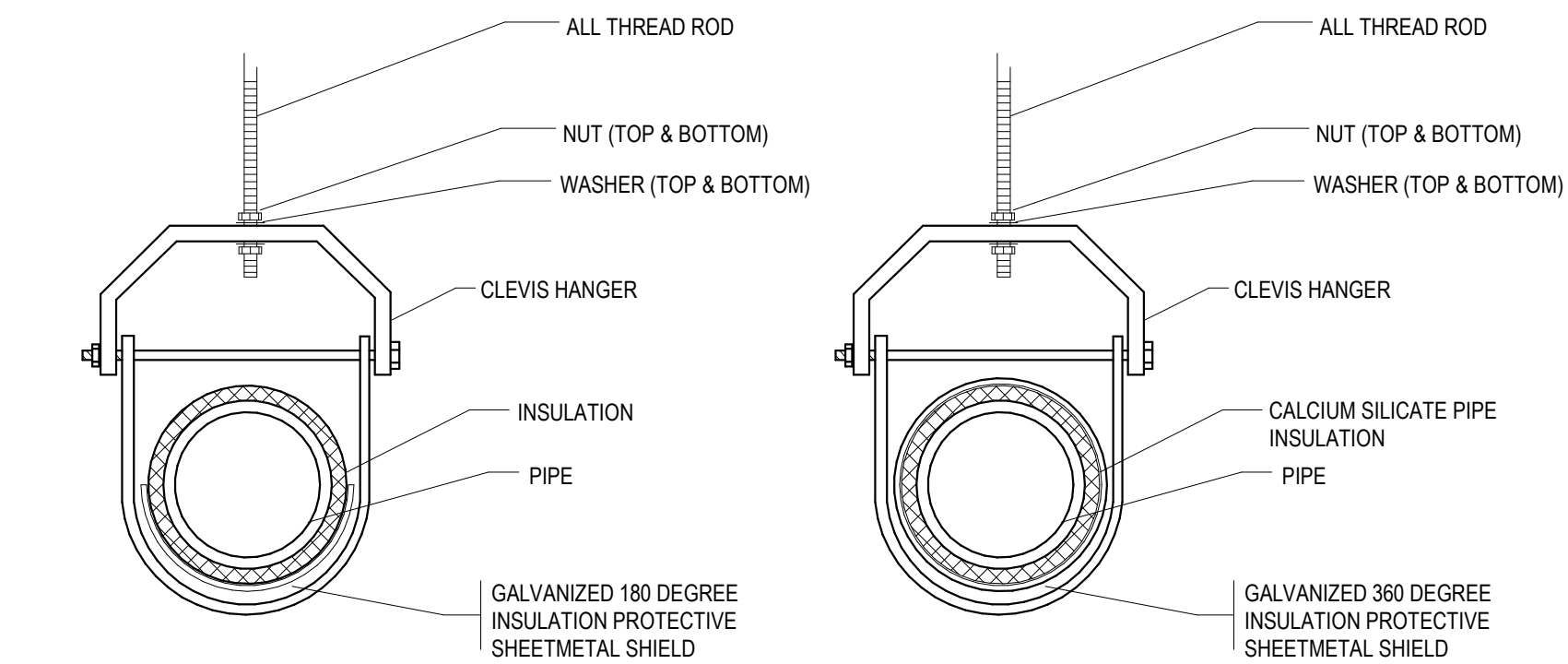
SCALE:  
As indicated

**P4**

GARFIELD TWINSP  
FIRE DEPARTMENT

[illegible]

| PLUMBING FIXTURE SCHEDULE |                                                     |                      |       |                   |     |        |       |                  |                    |         |       |       |      |                  |           |                                                                                                                                                                                       |                                                                   |                                                                                                                            |
|---------------------------|-----------------------------------------------------|----------------------|-------|-------------------|-----|--------|-------|------------------|--------------------|---------|-------|-------|------|------------------|-----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------|
| MARK                      | FIXTURE                                             | SANITARY CONN. (IN.) |       | WATER CONN. (IN.) |     |        |       | ELECTRICAL DATA  |                    |         |       |       |      |                  | FLOW DATA | TRIM                                                                                                                                                                                  | MANUFACTURE AND MODEL NUMBER                                      | REMARKS                                                                                                                    |
|                           |                                                     | W                    | VENT  | CW                | HW  | HW-140 | TW    | SENSOR ACTIVATED | 115 VOLT HARD WIRE | BATTERY | VOLTS | PHASE | AMPS | EMERG. PWR REQ'D |           |                                                                                                                                                                                       |                                                                   |                                                                                                                            |
| ES-1                      | FREE STANDING EMERGENCY SHOWER WITH EYEWASH         |                      |       |                   |     |        | 1-1/4 |                  |                    |         | 115   | 1     |      | NO               |           | FURNISH WITH EYEWASH, FLOW CONTROL VALVE, ELECTRIC LIGHT AND HORN, ANSI COMPIANT IDENTIFICATION SIGN                                                                                  | GUARDIAN MODEL G1902PCC                                           | ALL CHROME CONSTRUCTION                                                                                                    |
| EW-1                      | BI-MOUNT ADA WATER COOLER                           | 1-1/4                | 1-1/4 | 1/2               |     |        |       |                  |                    |         | 115   | 1     | 4.0  | NO               |           | FURNISH WITH WATER FILTER + ONE SPARE                                                                                                                                                 | ELKAY MODEL EZST8C                                                | LEAD FREE, GRAY VINYL CLAD CABINET                                                                                         |
| LAV-1                     | WALL HUNG SINK                                      | 1-1/4                | 1-1/4 | 1/2               | 1/2 |        |       | YES              |                    | YES     |       |       |      |                  | 0.5 GPM   | SLOAN OPTIMA EBF-650, 0.5 GPM, WITH BELOW DECK THERMOSTATIC MIXING VALVE                                                                                                              | KOHLER KINGSTON MODEL K-2007                                      | MOUNT PER ADA REQUIREMENTS, FURNISH WITH WALL SUPPORT BRACKETS, CHROME PLATED P-TRAP, SUPPLY STOPS AND ADA INSULALTON WRAP |
| MSB-1                     | MOP SINK BASIN - 24-INCH x 24-INCH                  | 3                    |       | 1/2               |     |        |       |                  |                    |         |       |       |      |                  |           | STAINLESS STEEL STRAINER W/ COMBINATION DOME STRAINER AND LINT BASKET, FAUCET CHICAGO FAUCETS MODEL 540-LD897 WITH VACUUM BREAKER, INTEGRAL CHECK, PAIL HOOK THREADED HOSE CONNECTION | STERN WILLIAMS MTB-2424                                           | 12-INCH HIGH W/ TILING FLANGE WHERE REQUIRED, 24-INCH LONG x 3-INCH WIDE MOP BRACKET, STAINLESS STEEL CAPS                 |
| SH-1                      | SHOWER                                              |                      |       | 1/2               | 1/2 |        |       |                  |                    |         |       |       |      |                  | 1.5 GPM   | W/ 36-INCH GRAB BAR, 60-INCH CHROME PLATED HOSE, VACUUM BREAKER                                                                                                                       | POWERS HYDROGUARD SERIES e700 W/ HAND HELD CHROME SHOWER ASSEMBLY | PRESSURE BALANCING, E705 CHROME PLATED FACE PLATE                                                                          |
| SK-1                      | STAINLESS STEEL COUNTER TOP MOUNTED SINK            | 1-1/2                | 1-1/2 | 1/2               | 1/2 |        |       |                  |                    |         |       |       |      |                  | 1.5 GPM   | CHICAGO FAUCET MODEL 895 WITH SWIVEL 3-1/2-INCH GOOSENECK, WRIST BLADE HANDLES, BASKET AND STRAINER, CHROME PLATED SUPPLIES AND STOPS                                                 | ELKAY LRAD 331965                                                 | 6-1/2-INCH DEEP BOWL, LEAD FREE                                                                                            |
| WC-1                      | ELONGATED TWO PIECE WATER CLOSET, PRESSURE ASSISTED | 3                    |       | 1/2               |     |        |       |                  |                    |         |       |       |      |                  | 1.6 GPF   | FURNISH WITH ELONGAGED SEAT WITH COVER AND STAINLESS STEEL CHECK HINGE                                                                                                                | ZURN MODEL Z5560                                                  |                                                                                                                            |

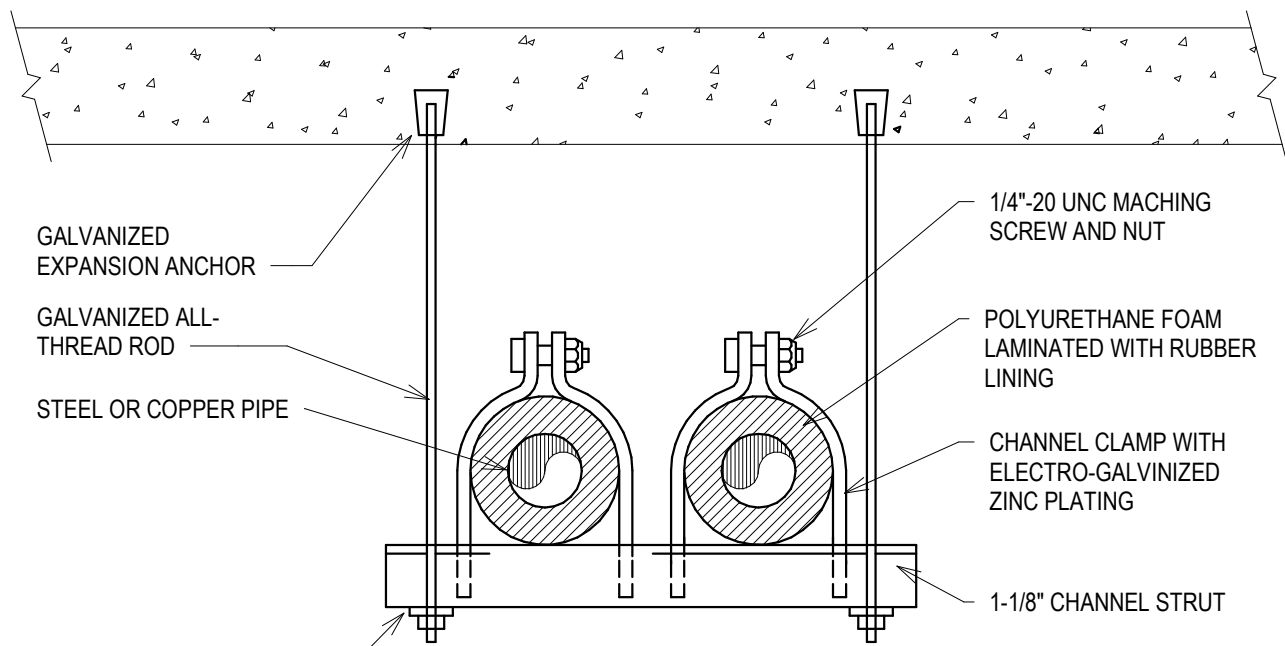


PIPING 4" AND BELOW

#### TYPICAL CLEVIS HANGER DETAILS

NOT TO SCALE

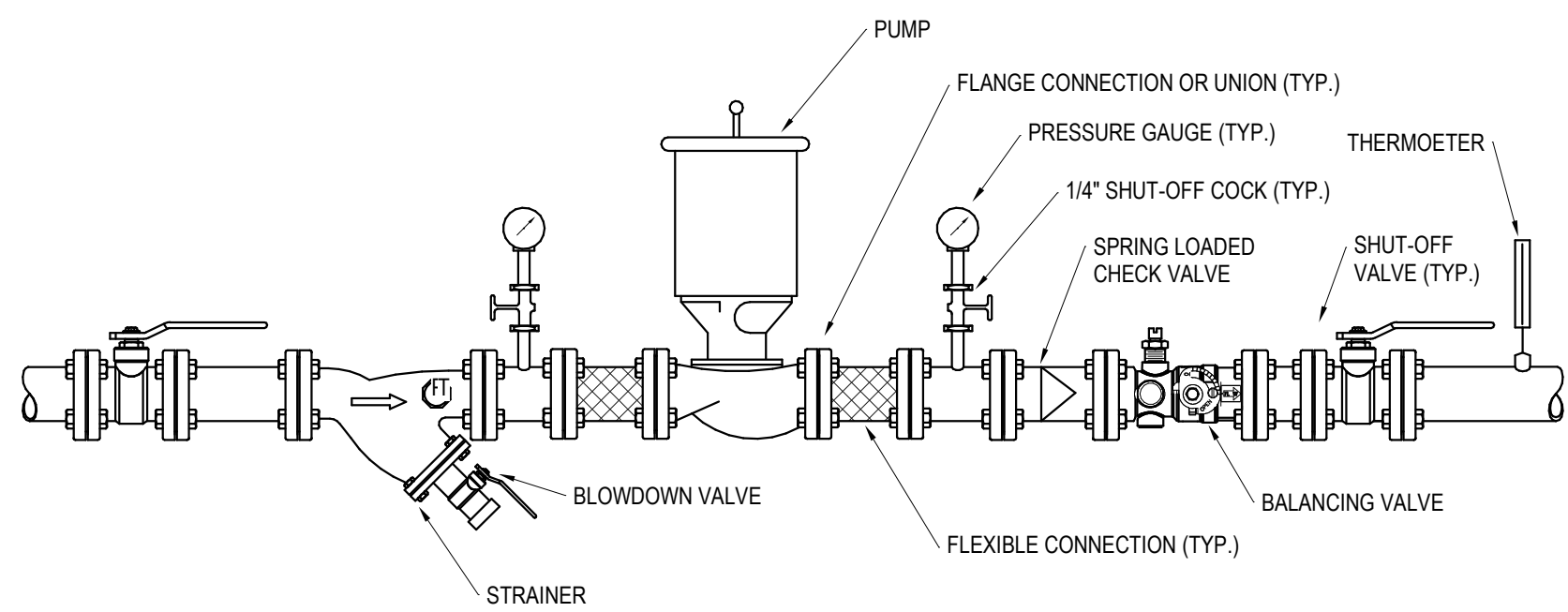
PIPING ABOVE 4"



3/8"-16 UNC GALVANIZED NUT AND WASHER

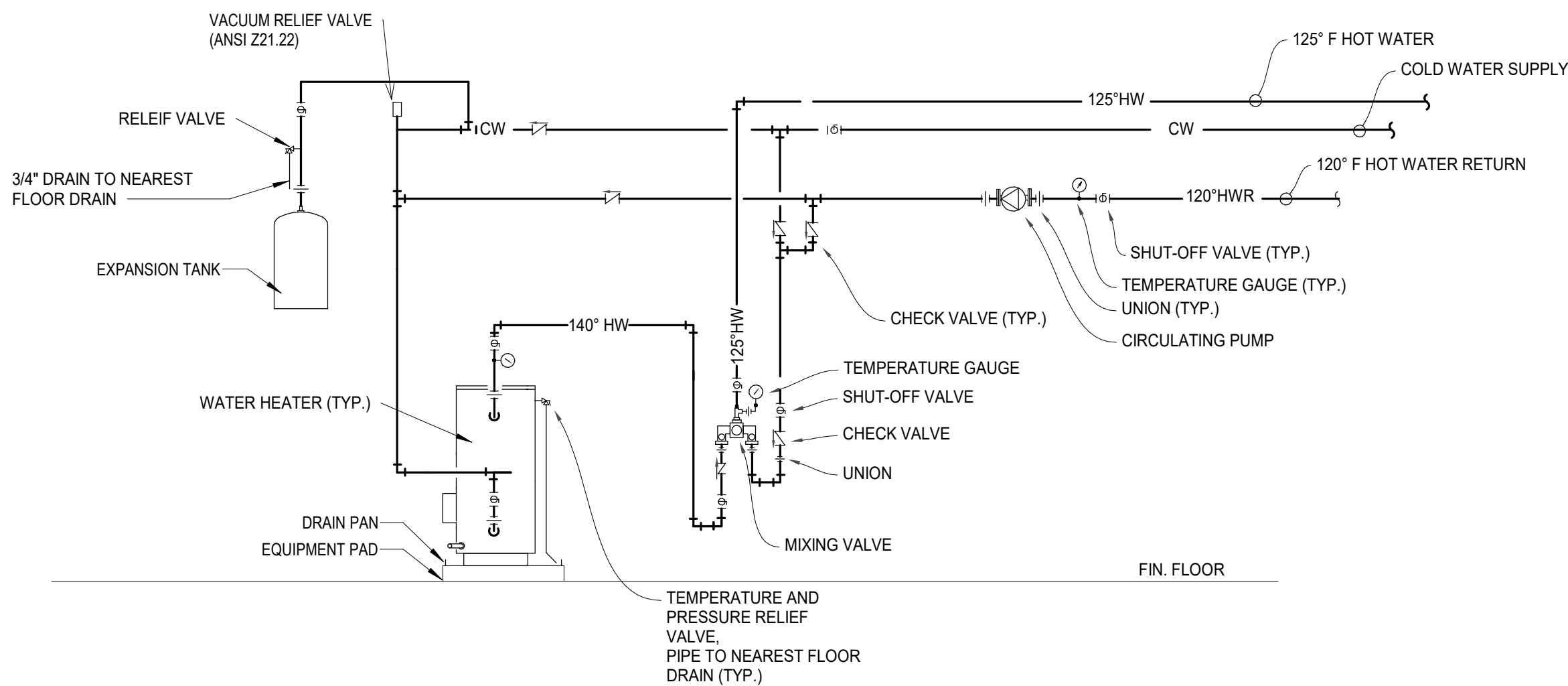
#### PIPE HANGER DETAIL

NOT TO SCALE



#### INLINE PUMP DETAIL

NOT TO SCALE



#### WATER HEATER DETAIL

NOT TO SCALE

| PLUMBING ACCESSORY SCHEDULE |          |                                               |                 |                         |          |          |          |          |          |                            |                 |                                                 |                              |                                |
|-----------------------------|----------|-----------------------------------------------|-----------------|-------------------------|----------|----------|----------|----------|----------|----------------------------|-----------------|-------------------------------------------------|------------------------------|--------------------------------|
| MARK                        | LOCATION | TYPE                                          | STANDARD NUMBER | WATER CONNECTIONS (IN.) |          |          |          |          | GAS DATA |                            | FLOW RATE (GPM) | TRIM                                            | MANUFACTURE AND MODEL NUMBER | REMARKS                        |
|                             |          |                                               |                 | SAN.                    | CW       | HW-110   | HW-140   | TW       | CFH      | PRESS. (PSIG) INLET OUTLET |                 |                                                 |                              |                                |
| BFP-1                       |          | REDUCED PRESSURE PRINCIPLE BACKFLOW PREVENTER | ASSE 1013       |                         | 1"       |          |          |          |          |                            |                 | FURNISH WITH SHUT-OFF VALVES                    | WATTS MODEL LF009            | LEAD FREE                      |
| BFP-2                       |          | REDUCED PRESSURE PRINCIPLE BACKFLOW PREVENTER | ASSE 1013       |                         |          | 1"       |          |          |          |                            |                 | FURNISH WITH SHUT-OFF VALVES                    | WATTS MODEL LF009            | LEAD FREE                      |
| TV-1                        | <varies> | <varies>                                      | <varies>        | <varies>                | <varies> | <varies> | <varies> | <varies> |          |                            | <varies>        | <varies>                                        | <varies>                     | <varies>                       |
| WB-1                        |          | RECESSED WASHER WALL BOX                      |                 | 2                       | 3/4      | 3/4      |          |          |          |                            |                 | FURNISH WITH SHUT-OFF VALVES, VACUUM BREAKERS   | ACORN 8180 SERIES            | STAINLESS STEEL BOX, LEAD FREE |
| WH-1                        | VARIOUS  | NON-FREEZE WALL HYDRANT                       |                 |                         | 3/4      |          |          |          |          |                            |                 | FURNISH WITH INTEGRAL VACUUM BREAKER, LOOSE KEY | ZURN MODEL Z1300             |                                |
| WHA-A                       | VARIOUS  | WATER HAMMER ARRESTOR                         | ASSE 1010       |                         | 3/4      |          |          |          |          |                            |                 |                                                 | WILKINS MODEL 1260XL-8       | LEAD FREE                      |
| WHA-B                       | VARIOUS  | WATER HAMMER ARRESTOR                         | ASSE 1010       |                         |          | 3/4      |          |          |          |                            |                 |                                                 | WILKINS MODEL 1260XL-8       | LEAD FREE                      |

| DRAIN/CLEANOUT SCHEDULE |          |                                  |                      |     |                   |     |                   |     |                                                                                |                              |                                                              |
|-------------------------|----------|----------------------------------|----------------------|-----|-------------------|-----|-------------------|-----|--------------------------------------------------------------------------------|------------------------------|--------------------------------------------------------------|
| MARK                    | LOCATION | Type                             | SANITARY CONNECTIONS |     | STORM CONNECTIONS |     | WATER CONNECTIONS |     | TRIM                                                                           | MANUFACTURE AND MODEL NUMBER | REMARKS                                                      |
|                         |          |                                  | DFU                  | SAN | ST                | SST |                   | CW  |                                                                                |                              |                                                              |
| FD-1                    | VARIOUS  | FLOOR DRAIN                      | 2                    | 3   |                   |     |                   | 1/2 | FURNISH WITH RECTORSEAL SURE SEAL DRAIN TRAP SEAL                              | ZURN MODEL Z415              |                                                              |
| FS-1A                   | VARIOUS  | FLOOR SINK WITH HEAVY DUTY GRATE | 2                    | 3   |                   |     |                   | 1/2 | FURNISH WITH STAINLESS STEEL FRAME WITH EXTRA HEAVY DUTY STAINLESS STEEL GRATE | ZURN MODEL ZS1901            | CAST IRON BODY WITH ACID RESISTING PORCELAIN ENAMAL INTERIOR |

| WATER HEATER SCHEDULE |                    |                       |               |                   |                |                |          |                   |                |         |                 |     |                    |                                                                             |                              |         |
|-----------------------|--------------------|-----------------------|---------------|-------------------|----------------|----------------|----------|-------------------|----------------|---------|-----------------|-----|--------------------|-----------------------------------------------------------------------------|------------------------------|---------|
| MARK                  | SYSTEM             | TYPE                  | LOCATION      | WATER HEATER DATA |                |                |          | WATER HEATER DATA | COMB. AIR DATA |         | ELECTRICAL DATA |     |                    | FURNISH WITH PRESSURE AND TEMPERATURE RELIEF VALVE, ACID NEUTRALIZATION KIT | MANUFACTURE AND MODEL NUMBER | REMARKS |
|                       |                    |                       |               | INPUT (MBH)       | EFFICIENCY (%) | RECOVERY (GPH) | MAX. GPM | STORAGE (GAL.)    | INTAKE         | EXHAUST | VOLTS           | PH. | EMERG. POWER REQ'D |                                                                             |                              |         |
| WH-1                  | DOMESTIC HOT WATER | GAS FIRED, CONDENSING | MEZZANINE 200 | 199.9             | 97             | 256            |          | 100               | 3              | 3       | 115             | 1   | NO                 |                                                                             | A.O. SMITH MODEL BTH-199     |         |

| HOT WATER CIRCULATING PUMP SCHEDULE |                           |         |          |       |                 |        |                 |                  |           |                 |       |      |     |                   |                                                           |
|-------------------------------------|---------------------------|---------|----------|-------|-----------------|--------|-----------------|------------------|-----------|-----------------|-------|------|-----|-------------------|-----------------------------------------------------------|
| MARK                                | SYSTEM                    | TYPE    | FLOW     | FLUID | FLOW DATA (GPM) |        |                 | CONN. DATA (IN.) |           | ELECTRICAL DATA |       |      |     |                   |                                                           |
|                                     |                           |         |          |       | MIN. FLOW       | DESIGN | DISCH. HD. (FT) | SUCTION          | DISCHARGE | VOLTS           | PHASE | RPM  | HP  | EMERG. PWR. REQ'D | MANUFACTURE AND MODEL NUMBER                              |
| P-1                                 | DOMESTIC HOT WATER RETURN | IN-LINE | VARIABLE | WATER | 5               | 20     | 30              | 1                | 1         | 115             |       | 3250 | 1/2 | NO                | GRUNDFOS MAGNA3 D                                         |
|                                     |                           |         |          |       |                 |        |                 |                  |           |                 |       |      |     |                   | ECM MOTOR, STAINLESS STEEL, SET POINT TEMPERATURE = 120F. |

| PLUMBING VALVE SCHEDULE |                            |                                                    |                              |           |
|-------------------------|----------------------------|----------------------------------------------------|------------------------------|-----------|
| MARK                    | TYPE                       | TRIM                                               | MANUFACTURE AND MODEL NUMBER | REMARKS   |
| BV(1.0 GPM)             | CALIBRATED BALANCING VALVE | CALIBRATED NAME PLATE WITH MEMORY STOP             | BELL & GOSSETT MODEL CB      | LEAD FREE |
| BV(5.0 GPM)             | CALIBRATED BALANCING VALVE | CALIBRATED NAME PLATE WITH MEMORY STOP             | BELL & GOSSETT MODEL CB      | LEAD FREE |
| BV-1                    | CALIBRATED BALANCING VALVE | CALIBRATED NAME PLATE WITH MEMORY STOP             | BELL & GOSSETT MODEL CB      | LEAD FREE |
| V-1                     | 2 PIECE BALL VALVE         | PROVIDE 2-INCH EXTENSION HANDLES IN INSULATED PIPE | APPLO MODEL 77FLF SERIES     | LEAD FREE |

|                     |
|---------------------|
| JOB NUMBER:         |
| DRAWING: FLOOR PLAN |
| DRAWN BY: DKG       |
| REVIEWED BY:        |
| FIELD SUPERVISOR:   |
| DATE: 7-22-2026     |

ENGINEER'S SEAL:

GARFIELD TOWNSHIP  
FIRE DEPARTMENT  
1242 W. ERICKSON RD  
LINWOOD, MICHIGAN 48634

JBS Contracting Inc.  
1680 GOVER PARKWAY  
MT. PLEASANT, MI 48858  
(989) 773-0770  
COMMERCIAL / INDUSTRIAL CONSTRUCTION

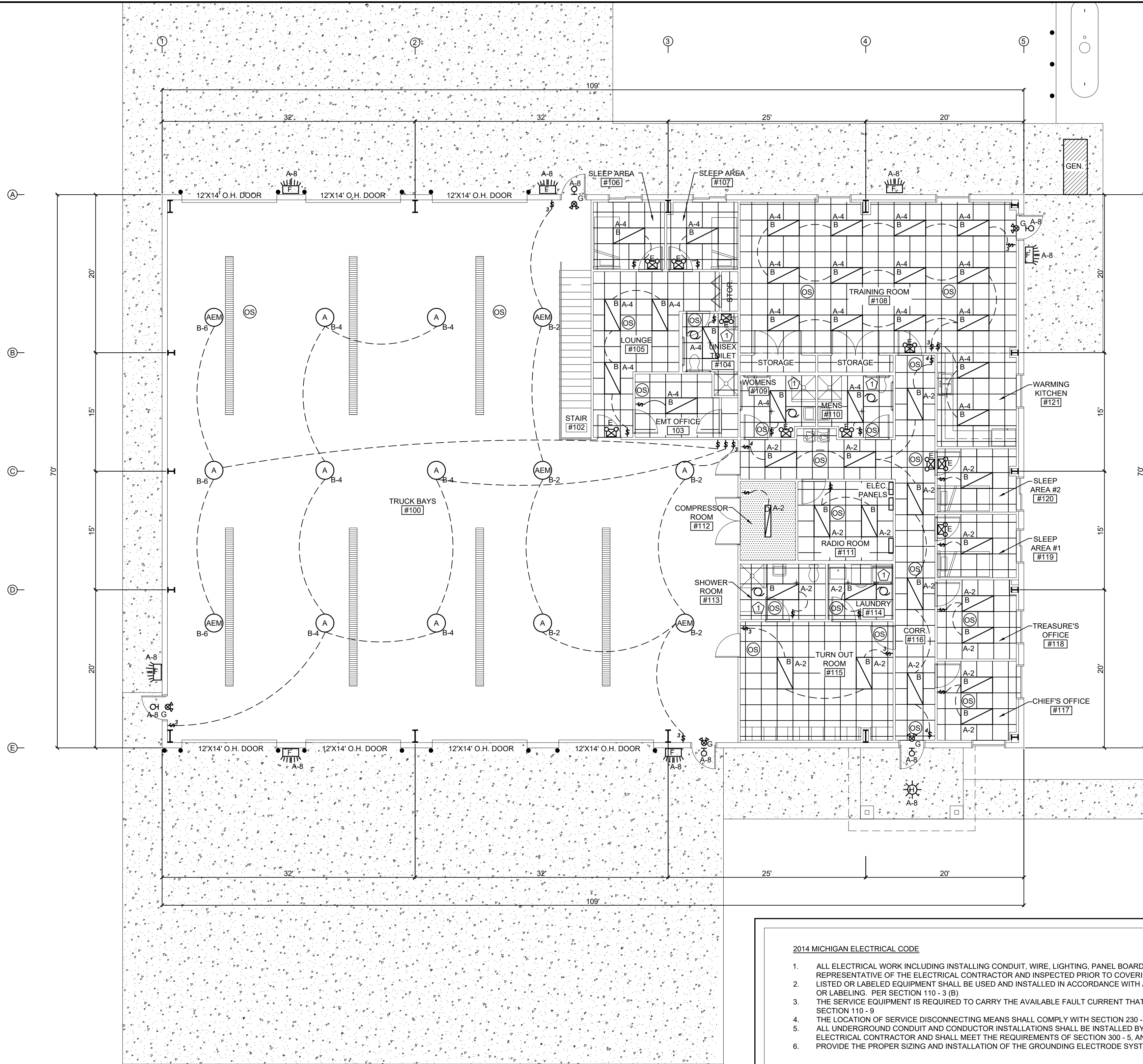
SCALE:  
1/8" = 1'-0"

P5

GARFIELD TOWNSHIP  
FIRE DEPARTMENT

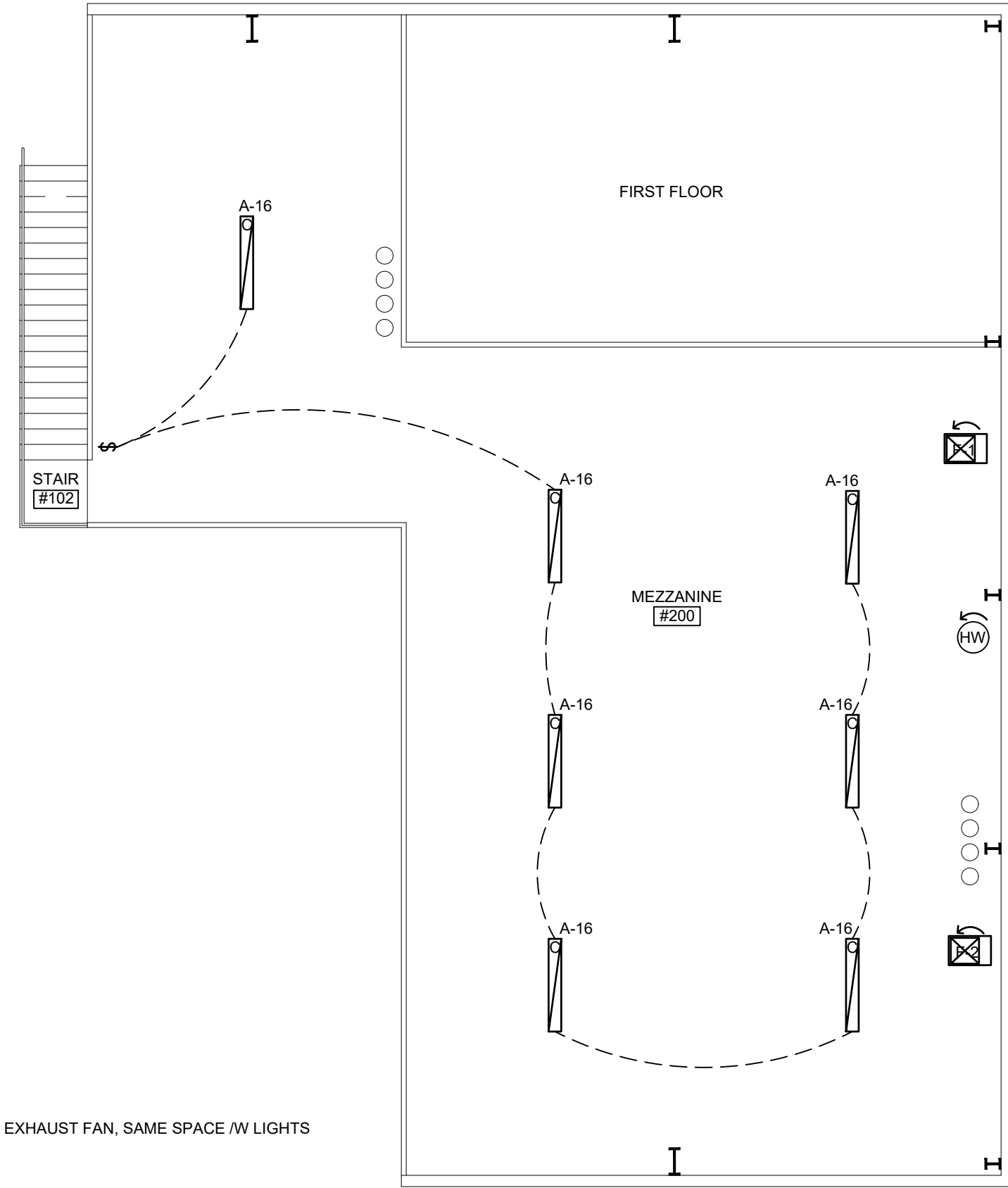
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|           |       |         |
|           |       |         |





KEYNOTES:  
① CURRENT EXHAUST FAN, SAME SPACE /W LIGHTS

ALTERNATE #1:  
\*FIRE ALARM



N  
W E S  
MEZZANINE LIGHTING PLAN  
SCALE: 1/8" = 1'-0"

2014 MICHIGAN ELECTRICAL CODE

1. ALL ELECTRICAL WORK INCLUDING INSTALLING CONDUIT, WIRE, LIGHTING, PANEL BOARDS ETC. SHALL BE INSTALLED BY A LICENSED REPRESENTATIVE OF THE ELECTRICAL CONTRACTOR AND INSPECTED PRIOR TO COVERING.
2. LISTED OR LABELED EQUIPMENT SHALL BE USED AND INSTALLED IN ACCORDANCE WITH ANY INSTRUCTIONS INCLUDED IN THE LISTING OR LABELING. PER SECTION 110 - 3 (B)
3. THE SERVICE EQUIPMENT IS REQUIRED TO CARRY THE AVAILABLE FAULT CURRENT THAT IS PROVIDED BY THE UTILITY COMPANY. PER SECTION 110 - 9
4. THE LOCATION OF SERVICE DISCONNECTING MEANS SHALL COMPLY WITH SECTION 230 - 70
5. ALL UNDERGROUND CONDUIT AND CONDUCTOR INSTALLATIONS SHALL BE INSTALLED BY A LICENSED REPRESENTATIVE OF THE ELECTRICAL CONTRACTOR AND SHALL MEET THE REQUIREMENTS OF SECTION 300 - 5, AND APPROVED PRIOR TO COVERING.
6. PROVIDE THE PROPER SIZING AND INSTALLATION OF THE GROUNDING ELECTRODE SYSTEM PER CODE.

ELECTRICAL DIVISION (16000)

- 01.00 ELECTRICAL INSTALLATION IS TO MEET ALL STATE AND LOCAL CODES AS ENFORCED BY THE LOCAL GOVERNING AUTHORITY. ELECTRICAL PERMITS REQ'D TO COMPLETE THE JOB ARE INCLUDED.
- 02.00 FURNISH & INSTALL ALL NECESSARY WIRING, SERVICE PANELS DESIGNED TO ADEQUATELY SUPPLY ALL FIXTURES INSTALLED. THE FOLLOWING FIXTURES ARE TO BE INSTALLED:

| SYM | DESCRIPTION                             |
|-----|-----------------------------------------|
|     | DUPLEX RECEPTACLE                       |
|     | G.F.I. DUPLEX RECEPTACLE                |
|     | WP (WEATHERPROOF GFI) DUPLEX RECEPTACLE |
|     | VOICE/DATA OUTLET                       |
|     | T.V. OUTLET                             |
|     | 20A SINGLE POLE SWITCHING               |
|     | 3 WAY SWITCH                            |
|     | 4 WAY SWITCH                            |
|     | 5 WAY SWITCH                            |
|     | OCCUPANCY SENSOR                        |

- A LED HIGH BAYS. 20,000 LUMENS, 150 WATT
  - AEM LED HIGH BAYS. 20,000 LUMENS, 150 WATT EMERG. RATED
  - B 24-FPL1-LED-2400L-DIM10-MVOLT-40K-85 - LED TROFFERS - RECESSED
  - C 0C6-LED-5000L-DIM10-MVOLT-40K-85 - CHAIN HUNG
  - D CLX L48 5,000 LM 40K MVOLT G210 - SURFACE MOUNT
  - E SCLD2RWRC-LED EXIT/ EMERG. LIGHT
  - F WALL PACK - OWP-FC-301-LED-6000-MVOLT-40K-8Z (EXT. LIGHTS CIRCUIT TO PHOTO CONTROLS)
  - G SURE-LITES #APXH7R2, #APWR2BK CKT SAME SPACE NON SWITCH LTG CKT
  - H GPLD-26-BB-N
  - I WIRE BATHROOM EXHAUST FAN
  - J WIRE O.H. DOOR
- MANUFACTURERS TO BE ELITE, LITHONIA, COOPER/ METALUX OR APPROVED EQUAL

- 03.00 THE ELECTRICIAN WILL INSTALL 3/4" PLYWOOD BACKER FOR THE SERVICE PANEL AND ANY SPECIALTY BACKERS REQUIRED FOR THE INSTALLATION OF THE ELECTRICAL.
- 04.00 PROVIDE METAL CONDUIT FOR 24 VOLT WIRING AT ALL OVERHEAD DOORS.

JOB NUMBER:  
DRAWING: LIGHTING PLAN  
DRAWN BY: DJC  
REVIEWED BY:  
FIELD SUPERVISOR:  
DATE: 9-10-2026

GARFIELD TOWNSHIP  
FIRE DEPARTMENT  
1242 W. ERICKSON RD.  
LINWOOD, MICHIGAN 48634

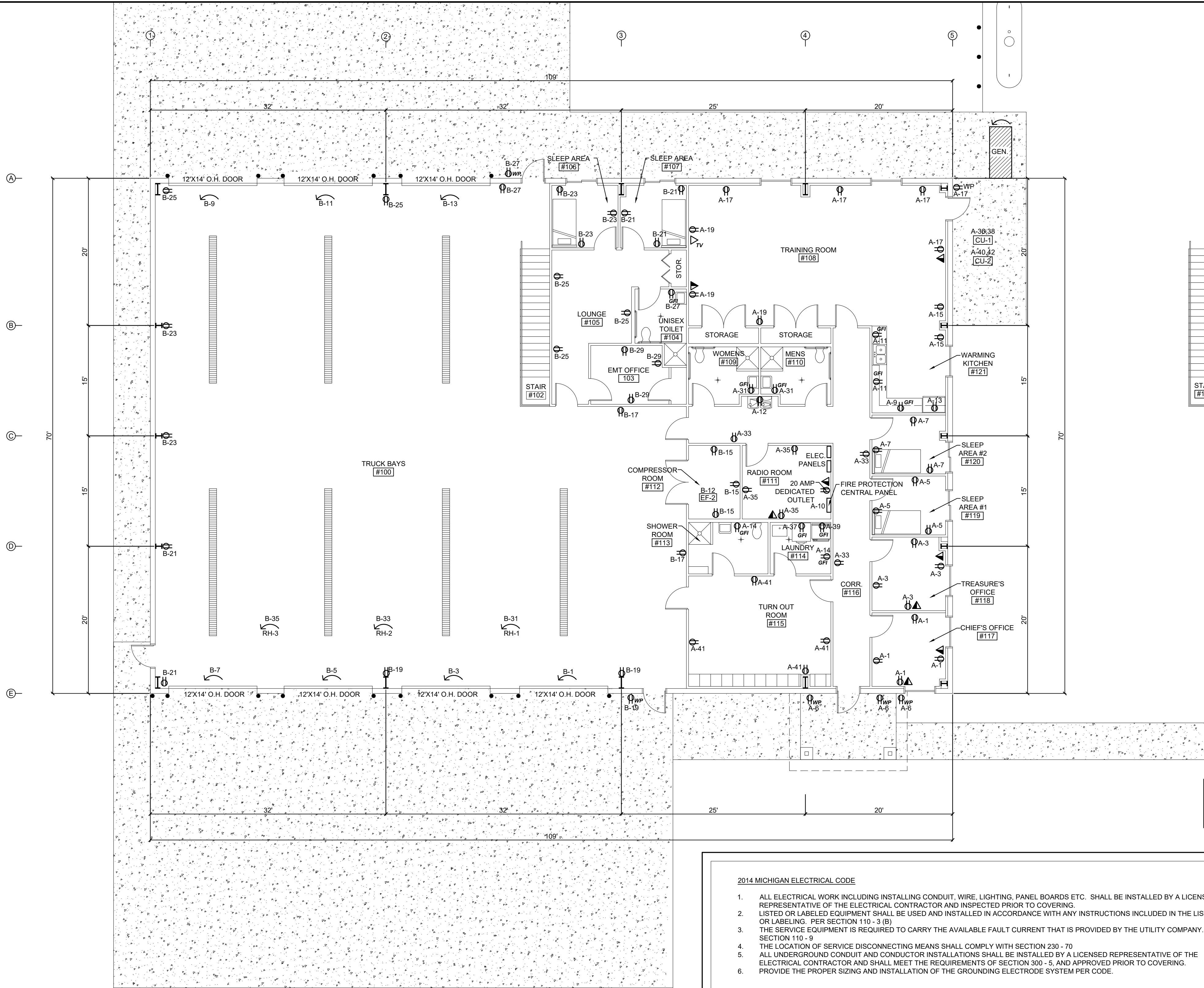
COMMERCIAL/INDUSTRIAL  
CONSTRUCTION

JBS Contracting Inc.  
1680 COVER PARKWAY  
MT. PLEASANT, MI 48858  
(989) 775-0770

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

E1  
LIGHTING PLAN

| REVISIONS |       |         |
|-----------|-------|---------|
| TAG:      | DATE: | CHANGE: |
|           |       |         |
|           |       |         |
|           |       |         |



**ELECTRICAL PLAN**  
SCALE: 1/8" = 1'-0"

ALTERNATE #1:  
\*FIRE ALARM

**2014 MICHIGAN ELECTRICAL CODE**

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- PROVIDE THE PROPER SIZING AND INSTALLATION OF THE GROUNDING ELECTRODE SYSTEM PER CODE.

**ELECTRICAL DIVISION (18000)**

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| ⊕ <sub>GFI</sub> | G.F.I. DUPLEX RECEPTACLE                 |
| ⊕ <sub>WP</sub>  | WP (WEATHERPROOF GFCI) DUPLEX RECEPTACLE |
| ▲                | VOICE/DATA OUTLET                        |
| △ <sub>TV</sub>  | T.V. OUTLET                              |
| ⌚                | 20A SINGLE POLE SWITCHING                |
| ⌚ <sup>3</sup>   | 3 WAY SWITCH                             |
| ⌚ <sup>4</sup>   | 4 WAY SWITCH                             |
| ⌚ <sup>5</sup>   | 5 WAY SWITCH                             |
| Ⓞ                | OCCUPANCY SENSOR                         |

**MEZZANINE ELECTRICAL PLAN**  
SCALE: 1/8" = 1'-0"

- LED HIGH BAYS. 20,000 LUMENS. 150 WATT
- LED HIGH BAYS. 20,000 LUMENS. 150 WATT EMERG. RATED
- 24-FPL1-LED-2400L-DIM10-MVOLT-40K-85 - LED TROFFERS - RECESSED
- 006-LED-5000L-DIM10-MVOLT-40K-85 - CHAIN HUNG
- CLX L48 5,000 LM 40K MVOLT GZ10 - SURFACE MOUNT
- SCLD2RWRC-LED EXIT/ EMERG. LIGHT
- WALL PACK - OWP-FC-301-LED-6000-4MVOLT-40K-BZ (EXT. LIGHTS CIRCUIT TO PHOTO CONTROLS)
- SURE-LITES #APXH7R2, #APWR2BK CKT SAME SPACE NON SWITCH LTG CKT
- GPLED-26-BB-N
- WIRE BATHROOM EXHAUST FAN
- WIRE O.H. DOOR
- MANUFACTURERS TO BE ELITE, LITHONIA, COOPER/ METALUX OR APPROVED EQUAL

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- 04.00 PROVIDE METAL CONDUIT FOR 24 VOLT WIRING AT ALL OVERHEAD DOORS.

| REVISIONS |      |        |
|-----------|------|--------|
| TAG       | DATE | CHANGE |
|           |      |        |
|           |      |        |
|           |      |        |

|                          |
|--------------------------|
| JOB NUMBER:              |
| DRAWING: ELECTRICAL PLAN |
| DRAWN BY: DJC            |
| REVIEWED BY:             |
| FIELD SUPERVISOR:        |
| DATE: 9-10-2026          |

GARFIELD TOWNSHIP  
FIRE DEPARTMENT  
1242 W. ERICKSON RD.  
LINWOOD, MICHIGAN 48634

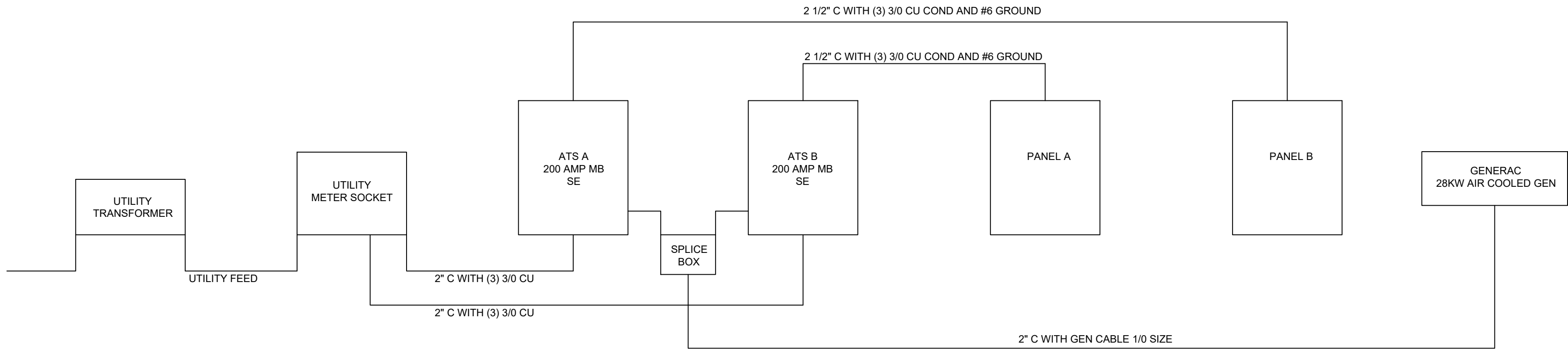
**JBS Contracting Inc.**  
1680 COVER PARKWAY  
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(989) 775-0770  
COMMERCIAL/INDUSTRIAL  
CONSTRUCTION

SCALE:  
1/8" = 1'-0'  
**E2**  
ELECTRICAL PLAN



| 120/240Volt Single Phase<br>200Amp Main Breaker Garfield<br>Twp |                              |    |        |        |        |        |            |                           |        |        |        |
|-----------------------------------------------------------------|------------------------------|----|--------|--------|--------|--------|------------|---------------------------|--------|--------|--------|
| Panel A                                                         |                              |    |        |        |        |        |            |                           |        |        |        |
| Ckt No                                                          | LOAD SERVED                  | CB | VA 'A' | VA 'B' | VA 'A' | VA 'B' | CB         | LOAD SERVED               | Ckt No | VA 'A' | VA 'B' |
| 1                                                               | RECEPT-CHIEF OFFICE          | 20 | 720    |        | 920    |        | 20         | LTS-SOUTH AREA OFFICE     | 2      |        |        |
| 3                                                               | RECEPT-TREASURER OFFICE      | 20 | 720    |        | 770    |        | 20         | LTS-NORTH AREA OFFICE     | 4      |        |        |
| 5                                                               | RECEPT-SLEEP #1              | 20 | 540    |        | 360    |        | 20         | RECEPT-SOFFIT FRONT       | 6      |        |        |
| 7                                                               | RECEPT-SLEEP #2              | 20 |        | 540    |        | 1140   | 20         | LTS-EXTERIOR              | 8      |        |        |
| 9                                                               | ABOVE COUNTER RECEPT KITCHEN | 20 | 180    |        | 180    |        | 20         | DED OUTLET-RADIO RM 111   | 10     |        |        |
| 11                                                              | ABOVE COUNTER RECEPT KITCHEN | 20 |        | 360    |        | 180    | 20         | DRINKING FOUNTAIN         | 12     |        |        |
| 13                                                              | RECEPT-FRIDGE KITCHEN        | 20 | 600    |        | 360    |        | 20         | RECEPTS-LAUNDRY/SHOWER RM | 14     |        |        |
| 15                                                              | RECEPT-TRAINING              | 20 |        | 540    |        | 350    | 20         | LIGHTS-MEZZ               | 16     |        |        |
| 17                                                              | RECEPT-TRAINING              | 20 | 540    |        |        |        |            |                           | 18     |        |        |
| 19                                                              | RECEPT-TRAINING              | 20 |        | 540    |        |        |            |                           | 20     |        |        |
| 21                                                              | RECEPT-SLEEP 107             | 20 | 540    |        |        |        |            |                           | 22     |        |        |
| 23                                                              | RECEPT-SLEEP 106             | 20 |        | 540    |        |        |            |                           | 24     |        |        |
| 25                                                              | RECEPT-LOUNGE 105            | 20 | 540    |        |        |        |            |                           | 26     |        |        |
| 27                                                              | RECEPT-TOILET 104            | 20 |        | 180    |        | 180    | 20         | RECEPT-WH FAN             | 28     |        |        |
| 29                                                              | RECEPT-EMS OFFICE            | 20 | 540    |        | 720    |        | 20         | RECEPT-MEZZ               | 30     |        |        |
| 31                                                              | RECEPT-WOMEN AND MEN TLT     | 20 |        | 360    |        | 900    | 20         | FU-1 FURNACE              | 32     |        |        |
| 33                                                              | RECEPT-CORRIDOR              | 20 | 540    |        | 900    |        | 20         | FU-2 FURNACE              | 34     |        |        |
| 35                                                              | RECEPT-RADIO RM              | 20 |        | 540    |        | 2760   | 40         |                           | 36     |        |        |
| 37                                                              | *RECEPT-LAUNDRY WASHER       | 20 | 750    |        | 2760   |        | 2P         | *CU-1 AC UNIT             | 38     |        |        |
| 39                                                              | *RECEPT-LAUNDRY DRYER        | 20 |        | 750    |        | 1920   | 30         |                           | 40     |        |        |
| 41                                                              | RECEPT-TURN OUT RM           | 20 | 720    |        | 1920   |        | 2P         | *CU-2 AC UNIT             | 42     |        |        |
|                                                                 | TOTAL VA                     |    | 5490   | 5070   |        | 6200   | 8200       | TOTAL VA                  |        |        |        |
|                                                                 | TOTAL 'A'                    |    | 11690  |        |        |        |            | *Load Shed                |        |        |        |
|                                                                 | TOTAL 'B'                    |    | 13270  |        |        |        |            | CU-1 Priority #1          |        |        |        |
|                                                                 | TOTAL VA                     |    | 24960  |        |        | 104    | TOTAL AMPS | CU-2 Priority #2          |        |        |        |

| 120/240Volt Single Phase<br>200Amp Main Breaker Garfield<br>Twp |                  |    |        |        |        |            |      |               |        |        |        |
|-----------------------------------------------------------------|------------------|----|--------|--------|--------|------------|------|---------------|--------|--------|--------|
| Panel B                                                         |                  |    |        |        |        |            |      |               |        |        |        |
| Ckt No                                                          | LOAD SERVED      | CB | VA 'A' | VA 'B' | VA 'A' | VA 'B'     | CB   | LOAD SERVED   | Ckt No | VA 'A' | VA 'B' |
| 1                                                               | POWER OH DOOR    | 20 | 500    |        | 750    |            | 20   | LTS-TRUCK BAY | 2      |        |        |
| 3                                                               | POWER OH DOOR    | 20 |        | 500    |        | 900        | 20   | LTS-TRUCK BAY | 4      |        |        |
| 5                                                               | POWER OH DOOR    | 20 | 500    |        | 450    |            | 20   | LTS-TRUCK BAY | 6      |        |        |
| 7                                                               | POWER OH DOOR    | 20 |        | 500    |        |            |      |               | 8      |        |        |
| 9                                                               | POWER OH DOOR    | 20 | 500    |        | 500    |            | 20   | EF-1          | 10     |        |        |
| 11                                                              | POWER OH DOOR    | 20 |        | 500    |        | 500        | 20   | EF-2          | 12     |        |        |
| 13                                                              | POWER OH DOOR    | 20 | 500    |        |        |            |      |               | 14     |        |        |
| 15                                                              | RECEPT-COMP ROOM | 20 |        | 540    |        |            |      |               | 16     |        |        |
| 17                                                              | RECEPT-TRUCK BAY | 20 | 360    |        |        |            |      |               | 18     |        |        |
| 19                                                              | RECEPT-TRUCK BAY | 20 |        | 360    |        |            |      |               | 20     |        |        |
| 21                                                              | RECEPT-TRUCK BAY | 20 | 360    |        |        |            |      |               | 22     |        |        |
| 23                                                              | RECEPT-TRUCK BAY | 20 |        | 360    |        |            |      |               | 24     |        |        |
| 25                                                              | RECEPT-TRUCK BAY | 20 | 360    |        |        |            |      |               | 26     |        |        |
| 27                                                              | RECEPT-TRUCK BAY | 20 |        | 180    |        |            |      |               | 28     |        |        |
| 29                                                              |                  |    |        |        |        |            |      |               | 30     |        |        |
| 31                                                              | RH-1             | 20 |        | 250    |        |            |      |               | 32     |        |        |
| 33                                                              | RH-2             | 20 |        | 250    |        |            |      |               | 34     |        |        |
| 35                                                              | RH-3             | 20 |        | 250    |        |            |      |               | 36     |        |        |
| 37                                                              |                  |    |        |        |        |            |      |               | 38     |        |        |
| 39                                                              |                  |    |        |        |        |            |      |               | 40     |        |        |
| 41                                                              |                  |    |        |        |        |            |      |               | 42     |        |        |
|                                                                 | TOTAL VA         |    | 3330   | 3440   |        | 1700       | 1400 | TOTAL VA      |        |        |        |
|                                                                 | TOTAL 'A'        |    | 5030   |        |        |            |      |               |        |        |        |
|                                                                 | TOTAL 'B'        |    | 4840   |        |        |            |      |               |        |        |        |
|                                                                 | TOTAL VA         |    | 9870   |        | 41.13  | TOTAL AMPS |      |               |        |        |        |



\* ELECTRIC RISER NOT TO SCALE

NOTE:  
UPPER BUILDING STEEL GROUND ROD TO GROUND BAR.  
RUN 1/0 CU GROUND FROM BAR TO EACH ATS.

ONE LINE DIAGRAM

| REVISIONS |       |         |
|-----------|-------|---------|
| TAG:      | DATE: | CHANGE: |
|           |       |         |
|           |       |         |
|           |       |         |

|                           |
|---------------------------|
| JOB NUMBER:               |
| DRAWING: ELECTRICAL PANEL |
| DRAWN BY: DKG             |
| REVIEWED BY:              |
| FIELD SUPERVISOR:         |
| DATE: 7-22-2026           |

GARFIELD TOWNSHIP  
FIRE DEPARTMENT  
1242 W. ERICKSON RD.  
LINWOOD, MICHIGAN 48634

**JBS Contracting Inc.**  
1680 COVER PARKWAY  
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(989) 773-0770  
COMMERCIAL/INDUSTRIAL  
CONSTRUCTION

SCALE:  
VARIES

E3  
ELECTRICAL PANEL