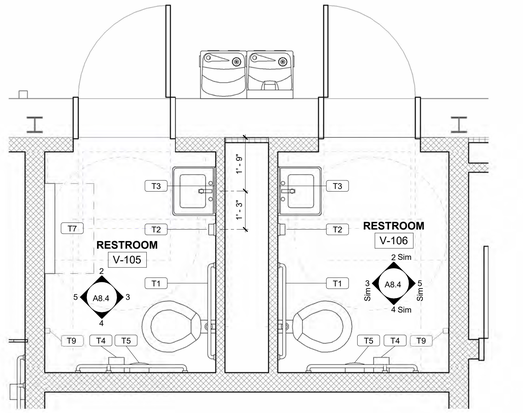
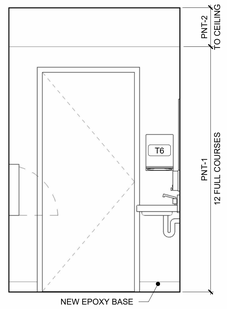
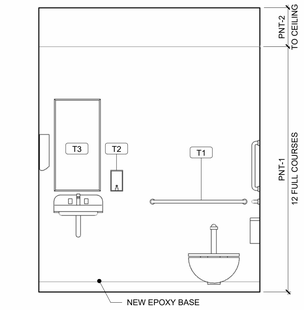



**1 ENLARGED RESTROOM PLAN**
A8.4 1/2" = 1'-0"

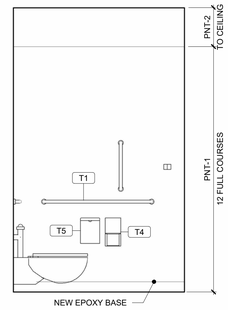


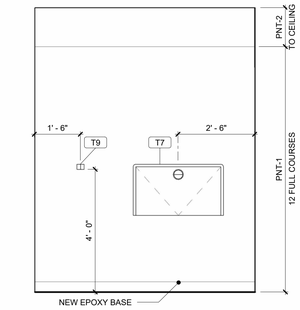

**2 INTERIOR ELEVATION**
A8.4 1/2" = 1'-0" **V-105 RESTROOM**



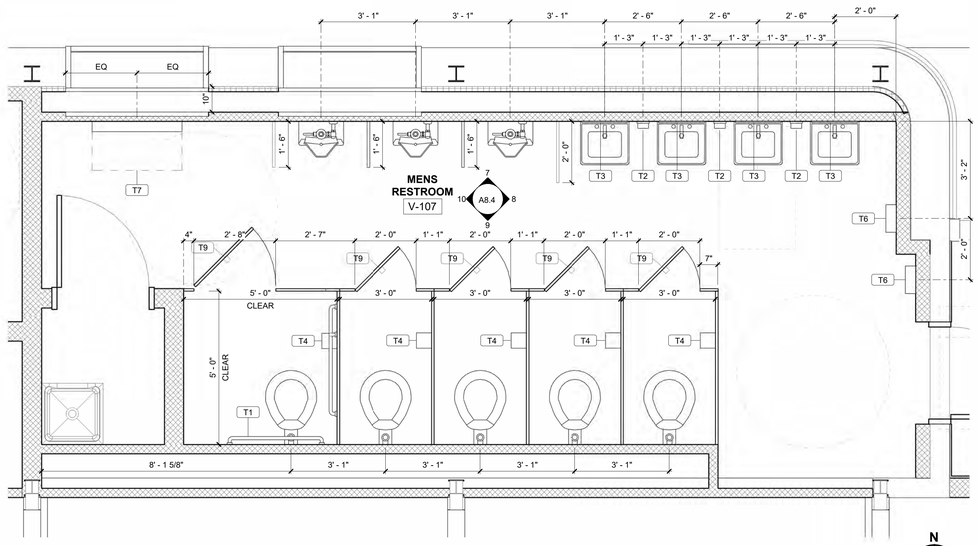

**3 INTERIOR ELEVATION**
A8.4 1/2" = 1'-0" **V-105 RESTROOM**



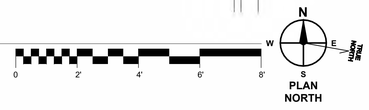

**4 INTERIOR ELEVATION**
A8.4 1/2" = 1'-0" **V-105 RESTROOM**

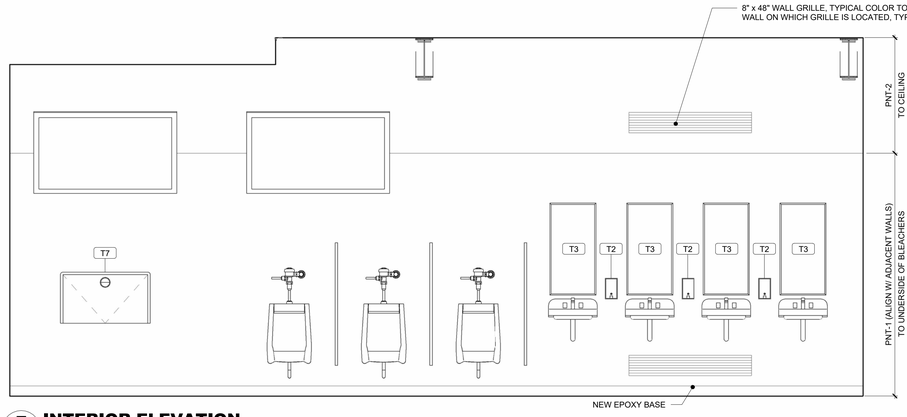



**5 INTERIOR ELEVATION**
A8.4 1/2" = 1'-0" **V-105 RESTROOM**

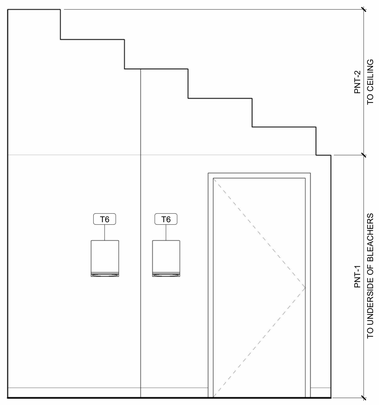



**6 ENLARGED RESTROOM PLAN**
A8.4 1/2" = 1'-0"

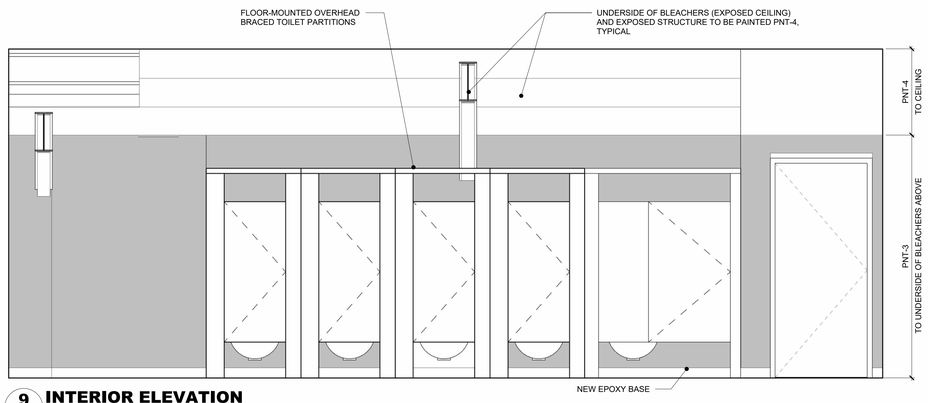


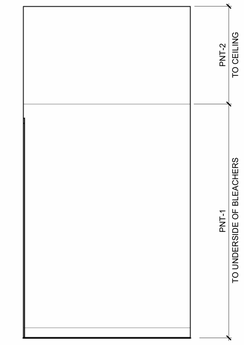

**7 INTERIOR ELEVATION**
A8.4 1/2" = 1'-0" **V-107 MENS RESTROOM**




**8 INTERIOR ELEVATION**
A8.4 1/2" = 1'-0" **V-107 MENS RESTROOM**




**9 INTERIOR ELEVATION**
A8.4 1/2" = 1'-0" **V-107 MENS RESTROOM**




**10 INTERIOR ELEVATION**
A8.4 1/2" = 1'-0" **V-107 MENS RESTROOM**

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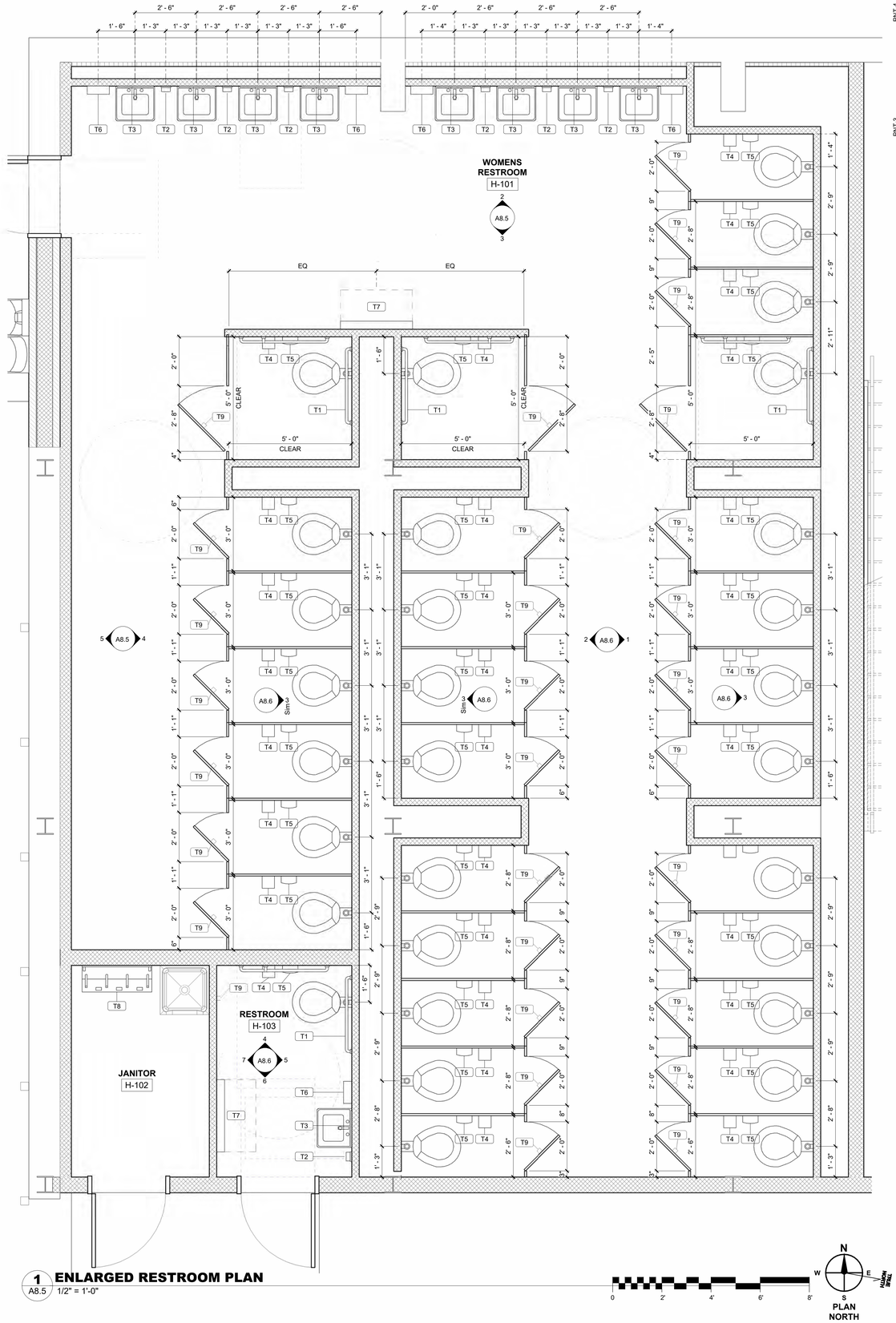
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DESCRIPTION: BID DOCUMENTS

PROJ # : 24-SDL-03 DRAWN BY : Author

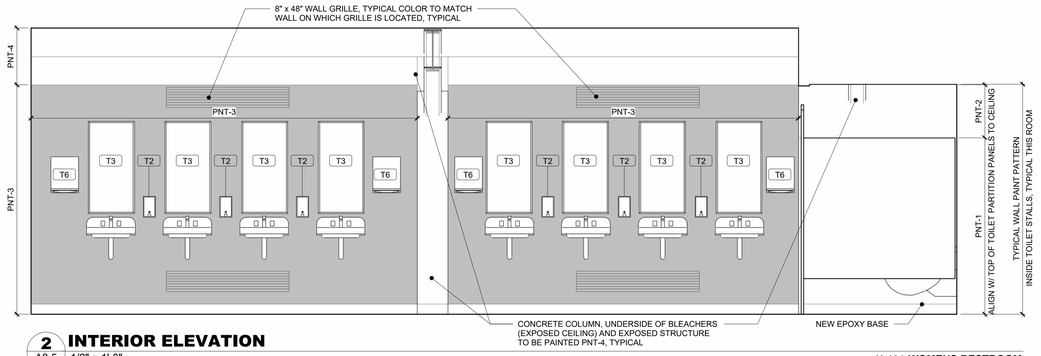
SHEET TITLE:
**ENLARGED PLANS & INTERIOR ELEVATIONS**

SHEET NUMBER:
**A8.4**

**BID DOCUMENTS**

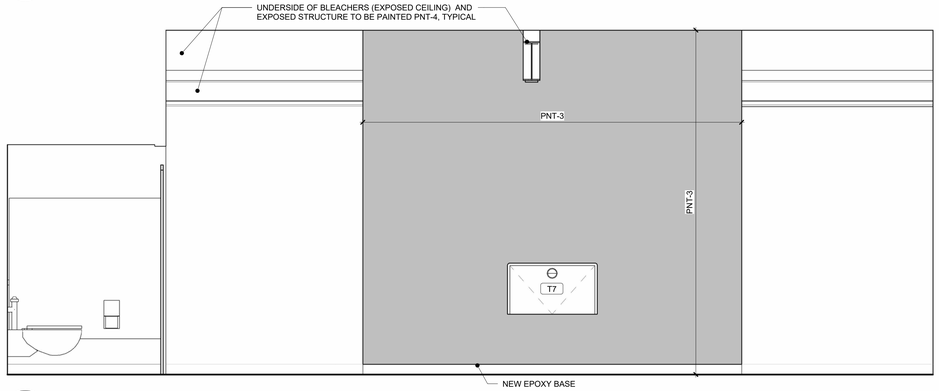



## 1 ENLARGED RESTROOM PLAN
A8.5 1/2" = 1'-0"



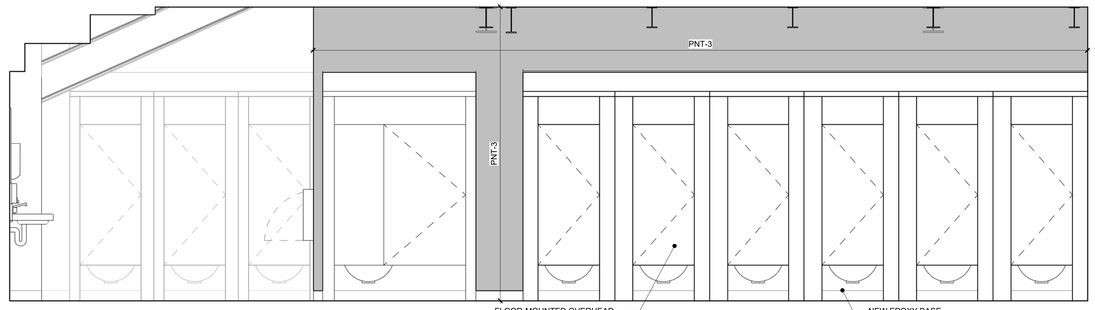

## 2 INTERIOR ELEVATION
A8.5 1/2" = 1'-0"

H-101 WOMENS RESTROOM



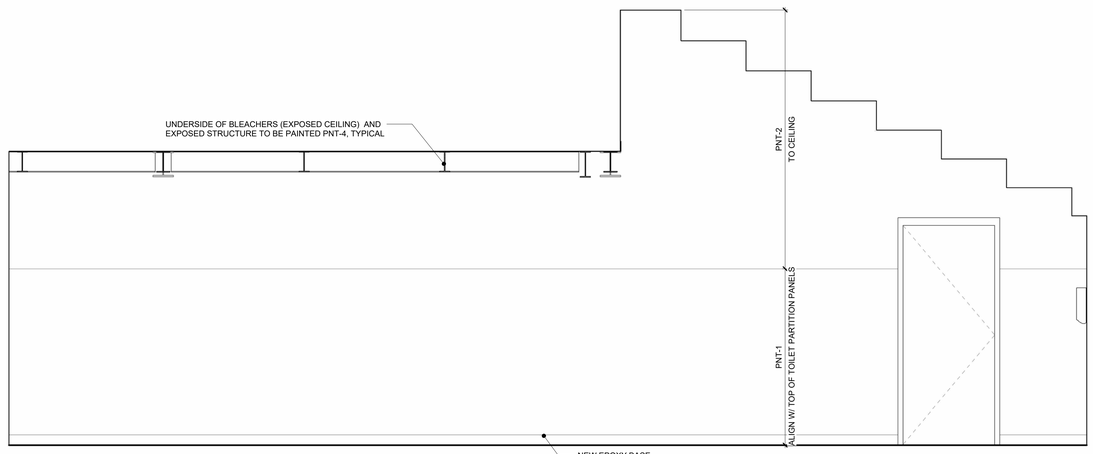

## 3 INTERIOR ELEVATION
A8.5 1/2" = 1'-0"

H-101 WOMENS RESTROOM




## 4 INTERIOR ELEVATION
A8.5 1/2" = 1'-0"

H-101 WOMENS RESTROOM




## 5 INTERIOR ELEVATION
A8.5 1/2" = 1'-0"

H-101 WOMENS RESTROOM

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ISSUE DATES
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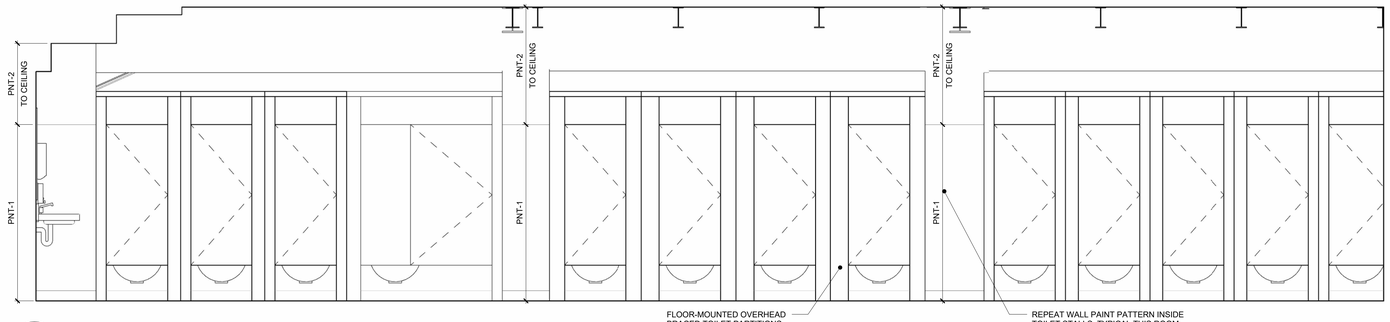
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SHEET TITLE:
**ENLARGED PLANS & INTERIOR ELEVATIONS**

SHEET NUMBER:
**A8.5**

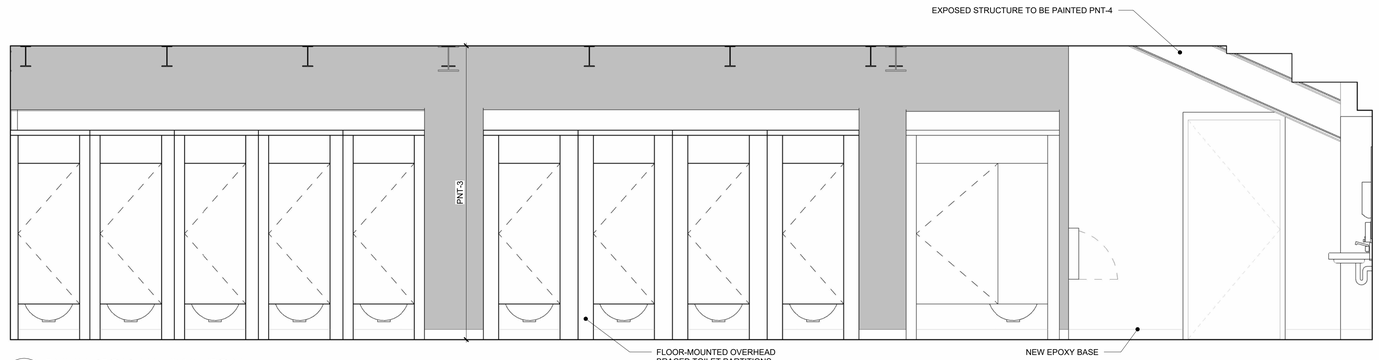
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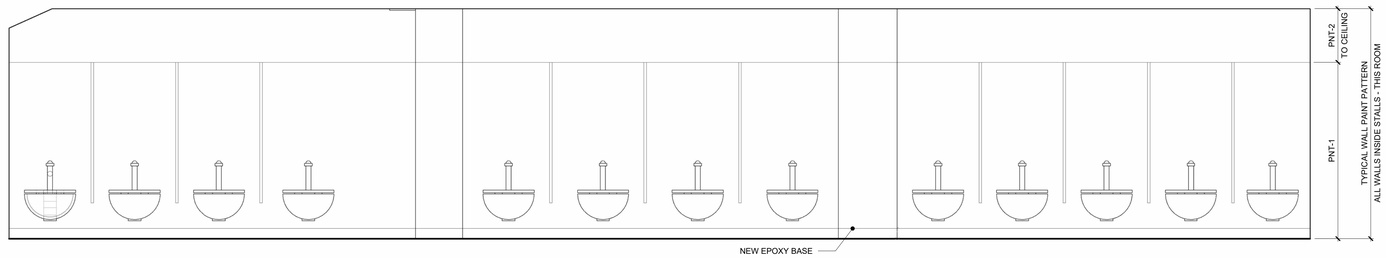

**1 INTERIOR ELEVATION** — A8.6 — 1/2" = 1'-0"

H-101 WOMENS RESTROOM



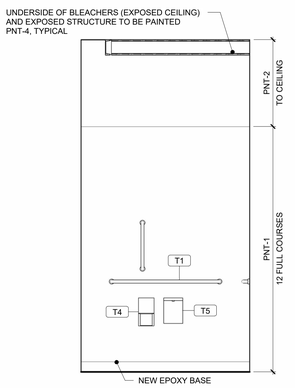

**2 INTERIOR ELEVATION** — A8.6 — 1/2" = 1'-0"

H-101 WOMENS RESTROOM



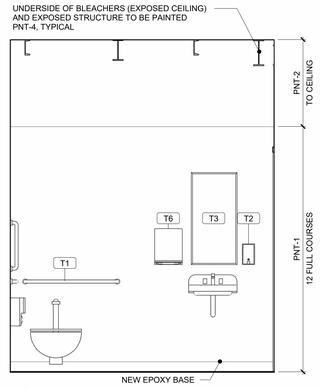

**3 INTERIOR ELEVATION** — A8.6 — 1/2" = 1'-0"

H-101 WOMENS RESTROOM



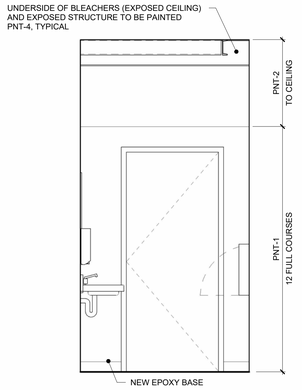

**4 INTERIOR ELEVATION** — A8.6 — 1/2" = 1'-0"

H-103 RESTROOM



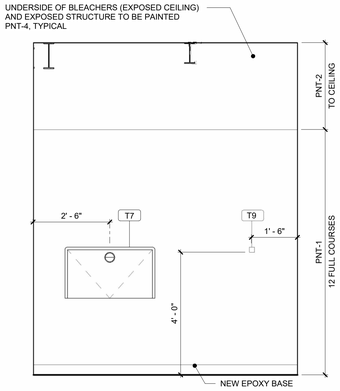

**5 INTERIOR ELEVATION** — A8.6 — 1/2" = 1'-0"

H-103 RESTROOM




**6 INTERIOR ELEVATION** — A8.6 — 1/2" = 1'-0"

H-103 RESTROOM




**7 INTERIOR ELEVATION** — A8.6 — 1/2" = 1'-0"

H-103 RESTROOM

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| ISSUE DATES | DESCRIPTION: |
|---|---|
| DATE: | |
| 01/06/2025 | BID DOCUMENTS |

PROJ # : 24-SDL-03 DRAWN BY : Author

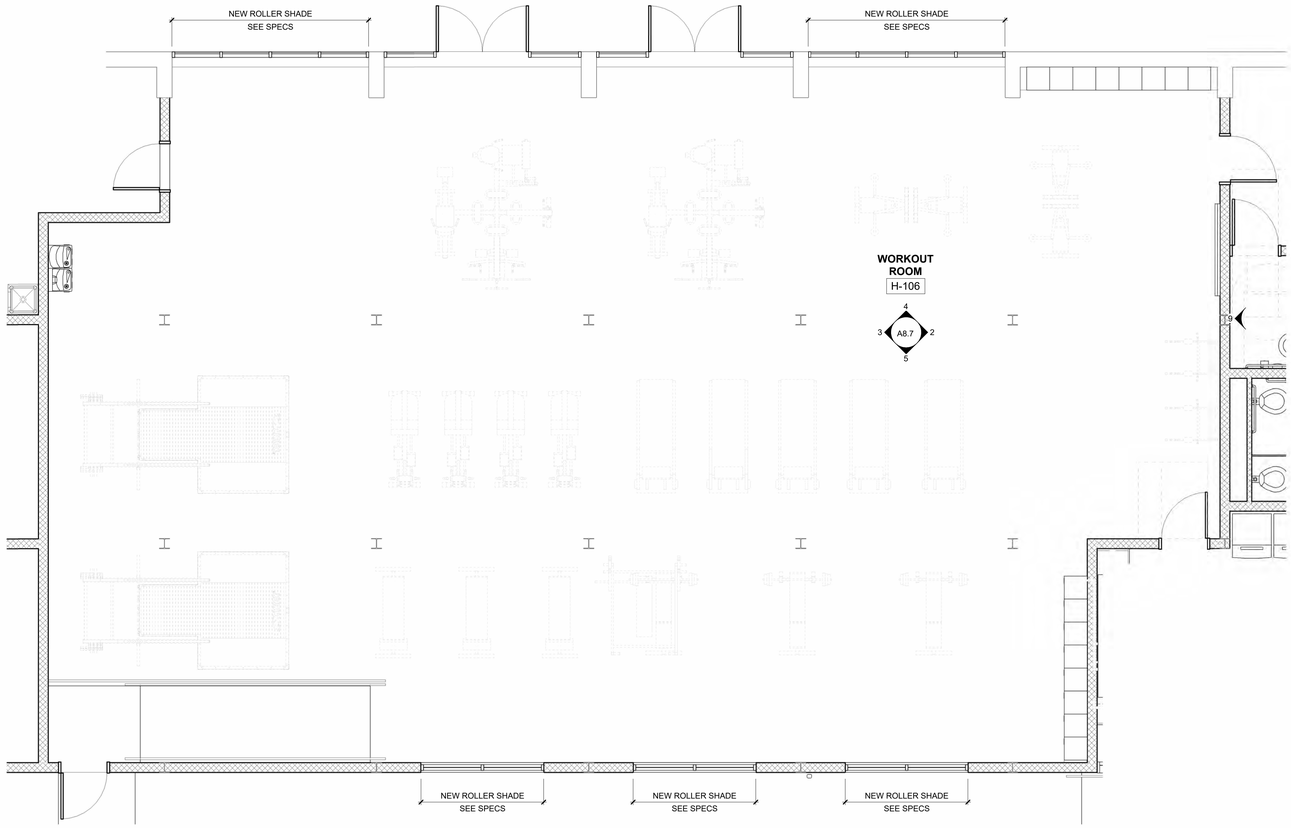
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**ENLARGED PLANS & INTERIOR ELEVATIONS**

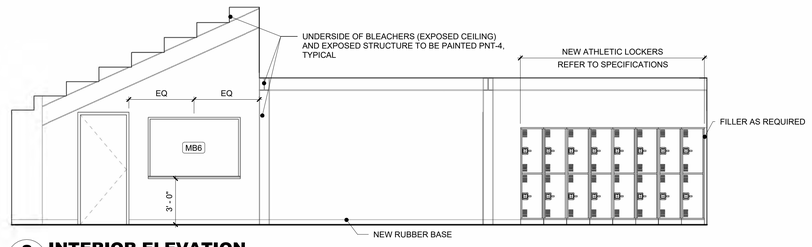
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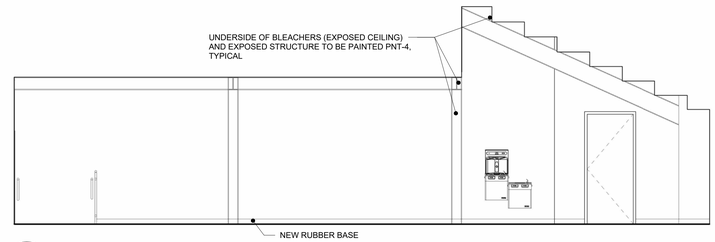
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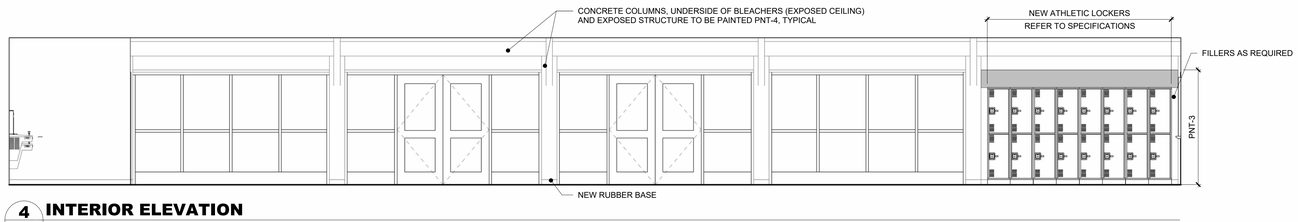

**1 ENLARGED PLAN**
A8.7 1/4" = 1'-0"



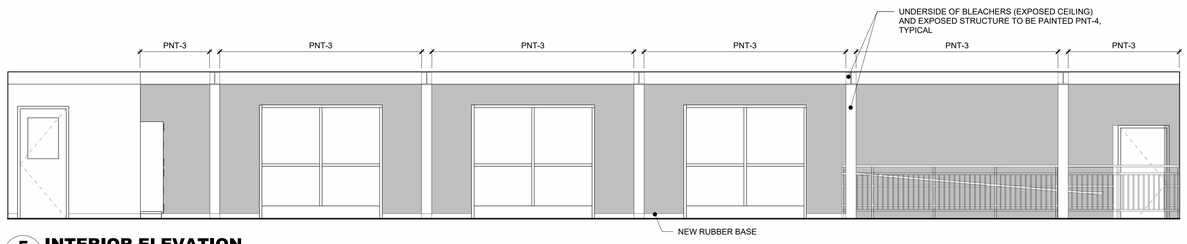

**2 INTERIOR ELEVATION**
A8.7 1/4" = 1'-0"
H-106 WORKOUT ROOM




**3 INTERIOR ELEVATION**
A8.7 1/4" = 1'-0"
H-106 WORKOUT ROOM




**4 INTERIOR ELEVATION**
A8.7 1/4" = 1'-0"
H-106 WORKOUT ROOM




**5 INTERIOR ELEVATION**
A8.7 1/4" = 1'-0"
H-106 WORKOUT ROOM

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ISSUE DATES
DATE: 01/06/2025 DESCRIPTION: BID DOCUMENTS

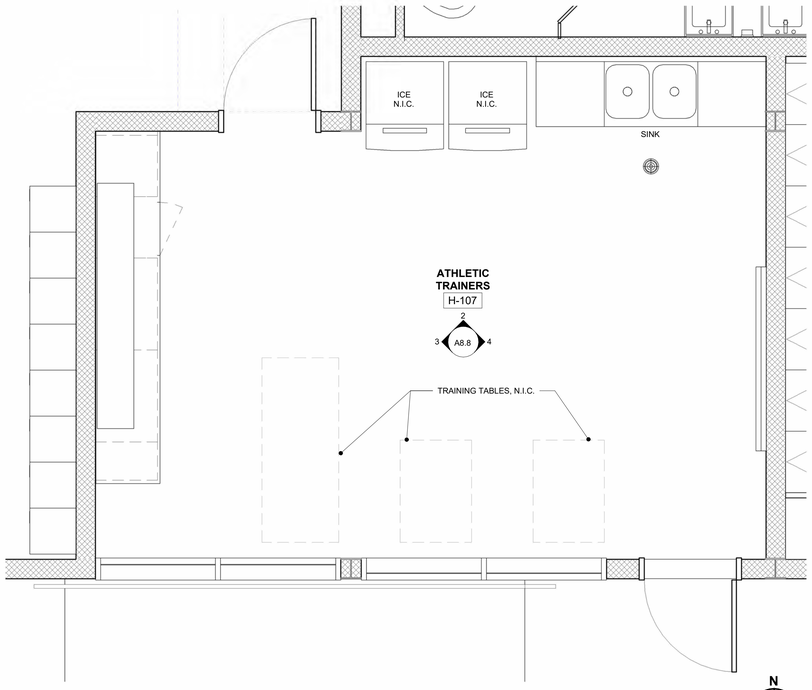
PROJ # : 24-SDL-03 DRAWN BY : Author

SHEET TITLE:
**ENLARGED PLANS & INTERIOR ELEVATIONS**

SHEET NUMBER:
**A8.7**

**BID DOCUMENTS**

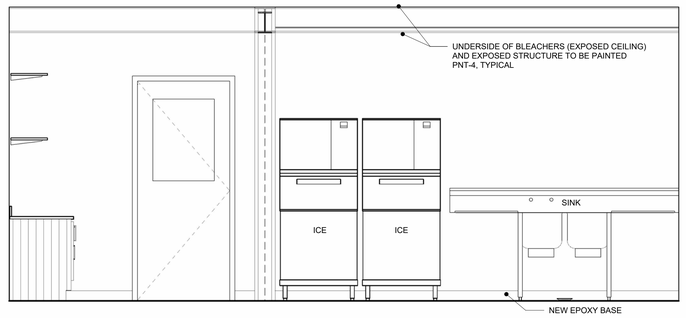
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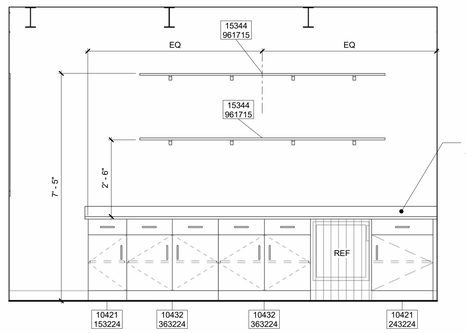

## 1 ENLARGED PLAN
A8.8 1/2" = 1'-0"



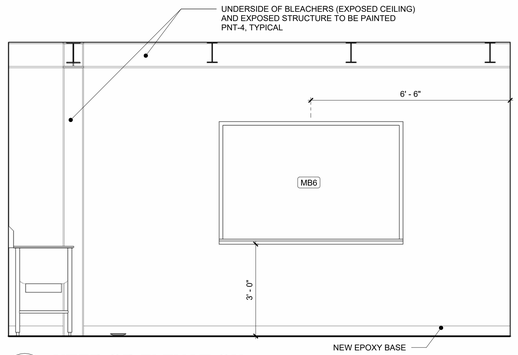

PLAN NORTH



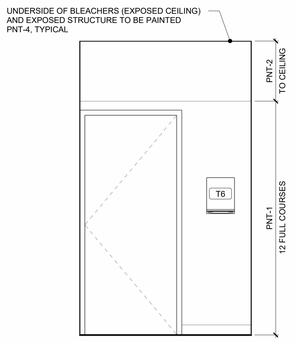

## 2 INTERIOR ELEVATION
A8.8 1/2" = 1'-0" — H-107 ATHLETIC TRAINERS



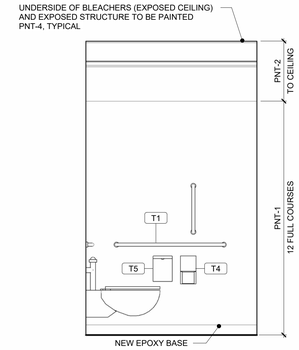

## 3 INTERIOR ELEVATION
A8.8 1/2" = 1'-0" — H-107 ATHLETIC TRAINERS



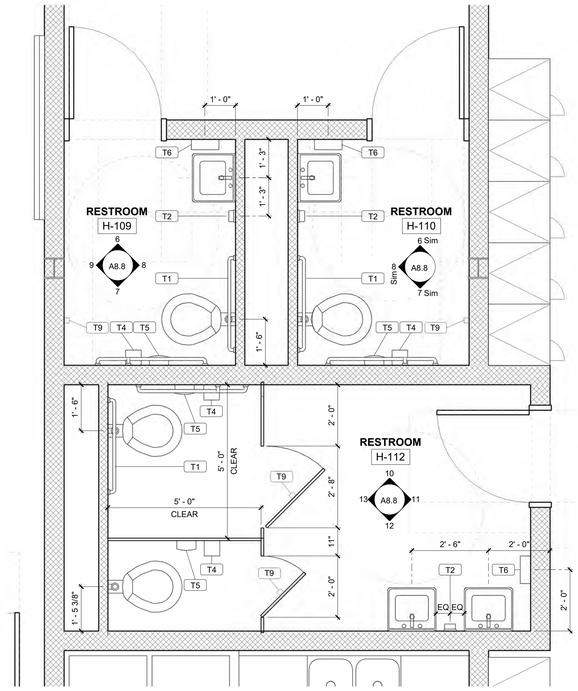

## 4 INTERIOR ELEVATION
A8.8 1/2" = 1'-0" — H-107 ATHLETIC TRAINERS



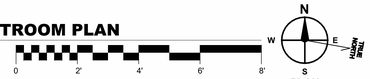

## 6 INTERIOR ELEVATION
A8.8 1/2" = 1'-0" — H-109 RESTROOM



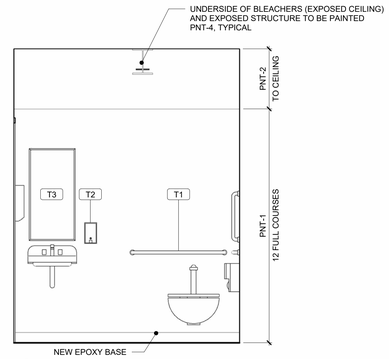

## 7 INTERIOR ELEVATION
A8.8 1/2" = 1'-0" — H-109 RESTROOM



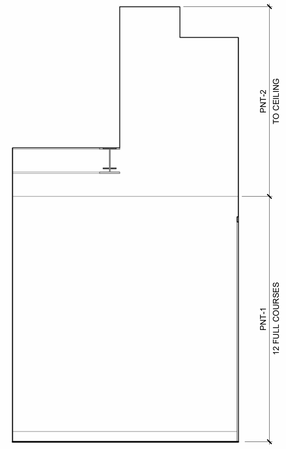

## 5 ENLARGED RESTROOM PLAN
A8.8 1/2" = 1'-0"



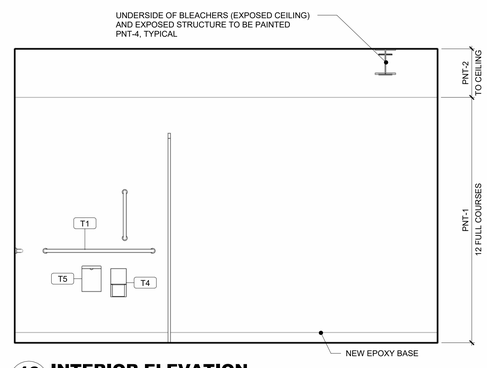

PLAN NORTH



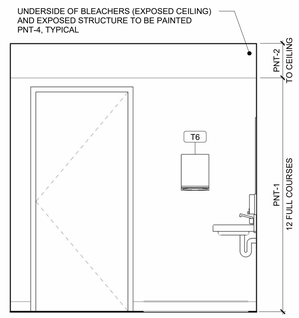

## 8 INTERIOR ELEVATION
A8.8 1/2" = 1'-0" — H-109 RESTROOM



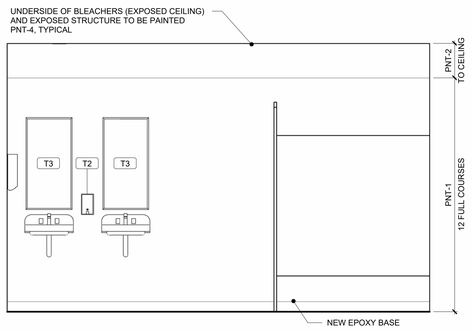

## 9 INTERIOR ELEVATION
A8.8 1/2" = 1'-0" — H-109 RESTROOM



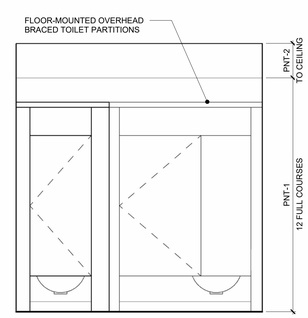

## 10 INTERIOR ELEVATION
A8.8 1/2" = 1'-0" — H-112 RESTROOM




## 11 INTERIOR ELEVATION
A8.8 1/2" = 1'-0" — H-112 RESTROOM




## 12 INTERIOR ELEVATION
A8.8 1/2" = 1'-0" — H-112 RESTROOM




## 13 INTERIOR ELEVATION
A8.8 1/2" = 1'-0" — H-112 RESTROOM

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RENOVATIONS
J.P. MCCASKEY STADIUM
PROJECTS
SCHOOL DISTRICT OF LANCASTER
445 N RESERVOIR ST, LANCASTER, PA 17602

ISSUE DATES
DATE: 01/06/2025 — DESCRIPTION: BID DOCUMENTS

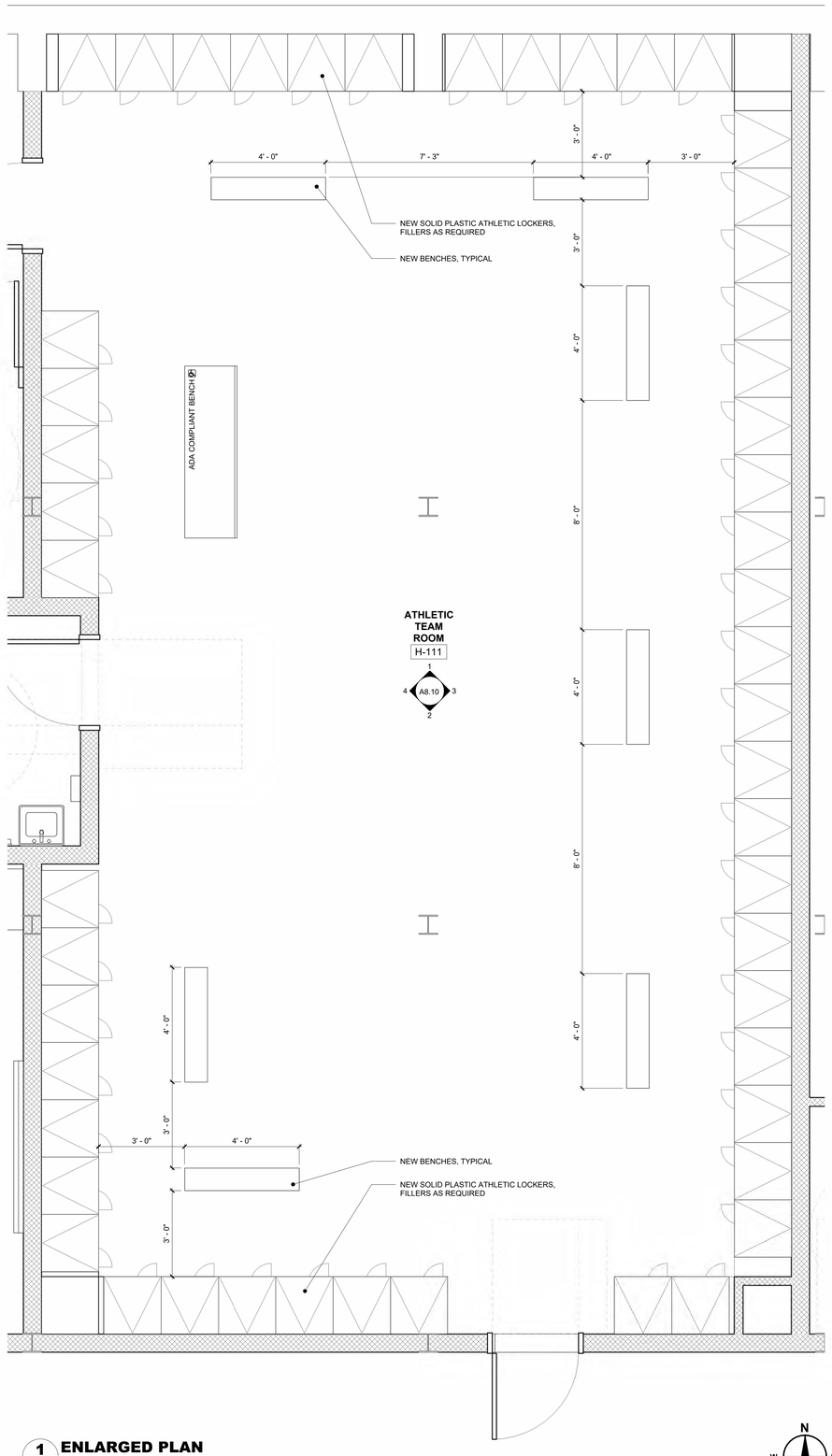
PROJ # : 24-SDL-03 — DRAWN BY : Author

SHEET TITLE:
**ENLARGED PLANS & INTERIOR ELEVATIONS**

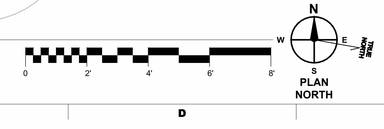
SHEET NUMBER:
**A8.8**

**BID DOCUMENTS**

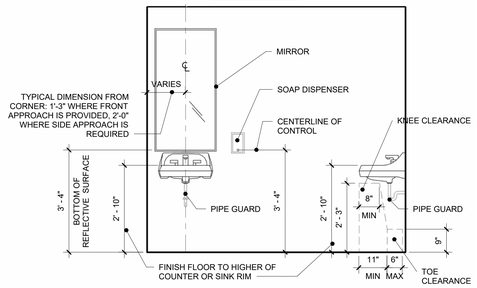
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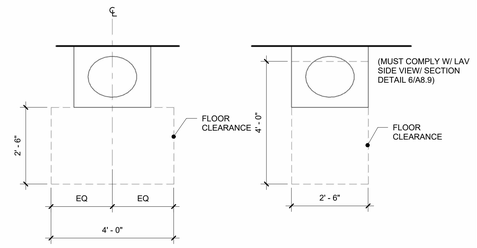

**1 ENLARGED PLAN**
A8.9 1/2" = 1'-0"




## LAVATORY



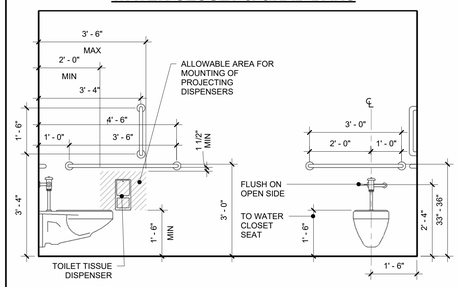

**FRONT** **SIDE / SECTION**



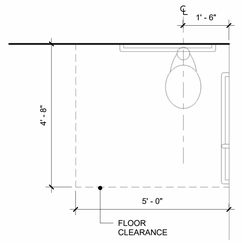

**SINK WITH CABINET BELOW/SIDE APPROACH: PLAN VIEW**

**WALL MOUNTED/ SINK WITHOUT CABINET BELOW: PLAN VIEW**

## WATER CLOSET & GRAB BARS

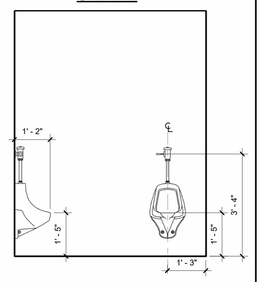



**SIDE** **FRONT**

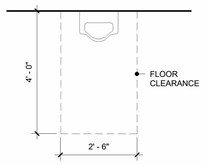



**WATER CLOSET: PLAN VIEW**

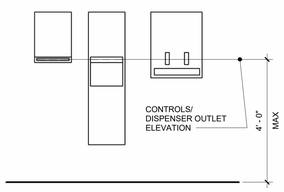
## URINAL

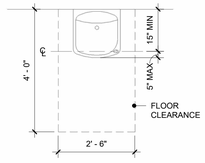



**SIDE** **FRONT**

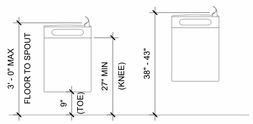



**URINAL: PLAN VIEW**




FRONT APPROACH




WHEEL CHAIR STANDING

### GENERAL RESTROOM NOTES

1. CONTRACTORS SHALL FIELD VERIFY ALL DIMENSIONS AND REPORT ANY DISCREPANCIES TO THE ARCHITECT IMMEDIATELY, PRIOR TO THE COMMENCEMENT OF WORK.
2. FIXTURE SCHEDULE FOR REPRESENTATION ONLY, GC TO VERIFY ALL TOILET ROOM FIXTURES AND ACCESSORIES WITH PLUMBING CONTRACTOR AND OWNER PRIOR TO COMMENCEMENT OF WORK.
3. GWB IN RESTROOMS; WALLS AND CEILINGS TO BE MOISTURE RESISTANT.
4. TOILET ACCESSORIES TO BE ACCORDANCE WITH ANSI A117.1 - 2009.
5. FLOORS IN RESTROOMS TO HAVE A SMOOTH, HARD, NONABSORBENT SURFACE THAT EXTENDS UPWARD ONTO THE WALLS AT LEAST 4" (IBC 2015 SECTION 1210.2.1)
6. RESTROOM WALLS WITHIN 2'-0" OF SERVICE SINKS, URINALS AND WATER CLOSETS TO HAVE A SMOOTH, HARD, NONABSORBENT SURFACE, TO A HEIGHT OF 4'-0" ABOVE THE FLOOR (IBC 2015 SECTION 1210.2.2)
7. ALL EXPOSED FIXTURE PIPES TO BE INSULATED.

### TOILET ACCESSORY SCHEDULE

| Type Mark | Description |
|---|---|
| T1 | ADA Compliant Horizontal and Vertical Grab Bars |
| T2 | Surface-Mounted Soap Dispenser |
| T3 | Bobrick B-165 1836 Channel Frame Mirror |
| T4 | Surface-Mounted Multi-Roll Toilet Tissue Dispenser |
| T5 | Surface-Mounted Sanitary Napkin Disposal |
| T6 | Surface-Mounted Paper Towel Dispenser |
| T7 | Bobrick KB110-SSWM Surface Mounted Baby Changing Station |
| T8 | Utility Shelf |
| T9 | Bobrick B-672 Surface Mounted Double Robe Hook |

GENERAL NOTES:

1. PROVIDED AND INSTALLED BY GC:
GRAB BAR SET, SANITARY NAPKIN, GLASS MIRROR, AND SURFACE MOUNTED MOP BROOM HOLDER.
2. PROVIDED BY OWNER, INSTALLED BY GC:
TOILET TISSUE DISPENSER, SOAP DISPENSER, AND PAPER TOWEL DISPENSER.
3. Gc TO PROVIDE AND INSTALL COAT HOOKS ON INTERIOR SIDE OF ALL GANG RESTROOM STALL DOORS AND INTERIOR OF ALL SINGLE USE RESTROOM DOORS. MOUNTING HEIGHT MAXIMUM OF 48" AFF BOBRICK COAT HOOK B-672 BASIS OF DESIGN.
4. Gc TO PROVIDE ALL REQ'D. BLOCKING FOR ACCESSORIES.

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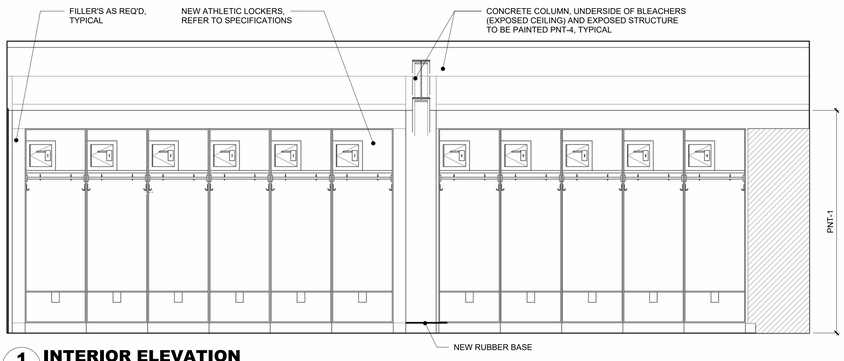
PROJ # : 24-SDL-03 DRAWN BY : Author

SHEET TITLE:
**ENLARGED PLAN & ACCESSIBILITY DETAILS**

SHEET NUMBER:
**A8.9**

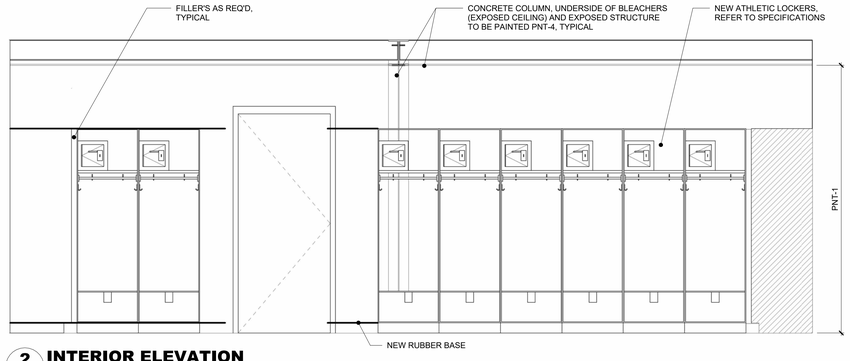
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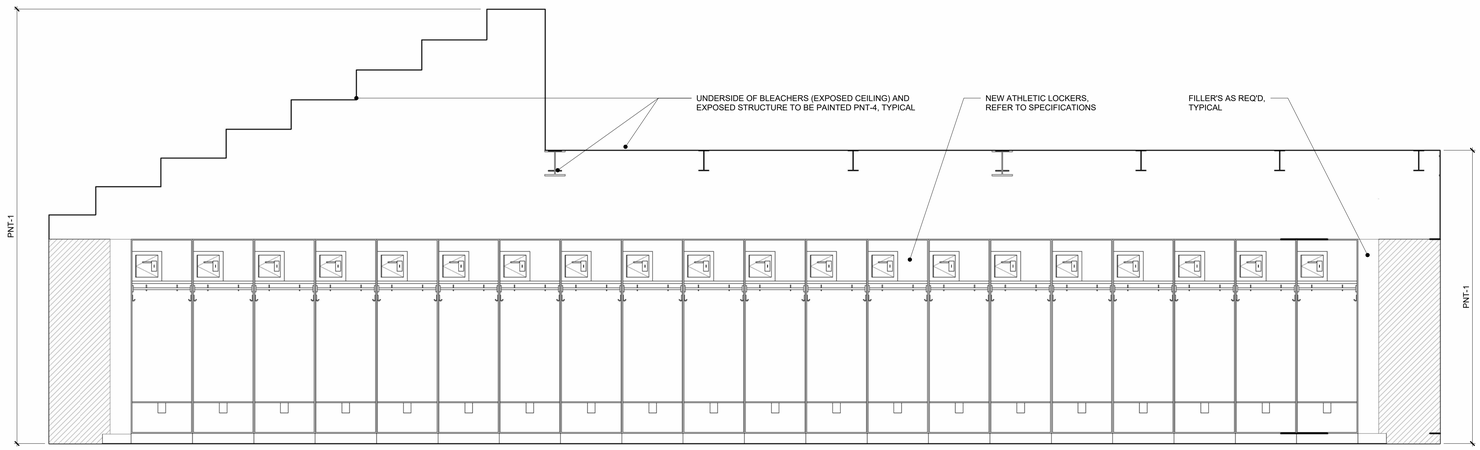

**1 INTERIOR ELEVATION**
A8.10 1/2" = 1'-0"

H-111 ATHLETIC TEAM ROOM



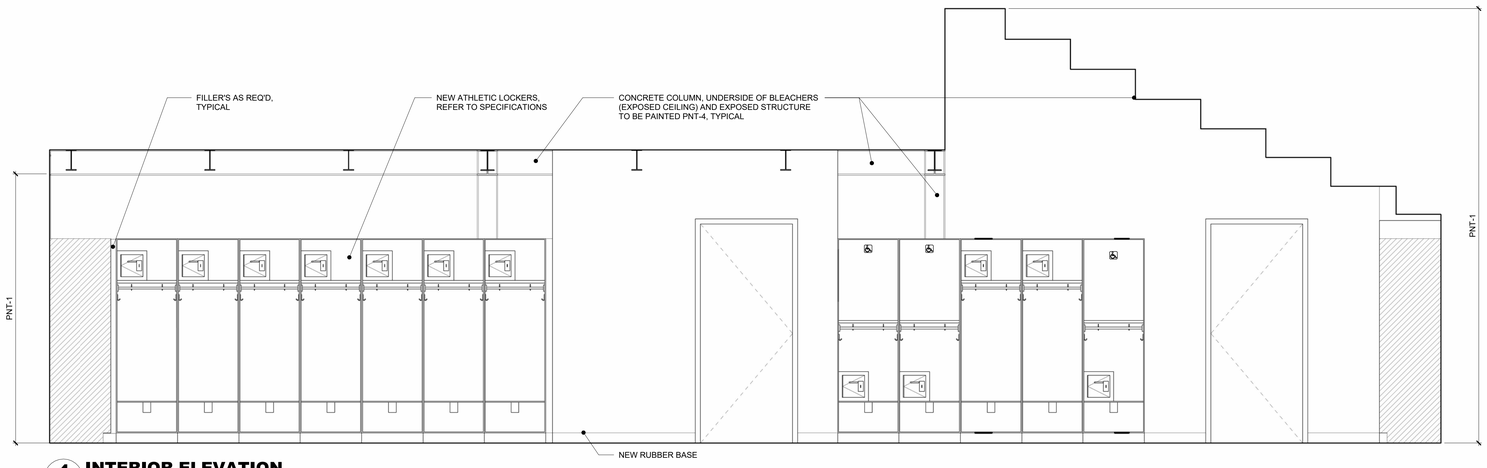

**2 INTERIOR ELEVATION**
A8.10 1/2" = 1'-0"

H-111 ATHLETIC TEAM ROOM




**3 INTERIOR ELEVATION**
A8.10 1/2" = 1'-0"

H-111 ATHLETIC TEAM ROOM




**4 INTERIOR ELEVATION**
A8.10 1/2" = 1'-0"

H-111 ATHLETIC TEAM ROOM

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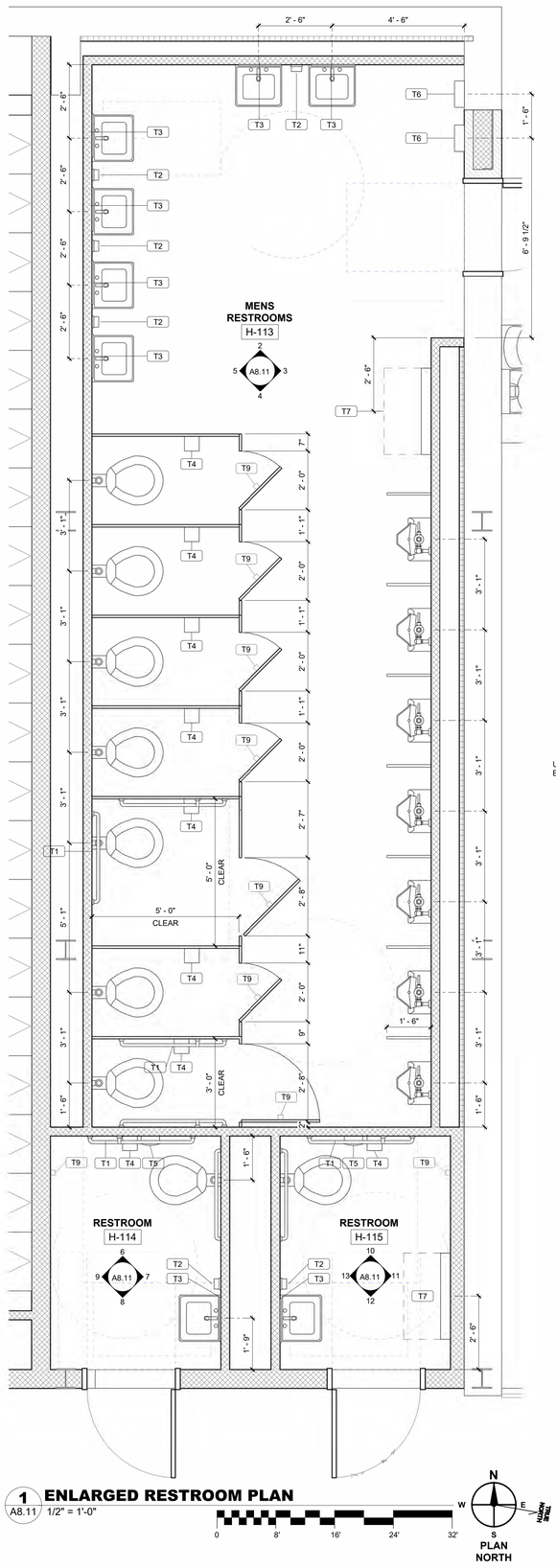
PROJ # : 24-SDL-03 DRAWN BY : DRW

SHEET TITLE:
**INTERIOR ELEVATIONS**

SHEET NUMBER:
**A8.10**

**BID DOCUMENTS**

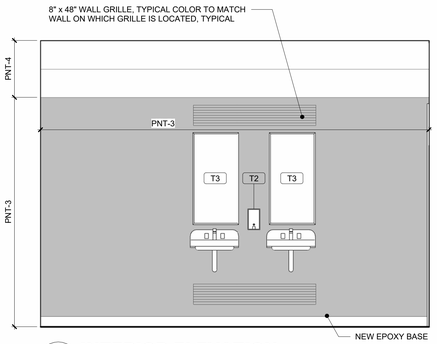
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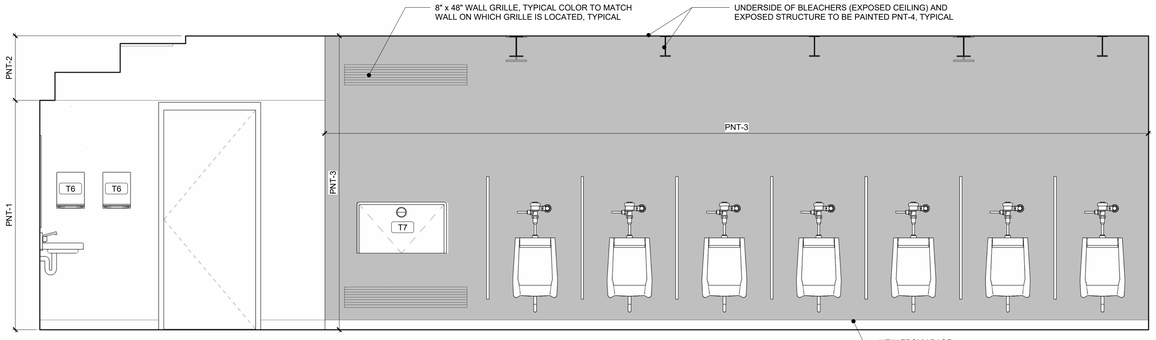

**1 ENLARGED RESTROOM PLAN** — A8.11 — 1/2" = 1'-0"

0 8' 16' 24' 32'

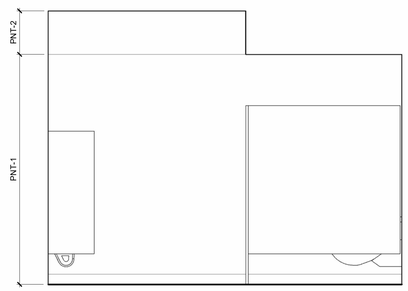
N W E S — PLAN NORTH



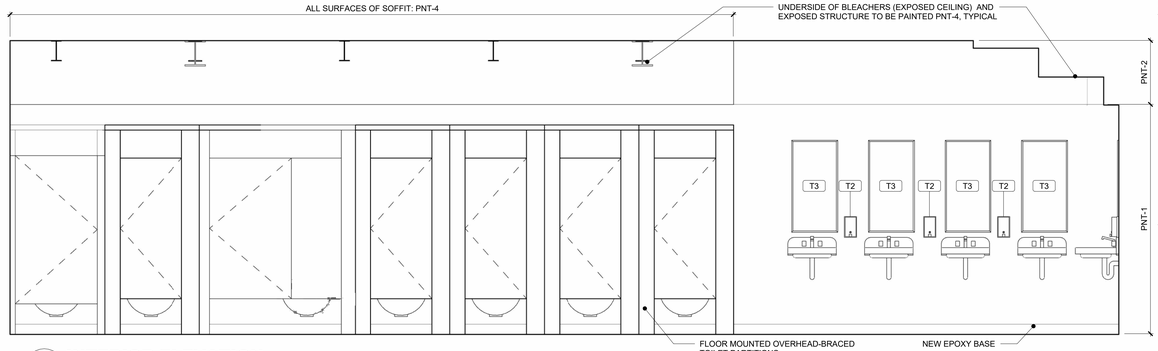

**2 INTERIOR ELEVATION** — A8.11 — 1/2" = 1'-0" — H-113 MENS RESTROOMS



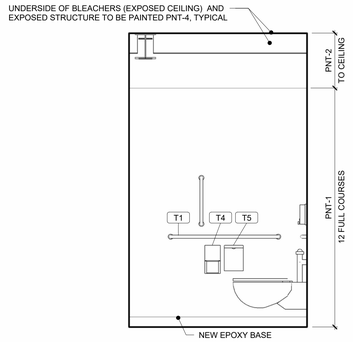

**3 INTERIOR ELEVATION** — A8.11 — 1/2" = 1'-0" — H-113 MENS RESTROOMS



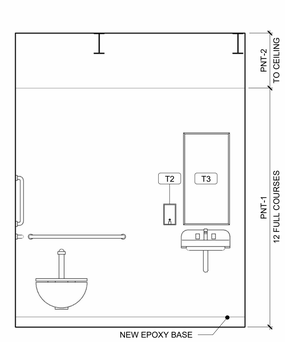

**4 INTERIOR ELEVATION** — A8.11 — 1/2" = 1'-0" — H-113 MENS RESTROOMS



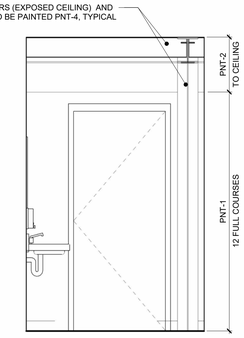

**5 INTERIOR ELEVATION** — A8.11 — 1/2" = 1'-0" — H-113 MENS RESTROOMS



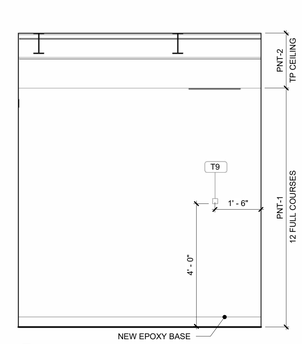

**6 INTERIOR ELEVATION** — A8.11 — 1/2" = 1'-0" — H-114 RESTROOM



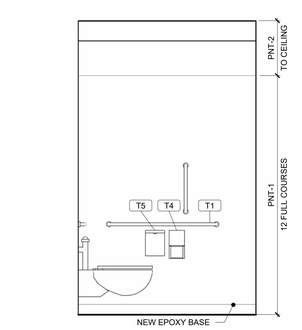

**7 INTERIOR ELEVATION** — A8.11 — 1/2" = 1'-0" — H-114 RESTROOM



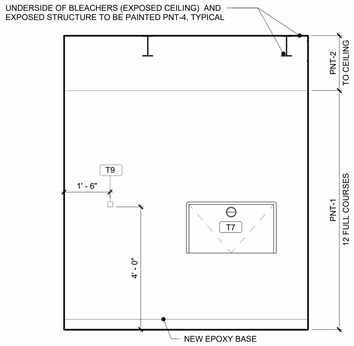

**8 INTERIOR ELEVATION** — A8.11 — 1/2" = 1'-0" — H-114 RESTROOM



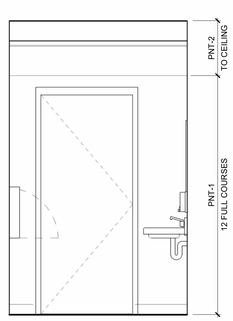

**9 INTERIOR ELEVATION** — A8.11 — 1/2" = 1'-0" — H-114 RESTROOM



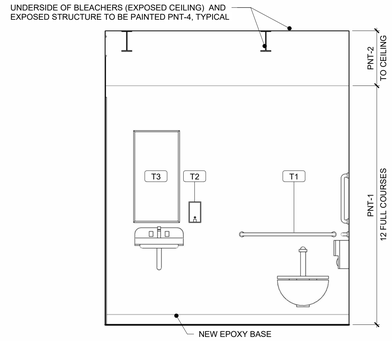

**10 INTERIOR ELEVATION** — A8.11 — 1/2" = 1'-0" — H-115 RESTROOM




**11 INTERIOR ELEVATION** — A8.11 — 1/2" = 1'-0" — H-115 RESTROOM




**12 INTERIOR ELEVATION** — A8.11 — 1/2" = 1'-0" — H-115 RESTROOM




**13 INTERIOR ELEVATION** — A8.11 — 1/2" = 1'-0" — H-115 RESTROOM

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PROJ # : 24-SDL-03 DRAWN BY : DRW

SHEET TITLE:
**ENLARGED PLANS & INTERIOR ELEVATIONS**

SHEET NUMBER:
**A8.11**

**BID DOCUMENTS**

# DOOR SCHEDULE

| DOOR NUMBER | DOOR SIZE WIDTH LEAF 1 | DOOR SIZE WIDTH LEAF 2 | DOOR SIZE HEIGHT | DOOR TYPE | DOOR MATERIAL | FIRE RATING | FRAME TYPE | FRAME MATERIAL | FRAME HEAD | FRAME JAMB | FRAME SILL | COMMENTS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| exH-107.3 | | | 7' - 4" | | | | | | | | | |
| exH-107.4 | | | 7' - 4" | | | | | | | | | |
| H-101 | 3' - 0" | | 7' - 2" | F | HM | | HM1 | HM | 10/A9.1 | 9/A9.1 | 23/A9.1 | |
| H-102 | 3' - 0" | | 7' - 2" | F | HM | | HM1 | HM | 3/A9.1 | 4/A9.1 | 23/A9.1 | |
| H-103 | 3' - 0" | | 7' - 2" | F | HM | | HM1 | HM | 3/A9.1 | 4/A9.1 | 23/A9.1 | |
| H-104 | 3' - 0" | 3' - 0" | 7' - 2" | F | WD | | HM2 | HM | 3/A9.1 | 4/A9.1 | | |
| H-105.1.1 | 2' - 10" | 2' - 10" | 7' - 2" | F | HM | | HM2 | HM | 11/A9.1 | 2/A9.1 | 23/A9.1 | |
| H-105.1.2 | 3' - 0" | | 7' - 2" | F | WD | | HM2 | HM | 5/A9.1 | 4/A9.1 | | |
| H-106.1 | 3' - 0" | 3' - 0" | 7' - 2" | AG2 | ALUM | | AL2 | ALUM | 2/A3.2 | 16/A9.1 | 23/A9.1 | |
| H-106.2 | 3' - 0" | 3' - 0" | 7' - 2" | AG2 | ALUM | | AL2 | ALUM | 2/A3.2 | 16/A9.1 | 23/A9.1 | |
| H-106.3 | 3' - 0" | | 7' - 2" | F | WD | | HM2 | HM | 3/A9.1 | 4/A9.1 | | |
| H-106.4 | 3' - 0" | | 7' - 2" | F | HM | | HM1 | HM | 3/A9.1 | 4/A9.1 | 23/A9.1 | |
| H-107.1 | 3' - 0" | | 7' - 2" | G | WD | | HM1 | HM | 3/A9.1 | 4/A9.1 | | |
| H-107.2 | 3' - 0" | | 7' - 2" | F | HM | | HM1 | HM | 5/A9.1 | 4/A9.1 | 22/A9.1 | |
| H-108 | 2' - 10" | 2' - 10" | 7' - 2" | F | HM | | HM2 | HM | 11/A9.1 | 2/A9.1 | 23/A9.1 | |
| H-109 | 3' - 0" | | 7' - 2" | F | WD | | HM1 | HM | 3/A9.1 | 4/A9.1 | | 12"x12" LOUVER |
| H-110 | 3' - 0" | | 7' - 2" | F | WD | | HM1 | HM | 3/A9.1 | 4/A9.1 | | 12"x12" LOUVER |
| H-111.1 | 3' - 0" | | 7' - 2" | F | WD | | HM2 | HM | 3/A9.1 | 4/A9.1 | | |
| H-111.2 | 3' - 0" | | 7' - 2" | F | HM | | HM1 | HM | 5/A9.1 | 4/A9.1 | 23/A9.1 | |
| H-112 | 3' - 0" | | 7' - 2" | F | WD | | HM1 | HM | 3/A9.1 | 4/A9.1 | | 12"x12" LOUVER |
| H-113 | 3' - 0" | | 7' - 2" | F | HM | | HM1 | HM | 10/A9.1 | 9/A9.1 | 23/A9.1 | |
| H-114 | 3' - 0" | | 7' - 2" | F | HM | | HM1 | HM | 5/A9.1 | 4/A9.1 | 23/A9.1 | |
| H-115 | 3' - 0" | | 7' - 2" | F | HM | | HM1 | HM | 5/A9.1 | 4/A9.1 | 23/A9.1 | |
| H-202.1 | 3' - 0" | | 7' - 2" | F | HM | 90 MIN | HM1 | HM | 3/A9.1 | 4/A9.1 | | |
| H-203 | 3' - 0" | | 7' - 2" | F | HM | | HM1 | HM | 12/A9.1 | 13/A9.1 | | |
| H-203.2 | 3' - 0" | | 7' - 2" | F | HM | | HM1 | HM | 3/A9.1 | 4/A9.1 | | |
| V-101 | 3' - 0" | | 7' - 2" | F | WD | | HM1 | HM | 3/A9.1 | 4/A9.1 | | |
| V-102 | 3' - 0" | | 7' - 2" | F | WD | | HM1 | HM | 3/A9.1 | 4/A9.1 | | 12"x12" LOUVER |
| V-103.1.3 | 3' - 0" | | 7' - 2" | F | HM | | HM1 | HM | 3/A9.1 | 4/A9.1 | | |
| V-103.2 | 4' - 0" | 4' - 0" | 7' - 2" | F | HM | | HM2 | HM | 1/A9.1 | 2/A9.1 | 23/A9.1 | |
| V-104 | 3' - 0" | | 7' - 2" | F | HM | | HM1 | HM | 6/A9.1 | 7/A9.1 | 23/A9.1 | |
| V-105 | 3' - 0" | | 7' - 2" | F | HM | | HM1 | HM | 8/A9.1 | 9/A9.1 | 23/A9.1 | |
| V-106 | 3' - 0" | | 7' - 2" | F | HM | | HM1 | HM | 8/A9.1 | 9/A9.1 | 23/A9.1 | |
| V-107 | 3' - 0" | | 7' - 2" | F | HM | | HM1 | HM | 6/A9.1 | 7/A9.1 | 23/A9.1 | |
| V-107.1 | 3' - 0" | | 7' - 2" | F | HM | | HM1 | HM | 3/A9.1 | 4/A9.1 | | 12"x12" LOUVER |
| V-108 | 4' - 0" | 4' - 0" | 7' - 2" | F | HM | | HM2 | HM | 3/A9.1 | 4/A9.1 | | |
| V-111.1 | 4' - 0" | 4' - 0" | 7' - 2" | F | HM | | HM2 | HM | 1/A9.1 | 2/A9.1 | 23/A9.1 | |
| V-111.2 | 3' - 0" | | 7' - 2" | F | HM | | HM1 | HM | 3/A9.1 | 4/A9.1 | | |

# DOOR SCHEDULE - OVERHEAD DOORS

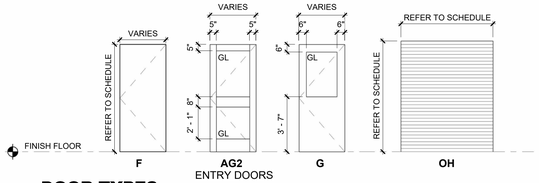
| DOOR NUMBER | WIDTH | SIZE HEIGHT | DOOR TYPE | DOOR MATERIAL | FIRE RATING | FRAME HEAD | FRAME JAMB | FRAME SILL | COMMENTS |
|---|---|---|---|---|---|---|---|---|---|
| H-105.1 | 9' - 4" | 8' - 0" | OH | STEEL INSUL | | 8/A9.1 | 7/A9.1 | 25/A9.1 | OH COILING DOOR |
| H-202.2 | 9' - 4" | 10' - 0" | OH | STEEL INSUL | | 8/A9.1 | 7/A9.1 | 25/A9.1 | OH COILING DOOR |
| H-202.3 | 9' - 4" | 10' - 0" | OH | STEEL INSUL | | 8/A9.1 | 7/A9.1 | 25/A9.1 | OH COILING DOOR |

## LEGEND

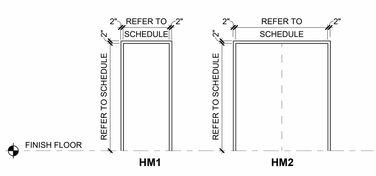
| | |
|---|---|
| GL | GLASS PANEL |
| MP | METAL PANEL |
| OV | OUTSWING VENT UNIT |
| TW | TRANSLUCENT WALL PANEL |
| M.O. | MASONRY OPENING |

## GENERAL DOOR AND FRAME NOTES

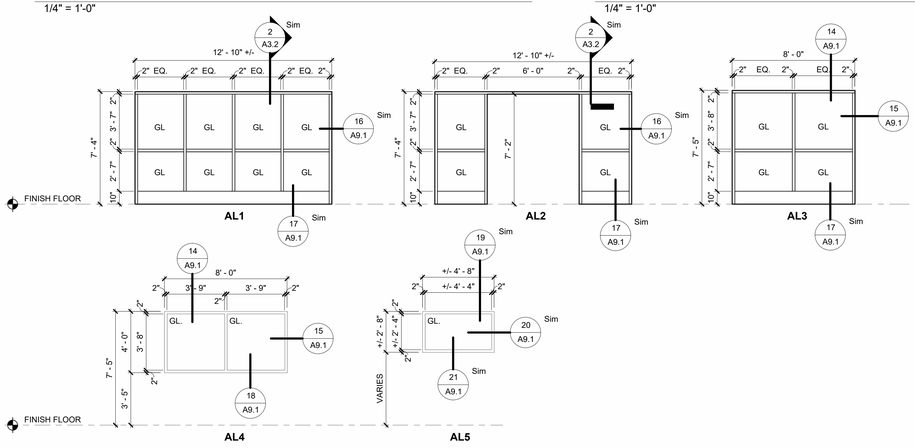
1. ALL DOORS LOCATED AT CORNERS IN MASONRY WALLS SHALL BE LOCATED 8" FROM ADJACENT PERPENDICULAR WALL TO OUTSIDE OF FRAME UNLESS DIMENSIONED OTHERWISE
2. ALL DOORS LOCATED AT CORNERS IN STUD WALLS SHALL BE LOCATED 4" FROM ADJACENT PERPENDICULAR WALL TO OUTSIDE OF FRAME UNLESS DIMENSIONED OTHERWISE
3. UNDERCUT DOORS AS REQUIRED TO OPERATE SMOOTHLY OVER FINISHED FLOOR. MAXIMUM UNDERCUT SHALL BE 1/4", UNLESS NOTED OTHERWISE FINISH BOTTOM OF DOORS AFTER UNDERCUTTING.



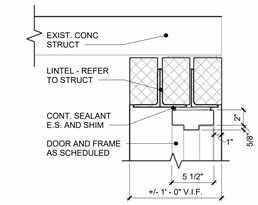

## DOOR TYPES
1/4" = 1'-0"



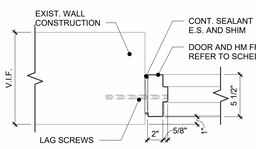

## HOLLOW METAL FRAME TYPES
1/4" = 1'-0"



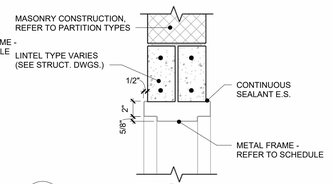

## ALUMINUM FRAME TYPES
1/4" = 1'-0"



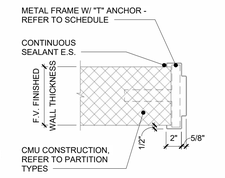

**1 HEAD DETAIL** — A9.1 — 1 1/2" = 1'-0"



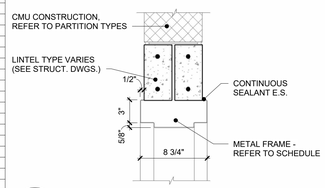

**2 JAMB DETAIL** — A9.1 — 1 1/2" = 1'-0"



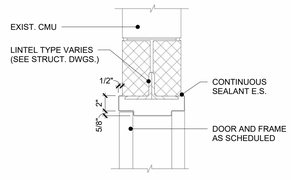

**3 HEAD DETAIL** — A9.1 — 1 1/2" = 1'-0"



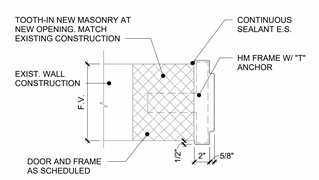

**4 JAMB DETAIL** — A9.1 — 1 1/2" = 1'-0"



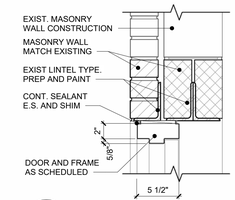

**5 HEAD DETAIL** — A9.1 — 1 1/2" = 1'-0"



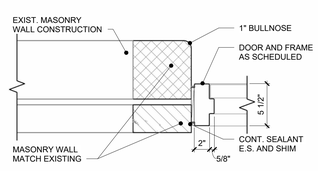

**6 HEAD DETAIL** — A9.1 — 1 1/2" = 1'-0"



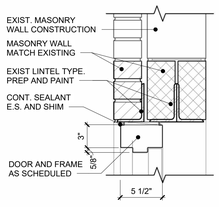

**7 JAMB DETAIL** — A9.1 — 1 1/2" = 1'-0"



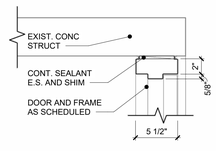

**8 HEAD DETAIL** — A9.1 — 1 1/2" = 1'-0"



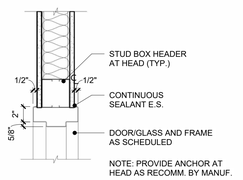

**9 HEAD DETAIL** — A9.1 — 1 1/2" = 1'-0"



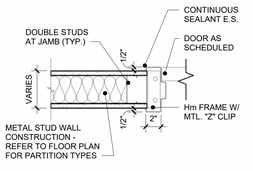

**10 HEAD DETAIL** — A9.1 — 1 1/2" = 1'-0"



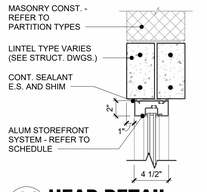

**11 HEAD DETAIL** — A9.1 — 1 1/2" = 1'-0"



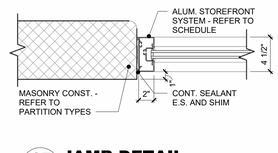

**12 HEAD DETAIL** — A9.1 — 1 1/2" = 1'-0"



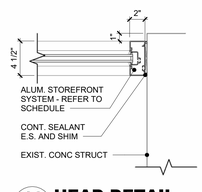

**13 JAMB DETAIL** — A9.1 — 1 1/2" = 1'-0"



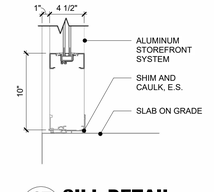

**14 HEAD DETAIL** — A9.1 — 1 1/2" = 1'-0"



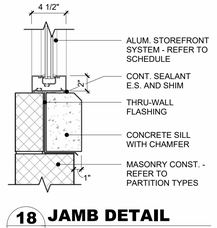

**15 JAMB DETAIL** — A9.1 — 1 1/2" = 1'-0"



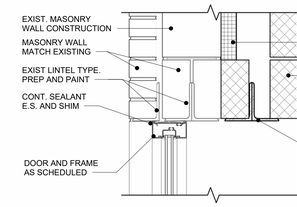

**16 HEAD DETAIL** — A9.1 — 1 1/2" = 1'-0"



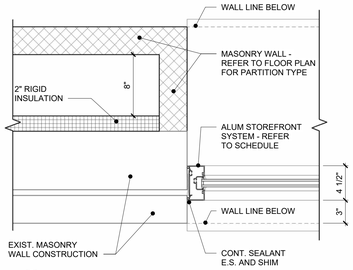

**17 SILL DETAIL** — A9.1 — 1 1/2" = 1'-0"



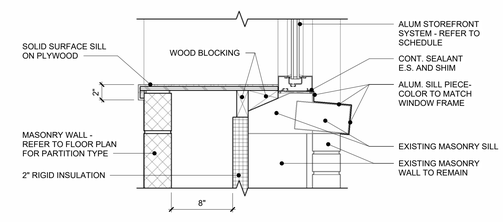

**18 JAMB DETAIL** — A9.1 — 1 1/2" = 1'-0"



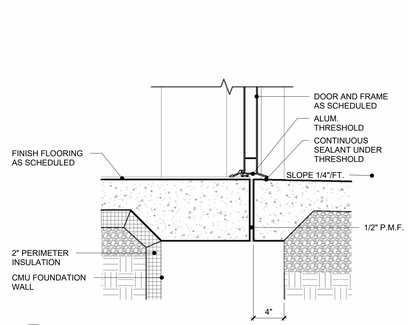

**19 HEAD DETAIL** — A9.1 — 1 1/2" = 1'-0"



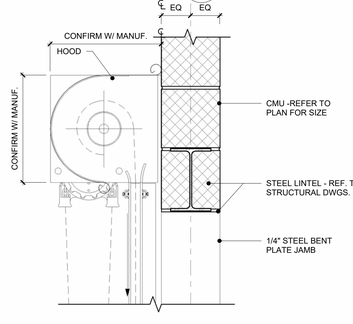

**20 JAMB DETAIL** — A9.1 — 1 1/2" = 1'-0"



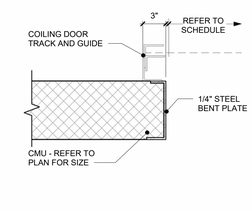

**21 SILL DETAIL** — A9.1 — 1 1/2" = 1'-0"



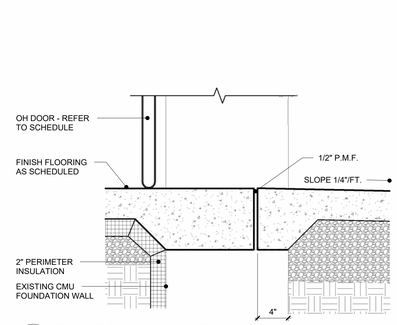

**22 THRESHOLD DETAIL** — A9.1 — 1 1/2" = 1'-0"




**23 HEAD DETAIL** — A9.1 — 1 1/2" = 1'-0"




**24 JAMB DETAIL** — A9.1 — 1 1/2" = 1'-0"




**25 THRESHOLD DETAIL** — A9.1 — 1 1/2" = 1'-0"


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School District of Lancaster
Together We Can!

CONSULTANT:

RENOVATIONS
J.P. MCCASKEY STADIUM
PROJECTS
SCHOOL DISTRICT OF LANCASTER
445 N RESERVOIR ST, LANCASTER, PA 17602

ISSUE DATES
DESCRIPTION: BID DOCUMENTS
DATE: 01/06/2025

PROJ # : 24-SDL-03 DRAWN BY : DRW

SHEET TITLE:

**DOOR & WINDOW SCHEDULES & TYPES**

SHEET NUMBER:

**A9.1**

**BID DOCUMENTS**

1/6/2025 5:27:00 PM

# ROOM FINISH SCHEDULE

| NUMBER | NAME | FLOOR FINISH | SUB-FLR | BASE | WALL FINISH N | WALL FINISH E | WALL FINISH S | WALL FINISH W | CEILING FINISH | CASEWORK | COMMENTS |
|---|---|---|---|---|---|---|---|---|---|---|---|
| H-101 | WOMENS RESTROOM | EPOXY | CONC. | EPOXY | PNT | PNT | PNT | PNT | PNT | --- | REFER TO INTERIOR ELEVATIONS FOR WALL & CEILING PAINT PATTERN/COLORS. |
| H-102 | JANITOR | COAT | EXIST. CONC. | --- | PNT | PNT | PNT | PNT | PNT | --- | --- |
| H-103 | RESTROOM | EPOXY | EXIST. CONC. | EPOXY | PNT | PNT | PNT | PNT | PNT | --- | REFER TO INTERIOR ELEVATIONS FOR WALL & CEILING PAINT PATTERN/COLORS. |
| H-104 | FOOTBALL STORAGE | COAT | EXIST. CONC. | --- | PNT | PNT | PNT | PNT | PNT | --- | --- |
| H-105 | OPEN STORAGE | COAT | EXIST. CONC. | --- | PNT | PNT | PNT | PNT | PNT | --- | --- |
| H-105.1 | ENTRY | COAT | CONC. | RB | PNT | PNT | PNT | PNT | PNT | --- | --- |
| H-106 | WORKOUT ROOM | RAF-1 / RAF-2 | CONC. | RB | PNT | PNT | PNT | PNT | PNT | --- | REFER TO INTERIOR ELEVATIONS FOR WALL & CEILING PAINT PATTERN/COLORS. |
| H-107 | ATHLETIC TRAINERS | EPOXY | CONC. | EPOXY | PNT | PNT | PNT | PNT | PNT | PLAM-1/ PLAM-2 | --- |
| H-108 | VESTIBULE | COAT | CONC. | RB | PNT | PNT | PNT | PNT | PNT | --- | --- |
| H-109 | RESTROOM | EPOXY | CONC. | EPOXY | PNT | PNT | PNT | PNT | PNT | --- | REFER TO INTERIOR ELEVATIONS FOR WALL & CEILING PAINT PATTERN/COLORS. |
| H-110 | RESTROOM | EPOXY | CONC. | EPOXY | PNT | PNT | PNT | PNT | PNT | --- | REFER TO INTERIOR ELEVATIONS FOR WALL & CEILING PAINT PATTERN/COLORS. |
| H-111 | ATHLETIC TEAM ROOM | RAF-1 / RAF-2 | CONC. | RB | PNT | PNT | PNT | PNT | PNT | --- | REFER TO INTERIOR ELEVATIONS FOR WALL & CEILING PAINT PATTERN/COLORS. |
| H-112 | RESTROOM | EPOXY | CONC. | EPOXY | PNT | PNT | PNT | PNT | PNT | --- | REFER TO INTERIOR ELEVATIONS FOR WALL & CEILING PAINT PATTERN/COLORS. |
| H-113 | MENS RESTROOMS | EPOXY | CONC. | EPOXY | PNT | PNT | PNT | PNT | PNT | --- | REFER TO INTERIOR ELEVATIONS FOR WALL & CEILING PAINT PATTERN/COLORS. |
| H-114 | RESTROOM | EPOXY | CONC. | EPOXY | PNT | PNT | PNT | PNT | PNT | --- | REFER TO INTERIOR ELEVATIONS FOR WALL & CEILING PAINT PATTERN/COLORS. |
| H-115 | RESTROOM | EPOXY | CONC. | EPOXY | PNT | PNT | PNT | PNT | PNT | --- | REFER TO INTERIOR ELEVATIONS FOR WALL & CEILING PAINT PATTERN/COLORS. |
| H-201 | MECHANICAL | CONC | CONC. | --- | PNT | PNT | PNT | PNT | PNT | --- | --- |
| H-202 | OPEN SPACE | EXIST | EXIST. / NEW CONC. | RB | PNT | PNT | PNT | PNT | PNT | --- | --- |
| H-203 | DATA CLOSET | CONC | CONC. | --- | PNT | PNT | PNT | PNT | PNT | --- | --- |
| H-301 | NEW HOME PRESS BOX | --- | - | --- | --- | --- | --- | --- | --- | --- | PRE-MANUFACTURED |
| V-101 | ATHLETIC TEAM ROOM | RAF-1 / RAF-2 | EXIST. CONC. | RB | PNT | PNT | PNT | PNT | PNT | --- | REFER TO INTERIOR ELEVATIONS FOR WALL & CEILING PAINT PATTERN/COLORS. |
| V-102 | RESTROOM | EPOXY | EXIST. CONC. | EPOXY | PNT | PNT | PNT | PNT | PNT | --- | REFER TO INTERIOR ELEVATIONS FOR WALL & CEILING PAINT PATTERN/COLORS. |
| V-103 | ENTRY | COAT | CONC. | RB | PNT | PNT | PNT | PNT | PNT | --- | --- |
| V-103.1 | DATA CLOSET | CONC | CONC. | --- | PNT | PNT | PNT | PNT | PNT | --- | --- |
| V-104 | WOMENS RESTROOM | EPOXY | CONC. | EPOXY | PNT | PNT | PNT | PNT | PNT | --- | REFER TO INTERIOR ELEVATIONS FOR WALL & CEILING PAINT PATTERN/COLORS. |
| V-105 | RESTROOM | EPOXY | CONC. | EPOXY | PNT | PNT | PNT | PNT | PNT | --- | REFER TO INTERIOR ELEVATIONS FOR WALL & CEILING PAINT PATTERN/COLORS. |
| V-106 | RESTROOM | EPOXY | CONC. | EPOXY | PNT | PNT | PNT | PNT | PNT | --- | REFER TO INTERIOR ELEVATIONS FOR WALL & CEILING PAINT PATTERN/COLORS. |
| V-107 | MENS RESTROOM | EPOXY | CONC. | EPOXY | PNT | PNT | PNT | PNT | PNT | --- | REFER TO INTERIOR ELEVATIONS FOR WALL & CEILING PAINT PATTERN/COLORS. |
| V-107.1 | JANITOR | COAT | CONC. | --- | PNT | PNT | PNT | PNT | PNT | --- | --- |
| V-108 | STORAGE | COAT | CONC. | RB | PNT | PNT | PNT | PNT | PNT | --- | --- |
| V-109 | STORAGE | COAT | EXIST. / NEW CONC. | RB | --- | PNT | PNT | PNT | PNT | --- | --- |
| V-110 | CORRIDOR | COAT | EXIST. / NEW CONC. | RB | PNT | PNT | --- | PNT | PNT | --- | --- |
| V-111 | ENTRY | COAT | EXIST. / NEW CONC. | RB | PNT | PNT | PNT | PNT | PNT | --- | --- |
| V-301 | VISITOR PRESS BOX | CONC | WOOD | RB | PNT | PNT | PNT | PNT | PNT | PLAM-2 | THIS COVERS 2 FLOORS OF EXISTING PRESS BOX. PROVIDE NEW PLASTIC LAMNATE COUNTERTOP AND SUPPORT BRACKETS AS REQUIRED. 24" DEEP. |

## GENERAL FINISH NOTES

1. CONTRACTOR SHALL FLASH AT DOORS TO ALLOW FOR A LEVEL FLOOR FINISH BETWEEN CONCRETE AND ADJACENT FINISHES SUCH AS EPOXY AND RUBBER SPORTS FLOOR AND EXISTING FLOORING THAT WILL REMAIN.
2. ALL EXPOSED STEEL TO BE PAINTED FINISH. VERIFY COLOR IN FIELD WITH OWNER AND ARCHITECT.
3. ALL COLORS TO BE CONFIRMED DURING THE SUBMITTAL PROCESS.
4. ALL PAINT COLORS ARE PLACE-HOLDERS. EXACT COLOR SELECTIONS WILL BE CONFIRMED DURING THE SUBMITTAL PROCESS WITH DRAWDOWNS.
5. CONCRETE SLAB IS TO SLOPE TO FLOOR DRAIN AT 1/8" / FT IN LOCATIONS AS SHOWN.
6. SUBMIT SAMPLES OF ALL SPECIFIED FINISHES AND COLORS FOR ARCHITECT'S APPROVAL PRIOR TO EXECUTION OF WORK.
7. ARCHITECT SHALL INTERPRET THE AESTHETIC MATCH OF THE CONTROL SAMPLES THEY POSSESS, AND THEIR ACCEPTANCE OR REJECTION OF THE SAMPLES OFFERED IS FINAL.
8. STARTING OF FINISH WORK SHALL INDICATE APPLICATOR'S ACCEPTANCE OF SUBSTRATE.
9. ENSURE ALL SURFACES TO RECEIVE FINISH ARE CLEAN, TRUE AND FREE OF IRREGULARITIES. DO NOT PROCEED WITH WORK UNTIL UNSATISFACTORY CONDITIONS HAVE BEEN CORRECTED.
10. CONCRETE SLAB TO BE FLASH PATCHED AS REQUIRED TO RECEIVE NEW FLOOR FINISH.
11. UPON RECEIPT FROM MANUFACTURER, THE INSTALLER SHALL INSPECT ALL MATERIAL FOR DEFECTS, SHIPPING DAMAGE, FLAWS, CORRECT COLOR AND PATTERN. DAMAGED OR INCORRECT MATERIALS SHALL BE SENT BACK TO THE MANUFACTURER FOR IMMEDIATE REPLACEMENT.
12. WHERE TWO FLOOR FINISHES MEET AT A DOORWAY, THE TRANSITION MUST OCCUR ON THE CENTERLINE OF THE DOOR IN ITS CLOSED POSITION.
13. EXTEND FLOOR FINISH UNDER OPEN-BOTTOM AND RAISED BOTTOM OBSTRUCTIONS. EXTEND FINISH INTO CLOSETS AND ALCOVE AREAS AS INDICATED, UNLESS ANOTHER FINISH IS INDICATED FOR THAT AREA.
14. APPLY RUBBER BASE WHERE SCHEDULED TO WALLS, COLUMNS AND OTHER PERMANENT FIXTURES IN ROOMS OR AREAS WHERE SPECIFIED. INSTALL BASE IN AS LONG LENGTHS AS PRACTICAL. TIGHTLY BOND TO BACKING THROUGHOUT THE LENGTH AND HEIGHT OF EACH PIECE, WITH CONTINUOUS CONTACT AT VERTICAL AND HORIZONTAL SURFACES. RUBBER CORNERS TO BE PRE-MOLDED, TYPICAL THROUGHOUT .
15. PRIOR TO OCCUPANCY, THE CONTRACTOR SHALL CLEAN ALL FINISHES OF DUST, DEBRIS, LOOSE CONSTRUCTION MATERIALS & EQUIPMENT.
16. MAINTENANCE MATERIALS: DELIVER USEABLE SCRAPS OF CARPET, VINYL TILE, AND OTHER FINISH MATERIALS TO OWNER'S DESIGNATED STORAGE SPACE, PROPERLY PACKAGED (PAPER WRAPPED) AND IDENTIFIED.
17. ALL EXPOSED DUCTWORK TO BE PAINTED BY D
18. TYPICAL THROUGHOUT - HOLLOW METAL FRAMES TO BE PAINTED PNT-2.
19. PROVIDE TRANSITION STRIPS, AS REQUIRED, AT INTERSECTION OF DIFFERENT FLOORING MATERIALS.

## PAINT

1. ALL PAINT TO BE APPLIED IN ACCORDANCE WITH MANUFACTURERS INSTRUCTIONS. SAND LIGHTLY BETWEEN COATS TO ACHIEVE REQUIRED FINISH. ALLOW EACH COAT OF FINISH TO DRY BEFORE THE FOLLOWING COAT IS APPLIED, UNLESS DIRECTED OTHERWISE BY MANUFACTURER. FILL KNICKS, GOUGES AND OTHER IMPERFECTIONS OF SURFACES WITH LATEX FILLER AND SAND SMOOTH UNTIL FLUSH WITH SURFACE.
2. MATERIALS TO ARRIVE AT JOBSITE IN ORIGINAL, NEW, UNOPENED CONTAINERS BEARING THE MANUFACTURER'S NAME, TRADE NAME AND LABEL ANALYSES. STORE ON SITE IN STRICT ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.
3. ALL PAINTING TO BE DONE UNDER FINAL LIGHTING CONDITIONS.
4. FINISHED PAINTED SURFACES SHALL BE OF UNIFORM COLOR, APPEARANCE AND FINISH WITHOUT DRIPS, RUNS OR SMUDGES.
5. WHERE GRILLES OR DIFFUSERS OCCUR IN CEILING OR WALL, CONFIRM WITH PROFESSIONAL PRIOR TO PAINTING TO MATCH EXISTING ADJACENT SURFACES.
6. REMOVE OR OTHERWISE PROTECT FINISH HARDWARE, ACCESSORIES, PLATES, LIGHTING FIXTURES AND SIMILAR ITEMS BEFORE PAINTING.
7. DO NOT PAINT ANY MOVING PARTS OR OPERATION UNITS, CODE-REQUIRED LABELS AND EQUIPMENT IDENTIFICATIONS.
8. PAINT AREAS BEHIND MOVEABLE SURFACE (E.G. INSIDE CABINETS AND BACKS OF ACCESS PANELS). COORDINATE WITH ARCHITECT PRIOR TO START OF WORK.
9. REPAINT OR REFINISH PAINTED SURFACES DAMAGED BY SUBSEQUENT WORK.
10. ALL EXPOSED NON-GALVANIZED DECK IS TO BE PRIMED AND PAINTED.

## BLEACHER FINISH NOTES

1. EXISTING EXPOSED STADIUM CONCRETE STRUCTURE, INCLUDING ALL RISERS AND TREADS, TO RECEIVE A CONCRETE COATING - REFER TO SPECS FOR REMOVAL OF EXISTING COATING, PREP AND APPLICATION OF NEW COATING
2. APPLY SAFETY PAINT AT NOSING OF ALL CONCRETE STAIRS WITHIN BLEACHERS AS REQUIRED BY CODE, TYPICAL.

## FINISH LEGEND

### FLOOR FINISHES

**CONC**
SEALED CONCRETE

**COAT**
CONCRETE COATING

**EPOXY**
EPOXY

**RB-1**
TARKETT SOLID RUBBER FLOOR TILE

**RAF-1**
REGUPOL AKTIV ROLLED RUBBER FLOORING, 3/8" THICK, COLOR: INTENSE THUNDER GRAY #95102

**RAF-2**
REGUPOL AKTIV ROLLED RUBBER FLOORING, 3/8" THICK, COLOR: STRENGTH RED DEVIL #35105

### BASE FINISHES

**RB**
TARKETT 4" RUBBER COVE BASE; MAX OF 4 COLORS

**EPOXY**
4" EPOXY BASE

### CEILING FINISHES

PNT **EXPOSED**
PAINT EXPOSED CEILING, STRUCTURE AND ALL MEP COMPONENTS

### PLASTIC LAMINATES

**PLAM-1**
CABINETS- WILSONART, COLOR: TBD

**PLAM-2**
COUNTERS- WILSONART, COLOR: TBD

### PAINT

**PNT-1**
SHERWIN WILLIAMS, OVERALL NEUTRAL WAINSCOTTING WALL PAINT. COLOR: (NEUTRAL) TBD

**PNT-2**
SHERWIN WILLIAMS, OVERALL NEUTRAL FIELD WALL PAINT. COLOR: SW 7637 OYSTER WHITE

**PNT-3**
SHERWIN WILLIAMS, ACCENT WALL PAINT, COLOR: (RED) TBD

**PNT-4**
SHERWIN WILLIAMS, EXPOSED CEILING & STRUCTURE PAINT, COLOR: (NEUTRAL) TBD

**PNT-5**
SHERWIN WILLIAMS, DOOR & WINDOW TRIM PAINT, COLOR: (BLACK) TBD

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School District of Lancaster
Together We Can!

CONSULTANT:

RENOVATIONS
J.P. MCCASKEY STADIUM
PROJECTS
SCHOOL DISTRICT OF LANCASTER
445 N RESERVOIR ST, LANCASTER, PA 17602

ISSUE DATES
DATE: 01/06/2025
DESCRIPTION: BID DOCUMENTS

PROJ # : 24-SOL-03 DRAWN BY : DRW

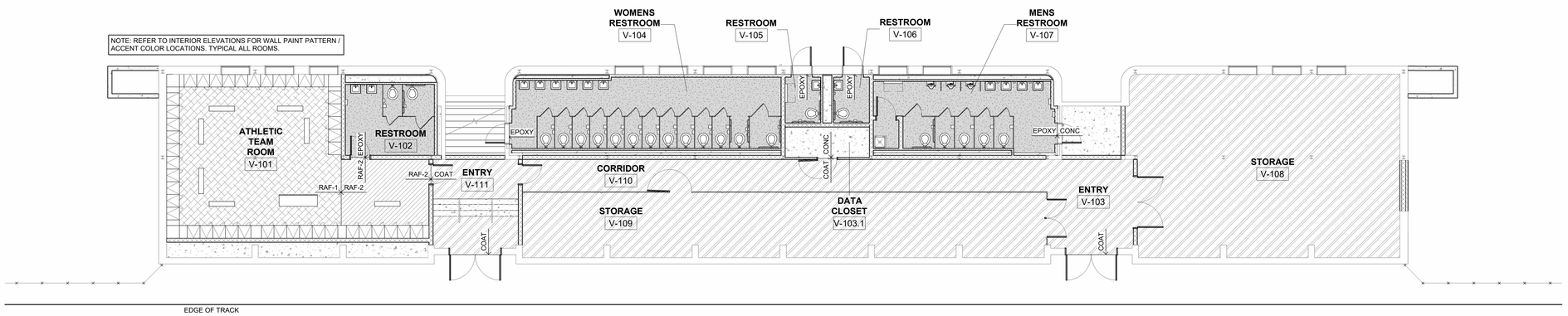
SHEET TITLE:
FINISH SCHEDULE

SHEET NUMBER:
A10.1

BID DOCUMENTS

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NOTE: REFER TO INTERIOR ELEVATIONS FOR WALL PAINT PATTERN / ACCENT COLOR LOCATIONS. TYPICAL ALL ROOMS.

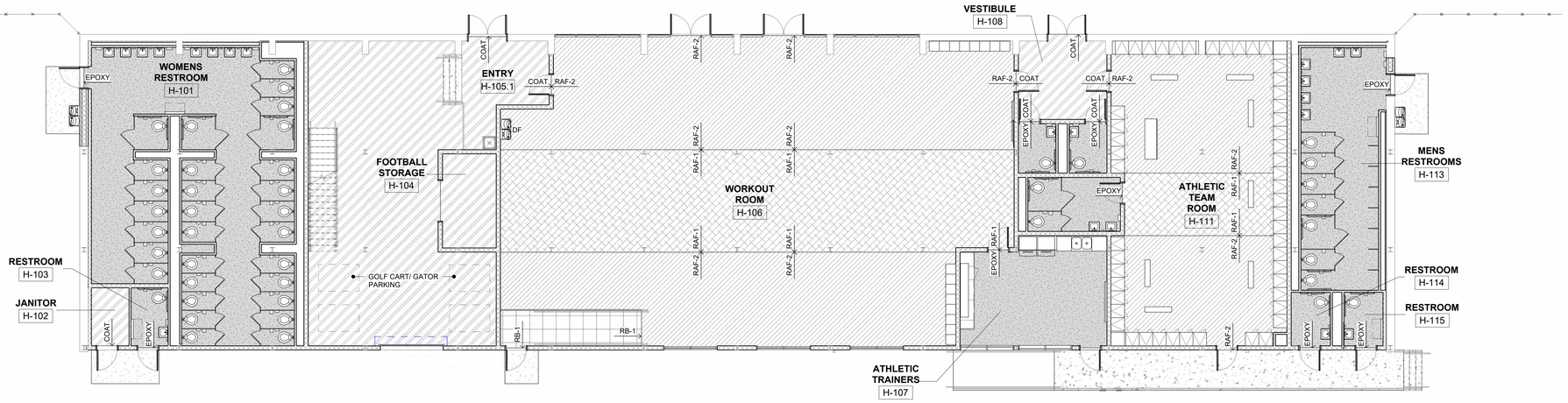



## 1 VISITOR FIRST FLOOR FINISH PLAN
A10.2 1/8" = 1'-0"




NOTE: REFER TO INTERIOR ELEVATIONS FOR WALL PAINT PATTERN / ACCENT COLOR LOCATIONS. TYPICAL ALL ROOMS.

EDGE OF TRACK




## 2 HOME FIRST FLOOR FINISH PLAN
A10.2 1/8" = 1'-0"




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445 N RESERVOIR ST, LANCASTER, PA 17602

ISSUE DATES
DATE: 01/06/2025
DESCRIPTION: BID DOCUMENTS

PROJ # : 24-SDL-03 DRAWN BY : DRW

SHEET TITLE:

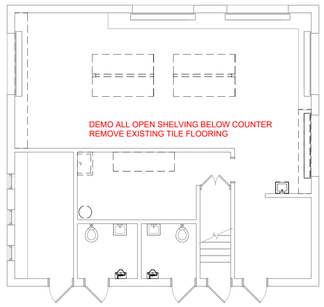
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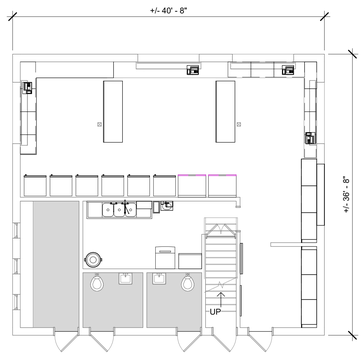
**A10.2**

**BID DOCUMENTS**

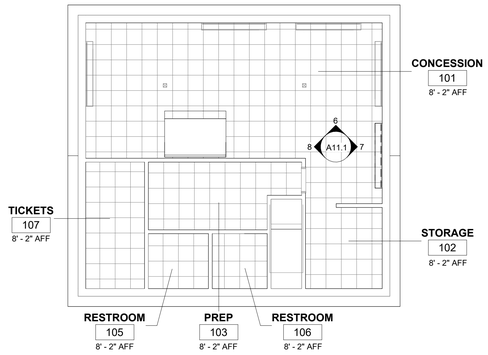
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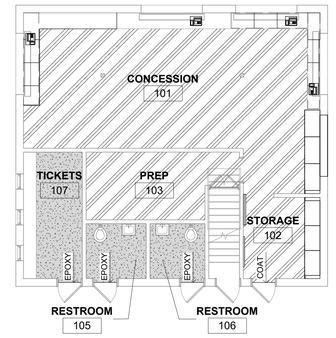

## 1 FIRST FLOOR PLAN - DEMOLITION
A11.1 1/8" = 1'-0"



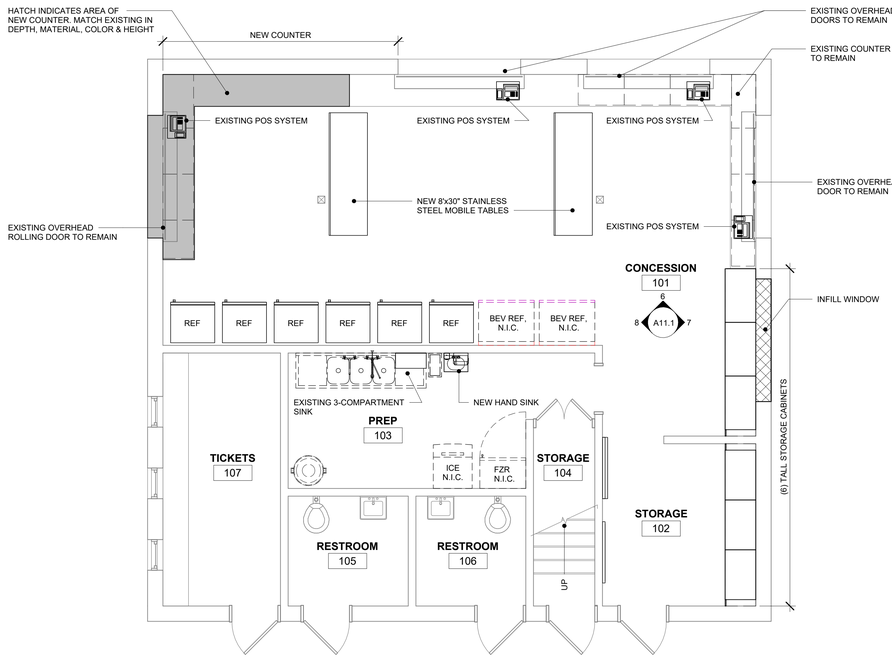

## 2 FIRST FLOOR PLAN
A11.1 1/8" = 1'-0"




## 3 FIRST FLOOR REFLECTED CEILING PLAN
A11.1 1/8" = 1'-0"




## 4 FINISH PLAN
A11.1 1/8" = 1'-0"




## 5 ENLARGED FLOOR PLAN
A11.1 1/4" = 1'-0"

# PAINT

1. ALL PAINT TO BE APPLIED IN ACCORDANCE WITH MANUFACTURERS INSTRUCTIONS. SAND LIGHTLY BETWEEN COATS TO ACHIEVE REQUIRED FINISH. ALLOW EACH COAT OF FINISH TO DRY BEFORE THE FOLLOWING COAT IS APPLIED, UNLESS DIRECTED OTHERWISE BY MANUFACTURER. FILL KNICKS, GOUGES AND OTHER IMPERFECTIONS OF SURFACES WITH LATEX FILLER AND SAND SMOOTH UNTIL FLUSH WITH SURFACE.
2. MATERIALS TO ARRIVE AT JOBSITE IN ORIGINAL, NEW, UNOPENED CONTAINERS BEARING THE MANUFACTURER'S NAME, TRADE NAME AND LEBEL ANALYSES. STORE ON SITE IN STRICT ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.
3. ALL PAINTING TO BE DONE UNDER FINAL LIGHTING CONDITIONS.
4. FINISHED PAINTED SURFACES SHALL BE OF UNIFORM COLOR, APPEARANCE AND FINISH WITHOUT DRIPS, RUNS OR SMUDGES.
5. WHERE GRILLES OR DIFFUSERS OCCUR IN CEILING OR WALL, CONFIRM WITH PROFESSIONAL PRIOR TO PAINTING TO MATCH EXISTING ADJACENT SURFACES.
6. REMOVE OR OTHERWISE PROTECT FINISH HARDWARE, ACCESSORIES, PLATES, LIGHTING FIXTURES AND SIMILAR ITEMS BEFORE PAINTING.
7. DO NOT PAINT ANY MOVING PARTS OR OPERATION UNITS, CODE-REQUIRED LABELS AND EQUIPMENT IDENTIFICATIONS.
8. PAINT AREAS BEHIND MOVEABLE SURFACE (E.G. INSIDE CABINETS AND BACKS OF ACCESS PANELS). COORDINATE WITH ARCHITECT PRIOR TO START OF WORK.
9. REPAINT OR REFINISH PAINTED SURFACES DAMAGED BY SUBSEQUENT WORK.
10. ALL EXPOSED NON-GALVANIZED DECK IS TO BE PRIMED AND PAINTED.

# FINISH LEGEND

## FLOOR FINISHES

**EPOXY**
EPOXY

**COAT**
CONCRETE COATING

## BASE FINISHES

**RB**
JOHNSONITE 4" RUBBER COVE BASE; COLOR: TBD

**EPOXY**
4" EPOXY BASE

## CEILING FINISHES

**ACT**
ACOUSTIC CEILING TILE; REFER TO SPECIFICATION FOR PRODUCT TYPES AND SPECIFIC LOCATIONS.

## PLASTIC LAMINATES

**PLAM-1**
CABINETS- WILSONART, COLOR: TBD

## PAINT

**PNT-6**
SHERWIN WILLIAMS, OVERALL NEUTRAL FIELD WALL PAINT. COLOR: SW 7637 OYSTER WHITE

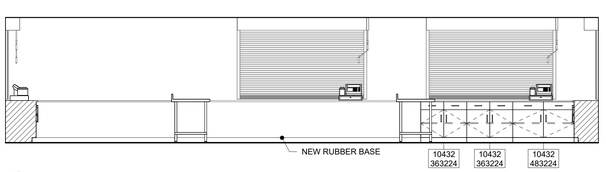
**PNT-7**
SHERWIN WILLIAMS, DOOR & WINDOW TRIM PAINT, COLOR: TBD

# GENERAL FINISH NOTES

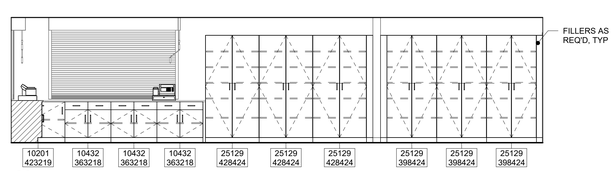
1. CONTRACTOR SHALL FLASH AT DOORS TO ALLOW FOR A LEVEL FLOOR FINISH BETWEEN CONC AND ADJACENT FINISHES SUCH AS EPOXY AND EXISTING FLOORING THAT WILL REMAIN.
2. ALL EXPOSED STEEL TO BE PAINTED FINISH. VERIFY COLOR IN FIELD WITH OWNER AND ARCHITECT.
3. ALL COLORS TO BE CONFIRMED DURING THE SUBMITTAL PROCESS.
4. ALL PAINT COLORS ARE PLACE-HOLDERS. EXACT COLOR SELECTIONS WILL BE CONFIRMED DURING THE SUBMITTAL PROCESS WITH DRAWDOWNS.
5. SUBMIT SAMPLES OF ALL SPECIFIED FINISHES AND COLORS FOR ARCHITECT'S APPROVAL PRIOR TO EXECUTION OF WORK.
6. ARCHITECT SHALL INTERPRET THE AESTHETIC MATCH OF THE CONTROL SAMPLES THEY POSSESS, AND THEIR ACCEPTANCE OR REJECTION OF THE SAMPLES OFFERED IS FINAL.
7. STARTING OF FINISH WORK SHALL INDICATE APPLICATOR'S ACCEPTANCE OF SUBSTRATE.
8. ENSURE ALL SURFACES TO RECEIVE FINISH ARE CLEAN, TRUE AND FREE OF IRREGULARITIES. DO NOT PROCEED WITH WORK UNTIL UNSATISFACTORY CONDITIONS HAVE BEEN CORRECTED.
9. CONCRETE SLAB TO BE FLASH PATCHED AS REQUIRED TO RECEIVE NEW FLOOR FINISH.
10. UPON RECEIPT FROM MANUFACTURER, THE INSTALLER SHALL INSPECT ALL MATERIAL FOR DEFECTS, SHIPPING DAMAGE, FLAWS, CORRECT COLOR AND PATTERN. DAMAGED OR INCORRECT MATERIALS SHALL BE SENT BACK TO THE MANUFACTURER FOR IMMEDIATE REPLACEMENT.
11. WHERE TWO FLOOR FINISHES MEET AT A DOORWAY, THE TRANSITION MUST OCCUR ON THE CENTERLINE OF THE DOOR IN ITS CLOSED POSITION.
12. EXTEND FLOOR FINISH UNDER OPEN-BOTTOM AND RAISED BOTTOM OBSTRUCTIONS. EXTEND FINISH INTO CLOSETS AND ALCOVE AREAS AS INDICATED, UNLESS ANOTHER FINISH IS INDICATED FOR THAT AREA.
13. APPLY RUBBER BASE WHERE SCHEDULED TO WALLS, COLUMNS AND OTHER PERMANENT FIXTURES IN ROOMS OR AREAS WHERE SPECIFIED. INSTALL BASE IN AS LONG LENGTHS AS PRACTICAL. TIGHTLY BOND TO BACKING THROUGHOUT THE LENGTH AND HEIGHT OF EACH PIECE, WITH CONTINUOUS CONTACT AT VERTICAL AND HORIZONTAL SURFACES. RUBBER CORNERS TO BE PRE-MOLDED, TYPICAL THROUGHOUT .
14. PRIOR TO OCCUPANCY, THE CONTRACTOR SHALL CLEAN ALL FINISHES OF DUST, DEBRIS, LOOSE CONSTRUCTION MATERIALS & EQUIPMENT.
15. MAINTENANCE MATERIALS: DELIVER USEABLE SCRAPS OF CARPET, VINYL TILE, AND OTHER FINISH MATERIALS TO OWNER'S DESIGNATED STORAGE SPACE, PROPERLY PACKAGED (PAPER WRAPPED) AND IDENTIFIED.
16. ALL EXPOSED DUCTWORK TO BE PAINTED BY G.C.
17. TYPICAL THROUGHOUT - HOLLOW METAL FRAMES TO BE PAINTED PNT-7
18. PROVIDE TRANSITION STRIPS, AS REQUIRED, AT INTERSECTION OF DIFFERENT FLOORING MATERIALS.

# ACOUSTIC CEILING INSTALLTION

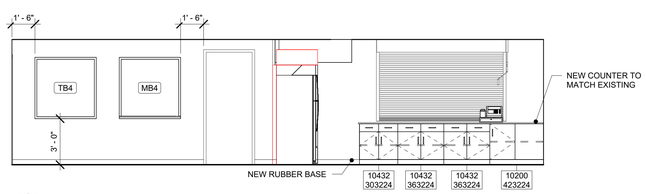
1. CEILING SHALL BE TRUE, FLAT,STRAIGHT AND REGULAR. PROVIDE STABILIZER BARS AS REQUIRED TO DISTRIBUTE LOAN EQUALLY OVER TWO OR MORE RUNNERS.
2. LEVEL CEILING TO BE WITHIN 1/8" IN 12 FEET IN ANY DIRECTION. LEVEL WITH HANGER WARE. TAUT AND PLUMB WITHOUT KNICKING OR BENDING HANGER WIRES. CEILING HEIGHT SHALL MATCH EXISTING UNLESS OTHERWISE NOTED.
3. INTALL MAX. LENGTHS AND EDGE MOULDING AT INTERSECTION OF CEILING AND VERTICAL SURFACE. MITER ALL CORNERS.
4. LAY DIRECTIONAL PATTERN UNITS IN SINGLE DIRECTION.
5. ALL FIXTURE TRIM (LIGHTING, SPEAKER, HVAC GRILLES, ETC.) SHALL BE METAL AND PAINTED TO MATCH ADJACENT CEILING FINISH. PLASTIC TRIM IS NOT ACCEPTABLE UNLESS APPROVED BY PROFESSIONAL.




## 6 INTERIOR ELEVATION
A11.1 1/4" = 1'-0"
101 CONCESSION




## 7 INTERIOR ELEVATION
A11.1 1/4" = 1'-0"
101 CONCESSION
102 STORAGE




## 8 INTERIOR ELEVATION
A11.1 1/4" = 1'-0"
101 CONCESSION

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CONSULTANT:

RENOVATIONS
J.P. MCCASKEY STADIUM
PROJECTS
SCHOOL DISTRICT OF LANCASTER
445 N RESIVIOR ST., LANCASTER, PA 17602

ISSUE DATES
DATE: 01/06/2024
DESCRIPTION: BID DOCUMENTS

PROJ # : Project Number DRAWN BY : SAB

SHEET TITLE:
**CONCESSION STAND FLOOR PLANS**

SHEET NUMBER:
**A11.1**

**BID DOCUMENTS**

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# GENERAL STRUCTURAL NOTES

**GENERAL STRUCTURAL NOTES:**

1. The structural drawings shall be used in conjunction with the drawings of all other disciplines and the specifications. The contractor shall verify the requirements of other trades as to sleeves, chases, hangers, inserts, anchors, holes and other items to be placed or set in the structural work.

2. The contractor shall be responsible for complying with all safety precautions and regulations during the work. The engineer will not advise on nor issue direction as to safety precautions and programs.

3. The structural drawings herein represent the finished structure. The contractor shall provide all temporary shoring, guying, and bracing required to erect and hold the structure in proper alignment until all structural work and connections have been completed. The investigation, design, safety, adequacy and inspection of erection bracing, shoring, temporary supports, etc. is the sole responsibility of the contractor.

4. The engineer shall not be responsible for the methods, techniques and sequences of procedures to perform the work. The supervision of the work is the sole responsibility of the contractor.

5. Drawings indicate general and typical details of construction. Where conditions are not specifically shown, similar details of construction shall be used, subject to approval by the engineer.

6. All structural systems which are to be composed of components to be field erected shall be supervised by the supplier during manufacturing, delivery, handling, storage and erection in accordance with the supplier's instructions and requirements.

7. Contractor shall provide all temporary supports required for stability and for resistance to wind and seismic forces until the structure is capable of providing this support. Contractor to refer to A.I.S.C. steel design guide #10, "Erection bracing of low-rise structural steel frames" and to the National Concrete Masonry Association technical guide #03-04C, "Bracing concrete masonry walls under construction".

8. Loading applied to the structure during the process of construction shall not exceed the safe load-carrying capacity of the structural members. The live loadings used in the design of this structure are indicated in the "Design Criteria Notes". Do not apply any construction loads until structural framing is properly connected together and until all temporary bracing is in place.

9. All ASTM and other references are per the latest editions of these standards, unless otherwise noted.

10. In accordance with Section 1704 of IBC 2018, special inspections will be required for this project. Special inspections shall be performed in accordance with the "Schedule of Special Inspections". All fabricators shall satisfy the "Exception" noted in section 1704.2.5.1, which requires the fabricator to maintain an agreement with an approved independent inspection or quality control agency. The contractor shall notify the special inspector at least 48 hours in advance for work that will require inspection or testing

11. Unless otherwise indicated, all items noted to be demolished shall become the contractor's property and be removed from the site.

12. Contractors shall visit the site prior to bid to ascertain conditions which may adversely affect the work or cost thereof.

13. Dimensions shown on the architectural drawings shall govern over dimensions shown on the structural drawings. The contractor shall generate an RFI regarding discrepancies prior to construction.

**SHOP DRAWING NOTES:**

1. Shop drawings and other items shall be submitted to the engineer for review prior to fabrication. The engineer's review is to be for conformance with the design concept and general compliance with the relevant contract documents. The engineer's review does not relieve the contractor of the sole responsibility to review, check and coordinate the shop drawings prior to submission. The contractor remains solely responsible for errors and omissions associated with the preparation of shop drawings as they pertain to member sizes, details, dimensions, etc.

2. Submit shop drawings as per note #3 below. In no case shall reproduction of the contract drawings be used as shop drawings. As a minimum, submit the following items for review:
   A. Temporary shoring shop drawings and delegated design submittal.
   B. Concrete mix design(s).
   C. Reinforcing steel shop drawings.
   D. Structural steel shop drawings.
   E. Metal decking shop drawings.
   F. Pre-fabricated walkway, ramp, seating and press-box shop drawings and delegated design submittal.
   G. Metal stair and guardrail shop drawings and delegated design submittals.

   Other submittals may be required per the "Schedule of Special Inspections" or the separate notes contained herein.

3. Contractor shall submit electronic shop drawings. Any additional shop drawings submitted will not be reviewed or returned.

4. Contractor shall submit a schedule indicating when each set of shop drawings will be submitted to the architect/engineer prior to any shop drawing submission.

5. All notes or questions from the detailer to the engineer or architect shall be clouded, numbered and with the text "Arch/Engr. review." Any notes or questions from the detailer to the contractor shall be clouded, numbered and with the text "G.C. Review."

6. All shop drawings shall be reviewed by the contractor before submittal to the engineer or architect. Shop drawings will be rejected if the contractor has not reviewed the shop drawings prior to submittal to engineer or architect.

7. The contractor shall produce all shop drawings. Copying, scanning and/or reusing any portion of the structural drawings as part of the shop drawings submittal is not permitted. Submittals that include reproduced portions of the structural drawings will be rejected without review.

**DESIGN CRITERIA NOTES:**

1. The intended design standards and/or criteria are as follows:
   General: Uniform statewide bldg. code (IBC 2018, Chapter 16 as amended)
   Concrete: ACI 318-14
   Masonry: TMS 402/602-16
   Structural Steel: ANSI/AISC 360-16 A.S.D. (15TH Edition)
   Metal Deck: SDI-17
   Foundations: Geotechnical Investigation and Report completed by XXX

2. Design gravity dead loads used in the design of this structure are as follows (refer to IBC 2018 section 1606):

| | |
|---|---|
| Concrete Risers & Bleachers | 80 PSF |
| First Floors | On-Grade |
| Second Floor (Home Bleacher) | 60 PSF |
| New Press Box (Home Bleacher) | 15,850 LBS. Applied evenly over area of new steel platform. |
| All other | Actual weight |

3. Design gravity live loads used in the design of this structure are as follows (refer to IBC 2018 section 1607):

| | |
|---|---|
| Concrete Risers & Bleachers | 100 PSF |
| New Press Box Roof (Home Bleacher) | 50 PSF |
| New Press Box Floor (Home Bleacher) | 100 PSF |
| Mechanical Spaces (Home Bleacher - Second Floor) | 40 PSF |
| Ramps & Stairs | 100 PSF |
| Slab-On-Grade Corridors | 100 PSF |

4. The structure has been designed as Risk Category III in accordance with IBC 2018 table 1604.5.

5. Design lateral live loads used in the design of this structure, in accordance with Chapters 11 through 31 of ASCE 7-16, are as follows:
   Wind - Ultimate, main system: 113 mph, Exposure B, Iw = 1.0
   Wind - Ultimate, components: 113 mph, Exposure B, Iw = 1.0

6. Design snow loads used in the design of this structure, in accordance with Chapter 7 of ASCE 7-16, are as follows:
   Pg (ground snow load) = 35 PSF, Ce = 1.0, Is = 1.0, Ct = 1.0
   Pf (flat roof) = 35 PSF, Cs = 1.0
   Pm (minimum snow load) = 35 PSF

7. The lateral load resisting system of this building consists of:
   Home Bleachers:
   Perimeter - Unreinforced masonry shear walls
   Visitor Bleachers:
   Perimeter - Unreinforced masonry shear walls
   New Press Box Steel Platform:
   Perimeter - Steel braced-frame bays.

8. This structure has been designed with "safety factors" in accordance with generally accepted principles of structural engineering. The fundamental nature of the "safety factor" is to compensate for uncertainties in the design, fabrication and erection of structural building components. It is intended that "safety factors" be used so that the load carrying capacity of the structure does not fall below the design load and that the building will perform under design load without distress. While the use of "safety factors" implies some excess capacity beyond design load, such excess capacity cannot be adequately predicted and SHALL NOT BE RELIED UPON.

**EXISTING CONSTRUCTION NOTES:**

1. Before proceeding with any work within the existing facility, the contractor shall familiarize himself with existing structural and other conditions. It shall be the contractor's responsibility to provide all necessary bracing, shoring and other safeguards to maintain all parts of the existing work in a safe condition during the process of demolition and construction and to protect from damage those portions of the existing work which are to remain.

2. The contractor shall field verify the dimensions, elevations, etc. necessary for the proper construction and alignment of the new portions of the work to the existing work. The contractor shall make all measurements necessary for fabrication and erection of structural members. Any discrepancy shall be immediately brought to the attention of the engineer.

3. Welding to and within an existing facility presents potential hazards, including:
   A. Fire hazard - due to the existing construction and building contents.
   B. Structural liquefaction - due to welding across the full section of structural steel members.

   Recommendations to prevent these hazards include:
   A. Fire hazard - protect existing combustibles prior to welding. Keep a separate watchman and several fire extinguishers on hand.
   B. Structural liquefaction - weld in small increments. Allow welds to harden before continuing to the next increment.
   C. Do not leave the site until satisfied that no fire hazard exists.

4. Information used in preparing these drawings was taken from drawings prepared by the firm of Henry Y. Shaub & H. Clifford Kreisle Associated Architects, dated March 11th, 1948.

5. The contractor shall be responsible for the design and erection of all shoring necessary to safeguard the existing structure. Any shoring shown is a partial and schematic representation of that required. The contractor shall submit a detailed plan for shoring, bracing and protection of the existing construction. The plan shall include a construction sequence, design calculations, bear the seal of a professional engineer registered in the state of the project and be submitted to the engineer for review prior to beginning the work.

**DEMOLITION NOTES:**

1. The contractor is to obtain and pay for all necessary permits for the demolition and removal work required.

2. Demolition procedures, shoring requirements, sequences, techniques, etc. either given in or implied to by these drawings are suggestions only.

3. Prior to undertaking any demolition work, the contractor shall ascertain, by survey, the existing conditions of the property and the extent of the demolition work involved.

4. The contractor shall perform all demolition work in such a manner as to protect the existing structure and be responsible to properly repair any damage which may occur as a result of his demolition work. If the contractor damaged the existing structure to remain, he shall notify the owner and engineer immediately and for all repair costs, including design and inspection expenses.

5. The contractor shall cease demolition operations and notify the owner and engineer immediately if it appears that the integrity of the structure has been affected by the demolition work.

6. The contractor shall not cut or alter any structural members to remain without written authorization by the engineer or as indicated on the structural drawings.

7. All existing dimensions (distances, elevations, member sizes, etc.) shown on the drawings shall be verified in the field by the contractor.

8. The contractor shall provide a temporary platform to catch debris from slab removal. Do not allow resulting debris to accumulate in the work area. All debris shall be disposed of in a legal manner with as little disturbance to adjacent spaces and occupants as possible.

9. Cutting of existing concrete slabs shall be performed in a neat professional manner. Drill corners and saw cut straight lines around the perimeter of the new opening.

**SUBGRADE PREPARATION NOTES:**

1. All site preparation shall conform to the requirements of IBC 2018 Chapter 18.

2. Within an area a minimum of 5 feet beyond the building limits, excavate a minimum of 4" of existing soil. Remove all organics, pavement, roots, debris and otherwise unsuitable material.

3. The surface of the exposed subgrade shall be inspected by probing or testing to check for pockets of soft or unsuitable material. Excavate unsuitable soil as directed by the geotechnical engineer/testing agency.

4. Proofroll the surface of the exposed subgrade with a loaded tandem axle dump truck. Remove all soils which pump or do not compact properly as directed by the geotechnical engineer/testing agency.

5. Fill all excavated areas with approved controlled fill. Place in 8 inch loose lifts and compact to a minimum of 95% of the maximum dry density in accordance with ASTM D-698.

6. All controlled fill material shall be a select granular material free from all organics or otherwise deleterious material with not more than 20% by weight passing a No. 200 sieve (classified as SC, SM, SP or better in accordance with the unified soil classification system) and with a plasticity index not exceeding 6%.

7. Provide field density tests for each 3,000 s.f. of building area for each lift of controlled fill.

**FOUNDATION NOTES:**

1. All foundation construction shall conform to the requirements of IBC 2018 Chapter 18.

2. All footings have been designed based upon an assumed soil bearing pressure of 3,000 psf. All footings shall bear on undisturbed, firm natural soil or compacted fill. All foundation excavations shall be evaluated by the geotechnical engineer/testing agency prior to pouring foundation concrete.

3. Top of footing elevation shall be as shown on the foundation plan. These elevations are a maximum and shall be lowered as required to obtain the required design bearing pressure or lowered below new or existing utilities per typical details.

4. All foundation concrete shall obtain a 28 day compressive strength of 3,000 psi. All concrete to be permanently exposed to weather shall be air entrained to 5% (+-1%) with an admixture that conforms to ASTM C-260.

5. All concrete work shall conform to the requirements of ACI 301, "Specification for Structural Concrete Buildings". Hot weather concreting shall be in accordance with ACI 305. Cold weather concreting shall be in accordance with ACI 306.

6. All reinforcing steel shall conform to ASTM A-615, Grade 60. Reinforcing shall be detailed and installed per ACI 315 and CRSI Manual of Standard Practice.

7. Unless otherwise noted, the following concrete cover shall be provided for reinforcement.
   A) Concrete cast against and permanently exposed to earth: 3"
   B) Concrete exposed to earth or weather:
   #6 through #18 bars: 2"
   #5 bar, W31 or D31 wire and smaller: 1-1/2"

8. All reinforcing marked continuous (cont.) on the plans and details shall be lapped 36xbar diameters at splices unless otherwise noted.

9. No unbalanced backfilling shall be placed against foundation walls unless walls are securely braced against overturning, either by temporary bracing or by permanent construction.

10. Prior to commencing any foundation work, coordinate work with any existing utilities. Foundations shall be lowered where required to avoid utilities.

11. Unless otherwise noted, the centerlines of column foundations shall be located on column centerlines.

**SLAB ON GRADE NOTES:**

1. Slab-on-grade construction shall conform to the requirements of ACI 301, "Specification for Structural Concrete Buildings" and IBC 2018 Section 1907.

2. Provide concrete slabs as indicated on plans over a 15 mil polyethylene vapor barrier and 4" of porous fill as follows:
   4" slab reinforced with 6x6- W1.4Xw1.4 welded wire fabric and with 4000 psi mix concrete
   Maximum slump for all concrete slabs shall be 5 inches, using type I cement.

3. All welded wire fabric shall be in accordance with ASTM A-1064. Lap adjoining pieces at least one full mesh.

4. All porous fill material shall be a clean granular material with 100% passing a 1-1/2" sieve and no more than 5% passing a no. 4 sieve. Porous fill shall be compacted to 95% max. dry density per ASTM D-698.

5. Slab joints shall be filled with approved material. This should take place as late as possible, preferably 4 to 6 weeks after the slab has been cast. Prior to filling, remove all debris from the slab joints, then fill in accordance with the manufacturer's recommendations as follows:
   Fill with field molded or elastomeric sealant

6. Unless otherwise approved, all welded wire fabric shall be blocked into the position indicated with precast concrete blocks having a compressive strength equal to that of the slab.

7. Walkways and other exterior slabs are not indicated on the structural drawings. See the site plan and architectural drawings for locations, dimensions, elevations, jointing details and finish details. Provide 4" walks reinforced with 6x6 - W1.4xW1.4 WWF unless otherwise noted.

8. Slabs to be permanently exposed to weather shall be air entrained to 5% (+-1%) with an admixture that conforms to ASTM C-260.

9. All concrete work shall conform to the requirements of ACI 301, "Specification for Structural Concrete Buildings". Hot weather concreting shall be in accordance with ACI 305. Cold weather concreting shall be in accordance with ACI 306.

10. In order to avoid concrete shrinkage cracking, the maximum length of slab cast in any one continuous pour is recommended to be less than 100 feet. The maximum spacing of joints shall be 12'.

11. The alternate wires of the welded wire fabric must be precut at the slab contraction joint locations to create a "weakened plane". Without cutting the alternate wires, the strength of the wire will prevent the slab from cracking (separating) at the joint and the slab may begin to crack elsewhere.

12. The use of polypropylene fibers (in lieu of welded wire fabric) is prohibited without the written authorization of the engineer.

13. See the architectural drawings for exact locations of depressed slab areas and drains. Slope slab to drains where shown.

14. Slabs have been designed based on the following criteria:
   Subgrade modulus, K=200 pci (assumed)
   Uniform live loading = 100 psf

15. The finish tolerance of all slabs shall be in accordance with ACI 302, Section 8.4.

16. Slabs shall be constructed in accordance with the following flatness/levelness requirements:

| Slab Category | Specified | Local Minimum |
|---|---|---|
| Straight edged | $F_F$ = 25 , $F_L$ = 20 | $F_F$ = 17 , $F_L$ = 15 |

Floor flatness and levelness tests shall be conducted by the owner in accordance with ASTM E 1155. Results, including acceptance or rejection of the work will be provided to the contractor within 48 hours after data collection. Remedies for out of tolerance work shall be in accordance with the specifications.

**CAST-IN-PLACE CONCRETE NOTES:**

1. Concrete mixes shall be designed per ACI 301, using Portland cement conforming to ASTM C-150 or C-595, aggregate conforming to ASTM C-33, and admixtures conforming to ASTM C-494, C-1017, C-618, C-989 and C-260. Concrete shall be ready-mixed in accordance with ASTM C-94.

2. Concrete shall conform to the following compressive strength, slump and water/cement ratio requirements:

| Concrete | Min. f'c (28 days) | Slump* | W/C ratio |
|---|---|---|---|
| Columns & Piers | 4000 psi | 2" to 4" | .46 |
| Elevated Slabs | 4000 psi | 2" to 4" | .46 |
| Concrete not noted | 4000 psi | 2" to 4" | .50 |
| Foundation | See Fdn. Notes | 2" to 4" | .50 |
| Slabs-on-grade | See "Slab-on-Grade Notes" | | .50 |

*At contractor's option, an approved admixture may be used to produce flowable concrete. Maximum slump shall not exceed 10 inches. The contractor shall submit test results of the proposed concrete mixes along with the manufacturer's technical data for approval prior to pouring concrete.

3. All concrete work shall conform to the requirements of ACI 301, "Specification for Structural Concrete Buildings" and IBC 2018 Chapter 19. Hot weather concreting shall be in accordance with ACI 305. Cold weather concreting shall be in accordance with ACI 306.

4. All reinforcing steel shall conform to ASTM A-615, grade 60. All welding of reinforcing steel shall be in accordance with AWS D1.4. Reinforcing shall be detailed and installed per ACI 315 and CRSI Manual of Standard Practice.

5. All welded wire fabric (W.W.F.) shall conform to ASTM A-1064.

6. All reinforcing steel shall be set and tied in place prior to pouring of concrete, except that vertical dowels for masonry wall reinforcing may be "floated" in place. Do not field bend bars partially embedded in hardened concrete unless specifically indicated or approved by the engineer.

7. Reinforcing steel, including hooks and bends, shall be detailed in accordance with ACI 315. All reinforcing steel indicated as being continuous (cont) shall be lapped with a type 2 lap splice unless otherwise noted.

8. Unless otherwise noted, the following concrete cover shall be provided for reinforcement:
   A) Concrete exposed to earth or weather:
   #6 through #18 bars : 2"
   #5 bar, W31 or D31 wire and smaller : 1-1/2"
   B) Concrete not exposed to earth or weather:
   Walls, elevated slabs : 3/4"
   Beams, piers, and columns : 1-1/2"
   C) Foundation concrete (see "Foundation Notes")

9. Bar supports and holding bars shall be provided for all reinforcing steel to insure minimum concrete cover. Bar supports shall be plastic tipped or stainless steel.

10. All edges of permanently exposed concrete surfaces shall be chamfered 3/4" unless otherwise noted.

11. The contractor shall provide the engineer with documentation that all materials conform to the quality standards specified in IBC 2018.

12. In accordance with IBC 2018, special inspections are required for the concrete work. The owner will hire the special inspector to perform all required special inspections.

13. In order to avoid concrete shrinkage cracking, place concrete slabs in an alternating lane pattern. The maximum length of slab cast in any one continuous pour shall be limited to 80 feet.

14. Formwork shall remain in place until concrete has obtained at least 90% of its 28 day compressive strength. The contractor shall provide all shoring and reshoring.

**MASONRY NOTES:**

1. Masonry construction shall conform to the requirements of the "Building Code Requirements and Specification for Masonry Structures (TMS 402/602-16)", published by The Masonry Society, Longmont, Colorado, and IBC 2018 Chapter 21.

2. Hollow load-bearing masonry units shall conform to ASTM C-90, and be made with normal weight or lightweight aggregate. The minimum prism compressive strength (f'm) shall be 2,500 psi at an age of 28 days, as determined by the unit strength method of ACI 530.1.

3. Fill all bond beams and reinforced cells solidly with grout. Grout shall conform to ASTM C-476 and shall obtain a min. 28 day compressive strength of 2,500 psi.

4. Reinforcing steel shall be in accordance with ASTM A-615, grade 60. Shop fabricate reinforcing bars which are shown to be hooked or bent. Provide a minimum lap of 48 x bar diameters at all splices, unless indicated otherwise.

5. The use of masonry-cement mortar is strictly prohibited. Mortar shall conform to ASTM C-270, type S. All mortar shall meet the "Proportion Specification" of ASTM C-270 and be made with Portland cement/lime (non air-entrained).

6. Unless otherwise indicated, all walls shall be laid in running bond. Bond corners and intersections of load-bearing walls.

7. Provide vertical reinforcing bars of the given size and spacing as indicated. Provide bars at all wall corners, intersections and opening edges. Masonry walls shall be constructed in accordance with the "low-lift" or "high-lift" methods. "High-lift" masonry construction is limited to specially qualified contractors meeting the following minimum requirements:
   A. Successful completion of at least 3 previous projects that utilized "high-lift" wall construction.
   B. Contractor shall submit a detailed "high-lift" wall construction procedure for approval, including the documentation of all personnel who have successfully been trained in "high-lift" masonry construction.

8. Provide rebar dowels from foundations to match vertical reinforcing size and spacing. Dowels shall have standard 90 degree hooks and lap with the first lift of reinforcing.
9. Provide horizontal bond beams with continuous reinforcing as indicated. Discontinue all horizontal reinforcing at control joints except for the bond beams at bearing elevations.

10. Provide standard, galvanized 9 gauge horizontal joint reinforcing at 16" on center in all walls. Provide ladder type joint reinforcing for all concrete masonry. Coordinate brick tie back requirements with the architectural drawings. Unless otherwise noted, stop all horizontal joint reinforcing at control joints.

11. Provide lintels above all wall openings per typical details and schedule. See the architectural drawings for locations of all door and window openings.

12. Provide CMU control joints as indicated on the architectural drawings, with additional joints such that the spacing between joints does not exceed a spacing of 3 x wall height (30 feet maximum). Where beams or lintels bear at CMU control joints, offset and lap the vertical reinforcing as indicated.

13. The masonry contractor shall provide all required temporary wall bracing during construction (see "General Structural Notes").

14. Hot weather masonry work shall be in accordance with ACI 530.1. Cold weather masonry work shall be in accordance with ACI 530.1.

**STRUCTURAL STEEL NOTES:**

1. All structural steel shall conform to the AISC "Manual of Steel Construction" (15th Edition) and IBC 2018 Chapter 22.

2. Unless otherwise noted, all materials shall be in accordance with the following ASTM specifications:

| Member | ASTM | Fy (Min. Strength) |
|---|---|---|
| W and WT | A992 | 50 KSI |
| C and MC | A36/A992 | 36 KSI/50 KSI |
| Angles | A36 | 36 KSI |
| HSS (Rectangle) | A500 (Gr. C) | 50 KSI |
| Plates/shapes | A36/A572 (Gr. 50) | 36 KSI/50 KSI |
| Connection bolts | F3125 (Gr. A325) | 90 KSI ($F_{nt}$) |
| Anchor bolts | F1554 (Gr. 55, Supplement S1) | 55 KSI |
| Threaded rods | A36 | 36 KSI |
| Non-shrink grout | C1107 | 8000 PSI |

3. All connections shall be shear type connections and designed by a professional engineer registered in the state of the project retained by the fabricator as per the beam reactions shown on the drawings and the AISC specifications. The fabricator shall submit schematic connection details, signed and sealed connection design calculations and a letter prepared by the connection design engineer stating the shop drawings were reviewed prior to submittal for review & approval. Minimum bolt diameter shall be 3/4". Unless otherwise noted all bolts shall be shear/bearing type bolts and be "snug-tight".

4. All welding shall be in accordance with AWS D1.1 using E70XX electrodes. Unless otherwise noted, provide cont. min. sized fillet welds per AISC requirements. All filler material shall have a minimum yield strength of 70 KSI.

5. Holes in steel shall be drilled or punched. All slotted holes shall be provided with smooth edges. Burning of holes and torch cutting at the site is not permitted.

6. Unless otherwise noted, all structural steel permanently exposed to view shall be shop painted with one coat of SSPC 15-68, type 1 (red oxide) paint.

7. The structural steel erector shall provide all temporary guying and bracing (see General Structural Notes).

8. Columns, anchor bolts, base plates, etc. have been designed for the final completed condition and have not been investigated for potential loadings encountered during steel erection and construction. Any investigation of the columns, anchor bolts, base plates, etc. for adequacy during the steel erection and construction process is the sole responsibility of the contractor.

9. Unless otherwise noted, all structural steel permanently exposed to the weather, including all lintels in exterior walls, shall be hot-dipped galvanized in accordance with ASTM A153.

## ABBREVIATIONS

| | |
|---|---|
| @ | AT |
| ø | DIAMETER |
| 2X | TWO BY |
| (4) | QUANTITY OF 4 |
| A.B. | ANCHOR BOLT |
| A.P. | ANCHOR POINT |
| ADD'L. | ADDITIONAL |
| ADJ. | ADJACENT |
| AISC | AMERICAN INSTITUTE OF STEEL CONSTRUCTION |
| AL. | ALUMINUM |
| ARCH. | ARCHITECT/ARCHITECTURAL |
| ASTM | AMERICAN SOCIETY FOR TESTING & MATERIALS |
| AWS | AMERICAN WELDING SOCIETY |
| BCX | BOTTOM CHORD EXTENSION |
| BEL. | BELOW |
| BLKG. | BLOCKING |
| BM. | BEAM |
| BOT. | BOTTOM |
| B.O. | BOTTOM OF |
| BTWN. | BETWEEN |
| C | CHANNEL |
| CFSF | COLD-FORMED STEEL FRAMING |
| CL | CENTER/COLUMN LINE |
| CLR. | CLEAR |
| C.J. | CONTROL/CONSTRUCTION JOINT |
| CMU | CONCRETE MASONRY UNIT |
| COL. | COLUMN |
| CONC. | CONCRETE |
| CONN. | CONNECTION |
| CONT. | CONTINUOUS |
| CONTR. | CONTRACTOR |
| COORD. | COORDINATE |
| DBL. | DOUBLE |
| DET. | DETAIL |
| DN. | DOWN |
| DWL. | DOWEL |
| DWG. | DRAWING |
| EA. | EACH |
| E.F. | EACH FACE |
| ELEV. | ELEVATION |
| EQ. | EQUAL |
| E.S. | EACH SIDE |
| E.W. | EACH WAY |
| EX. | EXISTING |
| EXP. | EXPANSION |
| FLG. | FLANGE |
| FLR. | FLOOR |
| FDN. | FOUNDATION |
| F.O. | FACE OF |
| F.S. | FAR SIDE |
| FTG. | FOOTING |
| GALV. | GALVANIZED |
| G.C. | GENERAL CONTRACTOR |
| HK. | HOOK |
| HGR. | HANGER |
| HSS | HOLLOW STRUCTURAL SECTION |
| HORIZ. | HORIZONTAL |
| HT. | HEIGHT |
| INT. | INTERIOR |
| JST. | JOIST |
| JT. | JOINT |
| K | KIPS |
| L | ANGLE |
| (LLH) | LONG LEG HORIZONTAL |
| (LLV) | LONG LEG VERTICAL |
| LOC. | LOCATION |
| LG. | LONG |
| L.R.F.D. | LOAD & RESISTANCE FACTOR DESIGN |
| LSL | LAMINATED STRAND LUMBER |
| LVL | LAMINATED VENEER LUMBER |
| M.A. | MASONRY ANCHOR |
| MAX. | MAXIMUM |
| MIN. | MINIMUM/MINIMIZE |
| MANF. | MANUFACTURER |
| MECH. | MECHANICAL |
| M.O. | MASONRY OPENING |
| MTL. | METAL |
| (N) | NEW |
| N.S. | NEAR SIDE |
| N.S.G. | NON-SHRINK GROUT |
| O.C. | ON CENTER |
| OPN'G. | OPENING |
| OPP. | OPPOSITE |
| P.C. | PRE-CAST |
| PL | PLATE |
| PLYWD. | PLYWOOD |
| PMF | PRE-MOLDED FILLER |
| PSL | PARALLEL STRAND LUMBER |
| P.T. | PRESSURE TREATED |
| R/C | REINFORCED CONCRETE |
| REINF. | REINFORCING |
| REQ'D. | REQUIRED |
| RTU | ROOF TOP UNIT |
| SCH. | SCHEDULE |
| SECT. | SECTION |
| SF | STRIP FOOTING |
| SHT'G. | SHEATHING |
| SIM. | SIMILAR |
| SL | SLOPE |
| S.O.G. | SLAB-ON-GRADE |
| S.S. | STAINLESS STEEL |
| STL. | STEEL |
| SQ. | SQUARE |
| T&B | TOP AND BOTTOM |
| TCX | TOP CHORD EXTENSION |
| THK. | THICK |
| TJI | TRUSS JOIST I-SHAPED JOISTS |
| T.O. | TOP OF |
| TYP. | TYPICAL |
| U.N.O. | UNLESS NOTED OTHERWISE |
| VERT. | VERTICAL |
| V.L.D. | VERTICAL LEG DOWN |
| V.I.F. | VERIFY IN FIELD |
| WD. | WOOD |
| W/ | WITH |
| W/O | WITHOUT |
| W.P. | WORK POINT |
| W.R.T. | WITH RESPECT TO |
| W.W.F. | WELDED WIRE FABRIC |
| WF | WIDE FLANGE BEAM |
| W | WIDE FLANGE BEAM |
| X | CROSS |

## SYMBOL KEY

CMU
BRICK
CONCRETE
WOOD ELEVATION
WOOD SECTION
STEEL
GRATING
EARTH
CRUSHED STONE/ BUILDING STONE
ENGINEERED WOOD PRODUCT

## STRUCTURAL DRAWING LIST



| | |
|---|---|
| S0.0 | GENERAL STRUCTURAL NOTES |
| S0.1 | GENERAL STRUCTURAL NOTES & SCHEDULES |
| S0.2 | SCHEDULE OF SPECIAL INSPECTIONS |
| S1.0 | FOUNDATION PLANS |
| S1.1 | FRAMING PLANS |
| S1.2 | CONCRETE RESTORATION WORK - VISITOR BLEACHER |
| S1.3 | CONCRETE RESTORATION WORK - HOME BLEACHER |
| S2.0 | SECTION DETAILS |
| S2.1 | SECTION DETAILS |
| S2.2 | SECTION DETAILS |
| S2.3 | SECTION DETAILS |
| S3.0 | TYPICAL DETAILS |
| S3.1 | TYPICAL DETAILS |




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CONSULTANT:
JBA Joseph Barbato Associates
STRUCTURAL ENGINEERS - ACHIEVING A HIGHER LEVEL
100 Chadds Ford Professional Center
6 Dickinson Drive, Suite 103
Chadds Ford, PA 19317-9688
phone: 610-558-8050
WWW.JBarbato.com



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ADDITIONS & RENOVATIONS TO:
J.P. MCCASKEY STADIUM
PROJECTS
SCHOOL DISTRICT OF LANCASTER
445 N RESERVOIR ST, LANCASTER, PA 17602

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GENERAL STRUCTURAL NOTES

SHEET NUMBER:
S0.0

BID DOCUMENTS

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# GENERAL STRUCTURAL NOTES

10. Protective coatings damaged during the transporting, erecting and field welding processes shall be repaired in the field to match the shop applied coating.

11. Finish welds shall be ground smooth and free of burrs.

12. Finished galvanized surfaces shall be smooth and free of galvanized paint bead build up from multiple layer applications.

13. The Owner will hire an independent testing agency to provide special inspections of bolting, welding and other items in accordance with IBC 2018, Section 1704.

14. Provide angle frames at all floor and roof openings and mechanical rooftop units per typical details on sheet S3.1.

**COMPOSITE DECKING SYSTEM NOTES:**

1. The floor decking of this building has been designed in accordance with the AISC allowable stress design specifications for unshored, partial composite construction.

2. All composite steel decking shall be:
   A. Type 2", 20 gauge, as manufactured by Vulcraft, or approved equal.
   B. Designed in accordance with the composite steel floor deck specifications of the Steel Deck Institute (SDI).
   C. Fabricated from steel sheet conforming to ASTM A1008 or A653 (or equal) having a minimum yield strength of 33 KSI.
   D. Galvanized by the hot-dip process conforming to ASTM A653 class G60 or G90.
   E. Erected in accordance with SDI specifications. Anchor decking as indicated. Minimum bearing of the deck shall be 1-1/2" unless otherwise noted.
   F. Welded in accordance with AWS D1.4.

3. Provide steel decking accessories, such as closures, pour stops and fillers as indicated. Accessories shall be 20 gauge unless otherwise noted, and conform to items 2.B thru 2.F above.

4. All concrete decking shall be:
   A. Normal weight with a 28 day compressive strength, f'c equal to 4,000 psi (unit weight = 145 pcf). Total slab thickness from underside of metal deck to top of finished slab surface shall be as indicated on the drawings.
   B. Reinforced with one layer of 6x6-W1.4x1.4 welded wire fabric supported on chairs so it is located 1" clear from the top of the slab.
   C. In accordance with ACI 318 and 301 and have a maximum slump of 4 inches. Admixtures containing chlorides are prohibited.

**METAL STAIR & GUARDRAIL NOTES:**

1. Steel Stair Design Live Loads: Engineer, fabricate, and install steel stairs to withstand the following structural loads without exceeding the allowable design working stress of the materials involved, including anchors and connections. Apply each load to produce the maximum stress in each component of steel stairs.
   a. Treads of Steel Stairs: Capable of withstanding a uniform load of 100 lbf per sq. ft. or a concentrated load of 300 lbf on an area of 4 sq. inches located in the center of the tread, whichever produces greater stress.
   b. Platforms of Steel Stairs: Capable of withstanding a uniform load of 100 lbf per sq. ft.
   c. Stair framing: Capable of withstanding stresses resulting from loads specified above as well as stresses resulting from railing system loads.

2. Engineer, fabricate, and install handrails and railing systems to comply with requirements of ASTM A-985 for structural performance based on the following:
   a. Testing performed according to ASTM A-894 and E 935.
   b. Structural computations.

3. Railing System and Handrail Design Live Loads: Engineer, fabricate, and install handrails and railing system to withstand the following structural loads without exceeding the allowable design working stress of the materials involved, including anchors and connections. Apply each load to produce the maximum stress in each off the respective components of each metal fabrication.
   a. Top Rail of Guardrail System: Capable of withstanding the following loads applied as indicated:
      1. Concentrated load of 200 lbs applied at any point and in any direction.
      2. Uniform load of 50 lbs per linear foot applied in any direction.
      3. Concentrated and uniform loads above need not be assumed to act concurrently.
   b. Handrails Not Serving as Top Rails: Capable of withstanding the following loads applied as indicated.
      1. Concentrated load of 200 lbs applied at any point and in any direction.
      2. Uniform load of 50 lbs per linear foot applied in any direction.
      3. Concentrated and uniform loads above need not to be assumed to act concurrently.
   c. Infill Area of Guardrail Systems: Capable of withstanding a horizontal concentrated load of 50 lbs applied to one sq. ft. at any point on the system including panels, intermediate rails, balusters, or other elements composing the infill area.
      1. Above load need not be assumed to act concurrently with loads on top rails of railing system in determining stress on guard.

4. Submit Product data for metal stairs, prefilled metal pan stair treads, non-slip aggregates and nonslip aggregate surface finishes, cast nosings, extruded nosings, steel floor plate, paint products, and grout.

5. Submit Shop drawings detailing fabrication and installation of steel stairs. Include plans, elevations, sections, and details of steel stair and their connections. Show anchorage and accessory items. Provide templates for anchors and bolts specified for installation under other sections. Refer to "Shop Drawing Notes" section for additional requirements.
   a. Include structural analysis data sealed and signed by the qualified professional engineer who was responsible for their preparation.

6. Welding Standards: Comply with applicable provisions of AWS D1.1 "Structural Welding Code-Steel" and AWS D1.3 "Structural Welding Code-Sheet Steel."
   a. Certify that each welder has satisfactorily passed AWS qualification tests for welding processed involved and, if pertinent, has undergone recertification.

**RECOMMENDED UNDERPINNING PROCEDURE NOTES:**

1. Underpinning shall be done by the Contractor.

2. Assumed bottoms and locations and existing footings and walls are shown on plans and details.

3. Sheeting, whalers, struts, and braces shall be installed as excavation progresses.

4. All concrete shall attain a compressive strength of 5000 PSI within 28 days. Use Type III cement. Cure earth section 2 days.

5. Length of underpinning sections is to be +4'-0". Width shown on plans and sections.

6. Underpinning Contractor shall submit for approval a shop drawing showing the proposed sequence and details of operations before beginning work.

7. Each section excavation is to be fully lagged and protected so as not to disturb the soil supporting the adjacent portion of the existing foundation.

8. Each section is to be placed and dry packed before proceeding to the next sequence number. All dry packing is to be done with a non-shrink grout, cured for 2 days.

9. Contractor to shore existing columns prior to excavation of column footings. Submit shoring plan and design calculations which are sealed by a professional engineer. Provide all necessary shoring/sheeting required to protect adjacent construction.

**POST-INSTALLED ANCHOR NOTES:**

1. Except where indicated on the drawings, post-installed anchors shall consist of the following anchor types as provided by HILTI, Inc. Contact HILTI at (800) 879-8000 for product related questions.
   A. Anchorage to concrete
      1. Adhesive anchors for cracked and uncracked concrete use:
         A. Adhesives for use:
            1. HILTI HIT-HY 200 safe set system with HILTI HIT-Z rod per ICC ESR-3187
            2. HILTI HIT-HY 200 safe set system with HILTI hollow drill bit and vacuum with has threaded rod per ICC ESR-3187
         B. Steel elements for use with adhesive:
            1. HILTI HAS-V-36 grade 36 carbon steel rod
            2. HILTI HAS-E-55 grade 55 carbon steel rod
      2. Basis of design includes the following design parameters:
         A. Cracked concrete
         B. Water-saturated concrete
         C. Base material temperature of 23-104 degrees Fahrenheit
         D. Allowable with hammer-drill, hollow drill bit system, and core drilling methods
      3. Medium duty mechanical anchors for cracked and uncracked concrete use:
         A. HILTI KWIK BOLT-TZ2 expansion anchor safe set system with hollow drill bit and vacuum and SI-AT-A22 tool with adaptive torque for applicable sizes per ICC ESR-4266
   B. Rebar doweling into concrete
      1. Adhesive anchors for cracked and uncracked concrete use:
         A. HILTI HIT-HY 200 safe set system with HILTI hollow drill bit and vacuum with continuously deformed rebar per ICC ESR-318
      2. Basis of design includes the following design parameters:
         A. Cracked concrete
         B. Water-saturated concrete
         C. Base material temperature of 23-104 degrees Fahrenheit
         D. Allowable with hammer-drill, hollow drill bit system, and core drilling methods
         E. Current ICC-ES report with approval for development of bar using ACI provisions for embedment depths greater than 20 bar diameters
   C. Anchorage to solid grouted masonry
      1. Adhesive anchors use:
         A. HILTI HIT-HY 270 safe set system with HILTI hollow drill bit and vacuum per ICC ESR-4143
         B. Steel anchor element shall be HILTI has continuously threaded rod or continuously deformed steel rebar
      2. Mechanical anchors use:
         A. HILTI KWIK BOLT-TZ2 expansion anchor per ICC ESR-4561
   D. Anchorage to hollow/multi-wythe masonry
      1. Adhesive anchors use:
         A. HILTI HIT-HY 270 safe set system with HILTI hollow drill bit and vacuum per ICC ESR-4143.
         B. Steel anchor element shall be HILTI has continuously threaded rod or continuously deformed steel rebar.
         C. The appropriate size screen tube shall be used per adhesive manufacturer's printed installation instructions.

2. Anchor capacity used in design shall be based on the technical data published by HILTI or other such method as approved by the structural engineer of record. Substitution requests for alternate products must be approved in writing by the structural engineer of record prior to use. Contractor shall provide calculations that have been sealed by another licensed engineer demonstrating that the substituted product is capable of meeting the performance of the specified product. Substitutions will be evaluated by their having an ICC ESR showing compliance with the relevant building code for seismic uses, load resistance, installation category, and availability of comprehensive installation instructions. Adhesive anchor evaluation will also consider creep, in-service temperature, installation temperature, moisture condition of concrete, and drilling methods.

3. Use of diamond core bit with roughening tool for anchor holes requires approval from engineer of record prior to drilling. Unless otherwise shown in the drawings, all holes shall be drilled perpendicular to the concrete surface.

4. Install anchors per the manufacturer's printed installation instructions, as included in the anchor packaging.

5. Overhead adhesive anchors must be installed using the HILTI Profi Piston Plug System.

6. ACI/CRSI adhesive anchor installer certification is required for all installers of adhesive anchors in horizontal or upwardly inclined orientation. The HILTI Adhesive Anchor Installer Certification Program (HAAICP) is an approved equivalent.

7. The contractor shall arrange an anchor manufacturer's representative to provide onsite installation training for all anchor products specified. The structural engineer of record must receive documented confirmation that all personnel who install anchors are trained prior to the commencement of anchor installation.

8. Anchor capacity is dependent upon spacing between adjacent anchors and proximity of anchors to edge of concrete. Install anchors in accordance with spacing and edge clearances indicated on the drawings.

9. Existing reinforcing bars in the concrete structure may conflict with specific anchor locations. Unless noted on the drawings that the bars can be cut, the contractor shall review the existing structural drawings and shall undertake to locate the position of the reinforcing bars at the locations of the concrete anchors by HILTI PS 1000 or other GPR, X-RAY, chipping or other approved means.

## FOOTING SCHEDULE

| MARK | SIZE | REINFORCEMENT | COMMENTS |
|---|---|---|---|
| F5.0 | 5'-0" x 5'-0" x 1'-0" | (6) #5 E.W.B. | COL. FTG. |
| SF-20 | CONT. 1'-8" x 0'-10" | (3) #5 LONG. & #5 @ 48" O.C TRANSV. | CONT. FTG. |
| SF-24 | CONT. 2'-0" x 1'-0" | (3) #5 LONG. & #5 @ 48" O.C TRANSV. | CONT. FTG. |

**NOTE:** RUN CONTINUOUS WALL. FTG. REINF. THROUGH COLUMN FTGS

## PIER SCHEDULE

| MARK | SIZE | REINFORCEMENT | COMMENTS |
|---|---|---|---|
| P1 | 1'-10" x 1'-10" | (8) #7 VERT. W/ #3 TIES @ 12" O.C. | SEE DETAIL L/S-3.0 |

**NOTE:** PROVIDE (2) ADD'L TIES @ T.O. PIER

## DECK SCHEDULE

| MARK | DEPTH (in.) | GAGE | TYPE | MINIMUM SECTION PROPERTIES | | | | COMMENTS |
|---|---|---|---|---|---|---|---|---|
| | | | | $S_p$ ($in.^3$) | $S_n$ ($in.^3$) | $I_p$ ($in.^4$) | $I_n$ ($in.^4$) | |
| S-1 | 2" | 20 | CANAM LOK-FLOOR COMPOSITE STEEL DECK W/ NORMAL WEIGHT CONC. FILL (4 1/2" TOTAL THICKNESS) W/ W.W.F. 6x6-W1.4xW1.4 | 0.332 | 0.345 | 0.390 | - | MIN. (3) SPANS CONT., GALV. |

## PROJECT LINTEL SCHEDULE (U.N.O. ON PLANS/DETAILS)

| NEW INTERIOR MASONRY WALLS | |
|---|---|
| **MASONRY OPENING** | **LINTEL** |
| 0' < M.O. ≤ 6'-4" (4", 8", 12", 16", 20" CMU) | P.C. 4x8 PER 4" OF WALL THICKNESS (4", 8", 12", 16", 20" CMU) |
| 0' < M.O. ≤ 6'-4" (6" CMU) | P.C. 6x8 |
| 6'-4" < M.O. ≤ 10'-8" | W8x24 + 3/8" CONT. PL x WIDTH OF WALL |
| 10'-8" < M.O. ≤ 16'-0" (6" CMU) | W8x21 + 3/8" CONT. PL x WIDTH OF WALL |
| 10'-8" < M.O. ≤ 16'-0" (8", 12", 16" CMU) | W16x26 + 3/8" CONT. PL x WIDTH OF WALL |
| **NEW EXTERIOR MASONRY WALLS** | |
| **MASONRY OPENING W/ BRICK** | **LINTEL** |
| 0' < M.O. ≤ 6'-4" (4", 8", 12", 16" CMU + BRICK) | P.C. 4x8 OR L5x3 1/2x5/16 LLV PER 4" OF WALL THICKNESS + L5x3 1/2x5/16 LLV LOOSE |
| 6'-4" < M.O. ≤ 10'-8" | W8x24 + 3/8" CONT. PL x WIDTH OF WALL |
| 10'-8" < M.O. ≤ 16'-0" (8", 12", 16" CMU) | W16x26 + 3/8" CONT. PL x WIDTH OF WALL |
| **EXISTING MASONRY WALLS** | |
| **MASONRY OPENING** | **LINTEL** |
| 0' < M.O. ≤ 6'-4" | L5x3 1/2x5/16 LLV PER 4" OF WALL THICKNESS |
| 6'-4" < M.O. ≤ 10'-8" | W8x24 + 3/8" CONT. PL x WIDTH OF WALL |
| 10'-8" < M.O. ≤ 16'-0" | W16x26 + 3/8" CONT. PL x WIDTH OF WALL |

NOTES:
1. ALL STEEL LINTELS IN EXTERIOR WALLS TO BE GALVANIZED.
2. P.C. LINTELS TO BE REINFORCED WITH #3 TOP & #4 BOTTOM U.N.O.
3. PROVIDE MIN. 8" BEARING EACH END OF LINTEL, U.N.O.
4. CONNECT LINTEL TO BUILDING COLUMN IF LESS THAN 16" MASONRY EXISTS BETWEEN MASONRY OPENING & FACE OF COLUMN. USE STEEL ANGLES IN LIEU OF P.C. LINTELS AT THESE LOCATIONS.
5. LINTELS ARE REQUIRED AT OPENINGS OF MORE THAN 12" FOR BRICK-SIZE UNITS AND 24" FOR BLOCK-SIZE UNITS U.N.O. IF LESS THAN 8" OF MASONRY EXISTS BETWEEN ADJACENT OPENINGS THEY SHALL BE CONSIDERED AS ONE SINGLE OPENING.
6. REFER TO G/S3.1 FOR TYPICAL LINTEL DETAILS.


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SEAL:

School District of Lancaster
*Together We Can!*


CONSULTANT:
JBA Joseph Barbato Associates
STRUCTURAL ENGINEERS - ACHIEVING A HIGHER LEVEL
100 Chadds Ford Professional Center
6 Dickinson Drive, Suite 103
Chadds Ford, PA 19317-9688
phone: 610-558-8050
WWW.JBarbato.com


ADDITIONS & RENOVATIONS TO:
J.P. MCCASKEY STADIUM
PROJECTS
SCHOOL DISTRICT OF LANCASTER
445 N RESERVOIR ST, LANCASTER, PA 17602

ISSUE DATES
DATE: 01/08/2025
DESCRIPTION: BID DOCUMENTS

PROJ # : MM2410 DRAWN BY : ESR

SHEET TITLE:
**GENERAL STRUCTURAL NOTES & SCHEDULES**

SHEET NUMBER:
**S0.1**

**BID DOCUMENTS**

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# SCHEDULE OF SPECIAL INSPECTIONS:

SPECIAL INSPECTIONS SHALL BE PROVIDED IN ACCORDANCE WITH THE TABLE BELOW.

**REQUIRED SPECIAL INSPECTIONS AND TESTS OF SOILS:**
**IBC 2018 TABLE 1705.6 & GEOTECHNICAL REPORT**

| TYPE | CONTINUOUS SPECIAL INSPECTION | PERIODIC SPECIAL INSPECTION |
|---|---|---|
| 1. VERIFY MATERIALS BELOW SHALLOW FOUNDATIONS ARE ADEQUATE TO ACHIEVE THE DESIGN BEARING CAPACITY. | — | X |
| 2. VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE REACHED PROPER MATERIAL. | — | X |
| 3. PERFORM CLASSIFICATION AND TESTING OF COMPACTED FILL MATERIALS. | — | X |
| 4. VERIFY USE OF PROPER MATERIALS, DENSITIES AND LIFT THICKNESSES DURING PLACEMENT AND COMPACTION OF COMPACTED FILL. | X | — |
| 5. PRIOR TO PLACEMENT OF COMPACTED FILL, INSPECT SUBGRADE AND VERIFY THAT SITE HAS BEEN PREPARED PROPERLY. | — | X |

**REQUIRED SPECIAL INSPECTIONS AND TESTS OF CONCRETE CONSTRUCTION:**
**IBC 2018 TABLE 1705.3**

| TYPE | CONTINUOUS SPECIAL INSPECTION | PERIODIC SPECIAL INSPECTION | REFERENCED STANDARD | IBC REFERENCE |
|---|---|---|---|---|
| 1. INSPECTION OF REINFORCING STEEL AND PLACEMENT. | — | X | ACI 318 CH. 20, 25.2, 25.3, 26.1–26.6.3 | 1908.4 |
| 2. INSPECT ANCHORS CAST IN CONCRETE. | — | X | ACI 318: 17.8.2 | — |
| 3. INSPECT ANCHORS POST–INSTALLED IN HARDENED CONCRETE MEMBERS.<br>a. ADHESIVE ANCHORS INSTALLED IN HORIZONTALLY OR UPWARDLY INCLINED ORIENTATIONS TO RESIST SUSTAINED TENSION LOADS.<br>b. MECHANICAL ANCHORS AND ADHESIVE ANCHORS NOT DEFINED IN 4.A. | X<br>— | —<br>X | ACI 318: 17.8.2.4<br>ACI 318: 17.8.2 | — |
| 4. VERIFY USE OF REQUIRED DESIGN MIX. | — | X | ACI 318: CH. 19, 26.4.3, 26.4.4 | 1904.1, 1904.2, 1908.2, 1908.3 |
| 5. PRIOR TO CONCRETE PLACEMENT, FABRICATE SPECIMENS FOR STRENGTH TESTS, PERFORM SLUMP AND AIR CONTENT TESTS, AND DETERMINE THE TEMPERATURE OF THE CONCRETE. | X | — | ASTM C172<br>ASTM C31<br>ACI 318: 26.4, 26.12 | 1908.10 |
| 6. INSPECT CONCRETE FOR PROPER APPLICATION TECHNIQUES. | X | — | ACI 318: 26.5 | 1908.6, 1908.7, 1908.8 |
| 7. VERIFY MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUES. | — | X | ACI 318: 26.5.3–26.5.5 | 1908.9 |
| 8. INSPECT FORMWORK FOR SHAPE, LOCATION AND DIMENSIONS OF THE CONCRETE MEMBER BEING FORMED. | — | X | ACI 318: 26.11.1.2(b) | — |

**REQUIRED SPECIAL INSPECTIONS FOR STRUCTURAL STEEL:**
**IBC 2018 1705.2.1 & AISC 360–10**

**TABLE N5.4–1**
**INSPECTION TASKS PRIOR TO WELDING**

| INSPECTION TASKS PRIOR TO WELDING | QC | QA |
|---|---|---|
| WELDING PROCEDURE SPECIFICATIONS (WPSs) AVAILABLE | P | P |
| MANUFACTURER CERTIFICATIONS FOR WELDING CONSUMABLES AVAILABLE | P | P |
| MATERIAL IDENTIFICATION (TYPE/GRADE) | O | O |
| WELDER IDENTIFICATION SYSTEM [1] | O | O |
| FIT–UP OF GROOVE WELDS (INCLUDING JOINT GEOMETRY)<br>◊ JOINT PENETRATION<br>◊ DIMENSIONS (ALIGNMENT, ROOT OPENING, ROOT FACE, BEVEL)<br>◊ CLEANLINESS (CONDITION OF STEEL SURFACES)<br>◊ TACKING (TACK WELD QUALITY AND LOCATION)<br>◊ BACKING TYPE AND FIT (IF APPLICABLE) | O | O |
| CONFIGURATION AND FINISH OF ACCESS HOLES | O | O |
| FIT–UP OF FILLET WELDS<br>◊ DIMENSIONS (ALIGNMENT, GAPS AT ROOT)<br>◊ CLEANLINESS (CONDITION OF STEEL SURFACES)<br>◊ TACKING (TACK WELD QUALITY AND LOCATION | O | O |
| CHECK WELDING EQUIPMENT | O | — |

[1] THE FABRICATOR OR ERECTOR, AS APPLICABLE, SHALL MAINTAIN A SYSTEM BY WHICH A WELDER WHO HAS WELDED A JOINT OR MEMBER CAN BE IDENTIFIED. STAMPS IF USED, SHALL BE THE LOW–STRESS TYPE

FOR STRUCTURAL STEEL, ALL PROVISIONS OF AWS D1.1/D1.1M *STRUCTURAL WELDING CODE–STEEL* FOR *STATICALLY LOADED STRUCTURES* SHALL APPLY.

**REQUIRED SPECIAL INSPECTIONS FOR STRUCTURAL STEEL:**
**IBC 2018 1705.2.1 & AISC 360–10**

**TABLE N5.4–2**
**INSPECTION TASKS DURING WELDING**

| INSPECTION TASKS DURING WELDING | QC | QA |
|---|---|---|
| USE QUALIFIED WELDERS | O | O |
| CONTROL AND HANDLING OF WELDING CONSUMABLES<br>◊ PACKAGING<br>◊ EXPOSURE CONTROL | O | O |
| NO WELDING OVER CRACKED TACK WELDS | O | O |
| ENVIRONMENTAL CONDITIONS<br>◊ WIND SPEED WITHIN LIMITS<br>◊ PRECIPITATION AND TEMPERATURE | O | O |
| WPS FOLLOWED<br>◊ SETTINGS ON WELDING EQUIPMENT<br>◊ TRAVEL SPEED<br>◊ SELECTING WELDING MATERIALS<br>◊ SHIELDING GAD TYPE/FLOW RATE<br>◊ PREHEAD APPLIED<br>◊ INTERPASS TEMPERATURE MAINTAINED (MIN./MAX.)<br>◊ PROPER POSITION (F, V, H, OH) | O | O |
| WELDING TECHNIQUES<br>◊ INTERPASS AND FINAL CLEANING<br>◊ EACH PASS WITHIN PROFILE LIMITATIONS<br>◊ EACH PASS MEETS QUALITY REQUIREMENTS | O | O |

FOR STRUCTURAL STEEL, ALL PROVISIONS OF AWS D1.1/D1.1M *STRUCTURAL WELDING CODE–STEEL* FOR *STATICALLY LOADED STRUCTURES* SHALL APPLY.

**REQUIRED SPECIAL INSPECTIONS FOR STRUCTURAL STEEL:**
**IBC 2018 1705.2.1 & AISC 360–10**

**TABLE N5.4–3**
**INSPECTION TASKS AFTER WELDING**

| INSPECTION TASKS AFTER WELDING | QC | QA |
|---|---|---|
| WELDS CLEANED | O | O |
| SIZE, LENGTH AND LOCATION OF WELDS | P | P |
| WELDS MEET VISUAL ACCEPTANCE CRITERIA<br>◊ CRACK PROHIBITION<br>◊ WELD/BASE–METAL FUSION<br>◊ CRATER CROSS SECTION<br>◊ WEKD PROFILES<br>◊ WELD SIZE<br>◊ UNDERCUT<br>◊ POROSITY | P | P |
| ARC STRIKES | P | P |
| k–AREA[1] | P | P |
| BACKING REMOVED AND WELD TABS REMOVED (IF REQUIRED) | P | P |
| REPAIR ACTIVITIES | P | P |
| DOCUMENT ACCEPTANCE OR REJECTION OF WELDED JOINT OR MEMBER | P | P |

[1] WHEN WELDING OF DOUBLE PLATES, CONTINUITY PLATES OR STIFFENERS HAS BEEN PERFORMED IN THE K–AREA, VISUALLY INSPECT THE WEB K–AREA FOR CRACKS WITHIN 3 IN (77 MM) OF THE WELD.

FOR STRUCTURAL STEEL, ALL PROVISIONS OF AWS D1.1/D1.1M *STRUCTURAL WELDING CODE–STEEL* FOR *STATICALLY LOADED STRUCTURES* SHALL APPLY.

**REQUIRED SPECIAL INSPECTIONS FOR STRUCTURAL STEEL:**
**IBC 2018 1705.2.1 & AISC 360–10**

**TABLE N5.6–1**
**INSPECTION TASKS PRIOR TO BOLTING**

| INSPECTION TASKS PRIOR TO BOLTING | QC | QA |
|---|---|---|
| MANUFACTURER'S CERTIFICATIONS AVAILABLE FOR FASTENER MATERIALS | O | P |
| FASTENERS MARKED IN ACCORDANCE WITH ASTM REQUIREMENTS | O | O |
| PROPER FASTENERS SELECTED FOR THE JOINT DETAIL (GRADE, TYPE, BOLT LENGTH IF THREADS ARE TO BE EXCLUDED FROM SHEAR PLANE) | O | O |
| PROPER BOLTING PROCEDURE SELECTED FOR JOINT DETAIL | O | O |
| CONNECTING ELEMENTS, INCLUDING THE APPROPRIATE FAYING SURFACE CONDITION AND HOLE PREPARATION, IF SPECIFIED, MEET APPLICABLE REQUIREMENTS | O | O |
| PRE–INSTALLATION VERIFICATION TESTING BY INSTALLATION PERSONNEL OBSERVED AND DOCUMENTED FOR FASTENER ASSEMBLIES AND METHODS USED | P | O |
| PROPER STORAGE PROVIDED FOR BOLTS, NUTS, WASHERS AND OTHER FASTENER COMPONENTS | O | O |

**REQUIRED SPECIAL INSPECTIONS FOR STRUCTURAL STEEL:**
**IBC 2018 1705.2.1 & AISC 360–10**

**TABLE N5.6–2**
**INSPECTION TASKS DURING BOLTING**

| INSPECTION TASKS PRIOR TO BOLTING | QC | QA |
|---|---|---|
| FASTENER ASSEMBLIES, OF SUITABLE CONDITION, PLACED IN ALL HOLES AND WASHERS (IF REQUIRED) ARE POSITIONED AS REQUIRED | O | O |
| JOINT BROUGHT TO THE SNUG–TIGHT CONDITION PRIOR TO THE PRETENSIONING OPERATION | O | O |
| FASTENER COMPONENT NOT TURNED BY THE WRENCH PREVENTED FROM ROTATING | O | O |
| FASTENERS ARE PRETENSIONED IN ACCORDANCE WITH THE RCSC SPECIFICATION, PROGRESSING SYSTEMATICALLY FROM THE MOST RIGID POINT TOWARD THE FREE EDGES. | O | O |

**REQUIRED SPECIAL INSPECTIONS FOR STRUCTURAL STEEL:**
**IBC 2018 1705.2.1 & AISC 360–10**

**TABLE N5.6–3**
**INSPECTION TASKS AFTER BOLTING**

| INSPECTION TASKS PRIOR TO BOLTING | QC | QA |
|---|---|---|
| DOCUMENT ACCEPTANCE OR REJECTION OF BOLT CONNECTIONS | P | P |

STRUCTURAL STEEL NOTES:
1. ***QUALITY CONTROL*** **(QC)** – SHALL BE PROVIDED BY THE FABRICATOR OR ERECTOR
2. ***QUALITY ASSURANCE*** **(QA)** – SHALL BE PROVIDED BY OTHERS WHEN REQUIRED BY THE *AUTHORITY HAVING JURISDICTION* (AHJ), *APPLICABLE BUILDING CODE* (ABC), PURCHASER, OWNER, OR *ENGINEER OF RECORD* (EOR).
3. O – OBSERVE THESE ITEMS ON A RANDOM BASIS. OPERATIONS NEED NOT BE DELAYED PENDING THESE INSPECTIONS
4. P – PERFORM THESE TASKS FOR EACH WELDED JOINT OR MEMBER, EACH BOLTED CONNECTION, AND/OR EACH STEEL ELEMENT.

**REQUIRED SPECIAL INSPECTIONS FOR MASONRY CONSTRUCTION:**
**IBC 2018 1705.4 & TMS 402/ACI 520/ASCE5 & TMS 602/ACI 530.1/ASCE 6**

**TABLE 3.1.2 – LEVEL B QUALITY ASSURANCE**

**MINIMUM TESTS**

VERIFICATION OF SLUMP FLOW AND VISUAL STABILITY INDEX (VSI) AS DELIVERED TO THE PROJECT SITE IN ACCORDANCE WITH SPECIFICATION ARTICLE 1.5 B.1.b.3 FOR SELF CONSOLIDATING GROUT

VERIFICATION OF $f'_m$ AND $f'_{AAC}$ IN ACCORDANCE WITH SPECIFICATION ARTICLE 1.4 B PRIOR TO CONSTRUCTION, EXCEPT WHERE SPECIFICALLY EXEMPTED BY THIS CODE

**MINIMUM SPECIAL INSPECTION**

| INSPECTION TASKS | FREQUENCY (a) | | REFERENCE FOR CRITERIA | |
|---|---|---|---|---|
| | CONTINUOUS | PERIODIC | TMS 402/ACI 530/ ASCE 5 | TMS 602/ACI 530.1/ ASCE 6 |
| 1. VERIFY COMPLIANCE WITH THE APPROVED SUBMITTALS | | X | | Art. 1.5 |
| 2. AS MASONRY CONSTRUCTION BEGINS, VERIFY THAT THE FOLLOWING ARE IN COMPLIANCE: | | | | |
| a. PROPORTIONS OF SITE–PREPARED MORTAR | | X | | Art. 2.1, 2.6 A |
| b. CONSTRUCTION OF MORTAR JOINTS | | X | | Art. 3.3 B |
| c. LOCATION OF REINFORCEMENT AND CONNECTORS | | X | | Art. 3.4 B, 3.6 A |
| 3. PRIOR TO GROUTING, VERIFY THE FOLLOWING ARE IN COMPLIANCE: | | | | |
| a. GROUT SPACE | | X | | Art. 3.2 D, 3.2 F |
| b. GRADE, TYPE, AND SIZE OF REINFORCEMENT AND ANCHOR BOLTS | | X | SEC. 6.1 | Art. 2.4, 3.4 |
| c. PLACEMENT OF REINFORCEMENT AND CONNECTORS | | X | SEC. 6.1, 6.2.1, 6.2.6, 6.2.7 | Art. 3.2 E, 3.4, 3.6 A |
| d. PROPORTIONS OF SITE–PREPARED GROUT | | X | | Art. 2.6 B, 2.4 G.1.b |
| e. CONSTRUCTION OF MORTAR JOINTS | | X | | Art. 3.3 B |
| 4. VERIFY DURING CONSTRUCTION | | | | |
| a. SIZE AND LOCATION OF STRUCTURAL ELEMENTS | | X | | Art. 3.3 F |
| b. TYPE, SIZE, AND LOCATION OF ANCHORS, INCLUDING OTHER DETAILS OF ANCHORAGE OF MASONRY TO STRUCTURAL MEMBERS, FRAMES, OR OTHER CONSTRUCTION | | X | SEC. 1.2.1 (e), 6.1.4.3, 6.2.1 | |
| c. WELDING OF REINFORCEMENT | X | | SEC. 8.1.6.7.2, 9.3.3.4 (c), 11.3.3.4 (b) | |
| d. PREPARATION, CONSTRUCTION, AND PROTECTION OF MASONRY DURING COLD WEATHER (TEMPERATURE BELOW 40°F (4.4°C)) OR HOT WEATHER (TEMPERATURE ABOVE 90°F (32.2°C)) | | X | | Art. 1.8 C, 1.8 D |
| e. PLACEMENT OF GROUT | X | | | Art. 3.5, 3.6 C |
| 5. OBSERVE PREPARATION OF GROUT SPECIMENS, MORTAR SPECIMENS, AND/OR PRISMS | | X | | Art. 1.4 B.2.a.3, 1.4 B.2.b.3, 1.4 B.2.c.3, 1.4 B.3, 1.4 B.4 |

(a) FREQUENCY REFERS TO THE FREQUENCY OF SPECIAL INSPECTION, WHICH MAY BE CONTINUOUS DURING THE TASK LISTED OR PERIODIC DURING THE LISTED TASK, AS DEFINED IN THE TABLE.
(b) REQUIRED FOR THE FIRST 50000 SQUARE FEET (465 SQUARE METERS) OF AAC MASONRY.
(c) REQUIRED AFTER THE FIRST 5000 SQUARE FEET (465 SQUARE METERS) OF AAC MASONRY.

**REQUIRED SPECIAL INSPECTIONS FOR COLD–FORMED STEEL DECK CONSTRUCTION**

| INSPECTION TASKS | FREQUENCY | REFERENCE |
|---|---|---|
| 1. SPECIAL INSPECTIONS AND QUALIFICATION OF WELDING SPECIAL INSPECTORS FOR COLD–FORMED STEEL FLOOR AND ROOF DECK SHALL BE IN ACCORDANCE WITH THE QUALITY ASSURANCE INSPECTION REQUIREMENTS OF SDI QA/QC | — | IBC 2018 – 1705.2.2 |
| 2. VERIFY DECK TYPE, DEPTH, AND GAUGE | PERIODIC | STRUCTURAL DRAWINGS & SCHEDULES |


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CONSULTANT:
JBA Joseph Barbato Associates
STRUCTURAL ENGINEERS · ACHIEVING A HIGHER LEVEL
100 Chadds Ford Professional Center
6 Dickinson Drive, Suite 103
Chadds Ford, PA 19317–9688
phone: 610–558–8050
WWW.JBarbato.com


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DATE: 01/08/2025
DESCRIPTION: BID DOCUMENTS

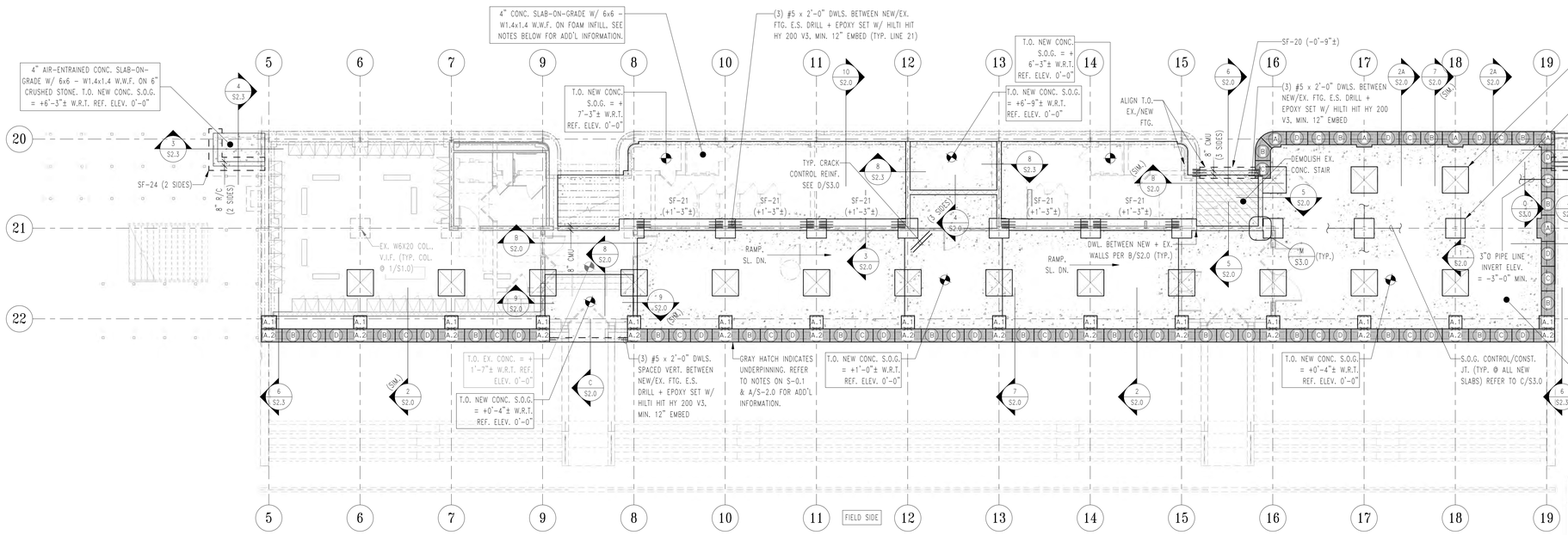
PROJ # : MM2410 DRAWN BY : ESR

SHEET TITLE:
**SCHEDULE OF SPECIAL INSPECTIONS**

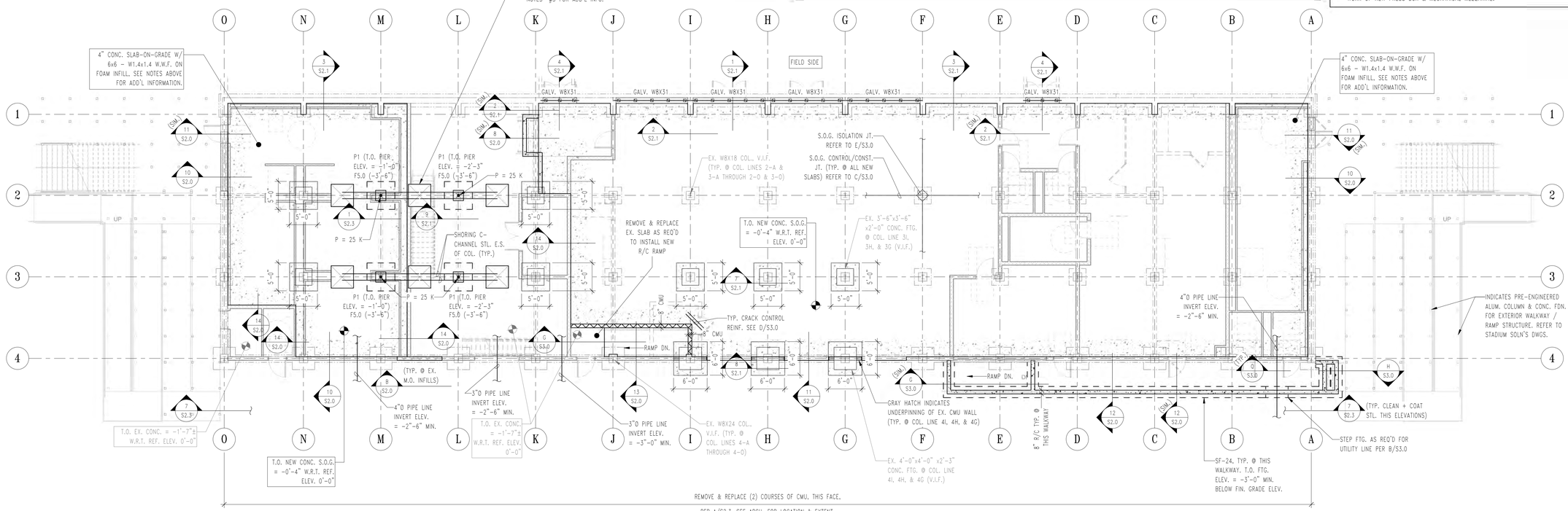
SHEET NUMBER:
**S0.2**

**BID DOCUMENTS**

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1 / S1.0 = VISITOR BLEACHER – FOUNDATION PLAN
SCALE: 1/8" = 1'-0"




2 / S1.0 = HOME BLEACHER – FOUNDATION PLAN
SCALE: 1/8" = 1'-0"

## EXPANDED POLYSTYRENE (EPS) FORMWORK NOTES

1. EXPANDED POLYSTYRENE SHALL BE PRODUCED IN ACCORDANCE WITH ASTM D6817 TYPE EPS15 – STANDARD SPECIFICATION FOR RIGID, CELLULAR POLYSTYRENE.
2. PROVIDE A MINIMUM OF 5 YEARS EXPERIENCE IN THE INSTALLATION AND PLACEMENT OF CONCRETE UTILIZING THIS FORMWORK PRODUCT. ADDITIONALLY, PROVIDE 5 REFERENCES TO SIMILAR TYPE PROJECTS.
3. SUBMIT EPS FORMWORK MANUFACTURER'S PRODUCT LITERATURE AND DATA, INCLUDING:
   A. PHYSICAL PROPERTIES IN COMPLIANCE WITH ASTM D6817 TYPE SPECIFIED.
   B. PROVIDE EPS FORMWORK 15-YEAR WARRANTY COVERING THE LONG-TERM PHYSICAL PROPERTY OF EXPANDED POLYSTYRENE FORMWORK.
   C. TEST COMPLIANCE: SUMMARY OF TEST COMPLIANCE WITH SPECIFIED PERFORMANCE CHARACTERISTICS AND PHYSICAL PROPERTIES.
4. SUBMIT SHOP DRAWINGS SHOWING EPS FORMWORK BLOCK LAYOUT.
5. DELIVER EPS FORMWORK LABELED WITH MATERIAL TYPE. STORE ABOVE GROUND, AND PROTECTED FROM MOISTURE AND SUNLIGHT PRIOR TO INSTALLATION.
6. PRODUCT SHOULD NOT BE EXPOSED TO OPEN FLAME OR OTHER IGNITION SOURCES.
7. LIGHT GAGE METAL PLATES SHALL BE USED TO RESTRAIN EPS FORMWORK FROM MOVING LATERALLY IN LAYER OVER LAYER APPLICATIONS. THE PLATE SHALL BE MADE OF GALVANIZED OR STAINLESS STEEL WITH TWO-SIDED MULTI-BARBED DESIGN CAPABLE OF PIERCING THE EPS FORMWORK. EACH PLATE SHALL BE CAPABLE OF A LATERAL HOLDING STRENGTH OF 120 LBS. PROVIDE TWO PLATES FOR EACH 4 FOOT X 8 FOOT SECTION OF EPS FORMWORK – MINIMUM.
8. ALL EPS FORMWORK INSTALLATION SHALL BE IN COMPLIANCE WITH MANUFACTURER'S EPS FORMWORK PRODUCT DATA; INCLUDING TECHNICAL BULLETINS. CONTRACTOR IS RESPONSIBLE FOR A COMPLETE SYSTEM INSTALLATION.
9. PRIOR TO INSTALLATION, VERIFY CONDITIONS OF SUBSTRATE, GRADE AND OTHER CONDITIONS WHICH AFFECT INSTALLATION OF EPS FORMWORK.
10. INSTALL EPS FORMWORK PER MANUFACTURER'S RECOMMENDATIONS AND INSTALLATION GUIDELINES.
11. PROTECT INSTALLED PRODUCT AND FINISH SURFACES FROM DAMAGE DURING CONSTRUCTION AS REQUIRED.
12. PLACE A SAND PAD/LEVELING COURSE OVER THE PREPARED SUBSTRATE, 2" (50 MM) THICKNESS MINIMUM. LEVEL TO +–1/2" PER 10 FOOT HORIZONTAL.
13. AT TIME OF MATERIAL DELIVERY, VERIFY IDENTIFICATION MARKS ON FACE OF THE PRODUCT. USE MATERIAL OF PROPER TYPE ONLY AND AS SPECIFIED. FIELD SAMPLING AND TESTING OF THE EPS FORMWORK WILL BE AS SPECIFIED BY THE ENGINEER. PROPERTIES OF DENSITY AND COMPRESSIVE RESISTANCE SHALL BE VERIFIED IN ACCORDANCE WITH THE SPECIFICATION.
14. BLOCKS OF EPS FORMWORK SHOULD BE PLACED TIGHTLY ON THE PREPARED SAND PAD/LEVELING COURSE (SAND MUST NOT BE FROZEN). IF MULTIPLE LAYERS OF EPS FORMWORK ARE REQUIRED, ORIENT SUCCESSIVE LAYERS OF BLOCKS AT 90° TO PREVIOUS LAYER. OFFSET BLOCK JOINTS BETWEEN LAYERS.

## TYPICAL FOUNDATION PLAN NOTES

1. REFERENCE FINISH SLAB ELEVATION VARIES W.R.T. REF. ELEV. 0'-0", SEE PLAN FOR REFERENCE FINISH SLAB ELEVATIONS.
2. (#'-#") INDICATES TOP OF FOOTING ELEVATION. TOP OF FOOTING ELEVATION VARIES W.R.T. REF. ELEVATION 0'-0", SEE PLAN FOR TOP OF FOOTING ELEVATIONS W.R.T. REF. ELEVATION 0'-0".
3. FOUNDATION MEMBERS ARE DESIGNATED AS FOLLOWS:
   SF/F#.# FOOTING MARK (SEE FOOTING SCHEDULE)
   P# PIER MARK (SEE PIER SCHEDULE)
4. COORDINATE WITH ARCH, MECH, ELEC, AND PLUMBING DRAWINGS FOR FLOOR SLOPES, DRAINS, OPENINGS, DEPRESSIONS, ETC., NOT SHOWN ON THIS PLAN.
5. REFER TO ARCHITECTURAL DRAWINGS FOR DIMENSIONS NOT INDICATED.
6. FOR GENERAL STRUCTURAL NOTES, REFER TO S0.0 & S0.1.
7. REFER TO TYPICAL FOUNDATION DETAILS ON DRAWINGS S3.0 & S3.1.
8. ALL WALL FOOTINGS SHALL BE INSTALLED CENTERED ON FOUNDATION WALL U.N.O.
9. TYPICAL MASONRY WALL REINFORCING = #5 @ 32"O.C., GROUT REINFORCED CORES AND ALL CMU BELOW GRADE SOLID. PROVIDE FOOTING DOWELS TO MATCH SIZE & SPACING OF WALL REINFORCING.
10. G.C. TO SUBMIT C.J. LAYOUT FOR APPROVAL FOR SLAB ON GRADE WORK. REFER TO TYPICAL DETAILS ON S3.0 AND NOTES FOR PREPARATION OF LAYOUT.
11. REFER TO SITE/CIVIL DRAWINGS FOR EXTERIOR SITE GRADES. THIS FOUNDATION PLAN PREPARED ACCORDING TO GRADING PLAN PREPARED BY ELA SPORT ATHLETIC FACILITIES DESIGN & CONSULTING, DATED OCTOBER, 2024. FOUNDATION DESIGN MAY CHANGE BASED ON FINAL SITE/CIVIL DRAWINGS.
12. EXISTING CONSTRUCTION SHOWN THUS, ———— ———— ————, TO BE FIELD VERIFIED BY GENERAL CONTRACTOR PRIOR TO DETAILING, FABRICATION, AND CONSTRUCTION. NOTIFY ARCHITECT/ENGINEER OF ANY DISCREPANCIES PRIOR TO THE START OF WORK.
13. ALL TEMPORARY SHORING SHALL BE INSTALLED PRIOR TO THE INSTALLATION OF FTG. EXTENSIONS & FTG. UNDERPINNING. ALL FTG. EXTENSIONS & FTG. UNDERPINNING WORK SHALL BE COMPLETED PRIOR TO WORK OF NEW PRESS BOX & MECHANICAL MEZZANINE.


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School District of Lancaster
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CONSULTANT:
JBA Joseph Barbato Associates
STRUCTURAL ENGINEERS · ACHIEVING A HIGHER LEVEL
100 Chadds Ford Professional Center
6 Dickinson Drive, Suite 103
Chadds Ford, PA 19317-9688
phone: 610-558-8050
WWW.JBarbato.com


ADDITIONS & RENOVATIONS TO:
J.P. MCCASKEY STADIUM
PROJECTS
SCHOOL DISTRICT OF LANCASTER
445 N RESERVOIR ST, LANCASTER, PA 17602

ISSUE DATES
DATE: 01/08/2025
DESCRIPTION: BID DOCUMENTS

PROJ # : MM2410 DRAWN BY : ESR

SHEET TITLE:

**FOUNDATION PLANS**

SHEET NUMBER:
**S1.0**

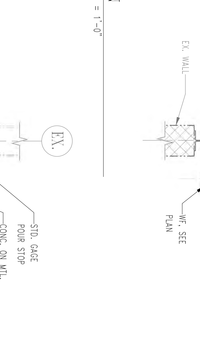
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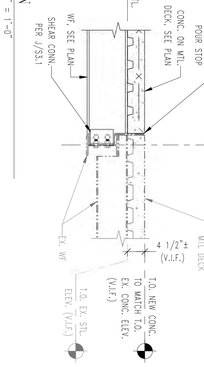
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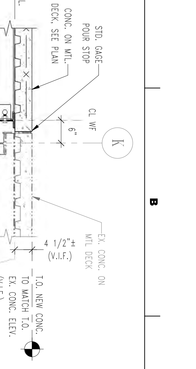

1 S1.1 SECTION
SCALE: 3/4" = 1'-0"



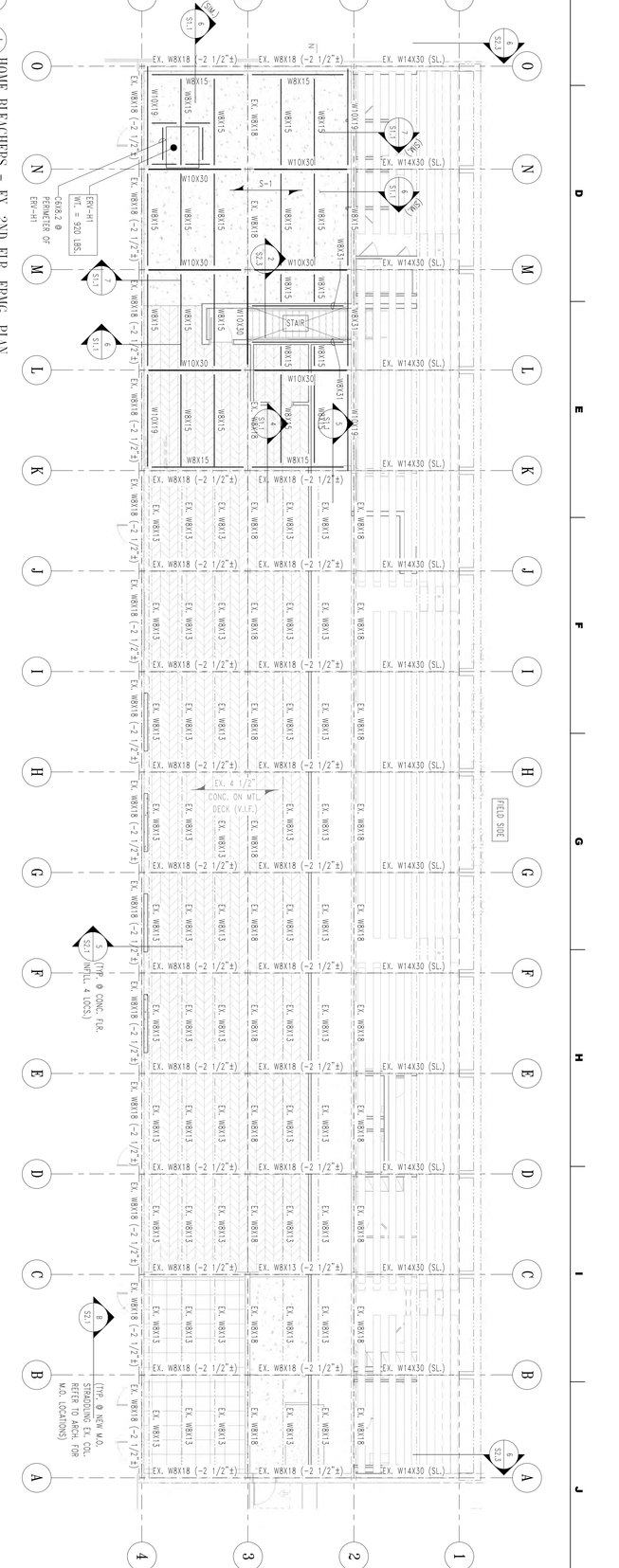

3 S1.1 SECTION
SCALE: 3/4" = 1'-0"



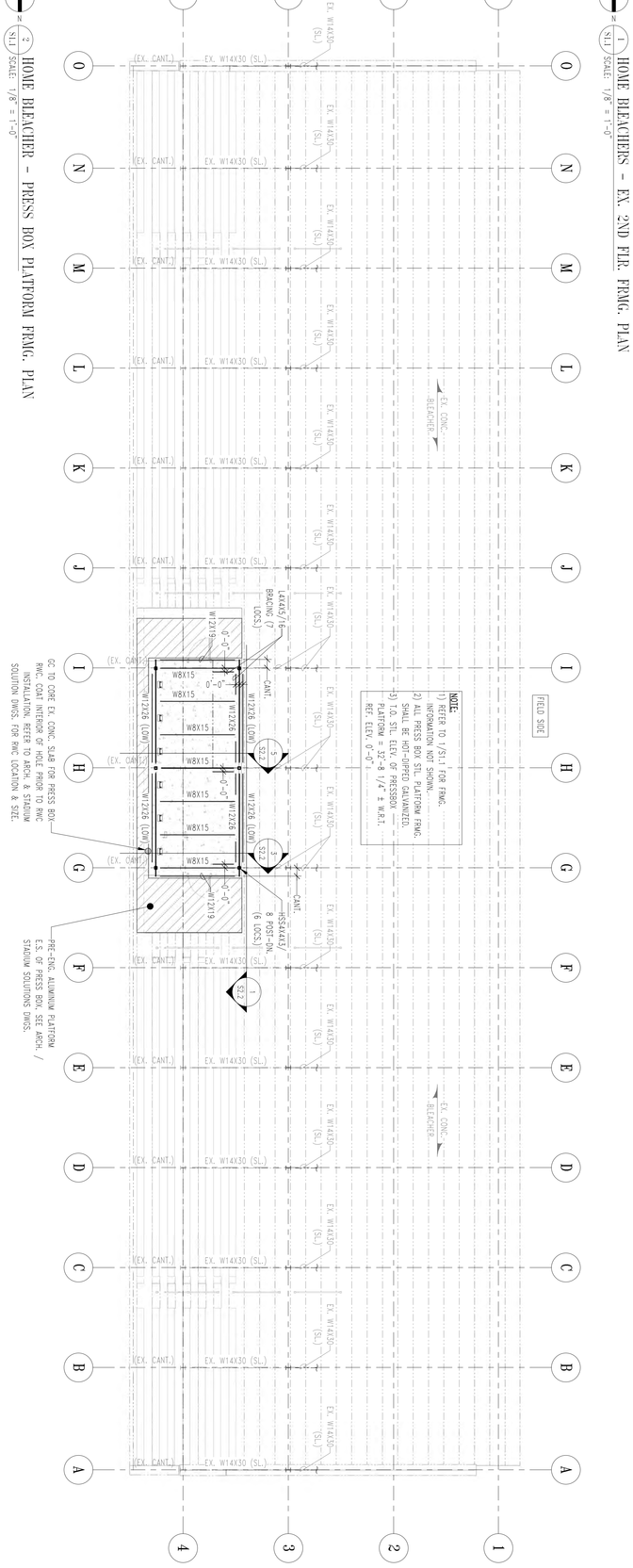

6 S1.1 SECTION
SCALE: 3/4" = 1'-0"



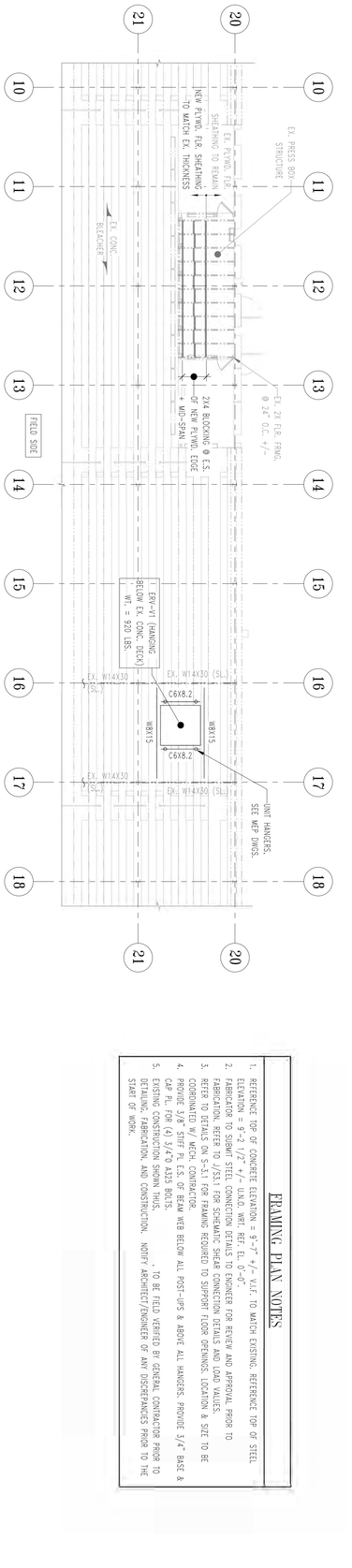

7 S1.1 SECTION
SCALE: 3/4" = 1'-0"




1 S1.1 HOME BLEACHERS - EX. 2ND FLR. FRMG. PLAN
SCALE: 1/8" = 1'-0"




2 S1.1 HOME BLEACHERS - PRESS BOX PLATFORM FRMG. PLAN
SCALE: 1/8" = 1'-0"




3 S1.1 VISITOR BLEACHERS - EX. FRAMING PLAN
SCALE: 1/8" = 1'-0"

## FRAMING PLAN NOTES

1. REFERENCE TOP OF CONCRETE ELEVATION = 9'-7 +/- V.I.F. TO MATCH EXISTING. REFERENCE TOP OF STEEL ELEVATION = 9'-2 1/2" +/- U.N.O. WRT. REF. EL. 0'-0".
2. FABRICATOR TO SUBMIT STEEL CONNECTION DETAILS TO ENGINEER FOR REVIEW AND APPROVAL PRIOR TO FABRICATION. REFER TO //SS.1 FOR SCHEMATIC SHEAR CONNECTION DETAILS AND LOAD VALUES.
3. REFER TO DETAILS ON S-3.1 FOR FRAMING REQUIRED TO SUPPORT FLOOR OPENINGS. LOCATION & SIZE TO BE COORDINATED W/ MECH. CONTRACTOR.
4. PROVIDE 3/8" STIFF PL. E.S. OF BEAM WEB BELOW ALL POST-UPS & ABOVE ALL HANGERS. PROVIDE 3/4" BASE & CAP PL. FOR (4) 5/8"Ø A325 BOLTS.
5. EXISTING CONSTRUCTION SHOWN THUS: . TO BE FIELD VERIFIED BY GENERAL CONTRACTOR PRIOR TO DETAILING, FABRICATION, AND CONSTRUCTION. NOTIFY ARCHITECT/ENGINEER OF ANY DISCREPANCIES PRIOR TO THE START OF WORK.

ISSUE DATES

| DATE: | DESCRIPTION: |
|---|---|
| 01/08/2025 | BID DOCUMENTS |

PROJ #: MM2410
DRAWN BY: ESR

SHEET TITLE: FRAMING PLANS

SHEET NUMBER: S1.1

BID DOCUMENTS

ADDITIONS & RENOVATIONS TO:
J.P. MCCASKEY STADIUM PROJECTS
SCHOOL DISTRICT OF LANCASTER
445 N RESERVOIR ST, LANCASTER, PA 17602

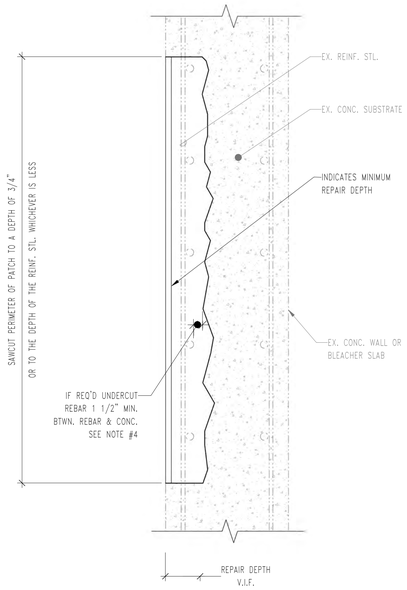
CONSULTANT:
JBA Joseph Barbato Associates
STRUCTURAL ENGINEERS · ACHIEVING A HIGHER LEVEL
100 Chadds Ford Professional Center
6 Dickinson Drive, Suite 103
Chadds Ford, PA 19317-9689
phone: 610-558-6050
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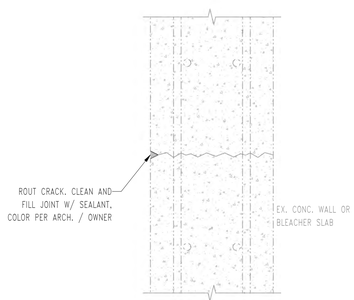



**SPALL REPAIR PROCEDURE:**

1. SOUND CONCRETE AND LAYOUT AREA TO BE REPAIRED. REPAIRS SHALL BE SQUARE OR RECTANGULAR IN SHAPE.
2. SAWCUT PERIMETER OF PATCH TO A DEPTH OF 3/4" OR TO THE DEPTH OF THE REINFORCING STEEL WHICHEVER IS LESS.
3. CHIP OUT AND REMOVE DETERIORATED AND DELAMINATED CONCRETE TO SOUND CONCRETE.
4. IF REBAR IS EXPOSED AND CORROSION IS PRESENT, CHIP OUT A MINIMUM 1 1/2" CLEARANCE AROUND AND BETWEEN EXPOSED REBARS AND SURROUNDING CONCRETE.
5. CONCRETE REMOVALS SHALL EXTEND ALONG REBARS TO LOCATIONS ALONG THE BAR, FREE OF BOND INHIBITING CORROSION, AND WHERE THE BAR IS WELL BONDED TO SURROUNDING CONCRETE.
6. SANDBLAST CLEAN EXISTING CONCRETE AND REBAR TO REMOVE ALL RUST, OXIDES AND SCALE.
7. COAT REBAR W/ 2 COATS OF SIKA ARMATEC 110 EPOCEM.
8. AT THE TIME OF APPLICATION, SATURATE SUBSTRATE SURFACE WITH CLEAN WATER. SUBSTRATE SHOULD BE SATURATED SURFACE DRY (SSD).
9. WHILE THE SURROUNDING CONCRETE IS IN A SSD STATE, INSTALL A SLURRY SCRUB COAT OF THE REPAIR MATERIAL INTO THE PORES AND VOIDS OF THE EXISTING CONCRETE.
10. IMMEDIATELY FOLLOWING THE SCRUB COAT, PLACE THE REPAIR MATERIAL INTO THE PREPARED AREA. REPAIR MATERIAL TO BE INSTALLED IN CONFORMANCE WITH THE MANUFACTURER'S REQUIREMENTS COLOR SELECTION BY OWNER / ENGR.

A. HORIZONTAL REPAIRS - SIKAQUICK 1000:
   1. FROM 1/4" TO 2" DEEP - NO ADDED STONE
   2. FROM 2" TO 6" DEEP - 25 LBS OF 3/8" STONE PER BAG CAN ALSO BE USED FOR FORM AND POUR REPAIRS AS NEEDED
B. VERTICAL & OVERHEAD REPAIRS - SIKAQUICK VOH:
   1. FROM 1/8" TO 3" DEEP PER LIFT

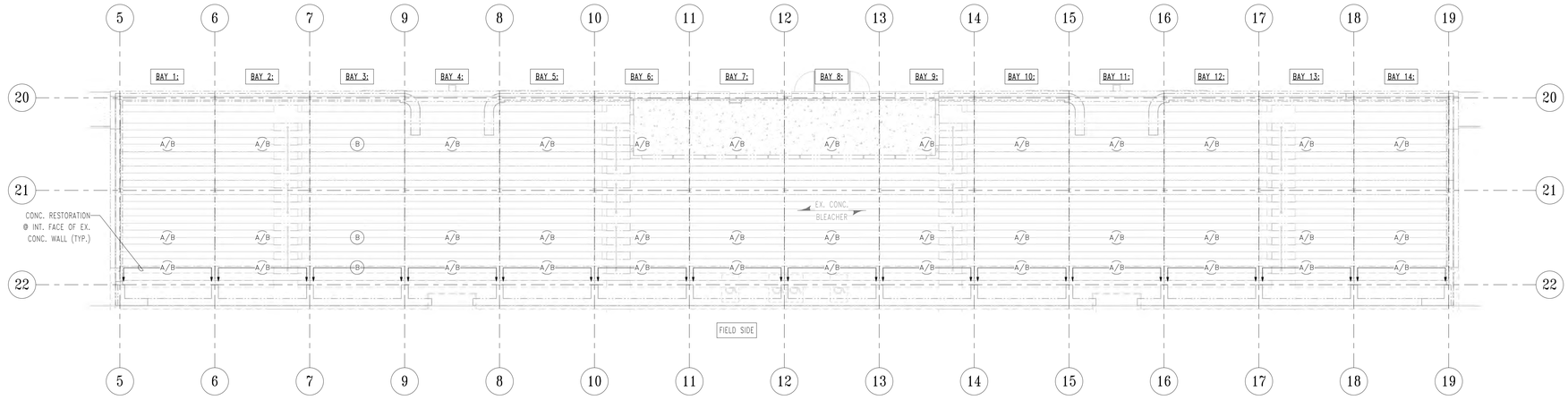
A / S1.2 TYPICAL CONCRETE SPALL REPAIR
SCALE: N.T.S.



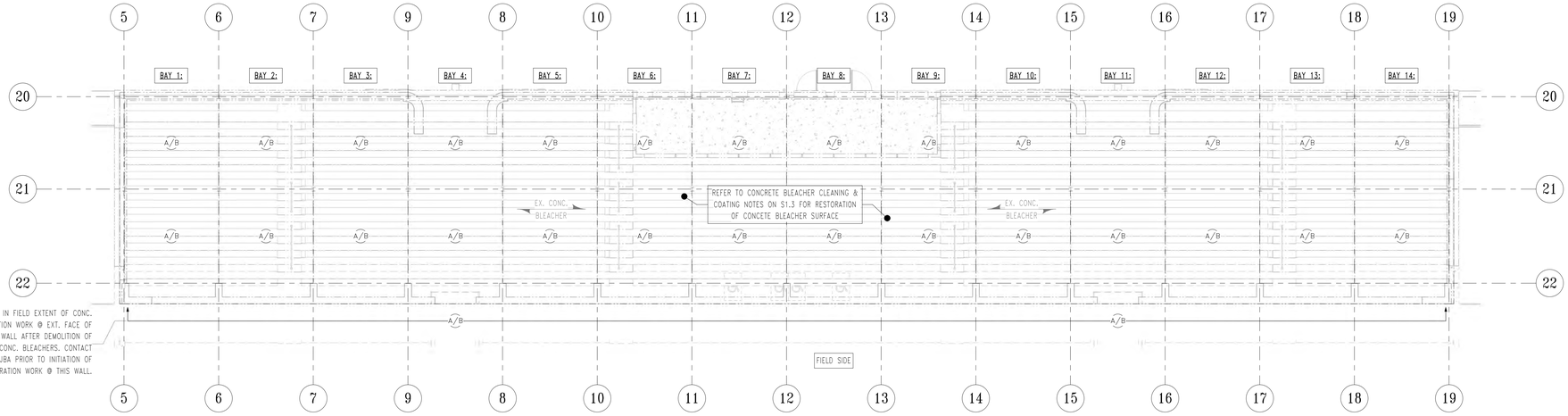

**CRACK REPAIR PROCEDURE:**

1. ROUT CRACKS OVER 1/16" UP TO 1" WIDE AT CENTER TO FORM A GROOVE, MIN. 1/2" WIDE AND MIN. 1/2" DEEP. GRIND UNEVEN SURFACES. CRACKS LESS THAN 1/16" WIDE SHOULD NOT BE ROUTED AND SEALED AND WILL BE ADDRESSED BY THE DECK COATING.
2. CLEAN JOINT, REMOVE DUST, FOREIGN PARTICLES, AND BOND INHIBITING MATERIAL FROM SURFACE BY AIR OR SAND BLASTING AS REQ'D.
3. INSTALL SIKAFLEX-2C NS EZ MIX EVENLY WITH ADJACENT SURFACE, AND IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS. COLOR TO BE SELECTED BY OWNER / ARCH.
4. CONTRACTOR SHALL SUBMIT CONCRETE REPAIR MATERIALS FOR REVIEW PRIOR TO START OF WORK.

B / S1.2 TYPICAL CONCRETE CRACK REPAIR DETAIL
SCALE: N.T.S.




N / 1 / S1.2 VISITOR BLEACHER - UNDER SIDE CONC. RESTOR. PLAN
SCALE: 1/8" = 1'-0"




N / 2 / S1.2 VISITOR BLEACHER - TOP SIDE CONC. RESTOR. PLAN
SCALE: 1/8" = 1'-0"

**SCHEDULE OF RESTORATION WORK:** 2/S1.2 TOP SIDE OF CONC.

| LOCATION: | KEY: | REPAIR TYPE: | QUANTITY: | DETAIL: | LOCATION: | KEY: | REPAIR TYPE: | QUANTITY: | DETAIL: |
|---|---|---|---|---|---|---|---|---|---|
| BAY 1 | A | CONCRETE SPALL REPAIR | 3 SQFT | A/S1.2 | BAY 8 | A | CONCRETE SPALL REPAIR | 3 SQFT | A/S1.2 |
| | B | CONCRETE CRACK REPAIR | 111 LFT | B/S1.2 | | B | CONCRETE CRACK REPAIR | 89 LFT | B/S1.2 |
| BAY 2 | A | CONCRETE SPALL REPAIR | 3 SQFT | A/S1.2 | BAY 9 | A | CONCRETE SPALL REPAIR | 3 SQFT | A/S1.2 |
| | B | CONCRETE CRACK REPAIR | 111 LFT | B/S1.2 | | B | CONCRETE CRACK REPAIR | 89 LFT | B/S1.2 |
| BAY 3 | A | CONCRETE SPALL REPAIR | 3 SQFT | A/S1.2 | BAY 10 | A | CONCRETE SPALL REPAIR | 3 SQFT | A/S1.2 |
| | B | CONCRETE CRACK REPAIR | 111 LFT | B/S1.2 | | B | CONCRETE CRACK REPAIR | 89 LFT | B/S1.2 |
| BAY 4 | A | CONCRETE SPALL REPAIR | 3 SQFT | A/S1.2 | BAY 11 | A | CONCRETE SPALL REPAIR | 2 SQFT | A/S1.2 |
| | B | CONCRETE CRACK REPAIR | 100 LFT | B/S1.2 | | B | CONCRETE CRACK REPAIR | 78 LFT | B/S1.2 |
| BAY 5 | A | CONCRETE SPALL REPAIR | 3 SQFT | A/S1.2 | BAY 12 | A | CONCRETE SPALL REPAIR | 2 SQFT | A/S1.2 |
| | B | CONCRETE CRACK REPAIR | 89 LFT | B/S1.2 | | B | CONCRETE CRACK REPAIR | 67 LFT | B/S1.2 |
| BAY 6 | A | CONCRETE SPALL REPAIR | 3 SQFT | A/S1.2 | BAY 13 | A | CONCRETE SPALL REPAIR | 2 SQFT | A/S1.2 |
| | B | CONCRETE CRACK REPAIR | 89 LFT | B/S1.2 | | B | CONCRETE CRACK REPAIR | 67 LFT | B/S1.2 |
| BAY 7 | A | CONCRETE SPALL REPAIR | 3 SQFT | A/S1.2 | BAY 14 | A | CONCRETE SPALL REPAIR | 2 SQFT | A/S1.2 |
| | B | CONCRETE CRACK REPAIR | 89 LFT | B/S1.2 | | B | CONCRETE CRACK REPAIR | 67 LFT | B/S1.2 |
| TOTAL REPAIR | A | CONCRETE SPALL REPAIR | 38 SQFT | | | | | | |
| | B | CONCRETE CRACK REPAIR | 1246 LFT | | | | | | |

**SCHEDULE OF RESTORATION WORK:** 1/S1.2 UNDER SIDE OF CONC.

| LOCATION: | KEY: | REPAIR TYPE: | QUANTITY: | DETAIL: | LOCATION: | KEY: | REPAIR TYPE: | QUANTITY: | DETAIL: |
|---|---|---|---|---|---|---|---|---|---|
| BAY 1 | A | CONCRETE SPALL REPAIR | 16 SQFT | A/S1.2 | BAY 8 | A | CONCRETE SPALL REPAIR | 18 SQFT | A/S1.2 |
| | B | CONCRETE CRACK REPAIR | 14 LFT | B/S1.2 | | B | CONCRETE CRACK REPAIR | 28 LFT | B/S1.2 |
| BAY 2 | A | CONCRETE SPALL REPAIR | 16 SQFT | A/S1.2 | BAY 9 | A | CONCRETE SPALL REPAIR | 4 SQFT | A/S1.2 |
| | B | CONCRETE CRACK REPAIR | 8 LFT | B/S1.2 | | B | CONCRETE CRACK REPAIR | 31 LFT | B/S1.2 |
| BAY 3 | A | CONCRETE SPALL REPAIR | - | A/S1.2 | BAY 10 | A | CONCRETE SPALL REPAIR | 4 SQFT | A/S1.2 |
| | B | CONCRETE CRACK REPAIR | 12 LFT | B/S1.2 | | B | CONCRETE CRACK REPAIR | 33 LFT | B/S1.2 |
| BAY 4 | A | CONCRETE SPALL REPAIR | 4 SQFT | A/S1.2 | BAY 11 | A | CONCRETE SPALL REPAIR | 13 SQFT | A/S1.2 |
| | B | CONCRETE CRACK REPAIR | 25 LFT | B/S1.2 | | B | CONCRETE CRACK REPAIR | 5 LFT | B/S1.2 |
| BAY 5 | A | CONCRETE SPALL REPAIR | 2 SQFT | A/S1.2 | BAY 12 | A | CONCRETE SPALL REPAIR | 2 SQFT | A/S1.2 |
| | B | CONCRETE CRACK REPAIR | 16 LFT | B/S1.2 | | B | CONCRETE CRACK REPAIR | 52 LFT | B/S1.2 |
| BAY 6 | A | CONCRETE SPALL REPAIR | 2 SQFT | A/S1.2 | BAY 13 | A | CONCRETE SPALL REPAIR | 5 SQFT | A/S1.2 |
| | B | CONCRETE CRACK REPAIR | 26 LFT | B/S1.2 | | B | CONCRETE CRACK REPAIR | 46 LFT | B/S1.2 |
| BAY 7 | A | CONCRETE SPALL REPAIR | 7 SQFT | A/S1.2 | BAY 14 | A | CONCRETE SPALL REPAIR | 6 SQFT | A/S1.2 |
| | B | CONCRETE CRACK REPAIR | 35 LFT | B/S1.2 | | B | CONCRETE CRACK REPAIR | 43 LFT | B/S1.2 |
| TOTAL REPAIR | A | CONCRETE SPALL REPAIR | 99 SQFT | | | | | | |
| | B | CONCRETE CRACK REPAIR | 374 LFT | | | | | | |

**TYPICAL PLAN NOTES:**

1. RESTORATION QUANTITIES SHOWN ARE FOR AREAS SHOWN ON THE REPAIR PLAN NOTED ONLY.
2. ITEM NOTED ON PLAN REPRESENTS APPROXIMATE QUANTITY OF REPAIR. CONTRACTOR SHALL SOUND THE CONCRETE SURFACES AND LAY-OUT REPAIR AREAS & IDENTIFY QUANTITIES FOR JBA TO REVIEW AND CONFIRM PRIOR TO START OF WORK.
3. RESTORATIONS CONTRACTOR SHALL VISIT THE SITE TO REVIEW QUANTITIES & SCOPE OF WORK PRIOR TO SUBMITTING BID.

* NOTES ARE APPLICABLE FOR SCHEDULES 1 & 2/S1.2.

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CONSULTANT:
JBA Joseph Barbato Associates
STRUCTURAL ENGINEERS - ACHIEVING A HIGHER LEVEL
100 Chadds Ford Professional Center
6 Dickinson Drive, Suite 103
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ADDITIONS & RENOVATIONS TO:
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PROJECTS
SCHOOL DISTRICT OF LANCASTER
445 N RESERVOIR ST, LANCASTER, PA 17602

ISSUE DATES
DATE: 01/08/2025
DESCRIPTION: BID DOCUMENTS

PROJ # : MM2410 DRAWN BY : ESR

SHEET TITLE:
**CONCRETE RESTORATION WORK - VISITOR BLEACHER**

SHEET NUMBER:
**S1.2**

**BID DOCUMENTS**

1/3/2025 5:03:15 PM

## SCHEDULE OF RESTORATION WORK: 1/S1.3 UNDER SIDE OF CONC.

| LOCATION: | KEY: | REPAIR TYPE: | QUANTITY: | DETAIL: | LOCATION: | KEY: | REPAIR TYPE: | QUANTITY: | DETAIL: |
|---|---|---|---|---|---|---|---|---|---|
| BAY 1 | A | CONCRETE SPALL REPAIR | 33 SQFT | A/S1.2 | BAY 8 | A | CONCRETE SPALL REPAIR | 17 SQFT | A/S1.2 |
| | B | CONCRETE CRACK REPAIR | 66 LFT | B/S1.2 | | B | CONCRETE CRACK REPAIR | 58 LFT | B/S1.2 |
| BAY 2 | A | CONCRETE SPALL REPAIR | 33 SQFT | A/S1.2 | BAY 9 | A | CONCRETE SPALL REPAIR | 42 SQFT | A/S1.2 |
| | B | CONCRETE CRACK REPAIR | 66 LFT | B/S1.2 | | B | CONCRETE CRACK REPAIR | 83 LFT | B/S1.2 |
| BAY 3 | A | CONCRETE SPALL REPAIR | 33 SQFT | A/S1.2 | BAY 10 | A | CONCRETE SPALL REPAIR | 50 SQFT | A/S1.2 |
| | B | CONCRETE CRACK REPAIR | 83 LFT | B/S1.2 | | B | CONCRETE CRACK REPAIR | 9 LFT | B/S1.2 |
| BAY 4 | A | CONCRETE SPALL REPAIR | 33 SQFT | A/S1.2 | BAY 11 | A | CONCRETE SPALL REPAIR | 17 SQFT | A/S1.2 |
| | B | CONCRETE CRACK REPAIR | 116 LFT | B/S1.2 | | B | CONCRETE CRACK REPAIR | 50 LFT | B/S1.2 |
| BAY 5 | A | CONCRETE SPALL REPAIR | 17 SQFT | A/S1.2 | BAY 12 | A | CONCRETE SPALL REPAIR | 25 SQFT | A/S1.2 |
| | B | CONCRETE CRACK REPAIR | 116 LFT | B/S1.2 | | B | CONCRETE CRACK REPAIR | 108 LFT | B/S1.2 |
| BAY 6 | A | CONCRETE SPALL REPAIR | 33 SQFT | A/S1.2 | BAY 13 | A | CONCRETE SPALL REPAIR | 25 SQFT | A/S1.2 |
| | B | CONCRETE CRACK REPAIR | 75 LFT | B/S1.2 | | B | CONCRETE CRACK REPAIR | 83 LFT | B/S1.2 |
| BAY 7 | A | CONCRETE SPALL REPAIR | 42 SQFT | A/S1.2 | BAY 14 | A | CONCRETE SPALL REPAIR | 14 SQFT | A/S1.2 |
| | B | CONCRETE CRACK REPAIR | 33 LFT | B/S1.2 | | B | CONCRETE CRACK REPAIR | 132 LFT | B/S1.2 |
| TOTAL REPAIR | A | CONCRETE SPALL REPAIR | 414 SQFT | | | | | | |
| | B | CONCRETE CRACK REPAIR | 1,078 LFT | | | | | | |

## SCHEDULE OF RESTORATION WORK: 1/S1.3 TOP SIDE OF CONC.

| LOCATION: | KEY: | REPAIR TYPE: | QUANTITY: | DETAIL: | LOCATION: | KEY: | REPAIR TYPE: | QUANTITY: | DETAIL: |
|---|---|---|---|---|---|---|---|---|---|
| BAY 1 | A | CONCRETE SPALL REPAIR | 6 SQFT | A/S1.2 | BAY 8 | A | CONCRETE SPALL REPAIR | 5 SQFT | A/S1.2 |
| | B | CONCRETE CRACK REPAIR | 213 LFT | B/S1.2 | | B | CONCRETE CRACK REPAIR | 171 LFT | B/S1.2 |
| BAY 2 | A | CONCRETE SPALL REPAIR | 6 SQFT | A/S1.2 | BAY 9 | A | CONCRETE SPALL REPAIR | 5 SQFT | A/S1.2 |
| | B | CONCRETE CRACK REPAIR | 213 LFT | B/S1.2 | | B | CONCRETE CRACK REPAIR | 171 LFT | B/S1.2 |
| BAY 3 | A | CONCRETE SPALL REPAIR | 6 SQFT | A/S1.2 | BAY 10 | A | CONCRETE SPALL REPAIR | 5 SQFT | A/S1.2 |
| | B | CONCRETE CRACK REPAIR | 213 LFT | B/S1.2 | | B | CONCRETE CRACK REPAIR | 171 LFT | B/S1.2 |
| BAY 4 | A | CONCRETE SPALL REPAIR | 5 SQFT | A/S1.2 | BAY 11 | A | CONCRETE SPALL REPAIR | 4 SQFT | A/S1.2 |
| | B | CONCRETE CRACK REPAIR | 192 LFT | B/S1.2 | | B | CONCRETE CRACK REPAIR | 149 LFT | B/S1.2 |
| BAY 5 | A | CONCRETE SPALL REPAIR | 5 SQFT | A/S1.2 | BAY 12 | A | CONCRETE SPALL REPAIR | 4 SQFT | A/S1.2 |
| | B | CONCRETE CRACK REPAIR | 171 LFT | B/S1.2 | | B | CONCRETE CRACK REPAIR | 128 LFT | B/S1.2 |
| BAY 6 | A | CONCRETE SPALL REPAIR | 5 SQFT | A/S1.2 | BAY 13 | A | CONCRETE SPALL REPAIR | 4 SQFT | A/S1.2 |
| | B | CONCRETE CRACK REPAIR | 171 LFT | B/S1.2 | | B | CONCRETE CRACK REPAIR | 128 LFT | B/S1.2 |
| BAY 7 | A | CONCRETE SPALL REPAIR | 5 SQFT | A/S1.2 | BAY 14 | A | CONCRETE SPALL REPAIR | 4 SQFT | A/S1.2 |
| | B | CONCRETE CRACK REPAIR | 171 LFT | B/S1.2 | | B | CONCRETE CRACK REPAIR | 128 LFT | B/S1.2 |
| TOTAL REPAIR | A | CONCRETE SPALL REPAIR | 69 SQFT | | | | | | |
| | B | CONCRETE CRACK REPAIR | 2390 LFT | | | | | | |

## CONCRETE BLEACHER CLEANING & COATING NOTES:

SURFACE PREPARATION:

- ALL AREAS W/ EXISTING COATING SHALL BE CLEANED BY WATER BLASTING W/ A MINIMUM OF 5000 PSI & PREPARED TO ACHIEVE A LAITANCE & CONTAMINANT-FREE SURFACE. CLEANING MAY BE ACHIEVED W/ EQUIVALENT MECHANICAL MEANS SUCH AS LIGHT CUP WHEEL GRINDING. SURFACES MUST BE THOROUGHLY CLEANED FREE OF ALL LOOSE PARTICULATES THAT MAY INTERFERE W/ BONDING.
- ALL EXPOSED BARE CONCRETE & NEWLY REPAIRED CONCRETE PATCHES SHALL BE CLEANED & PREPARED TO ACHIEVE A LAITANCE, OPEN-TEXTURED, & CONTAMINANT-FREE SURFACE BY MECHANICAL MEANS. THE DESIRED SURFACE TEXTURE OF ALL EXPOSED SIST BARE CONCRETE & NEWLY REPAIRED CONCRETE SHALL HAVE A SURFACE TEXTURE OF CSP 3 PER ICRI GUIDELINES. IN ADDITION, THE SUBSTRATE SURFACE SHALL BE THOROUGHLY CLEANED BY BLOWING/VACUUMING TO REMOVE ALL PARTICULATES THAT MAY INTERFERE W/ BONDING.

DETAILING CRACKS & JOINTS:

- AS PER THE MOST RECENT PRODUCT DATA SHEET FOR THE SIKALASTIC-726 BALCONY ONE SHOT.

PRIMING

- ALL SURFACE AREAS TO BE COATED SHALL BE PRIMED W/ **SIKADUR 22 LOMOD FS.** APPLY W/ A FLAT SQUEEGEE OR ROLLER AT APPROXIMATELY 160 SF/GAL. APPLY EVENLY W/OUT PUDDLING. ALLOW PRIMER TO CURE UNTIL TACK-FREE, TYPICALLY 2-4 HOURS (AT 75°F ~ 50 % R. H). SIKADUR®-22 LO-MOD FS SHALL BE OVERCOATED W/IN 36 HOURS AFTER TACK-FREE.

COATING

- APPLY SIKALASTIC®-726 BALCONY ONE SHOT AT 37 SF/GAL TO YIELD 38 WFT USING A NOTCHED SQUEEGEE OR TROWEL (RECOMMEND: 1/4" V-NOTCHED SQUEEGEE OR TROWEL) & BACKROLL USING A PHENOLIC RESIN CORE ROLLER (3/8"). THE AREA SHALL BE BACK ROLLED (2) TIMES, (1) PERPENDICULAR TO THE OTHER.
- EXTEND COATING OVER ENTIRE AREA INCLUDING PREVIOUSLY DETAILED CRACKS & JOINTS.
- COATING SHALL BE TACK-FREE AFTER ABOUT 6 HOURS AT 70 °F & 50 % RH. ALLOW COATING TO CURE FOR A MINIMUM OF 8 HOURS BEFORE OPENING TO PEDESTRIAN TRAFFIC.

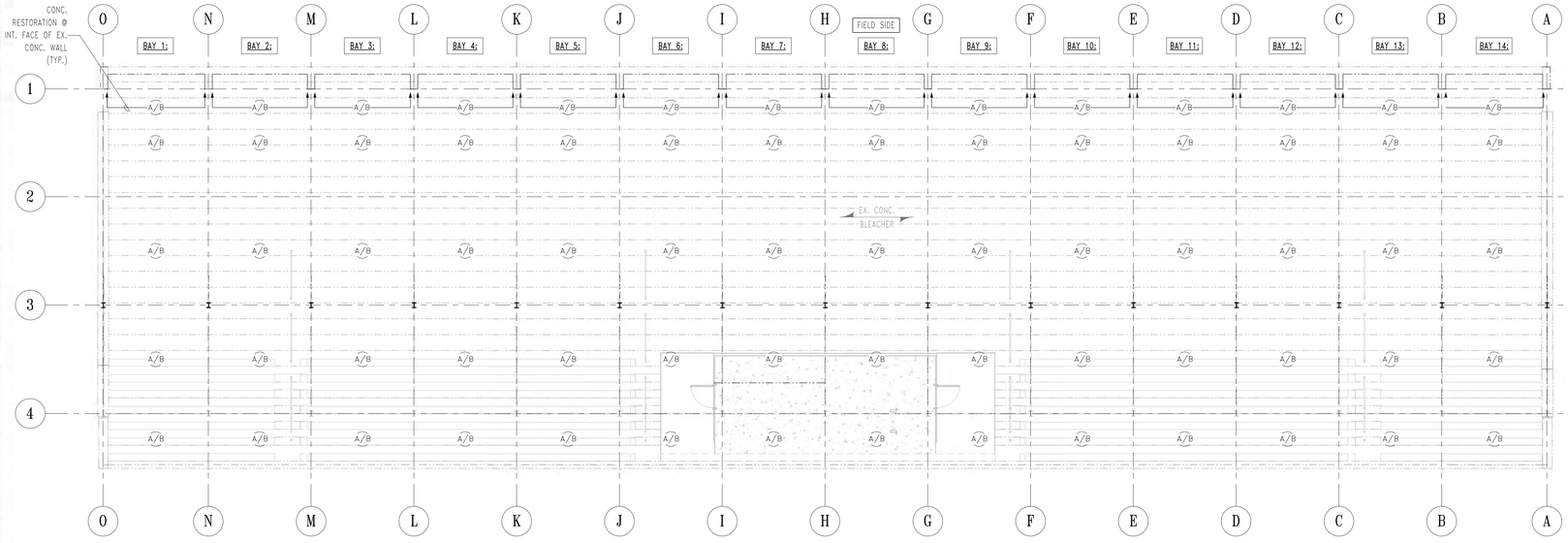
SAMPLE & ADHESIONS TEST

- A MINIMUM 5'-0"X5'-0" SAMPLE OF THE COMPLETE TRAFFIC COATING SYSTEM SHALL BE PROVIDED ON-SITE BY THE INSTALLER PRIOR TO START OF THE COATING INSTALLATION. THE PURPOSE OF THIS SAMPLE IS TO APPROVE THE MEANS & METHODS OF SURFACE PREPARATION THAT WILL BE UTILIZED & TO ENSURE DESIRED APPEARANCE & WORKMANSHIP OF THE OF THE FINISHED PRODUCT.
- THE MANUFACTURER WILL BE PRESENT DURING THE INSTALLATION OF THE SAMPLES & CONDUCT A FIELD ADHESION TEST TO ENSURE THAT THE SYSTEM HAS ACHIEVED ADEQUATE BOND TO THE PREPARED SUBSTRATE.

## TYPICAL PLAN NOTES:

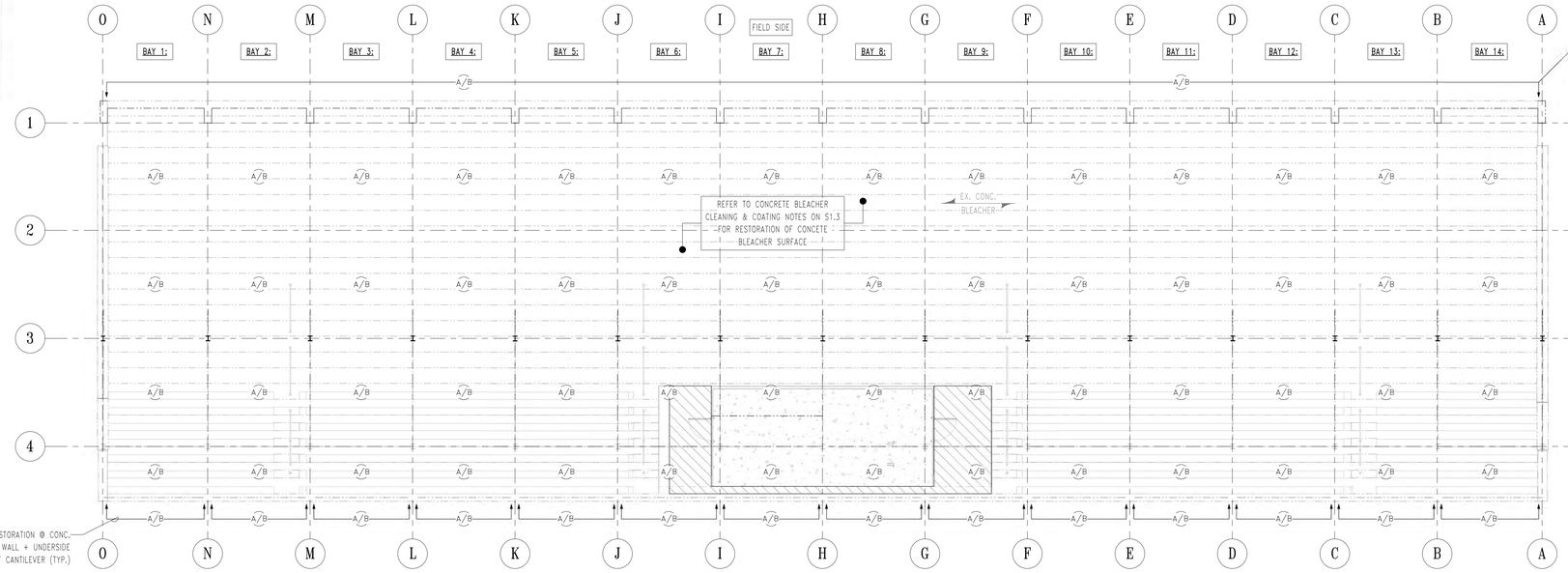
1. RESTORATION QUANTITIES SHOWN ARE FOR AREAS SHOWN ON THE REPAIR PLAN NOTED ONLY.
2. ◯ ITEM NOTED ON PLAN REPRESENTS APPROXIMATE QUANTITY OF REPAIR. CONTRACTOR SHALL SOUND THE CONCRETE SURFACES AND LAY-OUT REPAIR AREAS & IDENTIFY QUANTITIES FOR JBA TO REVIEW AND CONFIRM PRIOR TO START OF WORK.
3. RESTORATIONS CONTRACTOR SHALL VISIT THE SITE TO REVIEW QUANTITIES & SCOPE OF WORK PRIOR TO SUBMITTING BID.

* NOTES ARE APPLICABLE FOR SCHEDULES 1 & 2/S1.3.

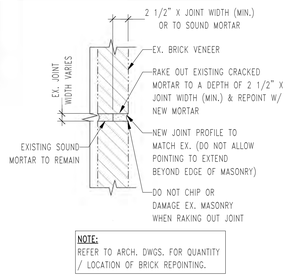



1/S1.3 = HOME BLEACHER - UNDER SIDE CONC. RESTOR. PLAN
SCALE: 1/8" = 1'-0"

VERIFY IN FIELD EXTENT OF CONC. RESTORATION WORK @ EXT. FACE OF CONC. WALL AFTER DEMOLITION OF FRONT CONC. BLEACHERS. CONTACT JBA PRIOR TO INITIATION OF RESTORATION WORK @ THIS WALL.

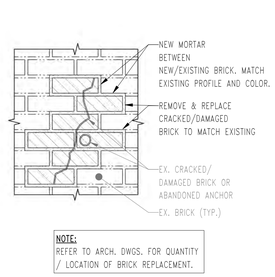



2/S1.3 = HOME BLEACHER - TOP SIDE CONC. RESTOR. PLAN
SCALE: 1/8" = 1'-0"




NOTE: REFER TO ARCH. DWGS. FOR QUANTITY / LOCATION OF BRICK REPOINTING.

A/S1.3 TYP. BRICK REPOINTING DETAIL
SCALE: N.T.S.




NOTE: REFER TO ARCH. DWGS. FOR QUANTITY / LOCATION OF BRICK REPLACEMENT.

B/S1.3 TYP. BRICK REMOVAL & REPLACE. DETAIL
SCALE: N.T.S.



3/S1.3 TYP. CONC. CRACK COND. ABOVE DECK
SCALE: N.T.S.



4/S1.3 TYP. CONC. CRACK COND. BELOW DECK
SCALE: N.T.S.



5/S1.3 TYP. CONC. SPALL COND. ABOVE DECK
SCALE: N.T.S.



6/S1.3 TYP. CONC. SPALL COND. BELOW DECK
SCALE: N.T.S.

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CONSULTANT:
JBA Joseph Barbato Associates
STRUCTURAL ENGINEERS · ACHIEVING A HIGHER LEVEL
100 Chadds Ford Professional Center
6 Dickinson Drive, Suite 103
Chadds Ford, PA 19317-9688
phone: 610-558-8050
WWW.JBarbato.com


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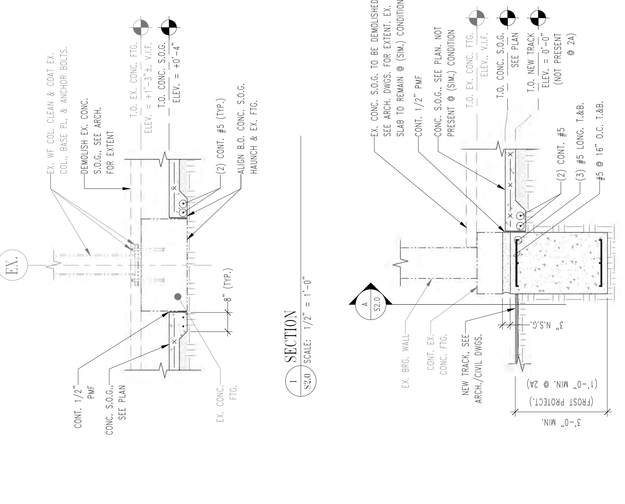
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DATE: 01/08/2025 DESCRIPTION: BID DOCUMENTS

PROJ # : MM2410 DRAWN BY : ESR

SHEET TITLE:
**CONCRETE RESTORATION WORK - HOME BLEACHER**

SHEET NUMBER:
**S1.3**

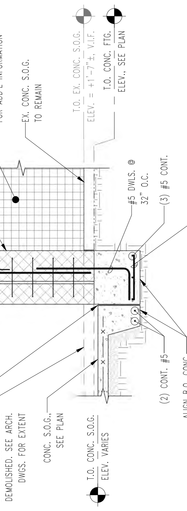
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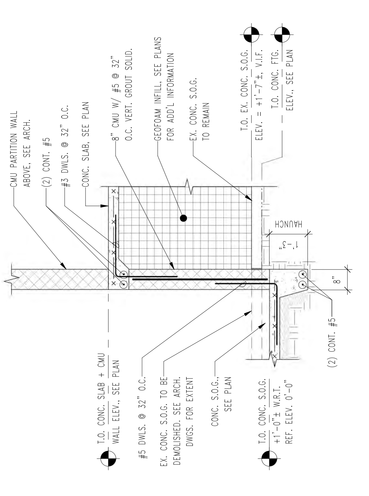

5 SECTION
S2.0 SCALE: 1/2" = 1'-0"



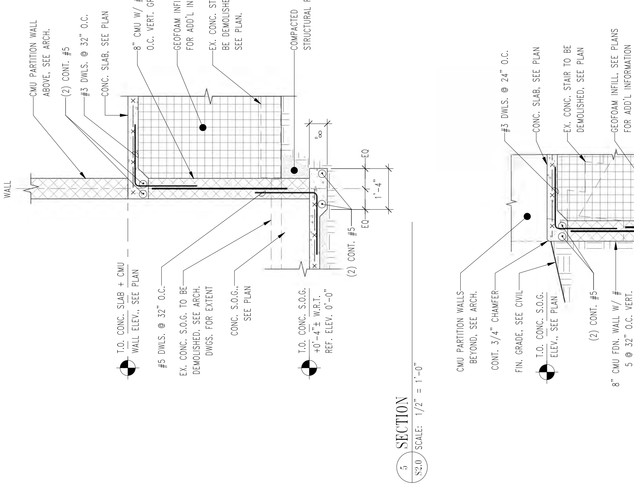

6 SECTION
S2.0 SCALE: 1/2" = 1'-0"




7 SECTION
S2.0 SCALE: 1/2" = 1'-0"



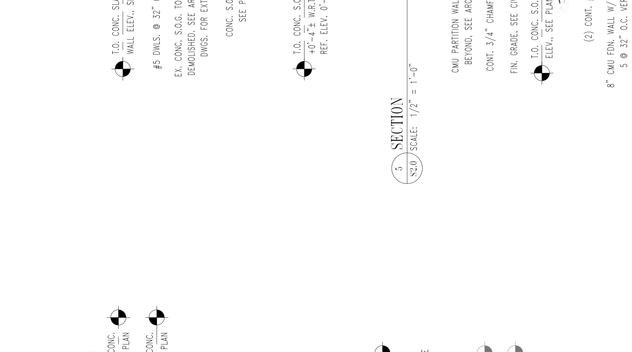

3 SECTION
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2 SECTION
S2.0 SCALE: 1/2" = 1'-0"



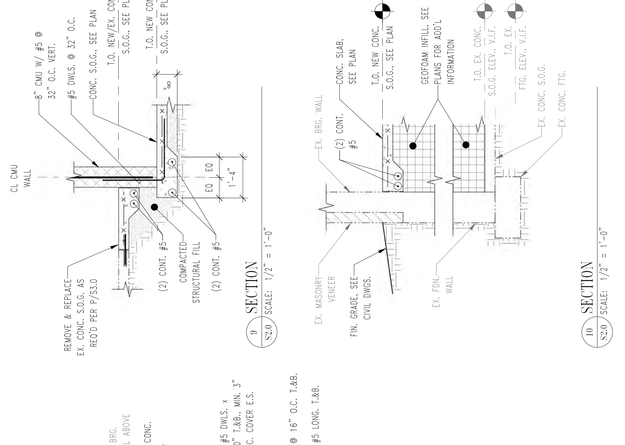

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4 SECTION
S2.0 SCALE: 1/2" = 1'-0"



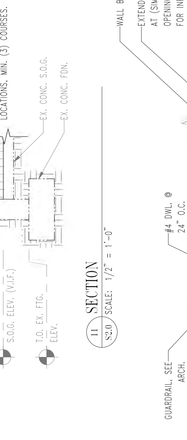

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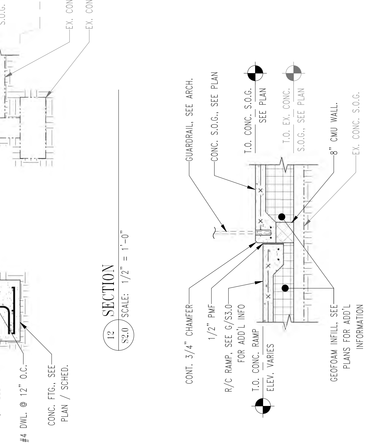

A TYPICAL UNDERPINNING DETAIL
S2.0 SCALE: 1/2" = 1'-0"




B TYPICAL CMU WALL INFILL DETAIL
S2.0 SCALE: 1/4" = 1'-0"




C TYPICAL EXTERIOR SLAB TURN-DOWN
S2.0 SCALE: N.T.S.



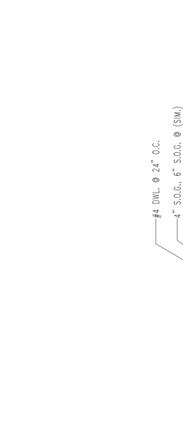

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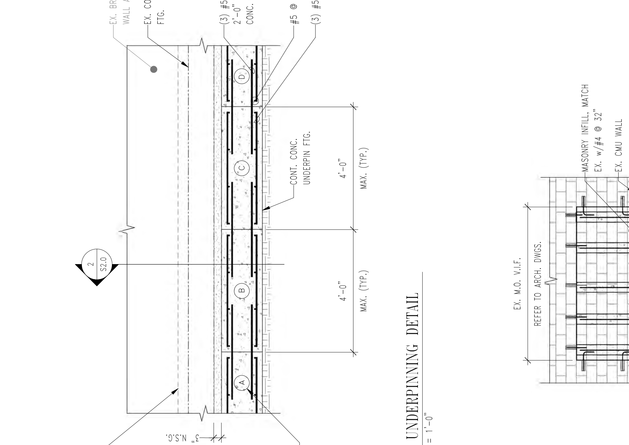

13 SECTION
S2.0 SCALE: 1/2" = 1'-0"




14 SECTION
S2.0 SCALE: 1/2" = 1'-0"




9 SECTION
S2.0 SCALE: 1/2" = 1'-0"




11 SECTION
S2.0 SCALE: 1/2" = 1'-0"




10 SECTION
S2.0 SCALE: 1/2" = 1'-0"


CONSULTANT:
JBA Joseph Barbato Associates
STRUCTURAL ENGINEERS - ACHIEVING A HIGHER LEVEL
100 Chadds Ford Professional Center
6 Dickinson Drive, Suite 103
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phone: 610-558-6050
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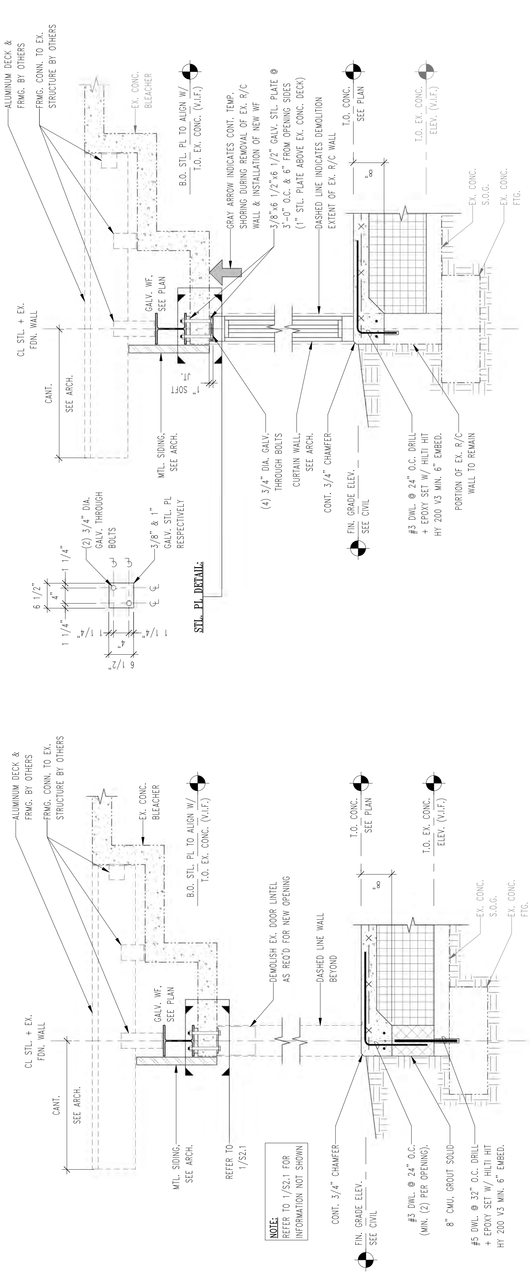
SHEET TITLE:
SECTION DETAILS

SHEET NUMBER:
S2.0

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phone: 610-558-6050
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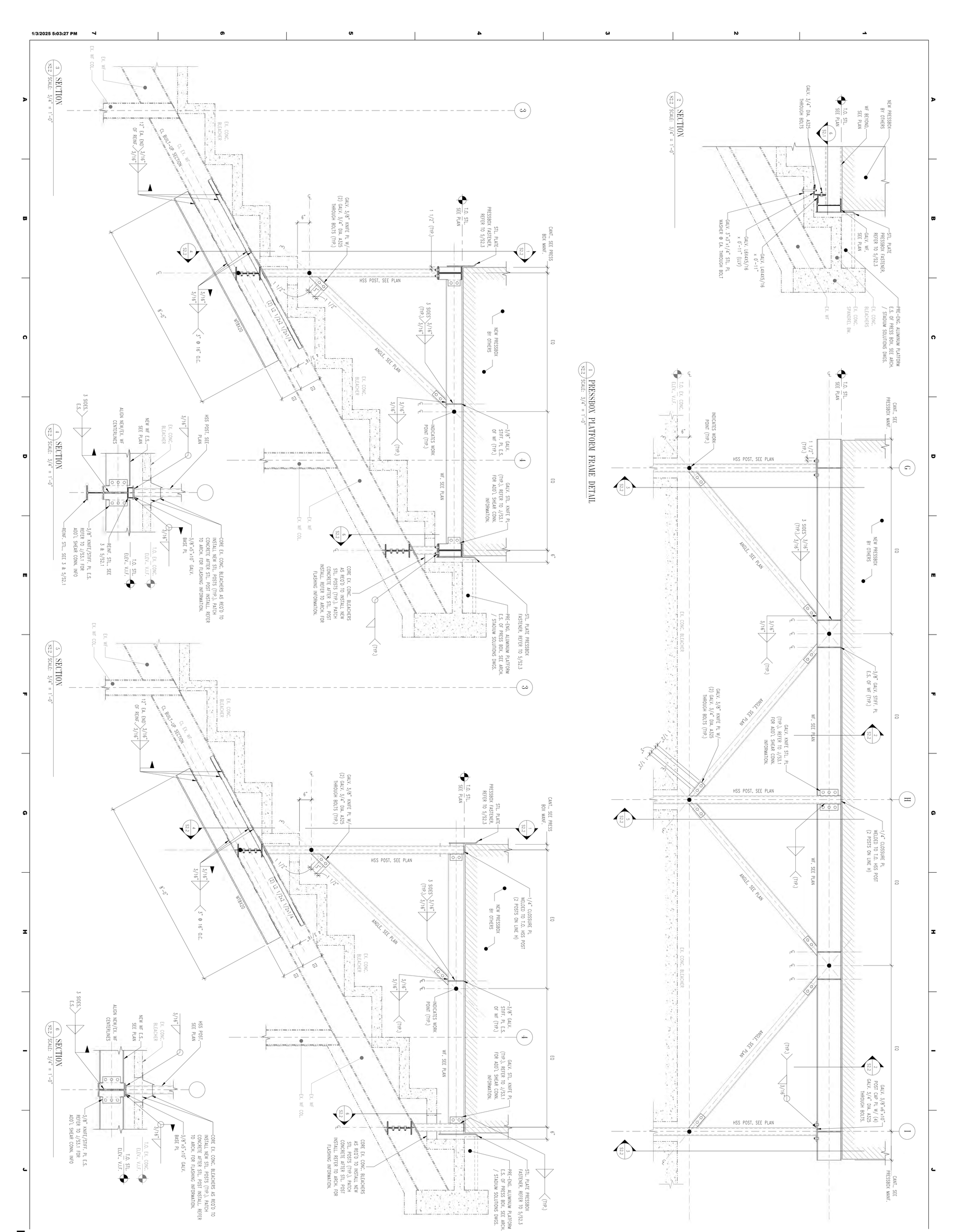
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SECTION DETAILS

SHEET NUMBER:
S2.1

BID DOCUMENTS

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**ISSUE DATES**

| DATE: | DESCRIPTION: |
|---|---|
| 01/08/2025 | BID DOCUMENTS |

**SHEET TITLE:** SECTION DETAILS

PROJ #: MM2410

DRAWN BY: ESR

**SHEET NUMBER:** S2.2

BID DOCUMENTS


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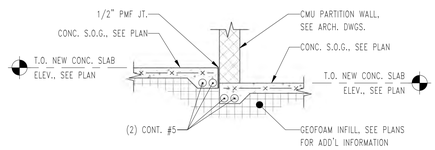


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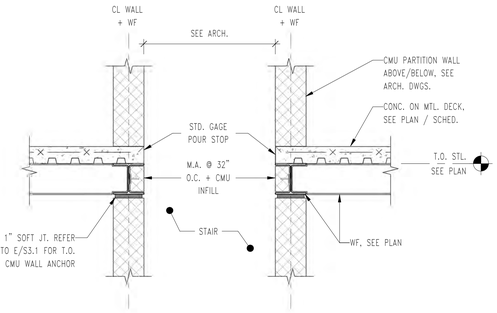
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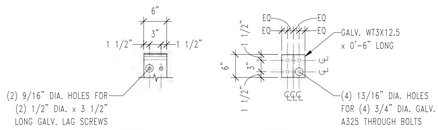

7 / S2.3 TYP. STL. CLEAN + COAT COND. - HOME BLEACHERS
SCALE: N.T.S.

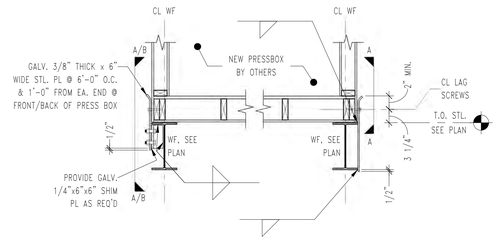



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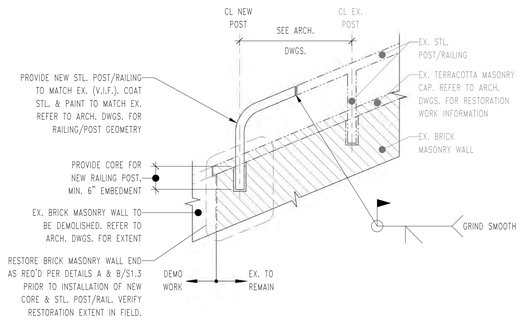



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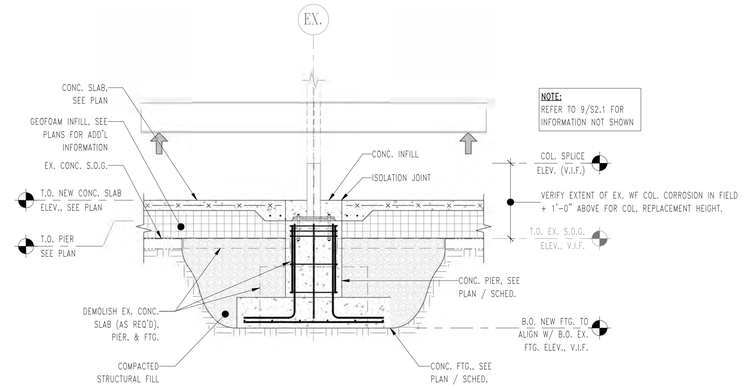


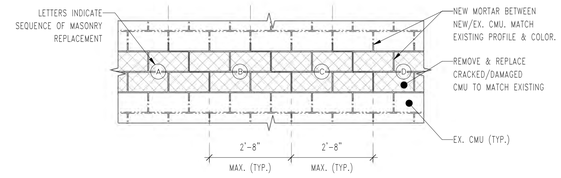

5 / S2.3 STL. PLATE PRESS BOX FASTENER DETAIL
SCALE: 3/4" = 1'-0"



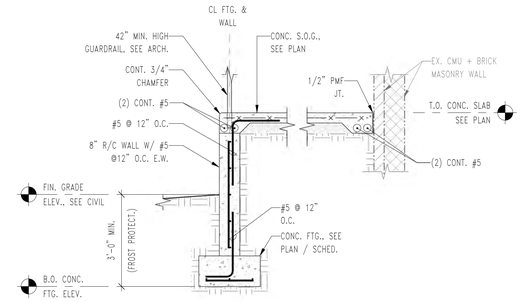

6 / S2.3 RAILING TERMINATION DETAIL
SCALE: 3/4" = 1'-0"



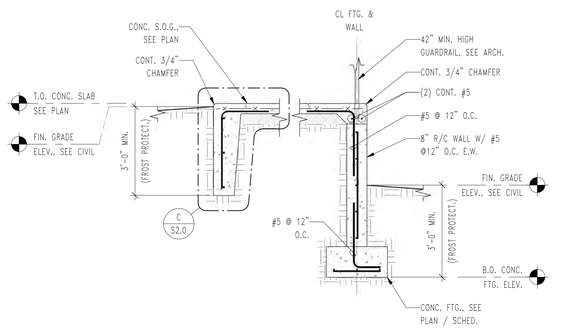

1 / S2.3 FTG. & COL. REMOVAL & REPLACEMENT DETAIL
SCALE: 1/2" = 1'-0"




1 / S2.3 TYPICAL CMU REMOVAL & REPLACEMENT DETAIL
SCALE: N.T.S.




3 / S2.3 SECTION
SCALE: 1/2" = 1'-0"




4 / S2.3 SECTION
SCALE: 1/2" = 1'-0"

1/3/2025 5:03:29 PM

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School District of Lancaster
Together We Can!

CONSULTANT:

JBA Joseph Barbato Associates
STRUCTURAL ENGINEERS · ACHIEVING A HIGHER LEVEL
100 Chadds Ford Professional Center
6 Dickinson Drive, Suite 103
Chadds Ford, PA 19317-9689
phone: 610-558-8050
WWW.JBarbato.com

ADDITIONS & RENOVATIONS TO:
J.P. MCCASKEY STADIUM
PROJECTS
SCHOOL DISTRICT OF LANCASTER
445 N RESERVOIR ST, LANCASTER, PA 17602

ISSUE DATES
DATE:
DESCRIPTION:

PROJ # : MM2410
DRAWN BY : Author

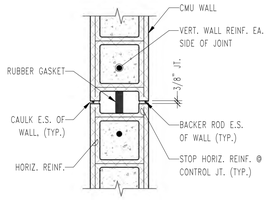
SHEET TITLE:

SECTION DETAILS

SHEET NUMBER:

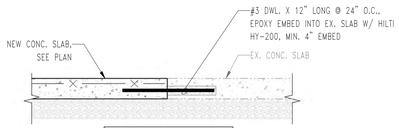
S2.3

BID DOCUMENTS



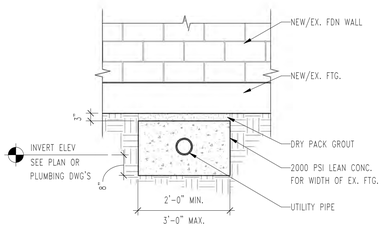

NOTES:
1. REFER TO GENERAL NOTES & ARCH. DWGS. FOR SPACING REQUIREMENTS
2. A KEYED CMU MAY BE USED IN LIEU OF RUBBER GASKET SHOWN.

X / S3.0 TYPICAL CMU WALL CONTROL JOINT
SCALE: N.T.S.

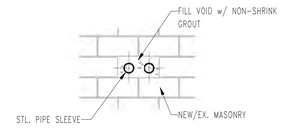



NOTE: CONTRACTOR SHALL COORD. EXTENT OF NEW SLAB INFILL W/ ARCH AND MEP DWGS.

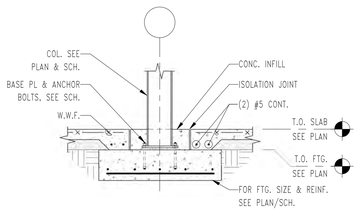
P / S3.0 NEW TO EX. SLAB-ON-GRADE DETAIL
SCALE: 1" = 1'-0"



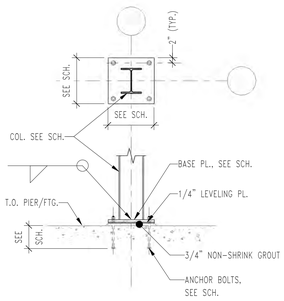

Q / S3.0 TYP. UTILITY UNDER WALL
SCALE: N.T.S.



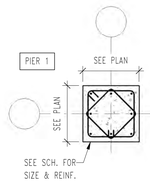

R / S3.0 TYP. UTILITY THROUGH FDN WALL
SCALE: N.T.S.



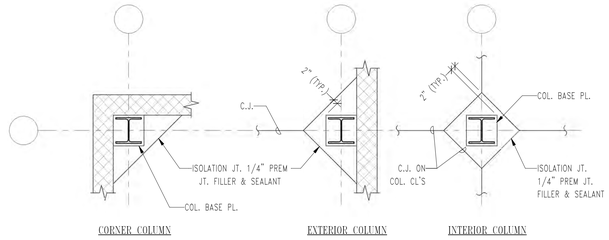

J / S3.0 TYPICAL INTERIOR COLUMN FOOTING
SCALE: N.T.S.




K / S3.0 TYPICAL COLUMN BASE PLATE
SCALE: N.T.S.

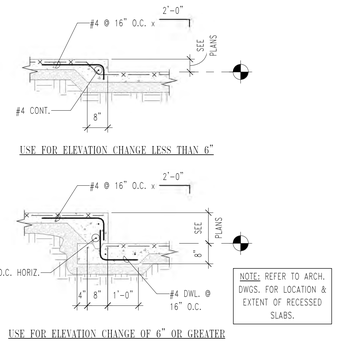



L / S3.0 TYPICAL PIER REINFORCEMENT
SCALE: N.T.S.



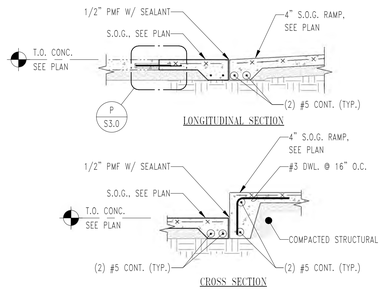

NOTES:
1. PROTECT ISOLATION DIAMOND AREA FROM WATER INTRUSION PRIOR TO PLACEMENT OF CONCRETE DIAMOND.
2. POUR CONCRETE WITHIN ISOLATION JOINT DOWN TO TOP OF PIER OR FOOTING AFTER COLUMN AND SLAB ARE INSTALLED.
3. ISOLATION JOINT SIMILAR AT PERIMETER COLUMNS.

E / S3.0 TYPICAL S.O.G. ISOLATION JOINT
SCALE: N.T.S.

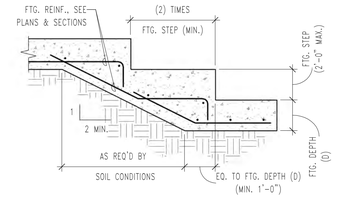



NOTE: REFER TO ARCH. DWGS. FOR LOCATION & EXTENT OF RECESSED SLABS.

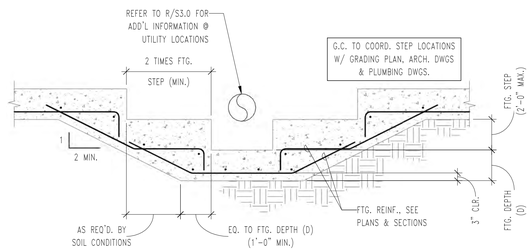
F / S3.0 TYPICAL S.O.G. RECESS
SCALE: N.T.S.



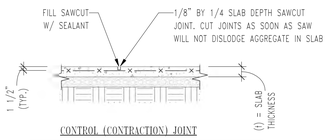

G / S3.0 TYPICAL S.O.G. RAMP
SCALE: N.T.S.




A / S3.0 TYPICAL STEP FOOTING
SCALE: N.T.S.

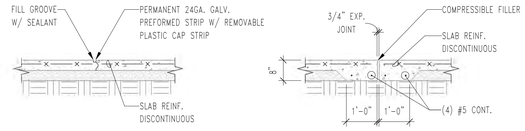



B / S3.0 TYPICAL STEP FOOTING AT UTILITY
SCALE: N.T.S.




CONTROL (CONTRACTION) JOINT

NOTE:
PROVIDE CONTROL JOINTS @ 36 TIMES (t) (12'-0"O.C. MAX.)

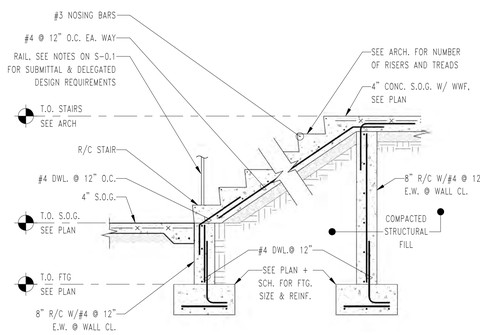



CONSTRUCTION JOINT

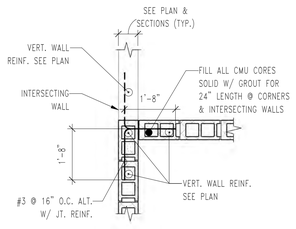
EXPANSION JOINT

NOTE:
CONTRACTOR TO ADEQUATELY BRACE PREFORMED STRIP TO MAINTAIN STRAIGHT ALIGNMENT OF SCREED

C / S3.0 TYPICAL S.O.G. CONTROL, CONST. & EXP. JOINTS
SCALE: N.T.S.

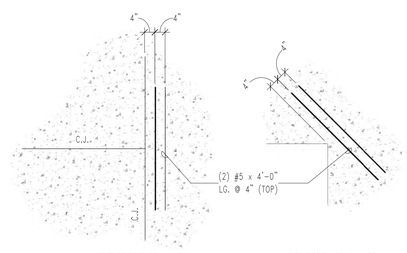



H / S3.0 TYPICAL R/C STAIR
SCALE: N.T.S.




WALL SECTION @ CORNER/INTERSECTION

M / S3.0 TYPICAL CMU WALL CORNER & INTERSECTION REINF.
SCALE: N.T.S.




D / S3.0 TYPICAL S.O.G. CRACK CONTROL
SCALE: N.T.S.

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CONSULTANT:
JBA Joseph Barbato Associates
STRUCTURAL ENGINEERS · ACHIEVING A HIGHER LEVEL
100 Chadds Ford Professional Center
6 Dickinson Drive, Suite 103
Chadds Ford, PA 19317-9689
phone: 610-558-6050
WWW.JBarbato.com

ADDITIONS & RENOVATIONS TO:
J.P. MCCASKEY STADIUM
PROJECTS
SCHOOL DISTRICT OF LANCASTER
445 N RESERVOIR ST, LANCASTER, PA 17602

ISSUE DATES
DATE: 01/09/2025
DESCRIPTION: BID DOCUMENTS

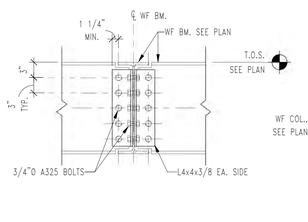
PROJ #: MM2410
DRAWN BY: ESR

SHEET TITLE:
TYPICAL DETAILS

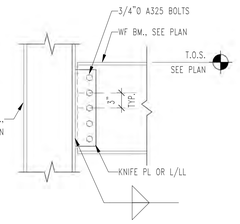
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S3.0

BID DOCUMENTS

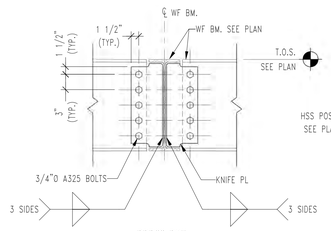
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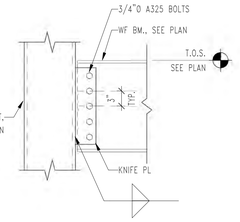

MEZZANINE:
BEAM-TO-BEAM CONNECTION




MEZZANINE:
BEAM-TO-COLUMN CONNECTION




PRESS BOX:
BEAM-TO-BEAM CONNECTION



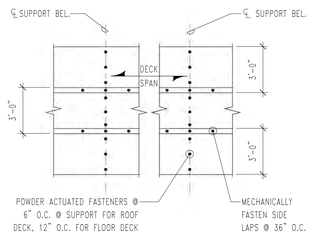

PRESS BOX:
BEAM-TO-COLUMN CONNECTION

SHEAR CONNECTION SCHEDULE

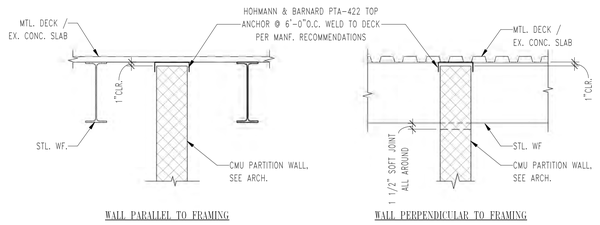
| MEZZANINE (HOME BLEACHERS) | | | | PRESS BOX (HOME BLEACHERS) | | | | |
|---|---|---|---|---|---|---|---|---|
| DEPTH OF WF | ASD SHEAR DESIGN LOAD (KIPS) DL | LL | MIN. # OF BOLT ROWS | DEPTH OF WF | ASD SHEAR DESIGN LOAD (KIPS) DL | LL | LLR | MIN. # OF BOLT ROWS |
| 8 | 8 | 5 | 2 | 8 | 1 | 3 | – | 2 |
| 10 | 8 | 5 | 2 | 10 | – | – | – | 2 |
| 12 | – | – | 3 | 12 | 4 | 3 | 3 | 3 |

NOTES:
1. INFORMATION SHOWN IS SCHEMATIC AND INCLUDED FOR PRICING ONLY. CONNECTIONS ARE TO BE DESIGNED BY STEEL FABRICATOR PER "STRUCTURAL STEEL NOTES" ON S-0.1 IN ACCCORDANCE WITH AISC 303-16 CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES 3.1.1 "OPTION 3"
2. REFER TO PLAN FOR INSTANCES OF CONNECTION LOADS GREATER THAN TYPICAL LOADS NOTED IN SCHEDULE ABOVE.

J / S3.1 TYPICAL WF SHEAR CONNECTION DETAIL
SCALE: N.T.S.



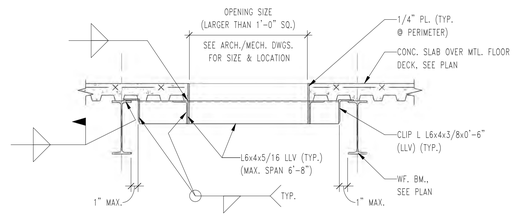

K / S3.1 TYPICAL DECK CONNECTION
SCALE: N.T.S.




WALL PARALLEL TO FRAMING

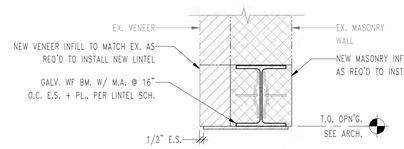
WALL PERPENDICULAR TO FRAMING

E / S3.1 TYPICAL CMU PARTITION BRACING
SCALE: N.T.S.

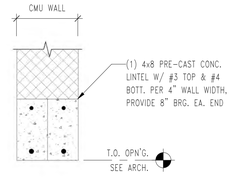



NOTE:
SUPPLY L6x4 + 1/4" PL @ PERIMETER AROUND ALL PENETRATIONS THROUGH FLOOR.

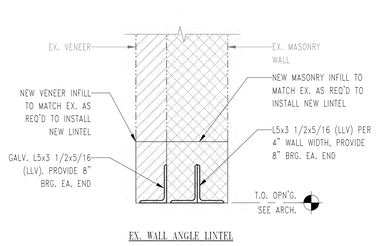
F / S3.1 TYPICAL SUPPORT @ FLOOR OPENING
SCALE: N.T.S.



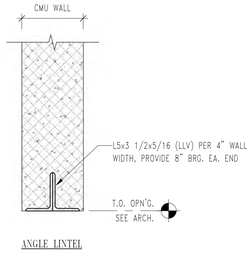

EX. WALL WF LINTEL



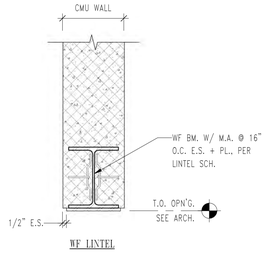

P.C. LINTEL




EX. WALL ANGLE LINTEL

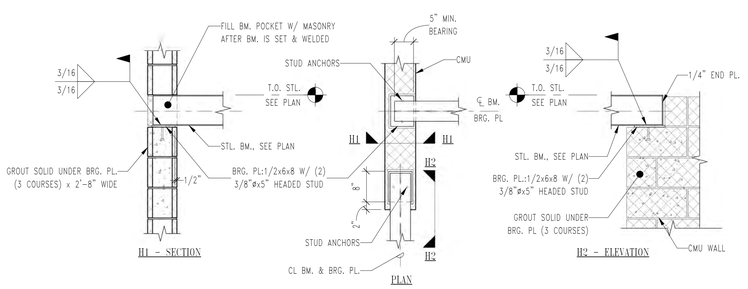



ANGLE LINTEL




WF LINTEL

G / S3.1 TYPICAL LINTELS
SCALE: N.T.S.

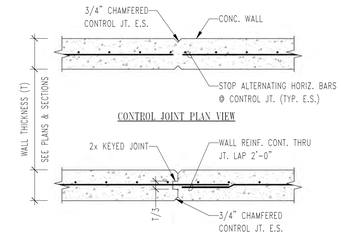



H1 - SECTION

PLAN

H2 - ELEVATION

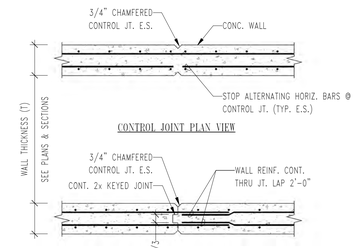
H / S3.1 TYPICAL BEAM BEARING ON CMU WALL
SCALE: N.T.S.




CONSTRUCTION JOINT PLAN VIEW

NOTES:
1. CONTRACTOR TO SUBMIT C.J. LOCATION FOR REVIEW & APPROVAL (MAX. SPACING 15'-0" O.C.)
2. SEE SECTIONS FOR WALL REINFORCEMENT

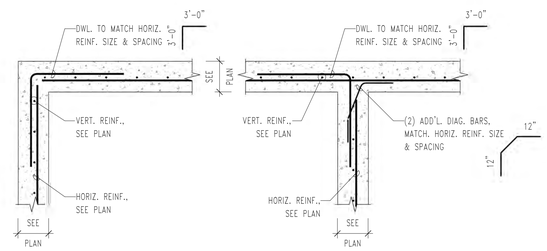
A / S3.1 TYPICAL R/C WALL JOINTS
SCALE: N.T.S.




CONSTRUCTION JOINT PLAN VIEW

NOTES:
1. CONTRACTOR TO SUBMIT C.J. LOCATION FOR REVIEW & APPROVAL (MAX. SPACING 15'-0" O.C.)
2. SEE SECTIONS FOR WALL REINFORCEMENT

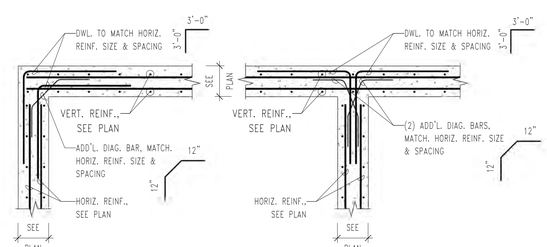
B / S3.1 TYPICAL R/C WALL JOINTS
SCALE: N.T.S.




R/C WALL REINF. @ CORNER

R/C WALL REINF. @ INTERSECTION

C / S3.1 TYPICAL R/C WALL CORNER & INTERSECTION REINF.
SCALE: N.T.S.




R/C WALL REINF. @ CORNER

R/C WALL REINF. @ INTERSECTION

D / S3.1 TYPICAL R/C WALL REINFORCEMENT
SCALE: N.T.S.


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CONSULTANT:
JBA Joseph Barbato Associates
STRUCTURAL ENGINEERS · ACHIEVING A HIGHER LEVEL
100 Chadds Ford Professional Center
6 Dickinson Drive, Suite 103
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phone: 610-558-8050
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PROJECTS
SCHOOL DISTRICT OF LANCASTER
445 N RESERVOIR ST, LANCASTER, PA 17602

ISSUE DATES
DATE: 01/08/2025
DESCRIPTION: BID DOCUMENTS

PROJ # : MM2410 DRAWN BY : ESR

SHEET TITLE:
TYPICAL DETAILS

SHEET NUMBER:
S3.1

BID DOCUMENTS

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## MECHANICAL EXISTING AND DEMOLITION SYMBOL SCHEDULE

(APPLY TO ALL NEW WORK DRAWINGS)

- EXISTING DUCT TO REMAIN
- REMOVE DUCT
- CAP EXISTING DUCT
- EXISTING PIPE TO REMAIN
- REMOVE PIPE
- EXISTING PIPE CAP
- CAP EXISTING PIPE
- EXISTING DIFFUSER TO REMAIN
- REMOVE DIFFUSER
- EXISTING REGISTER TO REMAIN
- REMOVE REGISTER
- REMOVE CONVECTOR
- REMOVE CABINET HEATER
- REMOVE CABINET HEATER
- REMOVE EXHAUST FAN
- REMOVE GRAVITY VENTILATOR
- REMOVE WALL FIN
- REMOVE FAN COIL UNIT
- REMOVE AIR HANDLER
- REMOVE LOUVER
- REMOVE THERMOSTAT
- REMOVE HUMIDISTAT
- REMOVE AIR SEPARATOR
- REMOVE PUMP
- REMOVE EXPANSION TANK
- EXISTING CHILLED WATER SUPPLY/RETURN PIPING TO REMAIN
- EXISTING HOT WATER SUPPLY/RETURN PIPING TO REMAIN
- REMOVE CHILLED WATER SUPPLY/RETURN PIPING
- REMOVE HOT WATER SUPPLY/RETURN PIPING
- POINT OF DISCONNECTION, EXISTING AND DEMOLITION

## NOTES:

(THESE NOTES APPLY TO ALL DEMOLITION DRAWINGS)

1. MECHANICAL CONTRACTOR SHALL REMOVE ALL HVAC EQUIPMENT SCHEDULED ABOVE UNLESS NOTED OTHERWISE ON PLANS.

2. MECHANICAL CONTRACTOR SHALL REMOVE ALL CONTROLS, PIPING, DUCTWORK AND LOUVERS ASSOCIATED WITH HVAC EQUIPMENT TO BE REMOVED; EVEN IF NOT SHOWN ON THE PLANS.

3. MECHANICAL CONTRACTOR IS RESPONSIBLE FOR PATCHING ALL OPENINGS TO MATCH EXISTING WHERE EQUIPMENT IS REMOVED AND NOT REPLACED OR NEW EQUIPMENT SIZE DIFFERS FROM REMOVED EQUIPMENT.

4. DEMOLITION PLANS ARE SCHEMATIC AND NOT INTENDED TO SHOW EXACT LOCATIONS OF EQUIPMENT AND MATERIALS TO BE REMOVED. CONTRACTOR SHALL VERIFY LOCATIONS OF ALL EQUIPMENT, PIPING, DUCTWORK, CONTROLS ETC.

5. MECHANICAL CONTRACTOR SHALL REMOVE ALL SUPPORTS, PADS, ETC., ASSOCIATED WITH EQUIPMENT BEING REMOVED.

6. THESE DEMOLITION PLANS WERE PREPARED FROM ON-SITE SURVEYS AND ORIGINAL CONSTRUCTION DOCUMENTS. IN AN EFFORT TO PROVIDE THIS CONTRACTOR WITH THE GENERAL SCOPE OF THE PROJECT, THESE DEMOLITION PLANS WERE PREPARED TO SHOW AND/OR NOTE THE EXISTING CONDITIONS TO THE BEST OF THE ENGINEER'S KNOWLEDGE. IT IS STILL THE RESPONSIBILITY OF THE MECHANICAL CONTRACTOR TO VISIT THE SITE AND INCLUDE IN THE BID ALL OTHER DEMOLITION WORK REQUIRED FOR REMOVAL OF ALL MECHANICAL EQUIPMENT. REFER TO THE ARCHITECTURAL DRAWINGS FOR THE COMPLETE BUILDING DEMOLITION PLANS. REFER TO ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR DEMOLITION PHASING.

## MECHANICAL NEW SYMBOL SCHEDULE

- DIFFUSER
- REGISTER
- SIDEWALL DIFFUSER
- SIDEWALL REGISTER
- EXHAUST LOUVER
- INTAKE LOUVER
- BALANCING DAMPER
- FIRE DAMPER
- ATC MOTORIZED DAMPER
- SQUARE DUCT ELBOW WITH TURNING VANES
- THERMOSTAT
- COMBINATION THERMOSTAT-HUMIDISTAT
- CO2 SENSOR
- CONTROL SWITCH
- HWS — HOT WATER SUPPLY PIPE
- HWR — HOT WATER RETURN PIPE
- CWS — CHILLED WATER SUPPLY PIPE
- CWR — CHILLED WATER RETURN PIPE
- REFRIGERANT PIPING
- CHECK VALVE
- SHUTOFF VALVE
- BALL VALVE
- 3-WAY ATC VALVE
- 2-WAY ATC VALVE
- GATE VALVE
- AIR SEPARATOR
- PRESSURE REDUCING VALVE
- BALANCING VALVE
- ROOFTOP AIR HANDLING UNIT
- INLINE EXHAUST FAN
- CEILING EXHAUST FAN
- ROOFTOP EXHAUST FAN
- ROUND GRAVITY ROOF VENTILATOR
- RECTANGULAR GRAVITY ROOF VENTILATOR
- FINNED TUBE RADIATION
- POINT OF CONNECTION NEW TO EXISTING

## MECHANICAL NOTES:

(THESE NOTES APPLY TO ALL MECHANICAL DRAWINGS)

1. FOR THE HOT WATER SYSTEM, THE MECHANICAL CONTRACTOR SHALL PROVIDE MANUAL AIR VENTS AT ALL HIGH POINTS IN THE SYSTEM AND AT EACH UNIT AND SHALL PROVIDE DRAINS AT ALL LOW POINTS.
2. ALL REFRIGERATION PIPING SHALL BE INSTALLED IN STRICT ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS AND RECOMMENDATIONS.
3. ALL REFRIGERANT PIPING SHALL BE PITCHED A MINIMUM OF 1/4" IN 10'-0" IN THE DIRECTION OF THE REFRIGERANT FLOW.
4. ALL UNDERGROUND OR CONCEALED REFRIGERATION LINES SHALL BE INSULATED WITH 1" FOAMGLAS INSULATION BY PITTSBURG-CORNING WITH PITTWRAP PROTECTIVE COVERING. INSTALL IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS AND RECOMMENDATIONS.
5. ALL PIPE PENETRATIONS THROUGH CHASES, WALLS OR FLOORS WHICH ARE FIRE-RATED SHALL BE PROPERLY SEALED TO MAINTAIN FIRE PROTECTION RATING.
6. ALL DUCTS THAT PENETRATE CHASES, WALLS OR FLOORS WHICH ARE FIRE-RATED SHALL BE INSTALLED WITH FIRE DAMPERS IN ACCORDANCE WITH NFPA 90A. THIS APPLIES EVEN IF THEY ARE NOT SPECIFICALLY SHOWN ON THE DRAWINGS.
7. PROVIDE AND INSTALL RADIATION DAMPERS ON ALL DIFFUSERS, REGISTERS AND GRILLES THAT PENETRATE CEILINGS WHICH ARE FIRE-RATED OR PART OF A FIRE-RATED ASSEMBLY.
8. ALL MATERIALS USED IN PLENUM CEILING AREAS SHALL BE PLENUM RATED AND MEET FLAME/SMOKE INDEXES OF 25/50.

## GENERAL NOTES:

(THESE NOTES APPLY TO ALL MECHANICAL DRAWINGS)

1. ANY PHYSICAL INSTALLATION MODIFICATIONS DUE TO FIELD CONDITIONS SHALL BE RESOLVED BY THE MECHANICAL CONTRACTOR IN ACCORDANCE WITH THE RECOMMENDATIONS OF THE MECHANICAL ENGINEER.
2. THE ENTIRE INSTALLATION SHALL COMPLY WITH ALL CODES, LOCAL, STATE, AND NATIONAL
3. THIS CONTRACTOR SHALL PROVIDE ALL MISCELLANEOUS STEEL AND SUPPORTS TO SUSPEND DUCTWORK AND EQUIPMENT.
4. ALL EQUIPMENT SHALL BE INSTALLED WITH VIBRATION ISOLATORS.
5. THIS CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIALS, AND EQUIPMENT TO ENSURE A COMPLETE SYSTEM.
6. THIS CONTRACTOR SHALL COORDINATE HIS WORK WITH ALL OTHER TRADES.
7. THE MECHANICAL CONTRACTOR SHALL SEAL ALL HIS RESPECTIVE WALL AND ROOF PENETRATIONS.
8. ALL ROOF OPENINGS SHALL BE BY MECHANICAL CONTRACTOR. FLASHING SHALL BE PROVIDED BY THE GENERAL CONTRACTOR. COUNTER-FLASHING WILL BE BY THE MECHANICAL CONTRACTOR.
9. THE MECHANICAL CONTRACTOR SHALL PAY FOR ALL FEES AND PERMITS AS NECESSARY TO COMPLETE THE INSTALLATION.
10. CONTRACTOR SHALL INSTALL ALL EQUIPMENT WITH ADEQUATE SERVICE CLEARANCES AS RECOMMENDED BY THE EQUIPMENT MANUFACTURER.
11. MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR CUTTING AND PATCHING WALLS AND FLOORS FOR NEW EQUIPMENT AND MATERIALS. PATCH TO MATCH EXISTING.
12. ALL ROOFTOP EQUIPMENT REQUIRING REGULAR MAINTENANCE SHALL BE INSTALLED MINIMUM 10'-0" FROM ANY ROOF EDGE HIGHER THAN 30" ABOVE ADJACENT ROOF LEVEL OR GRADE IN ACCORDANCE WITH INTERNATIONAL MECHANICAL CODE.

## DUCTWORK NOTES:

(THESE NOTES APPLY TO ALL MECHANICAL DRAWINGS)

1. ALL DUCTWORK SIZES NOTED ARE FREE AREA SIZES.
2. TURNING VANES SHALL BE PROVIDED IN ALL DUCT ELBOWS.
3. PROVIDE ALL DAMPERS, SPLITTERS, AND EXTRACTORS AS REQUIRED FOR PROPER AIR DISTRIBUTION IN GENERAL ACCORDANCE WITH THE STANDARDS OF THE NATIONAL ENVIRONMENTAL BALANCING BUREAU.
4. FURNISH AND INSTALL AS NECESSITATED BY EXISTING CONDITIONS ALL SUPPORT MATERIALS TO INSURE A RIGID INSTALLATION.
5. ALL SUPPLY AND RETURN DUCTWORK EXCEPT DOUBLE WALL SPIRAL ROUND DUCTWORK SHALL BE INTERNALLY LINED IN ACCORDANCE WITH THE SPECIFICATIONS.
6. THE MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING INSTALLATION OF NEW DIFFUSERS AND REGISTERS WITH SUSPENDED CEILING GRID AND LIGHTING FIXTURES TO BE INSTALLED BY THE GENERAL AND ELECTRICAL CONTRACTORS RESPECTIVELY. CEILING DIFFUSERS AND REGISTERS SHALL BE CENTERED IN GRID SYSTEM.
7. LENGTH OF FLEXIBLE DUCT BRANCHES SHALL NOT EXCEED 8' - 0" MAXIMUM. ANY ADDITIONAL LENGTH AS NEEDED FOR INDIVIDUAL CONNECTIONS SHALL BE ACCOMPLISHED WITH ROUND RIGID DUCTWORK.
8. FLEXIBLE DUCT WILL NOT BE ACCEPTABLE FOR EXHAUST FAN INSTALLATIONS.
9. THE MECHANICAL CONTRACTOR SHALL FURNISH AND INSTALL FLEXIBLE FABRIC CONNECTIONS BETWEEN DUCTWORK AND FANS IN ORDER TO ISOLATE EQUIPMENT AND PREVENT VIBRATION.

## DUCTWORK SIZE NOTE:

(THIS NOTE SHALL APPLY TO ALL MECHANICAL DRAWINGS)

DUCTWORK SIZES AND LOCATIONS ARE APPROXIMATE. MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR DUCTWORK SIZE REVISIONS AS REQUIRED TO ACCOMMODATE AVAILABLE SPACE. SIZING SHALL BE BASED ON A MAXIMUM .08" PER 100FT. OF STATIC PRESSURE AND A MAXIMUM 1100 FPM AIR VELOCITY. DUCTWORK SYSTEMS SHALL BE SIZED BASED ON AVAILABLE HVAC FAN CAPACITY.

## ASBESTOS NOTE:

(THIS NOTE SHALL APPLY TO ALL MECHANICAL DRAWINGS)

IF THE CONTRACTOR FINDS ANY ASBESTOS DURING THIS CONSTRUCTION PROJECT, HE SHALL STOP WORK IMMEDIATELY AND REPORT IT TO THE ENGINEER AND THE OWNER. THE OWNER WILL THEN TAKE CARE OF THE REMOVAL OF THIS ASBESTOS.

## MECHANICAL ABBREVIATIONS

(THESE ABBREVIATIONS APPLY TO ALL DRAWINGS)

| | |
|---|---|
| **DEVICES** | |
| D | DIFFUSER |
| R | REGISTER |
| L | LOUVER |
| FD | FIRE DAMPER |
| FSD | FIRE/SMOKE DAMPER |
| SD | SMOKE DAMPER |
| BD | BALANCING DAMPER |
| MOD | MOTOR OPERATED DAMPER |
| ATC | AUTOMATIC TEMPERATURE CONTROL |
| **HYDRONIC** | |
| C | CONDENSATE DRAIN |
| GPM | GALLONS PER MINUTE |
| GPH | GALLONS PER HOUR |
| HWS | HEATING HOT WATER SUPPLY |
| HWR | HEATING HOT WATER RETURN |
| CWS | CHILLED WATER SUPPLY |
| CWR | CHILLED WATER RETURN |
| CS | CONDENSER WATER SUPPLY |
| CR | CONDENSER WATER RETURN |
| HPS | HIGH PRESSURE STEAM |
| MPS | MEDIUM PRESSURE STEAM |
| LPS | LOW PRESSURE STEAM |
| PC | CONDENSATE PUMPED |
| HSD | HUMIDIFIER STEAM DISCHARGE |
| FOS | FUEL OIL SUPPLY |
| FOR | FUEL OIL RETURN |
| R | REFRIGERANT PIPING |
| **DESIGN CRITERIA** | |
| PD | PRESSURE DROP |
| RH | RELATIVE HUMIDITY |
| RPM | REVOLUTIONS PER MINUTE |
| SP | STATIC PRESSURE |
| ESP | EXTERNAL STATIC PRESSURE |
| TSP | TOTAL STATIC PRESSURE |
| WB | WET BULB |
| DB | DRY BULB |
| AMB | AMBIENT |
| WPD | WATER PRESSURE DROP |
| APD | AIR PRESSURE DROP |
| EWT | ENTERING WATER TEMPERATURE |
| LWT | LEAVING WATER TEMPERATURE |
| EAT | ENTERAING AIR TEMPERATURE |
| LAT | LEAVING AIR TEMPERATURE |
| PRV | PRESSURE REDUCING VALVE |
| BBD | BOILER BLOWDOWN |
| **EQUIPMENT** | |
| EF | EXHAUST FAN |
| AHU | AIR HANDLING UNIT |
| RTU | ROOFTOP AIR HANDLING UNIT |
| RTAC | ROOFTOP AIR CONDITIONING UNIT |
| HRU | ENERGY RECOVERY UNIT |
| DOAS | DEDICATED OUTDOOR AIR UNIT |
| AC | AIR CONDITIONER |
| UV | UNIT VENTILATOR |
| FCU | FAN COIL UNIT |
| PTAC | PACKAGED TERMINAL AIR CONDITIONER |
| CU | CONDENSING UNIT |
| CT | COOLING TOWER |
| CHL | CHILLER |
| B | BOILER |
| P | PUMP |
| C | CONVECTOR |
| CH | CABINET HEATER |
| ECH | ELECTRIC CABINET HEATER |
| FT | FINNED TUBE RADIATION |
| BH | BASEBOARD HEATER |
| EBH | ELECTRIC BASEBOARD HEATER |
| RP | RADIANT PANEL |
| UH | UNIT HEATER |
| EUH | ELECTRIC UNIT HEATER |
| ET | EXPANSION TANK |
| AS | AIR SEPARATOR |
| FPV | FAN POWERED VARIABLE AIR VOLUME BOX |
| VAV | VARIABLE AIR VOLUME BOX |

| | |
|---|---|
| **ELECTRICAL** | |
| FLA | FULL LOAD AMPS |
| MCA | MAXIMUM CURRENT AMPS |
| MOP | MAXIMUM OVERCURRENT PROTECTION |
| GA | GAUGE |
| **GENERAL** | |
| TYP | TYPICAL |
| AFF | ABOVE FINISHED FLOOR |
| TFB | TO FLOOR BELOW |
| TFA | TO FLOOR ABOVE |
| FFA | FROM FLOOR ABOVE |
| FFB | FROM FLOOR BELOW |
| AFF | ABOVE FINISHED FLOOR |
| SA | SUPPLY AIR |
| RA | RETURN AIR |
| OA | OUTSIDE AIR |
| EA | EXHAUST AIR |
| T.O. | TRANSFER OPENING |
| T.O. (E) | EXISTING TRANSFER OPENING |
| CLG | CEILING |
| ETR | EXISTING TO REMAIN |
| EC | ELECTRICAL CONTRACTOR |
| FPC | FIRE PROTECTION CONTRACTOR |
| GC | GENERAL CONTRACTOR |
| MC | MECHANICAL CONTRACTOR |
| PC | PLUMBING CONTRACTOR |
| B.O.D. | BOTTOM OF DUCT |
| C.O.D. | CENTER OF DUCT |


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RENOVATIONS
J.P. MCCASKEY STADIUM
PROJECTS
SCHOOL DISTRICT OF LANCASTER
445 N RESERVOIR ST, LANCASTER, PA 17602

ISSUE DATES
DATE: 01/08/2025
DESCRIPTION: BID DOCUMENTS

PROJ # : 24-SDL-03
DRAWN BY : Author

SHEET TITLE:

HVAC SYMBOLS

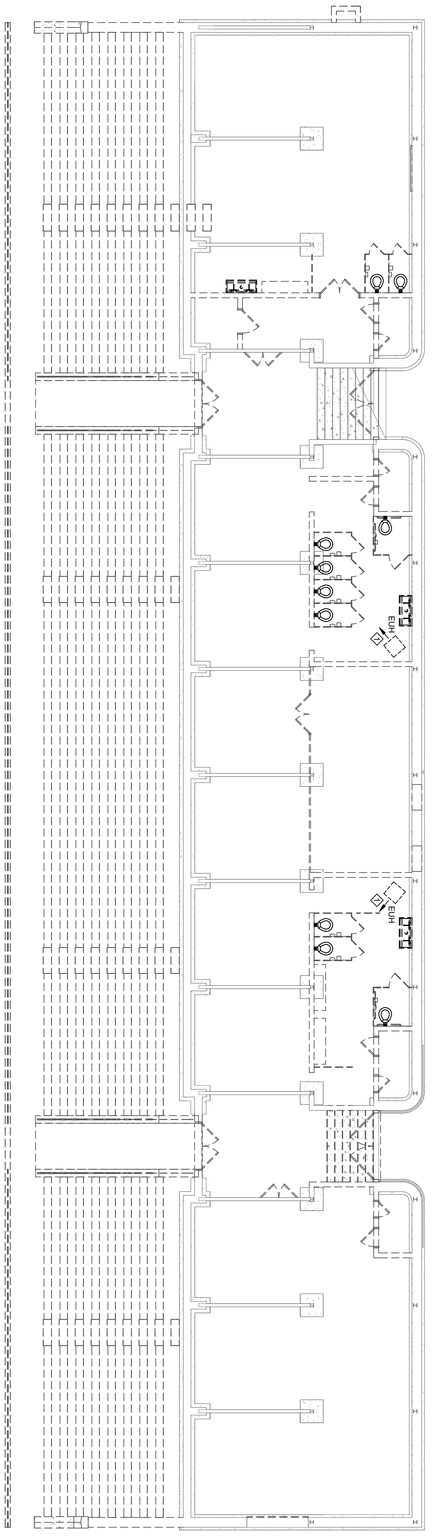
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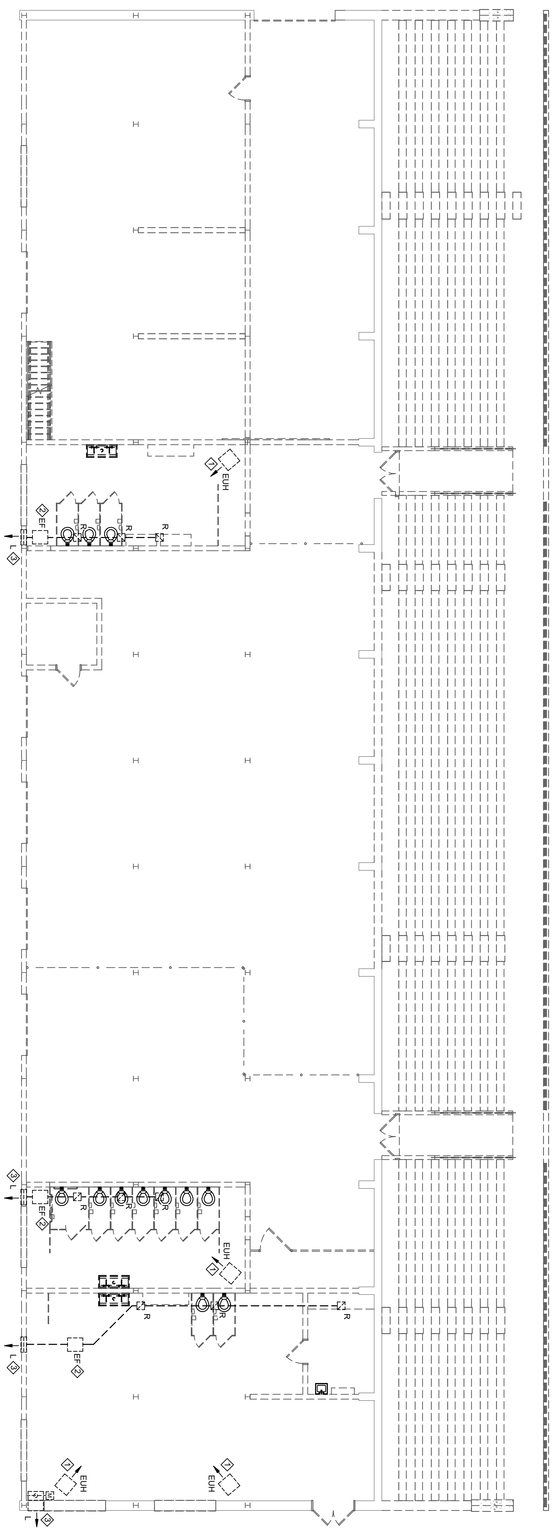
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1 VISITOR FIRST FLOOR PLAN - HVAC DEMOLITION
1/8" = 1'-0"




2 HOME FIRST FLOOR PLAN - HVAC DEMOLITION
1/8" = 1'-0"

DRAWING NOTES:

1. REMOVE ELECTRIC UNIT AND ALL APPURTENANCES AND CONTROLS.
2. REMOVE EXHAUST FAN, ASSOCIATED DUCTWORK, GRILLES, LOUVERS AND ALL OTHER APPURTENANCES AND CONTROLS.
3. REMOVE EXTERIOR WALL LOUVER, ASSOCIATED DUCTWORK, AND ALL OTHER APPURTENANCES AND CONTROLS.

**BID DOCUMENTS**

SHEET NUMBER: **H1.1**

SHEET TITLE: **FIRST FLOOR PLANS - HVAC DEMOLITION**

PROJ #: 24-SDL-03

DRAWN BY: Author

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RENOVATIONS

# J.P. MCCASKEY STADIUM PROJECTS

SCHOOL DISTRICT OF LANCASTER

445 N RESERVOIR ST, LANCASTER, PA 17602


**CONSULTANT:**

MOORE ENGINEERING COMPANY

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P: 717.285.3141, MooreEngineering.com


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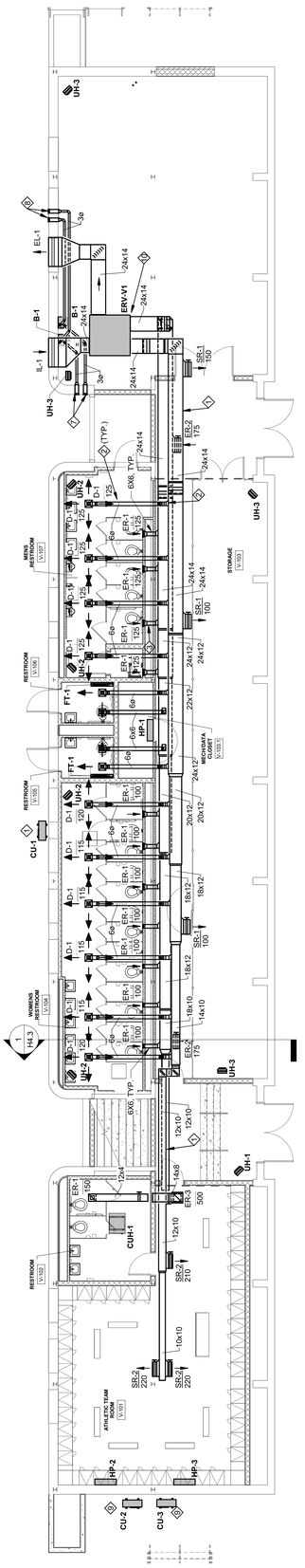


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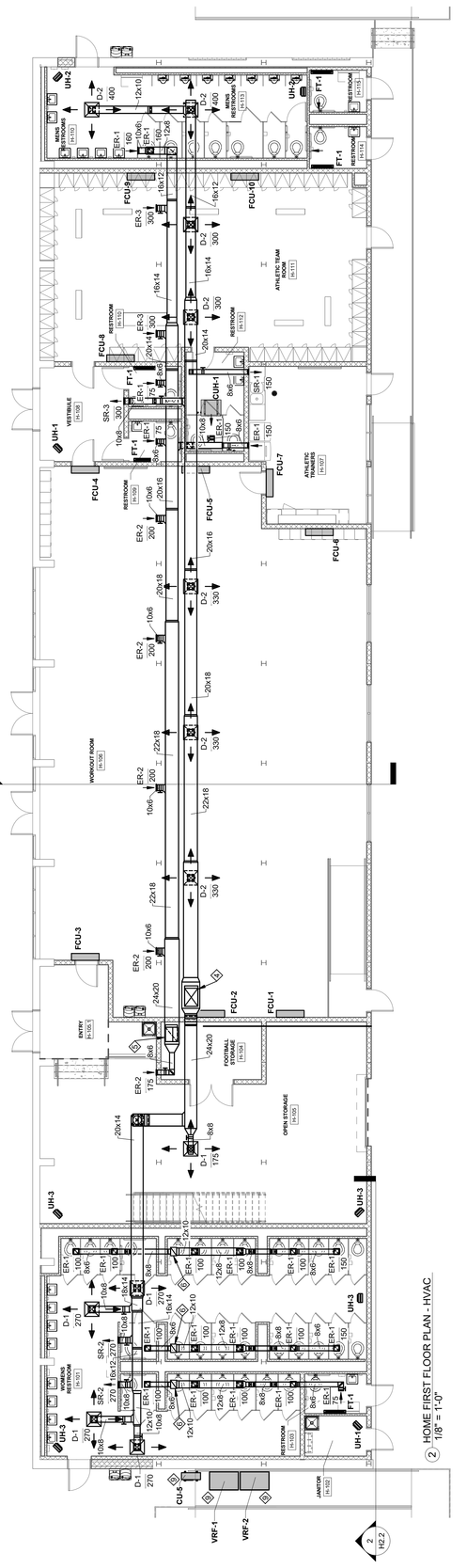
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DRAWING NOTES:

1. STACK O/A DUCT ABOVE E/A DUCT, BOTTOM OF EXHAUST AIR DUCT AT 7'-6"
2. O/A SUPPLY DUCT TAKEOFF ON SIDE OF TRUNK. RUN DUCT WITH CEILING SLOPE BETWEEN SUPPORT STRUCTURE
3. EXHAUST DUCT FROM EXHAUST TRUNK STRAIGHT THROUGH WALL TO EXHAUST REGISTER LOCATED ABOVE FLOOR. REFER TO PLUMBING FIXTURES, SUPPORTS, PLUMBING PIPING AND TOILET PARTITIONS.
4. 30X22 S.A. DOWN FROM ABOVE, REFER TO H2.2 FOR CONTINUATION
5. 24X20 R.A. DOWN FROM ABOVE, REFER TO H2.2 FOR CONTINUATION
6. 14X10 R.A. DOWN FROM ABOVE, REFER TO H2.2 FOR CONTINUATION
7. 3" AIR INTAKE. INSTALL PER BOILER MANUFACTURER'S INSTRUCTIONS
8. 3" EXHAUST. INSTALL PER BOILER MANUFACTURER'S INSTRUCTIONS
9. PROVIDE CONCRETE EQUIPMENT PAD UNDER EQUIPMENT
10. HANG UNIT IN SPACE FROM EXISTING STRUCTURE. PROVIDE ADDITIONAL SUPPORT ELEMENTS AND VIBRATION ISOLATORS.




1 VISITOR FIRST FLOOR PLAN - HVAC
1/8" = 1'-0"




2 HOME FIRST FLOOR PLAN - HVAC
1/8" = 1'-0"

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PROJECTS
SCHOOL DISTRICT OF LANCASTER
445 N RESERVOIR ST, LANCASTER, PA 17602

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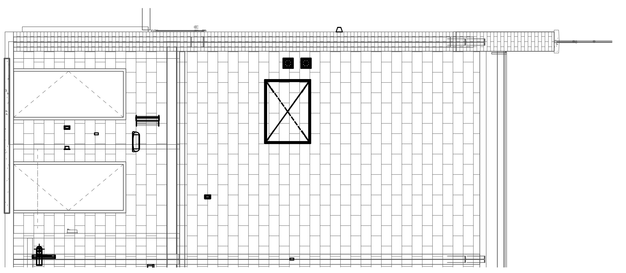
PROJ #: 24-004-03 DRAWN BY: Author

SHEET TITLE:
**FIRST FLOOR PLANS - HVAC**

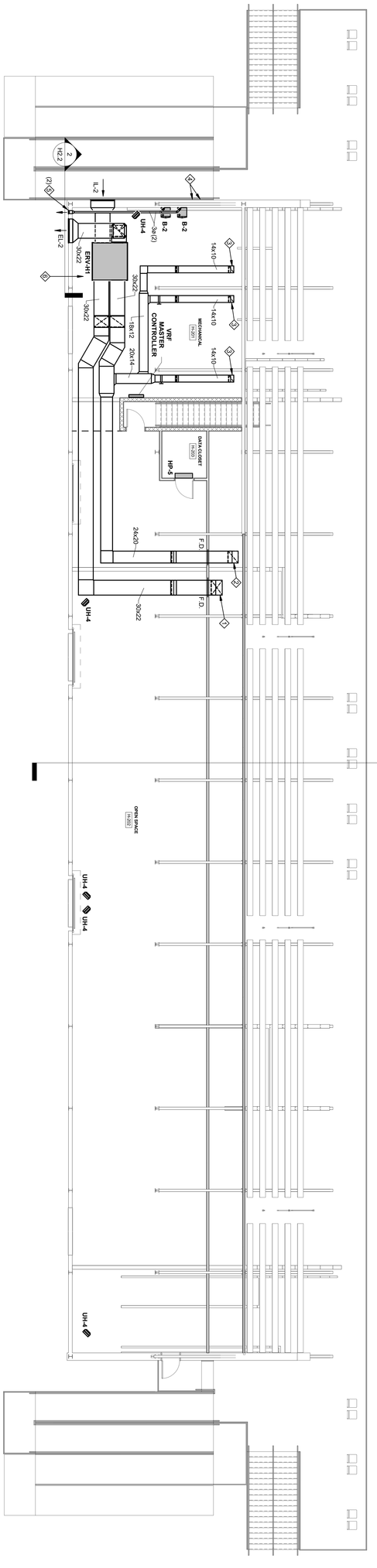
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**H2.1**

**BID DOCUMENTS**

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2 LOUVER SECTION
1/4" = 1'-0"




1 HOME SECOND FLOOR PLAN - HVAC
1/8" = 1'-0"

DRAWING NOTES:

1. 30X22 S.A. DOWN TO DUCT CHASE ON FLOOR BELOW. REFER TO H2.1 FOR CONTINUATION
2. 20X20 R.A. DOWN TO DUCT CHASE ON FLOOR BELOW. REFER TO H2.1 FOR CONTINUATION
3. 14X10 R.A. DOWN TO FLOOR BELOW. REFER TO H2.1 FOR CONTINUATION
4. 3" AIR INTAKE. INSTALL PER BOILER MANUFACTURER'S INSTRUCTIONS
5. 3" EXHAUST. INSTALL PER BOILER MANUFACTURER'S INSTRUCTIONS
6. INSTALL ERV ON FLOOR WITH HOUSEKEEPING PAD AND VIBRATION ISOLATORS

**BID DOCUMENTS**

SHEET NUMBER: **H2.2**

SHEET TITLE: **SECOND FLOOR PLAN - HVAC**

PROJ #: 24-00L-03 DRAWN BY: Author

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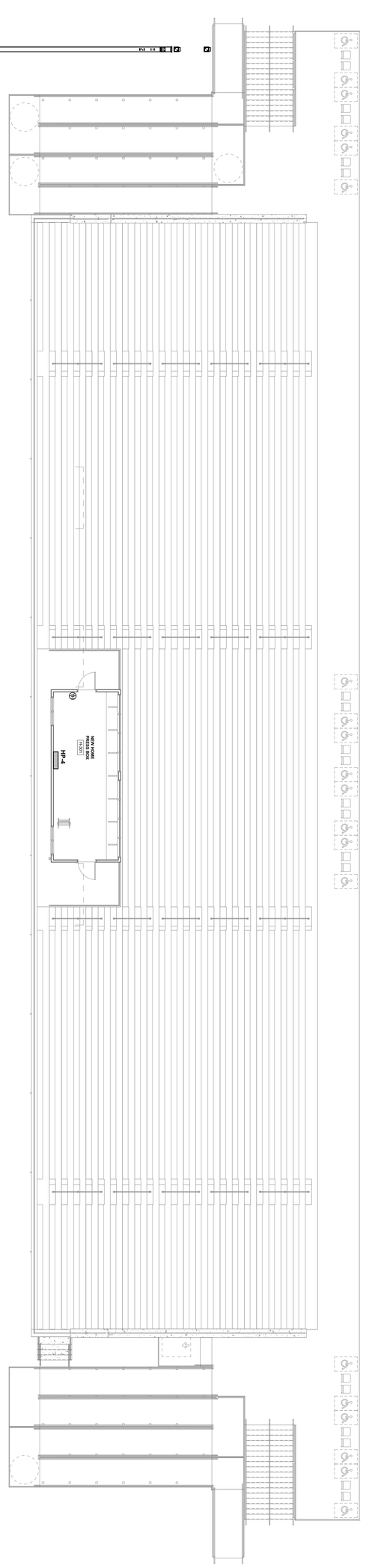
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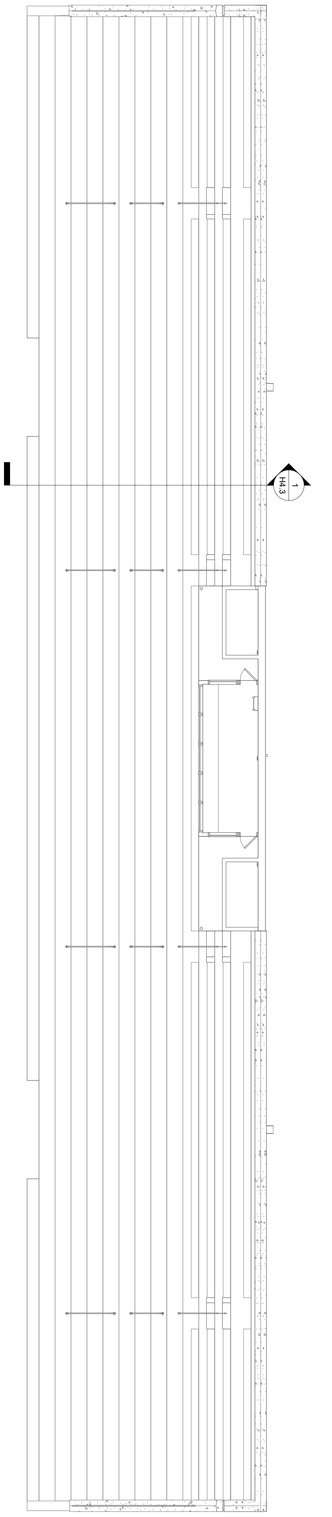
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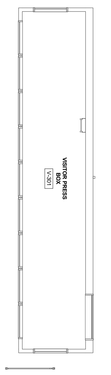
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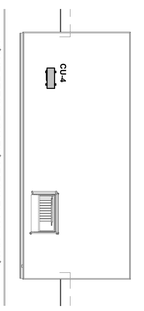

1 HOME BLEACHER PLAN - HVAC
1/8" = 1'-0"



2 VISITOR BLEACHER PLAN - HVAC
1/8" = 1'-0"




3 VISITOR PRESS BOX SECOND FLOOR PLAN - HVAC
1/8" = 1'-0"




4 HOME PRESS BOX FILM DECK PLAN - HVAC
1/8" = 1'-0"

BID DOCUMENTS

SHEET NUMBER: H2.3

SHEET TITLE: BLEACHER PLANS - HVAC

PROJ #: 24-SDL-03 DRAWN BY: Author

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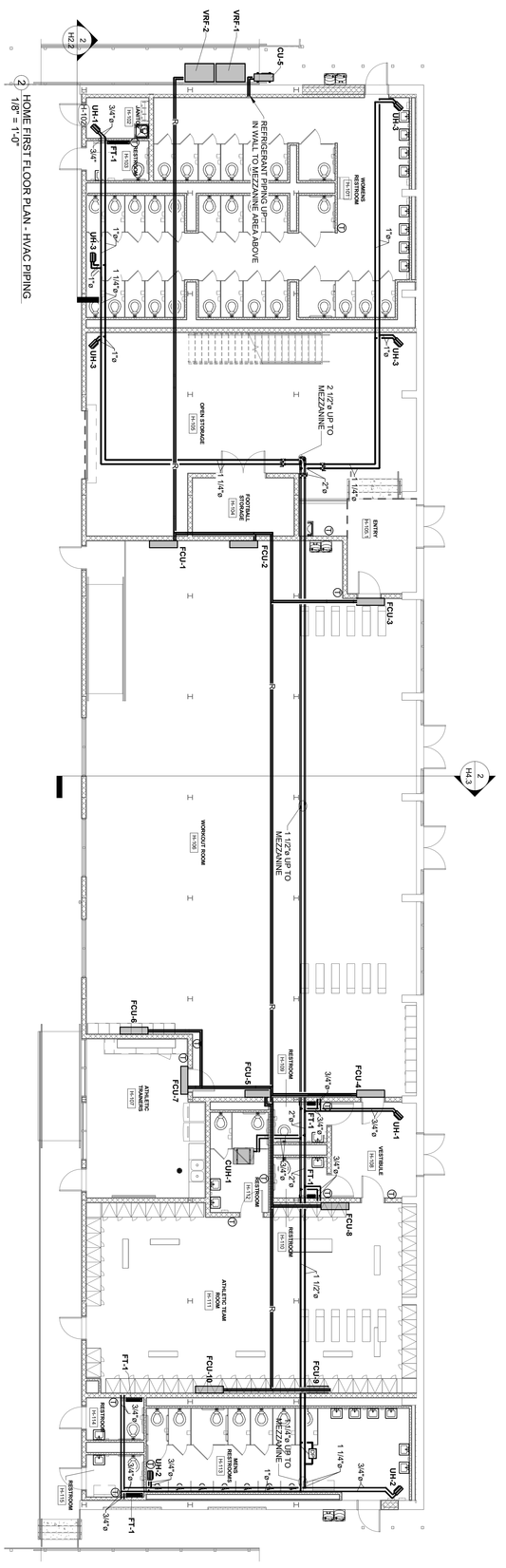
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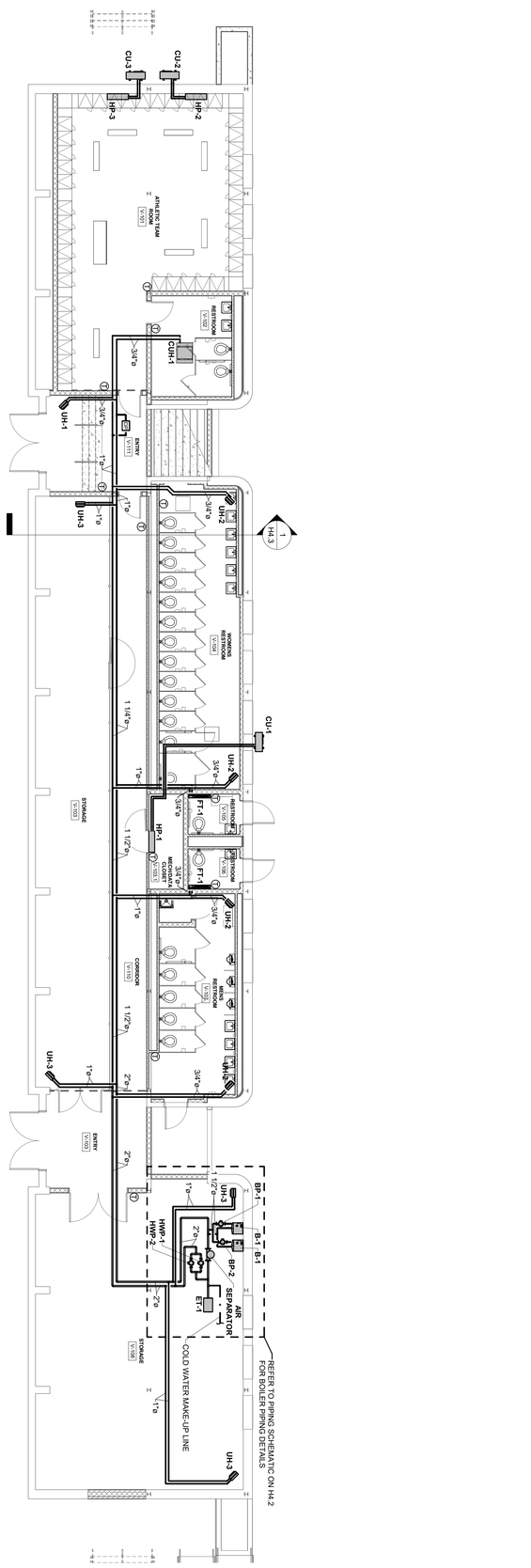
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2 HOME FIRST FLOOR PLAN - HVAC PIPING
1/8" = 1'-0"




1 VISITOR FIRST FLOOR PLAN - HVAC PIPING
1/8" = 1'-0"

**BID DOCUMENTS**

**SHEET NUMBER:** H3.1

**FIRST FLOOR PLANS - HW PIPING**

**SHEET TITLE:**

PROJ #: 24-030-03
DRAWN BY: Author

**ISSUE DATES**

| DATE: | DESCRIPTION: |
|---|---|
| 01/08/2025 | BID DOCUMENTS |

RENOVATIONS
# J.P. MCCASKEY STADIUM PROJECTS
SCHOOL DISTRICT OF LANCASTER
445 N RESERVOIR ST, LANCASTER, PA 17602

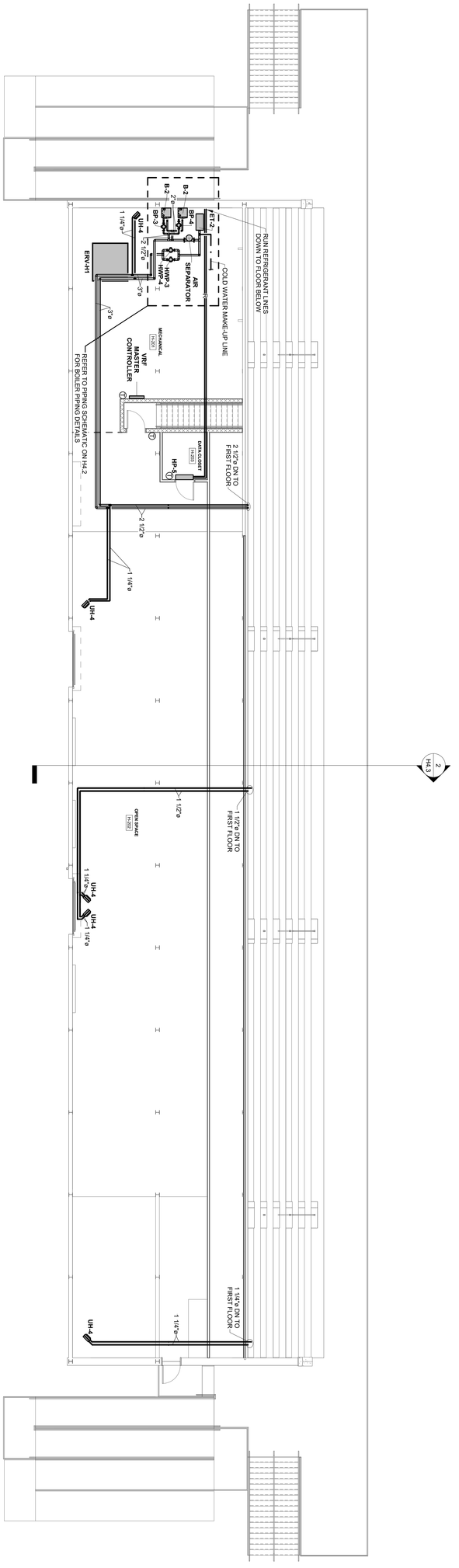
**CONSULTANT:**
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1 HOME SECOND FLOOR PLAN - HVAC PIPING
1/8" = 1'-0"

**BID DOCUMENTS**

SHEET NUMBER: **H3.2**

SECOND FLOOR PLAN - HW PIPING

SHEET TITLE:

PROJ #: 24-SDL-03
DRAWN BY: Author

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RENOVATIONS
# J.P. MCCASKEY STADIUM PROJECTS
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## ENERGY RECOVERY UNITS

| SYMBOL | SUPPLY AIR | | | EXHAUST AIR | | | SUMMER | | | | | | WINTER | | | | | | WHEEL EFFECTIVENESS | | ELECTRICAL | | | BASIS OF DESIGN | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | CFM | E.S.P. | HP | CFM | E.S.P. | HP | OA DB (F) | OA WB (F) | RA DB (F) | RA WB (F) | SA DB (F) | SA WB (F) | OA DB (F) | OA WB (F) | RA DB (F) | RA WB (F) | SA DB (F) | SA WB (F) | SUMMER | WINTER | VOLTS/PH | MCA | MOCP | MANUFACTURER AND MODEL NO. | |
| ERV-V1 | 2350 | 0.5 | 1.5 | 2350 | 0.5 | 1.5 | 94.0 | 78.0 | 75.0 | 62.5 | 78.4 | 66.2 | 0.0 | -1.5 | 72.0 | 55.8 | 57.6 | 47 | 78.1 | 80.7 | 460/60/3 | 7.8 | 15 | GREENHECK ERV-45-15L | - |
| ERV-H1 | 4600 | 0.6 | 3 | 4600 | 0.6 | 3 | 94.0 | 78.0 | 75.0 | 62.5 | 80 | 67.9 | 0.0 | -1.5 | 72.0 | 55.8 | 51 | 42.4 | 67.9 | 71.5 | 460/60/3 | 11.8 | 15 | GREENHECK ERVe-55-15L | - |
| | | | | | | | | | | | | | | | | | | | | | | | | | |

## MINI-SPLIT SYSTEM HEAT PUMP

| SYMBOL | CFM | TOTAL COOLING MBH | SENSIBLE COOLING MBH | SEER2 | O/A MIN CFM | HEATING CAPACITY @17 MBH | INDOOR UNIT | | OUTDOOR UNIT | | | | RECOMMENDED BREAKER SIZE | BASIS OF DESIGN | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | FLA | VOLTAGE | FLA | VOLTAGE | MCA | MOCP | | MANUFACTURER AND MODEL NO. | |
| HP-1/CU-1 | 385 | 12 | 10.5 | 21.3 | 0 | 10.6 | .19 | - | - | 208/230/1 | 11 | 30 | 15 | MITSUBISHI - TPKA0A0121LA10A & TRUZA0121KA70NA | 2 |
| HP-2/CU-2 | 775 | 30 | 21.6 | 18.5 | 0 | 32 | .265 | - | - | 208/230/1 | 24 | 40 | 35 | MITSUBISHI - TPKA0A0301KA80A & TRUZH0301KA00NA | 1 |
| HP-3/CU-3 | 775 | 30 | 21.6 | 18.5 | 0 | 32 | .265 | - | - | 208/230/1 | 24 | 40 | 35 | MITSUBISHI - TPKA0A0301KA80A & TRUZH0301KA00NA | 1 |
| HP-4/CU-4 | 775 | 24 | 18.48 | 19.5 | 0 | 26 | .265 | - | - | 208/230/1 | 17 | 30 | 25 | MITSUBISHI - TPKA0A0241KA80A & TRUZH0241HA10NA | 1 |
| HP-5/CU-5 | 385 | 12 | 10.5 | 21.3 | 0 | 10.6 | .19 | - | - | 208/230/1 | 11 | 30 | 15 | MITSUBISHI - TPKA0A0121LA10A & TRUZA0121KA70NA | 2 |
| | | | | | | | | | | | | | | | |

NOTE:
1. SYSTEM TO BE HYPER-HEATING
2. SYSTEM TO HAVE LOW AMBIENT COOLING

## REGISTER SCHEDULE

| SYMBOL | CFM RANGE | NECK SIZE | TYPE |
|---|---|---|---|
| ER-1 CFM | 0 - 160 | 10X6 | SIDEWALL/CEILING MOUNT |
| ER-2 CFM | 126 - 275 | 12X8 | SIDEWALL/CEILING MOUNT |
| ER-3 CFM | 305 - 675 | 18X12 | SIDEWALL/CEILING MOUNT |
| SR-1 CFM | 305 - 675 | 10X6 | SIDEWALL/CEILING MOUNT |
| SR-2 CFM | 126 - 275 | 12X8 | SIDEWALL/CEILING MOUNT |
| SR-3 CFM | 305 - 675 | 18X12 | SIDEWALL/CEILING MOUNT |
| | | | |

## LOUVERS

| SYMBOL | CFM | SIZE | REMARKS |
|---|---|---|---|
| IL-1 | 2350 | 48X24 | - |
| EL-1 | 2350 | 48X16 | - |
| IL-2 | 4600 | 48X48 | - |
| EL-2 | 4600 | 48X36 | - |
| | | | |

## SUPPLY AIR DIFFUSER SCHEDULE

| SYMBOL | CFM RANGE | NECK SIZE | FACE SIZE | TYPE |
|---|---|---|---|---|
| D-1 CFM | 126 - 275 | 9X9 | 24X24 | CEILING MOUNT |
| D-2 CFM | 276 - 500 | 12X12 | 24X24 | CEILING MOUNT |
| | | | | |

## VRF CONDENSING UNIT

| SYSTEM TAG | SYSTEM 1 |
|---|---|
| TAG REFERENCE | VRF-1,2 |
| MODEL NUMBER | TUHYE2404BN41AN |
| MODULES | EP120, EP120 |
| NOMINAL COOLING CAPACITY (BTU/h) | 240,000 |
| NOMINAL HEATING CAPACITY (BTU/h) | 270,000 |
| COOLING EFFICIENCY IEER/EER | 21.75 / 10.1 |
| HEATING COP @ 47°F | 3.635 |
| NOM. SYSTEM CONNECTED CAPACITY (%OF NOM) | 122.5% |
| DESIGN COOLING OUTDOOR TEMP DB (°F) | 95.0 |
| DESIGN HEATING OUTDOOR TEMP WB (°F) | 0 |
| CORRECTED COOLING TOTAL CAPACITY (BTU/h) | 222,478 |
| CORRECTED HEATING CAPACITY (BTU/h) | 205,868.8 |
| COMPRESSOR TYPE | SCROLL |
| COMPRESSOR QUANTITY | 2 |
| VOLTAGE/PHASE | 460V/3Ø |
| MCA 208V/230V OR 460V | 25, 25 |
| MOCP | 40, 40 |
| APPLICATION SYSTEM NOTES - SEE NOTES BELOW | 1, 2, 3, 4 |
| | |

NOTE:
1. NOMINAL COOLING CAPACITIES ARE BASED ON INDOOR COIL EAT OF 80/67°F (DB/WB), OUTDOOR OF 95°F (DB)
2. NOMINAL HEATING CAPACITIES ARE BASED ON INDOOR COIL EAT OF 70°F (DB), OUTDOOR OF 43°F (WB)
3. EFFICIENCY VALUES FOR EER, IEER, COP ARE BASED ON AHRI 1230 TEST METHOD FOR MIXTURE OF DUCTED AND NON-DUCTED INDOOR UNITS.
4. FOR SYSTEMS WITH MULTIPLE MODULES, REFRIGERANT PIPE DIMENSIONS INDICATE TOTAL SYSTEM COMBINED PIPING DOWNSTREAM OF MODULE TWINNING.

## VRF FAN COIL UNIT SCHEDULE

| SYMBOL | SPACE SERVING | CFM | TOTAL MBH NOMINAL | SENS. MBH NOMINAL | EAT | | HEATING CAP. NOMINAL | ELECTRICAL | | | MOUNTING | BASIS OF DESIGN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | DB | WB | | VOLTAGE | MCA | MOCP | | |
| FCU-1 | WORKOUT ROOM H106 | 918 | 30 | 23.5 | 75 | 62.5 | 34 | 208/230/1Ø | 0.63 | 15 | WALL MOUNTED | MITSUBISHI - TPKFYP030KM142B |
| FCU-2 | WORKOUT ROOM H106 | 918 | 30 | 23.5 | 75 | 62.5 | 34 | 208/230/1Ø | 0.63 | 15 | WALL MOUNTED | MITSUBISHI - TPKFYP030KM142B |
| FCU-3 | WORKOUT ROOM H106 | 918 | 30 | 23.5 | 75 | 62.5 | 34 | 208/230/1Ø | 0.63 | 15 | WALL MOUNTED | MITSUBISHI - TPKFYP030KM142B |
| FCU-4 | WORKOUT ROOM H106 | 918 | 30 | 23.5 | 75 | 62.5 | 34 | 208/230/1Ø | 0.63 | 15 | WALL MOUNTED | MITSUBISHI - TPKFYP030KM142B |
| FCU-5 | WORKOUT ROOM H106 | 918 | 30 | 23.5 | 75 | 62.5 | 34 | 208/230/1Ø | 0.63 | 15 | WALL MOUNTED | MITSUBISHI - TPKFYP030KM142B |
| FCU-6 | WORKOUT ROOM H106 | 918 | 30 | 23.5 | 75 | 62.5 | 34 | 208/230/1Ø | 0.63 | 15 | WALL MOUNTED | MITSUBISHI - TPKFYP030KM142B |
| FCU-7 | ATHLETIC TRAINERS H107 | 918 | 24 | 20.78 | 75 | 62.5 | 27 | 208/230/1Ø | 0.63 | 15 | WALL MOUNTED | MITSUBISHI - TPKFYP024KM142B |
| FCU-8 | ATHLETIC TEAM ROOM H111 | 918 | 30 | 23.5 | 75 | 62.5 | 34 | 208/230/1Ø | 0.63 | 15 | WALL MOUNTED | MITSUBISHI - TPKFYP030KM142B |
| FCU-9 | ATHLETIC TEAM ROOM H111 | 918 | 30 | 23.5 | 75 | 62.5 | 34 | 208/230/1Ø | 0.63 | 15 | WALL MOUNTED | MITSUBISHI - TPKFYP030KM142B |
| FCU-10 | ATHLETIC TEAM ROOM H111 | 918 | 30 | 23.5 | 75 | 62.5 | 34 | 208/230/1Ø | 0.63 | 15 | WALL MOUNTED | MITSUBISHI - TPKFYP030KM142B |
| | | | | | | | | | | | | |

## BOILER

| SYMBOLS | INPUT MBH | OUTPUT MBH | FUEL | GPM THRU BOILER | PD THRU BOILER (FT) | TEMP. RISE THRU BOILER (F) | TURNDOWN | VENT SIZE | ELECTRICAL | | BASIS OF DESIGN |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | VOLTS/PH | FLA | MANUFACTURERS AND MODEL NO. |
| B-1 | 155 | 144 | NG | 14.7 | 4.5 | 20 | 10:1 | 3" | 120V/1PH | | LOCHINVAR WHB155N |
| B-2 | 285 | 264 | NG | 27 | 2.4 | 20 | 10:1 | 3" | 120V/1PH | | LOCHINVAR WHB285N |
| | | | | | | | | | | | |

## CIRCULATING PUMPS

| SYMBOL | GPM | FT. HD | H.P. | RPM | EFF. | TYPE | DRIVE TYPE | IMPELLER SIZE (IN) | VOLTS/PH | BASIS OF DESIGN | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | MANUFACTURER AND MODEL | |
| HWP-1 | 32 | 28 | 3/4 | 1087 | 46 | INLINE | - | 8.5 | 208V/3PH | BELL & GOSSETT e-80 | 2 |
| HWP-2 | 32 | 28 | 3/4 | 1087 | 46 | INLINE | - | 8.5 | 208V/3PH | BELL & GOSSETT e-80 | 2 |
| HWP-3 | 64 | 60 | 3 | 1800 | 51 | INLINE | - | 8.75 | 480V/3PH | BELL & GOSSETT e-80 | 2 |
| HWP-4 | 64 | 60 | 3 | 1800 | 51 | INLINE | - | 8.75 | 480V/3PH | BELL & GOSSETT e-80 | 2 |
| BP-1 | 17 | 6 | - | - | - | INLINE | - | - | 115V/1PH | GRUNDFOS UPMS20-78 | 1 |
| BP-2 | 17 | 6 | - | - | - | INLINE | - | - | 115V/1PH | GRUNDFOS UPMS20-78 | 1 |
| BP-3 | 27 | 2.4 | - | - | - | INLINE | - | - | 115V/1PH | GRUNDFOS UPMXL25-124 | 1 |
| BP-4 | 27 | 2.4 | - | - | - | INLINE | - | - | 115V/1PH | GRUNDFOS UPMXL25-124 | 1 |
| | | | | | | | | | | | |

NOTE:
1. PUMP TO BE PROVIDED FROM MANUFACTURER WITH BOILER
2. PUMP TO BE PROVIDED BY M.C.

## FIN TUBE RADIATION

| SYMBOL | MBH | HOT WATER | | | | | LENGTH | | | HEIGHT | DEPTH | BASIS OF DESIGN | | MANUFACTURER |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | EAT | EWT | T.D. | GPM | P.D. | FINS/FT | ROWS | TOTAL | | | ENCLOSURE | ELEMENT | |
| FT-1 | 2.1 | 65 | 180 | - | 1 | - | 60 | 1 | 3' | 9" | 3.125" | LB2 | R02 | STERLING |
| | | | | | | | | | | | | | | |

## HOT WATER UNIT HEATERS

| SYMBOL | OUTPUT MBH | CFM | FAN | | | HOT WATER | | | | | BASIS OF DESIGN |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | H.P. | RPM | VOLTAGE | EAT | EWT | T.D. | GPM | P.D. | MAUFACTURER AND MODEL NO. |
| UH-1 | 11 | 340 | 1/60 | 1550 | 115V/1PH | 60 | 180 | 17.6 | 1.3 | - | MODINE HC18 |
| UH-2 | 14.2 | 370 | 1/25 | 1550 | 115V/1PH | 60 | 180 | 17.6 | 1.7 | - | MODINE HC24 |
| UH-3 | 39.9 | 1120 | 1/12 | 1550 | 115V/1PH | 60 | 180 | 17.6 | 4.7 | - | MODINE HC63 |
| UH-4 | 51.6 | 1340 | 1/8 | 1625 | 115V/1PH | 60 | 180 | 17.6 | 6.3 | - | MODINE HC86 |
| | | | | | | | | | | | |

## CABINET HEATERS

| SYMBOL | MBH | HOT WATER | | | | | CFM | S.P. | FAN | | | BASIS OF DESIGN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | EAT | EWT | T.D. | GPM | P.D. | | | HP | RPM | VOLTAGE | MANUFACTURER AND MODEL NO. |
| CUH-1 | 10.6 | 60 | 180 | 16.3 | 1.3 | 0.2 | 250 | 1 | 0.03 | - | 115V/1PH | MODINE CW002 |
| | | | | | | | | | | | | |

## EXPANSION TANKS

| SYMBOL | TOTAL VOLUME | ACCEPTANCE VOLUME | PRESSURE | TYPE | BASIS OF DESIGN |
|---|---|---|---|---|---|
| ET-1 | 8.6 | 3.2 | 125 | DEEP DRAWN DIAPHRAGM | AMTROL AX-15DD |
| ET-2 | 23 | 11.3 | 125 | DEEP DRAWN DIAPHRAGM | AMTROL AX-40DD |
| | | | | | |


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PROJECTS
SCHOOL DISTRICT OF LANCASTER
445 N RESERVOIR ST, LANCASTER, PA 17602

ISSUE DATES
DATE: 01/08/2025
DESCRIPTION: BID DOCUMENTS

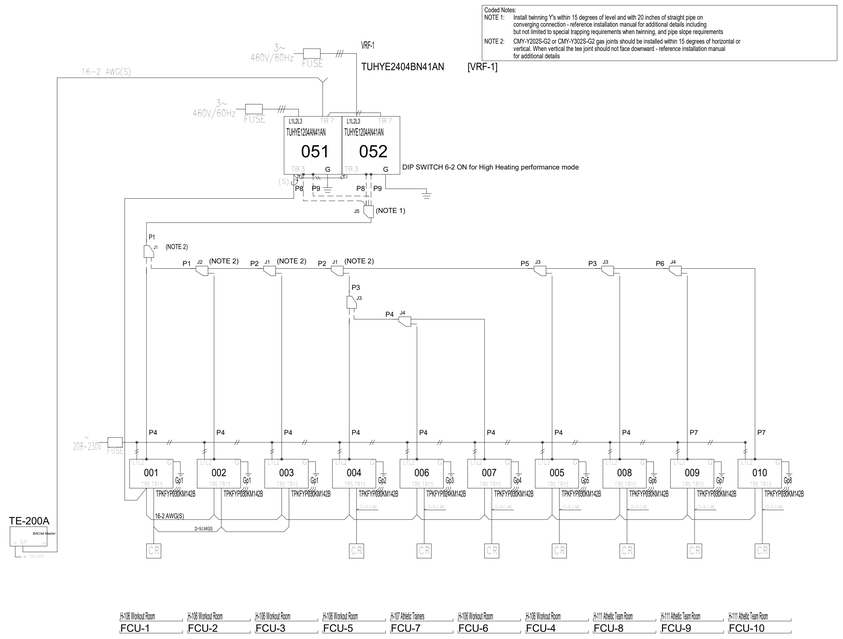
PROJ # : 24-SDL-03 DRAWN BY : Author

SHEET TITLE:
**HVAC SCHEDULES**

SHEET NUMBER:
**H4.1**

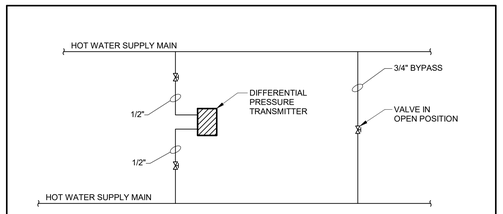
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VRF SYSTEM PIPING SCHEMATIC

NO SCALE

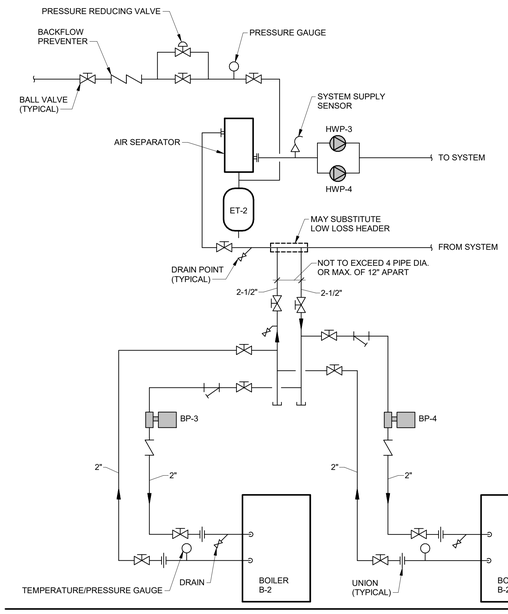



NOTE:

PROVIDE PIPING, TRANSMITTER, VALVES, BYPASS, ECT. AT ALL LOCATIONS NOTED ON PLANS.

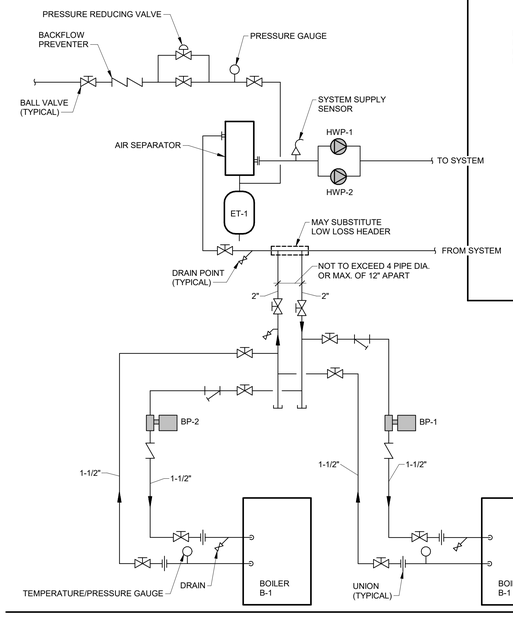
TYPICAL PRESSURE TRANSMITTER PIPING SCHEMATIC

NO SCALE



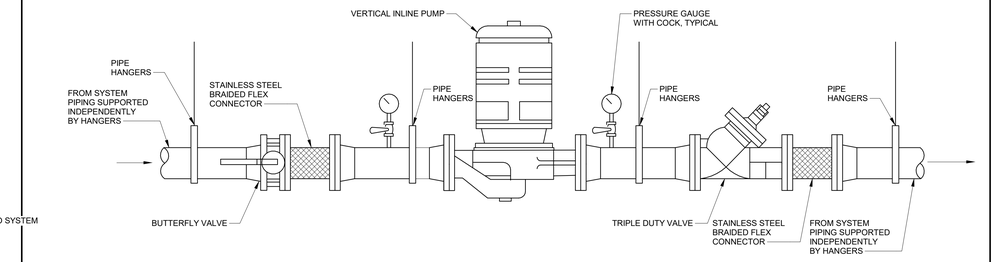

HOT WATER HEATING SYSTEM PIPING SCHEMATIC - HOME SIDE

NO SCALE



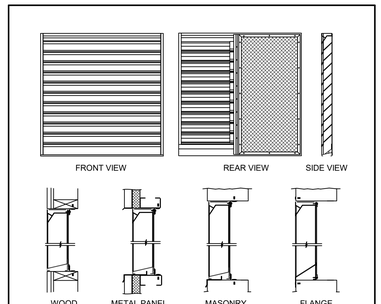

HOT WATER HEATING SYSTEM PIPING SCHEMATIC - VISITOR SIDE

NO SCALE



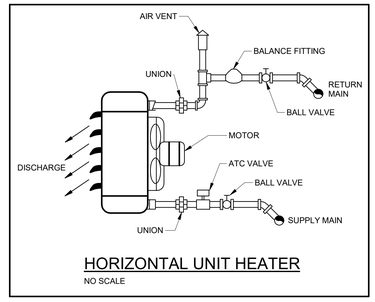

IN-LINE PUMP DETAIL

NO SCALE




LOUVER DETAIL

NO SCALE




HORIZONTAL UNIT HEATER

NO SCALE

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PROJ # : 24-SDL-03 DRAWN BY : Author

SHEET TITLE:

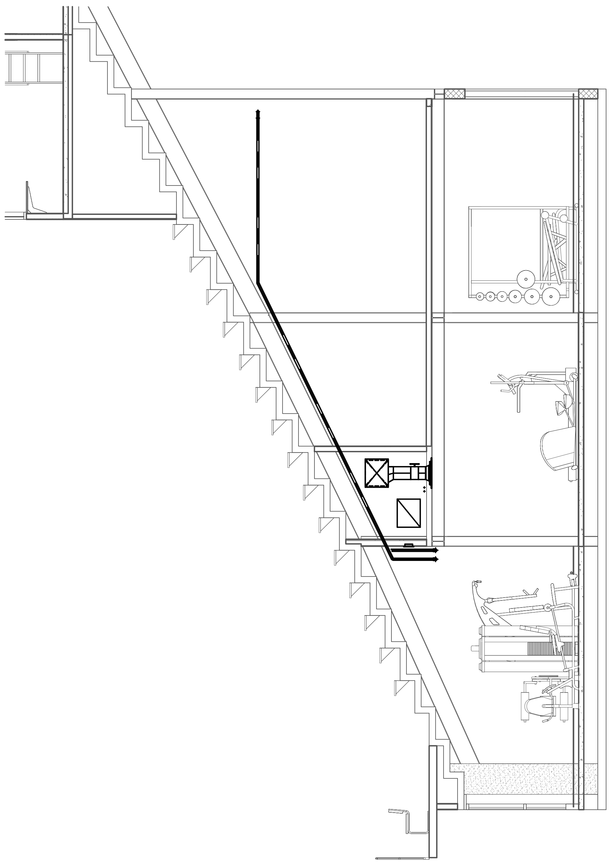
HVAC DETAILS

SHEET NUMBER:

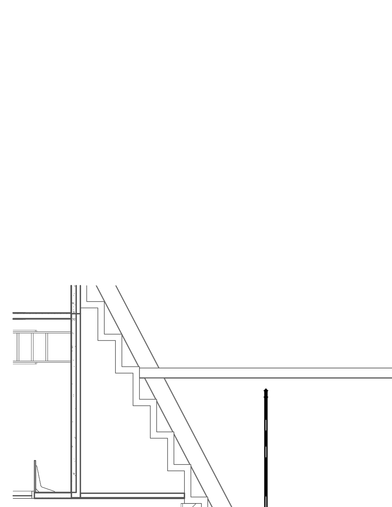
H4.2

BID DOCUMENTS

1/3/2025 5:10:31 PM



1 HVAC VISITORS SIDE SECTION
1/4" = 1'-0"



2 HVAC HOME SIDE SECTION
1/4" = 1'-0"


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| ISSUE DATES | |
|---|---|
| DATE: | DESCRIPTION: |
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PROJ #: 24-005-03 DRAWN BY: Author

SHEET TITLE: HVAC SECTIONS

SHEET NUMBER: H4.3

BID DOCUMENTS

1/3/2025 5:10:36 PM

## NATURAL VENTILATION AIR CALCULATION CHART

| SPACE | AREA (SQ. FT.) | OPERABLE OPENING REQUIRED (SQ. FT.) | OPERABLE OPENING PROVIDED (SQ. FT.) |
|---|---|---|---|
| STORAGE 102, CONCESSION 103, PREP 104 | 1005 | 40.2 | 154.33 |
| TICKETS 107 | 127 | 5.08 | 31.9 |
| | | | |

## FANS

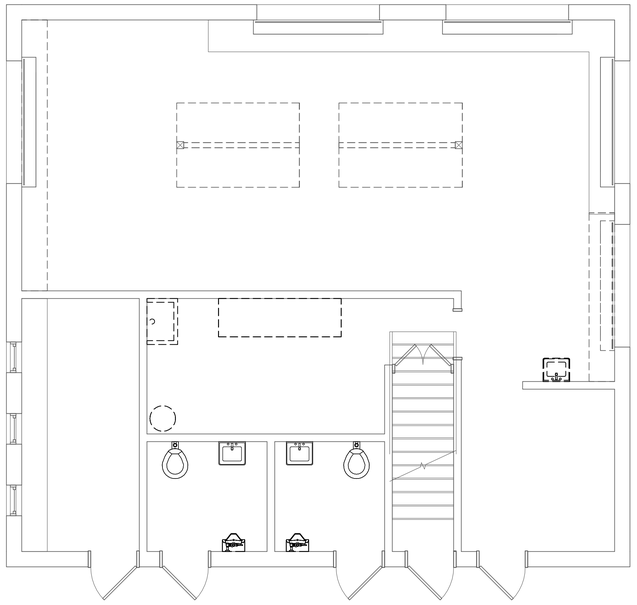
| SYMBOL | CFM | S.P. | SONES | RPM | WATTS | VOLTAGE | BASIS OF DESIGN |
|---|---|---|---|---|---|---|---|
| EF-1 | 100 | 0.5 | 3 | 939 | 22 | 115V/1PH | GREENHECK SP-LP0511 |
| | | | | | | | |

## RADIATION PANEL

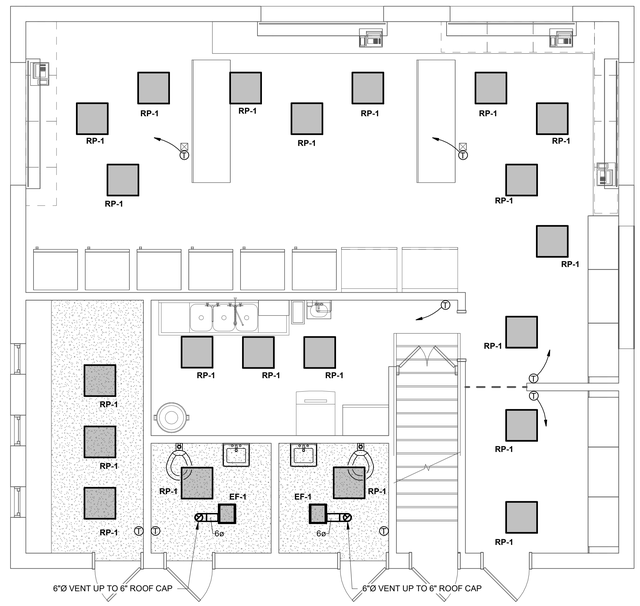
| SYMBOL | BTU | ELECTRIC | | LENGTH | WIDTH | BASIS OF DESIGN |
|---|---|---|---|---|---|---|
| | | VOLTS | WATTS | | | |
| RP-1 | 1,280 | 208 | 375 | 24" | 24" | BERKO ATH24241A |
| | | | | | | |

**DRAWING NOTES:**

1. --
2. --



1 FIRST FLOOR HVAC DEMOLITION
1/4" = 1'-0"




2 FIRST FLOOR HVAC
1/4" = 1'-0"

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RENOVATIONS
J.P. MCCASKEY STADIUM
PROJECTS
SCHOOL DISTRICT OF LANCASTER
445 N RESIVIOR ST., LANCASTER, PA 17602

ISSUE DATES
DATE: 01/08/2025 DESCRIPTION: BID DOCUMENTS

PROJ # : 24-SDL-03 DRAWN BY : Author

SHEET TITLE:

**CONCESSION STAND PLANS - HVAC**

SHEET NUMBER:

**H5.1**

**BID DOCUMENTS**

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## PLUMBING NOTES:

1. INDIVIDUAL FIXTURE PIPING CONNECTION SIZES SHALL BE IN ACCORDANCE WITH PLUMBING FIXTURE SCHEDULE.
2. ANY PHYSICAL INSTALLATION MODIFICATIONS DUE TO FIELD CONDITIONS SHALL BE RESOLVED BY THE PLUMBING CONTRACTOR IN ACCORDANCE WITH THE RECOMMENDATIONS OF THE MECHANICAL ENGINEER AT NO ADDITIONAL EXPENSE TO THE OWNER.
3. ALL WASTE LINES AS SHOWN SHALL BE BELOW FLOOR UNLESS OTHERWISE NOTED. ALL VENT LINES SHALL BE CONCEALED IN WALLS OR ABOVE CEILING. ALL WATER PIPING SHALL BE CONCEALED WHERE PHYSICALLY POSSIBLE.
4. THE ENTIRE INSTALLATION SHALL COMPLY WITH ALL CODES, LOCAL, STATE AND NATIONAL HAVING JURISDICTION.
5. THE CONTRACTOR SHALL RIGIDLY SUPPORT ALL EQUIPMENT.
6. THE CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIALS AND EQUIPMENT TO INSURE A COMPLETE SYSTEM.
7. THE CONTRACTOR SHALL THOROUGHLY COORDINATE HIS WORK WITH THAT OF OTHER TRADES.
8. THE CONTRACTOR SHALL SEAL ALL RESPECTIVE WALL, FLOOR, CEILING OR ROOF PENETRATIONS.
9. THE PLUMBING CONTRACTOR SHALL PAY FOR ALL FEES AND PERMITS AS NECESSARY TO COMPLETE THE INSTALLATION.

## NATURAL GAS PIPING SYSTEMS NOTES:

1. GAS PIPE SHALL BE SCHEDULE 40 SEAMLESS STEEL PIPE.
2. INSTALLATION SHALL BE ACCORDING TO LOCAL CODES AND GAS COMPANY REQUIREMENTS. AFTER INSTALLATION, PIPE SHALL BE TESTED WITH 30 LB. TEST FOR 1 HOUR WITNESSED BY LOCAL GAS COMPANY BEFORE SERVICE IS TURNED ON.
3. PROVIDE A SUITABLE GAS COCK AND UNIONS AT EACH CONNECTION TO EACH PIECE OF GAS FIRED EQUIPMENT.
4. PROVIDE SUITABLE GAS PRESSURE REGULATORS WITH VENTS TO THE ATMOSPHERE REQUIRED IN ORDER TO MAINTAIN REQUIRED PRESSURE AT EACH PIECE OF GAS CONSUMING EQUIPMENT.
5. EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH THE STANDARDS OF THE NATIONAL FIRE PROTECTION ASSOCIATION OR THE NATIONAL FUEL GAS CODE FOR GAS-FIRED UNIT HEATERS AND DUCT FURNACES, AND THESE STANDARDS SHOULD BE FOLLOWED CAREFULLY. AUTHORITIES HAVING JURISDICTION SHOULD BE CONSULTED BEFORE INSTALLATION ARE MADE TO VERIFY LOCAL CODES AND INSTALLATION.
6. PLUMBING CONTRACTOR SHALL COORDINATE GAS SERVICE WITH GAS COMPANY. GAS SERVICE SHALL BE SIZED FOR THE CAPACITY OF ALL GAS EQUIPMENT.
7. PLUMBING CONTRACTOR SHALL COORDINATE GAS SERVICE WITH ALL OTHER TRADES TO AVOID CONFLICT.
8. GAS METER LOCATION SHALL BE COORDINATED WITH GAS COMPANY AND ARCHITECT.
9. ALL EXPOSED PIPING SHALL BE PAINTED WITH (1) PRIME COAT AND (2) COATS OF BEST QUALITY OIL BASE PAINT.

## CUTTING AND PATCHING NOTE:

THE PLUMBING CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CUTTING AND PATCHING REQUIRED FOR THE INSTALLATION OF ALL MECHANICAL WORK ON THIS PROJECT. CUTTING AND PATCHING METHODS SHALL CONFORM TO THE REQUIREMENTS OF THE OWNER AND THE ARCHITECT. PATCHES IN FIRE RATED DEMISING WALLS, CEILING OR FLOORS SHALL MAINTAIN THE FIRE RATING OF THOSE BARRIERS BY THE USE OF APPROVED MATERIALS INCLUDING SPECIAL FIRE RATED SEALING COMPOUNDS OR MATERIALS IDENTICAL TO THE BARRIER MATERIALS.

## DEMOLITION NOTES:

1. RESPECTIVE CONTRACTOR IS RESPONSIBLE FOR PERFORMING ANY DEMOLITION WORK (EVEN IF NOT SHOWN ON THE PLANS) NECESSARY FOR COMPLETION OF PROJECT. THIS INCLUDES REMOVAL OF ANY EQUIPMENT AND MATERIALS THAT WILL NO LONGER BE UTILIZED AFTER COMPLETION OF THIS PROJECT.
2. EQUIPMENT THAT IS REMOVED SHALL BE TURNED OVER TO OWNER. IF OWNER DOES NOT WANT EQUIPMENT, IT SHALL BE DISPOSED OF PROPERLY BY RESPECTIVE CONTRACTOR.

## CEILING TILE NOTE:

THIS CONTRACTOR IS RESPONSIBLE FOR REMOVAL OF EXISTING CEILING TILE AND GRID AS REQUIRED FOR HIS WORK AND FOR RE-INSTALLATION OF TILE AND GRID AND REPLACEMENT OF OR REPAIR OF ALL TILE AND GRID DAMAGED BY HIS WORK. PLEASE NOTE THAT THE GENERAL CONTRACTOR WILL BE REPLACING GRID AND TILE IN SOME AREAS AS PART OF HIS CONTRACT. THIS CONTRACTOR SHALL REMOVE AND RE-INSTALL CEILING IN THOSE AREAS NOT AFFECTED BY THE GENERAL CONTRACT'S WORK. REFER TO ARCHITECTURAL DRAWINGS.

## PLUMBING FIXTURE SCHEDULE

| SYMBOL | DESCRIPTION | WASTE | VENT | HOT | COLD | LOCATION | REMARKS |
|---|---|---|---|---|---|---|---|
| WC-1 | WATER CLOSET | 4" | 2" | - | 1" | - | ADA |
| WC-2 | WATER CLOSET | 4" | 2" | - | 1" | - | - |
| UR-1 | URINAL | 2" | 1-1/2" | - | 3/4" | - | ADA |
| UR-2 | URINAL | 2" | 1-1/2" | - | 3/4" | - | - |
| LV-1 | LAVATORY | 1-1/2" | 1-1/2" | 1/2" | 1/2" | - | ADA |
| LV-2 | LAVATORY | 1-1/2" | 1-1/2" | 1/2" | 1/2" | - | - |
| SK-1 | SINK | 1-1/2" | 1-1/2" | 1/2" | 1/2" | - | ADA |
| MB-1 | MOP BASIN | 2" | 1-1/2" | 1/2" | 1/2" | - | - |
| IMB-1 | ICE MAKER BOX | - | - | - | 1/2" | - | - |
| EWC-1 | ELECTRIC WATER COOLER | 1-1/2" | 1-1/2" | - | 1/2" | - | BI-LEVEL, ADA |
| | | | | - | | - | |
| | | | | | | | |
| WH-1 | WALL HYDRANT | - | - | - | 3/4" | - | FROST FREE |
| HB-1 | HOSE BIBB | - | - | - | 3/4" | - | |
| DWH-1 | DOMESTIC WATER HEATER | - | - | 1-1/2" | 1-1/2" | - | - |
| TMV-1 | MIXING VALVE | - | - | 2" | 2" | - | - |
| CP-1 | DOMESTIC CIRCULATION PUMP | - | - | 1" | - | - | |
| ET-1 | EXPANSION TANK | - | - | - | - | - | - |
| FD-1 | FLOOR DRAIN | SEE PLANS | SEE PLANS | - | - | - | INSTALL WITH TRAP SEAL |
| FD-2 | FLOOR DRAIN | SEE PLANS | SEE PLANS | - | - | - | MEDIUM DUTY, INSTALL WITH TRAP SEAL |
| FS-1 | FLOOR SINK | SEE PLANS | SEE PLANS | - | - | - | INSTALL WITH TRAP SEAL |
| TD-1 | TRENCH DRAIN | 4" | SEE PLANS | - | - | - | - |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

## PLUMBING SYMBOL SCHEDULE

| | |
|---|---|
| | NEW DOMESTIC COLD WATER PIPING |
| CW | EXISTING DOMESTIC COLD WATER PIPING |
| CW | DEMOLITION DOMESTIC COLD WATER PIPING |
| | NEW DOMESTIC HOT WATER PIPING |
| HW | EXISTING DOMESTIC HOT WATER PIPING |
| HW | DEMOLITION DOMESTIC HOT WATER PIPING |
| | NEW DOMESTIC HOT WATER CIRCULATING PIPING |
| HWR | EXISTING DOMESTIC HOT WATER CIRCULATING PIPING |
| HWR | DEMOLITION DOMESTIC HOT WATER CIRCULATING PIPING |
| | NEW DOMESTIC 140 HOT WATER PIPING |
| HW 140 | EXISTING DOMESTIC 140 HOT WATER PIPING |
| HW 140 | DEMOLITION DOMESTIC 140 HOT WATER PIPING |
| | NEW DOMESTIC 140 HOT WATER CIRCULATING PIPING |
| HWR 140 | EXISTING DOMESTIC 140 HOT WATER CIRCULATING PIPING |
| HWR 140 | DEMOLITION DOMESTIC 140 HOT WATER CIRCULATING PIPING |
| G | NEW NATURAL GAS PIPING |
| G | EXISTING NATURAL GAS PIPING |
| G | DEMOLITION NATURAL GAS PIPING |
| C | NEW CONDENSATE PIPING |
| C | EXISTING CONDENSATE PIPING |
| C | DEMOLITION CONDENSATE PIPING |
| | NEW SANITARY DRAIN PIPING |
| | EXISTING SANITARY DRAIN PIPING |
| | DEMOLITION SANITARY DRAIN PIPING |
| AW | NEW ACID WASTE DRAIN PIPING |
| AW | EXISTING ACID WASTE DRAIN PIPING |
| AW | DEMOLITION ACID WASTE DRAIN PIPING |
| C.O. | FLOOR CLEANOUT |
| C.O. | WALL CLEANOUT |
| | NEW SANITARY VENT PIPING |
| | EXISTING SANITARY VENT PIPING |
| AW | NEW ACID WASTE VENT PIPING |
| AW | EXISTING ACID WASTE VENT PIPING |
| GW | NEW GREASE LADEN WASTE DRAIN PIPING |
| GW | EXISTING GREASE LADEN WASTE DRAIN PIPING |
| GW | DEMOLITION GREASE LADEN WASTE DRAIN PIPING |
| VTR | VENT THRU ROOF |
| OST | NEW EMERGENCY OVERFLOW STORM WATER PIPING |
| ST | NEW STORM WATER PIPING |
| ST | EXISTING STORM WATER PIPING |
| ST | DEMOLITION STORM WATER PIPING |
| RWC | RAIN WATER CONDUCTOR (STORM SEWER RISER) |
| RD-1 | NEW ROOF DRAIN |
| RD | EXISTING ROOF DRAIN |
| | SHUT-OFF VALVE |
| | CHECK VALVE AND BALANCING VALVE |
| | CONNECTION NEW TO EXISTING |
| | DISCONNECTION DEMO TO EXISTING |

## PLUMBING ABBREVIATIONS

| | |
|---|---|
| AFF | ABOVE FINISHED FLOOR |
| AG | ABOVE GRADE |
| AW | ACID WASTE PIPING |
| BG | BELOW GRADE |
| CO | CLEANOUT |
| CW | COLD WATER |
| DF | DRINKING FOUNTAIN |
| EWC | ELECTRIC WATER COOLER |
| EX | EXISTING |
| FD | FLOOR DRAIN |
| GW | GREASE LADEN WASTE DRAIN PIPING |
| HW | HOT WATER |
| HWR | HOT WATER RECIRCULATION |
| LV | LAVATORY |
| MB | MOP BASIN |
| OST | EMERGENCY STORM SEWER OVERFLOW |
| RD | ROOF DRAIN |
| SHR | SHOWER |
| SK | SINK |
| SS | SERVICE SINK |
| ST | STORM SEWER |
| UR | URINAL |
| VTR | VENT THRU ROOF |
| WC | WATER CLOSET |


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J.P. MCCASKEY STADIUM
PROJECTS
SCHOOL DISTRICT OF LANCASTER
445 N RESERVOIR ST, LANCASTER, PA. 17602

ISSUE DATES
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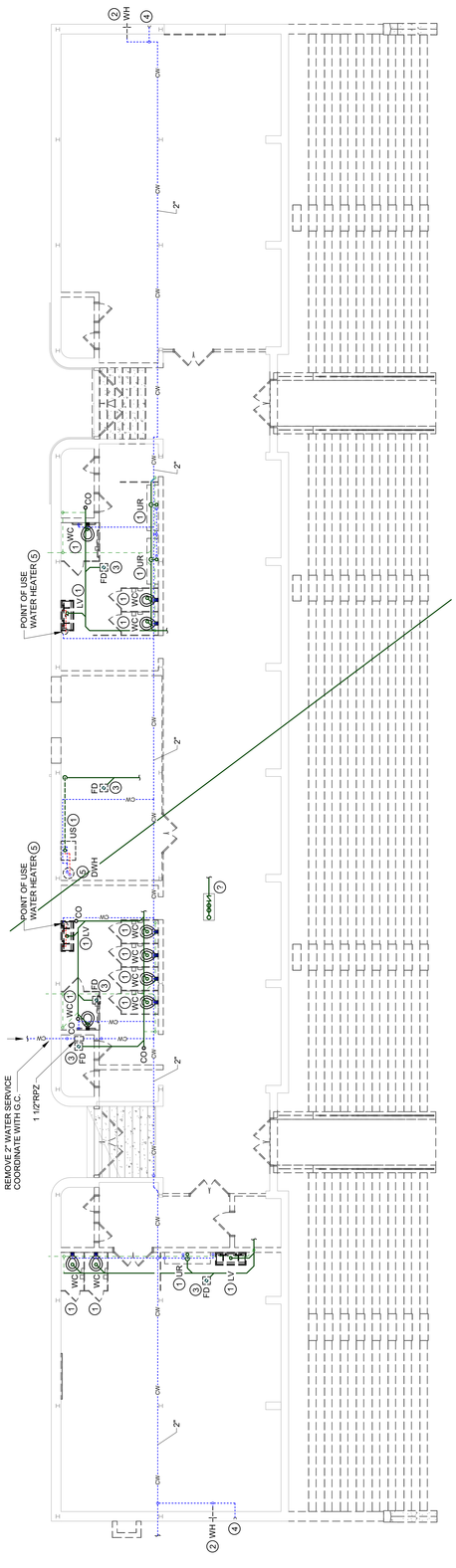
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SHEET TITLE:
**PLUMBING SCHEDULES AND NOTES**

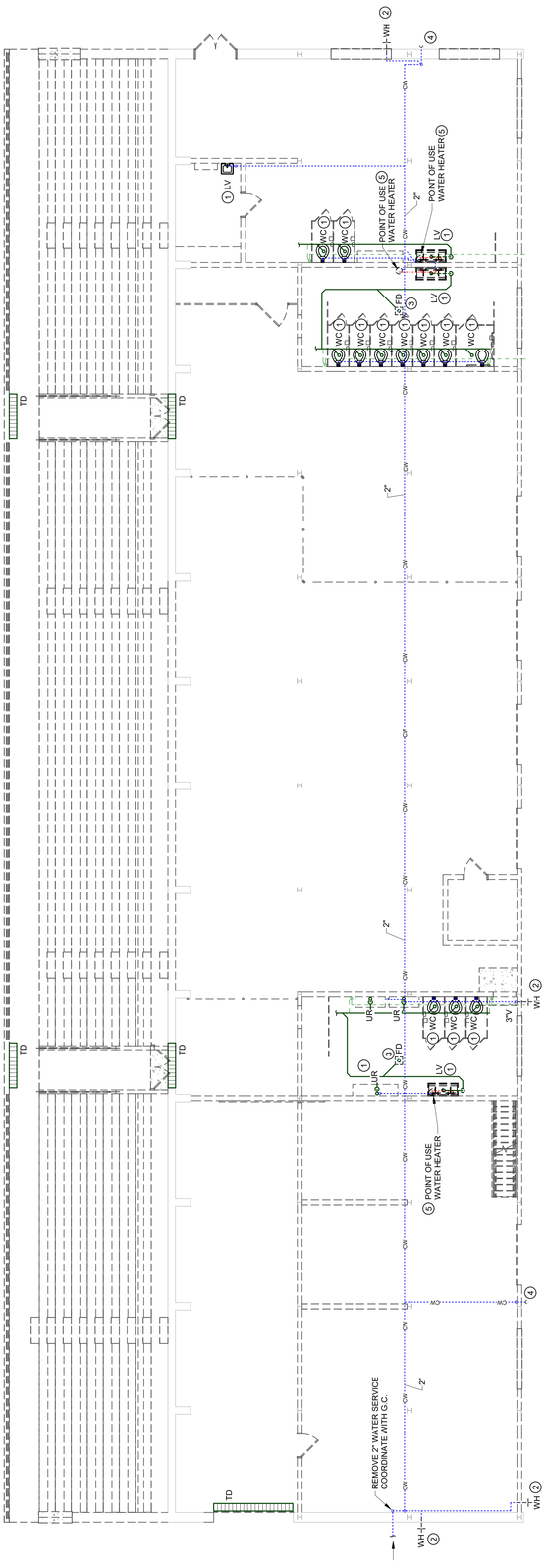
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1 VISITOR FIRST FLOOR PLAN - PLUMBING DEMOLITION
1/8" = 1'-0"




2 HOME FIRST FLOOR PLAN - PLUMBING DEMOLITION
1/8" = 1'-0"

## (#) DRAWING NOTES:

1. REMOVE PLUMBING FIXTURE AND ALL ASSOCIATED WATER AND DRAIN PIPING. ABANDON AND CAP DRAIN PIPING BELOW FLOOR.
2. REMOVE WALL HYDRANT AND ALL ASSOCIATED PIPING. PATCH AND REPAIR WALL TO MATCH EXISTING SURROUNDINGS.
3. REMOVE FLOOR DRAIN AND PIPING TO BELOW FLOOR AND CAP.
4. REMOVE EXTERIOR IRRIGATION HOSE CONNECTION. PATCH AND REPAIR WALL TO MATCH EXISTING SURROUNDINGS.
5. REMOVE WATER HEATER AND ALL ASSOCIATED PIPING.

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SHEET TITLE:
**FIRST FLOOR PLANS - PLUMBING DEMOLITION**

SHEET NUMBER:
**P1.1**

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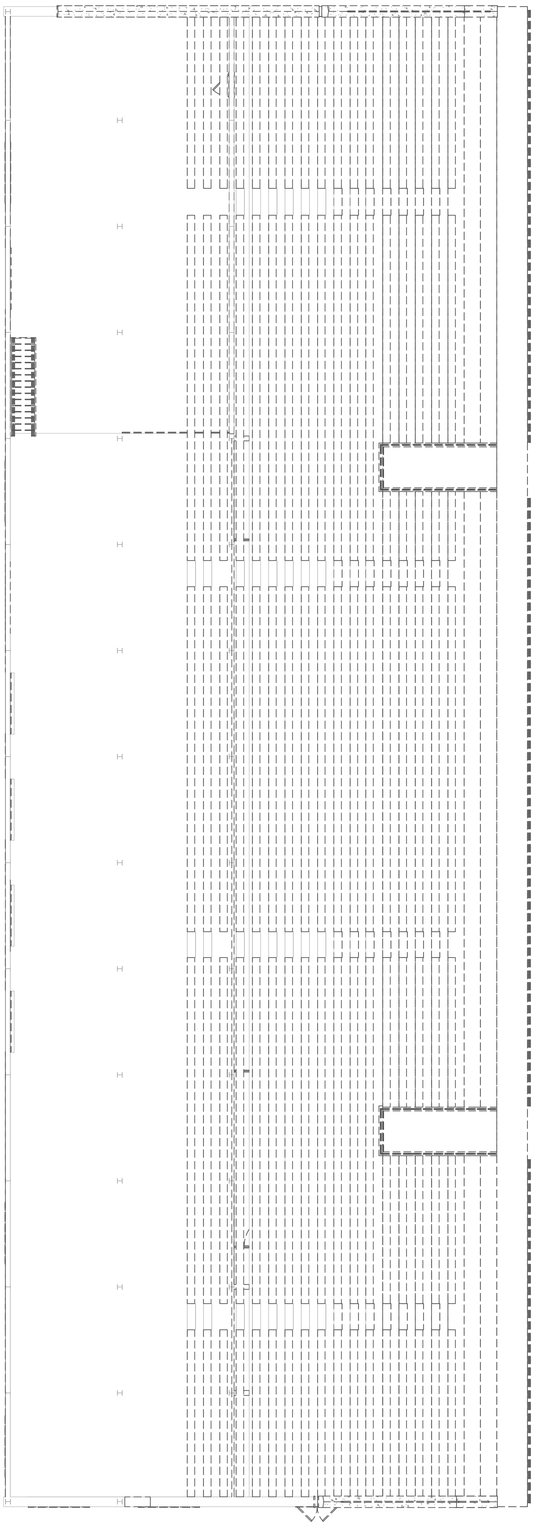
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1 HOME SECOND FLOOR PLAN - PLUMBING DEMOLITION
1/8" = 1'-0"

④ DRAWING NOTES:

1. --

**BID DOCUMENTS**

SHEET NUMBER: **P1.2**

SHEET TITLE: **SECOND FLOOR PLAN - PLUMBING DEMOLITION**

PROJ #: 24-SDL-03 DRAWN BY: Author

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# J.P. MCCASKEY STADIUM PROJECTS

SCHOOL DISTRICT OF LANCASTER

445 N RESERVOIR ST, LANCASTER, PA 17602

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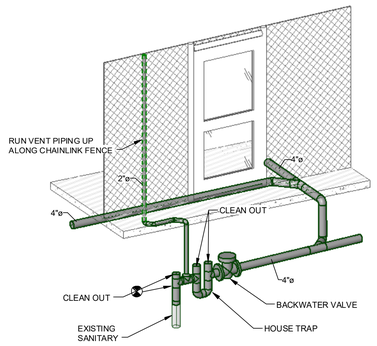
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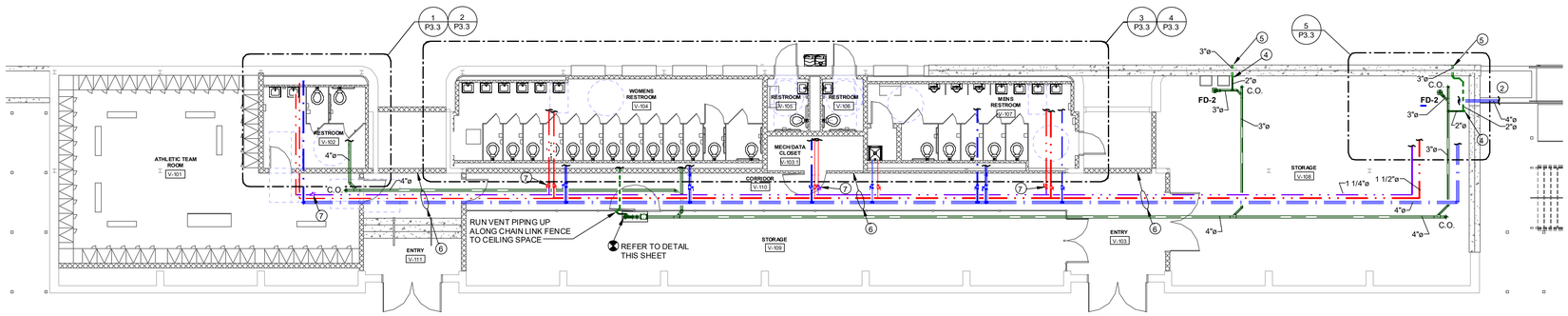
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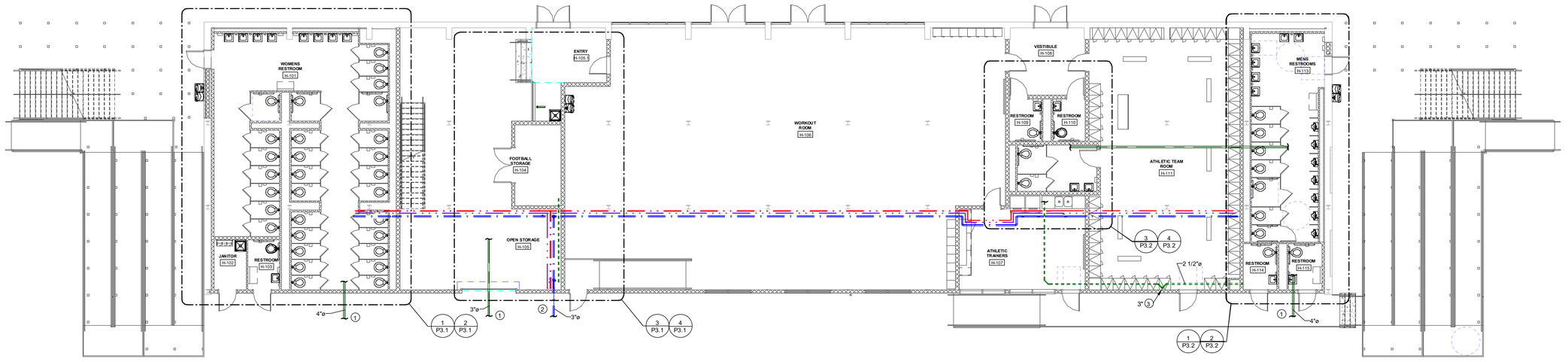
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3 HOUSE TRAP BACKWATER VALVE DETAIL




1 VISITOR FIRST FLOOR PLAN - PLUMBING
1/8" = 1'-0"




2 HOME FIRST FLOOR PLAN - PLUMBING
1/8" = 1'-0"

## DRAWING NOTES:

1. EXTEND SANITARY DRAIN PIPING OUTSIDE BUILDING FOR CONNECTION TO SITE PIPING, FIELD COORDINATE EXACT LOCATION AND INVERT WITH G.C.
2. EXTEND DOMESTIC WATER PIPING OUTSIDE BUILDING FOR CONNECTION TO SITE PIPING, FIELD COORDINATE EXACT LOCATION AND INVERT WITH G.C. PROVIDE MINIMUM 3'-0" COVER.
3. RUN SANITARY VENT PIPING UP THRU FLOOR ABOVE. REFER TO MEZZANINE PLAN FOR CONTINUATION.
4. RUN VENT PIPING UP ALONG WALL TO CEILING.
5. SIDE WALL SANITARY VENT WITH BIRD SCREEN.
6. RUN WATER PIPING MAINS VERTICALLY STACKED ALONG WALL.
7. INSTALL SHUT-OFF VALVE, BALANCING VALVE AND CHECK VALVE, REFER TO DETAIL.

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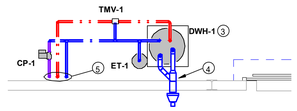
**FIRST FLOOR PLANS - PLUMBING**

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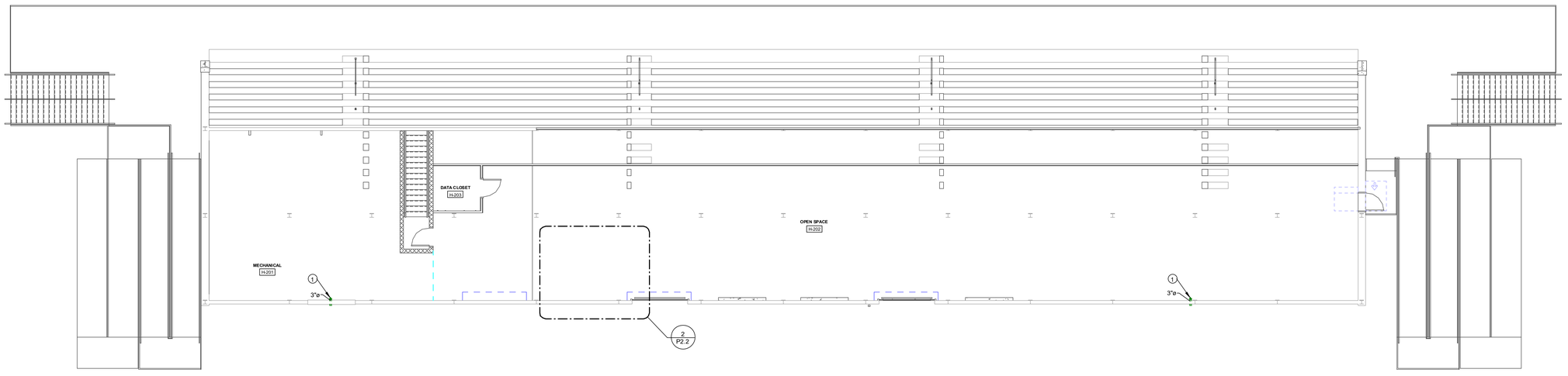
**P2.1**

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② HOME SECOND FLOOR WATER HEATER PLAN
1/4" = 1'-0"




① HOME SECOND FLOOR PLAN - PLUMBING
1/8" = 1'-0"

## # DRAWING NOTES:

1. RUN SANITARY VENT PIPING UP FLOOR BELOW ALONG WALL AND TERMIATE OUTSIDE BUILDING - SIDE WALL VENT WITH BIRD SCREEN.
2. RUN WATER PIPING MAINS UP FROM FLOOR BELOW.
3. INSTALL WATER HEATER PER MANUFACTURERS REQUIREMENTS, PROVIDE 4" THICK HOUSE KEEPING PAD, PAD SHALL EXTEND 4" OUT ON ALL SIDES.
4. RUN AIR INTAKE AND FLUE EXHAUST UP AND OUT, PROVIDE MANUFACTURED CONCENTRIC SIDEWALL TERMINATION KIT.
5. RUN WATER PIPING MAINS UP FROM FLOOR BELOW.

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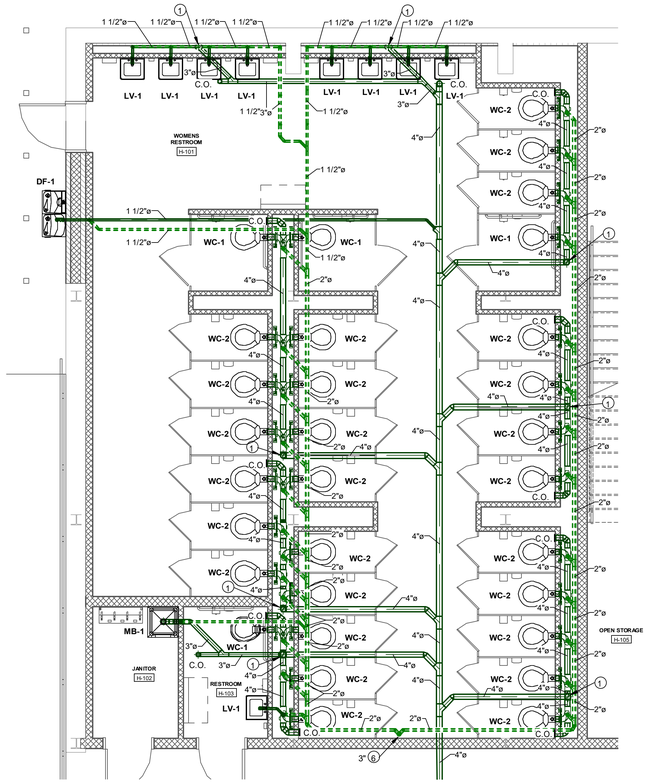
**SECOND FLOOR PLAN - PLUMBING**

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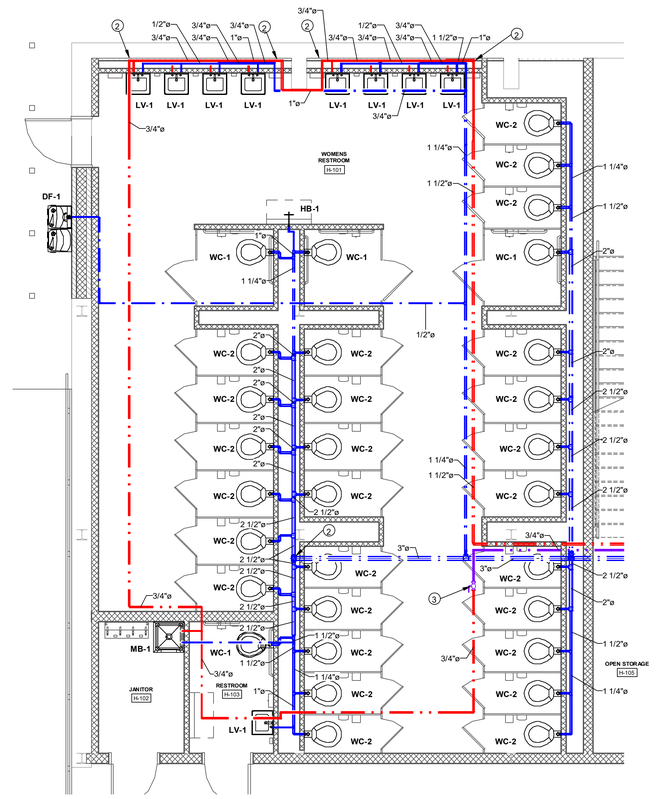
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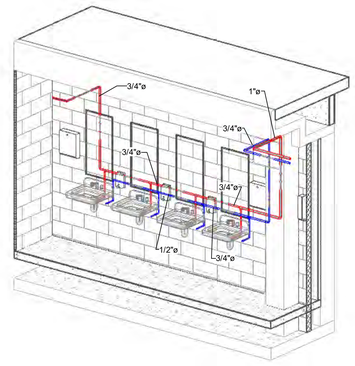
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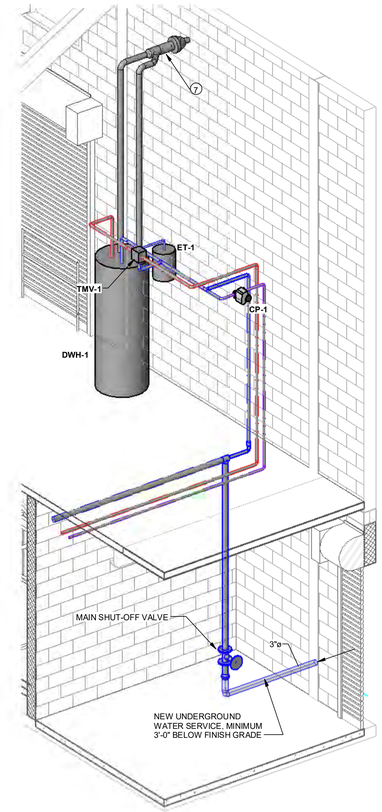

1 WOMENS RESTROOM H-101 DRAIN PIPING PLAN
1/4" = 1'-0"



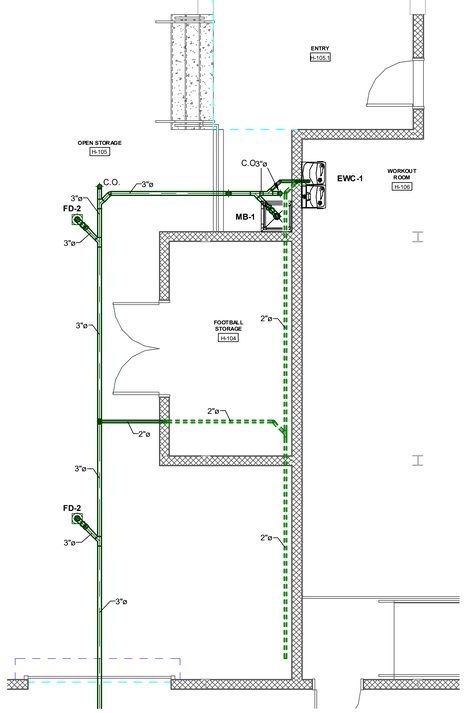

2 WOMENS RESTROOM H-101 WATER PIPING PLAN
1/4" = 1'-0"



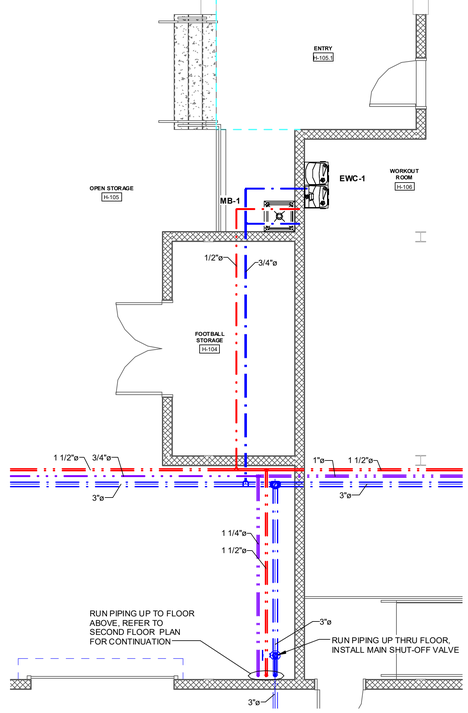

6 MULTI-LAVATORY WATER PIPING DETAIL




5 WATER SERVICE DETAIL




3 STORAGE H-105 & WORKOUT RM H-106 DRAIN PIPING PLAN
1/4" = 1'-0"




4 STORAGE H-105 & WORKOUT RM H-106 WATER PIPING PLAN
1/4" = 1'-0"

## DRAWING NOTES:

1. RUN PIPING DOWN TO BELOW FLOOR.
2. RUN PIPING DOWN INTO CHASE SPACE.
3. INSTALL SHUT-OFF VALVE, BALANCING VALVE AND CHECK VALVE, REFER TO DETAIL.
4. CIRCULATE HW PIPING DOWN TO LAVATORY, REFER TO DETAIL.
5. SIDE WALL SANITARY VENT WITH BIRD SCREEN.
6. RUN SANITARY VENT PIPING UP THRU FLOOR ABOVE. REFER TO MEZZANINE PLAN FOR CONTINUATION.
7. RUN AIR INTAKE AND FLUE EXHAUST UP AND OUT, PROVIDE MANUFACTURED CONCENTRIC SIDEWALL TERMINATION KIT.

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CONSULTANT:

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RENOVATIONS
J.P. MCCASKEY STADIUM
PROJECTS
SCHOOL DISTRICT OF LANCASTER
445 N RESERVOIR ST, LANCASTER, PA. 17602

ISSUE DATES
DATE: 01/08/2025 DESCRIPTION: BID DOCUMENTS

PROJ # : 24-SDL-03 DRAWN BY : Author

SHEET TITLE:

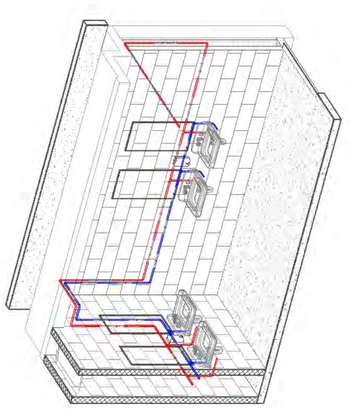
**ENLARGED PLUMBING PLANS**

SHEET NUMBER:

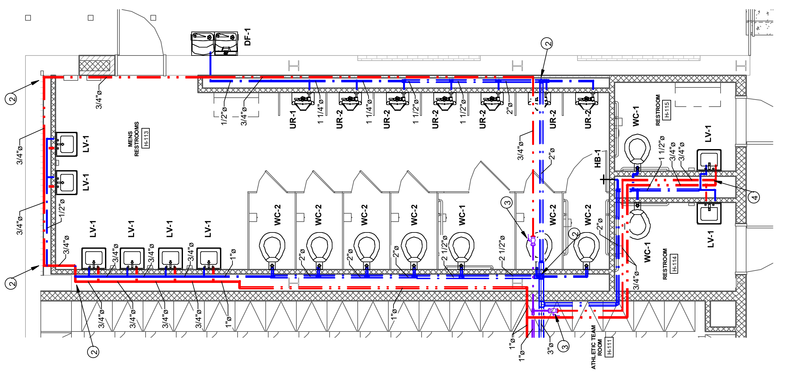
**P3.1**

**BID DOCUMENTS**

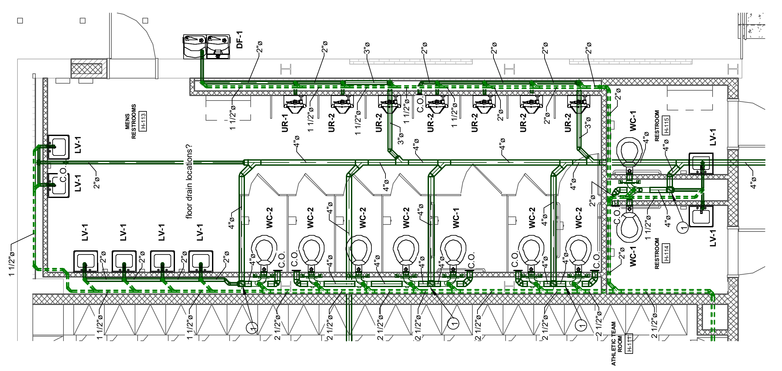
1/3/2025 5:12:15 PM



5 LAVATORY WATER PIPING DETAIL



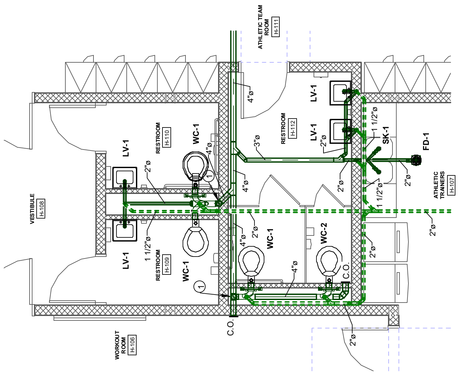

2 MENS RESTROOM H-113 WATER PIPING PLAN
1/4" = 1'-0"



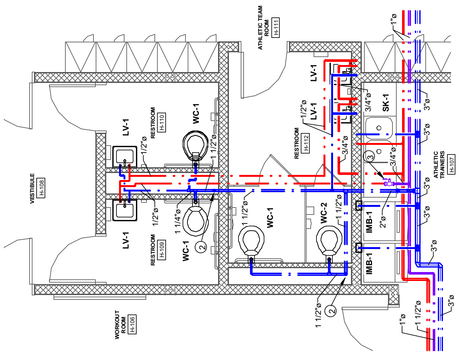

1 MENS RESTROOM H-113 DRAIN PIPING PLAN
1/4" = 1'-0"

DRAWING NOTES:

1. RUN PIPING DOWN TO BELOW FLOOR.
2. RUN PIPING DOWN INTO CHASE SPACE.
3. INSTALL SHUT-OFF VALVE, BALANCING VALVE AND CHECK VALVE. REFER TO DETAIL.
4. CIRCULATE HW PIPING DOWN TO LAVATORY. REFER TO DETAIL.




3 ATHLETIC TEAM RESTROOMS DRAIN PIPING PLAN
1/4" = 1'-0"




4 ATHLETIC TEAM RESTROOMS WATER PIPING PLAN
1/4" = 1'-0"

BID DOCUMENTS

SHEET NUMBER: P3.2

SHEET TITLE: ENLARGED PLUMBING PLANS

PROJ # : 24-800-03 DRAWN BY : Author

ISSUE DATES

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| 01/08/2025 | BID DOCUMENTS |

RENOVATIONS
J.P. MCCASKEY STADIUM
PROJECTS
SCHOOL DISTRICT OF LANCASTER
445 N RESERVOIR ST, LANCASTER, PA 17602

CONSULTANT:
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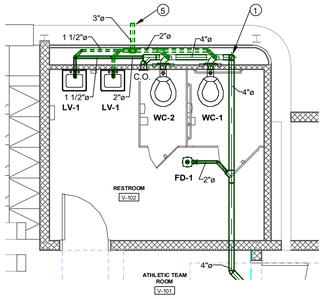
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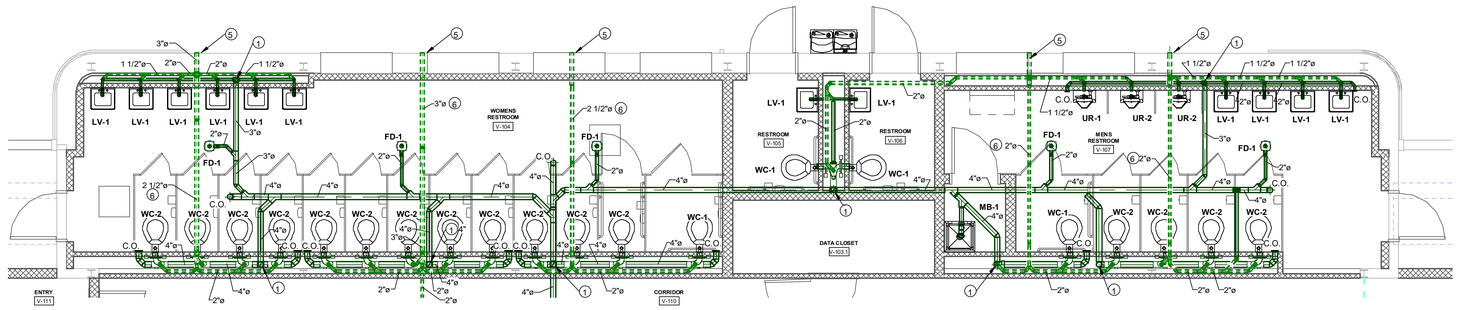
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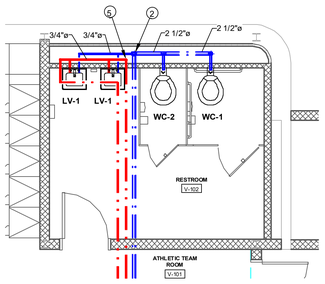
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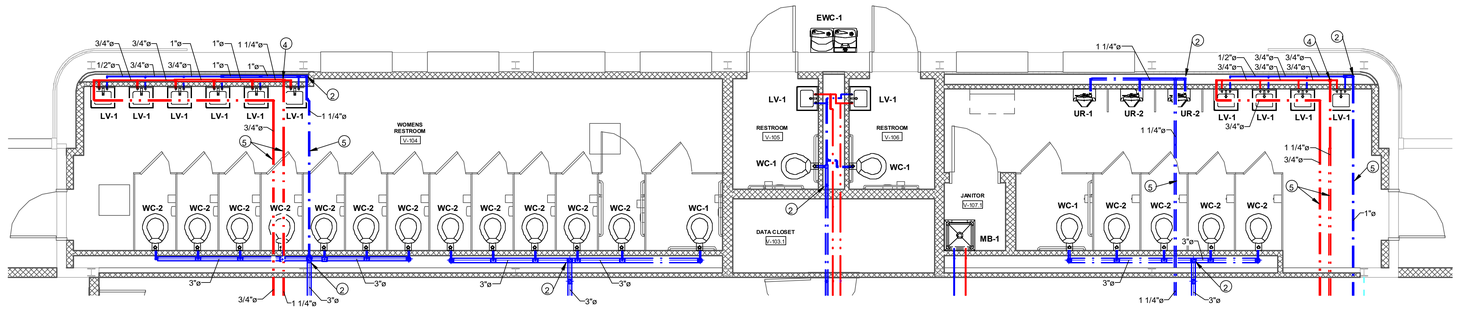

1 RESTROOM V-102 DRAIN PIPING PLAN
1/4" = 1'-0"



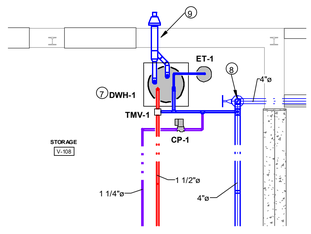

3 WOMENS RESTROOM V-104 DRAIN PIPING PLAN
1/4" = 1'-0"




2 RESTROOM V-102 WATER PIPING PLAN
1/4" = 1'-0"




4 WOMENS RESTROOM V-104 WATER PIPING PLAN
1/4" = 1'-0"




5 VISITOR BLEACHER STORAGE V-108 PIPING PLAN
1/4" = 1'-0"

## ⑥ DRAWING NOTES:

1. RUN PIPING DOWN TO BELOW FLOOR.
2. RUN PIPING DOWN INTO CHASE SPACE.
3. INSTALL SHUT-OFF VALVE, BALANCING VALVE AND CHECK VALVE, REFER TO DETAIL.
4. CIRCULATE HW PIPING DOWN TO LAVATORY, REFER TO DETAIL.
5. SIDE WALL SANITARY VENT WITH BIRD SCREEN.
6. RUN PIPING WITH SLOPE OF STRUCTURE.
7. INSTALL WATER HEATER PER MANUFACTURERS REQUIREMENTS, PROVIDE 4" THICK HOUSE KEEPING PAD, PAD SHALL EXTEND 4" OUT ON ALL SIDES.
8. RUN WATER PIPING MAIN UP THRU FLOOR, PROVIDE SHUT-OFF VALVE IN VERTICAL RISER.
9. RUN AIR INTAKE AND FLUE EXHAUST UP AND OUT, PROVIDE MANUFACTURED CONCENTRIC SIDEWALL TERMINATION KIT.

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RENOVATIONS
J.P. MCCASKEY STADIUM
PROJECTS
SCHOOL DISTRICT OF LANCASTER
445 N RESERVOIR ST, LANCASTER, PA 17602

ISSUE DATES
DATE: 01/09/2025
DESCRIPTION: BID DOCUMENTS

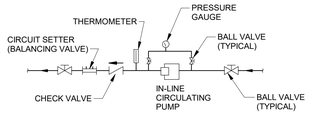
PROJ # : 24-SDL-03
DRAWN BY : Author

SHEET TITLE:
**ENLARGED PLUMBING PLANS**

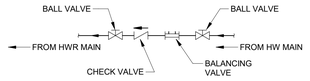
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**P3.3**

**BID DOCUMENTS**

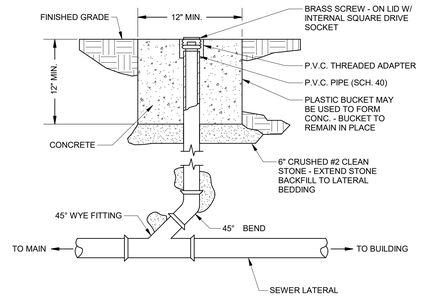
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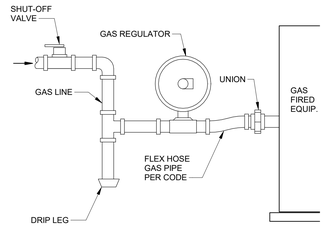

CIRCULATING PUMP DETAIL
NO SCALE



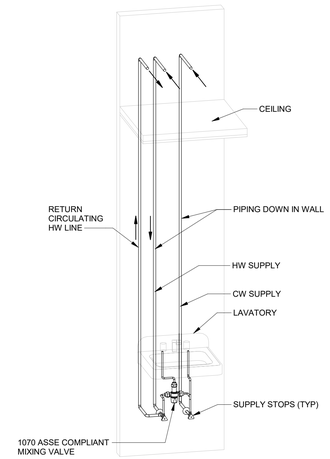

DOMESTIC HWR VALVE DETAIL
NO SCALE




4" & 6" SERVICE LATERAL CLEANOUTS
NO SCALE




GAS CONNECTION DETAIL
NO SCALE




LAVATORY PIPING DETAIL
NO SCALE

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SCHOOL DISTRICT OF LANCASTER
445 N RESERVOIR ST, LANCASTER, PA 17602

ISSUE DATES
DATE: 01/08/2025
DESCRIPTION: BID DOCUMENTS

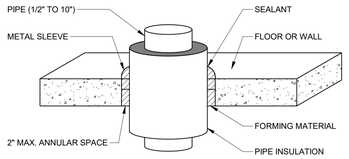
PROJ # : 24-SDL-03
DRAWN BY : Author

SHEET TITLE:
PLUMBING DETAILS

SHEET NUMBER:
P4.1

BID DOCUMENTS

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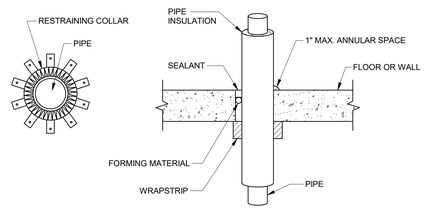



NOTES:

1. PIPE INSULATION - NOMINAL 1-1/2" THICK OR THINNER, FIBERGLASS INSULATION.
2. FORMING MATERIAL-TIGHTLY PACK MIN. 4pcf MINERAL WOOL BATT INSULATION TO FILL THE ANNULAR SPACE AND RECESS 1" FROM THE TOP SURFACE OF THE FLOOR OR FROM BOTH SURFACES OF THE WALL.
3. NELSON ES1399 SEALANT - OR EQUAL APPLY ES1399 SEALANT OVER THE FORMING MATERIAL TO A MIN. 1" DEPTH, FLUSH WITH THE TOP SURFACE OF THE FLOOR OR WITH BOTH SURFACES OF THE WALL. AT AREAS OF POINT OF CONTACT, APPLY A 1/4" BEAD AT THE INTERFACE BETWEEN THE INSULATED PIPE AND PERIPHERY OF THE OPENING.

## TYPICAL PIPE PENETRATION
## 1-HOUR, 2-HOUR RATED WALL OR FLOOR
## COPPER OR STEEL PIPE-INSULATED

NO SCALE

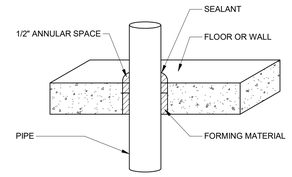



NOTES:

1. NELSON LBS+ SEALANT OR EQUAL - APPLY TO A MIN. 1/2" DEPTH WITHIN THE ANNULAR SPACE, FLUSH WITH THE TOPSIDE OF THE FLOOR OR WITH BOTH SURFACES OF WALL. AT AREAS OF POINT OF CONTACT, APPLY A 1/4" BEAD AT THE CONCRETE/PIPE INTERFACE ON TOP SURFACE OF FLOOR OR BOTH SURFACES OF THE WALL.
2. FORMING MATERIAL - INSTALL BACKER ROD INTO THE OPENING AND RECESS 1/2" FROM THE TOP SURFACE OF THE FLOOR. BACKER ROD NOT REQUIRED IN WALL.
3. NELSON WRS+ WRAPSTRIP OR EQUAL - APPLY 4 CONTINUOUS LAYERS OF 2" WIDE NELSON WRAPSTRIP AROUND THE PIPE TO THE UNDERSIDE OF THE FLOOR OR BOTH SIDES OF THE WALL.
4. RESTRAINING COLLAR - APPLY MIN. 28 GA. glv. STEEL RESTRAINING COLLAR AROUND THE WRAPSTRIP. ATTACH THE COLLAR TO THE FLOOR WITH A MIN. 1/4" DIAMETER STEEL MASONRY ANCHORS AND WASHERS.

## TYPICAL PIPE PENETRATION
## 1-HOUR, 2-HOUR RATED WALL OR FLOOR
## PVC - 6" - 8" INSULATED

NO SCALE

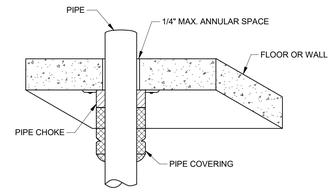



NOTES:

1. FORMING MATERIAL - TIGHTLY PACK MIN. 4pcf MINERAL WOOL BATT INSULATION TO FILL THE ANNULAR SPACE TO A MIN 2-1/2" DEPTH, AND RECESS 2" FROM THE TOP SURFACE OF THE FLOOR OR FROM BOTH SURFACES OF THE WALL. FOAM BACKER ROD MAY BE USED WHEN PVC PIPE IS USED.
2. NELSON LBS + SEALANT OR EQUAL - APPLY TO FILL THE ANNULAR SPACE TO A MIN. 2" DEPTH OVER THE FORMING MATERIAL. SEALANT IS TO BE INSTALLED ON BOTH SIDES OF THE WALL FLUSH WITH BOTH SURFACES, OR ON TOP SIDE OF THE FLOOR, FLUSH WITH TOP SURFACE.

## TYPICAL PIPE PENETRATION
## 1-HOUR, 2-HOUR RATED WALL OR FLOOR
## PVC - 3" UNINSULATED

NO SCALE

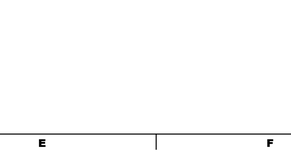



NOTES:

1. NELSON PCS PIPE CHOKE - APPLY THE APPROPRIATE SIZED PIPE CHOKE AROUND THE PIPE ON THE UNDERSIDE OF THE FLOOR, OR ON BOTH SIDES OF THE WALL. SECURE TO THE CONCRETE WITH STEEL MASONRY ANCHORS AND FENDER WASHERS.
2. PIPE COVERING - APPLY A NOMINAL 1" THICK, 7-1/2" LONG HOLLOW CYLINDRICAL HEAVY DENSITY GLASS FIBER PIPE INSULATION, BUTTED AGAINST THE BOTTOM OF THE PCS DEVICE. IN WALL PENETRATIONS, APPLY TO BOTH SIDES. SECURE TO PIPE WITH STEEL TIE WIRE.

## TYPICAL PIPE PENETRATION
## 1-HOUR, 2-HOUR RATED WALL OR FLOOR
## FLAME RETARDANT POLYPROPYLENE
## 1-1/2", 2" UNINSULATED

NO SCALE

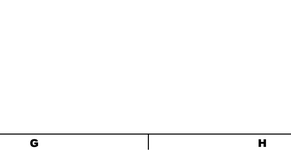



NOTES:

1. FORMING MATERIAL - INSTALL BACKER ROD INTO THE OPENING AND RECESS 1" FROM THE TOP SURFACE OF THE SOLID FLOOR OR FROM BOTH SURFACES OF THE WALL.
2. NELSON LBS + SEALANT OR EQUAL - APPLY TO FILL THE ANNULAR SPACE TO A MIN. 1" DEPTH OVER THE BACKER ROD. SEALANT IS TO BE INSTALL ON BOTH SIDES OF THE WALL FLUSH WITH BOTH SURFACES, OR ON TOP SIDE OF THE SOLID FLOOR, FLUSH WITH TOP SURFACE.

## TYPICAL PIPE PENETRATION
## 1-HOUR, 2-HOUR RATED WALL OR FLOOR
## PVC - 1-1/2", 2" UNINSULATED

NO SCALE

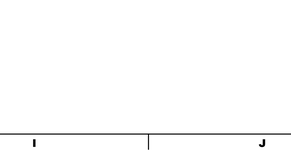



NOTE:

1. NELSON PCS PIPE CHOKE OR EQUAL - APPLY THE APPROPRIATE SIZED PIPE CHOKE AROUND THE PIPE ON THE UNDERSIDE OF THE FLOOR, OR ON BOTH SIDES OF THE WALL. SECURE TO THE CONCRETE WITH STEEL MASONRY ANCHORS AND FENDER WASHERS.

## TYPICAL PIPE PENETRATION
## 1-HOUR, 2-HOUR RATED WALL OR FLOOR
## PVC - 4" UNINSULATED

NO SCALE




NOTES:

1. FORMING MATERIAL-TIGHTLY PACK MIN. 4pcf MINERAL WOOL BATT INSULATION OR 1" DIAMETER BACKER ROD TO FILL THE ANNULAR SPACE AND RECESS 1/2" FROM THE TOP SURFACE OF THE FLOOR OR FROM BOTH SURFACES OF THE WALL.
2. NELSON ES1399 SEALANT - OR EQUAL APPLY ES1399 SEALANT OVER THE FORMING MATERIAL TO A MIN. 1/2" DEPTH, FLUSH WITH THE TOP SURFACE OF THE FLOOR OR WITH BOTH SURFACES OF THE WALL. AT AREAS OF POINT OF CONTACT, APPLY A 3/8" BEAD AT THE INTERFACE BETWEEN THE PIPE AND THE FLOOR OR WALL.

## TYPICAL PIPE PENETRATION
## 1-HOUR, 2-HOUR RATED WALL OR FLOOR
## COPPER OR STEEL PIPE-UNINSULATED

NO SCALE

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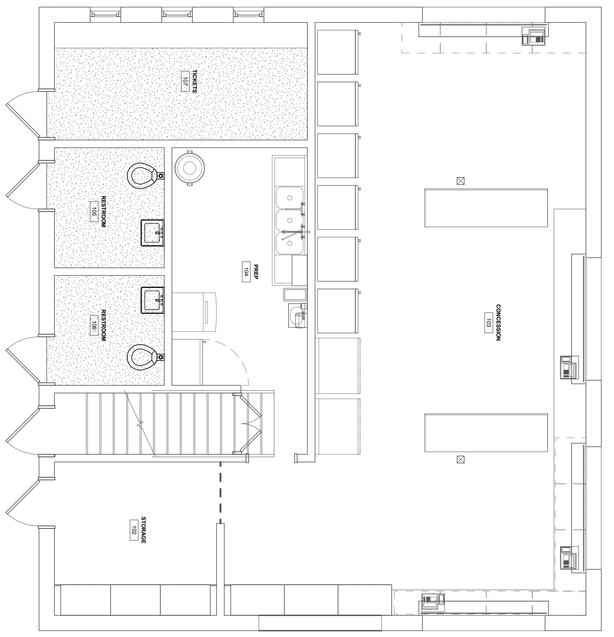
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SHEET NUMBER:

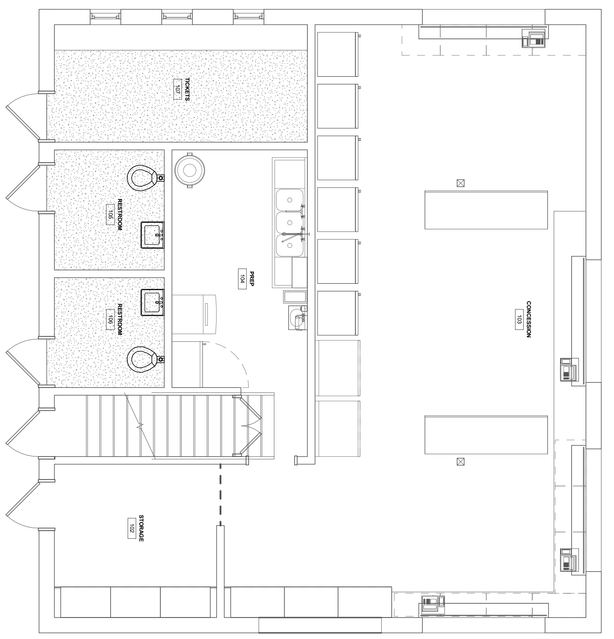
**P4.2**

**BID DOCUMENTS**

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1 FIRST FLOOR PLUMBING DEMOLITION
1/4" = 1'-0"




2 FIRST FLOOR PLUMBING
1/4" = 1'-0"

DRAWING NOTES:

1. –
2. –

**BID DOCUMENTS**

**SHEET NUMBER:** P5.1

**SHEET TITLE:** CONCESSION STAND PLANS - PLUMBING

PROJ # : 2420C-03 DRAWN BY : Author

**ISSUE DATES**

| DATE: | DESCRIPTION: |
|---|---|
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RENOVATIONS
# J.P. MCCASKEY STADIUM PROJECTS
SCHOOL DISTRICT OF LANCASTER
445 N RESIVIOR ST., LANCASTER, PA 17602

**CONSULTANT:**
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## RECEPTACLES/FLOORBOXES/POWER POLES

| SYMBOL | DESCRIPTION |
|---|---|
| | 120V DUPLEX RECEPTACLE |
| | 120V DUPLEX RECEPTACLE - CEILING MOUNTED |
| | 120V QUAD RECEPTACLE |
| | 120V QUADUPLEX RECEPTACLE - CEILING MOUNTED |
| | 120V SIMPLEX RECEPTACLE |
| | 120V DUPLEX RECEPTACLE - TOP HALF SWITCHED |
| | 120V DUPLEX RECEPTACLE - CONNECTED TO NORMAL/EMERGENCY POWER |
| | 120V QUADUPLEX RECEPTACLE - CONNECTED TO NORMAL/EMERGENCY POWER |
| R | 14-50R RANGE RECEPTACLE WITH MATCHING PLUG AND CORD |
| D | 14-30R DRYER RECEPTACLE WITH MATCHING PLUG AND CORD |
| 0-00 0-00 | SIMPLEX RECEPTACLE WITH NEMA CONFIGURATION AS NOTED |
| | 120V RECEPTACLES CORDREEL HUNG FROM WALL/CEILING UNLESS OTHERWISE NOTED |
| ? | 208V/240V CORDREEL HUNG FROM WALL/CEILING - PROVIDE WITH NEMA RECEPTACLE TO MATCH EQUIPMENT CORD/PLUG |
| | RECESSED MULTI-SERVICE FLOOR BOX/MULTI-SERVICE POKE-THRU FOR MOUNTING DEVICES INDICATED |
| A B | MULTI-SERVICE FLOOR BOX FOR MOUNTING DEVICES INDICATED |
| | FLOOR BOX/POKE-THRU FOR FURNITURE FEED |
| | PEDESTAL-TYPE FLOOR BOX FOR MOUNTING DEVICES INDICATED |
| | RECESSED MULTI-SERVICE FLUSH FLOOR BOX/MULTI-SERVICE POKE-THRU FOR MOUNTING DEVICES INDICATED |
| | MULTI-SERVICE FLOOR BOX FOR MOUNTING DEVICES INDICATED |
| | PEDESTAL-TYPE FLOOR BOX FOR MOUNTING DEVICES INDICATED |
| | FLUSH FLOOR BOX/POKE-THRU FOR RECEPTACLE AND DATA DEVICES INDICATED |
| | MULTI-SERVICE FLOOR BOX FOR MOUNTING DEVICES INDICATED |
| | FLOOR BOX/POKE-THRU FOR FURNITURE FEED AND DATA DEVICES INDICATED |
| PP | POWER POLE FOR MOUNTING DEVICES INDICATED (HEIGHT AS REQUIRED) |
| HD | HAND DRYER |
| RH | RANGE HOOD |
| DW | DISHWASHER |

## RECEPTACLES - ATTRIBUTES

| | |
|---|---|
| B | MOUNTED HORIZONTALLY IN BASEBOARD KICK SPACE |
| H | HOSPITAL GRADE DEVICE INSTALLED PER NEC ARTICLE 517 FOR HEALTH CARE FACILITIES |
| GF | INTEGRAL GROUND FAULT |
| IG | ISOLATED GROUND |
| SI | INTEGRAL SURGE PROTECTION, ISOLATED GROUND |
| SP | INTEGRAL SURGE PROTECTION |
| TR | TAMPER RESISTANT (CHILD PROOF) |
| WC | DEDICATED FOR WATER COOLER. MOUNT AT THE HEIGHT/LOCATION REQUIRED BY THE WATER COOLER TRANSFORMER |
| VM | DEDICATED FOR VENDING MACHINE |
| M | MICROWAVE RECEPTACLE. REFER TO ARCHITECTURAL ELEVATION FOR HEIGHT/LOCATION |
| L | GROUND FAULT RECEPTACLE FOR LAVATORY TRANSFORMER. MOUNT AT THE HEIGHT/LOCATION REQUIRED BY THE LAVATORY TRANSFORMER |
| WP | WEATHERPROOF IN-USE COVER |
| 00" | MOUNT AT HEIGHT TO CENTER INDICATED |
| • | MOUNT AT 8" ABOVE COUNTER |
| XP | EXPLOSION PROOF |
| U | DUPLEX RECEPTACLE WITH INTEGRAL USB CHARGER |
| 4U | 4 PORT USB CHARGER RECEPTACLE |
| SP/P | INTEGRAL SURGE PROTECTION, MOUNTED AT PROJECTOR HEIGHT (VERIFY WITH OWNER) |
| SP/T | INTEGRAL SURGE PROTECTION, MOUNTED AT TELEVISION HEIGHT (VERIFY WITH OWNER) |

## TELECOMMUNICATIONS OUTLETS

| SYMBOL | DESCRIPTION |
|---|---|
| | REFER TO DETAIL DRAWINGS FOR OUTLET TYPES |

## TELECOMMUNICATIONS - ATTRIBUTES

| | |
|---|---|
| 00" | MOUNT AT HEIGHT TO CENTER INDICATED |
| • | MOUNT AT 8" ABOVE COUNTER |
| C# | COMPUTER OUTLET - # INDICATES NUMBER OF JACKS |
| TS | TEACHER STATION |
| P | PROJECTOR OUTLET |
| PS | PRESENTER STATION |
| TV | TELEVISION OUTLET |

## WIRING

| SYMBOL | DESCRIPTION |
|---|---|
| | CONDUIT & WIRE |
| | CONDUIT & WIRE UNDERFLOOR OR UNDERGROUND |
| | HOME RUN WITH PANEL & CIRCUIT NUMBER NOTED |
| // | MULTIPLE SWITCHED CIRCUITS FED FROM SAME HOME RUN |
| UG | UNDERGROUND |
| OH | OVERHEAD |
| E | NORMAL/EMERGENCY CIRCUIT |
| C | CONDUIT DOWN |
| C | CONDUIT UP |
| | END OF CONDUIT |

## INTERCOM/MASTER CLOCK/SOUND SYSTEMS

| SYMBOL | DESCRIPTION |
|---|---|
| | 1 MICROPHONE INLET |
| | MICROPHONE INLETS ON ONE PLATE (QUANTITY AS INDICATED) |
| | CEILING MOUNTED HANGING MICROPHONE INLET |
| | 1 FLOOR MOUNTED MICROPHONE INLET |
| * | FLOOR MOUNTED MICROPHONE INLETS (QUANTITY AS INDICATED) |
| | AUXILIARY INPUT JACK |
| | LOCAL SOUND WALL MOUNTED SPEAKER |
| S | LOCAL SOUND CEILING MOUNTED SPEAKER |
| S | PAGING INTERCOM SYSTEM CEILING MOUNTED SPEAKER |
| SZ | PAGING INTERCOM SYSTEM CEILING MOUNTED SPEAKER, NON IP BASED |
| | PAGING INTERCOM SYSTEM WALL MOUNTED SPEAKER |
| N | PAGING INTERCOM SYSTEM WALL MOUNTED SPEAKER, NON IP BASED |
| | WALL MOUNTED EXTERIOR SPEAKER |
| | VOLUME CONTROL |
| MSJ | MONITOR SPEAKER JACK |
| CS | CALL SWITCH |
| | CLOCK/SPEAKER COMBINATION |
| | WALL CLOCK |
| | DUAL FACE CLOCK |
| MR | MIXER REMOTE CONTROL WITH AUXILARY JACK IN CABINET |
| TS | TOUCH SCREEN CONTROLLER IN CABINET |
| DO | DISPLAY OUTPUT |
| PO | PROJECTOR OUTPUT |
| VI | VIDEO INPUT |
| A | WIRELESS ANTENNA/ASSISTIVE LISTENING ANTENNA |

## VIDEO SURVEILLANCE/ACCESS CONTROL SYSTEM

| SYMBOL | DESCRIPTION |
|---|---|
| CA | ACCESS SYSTEM CARD READER |
| K | INTRUSION DETECTION SYSTEM KEYPAD |
| H/C | HANDICAP (ADA) DOOR OPERATOR PUSH PAD |
| | INTRUSION DETECTION SYSTEM WALL MOUNTED MOTION DETECTOR |
| M | INTRUSION DETECTION SYSTEM CEILING MOUNTED MOTION DETECTOR |
| A | INTRUSION DETECTION SYSTEM WALL MOUNTED AUDIO SOUNDER |
| | CEILING MOUNTED CAMERA |
| | WALL MOUNTED CAMERA |
| | 360 DEGREE CEILING MOUNTED CAMERA |
| RX | REQUEST TO EXIT DEVICE |
| ES | ELECTRIC STRIKE FOR DOOR ACCESS SYSTEM |
| BG | GLASS BREAK SENSOR - CEILING MOUNTED UNLESS OTHERWISE INDICATED |
| DC | ACCESS/INTRUSION SYSTEM DOOR CONTACT |
| DHP | DOOR HARDWARE PACKAGE PER SPECIFICATIONS. PROVIDE 3/4" CONDUIT AND WIRING TO ALL EQUIPMENT SHOWN IN THE HARDWARE SETS/SCHEDULES, DRAWINGS, AND AS NEEDED FOR ALL ASSOCIATED SYSTEMS. DOOR SHALL OPERATE AS DESCRIBED IN THE NOTES OF THE SPECIFICATIONS AND THE PROJECTS REQUIREMENTS. |
| IC | INTERCOM/CAMERA ENTRANCE STATION |
| MS | INTERCOM/CAMERA MASTER STATION |
| DR | DOOR RELEASE PUSH BUTTON STATION |
| DL | DOOR LOCKDOWN PUSH BUTTON STATION |
| MR | MAGNETIC RELEASE BUTTON STATION |

## POWER DISTRIBUTION AND CONTROL

| SYMBOL | DESCRIPTION |
|---|---|
| PS | PUSH-BUTTON STATION |
| E | EMERGENCY PUSHBUTTON |
| KE | EMERGENCY PUSHBUTTON WITH KEY RESET |
| GV | GAS VALVE SHUTOFF |
| | FUSED DISCONNECT SWITCH |
| MT | MANUAL MOTOR STARTING SWITCH WITH THERMAL OVERLOAD DEVICE |
| MX | LOCAL DISCONNECT SWITCH- SINGLE OR 2 POLE AS REQUIRED |
| | CONTACTOR |
| | MOTOR STARTER (FURNISHED BY M.C. UNLESS OTHERWISE INDICATED) |
| | COMBINATION STARTER & DISCONNECT SWITCH (FURNISHED BY M.C. UNLESS OTHERWISE INDICATED) |
| | MOTOR |
| B | MOTORIZED BLEACHER MOTOR BY GC. PROVIDE FUSED DISCONNECT AND CONTROL/SAFETY WIRING REQUIRED IN 3/4" CONDUIT |
| C | MOTORIZED COILING DOOR MOTOR BY GC. PROVIDE FUSED DISCONNECT AND CONTROL/SAFETY WIRING REQUIRED IN 3/4" CONDUIT |
| D | MOTORIZED DIVIDER CURTAIN BY GC. PROVIDE LOCAL DISCONNECT AND CONTROL/SAFETY WIRING REQUIRED IN 3/4" CONDUIT |
| F | MOTORIZED FOLDING PARTITION BY GC. PROVIDE FUSED DISCONNECT AND CONTROL/SAFETY WIRING REQUIRED IN 3/4" CONDUIT |
| L | MOTORIZED DOCK LEVELER BY GC. PROVIDE FUSED DISCONNECT AND CONTROL/SAFETY WIRING REQUIRED IN 3/4" CONDUIT |
| M | MOTORIZED MAT HOIST BY GC. PROVIDE FUSED DISCONNECT AND CONTROL/SAFETY WIRING REQUIRED IN 3/4" CONDUIT |
| O | MOTORIZED OVERHEAD DOOR BY GC. PROVIDE LOCAL DISCONNECT/RECEPTACLE AND CONTROL/SAFETY WIRING REQUIRED IN 3/4" CONDUIT |
| P | MOTORIZED PROJECTION SCREEN BY GC. PROVIDE LOCAL DISCONNECT AND CONTROL/SAFETY WIRING REQUIRED IN 3/4" CONDUIT |
| W | MOTORIZED WHEELCHAIR LIFT BY GC. PROVIDE FUSED DISCONNECT, CONTROL/SAFETY WIRING REQUIRED IN 3/4" CONDUIT AND CATEGORY 6 CABLE TO BUILDING DEMARC IN 3/4" CONDUIT |
| | HORIZONTAL SURFACE RACEWAY WITH MATCHING VERTICAL RACEWAY TO ABOVE CEILING FOR DEVICES SHOWN OR INDICATED |
| | RECESSED PANELBOARD |
| | SURFACE PANELBOARD |
| J | JUNCTION BOX |
| C | CONDUCTOR |
| T | TRANSFORMER AS SCHEDULED |
| | METER |

## LIGHTING

| SYMBOL | DESCRIPTION |
|---|---|
| | LUMINAIRE - CEILING MOUNTED |
| | LUMINAIRE - CEILING MOUNTED - NORMAL & EMERGENCY CIRCUITS |
| | LUMINAIRE - CEILING MOUNTED - EMERGENCY ONLY |
| | WALL MOUNTED LUMINAIRE |
| | WALL MOUNTED LUMINAIRE - NORMAL & EMERGENCY CIRCUITS |
| | FLOOD OR SPOT LUMINAIRE |
| | WALL MOUNTED LUMINAIRE - EMERGENCY ONLY |
| | WALL MOUNTED FLOOD OR SPOT LUMINAIRE - EMERGENCY ONLY |
| | REMOTE HEADS - HEADS AS SCHEDULED OR INDICATED |
| | EMERGENCY BATTERY UNIT - HEADS AS SCHEDULED OR INDICATED |
| | CEILING MOUNTED EXIT SIGN - FACES INDICATED BY SHADING |
| | CEILING MOUNTED EXIT SIGN - HEADS AS SCHEDULED OR INDICATED |
| | WALL MOUNTED EXIT SIGN - FACES INDICATED BY SHADING |
| | WALL MOUNTED BATTERY EXIT SIGN - HEADS AS SCHEDULED OR INDICATED |
| | LUMINAIRE |
| | LUMINAIRE - NORMAL & EMERGENCY CIRCUITS |

## LINE VOLTAGE SWITCHING

| SYMBOL | DESCRIPTION |
|---|---|
| S | SINGLE POLE SWITCH |
| S2 | DOUBLE POLE SWITCH |
| S3 | THREE - WAY SWITCH |
| S4 | FOUR - WAY SWITCH |
| SK | KEY OPERATED SINGLE POLE SWITCH |
| S3K | KEY OPERATED THREE - WAY SWITCH |
| S4K | KEY OPERATED FOUR - WAY SWITCH |
| SXP | EXPLOSION PROOF SINGLE POLE SWITCH |
| SD | SINGLE POLE DIMMER SWITCH |
| S3D | THREE - WAY DIMMER SWITCH |
| SON | INDICATOR SWITCH (ILLUMINATED WHEN ON) |
| SOFF | INDICATOR SWITCH (ILLUMINATED WHEN OFF) |
| SM | SINGLE BUTTON OCCUPANCY SENSOR SWITCH |
| SRL | RAISE AND LOWER SWITCH PROVIDED WITH EQUIPMENT UNLESS OTHERWISE NOTED |
| S2M | TWO BUTTON OCCUPANCY SENSOR SWITCH |
| SDT | DIGITAL TIME SWITCH |
| SMD | 0-10V DIMMING SWITCH WITH INTEGRAL OCCUPANCY SENSOR |

## LOW VOLTAGE LIGHTING CONTROLS

| SYMBOL | DESCRIPTION |
|---|---|
| LVS0 | SINGLE BUTTON DIMMER LOW VOLTAGE DIGITAL WALLSTATION |
| LVS1 | SINGLE BUTTON LOW VOLTAGE DIGITAL WALL SWITCH |
| LVS2 | TWO BUTTON LOW VOLTAGE DIGITAL WALL SWITCH |
| LVS3 | THREE BUTTON LOW VOLTAGE DIGITAL WALL SWITCH |
| LVS4 | FOUR BUTTON LOW VOLTAGE DIGITAL WALL SWITCH |
| LVS5 | FIVE BUTTON / RAISE LOWER LOW VOLTAGE DIGITAL WALL SWITCH |
| LVS5W | FIVE BUTTON / RAISE LOWER WIRELESS DIGITAL WALL SWITCH |
| LVS8 | EIGHT BUTTON LOW VOLTAGE DIGITAL WALL SWITCH |
| | LOW VOLTAGE CORNER CEILING OR WALL MOUNTED OCCUPANCY SENSOR |
| W | WIRELESS CORNER CEILING OR WALL MOUNTED OCCUPANCY SENSOR |
| | LOW VOLTAGE CEILING MOUNTED OCCUPANCY SENSOR |
| W | WIRELESS CEILING MOUNTED OCCUPANCY SENSOR |
| H | LOW VOLTAGE CEILING MOUNTED OCCUPANCY SENSOR - EXTENDED HEIGHT LENS |
| HW | WIRELESS CEILING MOUNTED OCCUPANCY SENSOR - EXTENDED HEIGHT LENS |
| | LOW VOLTAGE CEILING MOUNTED DIGITAL DAYLIGHT SENSOR |
| W | WIRELESS CEILING MOUNTED DIGITAL DAYLIGHT SENSOR |
| R1 | DIGITAL LIGHTING CONTROL SYSTEM - 1 RELAY ROOM CONTROLLER AND NETWORK BRIDGE; 0-10V DIMMING. |
| R2 | DIGITAL LIGHTING CONTROL SYSTEM - 2 RELAY ROOM CONTROLLER AND NETWORK BRIDGE; 0-10V DIMMING. |
| R3 | DIGITAL LIGHTING CONTROL SYSTEM - 3 RELAY ROOM CONTROLLER AND NETWORK BRIDGE; 0-10V DIMMING. |
| U1 | DIGITAL LIGHTING CONTROL SYSTEM - 1 RELAY ROOM CONTROLLER AND NETWORK BRIDGE; UNIVERSAL DIMMING. |
| U2 | DIGITAL LIGHTING CONTROL SYSTEM - 2 RELAY ROOM CONTROLLER AND NETWORK BRIDGE; UNIVERSAL DIMMING. |
| PL | DIGITAL PLUG LOAD ROOM CONTROLLER |
| PC | DIGITAL PARTITION CONTROL WITH SINGLE POLE SWITCH FOR CONTROL |
| ER | EMERGENCY LIGHTING CONTROL DEVICE |
| BR | BORDER ROUTER WITH POWER BOOSTER |
| | EXTERIOR DAYLIGHT SENSORS WITH INPUT MODULE |
| LM | LIGHTING CONTROL SYSTEM - SEGMENT MANAGER & ASSOCIATED EQUIPMENT WITH ENCLOSURE AND DATA CONNECTION |
| LS | LIGHTING CONTROL SYSTEM - NETWORK SWITCH WITH ENCLOSURE |

## SITE LIGHTING

| SYMBOL | DESCRIPTION |
|---|---|
| | SINGLE LUMINAIRE ON POLE |
| | DOUBLE LUMINAIRE ON POLE |
| | DOUBLE LUMINAIRE ON POLE |
| | TRIPLE LUMINAIRE ON POLE |
| | QUAD LUMINAIRE ON POLE |
| | BOLLARD (OR SMALL LUMINAIRE FOR WALKWAY) |
| | FLOOD LIGHT - MOUNT AS REQUIRED |

## FIRE ALARM

| SYMBOL | DESCRIPTION |
|---|---|
| S | PHOTOELECTRIC SMOKE DETECTOR - CEILING MOUNTED |
| H | HEAT DETECTOR |
| HH | HIGH HEAT DETECTOR - CEILING MOUNTED |
| D | DUCT SMOKE DETECTOR - WITH REMOTE TEST SWITCH |
| I | IONIZATION SMOKE DETECTOR - CEILING MOUNTED |
| C | CARBON DIOXIDE DETECTOR |
| B | BEAM DETECTOR |
| M | CARBON MONOXIDE DETECTOR |
| 2 | SMOKE/CARBON MONOXIDE DETECTOR |
| F F | CEILING MOUNTED FIRE ALARM AUDIO DEVICE (SHADED TRIANGLE INDICATES LOW FREQUENCY 520Hz) |
| F | CEILING MOUNTED FIRE ALARM VISUAL DEVICE |
| F F | CEILING MOUNTED FIRE ALARM AUDIO/VISUAL DEVICE (SHADED TRIANGLE INDICATES LOW FREQUENCY 520Hz) |
| F F | WALL MOUNTED FIRE ALARM AUDIO DEVICE (SHADED TRIANGLE INDICATES LOW FREQUENCY 520Hz) |
| F | WALL MOUNTED FIRE ALARM VISUAL DEVICE |
| F F | WALL MOUNTED FIRE AUDIO/VISUAL DEVICE (SHADED TRIANGLE INDICATES LOW FREQUENCY 520Hz) |
| F | WALL MOUNTED MANUAL PULL STATION |
| FR | RELAY AND/OR MONITORING DEVICE AS REQUIRED BY THE APPLICATION REQUIREMENTS |
| KB | KNOX BOX |
| DH | MAGNETIC DOOR HOLDER |
| PS | SPRINKLER PRESSURE SWITCH |
| FS | SPRINKLER FLOW SWITCH |
| TS | SPRINKLER TAMPER SWITCH |
| SD | SMOKE DAMPER |
| WG | WIRE GUARD |
| PC | PROTECTIVE COVER |
| WP | WEATHERPROOF |
| ARAP | AREA OF RESCUE ASSISTANCE PANEL |
| ARAS | AREA OF RESCUE ASSISTANCE REMOTE STATION |
| FACP | FIRE ALARM CONTROL PANEL |
| FASEP | FIRE ALARM SIGNAL EXTENDER PANEL |
| FAAP | FIRE ALARM LCD ANNUNCIATOR |
| FAGP | FIRE ALARM GRAPHIC / LCD ANNUNCIATOR |
| FACC | FIRE ALARM COMMAND CENTER |
| FARD | FIRE ALARM RECORD DOCUMENT BOX |
| FMA | FIRE ALARM ADDRESSABLE MODULE DEVICE AND ASSOCIATED WIRING FOR MUTING THE AUDIO SYSTEM |
| FMB | FIRE ALARM ADDRESSABLE MODULE DEVICE AND ASSOCIATED WIRING FOR USE WITH THE MECHANICAL EQUIPMENT BUILDING MANAGMENT SYSTEM (BMS) |
| FMC | FIRE ALARM ADDRESSABLE MODULE DEVICE AND ASSOCIATED WIRING FOR MONITORING STAND-ALONE CLEAN AGENT FIRE SUPPRESSION SYSTEM |
| FMD | FIRE ALARM ADDRESSABLE MODULE DEVICE AND ASSOCIATED WIRING FOR MONITORING STAND-ALONE FIRE SUPPRESSION SYSTEMS USED IN DUST COLLECTION SYSTEM |
| FME | FIRE ALARM ADDRESSABLE MODULE DEVICES AND ASSOCIATED WIRING FOR MONITORING AND CONTROLLING ELEVATOR CONTROL |
| FMF | FIRE ALARM ADDRESSABLE MODULE DEVICES AND ASSOCIATED WIRING FOR MONITORING THE FIRE PUMP CONTROLLER/ATS |
| FMG | FIRE ALARM ADDRESSABLE MODULE DEVICES AND ASSOCIATED WIRNG FOR MONITORING AND CONTROLLING THE MOTORIZED SECURITY GATE OR FIRE DOOR |
| FMH | FIRE ALARM ADDRESSABLE DEVICE AND ASSOCIATED WIRING FOR USE WITH THE MAGNETIC DOOR HOLD OPEN RELEASE |
| FMI | FIRE ALARM ADDRESSABLE MODULE DEVICES AND ASSOCIATED WIRING FOR INPUT INTERFACE TO THE BUILDING INTRUSION SYSTEM AND/OR CARD ACCESS SYSTEM |
| FMK | FIRE ALARM ADDRESSABLE MODULE DEVICES AND ASSOCIATED WIRING FOR MONITORING KITCHEN EXHAUST HOOD FIRE SUPPRESSION SYSTEM AND CONTROLLING THE ASSOCIATED SUPPLY/EXHAUST FANS, GAS AND ELECTRICAL EQUIPMENT LOCATED BELOW THE KITCHEN HOOD |
| FML | FIRE ALARM ADDRESSABLE MODULE DEVICES AND ASSOCIATED WIRING FOR INTERFACE WITH THE LIGHTING CONTROL SYSTEM PANEL TO TURN ON DESIGNATED LIGHTING CIRCUITS. |
| FMP | FIRE ALARM ADDRESSABLE MODULE DEVICES AND ASSOCIATED WIRING FOR MONITORING AND CONTROLLING THE ELEVATOR POWER CONTROL MODULE/DISCONNECT |
| FMS | FIRE ALARM ADDRESSABLE DEVICE AND ASSOCIATED WIRING FOR MONITORING AND CONTROLLING A FIRE/SMOKE DAMPER |
| FRX | FIRE ALARM ADDRESSABLE MODULE DEVICE AND ASSOCIATED WIRING FOR MISC. EQUIPMENT |

### GENERAL ELECTRICAL NOTES:

1. THE ENTIRE ELECTRICAL INSTALLATION SHALL COMPLY WITH THE NEC AND ALL LOCAL, STATE AND NATIONAL CODES.
2. THE ELECTRICAL CONTRACTOR SHALL COORDINATE THEIR WORK WITH ALL OTHER TRADES.
3. THE ELECTRICAL CONTRACTOR SHALL COORDINATE THEIR WORK WITH THE ARCHITECTURAL PHASING PLANS INCLUDING ASBESTOS ABATEMENT PLANS.
4. THE ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR, BUT NOT LIMITED TO: ALL TEMPORARY AND PERMANENT CROSSOVER CONNECTIONS, RELOCATION OF SYSTEM EQUIPMENT AND REPROGRAMMING OF THE SYSTEM EQUIPMENT TO THE NEW AND EXISTING SYSTEMS THAT THE ELECTRICAL CONTRACTOR WILL NEED TO PROVIDE DURING THE RENOVATION/CONSTRUCTION PROJECT. THESE SYSTEMS INCLUDE BUT NOT LIMITED TO THE FOLLOWING:
   A. NORMAL POWER/LIGHTING CIRCUITS.
   B. EMERGENCY POWER/LIGHTING CIRCUITS.
   C. FIRE ALARM SYSTEMS
   D. SECURITY SYSTEMS
   E. CAMERA SYSTEMS
   F. INTERCOM SYSTEMS
   G. MASTER CLOCK SYSTEMS
   H. SOUND SYSTEMS
   I. TELEPHONE SYSTEMS
   J. DATA SYSTEMS
5. SHUTDOWNS OF ANY OF THE SYSTEMS LISTED ABOVE MUST BE COORDINATED WITH AND APPROVED BY THE ARCHITECT, OWNER AND CONSTRUCTION MANAGER.
6. THERE WILL BE MULTIPLE LABOR AND INDUSTRY, TOWNSHIP, OWNER, ARCHITECT AND ENGINEER INSPECTIONS THAT WILL NEED TO BE SATISFIED BY THE ELECTRICAL CONTRACTOR.
7. THE ELECTRICAL CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIALS AND EQUIPMENT, WHETHER SPECIFIED OR NOT, TO PROVIDE A COMPLETE AND OPERATIONAL SYSTEM.
8. THE ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR ALL CONDUIT AND CABLE TRAY PENETRATIONS THROUGH CHASES, WALLS OR FLOORS WHICH ARE FIRE-RATED. THE ELECTRICAL CONTRACTOR SHALL UNDER THE DIRECTION OF THE ARCHITECT, PROPERLY SEAL ALL PENETRATIONS TO MAINTAIN FIRE PROTECTION RATING. REFER TO THE ARCHITECTURAL DRAWINGS FOR FIRE RATED PARTITIONS.
9. NOT ALL SYMBOLS SHOWN ON THIS DRAWING ARE USED ON THIS PROJECT.
10. ONE OR MORE ATTRIBUTES MAY BE ADDED TO A BASIC SYMBOL TO SPECIFY ADDITIONAL REQUIREMENTS FOR THE DEVICE DESCRIBED BY THE BASIC SYMBOL.
11. REFER TO SPECIFICATIONS FOR PANELBOARD AND LUMINAIRE SCHEDULES.


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School District of Lancaster
*Together We Can!*


CONSULTANT:
MOORE ENGINEERING COMPANY
3637 Columbia Avenue, Lancaster PA 17603
P: 717.285.3141, MooreEngineering.com


RENOVATIONS
J.P. MCCASKEY STADIUM
PROJECTS
SCHOOL DISTRICT OF LANCASTER
445 N RESERVOIR ST, LANCASTER, PA. 17602

ISSUE DATES
DATE: 01/08/2025 DESCRIPTION: BID DOCUMENTS

PROJ # : 24-SDL-03 DRAWN BY : A. NOLT

SHEET TITLE:

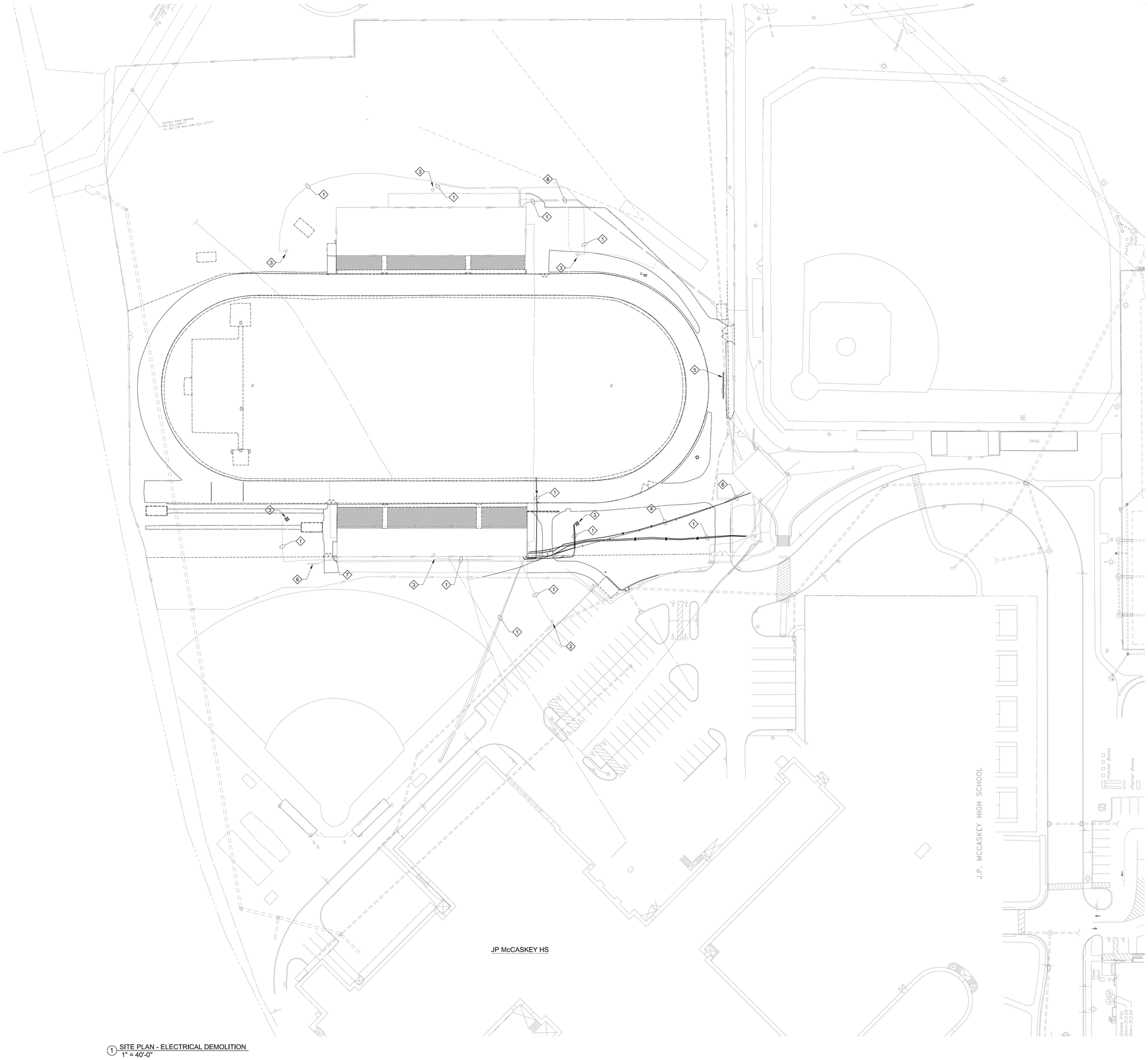
**ELECTRICAL SYMBOLS**

SHEET NUMBER:

**E0.1**

**BID DOCUMENTS**

1/3/2025 3:50:24 PM




1 SITE PLAN - ELECTRICAL DEMOLITION
1" = 40'-0"

## GENERAL NOTES:

1. PROVIDE THE SERVICES OF A QUALIFIED CONTRACTOR TO IDENTIFY ALL EXISTING UNDERGROUND COMMUNICATION AND ELECTRIC LINES LOCATED IN ALL CONSTRUCTION AND NEW DUCTBANK LOCATIONS. ALL IDENTIFIED AREAS SHALL BE DOCUMENTED ON THE AS-BUILT DRAWINGS.
2. EXERCISE EXTREME CAUTION WHEN EXCAVATING AROUND EXISTING MEDIUM VOLTAGE CABLES AND RACEWAYS.
3. ALL EXISTING DUCTBANKS ARE SHOWN FOR REFERENCE ONLY. EXACT LOCATIONS TO BE DETERMINED PER GENERAL NOTE 1.
4. PATCH AND RESTORE TO MATCH EXISTING CONDITIONS WHERE EXCAVATION DISTURBS EXISTING-TO-REMAIN SURFACES.
5. REMOVE ALL ELECTRICAL CONDUCTORS/CONDUIT FOR ITEMS TO BE DEMOLISHED.
6. COORDINATE ALL SITE WORK WITH PHASING PLANS.
7. THE EC SHALL BE RESPONSIBLE FOR EXCAVATION, TRENCHING, CONCRETE ENCASEMENT AND BACKFILL FOR ALL UNDERGROUND CONDUITS/DUCTBANKS AND ELECTRICAL EQUIPMENT. THE GC SHALL BE RESPONSIBLE TO RESTORE THE FINISHED SURFACE. IN CONCRETE/PAVED AREAS, THE GC SHALL DEMOLISH THE EXISTING SURFACE (ASPHALT PAVING OR CONCRETE) AND STONE SUBBASE AND RESTORE THE FINISHED SURFACE AND STONE SUBBASE WITH STANDARD DUTY PAVING. THE EC SHALL BACKFILL TO THE LIMITS OF SUBGRADE FOR THE STONE BASE OF PAVING.

## (#) DRAWING NOTES:

1. REMOVE UNDERGROUND WIRING AND CONDUIT.
2. REMOVE EXISTING POLE MOUNTED LIGHTING FIXTURE, POLE, POLE BASE AND ASSOCIATED WIRING/CONDUIT.
3. EXISTING SPORTS FIELD LIGHTING FIXTURES TO BE DEMOLISHED BY OWNER'S VENDOR. ASSOCIATED POLE AND POLE BASE TO REMAIN. REMOVE ASSOCIATED WIRING/CONDUIT AS INDICATED.
4. REMOVE UNDERGROUND WIRING/CONDUIT TO AREA OUTSIDE OF CONSTRUCTION DISTURBANCE AND MAINTAIN FOR RECONNECTION AS INDICATED ON E1.2.
5. DISCONNECT FOOTBALL SCOREBOARD TO BE DEMOLISHED AND REMOVE ASSOCIATED WIRING/CONDUIT. REMOVE RECEPTACLES AND FLOODLIGHT FIXTURES MOUNTED TO SCOREBOARD AND ASSOCIATED WIRING/CONDUIT.
6. EXISTING SOFTBALL SCOREBOARD TO REMAIN.
7. DISCONNECT BRANCH CIRCUIT SERVING EXISTING SOFTBALL SCOREBOARD AND REFEED FROM NEW PANELBOARD AS INDICATED ON NEW WORK PLANS.
8. EXISTING UNDERGROUND WIRING/CONDUIT TO REMAIN.
9. EXISTING LIGHTING FIXTURE TO REMAIN.

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RENOVATIONS
# J.P. MCCASKEY STADIUM PROJECTS
SCHOOL DISTRICT OF LANCASTER
445 N RESERVOIR ST, LANCASTER, PA 17602

ISSUE DATES
DATE: 01/08/2025
DESCRIPTION: BID DOCUMENTS

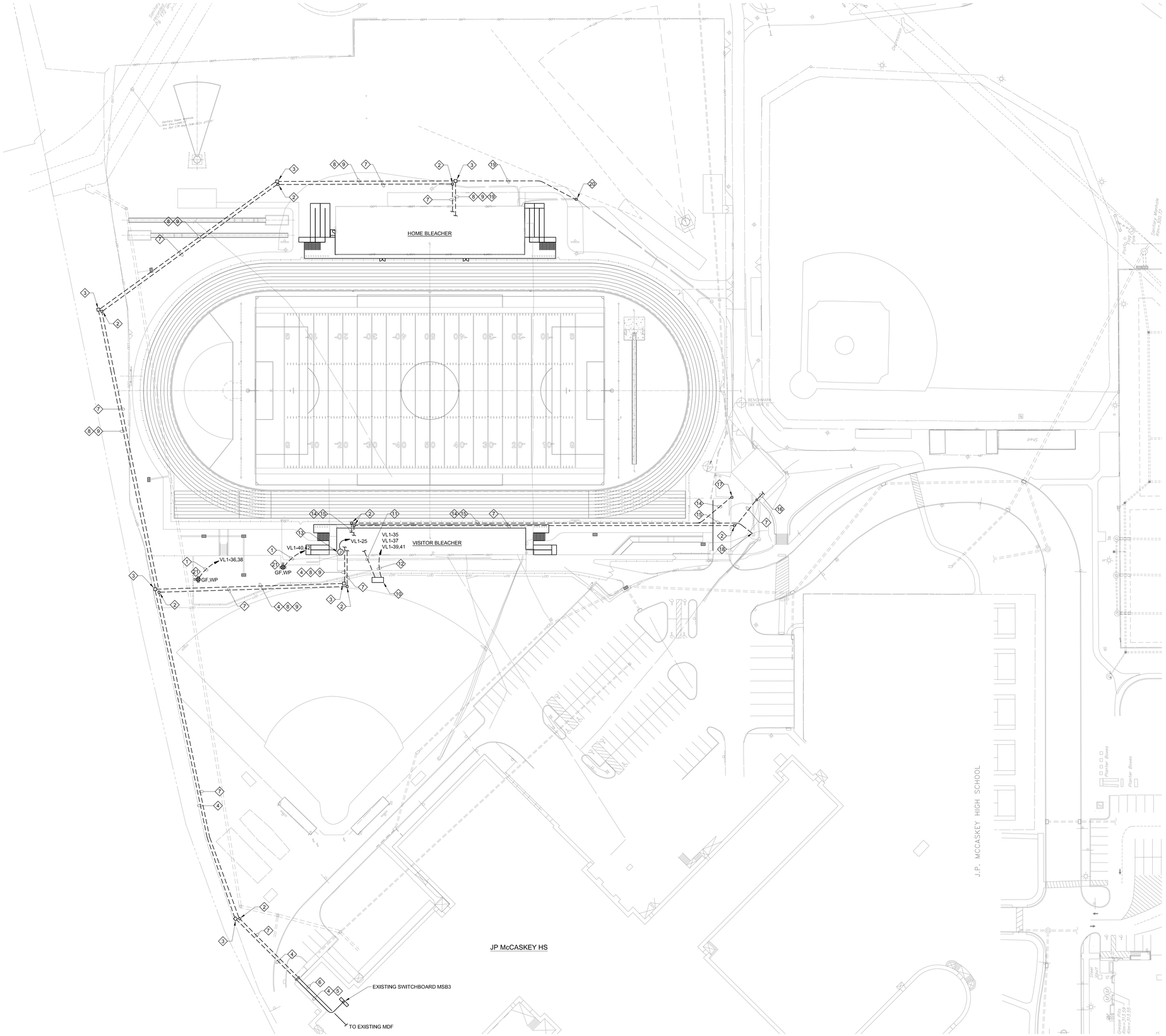
PROJ #: 24-SDL-03 DRAWN BY: A. NOLT

SHEET TITLE:
**SITE PLAN - ELECTRICAL DEMOLITION**

SHEET NUMBER:
**E1.1**

**BID DOCUMENTS**

11/18/2024 10:07:50 AM




1 SITE PLAN - ELECTRICAL
1" = 40'-0"

## GENERAL NOTES:

1. PROVIDE THE SERVICES OF A QUALIFIED CONTRACTOR TO IDENTIFY ALL EXISTING UNDERGROUND COMMUNICATION AND ELECTRIC LINES LOCATED IN ALL CONSTRUCTION AND NEW DUCTBANK LOCATIONS. ALL IDENTIFIED AREAS SHALL BE DOCUMENTED ON THE AS-BUILT DRAWINGS.
2. ALL EXISTING DUCTBANKS ARE SHOWN FOR REFERENCE ONLY. EXACT LOCATIONS TO BE DETERMINED PER GENERAL NOTE 1.
3. PATCH AND RESTORE TO MATCH EXISTING CONDITIONS WHERE EXCAVATION DISTURBS EXISTING-TO-REMAIN SURFACES.
4. COORDINATE MANHOLE AND HANDHOLE LOCATIONS WITH ARCHITECT, OWNER, NEW WORK PLANS AND EXISTING CONDITIONS.
5. PROVIDE PULLING TAPE IN ALL UNUSED CONDUITS.
6. UNLESS OTHERWISE NOTED, ALL UNDERGROUND CONDUITS SHALL BE INSTALLED SIMILAR TO DETAILS ON DRAWING E8.1.

## # DRAWING NOTES:

1. 3#8 + 1#8 GND IN 1" CONDUIT.
2. 24" x 24" x 24" DEEP HANDHOLE.
3. 36" x 36" x 30" DEEP HANDHOLE.
4. PANEL DPV FEEDER PER POWER RISER DIAGRAM.
5. ROUTE CONDUIT EXPOSED OVERHEAD IN EXISTING BOILER AND ELECTRICAL ROOMS.
6. FIBER OPTIC CABLING PER TELECOMMUNICATIONS RISER DIAGRAM. EXTEND TO EXISTING MDF XXXX. COORDINATE FINAL ROUTING THROUGH BUILDING WITH OWNER'S IT DEPARTMENT. APPROXIMATE LENGTH OF CABLING RUN WITHIN BUILDING IS XXXX'.
7. 4" CONDUIT WITH (3) 1-1/4" INNERDUCTS AND FIBER OPTIC CABLING PER TELECOMMUNCATIONS RISER DIAGRAM.
8. PANEL HH1 FEEDER PER POWER RISER DIAGRAM.
9. PANEL LS-HH1 FEEDER PER POWER RISER DIAGRAM.
10. PAD MOUNTED GENERATOR G1. SEE POWER RISER DIAGRAM FOR MORE INFORMATION. PROVIDE GENERATOR PAD PER DETAIL XE8.1
11. PANEL LS-VH1 FEEDER (VIA ATS-LS) PER POWER RISER DIAGRAM.
12. PROVIDE 7#10 + 1#10 GND IN 2" CONDUIT PER DETAIL 1/E8.1 FOR GENERATOR BATTERY CHARGER, BATTERY HEATER, AND BLOCK HEATER CIRCUITS.
13. REWORK/EXTEND EXISTING SOFTBALL SCOREBOARD WIRING/CONDUIT AS REQUIRED AND CONNECT TO NEW PANEL.
14. BASEBALL (1ST BASE DUGOUT) PANEL FEEDER PER POWER RISER DIAGRAM.
15. CHRYST PAVILION PANEL CL1 (VIA T-CL1) PER POWER RISER DIAGRAM.
16. FIBER OPTIC CABLING PER TELECOMMUNICATIONS RISER DIAGRAM. EXTEND TO EXISTING IDF RACK IN SECOND FLOOR BASEBALL PRESS BOX.
17. INTERCEPT EXISTING CHRYST PAVILION PANEL CL1 (VIA T-CL1) FEEDER AND PROVIDE 24" x 24" x24" DEEP HANDHOLE TO SPLICE EXISTING FEEDER CABLING WITH NEW AS INDICATED ON POWER RISER DIAGRAM.
18. INTERCEPT EXISTING BASEBALL (1ST BASE DUGOUT) PANEL FEEDER IN EXISTING MANHOLE AND SPLICE EXISTING FEEDER CABLING WITH NEW AS INDICATED ON POWER RISER DIAGRAM.
19. BASEBALL (3RD BASE DUGOUT) PANEL FEEDER PER POWER RISER DIAGRAM.
20. INTERCEPT EXISTING CHRYST PAVILION PANEL CL1 (VIA T-CL1) FEEDER AND PROVIDE 24" x 24" x24" DEEP HANDHOLE TO SPLICE EXISTING FEEDER CABLING WITH NEW AS INDICATED ON POWER RISER DIAGRAM.
21. MOUNT RECEPTACLE 1'-6" AFG ON POLE MOUNTED LIGHTING FIXTURE POLE BASE. SEE E1.3 FOR POLE LOCATION.

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RENOVATIONS
J.P. MCCASKEY STADIUM
PROJECTS
SCHOOL DISTRICT OF LANCASTER
445 N RESERVOIR ST, LANCASTER, PA 17602

| ISSUE DATES | DESCRIPTION: |
|---|---|
| DATE: | |
| 01/08/2025 | BID DOCUMENTS |

PROJ #: 24-SDL-03 DRAWN BY: A. NOLT

SHEET TITLE:

**SITE PLAN - ELECTRICAL**

SHEET NUMBER:

**E1.2**

**BID DOCUMENTS**

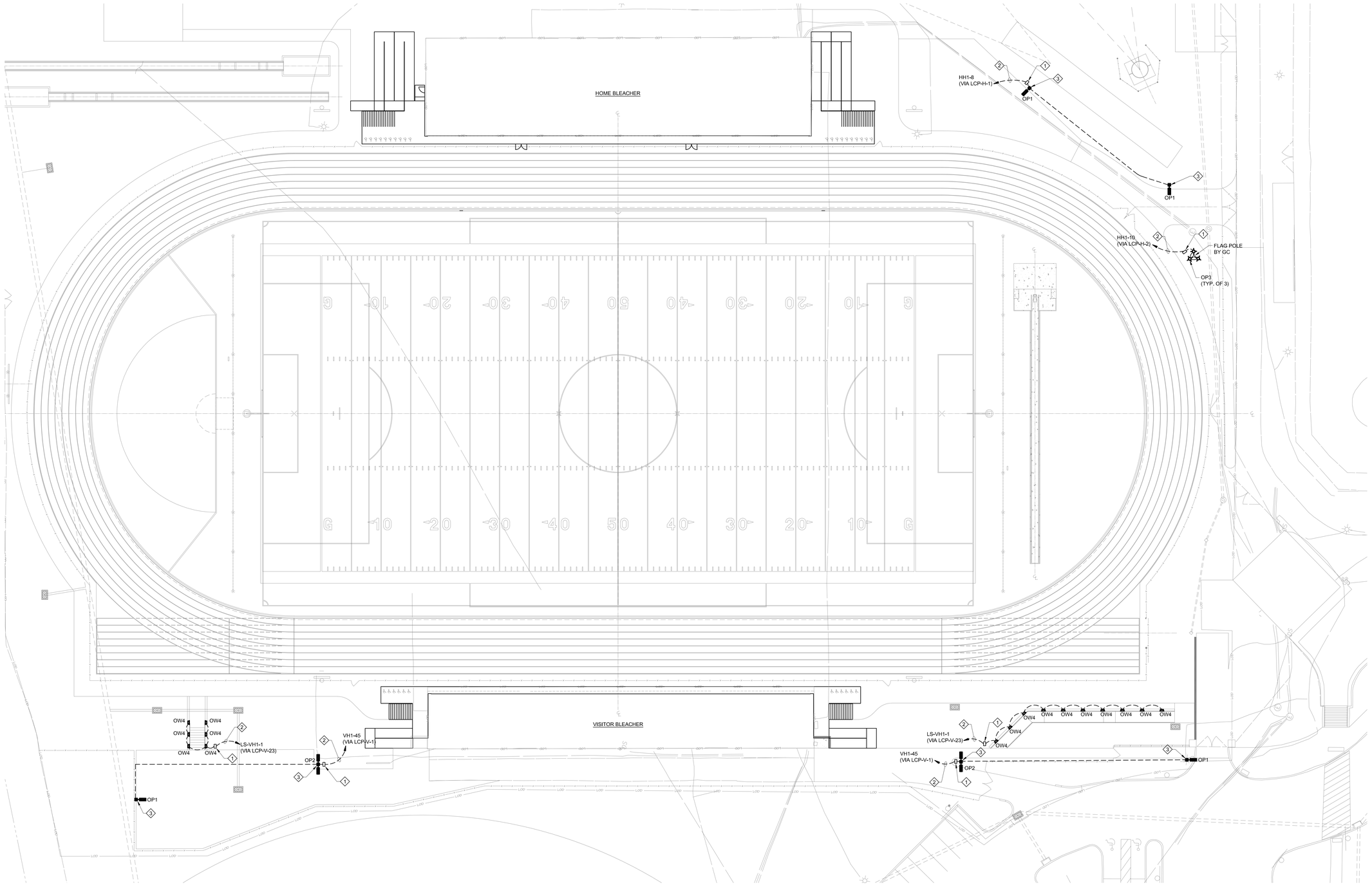
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## GENERAL NOTES:

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3. PATCH AND RESTORE TO MATCH EXISTING CONDITIONS WHERE EXCAVATION DISTURBS EXISTING-TO-REMAIN SURFACES.
4. COORDINATE MANHOLE AND HANDHOLE LOCATIONS WITH ARCHITECT, OWNER, NEW WORK PLANS AND EXISTING CONDITIONS.
5. PROVIDE PULLING TAPE IN ALL UNUSED CONDUITS.
6. UNLESS OTHERWISE NOTED, ALL UNDERGROUND CONDUITS SHALL BE INSTALLED SIMILAR TO DETAILS ON DRAWING E8.1.

## (#) DRAWING NOTES:

1. 13" x 24" x 24" DEEP HANDHOLE.
2. 2#10 + 1#10 GND IN 1" CONDUIT.
3. PROVIDE POLE BASE PER DETAIL 6/E8.1.




1 SITE PLAN - LIGHTING
1" = 20'-0"

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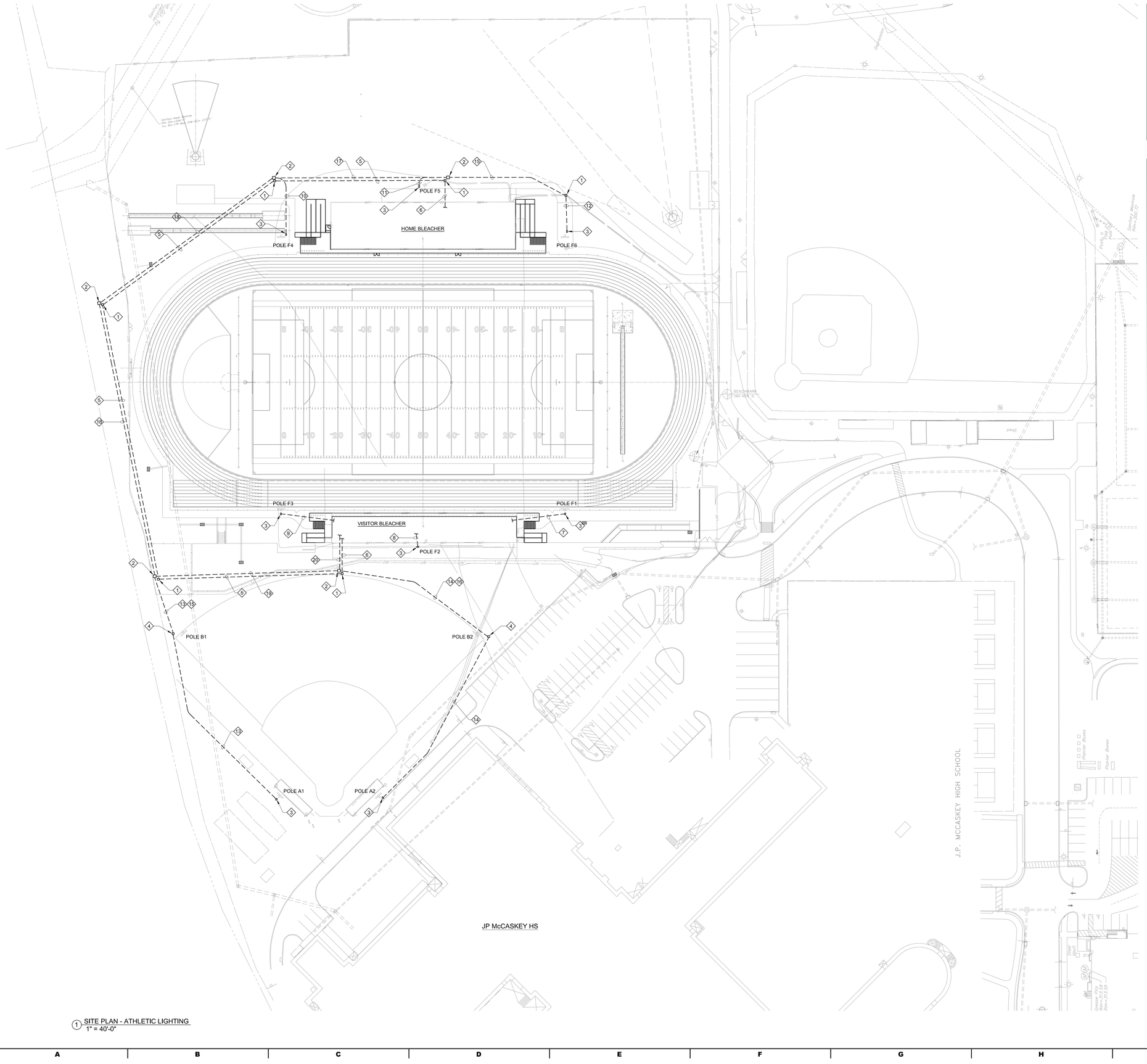
ISSUE DATES
DATE: 01/08/2025
DESCRIPTION: BID DOCUMENTS

PROJ #: 24-SDL-03
DRAWN BY: A. NOLT

SHEET TITLE:
SITE PLAN - LIGHTING

SHEET NUMBER:
E1.3

BID DOCUMENTS




## GENERAL NOTES:

1. PROVIDE THE SERVICES OF A QUALIFIED CONTRACTOR TO IDENTIFY ALL EXISTING UNDERGROUND COMMUNICATION AND ELECTRIC LINES LOCATED IN ALL CONSTRUCTION AND NEW DUCTBANK LOCATIONS. ALL IDENTIFIED AREAS SHALL BE DOCUMENTED ON THE AS-BUILT DRAWINGS.
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5. PROVIDE PULLING TAPE IN ALL UNUSED CONDUITS.
6. UNLESS OTHERWISE NOTED, ALL UNDERGROUND CONDUITS SHALL BE INSTALLED SIMILAR TO DETAILS ON DRAWING E8.1.

## (#) DRAWING NOTES:

1. 24" x 24" x 24" DEEP HANDHOLE AS INDICATED ON E1.2.
2. 36" x 36" x 24" DEEP HANDHOLE AS INDICATED ON E1.2.
3. 13" x 24" x 24" DEEP HANDHOLE WITH 2" CONDUIT FROM HANDHOLE TO POLE FOR LIGHTING WIRING.
4. 24" x 24" x 24" DEEP HANDHOLE WITH 2" CONDUIT FROM HANDHOLE TO POLE FOR LIGHTING WIRING.
5. 1-1/4" CONDUIT WITH MUSCO LIGHTING CONTROL CABLING.
6. 1-1/4" CONDUIT WITH MUSCO LIGHTING CONTROL CABLING + SPARE 1-1/4" CONDUIT.
7. 3#8 + 3#10 + 1#8 GND IN 2" CONDUIT (POLE F1 FOOTBALL, COLOR).
8. 3#8 + 3#10 + 1#8 GND IN 2" CONDUIT (POLE F2 FOOTBALL, BLEACHER).
9. 3#8 + 6#10 + 1#8 GND IN 2" CONDUIT (POLE F3 FOOTBALL, BLEACHER, COLOR).
10. 3#4 + 3#8 + 6#10 + 1#4 GND IN 2" CONDUIT (POLE F4 FOOTBALL, PRACTICE, BLEACHER, COLOR).
11. 3#4 + 3#8 + 3#10 + 1#4 GND IN 2" CONDUIT (POLE F5 FOOTBALL, PRACTICE, BLEACHER).
12. 3#4 + 3#10 + 1#4 GND IN 2" CONDUIT (POLE F6 FOOTBALL, COLOR).
13. 6#10 + 1#10 GND IN 2" CONDUIT (POLE A1 SOFTBALL, COLOR).
14. 6#10 + 1#10 GND IN 2" CONDUIT (POLE A2 SOFTBALL, COLOR).
15. 6#10 + 1#10 GND IN 2" CONDUIT (POLE B1 SOFTBALL, COLOR).
16. 6#10 + 1#10 GND IN 2" CONDUIT (POLE B2 SOFTBALL, COLOR).
17. 3#4 + 3#8 + 3#10 + 1#4 GND IN 2" CONDUIT (POLE F5 FOOTBALL, PRACTICE, BLEACHER) + 3#4 + 3#10 + 1#4 GND IN 2" CONDUIT (POLE F6 FOOTBALL, COLOR) + SPARE 2" CONDUIT.
18. 3#4 + 3#8 + 6#10 + 1#4 GND IN 2" CONDUIT (POLE F4 FOOTBALL, PRACTICE, BLEACHER, COLOR) + 3#4 + 3#8 + 3#10 + 1#4 GND IN 2" CONDUIT (POLE F5 FOOTBALL, PRACTICE, BLEACHER) + 3#4 + 3#10 + 1#4 GND IN 2" CONDUIT (POLE F6 FOOTBALL, COLOR) + SPARE 2" CONDUIT.
19. 3#4 + 3#8 + 6#10 + 1#4 GND IN 2" CONDUIT (POLE F4 FOOTBALL, PRACTICE, BLEACHER, COLOR) + 3#4 + 3#8 + 3#10 + 1#4 GND IN 2" CONDUIT (POLE F5 FOOTBALL, PRACTICE, BLEACHER) + 3#4 + 3#10 + 1#4 GND IN 2" CONDUIT (POLE F6 FOOTBALL, COLOR) + 6#10 + 1#10 GND IN 2" CONDUIT (POLE A1 SOFTBALL, COLOR) + 6#10 + 1#10 GND IN 2" CONDUIT (POLE B1 SOFTBALL, COLOR) + (2) SPARE 2" CONDUITS.
20. 3#4 + 3#8 + 6#10 + 1#4 GND IN 2" CONDUIT (POLE F4 FOOTBALL, PRACTICE, BLEACHER, COLOR) + 3#4 + 3#8 + 3#10 + 1#4 GND IN 2" CONDUIT (POLE F5 FOOTBALL, PRACTICE, BLEACHER) + 3#4 + 3#10 + 1#4 GND IN 2" CONDUIT (POLE F6 FOOTBALL, COLOR) + 6#10 + 1#10 GND IN 2" CONDUIT (POLE A1 SOFTBALL, COLOR) + 6#10 + 1#10 GND IN 2" CONDUIT (POLE A2 SOFTBALL, COLOR) + 6#10 + 1#10 GND IN 2" CONDUIT (POLE B1 SOFTBALL, COLOR) + 6#10 + 1#10 GND IN 2" CONDUIT (POLE B2 SOFTBALL, COLOR) + (2) SPARE 2" CONDUITS.

1 SITE PLAN - ATHLETIC LIGHTING
1" = 40'-0"

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J.P. MCCASKEY STADIUM
PROJECTS
SCHOOL DISTRICT OF LANCASTER
445 N RESERVOIR ST, LANCASTER, PA 17602

ISSUE DATES
DATE: 01/08/2025
DESCRIPTION: BID DOCUMENTS

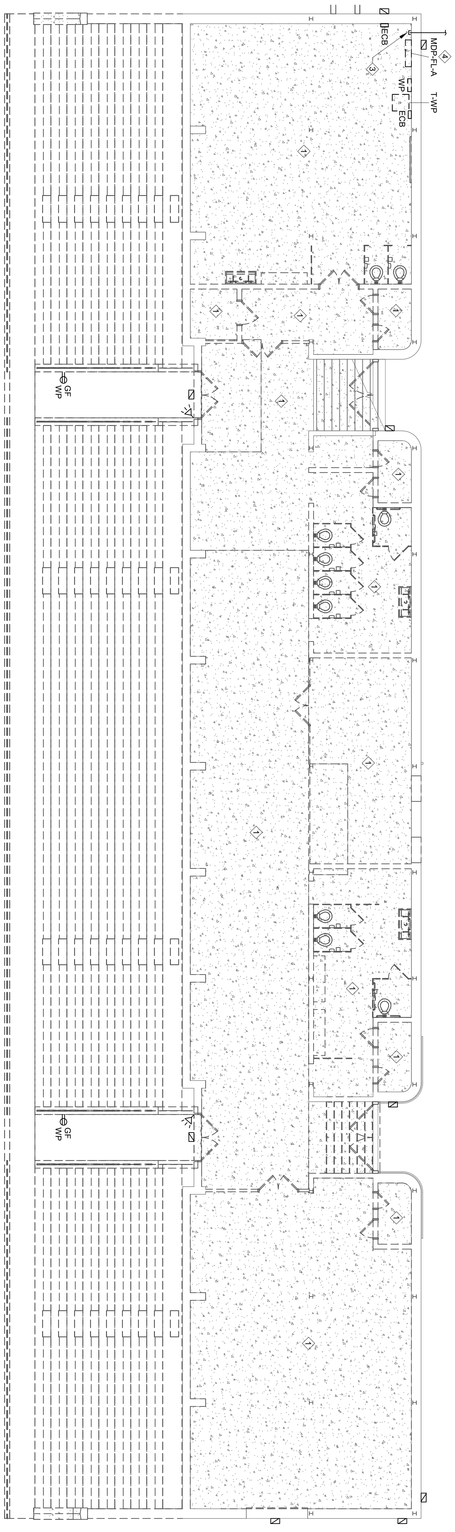
PROJ #: 24-SDL-03 DRAWN BY: A. NOLT

SHEET TITLE:
**SITE PLAN - ATHLETIC LIGHTING**

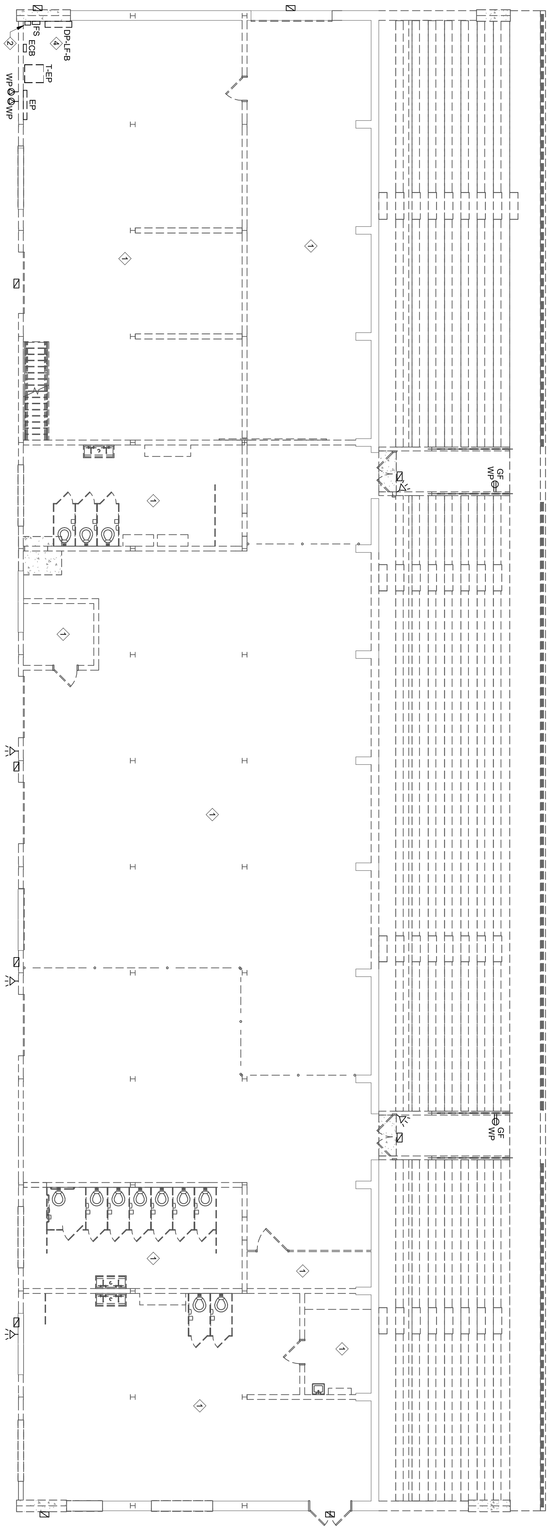
SHEET NUMBER:
**E1.4**

**BID DOCUMENTS**

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1 VISITOR FIRST FLOOR PLAN - ELECTRICAL DEMOLITION
1/8" = 1'-0"




2 HOME FIRST FLOOR PLAN - ELECTRICAL DEMOLITION
1/8" = 1'-0"

**DRAWING NOTES:**

1. UNLESS OTHERWISE NOTED, REMOVE ALL ELECTRICAL DEVICES, EQUIPMENT, AND WIRING/RACEWAY IN THIS AREA.
2. REMOVE TELECOM ENCLOSURE AND TURN OVER TO OWNER.
3. REMOVE ABANDONED TELEPHONE SERVICE CABLING AND ASSOCIATED CONDUIT.
4. REMOVE DISTRIBUTION PANEL. STORE FOR POSSIBLE TEMPORARY USE IN EVENT THAT NEW DISTRIBUTION PANELS ARE NOT AVAILABLE WHEN REQUIRED FOR CONSTRUCTION SCHEDULE.

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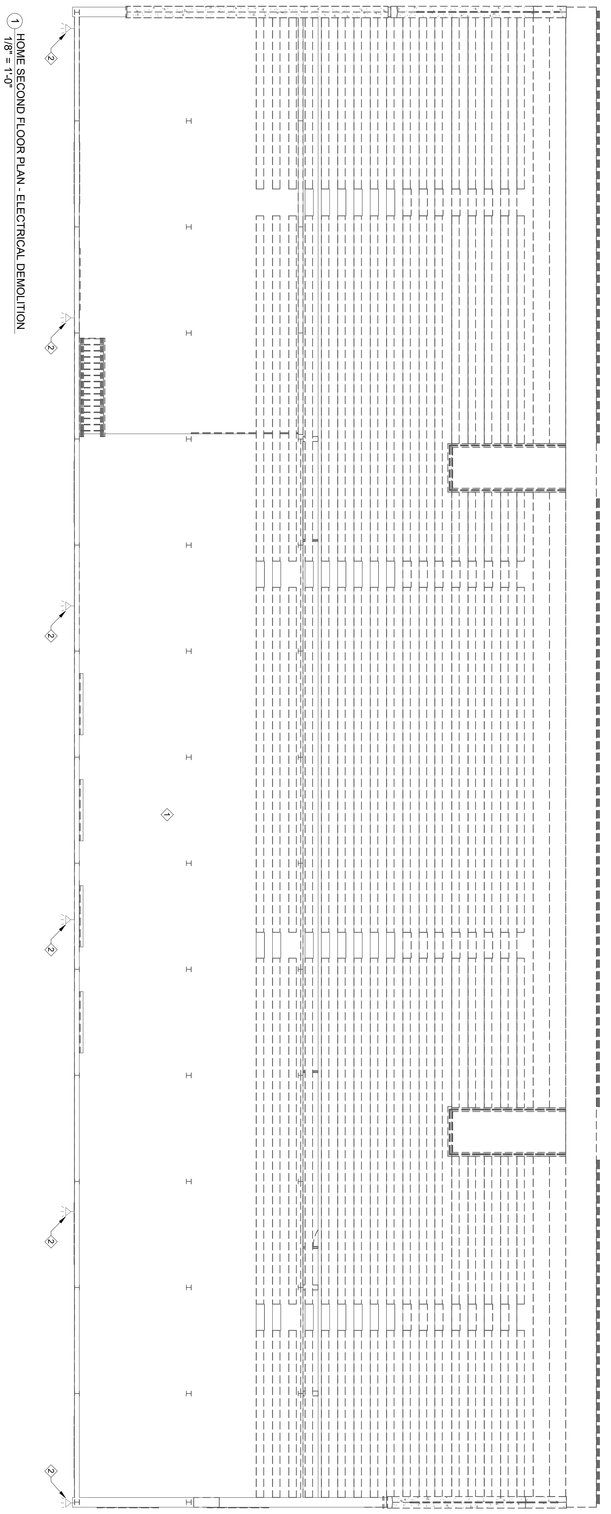

PROJ #: 24-SDL-03
DRAWN BY: A. NOLT

SHEET TITLE:
**FIRST FLOOR PLANS - ELECTRICAL DEMOLITION**

SHEET NUMBER:
**E2.1**

**BID DOCUMENTS**

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1 HOME SECOND FLOOR PLAN - ELECTRICAL DEMOLITION
1/8" = 1'-0"

DRAWING NOTES:

1. UNLESS OTHERWISE NOTED, REMOVE ALL ELECTRICAL DEVICES, EQUIPMENT, AND WIRING/RACEWAY IN THIS AREA.
2. EXISTING BUILDING MOUNTED FLOODLIGHT TO REMAIN. REVISE BRANCH CIRCUIT WIRING/CONDUIT AS INDICATED ON NEW WORK PLANS.

BID DOCUMENTS

SHEET NUMBER: E2.2

SHEET TITLE: SECOND FLOOR PLAN - ELECTRICAL DEMOLITION

PROJ # : 24-SDL-03 DRAWN BY : A. NOLT

ISSUE DATES

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| 01/08/2025 | BID DOCUMENTS |

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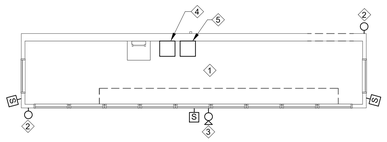
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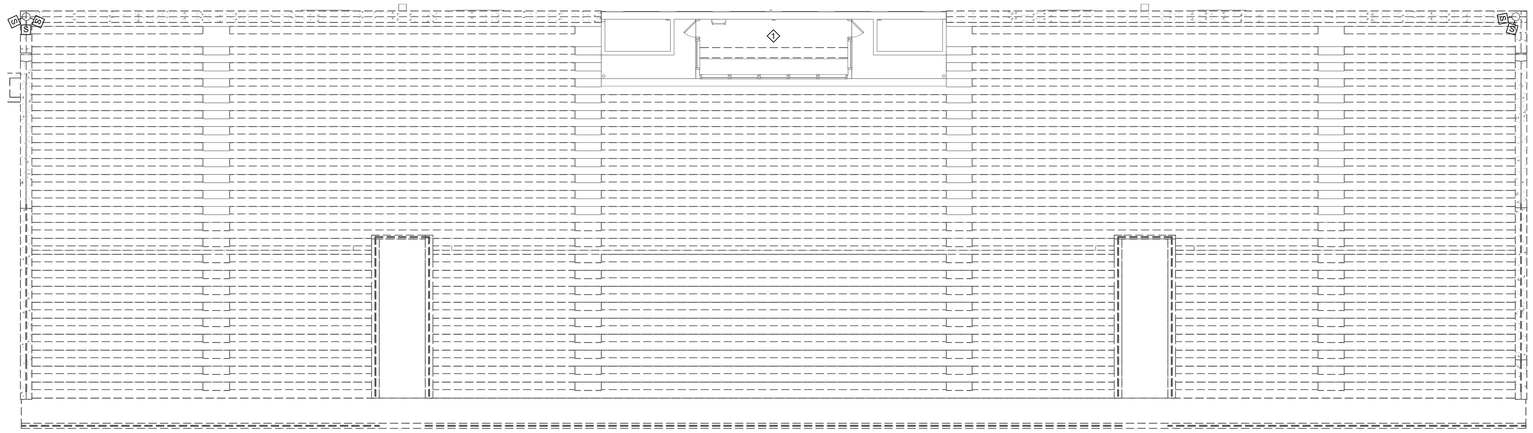
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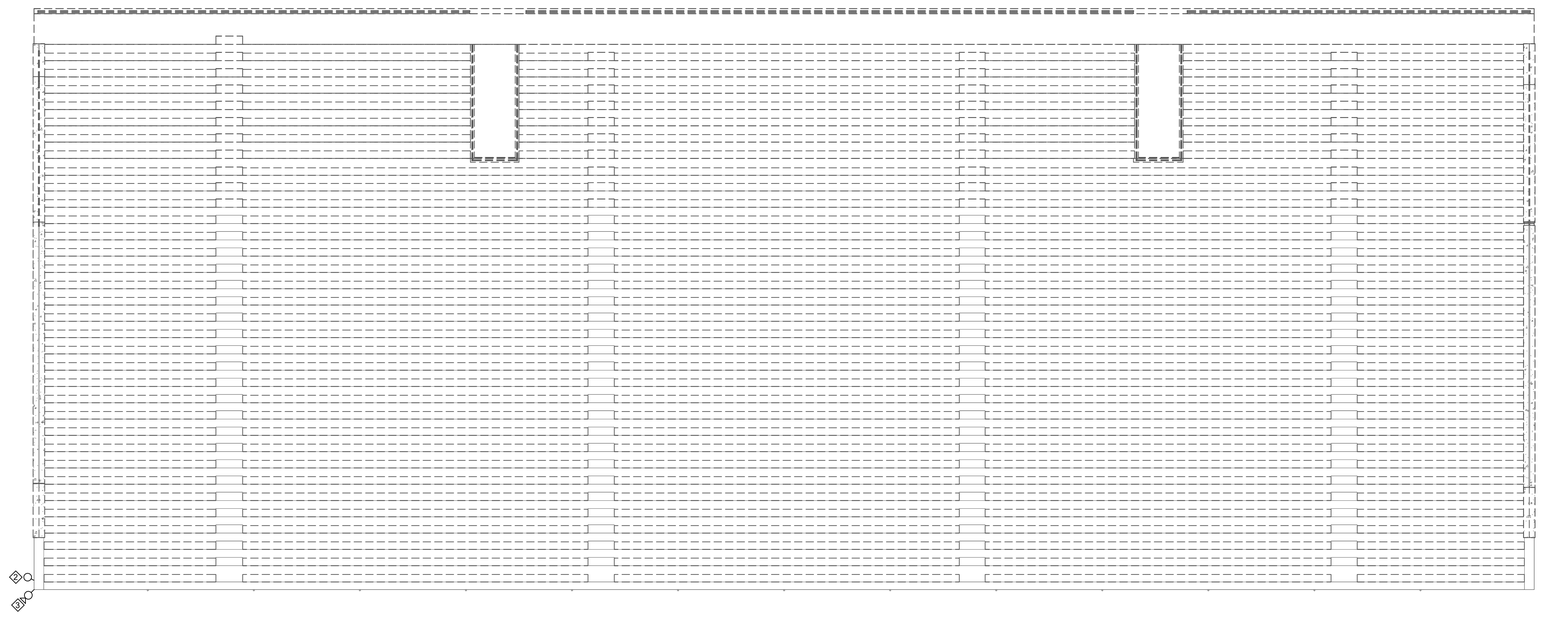
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2 VISITOR PRESS BOX SECOND FLOOR PLAN- ELECTRICAL DEMOLITION
1/8" = 1'-0"



1 VISITOR BLEACHER PLAN - ELECTRICAL DEMOLITION
1/8" = 1'-0"



3 HOME BLEACHER PLAN - ELECTRICAL DEMOLITION
1/8" = 1'-0"

## DRAWING NOTES:

1. UNLESS OTHERWISE NOTED, REMOVE ALL ELECTRICAL DEVICES, EQUIPMENT, AND WIRING/RACEWAY IN THIS AREA.
2. REMOVE WIRELESS NETWORK ANTENNA AND TURN OVER TO OWNER.
3. REMOVE SURVEILLANCE CAMERA AND TURN OVER TO OWNER.
4. REMOVE WALL MOUNT AV RACK AND ASSOCIATED WIRING/RACEWAY.
5. REMOVE WALL MOUNTED DATA RACK AND RELOCATE AS INDICATED AS INDICATED ON NEW WORK PLANS.

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DATE: 01/08/2025
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PROJ # : 24-SDL-03 DRAWN BY : A. NOLT

SHEET TITLE:
**BLEACHER PLANS - ELECTRICAL DEMOLITION**

SHEET NUMBER:
**E2.3**

**BID DOCUMENTS**

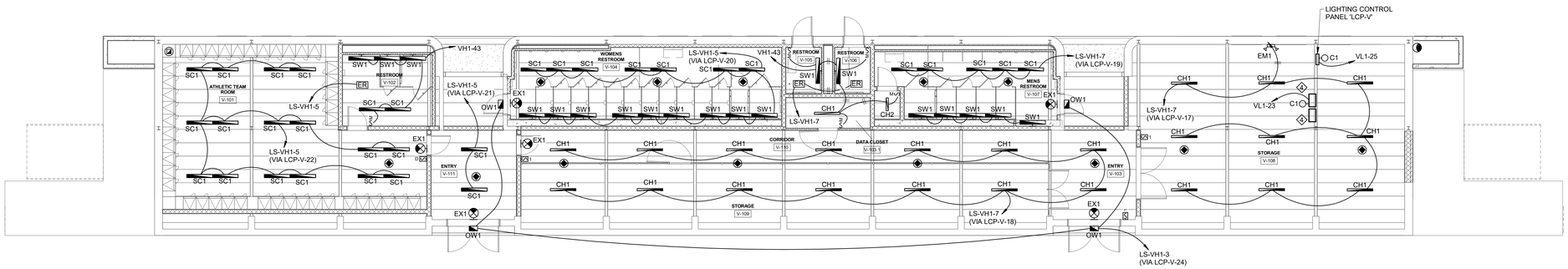
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## GENERAL NOTES:

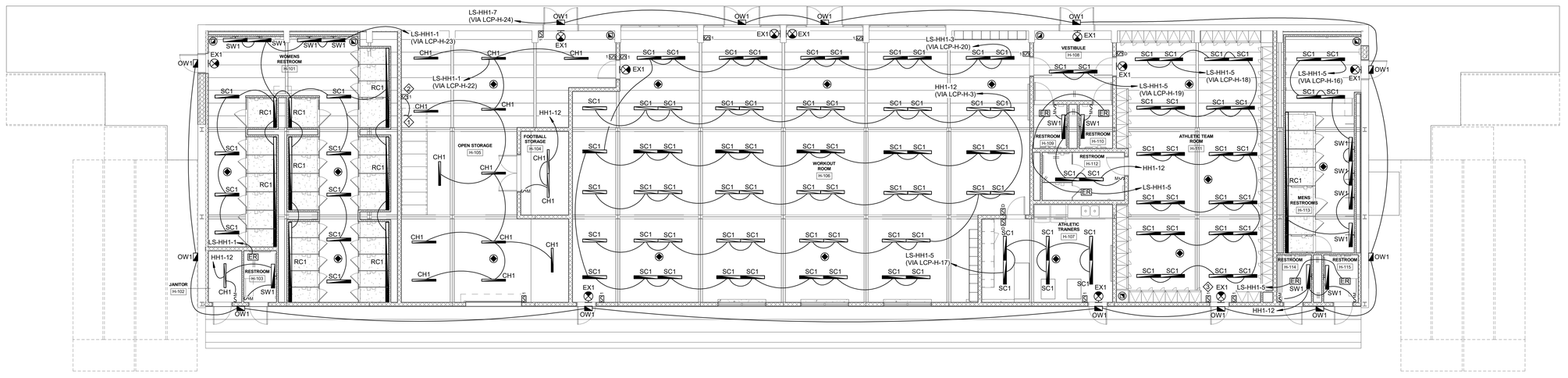
1. ALL VISITOR BLEACHER EXIT SIGNS SHALL BE CONNECTED TO BRANCH CIRCUIT LS-VH1-8.
2. ALL HOME BLEACHER EXIT SIGNS SHALL BE CONNECTED TO BRANCH CIRCUIT LS-HH1-2.

## DRAWING NOTES:

1. TO LIGHTING ON FLOOR ABOVE.
2. FOR CONTROL OF STAIR LIGHTING, SEE DRAWING E3.2.
3. FOR CONTROL OF PRACTICE FIELD FLOODLIGHTS. COORDINATE FINAL SWITCH LOCATION WITH OWNER PRIOR TO ROUGH-IN.
4. SPORTS FIELD LIGHTING CONTROL CABINET PROVIDED BY OWNER. COORDINATE INSTALLATION WITH OWNER'S SPORTS FIELD LIGHTING VENDOR.




1 VISITOR FIRST FLOOR PLAN - LIGHTING
1/8" = 1'-0"




2 HOME FIRST FLOOR PLAN - LIGHTING
1/8" = 1'-0"


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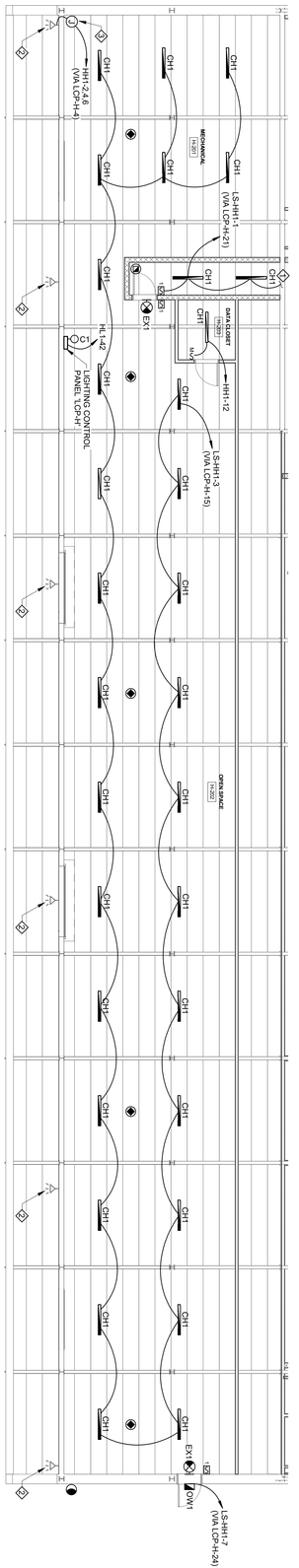
PROJ # : 24-SDL-03 DRAWN BY : A. NOLT

SHEET TITLE:
**FIRST FLOOR PLANS - LIGHTING**

SHEET NUMBER:
**E3.1**

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**BID DOCUMENTS**




1 HOME SECOND FLOOR PLAN - LIGHTING
1/8" = 1'-0"

DRAWING NOTES:

1. TO LIGHTING ON FLOOR BELOW.
2. EXISTING BUILDING MOUNTED FLOODLIGHT TO REMAIN.
3. EXISTING FLOODLIGHT BRANCH CIRCUIT FEED. CONNECT TO NEW BRANCH CIRCUIT AS INDICATED

RENOVATIONS
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**ISSUE DATES**

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|---|---|
| 01/08/2025 | BID DOCUMENTS |

PROJ # : 24-SDL-03 DRAWN BY : A. NOLT

SHEET TITLE:
**SECOND FLOOR PLAN - LIGHTING**

SHEET NUMBER:
**E3.2**

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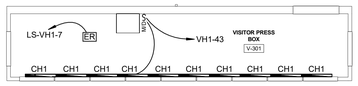
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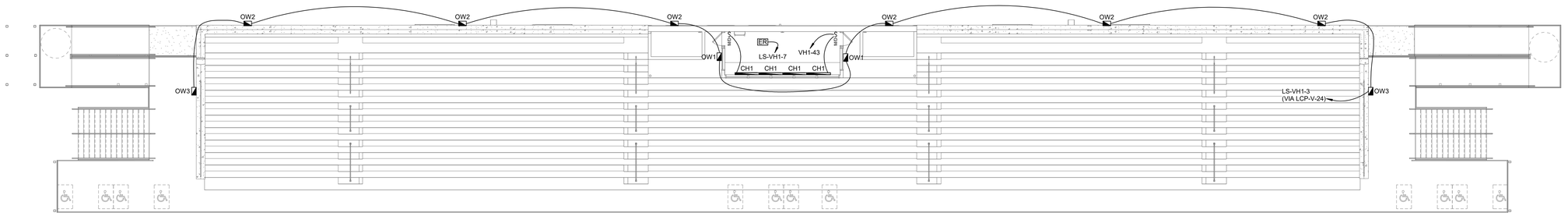
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## DRAWING NOTES:

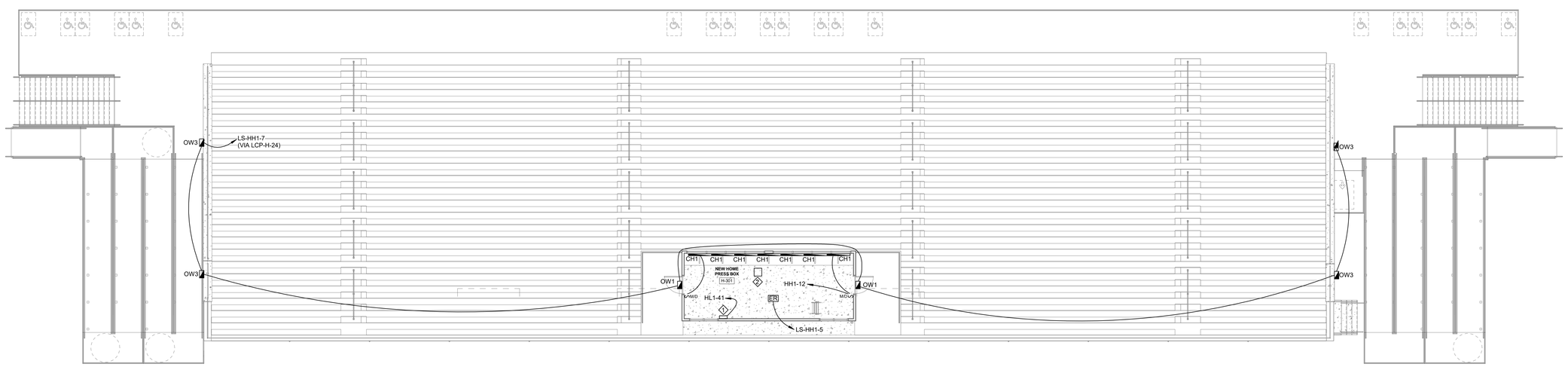
1. SPORTS FIELD LIGHTING CONTROLLER PROVIDED BY OWNER. COORDINATE INSTALLATION WITH OWNER'S SPORTS FIELD LIGHTING VENDOR.
2. DESKTOP SPORTS FIELD LIGHTING TOUCHSCREEN CONTROL BY OWNER. COORDINATE INSTALLATION WITH OWNER'S SPORTS FIELD LIGHTING VENDOR.




2 VISITOR PRESS BOX SECOND FLOOR PLAN - LIGHTING
1/8" = 1'-0"




1 VISITOR BLEACHER PLAN - LIGHTING
1/8" = 1'-0"




3 HOME BLEACHER PLAN - LIGHTING
1/8" = 1'-0"


MAROTTA/MAIN ARCHITECTS
WWW.MAROTTAMAIN.COM



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SEAL:

School District of Lancaster
*Together We Can!*

CONSULTANT:


MOORE ENGINEERING COMPANY
3637 Columbia Avenue, Lancaster PA 17603
P. 717.285.3141, MooreEngineering.com


RENOVATIONS
J.P. MCCASKEY STADIUM
PROJECTS
SCHOOL DISTRICT OF LANCASTER
445 N RESERVOIR ST, LANCASTER, PA 17602

ISSUE DATES
DATE: 01/08/2025
DESCRIPTION: BID DOCUMENTS

PROJ # : 24-SDL-03
DRAWN BY : A. NOLT

SHEET TITLE:

**BLEACHER PLANS - LIGHTING**

SHEET NUMBER:

**E3.3**

**BID DOCUMENTS**

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