

**DOCUMENT 00 90 00  
ADDENDUM**

**ADDENDUM NO. [4]                      Date: November 21, 2018**

**RE:                      GLENWOOD COMMUNITY SCHOOL DISTRICT  
ATHLETIC COMPLEX IMPROVEMENTS BID PACKAGE 2 REBID  
400 SIVERS ROAD  
GLENWOOD, IOWA 51534  
HSR PROJECT NO. 18005**

**FROM:                  HSR Associates, Inc  
100 Milwaukee Street  
La Crosse, WI 54603  
(608) 784-1830**

**To:                      Prospective Bidders**

This addendum forms a part of the Contract Documents and modifies the original Bidding Documents dated November 2018. Acknowledge receipt of this Addendum in the space provided on the bid form. Failure to do so may subject the Bidder to disqualification.

This Addendum consists of [3] pages and [13] 30 x 42 Drawings.

**CHANGES TO DRAWINGS**

1. The following drawings were referenced by text in addendum 3 but not attached to the addendum.
2. Sheet P100R GATEWAY & STADIUM UNDERFLOOR PLUMBING PLANS 30 x 42 attached hereto.
  - a. Revisions clouded on Drawing.
  - b. Double exterior cleanouts on sanitary pipe 5'-0" away leaving the building. See detail on sheet P103
  - c. Added Notes #1, #2 and #3 to see civil plans for continuation and exterior cleanout detail.
  - d. Added plumbing riser designations to cross reference Underfloor Plumbing Plans to the Plumbing Risers on P104.
  - e. Add note for location of cast iron pipe in Concessions A113.
3. Sheet P101R GATEWAY BUILDING PLUMBING PLAN 30 x 42 attached hereto.
  - a. Revisions clouded on Drawing
  - b. In Concessions A113; cap 3/4" gas pipe at 10'-0" above finished floor for future range, extend 3/4" domestic hot and cold water down wall to electric kettle. Terminate at 18" above finished floor with ball valve and threaded hose connection. Added floor sink adjacent to electric kettle.
  - c. Extend drain line from roof hydrant over to floor drain in MECH. A110.
  - d. Added water hammer arrestors in domestic cold water pipe where shown. Refer to schedule on P103.
  - e. Added sheet notes 11, 12, 13, 14, and 15.

Sheet P102R STADIUM BUILDING PLUMBING PLAN 30 x 42 attached hereto.

- a. Revisions clouded on Drawing
  - b. Added elevator sump pump (SP-1) horizontal pipe discharge from 2" to 3" and extend to over to service sink (SS-1) in Jan. /Mech. B103.
  - c. Locate domestic water heater (DWH-2) located on floor next to service sink.
  - d. Revised Stadium Water Service Detail – there are two details with (1) for Base Bid and (1) for Alternate Bid.
  - e. Revised sheet note #7.
4. Sheet P103R PLUMBING SCHEDULES, DETAILS & SYMBOLS 30 x 42 attached hereto.
- a. Revisions clouded on Drawing
  - b. Update Elevator Pit Sump Pump Detail – Show 3" PVC horizontal pipe with 2" riser from sump pump (SP-1).
  - c. Plumbing Equipment Schedule – (DWH-2), shall be a 40 gallon tank, model number ENT-40.
  - d. Water Hammer Arrestor Schedule was added.
  - e. Plumbing Fixture Schedule – (L-2), Changed model number to EW72000.
5. Sheet P104R PLUMBING & GAS RISERS 30 x 42 attached hereto.
- a. Revisions clouded on Drawing
  - b. Gas Riser – Shows 3/4" gas pipe capped for future range.
6. Sheet M100R GATEWAY BUILDING HVAC PLAN 30 x 42 attached hereto.
- a. Revisions clouded on Drawing
  - b. Changed location and duct size of exhaust (EF-2).
7. Sheet M101R STADIUM BUILDING HVAC PLAN 30 x 42 attached hereto.
- a. Revisions clouded on Drawing
  - b. Extend humidity drain pipe from (AC-1), (AC-2) & (AC-3) over to floor drain located in Jan. /Mech. B103.
  - c. Relocated (MS-1), (MS-2) and (MS-3).
8. Sheet M103R HVAC SCHEDULES, DETAILS AND SYMBOLS 30 x 42 attached hereto.
- a. Revisions clouded on Drawing
  - b. Roof Top Unit Schedule – Note correction on #1, exhaust discharge – side.
  - c. Exhaust Fan Schedule – Changed exhaust fan (EF-2) and added note #6.
9. Sheet E001R ELECTRICAL SITE PLAN 30 x 42 attached hereto.
- a. Revisions clouded on Drawing
  - b. Background has been updated.
10. Sheet E200R GATEWAY BUILDING POWER PLAN 30 x 42 attached hereto.
- a. Revisions clouded on Drawing
  - b. Moved telecom board in MECH A110 room.
  - c. Duct smoke detector and note added to RTU-1 on Electrical Roof Plan.

- d. Ice machine removed from Concessions Enlarged Power Plan – two ice machine locations added to First Floor Power Plan.
  - e. Receptacle changed to wall-mounted Junction Box on Concessions Enlarged Power Plan.
  - f. Wall Mounted Junction box added for Speed Controller for EF-2 on Concessions Enlarged Power Plan.
  - g. Notes added for new ice machine locations and wall mounted Speed Controller for EF-2.
11. Sheet E201R FIRST FLOOR STADIUM POWER PLAN 30 x 42 attached hereto.
- a. Revisions clouded on Drawing
  - b. MS-1, 2, 3 location moved – Circuits to each unit relocated.
  - c. DWH-2 location moved in JAN./MECH B103 – Circuit relocated.
  - d. Panels 2A/2B in JAN./MECH B103 relocated from behind door.
12. Sheet E300R ELECTRICAL SCHEDULES 30 x 42 attached hereto.
- a. Revisions clouded on Drawing
  - b. EWH-1 added to Equipment Connection Schedule.
  - c. Ice machine circuits added to Panel 1B in Panel Schedule.
  - d. EF-2 circuit added to Panel 1B in Panel Schedule.
13. Sheet E400R ELECTRICAL DETAILS 30 x 42 attached hereto.
- a. Revisions clouded on Drawing
  - b. Two Electrical Details were removed from this page

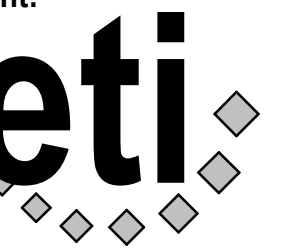
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ETI Project No: 2018-113

Project Title: **GLENWOOD COMMUNITY SCHOOL DISTRICT  
ATHLETIC COMPLEX IMPROVEMENTS - BID PKG. #2 -  
REBID**  
Project Location: 400 SIVERS RD.  
GLENWOOD, IA 51534  
Sheet Title: **GATEWAY & STADIUM UNDERFLOOR PLUMBING PLANS**

HSR Project Number: **18005**

Project Date: **NOVEMBER 2018**

Drawn By: **TJM**

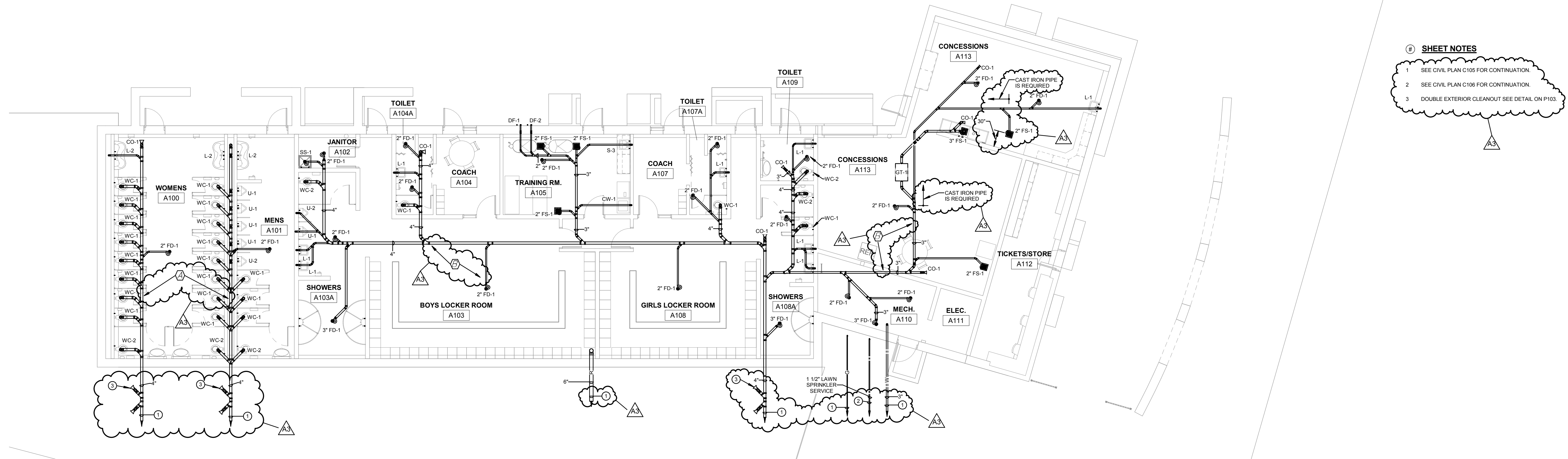
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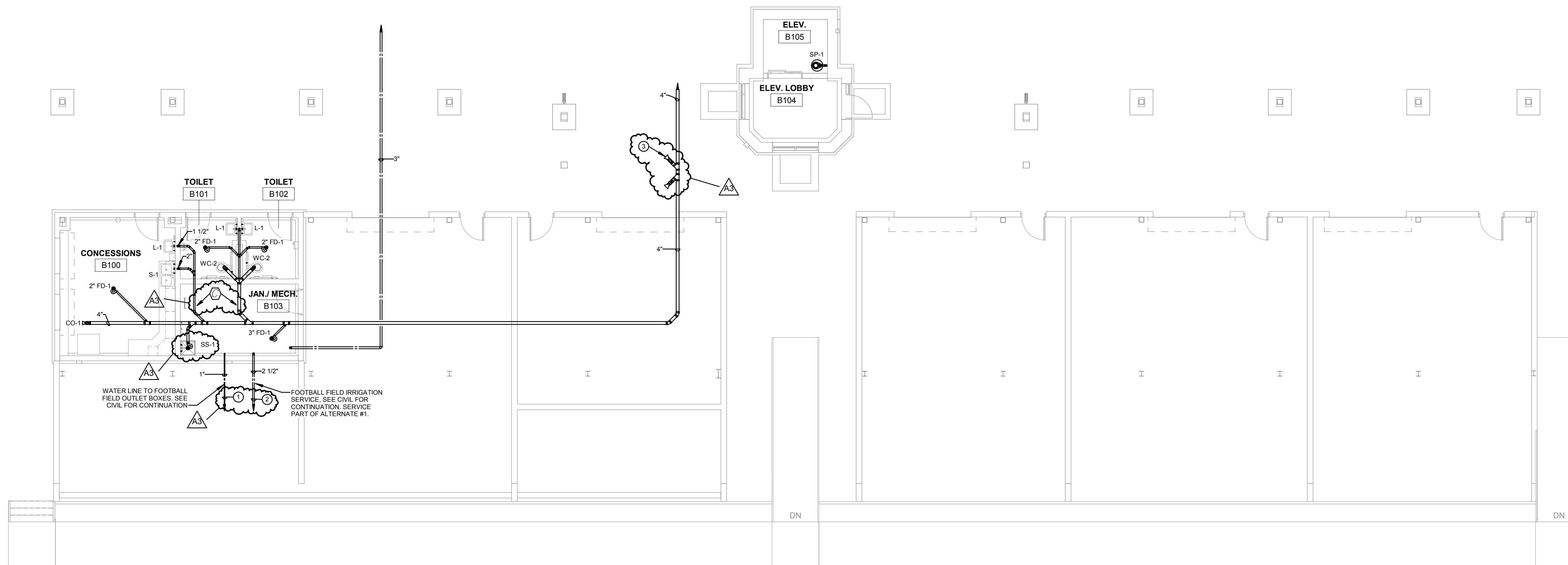
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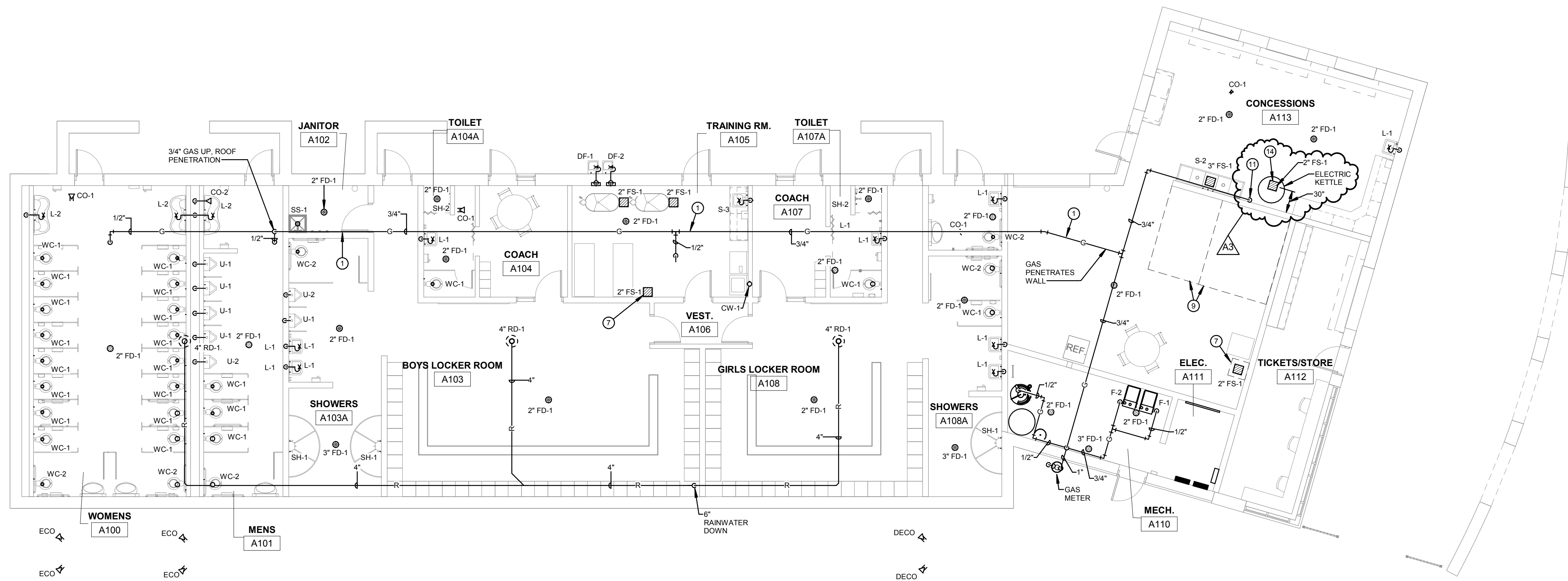
**P100R**



**1** UNDERFLOOR PLUMBING GATEWAY BUILDING  
1/8" = 1'-0"

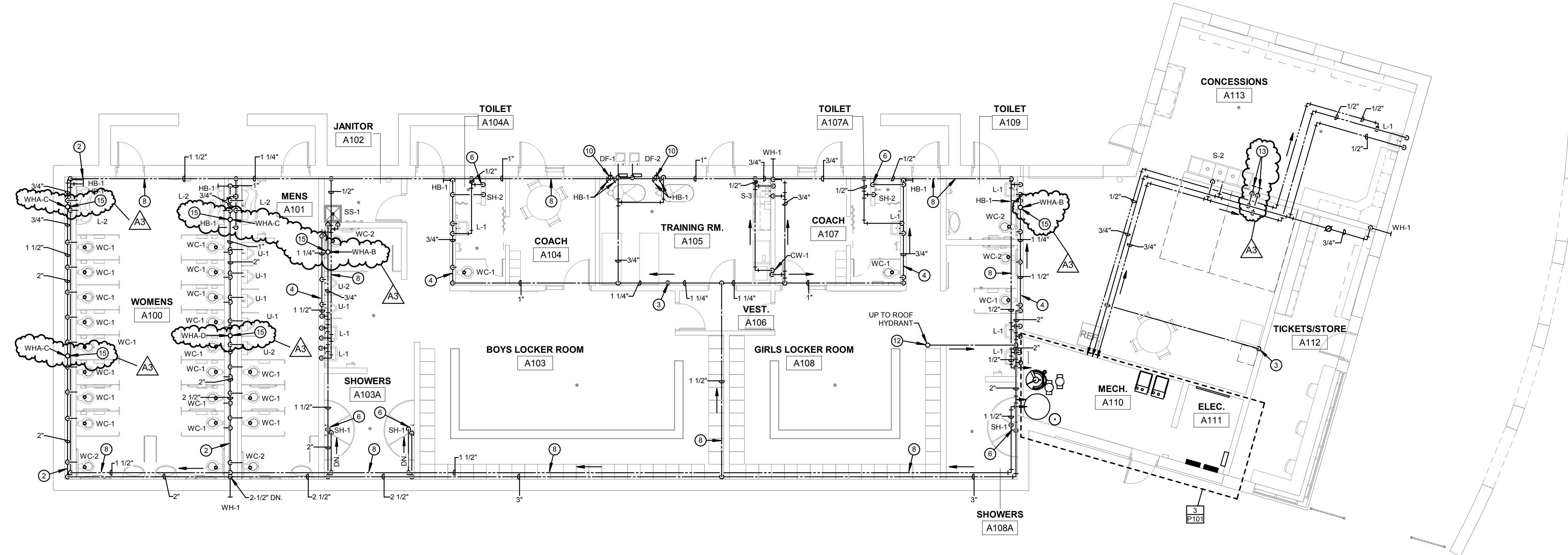


**2** UNDER FLOOR PLUMBING STADIUM BUILDING  
1/8" = 1'-0"

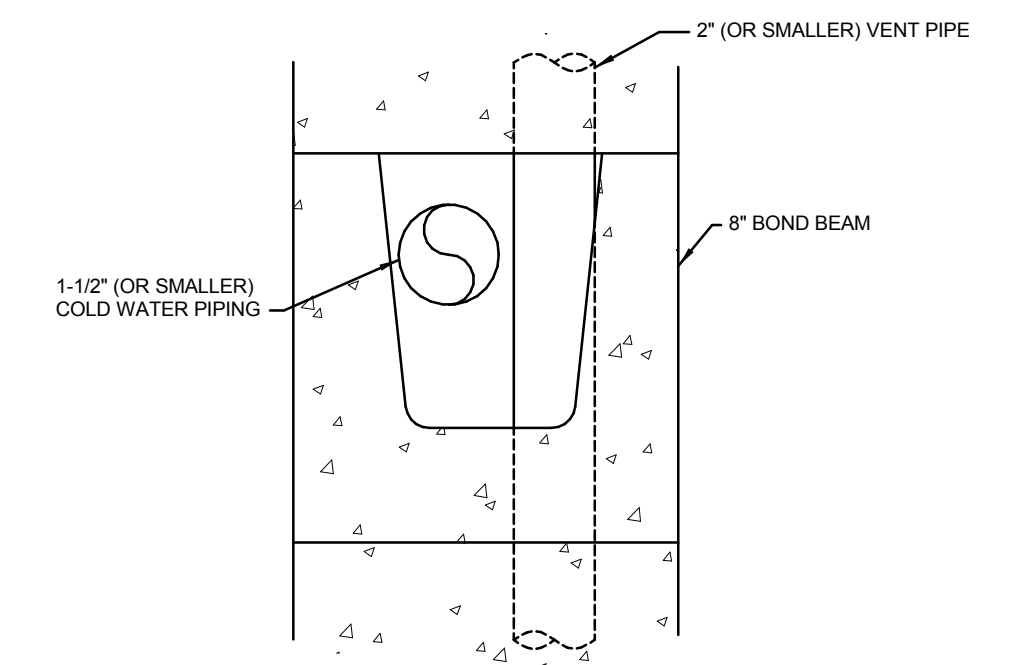


**1** SANITARY/RAINWATER/GAS ABOVE FLOOR GATEWAY BUILDING  
1/8" = 1'-0"

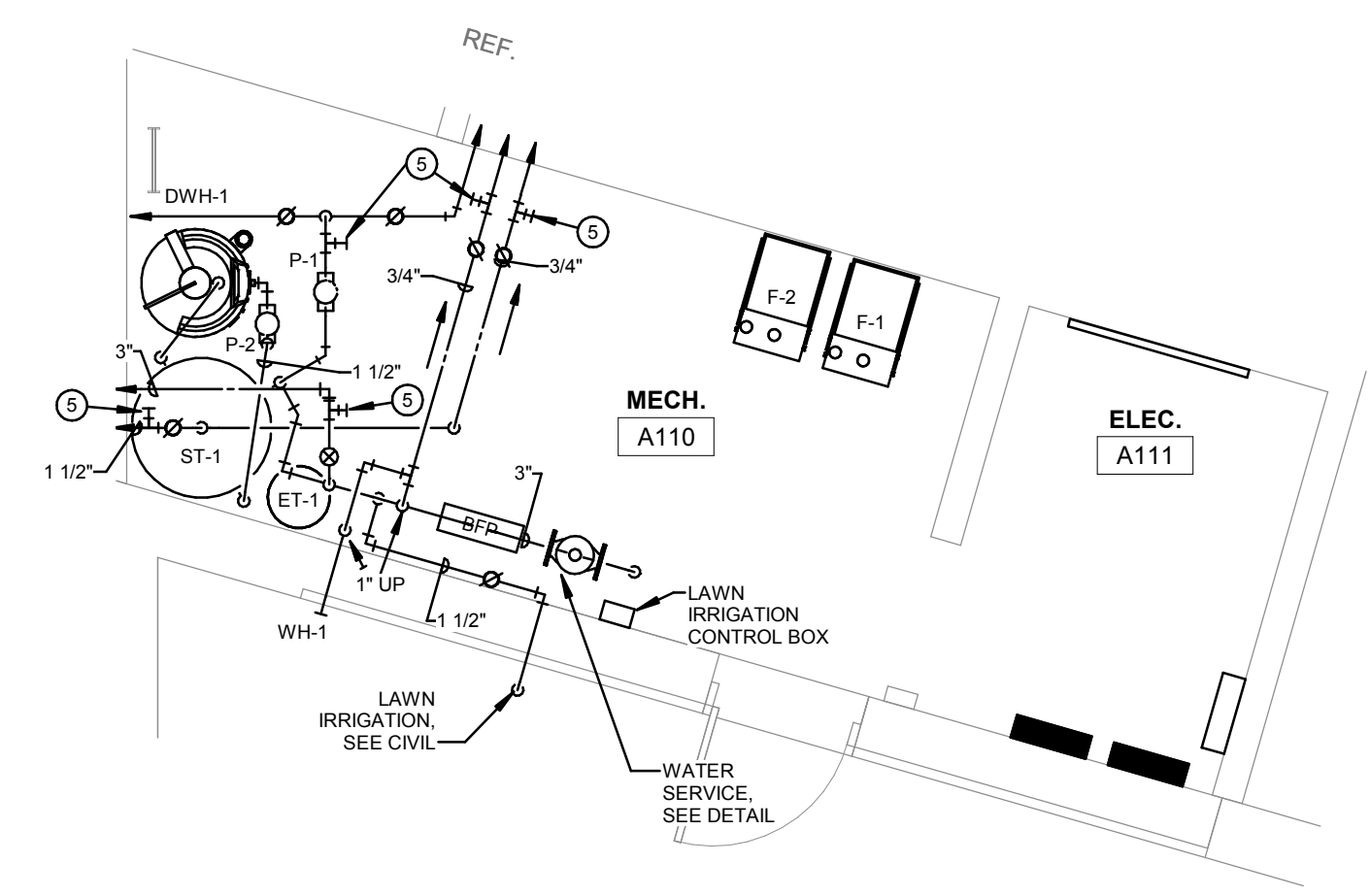
- SHEET NOTES**
- GAS PIPING IS ON THE ROOF ABOVE. SEE SHEET M100 FOR PIPING ON ROOF AND CONNECTION TO RTU-1. PROVIDE RUBBER PIPE ROLLERS W/PA #17-2046 (OR EQUAL) SUPPORTS FOR GAS PIPING ON ROOF A MINIMUM OF EVERY 10 FEET.
  - WATER PIPING TO BE INSTALLED AT 18" ABOVE FINISHED FLOOR. SLOPE PIPING TOWARDS HOSE BIBBS. HOSE BIBBS ARE TO BE THE LOW POINT OF THE PIPING SYSTEM TO ALLOW FOR WINTERIZATION OF THE DOMESTIC WATER SYSTEM.
  - EXTEND 1/2" COLD WATER LINE DOWN TO ICE MACHINE. PROVIDE SHUTOFF VALVE. BACKFLOW DEVICE AS REQUIRED PER LOCAL CODES AND UNION.
  - COORDINATE WITH WALL CONTRACTOR LOCATION OF ROND BEAMS REQUIRED FOR HORIZONTAL DOMESTIC PIPING AS SHOWN. SEE "ROND BEAM PLUMBING DETAIL" ON THIS SHEET. DOMESTIC WATER PIPING TO BE BELOW FLUSH VALVES HEIGHTS AND SLOPE DOWN TO WALL HYDRANT HOSE BIBBS.
  - 3/4" BALL VALVE AND THREADED HOSE CONNECTION FOR CONNECTION OF COMPRESSED AIR FOR WINTERIZATION.
  - PROVIDE DRAIN EXTENSION PIPING FROM SHOWER CONTROL VALVES AS SHOWN IN "SHOWER DRAIN DETAIL" SHOWN ON THIS SHEET.
  - EXTEND DRAIN FROM ICE MACHINE TO FS-1.
  - SECURE PIPING TO WALL.
  - EXTEND HUMIDITY DRAIN FROM FREEZER AND COOLER EVAPORATOR COIL TO OVER FLOOR SINK LOCATED UNDER 3 ROWS SINK (S-3). INSULATE PIPING IN FREEZER.
  - EXTEND 1/2" DOMESTIC HOT AND COLD WATER PIPE DOWN TO HOSE BIBB FOR WHIRLPOOL. MOUNT AT 42" ABOVE FINISHED FLOOR.
  - CAP 3/4" GAS AT 10'-0" ABOVE FINISHED FLOOR FOR FUTURE RANGE.
  - EXTEND DRAIN LINE TO FLOOR DRAIN IN MECH A110.
  - 3/4" DOMESTIC HOT AND COLD WATER DOWN WALL TO ELECTRIC KETTLE. TERMINATE AT 18" ABOVE FINISHED FLOOR WITH BALL VALVE AND THREADED HOSE CONNECTION.
  - INSTALL CENTERLINE OF FLOOR SINK 30" FROM WALL.
  - WATER HAMMER ARRESTOR, SEE SCHEDULE ON P104.



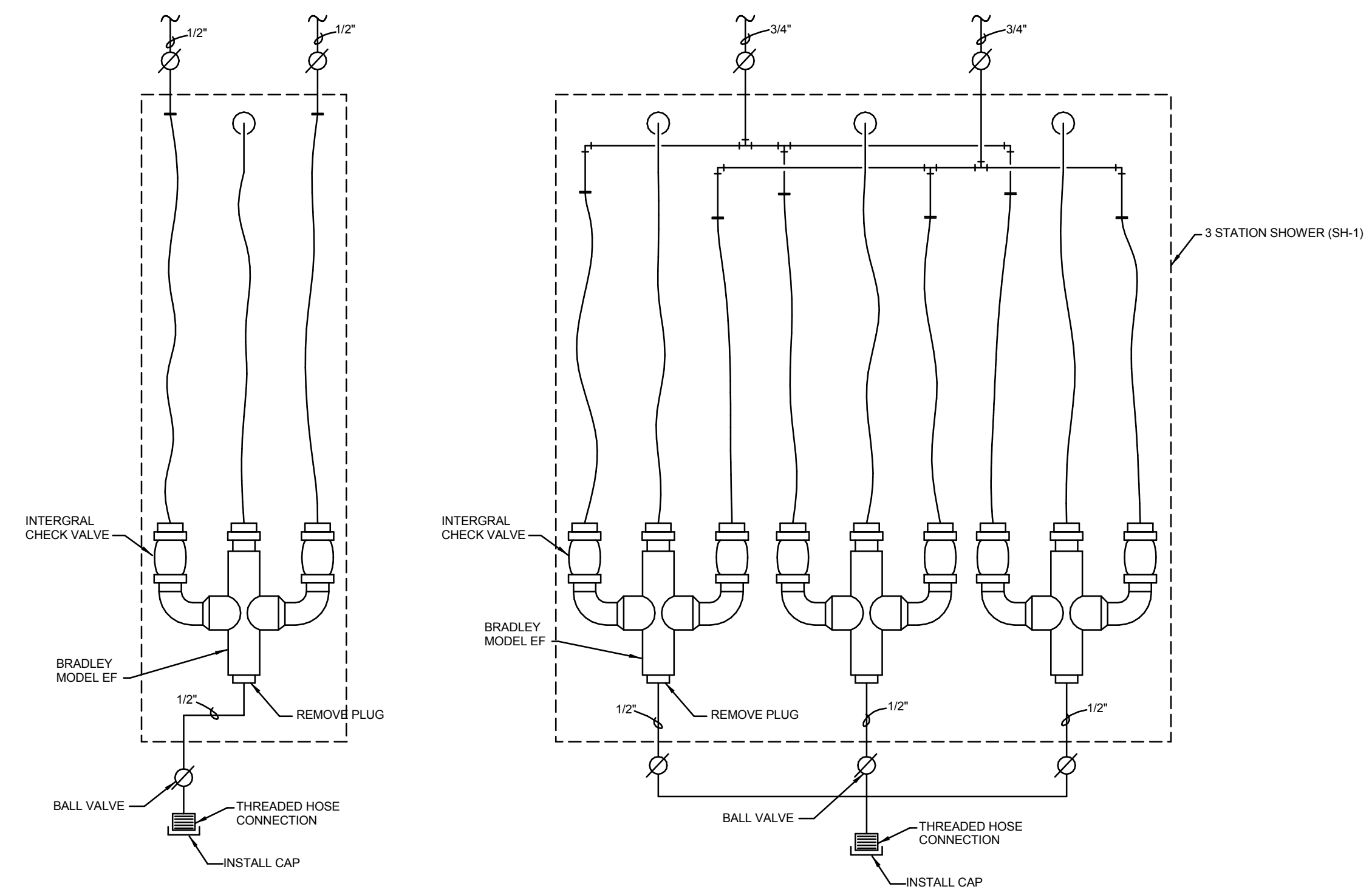
**2** DOMESTIC WATER ABOVE FLOOR GATEWAY BUILDING  
1/8" = 1'-0"



**4** BOND BEAM PLUMBING DETAIL  
12" = 1'-0"



**3** DOMESTIC WATER MECHANICAL ROOM ENLARGED PLAN  
1/4" = 1'-0"



**5** SHOWER DRAIN EXTENSION DETAIL  
12" = 1'-0"

HSR Project Number: 18005

Project Date: NOVEMBER 2018

Drawn By: TJM

Key Plan:

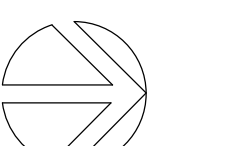


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Graphic Scale: VARIES

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**P101R**



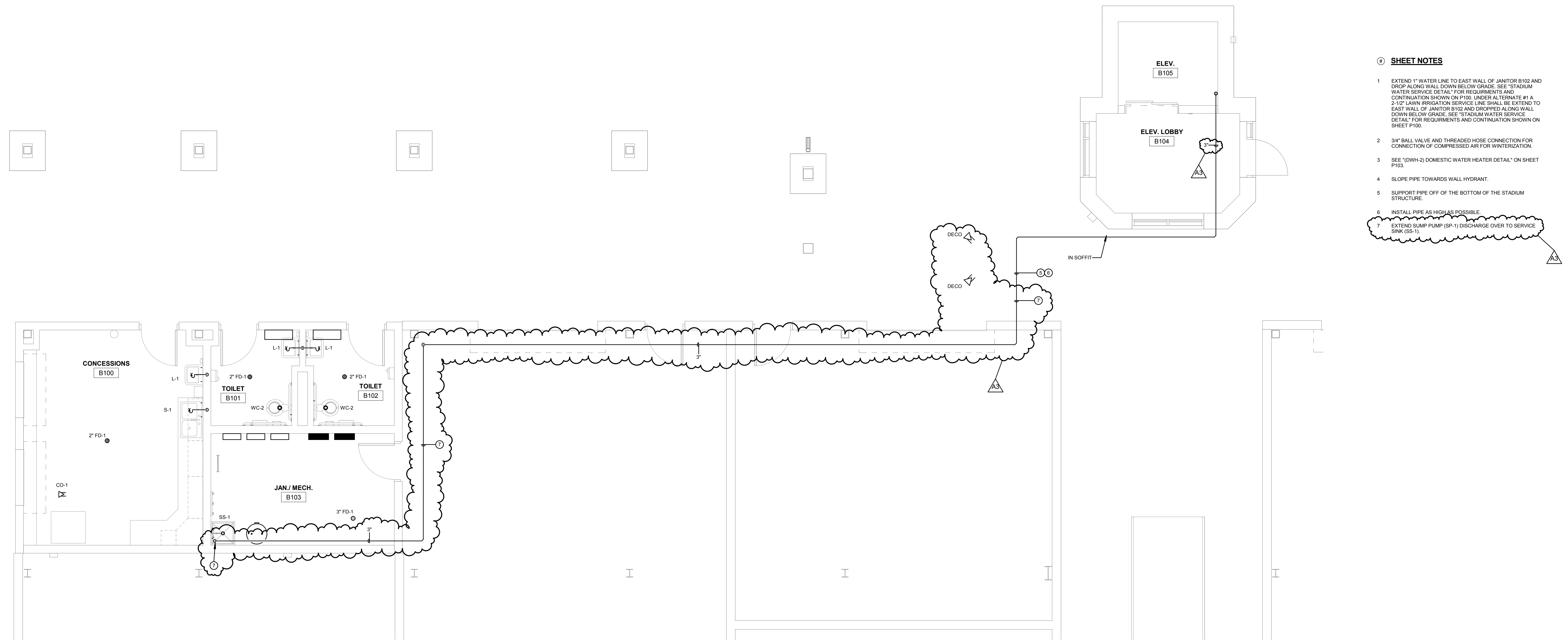
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**P102R**

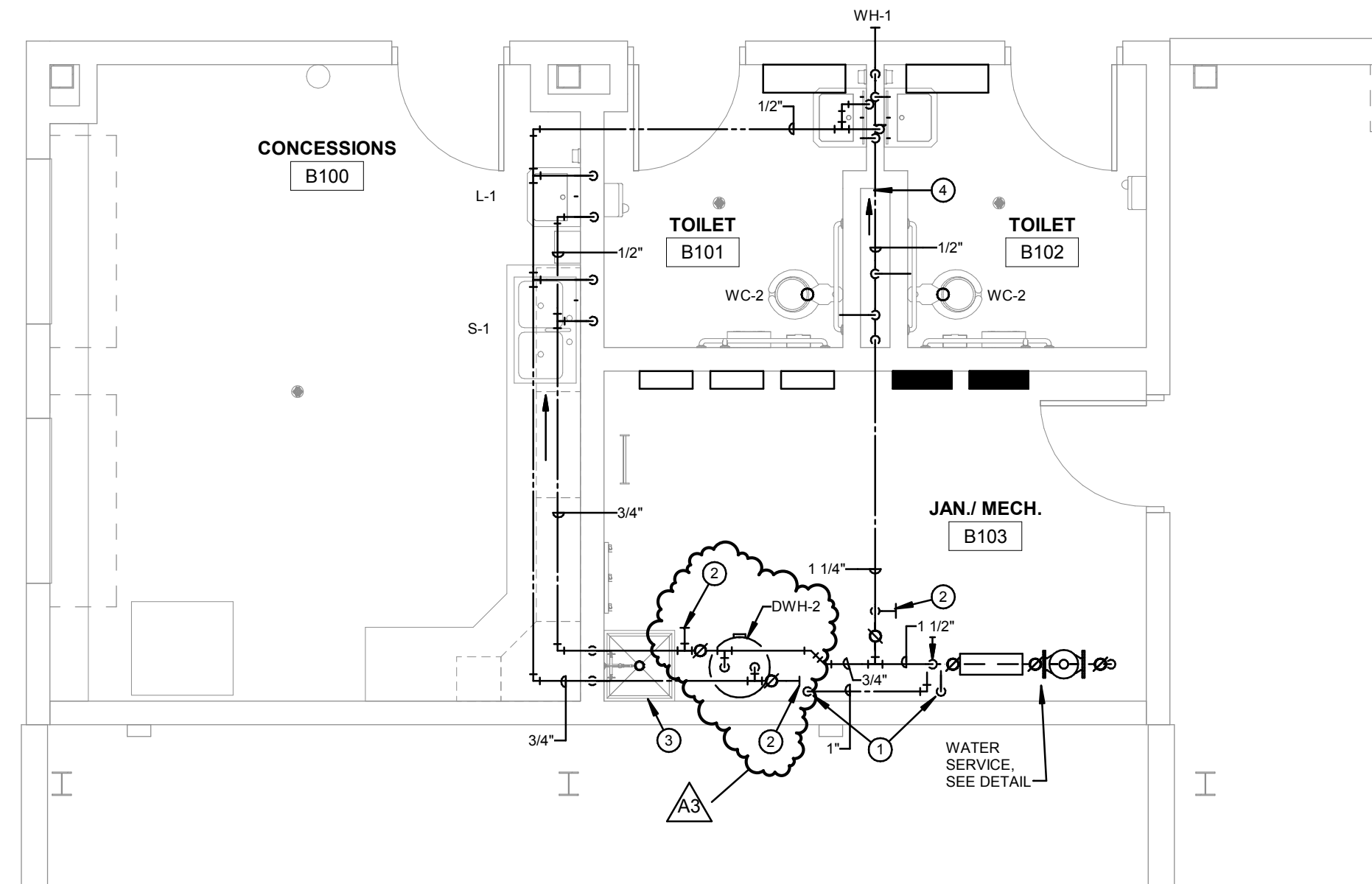


**SHEET NOTES**

1. EXTEND 1" WATER LINE TO EAST WALL OF JANITOR B102 AND DROP ALONG WALL DOWN BELOW GRADE. SEE 'STADIUM WATER SERVICE DETAIL' FOR REQUIREMENTS AND CONTINUATION SHOWN ON P100. UNDER ALTERNATE #1 A 2-1/2" LAWN IRRIGATION SERVICE LINE SHALL BE EXTENDED TO EAST WALL OF JANITOR B102 AND DISPOSED ALONG WALL DOWN BELOW GRADE. SEE 'STADIUM WATER SERVICE DETAIL' FOR REQUIREMENTS AND CONTINUATION SHOWN ON SHEET P100.
2. 3/4" BALL VALVE AND THREADED HOSE CONNECTION FOR CONNECTION OF COMPRESSED AIR FOR WINTERIZATION.
3. SEE '(DWH-2) DOMESTIC WATER HEATER DETAIL' ON SHEET P103.
4. SLOPE PIPE TOWARDS WALL HYDRANT.
5. SUPPORT PIPE OFF OF THE BOTTOM OF THE STADIUM STRUCTURE.
6. INSTALL PIPE AS HIGH AS POSSIBLE.
7. EXTEND SUMP PUMP (SP-1) DISCHARGE OVER TO SERVICE SINK (SS-1).

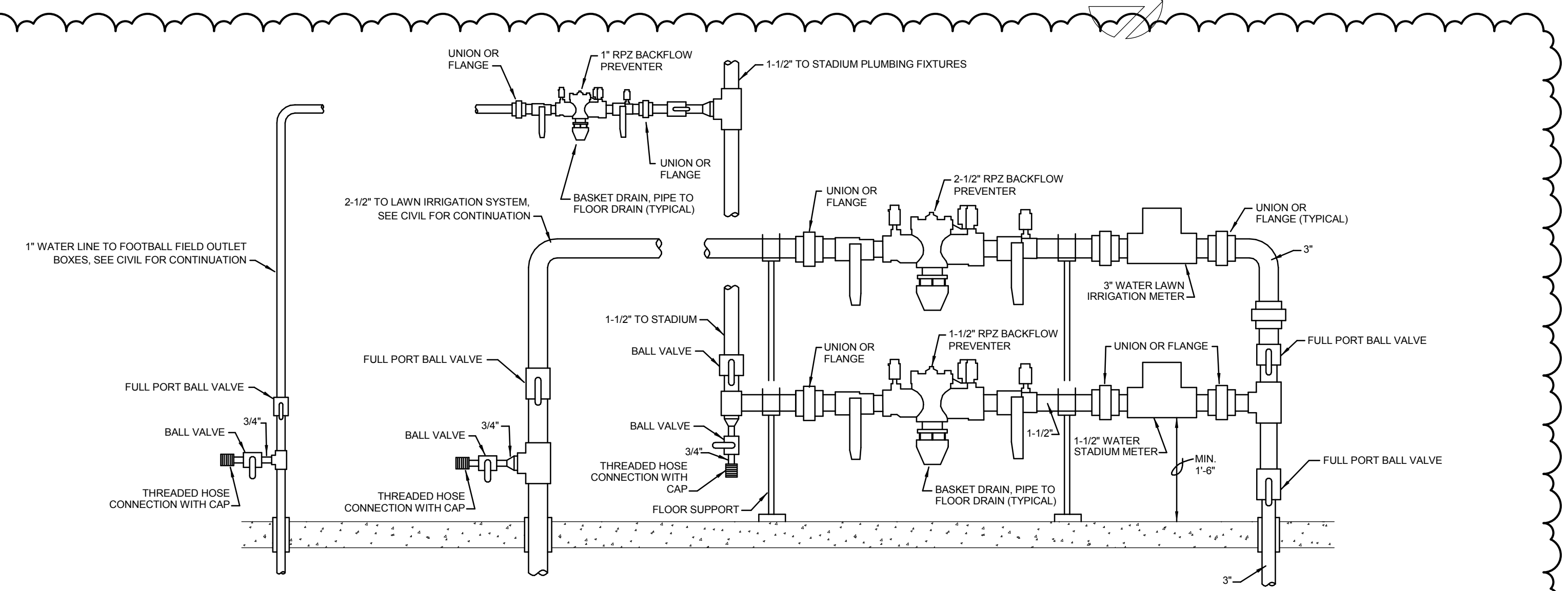
**1 SANITARY ABOVE FLOOR STADIUM BUILDING**

1/4" = 1'-0"



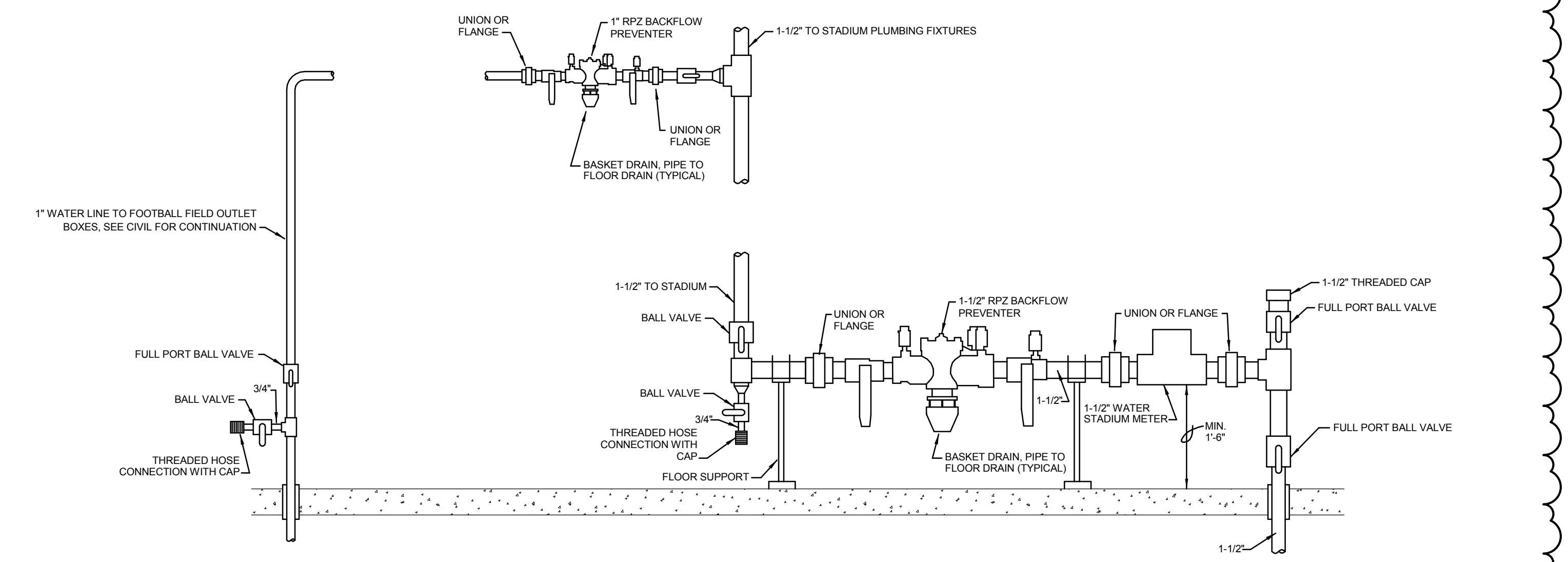
**2 DOMESTIC WATER ABOVE FLOOR STADIUM BUILDING**

1/4" = 1'-0"



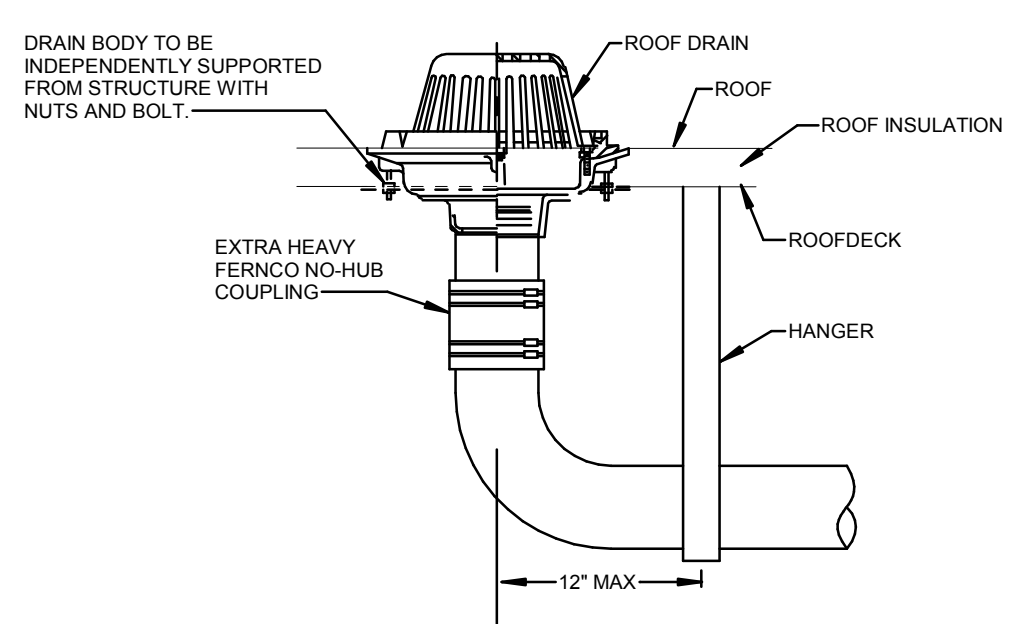
**3 STADIUM WATER SERVICE DETAIL - BASE BID**

NOT TO SCALE

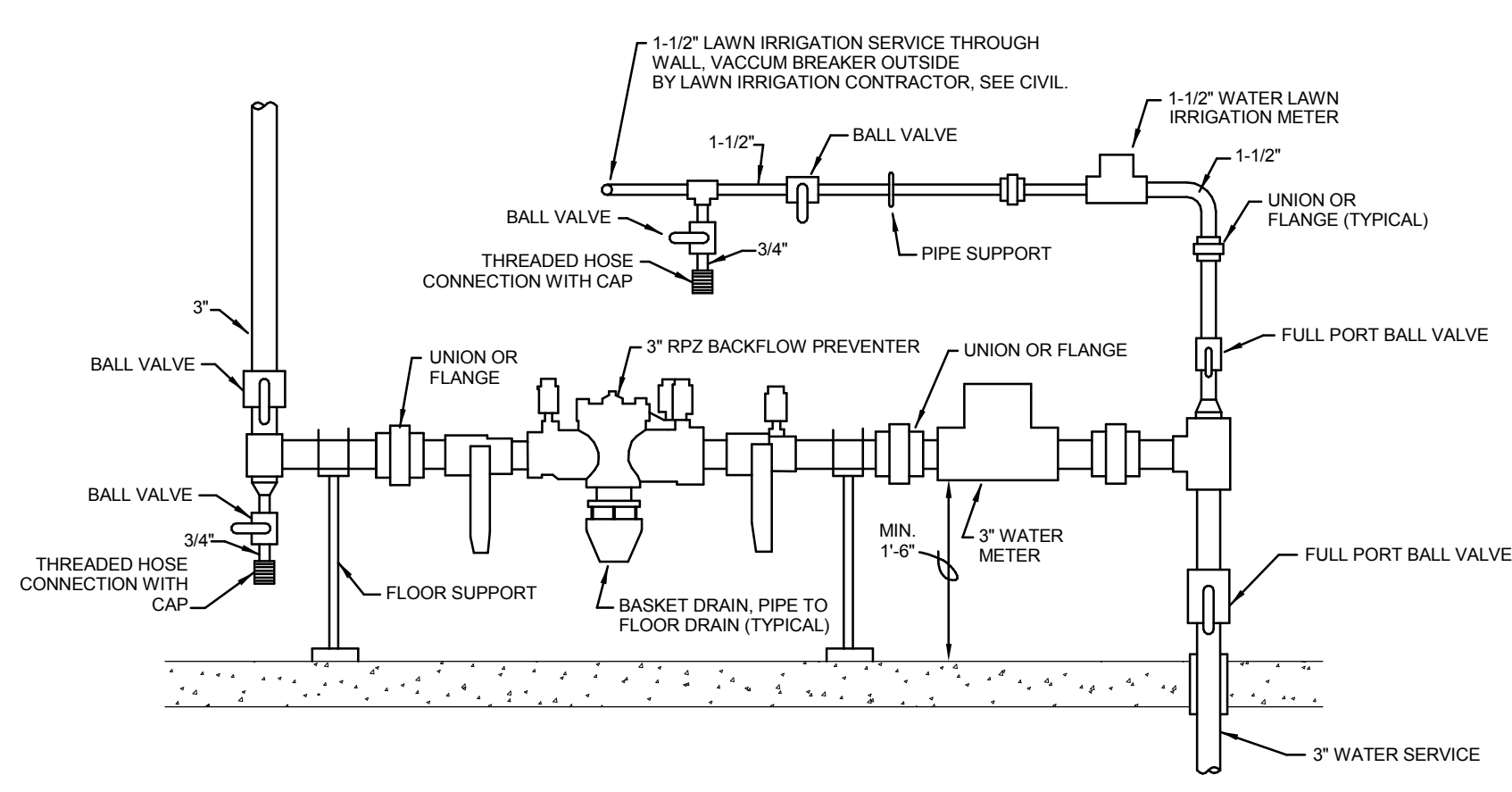


**4 STADIUM WATER SERVICE DETAIL - ALTERNATE BID**

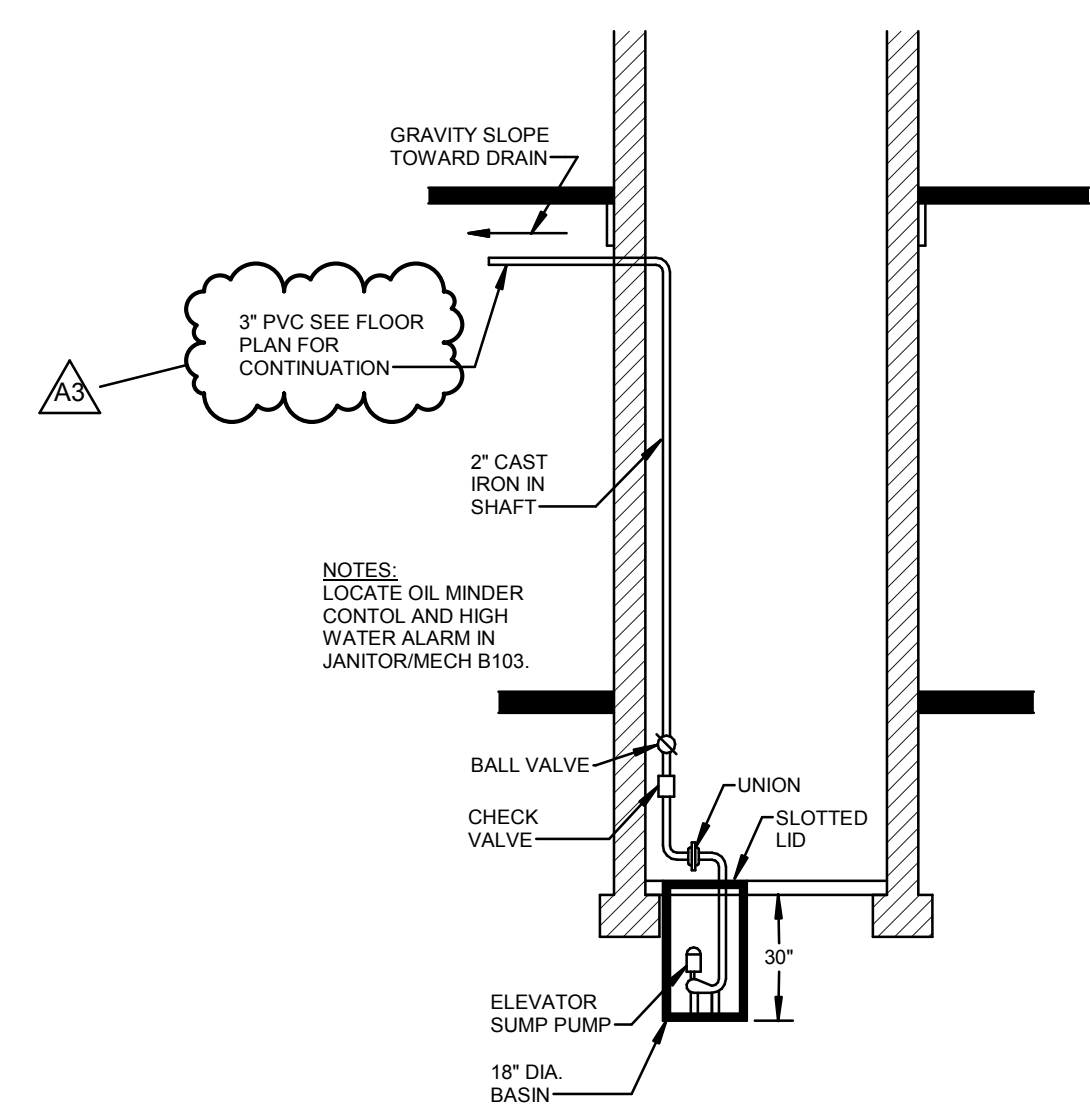
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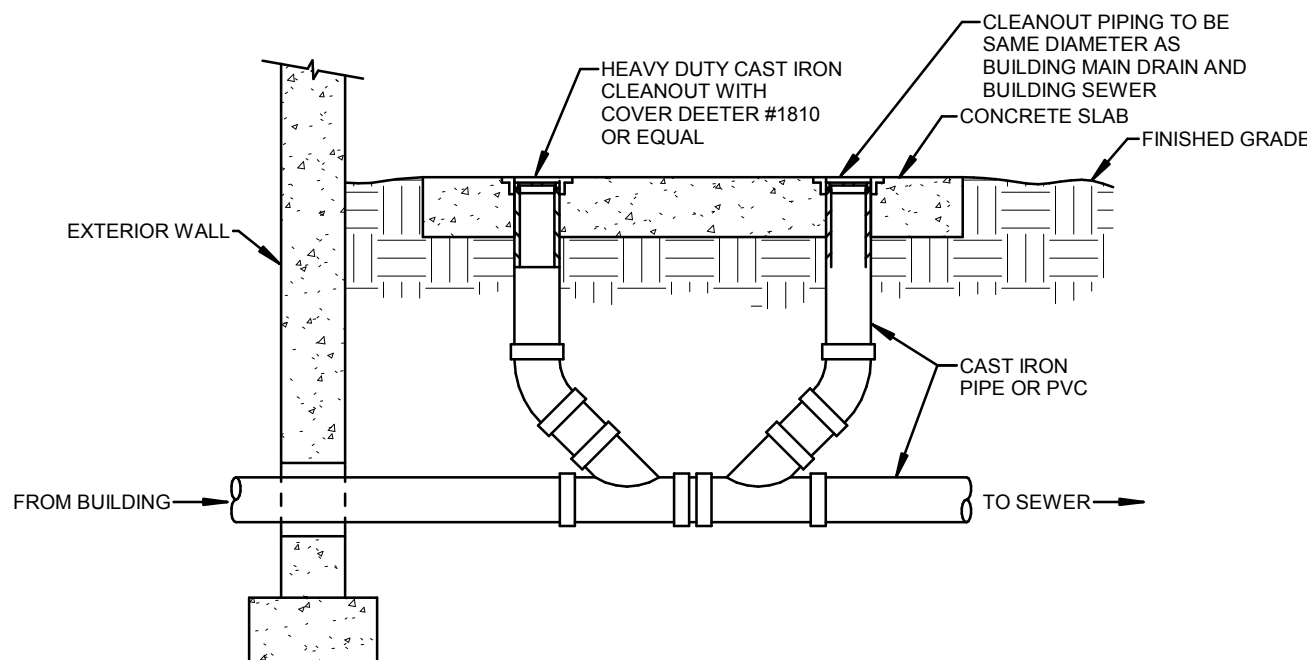
**1 ROOF DRAIN DETAIL**  
NOT TO SCALE



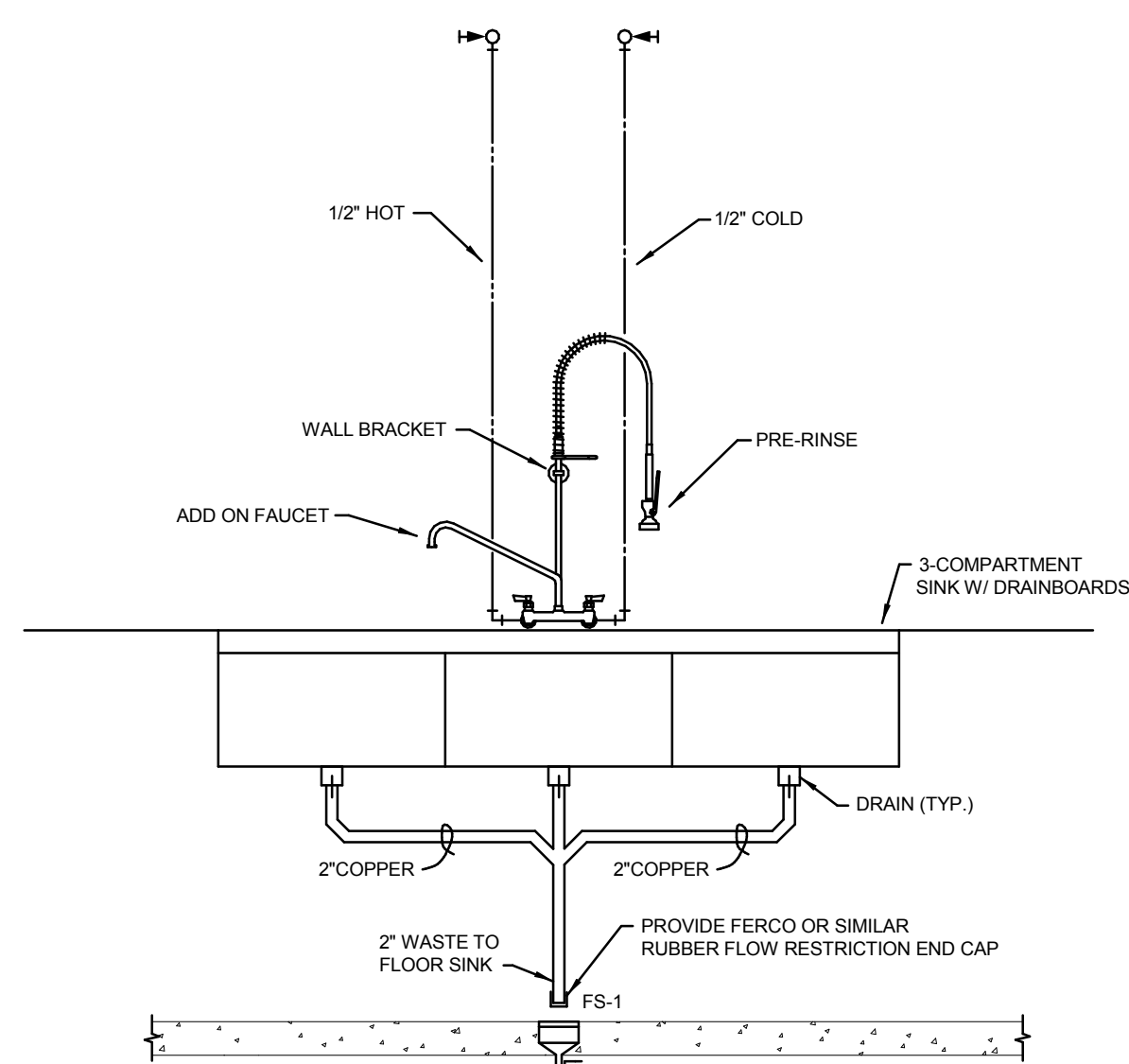
**2 GATEWAY WATER SERVICE DETAIL**  
NOT TO SCALE



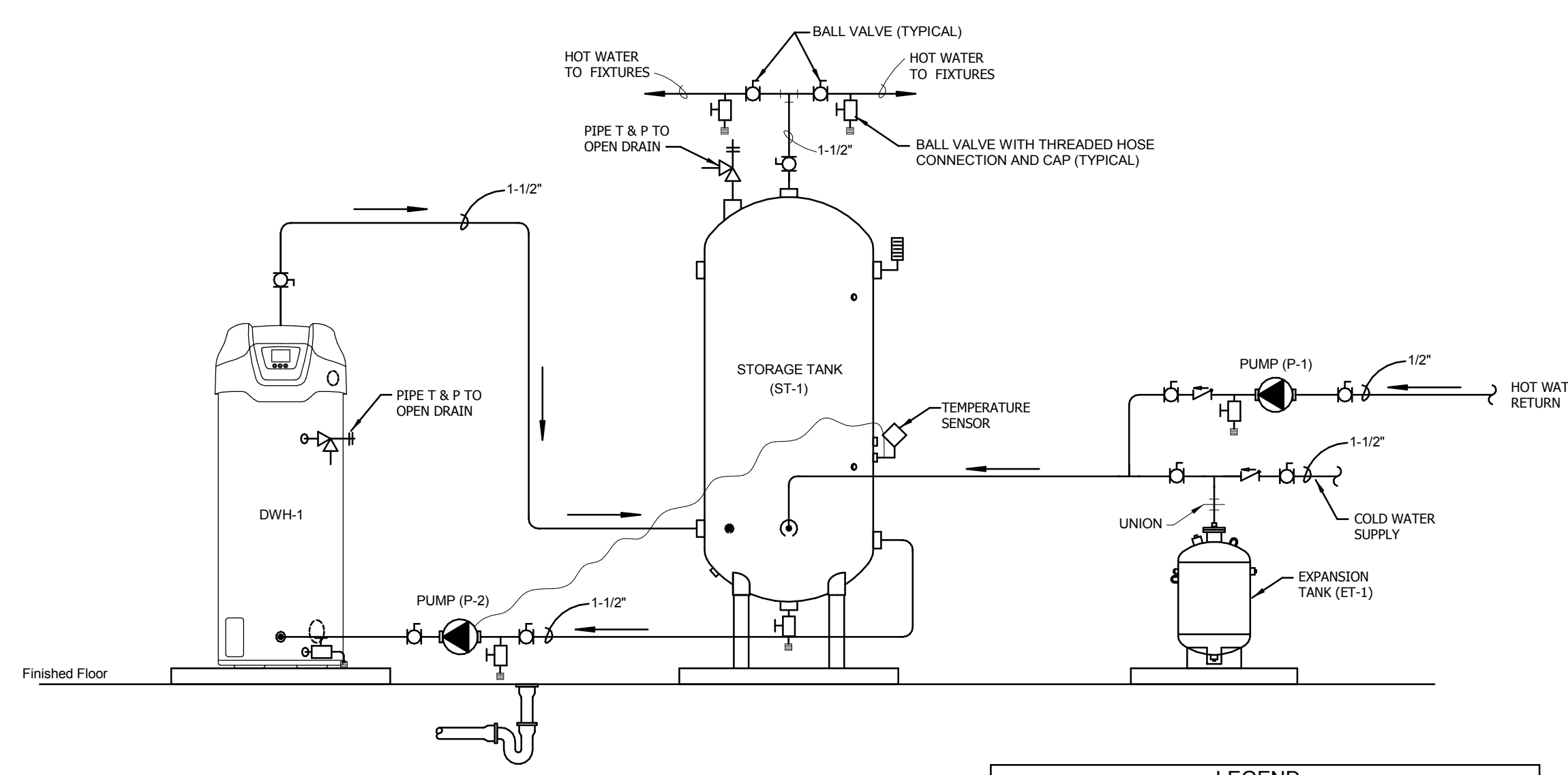
**3 ELEVATOR PIT SUMP PUMP DETAIL**  
NOT TO SCALE



**4 DOUBLE EXTERIOR CLEANOUT DETAIL**  
NOT TO SCALE

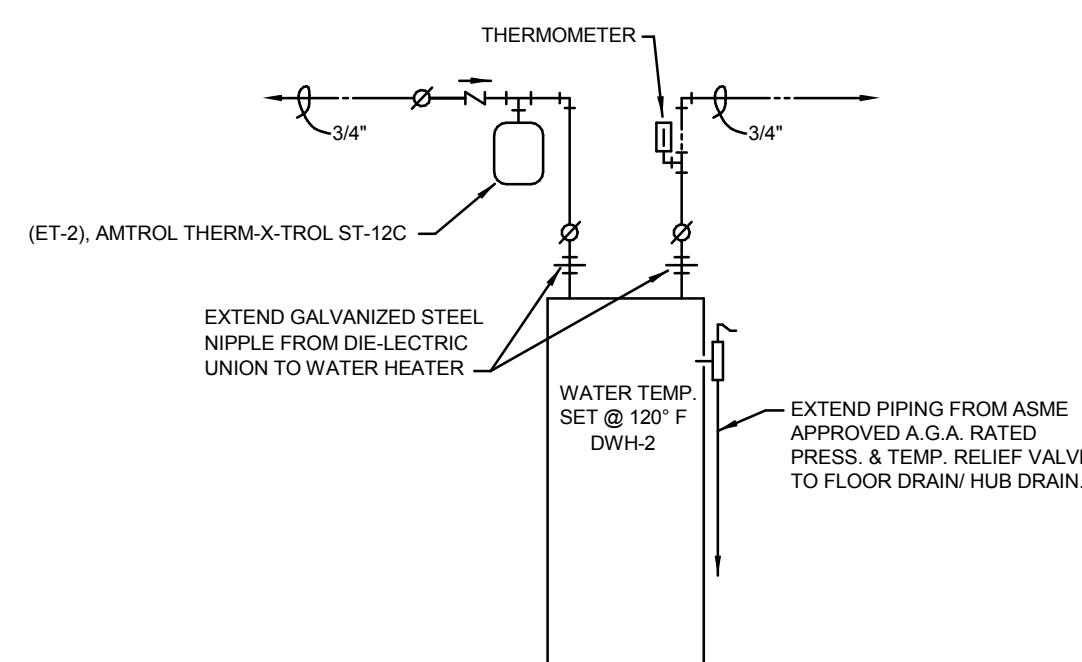


**5 THREE COMPARTMENT SINK DETAIL**  
NOT TO SCALE



**NOTES:**  
1. THE TEMPERATURE AND PRESSURE RELIEF VALVE SETTING SHALL NOT EXCEED PRESSURE RATING OF ANY COMPONENT IN THE SYSTEM.  
2. SERVICE VALVES ARE SHOWN FOR SERVICING UNIT.  
3. THE TEMPERATURE CONTROL CONTRACTOR WILL PROVIDE AND INSTALL CONTROLS FOR THIS SYSTEM.  
4. THE WATER HEATERS OPERATING THERMOSTAT SHOULD BE SET 5 DEGREES F HIGHER THAN THE TANK TEMPERATURE CONTROL.

LEGEND		



**7 (DWH-2) DOMESTIC WATER HEATER DETAIL**  
NOT TO SCALE

**PLUMBING SYMBOLS**

	NOTE REFERENCE
	KITCHEN EQUIPMENT TAG
	DETAIL IDENTIFICATION, DETAIL NUMBER, SHEET NUMBER
	SECTION IDENTIFICATION, SECTION NUMBER, SHEET NUMBER
	ELECTRIC PANEL
	PIPING ABOVE FLOOR OR ABOVE GROUND, SYMBOL INDICATES TYPE OF SERVICE
	PIPING BELOW FLOOR OR UNDER GROUND, SYMBOL INDICATES TYPE OF SERVICE
	SOIL AND WASTE PIPING ABOVE GRADE
	SOIL AND WASTE PIPING BELOW GRADE
	RAINWATER PIPING
	OVERFLOW RAINWATER PIPING
	VENT PIPING ON PLUMBING RISER
	DOMESTIC COLD WATER PIPING
	DOMESTIC HOT WATER PIPING
	HOT WATER CIRCULATING PIPING
	GAS PIPING
	HUMIDITY DRAIN PIPING
	ELBOW DOWN AND ELBOW UP
	TEE DOWN AND TEE UP
	BALL VALVE
	VALVE IN VERTICAL PIPING
	PIPING STRAINER
	UNION
	CHECK VALVE
	PRESSURE REDUCING AND REGULATING VALVE
	AUTOMATIC FLOW CONTROL VALVE
	GAS METER
	WATER METER
	FLOOR DRAIN
	FLOOR SINK
	ROOF DRAIN
	OVERFLOW ROOF DRAIN
	DOWNSPOUT NOZZLE
	WALL HYDRANT
	HOSE BIBB
	CLEANOUT
	BELOW FLOOR OR UNDER GROUND P-TRAP
	P-TRAP THAT SERVES FIXTURE ON FLOOR ABOVE
	P-TRAP
	PIPE CAP
	PIPE BREAK MARK

**PLUMBING FIXTURE SCHEDULE**

MARK	FUNCTION	MANUFACTURER AND MODEL (OR PRIOR APPROVED EQUAL)	WASTE	VENT	CW	HW	NOTE
CO-1	CLEAN OUT	JAY R. SMITH MODEL 4200 FOR FLOORS, CAST IRON, WITH ROUND ADJUSTABLE NICKEL BRONZE TOP, IF FLOOR IS CARPETED USE TYPE 'A'					SEE PLAN FOR SIZE
CO-2	CLEAN OUT	JAY R. SMITH MODEL 4710 FOR WALLS, STAINLESS STEEL, ROUND, SHALLOW COVER					SEE PLAN FOR SIZE
DW-1	CLOTHES WASHER BOX	GUY GRAY MODEL W800 ROUGH-IN BOX, HOT & COLD VALVES WITH SINGLE LEVER SHUT-OFF AND FITTINGS FOR 2\"/>					

**PUMP SCHEDULE**

**NOTES:**  
1. PUMP TO BE APPROVED FOR POTABLE WATER. PUMP TO HAVE STAINLESS STEEL CONSTRUCTION. PUMP SHALL HAVE 3-SPEED MOTOR.  
2. PUMP TO HAVE ADJUSTABLE ECM MOTOR WITH DISPLAY SHOWING FLOW AND ENERGY CONSUMPTION.  
3. PUMP TO BE INSTALLED IN ELEVATOR PIT.  
4. PROVIDE WITH 18\"/>

MARK	MANUFACTURE R	MODEL #	INLET	OUTLET	GPM	FEET HEAD	MOTOR DATA	SYSTEM SERVED	NOTES
P-1	GRUNDFOS	ALP342-15-55P	-	-	2	7	FRACTIONAL 120 VOLT 1 PH	DOMESTIC HOT WATER RECIRCULATION	1, 2, 7
P-2	GRUNDFOS	UP28-96PF	-	-	20	8	FRACTIONAL 120 VOLT 1 PH	HOT WATER STORAGE TANK RECIRCULATION	1, 7
SP-1	HYDROMATIC	SHF30	-	2"	50	32	1/2 120 VOLT 1 PH	ELEVATOR PIT SUMP PUMP	3, 4, 5, 6

**PLUMBING EQUIPMENT SCHEDULE**

MARK	FUNCTION	MANUFACTURER AND MODEL (OR PRIOR APPROVED EQUAL)
DWH-1	DOMESTIC HOT WATER HEATER	199 MBH INPUT ON NATURAL GAS, 100 GALLON STORAGE CAPACITY, 24 GPH RECOVERY AT 80°F TEMPERATURE RISE, 90% THERMAL EFFICIENCY, 120 V POWER, A.O. SMITH 1M
DWH-2	DOMESTIC HOT WATER HEATER	140 GAL STORAGE 55 GAL FIRST HOUR RATING, 20 G GAL HOUR RECOVERY @ 10°F, 205V/1PH, 1400 WATT ELEMENT, NON-SIMULTANEOUS OPERATION, A.O. SMITH-PROLINE STANDARD COMMERCIAL-GRADE RESIDENTIAL WATER HEATER MODEL ENT-40
ET-1	EXPANSION TANK	DUTY BUTY NSF/AANSI81 RATED DIAPHRAGM, POLYPROPYLENE LINER, AIR VALVE, AMTRC/THERMAX, TROL. MODEL ST-20VC, 200 GALLON STORAGE TANK, CORROSION PROTECTION LINING, INSULATED JACKET, A.O. SMITH TJV-250A
ST-1	HOT WATER STORAGE TANK	200 GALLON STORAGE TANK, CORROSION PROTECTION LINING, INSULATED JACKET, A.O. SMITH TJV-250A

**WATER HAMMER ARRESTOR SCHEDULE**

**NOTES:**  
1. WATER HAMMER ARRESTORS SHALL BE SIZED AND INSTALLED PER THE PLUMBING DRAINAGE INSTITUTE (STANDARD PDI-WH 201) REQUIREMENTS.  
2. WATER HAMMER ARRESTORS SHALL BE CERTIFIED BY THE AMERICAN SOCIETY OF SANITARY ENGINEERING TO ANSIA/ASSE 1010-2004.  
3. WATER HAMMER ARRESTORS SHALL BE APPROVED OF INSTALLATION WITH NOW ACCESS PANEL REQUIRED.

TYPE	FIXTURE UNIT RATING	I.P.S.	SIoux CHEF OR APPROVED EQUAL	NOTES
WHA-B	12-32	1"	650-D	1, 2, 3
WHA-C	33-60	1"	654-C	1, 2, 3
WHA-D	61-113	1"	655-D	1, 2, 3



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ETI Project No: 2018-113

HSR Project Number:

18005

Project Date:

NOVEMBER 2018

Drawn By:

TJM

Key Plan:

No.	Description	Date
A3	ADDENDUM #3	11.20.2018

Graphic Scale: VARIES

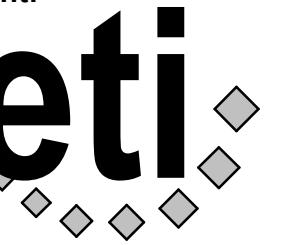
Last Update: 11/20/2018 8:57:13 AM





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P 402.330.2772 | F 402.330.2630  
ETI Project No: 2018-113

Project Title: **GLENWOOD COMMUNITY SCHOOL DISTRICT  
ATHLETIC COMPLEX IMPROVEMENTS - BID PKG. #2 -  
REBID**

Project Location: 400 SIVERS RD,  
GLENWOOD, IA 51534

Sheet Title: **PLUMBING & GAS RISERS**

HSR Project Number:

18005

Project Date:

NOVEMBER 2018

Drawn By:

TJM

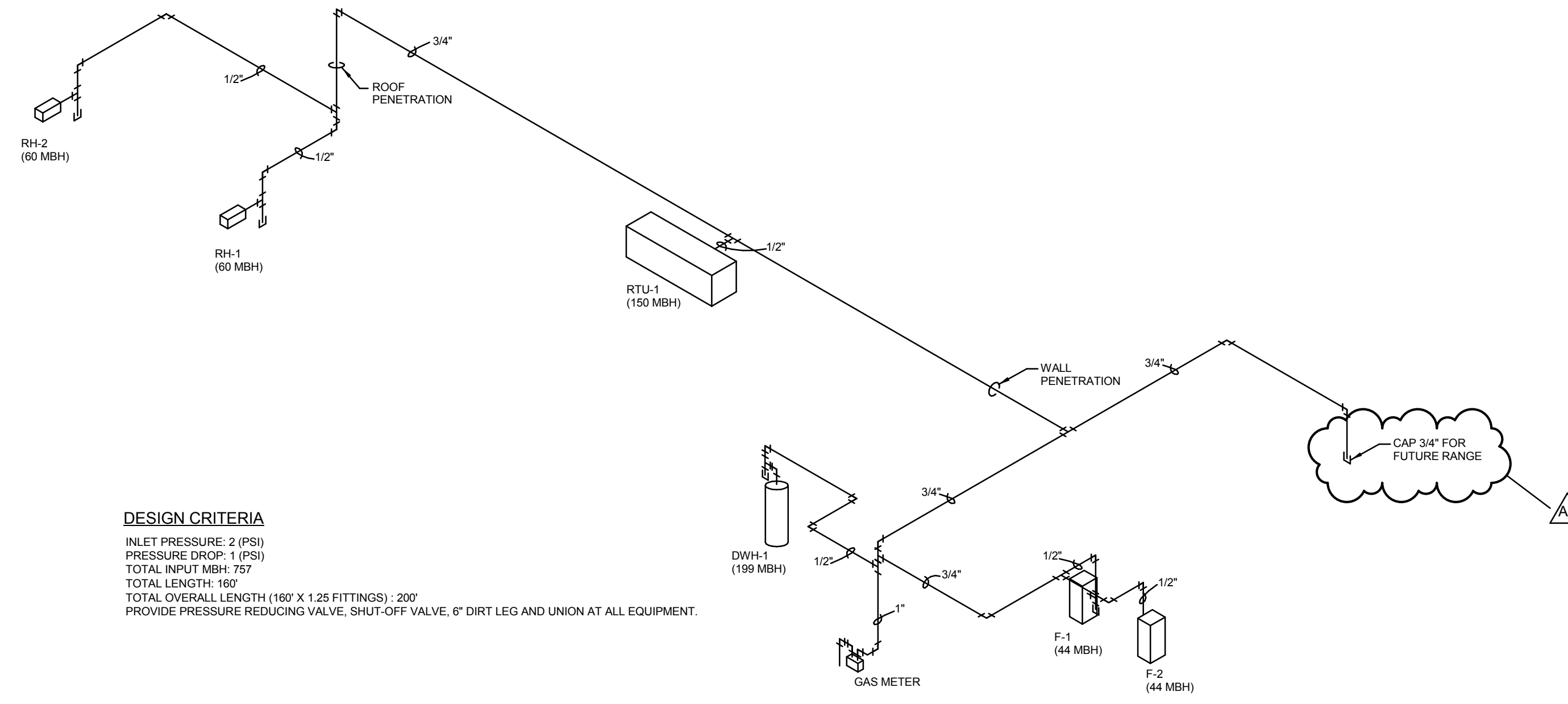
Key Plan:

No.	Description	Date
A2	ADDENDUM #2	11.08.2018
A3	ADDENDUM #3	11.20.2018

Graphic Scale: **VARIES**

Last Update: **11/20/2018 8:58:14 AM**

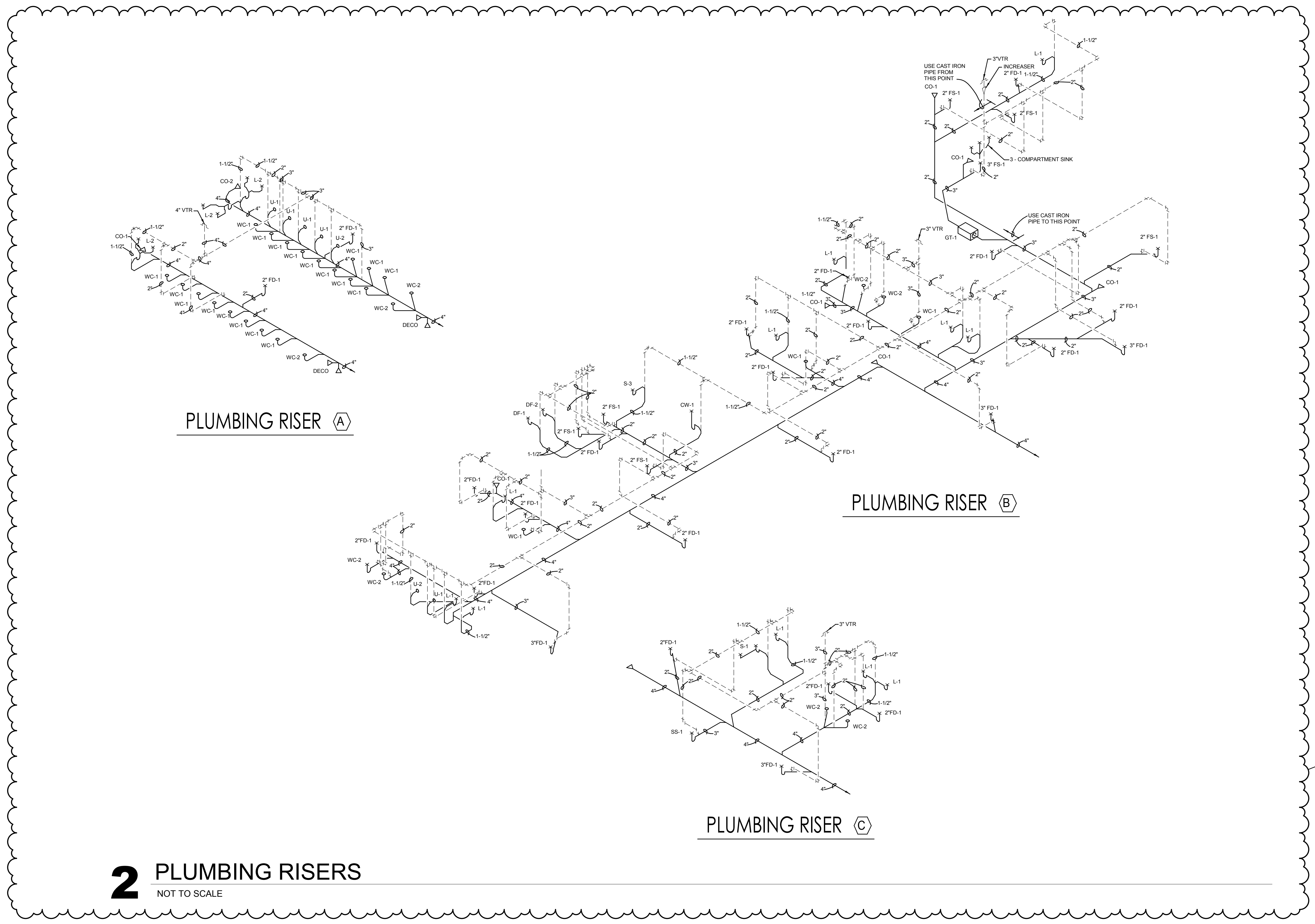
**P104R**



**DESIGN CRITERIA**  
INLET PRESSURE: 2 (PSI)  
PRESSURE DROP: 1 (PSI)  
TOTAL INLET MBH: 707  
TOTAL LENGTH: 160'  
TOTAL OVERALL LENGTH (160' X 1.25 FITTINGS): 200'  
PROVIDE PRESSURE REDUCING VALVE, SHUT-OFF VALVE, 6\"/>

# 1 GAS RISER

NOT TO SCALE



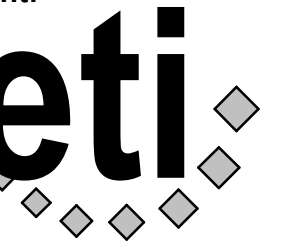
# 2 PLUMBING RISERS

NOT TO SCALE



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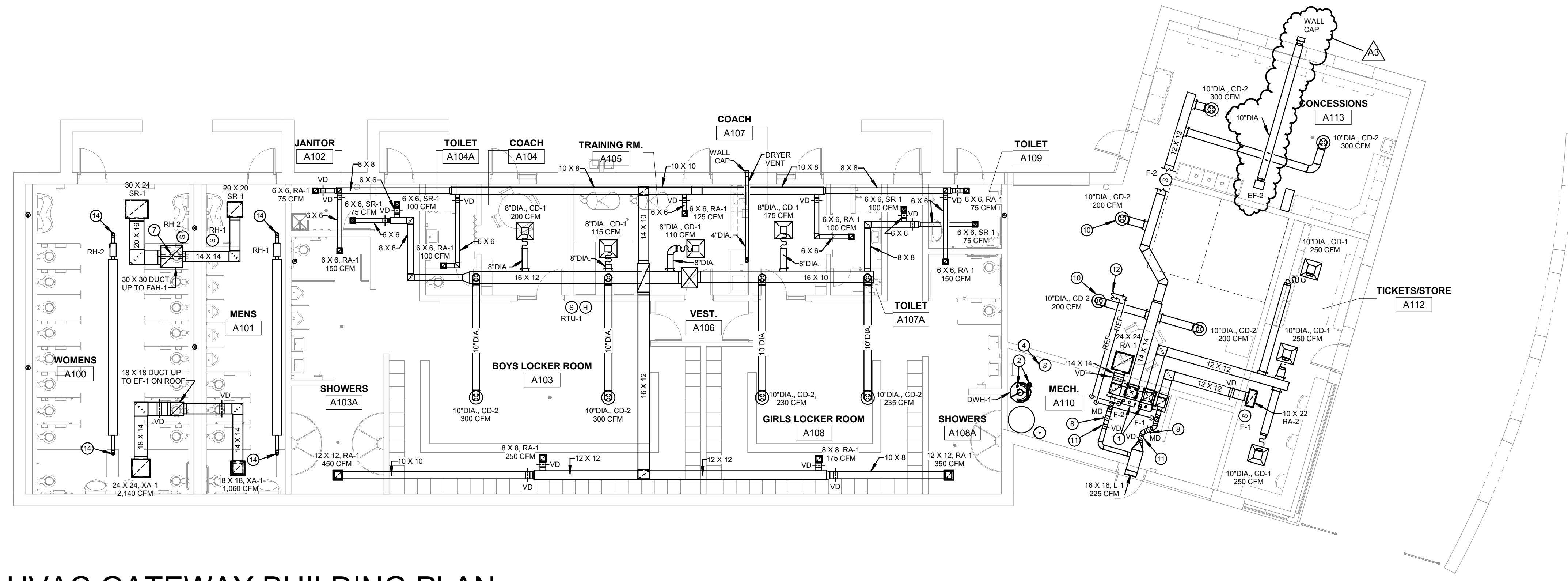
Consultant:



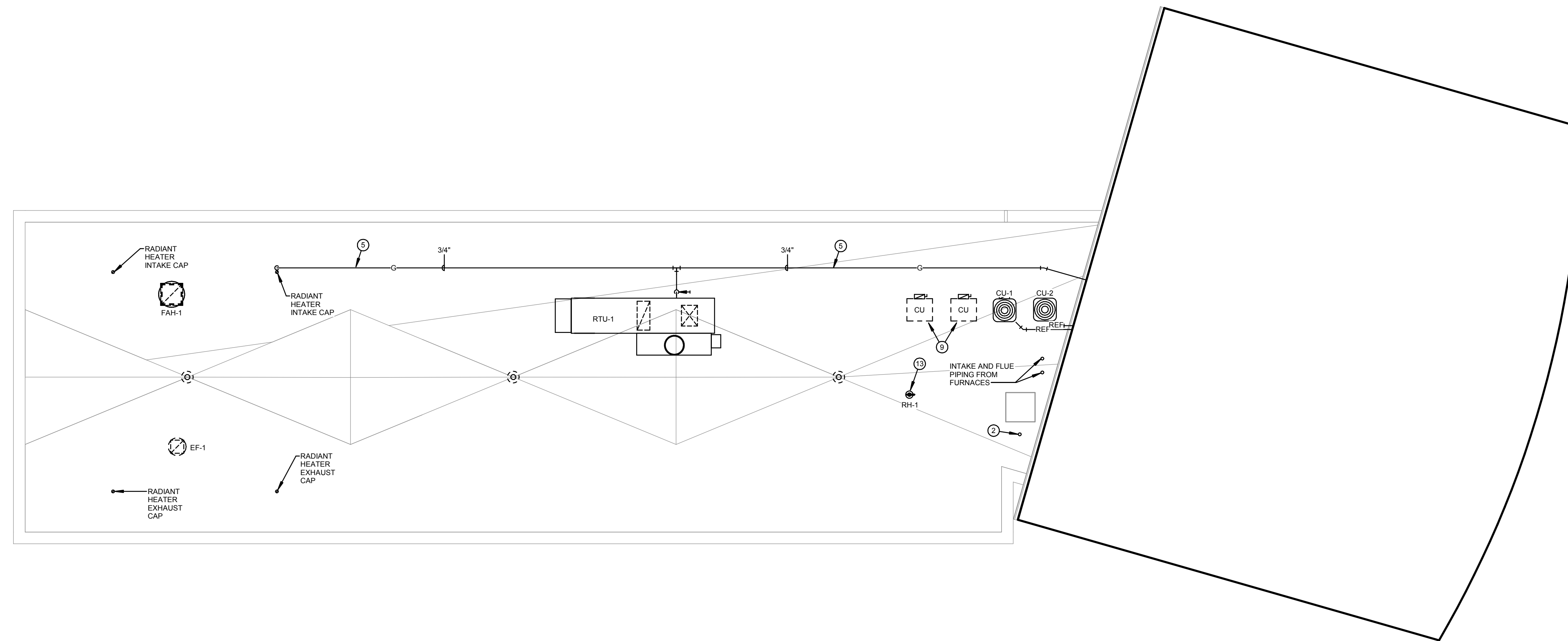
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ETI Project No: 2018-113

GENERAL NOTES

- A DUCTWORK IN SHOWERS AND LOCKER ROOMS SHALL BE ALUMINUM OR STAINLESS STEEL.
  - B MECHANICAL EQUIPMENT ON THE ROOF SHALL BE A MINIMUM 10'-0" FROM THE ROOF EDGE.
- SHEET NOTES
- 1 INTAKE AND FLUE PIPING UP THROUGH ROOF BY HVAC CONTRACTOR. SEE MANUFACTURER FOR PIPING REQUIREMENTS AND RECOMMENDATIONS.
  - 2 INTAKE AND FLUE PIPING FROM DWH-1 THROUGH ROOF BY PLUMBING CONTRACTOR. SEE MANUFACTURER FOR PIPING REQUIREMENTS AND RECOMMENDATIONS.
  - 4 TEMPERATURE SENSOR FOR ELECTRIC HEAT ARE PROVIDED AND INSTALLED BY TEMPERATURE CONTROL CONTRACTOR. ELECTRIC HEATERS IS PROVIDED AND INSTALLED BY ELECTRICAL CONTRACTOR.
  - 5 GAS PIPING BY PLUMBING CONTRACTOR.
  - 7 MOTORIZED DAMPER TO OPEN WHEN EXHAUST FAN IS OPERATING. MOTORIZED DAMPER TO CLOSE WHEN EXHAUST FAN SHUTS DOWN.
  - 8 MOTORIZED DAMPER TO OPEN WHEN FURNACE BLOWER IS ON AND CLOSE WHEN FURNACE BLOWER IS OFF.
  - 9 WALK IN COOLER AND FREEZER CONTRACTOR TO PROVIDE CONDENSING UNITS AND REFRIGERANT PIPING. CONDENSING UNITS TO MEET ALL CLEARANCE REQUIREMENTS INCLUDING 10' FROM EDGE CLEARANCE.
  - 10 INSTALL BOTTOM OF CEILING DIFFUSER BELOW BEAM.
  - 11 EXTEND 8" DIA. FRESH AIR DUCT TO FURNACE F-1 AND BALANCE TO 75 CFM. EXTEND 10" DIA. FRESH AIR DUCT TO FURNACE F-2 AND BALANCE TO 150 CFM.
  - 12 FOR CONTINUATION OF REFRIGERANT PIPE SEE ROOF PLAN ON THIS SHEET.
  - 13 ROOF HYDRANT BY PLUMBING CONTRACTOR.
  - 14 RADIANT HEATER INLET AND EXHAUST THROUGH ROOF.



**1** HVAC GATEWAY BUILDING PLAN  
1/8" = 1'-0"



**2** HVAC GATEWAY ROOF PLAN  
1/8" = 1'-0"

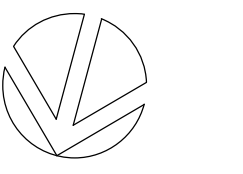
Project Title: **GLENWOOD COMMUNITY SCHOOL DISTRICT  
ATHLETIC COMPLEX IMPROVEMENTS - BID PKG. #2 -  
REBID**  
 Project Location: 400 SIVERS RD.  
GLENWOOD, IA 51534  
 Sheet Title: **GATEWAY BUILDING HVAC PLAN**

HSR Project Number:  
**18005**

Project Date:  
**NOVEMBER 2018**

Drawn By:  
**TJM**

Key Plan:



TRUE NORTH

No.	Description	Date
A3	ADDENDUM #3	11.20.2018

Graphic Scale:  
**VARIES**

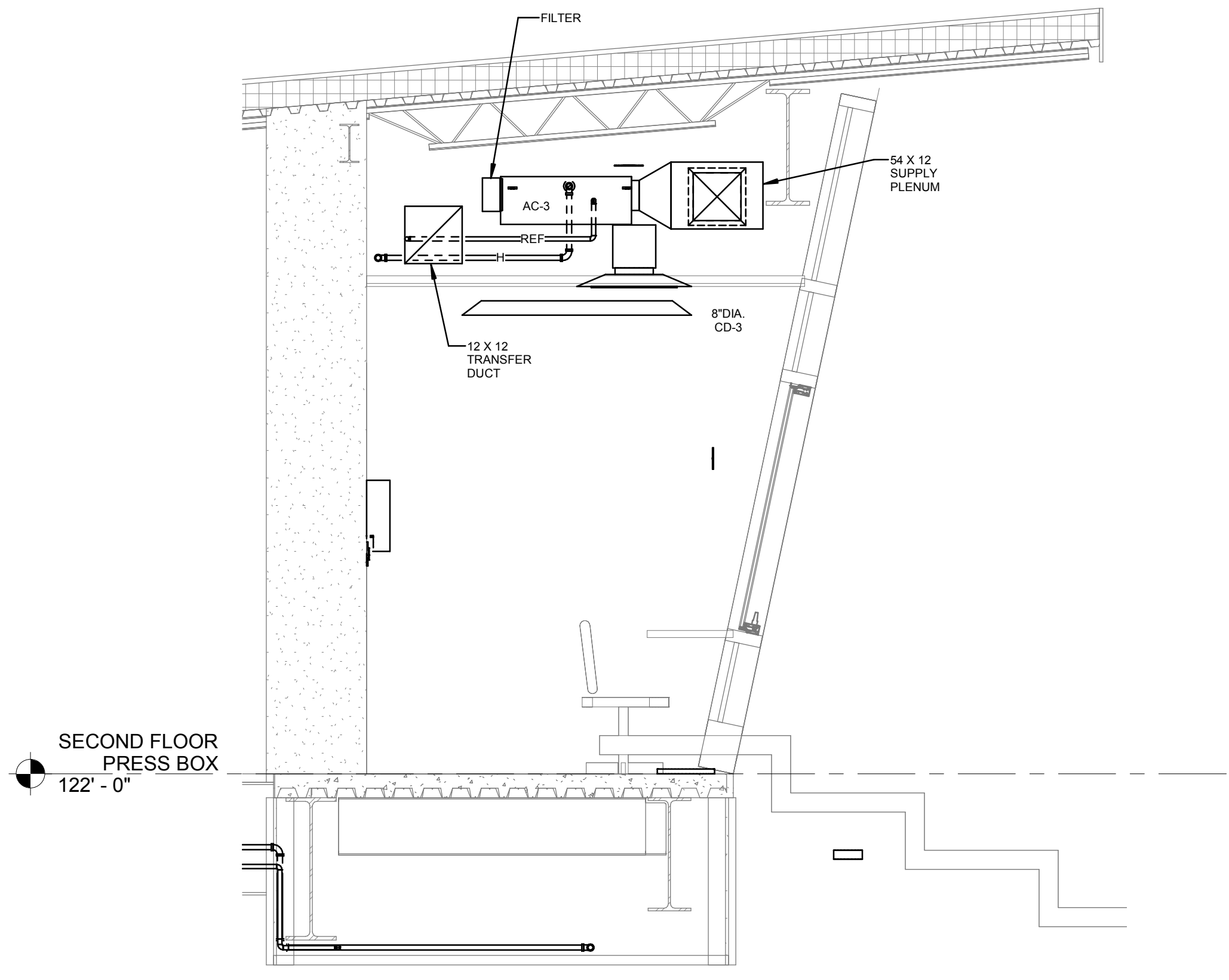
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**11/20/2018 8:43:14 AM**

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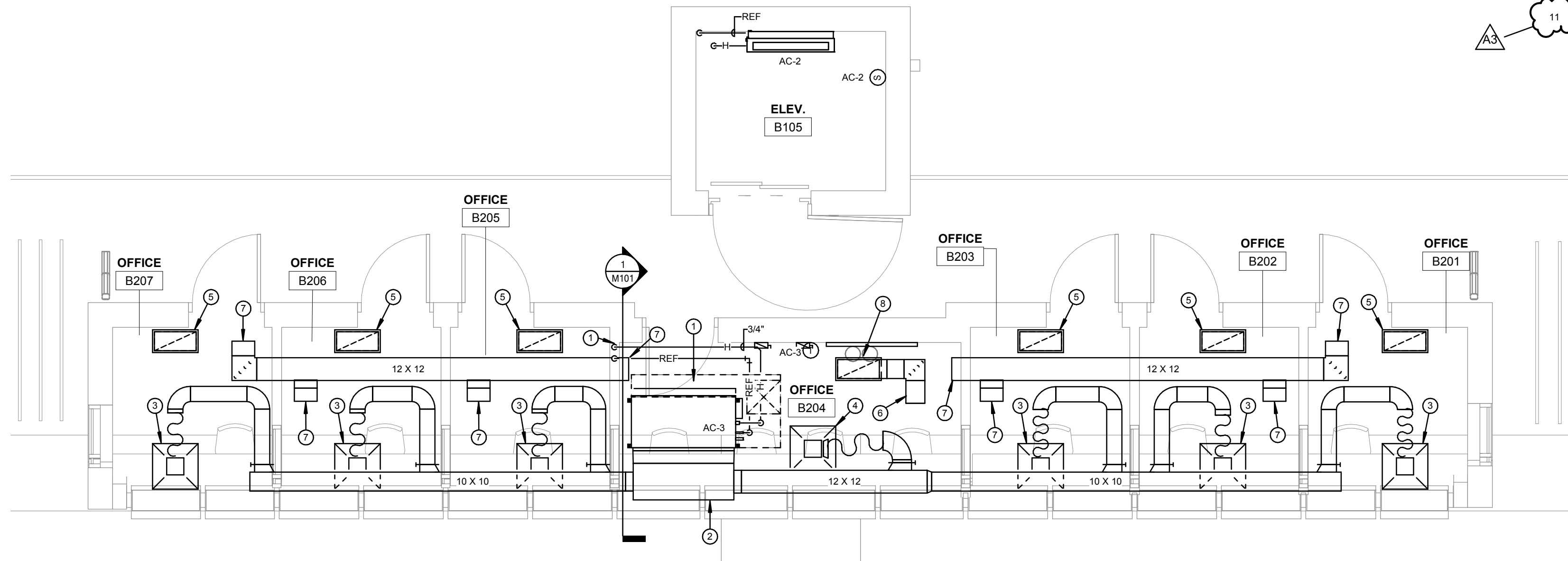


**SHEET NOTES**

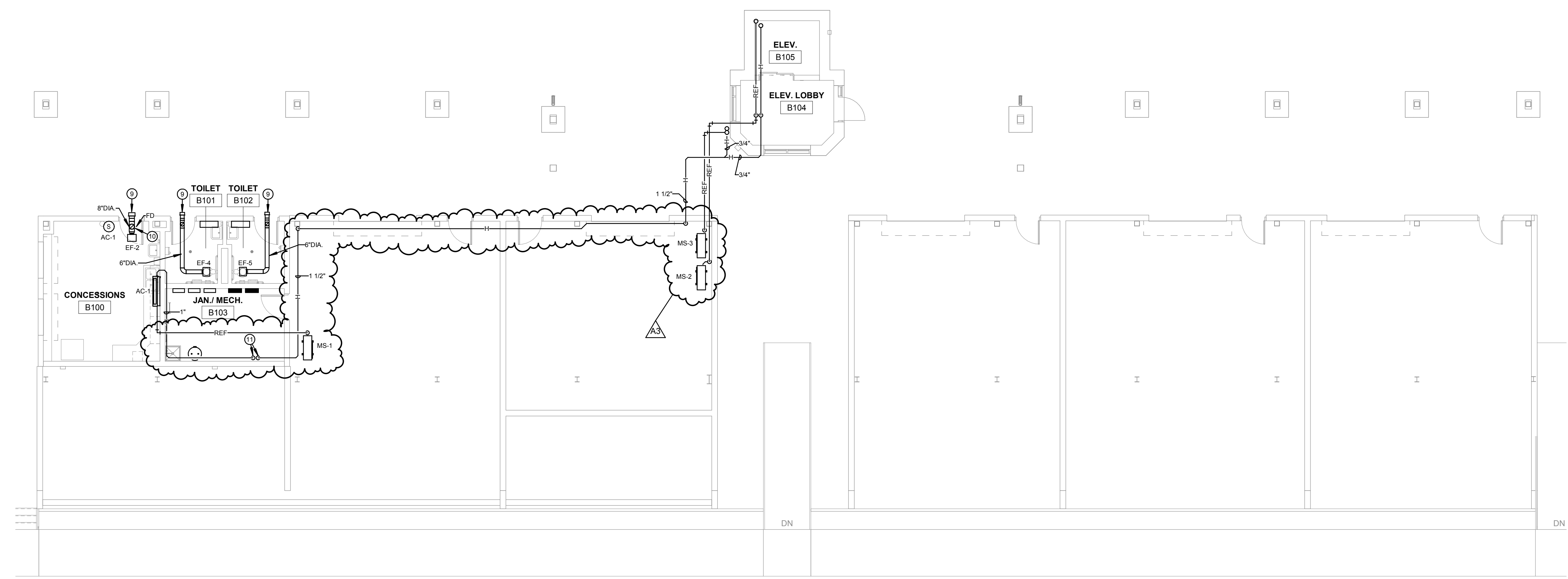
- 1 INSTALL AC-3 ABOVE CEILING. PROVIDE CLEARANCE FOR ACCESS TO UNIT AND FILTER. EXTEND REFRIGERANT PIPING AND HUMIDITY DRAIN PIPING FROM UNIT TO LOCATION SHOWN EXTENDING DOWN WALL.
- 2 54 X 12 SUPPLY AIR PLENUM.
- 3 10 X 10 (CD-3) WITH 10 X 10 X 16 REGAIN BOX, BALANCE TO 150 CFM. REGAIN BOX SHALL BE INSULATED WITH 1/2" DUCT LINER. EXTEND 1" DIA. DUCT AS SHOWN.
- 4 14 X 14 (CD-3) WITH 14 X 14 X 16 REGAIN BOX, BALANCE TO 300 CFM. REGAIN BOX SHALL BE INSULATED WITH 1/2" DUCT LINER. EXTEND 1" DIA. DUCT AS SHOWN.
- 5 24 X 12 (RA-2) OPEN TO CEILING SPACE ABOVE.
- 6 RETURN AIR TRANSFER DUCT OPEN TO ABOVE CEILING. PLENUM DUCT SHALL BE INSULATED WITH 1/2" DUCT LINER.
- 7 12 X 12 OPENING TO PLENUM ABOVE CEILING.
- 8 24 X 12 (RA-2) PROVIDE 10 X 14 TRANSFER DUCT. TRANSFER DUCT SHALL BE INSULATED WITH 1/2" DUCT LINER.
- 9 EXHAUST WALL CAP TO BE INSTALLED AS HIGH AS POSSIBLE.
- 10 FIRE DAMPER TO BE INSTALLED IN DUCT PENETRATION THROUGH ROOF.
- 11 EXTEND HUMIDITY DRAIN DOWN TO ABOVE FLOOR DRAIN.



**1** PRESS BOX HVAC SECTION  
1/2" = 1'-0"



**2** HVAC PRESS BOX STADIUM BUILDING  
1/4" = 1'-0"



**3** HVAC FIRST FLOOR STADIUM BUILDING  
1/8" = 1'-0"

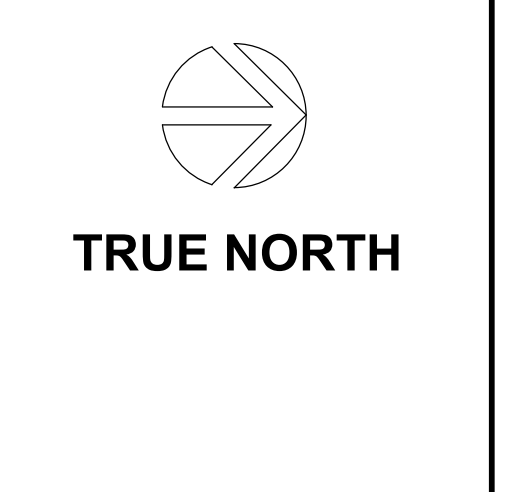
Project Title: **GLENWOOD COMMUNITY SCHOOL DISTRICT ATHLETIC COMPLEX IMPROVEMENTS - BID PKG. #2 - REBID**  
 Project Location: 400 SIVERS RD. GLENWOOD, IA 51534  
 Sheet Title: **STADIUM BUILDING HVAC PLAN**

HSR Project Number: **18005**

Project Date: **NOVEMBER 2018**

Drawn By: **TJM**

Key Plan:



No.	Description	Date
A3	ADDENDUM #3	11.20.2018

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Last Update: **11/20/2018 8:46:20 AM**

**M101R**





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ETI Project No: 2018-113

**GLENWOOD COMMUNITY SCHOOL DISTRICT  
ATHLETIC COMPLEX IMPROVEMENTS - BID PKG. #2 -  
REBID**  
Project Location: 400 SIVERS RD,  
GLENWOOD, IA 51534  
ELECTRICAL SITE PLAN

Project Title:  
HSR Project Number:  
18005

Project Date:  
NOVEMBER 2018

Drawn By:  
SMH

Key Plan:

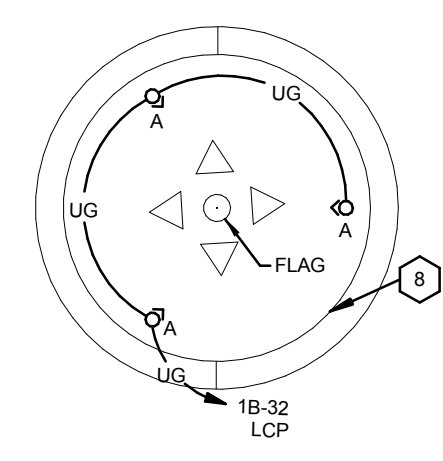
Revisions:

No.	Description	Date
A3	ADDENDUM #3	11.20.2018

Graphic Scale:  
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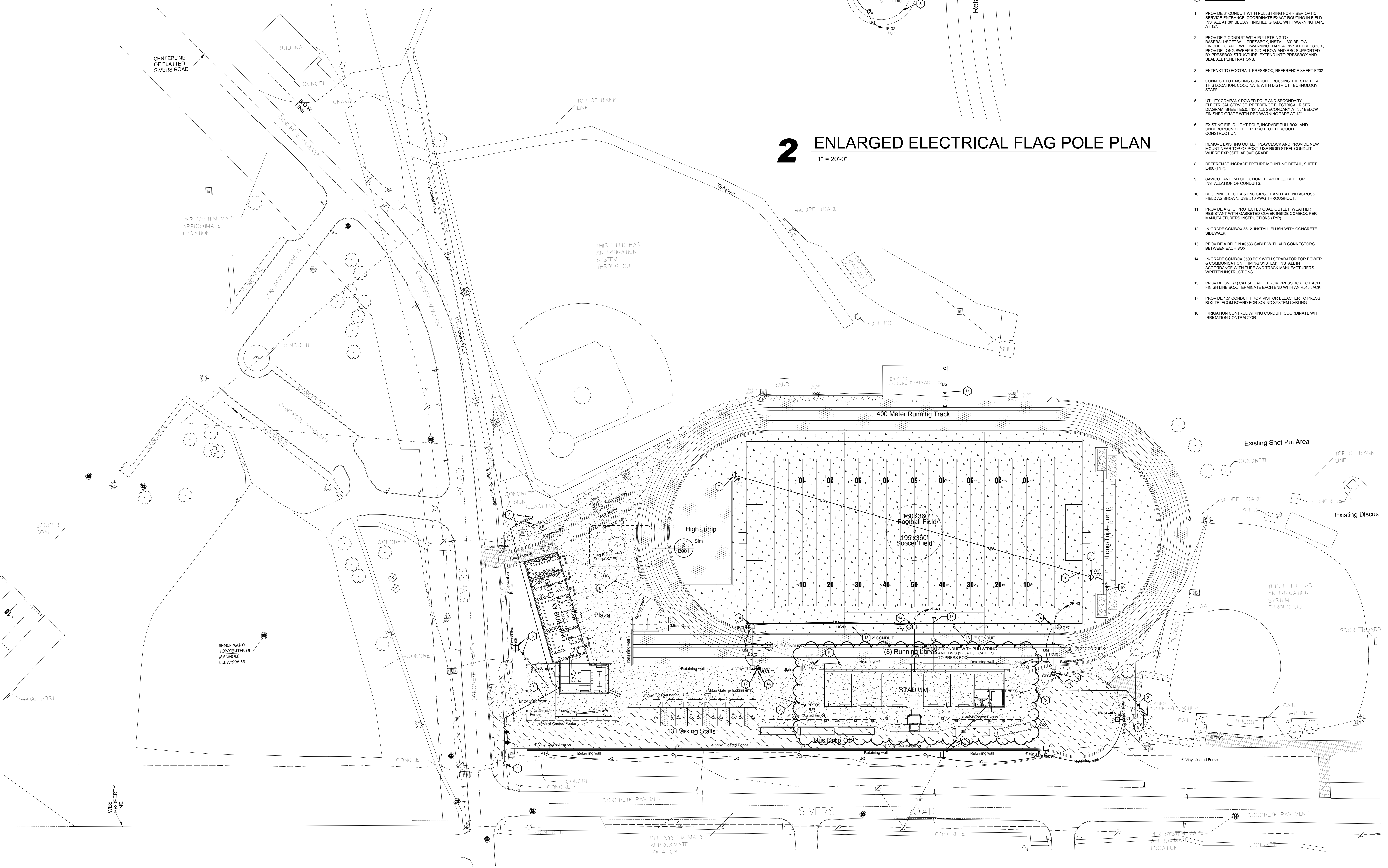
**E001R**

New Flagpole  
Dedication Area

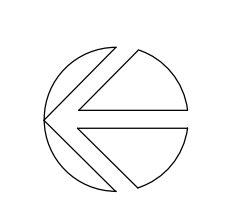


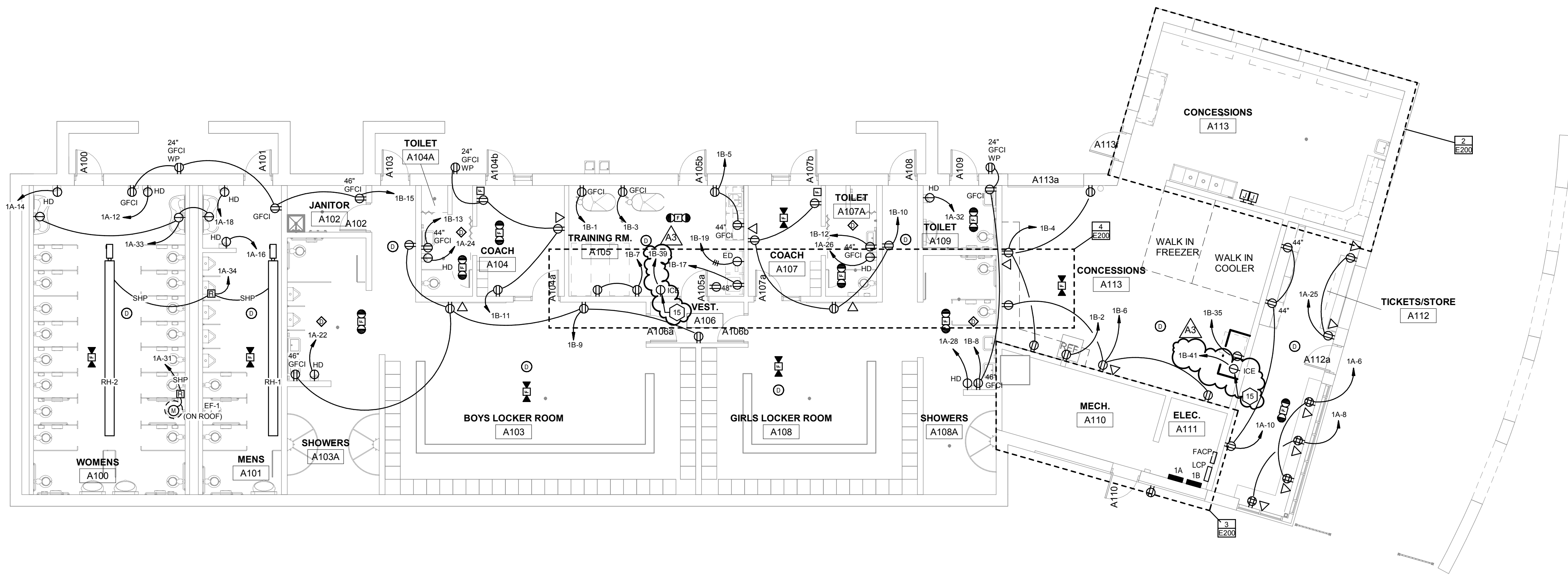
Retaining wall

**2 ENLARGED ELECTRICAL FLAG POLE PLAN**  
1" = 20'-0"

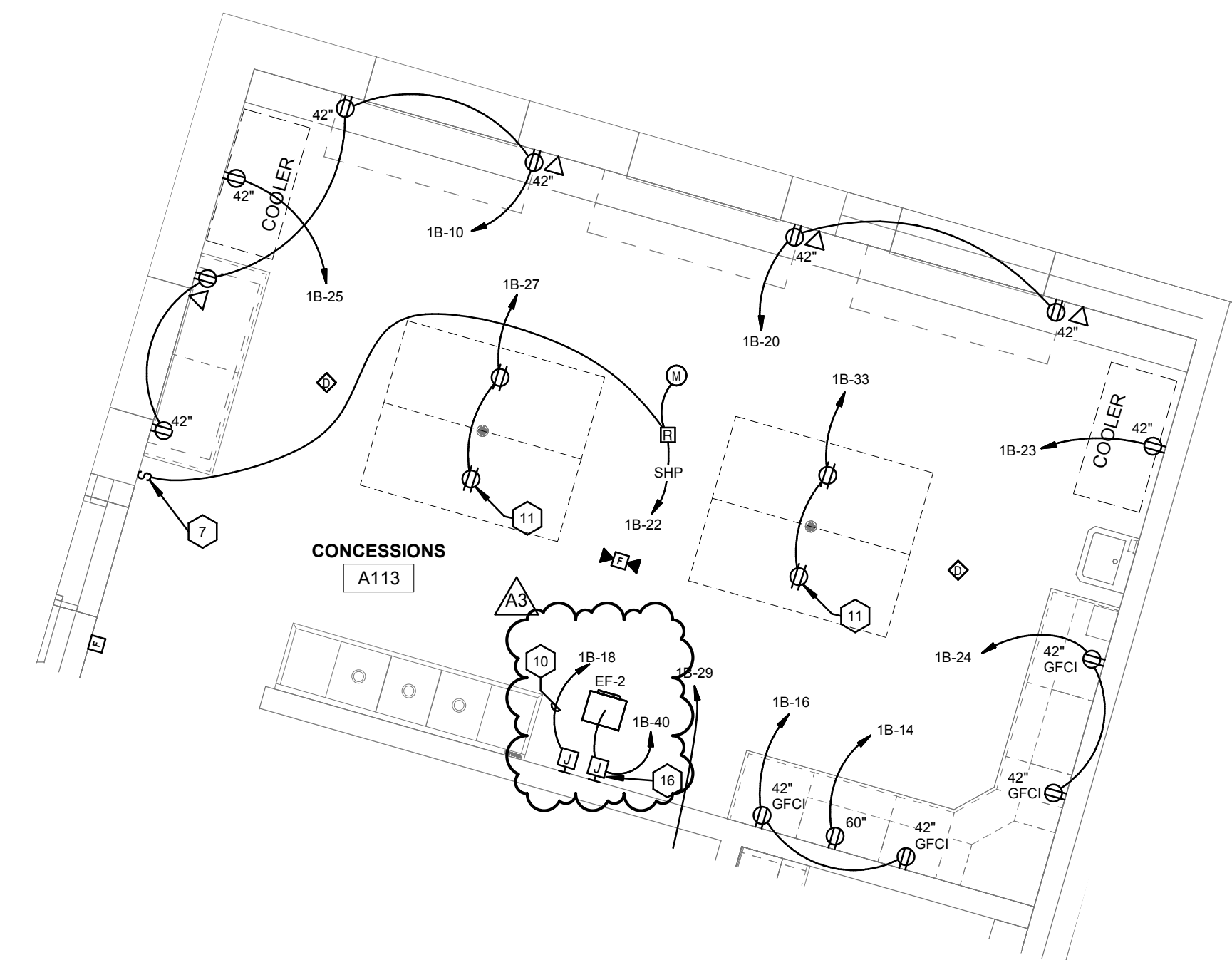
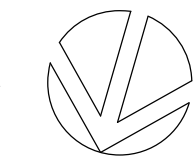


**1 ELECTRICAL SITE PLAN**  
1" = 40'-0"

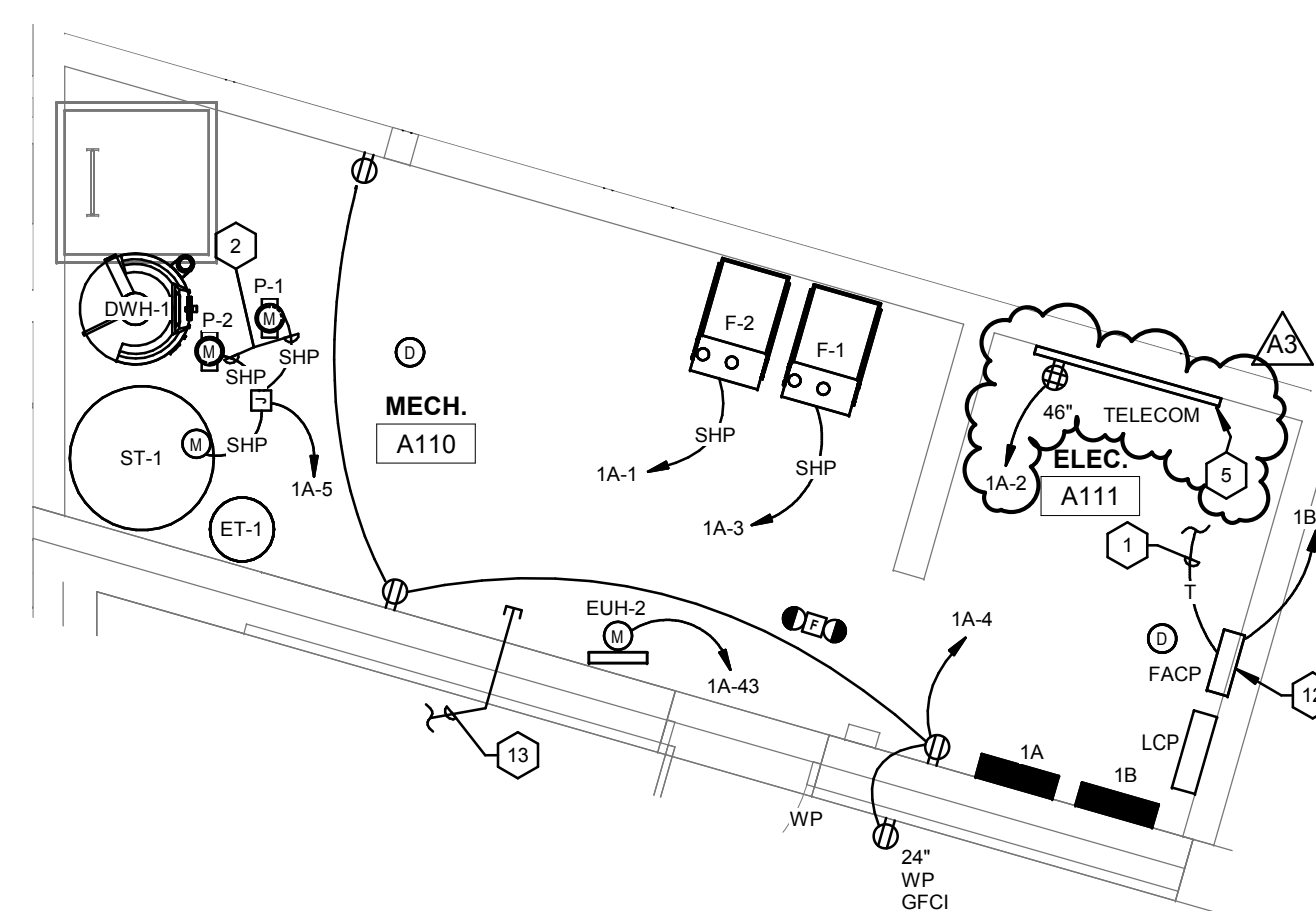




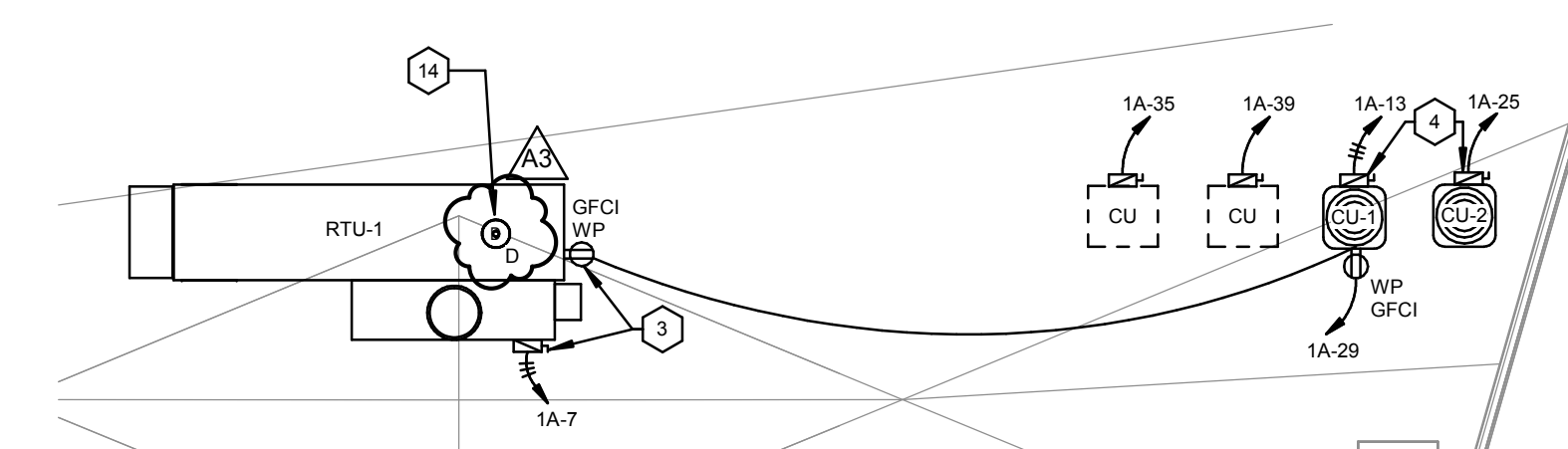
**1** FIRST FLOOR POWER PLAN  
1/8" = 1'-0"



**2** CONCESSIONS ENLARGED POWER PLAN  
1/4" = 1'-0"



**3** MECH A110 ENLARGED POWER PLAN  
1/4" = 1'-0"



**4** ELECTRICAL ROOF PLAN  
1/8" = 1'-0"

**GENERAL NOTES**

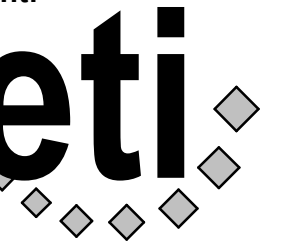
- A PROVIDE TEMPORARY POWER, LIGHTING, AND HEATING AS REQUIRED FOR CONSTRUCTION. COORDINATE WITH THE GENERAL CONTRACTOR AND OTHER TRADES.
- B FIRE SEAL ALL PENETRATIONS THROUGH FIRE RATED WALLS, CEILING AND FLOORS.
- C COORDINATE LOCATION OF WIRING DEVICES, TELECOM OUTLETS, FIRE ALARM DEVICES, ETC. WITH MILLWORK, TILE LAYOUT, AND OTHER WALL FINISHES PRIOR TO ROUGH-IN.
- D ALIGN ADJACENT WALL MOUNTED OUTLET BOXES FOR SWITCHES, THERMOSTATS, AND SIMILAR DEVICES. DEVICES SHALL BE ALIGNED VERTICALLY WHEN INSTALLED AT DIFFERING HEIGHTS AND INSTALL ALL ADJACENT DEVICES AT THE SAME HEIGHT TO CENTER. NOTIFY ARCHITECT OF ANY DISCREPANCIES BETWEEN TRADES PRIOR TO ROUGH-IN.

**SHEET NOTES**

- 1 PROVIDE TWO (2) CAT 5 CABLES IN 3/4" CONDUIT TO DEMARK FOR EMERGENCY FORCES NOTIFICATION.
- 2 MOUNT SWITCH AT 48" AFF AND LABEL "CIRCULATING PUMP" AND "TANK PUMP" RESPECTIVELY.
- 3 MOUNT TO ROOF TOP EQUIPMENT. DO NOT BLOCK ACCESS PANELS. ROUTE CONDUIT THROUGH ROOF HOOD.
- 4 PROVIDE UNISTRUT SUPPORTS TO INDEPENDENTLY SUPPORT DISCONNECT SWITCHES AND FREEZERS (TYPICAL ALL CONDENSING UNITS & HEAT PUMPS).
- 5 TELECOM TERMINATION BOARD. PROVIDE 3/4" X 4'-0" X 4'-0" 1/2" WOOD BOARD PAINTED WITH (2) COATS OF GRAY ENAMEL. MOUNT AT 24" AFF TO BOTTOM.
- 7 LABEL "EXHAUST FAN".
- 10 USE #10 AWG THROUGHOUT CIRCUIT.
- 11 PROVIDE PENDANT MOUNTED OUTLET. REFERENCE DETAIL, SHEET 6001.
- 12 FIRE ALARM PANEL. PROVIDE EXTENSION PANEL FROM PRESS BOX FIRE ALARM CONTROL PANEL. WIRING BETWEEN PANELS SHALL BE INSTALLED IN MINIMUM 3/4" CONDUIT.
- 13 PROVIDE A 1" CONDUIT FOR IRRIGATION CONTROL WIRING. FIELD COORDINATE WITH IRRIGATION CONTRACTOR.
- 14 DUCT MOUNTED SMOKE DETECTOR IN SUPPLY AND RETURN DUCT OF ROOF TOP UNIT (RTU). PROVIDE SHUTDOWN RELAY AND CONNECT TO FIRE ALARM SYSTEM AND CONTROL CIRCUIT OF ROOF TOP UNIT.
- 15 FIELD COORDINATE NEMA CONFIGURATION WITH EQUIPMENT SELECTIONS.
- 16 JUNCTION BOX FOR EF-2 SPEED CONTROLLER.



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ETI Project No: 2018-113

Project Title: **GLENWOOD COMMUNITY SCHOOL DISTRICT  
ATHLETIC COMPLEX IMPROVEMENTS - BID PKG. #2 -  
REBID**  
 Project Location: 400 SIVERS RD.  
GLENWOOD, IA 51534  
 Sheet Title: **GATEWAY BUILDING POWER PLAN**

Project Number: **18005**

Project Date: **NOVEMBER 2018**

Drawn By: **SMH**

Key Plan:

Revisions:

No. Description Date

A3 ADDENDUM #3 11.20.2018

Graphic Scale: **VARIES**

Last Update: **11/20/2018 9:09:16 AM**

**E200R**



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ETI Project No: 2018-113

Project Title: **GLENWOOD COMMUNITY SCHOOL DISTRICT  
ATHLETIC COMPLEX IMPROVEMENTS - BID PKG. #2 -  
REBID**  
 Project Location: 400 SIVERS RD,  
GLENWOOD, IA 51534  
 Sheet Title: **FIRST FLOOR STADIUM POWER PLAN**

HSR Project Number:  
**18005**

Project Date:  
**NOVEMBER 2018**

Drawn By:  
**SMH**

Key Plan:



Revisions:		
No.	Description	Date
A3	ADDENDUM #3	11.20.2018

Graphic Scale:  
**VARIES**

Last Update:  
**11/20/2018 9:09:16 AM**

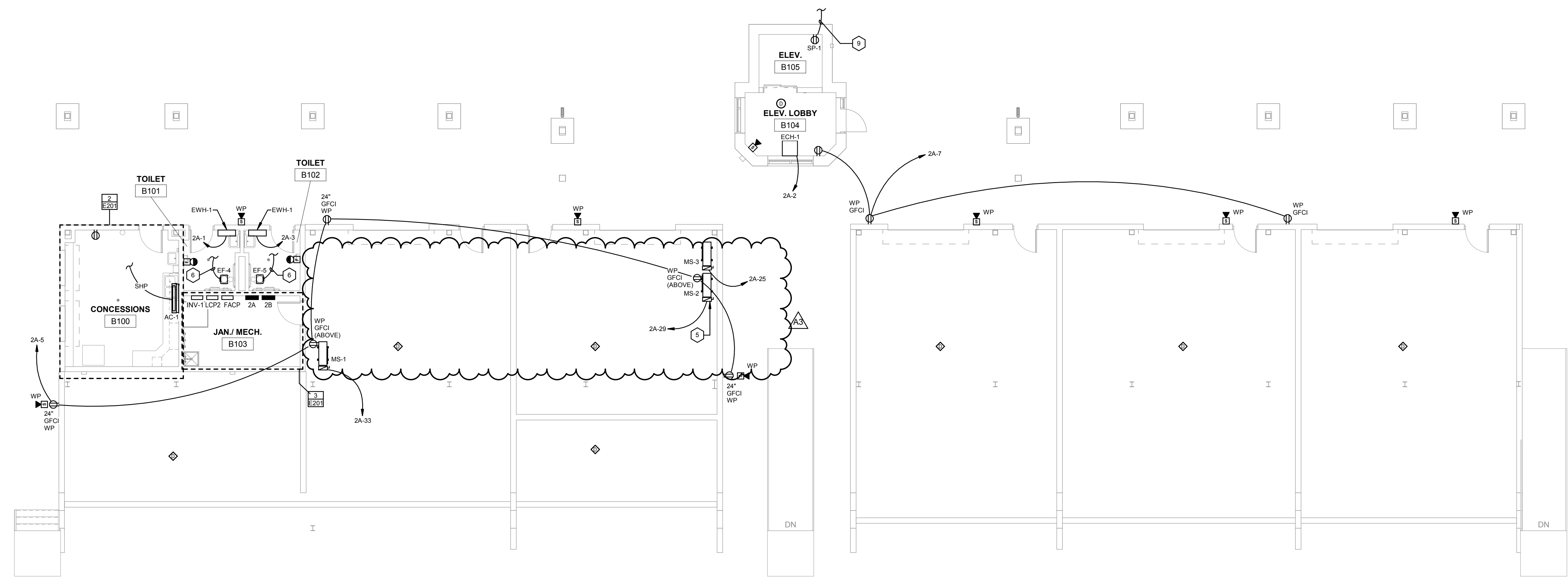
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**GENERAL NOTES**

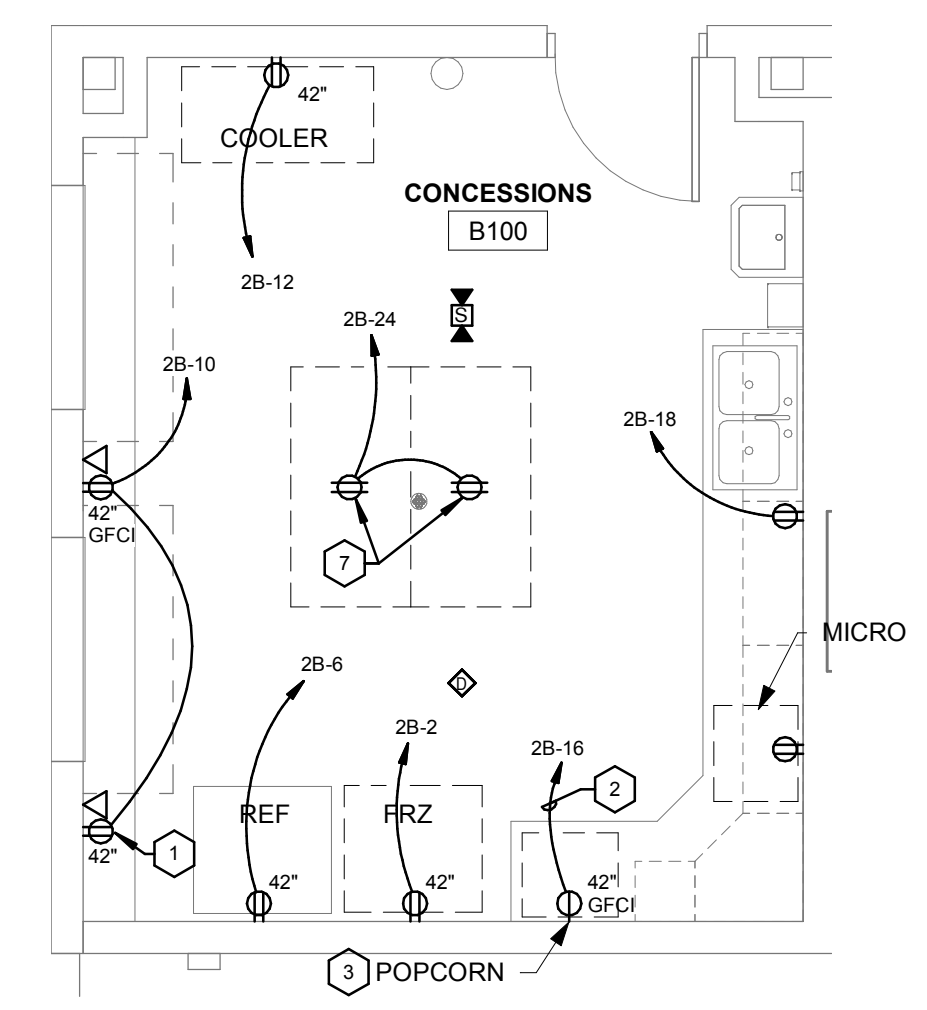
- A PROVIDE TEMPORARY POWER, LIGHTING, AND HEATING AS REQUIRED FOR CONSTRUCTION. COORDINATE WITH THE GENERAL CONTRACTOR AND OTHER TRADES.
- B FIRE SEAL ALL PENETRATIONS THROUGH FIRE RATED WALLS, CEILING AND FLOORS.
- C COORDINATE LOCATION OF WIRING DEVICES, TELECOM OUTLETS, FIRE ALARM DEVICES, ETC. WITH MILLWORK, TILE LAYOUT, AND OTHER WALL FINISHES PRIOR TO ROUGH-IN.
- D ALIGN ADJACENT WALL MOUNTED OUTLET BOXES FOR SWITCHES, THERMOSTATS, AND SIMILAR DEVICES. DEVICES SHALL BE ALIGNED VERTICALLY WHEN INSTALLED AT DIFFERING HEIGHTS AND INSTALL ALL ADJACENT DEVICES AT THE SAME HEIGHT TO CENTER. NOTIFY ARCHITECT OF ANY DISCREPANCIES BETWEEN TRADES PRIOR TO ROUGH-IN.

**SHEET NOTES**

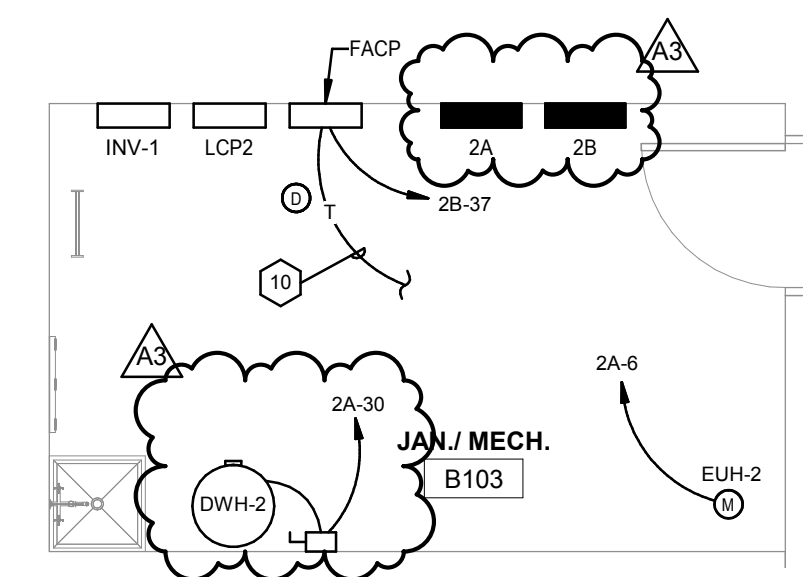
- 1 OUTLET PROTECTED BY UPSTREAM GFCI DEVICE. LABEL "GFCI PROTECTED".
- 2 USE #10 AWG THROUGHOUT CIRCUIT.
- 3 POPCORN MACHINE OUTLET, COORDINATE NEMA CONFIGURATION.
- 5 PROVIDE UNISTRUT SUPPORTS TO INDEPENDENTLY SUPPORT DISCONNECT SWITCHES AND RECEPTACLES. (TYPICAL ALL CONDENSING UNITS & HEAT PUMPS).
- 6 CONNECT TO LIGHTING CIRCUIT SERVING THIS AREA. EXHAUST FAN SHALL ENERGIZE WITH LIGHTING.
- 7 PROVIDE PENDANT MOUNTED OUTLET. REFERENCE DETAIL, SHEET E400.
- 9 SUMP PUMP CONTROLLER, CONNECT OUTLET IN PIT THROUGH CONTROLLER AND PROVIDE 1" CONDUIT WITH PULL WIRE FOR CONTROL CABLEING TO PIT, PER MANUFACTURER'S INSTRUCTIONS.
- 10 PROVIDE TWO (2) CAT 5 CABLES IN 3/4" CONDUIT TO DEMO IN PRESS BOX.
- 11 PROVIDE A 1" CONDUIT TO FOOTBALL FIELD FOR IRRIGATION CONTROL WIRING. FIELD COORDINATE.



**1** FIRST FLOOR STADIUM POWER PLAN  
1/8" = 1'-0"



**2** CONCESSIONS B100 ENLARGED POWER PLAN  
1/4" = 1'-0"



**3** ENLARGED JANITOR B103 PLAN  
1/4" = 1'-0"







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P 402-330-2772 | F 402-330-2630  
ETI Project No: 2018-113

Project Title: **GLENWOOD COMMUNITY SCHOOL DISTRICT  
ATHLETIC COMPLEX IMPROVEMENTS - BID PKG. #2 -  
REBID**  
Project Location: **400 SIVERS RD.  
GLENWOOD, IA 51534**  
Sheet Title: **ELECTRICAL DETAILS**

HSR Project Number: **18005**

Project Date: **NOVEMBER 2018**

Drawn By: **SMH**

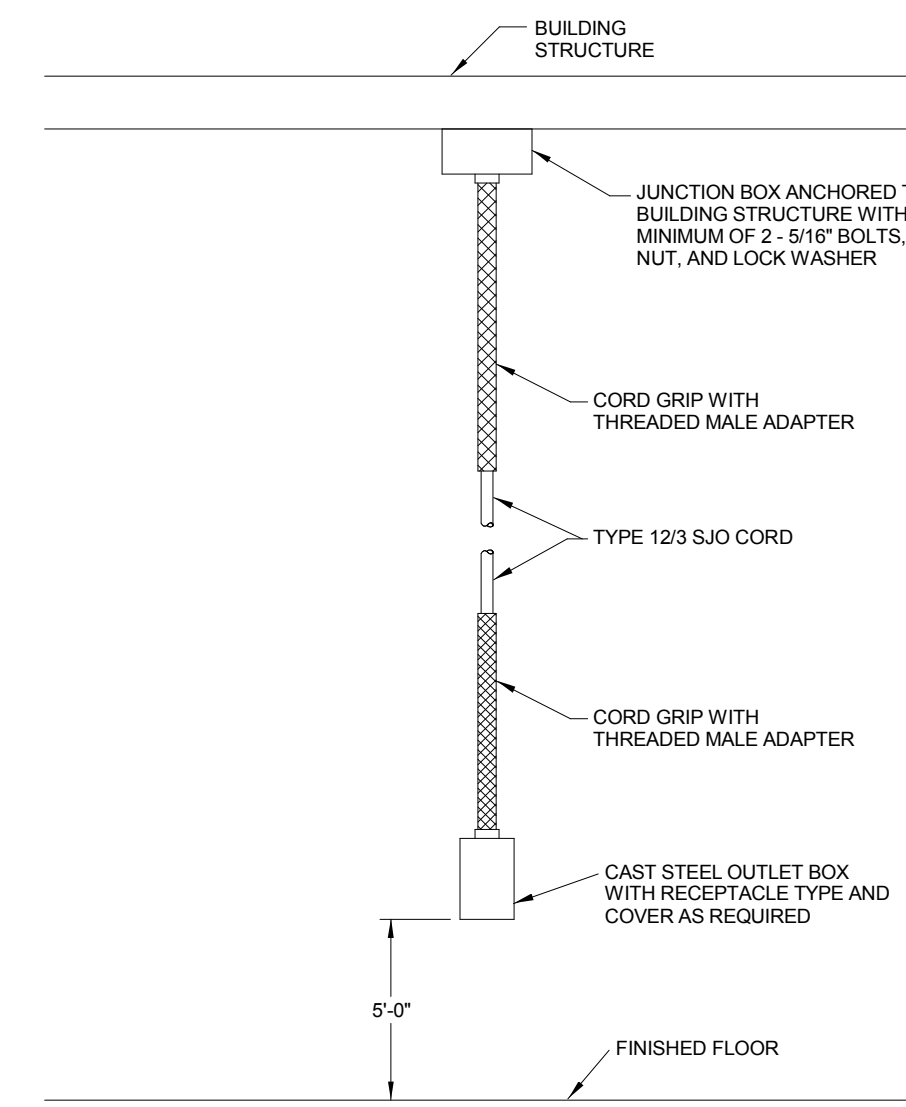
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No.	Description	Date
A3	ADDENDUM #3	11.20.2018

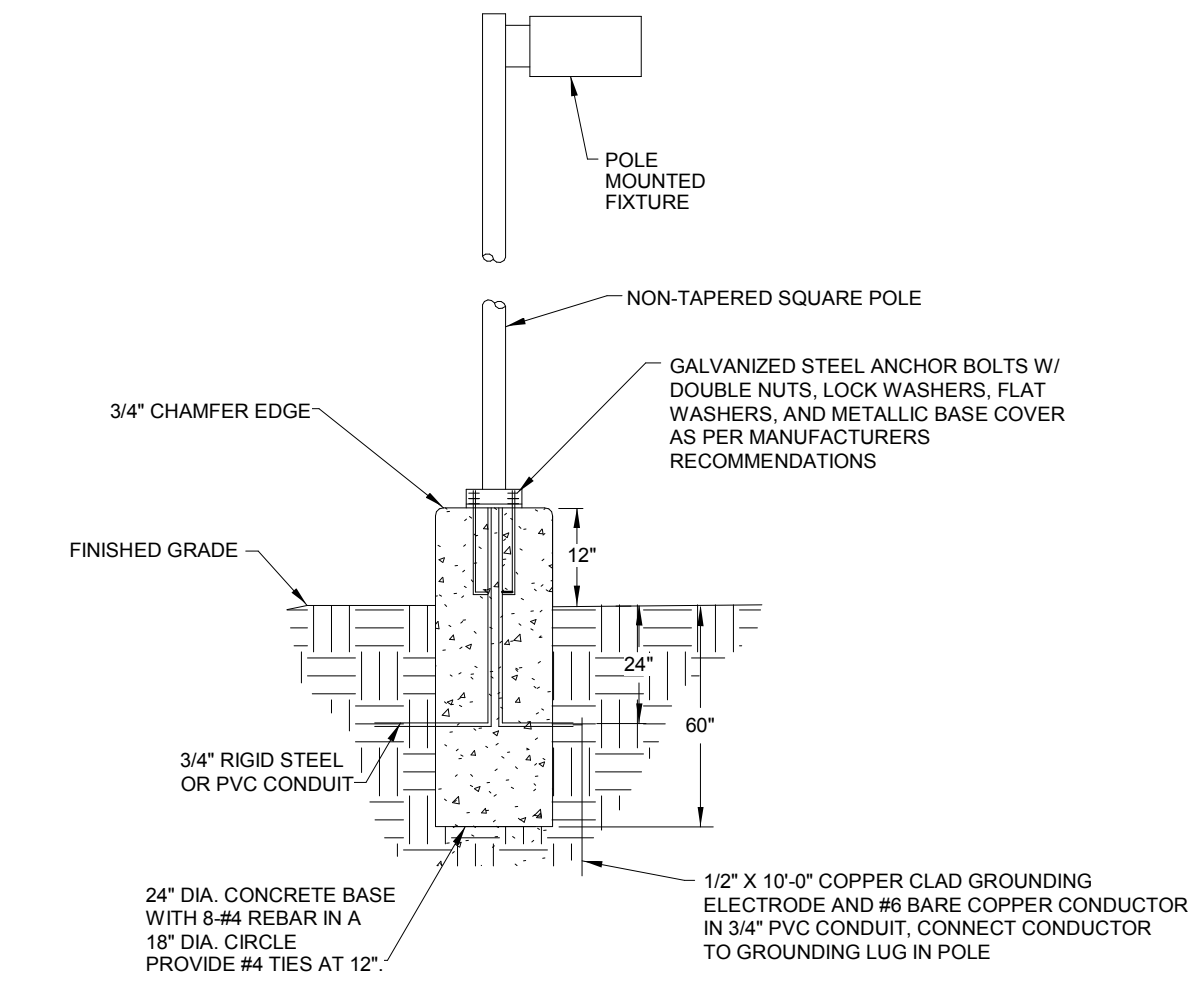
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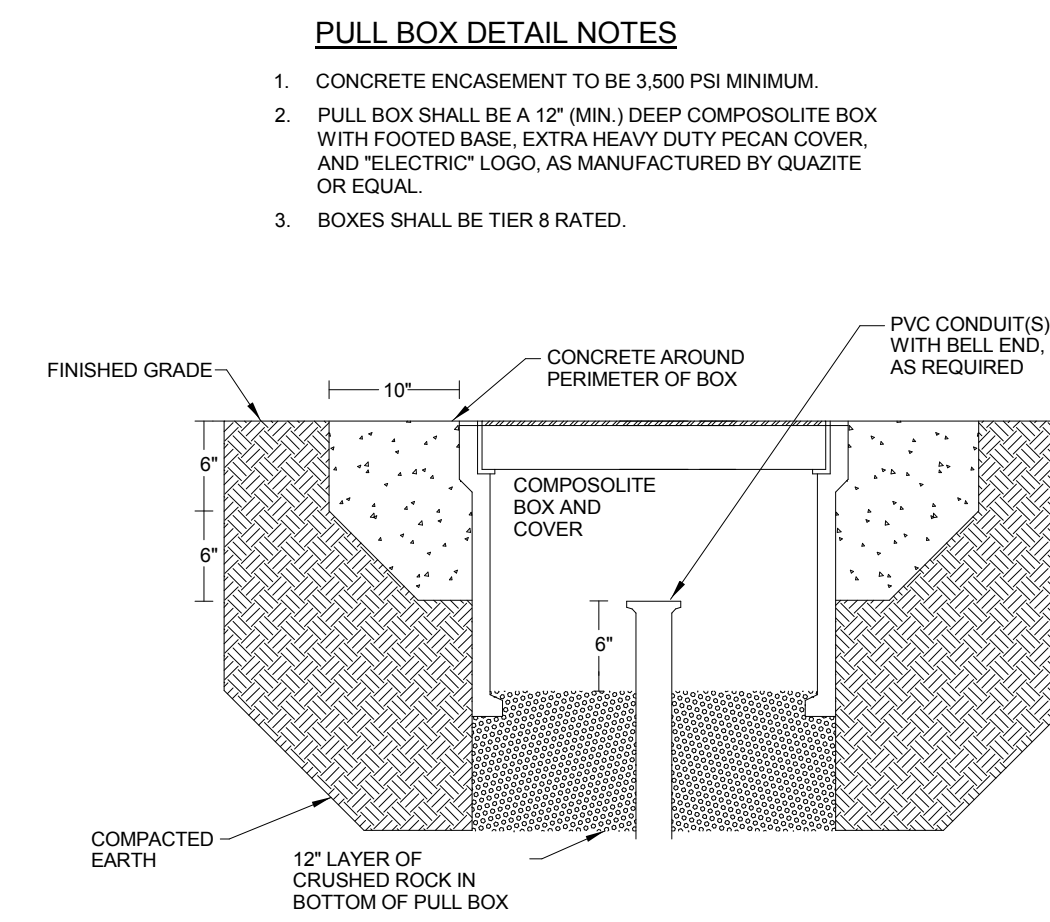
**E400R**



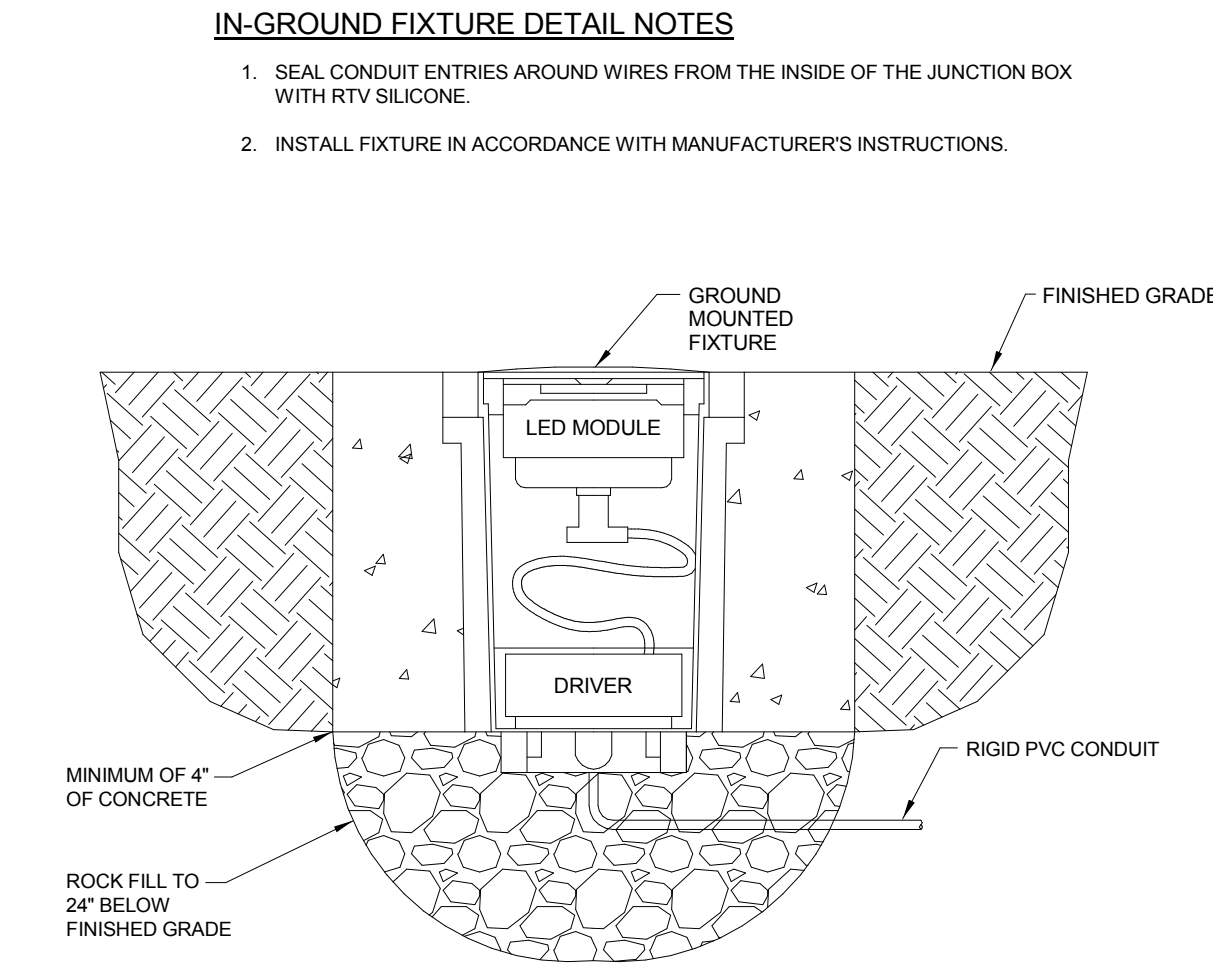
**6** SUSPENDED RECTANGLE DETAIL  
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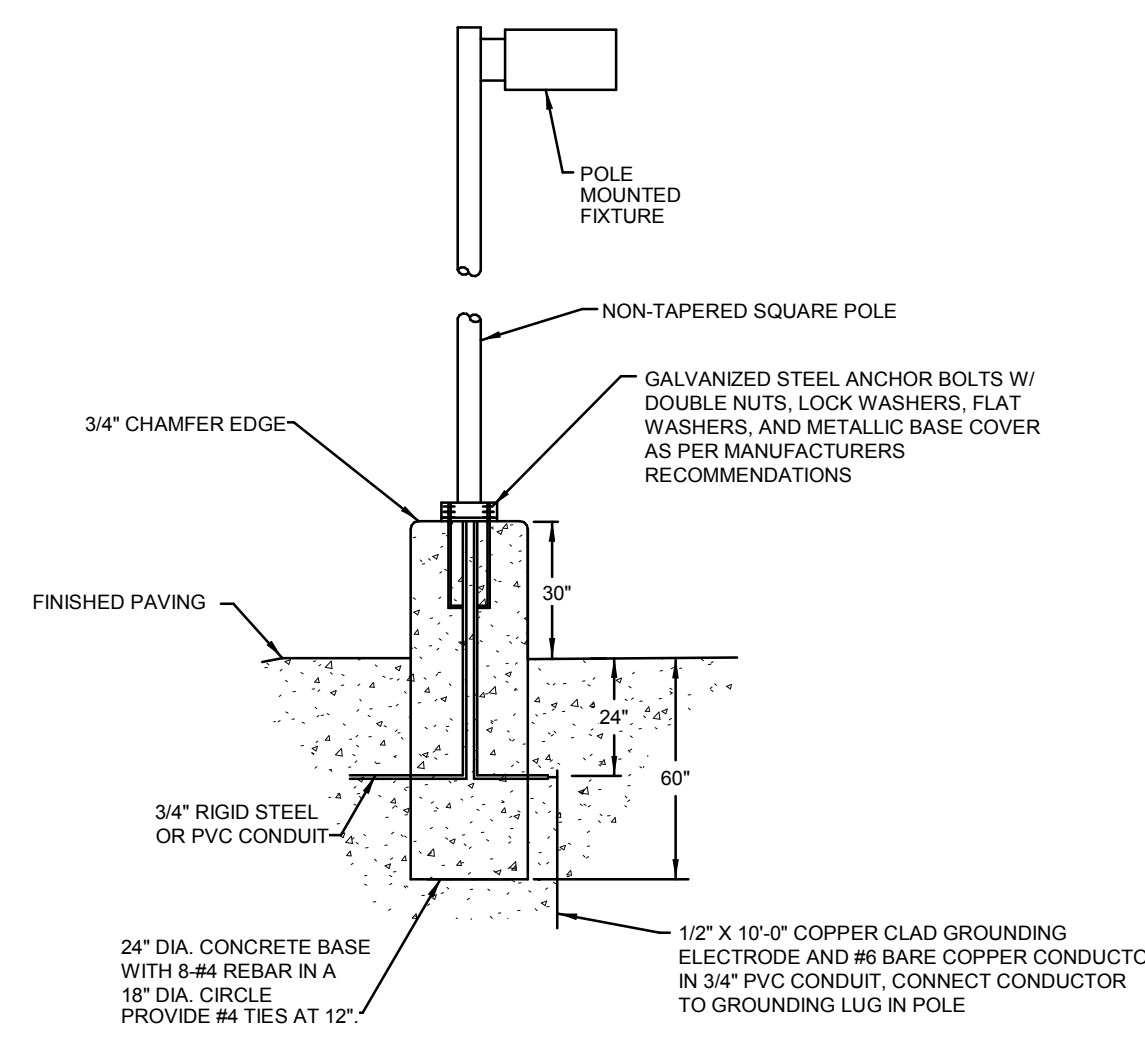
**5** TYPICAL POLE MOUNTED FIXTURE DTL  
NOT TO SCALE



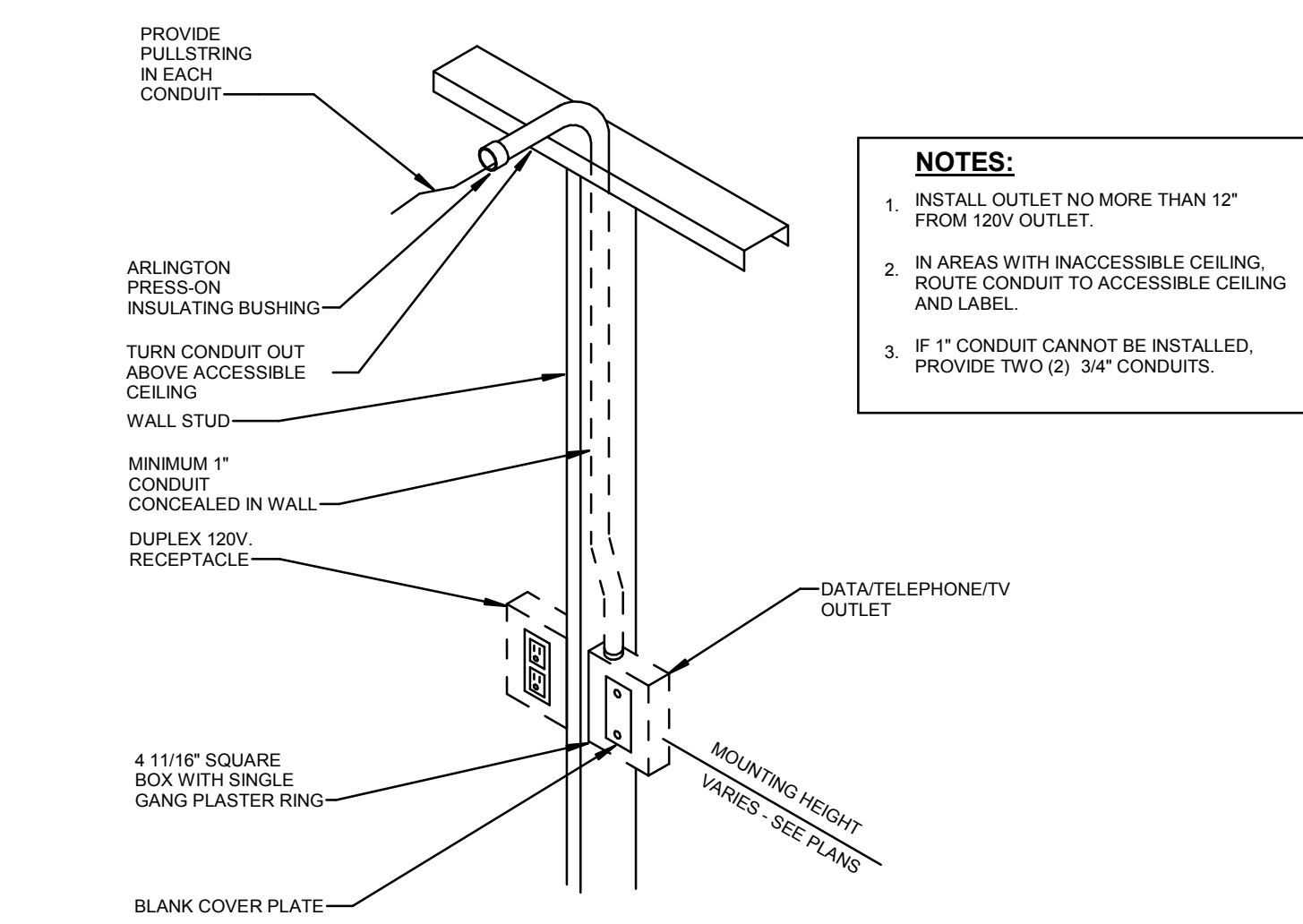
**4** IN GRADE PULLBOX DETAIL  
NOT TO SCALE



**3** IN GRADE LIGHT FIXTURE DETAIL  
NOT TO SCALE



**2** TYPICAL POLE MOUNTED FIXTURE DTL  
NOT TO SCALE



**1** DATA/TELEPHONE/TV OUTLET DETAIL  
NOT TO SCALE

