

THE SCHOOL DISTRICT OF PHILADELPHIA
Office of Capital Programs
440 North Broad Street, 3rd Floor – Suite 371
Philadelphia, PA 19130

TELEPHONE: (215) 400-4730

Addendum No. 2

Subject: W.B. Saul High School – New Livestock Center
SDP Contract Nos. B-011C, B-012C, B-013C of 2017/18

Location: W.B. Saul High School
7100 Henry Avenue
Philadelphia, Pennsylvania 19128

This Addendum, dated 25th of April, 2018, shall modify and become part of the Contract Documents for the work of this project. Any items not mentioned herein, or affected by, shall be performed strictly in accordance with the original documents.

The following items, clarifications and/or revisions are to be included in the Contract Documents:

GENERAL

1. Specification Section 00 0050 Invitation to Bid: Revision to the date/time of the Post-Bid Conference: The Post-Bid Conference, originally scheduled to take place on Wednesday, May 2, 2018 at 9:00 AM, will take place immediately following the bid opening on **Tuesday, May 1, 2018 at 2:00 PM.**

BIDDER'S QUESTIONS

1. Specification 01-1000, Par. 1.02.D, states NTP may not be issued until September 1, 2018. Has this been decided yet? If not, will it be decided before the bid due date? Need to know in order to factor in material and labor cost increases.

Response: NTP is now anticipated for the beginning of July 2018.

2. Specification 01-1000, Par. 2 (Plumbing Contract scope of work) indicates new site water distribution from existing water main to barn, including relocation and tie-in to existing. Paragraphs 2.b and 2.e also indicate sanitary sewage pump and force main piping from barn to existing sewer by Plumbing Contractor. Site water and sanitary to within 5' of building is normally in the General Construction scope of work (site work sub), with Plumbing Contractor responsible for water and sewage inside the building and 5' beyond exterior wall and tied into water and sewer by General Contractor. Please clarify site water and force main to within 5' of building is by the General Construction contract.

Response: Perform work as specified.

3. What is the project duration?

Response: Substantial Completion by January 31, 2019; Final Completion by February 28, 2019. See Specification Section 01 1300-Time of Completion, etc. for detailed requirements.

4. Specification Section 01-1500 3.3.B Temporary Construction Fence Chain Link: Should we figure 6' ht CL w/driven posts and gates?

Response: Comply with the requirements of Specification Section 01 1500. Contractor controls means and methods.

5. Specification Sections 06-1000 2.1.A Rough Carpentry, 06-1600 2.1. Sheathing and 06-1753 2.2.A Trusses: All call for FSC Certified Lumber. Is this a LEED project or can the FSC certification be waived?

Response: The project will not seek LEED. FSC-certification is not waived.

6. Is there a Geotech report for borings being issued?

Response: A Geotechnical Report was produced and the contract documents reflect the findings and recommendations therein. The Geotechnical Report will not be provided.

7. Is there a plan for the laydown area for trailers and storage areas?

Response: Not at this time. Plan to be coordinated at pre-construction meeting.

8. Regarding the bird screen, please provide sketch(es) indicating details of framing and screening at head, sill, jambs and trim, interfacing with framed walls and metal siding.

Response: The stainless-steel bird screen is to be installed with stainless steel staples as indicated in Paragraph 3.3A of Specification Section 05-5000. The bird screen is surface applied on the exterior of the wood framing. As indicated in Detail 03/S3.01, there is a 2x6 sill plate on top of the concrete wall and 2x4 verticals at 32 inches between columns. As indicated in Section 02/A4.01, there are 2x4 purlins laid flat attached to the exterior at the surface. The bird screen is applied to the surface of the purlins.

9. Also regarding the bird screen, please provide sketch indicating details of framing and screening at head, sill, jambs and trim, interfacing with AG curtains and wood columns, reference Elevations 01, 02 and 03 on Drawing A3.01.

Response: The AG curtains are surface applied on the exterior of the building shown in Section 02/A4.01.

10. Water heater - I noticed that the electrical panel schedule on E3.01 listed the device as a 50 amp 208v single phase load. The water heater schedule on P3.01 lists the water heater as a 40 amp 208v three phase load. Looking up the Temptra 36 by Stiebel Eltron I find that this water heater is neither of the above but a device that requires three 50 amp 208v single phase circuits. This means that there needs to be two more 50a/2p circuit breakers in panel B-1. Should we just price as is for now?

Response: See changes to drawings for water heater revision.

CHANGES TO DRAWINGS

Drawing: C1.03

Revisions:

- a. Revised the routing of the overhead electric communications utility.
- b. Added note for the tree at the northeast corner of the existing Ag Sciences Building to be removed by the General Contractor.

Drawing A2.01

Revisions:

- a. Corrected plotting error for □ at Key Notes 1b, 3b, 3c and 3g.

Drawing P2.01

Revisions:

- a. At Medical 108, revised the hot water heater to a storage tank water heater in lieu of an instantaneous water heater.

Drawing P3.01

Revisions:

- a. Revised Detail 4 (hot water heater is revised from tankless water heater to storage tank water heater).
- b. Revised the Water Heater Schedule (hot water heater is revised from tankless water heater to storage tank water heater).
- c. At Detail 03 Water Riser Diagram, revised water heater to storage water heater (tank type).

Drawing: E1.01

Revisions:

- a. Revised the routing of the overhead electric communications utility.

Drawing: E3.01

Revisions:

- a. Revised Keynote No. 9 to read "Provide 3-inch NM flex conduit with (4) 250MCM aluminum, run underneath soffit of existing Ag Sciences Building to the east end of the building."
- b. Revised Keynote No. 10 to read "Provide 4-inch RGS riser with weather head mounted to existing masonry wall on the east end of the Ag Sciences Building."
- c. At Detail 02 Panel Schedule, revised Circuit 7/9 to 40A/2P and wire size to No. 8 AWG.

End of Addendum 2

SEAL:

BRIAN MICHAEL DEHL, PE
STATE AND LICENSE NO: PA 07074661
DATE: 11/10/2017

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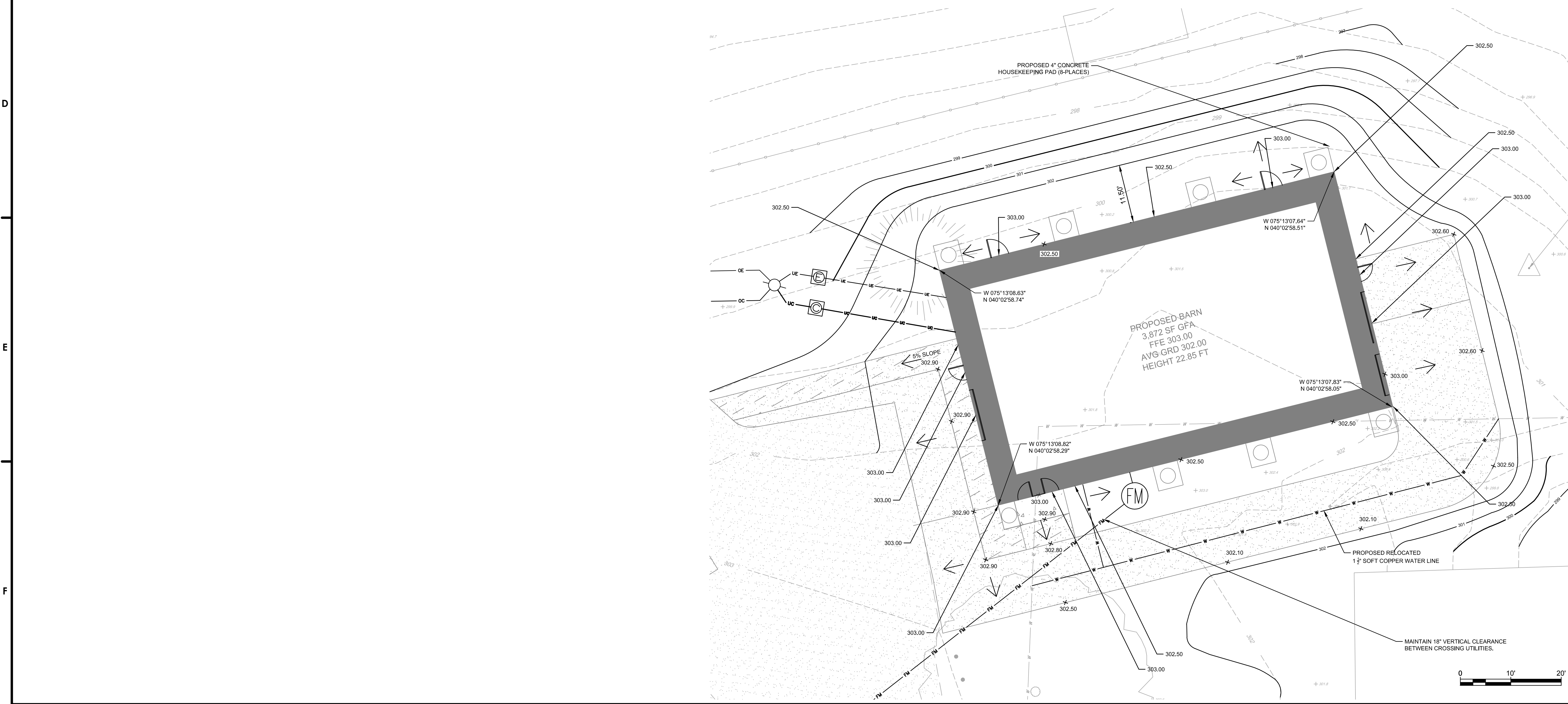
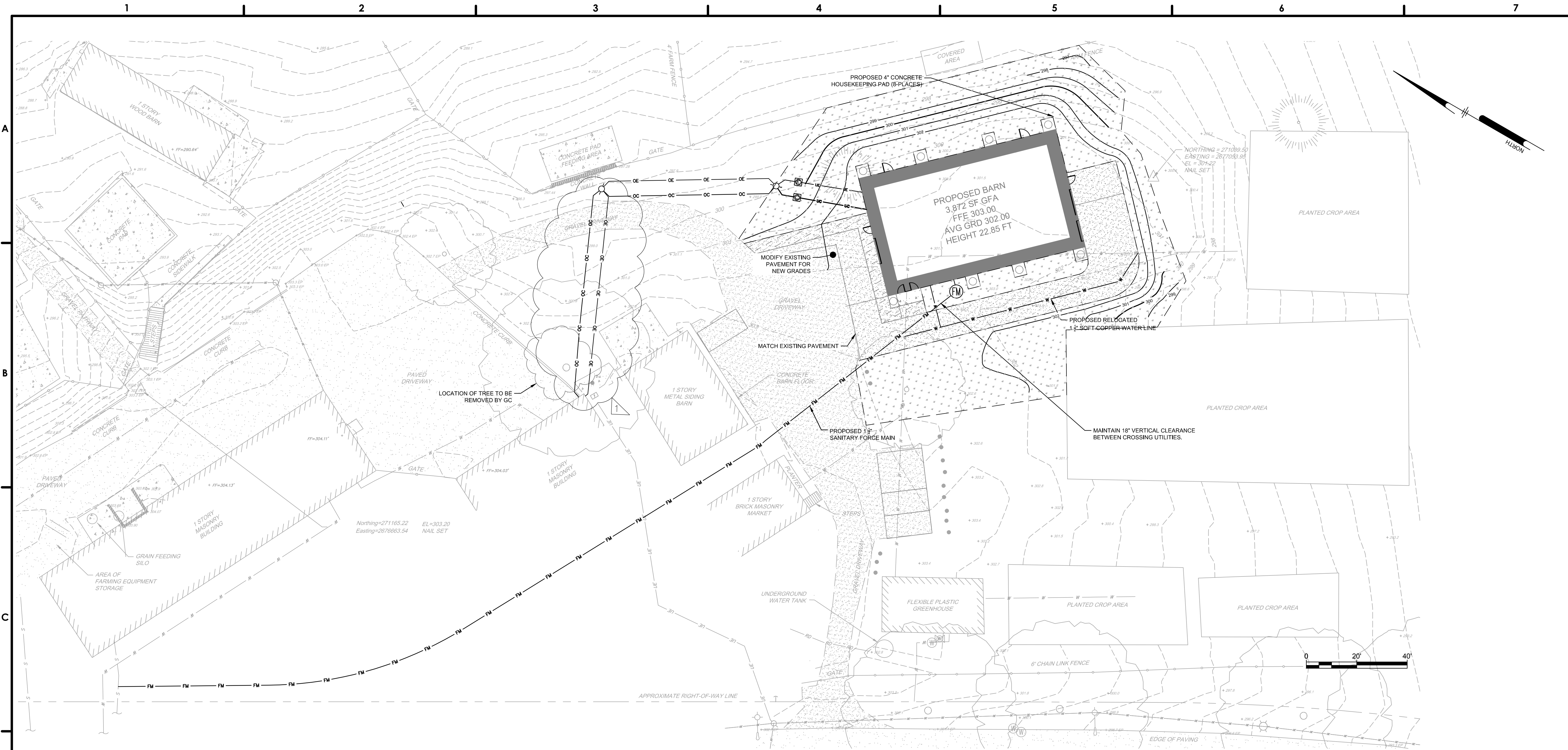
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GRADING NOTES:

- A GEOTECHNICAL ENGINEER IS REQUIRED TO INSPECT, TEST AND CERTIFY TO THE COMPACTION OF ALL LOAD BEARING FILLS.
- BEDDING REQUIREMENTS SPECIFIED HEREIN ARE TO BE CONSIDERED AS MINIMUMS FOR RELATIVELY DRY, STABLE EARTH CONDITIONS. ADDITIONAL BEDDING SHALL BE REQUIRED FOR ROCK TRENCHES AND NET AREAS. CONTRACTOR SHALL HAVE THE RESPONSIBILITY TO PROVIDE SUCH ADDITIONAL BEDDING AS MAY BE REQUIRED TO PROPERLY CONSTRUCT THE WORK.
- COMPACTION OF THE BACKFILL OF ALL TRENCHES SHALL BE COMPACTED TO THE DENSITY OF 95% OF THEORETICAL MAXIMUM DRY DENSITY (ASTM 9985). BACKFILL MATERIAL SHALL BE FREE FROM ROOTS, STUMPS, OR OTHER FOREIGN DEBRIS AND SHALL BE PLACED IN LIFTS NOT TO EXCEED 8 INCHES IN COMPACTED LIFT THICKNESS. CORRECTION OF ANY TRENCH SETTLEMENT WITHIN A YEAR FROM THE DATE OF APPROVAL WILL BE THE RESPONSIBILITY OF THE CONTRACTOR. MATERIAL THAT CANNOT BE COMPACTED AS REQUIRED SHALL BE BROUGHT TO THE ATTENTION OF THE GEOTECHNICAL ENGINEER, OVER EXCAVATED, AND THEN REPLACED WITH SUITABLE FILL.
- THE CONTRACTOR WILL INSURE THAT POSITIVE AND ADEQUATE DRAINAGE IS MAINTAINED AT ALL TIMES WITHIN THE PROJECT LIMITS. THIS MAY INCLUDE, BUT NOT BE LIMITED TO, REPLACEMENT OR RECONSTRUCTION OF EXISTING DRAINAGE STRUCTURES THAT HAVE BEEN DAMAGED OR REMOVED OR REGRADING AS REQUIRED BY THE ENGINEER, EXCEPT FOR THOSE DRAINAGE ITEMS SHOWN AT SPECIFIC LOCATIONS AND HAVING SPECIFIC PAY ITEMS IN THE DETAILED ESTIMATE. NO SEPARATE PAYMENT WILL BE MADE FOR ANY COSTS INCURRED TO COMPLY WITH THIS REQUIREMENT.
- THE CONTRACTOR SHALL PROVIDE ANY AND ALL EXCAVATION AND MATERIAL SAMPLES NECESSARY TO CONDUCT REQUIRED SOIL TESTS. ALL ARRANGEMENTS AND SCHEDULING FOR THE TESTING SHALL BE THE CONTRACTOR'S RESPONSIBILITY.
- SOILS TESTING AND ON-SITE INSPECTION SHALL BE PERFORMED BY AN INDEPENDENT GEOTECHNICAL ENGINEER. THE SOILS ENGINEER SHALL PROVIDE COPIES OF TEST REPORTS TO THE CONTRACTOR, THE OWNER AND THE OWNER'S REPRESENTATIVE AND SHALL PROMPTLY NOTIFY THE OWNER, HIS REPRESENTATIVE AND THE CONTRACTOR, SHOULD WORK PERFORMED BY THE CONTRACTOR FAIL TO MEET THESE SPECIFICATIONS.
- CONTRACTOR SHALL FURNISH AND MAINTAIN ALL NECESSARY BARRICADES AROUND THE WORK AREA AND SHALL PROVIDE PROTECTION AGAINST WATER DAMAGE AND SOIL EROSION.
- MAXIMUM SIDEWALK CROSS SLOPE IS 2% AND MINIMUM SIDEWALK CROSS SLOPE IS 1% WITHIN THE CITY RIGHT OF WAY.
- ELEVATIONS ARE BASED ON CITY OF PHILADELPHIA VERTICAL DATUM.
- REFER TO DRAWING P-101 FOR PLUMBING INFORMATION.

LEGEND

- EXISTING BUILDING
- RIGHT-OF-WAY / PROPERTY LINE
- PROPERTY LINE
- ADJACENT PROPERTY LINE
- CURB
- SIDEWALK
- PAVEMENT
- UTILITY POLE AND LIGHT
- LIGHT POLE
- SIGN
- HYDRANT
- MAJOR CONTOUR
- MINOR CONTOUR
- WATER LINE
- UNDERGROUND GAS LINE
- UNDERGROUND STEAM LINE
- SANITARY SEWER
- STORM SEWER
- UNDERGROUND ELECTRIC LINE
- OVERHEAD ELECTRIC LINE
- UNDERGROUND TELECOMM LINE
- OVERHEAD TELECOMM LINE
- UNDERGROUND COMMUNICATIONS LINE
- ROOF DRAIN
- UTILITY EQUIPMENT
- MANHOLES
- VALVES
- INLET
- TREE
- V.I.F. VERIFY IN FIELD
- PROPOSED BUILDING
- PROPOSED GRAVEL PAVING
- PROPOSED CONCRETE PAD
- PROPOSED GRAVEL SIDEWALK
- PROPOSED GRASS
- PROPOSED UTILITY POLE
- PROPOSED UNDERGROUND COMMUNICATION LINE
- PROPOSED UNDERGROUND ELECTRIC LINE
- PROPOSED OVERHEAD ELECTRICAL LINE
- PROPOSED WATER LATERAL
- PROPOSED FORCE MAIN
- PROPOSED FORCE MAIN WELL
- PROPOSED COMMUNICATION HANDHOLE
- PROPOSED ELECTRICAL HANDHOLE
- PROPOSED WATER VALVE
- PROPOSED MAJOR CONTOUR
- PROPOSED MINOR CONTOUR
- PROPOSED SPOT ELEVATION
- PROPOSED BOTTOM OF WALL ELEV.
- PROPOSED SURFACE SLOPE



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1	04/18/18	ADDENDUM NO. 2
NO.	DATE	REVISION

SCHOOL & LOCATION
W.B. SAUL HIGH SCHOOL
900 WISES MILL ROAD
PHILADELPHIA, PA 19128

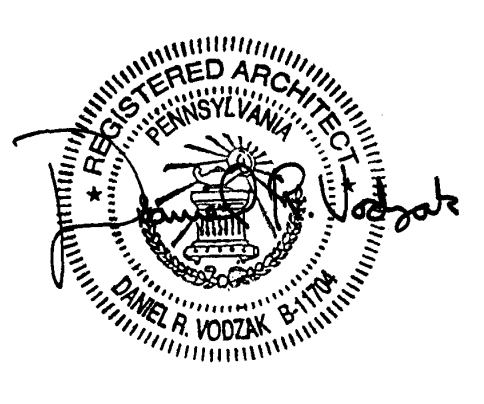
PROJECT TITLE
NEW LIVESTOCK CENTER

DRAWING TITLE
UTILITY AND GRADING PLAN

LOCATION NO. 6040	FILE NO. VITE 1702
DRAWN BY BRD	CHECKED BY BMD
8-011 OF 2017 / 18	8-012 OF 2017 / 18
8-013 OF 2017 / 18	

DRAWING NO.
C1.03
SHEET 4 OF 29

SEAL:



NAME: DANIEL R. VOZZAK DATE: JUNE 30, 2019
STATE AND LICENSE NO.: PA B-11704

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KEY NOTES

- 1a #103A: 6' x 5' x 42" WALL MOUNTED LAMB/KIDDING METAL STARTER PEN. REFER TO SPECIFICATION.
- 1b #103B: 6' x 5' x 42" WALL MOUNTED LAMB/KIDDING ADD-ON METAL PEN. REFER TO SPECIFICATION.
- 2 #660B-66: 6' x 6' x 41.5" DELUXE STANDARD ADD-ON WALL MOUNTED LAMB/KIDDING METAL PEN. REFER TO SPECIFICATION.
- 3a #817: 8' FENCELINE FEEDER STARTER/GALV. PAN. REFER TO SPECIFICATION.
- 3b #818: 8' FENCELINE FEEDER ADD-ON/GALV. PAN. REFER TO SPECIFICATION.
- 3c #941B: 4' ARCHED FRONT W/GATE, 46-1/4" W x 78" TALL, DOOR OPENING 40". DOOR SWINGS BOTH WAYS, NO DROP PINS. REFER TO SPEC.
- 3d #PPEV8: VERTICAL BAR FAIR PEN ECONOMY PANEL 8' OVERALL LENGTH W/ (2) #645 5/8" x 42" DROP PINS. REFER TO SPECIFICATION.
- 3e #PPEV5: VERTICAL BAR FAIR PEN ECONOMY PANEL 5' OVERALL LENGTH W/ (2) #645 5/8" x 42" DROP PINS. REFER TO SPECIFICATION.
- 3f PROVIDE METAL PEN MANUFACTURER'S ASSOCIATED WALL MOUNT BRACKETS, REFER TO SPECIFICATIONS. TYPICAL AT ALL METAL PEN FENCING TO BUILDING CONDITIONS.
- 4 48" HIGH 2 X 6 STUD LOW WALL CLAD WITH 3/4" PLYWOOD ON BOTH SIDES AND CAP. TYPICAL BETWEEN PIG PEN AND MIXING PEN.
- 5 32" X 30" HINGED PLYWOOD TRAP DOOR FLUSH WITH LOFT FLOOR. REFER TO DETAILS 2 & 3 ON A5.01.
- 6 12" WIDE X 12" DEEP 2B STONE STRIP WITH WEED BARRIER.
- 7 UNDER-COUNTER REFRIGERATOR 'CLIN-COOL' LHP-3-UR-PH OR EQUAL.
- 8 2 X 10 CEILING JOISTS ABOVE WITH 9" GLASS FIBER INSULATION BETWEEN JOIST. TYPICAL.
- 9 1-1/2" XPS INSULATION BETWEEN 2 X 4 FURRING STRIPS ON EXTERIOR SURFACE OF CMU. TYPICAL.
- 10 48" X 42" H X 3/4" THICK PLYWOOD TOP SLIDING GATE. PROVIDE AND INSTALL TWO NATIONAL 6-3/4" GALVANIZED PULLS. REFER TO DETAIL 1/A5.01
- 11 METAL BIRD MESH (SEE SPEC) ON 2 X 4 FRAMING @ 16" O.C. TYPICAL.
- 12 METAL BIRD MESH (SEE SPEC) ON 2 X 4 FRAMING AS SHOWN. TYPICAL.
- 13 PREFINISHED METAL SIDING ON 2 X 4 HORIZONTAL FURRING STRIPS ON 2 X 4 FRAMING. TYPICAL.
- 14 PREFINISHED METAL SIDING ON 2 X 4 HORIZONTAL FURRING STRIPS ON 8" CMU. TYPICAL.
- 15 PREFINISHED METAL SIDING ON 2 X 4 FRAMING. TYPICAL.
- 16 PREPARE MASONRY OPENING TO RECEIVE SLIDING VINYL WINDOW. PROVIDE FLASHING AND CAULKING TO MAKE WATERTIGHT. COORDINATE INSTALLATION WITH METAL SIDING MANUFACTURER'S STANDARD TRIMS. TYPICAL.
- 17 NOMINAL 48" X 24" SLIDING VINYL WINDOW. REFER TO SPECIFICATION. FIELD VERIFY MASONRY OPENING.
- 18 REFER TO SPECIFICATIONS FOR ALL REQUIRED TOILET ROOM ACCESSORIES AND INSTALL PER ANSI ICC A117.1-2012 ACCESSIBILITY REQUIREMENTS.
- 19 JAMESTOWN PREFINISHED METAL BASE AND WALL CABINETS WITH 1-1/2" SOLID SURFACE COUNTERTOP AND 4" H. BACKSPASH. REFER TO BUILDING SECTIONS AND SPECIFICATION FOR MORE INFORMATION. TYPICAL.
- 20 55-GALLON RAIN BARREL (PROVIDED BY OWNER) WITH DOWNSPOUT DIVERTER. PROVIDE 'HOUSE KEEPING' CONCRETE PAD FOR EACH RAIN BARREL. TYPICAL FOR 8.
- 21 SET TOP OF FLOOR DRAIN (FD) AT - 0'-0". DISH FLOOR SLAB AROUND DRAIN.

LEGEND:

- 8" CMU, UNINSULATED
- 8" CMU W/ INSULATION INSERTS
- "ROLLERBUG" CONCRETE SURFACE FINISH AREA. FOLLOW MANUFACTURER'S WRITTEN INSTRUCTIONS AT TIME OF CONCRETE INSTALLATION. PROVIDE 5' X 5' MOCK-UP FOR APPROVAL PRIOR TO INSTALLATION.
- 12" WIDE X 12" DEEP 2B STONE STRIP WITH WEED BARRIER.
- FE FIRE EXTINGUISHER WITH WALL BRACKETS

BID SUBMISSION
MARCH 2, 2018

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1	4-18-18	ADDENDUM 2
NO.	DATE	REVISION

SCHOOL & LOCATION

W.B. SAUL HIGH SCHOOL
900 WISES MILL ROAD
PHILADELPHIA, PA 19128

PROJECT TITLE

NEW LIVESTOCK CENTER

DRAWING TITLE

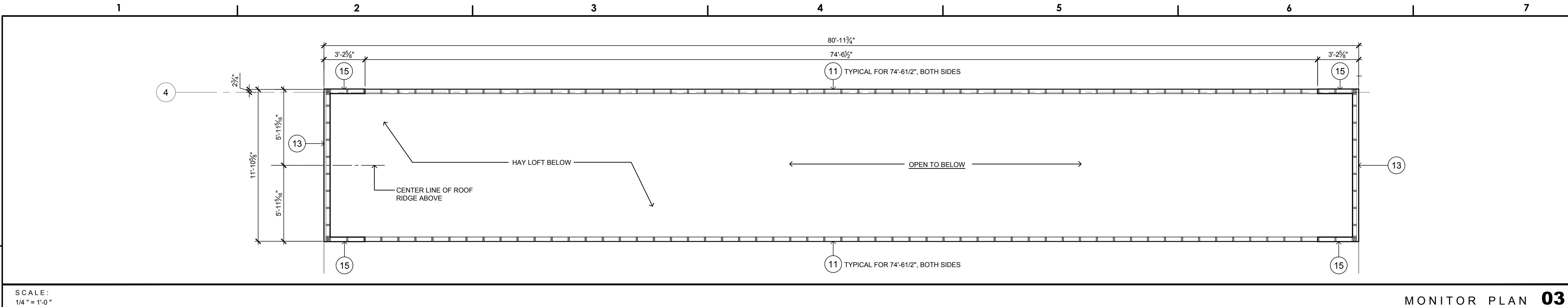
ARCHITECTURAL
FLOOR PLANS

LOCATION NO. 6040	FILE NO.
DRAWN BY CKD	CHECKED BY DRV
8-011 OF 2017 / 18	8-012 OF 2017 / 18
8-013 OF 2017 / 18	

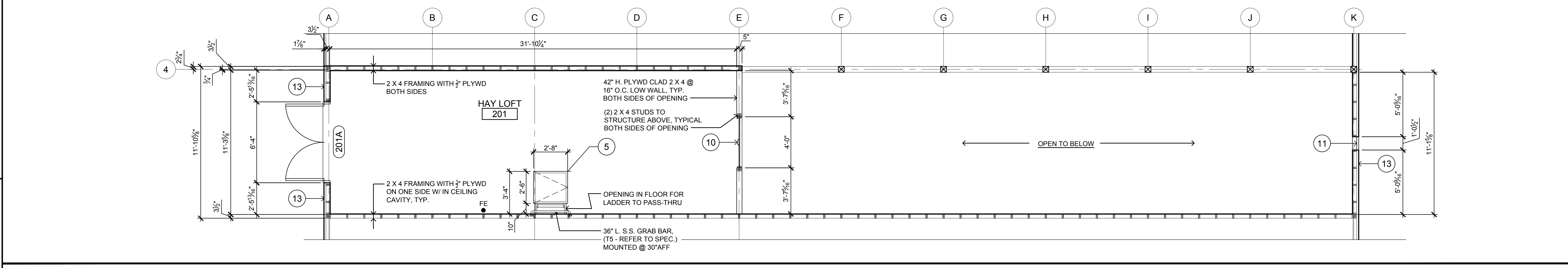
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A2.01

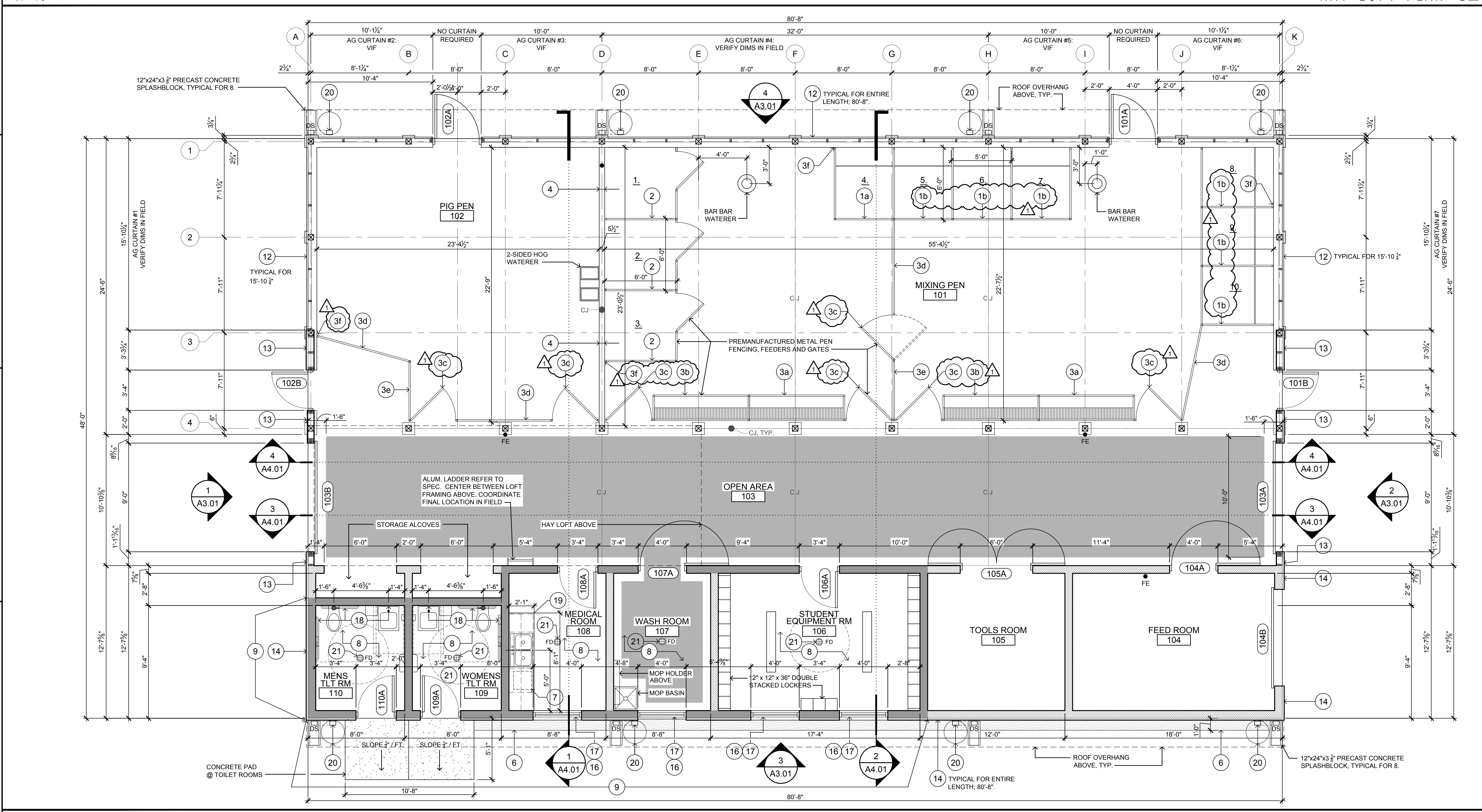
SHEET 10 OF 29



MONITOR PLAN 03



HAY LOFT PLAN 02



FLOOR PLAN 01

NOTES - LEGENDS 00

SCALE: 1/4" = 1'-0"

SEAL:



NAME: GARY R. PITTMAN DATE: 9/30/2019
STATE AND LICENSE NO.: PA PE-012197-E

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PLUMBING FIXTURE SCHEDULE

NO.	FIXTURE	TRAP	DRAIN	VENT	CW	HW	COMMENTS
AW-1	AUTOMATIC ANIMAL WATERER	/	/	/	3/4"	/	
AW-2	AUTOMATIC ANIMAL WATERER	/	/	/	3/4"	/	
FD-1	FLOOR DRAIN	3"	3"	2"	/	/	
FD-2	FLOOR DRAIN WITH SEDIMENT BUCKET	4"	4"	2"	/	/	
P-1	FLOOR MOUNTED TANK TYPE VITREOUS CHINA WATER CLOSET	INTEGRAL	4"	2"	1/2"	-	1
P-2	WALL MOUNTED VITREOUS CHINA LAVATORY	1-1/2"	1-1/2"	1-1/2"	1/2"	1/2"	1, 2, AND 3
P-3	TOP MOUNT STAINLESS STEEL SINK	1-1/2"	1-1/2"	1-1/2"	1/2"	1/2"	1, 2, AND 4
P-4	TERRAZO MOP BASIN	3"	3"	2"	3/4"	3/4"	5
P-5	ANIMAL WASH FAUCET	/	/	/	1/2"	1/2"	6
YH-1	POST TYPE FREEZE-PROOF YARD HYDRANT	/	/	/	3/4"	/	7

NOTES

- PROVIDE FLEXIBLE BRAIDED STAINLESS STEEL SUPPLY SHUT-OFF.
- PROVIDE CHROME TAIL PIECE AND P-TRAP.
- PROVIDE METERING FAUCET. REFER TO TECHNICAL SPECIFICATION SECTION 224000.
- PROVIDE DECK MOUNTED MANUAL FAUCET. REFER TO TECHNICAL SPECIFICATION SECTION 224000.
- PROVIDE WALL MOUNTED SERVICE SINK FAUCET. REFER TO TECHNICAL SPECIFICATION SECTION 224000.
- MOUNT AT 3'-0" A.F.F. TO NOZZLE.
- INSTALL PER MANUFACTURER'S INSTRUCTIONS. PROVIDE 12" x 12" x 12" CONCRETE PAD AT BASE.

SCALE:
NO SCALE

PLUMBING FIXTURE SCHEDULE 07

WATER HEATER SCHEDULE

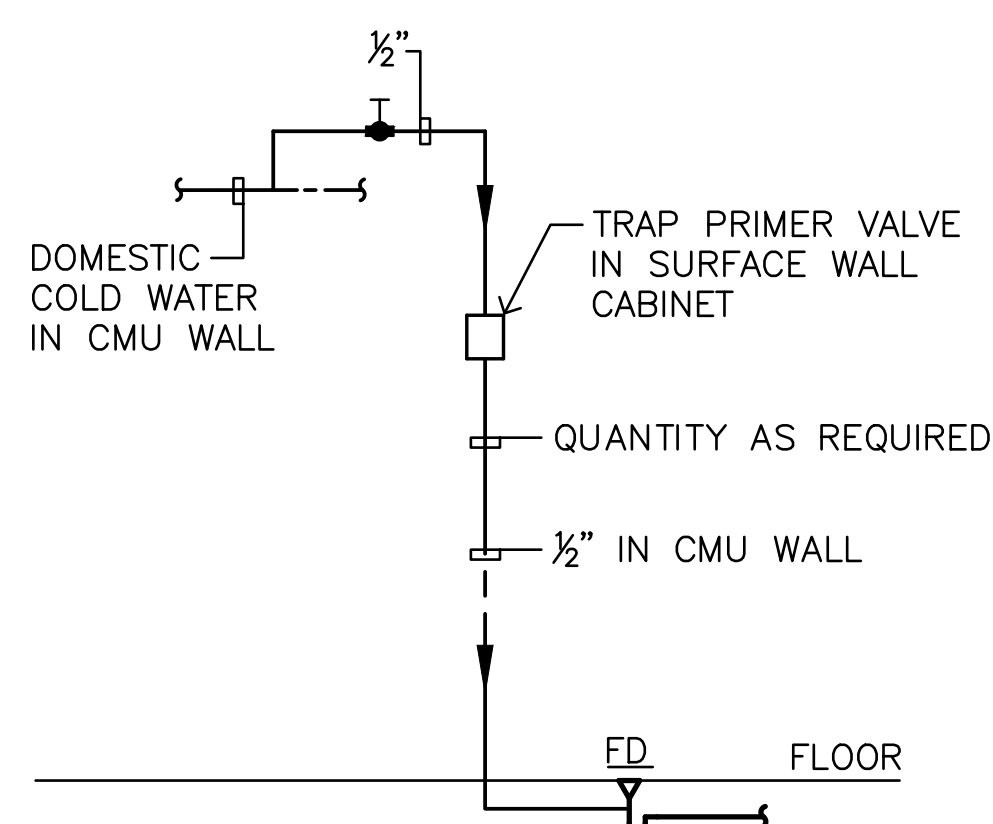
NO.	LOCATION	STORAGE (GALLONS)	RECOVERY (GPH)	TEMPERATURE RISE (°F)	KW	ELECTRICAL V-φ-Hz (AMPS) CONTROL VOLTAGE	SERVES AREA	COMMENTS
SWH-1	MEDICAL ROOM 108	50	18	100	3500/3500	208V-1P-60Hz-30A	TOILETS, MEDICAL, WASH RMS	1, 2

NOTES

- PROVIDE EXPANSION TANK, GAUGES, CHECK VALVE, SHUT-OFF VALVES, AND PRESSURE RELIEF VALVE PER DETAIL 04/P3.01.
- BASIS OF DESIGN MODEL: LE250S3-3, BRADFORD-WHITE

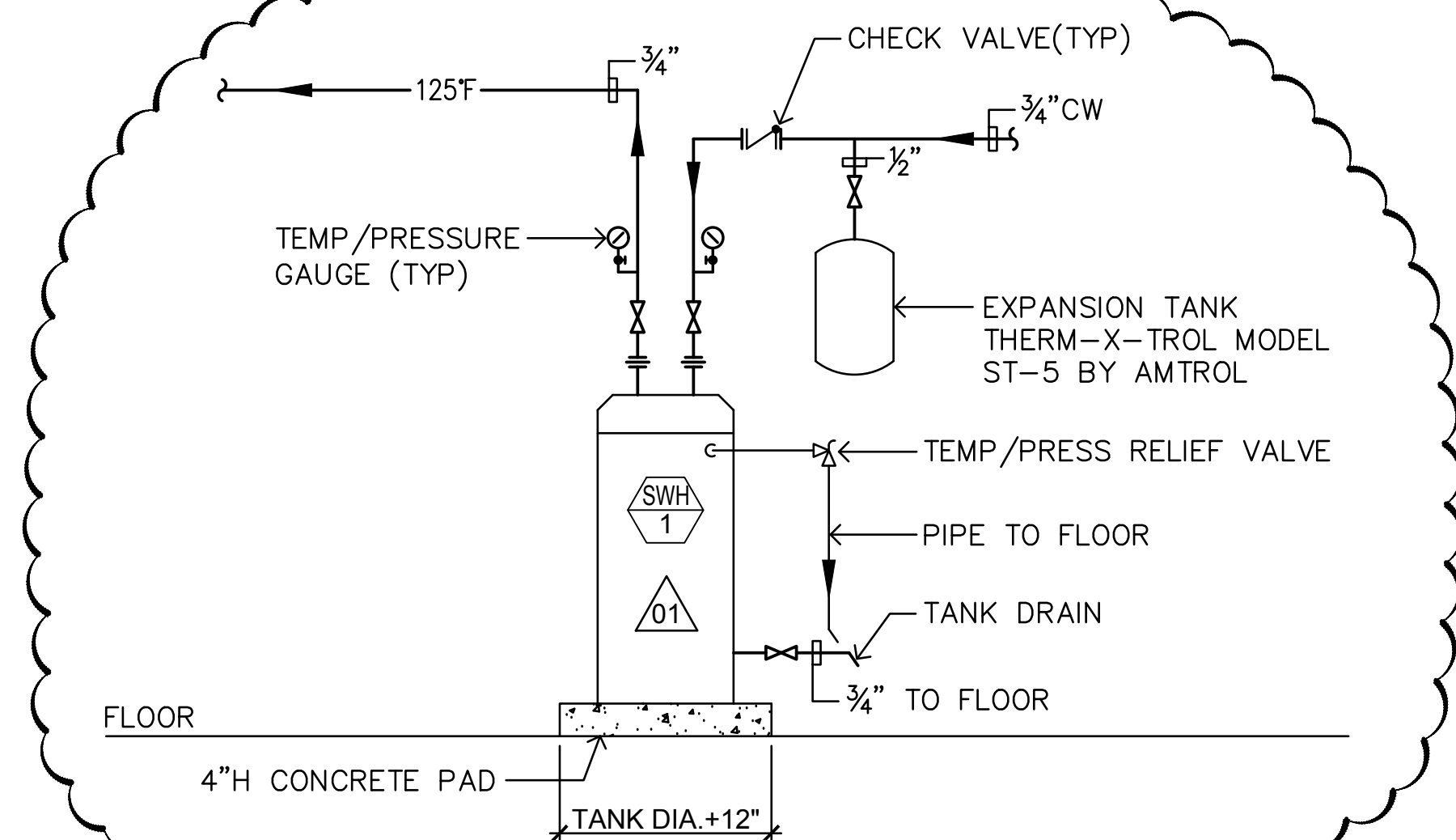
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WATER HEATER SCHEDULE 05



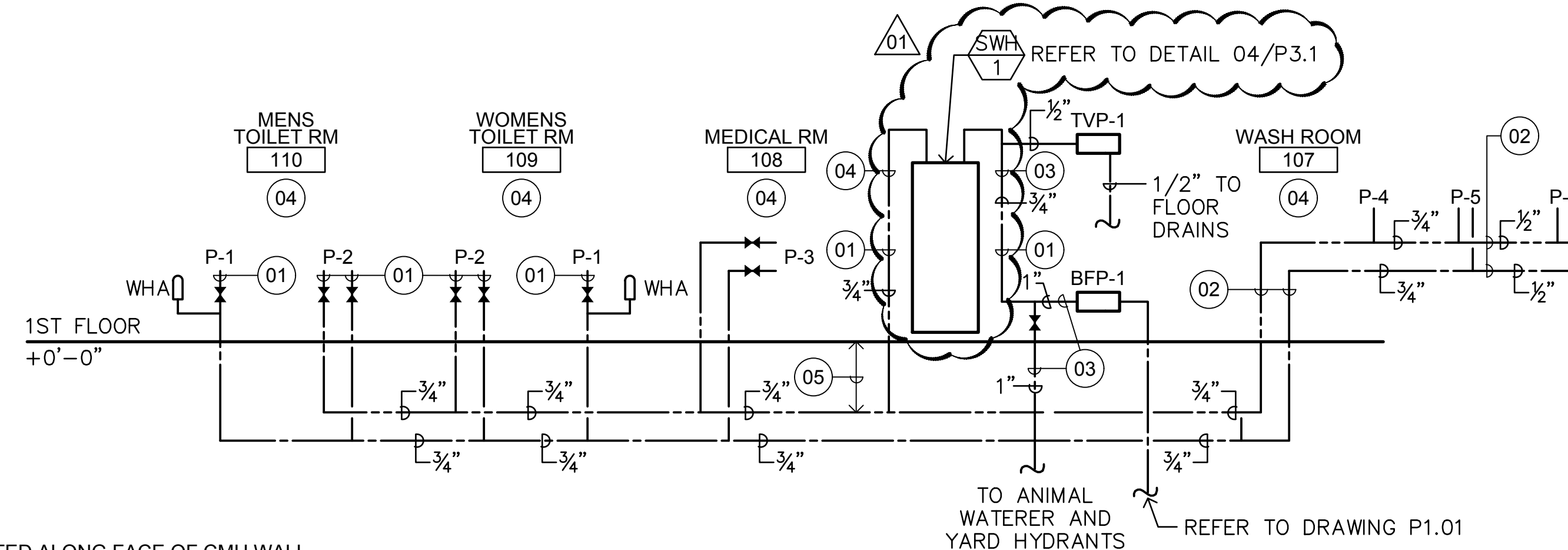
SCALE:
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TRAP PRIMER 05



SCALE:
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STORAGE WATER HEATER PIPING 04

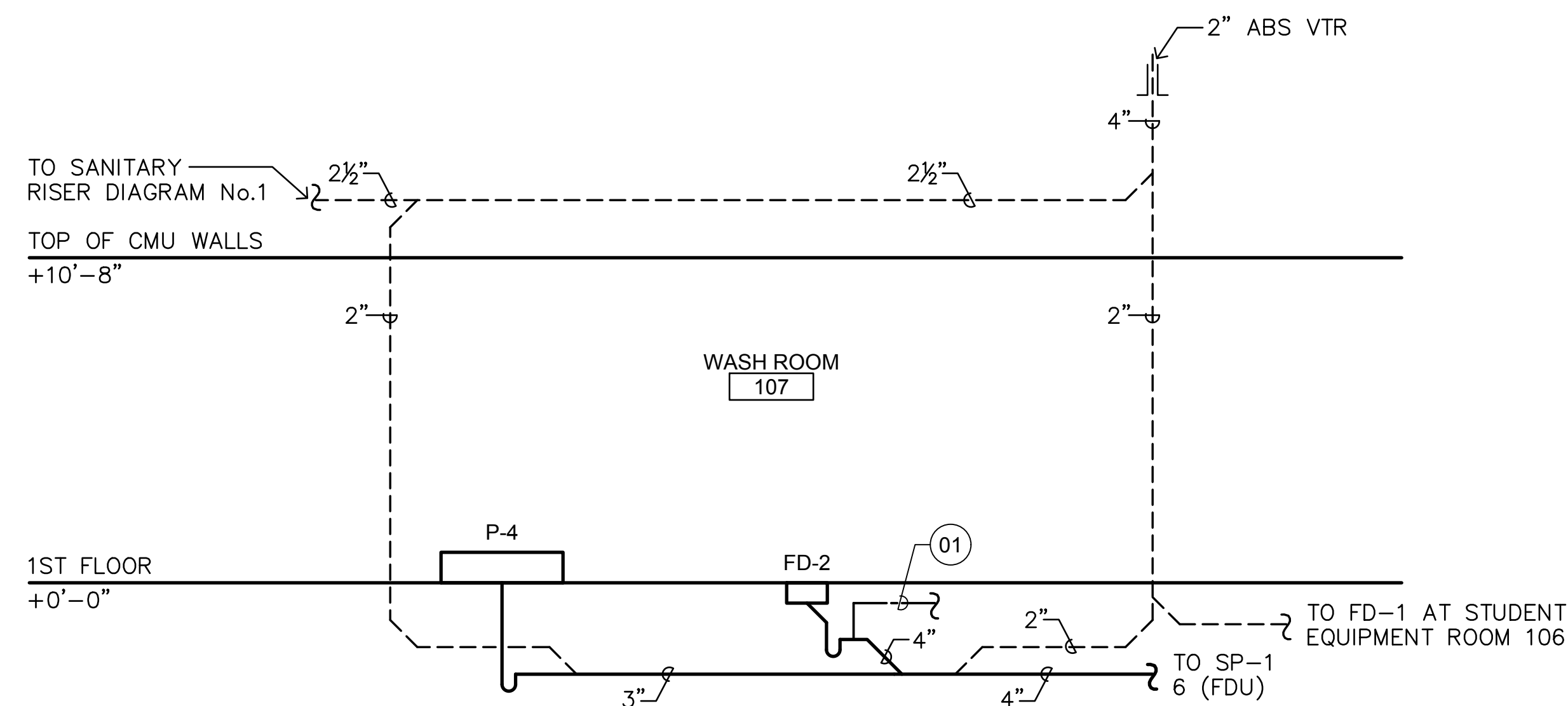


KEY NOTES

- RUN SURFACE MOUNTED ALONG FACE OF CMU WALL.
- RUN CONCEALED IN CMU WALL.
- PEX PIPE
- ALL ABOVE PIPE COPPER
- RUN PIPE AT DEPTH 2'-6" BELOW FINISHED FLOOR.

SCALE:
NO SCALE

WATER RISER DIAGRAM No. 1 03

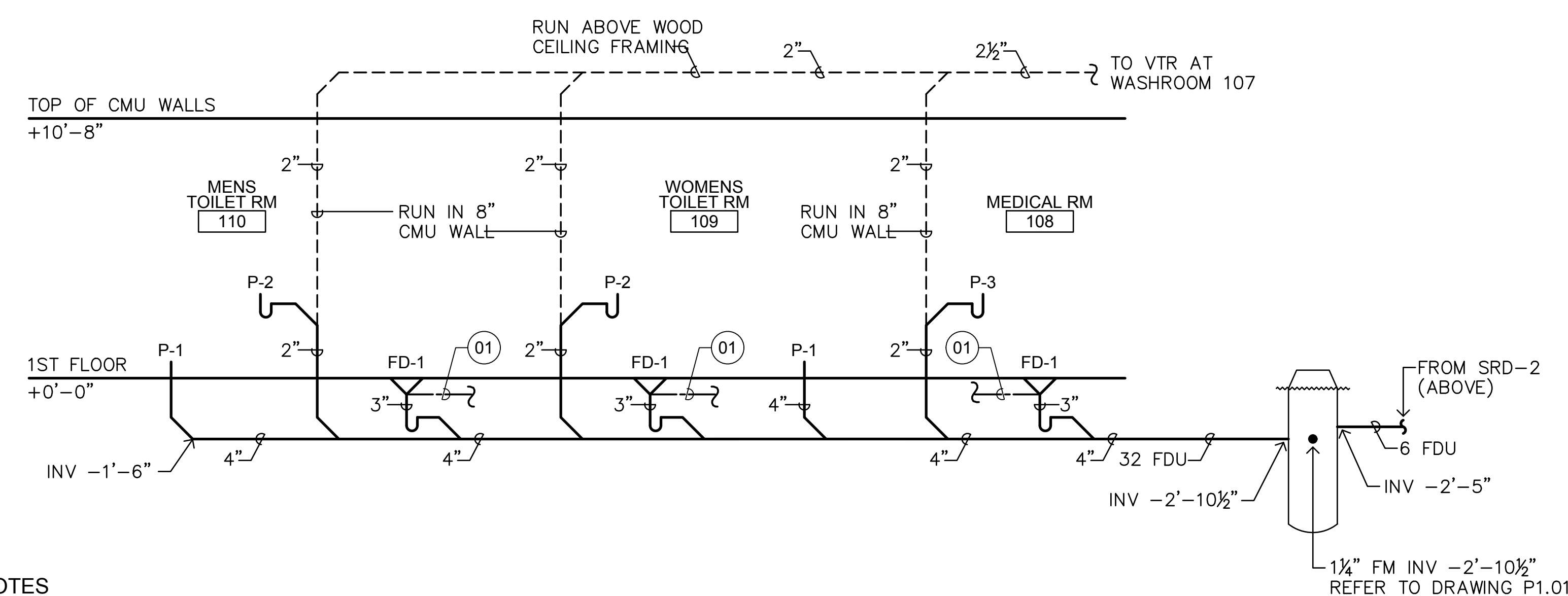


KEY NOTES

- 1/2" COPPER TO TPV-1

SCALE:
NO SCALE

SANITARY RISER DIAGRAM No. 2 02



KEY NOTES

- 1/2" COPPER TO TPV-1

SCALE:
NO SCALE

SANITARY RISER DIAGRAM No. 1 01

BID SUBMISSION
MARCH 2, 2018

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1	04.18.18	ADDENDUM NO. 2
NO.	DATE	REVISION

SCHOOL & LOCATION
W.B. SAUL HIGH SCHOOL
900 WISES MILL ROAD
PHILADELPHIA, PA 19128

PROJECT TITLE
NEW LIVESTOCK CENTER

DRAWING TITLE
PLUMBING SCHEDULES
RISER DIAGRAMS & DETAILS

LOCATION NO.	FILE NO.
6040	
DRAWN BY RJC	CHECKED BY DRV
8-011	OF 2017 / 18
8-012	OF 2017 / 18
8-013	OF 2017 / 18

DRAWING NO.
P3.01
SHEET 25 OF 29



- KEY NOTES**
- 01 EXISTING PAD-MOUNTED PECO SERVICE TRANSFORMER.
 - 02 APPROXIMATE LOCATION OF EXISTING UNDERGROUND PRIMARY ELECTRIC SERVICE.
 - 03 PROVIDE BUILDING MOUNTED WEATHERHEAD MAST FOR ELECTRIC SERVICE TO NEW BUILDING. REFER TO SINGLE-LINE DIAGRAM ON DWG. E3.01.
 - 04 PROVIDE OVERHEAD ELECTRIC FEEDER, MATCH HEIGHT OF EXISTING (±20'-0" ABOVE FINISHED GRADE).
 - 05 PROVIDE OVERHEAD FIBER OPTIC CABLE. SEPARATE FROM POWER CABLES PER NEC (18").
 - 06 PROVIDE UTILITY POLE; 25'-0" ABOVE FINISHED GRADE.
 - 07 PROVIDE (1) 4" CONDUIT DROP TO HANDHOLE - POWER.
 - 08 PROVIDE (1) 4" CONDUIT DROP TO HANDHOLE - COMMUNICATIONS.
 - 09 PROVIDE HANDHOLE.
 - 10 PROVIDE (1) 4" CONDUIT TO PANEL B1 AT MEDICAL ROOM 108. REFER TO DRAWING E2.01 AND SINGLE-LINE DIAGRAM ON DRAWING E3.01.
 - 11 PROVIDE (1) 4" CONDUIT WITH FIBER OPTIC CABLE TO DATA RACK AT MEDICAL ROOM 108. REFER TO DRAWING E2.01.
 - 12 TAP INTO EXISTING WIREWAY AT AG SCIENCES BUILDING. REFER TO SINGLE LINE DIAGRAM - 01/E3.01.



ARCHITECTURE & ENGINEERING

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 Email: vodzak@viletta.com
 Attn: Daniel R. Vodzak, RA

CIVIL

PENNONI ASSOCIATES INC.
 1908 MARKET STREET - SUITE 300
 PHILADELPHIA, PENNSYLVANIA 19103
 Phone: 215.222.3000
 Fax: 215.222.3888
 Email: Brian@Pennonni.com
 Attn: Brian Diehl, PE

**BID SUBMISSION
 MARCH 2, 2018**

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1	04.18.18	ADDENDUM NO. 2
NO.	DATE	REVISION

SCHOOL & LOCATION

W.B. SAUL HIGH SCHOOL
 900 WISES MILL ROAD
 PHILADELPHIA, PA 19128

PROJECT TITLE

NEW LIVESTOCK CENTER

DRAWING TITLE

**ELECTRICAL
 SITE PLAN**

LOCATION NO.	FILE NO.
6040	
DRAWN BY	CHECKED BY
RJC	DRV
8-011	OF 2017 / 18
8-012	OF 2017 / 18
8-013	OF 2017 / 18

DRAWING NO.
E1.01

SEAL:



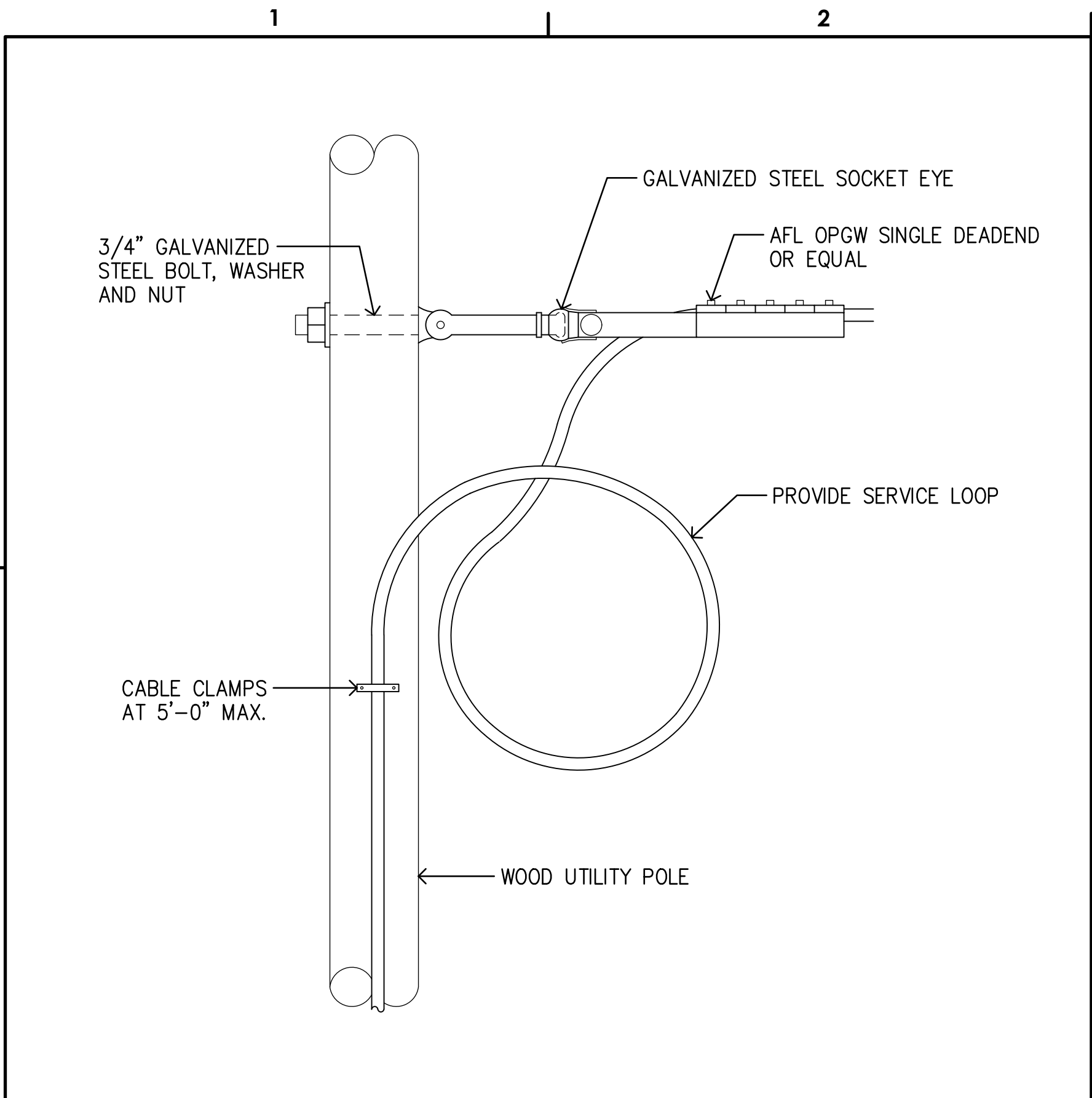
NAME: GARY R. PITMAN STATE AND LICENSE NO.: PA-PE012197-E DATE: 9/30/2019

ARCHITECTURE & ENGINEERING

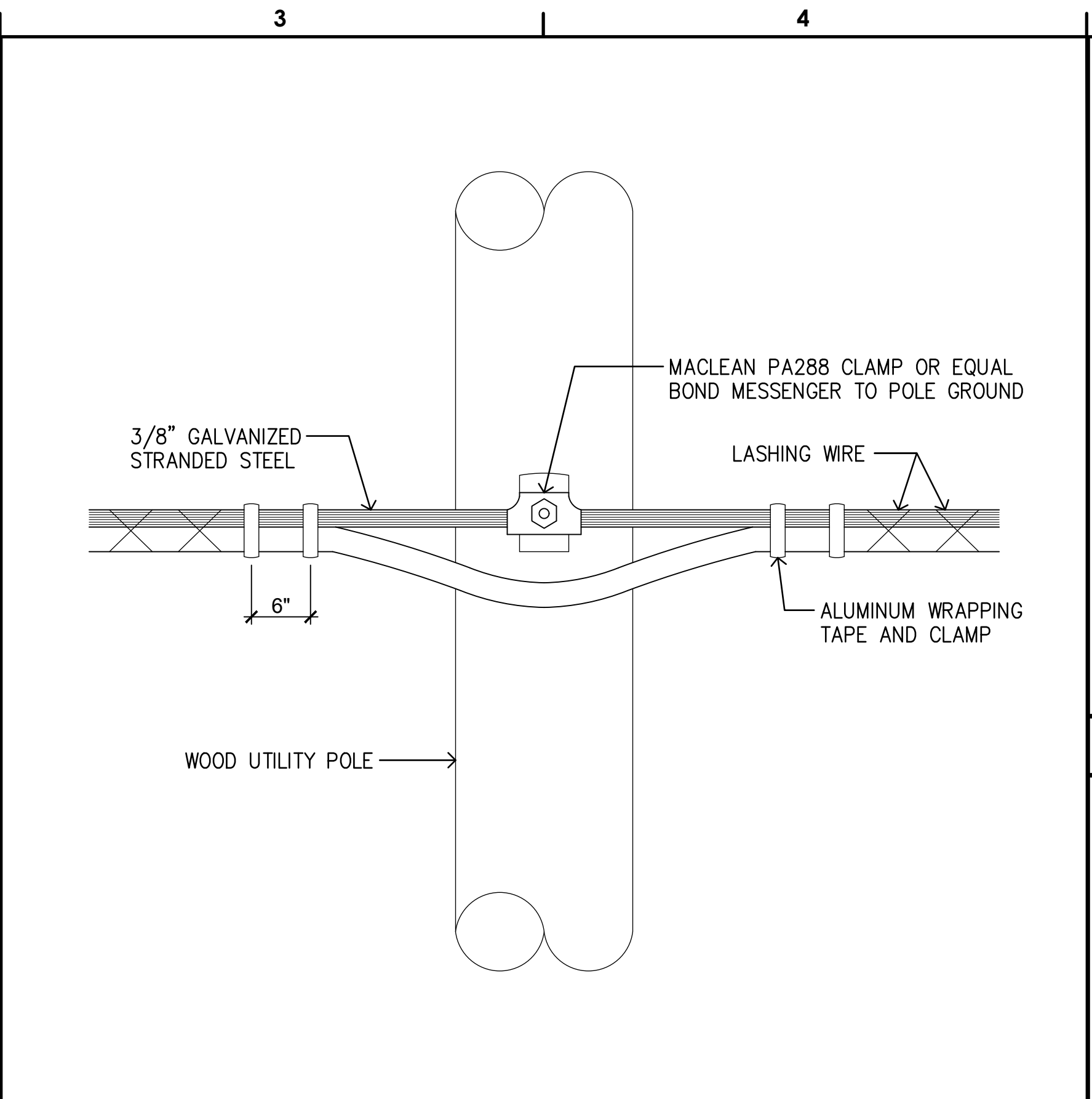
VITETTA
1510 CHESTER PIKE - SUITE 104
EDDYSTONE, PENNSYLVANIA 19022
Phone: 215.218.4747
Fax: 215.405.2729
Email: vodzak@vitetta.com
Attn: Daniel R. Vozzok, RA

CIVIL

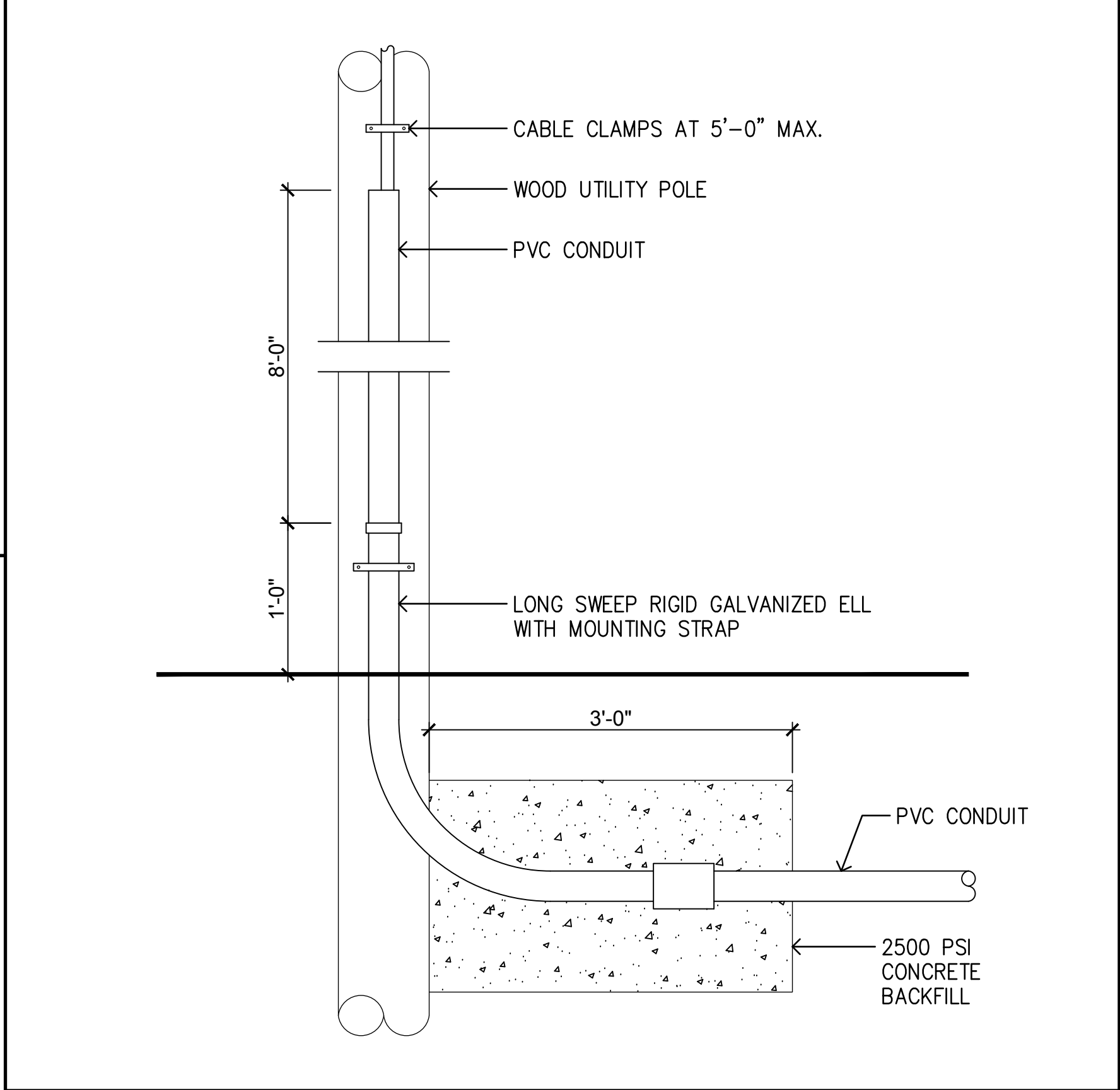
PENNONI ASSOCIATES INC.
1908 MARKET STREET - SUITE 300
PHILADELPHIA, PENNSYLVANIA 19103
Phone: 215.222.3000
Fax: 215.222.3888
Email: B0068@Pennonoi.com
Attn: Brian Diehl, PE



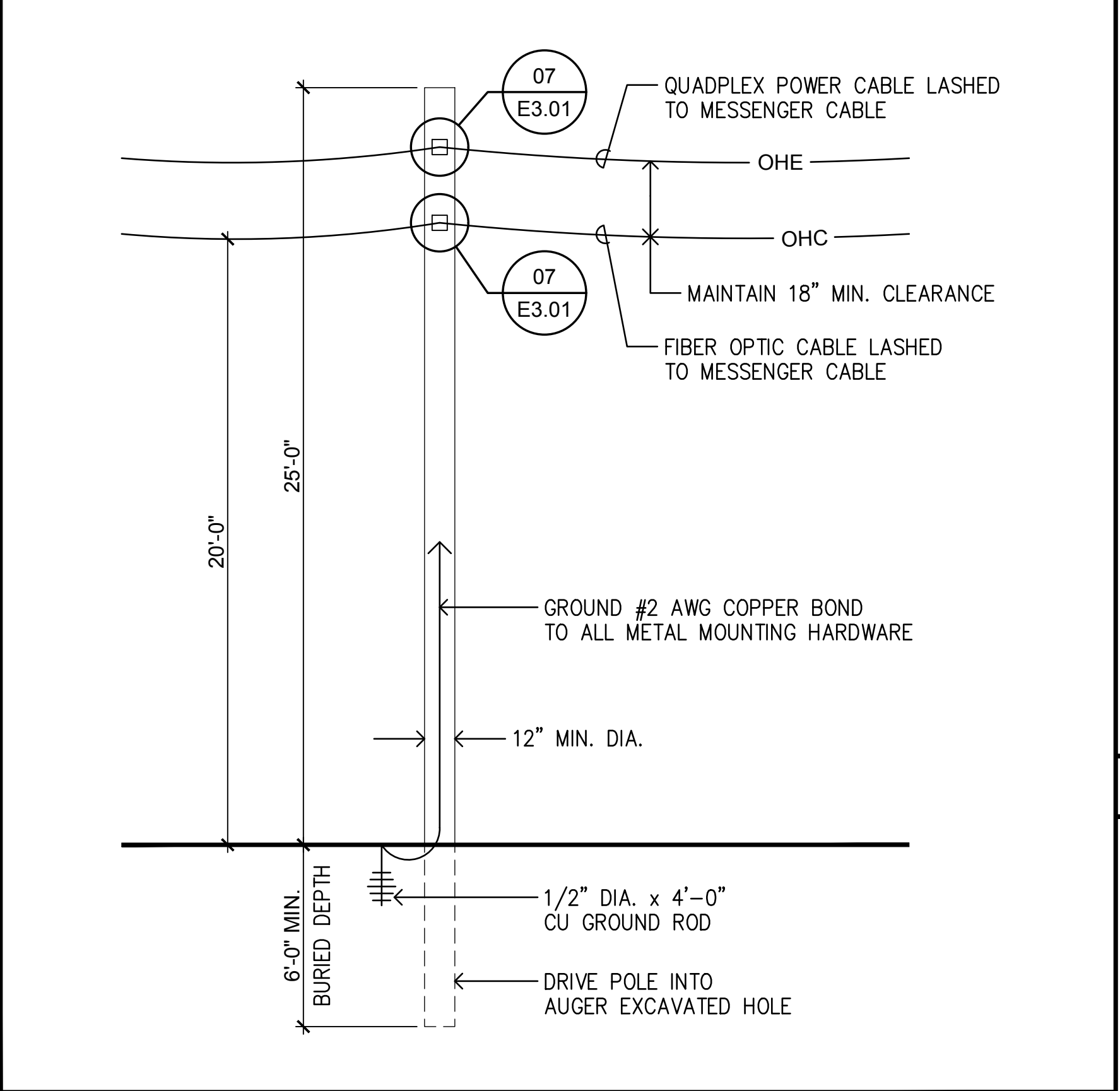
FIBER OPTIC CABLE DEADEND 08



TYPICAL CABLE MOUNTING DETAIL 07

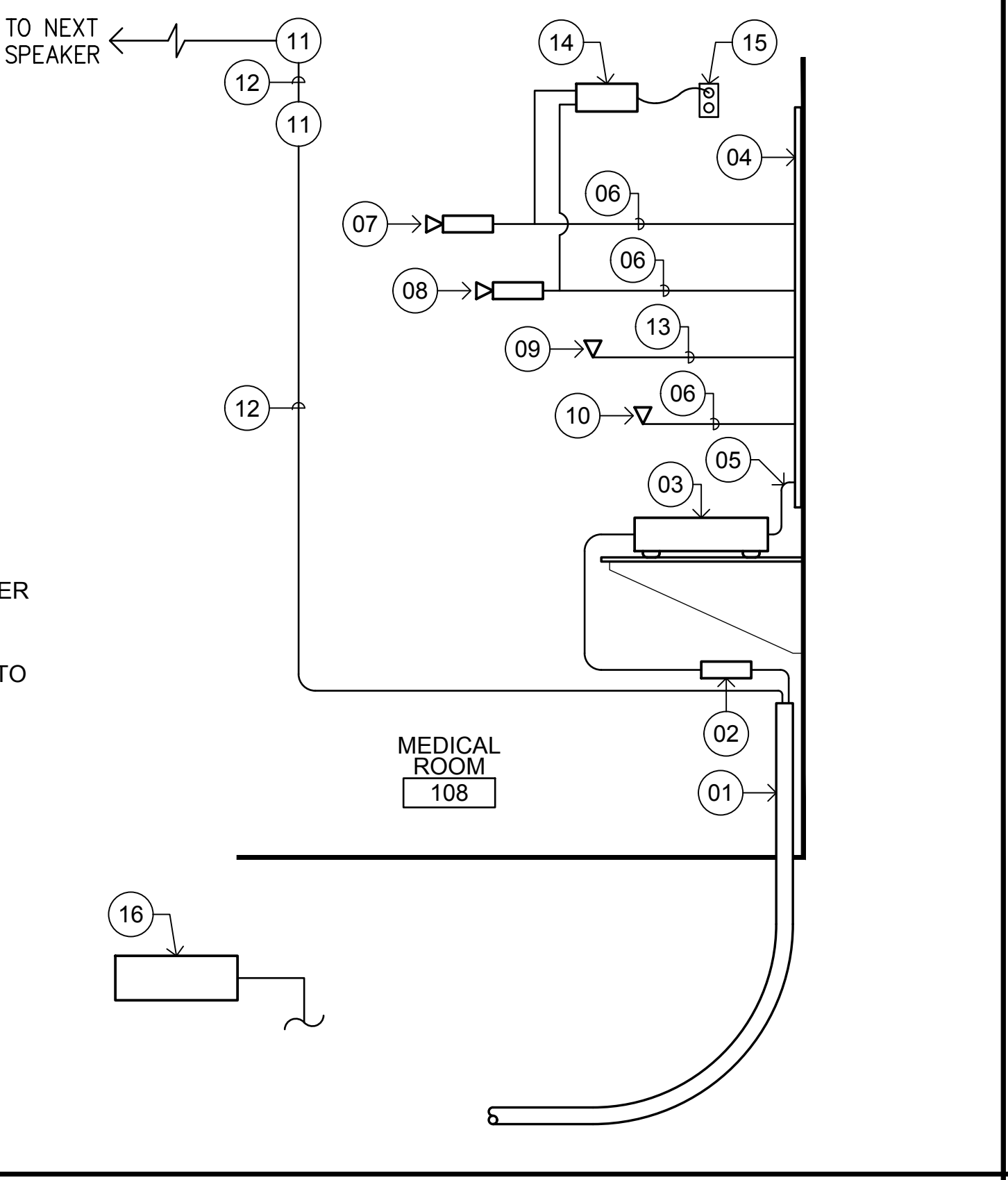


TERMINATION POLE DETAIL 06



UTILITY POLE DETAIL 05

- KEY NOTES**
- 01 PROVIDE 24-STRAND MULTI-MODE 50-MICRON FIBER CABLE AND AUDIO CABLE IN 2" CONDUIT TO HANDHOLE/UTILITY POLES AND FOOD SCIENCES BUILDING. REFER TO DETAIL 01/E3.01.
 - 02 PROVIDE FIBER CONVERTER.
 - 03 PROVIDE PATCH PANEL WITH WALL-MOUNT BRACKET.
 - 04 PROVIDE 48" SQUARE x 3/4" PLYWOOD PANEL FOR CONDUIT TERMINATION. PLYWOOD PANEL TO BE PAINTED BY THE GENERAL CONTRACTOR.
 - 05 PROVIDE CABLES CONTINUOUS TO PATCH PANEL WITHOUT SPLICES.
 - 06 PROVIDE UTP CABLE PER TECHNICAL SPECIFICATIONS IN NM CONDUIT.
 - 07 SECURITY CAMERA (C-1), EXTERIOR AND INTERIOR. QUANTITY PER DRAWING E2.01.
 - 08 "EWE-TUBE" VIDEO STREAM CAMERA (C-2). QUANTITY PER DRAWING E2.01.
 - 09 DATA PORT FOR WIFI RECEIVER/TRANSPONDER. QUANTITY PER DRAWING E2.01. WIFI RECEIVER/TRANSPONDER TO BE PROVIDED BY THE SCHOOL DISTRICT OF PHILADELPHIA.
 - 10 DATA PORT FOR WALL-MOUNTED PHONE AT OPEN AREA 103. QUANTITY PER DRAWING E2.01. PHONE DEVICE TO BE PROVIDED THE SCHOOL DISTRICT OF PHILADELPHIA.
 - 11 SPEAKER QUANTITY PER DRAWING E2.01.
 - 12 AUDIO CABLE IN NM CONDUIT. (AT 106, 107 & 108. CABLE MAY RUN ABOVE FRP CEILING WITHOUT CONDUIT.)
 - 13 PROVIDE (2) UTP CABLE PER TECHNICAL SPECIFICATIONS IN NM CONDUIT.
 - 14 POWER OVER ETHERNET INJECTOR.
 - 15 120V RECEPTACLE. LOCATE AS REQUIRED. CIRCUIT B1-30.
 - 16 IP CAMERA VIDEO MANAGEMENT SYSTEM. LOCATE AT SCHOOL SECURITY OFFICE. CONNECT TO NEW CAMERAS AT BARN VIA SCHOOL'S NETWORK.



DATA/SECURITY SINGLE-LINE DIAGRAM 04

ELECTRIC UNIT HEATER SCHEDULE													
NO.	LOCATION	TYPE	CAPACITY		AIR-SIDE DATA			ELECTRICAL DATA			BASIS OF DESIGN		NOTES
			MBH REQ'D	KW	CFM	EAT	LAT	AMPS	RPM	V/Ø/HZ	MANUFACTURER	MODEL NO.	
EW-1	TOILET ROOMS	CABINET SURF MTD	5.1	1.5	65	60.0	98.0	7.3	-	208/1/60	Q MARK	CWH1202DSAF	1, 2, 6
EW-2	MEDICAL ROOM	CABINET SURF MTD	6.8	2.0	65	60.0	85.0	9.6	-	208/1/60	Q MARK	CWH1208DSAF	1, 2, 6
EW-3	WASH ROOM	WALL MOUNTED	6.8	2.0	700	60.0	85.0	10.7	-	208/1/60	Q MARK	QWD02812	3, 4, 5, 6

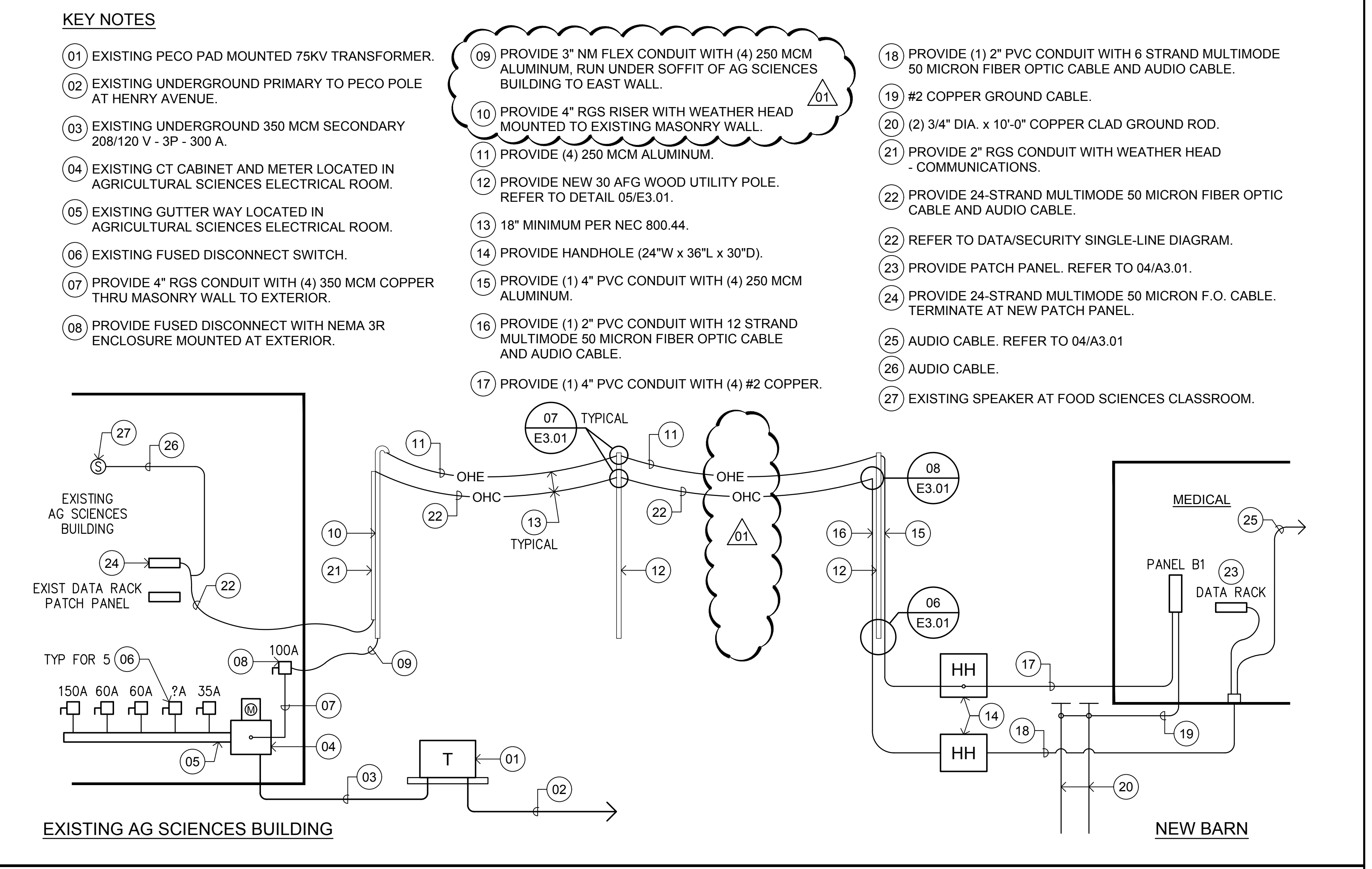
- NOTES:
 1. INTEGRAL THERMOSTAT
 2. PROVIDE SURFACE MOUNTING FRAME: CWHSMAG.
 3. CORROSION RESISTANT ALL STAINLESS CONSTRUCTION.
 4. PROVIDE WALL MOUNTING BRACKET.
 5. PROVIDE REMOTE WALL MOUNTED THERMOSTAT.
 6. PROVIDE WALL MOUNTED (RECESSED) DOUBLE-POLE, SINGLE-THROW, KEY SWITCH FOR SERVICE DISCONNECT; MODEL HBL1222 MANUFACTURED BY HUBBELL, OR EQUAL.

ELECTRIC UNIT HEATER SCHEDULE 03

PANEL SCHEDULE												
PANEL B-1		BUILDING: LIVESTOCK BARN FLOOR: GROUND ROOM: MEDICAL ROOM 108			208/120 V AC 3 PHASE 4 WIRE + GND			BUS 100 A COPPER - KA RMS SYM. □ MAIN LUGS ONLY ■ SURFACE MOUNTED ■ BOLTED BRANCH C.B.			- KA RMS SYM. □ 100 A MAIN C.B. □ FLUSH MOUNTED □ PLUG-IN BRANCH C.B.	
CKT NO	CIRCUIT DESCRIPTION	MINIMUM WIRE SIZE	CIRCUIT BREAKER	CONN LOAD	PHASE	CONN LOAD	CIRCUIT BREAKER	MINIMUM WIRE SIZE	CIRCUIT DESCRIPTION	CKT NO		
1	RECEPTACLES	2#12, 1#12G	20A/1P	1.08		1.08	20A/1P	2#12, 1#12G	RECEPTACLES	2		
3	RECEPTACLES	2#12, 1#12G	20A/1P	0.36		0.90	20A/1P	2#12, 1#12G	RECEPTACLES	4		
5	UNDERCOUNTER REFRIGERATOR	2#12, 1#12G	15A/1P	0.18		0.25	20A/1P	2#12, 1#12G	DATA RACK MEDICAL ROOM 107	6		
7	SWH-1 IN MEDICAL ROOM 108	2#8, 1#8G	40A	14.4		0.34	20A/1P	2#12, 1#12G	INTERIOR LIGHTING WEST	8		
9			2P			1.02	20A/1P	2#12, 1#12G	INTERIOR LIGHTING EAST	10		
11	EW-1 IN MENS TOILET 110	2#12, 1#12G	20A	1.52		0.42	20A/1P	2#12, 1#12G	INTERIOR LIGHTING SOUTH	12		
13			2P			0.19	20A/1P	2#12, 1#12G	INTERIOR LIGHTING LOFT	14		
15	EW-1 IN WOMENS TOILET 109	2#12, 1#12G	20A	1.52		0.40	20A/1P	2#12, 1#12G	EXTERIOR LIGHTING	16		
17			2P			1.92	20A	2#12, 1#12G	SEWAGE PUMP	18		
19	EW-2 IN MEDICAL ROOM 108	2#12, 1#12G	20A	2.00			2P			20		
21			2P			0.38	20A/1P	2#12, 1#12G	EF-1 AND PF-1	22		
23	EW-3 IN WASH ROOM 107	2#12, 1#12G	20A	2.18		2.08	20A/1P	2#12, 1#12G	OVERHEAD COILING DOORS	24		
25			2P				20A		SPARE	26		
27	RECEPTACLES IN WASH ROOM 107	2#12, 1#12G	20A/1P	0.25			2P			28		
29	SPARE		20A/1P			0.08	20A/1P	2#12, 1#12G	CCTV CAMERAS	30		
31	SPARE		20A/1P				20A/1P		SPARE	32		
33	SPARE		20A						SPACE	34		
35			2P						SPACE	36		
37	SPACE								SPACE	38		
39	SPACE								SPACE	40		
41	SPACE								SPACE	42		

REMARKS:
 LIGHTING 2.45 KVA HEATING 7.22 KVA
 RECEPTACLES 4.03 KVA MISCELLANEOUS 18.78 KVA
 AC 0 KVA
 TOTAL CONNECTED LOAD 32.48 KVA 58 A

PANEL SCHEDULE 02



ELECTRICAL DATA/SECURITY SINGLE LINE DIAGRAM 01

BID SUBMISSION
MARCH 2, 2018

NO.	DATE	REVISION
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1	04.18.18	ADDENDUM NO. 2

SCHOOL & LOCATION

W.B. SAUL HIGH SCHOOL
900 WISES MILL ROAD
PHILADELPHIA, PA 19128

PROJECT TITLE
NEW LIVESTOCK CENTER

DRAWING TITLE
ELECTRICAL SINGLE-LINE DIAGRAM & SCHEDULES

LOCATION NO.	FILE NO.
6040	
DRAWN BY	CHECKED BY
RJC	DRV

8-011	OF	2017 / 18
8-012	OF	2017 / 18
8-013	OF	2017 / 18

DRAWING NO.
E3.01
SHEET 29 OF 29