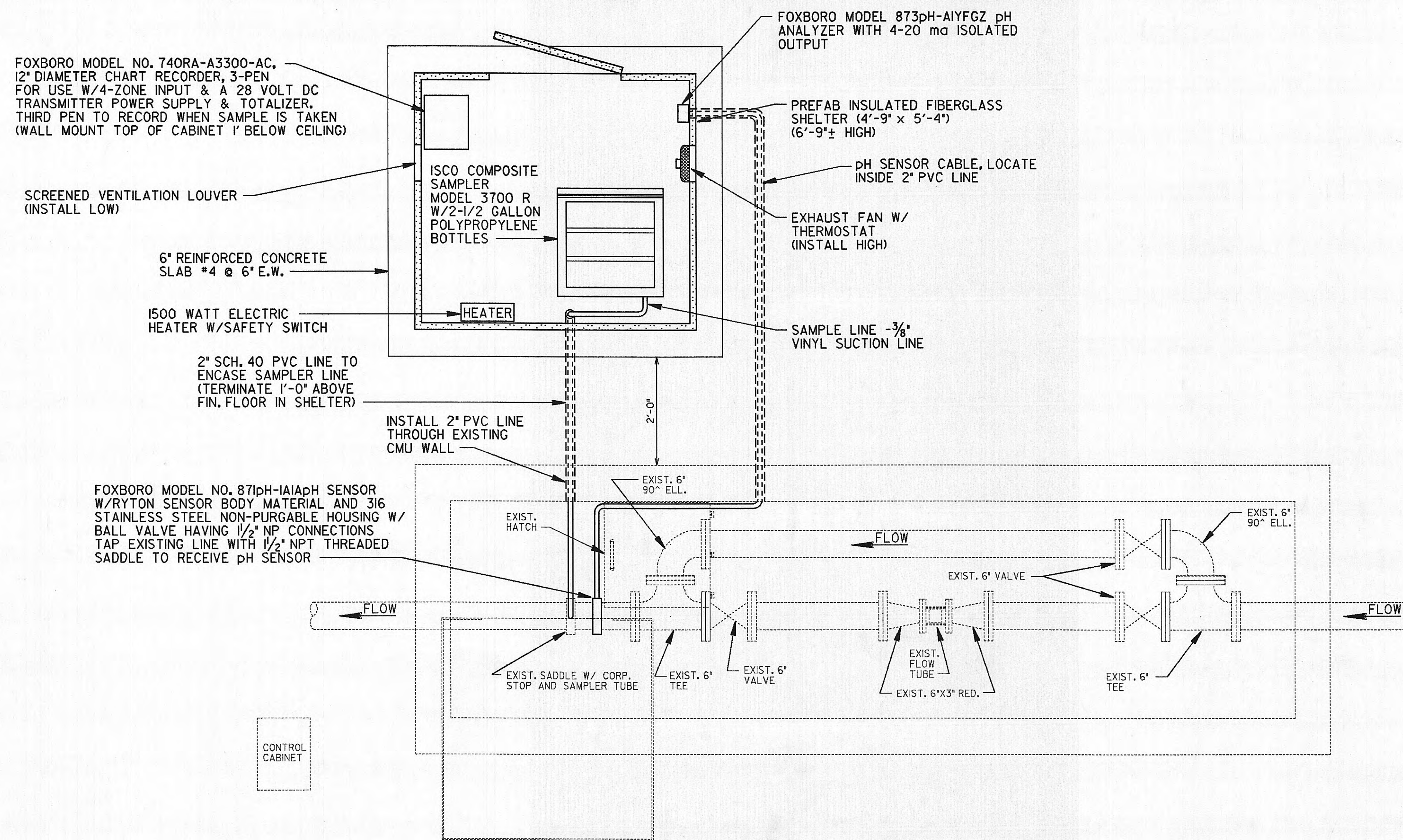
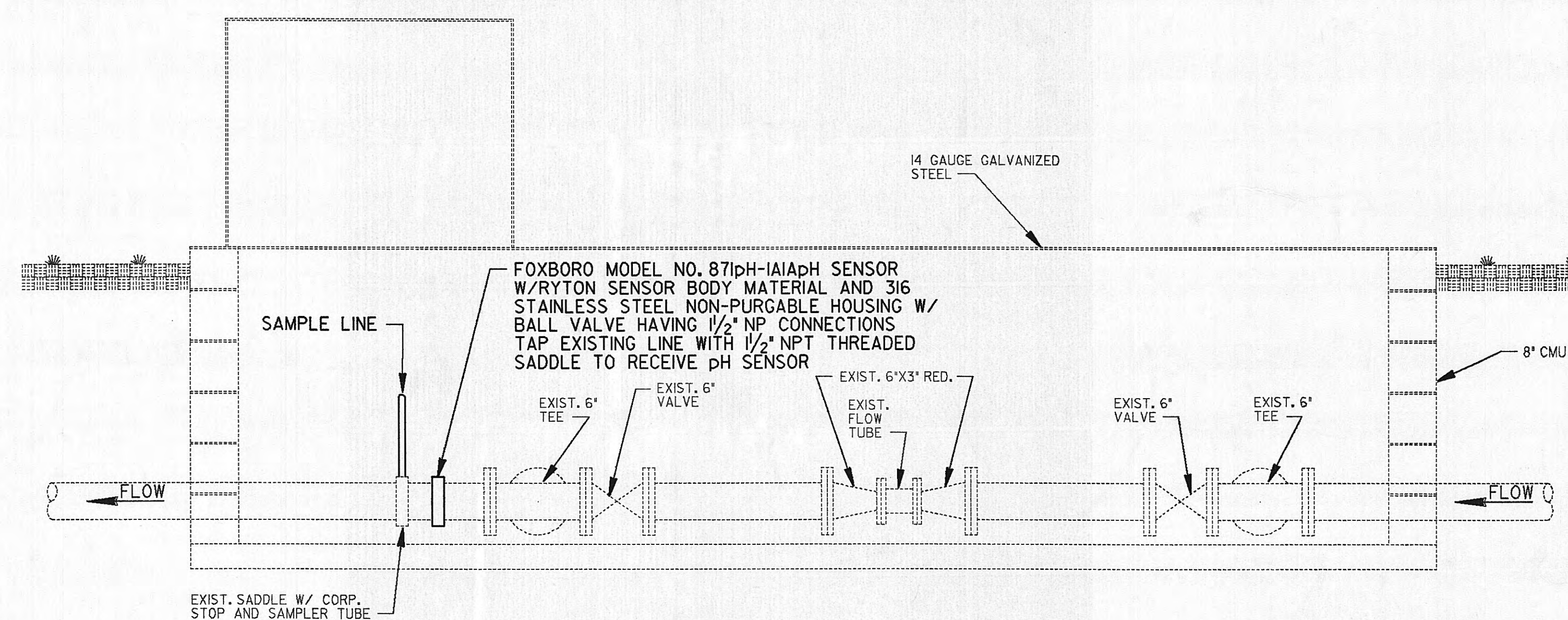




GENERAL NOTES:

1. PREFABRICATED SHELTER SHALL BE OF MOLDED FIBERGLASS CONSTRUCTION, FACTORY PRE-ASSEMBLED W/NO EXTERNAL SEAMS OR JOINTS. WALLS AND ROOF SHALL BE EQUIPPED W/A 3" WIDE EXTERNAL MOUNTING FLANGE AROUND THE ENTIRE LOWER PERIMETER. WALLS & ROOF SHALL BE OF SANDWICH CONSTRUCTION OF 1/8" THICK FIBERGLASS & A 1" THICK RIGID FOAM CORE (R VALUE=2.7). DOOR SHALL BE 1 1/4" THICK. BOTH THE EXTERIOR & INTERIOR OF THE SHELTER SHALL BE FINISHED WHITE POLYESTER GEL COAT. SHELTER SHALL BE FURNISHED W/INTERIOR VAPOR-RESISTENT LIGHT, 115 VOLT DUPLEX OUTLETS, 30 AMP DUPLEX FUSE BOX, A 12"x18" WIRE REINFORCED CLEAR PVC WINDOW SHALL BE FURNISHED IN THE DOOR.
2. SHELTER TO BE DELIVERED WITH pH TRANSMITTER AND FLOW RECORDER MOUNTED AND PREWIRED TO POWER SUPPLIES.
3. ALL CONCRETE WORK SHALL CONFORM TO ACI 301-72 (AS REVISED).
4. THE STRENGTH OF THE CONCRETE SHALL BE 3000 PSI AND SHALL BE AIR ENTRAINED WHERE EXPOSED TO WEATHER. CONCRETE SHALL BE PROPORTIONAL AND PRODUCED TO HAVE A SLUMP OF 3" WITH A 1" TOLERANCE.
5. THE YIELD STRENGTH OF REINFORCING STEEL SHALL BE 60,000 PSI.



METERING STATION

POWER PAPER  
CITY OF HARRIMAN, TENNESSEE

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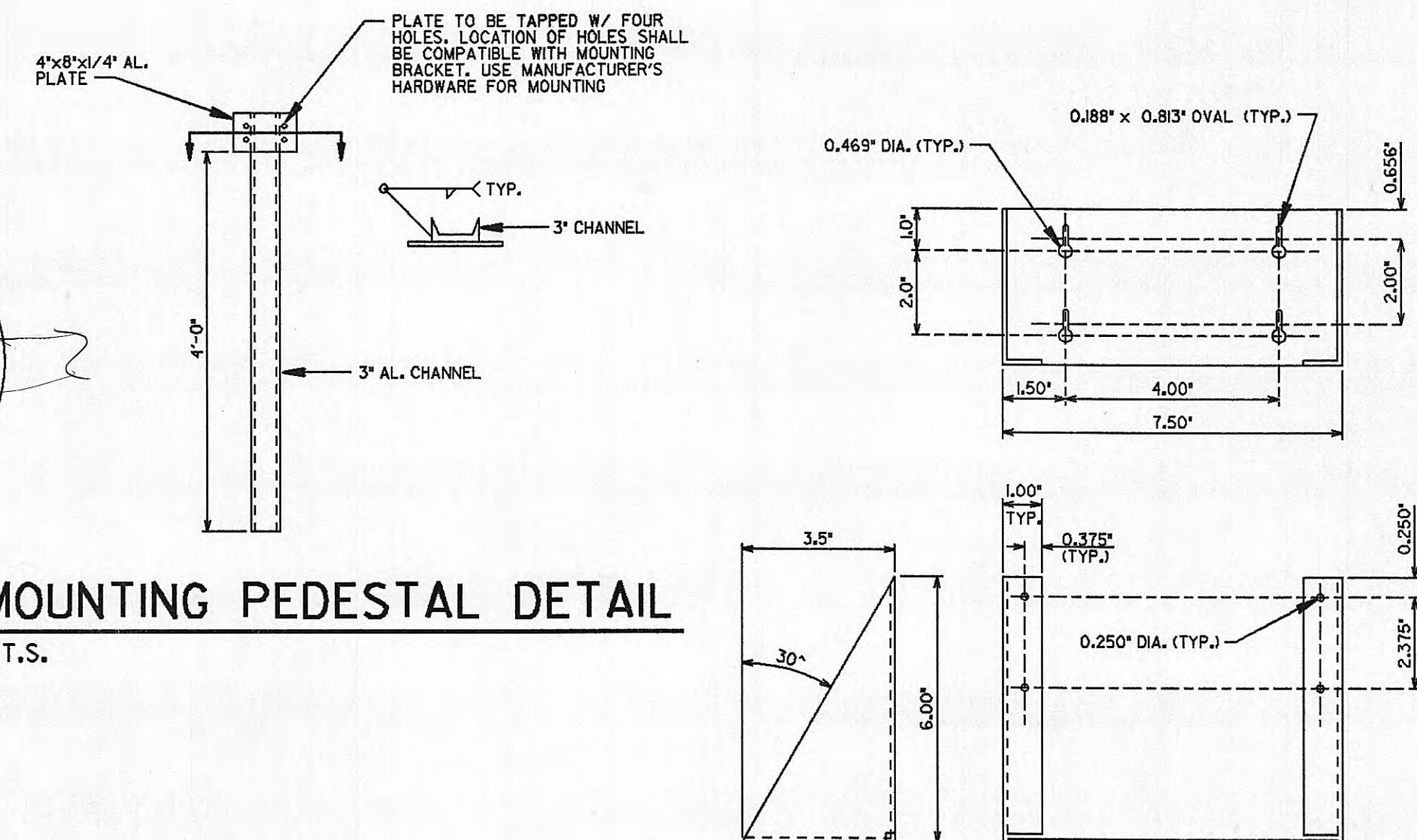
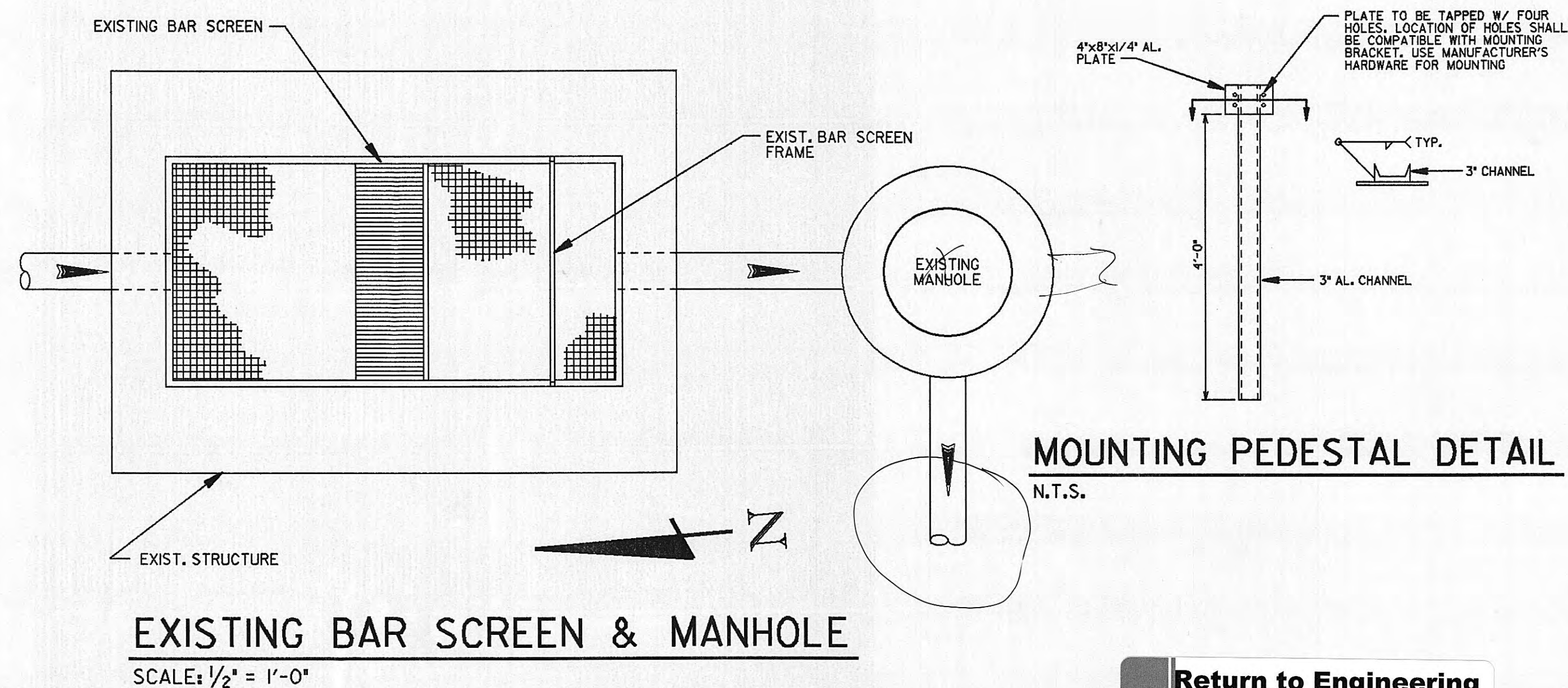
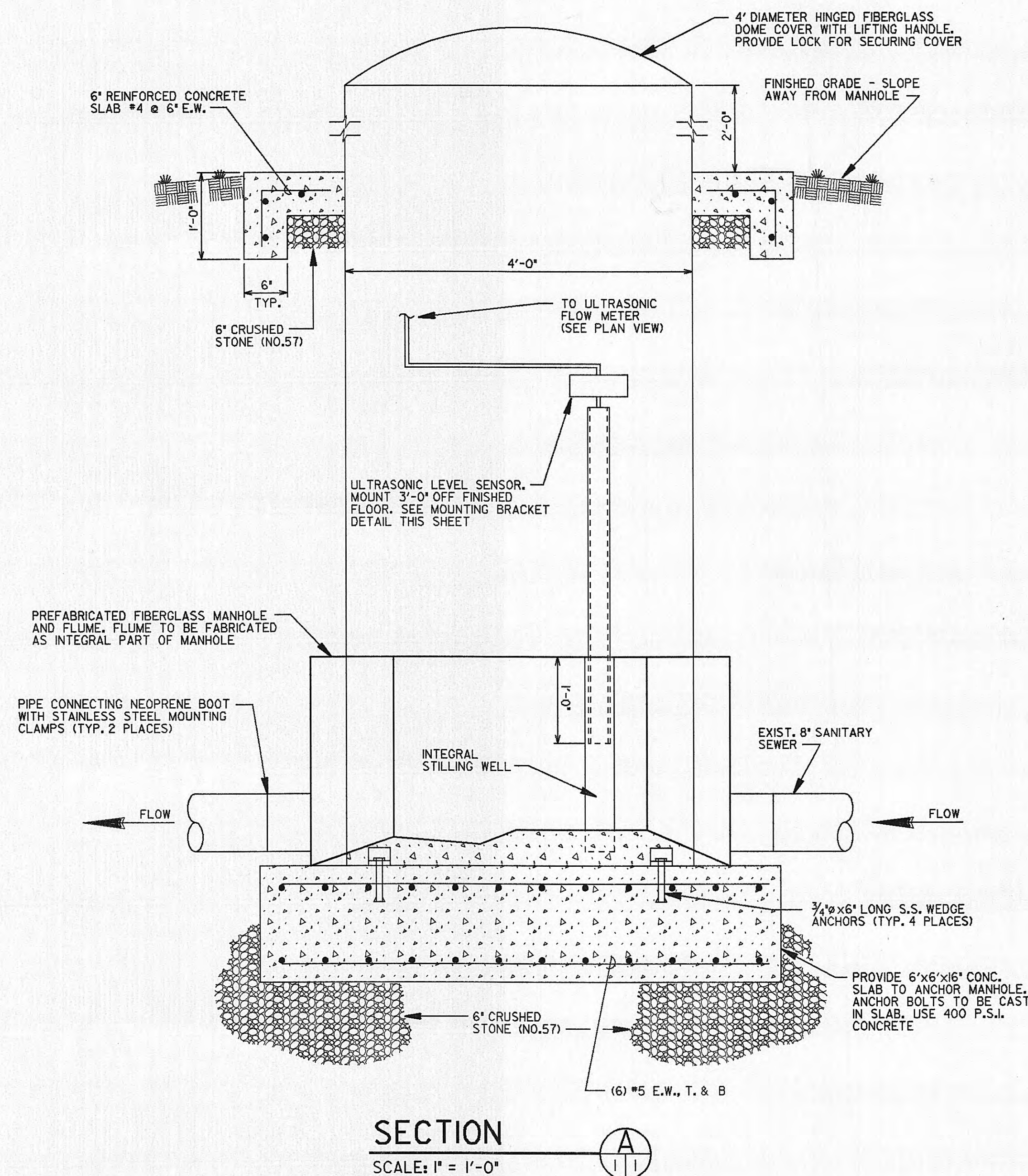
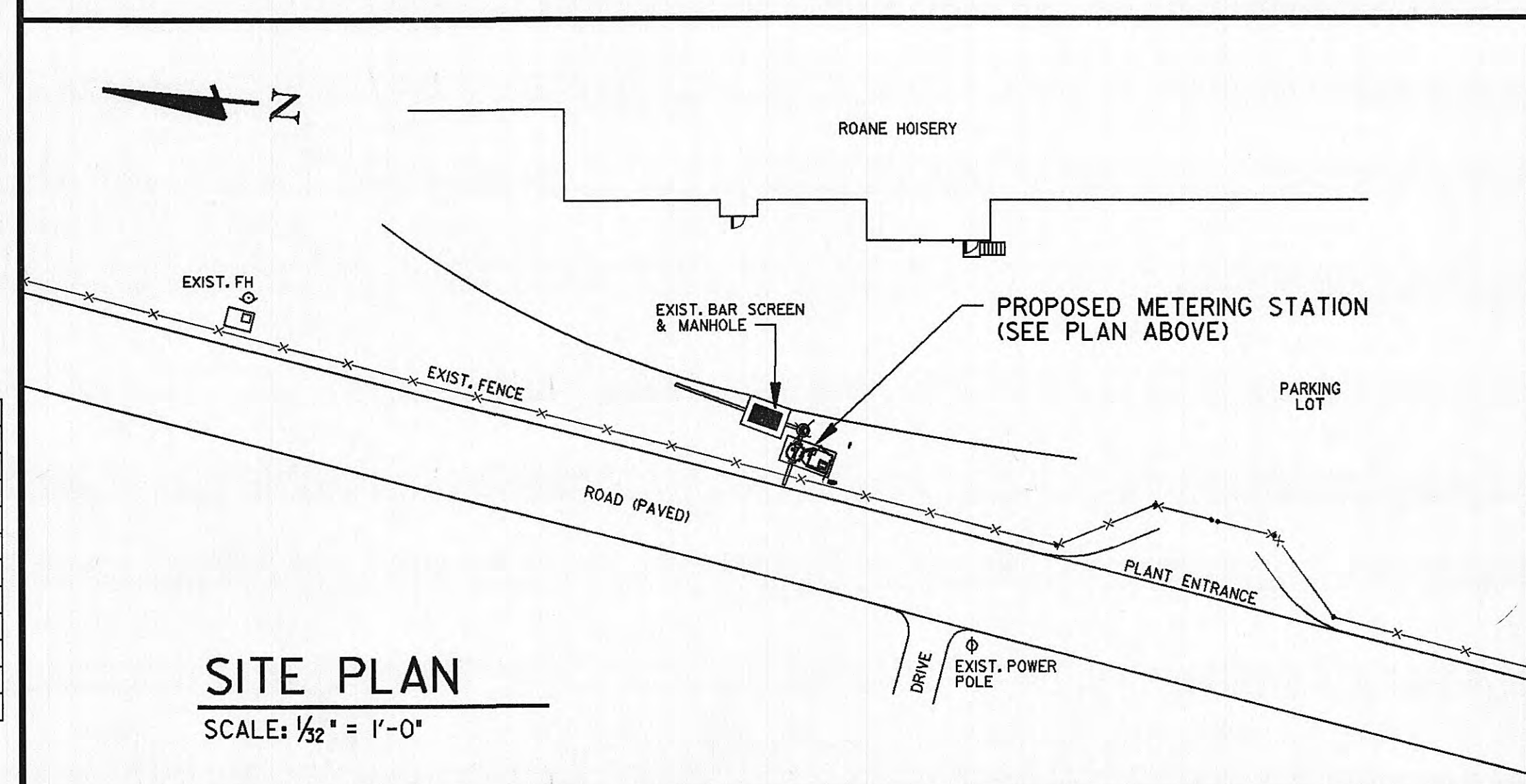
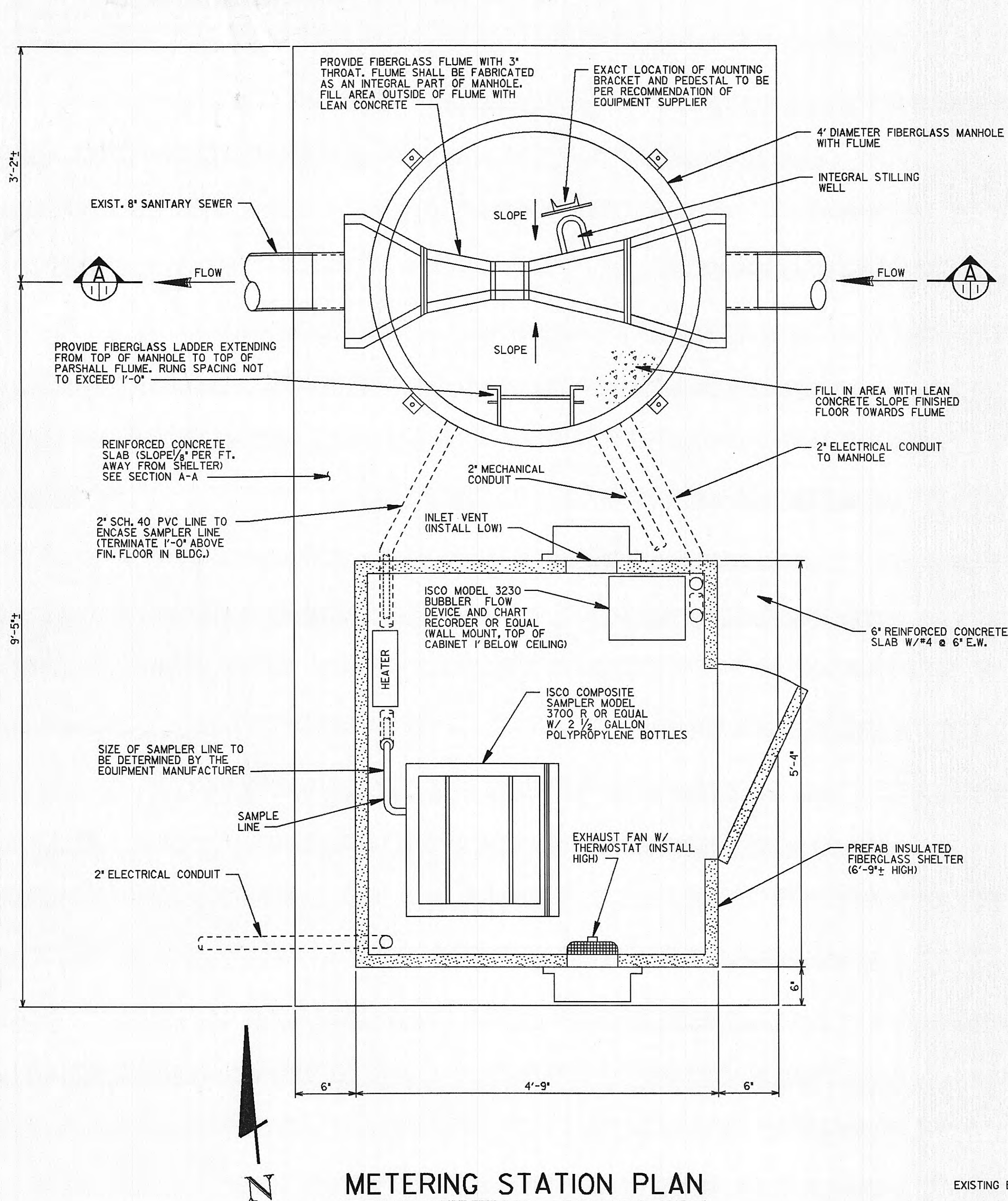
## Return to Engineering Flat File Drawer 4

FILE NO. 13148-20

S-255-D

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12-OCT-1992  
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GENERAL NOTES:

1. A FIBERGLASS PACKAGED METERING MANHOLE SHALL BE FURNISHED AS MANUFACTURED BY TRACOM, INC., PLASTI-FAB OR EQUAL.
2. EACH PACKAGED METERING MANHOLE SHALL BE A COMPLETELY INTEGRAL UNIT CONSISTING OF A 48-INCH DIAMETER CORROSION RESISTANT FIBERGLASS REINFORCED PLASTIC (FRP) MANHOLE W/ SEALED FIBERGLASS BOTTOM, FIBERGLASS ACCESS LADDER, W/ 12" FLUME, 12" COVER, 12" EXPANDED POLYSTYRENE BEAD BOARD, THE FLUME SHALL BE A 3-INCH PARSHALL TYPE WITH PIPE STUBS DESIGNED TO MATE WITH 8-INCH OUTSIDE DIAMETER INCOMING AND OUTGOING PVC PIPE. TWO NEOPRENE BOOTS W/ STAINLESS STEEL CLAMPS SIZED TO CONNECT THE INLET & OUTLET PIPES TO THE MANHOLE PIPE STUBS SHALL BE SUPPLIED BY THE MANHOLE MANUFACTURER. THE MANHOLE WILL BE EQUIPPED W/ HOLD DOWN BRACKETS FOR ANCHORING THE UNIT TO A CONCRETE SLAB. 1/2-INCH DIA. COVER SHALL OVERLAY THE METERING MANHOLE SHALL BE SUPPLIED FOR PLACEMENT ON THE CONCRETE SLAB UNDER THE MANHOLE.
3. THE PACKAGED METERING MANHOLE WILL BE FURNISHED WITH A FIBERGLASS COVER EQUIPPED WITH A STAINLESS STEEL HINGE AND STAINLESS STEEL HASP FOR LOCKING. THE COVER SHALL BE OF SUFFICIENT STRENGTH TO WITHSTAND A 1000-POUND LOAD. THE COVER SHALL BE PROVIDED WITH A HINGE AND SEAT ON A NEOPRENE SEAL TO PREVENT DIRT, RAIN AND DEBRIS FROM GETTING INTO THE MANHOLE.
4. METERING MANHOLE SHALL BE DESIGNED AND MANUFACTURED IN ACCORDANCE WITH ANSI/ASTM D-3753-79 STANDARD SPECIFICATION FOR FIBER REINFORCED PLASTICS. THE FIBERGLASS MANHOLE SHALL BE FABRICATED IN ONE INTEGRAL PIECE THAT IS STRUCTURALLY RIGID, NON-TOXIC, WEAR TIGHT, AND IS CORROSION RESISTANT TO SALT-WATER, GROUNDWATER, CORROSIVE SOIL CONDITIONS, AND MANY COMMONLY ENCOUNTERED INDUSTRIAL CHEMICALS.
5. THE FRP MANHOLE FLUME SHALL BE PROVIDED WITH 8-INCH PIPE STUBS FOR CONNECTION TO 8-INCH OD, INCOMING AND OUTGOING PVC PIPE.
6. METERING MANHOLE SHALL BE FURNISHED WITH AN INTERNAL FIBERGLASS LADDER TO PROVIDE ACCESS TO THE FLUME.
7. PREFABRICATED FIBERGLASS MANHOLE SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S SUGGESTED INSTALLATION INSTRUCTIONS. UPON INSTALLATION, THE METERING AND METERING MANHOLE SHALL BE TESTED WITH A KNOWN VOLUME OF FLOW AND IF NECESSARY, THE METERING EQUIPMENT SHALL BE CALIBRATED.
8. STRIP CHART PAPER SHALL BE 30-DAY, A ONE YEAR SUPPLY OF STRIP CHART PAPER SHALL BE PROVIDED.
9. SEAL ALL PENETRATIONS THROUGH MANHOLE WITH WATER TIGHT MATERIAL.
10. MANHOLE SHALL BE INSTALLED ON EXISTING 8" DIAMETER SANITARY SEWER LINE AS SHOWN ON PROFILE OR AS DIRECTED BY THE OWNER. THE FLUME SHALL BE OF SANDWICH CONSTRUCTION AND DOWN STREAM PIPES TO BE FREE OF OBSTRUCTIONS.
11. PREFABRICATED SHELTER SHALL BE OF MOLDED FIBERGLASS CONSTRUCTION, FACTORY PRE-ASSEMBLED W/ NO EXTERNAL SEAMS OR JOINTS. WALLS AND ROOF SHALL BE EQUIPPED W/ A 3" WIDE EXTERNAL MOUNTING FLANGE AROUND THE ENTIRE LOWER PERIMETER. WALLS AND ROOF SHALL BE OF SANDWICH CONSTRUCTION OF THICK FIBERGLASS REINFORCED CLEAR VINYL CORE (R VALUE =2.7), DOOR SHALL BE 1/4" THICK, BOTH THE EXTERIOR AND INTERIOR OF THE SHELTER SHALL BE FINISHED WHITE POLYESTER GEL COAT. SHELTER SHALL BE FURNISHED W/ INTERIOR VAPOR-RESISTANT LIGHT, IS VUL DUPLX QTS. 30 AMP DUPLX FUSE BOX, A 12"x18" WIRE REINFORCED CLEAR PVC WINDOW SHALL BE FURNISHED IN THE DOOR.
12. SHELTER TO BE DELIVERED WITH pH TRANSMITTER AND FLOW RECORDER MOUNTED AND PREWIRED TO POWER SUPPLIES.
13. ALL CONCRETE WORK SHALL CONFORM TO ACI 301-72 (AS REVISED).
14. THE STRENGTH OF THE CONCRETE SHALL BE 3000 P.S.I. AND SHALL BE AIR ENTRAINED WHERE EXPOSED TO WEATHER. CONCRETE SHALL BE PROPORTIONAL AND PRODUCED TO HAVE A SLUMP OF 3" WITH A 1" TOLERANCE.
15. THE YIELD STRENGTH OF REINFORCING STEEL SHALL BE 60,000 P.S.I.

# METERING STATION

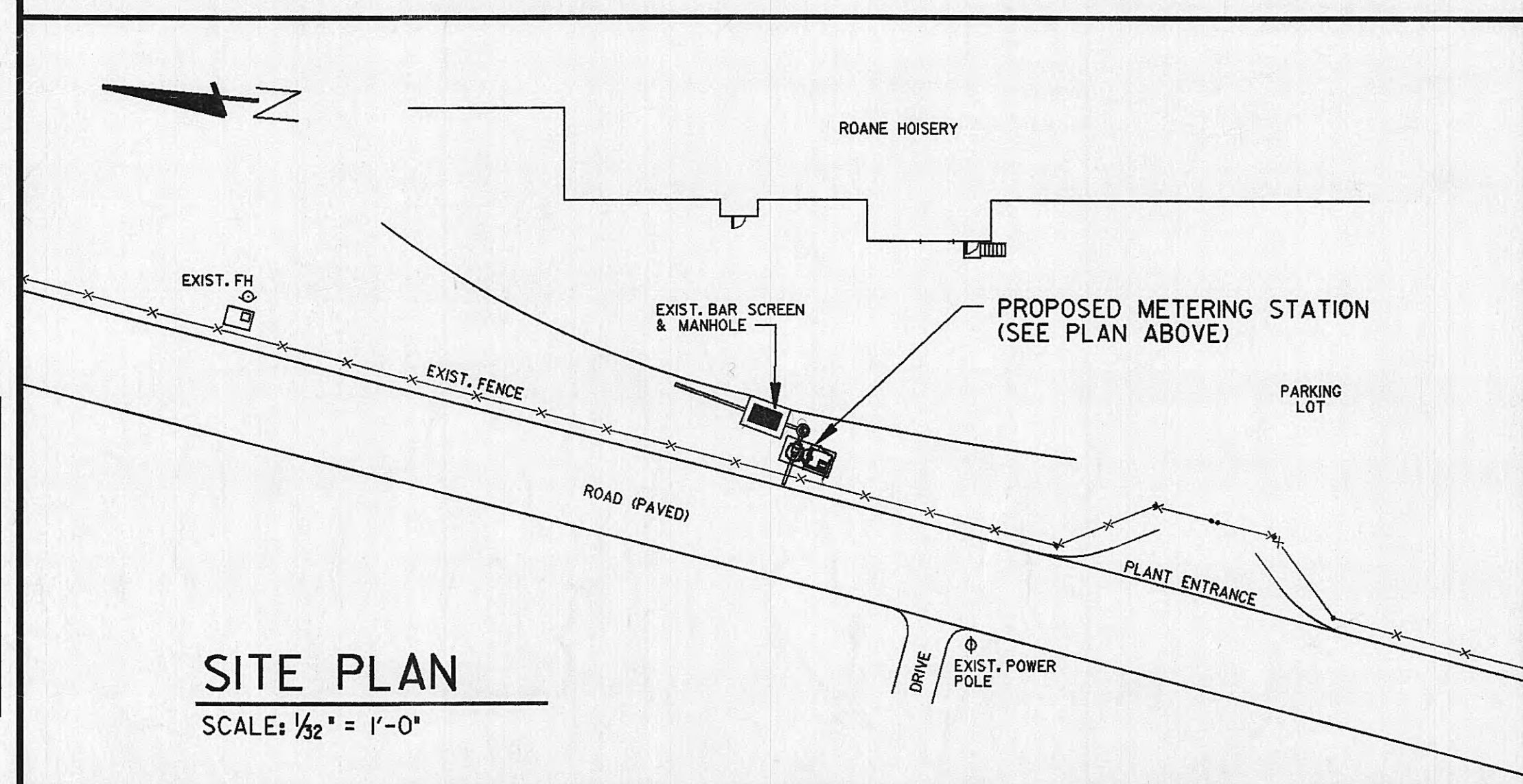
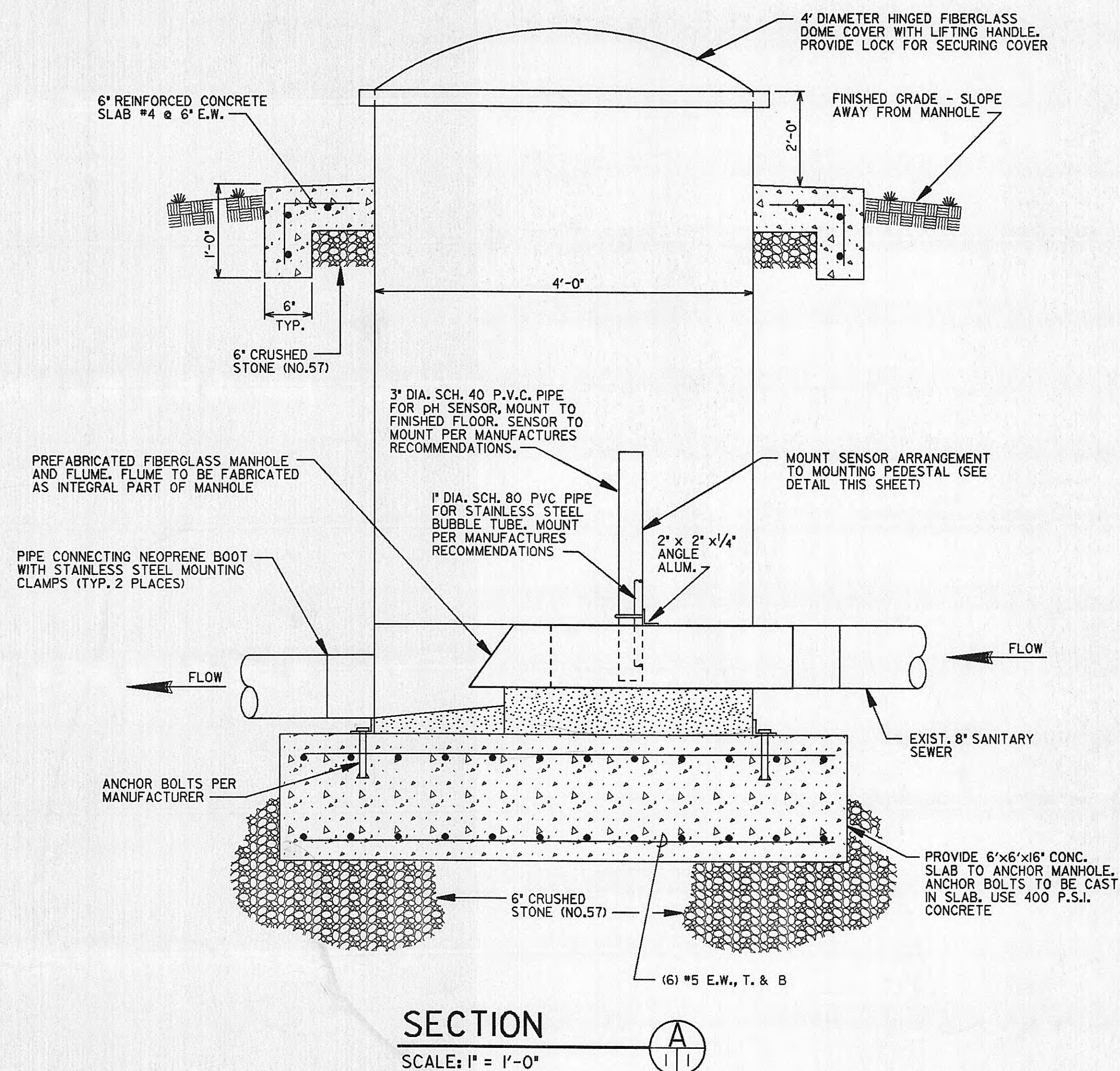
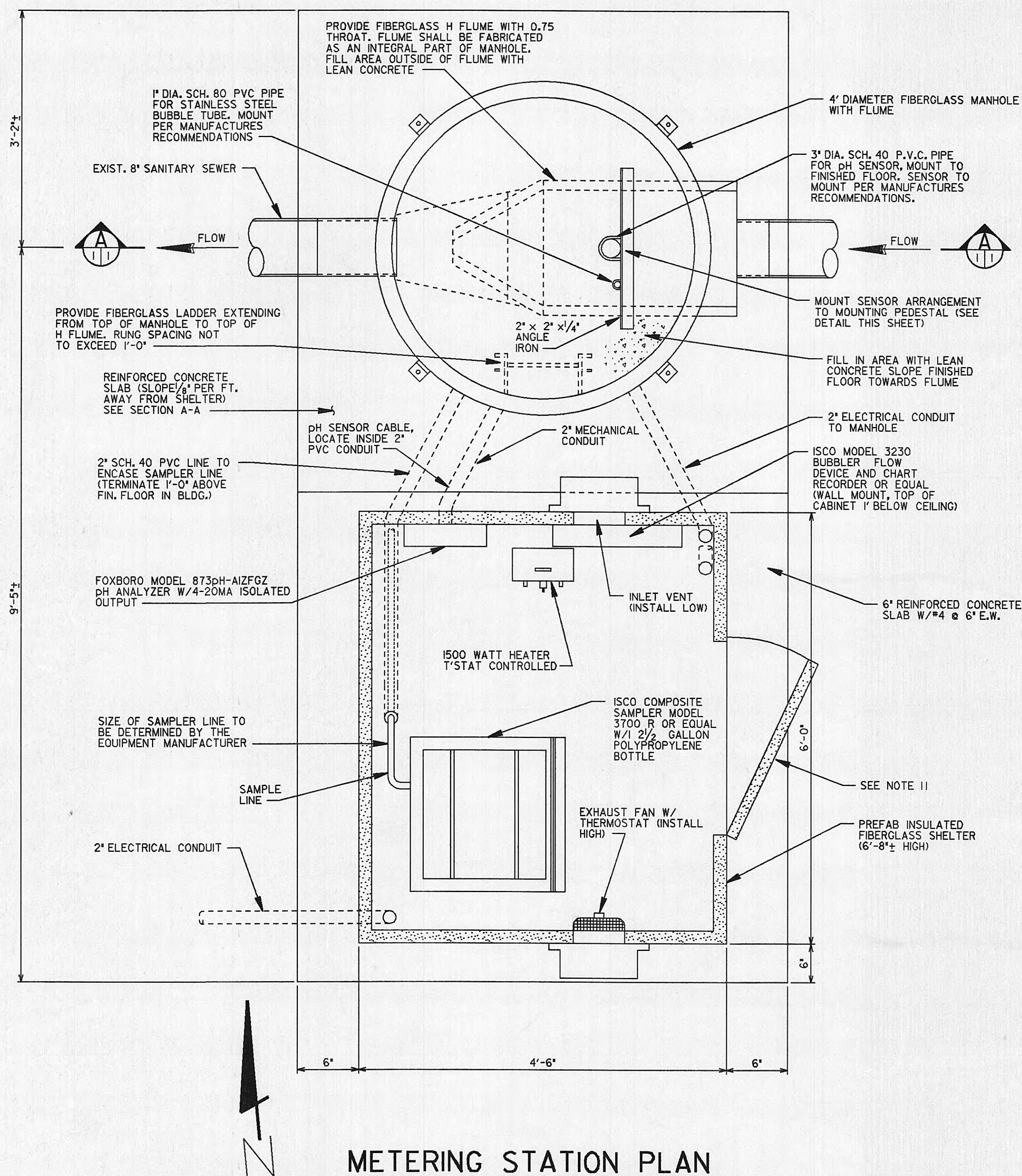
ROANE HOISERY  
CITY OF HARRIMAN, TENNESSEE

| DR. | CHK. | DATE  | DESCRIPTION    |
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| SEE | BLS  | 10/92 | ORIGINAL ISSUE |

FILE NO. 13148-20

S-256-D sheet 1





- GENERAL NOTES:

2. A FIBERGLASS PACKAGED METERING MANHOLE SHALL BE FURNISHED AS MANUFACTURED BY TRACOM, INC., PLASTIFAB OR EQUAL.
2. EACH PACKAGED METERING MANHOLE SHALL BE A COMPLETELY INTEGRAL UNIT CONSISTING OF A 48-INCH DIAMETER CORROSION RESISTANT FIBERGLASS REINFORCED PLASTIC (FRP) MANHOLE W/ SEAMLESS FIBERGLASS BOTTOM, FIBERGLASS ACCESS LADDER, METERS, FLUME AND OPTIONAL ACCESSORIES AS REQUIRED. THE FLUME SHALL BE A 3-INCH PARALLEL TYPE WITH PIPE STUBS SIZED TO MATE WITH 8-INCH OUTSIDE DIAMETER INCOMING OUTGOING PVC PIPE. TWO NEOPRENE BOOTS W/ STAINLESS STEEL CLAMPS SIZED TO CONNECT THE INLET & OUTLET PIPES TO THE MANHOLE PIPE STUBS SHALL BE SUPPLIED BY THE MANUFACTURER. THE MANHOLE WILL BE EQUIPPED W/ HOLD DOWN BRACKETS. THE MANHOLE SHALL BE SET ON A CONCRETE SLAB. A 1/2-INCH THICK EXPANDED POLYSTYRENE BEAD BOARD SHALL BE SUPPLIED FOR PLACEMENT ON THE CONCRETE SLAB UNDER THE MANHOLE.
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4. METERING MANHOLE SHALL BE DESIGNED AND MANUFACTURED IN ACCORDANCE WITH ANSI/ASTM D-3753, 19 STANDARD SPECIFICATION FOR FIBER REINFORCED MANHOLES. THE FIBERGLASS MANHOLE SHALL BE FABRICATED IN ONE INTEGRAL PIECE THAT IS COMPLETELY STRUCTURALLY INTEGRAL. THE COVER, HINGE, AND CORROSION RESISTANT TO SALT WATER, GROUNDWATER, CORROSIVE SOIL CONDITIONS, AND MANY COMMONLY ENCOUNTERED INDUSTRIAL CHEMICALS.
5. THE FRP MANHOLE FLUME SHALL BE PROVIDED WITH 8-INCH PIPE STUBS FOR CONNECTION TO 8-INCH O.D. INCOMING AND OUTGOING PVC PIPE.
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9. SEAL ALL PENETRATIONS THROUGH MANHOLE WITH WATER TIGHT MATERIAL.
10. MANHOLE SHALL BE INSTALLED ON EXISTING 8" DIAMETER SANITARY SEWER LINE AS SHOWN ON PROFILE OR AS DIRECTED BY OWNER. FLUME SHALL BE INSTALLED LEAD UPSTREAM AND DOWN STREAM PIPES TO BE FREE OF OBSTRUCTIONS.
11. PREFABRICATED SHELTER SHALL BE OF MOLDED FIBERGLASS CONSTRUCTION, FACTORY PRE-ASSEMBLED W/NO EXTERNAL SEAMS OR JOINTS. WALLS AND ROOF SHALL BE EQUIPPED W/A 3" WIDE EXTERNAL MOLDING CHANNEL. THE ENTIRE EXTERIOR PERIMETER, WALLS & ROOF SHALL BE OF SANDWICH CONSTRUCTION OF 1/8" THICK FIBERGLASS & A 1" THICK RIGID FOAM CORE (OR VALUE OF 1" RIGID FOAM). THE ROOF SHALL BE FINISHED WITH POLYESTER GEL COAT. SHELTER SHALL BE FURNISHED W/ INTERIOR VAPOR-RESISTANT LIGHT, IBS VOLT DUPLEX OUTLETS, 30 AMP DUPLEX BREAKER BOX, A 12"X18" W/REINFORCED CLEAR PVC WINDOW SHALL BE FURNISHED IN THE DOOR.
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15. THE YIELD STRENGTH OF REINFORCING STEEL SHALL BE 60,000 P.S.I.
16. PH METER SHALL BE FOXBORO MODEL 873pH-AIYFGZ W/4-20MA INSTALLED OUTPUT.

NOTE:  
ELECTRICAL CONNECTIONS BY OWNER  
(HARRIMAN UTILITY BOARD)

METERING STATION

ROANE HOISERY  
CITY OF HARRIMAN, TENNESSEE

| DR. | CHK. | DATE | DESCRIPTION |
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| DR. | CHK.  | DATE     |
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| SEE | DR. C | 10/10/88 |

DR.

FILE NO. 13148-20

S-256-D Sheet