

#### GENERAL NOTES:

WHERE WATER PIPE CROSSES UNDER RCP STORM SEWERS, THE RCP PIPE JOINTS SHALL MEET ASTM C433 FLAT GASKET JOINTS OR ASTM C361 "O-RING" JOINTS WITHIN 10 FEET OF THE WATER MAIN.

NOT TO SCALE



## BRUNSWICK-GLYNN JOINT WATER & SEWER COMMISSION

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Brunswick, Georgia 31520

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## UTILITY CONFLICT DETAIL

JWSC 2-2

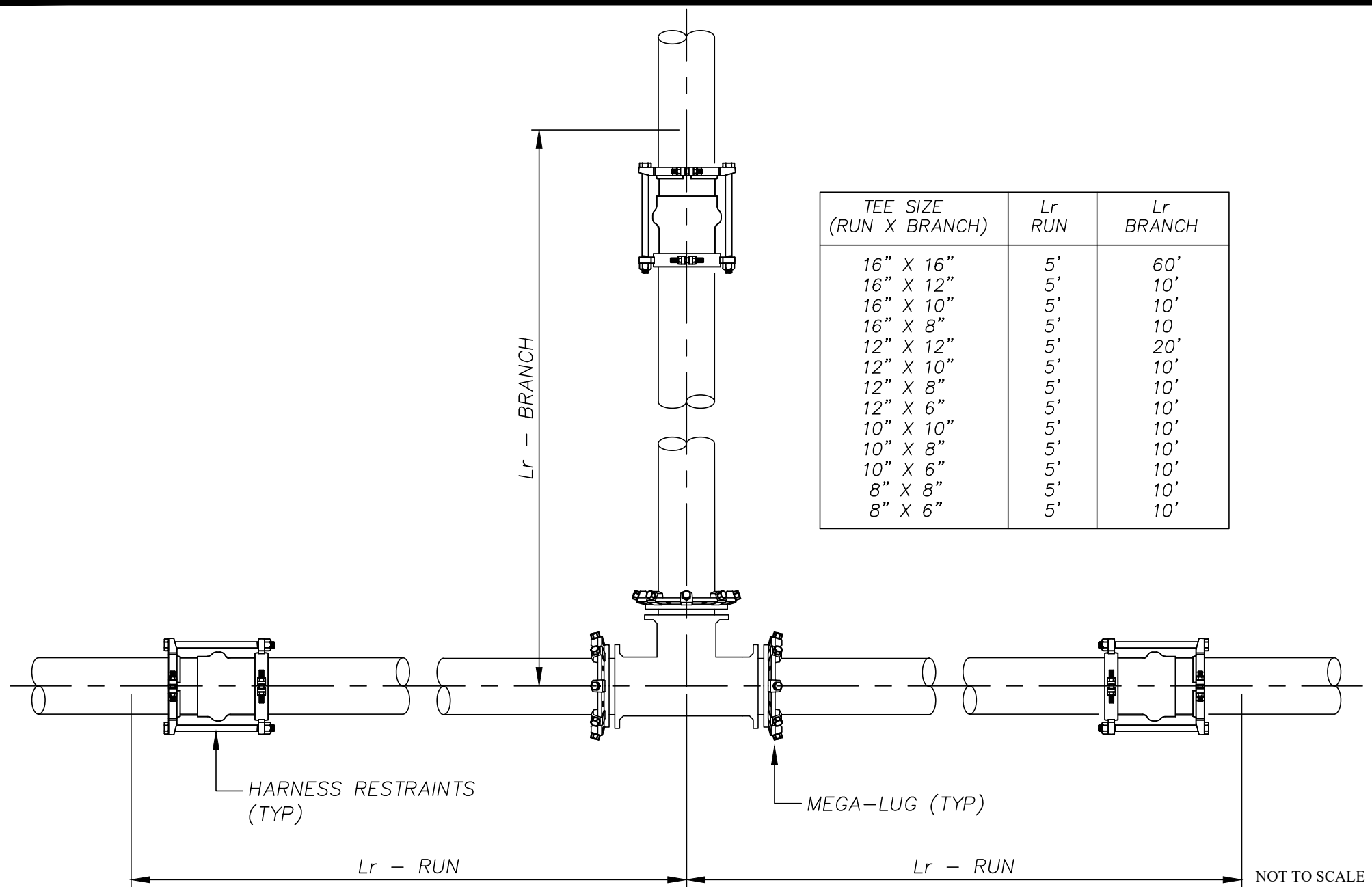
DESIGNED: BGJWSC

DRAWN: HPATEL

DATE: 05/26/2022

SCALE: NTS

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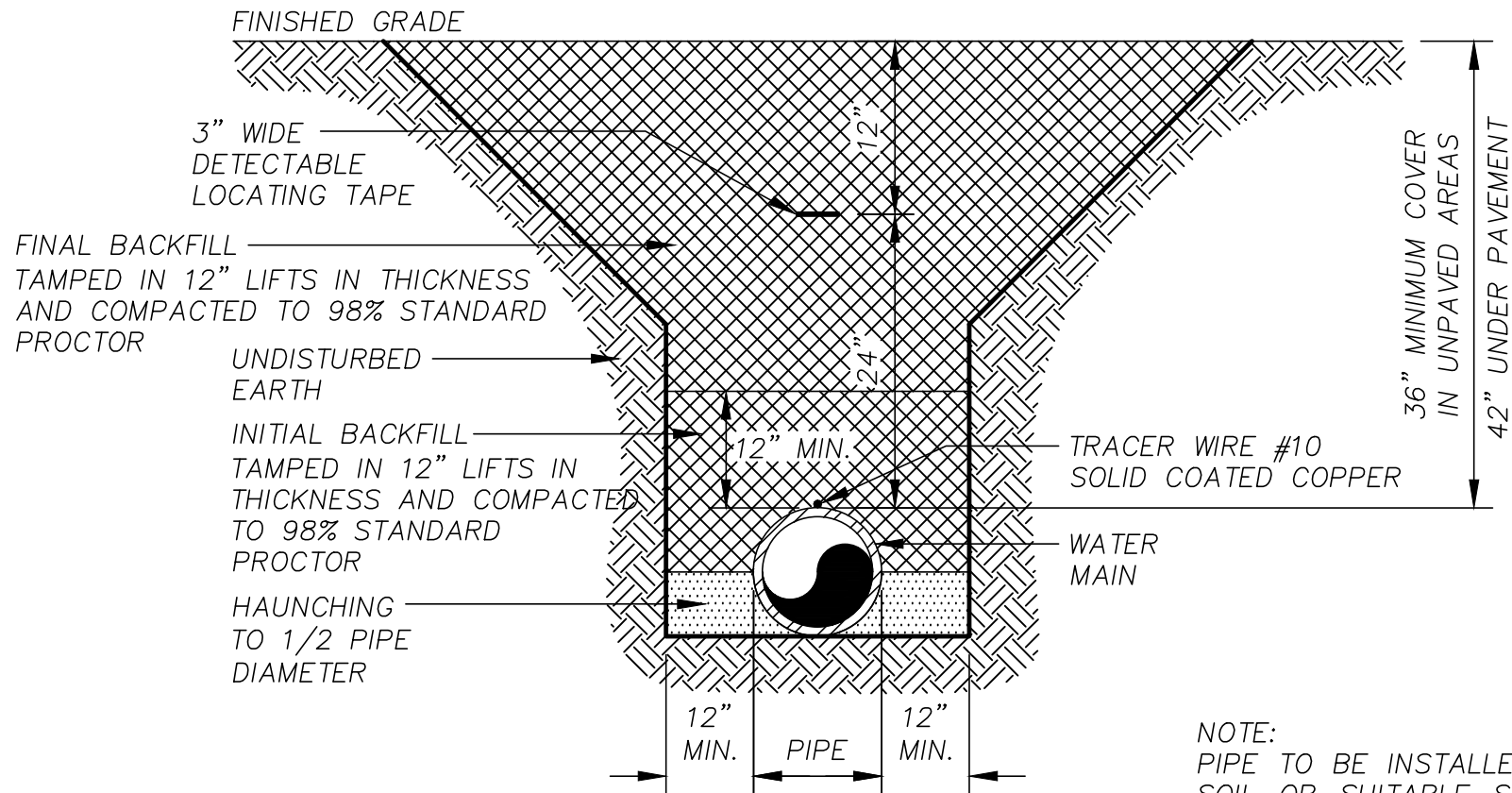
# PVC JOINT RESTRAINT TEE

**JWSC 2-3**

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NOTE:  
PIPE TO BE INSTALLED ON UNDISTURBED SOIL OR SUITABLE SOIL COMPACTED TO 98% MAXIMUM DENSITY. BELL HOLE SHALL BE DUG TO PERMIT THE ENTIRE STRAIGHT BARREL OF PIPE TO REST ON UNDISTURBED TRENCH BOTTOM.

STONES FOUND IN THE TRENCH SHALL BE REMOVED FOR A DEPTH OF AT LEAST SIX (6) INCHES BELOW THE BOTTOM OF THE PIPE.

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## PRESSURE PIPE TRENCH DETAIL

JWSC 2-1

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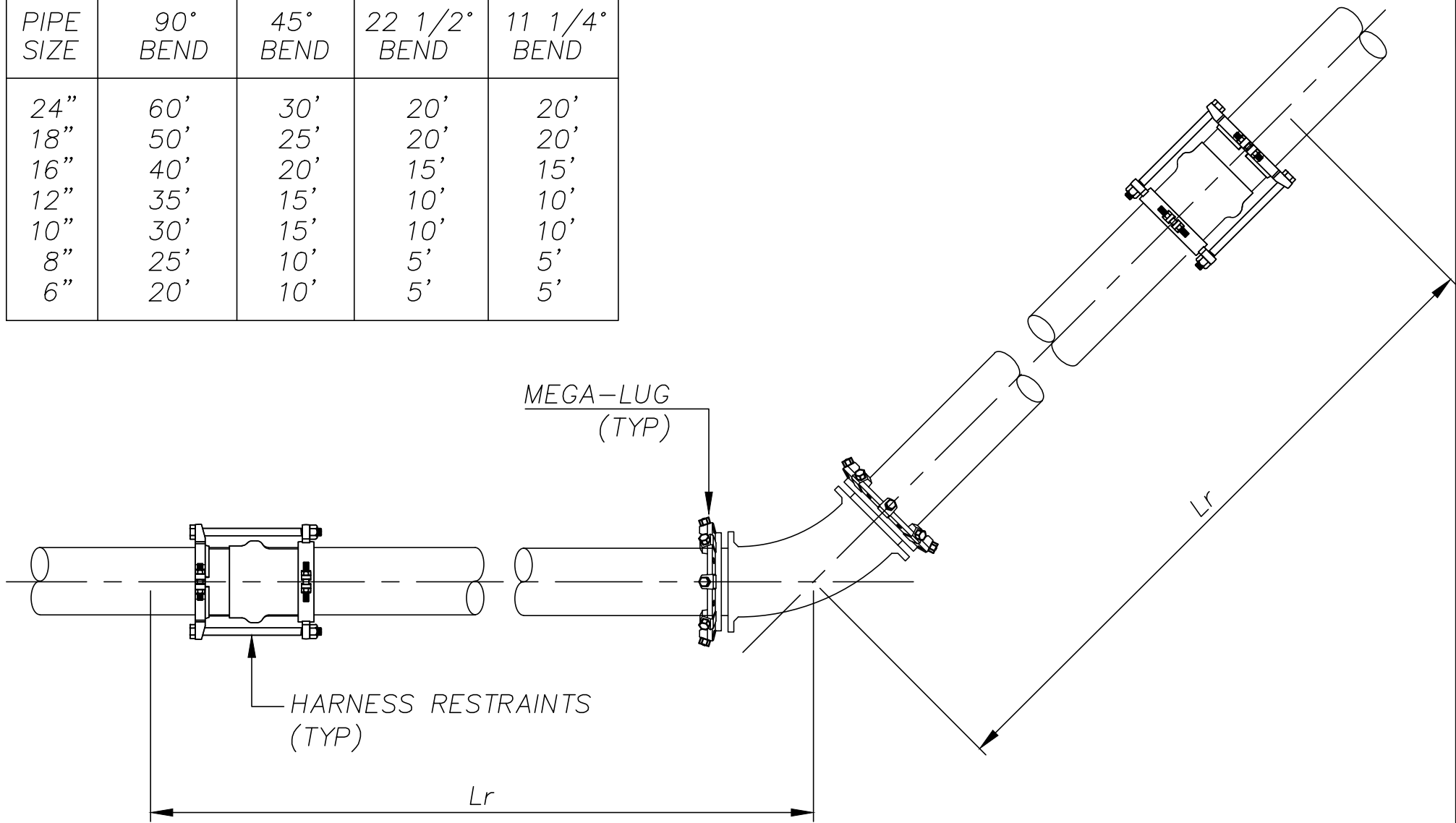
DRAWN: HPATEL

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| PIPE<br>SIZE | <i>Lr</i>   |             |                 |                 |
|--------------|-------------|-------------|-----------------|-----------------|
|              | 90°<br>BEND | 45°<br>BEND | 22 1/2°<br>BEND | 11 1/4°<br>BEND |
| 24"          | 60'         | 30'         | 20'             | 20'             |
| 18"          | 50'         | 25'         | 20'             | 20'             |
| 16"          | 40'         | 20'         | 15'             | 15'             |
| 12"          | 35'         | 15'         | 10'             | 10'             |
| 10"          | 30'         | 15'         | 10'             | 10'             |
| 8"           | 25'         | 10'         | 5'              | 5'              |
| 6"           | 20'         | 10'         | 5'              | 5'              |



NOT TO SCALE



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## PVC JOINT RESTRAINT HORIZONTAL BEND

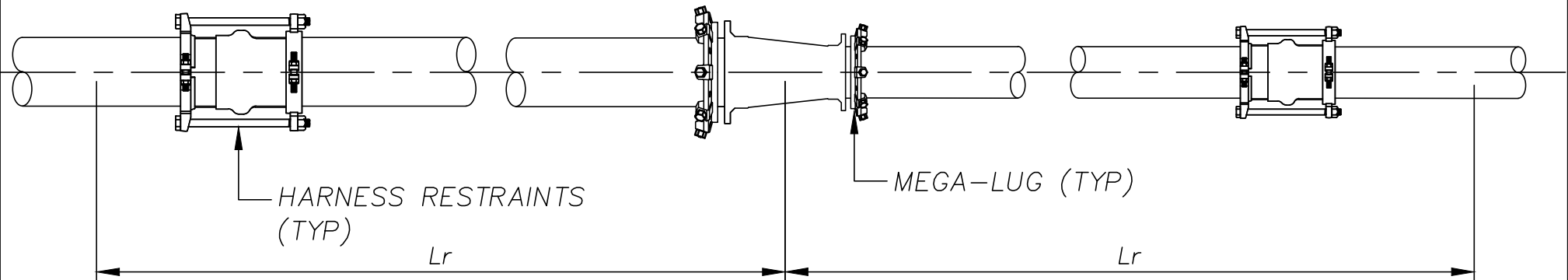
JWSC 2-4

DESIGNED: BGJWSC    DRAWN: HPATEL  
DATE: 05/26/2022    SCALE: NTS

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| REDUCER SIZE | Lr   | REDUCER SIZE | Lr   |
|--------------|------|--------------|------|
| 16" X 12"    | 60'  | 24" X 18"    | 85'  |
| 16" X 10"    | 80'  | 24" X 16"    | 105' |
| 16" X 8"     | 100' | 24" X 12"    | 145' |
| 16" X 6"     | 115' | 24" X 10"    | 160' |
| 12" X 10"    | 35'  | 24" X 8"     | 170' |
| 12" X 8"     | 60'  | 24" X 6"     | 180' |
| 12" X 6"     | 80'  | 18" X 16"    | 35'  |
| 10" X 8"     | 30'  | 18" X 12"    | 85'  |
| 10" X 6"     | 55'  | 18" X 10"    | 105' |
| 8" X 6"      | 35'  | 18" X 8"     | 120' |
| 8" X 4"      | 55'  | 18" X 6"     | 135' |
| 6" X 4"      | 30'  |              |      |

NOTE: LENGTHS SHOWN TO BE  
RESTRAINED ON LARGER SIDE  
OF REDUCER



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## PVC JOINT RESTRAINT REDUCER

**JWSC 2-5**

DESIGNED: BGJWSC

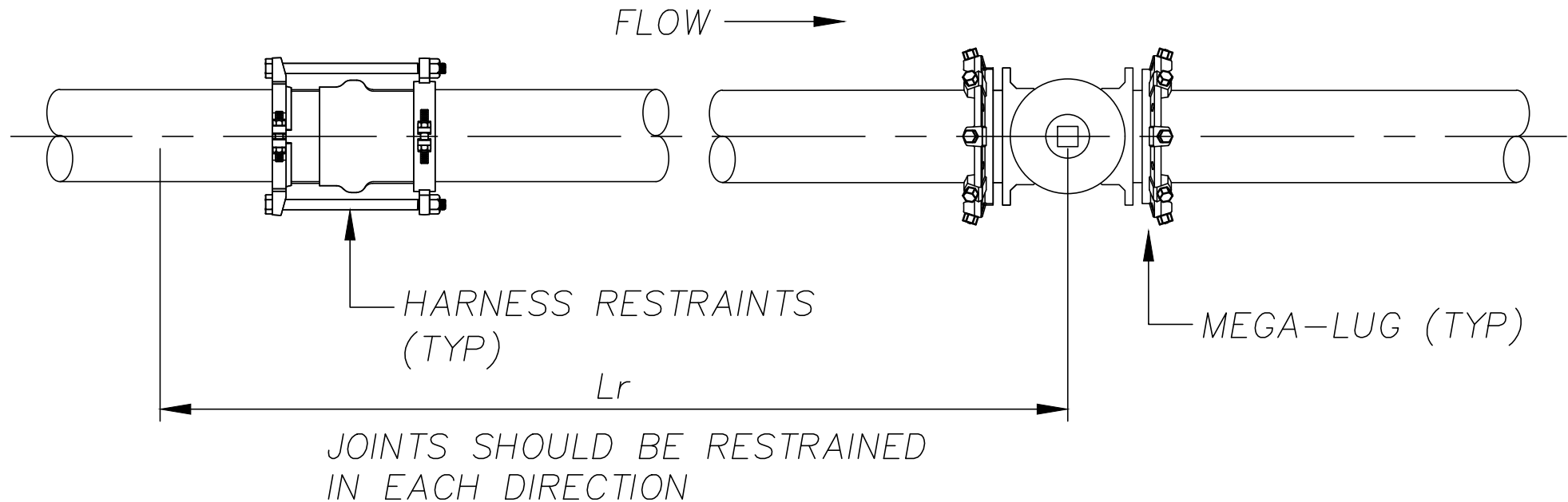
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SCALE: NTS

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| LINE SIZE | Lr   |
|-----------|------|
| 18"       | 170' |
| 16"       | 155' |
| 12"       | 120' |
| 10"       | 100' |
| 8"        | 85'  |
| 6"        | 65'  |
| 4"        | 50'  |



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**PVC JOINT RESTRAINT  
IN-LINE VALVE**

**JWSC 2-6**

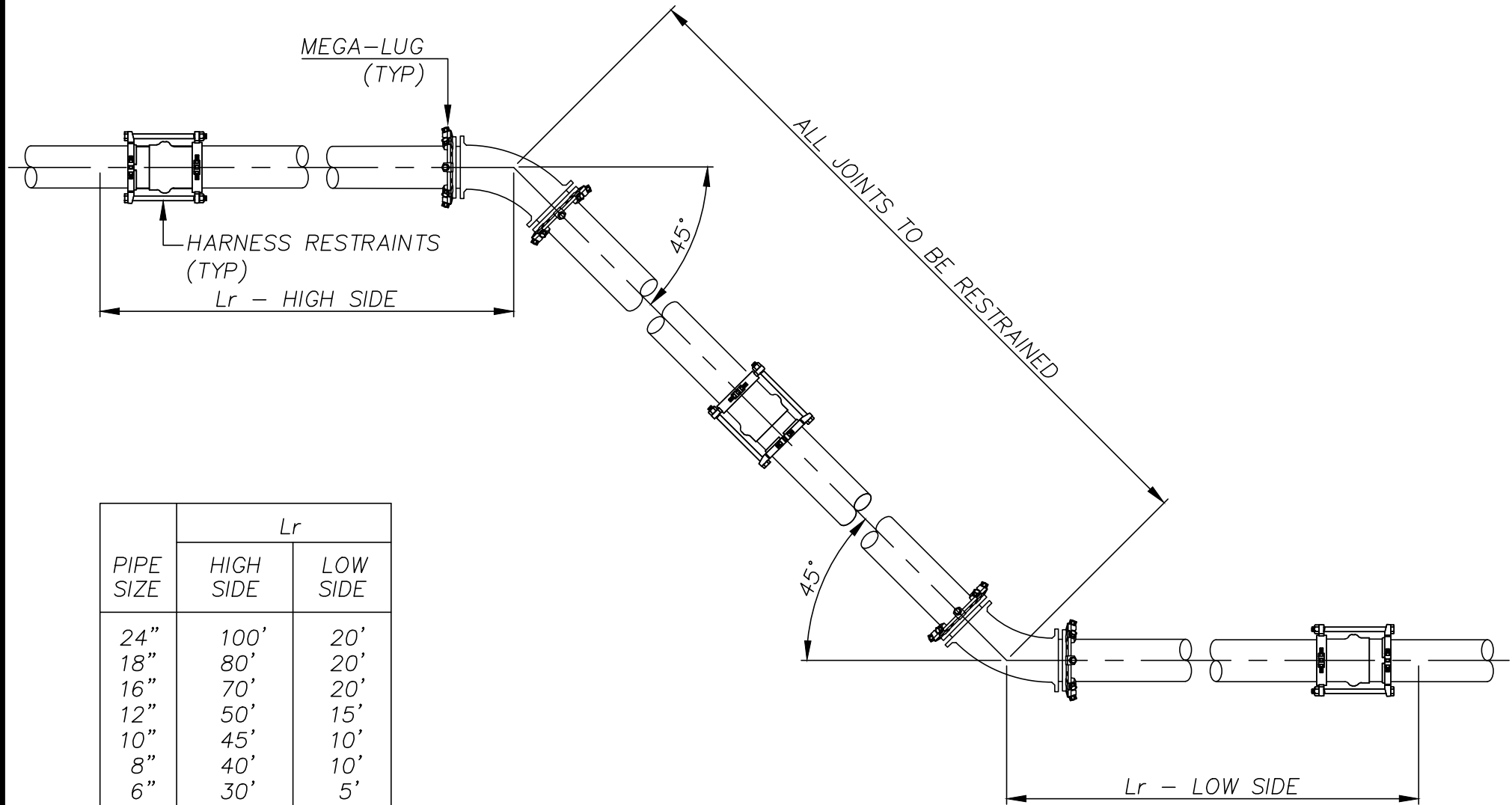
DESIGNED: BGJWSC

DRAWN: HPATEL

DATE: 05/26/2022

SCALE: NTS

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## PVC JOINT RESTRAINT VERTICAL OFFSET

JWSC 2-7

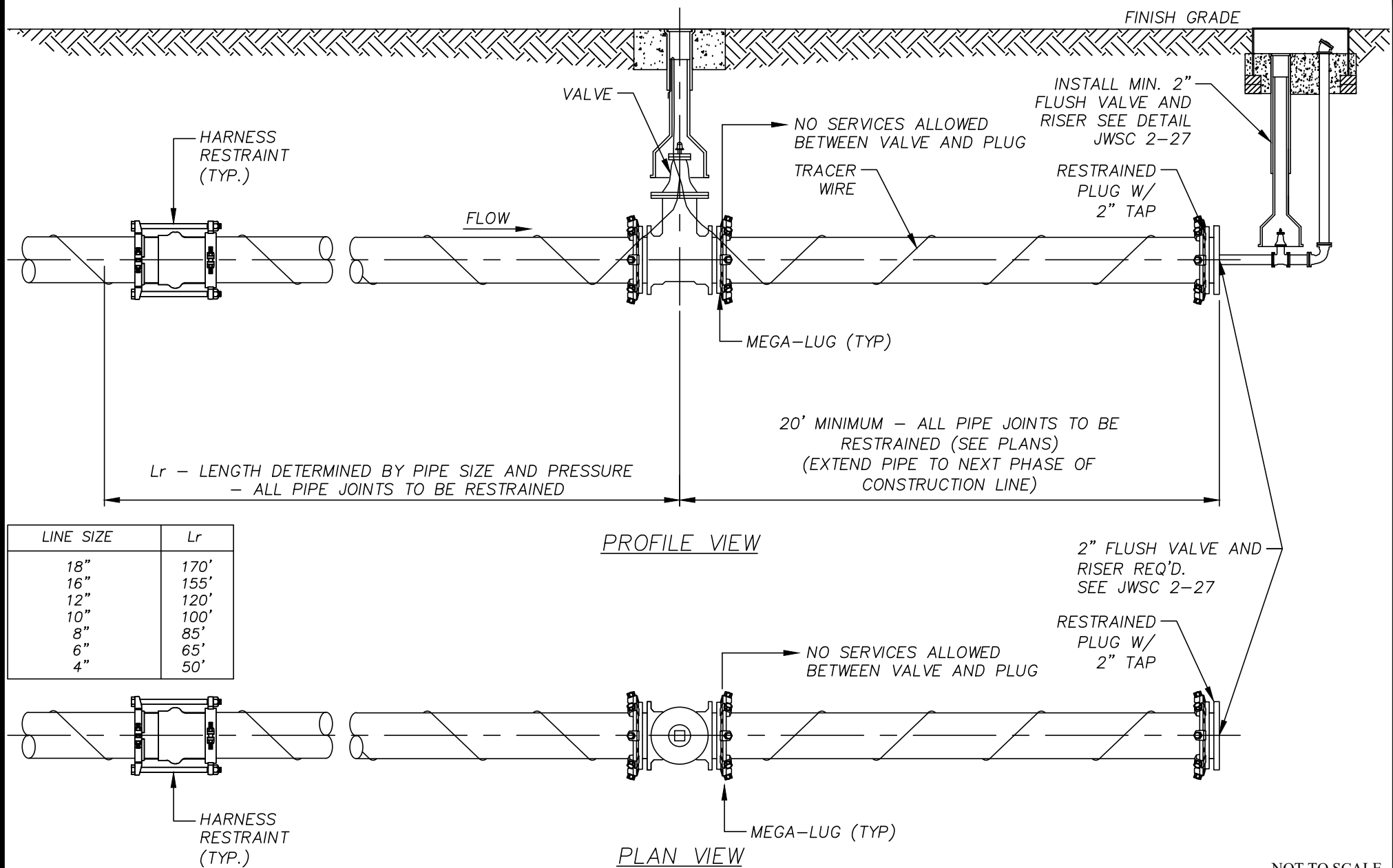
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DATE: 05/26/2022

SCALE: NTS

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## **PVC JOINT RESTRAINT TEMPORARY DEAD END**

**JWSC 2-8**

DESIGNED: BGJWSC

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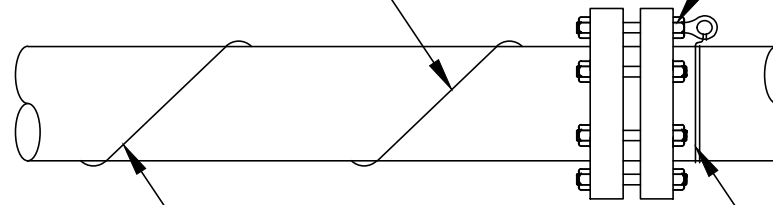
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MINIMUM OF 1 TURN AROUND  
EACH LENGTH OF PIPE  
(SEE NOTE 4)

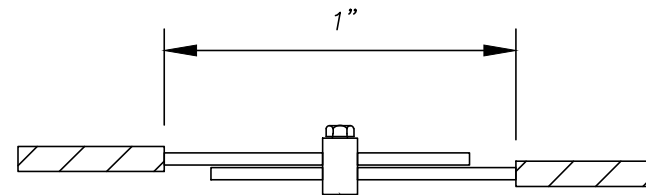


EYE BOLT FOR WIRE TRACING  
CONNECTION. 2 TURNS  
THROUGH EYE BOLT REQ'D.  
(2 NUTS REQUIRED)

DUCTILE IRON  
FITTING, VALVE OR  
PIPE BELL

#10 SOLID  
COPPER WIRE

2 TURNS AROUND  
FITTING OR VALVE



COPPER WIRE  
CLAMP

**NOTE:**

1. USE #10 AWG SOLID PLASTIC COATED COPPER WIRE.
2. STRIP 2" OF COATING & WRAP WIRE 2 TURNS UNDER "T" HEAD BOLT ON TOP OF DUCTILE IRON FITTING (VALVE). NEXT WRAP WIRE 2 TURNS AROUND BELL OF FITTING (VALVE) AND WIND WITH A CONTINUOUS LENGTH OF AT LEAST 4 WRAPS PER LENGTH OF PVC PIPE TO THE NEXT DUCTILE IRON FITTING. TERMINATE AT FITTING IN A SIMILAR MANNER AS NOTED ABOVE.
3. ALL SPLICES MUST BE MADE BY USING COPPER WIRE SPLICE, "U" BOLT ASSEMBLIES AND THEN WRAPPING WITH ELECTRICAL TAPE.
4. IN LIEU OF "WRAPPING" TRACER WIRE AROUND PVC PIPE, WIRE MAY BE STRUNG ALONG THE TOP OF PIPE, PROVIDED IT IS TAPED TO THE PIPE EVERY 5'-0" TO INSURE ACCURATE POSITION MAINTAINED DURING BACKFILL.

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**TRACER WIRE  
INSTALLATION**

**JWSC 2-9**

DESIGNED: BGJWSC

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SCALE: NTS

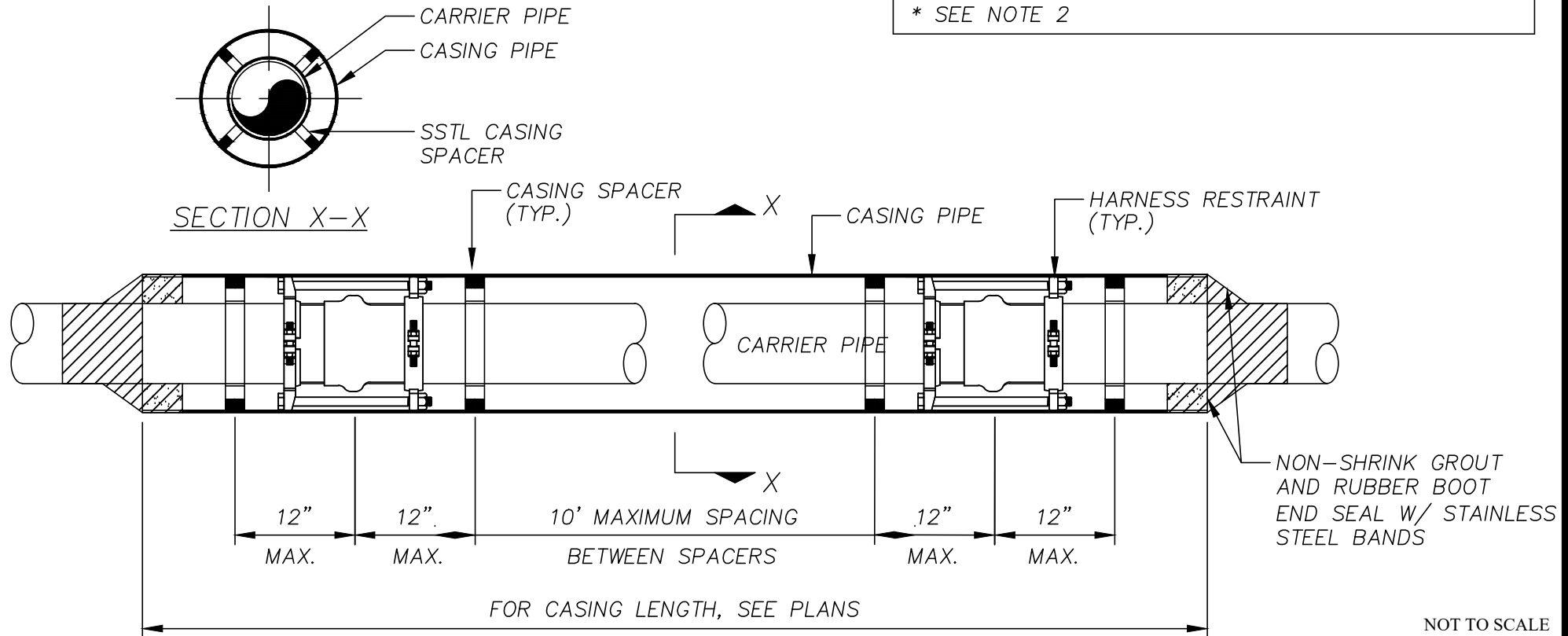
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**GENERAL NOTES:**

1. DETAIL SHOWN IS FOR CITY AND COUNTY ROADWAY CROSSINGS.
2. INSTALLATIONS UNDER STATE ROADS AND RAILROADS MAY HAVE REQUIREMENTS DIFFERENT FROM THOSE SHOWN. SUCH INSTALLATIONS SHALL MEET ALL APPLICABLE REQUIREMENTS OF THE GEORGIA DEPARTMENT OF TRANSPORTATION OR THE PARTICULAR RAILROAD INVOLVED.
3. SEE BGJWSC STANDARD CONSTRUCTION SPECIFICATIONS FOR ADDITIONAL INFORMATION.
4. CASING SIZE SHOWN ARE FOR DUCTILE IRON PIPE. FOR PVC PIPE AND HARNESS RESTRAINTS, ADJUST CASING PIPE DIAMETER ACCORDINGLY.
5. STEEL CASING SHALL EXTEND 3' BEYOND TOE OF SLOPE OR CENTER OF DITCH, 3' BEYOND BACK OF CURB, 10' BEYOND TOP OF CREEK BANK OR 10' BEYOND EDGE OF PAV'T. WHERE APPLICABLE.
6. ALL JOINTS WITHIN CASING TO BE RESTRAINED.

| CARRIER PIPE<br>DIAMETER<br>(INCHES) | CASING PIPE<br>DIAMETER<br>(INCHES) | WALL<br>THICKNESS*<br>(INCHES) |
|--------------------------------------|-------------------------------------|--------------------------------|
| 6                                    | 12                                  | 0.375                          |
| 8                                    | 16                                  | 0.375                          |
| 10                                   | 16                                  | 0.375                          |
| 12                                   | 20                                  | 0.375                          |
| 14                                   | 22                                  | 0.375                          |
| 16                                   | 24                                  | 0.375                          |
| 18                                   | 30                                  | 0.375                          |
| 20                                   | 30                                  | 0.375                          |
| 24                                   | 36                                  | 0.375                          |
| 30                                   | 42                                  | 0.375                          |

\* SEE NOTE 2



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**STEEL CASING AND  
CARRIER PIPE  
INSTALLATION**

**JWSC 2-10**

DESIGNED: BGJWSC

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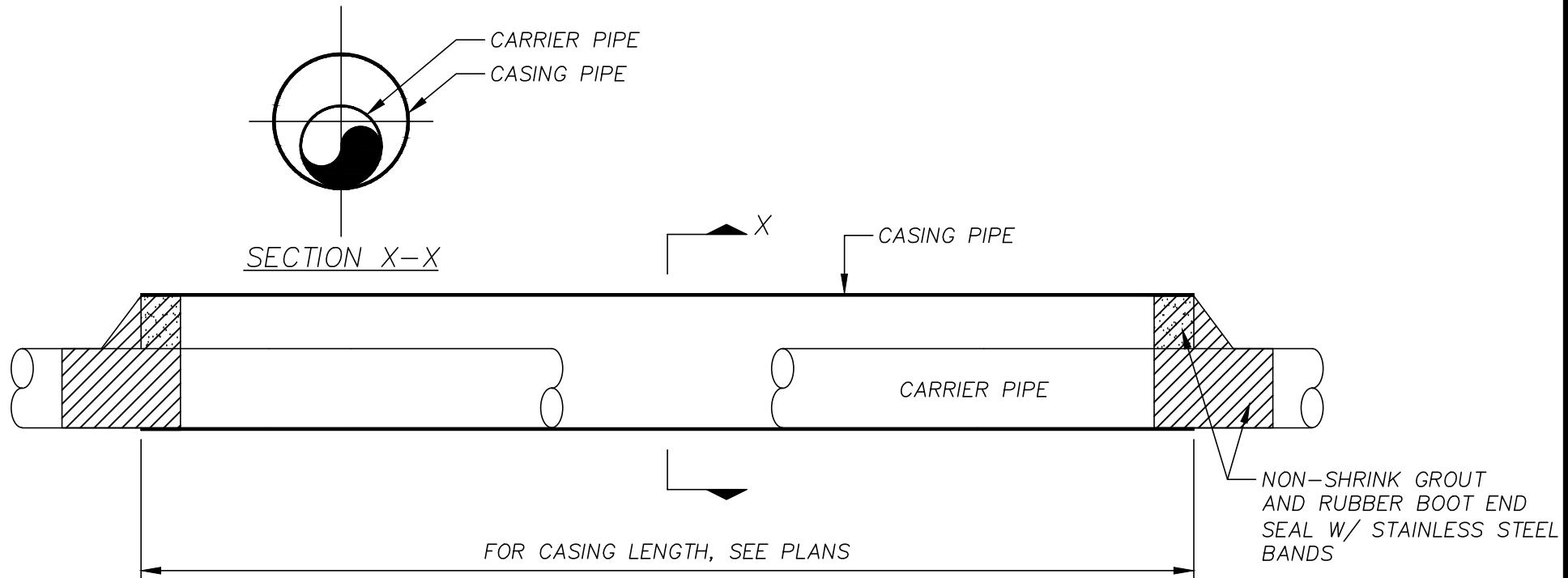
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GENERAL NOTES:

1. DETAIL SHOWN IS FOR STATE ROADWAY CROSSINGS.
2. INSTALLATIONS UNDER CITY OF BRUNSWICK AND GLYNN COUNTY ROADS MAY HAVE REQUIREMENTS DIFFERENT FROM THOSE SHOWN. INSTALLATIONS SHALL MEET ALL APPLICABLE REQUIREMENTS OF THE GEORGIA DEPARTMENT OF TRANSPORTATION.
3. SEE BGJWSC STANDARD CONSTRUCTION SPECIFICATIONS FOR ADDITIONAL INFORMATION.
4. CASING SIZES SHOWN ARE FOR C-900 FPVC. CARRIER PIPE SIZES ARE FOR C-900 FPVC DR18 UNLESS OTHERWISE NOTED. CASINGS AND CARRIER PIPE SHALL BE BLUE OR GREEN IN COLOR.

| CARRIER PIPE<br>DIAMETER<br>(INCHES) | CARRIER PIPE<br>OD DIAMETER<br>(INCHES) | CASING PIPE<br>DIAMETER<br>(INCHES) | CASING PIPE<br>ID DIAMETER<br>(INCHES) | WALL<br>THICKNESS*<br>(INCHES) |
|--------------------------------------|---|-------------------------------------|--|--------------------------------|
| 6                                    | 6.90                                    | 10                                  | 9.79                                   | 0.620                          |
| 8                                    | 9.05                                    | 12                                  | 11.65                                  | 0.720                          |
| 10                                   | 11.10                                   | 14                                  | 13.50                                  | 0.850                          |
| 12                                   | 13.20                                   | 16                                  | 15.35                                  | 0.970                          |
| 14                                   | 15.30                                   | 18                                  | 17.20                                  | 1.080                          |
| 16                                   | 17.40                                   | 24                                  | 22.76                                  | 1.430                          |
| 18                                   | 19.50                                   | 24                                  | 22.76                                  | 1.430                          |
| 20                                   | 21.60                                   | 30*                                 | 28.77                                  | 1.520                          |
| 24                                   | 25.80                                   | 30*                                 | 28.77                                  | 1.520                          |
| 30*                                  | 32.00                                   | 36*                                 | 34.43                                  | 1.820                          |

\* DR 21



NOT TO SCALE



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## FPVC CASING AND C905 CARRIER PIPE INSTALLATION

**JWSC 2-10A**

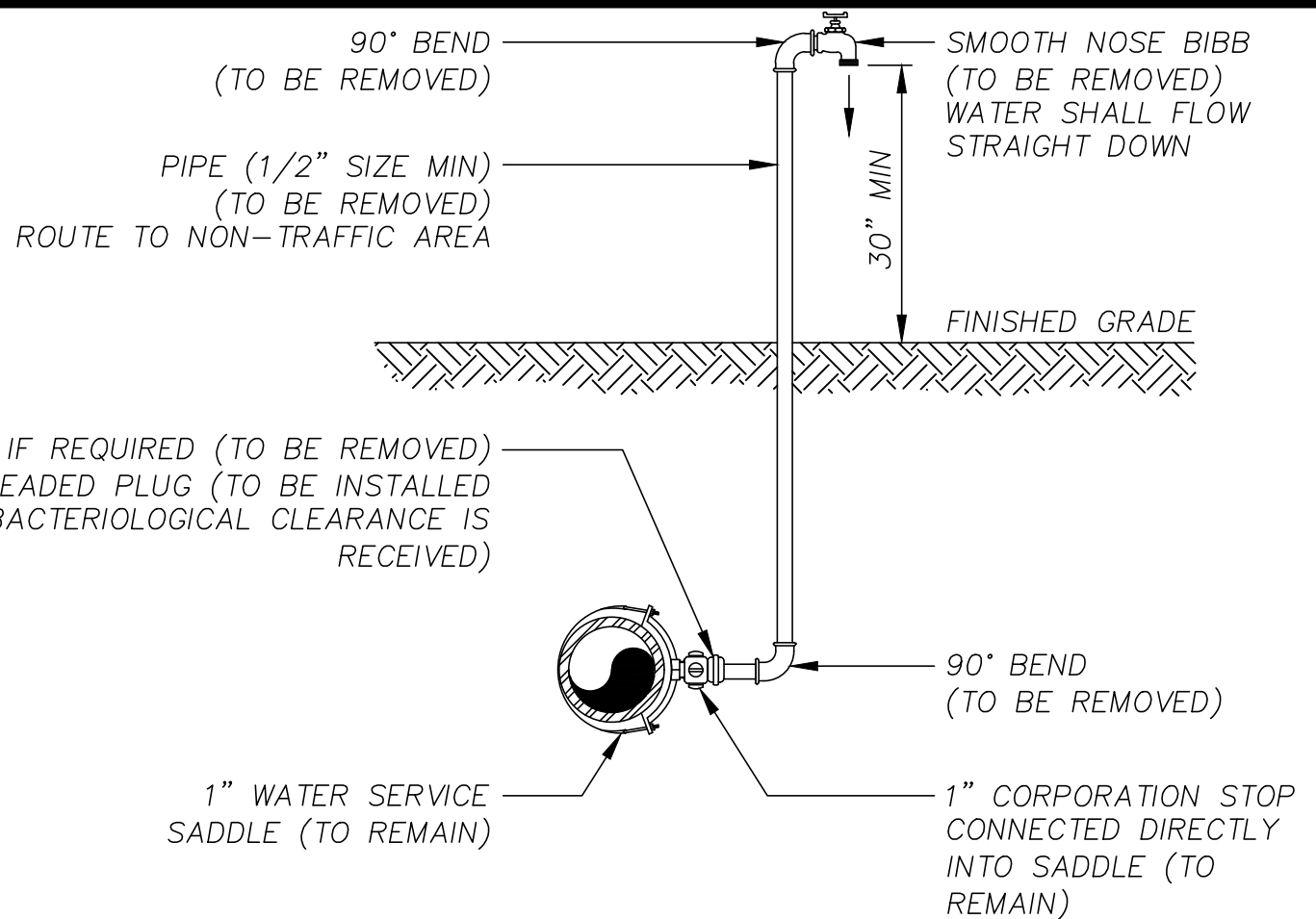
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DATE: 05/26/2022

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**NOTE:**

1. LOCATION OF SAMPLE POINT BIBB SHALL BE ROUTED TO NON-TRAFFIC AREAS, IF REQUIRED.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL OF ALL TEMPORARY PIPING & FITTINGS, AS NOTED, AFTER BACTERIOLOGICAL CLEARANCE IS RECEIVED.
3. PIPE AND FITTINGS SHALL BE PVC (SCH 40).
4. THE CONTRACTOR SHALL ATTACH A "DO NOT DRINK" SIGN TO THE SAMPLE TAP. THE SIGN SHALL REMAIN ATTACHED TO THE SAMPLE TAP UNTIL ALL TESTS ARE COMPLIANT.

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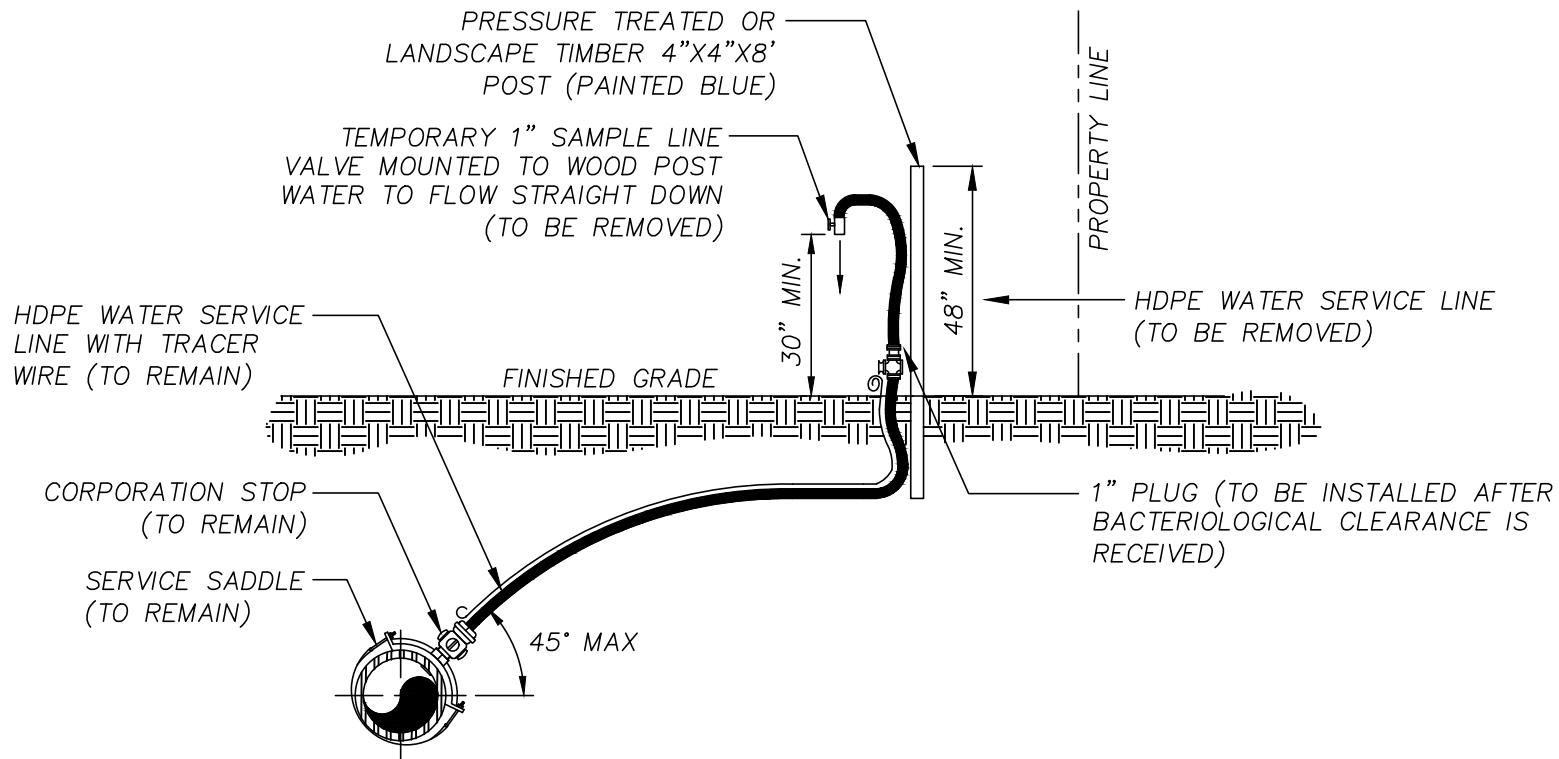
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**TEMPORARY SAMPLE  
TAP MAIN EXTENSION  
ONLY**

**JWSC 2-11**

DESIGNED: BGJWSC DRAWN: HPATEL  
DATE: 05/26/2022 SCALE: NTS

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**NOTE:**

1. WATER SERVICE CONNECTION MAY BE USED FOR TEMPORARY SAMPLE TAP IF LOCATED NEAR REQUIRED SAMPLING POINT.
2. WATER SERVICE TO BE INSTALLED PER "WATER SERVICE DETAIL"
3. LOCATION OF SAMPLE POINT BIBB SHALL BE ROUTED TO NON-TRAFFIC AREAS IF REQUIRED.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL OF ALL TEMPORARY PIPING & FITTINGS, AS NOTED, AFTER BACTERIOLOGICAL CLEARANCE IS RECEIVED.

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## TYPICAL WATER SERVICE/TEMPORARY SAMPLE TAP

JWSC 2-12

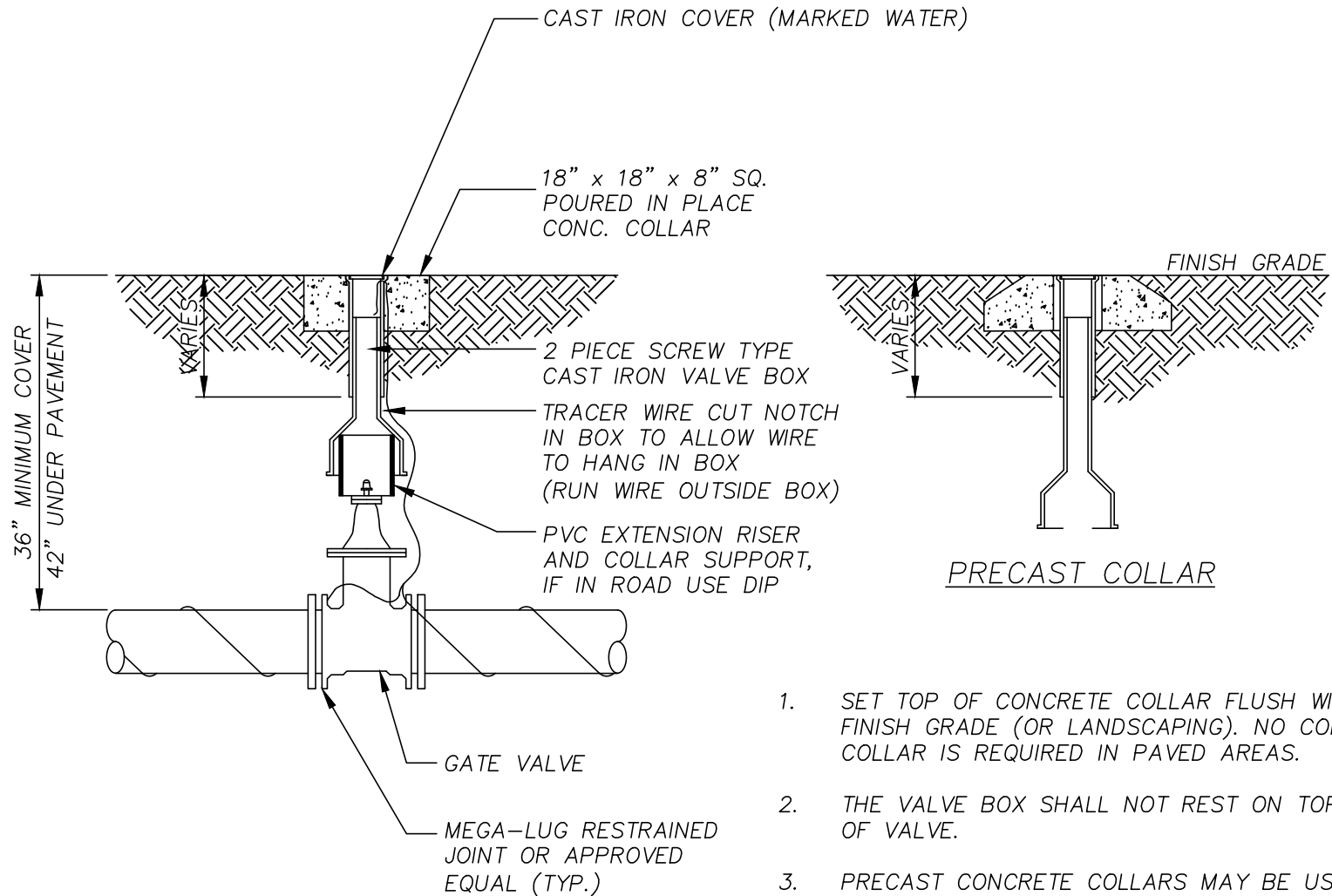
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1. SET TOP OF CONCRETE COLLAR FLUSH WITH FINISH GRADE (OR LANDSCAPING). NO CONCRETE COLLAR IS REQUIRED IN PAVED AREAS.
2. THE VALVE BOX SHALL NOT REST ON TOP OF VALVE.
3. PRECAST CONCRETE COLLARS MAY BE USED UPON APPROVAL OF THE BGJWSC REPRESENTATIVE. SEE ALTERNATE DETAIL ABOVE.

NOT TO SCALE



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## WATER VALVE DETAIL

JWSC 2-13

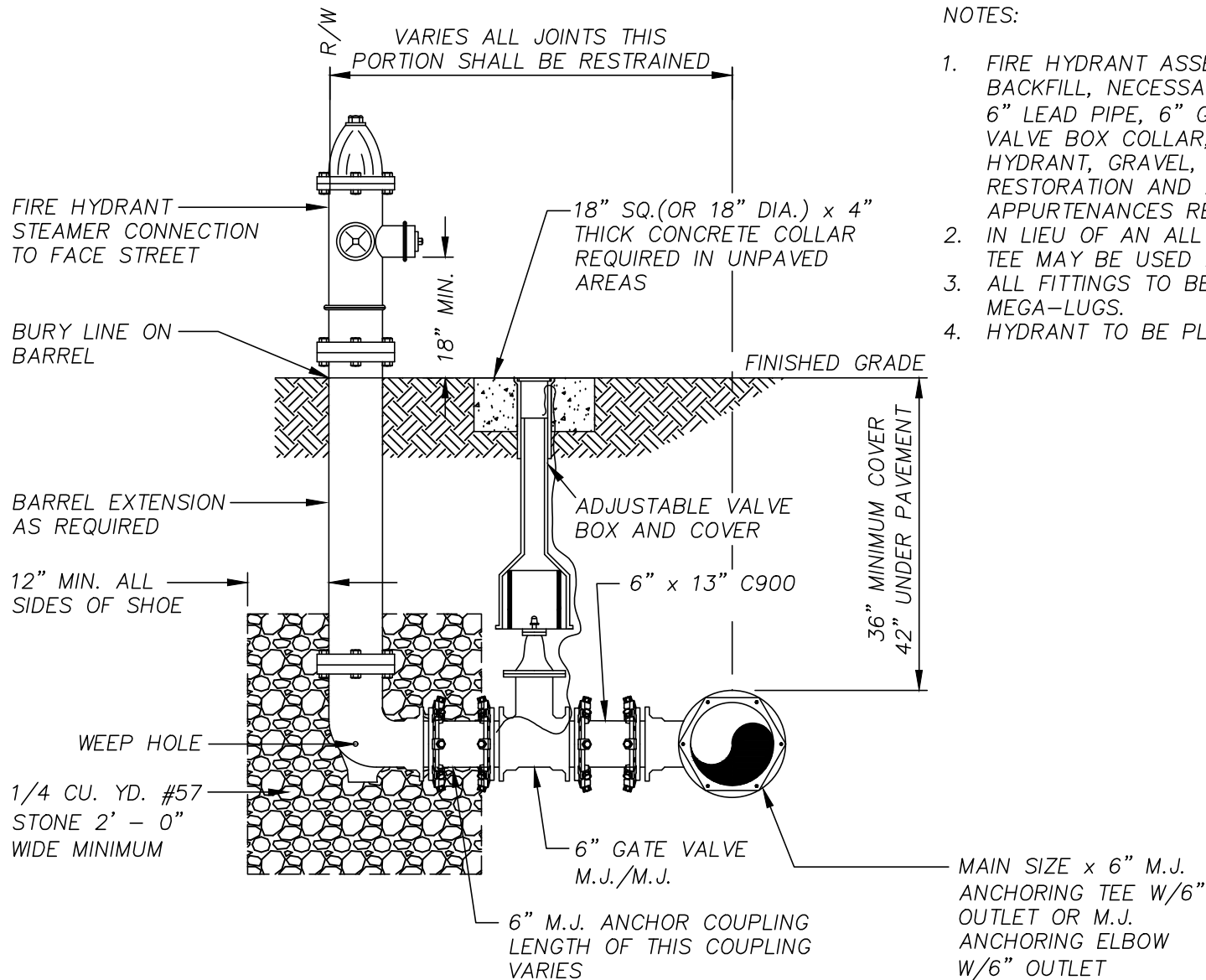
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# NOTES:

1. FIRE HYDRANT ASSEMBLIES INCLUDE EXCAVATION, BACKFILL, NECESSARY SHORING AND SHEETING, 6" LEAD PIPE, 6" GATE VALVE AND VALVE BOX, VALVE BOX COLLAR, SUPPORTING BRICKS, FIRE HYDRANT, GRAVEL, COMPLETE SURFACE RESTORATION AND ALL OTHER WORK AND APPURTENANCES REQUIRED.
2. IN LIEU OF AN ALL MJ TEE, A HYDRANT ANCHOR TEE MAY BE USED AND SPOOL PIECE ELIMINATED.
3. ALL FITTINGS TO BE RESTRAINED WITH MEGA-LUGS.
4. HYDRANT TO BE PLUMB AND LEVEL.

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## FIRE HYDRANT DETAIL

JWSC 2-14

DESIGNED: BGJWSC

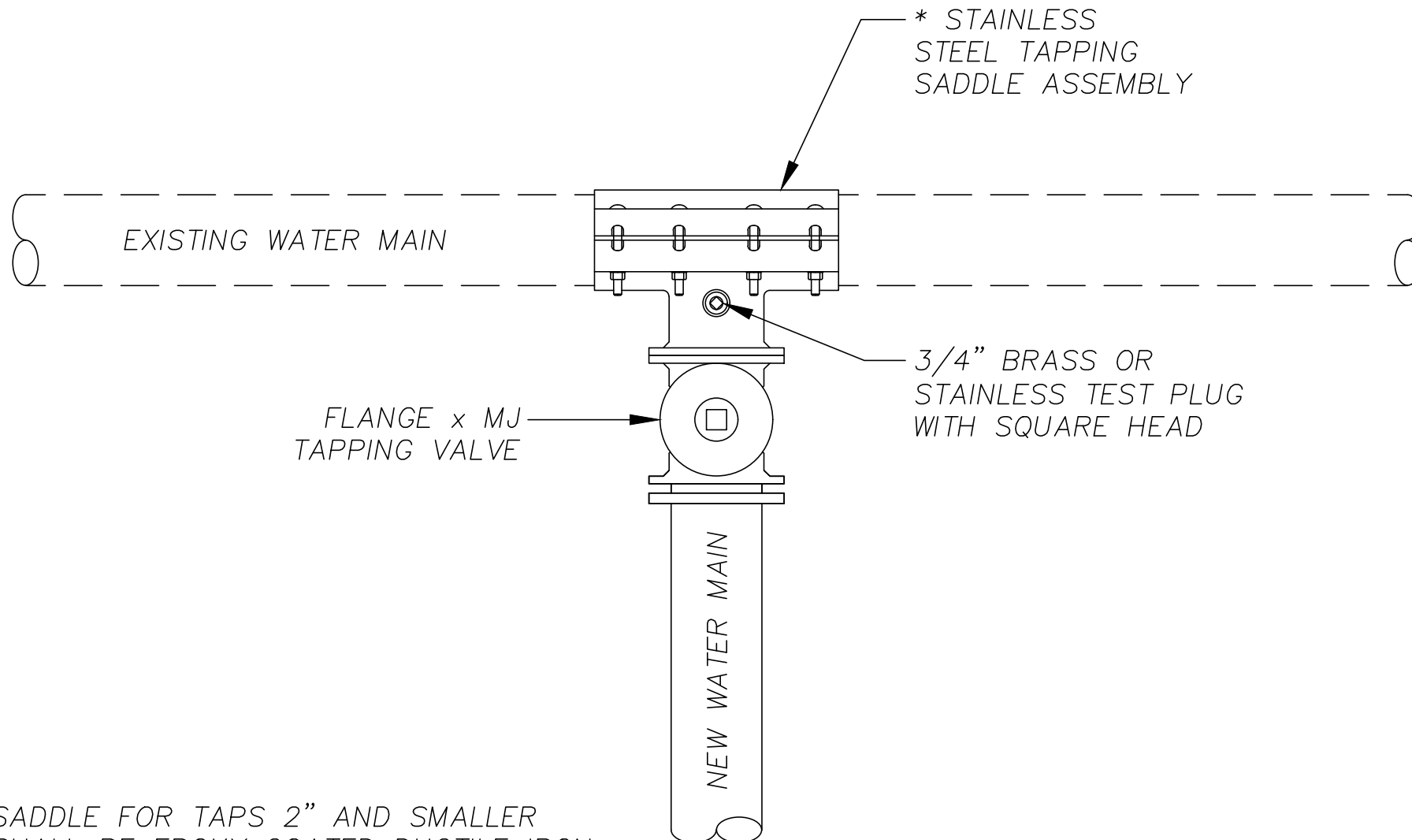
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\* SADDLE FOR TAPS 2" AND SMALLER SHALL BE EPOXY COATED DUCTILE IRON BODY, DOUBLE STRAPPED TYPE WITH NPT SERVICE OUTLET. RUBBER GASKET RING, TWO ALLOY STEEL STRAPS, AWWA C800 FEMALE IRON PIPE TAP.

NOT TO SCALE



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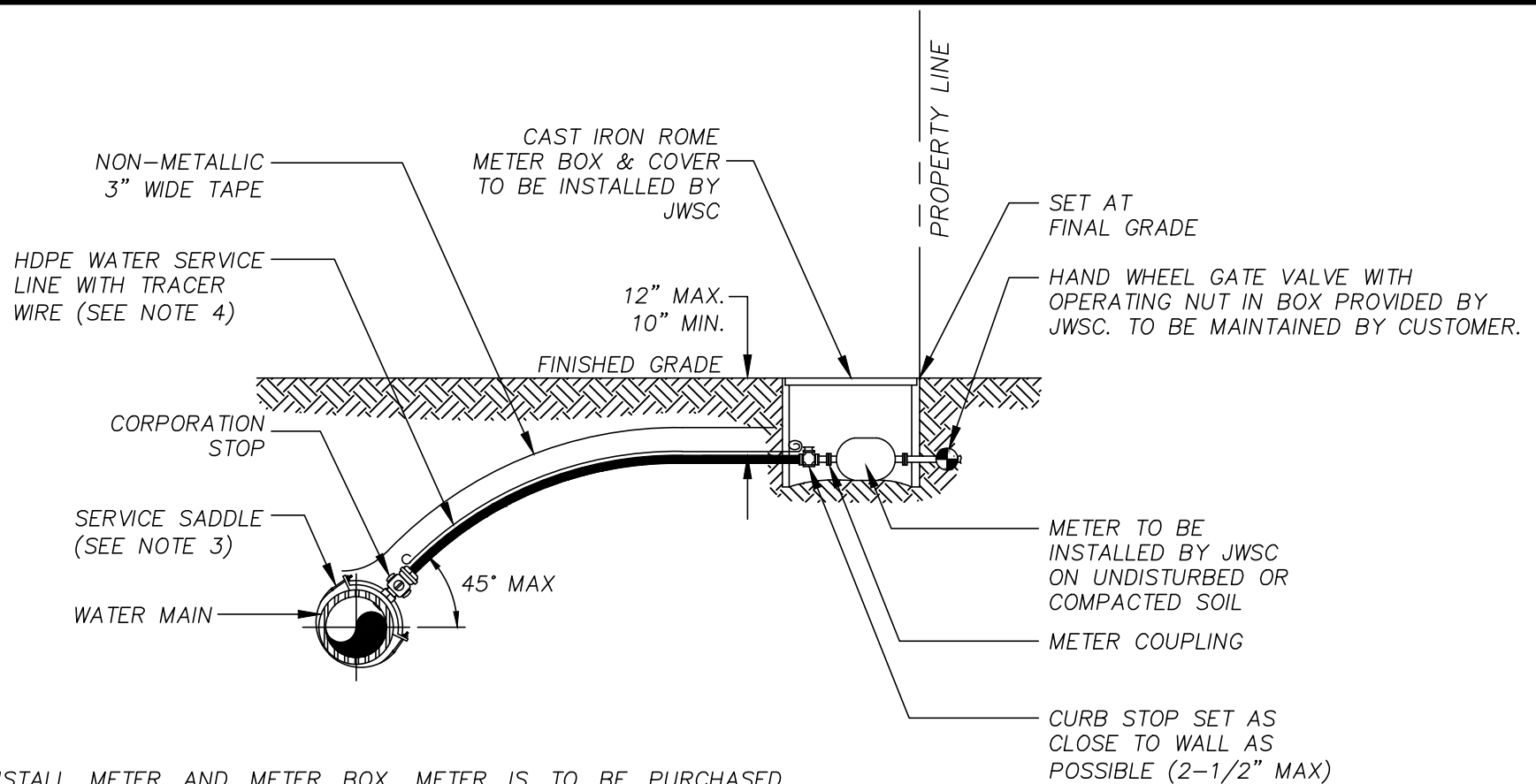
## **CONNECTION TO EXISTING WATER MAIN 4" AND LARGER**

**JWSC 2-15**

|                  |               |
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| DESIGNED: BGJWSC | DRAWN: HPATEL |
| DATE: 05/26/2022 | SCALE: NTS    |

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**NOTES:**

1. JWSC TO INSTALL METER AND METER BOX. METER IS TO BE PURCHASED THROUGH JWSC.
2. ALL FITTINGS IN LATERAL SHALL BE COMPRESSION TYPE.
3. A MINIMUM OF TWO FULL THREADS ARE REQUIRED FOR TAPPING SLEEVE TO GO INTO THE PIPE WALL.
4. INSULATED SINGLE STRAND #10 AWG COPPER WIRE SHALL BE STRAPPED TO THE PIPE AND ATTACHED TO THE CORPORATION, CURB STOPS AND CONNECT TRACER WIRE TO MAIN.
5. INSTALL PVC PLUG IN ALL CURB STOPS IF WATER SERVICE IS "NOT IN USE" (NO METER IS INSTALLED).
6. WATER SERVICES SHALL INCLUDE A "W" STAMPED INTO THE CURB.
7. HDPE WATER SERVICE LINE SHALL BE PERPENDICULAR TO THE MAIN UNLESS APPROVED OTHERWISE BY BGJWSC.
8. METER SIZE WILL BE BASED ON END USERS REQUIREMENTS.
9. POTABLE TAP TO BE SEPERATE FROM IRRIGATION AND FIRE SPRINKLER LINES.

NOT TO SCALE



**BRUNSWICK-GLYNN JOINT WATER  
& SEWER COMMISSION**

1703 Gloucester Street  
Brunswick, Georgia 31520

Website: [www.bgjwsc.org](http://www.bgjwsc.org)

Phone: (912) 261-7110  
Fax: (912) 261-7178

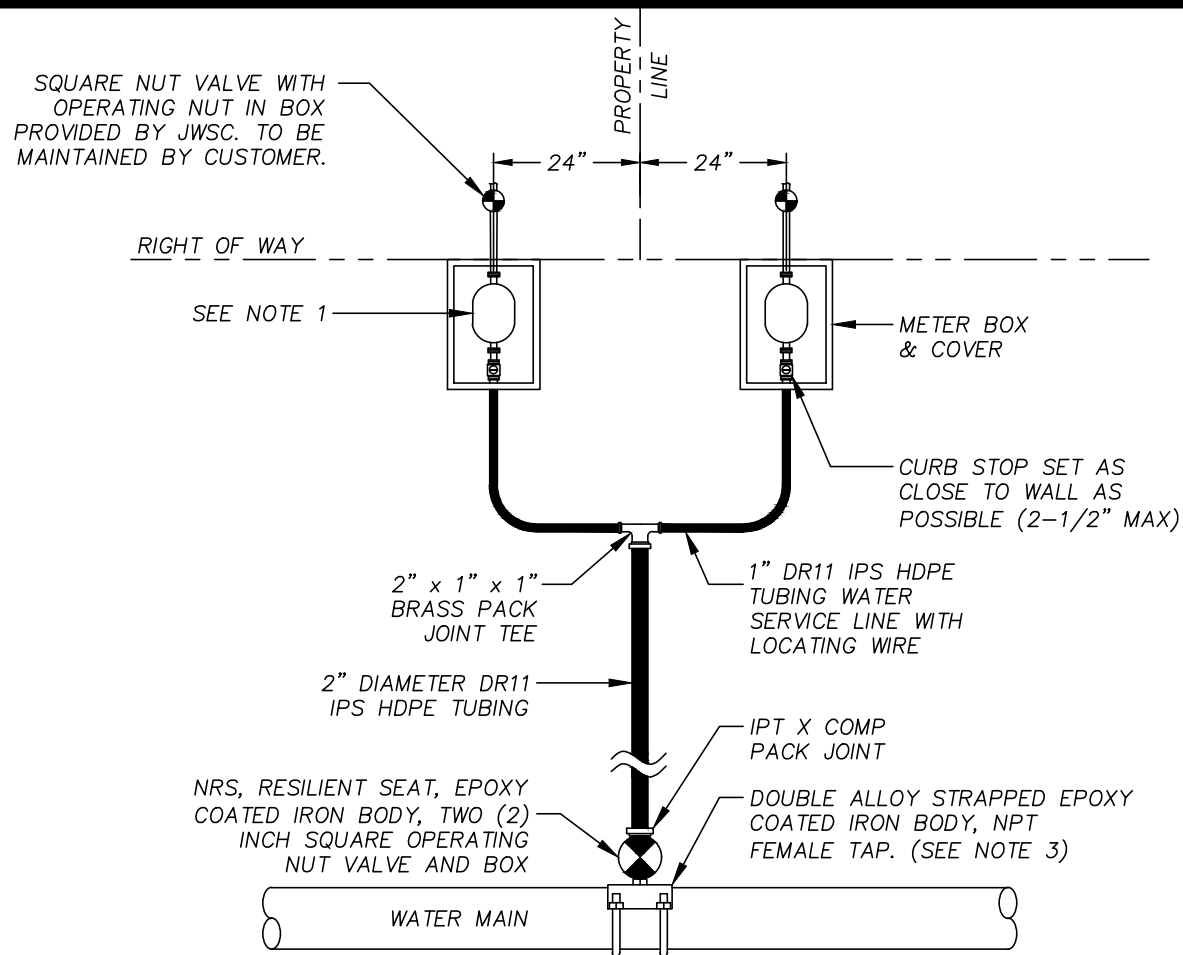
**SINGLE WATER OR  
IRRIGATION SERVICE  
(2" AND SMALLER)**

**JWSC 2-16**

DESIGNED: BGJWSC DRAWN: HPATEL

DATE: 05/26/2022 SCALE: NTS

| BY | REVISION | DATE |
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**NOTE:**

1. METER BOX AND METER TO BE FURNISHED AND INSTALLED BY JWSC.
2. ALL FITTINGS IN LATERAL SHALL BE COMPRESSION TYPE.
3. A MINIMUM OF TWO FULL THREADS ARE REQUIRED FOR THE BRASS NIPPLE TO GO INTO THE TAPPING SADDLE.
4. INSULATED SINGLE STAND #10 AWG COPPER WIRE SHALL BE STRAPPED TO THE PIPE AND ATTACHED TO THE CORPORATION AND CURB STOPS.
5. INSTALL PVC PLUG IN ALL CURB STOPS IF WATER SERVICE IS "NOT IN USE" (NO METER IS INSTALLED).
6. WATER SERVICES SHALL INCLUDE A "W" STAMPED INTO THE CURB.
7. WATER SERVICE LINE SHALL BE PERPENDICULAR TO THE MAIN UNLESS APPROVED OTHERWISE BY BGJWSC.

NOT TO SCALE



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Website: [www.bgjwsc.org](http://www.bgjwsc.org)

## DOUBLE WATER SERVICE DETAIL

JWSC 2-17

DESIGNED: BGJWSC

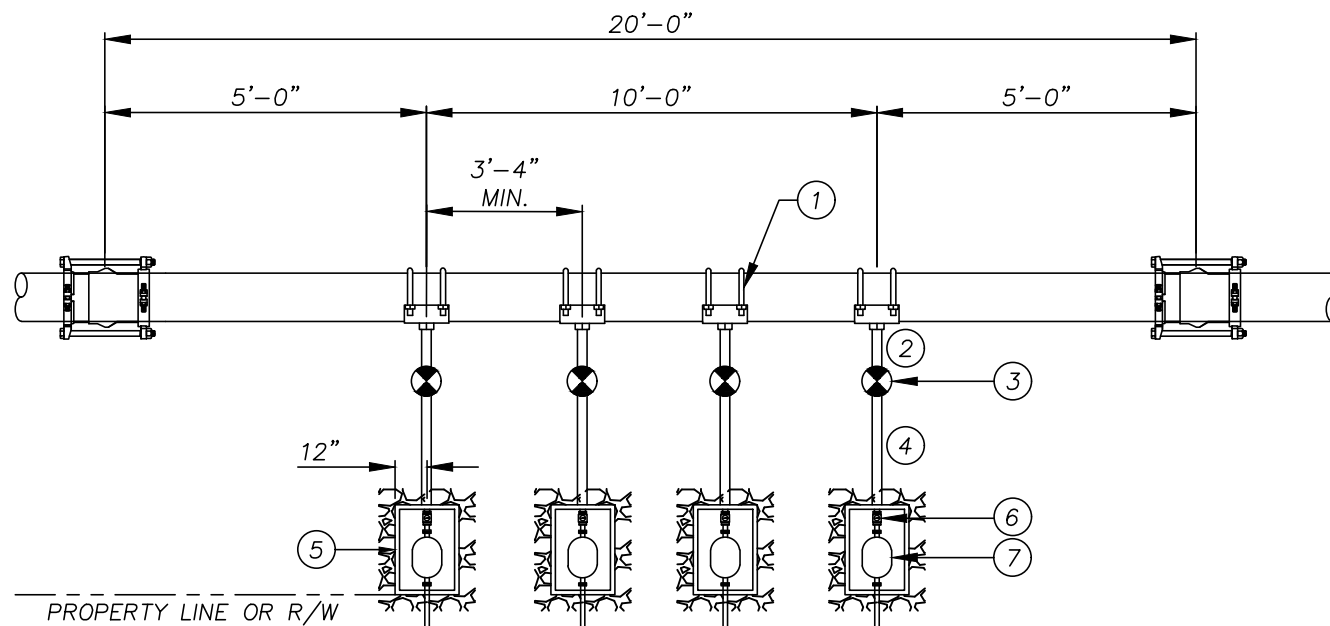
DRAWN: HPATEL

DATE: 05/26/2022

SCALE: NTS

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### BILL OF MATERIALS

|   |  |
|---|--|
| 1 | MAIN x 2" DOUBLE STRAPPED BRASS TAPPING SADDLE |
| 2 | 2" BRASS NIPPLE                                |
| 3 | 2" NON RISING STEM SQ. NUT VALVE AND VALVE BOX |
| 4 | 2" DR9 HDPE TUBING                             |
| 5 | 24" x 36" JUMBO METER BOX BY JWSC              |
| 6 | 2" COMPRESSION x FIP BRASS CURB STOP           |
| 7 | 2" METER BY JWSC                               |

### NOTES:

1. A MINIMUM OF TWO FULL THREADS ARE REQUIRED FOR TAPPING SLEEVE INTO PIPE WALL.
2. CURB STOP TO BE INSTALLED BY CONTRACTOR.
3. ALL FITTINGS IN LATERAL TO BE COMPRESSION TYPE.
4. INSULATED SINGLE STRAND COPPER WIRE SHALL BE STRAPPED TO PIPE AND ATTACHED TO THE CORPORATION AND CURB STOPS FOR WIRE TRACING.
5. INSTALL PVC PLUG IN ALL CURB STOPS IF WATER SERVICE IS NOT IN USE (NO METER INSTALLED)

NOT TO SCALE



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## MULTIPLE WATER SERVICE MANIFOLD

JWSC 2-18A

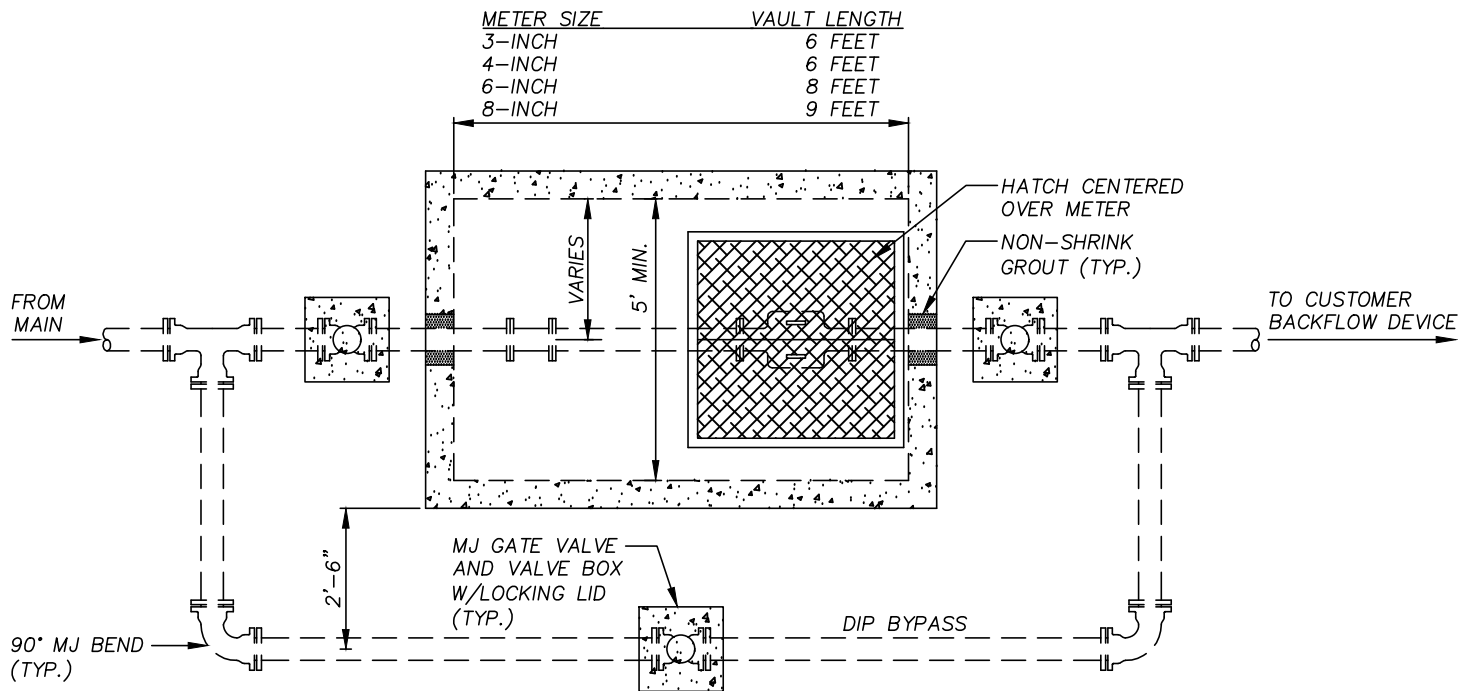
DESIGNED: BGJWSC

DRAWN: HPATEL

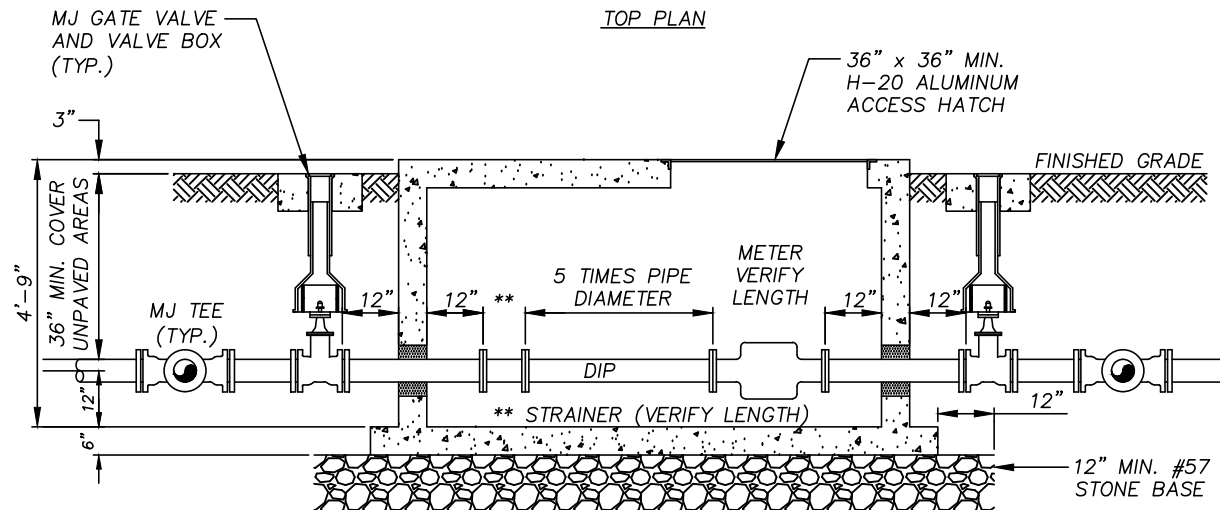
DATE: 05/26/2022

SCALE: NTS

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TOP PLAN



SECTION

GENERAL NOTES:

1. WATER METER TO BE PURCHASED FROM THE BRUNSWICK-GLYNN COUNTY JOINT WATER AND SEWER COMMISSION (JWSC). THE JWSC WILL COORDINATE WITH THE UTILITY CONTRACTOR AND WILL INSTALL THE METER. THE OWNER WILL PAY ALL COSTS FOR THE PURCHASE OF THE METER FROM JWSC AS WELL AS ALL ASSOCIATED CONNECTION AND ACCOUNT SET-UP FEES.
2. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL NECESSARY PIPE, VALVES, FITTINGS, ACCESSORIES, PRECAST VALVE VAULT AND ALL OTHER WORK AND APPURTENANCES REQUIRED.
3. PRECAST CONCRETE VALVE VAULT TO BE IN ACCORDANCE WITH ASTM C-478. A FACTORY INSTALLED 10MM BITUMASTIC COATING IS REQUIRED.
4. ALL INTERIOR FITTINGS TO BE DUCTILE IRON WITH FLANGED JOINTS. BURIED FITTINGS TO BE DUCTILE IRON WITH MECHANICAL JOINTS UTILIZING MEGA-LUG JOINT RESTRAINTS.
5. TRANSMITTER FOR THE WATER METER SHALL BE LOCATED AS DIRECTED BY THE JWSC INSPECTOR.
6. ALUMINUM ACCESS COVER SHALL BE MODEL W13636 AS MANUFACTURED BY HALLIDAY PRODUCTS INC. OR APPROVED EQUAL. BEFORE THE VAULT IS DELIVERED TO THE SITE, THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FROM THE VAULT MANUFACTURER FOR REVIEW.
7. THE Y STRAINER SHALL BE MANUFACTURED BY KECKLEY OR APPROVED EQUAL.

NOT TO SCALE



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**WATER METER  
INSTALLATION DETAIL  
(3-INCH AND LARGER)**

**JWSC 2-19**

DESIGNED: BGJWSC

DRAWN: HPATEL

DATE: 05/26/2022

SCALE: NTS

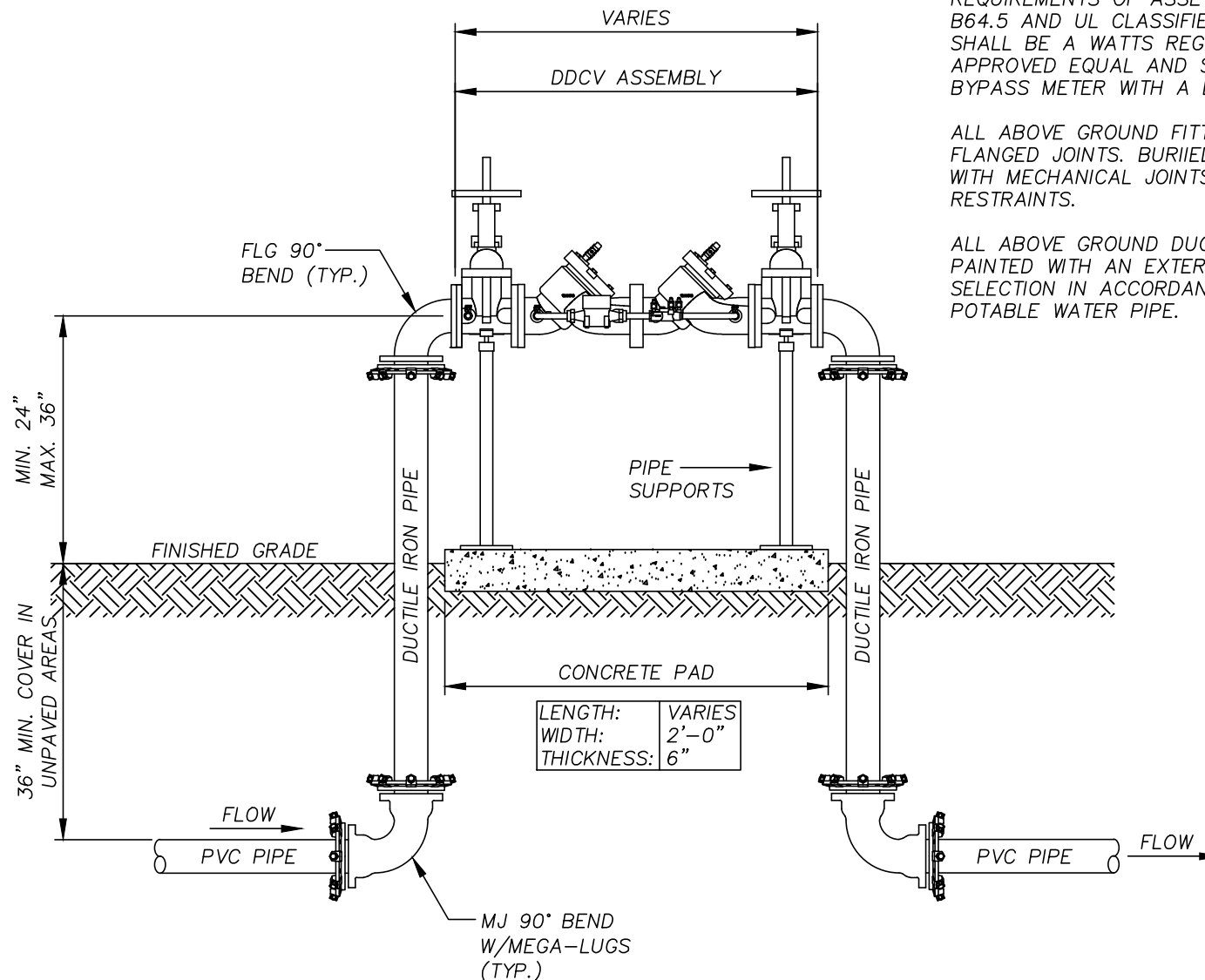
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GENERAL NOTES:

DOUBLE DETECTOR CHECK ASSEMBLY SHALL INCLUDE TIGHT CLOSING RESILIENT SEATED SHUTOFF VALVES AND TEST COCKS. THE ASSEMBLY SHALL MEET THE REQUIREMENTS OF ASSE NO. 1015; AWWA C510-92; CSA B64.5 AND UL CLASSIFIED FILE NO. EX3185. ASSEMBLY SHALL BE A WATTS REGULATOR COMPANY SERIES 709 OR APPROVED EQUAL AND SHALL BE EQUIPPED WITH A BYPASS METER WITH A BFP.

ALL ABOVE GROUND FITTINGS TO BE DUCTILE IRON WITH FLANGED JOINTS. BURIED FITTINGS TO BE DUCTILE IRON WITH MECHANICAL JOINTS UTILIZING MEGA-LUG JOINT RESTRAINTS.

ALL ABOVE GROUND DUCTILE IRON PIPING SHALL BE PAINTED WITH AN EXTERIOR GRADE ENAMEL PAINT. COLOR SELECTION IN ACCORDANCE WITH AWWA STANDARDS FOR POTABLE WATER PIPE.



NOT TO SCALE



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**DOUBLE DETECTOR  
CHECK VALVE (DDCV)  
ASSEMBLY (2" THRU 10")**

**JWSC 2-20**

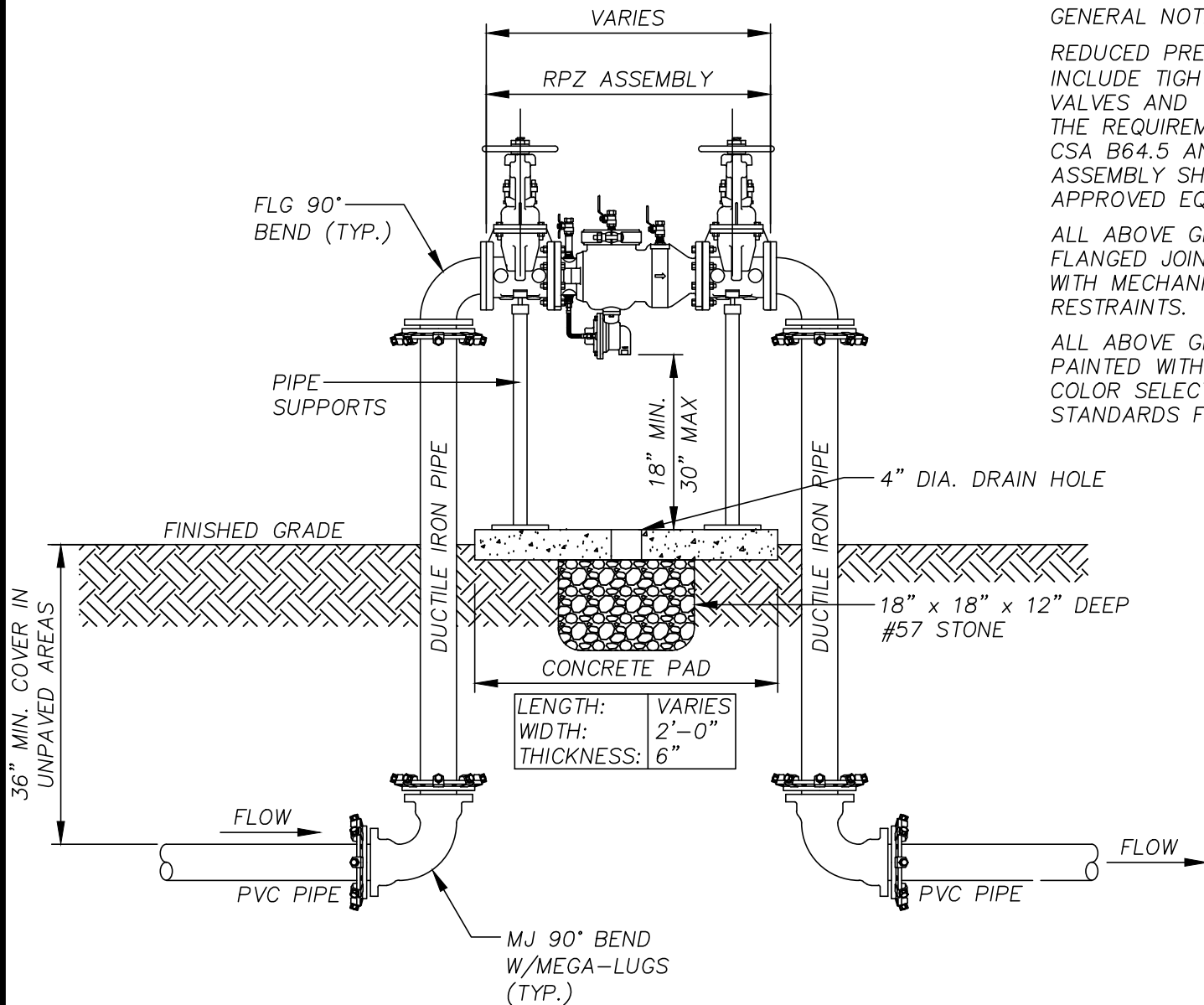
DESIGNED: BGJWSC

DRAWN: HPATEL

DATE: 05/26/2022

SCALE: NTS

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# GENERAL NOTES:

REDUCED PRESSURE ZONE (RPZ) ASSEMBLY SHALL INCLUDE TIGHT CLOSING RESILIENT SEATED SHUTOFF VALVES AND TEST COCKS. THE ASSEMBLY SHALL MEET THE REQUIREMENTS OF ASSE NO. 1015; AWWA C510-92; CSA B64.5 AND UL CLASSIFIED FILE NO. EX3185. ASSEMBLY SHALL BE A ZURN-WILKINS MODEL 375 OR APPROVED EQUAL.

ALL ABOVE GROUND FITTINGS TO BE DUCTILE IRON WITH FLANGED JOINTS. BURIED FITTINGS TO BE DUCTILE IRON WITH MECHANICAL JOINTS UTILIZING MEGA-LUG JOINT RESTRAINTS.

ALL ABOVE GROUND DUCTILE IRON PIPING SHALL BE PAINTED WITH AN EXTERIOR GRADE ENAMEL PAINT. COLOR SELECTION IN ACCORDANCE WITH AWWA STANDARDS FOR POTABLE WATER PIPE.

NOT TO SCALE



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## REDUCED PRESSURE ZONE (RPZ) ASSEMBLY (3" TO 10")

JWSC 2-21A

DESIGNED: BGJWSC

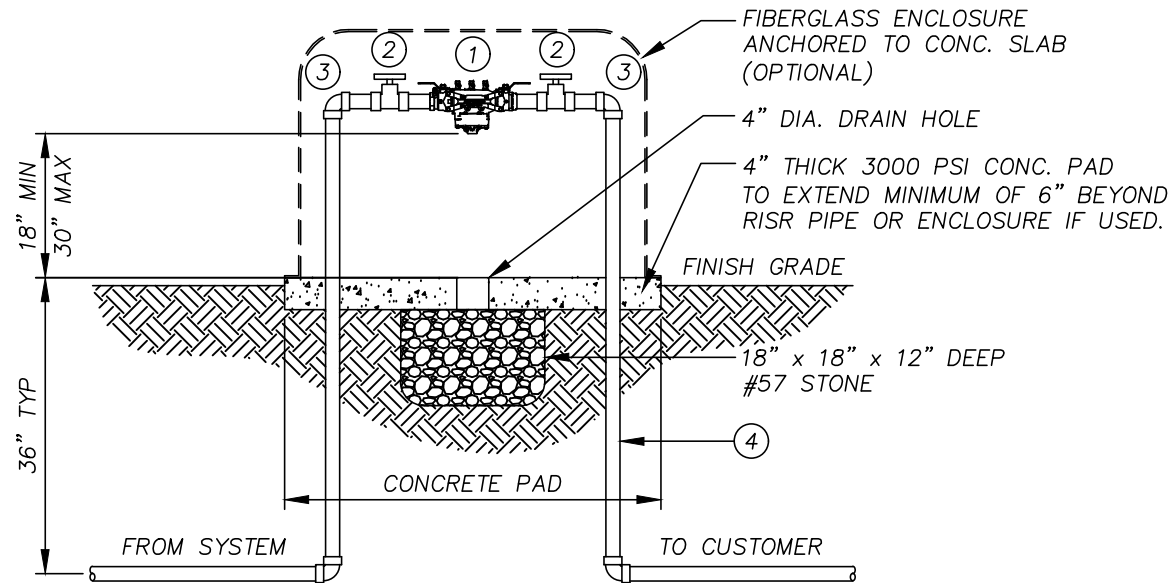
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DATE: 05/26/2022

SCALE: NTS

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### MATERIALS

| QTY. | DESCRIPTION                          |
|------|--------------------------------------|
| 1    | RPZ ASSEMBLY (ZURN-WILKINS OR EQUAL) |
| 2    | FULL PORT BALL VALVE                 |
| 3    | 90° ELBOW                            |
| 4    | BRASS, HARD COPPER OR SCH 80 PVC     |

PROVIDE ALL BRASS FITTINGS, NIPPLES, COUPLINGS, ETC. REQUIRED FOR THE COMPLETE INSTALLATION. FOR INSTALLATIONS LOCATED IN OR NEAR PARKING LOTS AND DRIVEWAYS, STEEL PIPE BOLLARDS ARE RECOMMENDED.

NOT TO SCALE



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## REDUCED PRESSURE ZONE (RPZ) ASSEMBLY (2.5" & SMALLER)

JWSC 2-21B

DESIGNED: BGJWSC

DRAWN: HPATEL

DATE: 05/26/2022

SCALE: NTS

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# ROAD REPAIR REQUIREMENTS:

1. JWSC MUST REVIEW ROAD CUT AND APPROVE FINAL DIMENSIONS OF AREA TO BE PAVED PRIOR TO FINAL PAVING. ALL ROAD CUTS MUST BE NEATLY SQUARE CUT AND PERPENDICULAR TO THE LINES AND GENERAL DIRECTION OF THE ROAD WAY AND A MINIMUM OF 12" BEYOND FINAL DISTURBED AREA. ENTIRE WIDTH OF LANE IS TO BE REPAVED FOR ROAD CUTS THAT ARE UP TO OR EXCEED HALF THE DISTANCE OF THE LANE. ENTIRE WIDTH OF ROAD IS TO BE REPAVED FOR ROAD CUTS THAT ARE UP TO OR EXCEED HALF THE DISTANCE OF THE ROAD. ROAD MUST BE REPAVED AS OUTLINED BELOW PER THE STANDARD JWSC ROAD REPAIR DETAIL WITHIN 30 DAYS AFTER ROAD IS CUT INCLUDING ANY APPLICABLE ROAD STRIPING. COMPACTION TEST IS REQUIRED TO ENSURE 100% COMPACTION OF BACKFILL AND BASE MATERIAL. COMPACTION TEST RESULTS MUST BE FORWARDED TO JWSC REFLECTING TWO RESULTS OF THE BACKFILL AND BASE MATERIAL.

2. CUTS EXCEEDING 150 FEET IN LENGTH, THE BASE MATERIAL SHALL BE BROUGHT FLUSH TO THE BOTTOM OF THE EXISTING PAVEMENT, EXISTING PAVEMENT SHALL BE SAW CUT TO A STRAIGHT EDGE AND THE ENTIRE WIDTH OF THE ROADWAY RESURFACED WITH A MINIMUM OF 1" OF TYPE "E" ASPHALT TOPPING.

3. DEPENDING ON THE EXISTING ROAD CONDITION, TIE IN POINTS MAY REQUIRE ADDITIONAL MILLING AND BLENDING AS DETERMINED BY JWSC.

4. DEPENDING ON THE EXISTING ROAD CONDITION AND LOCATION OF THE ROAD CUT, FLOWABLE FILL MAY BE REQUIRED AS BACKFILL MATERIAL. TO BE DETERMINED BY JWSC.

5. ANY PAVEMENT REPLACEMENT WITHIN G-DOT, GLYNN COUNTY OR CITY OF BRUNSWICK RIGHTS-OF-WAY PLEASE REFER TO THEIR LATEST DETAIL STANDARDS AND SPECIFICATIONS.

## NOTE:

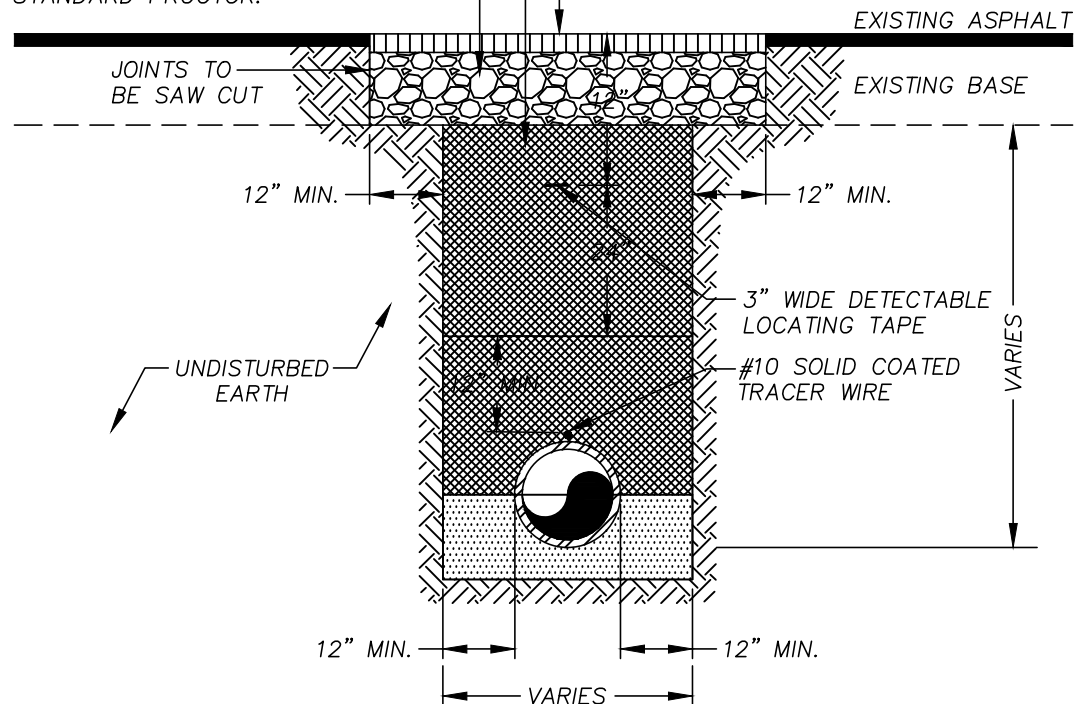
IF THE EXISTING ROAD SURFACE HAS IRREGULARITIES ON EITHER SIDE OF THE PROPOSED STREET CUT AN ASPHALT OVERLAY MAY BE REQUIRED TO MAKE A SMOOTH RIDING SURFACE. ALL IRREGULARITIES IN EXCESS OF 3/16 INCH IN TEN FEET SHALL BE CORRECTED.

SURFACE COURSE: ASPHALTIC CONCRETE "E" WITH TACK APPLIED WHERE APPLICABLE. DEPTH TO BE DETERMINED DURING PERMIT PROCESS.

BACKFILL: SHALL BE PLACED IN LIFTS NOT EXCEEDING 12 INCHES IN THICKNESS AND COMPACTED TO 100% STANDARD PROCTOR.

BASE: 10 INCHES OF LIMEROCK OR GAB COMPACTED TO 100% STANDARD PROCTOR.

NOTE: CONCRETE MATERIALS SHALL NOT BE USED ON ASPHALT ROADS



NOT TO SCALE



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## ASPHALT PAVEMENT REPLACEMENT

JWSC 2-22

DESIGNED: BGJWSC

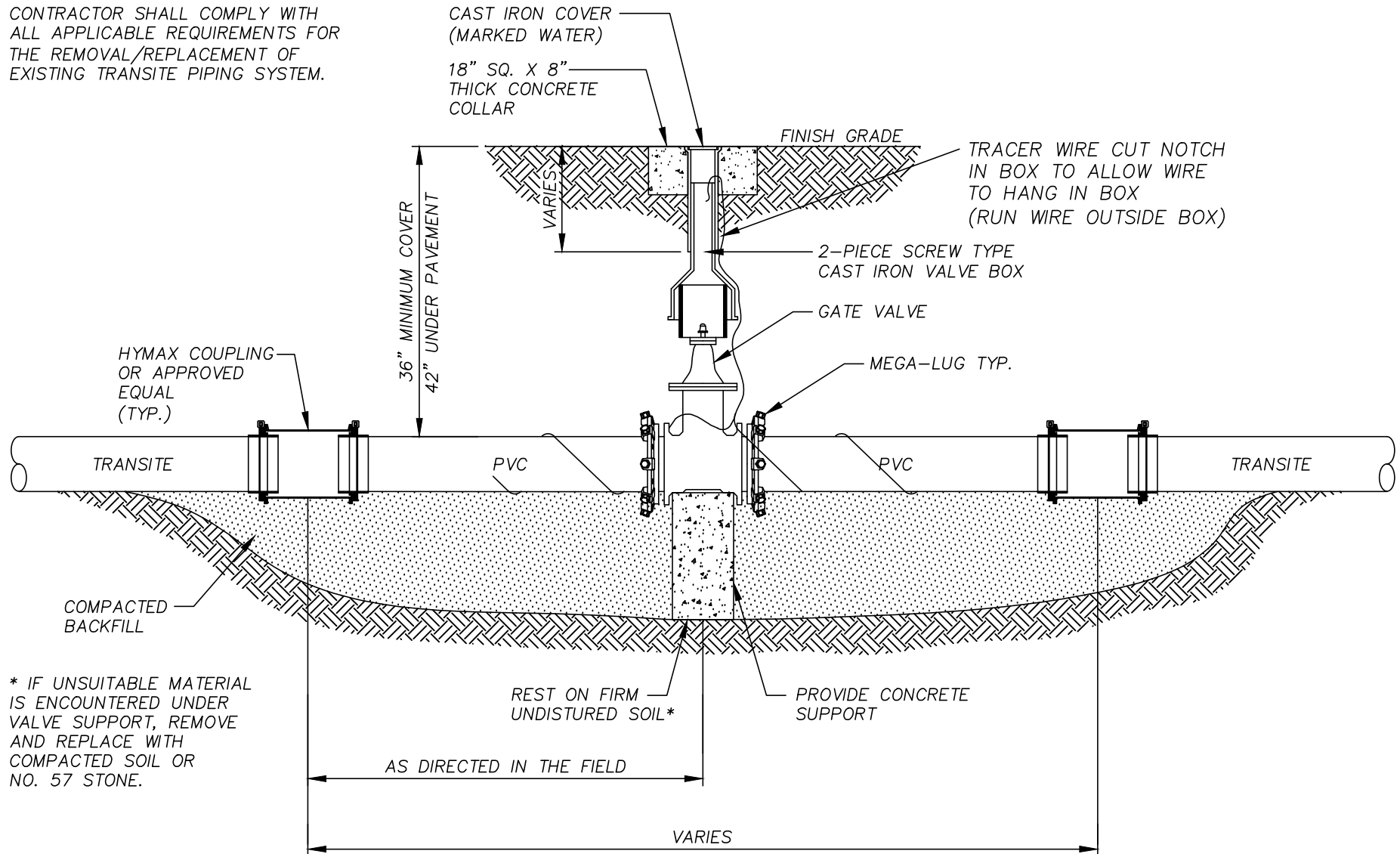
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CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE REQUIREMENTS FOR THE REMOVAL/REPLACEMENT OF EXISTING TRANSITE PIPING SYSTEM.



NOT TO SCALE



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Phone: (912) 261-7110  
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## TRANSITE TO PVC WATER MAIN SPLICE

JWSC 2-24

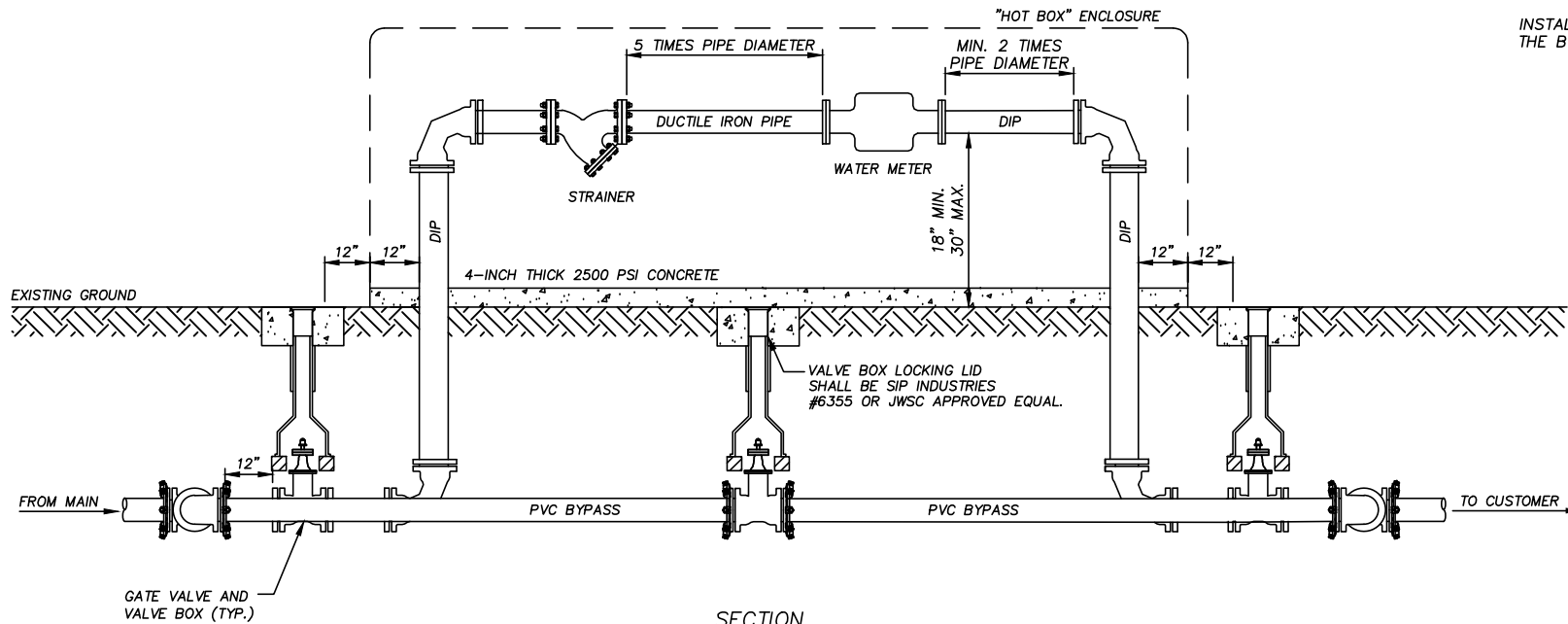
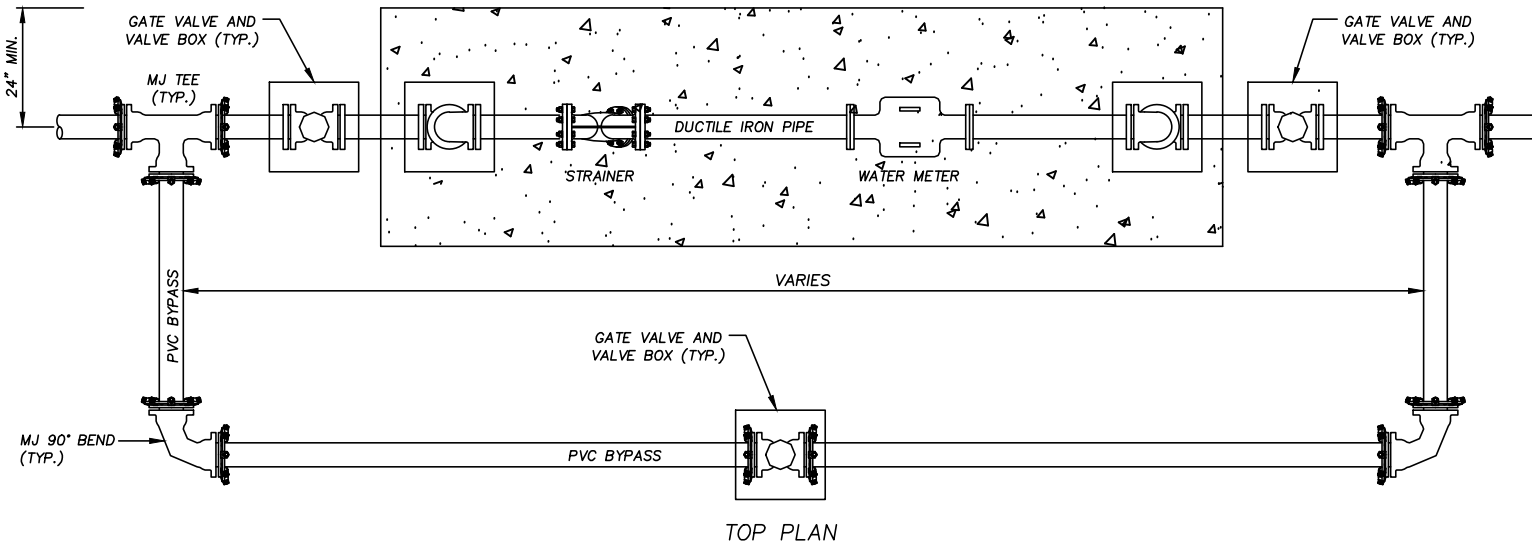
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#### GENERAL NOTES:

WATER METER TO BE PURCHASED FROM THE BRUNSWICK - GLYNN JOINT WATER & SEWER COMMISSION (JWSC). THE OWNER WILL PAY ALL COSTS FOR THE PURCHASE OF THE METER FROM JWSC AS WELL AS ALL ASSOCIATED CONNECTION AND ACCOUNT SET-UP FEES.

CONTRACTOR SHALL BE RESPONSIBLE FOR PICKUP AND DELIVERY OF THE METER FROM JWSC TO THE JOB SITE. CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR WATER METER INSTALLATION INCLUDING ALL NECESSARY PIPE, VALVES, FITTINGS, ACCESSORIES, AND ALL OTHER WORK AND APPURTENANCES REQUIRED.

ABOVE GROUND FITTINGS TO BE DUCTILE IRON WITH FLANGED JOINTS. BURIED FITTINGS TO BE DUCTILE IRON WITH MECHANICAL JOINTS UTILIZING MEGA-LUG JOINT RESTRAINTS.

ALL DUCTILE IRON PIPE SHALL BE COATED WITH A BITUMINOUS COATING WITH A MINIMUM THICKNESS OF 2 MILS OR WRAPPED IN PLASTIC.

TRANSMITTER FOR THE WATER METER SHALL BE LOCATED AS DIRECTED BY THE JWSC INSPECTOR.

BYPASS VALVE WILL REMAIN IN THE CLOSED POSITION AT ALL TIMES.

METER TO BE HOUSED IN A "HOT BOX" ENCLOSURE OR JWSC APPROVED EQUAL. ANCHOR ENCLOSURE WITH RED HEAD INSERTS AND 3/8" BOLTS.

INSTALL A LOCK TYPE TWO-PIECE VALVE BOX ON THE BY-PASS VALVE PER JWSC SPECIFICATION.

NOT TO SCALE



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## ABOVE GRADE WATER METER INSTALLATION DETAIL (3" & LARGER)

JWSC 2-25

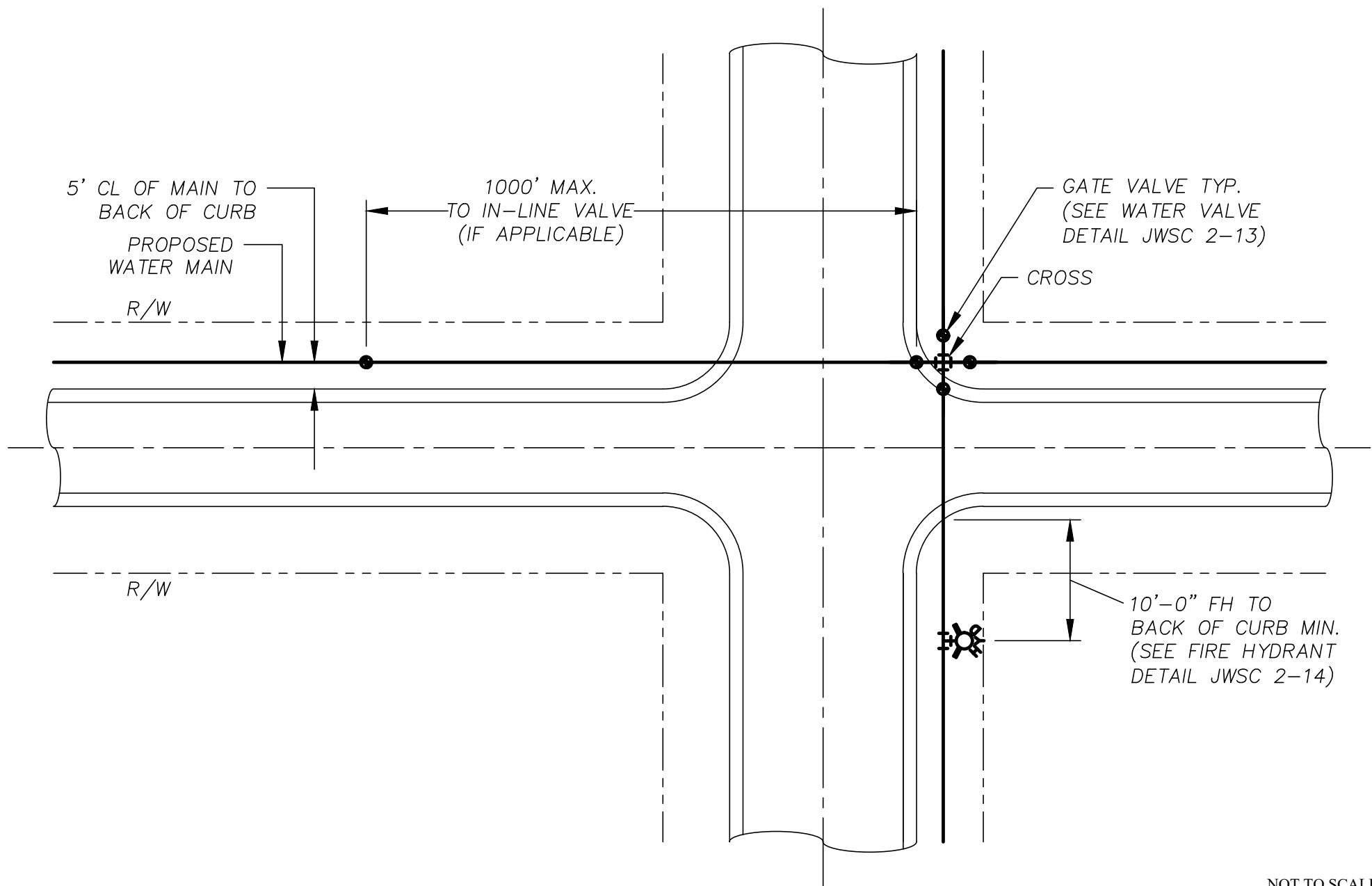
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DATE: 05/26/2022

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Fax: (912) 261-7178

## WATER MAIN AT 4-WAY INTERSECTION

JWSC 2-26

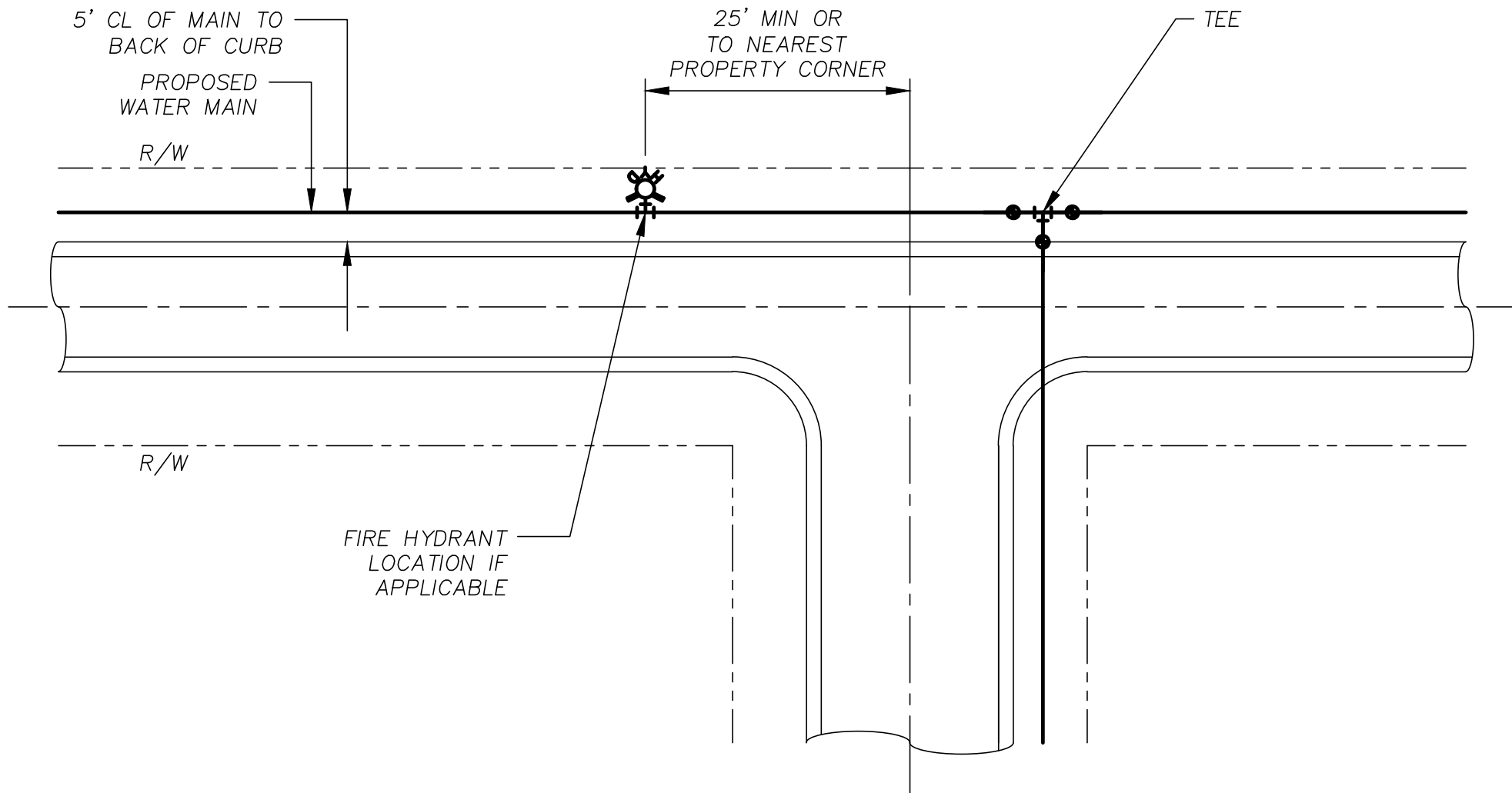
DESIGNED: BGJWSC

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DATE: 05/26/2022

SCALE: NTS

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## WATER MAIN AT TEE INTERSECTION

JWSC 2-26A

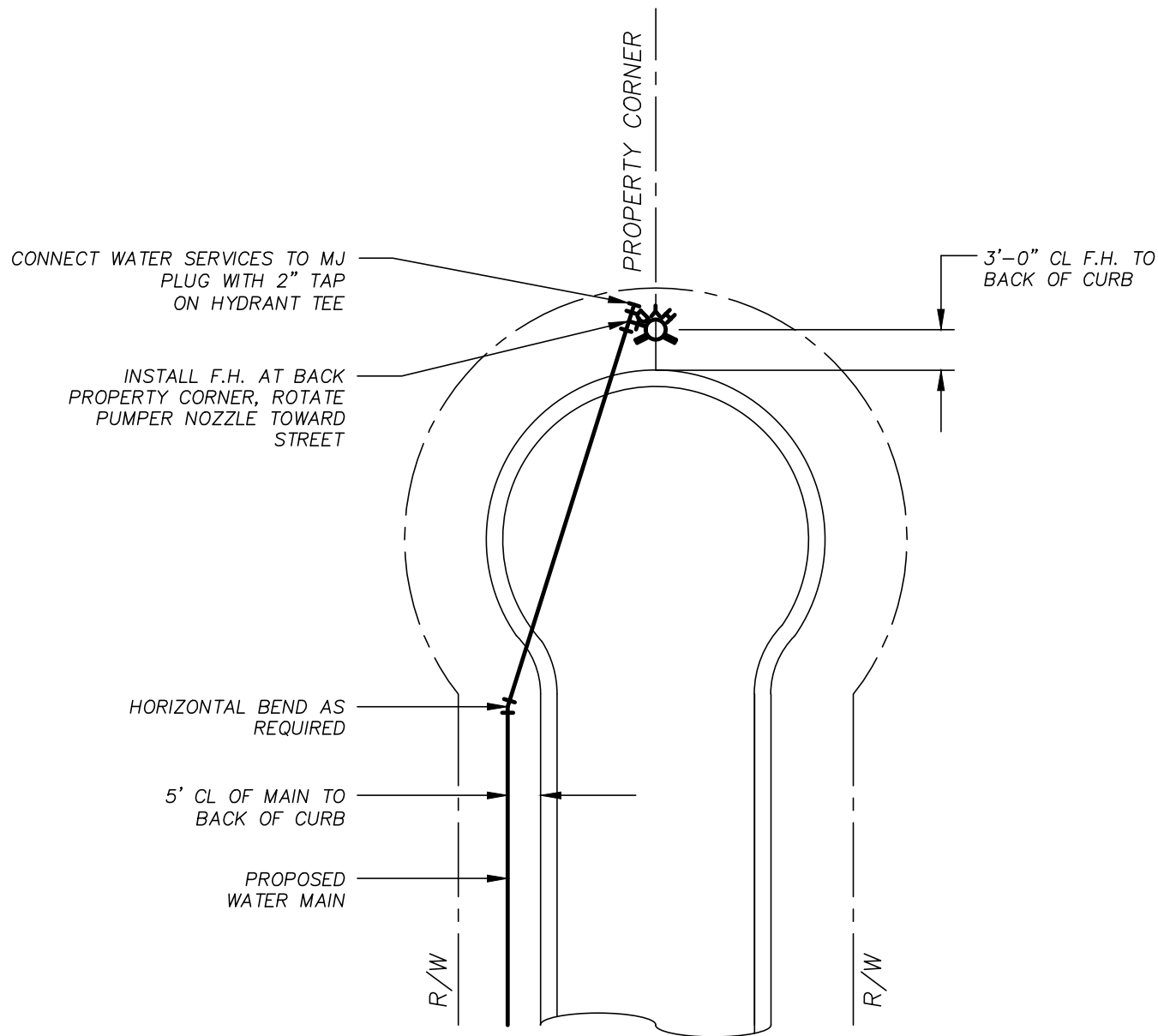
DESIGNED: BGJWSC

DRAWN: HPATEL

DATE: 05/26/2022

SCALE: NTS

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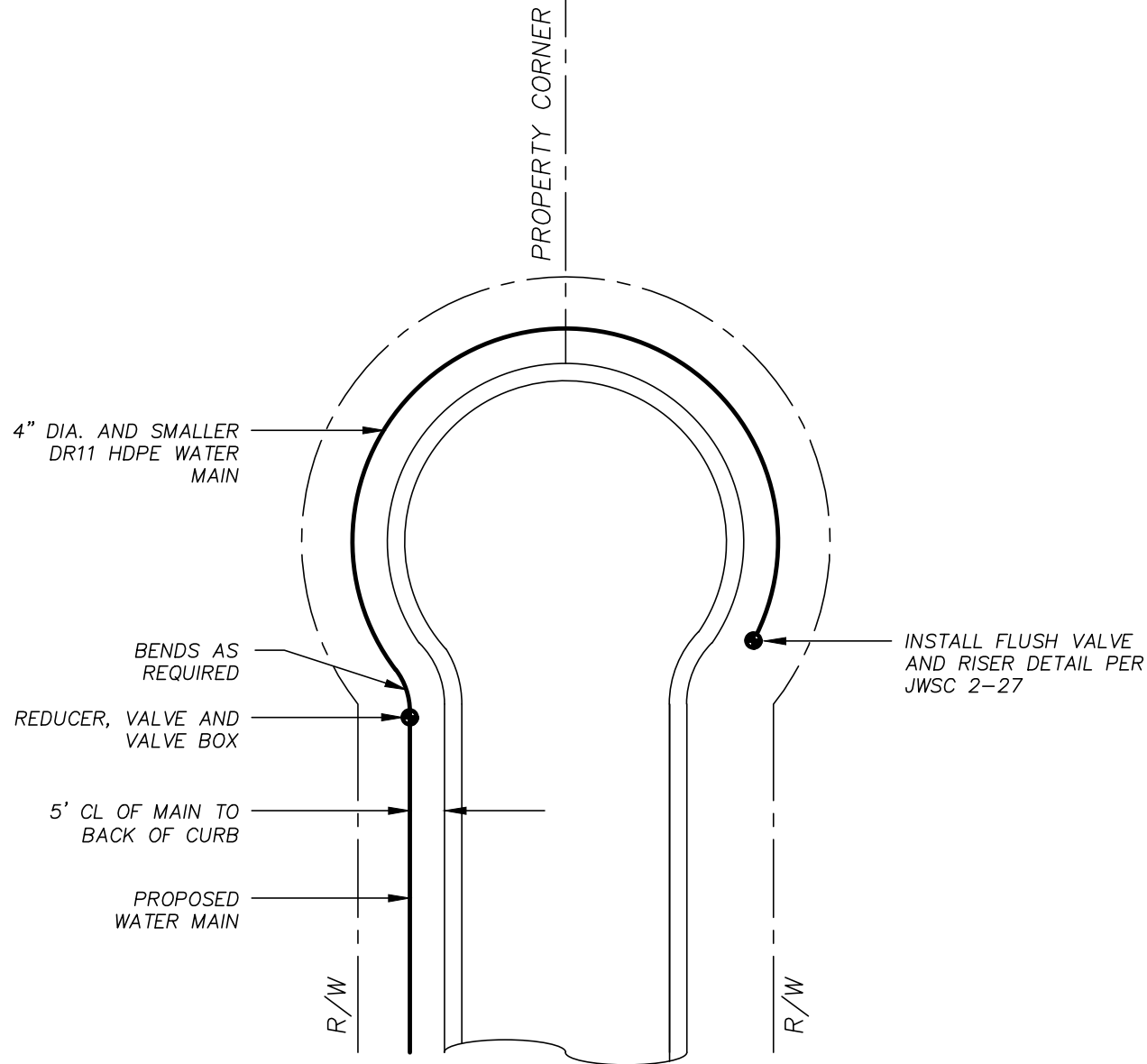
## WATER MAIN AT CUL-DE-SAC

JWSC 2-26B

DESIGNED: BGJWSC DRAWN: HPATEL

DATE: 05/26/2022 SCALE: NTS

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## WATER MAIN AT CUL-DE-SAC 4" AND SMALLER

JWSC 2-26C

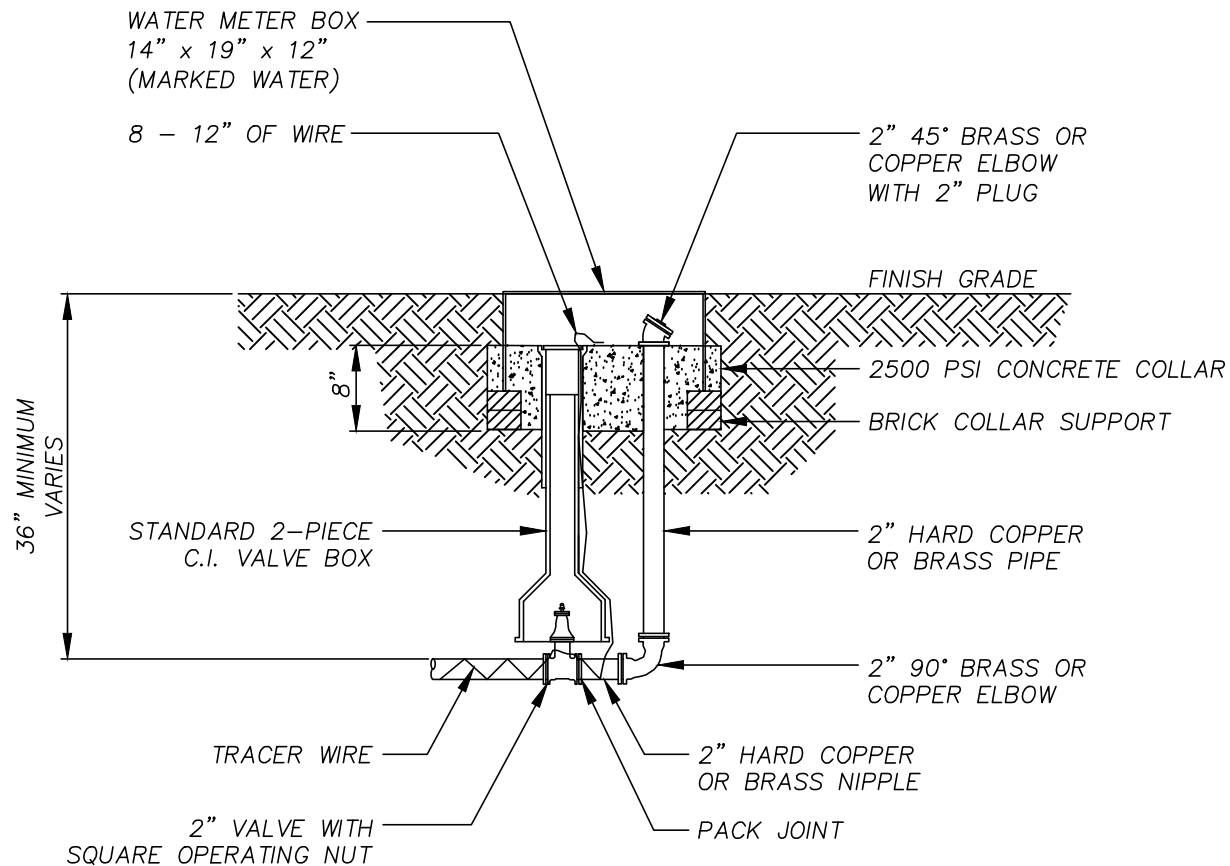
DESIGNED: BGJWSC

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GENERAL NOTES:

1. THIS INSTALLATION IS TO BE MADE AT THE END OF DEAD END LINES AND SHALL BE LOCATED OUTSIDE OF THE TRAFFIC AREAS.
2. PRIOR TO INSTALLATION OF CONCRETE COLLAR, THE FLUSH VALVE ASSEMBLY SHALL BE TESTED TO ENSURE THE FLOW CLEARS THE EDGE OF THE BOX.

NOT TO SCALE



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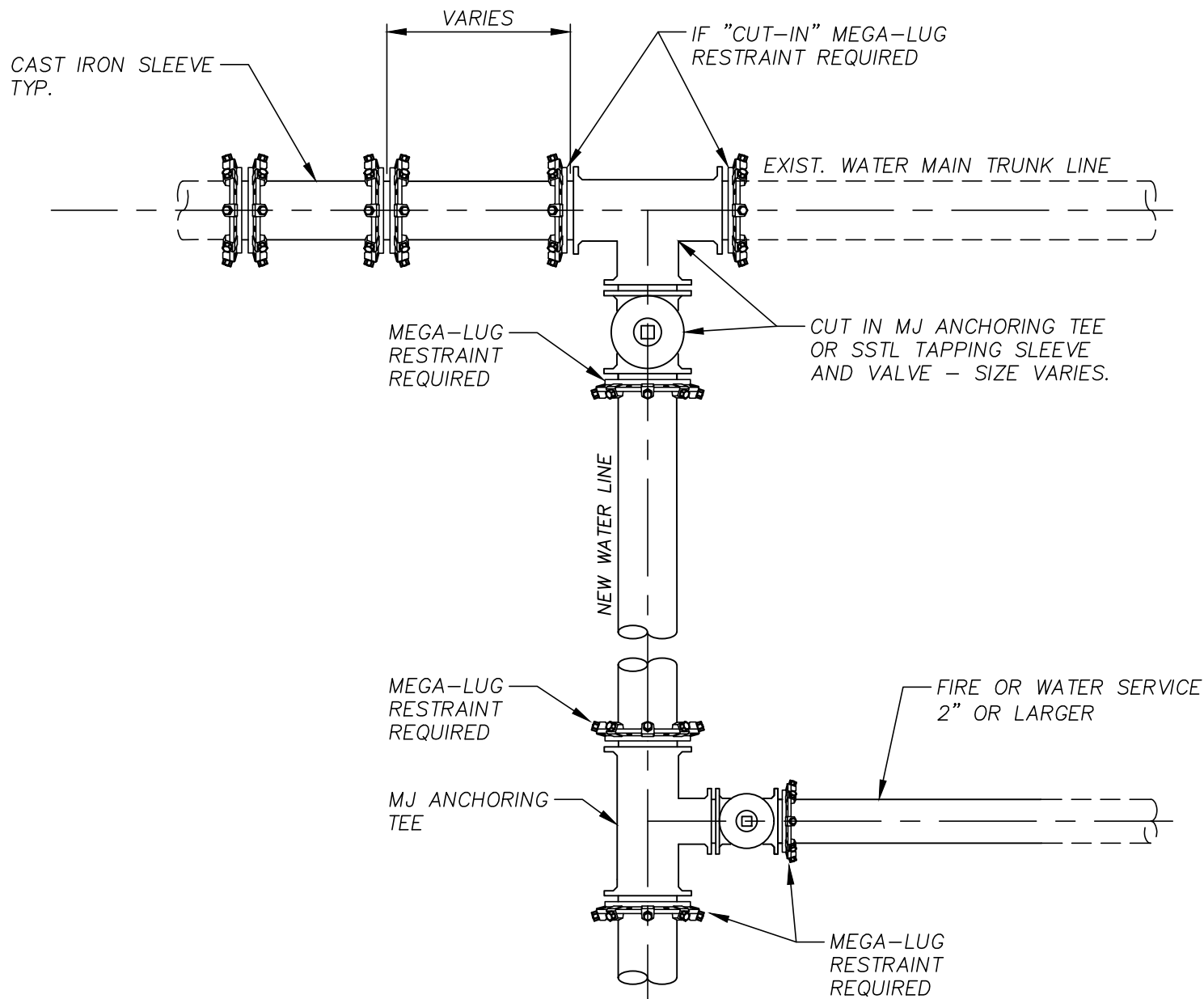
**FLUSH VALVE AND  
RISER DETAIL**

**JWSC 2-27**

DESIGNED: BGJWSC    DRAWN: HPATEL  
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## TEE CONNECTION TO NEW WATER MAIN

JWSC 2-28

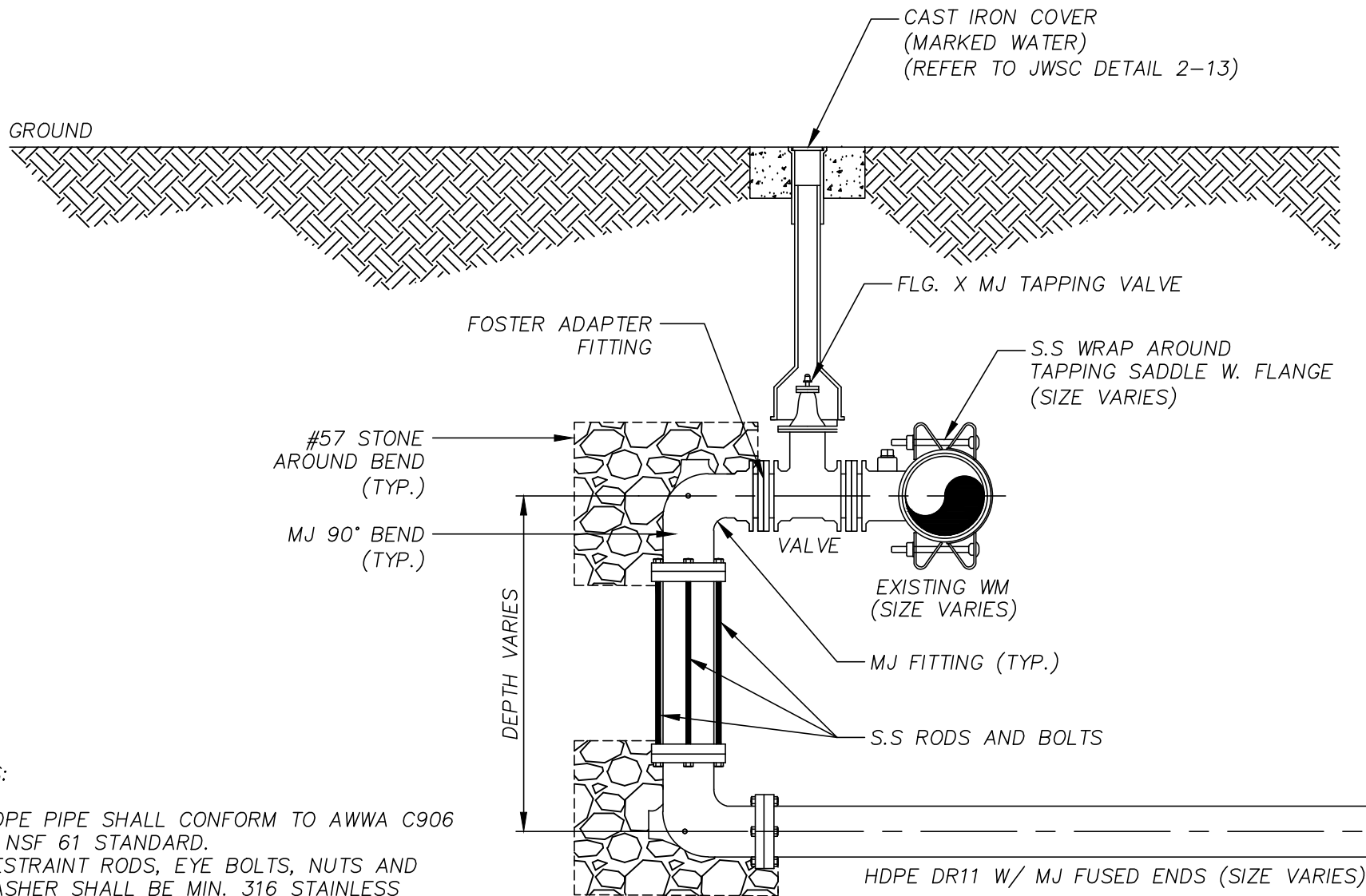
DESIGNED: BGJWSC

DRAWN: HPATEL

DATE: 05/26/2022

SCALE: NTS

| BY | REVISION | DATE |
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**NOTES:**

1. HDPE PIPE SHALL CONFORM TO AWWA C906 & NSF 61 STANDARD.
2. RESTRAINT RODS, EYE BOLTS, NUTS AND WASHER SHALL BE MIN. 316 STAINLESS STEEL (SEE 2.4.3.3 FIGURE WD-2 FOR ROD SIZE AND NO. OF RODS).
3. **THE APPROVAL OF THIS TYPE OF INSTALLATION MUST COME FROM THE JWSC WATER DISTRIBUTION SUPERINTENDENT.**

NOT TO SCALE



**BRUNSWICK-GLYNN JOINT WATER  
& SEWER COMMISSION**

1703 Gloucester Street  
Brunswick, Georgia 31520

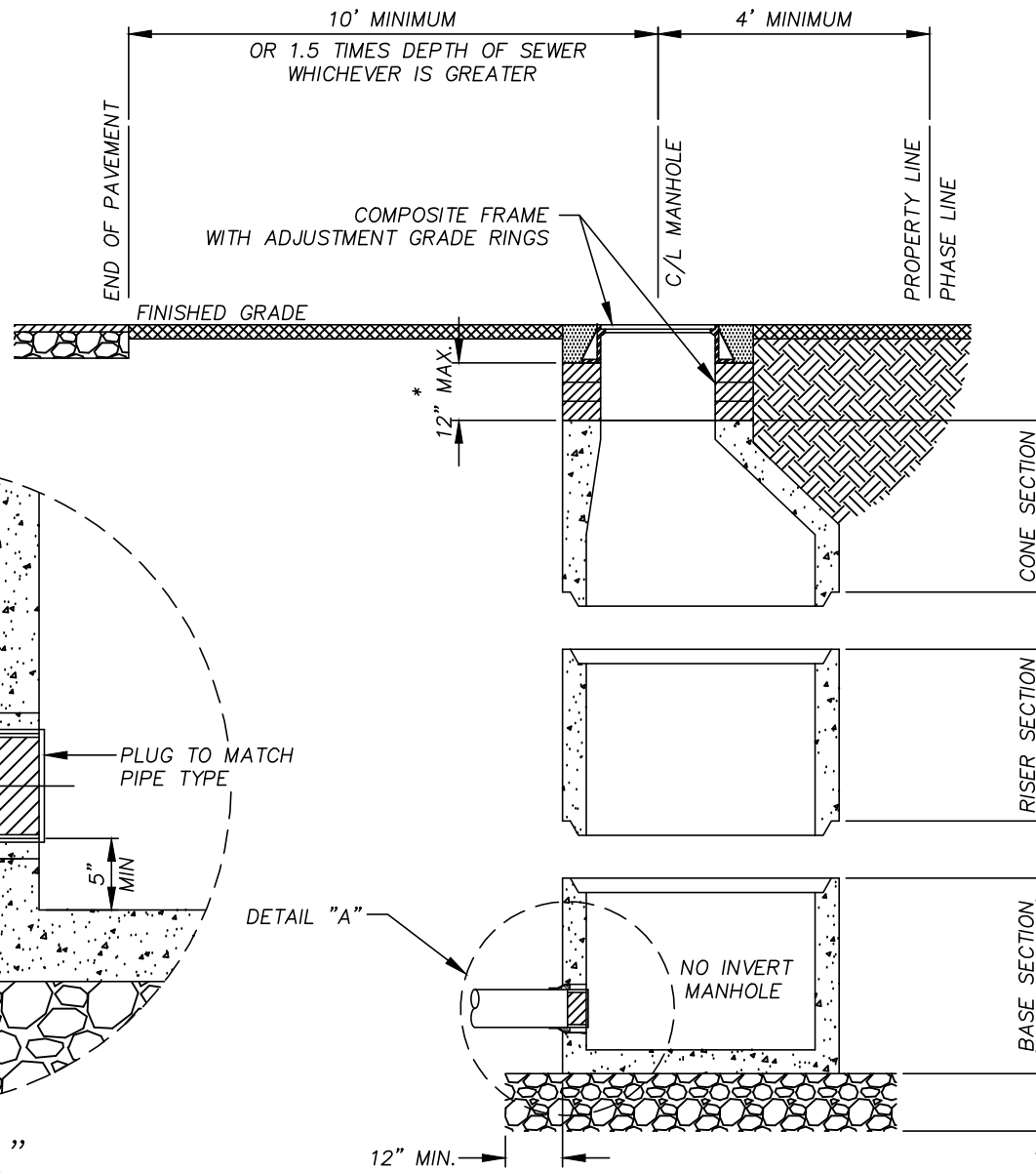
Phone: (912) 261-7110  
Fax: (912) 261-7178  
Website: [www.bgjwsc.org](http://www.bgjwsc.org)

**REVERSE TAP DETAIL**

**JWSC 2-29**

DESIGNED: BGJWSC    DRAWN: HPATEL  
DATE: 05/26/2022    SCALE: NTS

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# GENERAL NOTES:

CONCRETE: 4000 PSI TYPE II CEMENT

WALL REINFORCING: ASTM C-478

BOTTOM REINFORCING: #4@12" O.C.E.W.

GRADE 40 OR EQUIVALENT  
WELDED WIRE MESH

\* VARIABLE GRADE ADJUSTMENT  
BY LADTECH GRADE RINGS OR  
APPROVED EQUAL AS REQUIRED

DETAIL "A"

NOT TO SCALE



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## GRAVITY MAIN STUB OUT MANHOLE

JWSC 3-1

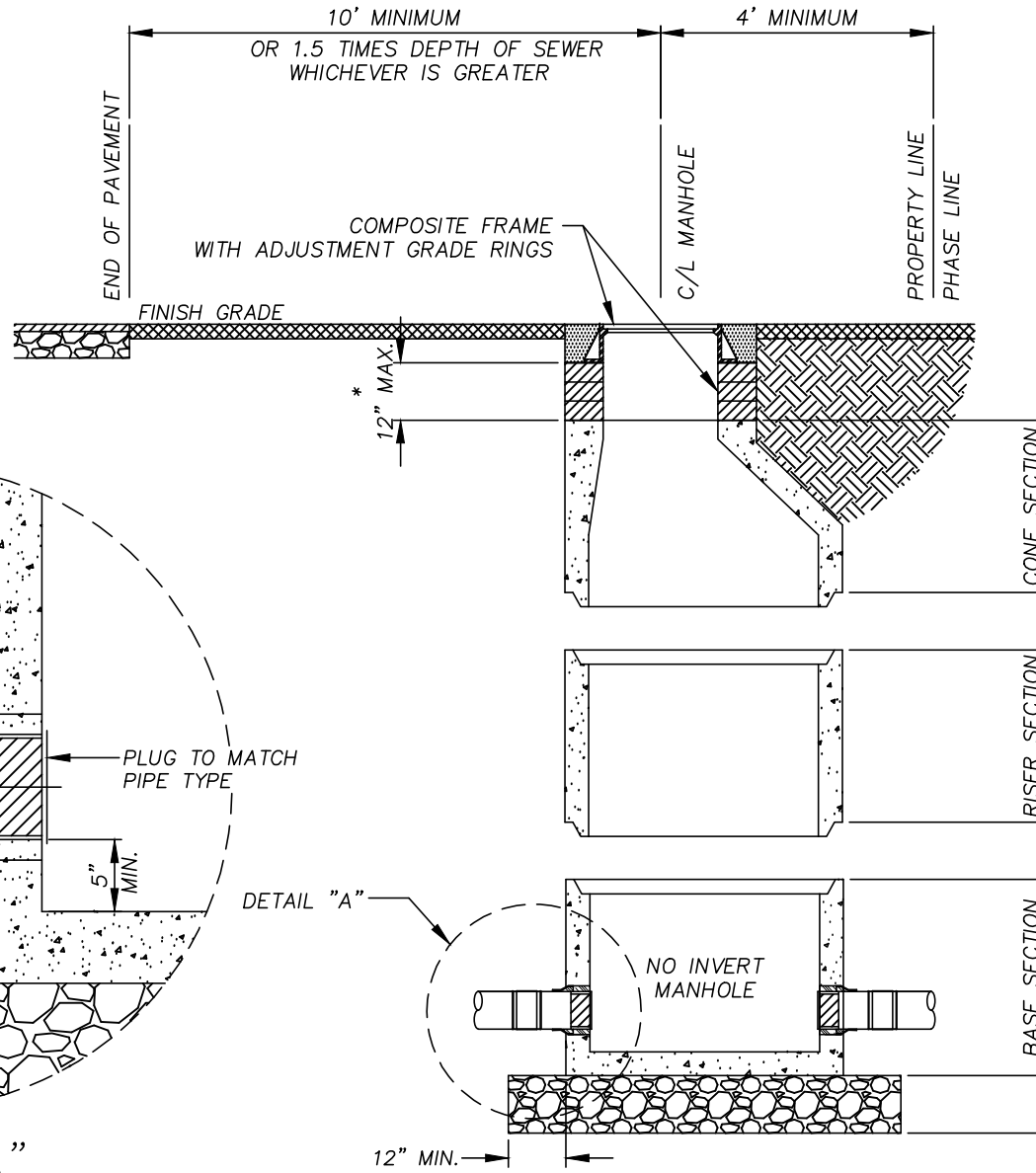
DESIGNED: BGJWSC

DRAWN: HPATEL

DATE: 05/26/2022

SCALE: NTS

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GENERAL NOTES:

CONCRETE: 4000 PSI TYPE II CEMENT

WALL REINFORCING: ASTM C-478

BOTTOM REINFORCING: #4@12" O.C.E.W.

CUT OUT EXISTING SEWER MAIN

INSTALL BASE SECTIONS WITH RUBBER BOOTS TO MATCH PIPE INVERT

INSTALL NEW PIPE AND CONNECT TO THE EXISTING SEWER MAIN WITH A MISSION ADJUSTABLE REPAIR COUPLING (ARC) OR APPROVED EQUAL

REMOVE PLUG AFTER INSTALLATION IS COMPLETE

GRADE 40 OR EQUIVALENT WELDED WIRE MESH

\* VARIABLE GRADE ADJUSTMENT BY LADTECH GRADE RINGS OR APPROVED EQUAL AS REQUIRED

NOT TO SCALE



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**CUT-IN MANHOLE BASE**

**JWSC 3-1A**

DESIGNED: BGJWSC

DRAWN: HPATEL

DATE: 05/26/2022

SCALE: NTS

| BY | REVISION | DATE |
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GENERAL NOTES:

CONCRETE: 4000 PSI TYPE II CEMENT

WALL REINFORCING: ASTM C-478

BOTTOM REINFORCING: #4@12" O.C.E.W.

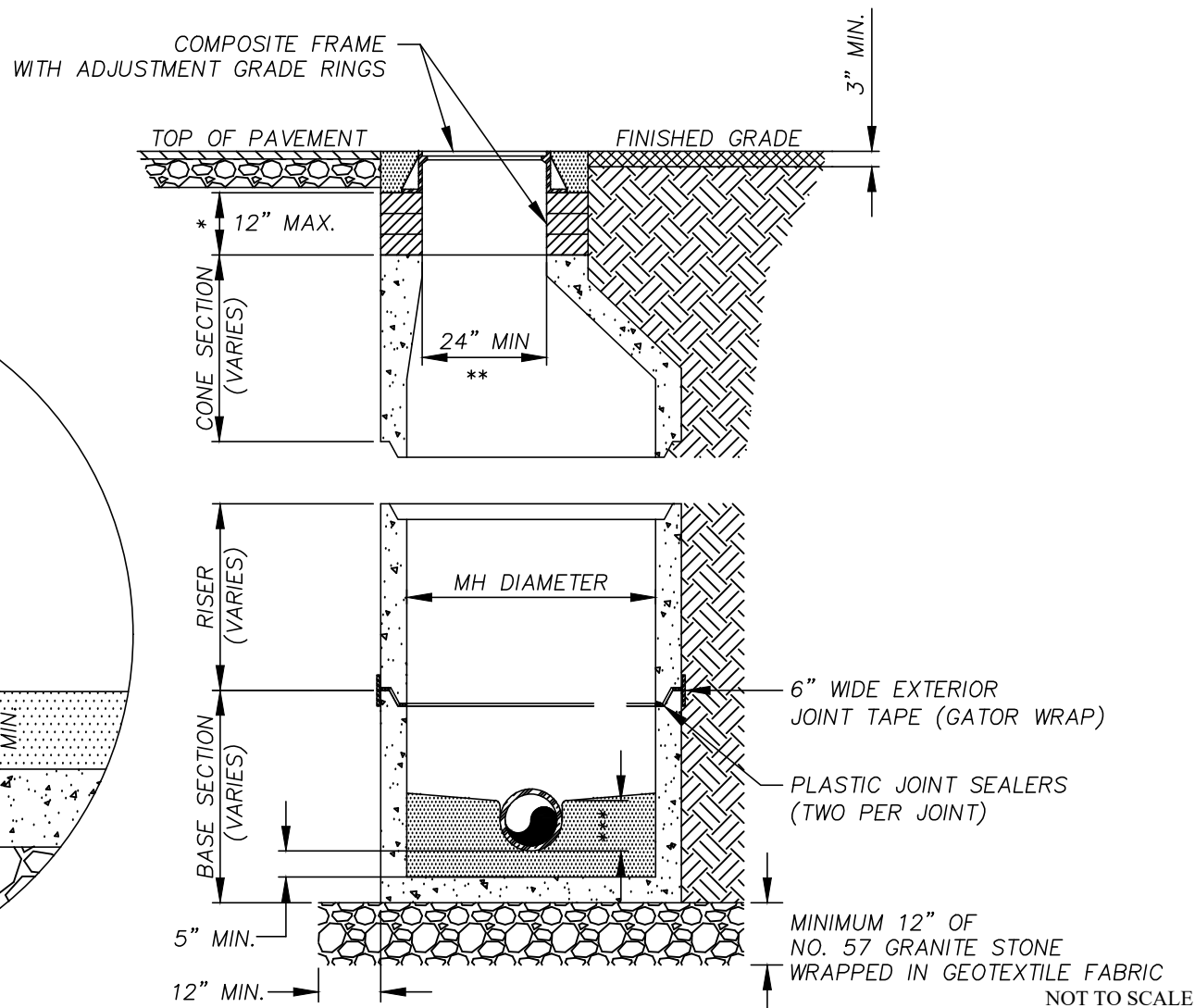
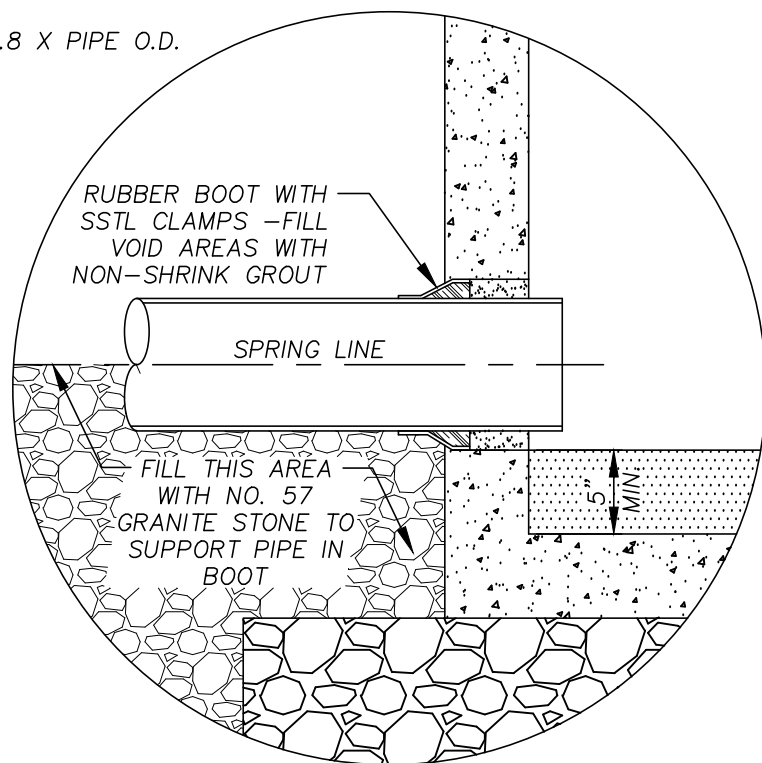
GRADE 40 OR EQUIVALENT WELDED WIRE MESH

\* VARIABLE GRADE ADJUSTMENT BY LADTECH GRADE RINGS OR APPROVED EQUAL AS REQUIRED

\*\* INCREASE TO 32" ON TRUNK LINES WHERE SEWER IS 18" IN DIAMETER OR GREATER.

\*\*\* 0.8 X PIPE O.D.

| PIPE SIZE    | MANHOLE DIAMETER |
|--------------|------------------|
| 6" THRU 15"  | 4'-0"            |
| 18" THRU 30" | 5'-0"            |
| 36" THRU 48" | 6'-0"            |
| > 48"        | 8'-0"            |



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**STANDARD MANHOLE  
SECTION**

**JWSC 3-2A**

DESIGNED: BGJWSC

DRAWN: HPATEL

DATE: 05/26/2022

SCALE: NTS

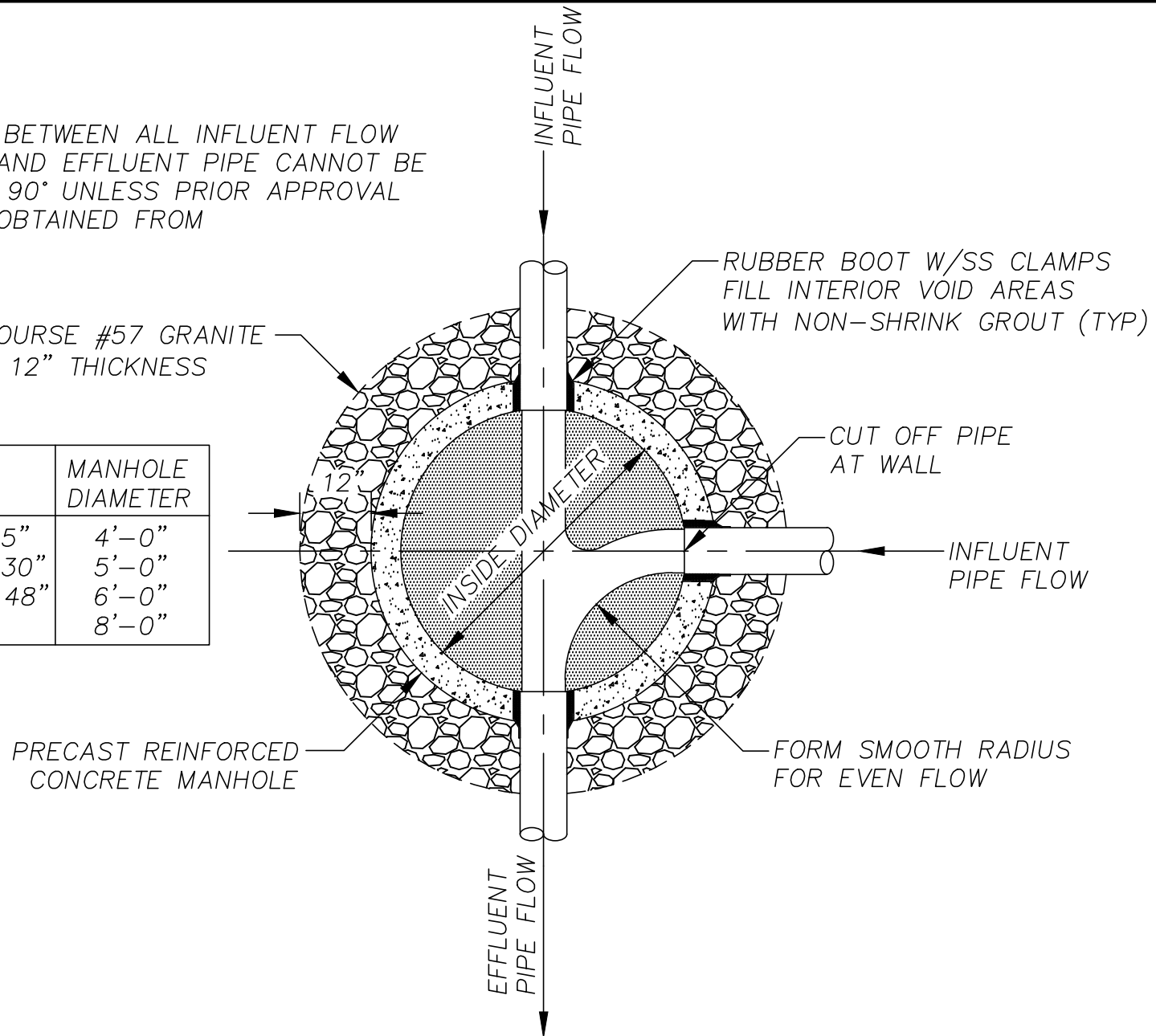
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NOTE:

THE ANGLE BETWEEN ALL INFLUENT FLOW CHANNELS AND EFFLUENT PIPE CANNOT BE LESS THAN 90° UNLESS PRIOR APPROVAL HAS BEEN OBTAINED FROM THE JWSC

LEVELING COURSE #57 GRANITE STONE MIN. 12" THICKNESS

| PIPE SIZE    | MANHOLE DIAMETER |
|--------------|------------------|
| 6" THRU 15"  | 4'-0"            |
| 18" THRU 30" | 5'-0"            |
| 36" THRU 48" | 6'-0"            |
| > 48"        | 8'-0"            |



NOT TO SCALE



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## STANDARD MANHOLE PLAN

JWSC 3-2B

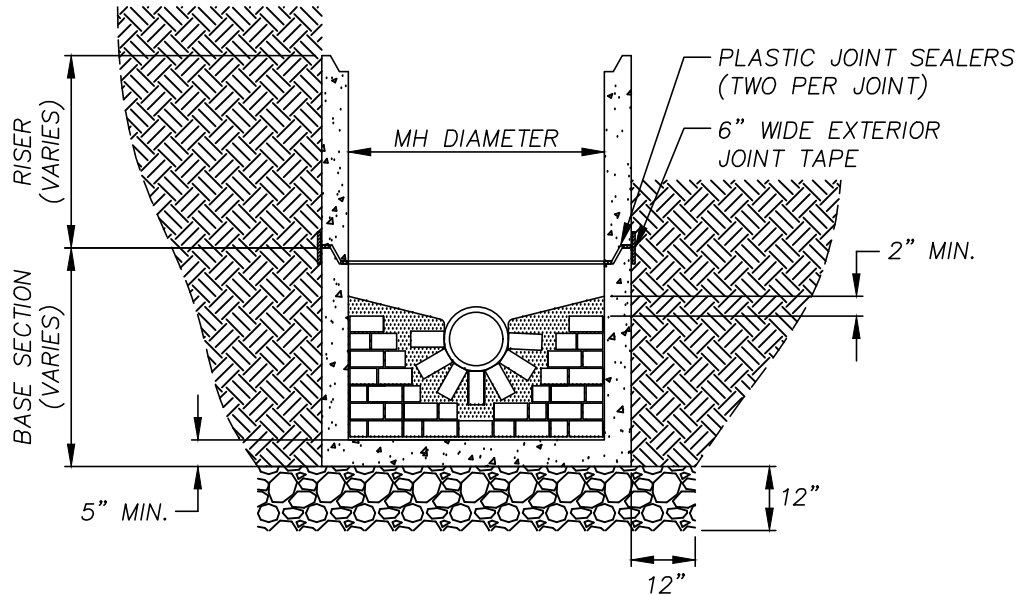
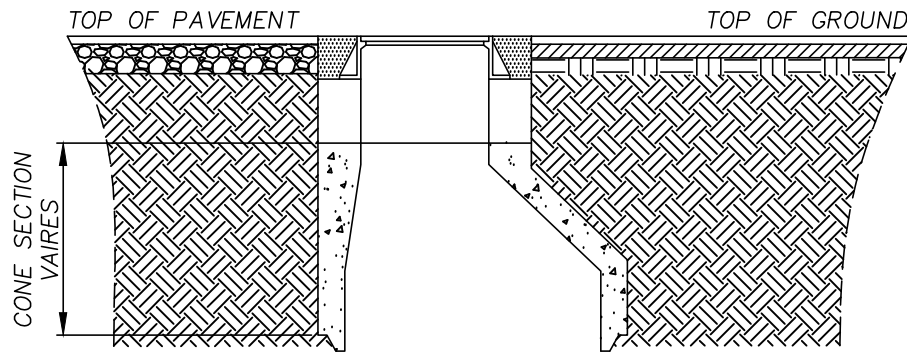
DESIGNED: BGJWSC

DRAWN: HPATEL

DATE: 05/26/2022

SCALE: NTS

| BY | REVISION | DATE |
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#### GENERAL NOTES:

CONCRETE USED FOR INVERTS MUST NOT EXCEED 3 PARTS SAND TO 1 PART PORTLAND CEMENT.  
(MORTAR IS NOT ALLOWED)

PRECAST INVERTS ARE ACCEPTABLE

ENSURE A 0.1 FOOT DROP ACROSS INVERT

INVERTS FOR MANHOLES RECEIVING FORCEMAINS SHALL BE SIMILARLY CONSTRUCTED.

MAXIMUM GROUT SPACING BETWEEN BRICK SHALL BE 3/8"

| PIPE SIZE         | DEFLECTION | MIN. MH DIA. |
|-------------------|------------|--------------|
| 8 INCH & 15 INCH  | 0° - 90°   | 4' - 0"      |
| 18 INCH           | 0° - 60°   | 4' - 0"      |
| 18 INCH           | 60° - 90°  | 5' - 0"      |
| 21 INCH & 24 INCH | 0° - 60°   | 5' - 0"      |
| 21 INCH & 24 INCH | 60° - 90°  | 6' - 0"      |

NOT TO SCALE



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## STANDARD MH SECTION BRICK INVERT AND APRON CONSTRUCTION

JWSC 3-2C

DESIGNED: BGJWSC

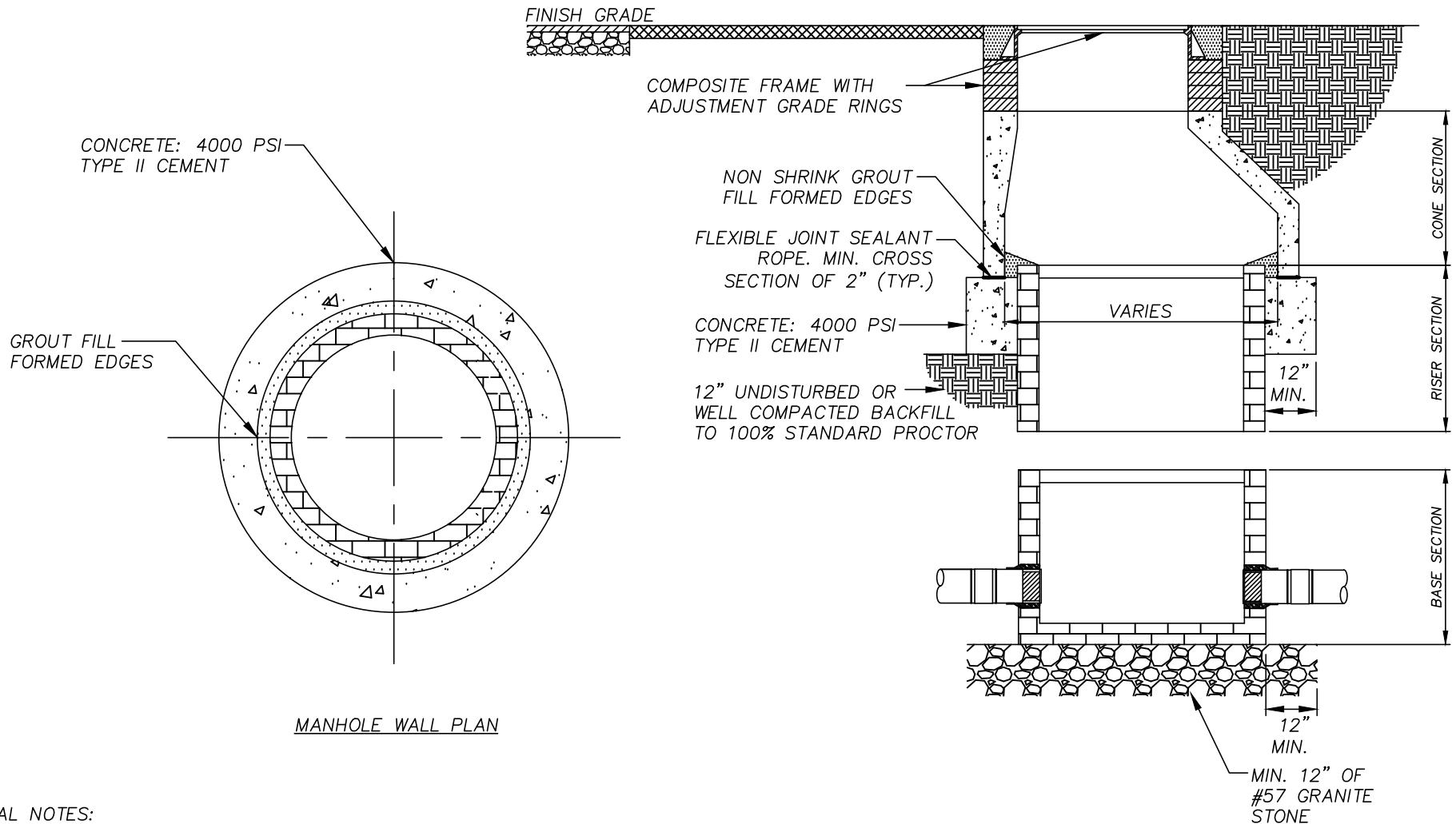
DRAWN: HPATEL

DATE: 05/26/2022

SCALE: NTS

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GENERAL NOTES:

CONTRACTOR TO MEASURE O.D. OF EXISTING BRICK MANHOLE AND INSTALL THE NEXT NOMINAL SIZE CONE SECTION. FOOTER MUST SET A MIN. 72 HOURS BEFORE THE PRECAST SECTION IS INSTALLED. INSTALL FLEXIBLE BUTYL RUBBER SEALANT BETWEEN THE FOOTER AND PRECAST CONE. FOR CORROSION PROTECTION, STRUCTURE IS TO BE LINED WITH JWSC APPROVED COATING.

NOT TO SCALE



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**BRICK TO PRECAST MH  
TRANSITION DETAIL**

**JWSC 3-2D**

DESIGNED: BGJWSC

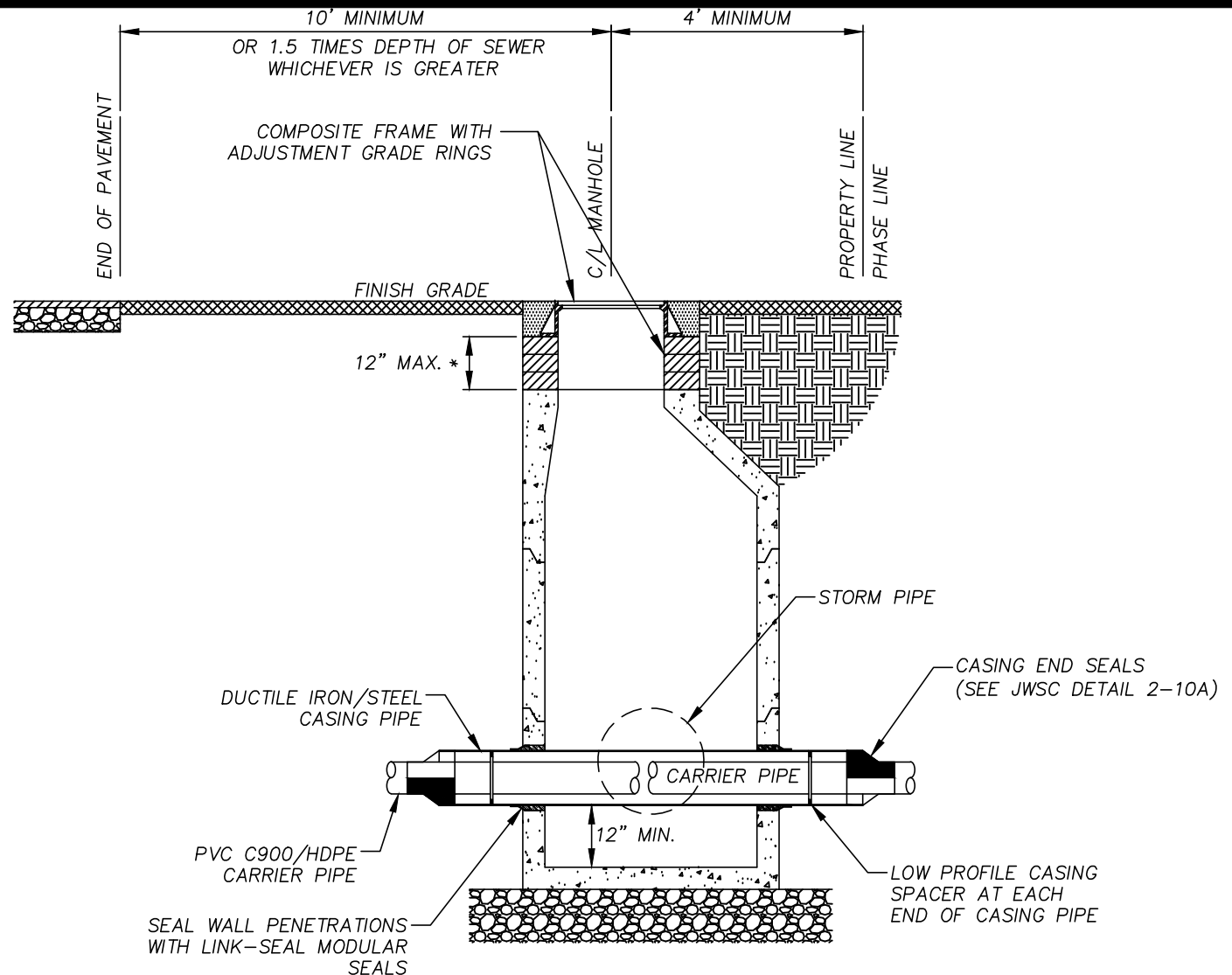
DRAWN: HPATEL

DATE: 05/26/2022

SCALE: NTS

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#### GENERAL NOTES

CONCRETE: 4000 PSI TYPE II CEMENT

WALL REINFORCING: ASTM C-478

BOTTOM REINFORCING: #4@12" O.C.E.W.

GRADE 40 OR EQUIVALENT WELDED WIRE  
MESH

\* VARIABLE GRADE ADJUSTMENT BY  
LADTECH GRADE RINGS OR APPROVED  
EQUAL AS REQUIRED

CONFLICT MANHOLE

NOT TO SCALE



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Fax: (912) 261-7178

## CONFLICT MANHOLE DETAIL

JWSC 3-2E

DESIGNED: BGJWSC

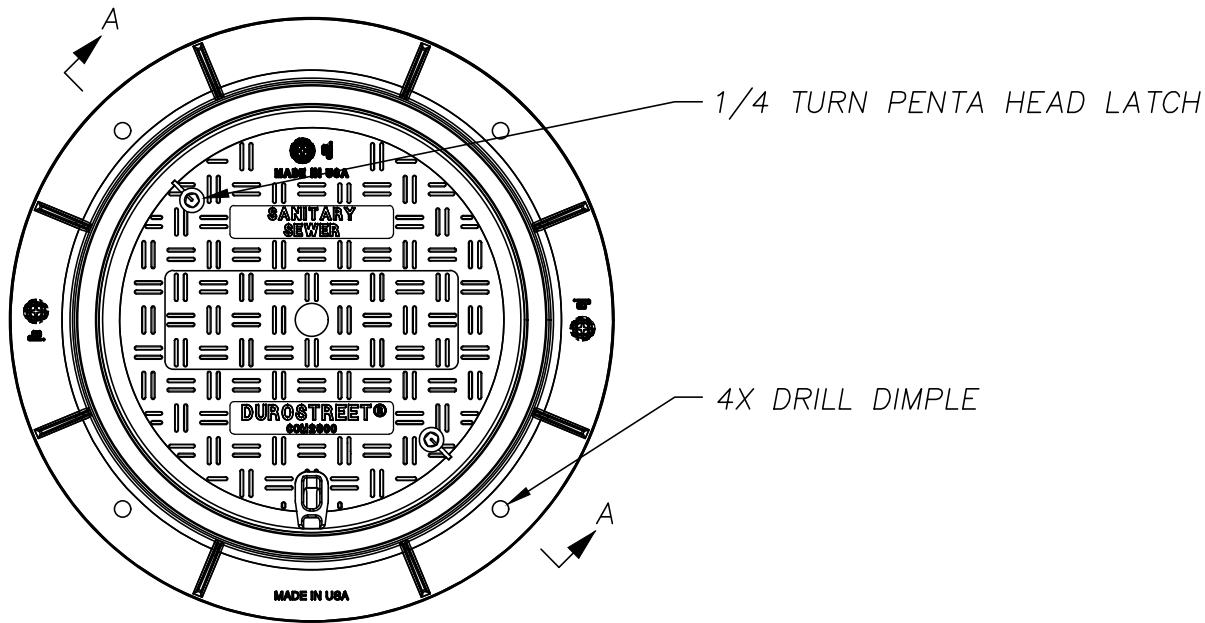
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DATE: 05/26/2022

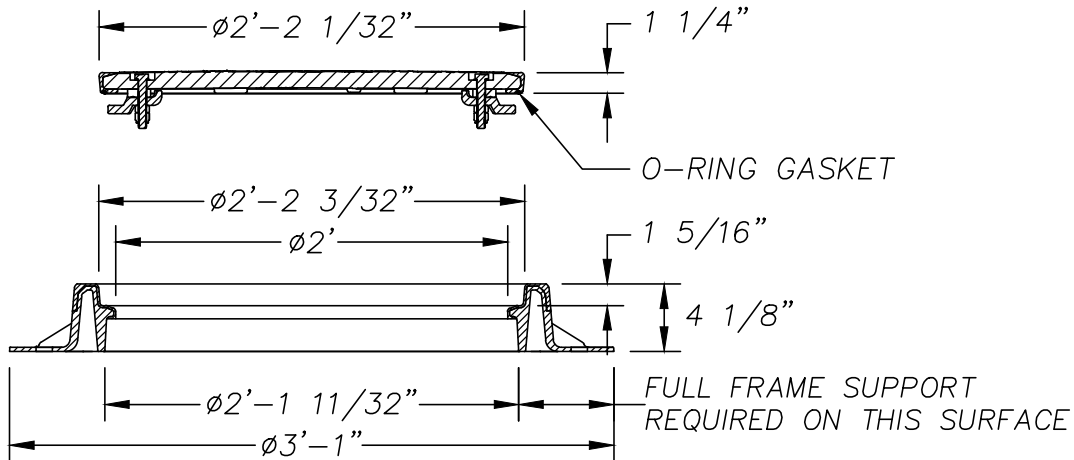
SCALE: NTS

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# COMPOSITE ASSEMBLY



PLAN VIEW



SECTION A-A

## GENERAL NOTES:

PRODUCT NUMBER: COM260318A01

## DESIGN FEATURES:

- LOAD RATING - H25 (50,000LB)
- ESTIMATED WEIGHT - 70LB
- REQUIRED ACCESSORY:
  - 13/16" PENTA-HEAD WRENCH
  - NOT INCLUDED

MAJOR COMPONENTS: COM260210  
COM260318

NOT TO SCALE



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Phone: (912) 261-7110  
Fax: (912) 261-7178

## MANHOLE FRAME & COVER - 24" OPENING

JWSC 3-2F

DESIGNED: BGJWSC

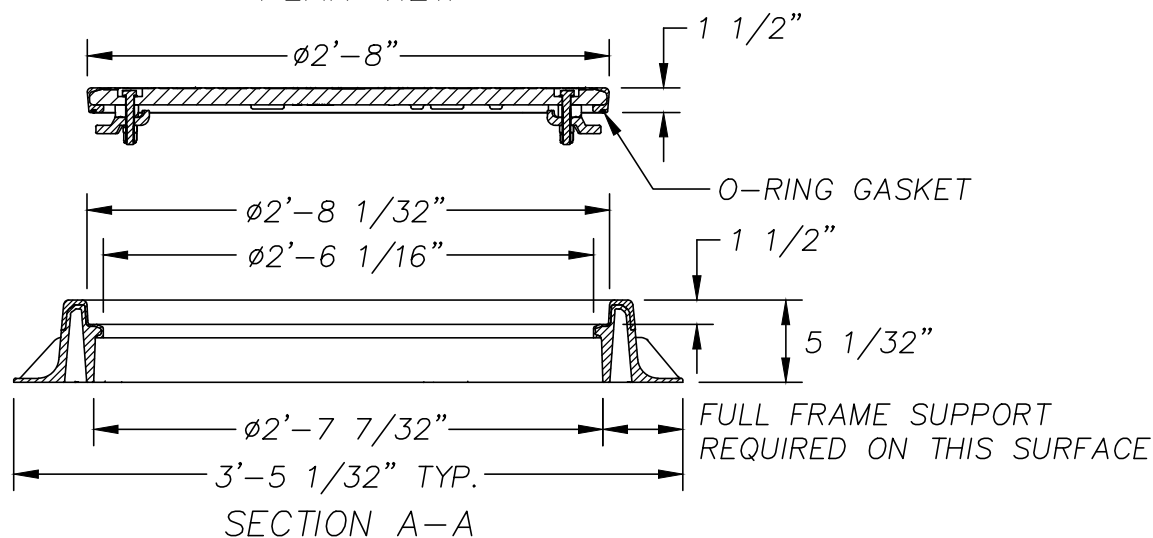
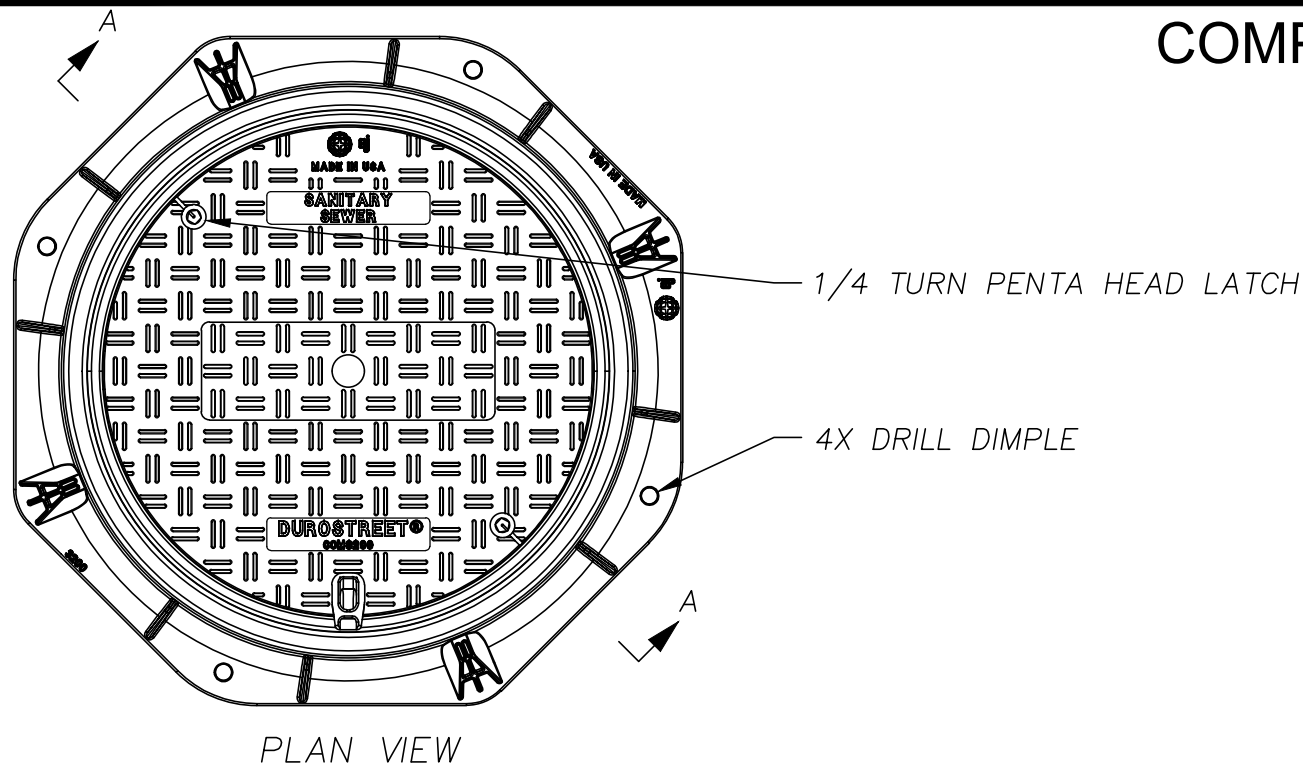
DRAWN: HPATEL

DATE: 05/26/2022

SCALE: NTS

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# COMPOSITE ASSEMBLY



## GENERAL NOTES:

PRODUCT NUMBER: COM320155A01

## DESIGN FEATURES:

- LOAD RATING - H25 (50,000LB)
- ESTIMATED WEIGHT - 109LB
- REQUIRED ACCESSORY:
  - $\frac{13}{16}"$  PENTA-HEAD WRENCH
  - NOT INCLUDED

MAJOR COMPONENTS: COM320010  
COM320155

NOT TO SCALE



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**MANHOLE FRAME &  
COVER - 30" OPENING**

**JWSC 3-2G**

DESIGNED: BGJWSC

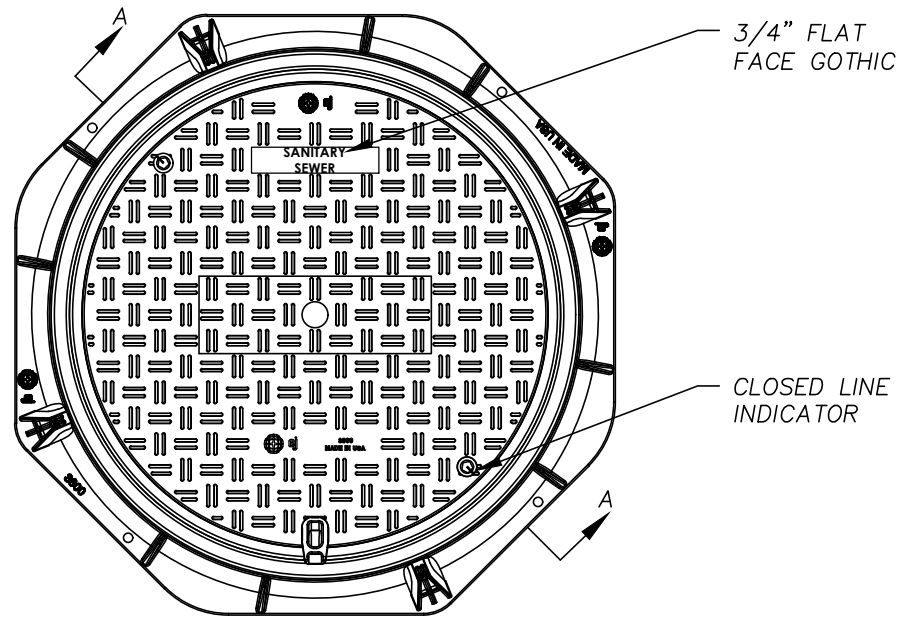
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DATE: 05/26/2022

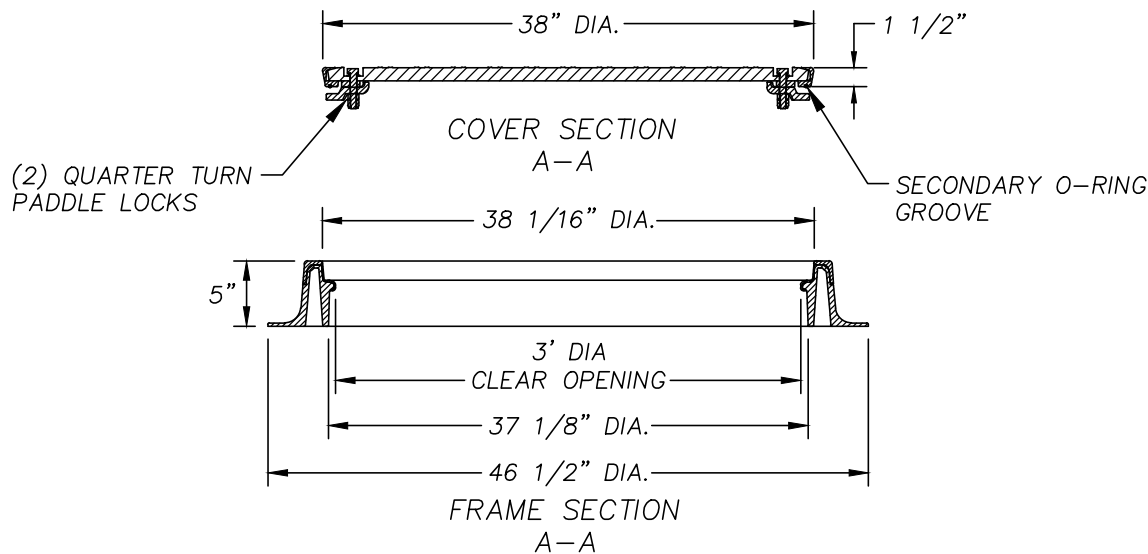
SCALE: NTS

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# COMPOSITE ASSEMBLY



PLAN VIEW



## GENERAL NOTES:

PRODUCT NUMBER: COM380224A01

## DESIGN FEATURES:

- LOAD RATING - H20 (PER AASHTO M306)
- ESTIMATED WEIGHT - COVER 70LB - FRAME 45LB

NOT TO SCALE



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## MANHOLE FRAME & COVER - 36" OPENING

JWSC 3-2H

DESIGNED: BGJWSC

DRAWN: HPATEL

DATE: 05/26/2022

SCALE: NTS

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**GENERAL NOTES:**

CONCRETE: 4000 PSI TYPE II CEMENT

WALL REINFORCING: ASTM C-478

BOTTOM REINFORCING: #4@12" O.C.E.W.

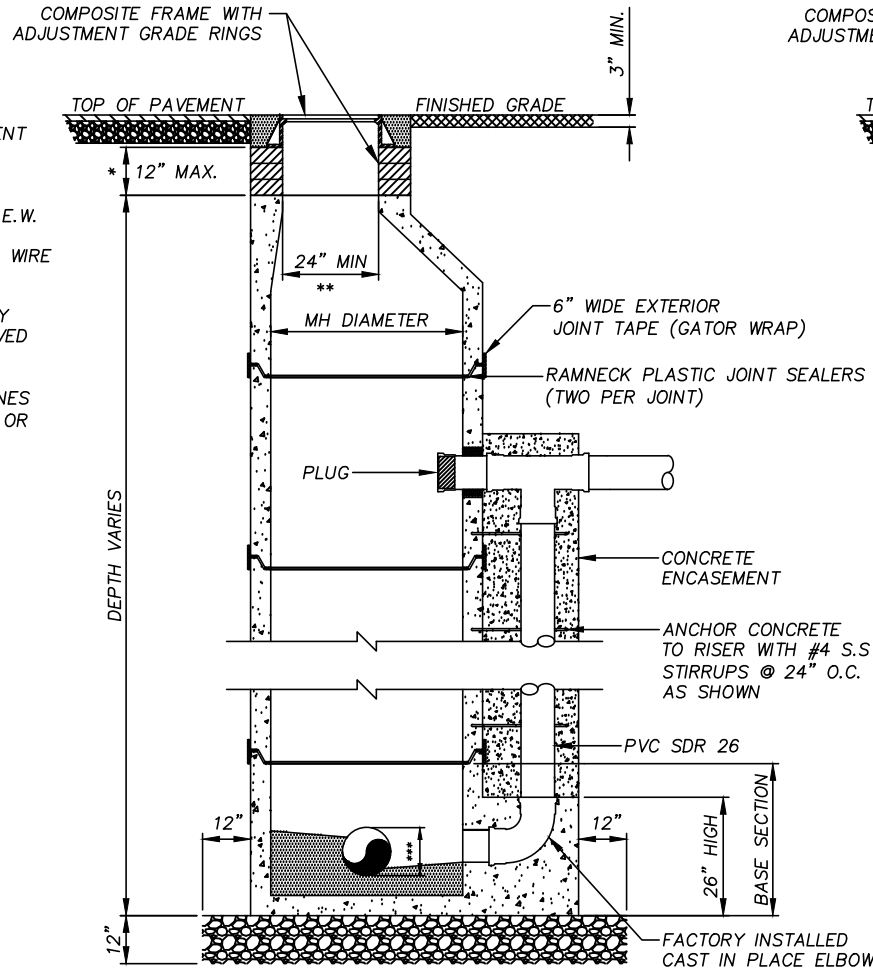
GRADE 40 OR EQUIVALENT WELDED WIRE MESH

\* VARIABLE GRADE ADJUSTMENT BY LADTECH GRADE RINGS OR APPROVED EQUAL AS REQUIRED

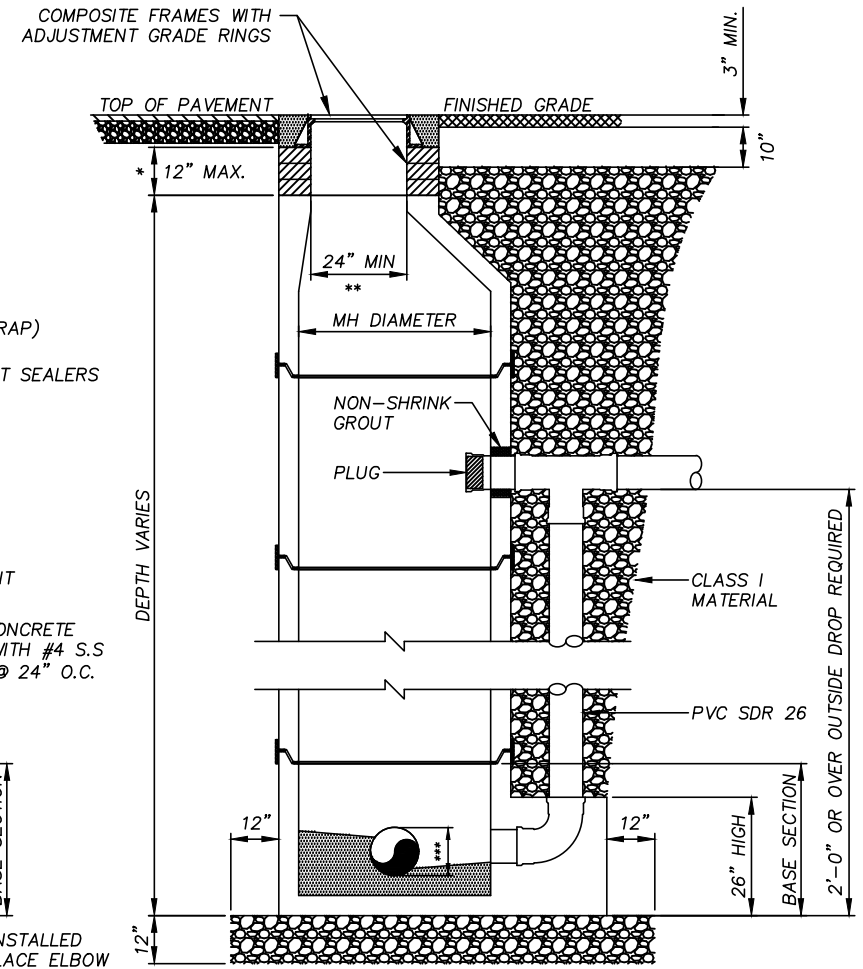
\*\* INCREASE TO 32" ON TRUNK LINES WHERE SEWER IS 18" IN DIAMETER OR GREATER.

\*\*\* 0.8 X PIPE O.D.

| PIPE SIZE    | MANHOLE DIAMETER |
|--------------|------------------|
| 6" THRU 15"  | 4'-0"            |
| 18" THRU 30" | 5'-0"            |
| 36" THRU 48" | 6'-0"            |
| > 48"        | 8'-0"            |



OUTSIDE DROPS GREATER THAN 10 FEET



OUTSIDE DROPS 10 FEET OR LESS

NOT TO SCALE



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**OUTSIDE DROP  
MANHOLE SECTION**

**JWSC 3-3A**

DESIGNED: BGJWSC

DRAWN: HPATEL

DATE: 05/26/2022

SCALE: NTS

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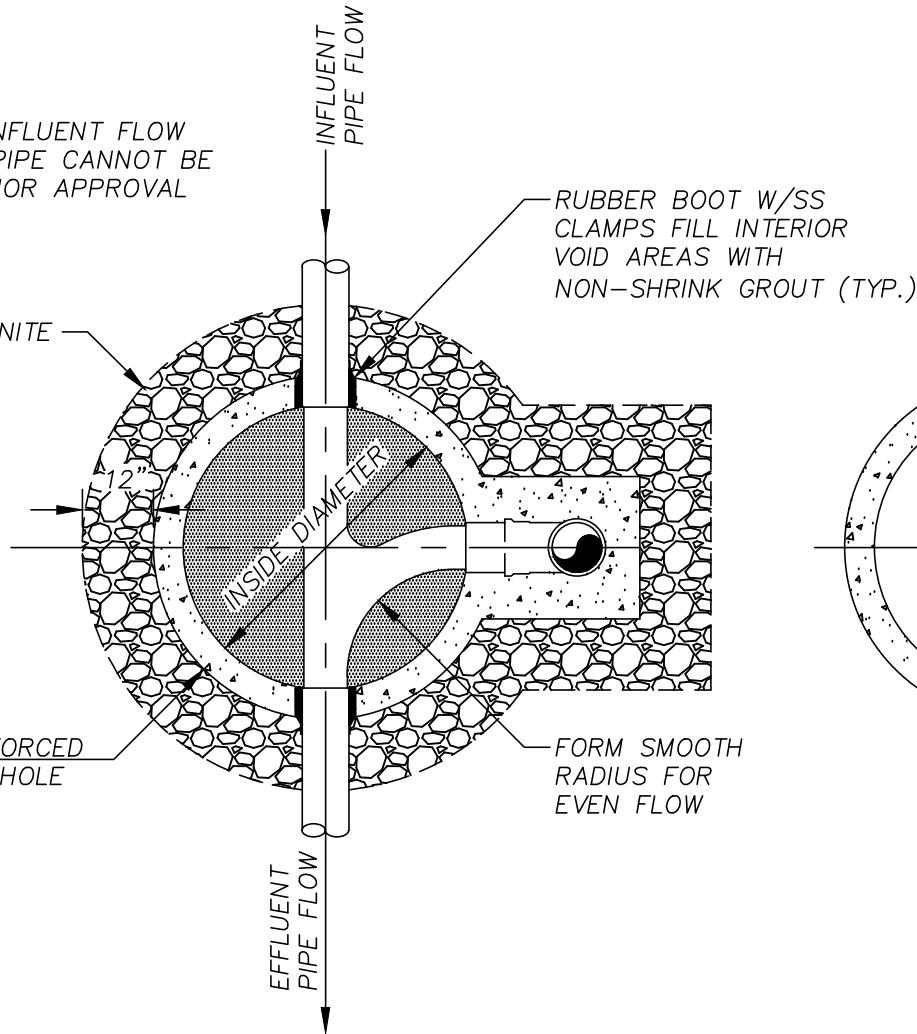
NOTE:

THE ANGLE BETWEEN ALL INFLUENT FLOW CHANNELS AND EFFLUENT PIPE CANNOT BE LESS THAN 90° UNLESS PRIOR APPROVAL HAS BEEN OBTAINED FROM THE JWSC

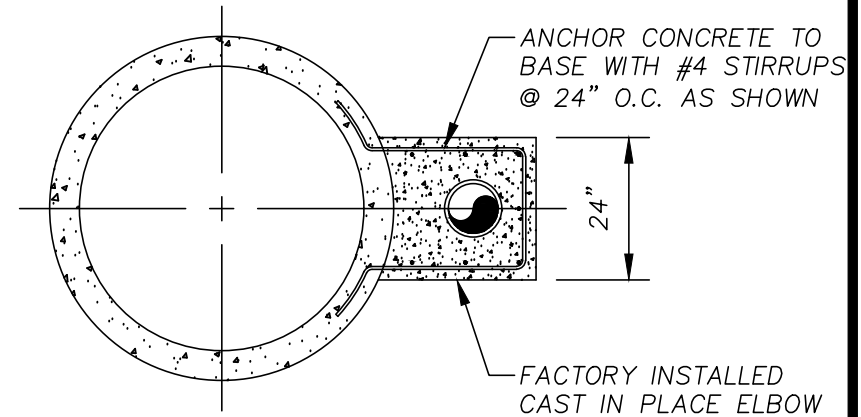
LEVELING COURSE #57 GRANITE STONE MIN. 12" THICKNESS

| PIPE SIZE    | MANHOLE DIAMETER |
|--------------|------------------|
| 6" THRU 15"  | 4'-0"            |
| 18" THRU 30" | 5'-0"            |
| 36" THRU 48" | 6'-0"            |
| > 48"        | 8'-0"            |

PRECAST REINFORCED CONCRETE MANHOLE



OUTSIDE DROP MANHOLE BASE PLAN



OUTSIDE DROP MANHOLE WALL PLAN

NOT TO SCALE



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## OUTSIDE DROP MANHOLE PLAN

JWSC 3-3B

DESIGNED: BGJWSC

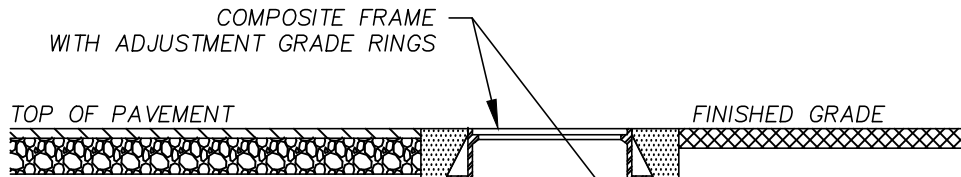
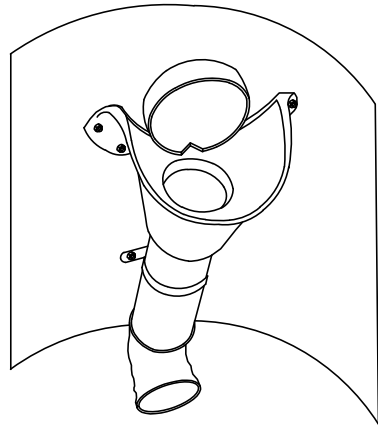
DRAWN: HPATEL

DATE: 05/26/2022

SCALE: NTS

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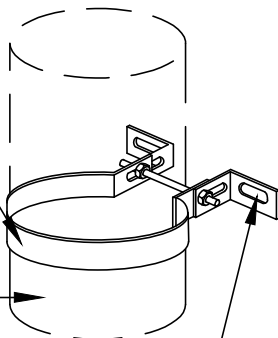
**NOTE:**

THE ANGLE BETWEEN ALL INFLUENT FLOW CHANNELS AND EFFLUENT PIPE CANNOT BE LESS THAN 90° UNLESS PRIOR APPROVAL HAS BEEN OBTAINED FROM THE JWSC

NON-CORROSIVE  
11 GAUGE 316 SSTL  
STRAP 1 1/2" MIN.  
WIDTH

PVC DROP  
PIPE

USE 3/8" RED HEAD  
ANCHOR TO ATTACH  
TO MANHOLE WALL



RELINER INSIDE DROP BOWL  
SECURED WITH SSTL FASTENERS

PIPE COUPLING

RELINER OR APPROVED EQUAL  
SSTL PIPE BRACKET SECURED  
TO STRUCTURE WITH (2) SSTL  
BOLTS. (4' INTERVALS, 2 MIN.  
BRACKETS REQ'D.)

NON-CORROSIVE 11 GAUGE  
316 SSTL STRAP 1 1/2" MIN.  
WIDTH (2'-0" O.C.)

MINIMUM 12" OF NO.  
57 GRANITE STONE  
WRAPPED IN GEOTEXTILE FABRIC

12" MIN.

PVC SDR26  
DROP PIPE

1. CORE DRILL EXISTING MH.
2. INSTALL RUBBER BOOT WITH STAINLESS STEEL STRAPS.
3. FILL VOID AREAS WITH NON-SHRINK GROUT.

2'-0" OR OVER  
INSIDE DROP  
REQUIRED

NOT TO SCALE



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**INSIDE DROP MANHOLE  
SECTION - EXISTING MH  
STRUCTURE**

**JWSC 3-4A**

DESIGNED: BGJWSC

DRAWN: HPATEL

DATE: 05/26/2022

SCALE: NTS

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NOTE:  
THE ANGLE BETWEEN ALL INFLUENT FLOW  
CHANNELS AND EFFLUENT PIPE CANNOT BE  
LESS THAN 90° UNLESS PRIOR APPROVAL  
HAS BEEN OBTAINED FROM  
THE JWSC

LEVELING COURSE #57 GRANITE  
STONE MIN. 12" THICKNESS

PRECAST REINFORCED  
CONCRETE MANHOLE

12"

INSIDE DIAMETER

EFFLUENT  
PIPE FLOW

INFLUENT  
PIPE FLOW

RUBBER BOOT W/SS CLAMPS  
FILL INTERIOR VOID AREAS  
WITH NON-SHRINK GROUT (TYP)

CUT OFF PIPE  
AT WALL

INFLUENT  
PIPE FLOW

RELINER INSIDE DROP BOWL  
SECURED WITH SSTL  
FASTENERS

FORM SMOOTH RADIUS  
FOR EVEN FLOW

SEE ALSO  
DETAIL 3-4A

NOT TO SCALE

| PIPE<br>SIZE | MANHOLE<br>DIAMETER |
|--------------|---------------------|
| 6" THRU 15"  | 4'-0"               |
| 18" THRU 30" | 5'-0"               |
| 36" THRU 48" | 6'-0"               |
| > 48"        | 8'-0"               |



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Fax: (912) 261-7178

## INSIDE DROP MANHOLE PLAN

**JWSC 3-4B**

DESIGNED: BGJWSC

DRAWN: HPATEL

DATE: 05/26/2022

SCALE: NTS

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## GENERAL NOTES:

1. THE MINIMUM SIZE FOR HOUSE SERVICE LATERALS SHALL BE 4". WHERE DOUBLE SERVICES ARE INSTALLED, A 6" LATERAL SHALL BE USED FROM THE MAIN TO THE PROPERTY LINE. AS DETERMINED BY THE JWSC COMMERCIAL DEVELOPMENTS, SHALL BE REQUIRED TO INSTALL A 6" LATERAL FROM THE MAIN TO THE PROPERTY LINE, RIGHT-OF-WAY OR EASEMENT LINE.
2. THE MAXIMUM LENGTH OF A SERVICE LATERAL SHALL NOT EXCEED 60' AS MEASURED FROM THE SEWER MAIN (OR MANHOLE) TO THE PROPERTY LINE.
3. THE SEWER SERVICE LATERAL SHALL BE CONSTRUCTED AT A DEPTH TO ALLOW A GRAVITY CONNECTION BY THE CUSTOMER WHERE POSSIBLE. MIN. AND MAX. BURY DEPTHS SHALL COMPLY WITH JWSC SPECIFICATIONS.
4. ALL SERVICES SHALL BE RUN PERPENDICULAR TO THE RIGHT-OF-WAY LINE.
5. SERVICE CONNECTIONS ARE NOT PERMITTED ON SEWER MAINS OR TRUNK LINES LARGER THAN 15-INCHES IN DIAMETER.
6. ALL GRAVITY MAINS AND SEWER SERVICE LATERALS (INCLUDING THE TEE-WYE FITTING) WITH A DEPTH OF CUT SHALL BE NO GREATER GREATER THAN 12 FEET.
7. CLEANOUT SHALL BE INSTALLED AT RIGHT-OF-WAY OR EASEMENT LINE UPON CONNECTION OF THE CUSTOMER TO PUBLIC SEWER. SEE CLEANOUT DETAIL FOR ADDITIONAL INFORMATION.
8. THE SERVICE LINE DEPTH AT THE RIGHT-OF-WAY OR EASEMENT SHALL HAVE A MINIMUM OF 3'-0" COVER.
9. IN LIEU OF SEWER SAFE DIP (PROTECTO 401 COATED OR APPROVED EQUAL) DR18 C900 PVC PIPE MAY BE INSTALLED. FITTINGS SHALL BE DR 18 AS MANUFACTURED BY IPEX OR APPROVED EQUAL. PIPE SHALL BE GREEN IN COLOR.

NOT TO SCALE



### BRUNSWICK-GLYNN JOINT WATER & SEWER COMMISSION

1703 Gloucester Street  
Brunswick, Georgia 31520

Website: [www.bgjwsc.org](http://www.bgjwsc.org)

Phone: (912) 261-7110  
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## GENERAL NOTES SEWER SERVICES

JWSC 3-5

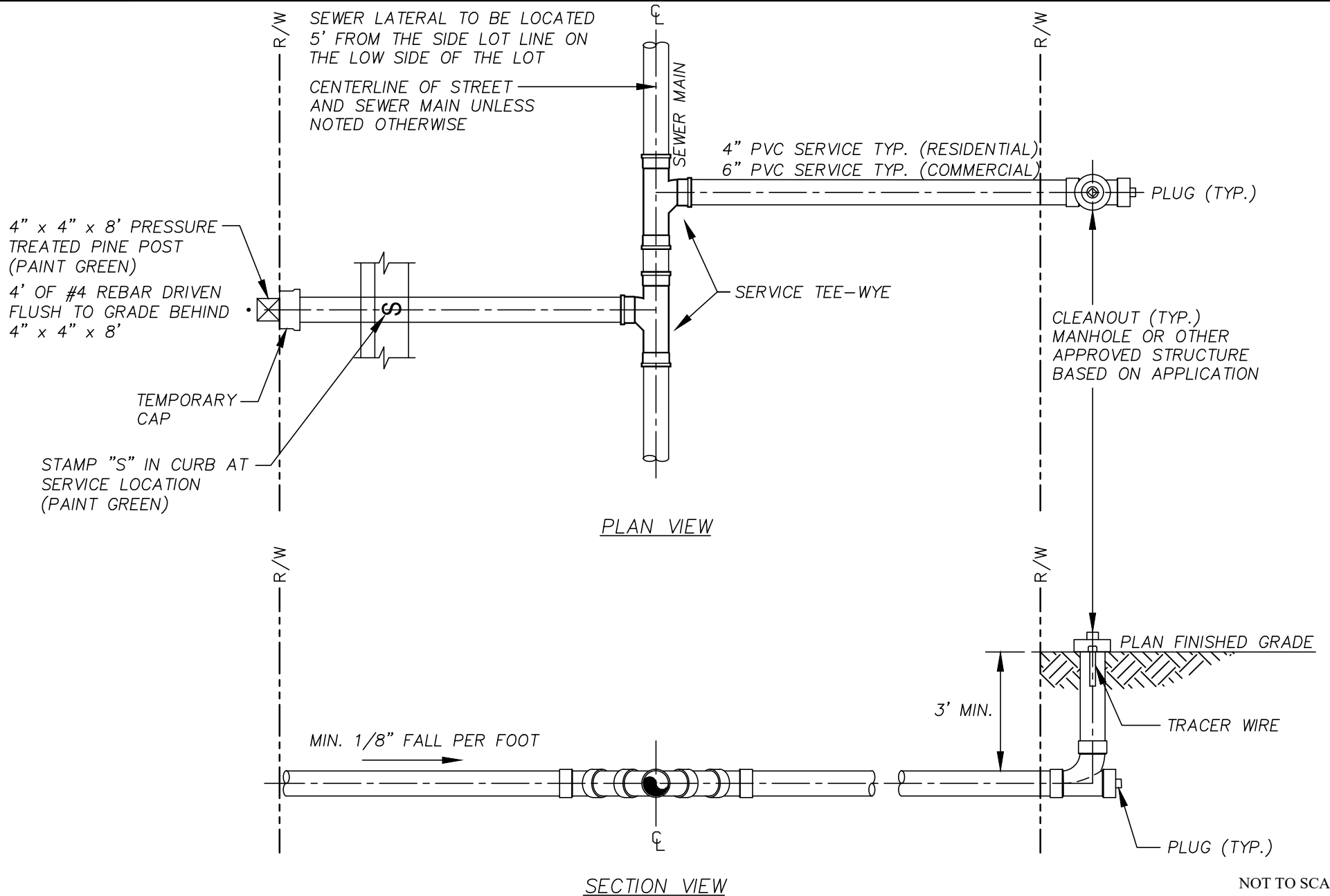
DESIGNED: BGJWSC

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## SINGLE SEWER SERVICE PLAN VIEW

JWSC 3-6

DESIGNED: BGJWSC

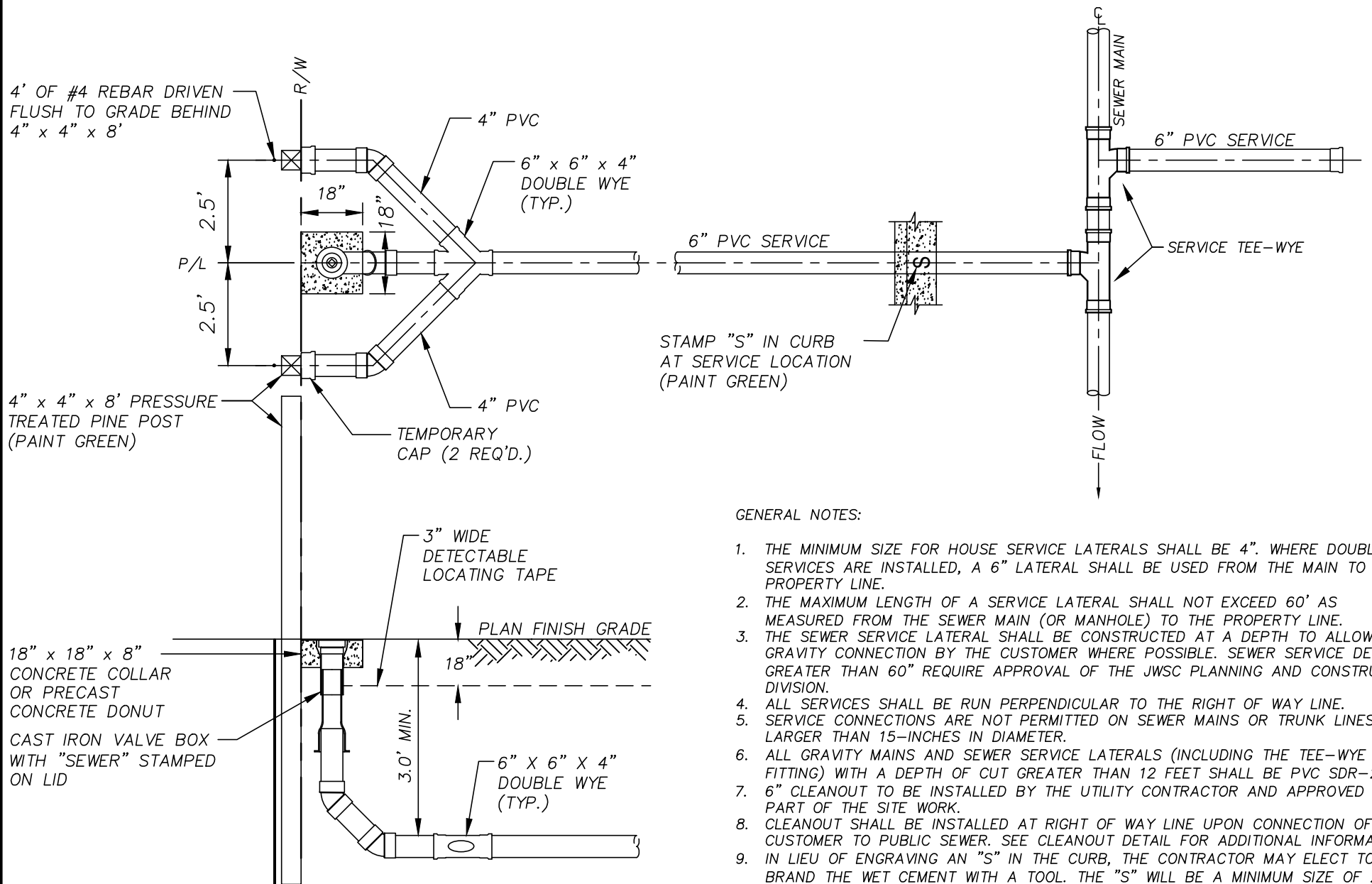
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#### GENERAL NOTES:

1. THE MINIMUM SIZE FOR HOUSE SERVICE LATERALS SHALL BE 4". WHERE DOUBLE SERVICES ARE INSTALLED, A 6" LATERAL SHALL BE USED FROM THE MAIN TO THE PROPERTY LINE.
2. THE MAXIMUM LENGTH OF A SERVICE LATERAL SHALL NOT EXCEED 60' AS MEASURED FROM THE SEWER MAIN (OR MANHOLE) TO THE PROPERTY LINE.
3. THE SEWER SERVICE LATERAL SHALL BE CONSTRUCTED AT A DEPTH TO ALLOW A GRAVITY CONNECTION BY THE CUSTOMER WHERE POSSIBLE. SEWER SERVICE DEPTHS GREATER THAN 60" REQUIRE APPROVAL OF THE JWSC PLANNING AND CONSTRUCTION DIVISION.
4. ALL SERVICES SHALL BE RUN PERPENDICULAR TO THE RIGHT OF WAY LINE.
5. SERVICE CONNECTIONS ARE NOT PERMITTED ON SEWER MAINS OR TRUNK LINES LARGER THAN 15-INCHES IN DIAMETER.
6. ALL GRAVITY MAINS AND SEWER SERVICE LATERALS (INCLUDING THE TEE-WYE FITTING) WITH A DEPTH OF CUT GREATER THAN 12 FEET SHALL BE PVC SDR-26.
7. 6" CLEANOUT TO BE INSTALLED BY THE UTILITY CONTRACTOR AND APPROVED AS PART OF THE SITE WORK.
8. CLEANOUT SHALL BE INSTALLED AT RIGHT OF WAY LINE UPON CONNECTION OF THE CUSTOMER TO PUBLIC SEWER. SEE CLEANOUT DETAIL FOR ADDITIONAL INFORMATION.
9. IN LIEU OF ENGRAVING AN "S" IN THE CURB, THE CONTRACTOR MAY ELECT TO BRAND THE WET CEMENT WITH A TOOL. THE "S" WILL BE A MINIMUM SIZE OF 2"x2".

NOT TO SCALE



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## DOUBLE WYE SEWER SERVICE PLAN VIEW

JWSC 3-7B

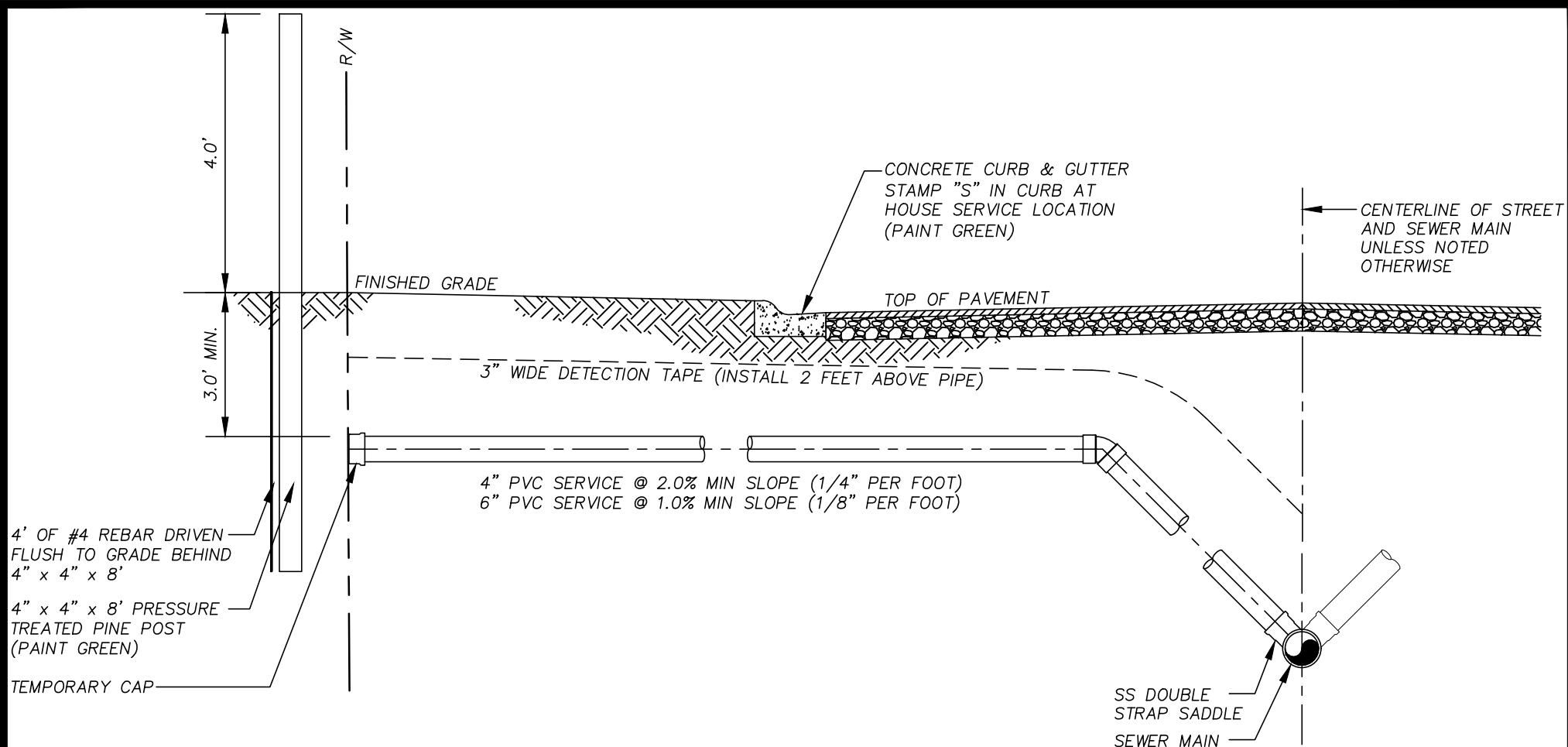
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DRAWN: HPATEL

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GENERAL NOTES:

1. MINIMUM BURY AT THE R/W IS 3'-0". INSTALL DR18 C900 WHERE MINIMUM BURY DEPTH IS NOT ACHIEVABLE AS DIRECTED BY THE JWSC. PIPE TO BE GREEN IN COLOR.
2. MINIMUM SERVICE FOR COMMERCIAL SITES IS 6" OR AS DIRECTED BY THE JWSC.
3. WHERE C900 IS REQUIRED, ALL FITTINGS SHALL BE C907 DR18 FITTINGS.
4. THE SEWER SERVICE LATERAL SHALL BE CONSTRUCTED AT A DEPTH TO ALLOW A GRAVITY CONNECTION BY THE CUSTOMER WHERE POSSIBLE. SEWER SERVICE DEPTHS GREATER THAN 60" REQUIRE APPROVAL OF THE JWSC PLANNING AND CONSTRUCTION DIVISION.
5. FOR NEW TAP TO EXISTING 15" AND SMALLER GRAVITY MAINS, INSTALL A SSTL DOUBLE STRAPPED SADDLE ON THE MAIN.

NOT TO SCALE



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## SEWER SERVICE SECTIONAL VIEW

JWSC 3-8

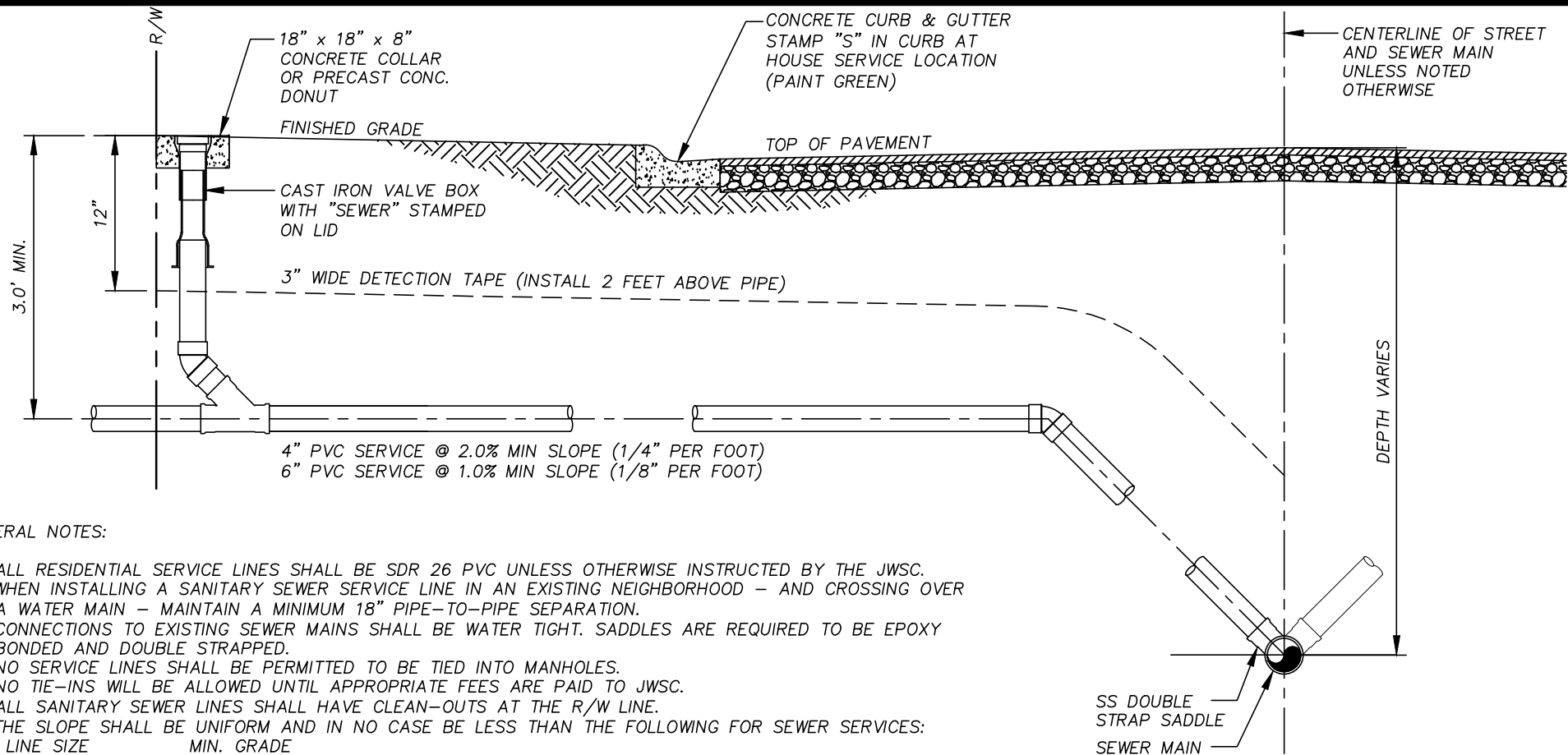
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**GENERAL NOTES:**

- ALL RESIDENTIAL SERVICE LINES SHALL BE SDR 26 PVC UNLESS OTHERWISE INSTRUCTED BY THE JWSC.
- WHEN INSTALLING A SANITARY SEWER SERVICE LINE IN AN EXISTING NEIGHBORHOOD – AND CROSSING OVER A WATER MAIN – MAINTAIN A MINIMUM 18" PIPE-TO-PIPE SEPARATION.
- CONNECTIONS TO EXISTING SEWER MAINS SHALL BE WATER TIGHT. SADDLES ARE REQUIRED TO BE EPOXY BONDED AND DOUBLE STRAPPED.
- NO SERVICE LINES SHALL BE PERMITTED TO BE TIED INTO MANHOLES.
- NO TIE-INS WILL BE ALLOWED UNTIL APPROPRIATE FEES ARE PAID TO JWSC.
- ALL SANITARY SEWER LINES SHALL HAVE CLEAN-OUTS AT THE R/W LINE.
- THE SLOPE SHALL BE UNIFORM AND IN NO CASE BE LESS THAN THE FOLLOWING FOR SEWER SERVICES:  

|           |                       |
|-----------|-----------------------|
| LINE SIZE | MIN. GRADE            |
| 4"        | 2.0% OR 1/4" PER FOOT |
| 6"        | 1.0% OR 1/8" PER FOOT |
- DESIGN OF DEEP SEWER (>9FT) CONNECTIONS SHALL BE APPROVED BY THE JWSC.
- SADDLE MUST BE P.V.C, O.D. SPECIFIC AND HAVE EPOXY SEAL AROUND TAP. WYE FITTING SHALL HAVE POLLY TAPE AROUND STAINLESS STEEL STRAPS.
- A HOLE SAW SHALL BE USED TO MAKE TAPS ON EXISTING SEWER MAINS; THE COUPON FROM THE TAP MUST BE AVAILABLE TO THE JWSC INSPECTOR.
- NEW TAPS ON LINED SEWER MAINS – THE OUTER MATERIAL MUST BE COMPLETELY REMOVED AND SADDLE SHALL BE APPLIED DIRECTLY TO THE SEWER LINING.
- 90° FITTINGS ARE PROHIBITED.
- SERVICE LINE TAPS INTO HIGH FLOW TRANSMISSION MAINS SHALL BE MADE VERTICALLY. DETERMINATION TO BE MADE BY THE JWSC.
- BEDDING FOR SANITARY SEWER SERVICE LINES SHALL BE NO. 57 STONE AND SHALL BE INSTALLED, IN ALL CASES, FROM SIX (6) INCHES BELOW THE SUB-GRADE OF THE PIPE TO OVER THE TOP OF THE PIPE IN THE AREA WHERE THE PIPE IS DISTURBED, SEE JWSC TYPICAL DETAILS 3-10A AND 3-11A.
- WHERE C900 IS REQUIRED, ALL FITTINGS SHALL BE C907 DR18 FITTINGS.

NOT TO SCALE



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**SERVICE TAP  
CONNECTION**

**JWSC 3-8A**

DESIGNED: BGJWSC

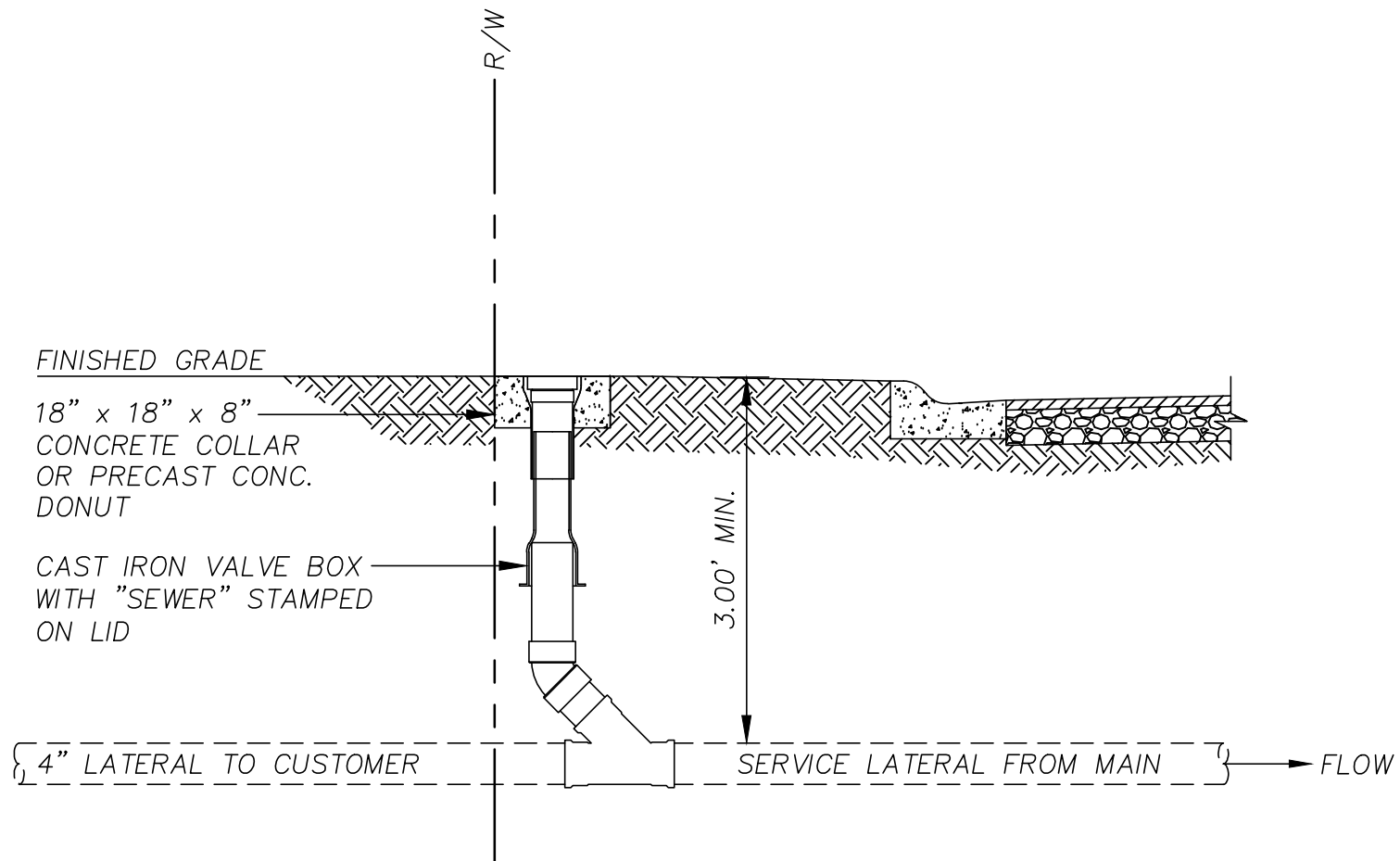
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GENERAL NOTES:

1. BOX SHALL BE STAR PIPE PRODUCTS VB562S OR APPROVED EQUAL.
2. THE SEWER SERVICE LATERAL SHALL BE CONSTRUCTED AT A DEPTH TO ALLOW A GRAVITY CONNECTION BY THE CUSTOMER WHERE POSSIBLE. SEWER SERVICE DEPTHS GREATER THAN 60" REQUIRE APPROVAL OF THE JWSC PLANNING AND CONSTRUCTION DIVISION.

NOT TO SCALE



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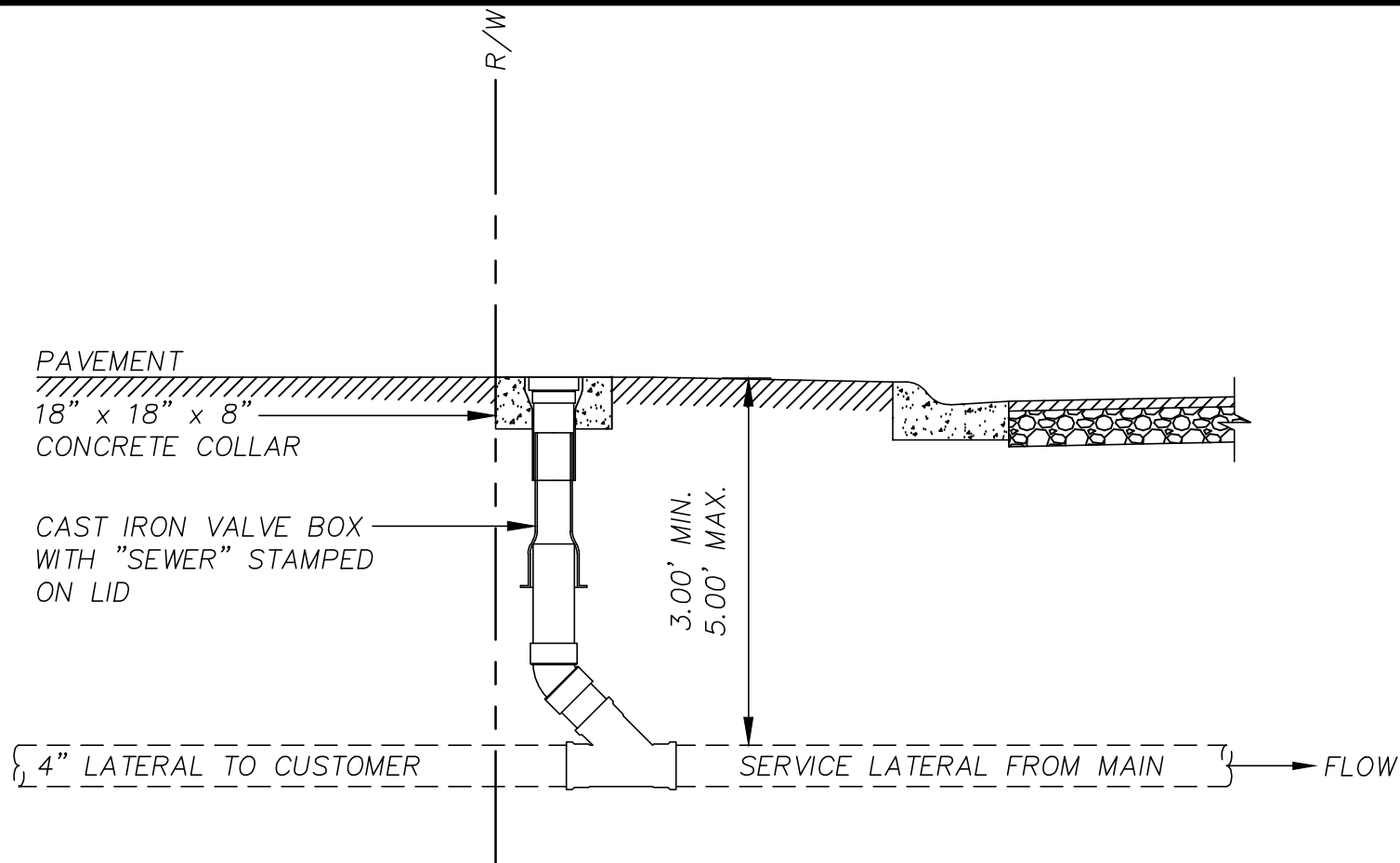
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Fax: (912) 261-7178  
Website: [www.bgjwsc.org](http://www.bgjwsc.org)

**SEWER SERVICE  
CLEANOUT**

**JWSC 3-9**

DESIGNED: BGJWSC    DRAWN: HPATEL  
DATE: 05/26/2022    SCALE: NTS

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GENERAL NOTES:

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2. THE SEWER SERVICE LATERAL SHALL BE CONSTRUCTED AT A DEPTH TO ALLOW A GRAVITY CONNECTION BY THE CUSTOMER WHERE POSSIBLE. SEWER SERVICE DEPTHS GREATER THAN 60" REQUIRE APPROVAL OF THE JWSC PLANNING AND CONSTRUCTION DIVISION.

NOT TO SCALE



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**SEWER SERVICE  
CLEANOUT (UNDER  
PAVEMENT)**

**JWSC 3-9A**

DESIGNED: BGJWSC

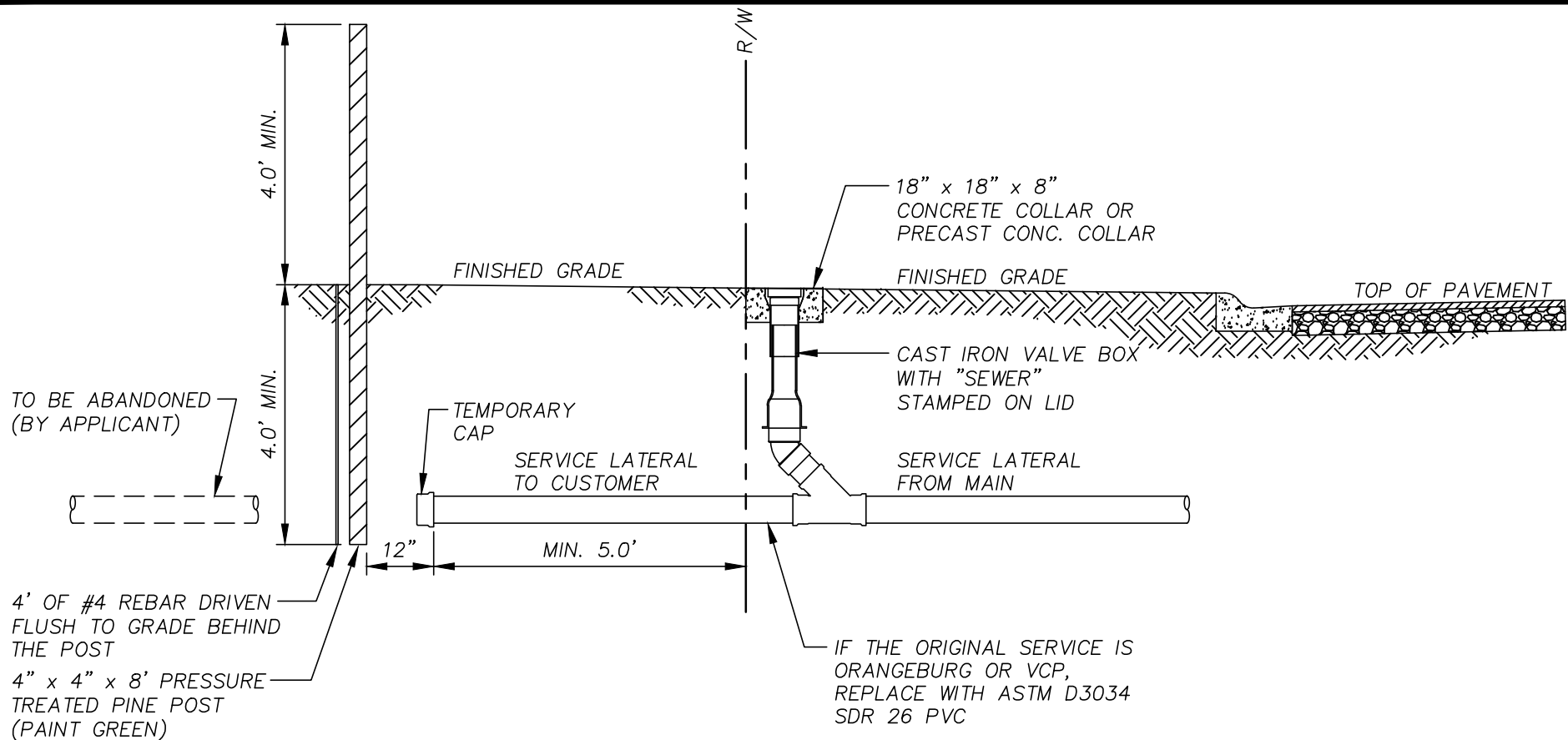
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GENERAL NOTES:

1. MINIMUM BURY AT THE R/W IS 3'-0". INSTALL DR18 C900 WHERE MINIMUM BURY DEPTH IS NOT ACHIEVABLE AS DIRECTED BY THE JWSC. PIPE TO BE GREEN IN COLOR.
2. MINIMUM SERVICE FOR COMMERCIAL SITES IS 6" OR AS DIRECTED BY THE JWSC.
3. WHERE C900 IS REQUIRED, ALL FITTINGS SHALL BE C907 DR18 FITTINGS.
4. THE SEWER SERVICE LATERAL SHALL BE CONSTRUCTED AT A DEPTH TO ALLOW A GRAVITY CONNECTION BY THE CUSTOMER WHERE POSSIBLE. SEWER SERVICE DEPTHS GREATER THAN 60" REQUIRE APPROVAL OF THE JWSC PLANNING AND CONSTRUCTION DIVISION.
5. FOR NEW TAP TO EXISTING 15" AND SMALLER GRAVITY MAINS, INSTALL A SSTL DOUBLE STRAPPED SADDLE ON THE MAIN.

NOT TO SCALE



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**SEWER SERVICE  
ABANDONMENT**

**JWSC 3-9B**

DESIGNED: BGJWSC

DRAWN: HPATEL

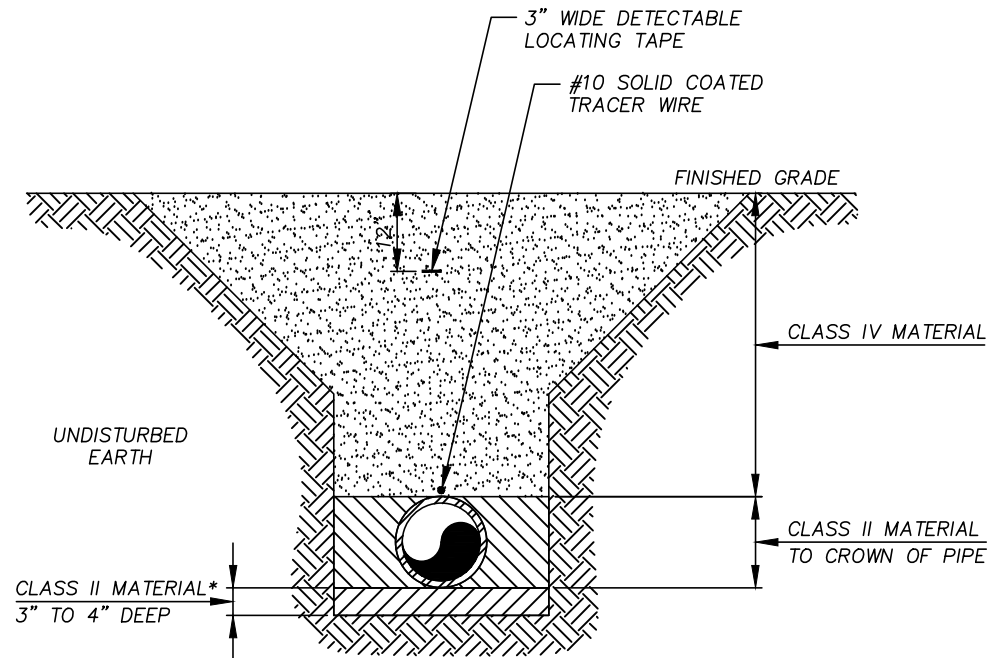
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# PIPE BEDDING MATERIALS

| CLASS | TYPE | DESCRIPTION   |
|-------|------|---|
| I     |      | MANUFACTURED ANGULAR, GRANULAR MATERIAL, 1/4" TO 1 1/2" SIZE, INCLUDING MATERIALS HAVING REGIONAL SIGNIFICANCE SUCH AS CRUSHED STONE OR ROCK                                |
| II    | GW   | WELL-GRADED GRAVELS AND GRAVEL-SAND MIXTURES, LITTLE OR NO FINES, 50% OR MORE OF COARSE FRACTION RETAINED ON NO. 4 SIEVE. MORE THAN 95% RETAINED ON NO. 200 SIEVE. CLEAN.   |
|       | GP   | POORLY GRADED GRAVELS AND GRAVEL-SAND MIXTURES, LITTLE OR NO FINES, 50% OR MORE OF COARSE FRACTION RETAINED ON NO. 4 SIEVE. MORE THAN 95% RETAINED ON NO. 200 SIEVE. CLEAN. |
|       | SW   | WELL-GRADED SANDS AND GRAVELLY SANDS, LITTLE OR NO FINES. MORE THAN 50% OF COARSE FRACTION PASSES NO. 4 SIEVE. MORE THAN 95% RETAINED ON NO. 200 SIEVE. CLEAN.              |
|       | SP   | POORLY GRADED SANDS AND GRAVELLY SANDS, LITTLE OR NO FINES. MORE THAN 50% OF COARSE FRACTION PASSES NO. 4 SIEVE. MORE THAN 95% RETAINED ON NO. 200 SIEVE. CLEAN.            |
| III   | GM   | SILTY GRAVELS, GRAVEL-SAND-SILT MIXTURES, 50% OR MORE OF COARSE FRACTION RETAINED ON NO. 4 SIEVE. MORE THAN 50% RETAINED ON NO. 200 SIEVE.                                  |
|       | GC   | CLAYEY GRAVELS, GRAVEL-SAND-CLAY MIXTURES, 50% OR MORE OF COARSE FRACTION RETAINED ON NO. 4 SIEVE. MORE THAN 50% RETAINED ON NO. 200 SIEVE.                                 |
|       | SM   | SILTY SANDS, SAND-SILT MIXTURES, MORE THAN 50% OF COARSE FRACTION PASSES ON NO. 4 SIEVE. MORE THAN 50% RETAINED ON NO. 200 SIEVE.   |
|       | SC   | CLAYEY SANDS, SAND-CLAY MIXTURES, MORE THAN 50% OF COARSE FRACTION PASSES NO. 4 SIEVE. MORE THAN 50% RETAINED ON NO. 200 SIEVE.   |
| IV    | ML   | INORGANIC SILTS, VERY FINE SANDS, ROCK FLOUR, SILTY OR CLAYEY FINE SANDS. LIQUID LIMIT 50% OR LESS, 50% OR MORE PASSES NO. 200 SIEVE  |
|       | CL   | INORGANIC CLAYS OF LOW TO MEDIUM PLASTICITY, GRAVELLY CLAYS, SANDY CLAYS, SILTY CLAYS, LEAN CLAYS. LIQUID LIMIT 50% OR LESS, 50% OR MORE PASSES NO. 200 SIEVE               |
|       | MH   | INORGANIC SILTS, MICACEOUS OR DIATOMACEOUS FINE SANDS OR SILTS, ELASTIC SILTS. LIQUID LIMIT GREATER THAN 50%, 50% OR MORE PASSES NO. 200 SIEVE.                             |
|       | CH   | INORGANIC CLAYS OF HIGH PLASTICITY, FAT CLAYS. LIQUID LIMIT GREATER THAN 50%, 50% OR MORE PASSES NO. 200 SIEVE.   |



\* CLASS I MATERIALS SHALL BE USED TO PROVIDE AN UNYIELDING FOUNDATION WHERE THE NATURAL TRENCH FOUNDATION IS WEAK.

NOT TO SCALE



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Phone: (912) 261-7110  
Fax: (912) 261-7178

## TRENCH DETAIL (NON-TRAFFIC AREAS)

JWSC 3-10

DESIGNED: BGJWSC

DRAWN: HPATEL

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ROAD REPAIR REQUIREMENTS:

1. JWSC MUST REVIEW ROAD CUT AND APPROVE FINAL DIMENSIONS OF AREA TO BE PAVED PRIOR TO FINAL PAVING. ALL ROAD CUTS MUST BE NEATLY SQUARE CUT AND PERPENDICULAR TO THE LINES AND GENERAL DIRECTION OF THE ROAD WAY AND A MINIMUM OF 12" BEYOND FINAL DISTURBED AREA. ENTIRE WIDTH OF LANE IS TO BE REPAVED FOR ROAD CUTS THAT ARE UP TO OR EXCEED HALF THE DISTANCE OF THE LANE. ENTIRE WIDTH OF ROAD IS TO BE REPAVED FOR ROAD CUTS THAT ARE UP TO OR EXCEED HALF THE DISTANCE OF THE ROAD. ROAD MUST BE REPAIRED AS OUTLINED BELOW PER THE STANDARD JWSC ROAD REPAIR DETAIL WITHIN 30 DAYS AFTER ROAD IS CUT INCLUDING ANY APPLICABLE ROAD STRIPING. COMPACTION TEST IS REQUIRED TO ENSURE 100% COMPACTION OF BACKFILL AND BASE MATERIAL. COMPACTION TEST RESULTS MUST BE FORWARDED TO JWSC REFLECTING TWO RESULTS OF THE BACKFILL AND BASE MATERIAL.

2. CUTS EXCEEDING 150 FEET IN LENGTH, THE BASE MATERIAL SHALL BE BROUGHT FLUSH TO THE BOTTOM OF THE EXISTING PAVEMENT, EXISTING PAVEMENT SHALL BE SAW CUT TO A STRAIGHT EDGE AND THE ENTIRE WIDTH OF THE ROADWAY RESURFACED WITH A MINIMUM OF 1" OF TYPE "E" ASPHALT TOPPING.

3. DEPENDING ON THE EXISTING ROAD CONDITION, TIE IN POINTS MAY REQUIRE ADDITIONAL MILLING AND BLENDING AS DETERMINED BY JWSC.

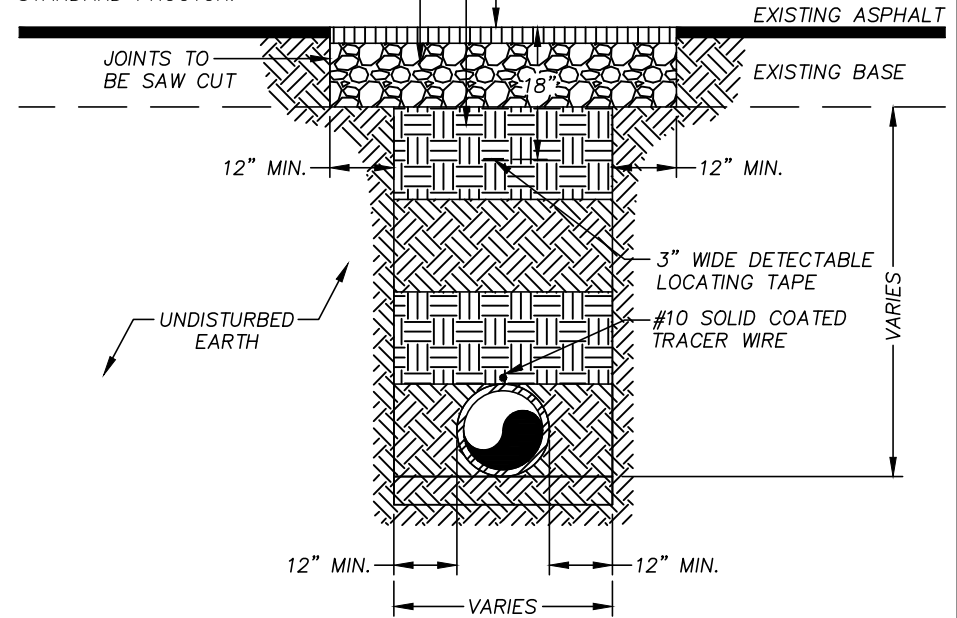
4. DEPENDING ON THE EXISTING ROAD CONDITION AND LOCATION OF THE ROAD CUT, FLOWABLE FILL MAY BE REQUIRED AS BACKFILL MATERIAL. TO BE DETERMINED BY JWSC.

SURFACE COURSE: ASPHALTIC CONCRETE —  
"E" WITH TACK APPLIED WHERE APPLICABLE.  
DEPTH TO BE DETERMINED DURING PERMIT  
PROCESS.

BACKFILL: SHALL BE PLACED IN LIFTS —  
NOT EXCEEDING 12 INCHES IN THICKNESS  
AND COMPACTED TO 100% STANDARD  
PROCTOR.

BASE: 10 INCHES OF LIMEROCK OR  
GAB COMPACTED TO 100%  
STANDARD PROCTOR.

NOTE: CONCRETE MATERIALS SHALL  
NOT BE USED ON ASPHALT ROADS



**NOTE:**

IF THE EXISTING ROAD SURFACE HAS IRREGULARITIES ON EITHER SIDE OF THE PROPOSED STREET CUT AN ASPHALT OVERLAY MAY BE REQUIRED TO MAKE A SMOOTH RIDING SURFACE. ALL IRREGULARITIES IN EXCESS OF 3/16 INCH IN TEN FEET SHALL BE CORRECTED.

NOT TO SCALE



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## TRENCH DETAIL (TRAFFIC AREAS)

JWSC 3-11

DESIGNED: BGJWSC

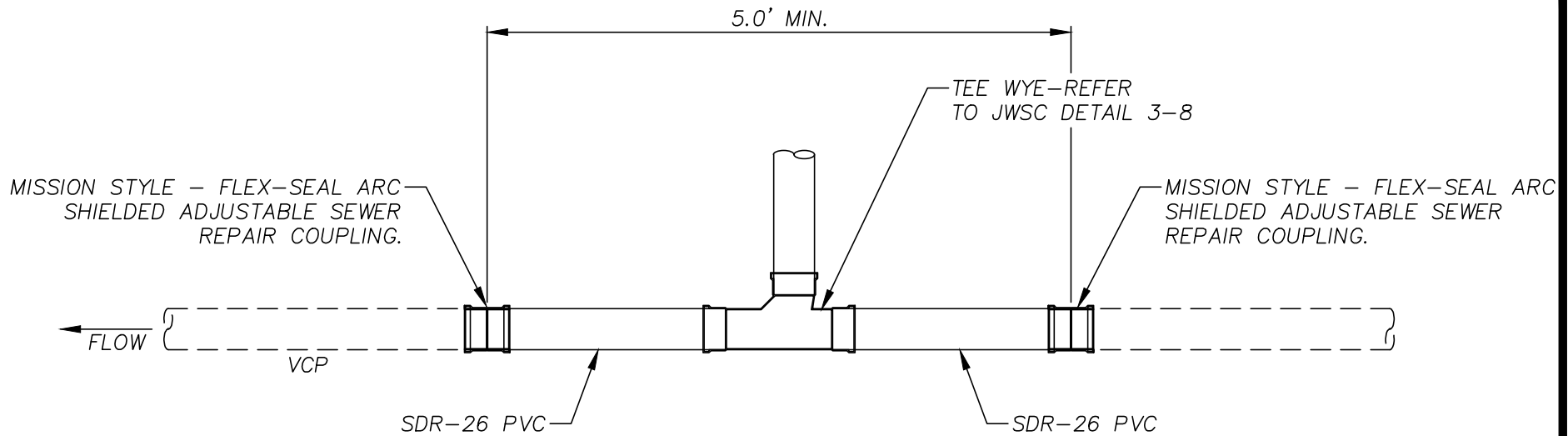
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**NOTES:**

1. CONTRACTOR TO CUT AND REMOVE A MIN 5.0' SECTION OF THE EXISTING VCP. THE CONTRACTOR MEASURES AND MARKS WHERE THE PIPE NEEDS TO BE CUT. THE CONTRACTOR WILL UTILIZE A RECIPROCATING SAW, HACK SAW, SNAP CUTTER OR ANGLE GRINDER TO ACCOMPLISH THE CUT.
2. CONTRACTOR TO COORDINATE PLUGGING OF ACTIVE SEWER MAINS WITH THE UTILITY INSPECTOR AND SYSTEM PUMPING AND MAINTENANCE. IN SOME CASES A BY-PASS MAY BE REQUIRED.
3. WASTEWATER DISCHARGING INTO THE TRENCH WILL BE COLLECTED BY A VAC-CON STYLE TRUCK AND DISCHARGED AT A JWSC WASTEWATER POLLUTION CONTROL PLANT.

NOT TO SCALE



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**SEWER TAP ON  
EXISTING VCP**

**JWSC 3-12**

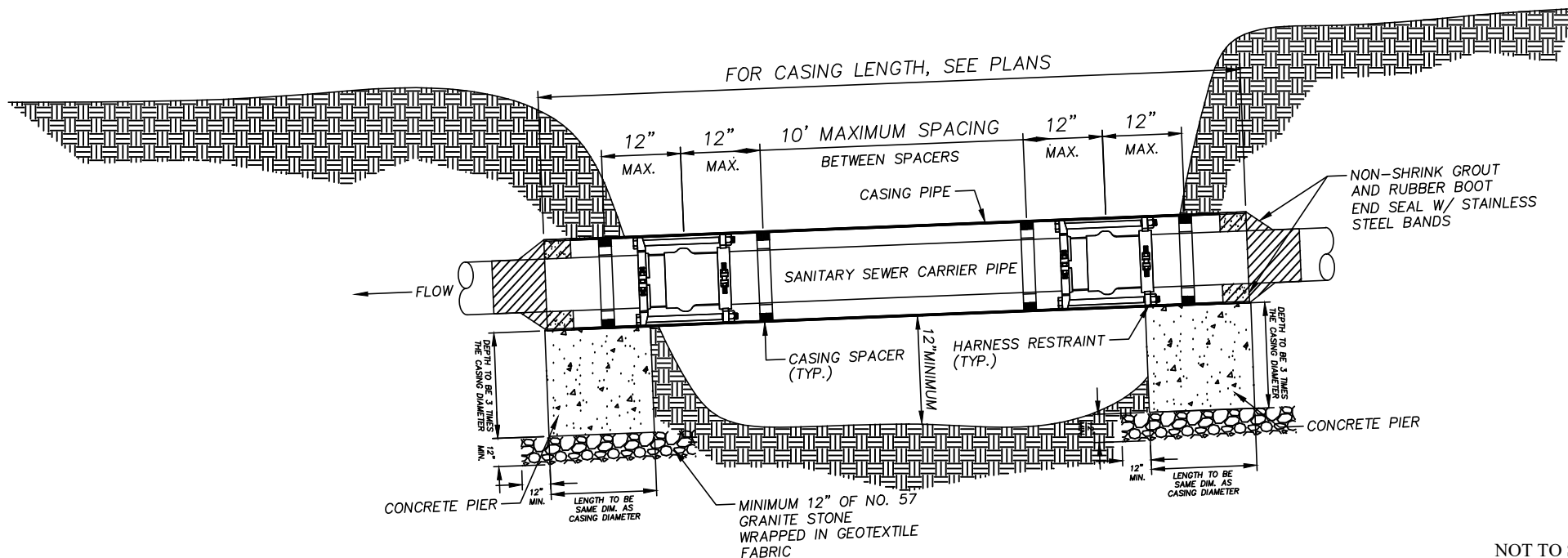
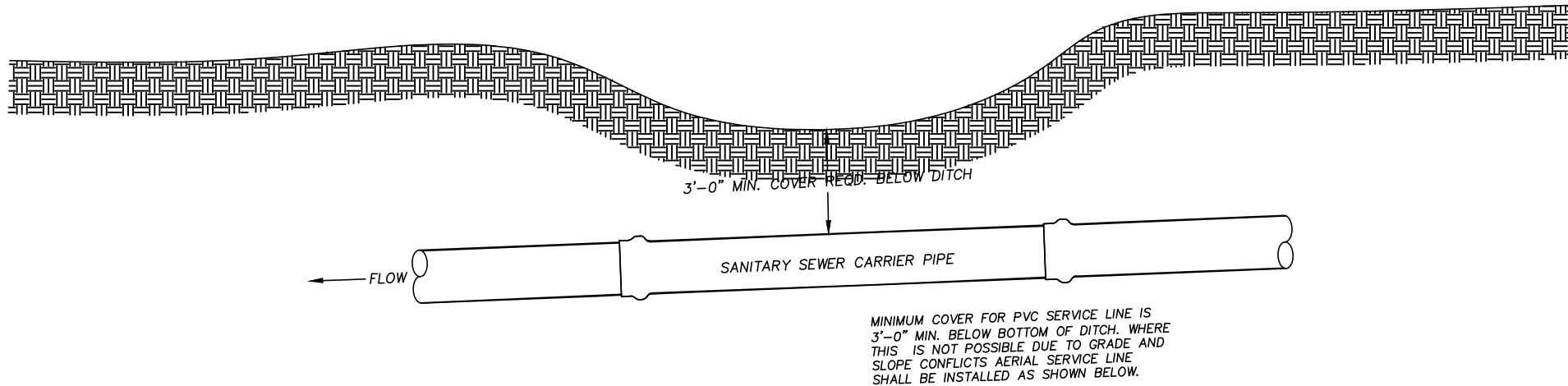
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NOT TO SCALE



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## SEWER SERVICE DITCH CROSSING DETAIL

JWSC 3-13

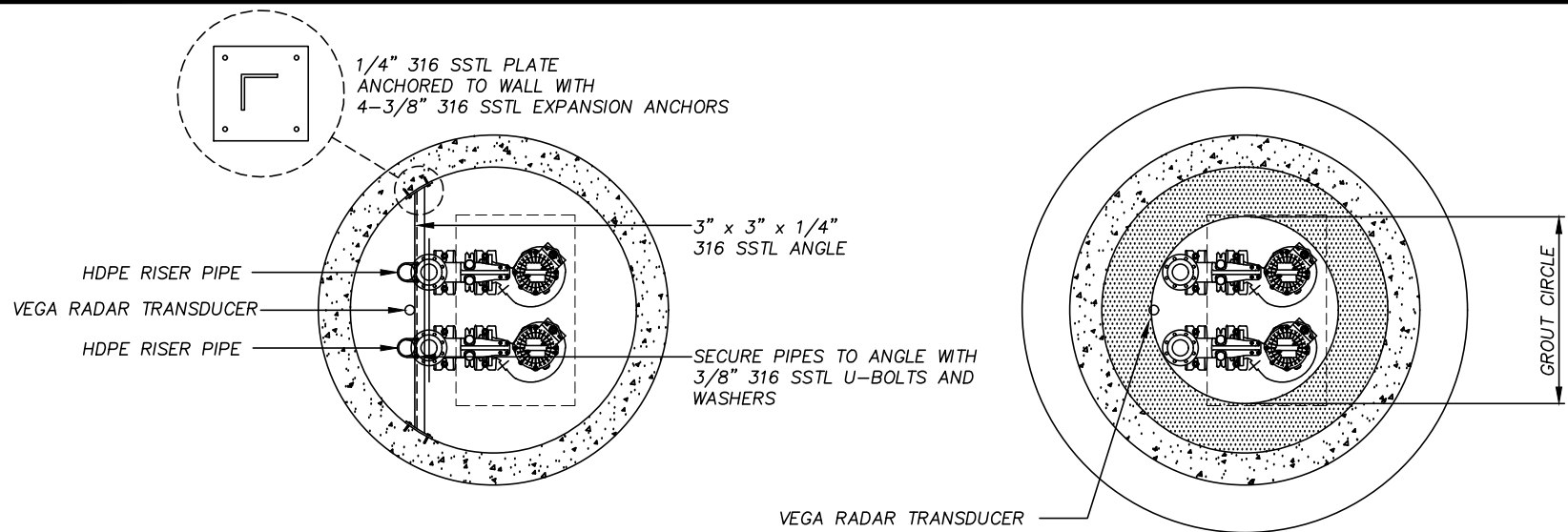
DESIGNED: BGJWSC

DRAWN: HPATEL

DATE: 05/26/2022

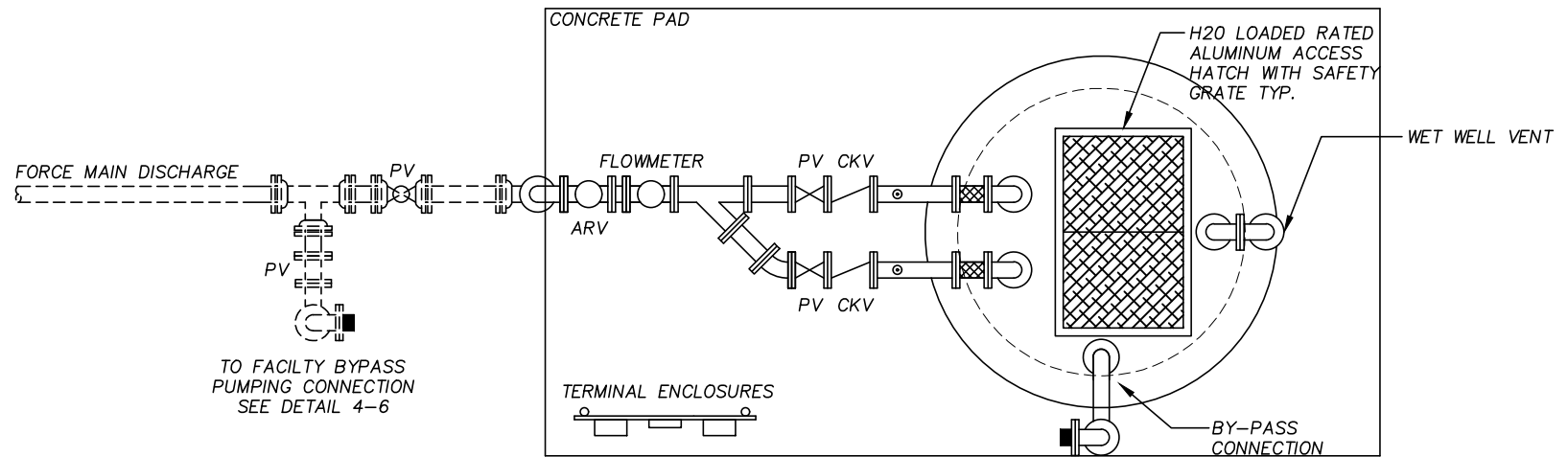
SCALE: NTS

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INTERMEDIATE PLAN

LOWER PLAN



TOP PLAN

SEE ALSO DETAILS  
4-2 AND 4-6

NOT TO SCALE



# BRUNSWICK-GLYNN JOINT WATER & SEWER COMMISSION

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Brunswick, Georgia 31520

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# TYPICAL ABOVE GROUND PUMPING STATION - PLAN

JWSC 4-1

DESIGNED: BGJWSC

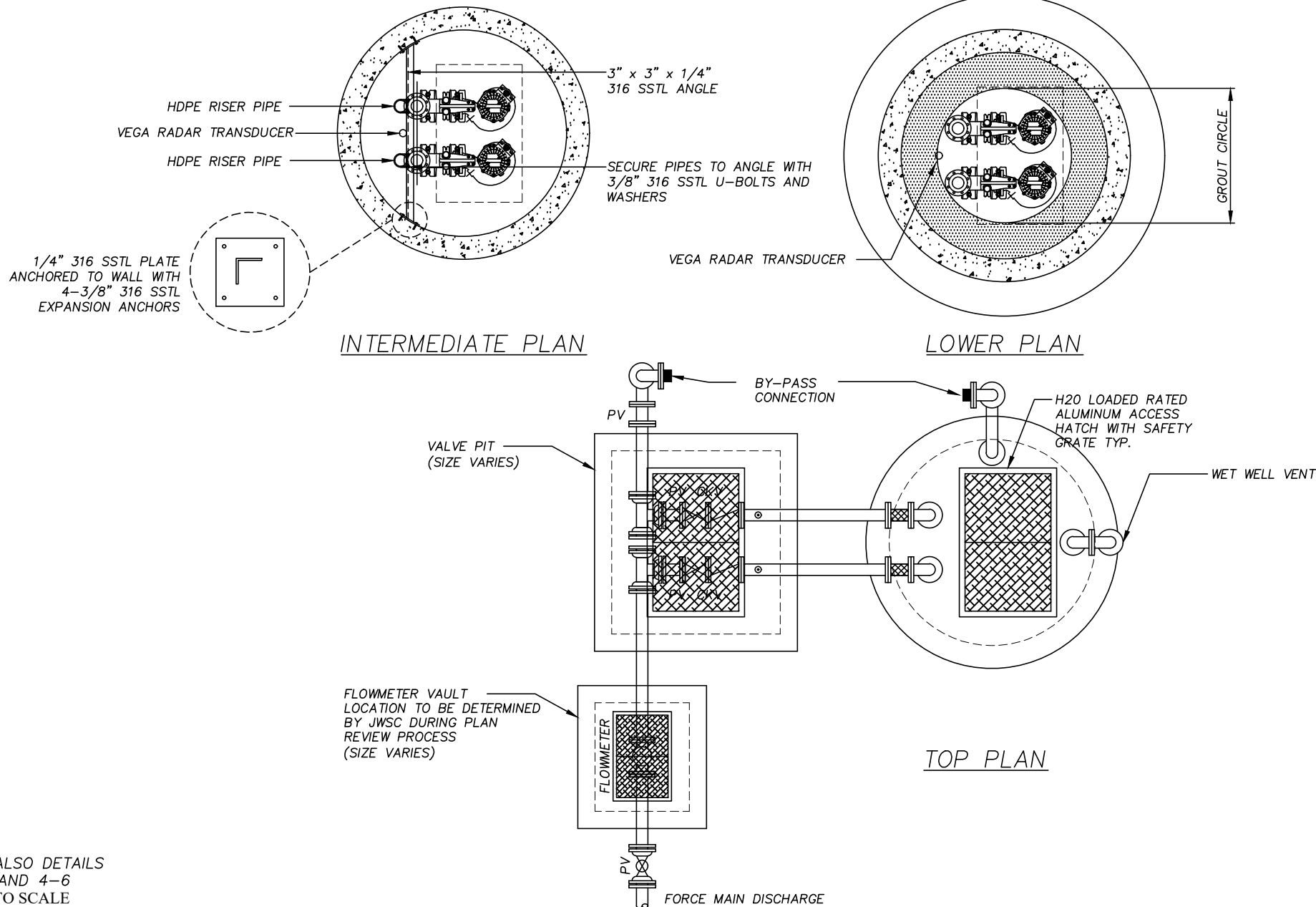
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SEE ALSO DETAILS  
4-2 AND 4-6  
NOT TO SCALE



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## TYPICAL VALVE PIT PUMPING STATION - PLAN

JWSC 4-1A

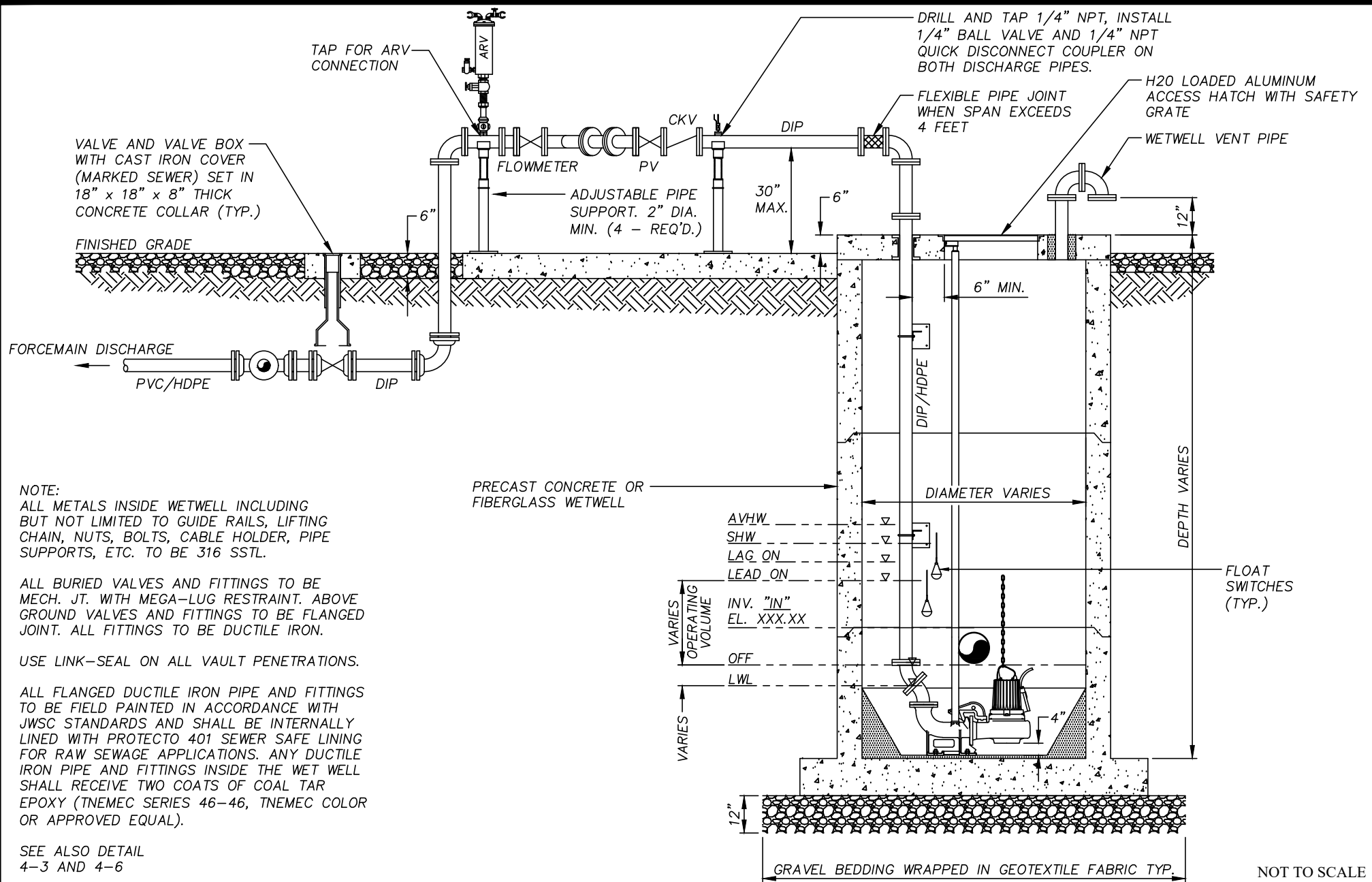
DESIGNED: BGJWSC

DRAWN: HPATEL

DATE: 05/26/2022

SCALE: NTS

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## TYPICAL ABOVE GROUND PUMPING STATION - SECTION

JWSC 4-2

DESIGNED: BGJWSC

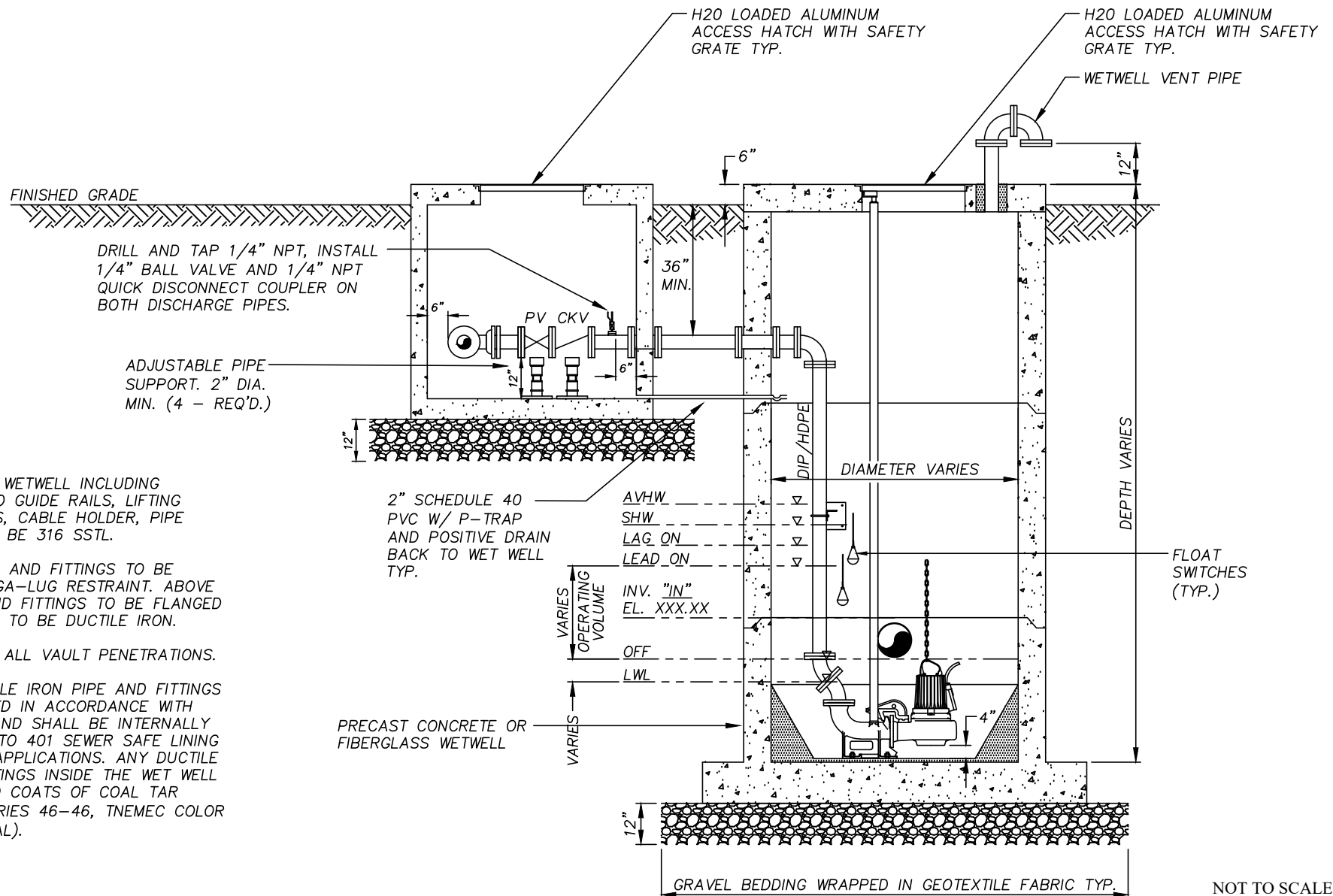
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DATE: 05/26/2022

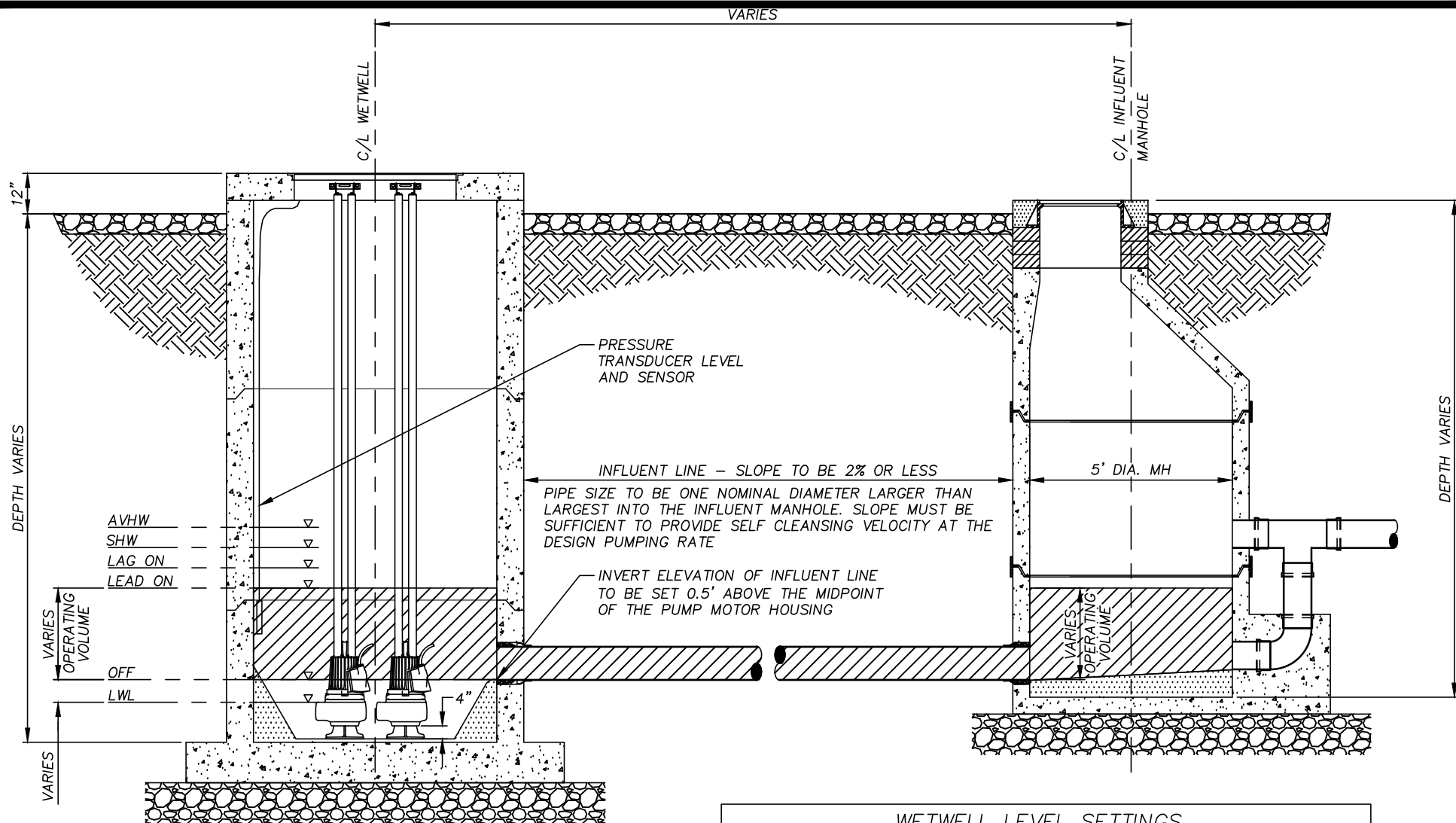
SCALE: NTS

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#### WETWELL LEVEL SETTINGS

|         |                               |                                |
|---------|-------------------------------|--------------------------------|
| LWL     | LOW WATER LEVEL               | TOP OF PUMP VOLUTE             |
| OFF     | ALL PUMPS OFF                 | MID POINT OF MOTOR HOUSING     |
| LEAD ON | LEAD PUMP ON                  | SEE JWSC DESIGN STANDARDS      |
| LAG ON  | LAG PUMP ON                   | LEAD PUMP ON LEVEL PLUS 6"     |
| SHW     | SCADA HIGH WATER LEVEL        | LAG PUMP ON LEVEL PLUS 6" (*)  |
| AVHW    | AUDIO/VISUAL HIGH WATER LEVEL | SCADA HIGH WATER LEVEL PLUS 6" |

(\*) IN NO CASE SHALL THE SHW LEVEL BE HIGHER THAN THE INVERT OF THE LOWEST SEWER INTO THE INFLUENT MANHOLE.

NOT TO SCALE



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## INFLUENT MANHOLE WETWELL LEVEL SETTINGS

JWSC 4-3

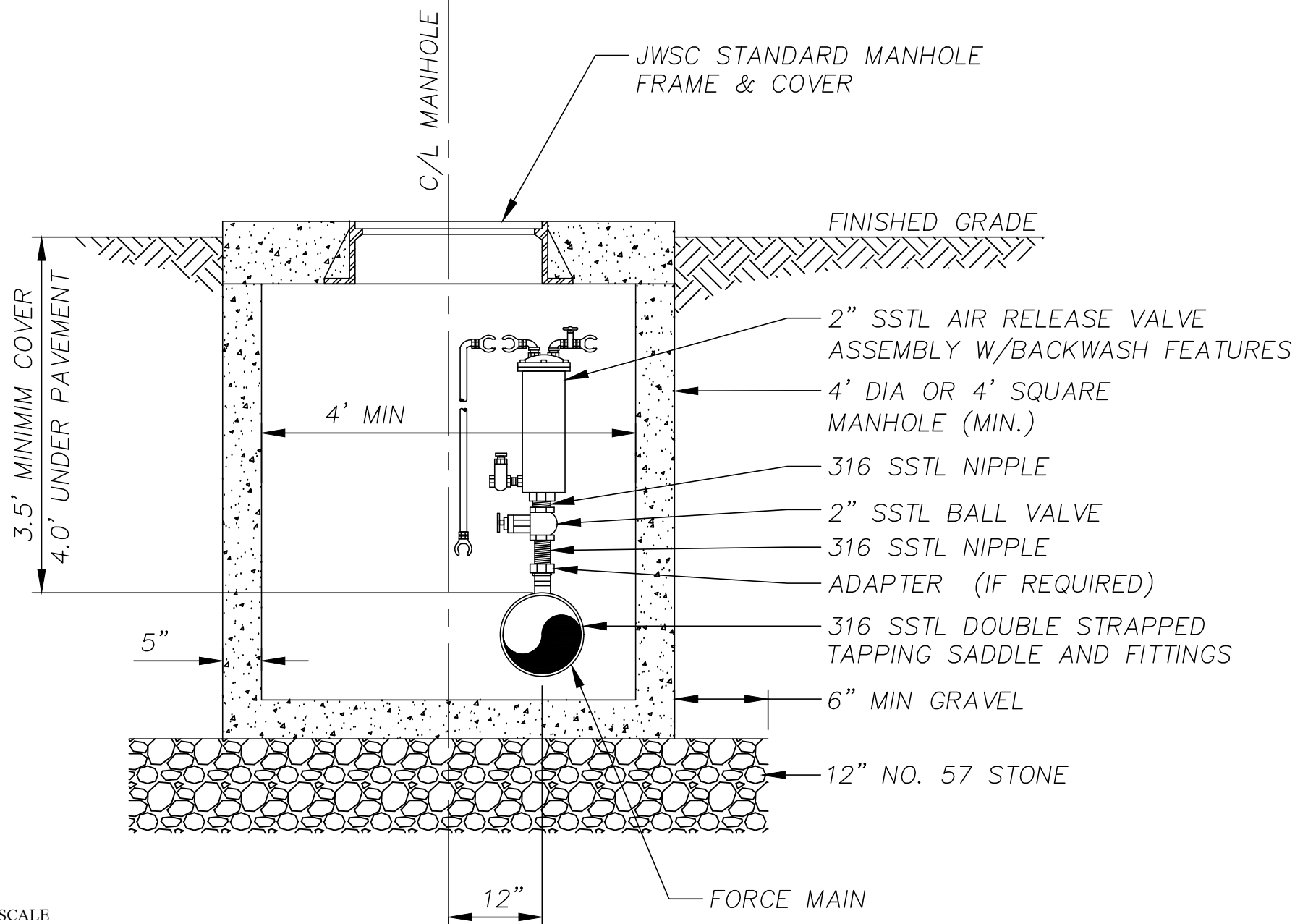
DESIGNED: BGJWSC

DRAWN: HPATEL

DATE: 05/26/2022

SCALE: NTS

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NOT TO SCALE



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## **ARV MANHOLE**

**JWSC 4-4**

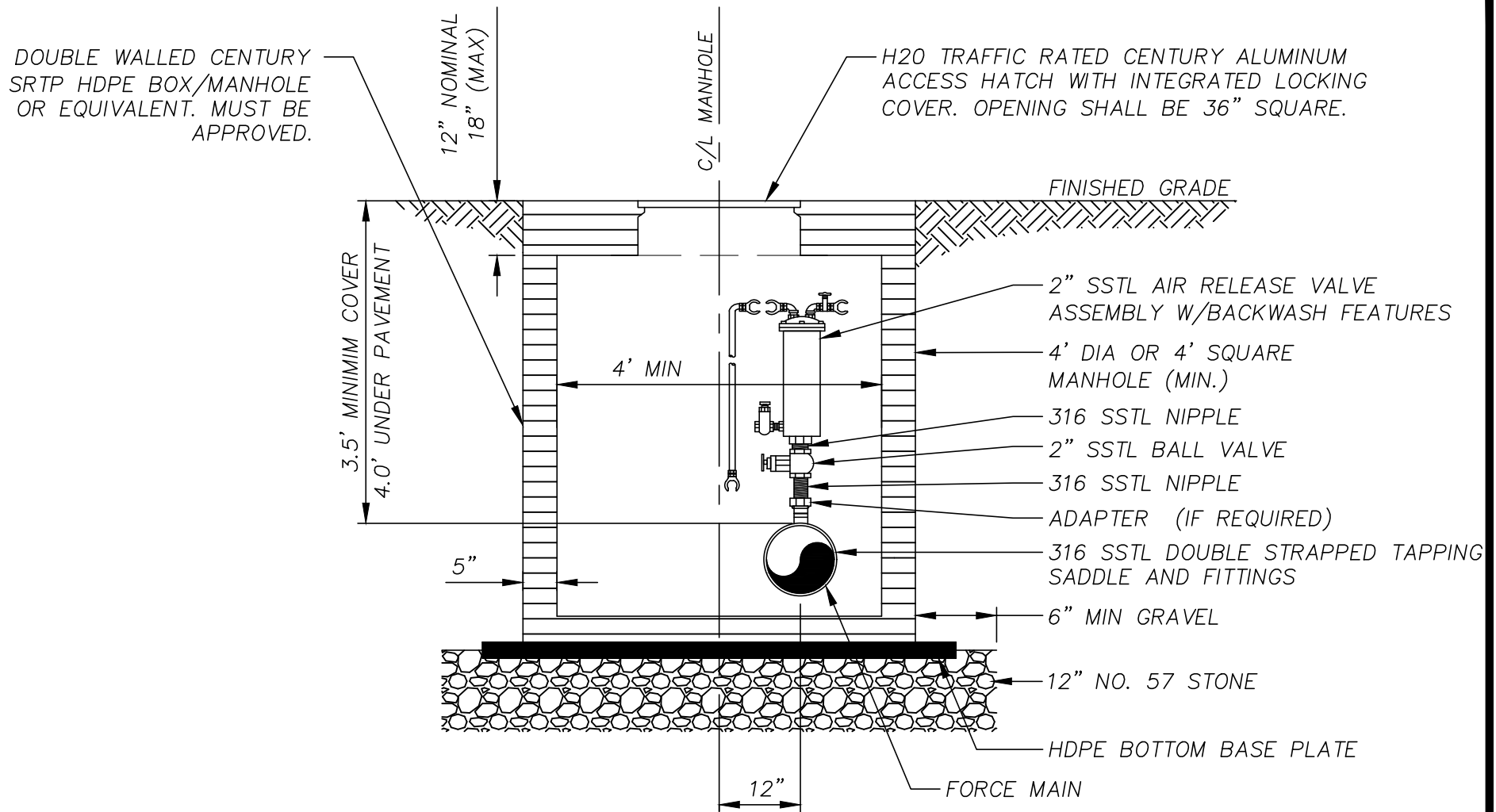
DESIGNED: BGJWSC

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DATE: 05/26/2022

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**NOTES:**

1. THE ACCESS HATCH SHALL HAVE NO GASKET TO ALLOW AIR TO EXIT VAULT PER JWSC STANDARDS.
2. IN WET AREAS INSTALL A FLOTATION RING AS REQUIRED.

NOT TO SCALE



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**ARV HDPE  
BOX/MANHOLE**

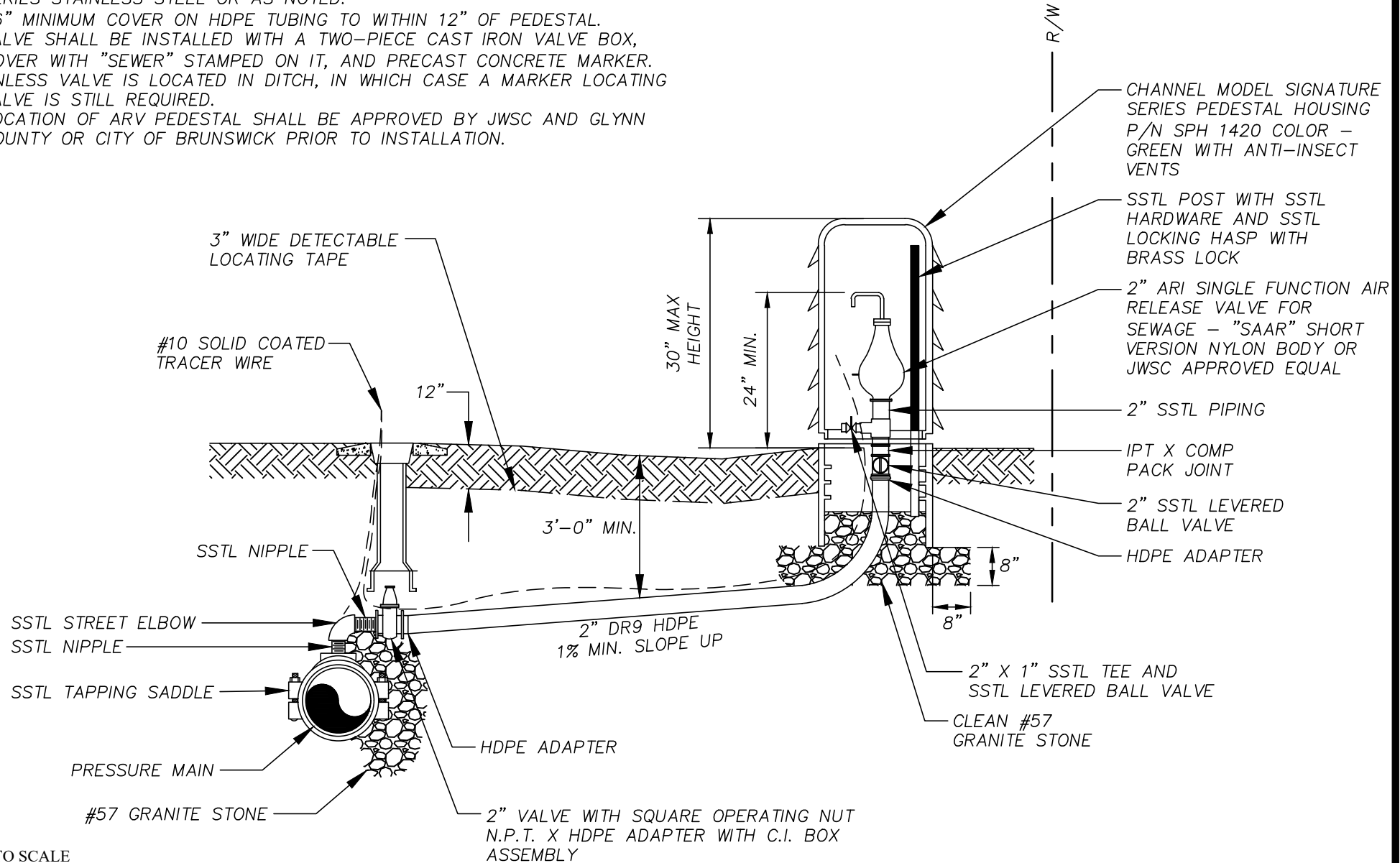
**JWSC 4-4A**

DESIGNED: BGJWSC DRAWN: HPATEL  
DATE: 05/26/2022 SCALE: NTS

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NOTES:

1. PIPING, NIPPLES, PLUGS & BALL VALVES AND TAPPING SADDLES TO BE 316 SERIES STAINLESS STEEL OR AS NOTED.
2. 36" MINIMUM COVER ON HDPE TUBING TO WITHIN 12" OF PEDESTAL.
3. VALVE SHALL BE INSTALLED WITH A TWO-PIECE CAST IRON VALVE BOX, COVER WITH "SEWER" STAMPED ON IT, AND PRECAST CONCRETE MARKER. UNLESS VALVE IS LOCATED IN DITCH, IN WHICH CASE A MARKER LOCATING VALVE IS STILL REQUIRED.
4. LOCATION OF ARV PEDESTAL SHALL BE APPROVED BY JWSC AND GLYNN COUNTY OR CITY OF BRUNSWICK PRIOR TO INSTALLATION.



NOT TO SCALE



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**SEWER AIR RELEASE  
VALVE PEDESTAL  
ASSEMBLY DETAIL**

**JWSC 4-4B**

DESIGNED: BGJWSC

DRAWN: HPATEL

DATE: 05/26/2022

SCALE: NTS

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2" SLEEVE AND TOP  
OF STILLING WELL

FINISHED GRADE

24"

HEIGHT VARIES  
ANCHOR SECURELY WITH  
PUMP DISCHARGE PIPE

24"  
SLOTTED

12"

SET LEVEL WITH  
PUMP INTAKE

6" PVC STILLING WELL

NOTE:

THIS STILLING WELL DETAIL TO BE  
USED ONLY WHERE INDICATED AND  
WHERE TRANSDUCER IS USED IN  
LIEU OF FLOAT SWITCHES.

NOT TO SCALE



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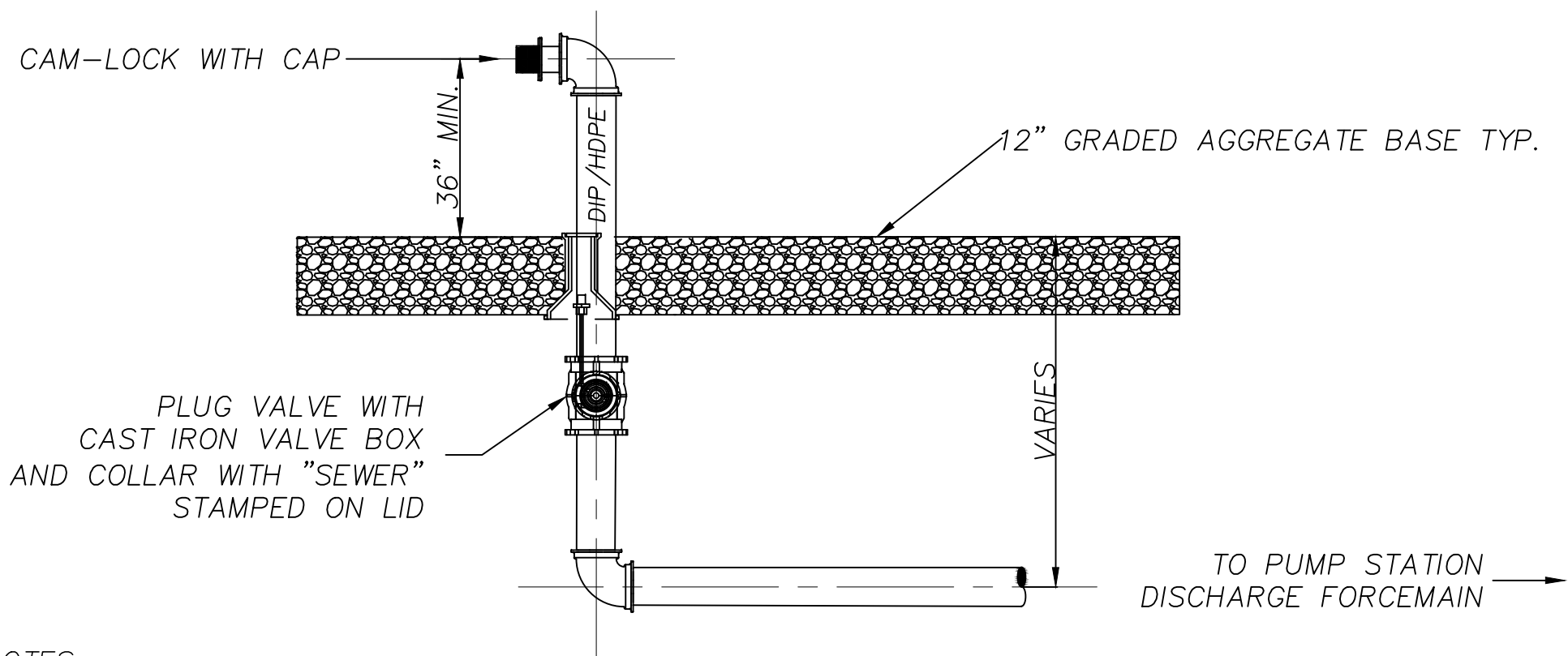
## TRANSDUCER STILLING WELL

JWSC 4-5

DESIGNED: BGJWSC    DRAWN: HPATEL  
DATE: 05/26/2022    SCALE: NTS

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NOTES:

1. CONTRACTOR TO SUPPLY T-HANDLE WRENCH. (1) PER EMERGENCY QUICK CONNECT.
- 2 .BYPASS PIPING TO BE PROTECTO 401 COATED DIP WITH MEGA-LUG RESTRAINT ON ALL FITTINGS.

NOT TO SCALE



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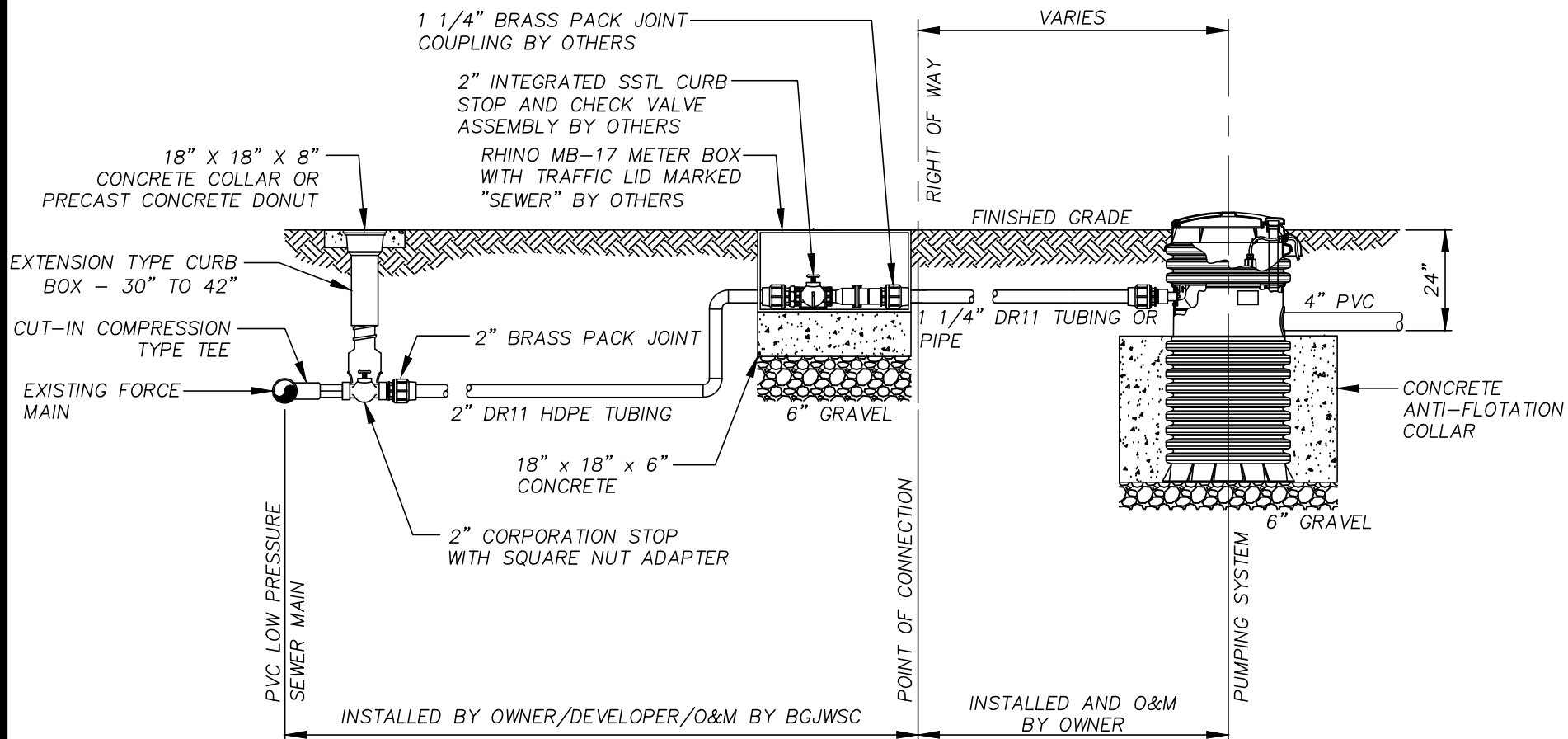
**FACILITY BYPASS  
PUMPING CONNECTION**

**JWSC 4-6**

|                  |               |
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| DESIGNED: BGJWSC | DRAWN: HPATEL |
| DATE: 05/26/2022 | SCALE: NTS    |

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**NOTES:**

1. THE 2" INTEGRATED STAINLESS STEEL CURB STOP/CHECK VALVE ASSEMBLY SHALL BE E/ONE PART NUMBER NC044P301, NC0517G01 OR A PREVIOUSLY APPROVED EQUAL.
2. THE BOX HOUSING THE INTEGRATED STAINLESS STEEL CURB STOP/CHECK VALVE ASSEMBLY SHALL BE A RHINO MB-17 WITH TRAFFIC RATED LID MARKED SEWER OR PREVIOUSLY APPROVED EQUAL.
3. SEE WATER AND SEWER ORDINANCE 2-16-8(2)(d) FOR OWNER INSTALLATION RESPONSIBILITIES.

PUMPING SYSTEM TO BE A COMPLETELY FACTORY ASSEMBLED SIMPLEX GRINDER PUMPING STATION SPECIFICALLY DESIGNED FOR USE IN LOW PRESSURE SEWER SYSTEMS INCLUDING HOLDING TANK, ANTI-FLOTATION COLLARS, MEDIUM TO HIGH HEAD GRINDER PUMP, WITH LEVEL CONTROL SYSTEM AND CONTROL PANEL. HIGH HEAD GRINDER PUMPS (FLOWS TO 28 GPM AND HEADS TO 200 FEET) MAY BE USED UNIVERSALLY THROUGHOUT THE SYSTEM. DEPENDING UPON THE LOCATION WITHIN THE SYSTEM, MEDIUM HEAD GRINDER PUMPS MAY BE USED AS A COST SAVING MEASURE BUT IN NO CASE SHALL THE MOTOR HORSEPOWER BE LESS THAN 1.0. PUMP MANUFACTURERS SPECIALIZING IN EQUIPMENT USED IN LOW PRESSURE SEWER SYSTEMS CAN PROVIDE THE NECESSARY DESIGN ASSISTANCE IN THE SELECTION OF A SUITABLE PUMP.

NOT TO SCALE



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**LOW PRESSURE SYSTEM  
ONSITE SERVICE  
CONNECTION**

**JWSC 4-7**

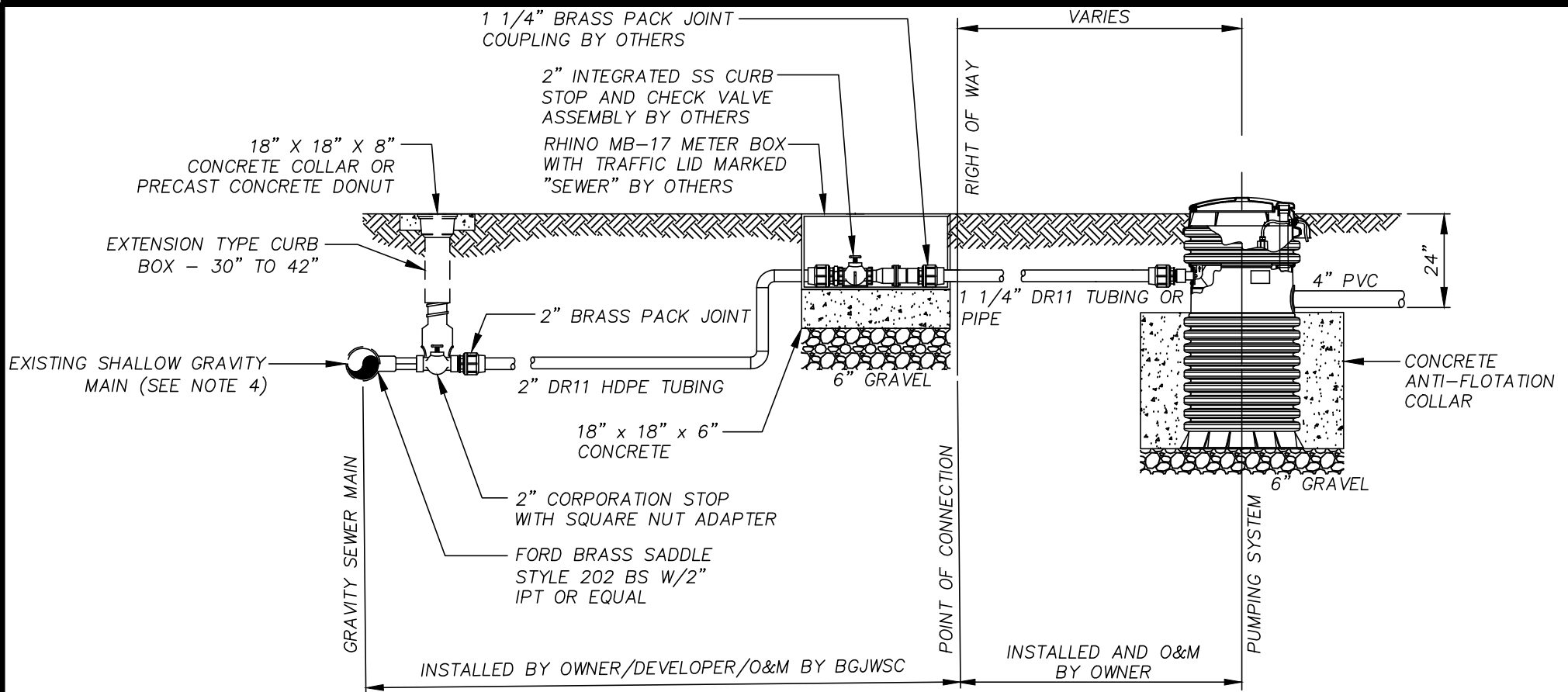
DESIGNED: BGJWSC

DRAWN: HPATEL

DATE: 05/26/2022

SCALE: NTS

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**NOTES:**

1. THE 2" INTEGRATED STAINLESS STEEL CURB STOP/CHECK VALVE ASSEMBLY SHALL BE E/ONE PART NUMBER NC0443P01, NC0517G01 OR A PREVIOUSLY APPROVED EQUAL.
2. THE BOX HOUSING THE INTEGRATED STAINLESS STEEL CURB STOP/CHECK VALVE ASSEMBLY SHALL BE A RHINO MB-17 WITH TRAFFIC RATED LID MARKED SEWER OR PREVIOUSLY APPROVED EQUAL.
3. SEE WATER AND SEWER ORDINANCE 2-16-8(2)(d) FOR OWNER INSTALLATION RESPONSIBILITIES.
4. HIS APPLICATION IS FOR LPFM CONNECTIONS TO GRAVITY MAINS WITH INADEQUATE COVER TO INSTALL A SANITARY SEWER SERVICE LATERAL PER JWSC DETAIL 3-8A.

PUMPING SYSTEM TO BE A COMPLETELY FACTORY ASSEMBLED SIMPLEX GRINDER PUMPING STATION SPECIFICALLY DESIGNED FOR USE IN LOW PRESSURE SEWER SYSTEMS INCLUDING HOLDING TANK, ANTI-FLOTATION COLLARS, MEDIUM TO HIGH HEAD GRINDER PUMP, WITH LEVEL CONTROL SYSTEM AND CONTROL PANEL. HIGH HEAD GRINDER PUMPS (FLOWS TO 28 GPM AND HEADS TO 200 FEET) MAY BE USED UNIVERSALLY THROUGHOUT THE SYSTEM. DEPENDING UPON THE LOCATION WITHIN THE SYSTEM, MEDIUM HEAD GRINDER PUMPS MAY BE USED AS A COST SAVING MEASURE BUT IN NO CASE SHALL THE MOTOR HORSEPOWER BE LESS THAN 1.0. PUMP MANUFACTURERS SPECIALIZING IN EQUIPMENT USED IN LOW PRESSURE SEWER SYSTEMS CAN PROVIDE THE NECESSARY DESIGN ASSISTANCE IN THE SELECTION OF A SUITABLE PUMP.

NOT TO SCALE



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## LOW PRESSURE SYSTEM SERVICE CONNECTION TO GRAVITY MAINS

JWSC 4-7A

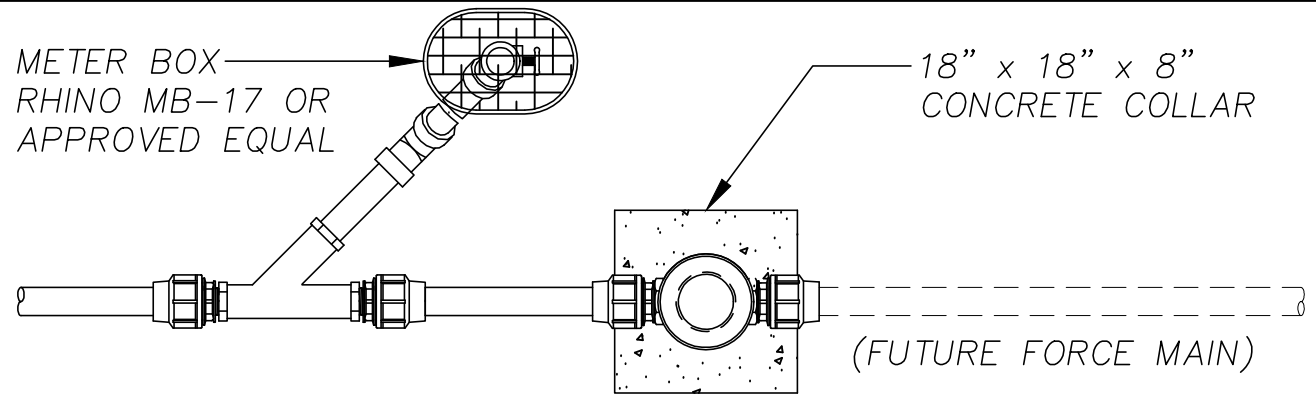
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DRAWN: HPATEL

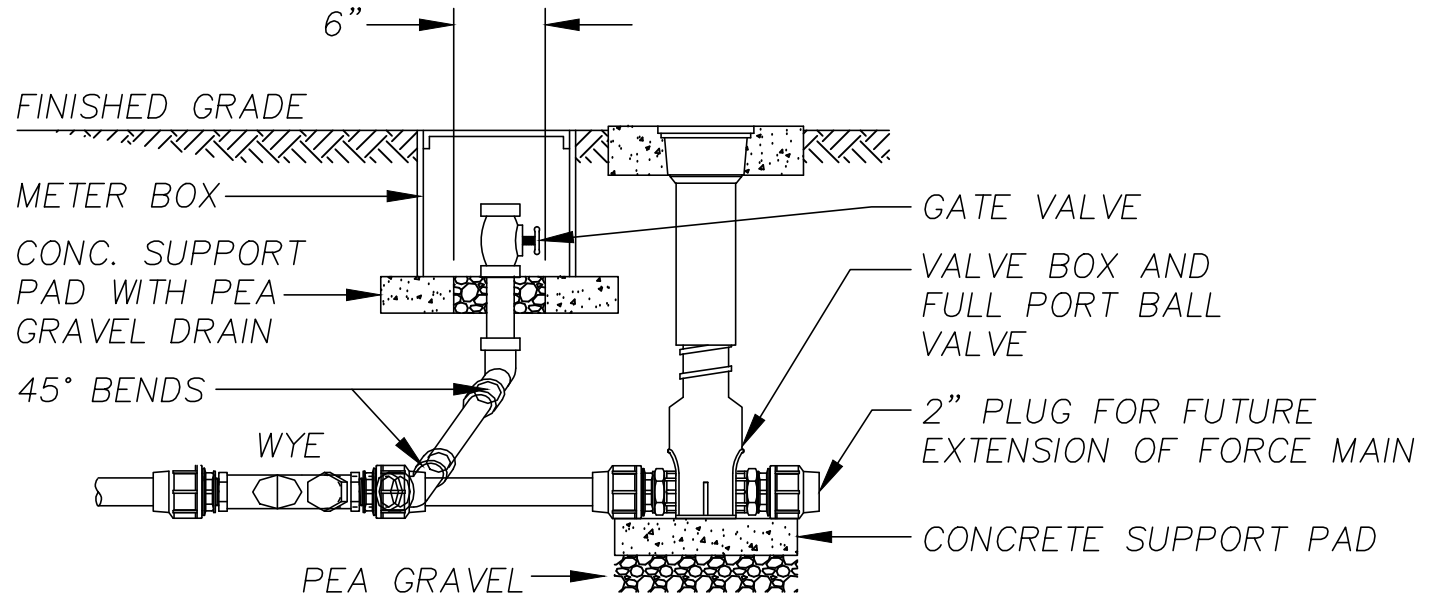
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PLAN VIEW



SECTION

NOT TO SCALE

NOTE: FLUSH CONNECTIONS  
SHALL BE INSTALLED IN  
500' INTERVALS.



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**LOW PRESSURE SYSTEM  
FLUSH CONNECTION**

**JWSC 4-8**

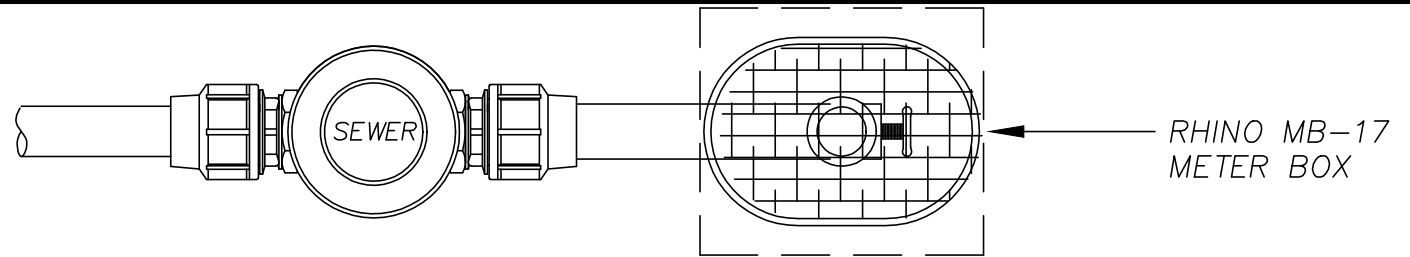
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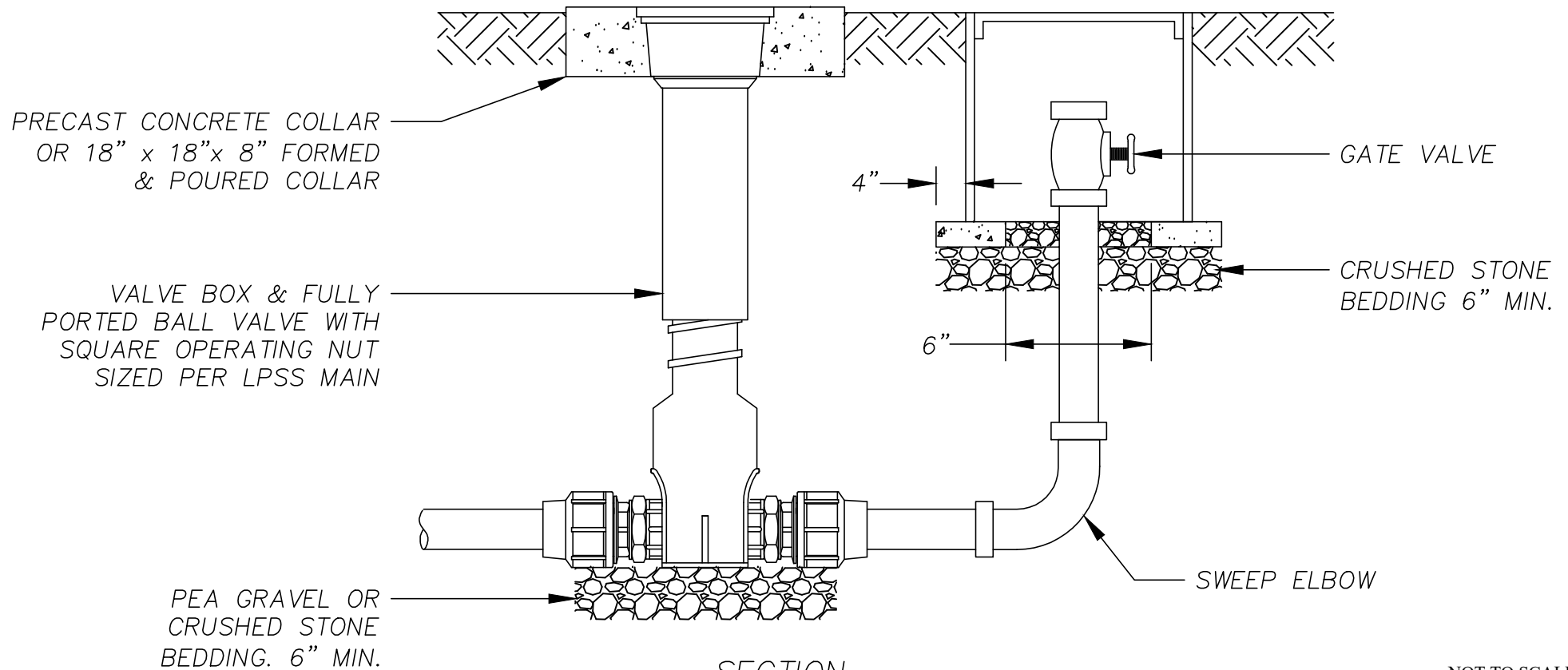
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PLAN VIEW



SECTION

NOT TO SCALE



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## **TYPICAL TERMINAL FLUSH CONNECTION**

**JWSC 4-8A**

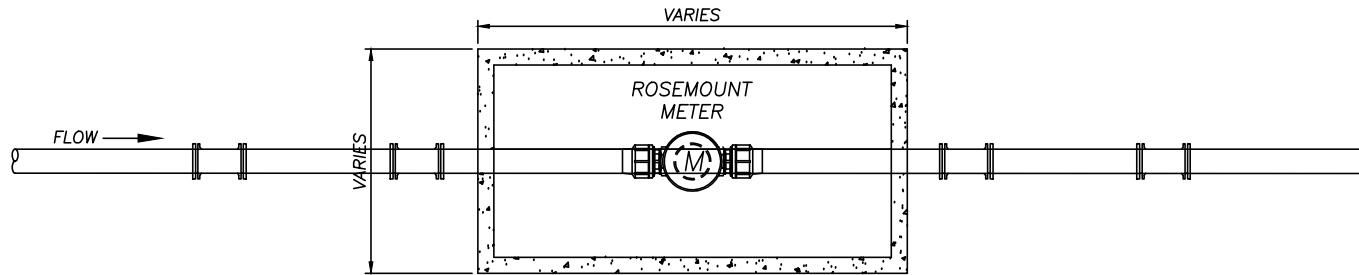
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DRAWN: HPATEL

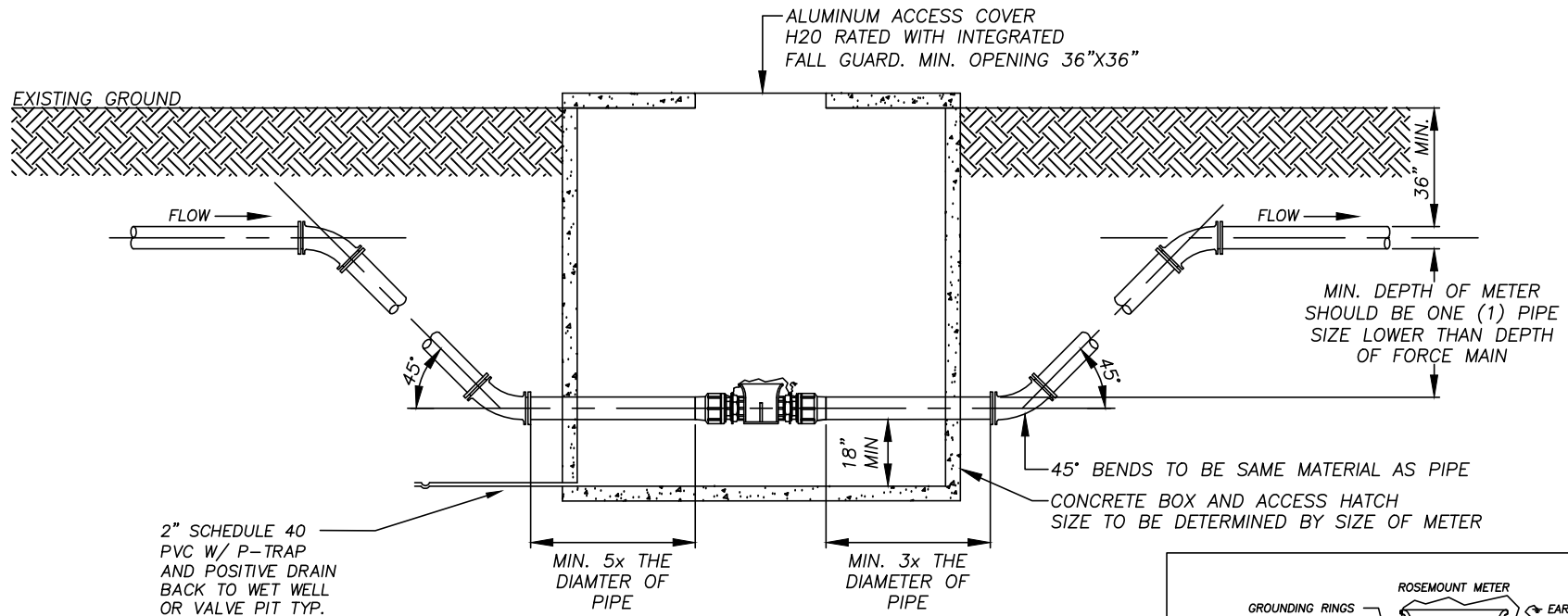
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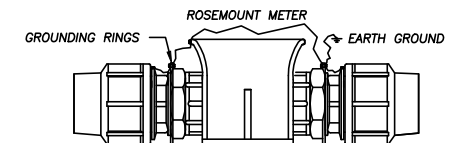
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PLAN VIEW



SECTION



NOTES:  
METER INSTALLATION PER  
MANUFACTURER'S RECOMMENDATION  
NOT TO SCALE



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## ROSEMOUNT METER DETAIL

JWSC 4-9

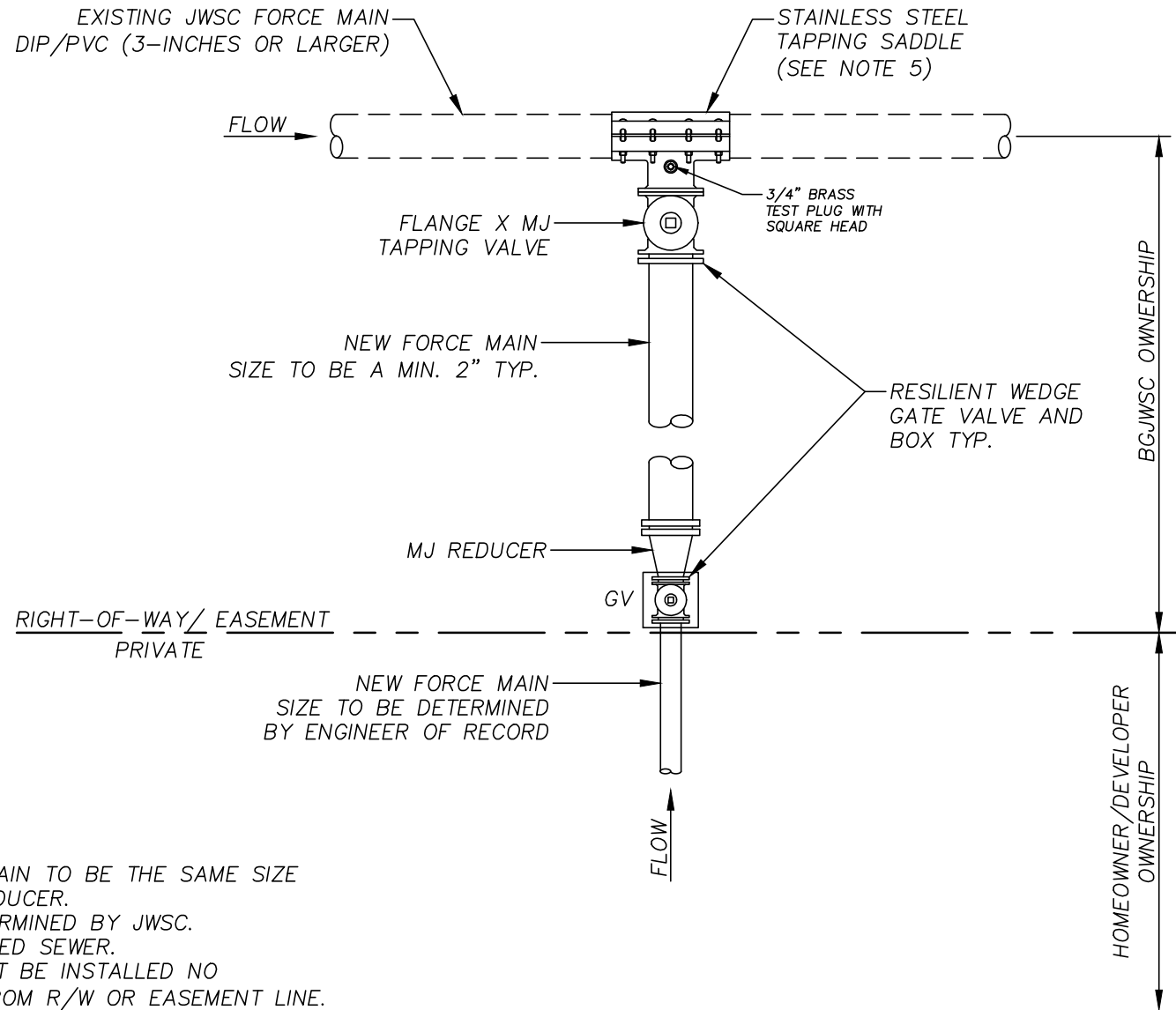
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DATE: 05/26/2022

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**NOTE:**

1. BRANCH VALVE AND NEW FORCE MAIN TO BE THE SAME SIZE AS EXISTING FORCE MAIN UPTO REDUCER.
2. DIRECTION OF BRANCH TO BE DETERMINED BY JWSC.
3. ALL VALVE BOX LIDS TO BE STAMPED SEWER.
4. RESILIENT WEDGE GATE VALVE MUST BE INSTALLED NO GREATER THAN +/- 12-INCHES FROM R/W OR EASEMENT LINE.
5. SADDLE FOR TAPS 2" AND SMALLER SHALL BE EPOXY COATED DUCTILE IRON BODY, DOUBLE STRAPPED TYPE WITH NPT SERVICE OUTLET. RUBBER GASKET RING, TWO ALLOY STEEL STRAPS, AWWA C800 FEMALE IRON PIPE TAP.

NOT TO SCALE



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**FORCE MAIN  
CONNECTION TO  
EXISTING FORCE MAIN -  
3" OR LARGER**

**JWSC 4-10**

DESIGNED: BGJWSC

DRAWN: HPATEL

DATE: 05/26/2022

SCALE: NTS

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EXISTING GRADE

MIN. 2" LOW PRESSURE  
SEWER LINE — DR9 HDPE

3' MIN.

SSTL STRAP  
24" O.C.

FORCE MAIN  
DISCHARGE  
MANHOLE

INSTALL RUBBER BOOT WITH  
CLAMPS. FILL VOID AREA  
WITH NON-SHRINK GROUT

NO INVERT  
MANHOLE

GRAVITY  
SEWER

12" (TYP.)

# GENERAL NOTES:

COAT INTERIOR OF THE MANHOLE  
WITH HYDROGEN SULFIDE RESISTANT  
CEMENTITIOUS PRODUCT(S)  
CONTAINING CALCIUM ALUMINATES.

NOT TO SCALE



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**TYP. DROP CONNECTION  
LPFM IN DEAD END  
MANHOLE**

**JWSC 4-11**

DESIGNED: BGJWSC

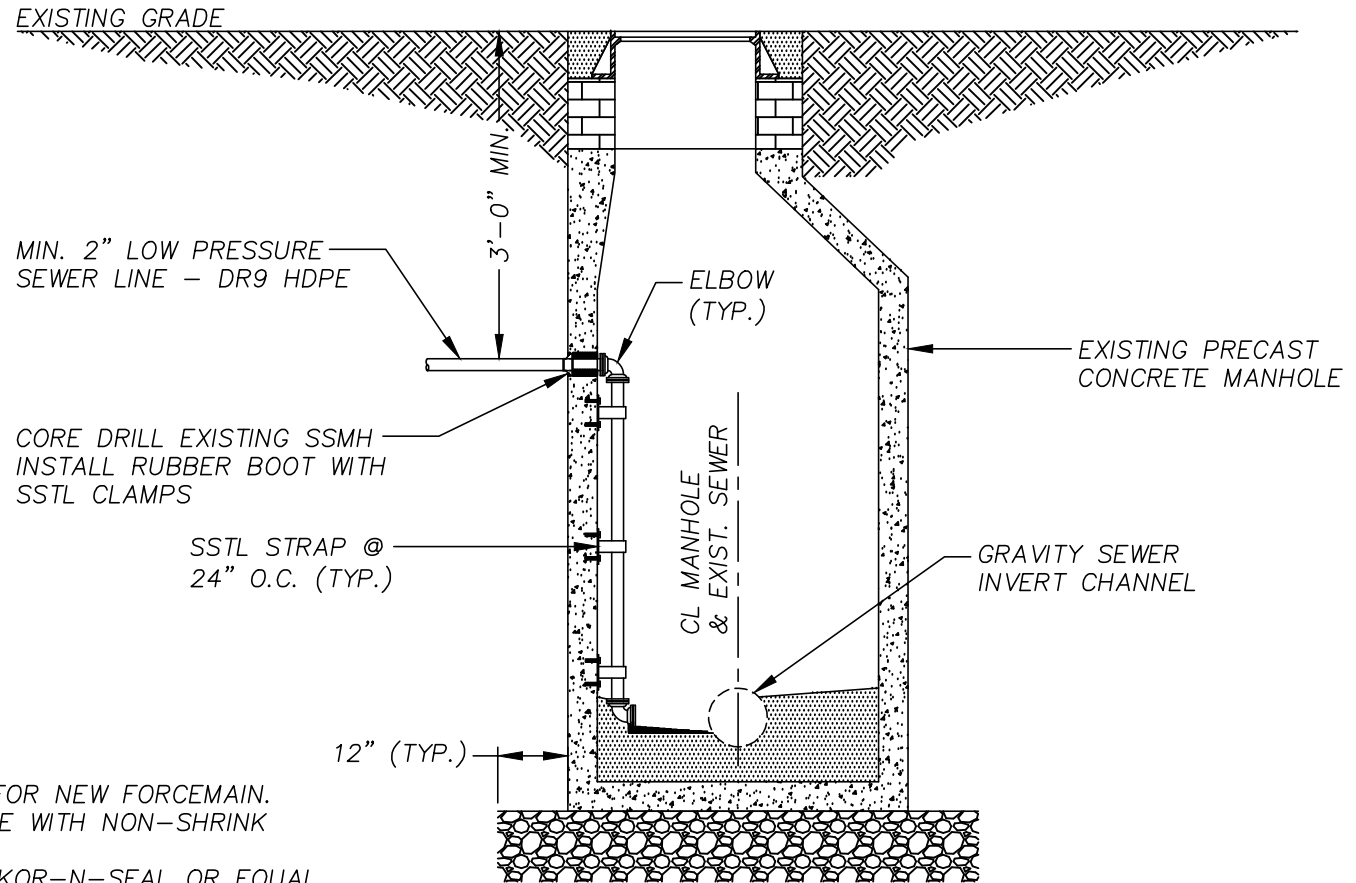
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**GENERAL NOTES:**

1. CORE OPENING IN EXISTING WALL FOR NEW FORCEMAIN. FILL ANNULAR SPACE AROUND PIPE WITH NON-SHRINK GROUT.
2. PROVIDE FLEXIBLE RUBBER BOOT, KOR-N-SEAL OR EQUAL
3. PROVIDE MJ 90° BEND WITH RESTRAINED JOINTS WHERE SHOWN.
4. PROVIDE MJ 90° BASE BEND WITH RESTRAINED JOINTS WHERE SHOWN.
5. MODIFY AND REPAIR MANHOLE INVERTS AS REQUIRED TO ACCOMMODATE FORCEMAIN CONNECTIONS.
6. CONNECT PIPE TO WALL OF MANHOLE WITH STAINLESS STEEL SUPPORT AND ANCHOR BOLTS.
7. COAT INTERIOR OF THE MANHOLE WITH A HYDROGEN SULFIDE RESISTANT CEMENTITIOUS PRODUCT CONTAINING CALCIUM ALUMINATES.

NOT TO SCALE



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**LPFM INSIDE DROP  
MANHOLE SECTION**

**JWSC 4-11A**

DESIGNED: BGJWSC

DRAWN: HPATEL

DATE: 05/26/2022

SCALE: NTS

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DEFINITIONS  
GEC – GROUNDING ELECTRODE  
CONDUCTOR PER NEC TABLE 250.66

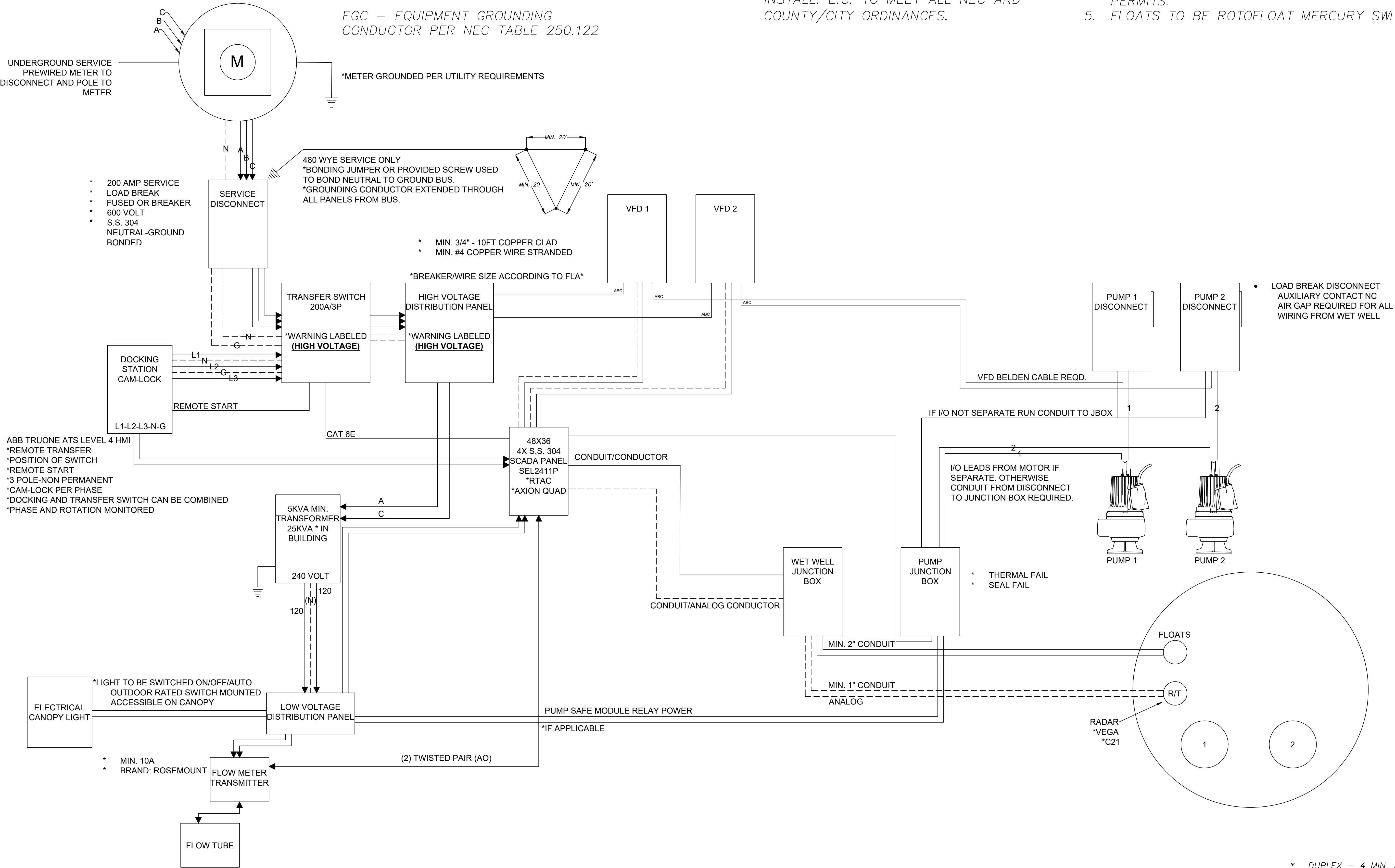
BONDING JUMPER – PER NEC TABLE 250  
102(C)(1)

EGC – EQUIPMENT GROUNDING  
CONDUCTOR PER NEC TABLE 250.122

200AMP – 480 SERVICE  
DUPLEX – 90AMP 40HP. MAX..

ALL RATINGS BASED ON NEC AT TIME  
OF CREATION. JWSC RECOMMENDS TO  
FOLLOW LATEST NEC CODES DURING  
INSTALL. E.C. TO MEET ALL NEC AND  
COUNTY/CITY ORDINANCES.

- GENERAL NOTES
- 40% CONDUIT FILL
  - MIN 3/4 SIZE CONDUIT
  - ALL WORK TO BE PERFORMED IN ACCORDANCE TO THE CURRENT NEC EDITION.
  - CONTRACTOR REQUIRED TO ACQUIRE ALL REQUIRED PERMITS.
  - FLOATS TO BE ROTOFLOAT MERCURY SWITCH.



BRUNSWICK-GLYNN COUNTY  
JOINT WATER & SEWER COMMISSION  
PLANNING & CONSTRUCTION DIVISION  
1703 Gloucester Street  
Brunswick, Georgia 31520  
(912) 261-7110 Phone  
(912) 261-7178 Fax  
www.jgwsco.org

| COMMENTS: |                         |
|-----------|-------------------------|
| NO.       | REVISIONS - D. GRANTHAM |
| 1         |                         |
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|           |                         |
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|           |                         |

PROJECT NAME  
GLYNN COUNTY, GEORGIA  
BRUNSWICK-GLYNN COUNTY JOINT WATER & SEWER COMMISSION  
JWSC INTER-CONNECTING DIAGRAM VFD

|                            |                    |            |               |
|----------------------------|--------------------|------------|---------------|
| FILE NO.: JWSC PROJ. #2109 | DATE: MAR 27, 2023 | SCALE: NTS | DRAWN BY: NTS |
| SHEET NO.: E-1             |                    |            |               |



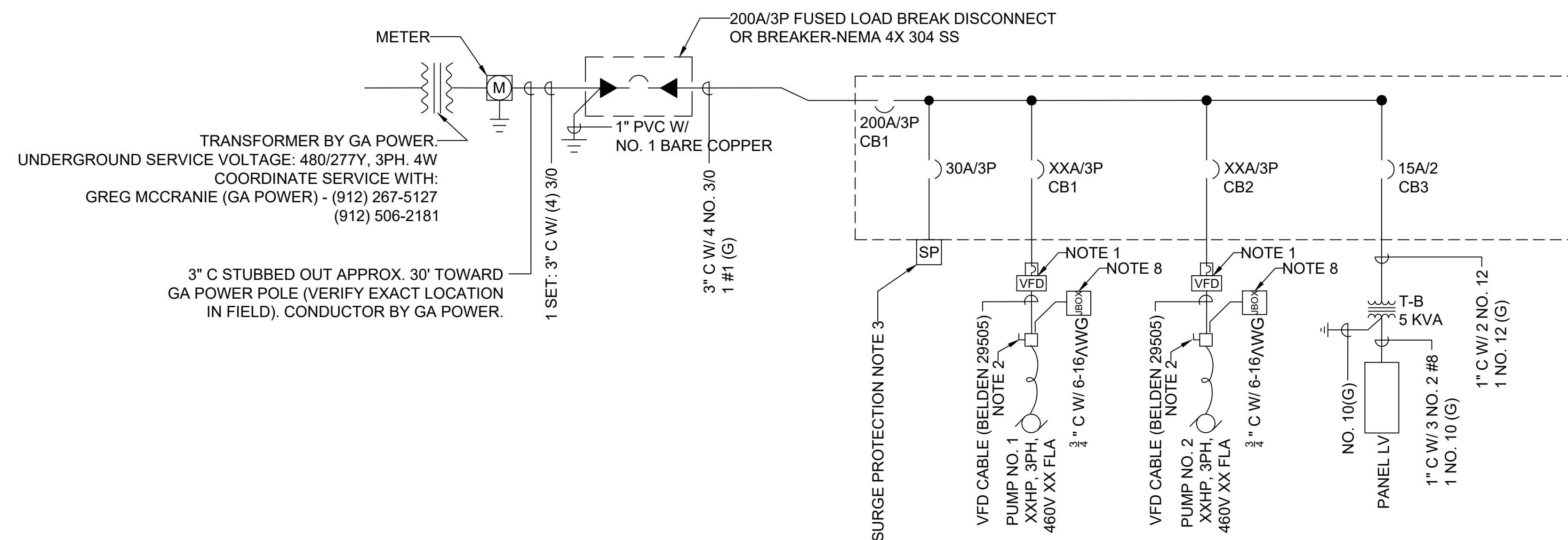
"ALL ELECTRICAL AND SCADA IMPROVEMENTS SHOWN ARE FOR CONCEPT REFERENCE ONLY. THE CONTRACTOR IS RESPONSIBLE TO OBTAIN THE SERVICES OF A LICENSED ELECTRICIAN TO REVIEW AND ENSURE ALL CONSTRUCTION IS IN COMPLIANCE WITH ALL APPLICABLE ELECTRICAL, GROUNDING, AND SAFETY CODES."

CALL BEFORE YOU DIG!  
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\* DUPLEX – 4 MIN. FLOATS  
4–FLOATS; OFF, LEAD, LAGI, HIGH

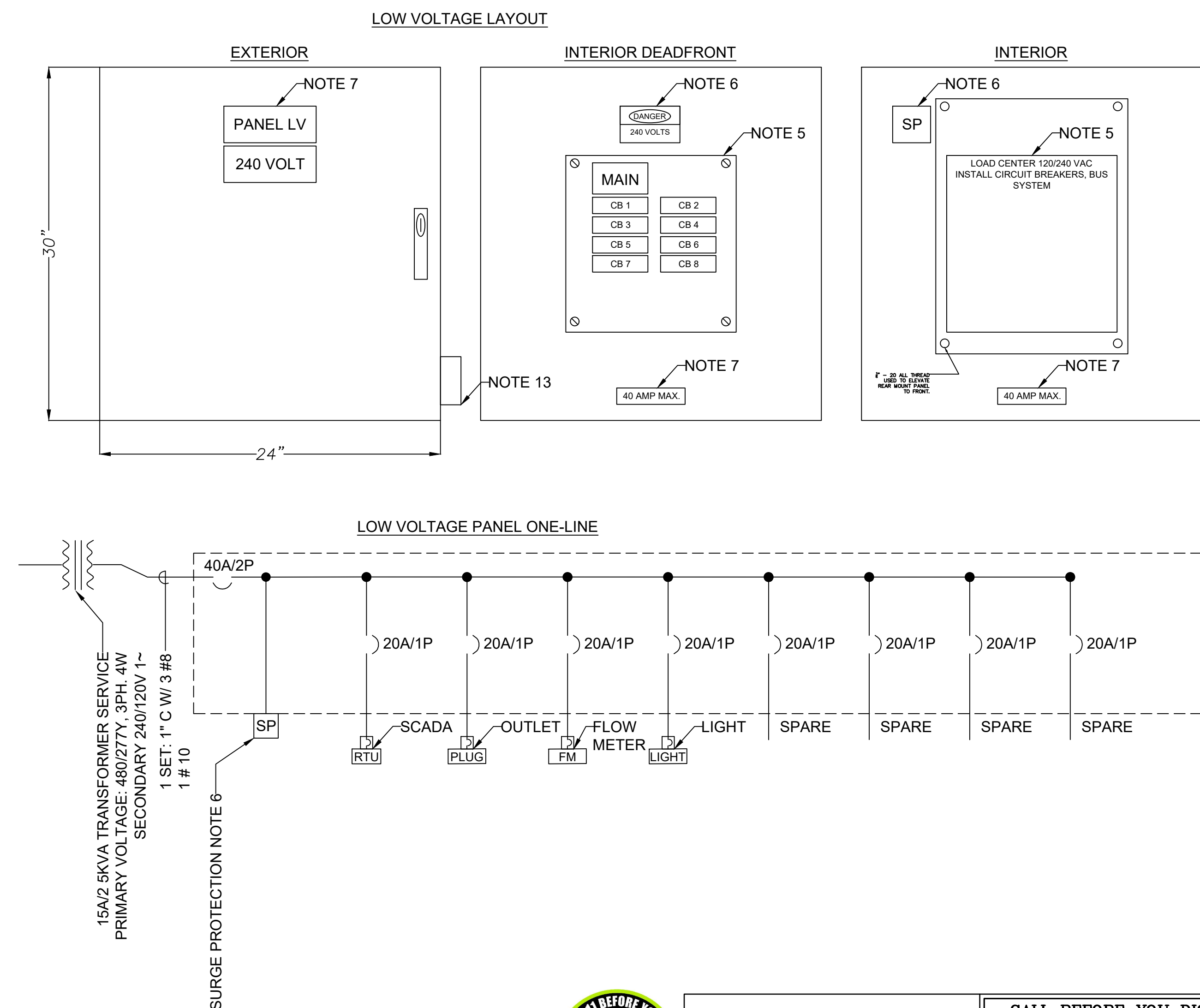
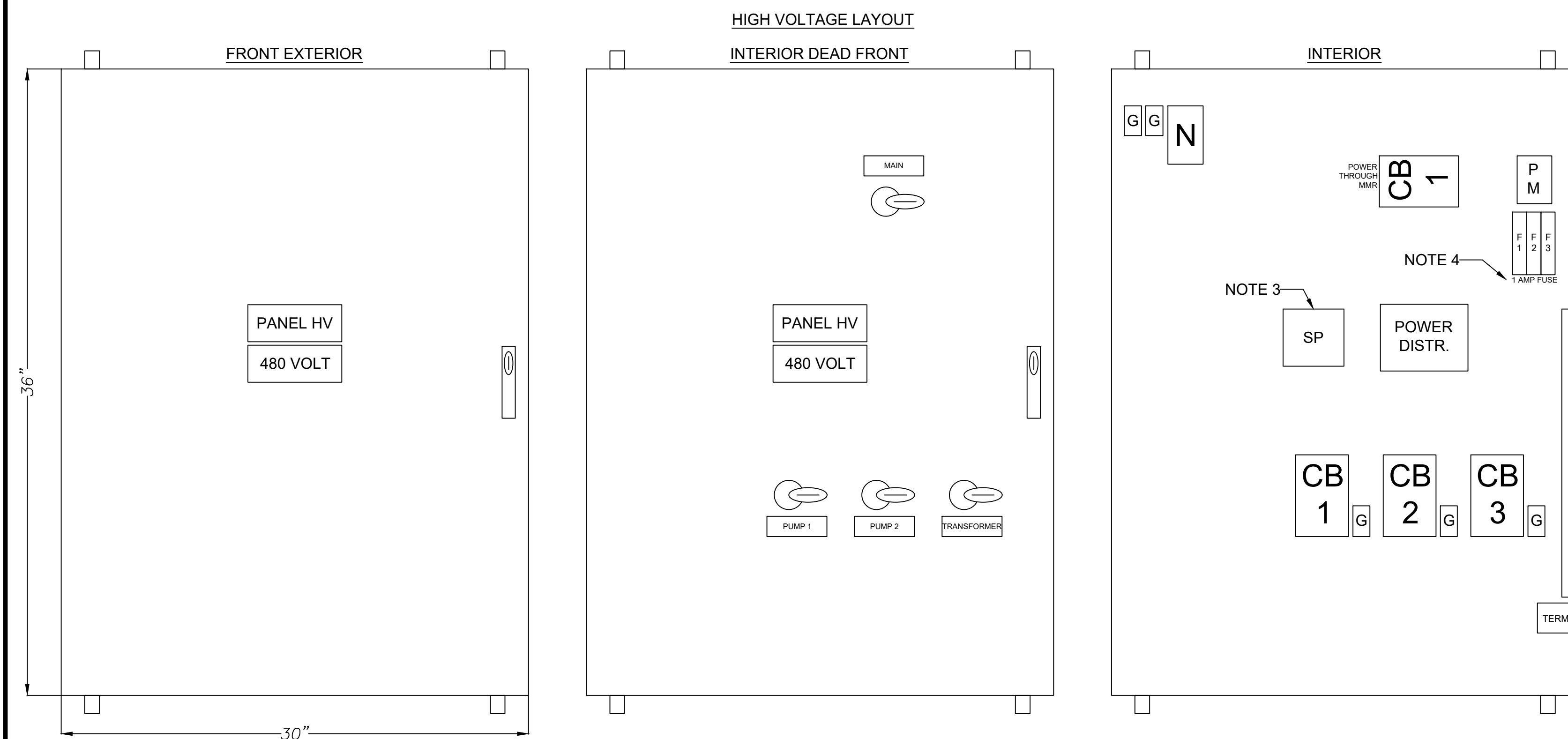


ALL SHEETS ARE REQUIRED TO BE STAMPED AND SIGNED BY ELECTRICAL P.E.



- GENERAL NOTES


1. ALL STARTERS TO BE VFD AS SPECIFIED.
2. PUMP DISCONNECT – 100A LOAD BREAK S.S. 304 W/AUX CONTACTS WHICH SHALL INTERRUPT VFD RUN CIRCUIT BEFORE SWITCH OPENS.
3. SURGE PROTECTION TO BE EQUIVALENT TO SQUARE D. SDSA-3650 SURGE ARRESTOR.
4. PHASE MONITOR TO BE FUSED WITH 1 AMP IN LINE FUSES. MODEL NO. PMPU MACROMATIC
5. SQUARE D QO PANEL INSTALLED INSIDE A STAINLESS STEEL ENCLOSURE W/ ALUMINUM DEAD FRONT AND RAISED REAR PANEL. DEAD FRONT CUT TO ALLOW BREAKER PASS THROUGH AND USAGE.
6. SURGE PROTECTOR TO BE EQUIVALENT TO SQUARE D. SDSA-1175.
7. SIGNS ON PANELS TO BE MADE OF PLASTIC, ENGRAVED AND GLUED ON.
8. DISCONNECT TO JBOX FOR PUMP IO CABLE. T.B. REQUIRED IN DISCONNECT FOR PUMP CABLE TO TERMINATE.
9. WIRE TO BE SIZED FOR BREAKER CURRENT PROTECTION, BASED ON PUMP AND DESIGN SIZING.
10. STANDARD 5KVA NEMA 3R TRANSFORMER.
11. ALL PANELS TO BE PAD LOCKABLE AND A HAVE 3-POINT LATCH SYSTEM.
12. NEMA 4X DANFOSS VFD FC-202 WITH 10 YEAR MANUFACTURER WARRANTY.
13. GFCI OUTLET WITH IN USE BUBBLE COVER, MOUNTED TO LOWER RIGHT EXTERIOR EDGE OF LOW VOLT PANEL.



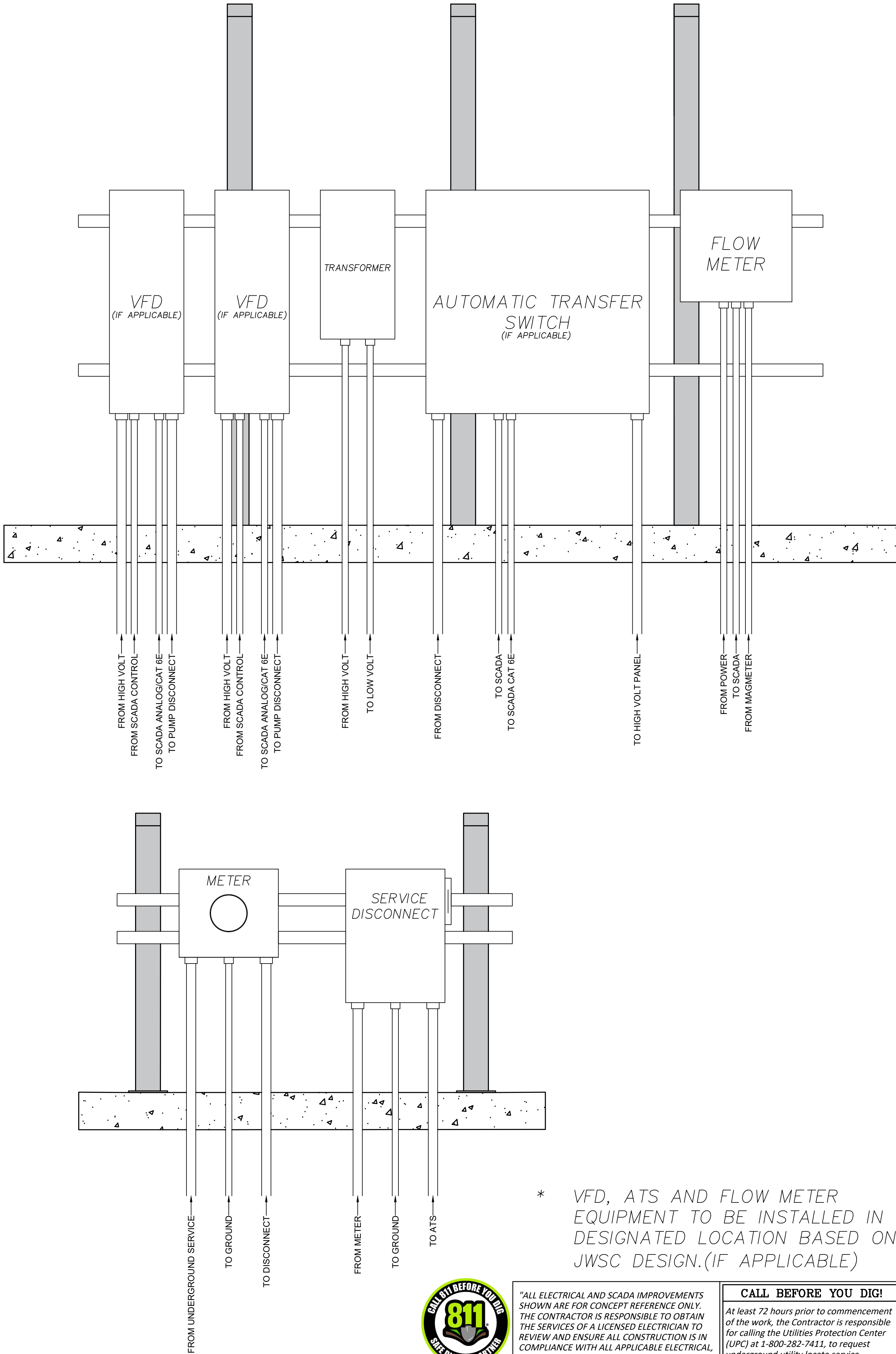
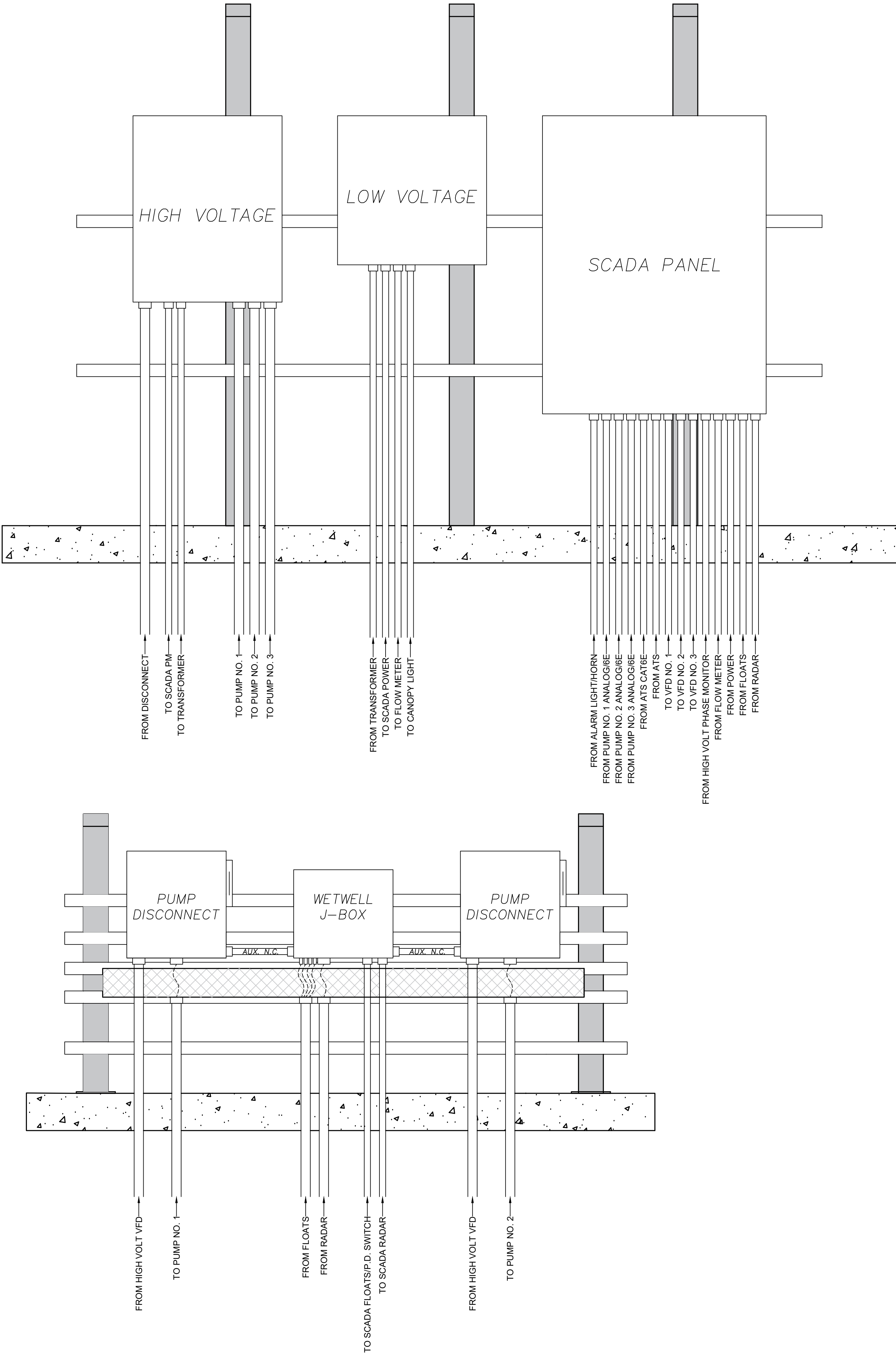
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|            |  |                  |  |   |  |      |  |            |  |                         |  |  |   |
|------------|--|------------------|--|---|--|------|--|------------|--|-------------------------|--|--|---|
| SHEET NO.: |  | FILE NO.:        |  | PROJECT NAME  |  | NO.: |  | DATE:      |  | COMMENTS:               |  | BRUNSWICK-GLYNN COUNTY<br>JOINT WATER & SEWER COMMISSION<br>PLANNING & CONSTRUCTION DIVISION<br><br>1703 Gloucester Street<br>Brunswick, Georgia 31520<br>(912) 261-7110 Phone<br>(912) 261-7178 Fax<br><a href="http://www.bgiwsc.org">www.bgiwsc.org</a> |  |
| DATE:      |  | JWSC PROJ. #2109 |  | GLYNN COUNTY, GEORGIA                                 |  | 1    |  | 12-13-2022 |  | REVISIONS - D. GRANTHAM |  |  |   |
| SCALE:     |  |                  |  | BRUNSWICK-GLYNN COUNTY JOINT WATER & SEWER COMMISSION |  | -    |  | -          |  | -                       |  |  |   |
| NTS        |  |                  |  |   |  | -    |  | -          |  | -                       |  |  |   |
| DRAWN BY:  |  |                  |  |   |  | -    |  | -          |  | -                       |  |  |   |
|            |  |                  |  |   |  | -    |  | -          |  | -                       |  |  |   |
|            |  |                  |  | JWSC STANDARD VFD ONE LINE                            |  |      |  | REVISIONS  |  |                         |  |  |   |
| OF         |  |                  |  | E-2   |  |      |  |            |  |                         |  |  |   |
|            |  |                  |  |   |  |      |  |            |  |                         |  |  |   |

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\* VFD, ATS AND FLOW METER EQUIPMENT TO BE INSTALLED IN DESIGNATED LOCATION BASED ON JWSC DESIGN.(IF APPLICABLE)



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| NO. | DATE       | COMMENTS                |
|-----|------------|-------------------------|
| 1   | 12-13-2022 | REVISIONS - D. GRANTHAM |
|     |            |                         |
|     |            |                         |
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PROJECT NAME  
GLYNN COUNTY, GEORGIA  
BRUNSWICK-GLYNN COUNTY JOINT WATER & SEWER COMMISSION

|                            |                    |            |               |
|----------------------------|--------------------|------------|---------------|
| FILE NO.: JWSC PROJ. #2105 | DATE: MAR 27, 2023 | SCALE: NTS | DRAWN BY: NTS |
| SHEET NO.: E-3             |                    |            |               |
| OF 4                       |                    |            |               |



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**ELECTRICAL REQUIREMENTS:**

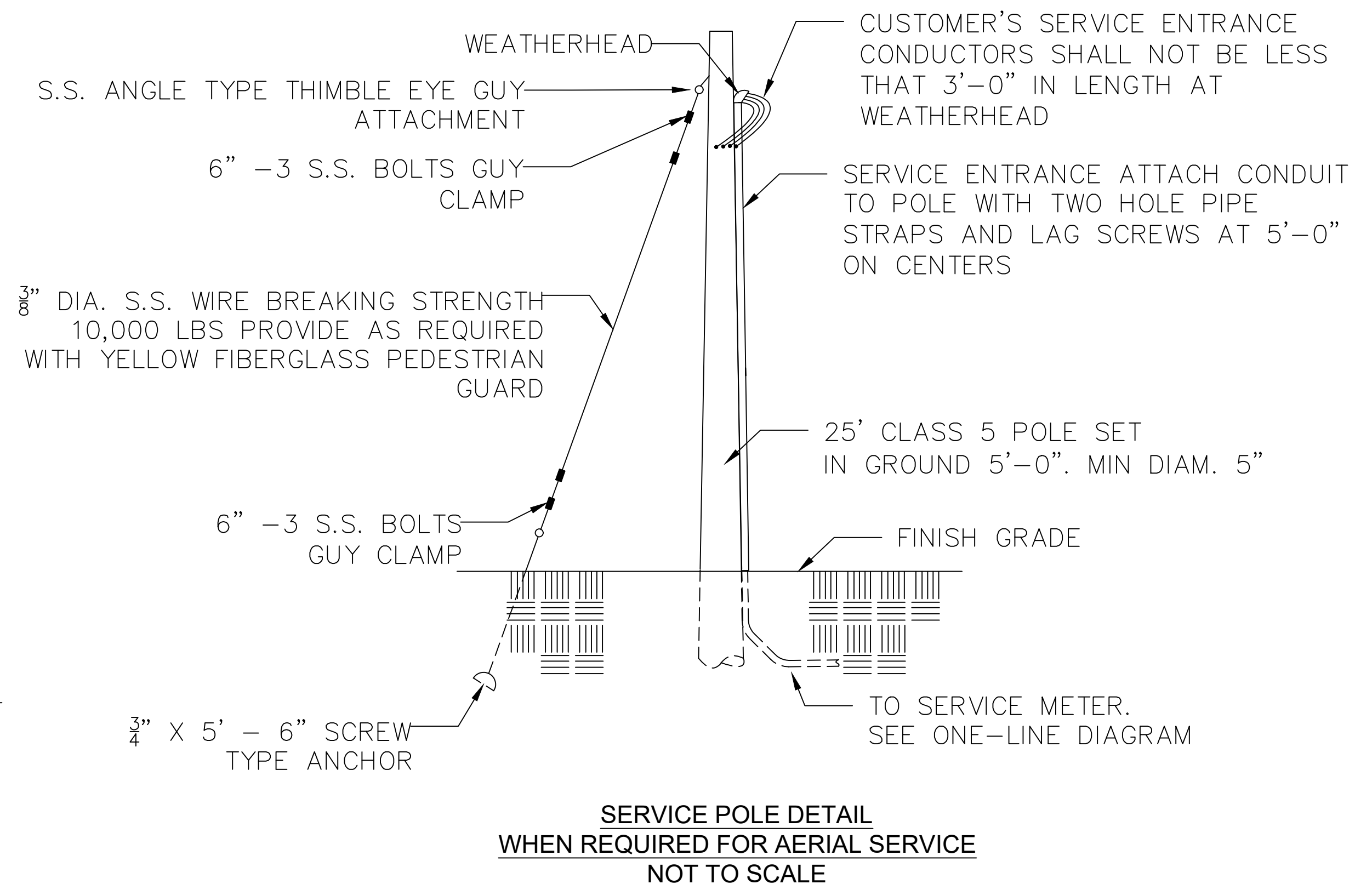
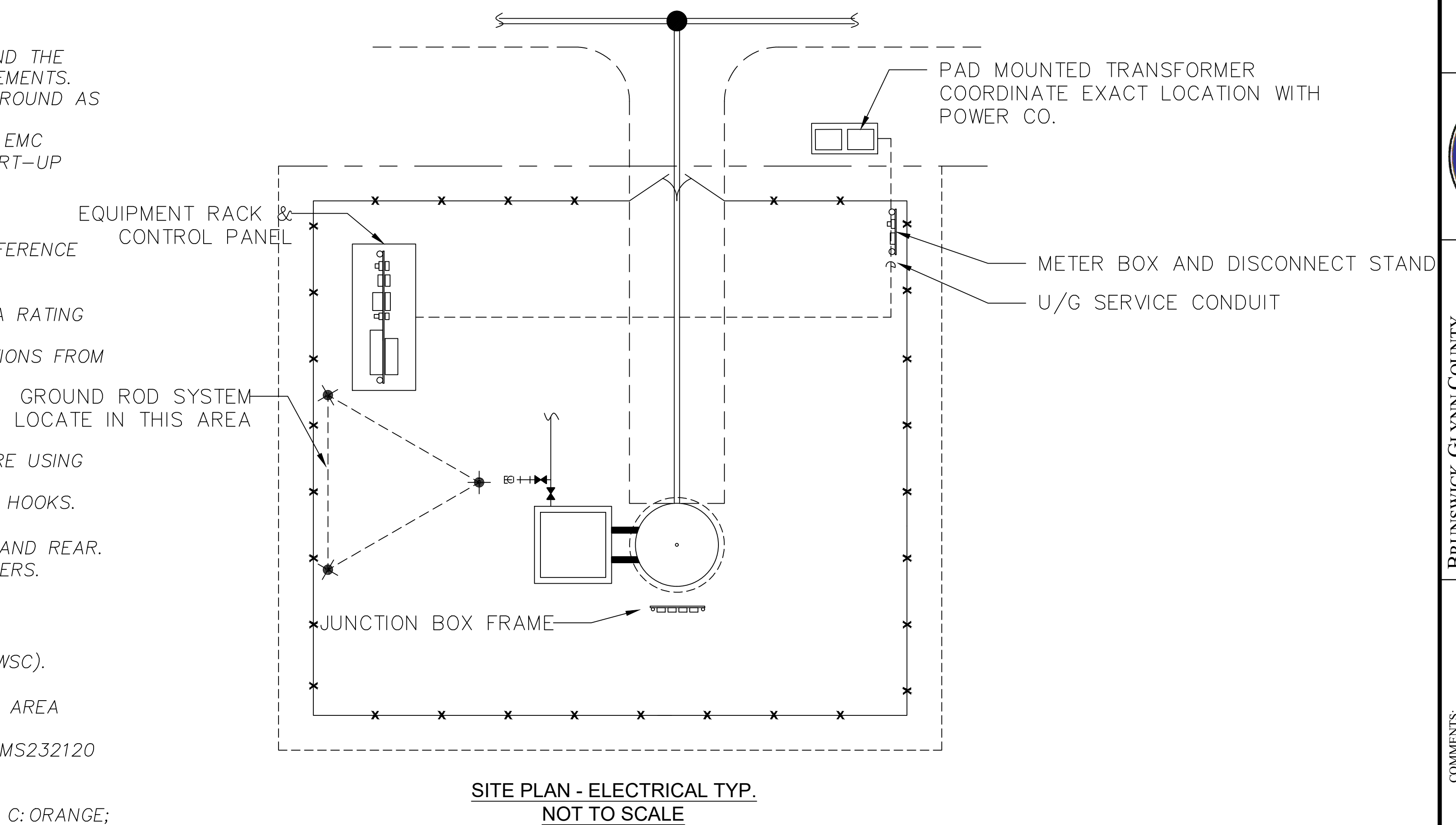
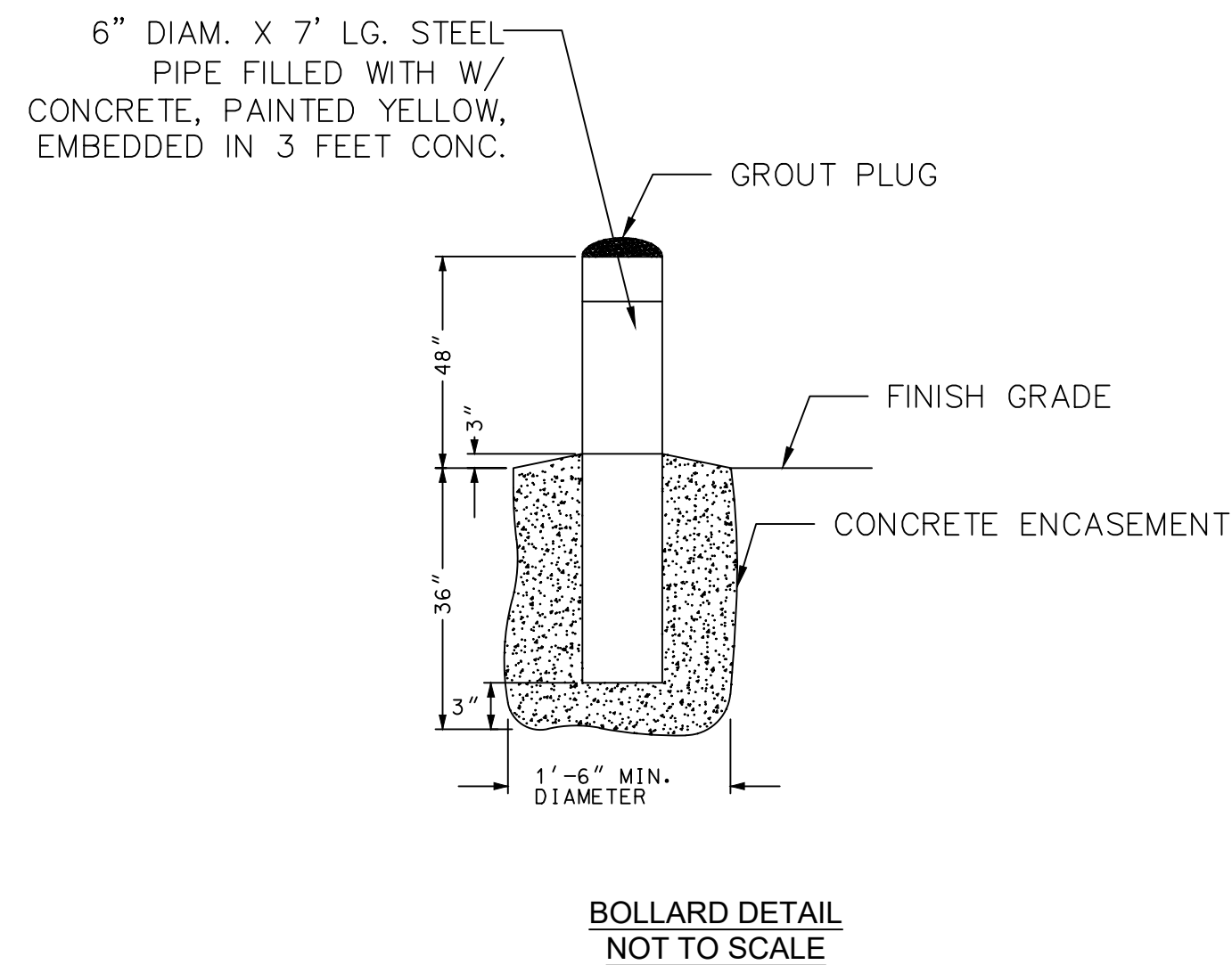
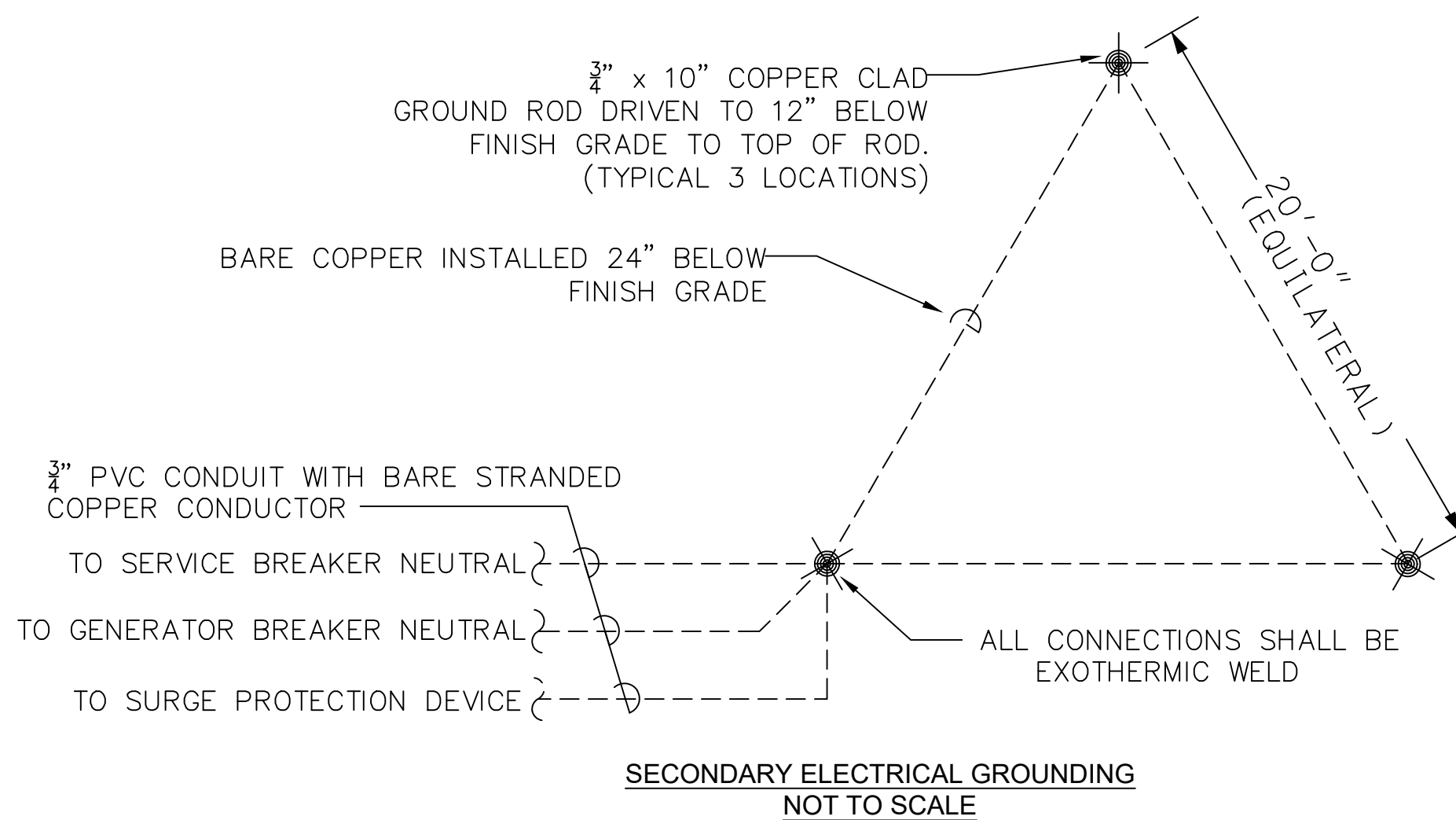
1. CONTACT AND COORDINATE WITH LOCAL ELECTRICAL UTILITY SERVING THE PARTICULAR AREA OF WORK.
2. THE EXACT LOCATION OF SERVICE SHALL BE COORDINATED IN THE FIELD WITH OTHER WORK ON THE PROJECT SITE AND THE ELECTRICAL UTILITY. PROVIDE AERIAL OR UNDERGROUND SERVICE AS REQUIRED BY THE UTILITY AND PROJECT REQUIREMENTS.
3. THE SERVICE METER SHALL BE PROVIDED IN ACCORDANCE TO THE ELECTRICAL UTILITY STANDARDS. PROVIDE METER GROUND AS REQUIRED.
4. SCADA PANEL WILL BE AVAILABLE FROM JWSC FOR PURCHASE. START-UP AND TERMINATION WILL BE COMPLETED BY EMC (205-661-3998). PLEASE ALLOW FOR TIME TO BE PLACED ON SCHEDULE WITH EMC. COORDINATE WITH EMC FOR START-UP AND TESTING.
5. DANFOSS VFD NEMA 4X FC-202 REQUIRED WITH 10 YEAR WARRANTY FOR JWSC. (IF APPLICABLE)
6. ALL CONDUIT INSTALLED SHALL BE ACCORDING TO NEC AND UTILIZING THE BEST PATH POSSIBLE WITH MINIMAL INTERFERENCE WITH OTHER UTILITIES.
7. CONTRACTOR TO INSTALL DETECTABLE WARNING TAPE 12" ABOVE ALL UNDERGROUND CONDUIT.
8. ALL CONDUITS ENTERING NEMA 4X ENCLOSURES SHALL BE TERMINATED WITH THREADED HUBS TO MAINTAIN THE NEMA RATING OF THE ENCLOSURE UNLESS NOTED OTHERWISE.
9. FOR TERMINATION OF CONDUITS AT JUNCTION BOXES AND PUMP DISCONNECTS PROVIDE SEALING HUBS. FOR CONNECTIONS FROM WETWELL, PROVIDE CORDGRIPS ACCORDING TO WIRE SIZE.
10. SEAL ALL CONDUITS WITH ELECTRICAL DUCT SEAL.
11. ALL SWITCH OPERATING HANDLES SHALL BE MAXIMUM OF 66-INCHES ABOVE FINISH GRADE.
12. FURNISH STAINLESS STEEL BOLTS, NUTS AND WASHERS FOR ALL EQUIPMENT.
13. POSITION ELECTRICAL ALARM LIGHT TO BE SEEN FROM THE NEAREST ROAD. ATTACHED TO CANOPY LEGS OR STRUCTURE USING ONLY S.S. HARDWARE.
14. PROVIDE IN WETWELL HATCH WINDOW A STAINLESS STEEL BRACKET FOR SUPPORT OF ALL CABLES WITH A MINIMUM 5 HOOKS.
15. METER EQUIPMENT TO BE MOUNTED AT A MIN. 3'-6" AND MAX. 5'-6" ABOVE FINAL GRADE.
16. AIR GAP BOX TO BE A MIN. OF 12" X 12" X 60" ALUMINUM ANGLE FRAME WITH ALUMINUM EXPANDED METAL FRONT AND REAR. FRONT HINGED ON BOTTOM. FLAT ALUMINUM SHEET ON BOTTOM AND TOP. WEEP HOLES PLACED ON ALL FOUR CORNERS.
17. WETWELL CONDUITS STUB 1" INTO AIR GAP CAGE TYP.
18. MINIMUM SPACING BETWEEN WETWELL AND DISCONNECTS IS 6'-0".
19. CABLES LEADS TO BE A MINIMUM OF 50'-0" IN LENGTH.
20. ATS TO BE ABB TRUEONE WITH LEVEL 4 CONTROLLER PAIRED WITH CAM-LOCK DOCKING STATION. (IF REQUIRED BY JWSC).
21. FLOATS TO BE ROTOFLOAT MERCURY TYPE MODEL "S" 60FT CABLE TYP.
22. INSTALLATION OF SEAL FAIL OR THERMAL RELAYS COORDINATED BY ELECTRICAL CONTRACTOR AND EMC INSTALLATION AREA INSIDE THE SCADA PANEL OR WET WELL JUNCTION BOX.
23. EQUIPMENT CANOPY LIGHTING SHALL BE SWITCHED WITH OFF/ON OUTDOOR RATED, LIGHTS TO BE LITHONIA 6500K LED OR APPROVED EQUAL SECURED TO SHELTER STRUCTURE WITH 0 DEGREE F RATED ELECTRONIC BALLAST.
24. ALL CONDUITS TO BE SCHEDULE 40 PVC.
25. ALL CONDUCTORS TO BE STRANDED COPPER, TYPE THWN. COLOR CODE: 480/277V: PH A: BROWN; PH B: YELLOW; PH C: ORANGE; NEUTRAL: GRAY; 230/115V - PH A: BLACK; PH C: RED; NEUTRAL: WHITE; GROUND: GREEN.

**TERMINAL ENCLOSURE NOTES:**

1. PROVIDE TERMINALS AS REQUIRED FOR POWER AND SIGNAL CABLE (FLOAT SWITCH) TERMINATIONS. PROVIDE 10% SPARE TERMINALS. MAKE CONNECTIONS PER PUMP MFR'S RECOMMENDATIONS. MAINTAIN 3" MIN. AC-DC SEPARATION IN TERMINAL ENCLOSURE. ROUTE CABLES WITH CORD GRIPS FOR WETWELL ORIGINATION TERMINATIONS. PVC CONDUIT TO COORDINATED PANELS, PLUG ALL HOLES WITH GROMMETS.
2. MINIMUM SIZE OF THE JUNCTION BOX SHALL BE 12"x12"x6". FURNISH NEMA 4X STAINLESS STEEL JUNCTION BOX WITH 1/4 TURN DOOR LATCH AND ALUMINUM BACK PLATE.

**SCADA NOTES:**

1. REQUIRES ONE 110V CIRCUIT FROM LOW VOLTAGE PANEL. HORN AND EMERGENCY LIGHT TO BE INSTALLED IN VISUAL LOCATION FROM ROADWAY.
2. VEGA C-21 RADAR TO BE INSTALLED IN WET WELL USING S.S. HARDWARE.



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**BRUNSWICK-GULF INN COUNTY  
JOINT WATER & SEWER COMMISSION  
PLANNING & CONSTRUCTION DIVISION**

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Brunswick, Georgia 31520  
(912) 261-7110 Phone  
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[www.bgjwsc.org](http://www.bgjwsc.org)

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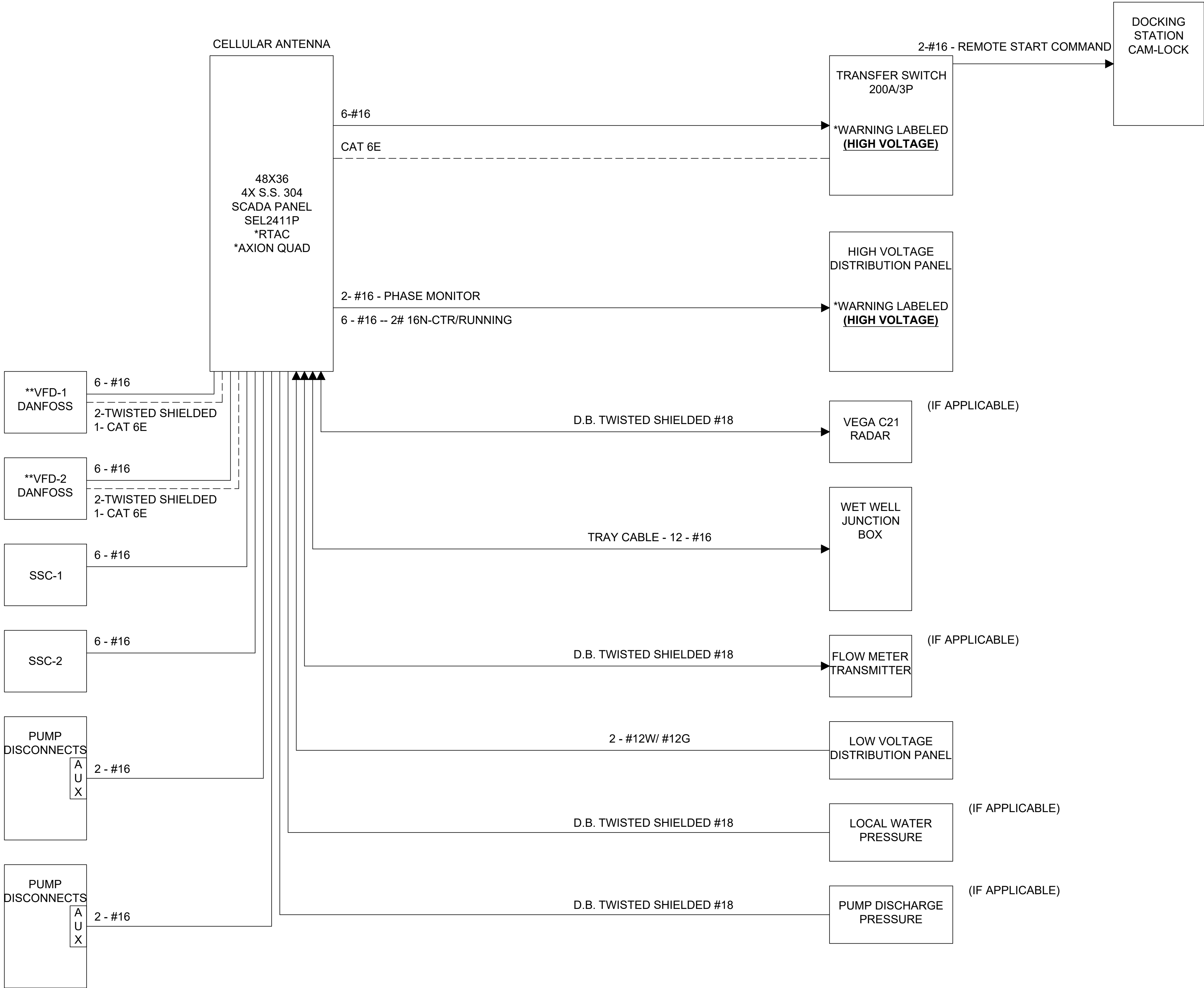
| PROJECT NAME   |
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| GLYNN COUNTY, GEORGIA                                  |
| BBRUNSWICK-GLYNN COUNTY JOINT WATER & SEWER COMMISSION |
| ELECTRICAL DETAILS                                     |

|                    |
|--------------------|
| JWSC PROJ. #2105   |
| DATE: MAR 27, 2023 |
| SCALE: NTS         |
| DRAWN BY:          |

HEET NO.:  
**E-4**



ALL SHEETS ARE REQUIRED TO BE STAMPED AND SIGNED BY ELECTRICAL P.E.



- INSTRUMENTATION NOTES
- \* ALL CONDUITS FOR INSTRUMENTATION SHALL BE MIN. 3/4".
  - \* 60% CONDUIT FILL.
  - \* CONTRACTOR TO FOLLOW LATEST NEC RULING AT TIME OF CONSTRUCTION.
  - \* PUMP DISCONNECTS SHALL BE RATED 4X OR 3R IN S.S. 304 MIN. USE WITH VFD'S SHALL INCLUDE AUX CONTACTS.
  - \* PUMP SAFE, THERMAL & SEAL FAIL RELAYS NEED TO BE FIELD COORDINATED WITH INTEGRATORS AND EITHER INSTALLED IN THE SCADA PANEL OR WET WELL JUNCTION BOX.
  - \* PHASE MONITOR TO BE MACROMATIC PMPU AND WIRED TO THE SCADA PANEL FROM THE HIGH VOLT PANEL IN DEDICATED CONDUIT.
  - \* RUNNING STATUS CURRENT TRANSFORMER INSTALLED ON LOAD SIDE OF (SSC) SOLID STATE CONTACTORS. AND SOFT STARTS.

- SITE REQUIREMENT'S BASED ON DESIGN
- \* VEGA C21 RADAR TO BE FIELD INSTALLED BY CONTRACTOR AND PROGRAMMED AND SCALED BY INTEGRATORS.
  - \* ROSEMOUNT FLOW METERS TO BE CONNECTED TO SCADA AND SCALING FACTOR TO BE COORDINATED WITH INTEGRATORS.
  - \* LOCAL PRESSURE TRANSDUCER INSTALLED AND CONNECTED TO SCADA AT SITES REQUIRED BY JWSC.
  - \* PUMP DISCHARGE PRESSURE TRANSDUCERS TO BE INSTALLED AND CONNECTED TO SCADA AT SITES REQUIRED BY JWSC.
  - \* ATS TO BE ABB TRUEONE WITH LEVEL 4 CONTROLLER, CAT 6E AND DRY CONTACTS TO BE INSTALLED AND COORDINATED WITH INTEGRATORS.
  - \* VFD'S TO BE DANFOSS FC-202 NEMA 4X, CAT 6E AND DRY CONTACTS TO BE INSTALLED AND COORDINATED WITH INTEGRATORS.

- ELECTRONIC MACHINE CONTROL (EMC)
- \* TO PROVIDE SCHEDULED TERMINATION AND START-UP SERVICES.
  - \* LOCATION REQUIRING MMR'S OR RTAC'S THE CONFIGURATION SHALL BE COMPLETED BY INTEGRATORS. ALL INSTALLATION REQUIREMENTS SHALL BE COORDINATED WITH INTEGRATORS.

| WET WELL T.B.        |                                      |
|----------------------|--------------------------------------|
| TERMINAL # AND LABEL |                                      |
| 1.                   | 336P - 24V+                          |
| 2.                   | 336P - 24V+                          |
| 3.                   | 604A - LAG FLOAT                     |
| 4.                   | 606A - LEAD FLOAT                    |
| 5.                   | 608A - STOP FLOAT                    |
| 6.                   | 612A - HIGH FLOAT                    |
| 7.                   | 802A - PUMP 1 THERMAL                |
| 8.                   | 804A - PUMP 2 THERMAL                |
| 9.                   | 827A - PUMP 1 SEAL FAIL              |
| 10.                  | 829A - PUMP 2 SEAL FAIL              |
| 11.                  | GND                                  |
| 12.                  | SPARE                                |
| 13.                  | 952P - WETWELL LEVEL TRANSMITTER (+) |
| 14.                  | 952M - WETWELL LEVEL TRANSMITTER (-) |
| 15.                  | GND - SHIELD                         |



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| COMMENTS: |       |
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PROJECT NAME  
GLYNN COUNTY, GEORGIA  
BRUNSWICK-GLYNN COUNTY JOINT WATER & SEWER COMMISSION  
JWSC TYPICAL INSTRUMENTATION

FILE NO.: JWSC PROJ. #2109  
DATE: MAR 27, 2023  
SCALE: NTS  
DRAWN BY:

SHEET NO.:  
**I-1**  
OF 1

## GENERAL NOTES:

1. PRECAST CONCRETE TANKS TO BE MANUFACTURED IN ACCORDANCE WITH ASTM C1613 "STANDARD SPECIFICATION FOR PRECAST CONCRETE GREASE INTERCEPTOR TANKS.
2. THE INTERIOR SURFACES OF THE TANK SHALL BE SEALED WITH CONSEAL CS55 OR AN EQUIVALENT MOISTURE BARRIER SEAL. THE TANK INTERIOR SHALL BE LIGHT GRAY OR WHITE IN COLOR.
3. ALL PIPE AND FITTINGS SHALL BE TYPE I SCHEDULE 40 PVC MEETING THE REQUIREMENTS OF ASTM D2665.
4. INLET AND OUTLET PIPES SHALL BE SEALED WITH A CAST IN PLACE LOW-PRESSURE PIPE SEAL OR EQUIVALENT NEOPRENE GASKET, FLEXIBLE SILICON ADHESIVE OR CEMENT.
5. THE SAMPLE PORT SHALL CONSIST OF A OR 6"X6" PVC CROSS. VALVE BOX TO HAVE THE WORD "SEWER" STAMPED ON THE LID.
6. ACCESS TUBES OR RISERS SHALL BE HIGH DENSITY POLYETHYLENE (HDPE) PIPE CONFORMING TO ASTM D1248 (TYPE III C, CATEGORY 5, P34) OR PRECAST CONCRETE SEALED AS NOTED ABOVE.
7. MANHOLE FRAME AND COVERS SHALL BE MANUFACTURED FROM DUCTILE IN ACCORDANCE WITH ISO 1083, RATED AT H20 LOADING.
8. SEE SECTION 5 OF THE JWSC STANDARDS FOR WATER AND SEWER DESIGN AND CONSTRUCTION.

NOT TO SCALE



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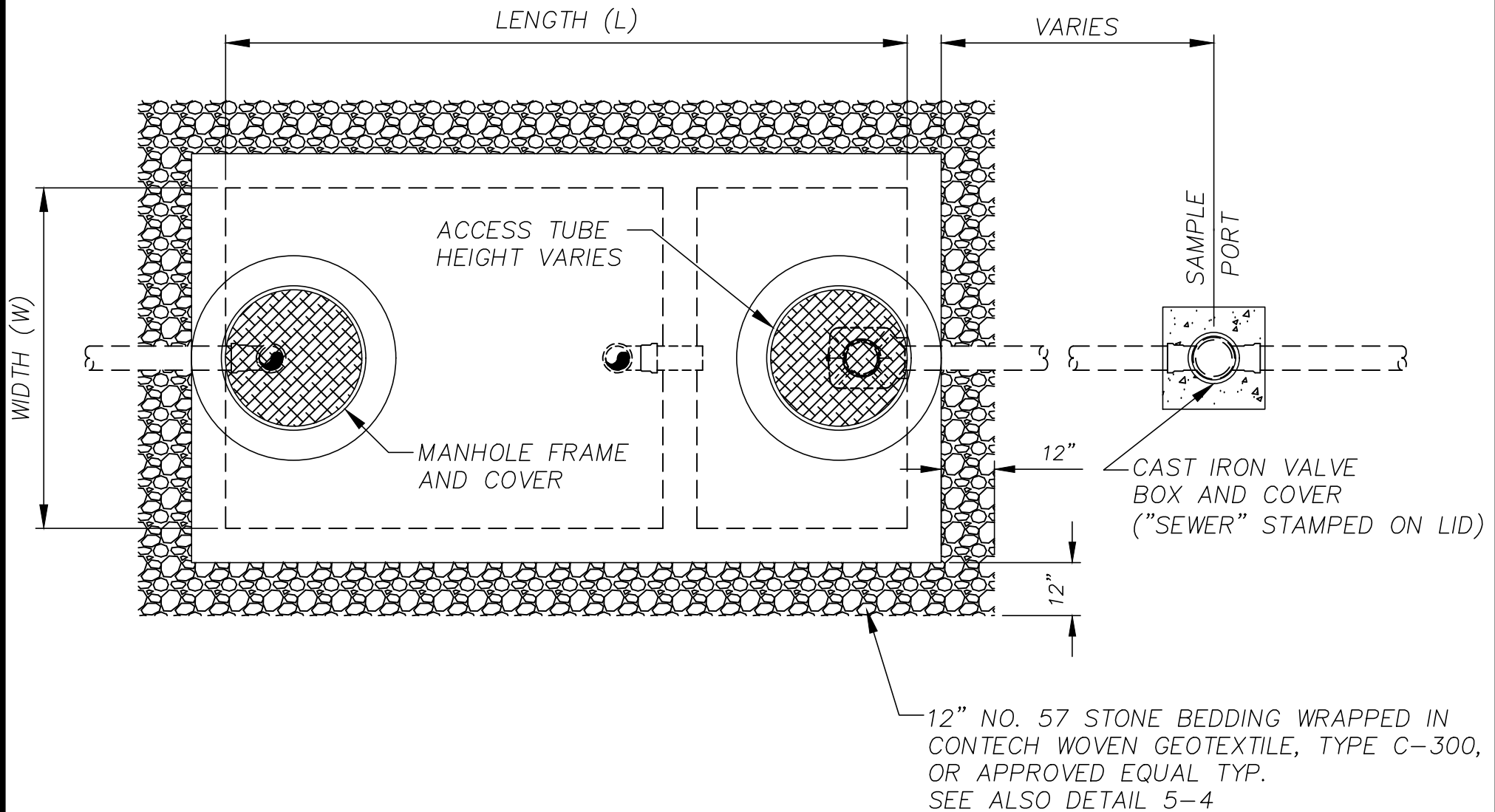
## PRECAST GREASE TRAP GENERAL NOTES

JWSC 5-1

|                  |               |
|------------------|---------------|
| DESIGNED: BGJWSC | DRAWN: HPATEL |
| DATE: 05/26/2022 | SCALE: NTS    |

| BY | REVISION | DATE |
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## PRECAST GREASE TRAP TOP PLAN

JWSC 5-2

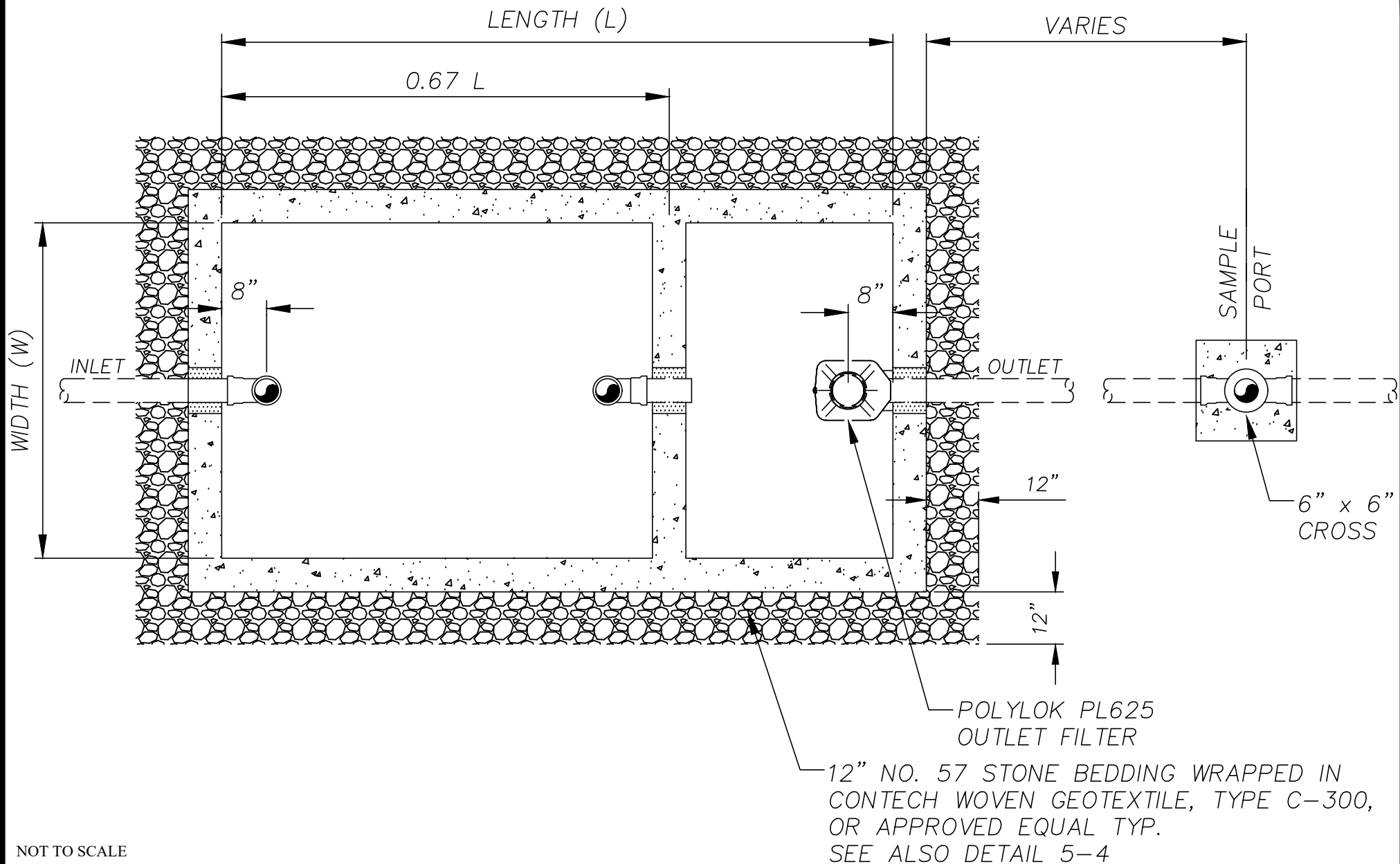
DESIGNED: BGJWSC

DRAWN: HPATEL

DATE: 05/26/2022

SCALE: NTS

| BY | REVISION | DATE |
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## PRECAST GREASE TRAP WALL PLAN

JWSC 5-3

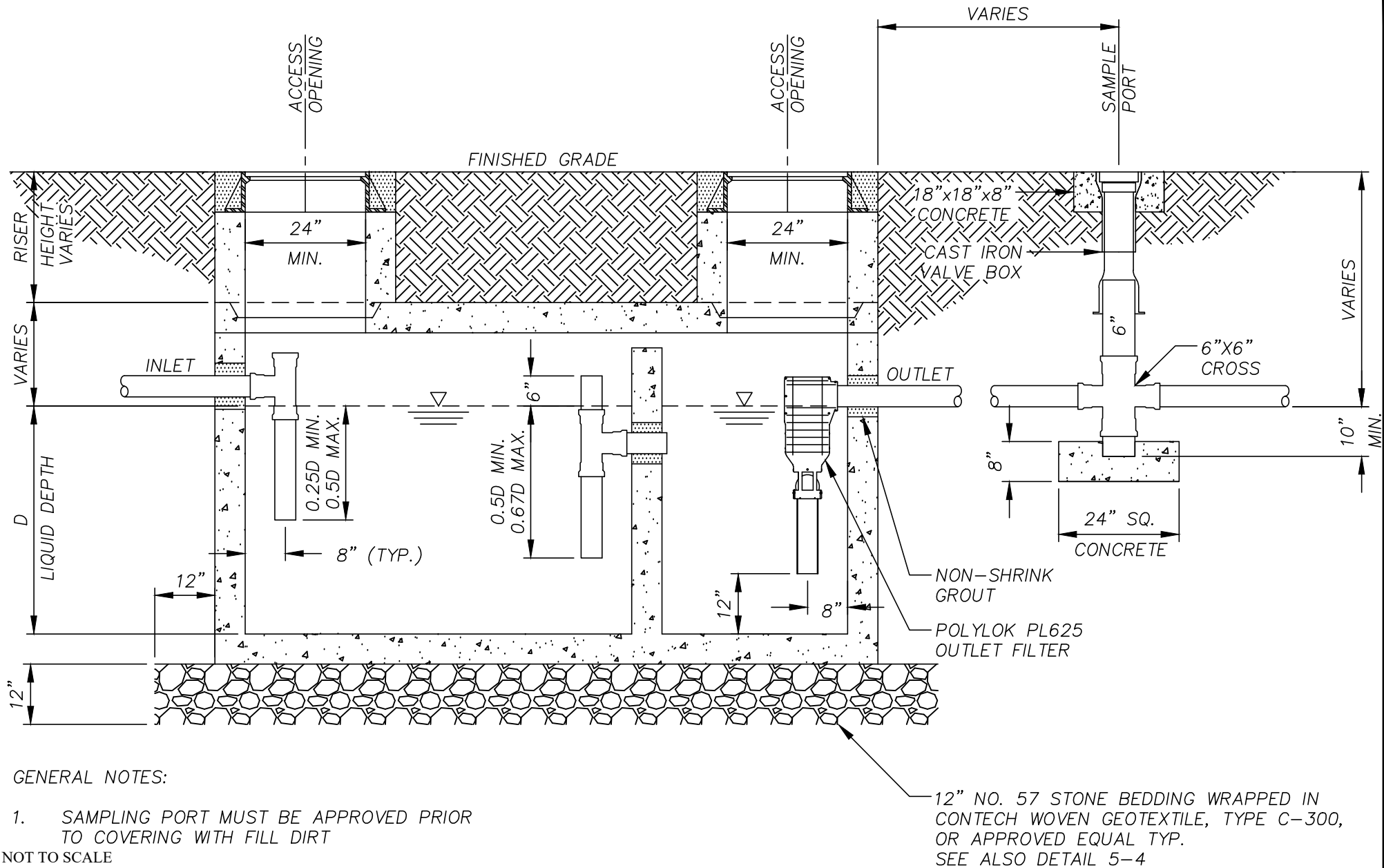
DESIGNED: BGJWSC

DRAWN: HPATEL

DATE: 05/26/2022

SCALE: NTS

| BY | REVISION | DATE |
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Phone: (912) 261-7110

Fax: (912) 261-7178

## **PRECAST GREASE TRAP SECTION**

**JWSC 5-4**

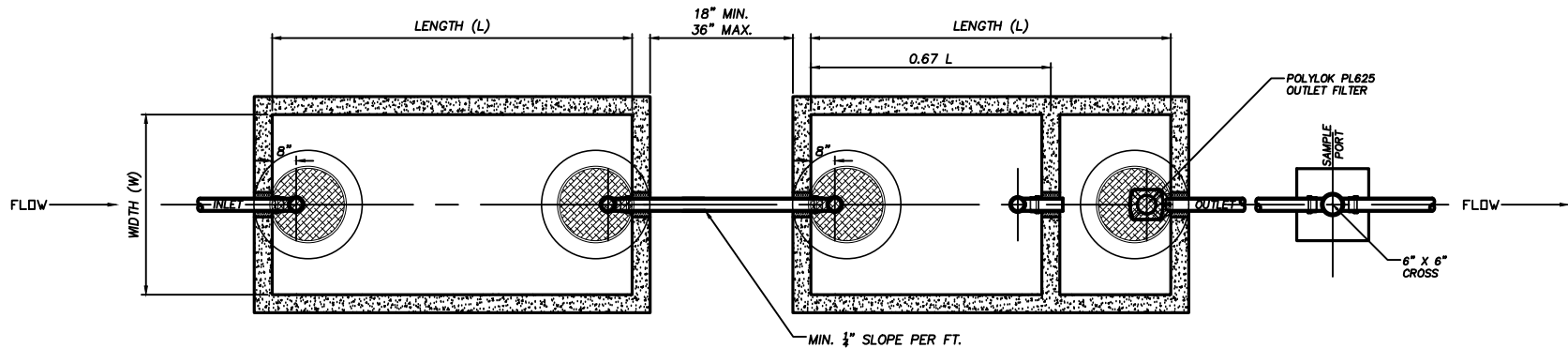
DESIGNED: BGJWSC

DRAWN: HPATEL

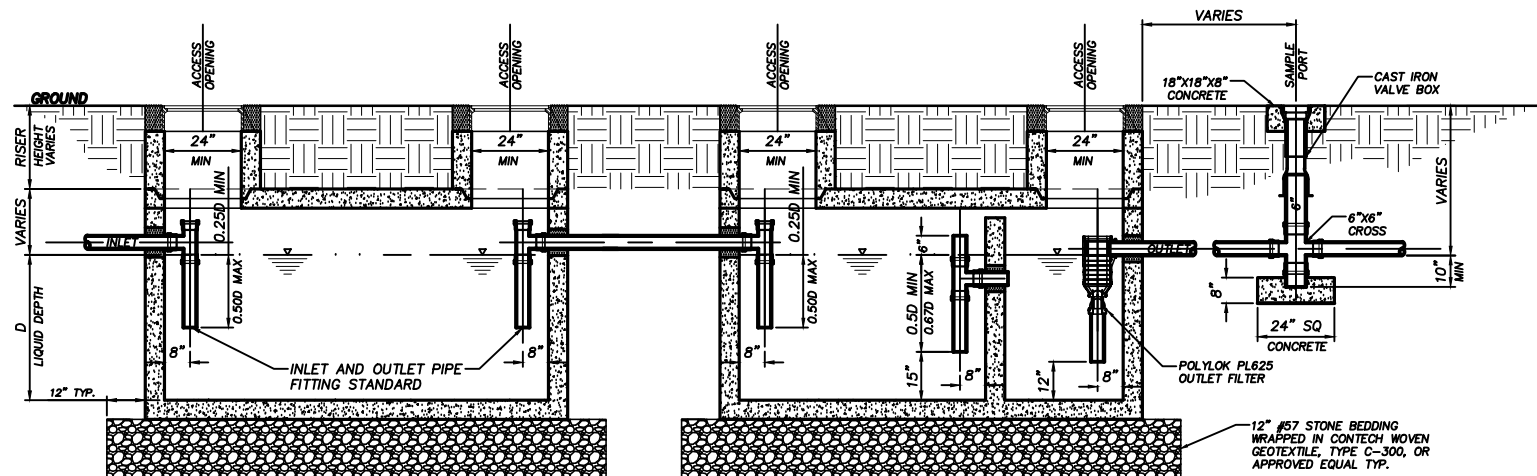
DATE: 05/26/2022

SCALE: NTS

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**PLAN**



**SECTION**

**GENERAL NOTES:**

PRECAST CONCRETE TANKS TO BE MANUFACTURED IN ACCORDANCE WITH ASTM C1613 "STANDARD SPECIFICATION FOR PRECAST CONCRETE GREASE INTERCEPTOR TANKS.

THE INTERIOR SURFACES OF THE TANK SHALL BE SEALED WITH CONSEAL CSS5 OR AN EQUIVALENT MOISTURE BARRIER SEAL. THE TANK INTERIOR SHALL BE LIGHT GRAY OR WHITE IN COLOR.

ALL PIPE AND FITTINGS SHALL BE TYPE I SCHEDULE 40 PVC MEETING THE REQUIREMENTS OF ASTM D2665.

INLET AND OUTLET PIPES SHALL BE SEALED WITH A CAST IN PLACE LOW-PRESSURE PIPE SEAL OR EQUIVALENT NEOPRENE GASKET, FLEXIBLE SILICON ADHESIVE OR CEMENT.

THE SAMPLE PORT SHALL CONSIST OF A 6"x6" PVC CROSS. VALVE BOX TO HAVE THE WORD "SEWER" STAMPED ON THE LID.

ACCESS TUBES OR RISERS SHALL BE HIGH DENSITY POLYETHYLENE (HDPE) PIPE CONFORMING TO ASTM D1248 (TYPE III C, CATEGORY 5, P34) OR PRECAST CONCRETE SEALED AS NOTED ABOVE.

MANHOLE FRAME AND COVERS SHALL BE MANUFACTURED FROM DUCTILE IN ACCORDANCE WITH ISO 1083, RATED AT H20 LOADING.

SEE SECTION 5 OF THE JWSC STANDARDS FOR WATER AND SEWER DESIGN AND CONSTRUCTION.

12" #57 STONE BEDDING WRAPPED IN CONTECH WOVEN GEOTEXTILE, TYPE C-300, OR APPROVED EQUAL TYP.

NOT TO SCALE



## BRUNSWICK-GLYNN JOINT WATER & SEWER COMMISSION

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Phone: (912) 261-7110

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## PRECAST GREASE TRAP IN SERIES

JWSC 5-5

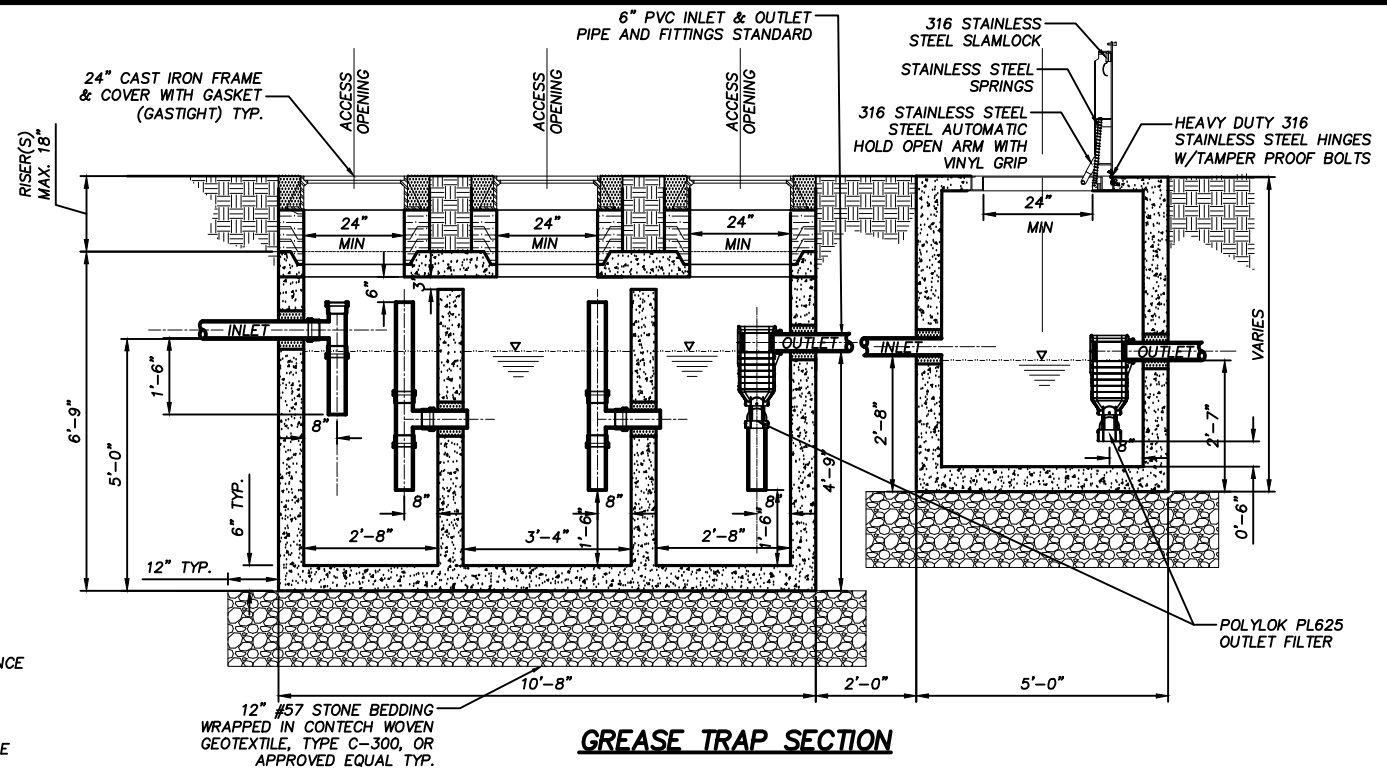
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DATE: 05/26/2022

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#### GENERAL NOTES:

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THE INTERIOR SURFACES OF THE TANK SHALL BE SEALED WITH CONSEAL CS55 OR AN EQUIVALENT MOISTURE BARRIER SEAL. THE TANK INTERIOR SHALL BE LIGHT GRAY OR WHITE IN COLOR.

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#### GRADE RINGS/RISERS MODEL NUMBERS:

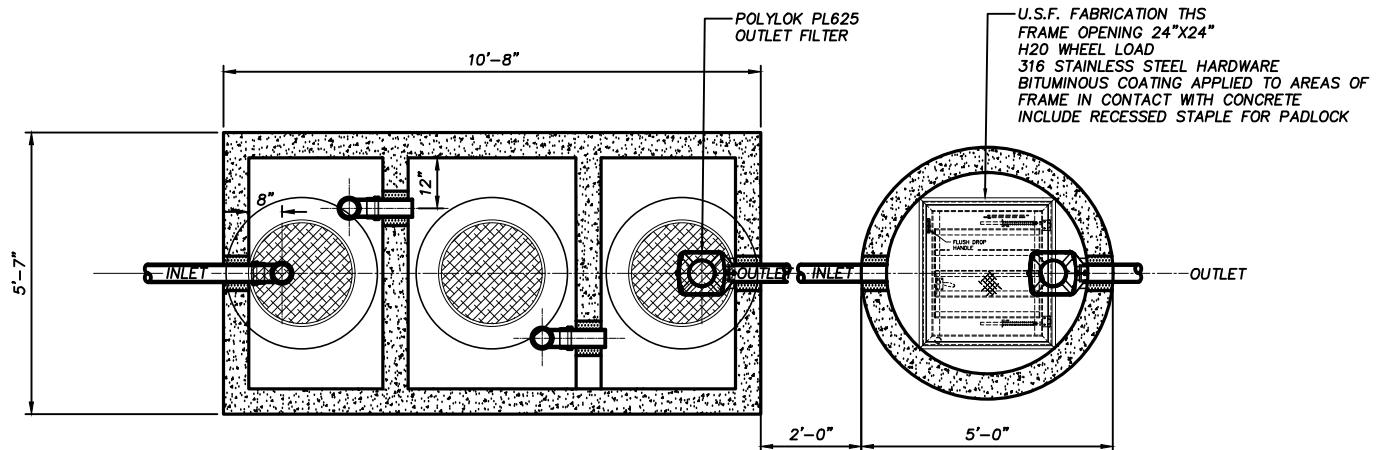
3-INCH: 2432 GR-03 GRADE RING

6-INCH: 2432 GR-06 GRADE RING

12-INCH: 2432 GR-12 GRADE RING

APPROVAL OF THIS TYPE OF INSTALLATION MUST COME FROM THE JWSC PRE-TREATMENT COMPLIANCE COORDINATOR.

NOT TO SCALE



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## FUGITIVE GREASE TRAP 1,500 GALLON

JWSC 5-6

DESIGNED: BGJWSC

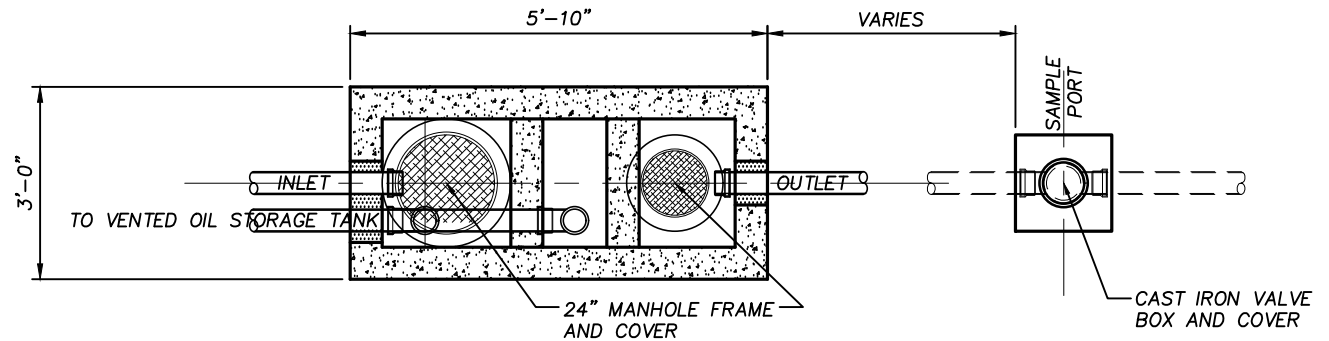
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DATE: 05/26/2022

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#### GENERAL NOTES:

PRECAST CONCRETE TANKS TO BE MANUFACTURED IN ACCORDANCE WITH ASTM C1613 "STANDARD SPECIFICATION FOR PRECAST CONCRETE GREASE INTERCEPTOR TANKS.

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ALL PIPE AND FITTINGS SHALL BE TYPE I SCHEDULE 40 PVC MEETING THE REQUIREMENTS OF ASTM D2665.

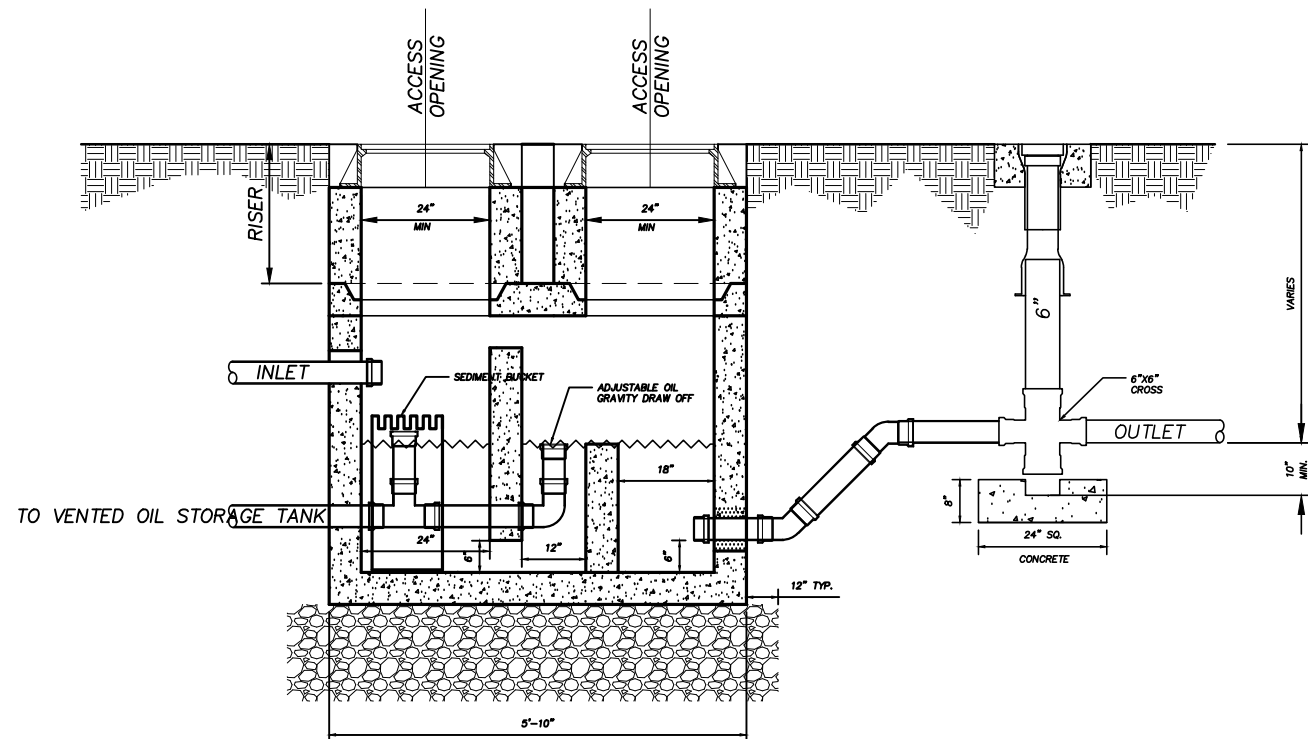
INLET AND OUTLET PIPES SHALL BE SEALED WITH A CAST IN PLACE LOW-PRESSURE PIPE SEAL OR EQUIVALENT NEOPRENE GASKET, FLEXIBLE SILICON ADHESIVE OR CEMENT.

ACCESS TUBES OR RISERS SHALL BE HIGH DENSITY POLYETHYLENE (HDPE) PIPE CONFORMING TO ASTM D1248 (TYPE III C, CATEGORY 5, P34) OR PRECAST CONCRETE SEALED AS NOTED ABOVE.

MANHOLE FRAME AND COVERS SHALL BE MANUFACTURED FROM DUCTILE IN ACCORDANCE WITH ISO 1083, RATED AT H20 LOADING.

12" #57 STONE BEDDING WRAPPED IN CONTECH WOVEN GEOTEXTILE, TYPE C-300, OR APPROVED EQUAL TYP.

SEE SECTION 5 OF THE JWSC STANDARDS FOR WATER AND SEWER DESIGN AND CONSTRUCTION.



NOT TO SCALE



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## OIL/WATER SEPARATOR

JWSC 5-7A

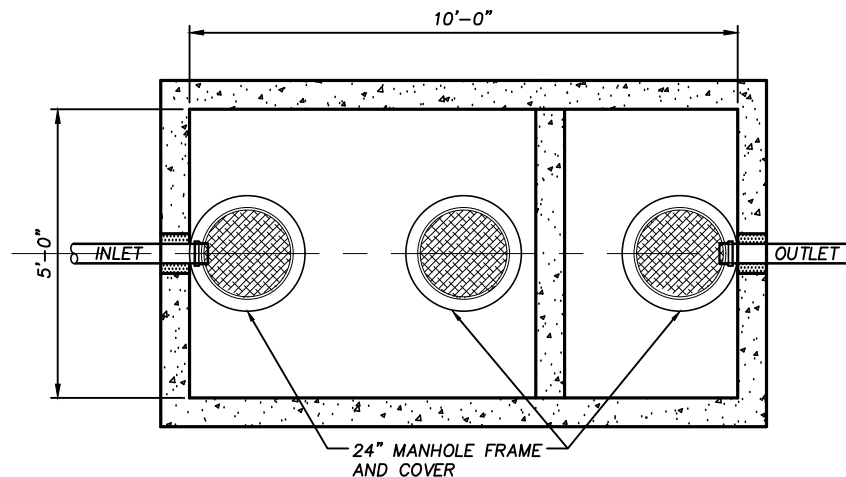
DESIGNED: BGJWSC

DRAWN: HPATEL

DATE: 12/04/2023

SCALE: NTS

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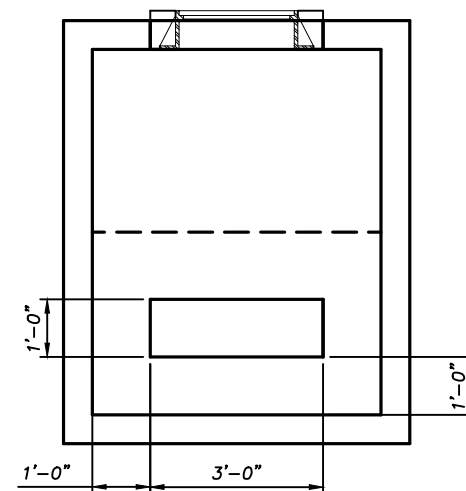
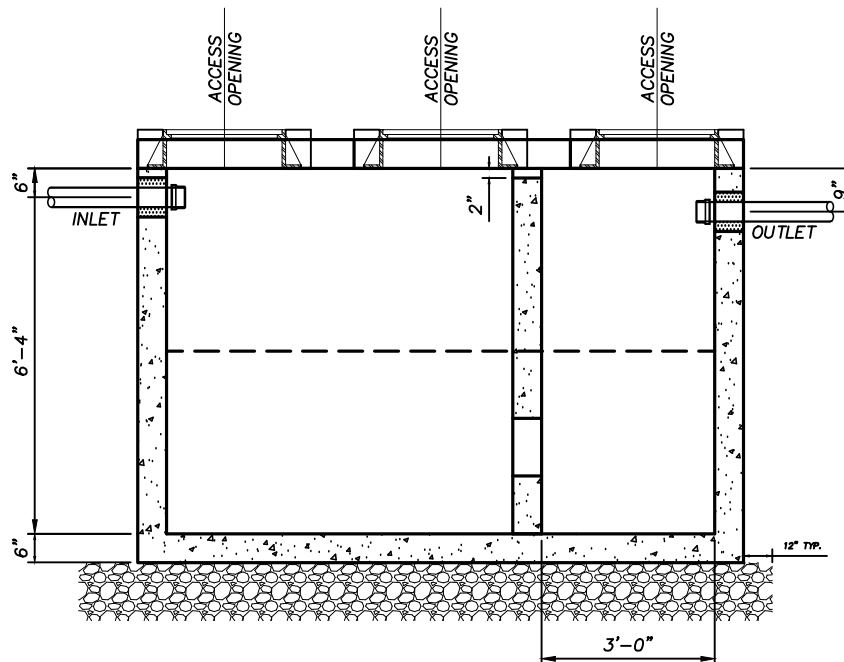
ACCESS TUBES OR RISERS SHALL BE HIGH DENSITY POLYETHYLENE (HDPE) PIPE CONFORMING TO ASTM D1248 (TYPE III C, CATEGORY 5, P34) OR PRECAST CONCRETE SEALED AS NOTED ABOVE.

MANHOLE FRAME AND COVERS SHALL BE MANUFACTURED FROM DUCTILE IN ACCORDANCE WITH ISO 1083, RATED AT H20 LOADING.

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## OIL/WATER SEPARATOR 2,000 GALLON CAPACITY

JWSC 5-7B

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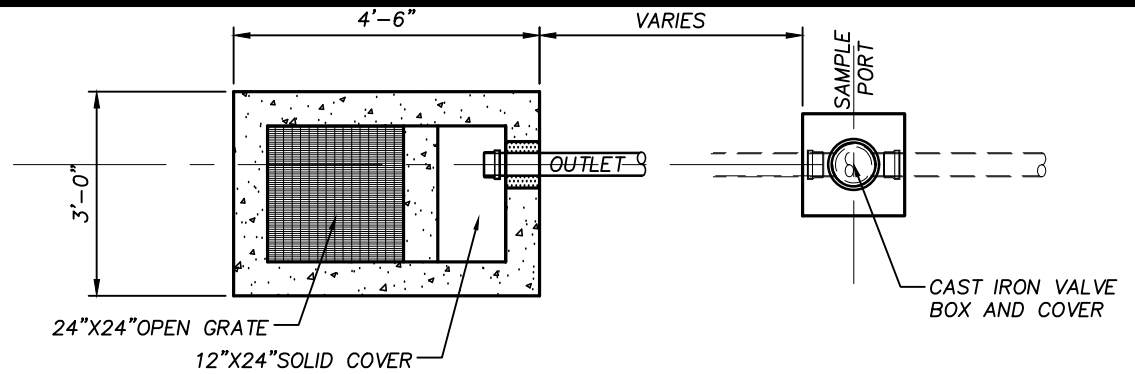
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#### GENERAL NOTES:

MULTIPLE FLOOR DRAINS MAY DISCHARGE INTO ONE SAND INTERCEPTOR.

SAND INTERCEPTORS SHALL BE BUILT OF BRICK OR CONCRETE OR OTHER WATER TIGHT MATERIAL. THE INTERCEPTOR SHALL HAVE AN INTERIOR BAFFLE FOR FULL SEPARATION OF THE INTERCEPTOR INTO TWO SECTIONS. THE OUTLET PIPE SHALL BE THE 6" MIN.

THE SAND INTERCEPTOR SHALL HAVE A MINIMUM DIMENSION OF TWO FEET SQUARE FOR THE NET FREE OPENING OF THE INLET SCREEN AND A MINIMUM DEPTH UNDER THE INVERT OF THE OUTLET PIPE OF TWO FEET.

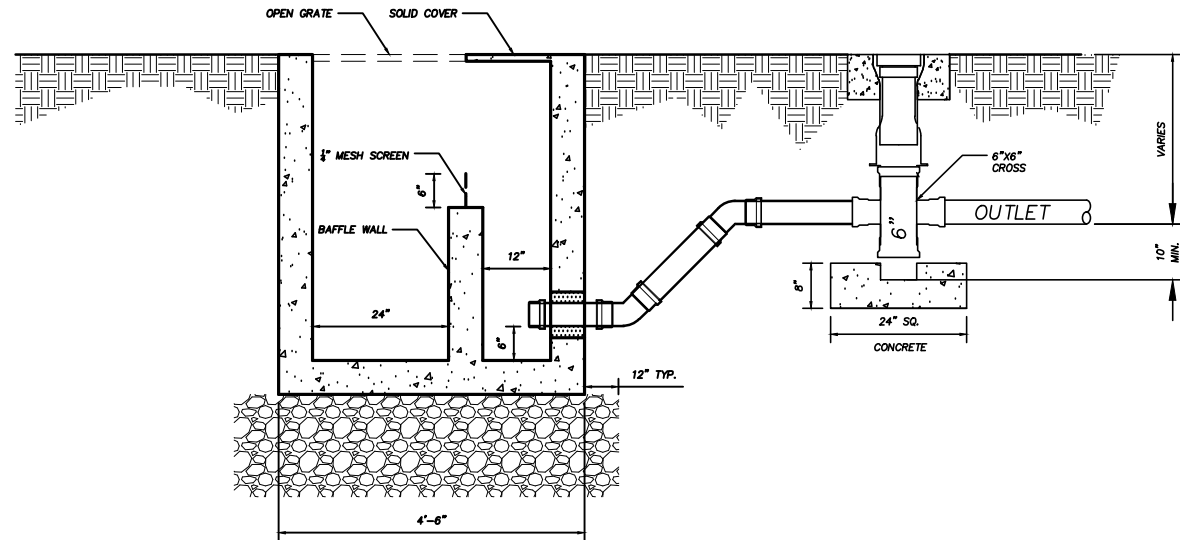
FOR EACH FIVE GALLON PER MINUTE FLOW OR FRACTION THEREOF OVER 20 GALLONS PER MINUTE, THE AREA OF THE SAND INTERCEPTOR INLET SECTION IS TO BE INCREASED BY ONE SQUARE FOOT. THE OUTLET SECTION SHALL AT ALL TIMES HAVE A MINIMUM AREA OF 50 PERCENT OF THE INLET SECTIONS.

THE OUTLET SECTION SHALL BE COVERED BY A SOLID REMOVABLE COVER SET FLUSH WITH THE FINISHED FLOOR, AND THE INLET SECTION SHALL HAVE AN OPEN GRATE SET FLUSH WITH THE FINISHED FLOOR AND SUITABLE FOR TRAFFIC IN THE AREA IN WHICH IT IS LOCATED.

SAND AND SIMILAR INTERCEPTORS FOR EVERY SOLID SHALL SO BE DESIGNED AND LOCATED AS TO BE READILY ACCESSIBLE FOR CLEANING, SHALL HAVE A WATER SEAL OF NOT LESS THAT SIX INCHES, AND SHALL BE VENTED.

ALTERNATE DESIGNS FOR CONSTRUCTION OR BAFFLING OF SAND INTERCEPTORS COMPLYING WITH THE INTENT OF THIS CODE MAY BE SUBMITTED TO THE PRE-TREATMENT COMPLIANCE COORDINATOR FOR REVIEW/APPROVAL.

NOT TO SCALE



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## SAND/SOLID SEPARATOR

JWSC 5-8

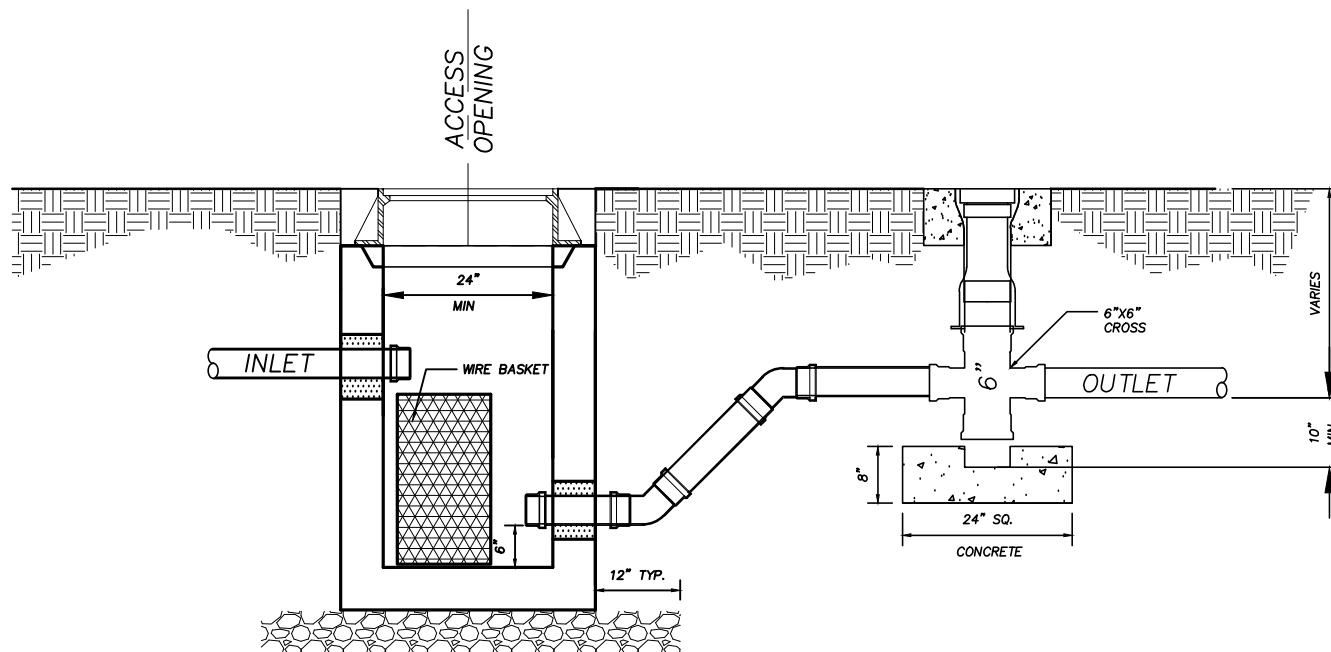
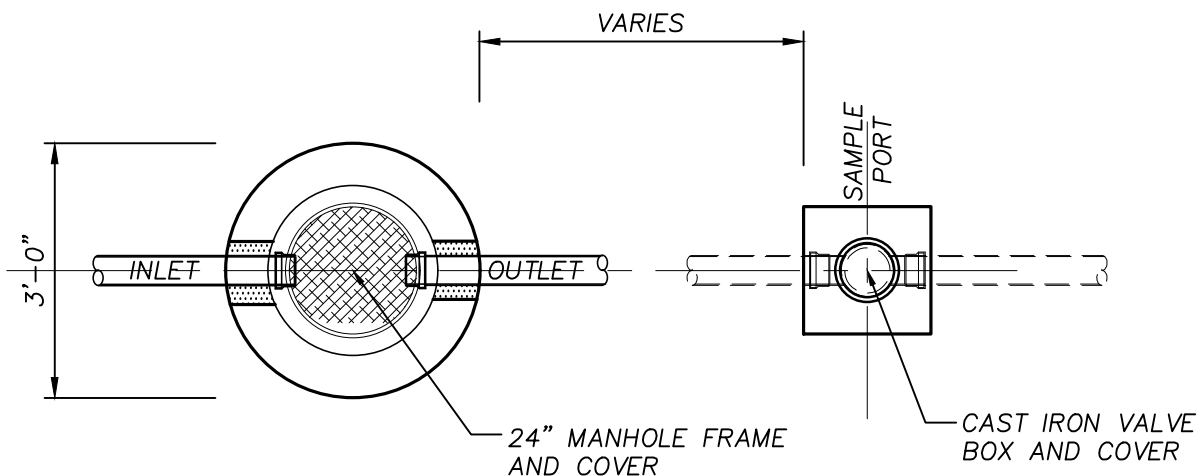
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#### GENERAL NOTES:

LAUNDRY EQUIPMENT THAT DOES NOT HAVE INTEGRAL STRAINERS SHALL DISCHARGE INTO AN INTERCEPTOR HAVING A WIRE BASKET OR SIMILAR DEVICE THAT IS REMOVABLE FOR CLEANING AND THAT WILL PREVENT PASSAGE INTO DRAINAGE SYSTEM OF SOLIDS  $\frac{1}{2}$  INCH OR LARGER IN MAXIMUM DIMENSION, SUCH AS STRING, RAGS, BUTTONS OR OTHER SOLID MATERIALS DETRIMENTAL TO THE DRAINAGE SYSTEM.

NOT TO SCALE



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## LINT TRAP

JWSC 5-9

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