



GENERAL NOTES

THESE DRAWINGS ARE THE PROPERTY OF THE ENGINEER AND MAY BE REPRODUCED ONLY WITH THE WRITTEN PERMISSION OF THE ENGINEER. AUTHORIZED REPRODUCTIONS MUST BEAR THE NAME OF THE ENGINEER.

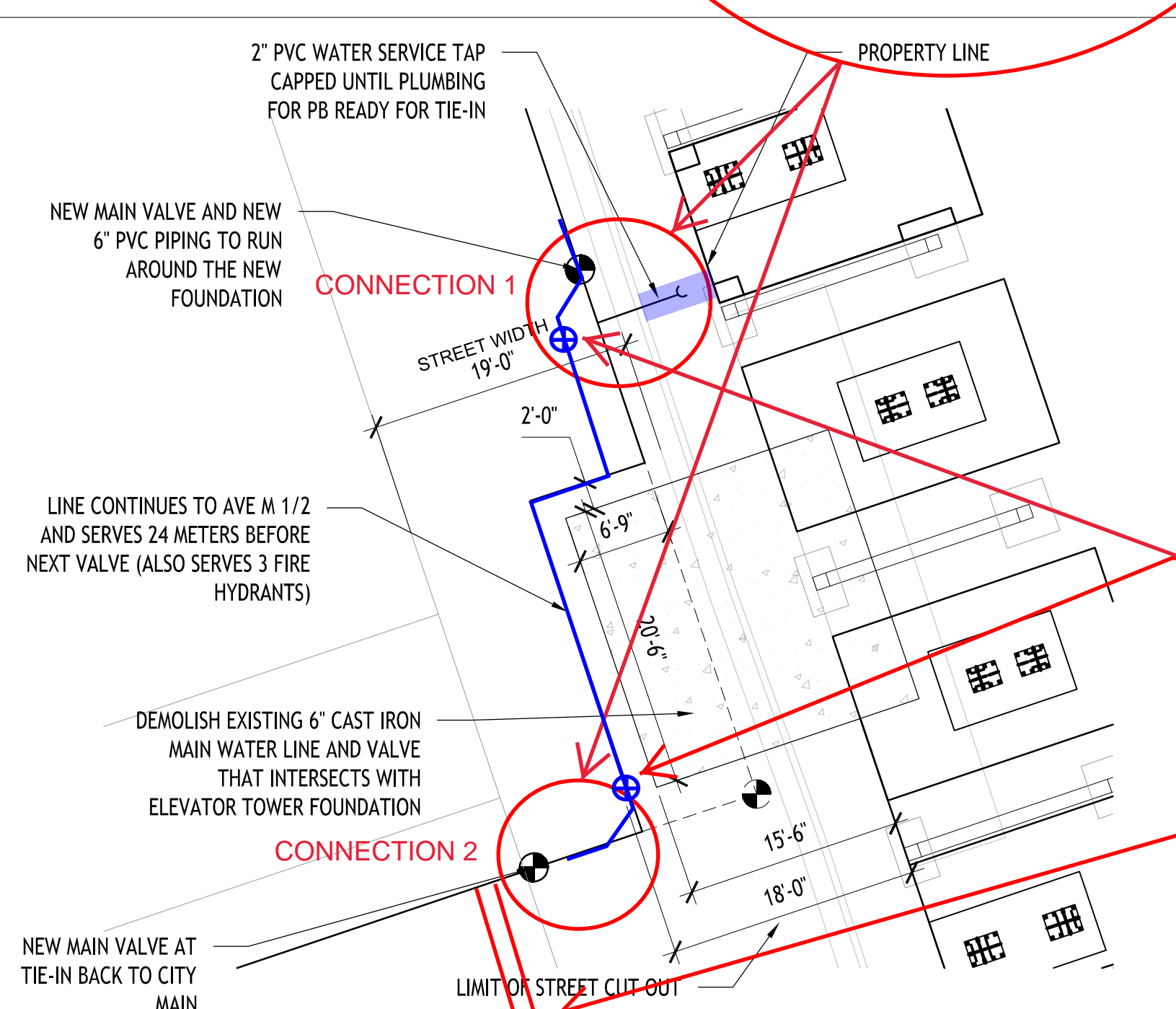
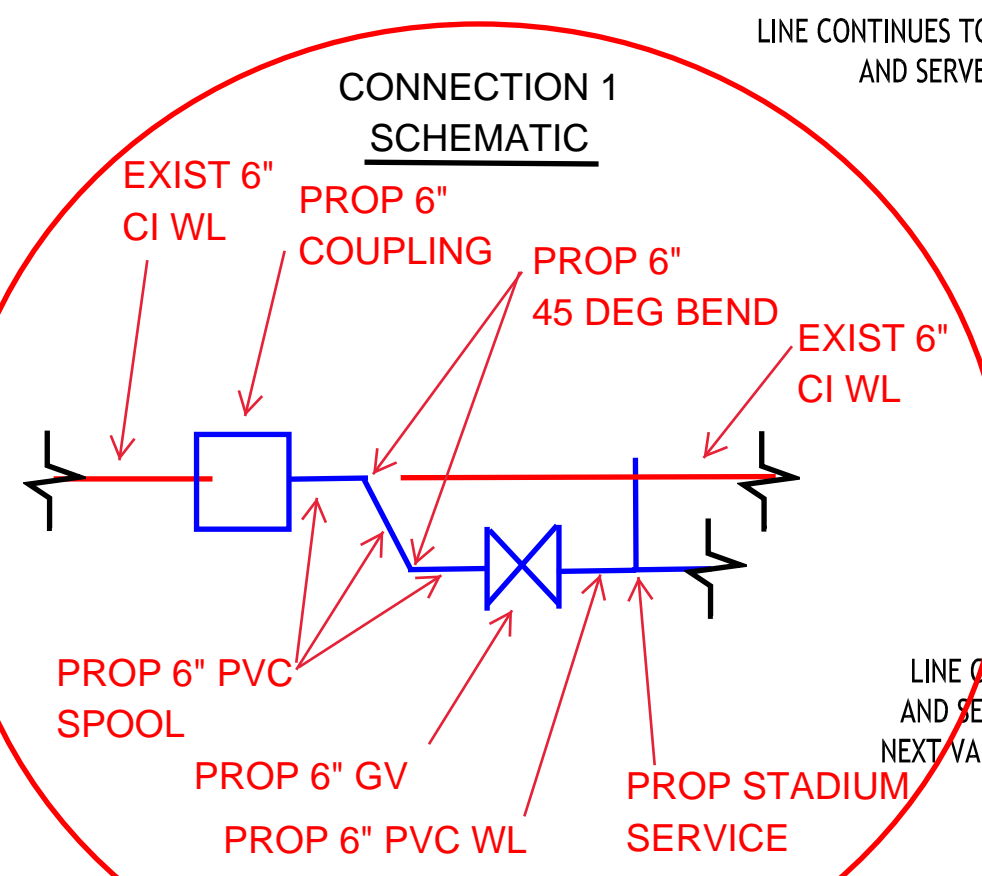
1. ALL APPLICABLE FEDERAL, STATE, AND MUNICIPAL REGULATIONS SHALL BE FOLLOWED. THE CONTRACTOR SHALL COMPLY WITH THE LOCAL BUILDING CODE FOR GALVESTON, TEXAS. CURRENTLY, THE CITY HAS ADOPTED THE 2021 INTERNATIONAL BUILDING CODE (IBC). LOCAL AMENDMENTS SHALL ALSO APPLY.
2. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS AND COORDINATE WITH ARCHITECTURAL DRAWINGS.
3. THE CONTRACTOR SHALL PROTECT EXISTING FACILITIES, STRUCTURES, AND UTILITIES FROM DAMAGE. THE CONTRACTOR IS RESPONSIBLE FOR ALL TEMPORARY STRUCTURAL STABILITY DURING CONSTRUCTION.
4. JOB SAFETY AND CONSTRUCTION PROCEDURES ARE THE RESPONSIBILITY OF THE CONTRACTOR.
5. THE CONTRACTOR IS RESPONSIBLE FOR THE ALIGNMENT AND PLUMBNESS OF ALL COMPONENTS.
6. ALL UNDERGROUND UTILITIES SHOWN ARE NOT GUARANTEED TO BE COMPLETE OR DEFINITE, BUT WERE OBTAINED FROM THE BEST INFORMATION AVAILABLE. CONTRACTOR TO VERIFY ALL UNDERGROUND UTILITIES IN THE FIELD PRIOR TO CONSTRUCTION AND NOTIFY ENGINEER IF DISCREPANCIES OCCUR.

CIVIL NOTES

1. THE PROJECT HAS BEEN DESIGNED AND SHALL BE CONSTRUCTED IN STRICT ACCORDANCE WITH THE INTERNATIONAL PLUMBING CODE (IPC), 2021 EDITION.
2. SANITARY SEWER PIPE SHALL BE SUBMITTED FOR APPROVAL PRIOR TO CONSTRUCTION.
3. BACKFILLING SHALL NOT TAKE PLACE UNTIL ALL LINES ARE APPROVED BY THE CITY OF GALVESTON AND ANY OTHER UTILITY DEPT REQUIRED BY CODE.
4. TRAFFIC CONTROL SHALL BE COORDINATED WITH THE CITY OF GALVESTON ENGINEERING DEPT.
5. FOLLOW ATTACHED CITY OF GALVESTON DETAILS FOR ALL WORK - SEE CIVIL SHEETS.

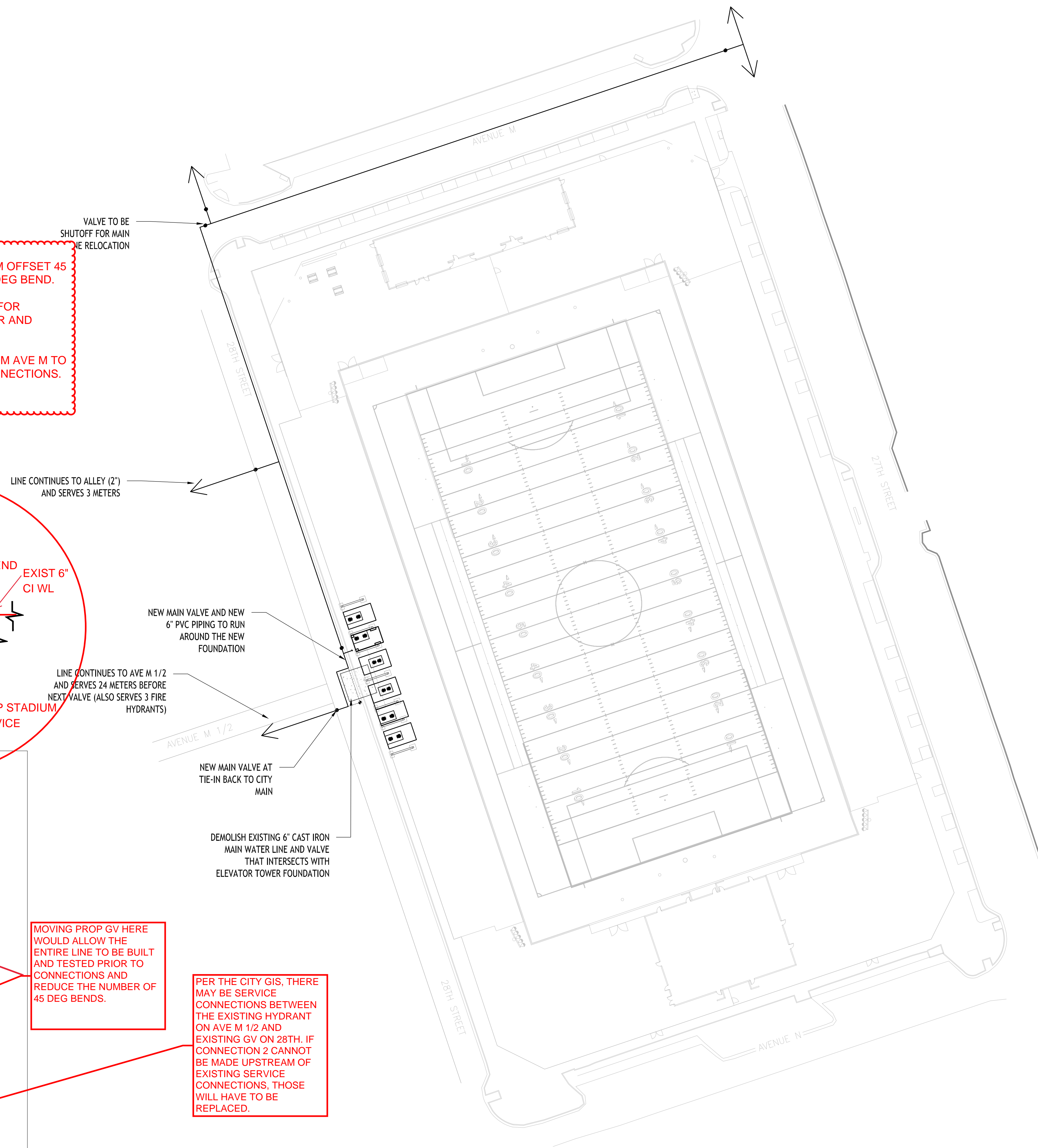
SUGGESTED PHASING:
 1. BUILD ENTIRE LINE FROM OFFSET 45 DEG BEND TO OFFSET 45 DEG BEND.
 2. USE HYDRANT ON M 1/2 FOR HYDROSTATIC TEST WATER AND DISINFECTION.
 3. ISOLATE ENTIRE WL FROM AVE M TO 31ST AND MAKE BOTH CONNECTIONS.
 4. DEMO EXISTING WL.

NOTES:
 1. ALL VALVES AND FITTINGS TO BE MJ WITH RESTRAINTS. RESTRAINTS TO BE BY EBBA IRON, STAR PIPE, OR APPROVED EQUAL.
 2. COUPLING TO BE ROMAC 400RG PVC, OR APPROVED EQUAL.
 3. GV TO BE SERIES 2500-1 RESILIENT WEDGE, BY AMERICAN FLOW CONTROL, OR APPROVED EQUAL.
 4. 2" STADIUM SERVICE TO BE PER COG DETAIL ON SHEET 2 OF THIS PDF.
 5. SCHEMATIC TO BE SIMILAR FOR THE CONNECTION ON M 1/2.



MOVING PROP GV HERE WOULD ALLOW THE ENTIRE LINE TO BE BUILT AND TESTED PRIOR TO CONNECTIONS AND REDUCE THE NUMBER OF 45 DEG BENDS.

PER THE CITY GIS, THERE MAY BE SERVICE CONNECTIONS BETWEEN THE EXISTING HYDRANT ON AVE M 1/2 AND EXISTING GV ON 28TH. IF CONNECTION 2 CANNOT BE MADE UPSTREAM OF EXISTING SERVICE CONNECTIONS, THOSE WILL HAVE TO BE REPLACED.



JEFFREY TAY BISHOP
 126687
 LICENSED PROFESSIONAL ENGINEER

5.30.24
 F-18971

| No. | Description | Date: |
|-----------|-------------|-------|
| REVISIONS | | |

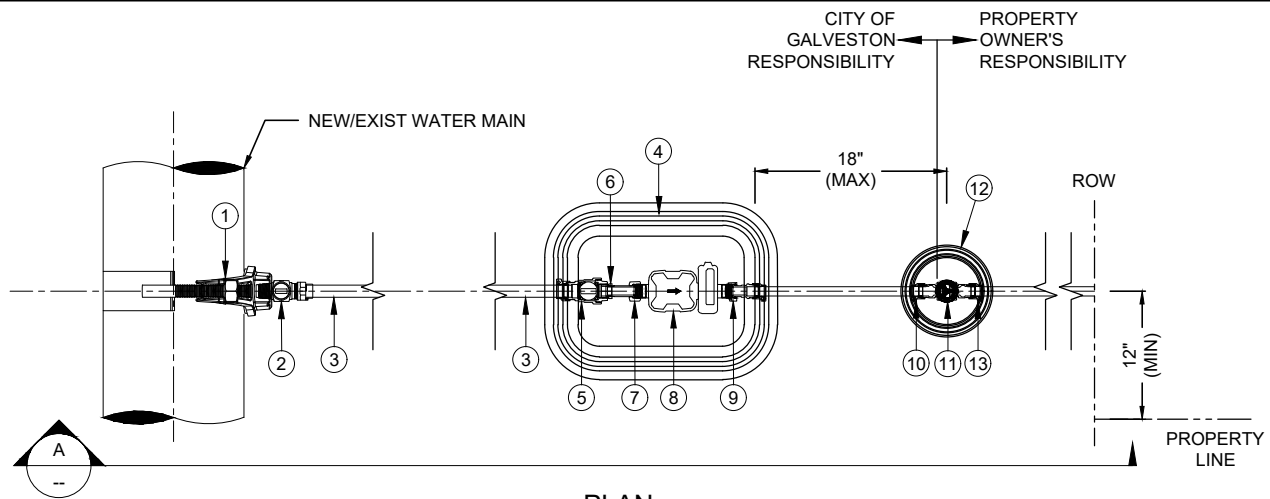
GISD - COURVILLE STADIUM - PRESSBOX

WATER MAIN LINE RELOCATION

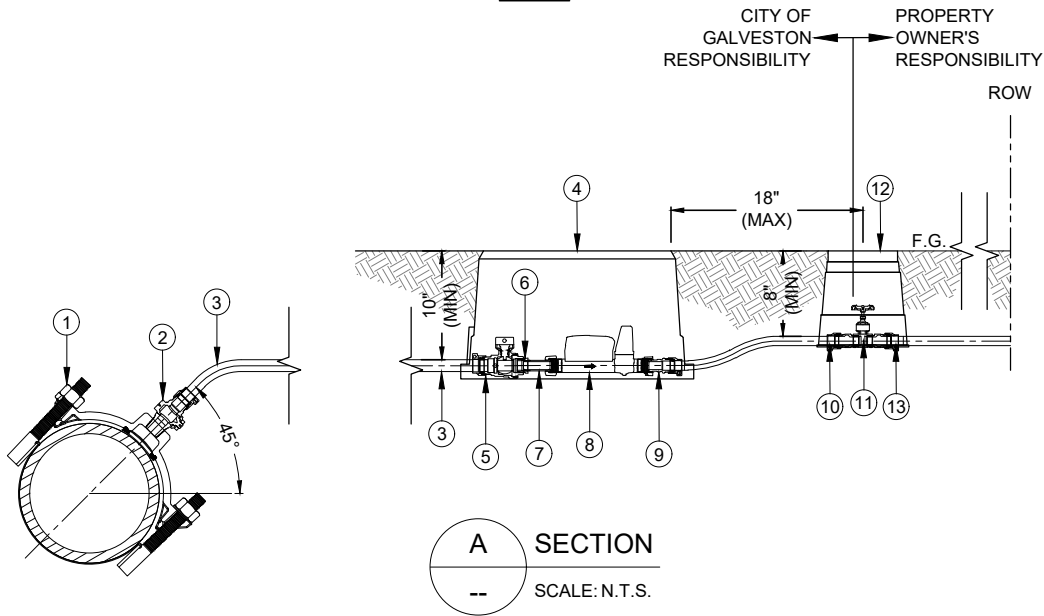
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5.30.24

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PLAN



A SECTION
SCALE: N.T.S.

5/8", 3/4", & 1" FITTING SCHEDULE

| ITEM NO | DESCRIPTION | QTY |
|---------|--|-----|
| 1 | SERVICE SADDLE W/ 1" AWWA/CC TAP | 1 |
| 2 | 1" CORP STOP, AWWA/CC X PACK JOINT | 1 |
| 3 | 1" SDR 9 CTS PE TUBING | NA |
| 4 | DFW METER BOX | 1 |
| 5 | 1" CURB STOP, PACK JOINT X FNPT | 1 |
| 6 | 1" X 3/4" REDUCING BUSHING, MNPT X FNPT | 1 |
| 7 | 3/4" METER COUPLING, MNPT X SWIVEL NUT | 1 |
| 8 | 5/8" OR 3/4" BADGER E-SERIES ULTRASONIC METER | 1 |
| 9 | 3/4" SERVICE FITTING, SWIVEL NUT X PACK JOINT | 1 |
| 10 | SERVICE FITTING, PACK JOINT X MNPT | 2 |
| 11 | 5/8" or 3/4" GATE VALVE, FNPT X FNPT | 1 |
| 12 | DFW VALVE BOX | 1 |
| 13 | SERVICE FITTING, MNPT X (SERVICE COMPATIBLE OUTLET CONNECTION) | 1 |

NOTES:

- STANDARD 3/4" SERVICE DEPICTED. REDUCING BUSHING NOT REQUIRED FOR 1" METER.
- SERVICE LINES SHALL BE SDR 9 CTS PE TUBING.
- FITTINGS SHALL BE NL BRASS OR BRONZE.
- INSERT STIFFENERS REQUIRED FOR PACK JOINT CONNECTIONS.
- PROPERTY OWNER'S RESPONSIBILITY INCLUDES GATE VALVE.
- METER/VALVE BOXES SHALL BE SET FLUSH WITH FINISHED GRADE.
- METER BOXES SHALL BE SET 12"-18" FROM BACK OF CURB, OR 18" MIN FROM TOP BANK OF DITCH.
- VALVE BOXES SHALL BE SET MAX 18" FROM METER BOX.
- METER/VALVE BOXES SHALL BE SET OUTSIDE OF PAVING AREAS UNLESS OTHERWISE INDICATED ON THE PLANS.
- METER BOXES SET IN PAVING SHALL BE TRAFFIC RATED.
- MIN COVER FOR SERVICE LINES SHALL BE 6" FROM BOTTOM OF CURB OR 24" FROM CROWN OF ROAD, WHICHEVER IS GREATER.
- MIN COVER FOR SERVICE LINES SHALL BE 18" FROM DITCH FLOWLINE OR 48" FROM CROWN OF ROAD, WHICHEVER IS GREATER..
- PAY ITEM FOR WATER TAP AND SERVICE LINE INSTALLATION INCLUDES LOCATING WATER MAIN, TAPPING SADDLE, CORP STOP, SERVICE TUBING, CURB STOP, METER BOX, SERVICE FITTINGS, GATE VALVE, VALVE BOX, AND ALL APPURTENANCES NECESSARY TO COMPLETE SERVICE INSTALLATION.
- METER/VALVE BOXES TO BE PER SECTION 02604.
- METERS TO BE PER SECTION 02627.
- TAPPING SADDLES, SERVICE LINES, AND SERVICE FITTINGS TO BE PER SECTION 02665.
- EXCAVATION AND BACKFILL TO BE PER SECTION 02227.



CITY OF GALVESTON
ENGINEERING DEPARTMENT
3015 MARKET ST. GALVESTON, TX 77553
409.797.3630

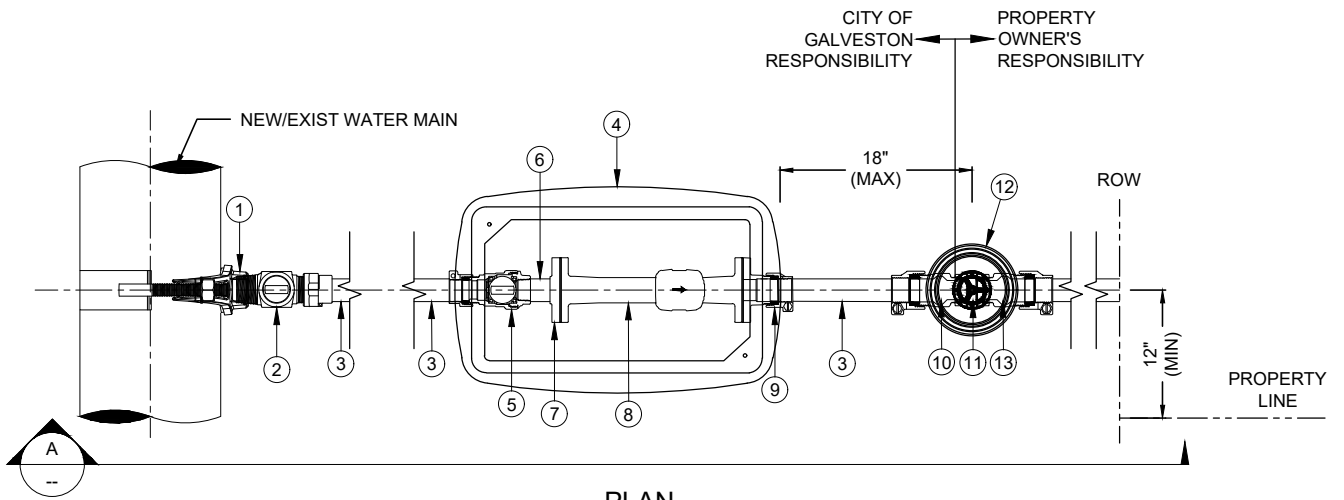
STANDARD DETAIL
WATER SERVICE
CONNECTION
1-INCH & UNDER

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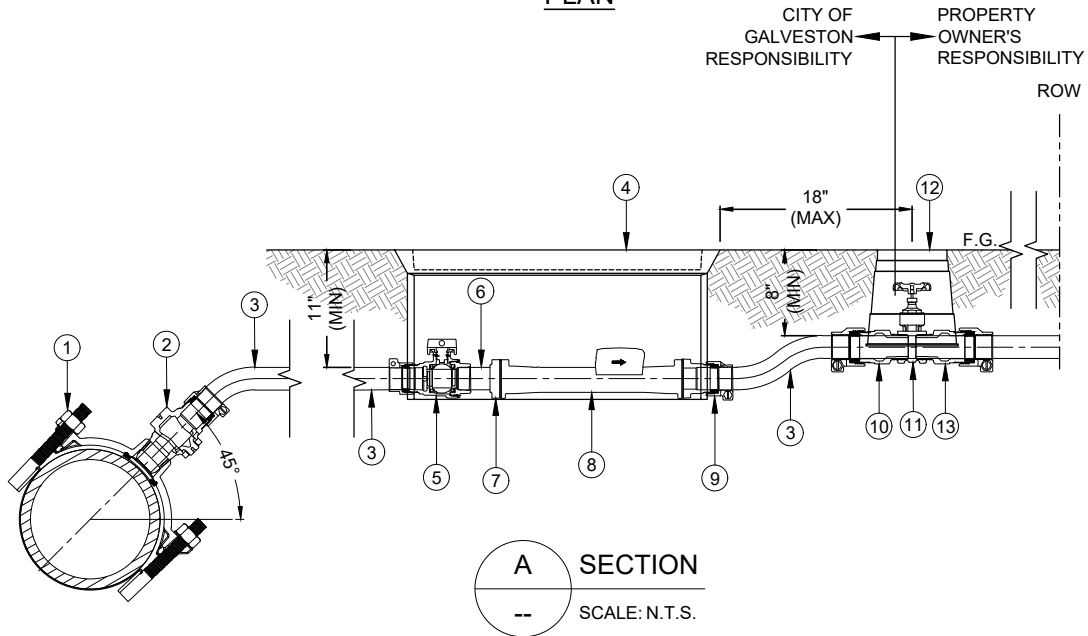
DIRECTOR OF INFRASTRUCTURE
& ENGINEERING

DETAIL NO.: 02665-01

DATE: 05/24



PLAN



A SECTION

SCALE: N.T.S.

| 2" FITTING SCHEDULE | | |
|---------------------|---|-----|
| ITEM NO | DESCRIPTION | QTY |
| 1 | SERVICE SADDLE W/ 2" AWWA/CC TAP | 1 |
| 2 | 2" CORP STOP, AWWA/CCXPACK JOINT | 1 |
| 3 | 2" SDR 9 CTS PE TUBING | NA |
| 4 | DFW METER BOX | 1 |
| 5 | 2" CURB STOP, PACK JOINT X FNPT | 1 |
| 6 | 2" BRASS SPOOL, MNPT X MNPT | 1 |
| 7 | 2" COUPLING FLANGE, ELLIPTICAL FLANGE X FNPT | 1 |
| 8 | 2" BADGER E-SERIES ULTRASONIC METER | 1 |
| 9 | 2" METER COUPLING, ELLIPTICAL FLGXPACK JOINT | 1 |
| 10 | 2" SERVICE FITTING, PACK JOINT X MNPT | 2 |
| 11 | 2" GATE VALVE, FNPT X FNPT | 1 |
| 12 | DFW VALVE BOX | 1 |
| 13 | 2" SERVICE FITTING, MNPT X (SERVICE COMPATIBLE OUTLET CONNECTION) | 1 |

NOTES:

- SERVICE LINES SHALL BE SDR 9 CTS PE TUBING.
- FITTINGS SHALL BE NL BRASS OR BRONZE.
- INSERT STIFFNERS REQUIRED FOR PACK JOINT CONNECTIONS.
- METER FLANGE HARDWARE SHALL BE 316 STAINLESS STEEL.
- PROPERTY OWNER'S RESPONSIBILITY INCLUDES GATE VALVE.
- METER/VALVE BOXES SHALL BE SET FLUSH WITH FINISHED GRADE.
- METER BOXES SHALL BE SET 12"-18" FROM BACK OF CURB, OR 18" MIN FROM TOP BANK OF DITCH.
- VALVE BOXES SHALL BE SET MAX 18" FROM METER BOX.
- METER/VALVE BOXES SHALL BE SET OUTSIDE OF PAVING AREAS UNLESS OTHERWISE INDICATED ON THE PLANS.
- METER BOXES SET IN PAVING SHALL BE TRAFFIC RATED.
- MIN COVER FOR SERVICE LINES SHALL BE 6" FROM BOTTOM OF CURB OR 24" FROM CROWN OF ROAD, WHICHEVER IS GREATER.
- MIN COVER FOR SERVICE LINES SHALL BE 18" FROM DITCH FLOWLINE OR 48" FROM CROWN OF ROAD, WHICHEVER IS GREATER..
- PAY ITEM FOR WATER TAP AND SERVICE LINE INSTALLATION INCLUDES LOCATING WATER MAIN, TAPPING SADDLE, CORP STOP, SERVICE TUBING, CURB STOP, METER BOX, SERVICE FITTINGS, GATE VALVE, VALVE BOX, AND ALL APPURTENANCES NECESSARY TO COMPLETE SERVICE INSTALLATION.
- METER/VALVE BOXES TO BE PER SECTION 02604.
- METERS TO BE PER SECTION 02627.
- TAPPING SADDLES, SERVICE LINES, AND SERVICE FITTINGS TO BE PER SECTION 02665.
- EXCAVATION AND BACKFILL TO BE PER OF SECTION 02227.



CITY OF GALVESTON
 ENGINEERING DEPARTMENT
 3015 MARKET ST. GALVESTON, TX 77553
 409.797.3630

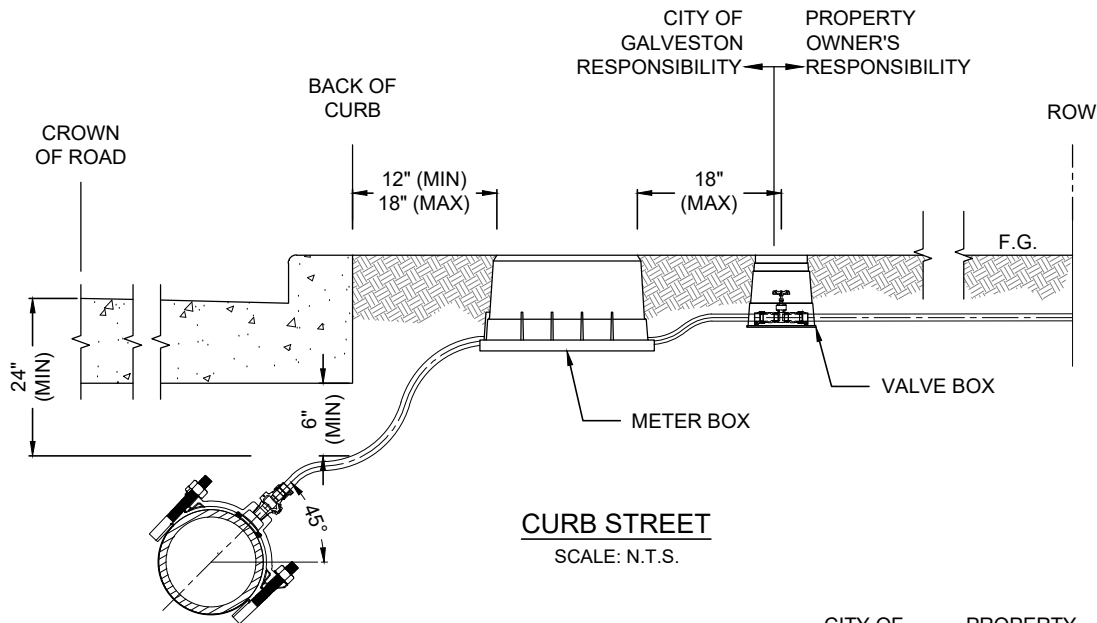
STANDARD DETAIL
 WATER SERVICE
 CONNECTION
 2-INCH

APPROVED BY:

DIRECTOR OF INFRASTRUCTURE
 & ENGINEERING

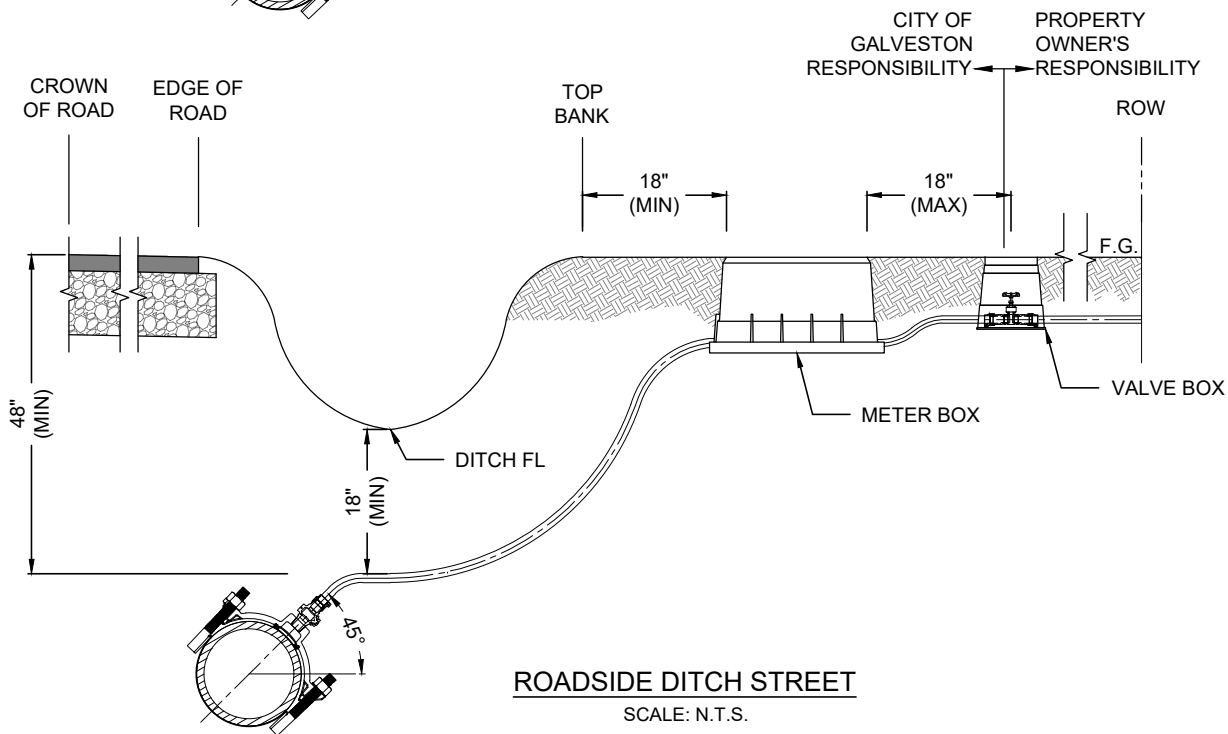
DETAIL NO.: 02665-02

DATE: 05/24



CURB STREET

SCALE: N.T.S.



ROADSIDE DITCH STREET

SCALE: N.T.S.

NOTES:

1. METER/VALVE BOXES SHALL BE SET FLUSH WITH FINISHED GRADE.
2. METER BOXES SHALL BE SET 12"-18" FROM BACK OF CURB, OR MIN 18" FROM TOP BANK OF DITCH.
3. VALVE BOXES SHALL BE SET MAX 18" FROM METER BOXES.
4. ALTERNATE LOCATIONS FOR METER/VALVE BOXES DUE TO EXISTING CONFLICTS SHALL BE APPROVED BY THE CITY IN WRITING PRIOR TO INSTALLATION.
5. METER/VALVE BOXES SHALL BE SET OUTSIDE OF PAVING AREAS UNLESS OTHERWISE INDICATED ON THE PLANS.
6. METER BOXES SET IN PAVING SHALL BE TRAFFIC RATED.
7. CURB STREETS: MIN COVER FOR SERVICE LINES SHALL BE 6" FROM BOTTOM OF CURB OR 24" FROM CROWN OF ROAD, WHICHEVER IS GREATER.
8. ROADSIDE DITCH STREETS: MIN COVER FOR SERVICE LINES SHALL BE 18" FROM DITCH FLOWLINE OR 48" FROM CROWN OF ROAD, WHICHEVER IS GREATER.
9. PROPERTY OWNER'S RESPONSIBILITY INCLUDES GATE VALVE.
10. METER/VALVE BOXES TO BE PER SECTION 02604.
11. METERS TO BE PER SECTION 02627.
12. TAPPING SADDLES, SERVICE LINES, AND SERVICE FITTINGS TO BE PER SECTION 02665.
13. EXCAVATION AND BACKFILL TO BE PER OF SECTION 02227.



CITY OF GALVESTON
 ENGINEERING DEPARTMENT
 3015 MARKET ST. GALVESTON, TX 77553
 409.797.3630

STANDARD DETAIL
 TYPICAL METER BOX
 LOCATION

APPROVED BY:

DIRECTOR OF INFRASTRUCTURE
 & ENGINEERING

DETAIL NO.: 02665-03

DATE: 05/24