



**REVIEW BY FORT BEND COUNTY
COMMISSIONERS COURT**

**Fort Bend County
Engineering Department**
301 Jackson Suite 401
Richmond, Texas 77469
281.633.7500
Permits@fortbendcountytx.gov



Right of Way Permit



Commercial Driveway Permit

Permit No: 2018-19973

Applicant: G&A Boring Direccional

Job Location Site: FM 1464, Houston, TX 77083

Bond No. **Date of Bond:** 5/8/2018 **Amount:** \$50,000.00

The above applicant came to make use of certain Fort Bend County property subject to, "The Order Regulating the Laying, Construction, Maintenance, and Repair of Buried Cables, Conduits, and Pole Lines, In, Under, Across or Along Roads, Streets, Highways, and Drainage Ditches in Fort Bend County, Texas, Under the Jurisdiction of the Commissioners Court of Fort Bend County, Texas," as passed by the Commissioners Court of Fort Bend County, Texas, of the Minutes of the Commissioners Court of Fort Bend County, Texas, to the extent that such order is not inconsistent with Chapter 181, Vernon's Texas Statutes and Codes Annotated.

Notes:

1. Evidence of review by the Commissioners Court must be kept on the job site and failure to do so constitutes grounds for job shutdown.
2. Written notices are required:
 - a. 48 hours in advance of construction start up, and
 - b. When construction is completed and ready for final inspection, submit notification to Permit Administrator thru MyGovernmentOnline.org portal.
3. This permit expires one (1) year from date of permit if construction has not commenced.

On this 24th day of April, 2018, Upon Motion of Commissioner Meyers, seconded by Commissioner Morales, duly put and carried, it is ORDERED, ADJUDGED AND DECREED that said notice of said above purpose is hereby acknowledged by the Commissioners Court of Fort Bend County, Texas, and that said notice be placed on record according to the regulation order thereof.

Signature

Presented to Commissioners Court and approved.

By: Rick J. Staigle, PE, PTOE
County Engineer

Date Recorded 4-30-18 Comm. Court No. 13c

By: N/A
Drainage District Engineer/Manager

Clerk of Commissioners Court

By: Linda Willes
Deputy



**PERMIT APPLICATION REVIEW FORM FOR
CABLE, CONDUIT, AND POLE LINE ACTIVITY
IN FORT BEND COUNTY**

**Fort Bend County
Engineering Department**
301 Jackson Suite 401
Richmond, Texas 77469
281.633.7500
Permits@fortbendcountytexas.gov

- ☒ **Right of Way Permit**
☐ **Commercial Driveway Permit**

Permit No: 2018-19973

The following "Notice of Proposed Cable, Conduit, and/or Pole Line activity in Fort Bend County" and accompanying attachments have been reviewed and the notice conforms to appropriate regulations set by Commissioner's Court of Fort Bend County, Texas.

(1) COMPLETE APPLICATION FORM:

- ☒ a. Name of road, street, and/or drainage ditch affected.
☒ b. Vicinity map showing course of directions
☒ c. Plans and specifications

(2) BOND:

- ☐ County Attorney, approval when applicable.
- ☒ Perpetual bond currently posted. Bond No: [REDACTED] Amount: \$50,000.00
- ☐ Performance bond submitted. Bond No: _____ Amount: _____
- ☐ Cashier's Check Check No: _____ Amount: _____

(3) DRAINAGE DISTRICT APPROVAL (WHEN APPLICABLE):

Drainage District Approval

Date

We have reviewed this project and agree it meets minimum requirements.

Rick J. Stagle, PE, PTOE

Permit Administrator

4/13/2018

Date

FORT BEND COUNTY MUNICIPAL UTILITY DISTRICT NO. 30 FM 1464 - PHASE I 12" WATERLINE IMPROVEMENTS FROM BISSONNET ST. TO BELLAIRE BLVD.

**FORT BEND COUNTY M.U.D. No. 30
BOARD OF DIRECTORS**

**LINDA S. YORLANO
PRESIDENT**

**PAUL LIONEL YOUNT JR.
VICE PRESIDENT**

**CHRISTOPHER BELL
SECRETARY**

**MICHAEL SMITH
ASST. VICE PRESIDENT**

**PAULINE ROWE
ASST. SECRETARY**

<small>FORT BEND COUNTY ENGINEER</small>	
ENGINEER: <u>Paul J. Stangle, P.E.</u>	RICHARD W. STOLLES, P.E.
DATE: <u>9/7/17</u>	
THESE SIGNATURES ARE VOID IF CONSTRUCTION HAS NOT COMMENCED IN (1) YEAR FROM DATE OF APPROVAL.	
APPROVED: <u>L.S.H.</u>	
DEVELOPMENT COORDINATOR	
DATE: <u>9/7/17</u>	

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9	PLAN & PROFILE - STA. 5+00 TO STA. 10+00
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11	PLAN & PROFILE - STA. 15+00 TO STA. 20+00
12	PLAN & PROFILE - STA. 20+00 TO STA. 25+00
13	PLAN & PROFILE - STA. 25+00 TO STA. 30+00
14	PLAN & PROFILE - STA. 30+00 TO STA. 35+00
15	PLAN & PROFILE - STA. 35+00 TO STA. 40+00
16	PLAN & PROFILE - STA. 40+00 TO STA. 45+00
17	PLAN & PROFILE - STA. 45+00 TO STA. 50+00
18	PLAN & PROFILE - STA. 50+00 TO STA. 55+00
19	PLAN & PROFILE - STA. 55+00 TO STA. 60+00
20	PLAN & PROFILE - STA. 60+00 TO STA. 65+00
21	PLAN & PROFILE - STA. 65+00 TO STA. 70+00
22	PLAN & PROFILE - STA. 70+00 TO STA. 75+00
23	PLAN & PROFILE - STA. 75+00 TO STA. 80+00
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NOTE:

1. NO SANITARY SEWER IMPROVEMENTS ARE INCLUDED IN THIS PROJECT.
2. NO CHANGE IN THE EXISTING DRAINAGE PATTERN.

CITY OF HOUSTON NOTE:

CONTRACTOR SHALL NOTIFY THE CITY OF HOUSTON DEPARTMENT OF PUBLIC WORKS AND ENGINEERING, ONE ENGINEERING CONSTRUCTION DIVISION AT 832-395-4424 48 HOURS PRIOR TO STARTING WORK ON THIS PROJECT.

TxDOT APPROVAL

TxDOT PERMIT NO. HOU2015021814125
APPLIED FOR BY: GREG PHIPPS
APPLIED FOR ON: 3-23-2015

"PRIOR TO THE CONSTRUCTION OF THESE FACILITIES WITHIN OR BY THE DISTRICT, THE DISTRICT OR ITS ENGINEER WILL GIVE WRITTEN NOTICE BY REGISTERED OR CERTIFIED MAIL TO THE DIRECTOR OF PUBLIC WORKS AND ENGINEERING STATING THE DATE SUCH CONSTRUCTION WILL BE COMMENCED."

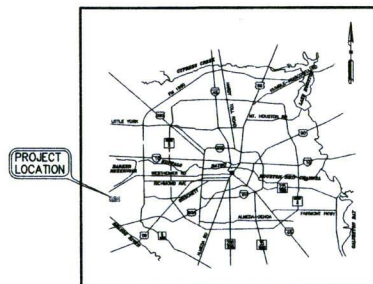
THIS SITE IS IN ZONE "X"

FIRM:
FLOOD INSURANCE RATE MAP: FORT BEND COUNTY, TEXAS
AND INCORPORATED AREAS
MAP 48157021J & 48157021K
EFF: 04/02/2014

TEXAS ONE-CALL NOTIFICATION SYSTEM
CALL BEFORE YOU DIG
713-223-4567 (LOCAL HOUSTON NUMBER)
1-800-545-6005

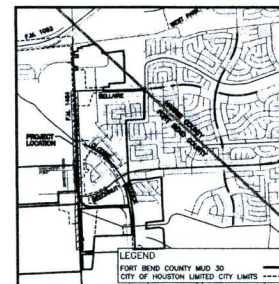
CONTRACTOR SHALL NOTIFY THE CITY OF HOUSTON, DEPARTMENT OF PUBLIC WORKS AND ENGINEERING, ONE ENGINEERING CONSTRUCTION DIVISION AT 832-395-4424 48 HOURS PRIOR TO STARTING WORK ON THIS PROJECT. TELEPHONE NO. 832-395-4424

NOTE:
CALL 1-800-DIG-TESS BEFORE THE COMMENCEMENT OF ANY EXCAVATION.



LOCATION MAP
N.T.S.

DATE: July 2017
PLANS PREPARED BY:



VICINITY MAP
KEY MAP 527-E DWS 1
QMS TLE 1004C

PREVIOUSLY APPROVED UNDER
CON. PLN. NO. 15-0416
C.O.N. LOG NO. 15032588
DRAWING NO. 54109

JACOSTANZA & ASSOCIATES
ENGINEERING, INC.
T.B.P.E. FIRM REGISTRATION No. F-652
4301 CENTER ST. DEER PARK, TX 77536 281-930-9339



APP.	REVISIONS	DATE
NOTE: CITY SIGNATURES VALID FOR ONE YEAR ONLY AFTER DATE OF SIGNATURES		
CITY OF HOUSTON DEPARTMENT OF PUBLIC WORKS AND ENGINEERING		
<p>WATER <u>8-3-17</u></p> <p>WASTEWATER <u>8-3-17</u></p> <p>STORM WATER <u>8-3-17</u></p> <p>STREET & BRIDGE</p>	<p>TRAFFIC AND TRANSPORTATION</p> <p>STORM WATER QUALITY</p> <p>FACILITIES</p>	
CITY ENGINEER	DATE	
DIRECTOR OF PUBLIC WORKS AND ENGINEERING	DATE	
CITY DWG. NO. <u>58731</u>		
SHEET NO 1 OF 42 SHEETS		

P:\Active\F003\1009\Notes\02 NOTES.dwg ~ 7/18/2017 8:29:07 AM ~ Maritza F. Rodriguez

GENERAL CONSTRUCTION NOTES:

- CONTRACTOR SHALL MAINTAIN ADEQUATE DRAINAGE AT ALL TIMES DURING CONSTRUCTION AND SHALL RESHAPE AND REGRADE ANY DITCHES THAT WERE DISTURBED DURING CONSTRUCTION SO AS NOT TO IMPAIR DRAINAGE.
- CONTRACTOR TO OBTAIN ALL PERMITS REQUIRED BY THE CITY OF HOUSTON FOR CONSTRUCTION OF UTILITIES AND/OR CULVERTS WITHIN THE CITY R.O.W.
- CONTRACTOR TO OBTAIN ALL PERMITS REQUIRED BY REGULATION OF FORT BEND COUNTY FOR FLOOD PLAIN MANAGEMENT.
- BACKFILL TO BE COMPACTED IN NO GREATER THAN EIGHT (8) INCH LIFTS TO THE DENSITY OF THE UNDISTURBED ADJACENT SOILS.
- ALL EXISTING UNDERGROUND UTILITIES ARE NOT GUARANTEED TO BE COMPLETE OR DEFINITE, BUT WERE OBTAINED FROM THE BEST INFORMATION AVAILABLE. CONTRACTOR HAS SOLE RESPONSIBILITY FOR FIELD VERIFICATION OF ALL EXISTING FACILITIES SHOWN ON DRAWINGS. CONTRACTOR SHALL COORDINATE ALL CONFLICTS WITH THE APPROPRIATE GOVERNING AGENCY.
- CONTRACTOR SHALL COMPLY WITH "OSHA" REGULATIONS AND STATE OF TEXAS LAW CONCERNING TRENCHING AND SHORING.
- CONTRACTOR SHALL PROVIDE A TRENCH SAFETY SYSTEM TO MEET, AS A MINIMUM, THE REQUIREMENTS OF "OSHA" SAFETY AND HEALTH REGULATION, PART 1926, SUBPART "P" AS PUBLISHED IN THE FEDERAL REGISTER, VOLUME 54, NO. 209, DATED OCTOBER 31, 1989.
- ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE LATEST REVISED CITY OF HOUSTON SPECIFICATIONS AND STANDARDS.
- THE CITY OF HOUSTON ENGINEERING DEPARTMENT SHALL BE NOTIFIED AT LEAST 72 HOURS PRIOR TO BEGINNING ANY CONSTRUCTION.
- UTILITIES HAVE BEEN INDICATED ON THE CONTRACT DRAWINGS AND SHALL ACT AS A GUIDE TO THE CONTRACTOR VERIFYING THE ACTUAL LOCATION OF THESE UTILITIES. THE CONTRACTOR WILL BE REQUIRED TO OBSERVE WATER AND GAS METERS, MANHOLES, AND CLEAN OUTS ETC., NECESSARY TO DETERMINE THEIR RELATIONSHIP TO THE MAINS AND LATERALS, AND TO USE PIPE DETECTORS OR OTHER SUITABLE MEANS TO VERIFY THE HORIZONTAL AND VERTICAL LOCATION OF GAS AND ELECTRICAL MAINS AND LATERALS. IN CASE OF DAMAGE TO PRIVATE UTILITIES, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE FOLLOWING:
 - HOUSTON FIRE DEPARTMENT (GAS, ALL PIPELINES, ELECTRICAL) AT 911.
 - THE UTILITY COMPANIES
 - CITY OF HOUSTON ENGINEERING AT 311
- THE CONTRACTOR IS WHOLLY RESPONSIBLE FOR ANY AND ALL DAMAGE TO ANY ADJOINING PROPERTIES. ANY AREA DAMAGED OR DISTURBED DURING CONSTRUCTION SHALL BE RESTORED TO AN EQUAL OR BETTER CONDITION THAN THE EXISTING AT NO EXTRA COST TO THE CITY.
- EXCAVATIONS LEFT BY THE REMOVAL OF EXISTING UTILITIES SHALL BE BACKFILLED IN MINIMUM EIGHT (8) INCH LIFTS TO 90% DENSITY OF UNDISTURBED ADJACENT SOILS.
- ALL TRENCHES UNDER PAVEMENT (STREETS, PARKING LOTS, DRIVEWAYS, ETC.) SHALL BE BACKFILLED IN THEIR ENTIRETY WITH 2 SACK CEMENT STABILIZED SAND TO THE BOTTOM OF THE SUBGRADE.
- CONTRACTOR SHALL PROVIDE 8" CEMENT STABILIZED BASE COMPACTED TO 90% STANDARD DENSITY UNDER 12" TO ALL INLETS, JUNCTION BOXES AND MANHOLES.

STANDARD CITY OF HOUSTON NOTES (OUTSIDE OF THE CITY LIMITS)

- CONSTRUCT WASTEWATER COLLECTION SYSTEMS, WATER LINES AND STORM DRAINAGE IN ACCORDANCE WITH THE LATEST EDITION OF THE PUBLICATIONS STANDARD CONSTRUCTION SPECIFICATIONS FOR WASTEWATER COLLECTION SYSTEMS, WATER LINES, STORM DRAINAGE, AND STREET PAVING AND STANDARD CONSTRUCTION DETAILS FOR WASTEWATER COLLECTION SYSTEMS, WATER LINES, STORM DRAINAGE, AND STREET PAVING PUBLISHED BY THE CITY OF HOUSTON, DEPARTMENT OF PUBLIC WORKS AND ENGINEERING.
- UTILITIES PRESENTED ON THESE DRAWINGS ARE SHOWN BASED ON THE BEST AVAILABLE INFORMATION. CONTRACTOR SHALL VERIFY THE EXACT LOCATIONS IN THE FIELD PRIOR TO COMMENCING CONSTRUCTION.

CONTRACTOR SHALL NOTIFY TEXAS ONE CALL AT 713-223-4567/ 800-245-4545 AND LOG STAR ONE CALL AT 800-668-8344 AT LEAST 48 HOURS BEFORE PROCEEDING WITH ANY EXCAVATION.
- CONTRACTOR SHALL BE RESPONSIBLE FOR DAMAGES TO EXISTING WATER, WASTEWATER AND STORM DRAINAGE LINES. DAMAGES SHALL BE REPAIRED IN ACCORDANCE WITH THE CITY OF HOUSTON, DEPARTMENT OF PUBLIC WORKS AND ENGINEERING'S STANDARD CONSTRUCTION SPECIFICATIONS FOR WASTEWATER COLLECTION SYSTEMS, WATER LINES, STORM DRAINAGE, AND STREET PAVING AND STANDARD CONSTRUCTION DETAILS FOR WASTEWATER COLLECTION SYSTEMS, WATER LINES, STORM DRAINAGE, AND STREET PAVING REFERENCED ABOVE, AT NO ADDITIONAL COST.
- CONTRACTOR SHALL NOTIFY THE OFFICE OF THE CITY ENGINEER, DEPARTMENT OF PUBLIC WORKS AND ENGINEERING IN WRITING PRIOR TO COMMENCING CONSTRUCTION.
- ADEQUATE DRAINAGE SHALL BE MAINTAINED AT ALL TIMES DURING CONSTRUCTION AND ANY DRAINAGE DITCH OR STRUCTURE DISTURBED DURING CONSTRUCTION SHALL BE RESTORED TO EXISTING CONDITIONS OR BETTER.
- CONTRACTOR SHALL COMPLY WITH LATEST EDITION OF OSHA REGULATIONS AND THE STATE OF TEXAS LAWS CONCERNING PROTECTION OF WORKERS ENTERING EXCAVATIONS.

WATER DISTRIBUTION NOTES:

- WATER MAIN/METER CONSTRUCTION SHALL BE IN ACCORDANCE WITH CITY OF HOUSTON "SPECIFICATIONS FOR WATER MAIN CONSTRUCTION AND MATERIALS" AND "SPECIFICATIONS FOR WATER TAPS AND SERVICE LINES", 3/4" THROUGH 2", WITH LATEST ADDENDA AND ADDENDUMS THERETO.
- ALL UTILITIES SHOWN ON THE DRAWINGS ARE SHOWN AT THE APPROXIMATE LOCATIONS BASED ON THE BEST AVAILABLE INFORMATION. CONTRACTOR TO FIELD VERIFY LOCATION PRIOR TO CONSTRUCTION. ANY DAMAGE TO THE UTILITIES DURING CONSTRUCTION WILL BE THE RESPONSIBILITY OF THE CONTRACTOR.
- CONTRACTOR SHALL CONSTRUCT THE PROPOSED WATER MAINS WITH THE SPECIFICATIONS RELATING TO EXCAVATION, TRENCHING AND BACKFILL FOR WATER MAINS.
- P.V.C. WILL BE USED. IT WILL CONFORM TO ASTM C900 STANDARDS.
- ALL WATER MAINS UNDER STREET PAVEMENT - 4 INCHES THRU 12 INCHES IN DIAMETER, IF NOT OTHERWISE SHOWN, SHALL BE AWWA C-900 PVC PIPE.
- NO A.C. PIPE WILL BE USED ON THE PROJECT.
- WATER VALVES ON MAIN LINES TO BE LOCATED AS CLOSE AS POSSIBLE TO LOT LINE.
- ALL WATER MAINS WITHIN STREET R.O.W. HAVE MINIMUM 4" COVER BELOW TOP OF CURB. WATER MAINS WITHIN EASEMENTS HAVE MINIMUM 4" COVER BELOW NATURAL GROUND.
- FLUSHING VALVE ASSEMBLIES TO BE LOCATED 3" INSIDE OF RIGHT-OF-WAY. DEFLECT WATER LINES AS SHOWN ON PLANS. SEE DETAIL SHEET FOR TYPICAL ASSEMBLY.
- ALL WATER METERS SIZED FROM 3/4" TO 2" MUST HAVE INDIVIDUAL SERVICE LEADS AND METER BOXES.
- ALL WELDED STEEL SECTIONS TO EXTEND A MINIMUM OF 5 FEET PAST BENDS AND CROSSES.
- NEW WATER LINES MUST BE DISINFECTED ACCORDING TO THE GUIDELINES ESTABLISHED IN THE "RULES AND REGULATIONS FOR PUBLIC WATER SYSTEMS".
- CONTRACTOR SHALL PROVIDE ADEQUATE THRUST BLOCKING TO WITHSTAND TEST PRESSURE SPECIFIED IN SPECIFICATION FOR WATER MAIN CONSTRUCTION AND MATERIALS WITH LATEST ADDENDA AND AMENDMENTS THERETO.
- ALL GATE VALVES, TEES, CROSSES, AND OTHER FITTINGS SHALL BE PLACED BACK OF CURB, NOT UNDER PAVEMENT.
- ALL PUBLIC WATER MAINS - 4 INCHES THRU 12 INCHES IN DIAMETER, IF NOT OTHERWISE SHOWN, SHALL BE AWWA C-900 PVC PIPE (CL-150). ALL FITTINGS ARE TO BE MECHANICAL JOINT.
- WATER VALVES ON MAIN LINES TO BE LOCATED AS CLOSE AS POSSIBLE TO LOT LINE.
- FIRE HYDRANT ASSEMBLIES TO BE LOCATED 1" INSIDE STREET R.O.W. DEFLECT WATER LINES AS SHOWN ON PLANS. SEE DETAIL SHEET FOR TYPICAL ASSEMBLY. ALL FIRE HYDRANTS SHALL BE "MUELLER" A-2401S OR APPROVED EQUAL, THREADS NATIONAL STANDARD.
- A MINIMUM OF 8 INCH CLEARANCE MUST BE MAINTAINED WHEN A WATER LINE CROSSES ANOTHER UTILITY. CURRENT TEE/CROSS REGULATIONS SHALL BE ADHERED TO WHEN CROSSING SANITARY SEWER LINES.
- ALL WELDED STEEL SECTIONS TO EXTEND A MINIMUM OF 5 FEET PAST BENDS AND CROSSES.
- ALL GATE VALVES WILL BE INSPECTED FOR ALIGNMENT (PLUMB) AND OPERATION FULL OPEN TO FULL CLOSE POSITIONS.
- CONTRACTOR SHALL PROVIDE NEW WATER SERVICE CONNECTIONS AT ALL LOCATIONS ALONG THE WATERLINE SERVICE ROUTE.
- ALL WATER METERS AND SERVICE LINES SHALL BE LOCATED AT LOT LINES, SERVICE LINES SHALL BE 1" MINIMUM OR AS SHOWN ON PLANS.

CENTER POINT ENERGY

CAUTION: UNDERGROUND GAS FACILITIES

- LOCATIONS OF CENTERPOINT ENERGY MAIN LINE (TO INCLUDE CENTERPOINT ENERGY, INTRASTATE PIPELINE LLC, WHERE APPLICABLE) ARE SHOWN IN AN APPROXIMATE LOCATION ONLY. SERVICE LINES ARE USUALLY NOT SHOWN. OUR SIGNATURE ON THESE PLANS ONLY INDICATES THAT OUR FACILITIES ARE SHOWN IN APPROXIMATE LOCATION. IT DOES NOT IMPLY THAT A CONFLICT ANALYSIS HAS BEEN MADE. THE CONTRACTOR SHALL CONTACT THE UTILITY COORDINATING COMMITTEE AT (713) 223-4567 OR 1-800-668-8344 A MINIMUM OF 48 HOURS PRIOR TO CONSTRUCTION TO HAVE MAIN AND SERVICE LINES LOCATED.
- WHEN CENTERPOINT ENERGY PIPELINE MARKINGS ARE NOT VISIBLE, CALL (713) 967-8037 (7:00 am to 4:30 pm) FOR STATUS OF LINE LOCATION REQUEST BEFORE EXCAVATION BEGINS.
 - WHEN EXCAVATING WITH EIGHTEEN INCHES (18") OF THE INDICATED LOCATION OF CENTERPOINT ENERGY FACILITIES, ALL EXCAVATION MUST BE ACCOMPLISHED USING NON-MECHANIZED EXCAVATING PROCEDURES.
 - WHEN CENTERPOINT FACILITIES ARE EXPOSED, SUFFICIENT SUPPORT MUST BE PROVIDED TO THE FACILITIES TO PREVENT EXCESSIVE STRESS ON THE PIPING. THE CONTRACTOR IS FULLY RESPONSIBLE FOR ANY DAMAGES CAUSED BY THE CONTRACTOR'S FAILURE TO EXACTLY LOCATE AND PRESERVE THESE UNDERGROUND FACILITIES.

CENTER POINT ENERGY

WARNING: OVERHEAD ELECTRICAL LINES

- OVERHEAD LINES MAY EXIST ON THE PROPERTY. THE LOCATION OF OVERHEAD LINES HAS NOT BEEN SHOWN ON THESE DRAWINGS AS THEY ARE CLEARLY VISIBLE, BUT YOU SHOULD LOCATE THEM PRIOR TO BEGINNING ANY CONSTRUCTION. TEXAS LAW, SECTION 752, HEALTH AND SAFETY CODE, FORBIDS ACTIVITIES THAT OCCUR IN CLOSE PROXIMITY TO HIGH VOLTAGE LINES, SPECIFICALLY:
- ANY ACTIVITY WHERE PERSON OR THINGS MAY COME WITHIN SIX (6) FEET OF LIVE OVERHEAD HIGH VOLTAGE LINES; AND
 - OPERATING A CRANE, DERRICK, POWER SHOVEL, DRILLING RIG, PILE DRIVER, HOISTING EQUIPMENT, OR SIMILAR APPARATUS WITHIN 10 FEET OF LIVE OVERHEAD HIGH VOLTAGE LINES.
- PARTIES RESPONSIBLE FOR THE WORK, INCLUDING CONTRACTORS, ARE LEGALLY RESPONSIBLE FOR THE SAFETY OF CONSTRUCTION WORKERS UNDER THIS LAW. THIS CARRIES BOTH CRIMINAL AND CIVIL LIABILITY. TO ARRANGE FOR LINES TO BE TURNED OFF OR MOVED, CALL CENTERPOINT ENERGY AT (713) 207-6248 OR (713) 207-2222.

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

WATER DISTRIBUTION SYSTEM GENERAL CONSTRUCTION NOTES

- THIS WATER DISTRIBUTION SYSTEM MUST BE CONSTRUCTED IN ACCORDANCE WITH THE CURRENT TEXAS COMMISSION ON ENVIRONMENTAL QUALITY (TCEQ) RULES AND REGULATIONS FOR PUBLIC WATER SYSTEMS 30 TEXAS ADMINISTRATIVE CODE (TAC) CHAPTER 290 SUBCHAPTER D.
- ALL NEWLY INSTALLED PIPES AND RELATED PRODUCTS MUST CONFORM TO AMERICAN NATIONAL STANDARDS INSTITUTE/NATIONAL SANITATION FOUNDATION (ANSI/NSF) STANDARD 61 AND MUST BE CERTIFIED BY AN ORGANIZATION ACCREDITED BY ANSI.
- PLASTIC PIPE FOR USE IN PUBLIC WATER SYSTEMS MUST BEAR THE NATIONAL SANITATION FOUNDATION SEAL OF APPROVAL (NSF-PW) AND HAVE AN ASTM DESIGN PRESSURE RATING OF AT LEAST 150 PSI OR A STANDARD DIMENSION RATIO OF 26 OR LESS.
- NO PIPE WHICH HAS BEEN USED FOR ANY PURPOSE OTHER THAN THE CONVEYANCE OF DRINKING WATER SHALL BE ACCEPTED OR RELOCATED FOR USE IN ANY PUBLIC DRINKING WATER SUPPLY.
- WATER TRANSMISSION AND DISTRIBUTION LINES MUST BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS. HOWEVER, THE TOP OF THE WATER LINE MUST BE LOCATED BELOW THE FROST LINE. AND IN NO CASE SHALL THE TOP OF THE WATER LINE BE LESS THAN 24 INCHES BELOW GROUND SURFACE.
- THE HYDROSTATIC LEAKAGE RATE SHALL NOT EXCEED THE AMOUNT ALLOWED OR RECOMMENDED BY AWWA FORMULA FOR PVC PIPE: $L = \frac{(N)(D)(P)}{7,400}$. THE FORMULA FOR DUCTILE OR CAST IRON PIPE IS $L = \frac{(S)(D)(P)}{133,200}$.
- THE USE OF PIPES AND PIPE FITTINGS THAT CONTAIN MORE THAN 8.0% LEAD OR SOLDER AND FLUX THAT CONTAINS MORE THAN 0.2% LEAD IS PROHIBITED IN THE FOLLOWING CIRCUMSTANCES FOR INSTALLATION OR REPAIR OF ANY PUBLIC WATER SUPPLY AND FOR INSTALLATION OR REPAIR OF ANY PLUMBING IN A RESIDENTIAL OR NONRESIDENTIAL FACILITY PROVIDING WATER FOR HUMAN CONSUMPTION AND CONNECTED TO A PUBLIC DRINKING WATER SUPPLY SYSTEM.
- THE CONTRACTOR SHALL INSTALL APPROPRIATE AIR RELEASE DEVICES IN THE DISTRIBUTION SYSTEM AT ALL POINTS WHERE TOPOGRAPHY OR OTHER FACTORS MAY CREATE AIR LOCKS IN THE LINES. ALL AIR RELEASE DEVICES TO THE ATMOSPHERE SHALL BE COVERED WITH 18-MESH OR FINEER, CORROSION RESISTANT SCREENING MATERIAL OR AN ACCEPTABLE EQUIVALENT. THE SYSTEM SHALL BE DESIGNED TO AFFORD EFFECTIVE CIRCULATION OF WATER WITH A MINIMUM OF DEAD ENDS. ALL DEAD-END MAINS SHALL BE PROVIDED WITH ACCEPTABLE FLUSH VALVES AND DISCHARGE PIPING. ALL DEAD-END LINES LESS THAN TWO INCHES IN DIAMETER WILL NOT REQUIRE FLUSH VALVES IF THEY END AT A CUSTOMER SERVICE. WHERE DEAD ENDS ARE NECESSARY AS A STAGE IN THE GROWTH OF THE SYSTEM, THEY SHALL BE LOCATED AND ARRANGED TO ULTIMATELY CONNECT THE ENDS TO PROVIDE CIRCULATION.
- THE CONTRACTOR SHALL MAINTAIN A MINIMUM SEPARATION DISTANCE IN ALL DIRECTIONS OF NINE FEET BETWEEN THE PROPOSED WATERLINE AND WASTEWATER COLLECTION FACILITIES INCLUDING MANHOLES AND SEPTIC TANK DRAINFIELDS. IF THIS DISTANCE CANNOT BE MAINTAINED, THE CONTRACTOR MUST IMMEDIATELY NOTIFY THE PROJECT ENGINEER FOR FURTHER DIRECTION. SEPARATION DISTANCES, INSTALLATION METHODS, AND MATERIALS UTILIZED MUST MEET §290.44(E) OF THE CURRENT RULES.
- THE CONTRACTOR SHALL NOT PLACE THE PIPE IN WATER OR WHERE IT CAN BE FLOODED WITH WATER OR SEWAGE DURING ITS STORAGE OR INSTALLATION.
- THE CONTRACTOR SHALL DISINFECT THE NEW WATER MAINS IN ACCORDANCE WITH AWWA STANDARD C651 AND THEN FLUSH AND SAMPLE THE LINES BEFORE BEING PLACED INTO SERVICE. SAMPLES SHALL BE COLLECTED FOR MICRO BIOLOGICAL ANALYSIS TO CHECK THE EFFECTIVENESS OF THE DISINFECTION PROCEDURE WHICH SHALL BE REPEATED IF CONTAMINATION PERSISTS. A MINIMUM OF ONE SAMPLE FOR EACH 1,000 FEET OF COMPLETED WATER LINE WILL BE REQUIRED OR AT THE NEXT AVAILABLE SAMPLING POINT BEYOND 1,000 FEET AS DESIGNATED BY THE DESIGN ENGINEER.

PIPELINE INFORMATION

HOUSTON PIPELINE
CONTACT: CORY PARTON 281-850-1417 (FIELD)
CONTACT: KAREN DODD 832-668-1137 (PLANS)

NETCO PIPELINE
CONTACT: RICHARD HINES 585-615-5184 (FIELD)

MONUMENT PIPELINE
CONTACT: JOSH BOWSLER 832-451-4268 (FIELD)

KINDER MORGAN PIPELINE
CONTACT: MIKE LUNA 713-539-9846 (FIELD)

WINDSTREAM FACILITIES

- THE LOCATIONS OF WINDSTREAM FACILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION BEFORE CONSTRUCTION AND THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE OCCASIONED BY THIS FAILURE TO EXACTLY LOCATE AND PRESERVE THESE UNDERGROUND UTILITIES.
 - THE CONTRACTOR SHALL CALL 1-800-344-8377 A MINIMUM OF 48 HOURS PRIOR TO CONSTRUCTION TO HAVE UNDERGROUND LINES FIELD LOCATED.
 - WHEN EXCAVATING WITHIN EIGHTEEN INCHES (18") OF THE INDICATED LOCATION OF WINDSTREAM FACILITIES, ALL EXCAVATIONS MUST BE ACCOMPLISHED USING NON-MECHANIZED EXCAVATION PROCEDURES. WHEN BORING, THE CONTRACTOR SHALL EXPOSE THE WINDSTREAM FACILITIES.
 - WHEN WINDSTREAM FACILITIES ARE EXPOSED, THE CONTRACTOR WILL PROVIDE SUPPORT TO PREVENT DAMAGE TO THE CONDUIT DUCTS OR CABLES. WHEN EXCAVATING NEAR TELEPHONE POLES THE CONTRACTOR SHALL BRACE THE POLE FOR SUPPORT.
- TXDOT**
- TXDOT SHALL BE NOTIFIED 48 HOURS PRIOR TO THE START OF ANY CONSTRUCTION USING THE UIR SYSTEM. CONTACT TXDOT ONCE THE CONSTRUCTION IS COMPLETE.
 - CONTRACTOR SHALL CONTACT ISRAEL CUELLAR AT (281)238-7955 PRIOR TO BEGINNING WORK TO OBTAIN AN APPROVED TRAFFIC CONTROL PLAN.
 - NO DIRT NUISANCE TO ROADWAY.
 - ALL SURPLUS MATERIAL SHALL BE REMOVED FROM THE RIGHT-OF-WAY AND THE EXCAVATION FINISHED FLUSH WITH SURROUNDING NATURAL GROUND.
 - NO BONE BITS TO BE LEFT UNPROTECTED.
 - CONTACT ISRAEL CUELLAR WHEN JOB STARTS AND IS COMPLETED.

FORT BEND COUNTY GENERAL NOTES:

- CONTRACTOR SHALL NOTIFY FORT BEND COUNTY ENGINEERING DEPARTMENT 48 HOURS PRIOR TO COMMENCING CONSTRUCTION AND 24 HOURS PRIOR TO ANY PAVING OPERATIONS AT CONSTRUCTION@FORTBENDCOUNTYTX.GOV.
- CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL PERMITS REQUIRED FROM FORT BEND COUNTY PRIOR TO COMMENCING CONSTRUCTION OF ANY IMPROVEMENTS WITHIN COUNTY ROAD RIGHT OF WAYS.
- ALL PAVING IMPROVEMENTS SHALL BE CONSTRUCTED IN ACCORDANCE WITH FORT BEND COUNTY RULES, REGULATIONS AND REQUIREMENTS RELATING TO THE APPROVAL AND ACCEPTANCE OF IMPROVEMENTS IN SUBDIVISIONS AS CURRENTLY AMENDED.
- ALL ROAD WIDTHS, CURB RADI AND CURB ALIGNMENT SHOWN INDICATES BACK OF CURB.
- A CONTINUOUS LONGITUDINAL REINFORCING BAR SHALL BE USED IN THE CURBS.
- ALL CONCRETE PAVEMENT SHALL BE 5-1/2" SACK CEMENT WITH A MINIMUM COMPRESSIVE STRENGTH OF 3500 PSI AT 28 DAYS. TRANSVERSE EXPANSION JOINTS SHALL BE INSTALLED AT EACH CURB RETURN AND AT A MAXIMUM SPACING OF 80 FEET.
- ACCESS TO ALL EXISTING STREETS AND DRIVEWAYS SHALL BE MAINTAINED AT ALL TIMES.
- 4"x12" REINFORCED CONCRETE CURB SHALL BE PLACED IN FRONT OF SINGLE FAMILY LOTS ONLY. ALL OTHER AREAS SHALL BE 6" REINFORCED CONCRETE CURB.
- AT ALL INTERSECTION LOCATIONS, TYPE 7 RAMPS SHALL BE PLACED IN ACCORDANCE WITH TXDOT PED-12A STANDARD DETAIL SHEET. A.D.A. - HANDICAP RAMPS SHALL BE INSTALLED WITH STREET PAVING AT ALL INTERSECTIONS AND COMPLY WITH CURRENT A.D.A. REGULATIONS.
- CURB HEADERS ARE REQUIRED AT CURB CONNECTIONS TO HANDICAP RAMPS, WITH NO CONSTRUCTION JOINT WITHIN 5' OF RAMPS.
- ALL INTERSECTIONS UTILIZING TRAFFIC CONTROL MEASURES SHALL HAVE A.D.A. WHEEL CHAIR RAMPS INSTALLED.
- GUIDELINES ARE SET FORTH IN THE TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES". AS CURRENTLY AMENDED, SHALL BE OBSERVED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ADEQUATE FLAGMEN, SIGNING, STRIPING AND WARNING DEVICES, ETC., DURING CONSTRUCTION - BOTH DAY AND NIGHT.
- ALL R1-1 STOP SIGNS SHALL BE 30"x30" WITH DIAMOND GRADE SHEETING. STREET NAME SIGNS SHALL BE UPPER AND LOWER CASE LETTERS WITH DIAMOND GRADE SHEETING.
- A BLUE DOUBLE REFLECTORIZED BUTTON SHALL BE PLACED AT ALL FIRE HYDRANT LOCATIONS. THE BUTTON SHALL BE PLACED 12 INCHES OFF OF THE CENTERLINE OF THE STREET ON THE SAME SIDE AS THE HYDRANT.

BENCHMARK INFORMATION:

- CONTROL POINT #75**
1" IRON ROD WITH A NORTH FORT BEND WATER AUTHORITY ALUMINUM CAP SET 49.2' EAST OF OBIEN ROAD IN A PIPELINE EASEMENT APPROX. 2,400' SOUTH OF BEECHNUT STREET.
ELEV. 94.15' NAVD-88, 2002 ADJ.
- CONTROL POINT #76**
1" IRON ROD WITH A NORTH FORT BEND WATER AUTHORITY ALUMINUM CAP SET APPROX. 200' SOUTH OF BEECHNUT STREET ON THE EAST SIDE OF FM 1464, JUST SOUTH OF THE 1464 PLAZA STRIP MALL. ELEV. 92.22' NAVD-88, 2002 ADJ.
- CONTROL POINT #77**
1" IRON ROD WITH A NORTH FORT BEND WATER AUTHORITY ALUMINUM CAP SET APPROX. 1,100' NORTH OF BEECHNUT STREET ON THE EAST SIDE OF FM 1464, JUST SOUTH OF THE 1464 PLAZA STRIP MALL. ELEV. 92.22' NAVD-88, 2002 ADJ.
- CONTROL POINT #80**
1" IRON ROD WITH A NORTH FORT BEND WATER AUTHORITY ALUMINUM CAP SET IN THE MEDIAN EAST OF THE INTERSECTION OF BELLARINE BOULEVARD AND FM 1464 10.8 FEET EAST OF THE END OF THE MEDIAN. ELEV. 93.47' NAVD-88, 2002 ADJ.
- FEMA NOTE:**
SITE IS LOCATED IN ZONE 'X' PER MAP PANEL. NUMBERS: 481157C0110J & 0120J.

REVISIONS			
NUMBER	DESCRIPTION	DATE	INITIALS

APPROVED: *[Signature]*
DEVELOPMENT COORDINATOR

DATE: *7/3/17*

J.A. COSTANZA & ASSOCIATES
ENGINEERING, INC.
100 DOWNTOWN ST. SUITE 1000 HOUSTON, TX 77002
713.594.1111 FAX 713.594.1112

FORT BEND COUNTY M.U.D. NO. 30
FM 1464 - PHASE I
12" WATERLINE IMPROVEMENTS

GENERAL NOTES

NOTE: CITY SIGNATURES VALID FOR ONE YEAR ONLY AFTER DATE OF SIGNATURES

CITY OF HOUSTON
DEPARTMENT OF PUBLIC WORKS AND ENGINEERING

WATER DIVISION
STORM DIVISION
STREET & BRIDGE

FILE NO: F003-1009

DRAWING SCALE: N.T.S.

SHEET No: 2 OF 42

FOR CITY OF HOUSTON USE ONLY

58731

NORTH FORT BEND WATER AUTHORITY		SEGMENT 2 CONTROL POINT 75 - SHEET 1
CONTROL POINT NUMBER 75 KEY MAP PAGE: 527-N	GRID COORDINATES Y: 13,809,073.55 X: 3,020,213.52	VERTICAL DATUM: NAVD-88
HORIZONTAL DATUM: NAD83	SURFACE COORDINATES Y: 13,810,868.73 X: 3,020,806.15	VERTICAL ADJUSTMENT 2002 ADJ (SEE VERTICAL NOTES)
HORIZONTAL ADJUSTMENT (CORS 98 - EPOCH 2002)	SCALE FACTOR: 1.00013	POINT ESTABLISHED BY RTK
MARKER: ALUMINUM CAP	ELEVATION 94.15 FT.	POINTS DIRECTLY TIED: 19, 20 & 23 UPDATED JUNE, 2010
STAMPING: "NORTH FORT BEND WATER AUTHORITY 75"		
GEODETIC COORDINATES: LATITUDE: N 29° 41' 14.92612" LONGITUDE: W 95° 41' 14.72726"		VERTICAL NOTES: THIS SURVEY IS CONstrained TO THE NGS PUBLISHED ELEVATION FOR THE NORTHEAST 2250 CORNERS ADJUSTED BY NGS IN 2002 AND PUBLISHED AS PID A8805, EPOCH DATE 2002.
DESCRIPTION: CONTROL POINT IS A 5/8-INCH IRON ROD WITH A NORTH FORT BEND WATER AUTHORITY ALUMINUM CAP SET 49.2-FEET EAST OF ORCHARD ROAD IN A PIPELINE EASEMENT APPROXIMATELY 2,400-FEET SOUTH OF BEECHNUT STREET.		

NORTH FORT BEND WATER AUTHORITY		SEGMENT 2 CONTROL POINT 76 - SHEET 1
CONTROL POINT NUMBER 76 KEY MAP PAGE: 527-N	GRID COORDINATES Y: 13,810,949.54 X: 3,020,113.19	VERTICAL DATUM: NAVD-88
HORIZONTAL DATUM: NAD83	SURFACE COORDINATES Y: 13,812,744.97 X: 3,020,505.80	VERTICAL ADJUSTMENT 2002 ADJ (SEE VERTICAL NOTES)
HORIZONTAL ADJUSTMENT (CORS 98 - EPOCH 2002)	SCALE FACTOR: 1.00013	POINT ESTABLISHED BY RTK
MARKER: ALUMINUM CAP	ELEVATION 92.92 FT.	POINTS DIRECTLY TIED: 19, 20 & 23 UPDATED JUNE, 2010
STAMPING: "NORTH FORT BEND WATER AUTHORITY 76"		
GEODETIC COORDINATES: LATITUDE: N 29° 41' 00.52954" LONGITUDE: W 95° 41' 13.28208"		VERTICAL NOTES: THIS SURVEY IS CONstrained TO THE NGS PUBLISHED ELEVATION FOR THE NORTHEAST 2250 CORNERS ADJUSTED BY NGS IN 2002 AND PUBLISHED AS PID A8805, EPOCH DATE 2002.
DESCRIPTION: CONTROL POINT IS A 5/8-INCH IRON ROD WITH A NORTH FORT BEND WATER AUTHORITY ALUMINUM CAP SET APPROXIMATELY 200-FEET SOUTH OF BEECHNUT STREET 17.9-FEET EAST OF ORCHARD ROAD.		

NORTH FORT BEND WATER AUTHORITY		SEGMENT 2 CONTROL POINT 77 - SHEET 1
CONTROL POINT NUMBER 77 KEY MAP PAGE: 527-J	GRID COORDINATES Y: 13,812,873.17 X: 3,019,996.39	VERTICAL DATUM: NAVD-88
HORIZONTAL DATUM: NAD83	SURFACE COORDINATES Y: 13,814,466.82 X: 3,020,388.99	VERTICAL ADJUSTMENT 2002 ADJ (SEE VERTICAL NOTES)
HORIZONTAL ADJUSTMENT (CORS 98 - EPOCH 2002)	SCALE FACTOR: 1.00013	POINT ESTABLISHED BY RTK
MARKER: ALUMINUM CAP	ELEVATION 92.22 FT.	POINTS DIRECTLY TIED: 19, 20 & 23 UPDATED JUNE, 2010
STAMPING: "NORTH FORT BEND WATER AUTHORITY 77"		
GEODETIC COORDINATES: LATITUDE: N 29° 41' 17.61977" LONGITUDE: W 95° 41' 16.03241"		VERTICAL NOTES: THIS SURVEY IS CONstrained TO THE NGS PUBLISHED ELEVATION FOR THE NORTHEAST 2250 CORNERS ADJUSTED BY NGS IN 2002 AND PUBLISHED AS PID A8805, EPOCH DATE 2002.
DESCRIPTION: CONTROL POINT IS A 5/8-INCH IRON ROD WITH A NORTH FORT BEND WATER AUTHORITY ALUMINUM CAP SET APPROXIMATELY 1,100-FEET NORTH OF BEECHNUT STREET ON THE EAST SIDE OF F.M. 1464, JUST SOUTH OF THE 1464 PLAZA STRIPMALL.		

NORTH FORT BEND WATER AUTHORITY		SEGMENT 2 CONTROL POINT 80 - SHEET 1
CONTROL POINT NUMBER 80 KEY MAP PAGE: 527-E	GRID COORDINATES Y: 13,817,313.07 X: 3,018,834.78	VERTICAL DATUM: NAVD-88
HORIZONTAL DATUM: NAD83	SURFACE COORDINATES Y: 13,819,109.32 X: 3,020,227.33	VERTICAL ADJUSTMENT 2002 ADJ (SEE VERTICAL NOTES)
HORIZONTAL ADJUSTMENT (CORS 98 - EPOCH 2002)	SCALE FACTOR: 1.00013	POINT ESTABLISHED BY RTK
MARKER: ALUMINUM CAP	ELEVATION 93.47 FT.	POINTS DIRECTLY TIED: 19, 20 & 23
STAMPING: "NORTH FORT BEND WATER AUTHORITY 80"		
GEODETIC COORDINATES: LATITUDE: N 29° 42' 03.56281" LONGITUDE: W 95° 41' 16.37459"		VERTICAL NOTES: THIS SURVEY IS CONstrained TO THE NGS PUBLISHED ELEVATION FOR THE NORTHEAST 2250 CORNERS ADJUSTED BY NGS IN 2002 AND PUBLISHED AS PID A8805, EPOCH DATE 2002.
DESCRIPTION: CONTROL POINT IS A 5/8-INCH IRON ROD WITH A NORTH FORT BEND WATER AUTHORITY ALUMINUM CAP SET IN THE BELLAIR EAST OF THE INTERSECTION OF BELLAIR BOULEVARD AND F.M. 1464 10.8-FEET EAST OF THE END OF THE MEDIAN.		

REVISIONS			
NUMBER	DESCRIPTION	DATE	INITIALS

APPROVED: DEVELOPMENT COORDINATOR

DATE: 9/3/17

JACOSTANZA & ASSOCIATES
CIVIL ENGINEERS, P.C.
4401 GARDEN ST., SUITE 200, HOUSTON, TEXAS 77056-4004

FORT BEND COUNTY M.U.D. NO. 30
FM 1464 - PHASE I
12" WATERLINE IMPROVEMENTS

CONTROL POINT REFERENCE SHEET

NOTE: CITY SIGNATURES VALID FOR ONE YEAR ONLY AFTER DATE OF SIGNATURES

CITY OF HOUSTON
DEPARTMENT OF PUBLIC WORKS AND ENGINEERING

WATER: DEPARTMENT OF PUBLIC WORKS AND ENGINEERING

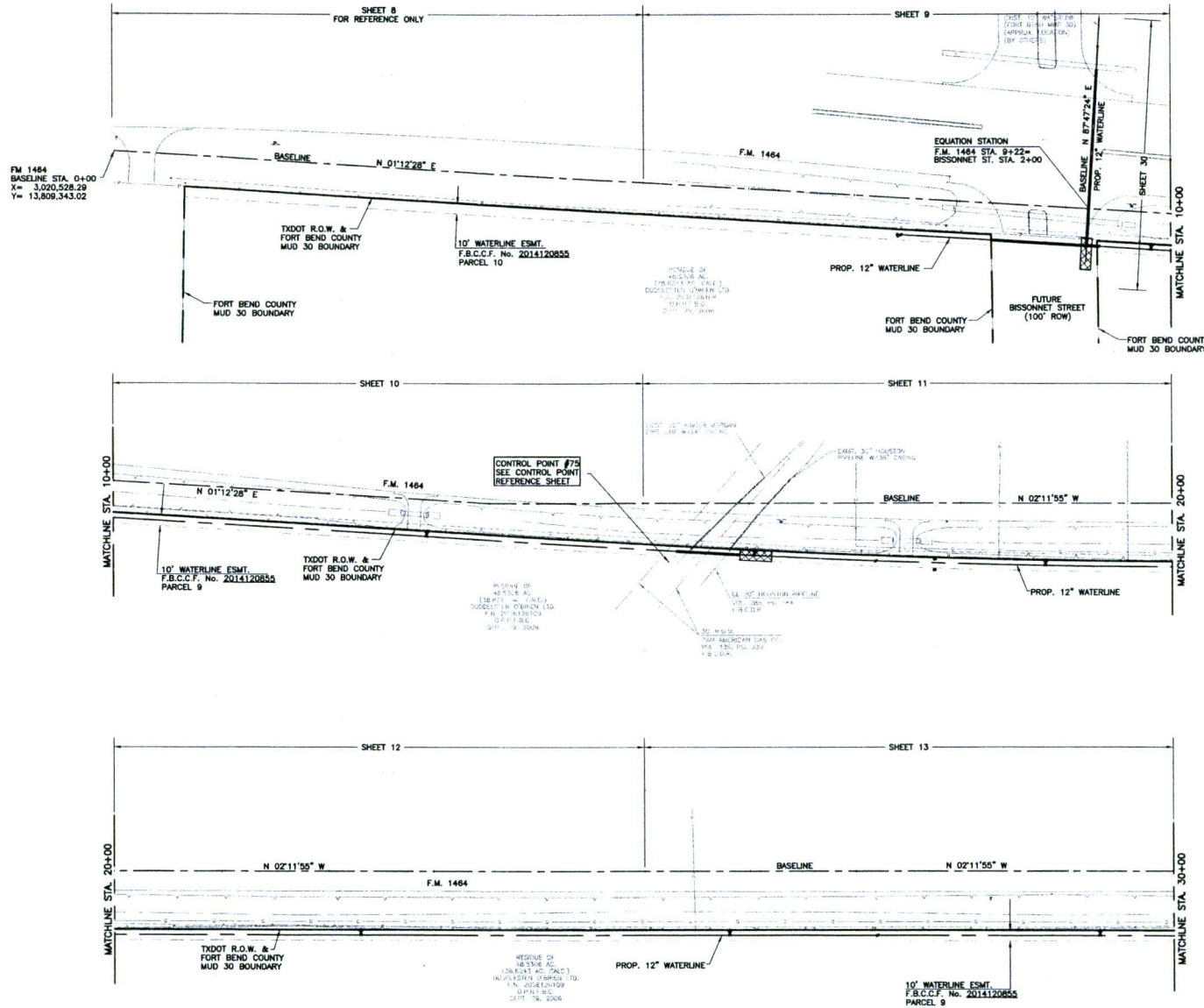
STREET & BRIDGE: DEPARTMENT OF PUBLIC WORKS AND ENGINEERING

FILE NO: FD03-1009 FOR CITY OF HOUSTON USE ONLY

DRAWING SCALE: N.T.S.

SHEET No: 4 OF 42

5/8/17



BENCHMARK INFORMATION:

CONTROL POINT #75
 1" IRON ROD WITH A NORTH FORT BEND WATER AUTHORITY ALUMINUM CAP SET 49.2-FOOT EAST OF OBRIEN ROAD IN A PIPELINE EASEMENT APPROX. 2,400-FOOT SOUTH OF BEECHNUT STREET. ELEV. 94.15 NAVD-88, 2002 ADJ.

CONTROL POINT #76
 1" IRON ROD WITH A NORTH FORT BEND WATER AUTHORITY ALUMINUM CAP SET APPROX. 200' SOUTH OF BEECHNUT STREET & 17.9' EAST OF OBRIEN ROAD. ELEV. 92.92 NAVD-88, 2002 ADJ.

CONTROL POINT #77
 1" IRON ROD WITH A NORTH FORT BEND WATER AUTHORITY ALUMINUM CAP SET APPROX. 1,100' NORTH OF BEECHNUT STREET ON THE EAST SIDE OF FM 1464, JUST SOUTH OF THE 1464 PLAZA STRIP MALL. ELEV. 92.22 NAVD-88, 2002 ADJ.

CONTROL POINT #80
 1" IRON ROD WITH A NORTH FORT BEND WATER AUTHORITY ALUMINUM CAP SET IN THE MEDIAN EAST OF THE INTERSECTION OF BELLAIRE BLVD. AND F.M. 1464 10.8-FOOT EAST OF THE END OF THE MEDIAN. ELEV. 92.22 NAVD-88, 2002 ADJ.

UTILITY NOTES

ALL ATTEMPTS HAVE BEEN MADE TO ACCURATELY SHOW ALL EXISTING UNDERGROUND UTILITIES AND PIPELINES. HOWEVER, IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO HAVE THE UTILITY AND PIPELINES PHYSICALLY LOCATED IN THE FIELD PRIOR TO CONSTRUCTION. ALL LIABILITY FOR THE UTILITIES AND PIPELINES ARE SOLELY THE CONTRACTOR'S WHETHER SHOWN ON THE PLANS OR NOT.

CAUTION: UNDERGROUND GAS FACILITIES
 LOCATION OF GAS LINES ARE SHOWN IN AN APPROXIMATE LOCATION ONLY. SERVICE LINES ARE USUALLY NOT SHOWN. THE CONTRACTOR SHALL CONTACT THE UTILITY COORDINATING COMMITTEE AT 713-223-4567 OR 1-800-569-8344 A MINIMUM OF 48 HOURS PRIOR TO CONSTRUCTION TO HAVE MAIN AND SERVICE LINES FIELD LOCATED. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION BEFORE COMMENCING WORK AND AGREE TO BE FULLY RESPONSIBLE FOR ANY DAMAGES CAUSED BY HIS FAILURE TO EXACTLY LOCATED AND PRESERVE THESE UNDERGROUND FACILITIES.

WARNING:
 OVERHEAD LINES MAY EXIST ON THE PROPERTY. WE HAVE NOT ATTEMPTED TO MARK THOSE LINES SINCE THEY ARE CLEARLY VISIBLE, BUT CONTRACTOR SHOULD LOCATE THEM PRIOR TO BEGINNING ANY CONSTRUCTION. TEXAS LAW, SECTION 752, HEALTH & SAFETY CODE, FORBIDS ALL ACTIVITIES IN WHICH PERSONS OR THINGS MAY COME WITHIN SIX (6) FEET OF LIVE OVERHEAD HIGH VOLTAGE LINES. CONTRACTOR AND OWNERS ARE LEGALLY RESPONSIBLE FOR SAFETY OF CONSTRUCTION WORKERS UNDER THIS LAW. THIS LAW CARRIES BOTH CRIMINAL AND CIVIL LIABILITY.

REVISIONS	DATE	BY

APPROVED: *[Signature]*
 DEVELOPMENT COORDINATOR
 DATE: 7/7/17



FORT BEND COUNTY M.U.D. NO. 30
 FM 1464 - PHASE I
 12" WATERLINE IMPROVEMENTS
 PROJECT LAYOUT
 STA. 0+00 TO STA. 30+00

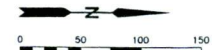
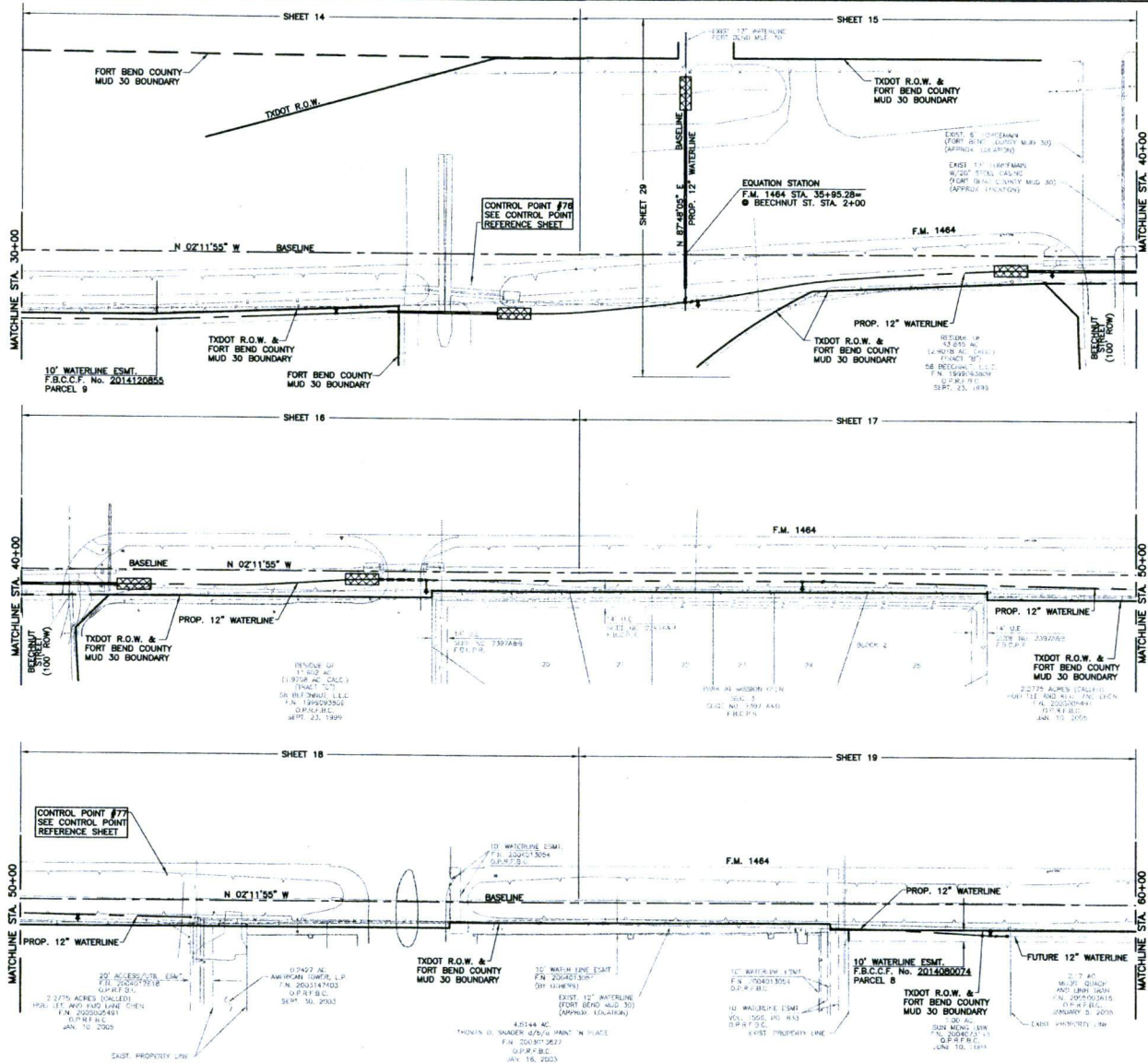
NOTE: CITY SIGNATURES VALID FOR ONE YEAR ONLY AFTER DATE OF SIGNATURES

CITY OF HOUSTON
 DEPARTMENT OF PUBLIC WORKS AND ENGINEERING

DATE: 7/17/17
 BY: *[Signature]*
 FOR CITY OF HOUSTON USE ONLY

FILE NO: P003-1009
 DRAWING SCALE: 1"=50'
 SHEET NO: 5 OF 42





BENCHMARK INFORMATION:

CONTROL POINT #75
 1" IRON ROD WITH A NORTH FORT BEND WATER AUTHORITY ALUMINUM CAP SET 49.2-FOOT EAST OF OBRIEN ROAD IN A PIPELINE EASEMENT APPROX. 2,400-FOOT SOUTH OF BEECHNUT STREET. ELEV. 94.15 NAVD-88, 2002 ADJ.

CONTROL POINT #76
 1" IRON ROD WITH A NORTH FORT BEND WATER AUTHORITY ALUMINUM CAP SET APPROX. 200' SOUTH OF BEECHNUT STREET & 17.5' EAST OF OBRIEN ROAD. ELEV. 92.92 NAVD-88, 2002 ADJ.

CONTROL POINT #77
 1" IRON ROD WITH A NORTH FORT BEND WATER AUTHORITY ALUMINUM CAP SET APPROX. 1,100' NORTH OF BEECHNUT STREET ON THE EAST SIDE OF FM 1464, JUST SOUTH OF THE 1464 PLAZA STRIP WALL. ELEV. 92.22 NAVD-88, 2002 ADJ.

CONTROL POINT #80
 1" IRON ROD WITH A NORTH FORT BEND WATER AUTHORITY ALUMINUM CAP SET IN THE MEDIAN EAST OF THE INTERSECTION OF BELLAIRE BLVD. AND F.M. 1464 10.8-FOOT EAST OF THE END OF THE MEDIAN. ELEV. 92.22 NAVD-88, 2002 ADJ.

UTILITY NOTES

ALL ATTEMPTS HAVE BEEN MADE TO ACCURATELY SHOW ALL EXISTING UNDERGROUND UTILITIES AND PIPELINES. HOWEVER, IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO HAVE THE UTILITIES AND PIPELINES PHYSICALLY LOCATED IN THE FIELD PRIOR TO CONSTRUCTION. ALL LIABILITY FOR THE UTILITIES AND PIPELINES ARE SOLELY THE CONTRACTOR'S WHETHER SHOWN ON THE PLANS OR NOT.

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WARNING:
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REVISIONS

NUMBER	DESCRIPTION	DATE	INITIALS
1	ISSUED FOR PERMIT	7/18/17	MR
2	FOR CITY OF HOUSTON	7/18/17	MR

APPROVED: *[Signature]*
 DEVELOPMENT COORDINATOR
 DATE: 7/18/17



FORT BEND COUNTY M.U.D. NO. 30
 FM 1464 - PHASE I
 12" WATERLINE IMPROVEMENTS

PROJECT LAYOUT
 STA. 30+00 TO STA. 60+00

NOTE: CITY SIGNATURES VALID FOR ONE YEAR ONLY AFTER DATE OF SIGNATURES

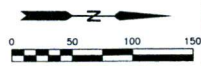
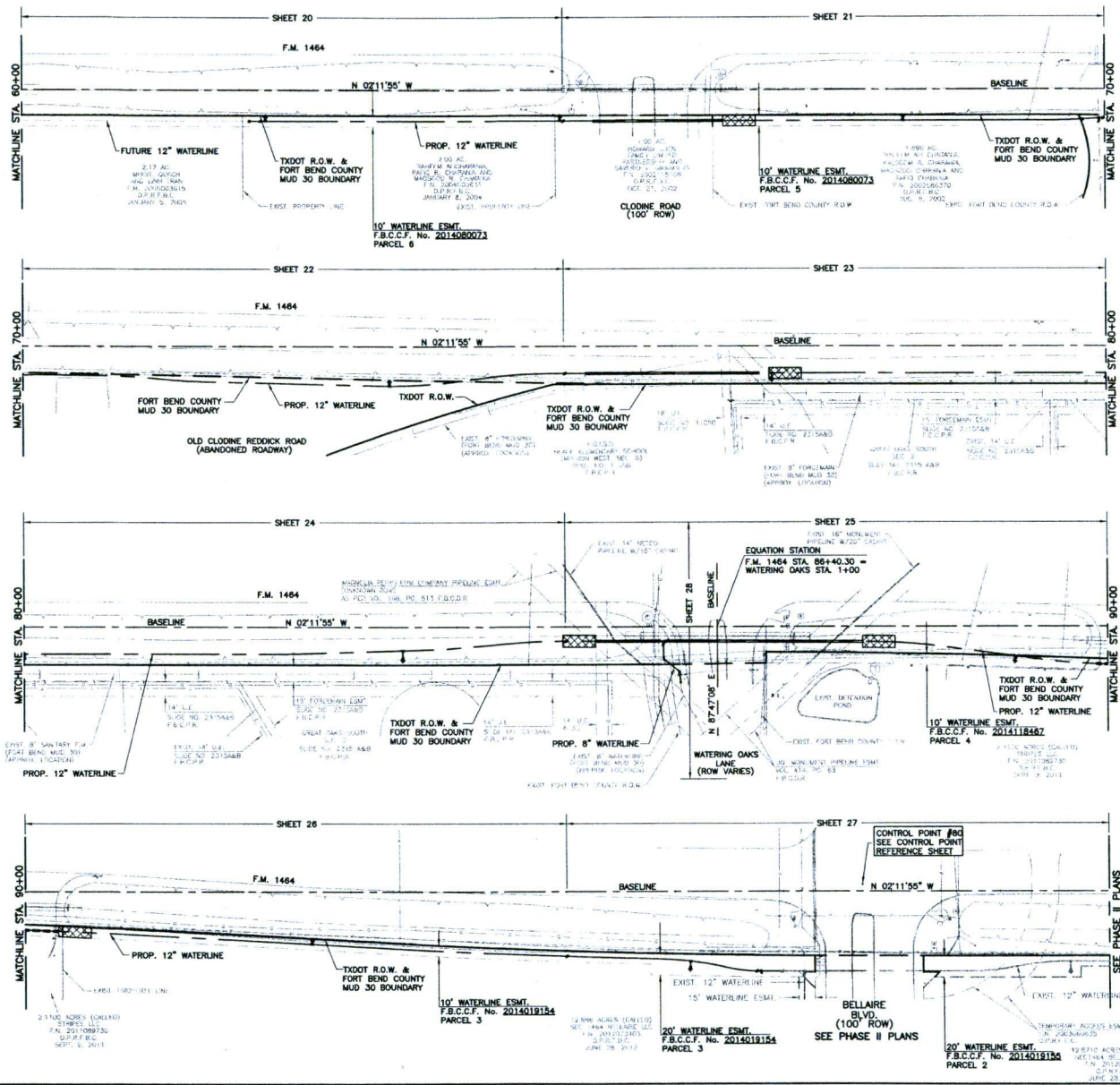
CITY OF HOUSTON
 DEPARTMENT OF PUBLIC WORKS AND ENGINEERING

DATE: 7/18/17
 BY: *[Signature]*
 FOR CITY OF HOUSTON USE ONLY

FILE NO:
 F003-1009

DRAWING SCALE
 1"=50'

SHEET
 No: 6 OF 42



BENCHMARK INFORMATION:

CONTROL POINT #75
 1" IRON ROD WITH A NORTH FORT BEND WATER AUTHORITY ALUMINUM CAP SET APPROX. 200 SOUTH OF BEECHNUT STREET & 17.9' EAST OF BEECHNUT STREET. ELEV. 92.92 NAVD-83, 2002 ADJ.

CONTROL POINT #78
 1" IRON ROD WITH A NORTH FORT BEND WATER AUTHORITY ALUMINUM CAP SET APPROX. 200 SOUTH OF BEECHNUT STREET & 17.9' EAST OF BEECHNUT STREET. ELEV. 92.92 NAVD-83, 2002 ADJ.

CONTROL POINT #77
 1" IRON ROD WITH A NORTH FORT BEND WATER AUTHORITY ALUMINUM CAP SET APPROX. 1,100' NORTH OF BEECHNUT STREET ON THE EAST SIDE OF FM 1464, JUST SOUTH OF THE 1464 PRADA STRIP MALL. ELEV. 92.22 NAVD-83, 2002 ADJ.

CONTROL POINT #80
 1" IRON ROD WITH A NORTH FORT BEND WATER AUTHORITY ALUMINUM CAP SET IN THE MEDIAN EAST OF THE INTERSECTION OF BELLAIRE BLVD. AND F.M. 1464 10.8- FEET EAST OF THE END OF THE MEDIAN. ELEV. 92.22 NAVD-83, 2002 ADJ.

UTILITY NOTES

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NUMBER	DESCRIPTION	DATE	NOTES

APPROVED: *[Signature]*
 DEVELOPMENT COORDINATOR

DATE: 9/2/17

J. COSTANZA & ASSOCIATES
 PROFESSIONAL ENGINEERS AND ARCHITECTS
 1400 WEST 19TH STREET, SUITE 200
 HOUSTON, TEXAS 77058-1100
 TEL: 713-865-1100
 FAX: 713-865-1101
 WWW.JCA-ASSOCIATES.COM

FORT BEND COUNTY M.U.D. NO. 30
 FM 1464 - PHASE I
 12" WATERLINE IMPROVEMENTS

PROJECT LAYOUT
 STA. 60+00 TO 100+00

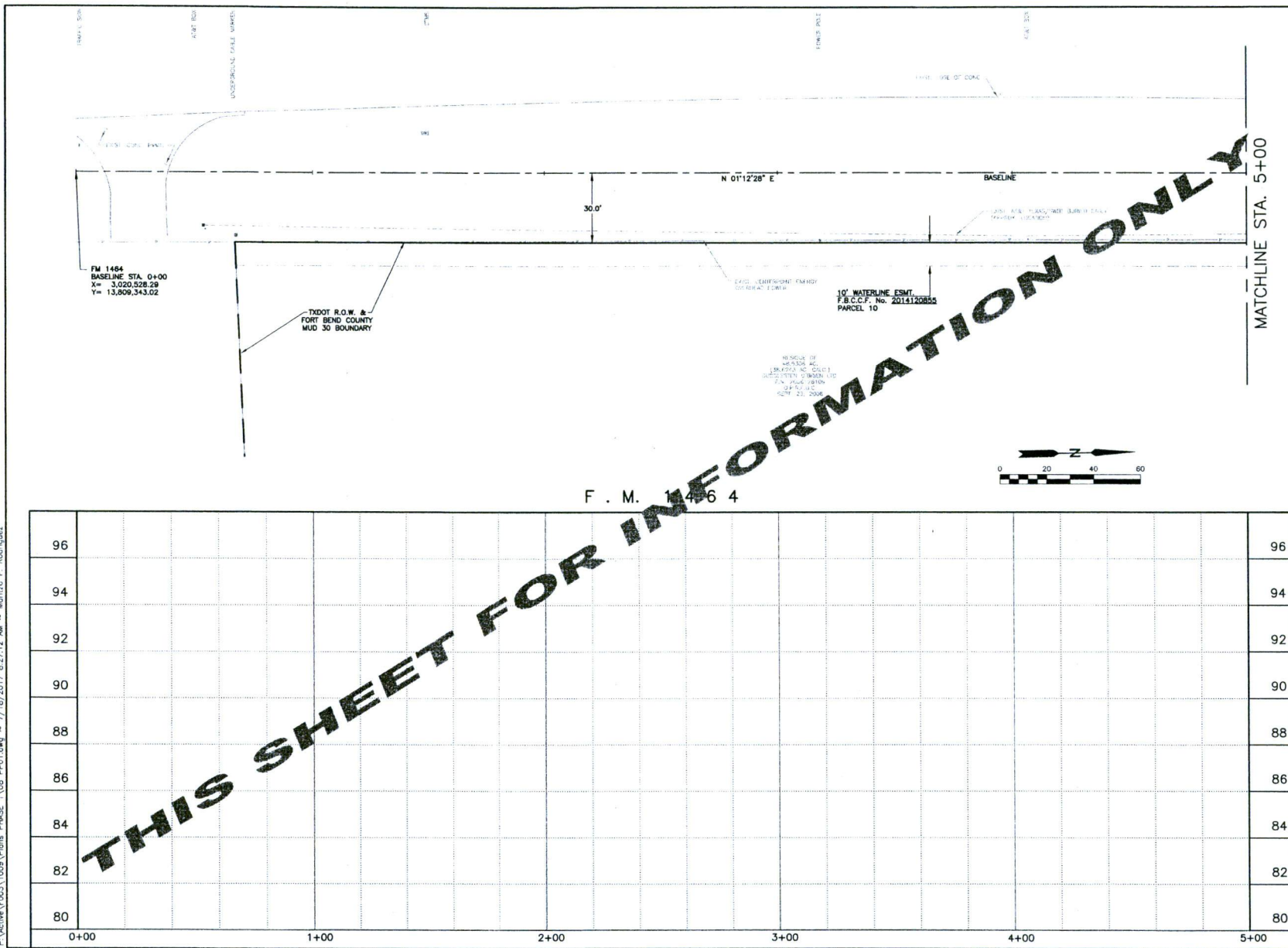
NOTE: CITY SIGNATURES VALID FOR ONE YEAR ONLY
 AFTER DATE OF SIGNATURES

CITY OF HOUSTON
 DEPARTMENT OF PUBLIC WORKS AND ENGINEERING

DATE: 9/2/17
 BY: *[Signature]*
 FOR: *[Signature]*
 TITLE: *[Signature]*

FILE NO: P003-1009
 DRAWING SCALE: 1"=50'
 SHEET NO: 7 OF 42

FOR CITY OF HOUSTON USE ONLY
 RECEIVED AND RECORDED
 DATE: 9/2/17
 BY: *[Signature]*



UTILITY NOTES

ALL ATTEMPTS HAVE BEEN MADE TO ACCURATELY SHOW ALL EXISTING UNDERGROUND UTILITIES AND PIPELINES. HOWEVER, IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO HAVE THE UTILITY AND PIPELINES PHYSICALLY LOCATED IN THE FIELD PRIOR TO CONSTRUCTION. ALL LIABILITY FOR THE UTILITIES AND PIPELINES ARE SOLELY THE CONTRACTOR'S WHETHER SHOWN ON THE PLANS OR NOT.

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REVISIONS

NUMBER	DESCRIPTION	DATE	BY

APPROVED: *[Signature]*
DEVELOPMENT COORDINATOR

DATE: 9/2/17

J. COSTANZA & ASSOCIATES
REGISTERED PROFESSIONAL ENGINEER
NO. 12151 EXPIRATION DATE 12/31/2018

FORT BEND COUNTY M.U.D. NO. 30
FM 1464 - PHASE I
12" WATERLINE IMPROVEMENTS

PLAN & PROFILE
STA. 0+00 TO STA. 5+00

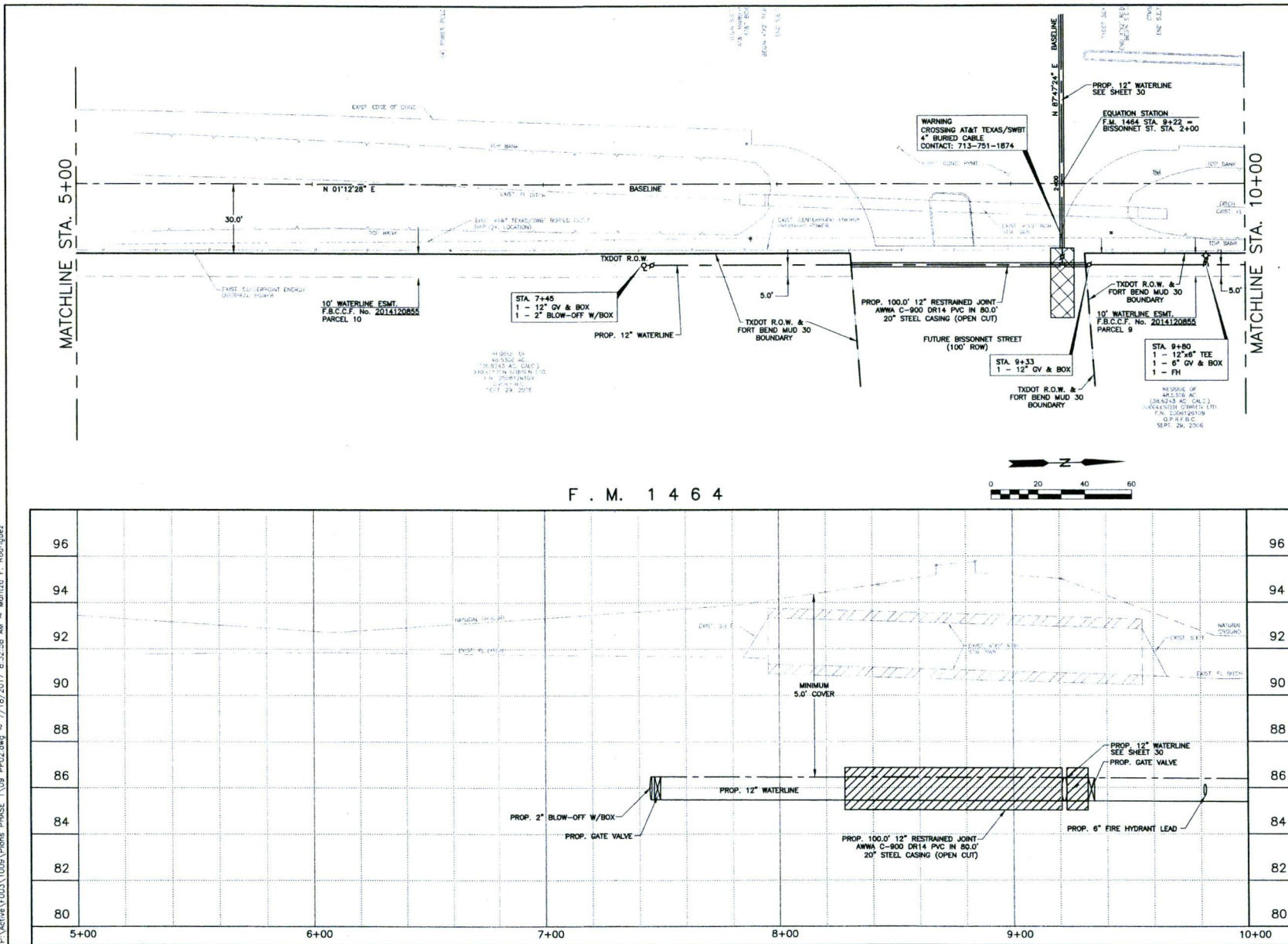
NOTE: CITY SIGNATURES VALID FOR ONE YEAR ONLY
AFTER DATE OF SIGNATURES

CITY OF HOUSTON
DEPARTMENT OF PUBLIC WORKS AND ENGINEERING

SEAL: *[Signature]*
DATE: 9/2/17
PROJECT: FM 1464 - PHASE I
SHEET: 8 OF 42

FILE NO: F003-1009
DRAWING SCALE: HORIZ.: 1"=20' VERT.: 1"=2'
HORIZ.: 1"=20' VERT.: 1"=2'
SHEET No: 8 OF 42

FOR CITY OF HOUSTON USE ONLY
56731



UTILITY NOTES

ALL ATTEMPTS HAVE BEEN MADE TO ACCURATELY SHOW ALL EXISTING UNDERGROUND UTILITIES AND PIPELINES. HOWEVER, IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO HAVE THE UTILITY AND PIPELINES PHYSICALLY LOCATED IN THE FIELD PRIOR TO CONSTRUCTION. ALL LIABILITY FOR THE UTILITIES AND PIPELINES ARE SOLELY THE CONTRACTOR'S WHETHER SHOWN ON THE PLANS OR NOT.

CAUTION: UNDERGROUND GAS FACILITIES

LOCATION OF GAS LINES ARE SHOWN IN AN APPROXIMATE LOCATION ONLY. SERVICE LINES ARE USUALLY NOT SHOWN. THE CONTRACTOR SHALL CONTACT THE UTILITY COORDINATING COMMITTEE AT 713-223-4567 OR 1-800-688-6344 A MINIMUM OF 48 HOURS PRIOR TO CONSTRUCTION TO HAVE MAIN AND SERVICE LINES FIELD LOCATED. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION BEFORE COMMENCING WORK AND AGREE TO BE FULLY RESPONSIBLE FOR ANY DAMAGES CAUSED BY HIS FAILURE TO EXACTLY LOCATED AND PRESERVE THESE UNDERGROUND FACILITIES.

WARNING: OVERHEAD LINES MAY EXIST ON THE PROPERTY.

WE HAVE NOT ATTEMPTED TO MARK THOSE LINES SINCE THEY ARE CLEARLY VISIBLE, BUT CONTRACTOR SHOULD LOCATE THEM PRIOR TO BEGINNING ANY CONSTRUCTION. TEXAS LAW, SECTION 752, HEALTH & SAFETY CODE, FORBIDS ALL ACTIVITIES IN WHICH PERSONS OR THINGS MAY COME WITHIN SIX (6) FEET OF LIVE OVERHEAD HIGH VOLTAGE LINES. CONTRACTOR AND OWNERS ARE LEGALLY RESPONSIBLE FOR SAFETY OF CONSTRUCTION WORKERS UNDER THIS LAW. THIS LAW CARRIES BOTH CRIMINAL AND CIVIL LIABILITY.

REVISIONS

NUMBER	DESCRIPTION	DATE	BY
1	AS SHOWN	7/17/17	MR. F. RODRIGUEZ

APPROVED: *[Signature]* DEVELOPMENT COORDINATOR
DATE: 7/17/17

J. GOSTANZA ASSOCIATES
REGISTERED PROFESSIONAL ENGINEER
NO. 12845
EXPIRATION DATE: 12/31/2018

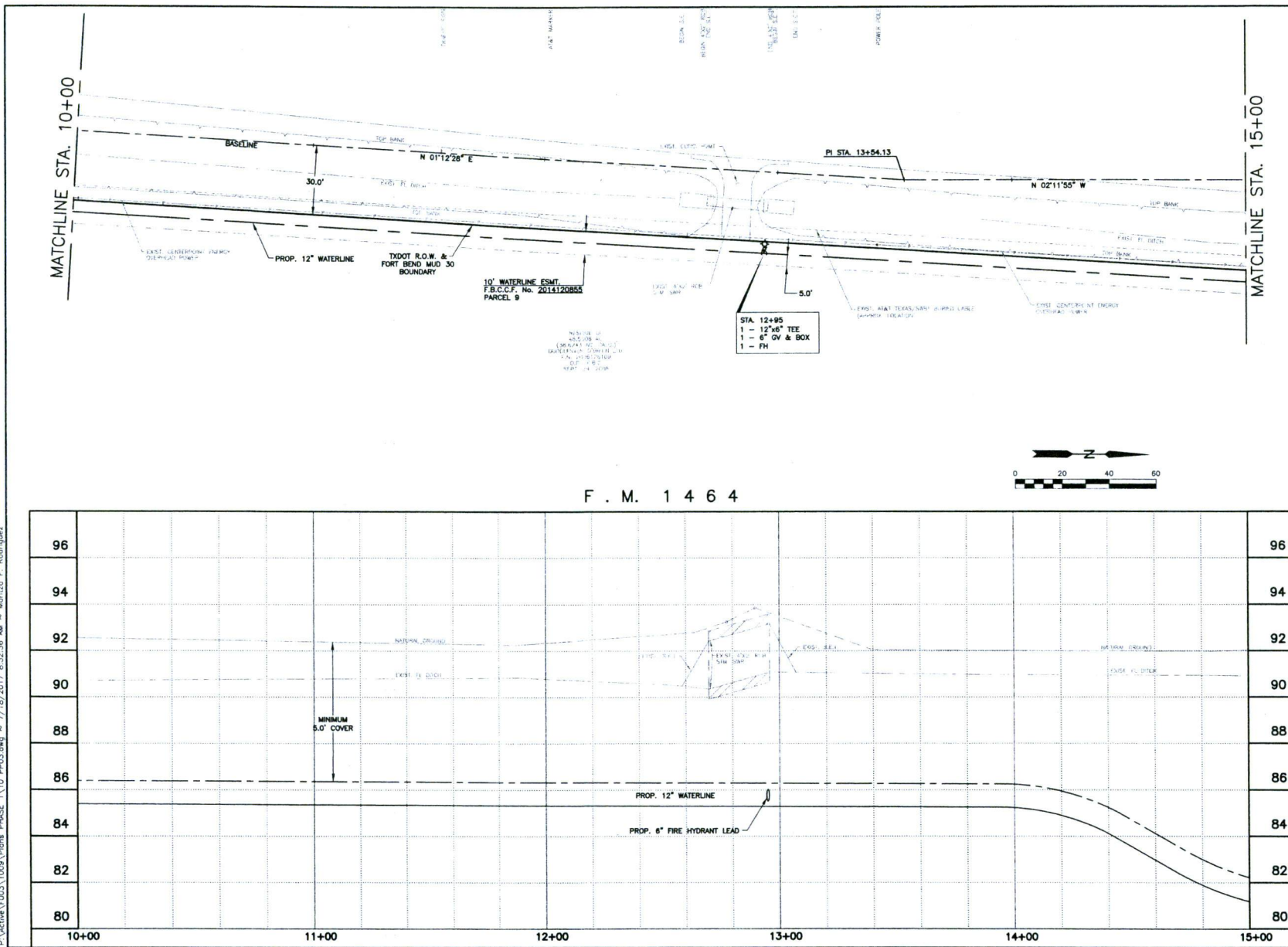
FORT BEND COUNTY M.U.D. NO. 30
FM 1464 - PHASE I
12" WATERLINE IMPROVEMENTS
PLAN & PROFILE
STA. 5+00 TO STA. 10+00

NOTE: CITY SIGNATURES VALID FOR ONE YEAR ONLY AFTER DATE OF SIGNATURES

CITY OF HOUSTON
DEPARTMENT OF PUBLIC WORKS AND ENGINEERING

FILE NO: F003-1009
DRAWING SCALE: HORIZ.: 1"=20' VERT.: 1"=2'
SHEET No: 9 OF 42

FOR CITY OF HOUSTON USE ONLY
68701



UTILITY NOTES

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REVISIONS

NUMBER	DESCRIPTION	DATE	INITIALS

APPROVED: *[Signature]*
DEVELOPMENT COORDINATOR

DATE: 9/2/17

J. COSTANZA & ASSOCIATES
ENGINEERING, INC.
10000 WESTHELL DRIVE, SUITE 100
HOUSTON, TEXAS 77036
(713) 861-1111

FORT BEND COUNTY M.U.D. NO. 30
FM 1464 - PHASE I
12" WATERLINE IMPROVEMENTS

PLAN & PROFILE
STA. 10+00 TO STA. 15+00

NOTE: CITY SIGNATURES VALID FOR ONE YEAR ONLY AFTER DATE OF SIGNATURES

CITY OF HOUSTON
DEPARTMENT OF PUBLIC WORKS AND ENGINEERING

STREET & BRIDGE

FILE NO: F003-1009

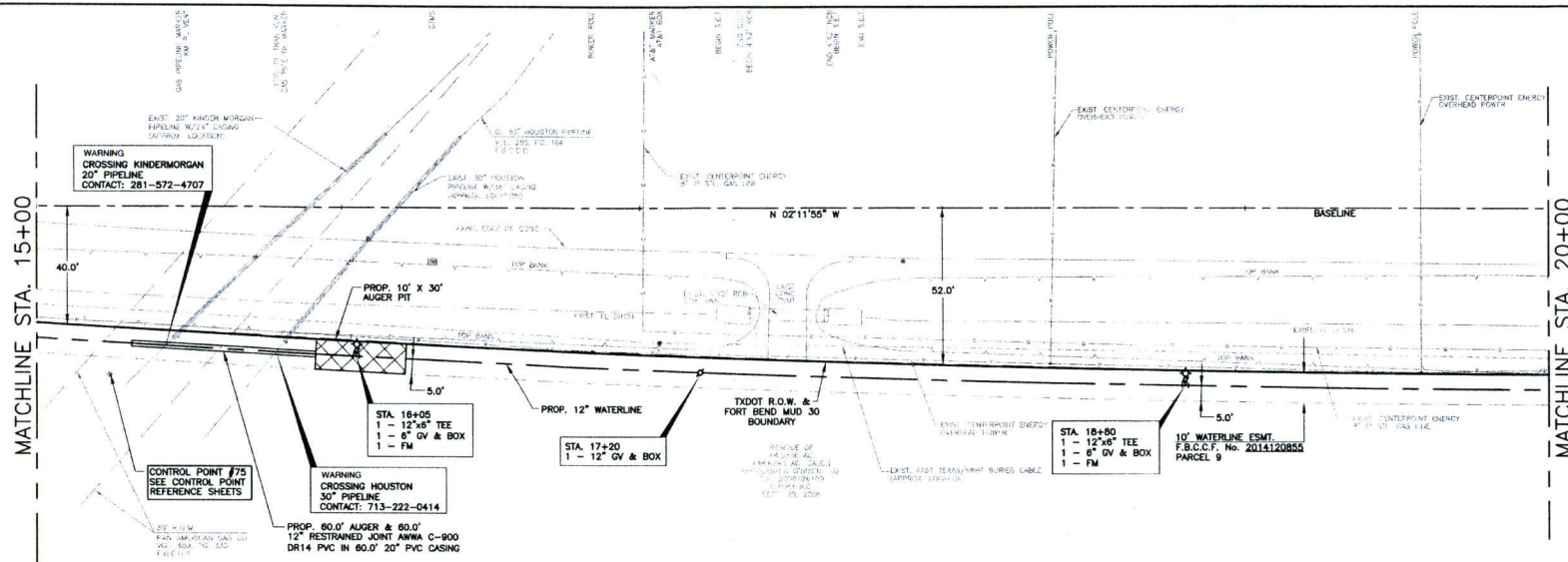
DRAWING SCALE

HORIZ.: 1"=20'
VERT.: 1"=2'

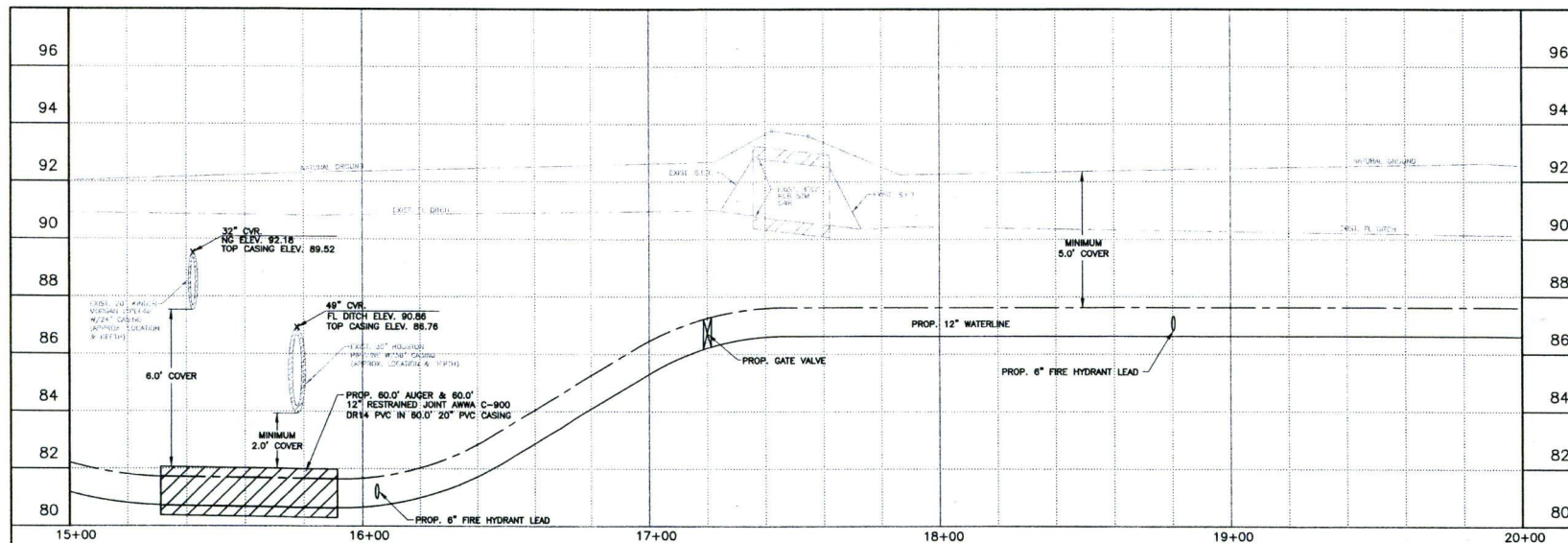
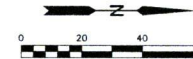
SHEET No: 10 OF 42

FOR CITY OF HOUSTON USE ONLY

RECEIVED
CITY OF HOUSTON
DEPARTMENT OF PUBLIC WORKS AND ENGINEERING
7/18/2017 8:32:36 AM



F . M. 1 4 6 4



UTILITY NOTES

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[illegible]

APPROVED: [Signature]
DEVELOPMENT COORDINATOR

DATE: 9/7/17

JACOSTANZA
& ASSOCIATES
ENGINEERING, INC.
1645 KING REGISTRATION NO. E-482
4301 CENTER ST. SUITE 200, ST. LOUIS, MO 63108 314-830-8237

FORT BEND COUNTY M.U.D. NO. 30
FM 1464 - PHASE I
12" WATERLINE IMPROVEMENTS

PLAN & PROFILE STA. 15+00 TO STA. 20+00

NOTE: CITY SIGNATURES VALID FOR ONE YEAR ONLY

CITY OF HOUSTON
DEPARTMENT OF PUBLIC WORKS AND ENGINEERING

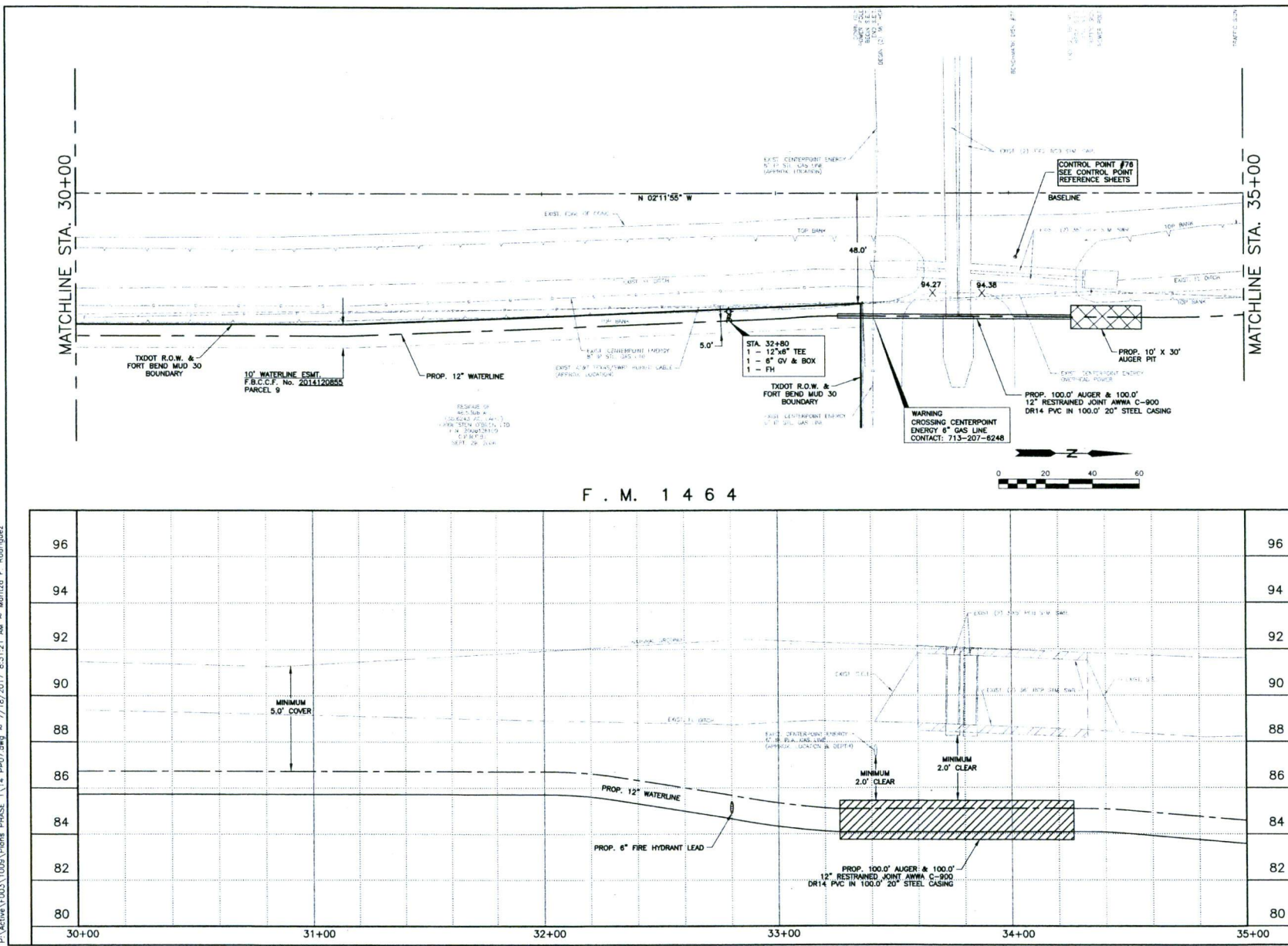
WATER	TRAFFIC & TRANSPORTATION
WASTEWATER	STORM WATER QUALITY
STORM	FACILITIES

STREET & BRIDGE	
FILE NO.	FOR CITY OF WASHINGTON USE ONLY

F003-1009

HORZ.: 1"=20'
VERT.: 1"=2'

SHEET _____



UTILITY NOTES

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REVISIONS

NUMBER	DESCRIPTION	DATE	BY
1	AS SHOWN	9/7/17	9/7/17

APPROVED: *[Signature]*
DEVELOPMENT COORDINATOR
DATE: 9/7/17

J. COSTANZA & ASSOCIATES
ENGINEERING, INC.
3000 WEST 17TH STREET, SUITE 100
HOUSTON, TEXAS 77058
713-261-1111

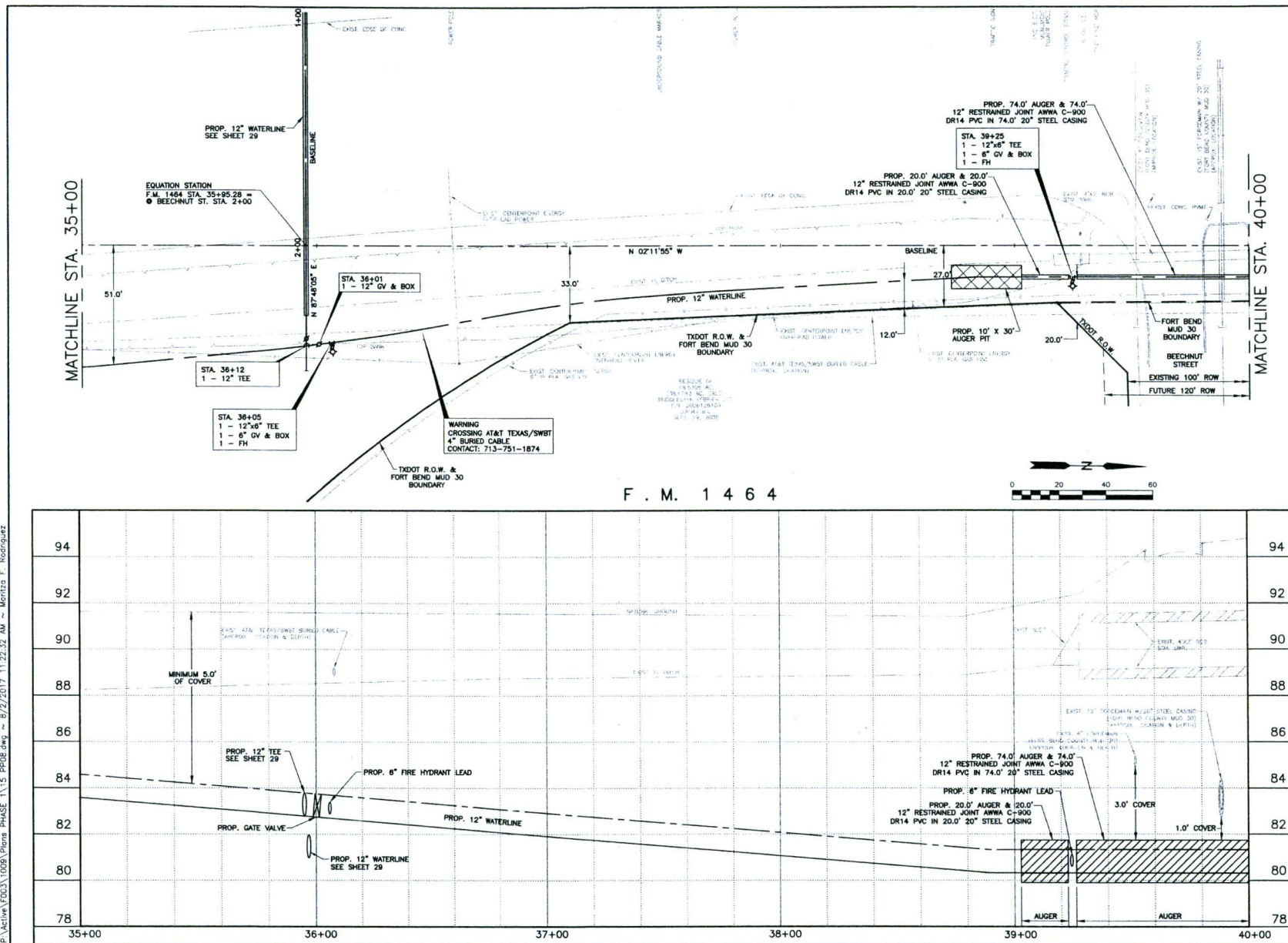
FORT BEND COUNTY M.U.D. NO. 30
FM 1464 - PHASE I
12" WATERLINE IMPROVEMENTS
PLAN & PROFILE
STA. 30+00 TO STA. 35+00

NOTE: CITY SIGNATURES VALID FOR ONE YEAR ONLY AFTER DATE OF SIGNATURES

CITY OF HOUSTON
DEPARTMENT OF PUBLIC WORKS AND ENGINEERING
WATER & SEWER DIVISION
SIGNED: *[Signature]* DATE: 9/7/17
TITLE: *[Signature]* DATE: 9/7/17

FILE NO: F003-1009
DRAWING SCALE: AS SHOWN
HORIZ: 1"=30'
VERT: 1"=2'
SHEET No: 14 OF 42

FOR CITY OF HOUSTON USE ONLY
8/9/17



UTILITY NOTES

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NUMBER	DESCRIPTION	DATE	NOTES

APPROVED: *[Signature]*
DEVELOPMENT COORDINATOR

DATE: 1/3/12

J. COSTANZA & ASSOCIATES
CONSULTING ENGINEERS, P.C.
1100 WEST 19TH STREET, SUITE 100
HOUSTON, TEXAS 77058

FORT BEND COUNTY M.U.D. NO. 30
FM 1464 - PHASE I
12" WATERLINE IMPROVEMENTS

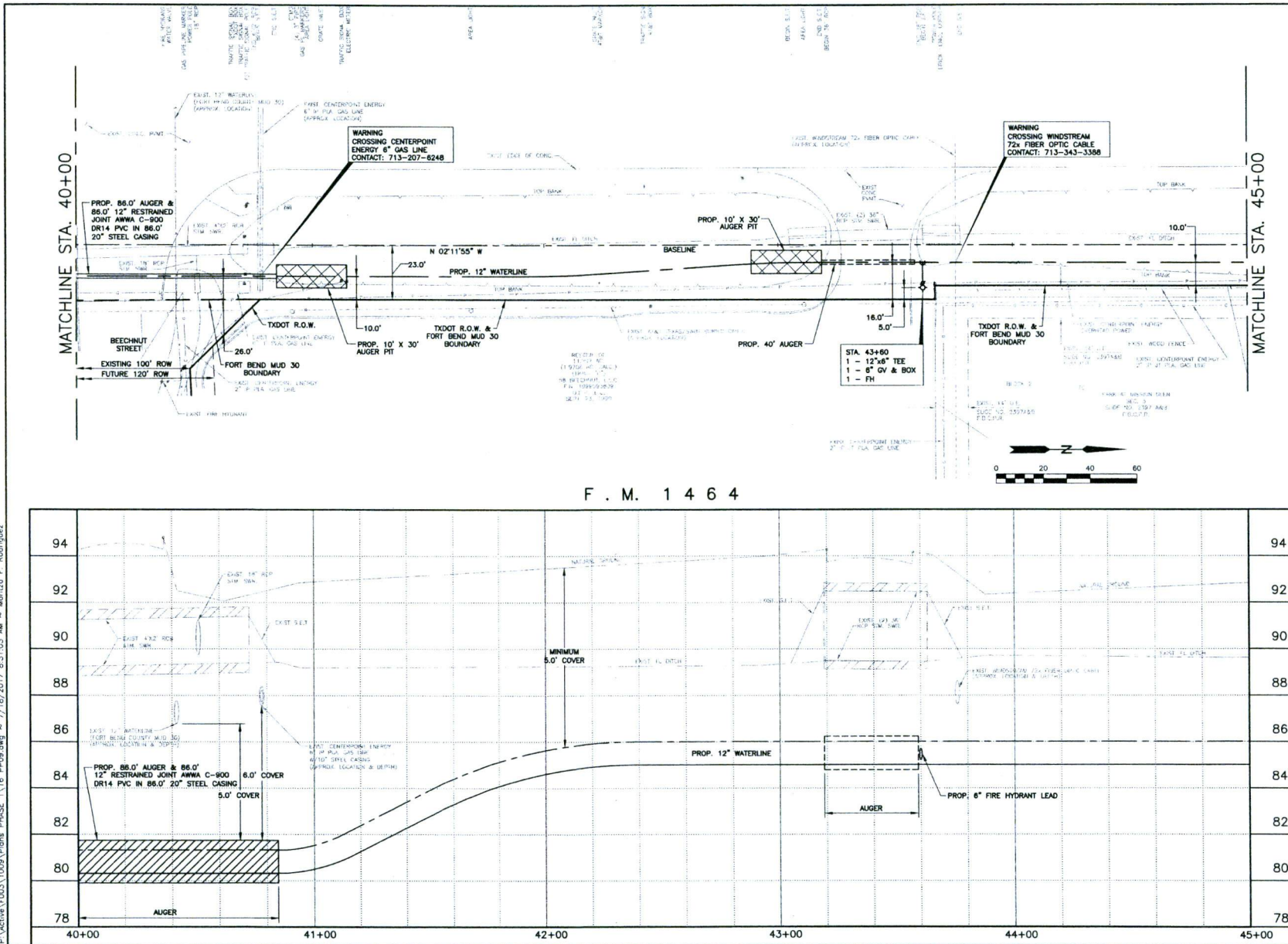
PLAN & PROFILE
STA. 35+00 TO STA. 40+00

NOTE: CITY SIGNATURES VALID FOR ONE YEAR ONLY AFTER DATE OF SIGNATURES.

CITY OF HOUSTON
DEPARTMENT OF PUBLIC WORKS AND ENGINEERING

FILE NO: F003-1009
DRAWING SCALE: HORIZ.: 1"=20' VERT.: 1"=2'
SHEET NO: 15 OF 42

FOR CITY OF HOUSTON USE ONLY
58731



UTILITY NOTES

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REVISIONS

REVISION	DESCRIPTION	DATE	NOTES
1	1 - 12" TEE		
2	1 - 6" GY & BOX		
3	1 - FH		

APPROVED: *[Signature]*
DEVELOPMENT COORDINATOR

DATE: 9/2/17

J. COSTANZA & ASSOCIATES

FORT BEND COUNTY M.U.D. NO. 30
FM 1464 - PHASE I
12" WATERLINE IMPROVEMENTS

PLAN & PROFILE
STA. 40+00 TO STA. 45+00

NOTE: CITY SIGNATURES VALID FOR ONE YEAR ONLY AFTER DATE OF SIGNATURES

CITY OF HOUSTON
DEPARTMENT OF PUBLIC WORKS AND ENGINEERING

FILE NO: F003-1009

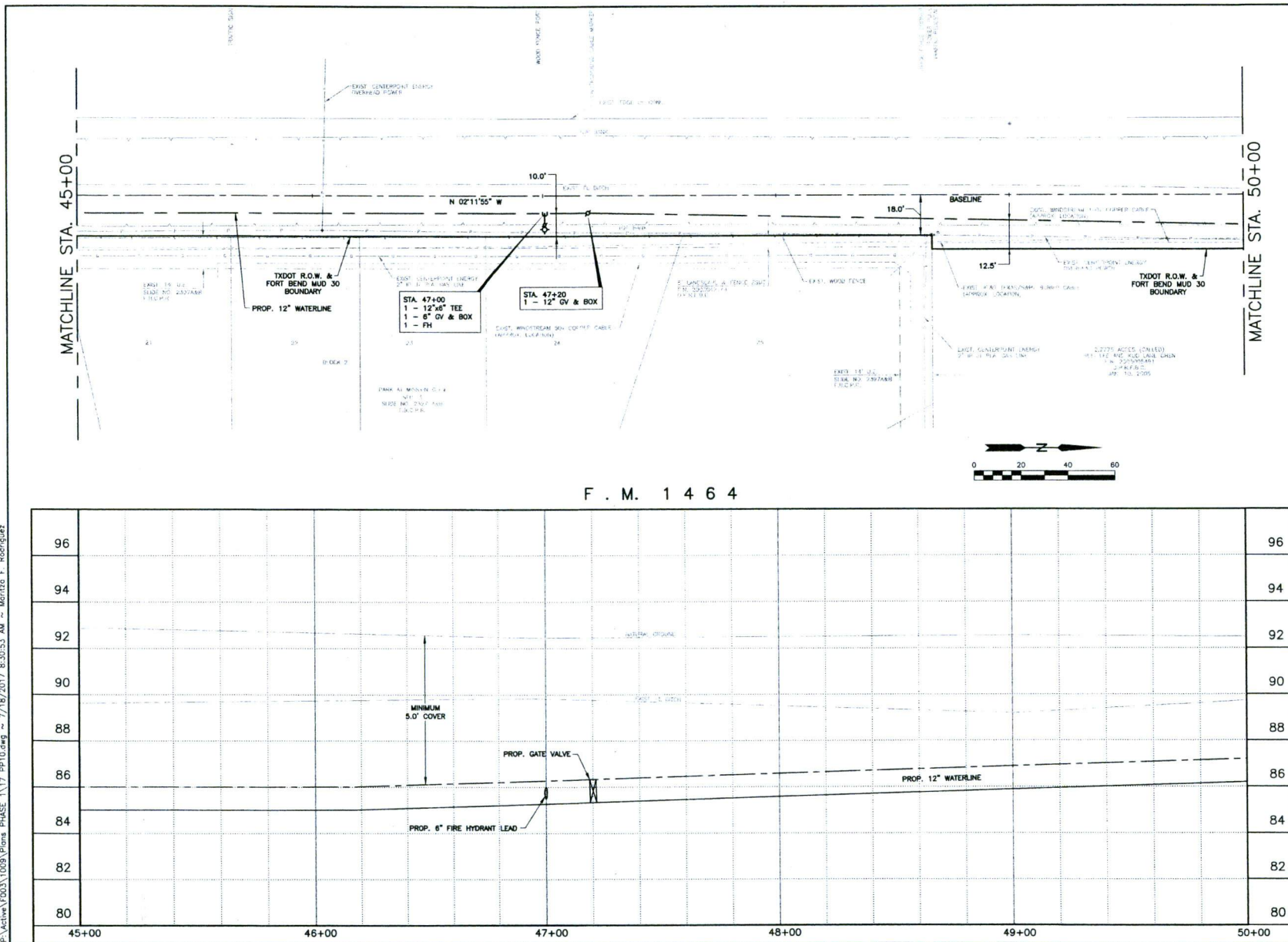
DRAWING SCALE: HORIZ: 1"=20' VERT: 1"=2'

SHEET NO: 16 OF 42

FOR CITY OF HOUSTON USE ONLY

58731

P:\Active\1003\1009\Plans PHASE 1\17 PFI0.dwg ~ 7/18/17 8:35:53 AM ~ Meritro F. Rodriguez



UTILITY NOTES

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NUMBER	DESCRIPTION	DATE	REVISIONS

APPROVED: *[Signature]*
DEVELOPMENT COORDINATOR

DATE: 9/3/17

J. COSTANZA & ASSOCIATES
CITY ENGINEER

FORT BEND COUNTY M.U.D. NO. 30
FM 1464 - PHASE I
12" WATERLINE IMPROVEMENTS

PLAN & PROFILE
STA. 45+00 TO STA. 50+00

NOTE: CITY SIGNATURES VALID FOR ONE YEAR ONLY
AFTER DATE OF SIGNATURES

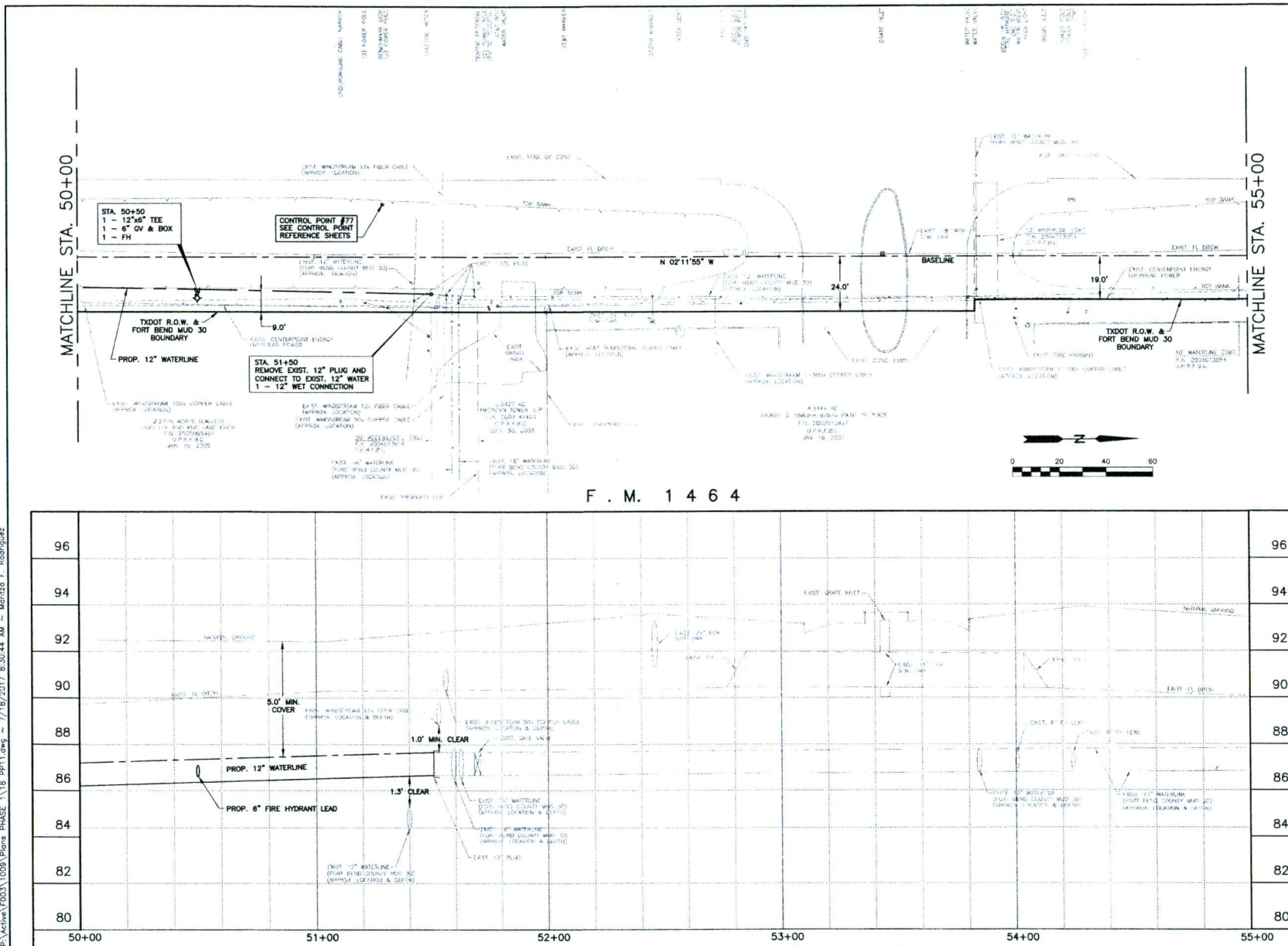
CITY OF HOUSTON
DEPARTMENT OF PUBLIC WORKS AND ENGINEERING

WATER
STREET & BRIDGE
FOR CITY OF HOUSTON USE ONLY

FILE NO: F003-1009
DRAWING SCALE: AS SHOWN
HORIZ.: 1"=20'
VERT.: 1"=2'

SHEET No: 17 OF 42

58731



UTILITY NOTES

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NUMBER	DESCRIPTION	DATE	INITIALS

APPROVED: *[Signature]*
DEVELOPMENT COORDINATOR

DATE: 9/7/17

J. COSTANZA & ASSOCIATES
REGISTERED PROFESSIONAL ENGINEER
NO. 11456 - STATE OF TEXAS

FORT BEND COUNTY M.U.D. NO. 30
FM 1464 - PHASE I
12" WATERLINE IMPROVEMENTS

PLAN & PROFILE
STA. 50+00 TO STA. 55+00

NOTE: CITY SIGNATURES VALID FOR ONE YEAR ONLY AFTER DATE OF SIGNATURES

CITY OF HOUSTON
DEPARTMENT OF PUBLIC WORKS AND ENGINEERING

WATER DIVISION
FORBIDDEN TO BE USED FOR ANY OTHER PURPOSE WITHOUT THE WRITTEN PERMISSION OF THE CITY ENGINEER

FORBIDDEN TO BE USED FOR ANY OTHER PURPOSE WITHOUT THE WRITTEN PERMISSION OF THE CITY ENGINEER

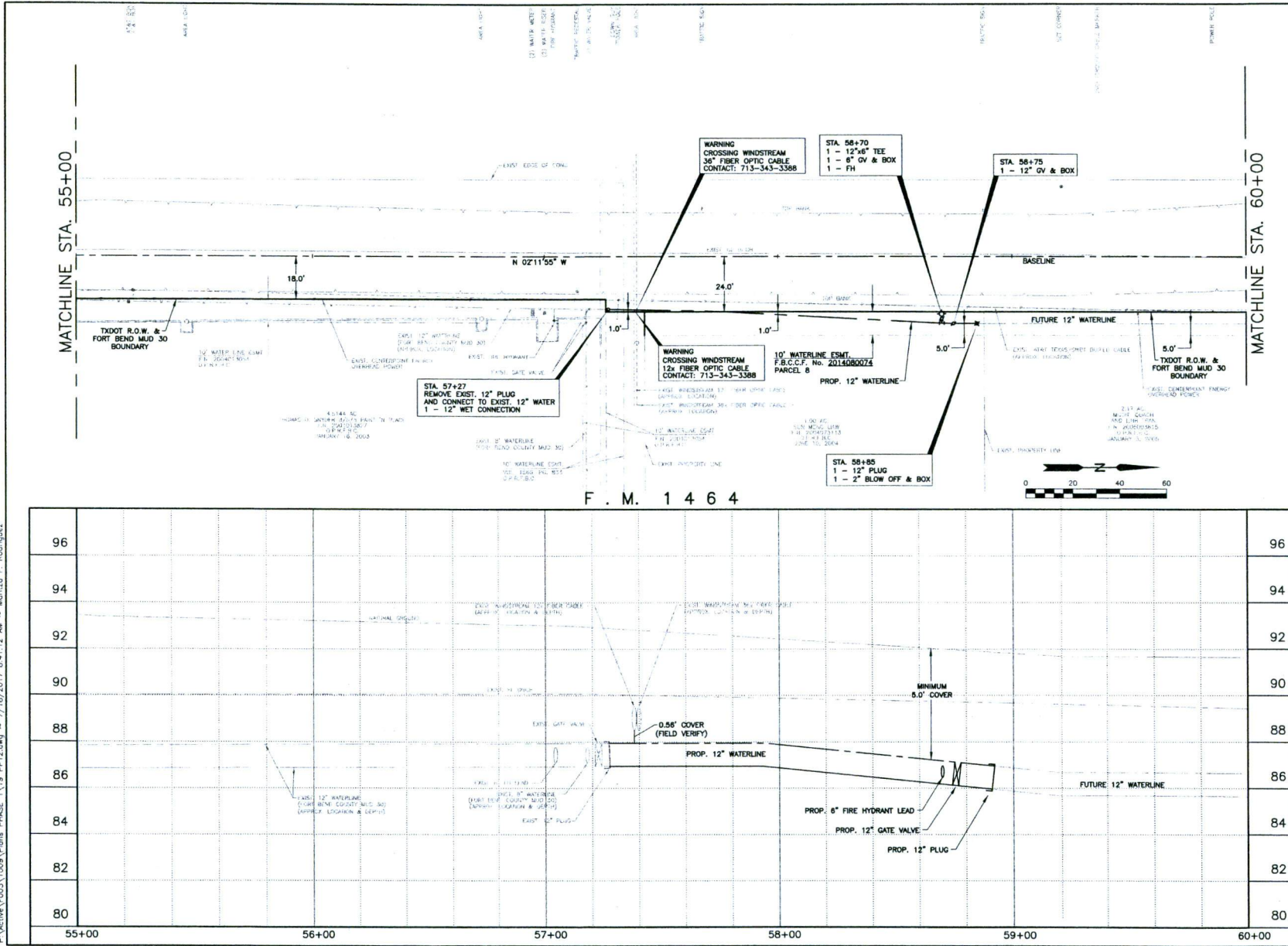
FILE NO: F003-1009

DRAWING SCALE: HORIZ: 1"=20' VERT: 1"=2'

SHEET 18 OF 42

FOR CITY OF HOUSTON USE ONLY

68731



UTILITY NOTES

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NUMBER	DESCRIPTION	DATE	BY

APPROVED: *[Signature]*
DEVELOPMENT COORDINATOR

DATED: 7/17

J. COSTANZA & ASSOCIATES
CITY ENGINEER

FORT BEND COUNTY M.U.D. NO. 30
FM 1464 - PHASE I
12" WATERLINE IMPROVEMENTS

PLAN & PROFILE
STA. 55+00 TO STA. 60+00

NOTE: CITY SIGNATURES VALID FOR ONE YEAR ONLY AFTER DATE OF SIGNATURES

CITY OF HOUSTON
DEPARTMENT OF PUBLIC WORKS AND ENGINEERING

STREET & BLOCK: *[Signature]*

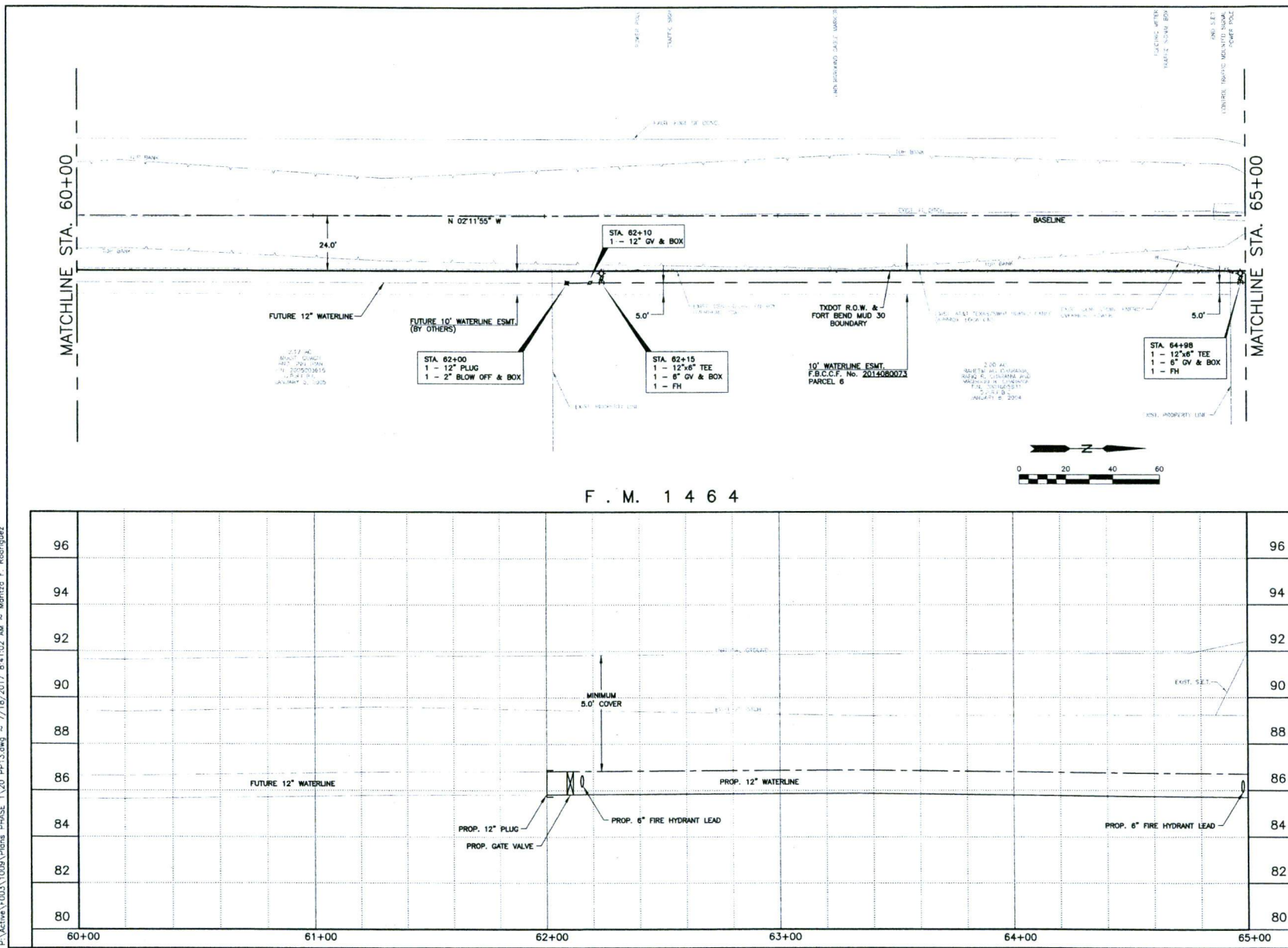
FILE NO: F003-1009

DRAWING SCALE: HORIZ.: 1"=20' VERT.: 1"=2'

SHEET No: 19 OF 42

FOR CITY OF HOUSTON USE ONLY

58731



F . M . 1 4 6 4

UTILITY NOTES

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NUMBER	DESCRIPTION	DATE	REVISED

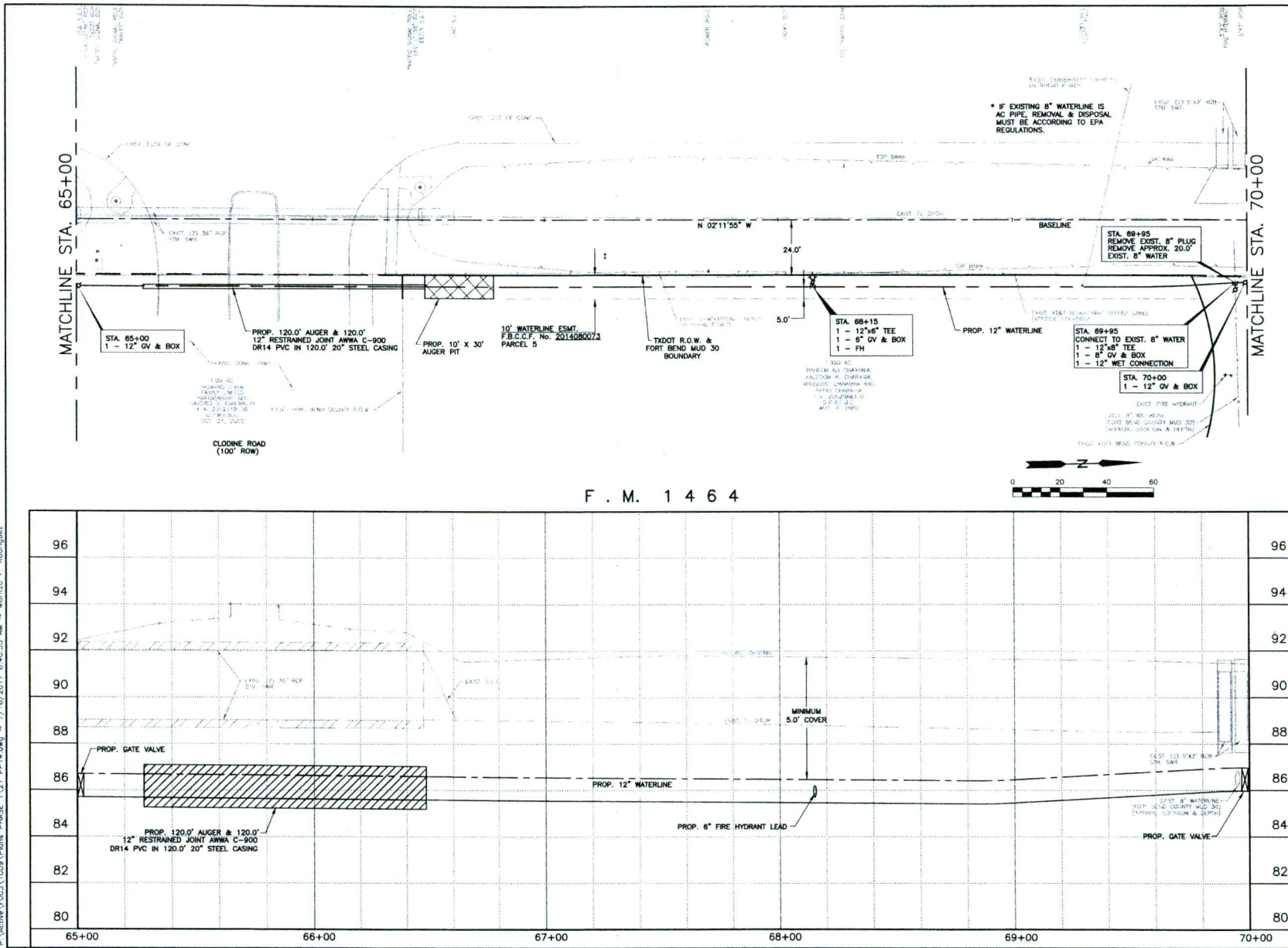
APPROVED: *[Signature]*
DEVELOPMENT COORDINATOR
DATE: 9/2/17



FORT BEND COUNTY M.U.D. NO. 30
FM 1464 - PHASE I
12" WATERLINE IMPROVEMENTS
PLAN & PROFILE
STA. 60+00 TO STA. 65+00

NOTE: CITY SIGNATURES VALID FOR ONE YEAR ONLY AFTER DATE OF SIGNATURES
CITY OF HOUSTON
DEPARTMENT OF PUBLIC WORKS AND ENGINEERING
WATER DIVISION
STREET & BRIDGE

FILE NO: F003-1009
DRAWING SCALE: HORIZ.: 1"=20' VERT.: 1"=2'
SHEET 20 OF 42
FOR CITY OF HOUSTON USE ONLY
58731



UTILITY NOTES

ALL ATTEMPTS HAVE BEEN MADE TO ACCURATELY SHOW ALL EXISTING UNDERGROUND UTILITIES AND PIPELINES. HOWEVER, IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO HAVE THE UTILITY AND PIPELINES PHYSICALLY LOCATED IN THE FIELD PRIOR TO CONSTRUCTION. ALL LIABILITY FOR THE UTILITIES AND PIPELINES ARE SOLELY THE CONTRACTOR'S WHETHER SHOWN ON THE PLANS OR NOT.

CAUTION: UNDERGROUND GAS FACILITIES

LOCATION OF GAS LINES ARE SHOWN IN AN APPROXIMATE LOCATION ONLY. SERVICE LINES ARE USUALLY NOT SHOWN. THE CONTRACTOR SHALL CONTACT THE UTILITY COORDINATING COMMITTEE AT 713-223-4567 OR 1-800-669-8344 A MINIMUM OF 48 HOURS PRIOR TO CONSTRUCTION TO HAVE MAIN AND SERVICE LINES FIELD LOCATED. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION BEFORE COMMENCING WORK AND AGREE TO BE FULLY RESPONSIBLE FOR ANY DAMAGES CAUSED BY HIS FAILURE TO EXACTLY LOCATED AND PRESERVE THESE UNDERGROUND FACILITIES.

WARNING:

OVERHEAD LINES MAY EXIST ON THE PROPERTY. WE HAVE NOT ATTEMPTED TO MARK THOSE LINES SINCE THEY ARE CLEARLY VISIBLE, BUT CONTRACTOR SHOULD LOCATE THEM PRIOR TO BEGINNING ANY CONSTRUCTION. TEXAS LAW, SECTION 752, HEALTH & SAFETY CODE, FORBIDS ALL ACTIVITIES IN WHICH PERSONS OR THINGS MAY COME WITHIN SIX (6) FEET OF LIVE OVERHEAD HIGH VOLTAGE LINES. CONTRACTOR AND OWNERS ARE LEGALLY RESPONSIBLE FOR SAFETY OF CONSTRUCTION WORKERS UNDER THIS LAW. THIS LAW CARRIES BOTH CRIMINAL AND CIVIL LIABILITY.

REVISIONS	DATE	INITIALS

APPROVED: *[Signature]*
DEVELOPMENT COORDINATOR

DATE: 7/17

J. COSTANZA & ASSOCIATES
CITY ENGINEER

FORT BEND COUNTY M.U.D. NO. 30
FM 1464 - PHASE I
12" WATERLINE IMPROVEMENTS

PLAN & PROFILE
STA. 65+00 TO STA. 70+00

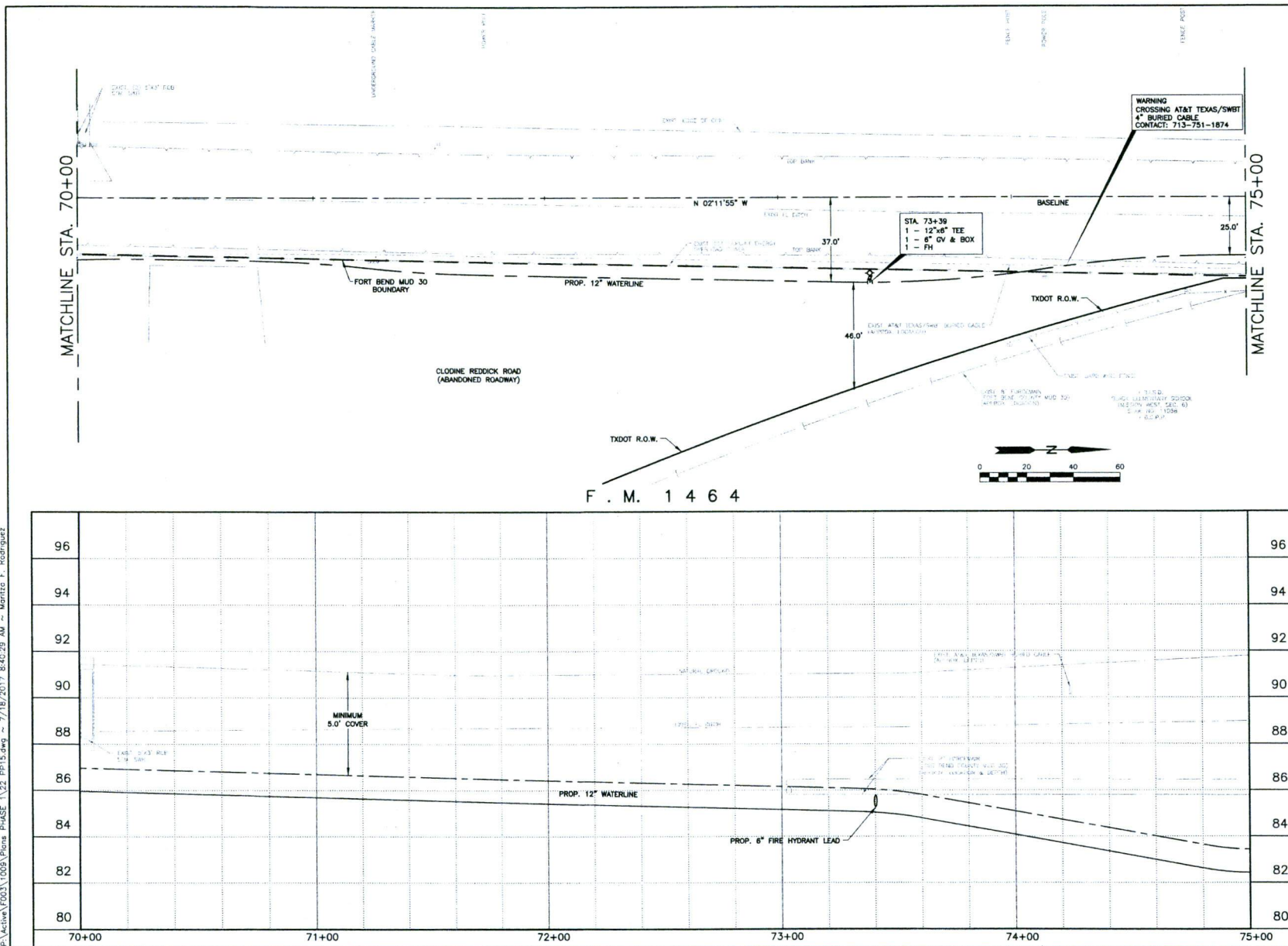
NOTE: CITY SIGNATURES VALID FOR ONE YEAR ONLY AFTER DATE OF SIGNATURE

CITY OF HOUSTON
DEPARTMENT OF PUBLIC WORKS AND ENGINEERING

FILE NO: F003-1009
DRAWING SCALE: HORIZ: 1"=20' VERT: 1"=2'
SHEET: 21 OF 42

FOR CITY OF HOUSTON USE ONLY
58791

P:\Active\F0031\009\Plans PHASE 1\22 F0031.dwg ~ 7/18/2017 8:40:29 AM ~ Maritza F. Rodriguez



UTILITY NOTES

ALL ATTEMPTS HAVE BEEN MADE TO ACCURATELY SHOW ALL EXISTING UNDERGROUND UTILITIES AND PIPELINES. HOWEVER, IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO HAVE THE UTILITIES AND PIPELINES PHYSICALLY LOCATED IN THE FIELD PRIOR TO CONSTRUCTION. ALL LIABILITY FOR THE UTILITIES AND PIPELINES ARE SOLELY THE CONTRACTOR'S WHETHER SHOWN ON THE PLANS OR NOT.

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WARNING:

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REVISIONS

NUMBER	DESCRIPTION	DATE	NOTES

APPROVED: *[Signature]*
DEVELOPMENT COORDINATOR

DATE: 9/7/17

J. COSTANZA & ASSOCIATES
PLANNERS, ENGINEERS, ARCHITECTS

FORT BEND COUNTY M.U.D. NO. 30
FM 1464 - PHASE I
12" WATERLINE IMPROVEMENTS

PLAN & PROFILE
STA. 70+00 TO STA. 75+00

NOTE: CITY SIGNATURES VALID FOR ONE YEAR ONLY AFTER DATE OF SIGNATURES.

CITY OF HOUSTON
DEPARTMENT OF PUBLIC WORKS AND ENGINEERING

DATE: 9/13/17
BY: *[Signature]*
FOR WATER QUALITY

STREET & BRIDGE: *[Signature]*

FILE NO: F003-1009

DRAWING SCALE:

SHEET No: 22 OF 42

FOR CITY OF HOUSTON USE ONLY

58731

ALL ATTEMPTS HAVE BEEN MADE TO ACCURATELY SHOW ALL EXISTING UNDERGROUND UTILITIES AND PIPELINES. HOWEVER, IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO HAVE THE UTILITY AND PIPELINES PHYSICALLY LOCATED IN THE FIELD PRIOR TO CONSTRUCTION. ALL LIABILITY FOR THE UTILITIES AND PIPELINES ARE SOLELY THE CONTRACTOR'S WHETHER SHOWN ON THE PLANS OR NOT.

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WARNING:
OVERHEAD LINES MAY EXIST ON THE PROPERTY.
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LINES SINCE THEY ARE CLEARLY VISIBLE, BUT
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REVISIONS			
NUMBER	DESCRIPTION	DATE	INITIALS

APPROVED: [Signature]
DEVELOPMENT COORDINATOR

DATE: 9/7/17



FORT BEND COUNTY M.U.D. NO. 30
FM 1464 - PHASE I
12" WATERLINE IMPROVEMENTS

PLAN & PROFILE
STA. 75+00 TO STA. 80+00

NOTE: CITY SIGNATURES VALID FOR ONE YEAR ONLY
AFTER DATE OF SIGNATURE

CITY OF HOUSTON
DEPARTMENT OF PUBLIC WORKS AND ENGINEERING

WATER	WATER & TRANSPORTATION
WATER QUALITY	STORM WATER QUALITY
WATER SUPPLY	FACILITIES

STREET & BRIDGE

FILE NO: F003-1009	FOR CITY OF HOUSTON USE ONLY
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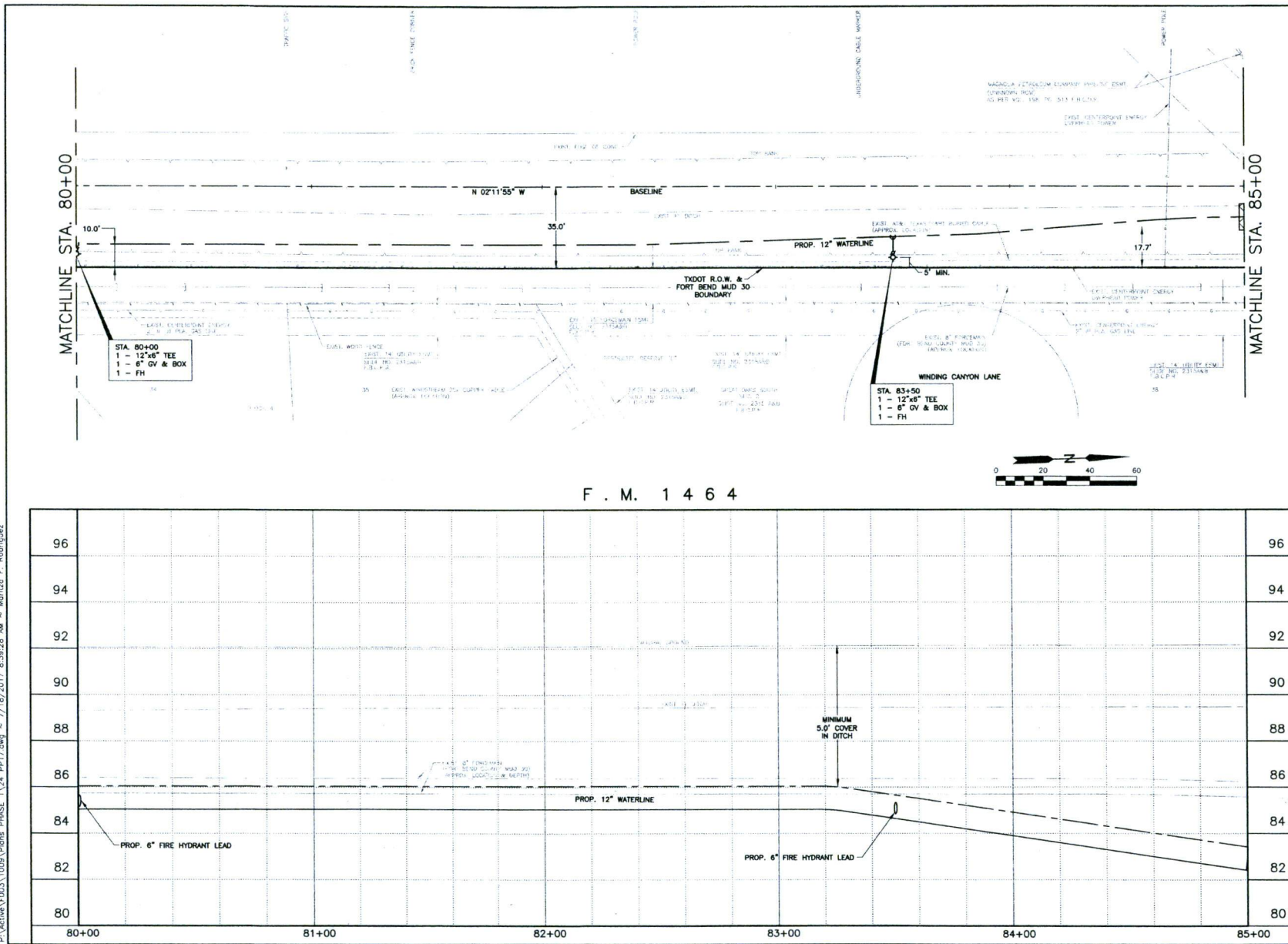
DRAWING SCALE	

HORZ.: 1"=20'
VERT.: 1"=2'

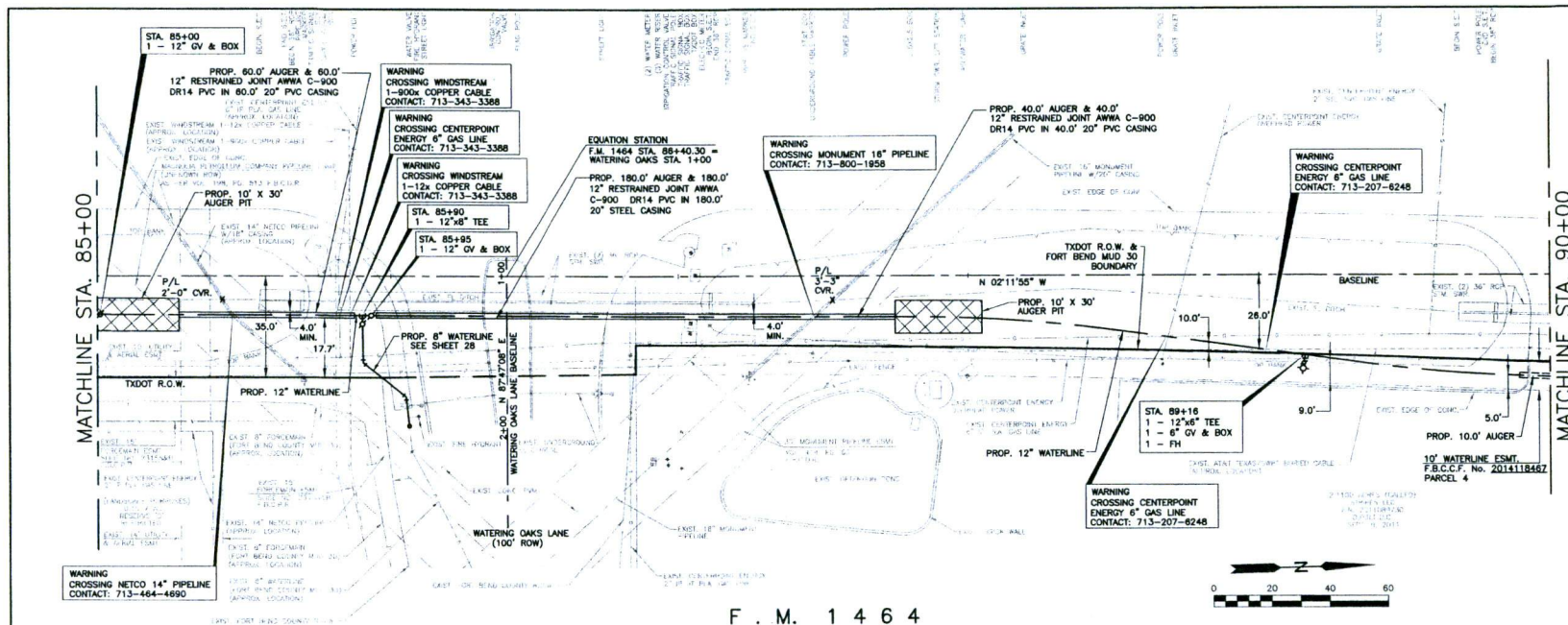
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SHEET No: 23 OF 42

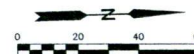
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P:\Active\2003\1009\Plans PHASE 1\25 PH1.dwg - 7/16/2017 8:39:12 AM - Maritza F. Rodriguez



F. M. 1464



UTILITY NOTES

ALL ATTEMPTS HAVE BEEN MADE TO ACCURATELY SHOW ALL EXISTING UNDERGROUND UTILITIES AND PIPELINES. HOWEVER, IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO HAVE THE UTILITY AND PIPELINES PHYSICALLY LOCATED IN THE FIELD PRIOR TO CONSTRUCTION. ALL LIABILITY FOR THE UTILITIES AND PIPELINES ARE SOLELY THE CONTRACTOR'S WHETHER SHOWN ON THE PLANS OR NOT.

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REVISIONS			
NUMBER	DESCRIPTION	DATE	NOTES

APPROVED: *L. S. / L*
DEVELOPMENT COORDINATOR
DATE: 9/3/17

J. COSTANZA
ASSOCIATES

FORT BEND COUNTY M.U.D. NO. 30
FM 1464 - PHASE I
12" WATERLINE IMPROVEMENTS
PLAN & PROFILE
STA. 85+00 TO STA. 90+00

NOTE: CITY SIGNATURES VALID FOR ONE YEAR ONLY AFTER DATE OF SIGNATURES.

CITY OF HOUSTON
DEPARTMENT OF PUBLIC WORKS AND ENGINEERING

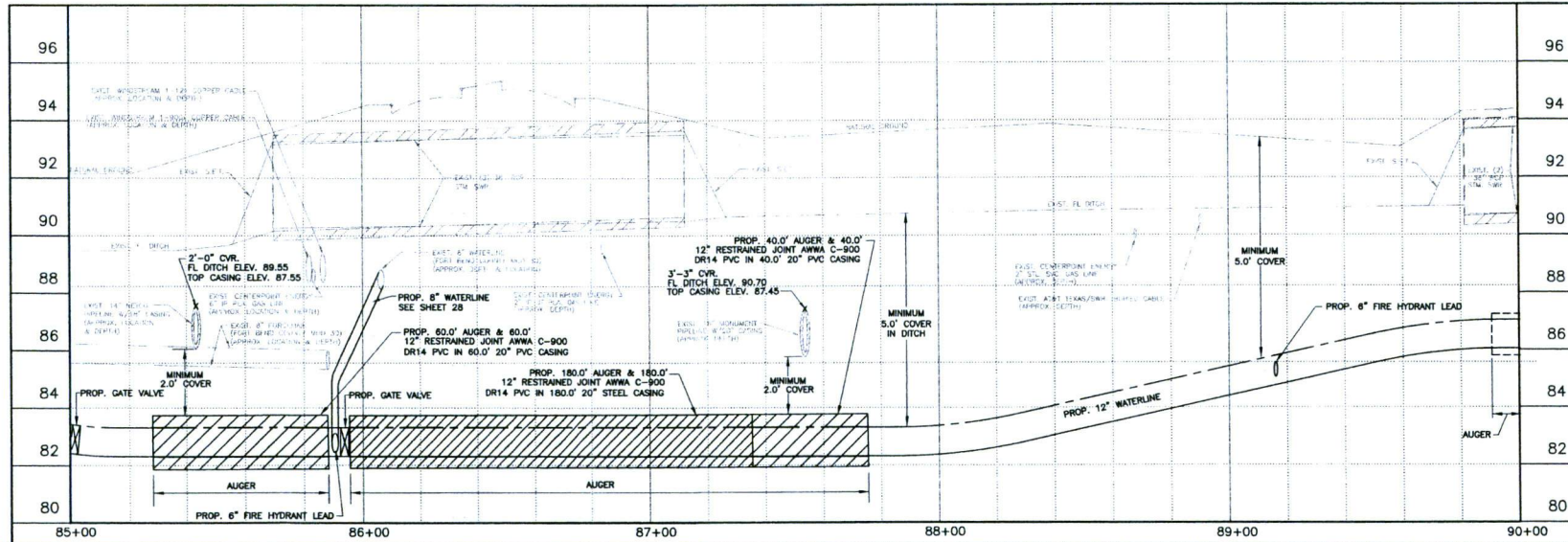
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FOR CITY OF HOUSTON USE ONLY

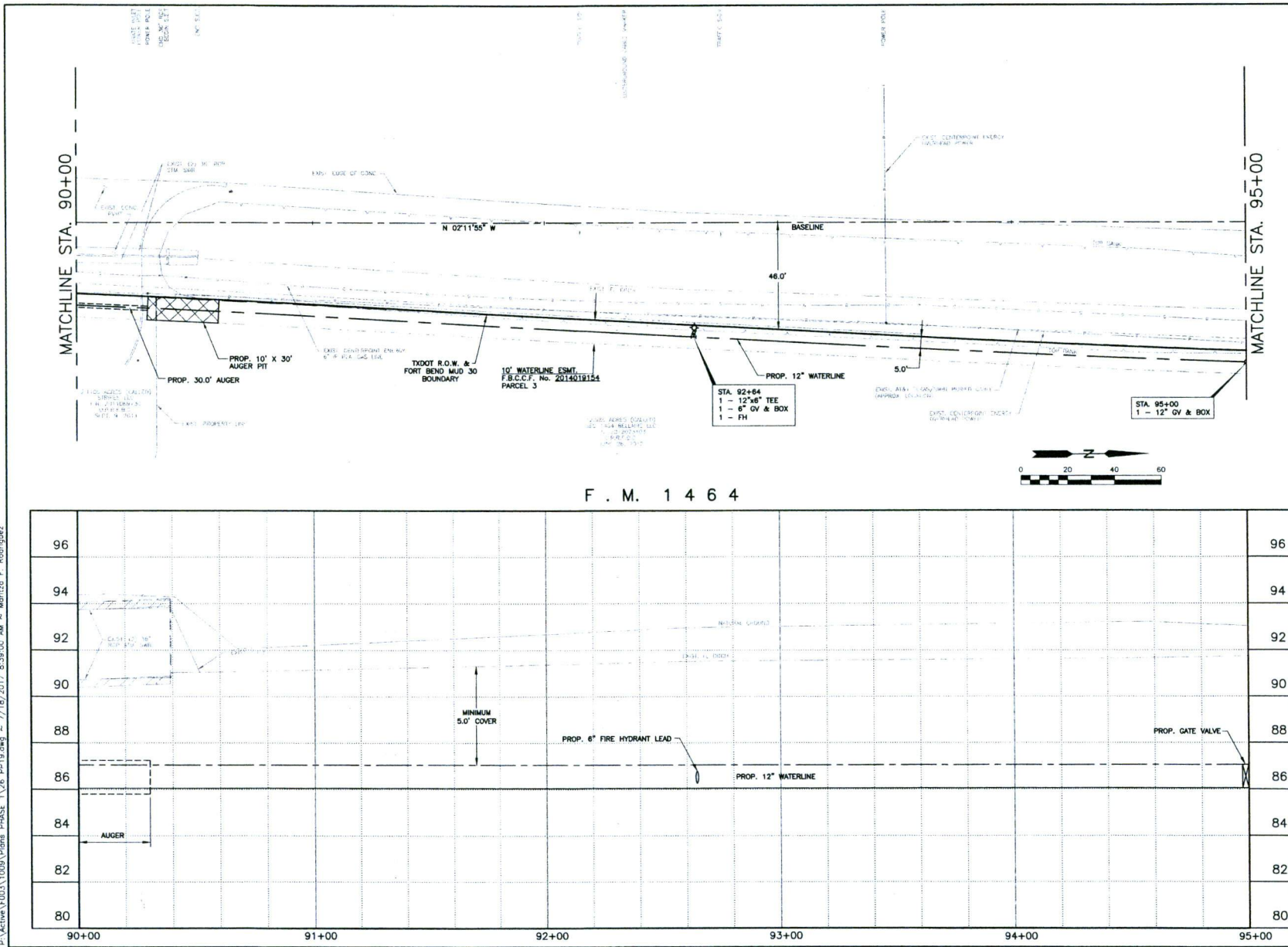
FILE NO: F003-1009

DRAWING SCALE: HORIZ: 1"=20' VERT: 1"=2'

SHEET No: 25 OF 42

58731





UTILITY NOTES

ALL ATTEMPTS HAVE BEEN MADE TO ACCURATELY SHOW ALL EXISTING UNDERGROUND UTILITIES AND PIPELINES. HOWEVER, IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO HAVE THE UTILITY AND PIPELINES PHYSICALLY LOCATED IN THE FIELD PRIOR TO CONSTRUCTION. ALL LIABILITY FOR THE UTILITIES AND PIPELINES ARE SOLELY THE CONTRACTOR'S WHETHER SHOWN ON THE PLANS OR NOT.

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NUMBER	DESCRIPTION	DATE	INITIALS

APPROVED: *[Signature]* 9/2/17
DEVELOPMENT COORDINATOR

DATE: 9/2/17

J. COSTANZA & ASSOCIATES
CITY ENGINEER

FORT BEND COUNTY M.U.D. NO. 30
FM 1464 - PHASE I
12" WATERLINE IMPROVEMENTS

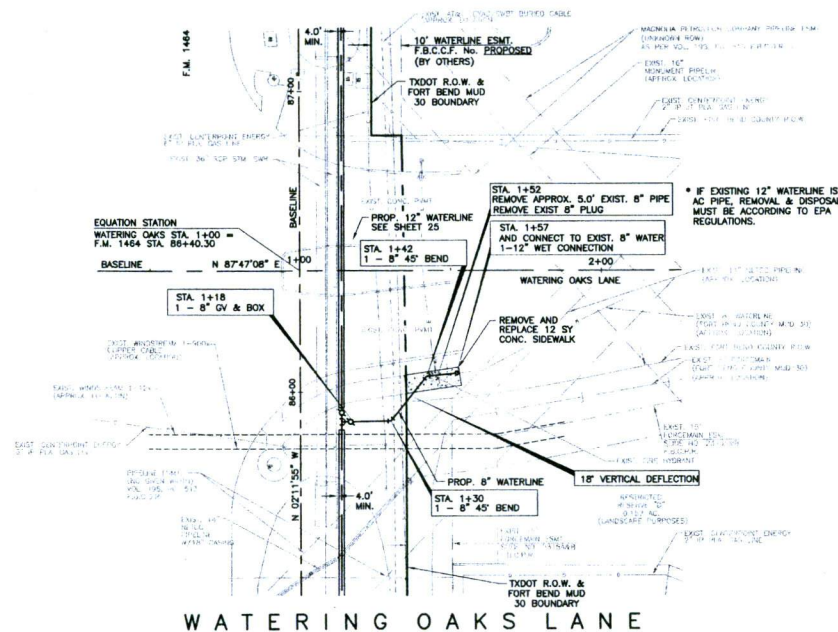
PLAN & PROFILE
STA. 90+00 TO STA. 95+00

NOTE: CITY SIGNATURES VALID FOR ONE YEAR ONLY AFTER DATE OF SIGNATURES

CITY OF HOUSTON
DEPARTMENT OF PUBLIC WORKS AND ENGINEERING

FILE NO: F003-1009
DRAWING SCALE: HORIZ.: 1"=20' VERT.: 1"=2'
SHEET: 26 OF 42

FOR CITY OF HOUSTON USE ONLY
88731

[illegible]

UTILITY NOTES

ALL ATTEMPTS HAVE BEEN MADE TO ACCURATELY SHOW ALL EXISTING UNDERGROUND UTILITIES AND PIPELINES. HOWEVER, IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO HAVE THE UTILITY AND PIPELINES PHYSICALLY LOCATED IN THE FIELD PRIOR TO CONSTRUCTION. ALL LIABILITY FOR THE UTILITIES AND PIPELINES ARE SOLELY THE CONTRACTOR'S WHETHER SHOWN ON THE PLANS OR NOT.

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SECTION 752, HEALTH & SAFETY CODE,
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CONTRACTOR AND OWNERS ARE LEGALLY
RESPONSIBLE FOR SAFETY OF CONSTRUCTION
WORKERS UNDER THIS LAW. THIS LAW CARRIES
BOTH CRIMINAL AND CIVIL LIABILITY.

[illegible]

APPROVED: [Signature]
DEVELOPMENT COORDINATOR

DATE: 9/7/17



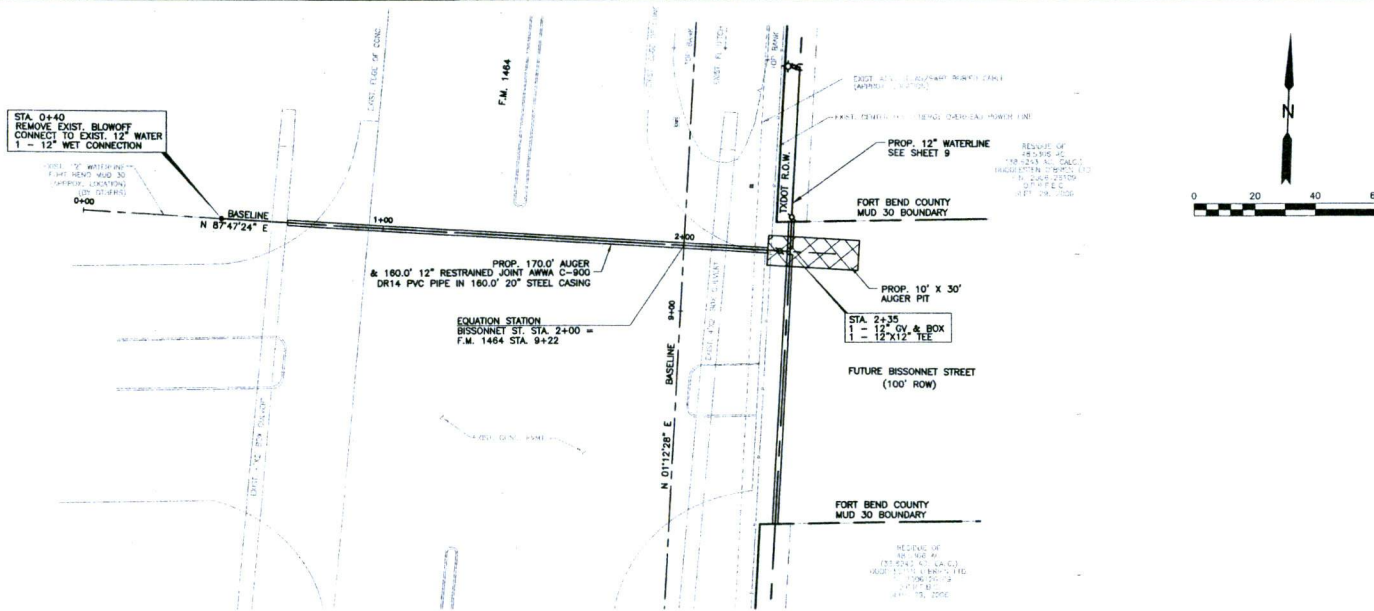
FORT BEND COUNTY M.U.D. NO. 30
FM 1464 - PHASE I
12" WATERLINE IMPROVEMENTS
PLAN & PROFILE
FM 1464 AND WATERING OAKS LN.
INTERSECTION

CITY OF HOUSTON
DEPARTMENT OF PUBLIC WORKS AND ENGINEERING

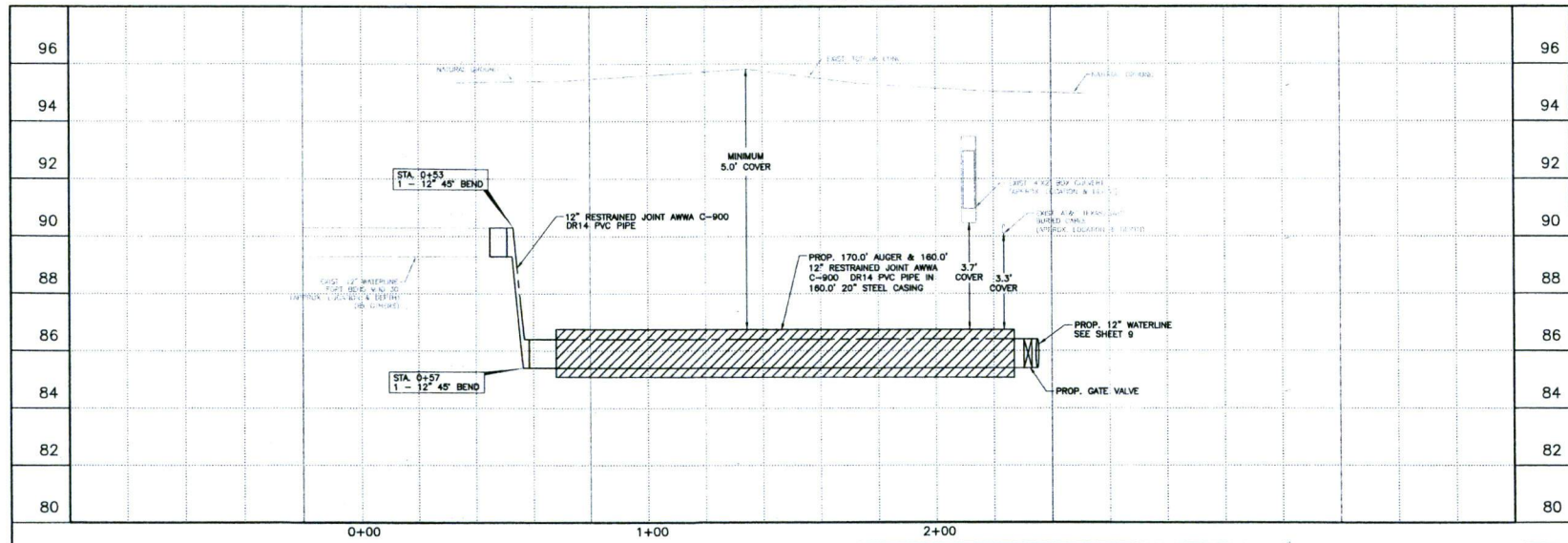
WATER	WATER SUPPLY & TRANSPORTATION
WATER	STORM WATER QUALITY
STORM	FACILITIES
CONCEPT & DESIGN	

FILE NO: FD03-1009	FOR CITY OF HOUSTON USE ONLY
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BISSONNET STREET



UTILITY NOTES

ALL ATTEMPTS HAVE BEEN MADE TO ACCURATELY SHOW ALL EXISTING UNDERGROUND UTILITIES AND PIPELINES. HOWEVER, IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO HAVE THE UTILITY AND PIPELINES PHYSICALLY LOCATED IN THE FIELD PRIOR TO CONSTRUCTION. ALL LIABILITY FOR THE UTILITIES AND PIPELINES ARE SOLELY THE CONTRACTOR'S WHETHER SHOWN ON THE PLANS OR NOT.

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LOCATION OF GAS LINES ARE SHOWN IN AN APPROXIMATE LOCATION ONLY. SERVICE LINES ARE USUALLY NOT SHOWN. THE CONTRACTOR SHALL CONTACT THE UTILITY COORDINATING COMMITTEE AT 713-253-4567 OR 1-800-669-8344 A MINIMUM OF 48 HOURS PRIOR TO CONSTRUCTION TO HAVE MAIN AND SERVICE LINES FIELD LOCATED. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION BEFORE COMMENCING WORK AND AGREE TO BE FULLY RESPONSIBLE FOR ANY DAMAGES CAUSED BY HIS FAILURE TO EXACTLY LOCATED AND PRESERVE THESE UNDERGROUND FACILITIES.

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REVISIONS			
NUMBER	DESCRIPTION	DATE	REVISION

APPROVED: *[Signature]*
DEVELOPMENT COORDINATOR
DATE: 9/2/17

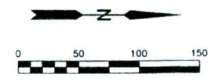
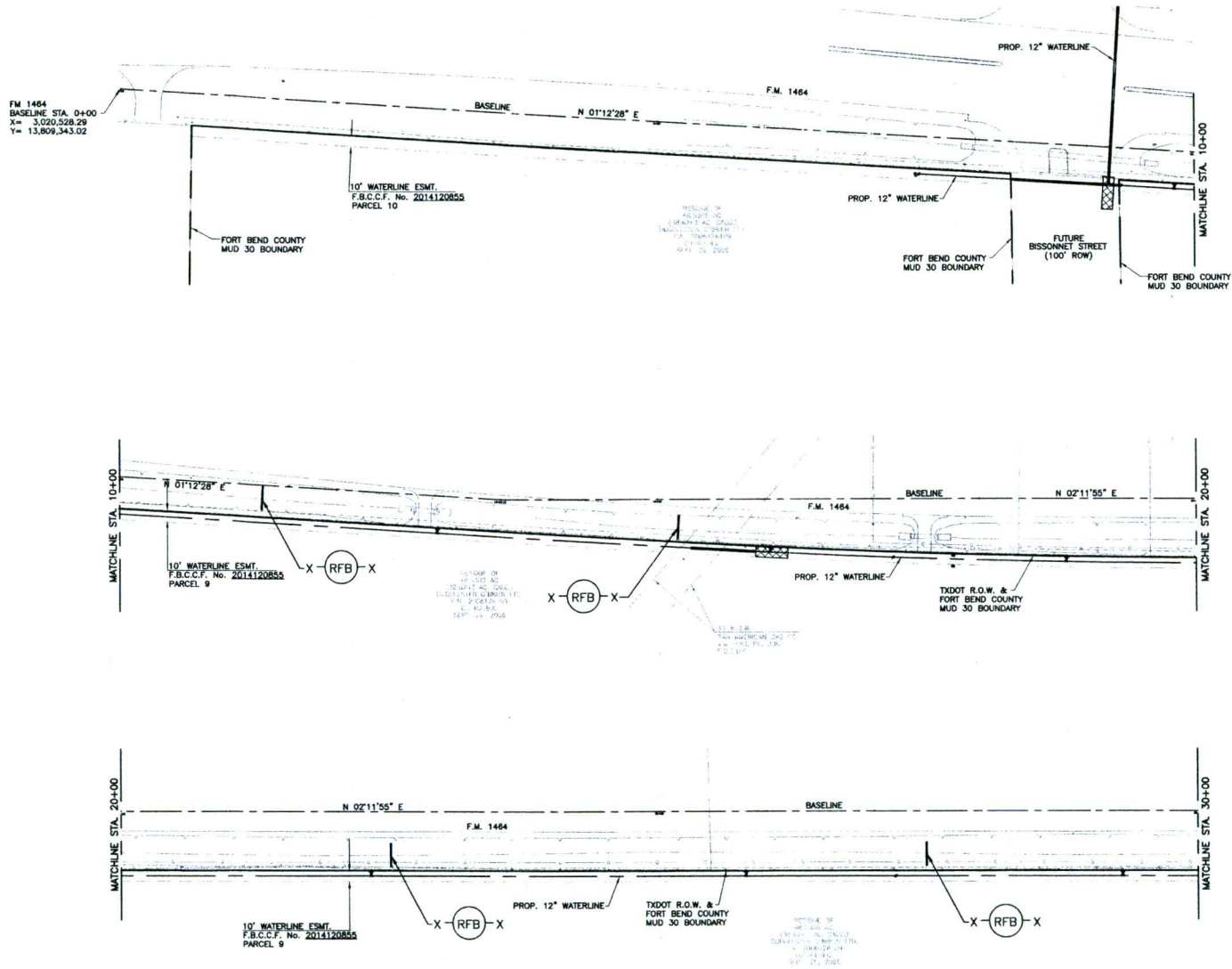


FORT BEND COUNTY M.U.D. NO. 30
FM 1464 - PHASE I
12" WATERLINE IMPROVEMENTS
PLAN & PROFILE
FM 1464 AND BISSONNET ST.
INTERSECTION

NOTE: CITY SIGNATURES VALID FOR ONE YEAR ONLY AFTER DATE OF SIGNATURE

CITY OF HOUSTON
DEPARTMENT OF PUBLIC WORKS AND ENGINEERING
WATER
STREET & SUBS.

FILE NO.: F003-1009
DRAWING SCALE: HORIZ: 1"=20' VERT: 1"=2'
SHEET No. 30 OF 42
FOR CITY OF HOUSTON USE ONLY
68731



LEGEND:
 X (RFB) X = REINFORCED FILTER FABRIC BARRIER

UTILITY NOTES

ALL ATTEMPTS HAVE BEEN MADE TO ACCURATELY SHOW ALL EXISTING UNDERGROUND UTILITIES AND PIPELINES. HOWEVER, IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO HAVE THE UTILITY AND PIPELINES PHYSICALLY LOCATED IN THE FIELD PRIOR TO CONSTRUCTION. ALL LIABILITY FOR THE UTILITIES AND PIPELINES ARE SOLELY THE CONTRACTOR'S WHETHER SHOWN ON THE PLANS OR NOT.

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REVISIONS			
NUMBER	DESCRIPTION	DATE	BY/CHK

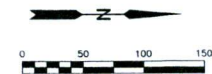
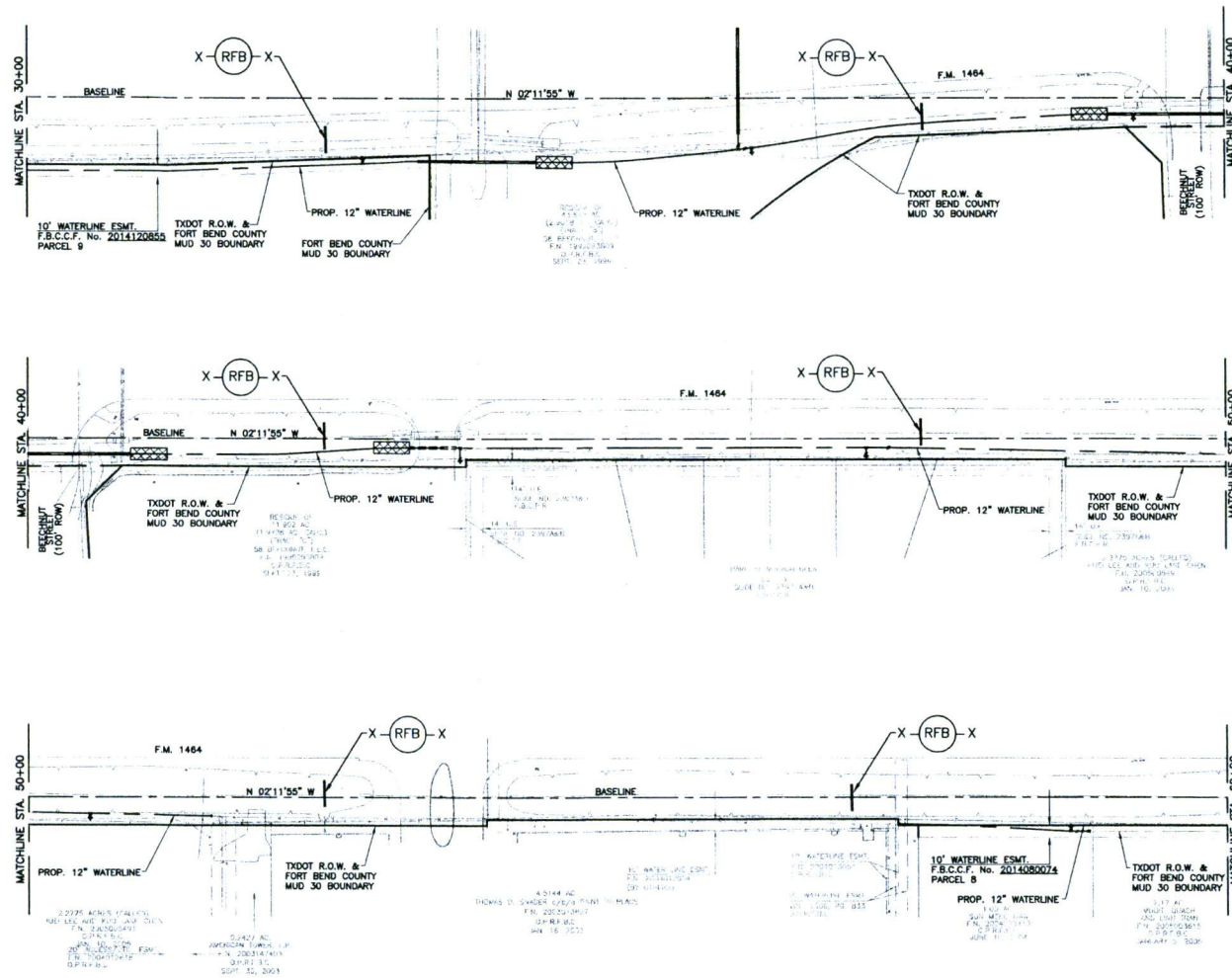
APPROVED: *[Signature]*
 DEVELOPMENT COORDINATOR
 DATE: 9/2/12



FORT BEND COUNTY M.U.D. NO. 30
 FM 1464 - PHASE I
 12" WATERLINE IMPROVEMENTS
 STORMWATER POLLUTION
 PREVENTION PLAN
 STA. 0+00 TO 30+00

NOTE: CITY SIGNATURES VALID FOR ONE YEAR ONLY AFTER DATE OF SIGNATURES
CITY OF HOUSTON
 DEPARTMENT OF PUBLIC WORKS AND ENGINEERING
 DATE: 9/2/12
 STREET & BEAM: 1464

FILE NO: F003-1009	FOR CITY OF HOUSTON USE ONLY
DRAWING SCALE: 1"=50'	
SHEET NO: 31 OF 42	



LEGEND:
 X - RFB - X = REINFORCED FILTER FABRIC BARRIER

UTILITY NOTES

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NUMBER	DESCRIPTION	DATE	REVISION

APPROVED: *[Signature]*
 DEVELOPMENT COORDINATOR

DATE: 9/2/17

J. COSTANZA & ASSOCIATES
 ENGINEERS, ARCHITECTS, PLANNERS & ENVIRONMENTAL SCIENTISTS

FORT BEND COUNTY M.U.D. NO. 30
 FM 1464 - PHASE I
 12" WATERLINE IMPROVEMENTS
 STORMWATER POLLUTION PREVENTION PLAN
 STA. 30+00 TO STA. 60+00

NOTE: CITY SIGNATURES VALID FOR ONE YEAR ONLY
 AFTER DATE OF SIGNATURES

CITY OF HOUSTON
 DEPARTMENT OF PUBLIC WORKS AND ENGINEERING


WATER *[Signature]* STORMWATER QUALITY *[Signature]*
 UTILITY *[Signature]* FACILITIES *[Signature]*
 STREET & SIDEWALK *[Signature]*

FILE NO: F003-1009 FOR CITY OF HOUSTON USE ONLY

DRAWING SCALE: 1"=50'

SHEET No: 32 OF 42

58731


0 50 100 150

LEGEND:

X — (RFB) — X = REINFORCED FILTER FABRIC BARRIER



ONLY NOTES

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WARNING: OVERHEAD LINES MAY EXIST ON THE PROPERTY. WE HAVE NOT ATTEMPTED TO MARK THOSE LINES SINCE THEY ARE CLEARLY VISIBLE, BUT CONTRACTOR SHOULD LOCATE THEM PRIOR TO BEGINNING ANY CONSTRUCTION. TEXAS LAW, SECTION 752, HEALTH & SAFETY CODE, FORBIDS ANY ACTIVITIES IN WHICH PERSONS OR THINGS MAY COME WITHIN SIX (6) FEET OF LIVE OR OVERHEAD HIGH VOLTAGE LINES. CONTRACTOR AND OWNERS ARE LEGALLY RESPONSIBLE FOR SAFETY OF CONSTRUCTION WORKERS UNDER THIS LAW. THIS LAW CARRIES BOTH CRIMINAL AND CIVIL LIABILITY.

REVISIONS			
NUMBER	DESCRIPTION	DATE	INITIALS
	APPROVED: <u> 8/4 </u> DEVELOPMENT COORDINATOR		
	DATE: <u>9/7/12</u>		

FORT BEND COUNTY M.U.D. NO. 30
FM 1464 - PHASE I
12" WATERLINE IMPROVEMENTS
STORMWATER POLLUTION PREVENTION PLAN
STA 50+00 TO STA 100+00

NOTE: CITY REQUIREMENTS VALID FOR ONE YEAR ONLY AT TIME DATE OF SIGNATURES

CITY OF HOUSTON

DEPARTMENT OF PUBLIC WORKS AND ENGINEERING

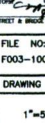
<p>MAILED <u>8-23-12</u></p> <p>STREET & R/W <u>50'-3.1'</u></p>	<p>PURPOSE & DESCRIPTION</p> <p>DRAIN WATER QUALITY</p> <p>UTILITIES</p>
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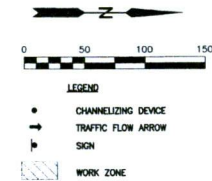
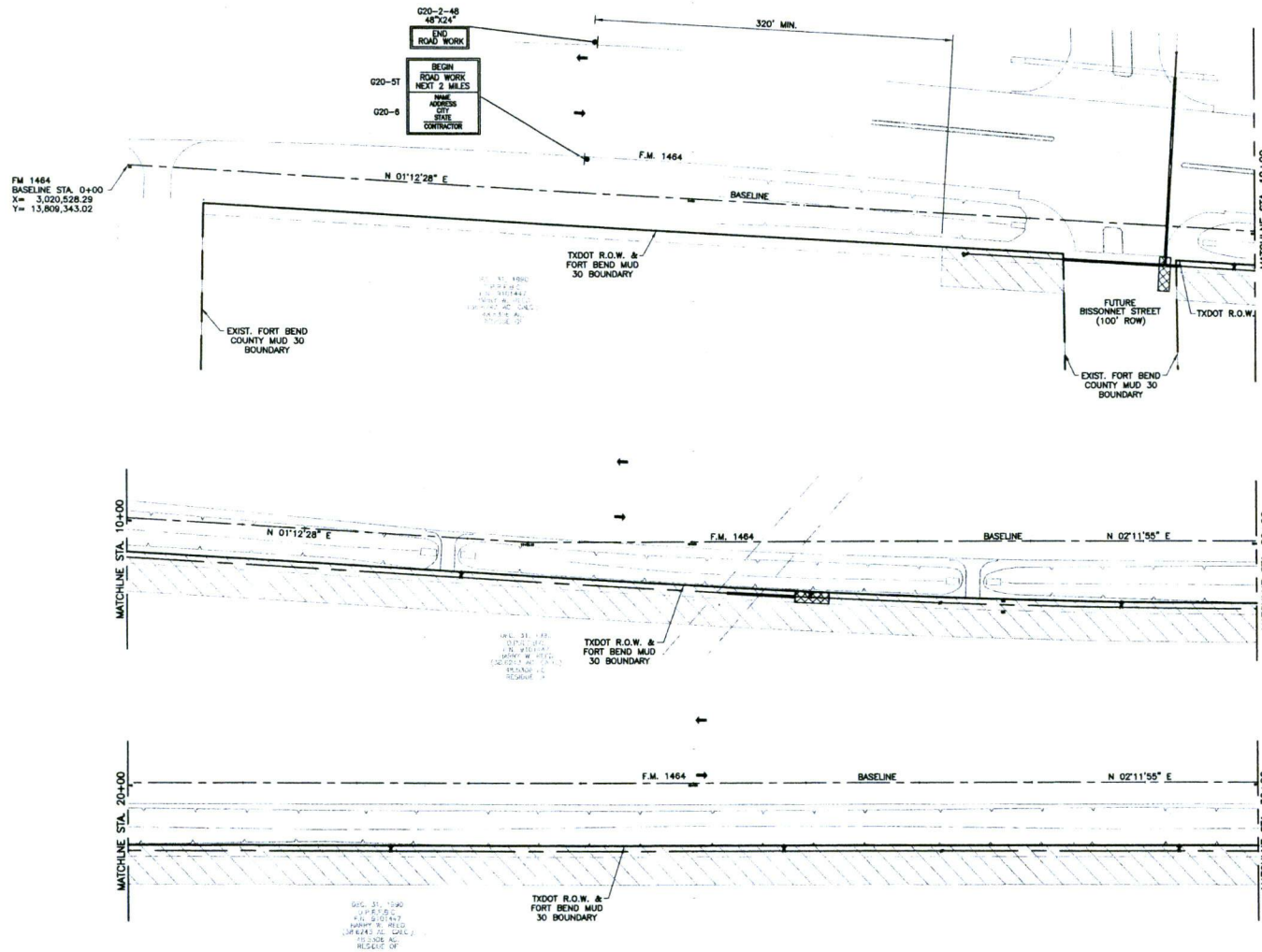
FILE NO: F003-1009 FOR CITY OF HOUSTON USE ONLY

DRAWING SCALE

1" = 50'

SHEET No: 33 OF 42


88731
 RECEIVED
 DESIGN TEAM



NOTES:

1. ALL WORK SHALL BE DONE WITHIN TXDOT R.O.W. OR PROPOSED EASEMENT LIMITS. NO PARKING OF VEHICLES SHALL BE ALLOWED ON SHOULDER. REFER TO TXDOT STANDARD TOP (1-1)-1-12.
2. SIDEWALK CLOSURES SHALL BE TEMPORARY AND ONLY DURING BUSINESS HOURS.

SEQUENCE OF CONSTRUCTION:

1. RE-STAKE LIMITS OF RIGHT-OF-WAY, CLEARING & GRUBBING, THEN STAKING OF ALIGNMENT.
2. SET UP ADVANCED WARNING SIGNS AND CHANNELIZING DEVICES FROM BEGINNING TO END OF PROJECT AND AT SIDE STREETS, AS NEEDED.
3. PLACE STORM WATER POLLUTION PREVENTION PLAN SILT FENCES.
4. SET CONSTRUCTION ENTRANCE NEAR BELLARE BLVD.
5. ENSURE ALL SW3P IS INSPECTED REGULARLY AND THAT IT HAS BEEN PROPERLY INSTALLED TO PROTECT STORM SEWER AND DITCHES ON F.M. 1464.
6. BORE UNDER INTERSECTIONS AND PIPELINES AND CONSTRUCT WATERLINE.
7. REMOVE TCP DEVICES, SIGNING, SW3P SILT FENCE.

UTILITY NOTES

ALL ATTEMPTS HAVE BEEN MADE TO ACCURATELY SHOW ALL EXISTING UNDERGROUND UTILITIES AND PIPELINES. HOWEVER, IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO HAVE THE UTILITY AND PIPELINES PHYSICALLY LOCATED IN THE FIELD PRIOR TO CONSTRUCTION. ALL LIABILITY FOR THE UTILITIES AND PIPELINES ARE SOLELY THE CONTRACTOR'S WHETHER SHOWN ON THE PLANS OR NOT.

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WARNING:
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REVISIONS	DATE	REVISIONS

APPROVED: *[Signature]*
DEVELOPMENT COORDINATOR
DATE: 7/2/17



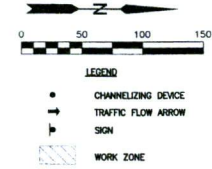
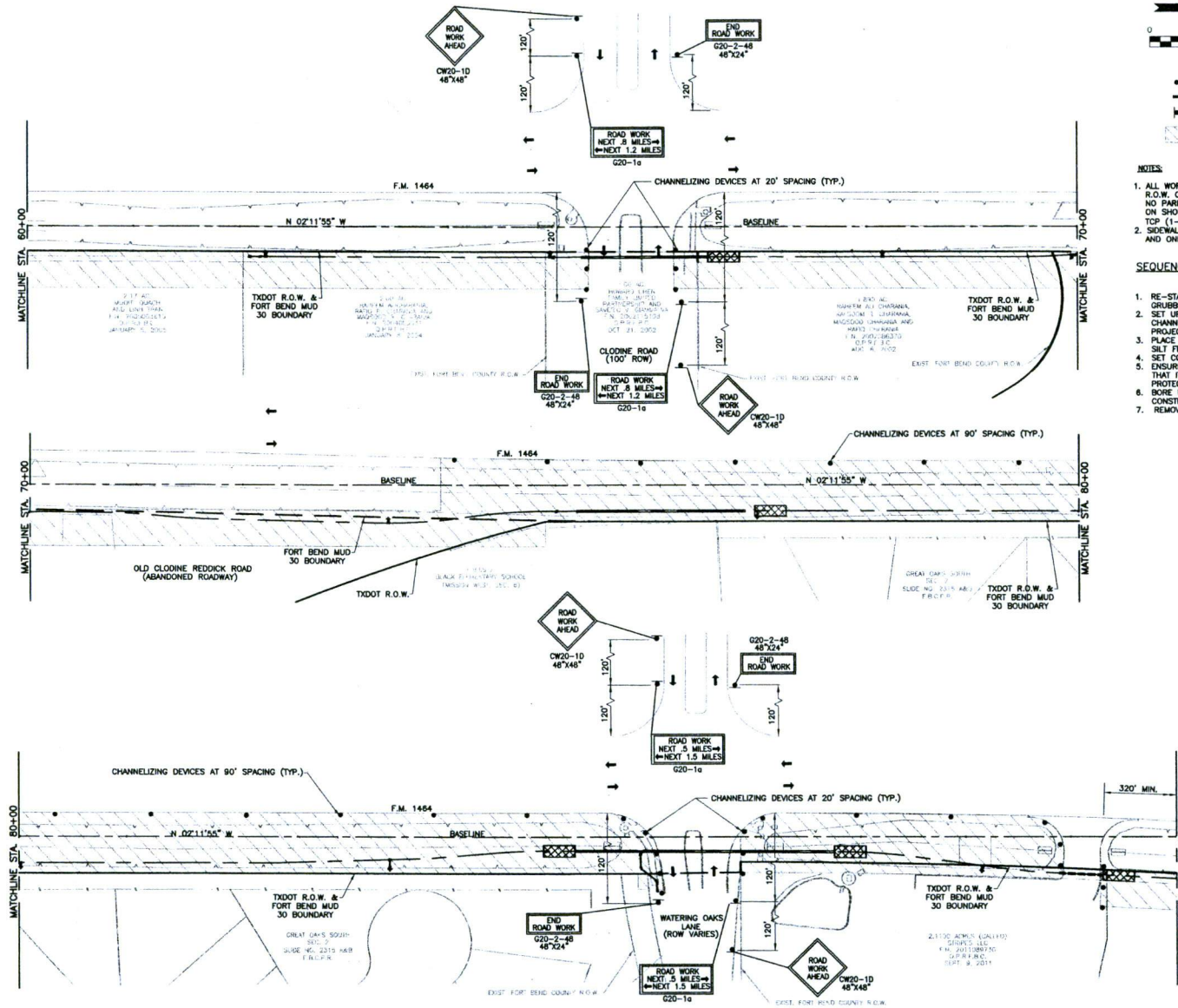
FORT BEND COUNTY M.U.D. NO. 30
FM 1464 - PHASE I
12" WATERLINE IMPROVEMENTS

TRAFFIC CONTROL PLAN
STA. 0+00 TO STA. 30+00

NOTE: CITY SIGNATURES VALID FOR ONE YEAR ONLY AFTER DATE OF SIGNATURES
CITY OF HOUSTON
DEPARTMENT OF PUBLIC WORKS AND ENGINEERING

DATE: 7/2/17
PROJECT: 1009
SHEET: 34 OF 42

FILE NO: F003-1009
DRAWING SCALE: 1"=50'
SHEET No: 34 OF 42
FOR CITY OF HOUSTON USE ONLY
58791



- NOTES:**
1. ALL WORK SHALL BE DONE WITHIN TXDOT R.O.W. OR PROPOSED EASEMENT LIMITS. NO PARKING OF VEHICLES SHALL BE ALLOWED ON SHOULDER. REFER TO TXDOT STANDARD TOP (1-1)-12.
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- SEQUENCE OF CONSTRUCTION:**
1. RE-STAKE LIMITS OF RIGHT-OF-WAY, CLEARING & GRUBBING, THEN STAKING OF ALIGNMENT.
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 3. PLACE STORM WATER POLLUTION PREVENTION PLAN SILT FENCES.
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 5. ENSURE ALL SW3P IS INSPECTED REGULARLY AND THAT IT HAS BEEN PROPERLY INSTALLED TO PROTECT STORM SEWER AND DITCHES ON F.M. 1464.
 6. BORE UNDER INTERSECTIONS AND PIPELINES AND CONSTRUCT WATERLINE.
 7. REMOVE TOP DEVICES, SIGNING, SW3P SILT FENCE.

UTILITY NOTES

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REVISIONS	DATE	BY	REASON
1	7/18/17	JAC	ISSUED FOR CONSTRUCTION

APPROVED: *JAC*
DEVELOPER / COORDINATOR

DATE: 7/18/17

J.A. COSTANZA ASSOCIATES
INCORPORATED, P.C.
12111 WESTHELL DRIVE, SUITE 200
HOUSTON, TEXAS 77040
(281) 415-1212

FORT BEND COUNTY M.U.D. NO. 30
FM 1464 - PHASE I
12" WATERLINE IMPROVEMENTS

TRAFFIC CONTROL PLAN
STA. 60+00 TO STA. 61+00

NOTE: CITY SIGNATURES VALID FOR ONE YEAR ONLY AFTER DATE OF SIGNATURE

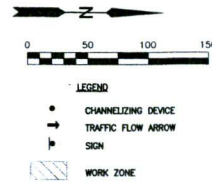
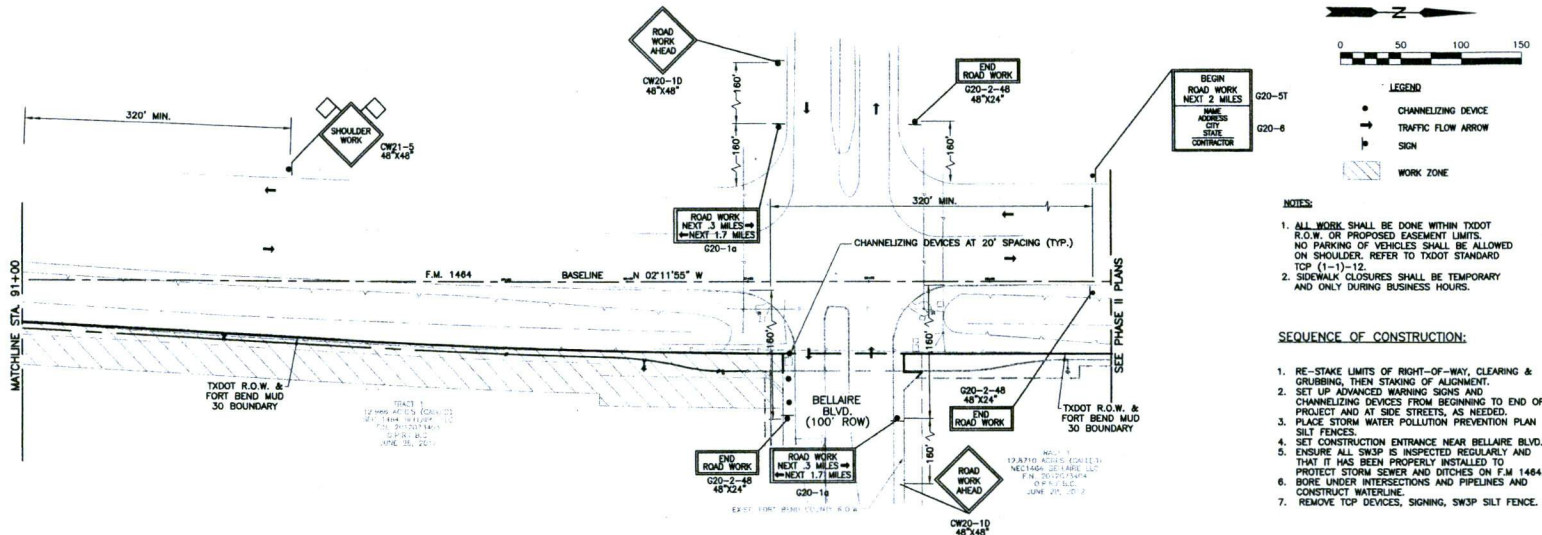
CITY OF HOUSTON
DEPARTMENT OF PUBLIC WORKS AND ENGINEERING

WITH: *[Signature]* ENGINEER
FOR: *[Signature]* INSPECTOR
DATE: 7-18-17

FILE NO: F003-1009
DRAWING SCALE: 1"=50'
SHEET: 36 OF 42

FOR CITY OF HOUSTON USE ONLY

[City Seal]
88731



- LEGEND**
- CHANNELIZING DEVICE
 - TRAFFIC FLOW ARROW
 - SIGN
 - ▨ WORK ZONE
- NOTES:**
1. ALL WORK SHALL BE DONE WITHIN TxDOT R.O.W. OR PROPOSED EASEMENT LIMITS. NO PARKING OF VEHICLES SHALL BE ALLOWED ON SHOULDER. REFER TO TxDOT STANDARD TOP (1-1)-12.
 2. SIGNAL CLOSURES SHALL BE TEMPORARY AND ONLY DURING BUSINESS HOURS.

SEQUENCE OF CONSTRUCTION:

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3. PLACE STORM WATER POLLUTION PREVENTION PLAN SILT FENCES.
4. SET CONSTRUCTION ENTRANCE NEAR BELLAIRE BLVD. ENSURE ALL SWP IS INSPECTED REGULARLY AND THAT IT HAS BEEN PROPERLY INSTALLED TO PROTECT STORM SEWER AND DITCHES ON F.M. 1464.
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REVISIONS			
NUMBER	DESCRIPTION	DATE	BY

APPROVED: *[Signature]*
DEVELOPER COORDINATOR
DATE: 9/2/17



FORT BEND COUNTY M.U.D. NO. 30
FM 1464 - PHASE I
12" WATERLINE IMPROVEMENTS
TRAFFIC CONTROL PLAN
STA. 91+00 TO END OF PROJECT

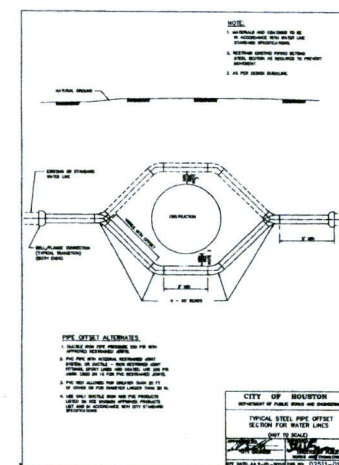
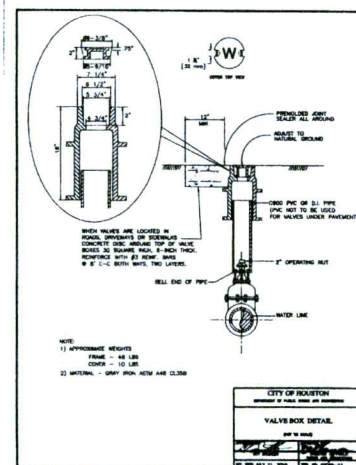
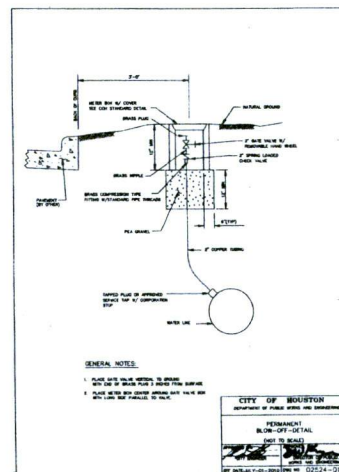
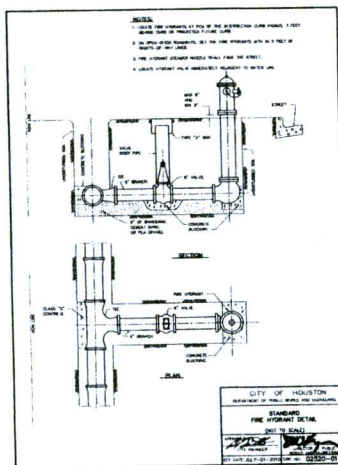
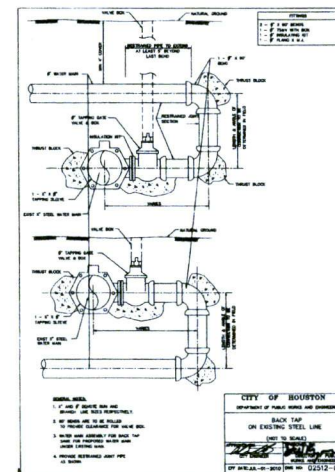
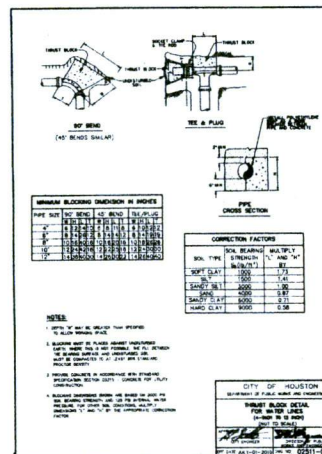
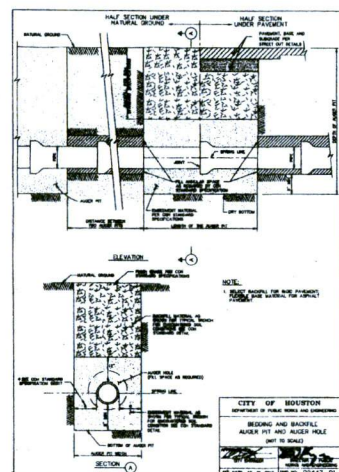
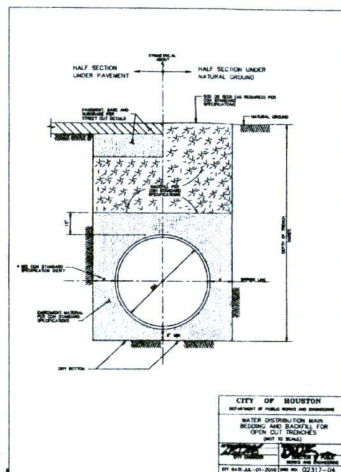
NOTE: CITY SIGNATURES VALID FOR ONE YEAR ONLY AFTER DATE OF SIGNATURES.

CITY OF HOUSTON
DEPARTMENT OF PUBLIC WORKS AND ENGINEERING

WATER: *[Signature]*
STREET & WATER: *[Signature]*

FILE NO: FD03-1009
DRAWING SCALE: 1"=50'
SHEET No: 37 OF 42





REVISIONS			
NUMBER	DESCRIPTION	DATE	DETAILS

APPROVED: *[Signature]*
DEVELOPMENT COORDINATOR

DATE: 7/7/17

J. COSTANZA & ASSOCIATES
INCORPORATED
12121 KIRKWOOD DRIVE, SUITE 100
HOUSTON, TEXAS 77057

FORT BEND COUNTY M.U.D. NO. 30
FM 1464 - PHASE I
12" WATERLINE IMPROVEMENTS

WATERLINE DETAILS

NOTE: CITY SIGNATURES VALID FOR ONE YEAR ONLY
AFTER DATE OF SIGNATURES

CITY OF HOUSTON
DEPARTMENT OF PUBLIC WORKS AND ENGINEERING

DESIGNED BY: *[Signature]*
CHECKED BY: *[Signature]*
IN CHARGE: *[Signature]*

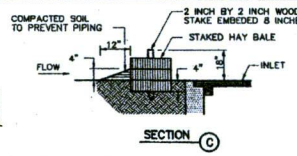
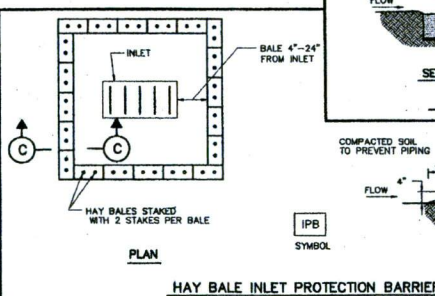
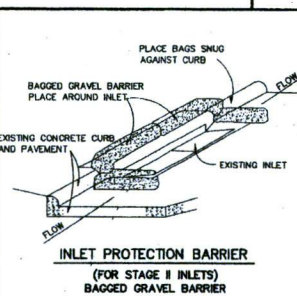
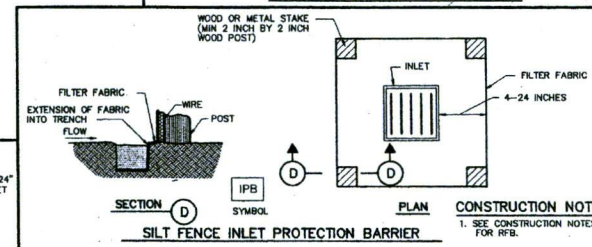
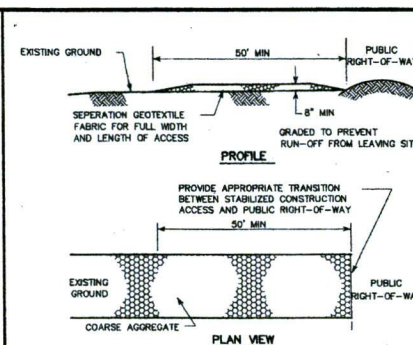
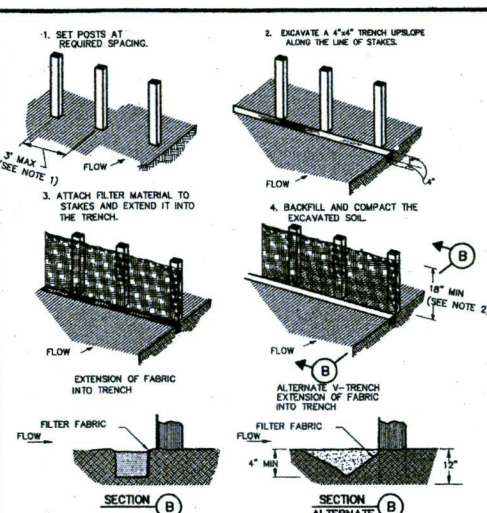
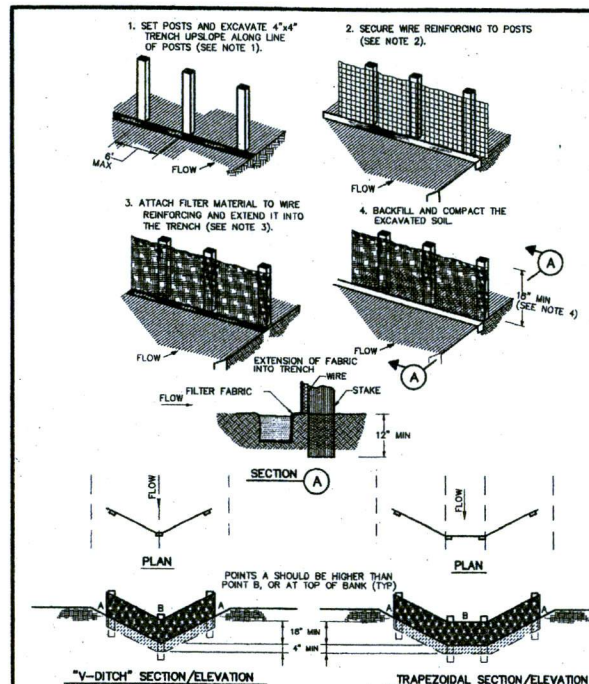
FILE NO: F003-1009

DRAWING SCALE: N.T.S.

SHEET NO: 38 OF 42

FOR CITY OF HOUSTON USE ONLY

88781



CITY OF HOUSTON
DEPARTMENT OF PUBLIC WORKS AND ENGINEERING

STORM WATER POLLUTION PREVENTION PLAN DETAILS
(NOT TO SCALE)

APPROVED: *[Signature]* CITY ENGINEER
DATE: JULY-01-2010

APPROVED: *[Signature]* DIRECTOR OF PUBLIC WORKS AND ENGINEERING
DWG NO: 01571-01

REVISIONS			
NUMBER	DESCRIPTION	DATE	INITIALS

APPROVED: *[Signature]* DEVELOPER COORDINATOR
DATE: 9/5/17

J. COSTANZA & ASSOCIATES
ENGINEERS, INC.
10000 Katy Freeway, Suite 100
Houston, TX 77054-3115
Tel: 281.460.1111 Fax: 281.460.1112

FORT BEND COUNTY M.U.D. NO. 30
FM 1464 - PHASE I
12" WATERLINE IMPROVEMENTS

STORMWATER POLLUTION PREVENTION PLAN DETAILS

NOTE: CITY SIGNATURES VALID FOR ONE YEAR ONLY AFTER DATE OF SIGNATURES.

CITY OF HOUSTON
DEPARTMENT OF PUBLIC WORKS AND ENGINEERING

WITH: *[Signature]* STORM WATER QUALITY
STAMP: *[Signature]* INSPECTOR
STREET & BLOCK: 317

FILE NO: F003-1009
DRAWING SCALE: N.T.S.
SHEET No: 39 OF 42

FOR CITY OF HOUSTON USE ONLY
ACCEPTED: *[Signature]* 8/8/31

BARRICADE AND CONSTRUCTION (BC) STANDARD SHEETS GENERAL NOTES

- The Barricade and Construction Standard Sheets (BC sheets) are intended to show typical methods of placement of temporary traffic control devices, including advance warning signs, flagmen, and other personnel, and the placement of the Barricade and Construction Standard Sheets (BC sheets) are intended to show typical methods of placement of temporary traffic control devices, including advance warning signs, flagmen, and other personnel.
- The development and design of the traffic control plan is the responsibility of the Engineer.
- The Contractor may propose changes to the TCC plan as approved by the Engineer. The Contractor may not add or change the barricade location of any device without the approval of the Engineer.
- The Contractor is responsible for installing and maintaining the traffic control devices to show in the plan. The Contractor may not add or change the barricade location of any device without the approval of the Engineer.
- Scientific design of lane shifts and detours should, when possible, meet the applicable design speed and traffic volume. In the design, the Contractor should consider the following:
 - 1. The design speed of the highway.
 - 2. The traffic volume of the highway.
 - 3. The design of the highway.
 - 4. The design of the highway.
- When projects start, the Engineer may select the END ROAD WORK, TRAFFIC CONTROL, and other advance warning signs. If the signs are not in the plan, the Contractor shall select the signs from the list of signs in the plan. The Contractor shall select the signs from the list of signs in the plan.
- The Engineer may require additional warning signs as the design of the highway and the traffic volume of the highway change. The Engineer may require additional warning signs as the design of the highway and the traffic volume of the highway change.
- All signs shall be constructed in accordance with the details found in the "Standard Highway Signs for Texas", latest edition. The Contractor shall select the signs from the list of signs in the plan. The Contractor shall select the signs from the list of signs in the plan.
- The temporary traffic control devices shown in the illustrations of the BC sheets are intended to show the minimum requirements for the temporary traffic control devices to be used.
- Except for devices required by state law, traffic control devices should be used only when they are necessary to protect or improve traffic flow.
- The Engineer may select the location of any traffic control device as shown in the plan. The Engineer may select the location of any traffic control device as shown in the plan.
- The Contractor shall select the location of any traffic control device as shown in the plan. The Contractor shall select the location of any traffic control device as shown in the plan.

WORKER SAFETY APPAREL NOTES

- Workers on foot who are exposed to traffic or to construction equipment should wear high-visibility safety apparel meeting the requirements of 154 "American National Standard for High-Visibility Safety Apparel" (ANSI Z59.1-2008) approved for use in Class 2 or 3. The apparel should be fluorescent in color and should be reflective in the dark.

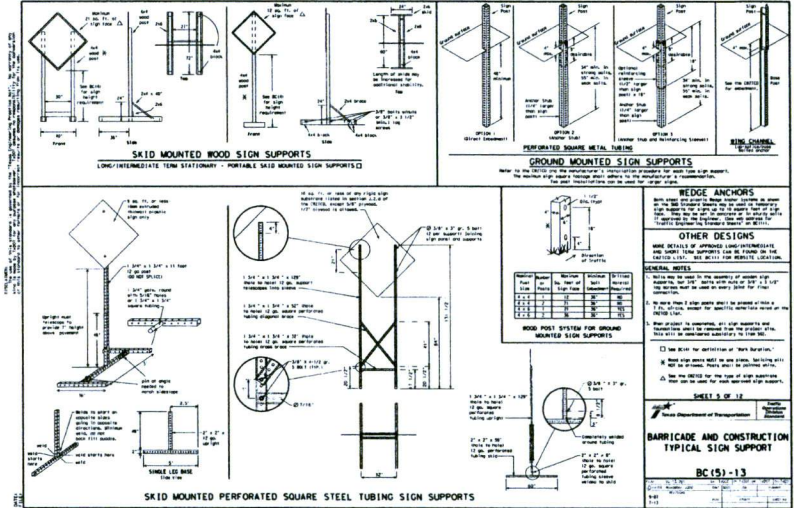
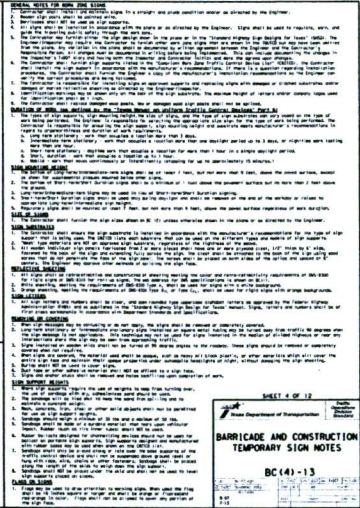
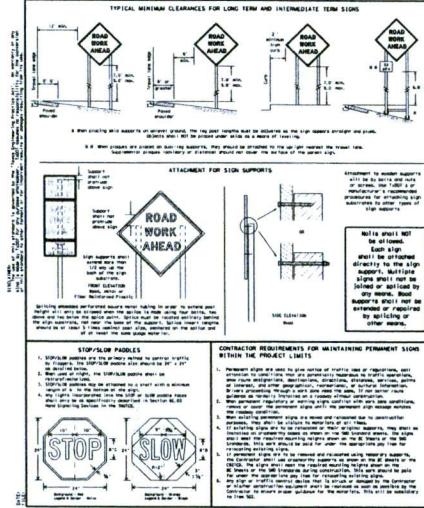
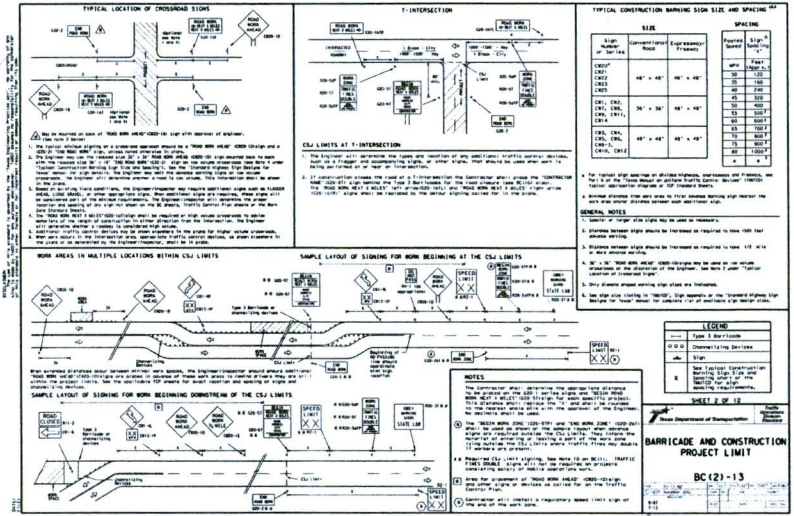
Only pre-qualified products shall be used. The "Commuter Mark Zone Traffic Control Device List" (TCCD) (see list of pre-qualified products and their locations) and may be found online at the web address given below or on the contract.

Texas Department of Transportation
Traffic Operations Division - TC
Phone: (512) 438-3115

THE DOCUMENTS BELOW CAN BE FOUND ON-LINE AT

- THE TEXAS A&M SYSTEMS
- COMPLIANT WITH TEXAS TRAFFIC CONTROL DEVICES LIST (TCCD)
- DEPARTMENTAL MATERIAL SPECIFICATIONS (DMS)
- MATERIAL SPECIFICATIONS LIST (MSL)
- ROADWAY DESIGN MANUAL - SEE "MANUALS (ONLINE MANUALS)"
- STANDARD HIGHWAY SIGN DESIGNS FOR TEXAS (SHSD)
- TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (TMUCD)
- TRAFFIC ENGINEERING STANDARD SHEETS

BARRICADE AND CONSTRUCTION GENERAL NOTES BC(1)-13



REVISIONS	DATE	INITIALS

APPROVED: *[Signature]*
DEVELOPMENT COORDINATOR

DATE: 1/7/17



FORT BEND COUNTY M.U.D. NO. 30
FM 1464 - PHASE I
12" WATERLINE IMPROVEMENTS

TXDOT STANDARDS

NOTE: CITY SIGNATURES VALID FOR ONE YEAR ONLY AFTER DATE OF SIGNATURES

CITY OF HOUSTON
DEPARTMENT OF PUBLIC WORKS AND ENGINEERING

WATER QUALITY

STREET & BRIDGE

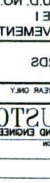
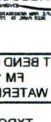

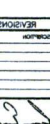
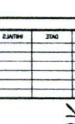

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DRAWING SCALE

N.T.S.

SHEET NO: 40 OF 42

FOR CITY OF HOUSTON USE ONLY

SHEET NO. 41 OF 45		D.T.S.		DRAWING SCALE		FILE NO. 100-1008		FOR CITY OF HOUSTON USE ONLY	
									
								CHECKED BY:  DATE: 11/1/88 DRAWN BY:  DATE: 11/1/88	
								CITY OF HOUSTON DEPARTMENT OF PUBLIC WORKS AND ENGINEERING NOTE: CITY ENGINEER'S AWARD FOR ONE YEAR ONLY WATER MAIN OR SEWERAGE	
								TxDOT STANDARDS	
								15. WATERLINE IMPROVEMENTS FM 1484 - PHASE I FORT BEND COUNTY M.U.D. NO. 30	
									
									
								APPROVED:  DATE: 5/5/88 DEPARTMENTAL COORDINATOR	
								REVISIONS	
								NUMBER DESCRIPTION DATE DRAWN	

