

REVIEW BY FORT BEND COUNTY COMMISSIONERS COURT

Fort Bend County Engineering Department 301 Jackson Suite 401

301 Jackson Suite 401 Richmond, Texas 77469 281.633.7500 Permits@fortbendcountytx.gov

Right of Wa	y Permit
X Commercial	Driveway Permit
Permit No: 2018-2	20459
Applicant: W.W. Payton Corporation	
Job Location Site: 18503 1/2 Beechnut Street, Ricl	hmond, TX 77407
Bond No. Date of Bond: 5/1	8/2018 Amount: \$5,000.00
Bolid No Bate of Bolid	5/2016 Amount. \$5,000.00
Laying, Construction, Maintenance, and Repair of Burie Roads, Streets, Highways, and Drainage Ditches in Fort Commissioners Court of Fort Bend County, Texas," as p	assed by the Commissioners Court of Fort Bend County, ort Bend County, Texas, to the extent that such order is not
grounds for job shutdown. 2. Written notices are required: a. 48 hours in advance of construction	nd ready for final inspection, submit notification to Permit tOnline.org portal.
	and carried, it is ORDERED, ADJUDGED AND DECREED that said by the Commissioners Court of Fort Bend County, Texas, and
By: County Engineer	Presented to Commissioners Court and approved. Date Recorded 7-6-2018 Comm. Court No
N/A By: Drainage District Engineer/Manager	Clerk of Commissioners Court By: 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

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Rigi	ht of Way Permit		
X Con	nmercial Driveway I	Permit	
Permit No	2018-20459		
The following "Notice of Proposed Cable, Condattachments have been reviewed and the notic of Fort Bend County, Texas.		-	
(1) COMPLETE APPLICATION FORM:			
X a. Name of road, street, and/or	r drainage ditch affec	ted.	
X b. Vicinity map showing course	of directions		
x c. Plans and specifications			
(2) BOND:			o de de como semblicado d
County Attorney, approval whe applicable.	n		
Perpetual bond currently posted.	Bond No:	Amount:	
X Performance bond submitted.	Bond No:	Amount: \$5,000.00	
Cashier's Check	Check No:	Amount:	
(3) DRAINAGE DISTRICT APPROVAL (WHE	EN APPLICABLE):	Date	
We have reviewed this project and agree it n	neets minimum req	uirements. 6/25/201	
Permit Administrator		Date	

PERFORMANCE BOND COVERING ALL CABLE, CONDUIT AND/OR POLE LINE ACTIVITY IN, UNDER, ACROSS OR ALONG FORT BEND COUNTY ROAD, COMMERCIAL DRIVEWAY AND MEDIAN OPENINGS OR MODIFICATIONS

AUTHORIZED

THE STATE OF TEXAS

§

BOND NO

KNOW ALL MEN BY THESE PRESENTS:

§ **COUNTY OF FORT BEND** W. W. Payton Corporation THAT whose P.O. Box 1056, Katy, Texas 77492-1056 Texas, hereinafter called the Principal, address is Hartford Casualty Insurance Company a Corporation existing under and by virtue of and authorized to do an indemnifying business in the state of Texas, and whose the laws of the state of Indiana , whose officer residing principal office is located at Hartford, Connecticut in the State of Texas, authorized to accept service in all suits and actions brought whining said state is Michael Heidrick and , hereinafter called the Surety, and held and Whose address is 3000 Internet Blyd., #600, Frisco, Texas 75034 firmly bound unto, Robert e. Hebert, County Judge of Fort Bend County, Texas, or his successors in office, in the full sum _) current, lawful money of the United Stated of of Five Thousand and No/100-----Dollars (\$_5,000.00--America, to be paid to said Robert E. Hebert, County Judge of Fort Bend County, Texas, or his successors in office, to which payment well and truly to be made and done, we, the undersigned, bind ourselves and each of us, our heirs, executors, administrators, successors, assigns, and legal representatives, jointly and severally, by these presents. THE CONDITION OF THIS BOND IS SUCH THAT, WHEREAS, the above bounden principal contemplates laying, constructing, maintaining and/or repairing one or more cables, conduits, and/or pole lines in, under, across and/or along roads, streets and highways, commercial driveway and median openings or modifications in the County of Fort Bend, and the State of Texas, under the jurisdiction of the Commissioners' Court of Fort Bend County, Texas, pursuant to the Commissioners' Court order adopted on the 1st day of December, A.D. 1980, recorded in Volume 13, of the Commissioners' Court Minutes of Fort Bend County, Texas, regulating same, which Commissioners' Court order is hereby referred to and made a part hereof for all purposes as though fully set out herein;

AND WHEREAS, the principal desires to provide Fort Bend County with a performance bond covering all such cable, conduit and/or pole line activity, commercial driveway and median openings or modifications;

NOW, THEREFORE, if the above bounden principal shall faithfully perform all its cable, conduit and/or pole line activity (including, but not limited to the laying, construction, maintenance and/or repair of cables, conduits and/or pole lines) in, under, across and/or along roads, streets and highways, commercial driveway and median openings or modifications in the County of Fort Bend and State of Texas, under the jurisdiction of the Commissioners Court of Fort Bend County, Texas, pursuant to and in accordance with minimum requirements and conditions of the above mentioned Commissioners' Court order set forth and specified to be by said principal done and performed, at the time and in the manner therein specified, and shall pay over and make good and reimburse Fort Bend County, all loss and damages which Fort Bend County may sustain by reason of any failure or default on the part of said principal, then this obligation shall be null and void, otherwise to remain in full force and effect.

This bond is payable at the County Courthouse in the County of Fort Bend and State of Texas.

It is understood that at any time Fort Bend County deems itself insecure under this bond, it may require further and/or additional bonds of the principal.

EXECUTED this 18th day of May

W. W. Payton Corporation

PRINCIPAL

Wesley W. Payton, President

Hartford Casualty Insurance Company

SURET

CCM 7-3-2018 # Fort Bend County Clerk Return Admin Serv Coord Permit #2018-20459 RAC

POWER OF ATTORNEY

Direct inquiries/Claims to: THE HARTFORD BOND, T-12 One Hartford Plaza Hartford, Connecticut 06155 Bond, Claims@thehartford.com call: 888-266-3488 or fax: 860-757-5835

KNOW ALL PERSONS BY THESE PRESENTS THAT:

Agency Name: MARSH & MCLENNAN AGENCY LLC Agency Code: 46-505987

Hartford Fire Insurance Company, a corporation duly organized under the laws of the State of Connecticut	
Hartford Casualty Insurance Company, a corporation duly organized under the laws of the State of Indiana	
Hartford Accident and Indemnity Company, a corporation duly organized under the laws of the State of Connecticut	
Hartford Underwriters Insurance Company, a corporation duly organized under the laws of the State of Connecticut	
Twin City Fire Insurance Company, a corporation duly organized under the laws of the State of Indiana	
Hartford Insurance Company of Illinois, a corporation duly organized under the laws of the State of Illinois	
Hartford Insurance Company of the Midwest, a corporation duly organized under the laws of the State of Indiana	
Hartford Insurance Company of the Southeast, a corporation duly organized under the laws of the State of Florida	
	Hartford Casualty Insurance Company, a corporation duly organized under the laws of the State of Indiana Hartford Accident and Indemnity Company, a corporation duly organized under the laws of the State of Connecticut Hartford Underwriters Insurance Company, a corporation duly organized under the laws of the State of Connecticut Twin City Fire Insurance Company, a corporation duly organized under the laws of the State of Indiana Hartford Insurance Company of Illinois, a corporation duly organized under the laws of the State of Illinois Hartford Insurance Company of the Midwest, a corporation duly organized under the laws of the State of Indiana

having their home office in Hartford, Connecticut, (hereinafter collectively referred to as the "Companies") do hereby make, constitute and appoint, up to the amount of Unlimited :

Roxanne G. Brune, Sharen Groppell, Francine Hay, Beverly A. Ireland, Edward L. Moore, Kurt A. Risk, James W. Tomforde, Gloria Villa of Houston TX, C.W. Adams, Sharon Cavanaugh of HOUSTON,

their true and lawful Attorney(s)-in-Fact, each in their separate capacity if more than one is named above, to sign its name as surety(les) only as delineated above by X, and to execute, seal and acknowledge any and all bonds, undertakings, contracts and other written instruments in the nature thereof, on behalf of the Companies in their business of guaranteeing the fidelity of persons, guaranteeing the performance of contracts and executing or guaranteeing bonds and undertakings required or permitted in any actions or proceedings allowed by law.

In Witness Whereof, and as authorized by a Resolution of the Board of Directors of the Companies on May 6, 2015 the Companies have caused these presents to be signed by its Senior Vice President and its corporate seals to be hereto affixed, duly attested by its Assistant Secretary. Further, pursuant to Resolution of the Board of Directors of the Companies, the Companies hereby unambiguously affirm that they are and will be bound by any mechanically applied signatures applied to this Power of Attorney.



John Gray, Assistant Secretary

M. Ross Fisher, Senior Vice President

STATE OF CONNECTICUT

COUNTY OF HARTFORD

Hartford

On this 11th day of January, 2016, before me personally came M. Ross Fisher, to me known, who being by me duly sworn, did depose and say: that he resides in the County of Hartford, State of Connecticut; that he is the Senior Vice President of the Companies, the corporations described in and which executed the above instrument; that he knows the seals of the said corporations; that the seals affixed to the said instrument are such corporate seals; that they were so affixed by authority of the Boards of Directors of said corporations and that he signed his name thereto by like authority.

Notary Public

My Commission Expires March 31, 2018

I, the undersigned, Assistant Vice President of the Companies, DO HEREBY CERTIFY that the above and foregoing is a true and correct copy of the Power of Attorney executed by said Companies, which is still in full force effective as of May 18, 2018

Signed and sealed at the City of Hartford.















Kevin Heckman, Assistant Vice President

IMPORTANT NOTICE

. A.

To obtain information or make a complaint: You may contact your Agent.

You may call The Hartford's Consumer Affairs toll-free telephone number for information or to make a complaint at:

1-800-451-6944

You may contact the Texas Department of Insurance to obtain information on companies, coverages, rights, or complaints at: 1-800-252-3439

You may write the Texas Department of Insurance:

P.O. Box 149104 Austin, TX 78714-9104 Fax: (512) 490-1007

Web: www.tdi.texas.gov

E-mail: ConsumerProtection@tdi.texas.gov

PREMIUM OR CLAIM DISPUTES:

Should you have a dispute concerning your premium or about a claim, you should contact the (agent) (company) (agent or the company) first. If the dispute is not resolved, you may contact the Texas Department of Insurance.

ATTACH THIS NOTICE TO YOUR POLICY:

This notice is for information only and does not become a part or condition of the attached document.

Inquiries Regarding Claims

Hartford Fire Insurance Company
Hartford Casualty Insurance Company
Hartford Accident and Indemnity Company
Hartford Underwriters Insurance Company

Twin City Insurance Company
Hartford Insurance Company of Illinois
Hartford insurance Company of the Midwest
Hartford Insurance Company of the Southeast

Please address inquiries regarding Claims for all surety and fidelity products issued by The Hartford's underwriting companies to the following:

Phone Number

888-266-3488

Fax - Claims

860-757-5835 or 860-547-8265

E-mail

claims@1stepsurety.com

Mailing Address

The Hartford

The Hartford Fidelity & Bonding (BOND)

Hartford Plaza 690 Asylum Avenue Hartford, CT 06115

FILED AND RECORDED OFFICIAL PUBLIC RECORDS

Laura Richard, County Clerk Fort Bend County Texas July 05, 2018 03:33:50 PM

FEE: \$0.00

RMM

2018075318

FORT BEND COUNTY **MUNICIPAL UTILITY DISTRICT NO. 30 WATER SUPPLY PLANT NO. 3**

PHASE 1

FORT BEND MUNICIPAL UTILITY DISTRICT NO. 30 **BOARD MEMBERS**

> **LINDA S. YORLANO** PRESIDENT

PAUL L. YOUNT, JR. VICE PRESIDENT

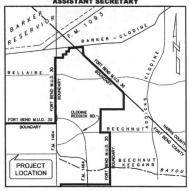
MICHAEL SMITH ASSISTANT VICE PRESIDENT

59 PROJECT 45)

> LOCATION MAP HOUSTON, TEXAS

CHRISTOPHER BELL SECRETARY

PAULINE ROWE ASSISTANT SECRETARY



VICINITY MAP

DATE: JUNE 2017 PLANS PREPARED BY:

COSTANZA A&ASSOCIATES -ENGINEERING. INC

FIRM REGISTRATION No. F-652 DEER PARK, TX 77536 281-930-9339



ILMS NO. 17082135 COH LOG NO. 17-1452

ETJ DETENTION PLANS INFORMATION

STORM WATER DETENTION PLANS IS PROVIDED IN: GRAND VISTA MASS GRADING IMPROVEMENTS FOR PHASE III DETENTION.

DATE SIGNED AND APPROVED BY:

DATE SIGNED AND APPROVED BY:

FROM THE TOTAL STORY OF THE STOR



APP		REVISIONS	DATE
	10-12-1	1	
IATER O	10-12-1	STORM WATER QUAL	JTY
ASTEWATER	10-12-17	TRAFFIC AND TRANS	PORTATION
STREET & BRI	10/12/17	FACILITIES (6	2617



THIS SITE IS IN ZONE "X"

C003 C004 C005 C006 C007 C008 C009 C010 C011 C012 C013 C014 C015 C016 C017 C018

FIRM:
FILOD INSURANCE RATE MAP: FORT BEND COUNTY, TEXAS
AND INCORPORATED AREAS
PAREL 140 OF 575
MAP #48157C0140L
BFE ELEVATION 91.50

COVER
NOTES, LEGEND, & ABBREVIATIONS (1 OF 2)
NOTES, LEGEND, & ABBREVIATIONS (2 OF 2)
WATER PLANT PROCESS FLOW DIAGRAM

WHINDS

WATER SUPPLY DATE THE PLAN
PROPOSED OVERALL SITE PLAN
PROPOSED VARIAL SITE PLAN
WATER SUPPLY PLANT SITE PLAN
PROPOSED TAND PIPMS PLAN
PROPOSED TAND PIPMS SHOW PLAN
PROPOSED DANAME & ROTEN SEWER PLAN
PROPOSED DELIVERT DEVINAGE AREA MAP
PROPOSED DELIVERT DEVINAGE AREA MAP
STORING THE PLAN
TRAFFIC CONTROL PLAN
TRAFFIC CONTROL PLAN
TRAFFIC CONTROL PLAN
TRAFFIC CONTROL PLAN
TOOM PETALS
CYAL BERLAS (1 OF 3)
TOOIT PED—12A (1 OF 4)
TOOIT PED—12A (2 OF 4)
TOOIT PED—12A (2 OF 4)
TOOIT PED—12A (2 OF 4)
TOOIT PED—12A (3 OF 4)
TOOIT PED—12A (4 OF 4)

MOST CROMBINGS
MOST CROWN STANK PLAN, ELEVATION & DETAILS
MOST CROWN STANK PLAN & SECTION
MOST STROPPHEMAINT TANK PLAN AN SECTIONS
MOST STROPPHEMAINT TANK PLAN AND SECTIONS
MOST STROPPHEMAINT TANK PLAN AND SECTIONS
MOST DISTRIPTION STANK PLAN AND SECTIONS
MOST DISTRIPTION STANK & FEED BUILDINGS, PLAN & SECTIONS
MOST MICHARICAL STANK DETAILS

Ground Storage Lark Plan and Section of Fice Plans
Office Sections
Office Sections
Hydropneumatic Tank, Generator, Fiberglass Bldgs. Plans and Sec.
Distribution Pump Foundation Plan and Details

NUMBERS

OKERAL BLECTRICAL SITE PLAN

ELECTRICAL SCOPE OF WORK-ONE LINE DIAGRAM

ELECTRICAL SCOPE OF WORK-ONE POWER AND LIGHTING PLAN

OFFICE & MOC SUBLINGS ELECTRICAL POWER AND LIGHTING PLAN

OKENERATOR ELEVATION, DETAILS AND TANK DIMENSIONS

ELECTRICAL DETAILS, DETAILS AND TANK DIMENSIONS

STRUCTURAL DRAWINGS
ST CROUND STORAGE TANK PLAN AND SECTION

CONTRACTOR SHALL NOTIFY THE CITY OF HOUSTON, DEPARTMENT OF PUBLIC WORKS AND ENGINEERING, OFFICE OF THE CITY ENGINEER, 48 HOURS BEFORE STARTING WORK ON THIS PROJECT. TELEPHONE NO. 832-394-9098.

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

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

ARREVIATIONS

CIVIL SYMBOLS

BENCHMARK

 BOLLARD C CABLE PEDESTAL/BOX

(0) BLOW OFF VALVE

ELECTRIC BOX

MB MAIL BOX

-P- OVERHEAD ELECTRIC

SAN. SEWER MANHOLE

SPRINKLER HEAD

W WATER WELL A LIGHT STANDARD

J ELECTRICAL JUNCTION BOX

-P- OVERHEAD POWER LINE

2 BACKFLOW PREVENTER

EXISTING

MANHOLE

TELEPHONE MANHOLE

T TELEPHONE PEDESTAL UC UNDERGROUND CABLE MARKER

- UNDERGROUND ELECTRIC

WM WATER METER

Ø WATER VALVE

G GAS METER

GAS VALVE

C- GUY WIRE

O-+ HOSE BIBB

· LIGHT STANDARD

IPB INLET PROTECTION BARRIER

PLM PIPELINE MARKER

 POWER POLE SAN. SEWER CLEAN OUT

CHAIN LINK FENCE
UNLESS NOTED OTHERWISE
DRAINAGE SWALE

X ELECTRIC TRANSFORMER

J ELECTRICAL JUNCTION BOX

AIR RELEASE VALVE

GENERAL NOTES - OUTSIDE CITY LIMITS

- UTILITIES PRESENTED ON THESE DRAWINGS ARE SHOWN BASED ON THE BEST AVAILABLE INFORMATION. CONTRACTOR SHALL VERBY THE EXACT LOCATIONS IN THE PELD PRIOR TO COMMENCING CONSTRUCTION. CONTRACTOR SHALL NOTIFY TEXAS ONE CALL AT 713-223-4567 / 800-245-4549 AND LONE STAR ONE CALL AT 800-669-8344 AT LEAS 48 HOURS BEFORE PROCEEDING WITH MY EXCAVATION.
- CONTRACTOR SHALL BE RESPONDED. FOR DAMAZES TO DESTROC WATER WASTERNIES AND THOUSEN, DEPARTMENT OF PUBLIC RESPONDED TO DESCRIPTION THE GETT OF HOUSEN, DEPARTMENT OF PUBLIC ROSES AND DEGREERING'S STANDARD CONSTRUCTION SPECIFICATIONS FOR INSTITUTED COLLISION STRINGS, WHITE LUES, STORM DEFANANCE STREET PAYMED' AND STANDARD CONSTRUCTION DETAILS FOR WASTERNIES OUTSIDE AND ADDITION. MICH. STORM COMMANDED AND THOUSENED AND THE PAYMED LUES, STORM CHARACTER OF THOSE THOUSENED ADDITION.
- CONTRACTOR SHALL NOTIFY THE OFFICE OF THE CITY ENGINEER, DEPARTMENT OF PUBLIC WORKS AND ENGINEERING IN WRITING PRIOR TO COMMENCING CONSTRUCTION.
- CONTRACTOR SHALL COMPLY WITH LATEST EDITION OF OSHA REGULATIONS AND THE STATE
 OF TEXAS LAWS CONCERNING EXCAVATION.
- CONTRACTOR SHALL NOTIFY CITY OF HOUSTON, (281) 478-7278, 48 HOURS BEFORE EXCAVATING IN ROAD R.O.W., DRAINAGE R.O.W., OR EASEMENT.
- CONTRACTOR, SHALL BE RESPONSIBLE FOR OBTAINING ALL CONSTRUCTION PERMITS REQUIRED BY CITY OF HOUSTON, INCLUDING STATE OR FEDERAL PERMITS, BEFORE COMMENCING CONSTRUCTION AT THE CONTRACTOR'S EXPENSE.
- 8. ALL WORK WITH THE PROPERTY LINES OF THE SITE SHALL BE PERFORMED ACCORDING TO THE HOTES AND SPECIFICATIONS DETALLED ON THESE PLANS AND THE CONTRACT WITH THE HOTES AND SPECIFICATION OF THE PROPERTY OF THE CONTRACT WITH THE OWNER OR HIS REPRESENTATIVE FOR ANY WORK NOT DETALLED HERBIN, THOSE TRAD THE OWNER OR
- THE CONTRACTOR MUST SUBMIT CHANCES TO THE TRAFFIC CONTROL PLANS AND RECEIVE APPROVAL FROM THE CITY PERMIT DEPARTMENT 14 DAYS PRIOR TO IMPLEMENTATION.
- 10. ACCESS TO ADJACENT PROPERTIES MUST BE MAINTAINED AT ALL TIMES.

- CONTRACTOR SHALL NOTIFY FORT BEND COUNTY ENGINEERING DEPARTMENT FORTY-EIGHT (48)
 HOURS IN ADVANCE OF COMMENCING CONSTRUCTION AT construction@fortbendtx.gov.

- ALL ABEAS AFFECTED BY CONTRACTOR'S OPERATIONS, INCLUDING BUT NOT LIMITED TO ACCESS RODOR, AMESO OF MATERIAL AND EQUIPMENT STORAGE, AND ALL CONSTRUCTOR AFEAS, SHALL BE STRIPPED OF ALL VEGETATION PRIOR TO COMMENCEMENT OF WORK.
 STRIPPHOSS SHALL BE DESPOSED OF OFFSTRE BY THE CONTRACTOR. ON SEPARATE PAY.
- ALL EXISTING SWALES TO BE CLEANED AND MUCKED FREE FROM ANY VEGETATION PRIOR TO PLACEMENT OF FILL MATERIAL.
- ALL TRENCH BACKFILL FOR UTILITIES SHALL BE COMPACTED TO AT LEAST 95% OF MAXI DENSITY PER ASTM D-698. MOISTURE CONTENT SHALL BE WITHIN 2% OF OPTIMUM. ALL TRENCH BACKFILL SHALL BE CONSIDERED MOIDDENIA. TO UTILITY CONSTRUCTION.
- ALIGNMENT, CENTERLINE CURVE DATA AND STATIONING TO BE VERIFIED FROM APPROVED SUBDIMISION PLAT OR APPROVED PLAT OR RECORDED INSTRUMENT FOR OFFSITE EASEMENTS

- THE CONTRACTOR(S) SHALL NOTIFY THE CITY OF HOUSTON PERMIT DEPARTMENT—FOUR (24) HOURS IN ADVANCE OF COMMENCING UTILITY AND/OR PANNO CONSTRUCTION AT (281) 478—2735 AND WRITTEN HORITICATION FORTY—EDIGHT (34) HOURS IN ADVANCE OF
- PAYING SHALL BE IN ACCORDANCE WITH THE CITY OF HOUSTON SPECIFICATIONS AND/OR AMERICANIS OF THE SAME.
- GUIDELINES SET FORTH IN THE STATE OF TEXAS TXDOT MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES' SHALL BE OBSERVED.
- OWNER OR OWNER'S AGENT TO OBTAIN ALL PERMITS REQUIRED BY THE CITY OF HOUSTON FLOOD PLAIN MANAGEMENT' PRIOR TO STARTING CONSTRUCTION.

SITE WORK NOTES

- ALL INFORMATION OBTAINED FROM GEOTECHNICAL CONSULTANT, INCLUDING SUBSURFACE DATA, LOGS OF SOIL BORINGS AND RECOMMENDATIONS WAS OBTAINED SOLELY FOR USE BY THE 'EMIGHER IN THE DESIGN OF THE PROJECT.
- CONTRACTOR SHALL HAVE TRENCH BRACING AND SUPPORTS DESIGNED BY A TEXAS REGISTERED PROFESSIONAL ENGINEER AND IT SHALL CONFORM TO ALL OSHA REQUIREMENTS AND FORT BEND COUNTY SPECIFICATIONS.
- 4. BACKFILL TO BE COMPACTED IN ACCORDANCE WITH SPECIFICATIONS

GRADING PLAN NOTES

- CLEARING AND REMOVAL OF TOP SOIL SHALL NOT BEGIN UNTIL THE IMPLEMENTATION OF THE SWPPP IS COMPLETED.
- THE SITE SHALL BE CLEARED AND STRIPPED OF ALL TOP SOIL CONTAINING ORGANIC MATERIAL BEFORE THE START OF ANY FILLING OPERATIONS.
- 4. ALL TOP SOIL SHALL BE STOCKPILED ON-SITE IN ACCORDANCE WITH THE SWPPP.

- 1. FORT BEND COUNTY MUST BE INVITED TO THE PRE-CONSTRUCTION MEETING.
- CONTRACTOR SHALL NOTIFY FORT BEND COUNTY ENGINEERING DEPARTMENT 48 HOURS PRIOR TO COMMENCING CONSTRUCTION AND 48 HOUR NOTICE TO ANY CONSTRUCTION ACTIVITY WITHIN THE LIMITS OF THE PAYING AT Construction Merchandcounty's pox

- ALL WEATHER ACCESS TO ALL EXISTING STREETS AND DRIVEWAYS SHALL BE MAINTAINED AT ALL TIMES.
- $4^*\mathrm{x}12^*$ reinforced concrete curb shall be placed in <u>Front</u> of single family lots only. All other areas shall be 6^* reinforced concrete curb.
- AT ALL INTERSECTION LOCATIONS, TYPE 7 RAMPS SHALL BE PLACE IN ACCORDANCE WITH TDOOT PED-12s STANDARD DETAIL SHEET, A.D.A. HANDICAP RAMPS SHALL BE INSTALLED WITH STREET PAYING 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.
- 12. ALL INTERSECTIONS UTILIZING TRAFFIC CONTROL MEASURES SHALL HAVE A.D.A. WHEEL CHAIR

- STREET NAME SCHAUGE SHALL BE ON 6" HOH SON FLAT BLAVE WAREACTIME OREDN BACKGROUNG, STREET HAMES SHALL BE UMPER AND CARROCASE LITTERS OF WHITE HAMES SHALL BE WELLDED FOR A 5" MINIMUM. THE LETTERS SHALL BE REFLECTIVE WHITE STREET NAME SCHOS SHALL BE MOUNTED ON STOP SHOP POST.
- 16. 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.
- 17. THE PROJECT AND ALL PARTS THEORY SHALL BE SUBJECT TO ROPICTION FROM THE TO THE PROPERTY OF ALL PARTS THEORY SHALL BE SUBJECT TO ROPICTION FROM THE TO THE THE PROPERTY OF A THE TOTAL PARTS TO THE PROPERTY OF A THE PROP

SWPPP CONSTRUCTION NOTES

- CONTRACTOR SHALL IMPLEMENT PAET PROTECTION DEWGES AND FILTER FABRIC BARRIER ALDAN GRAD AND SIDE DITCHES AT LOCATIONS SHOWN ON THE TYPICAL STORM MATER POLLITHOR PREVENTION (SMEPP) FUNCT TO KEEP SUIT AND OR EXCAVATED MATERIALS FROM ENTERING INTO THE STORM MATER INLETS AND DITCHES EVENTUALLY POLLUTING THE RECEIVEND STORM.
- DURING THE EXCAVATION PHASE OF THE PROJECT, CONTRACTOR SHALL SCHEDULE THE WORK IN SHORT SEGMENTS SO THAT EXCAVATION MATERIAL CAN BE QUICKLY HALLED ARMY FROM THE SITE AND TO PREVENT IT FROM STAYING UNCELLECTED ON THE SOSTING PANEMENT, AND LOOSE UNEXCAVATED MATERIAL WHICH FALLS ON PAYEMENT ON DRIVEWAYS SHALL BE SWEPT BOOK INTO THE EXCAVATED PARE EXCAVATED AND STAY OF THE STAY O
- CONTRACTOR SHALL CLEAN UP THE EXISTING STREET INTERSECTION AND DRIVEWAYS DAILY, AS NECESSARY, TO REMOVE ANY EXCESS MUD, SRLT, OR ROCK TRACKED FROM THE

- DISTURBED AREAS OF THE CONSTRUCTION SITE THAT HAVE NOT BEEN FINALLY STABILIZED.
 AREAS USED FOR STORAGE OF MATERIALS THAT ARE EXPOSED TO PRECIPITATION.
 STRUCTURAL CONTROL MEASURES.
 LOCATIONS WEDE VEHICLES ENTER OR EXIT THE SITE.
- 6. CONTRACTOR TO BE RESPONSIBLE TO MAINTAIN DOSTING DITCHES AND OR CULVERTS FOR IMPROSTRUCTED PRAINAGE AT ALL TIMES. WHERE SOCIORED IS DISTURBED BY ELCHATION ON BACKFLIAMO OPPRATIONS, SUCH AFEAS SHALL BE REPLACED BY SEEDING OR SOCIONAL SLOPES 4:1 OR STEEPER SHALL BE REPLACED BY BLOCK SOCIONAL.

STORM WATER QUALITY PRE-CONSTRUCTION INSPECTION REQUIREMENTS.

WATER LINE CONSTRUCTION NOTES

- ALL WATER MAINS FOUR (4) INCHES THRU 12 INCHES IN DIAMETER, IF NOT SPECIFIED OTHERWISE, SHALL BE ANWA C-900 PVC PIPE, CLASS 150, DR18, WITH RUBBER GASKETEI BBLL AND SPIGOT PUSH ON JOHN'S.
- ALL VALVES SHALL BE RESILIENT SEAT GATE VALVES UNLESS OTHERWISE NOTED AND SHALL BE SUPPLIED AND INSTALLED IN ACCORDANCE WITH THE LATEST EDITION OF AWWA C-509.
- WEN WATER LINES AND SANTARY SEWER LINES AND INSTALLED, THEY SHALL BE INSTALLED IN CLOSER TO EACH OTHER THAN HISE TEXT (9') IN ALL DIRECTIONS AND PARALLEL LINES STANCE CHANGE OF 10') SEPARATION IN STRINGE CHANGE OF 10'S SEPARATION IN STRINGE CHANGE IS ADDRESS. THE SALESHAME CHANGE SHALL OFFEN. WHALL'S (OCTOBER 2022) CHAPTER 7.03.J AS CURRENTLY MERIODED SHALL OWEN.
- ALL WATER LINE TRENCHES LOCATED UNDER OR WITHIN ONE FOOT (1') OF PROPOSED OR PUTURE PAYMENT SHALL BE BACKFILLED WITH BANK SAND TO WITHIN ONE FOOT (1') OF SUBGRADE. NO SEPARATE PAY. (LAB DENSITY TEST REPORTS ARE REQUIRED PROOF TO PLACEMENT OF PAYMENT.)
- WATER LINE SHALL BE CONSTRUCTED SUCH THAT ALL CROSSES AND TEES WILL NOT BE LOCATED UNDER PROPOSED OR FUTURE PAYING.
- WHERE A MATER LINE OR LEAD CROSSES OR COMES WITHIN 9 FEET OF AN EXISTING SANITARY SEMER OR SANITARY SEMER LEAD AND THAT SANITARY SEMER IS FOUND TO BE LEAVING, REPLACE A 20 FOOT SECTION OF THE SEMER WITH CROO OR 18 PYC OR DUCTILE IRON PIPE CENTERED ON THE CLOSEST POINT.
- PROPOSED WATER LINES CROSSING OVER EXISTING SANTARY SEWER LINES MUST HAVE A FULL LINCHT JOST (20' MOMENA). CONTRIBUT AT THE CROSSING WITH A MINIMUM SEPARATION STATE OF THE CROSSING WITH A MINIMUM SEPARATION STATE OF THE CROSSING WITH A MINIMUM SEPARATION CONTRIBUTION OF THE CROSSING WITH A MINIMUM SEPARATION DISTANCE OF TWO FEET (2') AND RESTRAINED, JOHN'S AT EACH DO OF PIPE SECTION.
- ALL FIRE HYDRANTS SHALL BE LOCATED AS SHOWN ON THE PLANS AND SET THREE FEET (3') BEHND BLOC OF CURB (EXCEPT WITHIN ESPLANADES: WHERE FIRE HYDRANTS SHALL BE SEVEN FEET (7') BEHND BLOCK OF CURB) AND WITH STREAMER NOZZLE 22 INCHES ABOVE FRISHED GRADE UNLESS OTHERWISE NOTED ON HUMB.
- UIILITY CONTRACTOR TO TURN FIRE HYDRANTS AND MAKE ALL FINAL ADJUSTMENTS AFTER COMPLETION OF PAYING. NO SEPARATE PAY.
- NEW MAINS SHALL BE THOROUGHLY DISINFECTED IN ACCORDANCE WITH AWWA SPECIFICATIO C-851 AND THEN PLUSHED AND SAMPLES BEFORE BOING PLACED IN SERVICE. SAMPLES SHALL BE COLLECTED FOR SACTEROLOGICAL ANALYSIS TO CHECK THE EPPICIANTY OF THE

UTILITY NOTES:

CENTERPOINT ENERGY WASHING OVERHEAD ELECTRICAL FACILITIES

- OVERHEAD LINES MAY EXST ON THE PROPERTY. THE LOCATION OF OVERHEAD LINES HAS NOT BEEN SHOWN ON THESE BRAININGS AS THE LINES ARE CLEARLY MISBLE, BUT YOU SHOULD LOCALE THEM PROVE TO BECOMING ANY CONSTRUCTION. TEXAS LINE, SECTION 752, LEALTH AND SAFETY CODE FORBIOS 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 OPPERATION GO ROWAL, GERROX, POWER SHOVEL, DRILLING RIG, PILE DRIVER, HOISTING EQUIPMENT, OR SIMILAR APPARATUS WITHIN 10 FEET OF LIVE OVERHEAD HIGH VOLTAGE LINES.
- PARTIES RESPONSBLE FOR THE WORK, INCLIDING CONTRACTORS ARE LECALLY RESPONSBLE FOR THE SAFETY OF CONSTRUCTION WORKERS UNDER THIS LAW, THIS LAW CARRIES BOTH CRIMINAL AND COMIL LUBBLITY, TO ARRANGE FOR LINES TO BE TURNED OF

CENTERPOINT ENERGY CAUTION: UNDERGROUND GAS FACILITIES

DOCATIONS OF CHRISTMAN TERROY MAN LINES TO PRILIME CASTISTICATE DESCRIPTION THAT THE THREATINE PRINCE LIKE SHEE REPLICABLE AND SHORM HE AN APPROXIMATE LOCATION ONLY, SERVICE LINES AND HOT USUALLY SHORM OUR SCHARLING ON THESE PLANS ONLY BROCKATES THAT ON FACILITIES AND SHOWS IN APPROXIMATE LOCATION, IT DOOS NOT ME CONTRACT LICENTON, IT DOOS NOT ME CONTRACT LICENTON, THE COST HOT ME CONTRACT LICENTON, THE COST HOT MAN APPROXIMATE LICENTON, THE COST HOT LICENT LI

- I WHAN DICKNAMING WITHIN DIGHTERN HICHES (18") OF THE BIOLICATED LOCATION OF CONTREPONT DISTREY FACILITIES, ALL DICKNAMICS HUST BE ACCOMPLISHED USING HEAD CONTRIBUTION OF CONTRIBUTION OF THE ACCOMPLISHED WITHIN DISTREY FACILITIES AND EXPOSED SUPPOSED SUPPOSED HISTORY HAND TO THE FACILITIES TO PREVENT DICESSIVE STRESS OF THE PRIPARY OF THE PROPERTY EXCELLENCE AND ADMINISTRATION OF THE PROPERTY FOR EXECUTION EXCELLENGE MORNEY OR LINES CALL (TI) 2009—2002 OR (TI) 2007—4200

AT&T TEXAS/SOUTHWESTERN BELL NOTES:

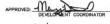
- THE LOCATIONS OF AT&T TEXAS/SHET FACLITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY. HE CONTRACTOR SHALL DETERMINE THE DIXACT LOCATION REFORE COMMERCING WORK. HE ADREST OF REFULTY RESPONSED FOR NAY MON ALL DIAMAGES WHICH MOST HE COCCASIONED BY THIS FALURE TO EXACTLY LOCATE AND PRESERVE THESE UNDERGROUND 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 AT&T TEXAS/SWET FACULIES, ALL EXCAVATIONS MUST BE ACCOMPLISHED USING NON-MECHANIZED DICAVATION PROCEDURES. WHEN BORING, THE CONTRACTOR SHALL EXPOSE THE AT&T TEXAS/SWET FACULITIES.

- PLEASE CONTACT THE AT&T TEXAS DAMAGE PREVENTION MANAGER MR. ROOSEVELT LEE JR. AT (713)567—4552 OR E—MAL HIM AT RL7259@ATT.COM, IF THERE ARE QUESTIONS ABOUT BORNIG OR EXCAVATION NEAR OUR ATAT TEXAS/SWIDT FACILITIES.

BENCHMARK DATA:

CONTROL BENCH - RM = (0769) BRASS DISK SET IN EAST E OF SOUTH HEADWALL, APPROX. 0.45 MALE WESR OF MILEPOST NO. 25 & APPROX. 17 SOUTH OF CENTERALE OF FM 1093 (FBCSD ID: 0769). PONT IS WEST OF THE INTERSECTION OF HARCLER ROAD & FM 1095 (NED LIGHT), 3.03 MALES. ELEVATION: 10552 (NIVO 1823, 1987 AU.)

REVISIONS						
BER	DESCRIPTION	DATE	INTIMLS			
		-				



DATE: WITH





4301 CENTER ST. DEER PARK, TX 77536 281-930-93. FORT BEND COUNTY MUD No. 30 WATER SUPPLY PLANT NO. 3

PHASE I NOTES, LEGEND, & ABBREVIATIONS

(1 OF 2)

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

DEPARTMENT OF PUBLIC WORKS AND ENGINE
WITH DEPARTMENT BIOGROSSION
WATER BOOK TO THE BOOK OF THE BOOK O

JAC JOB No. F003-1445 N.T.S.

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FOR CITY OF HOUSTON USE ONLY

- THIS WATER DISTRIBUTION SYSTEM MUST BE CONSTRUCTED IN ACCORDANCE WITH THE CURRENT TEXAS COMMISSION OF DYNORMACIA, COALUTY (TOCK) RALES AND REQULATIONS OF PUBLIC WATER SYSTEMS 30 TEXAS ADMISSIONATION COOR (TAC) CHAPTER 200 SUBCHAPTER 0. MEDI CONFIDERIZATE AND TOTAL WITH LOCAL STANDARDS, THE MORE STRINGENT REQUIREMENT SHALL BE APPULED. CONSTRUCTION FOR PUBLIC WATER SYSTEMS MUST ALWAYS, AT A MINIMAN, WATER TOCKS THAT AND REQULATIONS FOR PUBLIC WATER SYSTEMS.
- AN APPOINTED DIGNERS SHALL NOTIFY IN MINIOR THE LOCAL TOZO'S REGIONAL OFFICE WHEN CONSTRUCTION WILL START, PLASE RESP IN MINIOR DIANT LIPOR COMPATION OF THE METHER WORKS PROJECT, THE EMPRISE COMMENTS WHEN LIPOR TO THE COMMENTION AND AND ATTEST TO THE PART THE WORK HAS BEEN COMPLETED SESTIMALLY ACCORDED TO THE PLANS AND CHAMBEL OF DESTRUCTION OF THE WITH THE COMMENSION AS REQUIRED IN 30 THE \$200-304(1)(3).
- THE MIN THE COMMISSION OF RECORD IN SO THE SECONDARY TO AMERICAN NATIONAL STANDARDS NATIONAL METALLED PIESS AND RELATED PRODUCTS MUST CONFORM TO AMERICAN NATIONAL STANDARDS INSTITUTE (ANS), ANS FURTHERNATIONAL STANDARD 61 AND MUST BE CERTIFIED BY AN ORGANIZATION ACCREDITED BY ANSI, AS REQUERED BY 30 THE \$290-44(A)(I).
- ANS, AS RECURRED TO SO THE SERVING WATER SYSTEMS MUST BEAR THE NSF INTERNATIONAL SEAL OF APPROVAL (NSF-PM) AND HAVE AN ASTA DESIGN PRESSURE RATING OF AT LEAST 150 PSI OR A STANDARD DIMENSION RATIO OF 26 OR LESS. AS REQUIRED BY 30 TAC \$250.44(A)(2).
- NO OF MICHON AS REQUIRED BY 30 TAC \$290.44(A)(2).

 NO PRE WHICH HAS BEEN USED FOR AMY PURPOSE OTHER THAN THE CONNEYANCE OF DRINKING WATER SHALL BE ACCEPTED OR RELOCATED FOR USE IN ANY PURBLC DRINKING WATER SUPPLY, AS REQUIRED BY 30 TAC \$290.44(A)(2).
- RATER TRANSSION AND DISTRIBUTION LINES SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS, HOWEVER, THE TOP OF THE WATER LINE MUST BE LOCATED BLOW THE FROST LINE AND IN NO CASE SHALL BE TOP OF THE WATER LINE BE LESS THAN 24 NONES BLOW GROUND SIRP ACE, AS REQUIRED BY 30 TAC \$2004-440(A).
- SEASON-MANUEL TO EDGE ANALYSIS. THE PROPERTIES LEAFAGE BATE SHALL HIS DUCKED THE ANALYSIS ALLOHOUS OF THE MEDICAL BROWN THAN ANALYSIS ANAL

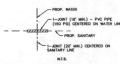
- ERE:
 L = DIE QUANTITY OF MAKEUP MATER IN GALLONS PER HOUR,
 S = DIE LINCHH OF DIE PIE SECTION BEION EISTE, IN FEET,
 D = THE NORMAN DUMETER OF THE PIE IN HOMES, MON
 P = THE AMENING TEST PRESSARE DURING THE HOMBOSTATIC TEST IN POUNDS PER SOUMER INCH (PS). AFTER JANUARY 4, 2014 ALL CONSTRUCTION PROJECTS MUST COMPLY WITH CHANGES TO THE SAFE DRINKING WATER ACT THAT REDUCE THE MAXIMUM ALLOWABLE LEAD CONTENT OF PIPES, PIPE FITTINGS, PLUMBING FITTINGS, AND FIXTURES TO Q.29 PERCENT.
- PIXTURES TO 0.29 PERCENT.

 9. THE SYSTEM MAST BE DESCREED TO MAINTAIN A MINIMUM PRESSURE OF 35 PS AT ALL POINTS WITHIN THE DISTRIBUTION INSTRUMENT AT FLOW FIRSTS OF AT LEAST 1.5 GALLONS PER MINITE PER CONNECTION. WHICH THE SYSTEM IS NETERALD TO PROVIDE PRESIDENT OF CAPABILITY, IT MUST ALSO BE DESCRIED TO MAINTAIN A MINIMUM PRESSURE OF OF SHADER COMBENED FIRST AND DEPOSITION OF CONSTRIBAT SERVICIONED SHIP STATE.
- 10. THE CONTRACTION SHALL INSTALL APPROPRIATE ARE RELAKE EXPLOSES IN THE DISTINUATION SYSTEM AT ALL POINTS WHERE CONCOMENTY OF OTHER FACTORS MAY ORGER FOR RECITION OF THE PROPRIES OF THE LIBES, ALL UNITY OPERINGS THE ATHORSPHERE SHALL BE COVERED WITH 5-MEST OF FIRST, CORROSON RESISTANT SCREENING MATERIAL, OR AN ACCEPTABLE COUNTAINT AS REQUIRED BY 30 TAG 9280-44(0)(1).
- PURSUANT TO 30 TAC \$290.44(D)(4), ACCURATE WATER METERS SHALL BE PROVIDED. SERVICE CONNECTIONS AND METER LOCATIONS SHOULD BE SHOWN ON THE PLANS.
- 12. PURSUANT TO 30 TAC \$290.44(D)(5), SUFFICIENT VALVES AND BLOWOFFS TO MAKE REPAIRS. THE ENGINEERING REPORT SHALL ESTABLISH CRITCHIA FOR THIS DESIGN.
- REPORT SHALL ESTABLISH ORTHÄN FOR THIS DESIGN.

 JA PARSHANT TO JO DA (2904-04(0)). HE SYSTEM MADE DESIGNED TO AFFORD EFFECTIVE GROLALIDIO OF MAZES WITH A BINISHAN OF DOED (DEED, ALL DEA)—DOE MADE SHALL BE PROVIDED WITH ACCUPANCE FLUSH MAZES BY THE PORT OF TH
- THE 2 OF THE SECRETARY OF THE CONTROL THAT STATES OF THE APPLICATION OF THE MATTERIES TO A WASTEWATER TO BE PRESENTED TO THE ESPECIATION OF STATES. THE APPLICATION OF THE APPLICATION O
- 16. PURSUANT TO 30 TAC \$290.44(CXG), FIRE HYDRANTS SHALL NOT BE INSTALLED WITHIN NINE FEET VERTICALLY OF HORIZONTALLY OF ANY WASTEWATER LINE, WASTEWATER LATERAL, OR WASTEWATER SERVICE LINE REGARDLESS OF CONSTRUCTION.
- 17. PURSUANT TO 30 TAC \$200.44(E)(T). SUCTION MAINS TO PRAIPING EQUIPMENT SHALL NOT CROSS WASTEWATER MAINS, MASTEMATER ASSEMBLY SERVICE LINES, SAW MATER SUPPLY LINES SHALL NOT SECURITY OF THE STATE OF THE SHALL NOT SEC
- 18. PURSUANT TO 30 TAC \$280.44(E)(6), WATERLINES SHALL NOT BE INSTALLED CLOSER THAN TEN FEET TO SEPTIC TANK DRAWFIELDS.
- 19. PURSUANT TO 30 TAC \$290.44(F)(1). THE CONTRACTOR SHALL NOT PLACE THE PIPE IN WATER OR WHERE IT CAN BE FLOODED WITH WATER OR SEWAGE DURING ITS STORAGE OR INSTALLATION.
- 20 PURSUANT TO 30 THE \$250.0(7/2) NEST WITHERS SEE ALL DEFINED ANY FLORING OR NETWATER'S STREET SERVICE AND FROM THE SERVICE S
- VINUATION OF THE STREET OF ITS STREET OF ITS SOLATED AND INSTITU.

 2. THE CONTRICTOR SHALL DISN'REST THE NEW NATER MAKES IN ACCIONANCE WITH AWAR STANDARD C-651 AND THEN FLUISH AND SAMPLE THE LIMES REFORE DEED PLACED BY DESTRUCE SAMPLES SHALL BE COLLICITED FOR STREET, AND ALL OF COLLICITED AWARD STREET, AND ALL OF COLLICITED AWARD STREET, AND ALL OF COLLICITED AWARD STREET, AND ALL OF COLUMNITY OF PROPERTY OF AWARD STREET, AND ALL OF COLUMNITY OF PROPERTY OF AWARD STREET, AND ALL OF COLUMNITY OF PROPERTY OF AWARD STREET, AND ALL OF COLUMNITY OF PROPERTY OF AWARD STREET, AND ALL OF COMPANY OF AWARD STREET, AND ALL OF COLUMNITY OF AWAR

SANITARY SEWER / WATER LINE CROSSING



BEDOING SHALL BE A MINBRAIM OF SIX INCHES ABOVE AND FOUR INCHES BELOW THE MASTERIATER MAIN OR LATERAL. THE USE OF BROWN COLORNO IN CARBOT STREAD SHAND FOR MASTERATER MAIN OF PRESSURE RATED AND COLORNO STREAD FOR THE STREAM SHAND SHALL HAVE A MINBRAIM OF TOT CEMENT PER CUBE TABLE OF COLOR STREAM SHALL HAVE A MINBRAIM OF TOT CEMENT PER CUBE TABLE OF COLOR STREAM SHALL HAVE A MINBRAIM OF TOT CEMENT PER CUBE TABLE TO SHALL THE MATTER SHAND SHAN

STORM SEWER CONSTRUCTION NOTES

- STORM SEMER SHALL BE REINFORCED CONCRETE PIPE (C-76, CLASS B), AND SHALL BE INSTALLED, BEDDED, AND BACK FALLED IN ACCORDANCE WITH THE CITY OF HOUSTON STANDARD DETAILS DRIAMNO NOS. 02317-02, 02317-03, 02317-03, 02317-03, AMD 02317-07 (OCT. 2002) AS APPLICABLE UNLESS OTHERWISE SHOWN ON THE
- DIAMPHUS.

 2. ALL STORM SEMER CONSTRUCTED IN SIDELOT EASEMENT SHALL BE R.C.P. (C-76, CLASSII) AND SHALL BE EMBLDOED IN ACCORDANCE WITH THE CITY OF HOUSTON DRAWING NOS. 02317-02, 02317-03, 02317-05, 02317-06, AND 02317-07 AS APPLICABLE.
- QUEST-OF AS APPLICABLE.

 A. ALL SERRE MEDIES PROPOSED OR FUTURE PARKBENT AND TO A PORT ONE (1) FOOT BACK OF ALL PROPOSED OR FUTURE CORRES SHALL BE BACGFLED WITH 1-17 SINC CORMIT/CY. STABLEZED SAND TO WHITN OWE (1) FOOT OF ALL PROPOSED ONE TO WHITN OWE (1) FOOT OF ALL PROPOSED MEDIES SHALL BE BACGFLED AND TO WHITN OWE (1) FOOT OF THE STABLE SHAPE OF THE STABLE SHAP
- CIRCULAR AND ELLIPTICAL REINFORCED CONCRETE PIPE SHALL BE INSTALLED USING RUBBER GASKET JOINT CONFORMING TO ASTM C443 AND ASTM C677 RESPECTIVELY.
- B. ALL STORM SEWER PIPES AND INLET LEADS SHALL BE 24" AND LARGER R.C.P. (C-76, CLASSII).

- 11. ALL DITCHES SHALL BE REGRADED TO PROPOSED ELEVATIONS TO INSURE PROPER DRAINAGE. ALL OUTFALLS SHALL BE PROPERLY BACKFILLED AND COMPACTED. ALL DISTURBED AREA SHALL BE REGRADED, SEEDED, AND FERTILIZED.
- 12. ALL DRIVEWAYS WILL BE LOCATED TO AVOID EXISTING CURB INLET STRUCTURES.

BENCHMARK DATA:

CONTROL BENCH — RM = (Q769) BRASS DISK SET IN EAST END OF SOUTH HEADWAIL, APPROX. 0.45 MILE WESR OF MIEPOST NO. 25 & APPROX. 17 SOUTH OF CENTRELINE OF PM 1093 (PBCS) ID: 0769). POBIT IS WEST OF THE INTERSECTION OF HARLEM ROAD & PM 1093 (RED LIGHT) 3.03 MILES. ELEVATION: 103.52 (1040-1929, 1887-ADJ.)

REVISIONS					
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APPROVED: MANY COORDIN

DATE: WITH





T.B.P.E. FIRM REGISTRATION No. F-852 4301 CENTER ST. DEER PARK, TX 77536 281-930-9339

FORT BEND COUNTY MUD No. 30 WATER SUPPLY PLANT NO. 3 PHASE I

NOTES, LEGEND, & ABBREVIATIONS (1 OF 2)

FOR CITY OF HOUSTON USE ONLY

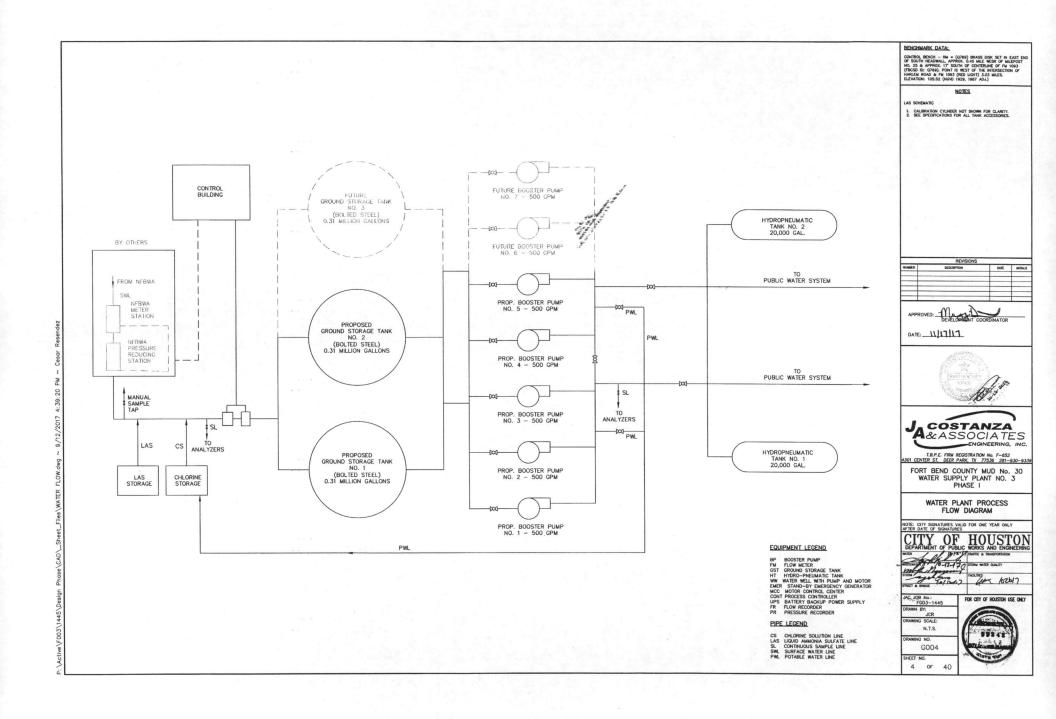
NOTE: CITY SIGNATURES VALID FOR ONE YEAR ONLY AFTER DATE OF SIGNATURES

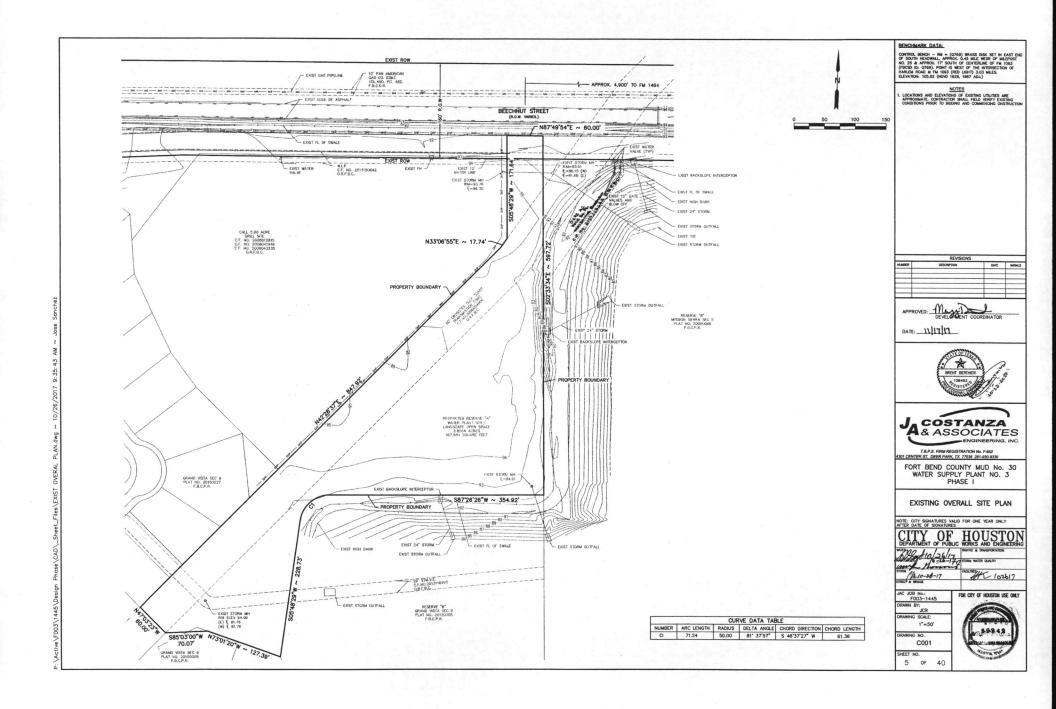
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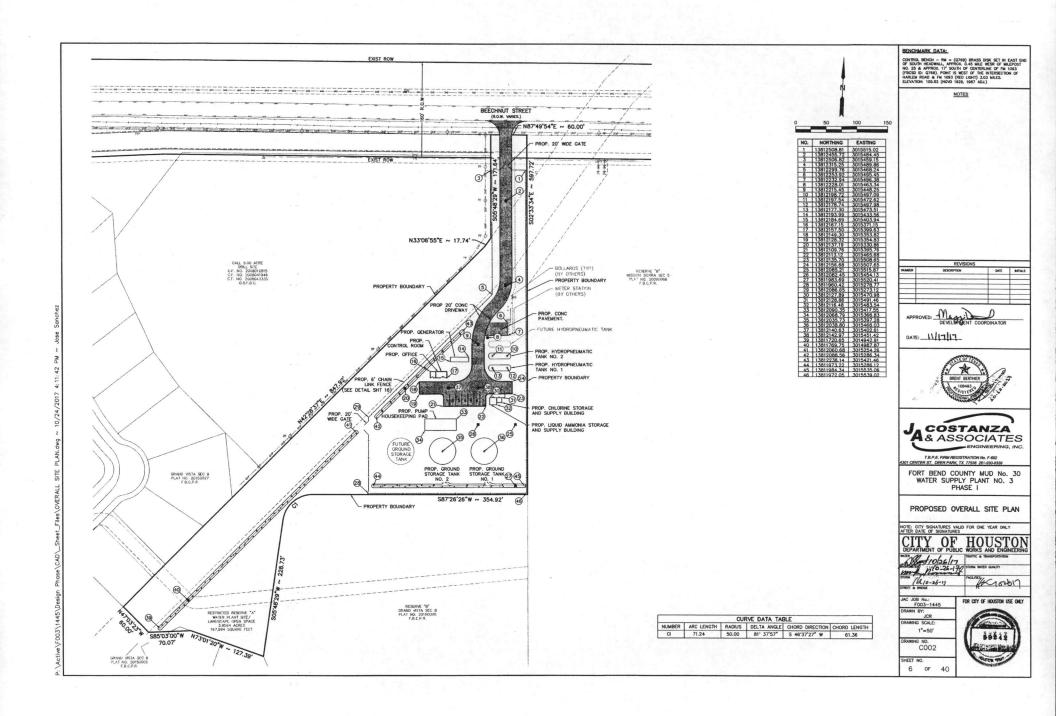
JAC JOB No.: F003-1445 DRAWN BY: JCR VING SCALE N.T.S.

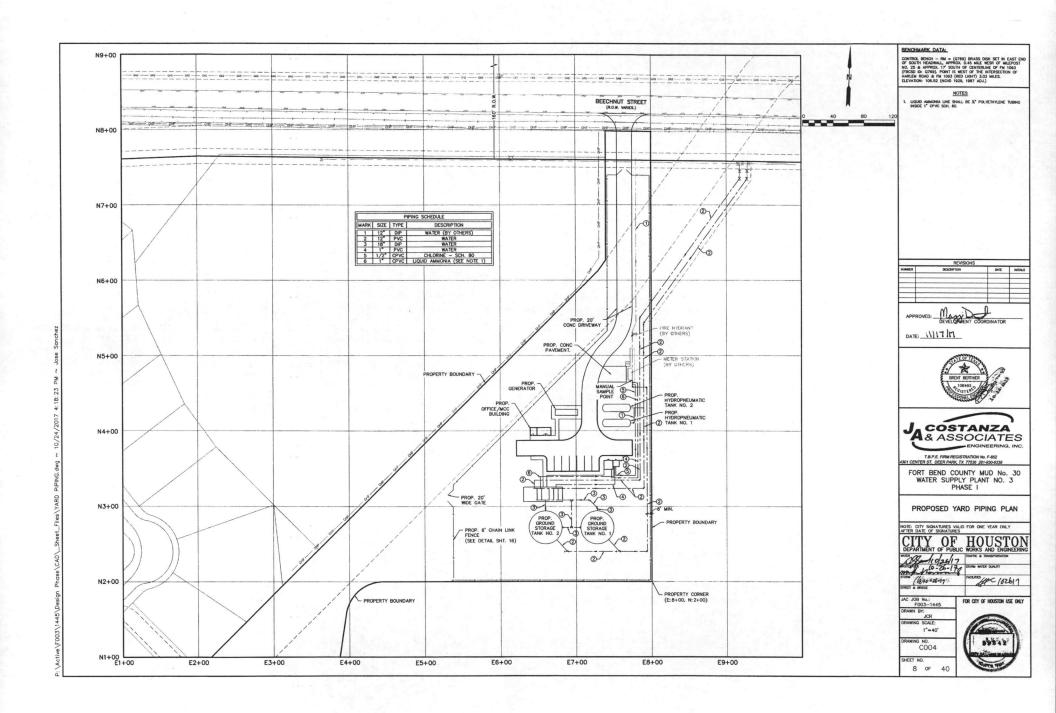
SHEET NO.

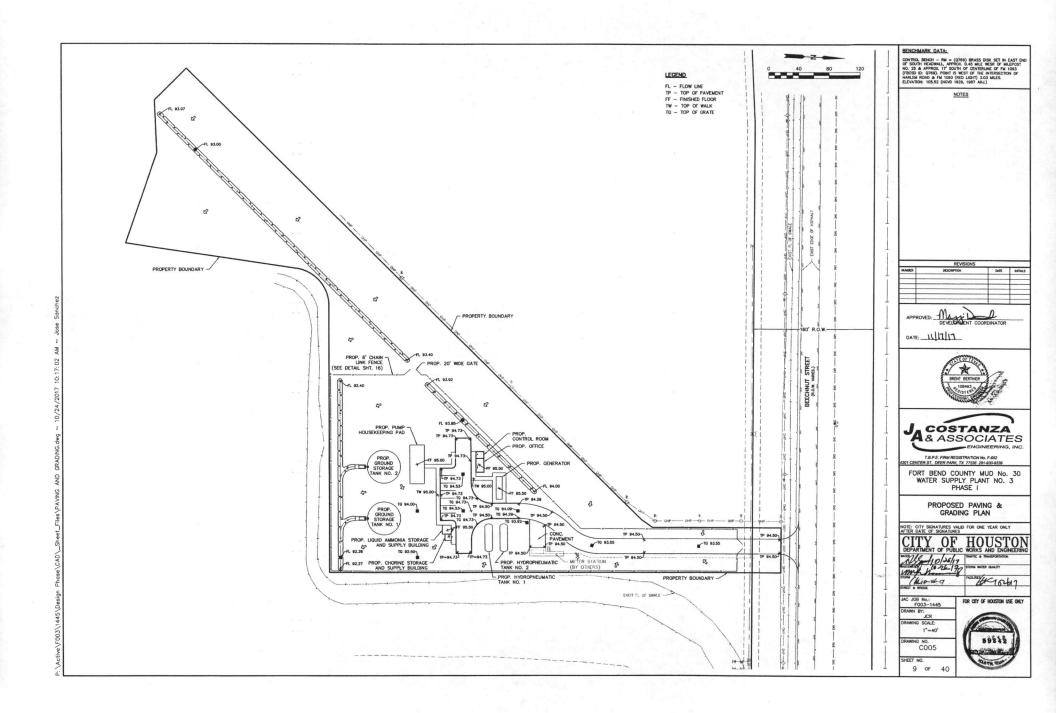
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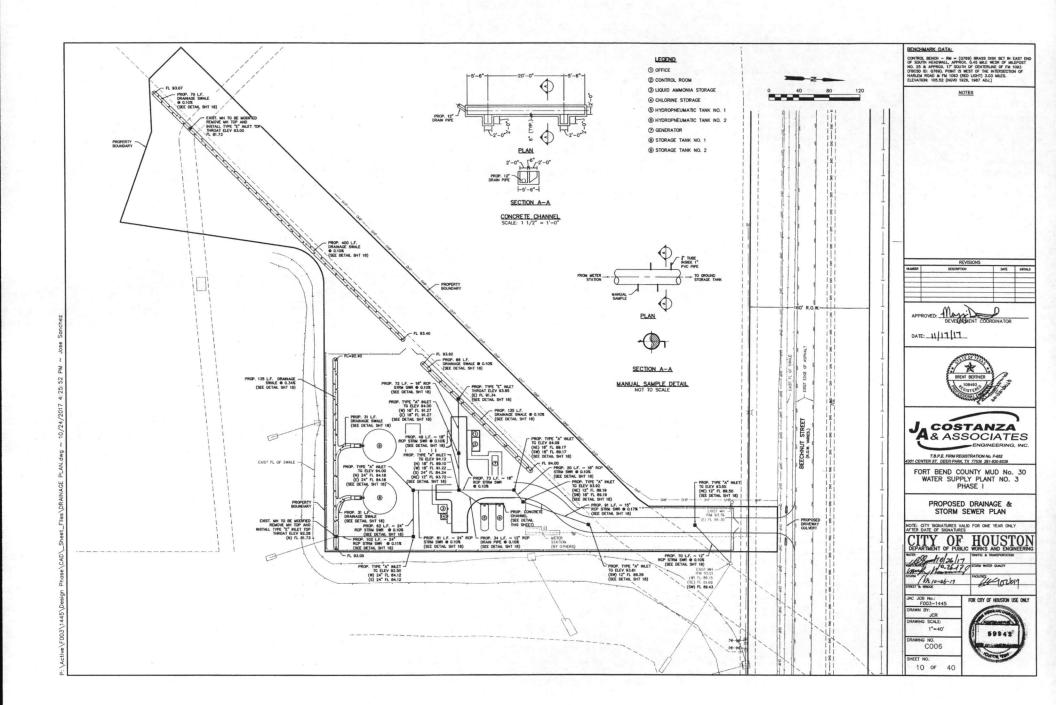


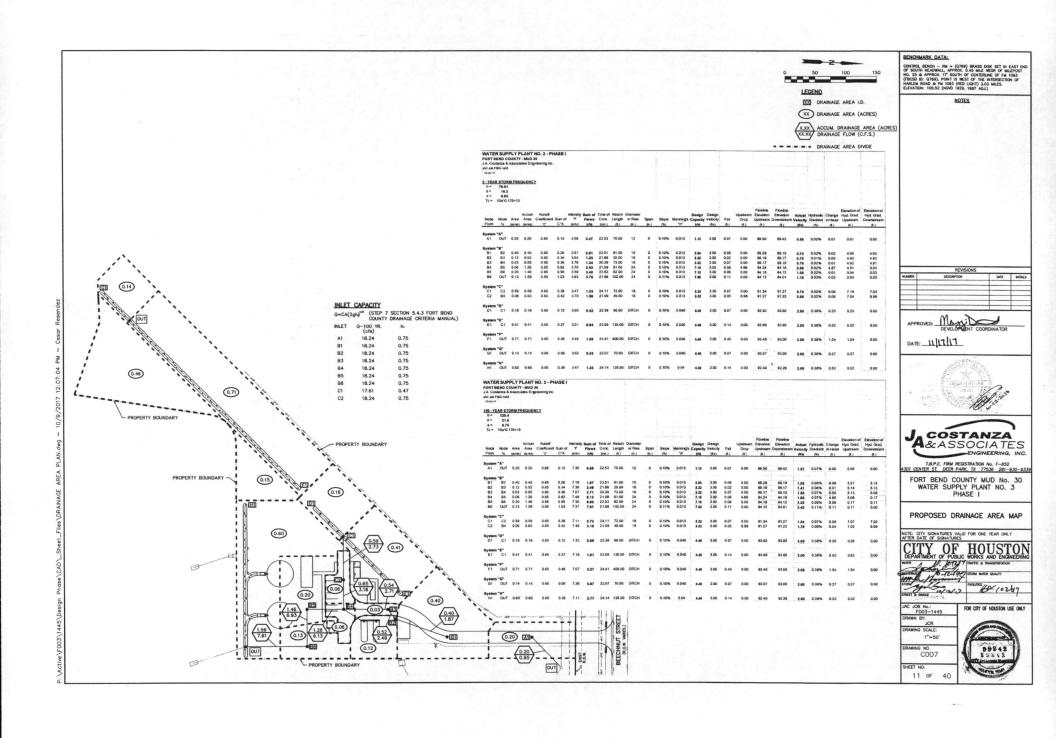


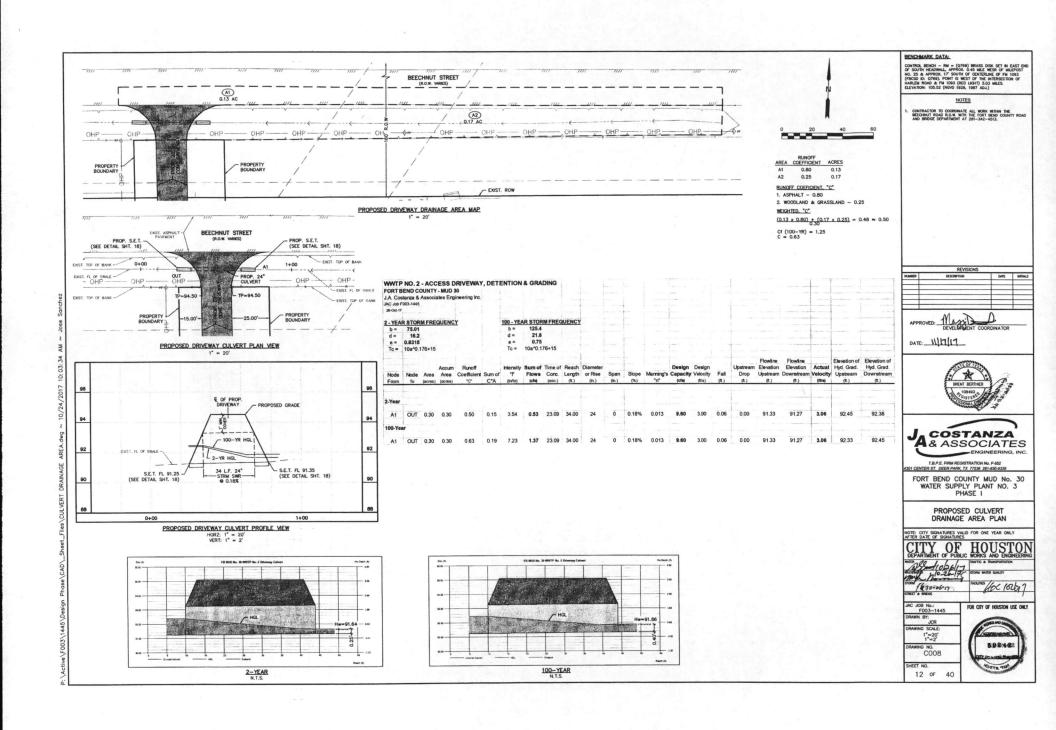


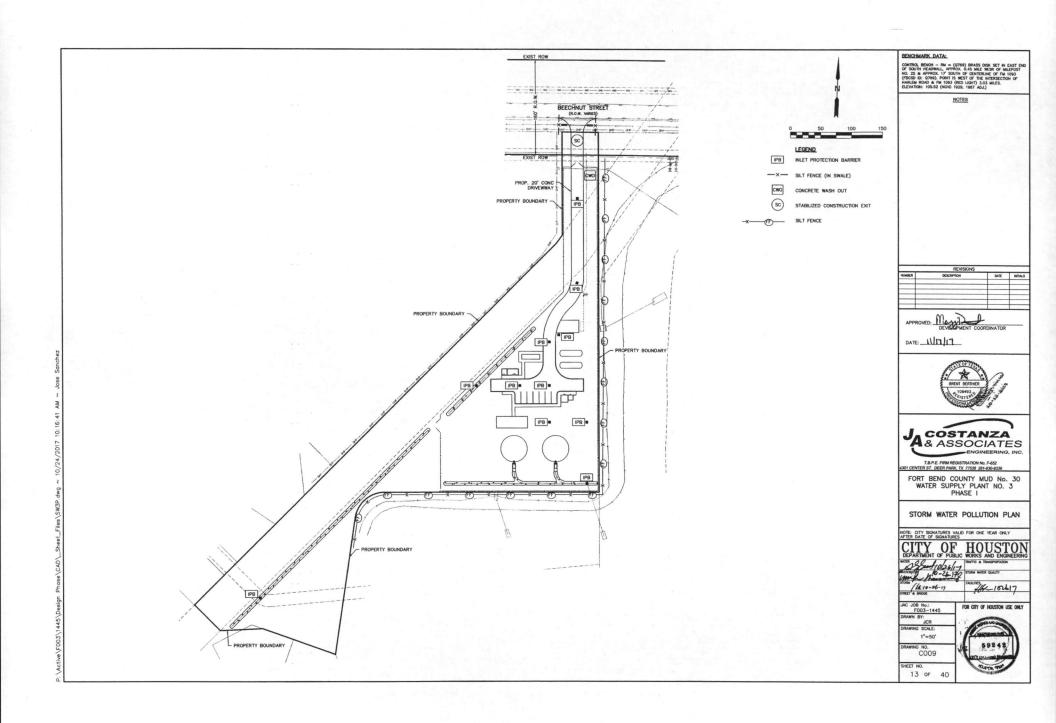












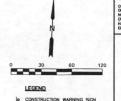


- CONTRACTOR SHALL PROVIDE AND INSTALL TRAFFIC CONTROL DEVICES IN CONFORMANCE
 WITH PART VI OF TEXAS MANUAL ON UNFORM TRAFFIC CONTROL DEVICES (TMUTCD-LATEST EDITION WITH REVISIONS) DURING CONSTRUCTION.
- 2. NO LANES SHALL BE BLOCKED FROM 7 A.M. TO 9 A.M. AND 4 P.M. TO 6:30 P.M. MONDAY THRU FRIDAY.
- 3. OFF DUTY POLICE OFFICERS/FLAGGERS ARE REQUIRED TO DIRECT TRAFFIC WHEN LANES ARE BLOCKED.
- CONTRACTOR SHALL COVER THE EXCAVATION WITH STEEL PLATES ANCHORED PROPERLY DURING NON-WORKING HOURS AND ALLOW NORMAL TRAFFIC FLOW IF COVERING IS NOT FEASIBLE, USE TRANITEX FR 336 ETX. 36" DELINEATOR OR APPROVED EQUAL WITH SHEETING AND BASE EPOXED TO PAXIMENT ROLT DE EXCAVATION DURING NON-WORKING HOURS.
- 5. APPROVED COPES OF "BAFFIC CONTROL PLANS" SHALL BE AVAILABLE FOR RESPECTION AT ALL TIMES.

 IF THE CONTRIACTION CHOICES TO USE O EXPERIENT METHOD OF THATRY CONTROL, PLAN LORING THE CONSTRUCTION THAN WHAT IS CUITABLE CHARMANIS, CIJUS SHALL BE REPOSSIBLE TO DEPOSE AND SHALL TELEVISION OF HOPIO OR APPROVAL TO "MEDIC PLANS" TO TRAFFIC SECTION OF HOPIO FOR APPROVAL TO "MEDIC PLANS SHALL BE ROOMS TO SCALE ON REPROQUEDIES WITLARS AND SEATED BY A LICENSED ENGINEER IN THE STATE OF TEXAS. PLANS WILL BE ECOLOGY A PART OF THE CONTRACT COMMISSION.
- 8. IF THE PROJECT IS WITHIN 400 FEET FROM O SIGNALIZED INTERSECTION, THE CONTRACTOR SHALL CONTACT HARRIS COUNTY PUBLIC INFRASTRUCTURE DEPARTMENT, SIGNAL DIVISION, AT 713-881-3210 FIVE (5) WORKING DAYS PRIOR TO THE START OF CONSTRUCTION.

MISCELLANEOUS TRAFFIC CONTROL NOTES

- ALL ADVANCED WARRING SIGNS TO BE SET PRIOR TO START OF CONSTRUCTION ACTIVITIES AND TO REMAIN IN PLACE UNITE. ALL CONSTRUCTION
 ACTIVITIES AND TO REMAIN IN PROPERTY OF THE PROPERTY OF THE CONTRACTOR WILL COORDINATE WITH THE HARRIS COUNTY PUBLIC INFRASTRUCTURE
 DEPARTMENT ENGREENING OWNSION IN ESTRUSHING TRAFFIC ROUTES AND LOCATION OF SIGNS.
- 2. ALL FLAGGERS SHALL BE IN RADIO CONTACT WITH EACH OTHER AT ALL TIMES, AS REQUIRED.
- 3. ALL PAVEMENT MARKINGS COVERED BY OVERLAY SHALL BE REPLACED BEFORE OPENING TO TRAFFIC
- 4. ADVANCE SIGNING SHALL BE PLACED A MINIBUM OF TWO WEEKS IN ADVANCE TO INFORM OF POSSIBLE DELAY. CONTRACTOR SHALL NOTIFY THE HARRIS COUNTY ENGINEERING DEPARTMENT AT LEAST TWO MEEKS PRIOR TO CONSTRUCTION.
- 5. ALL PORTABLE SIGNING DRUMS AND CONES SHALL BE REMOVED AT THE END OF EACH DAY.
- 6. IF WORK ZONE IS NEEDED OVERNICHT ALL CONES OR TUBULAR MARKERS SHALL BE REPLACED WITH DRUMS W/ YP'S AND- TEMPORARY PAVEMENT MARKINGS SHALL BE IN PLACE FOR NICHTIME OPERATION AS DIRECTED BY THE ENGINEER.
- 7. ACCESS TO EXISTING BUSINESSES OR RESIDENCES SHALL BE MAINTAINED AT ALL TIMES.
- 8. TRAFFIC CONTROL SIGNS MAY BE ADJUSTED TO FIT FIELD CONDITIONS, WITH APPROVAL OF THE ENGINEER.
- 9. CONTRACTOR SHALL TREAT OVERNIGHT DROP-OFF CONDITIONS WITH A 3:1 OR FLATTER SLOPE WEDGE CAPABLE OF SUPPORTING VEHICLE LOADS.



. CHANNELIZING DEVICE



- → DIRECTION TRAFFIC FLOW
- F FLAGGER

CONTROL BENCH - RN = (0789) BRASS DISK SET IN EAST END
OF SOUTH HEADWALL, APPROX. 0.45 Male WESP OF MALPPOST
NO. 25 & APPROX. 17 SOUTH OF CENTERLINE OF FM. 1093
(FBCSD ID: 0769). FONT IS WEST OF THE INTERSECTION OF
HARLER ROAD & FM. 1033 (RED LIGHT). 3.03 Male.S.
ELEVATION: 10.52 (WHOT 1925, 1887 AU.).



APPROVED: Mayo

DATE: WITH





T.B.P.E. FIRM REGISTRATION No. F-652 301 CENTER ST. DEER PARK, TX 77536 281-930-9338

FORT BEND COUNTY MUD No. 30 WATER SUPPLY PLANT NO. 3 PHASE I

TRAFFIC CONTROL PLAN

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

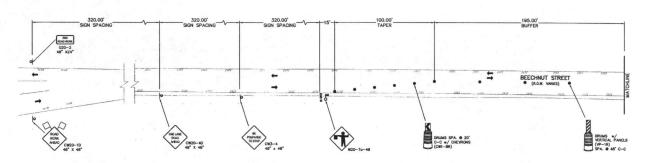
DEPARTMENT OF PUBLIC
WATER COTTE
WISTERNAUM 10-12-17
STORE /
STREET & BRIDGE

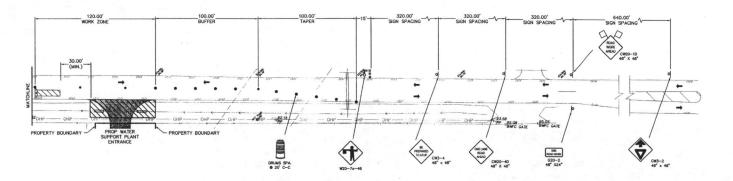
VILLULO STEAM MISOT FACUTIES (OLDI) FOR CITY OF HOUSTON USE ONLY

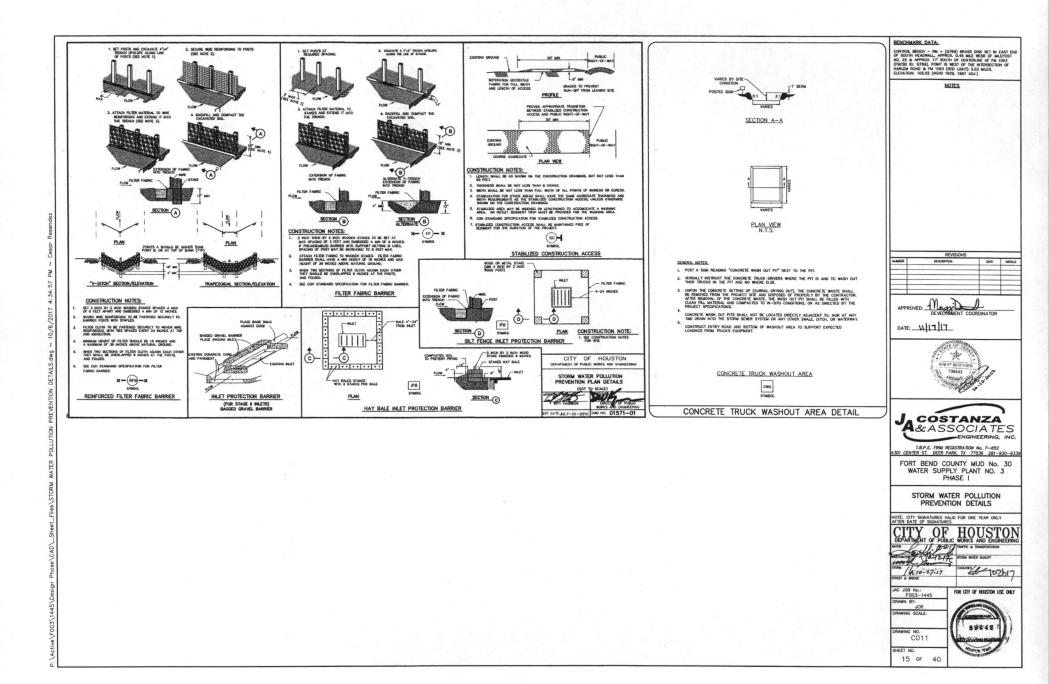
JAC JOB No.: F003-1445 DRAWN BY: 1"=30"

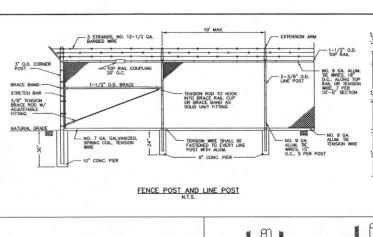
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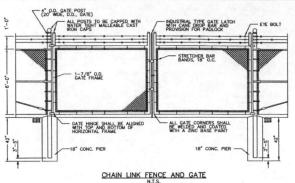
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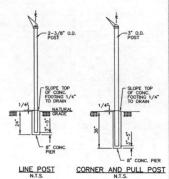






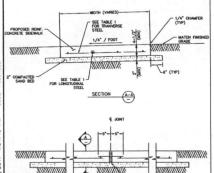






BENCHMARK DATA:

CONTROL BENCH — RN = (0789) BRASS DISK SET IN EAST ENG OF SOUTH HEADWALL, APPROX C 4.6 MEE WESS OF MELPOST NO. 25 & APPROX 17 SOUTH OF CONTRELINE OF PM 1093 (FBCSS DI: 0789). POWN IS WEST OF THE INTERSECTION OF HARLEM ROAD & FM 1093 (RED LIGHT) 3.03 MEES. ELEVATION: 105.52 (NOVO 1928, 1887 AQ.).



		L	ONGITUDINAL STE	EL.	
			TRANVERSE		
SIDEWALK THICKNESS (IN)	SIDEWALK WIDTH (FT)	NUMBER OF BARS	SPACING (IN)	END BAR SPACING (IN)	# 3 BARS SPACING (IN)
4.5	3	3	15	3	48
4.5	5	3	27	3	48
4.5		4	22	3	48

- 1. CONTRACTOR SHALL CONSTRUCT 3'-0" SIDEWALK UNLESS OTHERWISE SHOWN ON THE DRAW
- CONTRACTOR SHALL OWNSHOCK 3"-0" SECRETAL VIELDS UTBERTING STORM OF HIS CONTRIBUTE.
 SLOPE SOCIEMALS ANY FROM PAGS OR STRUCTURES WHEN ADJACENT TO EACH OTHER. OTHER—MSE, SLOPE SOCIEMAL 1/4" PER FOOT IN DRECTION OF GENERAL SITE AREA DRAMAGE.
 SISTALL 1" EDPARSION BOARD W/ SEALANT BETWEEN PAGS, STRUCTURES, OR SIDEWALKS WHEN ADJACENT TO EACH OTHER.
- ADJACENT TO EACH OTHER.

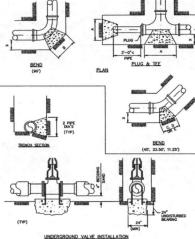
 A. INSTALL EXPANSION JOINTS AT 15"-0" O.C. MAX. USE REDWOOD BOARD EXPANSION JOINT

 W/ 6 SHOOTH BAR W/ LOAD REY (10" LONG).

 C. CONTROL, JOINT SPACING NOT TO EXCEED 4"-0". SCORED, TOOLED OR SAWN JOINTS SHALL

 BE 1/4" THE PARAMENT THICKNESS BUT NOT LESS THAN 1".

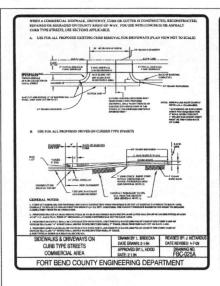
CONCRETE SIDEWALK C10A



PIPE SIZE	DIM.	"X" "A" "B" "C" DM. PLUG & TEE 90'9END 45'9END		*C* 45'BEND	"D" 22.5'BEND	"E" 11.25'BENG	
4.	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	
6*	1'-6"	1'-0"	1'-2"	1'-0"	1'-0"	1'-0"	
8"	1'-6"	1,-3,	1'-6"	1'-3"	1'-0"	1'-0"	
10"	1'-6"	1'-3"	2'-0"	1'-6"	1'-3"	1'-0"	
12"	1'-6"	2'-0"	2'-3"	1'-9"	1'-3"	1'-0"	
14"	2'-0"	2'-4"	3'-0"	2'-0"	1'-6"	1'-2"	
16*	2'-0"	2'-7"	3'-0"	2'-3"	1'-8"	1'-2"	
18"	2'-0"	2'-11"	3'-5"	2'-6"	1'-10"	1'-5"	
20"	2'-0"	3'-3"	2,-8,	2'-9"	2'-0"	1'-7"	
24"	2'-6"	3'-8"	4'-3"	3'-2"	2'-6"	1'-10"	

SECTIONS

1. HEIGTHS OF ALL BLOCKS SHALL BE EQUAL TO "A", "B", "C", "D", OR "E" DIMENSION CALLED FOR





- MAINTAIN CUTTER LINE WITH FACE OF EXISTING CURB.
- PROPOSED DRIVEWAY REINFORCING STEEL IS TO BE TIED TO EXISTING ROADWAY REINFORCING STEEL WITH A MINIMUM LAP OF 12 INCHES.
- PROPOSED DRINEWAY, CURB, GUTTER LINE, AND GRADE SHALL MATCH EXISTING STREET.
- PROPOSED SIDEWALK SHALL BE CONSTRUCTED WITH PORTLAND CEMENT CONCRETE, CLASS "A" STRUCTURAL (REFER TO SPECIFICATION 0.3301).
 HICHES THICK AND 4 FEET INHINIM WIDTH. SEE PRAYING

NO. FBC 24A FOR ADDITIONAL INFORMATION AND DETAILS.					
CONSTRUCTION NOTES FOR	DRAWN BY: L. BRDECKA	REVISED BY: L. BRDECKA			
SIDEWALKS & DRIVEWAYS WITH	DATE DRAWN: 2-1-94	DATE REVISED: 3-10-05			
CURB TYPE STREETS	APPROVED BY: L. HOOD	DRAWING NO.			
COMMERCIAL AREA	DATE: 2-1-94	FBC-025B			
FORT BEND COUNTY EN	GINEERING DE				



DATE: 11/17/17





T.B.P.E. FIRM REGISTRATION No. F-652 301 CENTER ST. DEER PARK, TX 77536 281-930-93 FORT BEND COUNTY MUD No. 30 WATER SUPPLY PLANT NO. 3 PHASE I

CIVIL DETAILS (1 OF 3)

NOTE: CITY SIGNATURES VALID FOR ONE YEAR ONLY /H/ 102617 1/4 10 = 26-17

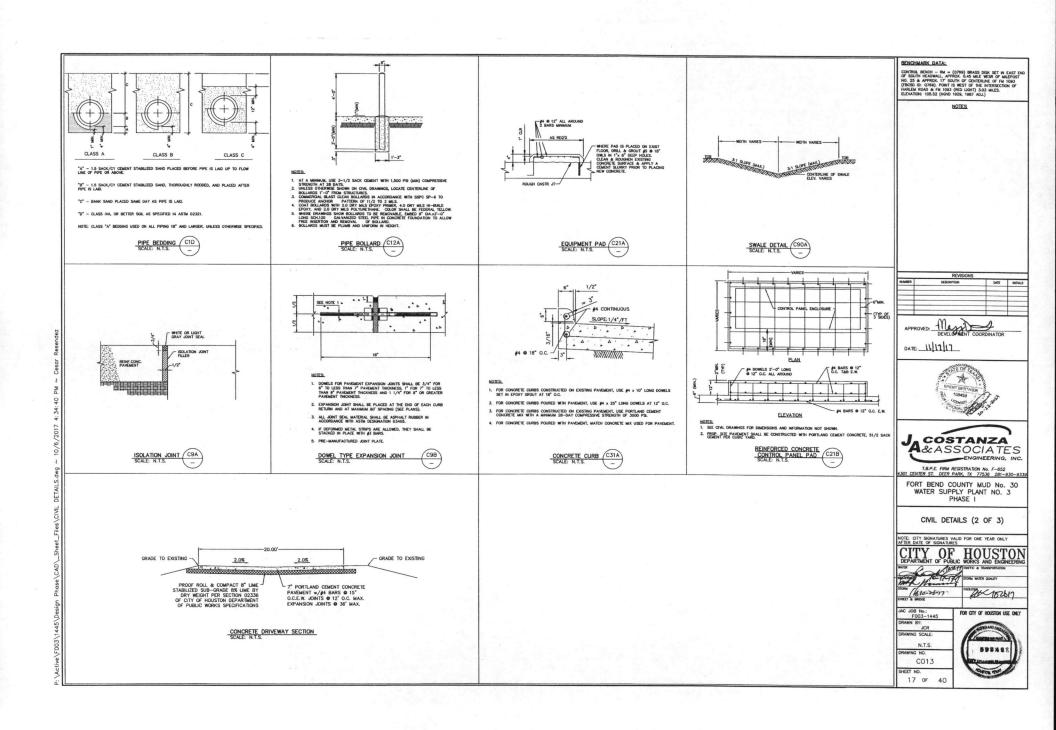
JCR NG SCALE N.T.S. C012

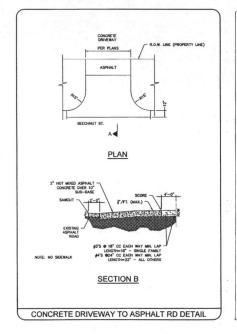
16 OF



FOR CITY OF HOUSTON USE ONLY

2. ALL CONCRETE TO BE POURED AGAINST FIRM UNDISTURBED SOIL. BURIED THRUST BLOCKS C20A





SPECIFICATIONS

CONCRETE: Case 1 concrete with of design strength of 4000 PSI of 28 days. Used is of monotonic constitutions of floor and Fort steps of each stage of each stage of each stage of the stage of each stage of each

or must be sent to confirm to ASTM ABTS on regulard centers or equal.

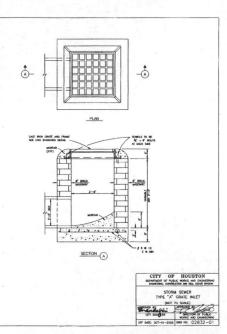
Cast ros frames and grates are manufactured of grey cost from conforming to ASTM A48-76 Casts.

OPENINGS OPTIONAL ALL ALL FOUR SIDES. (VERTICAL REBAR GRATE

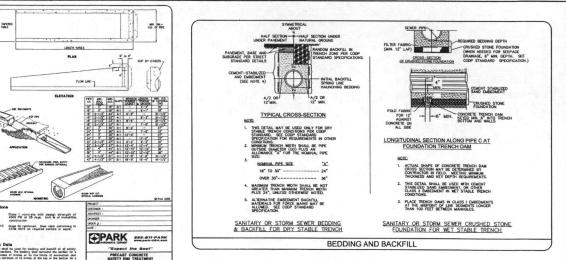
PARK 888-011-PARK

COHE3I-2

WINL O.D. AT TAPERED EMD-SEE TABLE



SET-3





DATE: 111717





FORT BEND COUNTY MUD No. 30 WATER SUPPLY PLANT NO. 3 PHASE I

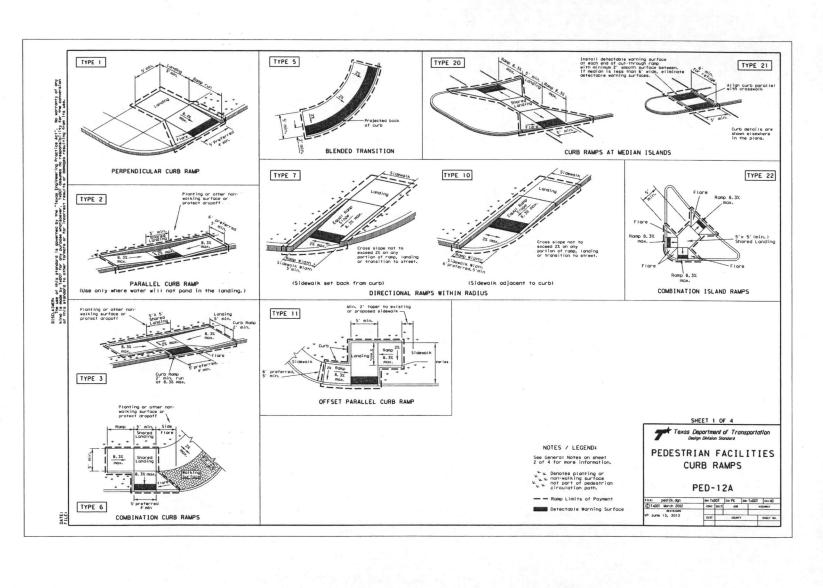
CIVIL DETAILS (3 OF 3)

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

JEK 101617 M10-26-17

NTS C014





BENCHMARK DATA:

CONTROL BENCH - RM = (0780) BRASS DISK SET IN EAST BY DOFF SOUTH HEADWALL APPROX. 0.45 MILE WEST OF MELPOYS NO. 25 & APPROX. 17 SOUTH OF CENTERLINE OF THE 1093 FRESSD ID: G7999, POINT IS WEST OF THE INTERSECTION OF HARLEN ROAD & FM 1003 (RED LIGHT) 3.03 MILES. BEVATION: 105.52 (NeWO 1922, 1887 ADJ.)

NOTES

	REVISIONS		
NUMBER	DESCRIPTION	DATE	INTIALS
APPRO	OVED: MANUELO DE VELOPACENT	COORDINATOR	_
DATE:	בורווו		





T.B.P.E. FIRM REGISTRATION No. F-652 DI CENTER ST. DEER PARK, TX 77536 281-930-933

FORT BEND COUNTY MUD No. 30 WATER SUPPLY PLANT NO. 3 PHASE I

TXDOT PED-12A (1 OF 4)

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

CITY OF HOUSTON
DEPARTMENT OF PUBLIC WORKS AND ENGINEERING
THE STATE OF THE STATE O

JAC JOB No.;
F003-1445
DRAWN BY:
JCR
DRAWING SCALE:
NTS

CO15
SHEET NO.
19 OF 40

55322

FOR CITY OF HOUSTON USE ONLY

58

20

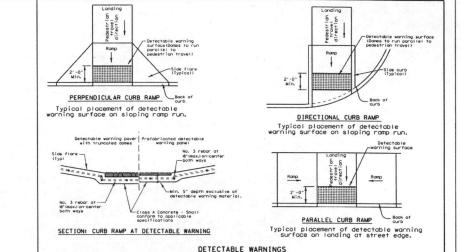
General Notes

Curb Romps

- 1. Install a curb ramp or blended transition at each pedestrian street crossing.
- All slopes shown are maximum allowable. Lesser slopes that will still drain properly should be used. Adjust curb ramp length or grade of approach sidewalks as directed.
- The minimum sidework width is 5°. Share the sidework is adjocent to the book of curb,
 or 6° sidework width is desirable. Share or 5° sidework comprete provided due to site
 constraints, sidework width any be reduced to 4° for short distances,
 5° x 5° possing areas or intervals not to exceed 20° or erequired.
- 4. Landings shall be 5'x 5' minimum with a maximum 2% slope in any direction.
- Moneuvering space at the bottom of curb ramps shall be a minimum of 4'x 4' wholly
 contained within the crosswalk and wholly outside the parallel vehicular travel path.
- 6. Maximum allowable cross slope on sidewalk and curb ramp surfaces is 2%.
- 7. Provide flored sides where the padestrion circulation poth crosses the curb rapp. Flored sides shall be sloped at 10% and/man, reasonated parallel for the curb. Returned curbs may be used only where padestrians would not normally wolk across the ramp, either because the adoptioned surface is planted, substantially dostructed, or
- Additional information on curb ramp location, design, light reflective value and texture may be found in the current edition of the Texas Accessibility Standards (TAS) and 16 TAC 68, 102.
- To serve as a pedestrion refuge area, the median should be a minimum of 6' wide, measured from back of curbs. Medians should be designed to provide accessible passage over or through them.
- Small channelization islands, which do not provide a minimum 5'x 5' londing at the top
 of curb ramps, shall be cut through level with the surface of the street.
- Crosswolk dimensions, crosswolk markings and stop bar locations shall be as shown elsewhere in the plans. At intersections where crosswolk markings are not required, curb ramps shall align with theoretical crosswolks unless otherwise directly.
- Handrails are not required on curb ramps. Provide curb ramps wherever on accessible route crosses (penetrates) a curb.
- 13. Curb ramps and landings shall be constructed and paid for in accordance with Item 531
- Place concrete at a minimum depth of 5" for ramps, flores and landings, unless otherwise directed.
- 15. Provide a smooth transition where the curb ramps connect to the street.
- 16. Curbs shown on sheet I within the limits of payment are considered part of the curb ramp for payment, whether it is concrete curb, gutter, or combined curb and gutter.
- 17. Existing features that comply with TAS may remain in place unless otherwise shown on

Detectable Warning Material

- 18. Curb rates must contain a detectable warning surface that consists of roised truncated dates complying with Section 705 of the 185. The surface must contrast visually with adjoining surfaces, including side flores. Furnish and instati on approved cast-in-place dark brown or dark red detectable warning surface material adjocent to uncolored concrete, unless specified elsewhere in the plans.
- Detectable Warning Materials must meet TxDOT Departmental Materials Specification DMS 4350 and be listed on the Material Producer List. Install products in accordance with manufacturer's specifications.
- 20. Detectable warning surfaces must be slip resistant and not allow water to accumulate
- Detectable worning surfaces shall be a minimum of 24" in depth in the direction of
 pedestrian travel, and extend the full width of the curb ramp or landing where the
 pedestrian access rante enters the street.
- 22. Detectable warning surfaces shall be located so that the edge nearest the curb line is at the back of curb. Align the rows of domes to be perpendicular to the grade break between the ramp run and the street. Detectable warning surfaces may be curved along the corner radius.
- Shaded areas on Sheet 1 of 4 indicate the approximate location for the detectable warning surface for each ourb ramp type.



Detectable Warning Pavers

- Furnish detectable warning pover units meeting all requirements of ASTM C-936, C-33.
 Lay in a two by two unit basket weave pattern or as directed.
- Lay full-size units first followed by closure units consisting of at least 25 percent of a full unit. Cut detectable warning power units using a power saw.

- Provide clear ground space at operable parts, including pedestrian push buttons.
 Operable parts shall be placed within one or more reach ranges specified in TAS 308.
- Place traffic signal or illumination poles, ground boxes, controller boxes, signs, drainage facilities and other items so as not to obstruct the pedestrian access route or clear ground space.
- 28. Street grades and cross slopes shall be as shown elsewhere in the plans.
- 29. Changes in level greater than 1/4 inch are not permitted.
- 30. The least possible grode should be used to maximize accessibility. The running slope of slowedths and crosswolks within the bublic right of way any follow the grode of honordils may be desirable to limprove accessibility. Annordils may also be needed to protect pedestrians from potentially hazardous conditions. If provided, handralis shall comolly with 145 Sol.
- Handrail extensions shall not protrude into the usable landing area or into intersecting pedestrian routes.
- 32. Driveways and turnauts shall be constructed and paid for in accordance with litem "Intersections, Driveways and Turnauts". Sidewalks shall be constructed and paid for in accordance with Item, "Sidewalks".
- 33. Sidewalk details are shown elsewhere in the plans.

Texas Department of Transportation PEDESTRIAN FACILITIES CURB RAMPS PED-12A

DESTRUCT CALPE DESTRUCT CALHO DIST COUNTY

SHEET 2 OF 4

(410-26-17 MX 102617 JAC JOB No FOR CITY OF HOUSTON USE ONLY F003-1445 NTS

C016

BENCHMARK DATA:

CONTROL BENCH — RM = (0769) BRASS DISK SET IN EAST EN OF SOUTH HEADWALL, APPROX. 0.45 Male WESR OF MILEPOST NO. 25 & APPROX. 17 SOUTH OF CENTERLINE OF FM 1003 (FBCSS B: 0798). FORM IS WEST OF THE INTERSECTION OF HARLEM ROAD & FM 1093 (RED LIGHT) J.03 MILES. LEVATION: 105.52 (NOVO 1925, 1867 ADJ.)

APPROVED: MAY COORDINATOR

A&ASSOCIATES

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

FORT BEND COUNTY MUD No. 30 WATER SUPPLY PLANT NO. 3

PHASE I

TXDOT PED-12A (2 OF 4)

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

DATE: 111717

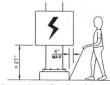
20 OF

59242



CAFE PROTECTED ZONE

TO PEDESTRIAN PUSH BUTTON



When on obstruction of a height greater than 27° from the surface would create a protrusion of more than 4° into the pedestrian circulation area, construct additional curb or foundation at the battom to provide a maximum 4° overhang.



Protruding objects of a height ≤ 27" are detectable by cane and do not require additional treatment.

DETECTION BARRIER FOR VERTICAL CLEARANCE < 80"

SHEET 3 OF 4

Texas Department of Transportation
Design Division Standard

PEDESTRIAN FACILITIES CURB RAMPS

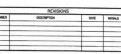
PED-12A

FILE: ped12A.dgn	Qen Txi	100	CLI PK	Own	TxDOT	CAL HO
© 1x001 March 2002	CONT	SECT	,00			0 Comma Y
VP June 13, 2012						
	DIST		COUN	IV	T	SHEET NO.
L.A. Landerson						

BENCHMARK DATA:

CONTROL BENCH - RM = (0769) BRASS DISK SET IN EAST EN OF SOUTH HEADWALL APPROX. 0.45 MAE WESR OF MAEPOST NO. 25 & APPROX. 17 SOUTH OF CENTERALE OF FM 1093 (FBCSD ID: 0789). POINT IS WEST OF THE INTERSECTION OF HARLEM ROAD & FM 1093 (RED LIGHT). 3.03 MALES. ELEVATION: 105.52 (NOVD 1023, 1987 AU.).

NOTES



DATE: 111717





T.B.P.E. FIRM REGISTRATION No. F-652 301 CENTER ST. DEER PARK, TX 77536 281-930-933 FORT BEND COUNTY MUD No. 30 WATER SUPPLY PLANT NO. 3 PHASE I

TXDOT PED-12A (3 OF 4)

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

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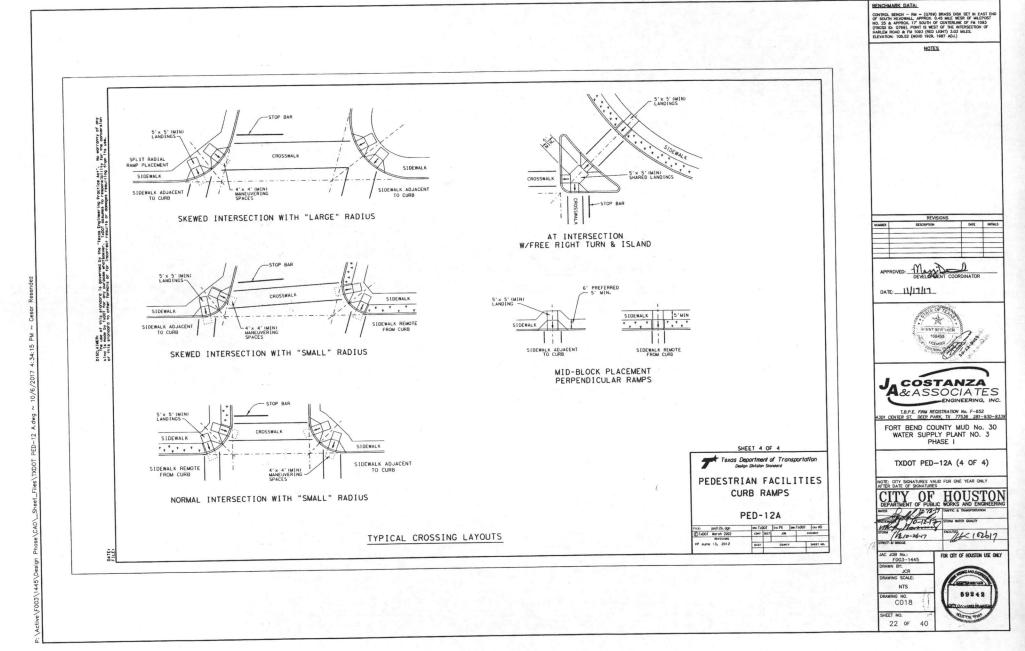
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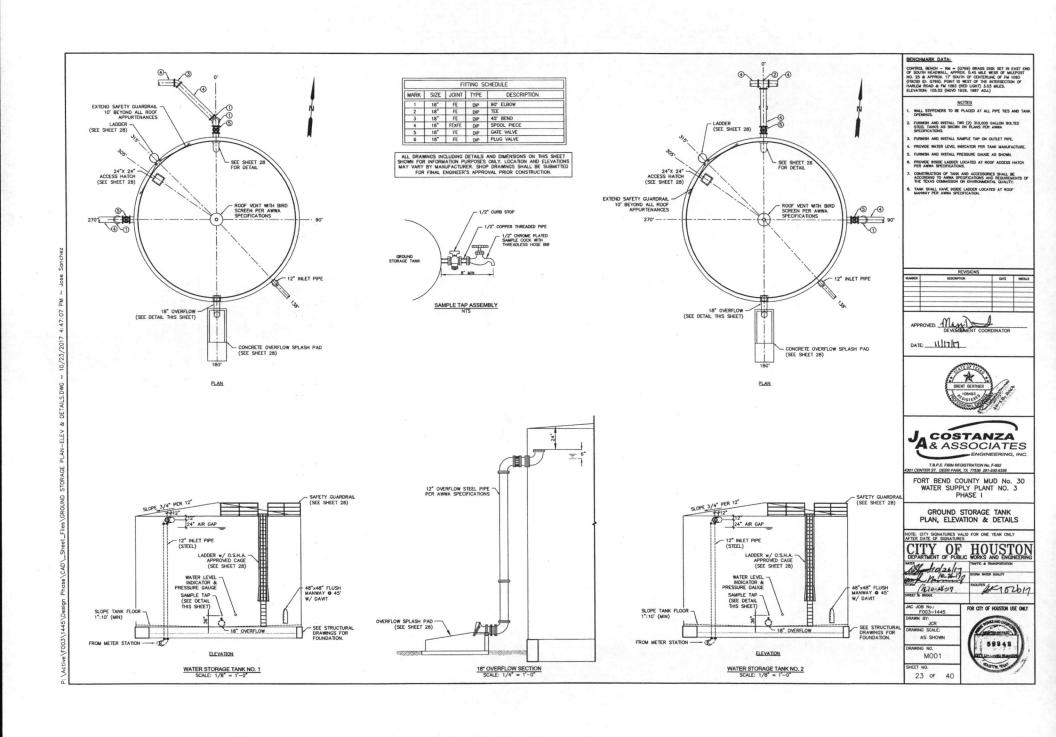
C017 SHEET NO. 21 OF 40

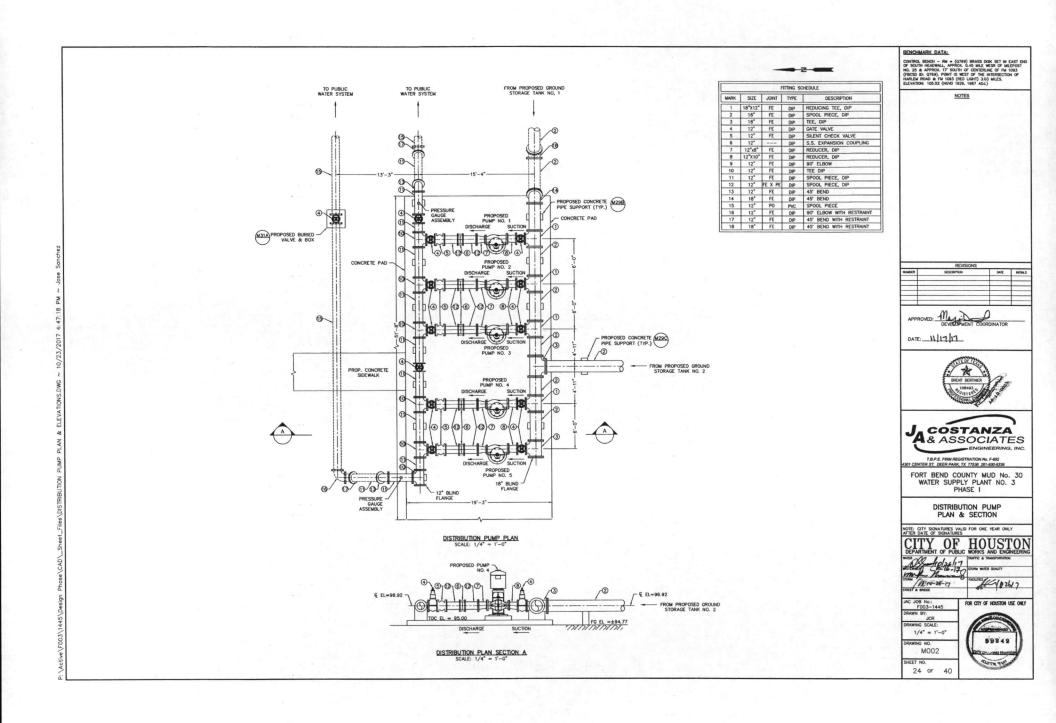
NTS

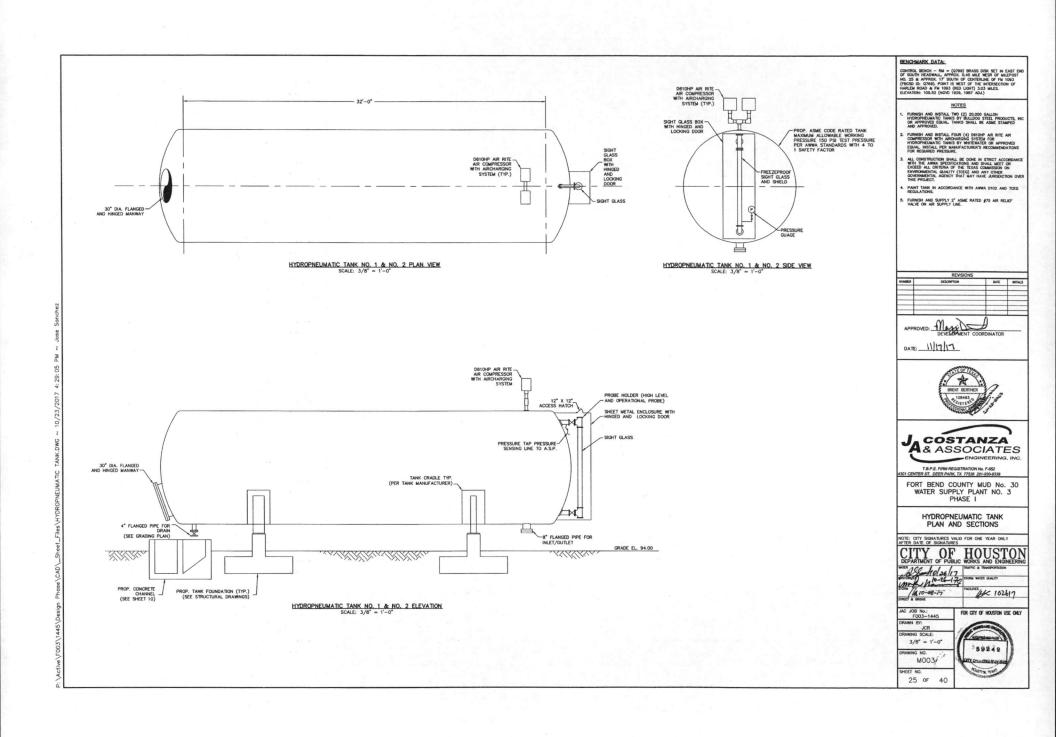


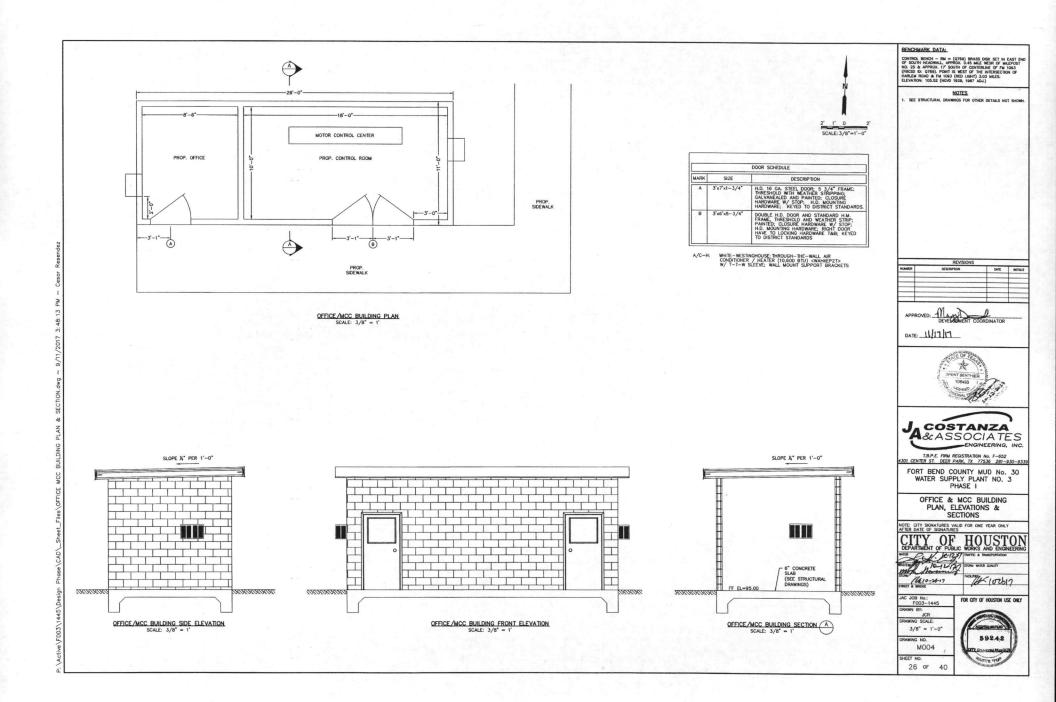
Concrete Driveway

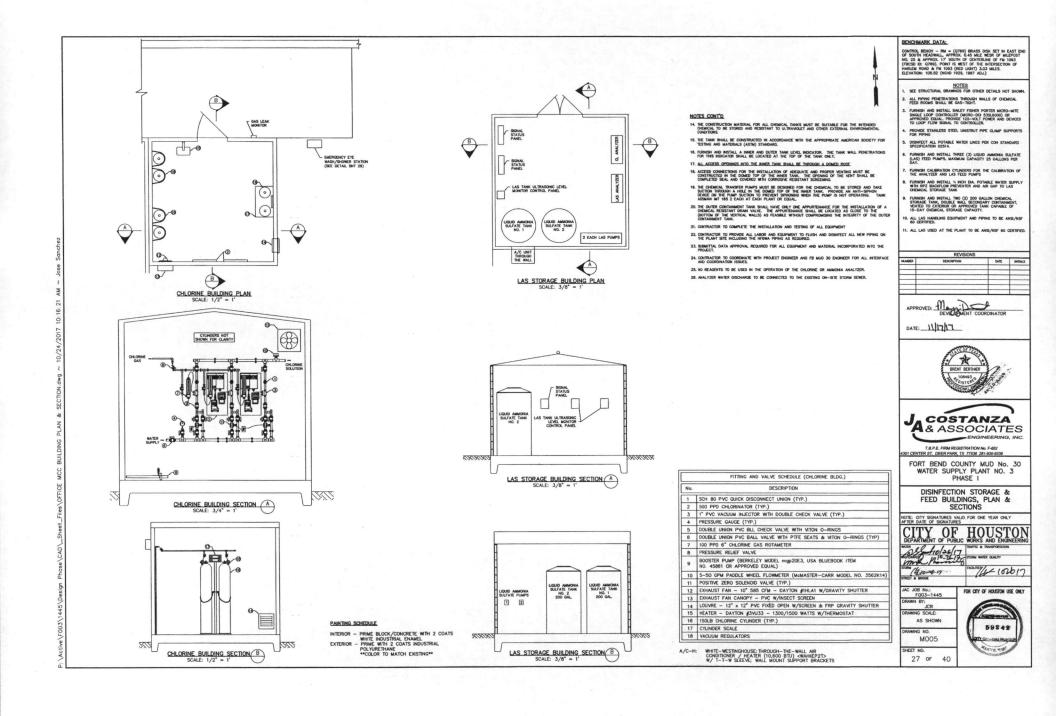


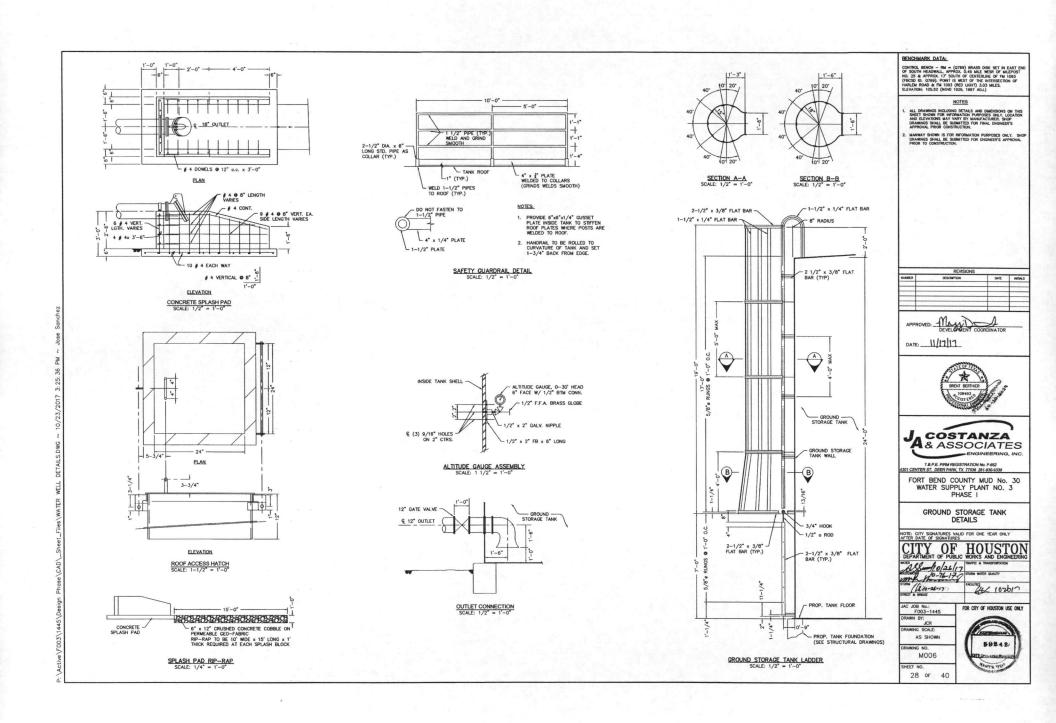


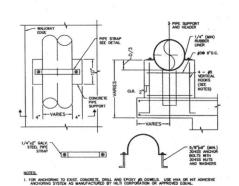




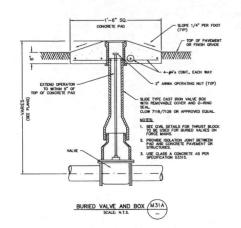


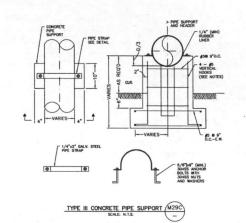






TYPE I CONCRETE PIPE SUPPORT M29A
SCALE: N.T.S.







NOTES





DATE: 11/17/17





T.B.P.E. FIRM REGISTRATION No. F-652 4301 CENTER ST. DEER PARK, TX 77536 281-930-9336

FORT BEND COUNTY MUD No. 30 WATER SUPPLY PLANT NO. 3 PHASE I

MECHANICAL DETAILS

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



TREET & BROOSE

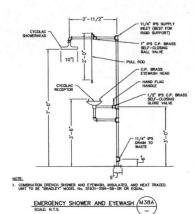
JH 102617

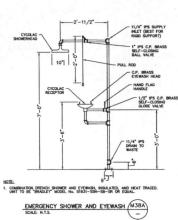
JAC JOB No.: F003-1445 DRAWN BY: FOR CITY OF HOUSTON USE ONLY

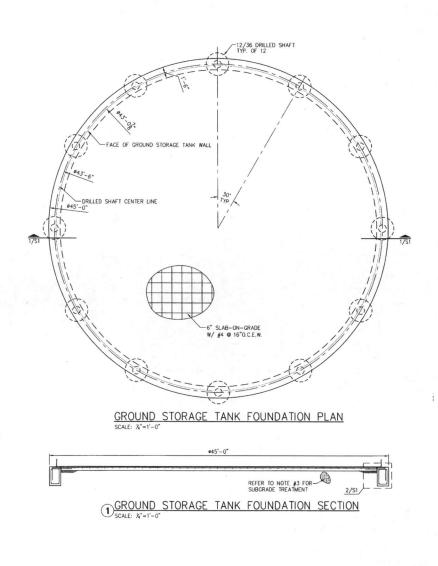
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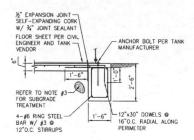
29 OF 40

AS SHOWN M007

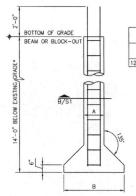








SECTION SCALE: 1/2" = 1'-0"



SEE FOOTING SCHEDULE B SECTION

SCALE: 1/2" = 1'-0"

FOOTING SCHEDULE

SHAFT BELL VERTICAL

DIAMETER (A) DIAMETER (B) REINF. TIES
1'-0" 3'-0" 4-#5 #3@12"

REINF.

*CONTRACTOR SHALL ADJUST THE DRILLED SHAFT LENGTH BASED ON EXISTING GRADE AND PROPOSED BUILDING FLOOR ELEVATIONS.

A DRILLED SHAFT DETAILS
SCALE: 1/2" = 1'-0"

BENCHMARK DATA:

- CONCRETE SHALL HAVE 3,000 PSI COMPRESSIVE STRENGTH AT 28 DAYS.
 REINFORCING STEEL SHALL CONFORM TO ASSTRUCTED TO A STRENGT OF THE STR
- 2. REINFORCING STEEL SHALL CONFORM TO ASTM A615, GRADE 60. 3. REMOVE 48 INCHES OF EXISTING SOIL AT BUILDING PAD AND REPLACE WITH SELECT FILL AND COMPACT. USE SELECT FILL IF REQUIRED FOR RAISE OF BUILDING PAD.
 REFER TO PROJECT SOIL REPORT FOR
- PROCEDURE.

 CONTRACTOR MUST SUBMIT GROUND
 STORAGE TANK SHOP DRAWINGS FOR REVIEW
 AND APPROVAL PRIOR TO FOUNDATION
 INSTALLATION.



DATE: 11/17/17



MISSION ENGINEERING INC. 10370 RICHMOND AVE, #560 HOUSTON, TEXAS 77042 ITI 713-981-0018 [E] dzhuang@missioneng.com TPEF Registration No. F-11771

FORT BEND COUNTY MUD No. 30 WATER SUPPLY PLANT NO. 3 PHASE I

GROUND STORAGE TANK PLAN AND SECTION

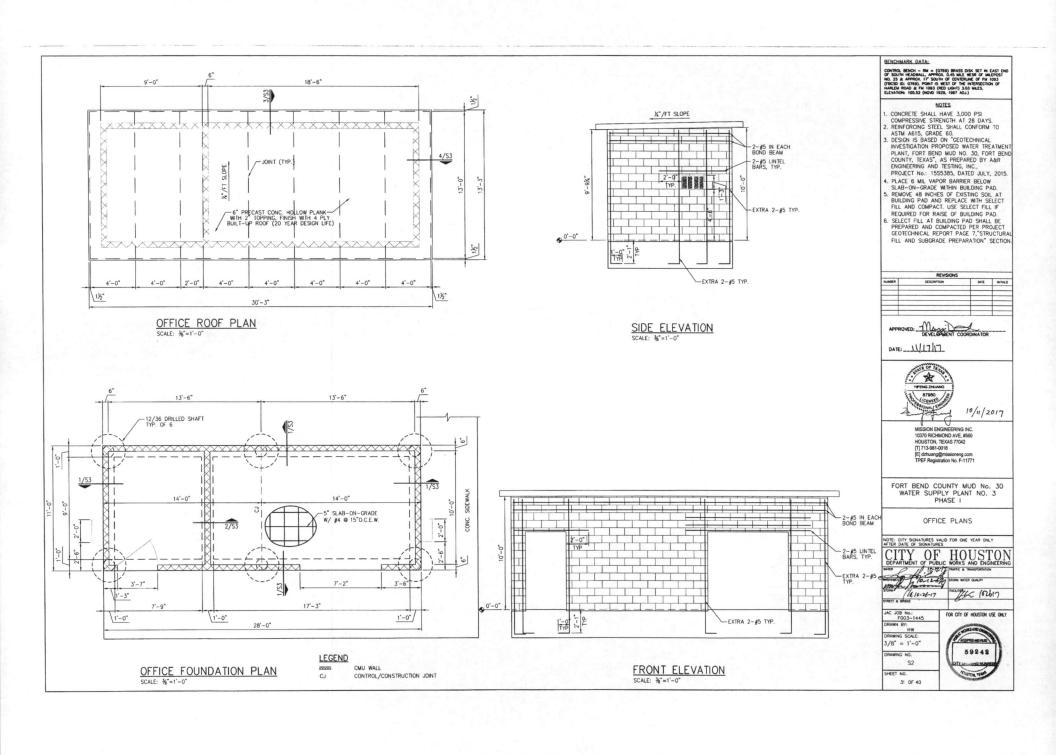
NOTE: CITY SIGNATURES VALID FOR ONE YEAR ONLY AFTER DATE OF SIGNATURES

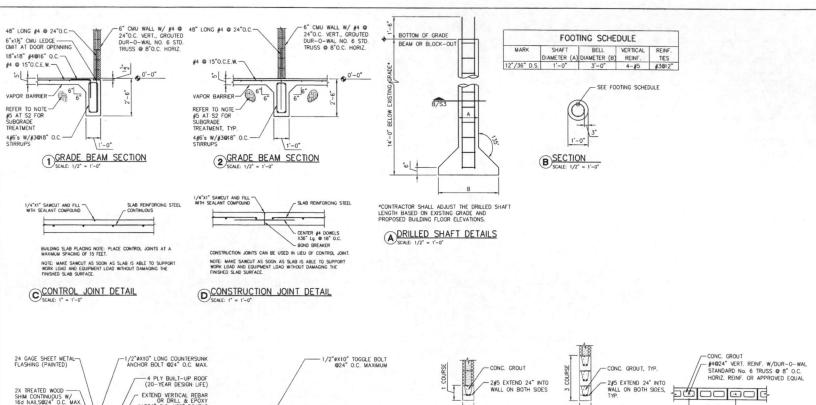
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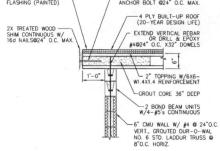
FOR CITY OF HOUSTON USE ONLY

JAC JOB No.: F003-1445 HW DRAWING SCALE: AS NOTED

59242 SI SHEET NO. 30 OF 40

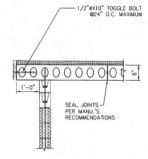






CONTRACTOR MAY SUBMIT ALTERNATE CONNECTING METHOD FOR APPROVAL AT CMU WALL AND PRECAST CONCRETE HOLLOW PLANK CONNECTION.

WALL SECTION
SCALE: 3/4" = 1'-0"



SEE SECTION 3 THIS SHEET FOR CALL-OUTS NOT SHOWN.

WALL SECTION
SCALE: 3/4" = 1'-0"



LINTEL DETAIL

OPENING LESS THAN 5'-0" WIDE

TYPICAL WALL REINFORCING

E 6" CMU WALL DETAILS

OPENING 5'-0" TO 9'-3" WIDE

BENCHMARK DATA:

CONTROL BENCH - RM = (0789) BRASS DISK SET IN EAST ENG OF SOUTH HEADWALL, APPROX. 0.45 Male MISS OF MALPOST NO. 25 & APPROX. 17 SOUTH OF CENTERING OF FM 1093 (FBCSD D: 0789). POINT IS MEST OF THE MITERSECTION OF HARBLEN ROAD & FM 1093 (MED LIGHT) X33 MALES. ELEVATION: 10352 (MONO 1925, 1867 AQ.).

NOTES

- REINFORCING STEEL SHALL CONFORM TO ASTM A615, GRADE 60.
- . PRECAST CONCRETE HOLLOW PLANK DESIGN LIVE LOAD SHALL BE 50 PSF.
- CONTRACTOR SHALL COORDINATE WITH CIVIL AND MECHANICAL DRAWNIGS FOR SIZES AND LOCATIONS OF DOORS AND LOUVERS.
- CONTRACTOR SHALL COORDINATE WITH ELECTRICAL DRAWINGS FOR LOCATIONS AND
- SIZES OF WALL MOUNTS FOR LOCATIONS AND SIZES OF WALL MOUNTED AC UNITS AND MASTER CONTROL CABINET PAD.

 2° TOPPING SLAB SHALL HAVE 3,000 PSI COMPRESSIVE STRENGTH AT 28 DAYS. THE MAXIMUM COARSE AGGREGATE SHALL BE
- WELD WIRE FABRIC REINFORCEMENT IN TOPPING SLAB SHALL CONFORM TO ASTM A183, USE 6x6-W1.4xW1.4 W.W.F.. CEMENT GROUT AT END OF PRECAST HOLLOW CORE PLANK SHALL HAVE 100 PSI
- COMPRESSIVE STRENGTH AT 7 DAYS. . CMU WALL SHALL HAVE A MIN. OF 1500 PSI COMPRESSURE STRENGTH AT 28 DAYS





10/11/2017

MISSION ENGINEERING INC. 10370 RICHMOND AVE #560 HOUSTON, TEXAS 77042 [E] dzhuang@missioneng.com TPEF Registration No. F-11771

FORT BEND COUNTY MUD No. 30 WATER SUPPLY PLANT NO. 3 PHASE I

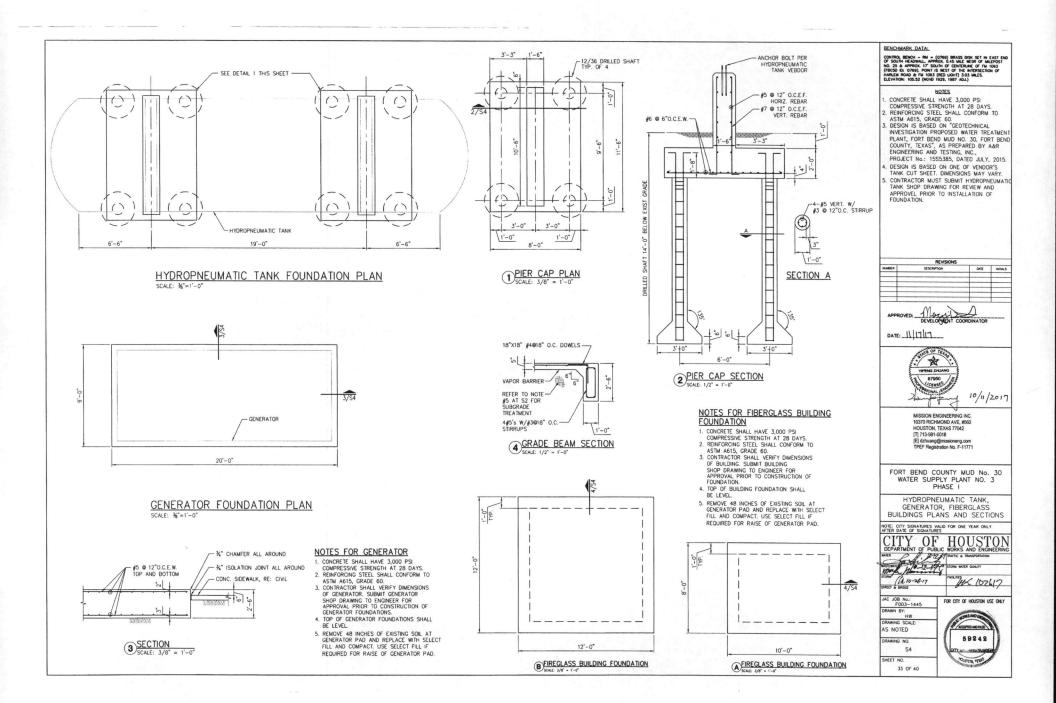
OFFICE SECTIONS

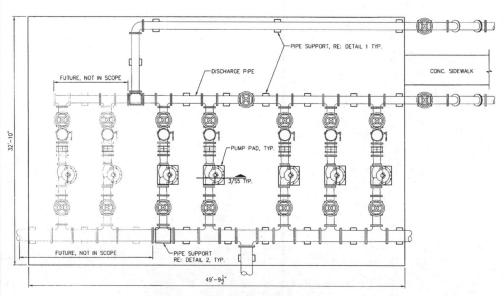
NOTE: CITY SIGNATURES VALID FOR ONE YEAR ONLY AFTER DATE OF SIGNATURES



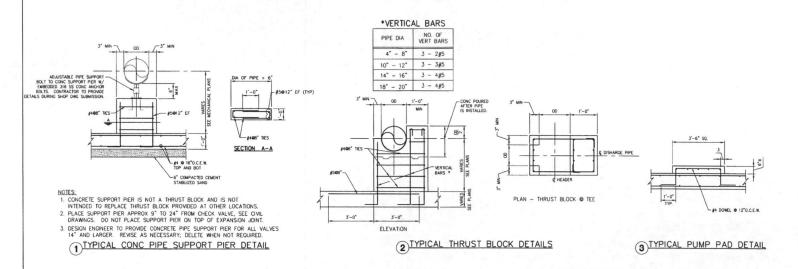
F003-1445 DRAWING SCALE AS NOTED

53 32 OF 40 59242





DISTRIBUTION PUMP FOUNDATION PLAN



BENCHMARK DATA:

CONTROL BRINCH - RM = (0789) BRASS DISK SET IN EAST DISK OF SOUTH HEADWALL, APPROX 0.45 Male MCSR OF Maltipost ON, 25 a APPROX 17 SOUTH OF CENTERAINE OF IN 1033 (FBCSD 00: 0789). FORM IS MCST OF THE INTERSECTION OF HARELM ROLD & FM 1035 (RED LIOHT) 3.03 Males. ELEVATION: 105.52 (MON 1926; 1887 ADJ.)

- CONCRETE SHALL HAVE 3,000 PSI COMPRESSIVE STRENGTH AT 28 DAYS.
 REINFORCING STEEL SHALL CONFORM TO ASTM A615, GRADE 60.
- REFER TO CIVIL AND MECHANICAL PLANS FOR PIPE SIZES AND ELEVATIONS.
 ALL STEEL PIPE SUPPORT ARE HOT DIP CALVANIZED.

- 4. ALL STEEL PIPE SUPPORT ARE 10.1 B.
 GALVANIZED.
 5. CEMENT STABILIZED SAND ARE 1.1 SACK
 CEMENT WITH 100 PSI AT 7 DAYS.

REVISIONS				
NUMBER	DESCRIPTION	DATE	INTALS	
-				
-				

APPROVED: MANY DEVELOPMENT COORDINATOR



MISSION ENGINEERING INC. 10370 RICHMOND AVE, #560 HOUSTON, TEXAS 77042 [T] 713-981-0018 [E] dzhuang@missioneng.com TPEF Registration No. F-11771

10/11/2017

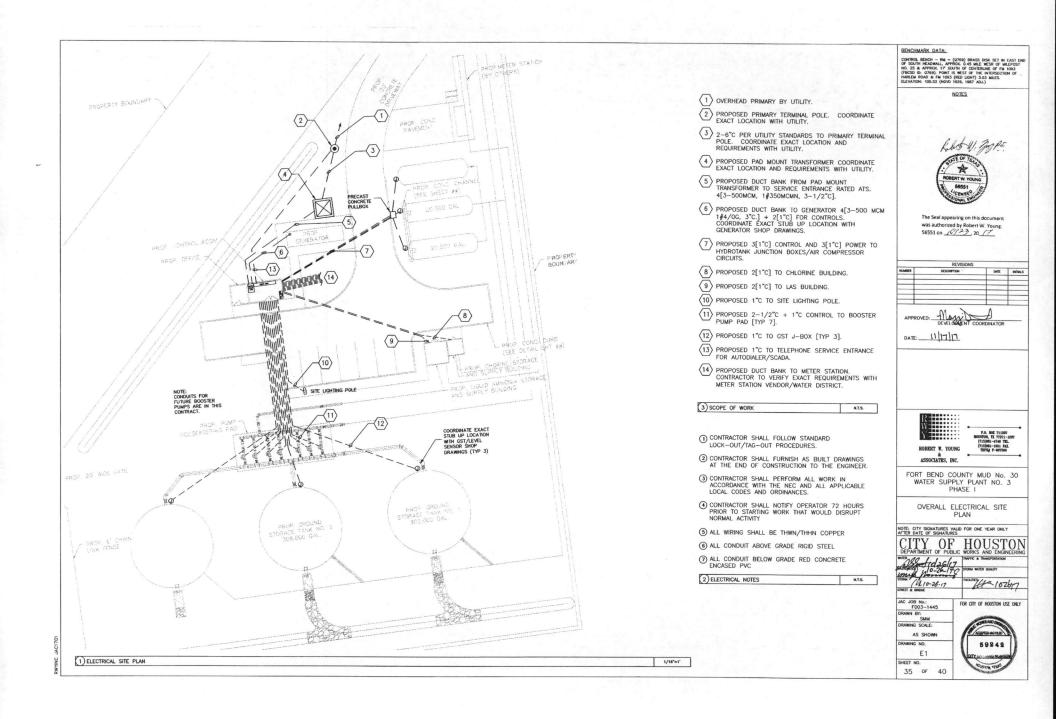
FORT BEND COUNTY MUD No. 30 WATER SUPPLY PLANT NO. 3

DISTRIBUTION PUMP FOUNDATOIN PLAN AND DETAILS



AS NOTED

S5 SHEET NO. 34 OF 40 59242



WATER SUPPLY PLANT- ULTIMATE LOAD A	1	I LK II	IAJL
LOAD DESCRIPTION	46	8∳	C#
BOOSTER PUMP 150 HP	180.00	180.00	180.00
BOOSTER PUMP 150 HP	180.00	180.00	180.00
BOOSTER PUMP 150 HP	180.00	180.00	180.00
BOOSTER PUMP 150 HP	180.00	180.00	180.00
BOOSTER PUMP 150 HP	180.00	180.00	180.00
FUTURE BOOSTER PUMP 150 HP	180.00	180.00	180.00
FUTURE BOOSTER PUMP 150 HP	180.00	180.00	180.00
CHLORINE BOOSTER PUMP 3@1HP	6.30	6.30	6.30
TRANSFORMER LOAD (25KVA RUNNING LOAD)	52.00		52.00
25% OF LARGEST MOTOR	45.00	45.00	45.00

USE 100% RATED 1600A 480v 3 PHASE 4 WIRE SERVICE

(2) LOAD ANALYSIS

PUN: INSTALL A NEW 1600A 480V 39 4W. SERVICE PER THE DRAWINGS, EXTEND NEW SERVICE INTO "NO OF ATS AS INDICATED. INSTALL SERVICE ENTRANCE AND METERING IN ACCORDANCE WITH CURRENT UTILITY STANDARDS.

RESTAL A NEW 1900 NEAR 1 CASSETED MOTOR CONTINC. CONTEX (SEASES, CE, ESTON OR SOURCE 1) COMPLETE ()
WITH COMMINISTRATES, WITH SOLD STATE ORDINOS, 1-2500 A MONO-150/2/AND FOR THEY
TRANSFORMER AND ONE RABA 1 42 CHC PIASE BANDA 55 BROCATED, PROVER MECHANICALLY ATTACHED NAME

(3)
PARTIS TOR ALL OUROPHORES, GROWN USBO A 4/40 DBMC COPPER GROWNER CONFIDENCE PER THE ORD ELLING.

3. INSTALL 1 1000KW 480V 3# 4W. KOHLER KD1000 (OR EQUAL CAT, STEWART AND STEVENSON, OR ONAN) DIESEL GENERATOR WITH KH05520T ALTERNATOR, 1600A UNIT MOUNTED BREAKER AND MATCHING 1600A 3 POLE AUTOMATIC TRANSFER SWITCH IN NEMA 1 ENALOSURE TO BE MOUNTED IN THE CONTROL ROOM.

NAMESTER SMITCH IN NEUM 1 TOLKOSUNET TO BE MOUNTED IN THE CONTROL ROOM.

NOODE INPA 110 COMPLIANT CORRESTORS WITH THE FOLKOWING OPTIONS.
PERMANENT MAGNET ALTERNATOR FOR SCOLATINAL STRETING PUMPS LISTED WITH A VOLTAGE LESS THANGESES
PERMANENT MAGNET ALTERNATOR FOR SCOLATINAL STRETING PUMPS LISTED WITH A VOLTAGE LESS THANGESES
PERMANENT MAGNET ALTERNATOR SOURCE WITH SCALATINAL STRETING PUMPS SOURCE LEVEL AT 7M
PROVINCE RENTERED SOURCE MAGNET TO DECED TYPEN SOURCE LEVEL AT 7M
BUTTLEY PROJECT HOLTERS OF MAGNETIC MAGNET THE PUMPS AND PUMPS AND PUMPS SOURCE LEVEL AT 7M
BUTTLEY PROJECT HOUSE SPEED FOR SHARE THE PUMPS AND PUMPS AND PUMPS SOURCE LEVEL AT 7M
BUTTLEY PROJECT HOUSE SPEED FOR SHARE PUMPS AND P

PROVIDE AUTOMATIC TRANSFER SWITCH WITH THE FOLLOWING FEATURES:

KOHLER KD1000

1000KW DIESEL STAND-BY GENERATOR

PILOT WHIT HOUSINGS

ANNI STREET HOUSE OF THE LOCKING CARNET

MANNAL SHITCH HOUSE OF THE LOCKING CARNET

M-PHASE MONTRO

AND MANNAL SHITCH HOUSE OF THE LOCKING CARNET

AND MANNAL SHITCH HOUSE

AND MANNAL SHITCH HOUSE

AND MANNAL SHITCH HOUSE

MANNAL SHITCH HOUS

(3) SCOPE OF WORK

TO CENTERPOINT ENERGY SERVICE ENTRANCE VIA PAD MOUNT XFMR
WITH METERING PER UTILITY STANDARDS

N.T.S.

10. PROGRAMMARIE THE DELAYS AND SETTING FOR VOLTAGE/FREQUENCY PICKLE/DROPOUT
11. NEAN 1 ENCLOSURE.
12. INSTAL A MICHAROLLY ATTACHED DIGRAND NAMEPLATE READING "AUTOMATIC TRANSFER SWITCH" ON THE FRONT OF THE DISCUSSIVE.

INSTALL 130K LIEBERT ACCUVAR SURGE PROTECTOR AS INDICATED.

MONAL TOS LIBERT ACCOUNT SHEEL PROTECTED & RECURITY.

MINO/SERSORY PAUL: CONTROL SHEED SHAUL PROVIDE AND RETAIL A NEW PLAP AND ALARM CONTROLLER SEPARATE ON THE MEN GORETTO MONOR CONTROL CONTROL CONTROL CONTROL POWER TRANSFORMERS SHALL BE SEED TO SHEET CONTROL FOR ANY AND ALARM CONTROLLER SHAUL BE SEED TO SHEET CONTROLLER SHAUL BE SEED TO SHEET CONTROLLER SHAUL BE SEED TO SHEET CONTROLLER SHAUL BE SHAUL BE SHAUL BE SHAUL BY SHAUL BE SHAUL BY SHAUL BY

(a) CONTRACTOR SHALL INSTALL BIGHT 70W EQUIVALENT LED WALL PACKS (WILLIAMS WP1 WITH PHOTO CELL CONTROLLED 30A CONTACTOR) AS SHOW IN THE SITE PLAN. EXTEND 2∯12, 1∯12 GROUND IN 3/4" INCH RIGID STEEL TO A NEW 20A SHOLLE POLE BREWER IN THE ENEW PANELBOAKE.

(3) INSTALL OUTLET, LIGHTS, AND MISCELLANEOUS, OUTLINED IN THE ATTACHED ENLARGED ELECTRICAL SITE PLAN.

ALL CONDUIT RIGID STEEL ABOVE GRADE AND RED CONCRETE ENCASED PVC BELOW GRADE (MINIMUM 3° COVER ALL SIDES)

(0) ALL WORK PER NEC AND LOCAL CODES AND ORDINANCES.

KOHLER 350REZXB

NOTE: PLANT IS IN THE ETJ OF THE CITY OF HOUSTON AND SHALL MEET ALL CITY OF HOUSTON WATER SUPPLY PLANT REQUIREMENTS

BROMES, INTERNAL ONS. DESIGNATION BY ALTERNATE AS SECURED.

WITH A STATE OF THE STA

KOHLER 350REZXB

350KW STAND-BY GENERATOR

N.T.S.

KOHLER 350REZXB

350KW STAND-BY GENERATOR

BENCHMARK DATA:

CONTROL BENCH — RN = (0789) BRASS DISK SET IN EAST DIO OF SOUTH HEADWALL, APPROX. 0.45 MILE WESR OF MILEPOST NO. 25 & APPROX. 17 SOUTH OF CENTERINE OF PA 1093 (PBCSO ID: 0789). POINT IS WEST OF THE INTERSECTION OF HARELE ROAD & FM 1093 (RED LIGHT) 3.03 MILES. ELEVATION: 105.2 (MOVO 1923, 1887 AU.).

NOTES



The Seal appearing on this document was authorized by Robert W. Young. 56551 on 10/23, 20 17

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APPRO	OVED: MANIE CO	ORDINATOR	



ASSOCIATES, INC.

FORT BEND COUNTY MUD No. 30 WATER SUPPLY PLANT NO. 3 PHASE I

> ELECTRICAL SCOPE OF WORK/ONE LINE DIAGRAM

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

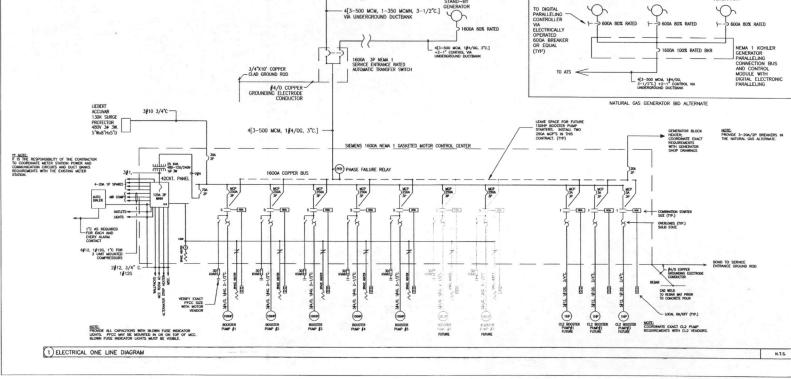


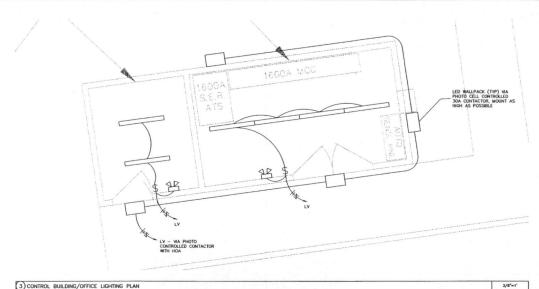
JOB No.: F003-1445	FOR CITY OF HOUSTON USE ONLY
WN BY: SMM	MINIMA
WING SCALE:	WILLIAM ON SAND BY

59242

AS SHOWN E2

SHEET NO. 36 OF 40



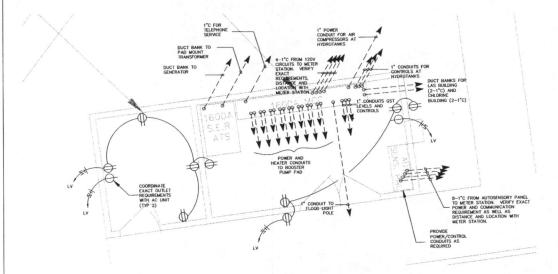




	LIGHTING LEGEND
	120V-4' LED BARE STRIP WITH WIRE GUARD AND INTEGRATED LED LUMINARIES. WILLIAMS \$76-4-LS3/640-WG-7611-DRV-UNV OR APPROVED EQUAL.
¤	120V-17W LED LAMP IN VAPOR TIGHT FIXTURE WITH GLOBE GUARD. BLOCK LIGHTING VXLG215-41-G OR APPROVED EQUAL.
	120V-DARK SKY COMPLIANT LED WALL PACK WILLIAMS #WWW H-L17/840-TL-BLK-CGL-UNV OR APPROVED EQUAL.
딮	120V COMPACT LED EMERGENCY LIGHT WITH 2 ADJUSTABLE HEADS. ISOLITE RL2-LED-WH OR APPROVED EQUAL.

4	LIGHTING	LEGEND	N.T.S.

(3) CONTROL BUILDING/OFFICE LIGHTING PLAN



① CONTRACTOR SHALL FOLLOW STANDARD LOCK-OUT/TAG-OUT PROCEDURES.

- $\ensuremath{ \textcircled{\textcircled{2}}}$ contractor shall furnish as built drawings at the end of construction to the engineer.
- (3) CONTRACTOR SHALL PERFORM ALL WORK IN ACCORDANCE WITH THE NEC AND ALL APPLICABLE LOCAL CODES AND ORDINANCES.
- ① CONTRACTOR SHALL NOTIFY OPERATOR 72 HOURS PRIOR TO STARTING WORK THAT WOULD DISRUPT NORMAL ACTIVITY
- 3 ALL WIRING SHALL BE THWN/THHN. ALL BUS/WIRING COPPER
- 6 ALL CONDUIT ABOVE GRADE RIGID STEEL

3/8"=1"

- 1 ALL CONDUIT BELOW GRADE RED CONCRETE ENCASED PVC
- (8) ALL WORK PER CITY OF HOUSTON ETJ STANDARDS
- (9) ALL LIGHTING TO COMPLY WITH FORT BEND COUNTY LIGHTING REGULATIONS

(2) ELECTRICAL NOTES	N.T.S.

BENCHMARK DATA:

CONTROL BENCH - RM = (0769) BRASS DISK SET IN EAST DIG OF SOUTH HEADWALL, APPROX 0.45 MILE MESS OF MILEPOST NO. 25 & APPROX 175 SOUTH OF CENTERINE OF FM 1093 (FBCSD DI: 0769) POINT IS WEST OF THE INTERSECTION OF HARLEM ROAD & FM 1093 (RED LIGHT) 3.03 MILES. ELEVATION: 105.52 (NOVD 1928, 1987 AU.).

NOTES



The Seal appearing on this document was authorized by Robert W. Young. 56551 on 10/23, 20 17

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DATE: 11/17/17



ROBERT W. YOUNG ASSOCIATES, INC.

FORT BEND COUNTY MUD No. 30 WATER SUPPLY PLANT NO. 3 PHASE I

OFFICE & MCC BUILDING ELECTRICAL POWER AND LIGHTING PLAN

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

(Ex 102617) 1210-26-17

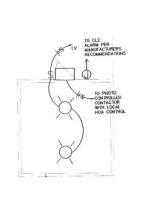
JAC JOB No.: F003-1445 DRAWN BY:

AS SHOWN E3

SHEET NO. 37 OF 40

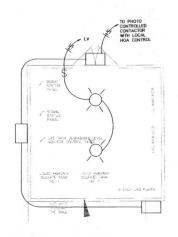
FOR CITY OF HOUSTON USE ONLY 59242

(1) CONTROL BUILDING/OFFICE POWER PLAN



(5) CHLORINE BUILDING LIGHTING PLAN

1) CHLORINE BUILDING POWER PLAN

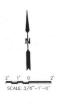


3/8'=1'

3/8*=1"

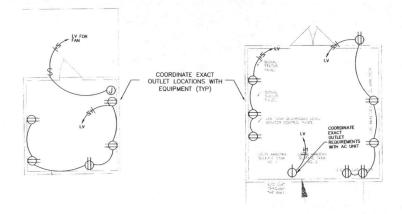
(6) LAS BUILDING LIGHTING PLAN

(2) LAS BUILDING POWER PLAN



	LIGHTING LEGEND
	120V-4' LED BARE STRIP WITH WIRE GUARD AND INTEGRATED LED LUMINARIES. WILLIAMS \$76-4-LS3/840-WG-7611-DRV-UNV OR APPROVED EQUAL.
¤	120V-17W LED LAMP IN VAPOR TIGHT FIXTURE WITH GLOBE GUARD. BLOCK LIGHTING #VXLG215-41-G OR APPROVED EQUAL.
0	120V-DARK SKY COMPLIANT LED WALL PACK WILLIAMS JONAW H-L17/840-TL-BLK-CGL-UNV OR APPROVED EQUAL.
₩	120V COMPACT LED EMERGENCY LIGHT WITH 2 ADJUSTABLE HEADS. ISOLITE ∲RL2-LED-WH OR APPROVED EQUAL.

(4) LIGHTING LEGEND	N.T.S.
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3/8"=1"

- ① CONTRACTOR SHALL FOLLOW STANDARD LOCK-OUT/TAG-OUT PROCEDURES.
- ② CONTRACTOR SHALL FURNISH AS BUILT DRAWINGS AT THE END OF CONSTRUCTION TO THE ENGINEER.
- (3) CONTRACTOR SHALL PERFORM ALL WORK IN ACCORDANCE WITH THE NEC AND ALL APPLICABLE LOCAL CODES AND ORDINANCES.
- CONTRACTOR SHALL NOTIFY OPERATOR 72 HOURS PRIOR TO STARTING WORK THAT WOULD DISRUPT NORMAL ACTIVITY
- (5) ALL WIRING SHALL BE THWN/THHN. ALL BUS/WIRING COPPER
- 6 ALL CONDUIT ABOVE GRADE RIGID STEEL
- 7 ALL CONDUIT BELOW GRADE RED CONCRETE ENCASED PVC
- (8) ALL WORK PER CITY OF HOUSTON ETJ STANDARDS
- ALL LIGHTING TO COMPLY WITH FORT BEND COUNTY LIGHTING REGULATIONS

(3) ELECTRICAL NOTES	N.T.S.
(3) ELECTRICAL NOTES	M.1.3.

BENCHMARK DATA:

CONTROL BENCH - RM = (0769) BRASS DISK SET IN EAST EN OF SOUTH HEADMALL APPROX. 6.45 MEE WESR OF MEEPOST NO. 25 & APPROX. 17 SOUTH OF CENTERING OF PM 1003 (FBCSD ID: 0769). POINT IS WEST OF THE WITERSCHION OF HARLAN ROAD & FM 1093 (RED LIGHT) 3.03 MILES. ELEVATION: 105.52 (NEV) 1023, 1987 AUJ.



The Seal appearing on this document was authorized by Robert W. Young. 56551 on 10/23, 20/7

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DATE: 11/17/17



ROBERT W. YOUNG ASSOCIATES, INC.

FORT BEND COUNTY MUD No. 30 WATER SUPPLY PLANT NO. 3
PHASE I

DISINFECTION STORAGE AND FEED BUILDING POWER AND LIGHTING PLANS

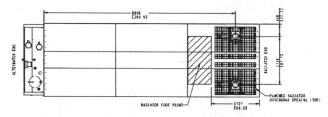


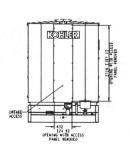
JAC JOB No.: F003-1445 DRAWN BY: SMM DRAWING SCALE: FOR CITY OF HOUSTON USE ONLY

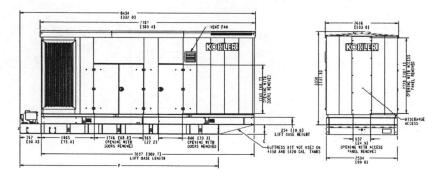
AS SHOWN E4 SHEET NO. 38 of 40

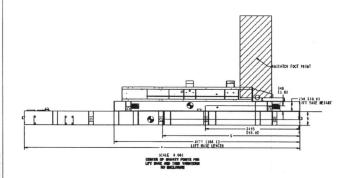
Fuel Tank	Est. Fuel Supply Hours at 60 Hz	Max. Dimensions, mm (in.)				Fuel Tank	Sound Pressure Level at 60 Hz
Capacity, L (gal.)	with Full Load (nominal)	Length	Width §	Height	Max. Weight, † kg (lb.)	Helght, mm (in.)	with Full Load, dB(A) ‡
KD1000 SL2 S	ound Enclosure with	Internal Silenc	er and State Cod	le Subbase Fuel	Tank *		
Lifting Base	0	8434 (332)	2616 (103)	3353 (132)	11213 (24721)		
3475 (918)	12			3706 (146)	14801 (32631)	356 (14.0)	
6621 (1749)	24			3934 (155)	15281 (33690)	584 (23.0)	77
12969 (3426)	48			4290 (169)	17064 (37621)	940 (37.0)	
19381 (5120)	72	11050 (435)		4366 (172)	18243 (40218)	1016 (40.0)	

COORDINATE EXACT PARAMETERS WITH VENDOR DATA SUBMITTAL









	MODEL AND A		TANK	& LIFT BASE INFO	RMATION		
LITERS [GALLONS] WIN HOURS		GENSETS DIM N MM [INCH]		DIM P MM [INCH]	WEIGHT KG [LBS] (NO FUEL)	VERTICAL C.C. DIM R MM [INCH]	HORIZONTAL C.G.
OPEN LIFT BASE	E	KD800-1000	SEE NOTE	SEE NOTE	129 [1,608 LB]	148 [5.8]	2435 [95.9]
3475 [918] 12 H	HOURS	KD800-1000	356 [14.0]	7112 [280.0]	3588 [7,910 LB]	145 [5.7]	3538 [139.3]
6621 [1749] 24 H	HOURS	KD800-1000	584 [23.0]	7112 [280.0]	4068 [8,969 LB]	256 [10.1]	3538 [139.3]
105/3 [2/93] 48 H	HOURS	K)800	914 [36.0]	7112 [280.0]	4647 [10,246 LB]	415 [16.3]	3488 [137.3]
	HOURS	KD900-1000	940 [37.0]	8400 [330.7]	5851 [12,900 LB]	419 [16.5]	4300 [169.3]
15740 [4158] 72 H	HOURS	K0800	1016 [40.0]	9144 [360.0]	6058 [13,356 LB]	451 [17.8]	4713 [185.6]
19381 [5120] 72 H	HOURS	KD900-1000	1016 [40.0]	11050 [435.0]	7030 [15,497 LB]	451 [17.8]	5713 [224 91

BENCHMARK DATA:

CONTROL BENCH — RM = (0269) BRASS DISK SET IN EAST DO OF SOUTH HEADWALL APPROX. 0.45 MLE WESP OF MERPOST NO. 25 & APPROX. 17 SOUTH OF CENTERING OF PM 1093 (FBCSD ID: 0769). POINT IS WEST OF THE INTERSECTION OF HARLEW RAAD & FM 1093 (RED LIGHT). 3.03 MLES. ELEVATION: 109.52 (NOYO 1929, 1987 ADJ.)

NOTE



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APPROVED: MANUAL DEVELOPMENT COORDINATOR

DATE: 11/17/17



P.O. DOZ 7113

ROBERT W. YOUNG

ASSOCIATES, INC.

FORT BEND COUNTY MUD No. 30 WATER SUPPLY PLANT NO. 3 PHASE I

> GENERATOR ELEVATION, DETAILS AND TANK DIMENSIONS

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

DEPARTMENT OF PUBLIC OF MATERIAL PROPERTY OF PUBLIC OF THE PUBLIC OF THE

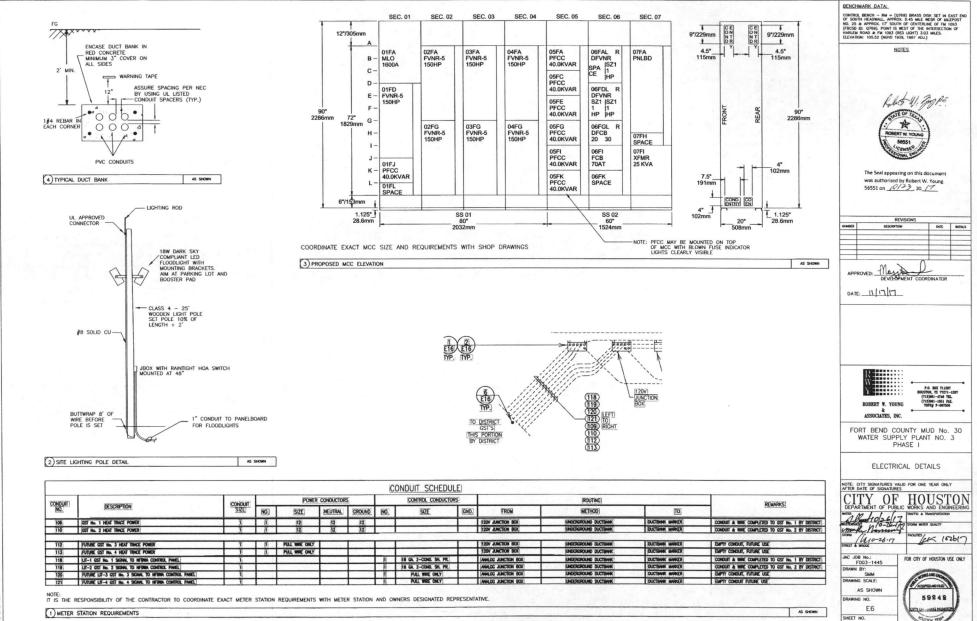
JC WORKS AND ENGINEERING THAT THE TRANSPORTATION TO STORM WATER QUALITY TACKINGS TO THE TRANSPORTATION TO STORM WATER QUALITY

JAC JOB No.:
F003-1445
DRAWN BY:
SMM
DRAWING SCALE:
AS SHOWN

FOR CITY OF HOUSTON USE ONLY

DRAWING NO.
E5
SHEET NO.
39 OF 40

59242 OTT On ONE MARKET



40 OF 40

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