



EXISTING			
CO	○	CLEANOUT	TEL <input checked="" type="checkbox"/> TELEPHONE PEDESTAL
PP	●	POWER POLE	SV ● SPRINKLER VALVE
SB	□	TRAFFIC SIGNAL BOX	WM <input checked="" type="checkbox"/> WATER METER
EB	<input type="checkbox"/>	ELECTRIC PULL BOX	WV ◀ WATER VALVE
FH	✱	FIRE HYDRANT	HB ● HOSE BIB
LP	✱	LIGHT POLE	WMH ⊙ WATER MANHOLE
EM	<input checked="" type="checkbox"/>	ELECTRIC METER	CIRS ○ IRON ROD SET WITH CAP STAMPED "GORRONDONA"
SDMH	●	SANITARY SEWER MANHOLE	CIR ● CAPPED IRON ROD
SN	⌋	SIGN	POC ● POINT ON A CURVE
SL	●	SIGNAL LIGHT	PRC ● POINT OF REVERSE CURVATURE
DI	□	DROP INLET	B.L. BUILDING LINE
SDMH	●	STORM DRAIN MANHOLE	C.F. N.O. CLERK'S FILE NUMBER
HH	<input type="checkbox"/>	HIBERNIC HANDHOLE	F.C. N.O. FILM CODE NUMBER
MHRCHT		MAP RECORDS OF HARRIS COUNTY, TEXAS	DRHCT DEED RECORDS OF HARRIS COUNTY, TEXAS
OPRRPHCT		OFFICIAL PUBLIC RECORDS OF REAL PROPERTY OF HARRIS COUNTY, TEXAS	 CONCRETE SURFACE
			 CURB AND GUTTER

ELECTRIC
CENTERPOINT ENERGY
HIRAM CLARK SERVICE CENTER
12045 SOUTH MAIN ST.
HOUSTON, TX 77035
CONTACT: JERMAINE WADE
PHONE: (713) 945-4480
EMAIL:
JERMAINE.WADE@CENTERPOINTENERGY.COM

WATER & SEWER
HOUSTON DEPARTMENT OF
PUBLIC WORKS AND ENGINEERING
611 WALKER
HOUSTON, TX 77002
CONTACT: CHRISTINE ROBINSON
PHONE: (832) 391-8869
EMAIL:
CHRISTINE.ROBINSON@HOUSTON.TX.GOV

UTILITY ANALYSIS SECTION
IMPACT FEE ADMINISTRATION
1002 WEST WASHINGTON AVE (3RD FLOOR)
HOUSTON, TX 77002
CONTACT: RUDY MORENO, JR.
PHONE: (832) 394-8983, -8999, -8980, -9630

ELECTRIC RESPONSIBILITY			
	GENERAL CONTRACTOR	UTILITY PROVIDER	N/A
CONDUIT / TRENCH	X		
TRANSFORMER PAD		X	
CT CABINET			X
EASEMENTS (TRANSFORMER)			X
EASEMENTS (SECONDARY LINE)			X

	GENERAL CONTRACTOR	UTILITY PROVIDER	N/A
CONDUIT / TRENCH	X		
PULL STRINGS		X	

	GENERAL CONTRACTOR	UTILITY PROVIDER	N/A
TAP	X		
DOMESTIC METER	X		
DOMESTIC BFP	X		
IRRIGATION METER	X		
IRRIGATION BFP	X		
HYDRANT	X		
EASEMENTS			X

	GENERAL CONTRACTOR	UTILITY PROVIDER	N/A
TAP	X		
EASEMENTS			X

<u>WATER & SANITARY SEWER FEES TO BE PAID BY MURPHY:</u>		
WATER:		
IMPACT FEE	=	\$222.66
ADMINISTRATIVE FEE	=	\$27.66
TOTAL	=	\$250.32
SANITARY SEWER:		
IMPACT FEE	=	\$426.16
ADMINISTRATIVE FEE	=	\$27.66
TOTAL	=	453.82

DOMESTIC: 1"
IRRIGATION: 1"

— — — — —	BOUNDARY LINE
— SAN> —	SANITARY SEWER SERVICE
— E —	UNDERGROUND ELECTRIC SERVICE
— T —	UNDERGROUND TELEPHONE SERVICE
— 1-1/4" W —	WATER SERVICE
— CF —	CONSTRUCTION FENCE (SEE CIVIL DETAILS)
— 12" W — 12" W —	WATER MAIN
— 4" W — 4" W —	WATER MAIN

- A. ALL BUILDING WATER LINES FROM METER TOWARDS BUILDING SHALL BE SCHEDULE 40 PVC, MEETING ASTM D1785 & D2685 SPECIFICATIONS, AND SHALL BE RATED FOR USE WITH POTABLE WATER PER NSF STD. 61 & STD.14, WITH 36" MIN. COVER.
- B. ALL SANITARY SEWER LINES SHALL BE SCHEDULE 40 PVC UNLESS OTHERWISE SPECIFIED BY THE UTILITY COMPANY, PROVIDE 36" MINIMUM COVER.
- C. CONTRACTOR SHALL COORDINATE ANY DISRUPTIONS TO EXISTING UTILITY SERVICES WITH ADJACENT PROPERTY OWNERS.
- D. ALL ELECTRIC AND TELEPHONE EXTENSIONS INCLUDING SERVICE LINES SHALL BE CONSTRUCTED TO THE APPROPRIATE UTILITY COMPANY SPECIFICATIONS. ALL UTILITY DISCONNECTIONS SHALL BE COORDINATED WITH THE DESIGNATED UTILITY COMPANIES.
- E. CONTRACTOR SHALL NOT START ON ANY PUBLIC UTILITY SYSTEM UNTIL WRITTEN APPROVAL HAS BEEN RECEIVED BY THE ENGINEER FROM THE APPROPRIATE GOVERNING AUTHORITY AND CONTRACTOR HAS BEEN NOTIFIED BY THE ENGINEER.
- F. PRIOR TO THE CONSTRUCTION OF OR CONNECTION TO ANY STORM DRAIN, SANITARY SEWER, WATER MAIN OR ANY OTHER UTILITIES, THE CONTRACTOR SHALL EXCAVATE, VERIFY AND LOCATE ALL EXISTING UTILITY CROSSINGS AND RECORDS AND INFORM GREENBERGFARROW ENGINEERS AND THE OWNER/DEVELOPER OF ANY CONFLICT OR REQUIRED DEVIATIONS FROM THE PLAN. NOTIFICATION SHALL BE MADE A MINIMUM OF (72) HOURS PRIOR TO CONSTRUCTION. GREENBERGFARROW AND ITS CLIENTS SHALL BE HELD HARMLESS IN THE EVENT THE CONTRACTOR FAILS TO MAKE SUCH NOTIFICATION.
- G. CONTRACTOR SHALL COMPLY COMPLETELY WITH THE LATEST STANDARDS OF OSHA DIRECTIVES OR ANY OTHER AGENCY HAVING JURISDICTION FOR EXCAVATION AND TRENCHING PROCEDURES. THE CONTRACTOR SHALL USE SUPPORT SYSTEMS, SLOPING, BENCHING AND OTHER MEANS OF PROTECTION, THIS IS TO INCLUDE, BUT NOT LIMITED FOR ACCESS AND EGRESS. ALL EXISTING UTILITIES SHALL BE PROTECTED. THE CONTRACTOR IS RESPONSIBLE FOR COMPLYING WITH PERFORMANCE CRITERIA AS REQUIRED BY OSHA.
- H. DISCHARGE OF GROUND WATER OR CHLORINATED FLUSH WATER TO THE TPOOT RIGHT-OF-WAY IS PROHIBITED. THE DISCHARGES CANNOT BE APPROVED BY THIS UTILITY PERMITTING SYSTEM. SHOULD DISCHARGE OF GROUND WATER OR CHLORINATED FLUSH WATER TO THE TPOOT RIGHT-OF-WAY BE REQUIRED DURING CONSTRUCTION, A SEPARATE AGREEMENT WITH THE UTILITY SHALL BE REQUIRED. PLEASE CONTACT TRICIA COLLETTE AT (713) 802-5588 FOR AGREEMENT REQUIREMENTS.

18E POINT OF RELOCATION
21A POINT OF CONNECTION - WATER SERVICE
22A M-1 GATE VALVE WITH ADJUSTABLE VALVE BOX AND THRUST BLOCKING
(SEE SIZE THIS SHEET)
22B PROPOSED WATER METER (SEE SIZE THIS SHEET)
22C COORDINATE WATER SHUT-OFF WITH WATER SUPPLY DISTRICT, CONTACT 24
HOURS BEFORE WORKING ON LINE
23A POINT OF CONNECTION - SANITARY SERVICE SERVICE
23E SANITARY SERVICE SERVICE ENTRY (PER BUILDING MECHANICAL PLANS)
23F CONNECT TO EXISTING SANITARY SERVICE MANHOLE
23L CONNECT GREASE TRAP TO EXISTING VENT SYSTEM, GREASE TRAP
VENT INVERT MUST BE HIGHER THAN INLET INVERT
24A POINT OF CONNECTION FOR UNDERGROUND ELECTRIC SERVICE
24E PROPOSED POLE MOUNTED TRANSFORMER
26A POINT OF CONNECTION FOR UNDERGROUND TELEPHONE
26B MAINTAIN MIN. 18" VERTICAL SEPARATION.
300 VERTICAL LOCATION AND DEPTHS OF EXISTING UTILITY BEFORE CONSTRUCTING
PROPOSED UTILITY
31E INSTALL (2) 4" PVC SLEEVES 30" BELOW FINAL GRADE UNDER DRIVEWAY.
EXTEND SLEEVES 2 FEET BEYOND BACK OF PROPOSED CURB OR EDGE OF
PAVEMENT, STAKE BOTH ENDS OF EACH SLEEVE WITH CAPPED VERTICAL
PVC PIPE, 12" ABOVE GRADE, DO NOT ALLOW SOIL OR WATER TO ENTER
SLEEVES DURING OR AFTER CONSTRUCTION.
31E INSTALL (1) 4" PVC SLEEVE 30" BELOW FINAL GRADE UNDER DRIVEWAY
FOR IRRIGATION LINE, EXTEND SLEEVE 2 FEET BEYOND BACK OF
PROPOSED CURB OR EDGE OF PAVEMENT, STAKE BOTH ENDS OF SLEEVE
WITH CAPPED VERTICAL PVC PIPE, 12" ABOVE GRADE, DO NOT ALLOW SOIL
OR WATER TO ENTER SLEEVE DURING OR AFTER CONSTRUCTION.

36A FIRE HYDRANT ASSEMBLY
38A TYPICAL UTILITY CROSSING (WATER MAIN LOWERING)
39E SANITARY SEWER SAMPLE WELL
39G SANITARY SEWER GREASE TRAP
40B SANITARY SEWER WYE CONNECTION
41D SANITARY SEWER CLEAN-OUT
41D WATER METER INSTALLATION
41E REDUCED PRESSURE ZONE BACKFLOW PREVENTER. CONTRACTOR TO VERIFY
TYPE PRIOR TO COMMENCING CONSTRUCTION.
42B SANITARY SEWER TRENCHING AND BEDDING.
42D CONCRETE ENCASEMENT FOR DI AND PVC PIPES

UTILITY PLAN
MURPHY EXPRESS
10431 S. POST OAK ROAD
HOUSTON TEXAS

GreenbergFarrow

MURPHY OIL USA, INC.
422 NORTH WASHINGTON
EL DORADO, AR 71730