

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

Fort Bend County Engineering Department

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

X	Right of Way Permit	
	Commercial Driveway Permi	
Dorr	nit No: 2018-10280	

Permit No. 2018-19280 The following "Notice of Proposed Cable, Conduit, and/or Pole Line activity in Fort Bend County" and accompanying attachments have been reviewed and the notice conforms to appropriate regulations set by Commissioner's Court of Fort Bend County, Texas. (1) COMPLETE APPLICATION FORM: a. Name of road, street, and/or drainage ditch affected. b. Vicinity map showing course of directions c. Plans and specifications (2) BOND: County Attorney, approval when applicable. Amount: \$50,000.00 Perpetual bond currently Bond No: posted. Performance bond submitted. Bond No: Amount: Cashier's Check Check No: Amount: (3) DRAINAGE DISTRICT APPROVAL (WHEN APPLICABLE): **Drainage District Approval** Date We have reviewed this project and agree it meets minimum requirements. 6/26/2018 Permit Administrator Date



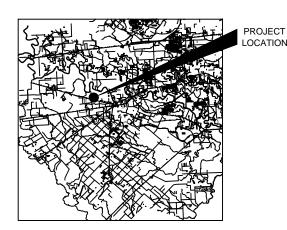
REVIEW BY FORT BEND COUNTY COMMISSIONERS COURT

Fort Bend County Engineering Department 301 Jackson Suite 401

Richmond, Texas 77469 281.633.7500 Permits@fortbendcountytx.gov

Χ	Right of Way Permit
	Commercial Driveway Permit
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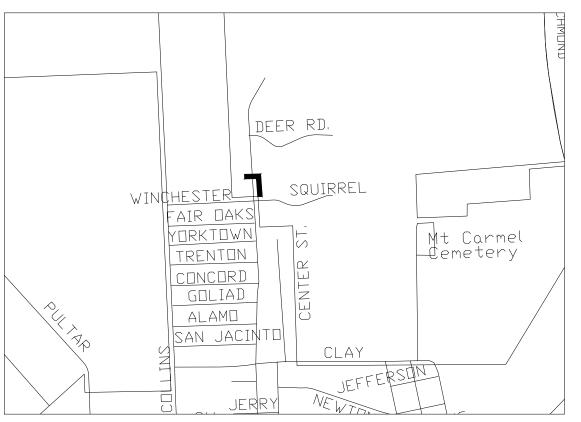
		_				
Applic	cant: New Ci	ngular Wireless PCS, LLC (dba AT&T Mo	bility		
Job L	ocation Site:	1022 Squirrel Road, Richm	ond, TX 7746	69		
Bond	No.	Date of Bond:	6/19/2018	_Amount:	\$50,000.00	
Laying Roads Comm Texas,	, Construction, , Streets, Highw hissioners Court of the Minutes	rame to make use of certain Maintenance, and Repair of rays, and Drainage Ditches in of Fort Bend County, Texas, of the Commissioners Court pter 181, Vernon's Texas Sta	Buried Cables Fort Bend Co ' as passed by of Fort Bend	, Conduits, and I unty, Texas, Und the Commission County, Texas, t	Pole Lines, In, Under, Acro der the Jurisdiction of the ners Court of Fort Bend C	oss or Along ounty,
 Evidence of review by the Commissioners Court must be kept on the job site and failure to do so constitutes grounds for job shutdown. Written notices are required: a. 48 hours in advance of construction start up, and b. When construction is completed and ready for final inspection, submit notification to Permit Administrator thru MyGovernmentOnline.org portal. This permit expires one (1) year from date of permit if construction has not commenced. 						
Comm notice	nissioner of said above p	y, <u>2018</u> , Upon Motion of Com , duly burpose is hereby acknowled aced on record according to t	put and carrioged by the Co	mmissioners Co	, seconded D, ADJUDGED AND DECRE urt of Fort Bend County,	ED that said
Signat	ure	1.	Prese	ented to Commis	ssioners Court and appro	ved.
By:	County Enginee	Eft.	Date	Recorded	Comm. Court No	
	N/A		Clerk	of Commission	ers Court	
By:	Drainage Distric	t Engineer/Manager	By: _	 Deputy		





PROJECT NAME: FIBER OPTIC PLACEMENT

PROJECT ADDRESS: 1022 SQUIRREL RD. RICHMOND, TX 77469 PROJECT TYPE: FIBER NETWORK CONSTRUCTION PACKAGE **COORDINATES:** LAT: 29.595574°, LONG: -95.769145°



- NOTE:

 NO PROPOSED STORM SEWER, WASTEWATER, OR WATER WORK IS SHOWN ON THIS PLAN SET, NOR INCLUDED IN THIS WORK SCOPE.
- NO PROPOSED WASTEWATER WORK IS SHOWN ON NOR INVOLVED IN THIS PLAN SET'S PROPOSED WORK SCOPE
- NO PROPOSED STORM SEWER OR DRAINAGE WORK IS SHOWN ON NOR INVOLVED IN THIS PLAN SET'S PROPOSED WORK SCOPE

CAUTION

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



FOREIGN UTILITY LOCATIONS ARE APPROXIMATE. CONTACT THE LOCAL ONE CALL AGENCY 48 HOURS PRIOR TO CONSTRUCTION FOR EXACT UTILITY LOCATIONS AT: TEXAS811 1-800-344-8377



713-223-4567 (IN HOUSTON) (1-800-344-8377)

VICINITY MAP

NOT TO SCALE

KEY MAP NO. 565X GIMS MAP NO. -ZIP CODE 77469

INDEX	
DESCRIPTION	SHEET NUMBER
COVER	01
CONTACTS, MATERIAL TOTALS	02
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TRAFFIC CONTROL PLAN	05



634 N. BALLARD WYLIE, TX 75098 OFFICE: 972-442-7005 FAX: 972-442-7087

ENGINEERING ORGANIZATION, LLC 5510 COMMUNITY DR HOUSTON, TX 77005 281-536-5123 OFFICE. 713-668-6334 FAX TEOLLC@GMAIL.COM TX FIRM NO: F-8978

FOR INTERIM REVIEW ONLY UNDER THE AUTHORITY OF E. GALVAN P.E. SERIAL NO.: <u>51526</u> ON: <u>DECEMBER 19. 2017</u> IT IS NOT TO BE USED FOR CONSTRUCTION, BIDDING, OR PERMIT PURPOSES.

THIS DOCUMENT IS RELEASED

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

CITY OF HOUSTON

DEPARTMENT OF PUBLIC	WORKS AND ENGINEERING
WATER	TRAFFIC AND TRANSPORTATION
WASTEWATER	STORM WATER QUALITY
STORM WATER	FACILITIES
STREET & BRIDGE	
	FOR CITY OF HOUSTON USE ONLY
CITY ENGINEER DATE	
DIRECTOR OF PUBLIC DATE	

01

LOG NO. -

05

CITY OF HOUSTON, TX FORT BEND COUNTY

MATERIAL TOTALS		
DESCRIPTION	QUANTITY	UNIT
PLACE 3'x4'x2' HH	0	EA.
DIR. BORE 1-2" CONDUIT POWER	118	FT.
12AWG PRO-TRACE HDD-CCS PE45	0	FT.
PLACE XXX FOC	0	FT.

UTILITIES		
MCI UTILITY LOCATE	1-800-624-9675	
TEXAS ONE CALL SYSTEM (UTILITY LOCATE)	1-800-245-4545	
NEW STATE WIDE UTILITY LOCATES	1-800-545-6005	
CITY OF HOUSTON UTILITY LOCATE	1-713-223-4567	
UNDERGROUND GAS FACILITIES	1-800-669-8344	
CENTERPOINT ENERGY PIPELINE	1-713-967-8037	
CENTERPOINT ENERGY ELECTRIC	1-713-207-7777	

CONTACTS		
NAME/ COMPANY	EMAIL	PHONE
RONNIE TEAFF - TDC2	RTEAFF@TDC2.COM	(214) 893-4658





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А	01/29/18	FOR COH REVIEW	TDC2
REV	DATE	DESCRIPTION	BY

REVISIONS



634 N. BALLARD WYLIE, TX 75098 OFFICE: 972-442-7005 FAX: 972-442-7087

TEO ENGINEERING ORGANIZATION ,LLC 5510 COMMUNITY DR HOUSTON, TX 77005 281-538-5123 OFFICE, 713-688-6334 FAX TEOLLC @GMAIL.COM

P.E. SERIAL NO.: <u>51526</u> ON: <u>JANUARY 29, 2018</u> IT IS NOT TO BE USED FOR CONSTRUCTION, BIDDING, OR PERMIT PURPOSES. TX FIRM NO: F-8978

SITE NAME

THIS DOCUMENT IS RELEASED FOR INTERIM REVIEW ONLY UNDER THE AUTHORITY OF

E. GALVAN

CRAN_RSTX_HSTNW_010

SITE ADDRESS

1022 SQUIRREL RD. RICHMOND, TX FORT BEND CO, USA

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

CITY OF HOUSTON DEPARTMENT OF PUBLIC WORKS AND ENGINEERING

DESIGNED BY:			
TDC2	TDC2		
DRAWN BY:			
TDC2			
SCALE:			
SHEET:	TOTAL SHT:		
112	05		

LOG NO. -

GENERAL NOTES & SPECIFICATIONS

NOTES:

- THE INFORMATION SHOWN ON THESE DRAWINGS WAS OBTAINED FROM FIELD SURVEYS AND THE CITY OF HOUSTON PUBLIC WORKS AND ENGINEERING DEPT. ALL INFORMATION CONCERNING TYPE AND LOCATION OF UNDERGROUND UTILITIES IS NOT GUARANTEED TO BE ACCURATE OR ALL INCLUSIVE. THE CONTRACTOR IS RESPONSIBLE FOR MAKING HIS WWN DETERMINATIONS AS TO TYPE AND LOCATION OF UNDERGROUND UTILITIES AS MA BE NECESSAW TO VOID DAMAGE THERETO. THE CONTRACTOR SHALL VERIFY LOCATION OF UNDERGROUND PIPELINES, CONDUITS AND STRUCTURES BY CONTACTING OWNERS OF UNDERGROUND UTILITIES OR BY EXCAVATIOR IN ADVANCE OF CONSTRUCTION.
- THE CONTRACTOR IS ALSO RESPONSIBLE FOR CONTACTING THE UTILITY COORDINATING COMMITTEE @ (713) 223-4567 AND TEXAS ONE CALL @ 1-(800) 344-8377, FORTY-EIGHT (48) HOURS PRIOR TO ANY CONSTRUCTION.
- ALL PROPOSED FACILITIES SHALL MAINTAIN 12" CLEAR FROM ALL PUBLIC AND PRIVATE

GENERAL CONSTRUCTION NOTES:

- WASTEWATER COLLECTION SYSTEMS, WATER LINES, STORM DRAINAGE AND STREET PAVING ARE DESIGNED IN ACCORDANCE WITH THE LATEST EDITION OF THE DOCUMENTS "STANDARD CONSTRUCTION SPECIFICATIONS FOR WASTEWATER COLLECTION SYSTEMS, WATER LINES STORM DRAINAGE AND STREET PAVING", "STANDARD CONSTRUCTION
 DETAILS FOR WASTEWATER COLLECTION SYSTEMS, WATER LINES STORM DRAINAGE AND
 STREET PAVING" AND THE "INFRASTRUCTURE DESIGN MANUAL" PUBLISHED BY THE CITY
 OF HOUSTON, DEPARTMENT OF PUBLIC WORKS AND ENGINEERING (OCTOBER 2002).
- ALL UTILITIES PRESENTED ON THESE DRAWINGS ARE SHOWN BASED ON THE BEST AVAILABLE INFORMATION. CONTRACTOR SHALL VERIFY IN THE FIELD THE EXACT LOCATIONS PRIOR TO COMMENCING CONSTRUCTION. CONTRACTOR SHALL NOTIFY TEXAS 11 CALL AT 1-(800) 344-8377 AT LEAST 48 HOURS BEFORE PROCEEDING WITH ANY
- THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR ANY DAMAGES TO EXISTING WATER, WASTEWATER, STORM WATER LINES AND TRAFFIC CONTROL DEVICES. ALL DAMAGES SHALL BE REPAIRED IN ACCORDANCE WITH THE CITY OF HOUSTON, DEPARTMENT OF PUBLIC WORKS AND ENGINEERINGS "STANDARD CONSTRUCTION SPECIFICATIONS" REFERENCED ABOVE, AT NO COST TO THE CITY OF HOUSTON 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.
- ADEQUATE DRAINAGE SHALL BE MAINTAINED AT ALL TIMES DURING CONSTRUCTION AND ANY DRAINAGE DITCH OR STRUCTURE DISTURBED DURING CONSTRUCTION SHALL BE RESTORED TO THE SATISFACTION OF THE OWNING AUTHORITY. CONTRACTOR SHALL TAKE RECESSARY PRECAUTIONS TO PROTECT ROOT SYSTEMS OF SHRUBS, PLANTS AND TREES ALONS THE AREA OF EXCAVATION.
- THE CONTRACTOR SHALL COMPLY- WITH THE LATEST EDITION OF OSHA REGULATIONS AND THE STATE OF TEXAS LAWS CONCERNING EXCAVATION.
- IF THE CONSTRUCTION DOES NOT BEGIN WITHIN A YEAR AFTER THE PLANS HAVE BEEN SIGNED, NEW SIGNATURES MUST BE OBTAINED AND LETTERS OF AVAILABILITY MUST BE UPDATED.
- 7. CONTRACTOR SHALL PREPARE A SET OF "AS-BUILT" DRAWINGS SHOWING ANY FIELD. CHANGES MADE TO THE APPROVED ENGINEERING PLANS AND SUBMIT TO THE DESIGN CONSULTANT FOR SUBMISSION TO THE CITY ENGINEER.
- 8. THE PROJECT IS SUBJECT TO THE CITY OF HOUSTON STREET CUT ORDINANCE.
- THE CONTRACTOR SHALL CONTACT ROBERT TALIBE (DIRECTOR OF ENGINEERING & CONSTRUCTION), THE UPTOWN HOUSTON DISTRICT, ONE WEEK BEFORE STARTING WORK ON THIS PROJECT. TELEPHONE NO. (713) 621-2011.

CITY OF HOUSTON

- 1, CONTRACTOR SHALL PROVIDE AND INSTALL TRAFFIC CONTROL DEVICES IN CONFORMANCE WITH PART VI OF THE TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (TEXAS MUTCD, MOST RECENT EDITION WITH REVISIONS) DURING CONSTRUCTION.
- 2. NO TRAFFIC LANES SHALL BE CLOSED DURING THE HOURS OF 5:30AM TO 7:00PM MONDAY THRU FRIDAY IN DOWNTOWN/MIDTOWN AREA.
- 3. NO TRAFFIC LANES SHALL BE CLOSED DURING THE HOURS OF 7:00AM TO 9:00PM AND 4:00PM TO 6:00PM MONDAY THRU FRIDAY.
- 4. NO TRAFFIC LANES SHALL BE CLOSED IN ALL RESIDENTIAL AREAS FROM 7:00PM TO 7:00AM.
- 5. CONTRACTOR SHALL MAINTAIN ONE LANE OF TRAFFIC IN EACH DIRECTION DURING WORKING
- 6. "CONTRACTOR SHALL COVER OPEN EXCAVATIONS WITH STEEL PLATES ANCHORED PROPERLY DURING NON-WORKING HOURS, AND OPEN THE LANES FOR NORMAL TRAFFIC FLOW.
- 7. _OFF-DUTY UNIFORMED POLICE OFFICER(S)/FLAGGER(S) IS/ARE REQUIRED TO DIRECT
- 8. IN THE EVENT THAT NO "TRAFFIC CONTROL PLANS" EXIST AS A PART OF CONTRACT DRAWINGS, CONTRACTOR MAY PREPARE PLANS* AND SUBMIT TO PLAN REVIEW SECTION FOR APPROVAL TEN DAYS PRIOR TO IMPLEMENTATION.
- 9. IF THE CONTRACTOR CHOOSES TO USE A DIFFERENT METHOD OF "TRAFFIC CONTROL PLANS" DURING THE CONSTRUCTION THAN WHAT IS OUTLINED IN THE CONTRACT DRAWINGS, HE/SHE SHALL BE RESPONSIBLE FRO PREPARING AND SUBMITTING AN ALTERNATE SET OF PLANS" TO THE PLAN REVIEW SECTION FOR APPROVAL TEN WORKING DAYS PRIOR TO IMPLEMENTATION.
- 10. APPROVED COPIES OF 'TRAFFIC CONTROL PLANS' AND LANE/SIDEWALK CLOSURE PERMITS SHALL BE AVAILABLE FOR INSPECTION AT THE JOB SITE AT ALL TIMES. THE CONTRACTOR MUST SECURE "LANE/SIDEWALK CLOSURE PERMITS" FROM THE CITY'S TRAFFIC DIVISION BEFORE CLOSING A LANE/SIDEWALK. THE REQUEST MUST BE MAKE AT LEAST TEN BUSINESS DAYS PRIOR TO THE DATE FOR WHICH THE CLOSURE IS SOUGHT. NOTE THAT WORKING HOURS MY BE RESTRICTED OR THE REQUEST MY BE DENIED. CALL 832-395-3020 FOR AN APPLICATION.
- *THESE PLANS SHALL BE DRAWN TO SCALE ON REPRODUCIBLE MYLARS AND SEALED BY A LICENSED ENGINEER IN THE STATE OF TEXAS, PLANS WILL BECOME A PART OF THE CONTRACT DRAWINGS.

GENERAL CONSTRUCTION NOTES FOR THE STORM WATER POLLUTION PREVENTION PLAN

STORM WATER POLLUTION PREVENTION PLAN (SWPPP) AND STORM WATER QUALITY

PLAN (SWQMP) COMPLIANCE NOTES FOR AREAS LESS THAN 1 ACRE:

-IF AREA IS DISTURBED. (CLEARING AND GRUBBING AND/OR EXCAVATION INVOLVED)
-PROVIDE BMP'S TO PREVENT ANY RUNOFF INTO THE CITY'S MS4
-PROVIDE SWPPP NOTES FOR CONSTRUCTION PLANS
-ANY CONSTRUCTION SITE RUNNOFF INTO THE CITY'S MS4 IS A VIOLATION OF THE CITY STORM
WATER ORDINANCE

SWPPP CONSTRUCTION NOTES:

- 1. CONTRACTOR SHALL IMPLEMENT INLET PROTECTION DEVICES AND REINFORCED FILTER FABRIC BARRIER ALONG ROAD AND SIDE DITCHES AT LOCATIONS SHOWN ON THE TYPICAL STROM WATER POLLUTION PREVENTION (SWPP) PLANS TO KEEP SILT AND/OR EXCAVATED MATERIALS FROM ENTERING INTO THE STORM WATER INLETS AND DITCHES EVENTUALLY POLLUTING THE RECEIVING STORM.
- 2. DURING THE EXCAVATION PHASE OF THE PROJECT, CONTRACTOR SHALL SCHEDULE THE WORK IN SHORT SEGMENTS SO THAT EXCAVATED MATERIAL CAN BE QUICKLY HAULED AWAY FROM THE SITE AND TO PREVENT IT FROM STAYING UNCOLLECTED ON THE EXISTING PAVEMENT, ANY LOOSE EXCAVATED MATERIAL WHICH FALLS ON PAVEMENTS OR DRIVEWAYS SHALL BE SWEPT BACK INTO THE EXCAVATED AREA.
- 3. CONTRACTOR SHALL CLEAN UP THE EXISTING STREET INTERSECTIONS AND DRIVEWAYS DAILY, AS NECESSARY, TO REMOVE ANY EXCESS MUD, SILT OR ROCK TRACKED FROM THE EXCOAVATED AREA.
- 4. CONTRACTOR SHALL FOLLOW GOOD HOUSEKEEPING PRACTICES DURING THE CONSTRUCTION OF THE PROJECT, ALWAYS CLEANING UP DIRT AND LOOSE MATERIAL AS CONSTRUCTION PROGRESSES.

-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 WHERE VEHICLES ENTER OR EXIT THE SITE.

6. CONTRACTOR TO BE RESPONSIBLE TO MAINTAIN EXISTING DITCHES AND/OR CULVERTS FOR UNOBSTRUCTED DRAINAGE AT ALL TIMES. WHERE SODDING IS DISTURBED BY EXCAVATION ON BACKFILLING OPERATIONS, SUCH AREAS SHALL BE REPLACED BY SEEDING OR SODDING. SLOPES 4:1 OR STEEPER SHALL BE REPLACED BY BLOCK SODDING.

STORM SEWER CONSTRUCTION NOTES

- STORM SEWERS SHALL BE REINFORCED CONCRETE PIPE(C-76,CLASS III), AND SHALL BE INSTALLED, BEDDED, AND BACKFILLED IN ACCORDANCE WITH THE CITY OF HOUSTON DRAWING NOS. 02317-02, 02317-03, 02317-05, 02317-06, AND 02317-07(OCT.2002) AS APPLICABLE UNLESS OTHERWISE SHOWN ON THE DRAWINGS
- 2. ALL STORM SEWER CONSTRUCTED IN SIDELOT EASEMENT SHALL BE R.C.P.(C-76CLASSIII) AND SHALL BE BEDDED IN ACCORDANCE WITH THE CITY OF HOUSTON DRAWING NOS, 02317-02, 02317-03, 02317-05, 02317-06, AND 02317-07(OCT.2002) AS APPLICABLE.
- ALL SEWER UNDER PROPOSED OR FUTURE PAVEMENT AND TO A POINT ONE (1) FOOT BACK OF ALL PROPOSED OR FUTURE CURBS SHALL BE BACKFILLED WITH 1-1/2 SACK CEMENTIC, YSTABILIZED SAND TO WITHIN ONE (1) FOOT OF SUBGRADE. THE REMAINING DEPTH OF THE TRENCH SHALL BE BACKFILLED WITH SUITABLE EARTH MATERIAL.
- ALL TRENCH BACKFILLS SHALL BE IN 8" LIFTS, WITH TESTS TAKEN AT 100 FOOT INTERVALS ON EACH LIFT, AND MECHANICALLY COMPACTED TO A DENSITY OF NOT LESS THAN 95% OF THE MAXIMUM DRY DENSITY AS DETERMINED BY THE STANDARD PROCTOR COMPACTION TEST (ASTAID 4-589/AASHTOT99).
- CIRCULAR AND ELLIPTICAL REINFORCED CONCRETE PIPE SHALL BE INSTALLED USING RUBBER GASKET JOINTS CONFORMING TO ASTM C443 AND ASTM C877 RESPECTIVELY.
- ALL STORM SEWER PIPES AND INLET LEADS SHALL BE 24-INCH AND LARGER R.C.P.(C-76, CLASS III).
- ALL PROPOSED PIPE STUB-OUTS FROM MANHOLES AND INLETS ARE TO BE PLUGGED WITH 8° BRICK WALLS UNLESS OTHERWISE NOTED.
- CONTRACTOR SHALL PROVIDE 18" MINIMUM VERTICAL & 48" HORIZONTAL CLEARANCE AT STORM SEWER AND WATER LINE CROSSINGS.
- ADJUST MANHOLF COVERS TO GRADE CONFORMING TO REQUIREMENTS OF SECTION 0286-AD JUSTING MANHOLES, INLETS AND VALVE BOXES TO GRADE
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING, MAINTAINING, AND RESTORING ANY BACK SLOPE DRAINAGE SYSTEM DISTURBED AS A RESULT OF HIS WORK.
- 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.

CITY OF HOUSTON STREET, BRIDGE & R.O.W.

- DEPARTMENT OF PUBLIC WORKS AND ENGINEERINGS "STANDARD CONSTRUCTION SPECIFICATIONS" AND STANDARD CONSTRUCTION DETAILS FOR WASTEWATER COLLECTION SYSTEMS, WATER LINES, STORM DRAINAGE, AND STREET PAVING" UNLESS OTHERWISE NOTED AND APPROVED ON THESE PLANS. THE DESIGN IS CONSISTENT WITH THE MINIMUM STANDARDS ESTABLISHED IN THE INFRASTRUCTURE DESIGN MANUAL.
- http://DOCUMENTS.PUBLICWORKS.HOUSTONTX.GOV/DOCUMENT-CENTER/ENGINEERING-AND-CONSTRUCTION/INDEX.HTM.
- FILL AREAS ON PLANS SHALL BE FILLED IN LAYERS NOT EXCEEDING 8' IN DEPTH AND EACH
 COMPACTED TO NOT LESS THAN 95%- STANDARD PROCTOR DENSITY PRIOR TO
 INSTALLATION OF WATER LINE AND FILL AREA SHALL BE SEEDED AND FERTILIZED WITHIN
- 3. UTILITY CONTRACTOR SHALL PROVIDE TEMPORARY SILT BARRIER FENCE ON ALL NON-CURB INLETS WHICH WILL REMAIN IN PLACE AFTER UNDERGROUND CONTRACT IS COMPLETE.
- 4. CONTRACTOR SHALL PROVIDE SILT BARRIER FENCE ON ALL STAGE 1 CURB INLETS.
- 5. EXISTING PAVEMENTS, CURBS, DRIVEWAYS, AND SIDEWALKS, DAMAGED OR REMOVED DURING CONSTRUCTION SHALL BE REPLACED TO CITY OF HOUSTON STANDARDS, WITH LATEST ADDEMDA AND AMENDMENTS THERETO.
- CONDITION OF THE ROAD AND/OR RIGHT-OF-WAY. UPON COMPLETION OF JOB, SHALL BE AS GOOD AS OR BETTER THAN PRIOR TO STARTING WORK.
- ADEQUATE DRAINAGE SHALL BE MAINTAINED AT ALL TIMES DURING CONSTRUCTION AND ANY DRAINAGE DITHO OR STRUCTURE DISTURBED DURING CONSTRUCTION SHALL BE RESTORED TO SATISFACTION OF THE OWNING AUTHORITY.
- EXPOSED 15' OF REINFORCING STEEL AT PROPOSED SAWED JOINT, IF NO REINFORCING STEEL EXISTS, USE HORIZONTAL DOWELS, HORIZONTAL DOWELS SHALL BE' 6 BARS, 24 LONG. 24' C-C. DRILLED AND EMBEDDED 8" INTO THE CENTER OF THE EXISTING SLAB W "PO ROC" OR EQUAL.
- CONTRACTOR TO TAKE NECESSARY PRECAUTIONS TO PROTECT ROOT SYSTEMS OF SHRUBS, PLANTS AND TREES ALONG AREAS OF EXCAVATION.
- CONTRACTOR SHALL COMPLY WITH OSHA REGULATIONS AND STATE OF TEXAS LAW CONCERNING EXCAVATION, TRENCHING AND SHORING AS SPECIFIED IN CITY OF HOUSTON

ORDINANCE '87-1457

- 11. WHEEL CHAIR RAMPS SHALL BE INSTALLED IN ACCORDANCE WITH CITY OF HOUSTO STANDARDS AT ALL INTERSECTIONS WHERE SIDEWALKS EXIST AND THE EXISTING CURB OR SIDEWALK IS DAMAGED OR REMOVED DURING CONSTRUCTION.
- 12. WASTEWATER COLLECTION SYSTEMS, WATER LINES, STORM DRAINAGE AND STREET PAVING SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE CITY OF HOUSTON, DEPARTMENT OF PUBLIC WORKS AND ENGINEERINGS'S STANDARD CONSTRUCTION SPECIFICATIONS' AND STANDARD CONSTRUCTION DETAILS FOR WASTEWATER COLLECTION SYSTEMS, WATER LINES, STORM DRAINAGE AND STREET PAVING' UNLESS OTHERWISE NOTED AND APPROVED ON THESE PLANS. THE DESIGN SHOULD BE CONSISTENT WITH THE MINIMUM STANDARD ESTABLISHED IN THE "DESIGN MANUAL FOR WASTEWATER COLLECTION SYSTEMS, WATER LINES, STORMS DRAINAGE AND STREET PAVING".
- 13. THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR ANY DAMAGES TO EXISTING WATER, WASTEWATER, STORM SEWER AND TRAFFIC SIGNAL CONDUITS, ALL DAMAGES SHALL BE REPAIRED IN ACCORDANCE WITH THE CITY OF HOUSTON, DEPT. OF PUBLIC WORKS AND ENGINEERING "STANDARD CONSTRUCTION SPECIFICATIONS" WITH LATEST ADDENDA AND AMENDMENTS THERETO, AT NO COST TO THE CITY OF HOUSTON.
- 14. PRIOR TO STREET CONSTRUCTION, THE CONTRACTOR SHALL CONTACT THE DEPARTMENT OF PUBLIC WORKS AND ENGINEERING AT 832-394-9386 OR 832-394-8851 AND COMPLY WITH ALL REQUIREMENTS FOR THE ISSUANCE OF RECESSARY PERMITS/WORK OR
- 15. DOUBLE REFLECTORIZED BLUE TRAFFIC MARKERS SHALL BE PLACED 6-INCHES OFFSET OF THE CENTERLINE OF ALL FIRE HYDRANT LOCATIONS BY THE PAVING CONTRACTOR. HYDRANTS LOCATED AT INTERSECTIONS SHALL HAVE A BUTTON PLACED ON EACH STREET.

AT&T TEXAS/SWBT FACILITIES

- THE LOCATIONS OF AT&T TEXAS/SWBT FACILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION BEFORE COMMENCINE WORK. HE AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE OCCASIONED BY THIS FAILURE TO EXACTLY LOCATE AND PRESERVE THESE UNDERGROUND UTILITIES.
- THE CONTRACTOR SHALL CALL 1-(800) 344-8377 A MINIMUM OF 48 HOURS PRIOR TO CONSTRUCTION TO HAVE UNDERGROUND LINES FIELD LOCATED.
- CONSTRUCTION TO HAVE UNDERGROUND LINES FIELD LOCATED.
 WHEN EXCAVATING WITHIN EIGHTEEN INCHES (18") OF THE INDICATED LOCATION OF AT&T
 TEXAS/SWBT FACILITIES, ALL EXCAVATIONS MUST BE ACCOMPUSHED USING
 NOM-MECHANIZED EXCAVATION PROCEDURES. WHEN BORING, THE CONTRACTOR SHALL
 EXPOSE THE AT&T TEXAS/SWBT FACILITIES ARE EXPOSED. THE CONTRACTOR WILL PROVIDE
 SUPPORT TO PREVENT DAMAGE TO THE CONDUIT DUCTS OR CABLES. WHEN EXCAVATING
 SUM TELEPHONE POLES AND THE CONTRACTOR SHALL BRACE THE POLE FOR SUPPORT.
 THE PRESENCE OR ASSENCE OF AT&T TEXAS/SWBT UNDERGROUND CONDUIT FACILITIES
 OF BURIED CABLE FACILITIES SHOWN ON THESE PLANS DOES NOT MEAN THAT THERE ARE
 NO DIRECT BURIED CABLES OR OTHER CABLES IN CONDUIT IN THE AREA.

 PLASE CONTACT THE ATAT TEXAS SHOWED PROVIDED MANAGER MR PROSSEVET IL FE
- 6. PLEASE ONTACT THE TATT TEXAS DANGE PREVENTION MANAGER MR. ROOSEVELT LEE
 JR. AT (713) 567-552 OR E-MAIL HIM AT RL/Z5996 ATT.COM, IF THERE ARE QUESTIONS
 ABOUT BORNING OR EXCAVATION NEAR OUR TATT TEXASSWET FACILITIES.

CAUTION: UNDERGROUND GAS FACILITIES

LOCATIONS OF CENTERPOINT ENERGY MAIN LINES (TO INCLUDE CENTERPOINT ENERGY LOCATIONS OF CENTERPOINT ENERGY MAIN LINES (TO INCLUDE CENTERPOINT ENERGY, INTRASTATE PIPELINE, LLC WHERE APPLICABLE) ARE SHOWN IN AN APPROXIMATE LOCATION ONLY. SERVICE LINES ARE USUALLY NOT SHOWN. OUR SIGNATURE ON THESE PLACES ONLY INDICATES THAT OUR FACILITIES ARE SHOWN IN APPROXIMATE LOCATION. IT DOES NOT IMPLY THAT A COMPLICT ANALYSIS HAS BEEN MADE. THE CONTRACTOR SHALL CONTACT THE UTILITY COORDINATION COMMITTEE AT (7/13) 223-4567 OR 1-(200) 669-8344 A MINIMUM OF 48 HOURS PRIOR TO CONSTRUCTION TO HAVE MAIN AND SERVICE LINES FIELD LOCATED.

- WHEN CENTERPOINT ENERGY PIPE LINE MARKINGS ARE NOT VISIBLE, CALL (713) 967-8037 (7:00 A.M. TO 4:14 P.M.) FOR STATUS OF LINE LOCATION REQUEST BEFORE EXCAVATION BEGINS
- WHEN EXCAVATION WITHIN (18") OF THE INDICATED LOCATION OF CENTERPOINT ENERGY. FACILITIES, ALL EXCAVATION MUST BE ACCOMPLISHED USING NON-MECHANIZED EXCAVATION PROCEDURES.
- WHEN CENTERPOINT ENERGY FACILITIES ARE EXPOSED. SUFFICIENT SUPPORT MUST BE PROVIDED TO THE FACILITIES TO PREVENT EXCESSIVE STRESS ON THE PIPING

THE CONTRACTOR IS FULLY RESPONSIBLE FOR ANY DAMAGES CAUSED BY HIS FAILURE TO EXACTLY LOCATED AND PRESERVE THESE UNDERGROUND FACILITIES.

WARNING: OVERHEAD ELECTRICAL FACILITIES

OVERHEAD LINES MAY EXIST ON THE PROPERTY. WE HAVE NOT ATTEMPTED TO MARK THOSE LINES SINCE THEY ARE CLEARLY VISIBLE, BUT YOU SHOULD LOCATE THEM PRIOR TO BEGINNING ANY CONSTRUCTION. TEXAS LAW, SECTION 752, HEALTH & SAFETY CODE, FORBIDS ALL ACTIVITIES IN WHICH PERSONS OR THINGS MAY COME WITHIN SIX (6) FEET OF LIVE OVERHEAD HIGH VOLT AGE LINES. PARTIES RESPONSIBLE FOR THE WORK, INCLUDING CONTRACTORS, ARE LIGALLY RESPONSIBLE FOR THE WORK, INCLUDING CONTRACTORS, ARE LEGALLY RESPONSIBLE FOR ITHE AFETY OF CONSTRUCTION WORKERS UNDER THIS LAW. THIS LAW CARRIES BOTH CRIMINAL AND CHILL LIABILITY. TO ARRANGE FOR LINES TO BE TURNED OFF OR REMOVED CALL CENTERPOINT ENERGY AT (713) 207-222-

WATER

WORK NEAR LARGE DIAMETER WATER LINES (24-INCH AND LARGER)

- 1. PERFORM CRITICAL LOCATE OF WATER LINE IN ACCORDANCE WITH COH SPECIFICATION 02317 USING A NON-PROBING, NON-WATER JETTING METHOD OF VACUUM EXCAVATION.
- 2. FOR UTILITIES PARALLEL TO LARGE DIAMETER WATER LINES PROVIDE A MINIMUM HORIZONTAL CLEARANCE EQUAL TO ONE PIPE DIAMETER OF THE WATER LINE (FOUR FEET MINIMUM) BETWEEN THE OUTSIDE OF THE WATER LINE AND THE PROPOSED.
- 3. FOR UTILITIES CROSSING LARGE DIAMETER WATER LINES BORES SHALL BE DRY-BORE CONSTRUCTION, WITH WET BORING NOT ALLOWED WITHIN ONE PIPE DIAMETER OF WATER LINE 4. WHEN LITH IZING BORE CONSTRUCTION, PROVIDE A MINIMUM FOUR FEET (ABOVE) VERTICAL
- CLEARANCE BETWEEN THE OUTSIDE OF THE WATER LINE AND THE PROPOSED UTILITY. (6' IF BELOW LARGE WL).
- 5. WHEN UTILIZING OPEN-CUT CONSTRUCTION, PROVIDE A MINIMUM OF TWO FEET VERTICAL 5. WHEN DITILIZING OFFEN-CHI CONSTRICTION, PROVIDE A MANDRUM OF TWO FEET VEHT CALL CLEARANCE BETWEEN THE OUTSIDE OF THE WATER LINE AND THE (ABOVE) PROPOSED UTILITY CONTRACTOR IS LIMITED TO HAND EXCAVATION WITHIN FOR FEET VERTICALLY AND HORIZONTALLY OF THE WATER LINE. (4 ° OF BELOW LARGE WL).

6. NO CONSTRUCTION RELATED ACTIVITIES INCLUDING, BUT NOT LIMITED TO, LOADING OF DUMP TRUCKS AND MATERIAL STAGING OR STORAGE ARE TO BE PREFORMED ON TOP OF EXISTING LARGE DIAMETER WATER LINES.

TOVOC 811 OR (1-800-344-8377) SIZE: PAPER SIZE TO 22x? SET PLOT SCALE 1 TO



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А	01/29/18	FOR COH REVIEW	TDC2
REV	DATE	DESCRIPTION	BY

REVISIONS



634 N. BALLARD WYLIE, TX 75098 OFFICE: 972-442-7005 FAX: 972-442-7087

ENGINEERING ORGANIZATION ,LLC 5510 COMMUNITY DR HOUSTON, TX 77005 281-536-5123 OFFICE FOLLC@GMAIL.COM

TX FIRM NO: F-8978

P.E. SERIAL NO.: 51526 ON: JANUARY 29, 2018 IT IS NOT TO BE USED FOR CONSTRUCTION BIDDING, OR PERMIT PURPOSES.

THIS DOCUMENT IS RELEASED.

E. GALVAN

FOR INTERIM REVIEW ONLY

SITE NAME

CRAN_RSTX_HSTNW_010

SITE ADDRESS

1022 SQUIRREL RD. RICHMOND, TX FORT BEND CO. USA

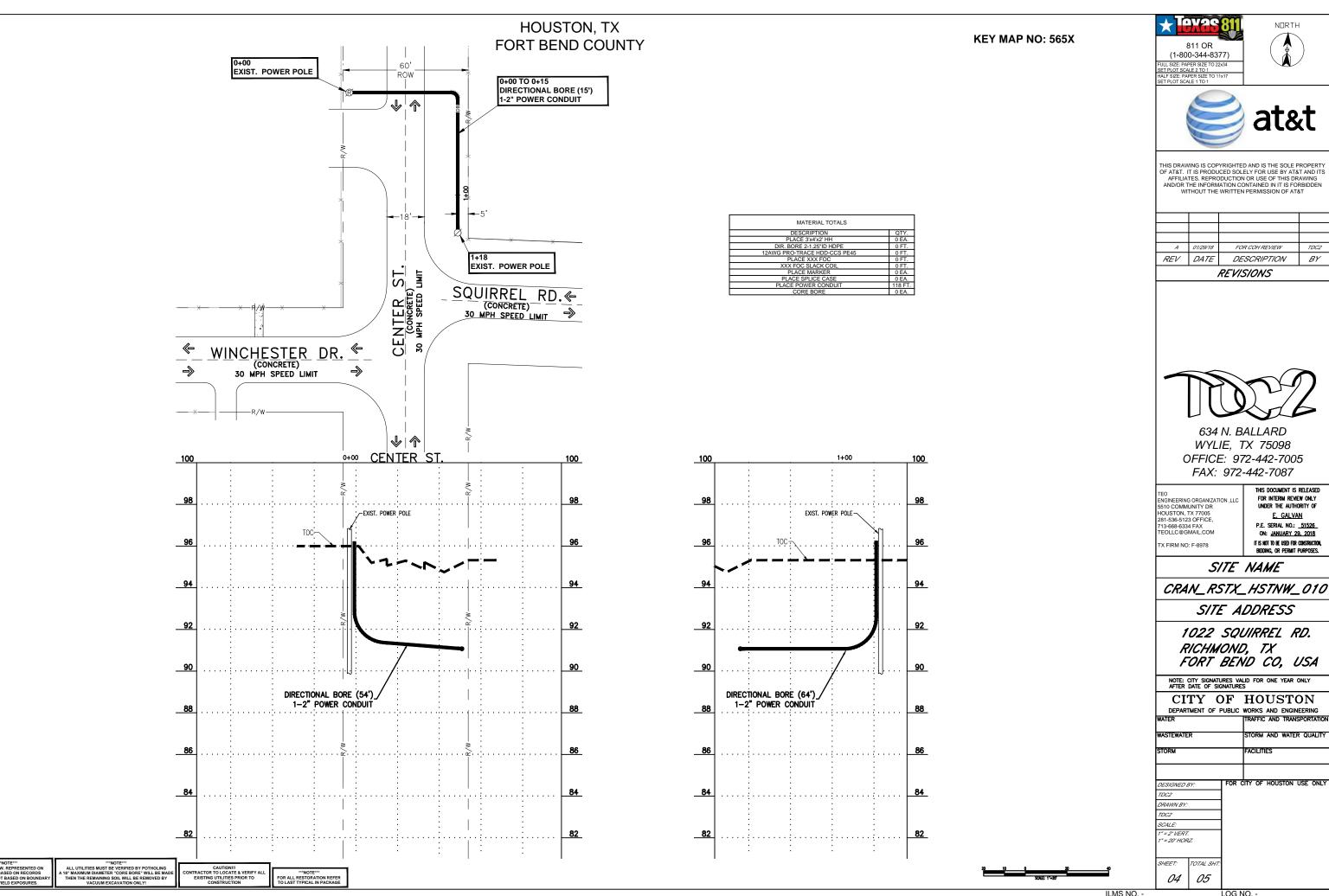
NOTE: CITY SIGNATURES VALID FOR ONE YEAR ONLY AFTER DATE OF SIGNATURES CITY OF HOUSTON

CIII	or moosio
DEPARTMENT OF	PUBLIC WORKS AND ENGINEER
WATER	TRAFFIC AND TRANSPO
WASTEWATER	STORM AND WATER Q
STORM	FACILITIES
DESIGNED BY:	FOR CITY OF HOUSTON USE
TDC2	
DRAWN BY:	

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LOG NO. -

SCALE.



CITY OF HOUSTON

DEPARTMENT OF PUBLIC WORKS AND ENGINEERING CAPITAL PROJECT DIVISION

- CONTRACTOR SHALL PROVIDE AND INSTALL TRAFFIC CONTROL DEVICES IN CONFORMANCE WITH PART
 VI OF THE TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (TEXAS M.U.T.C.D., MOST RECENT
 EDITION WITH REVISIONS) DURING CONSTRUCTION.
- 2. NO LANES SHALL BE CLOSED DURING THE HOURS OF 5:30 AM AND 7:00 PM, MONDAY THRU FRIDAY IN
- 3. NO WORK ON RESIDENTIAL STREETS FROM 7:00 PM TO 7:00 AM, SEVEN DAYS A WEEK.
- CONTRACTOR SHALL COVER OPEN EXCAVATIONS WITH STEEL PLATES ANCHORED PROPERLY DURING NON-WORKING HOUR AND OPEN LANES FOR NORMAL TRAFFIC FLOW.
- 5. OFF DUTY UNIFORM POLICE OFFICER(S)/CERTIFIED FLAGGER(S) IS/ARE REQUIRED TO DIRECT TRAFFIC WHEN LANES ARE BLOCKED.
- 6. IF THE CONTRACTOR CHOOSES TO USE A DIFFERENT METHOD OF "TRAFFIC CONTROL PLANS" DURING THE CONSTRUCTION THAN WHAT IS OUTLINED IN THE CONTRACT DRAWINGS, HE/SHE SHALL BE RESPONSIBLE TO PREPARE AND SUBMIT AN ALTERNATIVE SET OF PLANS" TO PLAN REVIEW SECTION FOR APPROVAL TEN WORKING DAYS PRIOR TO IMPLEMENTATION.

*THESE PLANS SHALL BE DRAWN TO SCALE ON REPRODUCIBLE MYLARS AND SEALED BY A REGISTERED PROFESSIONAL ENGINEER IN THE STATE OF TEXAS. PLANS WILL BECOME A PART OF THE CONTRACT

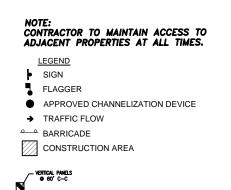
- 7. ALL TRAFFIC CONTROL DEVICES USED AT NIGHT SHALL BE REFLECTORIZED OR ILLUMINATED.
- CONTRACTOR SHALL MAINTAIN LOCAL DRIVEWAY ACCESS TO RESIDENTIAL AND COMMERCIAL PROPERTIES ADJACENT TO WORK AREA AT ALL TIMES.
- CONTRACTOR SHALL NOTIFY FIRE, POLICE, METROPOLITAN TRANSIT AUTHORITY, AND SCHOOLS FIVE WORKING DAYS PRIOR TO IMPLEMENTATION FOR TRAFFIC CONTROLS.
- APPROVED COPIES OF THE TRAFFIC CONTROL PLANS AND LANE CLOSURE PERMITS** SHALL BE AVAILABLE FOR INSPECTION AT JOB SITE AT ALL TIMES.

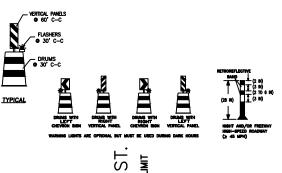
**CONTRACTOR MUST SECURE "LAND/SIDEWALK CLOSURE PERMITS" FROM CITY'S "TRAFFIC MANAGEMENT AND MAINTENANCE BRANCH" BEFORE CLOSING A LANE/SIDEWALK. THE REQUEST MUST BE MADE AT LEAST 10 BUSINESS DAYS PRIOR TO THE DATE WHICH THE CLOSURE IS SOUGHT. NOTE THAT THE WORKING HOURS MAY BE REGISTERED OR REQUEST MAY BE DENIED. CALL 832-395-3020 FOR AN APPLICATION.

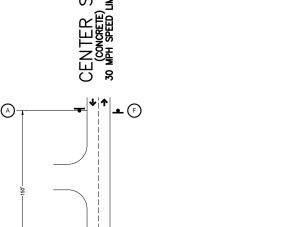
NOTE: WORK ZONE SET-UP WILL NOT REQUIRE LANE CLOSURE AS ALL WORK CAN BE PERFORMED SAFELY BEHIND THE CURB.

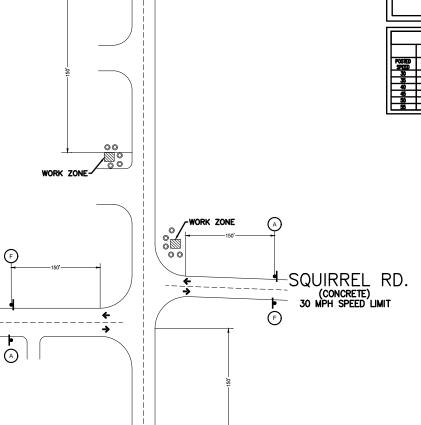
> CONTRACTOR NOTE: NIGHTS AND SUNDAY WORK ONLY.

> > WINCHESTER DR-(CONCRETE) 30 MPH SPEED LIMIT =

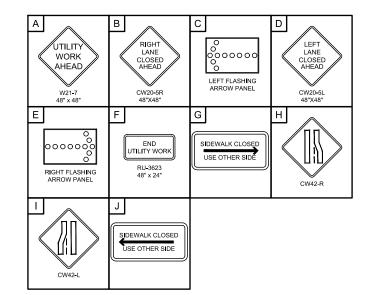


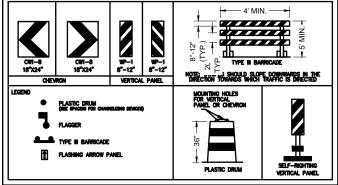






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281-536-5123 OFFICE,
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TEOLLC@GMAIL.COM

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FOR INTERIM REVIEW ONLY UNDER THE AUTHORITY OF E. GALVAN
P.E. SERIAL NO.: 51526
ON: JANUARY 29, 2018
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CITY C	F	HOUSTON
DEPARTMENT OF P	UBLIC W	ORKS AND ENGINEERING
WATER	T	RAFFIC AND TRANSPORTATIO
WASTEWATER	s	TORM AND WATER QUALITY
STORM	F	ACILITIES
STREET AND BRIDGE		
DESIGNED BY:	FOR CIT	Y OF HOUSTON USE ONLY
TDC2		

TDC2

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TDC2

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