

CONSENT TO ENCROACHMENT

THE STATE OF TEXAS §
 §
COUNTY OF FORT BEND §

WHEREAS, **FORT BEND COUNTY** (the “Owners”) own that certain tract or parcel of real property and all improvements situated thereon in FORT BEND COUNTY, Texas, and described more fully as:

Fort Bend County right-of-way.

which is described on the attached surveys dated November 28, 2022 through December 6, 2022 and attached hereto as Exhibit “A” and is also known as McKeever Road Fiber Optic Plans (the “Property”); and

WHEREAS, GULF COAST WATER AUTHORITY (“GCWA”) is a conservation and reclamation district and a political subdivision of the State of Texas, having its principal office at 3630 FM 1765, Texas City, Texas 77591; and

WHEREAS, the Property is on or adjacent to certain water over which GCWA has a right of use and access (“GCWA’s Area”); and

WHEREAS, the Owners wish to place a camera pole and fiber optic trunk line (the “Encroachment”) within a portion of GCWA’s Area; and

WHEREAS, the Owners have requested that GCWA give its consent to the Encroachment within GCWA’s Area; and

WHEREAS, the Owners and GCWA wish to set forth in writing their agreements concerning the Encroachment in this Consent to Encroachment (this “Consent”).

AGREEMENT

NOW, THEREFORE, for and in consideration of the mutual covenants contained herein, and other good and valuable consideration, the receipt and sufficiency of which are hereby expressly acknowledged, the parties agree as follows:

1. **GRANT OF LICENSE; TERM.** Pursuant to the terms and conditions set forth in this Consent, GCWA, as grantor, hereby grants to the Owners a license for the Owners to maintain on the Property and within GCWA's Area the Encroachment as shown on Exhibit A. The term of this Consent shall begin on the date on which this Consent is executed by GCWA (the "Effective Date") and, unless earlier terminated in accordance with the provisions hereof, shall expire on the thirtieth (30th) anniversary of the Effective Date.

2. **TERMINATION OF CONSENT.**

A. This Consent, and the license granted to Owners hereunder, shall automatically terminate if the Encroachment is hereafter either (i) removed by the party maintaining the Encroachment, or (ii) substantially destroyed by any cause beyond the control of and without the negligence of the GCWA. For purposes of the foregoing provision, the term "substantially destroyed" means that more than 75% of the Encroachment is damaged or destroyed.

B. GCWA shall have the right to terminate this Consent at any time and for any reason at its sole discretion upon twelve (12) months' prior written notice to Owners.

3. **MAINTENANCE AND REPAIRS.** The Owners are solely responsible for maintenance, repair and upkeep of the Encroachment and shall reimburse GCWA for any and all damage to GCWA's Area caused by the Encroachment.

4. **MISCELLANEOUS.** This Consent is intended solely for the benefit of the parties

hereto and shall not create any rights for any third parties. Venue for any action arising out of this Consent shall lie exclusively in the federal or state courts of Fort Bend County, Texas.

5. **REQUIRED CONTRACT PROVISIONS.** Every contract entered into between the Owners and any builder, supplier, mechanic, material man, laborer, worker, artisan, contractor or subcontractor in conjunction with the Owners' construction, operation, maintenance, inspection, repair, replacement, removal, existence and use of the Encroachment on, about, or attendant to GCWA's Area (a "Contractor") must contain a provision by which the Contractor agrees to defend, indemnify and hold harmless GCWA, its successors and assigns, agents, representatives, and employees ("GCWA Parties") from and against all liability arising from claims, suits, actions, costs (including reimbursement for reasonable attorney's fees and costs of investigation, expenses), damages, losses, fines, interest, penalties, assessments, judgments, demands, causes of action and all litigation/arbitration of any kind or character (individually, a "Claim" and collectively, "Claims") arising out of or in any way caused by, attributed to, resulting from or connected with the Owners' (including Owners' employees, agents, contractors, invitees, and others designated by Owners) construction, operation, maintenance, inspection, repair, replacement, removal, existence and used of said Encroachment on, about, or attendant to GCWA's Area that may be imposed on, incurred by or asserted by a third party against the GCWA Parties including any Claim alleged to be caused in whole or in part by the negligence or other wrongful act of a GCWA Party.

6. **DISCHARGE OF LIENS.** The Owners will not create or permit to be created or remain, and will discharge, at the Owners' sole cost and expense, any and all liens, encumbrances or charges levied on account of any builder's, supplier's, mechanic's, laborer's, materialmen's or similar lien that might become a lien, encumbrance, or charge upon GCWA's Area or any property belonging

to GCWA. If any such liens, encumbrances or charges shall at any time be filed against GCWA's Area or any property belonging to GCWA as a result of the Encroachment, the Owners will cause, within thirty (30) days' of written demand by GCWA, the same to be fully discharged and released of record by payment, deposit, bond, order of a court of competent jurisdiction, or otherwise.

7. EXPANSION OF ENCROACHMENT PROHIBITED. The Owners agree for themselves, and for their successors, assigns, and grantees, that they will not expand nor modify the Encroachment within GCWA's Area without the prior express written consent of GCWA and, unless otherwise expressly provided herein, any construction within GCWA's Area shall be performed in full compliance with the GCWA requirements and applicable zoning regulations.

8. ASSIGNMENT. The exercise and enjoyment by Owners' successors, assigns, and grantees of the rights and privileges to which GCWA has herein granted its consent shall constitute affirmative acceptance by such successors, assigns, and grantees of the terms and conditions herein contained; provided, however, that GCWA hereby requires, for itself, and its successors and assigns, that any such successor, assign, or grantee must further signify acceptance of such terms and conditions by execution of a Consent to Encroachment in recordable form, and payment to GCWA of the applicable fee therefor, and should any such successor, assign, or grantee refuse to execute such Consent to Encroachment and pay such fee, upon thirty (30) days' prior written notice from GCWA, the rights and privileges herein consented to shall thereupon automatically terminate and shall be of no further force and effect.

IN WITNESS WHEREOF, the Owners and GCWA have executed this Consent as of the respective acknowledgment dates set forth below, to become effective for all purposes as of the Effective Date.

GULF COAST WATER AUTHORITY

General Manager

Date: _____

FORT BEND COUNTY, TEXAS

KP George, County Judge

Date: _____

THE STATE OF TEXAS §
 §
COUNTY OF _____ §

 This instrument was acknowledged before me on the _____ day of _____, 20____,
by _____, the General Manager of Gulf Coast Water Authority, a
conservation and reclamation district and a political subdivision of the State of Texas, on behalf of
said conservation and reclamation district.

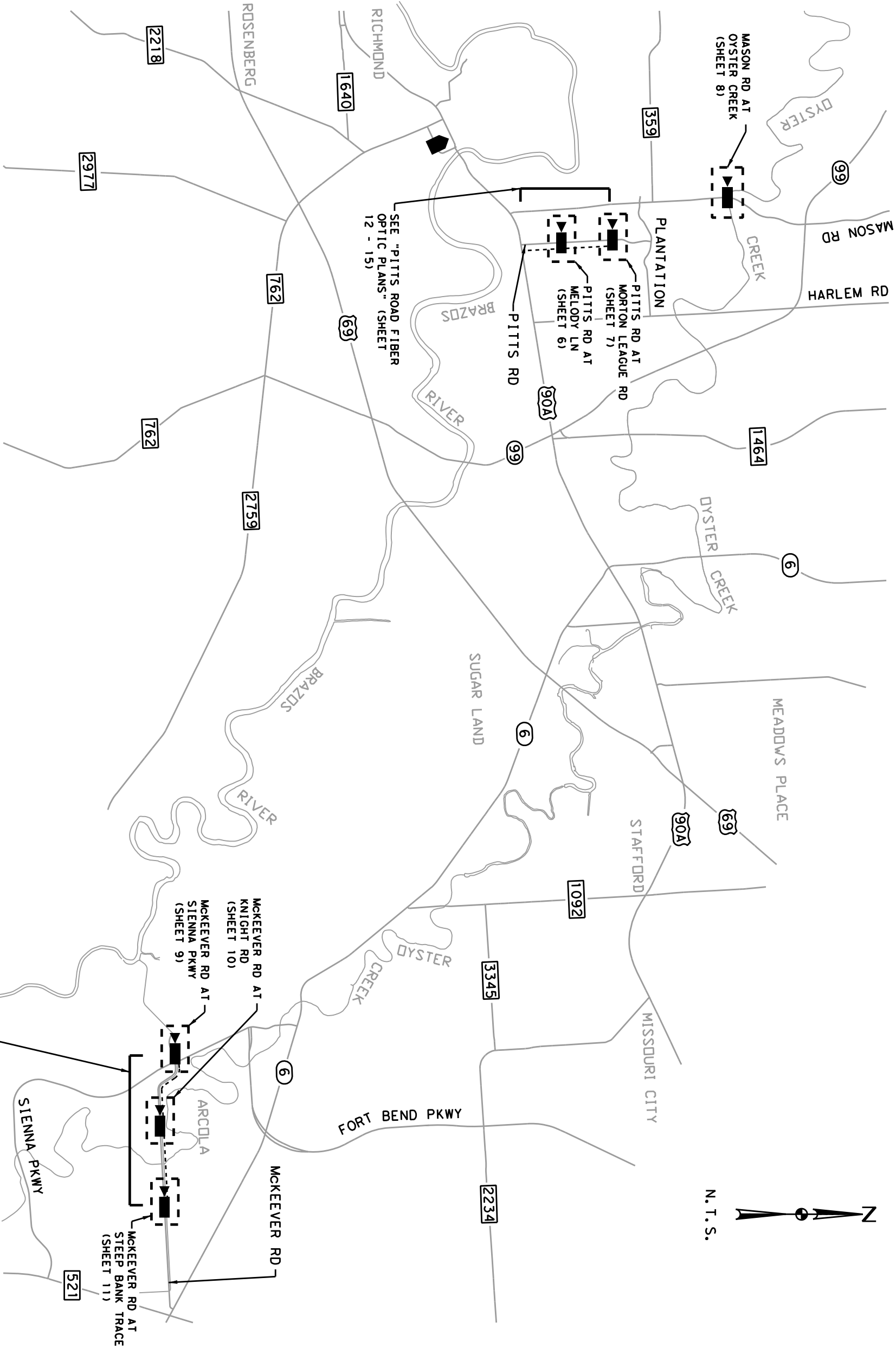
Notary Public In and For the State of Texas

THE STATE OF TEXAS §
 §
COUNTY OF FORT BEND §

 This instrument was acknowledged before me on the _____ day of _____, 2023,
by KP George, County Judge of Fort Bend County, Texas, on behalf of said county.

Notary Public In and For the State of Texas

Exhibit A



LEGEND:

EMERGENCY OPERATIONS CENTER

CCTV LOCATION

CONDUIT (HDPE) (BORE)

NO.	DATE	REVISION	BY

SUBMITTED FOR INTERIM REVIEW
UNDER THE AUTHORITY OF:

QUAN M. NGUYEN, P.E.,
TEXAS LICENSE NO. 111605
IT IS NOT TO BE USED FOR
CONSTRUCTION, BIDDING OR
PERMIT PURPOSES

11/28/2022

TBPE REG F-4779

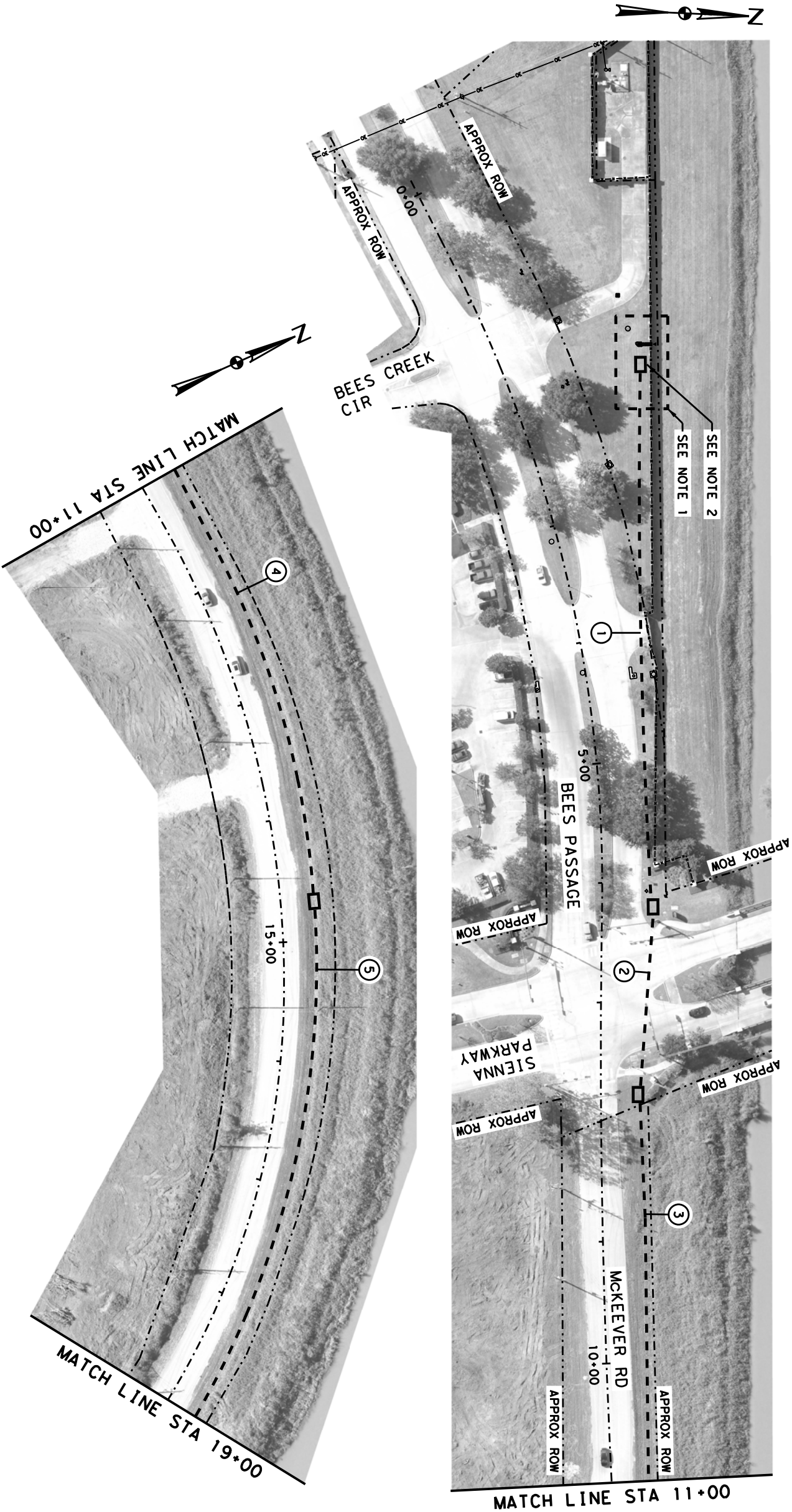
FORT BEND COUNTY

EMERGENCY NETWORK INFRASTRUCTURE
MONITORING SYSTEM

PHASE 1

PROJECT LOCATION
MAPS

DESIGNED: OMN	SCALE:
CHECKED: PAR	DATE: 11/28/2022
APPROVED: DEH	SHEET NO: 01



- LEGEND:**
- PROP CCTV W/ CABINET (30' POLE)
 - PROP ELECTRICAL SERVICE
 - PROP GROUND BOX TY A WITH APRON
 - PROP GROUND BOX TY 1 WITH APRON
 - PROP CONDUIT (HDPE) (BORE)
 - RUN NUMBER
 - OE OVERHEAD ELECTRICAL
 - FO FIBER OPTIC
 - UT UNDERGROUND TELEPHONE
 - G GAS
 - W WATER



NO.	DATE	REVISION	BY

SUBMITTED FOR INTERIM REVIEW
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12/6/2022



1BPE REC F-4779



FORT BEND COUNTY

EMERGENCY NETWORK INFRASTRUCTURE
MONITORING SYSTEM

McKEEVER ROAD
FIBER OPTIC PLANS

DESIGNED: OMN	SCALE: 1"=100'
CHECKED: PAR	DATE: 12/6/2022
APPROVED: DEH	SHEET NO: 02

QUANTITIES (THIS SHEET ONLY)			
ITEM-CODE	DESCRIPTION	UNIT	SHEET TOTAL
618 6006	CONDT (HDPE) (2") BORE	LF	1780
620 6002	ELEC CONDR (NO.14) INSULATED	LF	1780
6007 6017	FIBER OPTIC CBL (SNGLE-MODE) (144 FIBER)	LF	1880
6186 6006	ITS GND BOX (PCAST) TY 1 (243660) W / APRN	EA	4

- NOTE:**
- SEE SHEET "FLOOD MONITOR CCTV LAYOUT MCKEEVER ROAD AT SIENNA PARKWAY" FOR THE INSTALLATION OF ELECTRICAL SERVICE, GROUND BOXES, CONDUIT, CCTV, POLE AND CABINET DETAILS.

- COIL 100' OF 144 FIBER OPTIC CABLE IN GROUND BOX.

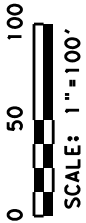
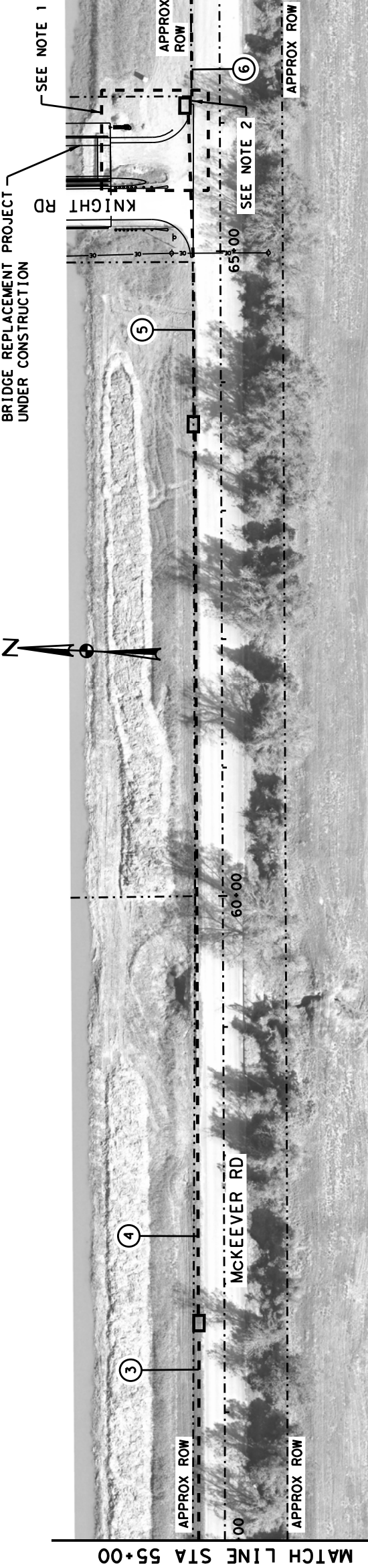
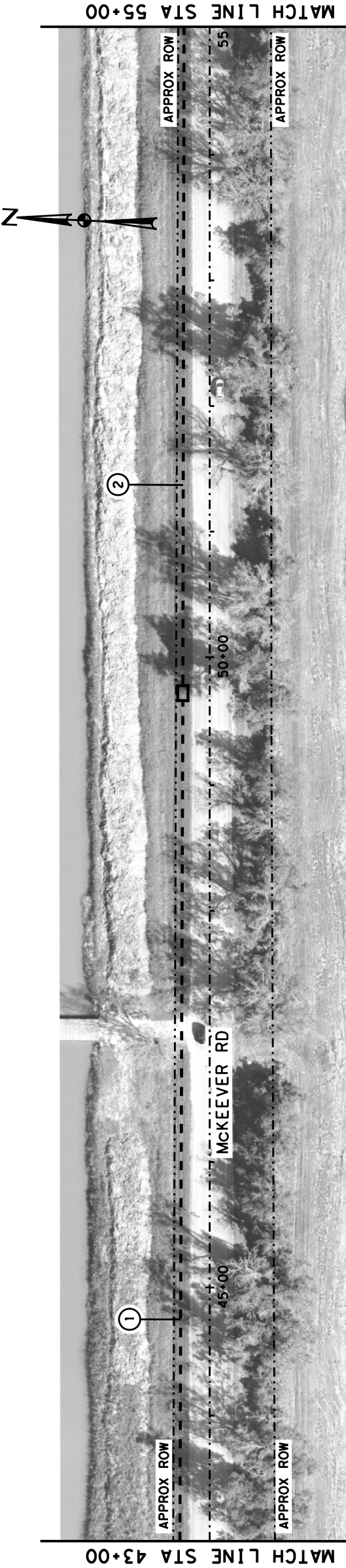
UTILITY NOTES:

- THE CONTRACTOR SHALL LOCATE ALL UTILITIES PRIOR TO COMMENCING WORK. OF UNDERGROUND FACILITIES AT LEAST 48 HOURS PRIOR TO ANY DRILLING, BORING, TRENCHING, OR EXCAVATING.
- THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR ANY DAMAGE CAUSED BY THE CONTRACTOR'S FAILURE TO LOCATE AND PRESERVE THESE UTILITIES, WHETHER UNDERGROUND, ABOVE GROUND, OR OVERHEAD.

CONDUIT AND CABLE SCHEDULE							
RUN NO.	CONDUIT		CABLE			RUN LENGTH	
		618 6006		620 6002	6007 6017		
1	1	460	1	1	460	1	460
2	1	160	1	1	160	1	160
3	1	325	1	1	325	1	325
4	1	385	1	1	385	1	385
5	1	450	1	1	450	1	450
TOTAL		1780		1780		1880	

STATUS: E = EXISTING; I = INSTALL

- LEGEND:
- PROP CCTV W/ CABINET (30' POLE)
 - PROP ELECTRICAL SERVICE
 - PROP GROUND BOX TY A WITH APRON
 - PROP GROUND BOX TY 1 WITH APRON
 - PROP CONDUIT (HDPE) (BORE)
 - RUN NUMBER
 - OVERHEAD ELECTRICAL
 - FIBER OPTIC
 - UNDERGROUND TELEPHONE
 - GAS
 - WATER



NO.	DATE	REVISION	BY

SUBMITTED FOR INTERIM REVIEW
UNDER THE AUTHORITY OF:

QUAN M. NGUYEN, P.E.
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12/6/2022

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TBPE REG F-4779



FORT BEND COUNTY

EMERGENCY NETWORK INFRASTRUCTURE
MONITORING SYSTEM

MCKEEVER ROAD
FIBER OPTIC PLANS

DESIGNED: OMN	SCALE: 1"=100'
CHECKED: PAR	DATE: 12/6/2022
APPROVED: DEH	SHEET NO: 03

CONDUIT AND CABLE SCHEDULE									
RUN NO.	CONDUIT		CABLE				FIBER OPTIC CBL (SINGLE-MODE) (144 FIBER)		
	618 6006		620 6002	6007 6017			# CABLES	# CABLES	RUN LENGTH
	COND (HDPE)	(2") (BORE)	# CONDUITS	CABLE STATUS	ELEC CONDR (NO. 14)	INSULATED	# CABLES	FIBER OPTIC CBL (SINGLE-MODE) (144 FIBER)	# CABLES
1	1	675	1	1	675	1	675	1	675
2	1	530	1	1	530	1	530	1	530
3	1	170	1	1	170	1	170	1	170
4	1	700	1	1	700	1	700	1	700
5	1	250	1	1	250	1	250	1	250
6	1	90	1	1	90	1	190	1	90
TOTAL		2415			2415		2515		

STATUS: E = EXISTING; I = INSTALL

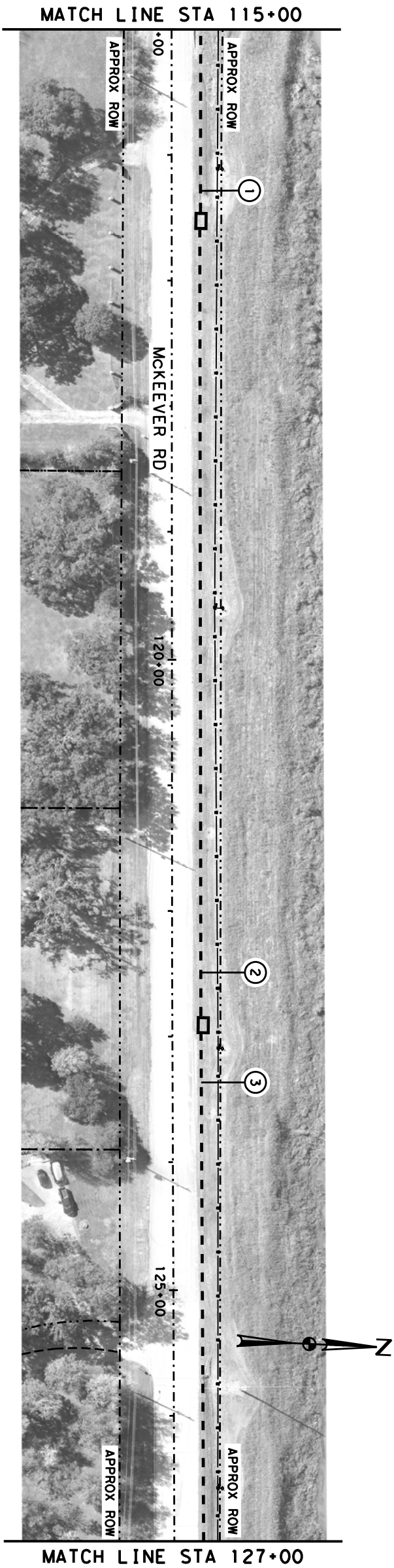
QUANTITIES (THIS SHEET ONLY)			
ITEM-CODE	DESCRIPTION	UNIT	SHEET TOTAL
618 6006	COND (HDPE) (2") BORE	LF	2415
620 6002	ELEC CONDR (NO.14) INSULATED	LF	2415
6007 6017	FIBER OPTIC CBL (SNGLE-MODE) (144 FIBER)	LF	2515
6186 6006	ITS GND BOX (PCAST) TY 1 (243660) W / APRN	EA	4

NOTE:

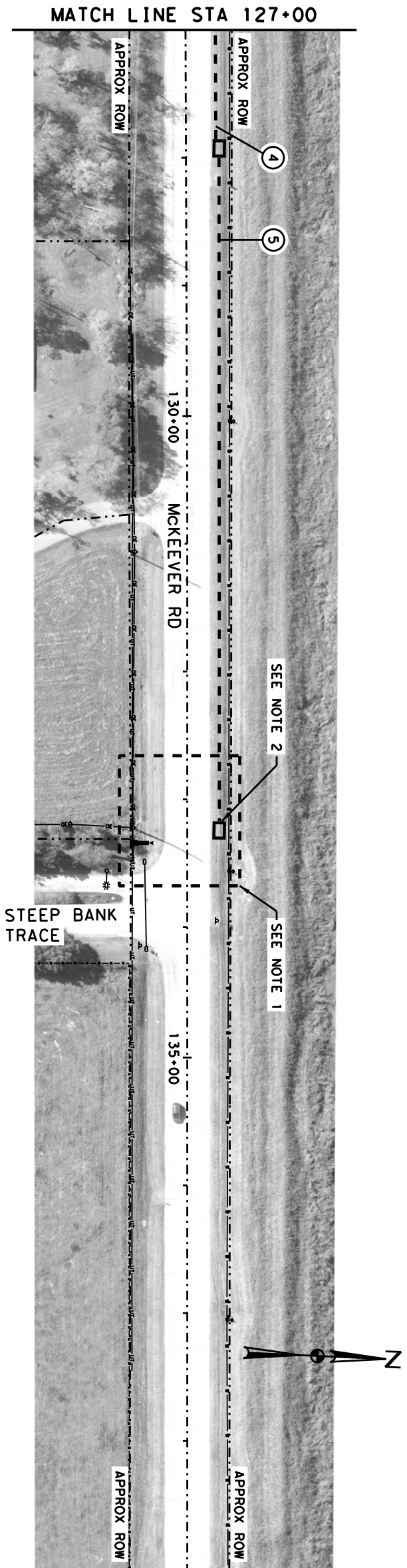
- SEE SHEET "FLOOD MONITOR CCTV LAYOUT MCKEEVER ROAD AT KNIGHT ROAD" FOR THE INSTALLATION OF ELECTRICAL SERVICE, GROUND BOXES, CONDUIT, CCTV, POLE AND CABINET DETAILS.
- COIL 100' OF 144 FIBER OPTIC CABLE IN GROUND BOX.

UTILITY NOTES:

- THE CONTRACTOR SHALL LOCATE ALL UTILITIES PRIOR TO COMMENCING WORK. THE CONTRACTOR SHALL CONTACT PUBLIC AND PRIVATE UTILITIES FOR LOCATION OF UNDERGROUND FACILITIES AT LEAST 48 HOURS PRIOR TO ANY DRILLING, BORING, TRENCHING, OR EXCAVATING.
- THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR ANY DAMAGE CAUSED BY THE CONTRACTOR'S FAILURE TO LOCATE AND PRESERVE THESE UTILITIES, WHETHER UNDERGROUND, ABOVE GROUND, OR OVERHEAD.



- LEGEND:**
- PROP CCTV W/ CABINET (30' POLE)
 - PROP ELECTRICAL SERVICE
 - PROP GROUND BOX TY A WITH APRON
 - PROP GROUND BOX TY 1 WITH APRON
 - PROP CONDUIT (HDPE) (BORE)
 - (XX) — RUN NUMBER
 - OE — OVERHEAD ELECTRICAL
 - FO — FIBER OPTIC
 - UT — UNDERGROUND TELEPHONE
 - G — GAS
 - W — WATER



QUANTITIES (THIS SHEET ONLY)			
ITEM-CODE	DESCRIPTION	UNIT	SHEET TOTAL
618 6006	CONDT (HDPE) (2") BORE	LF	1835
620 6002	ELEC CONDR (NO.14) INSULATED	LF	1835
6007 6017	FIBER OPTIC CBL (SNGLE-MODE) (144 FIBER)	LF	1935
6186 6006	ITS GND BOX (PCAST) TY 1 (243660) W / APRN	EA	4

NOTE:

- SEE SHEET "FLOOD MONITOR CCTV LAYOUT MCKEEVER ROAD AT STEEP BANK TRACE" FOR THE INSTALLATION OF ELECTRICAL SERVICE, GROUND BOXES, CONDUIT, CCTV, POLE AND CABINET DETAILS.
- COIL 100' OF 144 FIBER OPTIC CABLE IN GROUND BOX.

UTILITY NOTES:

- THE CONTRACTOR SHALL LOCATE ALL UTILITIES PRIOR TO COMMENCING WORK. OF UNDERGROUND FACILITIES AT LEAST 48 HOURS PRIOR TO ANY DRILLING, BORING, TRENCHING, OR EXCAVATING.
- THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR ANY DAMAGE CAUSED BY THE CONTRACTOR'S FAILURE TO LOCATE AND PRESERVE THESE UTILITIES, WHETHER UNDERGROUND, ABOVE GROUND, OR OVERHEAD.

CONDUIT AND CABLE SCHEDULE							
RUN NO.	CONDUIT		CABLE			RUN LENGTH	
	618 6006		620 6002	6007 6017			
1	1	155	1	1	155	1	155
2	1	640	1	1	640	1	640
3	1	415	1	1	415	1	415
4	1	90	1	1	90	1	90
5	1	535	1	1	535	1	535
TOTAL		1835			1835		1935

STATUS: E = EXISTING; I = INSTALL

NO.	DATE	REVISION	BY



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12/6/2022

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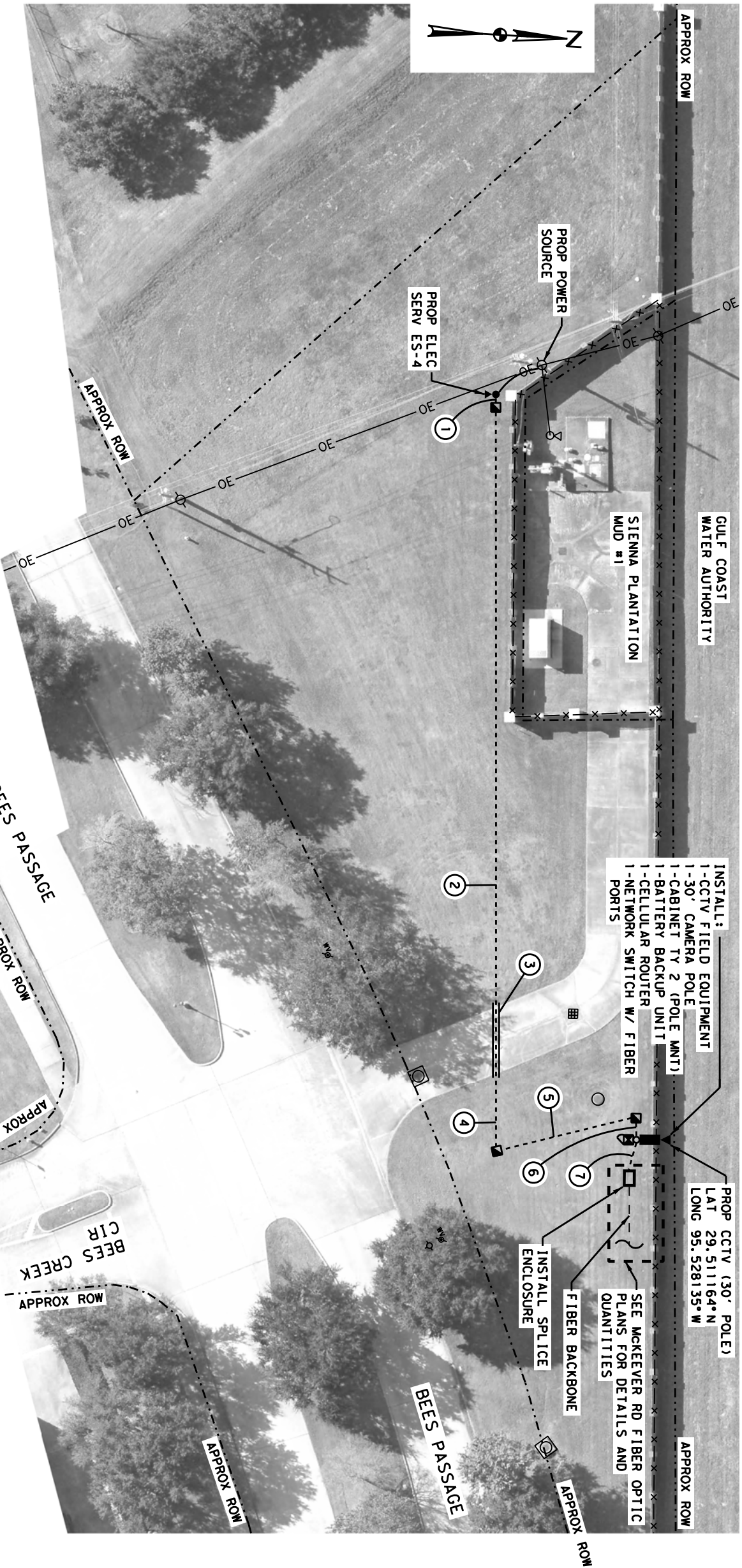
FORT BEND COUNTY

EMERGENCY NETWORK INFRASTRUCTURE
MONITORING SYSTEM

MCKEEVER ROAD
FIBER OPTIC PLANS

DESIGNED: OMN	SCALE: 1"=100'
CHECKED: PAR	DATE: 12/6/2022
APPROVED: DEH	SHEET NO: 04

Exhibit B



QUANTITIES (THIS SHEET ONLY)		
ITEM-CODE	DESCRIPTION	SHEET TOTAL
416 6004	DRILL SHAFT (36 IN)	LF 18
618 6023	CONDT (PVC) (SCH 40) (2")	LF 295
618 6047	CONDT (PVC) (SCH 80) (2") (BORE)	LF 25
620 6002	ELEC CONDR (NO. 14) INSULATED	LF 15
620 6007	ELEC CONDR (NO. 8) BARE	LF 305
620 6008	ELEC CONDR (NO. 8) INSULATED	LF 610
624 6002	GROUND BOX TY A (122311) W/APRON	EA 2
628 6152	ELC SRV TY D 120/240 060 (NS) SS (N) SP (O)	EA 1
6007 6010	FIBER OPTIC CBL (SNGLE-MODE) (6 FIBER)	LF 40
6010 6011	CCTV FIELD EQUIP (DIGITAL) (INSTL ONLY)	EA 1
6064 6011	ITS POLE (30 FT) (110 MPH)	EA 1
6064 6085	ITS POLE MNT CAB (TY 2) (CONF 2) (INS)	EA 1
6094 6011	SPLICE ENCLOSURE	EA 1
	BATTERY BACKUP UNIT	EA 1
	CELLULAR ROUTER	EA 1
	NETWORK SWITCH W/ FIBER PORTS	EA 1

UTILITY NOTES:

1. THE CONTRACTOR SHALL LOCATE ALL UTILITIES PRIOR TO COMMENCING WORK. THE CONTRACTOR SHALL CONTACT PUBLIC AND PRIVATE UTILITIES FOR LOCATION OF UNDERGROUND FACILITIES AT LEAST 48 HOURS PRIOR TO ANY DRILLING, BORING, TRENCHING, OR EXCAVATING.
2. THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR ANY DAMAGE CAUSED BY THE CONTRACTOR'S FAILURE TO LOCATE AND PRESERVE THESE UTILITIES, WHETHER UNDERGROUND, ABOVE GROUND, OR OVERHEAD.

RUN NO.	CONDUIT AND CABLE SCHEDULE						
	CONDUIT		CABLE				RUN LENGTH
	618 6023	618 6047	620 6002	620 6007	620 6008	6007 6010	
1	1 5	1 0	1 0	1 1	10 2	0 0	5
2	1 195	1 0	1 0	1 195	1 390	2 0	195
3	1 0	25 1	1 0	25 1	50 2	0 0	25
4	1 25	1 0	1 0	25 1	50 2	0 0	25
5	1 45	1 0	1 0	45 1	90 2	0 0	45
6	1 10	1 0	1 0	10 1	20 2	0 0	10
7	1 15	1 0	1 15	1 0	0 0	40 1	15
TOTAL	295	25	15	305	610	40	

- LEGEND:
- PROF CCTV W/ CABINET (30' POLE)
 - PROF ELECTRICAL SERVICE
 - PROF GROUND BOX TY A WITH APRON
 - PROF GROUND BOX TY 1 WITH APRON
 - PROF CONDUIT (TRENCH)
 - PROF CONDUIT (BORE)
 - RUN NUMBER
 - OVERHEAD ELECTRICAL
 - FIBER OPTIC
 - UNDERGROUND TELEPHONE
 - GAS
 - WATER



NO.	DATE	REVISION	BY

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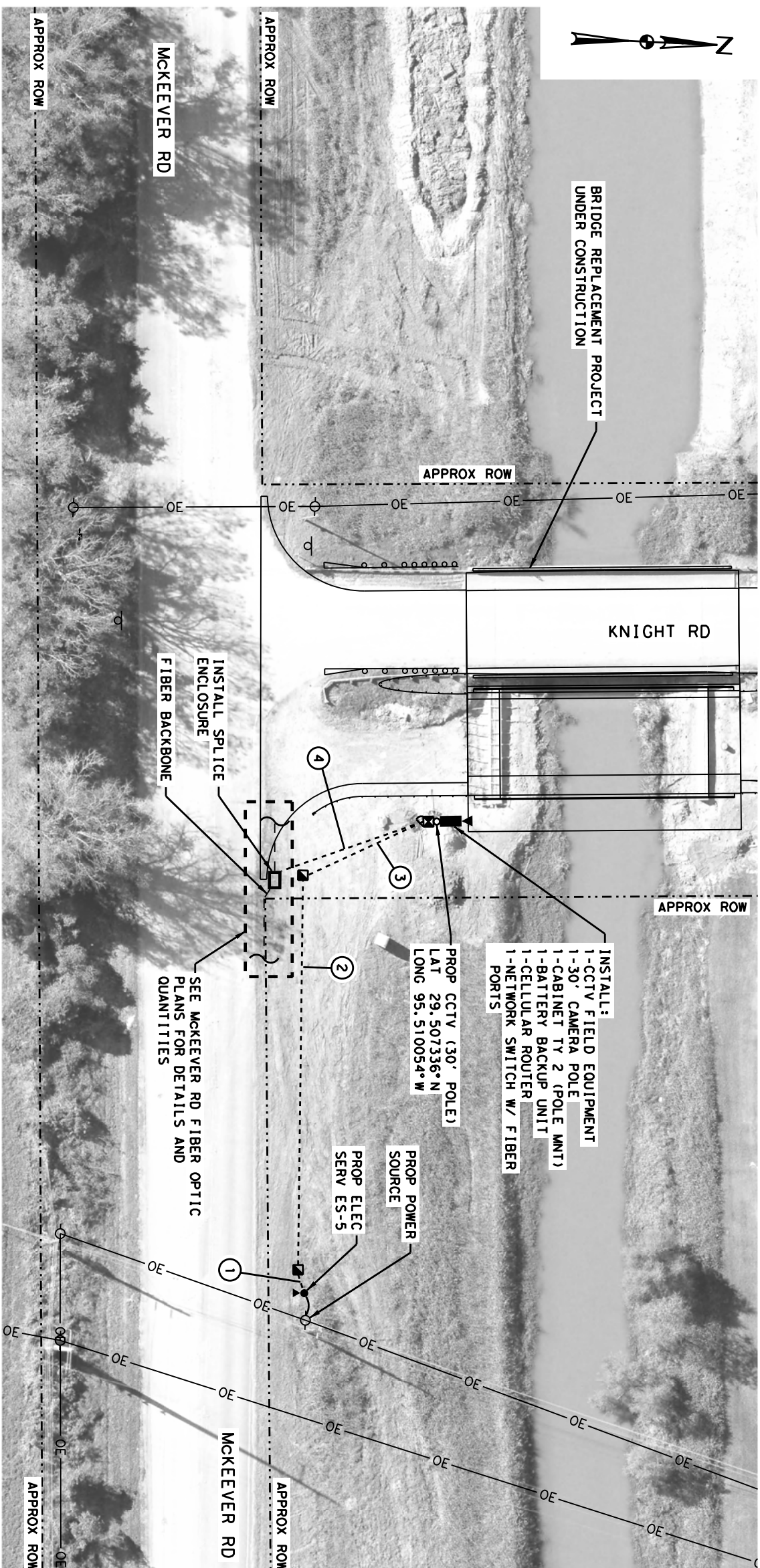
TBPE REG F-4779



FORT BEND COUNTY
EMERGENCY NETWORK INFRASTRUCTURE
MONITORING SYSTEM

CCTV SITE LAYOUT
MCKEEVER ROAD AT
SIENNA PARKWAY

DESIGNED: OMN	SCALE: 1"=40'
CHECKED: PAR	DATE: 12/6/2022
APPROVED: DEH	SHEET NO: 05



QUANTITIES (THIS SHEET ONLY)			
ITEM-CODE	DESCRIPTION	UNIT	SHEET TOTAL
416 6004	DRILL SHAFT (36 IN)	LF	18
618 6023	COND'T (PVC) (SCH 40) (2")	LF	235
620 6002	ELEC CONDR (NO.14) INSULATED	LF	55
620 6007	ELEC CONDR (NO.8) BARE	LF	180
620 6008	ELEC CONDR (NO.8) INSULATED	LF	360
624 6002	GROUND BOX TY A (122311)W/APRON	EA	2
628 6152	ELC SRV TY D 120/240 060(INS)SS(N)SP(O)	EA	1
6007 6010	FIBER OPTIC CBL (SNGLE-MODE) (6 FIBER)	LF	80
6010 6011	CCTV FIELD EQUIP (DIGITAL) (INSTL ONLY)	EA	1
6064 6011	ITS POLE (30 FT) (110 MPH)	EA	1
6064 6085	ITS POLE MNT CAB (TY 2) (CONF 2) (INS)	EA	1
6094 6011	SPlice ENCLOSURE	EA	1
	BATTERY BACKUP UNIT	EA	1
	CELLULAR ROUTER	EA	1
	NETWORK SWITCH W/ FIBER PORTS	EA	1

CONDUIT AND CABLE SCHEDULE									
RUN NO.	CONDUIT		CABLE				RUN LENGTH		
	CONDUIT STATUS	618 6023	620 6002	620 6007	620 6008	6007 6010			
1	1	5	1	1	0		5		
2	1	130	1	1	0		130		
3	1	45	1	1	0		45		
4	1	55	1	1	55	1	55		
TOTAL		235		55		180	360		
						80			

UTILITY NOTES:

1. THE CONTRACTOR SHALL LOCATE ALL UTILITIES PRIOR TO COMMENCING WORK. THE CONTRACTOR SHALL CONTACT PUBLIC AND PRIVATE UTILITIES FOR LOCATION OF UNDERGROUND FACILITIES AT LEAST 48 HOURS PRIOR TO ANY DRILLING, BORING, TRENCHING, OR EXCAVATING.
2. THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR ANY DAMAGE CAUSED BY THE CONTRACTOR'S FAILURE TO LOCATE AND PRESERVE THESE UTILITIES, WHETHER UNDERGROUND, ABOVE GROUND, OR OVERHEAD.

	PROP CCTV W/ CABINET (30' POLE)
	PROP ELECTRICAL SERVICE
	PROP GROUND BOX TY A WITH APRON
	PROP GROUND BOX TY 1 WITH APRON
	PROP CONDUIT (TRENCH)
	PROP CONDUIT (BORE)
	RUN NUMBER
	OVERHEAD ELECTRICAL
	FIBER OPTIC
	UNDERGROUND TELEPHONE
	GAS
	WATER



NO.	DATE	REVISION	BY

**SUBMITTED FOR INTERIM REVIEW
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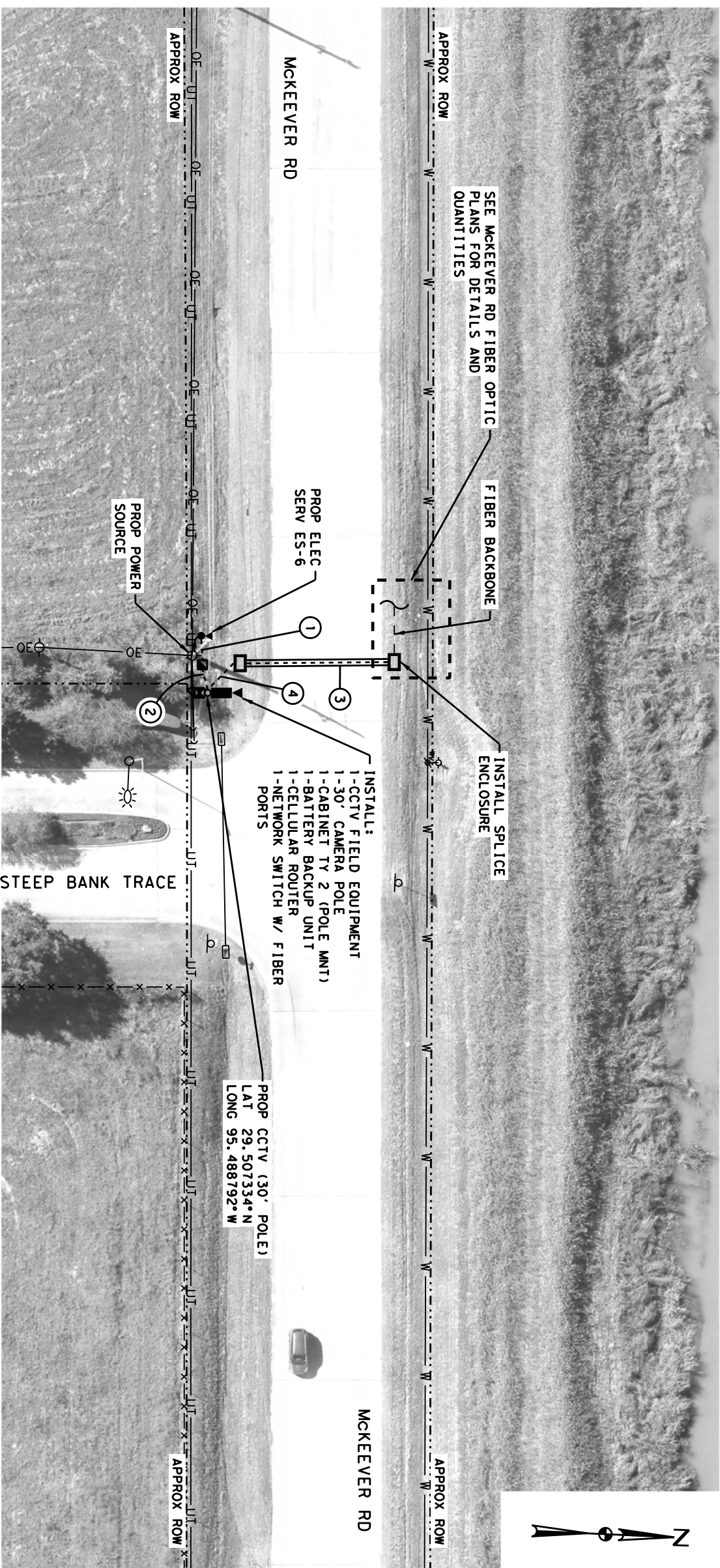
FORT BEND COUNTY

TBPE REG F-4779

EMERGENCY NETWORK INFRASTRUCTURE MONITORING SYSTEM

CCTV SITE LAYOUT MCKEEVER ROAD AT KNIGHT ROAD

DESIGNED: OMN	SCALE: 1"=40'
CHECKED: PAR	DATE: 12/6/2022
APPROVED: DEH	SHEET NO: 06



QUANTITIES (THIS SHEET ONLY)			
ITEM-CODE	DESCRIPTION	UNIT	SHEET TOTAL
416 6004	DRILL SHAFT (36 IN)	LF	18
618 6023	COND (PVC) (SCH 40) (2")	LF	35
618 6047	COND (PVC) (SCH 80) (2") (BORE)	LF	50
620 6002	ELEC CONDR (NO. 14) INSULATED	LF	65
620 6007	ELEC CONDR (NO. 8) BARE	LF	20
620 6008	ELEC CONDR (NO. 8) INSULATED	LF	40
624 6002	GROUND BOX TY A (122311)W/APRON	EA	1
628 6152	ELC SRV TY D 120/240 060(NS)SS(N)SP(O)	EA	1
6007 6010	FIBER OPTIC CBL (SINGLE-MODE) (6 FIBER)	LF	90
6010 6011	CCTV FIELD EQUIP (DIGITAL) (INSTL ONLY)	EA	1
6064 6011	ITS POLE (30 FT) (110 MPH)	EA	1
6064 6085	ITS POLE MNT CAB (TY 2) (CONF 2) (INS)	EA	1
6094 6011	SPICE ENCLOSURE	EA	1
6186 6006	ITS GND BOX (PCAST) TY 1 (243660) W / APRN	EA	1
	BATTERY BACKUP UNIT	EA	1
	CELLULAR ROUTER	EA	1
	NETWORK SWITCH W/ FIBER PORTS	EA	1

CONDUIT AND CABLE SCHEDULE														
RUN NO.	CONDUIT STATUS	CONDUIT			CABLE							RUN LENGTH		
		618 6023	618 6047		620 6002	620 6007	620 6008	6007 6010						
1	1	10	1	0	1	0		10	1	20	2	0	10	
2	1	10	1	0	1	0		10	1	20	2	0	10	
3	1	0		50	1	1	50	1	0			65	1	50
4	1	15	1	0		1	15	1	0	0		25	1	15
TOTAL		35		50			65		20		40		90	

STATUS: E = EXISTING; I = INSTALL

UTILITY NOTES:

1. THE CONTRACTOR SHALL LOCATE ALL UTILITIES PRIOR TO COMMENCING WORK. THE CONTRACTOR SHALL CONTACT PUBLIC AND PRIVATE UTILITIES FOR LOCATION OF UNDERGROUND FACILITIES AT LEAST 48 HOURS PRIOR TO ANY DRILLING, BORING, TRENCHING, OR EXCAVATING.
2. THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR ANY DAMAGE CAUSED BY THE CONTRACTOR'S FAILURE TO LOCATE AND PRESERVE THESE UTILITIES, WHETHER UNDERGROUND, ABOVE GROUND, OR OVERHEAD.

LEGEND:

- | | |
|---|------------------------------------|
|  | PROP CCIV W/
CABINET (30' POLE) |
|  | PROP ELECTRICAL SERVICE |
|  | PROP GROUND BOX TY A
WITH APRON |
|  | PROP GROUND BOX TY 1
WITH APRON |
|  | PROP CONDUIT (TRENCH) |
|  | PROP CONDUIT (BORE) |
|  | RUN NUMBER |
|  | OVERHEAD ELECTRICAL |
|  | FIBER OPTIC |
|  | UNDERGROUND TELEPHONE |
|  | GAS |
|  | WATER |



NO.	DATE	REVISION
		BY

**SUBMITTED FOR INTERIM REVIEW
UNDER THE AUTHORITY OF:**

QUAN M. NGUYEN, P.E.
TEXAS LICENSE NO. 111605
IT IS NOT TO BE USED FOR
CONSTRUCTION, BIDDING OR
PERMIT PURPOSES

12/6/2022

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TBPE REG F-4779

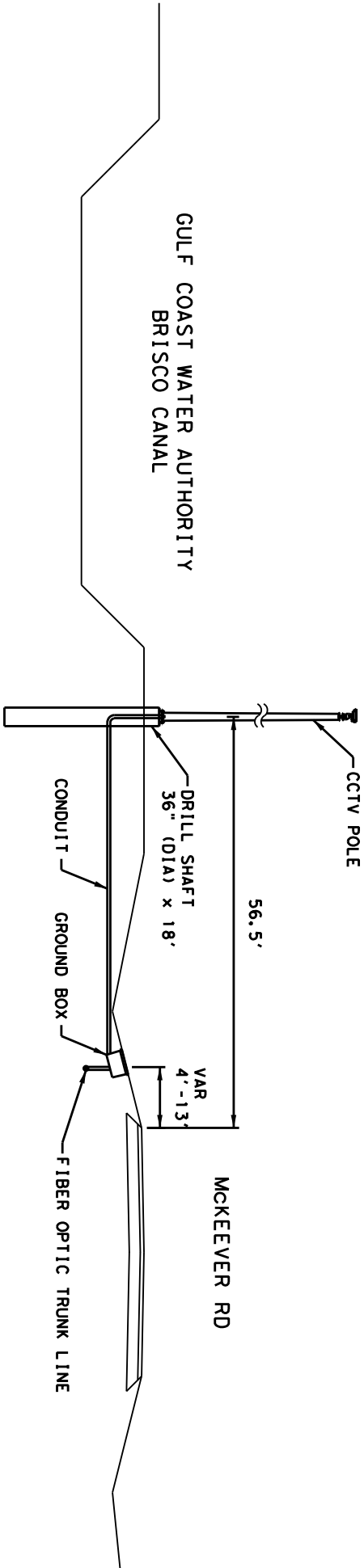


FORT BEND COUNTY

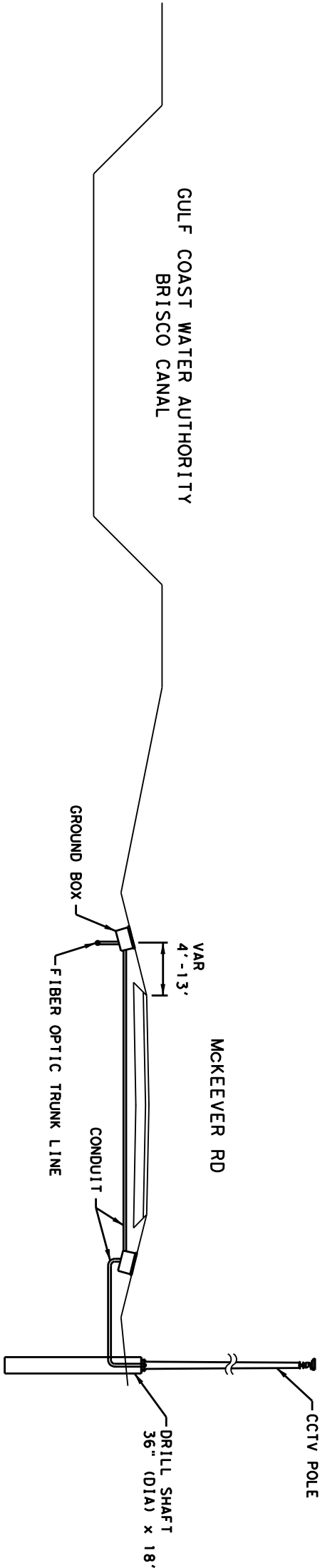
EMERGENCY NETWORK INFRASTRUCTURE MONITORING SYSTEM

CCTV SITE LAYOUT MCKEEVER ROAD AT STEEP BANK TRACE

DESIGNED: OMN	SCALE: 1"=40'
CHECKED: PAR	DATE: 12/6/2022
APPROVED: DEH	SHEET NO: 07



CCTV CROSS SECTION
MCKEEVER RD AT KNIGHT RD
LOOKING EAST (SCALE 1' : 20")



CCTV CROSS SECTION
MCKEEVER RD AT STEEP BANK TRACE
LOOKING EAST (SCALE 1' : 20")

NO.	DATE	REVISION	BY

SUBMITTED FOR INTERIM REVIEW
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12/6/2022

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TBPE REC F-4779



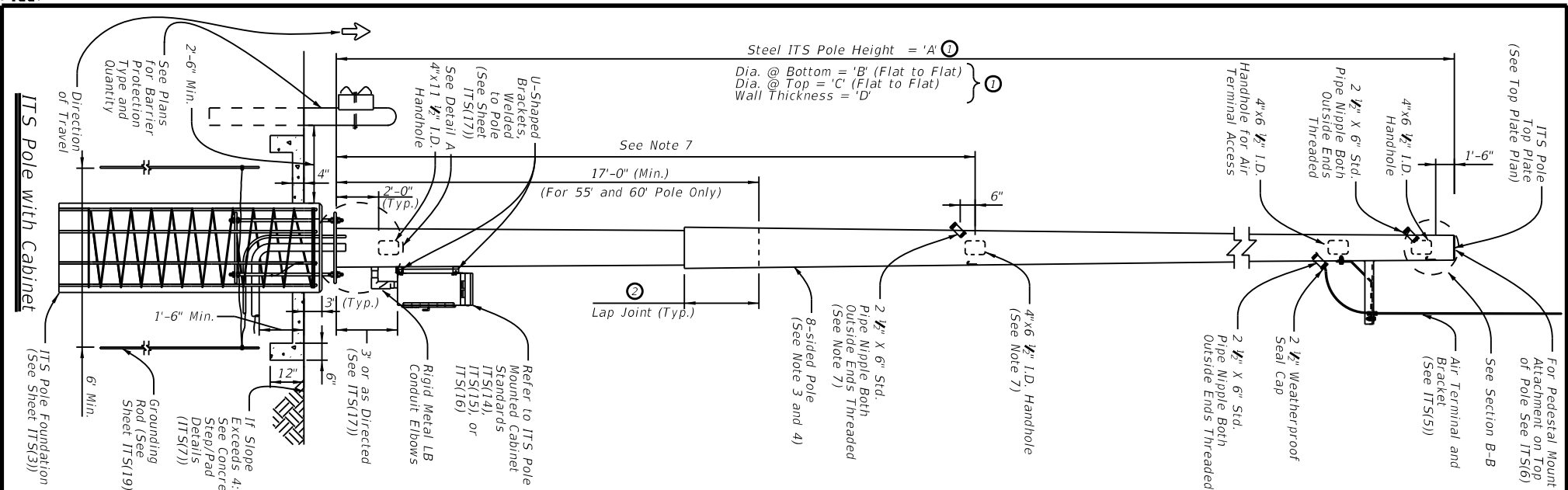
FORT BEND COUNTY

EMERGENCY NETWORK INFRASTRUCTURE
MONITORING SYSTEM

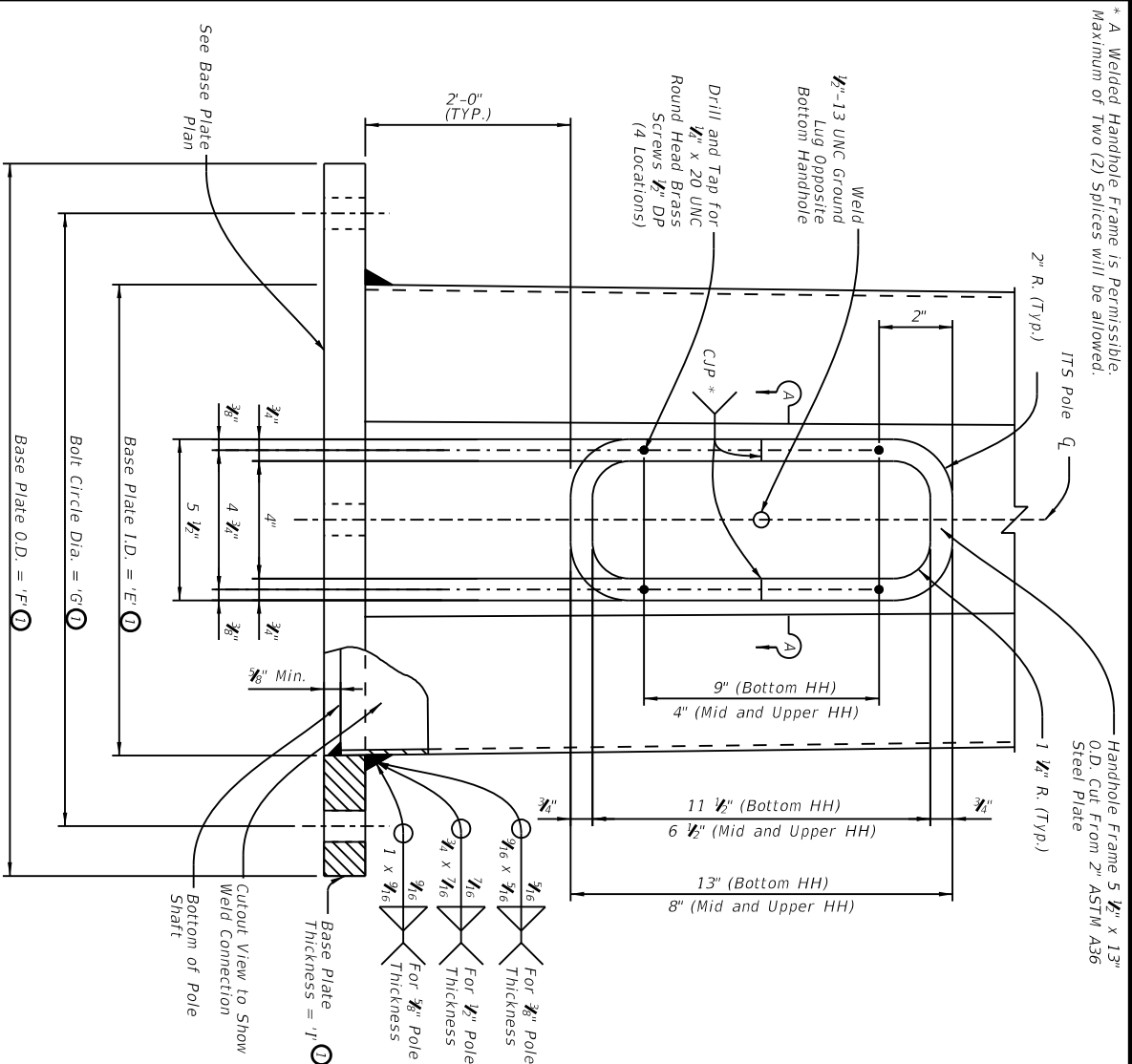
GULF COAST WATER AUTHORITY
MCKEEVER ROAD
CROSS SECTIONS

DESIGNED: OMN	SCALE:
CHECKED: PAR	DATE: 12/6/2022
APPROVED: DEH	SHEET NO: 08

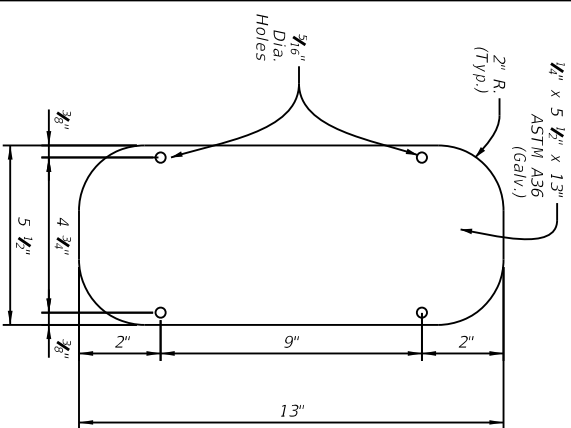
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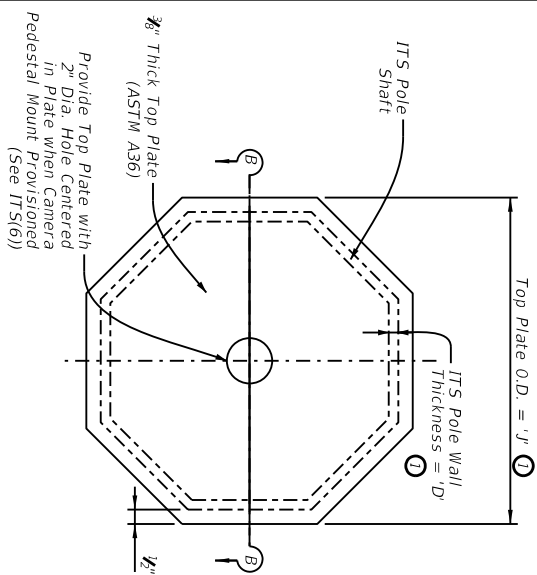
* A Welded Handhole Frame is Permissible
Maximum of Two (2) Splices will be allowed.



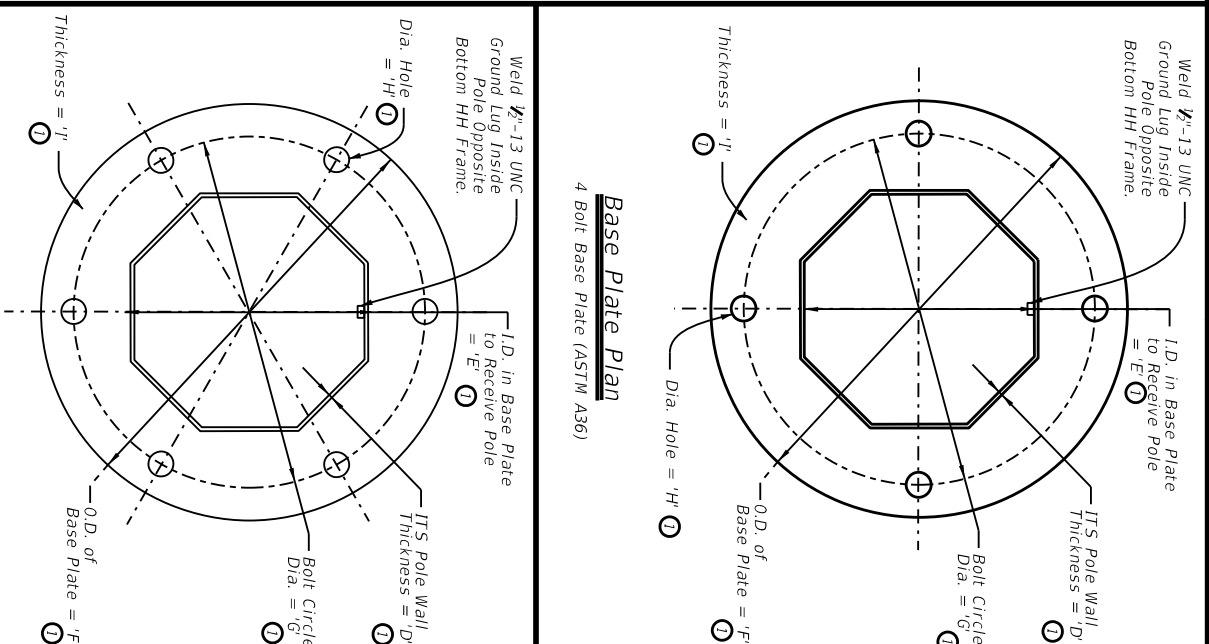
- Handhole Frame 5 1/2" x 13 O.D. Cut From 2" ASTM A36 Steel Plate



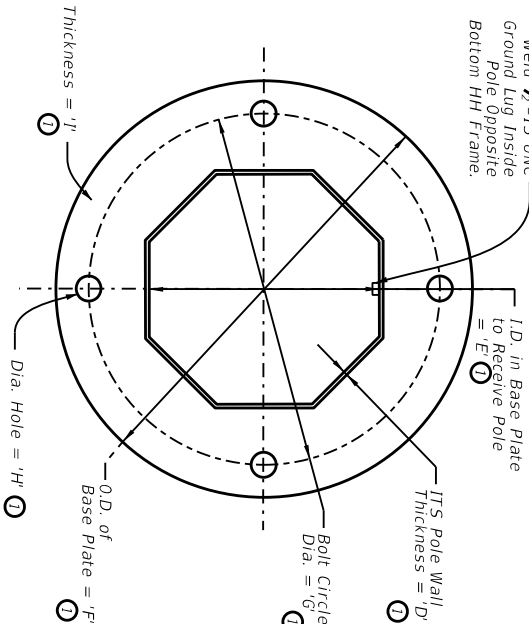
Handhole Cover Plate Detail
(Bottom Handhole)



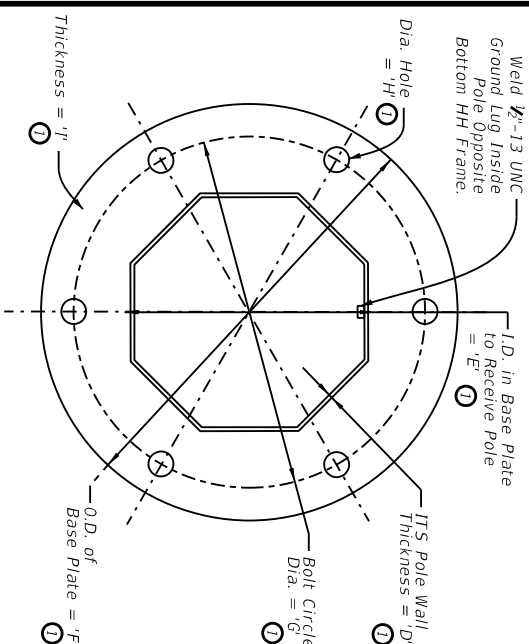
Top Plate Plan



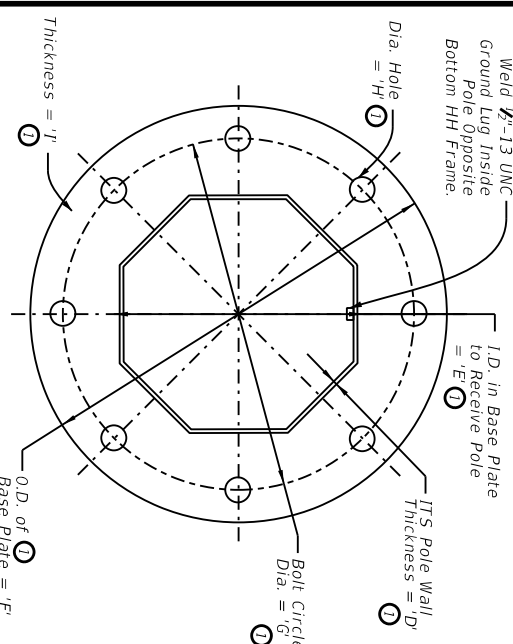
Base Plate Plan



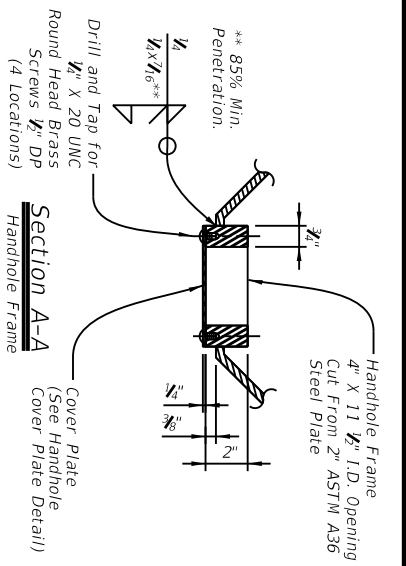
4 Bolt Base Plate (ASTM A36)



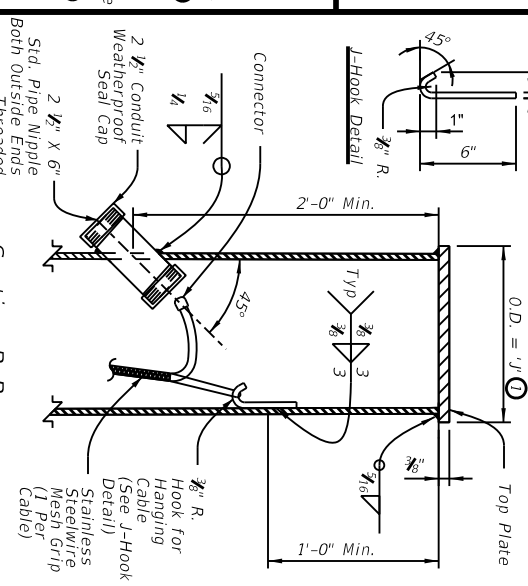
Base Plate Plan



Base Plate Plan



— Cover Plate
(See Handhole
Cover Plate Detail)



Section B-B

General Notes

1. Design according to Sixth Edition 2013 AASHTO Standard Specifications for Structural Supports for Highway Signs, Luminaires, and Traffic Signals and Interim Specifications.
2. Unless otherwise noted, all parts shall be galvanized after fabrication in accordance with Item 445, "Galvanizing."
3. Deviation from the design criteria, values, and dimensions shown hereafter for ITS-40 structures on these plans and the design shall require submission of shop drawings and calculations for approval, sealed by a Texas Professional Engineer.
4. Direct substitution of twelve sided or round poles, matching the design criteria, values, and dimensions shown herein, require submission of shop drawings for approval to confirm design criteria and values on ITS-40 is met.
5. Locate handholes opposite of the direction of travel.
6. Appropriate number of anchor bolts for base plate determined by height of pole. See T.L. on sheet ITS-41.
7. Location for ITS equipment mount may vary by device. Locate mid span handhole and pipe nipple to accommodate location for ITS equipment as identified in the plans or per manufacturer recommendations. Identify location for mid span handhole and pipe nipple on shop drawings for approval.

Reference Notes:

- ① See tables on Sheet ITS(4) for values of dimension variables.
- ② See lap joint note for 55' and 60' pole heights on ITS(4) at the bottom of each table.



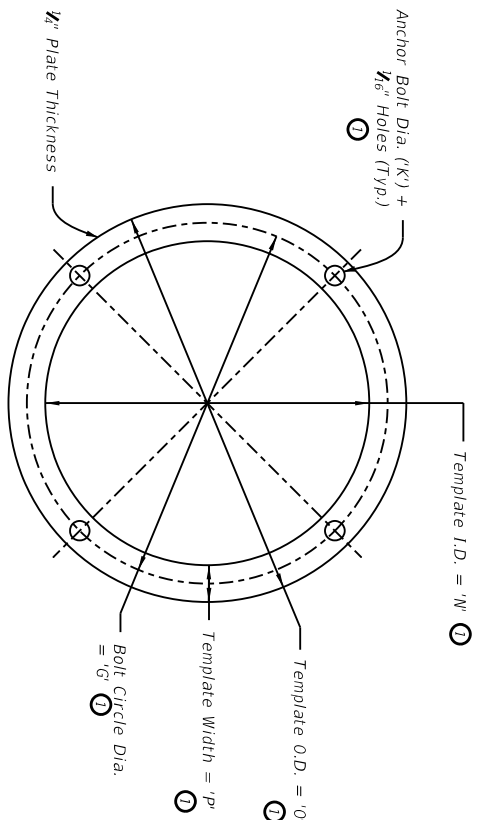
Texas Department of Transportation

ITS POLE DETAILS OCTAGONAL POLE (EIGHT SIDED POLE)

ITS(1)-15

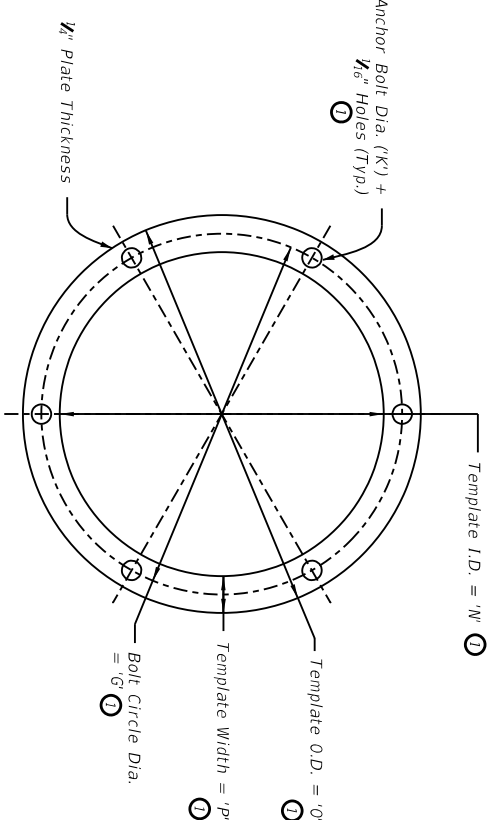
FILE: 17511-15.dgn	DR: TXDOT	CS: TXDOT	DR: TXDOT	CS: TXDOT
© TXDOT June 2015	CONT	SECT	JOB	HIGHWAY
REVISIONS				
	DIST		COUNTY	SHEET NO.
				45

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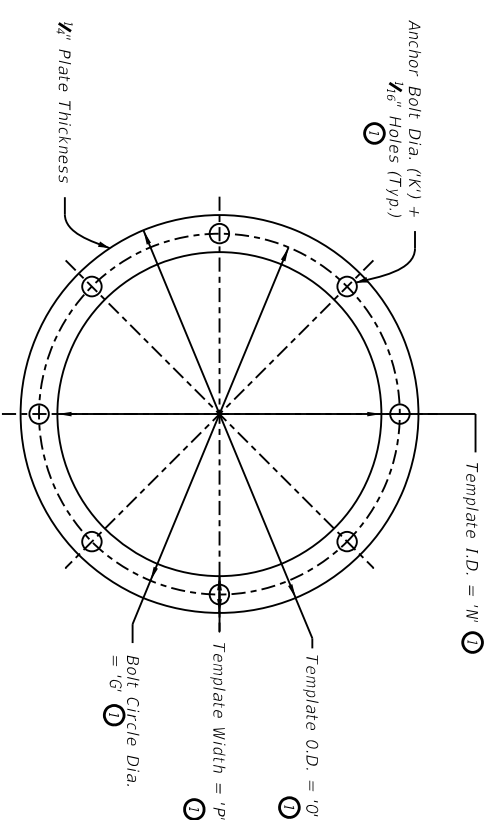
Top and Bottom Template (Four Bolt)

Detail A



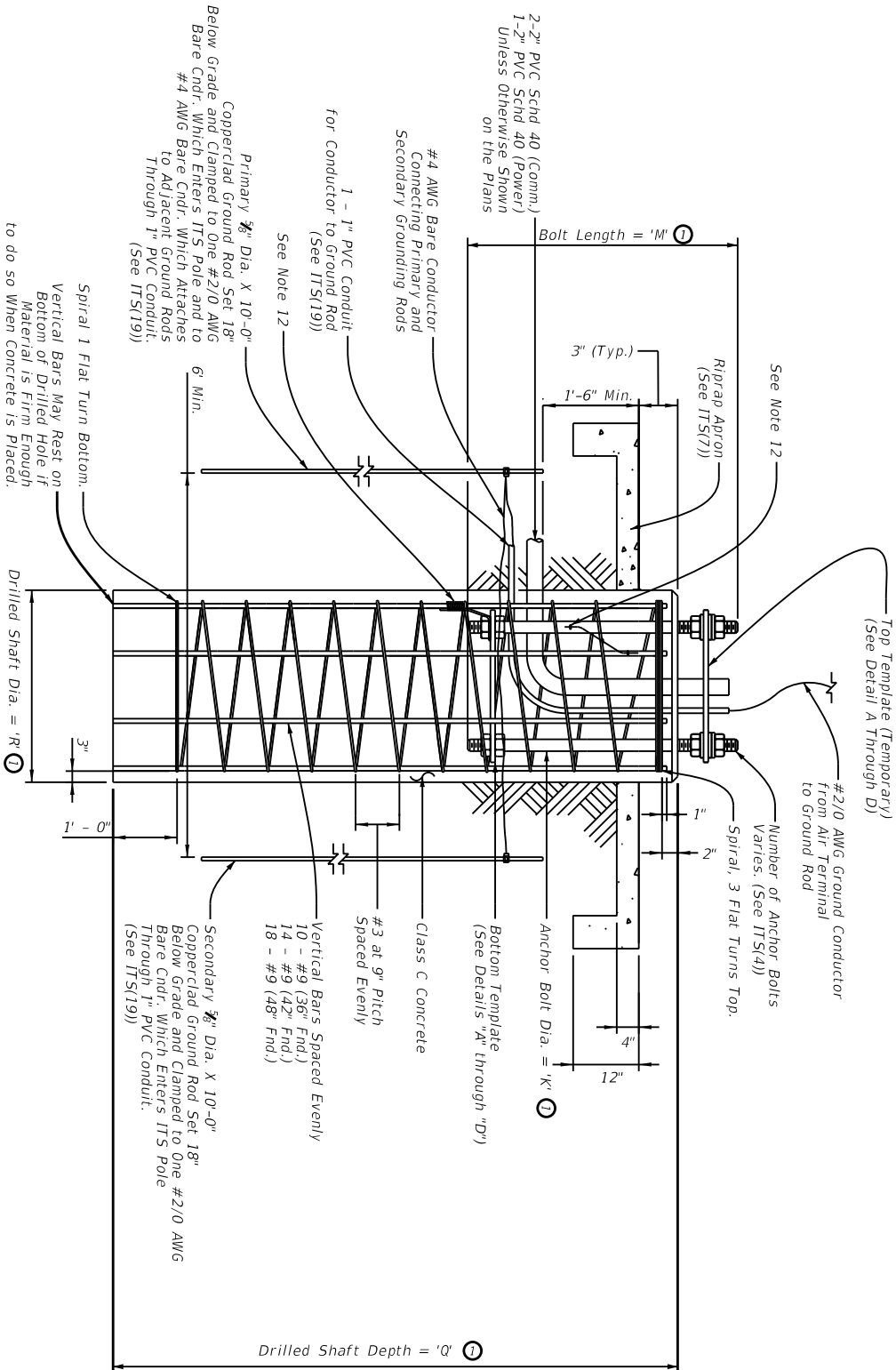
Top and Bottom Template (Six Bolt)

Detail B



Top and Bottom Template (Eight Bolt)

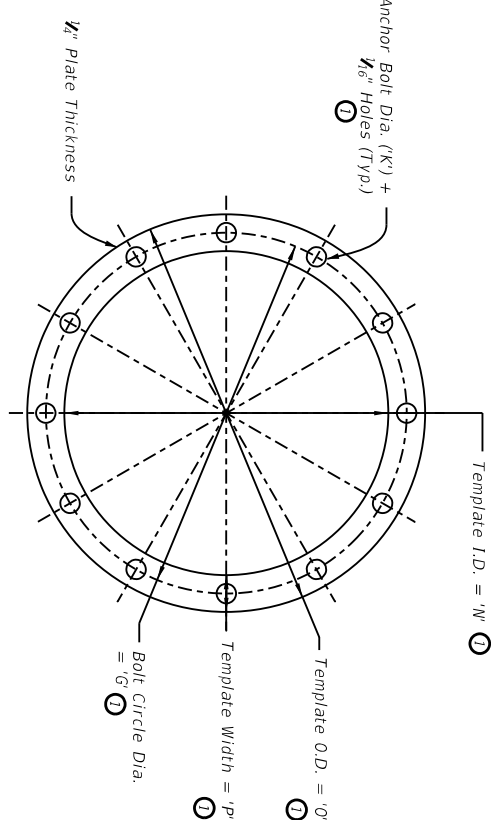
Detail C



Foundation Details (Typical)

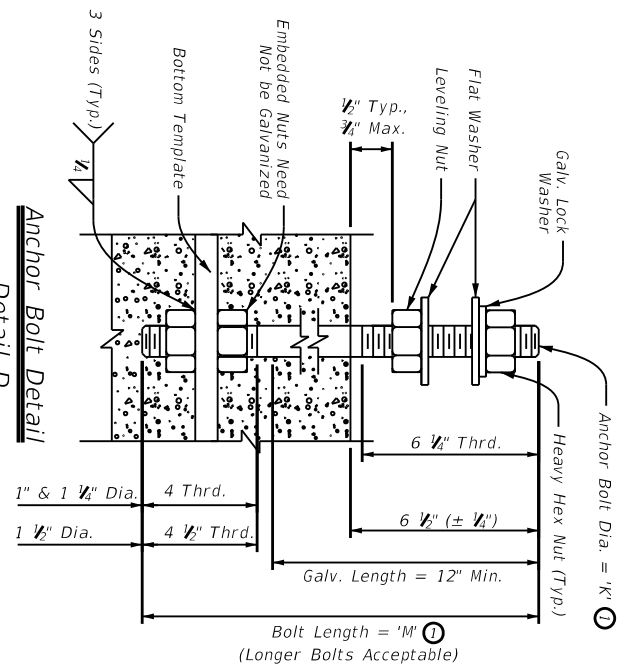
Elevation

Not to Scale



Top and Bottom Template (Twelve Bolt)

Detail D



Anchor Bolt Detail

Detail D

General Notes:

1. Drilled shaft concrete shall be Class "C" ($f'_{c} = 3600$ PSI) in accordance with Item 416, "Drilled Shaft Foundations".
2. Reinforcing bars shall be Grade 60 ($F_y = 60$ KSI) and conform to ASTM A-615. All reinforcing shall conform to Item 440, "Reinforcing Steel".
3. Provide ASTM A-36 steel for templates. Top and bottom templates need not be galvanized.
4. Anchor bolts shall be rigidly held in position during concrete placement using steel templates at the top and bottom. Top templates shall remain in place until the concrete has cured in place beyond initial set time.
5. Lubricate and tighten anchor bolts, when erecting pole, in accordance with Item 449, "Anchor Bolts."
6. Anchor bolts shall conform to ASTM F1554 Grade 55, or ASTM A193 B7 with ASTM A194 Grade 2H or A563 heavy hex nuts with F436 washers. Galvanize a minimum of the top end thread length plus 6 inches for all anchor bolts unless otherwise noted. Exposed washers and exposed nuts shall be galvanized. All galvanizing shall be in accordance with Item 445, "Galvanizing".
7. All vertical reinforcement shall be carried to the bottom of the drilled shaft.
8. Place three flat turns of the spiral bar at the top and one flat turn at the bottom of the drilled shaft.
9. Drilled shaft shall be measured by the linear foot and paid under Item 416, "Drill Shaft Foundations."
10. If rock is encountered, the drilled shaft to extend a minimum of two diameters into solid rock.
11. Location for conduit entering foundation may vary. Orient conduit entering foundation to coincide with location of ground boxes and primary ground rod.
12. Bond anchor bolts to rebar with #2/0 AWG jumper bar on bottom template as shown and wire tightly with ten turns of No. 10 wire or one mechanical connector. Mechanical connectors shall be UL Listed for concrete encasement.

Reference Notes:

1. See tables on Sheet ITS(4) for values of dimension variables.

ITS POLE FOUNDATION DETAILS

ITS(3) - 16

File:	ITS(3) - 16.dgn	On:	1X001	Cs:	1X001	On:	1X001	Cs:	1X001
©	TxDOT	June 2015	CMF	SECT	JOB		HIGHWAY		
REVISIONS									
Apr 11 2016			DIST		COUNTY			SHEET NO.	46

TABLE 1: ITS POLE – 90 MPH (W/ 2 SOLAR PANELS) ④

POLE TYPE ①	POLE HEIGHT (FT)	POLE SHAFT ① ②				BASE PLATE ①			TOP PLATE ②			ANCHOR BOLT ③				FOUNDATION ③				
		BOTTOM OUTSIDE DIA. (IN)	TOP OUTSIDE DIA. (IN)	WALL THICK NESS (IN)	INSIDE DIA. (IN)	OUTSIDE DIA. (IN)	BOLT CIRCLE DIA. (IN)	BOLT HOLE DIA. (IN)	THICK NESS (IN)	OUTSIDE DIA. (IN)	DIA. (IN)	NO. OF BOLTS	LENGTH OF BOLT MIN. (IN)	TEMPLATE INSIDE DIA. (IN)	TEMPLATE OUTSIDE DIA. (IN)	TEMPLATE WIDTH (IN)	DRILL SHAFT DEPTH – TEXAS CONE PENETROMETER (N – BLOWS/FT.) (SEE NOTE 5)			
																	N = 10	N = 15	N = 40	
8 SIDED	'A'	'B'	'C'	'D'	'E'	'F'	'G'	'H'	'I'	'J'	'K'	'L'	'M'	'N'	'O'	'P'				'R'
	20	10	8	1/2	10-1/16	21	16	1-1/4	1-1/2	9	1	4	29	14	18	2	12	11	10	36
	30	13	9	1/2	13-1/16	24	19	1-9/16	1-1/2	10	1-1/4	4	35	16-1/2	21-1/2	2-1/2	15	13	10	36
	40	15	9	1/2	15-1/16	26	21	1-9/16	1-1/2	10	1-1/4	6	35	18-1/2	23-1/2	2-1/2	17	14	11	42
	45	16	10	1/2	16-1/16	27	22	1-9/16	1-1/2	11	1-1/4	6	35	19-1/2	24-1/2	2-1/2	18	16	12	42
	50	17	10	1/2	17-1/16	28	23	1-9/16	1-1/2	11	1-1/4	6	35	20-1/2	25-1/2	2-1/2	19	16	12	42
	55 ⑦	19	11	5/8	19-1/16	30	25	1-13/16	2	12	1-1/2	6	40	22	28	3	21	18	13	42
	60 ⑦	20	11	5/8	20-1/16	31	26	1-13/16	2	12	1-1/2	6	40	23	29	3	21	19	14	48

TABLE 2: ITS POLE – 110 MPH (W/ 2 SOLAR PANELS) ④

POLE TYPE ①	POLE HEIGHT (FT)	POLE SHAFT ① ②				BASE PLATE ①			TOP PLATE ②		ANCHOR BOLT ③					FOUNDATION ③					
		BOTTOM OUTSIDE DIA. (IN)	TOP OUTSIDE DIA. (IN)	WALL THICKNESS (IN)	INSIDE DIA. (IN)	OUTSIDE DIA. (IN)	BOLT CIRCLE DIA. (IN)	BOLT HOLE DIA. (IN)	THICKNESS (IN)	OUTSIDE DIA. (IN)	DIA. (IN)	NO. OF BOLTS	LENGTH OF BOLT MIN. (IN)	TEMPLATE INSIDE DIA. (IN)	TEMPLATE OUTSIDE DIA. (IN)	TEMPLATE WIDTH (IN)	DRILL SHAFT DEPTH - TEXAS CONE PENETROMETER (N - BLOWS/FT.) (SEE NOTE 5)	③			
																		'A'	'B'	'C'	'D'
8 SIDED		20	10	8	1/2	10-1/16	21	16	1-1/4	1-1/2	9	1	4	29	14	18	2	14	12	10	36
		30	13	9	1/2	13-1/16	24	19	1-9/16	1-3/4	10	1-1/4	6	35	16-1/2	21-1/2	2-1/2	18	15	11	36
		40	15	9	1/2	15-1/16	25	21	1-9/16	1-3/4	10	1-1/4	6	35	18-1/2	23-1/2	2-1/2	20	17	12	42
		45	16	10	1/2	17-1/16	27	22	1-9/16	1-3/4	11	1-1/4	8	35	19-1/2	24-1/2	2-1/2	21	18	13	42
		50	17	10	1/2	18-1/16	28	23	1-9/16	1-3/4	11	1-1/4	8	35	20-1/2	25-1/2	2-1/2	22	19	14	42
	55 ⑦	19	11	5/8	19-1/16	30	25	1-9/16	2	12	1-1/4	8	35	22-1/2	27-1/2	2-1/2	24	20	14	42	42
	60 ⑦	20	11	5/8	20-1/16	31	26	1-13/16	2	12	1-1/2	6	40	23	29	3	25	21	15	48	

TABLE 3: ITS POLE – 130 MPH (W/ 1 SOLAR PANEL) ⑤

POLE TYPE ①	POLE HEIGHT (FT)	POLE SHAFT ① ②				BASE PLATE ①			TOP PLATE ②		ANCHOR BOLT ③				FOUNDATION ③					
		BOTTOM OUTSIDE DIA. (IN)	TOP OUTSIDE DIA. (IN)	WALL THICK NESS (IN)	INSIDE DIA. (IN)	OUTSIDE DIA. (IN)	BOLT CIRCLE DIA. (IN)	BOLT HOLE DIA. (IN)	THICK NESS (IN)	OUTSIDE DIA. (IN)	DIA. (IN)	NO. OF BOLTS	LENGTH OF BOLT MIN. (IN)	TEMPLATE INSIDE DIA. (IN)	TEMPLATE OUTSIDE DIA. (IN)	TEMPLATE WIDTH (IN)	DRILL SHAFT DEPTH – TEXAS CONE PENETROMETER (N – BLOWS/FT.) (SEE NOTE 5)	DRILLED SHAFT DIA. (IN)		
	'A'	'B'	'C'	'D'	'E'	'F'	'G'	'H'	'I'	'J'	'K'	'L'	'M'	'N'	'O'	'P'	N = 10	N = 15	N = 40	'R'
8 SIDED	20	10	8	1/2	10-1/16	21	16	1-9/16	1-3/4	9	1-1/4	4	35	13-1/2	18-1/2	2-1/2	16	14	10	36
	30	13	9	1/2	15-1/16	24	19	1-9/16	1-3/4	10	1-1/4	6	35	16-1/2	21-1/2	2-1/2	18	16	11	36
	40	15	9	1/2	15-1/16	26	21	1-9/16	1-3/4	10	1-1/4	6	35	18-1/2	23-1/2	2-1/2	21	18	13	42
	45	16	10	1/2	16-1/16	27	22	1-9/16	1-3/4	11	1-1/4	8	35	19-1/2	24-1/2	2-1/2	23	19	14	42
	50	17	10	1/2	17-1/16	28	23	1-9/16	2	11	1-1/2	8	40	20	26	3	24	20	14	42
	55 ⑦	19	11	5/8	19-1/16	30	25	1-13/16	2	12	1-1/2	8	40	22	28	3	27	22	15	42
	60 ⑦	20	11	5/8	20-1/16	31	26	1-13/16	2	12	1-1/2	8	40	23	29	3	28	23	16	48
	8 SIDED																			

General Notes:

- Designed according to Sixth Edition 2013 AASHTO Standard Specifications for Structural Supports for Highway Signs, Luminaires, and Traffic Signals and Interim Specifications thereto.
- Table 1 and Table 4 design wind speed equals 90 MPH (3-Second Wind Gusts) with a 1.14 gust factor. A wind importance factor of 1.00 is applied to adjust the wind speed to a 50 year recurrence interval at 33 FT above the ground for Exposure C category in accordance with TxDOT WW&I2(LTS2013). Design values listed in the table allow the base of the pole to be elevated above the surrounding ground level no more than 20 FT.
- Table 2 and Table 5 design wind speed equals 110 MPH (3-Second Wind Gusts) with a 1.14 gust factor. A wind importance factor of 1.00 is applied to adjust the wind speed to a 50 year recurrence interval at 33 FT above the ground for Exposure C category in accordance with TxDOT WW&I2(LTS2013). Design values listed in the table allow the base of the pole to be elevated above the surrounding ground level no more than 20 FT.
- Table 3 and Table 6 design wind speed equals 130 MPH (3-Second Wind Gusts) with a 1.14 gust factor. A wind importance factor of 1.00 is applied to adjust the wind speed to a 50 year recurrence interval at 33 FT above the ground for Exposure C category in accordance with TxDOT WW&I2(LTS2013). Design values listed in the table allow the base of the pole to be elevated above the surrounding ground level no more than 20 FT.
- Recommended embedment lengths are for information purposes only. Foundation embedment depth is based off Texas Cone Penetrometer Value N = 10 blows/ft. for soft soils and up to 40 blows/ft. for hard soils. Foundation lengths shall be as shown on the plans, or as directed by the Engineer. Foundations will be paid for under Item 416, "Drilled Shaft Foundations" unless otherwise shown on the plans.

TABLE 4: ITS POLE WITH STIFFENERS – 90 MPH (W/ 4 SOLAR PANELS) ⑥

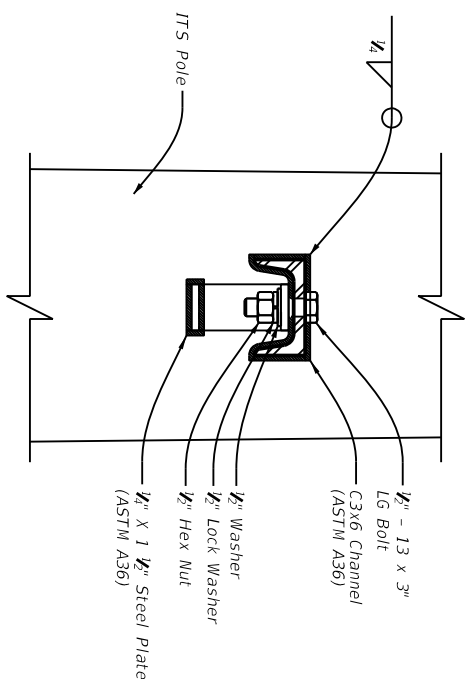
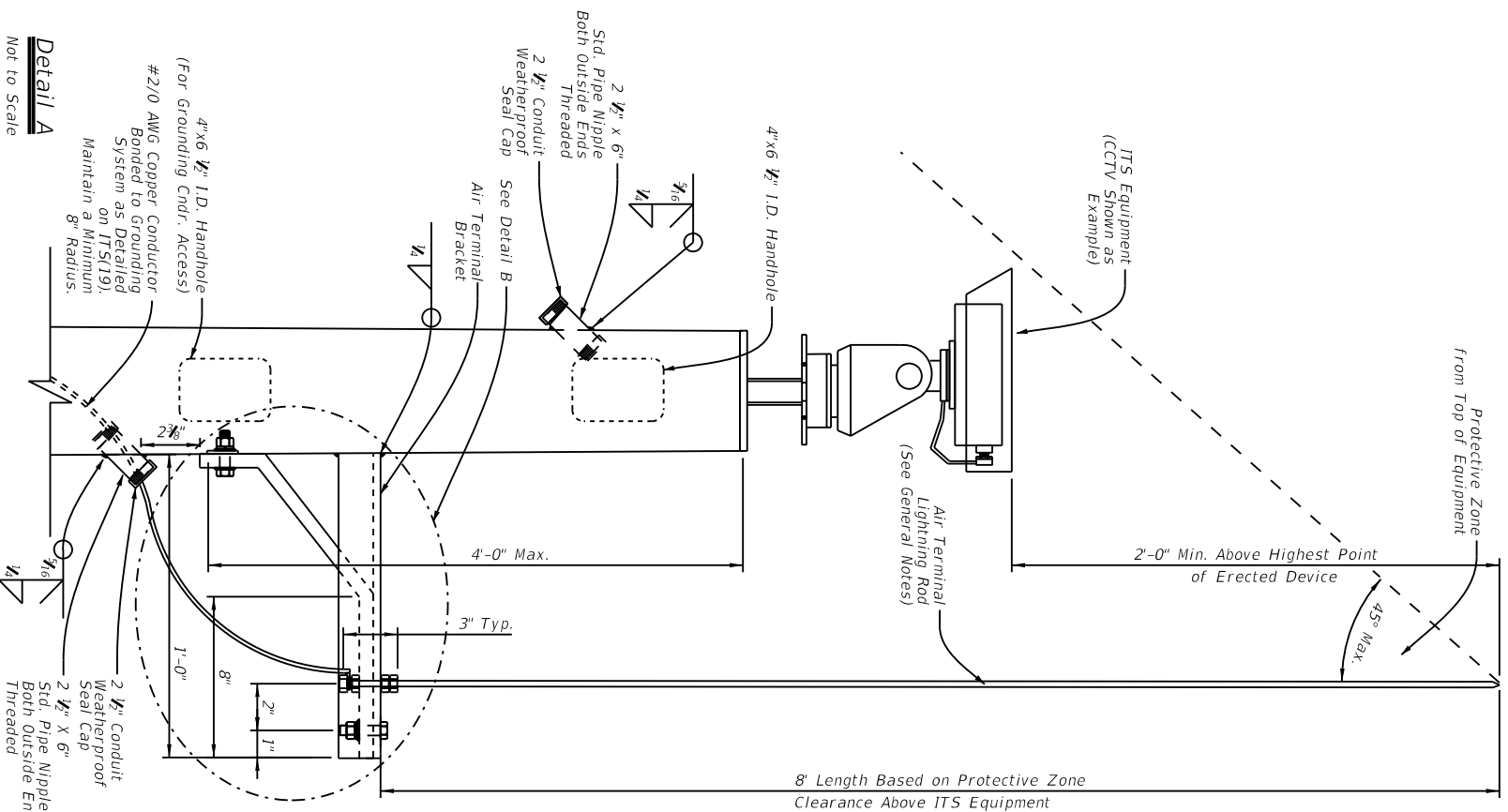
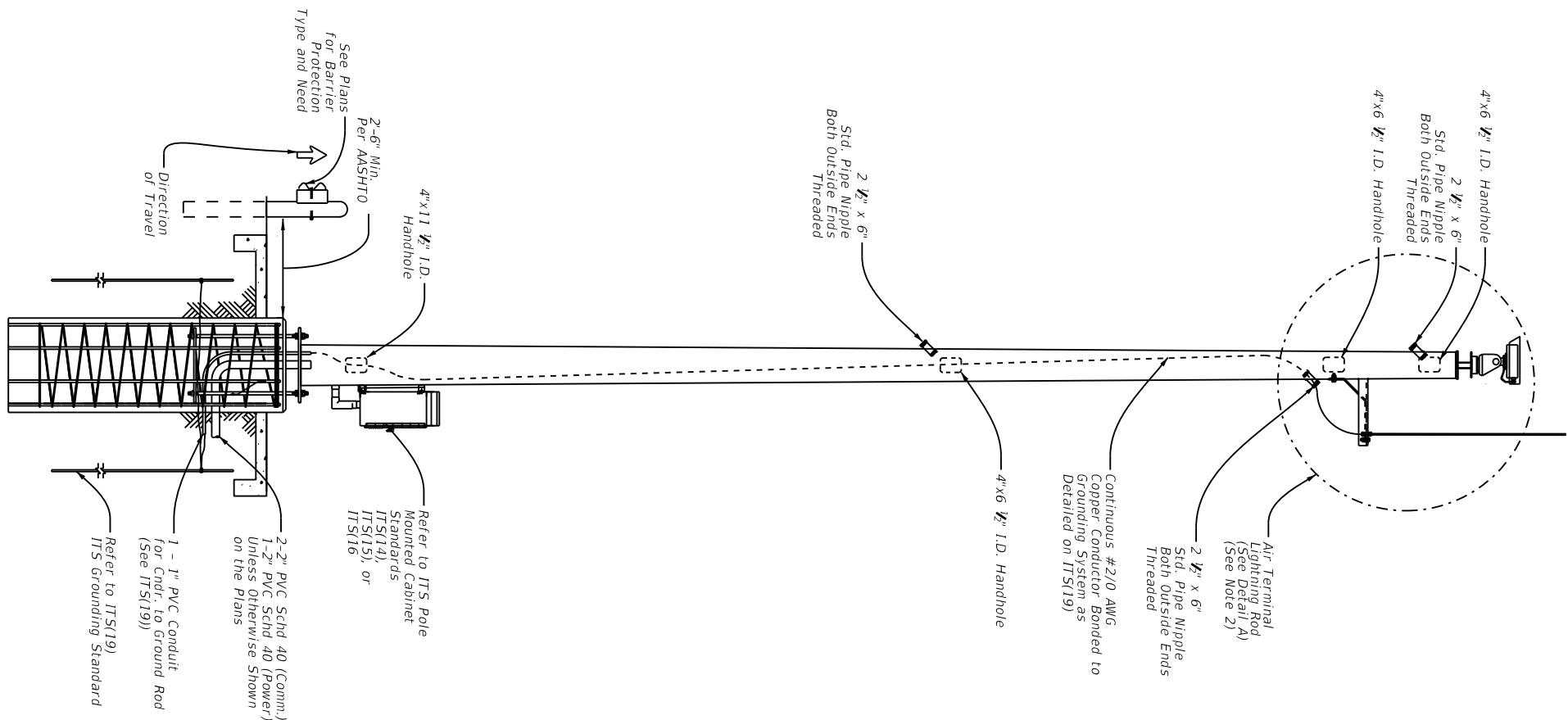
POLE TYPE ①	POLE HEIGHT (FT)	POLE SHAFT ①			BASE PLATE ①			TOP PLATE ②		ANCHOR BOLT ③					FOUNDATION ③						
		BOTTOM OUTSIDE DIA. (IN)	TOP OUTSIDE DIA. (IN)	WALL THICK NESS (IN)	INSIDE DIA. (IN)	OUTSIDE DIA. (IN)	BOLT CIRCLE DIA. (IN)	BOLT HOLE DIA. (IN)	THICK NESS (IN)	OUTSIDE DIA. (IN)	DIA. (IN)	NO. OF BOLTS	LENGTH OF BOLT MIN. (IN)	TEMPLATE INSIDE DIA. (IN)	TEMPLATE OUTSIDE DIA. (IN)	TEMPLATE WIDTH (IN)	DRILL SHAFT DEPTH - TEXAS CONE PENETROMETER (N - BLOWS/FT.) (SEE NOTE 5)				
																	N = 10	N = 15	N = 40		
	'A'	'B'	'C'	'D'	'E'	'F'	'G'	'H'	'I'	'J'	'K'	'L'	'W'	'N'	'O'	'P'		'Q'		'R'	
8 SIDED	30	13	9	3/8	13-1/16	28	22	1-1/4	1-3/4	10	1	8	29	20	24	2		17	15	11	42
	40	15	9	1/2	15-1/16	30	24	1-1/4	2	10	1	8	29	22	26	2		20	17	12	42
	45	16	10	1/2	16-1/16	31	25	1-9/16	2	11	1-1/4	8	35	22-1/2	27-1/2	2-1/2		21	18	13	42
	50	17	10	1/2	17-1/16	32	26	1-9/16	2	11	1-1/4	8	35	23-1/2	28-1/2	2-1/2		21	18	13	42
	55	19	11	5/8	19-1/16	34	27	1-9/16	2	12	1-1/4	12	35	24-1/2	29-1/2	2-1/2		21	18	13	48
12 SIDED	60	20	12	5/8	20-1/16	35	28	1-9/16	2	13	1-1/4	12	35	25-1/2	30-1/2	2-1/2		22	19	14	48

TABLE 5: ITS POLE WITH STIFFENERS – 110 MPH (W/ 4 SOLAR PANELS) ⑥

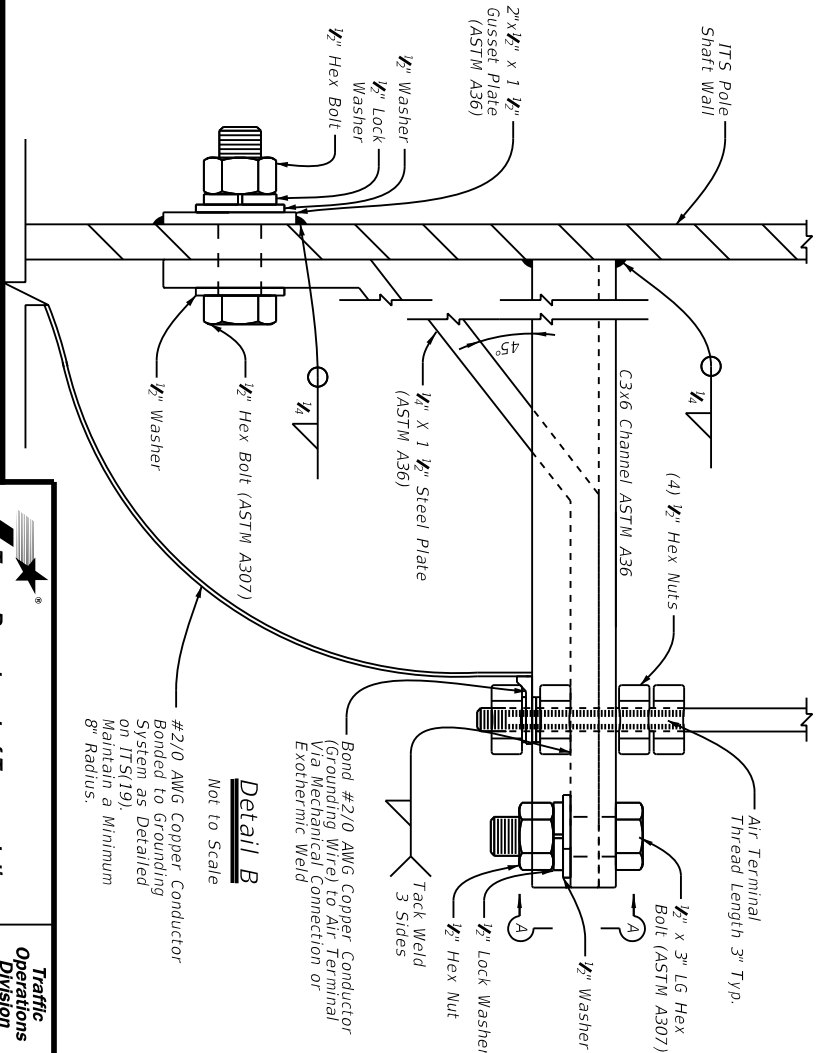
① POLE TYPE	POLE HEIGHT (FT)	POLE SHAFT ①			BASE PLATE ①				TOP PLATE ②		ANCHOR BOLT ③				FOUNDATION ③					
		BOTTOM OUTSIDE DIA. (IN)	TOP OUTSIDE DIA. (IN)	WALL THICK NESS (IN)	INSIDE DIA. (IN)	OUTSIDE DIA. (IN)	BOLT CIRCLE DIA. (IN)	BOLT HOLE DIA. (IN)	THICK NESS (IN)	OUTSIDE DIA. (IN)	DIA. (IN)	NO. OF BOLTS	LENGTH OF BOLT MIN. (IN)	TEMPLATE INSIDE DIA. (IN)	TEMPLATE OUTSIDE DIA. (IN)	TEMPLATE WIDTH (IN)	DRILL SHAFT DEPTH - TEXAS CONE PENETROMETER (N - BLOWS/FT.) (SEE NOTE 5)			
																	N = 10	N = 15	N = 40	
	'A'	'B'	'C'	'D'	'E'	'F'	'G'	'H'	'I'	'J'	'K'	'L'	'M'	'N'	'O'	'P'		'Q'		'R'
8 SIED	30	13	9	1/2	13-1/16	28	22	1-9/16	2-1/4	10	1-1/4	8	35	19-1/2	24-1/2	2-1/2	20	17	12	42
	40	16	10	1/2	16-1/16	31	25	1-9/16	2-1/4	11	1-1/4	8	35	22-1/2	27-1/2	2-1/2	24	20	14	42
	45	17	11	1/2	17-1/16	32	26	1-9/16	2-1/4	12	1-1/4	8	35	23-1/2	28-1/2	2-1/2	25	21	15	42
	50	18	11	1/2	18-1/16	32	26	1-13/16	2-1/2	12	1-1/2	8	40	23	29	3	25	21	15	48
	55	19	11	5/8	19-1/16	34	27	1-9/16	2-1/4	12	1-1/4	12	35	24-1/2	29-1/2	2-1/2	24	21	15	48
12 SIED	60	20	12	5/8	20-1/16	35	28	1-9/16	2-1/4	13	1-1/4	12	35	25-1/2	30-1/2	2-1/2	25	22	15	48

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DATE:
FILE:



Not to Scale



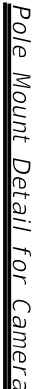
Texas Department of Transportation

ITS POLE AIR TERMINAL DETAILS

ITS(5)-15

File: 11S151-15.dgn June 2015 REVISIONS	DATE	1X201	CHK 1X201	DATE	1X201	CHK 1X201
	CONTRACT	SECT	JOB			
	DIST		COUNTY			SHEET NO. 48

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- General Notes:



Texas Department of Transportation