

SUBJECT: PLANS AND PROPOSAL ADDENDUMS

PROJECT: CM 2023(611)

CONTROL: 0092-02-137

COUNTY: DALLAS

LETTING: 04/04/2023

REFERENCE NO: 0327

PROPOSAL ADDENDUMS

- PROPOSAL COVER
- BID INSERTS (SH. NO.: 14)
- GENERAL NOTES (SH. NO.:)

- SPEC LIST (SH. NO.:)
- SPECIAL PROVISIONS:)
- ADDED:

- DELETED:

- SPECIAL SPECIFICATIONS:
- ADDED:

- DELETED:

- OTHER: plan sheet and other changes

DESCRIPTION OF ABOVE CHANGES
(INCLUDING PLANS SHEET CHANGES)

*****bid inserts*****
adjusted quantities for the following bid items:628-6151,6062-6042
added following missing bid items:624-6028,628-6002,6064-6019
*****plans sheets*****
Sheet 4,4a,5,5a,5b: updated bid items and quantities
Sheet 6a: updated sheet
Sheet 7: updated bid items 628-6002,628-6151,624-6028,6062-6042,6064-6019
Sheet 12: added bid item 628-6151
Sheet 17: added bid item 628-6151
Sheet 22: updated bid items 624-6028,628-6002,628-6151,6062-6042,6064-6019
Sheet 38: updated bid items 624-6028,628-6002,628-6151,6062-6042,6064-6019
Sheet 50: added bid item 6062-6042



Estimate & Quantity Sheet

CONTROLLING PROJECT ID 0092-02-137

DISTRICT Dallas
HIGHWAY IH 45, Various

COUNTY Dallas

CONTROL SECTION JOB				0092-02-137		0092-14-101		0918-00-352		TOTAL EST.	TOTAL FINAL
PROJECT ID				A00177073		A00177076		A00130452			
COUNTY				Dallas		Dallas		Dallas			
HIGHWAY				IH 45		IH 45		Various			
ALT	BID CODE	DESCRIPTION	UNIT	EST.	FINAL	EST.	FINAL	EST.	FINAL		
	416-6006	DRILL SHAFT (48 IN)	LF	189.000						189.000	
	432-6001	RIPRAP (CONC)(4 IN)	CY	11.250						11.250	
	500-6001	MOBILIZATION	LS	0.400		0.200		0.400		1.000	
	502-6001	BARRICADES, SIGNS AND TRAFFIC HANDLING	MO	7.000		2.000		7.000		16.000	
	506-6002	ROCK FILTER DAMS (INSTALL) (TY 2)	LF	285.000		20.000				305.000	
	506-6003	ROCK FILTER DAMS (INSTALL) (TY 3)	LF	190.000		225.000				415.000	
	506-6011	ROCK FILTER DAMS (REMOVE)	LF	475.000		245.000				720.000	
	506-6038	TEMP SEDMT CONT FENCE (INSTALL)	LF	830.000		460.000				1,290.000	
	506-6039	TEMP SEDMT CONT FENCE (REMOVE)	LF	830.000		460.000				1,290.000	
	506-6041	BIODEG EROSN CONT LOGS (INSTL) (12")	LF	200.000						200.000	
	506-6042	BIODEG EROSN CONT LOGS (INSTL) (18")	LF					50.000		50.000	
	506-6043	BIODEG EROSN CONT LOGS (REMOVE)	LF	200.000				50.000		250.000	
	618-6029	CONDT (PVC) (SCH 40) (3")	LF	47,727.000		2,442.000		185.000		50,354.000	
	618-6030	CONDT (PVC) (SCH 40) (3") (BORE)	LF	2,945.000		615.000				3,560.000	
	618-6074	CONDT (RM) (3")	LF	995.000						995.000	
	620-6007	ELEC CONDR (NO.8) BARE	LF	4,378.000						4,378.000	
	620-6008	ELEC CONDR (NO.8) INSULATED	LF	47,593.000		3,117.000				50,710.000	
	620-6009	ELEC CONDR (NO.6) BARE	LF					540.000		540.000	
	620-6010	ELEC CONDR (NO.6) INSULATED	LF	8,358.000				1,362.000		9,720.000	
	620-6011	ELEC CONDR (NO.4) BARE	LF					1,673.000		1,673.000	
	620-6012	ELEC CONDR (NO.4) INSULATED	LF					5,637.000		5,637.000	
	624-6010	GROUND BOX TY D (162922)W/APRON	EA	10.000				3.000		13.000	
	624-6028	REMOVE GROUND BOX	EA	3.000						3.000	
	628-6002	REMOVE ELECTRICAL SERVICES	EA	3.000						3.000	
	628-6151	ELC SRV TY D 120/240 060(NS)SS(N)PS(U)	EA	9.000						9.000	
	6000-6098	INSTALL CIRCUIT BREAKER	EA	4.000						4.000	
	6001-6001	PORTABLE CHANGEABLE MESSAGE SIGN	DAY	10.000		5.000		2.000		17.000	
	6007-6010	FIBER OPTIC CBL (SNGLE-MODE)(6 FIBER)	LF	1,715.000						1,715.000	
	6007-6013	FIBER OPTIC CBL (SNGLE-MODE)(36 FIBER)	LF	47,190.000		3,237.000				50,427.000	
	6007-6014	FIBER OPTIC CBL (SNGLE-MODE)(48 FIBER)	LF	52,262.000		3,237.000				55,499.000	
	6007-6095	FIBER OPTIC PATCH PANEL (6 POSITION)	EA	9.000						9.000	
	6007-6098	FIBER OPTIC PATCH PANEL (36 POSITION)	EA			1.000				1.000	
	6007-6099	FIBER OPTIC PATCH PANEL (48 POSITION)	EA			1.000				1.000	
	6007-6101	FIBER OPTIC PATCH PANEL (96 POSITION)	EA	9.000						9.000	
	6007-6102	RELOCATE FIBER OPTIC CABLE	LF					285.000		285.000	
	6008-6027	ITS GRND MNT CAB (TY 4) (CONF 2)	EA	9.000						9.000	
	6010-6002	CCTV FIELD EQUIPMENT (DIGITAL)	EA	6.000						6.000	

1 ADDENDUM #1, 3/23/2023, REPLACE SHEET



Estimate & Quantity Sheet

CONTROLLING PROJECT ID 0092-02-137

DISTRICT Dallas
HIGHWAY IH 45, Various

COUNTY Dallas

CONTROL SECTION JOB				0092-02-137		0092-14-101		0918-00-352		TOTAL EST.	TOTAL FINAL
PROJECT ID				A00177073		A00177076		A00130452			
COUNTY				Dallas		Dallas		Dallas			
HIGHWAY				IH 45		IH 45		Various			
ALT	BID CODE	DESCRIPTION	UNIT	EST.	FINAL	EST.	FINAL	EST.	FINAL		
	6010-6004	CCTV MOUNT (POLE)	EA	6.000						6.000	
	6016-6006	ITS MULTI-DUCT CND (PVC-40)	LF	45,640.000		2,306.000				47,946.000	
	6016-6007	ITS MULTI-DUCT CND (PVC-40)(BORE)	LF	2,239.000		615.000				2,854.000	
	6016-6013	ITS MULTI-DUCT CND (RMC)	LF	995.000						995.000	
	6027-6003	CONDUIT (PREPARE)	LF					3,503.000		3,503.000	
	6027-6008	GROUND BOX (PREPARE)	EA					18.000		18.000	
	6028-6002	INSTALL DMS (FOUNDATION MTD CABINET)	EA					8.000		8.000	
	6062-6042	RELOCATE ITS RADIO	EA	4.000						4.000	
	6064-6019	ITS POLE (40 FT)(90 MPH)	EA	3.000						3.000	
	6064-6055	ITS POLE (60 FT)(90 MPH)	EA	6.000						6.000	
	6064-6088	ITS POLE MNT CAB (TY 3)(CONF 1)	EA	9.000						9.000	
	6093-6010	REMOVE EXIST FIB OPT DMS SYS(TY-2)	EA					8.000		8.000	
	6185-6002	TMA (STATIONARY)	DAY	20.000		5.000		5.000		30.000	
	6186-6006	ITS GND BOX(PCAST) TY 1 (243660)W/APRN	EA	64.000		7.000				71.000	
	6186-6012	ITS GND BOX(PCAST) TY 2 (366060)W/APRN	EA	14.000						14.000	
	6304-6002	ITS RVSD (DATA COLLECT & WWA) SYS	EA	9.000						9.000	
	04	PRIMARY LINE EXTENSION, CONNECTION: PUBLIC UTILITY FORCE ACCOUNT (NON-PARTICIPATING)	LS	1.000						1.000	
	06	MATERIAL FURNISHED BY STATE (PARTICIPATING)	LS	1.000		1.000		1.000		3.000	
	12	RAILROAD FORCE ACCOUNT WORK (PARTICIPATING)	LS	1.000						1.000	
	18	EROSION CONTROL MAINTENANCE: CONTRACTOR FORCE ACCOUNT WORK (PART)	LS	1.000		1.000		1.000		3.000	
		SAFETY CONTINGENCY: CONTRACTOR FORCE ACCOUNT WORK (PARTICIPATING)	LS	1.000		1.000		1.000		3.000	
		LAW ENFORCEMENT: CONTRACTOR FORCE ACCOUNT WORK (PARTICIPATING)	LS	1.000		1.000		1.000		3.000	

1 ADDENDUM #1, 3/23/2023, REPLACE SHEET


DATE: 3/24/2023
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ITS SUMMARY - CSJ:0092-02-137

ITEM	CODE	DESCRIPTION	UNIT	SHEET 35	SHEET 36	SHEET 37	SHEET 38	SHEET 39	SHEET 40	SHEET 41	SHEET 42	TOTAL
416	6006	DRILL SHAFT (48 IN)	LF			21			21			189
432	6001	RIPRAP (CONC) (4IN)	CY			1.25			1.25			11.25
618	6029	CONDT (PVC) (SCH 40) (3")	LF	1056	1046	2051	1320	1002	1282	888	487	47727
618	6030	CONDT (PVC) (SCH 40) (3") (BORE)	LF	36	44	133		120	132	204	15	2945
618	6074	CONDT (RM) (3")	LF									995
620	6007	ELEC CONDR (NO. 8) BARE	LF			904			204			4378
620	6008	ELEC CONDR (NO. 8) INSULATED	LF	1107	1105	1223	1335	1137	1147	1112	512	47593
620	6010	ELEC CONDR (NO. 6) INSULATED	LF			1410			408			8358
624	6010	GROUND BOX TY D (162922) W/APRON	EA						1			10
624	6028	REMOVE GROUND BOX	EA									3
628	6002	REMOVE ELECTRICAL SERVICES	EA									3
628	6151	ELC SRV TY D 120/240 060 (NS) SS(N)PS(U)	EA			1			1			9
6007	6010	FIBER OPTIC CBL (SNGLE-MODE) (6 FIBER)	LF			445			118			1715
6007	6013	FIBER OPTIC CBL (SNGLE-MODE) (36 FIBER)	LF	1137	1135	1151	1365	1167	1142	1152	45	47190
6007	6014	FIBER OPTIC CBL (SNGLE-MODE) (48 FIBER)	LF	1137	1135	2211	1365	1167	1418	1152	532	52262
6007	6095	FIBER OPTIC PATCH PANEL (6 POSITION)	EA			1			1			9
6007	6101	FIBER OPTIC PATCH PANEL (96 POSITION)	EA			1			1			9
6008	6027	ITS GRND MNT CAB (TY 4) (CONF 2)	EA			1			1			9
6010	6002	CCTV FIELD EQUIPMENT (DIGITAL)	EA			1			1			6
6010	6004	CCTV MOUNT (POLE)	EA			1			1			6
6016	6006	ITS MULTI-DUCT CND (PVC-40)	LF	1056	1046	1406	1320	1002	1102	888	487	45640
6016	6007	ITS MULTI-DUCT CND (PVC-40) (BORE)	LF	36	44	78		120		204	15	2239
6016	6013	ITS MULTI-DUCT CND (RMC)	LF									995
6062	6042	RELOCATE ITS RADIO	EA									3
6064	6019	ITS POLE (40 FT) (90 MPH)	EA									3
6064	6055	ITS POLE (60 FT) (90 MPH)	EA			1			1			6
6064	6088	ITS POLE MNT CAB (TY 3) (CONF 1)	EA			1			1			9
6186	6006	ITS GND BOX (PCAST) TY 1 W/ APRON	EA	2	1	2	2	1	2	1	1	64
6186	6012	ITS GND BOX (PCAST) TY 2 W/ APRON	EA			1			1			14
6304	6002	ITS RVSD (DATA COLLECT & WWA) SYS	EA			1			1			9
	**	ETHERNET SWITCH W/ POWER SUPPLY	EA			2			2			18
	**	RS-237/RS-422 TERMINAL SERVER	EA			1			1			9
	**	PORT EXPANDER	EA			1			1			9

ITS SUMMARY - CSJ:0092-14-101

ITEM	CODE	DESCRIPTION	UNIT	SHEET 42	SHEET 43	SHEET 44	TOTAL
618	6029	CONDT (PVC) (SCH 40) (3")	LF	465	972	1005	2442
618	6030	CONDT (PVC) (SCH 40) (3") (BORE)	LF	116	262	237	615
620	6008	ELEC CONDR (NO. 8) INSULATED	LF	601	1254	1262	3117
6007	6013	FIBER OPTIC CBL (SNGLE-MODE) (36 FIBER)	LF	641	1294	1302	3237
6007	6014	FIBER OPTIC CBL (SNGLE-MODE) (48 FIBER)	LF	641	1294	1302	3237
6007	6098	FIBER OPTIC PATCH PANEL (36 POSITION)	EA			1	1
6007	6099	FIBER OPTIC PATCH PANEL (48 POSITION)	EA			1	1
6016	6006	ITS MULTI-DUCT CND (PVC-40)	LF	465	972	869	2306
6016	6007	ITS MULTI-DUCT CND (PVC-40) (BORE)	LF	116	262	237	615
6062	6042	RELOCATE ITS RADIO	EA			1	1
6186	6006	ITS GND BOX (PCAST) TY 1 W/ APRON	EA	1	3	3	7
	**	ETHERNET SWITCH W/ POWER SUPPLY	EA			2	2

 ADDENDUM #1, 03/23/2023, REPLACE SHEET


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ITS & DMS REHABILITATION
 SUMMARY


SHEET 2 OF 3

DESIGN SS	FED. RD. DIV. NO. 6	FEDERAL AID PROJECT NO. (SEE TITLE SHEET)		HIGHWAY NO. IH 45, ETC.
GRAPHICS ET	STATE TEXAS	DISTRICT DALLAS	COUNTY DAL, ETC.	SHEET NO. 5A
CHECK EF	CONTROL 0092	SECTION 02	JOB 137, ETC.	

DATE: 3/23/2023
 FILE: T:\DALTRAF50\Sirwan\IH 45 Wireless to Fiber ITS Upgrade (0092-02-137)\Sheets\IH 45 - ITS SUMMARY.dgn

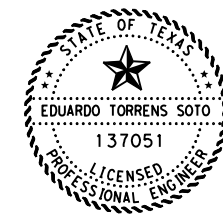
DMS REHABILITATION SUMMARY - CSJ: 0918-000-352												
ITEM	CODE	DESCRIPTION	UNIT	Sheet 1	Sheet 2	Sheet 3	Sheet 4	Sheet 5	Sheet 6	Sheet 7	Sheet 8	TOTAL
502	6001	BARRICADES, SIGNS AND TRAFFIC HANDLING	MO									7
618	6029	CONDT (PVC) (SCH 40) (3")	LF				40	45	60	20	20	185
620	6009	ELEC CONDR (NO. 6) BARE	LF	195	345							540
620	6010	ELEC CONDR (NO. 6) INSULATED	LF	135	240	45	294	135	177	156	180	1362
620	6011	ELEC CONDR (NO. 4) BARE	LF			15	256	453	629	142	178	1673
620	6012	ELEC CONDR (NO. 4) INSULATED	LF	510	795		549	1284	1785	315	399	5637
624	6010	GROUND BOX TY D (162922)W/APRON	EA				1			1	1	3
6007	6102	RELOCATE FIBER OPTIC CABLE*	LF			35		83	45	57	65	285
6027	6003	CONDUIT (PREPARE)	LF	210	425	20	354	471	1681	149	193	3503
6027	6008	GROUND BOX (PREPARE)	EA	2	2	1	1	4	4	2	2	18
6028	6002	INSTALL DMS (FOUNDATION MTD CABINET)	EA	1	1	1	1	1	1	1	1	8
6093	6010	REMOVE EXIST FIB OPT DMS SYS (TY 2)	EA	1	1	1	1	1	1	1	1	8
**		LED DMS FIELD EQUIPMENT (W/ CABINET)	EA	1	1	1	1	1	1	1	1	8
**		ETHERNET SWITCH W/ POWER SUPPLY	EA	1	1	1	1	1	1	1	1	8
**		PORT EXPANDER	EA	1	1				1			3

 **ADDENDUM #1, 03/23/2023, REPLACE SHEET**

			
ITS & DMS REHABILITATION SUMMARY			
SHEET 3 OF 3			
DESIGN SS	FED. RD. DIV. NO. 6	FEDERAL AID PROJECT NO. (SEE TITLE SHEET)	
GRAPHICS ET	STATE	DISTRICT	COUNTY
CHECK EF	TEXAS	DALLAS	DAL, ETC.
CHECK	CONTROL	SECTION	JOB
	0092	02	137, ETC.
			5B

Elec. Service ID	Electrical Service Description	Sheet #	Existing/Proposed	Service *Conduit Size	Service Conductors No./Size	Safety Switch Amps	Main Ckt. Bkr. Pole/Amps	Lighting Contactor Amps	Panelbd/ Loadcenter Amp Rating	Branch Circuit ID	Branch Ckt. Bkr. Pole/Amps	Branch Circuit Amps	KVA Load
01	ELC SRV TY D (120/240) 060 (NS)SS(N)PS(U)	7	P	1 1/4"	3/#6	N/A	2P/60	N/A	100	HUB #1 RVSD	2P/50 1P/20	40 15	11.4
02	ELC SRV TY D (120/240) 060 (NS)SS(N)PS(U)	12	P	1 1/4"	3/#6	N/A	2P/60	N/A	100	CCTV #2 HUB #2	1P/20 2P/50	15 40	11.4
03	ELC SRV TY D (120/240) 060 (NS)SS(N)PS(U)	17	P	1 1/4"	3/#6	N/A	2P/60	N/A	100	CCTV #3 HUB #3	1P/20 2P/50	15 40	11.4
04	ELC SRV TY D (120/240) 060 (NS)SS(N)PS(U)	22	P	1 1/4"	3/#6	N/A	2P/60	N/A	100	HUB #4 RVSD	2P/50 1P/20	40 15	11.4
05	ELC SRV TY D (120/240) 060 (NS)SS(N)PS(U)	29	P	1 1/4"	3/#6	N/A	2P/60	N/A	100	CCTV #5 HUB #5	1P/20 2P/50	15 40	11.4
06	ELC SRV TY D (120/240) 060 (NS)SS(N)PS(U)	33	P	1 1/4"	3/#6	N/A	2P/60	N/A	100	CCTV #6 HUB #6	1P/20 2P/50	15 40	11.4
07	ELC SRV TY D (120/240) 060 (NS)SS(N)PS(U)	38	P	1 1/4"	3/#6	N/A	2P/60	N/A	100	HUB #7 RVSD	2P/50 1P/20	40 15	11.4
08	ELC SRV TY D (120/240) 060 (NS)SS(N)PS(U)	43	P	1 1/4"	3/#6	N/A	2P/60	N/A	100	CCTV #8 HUB #8	1P/20 2P/50	15 40	11.4
09	ELC SRV TY D (120/240) 060 (NS)SS(N)PS(U)	46	P	1 1/4"	3/#6	N/A	2P/60	N/A	100	CCTV #9 HUB #9	1P/20 2P/50	15 40	11.4

* VERIFY SERVICE CONDUIT SIZE WITH UTILITY. SIZE MAY VARY DUE TO UTILITY COMPANY REQUIREMENTS.



P.E. 3/24/2023
Digitally signed by Eduardo Torrens Soto, P.E. Date

1 ADDENDUM #1, 03/23/2023, REPLACE SHEET



**IH45 ITS UPGRADE
ELECTRICAL SERVICE SUMMARY**

SCALE: 1"=100' SHEET 1 OF 1

DESIGN SS	FED. RD. DIV. NO.	FEDERAL AID PROJECT NO.		HIGHWAY NO.
GRAPHICS ET	6	(SEE TITLE SHEET)		IH 45, ETC.
CHECK EF	STATE	DISTRICT	COUNTY	SHEET NO.
CHECK	TEXAS	DALLAS	DAL, ETC.	6A
	CONTROL	SECTION	JOB	
	0092	02	137, ETC.	

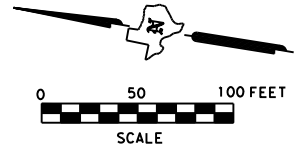
DATE: 3/27/2023
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CONDUIT AND CABLE CHART- CSJ 0092-02-137

RUN #	CONDITION	CONDUIT ITEM 618		CONDUIT ITEM 6016		ELECTRIC CONDUCTOR ITEM 620			FIBER CABLE ITEM 6007			ITEM 6004	RUN LENGTH					
		PVC SCHD 40 3"	PVC SCHD 40 3" BORE	ITS MDC SCHD 40 4"	ITS MDC SCHD 40 4" BORE	CONDR (NO. 8) TRACER	CONDR (NO. 8) BARE	CONDR (NO. 6) INSULATE	SINGLE MODE 6 ST.	SINGLE MODE 36 ST.	SINGLE MODE 48 ST.	ITS COM. CABLE						
1	I	1	393			1	398					1	408	1	408		393	
2	I	1	309			1	314					1	324	1	324		309	
3	I			1	34			1	34				1	49	1	49		34
4	I	1	230			1	230					1	245	1	245		230	
5	I	2	60					1	60	2	60		1	75	2	75		60
6	I	2	20					1	20	2	20			2	35		20	
7	I	2	25			2	25					1	125	1	125		25	
TOTAL		1142	34	1062	34	1001	80	160	35	1226	1371							

STATUS: E=EXISTING, I=INSTALL

- PROPOSED HUB # 1**
INSTALL:
 1 ITS GRND MNT CAB (TY 4) (CONF 2)
 1 PORT EXPANDER **
 1 ETHERNET SWITCH (WITH POWER SUPPLY)**
 1 FIBER OPTIC PATCH PANEL (96 POSITION)
 1 FIBER OPTIC PATCH PANEL (6 POSITION)



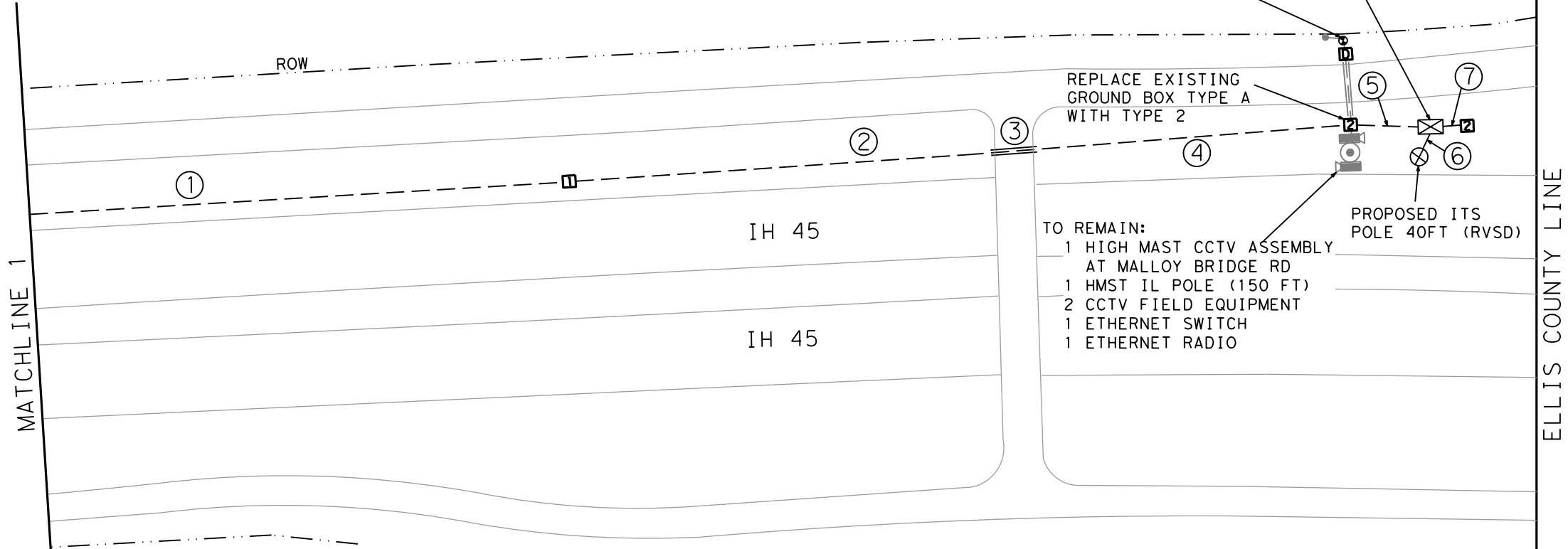
LEGEND

- PROPOSED CONDUIT
- EXISTING CONDUIT
- [] EXISTING GROUND BOX (TYPE)
- ⊙ EXISTING ELECTRICAL SERVICE
- ⊕ PROPOSED ELECTRICAL SERVICE
- [] EXISTING DMS
- [] EXISTING CCTV
- ▷ EXISTING RVSD
- ⊕ EXISTING RADIO
- [] PROPOSED DMS
- [] PROPOSED GROUND BOX TYPE 1
- [] PROPOSED GROUND BOX TYPE 2
- ⊙ CONDUIT LABEL
- [] PROPOSED CCTV & RVSD
- [] PROPOSED ITS HUB CABINET
- ⊙ PROPOSED ITS POLE 40FT (RVSD)

REPLACE EXISTING ELEC SERV TY T (120/240)000(NS)GS(N)TP(O)
 WITH ELEC SERV #01 TY D (120/240)060(NS)SS(N)PS(U)

REPLACE EXISTING GROUND BOX TYPE A WITH TYPE 2

- TO REMAIN:**
- 1 HIGH MAST CCTV ASSEMBLY AT MALLOY BRIDGE RD
 - 1 HMST IL POLE (150 FT)
 - 2 CCTV FIELD EQUIPMENT
 - 1 ETHERNET SWITCH
 - 1 ETHERNET RADIO



SHEET SUMMARY- CSJ 0092-02-137

ITEM	CODE	DESCRIPTION	UNIT	QTY
416	6006	DRILL SHAFT (48 IN)	LF	21
432	6001	RIPRAP (CONC) (4IN)	CY	1.25
618	6029	CONDT (PVC) (SCH 40) (3")	LF	1142
618	6030	CONDT (PVC) (SCH 40) (3") (BORE)	LF	34
620	6007	ELEC CONDR (NO. 8) BARE	LF	80
620	6008	ELEC CONDR (NO. 8) INSULATED	LF	1001
620	6010	ELEC CONDR (NO. 6) INSULATED	LF	160
624	6010	GROUND BOX TY D (162922) W/APRON	EA	1
624	6028	REMOVE GROUND BOX	EA	1
628	6002	REMOVE ELECTRICAL SERVICES	EA	1
628	6151	ELC SRV TY D 120/240 060 (NS) SS(N)PS(U)	EA	1
6007	6010	FIBER OPTIC CBL (SNGLE-MODE) (6 FIBER)	LF	35
6007	6013	FIBER OPTIC CBL (SNGLE-MODE) (36 FIBER)	LF	1226
6007	6014	FIBER OPTIC CBL (SNGLE-MODE) (48 FIBER)	LF	1371
6007	6095	FIBER OPTIC PATCH PANEL (6 POSITION)	EA	1
6007	6101	FIBER OPTIC PATCH PANEL (96 POSITION)	EA	1
6008	6027	ITS GRND MNT CAB (TY 4) (CONF 2)	EA	1
6016	6006	ITS MULTI-DUCT CND (PVC-40)	LF	1062
6016	6007	ITS MULTI-DUCT CND (PVC-40) (BORE)	LF	34
6062	6042	RELOCATE ITS RADIO	EA	1
6064	6019	ITS POLE (40 FT) (90 MPH)	EA	1
6064	6088	ITS POLE MNT CAB (TY 3) (CONF 1)	EA	1
6186	6006	ITS GND BOX (PCAST) TY 1 W/ APRON	EA	1
6186	6012	ITS GND BOX (PCAST) TY 2 W/ APRON	EA	2
6304	6002	ITS RVSD (DATA COLLECT & WWA) SYS	EA	1
	**	ETHERNET SWITCH W/ POWER SUPPLY	EA	2
	**	RS-237/RS-422 TERMINAL SERVER		1
	**	PORT EXPANDER		1

** FURNISHED BY TXDOT AND INSTALL BY CONTRACTOR

NOTES:

- ETHERNET RADIO POINTED SOUTH NEEDS TO STAY IN PLACE FOR EXISTING NETWORK COMMUNICATION.
- ETHERNET RADIO POINTED NORTH TO BELT LINE RD TO POINT DOWN TO PROPOSED RVSD POLE. THIS WORK WILL BE SUBSIDIARY TO ITEM 6062.
- INSTALL ETHERNET RADIO REMOVAL FROM IH 20 - IH45 HIGH MAST THAT WAS POINTED SOUTH AND INSTALL ON PROPOSED RVSD POLE TO POINT UP TO MALLOY BRIDGE HIGH MAST.
- THE CONTRACTOR SHALL ENSURE THAT THE EXISTING DALLAS DISTRICT ITS SYSTEM REMAINS OPERATIONAL THROUGHOUT THE INSTALLATION OF THE PROPOSED ELECTRICAL SERVICE WITH A MAXIMUM LAPSE OF 24 HOURS PER OUTAGE.

ADDENDUM #1, 03/23/2023, REPLACE SHEET



P.E. 3/27/2023
 Digitally signed by Eduardo Torrens Soto, P.E. Date



IH45 ITS UPGRADE LAYOUT

SCALE: 1"=100' SHEET 1 OF 44

DESIGN SS	FED. RD. DIV. NO. 6	FEDERAL AID PROJECT NO. (SEE TITLE SHEET)		HIGHWAY NO. IH 45, ETC.
GRAPHICS ET	STATE	DISTRICT	COUNTY	SHEET NO. 7
CHECK EF	TEXAS	DALLAS	DAL, ETC.	
CHECK	CONTROL	SECTION	JOB	
	0092	02	137, ETC.	

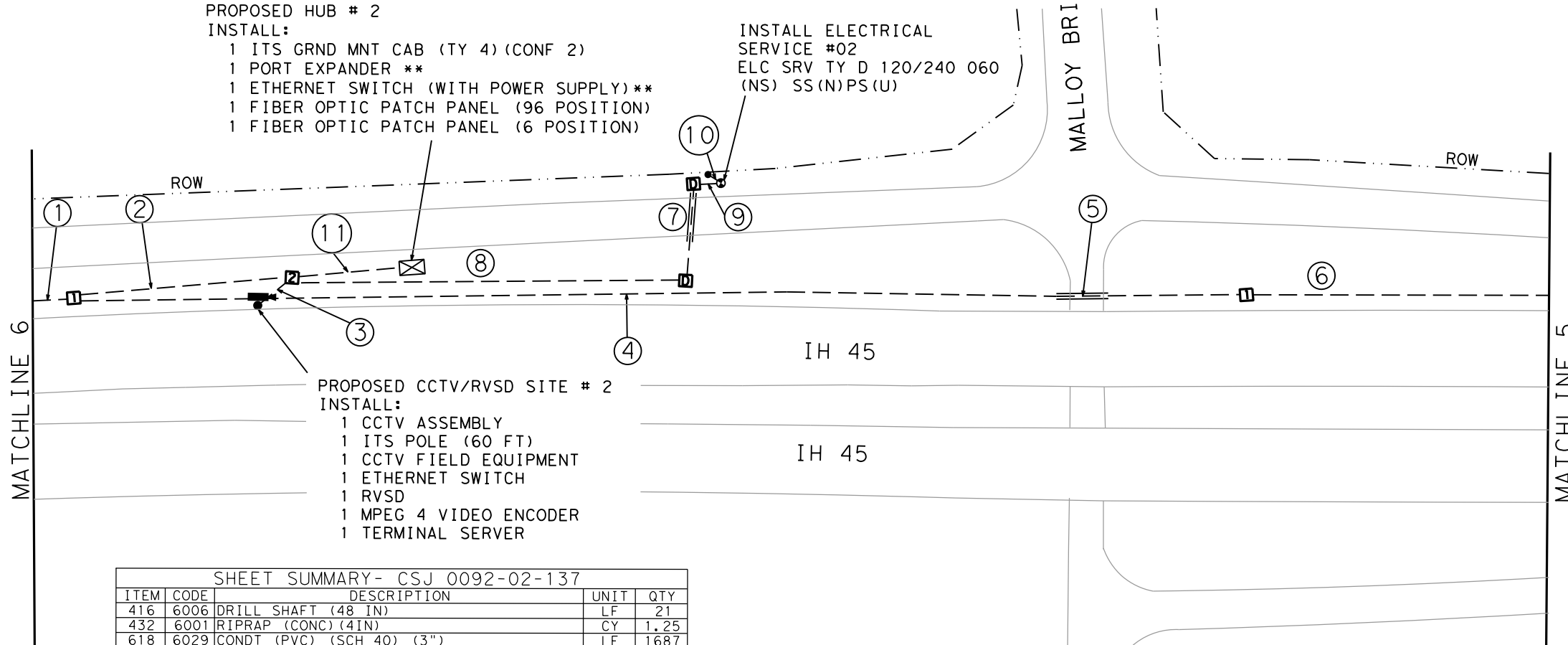
RUN #	CONDITION	CONDUIT ITEM 618		CONDUIT ITEM 6016		ELECTRIC CONDUCTOR ITEM 620			FIBER CABLE ITEM 6007			ITEM 6004	RUN LENGTH
		PVC SCHD 40 3"	PVC SCHD 40 3" BORE	ITS MDC SCHD 40 4"	ITS MDC SCHD 40 4" BORE	CONDR (NO. 8) TRACER	CONDR (NO. 8) BARE	CONDR (NO. 6) INSULATE	SINGLE MODE 6 ST.	SINGLE MODE 36 ST.	SINGLE MODE 48 ST.	ITS COM. CABLE	
1	I	1	30	1	30	1	35						30
2	I	2	159	2	159	1	164						159
3	I	2	33	1	33								33
4	I	1	814	1	814	1	819						814
5	I			1	38	1	43						38
6	I	1	219	1	219	1	224						219
7	I	1	35	1	36	1	76	2	76				71
8	I			1	286	1	291	2	291				286
9	I	1	20			1	25	2	25				20
10	I	1	11			1	16	2	16				11
11	I	2	87	2	87	1	92	2	92	102	2	102	87
TOTAL		1687	360	1588	38	1285	538	1076	150	1146	1761		

STATUS: E=EXISTING, I=INSTALL

PROPOSED HUB # 2
INSTALL:

- 1 ITS GRND MNT CAB (TY 4) (CONF 2)
- 1 PORT EXPANDER **
- 1 ETHERNET SWITCH (WITH POWER SUPPLY)**
- 1 FIBER OPTIC PATCH PANEL (96 POSITION)
- 1 FIBER OPTIC PATCH PANEL (6 POSITION)

INSTALL ELECTRICAL SERVICE #02
ELC SRV TY D 120/240 060 (NS) SS(N)PS(U)



PROPOSED CCTV/RVSD SITE # 2

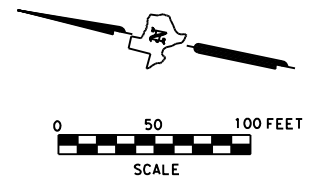
INSTALL:

- 1 CCTV ASSEMBLY
- 1 ITS POLE (60 FT)
- 1 CCTV FIELD EQUIPMENT
- 1 ETHERNET SWITCH
- 1 RVSD
- 1 MPEG 4 VIDEO ENCODER
- 1 TERMINAL SERVER

SHEET SUMMARY- CSJ 0092-02-137

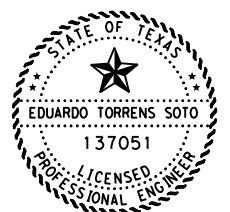
ITEM	CODE	DESCRIPTION	UNIT	QTY
416	6006	DRILL SHAFT (48 IN)	LF	21
432	6001	RIPRAP (CONC) (4IN)	CY	1.25
618	6029	CONDT (PVC) (SCH 40) (3")	LF	1687
618	6030	CONDT (PVC) (SCH 40) (3") (BORE)	LF	360
620	6007	ELEC CONDR (NO. 8) BARE	LF	538
620	6008	ELEC CONDR (NO. 8) INSULATED	LF	1285
620	6010	ELEC CONDR (NO. 6) INSULATED	LF	1076
624	6010	GROUND BOX TY D (162922) W/APRON	EA	1
628	6151	ELC SRV TY D 120/240 060 (NS) SS(N)PS(U)	EA	1
6007	6010	FIBER OPTIC CBL (SNGLE-MODE) (6 FIBER)	LF	150
6007	6013	FIBER OPTIC CBL (SNGLE-MODE) (36 FIBER)	LF	1146
6007	6014	FIBER OPTIC CBL (SNGLE-MODE) (48 FIBER)	LF	1761
6007	6095	FIBER OPTIC PATCH PANEL (6 POSITION)	EA	1
6007	6101	FIBER OPTIC PATCH PANEL (96POSITION)	EA	1
6008	6027	ITS GRND MNT CAB (TY 4) (CONF 2)	EA	1
6010	6002	CCTV FIELD EQUIPMENT (DIGITAL)	EA	1
6010	6004	CCTV MOUNT (POLE)	EA	1
6016	6006	ITS MULTI-DUCT CND (PVC-40)	LF	1588
6016	6007	ITS MULTI-DUCT CND (PVC-40) (BORE)	LF	38
6064	6055	ITS POLE (60 FT) (90 MPH)	EA	1
6064	6088	ITS POLE MNT CAB (TY 3) (CONF 1)	EA	1
6186	6006	ITS GND BOX (PCAST) TY 1 W/ APRON	EA	2
6186	6012	ITS GND BOX (PCAST) TY 2 W/ APRON	EA	1
6304	6002	ITS RVSD (DATA COLLECT & WWA) SYS	EA	1
	**	ETHERNET SWITCH W/ POWER SUPPLY	EA	2
	**	RS-237/RS-422 TERMINAL SERVER	EA	1
	**	PORT EXPANDER	EA	1

** FURNISHED BY TXDOT AND INSTALL BY CONTRACTOR



LEGEND

- PROPOSED CONDUIT
- - - EXISTING CONDUIT
- [] EXISTING GROUND BOX (TYPE)
- ⊗ EXISTING ELECTRICAL SERVICE
- ⊕ PROPOSED ELECTRICAL SERVICE
- ▬ EXISTING DMS
- ▬ EXISTING CCTV
- ▽ EXISTING RVSD
- ⊕ EXISTING RADIO
- ▬ PROPOSED DMS
- PROPOSED GROUND BOX TYPE 1
- ▣ PROPOSED GROUND BOX TYPE 2
- ⊕ CONDUIT LABEL
- ▬ PROPOSED CCTV & RVSD
- ⊗ PROPOSED ITS HUB CABINET
- ⊗ PROPOSED ITS POLE 40FT (RVSD)



Digitally signed by Eduardo Torrens Soto, P.E. Date 3/23/2023

1 ADDENDUM #1, 03/23/2023, REPLACE SHEET



IH45 ITS UPGRADE LAYOUT

DESIGN SS	FED. RD. DIV. NO. 6	FEDERAL AID PROJECT NO. (SEE TITLE SHEET)	HIGHWAY NO. IH 45, ETC.
GRAPHICS ET	STATE	DISTRICT	COUNTY
CHECK EF	TEXAS	DALLAS	DAL, ETC.
CHECK	CONTROL	SECTION	JOB
	0092	02	137, ETC.

12

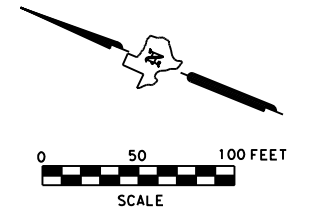
DATE: 3/23/2023 FILE: T:\DALTRAF50ASirwan\IH 45 Wireless to Fiber ITS Upgrade (0092-02-137)\Sheets\IH 45 - ITS - Sheet 6.dgn

DATE: 3/23/2023
 FILE: T:\DALTRAF50\SIrwan\IH 45 Wireless to Fiber ITS Upgrade (0092-02-137)\Sheets\IH 45 - ITS - Sheet 11.dgn

CONDUIT AND CABLE CHART- CSJ 0092-02-137

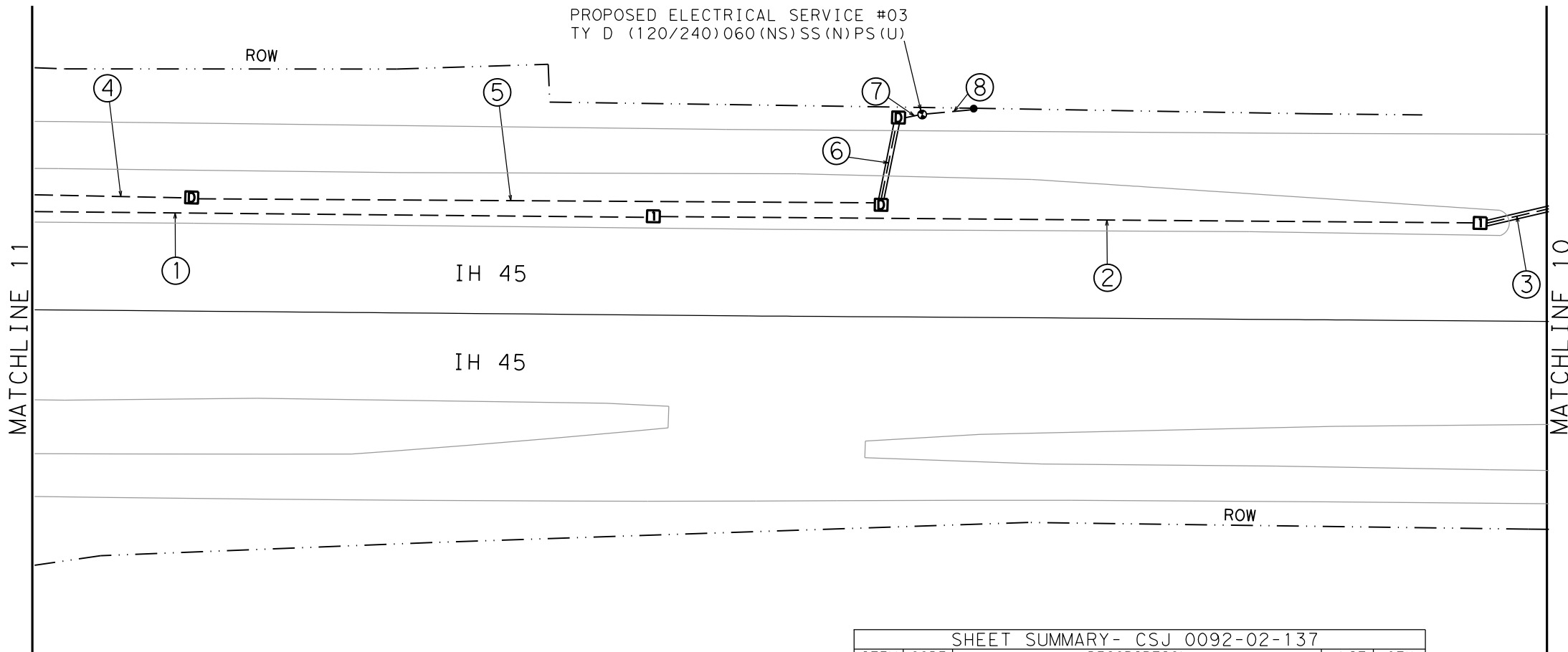
RUN #	CONDITION	CONDUIT ITEM 618		CONDUIT ITEM 6016		ELECTRIC CONDUCTOR ITEM 620			FIBER CABLE ITEM 6007			ITEM 6004 ITS COM. CABLE	RUN LENGTH	
		PVC SCHD 40 3"	PVC SCHD 40 3" BORE	ITS MDC SCHD 40 4"	ITS MDC SCHD 40 4" BORE	CONDR (NO. 8) TRACER	CONDR (NO. 8) BARE	CONDR (NO. 6) INSULATE	SINGLE MODE 6 ST.	SINGLE MODE 36 ST.	SINGLE MODE 48 ST.			
1	I	1	451	1	451	1	456				466	1	466	451
2	I	1	600	1	600	1	605				615	1	615	600
3	I	1	48			1	53				63	1	63	48
4	I	1	115					1	120	2	120			115
5	I	1	501					1	506	2	506			501
6	I			1	65			1	70	2	70			65
7	I	1	17					1	22	2	22			17
8	I	1	38					1	43	2	43			38
TOTAL		1770	65	1099		1114	761	1522			1144	1144		

STATUS: E=EXISTING, I=INSTALL



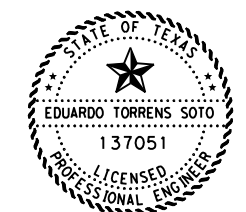
LEGEND

- PROPOSED CONDUIT
- EXISTING CONDUIT
- [] EXISTING GROUND BOX (TYPE)
- ⊙ EXISTING ELECTRICAL SERVICE
- ⊕ PROPOSED ELECTRICAL SERVICE
- [] EXISTING DMS
- [] EXISTING CCTV
- ▷ EXISTING RVSD
- ⊕ EXISTING RADIO
- [] PROPOSED DMS
- [] PROPOSED GROUND BOX TYPE 1
- [] PROPOSED GROUND BOX TYPE 2
- # CONDUIT LABEL
- [] PROPOSED CCTV & RVSD
- [] PROPOSED ITS HUB CABINET
- ⊗ PROPOSED ITS POLE 40FT (RVSD)



SHEET SUMMARY- CSJ 0092-02-137

ITEM	CODE	DESCRIPTION	UNIT	QTY
618	6029	CONDT (PVC) (SCH 40) (3")	LF	1770
618	6030	CONDT (PVC) (SCH 40) (3") (BORE)	LF	65
620	6007	ELEC CONDR (NO. 8) BARE	LF	761
620	6008	ELEC CONDR (NO. 8) INSULATED	LF	1114
620	6010	ELEC CONDR (NO. 6) INSULATED	LF	1522
624	6010	GROUND BOX TY D (162922) W/APRON	EA	3
628	6151	ELC SRV TY D 120/240 060 (NS) SS (N) PS (U)	EA	1
6007	6013	FIBER OPTIC CBL (SNGLE-MODE) (36 FIBER)	LF	1144
6007	6014	FIBER OPTIC CBL (SNGLE-MODE) (48 FIBER)	LF	1144
6016	6006	ITS MULTI-DUCT CND (PVC-40)	LF	1099
6186	6006	ITS GND BOX (PCAST) TY 1 W/ APRON	EA	2



P.E. 3/23/2023
 Digitally signed by Eduardo Torrens Soto, P.E. Date

ADDENDUM #1, 03/23/2023, REPLACE SHEET

Texas Department of Transportation
 © 2023

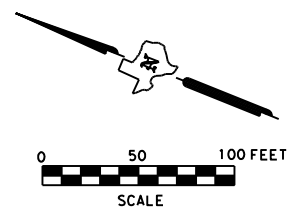
IH45 ITS UPGRADE LAYOUT

SCALE: 1"=100' SHEET 11 OF 44

DESIGN SS	FED. RD. DIV. NO. 6	FEDERAL AID PROJECT NO. (SEE TITLE SHEET)		HIGHWAY NO. IH 45, ETC.
GRAPHICS ET	STATE	DISTRICT	COUNTY	SHEET NO.
CHECK EF	TEXAS	DALLAS	DAL, ETC.	17
CHECK	CONTROL	SECTION	JOB	
	0092	02	137, ETC.	

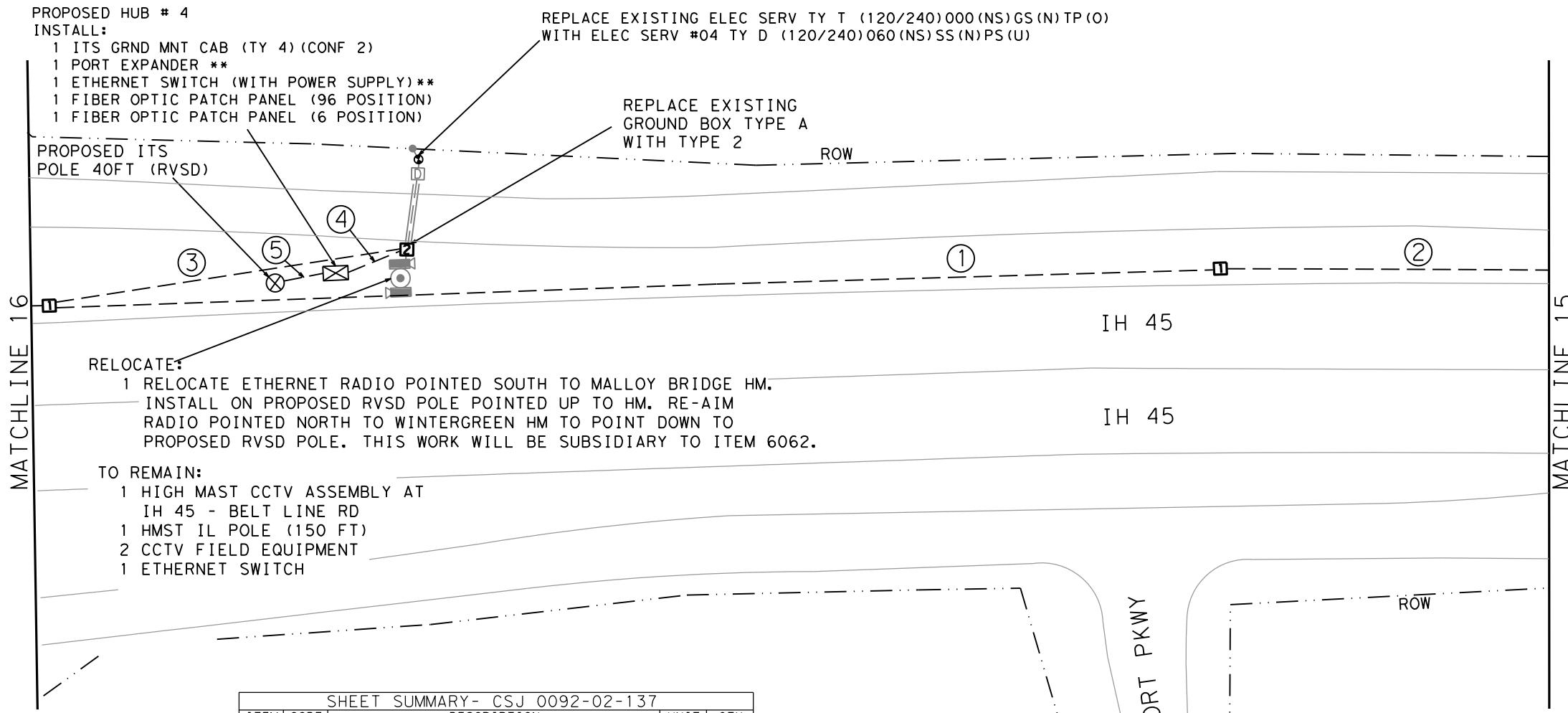
CONDUIT AND CABLE CHART- CSJ 0092-02-137														
RUN #	CONDITION	CONDUIT ITEM 618		CONDUIT ITEM 6016		ELECTRIC CONDUCTOR ITEM 620			FIBER CABLE ITEM 6007			ITEM 6004 ITS COM. CABLE	RUN LENGTH	
		SCHD 40 3"	PVC SCHD 40 3" BORE	ITS MDC 4"	ITS MDC 4" BORE	CONDR (NO. 8) TRACER	CONDR (NO. 8) BARE	CONDR (NO. 6) INSULATE	SINGLE MODE 6 ST.	SINGLE MODE 36 ST.	SINGLE MODE 48 ST.			
1	I	1	844	1	844	1	849				859	1	859	844
2	I	1	134	1	134	1	139				149	1	149	134
3	I	2	260	2	260	1	265				2	2	275	260
4	I	2	60	2	60	1	65	1	65	2	65	2	75	60
5	I	1	45	1	45						60			45
TOTAL		1663		1663		1318	115	230	60	1008	1708			

STATUS: E=EXISTING, I=INSTALL



LEGEND

- PROPOSED CONDUIT
- EXISTING CONDUIT
- [] EXISTING GROUND BOX (TYPE)
- ⊗ EXISTING ELECTRICAL SERVICE
- ⊕ PROPOSED ELECTRICAL SERVICE
- [] EXISTING DMS
- [] EXISTING CCTV
- ▷ EXISTING RVSD
- ⊕ EXISTING RADIO
- [] PROPOSED DMS
- [] PROPOSED GROUND BOX TYPE 1
- [] PROPOSED GROUND BOX TYPE 2
- ⊕ CONDUIT LABEL
- [] PROPOSED CCTV & RVSD
- [] PROPOSED ITS HUB CABINET
- ⊗ PROPOSED ITS POLE 40FT (RVSD)



- PROPOSED HUB # 4**
INSTALL:
 1 ITS GRND MNT CAB (TY 4) (CONF 2)
 1 PORT EXPANDER **
 1 ETHERNET SWITCH (WITH POWER SUPPLY)**
 1 FIBER OPTIC PATCH PANEL (96 POSITION)
 1 FIBER OPTIC PATCH PANEL (6 POSITION)
- RELOCATE:**
 1 RELOCATE ETHERNET RADIO POINTED SOUTH TO MALLOY BRIDGE HM.
 INSTALL ON PROPOSED RVSD POLE POINTED UP TO HM. RE-AIM
 RADIO POINTED NORTH TO WINTERGREEN HM TO POINT DOWN TO
 PROPOSED RVSD POLE. THIS WORK WILL BE SUBSIDIARY TO ITEM 6062.
- TO REMAIN:**
 1 HIGH MAST CCTV ASSEMBLY AT
 IH 45 - BELT LINE RD
 1 HMST IL POLE (150 FT)
 2 CCTV FIELD EQUIPMENT
 1 ETHERNET SWITCH

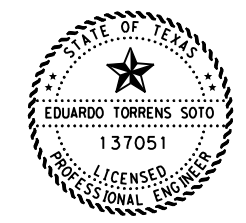
SHEET SUMMARY- CSJ 0092-02-137				
ITEM	CODE	DESCRIPTION	UNIT	QTY
416	6006	DRILL SHAFT (48 IN)	LF	21
432	6001	RIPRAP (CONC) (4IN)	CY	1.25
618	6029	CONDT (PVC) (SCH 40) (3")	LF	1663
620	6007	ELEC CONDR (NO. 8) BARE	LF	115
620	6008	ELEC CONDR (NO. 8) INSULATED	LF	1318
620	6010	ELEC CONDR (NO. 6) INSULATED	LF	230
624	6010	GROUND BOX TY D (162922) W/APRON	EA	1
624	6028	REMOVE GROUND BOX	EA	1
628	6002	REMOVE ELECTRICAL SERVICES	EA	1
628	6151	ELC SRV TY D 120/240 060 (NS) SS(N)PS(U)	EA	1
6007	6010	FIBER OPTIC CBL (SNGLE-MODE) (6 FIBER)	LF	60
6007	6013	FIBER OPTIC CBL (SNGLE-MODE) (36 FIBER)	LF	1008
6007	6014	FIBER OPTIC CBL (SNGLE-MODE) (48 FIBER)	LF	1708
6007	6095	FIBER OPTIC PATCH PANEL (6 POSITION)	EA	1
6007	6101	FIBER OPTIC PATCH PANEL (96 POSITION)	EA	1
6008	6027	ITS GRND MNT CAB (TY 4) (CONF 2)	EA	1
6016	6006	ITS MULTI-DUCT CND (PVC-40)	LF	1663
6062	6042	RELOCATE ITS RADIO	EA	1
6064	6019	ITS POLE (40 FT) (90 MPH)	EA	1
6064	6088	ITS POLE MNT CAB (TY 3) (CONF 1)	EA	1
6186	6006	ITS GND BOX (PCAST) TY 1 W/ APRON	EA	2
6186	6012	ITS GND BOX (PCAST) TY 2 W/ APRON	EA	1
6304	6002	ITS RVSD (DATA COLLECT & WWA) SYS	EA	1
	**	ETHERNET SWITCH W/ POWER SUPPLY	EA	2
	**	RS-237/RS-422 TERMINAL SERVER	EA	1
	**	PORT EXPANDER	EA	1

** FURNISHED BY TXDOT AND INSTALL BY CONTRACTOR

1 ADDENDUM #1, 03/23/2023, REPLACE SHEET

NOTES:

- THE CONTRACTOR SHALL ENSURE THAT THE EXISTING DALLAS DISTRICT ITS SYSTEM REMAINS OPERATIONAL THROUGHOUT THE INSTALLATION OF THE PROPOSED ELECTRICAL SERVICE WITH A MAXIMUM LAPSE OF 24 HOURS PER OUTAGE.



Digitally signed by Eduardo Torrens Soto, P.E. Date 3/27/2023



IH45 ITS UPGRADE LAYOUT

SCALE: 1"=100'		SHEET 16 OF 44	
DESIGN SS	FED. RD. DIV. NO. 6	FEDERAL AID PROJECT NO. (SEE TITLE SHEET)	
GRAPHICS ET	STATE	DISTRICT	COUNTY
CHECK EF	TEXAS	DALLAS	DAL, ETC.
CHECK	CONTROL	SECTION	JOB
	0092	02	137, ETC.

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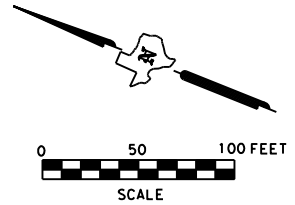
DATE: 3/27/2023 FILE: T:\DALTRAF50S\irwon\IH 45 Wireless to Fiber ITS Upgrade (0092-02-137)\Sheets\IH 45 - ITS - Sheet 16.dgn



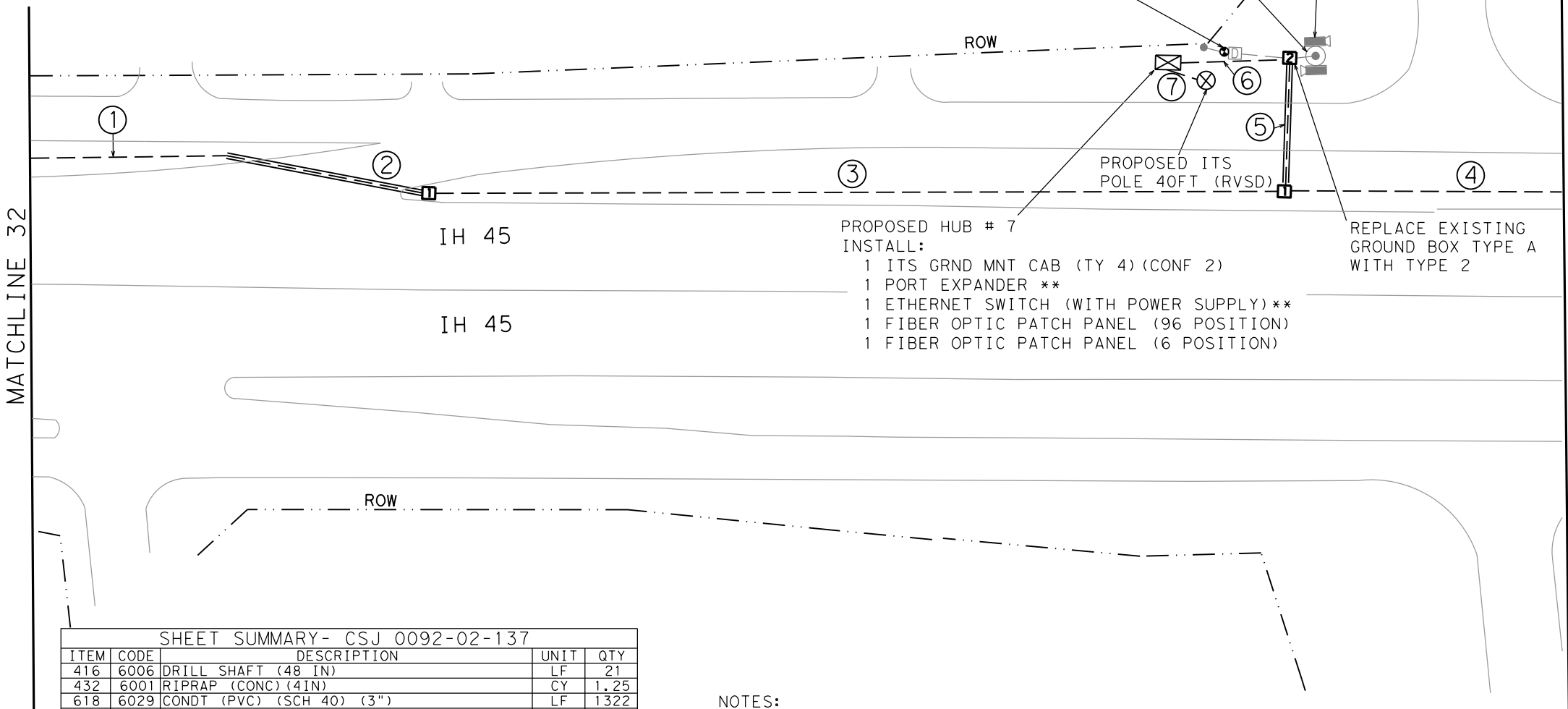
ADDENDUM #1, 03/23/2023, REPLACE SHEET

RELOCATE:
1 RELOCATE ETHERNET RADIO POINTED SOUTH TO BELT LINE HM. INSTALL ON RVSD POLE TO POINT UP TO HM. RE-AIM ETHERNET RADIO POINTED NORTH TO IH 20-IH45 HM TO POINT DOWN TO PROPOSED RVSD POLE. THIS WORK WILL BE SUBSIDIARY TO ITEM 6062.

TO REMAIN:
1 HIGH MAST CCTV ASSEMBLY AT IH45-WINTERGREEN
1 HMST IL POLE (150 FT)
2 CCTV FIELD EQUIPMENT
1 ETHERNET SWITCH



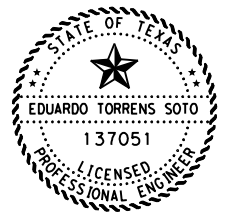
REPLACE EXISTING ELEC SERV TY T (120/240)000(NS)GS(N)TP(O) WITH ELEC SERV #07 TY D (120/240)060(NS)SS(N)PS(U)



LEGEND

- PROPOSED CONDUIT
--- EXISTING CONDUIT
[] EXISTING GROUND BOX (TYPE)
[] EXISTING ELECTRICAL SERVICE
[] PROPOSED ELECTRICAL SERVICE
[] EXISTING DMS
[] EXISTING CCTV
[] EXISTING RVSD
[] EXISTING RADIO
[] PROPOSED DMS
[] PROPOSED GROUND BOX TYPE 1
[] PROPOSED GROUND BOX TYPE 2
[] CONDUIT LABEL
[] PROPOSED CCTV & RVSD
[] PROPOSED ITS HUB CABINET
[] PROPOSED ITS POLE 40FT (RVSD)

PROPOSED HUB # 7
INSTALL:
1 ITS GRND MNT CAB (TY 4) (CONF 2)
1 PORT EXPANDER **
1 ETHERNET SWITCH (WITH POWER SUPPLY)**
1 FIBER OPTIC PATCH PANEL (96 POSITION)
1 FIBER OPTIC PATCH PANEL (6 POSITION)



Digitally signed by Eduardo Torrens Soto, P.E. 3/27/2023 Date

SHEET SUMMARY - CSJ 0092-02-137. Table with columns: ITEM CODE, DESCRIPTION, UNIT, QTY. Lists various materials and equipment like drill shafts, conduits, cables, and electrical components.

NOTES:

1. THE CONTRACTOR SHALL ENSURE THAT THE EXISTING DALLAS DISTRICT ITS SYSTEM REMAINS OPERATIONAL THROUGHOUT THE INSTALLATION OF THE PROPOSED ELECTRICAL SERVICE WITH A MAXIMUM LAPSE OF 24 HOURS PER OUTAGE.

CONDUIT AND CABLE CHART - CSJ 0092-02-137

Table with columns: RUN #, CONDITION, CONDUIT ITEM 618 (PVC SCHD 40), CONDUIT ITEM 6016 (ITS MDC), ELECTRIC CONDUCTOR ITEM 620 (CONDTR), FIBER CABLE ITEM 6007 (SINGLE MODE), ITEM 6004 (ITS COM. CABLE), RUN LENGTH. Includes a TOTAL row at the bottom.

STATUS: E=EXISTING, I=INSTALL

** FURNISHED BY TXDOT AND INSTALL BY CONTRACTOR



IH45 ITS UPGRADE LAYOUT

SCALE: 1"=100' SHEET 32 OF 44

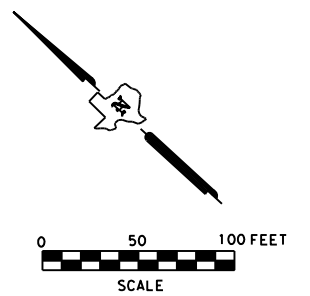
Table with columns: DESIGN (SS, ET, CHECK EF, CHECK), FED. RD. DIV. NO. (6), FEDERAL AID PROJECT NO. ((SEE TITLE SHEET)), HIGHWAY NO. (IH 45, ETC.), SHEET NO. (38).

SHEET SUMMARY- CSJ 0092-14-101				
ITEM	CODE	DESCRIPTION	UNIT	QTY
618	6029	CONDT (PVC) (SCH 40) (3")	LF	1005
618	6030	CONDT (PVC) (SCH 40) (3") (BORE)	LF	237
620	6008	ELEC CONDR (NO. 8) INSULATED	LF	1262
6007	6013	FIBER OPTIC CBL (SNGLE-MODE) (36 FIBER)	LF	1302
6007	6014	FIBER OPTIC CBL (SNGLE-MODE) (48 FIBER)	LF	1302
6007	6098	FIBER OPTIC PATCH PANEL (36 POSITION)	EA	1
6007	6099	FIBER OPTIC PATCH PANEL (48 POSITION)	EA	1
6016	6006	ITS MULTI-DUCT CND (PVC-40)	LF	869
6016	6007	ITS MULTI-DUCT CND (PVC-40) (BORE)	LF	237
6062	6042	RELOCATE ITS RADIO	EA	1
6186	6006	ITS GND BOX (PCAST) TY 1 W/ APRON	EA	3
	**	ETHERNET SWITCH W/ POWER SUPPLY	EA	2

** FURNISHED BY TXDOT AND INSTALL BY CONTRACTOR

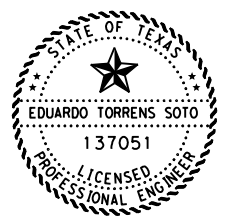
CONDUIT AND CABLE CHART- CSJ 0092-14-101														
RUN #	CONDITION	CONDUIT ITEM 618		CONDUIT ITEM 6016		ELECTRIC CONDUCTOR ITEM 620			FIBER CABLE ITEM 6007			ITEM 6004	RUN LENGTH	
		PVC SCHD 40 3"	PVC SCHD 40 3" BORE	ITS MDC SCHD 40 4"	ITS MDC SCHD 40 4" BORE	CONDR (NO. 8) TRACER	CONDR (NO. 8) BARE	CONDR (NO. 6) INSULATE	SINGLE MODE 6 ST.	SINGLE MODE 36 ST.	SINGLE MODE 48 ST.			ITS COM. CABLE
1	I	1	80			1	85				95	95	80	
2	I	1	325	1	237	1	325	1	237				577	577
3	I	1	464			1	464						479	479
4	I	1	136			1	141						151	151
TOTAL		1005	237	869	237	1262					1302	1302		

STATUS: E=EXISTING, I=INSTALL

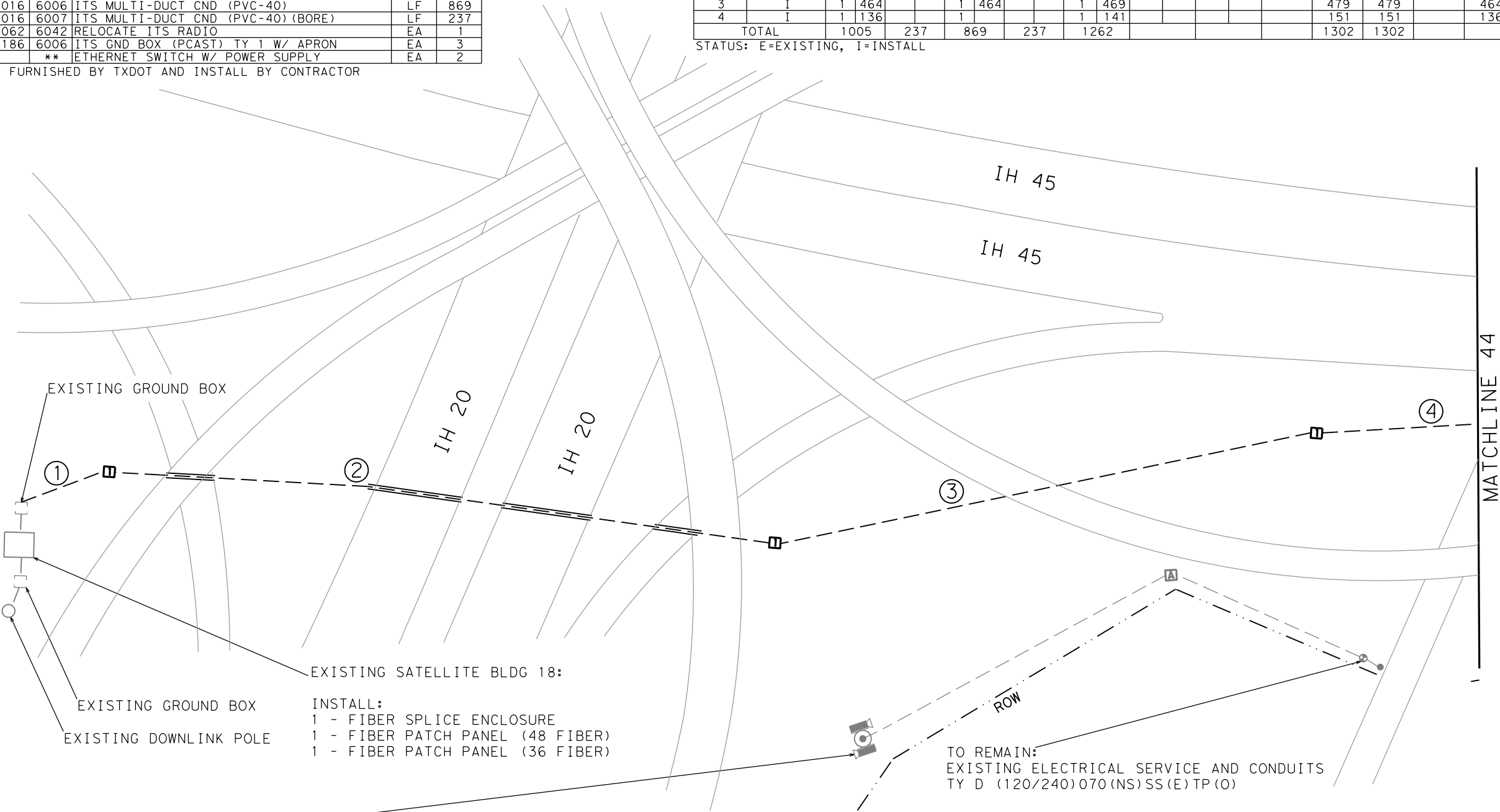


LEGEND

- PROPOSED CONDUIT
- - - EXISTING CONDUIT
- [] EXISTING GROUND BOX (TYPE)
- ⊗ EXISTING ELECTRICAL SERVICE
- ⊕ PROPOSED ELECTRICAL SERVICE
- ⊠ EXISTING DMS
- ⊡ EXISTING CCTV
- ▽ EXISTING RVSD
- ⊕ EXISTING RADIO
- ⊠ PROPOSED DMS
- ⊡ PROPOSED GROUND BOX TYPE 1
- ⊡ PROPOSED GROUND BOX TYPE 2
- ⊕ CONDUIT LABEL
- ⊡ PROPOSED CCTV & RVSD
- ⊡ PROPOSED ITS HUB CABINET
- ⊗ PROPOSED ITS POLE 40FT (RVSD)



P.E. 3/27/2023
Digitally signed by Eduardo Torrens Soto, P.E. Date



EXISTING SATELLITE BLDG 18:
INSTALL:
1 - FIBER SPLICE ENCLOSURE
1 - FIBER PATCH PANEL (48 FIBER)
1 - FIBER PATCH PANEL (36 FIBER)

RELOCATE:
1 RELOCATE ETHERNET RADIO POINTED SOUTH TO WINTERGREEN AND INSTALL ON PROPOSED RVSD POLE AT MALLOY BRIDGE.

TO REMAIN:
1 HIGH MAST CCTV ASSEMBLY AT IH 20 - IH 45
1 HMST IL POLE (150 FT)
2 CCTV FIELD EQUIPMENT
1 ETHERNET SWITCH
1 ETHERNET RADIO POINTED NORTH TOWARDS SATELLITE BUILDING
1 ETHERNET RADIO POINTED NORTH TOWARDS SIMPSON STUART CCTV

TO REMAIN:
EXISTING ELECTRICAL SERVICE AND CONDUITS
TY D (120/240) 070 (NS) SS (E) TP (O)

NOTES:
1. CONTACT THE TXDOT FREEWAY MANAGEMENT OFFICE (214-320-6602) AT LEAST 48 HOURS IN ADVANCE OF PERFORMING ANY WORK ON THIS PROJECT THAT DISCONNECTS OR RECONNECTS EXISTING TXDOT "ITS" FIBER OPTIC CABLE OR TXDOT "ITS" RADIOS. TXDOT "ITS" PERSONNEL MUST BE ON-SITE WHILE THIS WORK IS PERFORMED.

1 ADDENDUM #1, 03/23/2023, REPLACE SHEET



IH45 ITS UPGRADE LAYOUT

SCALE: 1"=100' SHEET 44 OF 44

DESIGN SS	FED. RD. DIV. NO. 6	FEDERAL AID PROJECT NO. (SEE TITLE SHEET)		HIGHWAY NO. IH 45, ETC.
GRAPHICS ET	STATE	DISTRICT	COUNTY	SHEET NO.
CHECK EF	TEXAS	DALLAS	DAL, ETC.	50
CHECK	CONTROL	SECTION	JOB	
	0092	02	137, ETC.	

DATE: 3/27/2023 FILE: T:\DAL\TRAFF50\SIrwan\IH 45 Wireless to Fiber ITS Upgrade (0092-02-137)\Sheets\IH 45 - ITS - Sheet 44.dgn