09-19-14 LETTING ITEM 074

FOR INDEX OF SHEETS, SEE SHEET NO. 2

0

0

0

0

STATE OF ILLINOIS

DEPARTMENT OF TRANSPORTATION

DIVISION OF HIGHWAYS

PROPOSED HIGHWAY PLANS

VARIOUS ROUTES
SECTION D7 ITS 2014

FURNISH & ERECT OVERHEAD MESSAGE BOARD SIGN TRUSSES

VARIOUS

COUNTIES

C-97-004-14

EFFINGHAM COUNTY LOCATION MAP F.A.I. 70 ON SHEET NO. 6

EFFINGHAM COUNTY LOCATION MAP F.A.I. 57 ON SHEET NO. 7

CUMBERLAND COUNTY LOCATION MAP F.A.I. 57 ON SHEET NO. 8

CUMBERLAND COUNTY LOCATION MAP F.A.I. 70 ON SHEET NO. 9

CLARK COUNTY LOCATION MAP F.A.I. 70 ON SHEET NO. 10

LAWRENCE COUNTY LOCATION MAP FAP 327 (US 50) ON SHEET NO. 11

FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

J.U.L.I.E. JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION 1–800–892–0123 OR 811 CONTACT CSX RAILWAY FOR LOCATES WITHIN RR ROW

PROJECT ENGINEER MATT WEIDNER
PROJECT MANAGER DEWAYNE SEACHRIST

CONTRACT NO. 74643

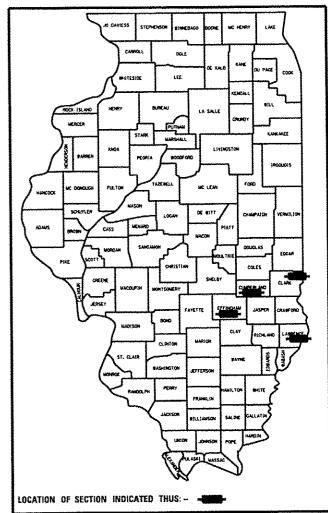
RTE. SECTION COUNTY SHEETS NO.

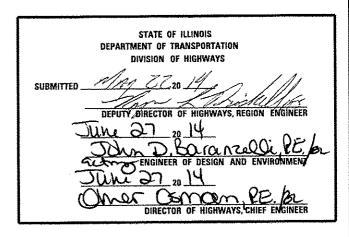
VAR D7 175 2014 - 72 1

-EFFINGHAN, CUMBERI AND RAIMOIS CONTRACT NO. 74645

CLARK & LARRENCE

D-97-002-14





PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

INDEX OF SHEETS

L.
ILS

HIGHWAY STANDARDS

7.12.0.17,777	<u> </u>
001006	DECIMAL OF AN INCH AND OF A FOOT
630001-10	STEEL PLATE BEAM GUARDRAIL
630301-06	SHOULDER WIDENING FOR TYPE I (SPECIAL) GUARDRAIL TERMINALS
631011-09	TRAFFIC BARRIER TERMINAL, TYPE 2
635006-03	REFLECTOR AND TERMINAL MARKER REPLACEMENT
635011-02	REFLECTOR MARKER AND MOUNTING DETAILS
701001-02	OFF-RD OPERATIONS, 2L, 2W, MORE THAN 15' AWAY
701006-05	OFF-RD OPERATINS, 2L, 2W, DAY ONLY
701011-04	OFF-RD MOVING OPERATIONS, 2L, 2W, DAY ONLY
701101-04	OFF-RD OPERATIONS, MULTILANE, 15' TO 24' FROM PAVEMENT EDGE
701106-02	OFF-RD OPERATIONS, MULTILANE, MORE THEN 15' AWAY
701201-04	LANE CLOSURE, 2L, 2W, DAY ONLY, FOR SPEEDS >= 45MPH
701400-07	APPROACH TO LANE CLOSURE FREEWAY/EXPRESSWAY
701406-08	LANE CLOSURE FREEWAY/EXPRESSWAY DAY OPERATIONS ONLY
701428	TRAFFIC CONTROL SETUP AND REMOVAL FREEWAY/EXPRESSWAY
701606-09	URBAN LANE CLOSURE, MULTILANE, 2W WITH MOUNTABLE MEDIAN
701701-09	URBAN LANE CLOSURE, MULTILANE, INTERSECTION
701901-03	TRAFFIC CONTROL DEVICES
814006-02	DOUBLE HANDHOLES
878001-09	CONCRETE FOUNDATION DETAILS

FILE HOME :	USER WAME = steffenmk	DESIGNED -	REVISEO -	
cs/pw_work/skictot/steffenork/d0360593/07	74643-sht-gennote.dgn	DRAWN -	REVISEO ~	
	PLOT SCALE = 188,0898 17 10.	CHECKED -	REVISED -	
Dofoult	PLOT DATE = 6/26/2014	DATE -	REVISEO -	

STATE OF ILLINOIS								
DEPARTMENT	0F	TRANSPORTATION						

······································	F.A. RYÉ.	SECTION	COUNTY	TOTAL	SHEET NO.
GENERAL NOTES	VAR	D7 ITS 2014		72	2
	· EFFIN	GHAM, CUMBERLAND	CONTRACT		4643
SHEET OF SHEETS STA. TO STA.	CLARK & LAWRENCE ILLINOIS FEO. AID PROJECT				

GENERAL NOTES

- I. PLAN DIMENSIONS AND DETAILS RELATIVE TO THE EXISTING PLANS ARE SUBJECT TO ROUTINE VARIATIONS. THE CONTRACTOR SHALL FIELD VERIFY EXISTING DIMENSIONS AND DETAILS AFFECTING NEW CONSTRUCTION AND MAKE NECESSARY APPROVED ADJUSTMENTS PRIOR TO CONSTRUCTION OR ORDERING OF MATERIALS. SUCH VARIATIONS SHALL NOT BE CAUSE FOR ADDITIONAL COMPENSATION FOR A CHANGE IN THE SCOPE OF THE WORK, HOWEVER, THE CONTRACTOR WILL BE PAID FOR THE QUANTITY FURNISHED BASED UPON THE UNIT BID PRICE FOR THE WORK.
- 2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING UTILITY PROPERTY FROM CONSTRUCTION OPERATIONS AS OUTLINED IN ARTICLE 107.31 OF THE STANDARD SPECIFICATIONS. THE "JULIE" NUMBER IS 1-800-892-0123. A MINIMUM OF FORTY-FIGHT (48) HOURS ADVANCE NOTICE IS REQUIRED.
- 3, EXISTING UTILITY LOCATION INFORMATION IS NOT SHOWN ON THE PLAN SHEETS. THE LOCATION OF ALL UTILITIES AND PRIVATELY OWNED FACILITIES SHALL BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO THE INSTALLATION OF ANY COMPONENTS. THE CONTRACTOR SHALL VERIFY EXISTING FIELD CONDITIONS AND TERRIAN PRIOR TO COMMENCING WORK ON THE PROJECT.
- 4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING EXISTING IDOT ELECTRICAL FACILITIES AT HIS/HER OWN EXPENSE IF REQUIRED. THE CONTRACTOR SHALL ALSO BE LIABLE FOR ANY DAMAGE TO IDOT FACILITIES RESULTING FROM INACCURATE LOCATING.
- 5. ELECTRICAL WORK SHALL CONFORM WITH NATIONAL, STATE, AND LOCAL CODES.
- 6. ELECTRICAL CABLE WILL BE MEASURED FOR PAYMENT IN ACCORDANCE WITH ARTICLE 873.04.
- 7. THE COMMUNICATION VAULT SHALL BE CONSTRUCTED SO THAT THE TOP OF THE FRAME WILL BE FLUSH WITH THE SURFACE OF THE MEDIAN, SIDEWALK, OR GROUND LINE. COMMUNICATION VAULTS SHALL BE INSTALLED AT 2000 FT INTERVALS, OR AS SPECIFIED BY THE ENGINEER.
- 8. POTHOLING TO LOCATE EXISTING UNDERGROUND UTILITIES SHALL BE INCLUDED IN THE CONTRACT BID PRICE FOR THE UNDERGROUND CONDUIT PAY ITEMS.
- 9. REMOVAL AND REPLACEMENT OF EXISTING SIDEWALK, PAVEMENT, AND ISLANDS DAMAGED DUE TO CONTRACTOR OPERATIONS WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE CONTRACT BID PRICE FOR THE UNDERGROUND CONDUIT PAY ITEMS.
- 10. NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR PLACING CONDUIT AT GREATER THAN 3 FT. MINIMUM DEPTH TO AVOID OBSTACLES SUCH AS UNDERGROUND UTILITIES AND DIRECTIONAL DRILLING BELOW THE CSX TRANSPORTATION RAILWAY.
- 11. NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR PLACING CONDUIT CASING FOR UNDERGROUND UTILITIES AND DIRECTIONAL DRILLING BELOW THE CSX TRANSPROATAION RAILWAY.
- 12. THE CONTRACTOR IS RESPONSIBLE FOR THE COST OF UNCOVERING OR HAND DIGGING AROUND UTILITIES AS NECESSARY. THIS COST OF THIS WORK SHALL BE INCLUDED IN THE UNIT PRICES FOR THE CONDUITS.
- 13. REINFORCEMENT BARS SHALL CONFORM TO THE REOUIREMENTS OF ASTM A 706 GR 60. SEE SPECIAL PROVISIONS.
- 14. ANY REFERENCE TO A STANDARD IN THESE PLANS SHALL BE INTERPRETED TO MEAN THE EDITION AS INDICATED BY THE SUBNUMBER SHOWN IN THE LIST OF STANDARDS OR THE COPY INCLUDED IN THESE PLANS.
- 15. THE LOCATIONS FOR CAMERA POLES AND CONCRETE FOUNDATIONS ARE PROVIDED FOR REFERENCE ONLY. THE ENGINEER OF TRAFFIC SHALL BE NOTIFIED FOR LOCATION VERIFICATION BEFORE INSTALLATION.
- 16. SPLICING INTO EXISTING FIBER SHALL BE PAID FOR SEPERATELY IN ACCORDANCE WITH ARTICLE 109.05.

- 17. THE CONTRACTOR SHALL INSTALL A "12 (XLP-TYPE USE) TRACER WIRE ALONG WITH THE FIBER OPTIC CABLE FOR LOCATING PURPOSES. THE TRACER WIRE SHALL BE CONTINUOUS AND BE ACCESSIBLE FROM THE HANDHOLES. THE COST OF FURNISHING AND INSTALLING THE TRACER WIRE SHALL BE INCLUDED IN THE UNIT BID PRICE FOR THE FIBER OPTIC CABLE IN CONDUIT PAY ITEM.
- 18. THE CONTRACTOR SHALL FURNISH AND INSTALL ALL ITEMS REQUIRED TO ATTACH THE CONDUITS AND JUNCTION BOXES TO THE STRUCTURE, INCLUDING, BUT NOT LIMITED TO UNI-STRUT, BRACKETS, SEAL-TITE, LBS, FITTINGS, HARDWARE, AND OTHER MISCELLANEOUS ITEMS. THESE ITEMS WILL NOT BE PAID FOR SEPERATELY, BUT SHALL BE INCLUDED IN THE BID PRICE FOR THE CONDUIT ATTACHED TO STRUCTURE PAY ITEM.
- 19. CONDUIT ATTACHMENT BRACKETS SHALL BE INSTALLED AT 8 FT. SPACINGS (MAXIMUM) ON STRUCTURES.
- 20. ALL CONDUIT ATTACHMENT BRACKETS SHALL BE FULLY GALVANIZED AND ALL HARDWARE SHALL BE EITHER GALVANIZED OR STAINLESS STEEL.
- 21. THE CONTRACTOR SHALL FURNISH AND INSTALL EXPANSION/DEFLECTION COUPLINGS (OR OTHER EQUIPMENT AND METHODS AS APPROVED BY THE ENGINEER) FOR ALL BRIDGE JOINTS AS REQUIRED AND DIRECTED BY THE ENGINEER.
- 22. ALL SEAL-TITE CONDUIT SHALL BE NON-METALLIC AND SHALL INCLUDE CONNECTORS WITH INTERGRAL STAINLESS STEEL KELLUM GRIPS AT THE ENDS FOR INCREASED STRENGTH AND DURABILITY.
- 23. THE CONTRACTOR SHALL GROUND ALL EXPOSED STEEL CONDUITS IN ACCORDANCE WITH NEC REQUIREMENTS. THE CONTRACTOR SHALL MAINTAIN THE CONTINUITY OF THE GROUND SYSTEM WHEN USING NON-METALLIC BY INSTALLING A *6 GROUNDING CONDUCTOR INSIDE THE SEAL-TITE AND BONDING THIS WIRE TO THE GALVANIZED STEEL CONDUITS AT EACH END. THE COST OF THIS WORK SHALL BE INCLUDED IN THE UNIT BID PRICE FOR THE GALVANIZED STEEL CONDUIT PAY ITEMS.
- 24. THE CONTRACTOR SHALL INSTALL THREAD LOCKER ON ALL ATTACHED CONDUIT THREADED CONNECTIONS TO PREVENT LOOSENING THROUGH VIBRATION.
- 25. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING EXISTING FIELD TILE AND UNDERDRAIN LOCATIONS. THE CONTRACTOR SHALL MAKE AN EFFORT TO MINIMIZE DAMAGE TO THESE FACILITIES DURING THE INSTALLATION OF CONDUIT AND COMMUNICATION VAULTS. IN THE EVENT THAT THESE FACILITIES ARE DAMAGED, THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAKING REPAIRS TO THESE ITEMS TO RESTORE FUNCTIONALITY TO THE SATISFACTION OF THE ENGINEER. THE COST OF THIS WORK SHALL BE INCLUDED IN THE BID PRICE FOR UNDERGROUND CONDUIT.
- 26. THE CONTRACTOR, AT HIS OPTION AND WITH THE APPROVAL OF THE DEPARTMENT, MAY ELECT TO DIRECTIONALLY BORE CONDUIT UNDER A STRUCTURE.
- 27. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY MOWING, BRUSH AND SHRUB REMOVAL, AND SHALL DISPOSE OF ALL REMOVED ITEMS OFF OF THE JOB SITE. THE COST OF THIS WORK SHALL BE INCLUDED IN THE BID PRICES FOR THE CONDUIT PAY ITEMS.
- 28. THE CONTRACTOR SHALL PLAN AND CONDUCT CONDUIT AND FIBER INSTALLATION OPERATIONS TO MINIMIZE THE NUMBER OF INTERSTATE AND ROAD LANE CLOSURES AND TO MINIMIZE TRAFFIC DISRUPTIONS AND DELAYS FOR THE MOTORING PUBLIC.
- 29. IF HANDHOLES ARE PLACED IN SIDEWALK THEY SHALL BE FLUSH, WITHOUT A VERTICAL DISCONTINUITY OF GREATER THEN A 1/4" OR LONGITUDINAL GAP GREATER THEN 1/2" AND SHALL NOT BE INSTALLED MONOLITHICALLY WITH THE SIDEWALK.

COMMITMENTS

- I. ALL EXCAVATED MATERIAL SHALL REMAIN ON SITE OR BE DISPOSED AS OF DIRECTED BY THE ENGINEER ACCORDING TO ARTICAL 202.03.
- 2. ALL WORK REQUIRED FOR HORIZONTAL DIRECTIONAL DRILLING (HDD) UNDER CSX TRANSPORATION RAILWAY SHALL BE ACCORDING TO SECTION 107.12 OF THE STANDARD SPECIFICATIONS FOR PROTECTION OF RAILROAD TRAFFIC AND PROPERTY.
- 3. THE CONTRACTOR SHALL PROVIDE TO THE CSX TRANSPORTATION THE DRILLER'S QUALIFICATIONS, A HDD PLAN INCLUDING CONDUIT SPECIFICATIONS FOR CARRIER AND CASING, A DETAILED FRACTURE MITIGATION PLAN, A SURVEY GRID LINE FOR TRACKING AND FINAL DOCUMENTATION OF THE ACTUAL LOCATION OF THE CONDUIT PLACED DURING THE DRILLING OPERATION, AND ALL OTHER INFORMATION REQUIRED FOR APPROVAL BY THE RAILROAD.
- 4. THE CONTRACTOR SHALL CONFINE HIS OPERATIONS TO THE AREA LOCATED INSIDE THE PERMANENT EASEMENT AND RIGHT OF WAY LIMITS SHOWN IN THE PLANS. EXCEPT FOR THE PROPOSED CONSTRUCTION OF THE REQUIRED GRID SURVEY LINE, THE MONITORING, TRACKING AND DOCUMENTATION OF THE HDD. THE CONTRACTOR'S OPERATIONS SHALL NOT INVOLVE ENCROACHMENT OF EQUIPMENT, BORE PITS, OR HANDHOLES ONTO THE CSX RAILROAD RIGHT OF WAY.
- 5. SOME EXISTING STRUCTURE INFORMATION USED IN THESE PLANS WERE DEVELOPED FROM OFFICE RECORDS OR OTHERWISE HISTORICAL DATA. FINAL PLACEMENT OF BORE PITS AND HANDHOLES SHALL BE DETERMINED BY THE ENGINEER AS TO NOT ENCROACH ON CSX TRANSPORTATION RAILROAD RIGHT OF WAY OR INTO THE RAILROAD'S ZONE OF INFLUENCE.

THE FOLLOWING MIXTURE REQUIREMENTS ARE APPLICABLE FOR THIS PROJECT:

MIXTURE USE:

APPLICATION: STABILIZED SUBBASE-HOT MIX ASPHALT (VARIABLE DEPTH)
PG GRADE: PG 64-22

DESIGN AIR VOIDS: 4.0% @ Ndesign = 30

MIXTURE COMPOSITION: IL-19.0L

FRICTION AGGREGATE: N/A

1				
ı	FILE MANE /	USER NAME + stoffermk	DESIGNED -	REVISED -
1	allpw.work\pwcdat\ateffennh\da360593\B?	74613-sht-gennate.dgn	DRAWN -	REVISED -
		PLOT SCALE = 188,0000 1/ in.	CHECKED -	REVISED -
1	Default	PLOT DATE + 6/26/2014	DATE -	REVISED -

STATE OF ILLINOIS								
DEPARTMENT	0F	TRANSPORTATION						

GENERAL NOTES				F.A. RTE.	SECTION	ÇÇUNTY	TOTAL SHEETS	SHEET NO.	
				VAR	D7 ITS 2014	•	72	3	
					· EFFIN	GHAM, CUMBERLAND	CONTRAC	NO. 7	4643
SCALE:	SHEET	QF ·	SHEETS STA.	TO STA.	CLARK & LAWRENCE ILLINOIS FED. AID PROJECT				

		EL INOIC OCCUPATION OF TRANSCOOPLATION	13 10403	CONSTRUCTION CODE					
	_	ILLINOIS DEPARTMENT OF TRANSPORTATION		TOTAL	100% STATE	100% STATE	100% STATE	100% STATE	
	SUMN	MARY OF QUANTITIES			0021 RURAL	0021 RURAL	0021 RURAL	0021 RURAL	
	CODE NO	ITEM	UNIT	QUANTITIES	EFFINGHAM	CUMBERLAND	CLARK	LAWRENCE	
	X0327763	ELECTRICAL WORK, IDOT DISTRICT 7 HEADQUARTERS	L SUM	1	1			:	
	42400100	PORTLAND CEMENT CONCRETE SIDEWALK 4 INCH	SQ FT	200	200			:	
	44000600	SIDEWALK REMOVAL	SQ FT	200	200				
	63000001	STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT	FOOT	3287.5	1312.5	1337.5	637.5	:	
		POSTS	THE PARTY OF THE P						
	63100045	TRAFFIC BARRIER TERMINAL. TYPE 2	EACH	15	6	6	3		
	63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL)	EACH	15	6	6	3		
		TANGENT						:	
	67100100	MOBILIZATION	L SUM	1	0.33	0.33	0.17	0.1	
-	73300300	OVERHEAD SIGN STRUCTURE - SPAN, TYPE [][-A	FOOT	386	152	152	82	· · · · · · · · · · · · · · · · · · ·	
		(5'-0" X 7'-0")			Transportation of the Control of the	TO THE PARTY OF TH		:	
	73301805	OVERHEAD SIGN STRUCTURE - BUTTERFLY, TYPE	FOOT	37.5	HAPPIN AND AND AND AND AND AND AND AND AND AN	and the second s		37.5	
		III-F-A			And	1			
	73301810	OVERHEAD SIGN STRUCTURE WALKWAY, TYPE A	FOOT	168	82	86		: : :	
	73301900	OVERHEAD SIGN STRUCTURE WALKWAY - BUTTERFLY.	FOOT	7				7	
	To a series of the series of t	TYPE A			The state of the s			:	
-	73400200	DRILLED SHAFT CONCRETE FOUNDATIONS	CU YD	115.8	42.	42.8	21.6	9.3	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCALE: SHEET OF SHEETS STA.

TO STA.

F.A. SECTION COUNTY TOTAL SHEET NO.

VAR D7 ITS 2014 - 72 4

• EFFINGHAM & CUMBERLAND CONTRACT NO. 74643

CLARK & LAWRENCE JULINOIS/FED, AID PROJECT

······································			ITS FUNDS	T	CONCTON	CTION CODE	
	ILLINOIS DEPARTMENT OF TRANSPORTATION		100% STATE	100% STATE	100% STATE	100% STATE	
SIIM	MARY OF QUANTITIES	TOTAL	0021	0021	0021	0021	
JUIVIII	WART OF QUARTITIES		QUANTITIES	RURAL	RURAL	RURAL	RURAL
CODE NO	ITEM	UNIT		EFFINGHAM	CUMBERLAND	CLARK	LAWRENCE
78200410	GUARDRAIL MARKERS, TYPE A	EACH	60	24	24	12	
78201000	TERMINAL MARKER - DIRECT APPLIED	EACH	15	6	6	3	
80400100	ELECTRIC SERVICE INSTALLATION	EACH	6	2	2	1	1
					The state of the s		
81028350	UNDERGROUND CONDUIT, PVC, 2" DIA. UNDERGROUND CONDUIT, COILABLE	FOOT	15,025	14.725	300		
31028750	NONMETALLIC CONDUIT, 2" DIA.	FOOT	400	400			
81028370	UNDERGROUND CONDUIT, PVC, 3" DIA.	FOOT	3635	1130	2070	245	190
81100600	CONDUIT ATTACHED TO STRUCTURE, 2" DIA.,	FOOT	55	55			:
anna a tha airlean ann airlean ann airlean ann ann airlean ann ann airlean ann airlean ann airlean ann airlean	GALVANIZED STEEL						
81300550	JUNCTION BOX, STAINLESS STEEL, ATTACHED TO	EACH	8	8	***************************************		:
	STRUCTURE, 12" X 12" X 6"		**************************************		11-12-13-14-13-14-13-14-13-14-13-14-13-14-13-14-13-14-13-14-13-14-13-14-13-14-13-14-13-14-13-14-13-14-13-14-13		:
81300948	JUNCTION BOX, STAINLESS STEEL, ATTACHED TO	EACH	, mare				
	STRUCTURE, 24" X 24" X 10"						
0+700+70	CLEATING CARLE IN COMPULY COOK (VI.D. TWO	FAAT	.0.000			202	7.0
81702130	USE) I/C NO. 6	FOOT	18, 280	17,025	1255	980	760
7301795	ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 3 IC	FOOT	10, 755	3570	5880	735	570
87800415	CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	122	122			
						,	
87900100	DRILL EXISTING FOUNDATION	EACH	3	3			:
87900200	DRILL EXISTING HANDHOLE	EACH	28	28	***************************************		
			T			~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	

DESIGNED -DRAWN -CHECKED -DATE -REVISED -FILE NAME = USER NAME = asoffermix PLOT SCALE = 58,8888 1/ in. PLOT DATE = 5/22/2814 REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES SCALE: SHEET OF SHEETS STA.

TO STA.

F.A. SECTION COUNTY TOTAL SHEETS NO.

VAR D7 ITS 2014 - 72 5

• EFFINGHAM & CUMBERLAND CONTRACT NO. 74643

CLARK & LAWRENCE INLINIOSI FED. AID PROJECT

			TTS FUNDS				
	ILLINOIS DEPARTMENT OF TRANSPORTATION			2004 07176		CTION CODE	
			TOTAL	100% STATE	100% STATE	100% STATE	100% STATE
SHM	MARY OF QUANTITIES		IUIAL	0021	0021	0021	0021
J J 1111	0. 40/		QUANTITIES	RURAL	RURAL	RURAL	RURAL
CODE NO	ITEM	UNIT		EFFINGHAM	CUMBERLAND	CLARK	LAWRENCE
x0323909	DATA NETWORK PORT ADAPTER	EACH	2	l	1		
x0323920	POLE MOUNTED EQUIPMENT CABINET, TYPE B	546::			2	•	
X0323920	FOLE MOUNTED EQUIFMENT CASTRET, TIPE B	EACH	6	2	2	4	:
X0323923	SUPPORT EQUIPMENT AND MAINTENANCE	L SUM	wind	0.33	0.33	0.17	0.1
X0324597	CLOSED CIRCUIT TELEVISION CABINET	EACH	8	8		7,7	
						-	
X0324603	CIRCUIT BREAKER, 1-POLE, 20 AMP, 120V IN EXISTING TSC CABINET	EACH	10	10	·		
							· :
X0325077	FIBER OPTIC UTILITY MARKER	EACH	27	27			
X0325485	TRUSS MOUNTED LED DYNAMIC MESSAGE SIGN	EACH	6	2	2	T A	1
						and the second	
X0325922	CELLULAR MODEM	EACH	4	1	1	-	
x0326252	COMPUTER WORKSTATION	EACH	5	5			; ; ; ;
XU326253	LCD MONITOR	EACH	11	****		And the second s	
X0326254	LAPTOP COMPUTER	EACH	3	3		7	:

×0326255	APPLICATION SERVER	EACH	1				<u>. </u>
x0326258	NETWORK SECURITY APPLIANCE	EACH	1	1			
				estation and the second			
X0326260	ETHERNET SWITCH (MATERIAL ONLY)	EACH		1		***************************************	

11

-	FILE NAME =	USER NAME = steffennk	DESIGNED -	REVISEO -	_
-	c:\pv_kork\pvidat\st#ff#nmk\d0360593\DX	74643-sht-908.dgn	DRAWN -	REVISED ~	
-		PLOT SCALE = 58.8282 '/ in.	CHECKED -	REVISED -	
-	Cafault.	PLOT DATE + 5/22/2814	DATE -	REVISED	

STATI	E OF ILLINOIS	
DEPARTMENT	OF TRANSPORTATION	

		0150 550 6 DV	AF A!!				F.A. RTE.	SECTION	COUNTY	TOTAL	SHEET NO.
		SUMMARY	OF QUA	MILLES			VAR	D7 1TS 2014	•	72	6
		 					• EFF1	NGHAM & CUMBERLAND	CONTRAC	T NO.	74643
CALE;	SHEET	OF :	SHEETS	STA,	TO	STA,	CLARK	& LAWRENCE ILLINOIS FED.	ALO PROJECT	······································	*****

	ILLINOIS DEPARTMENT OF TRANSPORTATION		\$15 FUNDS	100% STATE	CONSTRU- 100% STATE	CTION CODE 100% STATE	100% STATE
SUMN	MARY OF QUANTITIES		TOTAL	0021 RURAL	0021 RURAL	0021 RURAL	0021 RURAL
CODE NO	ITEM	UNIT	OZAIVI SILS	EFFINGHAM	CUMBERLAND	CLARK	LAWRENCE
X0326263	EQUIPMENT CABINET	EACH	1	1			
x0326267	VIDEO SERVER	EACH	4	4			
X0326812	CAT 5 ETHERNET CABLE	FOOT	435	435			:
X7010410	SPEED DISPLAY TRAILER	CAL MO	16		5	3	
X0326905	CLOSED CIRCUIT TELEVISION DOME CAMERA, IP	EACH	14	10	2	1	1
	BASED						:
X0327121	CAMERA POLE, 55 FT	EACH	5	5			
X3120005	STABILIZED SUBBASE - HOT-MIX ASPHALT	TON	340	160	180		:
	(VARIABLE DEPTH)						
x7010216	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	L SUM	1	0.33	0.33	0.17	0.1
X8620200	UNINTERRUPTABLE POWER SUPPLY, SPECIAL	EACH	1	t			
X8710029	FIBER OPTIC CABLE 24 FIBERS, SINGLE MODE	FOOT	18,770	18,420	350		
X8710050	FIBER OPTIC ETHERNET DROP AND REPEAT SWITCH	EACH	19	18	1		
Z0033052	COMMUNICATIONS VAULT	EACH	29	25	2	î	1
Z0048665	RAILROAD PROTECTIVE LIABILITY INSURANCE	L SUM	1	a.			

* SPECIALTY ITEMS

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCALE: SHEET OF SHEETS STA.

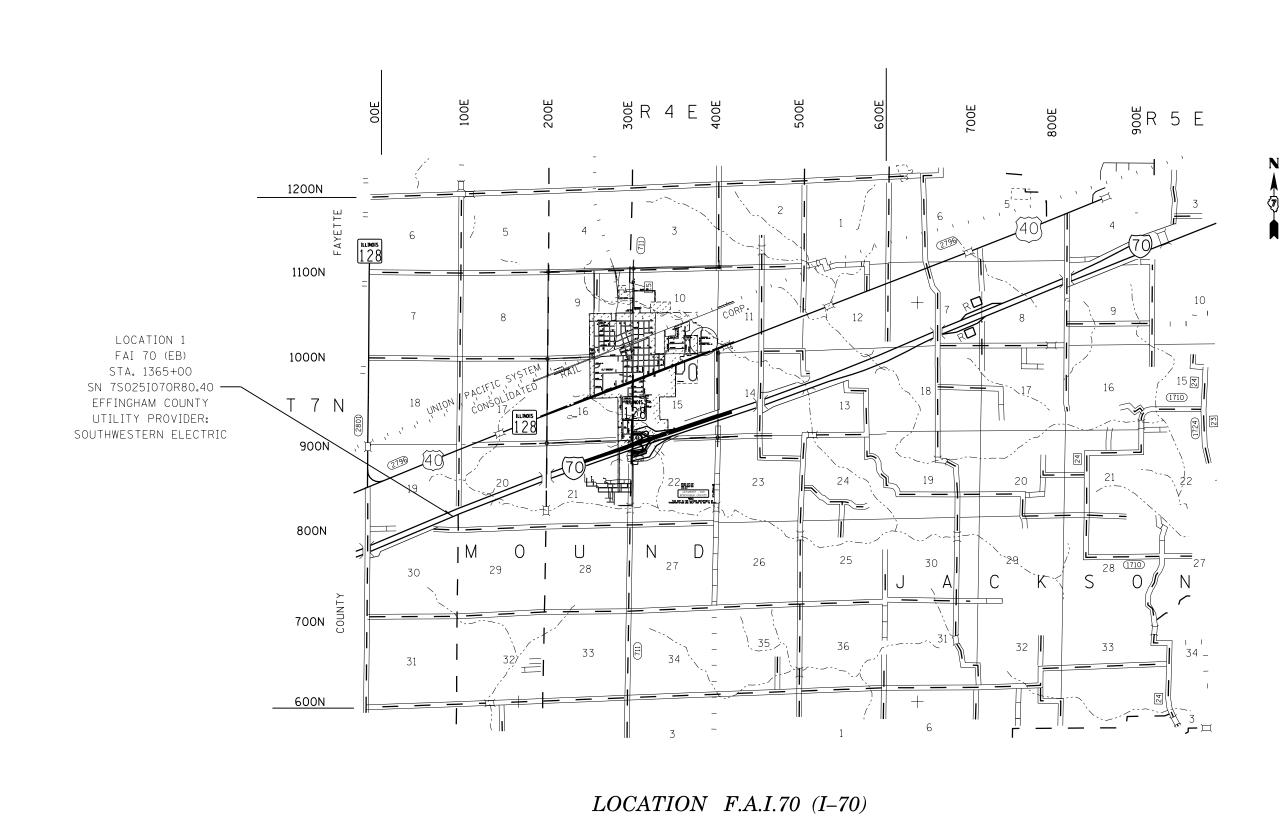
TO STA.

F.A. SECTION COUNTY SHEETS NO.

VAR D7 ITS 2014 • 72 7

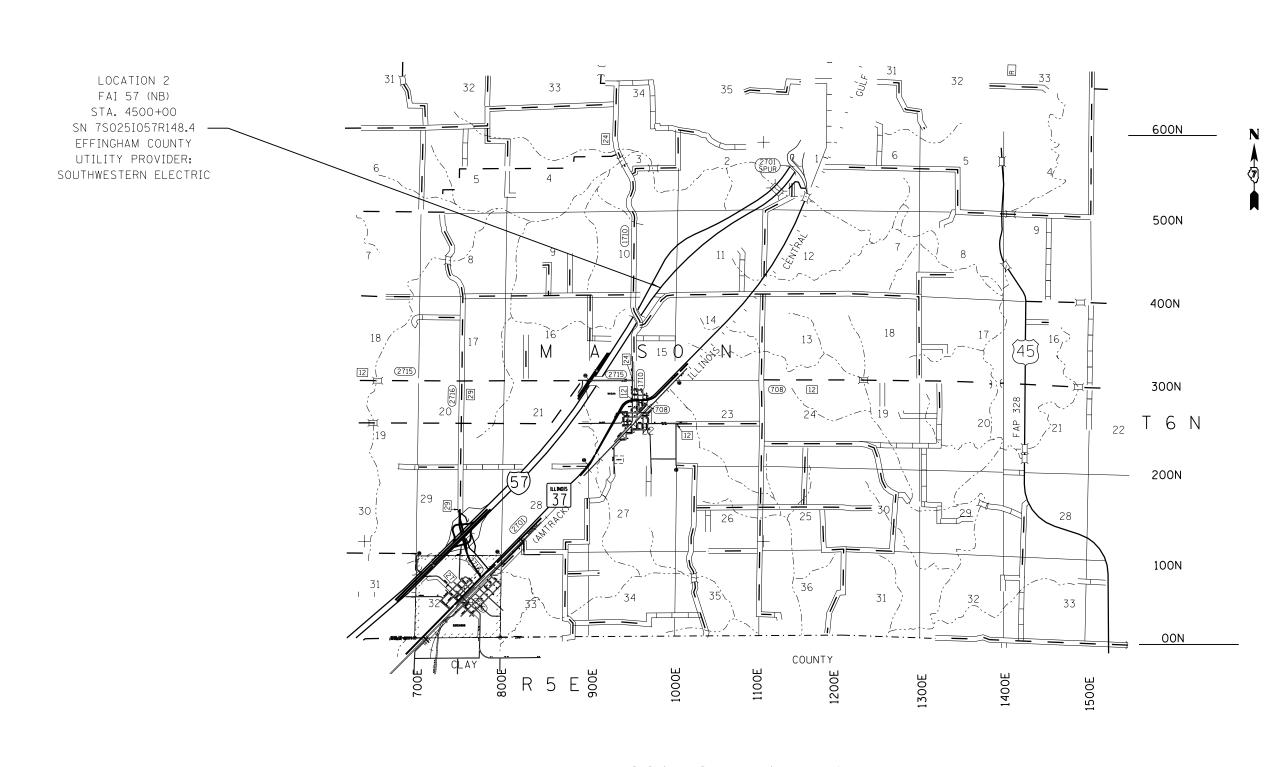
• EFFINGHAM & CUMBERLAND CONTRACT NO. 74643

CLARK & LAWRENCE | ILLINOISIFED. AID PROJECT



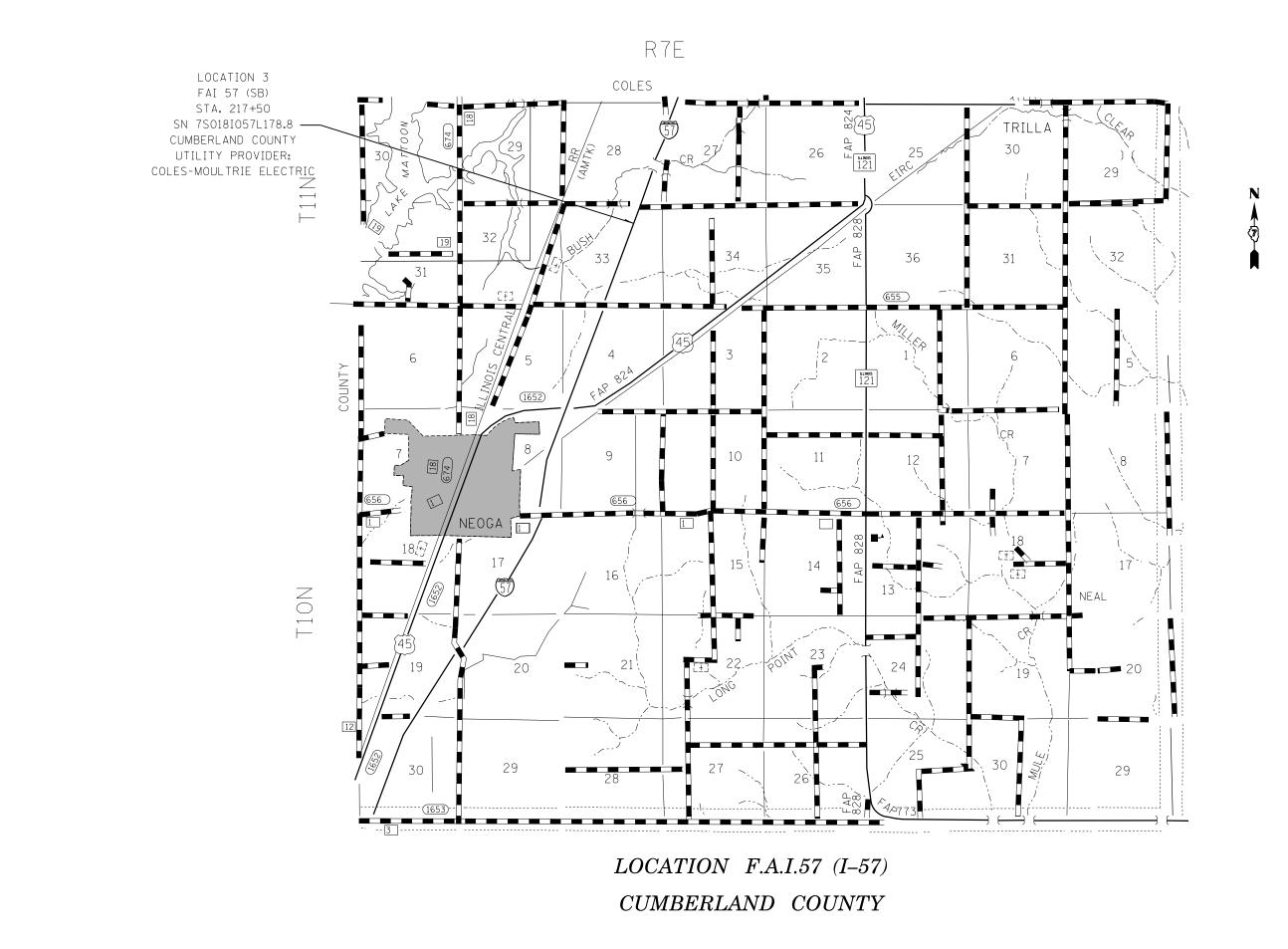
EFFINGHAM COUNTY

FILE NAME =	USER NAME = steffenmk	DESIGNED -	REVISED -				PROJECT	T LOCATIO	ON MAP		F.A.	SECTION	COUNTY TOTAL SH	HEET NO.
c:\pw_work\pwidot\steffen	mk\d0360593\D774643-sht-loc.dgn	DRAWN -	REVISED -	STATE OF ILLINOIS						41	VAR	D7 ITS 2014	• 72	8
	PLOT SCALE = 100.0000 '/ in.	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION	EFFINGHAM COUNTY (LOCATION 1)						* EFF#	NGHAM, CUMBERLAND	CONTRACT NO. 746	643
Default	PLOT DATE = 5/22/2014	DATE -	REVISED -		SCALE:	SHEET	OF	SHEETS	STA.	TO STA.	CLAF	RK & LAWRENCE ILLINOIS FED.	AID PROJECT	

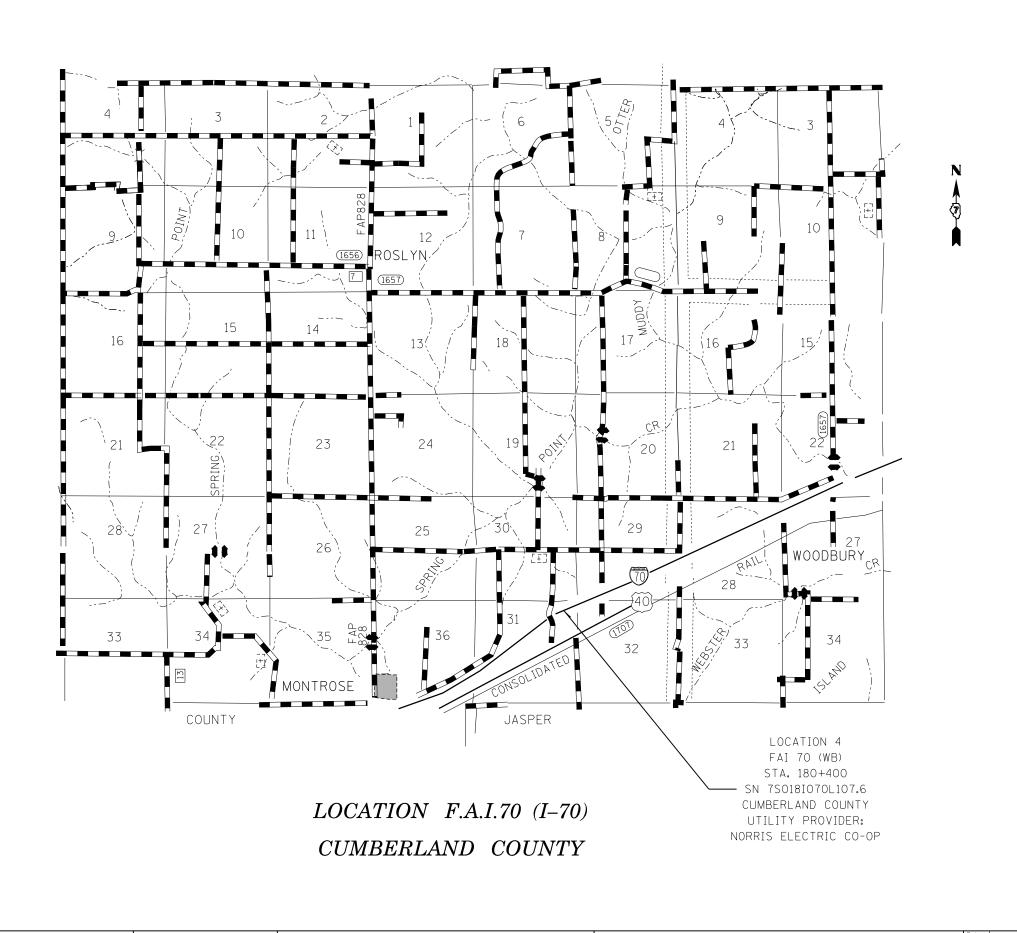


LOCATION F.A.I.57 (I–57) EFFINGHAM COUNTY

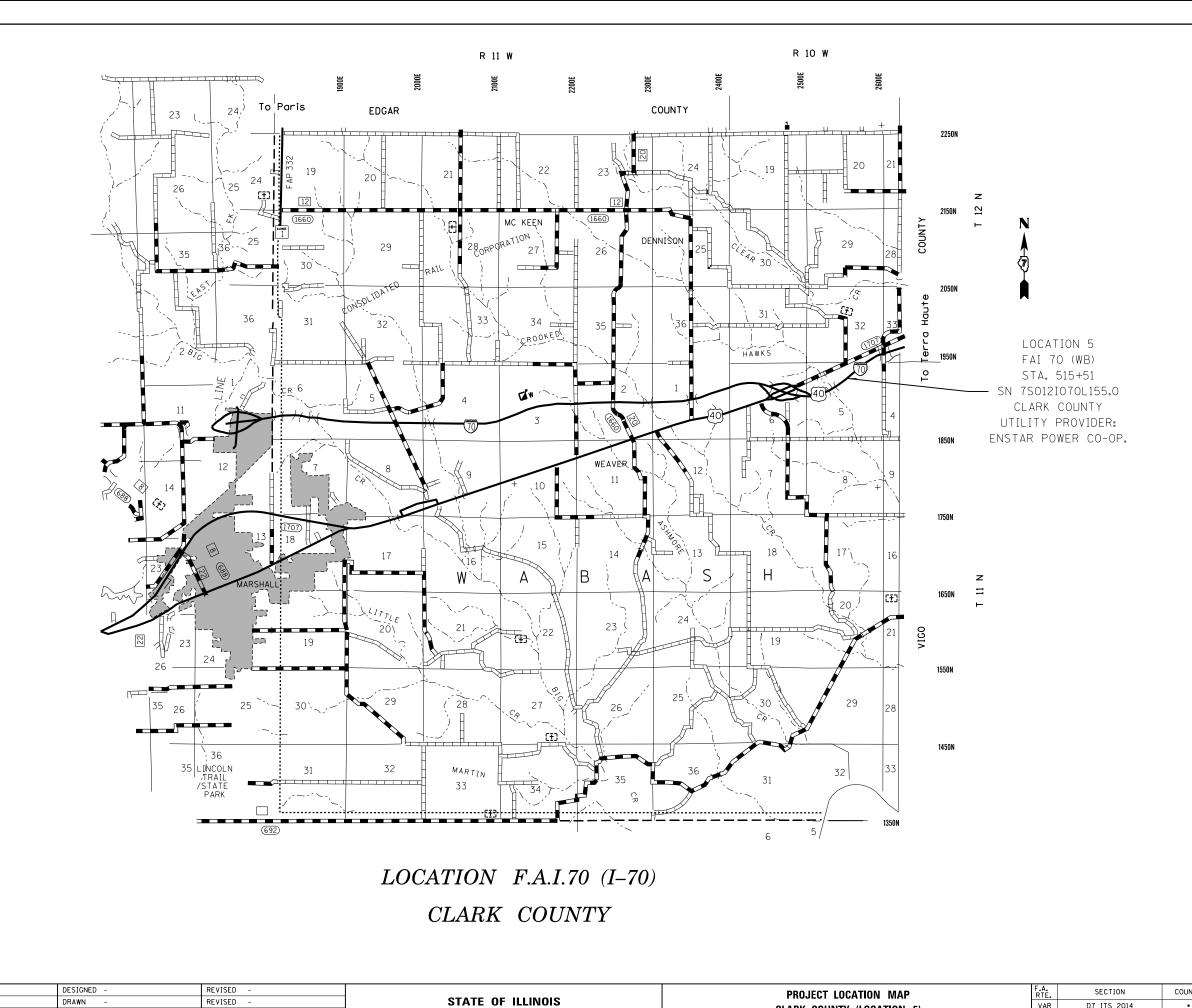
FILE NAME =	USER NAME = steffenmk	DESIGNED -	REVISED -				PROJECT	LOCATIO	N MAP		F.A.	SECTION	COUNTY	TOTAL SHEET
c:\pw_work\pwidot\steffenmk\d0360593\D3	74643-sht-loc.dgn	DRAWN -	REVISED -	STATE OF ILLINOIS	1						VAR	D7 ITS 2014	+ + + + +	72 9
	PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION	EFFINGHAM COUNTY (LOCATION 2)					* EFFING	HAM. CUMBERLAND	CONTRACT	NO. 74643	
Default	PLOT DATE = 5/22/2014	DATE -	REVISED -		SCALE:	SHEET	OF	SHEETS	STA.	TO STA.	CLARK	& LAWRENCE ILLINOIS FED.	AID PROJECT	



FILE NAME = USER NAME = steffenmk DESIGNED -REVISED SECTION PROJECT LOCATION MAP STATE OF ILLINOIS 74643-sht-loc.dgn DRAWN -REVISED VAR D7 ITS 2014 CUMBERLAND COUNTY (LOCATION 3) **DEPARTMENT OF TRANSPORTATION** CHECKED -REVISED * EFFINGHAM, CUMBERLAND CLARK & LAWRENCE | ILLINOIS | FED. PLOT DATE = 5/22/2014 DATE SHEETS STA.



FILE N	AME =	USER NAME = steffenmk	DESIGNED -	REVISED -			F	PROJECT	LOCATION MAP		RTE.	SECTION	COUNTY	SHEETS	NO.
c:/pw-v	work\pwidot\steffenmk\d0360593\D7	74643-sht-loc.dgn	DRAWN -	REVISED -	STATE OF ILLINOIS					4)	VAR	D7 ITS 2014		72	11
		PLOT SCALE = 100.0000 '/ in.	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION		COMBE	KLAND	COUNTY (LOCATION	4)	* FFFIN		CONTRAC	CT NO. 7	4643
Defaul	t	PLOT DATE = 5/22/2014	DATE -	REVISED -		SCALE:	SHEET	OF	SHEETS STA.	TO STA.	CLAF	RK & LAWRENCE ILLINOIS FED. A	ID PROJECT		



DEPARTMENT OF TRANSPORTATION

• 72 12 CONTRACT NO. 74643

D7 ITS 2014

* EFFINGHAM, CUMBERLAND CONTF

VAR

TO STA.

CLARK COUNTY (LOCATION 5)

OF SHEETS STA.

SHEET

USER NAME = steffenmk

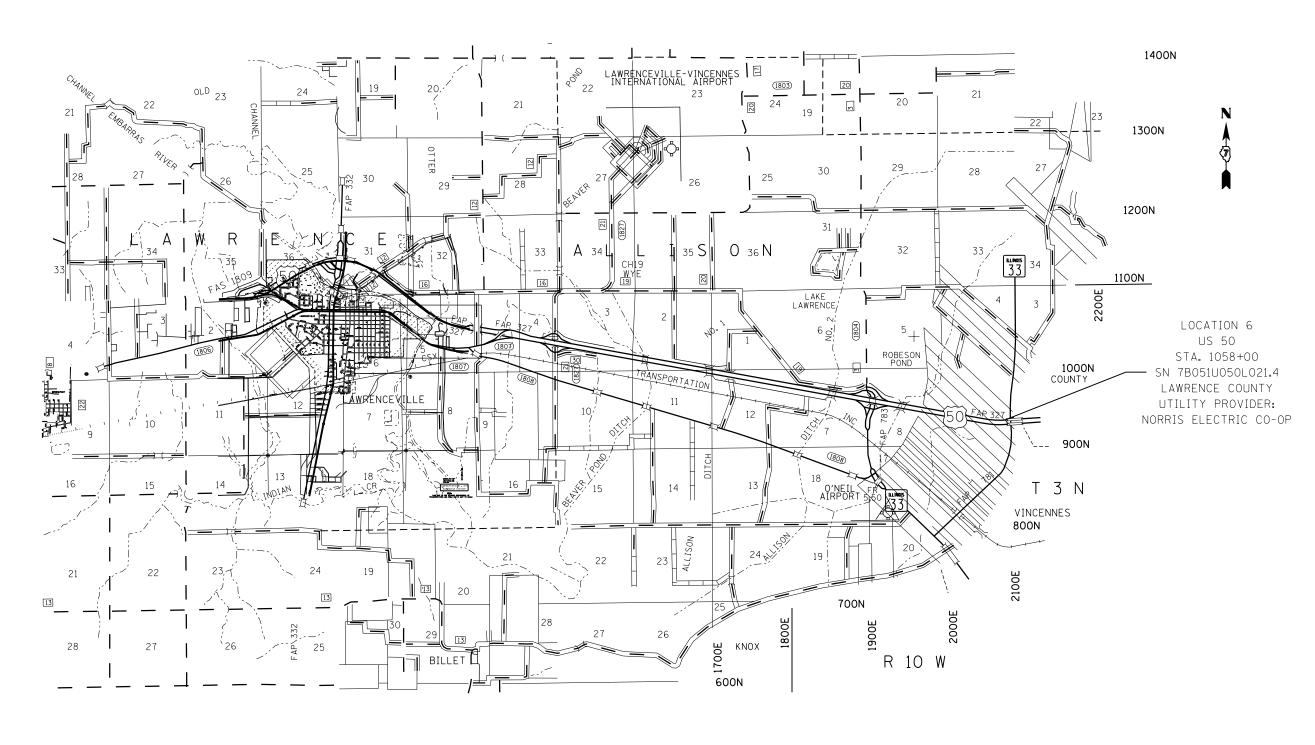
PLOT DATE = 5/22/2014

CHECKED -

DATE

REVISED

74643-sht-loc.dgn



LOCATION FAP 327 (US 50) LAWRENCE COUNTY

	FILE NAME =	USER NAME = steffenmk	DESIGNED -	REVISED -			P	PROJECT	LOCATI	ON MAP		RTF	SECTION	COUNTY	SHEET NO.
	c:\pw_work\pwidot\steffenmk\d0360593\D7	74643-sht-loc.dgn	DRAWN -	REVISED -	STATE OF ILLINOIS							VAR	D7 ITS 2014		72 13
		PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION		LAWH	SEINGE G	UUNIT	(LOCATION 6)		* FFFIN	GHAM CUMBERLAND	CONTRAC	T NO. 74643
L	Default	PLOT DATE = 5/22/2014	DATE -	REVISED -		SCALE:	SHEET	OF	SHEETS	STA.	TO STA.	CLAR	K & LAWRENCE ILLINOIS FED. A	AID PROJECT	

LCD MONITOR - QTY. 7.0 EACH

- NOTE 1: THE CONTRACTOR SHALL INSTALL ONE PROPOSED LCD CABLE TELEVISION READY MONITOR ON THE WALL OF THE COMMUNICATIONS/RADIO CENTER. THE CONTRACTOR SHALL FURNISH AND INSTALL WALL ANCHORS AND HARDWARE THAT IS SUITED FOR THE INSTALLATION AND RATED FOR THE WEIGHT OF THE LCD MONITORS IN ACCORDANCE WITH THE REQUIREMENTS OF THE LCD BRACKET MOUNT MANUFACTURER. THE MONITORS SHALL BE MOUNTED HORIZONTALLY AND INSTALLED TO THE SATISFACTION OF THE ENGINEER. ALL EXPOSED CABLES SHALL BE NEATLY TRAINED AND INSTALLED INSIDE WIREGUARD.
- NOTE 2: THE CONTRACTOR SHALL INSTALL TWO PROPOSED LCD MONITORS ON THE WALL OF THE

 COMMUNICATIONS /RADIO CENTER. THE CONTRACTOR SHALL FURNISH AND INSTALL WALL ANCHORS

 AND HARDWARE THAT IS SUITED FOR THE INSTALLATION AND RATED FOR THE WEIGHT OF THE

 LCD MONITORS IN ACCORDANCE WITH THE REQUIREMENTS OF THE LCD BRACKET MOUNT

 MANUFACTURER. THE MONITORS SHALL BE MOUNTED HORIZONTALLY AND INSTALLED TO THE

 SATISFACTION OF THE ENGINEER. ALL EXPOSED CABLES SHALL BE NEATLY TRAINED AND

 INSTALLED INSIDE WIREGUARD.
- NOTE 3: THE CONTRACTOR SHALL INSTALL TWO PROPOSED LCD MONITORS ON THE WALL OF THE OPERATIONS

 CONFERENCE AREA. THE CONTRACTOR SHALL FURNISH AND INSTALL WALL ANCHORS AND HARDWARE

 THAT IS SUITED FOR THE INSTALLATION AND RATED FOR THE WEIGHT OF THE LCD MONITORS IN

 ACCORDANCE WITH THE REQUIREMENTS OF THE LCD BRACKET MOUNT MANUFACTURER. THE MONITORS

 SHALL BE MOUNTED HORIZONTALLY AND INSTALLED TO THE SATISFACTION OF THE ENGINEER. ALL

 EXPOSED CABLES SHALL BE NEATLY TRAINED AND INSTALLED INSIDE WIREGUARD.
- NOTE 4: THE CONTRACTOR SHALL INSTALL TWO PROPOSED LCD MONITORS ON THE WALL OF THE OFFICE OF THE TRAFFIC OPERATIONS ENGINEER. THE CONTRACTOR SHALL FURNISH AND INSTALL WALL ANCHORS AND HARDWARE THAT IS SUITED FOR THE INSTALLATION AND RATED FOR THE WEIGHT OF THE LCD MONITORS IN ACCORDANCE WITH THE REQUIREMENTS OF THE LCD BRACKET MOUNT MANUFACTURER. THE MONITORS SHALL BE MOUNTED HORIZONTALLY AND INSTALLED TO THE SATISFACTION OF THE ENGINEER. ALL EXPOSED CABLES SHALL BE NEATLY TRAINED AND INSTALLED INSIDE WIREGUARD.

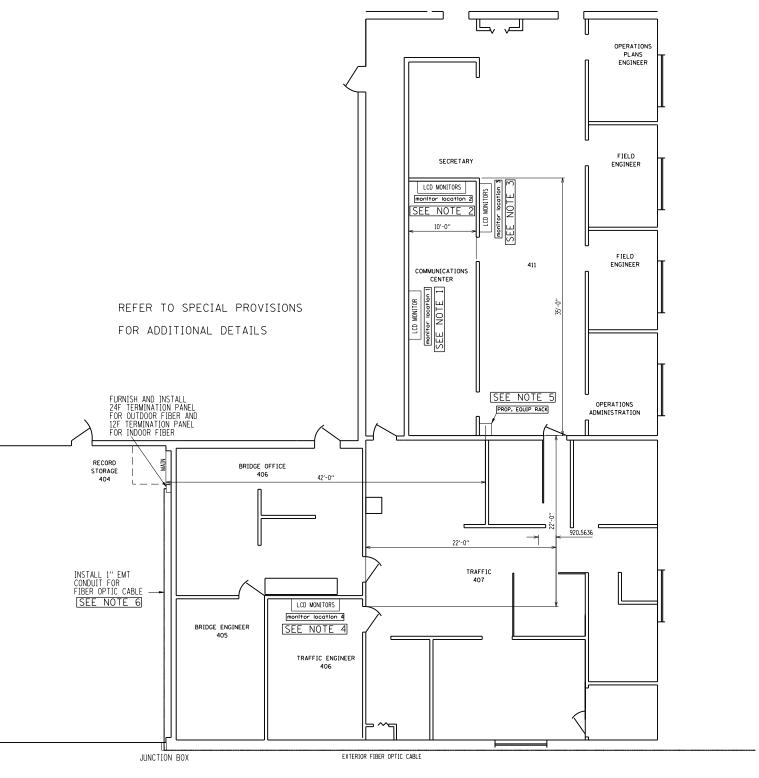
ELECTRICAL WORK, IDOT DISTRICT 7 HEADQUARTERS - 1.0 LUMP SUM

- NOTE 5: THE CONTRACTOR SHALL INSTALL ITS EQUIPMENT CABINET IN THE OPERATIONS CONFERENCE AREA. THE CONTRACTOR SHALL FURNISH AND INSTALL HARDWARE WITH THE REQUIREMENTS THAT IS SUITED FOR THE INSTALLATION IN ACCORDANCE WITH THE REQUIREMENTS OF THE MANUFACTURER. THE EQUIPMENT CABINET SHALL BE INSTALLED TO THE SATISFACTION OF THE ENGINEER. ALL EXPOSED CABLES SHALL BE NEATLY TRAINED IN INSTALLED INSIDE WIREGUARD.
- NOTE 6: THE CONTRACTOR SHALL INSTALL 1" DIAMETER EMT CONDUIT INSIDE THE DISTRICT 7

 HEADQUARTERS FOR FIBER OPTIC CABLES. FROM THE EXTERIOR JUNCTION BOX TO THE

 PROPOSED EQUIPMENT RACK.
- NOTE 7: ALL WORK SHALL CONFORM TO THE ELECTRICAL REQUIREMENTS OF FEDERAL, STATE, AND LOCAL AGENCIES. THE CONTRACTOR SHALL ALSO OBTAIN ALL NECESSARY PERMITS BEFORE BEGINNING ANY ELECTRICAL WORK.

ALL CEILINGS HAVE CEILING TILES AND ARE ACCESSIBLE.



IDOT DISTRICT 7 OPERATIONS HEADQUARTERS 400 WEST WABASH, EFFINGHAM IL

FILE NAME =	USER NAME = steffenmk	DESIGNED -	REVISED -			IDOT	DISTRI	CT 7 HEA	ADQUARTERS		F.A.	SECTION	ı	COUNTY	TOTAL S SHEETS	HEET NO.
c:\pw_work\pwidot\steffenmk\d0360593\D7	74643-sht-District7workpln.dgn	DRAWN -	REVISED -	STATE OF ILLINOIS							VAR	D7 ITS 20	014	•	72	14
	PLOT SCALE = 5000.00000 '/ 10.	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION	OPERATIONS BUILDING WORK					* EFFINGHA	M. CUMBERLANI		CONTRAC	T NO. 74	643	
Default	PLOT DATE = 6/26/2014	DATE -	REVISED -		SCALE:	SHEET	OF	SHEETS	STA.	TO STA.	CLARK &	AWRENCE ILLI	NOIS FED. AI	ID PROJECT		

LCD MONITOR - QTY. 4.0 EACH

NOTE 1: THE CONTRACTOR SHALL INSTALL ONE PROPOSED LCD MONITOR

ON THE WALL OF THE OFFICE OF THE TRAFFIC SIGNAL SYSTEMS

ENGINEER. THE CONTRACTOR SHALL FURNISH AND INSTALL WALL

ANCHORS AND HARDWARE THAT IS SUITED FOR THE INSTALLATION

AND RATED FOR THE WEIGHT OF THE LCD MONITORS IN ACCORDANCE

WITH THE REQUIREMENTS OF THE LCD BRACKET MOUNT MANUFACTURER.

THE MONITORS SHALL BE MOUNTED HORIZONTALLY AND INSTALLED TO

THE SATISFACTION OF THE ENGINEER. ALL EXPOSED CABLES SHALL

BE NEATLY TRAINED AND INSTALLED INSIDE WIREGUARD.

NOTE 2: THE CONTRACTOR SHALL INSTALL TWO PROPOSED LCD MONITORS

ON THE WALL OF THE OFFICE OF THE

TRAFFIC OPERATIONS SURERVISOR/TRAFFIC OPERATIONS TECHNICIAN.

THE CONTRACTOR SHALL FURNISH AND INSTALL WALL

ANCHORS AND HARDWARE THAT IS SUITED FOR THE INSTALLATION

AND RATED FOR THE WEIGHT OF THE LCD MONITORS IN ACCORDANCE

WITH THE REQUIREMENTS OF THE LCD BRACKET MOUNT MANUFACTURER.

THE MONITORS SHALL BE MOUNTED HORIZONTALLY AND INSTALLED TO

THE SATISFACTION OF THE ENGINEER. ALL EXPOSED CABLES SHALL

BE NEATLY TRAINED AND INSTALLED INSIDE WIREGUARD.

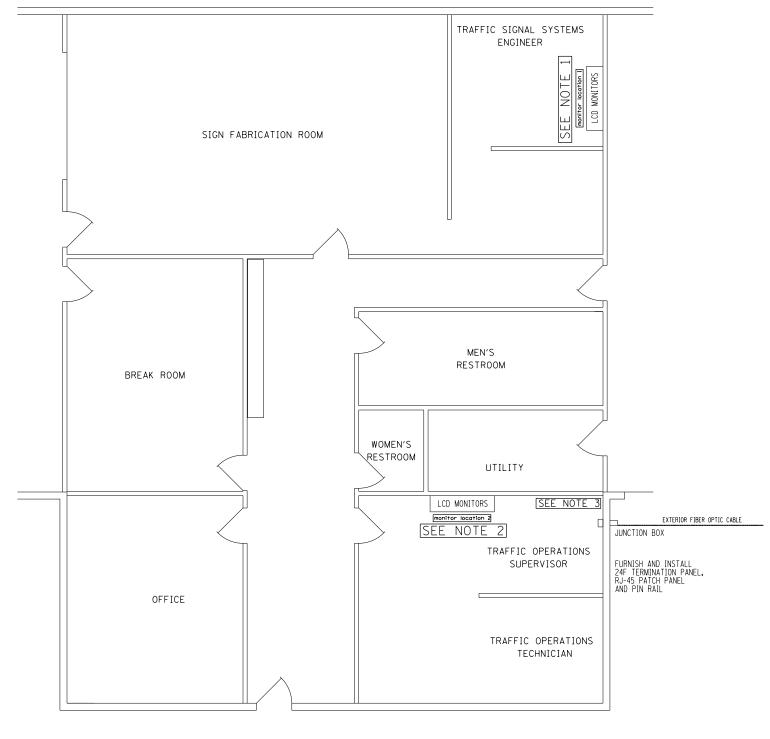
ELECTRICAL WORK, IDOT DISTRICT 7 SIGN SHOP

- NOTE 3: THE CONTRACTOR SHALL INSTALL THREE CAT5E CABLES FROM
 THE RJ-45 PATCH PANEL TO MONITOR LOCATION 1 AND THREE

 CAT5E CABLES FROM THE RJ-45 PATCH PANEL TO MONITOR LOCATION 2.
 THESE CABLES WILL BE USED TO TRANSMIT NETWORK DATA TO THE
 PROPOSED WORKSTATIONS. SEE SPECIAL PROVISION FOR ADDITIONAL
 DETAILS.
- NOTE 4: ALL WORK SHALL CONFORM TO THE ELECTRICAL REQUIREMENTS OF FEDERAL, STATE, AND LOCAL AGENCIES. THE CONTRACTOR SHALL ALSO OBTAIN ALL NECESSARY PERMITS BEFORE BEGINNING ANY ELECTRICAL WORK.

REFER TO SPECIAL PROVISIONS
FOR ADDITIONAL DETAILS

THE CEILING TILES ARE ACCESSIBLE.



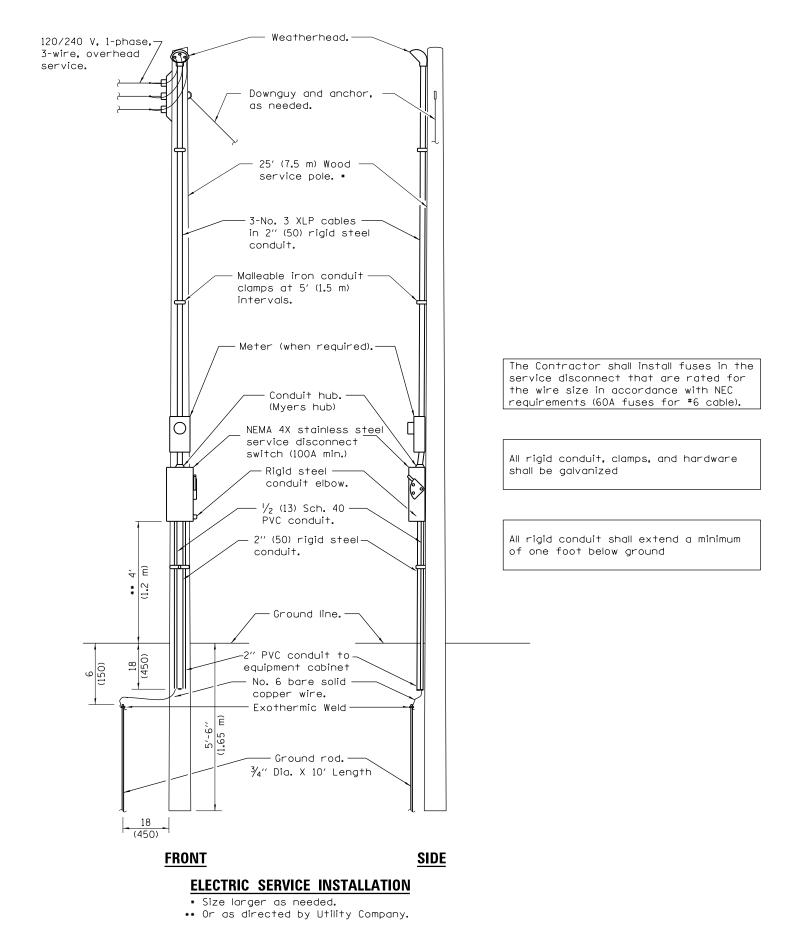
IDOT DISTRICT 7 SIGN SHOP ROUTE 40 WEST EFFINGHAM, IL

SCALE:

FILE NAME =	USER NAME = steffenmk	DESIGNED -	REVISED -
c:\pw_work\pwidot\steffenmk\d0360593\D7	74643-sht-District7workpln.dgn	DRAWN -	REVISED -
	PLOT SCALE = 5000.0000 '/ in.	CHECKED -	REVISED -
Default	PLOT DATE = 6/26/2014	DATE -	REVISED -

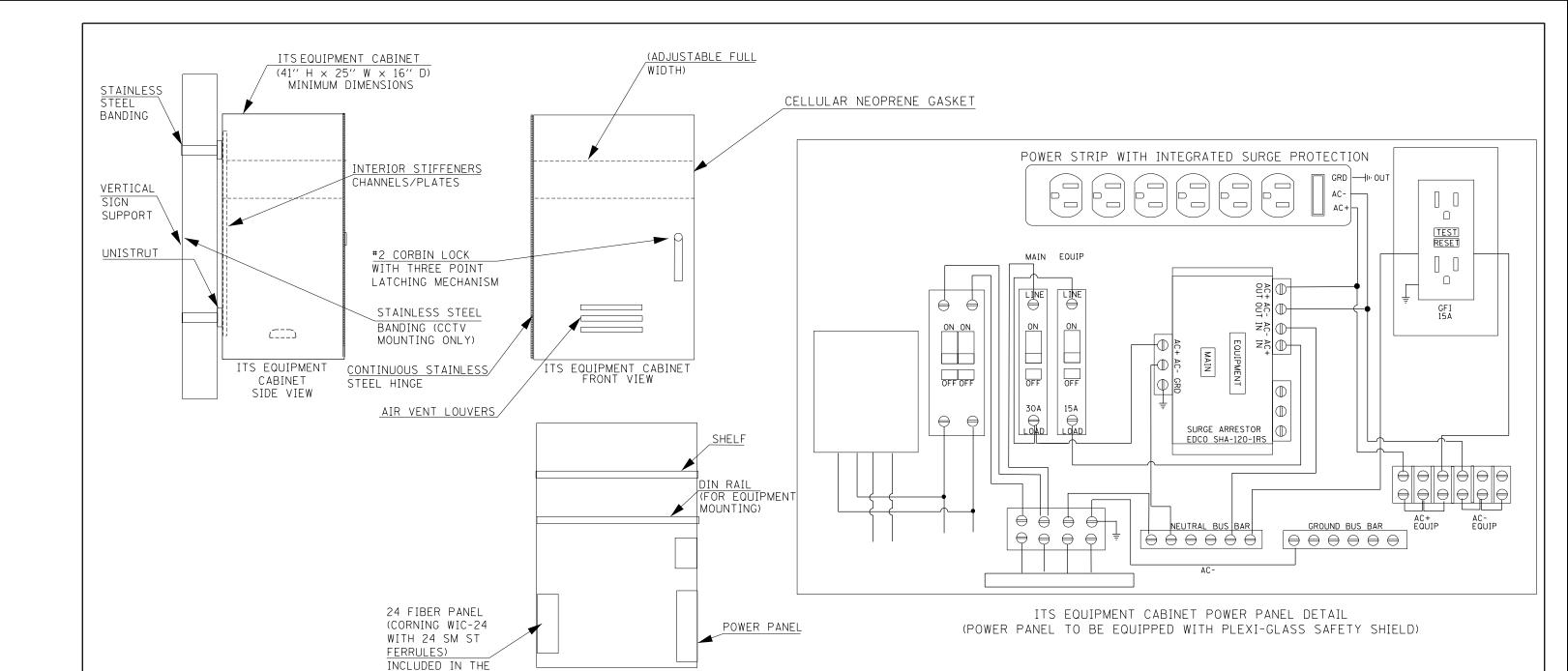
STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

	DOT DISTI	RICT 7 SI	GN SHO)P	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	OFFICE BUILDING WORK				VAR	D7 ITS 2014	•	72	15
	OTTICL	DOILDING	VVOIIN		* EFFIN	GHAM, CUMBERLAND	CONTRACT	NO. 7	4643
SHEET	OF	SHEETS	STA.	TO STA.	CLAR	C& LAWRENCE ILLINOIS FED. A	ID PROJECT		



STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

		FLECTRIC	SERVICE	INICTAL	LATION	DETAIL		VAR	D7 ITS 2014	•	72	16				
ELECTRIC SERVICE INSTALLATION DETAIL									GHAM CUMBERLAND	CONTRACT	NO. 7	4643				
	SCALE:	SHEET	OF	SHEETS	STA.	TC	STA.	CLARK & LAWRENCE ILLINOIS FED. AID PROJECT								



1. THE ITS EQUIPMENT CABINET SHALL BE A NEMA TYPE 3R CABINET WITH MINIMUM OUTSIDE DIMENSIONS OF 41" (H) X 25" (W) X 16" (D). THE CABINET SHALL BE CONSTRUCTED FROM .125" THICK ALUMINUM AND HAVE A NATURAL FINISH.

COST OF FIBER

OPTIC CABLE PAY ITEM

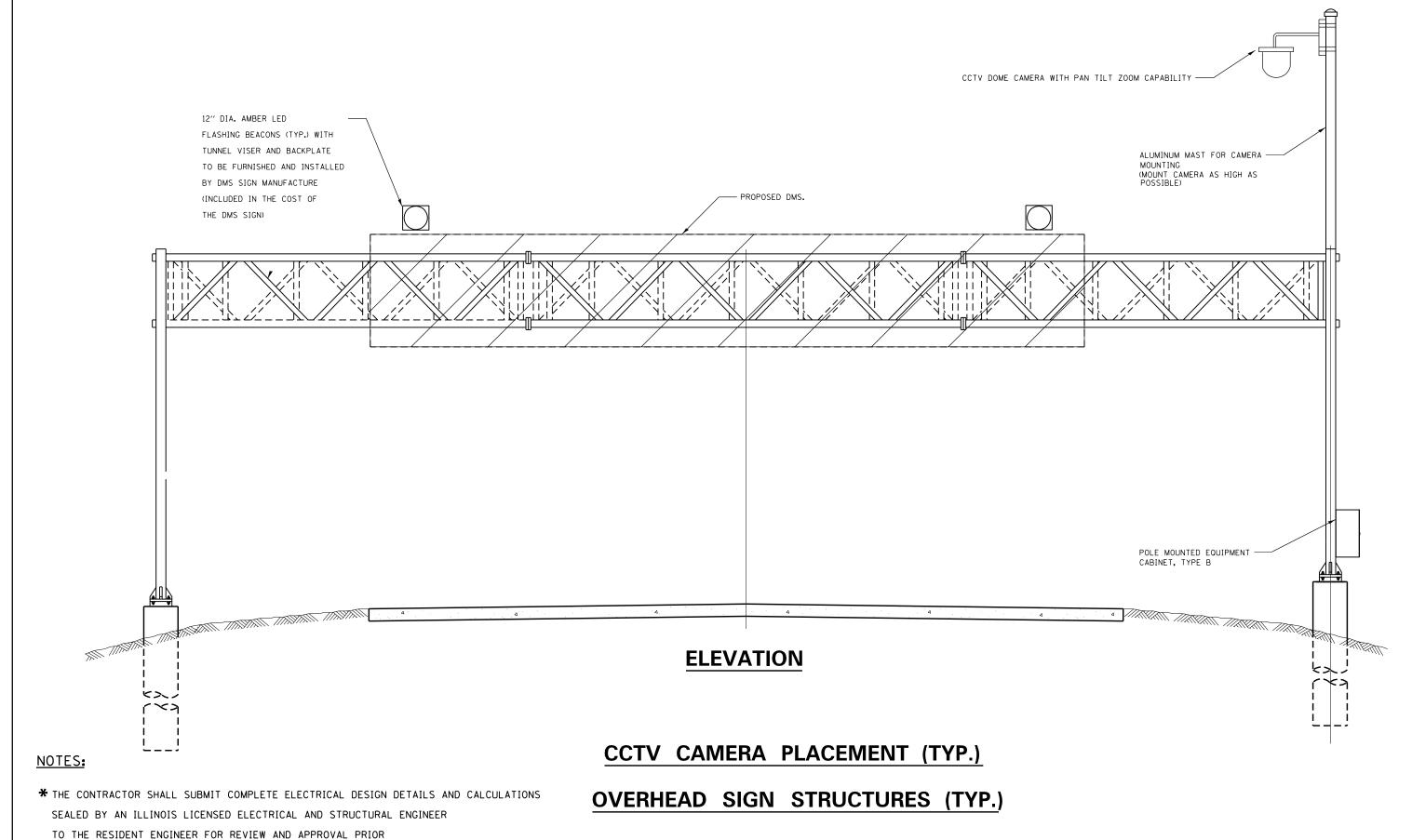
NOTES

2. THE CABINET SHALL BE FURNISHED WITH ONE ADJUSTABLE HEIGHT SHELF, THREE POSITION DOOR STOP (90, 120, 180 DEGREES), NEOPRENE DOOR GASKET, AIR VENT LOUVERS, CONTINUOUS STAINLESS STEEL DOOR HINGE, INTERIOR STIFFENERS FOR MOUNTING, THREE POINT LATCHING MECHANISM WITH #2 CORBIN LOCK, 24 FIBER INTERCONNECT CENTER, POWER PANEL, AND ALL STAINLESS STEEL HARDWARE.

ITS EQUIPMENT CABINET INSIDE VIEW

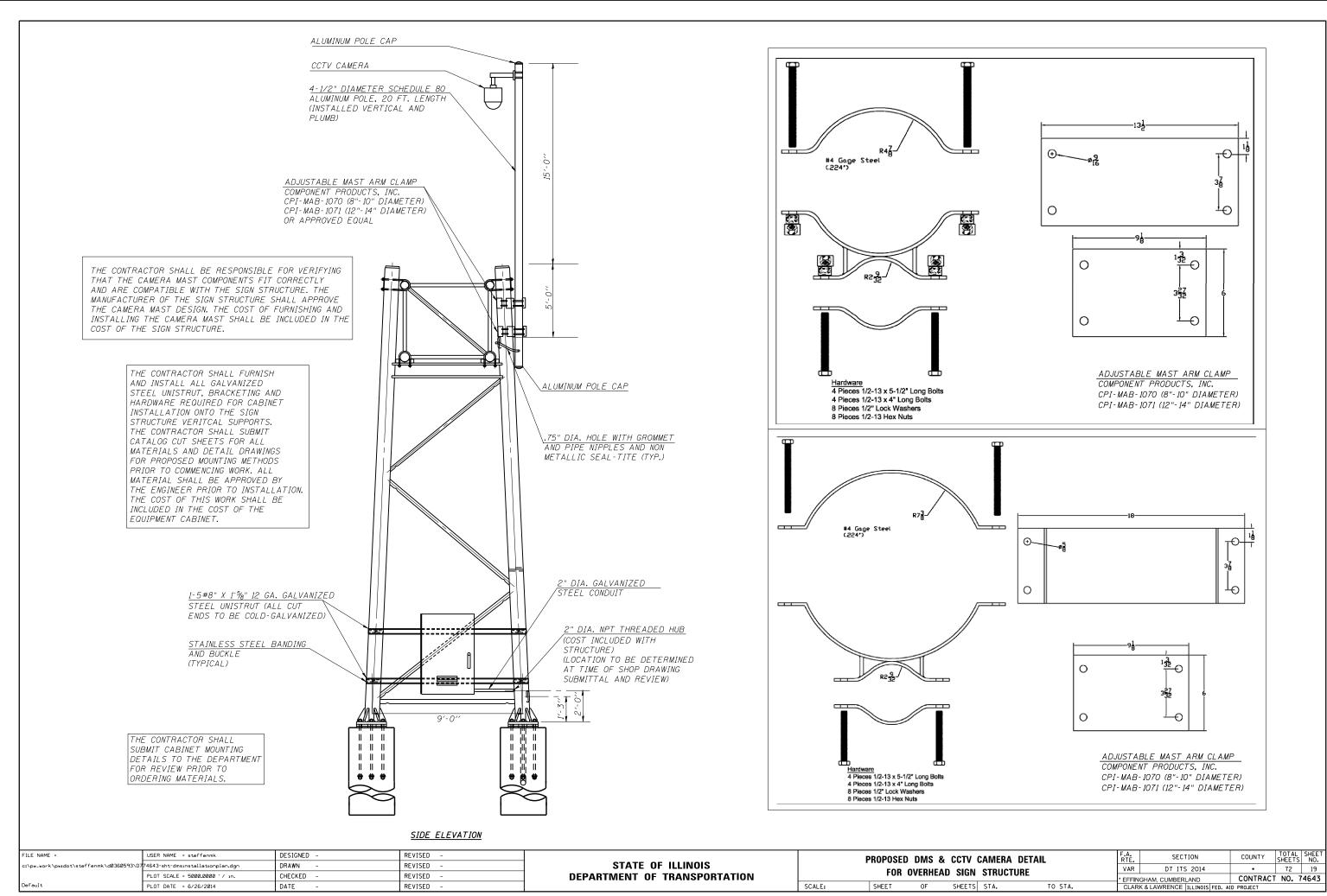
- 3. THE CABINET SHALL BE EQUIPPED WITH A THERMOSTATICALLY CONTROLLED VENTILATION FAN, 250 WATT HEATER STRIP (WITH GUARD), AND DELUXE PLEATED AIR FILTER.
- 4. THE CABINET SHALL BE EQUIPPED WITH A SLIDE OUT KEYBOARD TRAY WITH INTEGRATED DOCUMENT STORAGE DRAWER.
- 5. THE CONTRACTOR SHALL INSTALL ALL DIN RAIL MOUNTED EQUIPMENT IN THE CABINET. (ETHERNET SWITCHES, POWER SUPPLIES, ETC.)
- 6. THE CONTRACTOR SHALL INSTALL A 48" X 48" CONCRETE STAND PAD AT EACH CABINET LOCATION. THE COST OF THE STANDPAD SHALL BE INCLUDED IN THE COST OF THE CABINET.

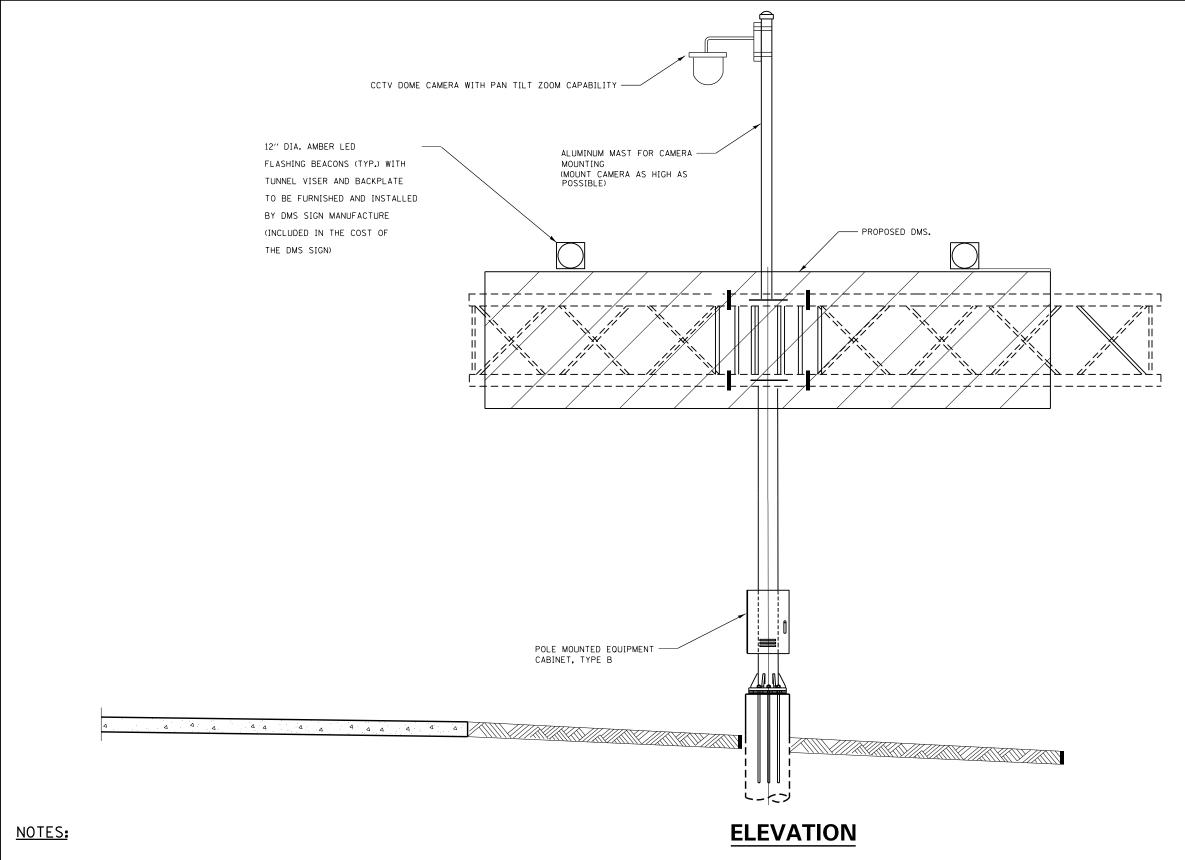
c:\pw_work\pwidot\steffenmk\d0360593\D7	USER NAME = steffenmk 74643-sht-cabinetdetail.dgn	DRAWN -	REVISED -	STATE OF ILLINOIS	POLI	MOUNTE	D EGOIL	MENT CABINET, TYP	E B DEIAIL	RTE.	DZ LTC 2014	COUNTY	SHEETS NO.
	PLOT SCALE = 50.0000 '/ in.	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION						* EFFIN	D7 ITS 2014 IGHAM, CUMBERLAND,	CONTRAC	T NO. 74643
Default	PLOT DATE = 6/26/2014	DATE -	REVISED -		SCALE: NTS	SHEET	OF	SHEETS STA.	TO STA.	CLARK		ID PROJECT	



TO THE ORDERING OF ANY MATERIALS.

FILE NAME =	USER NAME = steffenmk	DESIGNED -	REVISED -			PROPOSED	DMS &	CCTV (AMERA DETA	AII	RTF.	SECTION	COUNTY	SHEETS NO.
c:\pw_work\pwidot\steffenmk\d0360593\D7	74643-sht-dmsinstallationplan.dgn	DRAWN -	REVISED -	STATE OF ILLINOIS							VAR	D7 ITS 2014		72 18
	PLOT SCALE = 5000.0000 '/ in.	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION	FOR OVERHEAD SIGN STRUCTURE			* EFFINC	SHAM, CUMBERI AND	CONTRACT	T NO. 74643			
Default	PLOT DATE = 5/22/2014	DATE -	REVISED -		SCALE: SHEET OF SHEETS STA. TO STA.			TO STA.		& LAWRENCE ILLINOIS FED. A				





THE CONTRACTOR SHALL SUBMIT COMPLETE ELECTRICAL DESIGN DETAILS AND CALCULATIONS
SEALED BY AN ILLINOIS LICENSED ELECTRICAL AND STRUCTURAL ENGINEER
TO THE RESIDENT ENGINEER FOR REVIEW AND APPROVAL PRIOR
TO THE ORDERING OF ANY MATERIALS.

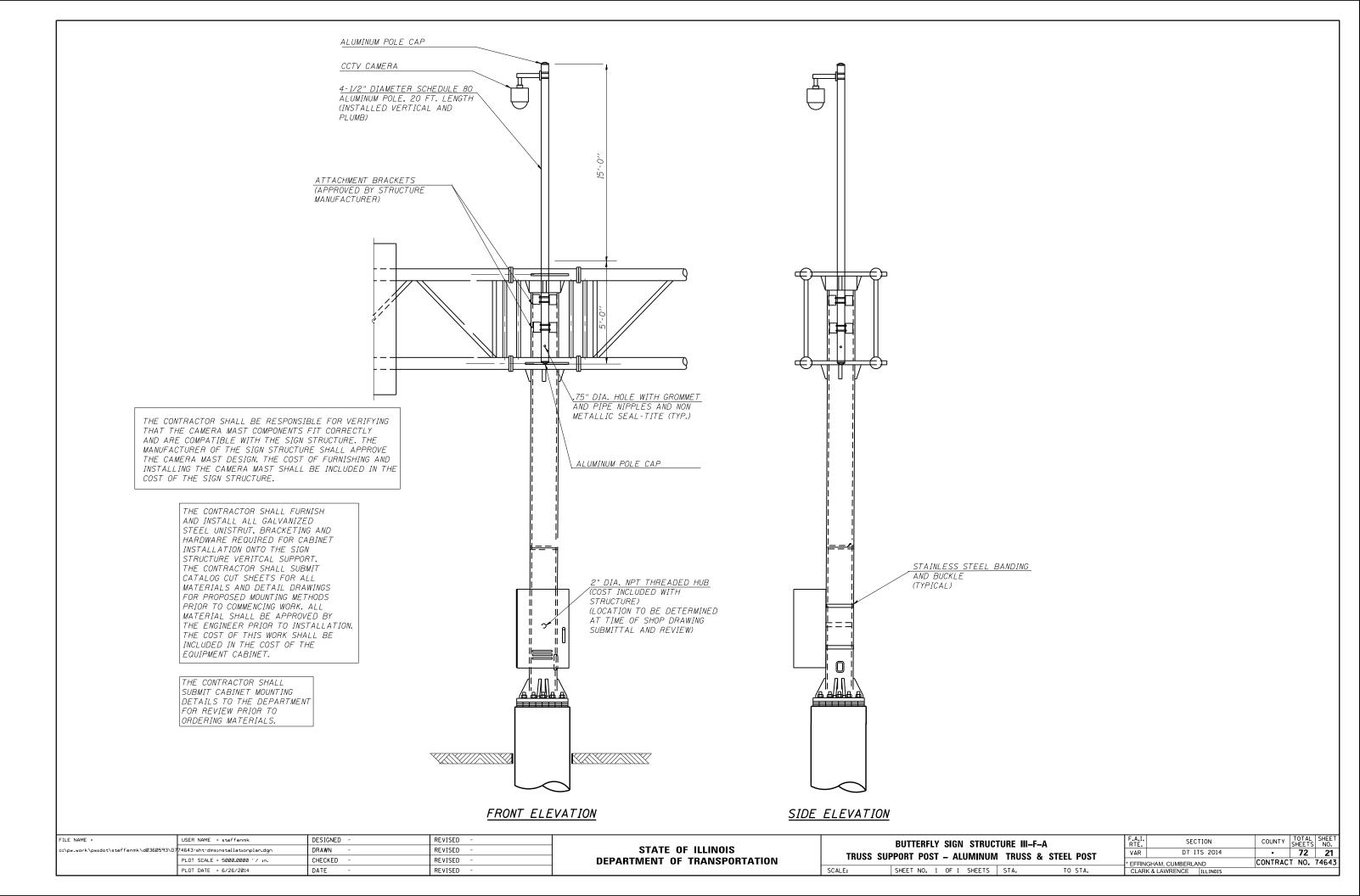
CCTV CAMERA PLACEMENT (TYP.)
BUTTERFLY SIGN STRUCTURE

SCALE:

FILE NAME =	USER NAME = steffenmk	DESIGNED -	REVISED -		
c:\pw_work\pwidot\steffenmk\d0360593\D7	74643-sht-dmsinstallationplan.dgn	DRAWN -	REVISED -		
	PLOT SCALE = 5000.0000 '/ in.	CHECKED -	REVISED -		
Default	PLOT DATE = 5/22/2014	DATE -	REVISED -		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

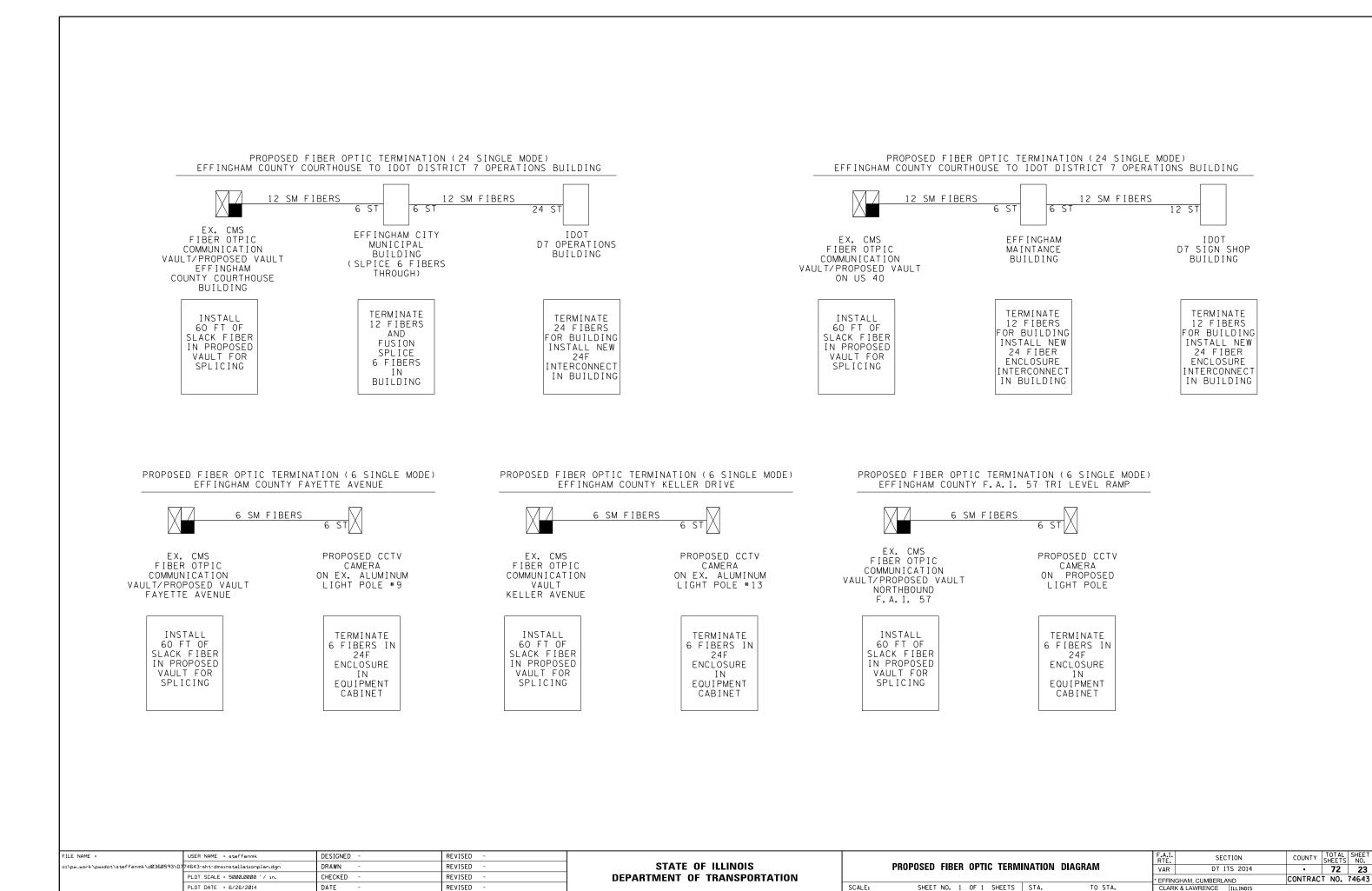
PR	PROPOSED DMS & CCTV CAMERA DETAIL FOR						SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
BUTTERFLY TRUSS SIGN STRUCTURE					VAR	D7 ITS 2014	•	72	20	
	DUTTENTLY INUSS SIGN STRUCTURE					* EFFINGHAM, CUMBERLAND CONTRAC				74643
	SHEET	OF	SHEETS	STA.	TO STA.	CLAR	K & LAWRENCE ILLINOIS FED. A	ID PROJECT		



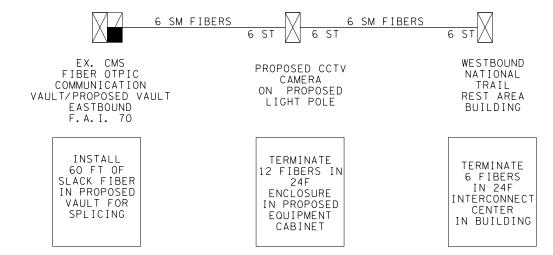
FIBER OPTIC CABLE TERMINATION NOTES (SINGLE MODE CABLE)

- 1. THE PROPOSED FIBER OPTIC CABLE SHALL BE TERMINATED AS SHOWN ON THE FIBER OPTIC LINE/TERMINATION DIAGRAM WITH ST CONNECTORS.
- 2. ALL CABLE SPLICES AND TERMINATIONS SHALL BE FUSION SPLICED.
- 3. THE CONTRACTOR SHALL FURNISH AND INSTALL ALL ITEMS REQUIRED FOR FIBER OPTIC CABLE TERMINATION, INCLUDING, BUT NOT LIMITED TO, BREAKOUT KITS, FANOUT KITS, ENCLOSURES, WEATHERPROOF SPLICE BOOTS, SPLICE SLEEVES, CONNECTORS, INTERCONNECT CENTERS, ETC.
- 4. ALL ST CONNECTORS SHALL BE FUSION SPLICED UTILIZING PRE-FORMED CABLES WITH CONNECTORS THAT ARE FUSION SPLICED TO THE PROPOSED FIBER.
- 5. THE CONTRACTOR SHALL INSTALL 60 FT OF SLACK CABLE INSIDE EACH PROPOSED COMMUNICATION VAULT THAT IS INSTALLED ADJACENT TO AN EXISTING CMS COMMUNICATION VAULT FOR SPLICING INTO THE EXISTING CMS FIBER.
- 6. SPLICING OF PROPOSED FIBER OPTIC CABLES INTO EXISTING CMS FIBER TO BE DONE BY OTHERS. THIS WORK WILL BE PAID FOR SEPERATELY IN ACCORDANCE WITH ARTICLE 109.05 OF THE STANDARD SPECIFICATIONS.
- 7. ALL LABOR, MATERIALS, AND EQUIPMENT REQUIRED TO COMPLY WITH THESE REQUIREMENTS SHALL BE INCLUDED IN THE BID PRICE FOR THE PROPOSED FIBER OPTIC CABLE. THERE WILL BE NO ADDITIONAL COMPENSATION FOR THIS WORK.

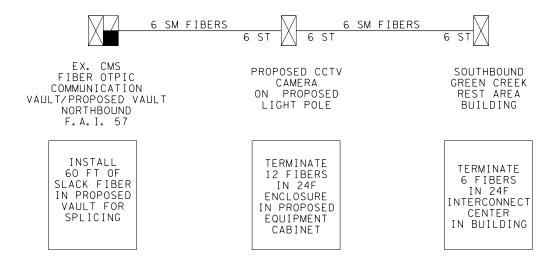
FILE NAME =	USER NAME = steffenmk	DESIGNED -	REVISED -			F.A.I.	SECTION	COUNTY TOTAL SHE
c:\pw_work\pwidot\steffenmk\d0360593\[774643-sht-dmsinstallationplan.dgn	DRAWN -	REVISED -	STATE OF ILLINOIS	PROPOSED FIBER OPTIC CABLE TERMINATION NOTES	VAR	D7 ITS 2014	• 72 2
	PLOT SCALE = 5000.00000 '/ in.	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION	THE COLD TIDEN OF HE CANDIDATE TERMINATURE TRANSPORT		AM CUMBERLAND	CONTRACT NO. 746
	PLOT DATE = 6/26/2014	DATE -	REVISED -		SCALE: SHEET NO. 1 OF 1 SHEETS STA. TO STA.	CLARK & L	LAWRENCE ILLINOIS	



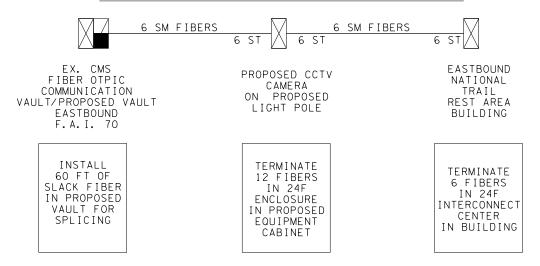
PROPOSED FIBER OPTIC TERMINATION (6 SINGLE MODE) EFFINGHAM COUNTY WESTBOUND NATIONAL TRAIL REST AREA



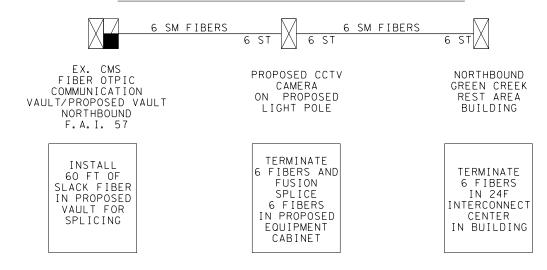
PROPOSED FIBER OPTIC TERMINATION (6 SINGLE MODE) EFFINGHAM COUNTY SOUTHBOUND GREEN CREEK REST AREA



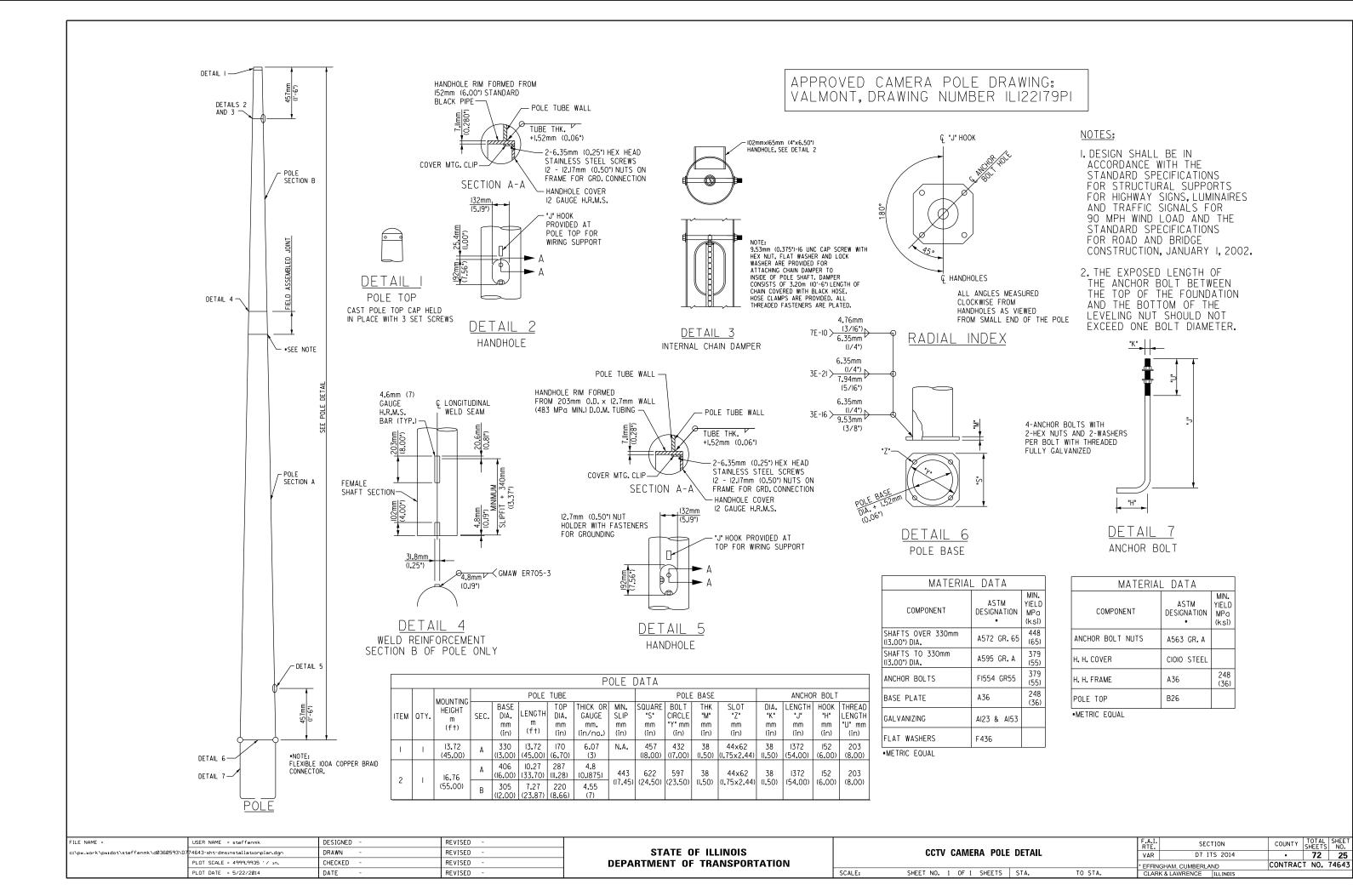
PROPOSED FIBER OPTIC TERMINATION (6 SINGLE MODE) EFFINGHAM COUNTY EASTBOUND NATIONAL TRAIL REST AREA

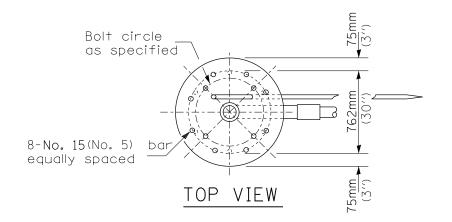


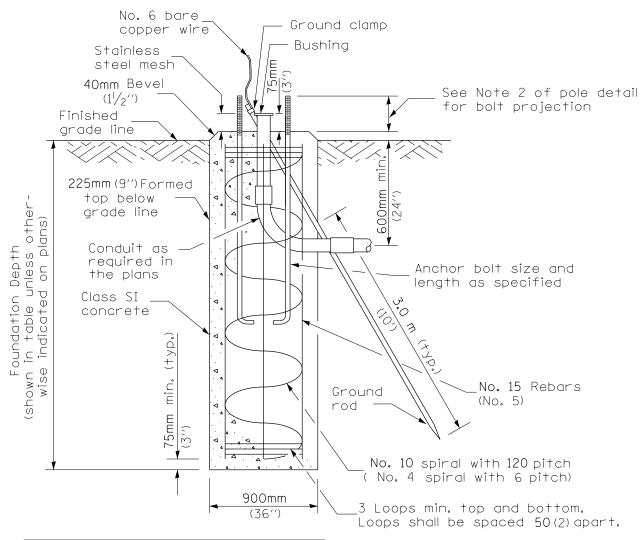
PROPOSED FIBER OPTIC TERMINATION (6 SINGLE MODE) EFFINGHAM COUNTY NORTHBOUND GREEN CREEK REST AREA



FILE NAME =	USER NAME = steffenmk	DESIGNED -	REVISED -		PROPOSED FIBER OPTIC TERMINATION DIAGRAM		F.A.I. RTE.	SECTION	COUNTY	TOTAL	HEET NO.
c:\pw_work\pwidot\steffenmk\d0360593\D	774643-sht-dmsinstallationplan.dgn	DRAWN -	REVISED -	STATE OF ILLINOIS	PROPOSED FIBER OPTIC TERMINATION DIAGRAM			D7 ITS 2014	•	72	24
	PLOT SCALE = 5000.00000 '/ in.	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION				UMBERLAND	CONTRAC	T NO. 7	4643
	PLOT DATE = 6/26/2014	DATE -	REVISED -		SCALE:	SHEET NO. 1 OF 1 SHEETS STA. TO STA.	CLARK & LAW	RENCE ILLINOIS	•		







Pole Height	Foundation depth
13.7m (45′)	4.4m (14'-6'')
16.8m (55')	6.2m (20'-4'')

Notes:

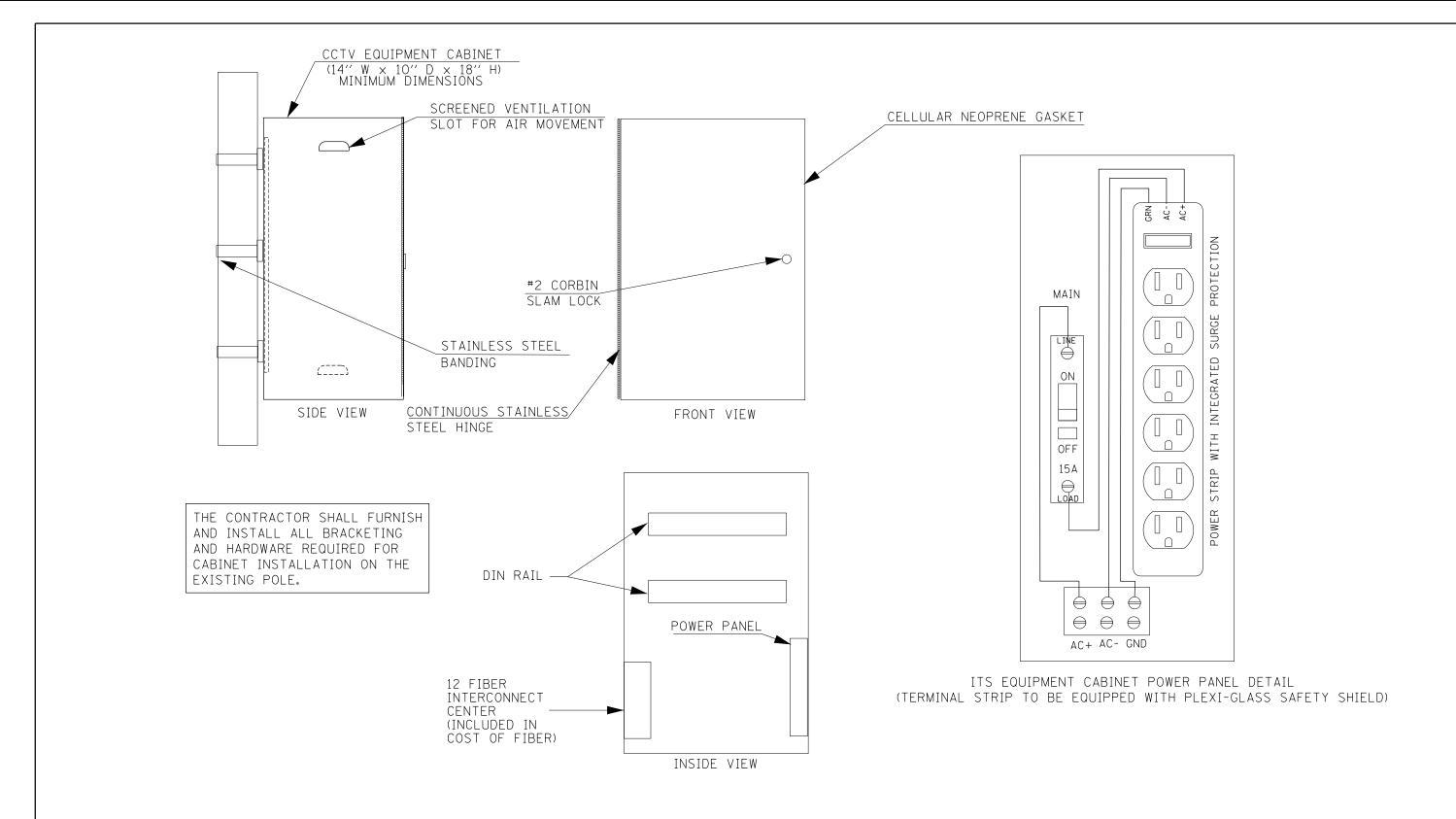
- 1. The Engineer shall determine the class of soil during excavation. These foundation depths are for sites which have cohesive soils (clayey silt, sandy clay, etc.) along the length of the shaft, with an average Unconfined Compressive Strength (Qu) > 100 kPa (1.0 tsf). This strength shall be verified by boring data prior to construction or with testing by the Engineer during foundation drilling. The Bureau of Bridges & Structures should be contacted for a revised design if other conditions are encountered.
- 2. The anchor bolts and raceways shall be properly secured in place.
- 3. Concrete shall be class "SI" Concrete and the foundation must be cured for ten (10) days before the pole is erected.
- 4. The cable trench shall be backfilled and firmly compacted before the pole is erected.
- 5. For sloping grades, the foundation design depth shall be increased by the corresponding cross slope shaft depth increase factor given by:
 - A. Cohesive soil cross slope shaft increase factor 0.009 x (slope angle) + 1.0
 - B. Granular soil cross slope shaft increase factor 0.00005 x (slope angle) + 1.0
- 6. Install grounding system in accordance with Section 806 of the IDOT Standard Specifications.

FILE NAME =	USER NAME = steffenmk	DESIGNED -	REVISED -	
c:\pw_work\pwidot\steffenmk\d0360593\D7	74643-sht-dmsinstallationplan.dgn	DRAWN -	REVISED -	ı
	PLOT SCALE = 4999.9935 '/ in.	CHECKED -	REVISED -	ı
	PLOT DATE = 5/22/2014	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCALE:

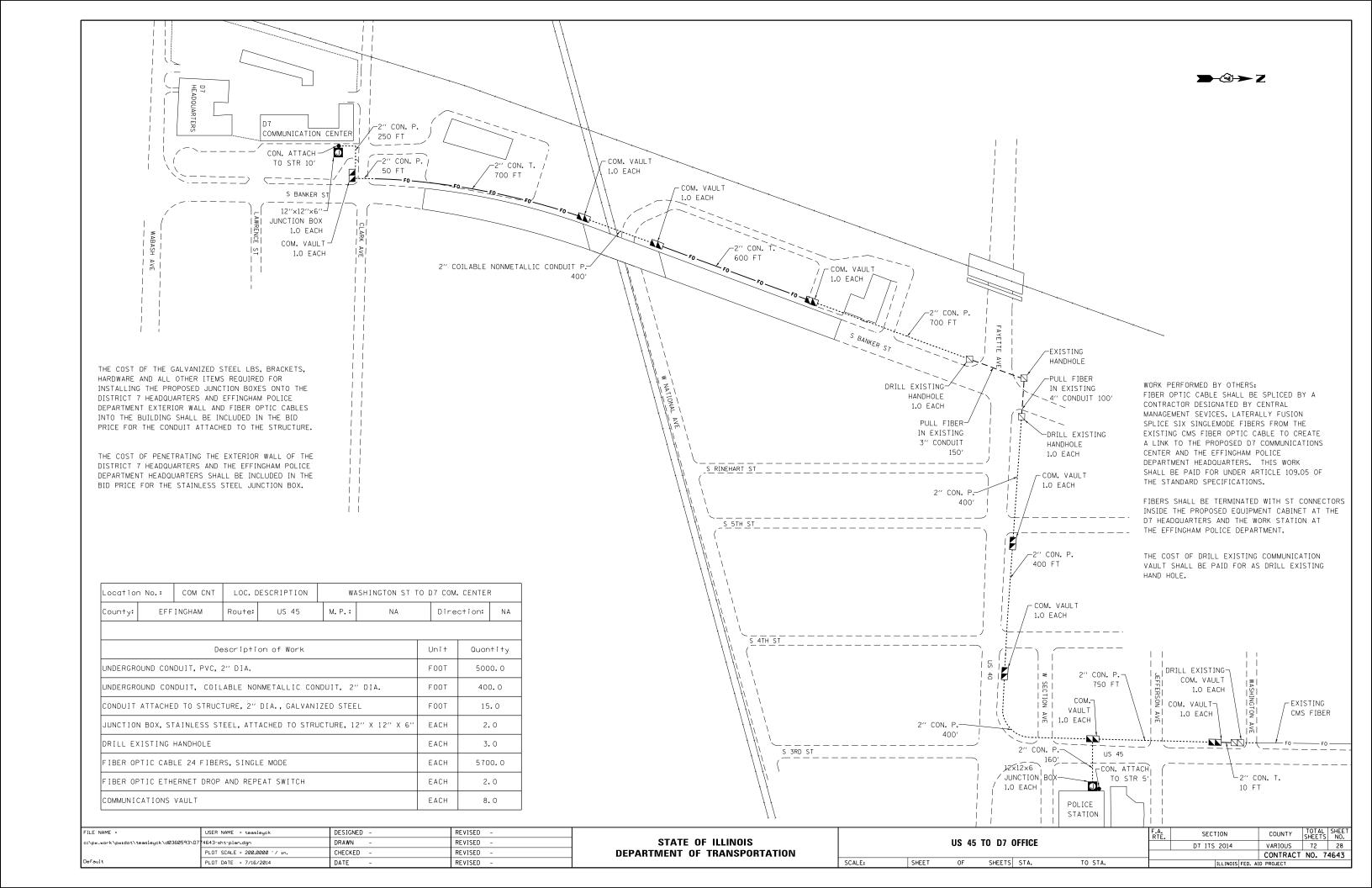
007/ 044504 0015 00100577 5011	DET 4.11	F.A.I. RTE.	SEC	TION	COUNTY	TOTAL SHEETS	SHE! NO	
CCTV CAMERA POLE CONCRETE FOU	INDATION	DETAIL	VAR	D7 I	TS 2014	•	72	20
			* EFFIN	GHAM, CUMBERLA	ND	CONTRAC	T NO.	7464
SHEET NO. 1 OF 1 SHEETS ST.	`A.	TO STA.	CLAR	K & LAWRENCE	ILL INDIS			

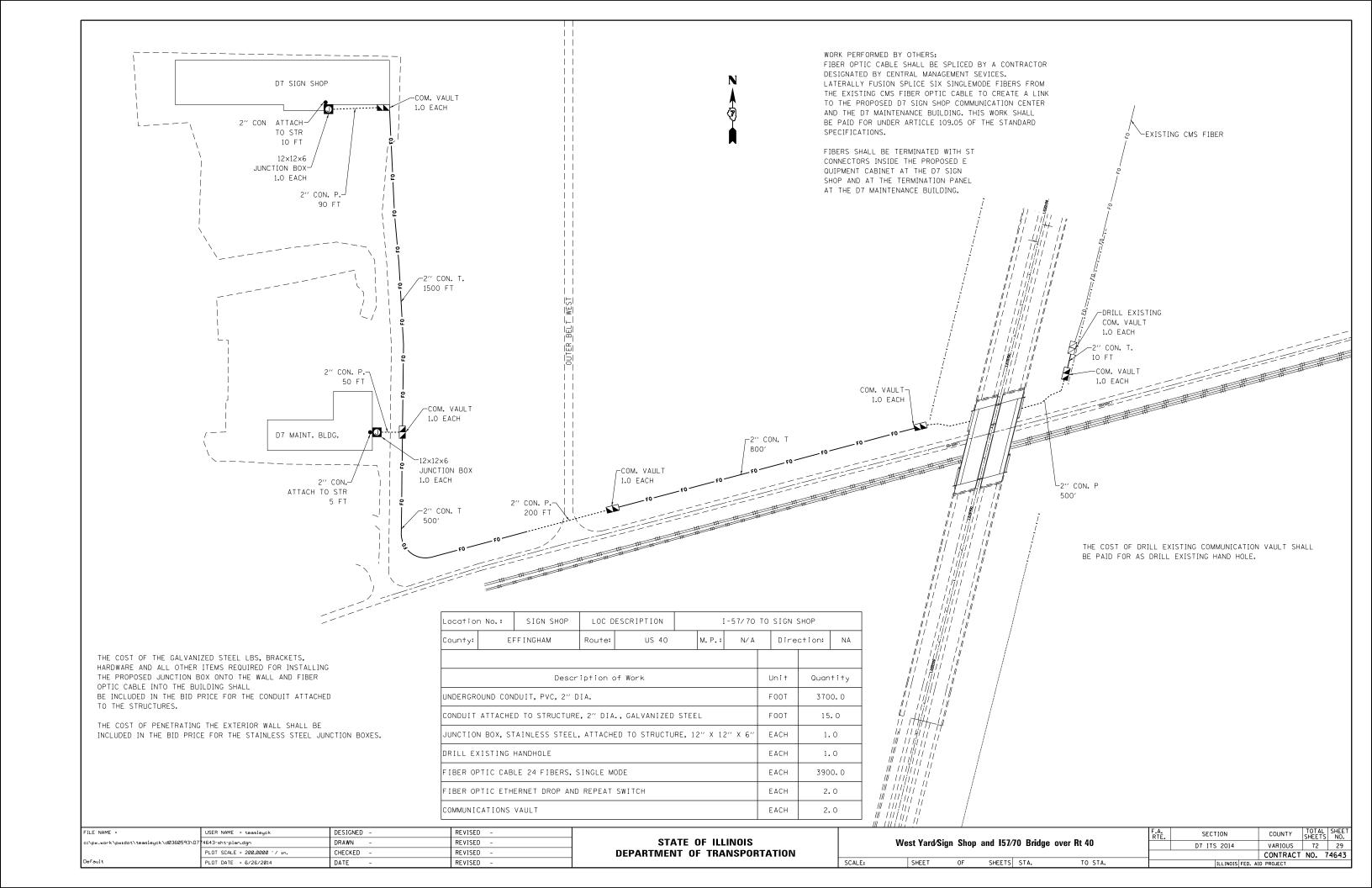


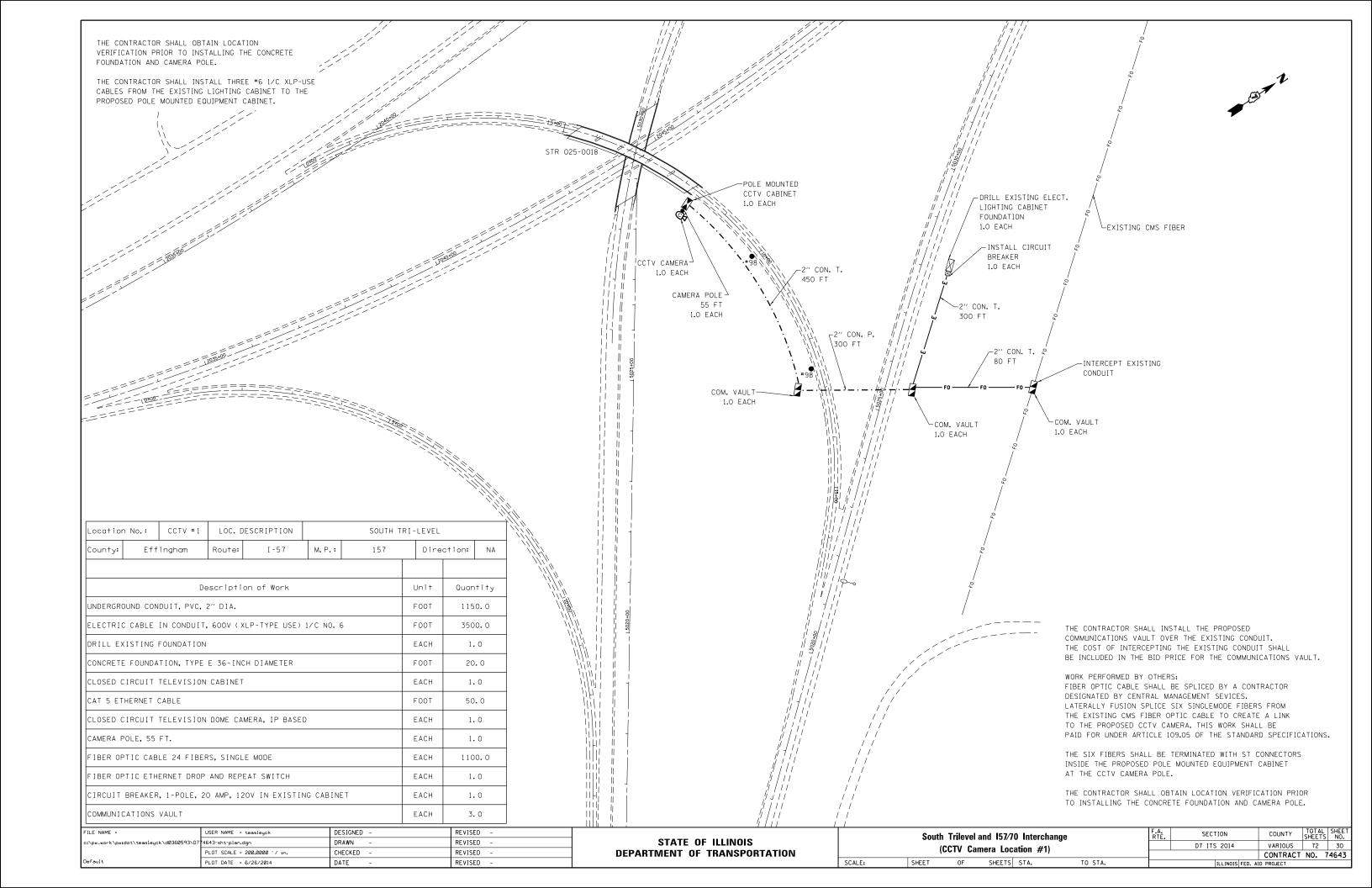
NOTES

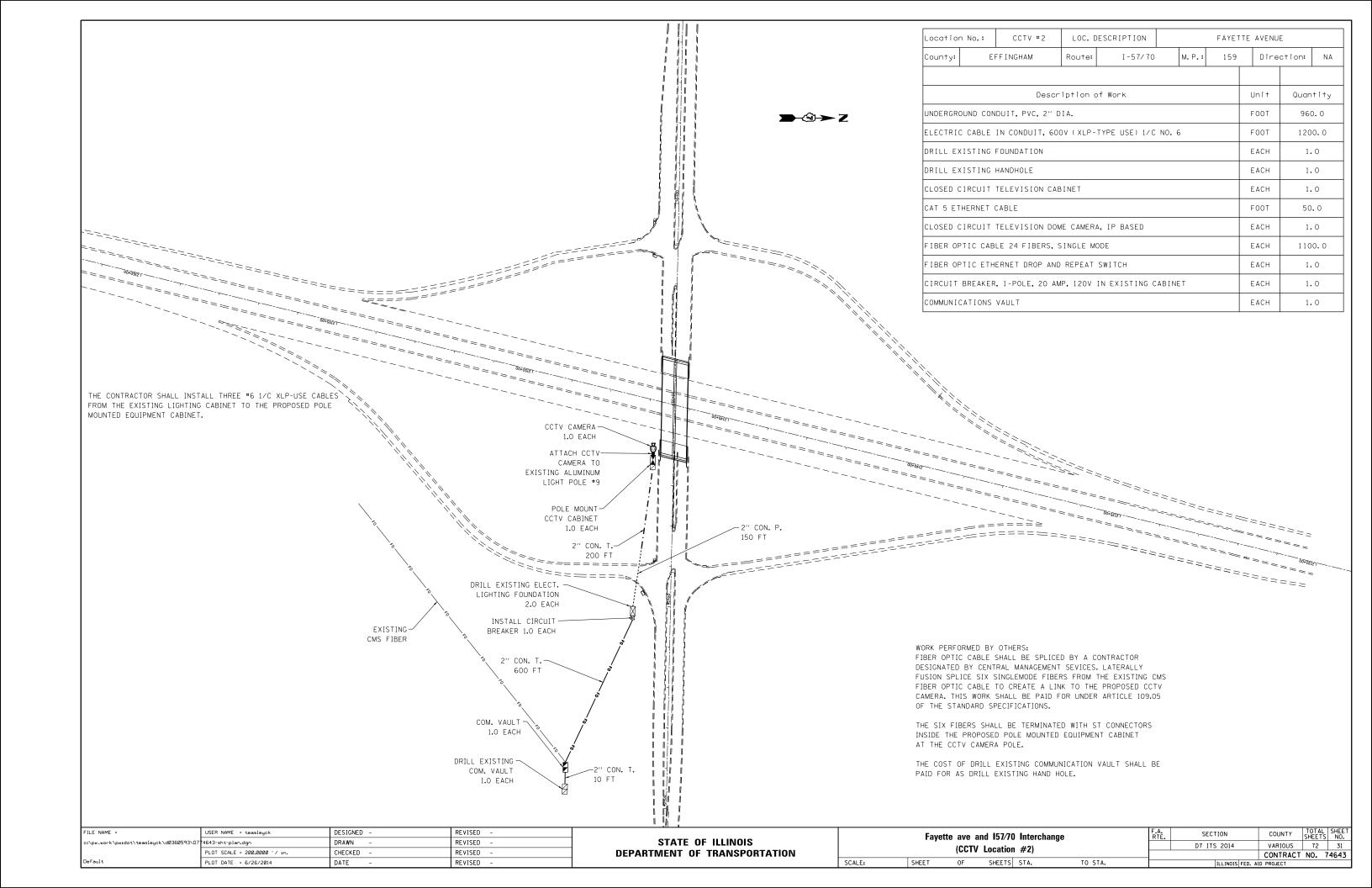
- 1. THE ITS EQUIPMENT CABINET SHALL BE A NEMA TYPE 3R CABINET WITH MINIMUM OUTSIDE DIMENSIONS OF 20" (H) X 14" (W) X 10" (D) (NOMINAL). THE CABINET SHALL BE CONSTRUCTED FROM .125" THICK ALUMINUM AND HAVE A NATURAL FINISH.
- 2. THE CABINET SHALL BE EQUIPPED WITH A #2 CORBIN SLAM LOCK, AND ALL STAINLESS STEEL HARDWARE.

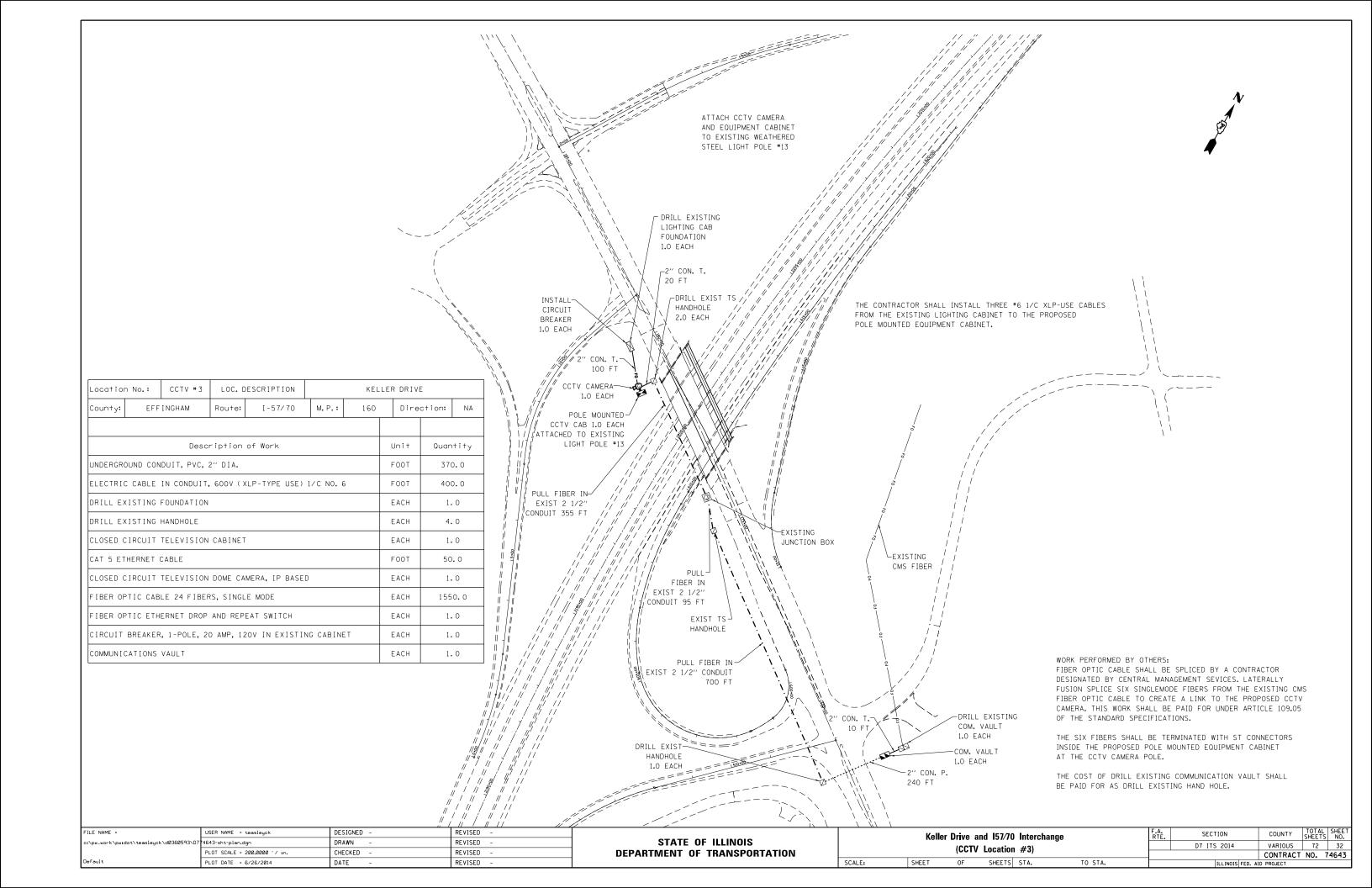
FILE NAME =	USER NAME = steffenmk	DESIGNED -	REVISED -					F.A.I.	SECTION	COUNTY TOTAL SHEET
c:\pw_work\pwidot\steffenmk\d0360593\D	74643-sht-dmsinstallationplan.dgn	DRAWN -	REVISED -	STATE OF ILLINOIS		CLOSED CIRCUIT CABINET DETAIL		VAR [7 ITS 2014	• 72 27
	PLOT SCALE = 5000.00000 '/ 10.	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION				* FEFINGHAM, CUMB	RI AND	CONTRACT NO. 74643
	PLOT DATE = 6/26/2014	DATE -	REVISED -		SCALE:	SHEET NO. 1 OF 1 SHEETS STA.	TO STA.	CLARK & LAWRENC	E ILLINOIS	

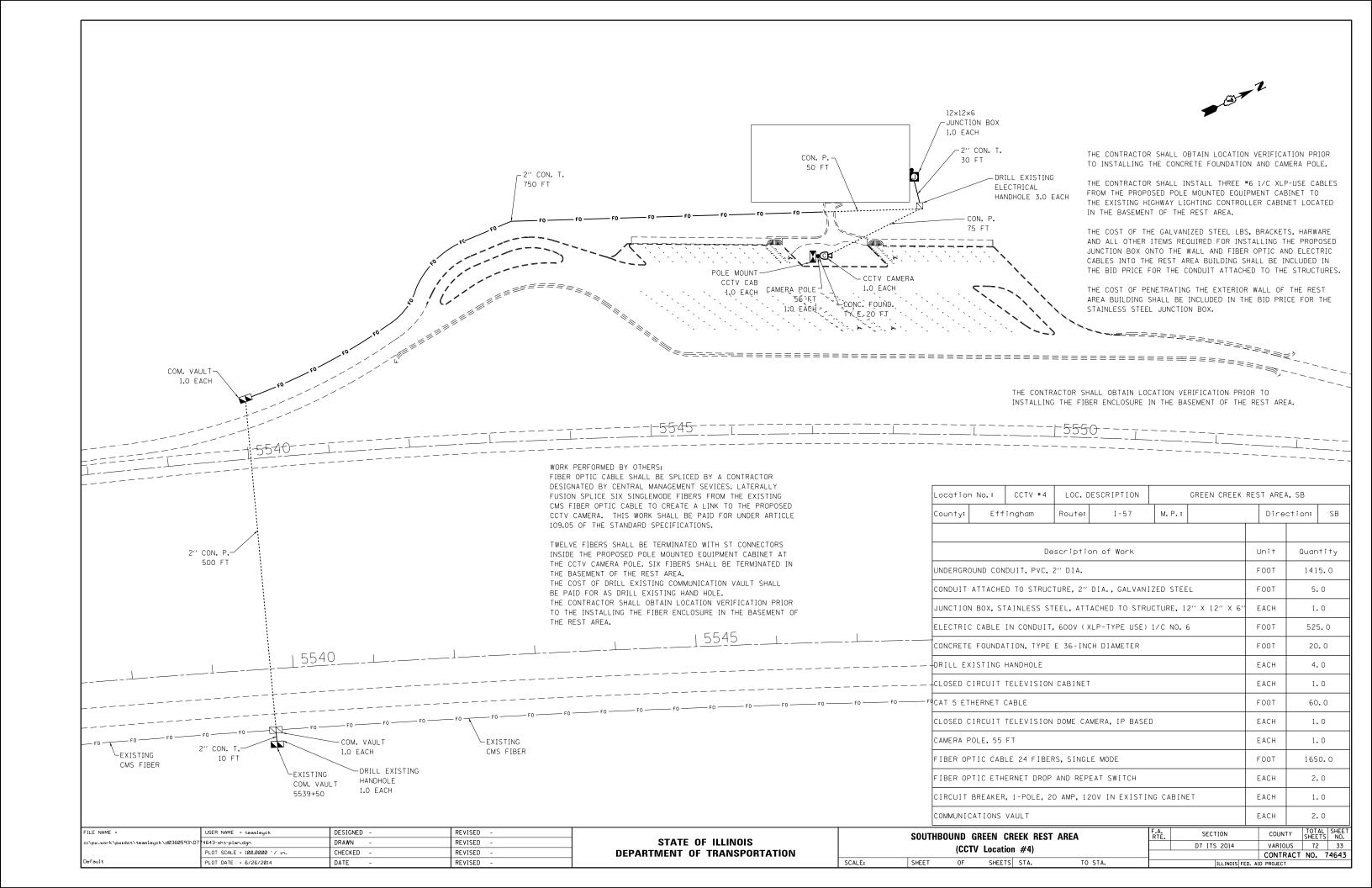


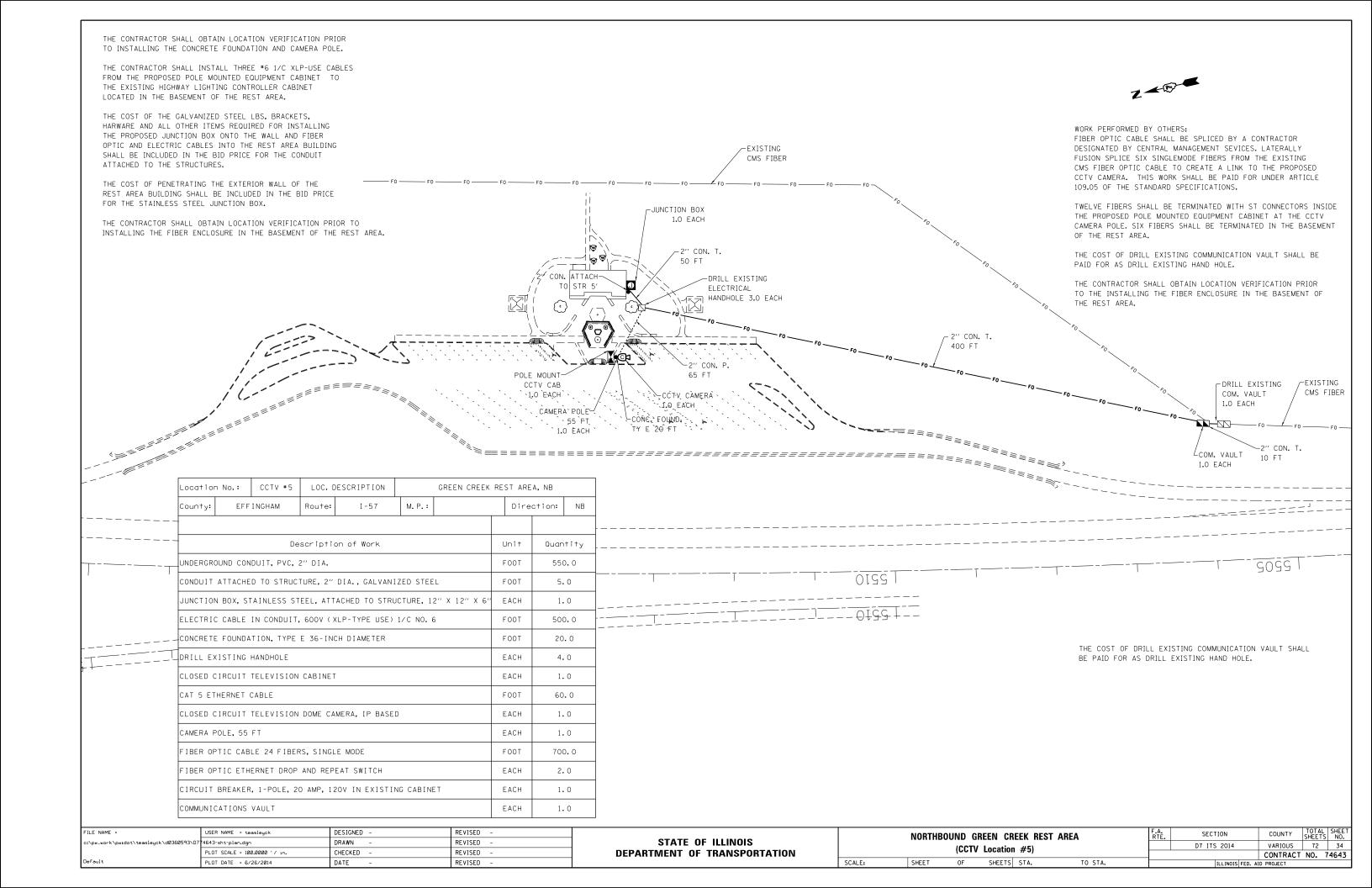


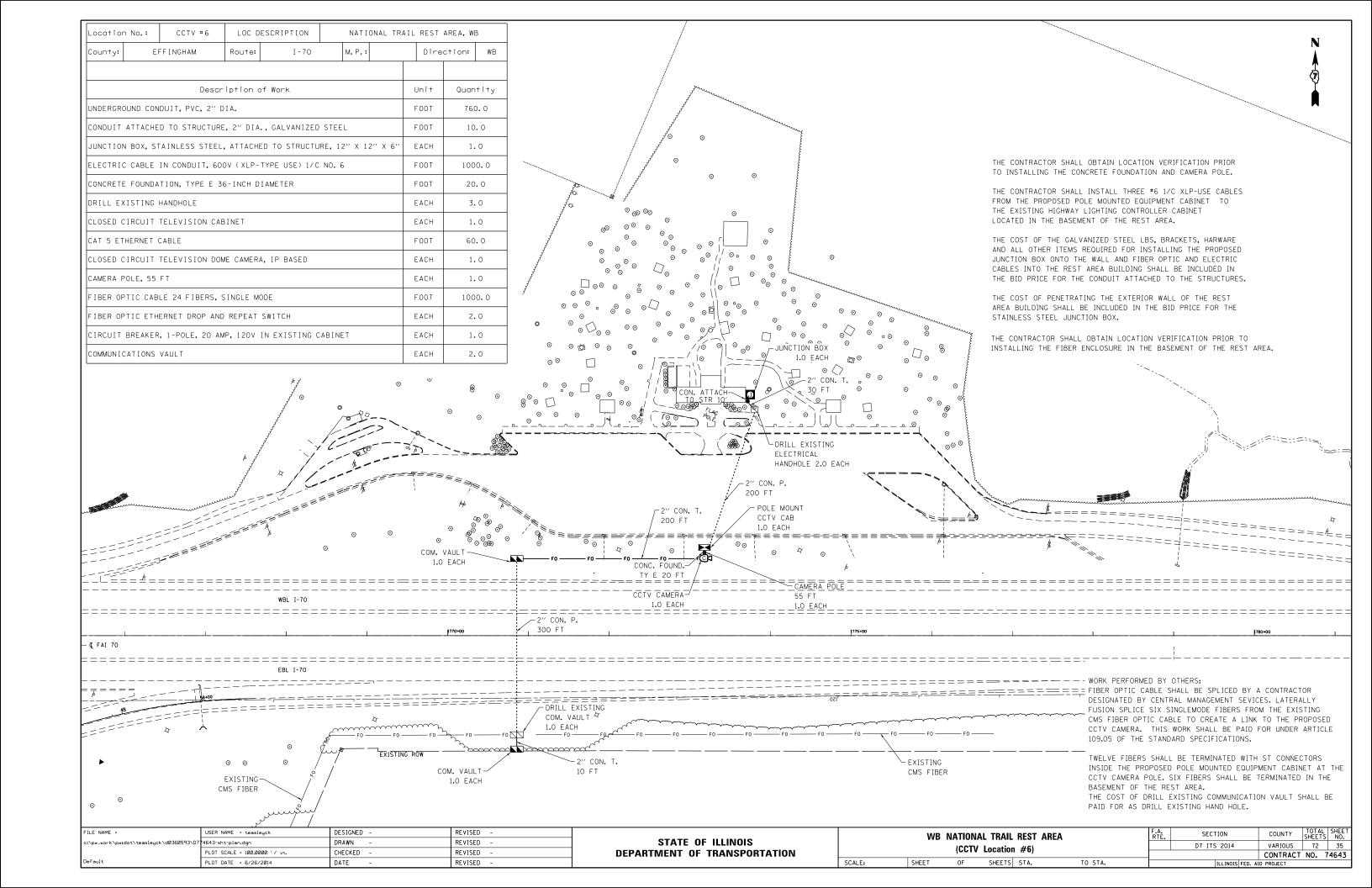


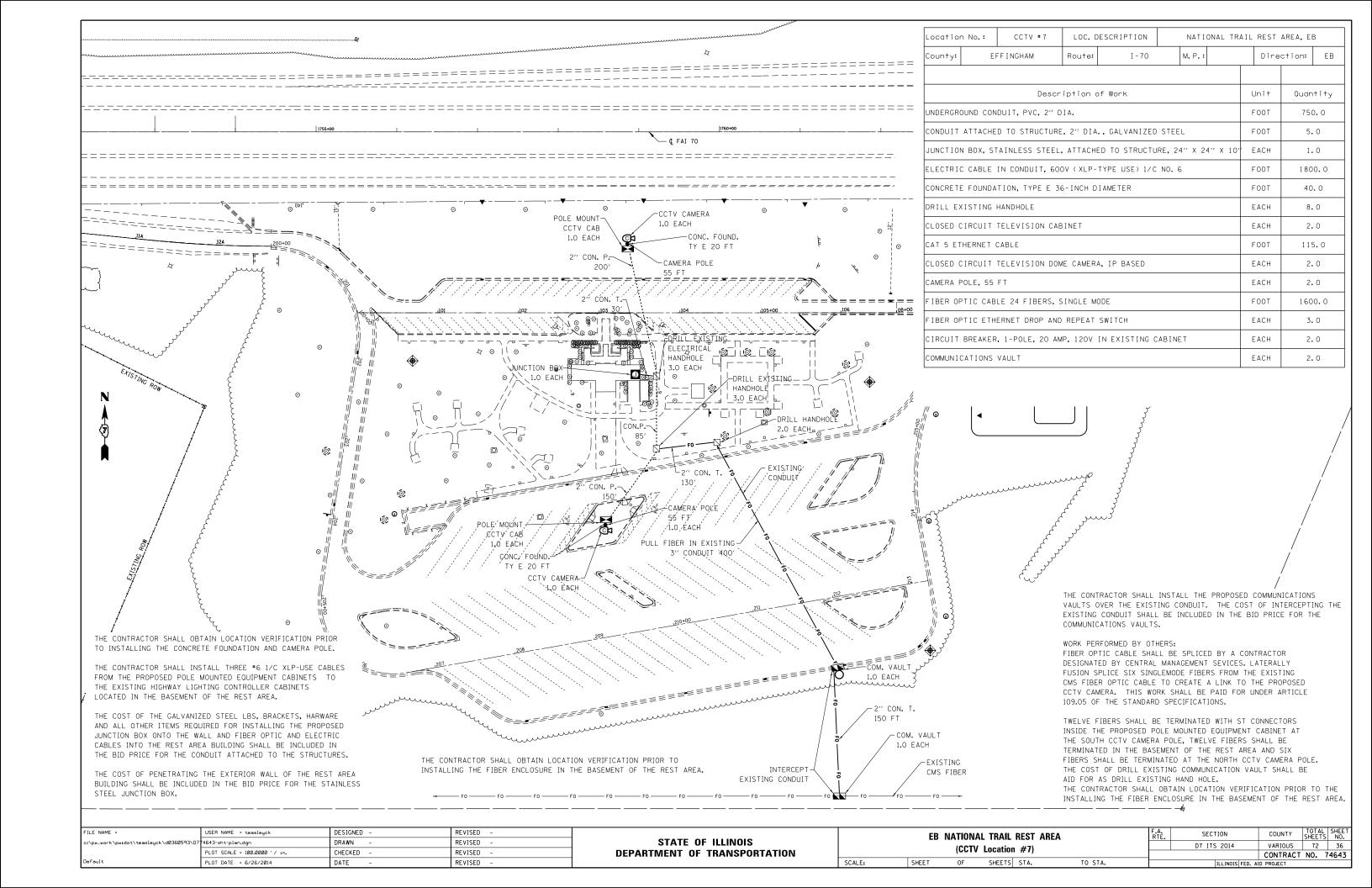


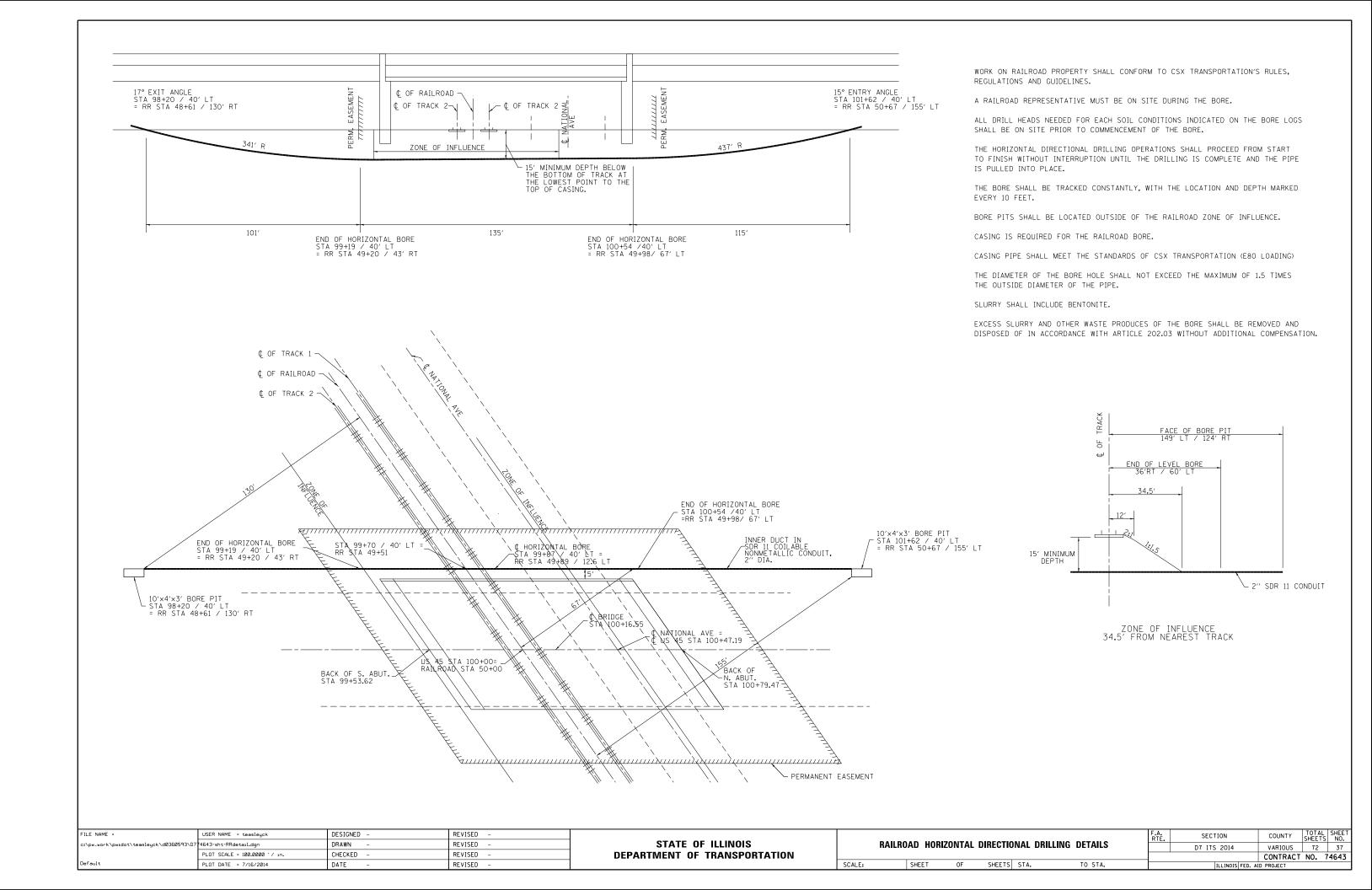












SECTION

Sheet 2 of 12

CONTRACTED WITH Hanson Engineers BORING NO. 6

PROJECT NAME FUTURE OVERPASS CONTRACT NO.

COCATION SEE 100 + 95

DATUM HAMMER WT. 1408 NAMMER DROP. 30" HOLE DIA 8"

SURFACE ELEV. 9912 CORE DIA.

CASINO. DRILLING METHOD HSA

FLEV.	DESCRIPTION	STRATA	DEPTH		- \$/	MPLE	: S		NOTES
	DESCRIPTION .	DEPTH	SCALE	BLOWS FT.	NO.	TYPE	RECOV.	QP	HOIES
591.2		0.0	30						#A 6" blk. clay
590,3	See #A	0.9		1					silt, root hairs
		1						1	4" wh. 1t. gr. i
- 1	Blk. brn. clayey sil	lt,				٠.,			crushed wh. toch
	w/tr. f. sand, w/coa			l	\vdash			1 1	w/f.c. sand fill
	f.c. gravel			2-2-2	1	SS	15"	1.2	moist
1									1
- 1						1			
. 1			ŀ					l .	
		1			-				1. 1
- 1		1	-5						1 .
585.4	fill moist	5.8	-	1-2-1	2	ss	17	0.7	WATER 3-3-94
	Brn. clayey silt, v		-		-				WAIER 3-3-94
84.3	tr. f. sand, occas. i	6.9							DD 23.0' 1:15pm
. 1	gravel moist	ļ	-						BAR DRY 1:45mm
	Lt. brn. 1t. gr.			3-5-7		ss		2.5	AAR 27.1' 2:00pr
	clayey silt, w/tr.		1	5-5-7	3	SS	18	2.5	The state of the s
- 1	f. sand, occas. f.	1							DWL 14.7' 11:00a
81.5	gravel till moist	9.7							3-4-94
- 1									
- 1			10	3-4-4	4	ss	18	1.3	Redrilled B#6A t
- 1				7-7-7	-	-00	10	1.3	13.0' Pushed 3"1
									11.0'-13.0' 44"
	Lt. gr. lt. brn.		L		-				recovery
.	clayey silt, w/f.	1.						1 1	1
- 1	sand, occas. f. grav	P1,		3-3-4	5	SS	18	0.8	1 1
	silt seams	1			-		1		1
									1
. [15						1
			1 2	3-4-6	6	ss	18	1.4	
			-		-				1
1.1			-		-				
- 1		1		L	-				1
- 1			-	2-3-4	7	ss	18	3.8	1 1
- 1									1
72.0	till moist	19.2	-						
	Brn. gr. silty clay,					58		4.5	
7 2.0									
120			20	16-27-	0	55	10	4.37	1
	w/tr. f. sand, occas f. gravel			16-27- 34	٥	-	10	4.37	1

	TNAME Future Overpass	jineer	S			_ BO	RING N	O T NO		0	
CATIO	Sta 100 + 85										
TUM_		140		HAMMER D	ROP	-	30"	HOL	E DIA.		-
RFAC TE ST	E ELEV. COR ARTED 3-3-94 COM	PLETED.		3-3-9	4		DRILLI	NG ME	THOD-	E	SA
LEV.	DESCRIPTION	STRATA	BEALE	BLOWS FT.		TYPE		QP		NOT	ES
			30								
					1						
568.4	till moist	22.8	-								
500.4	Gr. brn. weathered	1	1		-	-					
	shale, w/sandstone,		1								
	occas. 1t. gr. sandstone seams		r	100	_	1					
			25	11-12-							
565.5	moist Brn. gr. weathered	25.7		17	9	ss	18"	3.5			
	shale										
563.3	moist	27.9	Ī								
	Gr. shale, w/tr.										
	clay		-								
		1 .	L.,	22-30-		1					
	-		30	42	10	SS	18	3.0			
			ŀ		1	1					
	* * .										
	-						1				
558.3	moist	32.9	1								
	or. shale		-								
					-						
		1	Г	00/6"	11	SS	6				
			-		-	1					
553.9	dry-moist	37.3		-	L			l.			
553.9		+	·ſ	00/4"	12	ss	4				
	END OF BORING 37.3'		t-								
			-		1						
	4						1 .				
			F								
		1						1			
		1	1	1	1	1	1	1			4

PRO IFC	NAME FI	uture C	verpass					_ co	NTRAC	T NO	
OCATIO		ta . 98	+ 92					-			
DATUM_			AMMER WY	140:		HAMMER D	ROP		30"	_ HOLE	DIA 8 "
	E ELEV.	583.4	CORE	DIA	-				CASING		
		3-3-94	COMF	H ETED		3-3-94			DRILLI	NG METH	ooHSA
ELEV.		DESCRIP	пон	STRATA	DEPTH		S	AMPL	ES		NOTES
						BLOWS FT.	NO.	TYPE	RECOV.		#A Dk. brn.
583.4				0.0	30	1		1		1 1	silt, w/tr.
582.6	See #7	1		0.8							sand, root h
581,5	Lt. br	f. san	yey silt.			1				1 1	moist
30 1,0			moisi	1.9			_	-			
						8-4-6	1	ss	18"	1.5	
					-			1			i
								1		1 1	
	Lt. br	n. 1t.	gray	1	1			1			
	clayey	silt,	w/tr.		5-	B-4-5	2	ss	18	1.5	
	f. gra	id, occ	as.		1	1					WATER 3-3-94
	I. gra	ivel			1						DD 12.0' 8:4
					1						BAR 14.9' 9L
					1	B-5-6	3	I	18	1.5	AAR 5.5' 10:
					-	B-3-0	3	35	10	1	
				1		1		1			DWL 4.6' 10:
				1	-	ĺ					3-4-94
573.4	till	m	oist	10.0		1	4	١	18	0.9	Redrilled B#
	Lt. br	n. 1t.	gr. clay	ey	10	3-4-5	4	88	10	0.9	pushed 3" T,
		w/f. s		1			-				8.0' 23" r
	occas.	f. gr	avel							1 1	1
					1	L	5		17	0.5	
870.8	till		moist	12.6		2-3-3	5	SS	11/	0.5	
	I.t. 6**	. 1t.	hrn		1	1	-	+			
	silty	f.c. s	and, w/f.		-	1					
	gravel	, occa	s.	l			-			1	
568.2	clayey	silt	seams	15.2	15	L					1
	Lt. br	n. san	dstone,			5-35- 54	6	ss	18	2.5	
			r. silt	1	[r*					
566.6			moist	16.8	L		_				
					1	14-11-					
			y silt, occas.		1	12	7	ss	18	2.5	
			pockets		1			1			
	1-1	-110	pockets					1			
563.5	-		moist	19.9	20	16-26-					
					120	41	8		18		
				l	-		۲	1 "	1-0		

CENTRAL ILLINOIS DRIBLING COMPA
1999 OAKMOOD AVE.
LOG OF BORING
SLOOMMITTOR, LUSION BYTCH
(1999) BAC - GARGE

حُريص

LOG OF BORING

CENTRAL ILLINOIS DRILLING COMPANY 1909 OAKWOOD AVE. BLOOMINGTON, BLINOIS 81704 (308) 982-5988

-	_	-											
CONTRACTED V													
PROJECT NAME									CONTRACT	NO			
LOGATION													
DATUM		_	HAMMER	wr	140#		HAMMER	DROP	30"	_ HOLE DIA	8	н	
SURFACE ELEV													
DATE STARTED	3	1-3-9	94	COMP	LETED_	3	-3-94		DRILLIN	G METHOD	Н	SA	
								CAMI			Т		-

ELEV.	DESCRIPTION	STRATA	DEFTH	BLOWS FT.	, S.	AMPLI	5	Op	_	. NO	TES	
		DEPTH		BLOWS FT.	NO.	TYPE	RECOV.	NP.	-			
		 	30									
	Lt. gr. f. sand, w/						l					
	silt, sandstone	1						1				
			1		-							
558.9	wet	24.5		45-47- 53/5	9	ss	17"					
330.0	100	24.5		14-22-								
	Gr. brn. sandy		25		10	ss	18					
	weathered shale, w/		-	i	-							
	sandstone	1.	1									
558,0	moist	27.4	1									
	Lt. gr. shale	1	-									
			}						-			
				49-51/				4.5				
	-	1	30	3"	111	ss	9	4.5	1			
			ŀ					1	1			
	· ·											
	,		ŀ									
			L									
	moist	35.3			-		_					
548.1	moist	35.3	35	30-70/ 3"	12	SS	9	3.0	1			
			-	3								
	END OF BORING 35.3'								-			
					-							
			-									
			L									
			40									
			40									
- 1		1										

			125'-10'4"	_	
			Bk. to Bk. Abutments	3.018	
	5'-2'2"			00.	
		35-19'-58"			
	77	Skew (Typ.)			
	13.01				0,
34'-1'	4.000	Back of S. Abut.			
Boring 'B-7' 98+92 @ (C)	41.193	Sta. 99+53.62	_ € Banker Str	eet	Boring 'B-6' 100+85 @ €
*				X	33,
28-8"		3		Back of N. Abut. / Sta. 100+79.47	1 / 8°
28,	\6	4-3		4	3
1		12°	之之——		Cor.
					5'-2'2"
		10.	COOTING LAVOUT		
		6	FOOTING LAYOUT		

BORINGS & FOOTING LAYOUT BANKER STREET over CONRAIL RAILWAY SECTION 94-00073-02-BR EFFINGHAM, ILLINOIS STATION 100+16.55

DESIGNED	HAN
CHECKED	ENG!
DRAWN D.A.N.	
CHECKED M.E.A.	AFOR COUTH CIVIL CIPETT SPRIN

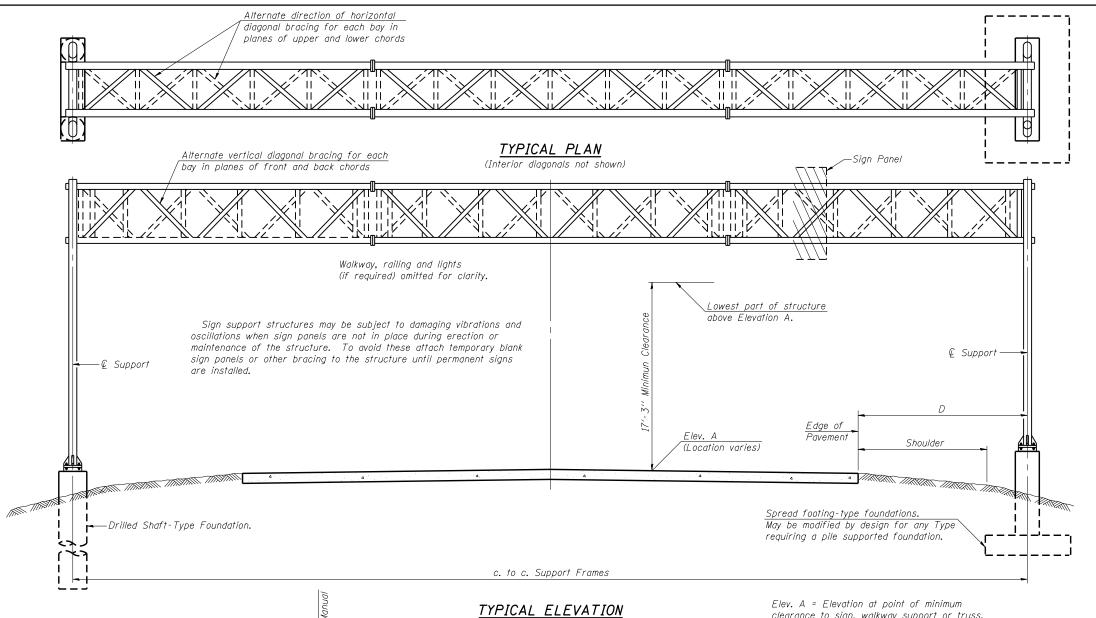
			H	IANSON NGINEERS
1525	SOUTH	SIXTH	STREET	SPRINGFIELD, IL 627

	9152019
03	7-21-95

할 때문에 항상되었다. 경험생활에 가장이 그리다 이 말			
FILE NAME =	USER NAME = steffenmk	DESIGNED -	REVISED -
c:\pw_work\pwidot\steffenmk\d0360593\D7	74643-sht-RRdetail.dgn	DRAWN -	REVISED -
	PLOT SCALE = 100.0000 '/ in.	CHECKED -	REVISED -
Default	PLOT DATE = 5/22/2014	DATE -	REVISED -

	RAILROAD	HORIZONTA	AL DIRECTIO	NAL DI	RILLING DETAILS	F
SCALE:	SHE	ET OF	SHEETS	STA.	TO STA.	

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	D7 ITS 2014	VARIOUS	72	38
		CONTRACT	NO. 7	4643
	TILL INDIS FED. AT	D PROJECT		



(Looking at Face of Signs**)

clearance to sign, walkway support or truss,

Structure Number	Station	Design Truss Type	c. to c. Supports	Elev. A	Dim. D	Height of Tallest Sign	Total Sign Area
7S025I070R080.40	1365+00	III-A	74'-0''	624.32′	25'-0'' RT	10'-0''	300 Sq Ft
					25'-0'' LT		
7S025I057R148.4	4500+00	III-A	78'-0''	602.89′	30'-0" RT	10'-0''	300 Sq Ft
					24'-0'' LT		
7S018I057L178.8	217+50	III-A	78′-0′	668.03′	25'-0" RT	10'-0''	300 Sq F+
					29'-0'' LT		
7S018I070L107.6	180+400	III-A	74'-0''	596.08′	24'-0" RT	10'-0''	300 Sq Ft
					26'-0'' LT		
7S012I070L155.0	515+51	III-A	82'-0'	543.10′	26'-0" RT	10'-0''	300 Sq Ft
					32'-0'' LT		

^{**}Looking upstation for structures with signs both sides.

* If M270 Gr. 50W (M222) steel is proposed, chemistry for plate to be used shall first be approved by the Engineer as suitable for galvanizing and welding.

GENERAL NOTES

DESIGN: AASHTO Standard Specifications for Structural Supports for Highway Signs, Luminaires and Traffic Signals. ("AASHTO Specifications")

CONSTRUCTION: Current (at time of letting) Illinois Department of Transportation Standard Specifications for Road and Bridge Construction, Supplemental Specifications and Special Provisions. ("Standard Specifications")

LOADING: 90 M.P.H. WIND VELOCITY

WALKWAY LOADING: Dead load plus 500 lbs, concentrated live load.

DESIGN STRESSES:

Field Units

f'c = 3,500 p.s.i.

fy = 60,000 p.s.i. (reinforcement)

WELDING: All welds to be continuous unless otherwise shown. All welding to be done in accordance with current AWS D1.1 and D1.2 Structural Welding Codes (Steel and Aluminum) and the Standard Specificiations.

MATERIALS: Aluminum Alloys as shown throughout plans. All Structural Steel Pipe shall be ASTM A53 Grade B or A500 Grade B or C. If A500 pipe is substituted for A53, then the outside diameter shall be as detailed and wall thickness greater than or equal to A53. All Structural Steel Plates and Shapes shall conform to AASHTO M270 Gr. 36, Gr. 50 or Gr. 50W*. Stainless steel for shims, sleeves and handhole covers shall be ASTM A240, Type 302 or 304, or another alloy suitable for exterior exposure and acceptable to the Engineer.

The steel pipe and stiffening ribs at the base plate for the column shall have a minimum longitudinal Charpy V-Notch (CVN) energy of 15 lb.-ft. at 40° F. (Zone 2) before galvanizing.

FASTENERS FOR ALUMINUM TRUSSES: All bolts noted as "high strength" must satisfy the requirements of AASHTO M164 (ASTM A325), or approved alternate, and must have matching lock nuts. Threaded studs for splices (if Members interfere) must satisfy the requirements of ASTM A449, ASTM A193, Grade B7, or approved alternate, and must have matching lock nuts. Bolts and lock nuts not required to be high strength must satisfy the requirements of ASTM A307. All bolts and lock nuts must be hot dip galvanized per AASHTO M232. The lock nuts must have nylon or steel inserts. A stainless steel flat washer conforming to ASTM A240 Type 302 or 304, is required under both head and nut or under both nuts where threaded studs are used. High strength bolt installation shall conform to Article 505.04 (f) (2)d of the IDOT Standard Specifications for Road and Bridge Construction. Rotational capacity ("ROCAP") testing of bolts will not be required.

U-BOLTS AND EYEBOLTS: U-Bolts and Eyebolts must be produced from ASTM A276 Type 304, 304L, 316 or 316L, Condition A, cold finished stainless steel, or an equivalent material acceptable to the Engineer. All nuts for U-Bolts and Eyebolts must be lock nuts equivalent to ASTM A307 with nylon or steel inserts and hot dip galvanized per AASHTO M232. A stainless steel flat washer conforming to ASTM A240, Type 302 or 304, is required under each U-Bolt and Eyebolt lock nut.

GALVANIZING: All Steel Grating, Plates, Shapes and Pipe shall be Hot Dip Galvanized after fabrication in accordance with AASHTO M111. Painting is not

ANCHOR RODS: Shall conform to ASTM F1554 Gr. 105.

CONCRETE SURFACES: All concrete surfaces above an elevation 6" below the lowest final ground line at each foundation shall be cleaned and coated with Bridge Seat Sealer in accordance with the Standard Specifications.

REINFORCEMENT BARS: Reinforcement Bars designated (E) shall be epoxy coated in accordance with the Standard Specifications.

FOUNDATIONS: The contract unit price for Concrete Foundations and Drilled Shaft Concrete Foundations shall include reinforcement bars complete in place.

TOTAL BILL OF MATERIAL

ITEM	UNIT	TOTAL
OVERHEAD SIGN STRUCTURE SPAN TYPE I-A	Foot	-
OVERHEAD SIGN STRUCTURE SPAN TYPE II-A	Foot	-
OVERHEAD SIGN STRUCTURE SPAN TYPE III-A	Foot	386
OVERHEAD SIGN STRUCTURE WALKWAY TYPE A	Foot	-
CONCRETE FOUNDATIONS	Cu. Yds.	-
DRILLED SHAFT CONCRETE FOUNDATIONS	Cu. Yds.	115.8

0S-A-1

10 p.s.f

analysis for all components.

6-1-12

30 p.s.f. (See Sign Structures

Manual for max. sign areas)

Maximum Lenath

c. to c. Support Frames (See Sign Structures Manual)

DESIGN WIND LOADING DIAGRAM

Parameters shown are basis for I.D.O.T. Standards and Sign Manual Tables. Installations not within dimensional limits shown require special

FILE NAME =	USER NAME = steffenmk	DESIGNED -	REVISED -
c:\pw_work\pwidot\steffenmk\d0360593\D7	74643-sht-detail.dgn	DRAWN -	REVISED -
	PLOT SCALE = 100.0000 '/ in.	CHECKED -	REVISED -
Default	PLOT DATE = 6/19/2014	DATE -	REVISED -

10 p.s.f.

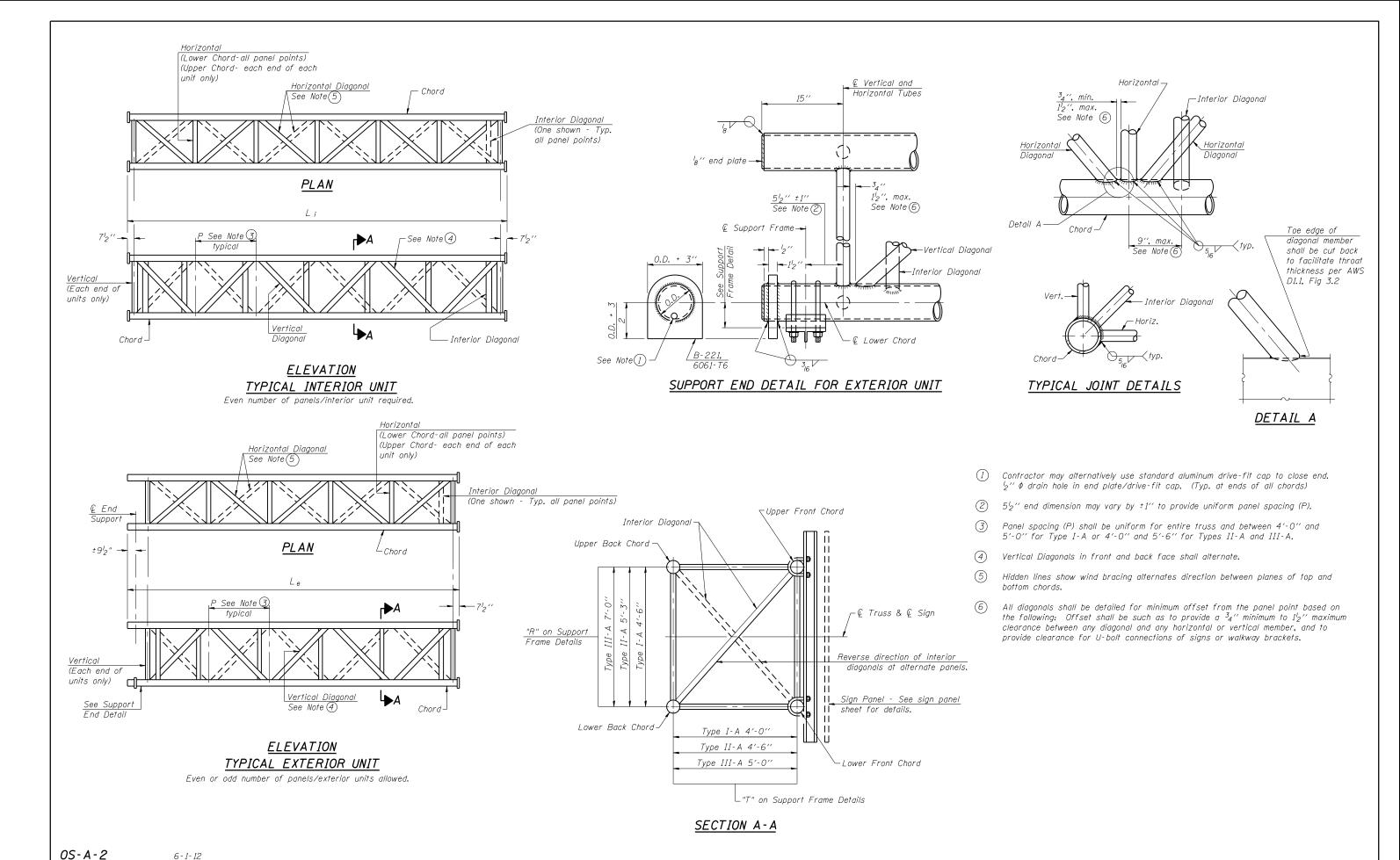
End Support

34'-0'', max Tvpe III-A

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

OVERHEAD SIGN STRUCTURES - GENERAL PLAN & **ELEVATION - ALUMINUM TRUSS & STEEL SUPPORTS** SCALE: SHEET SHEETS STA.

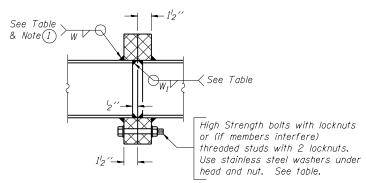
SECTION COUNTY VAR D7 ITS 2014 72 39 EFFINGHAM, CUMBERLAND CONTRACT NO. 74643 CLARK & LAWRENCE THE INDISERD AND PROJECT



USER NAME = steffenmk DESIGNED -REVISED SECTION COUNTY OVERHEAD SIGN STRUCTURES - ALUMINUM TRUSS STATE OF ILLINOIS 74643-sht-detail.don DRAWN REVISED VAR D7 ITS 2014 72 40 DETAILS FOR TRUSS TYPES I-A, II-A AND III-A PLOT SCALE = 100.0000 '/ in. CHECKED REVISED **DEPARTMENT OF TRANSPORTATION** CONTRACT NO. 74643 EFFINGHAM, CUMBERLAND SCALE: SHEETS STA. PLOT DATE = 5/22/2014 DATE REVISED CLARK & LAWRENCE THE INDISERD AND PROJECT

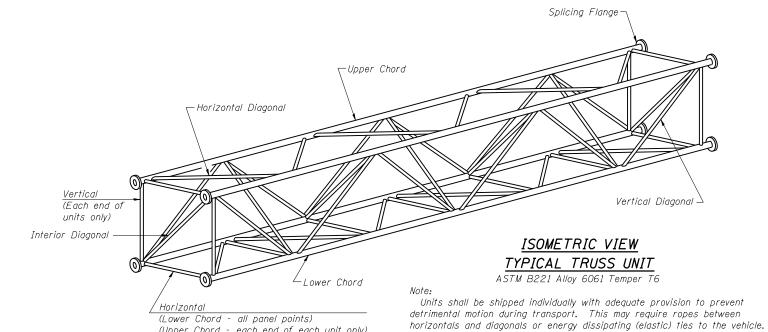
TRUSS UNIT TABLE

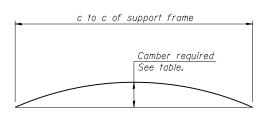
Structure		Design Truss	Exte	Exterior Units (2)		(2) Interior Unit		Interior Unit			Interior Unit		Interior Unit U,				Verticals; Horizontals; Vertical,		Camber			Splicing	Flange	!	
Number	Station	Type	No. Panels		Panel	No.	No. Panels	Unit	Panel			Horizontal, and Interior Diagonals		at Midspan	Bolts			Sizes	Δ	В					
		1 1	per Unit	Lgth.(Le)	Lgth.(P)	Req'd.	per Unit	Lgth.(L;)	Lgth.(P)	0.D.	Wall	0.D.	Wall	<u>'</u>	No./Splice	Dia.	W	W_{I}	,,						
7S025I070R080.40	1365+00	III-A	7	37'-9''	5'-11/2''	0	-	-	-	7''	5/16 ′′	31/4′′	5/16 ′′	1''	6′′	1′′	7/16 ′′	5/16 ′′	111/2′′	15′′					
																				(I					
7S025I057R148.4	4500+00	III-A	7	39'-91/2'	5′-5′′	0	-	-	-	7''	5/16 ′′	31/4′′	5/16 ′′	1''	6′′	1′′	7/16 ′′	5/16 ′′	111/2′′	15′′					
																				(L					
7S018I057L178.8	217+50	III-A	7	39'-91/2''	5′-5′′	0	-	-	-	7''	5/16 ′′	31/4′′	5/16 ′′	1′′	6′′	1′′	⅓ ₆ ′′	5/16 ′′	111/2′′	15′′					
																				(
7S018I070L107.6	180+400	III-A	7	37′-9′′	5'-11/2"	0	=	-	=	7''	5/16 ′′	31/4′′	5/16 ′′	1''	6''	1′′	7/16 ′′	5/16 ′′	111/2′′	15′′					
7S012I070L155.0	515+51	III-A	5	26'-51/2"	4'-11''	1	6	30'-9''	4'-11''	7''	5/16 ′′	31/4′′	5/6′′	1''	6′′	1′′	7/16 ′′	5/16 ′′	111/2′′	15′′					
																				í I					



SECTION B-B

1) Splicing Flanges shall be attached to each truss unit with the truss shop assembled to camber shown. Truss units shall be in proper alignment and flange surfaces shall be shop bolted into full contact before welding. Sufficient external welds or tacks shall be made to secure flanges until remaining welds are made after disassembly. Adjacent flanges shall be "match marked" to insure proper field assembly.



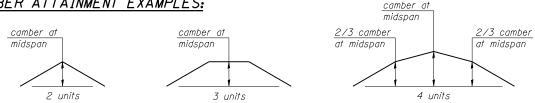


(Upper Chord - each end of each unit only)

CAMBER DIAGRAM

Camber curve shown is theoretical. Actual camber attained by slope changes at splices between units.

CAMBER ATTAINMENT EXAMPLES:



Camber shown is for fabrication only, measured with truss fully supported. (No-load condition)

0S4-A-2

6-1-12

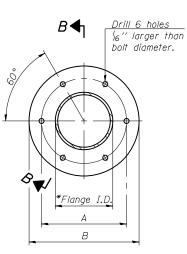
FILE NAME = USER NAME = steffenmk		DESIGNED -	REVISED -	
	c:\pw_work\pwidot\steffenmk\d0360593\D7	74643-sht-detail.dgn	DRAWN -	REVISED -
		PLOT SCALE = 100.0000 '/ in.	CHECKED -	REVISED -
	Default	PLOT DATE = 6/19/2014	DATE -	REVISED -

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

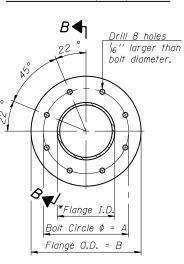
OVERHEAD	O SIGN	STRUCT	URES – AL	.UMINUN	1 TRUSS DETAILS	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	FOR	TRIISS TV	/DEC I_A I	LA AND) III—A	VAR	D7 ITS 2014	•	72	41
							* EFFINGHAM, CUMBERLAND CONTRAC			74643
SCALE:	SHEET	OF	SHEETS	STA.	TO STA.	CLARK	& LAWRENCE ILLINOIS FED. AL	D PROJECT		

The Contractor is responsible for maintaining the configuration and

protection of the units.



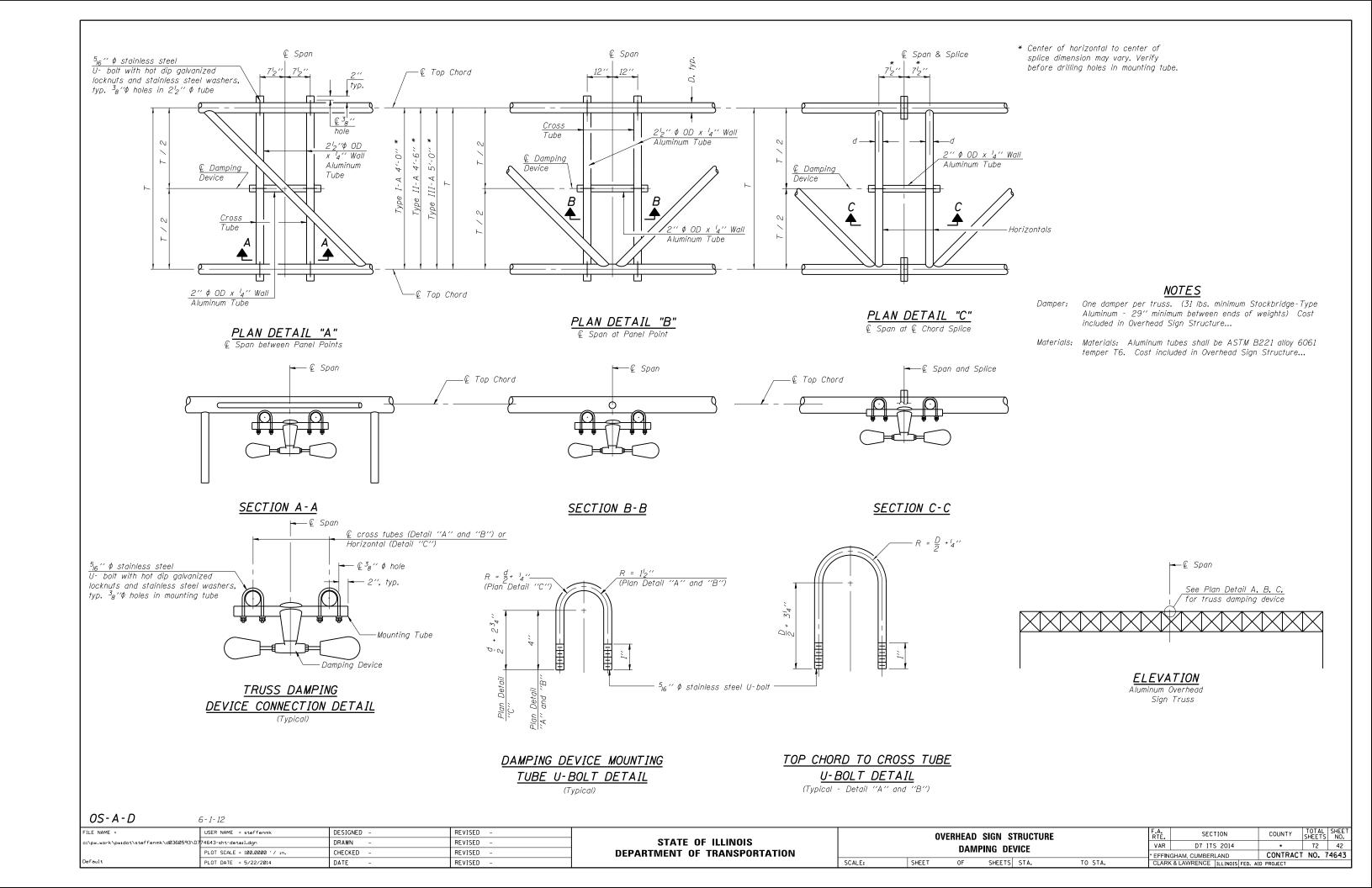
TRUSS TYPES I-A, II-A, & III-A

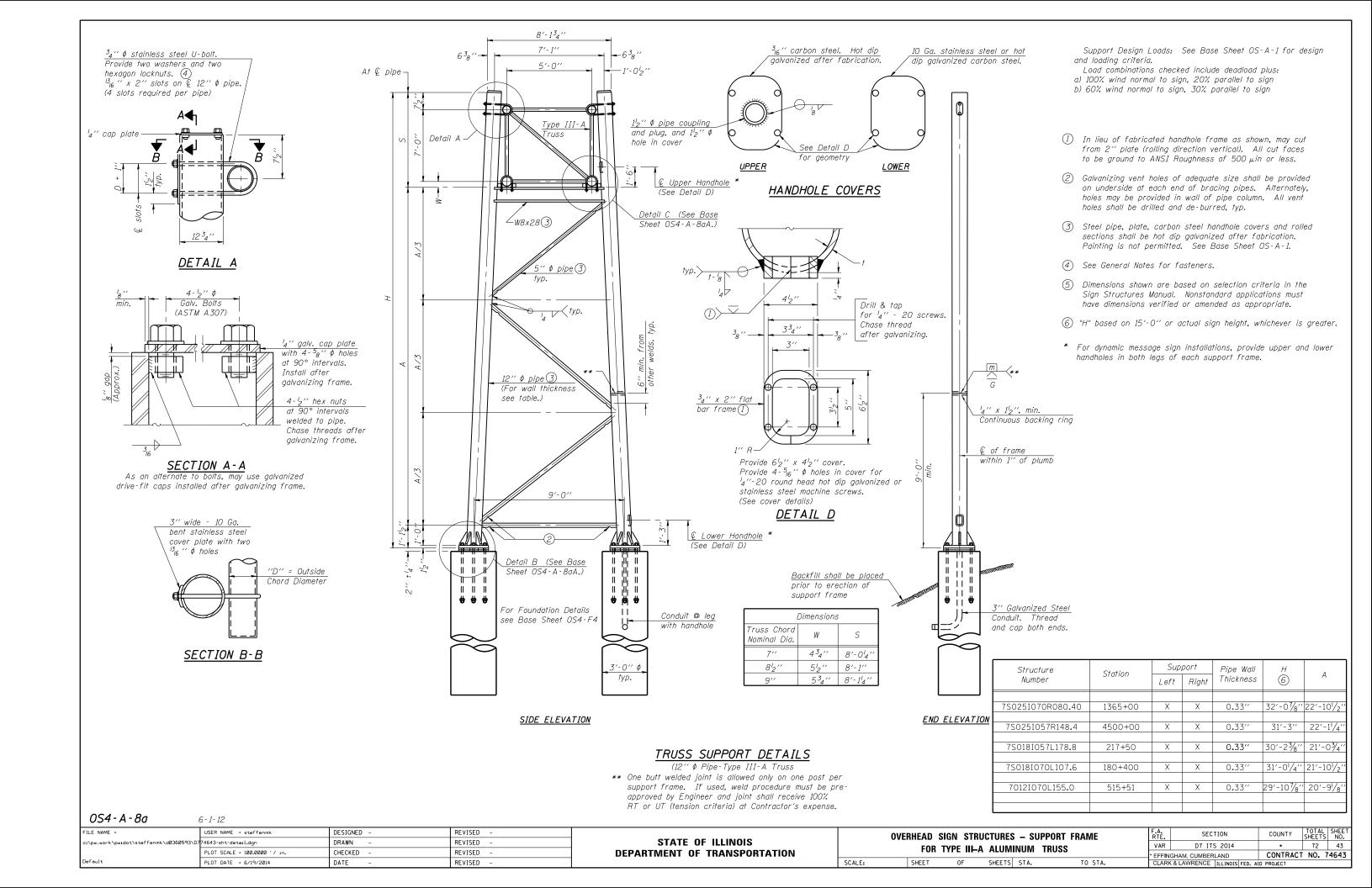


TRUSS TYPES II-A & III-A

SPLICING FLANGES

ASTM B221, Alloy 6061-T6 or ASTM B209, Alloy 6061-T651 *To fit O.D. of Chord with maximum gap of $\frac{1}{6}$ ".





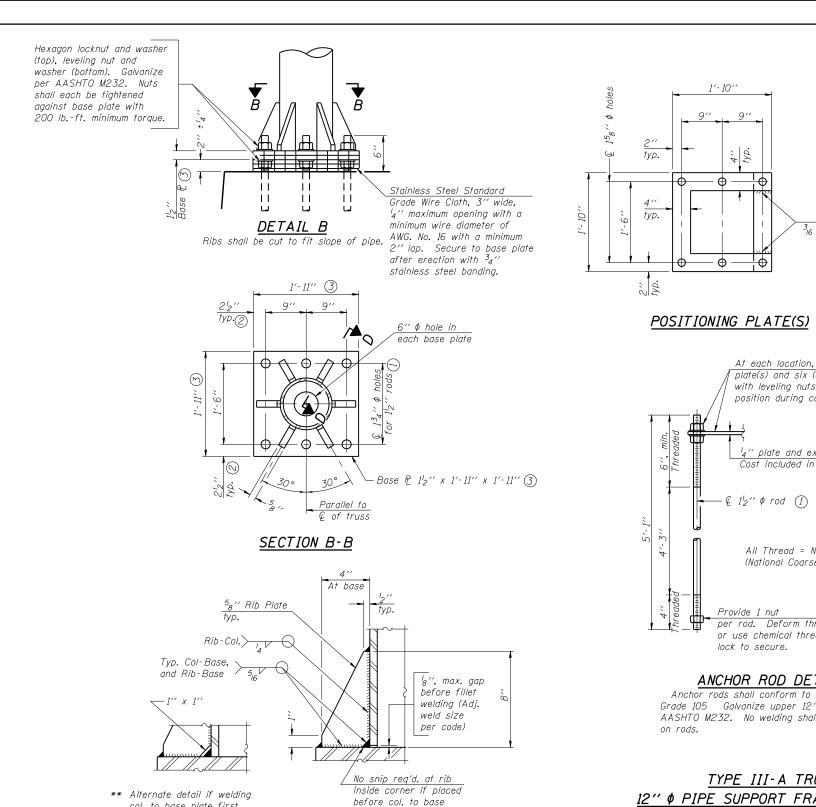
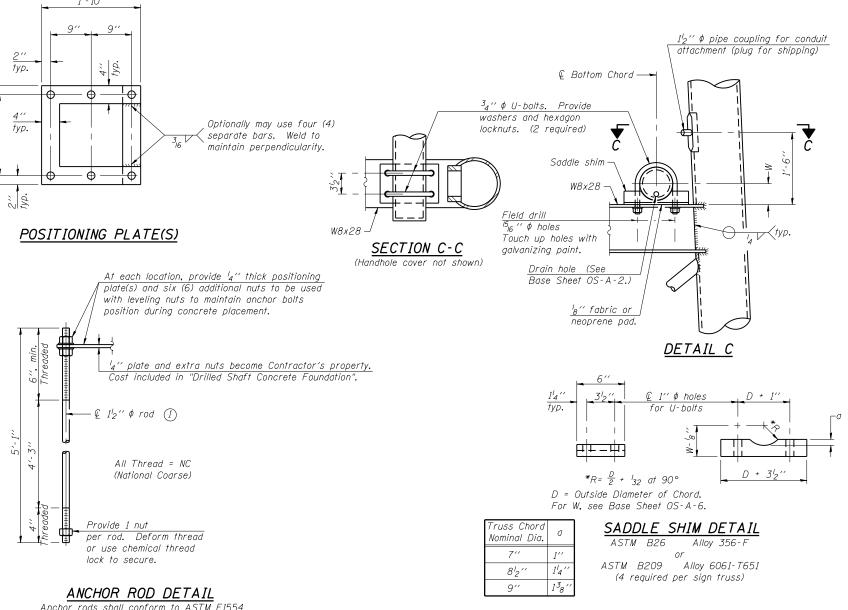


plate welding.**

SECTION D-D



Anchor rods shall conform to ASTM F1554 Grade 105 Galvanize upper 12'' minimum per AASHTO M232. No welding shall be permitted

TYPE III-A TRUSS 12" | PIPE SUPPORT FRAME DETAILS

For Type III-A Truss spans greater than 150 ft, and up to 160 ft.:

- 1) $1^{3}4'' \phi \text{ rod, } 2'' \phi \text{ holes}$
- (2) 2^{3}_{4} '' edge distance
- 3) Base £ 1⁵8" x 1'-11'2" x 1'-11'2"

054	- Δ	- 8aA
037	$\overline{}$	OUA

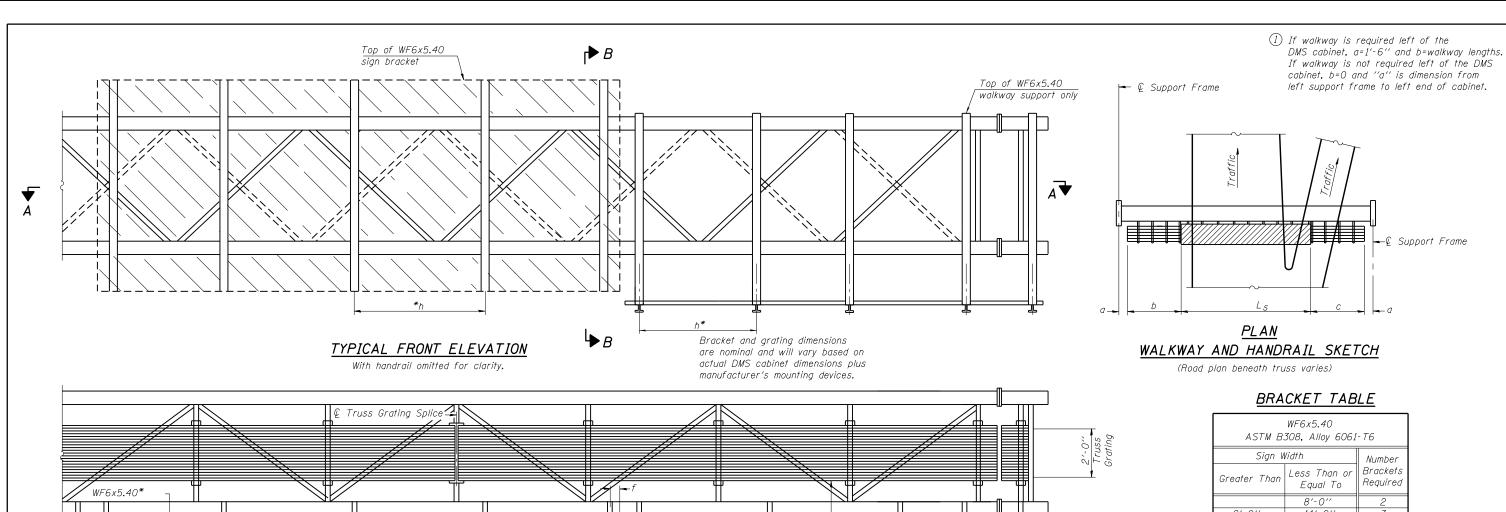
6-	1-	12

col. to base plate first,

then snip inside corner of ribs. Terminate weld

on rib $\frac{1}{4}$ " from snip.

F	LE NAME =	USER NAME = steffenmk	DESIGNED -	REVISED -	STATE OF ILLINOIS OVERHEAD SIGN STRUCTURES F.A. VAR.		F.A.	SECTION	COUN.	Y TOTA	AL SHEET					
c	\pw_work\pwidot\steffenmk\d0360593\D7	74643-sht-detail.dgn	DRAWN -	REVISED -					D7 ITS 2014		72	44				
		PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION	SUPPORT FRAME FOR TYPE III—A ALUMINUM TRUSS			* EFFINGHAM. CUMBERLAND		CONT	CONTRACT NO. 7464				
D	efault	PLOT DATE = 5/22/2014	DATE -	REVISED -		SCALE:	SHEET	OF	SHEETS	STA.	TO STA.	CLARK & L	AWRENCE ILLINOIS	FED. AID PROJECT		



WF6x5.40 ASTM B308, Alloy 6061-T6									
Sign W	Number								
Greater Than	Less Than or Equal To	Brackets Required							
	8'-0''	2							
8′-0′′	14'-0''	3							
14'-0''	20'-0''	4							
20'-0''	26'-0''	5							
26′-0′′	32'-0''	6							

SECTION A-A

└ Dynamic Message Sign Cabinet

Gratina Tiè-downs

Handrail and walkway shall span a minimum of three brackets between splices and/or gap joints. Place all sign and walkway brackets as close to panel points as practical. Grating and handrail splices placed as needed.

Structure Number	Station	а	Ь	С	Ls	Walkway Grating and Handrail Lengths
7S025I070R080.40	1365+00	1'-6''	20'-6''	20'-6''	30'-0''	41'-0''
7S025I057R148.4	4500+00	1'-6''	22'-6''	22'-6''	30'-0''	45'-0''
7S018I057L178.8	217+50	1'-6''	22'-6''	22'-6''	30'-0''	45'-0''
7S018I070L107.6	180+400	1'-6''	20'-6''	20'-6''	30'-0''	41'-0''
7S012I070L155.0	515+51	1'-6''	24'-6''	24'-6''	30'-0''	49'-0''

Handrail, see \OS-A-11-DMS

Notes:

Safety Chain

└─ Standard Aluminum Grating

Truss grating to facilitate inspection shall run full length (center to center of support frames) ±12" on overhead trusses.

Cost of truss grating is included in "Overhead Sign Structure".

WF6x5.40*

- * Space walkway brackets WF6x5.40 for efficiency and within limits shown:
- f = 12" maximum, 4" minimum (End of sign to Q of nearest bracket)
- g = 12" maximum, 4" minimum (End of walkway grating to Q of nearest support bracket)
- h = 6' 0'' maximum (ℓ to ℓ sign and/or walkway support brackets, WF6x5.40

Maximum DMS weight = 5000 lbs. 4'-2" maximum cabinet depth includes depth of cabinet plus connection to WF6x5.40.

For Section B-B and Grating Splice Details, see Base Sheet OS-A-10-DMS. For Handrail Splice Details, see Base Sheet OS-A-11-DMS.

OS-A-9-DMS

6-1-12

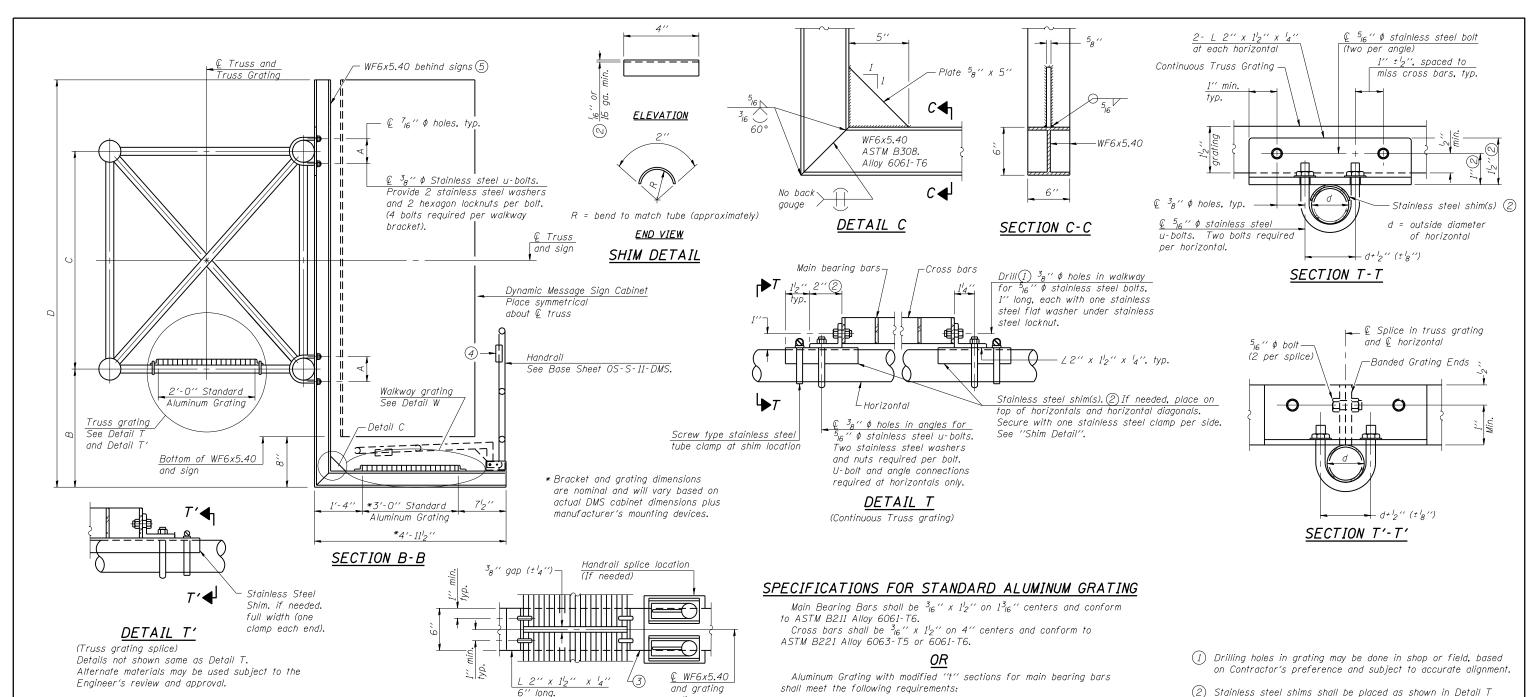
Walkway and Truss Grating

available standard widths.

width dimensions are nominal and may vary $\pm \frac{1}{2}$ " based on

FILE NAME =	USER NAME = steffenmk	DESIGNED -	REVISED -
c:\pw_work\pwidot\steffenmk\d0360593\D7	74643-sht-detail.dgn	DRAWN -	REVISED -
	PLOT SCALE = 100.0000 '/ in.	CHECKED -	REVISED -
Default	PLOT DATE = 6/19/2014	DATE -	REVISED -

	OVERHEAD SIGN STRUCTURES							SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	ALTERNATE ALUMINUM WALKWAY DETAILS FOR DMS							D7 ITS 2014	•	72	45
	ALILIN	AIL AL	OIVIIIVOIVI	VVALIV	* EFFIN	GHAM, CUMBERLAND	CONTRACT	NO. '	74643		
SCALE:		SHEET	OF	SHEETS	STA.	TO STA.	CLARK	& LAWRENCE ILLINOIS FED. AL	D PROJECT		



splice

Continuous handrail hinge

(AT WALKWAY GRATING SPLICE)

(CONTINUOUS WALKWAY GRATING) SECTION W-W

Main bars shall conform to ASTM B221 Alloy 6\(\textit{G}61-T6 \) and have a minimum section modulus equal to 0.0705 in. per bar, a depth of $1_2^{\prime\prime}$, spaced on $1_{16}^{3\prime\prime}$ centers.

Cross bars shall conform to ASTM B221 Alloy 6063-T5 or T-42 and spaced on 4" centers.

Structure Number	Station	А	© B	С	6 D
7S025I070R080.40	1365+00	71/2''	2'-2''	7′-0′′	10'-8''
7S025I057R148.4	4500+00	71/2′′	2'-2''	7′-0′′	10'-8''
7S018I057L179.2	217+50	71/2′′	2'-2''	7′-0′′	10'-8''
7S018I070L107.6	180+400	71/2′′	2'-2''	7'-0''	10'-8''
7S012I070L155.0	515+51	71/2′′	2'-2''	7′-0′′	10'-8''

- 2) Stainless steel shims shall be placed as shown in Detail T if needed to compensate for alignment variations between horizontal and diagonal pipes beyond adjustment provided by angles. Thicker shims may be used subject to shims performing properly.
- (3) If Handrail Joint present, weld angle to WF(A-N)4 and $^{\prime}_{4}$ " extension bars. (See Base Sheet OS-A-11.)
- (4) \mathbb{R}^{l_8} " \times l_2 " \times 2" welded to handrail posts to protect locations that contact grating.
- (5) Cabinet manufacturer must design and supply hardware for connection of cabinet to WF6's. Bolts must be stainless steel or hot dip galvanized high strength per IDOT specifications.
- (6) Based on actual height of tallest sign given on OS-A-1.

OS-A-10-DMS

Grating width plus 18"

DETAIL W

(Walkway grating)

6-1-12

USER NAME = steffenmk DESIGNED -REVISED 74643-sht-detail.don DRAWN REVISED PLOT SCALE = 100.0000 '/ in. CHECKED REVISED PLOT DATE = 6/19/2014 DATE REVISED

Drill $\bigcirc 1$ $\bigcirc 3_8$ " $\bigcirc \phi$ holes in walkway

for 5₁₆" \$\phi\$ stainless steel bolts,

I'' long, each with one stainless

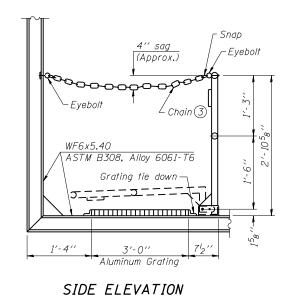
steel locknut and two stainless

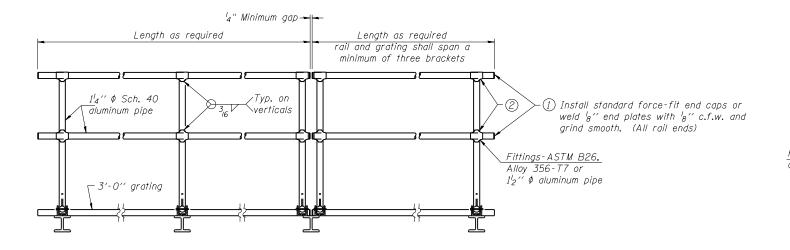
 $2\frac{1}{2}$ " long at continuous grating,

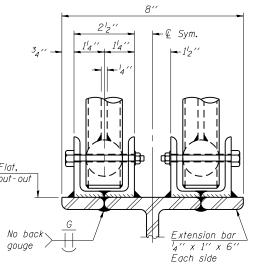
long at grating splices.

steel flat washers.

	OV	ERHEAD	SIGN ST	F.A. RTE.	SECT	TION	COUNTY	TOTAL SHEETS			
ALTER	NATE ALL	INTINIIN	W/VI K/W	/AV DETAIL	S FOR DMS	VAR	D7 ITS	2014	•	72	46
ALILI	INAIL ALC	, IVIII V O IVI	VVALIVV	AI DEIAIL	3 TON DIVIS	* EFFIN	GHAM, CUMBERI	LAND	CONTRACT	NO.	74643
SCALE:	SHEET	OF	SHEETS	STA.	TO STA.	CLARK	& LAWRENCE	ILLINOIS FED. A	ID PROJECT		





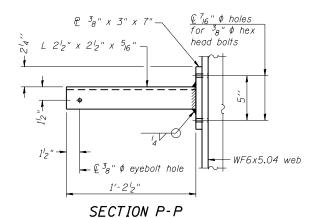


ELEVATION AT HANDRAIL JOINT (4)

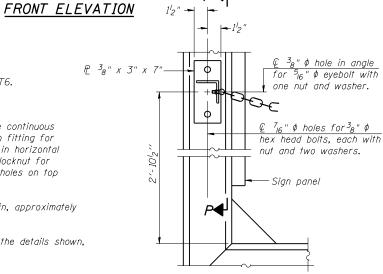
See "ELEVATION" at right for dimensions.

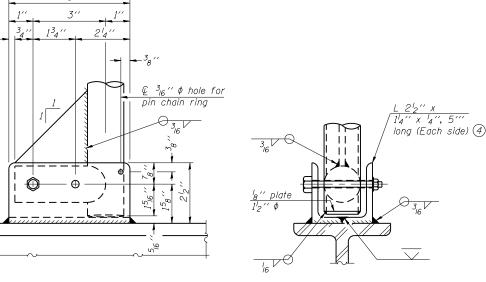
(Showing safety chain w/o sign)

HANDRAIL DETAILS
Handrail pipe shall be ASTM B241, Alloy 6063-T6 or Alloy 6061-T6.



- (2) Horizontal handrail member shall be continuous thru fitting. Provide $^7_{16}$ ' $^{\phi}$ hole in fitting for 3_8 '' $^{\phi}$ bolt. Field drill $^7_{16}$ '' $^{\phi}$ hole in horizontal rail member. Provide washer and locknut for bolt. (Use $^5_{16}$ '' eyebolts in $^7_{16}$ '' $^{\phi}$ holes on top rail at ends only.)
- 3 36" type 304L stainless steel chain, approximately 12 links per foot.
- (4) Extrusions may be used in lieu of the details shown, with approval of the Engineer.

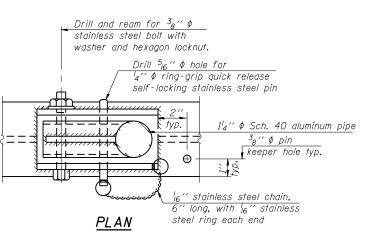


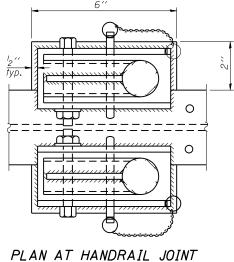


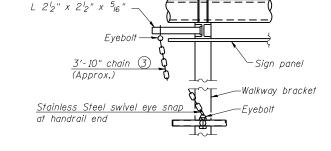
ALTERNATE SAFETY CHAIN ATTACHMENT

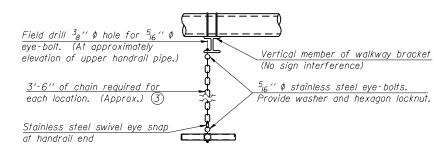
(With Sign Present) Items not shown same as ''Side Elevation" of "Handrail Details"

SIDE ELEVATION FRONT ELEVATION









ALTERNATE SAFETY CHAIN ATTACHMENT

Details not shown similar to "Safety Chain" Details (Walkway omitted for clarity)

SCALE:

SAFETY CHAIN

One required for each end of each walkway.

OS-A-11-DMS

DETAIL E HANDRAIL HINGE

6 - 1 - 12

FILE NAME =	USER NAME = steffenmk	DESIGNED -	REVISED -
c:\pw_work\pwidot\steffenmk\d0360593\D7	74643-sht-detail.dgn	DRAWN -	REVISED -
	PLOT SCALE = 100.0000 '/ in.	CHECKED -	REVISED -
Default	PLOT DATE = 5/22/2014	DATE -	REVISED -

OVERHEAD SIGN STRUCTURES	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
ALTERNATE ALUMINUM HANDRAIL DETAILS FOR DMS	VAR	D7 ITS 2014	•	72	47
ALIENWATE ALOWINSON HANDHALE DETAILS TON DIVIS	* EFFIN	GHAM, CUMBERLAND	CONTRACT	NO. 7	4643
SHEET OF SHEETS STA. TO STA.	CLAR	(&LAWRENCE TILINOIS FED. AT	D. PROJECT		

BAR LIST - EACH FOUNDATION

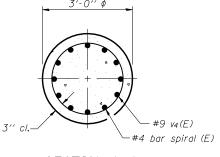
Bar	Number	Size	Length	Shape
V4(E)	24	#9	F less 5"	
#4 bo	ar spiral (i	E) - see :	Side Elevatio	าก

The foundation dimensions shown are based on the presence of mostly cohesive soils with an average Unconfined Compressive Strength (Qu) of at least 1.25 tsf, which must be determined by previous soil investigations at the jobsite. When other conditions are indicated, result of site specific designs.

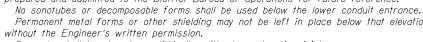
"B" or "F" are revised by more than 12" by the Contractor, "as-built" plans shall be prepared and submitted to the District Bureau of Operations for future reference.

Permanent metal forms or other shielding may not be left in place below that elevation

in Drilled Shaft Concrete Foundation.



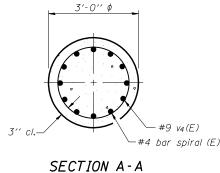
the boring data will be included in the plans and the foundation dimensions shown will be the If the conditions encountered are different than those indicated, the Contractor shall notify the Engineer to determine if the foundation dimensions need to be modified. If dimensions



Concrete shall be placed monolithically, without construction joints.

Backfill shall be placed per Article 502 of Standard Specification and prior to erection

A normal surface finish followed by a Bridge Seat Sealer application will be required on concrete surfaces above the lowest elevation 6" below finished ground line. Cost included



For anchor rod size and placement,

see Support Frame Detail Sheet.

END VIEW

Elevation (Bottom)

3" ♦ Galvanized Steel

Conduit, Thread

and cap both ends.

Elevation (Top)

* Anchor rod shall be ground or filed to bright metal at clamp and cable connection location.

DETAILS FOR 12" \$ SUPPORT FRAME TYPE III-A TRUSS

Ct. t.				Left Fo	nundation			Right Fo	nundation			Class DS
Structure Number	Station	Elevation Top	Elevation Bottom	А	В	F	Elevation Top	Elevation Bottom	А	В	F	Concrete (Cu. Yds.)
7S025I070R080.40	1365+00	622.13′	602.13′	2'-0''	18'-0''	20'-0''	622.13′	602.06′	2'-1''	18′	20'-1''	21.1
7S025I057R148.4	4500+00	601.01′	580.87′	2'-11/2''	18'-0''	20'-11/2''	601.01′	581.01′	2′0′′	18'	20'-0''	21.0
7S018I057L178.8	217+50	667.20′	647.20′	2'-0''	18'-0''	20'-0''	667.20′	646.61′	2'-7''	18′	20'-7''	21.3
7S018I070L107.6	180+400	594.94′	574.94′	2'-0''	18'-0''	20'-0''	594.94′	574.07′	2'-101/2''	18′	20'-101/2''	21.5
7S012I070L155.0	515+51	542.57′	521.16′	3′-5′′	18'-0''	21′-5′′	542.57′	522.57′	2'-0''	18′	20'-0''	21.6

0S4-F4

spiral (E) at 6"

12-#9 v₄(E) bars-

3 hoops minimum top and bottom

<u>3'-</u>0'' ø

6-1-12

9'-0" & to &

Approved clamps \for grounding*

#6 copper wire or cable

3'-0" ¢

 $\frac{3}{4}$ " ϕ x 10'-0" copper weld ground rod driven into ground 9'-0". Cost of rod, cable, conduit, caps and clamps shall be included in Drilled Shaft Concrete Foundations.

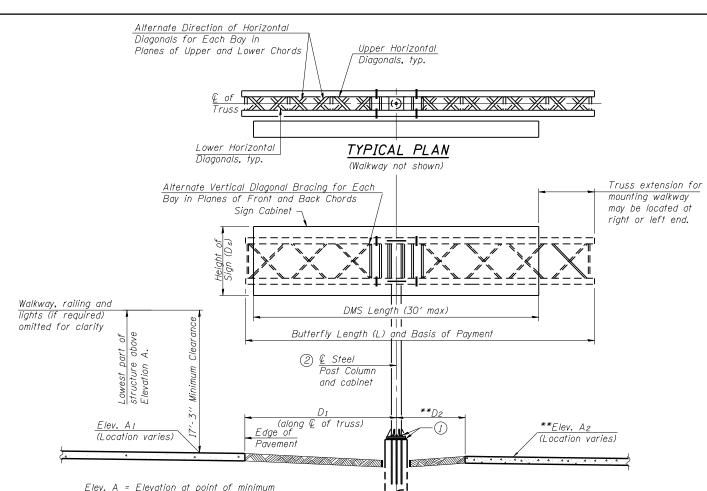
SIDE ELEVATION

12'-0"

9'-0"

PLAN

FILE NAME =	USER NAME = steffenmk	DESIGNED -	REVISED -			0)	/FRHFAD	SIGN ST	RUCTURES		F.A.	SECTION	COUNTY	TOTAL SHEET
c:\pw_work\pwidot\steffenmk\d0360593\D7	74643-sht-detail.dgn	DRAWN -	REVISED -	STATE OF ILLINOIS			DRILLED SHAFT DETAILS					D7 ITS 2014		72 48
	PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION			DKILLED	SHAFI I	DETAILS		* EFFING	SHAM, CUMBERLAND	CONTRAC	T NO. 74643
Default	PLOT DATE = 6/19/2014	DATE -	REVISED -		SCALE: SHEET OF SHEETS STA. TO STA.		TO STA.	CLARK	& LAWRENCE ILLINOIS FED	AID PROJECT				



** Elevation A2 and dimension D2 not used when butterfly structure is mounted on right side of the shoulder.

clearance to sign, walkway support or truss.

TYPICAL ELEVATION

Looking in Direction of Traffic

Sign support structures may be subject to damaging vibrations and oscillations when signs are not in place during erection or maintenance of the structure. To avoid these vibrations and oscillations, consideration should be given to attaching temporary blank sign panels to the structure.

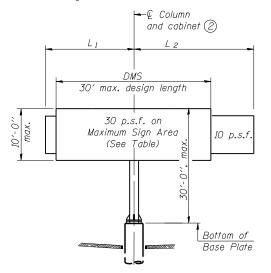
Structure Number	Station	Total Butterfly Length (L)	Elev. A _I	Elev. A ₂	Dim. D ₁	Dim. D ₂	Ds	Total Sign Area	Access door and walkway location (Right or Left end)
7B051U050L021 . 5	1063+06	37′-6′′	469.60′	**	20'-0''	**	10'-0''	300 SFT	(FACING) RIGHT

TOTAL BILL OF MATERIAL

ITEM	UNIT	TOTAL
OVERHEAD SIGN STRUCTURE BUTTERFLY TYPE III-F-A	Foot	37′-6′′
OVERHEAD SIGN STRUCTURE WALKWAY, TYPE A	Foot	6′-0′′
DRILLED SHAFT CONCRETE FOUNDATIONS	Cu. Yds.	9.3

MAXIMUM TOTAL TRUSS TYPE DMS SIGN CABINET AREA 300 Sq. Ft.

Mamimum DMS weight = 5000 LB.



DESIGN WIND LOADING DIAGRAM

Parameters shown are basis for I.D.O.T. Standards Installations not within dimensional limits shown require special analysis for all components.

Trusses shall be shipped individually with adequate provision to prevent detrimental motion during transport. This may require ropes between horizontals and diagonals or energy dissipating (elastic) ties to the vehicle. The contractor is responsible for maintaining the configuration and protection of the trusses.

- After adjustments to level truss and insure adequate vertical clearance, all top and bottom leveling nuts shall be tightened against the base plate with a minimum torque of 200 lb.-ft. Stainless steel mesh shall then be placed around the perimeter of the base plate. Secure to base plate with stainless steel banding.
- Centerline cabinet must be located at centerline of column.
- If M270 Gr. 50W (M222) steel is proposed, chemistry for plate to be used shall first be approved by the Engineer as suitable for galvanizing and welding.

SCALE:

GENERAL NOTES

DESIGN: AASHTO Standard Specifications for Structural Supports for Highway Signs, Luminaires and Traffic Signals, ("AASHTO Specifications")

CONSTRUCTION: Current (at time of letting) Illinois Department of Transportation Standard Specifications for Road and Bridge Construction, Supplemental Specifications and Special Provisions. ("Standard Specifications")

LOADING: 90 M.P.H. WIND VELOCITY

WIND LOADING: 30 p.s.f. normal to DMS Cabinet Area and truss elements not behind sign Loading Diagram.

WALKWAY LOADING: Dead load plus 500 lbs. concentrated live load.

DESIGN STRESSES FIELD UNITS f'c = 3,500 p.s.i. fy = 60,000 p.s.i. (reinforcement)

WELDING: All welds to be continuous unless otherwise shown. All welding to be done in accordance with current AWS D1.1 and D1.2 Structural Welding Codes (Steel and Aluminum) and the Standard Specifications.

MATERIALS: Aluminum Alloys as shown throughout plans. All Structural Steel Pipe shall be ASTM A53 Grade B or A500 Grade B or C. If A500 pipe is substituted for A53, then the outside diameter shall be as detailed and wall thickness greater than or equal to A53. All Structural Steel Plates and Shapes shall conform to AASHTO M270 Gr. 36, Gr. 50 or Gr. 50W* (M183, M223 Gr. 50, or M222). Stainless steel for shims, sleeves and handhole covers shall be ASTM A240, Type 302 or 304, or another alloy suitable for exterior exposure and acceptable to the Engineer,

The steel pipe and stiffening ribs at the base plate for the column shall have a minimum longitudinal Charpy V-Notch (CVN) energy of 15 lb.-ft. at 40° F. (Zone 2) before galvanizing.

FASTENERS FOR ALUMINUM TRUSSES: All bolts noted as "high strength" must satisfy the requirements of AASHTO M164 (ASTM A325), or approved alternate, and must have matching lock nuts. Threaded studs for splices (if Members interfere) must satisfy the requirements of ASTM A449, ASTM A193, Grade B7, or approved alternate, and must have matching lock nuts. Bolts and lock nuts not required to be high strength must satisfy the requirements of ASTM A307. All bolts and lock nuts must be hot dip galvanized per AASHTO M232. The lock nuts must have nylon or steel inserts. A stainless steel flat washer conforming to ASTM A240 Type 302 or 304, is required under both head and nut or under both nuts where threaded studs are used. High strength bolt installation shall conform to Article 505.04 (f) (2)d of the IDOT Standard Specifications for Road and Bridge Construction. Rotational capacity ("ROCAP") testing of bolts will not be required.

U-BOLTS AND EYEBOLTS: U-Bolts and Eyebolts must be produced from ASTM A276 Type 304, 304L, 316 or 316L. Condition A, cold finished stainless steel, or an equivalent material acceptable to the Engineer. All nuts for U-Bolts and Eyebolts must be lock nuts equivalent to ASTM A307 with nylon or steel inserts and hot dip galvanized per AASHTO M232. A stainless steel flat washer conforming to ASTM A240, Type 302 or 304, is required under each U-Bolt and Eyebolt lock nut.

GALVANIZING: All Steel Grating, Plates, Shapes and Pipe shall be Hot Dip Galvanized after fabrication in accordance with AASHTO M111. Painting is not permitted.

ANCHOR RODS: Shall conform to ASTM F1554 Gr. 105.

CONCRETE SURFACES: All concrete surfaces above an elevation 6" below the lowest final ground line at each foundation shall be cleaned and coated with Bridge Seat Sealer in accordance with the Standard Specifications.

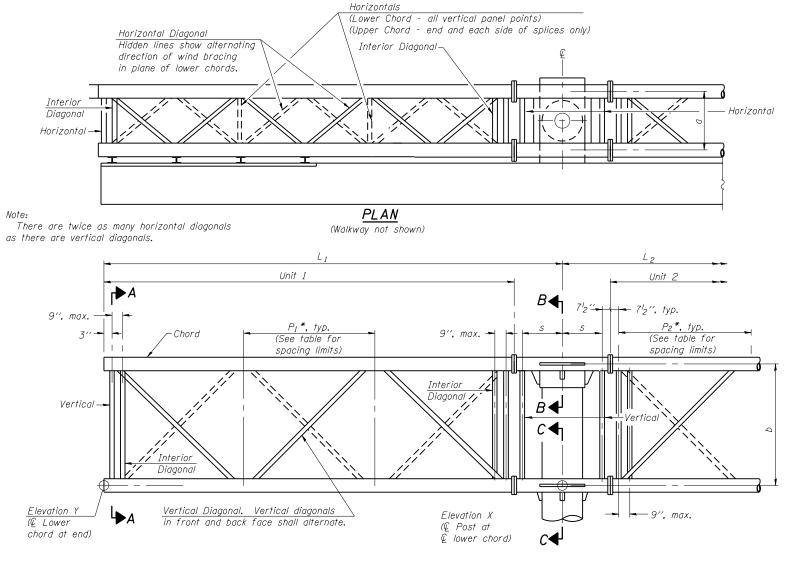
REINFORCEMENT BARS: Reinforcement Bars designated (E) shall be epoxy coated in accordance with the Standard Specifications.

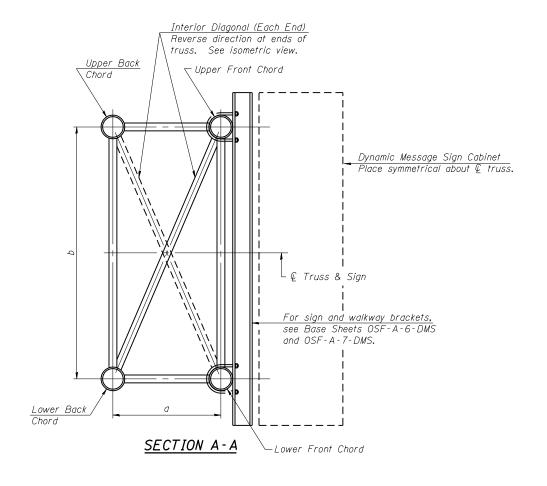
OSF-A-1-DMS

6-1-12

FILE NAME =	USER NAME = steffenmk	DESIGNED -	REVISED -
c:\pw_work\pwidot\steffenmk\d0360593\D7	74643-sht-detail.dgn	DRAWN -	REVISED -
	PLOT SCALE = 100.0000 '/ in.	CHECKED -	REVISED -
Default	PLOT DATE = 5/22/2014	DATE -	REVISED -

BUTTERFLY	BUTTERFLY SIGN STRUCTURES – ALTERNATE PLAN & ELEVATION FOR DMS – ALUMINUM TRUSS & STEEL POST						SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FC							D7 ITS 2014	•	72	49
							GHAM, CUMBERLAND	CONTRACT	NO. 7	74643
CALE: SHEET OF SHEETS STA. TO STA.				CLARK	& LAWRENCE THE INDIS FED. AT	D PROJECT				





ELEVATION

(Sign and walkway omitted for clarity)

TYPICAL TRUSS UNIT

For Section B-B and Section C-C, see Base Sheet OSF-A-3-DMS

TRUSS UNIT TABLE

Truss Type	Dimension ''a''	Dimension ''b''	Dimension ''s''	Limits for Panel Spacing (P)*	Ch	Up. & Low. Chord O.D. Wall Verticals; Horiz Horizontals; and I		
III-F-A	36′′	84''	21′′	48" min. to 66" max.	7''	38′′	3'2''	³ 8′′

*P = $\frac{L - s - 1' - 6''}{\# Panels}$

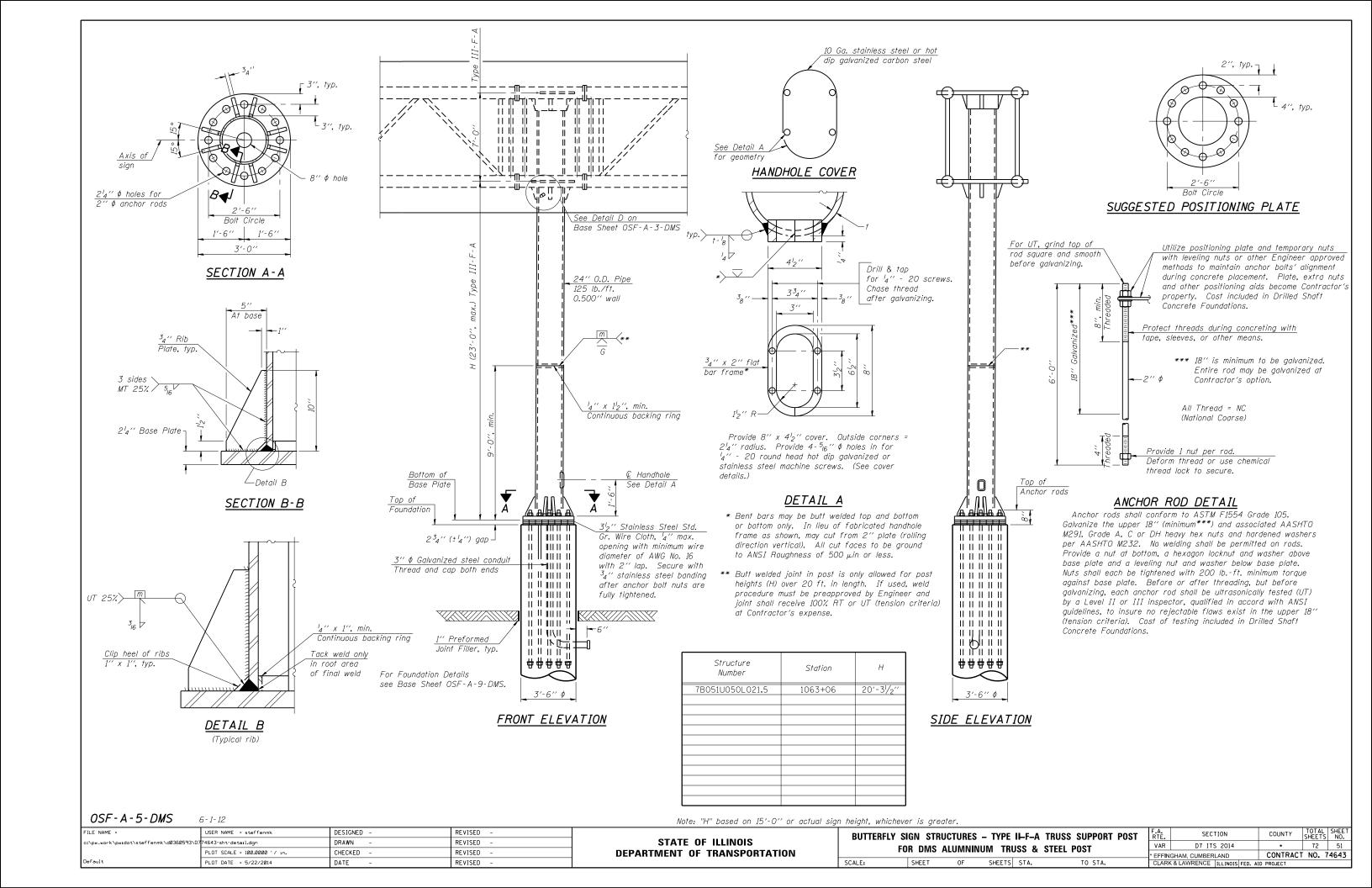
Structure Number	Station	Truss Type	L _I	L ₂	Number of Panels Unit 1	Panel Length $(P_1)^*$	Number of Panels Unit 2	Panel Length (P ₂)*
7B051U050L021.5	1063+06	III-F-A	15′-6′′	22'-0''	3	49′′	4	56′′

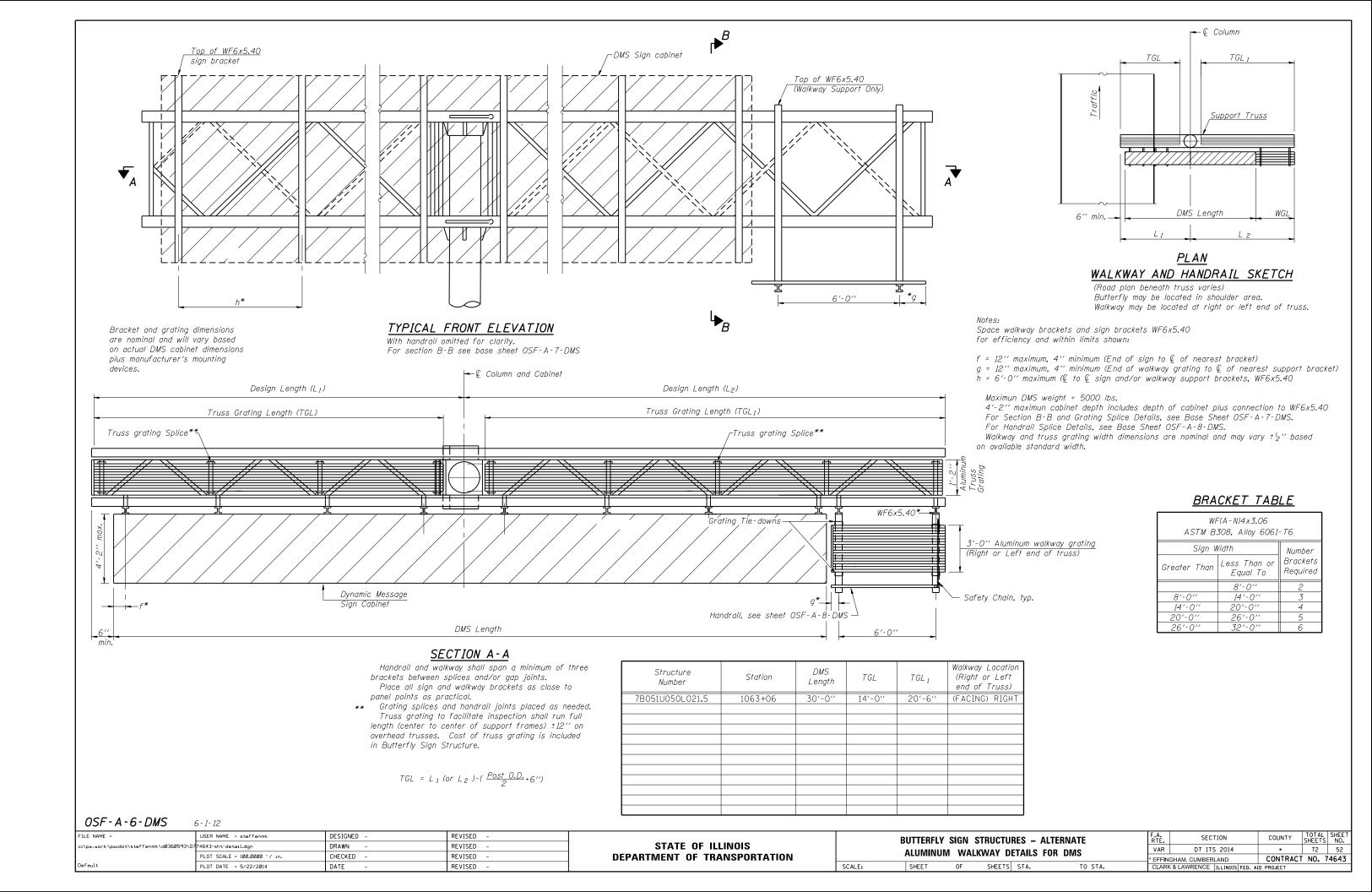
OSF-A-2-DMS

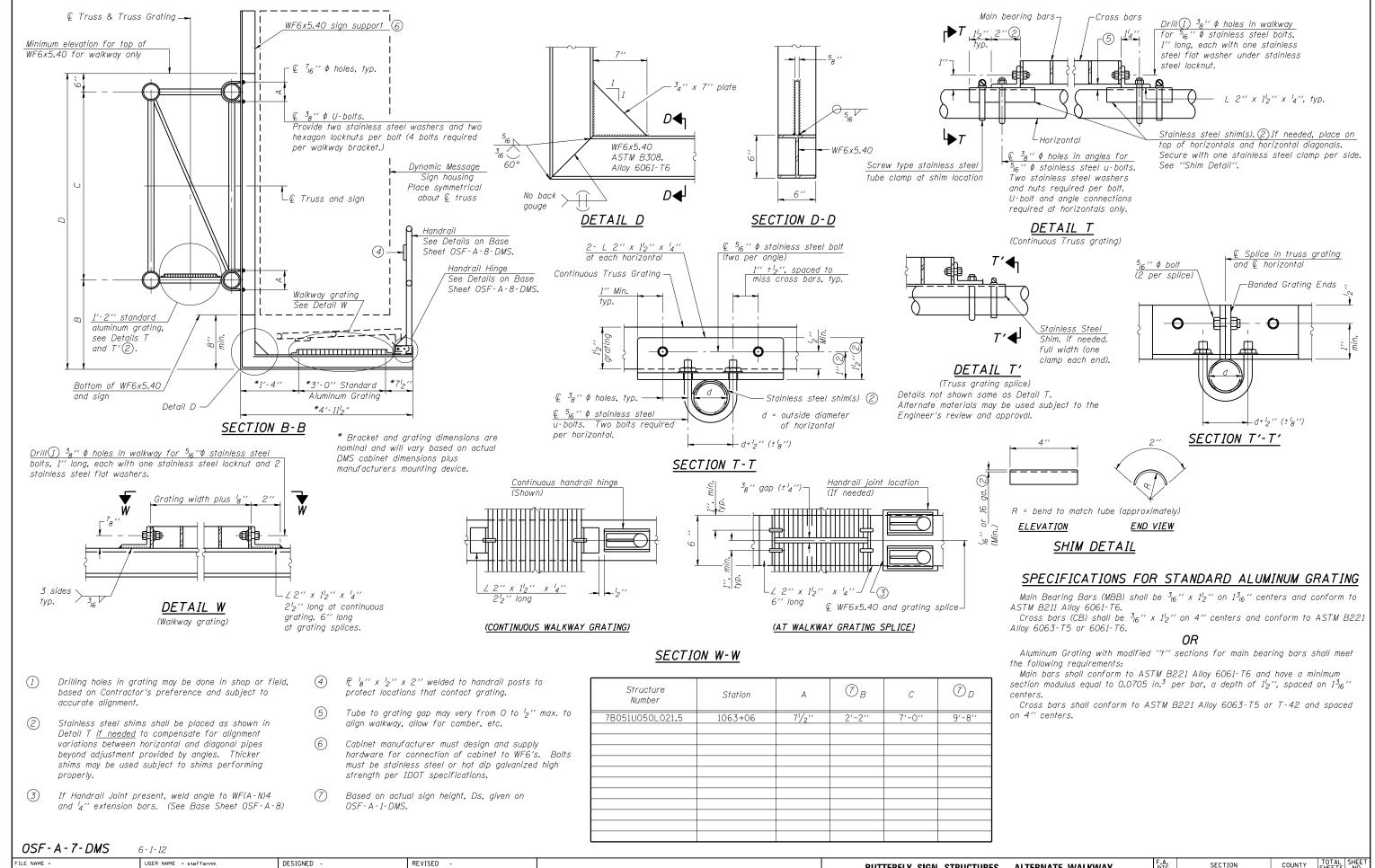
5	_	1-	12
_		4	1

c:\pw_work\pwidot\steffenmk\d0360593\D7	PLOT SCALE = 100,0000 ' / in.	DRAWN - CHECKED -	REVISED -
Default		***************************************	
Derault	PLOT DATE = 5/22/2014	DATE -	REVISED -

BUTTERFLY SIG	N STRU	CTURES	– ALTERI	IATE TR	USS DETAILS FOR DMS	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	ALLIN	MUNIN	TRUSS &	CTEFI	PUCT	VAR	D7 ITS 2014	•	72	50
	ALUN	IIIIVOIVI			1 031	* EFFIN	GHAM, CUMBERLAND	CONTRAC	NO.	74643
SCALE:	SHEET	OF	SHEETS	STA.	TO STA.	CLARK	& LAWRENCE ILLINOIS FED.	AID PROJECT		







STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BUTTERFLY SIGN STRUCTURES - ALTERNATE WALKWAY

DETAILS FOR DMS - ALUMINUM TRUSS & STEEL POST

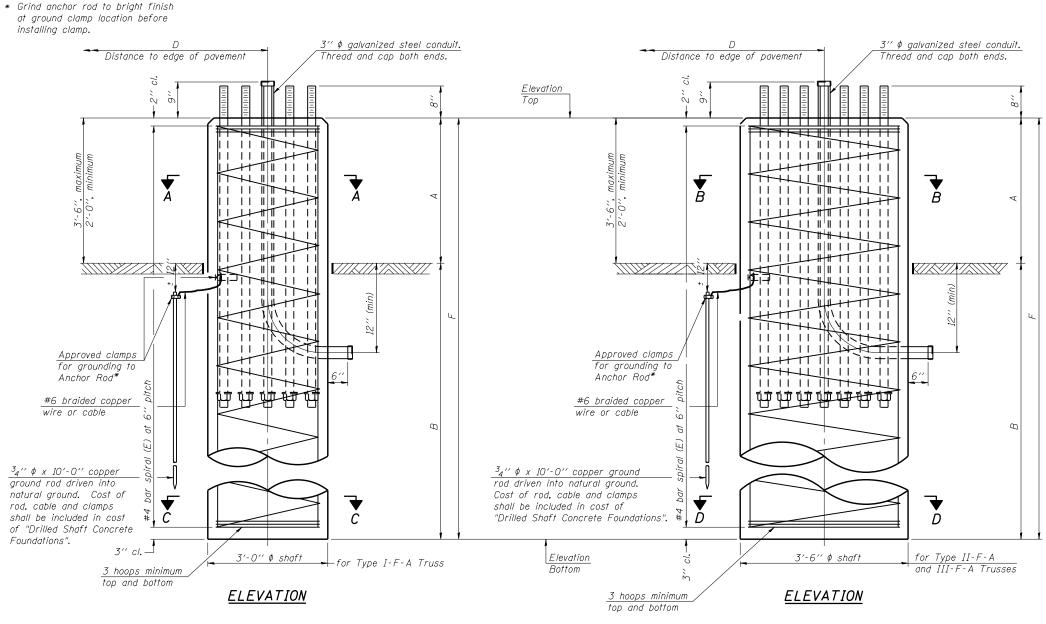
SCALE: SHEET OF SHEETS STA. TO STA.

RTE. SECTION COUNTY SHEETS NO.

VAR D7 ITS 2014 • 72 53

*EFFINGHAM, CUMBERLAND CONTRACT NO. 74643

CLARK & LAWRENCE | ILLINOIS| FED. AID PROJECT



FOUNDATION DESIGN TABLE Maximum Maximum Shaft "B" Anchor Rod Post Base Truss Total Sign Area CantileverLenath Depth Diameter Diameter Circle Diameter Туре Sheet No. (sq ft) (ft)(ft) (in) (in) (in) 22 I-F-A 0SF - A - 4 25 200 36" 30 400 400 22'-0" 12 II-F-A OSF-A-5 30 42" II-F-A OSF-A-5 30 24'-0' *35* 42"

	3" cl.~		‡4 bar spiral	(E)
10-#9 v(E) bars equally spaced			Anchor F Circle Did	nod ameter
	<u>SECTIO</u> 3'-0"	ON A - A	and positioni Truss Suppo	of anchor rods Ing templates see
12-#8 v(E) bars equally spaced			Anct	nor Rod e Diameter
3″ c 3″ cl. ¬		ON B-B	and p see T	etails of anchor rods ositioning templates russ Support Post Sheets OSF-A-4 and A-5.
		10-#9 v(E) bo equally spaced -#4 bar spira	1	
<u>SECTI</u>	ON C-C		#4 &	ar spiral (E) -
	3" cl.	SECTION I	<u>D-D</u>	12-#8 v(E) bars equally spaced

3'-6'' Ø shaft

The foundation dimensions shown in the Foundation Design Table are based on the presence of mostly cohesive soils with an average Unconfined Compressive Strength (Qu) of at least 1.25 tsf, which must be determined by previous soil investigations at the jobsite. When other conditions are indicated, the boring data will be included in the plans and the foundation dimensions shown in the Foundation Data Table will be the result of site specific designs.

If the conditions encountered are different than those indicated, the Contractor shall notify the Engineer to determine if the foundation dimensions need to be modified. If dimensions "B" or "F" are revised by more than 12" by the Contractor, "as-built" plans shall be prepared and submitted to the District Bureau of Operations for future reference,

No sonotubes or decomposable forms shall be used below the lower conduit entrance. Permanent metal forms or other shielding may not be left in place below that elevation without the Engineer's written permission.

Concrete shall be placed monolithically, without construction joints.

Backfill shall be placed per Article 502 of Standard Specification and prior to erection of support column.

A normal surface finish followed by a Concrete Sealer application will be required on concrete surfaces above the lowest elevation 6" below finished ground line. Cost included in "Drilled Shaft Concrete Foundation".

FOUNDATION DATA TABLE											
Structure Number	Station	Truss Type	Shaft Diameter	Elevation Top	Elevation Bottom	А	В	F	Class DS Concrete Cubic Yards		
7B051U050L021.5	1063+06	III-F-A	42''	471.00′	445.00′	2'-0''	24'-0''	26'-0''	9.3		

SCALE:

OSF-A-9

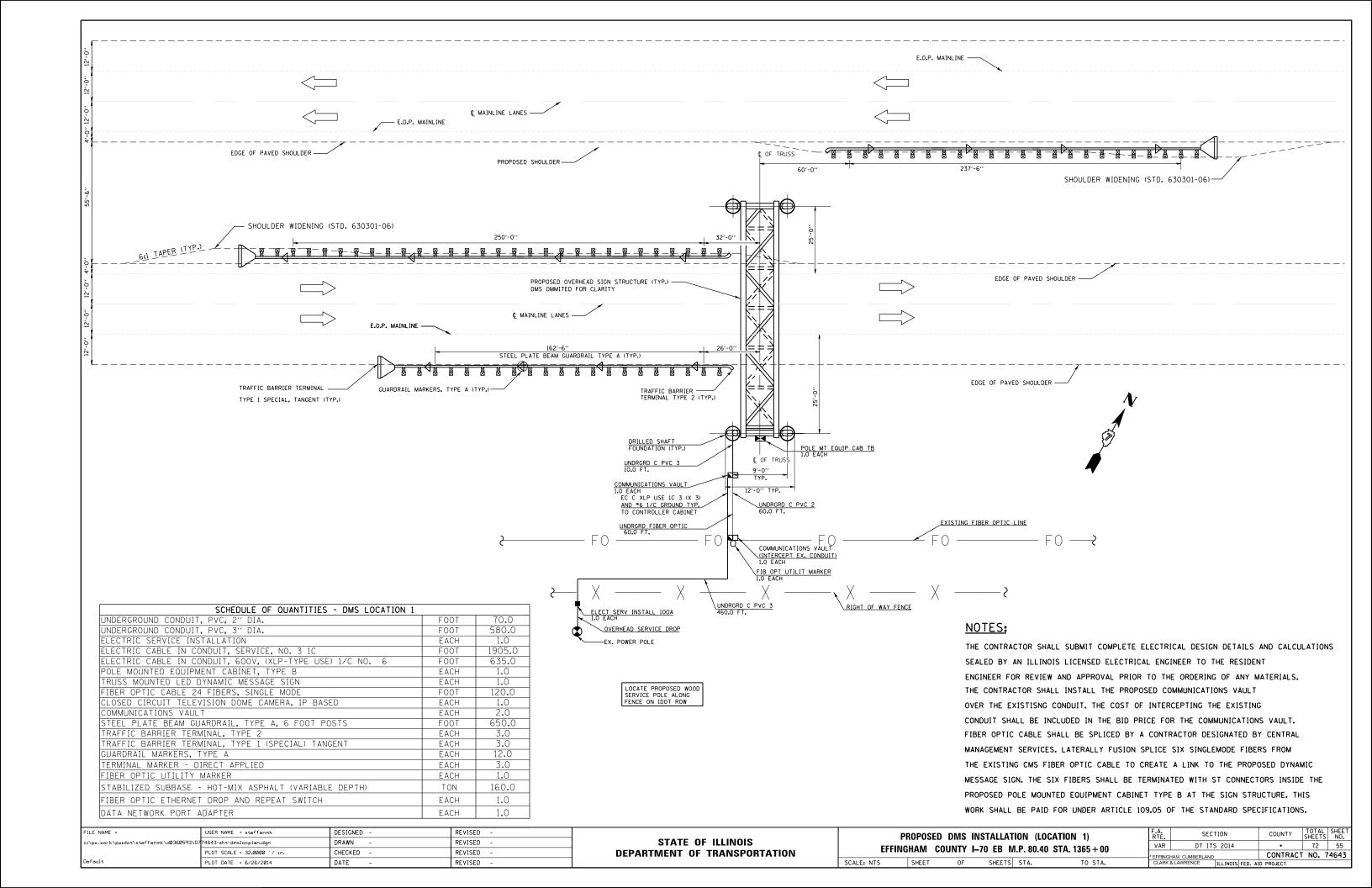
8-21-13

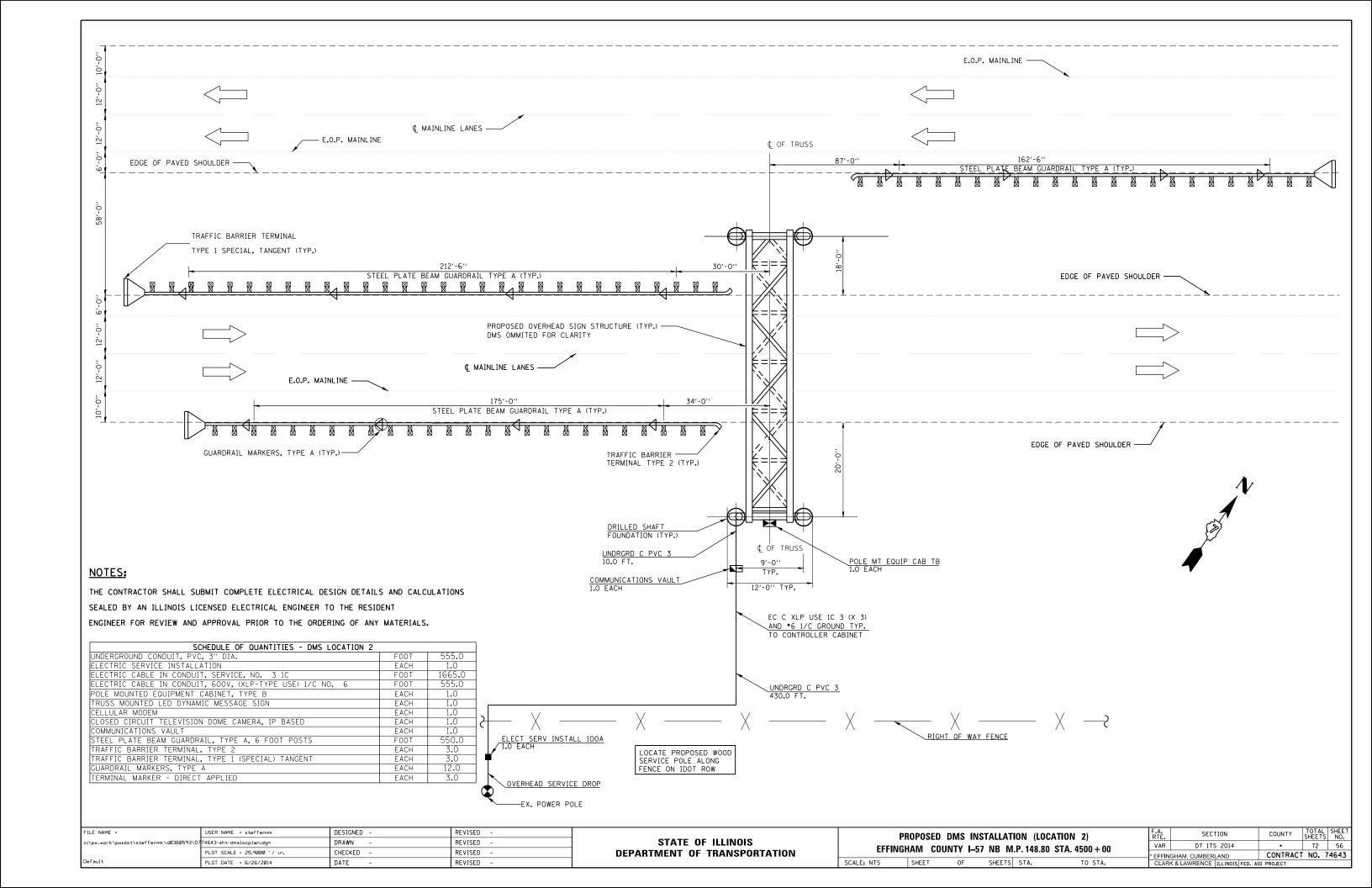
FILE NAME =	USER NAME = steffenmk	DESIGNED -	REVISED -
c:\pw_work\pwidot\steffenmk\d0360593\D7	74643-sht-detail.dgn	DRAWN -	REVISED -
	PLOT SCALE = 100.0000 '/ in.	CHECKED -	REVISED -
Default	PLOT DATE = 6/19/2014	DATE -	REVISED -

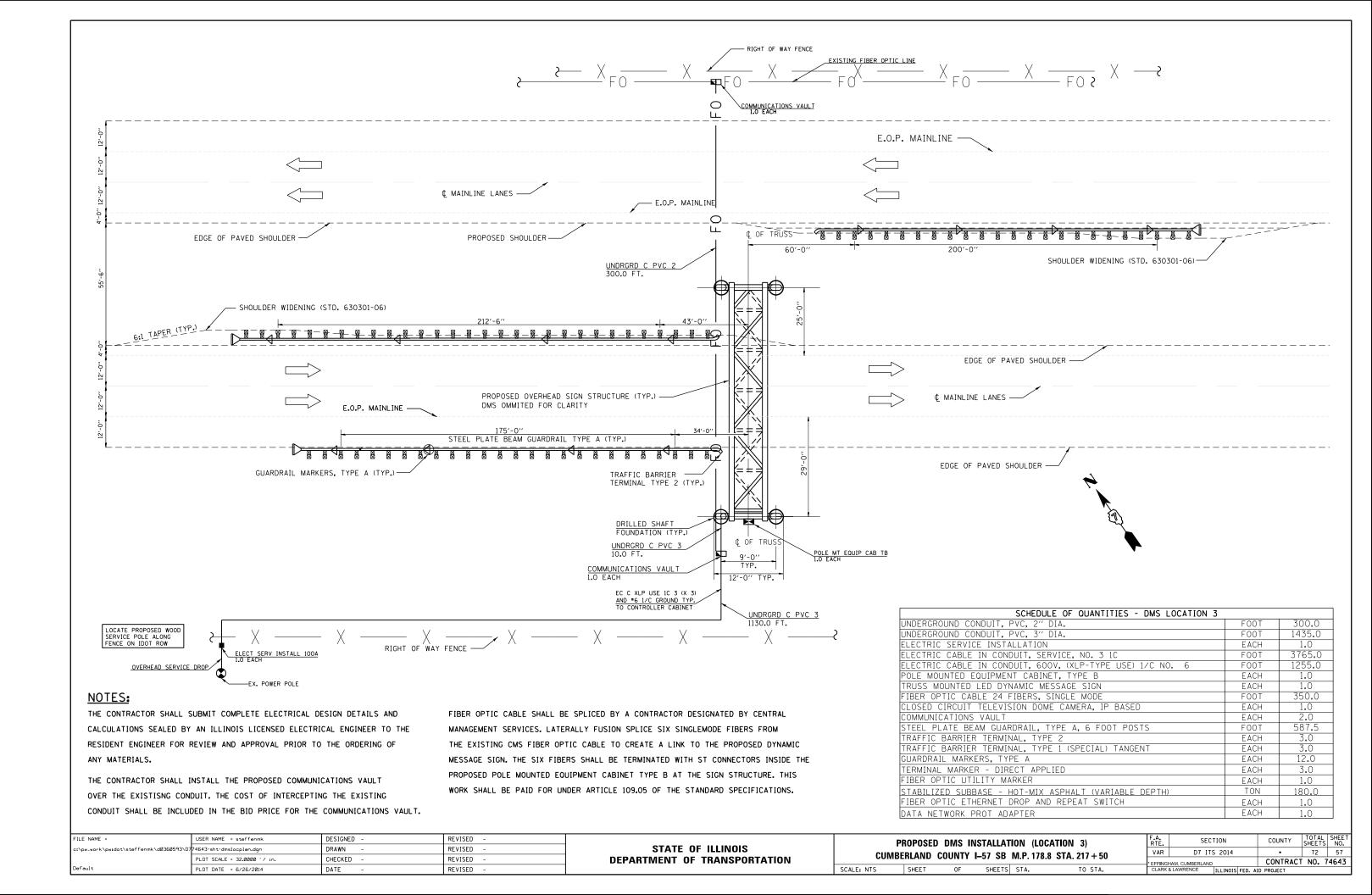
STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

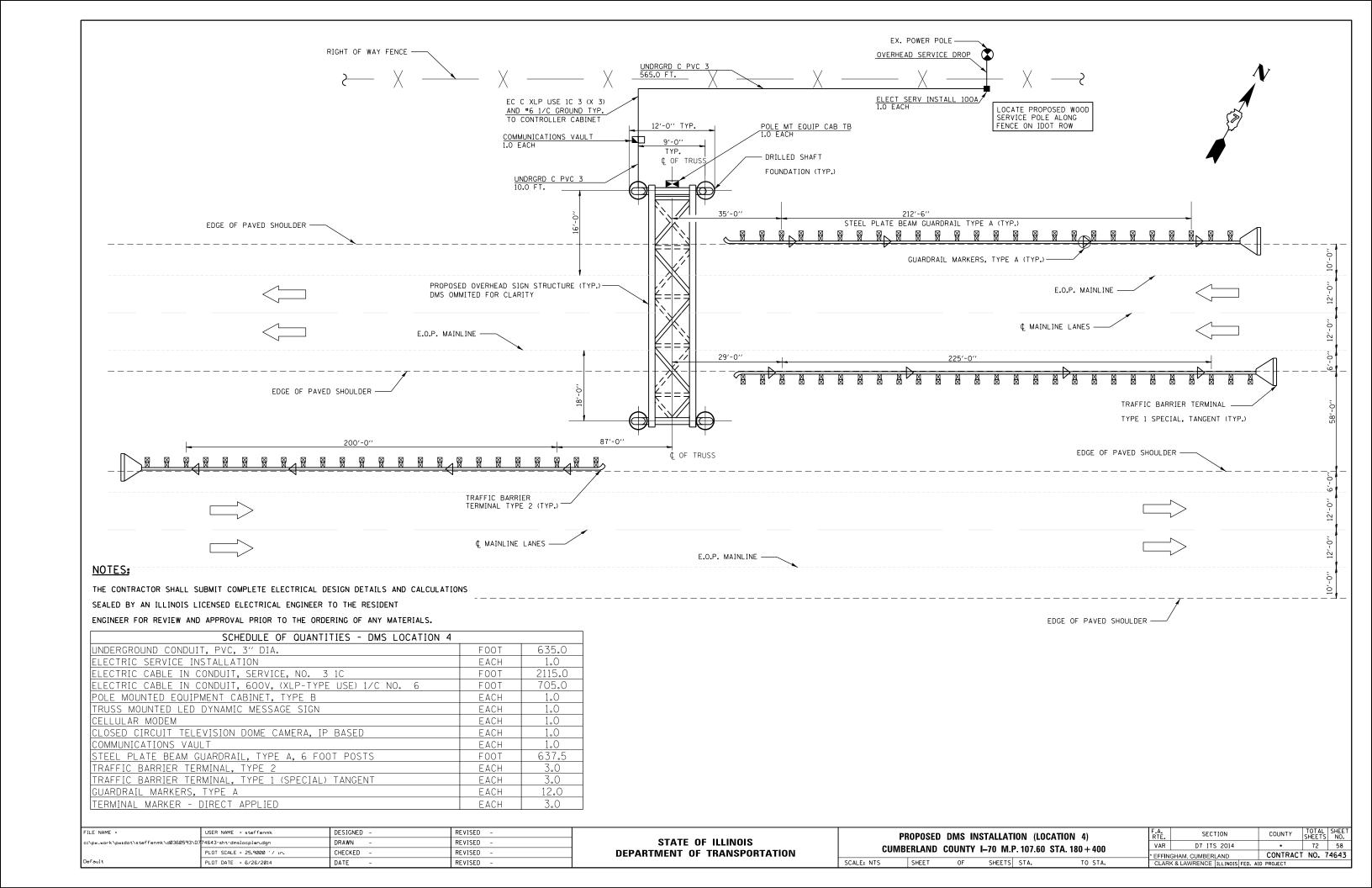
BUT	TERFLY SIG	GN S	TRUCTURE	LED SHAFT	F.A. RTE.	SEC.	ΓΙΟΝ		COUN	
	ALLIMIN	11117	TRUSS &	VAR	D7 ITS	2014				
	ALUMIN	UOIVI	111033 &		* EFFIN	GHAM, CUMBER	LAND		CONT	
	SHEET	OF	SHEETS	STA.	TO STA.	CLARK	& LAWRENCE	ILLINOIS	FED. A	ID PROJECT

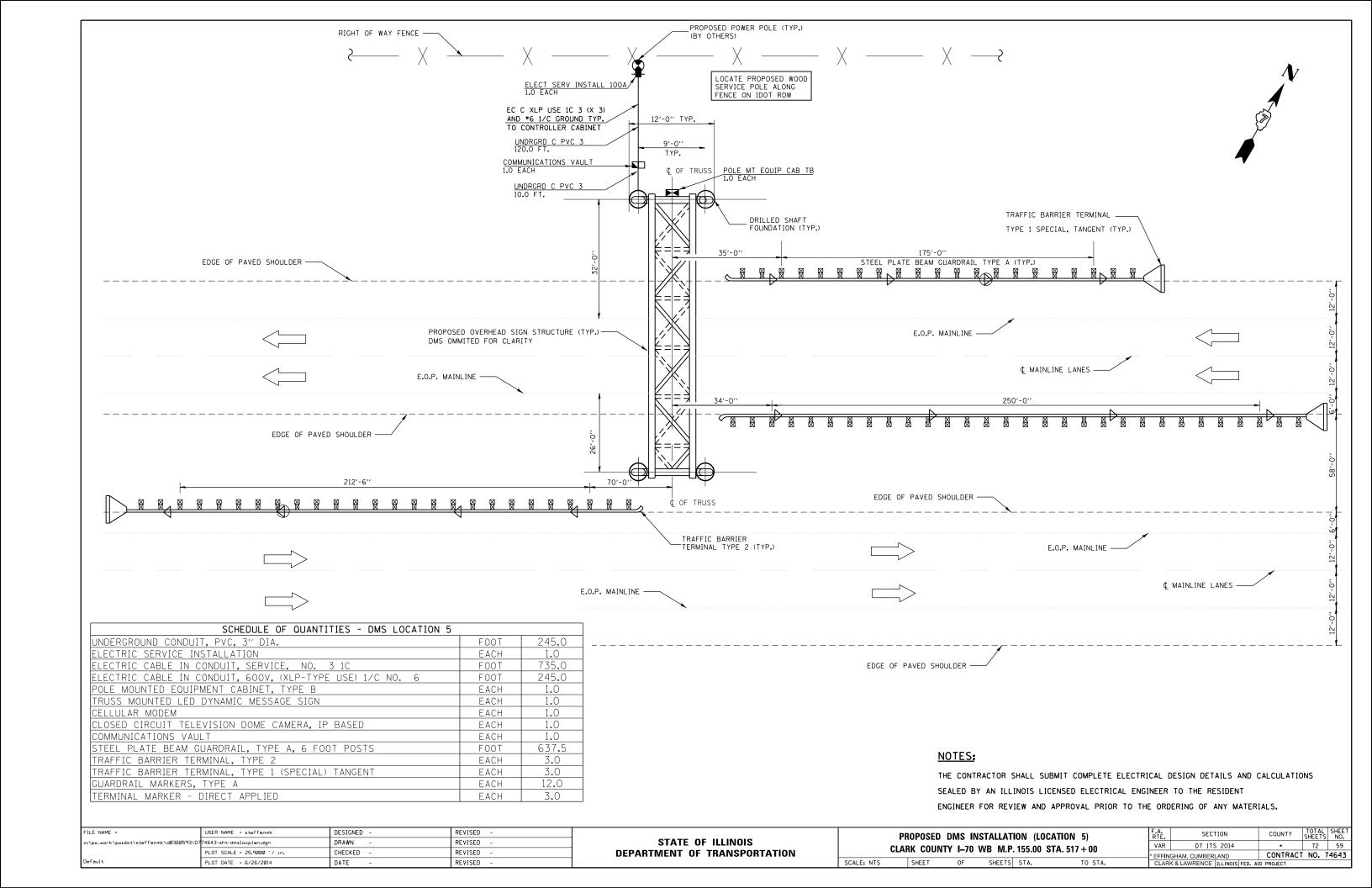
TOTAL SHEET NO. TRACT NO. 74643

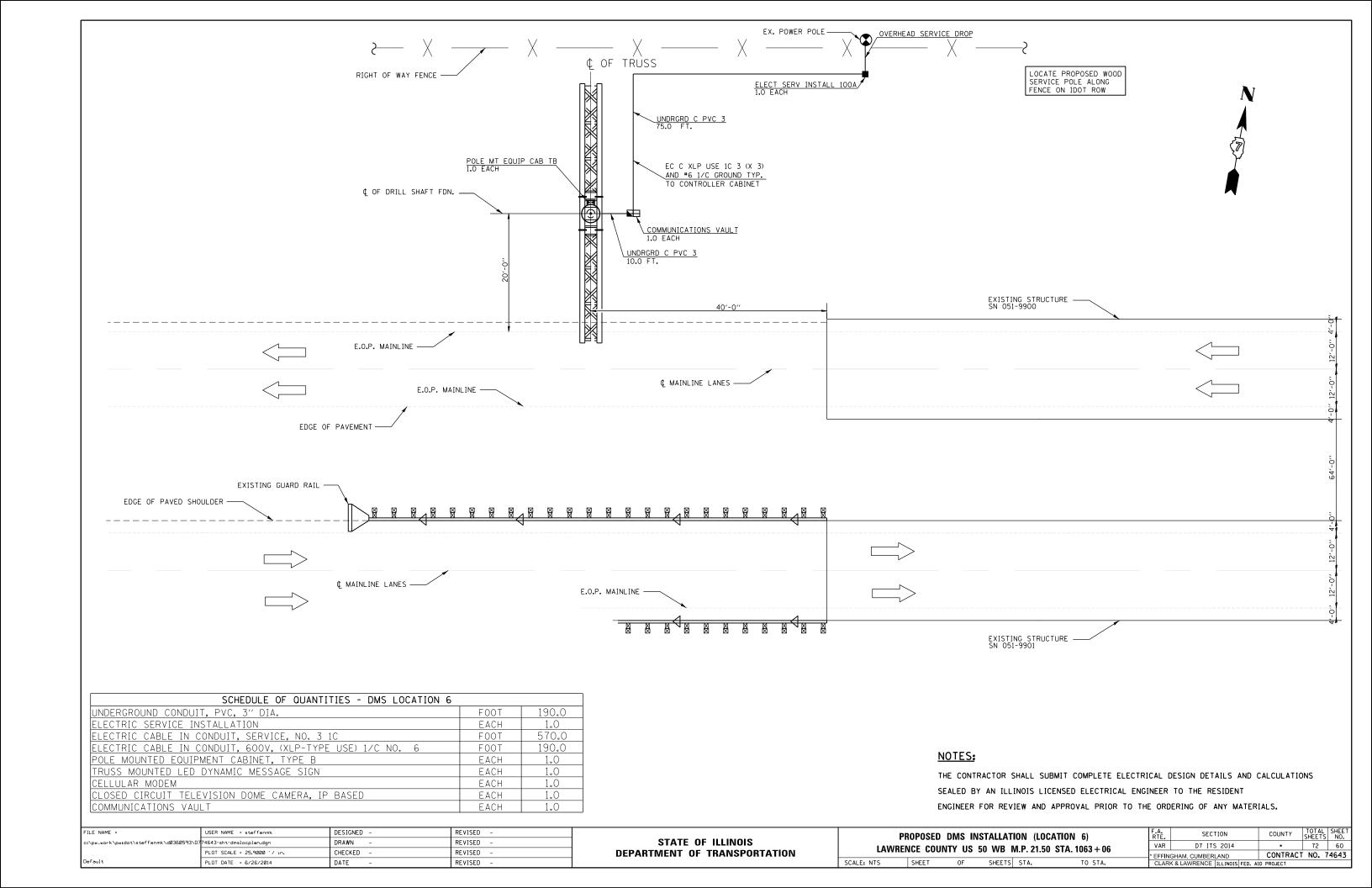












File Name S.\NEW GEOTECHNICAL\GINTDATA\PROJECTS\EFFINGHAM CO (025)\025-0000 (75025)070R80.< Lafflade W 86 deg 47 min 03.871 sec Longflude N 39 deg 01 min 59.270 sec Datum Job Number SOIL BORING LOG

Page <u>1</u> of <u>1</u>

Date <u>3/11/14</u>

ROUTE FAI 70 (I-70) DESCRIPT	ION _		Messa	ge Boo	ırd Sign Truss — 1—70 EB	LOGGED	BY	<u>E.</u>	<u>Sandsc</u>	hafer
SECTIOND7_ITS_2014	_ LOCATIO	Ν _	SW, SE	C. 20,	TWP. 7N, RNG. 4E, 3 PM					
COUNTY <u>Effingham</u> DRIL	LING METH	OD	<u>Hol</u>	low ste	em auger & split spoon HAMMER T	YPE		Auto	140#	
STRUCT. NO. 7S025I070R80.4 Station 1365+02 BORING NO. 1 South Station 1365+02 Offset 58.0ft Rt	D E P T H	B L O W S	U C S Qu	M 0 1 S T	Stream Bed Elev. N/A Groundwater Elev.:	ft ft ft	D E P T H	B L O W S	O C S Qu	M 0 1 S T
Ground Surface Elev. <u>621.00</u>	ft (ft	/6"	(tsf)	(%)	▼After <u>72</u> Hrs. <u>616.7</u>		(ft)	/6"	(tsf)	(%)
0.11/	620.20 619.70	-			Hard, damp, brown, CLAY LOAM TILL. (continued)	599.00		17 23	6.55 S	8
		3 4 4	1.48 B	25	Very dense, damp, gray, fine grained, SAND. 9% passing #200 sieve.			22 38 49		13
Ţ	<u>-</u> -	5 4 6	1.65	25	8% passing #200 sieve.		-25	31 38		11
	 	6	В		Gray, CLAY LOAM TILL. Pocket Penetrometer +4.5 tsf. Extent of exploration.	595.40 595.00		42		
Medium, damp, brown mottled gray, CLAY w/ Silt.	_	3 3 3	0.82 B	20	Location: I-70 EB		_			
Medium, damp, brown, LOAM.	611.50	2	0.82	24	MP 80.4 1.5 miles West of Altamont		-30			
Medium, damp, brown marbled	609.00	2	В							
gray, CLAY.		3 3	0.91 B	20						
Very soft, very damp, brown, SILTY LOAM.	606.50	2 0 5	0.12 B	23						
TILL.		8	4.00	42						
		15 22	4.80 S	10						
		0 10								

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer, E-Estimated)
Abbreviations W.O.H — Sampler Advanced By Weight of Hammer, W.O.P — Advanced by Weight of Pipe, B.S. — Before Seating
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206) BBS, from 137 (Rev. 8-99)

Illinois Department of Transportation

SOIL BORING LOG

Page $\underline{1}$ of $\underline{1}$

Date <u>3/11/14</u>

ROUTE <u>FAI 70 (I-70)</u> DESCRII	PTION		Messa	ge Boa	<u>rd Sign Truss - I-70 EB</u>	LOGGED BY	<u>E. '</u>	<u>Sandscl</u>	<u>nafer</u>
SECTION D7 ITS 2014	LOCATION	_ 5	SW, SE		TWP. 7N, RNG. 4E, 3 PM				
COUNTY <u>Effingham</u> DR	RILLING METHOD		<u>Holl</u>	low ste	m auger & split spoon HAMME	R TYPE	Auto	140#	
STRUCT. NO. 7S025I070R80.4 Station 1365+02	E P	B L O	U C S	M 0 1	Surface Water Elev	N/A ft E	B L O	U C S	M 0 1
BORING NO. 2 North Station 1365+02 Offset 25.0ft Rt Ground Surface Elev. 621.05	H	W S /6"	Qu (tsf)	S T (%)		Dry ft H Dry ft (ft)	W S /6"	Qu (tsf)	S T (%)
9.5" asphalt shoulder.	620.15				Hard, very moist, gray, CLAY LOAM TILL. (continued)		25 29	6.76 S	8
Soil/aggregate mixture. Very stiff to medium, damp, brown mottled gray, CLAY.	619.75	3			,	_	12		
	+	4 5	2.47 B	22			17	8.04 B	8
		4	2.89	27			13	7.42	8
		7	В		Extent of exploration.	595.05	23	В	
		3			Existing of exploration.	_	-		
		3 4	1.65 B	29	Location:	_	-		
	-10	2			I-70 EB MP 80.4 1.5 miles West of Altamont	-30] - -		
		3 5	0.87 B	23					
Medium, damp, gray mottled	609.05	2					<u>-</u> -		
brown, SILTY CLAY.		3 5	0.66 B	18			_		
Soft, very damp, brown, SANDY LOAM.	606.55	1	0.33	20			<u>.</u>		
		3	В				1 - -		
Hard, damp, gray, SANDY CLAY LOAM TILL.	+	18 20 26	7.86 S	8		_	- - -		
	601.55		3				<u>-</u> -		
	-20	18				-40	ا		

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer, E-Estimated)
Abbreviations W.O.H — Sampler Advanced By Weight of Hammer, W.O.P — Advanced by Weight of Pipe, B.S. — Before Seating
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206) BBS, from 137 (Rev. 8—99)

FILE NAME =	USER NAME = steffenmk	DESIGNED -	REVISED -			RC	DRING I	OG – LOCATION 1		F.A.	SECTION	COUNTY TOTAL	L SHEET		
c:\pw_work\pwidot\steffenmk\d0360593\D7	74643-sht-Boring.dgn	DRAWN -	REVISED -	STATE OF ILLINOIS	I-70 EB M.P. 80.40 STA. 1365 + 00					•	D7 ITS 2014	VARIOUS 72	61		
	PLOT SCALE = 100.0000 '/ in.	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION		1-70 LD W.F. 80.40 STA. 1303 T 00						CONTRACT NO.	74643		
Default	PLOT DATE = 5/22/2014	DATE -	REVISED -		SCALE:	SHEET	OF	SHEETS STA.	TO STA.		ILLINOIS FEE	. AID PROJECT			
										VARIOUS					

File Name S.\NEW GEOTECHNICAL\GINTDATA\PROJECTS\EFFINGHAM CO (025)\025-0000 (75025I070R80.4 Lafitude W 88 deg 47 min 04.997 sec Langitude N 39 deg 01 min 58.174 sec Darum Job Number

FILE NAME =

USER NAME = steffenmk DESIGNED -REVISED 74643-sht-Boring.dgn DRAWN -REVISED CHECKED -REVISED PLOT DATE = 5/22/2014 DATE REVISED

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

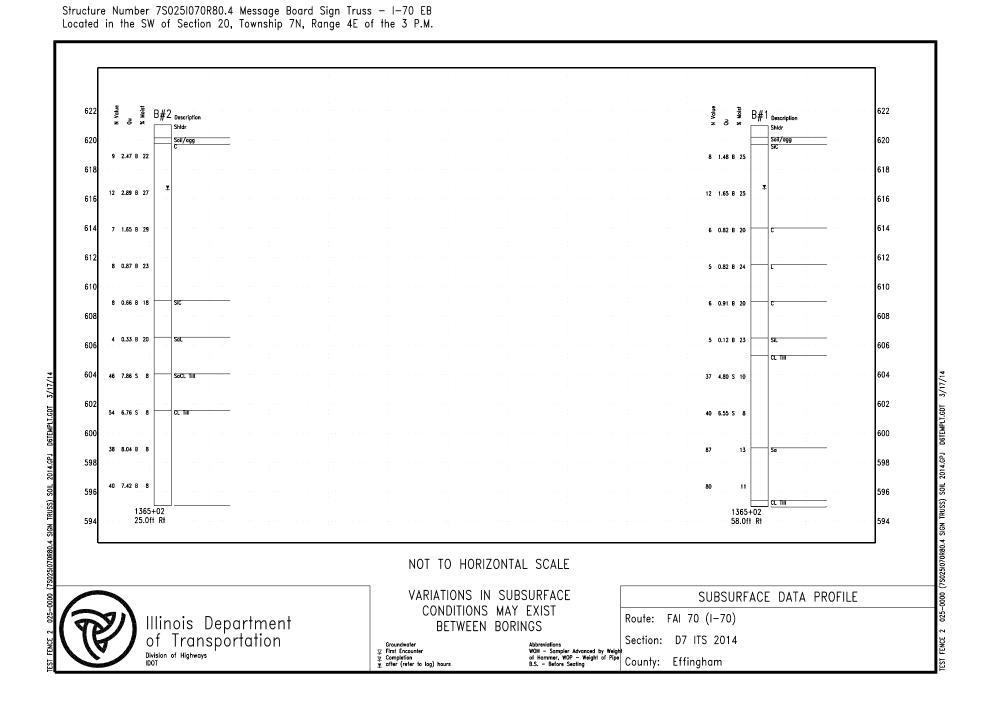
BORING LOG - LOCATION 1 I-70 EB M.P. 80.40 STA. 1365 + 00 OF SHEETS STA.

SCALE:

COUNTY TOTAL SHEET NO.

VARIOUS 72 62

CONTRACT NO. 74643 SECTION D7 ITS 2014



File Name S.\NEW GEOTECHNICAL\GINTDATA\PROJECTS\EFFINGHAM CO (025)\025-0000 SOIL 2013 0H S Lafflade W 88 deg 37 min 16.130 sec Longflude N 38 deg 58 min 29.184 sec Datum Job Number SOIL BORING LOG

Page <u>1</u> of <u>1</u>

Date <u>11/4/13</u>

ROUTE <u>FAI 57 (I-57)</u> DESCRIPT	TION	Ove	rhead Sign Truss	LOGGED BY	E. Sar	ndschafer
SECTION D7 ITS 2014	_ LOCATION _	SE, SEC. 10,	TWP. 6 N, RNG. 5 E, 3 PM			
COUNTY <u>Effingham</u> DRII	LLING METHOD	Hollow ste	em auger & split spoon HAMMER	TYPE	Auto 14	40#
STRUCT. NO. 7S025I057R148.4 Station 1 (Median) Station 4500+00 Offset 10.0ft Rt Ground Surface Elev. 95.43	D B E L P O T W H S - (ff) /6"	U M C O S I S U T (tsf) (%)	Stream Bed Elev. N/ Groundwater Elev.: □ First Encounter Dr □ Upon Completion 85.	A ff B B B B B B B B B B B B B B B B B B	L 0 W S	U M C O S I S S T T T T T T T T T T T T T T T T
3" topsoil. Very stiff, damp, brown, CLAY LOAM.	95.13		I-57 NB Mile Marker 148.4			
J	90.93	2.68 20 B				
Medium, damp, brown marbled gray, SILTY CLAY.		0.78 19 B				
Very stiff, damp, brown/gray/black, CLAY LOAM.	88.43 3 4 5	2.47 19 B				
Stiff, damp, brown, SANDY CLAY. Brown, very sandy, CLAY SHALE, pokerchipped.	85.93 7 85.43 -10 7 31 42 83.43	1.81 22 B				
Very dense, moist, brown to gray, SANDSTONE. Samples pokerchipped.	8 	14				
	50/4 50/1 50/0	"				
Extent of exploration. Benchmark: Centerline of NB 1-57, Sta 4500+00, assumed elevation = 100.00'.	77.93 50/4 50/1 50/1	"				

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer, E-Estimated)
Abbreviations W.O.H - Sampler Advanced By Weight of Hammer, W.O.P - Advanced by Weight of Pipe, B.S. - Before Seating
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206) BBS, from 137 (Rev. 8-99)

Illinois Department of Transportation

SOIL BORING LOG

Page <u>1</u> of <u>1</u>

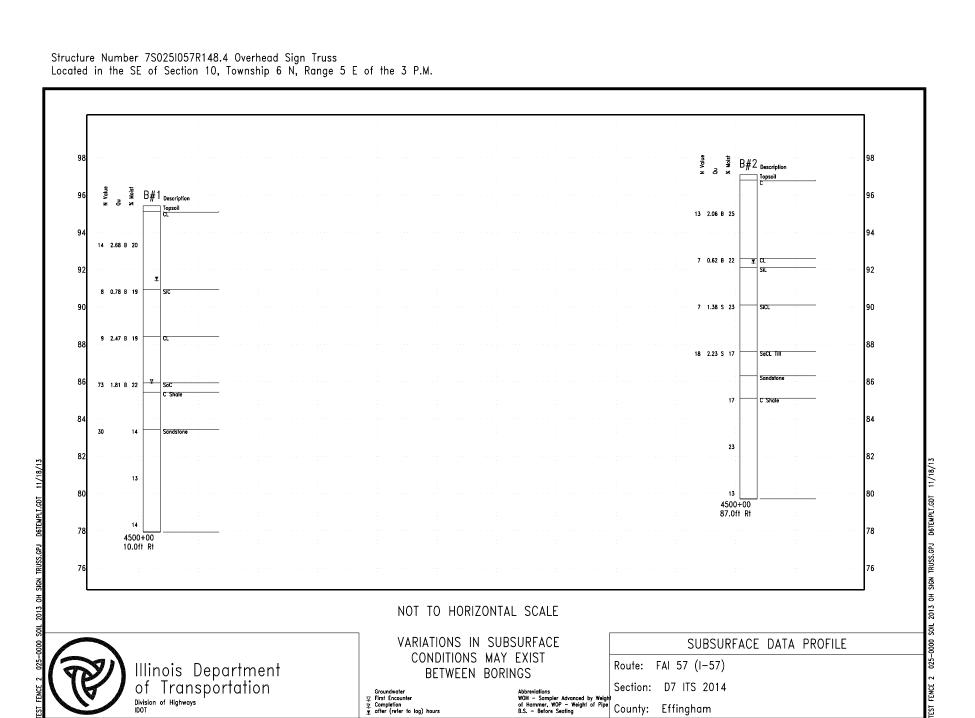
Date <u>11/4/13</u>

ROUTE <u>FAI 57 (I-57)</u> DESCRI	PTION			Ove	rhead Sign Truss	LOGGED	BY <u>E.</u>	Sandschafer
SECTIOND7_ITS_2014	LOCATION	ا	SE, SE	C. 10,	TWP. 6 N, RNG. 5 E, 3	PM		
COUNTY <u>Effingham</u> D	RILLING METHO	D	<u>Hol</u>	low ste	em auger & split spoon	_ HAMMER TYPE	Auto	140#
STRUCT. NO. <u>7S0251057R148.4</u> Station	E P	B L O	U C S	M 0 1	Surface Water Elev. Stream Bed Elev.	N/A ft N/A ft	D B E L P O	U M C O S I
BORING NO. 2 (E ShIdr) Station 4500+00 Offset 87.0ft Rt Ground Surface Elev. 97.11	T H (ft)	W S /6"	Qu (tsf)	S T (%)	Groundwater Elev.: ☑First Encounter ☑Upon Completion ☑After24 Hrs.	Dry ft Dry ft 92.4 ft	T W H S (ft) /6"	Qu S T (tsf) (%)
3" topsoil. Very stiff, damp, brown, CLAY.	96.81 				I-57 NB Mile Marker 1			
		4 5 8	2.06 B	25				
Medium, damp, gray marbled brown, CLAY LOAM.	92.61 92.11 -5	3 4	0.62	22				
Very soft, brown, SILTY LOAM. Stiff, damp, brown/gray/black,	90.11	3	В					
SILTY CLAY LOAM.		3 4	1.38 S	23				
Very stiff, damp, brown marbled gray, SANDY CLAY LOAM TILL. Brown, SANDSTONE.	87.61 -10 86.31	12 7 11	2.23 S	17				
Very dense, damp, brown to gray, very sandy, CLAY SHALE.	85.11 —	45 50/5"		17				
		50/4"						
		50/5" 50/2" 50/0"		23				
Extent of exploration.	79.71	50/4" 50/1"		13				
Benchmark: Centerline of NB 1–57, Sta 4500+00, assumed elevation = 100.00°.		50/0"						

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer, E-Estimated)
Abbreviations W.O.H - Sampler Advanced By Weight of Hammer, W.O.P - Advanced by Weight of Pipe, B.S. - Before Seating
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206) BBS, from 137 (Rev. 8-99)

FILE NAME =	USER NAME = steffenmk	DESIGNED -	REVISED -			RC	ORING L	OG – LOCATION 2		F.A.	SECTION	COUNTY TOT.	TAL SHEET
c:\pw_work\pwidot\steffenmk\d0360593\D3	774643-sht-Boring.dgn	DRAWN -	REVISED -	STATE OF ILLINOIS					1	•	D7 ITS 2014	VARIOUS 72	2 63
	PLOT SCALE = 100.0000 '/ in.	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION	I-57 NB M.P. 148.4 STA. 4500 + 00							CONTRACT NO.	. 74643
Default	PLOT DATE = 5/22/2014	DATE -	REVISED -		SCALE: SHEET OF SHEETS STA. TO STA.						ILLINOIS FEE	D. AID PROJECT	
										 VARIO 	DUS		

File Name S;\NEW GEOTECHNICAL\GINTDATA\PROJECTS\EFFINGHAM CO (025)\025\025-0000 SOIL 2013 OH SIGN Laftlade W 88 deg 37 min 16.102 sec Longflude N 38 deg 58 min 29.157 sec Datum Job Number



GEOTECHNICAL\GINIDATA\PROJECTS\CUMBERLAND CO (018)\018-0000 (2) SOIL 2013 OH 25 min 17.679 sec Longitude N 39 deg 21 min 23.052 sec Datum Job Number

File Name S:\NEW G Latitude W 88 deg 2 SOIL BORING LOG

Page <u>1</u> of <u>1</u>

Date <u>10/29/13</u>

ROUTE FAI 57 (I-57) DESCRIF	PTION				Ove	rhead Sign Truss	LOGGED	BY	<u>E.</u>	<u>Sandsc</u>	<u>hafer</u>
SECTION D7 ITS 2014	LOC	OITA	ا	NE, SE	C. 33,	TWP. 11 N, RNG. 7 E, 3 PM					
COUNTY <u>Cumberland</u> DR	ILLING N	METHO	D	<u>Hol</u>	low ste	<u>m auger & split spoon</u> HAMMER 1	YPE		Auto	140#	
STRUCT. NO		D E P	B L O	U C S	M 0 1		<u>A</u> ft <u>A</u> ft	D E P	B L O	U C S	M O I
BORING NO. 1 (Median) Station 217+50 Offset 1.0ft Lt	<u> </u>	H	W S	Qu	S T	Groundwater Elev.: □ First Encounter 645.6 □ Upon Completion 653.6		H	W S	Qu	S T
Ground Surface Elev. 665.08	ft	(ft)	/6"	(tsf)	(%)	▼ After <u>168</u> Hrs. <u>653.6</u>	<u>S</u> ft	(ft)	/6"	(tsf)	(%)
3" topsoil. Stiff, damp, gray, CLAY.	_/ -664.78	- -				Medium to very dense, wet, brown, fine grained, SAND. 7% passing #200 sieve.			8 9		28
			7						9		
			7 8	1.75 PP	18	7% passing #200 sieve.			20 20		20
Medium, damp, gray/brown, SILTY	660.58		3						18		
CLAY.			4	0.74 B	21	6% passing #200 sieve.			26 27		21
			3	0.74	25	Hard, damp, brown, SILTY CLAY SHALE.	638.08	_	5	4.33	19
			3	B	23	STALE.			11	4.33 B	
Medium to stiff, damp, brown,	655.58	-10	3					-30	25		
CLAY.		_	2 3	0.74 B	18		634.28		47 50/4"	4.15 S	11
Ā	Ā					Extent of exploration.			(, -)		
			3 7	1.03	24						
		_	10	В		Benchmark: Top of ROW marker, E side of 1-57, Sta 214+50 = 665.41' elevation.					
Hard, very moist, brown, SANDY	650.58	-15	27			1-57 SB Mile Marker 178.8		-35			
CLAY LOAM TILL.		_	50/4" 50/4"	5.99 S	8						
	648.08	_									
Dense, wet, brown, fine grained, SAND. 7% passing #200 sieve.			17 17		22						
, , , , , , , , , , , , , , , , , , ,			16								
_											
Ā	645.08		10					-40			

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer, E-Estimated)
Abbreviations W.O.H — Sampler Advanced By Weight of Hammer, W.O.P — Advanced by Weight of Pipe, B.S. — Before Seating
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206) BBS, from 137 (Rev. 8-99)

Illinois Department of Transportation

Division of Highways

SOIL BORING LOG

Page <u>1</u> of <u>1</u>

Date <u>10/29/13</u>

ROUTE <u>FAI 57 (I-57)</u> DESCRIPTION			Ove	rhead Sign Truss	_ LOGGED	BY <u>E.</u>	Sandsch	<u>hafer</u>
SECTIOND7_ITS_2014 LOC	CATION	NE, SE		TWP. 11 N, RNG. 7 E, 3 PM				
COUNTY <u>Cumberland</u> DRILLING N	METHOD	Hol	llow ste	em auger & split spoon HAMMER	TYPE	Auto	140#	
STRUCT. NO. <u>7S018I057L178.8</u> Station	D B E L P O	U C S	M 0 1	Surface Water Elev. N, Stream Bed Elev. N,	<mark>/A</mark> ft <u>/A</u> ft	D B E L P O	U C S	M 0 1
BORING NO. 2 (W ShIdr) Station 217+50 Offset 92.0ft Lt Ground Surface Elev. 665.27 ft	T W H S (ft) /6	Qu " (tsf)	S T (%)	▼Upon Completion	<u>ry</u> ft <u>ry</u> ft .0 ft	T W S (ft) /6"	Qu (tsf)	S T (%)
3" topsoil	-			Very dense, moist, gray, SANDY CLAY LOAM TILL. Samples pokerchipped.		45 50/5"	5.82 S	7
	4 5 7	2.5 PP	19		641.77	30 44 49		7
				Extent of exploration.	041.77			
Medium, damp, brown/gray, SILTY CLAY.	_5 3	0.87	17					
	4	В		Benchmark: Top of ROW marker, E side of 1-57, Sta 214+50 = 665.41' elevation.				
	3 4	0.99 B	20	I-57 SB Mile Marker 178.8				
	3							
<u>*</u>	3 3	0.62 B	20					
Hard, very moist, brown, SANDY CLAY LOAM TILL. Samples	13		9			\exists		
pokerchipped.	27							
	<u>-15</u> 22	6.98	9					
	42	S				\dashv		
	18 44 50	4.38 S	7					
645.27						-40		

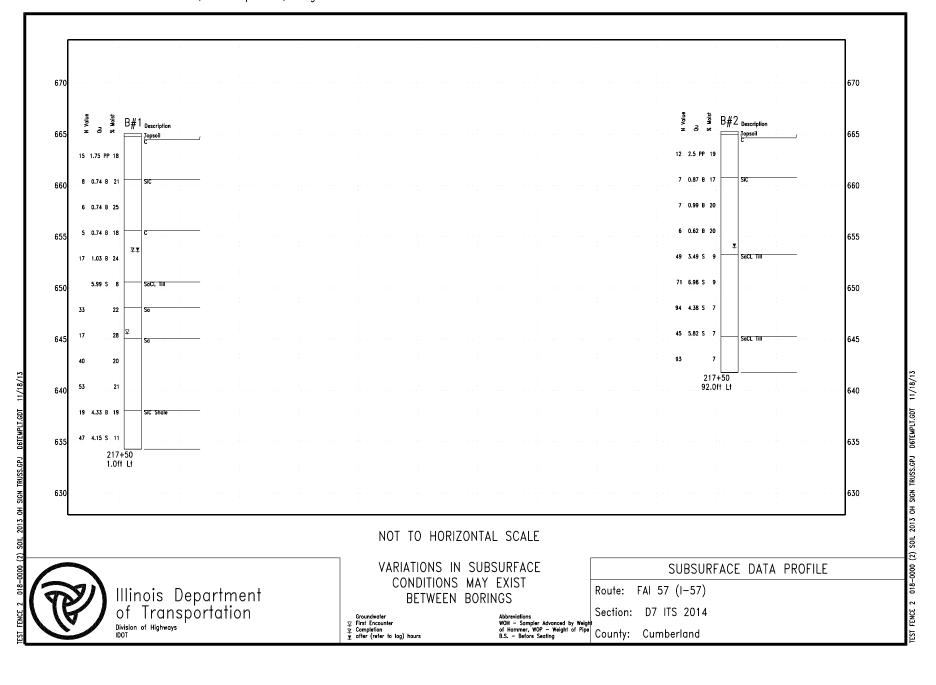
The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer, E-Estimated)
Abbreviations W.O.H — Sampler Advanced By Weight of Hammer, W.O.P — Advanced by Weight of Pipe, B.S. — Before Seating
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206) BBS, from 137 (Rev. 8-99)

ı	FILE NAME =	USER NAME = steffenmk	DESIGNED -	REVISED -	
ı	c:\pw_work\pwidot\steffenmk\d0360593\D7	74643-sht-Boring.dgn	DRAWN -	REVISED -	
ı		PLOT SCALE = 100.0000 '/ in.	CHECKED -	REVISED -	D
ı	Default	PLOT DATE = 5/22/2014	DATE -	REVISED -	

GEOTECHNICAL\CINTDATA\PROJECTS\CUMBERLAND CO (018)\018-0000 (2) SOIL 2013 OH 25 min 18.228 sec Longitude N 39 deg 21 min 23.456 sec Dortum Job Number

SCALE:

Structure Number 7S018I057L178.8 Overhead Sign Truss Located in the NE of Section 33, Township 11 N, Range 7 E of the 3 P.M.



FILE NAME =	USER NAME = steffenmk	DESIGNED -	REVISED -			R	ORING L	0G _ 10	CATION 3		F.A.	SECTION	COUNTY	TOTAL SHEET
c:\pw_work\pwidot\steffenmk\d0360593\D7	74643-sht-Boring.dgn	DRAWN -	REVISED -	STATE OF ILLINOIS	I-57 SB M.P. 178.8 STA. 217 + 50					•	D7 ITS 2014	VARIOUS	72 66	
	PLOT SCALE = 100.0000 '/ in.	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION	I-57 SB W.P. 178.8 STA. 217 + 50					CONTRAC	T NO. 74643			
Default	PLOT DATE = 5/22/2014	DATE -	REVISED -		SCALE:	SHEET	OF	SHEETS	STA.	TO STA.		ILLINOIS FEE	. AID PROJECT	
· · · · · · · · · · · · · · · · · · ·										-	• VΔ	RIOUS		

GEOTECHNICAL\CINTDATA\PROJECTS\CUMBERLAND CO (018)\018-0000 SOIL 2013 OH 20 min 34.836 sec Longitude N 39 deg 11 min 04.989 sec Dortum Job Number

File Name S:\NEW G Latitude W 88 deg 2 SOIL BORING LOG

Page <u>1</u> of <u>1</u>

Date <u>10/28/13</u>

ROUTE <u>FAI 70 (I-70)</u> DESCRI	PTION		Ove	erhead	Sign Truss - I-70 WB L	OGGED BY	<u>E.</u>	<u>Sandsc</u>	<u>hafer</u>
SECTION D7 ITS 2014	LOCATION		NE, SE	C. 31,	TWP. 9 N, RNG. 8 E, 3 PM				
COUNTY <u>Cumberland</u> DF	RILLING METHO	DD	<u>Hol</u>	low ste	em auger & split spoon HAMMER TYF	'E	Auto	140#	
STRUCT. NO. <u>7S0181070L107.6</u> Station	D E P T	B L O W	U C S	M 0 1	Surface Water Elev. N/A Stream Bed Elev. N/A		B L O W	U C S	M 0 1 S
BORING NO. 1 (Median) Station 98+64 Offset 3.0ft Lt	_ H	S	Qu	S T	Groundwater Elev.:	ft H	S	Qu	T
Ground Surface Elev. 95.63 4" topsoil.	ft (ft)	/6"	(tsf)	(%)	<u>▼</u> After <u>192</u> Hrs. <u>89.6</u>	ft (ft)	/6"	(tsf)	(%)
Stiff to medium, damp, gray marbled brown, CLAY.] 			Benchmark: Centerline of WB 1-70 Sta 98+64 = assumed elevation 100.00'.				
		3 4 4	1.5 PP	19	I–70 WB Mile Marker 107.60	_			
		2	1.40	19					
	<u>*</u>	3	В						
	<u> </u>	3 2 3	0.82 B	22		_			
	-10	2				-30			
Soft, very damp, brown, SANDY LOAM.	85.33	3	0.33 B	18					
Very dense, very moist, brown, SANDSTONE.	83.63	50/5" 50/2"		20					
		50/2"				_			
	<u>-15</u>	50/5" 50/2" 50/1"		19		<u>-35</u>			
Very dense, very moist, brown, SANDY CLAY SHALE.	78.63 77.83	41		10		_			
Extent of exploration.		50/3" 50/1"		16					
	-	1	1	1					

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer, E-Estimated)
Abbreviations W.O.H — Sampler Advanced By Weight of Hammer, W.O.P — Advanced by Weight of Pipe, B.S. — Before Seating
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206) BBS, from 137 (Rev. 8-99)

Illinois Department of Transportation

SOIL BORING LOG

Page <u>1</u> of <u>1</u>

Date <u>10/28/13</u>

ROUTE FAI 70 (I-70) DESCRIP	TION		Ove	rhead	Sign Truss - 1-70 WB	_ LOGGED	BY <u>E.</u>	Sandsc	<u>hafer</u>
SECTION D7 ITS 2014	LOCATION	_ ا	NE, SE	C. 31,	TWP. 9 N, RNG. 8 E, 3 PM				
COUNTY <u>Cumberland</u> DRI	LLING METHO	D	HoII	low ste	m auger & split spoon HAMMER	TYPE	Auto	140#	
STRUCT. NO. 7S018I070L107.6 Station 2 (N Shldr) Station 98+64	D E P T H	B L O W S	U C S Qu	M 0 I S T	Stream Bed Elev. N, Groundwater Elev.:	/A ft /A ft	D B E L P O T W H S	U C S Qu	M 0 1 S T
Offset 85.0ft Lt Ground Surface Elev. 99.62	_{ft} (ft)	/6"	(tsf)	(%)		<u>ry</u> ft .6 ft	(ft) /6"	(tsf)	(%)
16" asphalt shoulder on crushed aggregate base. Very stiff, damp, brown/gray,	97.62	4			Extent of exploration.		50/1 ² 50/1 ²		
CLAY.		7 11 5	2.47 B	17	Benchmark: Centerline of WB 1-7 Sta 98+64 = assumed elevation 100.00'.	0			
With trace Silt.	92.62	6 7	3.50 B	22	I-70 WB Mile Marker 107.60				
Medium, damp, brown marbled gray, SILTY CLAY.		3 3 3	0.99 B	21					
		2 3 8	0.99 B	21					
<u>,</u>		2 2 2	0.62 B	20					
Very soft, very damp, gray, SILT. Very dense, moist, brown, SANDSTONE.	85.12 -15 84.02	1 14 50/3"	0.16 B	30					
SARUSTONE.		50/4" 50/1" 50/1"		13					
	79.72 -20	50/3"							

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer, E-Estimated)
Abbreviations W.O.H — Sampler Advanced By Weight of Hammer, W.O.P — Advanced by Weight of Pipe, B.S. — Before Seating
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206) BBS, from 137 (Rev. 8—99)

FILE NAME =	USER NAME = steffenmk	DESIGNED -	REVISED -	Ī
c:\pw_work\pwidot\steffenmk\d0360593\D7	74643-sht-Boring.dgn	DRAWN -	REVISED -	l
	PLOT SCALE = 100.0000 '/ in.	CHECKED -	REVISED -	l
Default	PLOT DATE = 5/22/2014	DATE -	REVISED -	L

STATE OF	ILLINOIS
DEPARTMENT OF	TRANSPORTATION

SCALE:

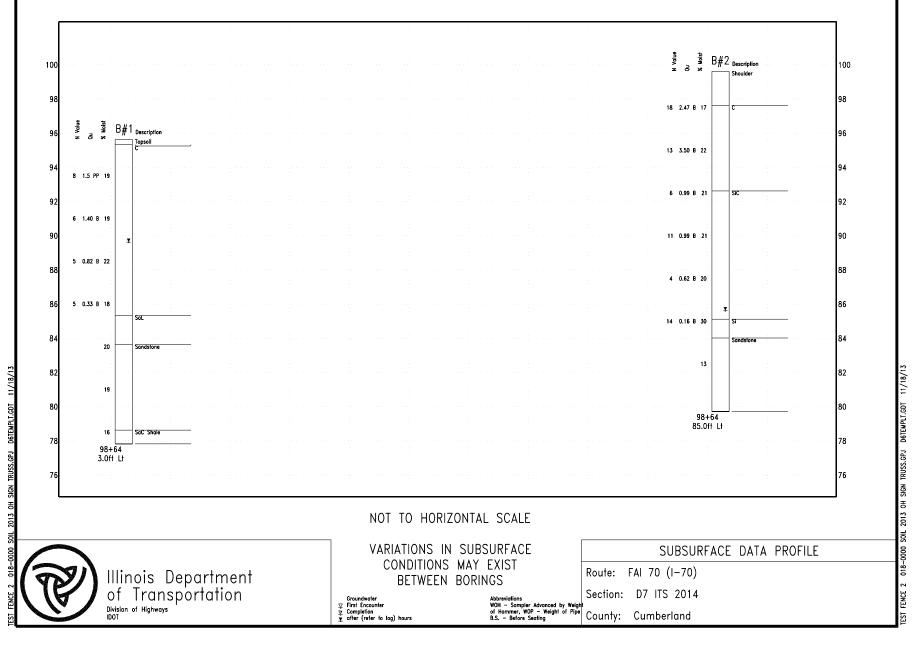
ВО	RING LO	0G – LO	F.A. RTE.	SECTION	COUNTY		
L-70 V	MR MP	. 107.6 S	•	D7 ITS 2014	VARIOUS		
	VVD IVI.I	. 107.0 3	IA. 100	1 400			CONTRAC
SHEET	OF	SHEETS	STA.	TO STA.		ILLINOIS FED.	AID PROJECT

COUNTY SHEETS NO.

VARIOUS 72 67

CONTRACT NO. 74643

Structure Number 7S018I070L107.6 Overhead Sign Truss — I—70 WB Located in the NE of Section 31, Township 9 N, Range 8 E of the 3 P.M.



FILE NAME =	USER NAME = steffenmk	DESIGNED -	REVISED -			B	RORING	LOG - LOCATION 4	F.A. RTE.	SECTION	COUNTY SHEE	AL SHE	
c:\pw_work\pwidot\steffenmk\d0360593\D7	74643-sht-Boring.dgn	DRAWN -	REVISED -	STATE OF ILLINOIS		⊢70 WB M.P. 107.6 STA. 180 + 400					D7 ITS 2014	VARIOUS 72	2 61
	PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION								CONTRACT NO.	7464
Default	PLOT DATE = 5/22/2014	DATE -	REVISED -		SCALE:	SHEET	OF	SHEETS STA.	TO STA.		ILLINOIS FED.	AID PROJECT	

GEOTECHNICAL\GINTDATA\PROJECTS\CLARK CO (012)\012-0000 SOIL 2013 0H SIGN 32 min 36.528 sec Longitude N 39 deg 25 min 50.034 sec Datum Job Number

File Name S:\NEW G Latitude W 87 deg 3

SOIL BORING LOG

Page <u>1</u> of <u>1</u>

Date <u>10/25/13</u>

ROUTE FAI 70 (I 70) DESCRIPTION		0	verhead	d Sign Truss I-70 WB	LOGGED B	Y <u>E.</u>	<u>Sandsc</u>	<u>hafer</u>
SECTION D7 ITS 2014 L	CATION	NE, SE	C. 5,	TWP. 11 N, RNG. 10 W, 3 PM				
COUNTY Clark DRILLING	METHOD	<u>Ho</u>	llow ste	em auger & split spoon HAMMER	TYPE _	Auto	140#	
STRUCT. NO. <u>7S012I070L155.0</u> Station	D E L P C	. C) S	M 0 - 6	Stream Bed Elev. <u>N/</u>	A ft A ft	D B E L P O	U C S	M 0 1 S
BORING NO. 1 (Median) Station 515+62 Offset 7.0ft Lt Ground Surface Elev. 540.48 ft	H	l l	S T (%)	Upon Completion 529.	4 ft	T W H S (ft) /6"	Qu (tsf)	(%)
4" topsoil. 540. Very stiff, damp, brown, CLAY.		(101)	(,,)	Extent of exploration.	519.68	50/5" 50/4"	7.60 S	7
		2.75	20	Benchmark: Chiseled square on existing North headwall of box	- -			
Medium, damp, gray, SILTY CLAY LOAM w/ wood and organics.	98 	0.74	21	culvert, West corner, Sta 517+00 542.21' elevation.	= _			
No recovery this trip.		2			_			
Very stiff, damp, gray, CLAY LOAM. Brown, gravelly, SANDY LOAM. 530. 530. 529.	-10 1	0 3.71	9		- -			
Hard, very moist, brown, CLAY LOAM TILL.	78 1	2 +4.5	13		<u>-</u>			
	50, 50,	2" +4.5	6		- -			
	3 50,	[/] 5" 12.12	6		<u>-</u>			
		2			_			

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer, E-Estimated)
Abbreviations W.O.H — Sampler Advanced By Weight of Hammer, W.O.P — Advanced by Weight of Pipe, B.S. — Before Seating
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206) BBS, from 137 (Rev. 8-99)

Illinois Department of Transportation Division of Highways

SOIL BORING LOG

Page $\underline{1}$ of $\underline{1}$

Date <u>10/25/13</u>

ROUTE <u>FAI 70 (I 70)</u> DESCRIPTION		Ov	erhead	1 Sign Truss 1-70 WB	LOGGED B	′ <u>E.</u>	Sandscl	hafer
SECTION D7 ITS 2014	OCATION _	NE, SEC	C. 5, T	TWP. 11 N, RNG. 10 W, 3 PM				
COUNTY Clark DRILLIN	METHOD	Holle	ow ste	m auger & split spoon HAMMER	TYPE	Auto	140#	
STRUCT. NO. <u>7S012I070L155.0</u> Station	D B E L P O T W	U C S	M 0 - S		A ft	D B E L P O	U C S	M 0 1 S
BORING NO. 2 (N ShIdr) Station 515+48 Offset 92.0ft Lt Ground Surface Elev. 538.56	H S (ft) /6	Qu " (tsf)	T		ry ft ry ft	H S ft) /6"	Qu (tsf)	ĭ (%)
3" topsoil. <u>\$538</u>		()	(1-7	Hard, very moist, gray, CLAY LOAM TILL. (continued)		41	11.52	7
Very dense, very moist, brown, CLAY LOAM TILL.				Extent of exploration.	<u>517.66</u> 	50/5"	В	
535			6		_	_		
Very sandy, brown, SANDY LOAM w/ gravel. 534	46			Benchmark: Chiseled square on existing North headwall of box culvert, West corner, Sta 517+00	= -			
Hard, very moist, gray, CLAY LOAM TILL.	<u>-5</u> 45	11.52	6	542.21' elevation.		<u>-25</u>		
	25	В		I-70 WB Mile Marker 155.0				
	17				_]		
	22 26	10.69 S	9			_		
					_	_		
	-10 18 - 20 - 34	9.38 S	8		<u></u>	-30		
		3			_			
	9 21	7.66	9		_			
	34	S						
	28					-35		
	40 50/5	8.75 " S	7					
					_			
	28 45	11.06	7		_	_		
	50/5	" S			_	\exists		
	20 24					40		

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer, E-Estimated)
Abbreviations W.O.H — Sampler Advanced By Weight of Hammer, W.O.P — Advanced by Weight of Pipe, B.S. — Before Seating
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206) BBS, from 137 (Rev. 8-99)

FILE NAME =	USER NAME = steffenmk	DESIGNED -	REVISED -			Ri	ORING L	OG – LOCATION 5		F.A.	SECTION
c:\pw_work\pwidot\steffenmk\d0360593\D	74643-sht-Boring.dgn	DRAWN -	REVISED -	STATE OF ILLINOIS		_		•	D7 ITS 2014		
	PLOT SCALE = 100.00000 '/ in.	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION		1-70	VVD IVI.	P. 155.0 STA. 515 + 51			
Default	PLOT DATE = 5/22/2014	DATE -	REVISED -		SCALE:	SHEET	OF	SHEETS STA.	TO STA.		ILLINOIS FEE

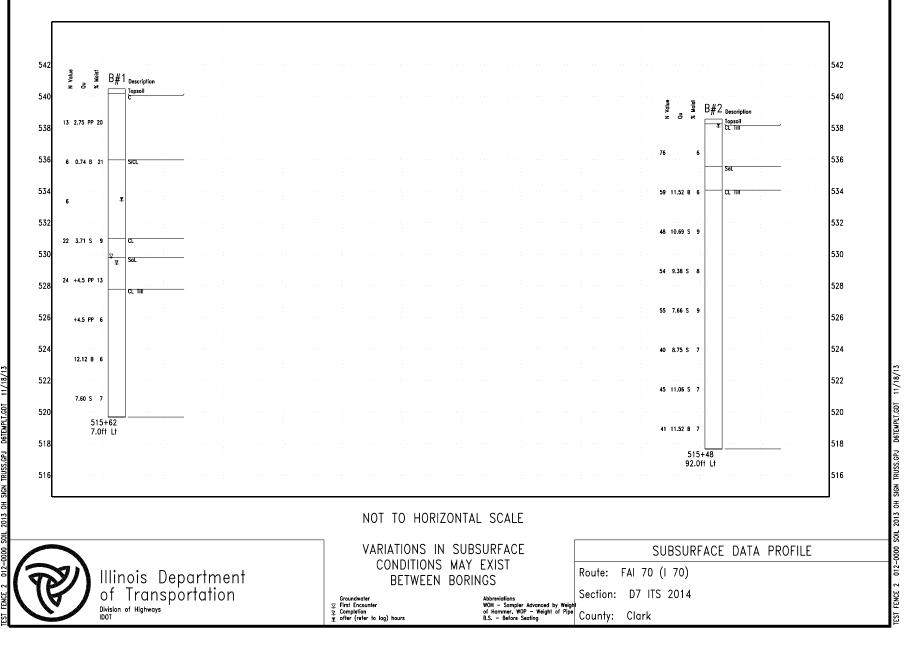
File Name S;\NEW GEOTECHNICAL\GINTDATA\PROJECTS\CLARK CO (012)\012\012-0000 S0IL 2013 0H SIGN Lafflade W 87 deg 32 min 37.077 sec Longflude N 39 deg 25 min 50.459 sec Datum Job Number

COUNTY TOTAL SHEET NO.

VARIOUS 72 69

CONTRACT NO. 74643

Structure Number 7S012I070L155.0 Overhead Sign Truss I—70 WB Located in the NE of Section 5, Township 11 N, Range 10 W of the 3 P.M.



FILE NAME =	USER NAME = steffenmk	DESIGNED -	REVISED -			R	ORING L	0G – 10	CATION 5		F.A.	SECTION	COUNTY	TOTAL SHE	ET O
c:\pw_work\pwidot\steffenmk\d0360593\D7	74643-sht-Boring.dgn	DRAWN -	REVISED -	STATE OF ILLINOIS		I-70 WB M.P. 155.0 STA. 515 + 51							VARIOUS	72 7	<u>.</u>
	PLOT SCALE = 100.0000 '/ in.	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION									CONTRAC	T NO. 7464	43
Default	PLOT DATE = 5/22/2014	DATE -	REVISED -		SCALE:						ILLINOIS FED. AID PROJECT				
											• VΔ	RIOUS			_

File Name S;\NEW GEOTECHNICAL\GNIDATA\PROJECTS\LAWRENCE CO (051)\051-0000 S01L 2013 0H SION Lafflade W 87 deg 31 min 22.068 sec Longitude N 38 deg 42 min 25.889 sec Datum Job Number

SOIL BORING LOG

Page $\underline{1}$ of $\underline{1}$

Date <u>10/22/13</u>

ROUTE US 50 DESCRI	PTION _		Over	rhead :	Sign Truss - US 50 WB LO	GGED BY	<u>E.</u>	Sandso	hafer
SECTION D7 ITS 2014	LOCAT	ION _	SE, SE	C. 9,	TWP. 3 N, RNG. 10 W, 3 PM				
COUNTY <u>Lawrence</u> DF	RILLING MET	HOD	<u>Hol</u>	low ste	em auger & split spoon HAMMER TYPE		Auto	140#	
STRUCT. NO7S051U050L021.4 Station	<u></u>	D B L D O	U C S	M 0 1	Surface Water Elev. N/A f Stream Bed Elev. N/A f	t E P	B L O	U C S	M 0 1
BORING NO. 1 (Median) Station 1058+19 Offset 11.0ft Lt	 '	H S	Qu	S T	Groundwater Elev.:	†	S	Qu	S T
Ground Surface Elev. 480.98 3" topsoil.	ft (1	ft) /6"	(tsf)	(%)	▼ After <u>24</u> Hrs. <u>472.8</u> f Very dense, moist, gray,		/6" 50/0"	(tsf)	(%)
Brown, CLAY.	_ -480.68 478.98				SANDSTONE. Sample pokkerchipped and powder. (continued)	<u>-</u>	50/0"		
Loose, damp, gray, SANDY LOAM. Sample pokerchipped and powdered, unable to test.		12 5 4		14	Extent of exploration.	58.58	50/3" 50/1" 50/1"		7
Medium, damp, gray, SILTY LOAM.	476.48	1 1	0.58	20	Benchmark: Brass tablet on NW corner of WB US 50 bridge over		<u>.</u>		
		<u>2</u>	B	20	the Wabash River (Indiana Dept of Transportation) = 468.60' elevation. (Proposed location (Sta 1058+19)		- - -		
Stiff, damp, gray, SILTY CLAY.	473.98 <u>¥</u> —	2 2 3	1.03 B	18	is 522' W of WB US 50 bridge West Abutment joint.) US 50 WB Mile Marker 21.40	<u> </u>			
Stiff, damp, gray marbled brown, CLAY.	471.48 		1.15	23	US 30 WB MITE MATKET 21.40		- - - <u>)</u>		
Citt	468.98	8	В						
Stiff, damp, gray marbled brown, SANDY CLAY LOAM.	_	10 19 17	1.84 S	17			_		
Very stiff, damp, brown, SILTY CLAY LOAM TILL.	466.48	8 13	2.76	15			- - <u>-</u>		
	 463.98	38	S				1		
Very dense, very moist, gray, SANDY CLAY SHALE. Sample	403.30	50/5"		7			-		
pokerchipped and powdered, unable to test.	_	50/1" 50/1"		7_/		_	_		
	461.48	50/2"		8		- 40]		

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer, E-Estimated)
Abbreviations W.O.H — Sampler Advanced By Weight of Hammer, W.O.P — Advanced by Weight of Pipe, B.S. — Before Seating
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206) BBS, from 137 (Rev. 8-99)

Illinois Department of Transportation

SOIL BORING LOG

Page <u>1</u> of <u>1</u>

Date <u>10/22/13</u>

ROUTE US 50 DESC	RIPTION		Over	head S	Sign Truss - US 50 WB	LOGGED E	BY <u>E. :</u>	Sandsc	<u>hafer</u>
SECTION D7 ITS 2014	LOCATION		SE, SE	C. 9, T	WP. 3 N, RNG. 10 W, 3 PM				
COUNTY <u>Lawrence</u>	DRILLING METHO	D	<u>Holl</u>	low ste	m auger & split spoon HAMMER TY	ſΡE _	Auto	140#	
STRUCT. NO	E P	B L O	U C S	M 0 - 0	Surface Water Elev. N/A Stream Bed Elev. N/A		D B E L P O	U C S	M 0 1
BORING NO. 2 (N ShIdr) Station Offset 1058+19 Ground Surface Elev. 480.5	T H	₩ S /6"	Qu (tsf)			ft ft ft	T W S (ft) /6"	Qu (tsf)	S T (%)
2" topsoil. Brown, CLAY.	478.57				Very dense, very moist, gray, SANDY CLAY SHALE. Samples pokerchipped and powder.	_	50/1" 50/0"		
Very stiff, damp, gray, SILTY CLAY	/	5 4 3	3.09 B	17	Extent of exploration.	458.17 _	50/4" 50/1" 50/0"		7
Very stiff to stiff, damp, gray, CL	476.07	3 3 4	2.06 B	19	Benchmark: Brass tablet on NW	- -			
		2	1.65	22	corner of WB US 50 bridge over the Wabash River (Indiana Dept of Transportation) = 468.60' elevation. (Proposed location (Sta 1058+19)	<u>-</u>			
	471.07	4	B	22	is 522' W of WB US 50 bridge West Abutment joint.) US 50 WB Mile Marker 21.40	_			
Stiff, damp, brown marbled gray, SILTY CLAY LOAM.	<u>−10</u>	3 5 8	2.27 B	17		<u>-</u>	<u>-30</u>		
		5	1.93	20		<u>-</u>			
Very stiff, damp, brown, SANDY	466.07	18	S			-	-35		
CLAY LOAM.	<u>-15</u> 464.57	19 30	2.75 PP	11		_ _			
Very dense, very moist, brown, SANDY CLAY SHALE.		50/4"		12		-			
		50/1" 50/1"				- -			
	460.57 -20	50/2"		9			-40		

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer, E-Estimated)
Abbreviations W.O.H — Sampler Advanced By Weight of Hammer, W.O.P — Advanced by Weight of Pipe, B.S. — Before Seating
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206) BBS, from 137 (Rev. 8—99)

ILE NAME =	USER NAME = steffenmk	DESIGNED -	REVISED -			R	ORING L	nc –	LOCATI	ON 6		F.A.	SECTION	COUNTY	TOTAL	SHEET
:\pw_work\pwidot\steffenmk\d0360593\D7	74643-sht-Boring.dgn	DRAWN -	REVISED -	STATE OF ILLINOIS	IIS EO WID M B 21 40 STA 1059 L 00 . D7		US 50 WB M.P. 21.40 STA. 1058 + 00						D7 ITS 2014	VARIOUS	72	71
	PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION								CONTRAC	T NO.	74643		
efault	PLOT DATE = 5/22/2014	DATE -	REVISED -		SCALE:	SHEET	0F	SHE	ETS STA		TO STA.		ILLINOIS FED.	AID PROJECT		

File Name S;\NEW GEDTECHNICAL\GINTDATA\PROJECTS\LAWRENCE CO (051)\051-0000 SOIL 2013 OH SIGN Lafflade W 87 deg 31 min 22.123 sec Longflude N 38 deg 42 min 26.123 sec Datum Job Number

FILE NAME = USER NAME = steffenmk DESIGNED -REVISED 74643-sht-Boring.dgn DRAWN -REVISED CHECKED -REVISED PLOT DATE = 5/22/2014 DATE REVISED

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

BORING LOG - LOCATION 6 US 50 WB M.P. 21.40 STA. 1058 + 00 SHEETS STA.

SCALE:

COUNTY TOTAL SHEET NO.

VARIOUS 72 72 SECTION D7 ITS 2014

