

D3-1_48X18; 1.5" Radius, 0.5" Border, White on Green; [108th Av] C 60% spacing;



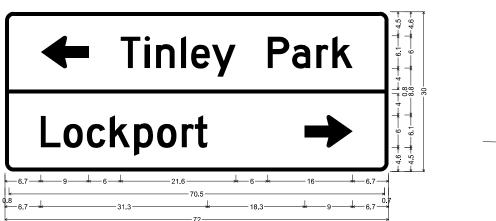
Will-Cook Rd

-60-

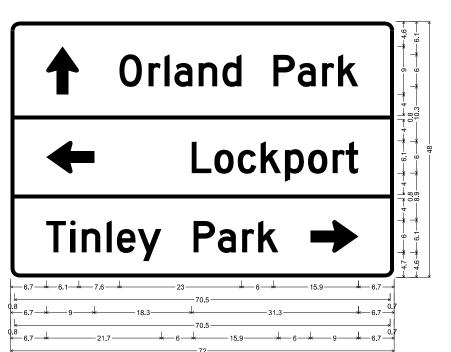
+48 + 93 - 35

D3-1_42X18; 1.5" Radius, 0.5" Border, White on Green; [159th St] C 60% spacing;

35

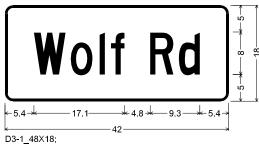


D1-2_72x30; 1.6" Radius, 0.8" Border, White on Green; Standard Arrow Custom 9.0" X 6.1" 180°; [Tinley Park] D 2K 99% spacing; [Lockport] D 2K; Standard Arrow Custom 9.0" X 6.1" 0°;



D1-3_72x48; 1.6" Radius, 0.8" Border, White on Green;

Standard Arrow Custom 9.0" X 6.1" 90°; [Orland Park] D 2K; Standard Arrow Custom 9.0" X 6.1" 180°; [Lockport] D 2K; [Tinley] D 2K; [Park] D 2K; Standard Arrow Custom 9.0" X 6.1" 0°;



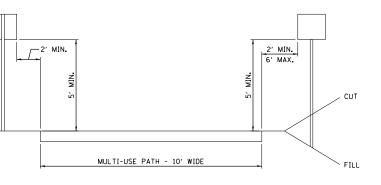
-38.9

D3-1_60X18; 1.5" Radius, 0.5" Border, White on Green;

[Will-Cook Rd] C 60% spacing;

D3-1_48X18; 1.5" Radius, 0.5" Border, White on Green; [Wolf Rd] C 60% spacing;

FILE NAME =	USER NAME = jwmiller	DESIGNED - JPW	REVISED -			F.AP. RTF.	SECTION	COUNTY TOTAL SI SHEETS	HEET
D160L72-sht-pmkdetails.dgn		DRAWN - CGC	REVISED -	STATE OF ILLINOIS	SIGN DETAILS	351	2010-081-R	СООК 1045	301
	PLOT SCALE = 1:100	CHECKED – TJN	REVISED -	DEPARTMENT OF TRANSPORTATION				CONTRACT NO. 601	_72
\$MODELNAME\$	PLOT DATE = 10/24/2014	DATE - 10/28/14	REVISED -		SCALE: N.T.S. SHEET 1 OF 2 SHEETS STA TO STA		ILLINOIS FED. 4	AID PROJECT	



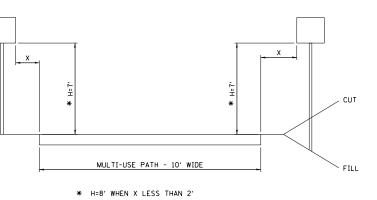
TYPICAL MULTI-USE PATH SIGN PLACEMENT

1′ MIN,-

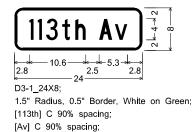
FOC 🔨

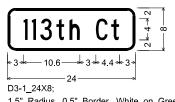
1' MIN, -

FOC -

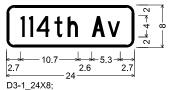


TYPICAL ROADWAY SIGN PLACEMENT ADJACENT TO MULTI-USE PATH

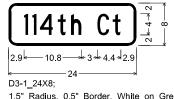




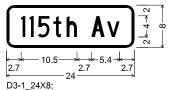
1.5" Radius, 0.5" Border, White on Green, [113th] C 90% spacing; [Ct] C 90% spacing;



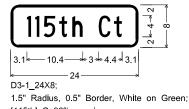
1.5" Radius, 0.5" Border, White on Green; [114th] C 90% spacing; [Av] C 90% spacing;



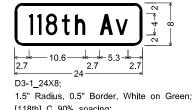
1.5" Radius, 0.5" Border, White on Green; [114th] C 90% spacing; [Ct] C 90% spacing;



1.5" Radius, 0.5" Border, White on Green; [115th] C 90% spacing; [Av] C 90% spacing;



[115th] C 90% spacing; [Ct] C 90% spacing;



[118th] C 90% spacing; [Av] C 90% spacing;

159th	St	2 1 4 4 2	
2.6 11.8 24 D3-1 24X8;	+4.3+	.6	_

1.5" Radius, 0.5" Border, White on Green; [159th] C 90% spacing; [St] C 90% spacing;



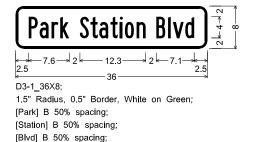
-24-W16-8P_24x8; 1.5" Radius, 0.5" Border, 0.5" Indent, Black on Yellow; [Wolf] C 2K; [Rd] C 2K;



W16-8P_30x8; 1.5" Radius, 0.5" Border, 0.5" Indent, Black on Yellow; [RavInIa] C 2K; [Av] C 2K;



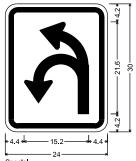
1.5" Radius, 0.5" Border, 0.5" Indent, Black on Yellow; [104th] C 2K; [Av] C 2K;



ŝ O - 13.85 - 0.5 * - 10 8----17 2.68 16.52-- 12.31-1 17 - 30 -

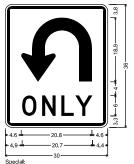
SPECIAL; R3-8_30x30; 1.50" Radius, 0.50" Border, 0.50" Indent, Black on White; R3-8a left turn arrow ir=5.813, s=2.5; [ONLY] D 2K specified length; Table of widths and spaces.

FILE NAME =	USER NAME = jwmiller	DESIGNED - JPW	REVISED -					
D160L72-sht-pmkdetails.dgn		DRAWN - CGC	REVISED -	STATE OF ILLINOIS			SIGN	DET
	PLOT SCALE = 1:100	CHECKED – TJN	REVISED -	DEPARTMENT OF TRANSPORTATION				
\$MODELNAME\$	PLOT DATE = 10/24/2014	DATE - 10/28/14	REVISED -		SCALE: N.T.S.	SHEET 2	0F 2	SHEETS

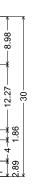


Special;

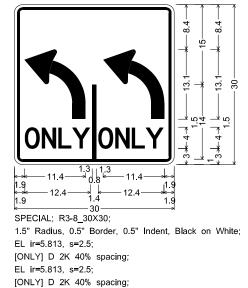
3.0" Radius, 1.3" Border, 0.8" Indent, Black on White, EL Ir=5.813, s=2.5;



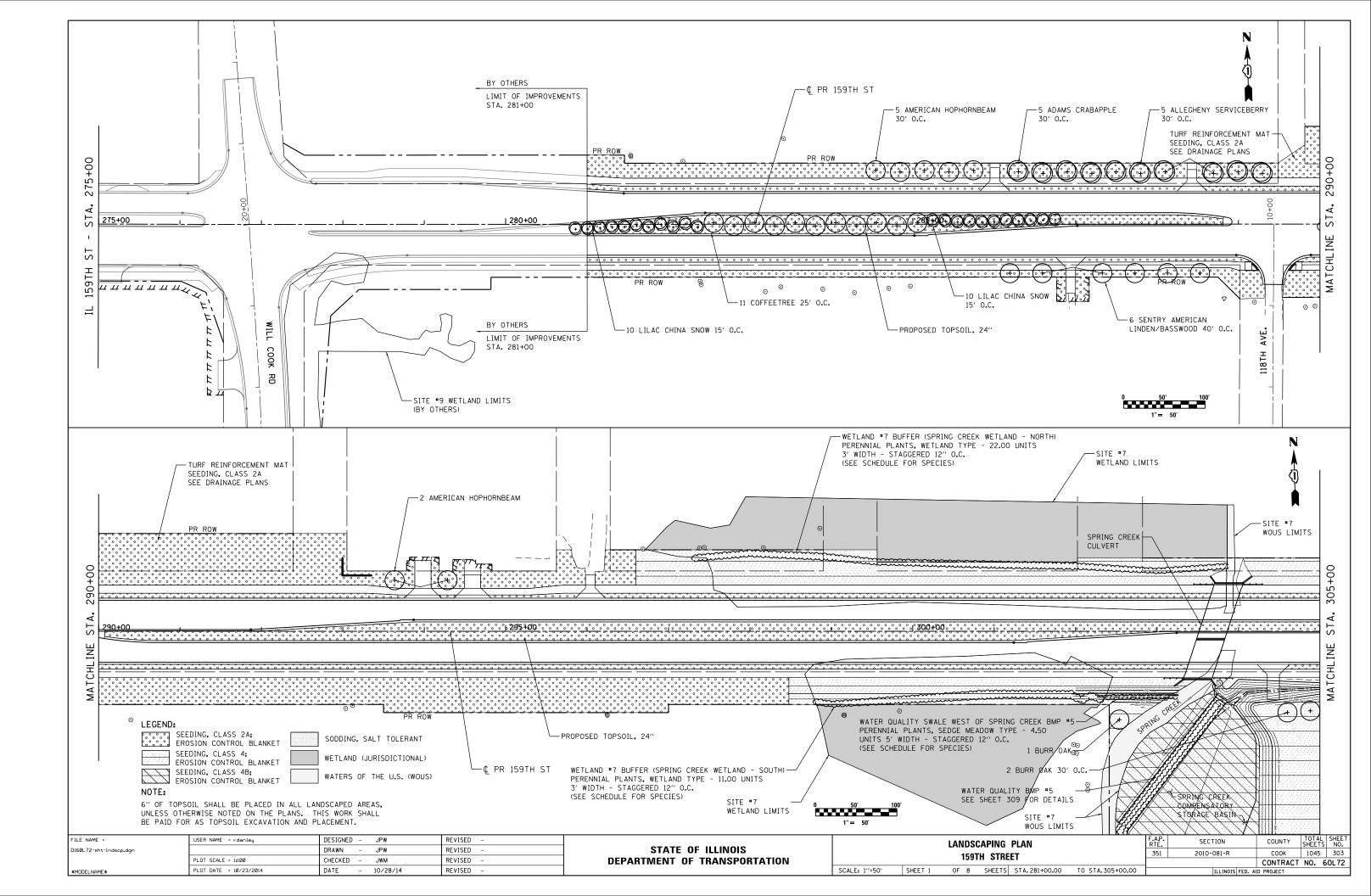
Special; 1.9" Radius, 0.8" Border, 0.5" Indent, Black on White; [ONLY] D 115% spacing;

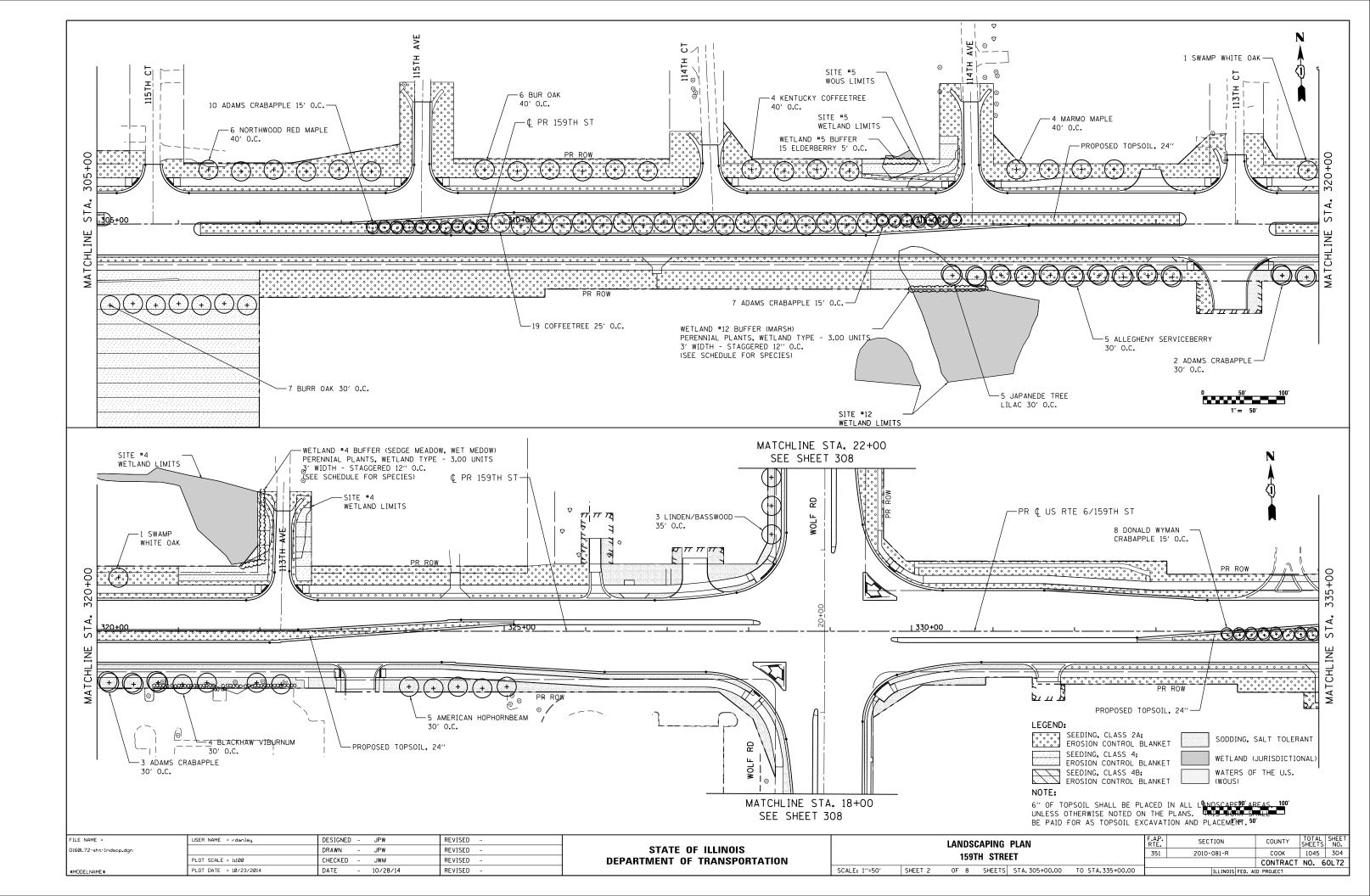


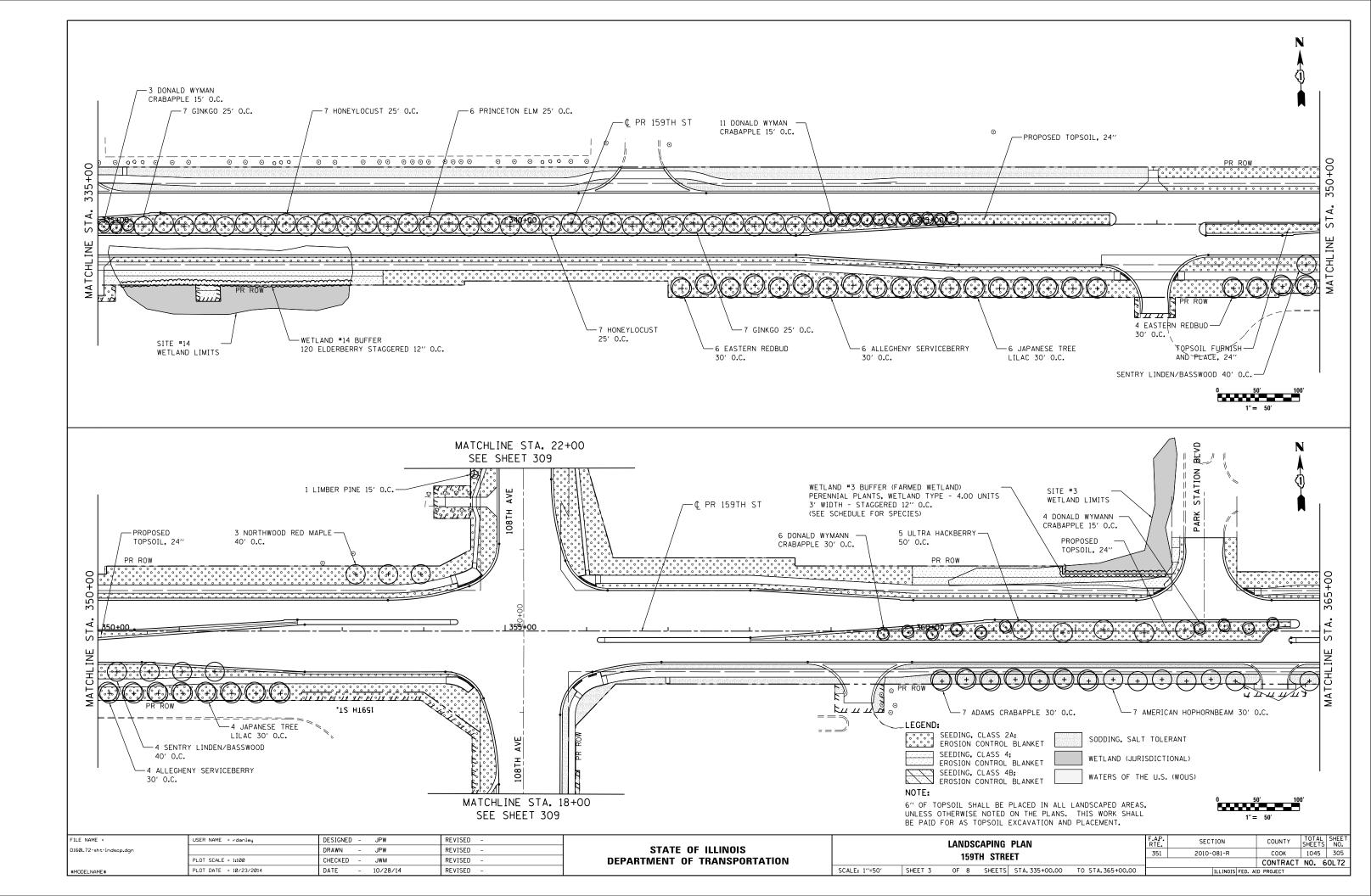
6

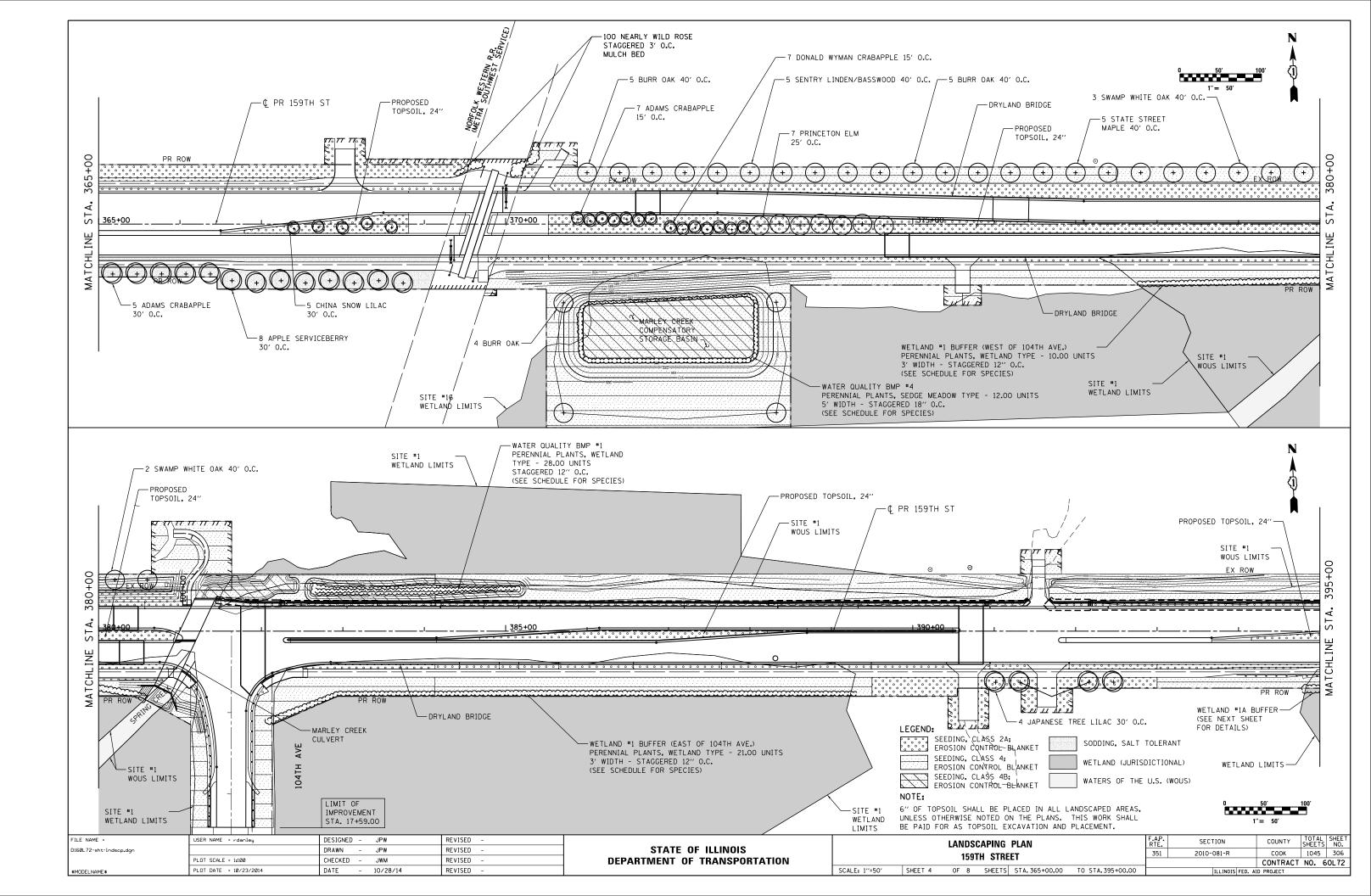


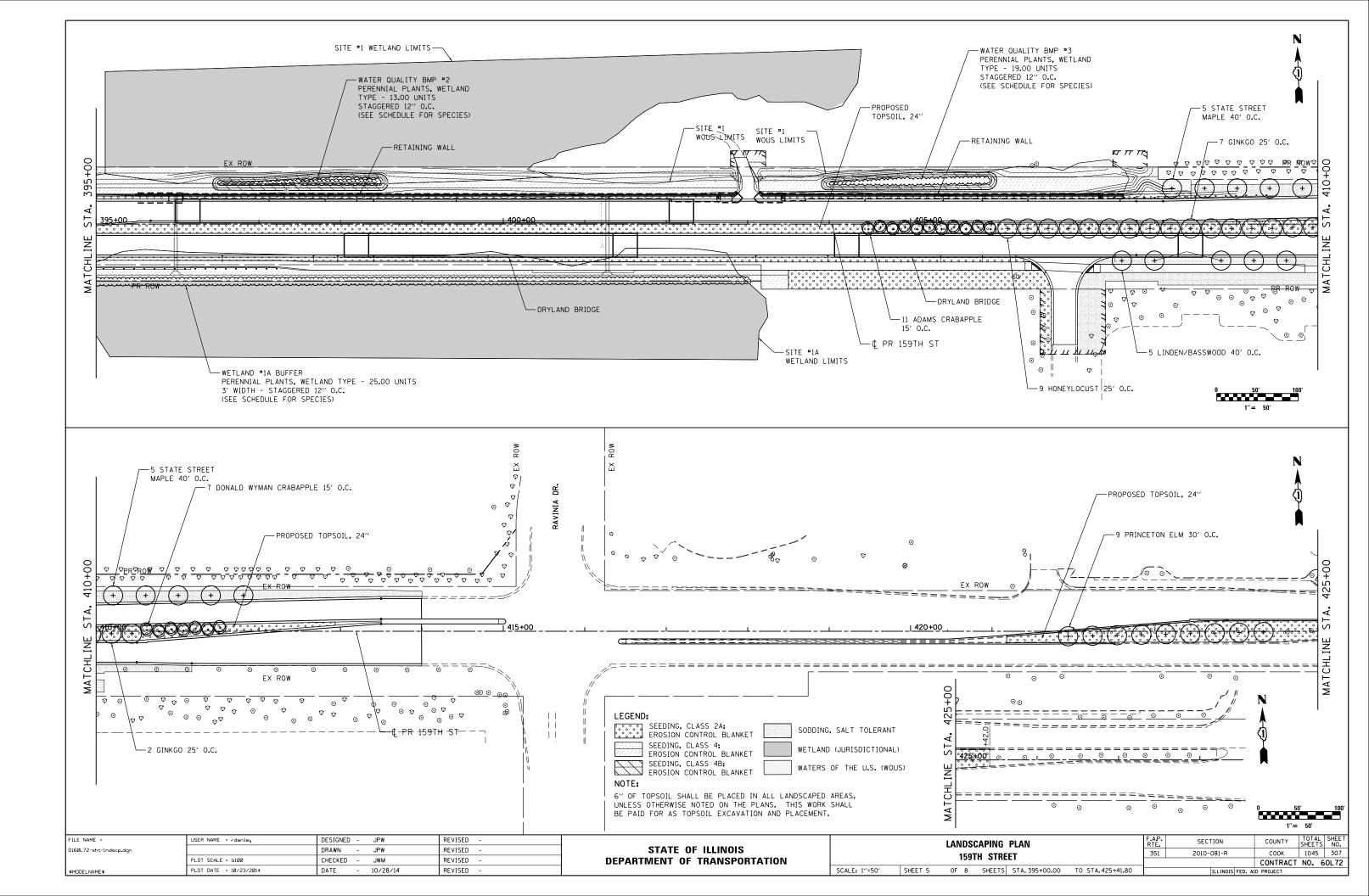
TOTAL SHEET SHEETS NO. AP. RTE COUNTY SECTION ETAILS COOK 1045 302 351 2010-081-R CONTRACT NO. 60L72 TS STA. TO STA. ILLINOIS FED. AID PROJECT -

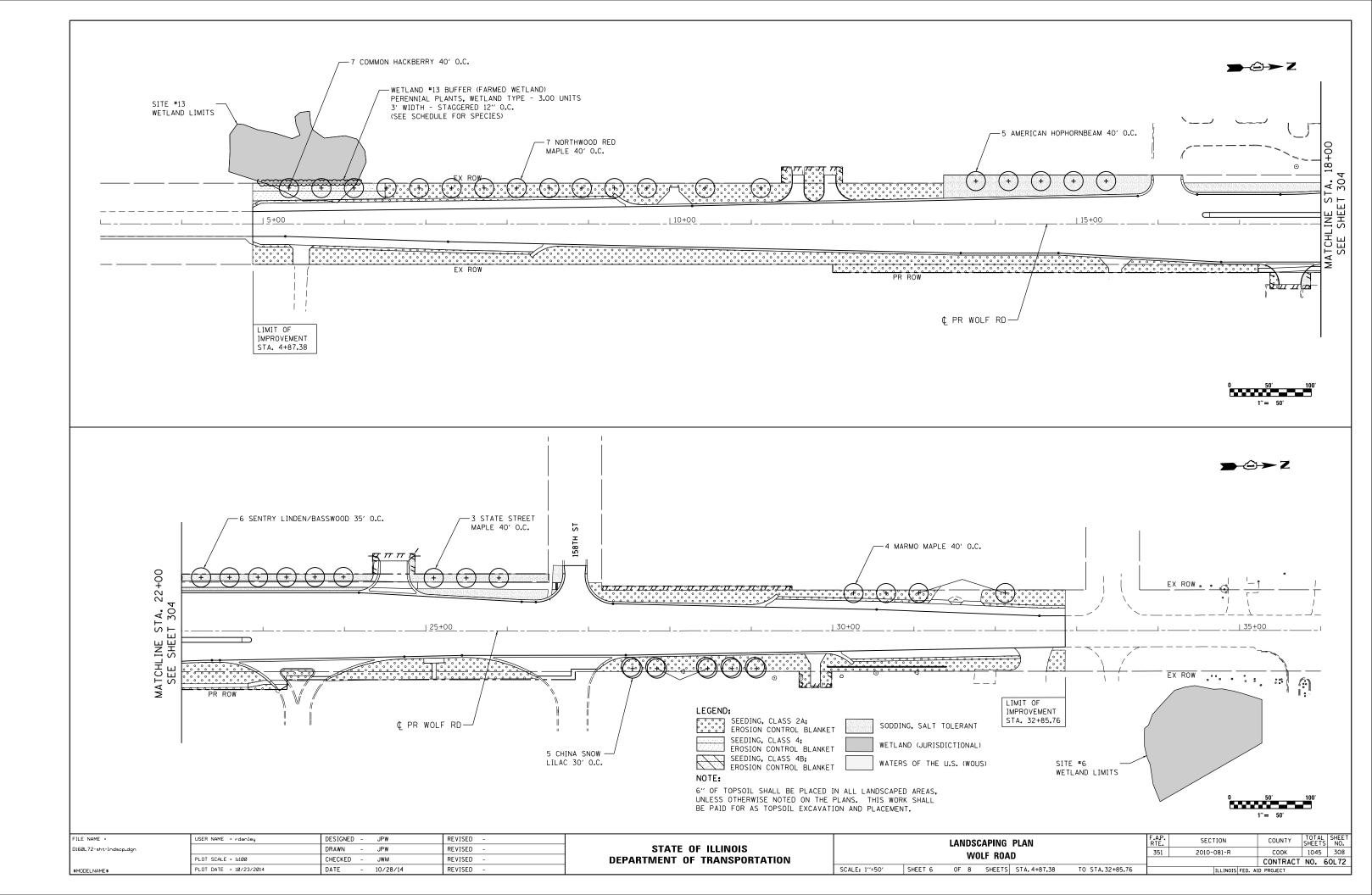


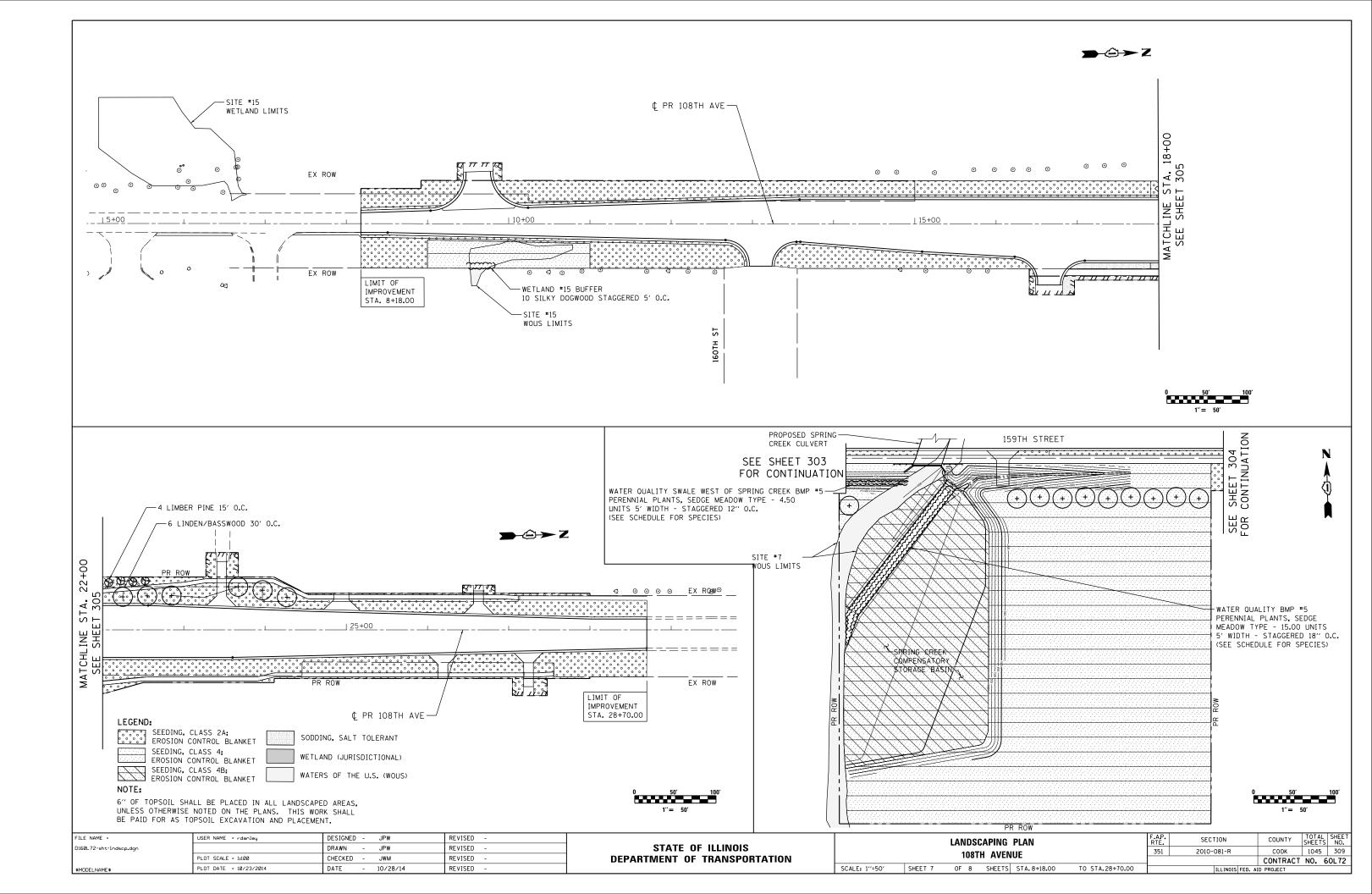












	SCHEDULE LANDSCAPE ITEMS										T				
	Ι					SH	EET NUM	BER	1			WAT	ER QUALITY D	ETAILS	
ITEM	DESCRIPTION	UNIT	TOTAL	269	270	271	272	273	274 (WOLF RD)	275 (108TH AVE)	SPRING CREEK COMP BASIN BMP#5	MARLEY CREEK COMP BASIN BMP #4	MARLEY CREEK BMP#1	MARLEY CREEK BMP#2	MARLEY CREEK BMP#3
A2000216	TREE, ACER X FREEMANII MARMO (MARMO FREEMAN MAPLE), 2" CALIPER, BALLED AND BURLAPPED	EACH	8		4				4						
A2000320	TREE, ACER MIYABEI MORTON (STATE STREET MIYABE MAPLE), 2-1/2" CALIPER, BALLED AND BURLAPPED	EACH	18				5	10	3						
A2002516	TREE, CARPINUS CAROLINIANA (AMERICAN HORNBEAM), 2" CALIPER, BALLED AND BURLAPPED	EACH	5						5						
A2002916	TREE, CELTIS OCCIDENTALIS (COMMON HACKBERRY), 2" CALIPER, BALLED AND BURLAPPED	EACH	7						7						
A2004516	TREE, GINKGO BILOBA PRINCETON SENTRY (PRINCETON SENTRY GINKGO), 2" CALIPER, BALLED AND BURLAPPED	EACH	23			14		9							
A2004716	TREE, GLEDITSIA TRIACANTHOS INERMIS SHADEMASTER (SHADEMASTER THORNLESS COMMON HONEYLOCUST), 2" CALIPER, BALLED AND BURLAPPED	EACH	23			14		9							
A2005020	TREE, GYMNOCLADUS DIOICUS (KENTUCKY COFFEETREE), 2-1/2" CALIPER, BALLED AND BURLAPPED	EACH	34	11	23										
A2005670	TREE, OSTRYA VIRGINIANA (AMERICAN HOPHORNBEAM), 8' HEIGHT, CLUMP FORM, BALLED AND BURLAPPED	EACH	19	7	5	7									
A2006516	TREE, QUERCUS BICOLOR (SWAMP WHITE OAK), 2" CALIPER, BALLED AND BURLAPPED	EACH	7		2		5								
A2006716	TREE, QUERCUS MACROCARPA (BUR OAK), 2" CALIPER, BALLED AND BURLAPPED	EACH	26	3	13		10								
A2008468	TREE, ULMUS AMERICANA PRINCETON (PRINCETON AMERICAN ELM), 2" CALIPER, BALLED AND BURLAPPED	EACH	21			6	7	8							
B2000666	TREE, AMELANCHIER X GRANDIFLORA (APPLE SERVICEBERRY), 6' HEIGHT, SHRUB FORM, BALLED AND BURLAPPED	EACH	8				8								
B2000964	TREE, AMELANCHIER LAEVIS (ALLEGHENY SERVICEBERRY), 5' HEIGHT, CLUMP FORM, BALLED AND BURLAPPED	EACH	20	5	5	10									
B2001166	TREE, CERCIS CANADENSIS (EASTERN REDBUD), 6' HEIGHT, CLUMP FORM, BALLED AND BURLAPPED	EACH	10			10									
B2002666	TREE, MALUS ADAMS (ADAMS CRABAPPLE), 6' HEIGHT, CLUMP FORM, BALLED AND BURLAPPED	EACH	57	5	22	7	12	11							
B2003366	TREE, MALUS DONALD WYMAN (DONALD WYMAN CRABAPPLE), 6' HEIGHT, CLUMP FORM, BALLED AND BURLAPPED	EACH	46		8	24	7	7							
B2006166	TREE, SYRINGA PEKINENSIS MORTON (CHINA SNOW PEKING LILAC), 6' HEIGHT, CLUMP FORM, BALLED AND BURLAPPED	EACH	30	20			5		5						
B2006266	TREE, SYRINGA RETICULATA (JAPANESE TREE LILAC), 6' HEIGHT, CLUMP FORM, BALLED AND BURLAPPED	EACH	19		5	10	4								
C2008224	SHRUB, ROSA NEARLY WILD (NEARLY WILD SHRUB ROSE), 24" HEIGHT, CONTAINER	EACH	100									100			
C2012772	SHRUB, VIBURNUM PRUNIFOLIUM (BLACKHAW VIBURNUM), 6' HEIGHT, BALLED AND BURLAPPED	EACH	4		4										
C2C01424	SHRUB, CORNUS AMOMUM (SILKY DOGWOOD), 2' HEIGHT, CONTAINER	EACH	10							10					
C2C09624	SHRUB, SAMBUCUS CANADENSIS (AMERICAN ELDER), 2' HEIGHT, CONTAINER	EACH	135		15	120									
D2002472	EVERGREEN, PINUS FLEXILIS VANDERWOLF'S PYRAMID (VANDERWOLF'S PYRAMID LIMBER PINE), 6' HEIGHT, BALLED AND BURLAPPED	EACH	5			1				4					
K0013030	PERENNIAL PLANTS, WETLAND TYPE, 2" DIAMETER BY 4" DEEP PLUG	UNIT	162.0	33	6	4	31	25	3				28.0	13.0	19.0
K0013060	PERENNIAL PLANTS, SEDGE MEADOW TYPE, 2" DIAMETER BY 4" DEEP PLUG	UNIT	31.5								19.5	12.0			
K0026850	PERENNIAL PLANT CARE	SQ YD	10,200												
#1009952	TREE, TILIA AMERICANA MCKSENTRY (SENTRY AMERICAN LINDEN/BASSWOOD), 2" CALIPER, BALLED AND BURLAPPED	EACH	31	6	3	5	5		6	6					
#1009997	TREE, ACER RUBRUMNORTHWOOD (NORTHWOOD RED MAPLE), 2" CALIPER, BALLED AND BURLAPPED	EACH	16		6	3		7							
#1009999	TREE, CELTIS OCCIDENTALIS ULZAM (ULTRA COMMON HACKBERRY), 2" CALIPER, BALLED AND BURLAPPED	EACH	16	11		5									

FILE NAME =	USER NAME = jwmiller	DESIGNED - JPW	REVISED -			LANDSCAPING SCHEDULE			SECTION	COUNTY TOTAL SHEET
D160L72-sht-Indscp.dgn		DRAWN - JPW	REVISED -	STATE OF ILLINOIS					2010-081-R	СООК 1045 310
	PLOT SCALE = 1:100	CHECKED - JWM	REVISED -	DEPARTMENT OF TRANSPORTATION						CONTRACT NO. 60L72
\$MODELNAME\$	PLOT DATE = 10/24/2014	DATE - 10/28/14	REVISED -		SCALE:	SHEET 8 OF 8 SHEETS STA.	TO STA.		ILLINOIS FED. A	ID PROJECT

PERENNIAL P	LANT, WETLAND TYPE – ²	162.00 UNITS TOTAL
WETLAND #1	I BUFFER (WEST OF 104TH	AVE) – 10.00 UNITS
ASCLEPIAS INCARNATA	SWAMP MILKWEED	100 EACH
CALAMOGROSTIS CANADENSIS	BLUE JOINT GRASS	100 EACI
EUPATORIUM PERFOLIATUM	COMMON BONESET	100 EAC
GLYCERIA STRIATA	FOWL MANNA GRASS	100 EACI
LEERSIA ORYZOIDES	RICE CUT GRASS	100 EAC
LYCOPUS AMERICANUS	WATER HOREHOUND	100 EAC
LYTHRUM ALATUM	WINGED LOOSESTRIFE	100 EACI
MIMULUS RINGENS	MONKEY FLOWER	100 EACI
PENTHORUM SEDOIDES	DITCH STONECROP	100 EACI
SPARTINA PECTINATA	PRAIRIE CORD GRASS	100 EACI
ASCLEPIAS INCARNATA	1 BUFFER (EAST OF 104TH SWAMP MILKWEED	AVE) - 21.00 UNITS 100 EACI
CALAMOGROSTIS CANADENSIS	BLUE JOINT GRASS	100 EAC
CAREX HYSTERICINA	PORCUPINE SEDGE	100 EAC
CAREX VULPINOIDES	BROWN FOX SEDGE	100 EAC
	SPOTTED JOE PYE WEED	100 EAC
EUPATORIUM PERFOLIATUM	COMMON BONESET	100 EAC
GLYCERIA STRIATA	FOWL MANNA GRASS	100 EAC
IRIS VIRGINICA VAR.SHREVEI	BLUE FLAG IRIS	100 EAC
LEERSIA ORYZOIDES	RICE CUT GRASS	100 EAC
LOBELIA SIPHILITICA	GREAT BLUE LOBELIA	100 EAC
LYCOPUS AMERICANUS	WATER HOREHOUND	100 EACI
LYTHRUM ALATUM	WINGED LOOSESTRIFE	
MIMULUS RINGENS	MONKEY FLOWER	
PANICUM VIRGATUM	SWITCH GRASS	100 EACI
PENTHORUM SEDOIDES	DITCH STONECROP	100 EAC
SAGITTARIA LATIFOLIA	ARROWHEAD	100 EAC
SCIRPUS ACUTUS	HARD-STEMMED BULRUSH	100 EACI
SCIRPUS ATROVIRENS	DARK GREEN RUSH	100 EACI
SCIRPUS PENDULUS	RED BULRUSH	100 EACI
SPARGANIUM EURYCARPUM	COMMON BUR REED	100 EAC
VERBENA HASTATA	HOARY VERVAIN	100 EACI
w	ETLAND #1A BUFFER – 25.0	
ASCLEPIAS INCARNATA	SWAMP MILKWEED	500 EAC
CAREX LACUSTRIS	COMMON LAKE SEDGE	500 EAC
EUPATORIUM PERFOLIATUM	COMMON BONESET	500 EAC
HELIANTHUS GROSSERRATUS	SAW-TOOTHED SUNFLOWER	500 EAC
IRIS VIRGINICA VAR.SHREVEI	BLUE FLAG IRIS	500 EACH

SCHEDUL	E OF PERENIAL PLA	ANTS (CONT.)	
WAT	ER QUALITY BMP #1 – 28. ER QUALITY BMP #2 – 13. ER QUALITY BMP #3 – 19.	00 UNITS	
ASCLEPIAS INCARNATA	SWAMP MILKWEED		400 EACH
CALAMOGROSTIS CANADENSIS	BLUE JOINT GRASS		200 EACH
CAREX HYSTERICINA	PORCUPINE SEDGE		200 EACH
CAREX VULPINOIDES	BROWN FOX SEDGE		200 EACH
EUPATORIUM MACUATUM	SPOTTED JOE PYE WEED		200 EACH
EUPATORIUM PERFOLIATUM	COMMON BONESET		400 EACH
GLYCERIA STRIATA	FOWL MANNA GRASS		200 EACH
IRIS VIRGINICA VAR.SHREVEI	BLUE FLAG IRIS		200 EACH
LEERSIA ORYZOIDES	RICE CUT GRASS		400 EACH
LOBELIA SIPHILITICA	GREAT BLUE LOBELIA		200 EACH
LYCOPUS AMERICANUS	WATER HOREHOUND		400 EACH
LYTHRUM ALATUM	WINGED LOOSESTRIFE		400 EACH
MIMULUS RINGENS	MONKEY FLOWER		400 EACH
PANICUM VIRGATUM	SWITCH GRASS		200 EACH
PENTHORUM SEDOIDES	DITCH STONECROP		400 EACH
SAGITTARIA LATIFOLIA	ARROWHEAD		200 EACH
SCIRPUS ACUTUS	HARD-STEMMED BULRUSH		200 EACH
SCIRPUS ATROVIRENS	DARK GREEN RUSH		200 EACH
SCIRPUS PENDULUS	RED BULRUSH		200 EACH
SPARGANIUM EURYCARPUM	COMMON BUR REED		200 EACH
SPARTINA PECTINATA	PRAIRIE CORD GRASS		400 EACH
VERBENA HASTATA	HOARY VERVAIN		200 EACH
WETLAND #3	BUFFER (FARMED WETL)		
	BLUE FLAG IRIS		200 EACH
SAGITTARIA LATIFOLIA	ARROWHEAD		200 EACH
	ER (SEDGE MEADOW, WET		
ASTER LATERIFLORUS	SIDE-FLOWERING ASTER		150 EACH
SPARTINA PECTINATA	PRAIRIE CORD GRASS		150 EACH
WETLAND #7 BUFFEF	•	L ND- NORTH) – 22.00 UNITS	
ASCLEPIAS INCARNATA	SWAMP MILKWEED		250 EACH
ASTER LATERIFLORUS	SIDE-FLOWERING ASTER		250 EACH
EUPATORIUM RUGOSUM	WHITE SNAKEROOT		250 EACH
LEERSIA ORYZOIDES	RICE CUT GRASS		250 EACH
RUDBECKIA LACINIATA	WILD GOLDEN GLOW		250 EACH
SCIRPUS CYPERINUS	WOOL GRASS		250 EACH
SCUTELLARIA LATERIFOLIA	MAD-DOG SKULLCAP		250 EACH
SPARTINA PECTINATA	PRAIRIE CORD GRASS		450 EACH

NOTE: ALL PERENNIAL PLANTS SHALL BE INTERMIXED, STAGGERED AND SPACED AS NOTED ON PLANS.

FILE NAME =	USER NAME = jwmiller	DESIGNED - JPW	REVISED -					F.AP. RTE.	SECTION	COUNTY	TOTAL SHEET SHEETS NO.
D160L72-sht-Indscp.dgn		DRAWN - JPW	REVISED -	STATE OF ILLINOIS	LANDSCAPING SCHEDULE			351	2010-081-R	СООК	1045 311
	PLOT SCALE = 1:100	CHECKED - JWM	REVISED -	DEPARTMENT OF TRANSPORTATION						CONTRACT	NO. 60L72
\$MODELNAME\$	PLOT DATE = 10/24/2014	DATE - 10/28/14	REVISED -		SCALE:	SHEET 8 OF 8 SHEETS STA.	TO STA.	ILLINOIS FED. AID PROJE			

WETLAND #7 BU	FFER (SPRING CREEK WETLA	ND-SOUTH) – 11.00 UNITS
ASCLEPIAS INCARNATA	SWAMP MILKWEED	100 EAC
ASTER LATERIFLORUS	SIDE-FLOWERING ASTER	100 EA0
EUPATORIUM RUGOSUM	WHITE SNAKEROOT	100 EA
LEERSIA ORYZOIDES	RICE CUT GRASS	100 EA
RUDBECKIA LACINIATA	WILD GOLDEN GLOW	100 EA
SCIRPUS CYPERINUS	WOOL GRASS	100 EA
SCUTELLARIA LATERIFOLIA	MAD-DOG SKULLCAP	100 EA
SPARTINA PECTINATA	PRAIRIE CORD GRASS	400 EA
WE	TLAND #12 BUFFER (MARSH)	– 3.00 UNITS
ASCLEPIAS INCARNATA	SWAMP MILKWEED	100 EA
ASTER NOVAE-ANGLIAE	NEW ENGLAND ASTER	100 EA
CAREX LACUSTRIS	COMMON LAKE SEDGE	100 EA
WETLAND #13	BUFFER (FARMED WETLAND,	WOLF RD) - 3.00 UNITS
HIBISCUS PALUSTRIS	SWAMP ROSE MALLOW	150 EA
SCIRPUS FLUVIATILIS	RIVER BULRUSH	150 EA

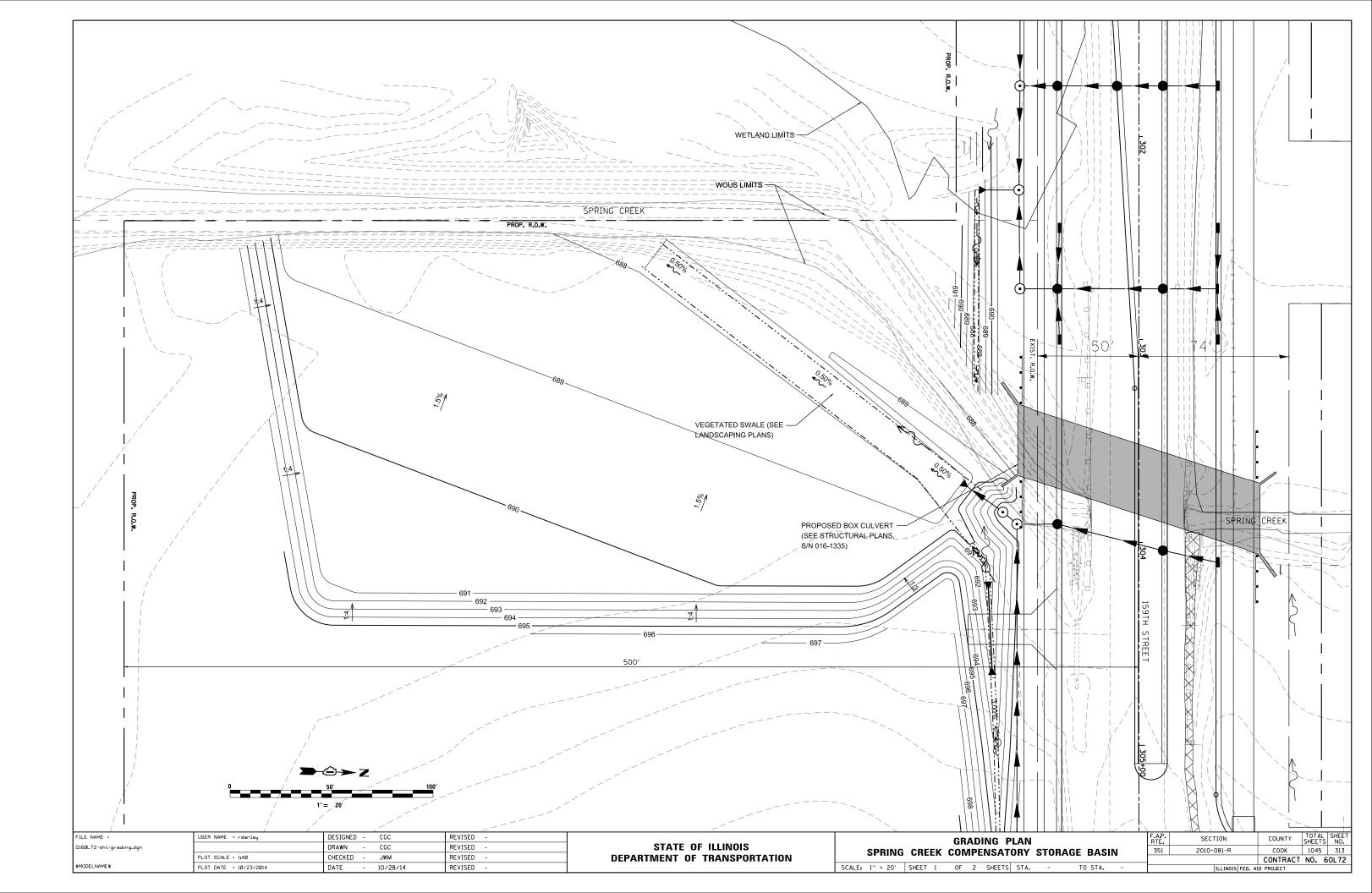
CARE CALENDAR
TIME
MAY 1 - JUNE 15 AUGUST 15 - SEPTEMBER 15
24 HOURS AFTER PLANTING
PRIOR TO PERIOD OF ESTABLISHMENT INSPECTION
WITHIN 30 DAYS AFTER PLANTING
AFTER PERIOD OF ESTABLISHMENT INSPECTION
30 DAYS AFTER PERIOD OF ESTABLISHMENT INSPECTION
60 DAYS AFTER PERIOD OF ESTABLISHMENT INSPECTION
90 DAYS AFTER PERIOD OF ESTABLISHMENT INSPECTION
USE AFTER PERIOD OF EST. INSP. AS DIRECTED BY RESIDENT ENGINEER

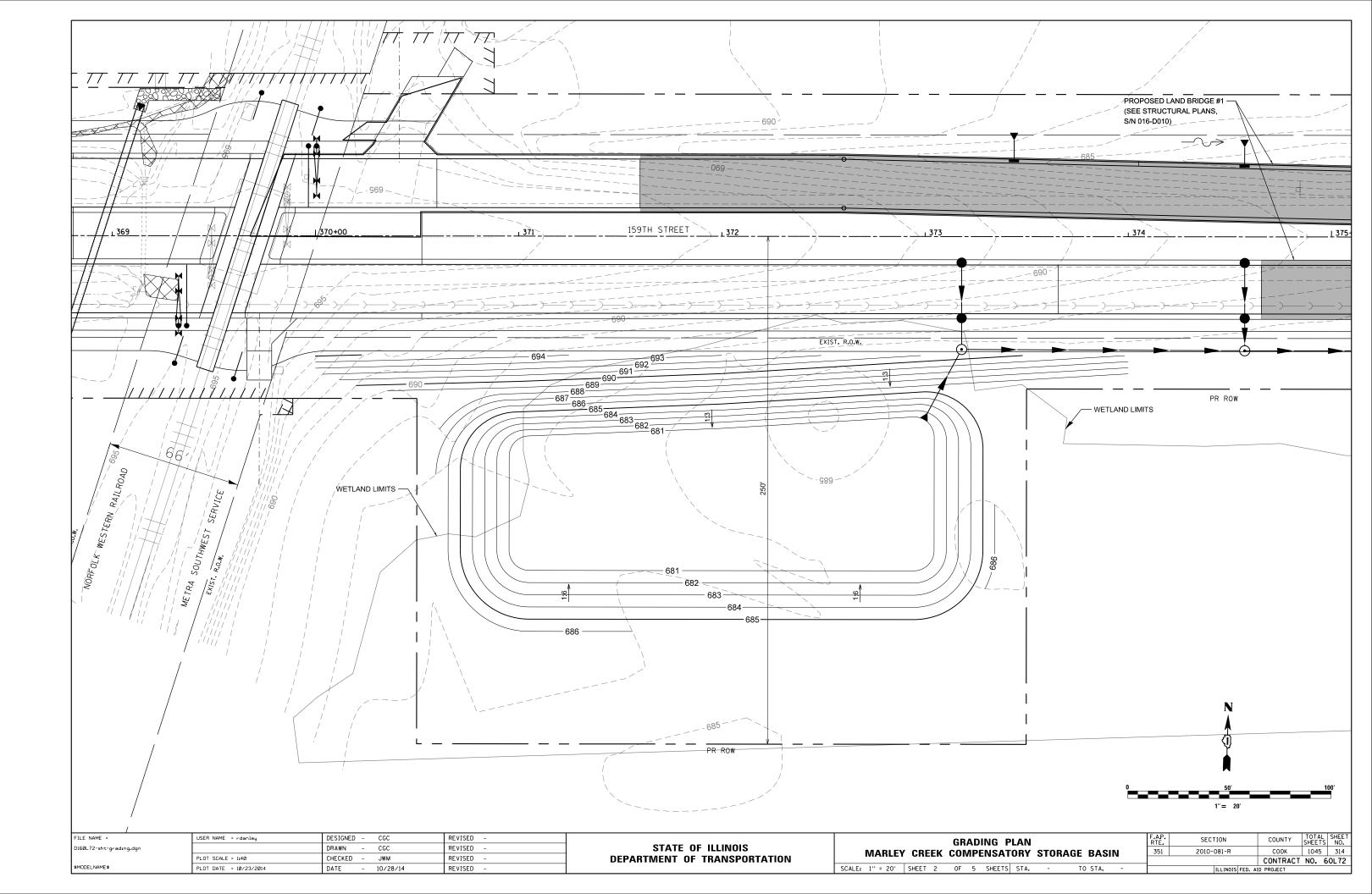
SCHE	EDULE OF PERENIAL PLANTS (C	CONT.)
PERENIAL P	LANT, SEDGE MEADOW TYPE - 31.50	UNITS TOTAL
	WATER QUALITY BMP #4 – 12.00 UNITS	5
CAREX VULPINOIDEA	BROWN FOX SEDGE	200 EACH
JUNCUS TORREYI	TORREY'S RUSH	200 EACH
LEERSIA ORYZOIDES	RICE CUT GRASS	200 EACH
SCIRPUS ACUTUS	HARD-STEMMED BULRUSH	200 EACH
SCIRPUS VALIDUS	GREAT BULRUSH	200 EACH
SPARTINA PECTINATA	PRAIRIE CORD GRASS	200 EACH
WATER QUALIT	Y SWALE WEST OF SPRING CREEK BMF	₽ #5 – 4.50 UNITS
CAREX VULPINOIDEA	BROWN FOX SEDGE	50 EACH
JUNCUS TORREYI	TORREY'S RUSH	50 EACH
LEERSIA ORYZOIDES	RICE CUT GRASS	50 EACH
SCIRPUS ACUTUS	HARD-STEMMED BULRUSH	100 EACH
SCIRPUS VALIDUS	GREAT BULRUSH	100 EACH
SPARTINA PECTINATA	PRAIRIE CORD GRASS	100 EACH
	WATER QUALITY BMP #5 – 15.00 UNITS	5
CAREX VULPINOIDEA	BROWN FOX SEDGE	250 EACH
JUNCUS TORREYI	TORREY'S RUSH	250 EACH
LEERSIA ORYZOIDES	RICE CUT GRASS	250 EACH
SCIRPUS ACUTUS	HARD-STEMMED BULRUSH	250 EACH
SCIRPUS VALIDUS	GREAT BULRUSH	250 EACH
SPARTINA PECTINATA	PRAIRIE CORD GRASS	250 EACH

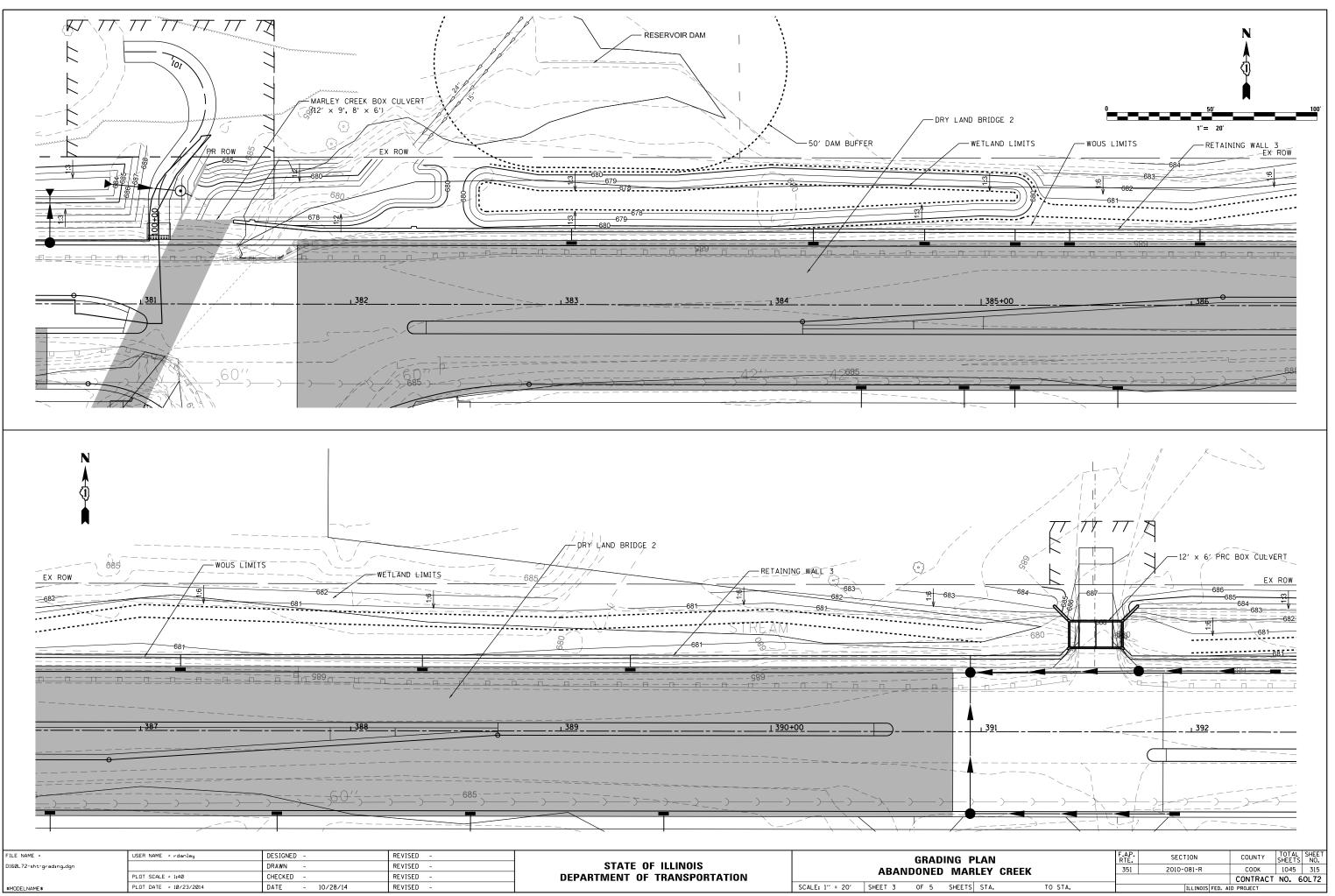
NOTE:

ALL PERENNIAL PLANTS SHALL BE INTERMIXED, STAGGERED AND SPACED AS NOTED ON PLANS.

FILE NAME =	USER NAME = jwmiller	DESIGNED - JPW	REVISED -						SECTION	COUNTY TOT	TAL SHEET
D160L72-sht-lndscp.dgn		DRAWN - JPW	REVISED -	STATE OF ILLINOIS		LANDSCAPING SCHEDULE		351	2010-081-R	СООК 104	45 312
	PLOT SCALE = 1:100	CHECKED - JWM	REVISED -	DEPARTMENT OF TRANSPORTATION						CONTRACT NO.	. 60L72
\$MODELNAME\$	PLOT DATE = 10/24/2014	DATE - 10/28/14	REVISED -		SCALE:	SHEET 8 OF 8 SHEETS STA.	TO STA.		ILLINOIS FED. A	ID PROJECT	

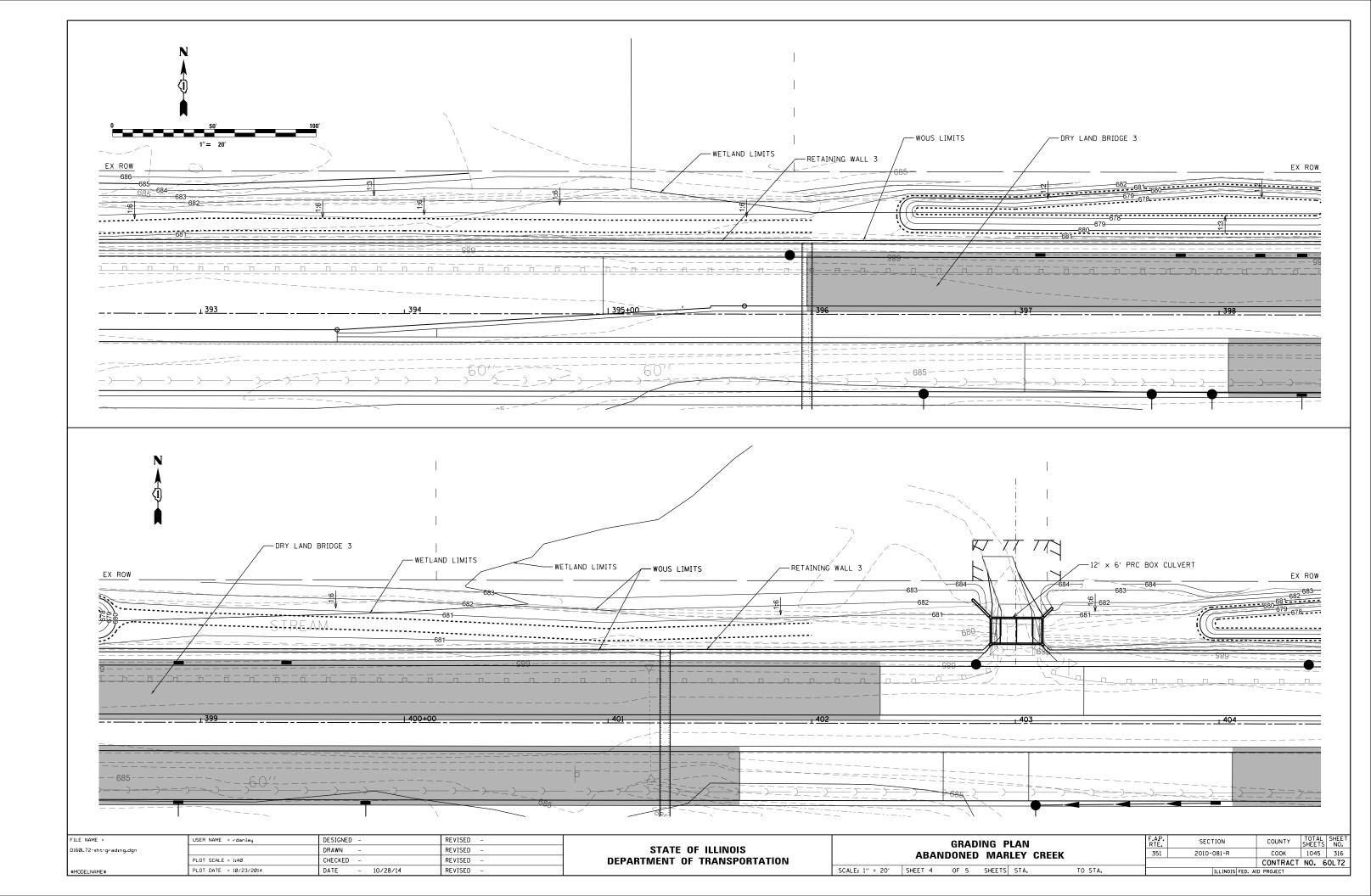


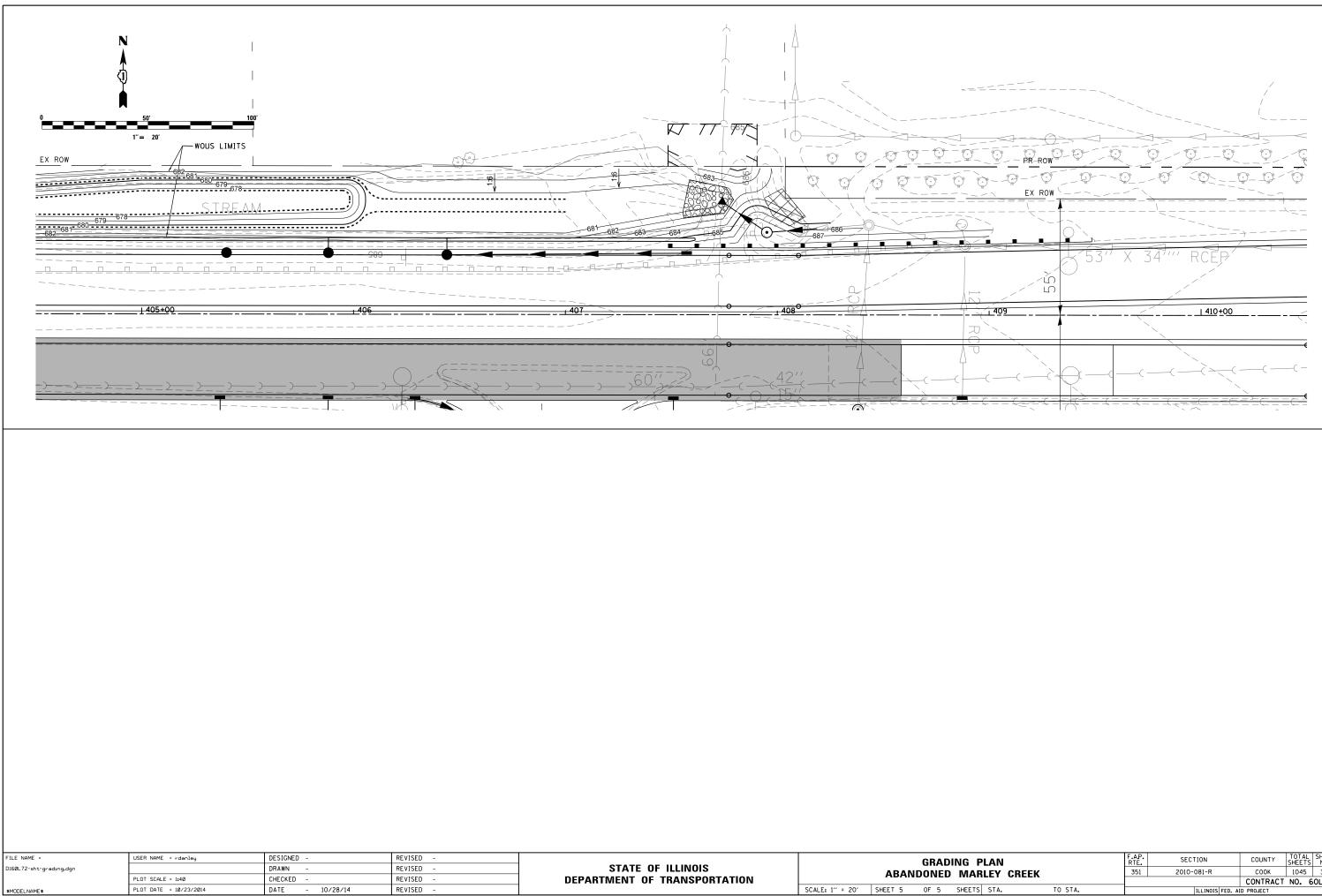




D160L72-sht-grading.dgn		DRAWN -	REVISED -	STATE OF ILLINOIS		ABAN	DONE
	PLOT SCALE = 1:40	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION		ADAN	DONEI
\$MODELNAME\$	PLOT DATE = 10/23/2014	DATE - 10/28/14	REVISED -		SCALE: 1" = 20'	SHEET 3	0F 5

D	MAK	LEY C	KEEK L	201	2010-0	7-10U		COOK	1045	5
_								CONTRACT	NO.	60L
	SHEETS	STA.	TO STA.			ILLINOIS	FED. AI	D PROJECT		





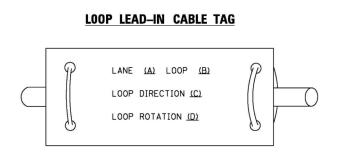
PLAN ARLEY CREEK		F.AP. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.		
		351	2010-081-R	СООК	1045	317		
				NO. 6	0L72			
TS	STA.	TO STA.	ILLINOIS FED. AID PROJECT					

TRAFFIC SIGNAL LEGEND

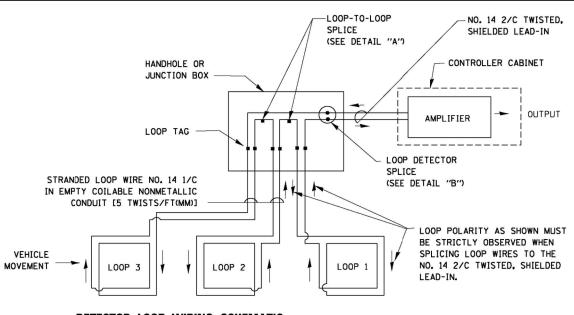
	OT SCALE = 50.0000 '/ in. OT DATE = 1/13/2014		CHECKED - DAD DATE - 10-28-09	REVISED - REVISED -	DEPARTMENT (OF TRANSPO	ORTATION	SCALE: NOM	STANDARD TRAFFIC SIGNAL DESIGN DETAILS NE SHEET NO. 1 OF 7 SHEETS STA. TO STA.		TS-05 D DIST. NO. 1 ILLINOIS FE	CONTRACT NO. 60L72
FILE NAME = US c:\pw_work\pwidot\footemj\d0108315\ts05.dgn	ER NAME = footemj		DESIGNED - DAG/BCK DRAWN - BCK	REVISED - REVISED -	DAG 1-1-14 STATE	OF ILLINO	s		DISTRICT ONE	F.A.P. RTE. 351	SECTION 2010-081-R	COUNTY TOTAL SHEET NO. 1045 318
WIRELESS ACCESS POINT		R			GROUND CABLE IN CONDUIT NO. 6 SOLID COPPER (GREEN)		(1)	(1)	CROSSBUCK		¥	₩ TS-1
WIRELESS DETECTOR SENSOR		RW	(\mathbb{W})	W	ALL DETECTOR LOOP CABLE TO BE SHIELDED		فر		CROSSING GATE		X oX >	XoX
PAN, TILT, ZOOM CAMERA		R PTZD	प्रिय	PZ	DENOTES NUMBER OF CONDUCTORS, ELECTRIC CABLE NO. 14, UNLESS NOTED OTHERWISE,		-5-		FLASHING SIGNAL		XoX	XoX
VIDEO DETECTION ZONE		5			RADIO REPEATER	RERR	ERR	RR	RAILROAD CANTILEVER MAST ARM	Σ	XOX X X	XeI X
VIDEO DETECTION CAMERA		R [V]⊅			RADIO INTERCONNECT	- ^R O			RAILROAD CONTROL CABINET			
MICROWAVE VEHICLE SENSOR		R R			SYMBOL, WITH COUNTDOWN TIMER		C C D	♥ C ★ D			EXISTING	PROPOSED
PREFORMED DETECTOR LOOP		R	9	P	INTERNATIONAL SYMBOL, SOLID PEDESTRIAN SIGNAL HEAD, INTERNATIONAL				RAILROAD	91 MIBC	129	
DETECTOR LOOP, TYPE I			œ−− ə	└_ ← •	12" (300mm) PEDESTRIAN SIGNAL HEAD			P		CVMD/	N C	
"NO RIGHT TURN"		®			12" (300mm) PEDESTRIAN SIGNAL HEAD INTERNATIONAL SYMBOL, OUTLINED				PREFORMED SAMPLING (SYSTEM) DETECTOR			PS
"NO LEFT TURN" ILLUMINATED SIGN		R	8	•	12" (300mm) PEDESTRIAN SIGNAL HEAD WALK/DON'T WALK SYMBOL		C W		PREFORMED INTERSECTION AND SAMPLING (SYSTEM) DETECTOR		PIS	PIS
ACCESSIBLE PEDESTRIAN PUSHBU	DITON DETECTOR	@ APS	@aps	() APS	"RB" INDICATES REFLECTIVE BACKPLATE			∢ G	PREFORMED QUEUE DETECTOR		Î POÎ	PQ
PEDESTRIAN PUSHBUTTON DETEC		^R ©	6	(a)	"P" INDICATES PROGRAMMED HEAD		C(F)	G ∢Y	QUEUE DETECTOR			Q
PEDESTRIAN SIGNAL HEAD			-0	-1	SIGNAL FACE WITH BACKPLATE.		RY	R	SAMPLING (SYSTEM) DETECTOR			S
(S DENOTES SOLAR POWER)		O-₽>"F"	O-⊅ ^{′′} F′′	● → ″ ^F ″			ŧ	€G	INTERSECTION & SAMPLING (SYSTEM) DETECTOR			IS
SIGNAL HEAD OPTICALLY PROGRA	AMMED	R →⊃″₽″	->''P''	→ "P"	SIGNAL FACE			G ◀ Y	TO BE REMOVED	RPF		
SIGNAL HEAD WITH BACKPLATE			\dashv	+►			K K	Y	SIGNAL POST AND FOUNDATION	225		
SIGNAL HEAD CONSTRUCTION ST. (NUMBERS INDICATE THE CONSTR		-		→ ²	YELLOW AND GREEN TRAFFIC SIGNAL FACE			R	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH LUMINAIRE AND FOUNDATION TO BE REMOVED	RMF O−≭───		
SIGNAL HEAD		° R_	$\neg \triangleright$	-	12" (300mm) RED WITH 8" (200mm)		R		ALUMINUM MAST ARM POLE AND FOUNDATION TO BE REMOVED	RMF O		
GUY WIRE		>R	>	\succ	12" (300mm) TRAFFIC SIGNAL SECTION	0	R	R	FOUNDATION TO BE REMOVED	0		
TEMPORARY WOOD POLE (CLASS BETTER) 45 FOOT (13.7m) MINIM		R⊗	\otimes	\odot	RELOCATE ITEM	RL			STEEL MAST ARM POLE AND	RMF		
SIGNAL POST		RO	0	•	REMOVE ITEM	R			CONTROLLER CABINET AND FOUNDATION TO BE REMOVED	RCF		
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH PTZ	CAMERA		Q P证A	PIL	INTERSECTION ITEM		I	IP	(H) HANDHOLE, (P) POST, (M) MAST ARM, OR (S) SERVICE			
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH LUMI	NAIRE	°	0-¤	• × —	COILABLE NONMETALLIC CONDUIT (EMPTY) SYSTEM ITEM		S	CNC S	GROUND ROD AT (C) CONTROLLER,		с _і	°⊪⊢⊷
ALUMINUM MAST ARM ASSEMBLY	AND POLE	2	0		COMMON TRENCH			СТ	FIBER OPTIC CABLE NO. 62.5/125, MM12F SM24F		—36F—	-36F
STEEL MAST ARM ASSEMBLY AND	POLE R	<u>`</u>	0	•	AND CABLE	<u></u>			NO. 62.5/125, MM12F SM12F		-	
TELEPHONE CONNECTION (P) POLE OR (G) GROUND MOUNT		R	P	P T	GALVANIZED STEEL (UC) TEMPORARY SPAN WIRE, TETHER WIRE,	D			FIBER OPTIC CABLE		-24F	-245-
SERVICE INSTALLATION, (P) POLE OR (G) GROUND MOUNT		R	- - 	- ■ ^P	JUNCTION BOX UNDERGROUND CONDUIT,	\square	Ø	0	FIBER OPTIC CABLE NO. 62.5/125, MM12F			
UNINTERRUPTABLE POWER SUPPL	Y	UPS	EUPS	UPS	DOUBLE HANDHOLE	R 🖸			COPPER INTERCONNECT CABLE, NO. 18 3 PAIR TWISTED, SHIELDED		-6-	6
MASTER MASTER CONTROLLER		R	EMMC	MMC	HEAVY DUTY HANDHOLE	RH	Η	Η	VENDOR CABLE FOR CAMERA			—V)—
MASTER CONTROLLER		<u> </u>	EMC	MC	HANDHOLE						\sim	
COMMUNICATIONS CABINET		CCR	ECC	CC		R	-		COAXIAL CABLE		— <u>c</u>	—©—
RAILROAD CONTROL CABINET		\bowtie			CONFIRMATION BEACON	Ro-O	~~(н	NO. 14 1/C, UNLESS NOTED OTHERWISE			
									ELECTRIC CABLE IN CONDUIT, TRACER,	REMOTRE		
ITEM CONTROLLER CABINET			EXISTING	PROPOSED	ITEM EMERGENCY VEHICLE LIGHT DETECTOR	REMOVAL	EXISTING	PROPOSED		REMOVAL	EXISTING	<u>PROPOSED</u>

LOOP DETECTOR NOTES

- 1. EACH PAIR OF LOOP WIRES SHALL BE PLACED IN A SEPARATE EMPTY COILABLE NONMETALLIC CONDUIT FROM THE EDGE OF PAVEMENT TO THE HANDHOLE. SPACING BETWEEN THE HOLES DRILLED IN THE PAVEMENT SHALL NOT BE LESS THAN 6" (150 mm). EMPTY COILABLE NONMETALLIC CONDUIT SHALL BE INCLUDED IN THE COST OF THE LOOP WIRE.
- 2. THE NUMBER OF LOOP TURNS SHALL BE AS RECOMMENDED BY THE AMPLIFIER MANUFACTURER. ALL ADJACENT SIDES OF THE LOOPS SHALL BE INSTALLED IN SUCH A WAY THAT THE CURRENT FLOW IS IN THE SAME DIRECTION TO REINFORCE ITS MAGNETIC FIELDS FOR SMALL VEHICLE DETECTION.
- 3. EACH LOOP LEAD-IN SHALL BE IDENTIFIED AND PERMANENTLY TAGGED IN THE HANDHOLE. EACH LEAD-IN CABLE TAG SHALL INDICATE THE LOCATION OF THE LOOP, LOOP ROTATION (CLOCKWISE/COUNTERCLOCKWISE), LOOP LEAD-IN DIRECTION (IN OR OUT), LOOP CABLE NUMBER AND LOCATION IN CABINET, AND NUMBER OF TURNS IN THE DETECTOR LOOPS IN WATER PROOF INK AS INDICATED ON THE DISTRICT 1 STANDARD TRAFFIC SIGNAL DESIGN DETAIL. THE CONTRACTOR SHALL MARK LOOP LOCATIONS ON RECORD DRAWINGS AND PRESENT TO THE ENGINEER AFTER FINAL INSPECTION. LOOPS SHALL BE MARKED BY LANE AND LOOP NUMBER. SEE DETAIL BELOW.
- 4. ALL LOOP CABLE SHALL BE FASTENED WITH PLASTIC TIE WRAP TO THE HANDHOLE HOOKS.
- 5. IN ASPHALT PAVEMENT, LOOPS SHOULD BE PLACED IN THE BINDER AND DIVEHOLES MARKED AT THE CURB WITH A SAW-CUT. THE SAW-CUT SHALL BE CUT IN ACCORDANCE WITH LOCAL AND E.P.A. DUST CONTROL REQUIREMENTS. DETECTOR LOOP(S) SHALL NOT BE INSTALLED IN WET CONDITIONS AND THE SAW-CUTS MUST BE FREE OF DEBRIS AND RESIDUE SUCH AS DUST AND WATER WHICH IS TO BE ACHIEVED BY THE USE OF COMPRESSED AIR, WIRE BRUSHING AND HEAT DRYING ACCORDING TO SEALANT MANUFACTURER REQUIREMENTS. THE DETECTOR WIRE SHALL BE HELD IN PLACE BY THE USE OF FORM WEDGES. WEDGES SHALL BE SPACED NO MORE THAN 18" (450 mm) APART.
- 6. LOOP SPLICES SHALL BE SOLDERED USING A SOLDERING IRON. BLOW TORCHES OR OTHER DEVICES WHICH OXIDIZE COPPER CABLE SHALL NOT BE ALLOWED FOR SOLDERING OPERATIONS. SEE DETAIL BELOW RIGHT.
- 7. PREFORMED DETECTOR LOOPS SHALL BE USED, AS SHOWN ON THE PLANS, WHERE NEW CONCRETE PAVEMENT IS PROPOSED. THE INSTALLATION OF PREFORMED LOOPS SHALL BE IN ACCORDANCE WITH THE DISTRICT 1 SPECIFICATIONS OR AS DIRECTED BY THE ENGINEER.

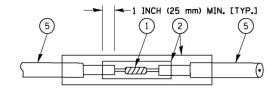


- A. LANE 1 IS THE LANE CLOSEST TO THE CENTERLINE OF THE ROADWAY
- B. LOOP #1 IS THE LOOP IN THE LANE CLOSEST TO THE INTERSECTION.
- C. LABEL LOOP CABLE "IN" OR LOOP CABLE "OUT".
- D. LABEL LOOP CABLE CLOCKWISE OR LOOP CABLE COUNTERCLOCKWISE.

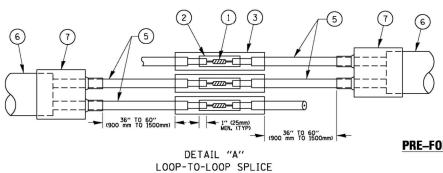


DETECTOR LOOP WIRING SCHEMATIC

- LOOPS SHALL BE SPLICED IN SERIES.
- SAW-CUTS SHALL BE A MINIMUM WIDTH OF 5/16" (8 mm).
- SAW-CUT DEPTHS SHALL BE 3" (75 mm). IF IN CONCRETE, THE SAW-CUT DEPTH SHALL BE TO THE TOP OF THE REINFORCEMENT.
- LOOP CORNERS SHALL BE DRILLED WITH A 2" (50 mm) DIAMETER CORE.



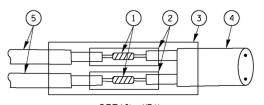
DETAIL "A" LOOP-TO-LOOP SPLICE



LOOP DETECTOR SPLICE

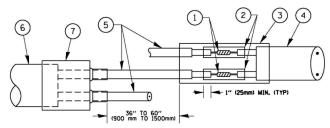
- (1) WESTERN UNION SPLICE SOLDERED WITH ROSIN CORE FLUX. ALL EXPOSED SUF OF THE SOLDER SHALL BE SMOOTH. THE WESTERN UNION SPLICES SHALL BE S
- (2) WCSMW 30/100 HEAT SHRINK TUBE, MINIMUM LENGTH 3" (75 mm), UNDERWATER
- (3) WCS 200/750 HEAT SHRINK TUBE, MINIMUM LENGHT 6" (150 mm), UNDERWATER
- (4) NO. 14 2/C TWISTED, SHIELDED CABLE.

									13-2
FILE NAME =	USER NAME = footemj	DESIGNED - DAD	REVISED - DAG 1-1-14			DISTRICT ONE	F.A.P. RTF	SECTION	COUNTY TOTAL SHEET
c:\pw_work\pw1dot\footemj\d0108315\ts05.	dgn	DRAWN - BCK	REVISED -	STATE OF ILLINOIS			351	2010-081-R	1045 319
	PLOT SCALE = 50.0000 '/ in.	CHECKED - DAD	REVISED -	DEPARTMENT OF TRANSPORTATION		STANDARD TRAFFIC SIGNAL DESIGN DETAILS		TS05	CONTRACT NO. 60L72
	PLOT DATE = 1/13/2014	DATE - 10-28-09	REVISED -		SCALE: NONE	SHEET NO. 2 OF 7 SHEETS STA. TO STA.	FED. ROAD	DIST. NO. 1 ILLINOIS FED. A	



DETAIL "B" LOOP-TO-CONTROLLER SPLICE

TYPE | LOOP

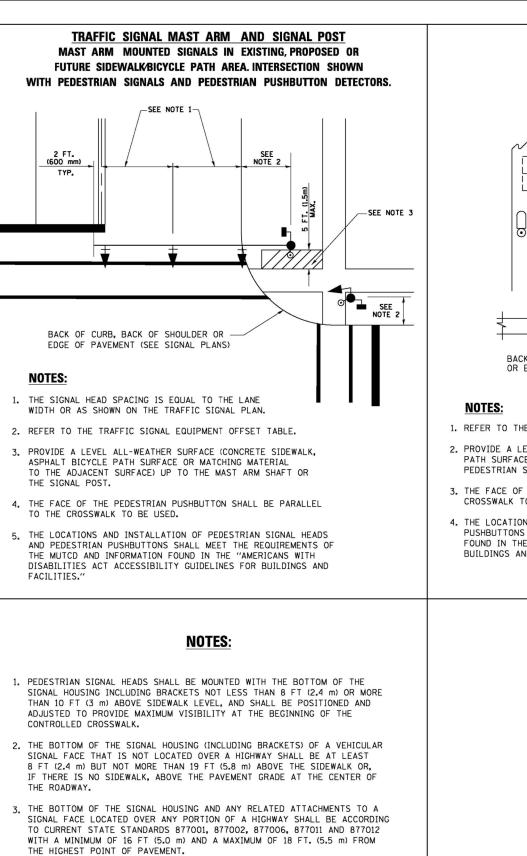


PRE-FORMED LOOP

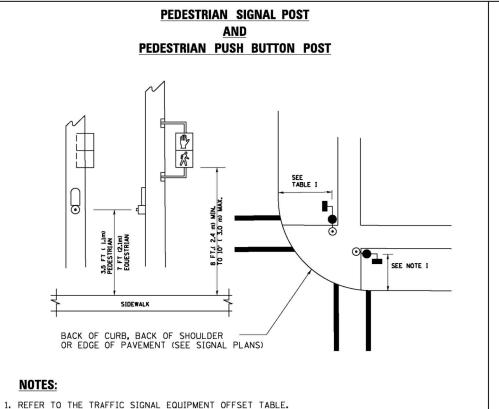
DETAIL "B" LOOP-TO-CONTROLLER SPLICE

TC 2

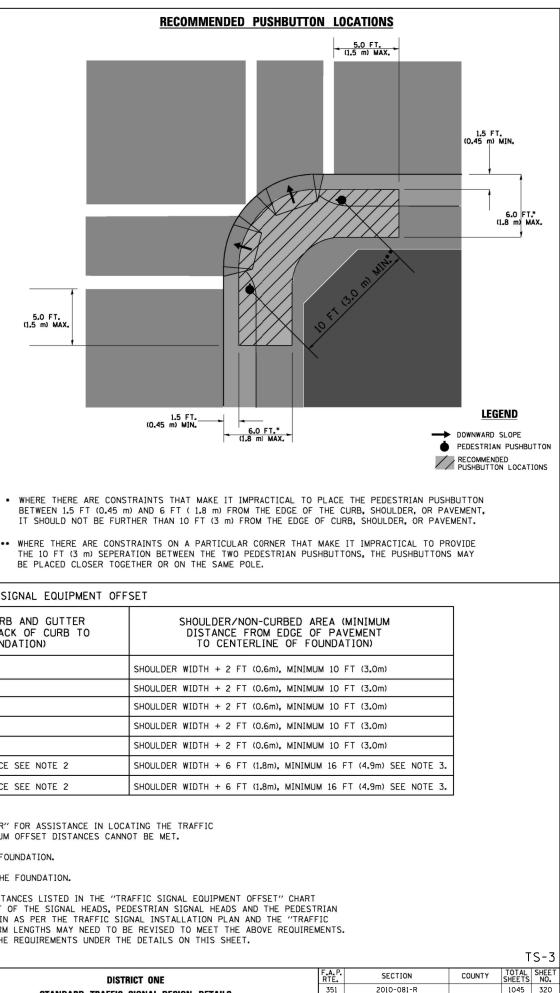
	5 LOOP CONDUCTOR WITH FLEXIBLE PLASTIC TUBE.
STAGGERED.	6 PRE-FORMED LOOP
R GRADE.	
R GRADE.	T XL POLYOLEFIN 2 CONDUCTOR BREAKOUT SEALS. TYCO CBR-2 OR APPROVED EQUAL



- 4. THE BOTTOM OF THE TEMPORARY SPAN WIRE MOUNTED SIGNAL HOUSING AND ANY RELATED ATTACHMENTS TO A SIGNAL FACE LOCATED OVER ANY PORTION OF A HIGHWAY SHALL BE ACCORDING TO CURRENT STATE STANDARD 880001 WITH A MINIMUM OF 17 FT (5.18 m) FROM THE HIGHEST POINT OF PAVEMENT.
- 5. THE TOP OF THE SIGNAL HOUSING OF A SIGNAL FACE LOCATED OVER ANY PORTION OF A HIGHWAY SHALL NOT BE MORE THAN 25.6 FT (7.8 m) ABOVE THE PAVEMENT.



- 2. PROVIDE A LEVEL ALL-WEATHER SURFACE (CONCRETE SIDEWALK, ASPHALT BICYCLE PATH SURFACE OR MATCHING MATERIAL TO THE ADJACENT SURFACE) UP TO THE PEDESTRIAN SIGNAL POST OR THE PEDESTRIAN PUSH BUTTON POST.
- 3. THE FACE OF THE PEDESTRIAN PUSHBUTTON SHALL BE PARALLEL TO THE CROSSWALK TO BE USED.
- 4. THE LOCATIONS AND INSTALLATION OF PEDESTRIAN SIGNAL HEADS AND PEDESTRIAN PUSHBUTTONS SHALL MEET THE REQUIREMENTS OF THE MUTCD AND INFORMATION FOUND IN THE "AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES FOR BUILDINGS AND FACILITIES."



TRAFFIC SIGNAL EQUIPMENT OFFSET

TRAFFIC SIGNAL EQUIPMENT	COMBINATION CONCRETE CURB AND GUTTER (MINIMUM DISTANCE FROM BACK OF CURB TO CENTERLINE OF FOUNDATION)	
TRAFFIC SIGNAL MAST ARM POLE	6 FT (1.8m)	SHOUL
TRAFFIC SIGNAL POST	4 FT (1.2m)	SHOUL
PEDESTRIAN SIGNAL POST	4 FT (1.2m)	SHOUL
PEDESTRIAN PUSHBUTTON POST	4 FT (1.2m)	SHOUL
TEMPORARY WOOD POLE	6 FT (1.8m)	SHOUL
CONTROLLER CABINET	6 FT (1.8m) MINIMUM DISTANCE SEE NOTE 2	SHOUL
SERVICE INSTALLATION, GROUND MOUNT	6 FT (1.8m) MINIMUM DISTANCE SEE NOTE 2	SHOUL

NOTES:

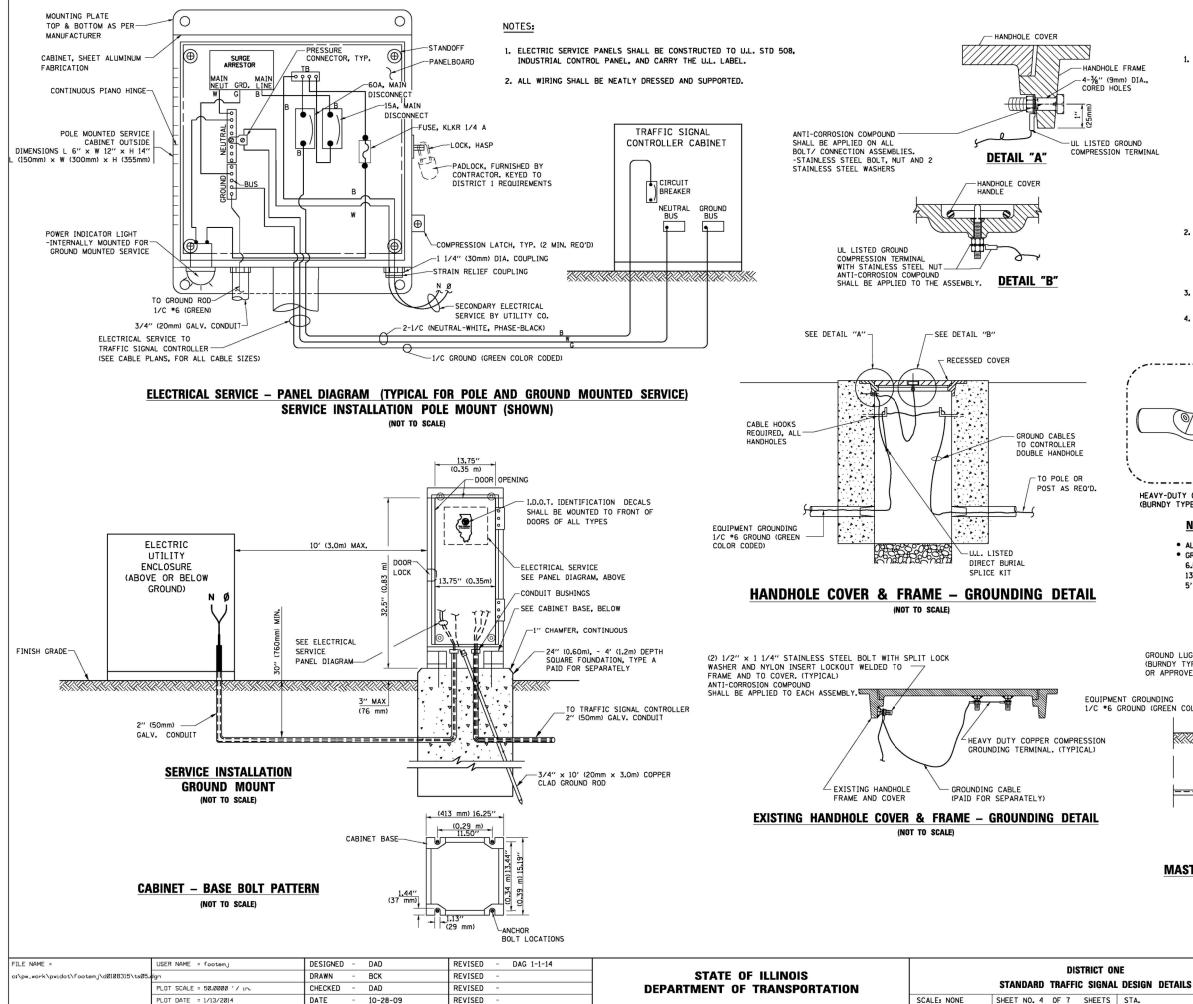
- 1. CONTACT THE "AREA TRAFFIC SIGNAL MAINTENANCE AND OPERATIONS ENGINEER" FOR ASSISTANCE IN LOCATING THE TRAFFIC SIGNAL EQUIPMENT WHEN THERE ARE CONFLICTS WITH DITCHES OR THE MINIMUM OFFSET DISTANCES CANNOT BE MET.
- 2. MINIMUM DISTANCE FROM THE BACK OF CURB TO THE ROADWAY SIDE OF THE FOUNDATION.
- 3. MINIMUM DISTANCE FROM THE EDGE OF PAVEMENT TOTHE ROADWAY SIDE OF THE FOUNDATION.
- 4. ANY CHANGES TO THE OFFSETS OF THE FOUNDATIONS, FROM THE MINIMUM DISTANCES LISTED IN THE "TRAFFIC SIGNAL EQUIPMENT OFFSET" CHART AND THE TRAFFIC SIGNAL INSTALLATION PLAN, COULD EFFECT THE PLACEMENT OF THE SIGNAL HEADS, PEDESTRIAN SIGNAL HEADS AND THE PEDESTRIAN PUSHBUTTONS. THE SIGNAL HEAD PLACEMENT ON THE MAST ARMS SHALL REMAIN AS PER THE TRAFFIC SIGNAL INSTALLATION PLAN AND THE "TRAFFIC SIGNAL MAST ARM AND SIGNAL POST" DETAIL ABOVE. THE PROPOSED MAST ARM LENGTHS MAY NEED TO BE REVISED TO MEET THE ABOVE REQUIREMENTS. THE PEDESTRIAN SIGNAL HEADS AND PEDESTRIAN PUSHBUTTONS MUST MEET THE REQUIREMENTS UNDER THE DETAILS ON THIS SHEET.

ESIGN DETAILS
TA. TO

1045 320 CONTRACT NO. 60L72

TS-05

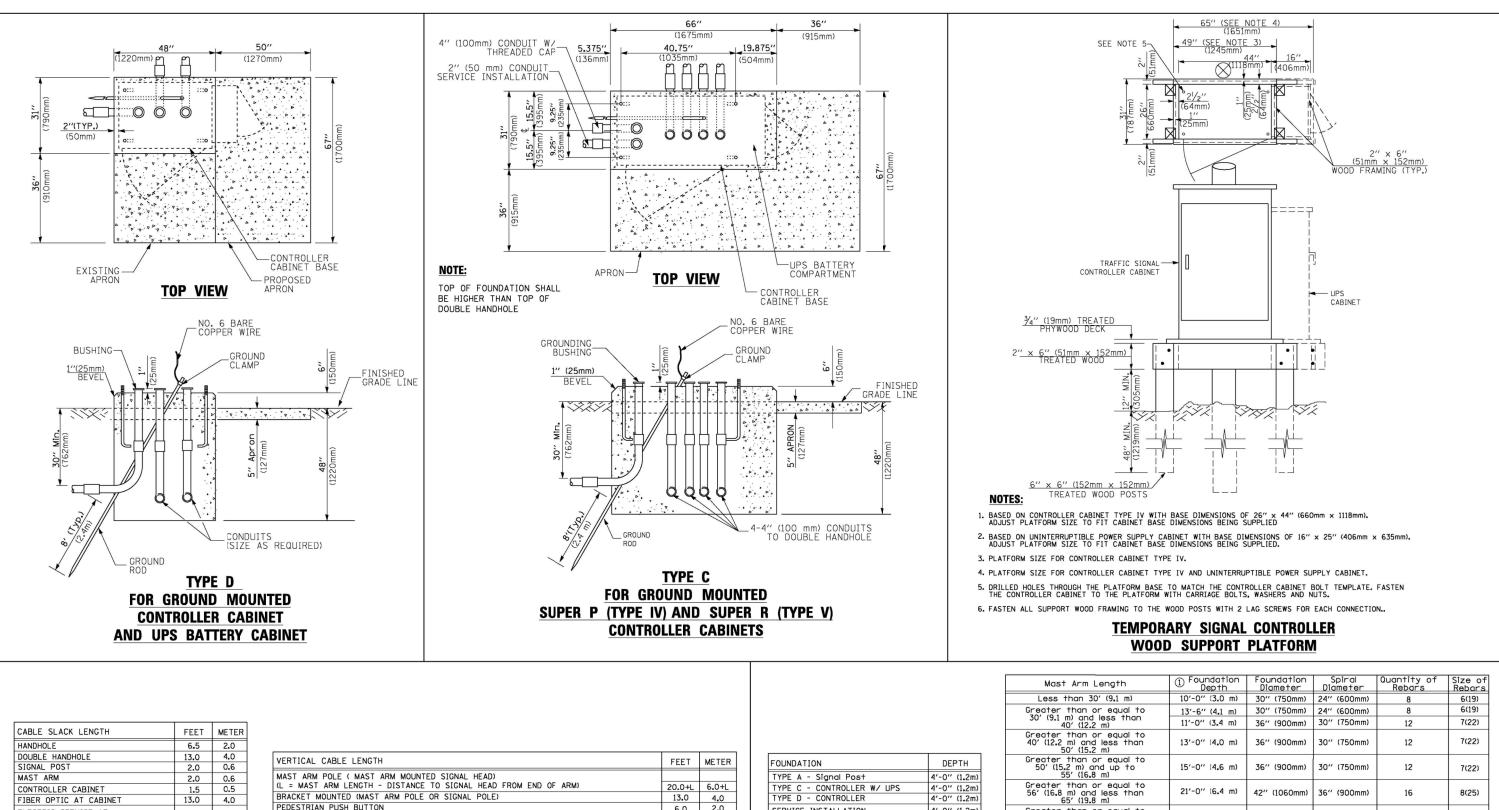
TO STA. FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT



<u>NOTES:</u> <u>GROUNDING SYSTEM</u>

DLE FRAME (9mm) DIA., HOLES D GROUND JON TERMINAL	TYPE XLP, NO. 6 RACEWAYS. THE (IN A CONTINUOUS ALL GROUNDING ((HANDHOLE, POST 3/4" DIA. × 10'- SHALL BE INSTAI CONTROLLER CAB AS INDICATED ON SUCH AS SUB-SU ENGINEER SHALL ILLINOIS DEPART (847) TO5-4139. 2. THE NEUTRAL CO CONNECTED IN TH IN THE TRAFFIC CONDUCTORS BE 3. ALL EQUIPMENT IN IN THE CONTROLI 4. THE CONTRACTOR	A.W.G., STRA GROUNDING CA S MANNER AS CONDUCTORS : , MAST ARM, O" (20mm x LED AT ALL INET FOUNDA'N N THE CABLE RFACE CONDI' BE NOTIFIED MENT OF TRA NDUCTOR AND HE SERVICE I SIGNAL SYST CONNECTED. GROUNDING COLER CABINET.	L CONSIST OF AN INSULA ANDED COPPER TO BE INS ABLE SHALL BE INSTALLEI SHOWN ON THE CABLE PI SHALL BE BONDED TO ME CONTROLLER, ETC., GROU JODN, COPPER CLA POST FOUNDATIONS, POLI TION AND ELECTRICAL SE PLAN. IF THERE ARE AN TIONS OR INSTALLATION I OR CONTACT THE BUREA INSPORTATION DISTRICT (THE GROUND CONDUCTOR NSTALLATION. AT NO OT EM SHALL THE NEUTRAL DNDUCTORS SHALL TERMIN IDE A GROUND CABLE WIT R AND HANDHOLE FRAME.	TALLED IN D LAN PROVIDED TAL ENCLOSUF IND ROD SHAL D. ONE GROUND FOUNDATION RVICE INSTAL IV SPECIAL CI PROBLEMS, TH U OF TRAFFIC DNE AT SHALL BE THER POINT AND GROUND NATE AT THE	L BE ID ROD IS. LATION DNDITIONS IE RESIDENT C.
	 GROUND CABLE SHAL 6.5' (2.0m) SLACK S 13' (4.0m) OF SLACK 	YED EQUAL) BE BRONZE (L BE LOOPEI HALL BE PRO SHALL BE FR	74" (20mm) HEAVY- (BURNDY TYPE GRC (OR COPPER, UL APPROVE D OVER HOOKS IN THE H DVIDED IN SINGLE HANDH ROVIDED IN SINGLE HANDH ROVIDED IN DOUBLE HAN ROVIDED BETWEEN FRAME	DR APPROVED	EQUAL)
OR API MENT GROUNDING 6 GROUND (GREE	IN TYPE KC, K2C, PROVED EQUAL) Sin Color coded) Sin Color coded Sin Color coded) Sin Color coded Sin Color coded Sin Color coded) Sin Color coded Sin Color coded	POST-(GROUNDING DETA	IND (GREEN C GROUND ROD VELD, DVED CONNEC ALL GROUND ALL GROUND (20mm × 3.0 ND ROD	OLOR CODED) CLAMP, TOR, RODS)
ONE		F.A.P. RTE. 351	SECTION	COUNTY	TS-4 TOTAL SHEET SHEETS NO.

INAL DESIGN DETAILS TS STA. TO STA. FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT



The second		
HANDHOLE	6.5	2.0
DOUBLE HANDHOLE	13.0	4.0
SIGNAL POST	2.0	0.6
MAST ARM	2.0	0.6
CONTROLLER CABINET	1.5	0.5
FIBER OPTIC AT CABINET	13.0	4.0
ELECTRIC SERVICE AT (CABINET OR SERVICE LOCATION)	1.5	0.5
GROUND CABLE (SIGNAL POST, MAST ARM, CABINET)	1.5	0.5
GROUND CABLE (BETWEEN FRAME AND COVER)	5.0	1.6

CABLE SLACK

MAST ARM POLE (MAST ARM MOUNTED SIGNAL HEAD)		
(L = MAST ARM LENGTH - DISTANCE TO SIGNAL HEAD FROM END OF ARM)	20.0+L	6.0+L
BRACKET MOUNTED (MAST ARM POLE OR SIGNAL POLE)	13.0	4.0
PEDESTRIAN PUSH BUTTON	6.0	2.0
SERVICE INSTALLATION POLE MOUNT TO SERVICE DROP	13.5	4.1
SERVICE INSTALLATION POLE MOUNT TO GROUND	13.5	4.1
SERVICE INSTALLATION GROUND MOUNT	6.0	2.0
FOUNDATION (SIGNAL POST, MAST ARM POLE, CONTROLLER CABINET, SERVICE-GROUND MOUN') 3.0	1.0

VERTICAL CABLE LENGTH

DEPTH OF FOUNDATIO	DN
SERVICE INSTALLATION, GROUND MOUNT, TYPE A - SQUARE	4'-0" (1.2m
TYPE D - CONTROLLER	4'-0" (1.2m
TYPE C - CONTROLLER W/ UPS	4'-0" (1.2m
TYPE A - Signal Post	4'-0" (1.2m
FOUNDATION	DEPTH

NOTES:

DEPTH OF MAST ARM FOUNDATIONS, TYPE E

						•	
FILE NAME =	USER NAME = footemj	DESIGNED - DAG	REVISED - DAG 1-1-14		DISTRICT ONE	F.A.P. SECTION	COUNTY TOTAL SHEET
c:\pw_work\pw1dot\footemj\d0108315\ts05.	dgn	DRAWN - BCK	REVISED -	STATE OF ILLINOIS		351 2010-081-R	1045 322
	PLOT SCALE = 50.0000 '/ in.	CHECKED - DAD	REVISED -	DEPARTMENT OF TRANSPORTATION	STANDARD TRAFFIC SIGNAL DESIGN DETAILS	TS-05	CONTRACT NO. 60L72
	PLOT DATE = 1/13/2014	DATE - 10-28-09	REVISED -		SCALE: NONE SHEET NO. 5 OF 7 SHEETS STA. TO STA.	FED. ROAD DIST. NO. 1 ILLINOIS FED. A	AID PROJECT

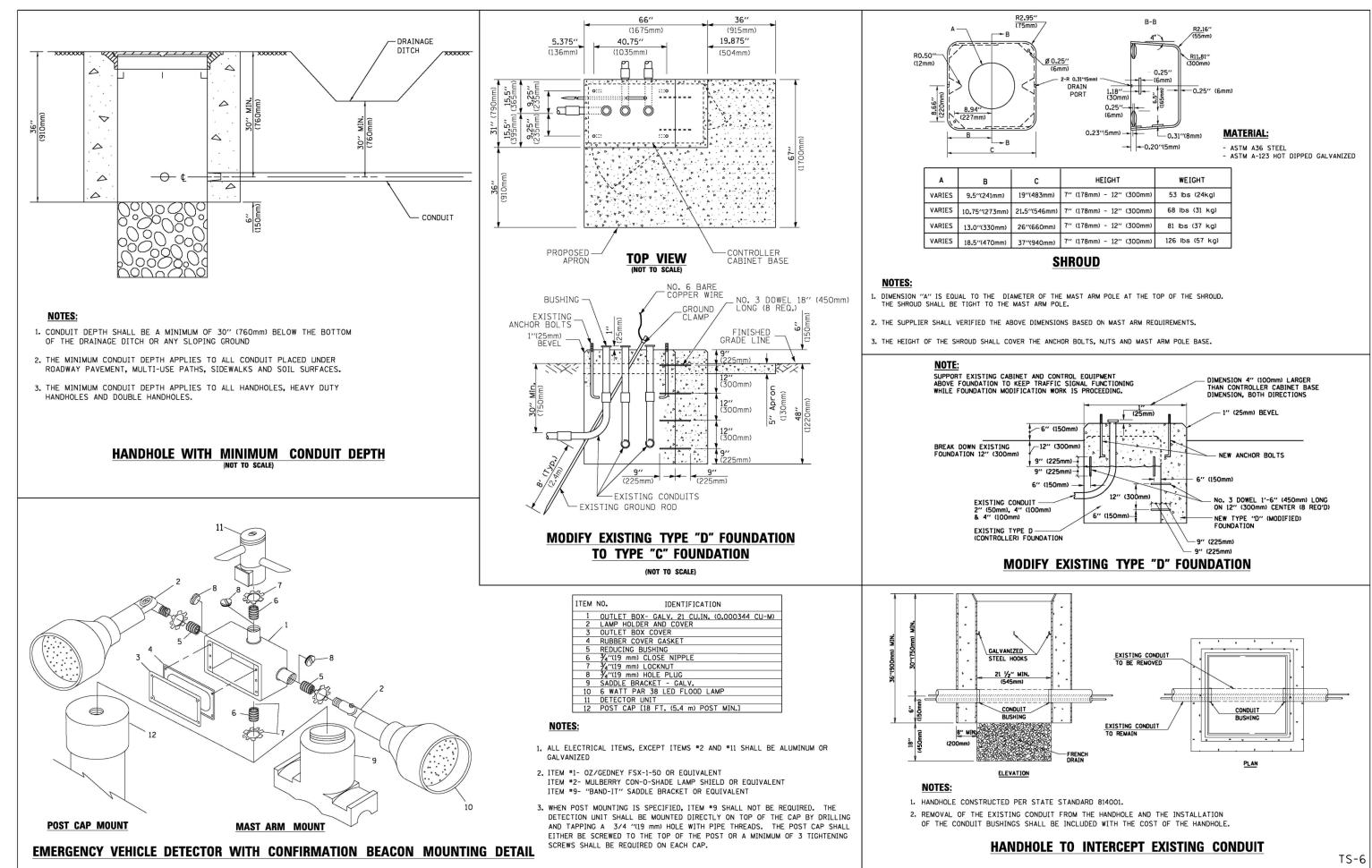
Mast Arm Length	① Foundation Depth	Foundation Diameter	Spiral Diameter	Quantity of Rebars	Size of Rebars
Less than 30' (9.1 m)	10'-0" (3.0 m)	30" (750mm)	24" (600mm)	8	6(19)
Greater than or equal to	13'-6" (4.1 m)	30" (750mm)	24" (600mm)	8	6(19)
30' (9.1 m) and less than 40' (12.2 m)	11'-0" (3.4 m)	36" (900mm)	30" (750mm)	12	7(22)
Greater than or equal to 40' (12.2 m) and less than 50' (15.2 m)	13'-0" (4.0 m)	36" (900mm)	30" (750mm)	12	7(22)
Greater than or equal to 50' (15.2 m) and up to 55' (16.8 m)	15'-0" (4.6 m)	36" (900mm)	30" (750mm)	12	7(22)
Greater than or equal to 56' (16.8 m) and less than 65' (19.8 m)	21'-0" (6.4 m)	42'' (1060mm)	36" (900mm)	16	8(25)
Greater than or equal to 65' (19.8 m) and up to 75' (22.9 m)	25'-0" (7 . 6 m)	42" (1060mm)	36" (900mm)	16	8(25)

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 (0u) > 1.0 tsf (100 kpa). 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. Combination mast arm assemblies under 55 feet (16.8 m) shall use 36" (900 mm) diameter foundations.

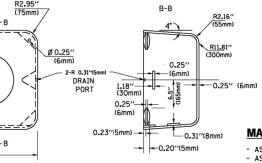
Combination mast arm assemblies under 56 feet (16.8 m) through 75 feet (22.9 m) shall use 42" (1060 mm) diameter foundations

4. For mast arm assemblies with dual arms refer to state standard 878001..

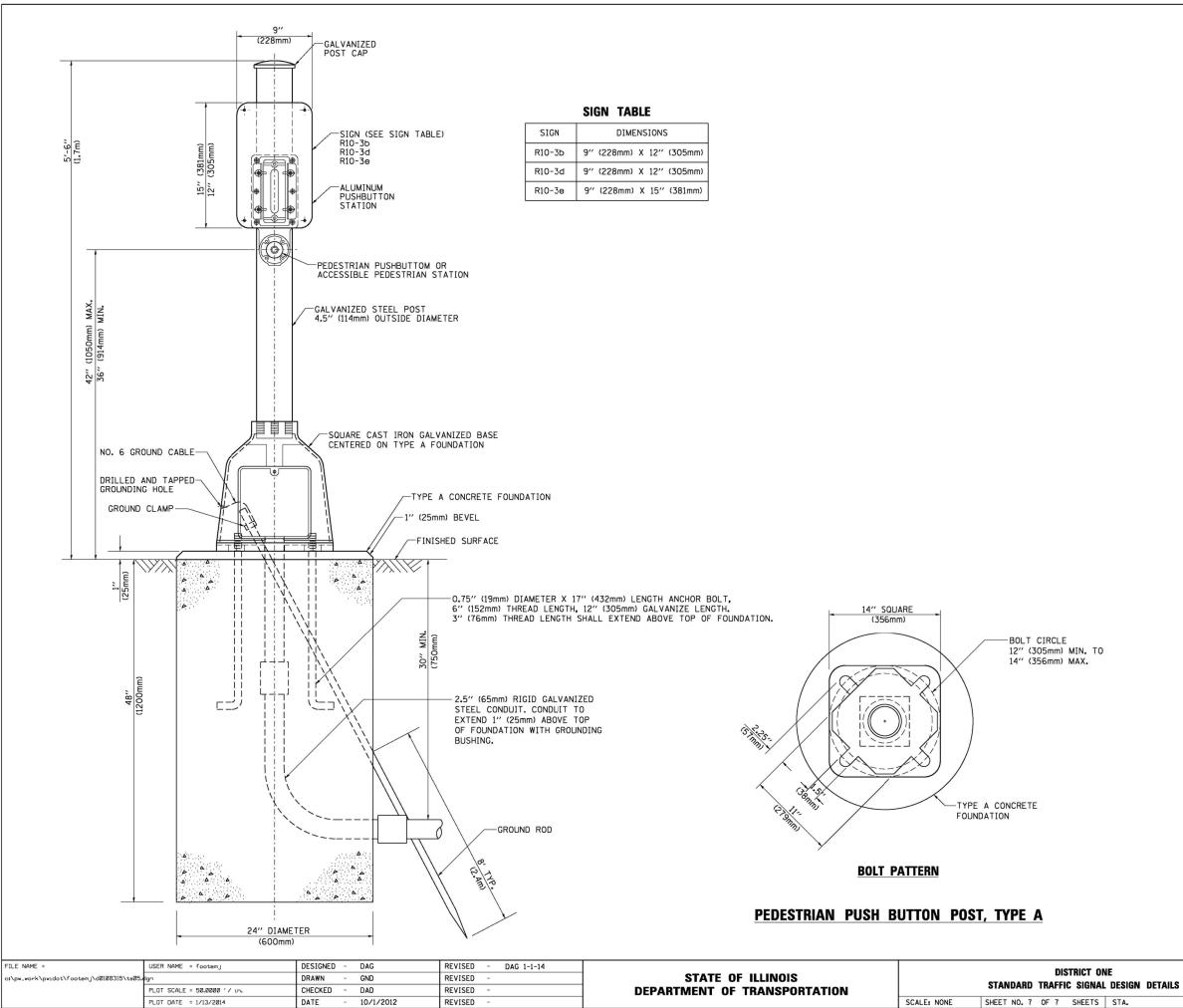


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c:\pw_work\pwidot\footemj\d0108315\ts05.	dgn	DRAWN	-	BCK	REVISED	-		
	PLOT SCALE = 50.0000 '/ in.	CHECKED	ж.	DAD	REVISED	-		
	PLOT DATE = 1/13/2014	DATE	-	10-28-09	REVISED	-		

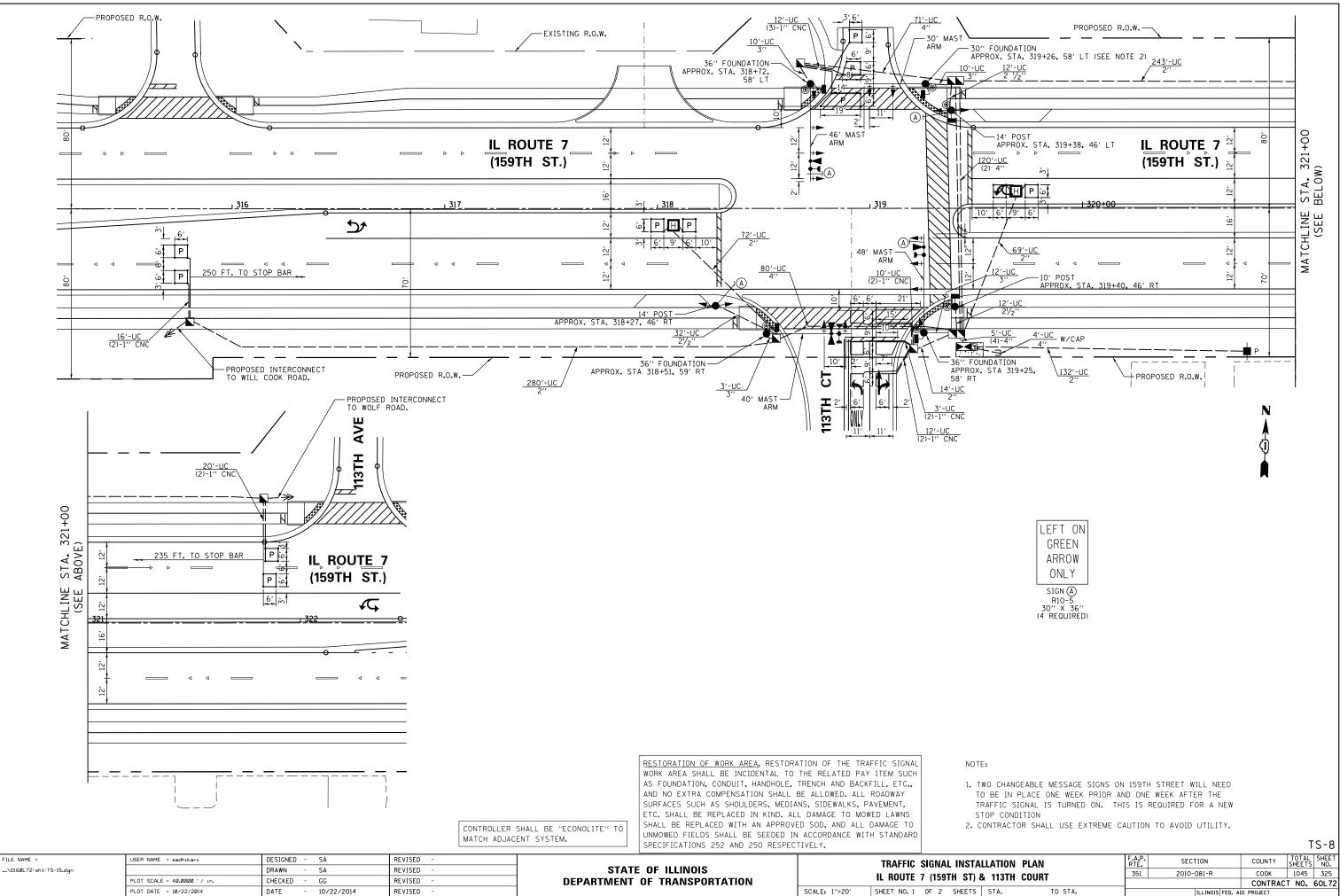
										5 0
1-1-14	STATE OF ILLINOIS		DISTRICT ONE STANDARD TRAFFIC SIGNAL DESIGN DETAILS			F.A.P. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
						351	2010-081-R		1045	323
	DEPARTMENT OF TRANSPORTATION						TS05	CONTRACT	NO.	60L72
		SCALE: NONE	SHEET NO. 6 OF 7 SHEETS	STA.	TO STA.	FED. RC	AD DIST. NO. 1 ILLINOIS FED. AI	ID PROJECT		



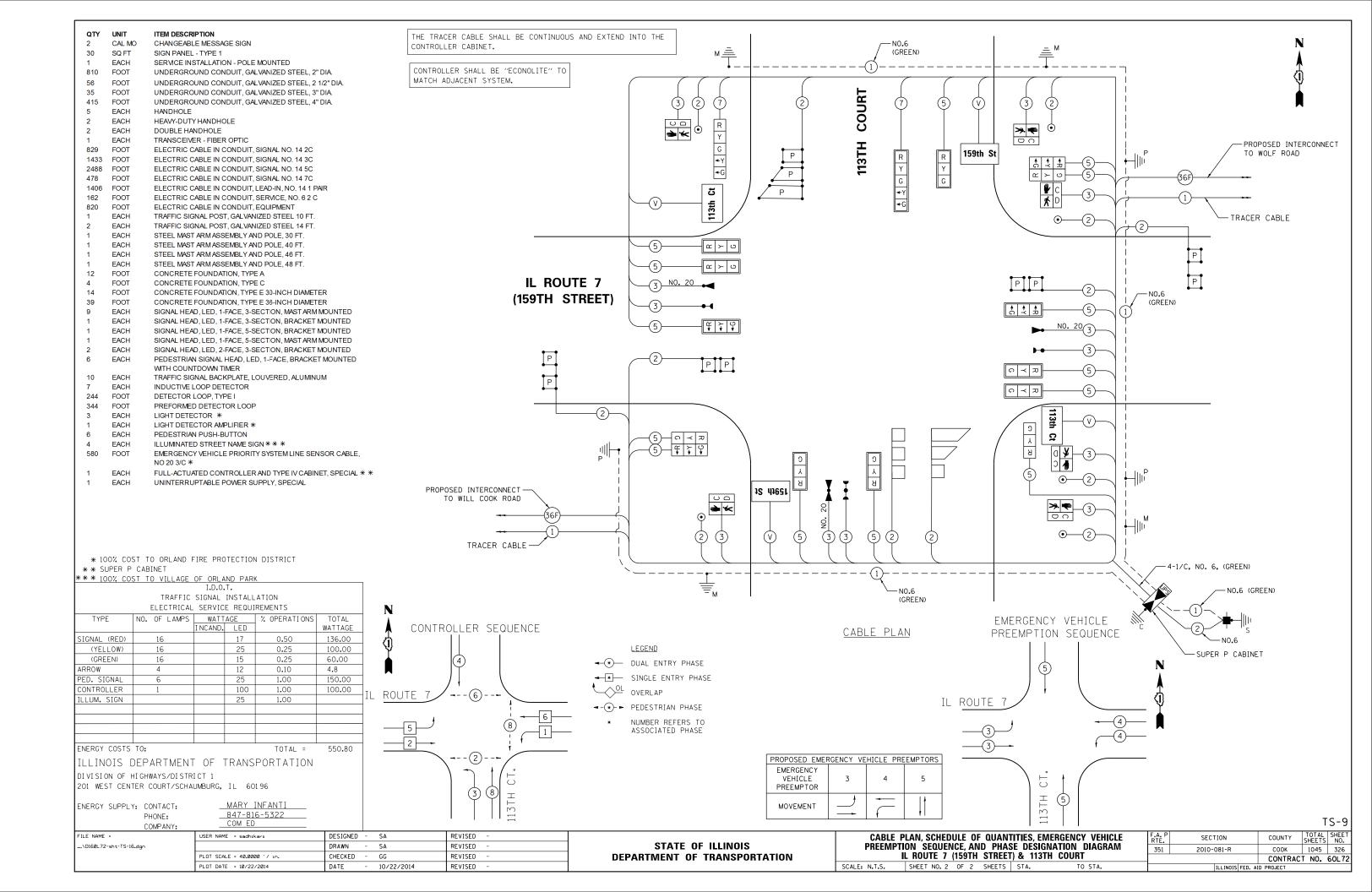
	с	HEIGHT	WEIGHT		
1)	19''(483mm)	7" (178mm) - 12" (300mm)	53 lbs (24kg)		
m)	21.5"(546mm)	7" (178mm) - 12" (300mm)	68 lbs (31 kg)		
n)	26''(660mm)	7" (178mm) - 12" (300mm)	81 lbs (37 kg)		
n)	37''(940mm)	7" (178mm) - 12" (300mm)	126 lbs (57 kg)		

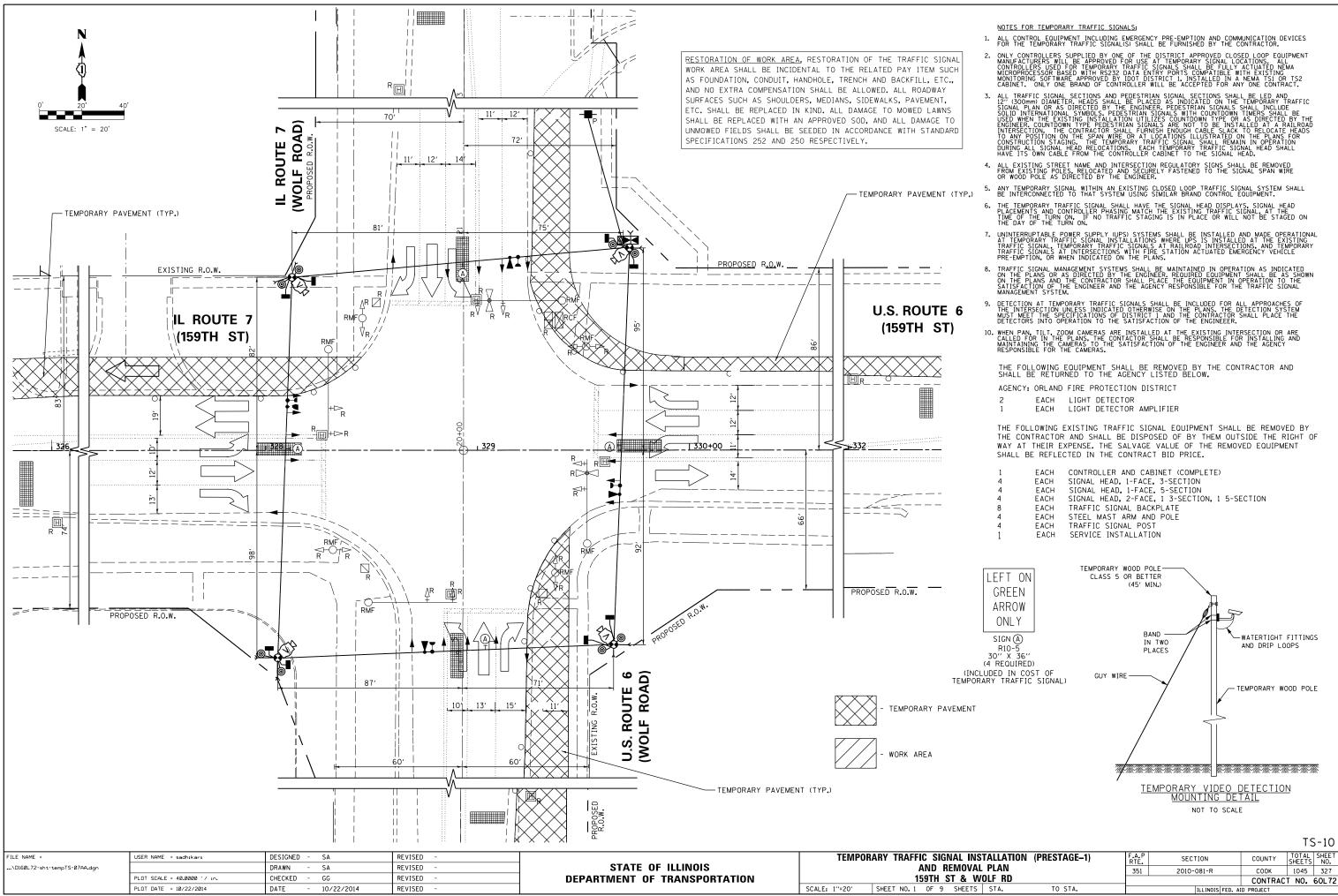


TOTAL SHEET SHEETS NO. SECTION COUNTY RTE 351 2010-081-R 1045 324 TS--05 CONTRACT NO. 60L72 TO STA. FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT

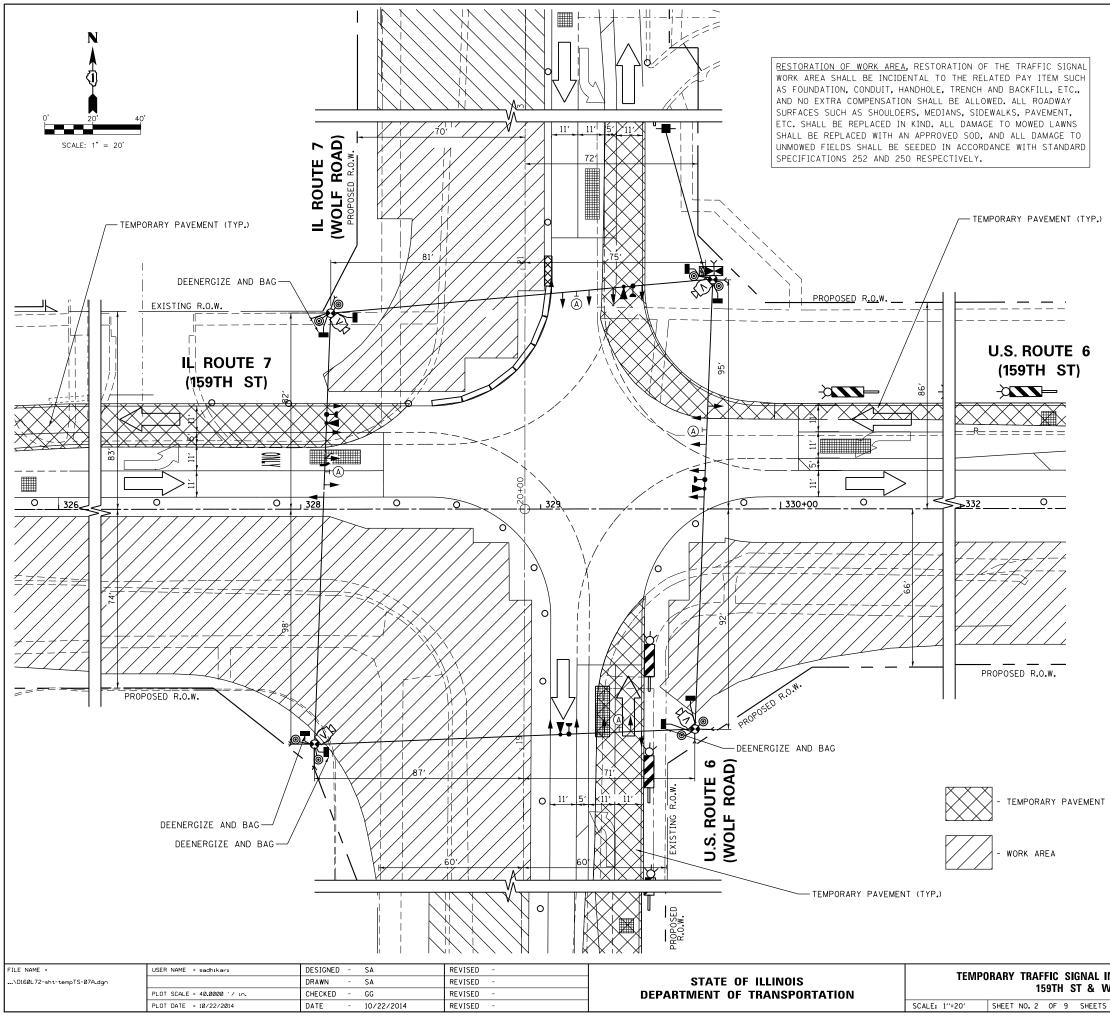


TO STA.





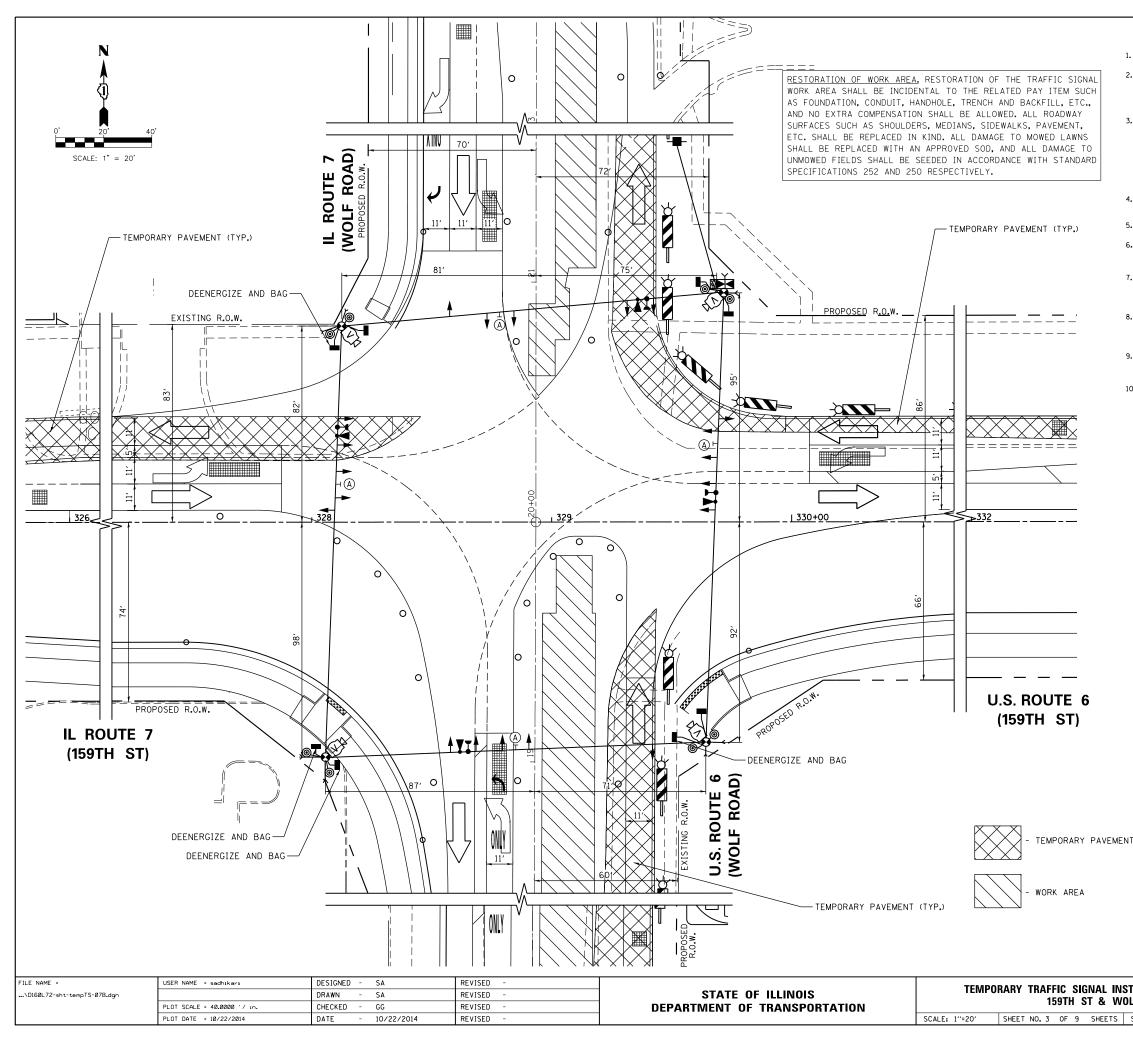
1	EACH	CONTROLLER AND CABINET (COMPLETE)
4	EACH	SIGNAL HEAD, 1-FACE, 3-SECTION
4	EACH	SIGNAL HEAD, 1-FACE, 5-SECTION
4	EACH	SIGNAL HEAD, 2-FACE, 1 3-SECTION, 1 5-SECTION
8	EACH	TRAFFIC SIGNAL BACKPLATE
4	EACH	STEEL MAST ARM AND POLE
4	EACH	TRAFFIC SIGNAL POST
1	EACH	SERVICE INSTALLATION



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- 7. UNINFERRUPTABLE POWER SUPPLY (UPS) SYSTEMS SHALL BE INSTALLED AND MADE OPERATIONAL AT TEMPORARY TRAFFIC SIGNAL INSTALLATIONS WHERE UPS IS INSTALLED AT THE EXISTING TRAFFIC SIGNAL, TEMPORARY TRAFFIC SIGNALS AT RAILROAD INTERSECTIONS, AND TEMPORARY TRAFFIC SIGNALS AT INTERSECTIONS WITH FIRE STATION ACTUATED EMERGENCY VEHICLE PRE-EMPTION, OR WHEN INDICATED ON THE PLANS.
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LEFT ON GREEN ARROW ONLY SIGN (Å) R10-5 30" x 36" (4 REQUIRED) (INCLUDED IN COST OF TEMPORARY TRAFFIC SIGNAL)

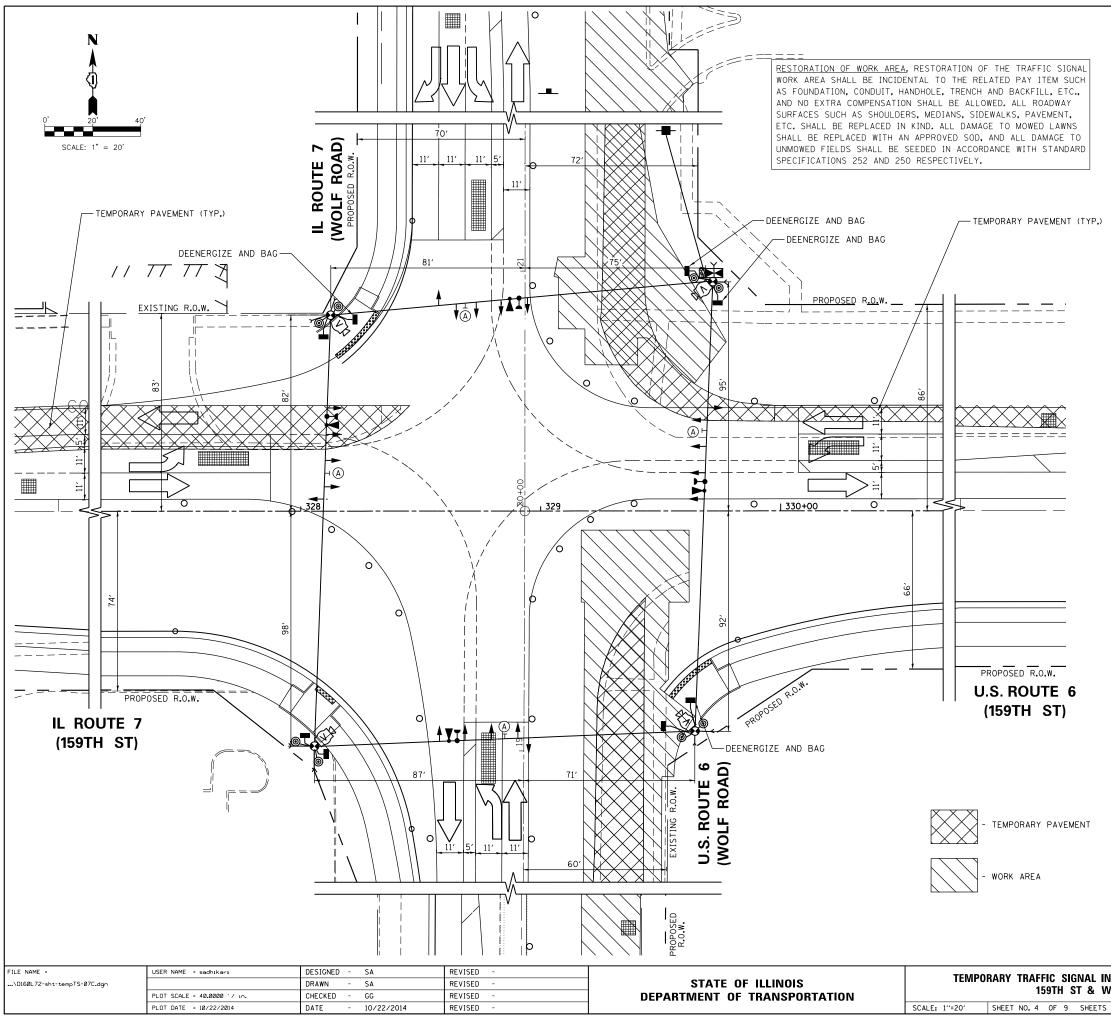
IN	INSTALLATION (STAGE 1)			SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
NOLF RD					СООК	1045	328
_					CONTRA	CT NO.	60L72
5	STA.	TO STA.		ILLINOIS FEE	D. AID PROJECT		



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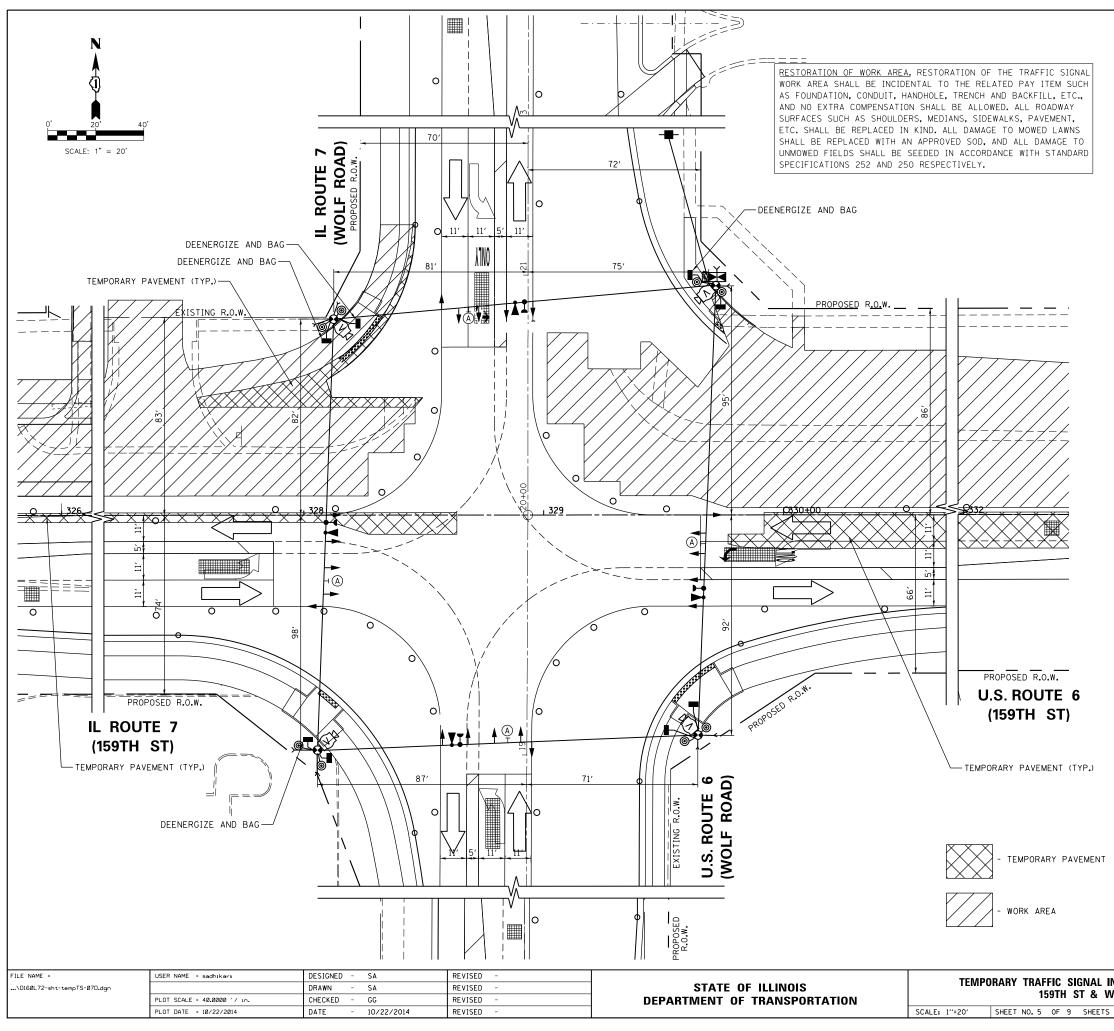
v	STALLATION (STAGE 1A)		F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VOLF RD		351	2010-081-R	СООК	1045	329	
					CONTRAC	T NO.	60L72
	STA.	TO STA.	ILLINOIS FED. AID PROJECT				



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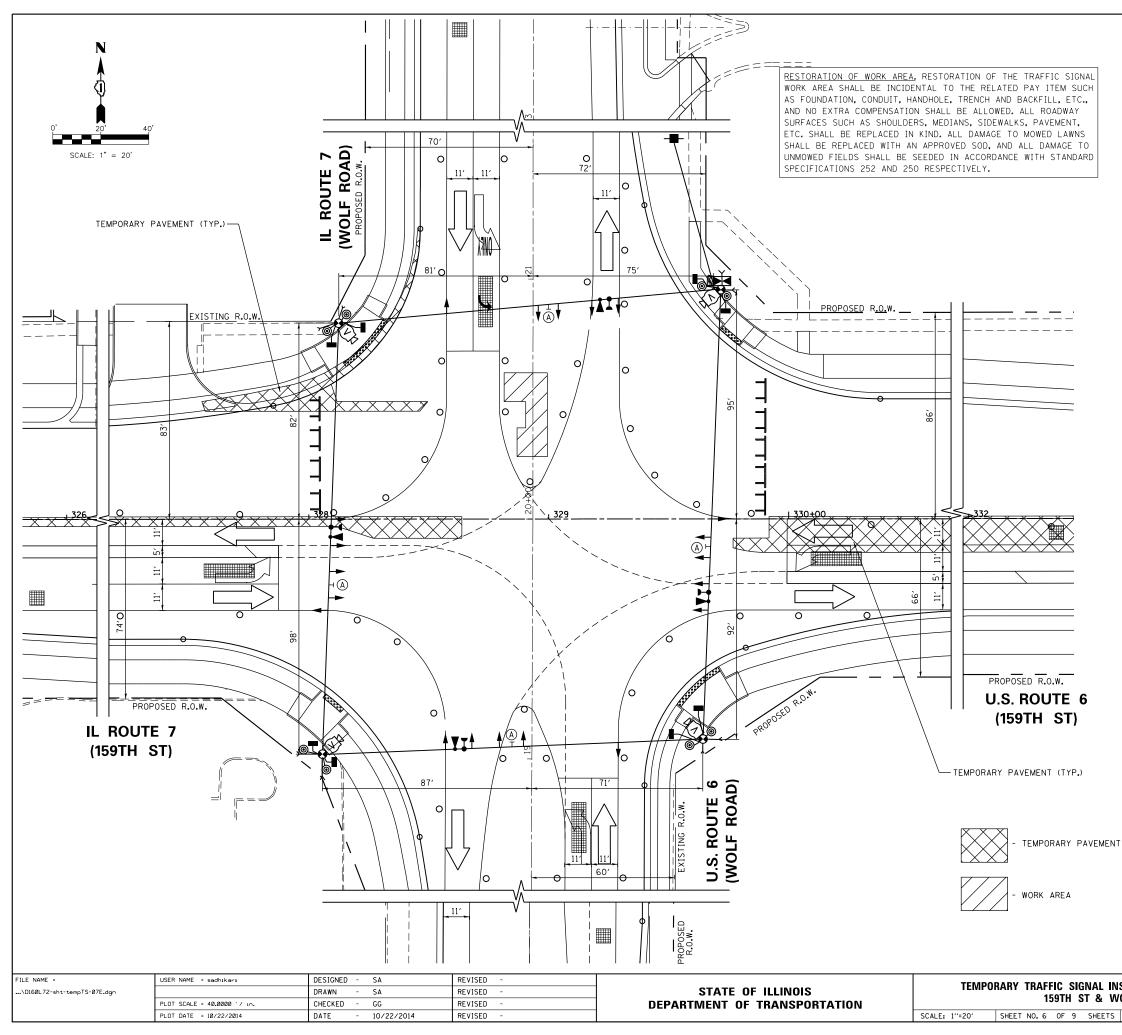
NSTALLATION (STAGE 1B)		F.A.P. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	VOLF RD		2010-081-R	COOK	1045	330
-			CONTRACT NO. 60L			
	STA. TO STA.	ILLINOIS FED. AID PROJECT				



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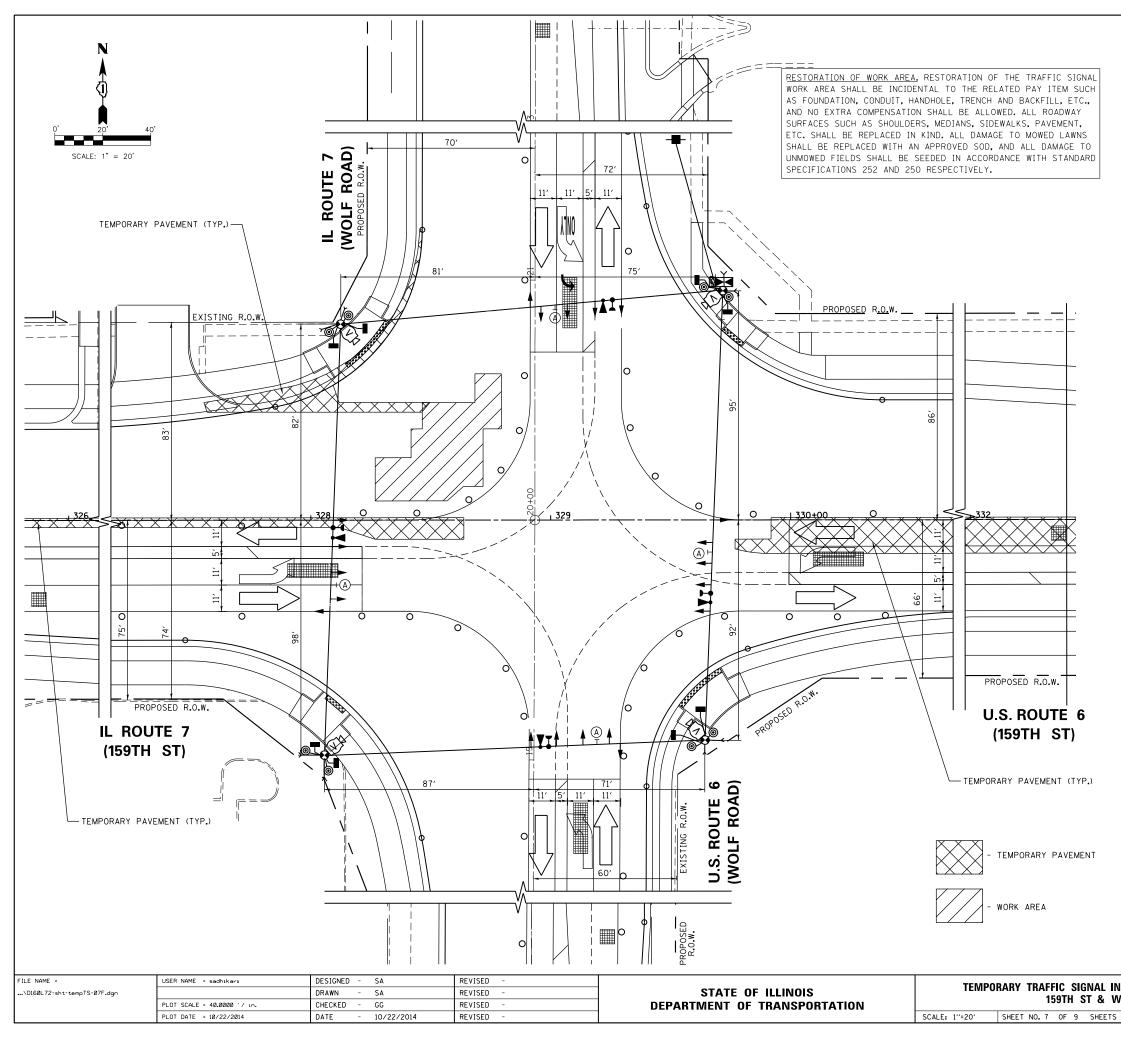
IN	NSTALLATION (STAGE 2) Volf RD		F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
						2010-081-R	СООК
-					CONTRAC	T NO.	60L72
	STA.	TO STA.	ILLINOIS FED. AID PROJECT				



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- 10. WHEN PAN, TILT, ZOOM CAMERAS ARE INSTALLED AT THE EXISTING INTERSECTION OR ARE CALLED FOR IN THE PLANS, THE CONTACTOR SHALL BE RESPONSIBLE FOR INSTALLING AND MAINTAINING THE CAMERAS TO THE SATISFACTION OF THE ENGINEER AND THE AGENCY RESPONSIBLE FOR THE CAMERAS.



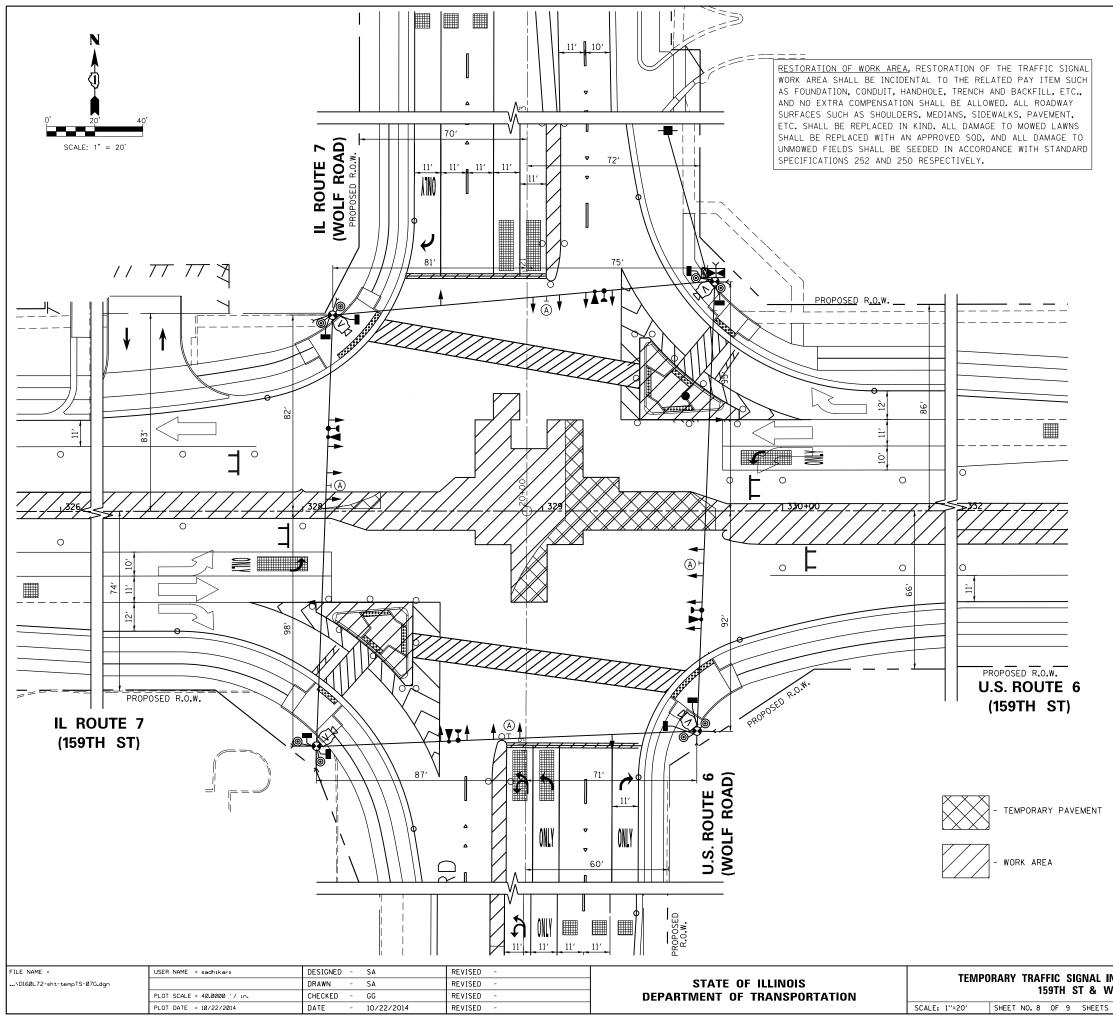
NSTALLATION (STAGE 2A) Volf RD		F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		351	2010-081-R	СООК	1045	332
				CONTRAC	T NO.	60L72
	STA. TO STA.		ILLINOIS FED.	ID PROJECT		



- 1. ALL CONTROL EQUIPMENT INCLUDING EMERGENCY PRE-EMPTION AND COMMUNICATION DEVICES FOR THE TEMPORARY TRAFFIC SIGNAL(S) SHALL BE FURNISHED BY THE CONTRACTOR.
- 2. ONLY CONTROLLERS SUPPLIED BY ONE OF THE DISTRICT APPROVED CLOSED LOOP EQUIPMENT MANUFACTURERS WILL BE APPROVED FOR USE AT TEMPORARY SIGNAL LOCATIONS. ALL CONTROLLERS USED FOR TEMPORARY TRAFFIC SIGNALS SHALL BE FULLY ACTUATED NEMA MICROPROCESSOR BASED WITH R5232 DATA ENTRY PORTS COMPATIBLE WITH EXISTING MONITORING SOFTWARE APPROVED BY IDOT DISTRICT 1, INSTALLED IN A NEMA TSI OR T52 CABINET. ONLY ONE BRAND OF CONTROLLER WILL BE ACCEPTED FOR ANY ONE CONTRACT.
- CABINET. UNLT UNE DAMAND OF CUNINGLER WILL BE ALCEPTED FOR ANT UNE CUNTRACT.
 3. ALL TRAFFIC SIGNAL SECTIONS AND PEDESTRIAN SIGNAL SECTIONS SHALL BE LED AND 12" (300mm) DIAMETER, HEADS SHALL BE PLACED AS INDICATED ON THE TEMPORARY TRAFFIC SIGNAL PLAN OR AS DIRECTED BY THE ENGINEER, PEDESTRIAN SIGNALS WITH COUNTDOWN THERS SHALL BE USED WHEN THE EXISTING INSTALLATION UTILIZES COUNTDOWN TYPE OR AS DIRECTED BY THE ENGINEER, COUNTDOWN TYPE PEDESTRIAN SIGNALS ARE NOT TO BE INSTALLED AT A RAILROAD INTERSATIONAL SYMBOLS, PEDESTRIAN SIGNALS ARE NOT TO BE INSTALLED AT A RAILROAD INTERSECTION. THE CONTRACTOR SHALL FURNISH ENOUGH CABLE SLACK TO RELOCATE HEADS TO ANY POSITION ON THE SPAN WIRE OR AT LOCATIONS ILLUSTRATED ON THE PLANS FOR CONSTRUCTION STAGING. THE TEMPORARY TRAFFIC SIGNAL SHALL REMAIN IN OPERATION DURING ALL SIGNAL HEAD RELOCATIONS, EACH TEMPORARY TRAFFIC SIGNAL HEAD SHALL HAVE ITS OWN CABLE FROM THE CONTROLLER CABINET TO THE SIGNAL HEAD.
- 4. ALL EXISTING STREET NAME AND INTERSECTION REGULATORY SIGNS SHALL BE REMOVED FROM EXISTING POLES, RELOCATED AND SECURELY FASTENED TO THE SIGNAL SPAN WIRE OR WOOD POLE AS DIRECTED BY THE ENGINEER.
- ANY TEMPORARY SIGNAL WITHIN AN EXISTING CLOSED LOOP TRAFFIC SIGNAL SYSTEM SHALL BE INTERCONNECTED TO THAT SYSTEM USING SIMILAR BRAND CONTROL EQUIPMENT.
- 6. THE TEMPORARY TRAFFIC SIGNAL SHALL HAVE THE SIGNAL HEAD DISPLAYS, SIGNAL HEAD PLACEMENTS AND CONTROLLER PHASING MATCH THE EXISTING TRAFFIC SIGNAL, AT THE TIME OF THE TURN ON, IF NO TRAFFIC STAGING IS IN PLACE OR WILL NOT BE STAGED ON THE DAY OF THE TURN ON.
- 7. UNINTERRUPTABLE POWER SUPPLY (UPS) SYSTEMS SHALL BE INSTALLED AND MADE OPERATIONAL AT TEMPORARY TRAFFIC SIGNAL INSTALLATIONS WHERE UPS IS INSTALLED AT THE EXISTING TRAFFIC SIGNAL TEMPORARY TRAFFIC SIGNALS AT RAIROAD INTERSECTIONS, AND TEMPORARY TRAFFIC SIGNALS AT INTERSECTIONS WITH FIRE STATION ACTUATED EMERGENCY VEHICLE PRE-EMPTION, OR WHEN INDICATED ON THE PLANS.
- 8. TRAFFIC SIGNAL MANAGEMENT SYSTEMS SHALL BE MAINTAINED IN OPERATION AS INDICATED ON THE PLANS OR AS DIRECTED BY THE ENGINEER. REQUIRED EQUIPMENT SHALL BE AS SHOWN ON THE PLANS AND THE CONTRACTOR SHALL PLACE THE EQUIPMENT IN OPERATION TO THE SATISFACTION OF THE ENGINEER AND THE AGENCY RESPONSIBLE FOR THE TRAFFIC SIGNAL MANAGEMENT SYSTEM.
- 9. DETECTION AT TEMPORARY TRAFFIC SIGNALS SHALL BE INCLUDED FOR ALL APPROACHES OF THE INTERSECTION UNLESS INDICATED OTHERWISE ON THE PLANS. THE DETECTION SYSTEM MUST MEET THE SPECIFICATIONS OF DISTRICT I AND THE CONTRACTOR SHALL PLACE THE DETECTORS INTO OPERATION TO THE SATISFACTION OF THE ENGINEEER.
- 10. WHEN PAN, TILT, ZOOM CAMERAS ARE INSTALLED AT THE EXISTING INTERSECTION OR ARE CALLED FOR IN THE PLANS, THE CONTACTOR SHALL BE RESPONSIBLE FOR INSTALLING AND MAINTAINING THE CAMERAS TO THE SATISFACTION OF THE ENGINEER AND THE AGENCY RESPONSIBLE FOR THE CAMERAS.

LEFT ON GREEN ARROW
ONLY
SIGN (A) R10-5 30'' X 36''
(4 REQUIRED)
UDED IN COST OF ARY TRAFFIC SIGNAL)

NSTALLATION (STAGE 2B)		F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.		
	VOLF RD		351	2010-081-R	СООК	1045	333	
					CONTRAC	T NO.	60L72	
	STA.	TO STA.		ILLINOIS FED. AID PROJECT				



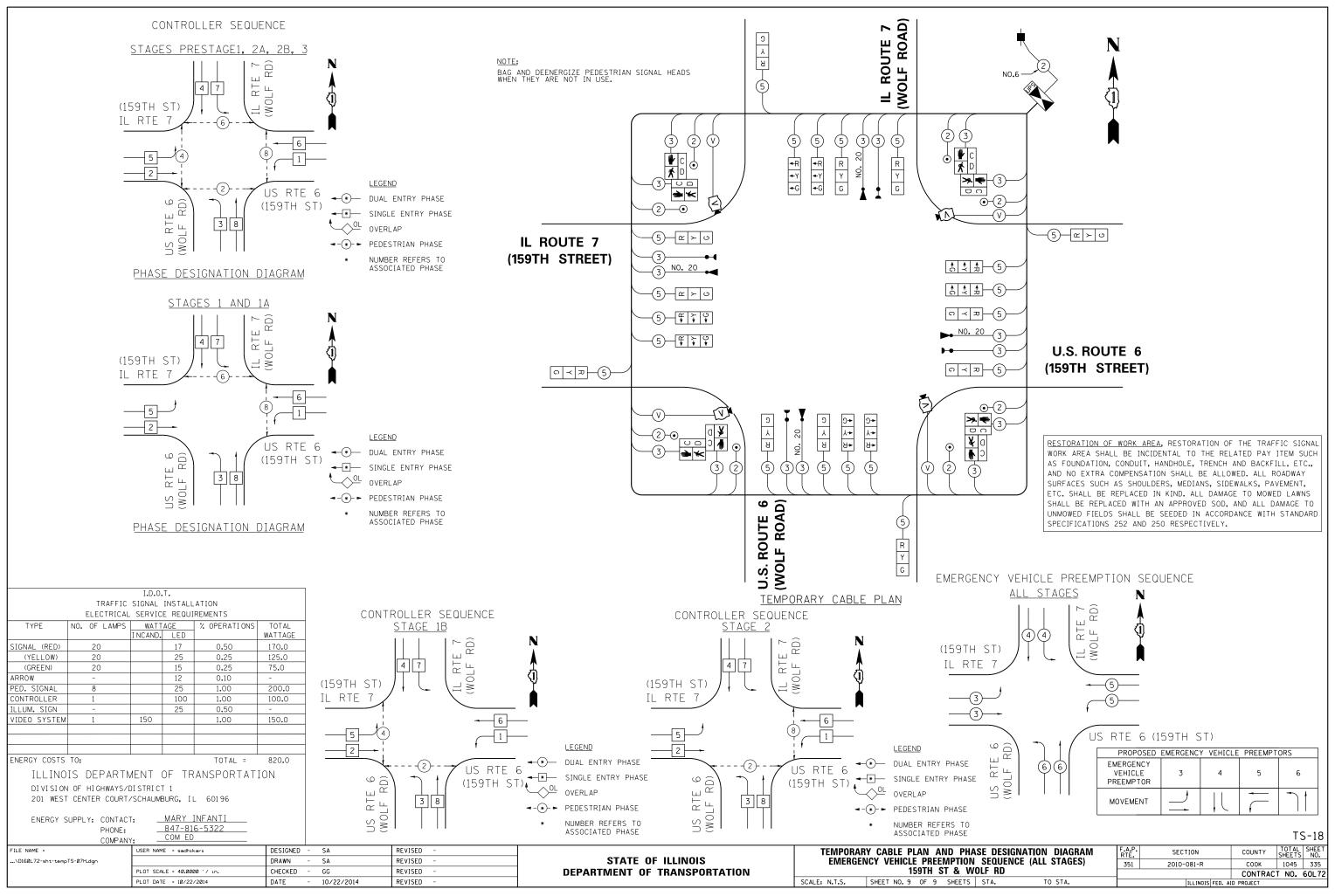
- 1. ALL CONTROL EQUIPMENT INCLUDING EMERGENCY PRE-EMPTION AND COMMUNICATION DEVICES FOR THE TEMPORARY TRAFFIC SIGNAL(S) SHALL BE FURNISHED BY THE CONTRACTOR.
- 2. ONLY CONTROLLERS SUPPLIED BY ONE OF THE DISTRICT APPROVED CLOSED LOOP EQUIPMENT MANUFACTURERS WILL BE APPROVED FOR USE AT TEMPORARY SIGMAL LOCATIONS. ALL CONTROLLERS USED FOR TEMPORARY TRAFFIC SIGNALS SHALL BE FULLY ACTUATED NEMA MICROPROCESSOR BASED WITH RS232 DATA ENTRY PORTS COMPATIBLE WITH EXISTING MONITORING SOFTWARE APPROVED BY IDDI DISTRICT 1, INSTALLED IN A NEMA TSI OR TS2 CABINET. ONLY ONE BRAND OF CONTROLLER WILL BE ACCEPTED FOR ANY ONE CONTRACT.
- CABINET, ONE FORE SEARCH OF CONTROLLER WILL BE ACCEPTED FOR ANY ONE CONTRACT.
 3. ALL TRAFFIC SIGNAL SECTIONS AND PEDESTRIAN SIGNAL SECTIONS SHALL BE LED AND 12" (300mm) DIAMETER, HEADS SHALL BE PLACED AS INDICATED ON THE TEMPORARY TRAFFIC SIGNAL PLAN OR AS DIRECTED BY THE ENGINEER, PEDESTRIAN SIGNALS SHALL INCLUDE SOLID INTERNATIONAL SYMBOLS, PEDESTRIAN SIGNALS WITH COUNTDOWN THERES SHALL BE USED WHEN THE EXISTING INSTALLATION UTILIZES COUNTDOWN TYPE OR AS DIRECTED BY THE ENGINEER, COUNTOWN TYPE PEDESTRIAN SIGNALS ARE NOT TO BE INSTALLED AT A RAIL RAD INTERSECTION. THE CONTRACTOR SHALL PURISH ENOUGH CABLE SLACK TO RELOCATE HEADS TO ANY POSITION ON THE SPAN WIRE OR AT LOCATIONS ILLUSTRATED ON THE PLANS FOR CONSTRUCTION STAGING. THE TEMPORARY TRAFFIC SIGNAL SHALL REMAIN IN OPERATION DURING ALL SIGNAL HEAD RELOCATIONS. EACH TEMPORARY TRAFFIC SIGNAL HEAD SHALL HAVE ITS OWN CABLE FROM THE CONTROLLER CABINET TO THE SIGNAL HEAD SHALL
- 4. ALL EXISTING STREET NAME AND INTERSECTION REGULATORY SIGNS SHALL BE REMOVED FROM EXISTING POLES, RELOCATED AND SECURELY FASTENED TO THE SIGNAL SPAN WIRE OR WOOD POLE AS DIRECTED BY THE ENGINEER.
- 5. ANY TEMPORARY SIGNAL WITHIN AN EXISTING CLOSED LOOP TRAFFIC SIGNAL SYSTEM SHALL BE INTERCONNECTED TO THAT SYSTEM USING SIMILAR BRAND CONTROL EQUIPMENT.
- 6. THE TEMPORARY TRAFFIC SIGNAL SHALL HAVE THE SIGNAL HEAD DISPLAYS, SIGNAL HEAD PLACEMENTS AND CONTROLLER PHASING MATCH THE EXISTING TRAFFIC SIGNAL, AT THE TIME OF THE TURN ON, IF NO TRAFFIC STAGING IS IN PLACE OR WILL NOT BE STAGED ON THE DAY OF THE TURN ON.
- 7. UNINTERRUPTABLE POWER SUPPLY (UPS) SYSTEMS SHALL BE INSTALLED AND MADE OPERATIONAL AT TEMPORARY TRAFFIC SIGNAL INSTALLATIONS WHERE UPS IS INSTALLED AT THE EXISTING TRAFFIC SIGNAL TEMPORARY TRAFFIC SIGNALS AT RAILROAD INTERSECTIONS, AND TEMPORARY TRAFFIC SIGNALS AT INTERSECTIONS WITH FIRE STATION ACTUATED EMERGENCY VEHICLE PRE-EMPTION, OR WHEN INDICATED ON THE PLANS.
- 8. TRAFFIC SIGNAL MANAGEMENT SYSTEMS SHALL BE MAINTAINED IN OPERATION AS INDICATED ON THE PLANS OR AS DIRECTED BY THE ENGINEER. REQUIRED EQUIPMENT SHALL BE AS SHOWN ON THE PLANS AND THE CONTRACTOR SHALL PLACE THE EQUIPMENT IN OPERATION TO THE SATISFACTION OF THE ENGINEER AND THE AGENCY RESPONSIBLE FOR THE TRAFFIC SIGNAL MANAGEMENT SYSTEM.
- 9. DETECTION AT TEMPORARY TRAFFIC SIGNALS SHALL BE INCLUDED FOR ALL APPROACHES OF THE INTERSECTION UNLESS INDICATED OTHERWISE ON THE PLANS. THE DETECTION SYSTEM MUST MEET THE SPECIFICATIONS OF DISTRICT I AND THE CONTRACTOR SHALL PLACE THE DETECTORS INTO OPERATION TO THE SATISFACTION OF THE ENGINEEER.
- 10. WHEN PAN, TILT, ZOOM CAMERAS ARE INSTALLED AT THE EXISTING INTERSECTION OR ARE CALLED FOR IN THE PLANS, THE CONTACTOR SHALL BE RESPONSIBLE FOR INSTALLING AND MAINTAINING THE CAMERAS TO THE SATISFACTION OF THE ENGINEER AND THE AGENCY RESPONSIBLE FOR THE CAMERAS.

CONSTRUCTION NOTES

1. CONTRACTOR SHALL MAINTAIN CROSSROAD ACCESS AT ALL TIMES.

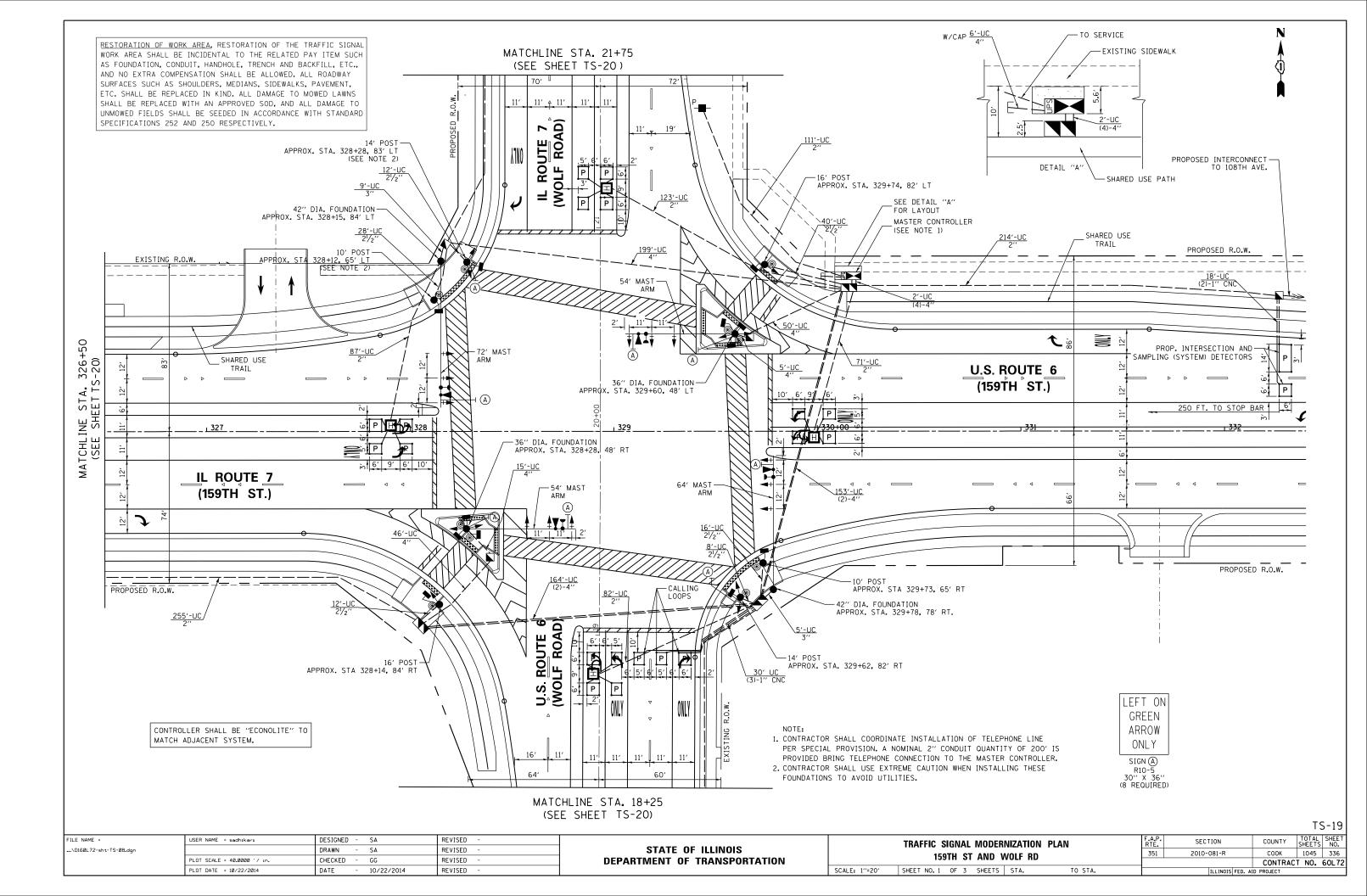
Г		
	LEFT ON	
	GREEN	
	ARROW	
	ONLY	
L	SIGN (A)	
	R10-5	
	30'' X 36''	
	4 REQUIRED)	
	JDED IN COST OF RY TRAFFIC SIGN	AL)

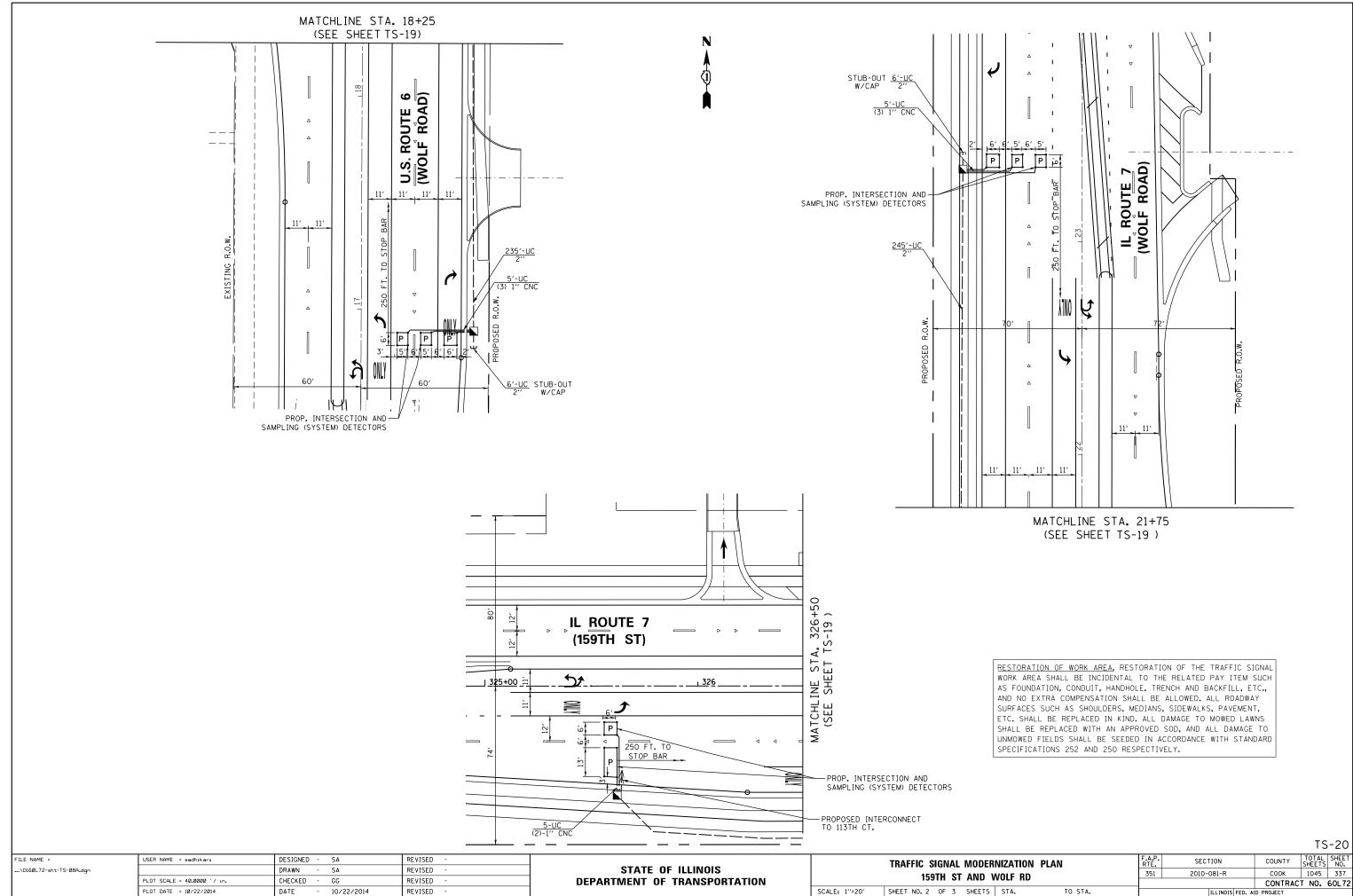
INSTALLATION (STAGE 3)		F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
		351	2010-081-R	СООК	1045	334	
				CONTRAC	T NO.	60L72	
;	STA.	TO STA.		ILLINOIS FED. A	ID PROJECT		



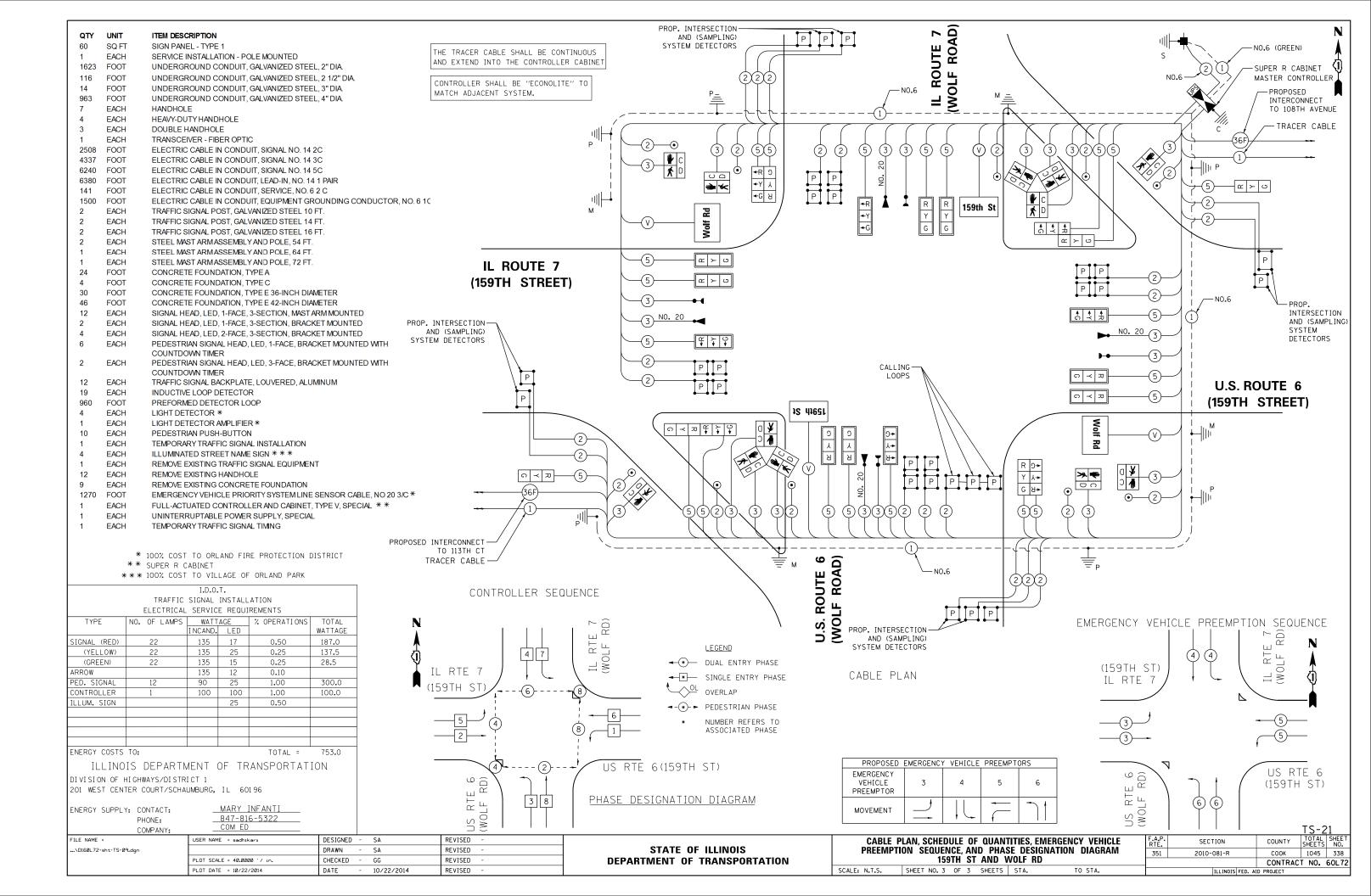
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	UN (W(MOVEMENT	<u> </u>				
)						TS-1	8

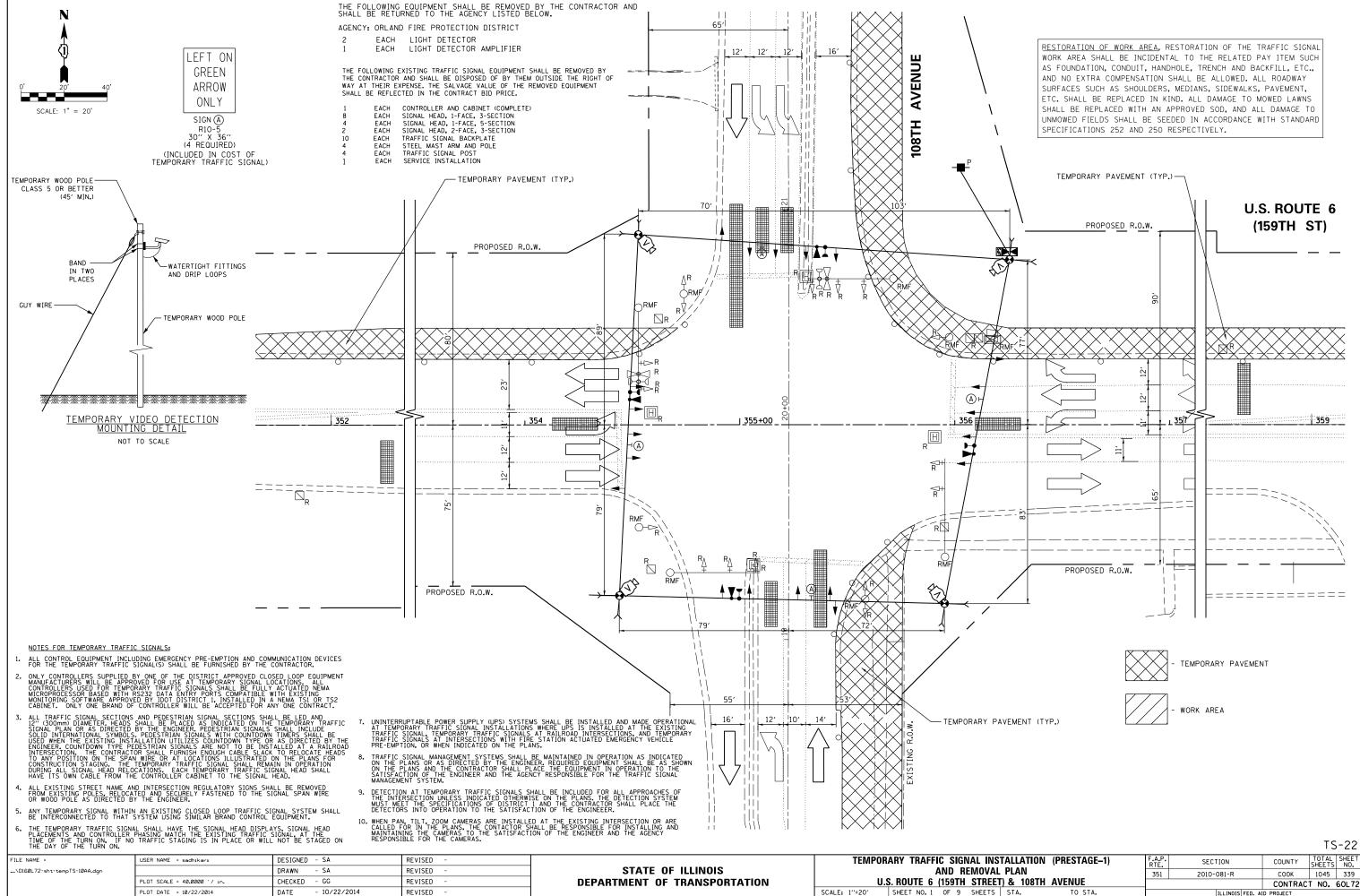
							, 10 l
IASE DESIGNATION DIAGRAM N SEQUENCE (ALL STAGES)		F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
		351	2010-081-R	СООК	1045	335	
N	VOLF RD				CONTRAC	T NO.	60L72
5	STA.	TO STA.	ILLINOIS FED. AID PROJECT				

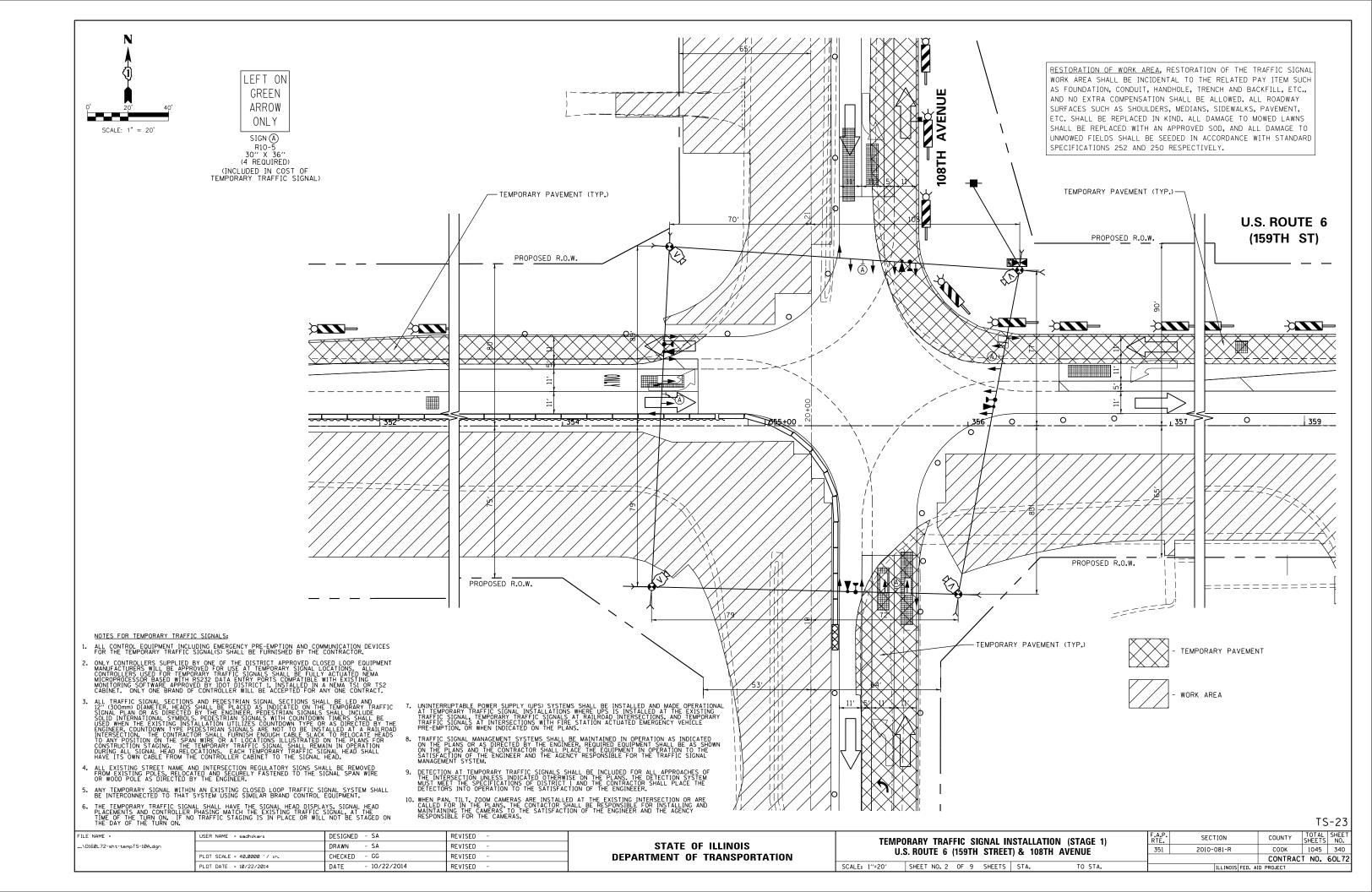


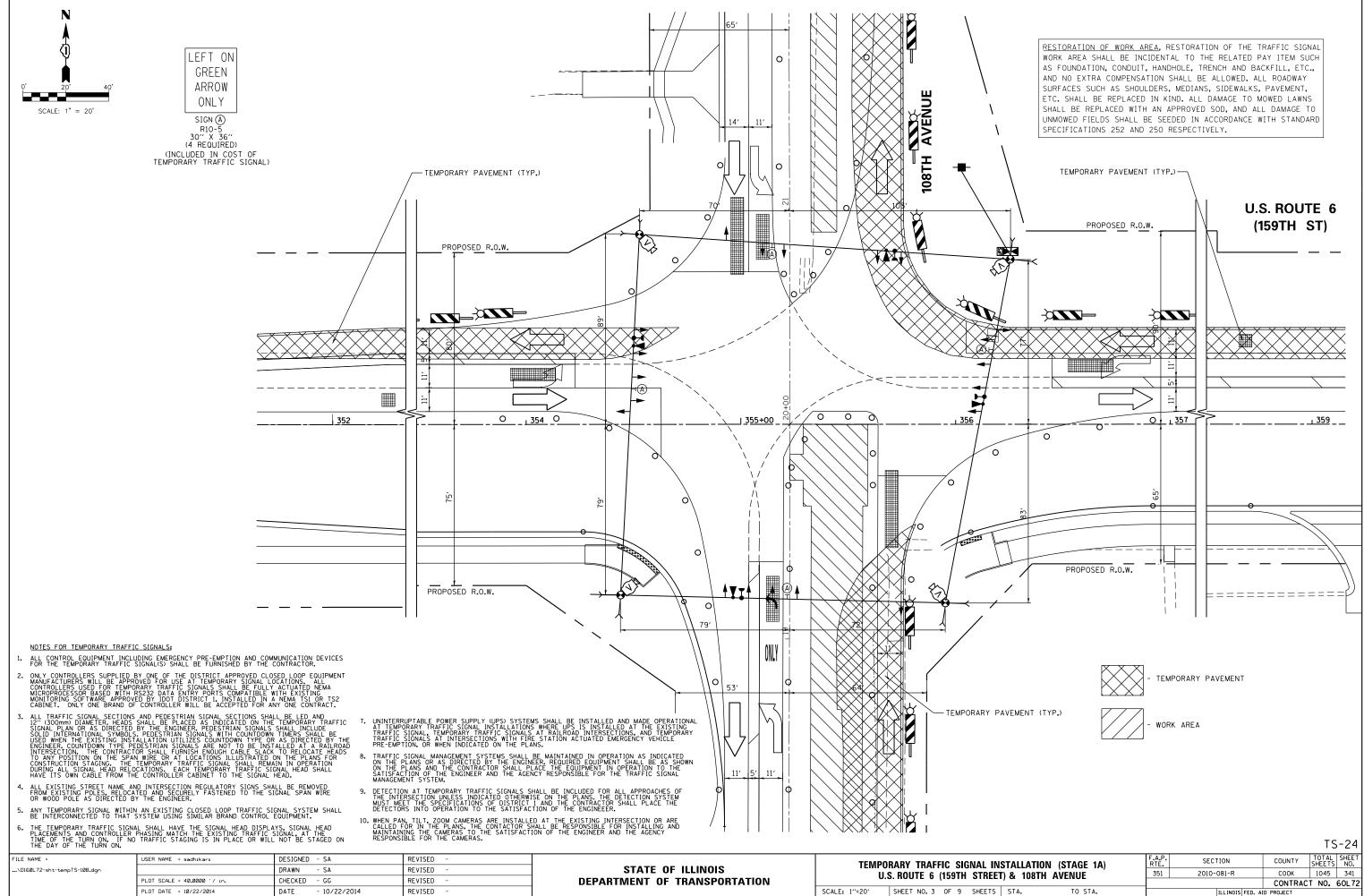


RNIZATION PLAN		F.A.P. RTE.	SECTION	COUNTY	SHEETS	SHEET NO.			
v	WOLF RD			2010-081-R	СООК	1045	337		
					CONTRAC	T NO.	60L72		
•	STA.	TO STA.		ILLINOIS FED. AID PROJECT					

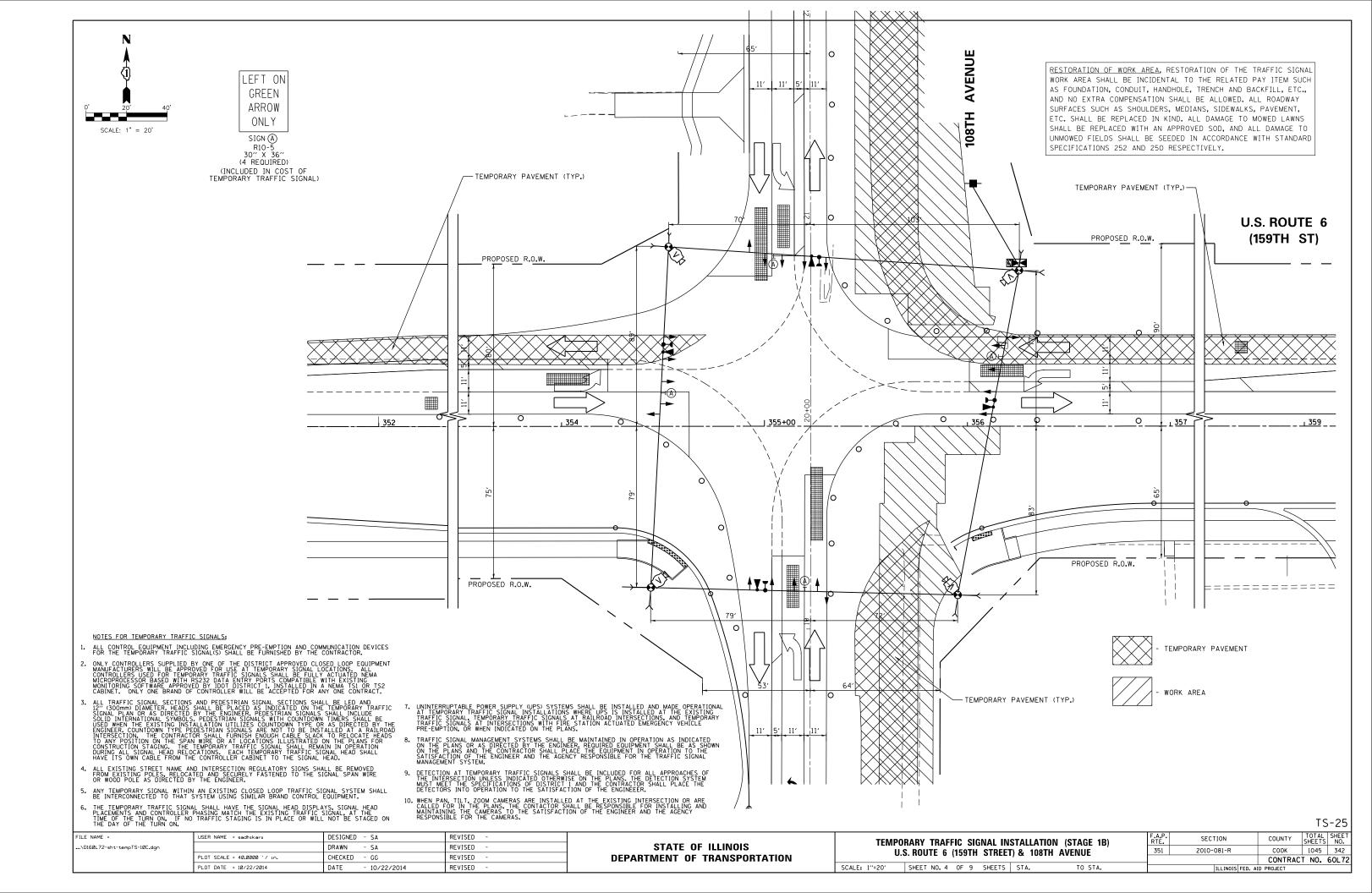


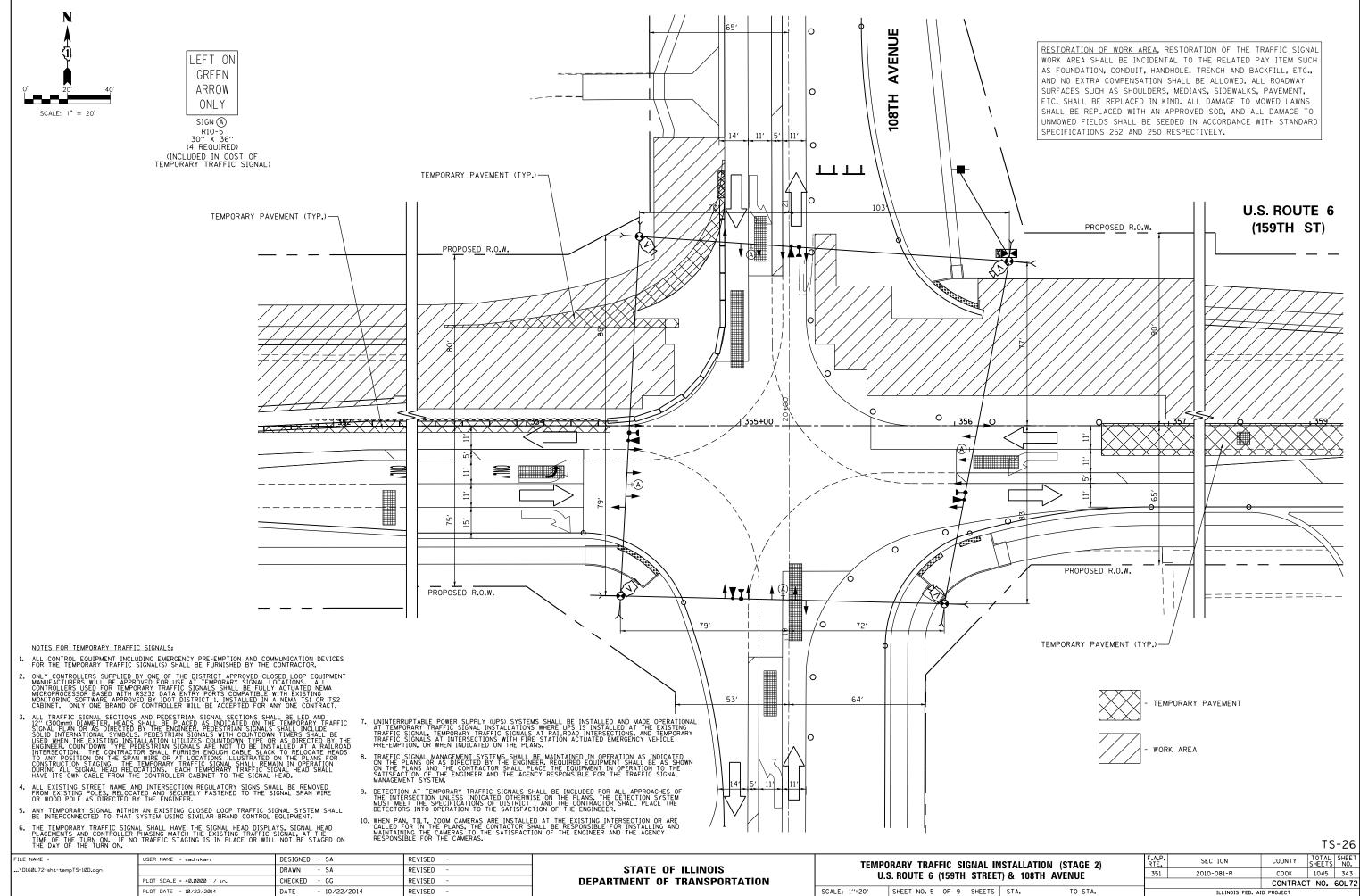




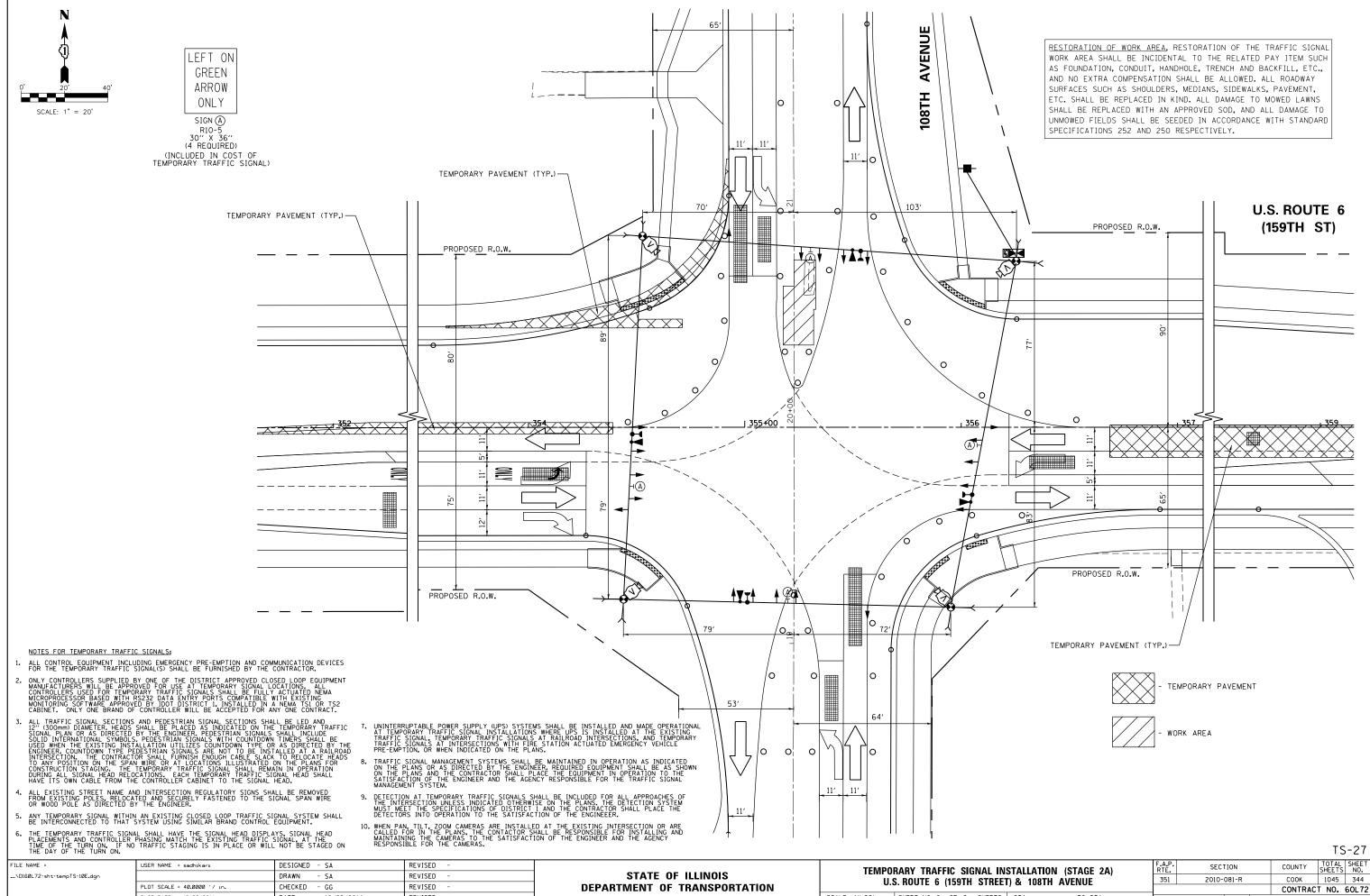


KANSPUKTATIUN			•
	SCALE: 1"=20'	SHEET NO. 3	0F 9





		•	CONTRACT	NO.	6	
S STA.		TO STA.	ILLINOIS FED. A	ID PROJECT		_



PLOT DATE = 10/22/2014

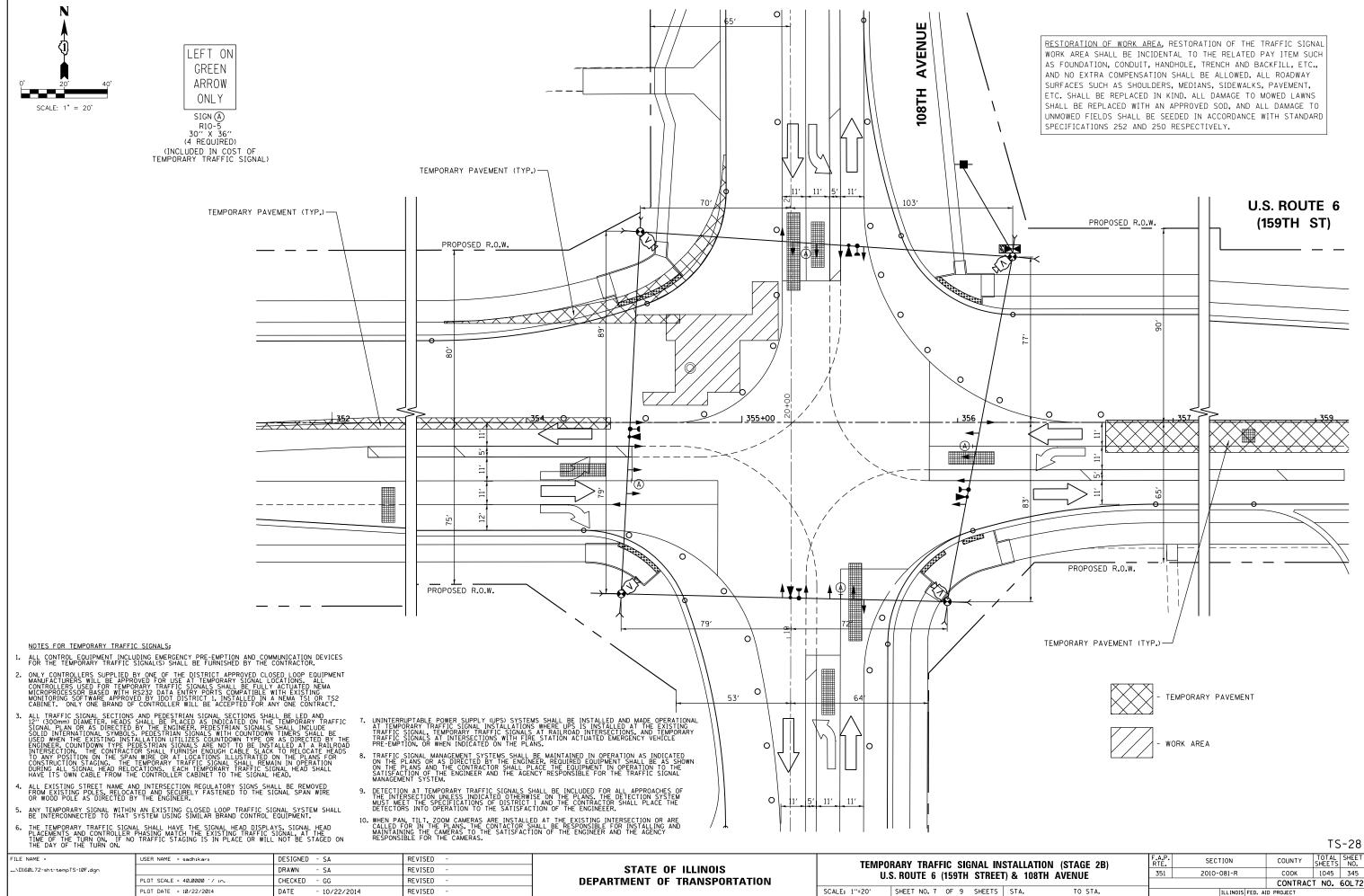
DATE

- 10/22/2014

REVISED

SCALE: 1"=20' SHEET NO. 6 OF 9 SHEETS

	I/ & IUDIII AVLINUL					_			_
						CONTRACT	NO.	6	
	STA.	TO STA.		ILLINOIS	FED.	AID	PROJECT		_



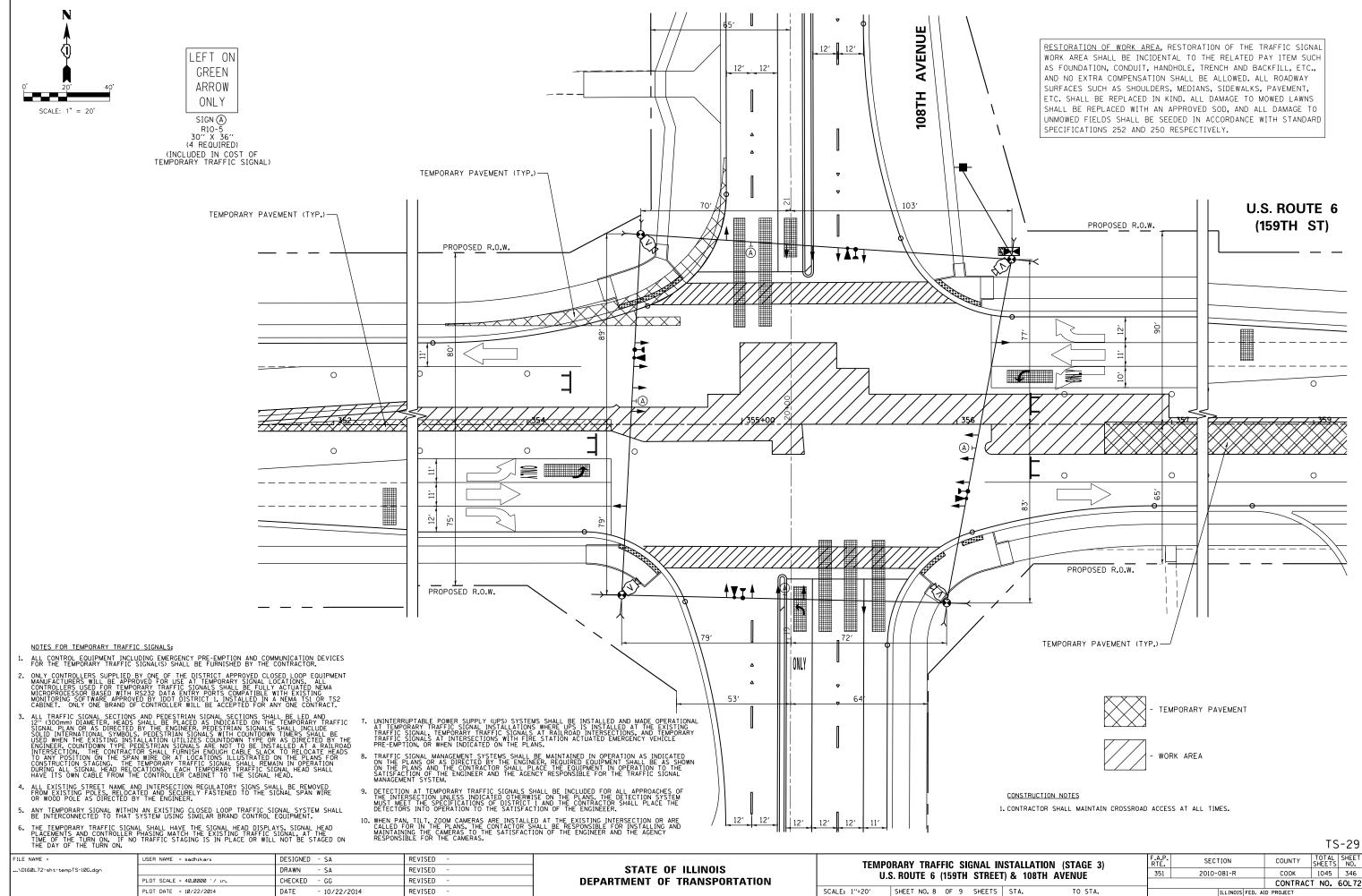
PLOT DATE = 10/22/2014

DATE

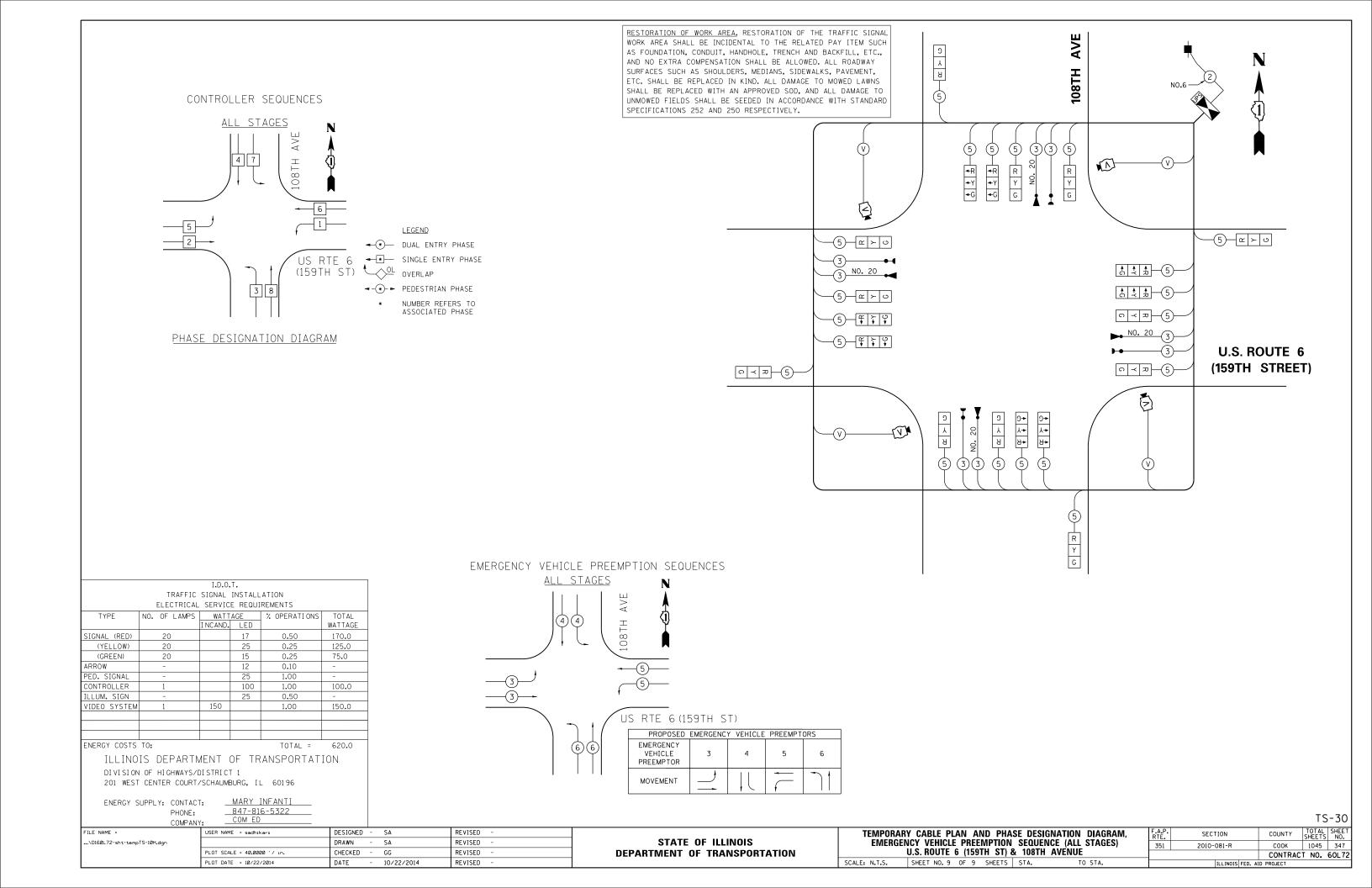
- 10/22/2014

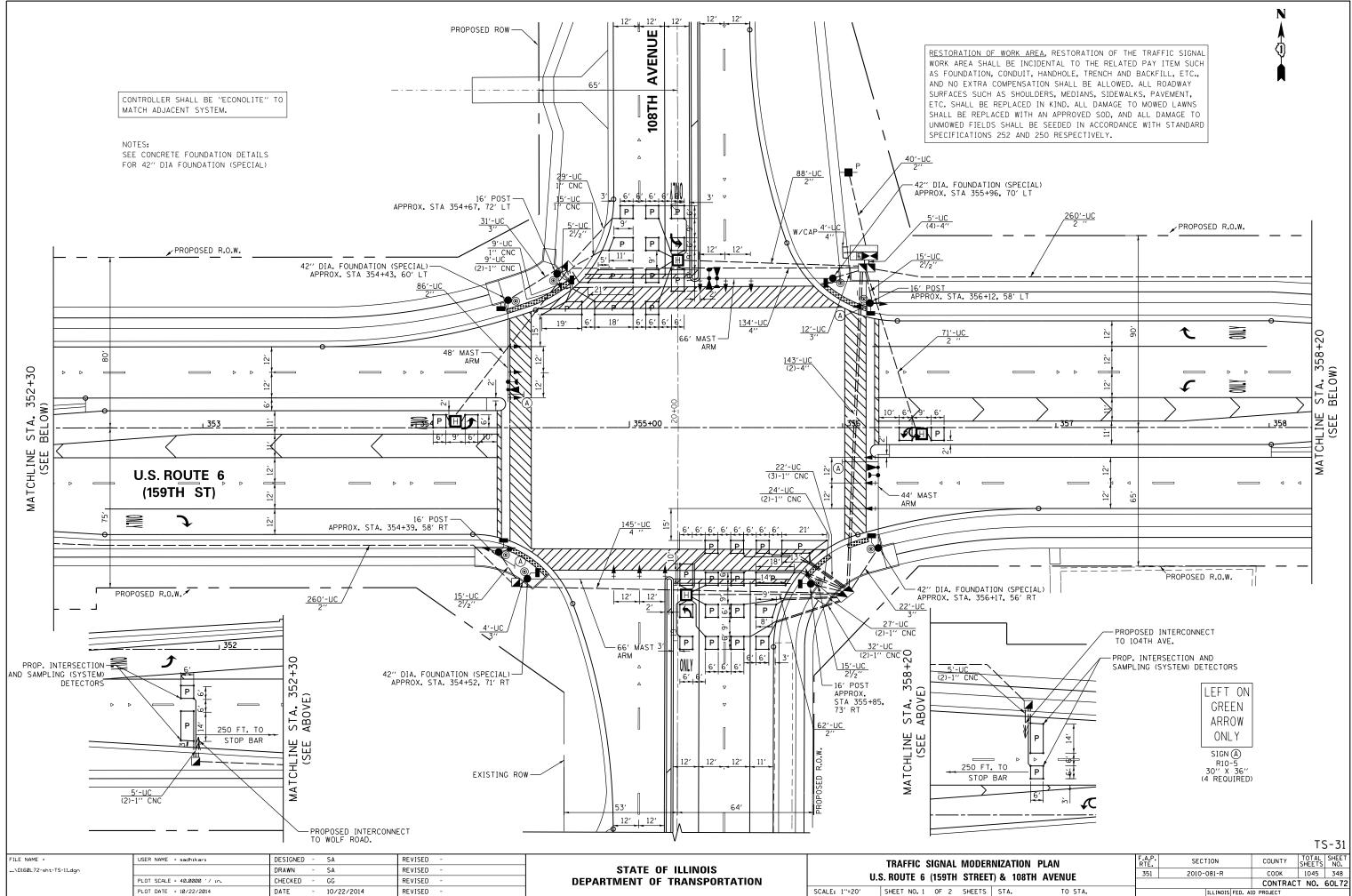
REVISED

ET	ET) & 108TH AVENUE		351	2010-	081-R		COOK	1045	345
_	,						CONTRAC	T NO.	60L72
S	STA.	TO STA.			ILLINOIS	FED. A	D PROJECT		

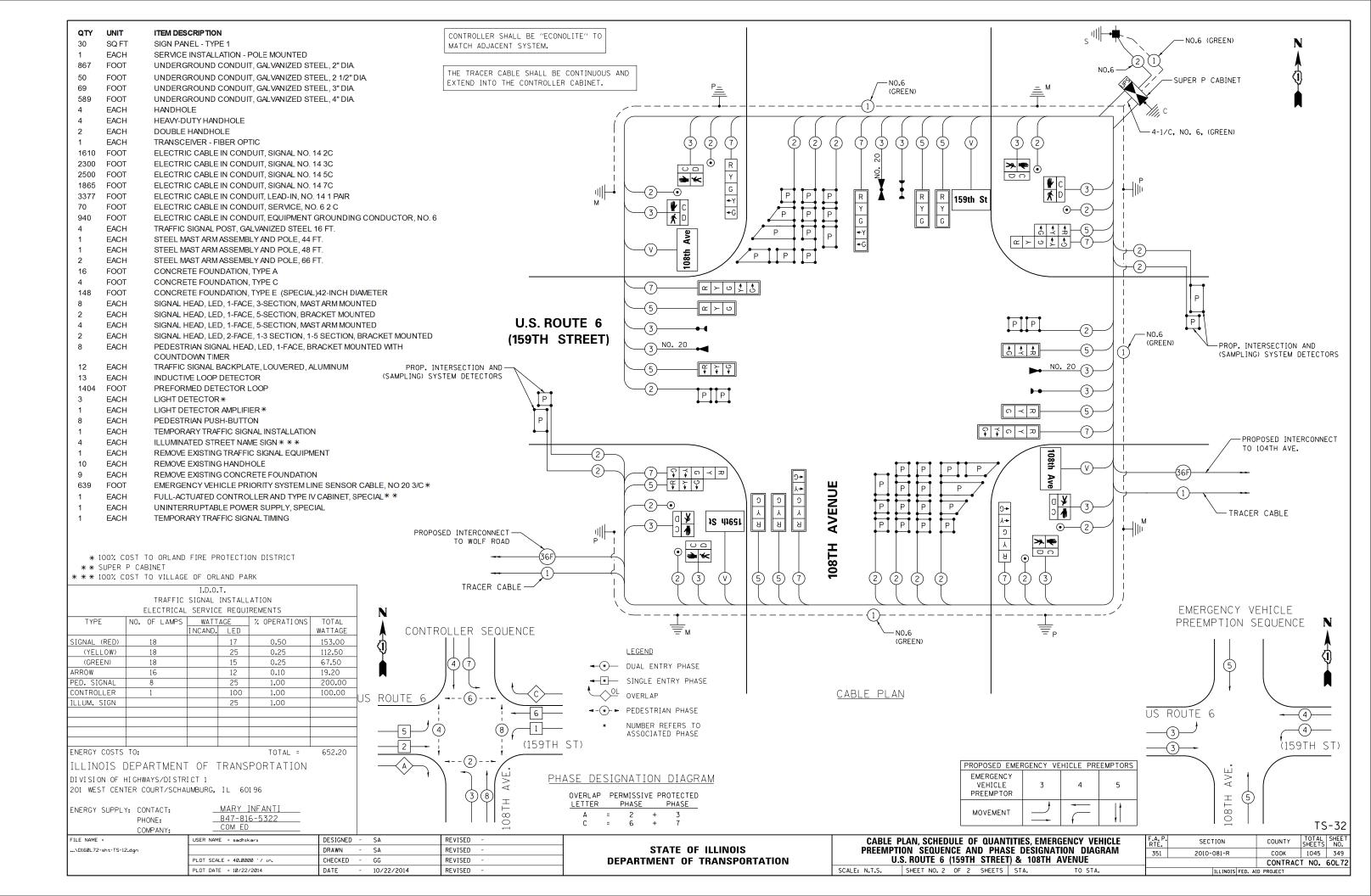


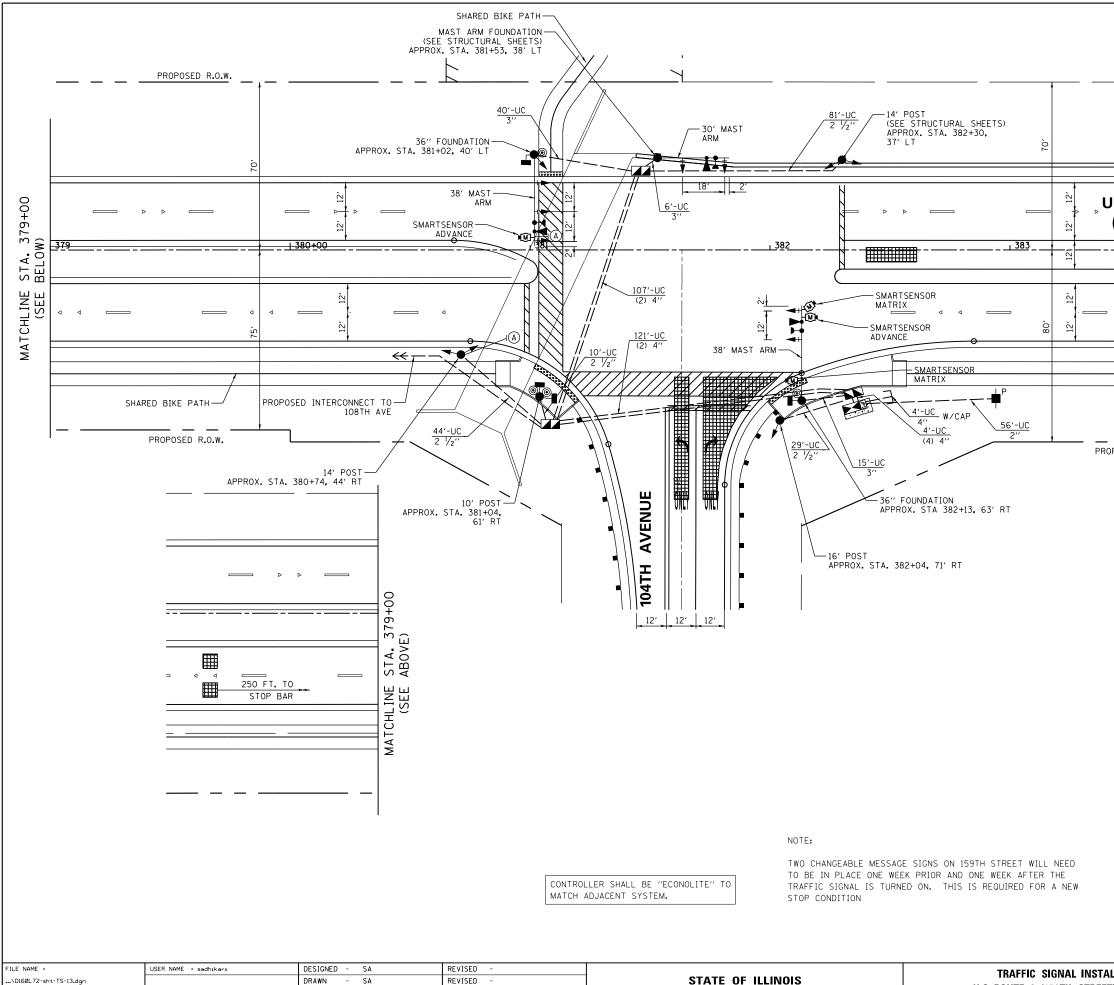
IN	STALLATION (STAGE 3)	RTE.	SECTION		COUNTY	SHEETS	NO.
	T) & 108TH AVENUE		351 2010-081-R		СООК	1045	346
EI) & 1081H AVENUE					CONTRAC	T NO.	60L72
5	STA. TO STA.		ILLINOIS	S FED. A	D PROJECT		





R	RNIZATION PLAN ET) & 108TH AVENUE			SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
FT				2010-081-R	СООК	1045	348	
		UTIT AVENUE	_		CONTRAC	T NO.	60L72	
5	STA.	TO STA.	ILLINOIS FED. AID PROJECT					



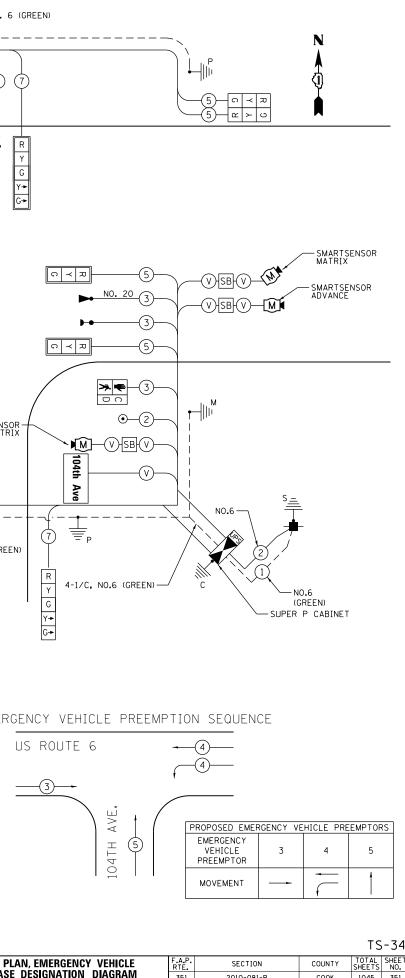


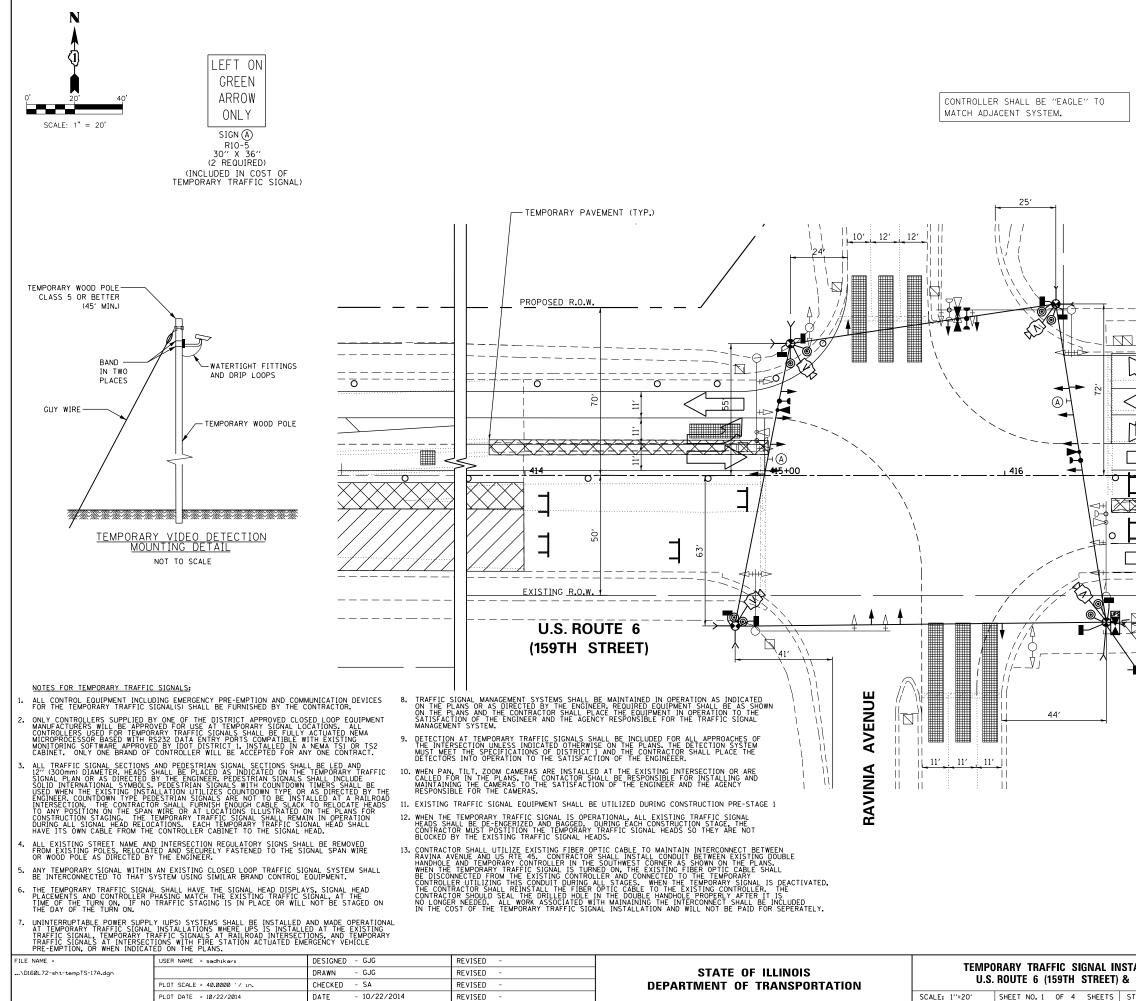
E NAME = D160L72-sht-TS-13.dgn	USER NAME = sadhıkarı	DESIGNED - SA DRAWN - SA	REVISED - REVISED -	STATE OF ILLINOIS		TRAFFIC SIGNAL INSTAL
	PLOT SCALE = 40.0000 ' / in.	CHECKED - GG	REVISED -	DEPARTMENT OF TRANSPORTATION	U.:	S. ROUTE 6 (159TH STREET)
	PLOT DATE = 10/22/2014	DATE - 10/22/2014	REVISED -		SCALE: 1"=20'	SHEET NO. 1 OF 2 SHEETS

			N		
EXIST	ING R.	0.W.	V		
					-
/ RETAINING					
/ WALL					
					=
		250 FT.		₿	
U.S <u>. R</u> OUTE 6 ، (159TH ST)	⊳	STOP		D D	
.384				1	
44				<	
	_				1
⊐ 4 4 ── ─		<			_
					-
ROPOSED R.O.W.					
					I
LEFT ON					
GREEN ARROW					
ONLY					
SIGN (A) R10-5					
30" X 36" (2 REQUIRED)					
RESTORATION OF WORK AREA, R WORK AREA SHALL BE INCIDENT					
AS FOUNDATION, CONDUIT, HAND AND NO EXTRA COMPENSATION S					
SURFACES SUCH AS SHOULDERS, ETC. SHALL BE REPLACED IN KI					
SHALL BE REPLACED WITH AN A UNMOWED FIELDS SHALL BE SEE	DED IN	ACCORDANCE WITH S			
SPECIFICATIONS 252 AND 250 F	RESPEC	TIVELY.			
				TS	-33
ALLATION PLAN	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
ET) & 104TH AVENUE	351	2010-081-R	COOK CONTRAC	1045 TNO.	350 60L72

TO STA. S STA. ILLINOIS FED. AID PROJECT

QTY UNIT 2 CAL M 15 SQ FT 1 EACH	ITEM DESCRIPTION IO CHANGEABLE MESSAGE SIGN				
15 SQ FT	10 CHANGEABLE MESSAGE SIGN			MNO. 6 (GREEN)	
			ONTINUOUS AND EXTEND INTO THE	<u>=</u> MNO. 6 (GREEN)	
		CONTROLLER CABINET.		+	N
56 FOOT	UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.				
164 FOOT	UNDERGROUND CONDUIT, GALVANIZED STEEL, 2 1/2" DIA.				l ⊷∥∥
61 FOOT	UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	CONTROLLER SHALL BE "ECONOLI		(V) (5) (3) (3) (7)	
476 FOOT	UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	MATCH ADJACENT SYSTEM.			
3 EACH	DOUBLE HANDHOLE	MATCH ADDACENT STOTEM.			
1 EACH	TRANSCEIVER - FIBER OPTIC				<u> </u>
729 FOOT	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C				<u></u>
1541 FOOT	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C				
3135 FOOT	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C			159th St	
404 FOOT	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C				
86 FOOT	ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C		(159TH STREET)	GG	
950 FOOT	ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUC	CTOR, NO. 6		L⊒ Y→	
1 EACH	TRAFFIC SIGNAL POST, GALVANIZED STEEL 10 FT.			G+	
2 EACH	TRAFFIC SIGNAL POST, GALVANIZED STEEL 14 FT.				
1 EACH	TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.		(5) $(\alpha \succ \circ)$		
1 EACH	STEEL MAST ARM ASSEMBLY AND POLE, 30 FT.				
2 EACH	STEEL MAST ARM ASSEMBLY AND POLE, 38 FT.				
12 FOOT	CONCRETE FOUNDATION, TYPE A	SMAR	ADVANCE		✓── SMARTSENSOR
4 FOOT	CONCRETE FOUNDATION, TYPE C				MATRIX
22 FOOT	CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER			ר ⊂ אדר (5)	
6 EACH	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED				SMARTSENSOR
1 EACH	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED			▶ <u>N0. 20</u> 3	ADVANCE
1 EACH	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED		!		
1 EACH			!	▶	
2 EACH			NO. 6 (GREEN)		Y Y
2 EACH		TH		[□ →] → (5)	
	COUNTDOWN TIMER				′
1 EACH	PEDESTRIAN SIGNAL HEAD, LED, 2-FACE, BRACKET MOUNTED W	ТН	<u>+</u>		
	COUNTDOWN TIMER				
7 EACH					
3 EACH					<u>ч.м</u>
1 EACH	LIGHT DETECTOR AMPLIFIER *	IRACI			
4 EACH	PEDESTRIAN PUSH-BUTTON			SMARTSENSOR (O-2)	
3 EACH	ILLUMINATED STREET NAME SIGN * * *			SMARTSENSOR MATRIX	
796 FOOT	EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, N	O 20 3/C *			
2 EACH	MICROWAVE VEHICLE SENSOR (SMARTSENSOR AD VANCE)				
2 EACH	MICROWAVE VEHICLE SENSOR (SMARTSENSOR MATRIX)				
1 EACH	FULL-ACTUATED CONTROLLER AND TYPE IV CABINET, SPECIAL *				
1 EACH	UNINTERRUPTABLE POWER SUPPLY, SPECIAL	PROPOSED INTERCONNE		0 1	
		TO 108TH A	VE.		
			`		
				NO. 6 (GREEN)	
					$\langle \mathbf{X} \rangle = \langle \mathbf{X} \rangle$
				4-1/C, NO.6 (GREEN)	
				4-1/C, NO.6 (GREEN)	∖ <u></u> N0.6
					GREEN)
					∖ <u></u> N0.6
* 100% 0	AST TO ODI AND FIDE DEOTECTION DISTRICT				GREEN)
	COST TO ORLAND FIRE PROTECTION DISTRICT				
* * SUPER	P CABINET				(GREEN)
* * SUPER	P CABINET COST TO VILLAGE OF ORLAND PARK				(GREEN)
* * SUPER	P CABINET COST TO VILLAGE OF ORLAND PARK I.D.O.T.				GREEN)
* * SUPER	P CABINET COST TO VILLAGE OF ORLAND PARK I.D.O.T. TRAFFIC SIGNAL INSTALLATION				(GREEN)
* * SUPER * * 100% C	P CABINET COST TO VILLAGE OF ORLAND PARK I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS				(GREEN)
* * SUPER	P CABINET COST TO VILLAGE OF ORLAND PARK I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS NO. OF LAMPS WATTAGE % OPERATIONS TOTAL	CONTROLLER SEQUENCE		CABLE PLAN G→	SUPER P CABINET
* * SUPER * * * 100% C	P CABINET COST TO VILLAGE OF ORLAND PARK I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REOUIREMENTS NO. OF LAMPS WATTAGE % OPERATIONS TOTAL INCAND. LED WATTAGE				SUPER P CABINET
* * SUPER * * * 100% C	P CABINET COST TO VILLAGE OF ORLAND PARK I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS NO. OF LAMPS WATTAGE INCAND. LED '' OPERATIONS TOTAL WATTAGE 1 13 17 0.50 110.5	CONTROLLER SEQUENCE	LEGEND	CABLE PLAN CABLE PLAN C+ CABLE PLAN	SUPER P CABINET
* * SUPER * * * 100% C TYPE SIGNAL (RED) (YELLOW)	P CABINET COST TO VILLAGE OF ORLAND PARK I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS NO. OF LAMPS WATTAGE 13 17 0.50 110.5 13 25 0.25 81.25	US ROUTE 6		CABLE PLAN CABLE PLAN C+ CABLE PLAN	SUPER P CABINET
* * SUPER * * * 100% C TYPE SIGNAL (RED) (YELLOW) (GREEN)	P CABINET COST TO VILLAGE OF ORLAND PARK I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS NO. OF LAMPS WATTAGE '. OPERATIONS TOTAL WATTAGE 13 17 0.50 110.5 13 25 0.25 81.25 13 15 0.25 48.75	US ROUTE 6 4 - 6 6 6	• DUAL ENTRY PHASE	CABLE PLAN G→	SUPER P CABINET
* * SUPER * * * 100% C TYPE SIGNAL (RED) (YELLOW) (GREEN) ARROW	P CABINET COST TO VILLAGE OF ORLAND PARK I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS NO. OF LAMPS NO. OF LAMPS NO. OF LAMPS 10 CAND 10 CAND		-④— DUAL ENTRY PHASE -€■— SINGLE ENTRY PHASE	CABLE PLAN CABLE PLAN C+ CABLE PLAN	SUPER P CABINET
* * SUPER * * * 100% C TYPE SIGNAL (RED) (YELLOW) (GREEN) ARROW PED. SIGNAL	Motor Matter Matter </th <th>US ROUTE 6 4 6 4 1 4 6 4 4 4 4 4 4 4 4 4 4 4 4 4</th> <th>-④— DUAL ENTRY PHASE -€■— SINGLE ENTRY PHASE</th> <th>CABLE PLAN CABLE PLAN C+ CABLE PLAN</th> <th>SUPER P CABINET</th>	US ROUTE 6 4 6 4 1 4 6 4 4 4 4 4 4 4 4 4 4 4 4 4	-④— DUAL ENTRY PHASE -€■— SINGLE ENTRY PHASE	CABLE PLAN CABLE PLAN C+ CABLE PLAN	SUPER P CABINET
* * SUPER * * 100% C TYPE SIGNAL (RED) (YELLOW) (GREEN) ARROW PED. SIGNAL CONTROLLER	Motor Matter Mater <th></th> <th>-⊙— DUAL ENTRY PHASE -⊡— SINGLE ENTRY PHASE -<∕─^{OL} OVERLAP</th> <th>CABLE PLAN CABLE PLAN C+ CABLE PLAN</th> <th>SUPER P CABINET</th>		-⊙— DUAL ENTRY PHASE -⊡— SINGLE ENTRY PHASE -<∕─ ^{OL} OVERLAP	CABLE PLAN CABLE PLAN C+ CABLE PLAN	SUPER P CABINET
* * SUPER * * * 100% C TYPE SIGNAL (RED) (YELLOW) (GREEN) ARROW PED. SIGNAL	Motor Matter Matter </th <th></th> <th>-④— DUAL ENTRY PHASE -€■— SINGLE ENTRY PHASE</th> <th>CABLE PLAN CABLE PLAN C+ CABLE PLAN</th> <th>SUPER P CABINET</th>		-④— DUAL ENTRY PHASE -€■— SINGLE ENTRY PHASE	CABLE PLAN CABLE PLAN C+ CABLE PLAN	SUPER P CABINET
* * SUPER * * * 100% C TYPE SIGNAL (RED) (YELLOW) (GREEN) ARROW PED. SIGNAL CONTROLLER	Motor Matter Mater <th></th> <th>- ● DUAL ENTRY PHASE - ● SINGLE ENTRY PHASE - ● OVERLAP - ● PEDESTRIAN PHASE</th> <th>EMERGENCY VEHICLE PREED US ROUTE 6</th> <th>SUPER P CABINET</th>		- ● DUAL ENTRY PHASE - ● SINGLE ENTRY PHASE - ● OVERLAP - ● PEDESTRIAN PHASE	EMERGENCY VEHICLE PREED US ROUTE 6	SUPER P CABINET
* * SUPER * * 100% C TYPE SIGNAL (RED) (YELLOW) (GREEN) ARROW PED. SIGNAL CONTROLLER	Motor Matter Mater <th></th> <th> OUAL ENTRY PHASE INGLE ENTRY PHASE OUE OVERLAP → PEDESTRIAN PHASE NUMBER REFERS TO </th> <th>EMERGENCY VEHICLE PREED US ROUTE 6</th> <th>MPTION SEQUENCE</th>		 OUAL ENTRY PHASE INGLE ENTRY PHASE OUE OVERLAP → PEDESTRIAN PHASE NUMBER REFERS TO 	EMERGENCY VEHICLE PREED US ROUTE 6	MPTION SEQUENCE
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* * SUPER * * * 100% C TYPE SIGNAL (RED) (YELLOW) (GREEN) ARROW PED. SIGNAL CONTROLLER	P CABINET COST TO VILLAGE OF ORLAND PARK I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS NO. OF LAMPS WATTAGE % OPERATIONS TOTAL 13 17 0.50 110.5 13 17 0.25 81.25 13 15 0.25 48.75 4 12 0.10 4.8 4 25 1.00 100.0 1 100 1.00 100.0 2 0.50 25 0.50		 OUAL ENTRY PHASE INGLE ENTRY PHASE OUE OVERLAP → PEDESTRIAN PHASE NUMBER REFERS TO 	CABLE PLAN CABLE PLAN EMERGENCY VEHICLE PREED US ROUTE 6 US ROUTE 6	MPTION SEQUENCE
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* * SUPER * * 100% C TYPE SIGNAL (RED) (YELLOW) (GREEN) ARROW PED. SIGNAL CONTROLLER ILLUM. SIGN ENERGY COST ILL IN DI VI SI ON OF 201 WEST CEI	P CABINET COST TO VILLAGE OF ORLAND PARK I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS NO. OF LAMPS WATTAGE '. OPERATIONS TOTAL WATTAGE '. OPERATIONS TOTAL '. OPERATION TOTAL = 445.3 OIS DEPARTMENT OF TRANSPORTATION HIGHWAYS/DISTRICT 1 NTER COURT/SCHAUMBURG, IL 60196	US ROUTE 6	 OUAL ENTRY PHASE INGLE ENTRY PHASE OUE OVERLAP → PEDESTRIAN PHASE NUMBER REFERS TO 	CABLE PLAN CABLE PLAN EMERGENCY VEHICLE PREED US ROUTE 6 US ROUTE 6	MPTION SEQUENCE
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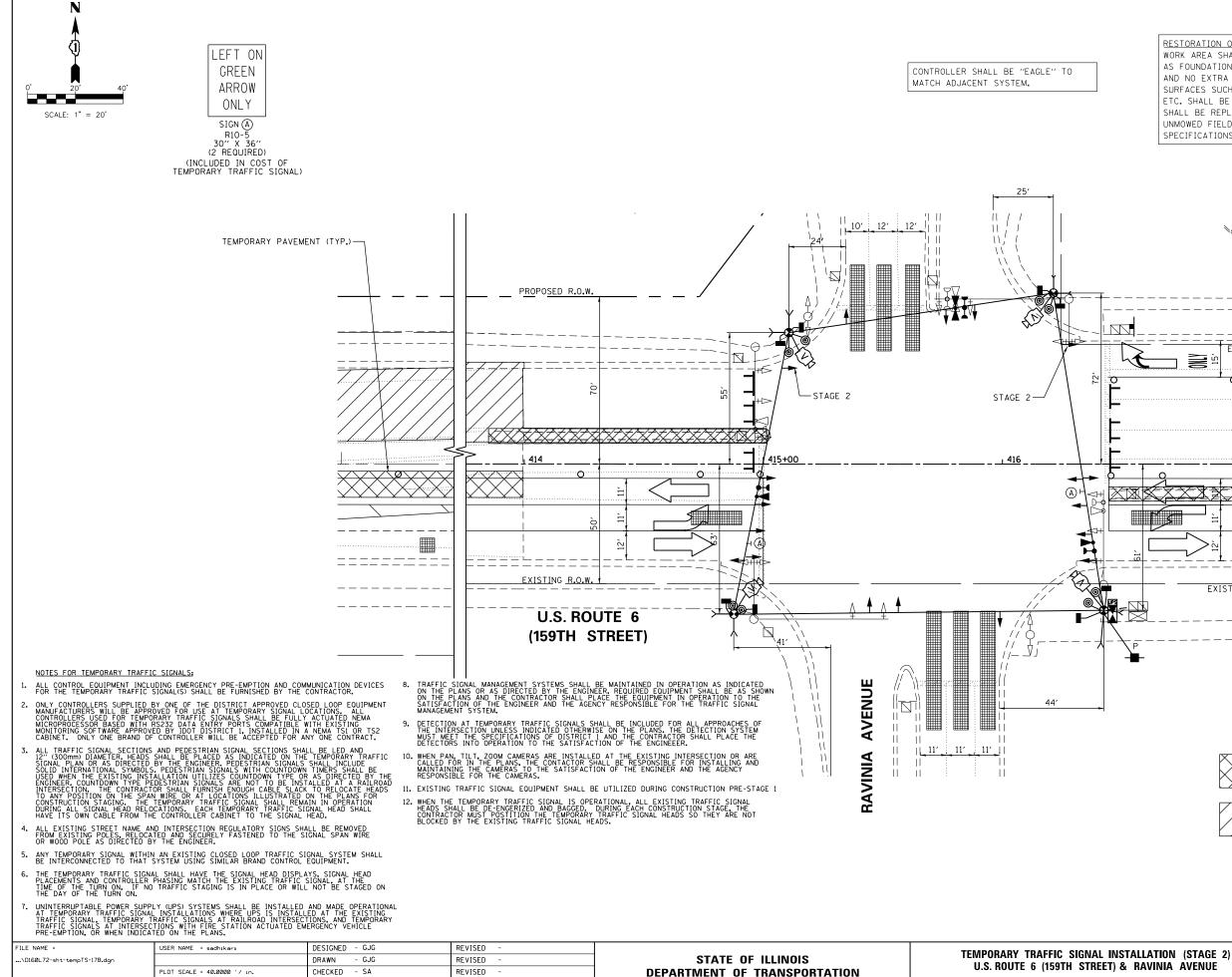
RESTORATION OF WORK AREA, RESTORATION OF THE TRAFFIC SIGNAL WORK AREA SHALL BE INCIDENTAL TO THE RELATED PAY ITEM SUCH AS FOUNDATION, CONDUIT, HANDHOLE, TRENCH AND BACKFILL, ETC., AND NO EXTRA COMPENSATION SHALL BE ALLOWED. ALL ROADWAY SURFACES SUCH AS SHOULDERS, MEDIANS, SIDEWALKS, PAVEMENT, ETC. SHALL BE REPLACED IN KIND. ALL DAMAGE TO MOWED LAWNS SHALL BE REPLACED WITH AN APPROVED SOD, AND ALL DAMAGE TO UNMOWED FIELDS SHALL BE SEEDED IN ACCORDANCE WITH STANDARD SPECIFICATIONS 252 AND 250 RESPECTIVELY. O _____ EXISTING R.O.W. 2 0 ò 0 0 0 XX EXXXXXXXXXXX 0 0 _____

P DRILL EX. HANDHOLE (1) P 10'-UC (SEE NOTE #13) 2'' (SEE NOTE #13)

- TEMPORARY PAVEMENT

TS-35

IN	INSTALLATION (STAGE 1) T) & RAVINIA AVENUE			SECTION	COUNTY	TOTAL SHEETS	SHEET NO.			
				2010-081-R	COOK	1045	352			
.,					CONTRAC	T NO.	60L72			
S	STA.	TO STA.		ILLINOIS FED. AID PROJECT						



- 10/22/2014

REVISED

DATE

PLOT DATE = 10/22/2014

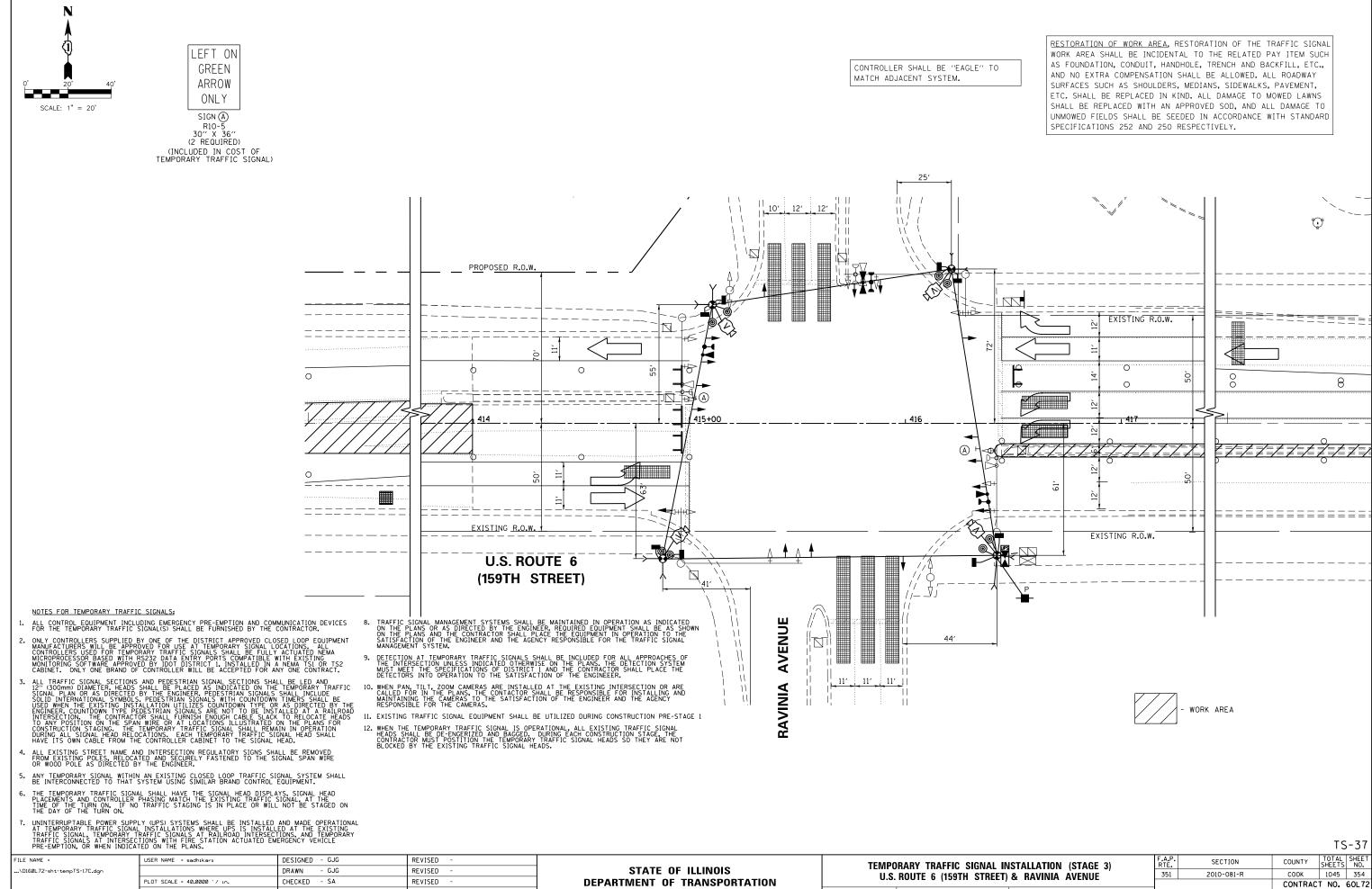
SCALE: 1"=20' SHEET NO. 2 OF 4 SHEETS STA.

SHEET NU. 2 UF 4 SHEE

TO STA.

RESTORATION OF WORK AREA, RESTORATION OF THE TRAFFIC SIGNAL WORK AREA SHALL BE INCIDENTAL TO THE RELATED PAY ITEM SUCH AS FOUNDATION, CONDUIT, HANDHOLE, TRENCH AND BACKFILL, ETC., AND NO EXTRA COMPENSATION SHALL BE ALLOWED. ALL ROADWAY SURFACES SUCH AS SHOULDERS, MEDIANS, SIDEWALKS, PAVEMENT, ETC. SHALL BE REPLACED IN KIND. ALL DAMAGE TO MOWED LAWNS SHALL BE REPLACED WITH AN APPROVED SOD, AND ALL DAMAGE TO UNMOWED FIELDS SHALL BE SEEDED IN ACCORDANCE WITH STANDARD SPECIFICATIONS 252 AND 250 RESPECTIVELY. O $\overline{\mathbf{N}}$ EXISTING R.O.W. 5 __________ EXISTING R.O.W. TEMPORARY PAVEMENT WORK AREA TS-36 TOTAL SHEET SHEETS NO. F.A.P. RTE. SECTION COUNTY 351 2010-081-R СООК 1045 353 CONTRACT NO. 60L72

TULINOIS FED ATD PROJECT



- 10/22/2014

REVISED

DATE

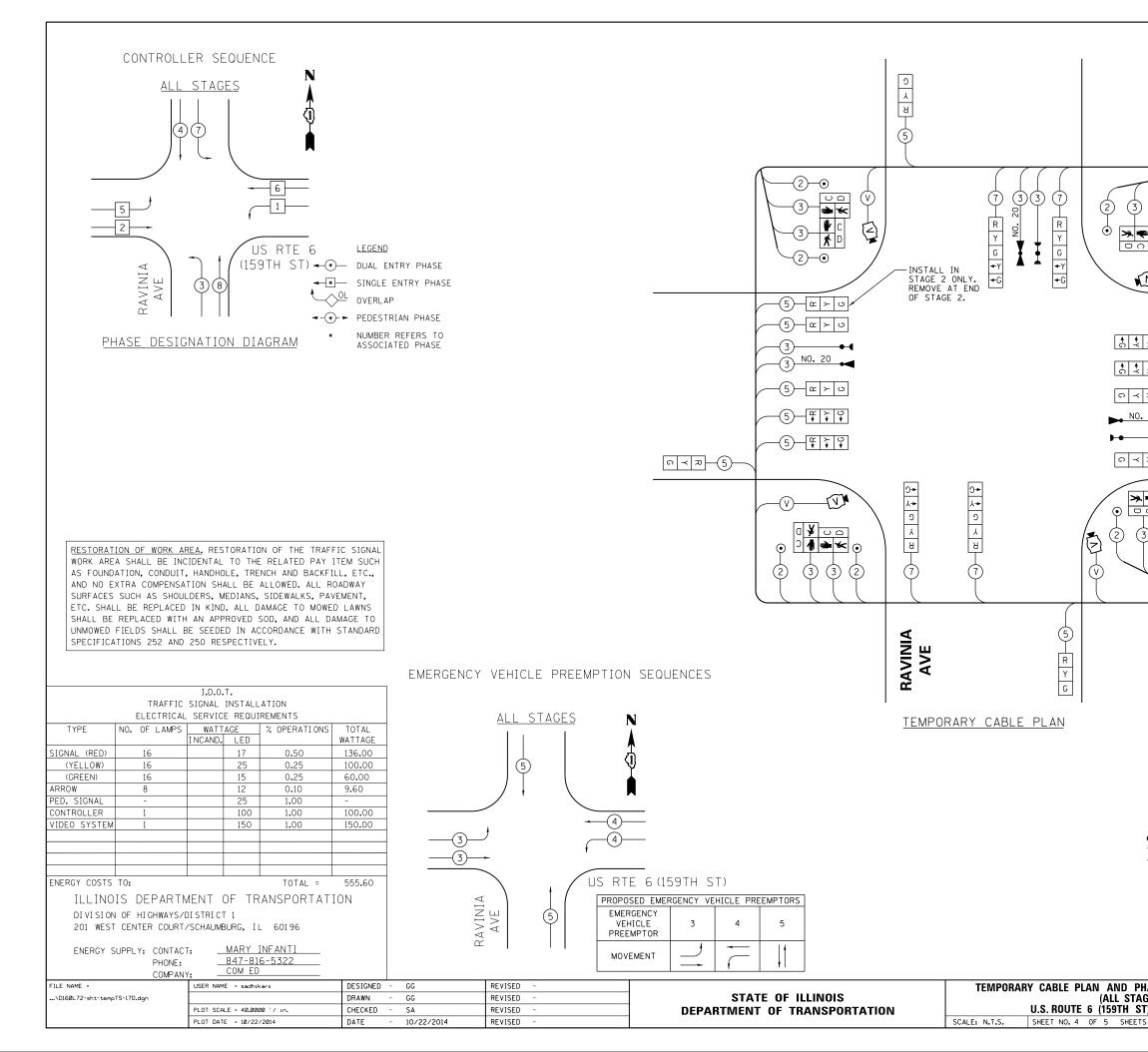
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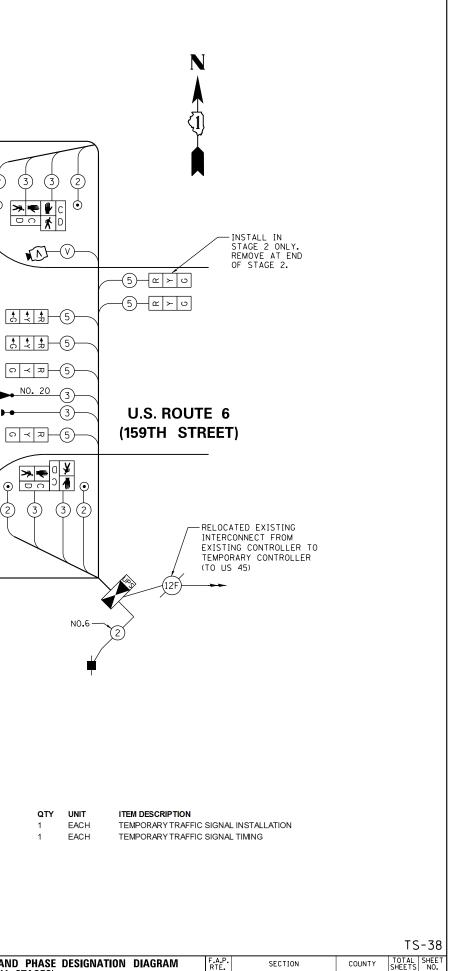
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SHEET NO. 5 OF 4 SHE

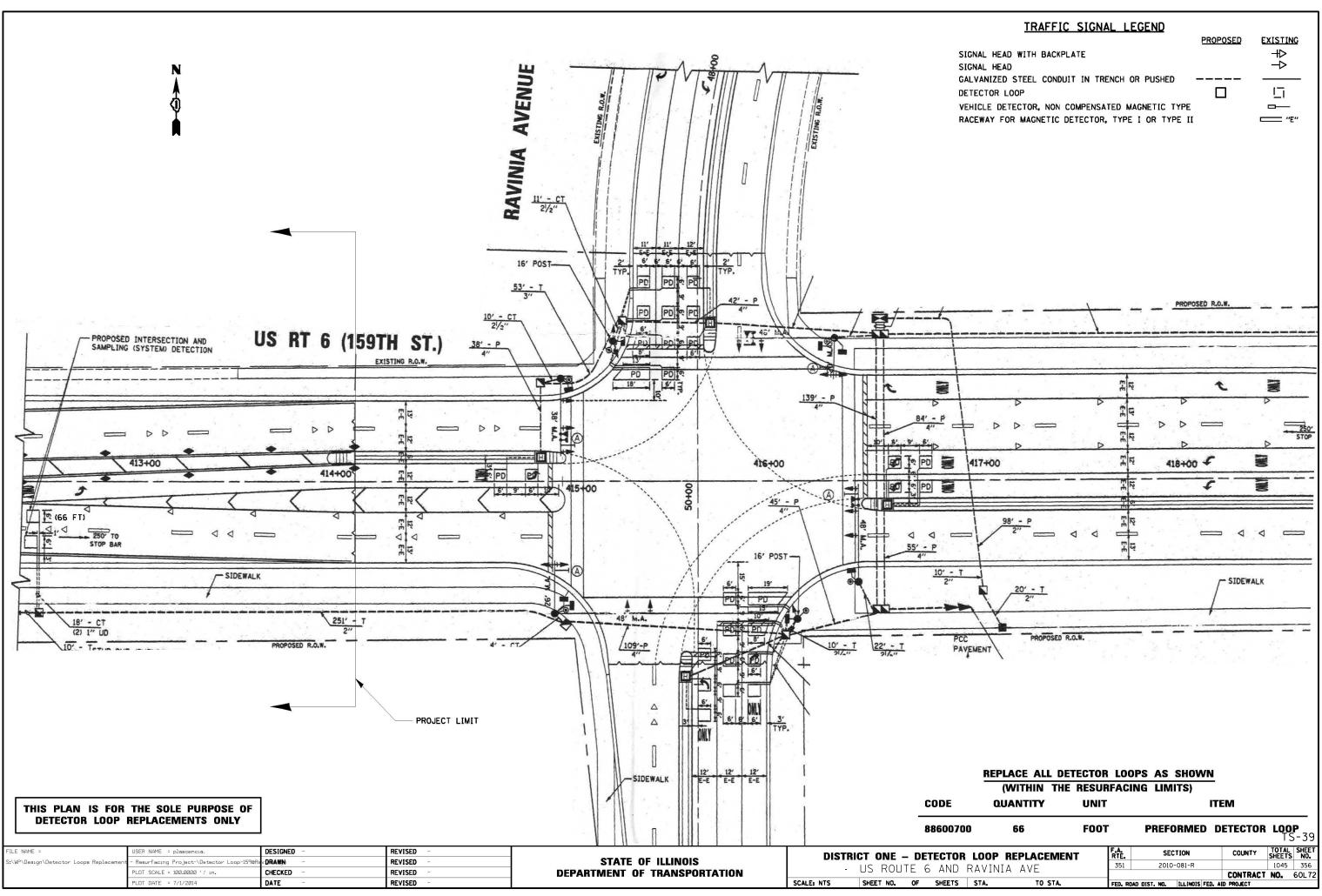
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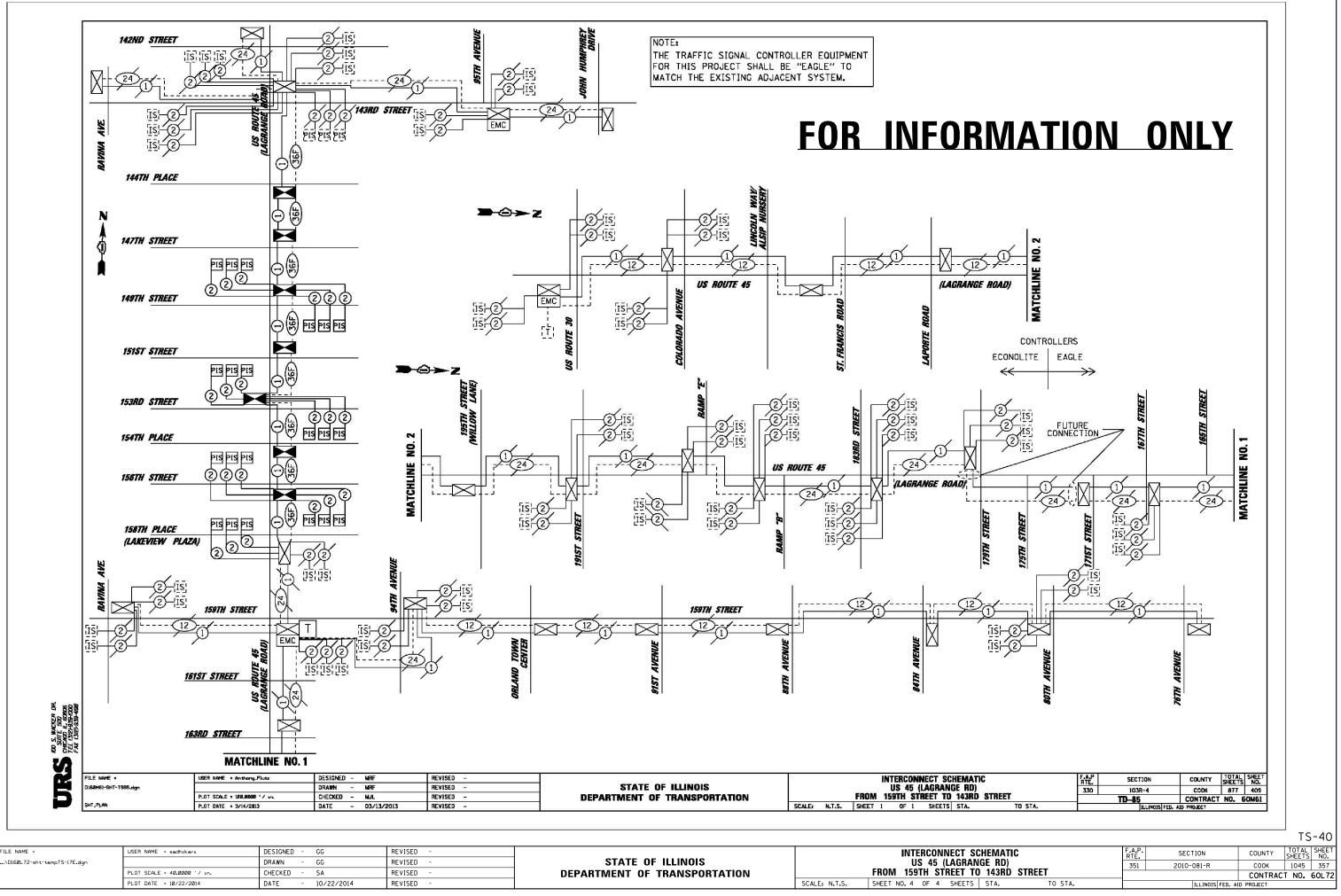
TULINOIS FED ATD PROJECT



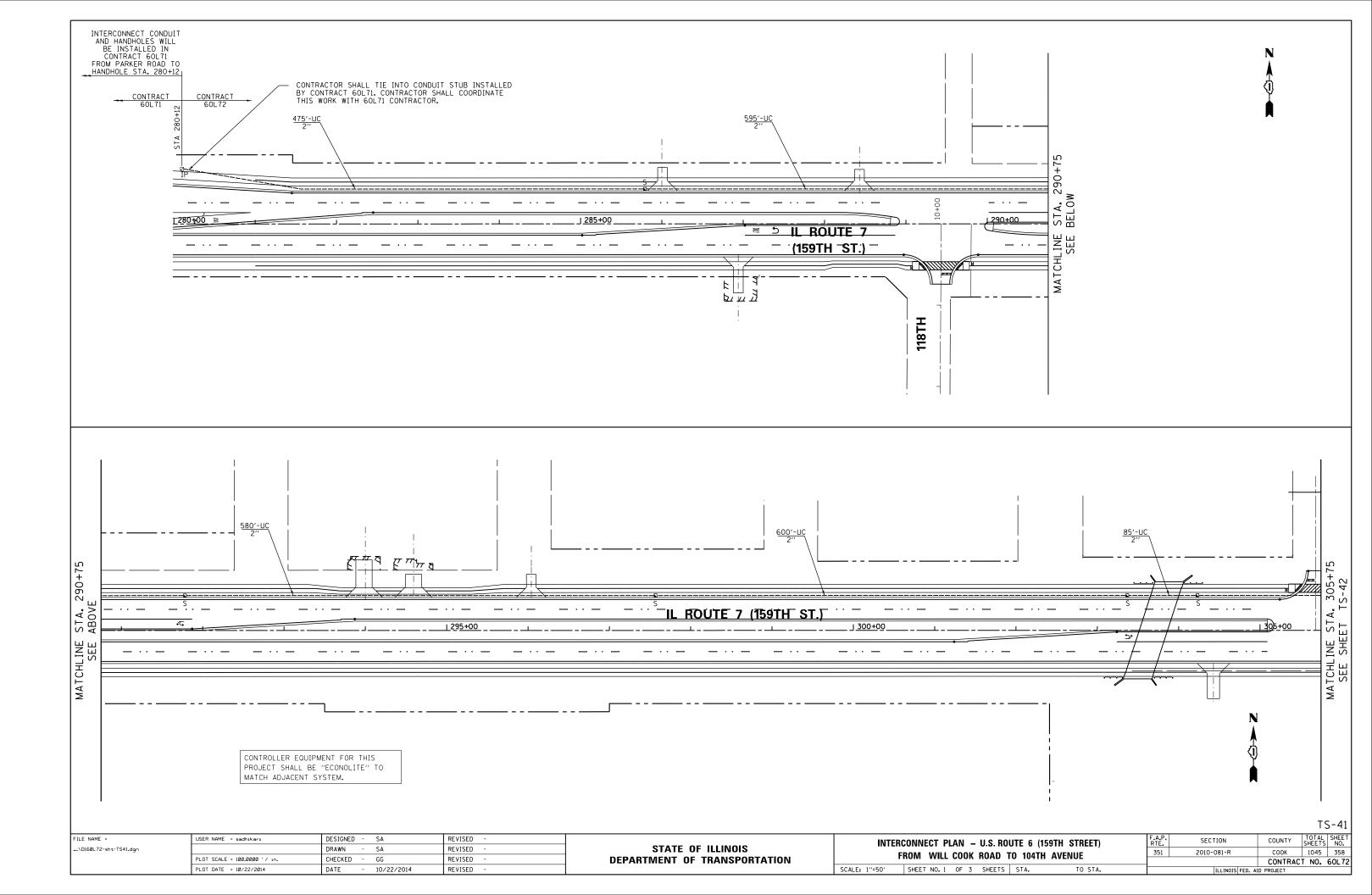


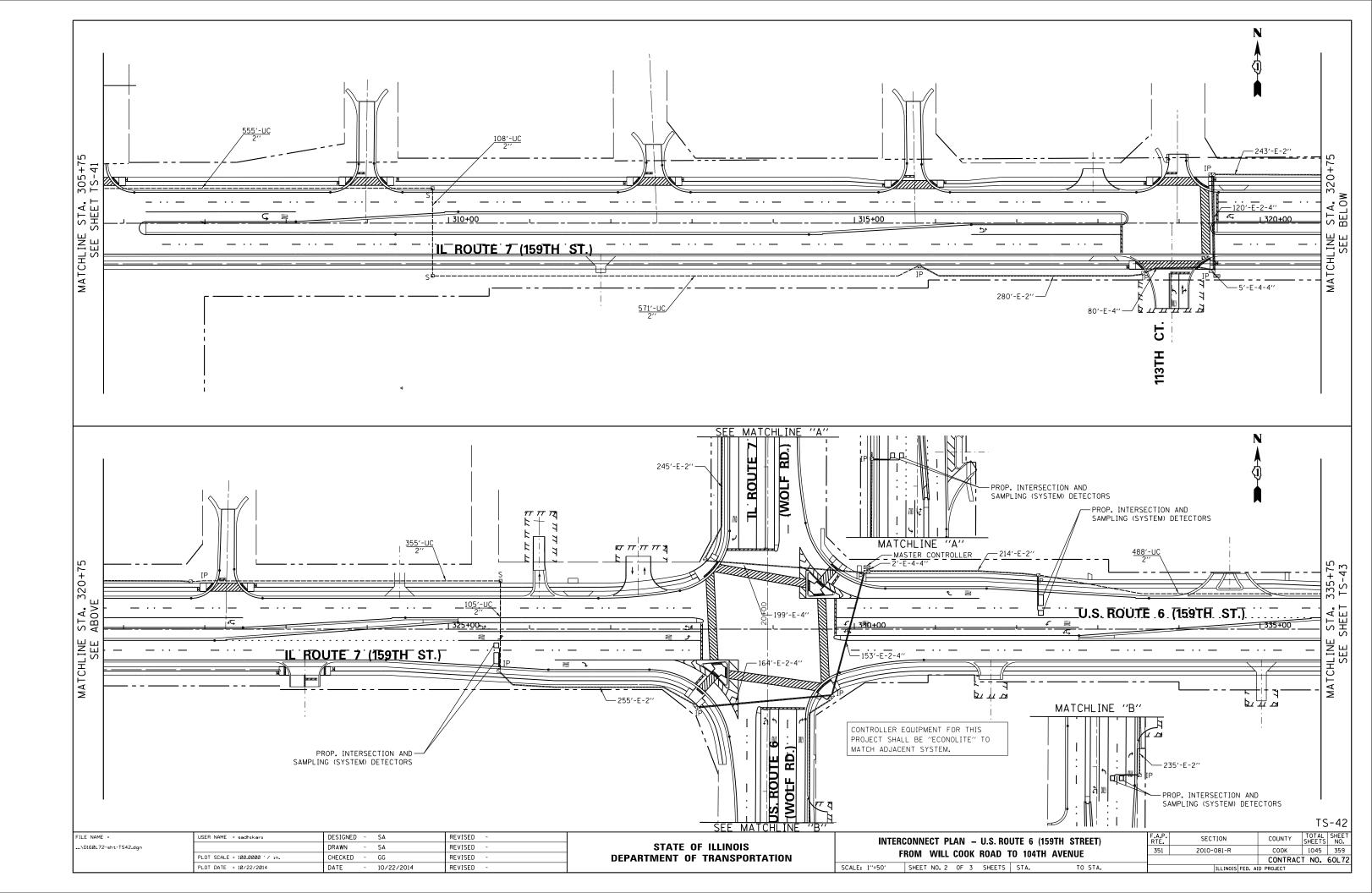
	SE DESIGNATION	DIAGRAM	F.A.P. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	SES)			2010-081-R	СООК	1045	355
F)					CONTRAC	T NO.	60L72
ŝ	STA. T	D STA.		ILLINOIS FED.	AID PROJECT		

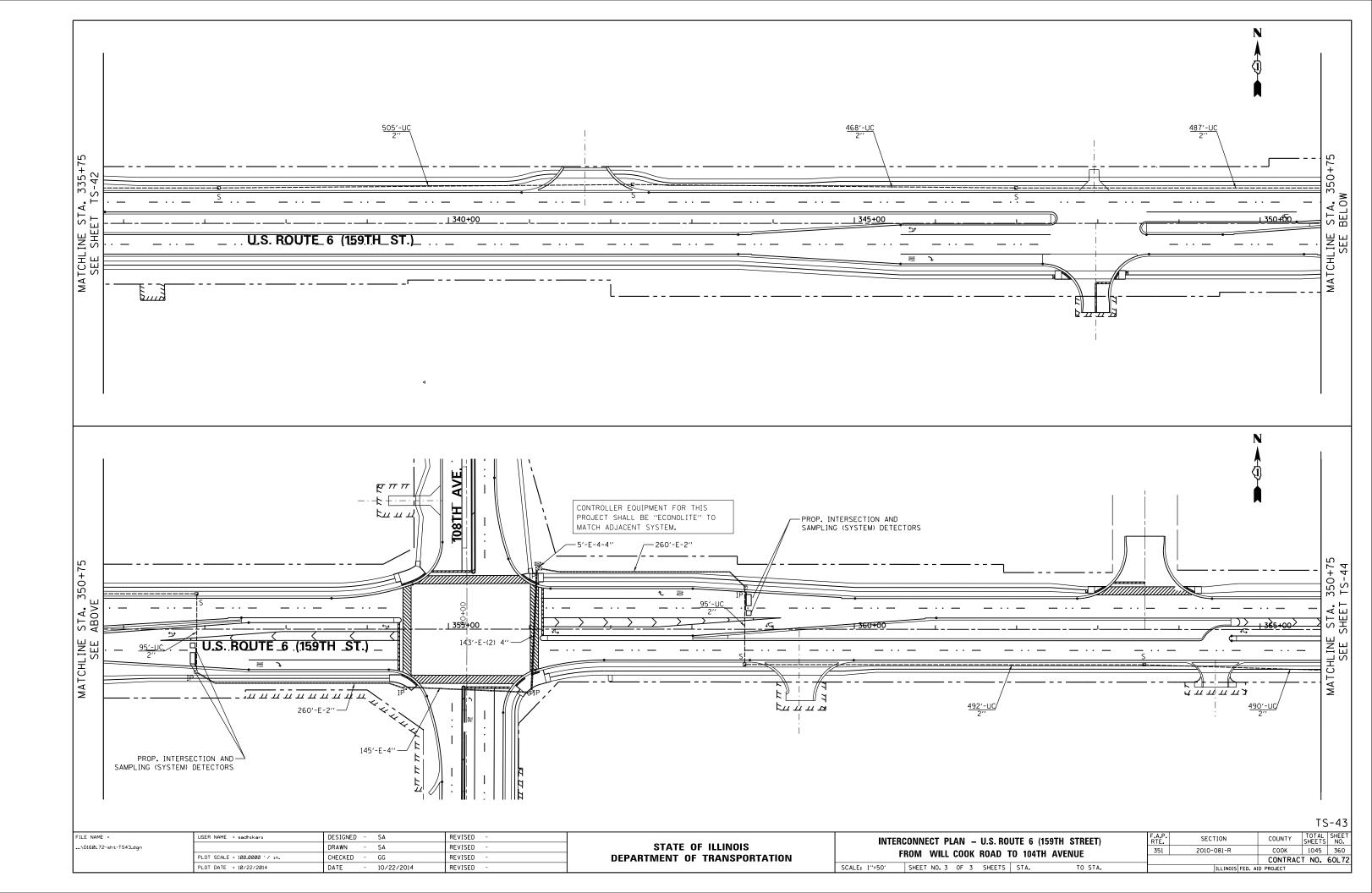


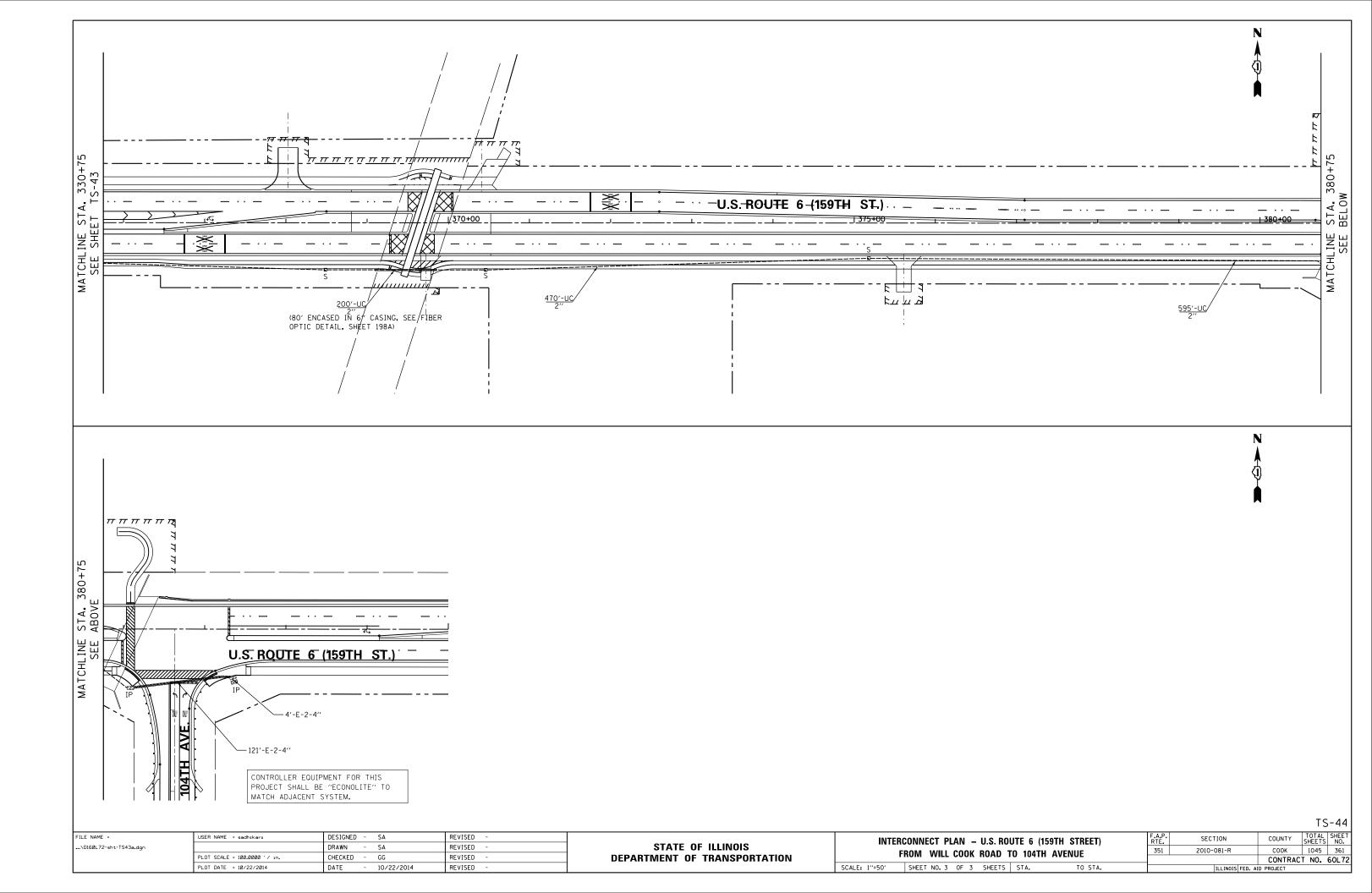


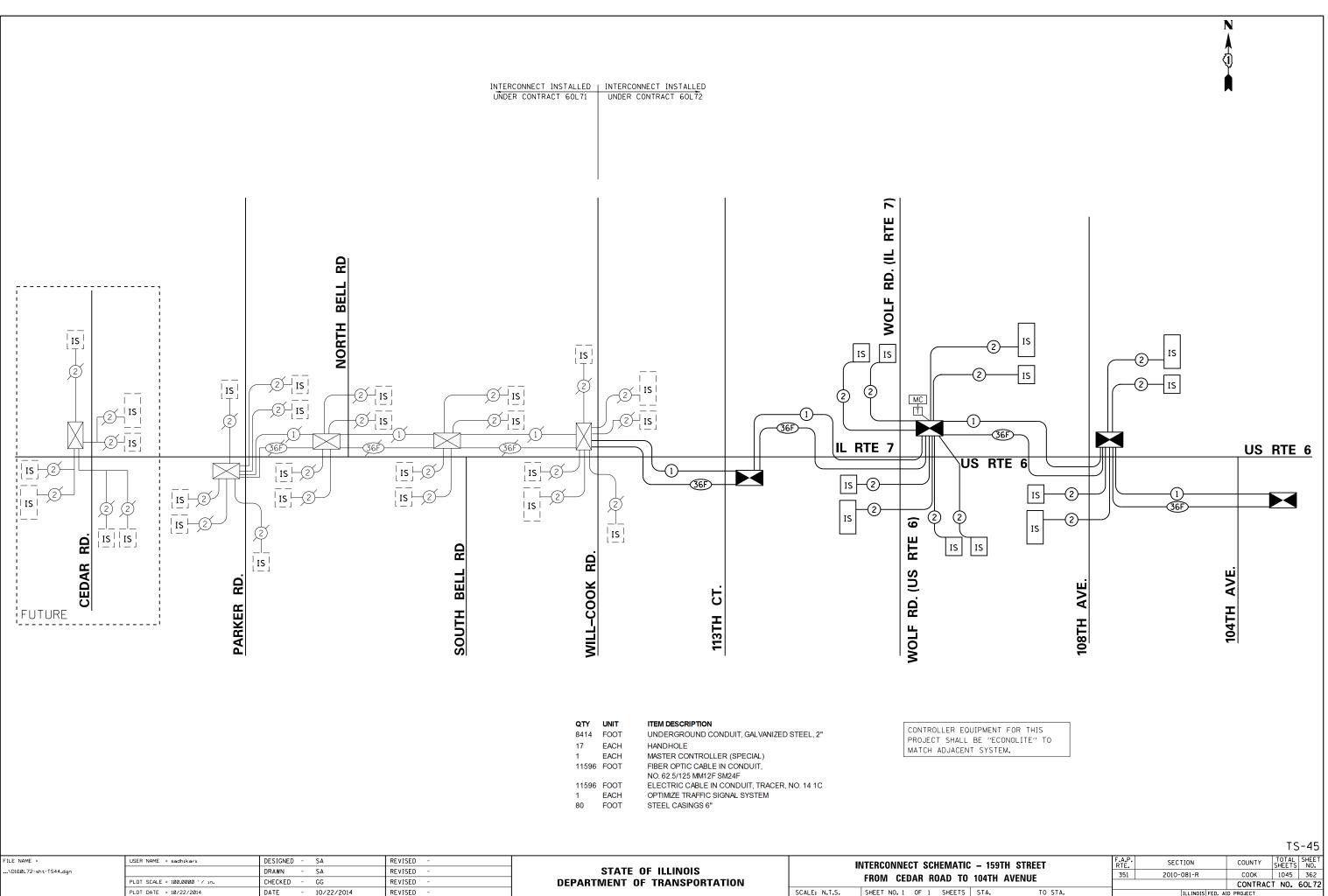
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	PLOT SCALE = 40.0000 ' / in.	CHECKED - SA	REVISED -	DEPARTMENT OF TRANSPORTATION		FROM 159TH STREET TO
	PLOT DATE = 10/22/2014	DATE - 10/22/2014	REVISED -		SCALE: N.T.S.	SHEET NO. 4 OF 4 SHEETS











DEPARTMENT OF TRANSPORTATION		FROM	CED	AK	KUA	D IO	10
	SCALE: N.T.S.	SHEET N	0.1	OF	1 5	SHEETS	S

Upper Case To Lower Case Spacing Chart 8-6 Inch Series "C & D"

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	SERIES	С	D	C	D	С	D	С	D	С	D	С	D	С	D	C
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	В	14	15	20	21	14	15	11	12	14	15	12	14	12	14	16
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F	DOQR	14	15	20	2 ¹	14	15	06	10	12	14	12	14	14	15	14
	F	05	06	14	15	06	10	05	06	06	10	06	10	06	10	1
I R S T	HIMN	2 ⁰	21	2 ²	24	2 ⁰	21	14	15	16	17	16	17	2 ⁰	21	2
Ľ	JU	2 ⁰	2 ¹	20	2 ¹	16	17	14	15	16	17	16	17	16	17	2
	ΚL	11	12	16	17	11	12	05	06	11	12	11	12	11	12	12
Ŧ	Р	12	14	14	15	12	14	05	06	11	12	11	12	12	14	12
E R	S	12	14	16	17	1 ²	14	06	10	12	14	12	14	12	14	14
	Т	11	12	16	17	06	10	06	10	11	12	11	12	11	12	12
	۷	06	10	14	15	11	12	06	10	12	14	12	14	12	14	12
	Y	05	06	14	15	06	10	05	06	05	07	05	06	06	10	1
	Z	16	17	2 ²	24	16	17	12	14	16	17	16	17	16	17	2

Lower Case To Lower Case

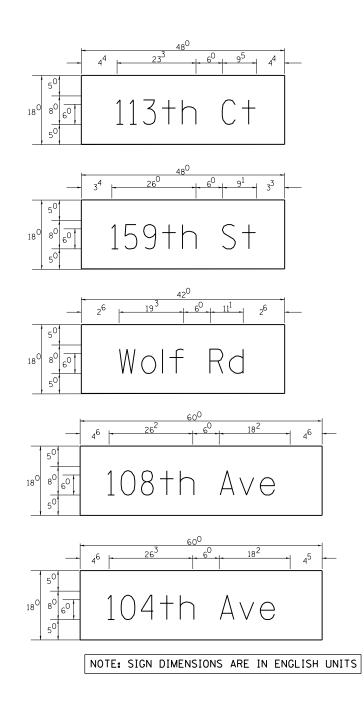
Spacing Chart 6 Inch Series "C & D"

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Ė	v у	11	12	14	15	11	12	05	06	06	10	06	10	11	12	11	12
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Number To Number Spacing Chart 8 Inch Series "C & D"

		_																		
									SE	CO	ND	NL	IMB	ER						
		0)		1	2	2		3	4	1	5	5	6	2		7	8	3	9
	SERIES	С	D	С	D	С	D	С	D	С	D	С	D	С	D	С	D	С	D	С
F	09	16	17	16	17	14	1 ⁵	12	14	14	1 ⁵	14	15	16	17	1 ²	14	16	17	16
R	1	2 ⁰	21	2 ⁰	21	2 ⁰	2 ¹	16	17	14	1 ⁵	20	21	20	2 ¹	14	1 ⁵	2 ⁰	21	20
T	234	14	1 ⁵	14	1 ⁵	14	1 ⁵	1 ²	14	1 ²	14	14	1 ⁵	14	1 ⁵	1 ¹	1 ²	16	17	14
NU	5	14	1 ⁵	14	1 ⁵	14	1 ⁵	11	1 ²	1 ¹	1 ²	14	1 ⁵	14	1 ⁵	1 ¹	1 ²	14	1 ⁵	14
M B	6	1 ⁶	17	14	1 ⁵	14	1 ⁵	12	1 ⁵	1 ²	14	14	1 ⁵	14	15	11	1 ²	1 ⁴	1 ⁵	14
ER	7	1 ²	14	1 ²	14	14	1 ⁵	1 ²	1 ⁵	05	0 ⁶	1 ²	14	14	1 ⁵	11	1 ²	1 ⁴	1 ⁵	1 ²
	8	1 ⁶	17	1 ⁶	17	14	1 ⁵	12	1 ⁵	1 ²	14	14	1 ⁵	1 ⁶	17	1 ²	14	1 ⁶	17	14

FILE NAME =	USER NAME = sadhıkarı	DESIGNED - SA	REVISED -		ILLUMINATED STREET NAME SIGNS	F.A.P.	SECTION	COUNTY	TOTAL SHEET
\D160L72-sht-TS45.dgn		DRAWN - SA	REVISED -	STATE OF ILLINOIS	STREET NAME SIGNS	351	2010-081-R	СООК	1045 363
	PLOT SCALE = 100.0000 ' / in.	CHECKED - GG	REVISED -	DEPARTMENT OF TRANSPORTATION				CONTRAC	T NO. 60L72
	PLOT DATE = 10/22/2014	DATE - 10/22/2014	REVISED -		SCALE: N.T.S. SHEET NO. 1 OF 1 SHEETS STA. TO STA.		ILLINOIS FED. A	AID PROJECT	



EXAMPLE, 2^{3} DENOTES $\frac{3''}{8}$

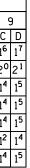
UPPER AND LOWER CASE LETTER WIDTHS

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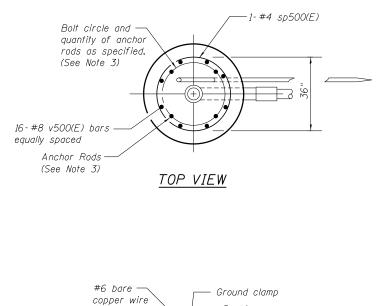
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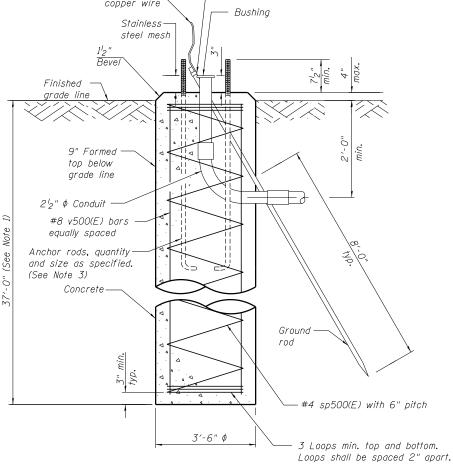
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с	3 ²	40	4 3	53	с	35	41
D	32	40	4 3	53	d	35	4 2
E	30	35	40	47	е	35	4 2
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G	3 ²	40	4 3	53	g	35	42
н	3 ²	40	4 3	53	h	35	42
I	7 0	07	11	12	i	11	11
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Y	36	50	50	66	У	46	53
Z	3 ²	40	43	53	z	36	43

[∾] u,	6 INCH	SERIES	8 INCH	SERIES
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4	35	4 ³	47	57
5	32	40	43	53
6	32	40	4 3	53
7	32	40	4 ³	53
8	32	4 ⁰	4 ³	53
9	32	40	4 3	53
0	34	4 ²	45	55



TS-46





42" DIAMETER FOUNDATION (SPECIAL)

(Typical of Each Mast Arm Foundation at 159th Street and 108th Avenue)

BILL OF MATERIAL (For 1-42" ϕ Foundation; 4-Required)



*Length is height of spiral

**Not measured for payment, cost included with CONCRETE FOUNDATION, TYPE E 42-INCH DIAMETER

NOTES

- verified in the field by the Engineer during foundation drilling. 2. Reinforcement bars designated (E) shall be epoxy coated.
- 4. Work this Sheet with Traffic Signal Plans.
- 5. Contractor shall verify location of utilities prior to drilling.

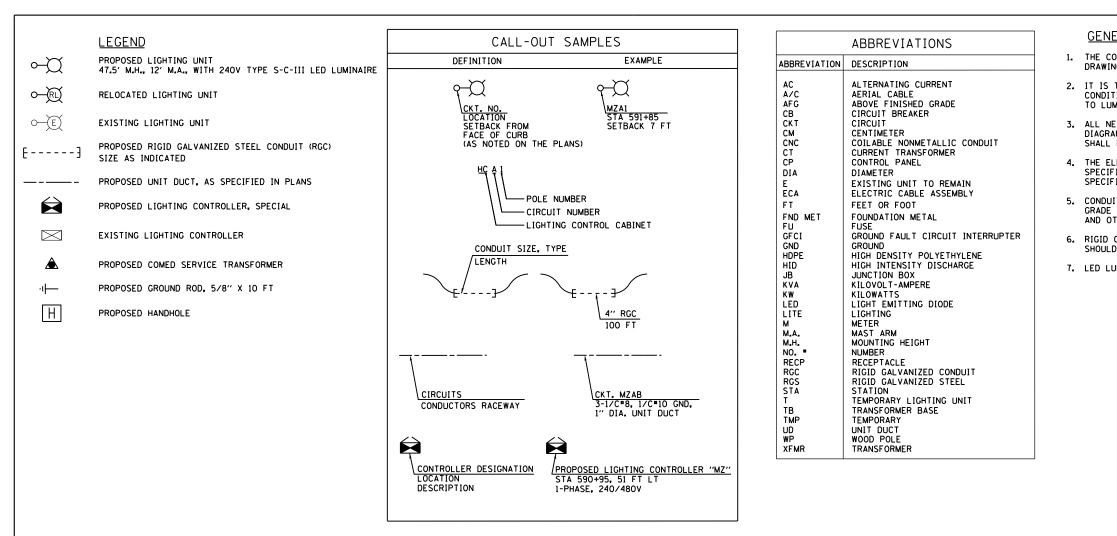
-								
IOCHNER	USER NAME =	DESIGNED - RAB	REVISED			F.A.P.	SECTION	COUNTY TOTAL SHEET
H. W. LOCHNER, INC.	FILE NAME = 0160000-60L72-001-CF.dgn	CHECKED - LJB	REVISED	STATE OF ILLINOIS	CONCRETE FOUNDATION DETAILS	351	2010-081-R	СООК 1045 364
225 WEST WASHINGTON STREET	PLOT SCALE =	DRAWN - EF	REVISED	DEPARTMENT OF TRANSPORTATION				CONTRACT NO. 60L72
12 TH FLOOR CHICAGO, ILLINOIS 60606	PLOT DATE =	CHECKED - LJB	REVISED		SHEET NO. 1 OF 2 SHEETS		ILLINOIS FED. AI	ID PROJECT

ength	Shape
5′-6″	
5'-6"	~~~~
ound	2,052
oot	37

1. The foundation depth shown is for a site with stiff clay with an average Unconfined Compressive Strength (Qu)>1.7 tsf from elevation 672 to elevation 665. The strength of soil at this depth shall be 3. See Standards 877011-05 and 8770012-02 for anchor bolt sizing and additional details.

Geotechnical) Environmental & Civil Engineering 805 Kanlesti Court: Suite 204 Naperville, III: ଏରିର 20555 (କପ୍ର) 355-28,16				SC	DIL BORING LOG		Page	<u> </u>	of <u>1</u>
IL Route 7/U.S. Route 6									2/12
					. 7 from Will Cook Rd. to Ravinia Av L		ED B	/ <u> </u>	<u><d< u=""></d<></u>
				SW1/	4, SEC. 17, TWP. T36N, RNG. R12E, 3rd PN	1			
COUNTY Cook DRILLING	G ME	THO)		HSA/ROTARY HAMMER TYPE	(OME A	utoma	tic
STRUCT. NO Station	D E P	B L O	U C S	M O I	Surface Water Elevn/aft Stream Bed Elevn/aft	DEP	B L Q	U C S	M
BORING NO	Т	w		S	Groundwater Elev.:	т	Ŵ		s
BORING NO. <u>RE-31</u> Station <u>354+38</u> Offset <u>27.90ft Right</u> Ground Surface Elay 699.70 ft	н	S	Qu	т	First Encounter692.2 ft ▼ Upon Completionn/a ft	н	S	Qu	Т
Ground Surface Elev. 699.70 ft TOPSOIL-black (Fill)	(ft)	(/6")	(tsf)	(%)	After Hrs. ft CLAY-brown & gray-soft to stiff	(ft)	(/6'')	(tsf)	(%)
698.70	-			15	(continued)				
CRUSHED ASPHALT & STONE-medium dense	-	5 9		6		-	2		18
696.70	_	11				_	3		
DRGANIC CLAY _OAM-black-very loose to loose						_			
_OAN-DIACK-VETY TOUSE TO TOUSE		1 2		53			1 2	1.0	15
	-5	5			674.20	-25	3	Р	
		1			CLAY LOAM-gray-medium stiff				
	+	2	1.4	40		-	2	0.9	17
691.70	V	2	В		671.70	-	4	В	
PEAT-dark brown to black-very cose	_	ST	_	59	SILTY CLAY LOAM-gray-stiff	_	2		
	-			00		_	3	1.0	14
	-10					-30	5	В	
	_	1				_			
	_	1	0.3 B	89	667.70 CLAY LOAM-gray-stiff	_			
686.70	-		Б		CLAT LOAW-gray-suit	-			
SILTY CLAY-gray-very soft (Wet)	+	ST	0.3	37		-	4		
	-		Р			-	6 9	1.7 B	16
684.20	-15				664.70 End Of Boring @ -35.0'. Boring backfilled with cuttings.	-35	3	0	
DRGANIC SILTY CLAY-dark		6			baokined with outlings.	_			
	_	1	0.2 B	37		_			
681.70 CLAY-brown & gray-soft to stiff	_					_			
LAY-brown & gray-soll to stim	-	2				-			
	-20	2 4	0.3 P	19		40			
he Unconfined Compressive Strength /	UCSI	Fail	ure Mo	de is	indicated by (B-Bulge, S-Shear, P-Penetr	omet	er)		

P									
LOCHNER	USER NAME =	DESIGNED - RAB	REVISED			F.A.P.	SECTION	COUNTY	TOTAL SHEET SHEETS NO.
H. W. LOCHNER, INC.	FILE NAME = 0160000-60L72-002-SB.dgn	CHECKED - LJB	REVISED	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SOIL BORING LOGS	351	2010-081-R	СООК	1045 365
225 WEST WASHINGTON STREET 12 TH FLOOR	PLOT SCALE =	DRAWN - EF	REVISED					-	T NO. 60L72
CHICAGO, ILLINOIS 60606	PLOT DATE =	CHECKED - LJB	REVISED		SHEET NO. 2 OF 2 SHEETS	ILLINOIS FED. AID PROJECT			



LIGHTING BILL OF MATERIAL

	ITEM		UNIT	QUANTITY		
ELECTRIC SERVICE INSTALL	ATION		EACH	1		
ELECTRIC UTILITY SERVICE (CONNECTION		LSUM	1		
UNDERGROUND CONDUIT, G	ALVANIZED STEEL, 4" DIA.		FOOT	2,833		
HANDHOLE			EACH	4		
UNIT DUCT, 600V, 3-1C NO.2,	FOOT	7,238				
UNIT DUCT, 600V, 3-1C NO.4,	FOOT	5,573				
ELECTRIC CABLE IN CONDUI	FOOT	120				
LIGHT POLE FOUNDATION, 24	FOOT	361				
REMOVAL OF POLE FOUNDA	REMOVAL OF POLE FOUNDATION					
RELOCATE EXISTING LIGHTIN	IG UNIT		EACH	7		
LIGHTING CONTROLLER, SPE	CIAL		EACH	1		
LIGHT POLE, SPECIAL			EACH	36		
LIGHT POLE FOUNDATION, 24	I" DIAMETER, OFFSET		FOOT	66		
MAINTENANCE OF LIGHTING	IAINTENANCE OF LIGHTING SYSTEM					
LUMINAIRE, LED, HORIZONTA	L MOUNT, SPECIAL		EACH	36		
	USER NAME = rswanson	DESIGNED - RAS	REVISE	D - C		
EIM ENGINEERING, INC.		DRAWN - BKC	REVISE	n _		

, ,	,									E-01
EJM ENGINEERING, INC.	USER NAME = rswanson	DESIGNED -	RAS	REVISED -		LIGHTING GENERAL NOTES AND LEGEND			SECTION	COUNTY TOTAL SHEET
		DRAWN -	BKG	REVISED -	STATE OF ILLINOIS				2010-081-R	COOK 1045 366
Chicago, Illinois 60607	PLOT SCALE = 50.00′ / IN.	CHECKED -	MKR	REVISED -	DEPARTMENT OF TRANSPORTATION		US 6 / IL 7 (159TH ST) AT WOLF ROAD			CONTRACT NO. 60L72
	PLOT DATE = 10/21/2014 DATE - 10/22/2014		REVISED -		SCALE: NONE SHEET 1 OF 1 SHEETS STA. TO STA.			ILLINOIS FED. AID PROJECT		

GENERAL NOTES:

THE CONTRACTOR SHALL VERIFY ALL OF THE INFORMATION SHOWN ON THE CONTRACT DRAWINGS, WHICH WOULD AFFECT THE WORK UNDER THIS CONTRACT.

 IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO ASCERTAIN EXISTING FIELD CONDITIONS BEFORE BIDDING ON THIS PROJECT, SPECIFICALLY AS THEY RELATE TO LUMP SUM ITEMS.

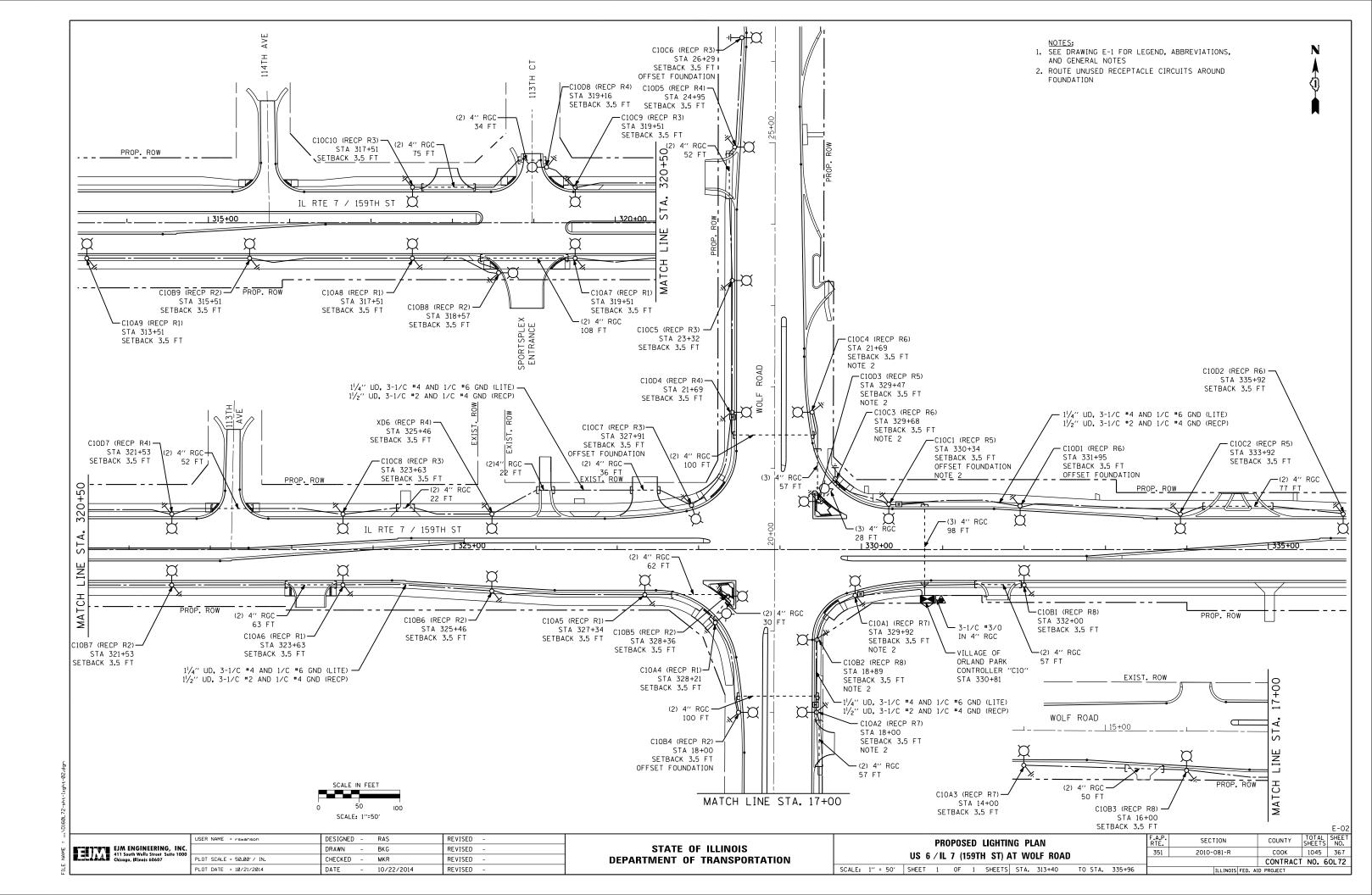
3. ALL NEW CONDUITS, UNIT DUCTS, AND APPURTENANCES ARE INDICATED DIAGRAMMATICALLY ON THE DRAWINGS. THE ACTUAL LOCATIONS IN THE FIELD SHALL MEET WITH APPROVAL OF THE ENGINEER.

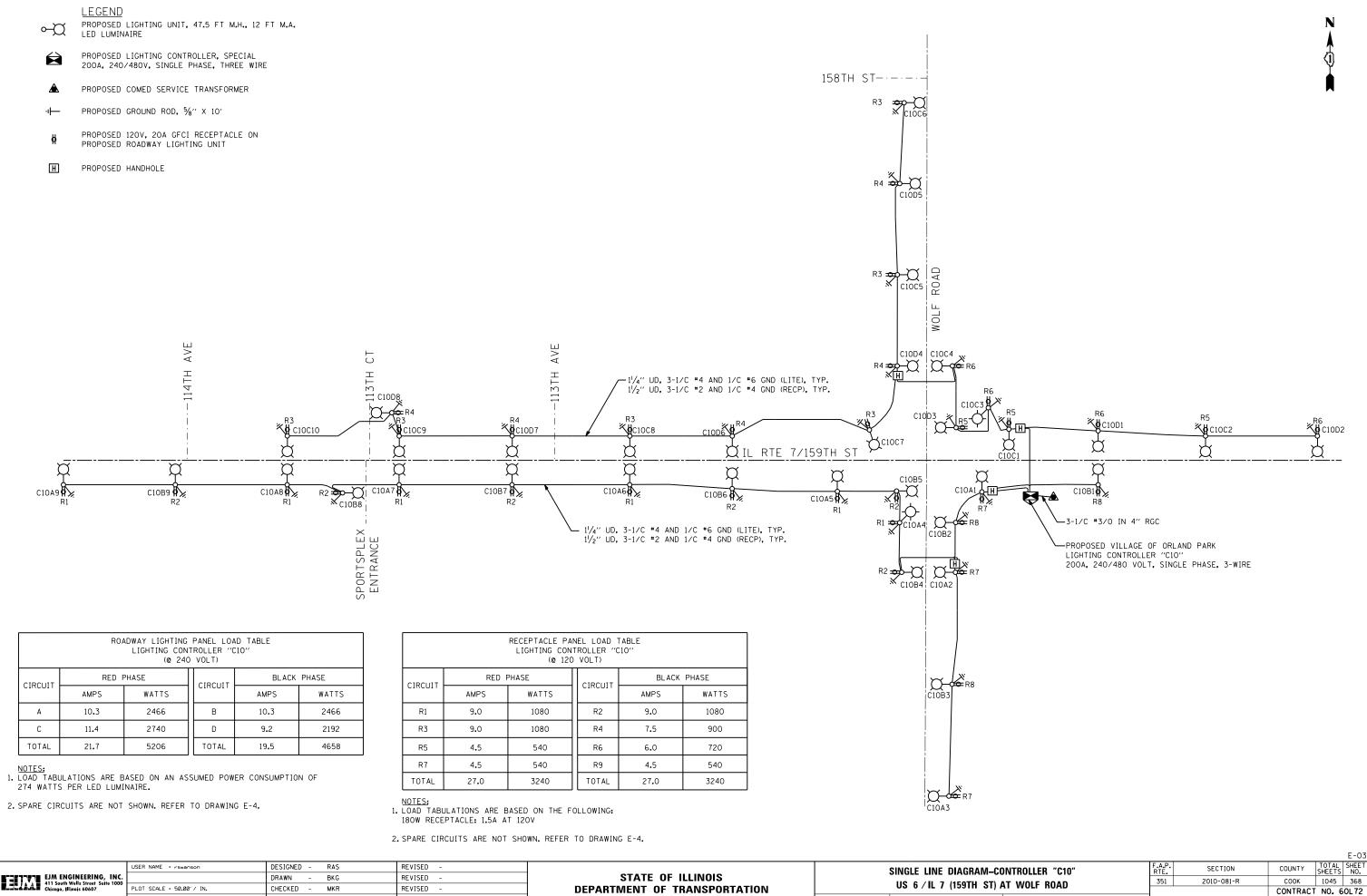
4. THE ELECTRICAL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE IDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND ASSOCIATED SUPPLEMENTAL SPECIFICATIONS (LATEST EDITION).

CONDUITS AND UNIT DUCTS SHALL BE INSTALLED AT A MINIMUM 30" DEPTH BELOW GRADE AND POSITIONED IN THE FIELD TO AVOID CONFLICT WITH ROADWAY UNDERDRAINS AND OTHER EXISTING AND PROPOSED UTILITIES.

6. RIGID CONDUIT CASINGS UNDER ROADWAYS SHALL EXTEND 2 FT BEYOND THE EDGE OF SHOULDER OR BACK OF CURB, AS APPLICABLE.

7. LED LUMINAIRES SHALL BE GENERAL ELECTRIC LIGHTING MODEL NO. ERS4-3-T3-D1-5-50.

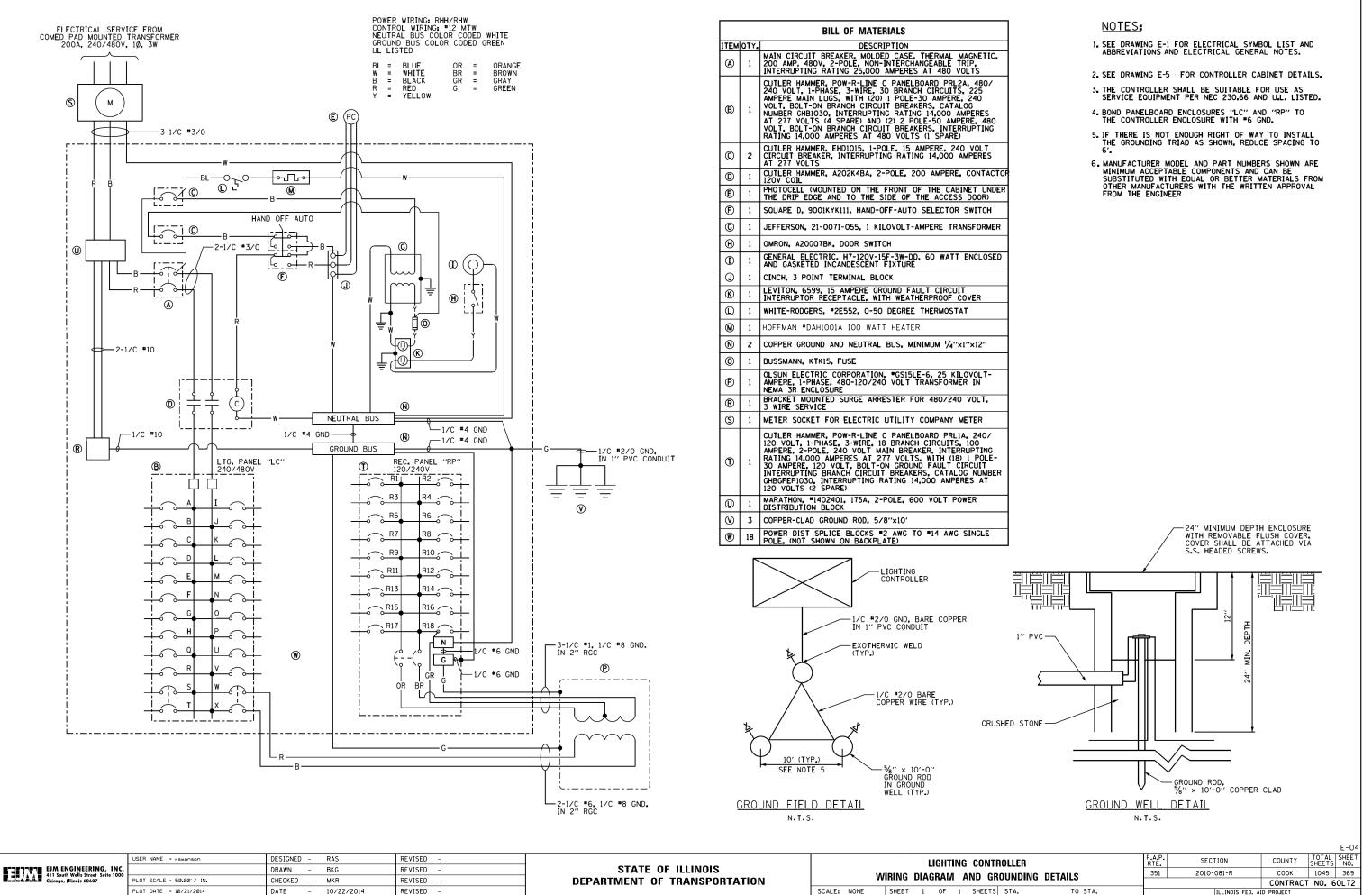




1		USER NAME = rswanson	DESIGNED - RAS	REVISED -			
Ļ	EJM ENGINEERING, INC.		DRAWN – BKG	REVISED -	STATE OF ILLINOIS		SINGLE LINE DIAGRAM-CONTROLI
E N	411 South Wells Street Suite 1000 Chicago, Illinois 60607	PLOT SCALE = 50.00' / IN.	CHECKED - MKR	REVISED -	DEPARTMENT OF TRANSPORTATION		US 6 / IL 7 (159TH ST) AT WOL
1		PLOT DATE = 10/21/2014	DATE - 10/22/2014	REVISED -		SCALE: NONE	SHEET 1 OF 1 SHEETS STA.

ILLINOIS FED. AID PROJECT

TO STA.



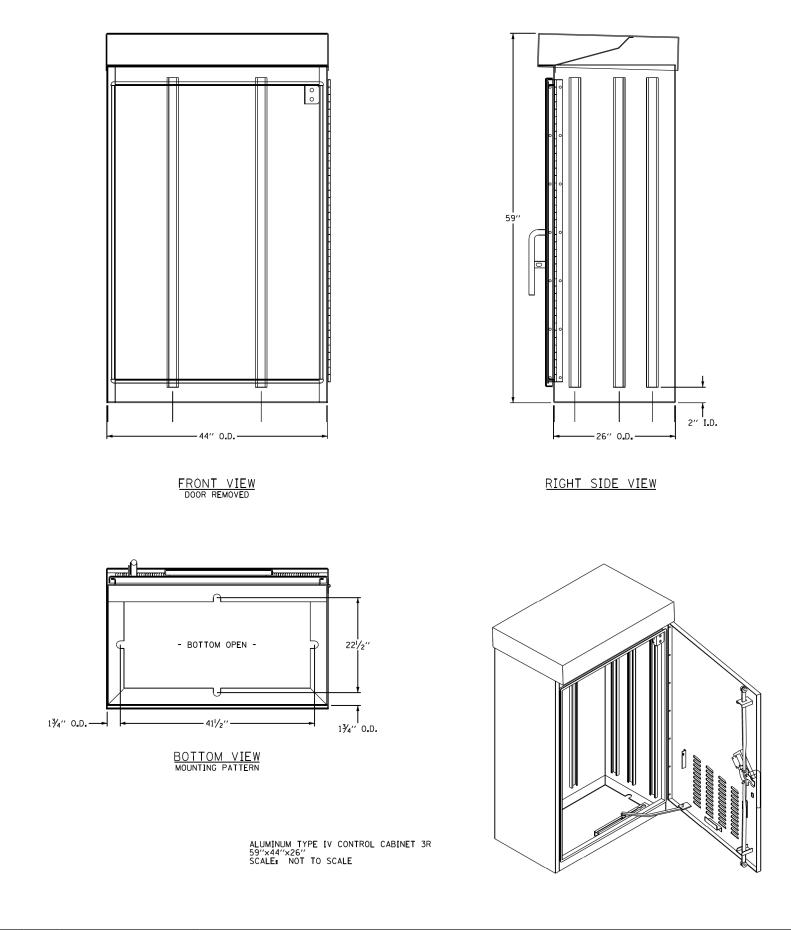
PLOT DATE = 10/21/2014

DATE

10/22/2014

REVISED

					E-04
TROLLER Grounding Details		SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		2010-081-R	СООК	1045	369
SICONDING DETAILS			CONTRACT	NO. 6	0L72
IS STA. TO STA.		ILLINOIS FED. AI	D PROJECT		



•		USER NAME = rswanson	DESIGNED -	RAS	REVISED -		Í			GHTIN	10 00	ONTR
2	EJM ENGINEERING, INC.		DRAWN -	BKG	REVISED -	STATE OF ILLINOIS	1					
	Chicago, Illinois 60607	PLOT SCALE = 50.00' / IN.	CHECKED -	MKR	REVISED -	DEPARTMENT OF TRANSPORTATION	CABINET DETA					
1		PLOT DATE = 10/21/2014	DATE -	10/22/2014	REVISED -		SCALE: NONE	SHEET	1	0F 1	1 SHF	EETS

AME = ...\D160L72-sht-liaht-05.dan

SPECIFICATIONS:

PERFORMANCE - THE ENCLOSURE WILL MEET OR EXCEED THE REQUIREMENTS OF A NEMA 3R RATING AND SHALL BE U.L. LISTED PER U.L. 508.

MATERIAL - SHEET ALUMINUM 1/8" THICKNESS, ALLOY 5052 H32, SURFACE SHALL HAVE A SMOOTH, NATURAL ALUMINUM MILL FINISH. ALL WELDS TO BE HELIARC AND SHALL BE NEATLY FORMED AND FREE OF CRACKS, BLOW HOLES, AND OTHER DEFECTS. ALL EDGES TO BE FREE OF BURRS.

CABINET FEATURES - CABINET TOP SLOPED 1/2" TO THE REAR, WITH 1/8" X 1" VENT SLOTS UNDER FRONT OVERHANG.

DOORS AND LOCKS - THE MAIN DOOR IS OF NEMA TYPE 3R CONSTRUCTION WITH CELLULAR NEOPRENE GASKET, WHICH IS RAIN TIGHT, HINGE IS 2" OPEN AND IS CONTINUOUS 14 GAUGE STAINLESS STEEL WITH A 1/4 " DIA. PIN AND IS CAPPED AT THE TOP TO RENDER IT TAMPER PROOF. THE HINGE IS SECURED WITH 1/4-20 STAINLESS STEEL CARRIAGE BOLTS AND ESNA LOCK NUTS. STANDARD EQUIPMENT INCLUDES A THREE POINT LOCKING SYSTEM, WHICH SECURES THE DOOR AT THE TOP, BOTTOM, AND CENTER. A CORBIN LOCK WITH TWO KEYS IS ALSO FURNISHED. THE MAIN DOOR IS ALSO EQUIPPED WITH A THREE POSITION DOOR STOP, ONE AT 90°, ONE AT 120°, AND ONE AT 180°. DOOR LOCKING RODS ARE 1/4" X 3/4" ALUMINUM TURNED EDGEWAYS WITH 1" NYLON ROLLERS, MAIN DOOR HANDLE IS 3/4" DIAMETER STAINLESS STEEL. THE CABINET DOOR SHALL BE HINGED ON THE RIGHT SIDE WHEN FACING THE FRONT OF THE CABINET.

EQUIPMENT MOUNTING - THE CABINET SHALL BE EQUIPPED WITH TWO ADJUSTABLE "L" MOUNTING CHANNELS WELDED TO EACH SIDE WALL AND THE BACK WALL ALLOWING FULL ADJUSTMENT OF SHELVES OR PANELS.

VENTILATION - VENT SLOTS (1/8" X 1") ARE PROVIDED ON THE UNDERSIDE OF THE COVER OVERHANG AND LOUVER SLOTS ARE FORMED IN THE LOWER PORTION OF THE MAIN DOOR. THIS CREATES A NATURAL MOVEMENT OF AIR AND HAS A COOLING EFFECT ON THE ELECTRICAL EQUIPMENT.

CABINET TYPE FOR PERMANENT CONTROLLER "CIO " IS BASE MOUNTED AND EQUIPPED WITH INSIDE FLANGES AT THE FRONT, BACK, AND SIDES FOR ANCHORING TO A BASE (SEE INSTALLATION DETAILS ON DRAWING E-6.

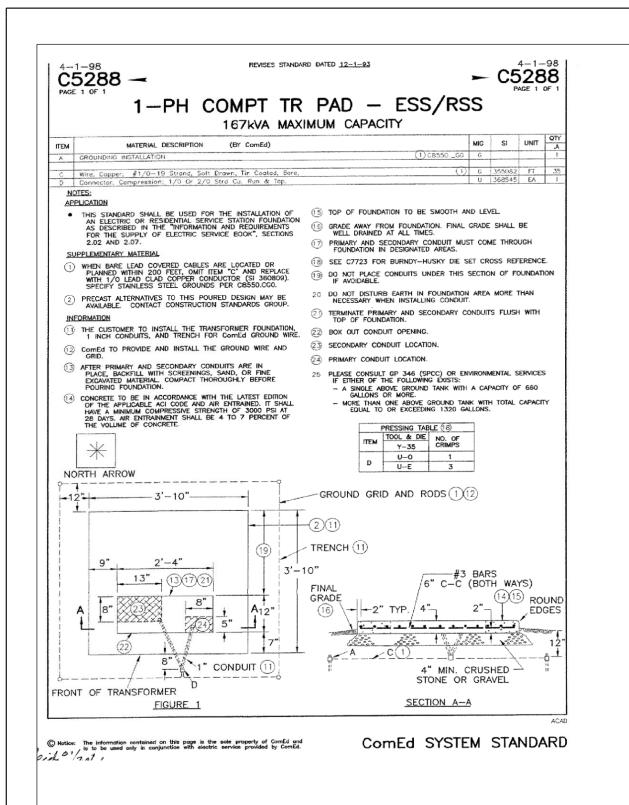
INDICATED DIMENSIONS REPRESENT THE MINIMUM REQUIREMENTS. DIMENSIONS SHALL BE INCREASED AS REQUIRED TO COMPLY WITH THE CODE AND TO ADEQUATELY HOUSE ALL REQUIRED COMPONENTS WITH AMPLE ROOM FOR ARRANGEMENT AND TERMINATION OF WIRING.

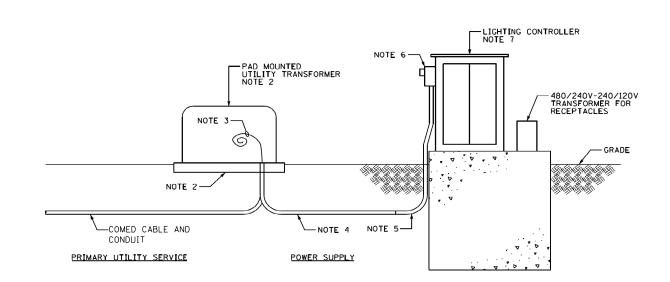
THE SERVICE EQUIPMENT SHALL BE MARKED TO IDENTIFY AS BEING SUITABLE AS SERVICE EQUIPMENT IN ACCORDANCE WITH NEC ARTICLE 230.66.

								E-05
F	ROLLER		F.A.P. RTE	SECTION		COUNTY	TOTAL SHEETS	SHEET NO.
г	AILS		351	2010-081-R		СООК	1045	370
						CONTRACT	NO. 6	0L72
5	STA.	TO STA.		ILLINOIS	FED. AI	D PROJECT		

- --

30" MIN. (TYP.) 4" DIA. x 36" PVC ELBOW (TYP.) 4" PROVIDE BUSHING AND DUCT SEAL (TYP.) LEFT SIDE ELEVATION LIGHTING CONTROLLER FOUND	A" PVC RACEWAYS, (IO MINIMUM PLUS 2 COORDINATE WITH CIRCUIT REQUIREMENT ACTUAL DIRECTION AS REQUIRED PER PL ERONT ELEVATION	 FOR STATE 13. THE COMPLETED CONTROLLER SHALL BE UL, LISTED AS AN INDUSTRIAL CONTROL PANEL UNDER ULGOR. 14. ALL 120 VOLT SYSTEM AND ALL CONTROL WIRING SHALL BE "12AWG STRANDED UNLESS INTERMINE INDICATED. 14. ALL 120 VOLT SYSTEM AND ALL CONTROL WIRING SHALL BE "12AWG STRANDED UNLESS IS ALL WIRING SHALL BE NEATLY DRESSED AND SUPPORTED. 15. ALL WIRING SHALL BE NEATLY DRESSED AND SUPPORTED. 16. FOR LIGHTING CONTROLLER WIRING DIAGRAM, SEE DRAWING E-4. 17. CONCRETE FOUNDATION SHALL BE CONSTRUCTED AS REQUIRED TO SUPPORT CONTROL CABINET AND TRANSFORMER. CONTROLLER WIRING DIAGRAM, SEE DRAWING E-4. 18. CONCRETE FOUNDATION END CLOSESY TO THE UTILITY SERVICE, WITH THE METER MICLIDED IN THE COST OF 'LIGHTING CONTROLLER, SPECIA.'' PAY THEM. 18. LENGTH OF CONCRETE SLAB SHOULD MATCH LENGTH OF CONCRETE FOUNDATION. 19. THE COST OF THE TRANSFORMER AND THE RELATED WORK SHALL BE INCLUDED IN THE COST OF 'LIGHTING CONTROLLER, SPECIA.'' TEM. 19. THE COST OF THE TRANSFORMER AND THE RELATED WORK SHALL BE INCLUDED IN THE COST OF 'LIGHTING CONTROLLER, SPECIA.'' TEM. 19. THE COST OF THE TRANSFORMER AND THE RELATED WORK SHALL BE INCLUDED IN THE COST OF 'LIGHTING CONTROLLER, SPECIA.'' TEM. 19. THE COST OF THE TRANSFORMER AND THE RELATED WORK SHALL BE INCLUDED IN THE COST OF 'LIGHTING CONTROLLER, SPECIA.'' TEM. 19. THE ALL THANSFORMER BAR TO CONCRETE FOUNDATION. 19. THE ALL THANSFORMER BAR TO CONCRETE PAD IN FRONT OF CONTROLLER.'E PAD IN FRONT OF CONTROLLER.'' THE ALL DO F 10. GOUND RODS IN A 10 FT. THEAL ALL DO THE TOWN WITH THE ENGINEER. NO GOUND WELL STATED.''.'' PYC TO GROUND WELL ALL BE PLACED IN CONCRETE PAD IN FRONT OF CONTROLLER.''
N.T.S.		
EIM ENGINEERING, INC. EIM ENGINEERING, INC. DESTINATION DESTINATION DESTINATION Revised Chicago, Illinois 60607 Fill South Wells Street Suite 1000 PLOT SCALE = 50.007 / IN. CHECKED - MKR REVISED - PLOT SCALE = 10/21/2014 DATE - 10/22/2014 REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	LIGHTING CONTROLLER F.A.P. RTE. SECTION COUNTY TOTAL SHEET SHEET NO. FOUNDATION DETAILS 351 2010-081-R COOK 1045 371 SCALE: NONE SHEET 1 OF 1 SHEET STA. TO STA. ILLINDIS FED. AID PROJECT VO.



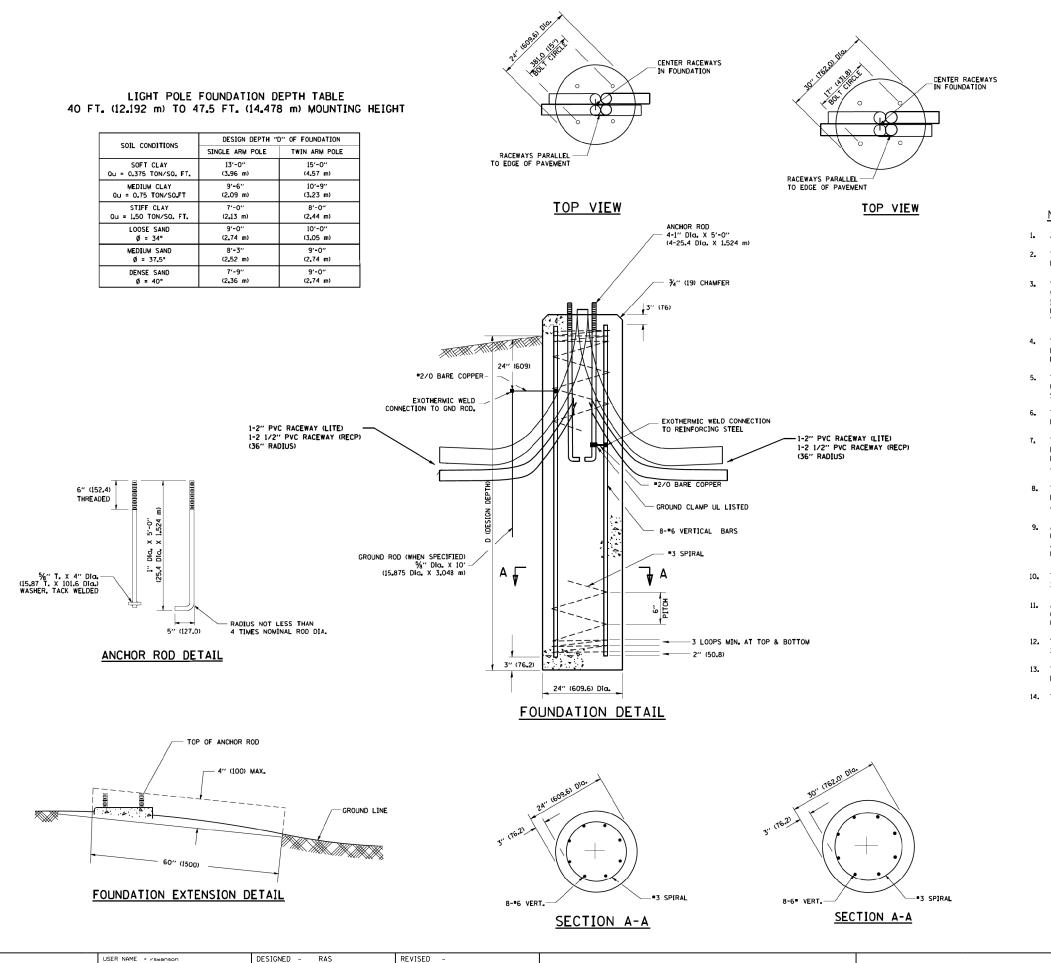


ELECTRIC SERVICE INSTALLATION DETAIL

NOTES:

- 1. THIS WORK SHALL BE INSTALLED UNDER THE "ELECTRIC SERVICE INSTALLATION" PAY ITEM, UNLESS NOTED OTHERWISE.
- 2. COMMONWEALTH EDISON COMPANY (COMED) SHALL FURNISH AND INSTALL THE PAD MOUNTED TRANSFORMER COMPLETE WITH GROUNDING SYSTEM INCLUDING GROUND RODS, GROUNDING CONDUCTOR, PRIMARY CABLE, CUT-OUT SWITCH, LIGHTNING ARRESTOR, CONNECTORS, AND ANY OTHER EOUIPMENT AND LABOR DEEMED NECESSARY, SEE COMED SYSTEM STANDARD C5288 FOR INSTALLATION REQUIREMENTS.
- 3. ELECTRIC SERVICE CONDUCTORS FROM THE INSIDE OF THE CABINET TO THE TRANSFORMER. PROVIDE 10 FT OF SLACK FOR CONNECTION TO TRANSFORMER BY COMED. CABLE SHALL CONFORM TO THE REQUIREMENTS SPECIFIED FOR ELECTRIC CABLE IN CONDUIT. LABEL CABLE ON BOTH ENDS. SEE PLAN DRAWINGS FOR CABLE TYPE AND SIZE.
- 4. UNDERGROUND CONDUIT. SEE PLAN DRAWINGS FOR CONDUIT MATERIAL AND SIZE.
- 5. RGC 90 DECREES LONG SWEEP ELBOW IN TRENCH, SEE PLAN DRAWINGS FOR CONDUIT, TYPE, SIZE, AND QUANTITY. THIS WORK SHALL BE INSTALLED UNDER THE "ELECTRIC SERVICE INSTALLATION" PAY ITEM.
- 6. UNDER THE "ELECTRIC UTILITY SERVICE CONNECTION" PAY ITEM, COMED SHALL FURNISH AND INSTALL METER ON CONTROLLER CABINET.
- 7. SEE DRAWING E-6 FOR LIGHTING CONTROLLER AND FOUNDATION DETAILS.
- 8. SUBMIT A PLAN DRAWING SHOWING THE PROPOSED PRIMARY CONDUIT INSTALLATION TO COMED FOR THEIR APPROVAL, THIS WORK SHALL BE COVERED UNDER THE "ELECTRIC UTILITY SERVICE CONNECTION" PAY ITEM, SEPARATE PAYMENT WILL NOT BE MADE.

							E-07
			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
AC	MOUNIED	TRANSFORMER	351	2010-081-R	СООК	1045	372
					CONTRACT	NO. 6	0L72
ſS	STA.	TO STA.		ILLINOIS FED. AI	D PROJECT		



EJM ENGINEERING, INC. 411 South Wells Street Suite 1000 Chicago, Illinois 60607	USER NAME = rswanson	DESIGNED -	RAS	REVISED -				
		DRAWN -	BKG	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	LIGHT POLE FOU		
	PLOT SCALE = 50.00′ / IN.	CHECKED -	MKR	REVISED -				
	PLOT DATE = 10/21/2014	DATE -	10/22/2014	REVISED -		SCALE: NONE	SHEET 1 OF 1 SHEETS	

<u>NOTES</u>

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

THE ANCHOR RODS AND RACEWAYS SHALL BE PROPERLY SECURED IN PLACE BEFORE THE CONCRETE IN PLACED.

3. THE FOUNDATION SHALL NOT PROTRUDE MORE THAN 100MM (4 IN.) ABOVE THE FINISHED GRADE WITHIN A 60 IN. (1.5 m) CHORD ACROSS THE FOUNDATION, WITH ANCHOR RODS INCLUDED, IN ACCORDANCE WITH AASHTO GUIDELINES, IF THE FOUNDATION HEIGHT, INCLUDING ANCHOR RODS, EXTENDS BEYOND THESE SPECIFIED LIMITS, THE FOUNDATION SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE. SEE FOUNDATION EXTENSION DETAIL.

4. THE HOLE FOR THE FOUNDATION SHALL BE MADE BY DRILLING WITH AN AUGER, OF THE SAME DIAMETER AS THE FOUNDATION. IF SOIL CONDITIONS REOUIRE THE USE OF A LINER TO FORM THE HOLE, THE LINER SHALL BE WITHDRAWN AS THE CONCRETE IS DEPOSITED.

THE TOP OF THE FOUNDATION SHALL BE CONSTRUCTED LEVEL. A LINER OR FORM SHALL BE USED TO PRODUCE A UNIFORM SMOOTH SIDE TO THE TOP OF THE FOUNDATION, FOUNDATION TOP SHALL BE CHAMFERED $\frac{1}{2}$ -IN. (20 mm).

6. THE CONCRETE SHALL BE CLASS SI. CONCRETE SHALL CURE ACCORDING TO ARTICLE 1020.13 BEFORE LIGHT POLES ARE INSTALLED.

THE ANCHOR ROD SHALL BE A HOOK ROD TYPE, COLD BENDING OF THE ANCHOR ROD WILL NOT BE ALLOWED. THE RADIUS OF THE HOOK BEND SHALL NOT BE LESS THAN 4 TIMES THE NOMINAL DIAMETER OF THE ANCHOR ROD, A TACK WELDED ANCHOR ROD MAY BE SUBSTITUTED WITH THE APPROVAL OF THE ENGINEER.

8. THE ANCHOR RODS SHALL BE ACCORDING TO ASTM F1554 GRADE 725 (GRADE 105). NUTS SHALL BE HEXAGON NUTS ACCORDING TO ASTM A 194 2H OR ASTM A 563 DH, AND WASHERS SHALL BE ACCORDING TO ASTM F 436.

9. ANCHOR RODS, NUTS AND WASHERS SHALL BE COMPLETELY GALVANIZED BY EITHER THE HOT-DIPPED PROCESS CONFORMING WITH AASHTO M 232, THE MECHANICAL PLATING METHOD CONFORMING TO AASHTO M 298, CLASS 50 WITH A MAXIMUM COATING THICKNESS OF 150 UM(6 MILS) OR THE ELECTROLYTIC PROCESS ACCORDING TO ASTIM F 1136.

10. THE ANCHOR RODS SHALL BE THREADED A MINIMUM OF 6 INCHES (150 mm) WITH A MINIMUM OF 3 INCHES (75 mm) OF THREADED ANCHOR ROD EMBEDDED IN THE FOUNDATION.

ANCHOR RODS SHALL PROJECT $2\frac{3}{4}$ " (69.9 mm) ABOVE THE TOP OF THE FOUNDATION. IF BREAKAWAY COUPLINGS ARE SPECIFIED, THE CONTRACTOR SHALL CAREFULLY COORDINATE THE ANCHOR ROD PROJECTION WITH THE INSTALLATION REQUIREMENTS OF THE BREAKAWAY COUPLINGS.

12. THE CONTRACTOR SHALL USE A *3 SPIRAL AT 6" (152.4 mm) PITCH OR MAY SUBSTITUTE *3 TIES AT 12" (304.8 mm) O.C. WITH THE APPROVAL OF THE ENGINEER.

13. THE CABLE TRENCHES AND FOUNDATION SHALL BE BACK FILLED AND COMPACTED AS SPECIFIED BEFORE THE LIGHT POLE IS ERECTED.

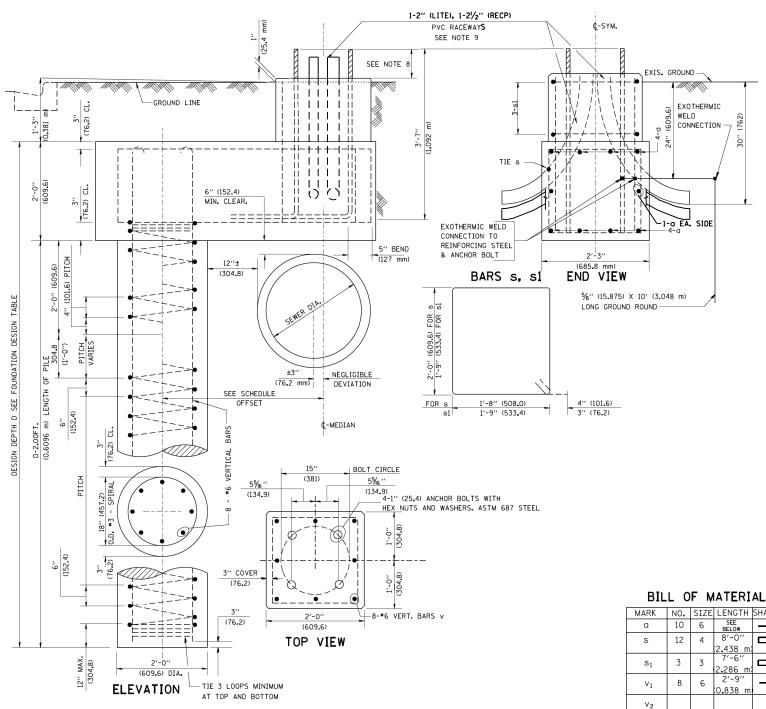
14. THE RACEWAYS SHALL PROJECT 1" (25.4 mm) ABOVE THE TOP OF THE FOUNDATION.

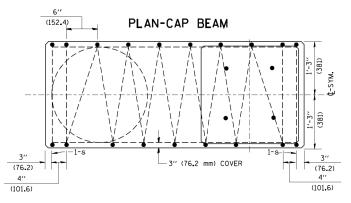
								E-08
		F.A.P. RTE.	SECTION		COUNTY	TOTAL SHEETS	SHEET NO.	
	TION DETAILS		351	2010-081-R		СООК	1045	373
_						CONTRACT	NO. 6	0L72
s	STA.	TO STA.		ILLINO	S FED. A	ID PROJECT		

	F	OUNDATION	DESIGN T	ABLE			
	DESIGN DEPTH (OF FOUNDATION		REINFORCEMENT	IN FOUNDATION		
TYPE OF SOIL	SINGLE ARM	TWIN ARM	SINGLE ARM		TWIN ARM		
	D	D	VERT BARS	SPIRAL	VERT BARS	SPIRAL	
SOFT CLAY	13'-0''	15'-0''	8-#6X12'-6''	#3X122′	8-#6X14'-3''	#3X141′	
	(3 . 962 m)	(4 . 572 m)	(3.810 m)	(37.186 m)	(4.343 m)	(42.977 m)	
MEDIUM CLAY	9'-6''	10'-9''	8-#6X9'-0''	#3X90′	8-#6X10'-0''	#3X100′	
	(2.896 m)	(3.277 m)	(2.743 m)	(27.432 m)	(3.048 m)	(30 . 480 m)	
STIFF CLAY	7'-0''	8'-0''	8-#6X6'-6''	#3X66′	8-#6X7'-6''	#3X76′	
	(2.134 m)	(2.438 m)	(1.981 m)	(20.112 m)	(2.286 m)	(23 . 165 m)	
LOOSE SAND	9'-0''	10'-0''	8- # 6X8'-6''	#3X85′	8-#6X9'-6''	#3X94′	
	(2.743 m)	(3.048 m)	(2 . 591 m)	(25.908 m)	(2.896 m)	(28.651 m)	
MEDIUM SAND	8'-3''	9'-0''	8-#6X8'-0''	#3X78′	8-#6X8'-6''	#3X85′	
	(2 . 515 m)	(2.743 m)	(2.438 m)	(23.774 m)	(2.591 m)	(25 . 908 m)	
DENSE SAND	7'-9''	9'-0''	8-#6X7'-6''	#3X73′	8-#6X8'-6''	#3X85′	
	(2.362 m)	(2.743 m)	(2.286 m)	(22 . 250 m)	(2.591 m)	(25 . 908 m)	
ROCK OR SOLIDIFIED SLAG	5'-0'' (1.524 m)	5'-0'' (1 . 524 m)	NONE	NONE	NONE	NONE	

NOTES

- 1. ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.
- 2. THE ENGINEER SHALL DETERMINE THE CLASS OF SOIL DURING EXCAVATION AND SELECT THE DESIGN DEPTH OF FOUNDATION FROM THE DESIGN TABLE.
- 3. EXCAVATION OF THE POLE FOUNDATION SHALL BE MADE WITH AN AUGER, 24" (609.6 mm) OR 30" (762.0 mm) IN DIAMETER.
- 4. THE ANCHOR ROD SHALL BE A HOOK ROD TYPE. COLD BENDING OF THE ANCHOR ROD WILL NOT BE ALLOWED. THE RADIUS OF THE HOOK BEND SHALL NOT BE LESS THAN 4 TIMES THE NOMINAL DIAMETER OF THE ANCHOR ROD. A TACK WELDED ANCHOR ROD MAY BE SUBSTITUTED WITH THE APPROVAL OF THE ENGINEER.
- 5. THE ANCHOR BOLTS AND RACEWAYS SHALL BE PROPERLY SECURED IN PLACE BEFORE THE CONCRETE IS PLACED IN THE FORM.
- 6. THE ANCHOR RODS SHALL BE ACCORDING TO ASTM F1554 GRADE 725 (GRADE 105). NUTS SHALL BE HEXAGON NUTS ACCORDING TO ASTM A 194 2H OR ASTM A 563 DH, AND WASHERS SHALL BE ACCORDING TO ASTM F 436.
- 7. THE CONTRACTOR SHALL COORDINATE EXTENSION OF ANCHOR BOLTS ABOVE TOP OF FOUNDATION WITH THE BREAKAWAY DEVICE MANUFACTURER'S REQUIREMENTS. IF LIGHT POLE IS MOUNTED WITHOUT BREAKAWAY DEVICE, ANCHOR BOLTS SHALL PROJECT $2\frac{3}{4}$ " (69.9 mm) ABOVE TOP OF THE FOUNDATION. THE CONTRACTOR SHALL CONFIRM ANCHOR BOLT EXTENTION WITH ENGINEER.
- 8. RACEWAYS SHALL PROJECT 1" (25.4 mm) ABOVE THE TOP OF THE FOUNDATION.
- 9. THE CABLE TRENCH SHALL BE BACKFILLED AND FIRMLY COMPACTED BEFORE THE LIGHT IS ERECTED.



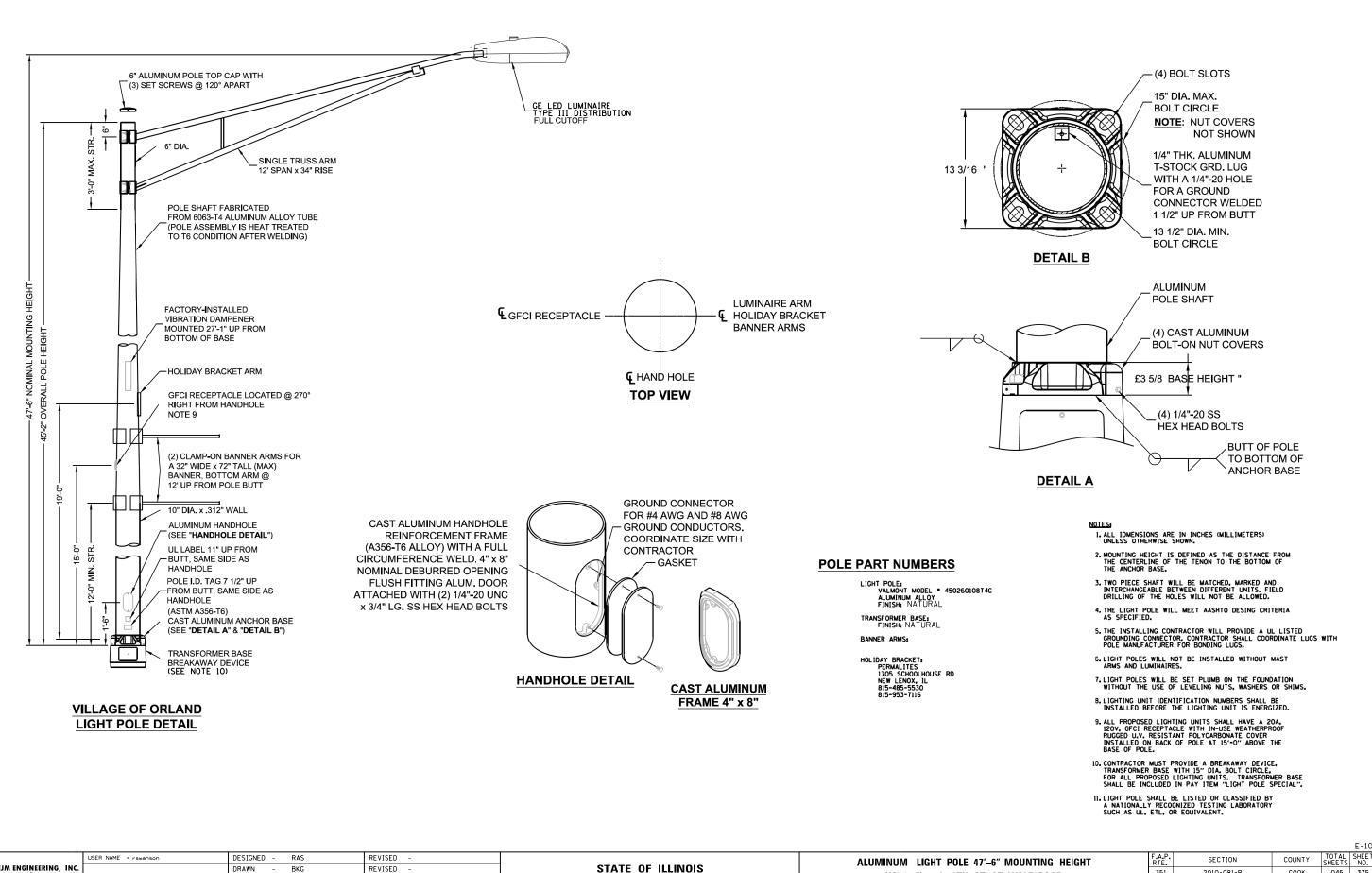


								E-09
:	USER NAME = rswanson	DESIGNED - RAS	REVISED -			F.A.P. RTF	SECTION	COUNTY TOTAL SHEET
	NEERING, INC.	DRAWN - BKG	REVISED -	STATE OF ILLINOIS	LIGHT POLE OFFSET FOUNDATION DETAILS	351	2010-081-R	COOK 1045 374
	PLOT SCALE = 50.00' / IN.	CHECKED – MKR	REVISED -	DEPARTMENT OF TRANSPORTATION				CONTRACT NO. 60L72
	PLOT DATE = 10/21/2014	DATE - 10/22/2014	REVISED -]	SCALE: NONE SHEET 1 OF 1 SHEETS STA. TO STA.		ILLINOIS FED. 4	ID PROJECT

MARK	NO.	SIZE	LENGTH	SHAPE
a	10	6	SEE BELOW	—
s	12	4	8'-0'' 2.438 m	
s ₁	3	3	7'-6'' 2.286 m	
v ₁	8	6	2′-9″ 0.838 m	—
V ₂				

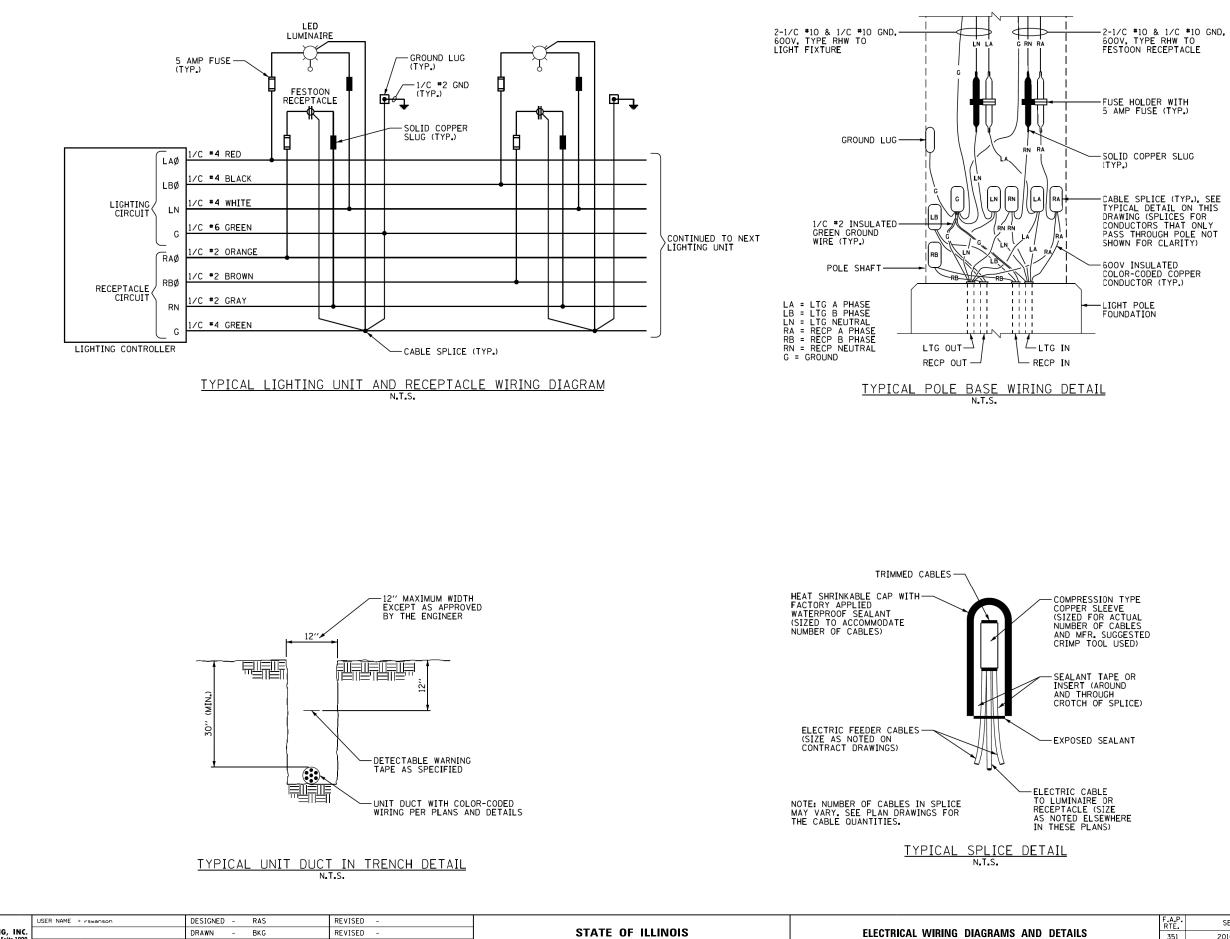
OFFSET SCHEDULE

SEWER	PILE OFFSET	LENGTH
DIAM.d	from¢-MED'N	BAR a
IN.	FT.	FT.
UP TO 24"	3'-3''	# 6 × 5′−3″
(609.6 mm)	(0.991 m)	(1.600 m)
27" (685.8 m)TO	3'-9''	5'-9''
36" (914.4 mm)	(1.143 m)	(1.753 m)
42" (1066.8 mm) TO	4'-6''	6'-6''
48" (1219.2 mm)	(1.372 m)	(1.981 m)
54" (1371.6 mm) TO	5'-0''	7'-0''
60" (1524.0 mm)	(1.524 m)	(2.134 m)
66" (1676.4 mm) TO	5'-6''	7'-6''
72'' (1828.8 mm)	(1.676 m)	(2.286 m)



1		USER NAME = rswanson	DESIGNED - RAS	REVISED -		ALUMINUM LIGHT POLE 47'-6" N
	EJM ENGINEERING, INC. 411 South Wells Street Suite 1000		DRAWN - BKG	REVISED -	STATE OF ILLINOIS	
ž	Chicago, Illinois 60607	PLOT SCALE = 50.00' / IN.	CHECKED - MKR	REVISED -	DEPARTMENT OF TRANSPORTATION	US 6 /IL 7 (159TH ST) AT \
		PLOT DATE = 10/21/2014	DATE - 10/22/2014	REVISED -		SCALE: NONE SHEET 1 OF 1 SHEETS ST

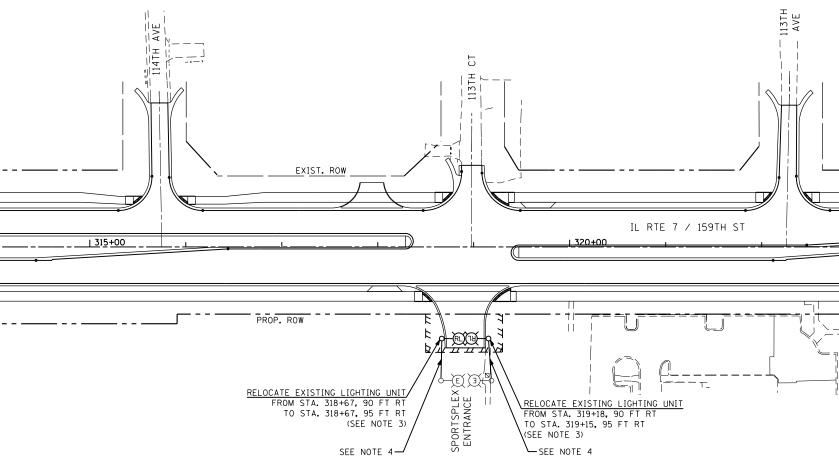
AT WOLF ROAD		351	2010-081-R	соок	1045	375	
		IICAD	_		CONTRACT	NO. 6	50L72
	STA.	TO STA.		ILLINOIS FED. A	ID PROJECT		



	USER NAME = rswanson	DESIGNED -	RAS	REVISED -							
EJM ENGINEERING, INC.		DRAWN -	BKG	REVISED -	STATE OF ILLINOIS	ELECTRICAL WIRI			NG DIAGRAI		
Chicago, Illinois 60607	PLOT SCALE = 50.00' / IN.	CHECKED -	MKR	REVISED -	DEPARTMENT OF TRANSPORTATION						
	PLOT DATE = 10/21/2014	DATE -	10/22/2014	REVISED -		SCALE: NONE	SHEET 1	0F 1	SHEETS		

								E-11
RAMS AND DETAILS		F.A.P. RTE.	SEC	LION	COUNTY	TOTAL SHEETS	SHEET NO.	
RA	MS AND	DETAILS	351	2010-	081-R	СООК 1045		376
						CONTRACT	NO. 6	0L72
TS	STA.	TO STA.			ILLINOIS FED. AI	D PROJECT		

- NOTES:
- 1. PROPOSED LIGHT POLE FOUNDATIONS SHALL BE 24" DIAMETER AND WILL BE PAID FOR AS "LIGHT POLE FOUNDATION, 24" DIAMETER." BOLT CIRCLE, ANCHOR BOLT DIAMETER, AND BOLT PROJECTION SHALL BE CONFIRMED IN THE FIELD BY THE CONTRACTOR.
- 2. POLES MUST BE REINSTALLED ON THEIR NEW FOUNDATIONS ON THE SAME WORKING DAY THEY ARE REMOVED.
- 3. PRECISE LOCATIONS OF NEW FOUNDATIONS SHALL BE ADJUSTED IF REQUIRED TO AVOID EXISTING CONDUITS.
- 4. LOCATE EXISTING CONDUIT. SPLICE NEW 2" HDPE CONDUIT TO EXISTING CONDUIT AND ROUTE NEW HDPE CONDUIT TO NEW FOUNDATION. PULL EXISTING CABLING BACK AS REQUIRED AND REROUTE TO NEW FOUNDATION VIA NEW HDPE CONDUIT. CONDUIT SPLICING, NEW HDPE CONDUIT, AND CABLE REROUTING ARE INCLUDED IN THE PRICE OF THE ITEM "RELOCATE EXISTING LIGHTING UNIT."
- 5. PROPOSED LIGHT POLE FOUNDATIONS ON THIS SHEET SHALL BE PROVIDED WITH (2) $3^\prime\!/_2^\prime\prime\prime$ PVC RACEWAYS IN LIEU OF THE RACEWAYS SHOWN ON SHEET E-08.





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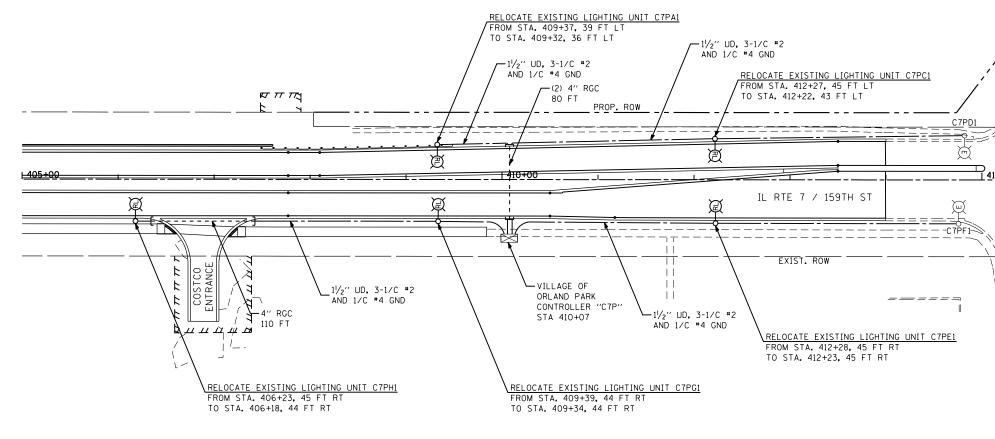
ND16									E-12
.:[USER NAME = rswanson	DESIGNED - RAS	REVISED -		LIGHTING RELOCATION PLAN	F.A.P. RTE.	SECTION	COUNTY TOTAL SHEET
Ψ	EJM ENGINEERING, INC. 411 South Wells Street Suite 1000 Chicago, Illinois 60607		DRAWN - BKG	REVISED -	STATE OF ILLINOIS		351	2010-081-R	COOK 1045 377
ž	Chicago, Illinois 60607	PLOT SCALE = 50.00' / IN.	CHECKED – MKR	REVISED -	DEPARTMENT OF TRANSPORTATION	US 6 / IL 7 AT SPORTSPLEX ENTRANCE			CONTRACT NO. 60L72
15		PLOT DATE = 10/21/2014	DATE - 10/22/20	14 REVISED -		SCALE: 1" = 50' SHEET 1 OF 1 SHEETS STA. 314+00 TO STA. 323+00		ILLINOIS FED. /	AID PROJECT



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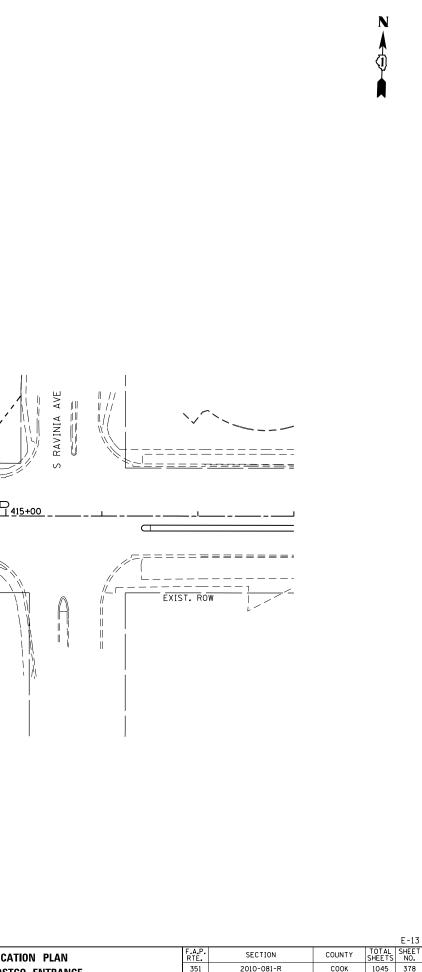
- 1. POLES MUST BE REINSTALLED ON THEIR NEW FOUNDATIONS ON THE SAME WORKING DAY THEY ARE REMOVED.
- 2. PROPOSED LIGHT POLE FOUNDATIONS ON THIS SHEET SHALL BE PROVIDED WITH (2) $3^{\prime}\!/_{2}''$ PVC RACEWAYS IN LIEU OF THE RACEWAYS SHOWN ON SHEET E-08.



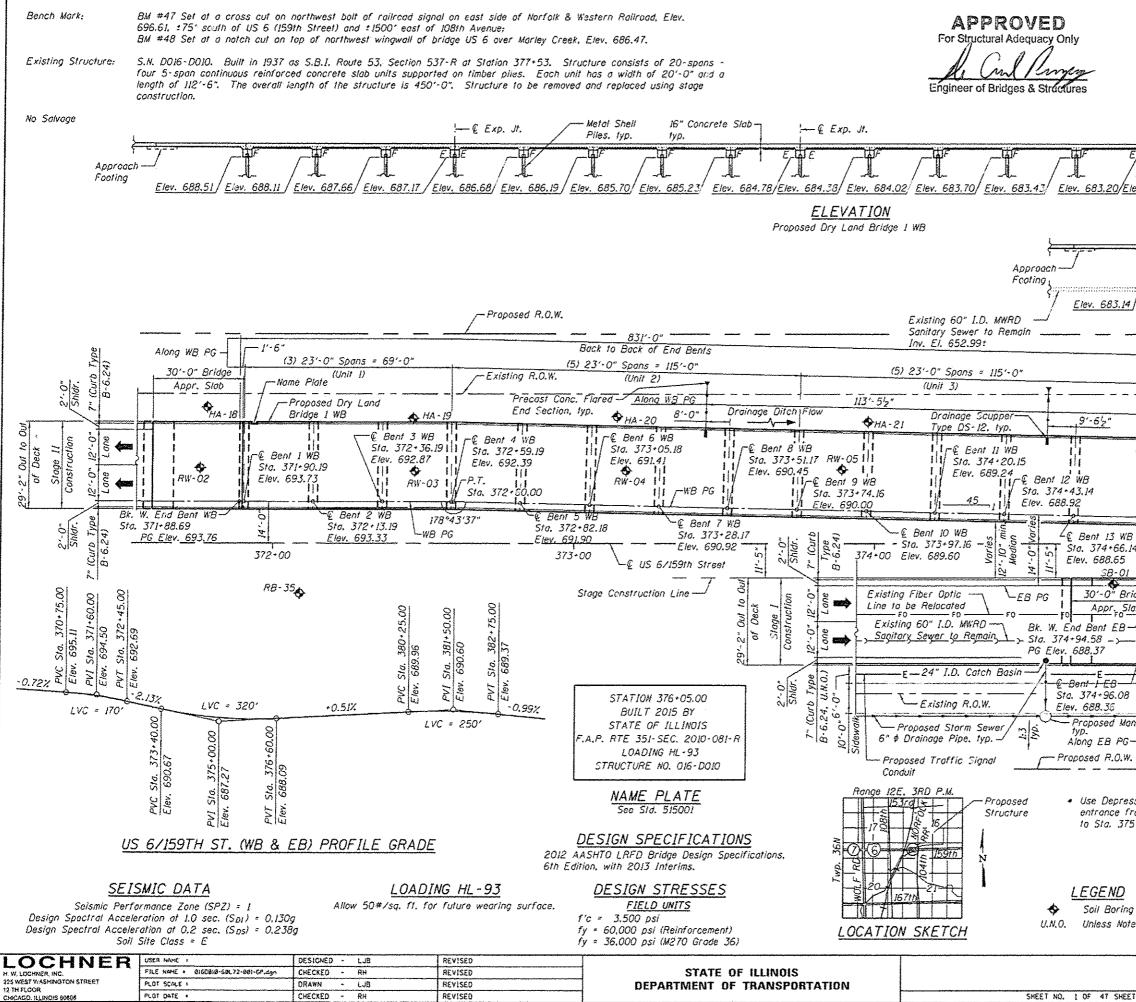


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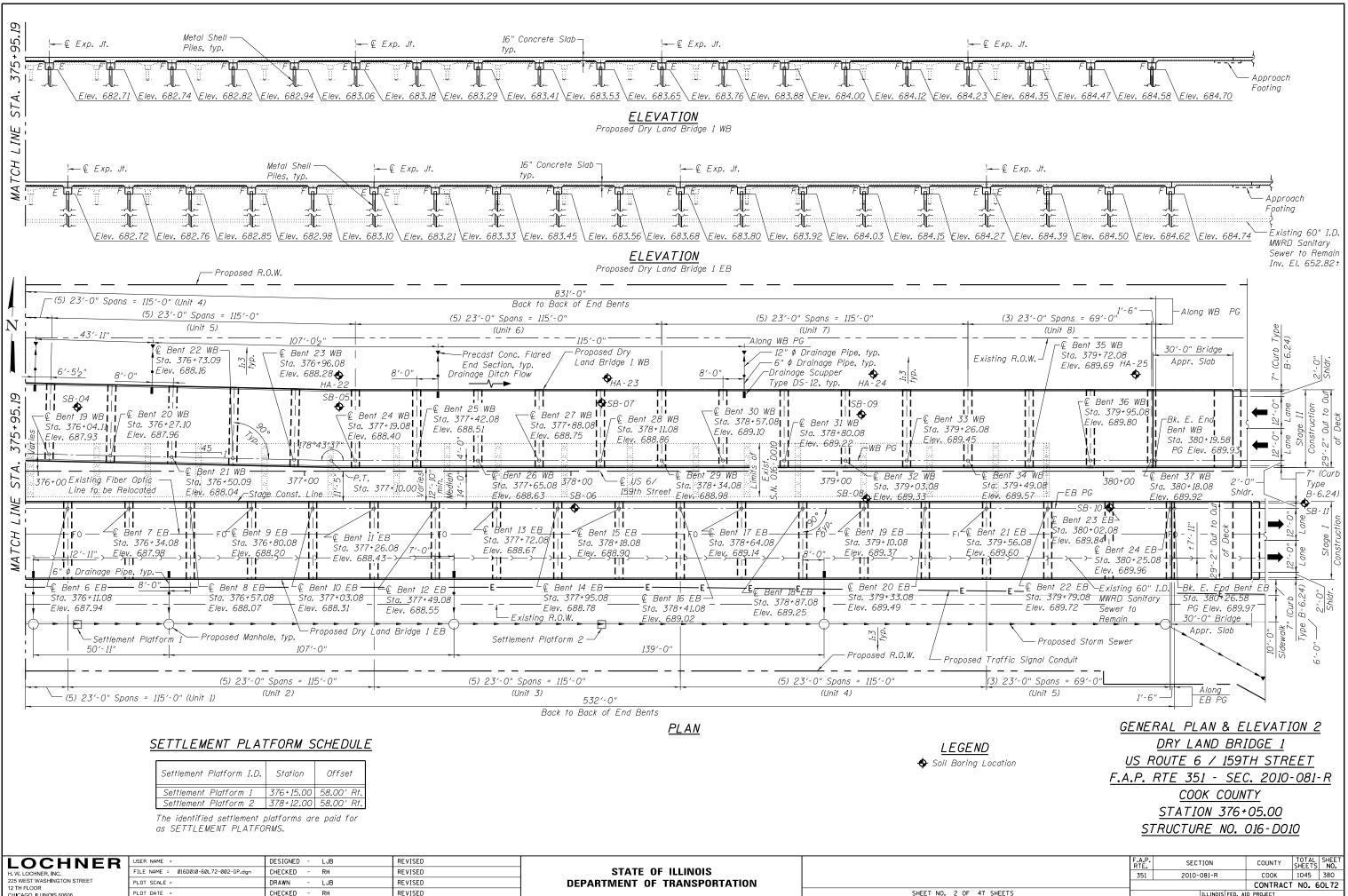
•		USER NAME = rswanson	DESIGNED - RAS	REVISED -		LIGHTING RELOCATIO
Ē	EJM ENGINEERING, INC. 411 South Wells Street Suite 1000		DRAWN – BKG	REVISED -	STATE OF ILLINOIS	
E S	Chicago, Illinois 60607	PLOT SCALE = 50.00′ / IN.	CHECKED - MKR	REVISED -	DEPARTMENT OF TRANSPORTATION	US 6/IL 7 AT COSTCO
1		PLOT DATE = 10/21/2014	DATE - 10/22/2014	REVISED -		SCALE: 1" = 50' SHEET 1 OF 1 SHEETS S



CO ENTRANCE				351	2010-081-R		COOK	1045	378	
		TANUL						CONTRACT	NO. 6	50L72
S	STA.	405+00	TO STA.	418+00		ILLINOIS	FED. A	D PROJECT		



Elev. 683.02 Elev. 682.87 El	OBIOO6053 LICENSED STRUCTURAL ENGINEER OF ILLI OF ILLI EV. 682.78 Elov. 582.72	STA. 375+95.19
Metal Shel Piles, typ. 4 <u>Elev. 682.97</u> <u>Elev. 682.84</u> <u>ELEVATIC</u> Proposed Dry Lond Bi	Typ. Typ.	MATCH
93'-6'2"	48'- Orainage 8'-0" IVp. 1 III E Bent 16 WB III Sta. 375+35.12 III Elev. 688.09 - E Bent III E Bent IIII IIII	Limits of Limits of S.M. Olfo-Dout
1 10 be 1 Reconstructed 1 Name Plate 1 Value 1 Value	Elev. 688.06 530.37 & Bent 4 EB Elev. 6 Sto. 375-65.08 F Elev. 687.97 & 48'-1" *** *** *** *** *** *** *** *	5788.08 87.93 ↓ ↓↓ ↓↓ ↓↓ ↓↓ ↓↓
Ĺ	<u>P. RTE 351 - SEC</u> <u>COOK COUN</u> <u>STATION 376+</u> <u>STRUCTURE NO,</u>	IDGE_1 TH_STREET C2010-081-R ITY -05.00 016-D010
EETS	F.A.P. SECTION RTE. 331 2010-081-R [ILLINOIS] FED. A	COOK IO45 379 CONTRACT NO. 60L72



Settlement Platform I.D.	Station	Offset
	376+15.00	58.00' Rt.
Settlement Platform 2	378+12.00	58.00' Rt.

HICAGO, ILLINOIS 6

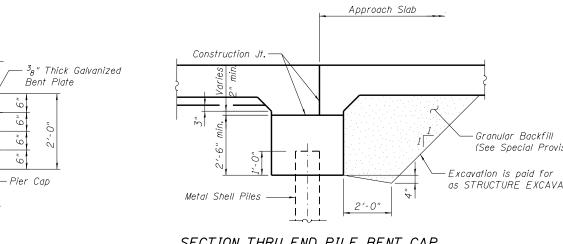
GENERAL NOTES

- 1. Calculated weight of Structural Steel M270 Grade 36 = 2,370 lb.
- All structural steel shall be AASHTO M 270 Grade 36. 2.
- Reinforcement bars designated (E) shall be epoxy coated. 3.
- Protective coat shall be applied to surfaces of bridge deck, approach slabs and curbs. 4.
- Concrete Sealer shall be applied to the designated areas of the Expansion Bent Caps. See Sheet 24 for locations.
- Refer to Roadway Plans for type and quantity of fill material required 6. within the limits of Dry Land Bridge.
- 7. Piles shall be driven through 18" diameter precored holes extending to the estimated elevation shown on sheet 25 according to Article 512.09(c) of the Standard Specifications. Cost included in driving piles. However, the contractor may cease the precore of piles at the elevation peat is encountered. Loose sand shall be backfilled in the precore holes without compacting.
- 8. The deck of the existing land bridge shall be removed. The existing bent caps and/or timber piles shall be removed to 2' below bottom of the proposed land bridge slab, abandoned in place and buried under the proposed land bridges.
- 9. The Contractor shall verify locations of all underground utilities before driving piling. Any disturbance or damage to existing structures, utilities or other property, caused by the Contractor's operation, shall be repaired by the Contractor in a manner satisfactory to the Engineer at no additional cost to the Department.
- 10. Excavation for placement of slab shall be paid for as Earth Excavation. See Roadway Plans.

3" Strip Seal 3₈" Thick Galvanized Strip Seal – Expansion Joint Rent Plate Expansion Cur. 3₈" Thick Galvanized Joint Rail Bent Plate (centered -**>** A Curb about Exp. Jt., fixed on one side only) ′₂" ¢ Galvanized Cost to be included in '₂" ¢ Galvanized Anchor Anchor Bolts, FURNISHING AND ERECTING 5 Bolts, typ. typ. STRUCTURAL STEEL. Cost to be included with <u>______</u> FURNISHING AND — Pier Cap ERECTING 6" 6" Metal Shell Piles ५ ♦ 4" Embedment STRUCTURAL STEEL. 2'-0" typ. 3'-0" SECTION A-A SECTION THRU END PILE BENT CAP END PLAN OF EXPANSION JOINT DETAILS Typical at each end of Expansion Joints Curb Type B6.24, Proposed Manhole (Type A) Unless Noted Otherwise -See Drainage & Utility Plan 5'-0' 10'-0" ±16' North of Proposed Dry Land Bridge WB Drainage Scupper, DS-12for details Top of Deck--Curb Type B6.24 3 3'-0" -Drainage Scupper, DS-12 -Top of Deck 6" Ø Schedule 4% PVC Pipe 2% typ. 6" Ø Schedule– Flexible Transition Coupling -,0 80 PVC Pipe (conforming to ASTM C1173) See Drainage & Utility Plans Slope connected to Drainage Scupper, for detail invert elevations Precast Reinforced -Variers Drainage System_ DS-12, paid for as Concrete Flared Drainage System No. 1 No. 1 End Section "/"/ft_slope (Std. 542301-03) (See Drainage & -Drainage System Utility Plans) No. 1 Cast In Place Concrete Thrust Block 24"x24"x24" (See Drainage & Utility Plans) See Drainage & Utility Plans SCUPPER AND DRAINAGE SYSTEM DETAILS (Looking East)

TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
Granular Backfill for Structures	Cu. Yd.		58	58
Removal of Existing Structures No. 1	Each	1		1
Structure Excavation	Cu. Yd.		1,494	1,494
Concrete Structures	Cu. Yd.		530.5	530.5
Concrete Superstructure	Cu. Yd.	2,589.2		2,589.2
Bridge Deck Grooving	Sq. Yd.	4,249		4,249
Protective Coat	Sq. Yd.	4,955		4,955
Reinforcement Bars, Epoxy Coated	Pound	468,150	58,470	526,620
Furnishing Metal Shell Piles 14"x0.25"	Foot		21,644	21,644
Driving Piles	Foot		21,644	21,644
Test Pile Metal Shells	Each		16	16
Name Plates	Each	2		2
Preformed Joint Strip Seal	Foot	322		322
Concrete Sealer	Sq. Ft.		2,739	2,739
Drainage Scuppers, DS-12	Each	12		12
Drainage System No. 1	Each	1		1
Furnishing and Erecting Structural Steel	Pound	2,370		2,370
Settlement Platforms	Each		2	2

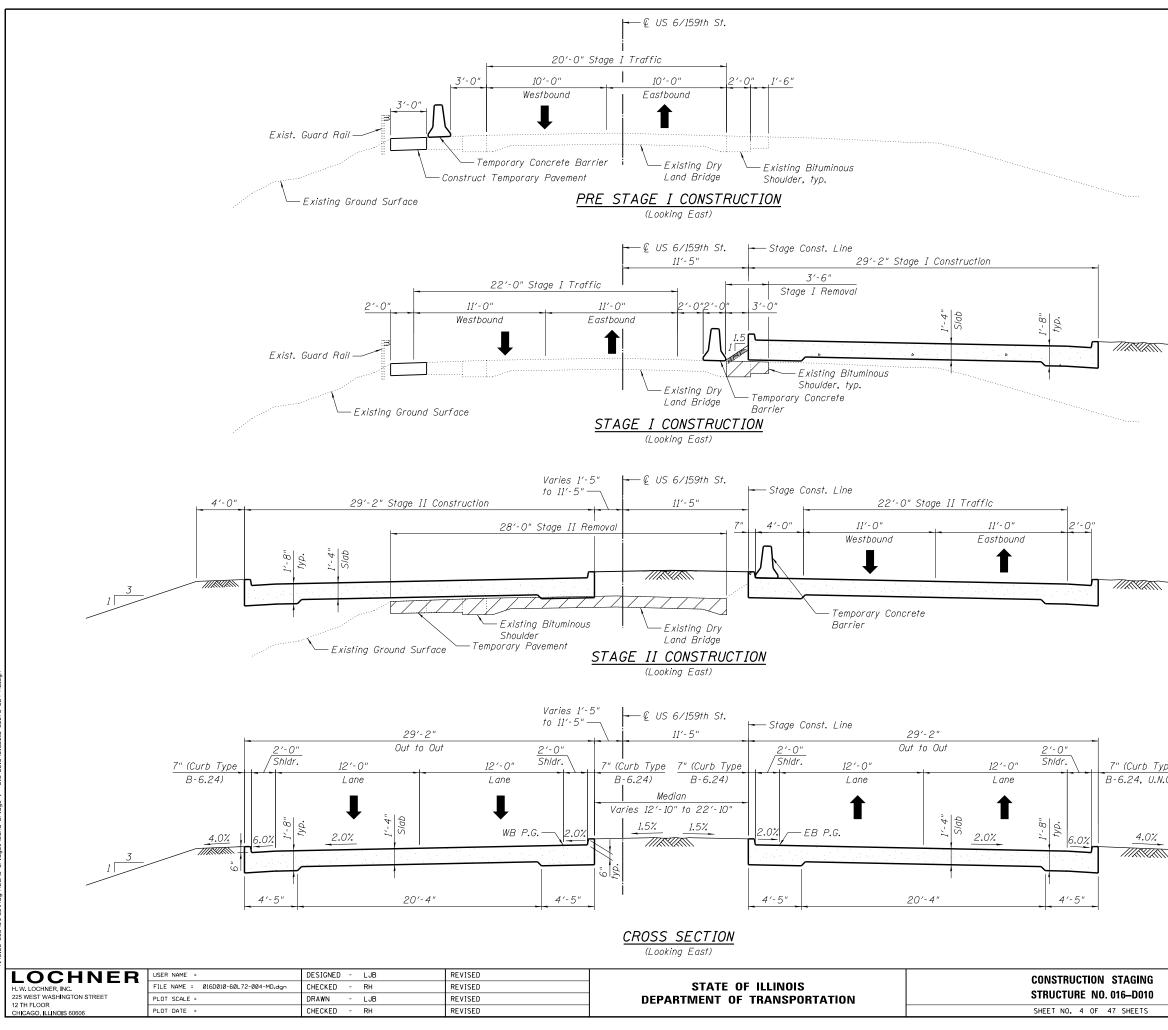


DESIGNED - LJB REVISED USER NAME = LOCHNER **GENERAL NOTES AND BI** STATE OF ILLINOIS FILE NAME = Ø16DØ10-60L72-003-GN.dor CHECKED - RH REVISED H. W. LOCHNER, INC STRUCTURE NO. 225 WEST WASHINGTON STREET PLOT SCALE = DRAWN - EF REVISED **DEPARTMENT OF TRANSPORTATION** 12 TH ELOOR SHEET NO. 3 OF 4 PLOT DATE = CHECKED - RH REVISED CHICAGO, ILLINOIS 6060

INDEX OF SHEETS

SHEET NO.	<u>TITLE</u>
1	General Plan & Elevation 1
	General Plan & Elevation 2
2 3	General Notes and Bill of Material
4	Construction Staging
5	Temporary Concrete Barrier
6	Top of Slab Elevation Plan WB
7	Top of Slab Elevations 1 WB
8	Top of Slab Elevations 2 WB
9	Top of Slab Elevation Plan EB
10	Top of Slab Elevations 1 EB
11	Top of Slab Elevations 2 EB
12	Top of Approach Slab Elevations 1
13	Top of Approach Slab Elevations 2
14	Deck Plan & Cross Section 1
15	Superstructure Details 1
16	Deck Plan & Cross Section 2
17	Superstructure Details 2
18	Deck Plan & Cross Section 3
19	Superstructure Details 3
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21	Approach Slab Details 2
22	Preformed Joint Strip Seal
23	Drainage Scupper, DS-12
24 25	Typical Bent Details 1 Typical Bent Details 2
25	Typical Bent Details 2 Typical Bent Details 3
20	Typical Bent Details 4
28	Typical Bent Details 5
29	Metal Shell Piles
30	Soil Borings 1
31	Soil Borings 2
32	Soil Borings 3
33	Soil Borings 4
34	Soil Borings 5
35	Soil Borings 6
36	Soil Borings 7
37	Soil Borings 8
) 38	Soil Borings 9
39	Soil Borings 10
40	Soil Borings 11
41	Soil Borings 12
42	Soil Borings 13
43	Soil Borings 14
44	Soil Borings 15
45	Soil Borings 16
46 47	Soil Borings 17 Soil Borings 18
47	Soil Borings 18

BILL OF MATERIAL		SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
016–D010	351	2010-081-R	СООК	1045	381
	CONTRACT NO. 60L72				
47 SHEETS	ILLINOIS FED. AID PROJECT				



7" (Curb Type B-6.24, U.N.O.)

4.0%

LEGEND

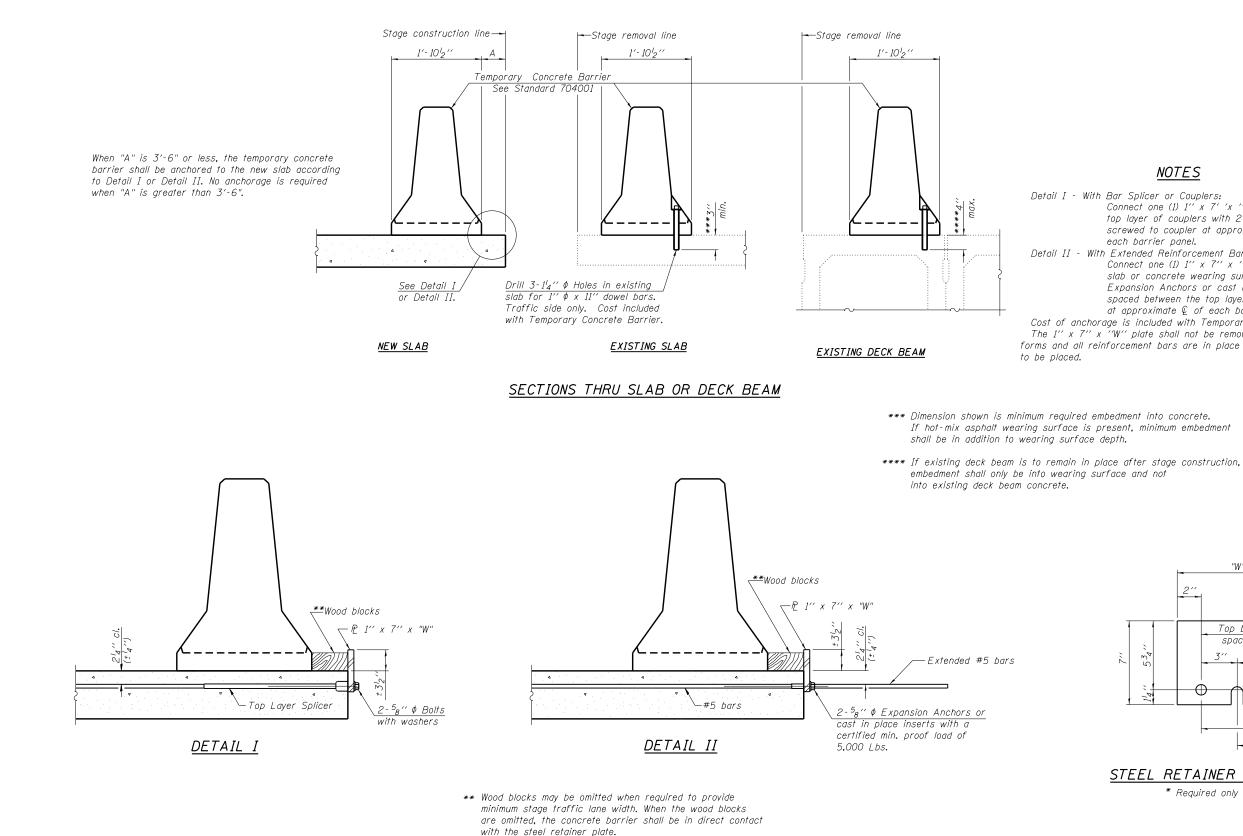


Existing Structure Removal

U.N.O.

Unless Noted Otherwise

STAGING). 016–D010		F.A.P. SECTION		TOTAL SHEETS	SHEET NO.
		2010-081-R	СООК	1045	382
			CONTRACT	NO. 6	0L72
47 SHEETS	ILLINOIS FED. AID PROJECT				



"W" = Top bars spacing + 4"

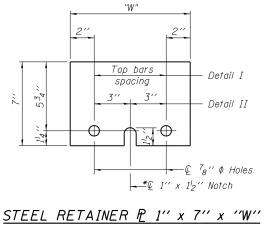
7-1-10

R-27

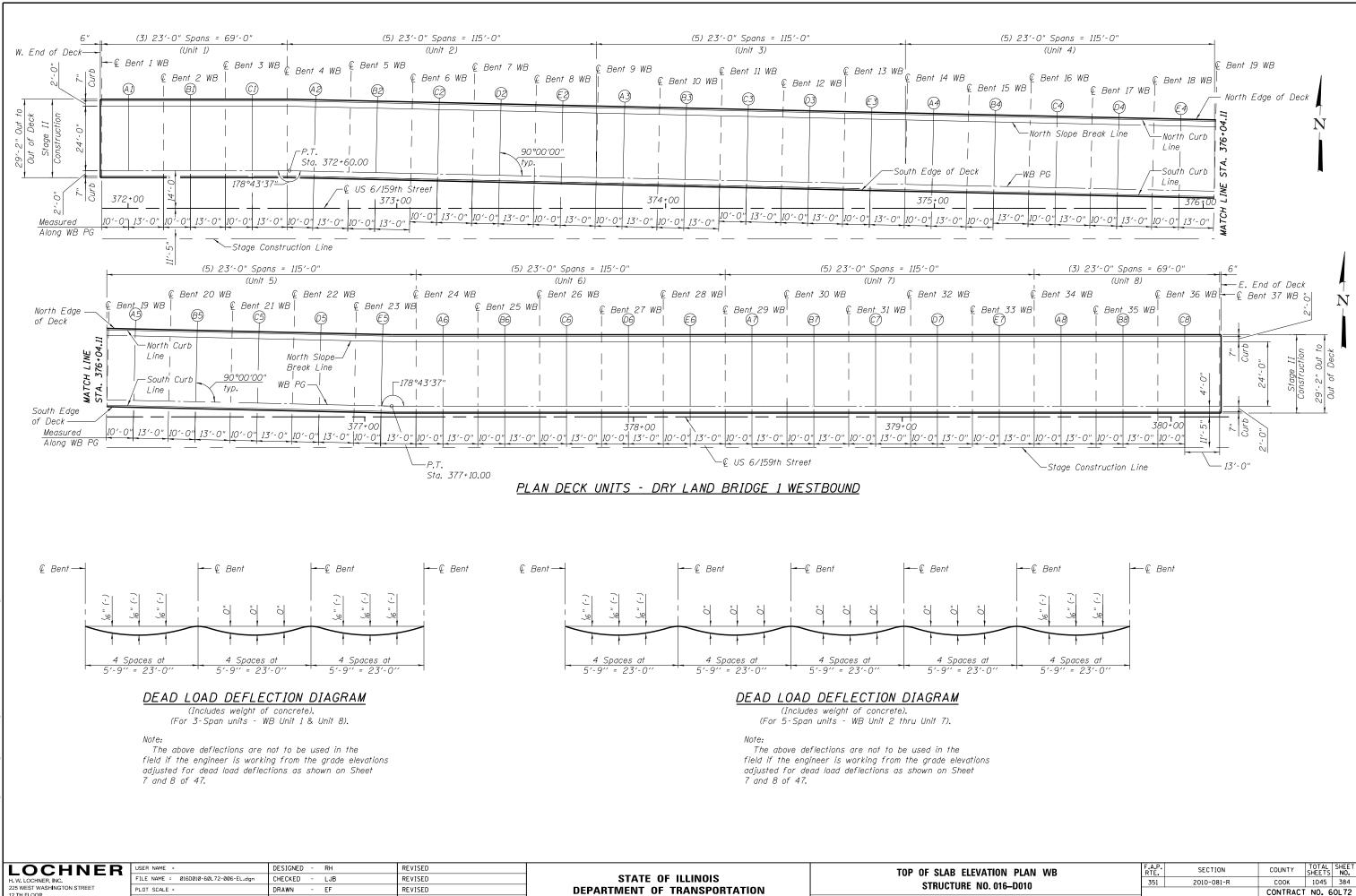
LOCHNER	USER NAME =	DESIGNED - LJB	REVISED		TEMPORARY CONCRETE BARRIER	F.A.P. SECTION	COUNTY TOTAL SHEET SHEFTS NO.
H. W. LOCHNER, INC.	FILE NAME = 016D010-60L72-005-TC.dgn	CHECKED - RH	REVISED	STATE OF ILLINOIS		351 2010-081-R	СООК 1045 383
225 WEST WASHINGTON STREET 12 TH FLOOR	PLOT SCALE =	DRAWN - EF	REVISED	DEPARTMENT OF TRANSPORTATION	STRUCTURE NO. 016–D010		CONTRACT NO. 60L72
CHICAGO, ILLINOIS 60606	PLOT DATE =	CHECKED - RH	REVISED		SHEET NO. 5 OF 47 SHEETS	ILLINOIS FED. AID PROJECT	

NOTES

Detail I - With Bar Splicer or Couplers: Connect one (1) $1'' \times 7' \times 'W''$ steel P to the top layer of couplers with $2^{-5}s'' \phi$ bolts screwed to coupler at approximate \mathcal{Q} of each barrier panel. Detail II - With Extended Reinforcement Bars: Connect one (1) I'' x 7'' x 'W'' steel ₱ to the concrete slab or concrete wearing surface with 2-5₈'' ¢ Expansion Anchors or cast in place inserts spaced between the top layer of reinforcement at approximate Q of each barrier panel. Cost of anchorage is included with Temporary Concrete Barrier. The 1" x 7" x "W" plate shall not be removed until stage II construction forms and all reinforcement bars are in place and the concrete is ready



* Required only with Detail II



I OCHNER	USER NAME =	DESIGNED - RH	REVISED		TOP OF SLAB ELEVATIO	
H. W. LOCHNER, INC.	FILE NAME = Ø16D010-60L72-006-EL.dgn	CHECKED - LJB	REVISED	STATE OF ILLINOIS		
225 WEST WASHINGTON STREET 12 TH FLOOR	PLOT SCALE =	DRAWN - EF	REVISED	DEPARTMENT OF TRANSPORTATION	STRUCTURE NO.	
CHICAGO, ILLINOIS 60606	PLOT DATE =	CHECKED - RH	REVISED		SHEET NO. 6 OF 47	

47 SHEETS

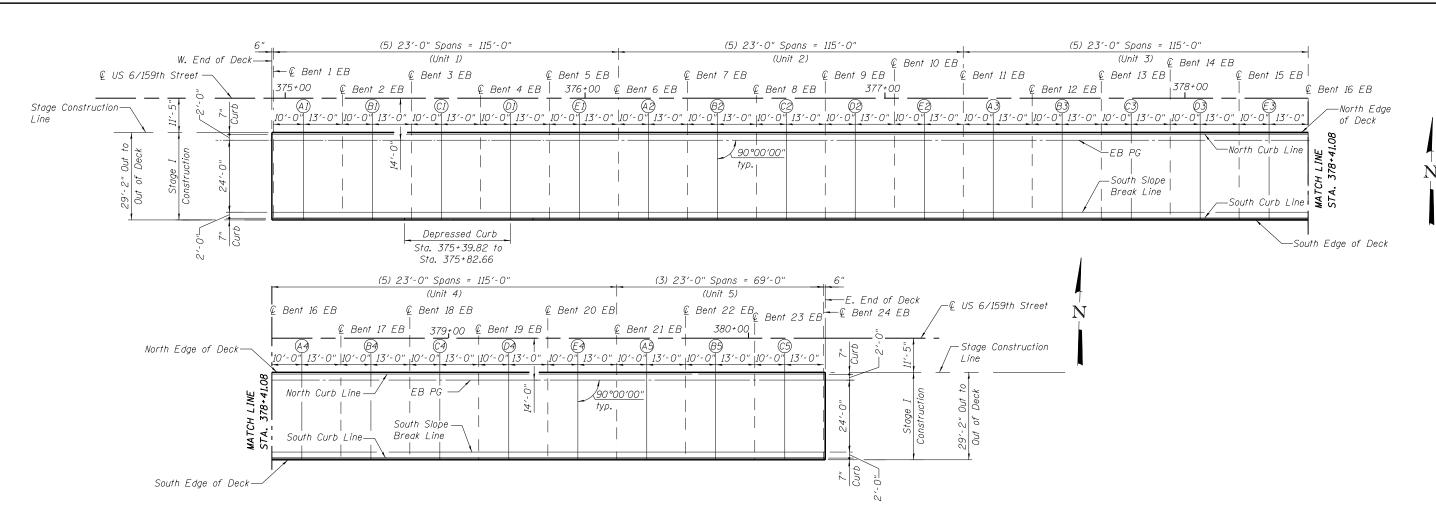
ſ		NORTH ED	GE OF	DECK			
	Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection		Location
	W. End of Deck Q WB Bent 1	371+89.69 371+90.19	-40.58 -40.58		693.64 693.63		End of Deck & WB Bent 1
	A1 © WB Bent 2	372+00.19 372+13.19	-40.58 -40.58		693.46 693.23		A1 2 WB Bent 2
	B1 ÇWBBent 3	372+23.19 372+36.19	-40.58 -40.58		693.03 692.77		B1 WB Bent 3
	C1 ¢WBBent4	372+46.19 372+59.19	-40.58 -40.58	692.57	692.57 692.29		C1 WB Bent 4
	A2 & WB Bent 5	372+69.78 372+82.78	-40.37	692.06	692.06 691.79		A2 WB Bent 5
	© WB Bent 6	372+92.77 373+05.77	-39.86	691.57	691.57 691.30		B2 B2 B2 Bent 6
	€ WB Bent 7	373+15.77 373+28.77	-39.35	691.08	691.08 690.81	, and the second s	C2
	D2	373+38.76 373+51.76	-38.84	690.59	690.59 690.33		2 WB Bent 8
	E2	373+61.76	-38.33	690.13	690.13		
	€ WB Bent 9 A3	373+74.75 373+84.75	-38.04	689.71	689.89 689.71		WB Bent 9 A3
	© WB Bent 10 B3	373+97.75 374+07.75	-37.53 -37.31	689.32	689.49 689.32		WB Bent 10 B3
	© WB Bent 11 C3	374+20.74 374+30.74	-37.02 -36.80	688.98	689.13 688.98	Ę į	WB Bent 11 C3
	© WB Bent 12 D3	374+43.74 374+53.73	-36.51 -36.28		688.81 688.69	С. Г.	WB Bent 12 D3
	© WB Bent 13 E3	374+66.73 374+76.73	-36.00 -35.77		688.54 688.44	L C	WB Bent 13 E3
	€ WB Bent 14 A4	374+89.73 374+99.72	-35.48 -35.26		688.31 688.23	Ę	WB Bent 14 A4
	€ WB Bent 15 B4	375+12.72 375+22.72	-34.97 -34.75	688.13	688.13 688.06	Ę	WB Bent 15 B4
	€ WB Bent 16 C4	375+35.71 375+45.71	-34.46	687.99	687.99 687.94	Ę	WB Bent 16 C4
	€ WB Bent 17 D4	375+58.71 375+68.71	-33.95	687.89	687.89 687.86	Ę	WB Bent 17 D4
	© WB Bent 18 E4	375+81.70 375+91.70	- 33.44	687.84	687.84 687.83	Ę	WB Bent 18 E4
	€ WB Bent 19	376+04.70	-32.93	687.83	687.83	Ę	WB Bent 19
	A5 € WB Bent 20	376+14.69 376+27.69	-32,42	8 687,86	687.84 687.86	Ę	A5 WB Bent 20
	85 & WB Bent 21	376+37.69 376+50.69	-32.20	687.94	687.89 687.94	Ę	
	C5 € WB Bent 22	376+60.68 376+73.68	-31.69	688.06	688.00 688.06	Ę	C5 WB Bent 22
	D5 € WB Bent 23	376+83.68 376+96.67	-31.17 -30.89	688.18	688.12 688.18	Ę	D5 WB Bent 23
	E5 € WB Bent 24	377+06.67 377+19.08	-30.66 -30.58		688.23 688.30	<i>Q</i>	E5 WB Bent 24
	A6 ⊈ WB Bent 25	377+29.08 377+42.08	-30.58 -30.58		688.35 688.41	<i>Q</i>	A6 WB Bent 25
n	B6 ⊊ WB Bent 26	377+52.08 377+65.08	-30.58 -30.58		688.46 688.53	Ç	B6 WB Bent 26
	⊂ C6 ⊈ WB Bent 27	377+75.08 377+88.08	-30.58 -30.58	688.58	688.58 688.65	Ę –	C6 WB Bent 27
	C WB Bent 28	377+98.08 378+11.08	-30.58	688.70	688.70 688.76	Ę E	D6 WB Bent 28
	£ WB Bent 29	378+21.08 378+34.08	-30.58	688.82	688.82 688.88		E6 WB Bent 29
	¢ WB Bent 25 A7 ¢ WB Bent 30	378+44.08	-30.58	688.93	688.93		WB Bent 30
	B7	378+57.08 378+67.08	-30.58	689.05	689.00 689.05	ų į	B7
n	© WB Bent 31 C7	378+80.08 378+90.08	-30.58	689.17	689.12 689.17	¥	WB Bent 31 C7
	© WB Bent 32 D7	379+03.08 379+13.08	-30.58 -30.58	689.28	689.23 689.28	ų į	WB Bent 32 D7
n	© WB Bent 33 E7	379+26.08 379+36.08	-30.58 -30.58	689.40	689.35 689.40	<u> </u>	WB Bent 33 E7
	€ WB Bent 34 A8	379+49.08 379+59.08	-30.58 -30.58	689.52	689.47 689.52	l é	WB Bent 34 A8
n	€ WB Bent 35 B8	379+72.08 379+82.08	-30.58 -30.58		689.59 689.64	Ę	WB Bent 35 B8
	€ WB Bent 36 C8	379+95.08 380+05.08	-30.58 -30.58		689.70 689.75	С. С.	WB Bent 36 C8
	€ WB Bent 37 E. End of Deck	380+18.08 380+18.58	-30.58 -30.58	689.82	689.82 689.82	-	WB Bent 37 End of Deck
				ESIGNED - RH	REVISED		
	H. W. LOCHNER, INC.	E = Ø16D010-60L72-007-E	EL.dgn Cł	HECKED - LJB	REVISED		
1	225 WEST WASHINGTON STREET PLOT SCA 12 TH FLOOR			RAWN - EF	REVISED		DEPA

NORTH CURB LINE						Δ	NORTH SLOP	E BREA	K LINE		
Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection		Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection	
W. End of Deck ♀ WB Bent 1	371+89.69 371+90.19	-40.00 -40.00	693.14 693.13	693.14 693.13		W. End of Deck @ WB Bent 1	371+89.69 371+90.19	-38.00 -38.00	693.26 693.25	693.26 693.25	
A1 & WB Bent 2	372+00.19 372+13.19	-40.00 -40.00	692.96 692.73	692.96 692.73		A1 ÇWBBent2	372+00.19 372+13.19	-38.00 -38.00	693.08 692.85	693.08 692.85	
BI	372+23.19	-40.00	692.53	692.53		B1	372+23.19	-38.00	692.65	692.65 692.39	
© WB Bent 3 Cl	372+36.19 372+46.19	-40.00 -40.00	692.27 692.07	692.27 692.07		© WB Bent 3 C1	372+36.19 372+46.19	-38.00 -38.00	692.39 692.19	692.19	
€ WB Bent 4 A2	372+59.19 372+69.77	-40.00 -39.79	691.79 691.56	691.79 691.56		€ WB Bent 4 A2	372+59.19 372+69.72	-38.00 -37.79	691.91 691.69	691.91 691.69	
∉ WB Bent 5	372+82.76	-39.50	691.29	691.29		€ WB Bent 5	372+82.72	-37.50	691.41	691.41 691.20	
B2 © WB Bent 6	372+92.76 373+05.76	-39.28 -38.99	691.07 690.80	691.07 690.80		B2 € WB Bent 6	372+92.72 373+05.71	-37.28 -36.99	691.20 690.92	690.92	
C2 € WB Bent 7	373+15.76 373+28.75	-38.77 -38.48	690.58 690.31	690.58 690.31		C2 © WB Bent 7	373+15.71 373+28.71	-36.77 -36.48	690.71 690.43	690.71 690.43	
D2	373+38.75	-38.26	690.09	690.09		D2	373+38.71	-36.26	690.22	690.22 689.95	
€ WB Bent 8 E2	373+51.75 373+61.74	-37.97 -37.75	689.83 689.63	689.83 689.63		& WB Bent 8 E2	373+51.70 373+61.70	-35.97 -35.75	689.95 689.76	689.76	
€ WB Bent 9 A3	373+74.74 373+84.74	-37.46 -37.23	689.39 689.21	689.39 689.21		€ WB Bent 9 A3	373+74.70 373+84.69	-35.46 -35.23	689.51 689.33	689.51 689.33	
∉ WB Bent 10	373+97.74	-36.95	688.99	688.99		∉ WB Bent 10	373+97.69	-34.95	689.11	689.11 688.95	
83 @ WB Bent 11	374+07.73 374+20.73	-36.72 -36.43	688.82 688.63	688.82 688.63		B3 © WB Bent 11	374+07.69 374+20.69	-34.72 -34.44	688.95 688.75	688.75	
⊂ C3 © WB Bent 12	374+30.73 374+43.72	-36.21 -35.92	688.49 688.31	688.49 688.31		C3 ØWB Bent 12	374+30.68 374+43.68	-34.21 -33.92	688.61 688.43	688.61 688.43	
D3	374+53.72	-35.70	688.19	688.19		D3	374+53.68	-33.70	688.31	688.31 688.16	
© WB Bent 13 E3	374+66.72 374+76.72	-35.41 -35.19	688.04 687.94	688.04 687.94		© WB Bent 13 E3	374+66.67 374+76.67	-33.41 -33.19	688.16 688.06	688.06	
© WB Bent 14 A4	374+89.71 374+99.71	-34.90 -34.68	687.81 687.73	687.81 687.73		∉ WB Bent 14 A4	374+89.67 374+99.67	-32.90 -32.68	687.93 687.85	687.93 687.85	
∉ WB Bent 15	375+12.71	-34.39	687.63	687.63		€ WB Bent 15	375+12.66	-32.39	687.75	687.75 687.68	
84 © WB Bent 16	375+22.70 375+35.70	-34.17 -33.88	687.56 687.49	687.56 687.49		84 @ WB Bent 16	375+22.66 375+35.66	-32.17 -31.88	687.68 687.61	687.61	
C4 ⊊WBBent17	375+45.70 375+58.70	-33.66 -33.37	687.44 687.39	687.44 687.39		C4 ¢WBBent17	375+45.65 375+58.65	-31.66 -31.37	687.56 687.51	687.56 687.51	
D4	375+68.69	-33.15	687.36	687.36		D4	375+68.65	-31.15	687.48	687.48 687.46	
© WB Bent 18 E4	375+81.69 375+91.69	-32.86 -32.64	687.34 687.33	687.34 687.33		© WB Bent 18 E4	375+81.65 375+91.64	-30.86 -30.64	687.46 687.45	687.45	
© WB Bent 19 A5	376+04.68 376+14.68	-32.35 -32.12	687.33 687.34	687.33 687.34		∉ WB Bent 19 A5	376+04.64 376+14.64	-30.35 -30.13	687.45 687.46	687.45 687.46	
∉ WB Bent 20	376+27.68	-31.84	687.36	687.36		© WB Bent 20 B5	376+27.63	-29.84	687.48	687.48 687.51	
85 € WB Bent 21	376+37.68 376+50.67	-31.61 -31.32	687.39 687.44	687.39 687.44		∉ WB Bent 21	376+37.63 376+50.63	-29.61 -29.33	687.51 687.56	687.56	
C5 € WB Bent 22	376+60.67 376+73.67	-31.10 -30.81	687.50 687.56	687.50 687.56		C5 ⊈WB Bent 22	376+60.63 376+73.62	-29.10 -28.81	687.62 687.68	687.62 687.68	
D5	376+83.66	-30.59	687.61	687.61		© WB Bent 23	376+83.62	-28.59	687.73	687.73 687.80	
€ WB Bent 23 E5	376+96.66 377+06.66	-30.30 -30.08	687.68 687.73	687.68 687.73		E5	376+96.62 377+06.61	-28.30 -28.08	687.80 687.85	687.85 687.92	
© WB Bent 24 A6	377+19.08 377+29.08	-30.00 -30.00	687.80 687.85	687.80 687.85		∉ WB Bent 24 A6	377+19.08 377+29.08	-28.00 -28.00	687.92 687.97	687.97	
∉ WB Bent 25	377+42.08	-30.00	687.91	687.91		© WB Bent 25 B6	377+42.08	-28.00 -28.00	688.03 688.08	688.03 688.08	
B6 @ WB Bent 26	377+52.08 377+65.08	-30.00 -30.00	687.96 688.03	687.96 688.03		© WB Bent 26	377+52.08 377+65.08	-28.00	688.15	688.15 688.20	
C6 ⊊WBBent27	377+75.08 377+88.08	-30.00 -30.00	688.08 688.15	688.08 688.15		C6 © WB Bent 27	377+75.08 377+88.08	-28.00 -28.00	688.20 688.27	688.27	
 € WB Bent 28	377+98.08 378+11.08	-30.00 -30.00	688.20 688.26	688.20 688.26			377+98.08 378+11.08	-28.00 -28.00	688.32 688.38	688.32 688.38	
E6	378+21.08	-30.00	688.32	688.32		<i>E6</i>	378+21.08	-28.00	688.44	688.44 688.50	
© WB Bent 29 A7	378+34.08 378+44.08	-30.00 -30.00	688.38 688.43	688.38 688.43		© WB Bent 29 A7	378+34.08 378+44.08	-28.00 -28.00	688.50 688.55	688.55	
€ WB Bent 30 B7	378+57.08 378+67.08	-30.00 -30.00	688.50 688.55	688.50 688.55		© WB Bent 30 B7	378+57.08 378+67.08	-28.00 -28.00	688.62 688.67	688.62 688.67	
∉ WB Bent 31	378+80.08	-30.00	688.62	688.62		€ WB Bent 31	378+80.08	-28.00	688.74	688.74 688.79	
C7 € WB Bent 32	378+90.08 379+03.08	-30.00 -30.00	688.67 688.73	688.67 688.73		C7 @ WB Bent 32	378+90.08 379+03.08	-28.00 -28.00	688.79 688.85	688.85	
D7 € WB Bent 33	379+13.08 379+26.08	-30.00 -30.00	688.78 688.85	688.78 688.85		D7 ⊈WB Bent 33	379+13.08 379+26.08	-28.00 -28.00	688.90 688.97	688.90 688.97	
E 7	379+36.08	-30.00	688.90	688.90		E 7	379+36.08	-28.00	689.02	689.02 689.09	
© WB Bent 34 A8	379+49.08 379+59.08	-30.00 -30.00	688.97 689.02	688.97 689.02		© WB Bent 34 A8	379+49.08 379+59.08	-28.00 -28.00	689.09 689.14	689.14	
© WB Bent 35 B8	379+72.08 379+82.08	-30.00 -30.00	689.09 689.14	689.09 689.14		ØWB Bent 35 B8	379+72.08 379+82.08	-28.00 -28.00	689.21 689.26	689.21 689.26	
∉ WB Bent 36	379+95.08	-30.00	689.20	689.20		€ WB Bent 36	379+95.08	-28.00	689.32	689.32 689.37	
C8 € WB Bent 37	380+05.08 380+18.08	-30.00 -30.00	689.25 689.32	689.25 689.32		C8 ⊈WB Bent 37	380+05.08 380+18.08	-28.00 -28.00	689.37 689.44	689.44	
E. End of Deck	380+18.58	-30.00	689.32	689.32		E. End of Deck	380+18.58	-28.00	689.44	689.44	J
TOP OF SLAB ELEVATIONS 1 WB					COUNTY TO	DTAL SHEET EETS NO.					
DEPAR	STATE OF I TMENT OF TF		ATION		S	RUCTURE NO. 016–D010		351	2010-081-F		.045 385
					S	HEET NO. 7 OF 47 SHEETS			ILLIN	DIS FED. AID PROJECT	

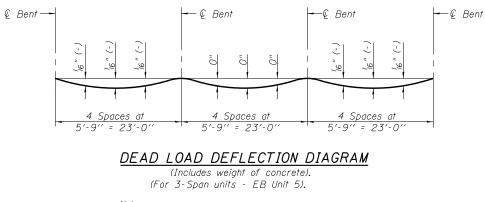
					T
LOCHNER	USER NAME =	DESIGNED - RH	REVISED		TOP OF SLAB ELEVA
H. W. LOCHNER, INC.	FILE NAME = Ø16D010-60L72-007-EL.dgn	CHECKED - LJB	REVISED	STATE OF ILLINOIS	
225 WEST WASHINGTON STREET 12 TH FLOOR	PLOT SCALE =	DRAWN - EF	REVISED	DEPARTMENT OF TRANSPORTATION	STRUCTURE NO. (
CHICAGO, ILLINOIS 60606	PLOT DATE =	CHECKED - RH	REVISED		SHEET NO. 7 OF 4

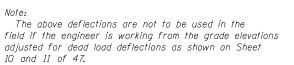
	<u>""</u>	<u>8 PG</u>					SOUTH
Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection		Location	Station
W.End of De ∉WBBent	1 371+90.19	-14.00 -14.00	693.74 693.73	693.74 693.73	W.	End of Deck @WB Bent 1	371+89. 371+90.
€ WB Bent	A1 372+00.19 2 372+13.19	-14.00	693.56 693.33	693.56 693.33		A1 & WB Bent 2	372+00. 372+13.
_	B1 372+23.19	-14.00	693.13	693.13		- B1	372+23.
€ WB Bent	⁶ 3 372+36.19 C1 372+46.19	-14.00	692.87 692.67	692.87 692.67		€ WB Bent 3 C1	372+36. 372+46.
€ WB Bent	4 372+59.19 A2 372+69.19	-14.00 -13.80	692.39 692.18	692.39 692.18		€ WB Bent 4 A2	372+59. 372+69.
€ WB Bent	5 372+82.19	-13.51	691.90	691.90		∉ WB Bent 5	372+82.
€ WB Bent	<i>B2</i> 372+92.18 6 373+05.18	-13.28 -13.00	691.69	691.69 691.41		€ WB Bent 6	372+92. 373+05.
€ WB Bent	C2 373+15.18 7 373+28.17	-12.77 -12.48	691.20 690.92	691.20 690.92		C2 ⊊ WB Bent 7	373+15. 373+28.
_	D2 373+38.17	-12.26	690.71	690.71		D2	373+38.
© WB Bent	8 373+51.17 E2 373+61.17	-11.97	690.45 690.25	690.45 690.25		© WB Bent 8 E2	373+51. 373+61.
€ WB Bent	9 373+74.16	-11.46	690.00	690.00		∉ WB Bent 9	373+74.
€ WB Bent		-11.24 -10.95	689.82 689.60	689.82 689.60	Ę	A3 WB Bent 10	373+84. 373+97.
€ WB Bent	<i>B3 374+07.16</i>	-10.73 -10.44	689.43 689.24	689.43 689.24	, in the second s	B3 WB Bent 11	374+07. 374+20.
	C3 374+30.15	-10.22	689.09	689.09		С3	374+30.
€ WB Bent	12 374+43.15 D3 374+53.14	-9.93 -9.71	688.92 688.80	688.92 688.80	Q	WB Bent 12 D3	374+43. 374+53.
€ WB Bent	13 374+66.14	-9.42	688.65	688.65	Ę	WB Bent 13	374+66.
€ WB Bent	E3 374+76.14 14 374+89.14	-9.20 -8.91	688.54 688.42	688.54 688.42	Q	E3 WB Bent 14	374+76. 374+89.
€ WB Bent	A4 374+99.13 15 375+12.13	-8.69 -8.40	688.33 688.23	688.33 688.23	C.	A4 WB Bent 15	374+99. 375+12.
	B4 375+22.13	-8.18	688.17	688.17		B4	375+22.
© WB Bent	16 375+35.12 C4 375+45.12		688.09 688.04	688.09 688.04	Ľ.	WB Bent 16 C4	375+35. 375+45.
© WB Bent			687.99 687.97	687.99 687.97	Ę	WB Bent 17 D4	375+58. 375+68.
€ WB Bent		-6.86	687.94	687.94	Ę	WB Bent 18	375+81.
€ WB Bent	E4 375+91.11 19 376+04.11	-6.64	687.93 687.93	687.93 687.93	¢	E4 WB Bent 19	375+91. 376+04.
_	A5 376+14.10	-6.13	687.94	687.94		A5	376+14.
€ WB Bent	20 376+27.10 B5 376+37.10	-5.84 -5.62	687.96 687.99	687.96 687.99	ų.	WB Bent 20 B5	376+27. 376+37.
€ WB Bent	21 376+50.10 C5 376+60.09	-5.33	688.04 688.09	688.04 688.09	Ę	WB Bent 21 C5	376+50. 376+60.
∉ WB Bent	22 376+73.09	-4.82	688.16	688.16	Q	WB Bent 22	376+73.
€ WB Bent	D5 376+83.09 23 376+96.08	-4.60	688.21 688.28	688.21 688.28	Q	D5 WB Bent 23	376+83. 376+96.
Ç WB Bent	E5 377+06.08 24 377+19.08	-4.09 -4.00	688.33 688.40	688.33 688.40	ſ	E5 WB Bent 24	377+06. 377+19.
	A6 377+29.08	-4.00	688.45	688.45	2	A6	377+29.
© WB Bent	25 377+42.08 B6 377+52.08	-4.00 -4.00	688.51 688.56	688.51 688.56	Ę	WB Bent 25 B6	377+42. 377+52.
∉ WB Bent	26 377+65.08	-4.00	688.63	688.63	Ę	WB Bent 26	377+65.
∉ WB Bent	C6 377+75.08 27 377+88.08	- 4.00 - 4.00	688.68 688.75	688.68 688.75	Ę	C6 WB Bent 27	377+75. 377+88.
€ WB Bent	D6 377+98.08 28 378+11.08	-4.00 -4.00	688.80 688.86	688.80 688.86	C.	D6 WB Bent 28	377+98. 378+11.
_	E6 378+21.08	-4.00	688.92	688.92		Ε6	378+21.
© WB Bent	29 378+34.08 A7 378+44.08	-4.00	688.98 689.03	688.98 689.03	Ę	WB Bent 29 A7	378+34. 378+44.
€ WB Bent	30 378+57.08	-4.00	689.10	689.10	Ę	WB Bent 30	378+57.
∉ WB Bent		- 4.00 - 4.00	689.15 689.22	689.15 689.22	Ę	B7 WB Bent 31	378+67. 378+80.
€ WB Bent	C7 378+90.08 32 379+03.08	-4.00 -4.00	689.27 689.33	689.27 689.33	Ç	C7 WB Bent 32	378+90. 379+03.
_	D7 379+13.08	-4.00	689.38	689.38		D7	379+13.
€ WB Bent	33 379+26.08 E7 379+36.08	- 4.00 - 4.00	689.45 689.50	689.45 689.50	<u>4</u>	WB Bent 33 E7	379+26. 379+36.
∉ WB Bent	34 379+49.08	-4.00	689.57	689.57	Q	WB Bent 34	379+49. 379+59.
€ WB Bent	35 379+72.08	- 4.00 - 4.00	689.62 689.69	689.62 689.69	Ę	A8 WB Bent 35	379+72.
♀ WB Bent	<i>B8</i> 379+82.08 36 379+95.08	-4.00 -4.00	689.74 689.80	689.74 689.80	ſ.	B8 WB Bent 36	379+82. 379+95.
	<i>C8 380+05.08</i>	-4.00	689.85	689.85		C8	380+05.
€ WB Bent E. End of De		- 4.00 - 4.00	689.92 689.92	689.92 689.92		WB Bent 37 End of Deck	380+18. 380+18.
		1	· ·	I			
	USER NAME =	DECT	GNED - PU	DEVICED		Т	
	USER NAME = FILE NAME = Ø16DØ10-60L72-008 PLOT SCALE =			REVISED REVISED REVISED		_	STATE (RTMENT OI

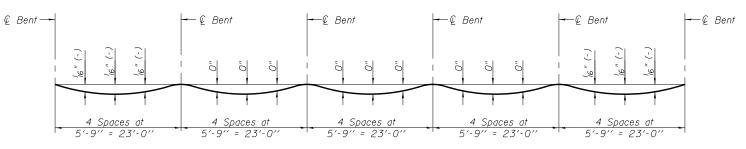
<u>°G</u>		SOUTH CURB LINE							SOUTH EDGE OF DECK					
Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection		Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection		Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
14.00 14.00	693.74 693.73	693.74 693.73	W	. End of Deck ∉WB Bent 1	371+89.69 371+90.19	-12.00 -12.00	693.78 693.77	693.78 693.77		W. End of Deck © WB Bent 1	371+89.69 371+90.19	-11.42 -11.42	694.28 694.27	694.28 694.27
14.00 14.00	693.56 693.33	693.56 693.33		A1 & WB Bent 2	372+00.19 372+13.19	-12.00 -12.00	693.60 693.37	693.60 693.37		A1 & WB Bent 2	372+00.19 372+13.19	-11.42 -11.42	694.10 693.87	694.10 693.87
14.00	693.13	693.13			372+23.19	-12.00	693.17	693.17		B1	372+23.19	-11.42	693.67	693.67
14.00 14.00	692.87 692.67	692.87 692.67		€ WB Bent 3 C1	372+36.19 372+46.19	-12.00 -12.00	692.91 692.71	692.91 692.71		€ WB Bent 3 C1	372+36.19 372+46.19	-11.42 -11.42	693.41 693.21	693.41 693.21
14.00	692.39	692.39		€ WB Bent 4	372+59.19	-12.00	692.43	692.43		∉ WB Bent 4	372+59.19	-11.42	692.93	692.93
3.80 3.51	692.18 691.90	692.18 691.90		A2 © WB Bent 5	372+69.14 372+82.14	-11.80 -11.51	692.22 691.94	692.22 691.94		A2 @ WB Bent 5	372+69.13 372+82.13	-11.21 -10.92	692.72 692.44	692.72 692.44
3.28 3.00	691.69 691.41	691.69 691.41		B2 © WB Bent 6	372+92.14 373+05.14	-11.29 -11.00	691.73 691.45	691.73 691.45		B2 ♀ WB Bent 6	372+92.13 373+05.12	-10.70 -10.41	692.23 691.95	692.23 691.95
2.77	691.20	691.20		C2	373+15.13	-10.77	691.24	691.24		C2	373+15.12	-10.19	691.74	691.74
2.48 2.26	690.92 690.71	690.92 690.71		© WB Bent 7 D2	373+28.13 373+38.13	-10.49 -10.26	690.96 690.75	690.96 690.75		& WB Bent 7 D2	373+28.12 373+38.11	-9.90 -9.68	691.46 691.25	691.46 691.25
1.97	690.45	690.45		© WB Bent 8	373+51.12	-9.97	690.49	690.49		∉ WB Bent 8	373+51.11 373+61.11	-9.39	690.99	690.99
1.75 1.46	690.25 690.00	690.25 690.00		E2 © WB Bent 9	373+61.12 373+74.12	-9.75 -9.46	690.29 690.04	690.29 690.04		E2 @ WB Bent 9	373+74.11	-9.17 -8.88	690.79 690.54	690.79 690.54
1.24 0.95	689.82 689.60	689.82 689.60		A3 © WB Bent 10	373+84.12 373+97.11	-9.24 -8.95	689.86 689.64	689.86 689.64		A3 © WB Bent 10	373+84.10 373+97.10	-8.66 -8.37	690.36 690.14	690.36 690.14
0.73	689.43	689.43		- B3	374+07.11	-8.73	689.47	689.47		В3	374+07.10	-8.15	689.97	689.97
0.44 0.22	689.24 689.09	689.24 689.09		€ WB Bent 11 C3	374+20.11 374+30.11	-8.44 -8.22	689.28 689.13	689.28 689.13		© WB Bent 11 C3	374+20.09 374+30.09	-7.86 -7.64	689.78 689.63	689.78 689.63
9.93 9.71	688.92 688.80	688.92 688.80		€ WB Bent 12 D3	374+43.10 374+53.10	-7.93 -7.71	688.96 688.84	688.96 688.84		⊈ WB Bent 12 D3	374+43.09 374+53.09	-7.35 -7.13	689.46 689.34	689.46 689.34
9.42	688.65	688.65		∉ WB Bent 13	374+66.10	-7.42	688.69	688.69		€ WB Bent 13	374+66.08	-6.84	689.19	689.19
9.20 8.91	688.54 688.42	688.54 688.42		E3 ¢WBBent14	374+76.09 374+89.09	-7.20 -6.91	688.58 688.46	688.58 688.46		E3 ÇWB Bent 14	374+76.08 374+89.08	-6.61 -6.33	689.08 688.96	689.08 688.96
3.69	688.33	688.33			374+99.09	-6.69	688.37	688.37			374+99.08	-6.10	688.87	688.87
.40 .18	688.23 688.17	688.23 688.17		© WB Bent 15 B4	375+12.09 375+22.08	-6.40 -6.18	688.27 688.21	688.27 688.21		© WB Bent 15 B4	375+12.07 375+22.07	-5.81 -5.59	688.77 688.71	688.77 688.71
.89 .66	688.09 688.04	688.09 688.04		€ WB Bent 16 C4	375+35.08 375+45.08	-5.89 -5.66	688.13 688.08	688.13 688.08		€ WB Bent 16 C4	375+35.07 375+45.06	-5.30 -5.08	688.63 688.58	688.63 688.58
.38	687.99	687.99		∉ WB Bent 17	375+58.07	-5.38	688.03	688.03		© WB Bent 17	375+58.06	-4.79	688.53	688.53
.15 .86	687.97 687.94	687.97 687.94		D4 © WB Bent 18	375+68.07 375+81.07	-5.15 -4.86	688.01 687.98	688.01 687.98		D4 © WB Bent 18	375+68.06 375+81.06	-4.57 -4.28	688.51 688.48	688.51 688.48
6.64	687.93	687.93		E4	375+91.07 376+04.06	-4.64	687.97	687.97		E4	375+91.05 376+04.05	-4.06	688.47	688.47 688.47
.35 .13	687.93 687.94	687.93 687.94		© WB Bent 19 A5	376+14.06	-4.35 -4.13	687.97 687.98	687.97 687.98		© WB Bent 19 A5	376+14.05	-3.77 -3.55	688.47 688.48	688.48
5.84 5.62	687.96 687.99	687.96 687.99		© WB Bent 20 B5	376+27.06 376+37.05	-3.84 -3.62	688.00 688.03	688.00 688.03		© WB Bent 20 B5	376+27.04 376+37.04	-3.26 -3.04	688.50 688.53	688.50 688.53
.33	688.04	688.04		∉ WB Bent 21	376+50.05	-3.33	688.08	688.08		⊈ WB Bent 21	376+50.04	-2.75	688.58	688.58
5.11 1.82	688.09 688.16	688.09 688.16		C5 ⊈WB Bent 22	376+60.05 376+73.05	-3.11 -2.82	688.13 688.20	688.13 688.20		C5 ⊈WB Bent 22	376+60.04 376+73.03	-2.53 -2.24	688.63 688.70	688.63 688.70
.60 .31	688.21 688.28	688.21 688.28		D5	376+83.04 376+96.04	-2.60	688.25 688.32	688.25		D5 CWR Boot 23	376+83.03 376+96.03	-2.02	688.75 688.82	688.75 688.82
.09	688.33	688.33		© WB Bent 23 E5	377+06.04	-2.31 -2.09	688.37	688.32 688.37		€ WB Bent 23 E5	377+06.02	-1.73 -1.50	688.87	688.87
.00 .00	688.40 688.45	688.40 688.45		€ WB Bent 24 A6	377+19.08 377+29.08	-2.00 -2.00	688.44 688.49	688.44 688.49		© WB Bent 24 A6	377+19.08 377+29.08	-1.42 -1.42	688.94 688.99	688.94 688.99
.00	688.51	688.51		© WB Bent 25	377+42.08	-2.00	688.55	688.55		© WB Bent 25	377+42.08	-1.42	689.05	689.05
.00 .00	688.56 688.63	688.56 688.63		B6 ⊈WB Bent 26	377+52.08 377+65.08	-2.00 -2.00	688.60 688.67	688.60 688.67		B6 @ WB Bent 26	377+52.08 377+65.08	-1.42 -1.42	689.10 689.17	689.10 689.17
.00 .00	688.68 688.75	688.68 688.75		C6 ¢WB Bent 27	377+75.08 377+88.08	-2.00 -2.00	688.72 688.79	688.72 688.79		C6 € WB Bent 27	377+75.08 377+88.08	-1.42 -1.42	689.22 689.29	689.22 689.29
.00	688.80	688.80		<i>D6</i>	377+98.08	-2.00	688.84	688.84		D6	377+98.08	-1.42	689.34	689.34
.00 .00	688.86 688.92	688.86 688.92		© WB Bent 28 E6	378+11.08 378+21.08	-2.00 -2.00	688.90 688.96	688.90 688.96		© WB Bent 28 E6	378+11.08 378+21.08	-1.42 -1.42	689.40 689.46	689.40 689.46
.00 .00	688.98 689.03	688.98 689.03		© WB Bent 29 A7	378+34.08 378+44.08	-2.00 -2.00	689.02 689.07	689.02 689.07		© WB Bent 29 A7	378+34.08 378+44.08	-1.42 -1.42	689.52 689.57	689.52 689.57
.00	689.10	689.10		© WB Bent 30	378+57.08	-2.00	689.14	689.14		∉ WB Bent 30	378+57.08	-1.42	689.64	689.64
.00 .00	689.15 689.22	689.15 689.22		B7 ⊈ WB Bent 31	378+67.08 378+80.08	-2.00 -2.00	689.19 689.26	689.19 689.26		B7 ⊈WB Bent 31	378+67.08 378+80.08	-1.42 -1.42	689.69 689.76	689.69 689.76
.00	689.27	689.27		C7	378+90.08	-2.00	689.31	689.31		C 7	378+90.08	-1.42	689.81	689.81
.00 .00	689.33 689.38	689.33 689.38		€ WB Bent 32 D7	379+03.08 379+13.08	-2.00 -2.00	689.37 689.42	689.37 689.42		€ WB Bent 32 D7	379+03.08 379+13.08	-1.42 -1.42	689.87 689.92	689.87 689.92
.00 .00	689.45 689.50	689.45 689.50		€ WB Bent 33 E7	379+26.08 379+36.08	-2.00 -2.00	689.49 689.54	689.49 689.54		© WB Bent 33 E7	379+26.08 379+36.08	-1.42 -1.42	689.99 690.04	689.99 690.04
.00	689.57	689.57		€ WB Bent 34	379+49.08	-2.00	689.61	689.61		€ WB Bent 34	379+49.08	-1.42	690.11	690.11
.00 .00	689.62 689.69	689.62 689.69		A8 ⊈WB Bent 35	379+59.08 379+72.08	-2.00 -2.00	689.66 689.73	689.66 689.73		A8 © WB Bent 35	379+59.08 379+72.08	-1.42 -1.42	690.16 690.23	690.16 690.23
.00	689.74	689.74		B8	379+82.08	-2.00	689.78	689.78		B8	379+82.08	-1.42	690.28	690.28
1.00 1.00	689.80 689.85	689.80 689.85		© WB Bent 36 C8	379+95.08 380+05.08	-2.00 -2.00	689.84 689.89	689.84 689.89		© WB Bent 36 C8	379+95.08 380+05.08	-1.42 -1.42	690.34 690.39	690.34 690.39
.00 .00	689.92 689.92	689.92 689.92	F	€ WB Bent 37 . End of Deck	380+18.08 380+18.58	-2.00 -2.00	689.96 689.96	689.96 689.96		€ WB Bent 37 E. End of Deck	380+18.08 380+18.58	-1.42 -1.42	690.46 690.46	690.46 690.46
				· LING OF DECK	500.10.00	2.00	000,00	000.00	l	L, LHO VI DECK	500.10.00		1	
DESIG CHECK		REVISED REVISED		_	STATE OF I	LLINOIS				F SLAB ELEVATIONS 2 WB		F.A.P. RTE. 351	SECTION 2010-081-R	COUNTY TOTAL SHEETS COOK 1045
DRAWN	- EF	REVISED		DEPART	MENT OF TR		ATION			RUCTURE NO. 016-D010				CONTRACT NO.
CHECK	ED - RH	REVISED							SI	HEET NO. 8 OF 47 SHEETS			ILLING	DIS FED. AID PROJECT



PLAN DECK UNITS - DRY LAND BRIDGE 1 EASTBOUND







DEAD LOAD DEFLECTION DIAGRAM

(Includes weight of concrete). (For 5-Span units - EB Unit 1 thru Unit 4).

Note: The above deflections are not to be used in the field if the engineer is working from the grade elevations adjusted for dead load deflections as shown on Sheet 10° and 11 of 47.

Ê							
LOCHNER	USER NAME =	DESIGNED - RH	REVISED		TOP OF SLAB ELEVATION PLAN EB	F.A.P. SECTION	COUNTY TOTAL SHEET
H. W. LOCHNER, INC.	FILE NAME = Ø16D010-60L72-009-EL.dgn	CHECKED - LJB	REVISED	STATE OF ILLINOIS		351 2010-081-R	СООК 1045 387
225 WEST WASHINGTON STREET 12 TH FLOOR	PLOT SCALE =	DRAWN - EF	REVISED	DEPARTMENT OF TRANSPORTATION	STRUCTURE NO. 016–D010		CONTRACT NO. 60L72
CHICAGO, ILLINOIS 60606	PLOT DATE =	CHECKED - RH	REVISED		SHEET NO. 9 OF 47 SHEETS	ILLINOIS FED. A	ND PROJECT

<u>NORTH EDGE OF DECK</u>

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
W. End of Deck Q EB Bent 1 AI Q EB Bent 2 BI Q EB Bent 3 C1 Q EB Bent 4 D1 Q EB Bent 5 E1 Q EB Bent 6 A2 Q EB Bent 7 B2 Q EB Bent 8 C2 Q EB Bent 9 D2 Q EB Bent 10 E2 Q EB Bent 12 B3 Q EB Bent 12 B3 Q EB Bent 14 D3 Q EB Bent 15 E3 Q EB Bent 15 E3 Q EB Bent 17 B4 Q EB Bent 19 D4 Q EB Bent 20 E4 Q EB Bent 21 A5 Q EB Bent 23 C5 Q EB Bent 24 E. End of Deck	374 + 95 . 58 3774 + 96 . 08 375 + 06 . 08 375 + 19 . 08 375 + 29 . 08 375 + 52 . 08 375 + 52 . 08 375 + 55 . 08 375 + 58 . 08 375 + 58 . 08 376 + 21 . 08 376 + 21 . 08 376 + 34 . 08 376 + 57 . 08 376 + 57 . 08 376 + 67 . 08 376 + 67 . 08 376 + 67 . 08 377 + 03 . 08 377 + 26 . 08 377 + 26 . 08 377 + 26 . 08 377 + 59 . 08 378 + 20 . 08 378 + 20 . 08 378 + 20 . 08 378 + 51 . 08 379 + 20 . 08 379 + 20 . 08 379 + 20 . 08 379 + 43 . 08 379 + 56 . 08 379 + 79 . 08 379 + 20 . 08 380 + 02 . 08 380 + 25 . 58	$\begin{array}{c} 11.42\\ 11$	688.90 688.92 688.73 688.67 688.67 688.67 688.47 688.47 688.47 688.47 688.47 688.47 688.47 688.47 688.47 688.47 688.47 688.47 688.47 688.47 688.47 688.52 688.56 688.67 688.74 688.74 688.97 688.97 689.02 689.02 689.02 689.226 689.37 689.37 689.44 689.49 689.561 689.561 689.68 689.73 689.61 689.68 689.73 689.97 689.914 689.956 689.61 689.61 689.61 689.61 689.62 689.61 689.61 689.61 689.61 689.61 689.61 689.61 689.61 689.61 689.61 689.61 689.61 689.61 689.61 689.61 689.61 689.61 689.61 689.61 689.62 689.61 689.62 689.61 690.63 690.63 690.55 690.55 690.55 690.55 690.55 690.55 690.55 690.55 680.55	688.90 688.92 688.73 688.67 688.60 688.60 688.56 688.49 688.47 688.47 688.47 688.47 688.56 688.56 688.56 688.56 688.67 688.74 688.79 688.79 688.90 688.97 689.02 689.02 689.02 689.26 689.37 689.26 689.37 689.44 689.56 689.56 689.57 689.61 689.56 689.61 689.69 689.73 689.61 689.68 689.73 689.79 689.68 689.79 689.61 689.68 689.73 689.79 689.68 689.73 689.91 689.90 689.91 689.926 689.61 689.68 689.73 689.61 689.68 689.73 689.61 689.68 689.73 689.61 689.68 689.73 689.61 689.68 689.73 689.61 689.68 689.73 689.61 689.61 689.61 689.62 689.61 689.62 689.61 689.62 689.61 689.61 689.62 689.61 689.62 689.61 689.61 689.62 689.61 689.61 689.62 689.61 689.62 689.61 689.62 689.61 689.62 689.61 689.62 689.61 689.62 689.61 689.62 689.61 689.62 689.61 689.62 689.61 689.62 689.61 689.62 689.61 689.62 689.61 689.62 689.61 689.62 689.61 689.62 689.62 690.31 690.31 690.50 690.51

	NORTH CL	IRB LINE	Ξ			<u>EB</u>	PG		
Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection	Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
W. End of Deck	374+95.58 377+96.08 375+06.08 375+29.08 375+22.08 375+52.08 375+52.08 375+75.08 375+75.08 375+88.08 376+21.08 376+21.08 376+21.08 376+21.08 376+20.08 376+67.08 376+67.08 376+67.08 376+90.08 377+13.08 377+20.08 377+20.08 377+20.08 377+20.08 377+20.08 377+20.08 377+20.08 377+20.08 377+20.08 377+20.08 377+20.08 377+20.08 377+20.08 377+20.08 378+28.08 378+28.08 378+28.08 378+21.08 378+21.08 378+21.08 378+21.08 378+21.08 378+21.08 378+21.08 378+21.08 378+21.08 378+21.08 378+21.08 378+21.08 379+20.08 379+33.08 379+33.08 379+43.08 379+60.08 379+79.08 379+89.08 380+12.08	12.00 12.00	688.40 688.40 688.32 688.12 688.17 688.06 688.01 687.99 687.97 687.97 687.97 687.97 688.02 688.02 688.02 688.02 688.02 688.02 688.02 688.02 688.02 688.02 688.59 688.40 688.47 688.52 688.59 688.52 688.52 688.52 688.52 688.52 688.52 688.52 688.52 688.52 688.52 688.52 688.52 688.52 688.52 688.64 688.71 688.52 688.64 688.71 688.52 688.64 688.94 689.11 689.18 689.23 689.53 689.58 689.	688.40 688.40 688.32 688.23 688.17 688.10 688.06 688.01 687.99 687.97 687.97 687.97 687.97 687.98 688.02 688.02 688.02 688.02 688.02 688.11 688.17 688.24 688.29 688.47 688.52 688.47 688.52 688.59 688.52 688.59 688.52 688.52 688.52 688.52 688.52 688.52 688.52 688.52 688.52 688.52 688.94 688.94 689.06 689.11 689.23 689.29 689.53 689.53 689.58 689.53 689.58 689.53 689.58 689.53 689.58 689.64 689.70 689.70 689.88 689.88 689.93	W. End of Deck Q EB Bent 1 Q EB Bent 2 B1 Q EB Bent 3 C1 Q EB Bent 4 D1 Q EB Bent 5 E1 Q EB Bent 6 A2 Q EB Bent 7 B2 Q EB Bent 10 E2 Q EB Bent 12 B3 Q EB Bent 13 C EB Bent 16 A4 Q EB Bent 18 C4 Q EB Bent 19 D4 Q EB Bent 20 Q EB Bent 21 A5 Q EB Bent 21 A5 Q EB Bent 23	374+95.58 377+96.08 375+06.08 375+29.08 375+29.08 375+52.08 375+52.08 375+75.08 375+75.08 375+88.08 376+21.08 376+21.08 376+21.08 376+20.08 376+20.08 376+67.08 376+67.08 376+67.08 376+20.08 377+20.08 377+20.08 377+20.08 377+20.08 377+20.08 377+20.08 377+20.08 377+20.08 377+20.08 377+20.08 377+20.08 377+20.08 377+20.08 377+20.08 377+20.08 378+28.08 378+28.08 378+28.08 378+21.08 378+21.08 378+21.08 378+21.08 378+74.08 378+74.08 378+74.08 378+74.08 378+74.08 378+74.08 378+74.08 379+10.08 379+20.08 379+20.08 379+43.08 379+60.08 379+79.08 379+79.08 379+79.08 379+79.08 379+79.08 379+79.08 379+79.08 379+79.08 379+79.08 379+79.08 379+79.08 379+79.08 379+79.08 379+79.08 379+79.08 379+79.08 379+79.08 379+79.08 379+79.08 379+20.08 379	14.00 1	688.36 688.36 688.28 688.28 688.19 688.13 688.02 687.97 687.95 687.93 687.93 687.93 687.93 687.93 687.93 687.93 687.93 687.93 687.93 688.02 688.02 688.31 688.31 688.31 688.31 688.43 688.43 688.55 688.43 688.55 688.67 688.72 688.72 688.72 688.72 688.72 688.72 688.72 688.72 688.72 688.72 688.72 688.72 688.90 688.90 688.95 689.02 689.02 689.02 689.37 689.37 689.42 689.54 689.54 689.60 689.77 689.77 689.54 689.77 689.89 777 689.89 89 777 689.89 777 689.89 89 777 689.89 777 689.89 777 689.89 777 689.89 777 689.89 777 689.89 777 689.89 777 689.89 777 689.89 777 689.89 777 689.89 777 689.89 777 689.89 777 689.89 777 689.89 777 689.89 777 689.89 777 689.89 777 689.89 777 777 689.89 777 777 777 777 777 777 777	688.36 688.36 688.28 688.19 688.19 688.02 687.97 687.95 687.93 687.93 687.93 687.94 687.95 687.93 687.93 687.93 688.02 688.02 688.02 688.02 688.31 688.43 688.43 688.43 688.43 688.43 688.43 688.43 688.43 688.43 688.43 688.43 688.43 688.43 688.90 688.72 688.72 688.72 688.90 688.95 689.02 689.02 689.02 689.02 689.19 689.37 689.37 689.42 689.54 689.54 689.60 689.72 689.72 689.72 689.72 689.77 689.72 689.77 689.72 689.77 689.72 689.77 689.72 689.77 689.72 689.77 689.89
© EB Bent 22 B5 © EB Bent 23	379+79.08 379+89.08 380+02.08	12.00 12.00 12.00	689.76 689.81 689.88	689.76 689.81 689.88	© EB Bent 22 B5 © EB Bent 23	379+79.08 379+89.08 380+02.08	14.00 14.00 14.00	689.72 689.77 689.84	689.72 689.77 689.84

LOCHNER	USER NAME =	DESIGNED - RH	REVISED		TOP OF SLAB ELEVATIONS 1 EB	F.A.P. SECTION	COUNTY TOTAL SHEET
H. W. LOCHNER, INC.	FILE NAME = 016D010-60L72-010-EL.dgn	CHECKED - LJB	REVISED	STATE OF ILLINOIS	STRUCTURE NO. 016–D010	351 2010-081-R	СООК 1045 388
225 WEST WASHINGTON STREET 12 TH FLOOR	PLOT SCALE =	DRAWN - EF	REVISED	DEPARTMENT OF TRANSPORTATION			CONTRACT NO. 60L72
CHICAGO, ILLINOIS 60606	PLOT DATE =	CHECKED - RH	REVISED		SHEET NO. 10 OF 47 SHEETS	ILLINOIS FED.	AID PROJECT

<u>EB PG</u>

<u>SOUTH SLOPE BREAK LINE</u>

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
W. End of Deck Q EB Bent 1 Q EB Bent 2 BI Q EB Bent 3 Q EB Bent 4 DI Q EB Bent 5 Q EB Bent 6 A2 Q EB Bent 7 B2 Q EB Bent 8 C2 Q EB Bent 10 Q EB Bent 10 Q EB Bent 12 Q EB Bent 12 Q EB Bent 13 Q EB Bent 15 Q EB Bent 16 A4 Q EB Bent 16 A4 Q EB Bent 17 Q EB Bent 16 A4 Q EB Bent 18 Q EB Bent 20 Q EB Bent 21 Q EB Bent 22 Q EB Bent 23 Q EB Bent 24 Q EB Be	374 + 95.58 374 + 96.08 375 + 06.08 375 + 19.08 375 + 29.08 375 + 52.08 375 + 52.08 375 + 52.08 375 + 598.08 375 + 75.08 376 + 21.08 376 + 21.08 376 + 21.08 376 + 20.08 376 + 67.08 376 + 69.08 377 + 03.08 377 + 03.08 377 + 26.08 377 + 20.08 377 + 20.08 378 + 20.08 378 + 20.08 378 + 20.08 378 + 20.08 378 + 20.08 378 + 20.08 379	38.00 3	687.88 687.80 687.71 687.65 687.54 687.47 687.47 687.47 687.47 687.47 687.47 687.59 687.54 687.59 687.54 687.59 687.52 687.54 687.59 687.54 687.59 687.52 687.62 687.83 688.24 688.19 688.35 688.35 688.47 688.54 688.66 688.77 688.67 688.67 688.54 688.	687.88 687.80 687.71 687.54 687.54 687.49 687.47 687.45 687.45 687.45 687.47 687.50 687.59 687.59 687.59 687.65 687.77 687.83 687.88 687.95 688.00 688.12 688.12 688.12 688.12 688.47 688.54 688.54 688.54 688.54 688.54 688.59 688.54 688.54 688.59 688.54 688.59 688.54 688.59 688.77 688.82 688.66 688.77 688.82 688.66 688.77 688.82 688.82 688.94 689.01 689.18 689.24 689.29 689.29 689.24 689.49 689.49

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection	Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
W. End of Deck	374+95.58	40.00	687.76	687.76	W. End of Deck	374+95.58	40.58	688.26	688.26
W. LING OF DECK									
© EB Bent 1	374+96.08	40.00	687.76	687.76	€ EB Bent 1	374+96.08	40.58	688.26	688.26
A1	375+06.08	40.00	687.68	687.68	A1	375+06.08	40.58	688.18	688.18
© EB Bent 2	375+19.08	40.00	687.59	687.59	© EB Bent 2	375+19.08	40.58	688.09	688.09
B1	375+29.08	40.00	687.53	687.53	B1	375+29.08	40.58	688.03	688.03
© EB Bent 3	375+42.08	40.00	687.46	687.46	© EB Bent 3	375+42.08	40.58	687.58	687.58
C 1	375+52.08	40.00	687.42	687.42	C 1	375+52.08	40.58	687.54	687.54
€ EB Bent 4	375+65.08	40.00	687.37	687.37	∉ EB Bent 4	375+65.08	40.58	687.50	687.50
D1	375+75.08	40.00	687.35	687.35	D1	375+75.08	40.58	687.48	687.48
© EB Bent 5	375+88.08	40.00	687.33	687.33	ÇEB Bent 5	375+88.08	40.58	687.83	687.83
E1	375+98.08	40.00	687.33	687.33	E 1	375+98.08	40.58	687.83	687.83
© EB Bent 6	376+11.08	40.00	687.34	687.34	¢ EB Bent 6	376+11.08	40.58	687.84	687.84
£ 20 0000 A2	376+21.08	40.00	687.35	687.35	£ 20 00,17 0 A2	376+21.08	40.58	687.85	687.85
€ EB Bent 7	376+34.08	40.00	687.38	687.38	⊈ EB Bent 7	376+34.08	40.58	687.88	687.88
¥ LD Denn 7 B2	376+44.08	40.00	687.42	687.42	¥ LB Benn n B2	376+44.08	40.58	687.92	687.92
€ EB Bent 8	376+57.08	40.00	687.47	687.47	€ EB Bent 8	376+57.08	40.58	687.97	687.97
C2	376+67.08	40.00	687.53	687.53	C2	376+67.08	40.58	688.03	688.03
© EB Bent 9	376+80.08	40.00	687.60	687.60	© EB Bent 9	376+80.08	40.58	688.10	688.10
D2	376+90.08	40.00	687.65	687.65	D2	376+90.08	40.58	688.15	688.15
€ EB Bent 10	377+03.08	40.00	687.71	687.71	© EB Bent 10	377+03.08	40.58	688.21	688.21
E2	377+13.08	40.00	687.76	687.76	E2	377+13.08	40.58	688.26	688.26
© EB Bent 11	377+26.08	40.00	687.83	687.83	© EB Bent 11	377+26.08	40.58	688.33	688.33
A3	377+36.08	40.00	687.88	687.88	A3	377+36.08	40.58	688.38	688.38
© EB Bent 12	377+49.08	40.00	687.95	687.95	© EB Bent 12	377+49.08	40.58	688.45	688.45
B3	377+59.08	40.00	688.00	688.00	B3	377+59.08	40.58	688.50	688.50
© EB Bent 13	377+72.08	40.00	688.07	688.07	∉ EB Bent 13	377+72.08	40.58	688.57	688.57
С3	377+82.08	40.00	688.12	688.12	С3	377+82.08	40.58	688.62	688.62
@ EB Bent 14	377+95.08	40.00	688.18	688.18	¢ EB Bent 14	377+95.08	40.58	688.68	688.68
 D3	378+05.08	40.00	688.23	688.23	D3	378+05.08	40.58	688.73	688.73
¢ EB Bent 15	378+18.08	40.00	688.30	688.30	¢ EB Bent 15	378+18.08	40.58	688.80	688.80
E3	378+28.08	40.00	688.35	688.35	E3	378+28.08	40.58	688.85	688.85
© EB Bent 16	378+41.08	40.00	688.42	688.42	ÇEB Bent 16	378+41.08	40.58	688.92	688.92
A4	378+51.08	40.00	688.47	688.47	A4	378+51.08	40.58	688.97	688.97
⊈ EB Bent 17	378+64.08	40.00	688.54	688.54	⊈ EB Bent 17	378+64.08	40.58	689.04	689.04
<i>Q EB Benn 11</i> <i>B4</i>	378+74.08	40.00	688.59	688.59	£ 2.5 50,17 17 B4	378+74.08	40.58	689.09	689.09
¢ EB Bent 18	378+87.08	40.00	688.65	688.65	¢ EB Bent 18	378+87.08	40.58	689.15	689.15
¢ LD Denn 10 C4	378+97.08	40.00	688.70	688.70	¢ LD Denn 10 C4	378+97.08	40.58	689.20	689.20
© EB Bent 19		40.00	688.77	688.77	€ EB Bent 19		40.58	689.27	689.27
у св вели 19 D4	379+10.08 379+20.08		688.82		VED Denn 19 D4	379+10.08			
		40.00		688.82		379+20.08	40.58	689.32	689.32
© EB Bent 20	379+33.08	40.00	688.89	688.89	€ EB Bent 20	379+33.08	40.58	689.39	689.39
	379+43.08	40.00	688.94	688.94		379+43.08	40.58	689.44	689.44
© EB Bent 21	379+56.08	40.00	689.00	689.00	© EB Bent 21	379+56.08	40.58	689.50	689.50
A5	379+66.08	40.00	689.06	689.06	A5	379+66.08	40.58	689.56	689.56
© EB Bent 22	379+79.08	40.00	689.12	689.12	© EB Bent 22	379+79.08	40.58	689.62	689.62
B5	379+89.08	40.00	689.17	689.17	B5	379+89.08	40.58	689.67	689.67
© EB Bent 23	380+02.08	40.00	689.24	689.24	© EB Bent 23	380+02.08	40.58	689.74	689.74
C5	380+12.08	40.00	689.29	689.29	C5	380+12.08	40.58	689.79	689.79
€ EB Bent 24	380+25.08	40.00	689.36	689.36	€ EB Bent 24	380+25.08	40.58	689.86	689.86
E. End of Deck	380+25.58	40.00	689.37	689.37	E. End of Deck	380+25.58	40.58	689.87	689.87
									1

	USER NAME =	DESIGNED - RH	REVISED		TOP OF SLAB ELEVATIONS 2 EB	F.A.P.	SECTION	COUNTY	TOTAL SHEET
H. W. LOCHNER, INC.	FILE NAME = 016D010-60L72-011-EL.dgn	CHECKED - LJB	REVISED	STATE OF ILLINOIS	STRUCTURE NO. 016-D010	351	2010-081-R	СООК	1045 389
225 WEST WASHINGTON STREET 12 TH FLOOR	PLOT SCALE =	DRAWN - EF CHECKED - RH	REVISED	DEPARTMENT OF TRANSPORTATION	SHEET NO. 11 OF 47 SHEETS				CT NO. 60L72
CHICAGO, ILLINOIS 60606	TEOT BATE -	CHECKED INIT	REVISED				ILLINUIS FED. A	AID PROJECT	

SOUTH CURB LINE

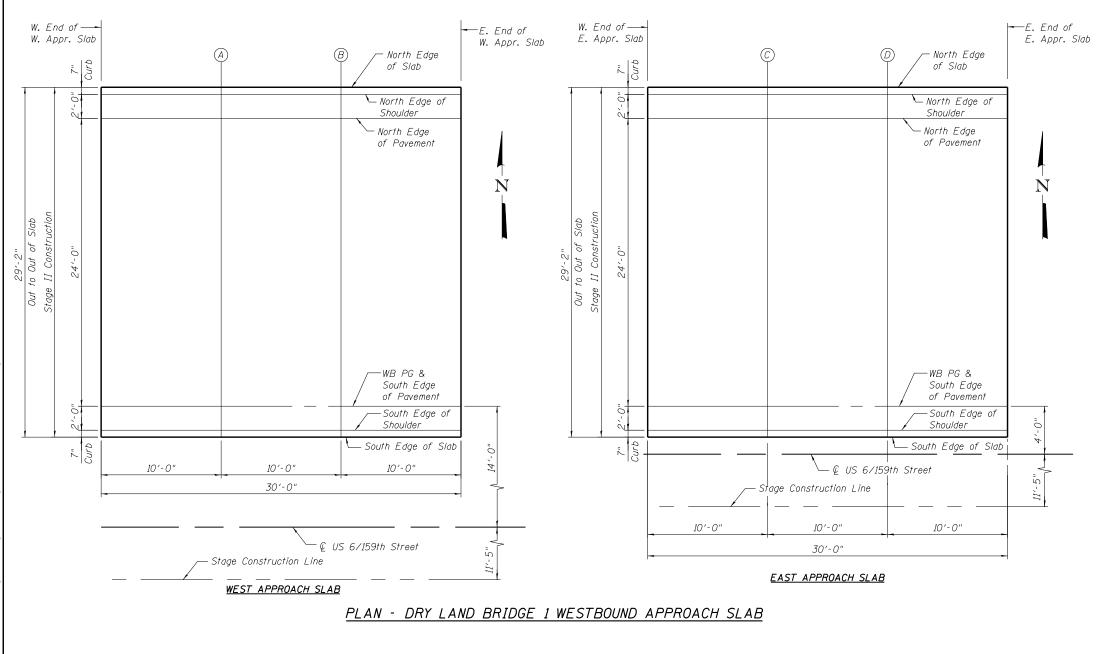
SOUTH	EDGE	0F	DECK

NORTH EDGE OF SLAB

Location	Station	Offset	Theoretical Grade Elevations
W. End of W. Appr. Slab	371+59.69	-40.58	694.10
A	371+69.69	-40.58	693.96
B	371+79.69	-40.58	693.80
E. End of W. Appr. Slab	371+89.69	-40.58	693.64
W. End of E. Appr. Slab	380+18.58	-30.58	689.82
C	380+28.58	-30.58	689.88
D	380+38.58	-30.58	689.93
E. End of E. Appr. Slab	380+48.58	-30.58	689.97

NORTH EDGE OF SHOULDER

Location	Station	Offset	Theoretical Grade Elevations
W. End of W. Appr. Slab	371+59.69	- 40 . 00	693.60
A	371+69.69	- 40 . 00	693.46
B	371+79.69	- 40 . 00	693.30
E. End of W. Appr. Slab	371+89.69	- 40 . 00	693.14
W. End of E. Appr. Slab	380+18.58	- 30 . 00	689.32
C	380+28.58	- 30 . 00	689.38
D	380+38.58	- 30 . 00	689.43
E. End of E. Appr. Slab	380+48.58	- 30 . 00	689.43



LOCHNER	USER NAME =	DESIGNED - RH	REVISED		TOP OF APPROACH SLAB ELEVATIONS 1	F.A.P. RTE.	SECTION	COUNTY TOTAL SHEET SHEETS NO.
H. W. LOCHNER, INC.	FILE NAME = Ø16DØ10-60L72-012-SE.dgn	CHECKED - LJB	REVISED	STATE OF ILLINOIS	STRUCTURE NO. 016–D010	351	2010-081-R	СООК 1045 390
225 WEST WASHINGTON STREET 12 TH FLOOR	PLOT SCALE =	DRAWN - EF	REVISED	DEPARTMENT OF TRANSPORTATION				CONTRACT NO. 60L72
CHICAGO, ILLINOIS 60606	PLUI DATE =	CHECKED - RH	REVISED		SHEET NO. 12 OF 47 SHEETS		ILLINOIS FED.	AID PROJECT

NORTH EDGE OF PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations
W. End of W. Appr. Slab A B	371+59.69 371+69.69 371+79.69	-38.00 -38.00 -38.00	693.72 693.58 693.42
E. End of W. Appr. Slab	371+89.69	-38.00	693.26
W. End of E. Appr. Slab C D	380+18.58 380+28.58 380+38.58	-28.00 -28.00 -28.00	689.44 689.50 689.55
E. End of E. Appr. Slab	380+48.58	-28.00	689.59

WB PG & SOUTH EDGE OF PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations
W. End of W. Appr. Slab	371+59.69	-14.00	694.20
A	371+69.69	-14.00	694.06
R	371+79.69	-14.00	693.90
E. End of W. Appr. Slab	371+89.69	-14.00	693.74
W. End of E. Appr. Slab	380+18.58	-4.00	689.92
C	380+28.58	-4.00	689.98
D	380+38.58	-4.00	690.03
E. End of E. Appr. Slab	380+48.58	-4.00	690.07

SOUTH EDGE OF SHOULDER

Location	Station	Offset	Theoretical Grade Elevations
W. End of W. Appr. Slab	371+59.69	-12.00	694.24
A	371+69.69	-12.00	694.10
B	371+79.69	-12.00	693.94
E. End of W. Appr. Slab	371+89.69	-12.00	693.78
W. End of E. Appr. Slab	380+18.58	-2.00	689.96
C	380+28.58	-2.00	690.02
E. End of E. Appr. Slab	380+38.58	-2.00	690.07
	380+48.58	-2.00	690.11

SOUTH EDGE OF SLAB

Location	Station	Offset	Theoretical Grade Elevations
W. End of W. Appr. Slab	371+59.69	-11.42	694.74
A	371+69.69	-11.42	694.60
B	371+79.69	-11.42	694.44
E. End of W. Appr. Slab	371+89.69	-11.42	694.28
W. End of E. Appr. Slab	380+18.58	-1.42	690.46
C	380+28.58	-1.42	690.52
D	380+38.58	-1.42	690.57
E. End of E. Appr. Slab	380+48.58	-1.42	690.61

NORTH EL	DGE OF SLAB		NORTH EDG	E OF SHOULD	<u>DER</u>	1
Location	Station Offse	Theoretical Grade Elevations	Location	Station	Offset	Theoretica Grade Elevations
W. End of W. Appr. Slab A B E. End of W. Appr. Slab W. End of E. Appr. Slab C D E. End of E. Appr. Slab	374+65.58 11.4 374+75.58 11.4 374+85.58 11.4 374+95.58 11.4 380+25.58 11.4 380+35.58 11.4 380+45.58 11.4 380+55.58 11.4	42 689.09 42 688.99 42 688.90 42 690.51 42 690.55 42 690.59	W. End of W. Appr. Slab A B E. End of W. Appr. Slab W. End of E. Appr. Slab C D E. End of E. Appr. Slab	374 + 65 . 58 374 + 75 . 58 374 + 85 . 58 380 + 25 . 58 380 + 35 . 58 380 + 45 . 58 380 + 55 . 58	12.00 12.00 12.00 12.00 12.00 12.00 12.00 12.00	688.69 688.59 688.49 688.40 690.01 690.05 690.09 690.13
	€ US 6/159th	Street		€ US 6/159†	h Street	
End of Appr. Slab	B North	h Edge W. A	W. End of E. Appr. Slab \tilde{k}	ruction Line	0 _	North Edge of Slab

Ν

0

à

24'-0"

2,-0"

7" Curb

10′-0″

29'-2" Out to Out of Slab Stage I Construction

PLAN - DRY LAND BRIDGE 1 EASTBOUND APPROACH SLAB

└─North Edge of Shoulder

-South Edge of Pavement

-South Edge of Shoulder

— South Edge of Slab

10'-0"

└─EB PG & North Edge of Pavement



2,0"

24'-0"

2,0"

7" Curb

10'-0"

10′-0″

30′-0″

<u>WEST APPROACH SLAB</u>

29'-2" Out to Out of Slab Stage I Construction

	USER NAME =	DESIGNED - RH	REVISED		TOP OF APPROACH SLAB FLEVATIONS 2	F.A.P. RTF	SECTION	COUNTY TOTAL SHEET
HNER, INC.	FILE NAME = Ø16DØ10-60L72-013-SE.dgn	CHECKED - LJB	REVISED	STATE OF ILLINOIS		351	2010-081-R	COOK 1045 391
WASHINGTON STREET	PLOT SCALE =	DRAWN - EF	REVISED	DEPARTMENT OF TRANSPORTATION	STRUCTURE NU. 016-D010			CONTRACT NO. 60L72
ILLINOIS 60606	PLOT DATE =	CHECKED - RH	REVISED		SHEET NO. 13 OF 47 SHEETS		ILLINOIS FED.	. AID PROJECT
	HNER, INC. WASHINGTON STREET OR	INER, INC. FILE NAME Ø 160010-60L72-013-SE.dgn WASHINGTON STREET PLOT SCALE = OR PLOT SCALE =	INER, INC. FILE NAME = 0160010-60L72-013-SE.dgn CHECKED - LJB WASHINGTON STREET PLOT SCALE = DRAWN - EF OR OUT SCALE = DRAWN - EF	INER, INC. WASHINGTON STREET OR FILE NAME = 016D010-60L72-013-SE.dgn CHECKED - LJB REVISED PLOT SCALE = DRAWN - EF REVISED OF CHECKED - LJB REVISED	INER, INC. FILE NAME = Ø16DØ10-6ØL72-013-SE.dgn CHECKED - LJB REVISED INER, INC. PLOT SCALE = DRAWN - EF REVISED	HNER, INC. FILE NAME = 016D010-60L72-013-SE.dgn CHECKED - LJB REVISED INPER, INC. PLOT SCALE = DRAWN - EF REVISED	INER, INC. FILE NAME = Ø160010-60L72-013-SE.dgn CHECKED - LJB REVISED STATE OF ILLINOIS INER, INC. PLOT SCALE = DRAWN - EF REVISED DEPARTMENT OF TRANSPORTATION STATE OF ILLINOIS OR DISCALE = DRAWN - EF REVISED DEPARTMENT OF TRANSPORTATION STATE OF ILLINOIS	HNER, INC. FILE NAME = 0160010-60L72-013-SE.dgn CHECKED - LJB REVISED HNER, INC. PLOT SCALE = DRAWN - EF REVISED DPARTMENT OF TRANSPORTATION STATE OF ILLINOIS STATE OF TRANSPORTATION

10'-0"

30′-0″

EAST APPROACH SLAB

EB PG & NORTH EDGE OF PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations
W. End of W. Appr. Slab A B	374+65.58 374+75.58 374+85.58	14.00 14.00 14.00	688.65 688.55 688.45
E. End of W. Appr. Slab W. End of E. Appr. Slab C	374+95.58 380+25.58 380+35.58 380+45.58	14.00 14.00 14.00 14.00	688.36 689.97 690.01 690.05
E. End of E. Appr. Slab	380+55.58	14.00	690.05

SOUTH EDGE OF PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations
W. End of W. Appr. Slab	374+65.58	38.00	688.17
	374+75.58	38.00	688.07
B	374+85.58	38.00	687.97
E. End of W. Appr. Slab	374+95.58	38.00	687.88
W. End of E. Appr. Slab	380+25.58	38.00	689.49
C	380+35.58	38.00	689.53
D	380+45.58	38.00	689.57
E. End of E. Appr. Slab	380+55.58	38.00	689.61

E. End of E. Appr. Slab

Ν

└─North Edge of Shoulder

-South Edge of Pavement

—South Edge of Shoulder

South Edge of Slab

10'-0"

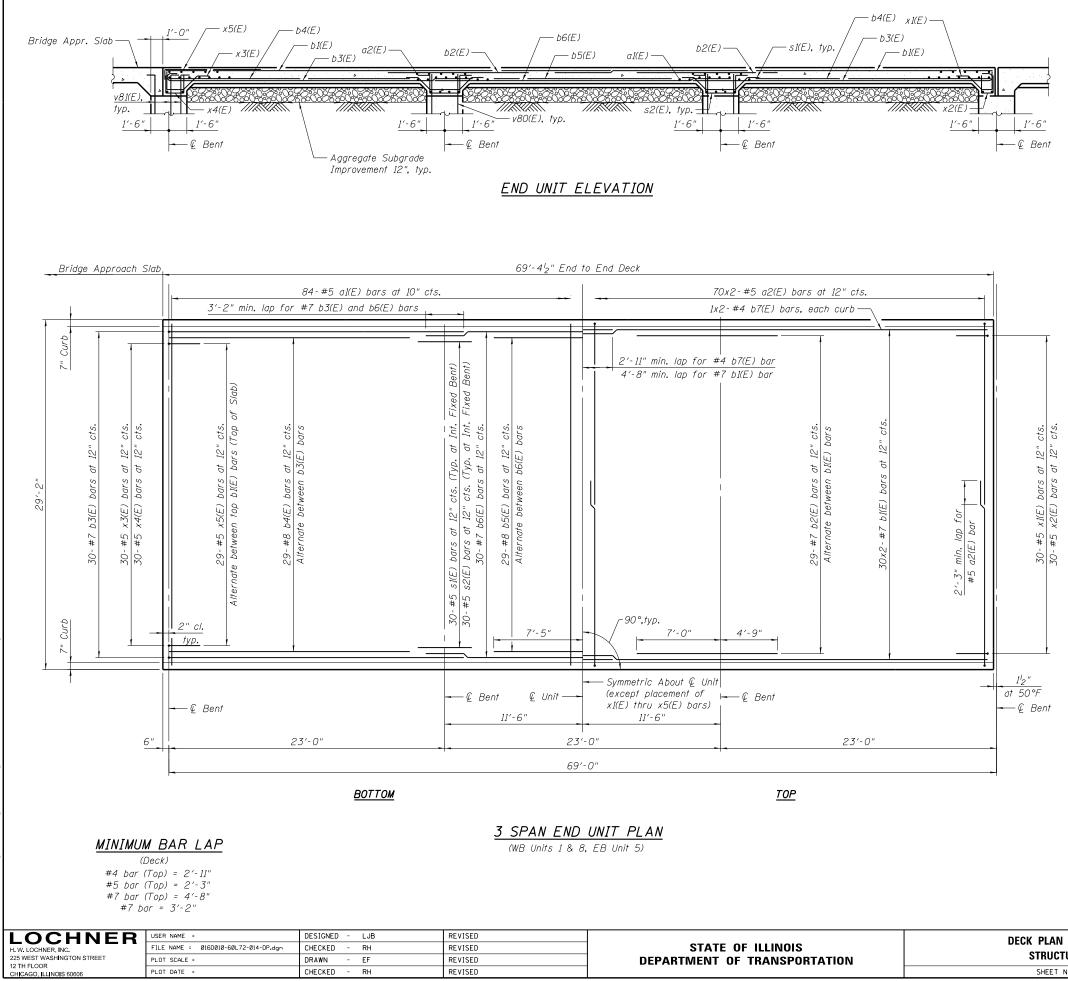
EB PG & North Edge of Pavement

<u>SOUTH EDGE OF SHOULDER</u>

Location	Station	Offset	Theoretical Grade Elevations
W. End of W. Appr. Slab A B E. End of W. Appr. Slab W. End of E. Appr. Slab C D E. End of E. Appr. Slab	374+65.58 374+75.58 374+85.58 374+95.58 380+25.58 380+25.58 380+35.58 380+45.58 380+55.58	40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00	688.05 687.95 687.85 687.76 689.37 689.41 689.45 689.49

SOUTH EDGE OF SLAB

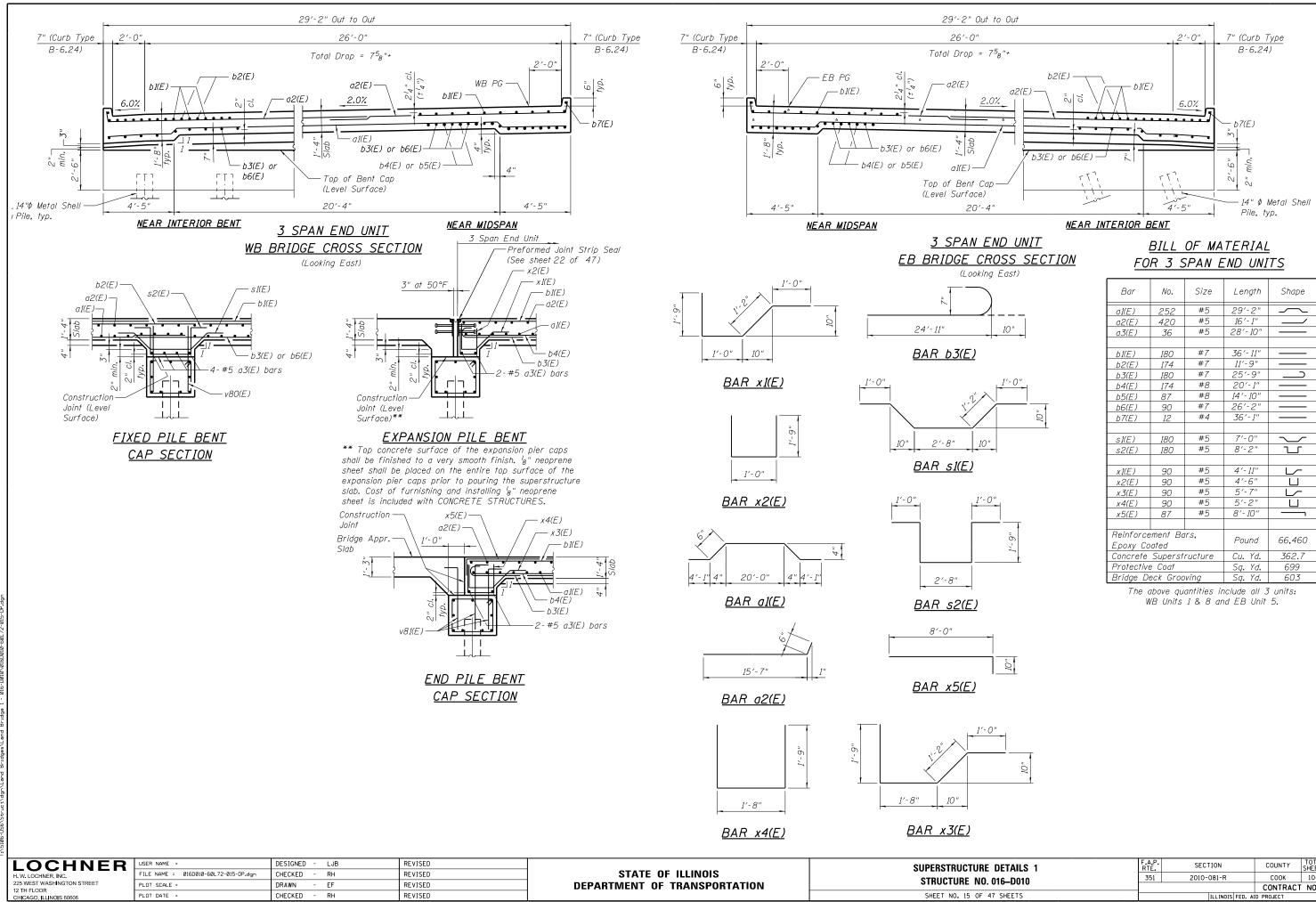
Location	Station	Offset	Theoretical Grade Elevations
W. End of W. Appr. Slab	374+65.58	40.58	688.55
A	374+75.58	40.58	688.45
B	374+85.58	40.58	688.35
E. End of W. Appr. Slab	374+95.58	40.58	688.26
W. End of E. Appr. Slab	380+25.58	40.58	689.87
C	380+35.58	40.58	689.91
D	380+45.58	40.58	689.95
E. End of E. Appr. Slab	380+55.58	40.58	689.99



OCHNER W. LOCHNER, INC.	USER NAME = FILE NAME = 016D010-60L72-014-DP.dgn	DESIGNED - CHECKED -	LJB RH	REVISED REVISED	STATE OF ILLINOIS	DECK PLAN & CROSS SECTION 1 Structure No. 016-d010	F.A.P. RTE. 351	SECTION 2010-081-R	COUNTY TOTAL SH SHEETS N COOK 1045 3	HEET NO. 392
5 WEST WASHINGTON STREET TH FLOOR	PLOT SCALE =	DRAWN -	EF	REVISED	DEPARTMENT OF TRANSPORTATION			-	CONTRACT NO. 60L	L72
ICAGO, ILLINOIS 60606	PLOT DATE =	CHECKED -	RH	REVISED		SHEET NO. 14 OF 47 SHEETS		ILLINOIS FED. AJ	NID PROJECT	

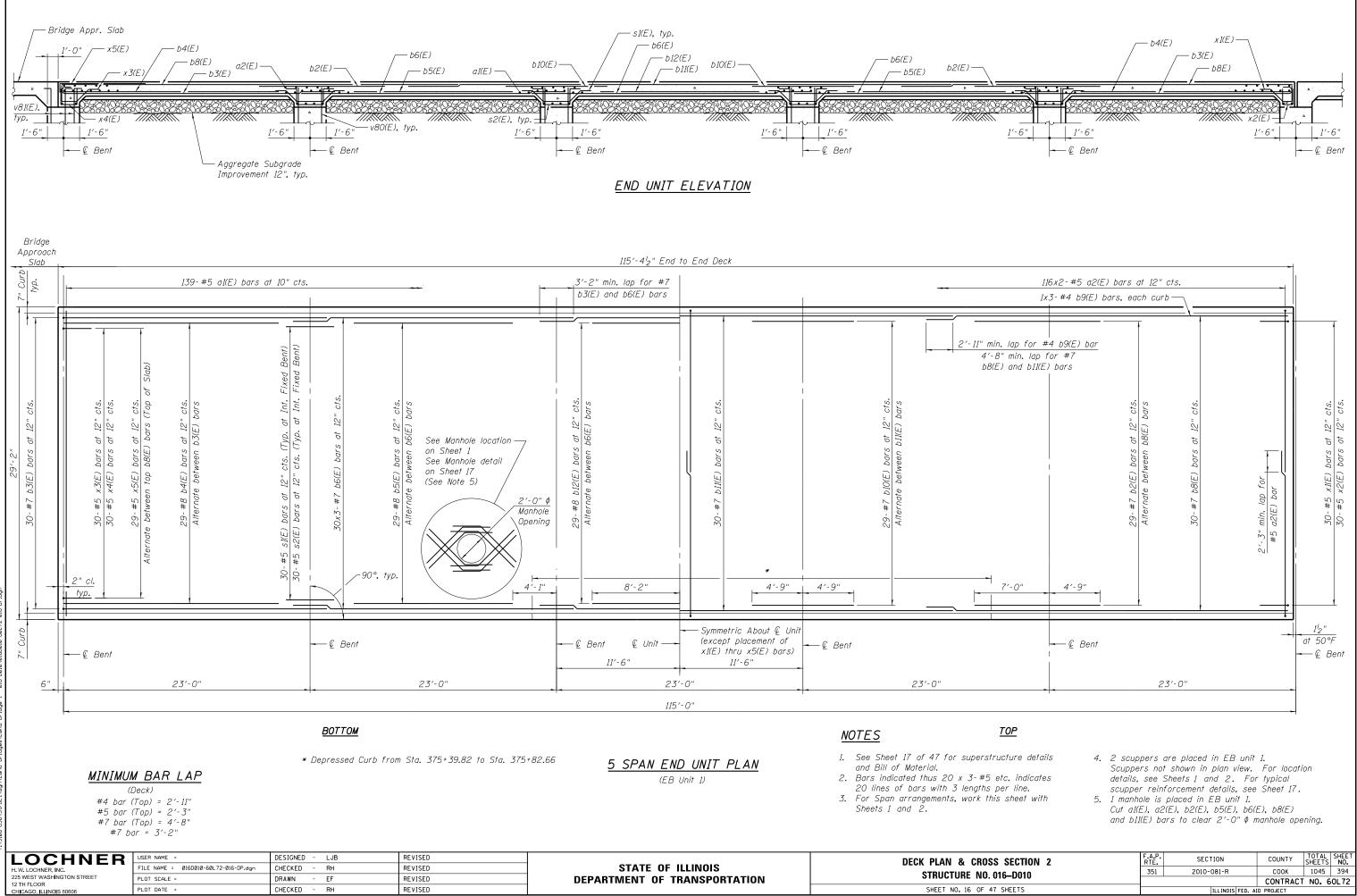
NOTES

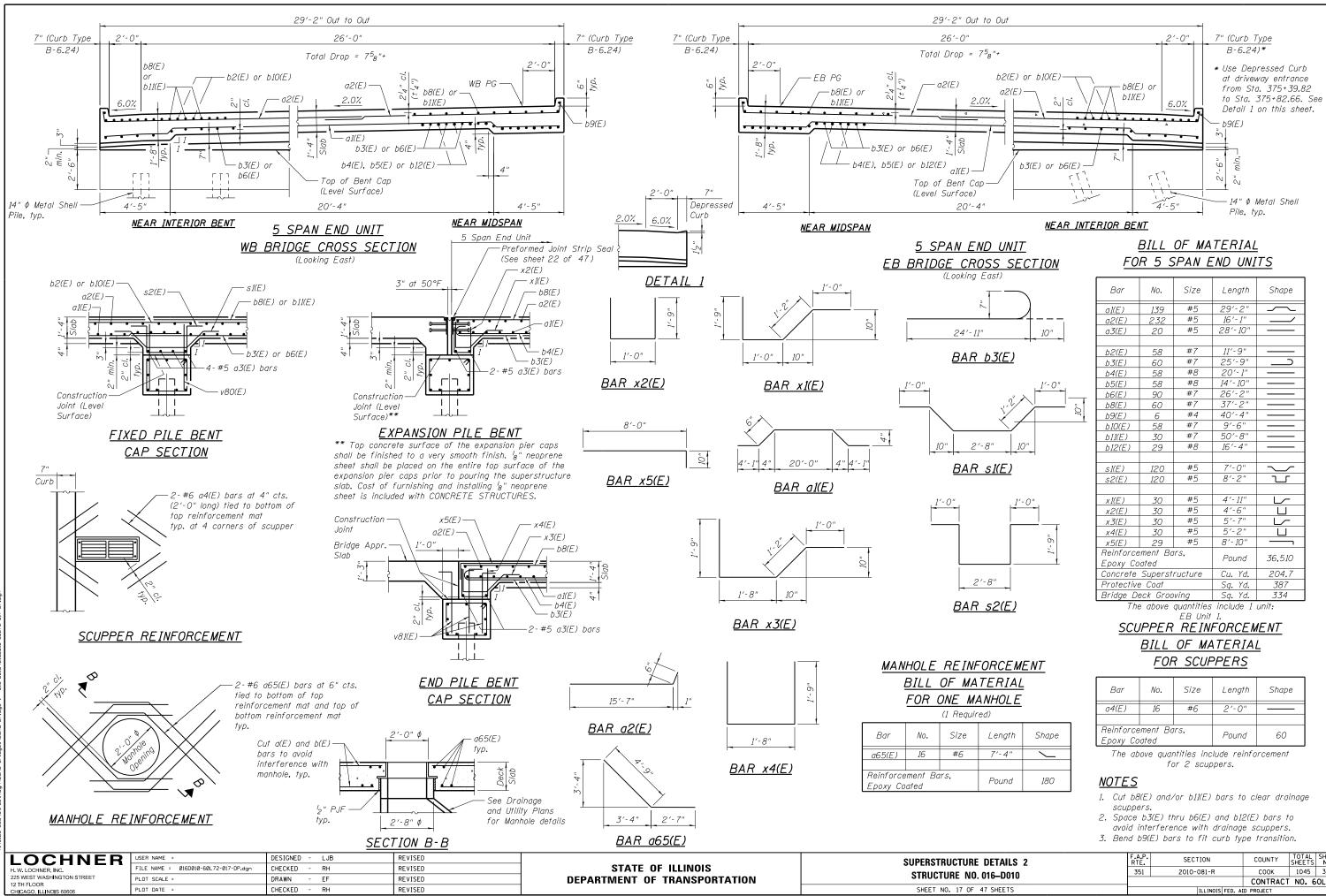
- 1. See Sheet 15 of 47 for superstructure details and Bill of Material.
- 2. Bars indicated thus 20 x 3-#5 etc. indicates 20 lines of bars with 3 lengths per line.
- 3. For Span arrangements, work this sheet with Sheets 1 and 2.



Bar	No.	Size	Length	Shape
a1(E)	252	#5	29'-2"	
a2(E)	420	#5	16′-1″	
a3(E)	36	#5	28′-10″	
b1(E)	180	#7	36′-11″	
b2(E)	174	#7	11'-9"	
b3(E)	180	#7	25′-9"	
b4(E)	174	#8	20'-1"	
b5(E)	87	#8	14 ' - 10 "	
b6(E)	90	#7	26'-2"	
b7(E)	12	#4	36′-1″	
s1(E)	180	#5	7'-0"	\sim
s2(E)	180	#5	8′-2″	
x1(E)	90	#5	4′-11″	
x2(E)	90	#5	4′-6″	
x3(E)	90	#5	5′-7″	
x4(E)	90	#5	5′-2″	
x5(E)	87	#5	8′-10″	
Reinforce		Pound	66,460	
Ероху Сс				
Concrete		Cu. Yd.	362.7	
Protective			Sq. Yd.	699
Bridge D	eck Groc	ving	Sq. Yd.	603

E DETAILS 1	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
. 016–D010	351	2010-081-R	СООК	1045	393
			CONTRACT	NO. 6	0L72
47 SHEETS		ILLINOIS FED. AI	D PROJECT		



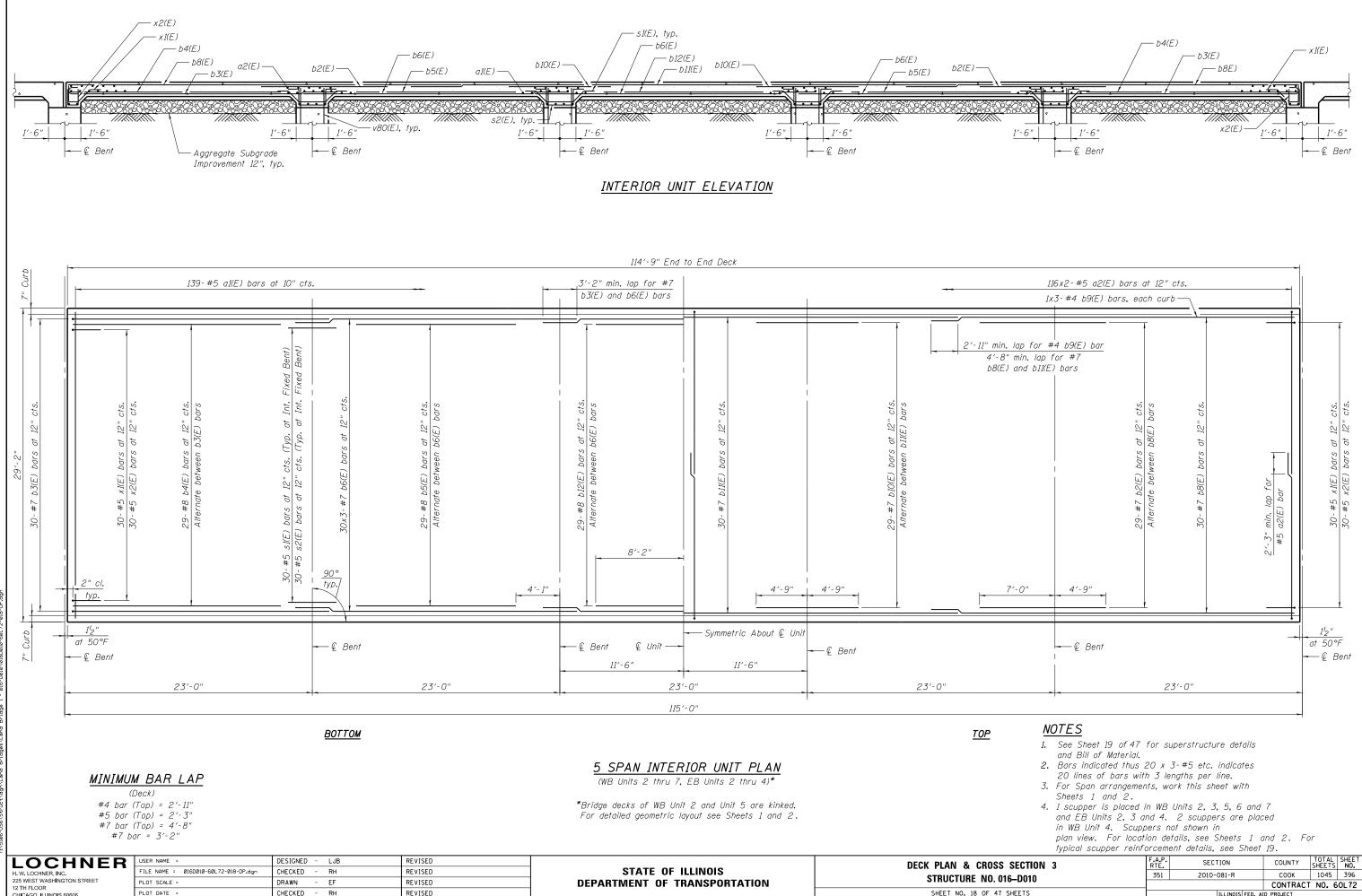


Length	Shape
7'-4"	<u> </u>
Pound	180

Bar	No.	Size	Length	Shape
a1(E)	139	#5	29'-2"	<u> </u>
a2(E)	232	#5	16 ′ - 1″	
a3(E)	20	#5	28'-10"	
b2(E)	58	#7	11'-9"	
b3(E)	60	#7	25′-9"	
b4(E)	58	#8	20'-1"	
b5(E)	58	#8	14 ' - 10 "	
b6(E)	90	#7	26'-2"	
b8(E)	60	#7	37'-2"	
b9(E)	6	#4	40'-4"	
b10(E)	58	#7	9′-6″	
b11(E)	30	#7	50′-8″	
b12(E)	29	#8	16′-4″	
s1(E)	120	#5	7'-0"	\sim
s2(E)	120	#5	8'-2"	
x1(E)	30	#5	4′-11″	
x2(E)	30	#5	4'-6"	
x3(E)	30	#5	5′-7″	
x4(E)	30	#5	5′-2″	
x5(E)	29	#5	8'-10"	
Reinforce	ement Ba	Pound	36,510	
Ероху Сс		i ounu		
Concrete	Superst	Cu. Yd.	204.7	
Protective		Sq. Yd.	387	
Bridge D		<u> </u>	Sq. Yd.	334
The	e above	quantities	include 1	unit:

Bar	No.	Size	Length	Shape
a4(E)	16	#6	2'-0"	
Reinforce Epoxy Co		Pound	60	

DETAILS 2	F.A.P. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
016–D010	351	2010-081-R	СООК	1045	395
010-0010			CONTRACT	NO. 6	0L72
17 SHEETS	ILLINOIS FED. AID PROJECT				

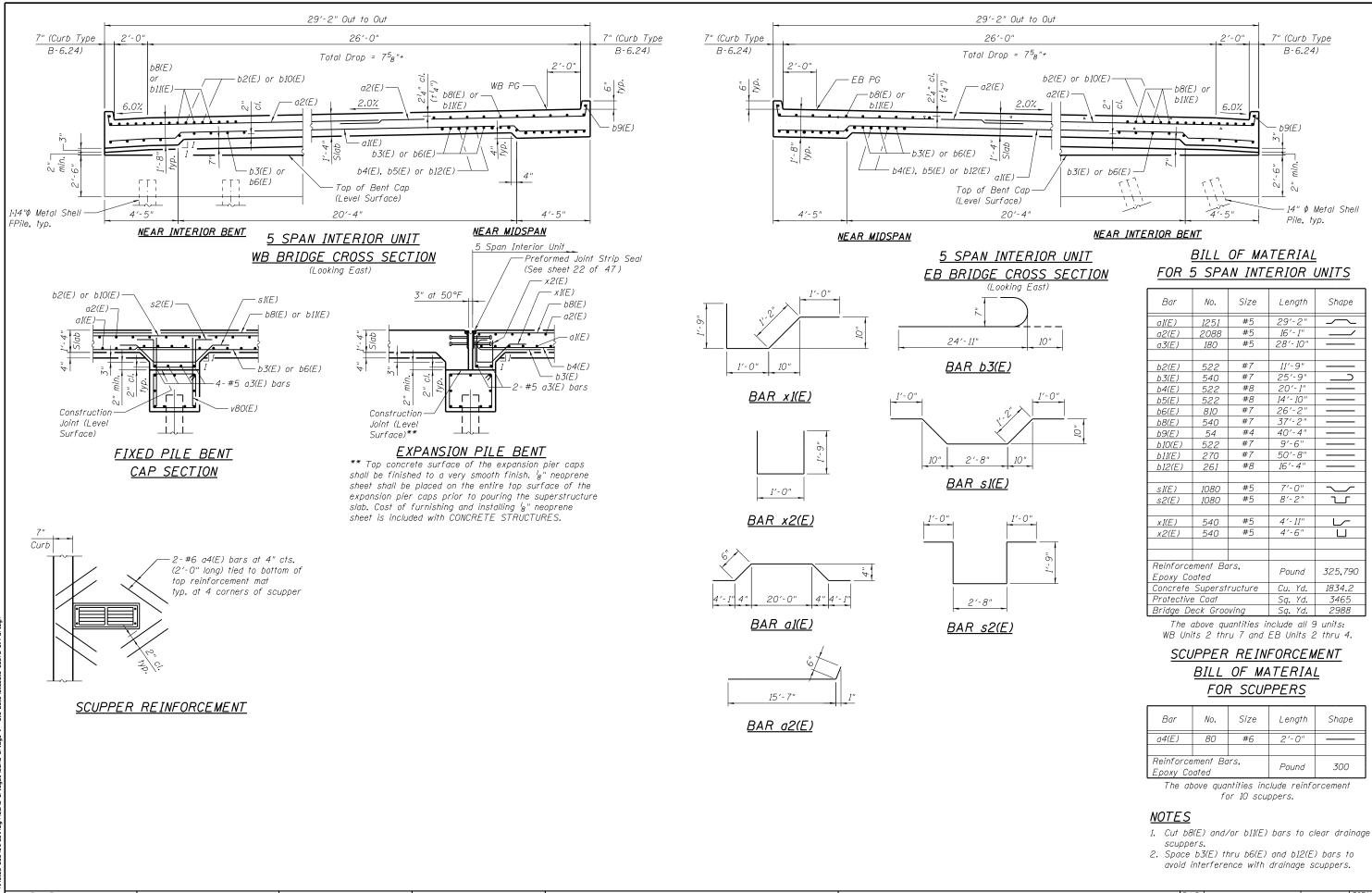


CHICAGO, ILLINOIS 6060

REVISED

SHEET NO. 18 OF 47 SHEETS

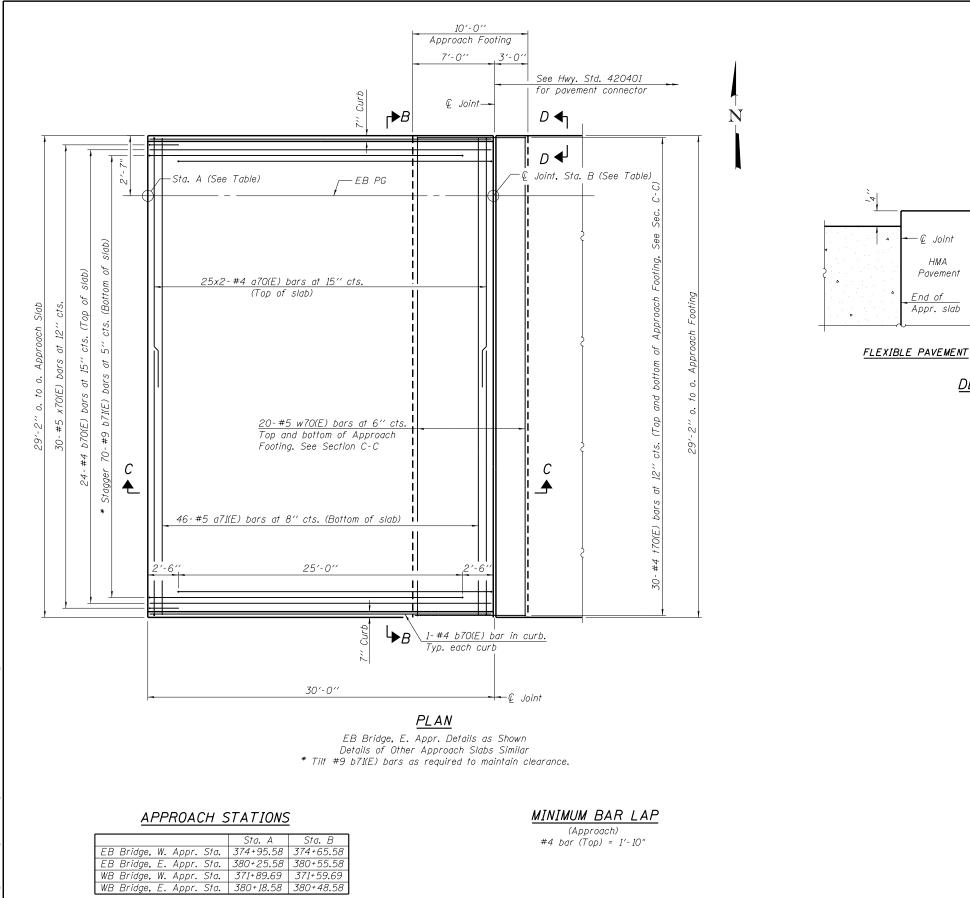
TULINOIS FED ALD PROJECT



LOCHNER	USER NAME =	DESIGNED - LJB	REVISED	STATE OF ILLINOIS	SUPERSTRUCTURE DETAILS 3	F.A.P. SECTION	COUNTY TOTAL SHEET
TI. W. LOGIINER, INC.	FILE NAME = 016D010-60L72-019-DP.dgn	CHECKED - RH	REVISED			351 2010-081-R	СООК 1045 397
225 WEST WASHINGTON STREET 12 TH FLOOR	PLOT SCALE =	DRAWN - EF	REVISED	DEPARTMENT OF TRANSPORTATION	STRUCTURE NO. 016–D010		CONTRACT NO. 60L72
CHICAGO, ILLINOIS 60606	PLOT DATE =	CHECKED - RH	REVISED		SHEET NO. 19 OF 47 SHEETS		PROJECT

Bar	No.	Size	Length	Shape
a1(E)	1251	#5	29'-2"	
a2(E)	2088	#5	16'-1"	/
a3(E)	180	#5	28'-10"	
b2(E)	522	#7	11'-9"	
b3(E)	540	#7	25'-9"	
b4(E)	522	#8	20'-1"	
b5(E)	522	#8	14 ' - 10 "	
b6(E)	810	#7	26'-2" 37'-2"	
b8(E)	540	#7	37'-2"	
b9(E)	54	#4	40'-4"	
b10(E)	522	#7	9′-6″	
b11(E)	270	#7	50′-8″	
b12(E)	261	#8	16′-4″	
s1(E)	1080	#5	7'-0"	\sim
s2(E)	1080	#5	8'-2"	
x1(E)	540	#5	4'-11" 4'-6"	
x2(E)	540	#5	4'-6"	
Reinforce		rs,	Pound	325,790
Ероху Сс				
Concrete		Cu. Yd.	1834.2	
Protective			Sq. Yd.	3465
Bridge D	eck Groo	ving	Sq. Yd.	2988

Bar	No.	Size	Length	Shape
a4(E)	80	#6	2'-0"	
Reinforcement Bars, Epoxy Coated			Pound	300

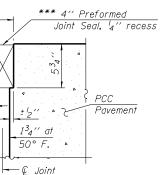


LOCHNER	USER NAME =	DESIGNED -	LJB	REVISED		APPROACH SLAB DETAILS 1	F.A.P.	SECTION	COUNTY TO	FOTAL SHEET
H. W. LOCHNER, INC.	FILE NAME = 016D010-60L72-020-AS.dgn	CHECKED -	RH	REVISED	STATE OF ILLINOIS	STRUCTURE NO. 016-D010	351	2010-081-R	СООК 1	1045 398
225 WEST WASHINGTON STREET 12 TH FLOOR	PLOT SCALE =	DRAWN -	EF	REVISED	DEPARTMENT OF TRANSPORTATION	STRUCTURE NU. UIO-DUTU			CONTRACT N	NO. 60L72
CHICAGO, ILLINOIS 60606	PLOT DATE =	CHECKED -	RH	REVISED		SHEET NO. 20 OF 47 SHEETS	ILLINOIS FED. AID PROJECT			

Notes:

The joint opening shall be determined per Article 520.04 except that on jointless structures, the distance described as the bridge length between the nearest fixed bearings each way from the joint shall be taken as half the bridge length plus the approach slab length. The minimum dimension shall be $l_2^{\prime\prime}$ for installation purposes.

*** Cost included with Concrete Superstructure.





234′′ at

50° F.

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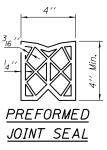
· 6

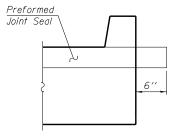
<u>End</u>of

<u>DETAIL</u>A

Appr. slab

± 1/2 ''

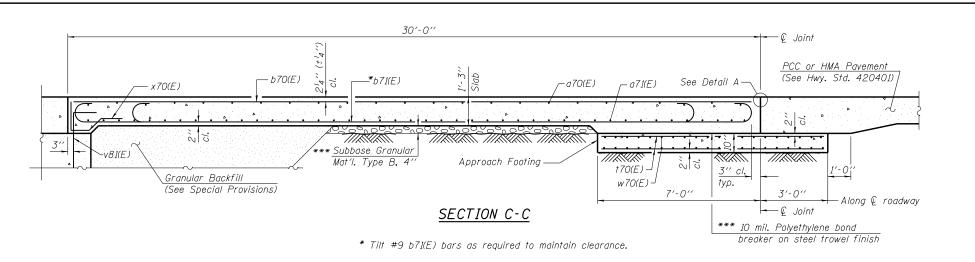




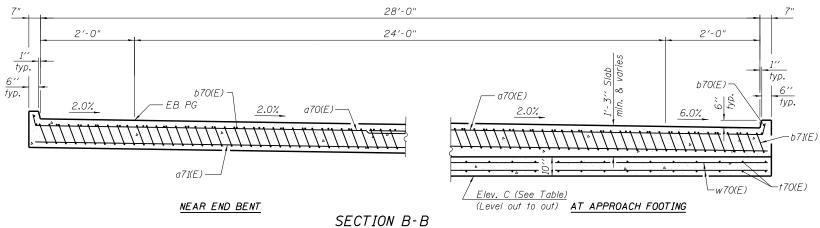
VIEW D-D

<u>NOTES</u>

- 1. See sheet 21 of 47 for Sections B-B and C-C.
- 2. a71(E) and a70(E) bar spacings measured along € Rdwy.



*** Cost included with Concrete Superstructure.



Looking East Eastbound Approach Slab Details as shown Westbound Approach Slab Details similar (See Plan for dimensions not shown)

APPROACH FOOTING ELEVATIONS

	Elev. C
EB Bridge, W. Appr. Ftg.	685.56
EB Bridge, E. Appr. Ftg.	687.05
WB Bridge, W. Appr. Ftg.	691.08
WB Bridge, E. Appr. Ftg.	687.02

6		
	15 '- 4 "	
	BAR a70(E)	

ΞĒ.						
	LOCHNER	USER NAME =	DESIGNED - LJB	REVISED		APPROACH SLAB D
	H. W. LOCHNER, INC.	FILE NAME = Ø16D010-60L72-021-AS.dgn	CHECKED - RH	REVISED	STATE OF ILLINOIS	
	225 WEST WASHINGTON STREET 12 TH FLOOR	PLOT SCALE =	DRAWN - EF	REVISED	DEPARTMENT OF TRANSPORTATION	STRUCTURE NO.0
	CHICAGO, ILLINOIS 60606	PLOT DATE =	CHECKED - RH	REVISED		SHEET NO. 21 OF 47

NOTES

1.

11-31

See Sheet 20 of 47 for Detail A.

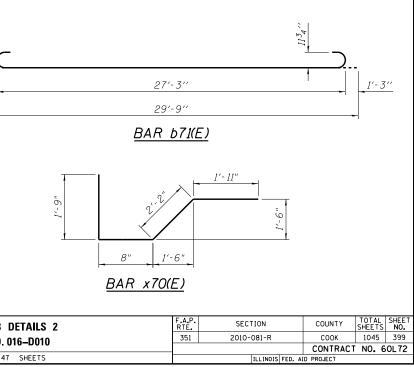
Approach slab and concrete curb shall be paid for as CONCRETE SUPERSTRUCTURE.
 Approach footing concrete shall be paid for as CONCRETE STRUCTURES.
 Reinforcement shall be paid for as REINFORCEMENT BARS, EPOXY COATED.
 For v8I(E) bar details, see Sheet 24 of 47.

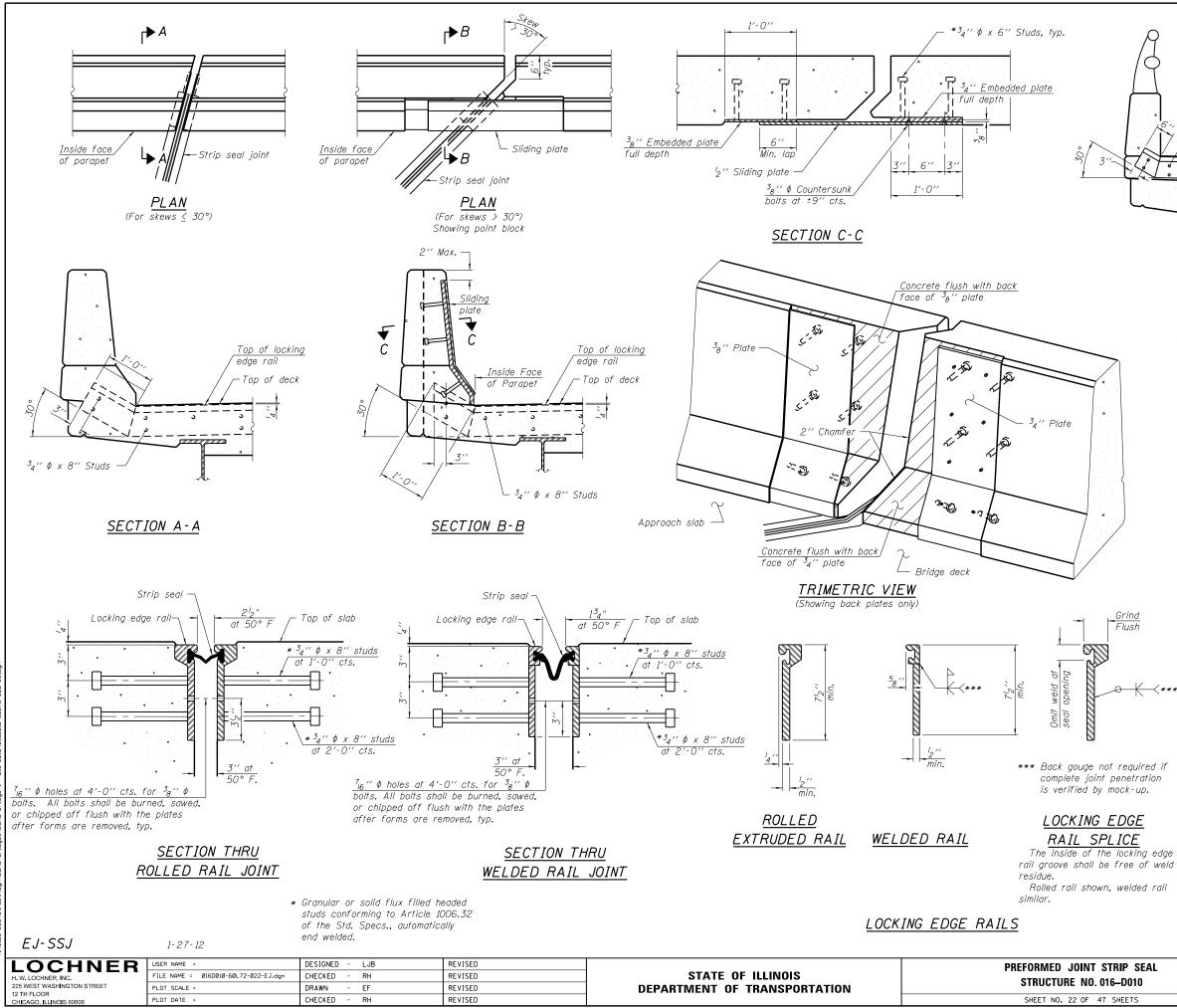
 For v81(E) bar details, see Sheet 24 of 47.
 The approach footing maximum applied service bearing pressure (Qmax) = 2.0 ksf.
 Cost of excavation for approach footing included with STRUCTURE EXCAVATION.
 For Granular Backfill and drainage treatment details, see Sheet 3 of 47.

BILL OF MATERIAL FOR APPROACH SLABS

Bar	No.	Size	Length	Shape	
a70(E)	200	#4	15′-10″		
a71(E)	184	#5	28'-10"		
b70(E)	104	#4	29'-8"		
b71(E)	280	#9	29'-9"	<u>ر</u> ے	
†70(E)	240	#4	9′-8″		
w70(E)	160	#5	29′-8″		
x70(E)	120	#5	6′-6″		
Reinforce	ement Ba	ırs,	Pound	45,360	
Ероху Сс	ated		Pound		
Concrete	Superst	Cu. Yd.	187.6		
Concrete	Structur	Cu. Yd.	36.4		
Structure	Excava	Cu. Yd.	48		
Bridge D	eck Groc	Sq. Yd.	324		
Protective	e Coat		Sq. Yd.	404	

The above quantities include all 4 approach slabs.





$\int \frac{1}{\sqrt{2}} \int \frac{3}{4} \int \frac{1}{\sqrt{2}} \phi \times \frac{3}{4} \int \frac{1}{\sqrt{2}} \int \frac{1}{\sqrt{2}} \frac{1}{\sqrt{2}} \frac{1}{\sqrt{2}} \int \frac{1}{\sqrt{2}} \frac{1}{\sqrt{2}} \frac{1}{\sqrt{2}} \frac{1}{\sqrt{2}} \int \frac{1}{\sqrt{2}} \frac{1}{$	
S'' Constant	Top of locking edge rail
	•

TYPICAL END TREATMENT AT SIDEWALK OR MEDIAN

Shorter plates with a single row of studs at 12" cts. may be necessary on medians which are shallower than 9". See manufacturer's recommendation.

Notes:

The strip seal shall be made continuous and shall have a minimum thickness of l_4'' . The configuration of the strip seal shall match the configuration of the Locking Edge Rails. Open or "webbed" strip seal gland configurations are not permitted. The gland shall be sized for a maximum rated movement of 4 inches.

The Locking Edge Rails depicted are conceptual only, except for the minimum dimensions shown. The actual configuration of the Locking Edge Rails and matching strip seal may vary from manufacturer to manufacturer. Flanged edge rails will not be allowed. Locking Edge Rails may be spliced at slope discontinuities.

The manufacturer's recommended installation methods shall be followed.

The joint opening and deck dimensions detailed on the superstructure are based on a rolled rail expansion joint. If the Contractor elects to use the welded rail expansion joint, the opening and deck dimensions shall be modified according to the dimensions detailed on this sheet. Required modifications shall be made at no additional cost to the State.

All steel components shall be galvanized after fabrication according to Article 520.03 of the Standard Specifications. Maximum space between rail segments shall be ${}^{3}_{I6}$

sealed with a suitable sealant. Joints in rails within 10 ft. of curbs shall be welded.

Parapet plates and anchorage studs for skews > 30° included in the cost of Preformed Joint Strip Seal.

BILL OF MATERIAL

Item	Unit	Total
Preformed Joint Strip Seal	Foot	322

STRIP SEAL	F.A.P. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
016–D010	351	2010-081-R	СООК	1045	400	
	CONTRACT NO. 60L72					
47 SHEETS	ILLINOIS FED. AID PROJECT					