

SCHEDULE OF QUANTITIES

		TOTAL
ITEM DESCRIPTION	UNITS	TOTAL QTY.
SIGN PANEL - TYPE 1	SQ FT	42
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	1094
UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	26
UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	957
UNDERGROUND CONDUIT, GALVANIZED STEEL, 5" DIA.	FOOT	310
HANDHOLE	EACH	4
HEAVY-DUTY HANDHOLE	EACH	4
DOUBLE HANDHOLE	EACH	5
TRANSCEIVER - FIBER OPTIC	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	2714
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	5047
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	5372
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	1085
ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	6159
ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C	FOOT	220
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	1810
TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EACH	2
STEEL MAST ARM ASSEMBLY AND POLE, 46 FT.	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE, 50 FT.	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE, 52 FT.	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE, 55 FT.	EACH	1
CONCRETE FOUNDATION, TYPE A	FOOT	12
CONCRETE FOUNDATION, TYPE C	FOOT	4
CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	58
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	13
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	6
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	2
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED	EACH	2
PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	14
TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC	EACH	15
INDUCTIVE LOOP DETECTOR	EACH	21
DETECTOR LOOP, TYPE I	FOOT	1765
LIGHT DETECTOR	EACH	4
LIGHT DETECTOR AMPLIFIER	EACH	1
PEDESTRIAN PUSH-BUTTON	EACH	11
TEMPORARY TRAFFIC SIGNAL INSTALLATION	EACH	1
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
REMOVE EXISTING HANDHOLE	EACH	11
REMOVE EXISTING DOUBLE HANDHOLE	EACH	1
REMOVE EXISTING CONCRETE FOUNDATION	EACH	7
EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C	FOOT	1234
LED INTERNALLY ILLUMINATED STREET NAME SIGN	EACH	4
FULL-ACTUATED CONTROLLER AND TYPE SUPER R CABINET (SPECIAL)	EACH	1
SERVICE INSTALLATION, GROUND MOUNTED, METERED	EACH	1
PEDESTRIAN SIGNAL POST, 10 FT.	EACH	3
UNINTERRUPTABLE POWER SUPPLY, SPECIAL	EACH	1
CONCRETE FOUNDATION, TYPE A 10-INCH DIAMETER	FOOT	12
TEMPORARY TRAFFIC SIGNAL TIMING	EACH	1
ELECTRIC CABLE IN CONDUIT, STREET NAME SIGN, NO. 14 3C, TYPE SOOW	FOOT	1079
ELECTRIC CONSEL IN CONSECUT, STREET HAME STORY NO. 17 SO, THE SOON	1 301	1013

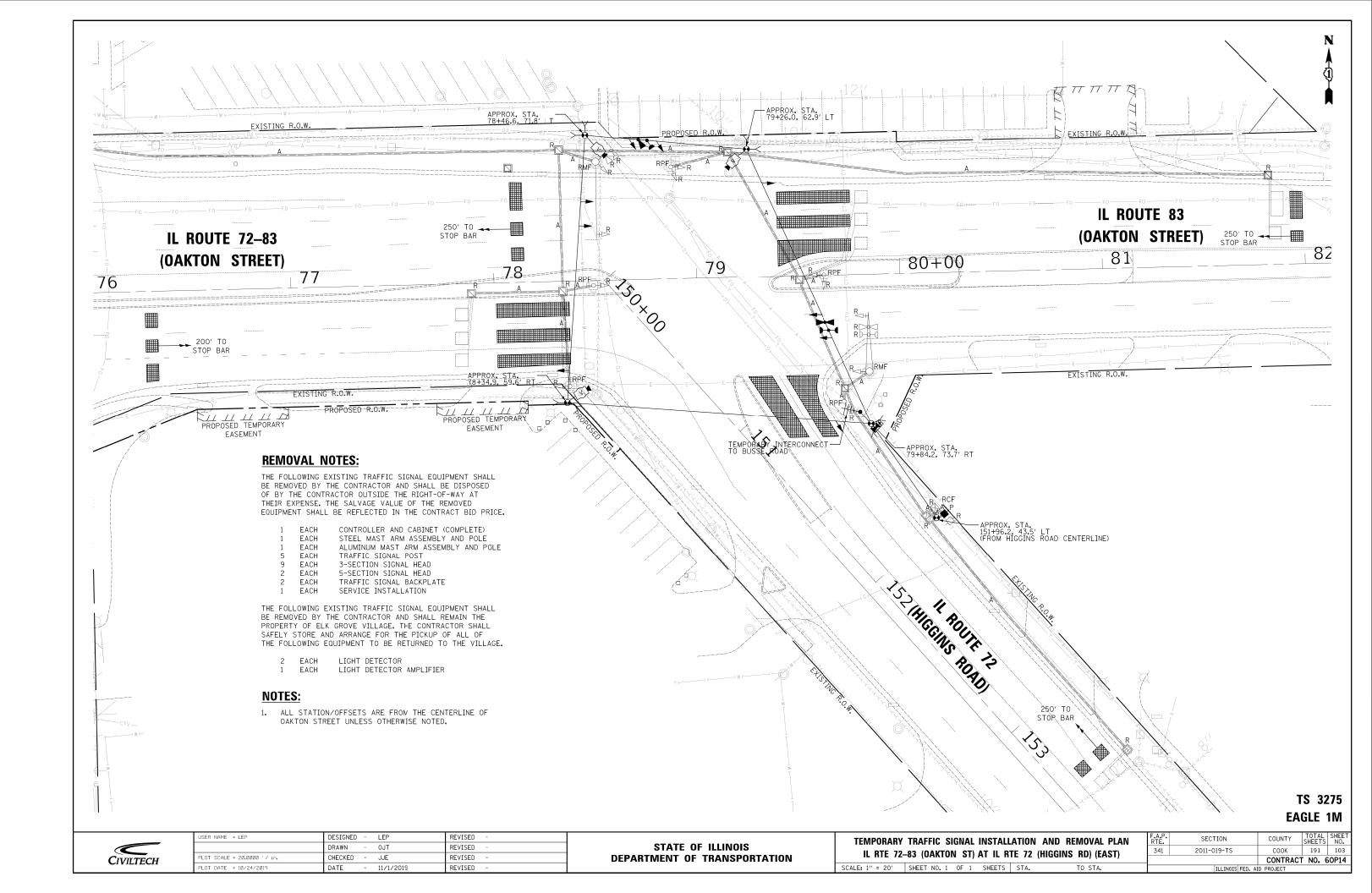
TS 11310 EAGLE 1M



USER NAME = JJe	DESIGNED -	-	LEP	REVISED	-
	DRAWN -	-	OJT	REVISED	-
PLOT SCALE = 20.0000 '/ in.	CHECKED -		JJE	REVISED	-
PLOT DATE = 11/1/2019	DATE -		11/1/2019	REVISED	-

ILLUMINATED	STREET	NAME S	IGNS AN	ND SCHEDUI	E OF QUANTITIES	R
IL RTE 72-8	B3 (OAKT	ON ST) A	AT IL RT	E 83 (BUSS	E RD) (MIDDLE)	
CALE NO COALE	CUEET NO	1 05 1	CHEETC	CTA.	TO CTA	

•	SECTION	COUNTY	TOTAL SHEETS	SHEE NO.
	2011-019-TS	соок	191	102
		CONTRACT	NO. 6	OP1
	ILLINOIS FED. A	ID PROJECT		



TEMPORARY CONTROLLER SEQUENCE IL ROUTE 72-83 (OAKTON STREET) **←**6)— (8)

LEGEND:

◆ PROTECTED PHASE

←-(*)-- PROTECTED/PERMITTED PHASE

→

→

PEDESTRIAN PHASE

Output

Description

PEDESTRIAN

PHASE

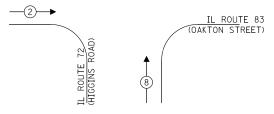
Output

Description

PHASE

PHA

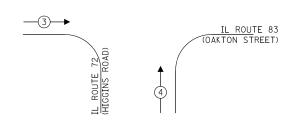
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TEMPORARY EMERGENCY VEHICLE PREEMPTION SEQUENCE



IL_ROUTE 72-83 (OAKTON STREET) **4**-3)--



TRAFFIC SIGNAL **ELECTRICAL SERVICE REQUIREMENTS**

	NO. OF	LED	%	TOTAL							
TYPE	LAMPS	WATTAGE	OPERATION	WATTAGE							
SIGNAL (RED)	9	11	50	49.5							
(YELLOW)	9	20	5	9.0							
(GREEN)	9	12	45	48.6							
ARROW	-	10	10	-							
PED. SIGNAL	-	20	100	-							
CONTROLLER	1	100	100	100.0							
UPS	1	25	100	25.0							
VIDEO SYSTEM	1	150	100	150.0							
BLANK-OUT SIGN	1	25	5	-							
FLASHER	-	-	50	-							
STREET NAME SIGN	-	120 50		-							
LUMINAIRE	-	-	-	-							
			TOTAL =	382.1							

ENERGY COSTS TO:

ELK GROVE VILLAGE 901 WELLINGTON AVENUE ELK GROVE VILLAGE, IL 60007

ENERGY SUPPLY: CONTACT: CHRISTINE LEFTWICH

PHONE: (630) 424-5124

COMPANY: COMED ACCOUNT NUMBER: 1183141069

CIVILTECH

JSER NAME = LEP	DESIGNED - LEP	REVISED -
	DRAWN - OJT	REVISED -
PLOT SCALE = 20.0000 '/ in.	CHECKED - JJE	REVISED -
PLOT DATE = 10/24/2019	DATE - 11/1/2019	REVISED -

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

TEMPORARY CABLE PLAN, TEMPORARY PHASE DESIGNATION DIAGRAM, & TEMPORARY EMERGENCY VEHICLE PREEMPTION SEQUENCE IL RTE 72-83 (OAKTON ST) AT IL RTE 72 (HIGGINS RD) (EAST) SCALE: NO SCALE | SHEET NO. 1 OF 1 SHEETS | STA.

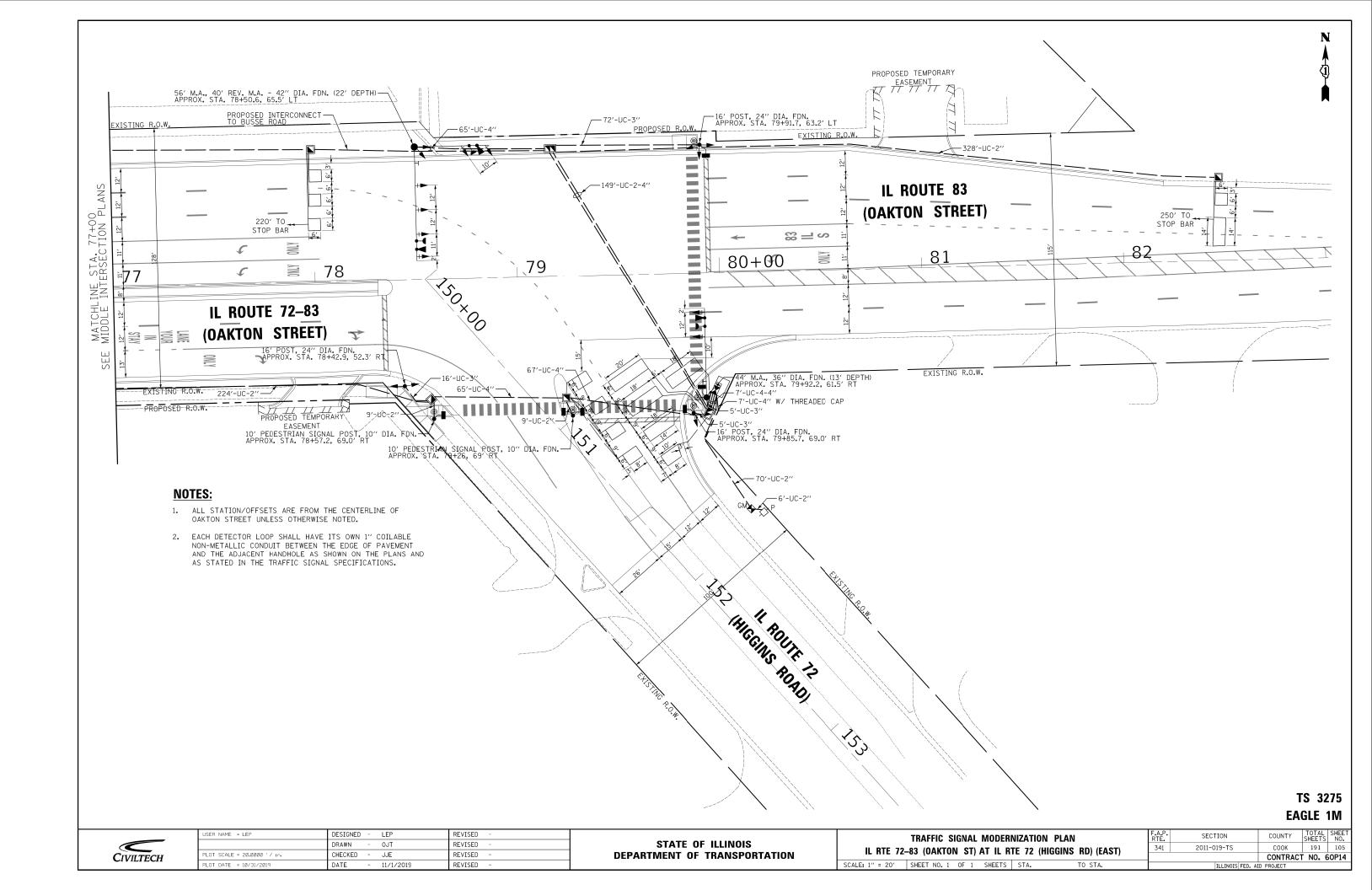
SECTION COUNTY 2011-019-TS СООК 191 104 CONTRACT NO. 60P14

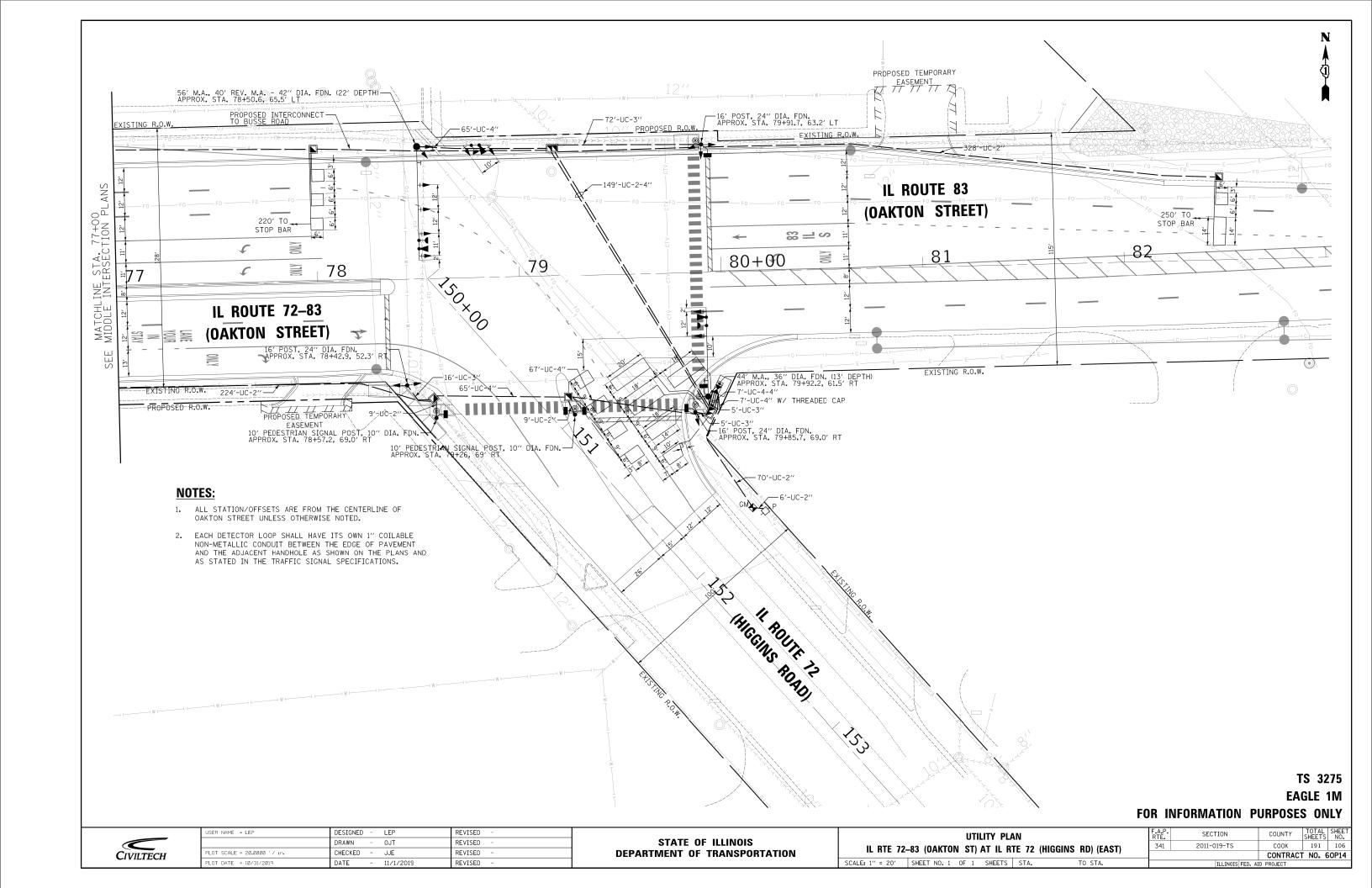
TS 3275

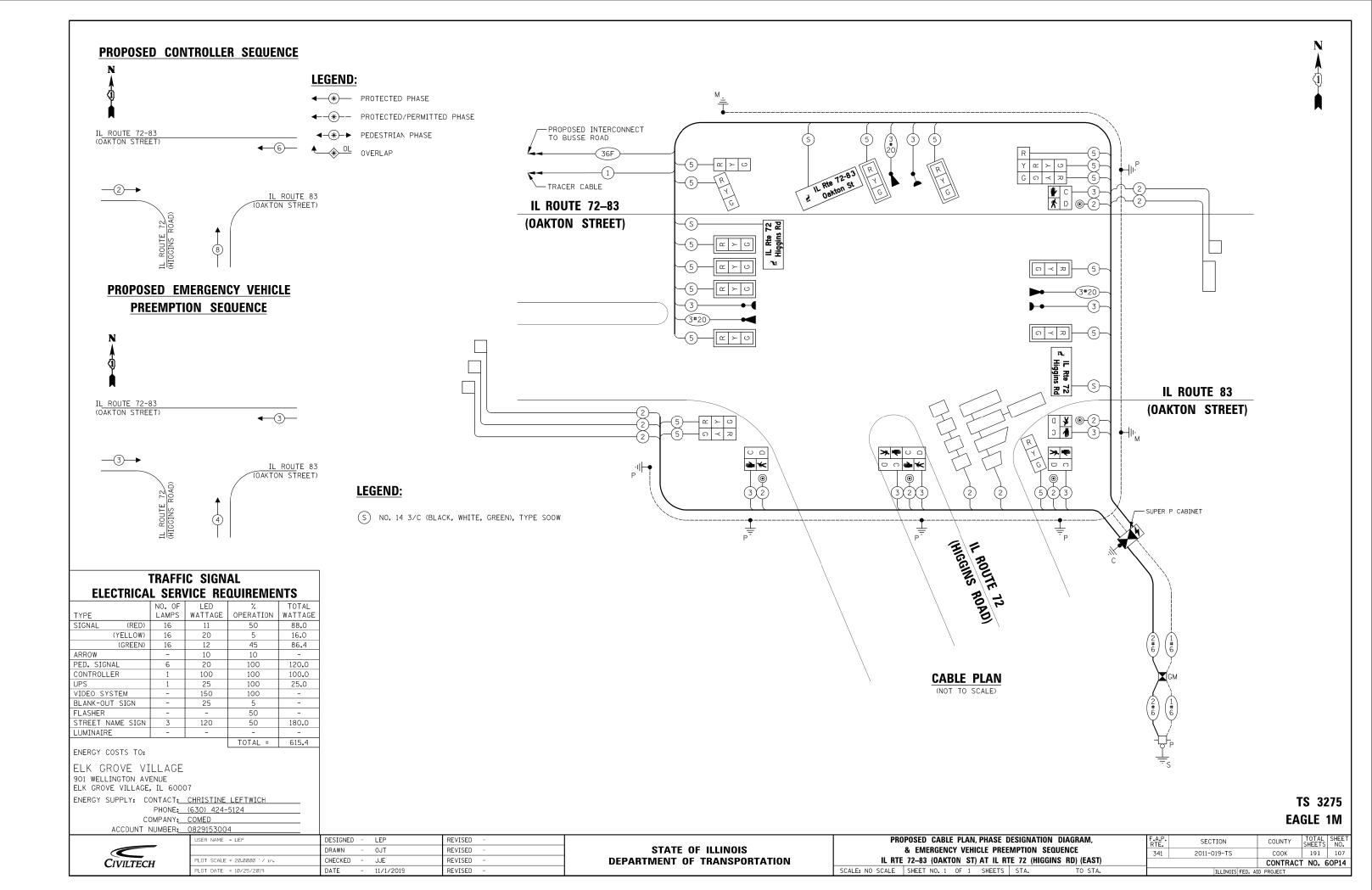
EAGLE 1M

IL ROUTE 72-83 (OAKTON STREET) (5) C > (0) o ≺ ₹ 5 \square \square \square \square \square IL ROUTE 83 (OAKTON STREET) TEMPORARY INTERCONNECT-TO BUSSE ROAD

CABLE PLAN (NOT TO SCALE)







SIGN PANEL - ILLUMINATED STREET NAME SIGN

ALL DIMENSIONS ARE IN INCHES UNLESS NOTED OTHERWISE



20 LED SNS

ZZ



SCHEDULE OF QUANTITIES

ITEM DESCRIPTION	UNITS	TOTAL QTY.
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	646
UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	98
UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	530
HANDHOLE	EACH	4
DOUBLE HANDHOLE	EACH	2
TRANSCEIVER - FIBER OPTIC	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	649
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	1554
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	3876
ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	2365
ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C	FOOT	115
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	888
TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EACH	3
STEEL MAST ARM ASSEMBLY AND POLE, 44 FT.	EACH	1
CONCRETE FOUNDATION, TYPE A	FOOT	16
CONCRETE FOUNDATION, TYPE C	FOOT	4
CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	13
CONCRETE FOUNDATION, TYPE E 42-INCH DIAMETER	FOOT	22
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	8
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	8
PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	6
TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC	EACH	8
INDUCTIVE LOOP DETECTOR	EACH	7
DETECTOR LOOP, TYPE I	FOOT	600
LIGHT DETECTOR	EACH	3
LIGHT DETECTOR AMPLIFIER	EACH	1
PEDESTRIAN PUSH-BUTTON	EACH	5
TEMPORARY TRAFFIC SIGNAL INSTALLATION	EACH	1
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
REMOVE EXISTING HANDHOLE	EACH	8
REMOVE EXISTING DOUBLE HANDHOLE	EACH	1
REMOVE EXISTING CONCRETE FOUNDATION	EACH	8
EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C	FOOT	736
LED INTERNALLY ILLUMINATED STREET NAME SIGN	EACH	3
FULL-ACTUATED CONTROLLER AND TYPE SUPER P CABINET (SPECIAL)	EACH	1
SERVICE INSTALLATION, GROUND MOUNTED, METERED	EACH	1
PEDESTRIAN SIGNAL POST, 10 FT.	EACH	2
UNINTERRUPTABLE POWER SUPPLY, SPECIAL	EACH	1
CONCRETE FOUNDATION, TYPE A 10-INCH DIAMETER	FOOT	8
TEMPORARY TRAFFIC SIGNAL TIMING	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE WITH DUAL MAST ARMS, 40 FT. AND 56 FT.	EACH	1
ELECTRIC CABLE IN CONDUIT, STREET NAME SIGN, NO. 14 3C, TYPE SOOW	FOOT	632

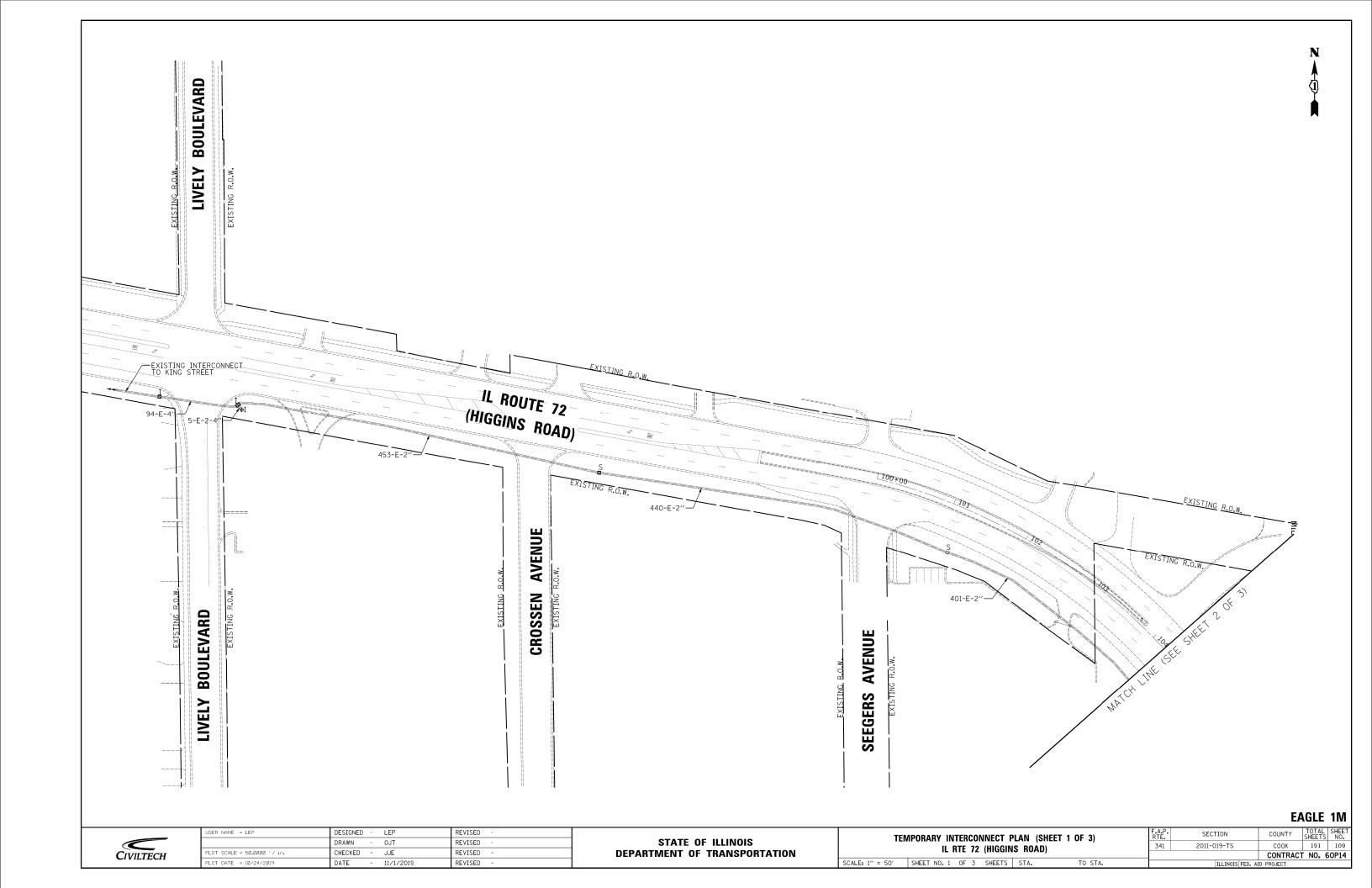
TS 3275 EAGLE 1M

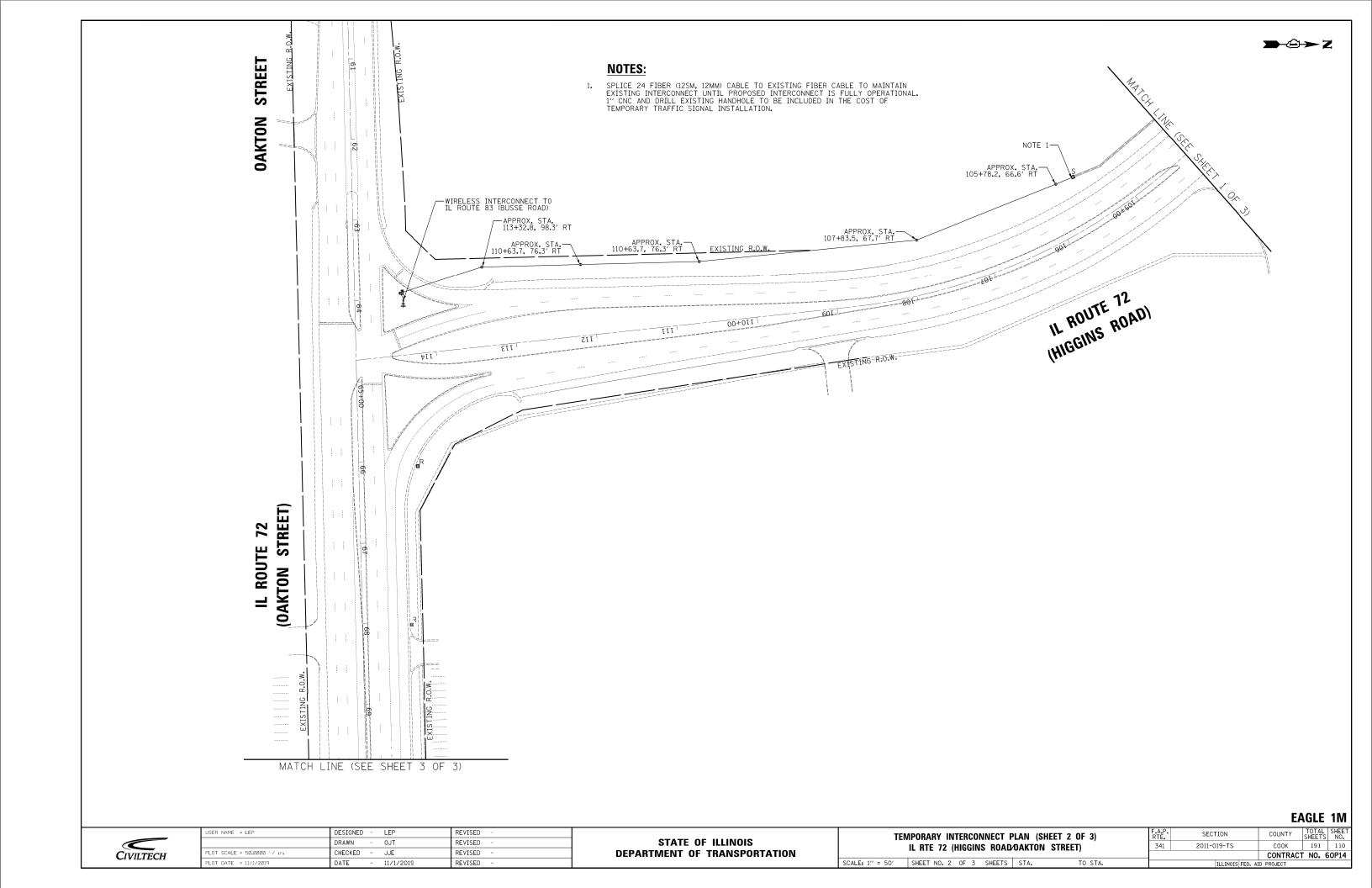


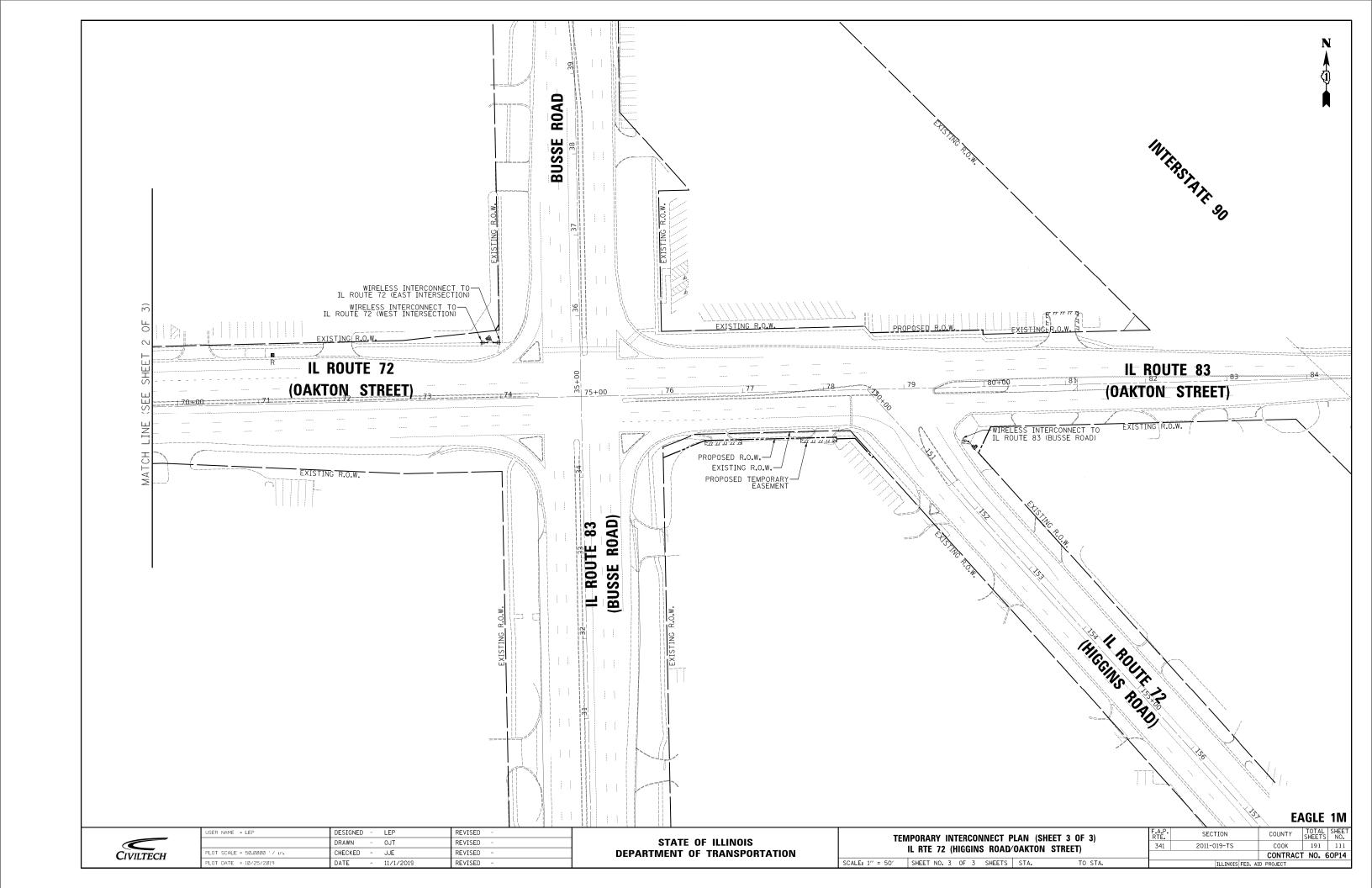
USER NAME = JJe	DESIGNED - LEP	REVISED -
	DRAWN - OJT	REVISED -
PLOT SCALE = 20.00000 '/ in.	CHECKED - JJE	REVISED -
PLOT DATE = 11/1/2019	DATE - 11/1/2019	REVISED -

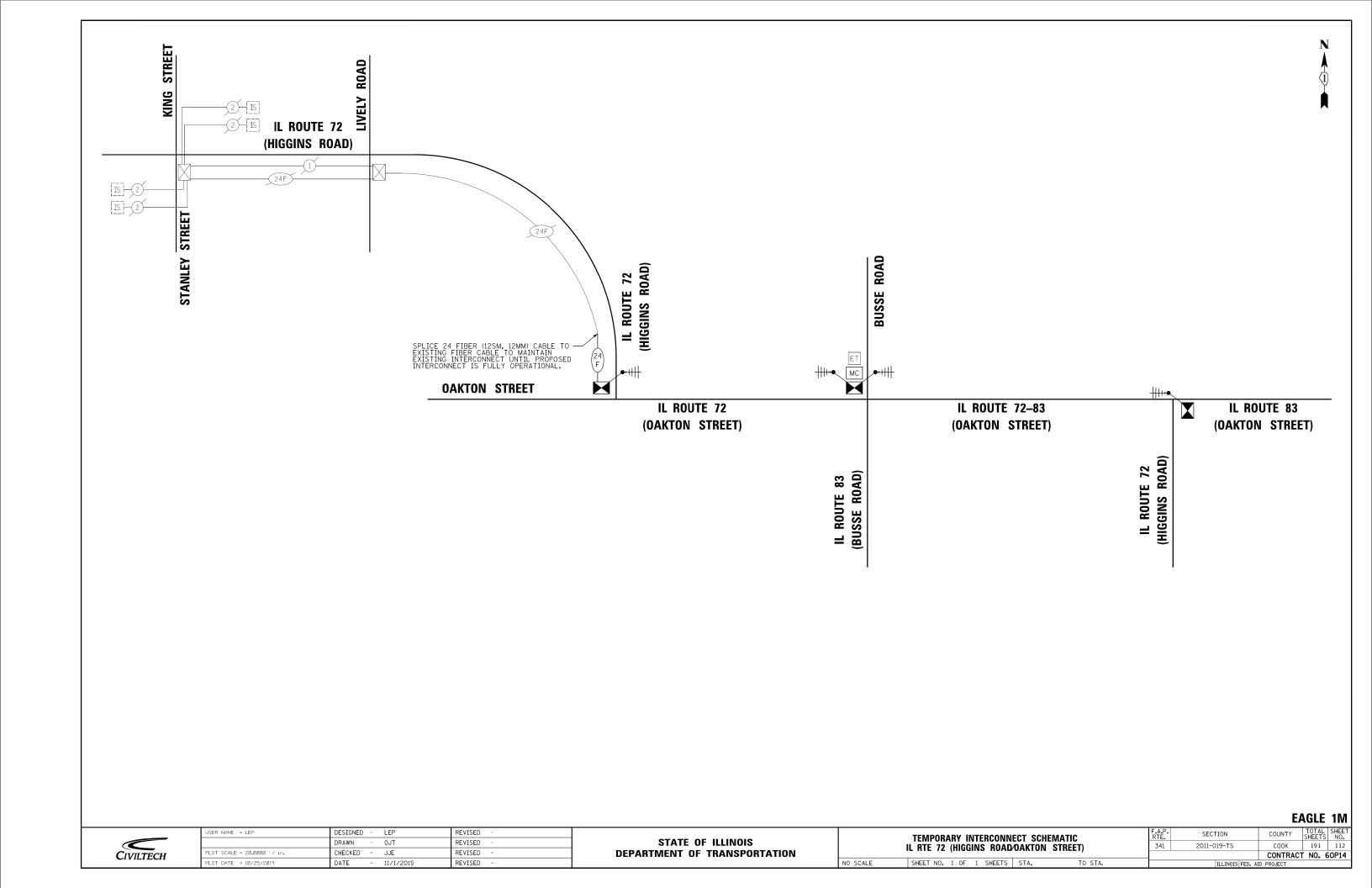
ILLUMINATED	STREET N	IAME S	IGNS A	ND SCHEDULE OF QUANTITIES	R
IL RTE 72-	-83 (OAKTO	ON ST)	AT IL R	TE 72 (HIGGINS RD) (EAST)	
SCALE: NO SCALE	SHEET NO.	1 OF 1	SHEETS	STA. TO STA.	1

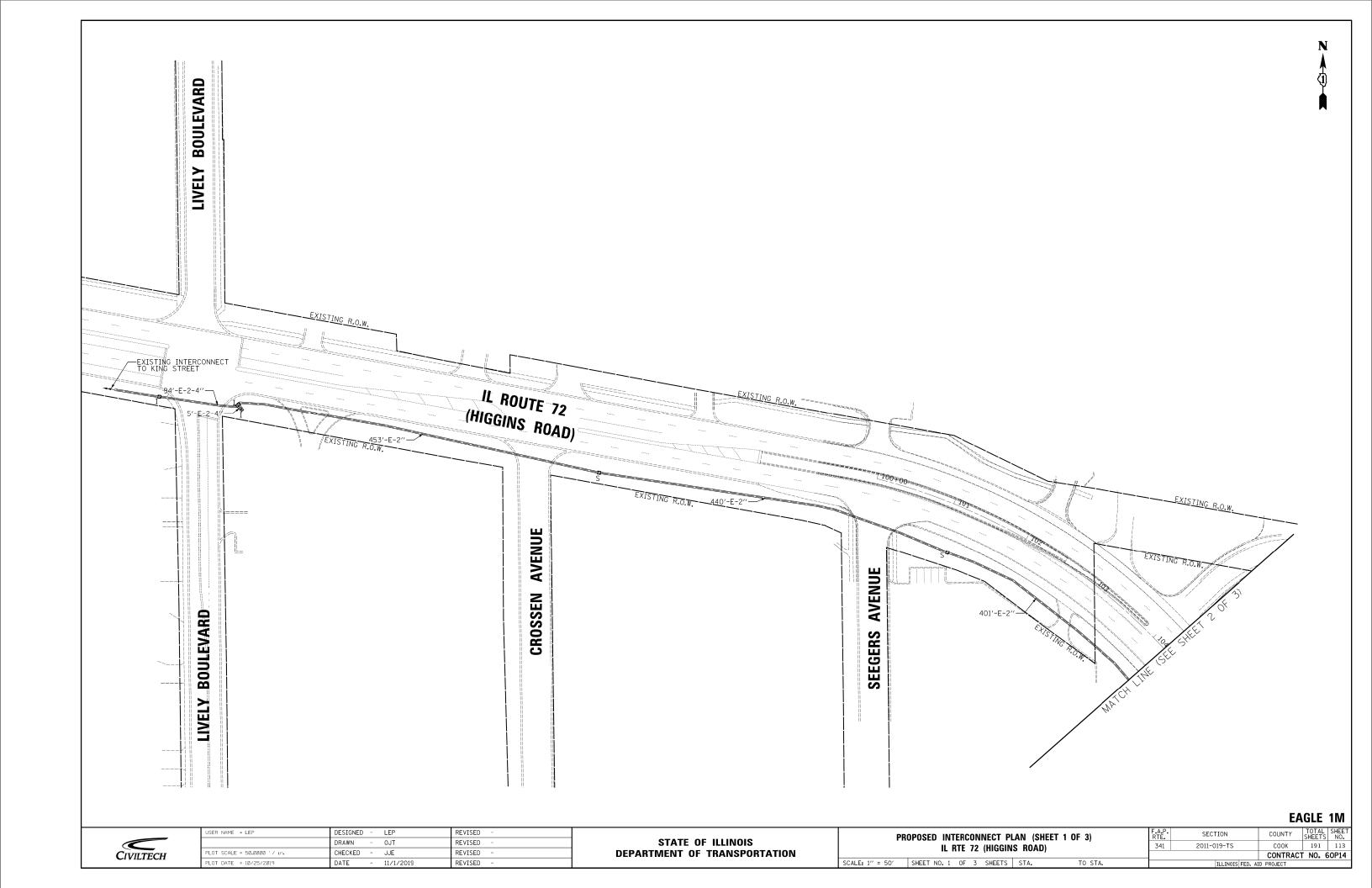
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41	2011-0	19-TS		Т	COOK	191	1
				Т	CONTRACT	NO. 6	SOP
		ILLINOIS	FED.	AID	PROJECT		

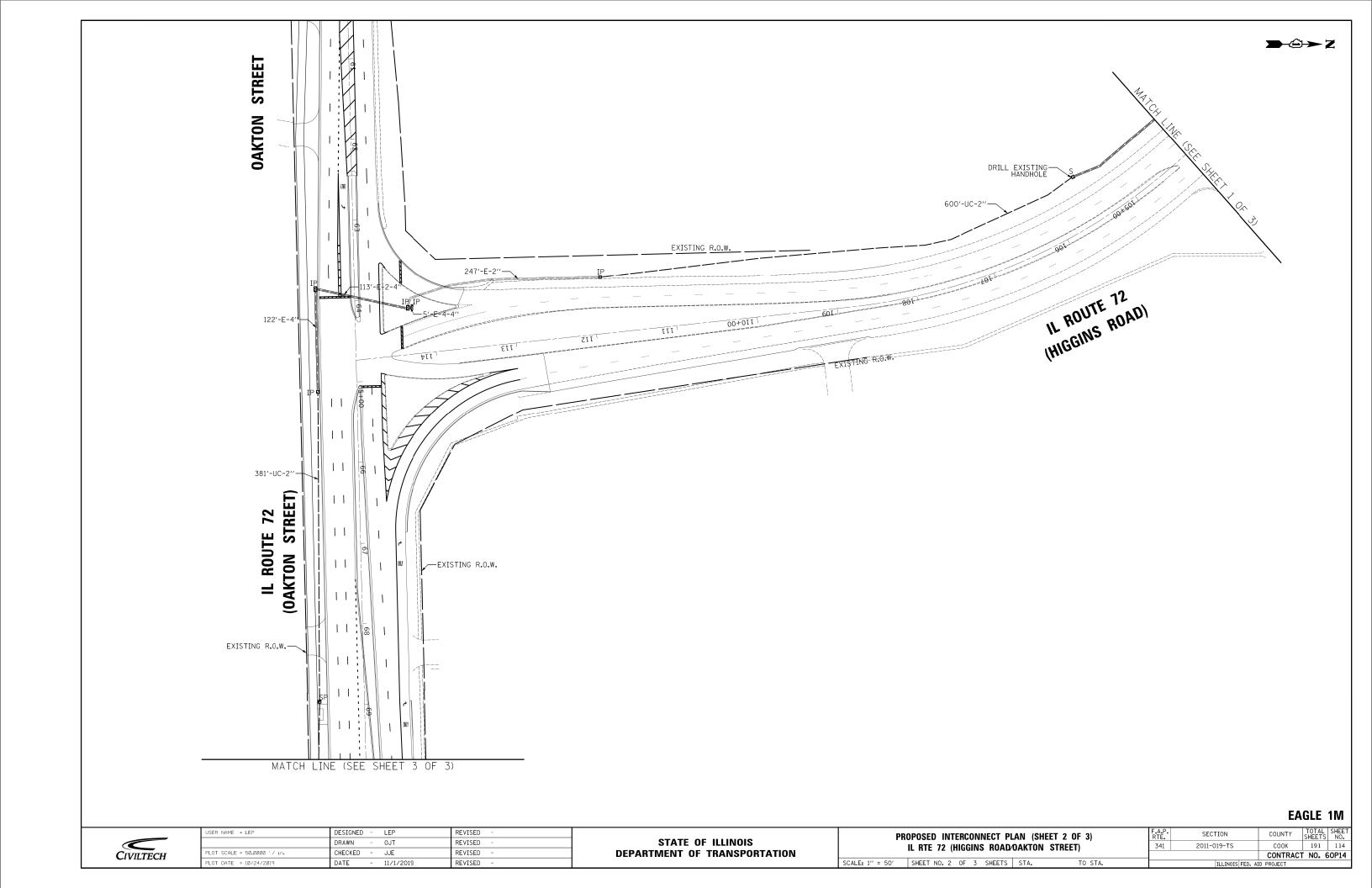


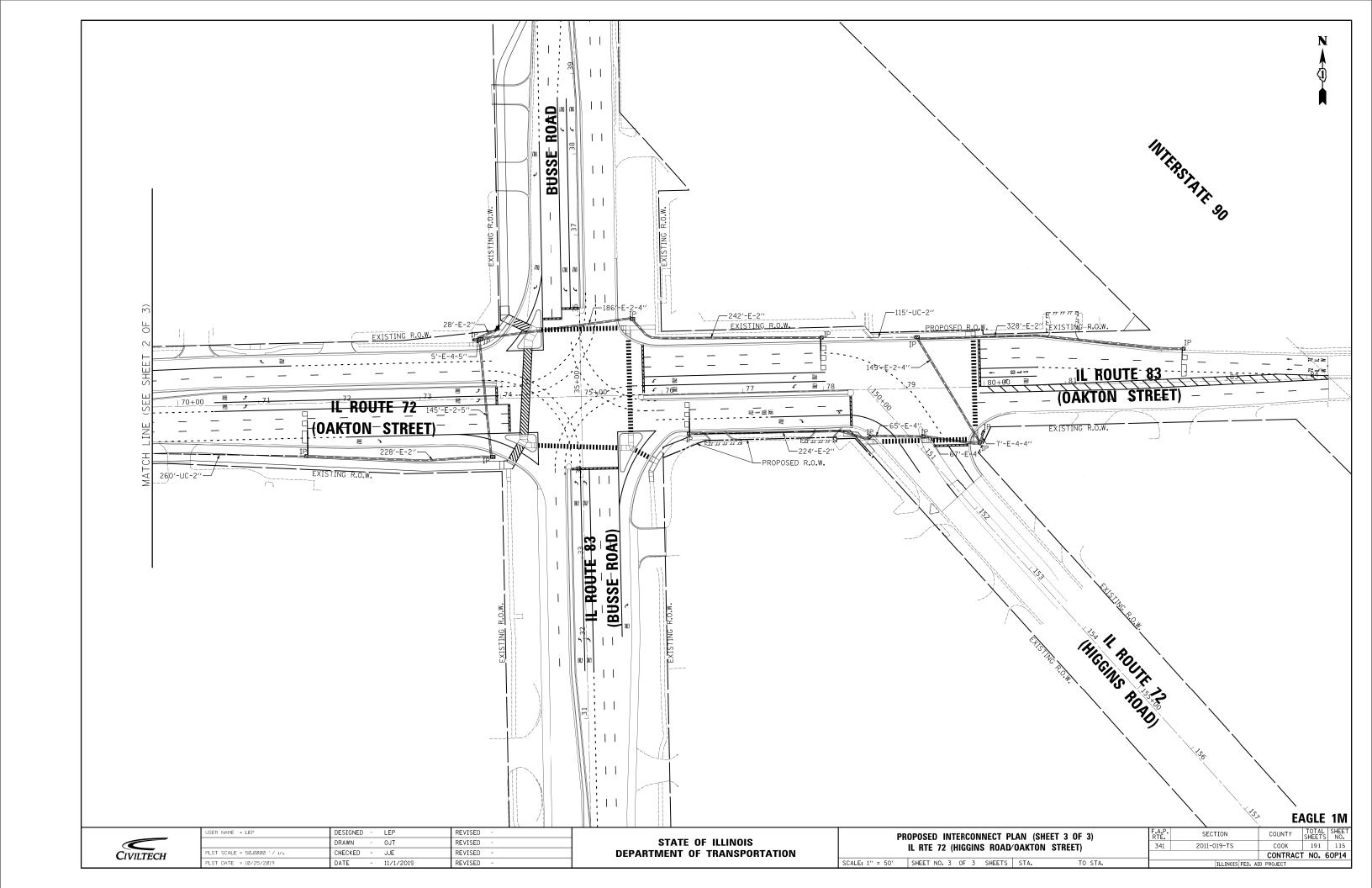


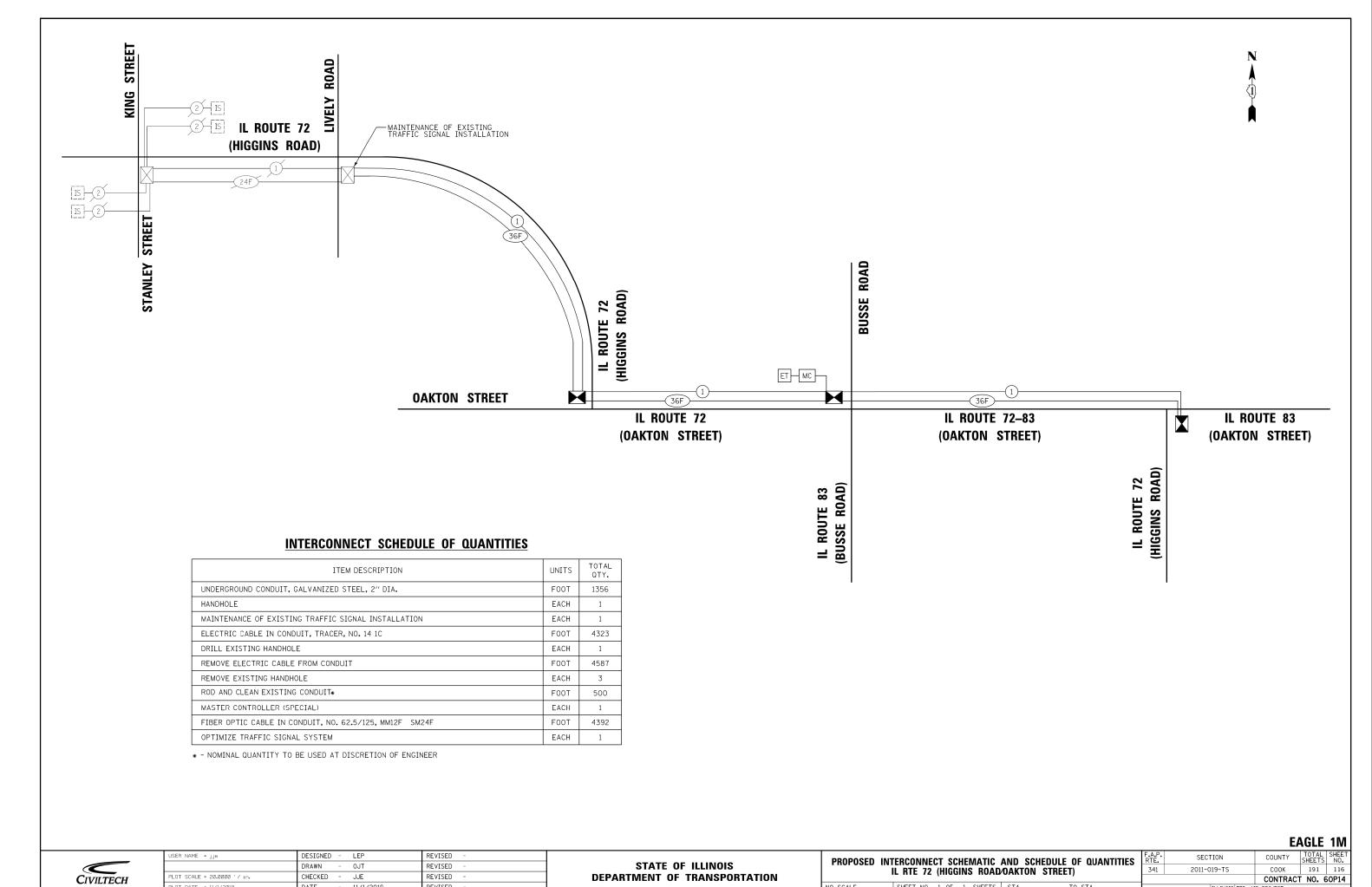












PLOT DATE = 11/1/2019	DATE - 11/1/2019	REVISED -		NO SCALE	SHEET NO. 1 OF 1 SHEETS STA. TO STA.		ILLINOIS FED. AI	D PROJECT	
PLOT SCALE = 20.0000 '/ in.	CHECKED - JJE	REVISED -	DEPARTMENT OF TRANSPORTATION		TE THE 7E (INCOMES HOND STREET)			CONTRAC	T NO. 60
	DRAWN - OJT	REVISED -	STATE OF ILLINOIS	1 1101 0025 111	IL RTE 72 (HIGGINS ROAD/OAKTON STREET)	341	2011-019-TS	СООК	191
USER NAME = JJe	DESIGNED - LEP	REVISED -		PROPOSED IN	TERCONNECT SCHEMATIC AND SCHEDULE OF QUANTITIES	RTE.	SECTION	COUNTY	SHEETS

GENERAL NOTES:

- THIS PROJECT INCLUDES THE INSTALLATION OF A NEW LIGHTING SYSTEM ALONG IL. ROUTE 72 (HIGGINS RD.) AND IL. ROUTE 83 (BUSSE RD.) THE PROPOSED LIGHTING SHALL BE OWNED AND MAINTAINED BY ELK GROVE VILLAGE.
- THE CONTRACTOR SHALL REQUEST A PARTIAL MAINTENANCE TRANSFER BEFORE WORK BEGINS TO CONNECT THE PROPOSED LIGHTING TO THE EXISTING LIGHTING CONTROLLER "EGF". THE CONTRACTOR SHALL CONTACT BRIAN LOVERING, CHIEF ENGINEER OF THE VILLAGE OF ELK GROVE VILLAGE AT (847) 734-8800.
- THE CONTRACTOR SHALL CONTACT THE ELECTRIC UTILITY COMPANY TO COORDINATE THE ELECTRIC SERVICE WORK. THE FIELD CONTACT PERSON IS LISA WILLIAMS OF Comed AT (630) 424-5702.
- 4. THE QUANTITIES OF RACEWAY WHEREVER INDICATED ON THESE PLANS ARE APPROXIMATIONS ONLY. THE CONTRACTOR SHALL FIELD VERIFY ALL LENGTHS AND SHALL INSTALL RACEWAYS IN COMPLETE COMPLIANCE WITH THE SPECIFIED REQUIREMENTS.
- 5. THE CONTRACTOR SHALL NOTIFY J.U.L.I.E. TO LOCATE AND MARK/STAKE ALL UNDERGROUND UTILITIES.
- 6. THE CONTRACTOR SHALL MARK THE PROPOSED LOCATIONS OF ALL LIGHT POLES FOR EXAMINATION AND CONFIRMATION WITH THE ENGINEER.
- 7. THE CONTRACTOR SHALL VERIFY LOCATIONS OF UNDERGROUND/OVERHEAD UTILITIES PRIOR TO INSTALLATION OF LIGHT POLES AND CONDUITS. IF THERE IS A CONFLICT WITH THE LIGHT POLES/CONDUITS AS SHOWN ON PLANS, THE CONTRACTOR SHALL SUGGEST ALTERNATIVE LOCATIONS AND COORDINATE WITH THE ENGINEER PRIOR TO PERFORMING DIGGING WORK. IT SHALL ALSO BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL DIMENSIONS AND CONDITIONS EXISTING IN THE FIELD PRIOR TO ORDERING MATERIALS AND BEGINNING CONSTRUCTION ACTIVITIES.
- 3. THE CONTRACTOR SHALL TAKE CARE WHEN INSTALLING UNIT DUCT TO AVOID CONFLICTS WITH EXISTING UNDERGROUND UTILITIES, SIDEWALK, DRIVEWAYS, PAVEMENT AND TREES INCLUDING THEIR ROOTS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE. THE CONTRACTOR SHALL REPAIR ANY DAMAGE AT NO ADDITIONAL COST AND THE REPAIRS SHALL BE TO THE SATISFACTION OF THE ENGINEER.
- 9. TRENCHES FOR LIGHTING RACEWAYS SHALL HAVE A MINIMUM DEPTH OF 30".
- LIGHTING SYSTEM INSTALLATION SHALL CONFORM TO THE LATEST IDOT STANDARDS, NEC AND LOCAL CODES.
- 11. ALL ELECTRICAL EQUIPMENT AND PRODUCTS SHALL BE U/L LISTED AND LABELED.
- 12. THE CONTRACTOR SHALL COORDINATE INSTALLATION OF ROADWAY LIGHTING WITH COMEd. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR JOB SITE SAFETY.
- 13. ALL LED ROADWAY LUMINAIRES SHALL BE MOUNTED HORIZONTALLY. WHEN INSTALLING AN LED ROADWAY LUMINAIRE ON A TENON TOP POLE, THE PAY ITEM "LUMINAIRE MOUNTING BRACKET-SPECIAL" SHALL BE USED.

BILL OF MATERIALS

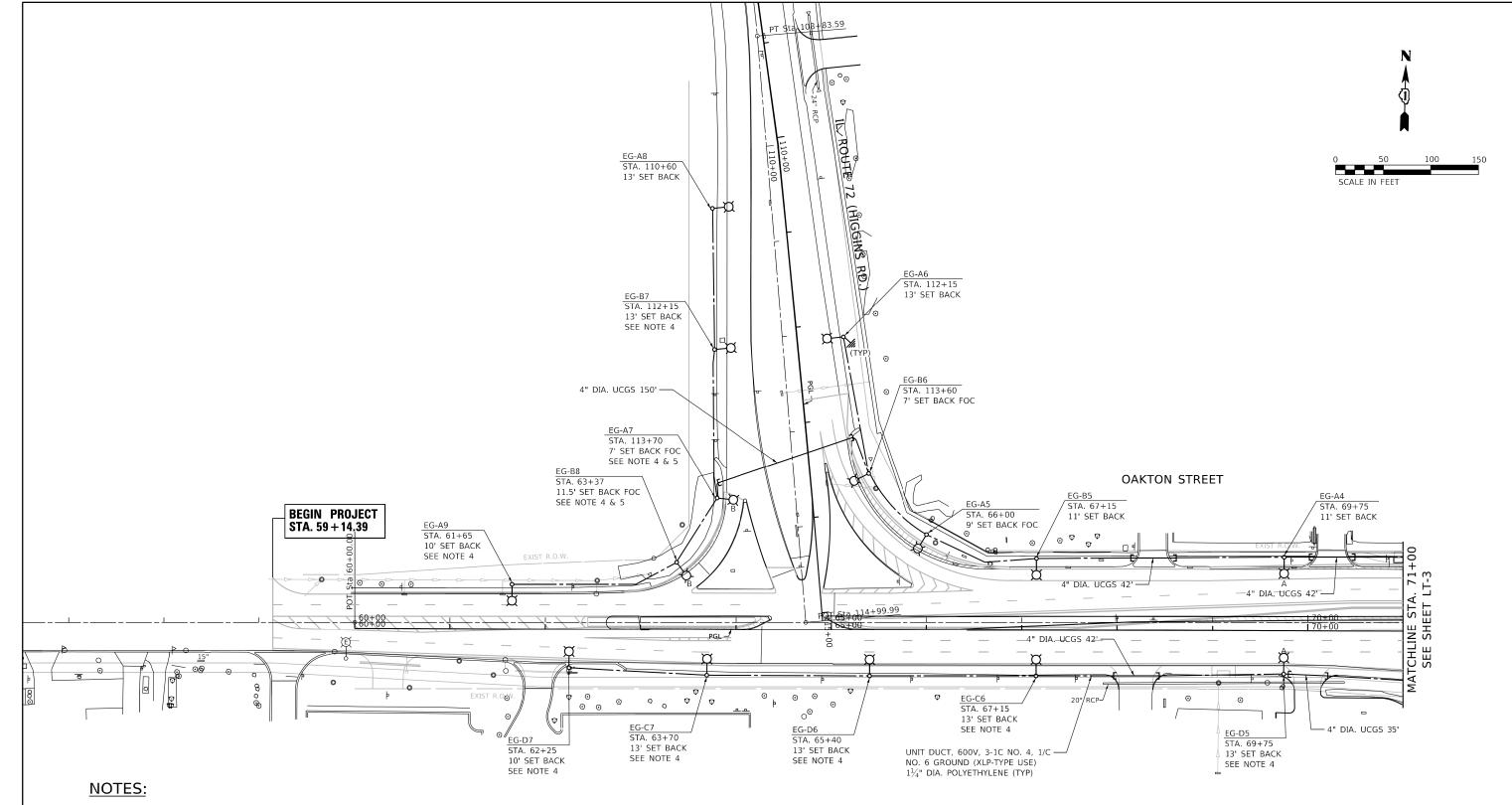
PAY ITEM	DESCRIPTION	UNIT	QUANTITY
80400100	ELECTRIC SERVICE INSTALLATION	EACH	1
80400200	ELECTRIC UTILITY SERVICE CONNECTION	L SUM	1
81028240	UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	1578
81603020	UNIT DUCT, 600V, 3-1C NO. 10, 1/C NO. 10 GROUND, (XLP-TYPE USE), $\frac{3}{4}$ " DIA. POLYETHYLENE	FOOT	80
81603090	UNIT DUCT, 600V, 3-1C NO. 4, 1/C NO. 6 GROUND, (XLP-TYPE USE), $1\frac{1}{4}$ " DIA. POLYETHYLENE	FOOT	9110
81702160	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 1/0	FOOT	150
82110008	LUMINAIRE, LED, ROADWAY, OUTPUT DESIGNATION H	EACH	49
83001600	LIGHT POLE, ALUMINUM, 35 FT. M.H., 15 FT. DAVIT ARM	EACH	2
83003400	LIGHT POLE, ALUMINUM, 45 FT. M.H., 10 FT. DAVIT ARM	EACH	19
83003600	LIGHT POLE, ALUMINUM, 45 FT. M.H., 15 FT. DAVIT ARM	EACH	28
83600200	LIGHT POLE FOUNDATION, 24" DIAMETER	FOOT	490
83800105	BREAKAWAY DEVICE, TRANSFORMER BASE, 11.5 INCH BOLT CIRCLE	EACH	2
83800205	BREAKAWAY DEVICE, TRANSFORMER BASE, 15 INCH BOLT CIRCLE	EACH	47
X8210402	LUMINAIRE MOUNTING BRACKET-SPECIAL	EACH	49
X8250505	LIGHTING CONTROLLER, SPECIAL	EACH	1

LEGEND

\sim	PROPOSED LIGHTING UNIT, 45 FT. MH, 15 FT. DAVIT ARM, (240V-LINE TO NEUTRAL), LED LUMINAIRE WITH BREAKAWAY DEVICE
$\overset{\wedge}{\longrightarrow} A$	PROPOSED LIGHTING UNIT, 45 FT. MH, 10 FT. DAVIT ARM, (240V-LINE TO NEUTRAL), LED LUMINAIRE WITH BREAKAWAY DEVICE
о—Д в	PROPOSED LIGHTING UNIT, 35 FT. MH, 15 FT. DAVIT ARM, (240V-LINE TO NEUTRAL), LED LUMINAIRE WITH BREAKAWAY DEVICE
○—(E)	EXISTING LIGHTING UNIT TO REMAIN
	UNIT DUCT, 600V, 3-1C NO. 4, 1/C NO. 6 GROUND (XLP-TYPE USE) $1^{1}\!\!/_4$ " DIA. POLYETHYLENE
-	ComEd ELECTRIC SERVICE POLE 240/480V, 1 PHASE 3 WIRE
$ \mathbf{E} $	PROPOSED LIGHTING CONTROLLER "EG_" 240/480V, 3 WIRE, 200 AMP, BASE MOUNTED
 3	RIGID GALVANIZED STEEL CONDUIT, UNDERGROUND, WITH UNIT DUCT
	ELECTRIC CABLE IN CONDUIT 4" DIA., 3-1/C NO. 1/0
÷	GROUND ROD §" DIA. X 10 FT.

USER NAME = \$USER\$	DESIGNED	-	BL	REVISED -
	DRAWN	-	MD	REVISED -
PLOT SCALE = \$SCALE\$	CHECKED	-	MB	REVISED -
PLOT DATE = \$DATE\$	DATE	-	08-07-2020	REVISED -

341



- 1. FOR LEGEND AND GENERAL NOTES, SEE SHEET LT-1.
- 2. SET BACK IS FROM EDGE OF PAVEMENT UNLESS OTHERWISE INDICATED FROM FACE OF CURB (FOC).
- 3. UCGS STANDS FOR UNDERGROUND CONDUIT, GALVANIZED STEEL.
- 4. THE CONTRACTOR SHALL COORDINATE WITH COMED FOR LIGHT POLE PLACEMENT UNDER/ADJACENT TO TRANSMISSION AND DISTRIBUTION LINES.
- 5. POLE FOUNDATION WITH BREAKAWAY DEVICE, TRANSFORMER BASE, 11.5 INCH BOLT CIRCLE.

<u> </u>	AMES Engineering, Inc.	U
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	CONSULTING ENGINEERS	┕
	6330 Belmont Road, Unit 4B	Р
	Downers Grove, IL 60516	

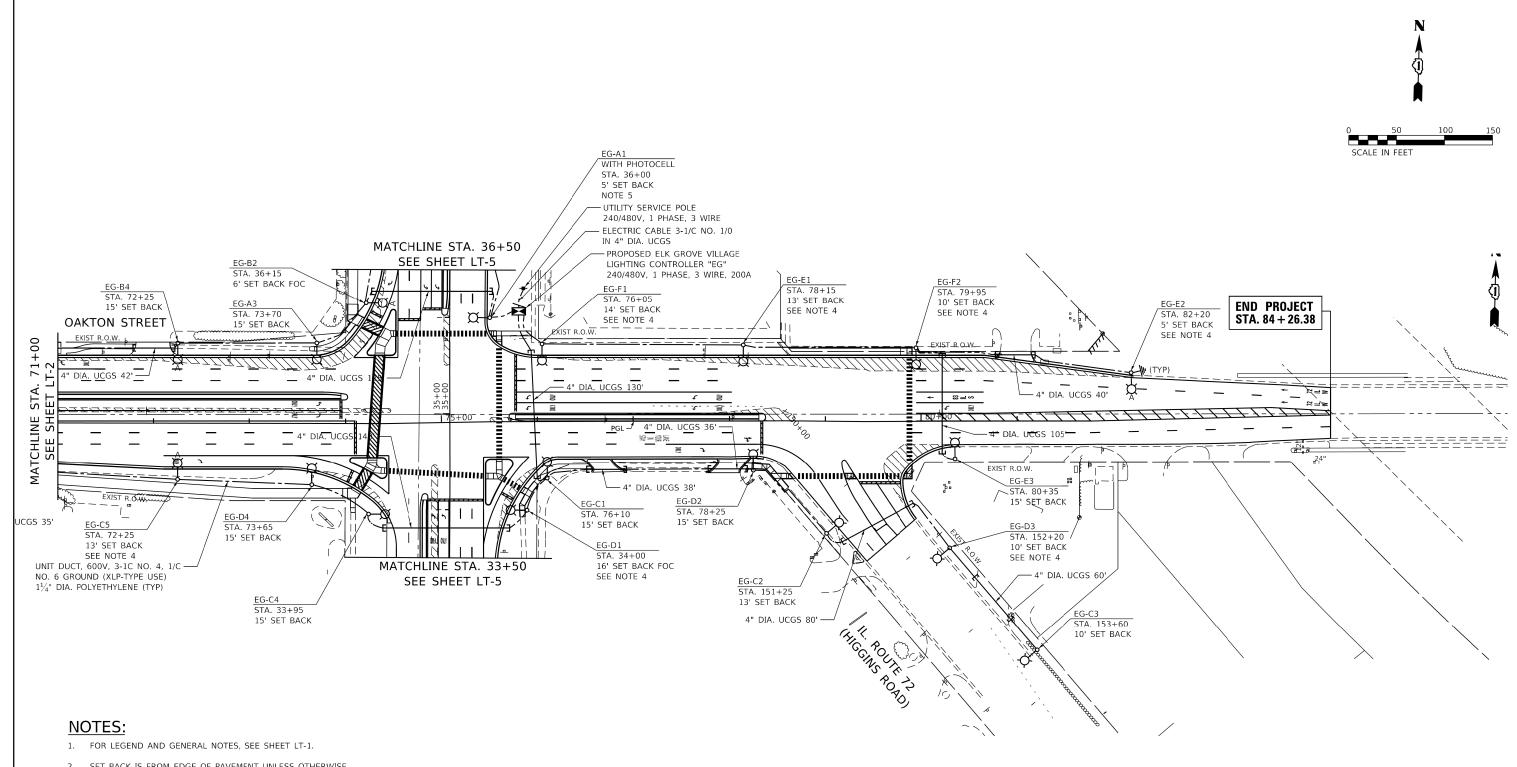
c.	USER NAME = \$USER\$	DESIGNED	-	BL	REVISED	-
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_	PLOT SCALE = \$SCALE\$	CHECKED	-	MB	REVISED	-
	PLOT DATE = \$DATE\$	DATE	-	03-05-2020	REVISED	-

STATE OF ILLINOIS	
DEPARTMENT OF TRANSPORTATION	

		PROPOSED				F.A RTI
IL. ROUTI	IL. ROUTE 72/IL. ROUTE 83 (IL. ROUTE 72(N) — IL. ROUTE 72(S)					
		<u>INCLUDING</u>	IL. ROL	JTE 83(S)		
SCALE: 1"=50'	SHEET	OF	SHEETS	STA. 59+14.39	TO STA. 71+00	

F.A.P. RTE.	SEC ⁻	ПОИ		COUNTY	TOTAL SHEETS	SHEE NO.
341	2011-	019-TS		соок	191	118
					NO. 60)P14
	ILLINOIS FE			ID PROJECT		

LT-2



- SET BACK IS FROM EDGE OF PAVEMENT UNLESS OTHERWISE INDICATED FROM FACE OF CURB (FOC).
- 3. UCGS STANDS FOR UNDERGROUND CONDUIT, GALVANIZED STEEL.
- 4. THE CONTRACTOR SHALL COORDINATE WITH COMED FOR LIGHT POLE PLACEMENT UNDER/ADJACENT TO TRANSMISSION AND DISTRIBUTION LINES.
- 5. THE 3-1/C #10, 1-1/C #10 GND SHALL BE WIRED BETWEEN EG-A1 PHOTOCELL AND THE LIGHTING CONTROLLER. ALL PHOTOCELL MATERIAL, INSTALLATION, ETC. SHALL BE INCLUDED IN PAY ITEM "LIGHTING CONTROLLER, SPECIAL." REFER TO SHEET LT-8 FOR LIGHTING CONTROLLER DETAILS. COST FOR THE UNIT DUCT, ASSOCIATE MATERIALS AND ITS INSTALLATION SHALL BE PAID FOR UNDER PAY ITEM "UNIT DUCT, 600V, 3-1/C NO. 10, 1/C NO. 10 GROUND, (XLP-TYPE USE), ¾" DIA. POLYETHYLENE.

THOTOGED ENGINEER TEARS	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
IL. ROUTE 72/1L. ROUTE 83 (IL. ROUTE 72(N) — IL. ROUTE 72(S)	341	2011-019-TS	соок	191	119
INCLUDING IL. ROUTE 83(S)			CONTRACT	NO 60)P14

TO STA. 84+26.38

SHEETS STA. 71+00

LT-3

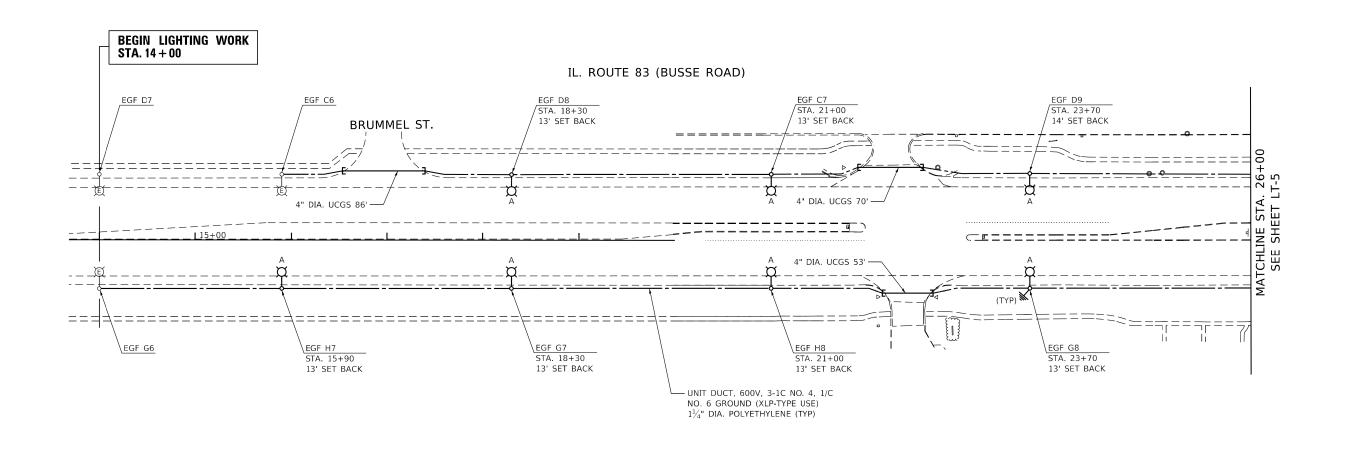
ILLINOIS FED. AID PROJECT

	OSEK NAME - POSEKP	DESIGNED -	DL	MENIOLD	-
•		DRAWN -	MD	REVISED	-
_	PLOT SCALE = \$SCALE\$	CHECKED -	МВ	REVISED	-
	PLOT DATE = \$DATE\$	DATE -	03-05-2020	REVISED	-

SCALE: 1"=50' SHEET







NOTES:

- 1. FOR LEGEND AND GENERAL NOTES, SEE SHEET LT-1.
- 2. SET BACK IS FROM EDGE OF PAVEMENT UNLESS OTHERWISE INDICATED FROM FACE OF CURB (FOC).
- 3. UCGS STANDS FOR UNDERGROUND CONDUIT, GALVANIZED STEEL.

AMES Engineering, Inconsulting Engineers
6330 Belmont Road, Unit 4B Downers Grove, IL 60516

/IES Engineering, Inc.	USER NAME
NSULTING ENGINEERS	
0 Belmont Road, Unit 4B	PLOT SCALE
vners Grove, IL 60516	PLOT DATE

	USER NAME = \$USER\$	DESIGNED -	BL	REVISED -	1
		DRAWN -	MD	REVISED -	İ
-	PLOT SCALE = \$SCALE\$	CHECKED -	MB	REVISED -	İ
	PLOT DATE = \$DATE\$	DATE -	03-05-2020	REVISED -	ĺ

STAT	E OI	F ILLINOIS
DEPARTMENT	OF	TRANSPORTATION

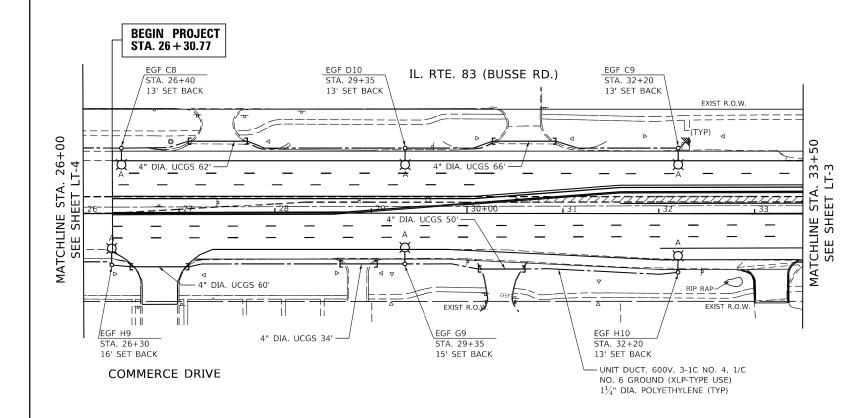
PROPOSED LIGHTING PLANS							
IL. ROUTE 72/1L. ROUTE 83 (IL. ROUTE 72(N) — IL. ROUTE 72(S) INCLUDING IL. ROUTE 83(S)							
		INCLUDING	IL. NU	JIL 03(3)			
SCALE: 1"=50'	SHEET	OF	SHEETS	STA. 14+00	TO STA. 26+00		

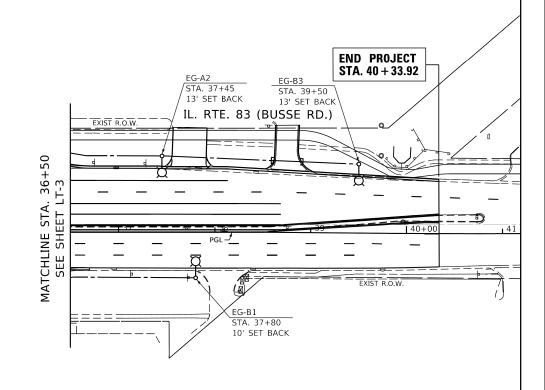
						-
F.A.P. RTE.	SEC ⁻	ПОИ		COUNTY	TOTAL SHEETS	SHE
341	2011-019-TS			COOK	191	12
			CONTRACT	NO. 60)P14	
		ILLINOIS	FED. A	D PROJECT		

LT-4









NOTES:

- FOR LEGEND AND GENERAL NOTES, SEE SHEET LT-1.
- 2. SET BACK IS FROM EDGE OF PAVEMENT UNLESS OTHERWISE INDICATED FROM FACE OF CURB (FOC).
- 3. UCGS STANDS FOR UNDERGROUND CONDUIT, GALVANIZED STEEL.

LT-	-5
OTAL	SHEET
HEETS	NO.

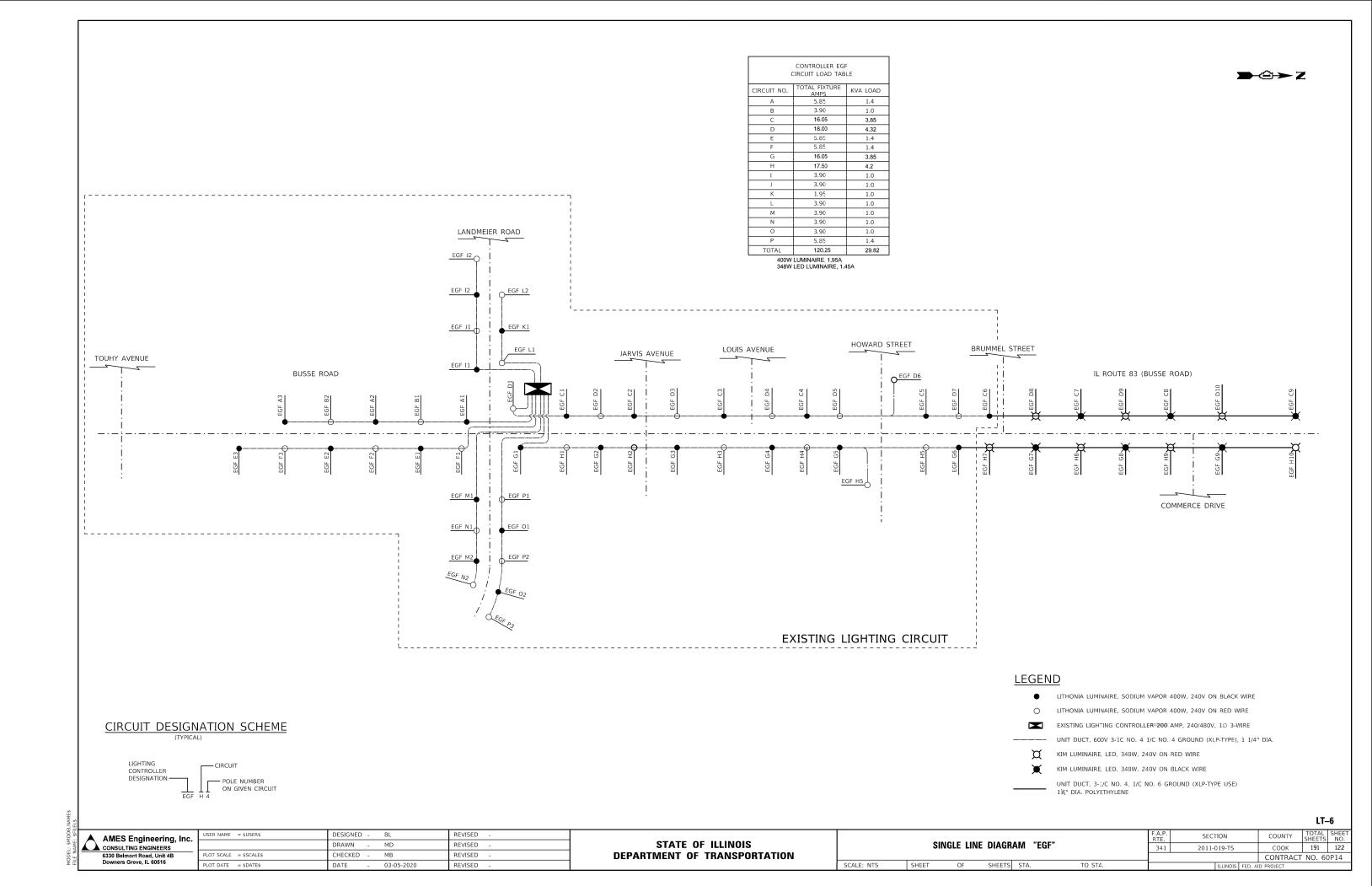
\wedge	AMES Engineering, Inc.
	CONSULTING ENGINEERS
	6330 Belmont Road, Unit 4B
	Downers Grove, IL 60516

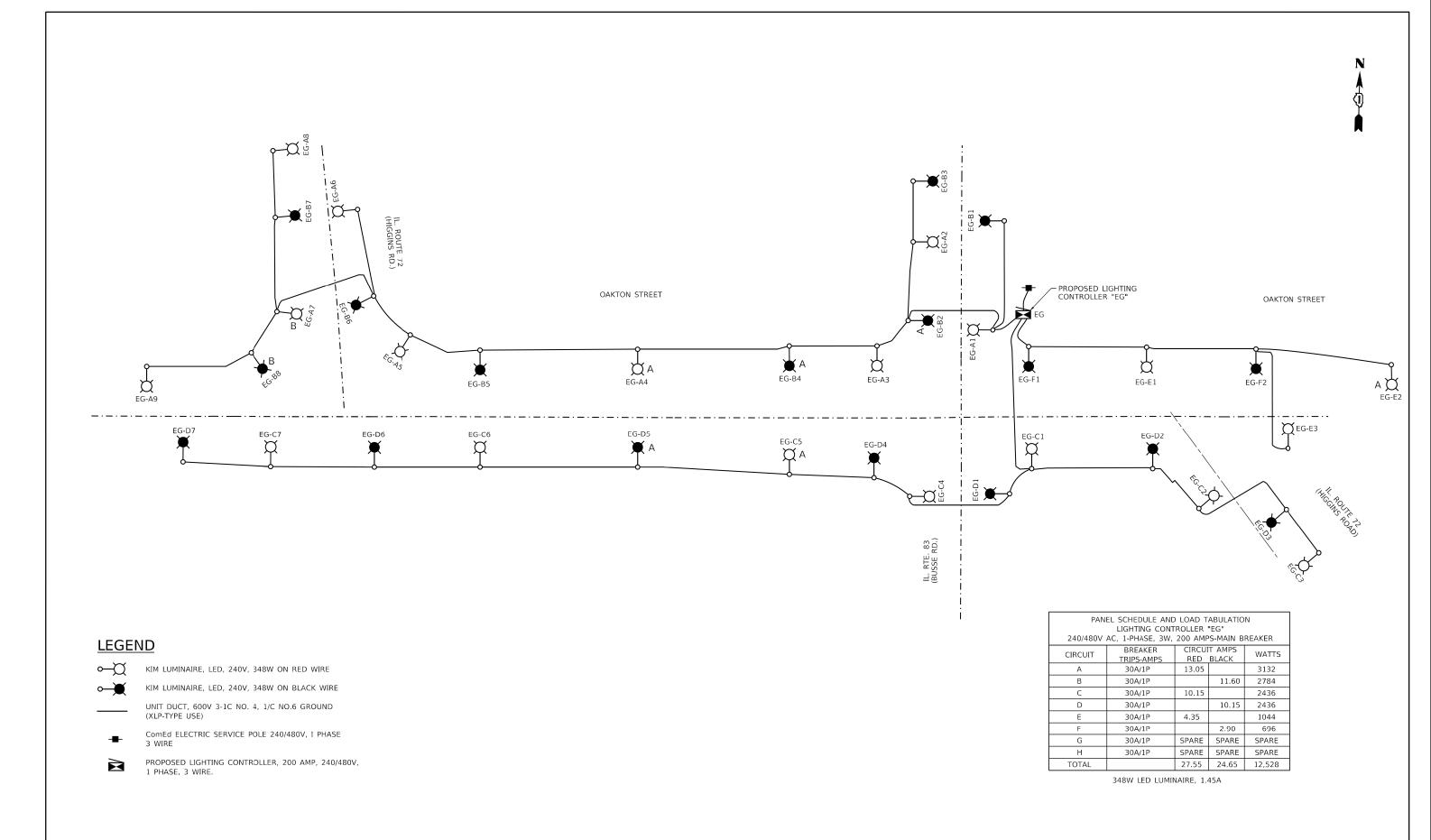
USER NAME = \$USER\$	DESIGNED	-	BL	REVISED	-
	DRAWN	-	MD	REVISED	-
PLOT SCALE = \$SCALE\$	CHECKED	-	MB	REVISED	-
PLOT DATE = \$DATE\$	DATE	-	03-05-2020	REVISED	-
	PLOT SCALE = \$SCALE\$	DRAWN PLOT SCALE = \$SCALE\$ CHECKED	DRAWN - PLOT SCALE = \$SCALES CHECKED -	DRAWN - MD PLOT SCALE = \$SCALE\$ CHECKED - MB	DRAWN - MD REVISED PLOT SCALE = \$SCALE\$ CHECKED - MB REVISED

STATI	E OF	ILLINOIS
DEPARTMENT	OF	TRANSPORTATION

				IG PLANS		F.A.P. RTE.	SEC ⁻	ПОИ	
IL. ROUTE 72/IL. ROUTE 83 (IL. ROUTE 72(N) — IL. ROUTE 72(S)							2011-	019-TS	
		<u>ncludin</u>	<u>G IL. ROL</u>	JTE 83(S)					
SCALE: 1"=50'	SHEET	OF	SHEETS	STA. 26+30.77	TO STA. 40+33.92			ILLINOIS	FED.

		COUNTY	TOTAL SHEETS	SHEE NO.			
		COOK	191	121			
CONTRACT NO. 60P14							
	FED. AID PROJECT						





A	AMES Enginee	r
	CONSULTING ENGINE	
		•

6330 Belmont Road, Unit 4B Downers Grove, IL 60516

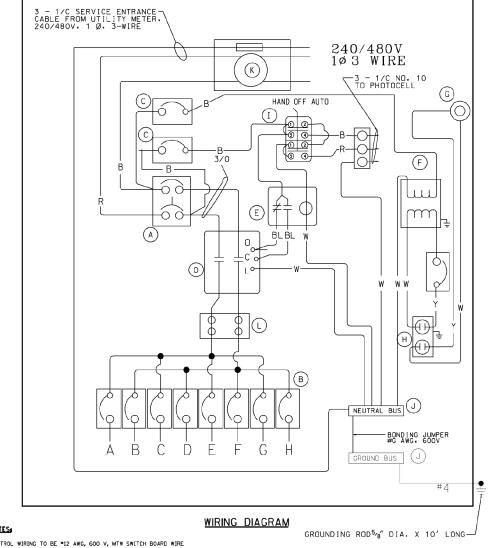
JSER NAME = \$USER\$ REVISED DESIGNED -DRAWN MD REVISED LOT SCALE = \$SCALE\$ CHECKED REVISED 03-05-2020 REVISED

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

SINGLE LINE DIAGRAM - PROPOSED "EG" SCALE: NTS OF SHEETS STA.

SECTION COUNTY COOK 191 123 2011-019-TS CONTRACT NO. 60P14

LT-7



PANEL EQUIPEMNT

BILL OF MATERIAL							
ITEM	QUANTITY	DESCRIPTION					
Α	_	MAIN CIRCUIT BREAKER, 2P, 600V, 200 AMP AT 480V					
В	8	CIRCUIT BREAKERS, IP, 30AMP AT 240V					
С	3	CONTROL CIRCUIT - CIRCUIT BREAKER, IP 15 AMP					
D	1	CONTACTOR, MECHANICALLY HELD, 240V COIL, 2P, 200 AMP					
E	1	AUXILARY CONTROL RELAY					
F	1	I.5 KVA, SINGLE PHASE, ENCAPSULATED TRANSFORMER					
G	1	INCANDESCENT LIGHTING FIXTURE W/ PULL CHAIN, 120V, 60 WATT					
н	1	20 AMP, 120V, DUPLEX RECEPTACLE, GFCI					
- 1	1	HAND-OFF- AUTO SWITCH					
J	2	GROUND AND NEUTRAL BUS, 1/4 × 1 × 12					
K	1	METER AND BASE, 200 AMP					
L	ı	SPLICE BLOCK					
1							

POWER WIRING RHH/RHW
CONTROL WIRING #12 MTW
NEUTRAL BUS COLOR CODED WHITE
GROUND BUS COLOR CODED GREEN

BL= BLUE W = WHITE B = BLACK R = RED Y = YELLOW

REMOTE MOUNTED PHOTOCELL ON NEAREST LIGHT POLE



SEE CONTROLLER DECAL DEFAIL

ELK GROVE VILLAGE

NAME AND LOGO WITH

x x x

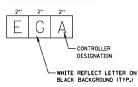
1'-9"

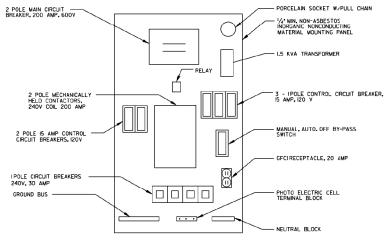
- PROPOSED CONCRETE PAD (SEE NOTE 5)

3 POINT

21/2" DIA. GAL. STEEL CONDUIT (SEE NOTE 7

- CONTROL WIRING TO BE #12 AWG, GOO V, MTW SWITCH BOARD WIRE OF COLOR SPECIFIED IN WIRING DIAGRAM, STANDARD COPPER.
- METER BOX SHALL BE MOUNTED ON THE SIDE OF CONTROL CABINET, NEAREST THE SERVICE POLE.
- 3. CONTROL CABINET DOOR SHALL FACE AWAY FROM THE ROADWAY.
- 4. THE CONTROLLER CABINET SHALL BE BLACK POWDER COATED. SEE CONTRACT SPECIFICATIONS FOR DETAILS.
- 5. A CONCRETE PAD. 36" X 36" X 3" MINIMUM SIZE. THE COST OF LABOR AND MATERIALS SHALL BE INCLUDED IN THE COST FOR LIGHTING CONTROLLER.
- NAME AND LOGO CONSIST OF WHITE REFELECTORIZED SHEETING ON BLACK BACKGROUND AS MANUFACTURED BY 3M. SIZE 24" X 10" WITH 2" LETTERING.
- METER BOX AND GALVANIZED CONDUIT SHALL BE BLACK POWDER COATED TO MATCH CONTROLLER.
- , THE PHOTOCELL SHALL BE INSTALLED ON THE POLE CLOSEST TO THE CONTROLLER AS SHOWN ON THE PLANS, THE COST TO FURNISH AND INSTALL THE PHOTOCELL SHALL BE INCLUDED IN THE COST OF THE LIGHTING CONTROLLER.
- SHOP DRAWINGS TO BE SUBMITTED TO ELK GROVE VILLAGE FOR APPROVAL. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.





CONTROLLER EQUIPMENT LAYOUT

AMES Engineering, Inc. CONSULTING ENGINEERS 6330 Belmont Road, Unit 4B Downers Grove, IL 60516

CABINET ALUM ALLOY SHEET 0,125" THICK

GROUND LINE -

J/2" DIA. PVC SCH. 80 —

٠	USER NAME = \$USER\$	DESIGNED -	-	BL	REVISED -
С.		DRAWN -	-	MD	REVISED -
-	PLOT SCALE = \$SCALE\$	CHECKED -	-	MB	REVISED -
	PLOT DATE = \$DATE\$	DATE -	-	03-05-2020	REVISED -

CONTROL CABINET - CONSOLE TYPE

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

SCALE:

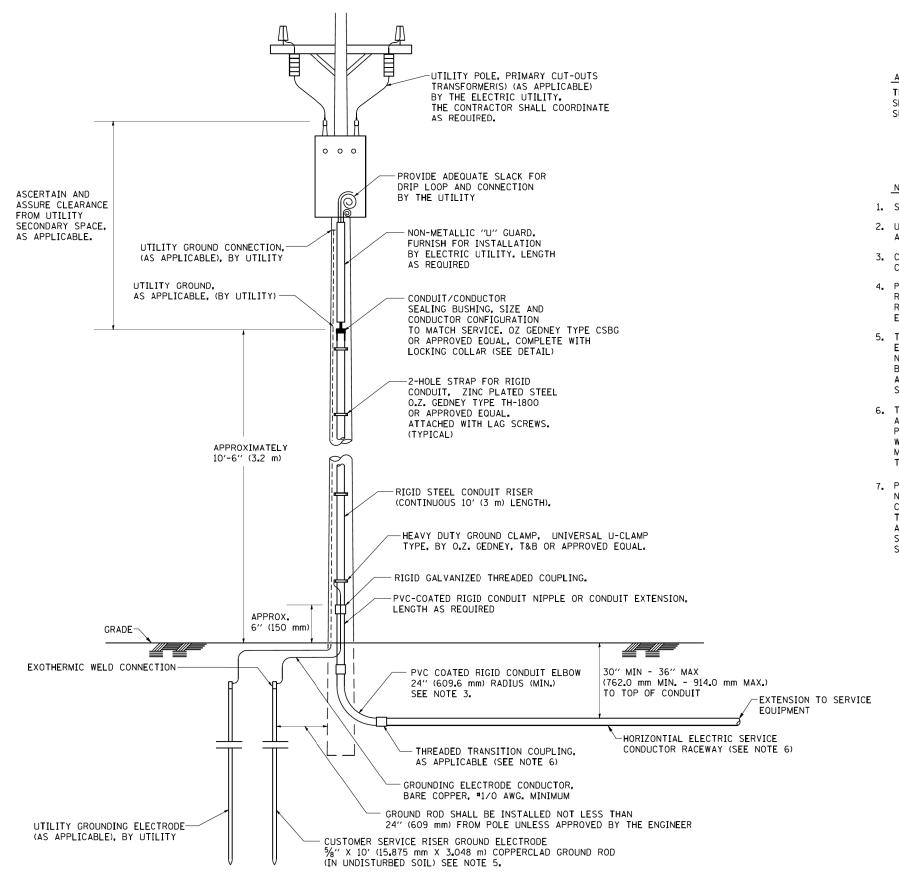
						F.A.P. RTE.	SEC	TION
LIGHTING C		CONTROLL	.er deta	AILS "EG"	341	2011-	019-TS	
	SHEET	OF	SHEETS	STA.	TO STA.			ILLINOIS

LT-8

COOK 191 124

CONTRACT NO. 60P14

COUNTY

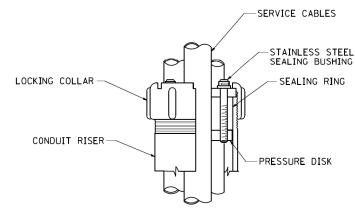


APPLICATION

THIS DETAIL APPLIES FOR LOW VOLTAGE ELECTRIC SERVICE (660 V OR LESS) FROM AN OVERHEAD UTILITY SUPPLY TO SEPERATLY-MOUNTED SERVICE EQUIPMENT.

NOTES

- 1. SERVICE VOLTAGE SHALL BE AS INDICATED ELSEWHERE IN THE DRAWINGS.
- 2. UNLESS OTHERWISE INDICATED, ITEMS AND WORK SHALL BE INCLUDED AND PAID AS PART OF THE ELECTRIC UTILITY SERVICE INSTALLATION PAY ITEM.
- 3. CONDUIT AND CONNECTOR DIAMETER SHALL MATCH THE DIAMETER OF THE SERVICE CONDUCTOR RACEWAY AS INDICATED ON THE PLANS.
- 4. PVC COATED RACEWAYS AND ACCESSORIES SHALL BE CAREFULLY INSTALLED WITH MFR RECOMMENDED TOOLS AND PROCEDURES TO AVOID DAMAGE. ANY DAMAGE SHALL BE REPAIRED WITH COMPATIBLE PVC TOUCH-UP MATERIAL TO THE SATISFACTION OF THE ENGINEER OR THE DAMAGED MATERIAL SHALL BE REPLACED AT NO ADDITIONAL COST.
- 5. THE CONTRACTOR SHALL OBTAIN INSPECTION AND APPROVAL BY THE ENGINEER OF SERVICE RISER GROUND ELECTRODE, RISER ELBOW, NIPPLE AND CONNECTION TO SERVICE CONDUCTOR RACEWAY EXTENSION BEFORE BACKFILL AND SHALL ALSO OBTAIN INSPECTION OF SERVICE RISER AND SEALING BUSHING BEFORE UTILITY "U" GUARD INSTALLATION AND
- 6. THE HORIZONTAL ELECTRIC SERVICE CONDUCTOR RACEWAY SHALL BE AS INDICATED AND SHALL BE MEASURED SEPARATELY FOR PAYMENT. WHEN THE RACEWAY IS PVC-COATED RIGID GALVANIZED STEEL, THE COUPLING SHALL BE THE SAME. WHEN THE RACEWAY IS PVC CONDUIT (IN CONCRETE), THE COUPLING SHALL BE A METALIC TO NON METALIC ADAPTER. WHEN THE RACEWAY IS ENCASED IN CONCRETE, THE CONCRETE SHALL EXTEND TO COVER THE COUPLING.
- 7. PLANS AND DETAILS INDICATE THE GENERAL NATURE AND REQUIREMENTS. THEY DO NOT SHOW EVERY ACCESSORY AND ATTACHMENT, AND THEY DO NOT RELIEVE THE CONTRACTOR OF THE REQUIREMENTS OF THE SPECIFICATIONS AND SPECIAL PROVISIONS TO ASCERTAIN UTILITY REQUIREMENTS AND TO COORDINATE ACCORDINGLY, FURNISHING ALL ITEMS AND WORK NOT PROVIDED BY THE UTILITY, BUT NECESSARY FOR A COMPLETE SERVICE INSTALLATION IS REQUIRED AND SHALL BE INCLUDED IN THE ELECTRIC UTILITY SERVICE INSTALLATION PAY ITEM.



SEALING BUSHING DETAIL

LT-9

AMES Engineering, Inc. CONSULTING ENGINEERS 6330 Belmont Road, Unit 4B Downers Grove, IL 60516

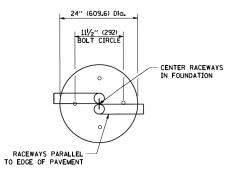
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STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION** **ELECTRIC SERVICE INSTALLATION AERIAL REMOTE DISCONNECT** SHEETS STA. TO STA.

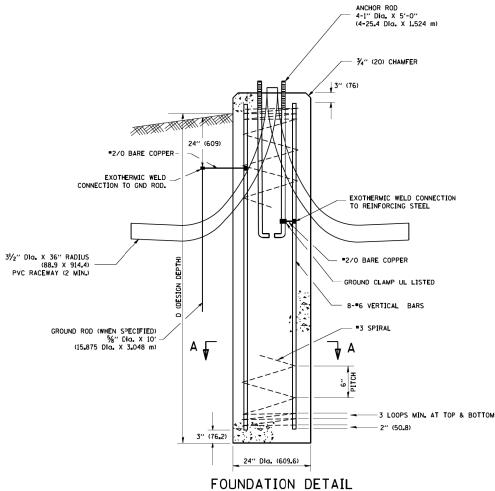
SECTION COUNTY COOK 191 125 CONTRACT NO. 60P14 BE-220

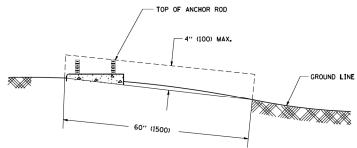
LIGHT POLE FOUNDATION DEPTH TABLE 30 FT. (9.144 m) TO 35 FT. (10.668 m) MOUNTING HEIGHT

		. ,
COL CONSTITUE	DESIGN DEPTH "	O" OF FOUNDATION
SOIL CONDITIONS	SINGLE ARM POLE	TWIN ARM POLE
SOFT CLAY Ou = 0.375 TON/SO. FT.	11'-0'' (3 _• 35 m)	12′-8″ (3₌85 m)
MEDIUM CLAY Ou = 0.75 TON/SO.FT	9'-0'' (2.74 m)	14'-10'' (4 . 52 m)
STIFF CLAY Ou = 1.50 TON/SO. FT.	7'-6" (2 . 29 m)	8'-7" (2,61 m)
LOOSE SAND Ø = 34°	9'-6'' (2 . 90 m)	10'-7'' (3 . 22 m)
MEDIUM SAND Ø = 37.5°	9'-0'' (2.74 m)	9'-10'' (2.99 m)
DENSE SAND Ø = 40°	8'-3'' (2 . 51 m)	9'-7'' (2 . 91 m)



TOP VIEW





FOUNDATION EXTENSION DETAIL

6" (152.4) THREADED

5%" T. X 4" DIA. WASHER, TACK WELDED x 5′ 0′ x 1.524

DIA.

1.. 25.4

5" (127.0)

ANCHOR BOLT DETAIL

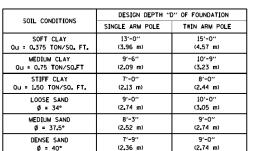
3" 18" 3" 4 SPIRAL

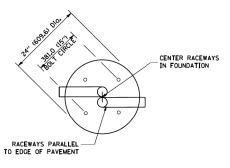
SECTION A-A

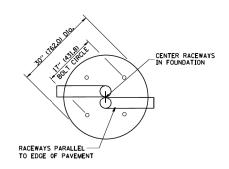
<u>NOTES</u>

- 1. ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.
- 2. THE ANCHOR RODS AND RACEWAYS SHALL BE PROPERLY SECURED IN PLACE BEFORE THE CONCRETE IN PLACED.
- 3. THE FOUNDATION SHALL NOT PROTRUDE WORE THAN 4 IN. (100 mm) ABOVE THE FINISHED GRADE WITHIN A 60 IN. (1.5 m) CHORD ACROSS THE FOUNDATION, WITH ANCHOR RODS INCLUDED, IN ACCORDANCE WITH ASSHTO 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 REQUIRE 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 3/-1N. (20 mm).
- 6. THE CONCRETE SHALL BE CLASS SI. CONCRETE SHALL CURE ACCORDING TO ARTICLE 1020.13 BEFORE LIGHT POLES ARE INSTALLED.
- 7. 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 DUTS ACCORDING TO ASTM A 194 2H OR ASTM A 563 DH, AND WASHERS SHALL BE
- 9. ANCHOR RODS, NUTS AND WASHERS SHALL BE COMPLETELY GALVANIZED BY EITHER THE HOT-DIPPED PROCESS CONFORMING WITH ASSHTO 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 ASTM F 1136.
- 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.
- 11. ANCHOR RODS SHALL PROJECT 2¾4" (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 REDUIREMENTS 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.

LIGHT POLE FOUNDATION DEPTH TABLE 40 FT. (12.192 m) TO 47.5 FT. (14.478 m) MOUNTING HEIGHT

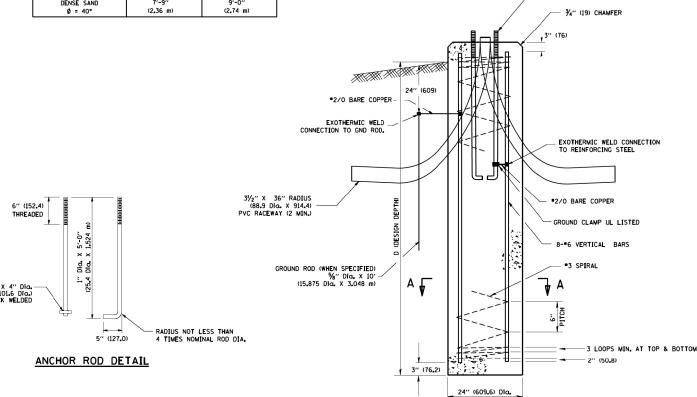




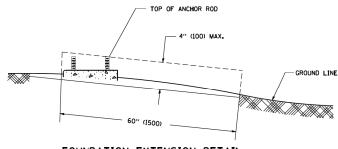


TOP VIEW TOP VIEW

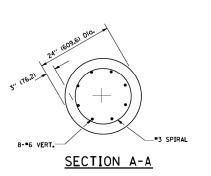
ANCHOR ROD 4-1" Dia X 5'-0" (4-25.4 Dia X 1.524 m)

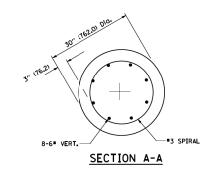












- ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.
- THE ANCHOR RODS AND RACEWAYS SHALL BE PROPERLY SECURED IN PLACE BEFORE THE CONCRETE IN PLACED.
- 3. THE FOUNDATION SHALL NOT PROTRUDE MORE THAN 100MM (4 IN.) ABOVE THE FINISHED GRADE WITHIN A 60 IN. (1.5 m) CHORD ACROSS THE FOUNDATION, WITH ANCHOR RODS INCLUDED, IN ACCORDANCE WITH ASHTO 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 REQUIRE THE USE OF A LINER TO FORM THE HOLE, THE LINER SHALL BE WITHDRAWN AS THE CONCRETE IS DEPOSITED.
- 5. 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
- 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 ASTM F 1136.
- 10. THE ANCHOR RODS SHALL BE THREADED A MINIMUM OF 6 INCHES (150 mm) WITH A WINIMUM OF 3 INCHES (75 mm) OF THREADED ANCHOR ROD EMBEDDED IN THE FOUNDATION.
- 11. ANCHOR RODS SHALL PROJECT 2¾" (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.

AMES Engineering, Inc. CONSULTING ENGINEERS 6330 Belmont Road, Unit 4B Downers Grove, IL 60516

JSER NAME = \$USER\$ DESIGNED -REVISED DRAWN MD REVISED REVISED LOT SCALE = \$SCALE\$ CHECKED PLOT DATE = \$DATE\$ 03-05-2020 REVISED

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

LIGHT POLE FOUNDATION 40' (12.192 m) to 47 1/2"(14.478 m) M.H. 15" (381 mm) BOLT CIRCLE SHEETS STA.

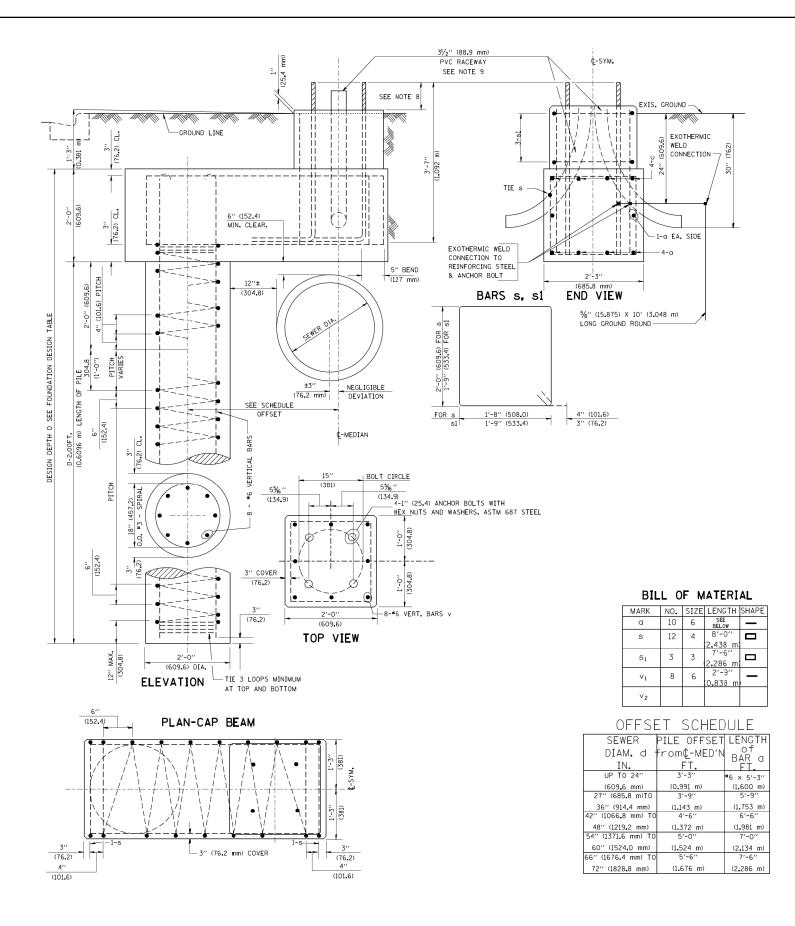
SECTION COUNTY COOK 191 127 BE-301 CONTRACT NO. 60P14

FOUNDATION DESIGN TABLE

	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 23/4" (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.



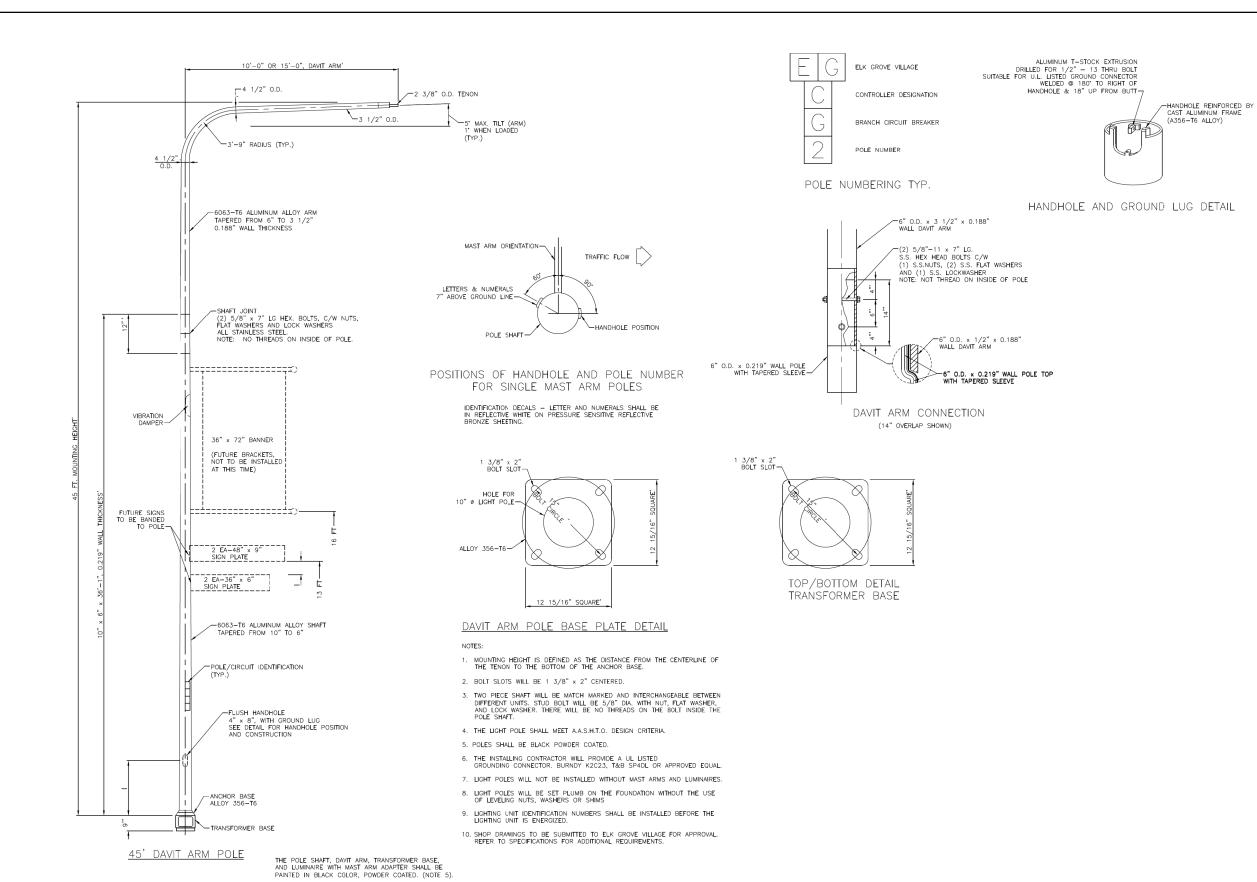
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		DRAWN	-	MD	REVISED -
-	PLOT SCALE = \$SCALE\$	CHECKED	-	MB	REVISED -
	PLOT DATE = \$DATE\$	DATE	-	03-05-2020	REVISED -

	LIGHT	POLE FOU	NDATION	N OFFS	ET	F.A.P. RTE.	SEC ⁻	TION	
40' (12 192 m)	to 47	1/2"/14 478	m\ M H 1	5" /391	mm) BOLT CIRCLE	341	2011-	019-TS	
. , ,	10 47	VZ (17.770 I	iii, ivi.ii.	13 (301	IIIII, BOET OINGEL		BE-	310	
SCALE:	SHEET	OF	SHEETS	STA.	TO STA.			ILLINOIS	FED. AI

COOK 191 128

CONTRACT NO. 60P14

COUNTY



AMES Engineering, Inc. A CONSULTING ENGINEERS 6330 Belmont Road, Unit 4B Downers Grove, IL 60516

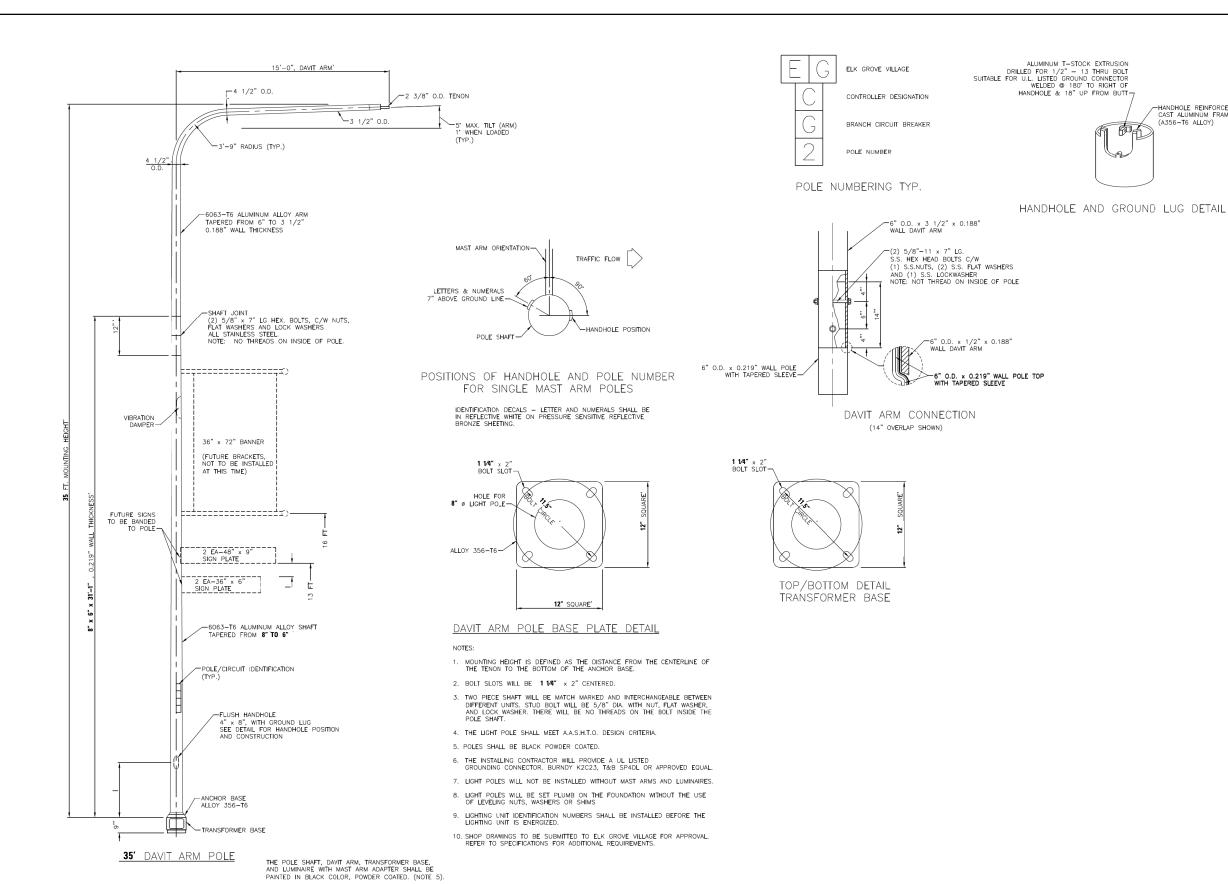
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STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

SCALE:

SHEET

										LT-	-13	
	AC' DAVIT LIGHT DOLE AND DETAILS					F.A.P. RTE.	SECT	ION		COUNTY	TOTAL SHEETS	SHEET NO.
45	45' DAVIT LIGHT POLE AND DETAILS					341	2011-0	19-TS		COOK	191	129
										CONTRACT	NO. 60)P14
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LT-14

AMES Engineering, Inc. A CONSULTING ENGINEERS 6330 Belmont Road, Unit 4B Downers Grove, IL 60516

JSER NAME = \$USER\$ DESIGNED -REVISED BL DRAWN MD REVISED LOT SCALE = \$SCALE\$ CHECKED REVISED PLOT DATE = SDATES DATE 03-05-2020 REVISED

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

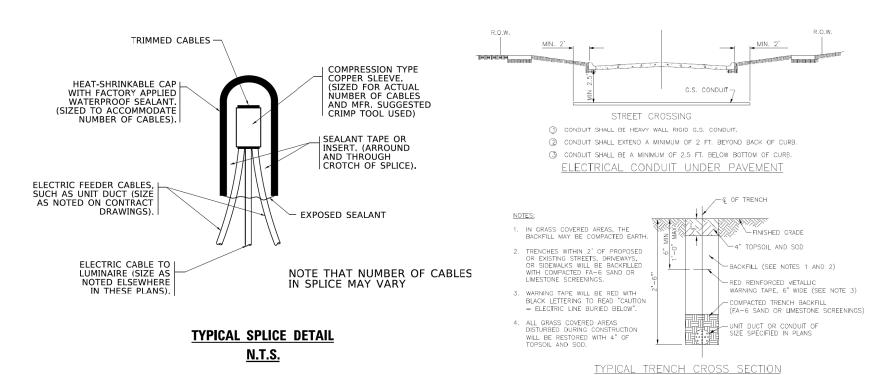
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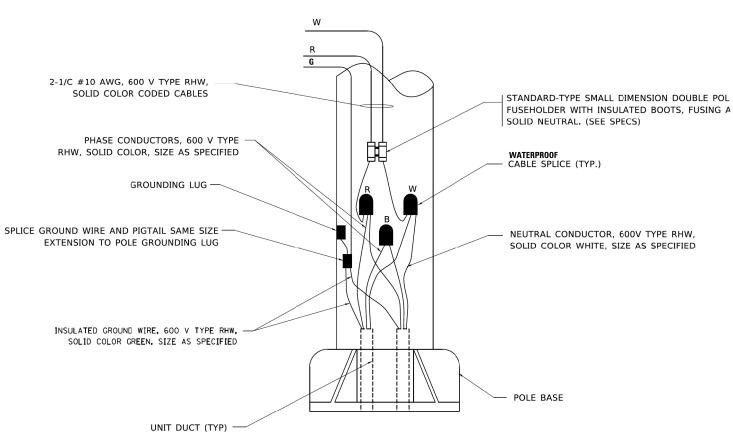
SHEET

SECTION COUNTY 35' DAVIT LIGHT POLE AND DETAILS 341 2011-019-TS COOK 191 130 CONTRACT NO. 60P14 SHEETS STA. TO STA

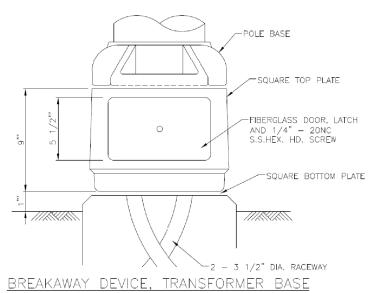
-HANDHOLE REINFORCED BY CAST ALUMINUM FRAME

(A356-T6 ALLOY)





POLE WIRING DETAIL <u>N.T.S.</u>



THE BREAKAWAY TRANSFORMER BASE SHALL HAVE A LISTING OF APPROVAL BY FHWA COMPLIANCE TO 1985 AS OTHER OF THE PROPERTY OF THE BREAKAWAY OF THE BR

SHEET

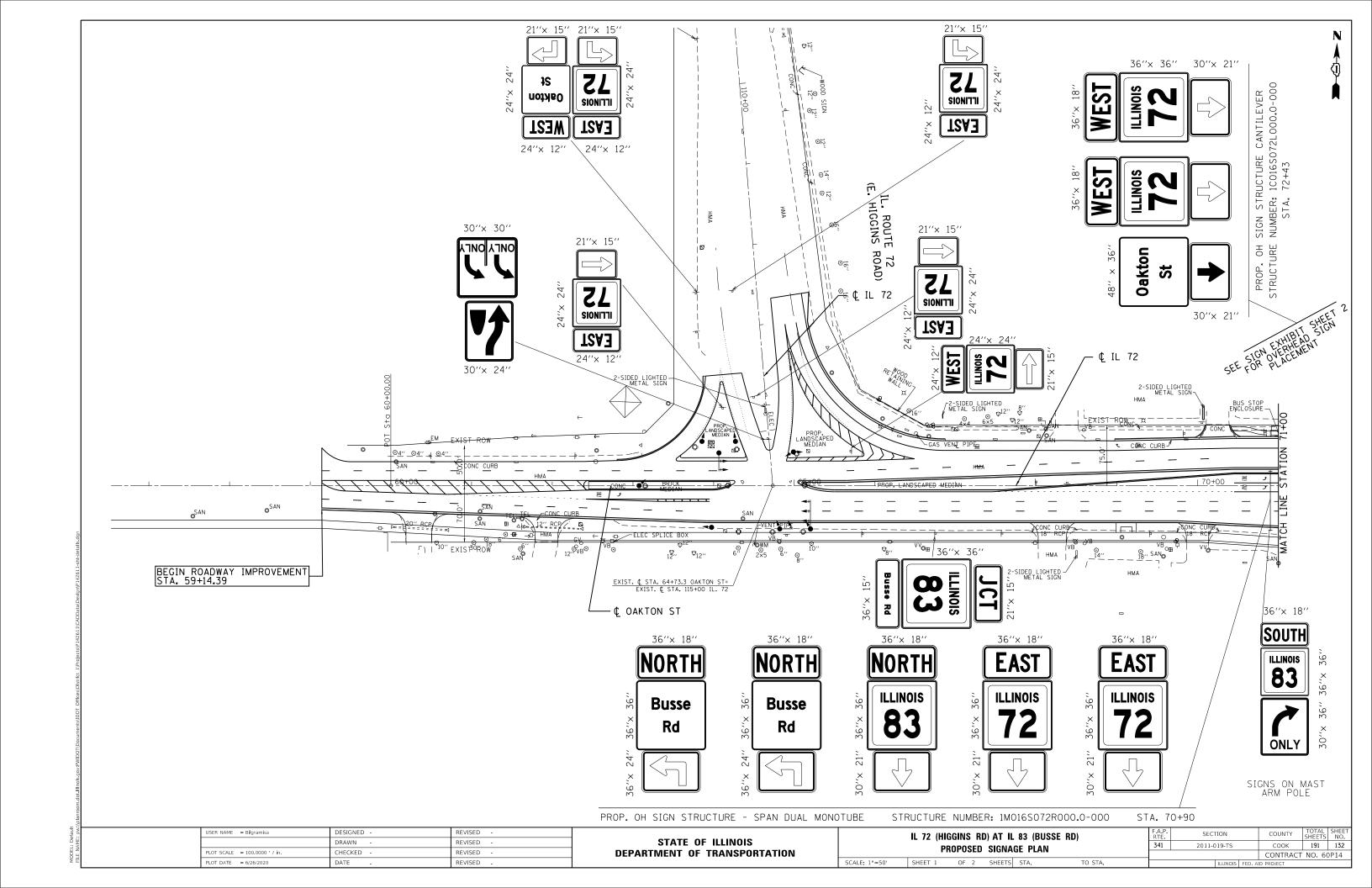
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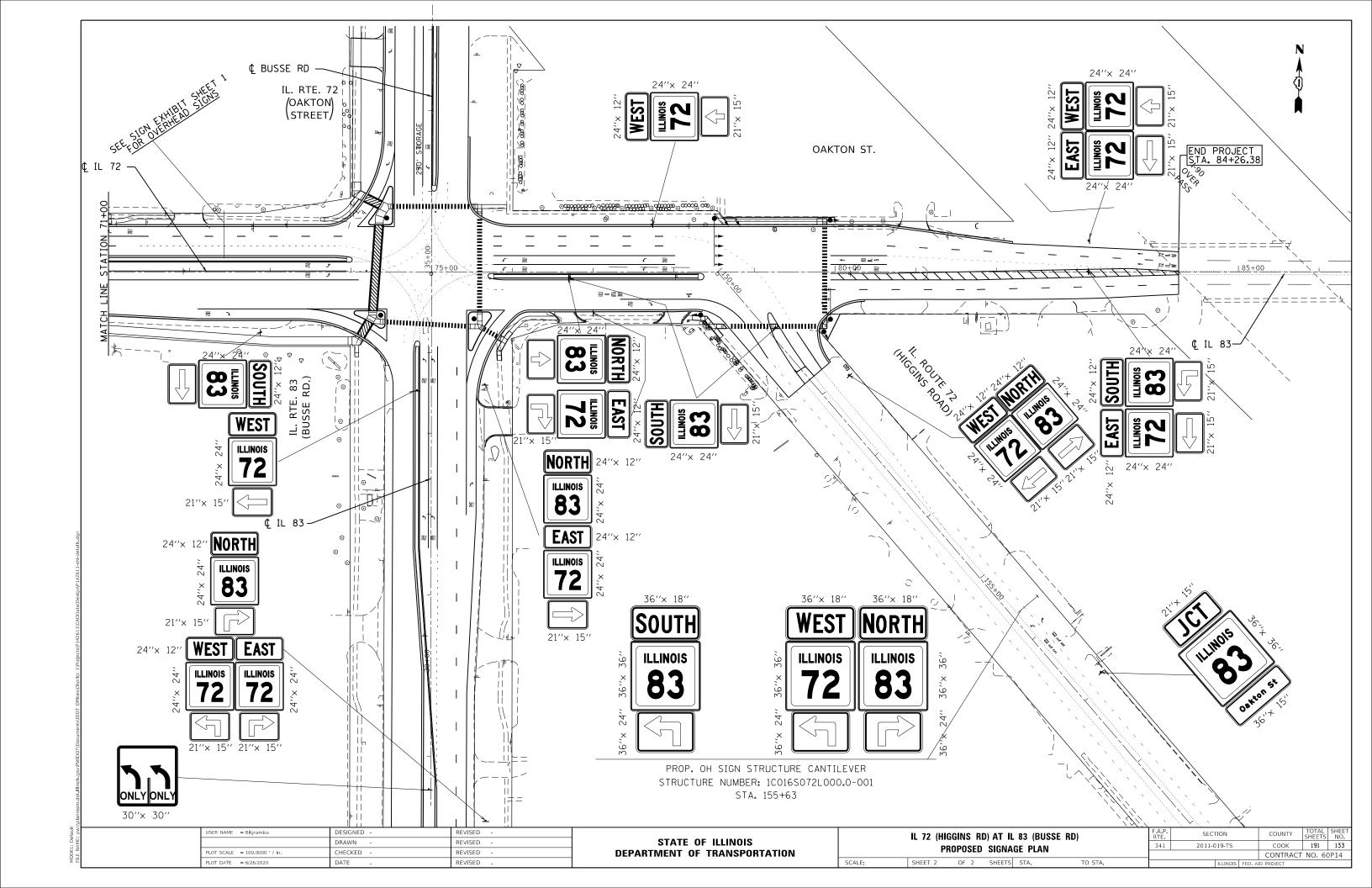
AMES Engineering, Inc. **A** CONSULTING ENGINEERS 6330 Belmont Road, Unit 4B Downers Grove, IL 60516

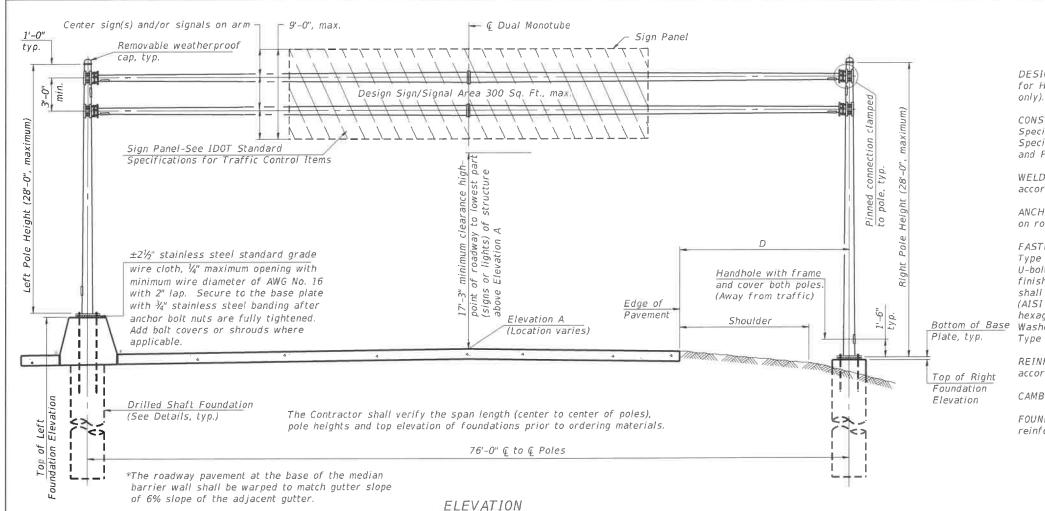
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STATI	E OF	ILLINOIS
DEPARTMENT	OF	TRANSPORTATION

										LT	–15
MISC. I	ELECTRIC	AL DETAIL	LS		F.A.P. RTE.	SEC ⁻	TION		COUNTY	TOTAL SHEETS	SHEET NO.
	CHEET	. Λ			341	2011-	019-TS		COOK	191	131
SHEET A							CONTRAC	T NO. 6	0P14		
OF	SHEETS	STA.		TO STA.			ILLINOIS	FED. Al	D PROJECT		







Looking at face of signs.

Looking upstation for structures with signs both sides.

GENERAL NOTES

DESIGN: Current (at time of letting) AASHTO Standard Specifications for Structural Supports for Highway Signs, Luminaires and Traffic Signals (Fatigue Category II – natural wind gust only).

CONSTRUCTION: Current (at time of letting) Illinois Department of Transportation Standard Specifications for Road and Bridge Construction, Supplemental Specifications and Recurring Special Provisions. ("Standard Specifications") All references to "Mast Arm Assembly and Pole" are applicable, unless otherwise noted.

WELDING: All welds to be continuous unless otherwise shown. All welding to be done in accordance with current AWS D1.1 Structural Welding Code and the Standard Specifications.

ANCHOR RODS: Shall conform to ASTM F1554 Grade 105. No welding shall be permitted on rods.

FASTENERS: All connection bolts shall be High Strength Bolts M164, Galvanize M232 (A153), Type 3, or stainless steel heavy hex conforming to ASTM A193, Grade B8 or B8M, Class 1. U-bolts shall be produced from ASTM A276 Type 304, 304L, 316 or 316L, Condition A, cold finished, or an equivalent material acceptable to the Engineer. Nuts for stainless steel bolts shall be stainless steel conforming to ASTM A194, Grade 8 (AISI Type 304) or Grade 8F (AISI Type 303). All nuts shall be "locknuts" with nylon or steel inserts and semifinished hexagonal heads equivalent to the finished heavy hex series of the American National Standard. Washers for stainless steel bolts shall be stainless steel conforming to ASTM A240, Type 302 or 304.

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

CAMBER: Minimum AASHTO camber = L / 1000 + dead load camber

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



SIGN STRUCTURE DATA TABLE

Structure	Station				Actual			Left Founda	ation				Right Foundati	on		Class SI
Structure Number		Station	Station	Station	€ to € Poles	Elevation A	Dimension D	Sign/Signal Area	gnal Elevation Elev.	Elevation Elev. Top Bottom A B			F	Concrete (Cu. Yds.)		
1M016S072R000.0-000	70+90	76'	680.08	8.64	286 SF	683.30	665.72	4.58'	13'	17.58'	679.04	665.87	0.17'	13'	13.17'	8.0

EXP. DATE: 11/30/2020

DATE SIGNED: 06/08/14

BILL OF MATERIAL

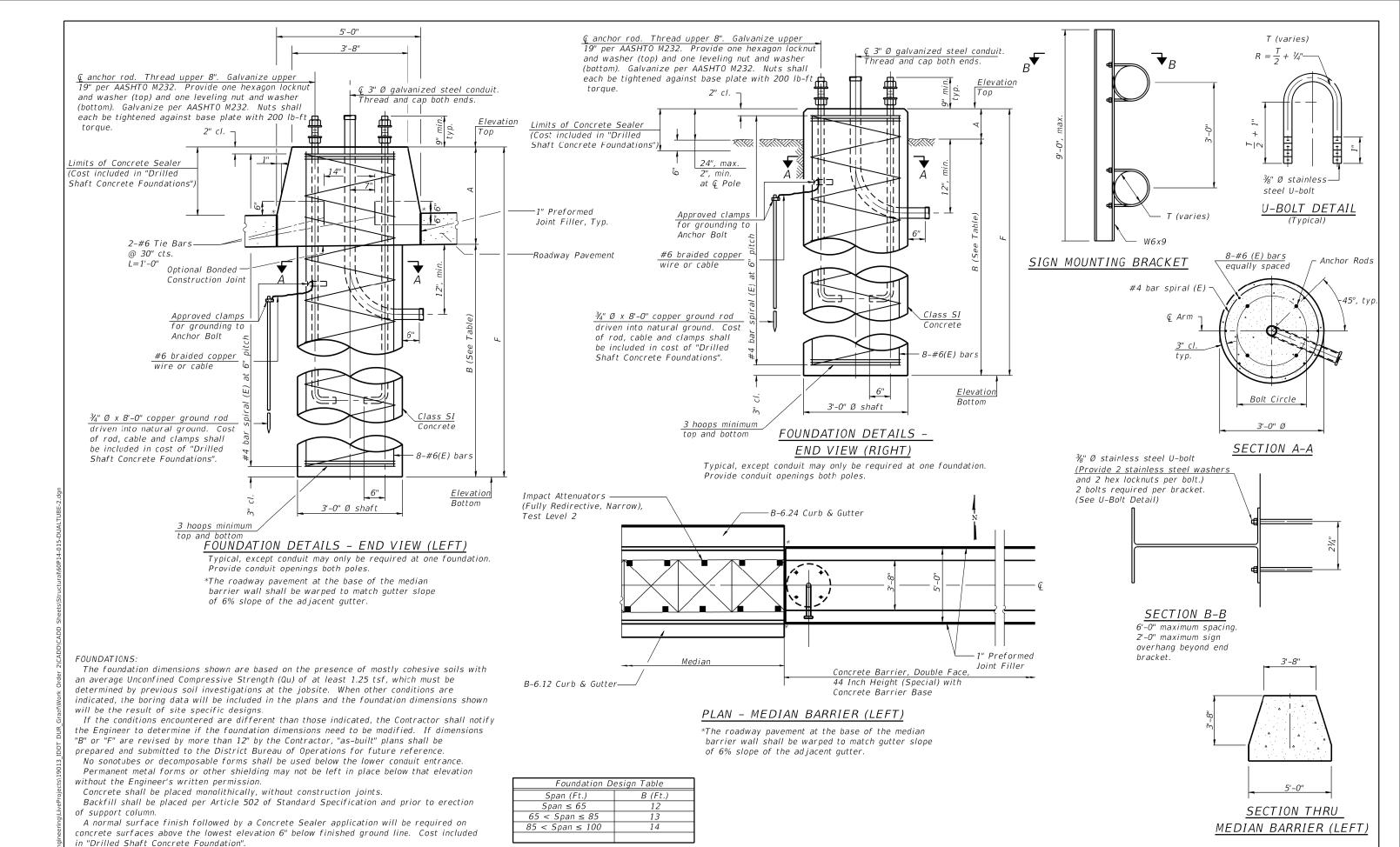
F 4	
Foot	76
Cu. Yds.	8.0
	Cu. Yas.

DUAL

A A	С	¢	u	r	а	t	е	
		GF	ROUP	, IN	c.			

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	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
MONOTUBE SIGN STRUCTURE	341	2011-019-TS	соок	191	134
			CONTRA	CT NO. 6	0P14
SHEET OF SHEETS		ILLINOIS FED AL	PROJECT		



Accurate

 USER NAME =
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 REVISED

 PLOT SCALE =
 DRAWN - JN
 REVISED

 PLOT DATE =
 CHECKED - JMT
 REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

 DUAL MONOTUBE
 SIGN
 STRUCTURE
 F.A.P. RTE. RTE. 341
 SECTION
 COUNTY SHEETS
 TOTAL SHEETS NO. 341
 2011-019-TS
 COOK
 191
 135

 SHEET
 OF
 SHEETS
 ILLINOIS FED. AID PROJECT
 FED. AID PROJECT

	COUNTYCook	RILLING	ME	THOD	_		HSA/Rotary HAMMER TYPE		OME A	٩ı
	STRUCT. NO. SB-01		D E P T H	B L O W S	U c s Qu	M O I S T	Surface Water Elev. ft Stream Bed Elev. ft Groundwater Elev.: First Encounter Dry to -10.0' ft Upon Completion n/a ft	D E P T H	B L O W S	
	Ground Surface Elev. 680.60	0 ft	(ft)	(/6")	(tsf)	(%)	After Hrs. ft	(ft)	(/6")	ŀ
	3.0" ASPHALT	_/ 680.35	_				CLAY-gray-medium stiff to stiff (continued)	_		T
	SILTY CLAY LOAM with Stone-dark brown, gray &		_	3			(continued)	_	3	
	plack-very stiff to hard (Fill)		_	5	4.0	17		_	3	t
			_	8	P	l ''		_	6	l
			_					_		t
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				3					3	L
			_	5 7	2.0 P	15		_	3 6	Γ
		075.40	5	-	P			-25	0	╀
Ć	CLAY LOAM-brown & gray-very	675.10	-					_		l
	stiff			4					3	l
			_	5	2.1	18		_	4	Τ
			_	6	В			_	6	1
			_					_		
			_	4				_	3	l
			_	6	2.3	18			5	t
			-10	7	В			-30	8	
		670.10								Т
(CLAY-gray-stiff							_		l
			_	3	1.5	18		. –		l
			_	3	P	10	SILTY CLAY LOAM with)		l
		667.60	_	_	_		Gravel-gray-medium dense	_		l
	SILTY CLAY LOAM with									
	Gravel-gray-medium dense			4					9	Ļ
			_	6 8		15		_	10 12	
		665.10	-15	3			1	-35	12	+
	CLAY-gray-medium stiff to stiff	003.10	-					_		
				3						
			_	4	0.9	19	643.60)		
			_	9	В		CLAY LOAM-gray-stiff to very stiff	_		
			_					_		
			_	3				_	5	
			_	3	1.3	24	1	_	5	t
			-20	4	P			-40	5	1

GSI Job No. __19120-A

Page <u>1</u> of <u>2</u>

Date ___1/22/20

SOIL BORING LOG

Geo Services, Inc. GSI Job No. __19120-A_ **SOIL BORING LOG** Page <u>2</u> of <u>2</u> Date __1/22/20_ ROUTE IL Rte 72 & IL Rte 83 DESCRIPTION New Sign Trusses on IL Rte 72 & IL Rte 83 LOGGED BY TC LOCATION NE 1/4, SEC. 27, TWP. T41N, RNG. R11E, 3rd PM | STRUCT. NO. | STATION | STATION | STATION | STRUCT. NO. | SB-01 | T | W | STRUCT. NO. | STATION | T | W | STRUCT. NO. | STATION | STRUCT. NO. | STATION | STRUCT. NO. | STRUCT. NO. | STRUCT. NO. | STRUCT. NO. | STRUCT. NO. | STRUCT. NO. | STRUCT. NO. | STRUCT. NO. | STRUCT. NO. | STRUCT. NO. | STRUCT. NO. | STRUCT. NO. | STRUCT. NO. | STRUCT. NO. | STRUCT. NO. | STRUCT. NO. | STRUCT. NO. | STRUCT. NO. | STRUCT. NO. | STRUCT. NO. | STRUCT. NO. | STRUCT. NO. | STRUCT. NO. | STRUCT. NO. | STRUCT. NO. | STRUCT. NO. | STRUCT. NO. | STRUCT. NO. | STRUCT. NO. | STRUCT. NO. | STRUCT. NO. | STRUCT. NO. | STRUCT. NO. | STRUCT. NO. | STRUCT. NO. | STRUCT. NO. | STRUCT. NO. | STRUCT. NO. | STRUCT. NO. | STRUCT. NO. | STRUCT. NO. | STRUCT. NO. | STRUCT. NO. | STRUCT. NO. | STRUCT. NO. | STRUCT. NO. | STRUCT. NO. | STRUCT. NO. | STRUCT. NO. | STRUCT. NO. | STRUCT. NO. | STRUCT. NO. | STRUCT. NO. | STRUCT. NO. | STRUCT. NO. | STRUCT. NO. | STRUCT. NO. | STRUCT. NO. | STRUCT. NO. | STRUCT. NO. | STRUCT. NO. | STRUCT. NO. | STRUCT. NO. | STRUCT. NO. | STRUCT. NO. | STRUCT. NO. | STRUCT. NO. | STRUCT. NO. | STRUCT. NO. | STRUCT. NO. | STRUCT. NO. | STRUCT. NO. | STRUCT. NO. | STRUCT. NO. | STRUCT. NO. | STRUCT. NO. | STRUCT. NO. | STRUCT. NO. | STRUCT. NO. | STRUCT. NO. | STRUCT. NO. | STRUCT. NO. | STRUCT. NO. | STRUCT. NO. | STRUCT. NO. | STRUCT. NO. | STRUCT. NO. | STRUCT. NO. | STRUCT. NO. | STRUCT. NO. | STRUCT. NO. | STRUCT. NO. | STRUCT. NO. | STRUCT. NO. | STRUCT. NO. | STRUCT. NO. | STRUCT. NO. | STRUCT. NO. | STRUCT. NO. | STRUCT. NO. | STRUCT. NO. | STRUCT. NO. | STRUCT. NO. | STRUCT. NO. | STRUCT. NO. | STRUCT. NO. | STRUCT. NO. | STRUCT. NO. | STRUCT. NO. | STRUCT. NO. | STRUCT. NO. | STRUCT. NO. | STRUCT. NO. | STRUCT. NO. | STRUCT. NO. | STRUCT. NO. | STRUCT. NO. | STRUCT. NO. | STRUCT. NO. | STRUCT. NO. | STRUCT. NO. | STRUCT. NO. | STRUCT. NO. | STRUCT. NO. | STRUCT. NO. | STRUCT. NO. | STRUCT. NO. | STRUCT. NO. | STRUCT. NO. | STRUCT. NO. | STRUCT. NO. | STRUCT. NO. | STRUCT. NO. | STRUCT. NO. | STRUCT. NO. | COUNTY Cook DRILLING METHOD HSA/Rotary HAMMER TYPE CME Automatic 8 1.3 21 630.60 -50 11 P End Of Boring @ -50.0'. Boring backfilled with cuttings. The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206), GP-Geoprobe Hand Auger
BBS, from 137 (Rev. 8-99)

A C C U T A T E

GROUP, INC.

USER NAME = DESIGNED - JMT REVISED CHECKED - SPS REVISED PLOT SCALE = DRAWN - JN REVISED PLOT DATE = CHECKED - JMT REVISED -

Geo Services, Inc.

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

D B U M Surface Water Elev		B	U	M
Otteum Dea Liev.	ft D	L	c	0
P O S I	P	O W	S	S
T W S Groundwater Elev.: H S Qu T First Encounter Dry to -10.0'		s	Qu	T
Upon Completion n/a	ft	(/6")	(tsf)	(%)
ft (ft) (/6") (tsf) (%) After Hrs. CLAY-gray-medium stiff to stiff	- 11 /	(10)	(tSI)	(70)
678.85 (continued)	659.27	1		
7 CLAYEY SAND & GRAVEL-gray-loose		4		
7 3.3 15 GRAVEL-gray-loose		4 5		12
676.77	656.77			
CLAY-gray-stiff	_	4		
3 3.0 22	_	5	1.3	22
_5 5 P	-25	6	В	
-	_	-		
3		4		
4 3.5 20 4 P	_	4	1.1 B	22
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6 4 2.5 16	_	3	1.0	22
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669.27	_	1		
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3 0.7 20		3 5	1.7	20
15 3 B	-35	1	В	
-	_	-		
3		1		
4 1.2 20 4 B SLTY LOAM-gray-medium dense	642.77]		
3 LTT LOAW-gray-medium dense	_			
一	_	1 .		
		7		16
4 P	-40	1 1		
trength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Pe	netrometer)			
the last two blow values in each sampling zone (AASHTO T206), Gl				9)
	,	(***		′
-20 4 P	T206), GP	ear, P-Penetrometer) T206), GP-Geoprobe	ear, P-Penetrometer) T206), GP-Geoprobe Hand A	10 10 ear. P-Penetrometer)

Geo Services, Inc.

GSI Job No. __19120-A

Page <u>1</u> of <u>2</u> Date ___1/20/20

SOIL BORING LOG

HSA/Rotary HAMMER TYPE CME Automatic

LOCATION NE 1/4, SEC. 27, TWP. T41N, RNG. R11E, 3rd PM

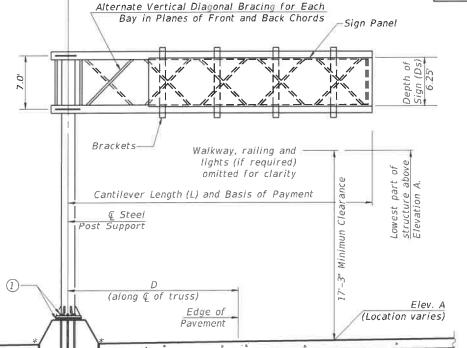
ROUTE IL Rte 72 & IL Rte 83 DESCRIPTION New Sign Trusses on IL Rte 72 & IL Rte 83 LOGGED BY TC

Geo Services, Inc. Geotechnical, Environmental & Chill Engineering 805 Amherist Court, Suite 204 Naperville, Julipus 90865				GS	SI Job No
805 Amherst Court, Slutte 204 Naperville, Illinois 60565 (630) 355-2878		,	SOIL BOR	ING LOG	Page
					Date _
ROUTE IL Rte 72 & IL Rte 83	DESCRIPTION	ONNe	w Sign Trusses on IL R	Rte 72 & IL Rte 83 LC	GGED BY
SECTION	LOC	ATION N	E 1/4, SEC. 27, TWP. T	41N, RNG. R11E, 3 rd PM	
COUNTY Cook DRIL	LING METHO	D	HSA/Rotary	HAMMER TYPE	CME Au
STRUCT. NO.	D B		M Surface Water El	lev ft	
Station	- P O	S	I otteam bed Lie	ev ft	
BORING NO. SB-02 Station 70+30 Offset 54.40ft Right	T W		S Groundwater Ele T First Encounter		
Offset 54.40ft Right			Upon Completic	on n/a ft	
Ground Surface Elev. 679.77 SILTY LOAM-gray-medium dense	ft (ft) (/6'	') (tsf)	(%) After Hrs	s ft	
(continued)	\dashv				
CLAY-gray-medium stiff to stiff	37.77				
	6		18		
	45 12				
	-				
	5		20		
62	9.77 .50 6				
End Of Boring @ -50.0'. Boring backfilled with cuttings.	-				
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	-55				
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USER NAME = DESIGNED - JMT REVISED -REVISED -CHECKED - SPS PLOT SCALE = DRAWN - JN REVISED -PLOT DATE = CHECKED - JMT REVISED -

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

COUNTY TOTAL SHEET NO.
COOK 191 137 SECTION **SOIL BORING LOGS-II** 341 2011-019-TS CONTRACT NO. 60P14 OF SHEETS SHEET ILLINOIS FED. AID PROJECT



*The roadway pavement at the base of the median barrier wall shall be warped to match gutter slope of 6% slope of the adjacent gutter.

TYPICAL ELEVATION

Looking in Direction of Traffic

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

Elev. A = Elevation at point of minimum

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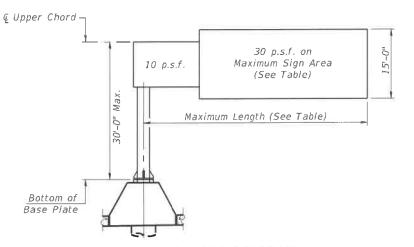
clearance to sign, walkway support or truss.



DATE SIGNED: 06/08/2020 EXP. DATE: 11/30/2020

Structure Number	Station	Design Truss Type	Cantilever Length (L)	Elev. A	Dim. D	Ds	Total Sign Area
1C016S072L000.0~000	72+43	III-C-A	36'	678.55	4.5'	6.25	178.75 Sq. Ft.

Truss Type	Maximum Sign Area	Maximum Length
I-C-A	170 Sq. Ft.	25 Ft.
II-C-A	340 Sq. Ft.	30 Ft.
III-C-A	400 Sq. Ft.	40 Ft.



DESIGN WIND LOADING DIAGRAM

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

Note:

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

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

GENERAL NOTES

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

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

LOADING: 90 M.P.H. WIND VELOCITY

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

DESIGN STRESSES: Field Units f'_c = 3,500 p.s.i.

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

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

MATERIALS: Aluminum Alloys as shown throughout plans. All Structural Steel Pipe shall be ASTM A53 Grade B or A500 Grade B or C. If A500 pipe is substituted for A53, then the outside diameter shall be as detailed and wall thickness greater than or equal to A53. All Structural Steel Plates and Shapes shall conform to AASHTO M270 Gr. 36, Gr. 50 or Gr. 50W*. Stainless steel for shims, sleeves and handhole covers shall be ASTM A240, Type 302 or 304, or another alloy suitable for exterior exposure and acceptable to the Engineer. The steel pipe and stiffening ribs at the base plate for the column shall have a minimum longitudinal Charpy V-Notch (CVN) energy of 15 lb.-ft. at 40° F. (Zone 2) before galvanizing.

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

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

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

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

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

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

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

TOTAL BILL OF MATERIAL

ITEM	UNIT	TOTAL
OVERHEAD SIGN STRUCTURE-CANTILEVER TYPE I-C-A	Foot	0
OVERHEAD SIGN STRUCTURE - CANTILEVER TYPE II-C-A	Foot	0
OVERHEAD SIGN STRUCTURE - CANTILEVER TYPE III-C-A (36"x7'-0")	Foot	36
OVERHEAD SIGN STRUCTURE WALKWAY, TYPE A	Foot	0
DRILLED SHAFT CONCRETE FOUNDATIONS	Cu. Yds.	13.1

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

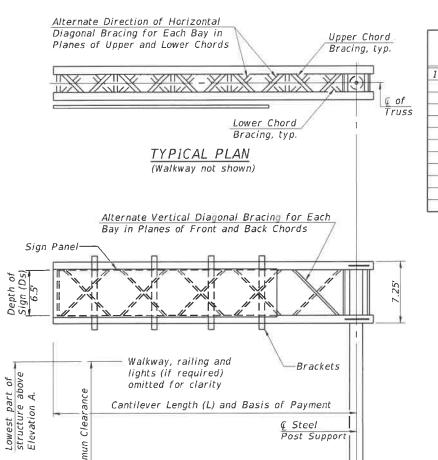
CANTILEVER SIGN STRUCTURES - GENERAL PLAN & ELEVATION
ALUMINUM TRUSS & STEEL POST

FA.P. RTE. 341 2011-0

A.P. SECTION COUNTY TOTAL SHEETS NO.

11 2011-019-TS COOK 191 138

CONTRACT NO. 60P14



TYPICAL ELEVATION Looking in Direction of Traffic

Edge of

Pavement

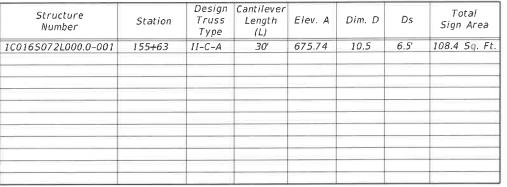
Sign support structures may be subject to damaging vibrations and oscillations when sign panels are not in place during erection or maintenance of the structure. To avoid these vibrations and oscillations, consideration should be given to attaching temporary blank sign panels to the structure.



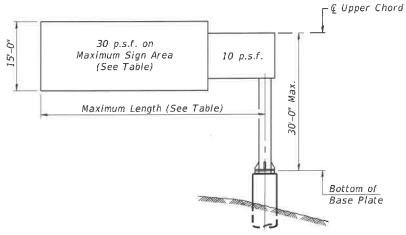
(along & of truss)

· MARKAN MARKAN MARK

DATE SIGNED: 06/05/2020 EXP. DATE: 11/30/2020



Truss Type	Maximum Sign Area	Maximum Length
I-C-A	170 Sq. Ft.	25 Ft.
II-C-A	340 Sq. Ft.	30 Ft.
III-C-A	400 Sq. Ft.	40 Ft.



DESIGN WIND LOADING DIAGRAM

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

Note:

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

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

GENERAL NOTES

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

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

LOADING: 90 M.P.H. WIND VELOCITY

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

DESIGN STRESSES: Field Units f'c = 3,500 p.s.i.

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

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

MATERIALS: Aluminum Alloys as shown throughout plans. All Structural Steel Pipe shall be ASTM A53 Grade B or A500 Grade B or C. If A500 pipe is substituted for A53, then the outside diameter shall be as detailed and wall thickness greater than or equal to A53. All Structural Steel Plates and Shapes shall conform to AASHTO M270 Gr. 36, Gr. 50 or Gr. 50W*. Stainless steel for shims, sleeves and handhole covers shall be ASTM A240, Type 302 or 304, or another alloy suitable for exterior exposure and acceptable to the Engineer. The steel pipe and stiffening ribs at the base plate for the column shall have a minimum longitudinal Charpy V-Notch (CVN) energy of 15 lb.-ft. at 40° F. (Zone 2) before galvanizing.

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

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

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

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

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

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

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

TOTAL BILL OF MATERIAL

ITEM	UNIT	TOTAL
OVERHEAD SIGN STRUCTURE-CANTILEVER TYPE I-C-A	Foot	0
OVERHEAD SIGN STRUCTURE - CANTILEVER TYPE II-C-A (36"x5'-6")	Foot	30
OVERHEAD SIGN STRUCTURE - CANTILEVER TYPE III-C-A	Foot	0
OVERHEAD SIGN STRUCTURE WALKWAY, TYPE A	Foot	0
DRILLED SHAFT CONCRETE FOUNDATIONS	Cu. Yds.	8.4

OSC-A-1

Elev. A

(Location varies)

Elev. A = Elevation at point of minimum

clearance to sign, walkway support or truss.

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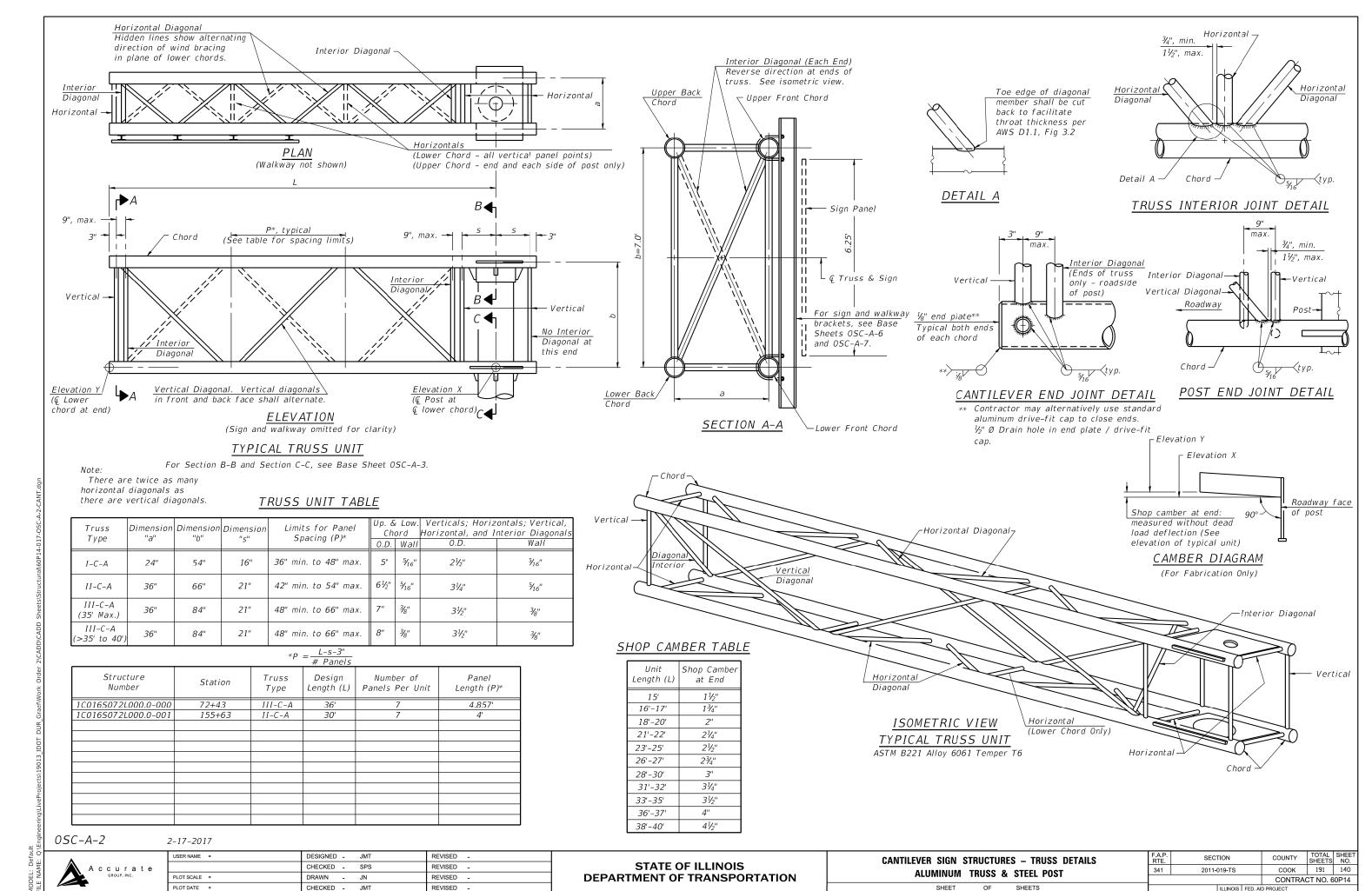
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

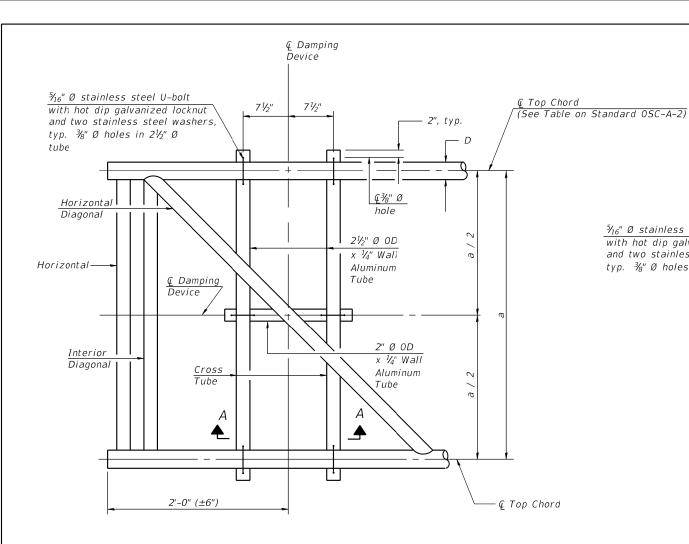
CANTILEVER SIGN STRUCTURES - GENERAL PLAN & ELEVATION
ALUMINUM TRUSS & STEEL POST

SHEET OF SHEETS

| F.A.P. | SECTION | 341 | 2011-01



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_@ Cross Tubes 7½" 7½" -@ ¾" Ø hole 5/₁₆" Ø stainless steel U-bolt 2" typ. with hot dip galvanized locknut and two stainless steel washers, typ. ¾" Ø holes in mounting tube -Mounting Tube - Damping Device

> TRUSS DAMPING DEVICE CONNECTION DETAIL

© Damping Device See Plan Detail -

ELEVATION

Aluminum Cantilever Sign Structure

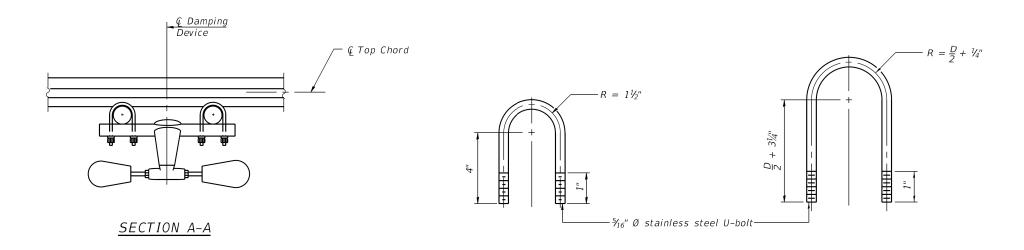
One damper per truss. (31 lbs. Stockbridge-Type Aluminum-29" minimum between ends of weights) Damper:

GENERAL NOTES

Aluminum tubes shall be ASTM B221 alloy 6061 Materials:

temper T6

PLAN DETAIL



DAMPING DEVICE MOUNTING TUBE U-BOLT DETAIL (Typical)

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TOP CHORD TO CROSS TUBE U-BOLT DETAIL (Typical)

OSC-A-D

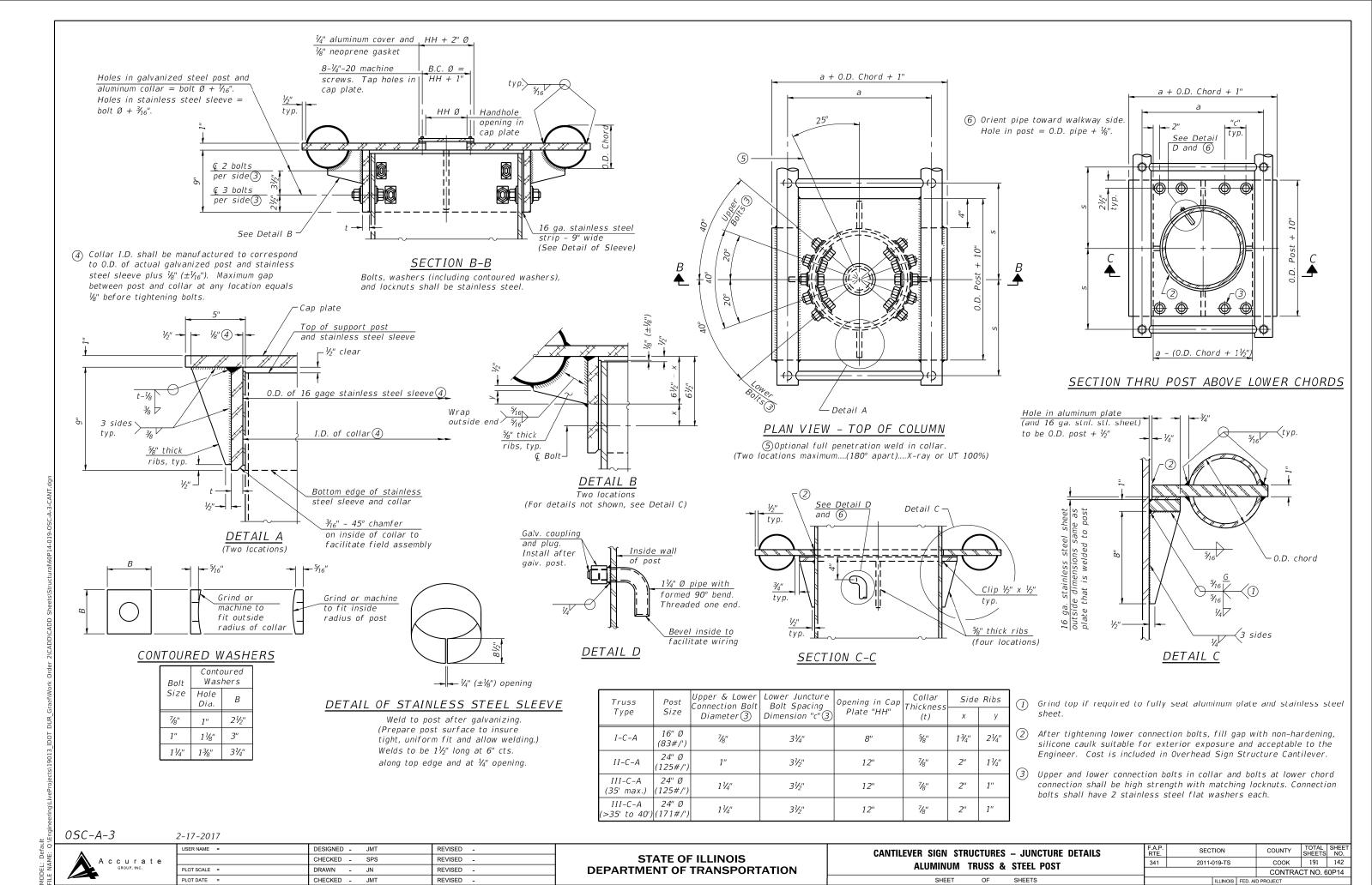
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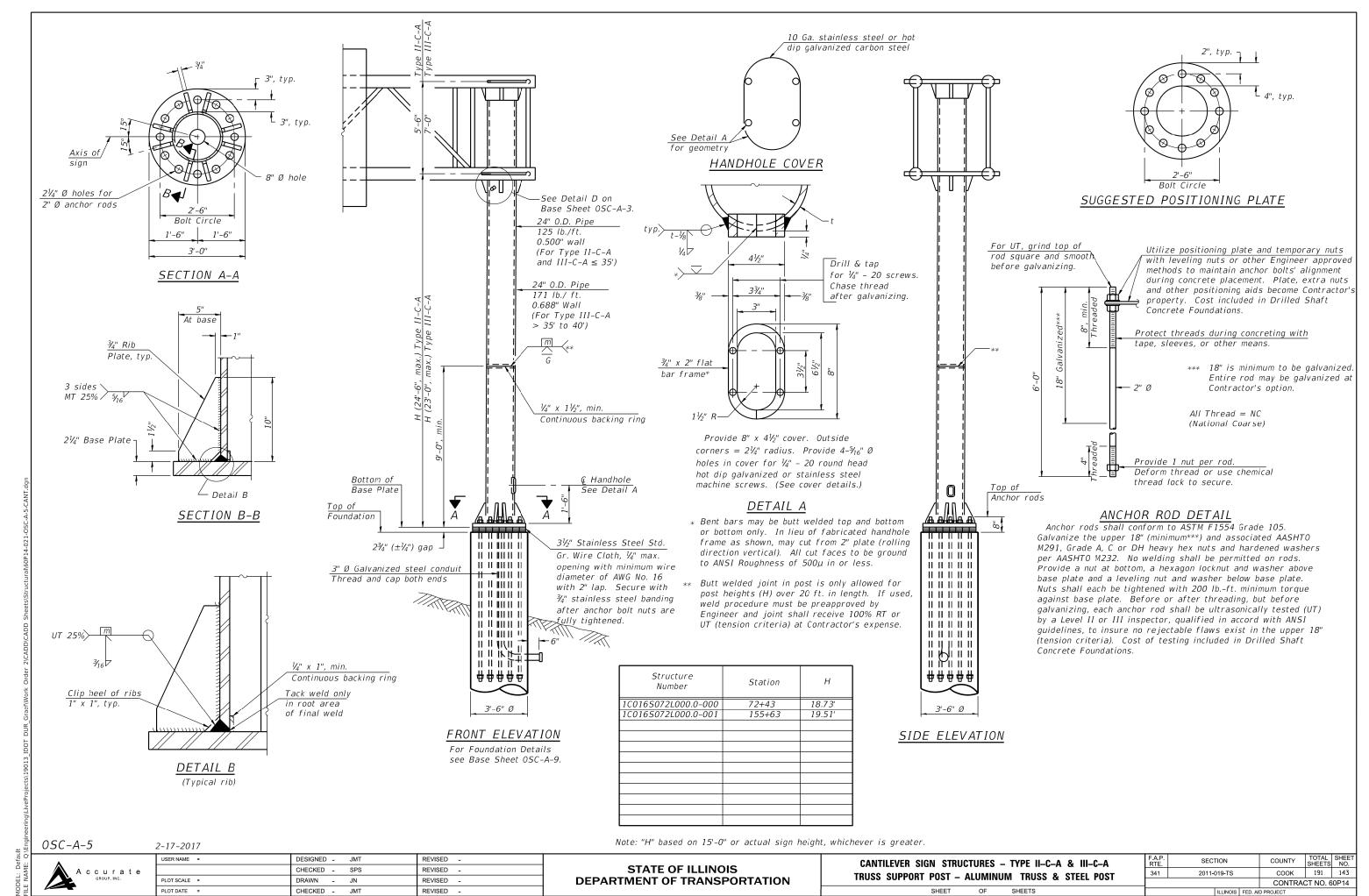
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COUNTY TOTAL SHEET NO.

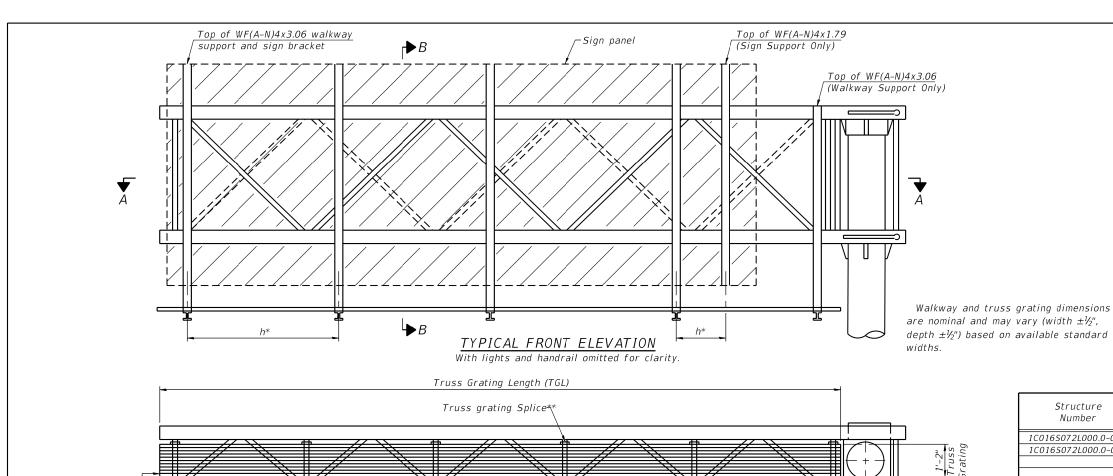
COOK 191 141 SECTION **CANTILEVER SIGN STRUCTURE** 2011-019-TS DAMPING DEVICE CONTRACT NO. 60P14 SHEET

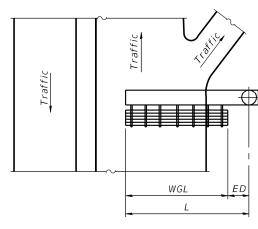


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<u>PLAN</u>

<u>WALKWAY AND HANDRAIL SKETCH</u>

(Road plan beneath truss varies)

*** Alternate angle = WF(A-N)4x3.06* for safety chain -WF(A-N)4x3.06Grating attachment ← Walkway Grating Splice** Standard Aluminum Bar Grating Safety Chain ← Handrail Joint** Each end $\overline{}$ `-Detail F ∽Detail G └Walkway grating Light fixture supports. Handrail -Length as required for lighting fixtures. (If required) End Distance Walkway Grating Length (WGL) Design Length (L) −¢ Column

Structure Number	Station	WGL	ED	TGL
1C016S072L000.0-000	72+43			34.5'
1C0165072L000.0-001	155+63			28.5'

Notes:

- Space walkway brackets WF(A-N)4x3.06 and sign brackets WF(A-N)4x1.79 for efficiency and within limits shown:
- f = 12" maximum, 4" minimum (End of sign to Q of nearest bracket)
- g = 12" maximum, 4" minimum (End of walkway to Q of nearest bracket)
- $\bar{h}=6'$ -0" maximum (ℓ to ℓ sign and/or walkway support brackets, WF(A-N)4x1.79 or WF(A-N)4x3.06)
- *** If walkway bracket at safety chain location is behind sign, add angle to bracket. See alternate safety chain attachment on base sheet OSC-A-8

For details of sign placement, sign/walkway brackets, truss and walkway gratings, grating splices and Section B-B, see Base Sheet OSC-A-7.

For details of handrail, handrail joint, safety chain and Details F and G, see Base Sheet OSC-A-8.

Truss grating to facilitate inspection shall run full length of cantilevers. Cost of truss grating is included in Overhead Sign Structure Cantilever.

SECTION A-A

Handrail and walkway grating shall span a minimum of three brackets between splices.

** Use and location of handrail joints or grating splices are optional, based on lengths needed and material availability.

 $TGL = L - (\frac{Post \ O.D.}{2} + 6")$

BRACKET TABLE

WF(A-N)4x1.79 or WF(A-N)4x3.06 ASTM B308, Alloy 6061-T6							
Sign Width Number							
Greater Than	Brackets Required						
	8'-0"	2					
8'-0"	14'-0"	3					
14'-0"	20'-0"	4					
20'-0"	26'-0"	5					
26'-0"	32'-0"	6					

WALKWAY GRATING, WALKWAY SUPPORTS, HANDRAIL AND LIGHTING ARE NOT INCLUDED IN THIS CONTRACT. INFORMATION SHOWN ON THIS SHEET SHALL BE USED FOR TRUSS GRATING AND SIGN BRACKETS ONLY.

0SC-A-6

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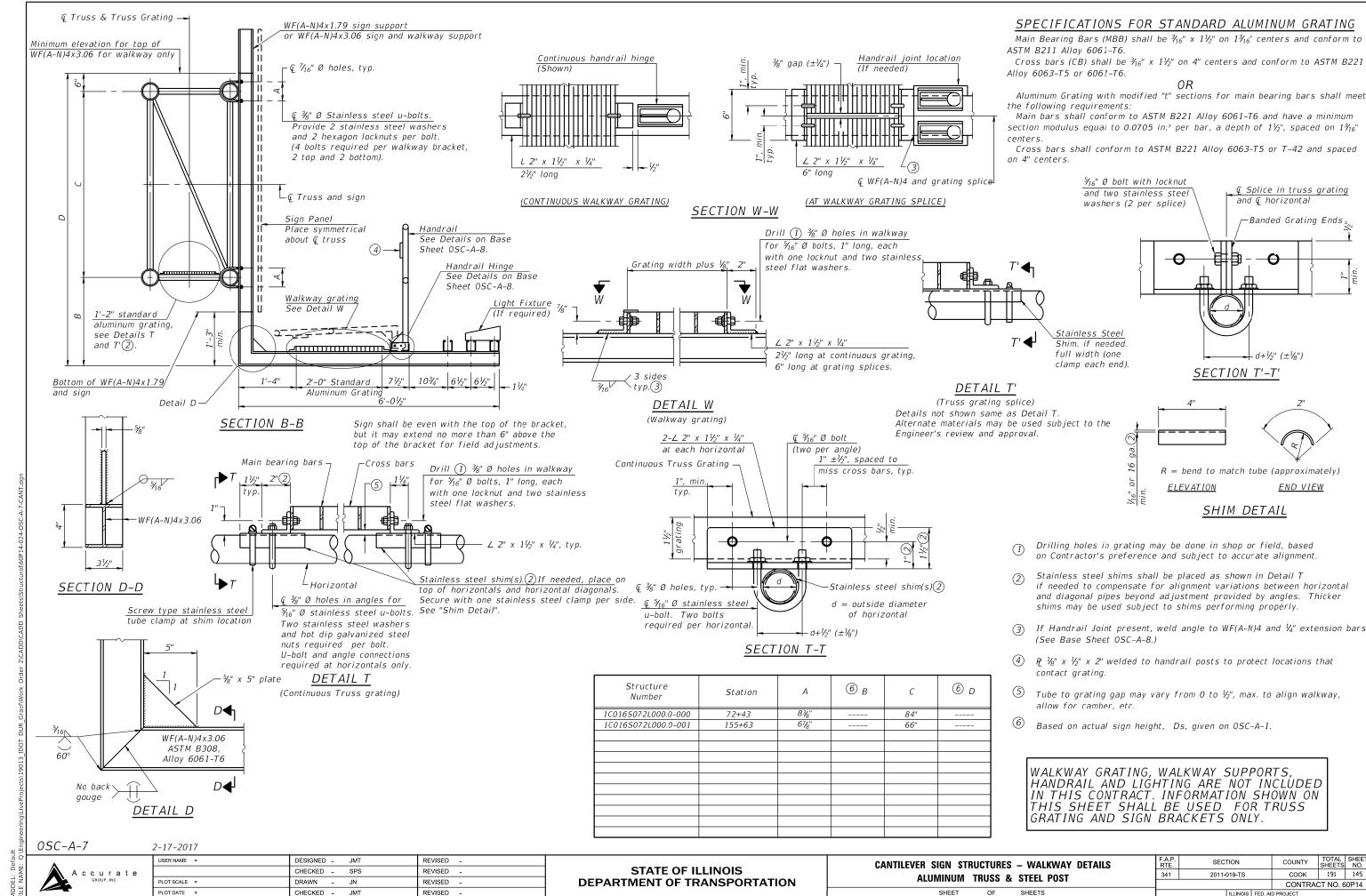
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CANTILEVER SIGN STRUCTURES - ALUMINUM WALKWAY

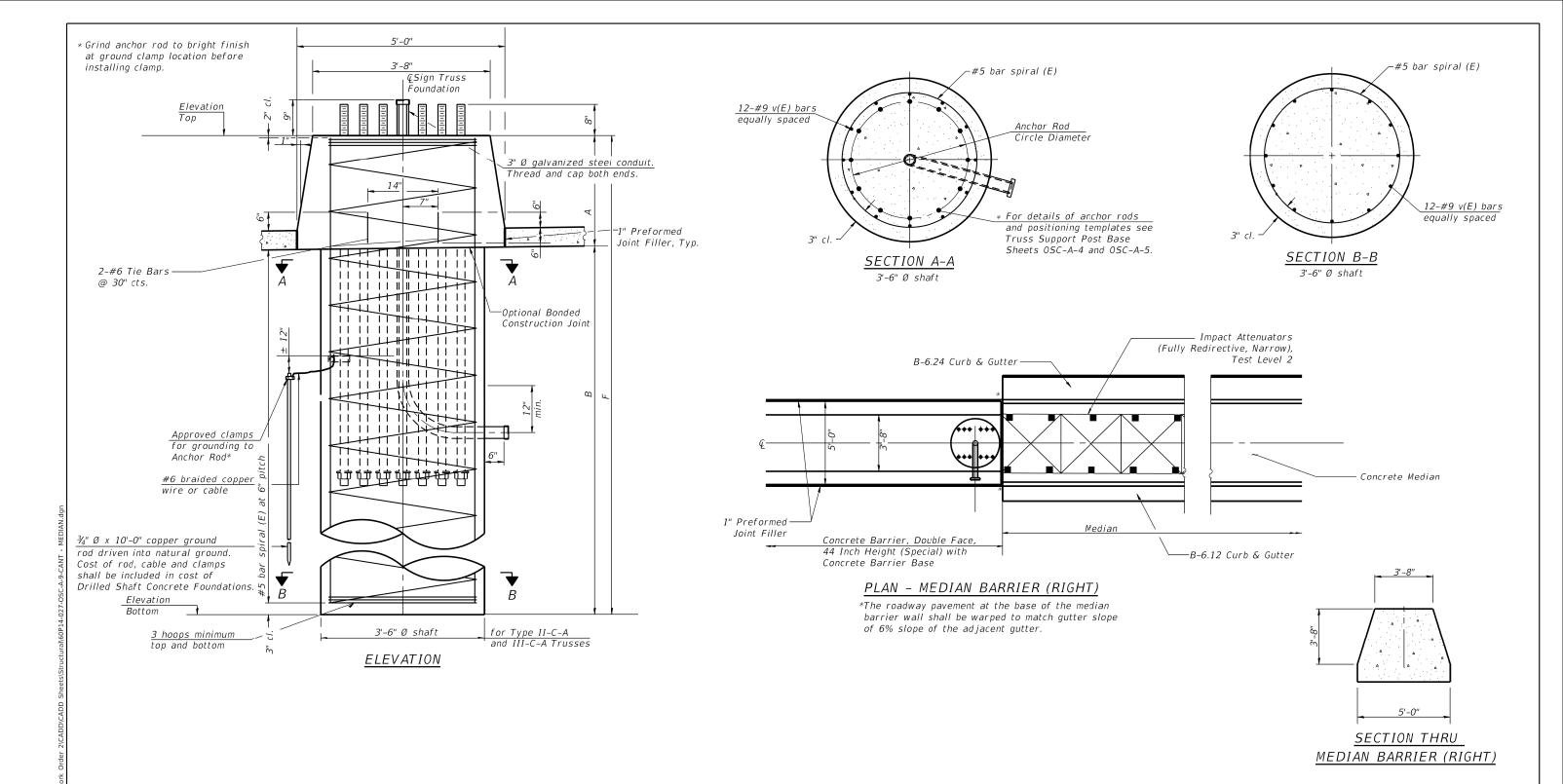
DETAILS - ALUMINUM TRUSS & STEEL POST

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	FOUNDATION DESIGN TABLE							
Truss Type	Post Base Sheet	Maximum Cantilever Length (ft)	Maximum Total Sign Area (sq ft)	Shaft Diameter (in)	"B" Depth (ft)		or Rods Diameter (in)	Anchor Rod Circle Diameter (in)
I-C-A	0SC-A-4	25	170	3.0	16.0	8	2	22
II-C-A	OSC-A-5	30	170	3.5	17.0	12	2	30
II-C-A	0SC-A-5	30	340	3.5	21.5	12	2	30
III-C-A	0SC-A-5	35	170	3.5	19.0	12	2	30
III-C-A	0SC-A-5	35	250	3.5	22.5	12	2	30
III-C-A	0SC-A-5	35	400	3.5	26.5	12	2	30
III-C-A	0SC-A-5	40	400	3.5	32.0	12	2	30

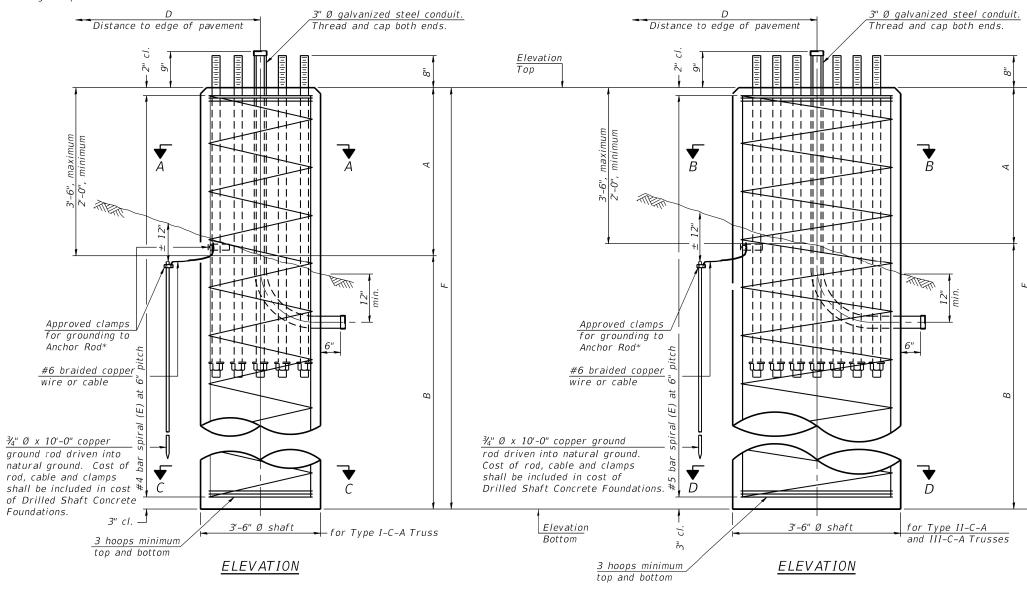
	FOUNDATION DATA TABLE									
Structure Number	Station	Truss Type	Shaft Diameter	Elevation Top	Elevation Bottom	Qu	А	В	F	Class DS Concrete Cubic Yards
1C016S072L000.0-000	72+43	III-C-A	3.5'	682.10	645.76	2.0	4.75'	32'	36.75'	13.1

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CANTILEVER SIGN STRUCTURES – DRILLED SHAFT	F.A.P. RTE.	SECTION		COUNTY	TOTAL SHEETS	SHEET NO.
ALUMINUM TRUSS & STEEL POST	341	2011-019-TS		соок	191	146
ALDIVINOUM THOSS & STEEL FOST				CONTRAC	CT NO. 6	0P14
SHEET OF SHEETS		ILLINOIS	FED. AI	ID PROJECT		



FOUNDATION DESIGN TABLE Anchor Rods Maximum Maximum Shaft "B" Anchor Rod Truss Post Base Diameter Circle Diamete Cantilever Total Sign Area iameter Depth Sheet Type No. Length (ft) (sq ft) (in) (in) (ft) (in) I-C-A 0SC-A-4 170 3.0 II-C-A OSC-A-5 17.0 12 30 30 170 3.5 30 II-C-A 0SC-A-5 340 3.5 21.5 12 30 III-C-A OSC-A-5 170 250 19.0 12 12 30 3.5 *35* 30 22.5 III-C-A OSC-A-5 35 3.5 III-C-A OSC-A-5 400 3.5 26.5 12 30 35 30 III-C-A OSC-A-5 12 32.0 40 400 3.5

For details of anchor rods and positioning templates see Truss Support Post Base SECTION A-A Sheets OSC-A-4 and OSC-A-5. 3'-6" Ø shaft #5 bar spiral (E) 12-#9 v(E) bars equally spaced Anchor Rod Circle Diameter For details of anchor rods and positioning templates see Truss Support Post Base Sheets OSC-A-4 and OSC-A-5. SECTION B-B 3'-6" Ø shaft 3" cl. -10-#9 v(E) bars equally spaced #4 bar spiral (E) SECTION C-C 3'-6" Ø shaft -#5 bar spiral (E) 12-#9 v(E) bars equally spaced SECTION D-D 3'-6" Ø shaft

-#4 bar spiral (E)

Anchor Rod

Circle Diameter

10-#9 v(E) bars

equally spaced

NOTES:

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

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

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

Concrete shall be placed monolithically, without construction joints.

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

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

[FOUNDAT	ION DATA T	ABLE					
	Structure Number	Station	Truss Type	Shaft Diameter	Elevation Top	Elevation Bottom	Qu	А	В	F	Class DS Concrete Cubic Yards
	1C016S072L000.0-001	155+63	II-C-A	3.5'	678.38	654.88	2.36	2'	21.5'	23.5'	8.4'
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CANTILEVER SIGN STRUCTURES – DRILLED SHAFT	F.A.P. RTE.	SECTIO	NC		COUNTY	TOTAL SHEETS	SHEET NO.
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					gn Trusses on IL Rte 72 & IL Rte 83		ED BY		<u>rc</u>
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STRUCT. NO.	D E	B	U	M	Surface Water Elev ft	D E	B L	U	
Station	Р	0	s	- 1	Stream Bed Elev ft	P	0	s	
BORING NO. SB-03 Station 72+57	T H	W	Qu	S	Groundwater Elev.: First Encounter Dry to -10.0' ft	H	W S	Qu	
Offset 51.30ft Left	"				Upon Completion n/a _ ft				
Ground Surface Elev. 677.94 ft 3.0" ASPHALT, 10.0"	(ft)	(/6")	(tsf)	(%)	After Hrs ft CLAY-gray-stiff to very stiff	(ft)	(/6")	(tsf)	(
CONCRETE 676.86	_				(continued)	_			
CLAY LOAM-brown & gray-stiff to	_	12		7		_	4	1.5	-
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	_	5	2.7	18		_	6	1.5	1
	_	6	В			_	6	Р	H
CLAY-gray-stiff to very stiff	_								
		5	1.7	20			13	1.0	-
	-10	7	В			-30		P	L.
	_					_	-		
	_	4	0.0	-					
	_	6	3.0 P	23					
664.94						_			
CLAY-gray-stiff to very stiff	-	4				_	3		
		4	1.0 P	21			5 7	1.3 B	1
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	_	6	Р		SILTY LOAM-gray-medium dense	_			
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STRUCT. NO	. D	B L	U	M	Surface Water Elev	ft	
	- Р Т	O W	S	I S	Groundwater Elev.		
BORING NO. SB-03 Station 72+57 Offset 51.30ft Left	: Ĥ	s	Qu	Ť	First Encounter	Dry to -10.0' ft	
Ground Surface Elev. 677.94	ft (ft)	(/6")	(tsf)	(%)	After Hrs.	n/a ft	
SILTY LOAM-gray-medium dense (continued)							
CLAY LOAM-gray-stiff to very stiff	5.94						
		6	2.2	17			
	-45	9	В				
		5					
		6	1.0	19			
End Of Boring @ -50.0'. Boring	7.94 -50	8	В				
backfilled with cuttings.							
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F.A.P. RTE. **SOIL BORING LOGS-III** SHEET OF SHEETS

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805 Amherst Court, Suité 204 Naperville, Illifois 60565 (630) 355-28/8				SC	OIL BORING LOG		Page	1	of
(000) 000 2000				•	712 DOT 1111 O 200		Date	1/2	22/2
ROUTE IL Rte 72 & IL Rte 83 DE	SCR	PTION	1 N	lew Si	gn Trusses on IL Rte 72 & IL Rte 83 L	OGG	ED BY		гс
					4, SEC. 27, TWP. T41N, RNG. R11E, 3 rd PN				
				INE I/					_
COUNTY Cook DRILLING	G ME	THOD	_		HSA/Rotary HAMMER TYPE		OME A	utoma	utic
STRUCT. NO.	D	B L	U	M	Surface Water Elev ft	D	B L	U	1
Station	P	0	s	- 1	Stream Bed Elev ft	P	0	s	
BORING NO. SB-04	H	W	Qu	S	Groundwater Elev.: First Encounter Dry to -10.0' ft	T H	W	Qu	\$
Station 72+46 Offset 4.00ft Right					First Encounter Dry to -10.0' ft Upon Completion n/a ft				
Ground Surface Elev. 678.80 ft 3.0" ASPHALT 678.55	(ft)	(/6")	(tsf)	(%)	After Hrs ft	(ft)	(/6")	(tsf)	(%
3.0" ASPHALT 678.55 CLAY LOAM-gray-hard (Fill)	_				CLAY-gray-medium stiff to stiff (continued)	_			
		13	4.0				6	4.0	_
	_	10	4.0 P	9		_	6 5	1.0 P	2
675.80	_					_			Г
CLAY LOAM-brown-very stiff to hard	_	4				_	3		
		7	4.5	16			4	0.9	2
	5	9	Р			-25	4	В	⊢
	_					_			
	_	7	4.0	17		_	3 5	0.7	2
	_	11	P				5	В	_
	_					_			
	_	4				_	3		
	_	10 12	3.0 B	17		_	5	1.1 B	2
668.30	10	12				-30		_	\vdash
CLAY-gray-medium stiff to stiff		4				_			
	_	5	1.5	18	646.80	, –			
	_	7	Р		SILTY CLAY LOAM-gray-medium dense	_			
	_								
	_	4	1.5	20		_	7 8		1
	-15	5	P P	20		-35	-		Ι'
									Г
	_	3				_			
	_	5 9	1.3	20		_			
	_	9	В			_			
	_	4	1.0	22		_	6		1
	-20	5	В			-40			Ι.

Geo Services, Inc. Geotechnical, Environmental & Chil Engineering 805 Amberst Court, Suide 204 Neperville, Incids (40665 (830) 355-2859				SC	OIL BORING LOG	Page _2
						Date _
					gn Trusses on IL Rte 72 & IL Rte 83	
					I, SEC. 27, TWP. T41N, RNG. R11E, 3rd P	
COUNTY Cook DRIL	LING ME				HSA/Rotary HAMMER TYPE	CME Auto
STRUCT. NO	E	B L	C	M O	Surface Water Elev ft Stream Bed Elev ft	
BORING NO. SB-04	P	O W	S	S	Groundwater Elev.:	
Station 72+46 Offset 4.00ft Right	Н	S	Qu	Т	First Encounter	
Ground Surface Elev. 678.80 SILTY CLAY LOAM-gray-medium	ft (ft)	(/6")	(tsf)	(%)	After Hrs. ft	
dense (continued)	_					
63	6.80					
CLAY LOAM-gray-very stiff to hard	-	-				
	_	6				
	_	13	4.5 P	16		
	45	14	F			
	_	-				
	_	-				
	_					
	_	6				
62	8.80 -50	7	3.0 P	17		
End Of Boring @ -50.0'. Boring backfilled with cuttings.	_	-				
	_					
backfilled with cuttings.	_	-				
	_	-				
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USER NAME =	DESIGNED -	JMT	REVISED	-
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STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

F.A.P. RTE. **SOIL BORING LOGS- IV** 2011-019-TS OF SHEETS

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Geo Services, Inc. Geotechnical, Environmental & Chill Engineering 805 Amherist Court, Sulfa 204 Naperville, Illipios 60965					G	SI Jo	b No.	_191	120
805 Annivîst Court, Slutte 204 Naperville, Illinois 60565 (630) 355-2838				SC	OIL BORING LOG		Page	1	of
(400) 44- 100				•	712 DOT 10 200		Date	1/2	20/2
ROUTE IL Rte 72 & IL Rte 83	DESCRI	PTION	1 N	lew Si	gn Trusses on IL Rte 72 & IL Rte 83	OGGE	ED BY		гс
					4, SEC. 26, TWP, T41N, RNG, R11E, 3 rd PN				
				1444 17					_
COUNTY Cook DRIL	LING ME	THOD			HSA/Rotary HAMMER TYPE		ME A	utoma	utic
STRUCT. NO.	DE	B L	U	M	Surface Water Elev ft	D E	B L	U	!
Station	P	0	s	- 1	Stream Bed Elev ft	Р	0	s	
BORING NO. SB-05 Station 155+86	H	W	Qu	S	Groundwater Elev.: First Encounter 671.6_ ft ▼	T H	W	Qu	
Offset 33.40ft Right		am			Upon Completionn/aft		//em		١.
Ground Surface Elev. 675.11 5.0" ASPHALT, 12.0"	ft (ft)	(/6")	(tsf)	(%)	After Hrs ft CLAY-gray-medium stiff to stiff	(ft)	(/6")	(tsf)	(
CONCRETE	_				(continued)				
GRAVEL with SAND-brown-very	3.69	14 7		5		+	4	0.9	1
loose to medium dense (Fill)		12				\exists	9	В	
	_					\dashv			
	¥	4					4		
	_	2		4		_	4 7	1.0 P	1
	5					-25		<u> </u>	H
	_	1				\neg	3		
	_	2		9			3	0.7	2
CLAY LOAM-brown & gray-stiff	7.44	1			•	\neg	5	В	L
CLAY LOAM-brown & gray-stiff	7.11					\exists			
		5	1.7	18	4	-	6	0.8	1 2
	-10	6	В			-30	-	В	L
becoming gray @ -10.5'	_					\dashv			
becoming gray @ -10.5'		4				\exists			
	_	4 6	1.2 B	18	643.11 SILTY CLAY LOAM-gray-very stiff	\dashv			
	_	Ť			gray very sun	二			
	_	5				\dashv	12		
		8	1.0	17	•	\exists	12	2.3	1
	15	12	Р			-35	8	В	⊢
	_					二			
65	_	5	1.0	18	638.11	\dashv			
		7	В		CLAY LOAM-gray-stiff to very stiff	\exists			
	7.11					\dashv			
ob trigray modalii ouii to ouii	_	4					5		
CLAY-gray-medium stiff to stiff	-	5 8	1.3 B	21		-	6	1.0 P	1
	-20	8	В		11	-40	ь	۲	\perp

Geo Services, Inc. Geotechnical, Environmental & Chyl Engineering 805 Amherist Court, Suide 204 Naperville, Julios 9,0665				90	IL BORIN		SI Job No1 Page _2
(630) 355-28/8				30	IL BUKIN	IG LOG	Date
ROUTE IL Rte 72 & IL Rte 83 DE	SCRIP	TION	N	lew Si	gn Trusses on IL Rte	72 & IL Rte 83 LO	
SECTION	LC	CATIO	_ NC	NW 1/	4, SEC. 26, TWP. T41	N, RNG. R11E, 3 rd PM	
COUNTYCook DRILLING	G MET	HOD .			HSA/Rotary	_ HAMMER TYPE _	CME Autor
STRUCT. NO	D E	B L	U	M	Surface Water Elev. Stream Bed Elev.	ft	
BORING NO. SB-05	P	o W	S	I S	Groundwater Elev.:		
Station 155+86 Offset 33.40ft Right	H	S	Qu	Т		671.6 ft ▼ n/a ft	
Ground Surface Elev. 675.11 ft CLAY LOAM-gray-stiff to very stiff	(ft) ((/6")	(tsf)	(%)	After Hrs.	ft	
(continued)	\exists						
	\exists						
	\exists	7					
	\exists		2.2 B	18			
	-45	12					
	\exists						
	\dashv						
	\exists						
	4	6	1.2	19			
625.11 End Of Boring @ -50.0'. Boring backfilled with cuttings.	-50	10	B	15			
End Of Boring @ -50.0'. Boring backfilled with cuttings.	\exists						
	\neg						
	\exists						
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	\exists						
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	\neg						
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GROUP, INC.	PLOT SCALE =	
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PLOT DATE = CHECKED - JMT REVISED -	PLOT DATE =	CHECKED - JMT	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SOIL BORING LOGS- V	F.A.P. RTE.					TOTAL SHEETS	
	341	2011-	019-TS		соок	191	150
					CONTRA	CT NO. 6	30P14
SHEET OF SHEETS			ILLINOIS	FED. All	D PROJECT		

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Geo Services, Inc.							GSI Jo	b No.	_191	120
Geo Services, Inc. Geotechnical Environmental & Civil Engineering 805 Amberist Court, Suite 204 Naperville, Illinois 90565 (830) 354-2858					SC	OIL BORING LOG		Page	1	of
The state of the s					•	/IL DOT		Date	1/2	21/2
ROUTE IL Rte 72 & IL Rte 83	DES	CRI	PTION	1_1	lew Si	gn Trusses on IL Rte 72 & IL Rte 83	LOGG	ED BY		ГС
						4, SEC. 26, TWP. T41N, RNG. R11E, 3 rd F				
COUNTY Cook DRIL						HSA/Rotary HAMMER TYPE		OME A	utoma	itic
STRUCT. NO.		D E	B L	U	M	Surface Water Elev ft	D	B L	U	N
Station	- i	Р	0	s	ı	Stream Bed Elev ft	P	0	s	
BORING NO. SB-06 Station 155+75 Offset 32.00ft Left		T H	W S	Qu	S	Groundwater Elev.: First Encounter Dry to -10.0' ft	H	W	Qu	1
Offset 32.00ft Left	_	(fit)	((OII)			Upon Completion n/a _ ft	(64)	//011		
Ground Surface Elev. 675.08 3.0" ASPHALT, 12.0"	_ ft ((ft)	(/6")	(tsf)	(%)	After Hrs. ft CLAY-gray-medium stiff to stiff	(ft)	(/6")	(tsf)	(%
CONCRETE	70.00 -					(continued)	_			
SANDY CLAY LOAM with	73.83	-	4	2.5	13		_	4	1.2	2
STONE-very stiff (Fill)	_	Ⅎ	6	P			_	7	В	Ĺ
CLAY LOAM-brown-stiff to hard	72.08	_					_			
ODATI EOMIN-DIOMI-DINI TO HAIG	_	_	3				_	3		
		_	5 10	3.0 P	19		-	3	1.3 B	2
	_	-5	-10	<u> </u>			-25	_		\vdash
	_	_	6					2		
			10	4.4	17		_	3	0.7	2
		4	10	В			_	3	В	L
	_									
	_	\neg	8	3.1	18			2	0.9	2
		-10	10	В	10		-30	4	В	-
		\neg					_			
	-		7							
	_	\exists	9	3.5 B	19	643.0 SILTY CLAY LOAM-gray-medium	8			
	_		12			dense to dense	_			
becoming gray @ -13.0'		_	4				_	12		
	_	\exists	7	1.6	16			12		1
	_	-15	7	В			-35	15		H
	_	_					_			
		+	5	1.2	18		_			
	_	\exists	8	В			_			
CLAY-gray-medium stiff to stiff	57.08	4					_			
OLA 1-gray-medium sun to sun		-	3				_	4		
		_	5 7	1.1 B	20			9	4.3 P	1
		-20	,	В			-40	0	F	_

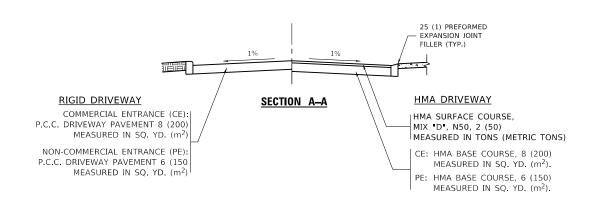
Geo Services, Inc. Geotechnical, Environmental & Civil Engineering 805 Amherist Ciurt, Suite 204 Naperville, Illhois 90565 (830) 355-2839					SC	OIL BORING LOG Page 2 o
POLITE II Die 72 9 II Die 92	DE	ecn	IDTION		Janu Ci	Date
						4, SEC. 26, TWP. T41N, RNG. R11E, 3 rd PM
COUNTY Cook D						HSA/Rotary HAMMER TYPE CME Automati
STRUCT. NO.		D	В	U	М	Surface Water Elev ft
Station		E P	L	C S	0	Stream Bed Elev. ft
BORING NO. SB-06 Station 155+75 Offset 32.00ft Left		Н	W S	Qu	S T	Groundwater Elev.: First Encounter
Ground Surface Elev. 675.08 SILTY CLAY LOAM-gray-medium		(ft)	(/6")	(tsf)	(%)	After Hrs. ft
dense to dense (continued)		_				
	633.08	_				
CLAY LOAM-gray-hard		-	-			
		_	6			
		-45	9	4.5 P	13	
		-40	-			
		_				
CLAY-gray-stiff	628.08	_				
		_				
		_	5	1.3	26	
End Of Boring @ -50.0'. Boring	625.08	-50	5	Р		
backfilled with cuttings.		_				
		_				
		_				
		_				
		-55				
		_				
		-55				
		_				
		_				
		_	-			

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206), GP-Geoprobe Hand Auger
BBS, from 137 (Rev. 8-99)

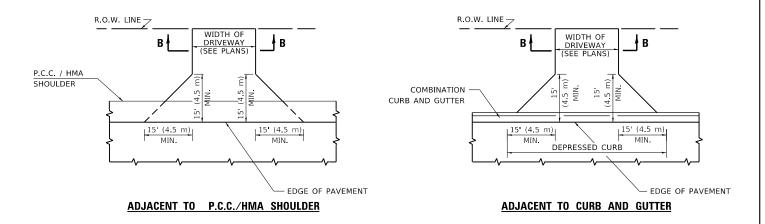
USER NAME =	DESIGNED - JMT	REVISED -	
	CHECKED - SPS	REVISED -	STATE OF ILLINOIS
PLOT SCALE =	DRAWN - JN	REVISED -	DEPARTMENT OF TRANSPORTATION
PLOT DATE =	CHECKED - JMT	REVISED -	

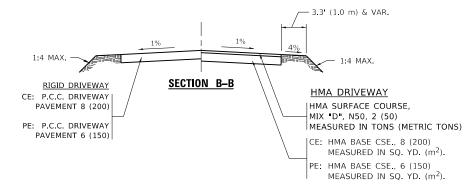
WITH CONCRETE CURB, TYPE B

EXISTING DRIVEWAY OR PARKING LOT EXISTING CURB (TYP.) -- 12 (300) & VAR. R.O.W. LINE P.C.C. P.C.C. SIDEWALK SIDEWALK - CONCRETE CURB TYPE B (TYP.) - R=15' (4.5 m) (TYP.) MIN. - CURB & GUTTER TRANSITION (TYP.) PARKWAY (TYP.) R=10 (3.0 m) TYP. MIN. 12 (300) STUB COMBINATION CURB & GUTTER FLOW LINE OF GUTTER DEPRESSED CURB PAVEMENT



WITH CONCRETE CURB, TYPE B





DRIVEWAY SLOPES, LOCATIONS, & GEOMETRIC LAYOUT SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE "HANDBOOK FOR POLICY ON PERMITS FOR ACCESS DRIVEWAYS TO STATE HIGHWAYS". FOR FURTHER LAYOUT REQUIREMENTS, REFER TO ILLUSTRATIONS IN THE PERMIT HANDBOOK. DRIVEWAYS SHALL BE REPLACED IN KIND, UNLESS OTHERWISE NOTED ON THE PLANS.

GENERAL NOTES:

COMMERCIAL DRIVEWAYS SHALL BE CONSTRUCTED WITH CONCRETE CURB, TYPE B RETURNS EXCEPT WHEN THE SIDEWALK EDGE IS 4 FEET (1.2 METERS) OR LESS FROM THE BACK OF CURB, CONSTRUCT A FLARE DRIVEWAY WITHOUT CURB.

THE RESIDENT ENGINEER SHALL CONTACT THE TRAFFIC PERMIT OFFICE AT 847/ 705-4131 FOR ANY QUESTIONS ON DRIVEWAYS SHOWN IN THE PLANS; SPECIFICALLY IN REFERENCE TO ADDITIONAL AND/OR RELOCATION/REMOVAL OF A DRIVEWAY.

COMBINATION CONCRETE CURB & GUTTER SHALL BE MEASURED STRAIGHT ACROSS THE DRIVEWAY. NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR THE CURB & GUTTER TRANSITION.

1 (25) PREFORMED EXPANSION JOINT FILLER WILL NOT BE PAID SEPARATELY, BUT SHALL BE CONSIDERED INCLUDED IN THE COST OF THE P.C.C. DRIVEWAY PAVEMENT OR P.C.C. SIDEWALK.

WHEN THE P.C.C. SIDEWALK EXTENDS THROUGH THE DRIVEWAY, THE THICKNESS OF THE SIDEWALK IN THE DRIVEWAY AREA SHALL BE THE SAME AS THE DRIVEWAY THICKNESS. SIDEWALK WILL BE PAID FOR AS P.C.C. SIDEWALK OF THE THICKNESS SPECIFIED. SIDEWALK CROSS SLOPE THRU DRIVEWAY AREA TO BE A MAXIMUM OF 1:50.

SCALE: NONE

RURAL FIELD ENTRANCE (FE)

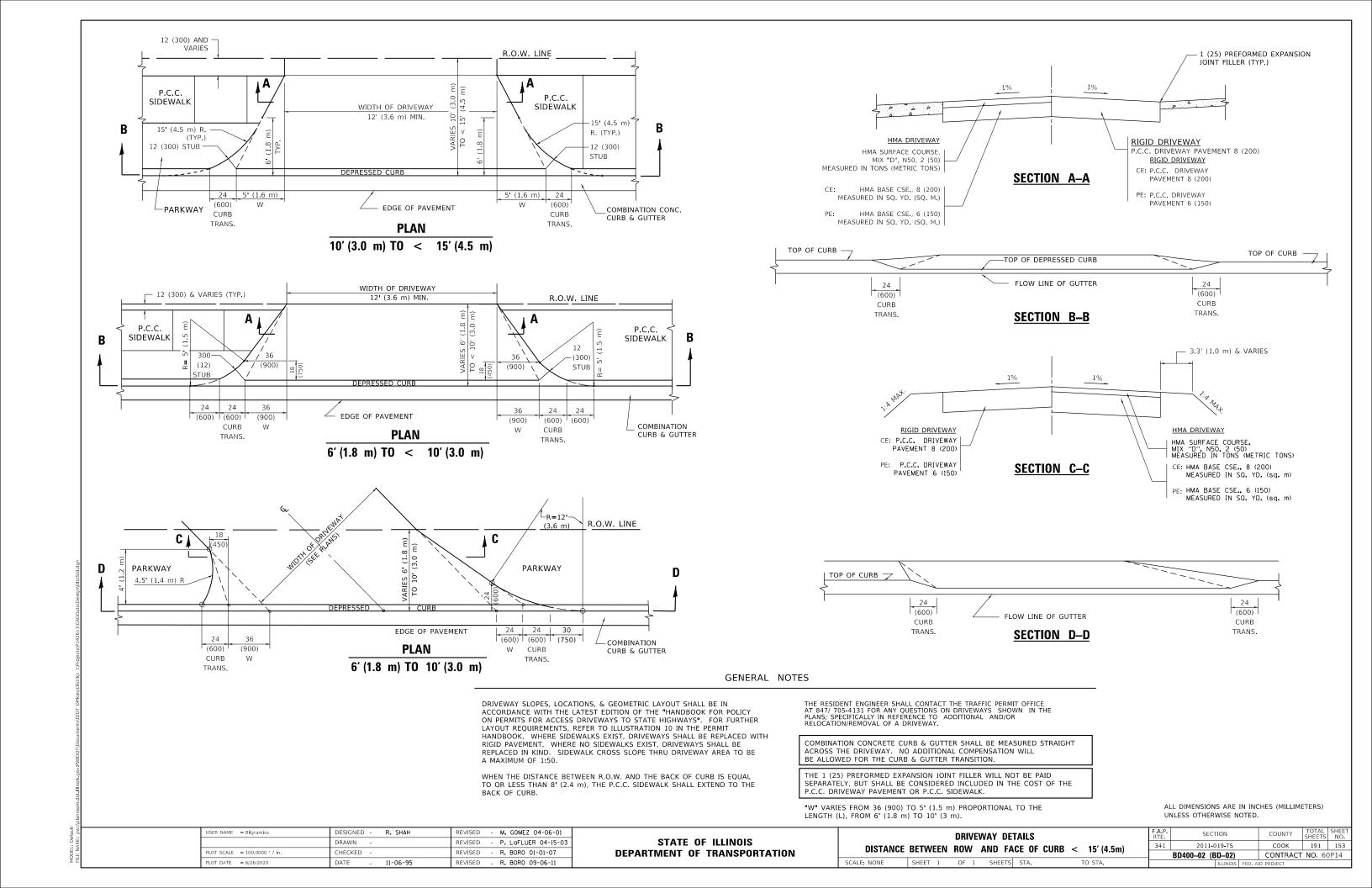
HMA SURFACE COURSE, MIX "D", N50, 2 (50) MEASURED IN TONS (METRIC TONS)

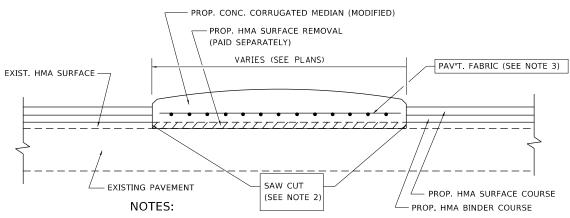
AGGREGATE BASE CSE., TYPE B, 8 (200) MEASURED IN SQ. YD. (m^2) .

USER NAME = Bilgramisa	DESIGNED - R. SHAH	REVISED - P. LaFLUER 04-15-03
	DRAWN -	REVISED - R. BORO 01-01-07
PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED - R. BORO 06-11-08
PLOT DATE = 6/26/2020	DATE - 11-04-95	REVISED - R. BORO 09-06-11

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

DRIVE	WAY DI	ETAILS -	DISTAN	CE BETWEE	F.A.P. RTE.	SECTION		COUNTY	TOTAL SHEETS	SHEET NO.	
AND FACE OF CURB & EDGE OF SHOULDER > 15'(4.5m)							2011-019-TS		соок	191	152
יאו שווי	OL OI C	JUILD C	LDGL OI	SHOOLDLII	В	D400-01 (BD-01)		CONTRACT NO. 60P14			
5	SHEET 1	OF 1	SHEETS	STA.	TO STA.		ILLINOIS F	ED. AID	PROJECT		

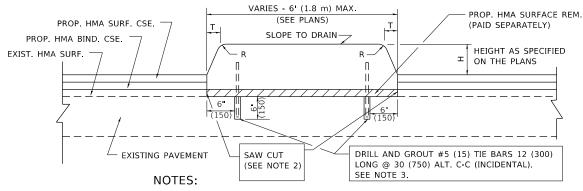




- CORRUGATED MEDIAN (MODIFIED) SHALL BE CONSTRUCTED IN ACCORDANCE WITH SECTION 606 OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE PORTIONS OF STATE STANDARD 606306.
- 2. WITH THE APPROVAL OF THE ENGINEER, THE CONTRACTOR
 MAY DELETE THE SAW CUT IF A NEAT JOINT CAN BE
 OBTAINED BY MILLING THE HMA SURFACE TO BE REMOVED.
 SAW CUT WILL BE INCLUDED IN THE COST OF CORRUGATED MEDIAN (MODIFIED)
- 3. PAVEMENT FABRIC WILL BE INCLUDED IN THE COST OF CORRUGATED MEDIAN (MODIFIED)

DETAILS FOR CORRUGATED MEDIAN (MODIFIED)

THIS WORK WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER SQUARE FOOT (SQUARE METER) FOR "CORRUGATED MEDIAN (MODIFIED)"



- H R T
 6(150) 1(25) 1(25)
 9(225) 1(25) 2(50)
- CONCRETE MEDIAN TYPE SB (DOWELLED) SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE APPLICABLE PORTIONS OF STATE STANDARD 606301 AND SECTION 606 OF THE STANDARD SPECIFICATIONS.
- 2. WITH THE APPROVAL OF THE ENGINEER, THE CONTRACTOR
 MAY DELETE THE SAW CUT IF A NEAT JOINT CAN BE
 OBTAINED BY MILLING THE HMA SURFACE TO BE REMOVED.
 SAW CUT WILL BE INCLUDED IN THE COST OF "CONCRETE MEDIAN TYPE SB (DOWELLED)"
- FOR MEDIAN WIDTH LESS THAN 4' (1.2 m) USE
 ONE ROW OF #5 (15) BARS @ 30 (750) C-C ALONG THE MEDIAN CENTERLINE.
 TIE BARS WILL BE INCLUDED IN THE COST OF "CONCRETE MEDIAN TYPE SB (DOWELLED)"

DETAILS FOR CONCRETE MEDIAN TYPE SB (DOWELLED)

THIS WORK WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER SQUARE FOOT (SQUARE METER) FOR "CONCRETE MEDIAN TYPE SB (DOWELLED)"

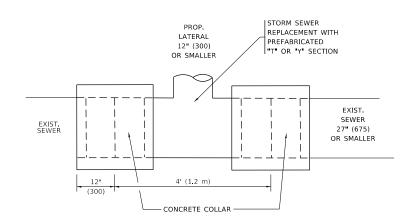
USER NAME = Bilgramisa	DESIGNED - M. DE YONG	REVISED -	R. SHAH 09-09-94
	DRAWN -	REVISED -	R. SHAH 10-25-94
PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -	E. GOMEZ 08-28-00
PLOT DATE = 6/26/2020	DATE - 05-14-80	REVISED -	R. BORO 01-01-07

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCALE: NONE

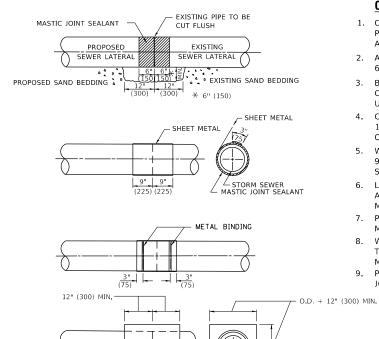
DETAIL	DETAILS FOR CONCRETE MEDIAN TYPE SB (DOWELLED)						SB (DOWELLED)	F.A.P. RTE	SEC ⁻	TION		COUNTY	TOTAL SHEETS	SHEET NO.
CORRUGATED MEDIAN (MODIFIED)						341	2011-0	019-TS		соок	191	154		
	- 00	11110	UAII		IVILDIAIN	(IVIOD	ii iebį	В	D600-02	(BD-5)	CONTRACT	NO. 60)P14
IONE	SHEET	1	OF	1	SHEETS	STA.	TO STA.			ILLINOIS	FFD. AI	D PROJECT		

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DETAIL "A"

LATERAL CONNECTION TO EXISTING SEWER OF 27" (675) OR SMALLER



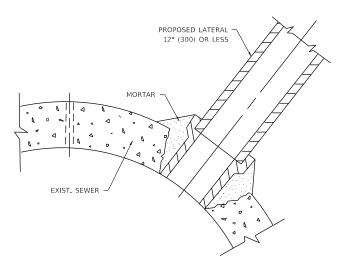
DETAIL "B"CLASS SI CONCRETE COLLAR

CONSTRUCTION SEQUENCE

- 1. CUT THE EXISTING END OF THE PIPE SO AS TO PRESENT A FLUSH BUTT JOINT. BRUSH AND CLEAN ALL PIPES
- 2. APPLY THE MASTIC JOINT SEALANT TO THE FIRST 6" (150) OF EACH PIPE.
- BUTT THE PIPES TOGETHER LEAVING A MINIMUM OF 12' x 6' (300 x 150) DEEP EXCAVATION UNDER AND AROUND EACH PIPE END.
- 4. CUT A PIECE OF SHEET METAL GAGE NO. 19 1.1 (0.0418) 18" (450) WIDE BY THE OUTSIDE CIRCUMFERANCE OF THE PIPE PLUS 3" (75) LONG.
- 5. WRAP THE SHEET METAL AROUND THE PIPES, 9" (225) ON EACH SIDE OF THE JOINT, STARTING AT THE TOP OF THE PIPE.
- 6. LAP THE SHEET METAL AT LEAST 3" (75)
 AT THE TOP OF THE PIPE AND PLACE THE
 MASTIC JOINT SEALANT BETWEEN THE LAP.
- 7. PLACE TWO METAL BANDS AROUND THE SHEET METAL AND TIGHTEN.
- 8. WIPE OFF ANY EXCESS MASTIC JOINT SEALANT THAT OOZES OUT FROM BETWEEN THE SHEET METAL AND THE PIPES.
- PLACE CLASS SI CONCRETE AROUND THE JOINT.

SCALE: NONE

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



DETAIL "C"

PROPOSED LATERAL
CONNECTION TO EXISTING SEWER
OF 30" (750) OR LARGER

NOTES:

MATERIAL

MATERIAL USED FOR THE TEE OR WYE SECTION SHALL BE COMPATIBLE WITH THE EXISTING STORM SEWER OR THE PROPOSED STORM SEWER.

CONSTRUCTION METHODS

- I. THIS WORK SHALL BE CONSTRUCTED IN CONFORMANCE WITH THE APPLICABLE PORTIONS OF SECTION 550 OF THE STANDARD SPECIFICATIONS.
- II. CONNECTION TO AN EXISTING STORM SEWER SHALL BE BY EITHER OF THE FOLLOWING METHODS:

 A) PROPOSED STORM SEWER CONNECTION TO EXISTING SEWER OF 27" (675) OR SMALLER SEE

 DETAIL "AND TOP"
 - B) PROPOSED STORM SEWER CONNECTION TO EXISTING SEWER OF 30" (750) OR LARGER SEE DETAIL "C".

IF THE EXISTING SEWER PIPE IS CRACKED, BROKEN OR OTHERWISE DAMAGED BY THE CONTRACTOR IN MAKING THE CIRCULAR OPENING, THE CONTRACTOR SHALL REPLACE THAT SECTION OF PIPE WITH PIPE EQUAL AND SIMILAR IN ALL RESPECTS TO THE PIPE IN THE EXISTING SEWER, IN A CAREFUL WORKMANLIKE MANNER, WITHOUT EXTRA COMPENSATION.

GENERAL

CARE MUST BE TAKEN TO PREVENT DEBRIS FROM ENTERING THE SEWER. ALL DEBRIS WHICH ENTERS THE SEWER MUST BE REMOVED. THE SEWER MUST BE LEFT CLEAN AND UNOBSTRUCTED UPON COMPLETION OF THE CONTRACT.

CARE MUST BE TAKEN TO PREVENT ANY PART OF THE NEW PIPE CONNECTION FROM PROJECTING INTO THE EXISTING SEWER,

BASIS OF PAYMENT

TEE OR WYE CONNECTIONS SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE EACH FOR STORM SEWER TEE OR WYE OF THE TYPE AND SIZE SPECIFIED IN THE PLANS, THIS PRICE SHALL INCLUDE ALL EXCAVATION OF THE TRENCH, REMOVAL OF THE EXISTING STORM SEWER, FURNISHING AND INSTALLING THE SPECIFIED TEE OR WYE SECTION, FURNISHING AND INSTALLING THE REQUIRED CONCRETE COLLAR, AND ALL OTHER MATERIAL NECESSARY TO COMPLETE THIS WORK AS SHOWN AND SPECIFIED.

REMOVAL AND REINSTALLATION OF EXISTING STORM SEWER ADJACENT TO THE PROPOSED TEE OR WYE SECTION, FOR THE PURPOSE OF FACILITATING THE INSTALLATION OF THE TEE OR WYE SECTION, WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THE WORK.

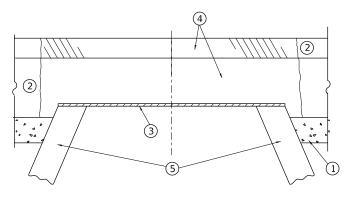
TRENCH BACKFILL, EXCAVATION IN ROCK AND REMOVAL AND REPLACEMENT OF UNSUITABLE MATERIAL BELOW PLAN BEDDING GRADE WILL BE PAID FOR SEPARATELY.

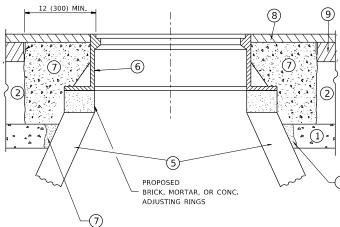
CONCRETE COLLAR FOR CONNECTING A PROPOSED STORM SEWER TO AN EXISTING STORM SEWER WILL NOT BE PAID PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE COST OF THE PROPOSED STORM SEWER.

USER NAME = Bilgramisa	DESIGNED -	M. DE YONG	REVISED	-	M. DE YONG 5-8-92
	DRAWN -		REVISED	-	R. SHAH 09-09-94
PLOT SCALE = 100.0000 / in.	CHECKED -		REVISED	-	R. SHAH 10-25-94
PLOT DATE = 6/26/2020	DATE -	07-25-90	REVISED	-	R. SHAH 06-12-96

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

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NOTES

EXISTING BROKEN FRAMES AND LIDS SHALL BE REMOVED AND DISPOSED OF BY THE CONTRACTOR AND SHALL BE REPLACED AS DIRECTED BY THE ENGINEER. REPLACEMENT FRAMES AND LIDS WILL BE PAID FOR IN ACCORDANCE WITH ARTICLE 109.04 OF THE STANDARD SPECIFICATIONS UNLESS A SEPARATE PAY ITEM HAS BEEN PROVIDED.

IF THE EXISTING LIDS ARE OPEN, THE FRAME WILL BE ADJUSTED TO THE ELEVATION OF THE MILLED PAVEMENT SURFACE PRIOR TO THE MILLING OPERATION. THE FRAME WILL NOT BE REMOVED AND COVERED BY THE METAL PLATE.

CITY OF CHICAGO CASTINGS ARE THE PROPERTY OF THE CITY AND THE CONTRACTOR SHALL NOTIFY THE CITY FOR REMOVAL AND DISPOSITION OF THE CASTINGS.

THE METAL PLATE USED TO COVER THE STRUCTURE SHALL REMAIN THE PROPERTY OF THE CONTRACTOR.

WHEN STRUCTURES ARE TO BE ADJUSTED OR RECONSTRUCTED, THE LOWERING AND RAISING OF THE FRAMES AND LIDS WILL NOT BE PAID FOR SEPARATELY BUT WILL BE INCLUDED IN THE COST OF THE CORRESPONDING PAY ITEM.

CONSTRUCTION PROCEDURES

STAGE 1 (BEFORE PAVEMENT MILLING)

- A) REMOVE A MINIMUM OF 12 (300) OF THE PAVEMENT FROM AROUND THE STRUCTURE.
- B) REMOVE THE EXISTING FRAME AND LID FROM THE STRUCTURE.
- C) COVER THE STRUCTURE OPENING WITH A 36 (900) DIAMETER METAL PLATE.
- D) BACKFILL WITH CRUSHED STONE AND A MINIMUM 1½ (40)
 THICK HMA SURFACE MIX APPROVED BY THE ENGINEER.

STAGE 2 (AFTER PAVEMENT MILLING)

- A) REMOVE THE HMA SURFACE MIX AND CRUSHED STONE.
- B) INSTALL THE FRAME AND LID; ADJUST THE FRAME TO ITS FINAL SURFACE ELEVATION.
- C) THE SURROUNDING SPACE SHALL BE FILLED WITH CLASS PP-1 *
 CONCRETE TO THE ELEVATION OF THE SURFACE OF THE EXISTING
 BASE COURSE OR THE BINDER COURSE.
- f * UNLESS OTHERWISE SPECIFIED IN THE PLANS.

THE PROCEDURE EXPLAINED ABOVE SHALL CONFORM TO THE APPLICABLE PORTIONS OF SECTIONS 353, 406, 602, AND 603 OF THE STANDARD SPECIFICATIONS EXCEPT THAT "THE CONTRACTOR SHALL ADJUST THE STRUCTURES TO THE FINISHED PAVEMENT ELEVATION NO MORE THAN 5 CALENDAR DAYS PRIOR TO PLACEMENT OF THE FINAL LIFT OF SURFACE UNLESS APPROVED BY THE ENGINERS "

LEGEND

- ① SUB-BASE GRANULAR MATERIAL
- 6 FRAME AND LID (SEE NOTES)
- 2 EXISTING PAVEMENT
- (7) CLASS PP-1 *CONCRETE
- 3 36 (900) DIAMETER METAL PLATE
- 8) PROPOSED HMA SURFACE COURSE
- PROPOSED CRUSHED STONE AND HMA SURFACE MIX

 (5) EXISTING STRUCTURE
- 9 PROPOSED HMA BINDER COURSE

LOCATION OF STRUCTURES

THE CONTRACTOR WILL BE REQUIRED TO KEEP A RECORD OF THE LOCATIONS OF THE BURIED STRUCTURES ACCORDING TO THE STATION AND DISTANCE LEFT OR RIGHT OF THE CENTERLINE OF PAVEMENT. UPON COMPLETION OF THE WORK, THE CONTRACTOR WILL DELIVER THE RECORD TO THE ENGINEER.

BASIS OF PAYMENT

REMOVING FRAMES AND LIDS ON DRAINAGE AND UTILITY STRUCTURES IN THE PAVEMENT PRIOR TO MILLING, AND ADJUSTING TO FINAL GRADE PRIOR TO PLACING THE SURFACE COURSE, WILL BE PAID FOR AT THE CONTRACT UNIT PRICE EACH FOR "FRAMES AND LIDS TO BE ADJUSTED (SPECIAL)."

THIS WORK WILL NOT BE PAID FOR WHEN DRAINAGE AND UTILITY STRUCTURES ARE SPECIFIED FOR PAYMENT AS STRUCTURE RECONSTRUCTION.

NEW FRAMES AND LIDS, WHEN SPECIFIED, WILL BE PAID FOR SEPARATELY.

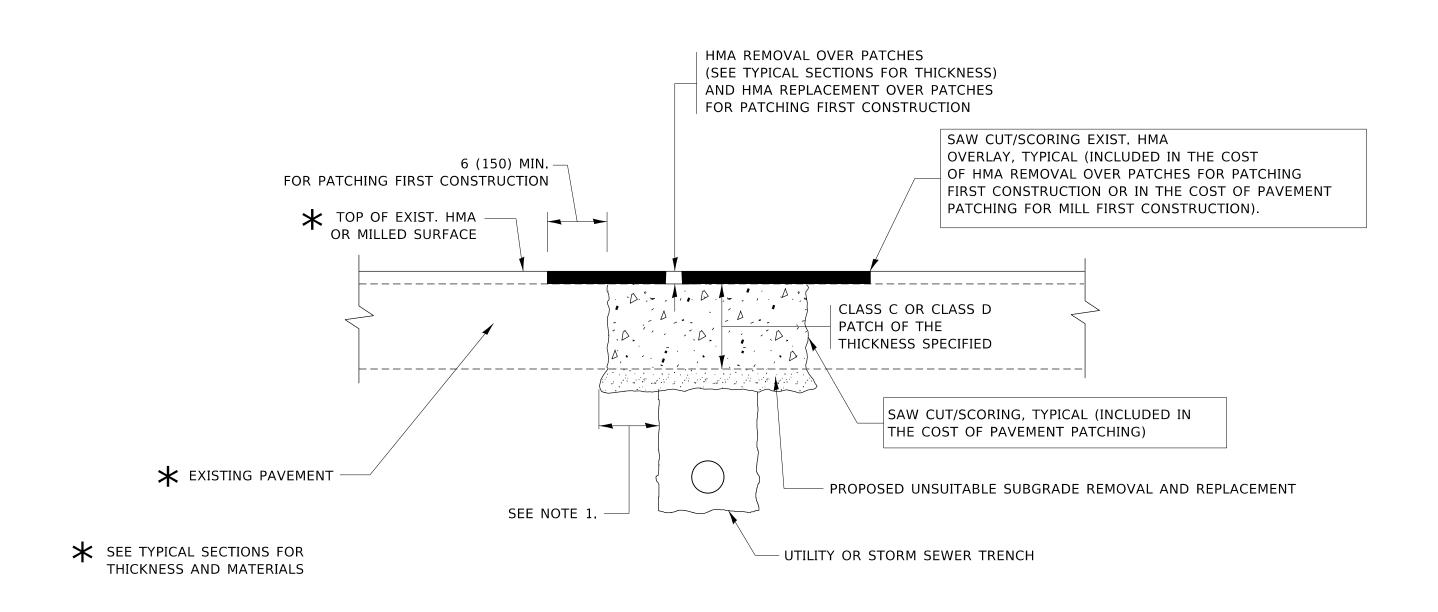
DETAILS FOR FRAMES AND LIDS ADJUSTMENT WITH MILLING

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

FRAMES AND LIDS ADJUSTMENT WITH MILLING

SHEET 1 OF 1 SHEETS STA. TO STA.



NOTES:

- 1. THE WIDTH OF THE FULL DEPTH PATCH OVER A TRENCH SHALL BE 12 (300) WIDER ON EACH SIDE OF THE TRENCH.
- 2. FOR METHOD OF MEASUREMENT AND BASIS OF PAYMENT, SEE RECURRING SPECIAL PROVISION "PATCHING WITH HOT-MIX ASPHALT OVERLAY REMOVAL".

SEQUENCE OF CONSTRUCTION (PATCHING FIRST)

- 1. REMOVE THE EXISTING HMA MATERIAL OVER THE AREA TO BE PATCHED.
- 2. REMOVE AND REPLACE WITH CLASS C OR D PATCH.
- 3. REPLACE HMA MATERIAL OVER THE AREA TO BE PATCHED.

SEQUENCE OF CONSTRUCTION (MILLING FIRST)

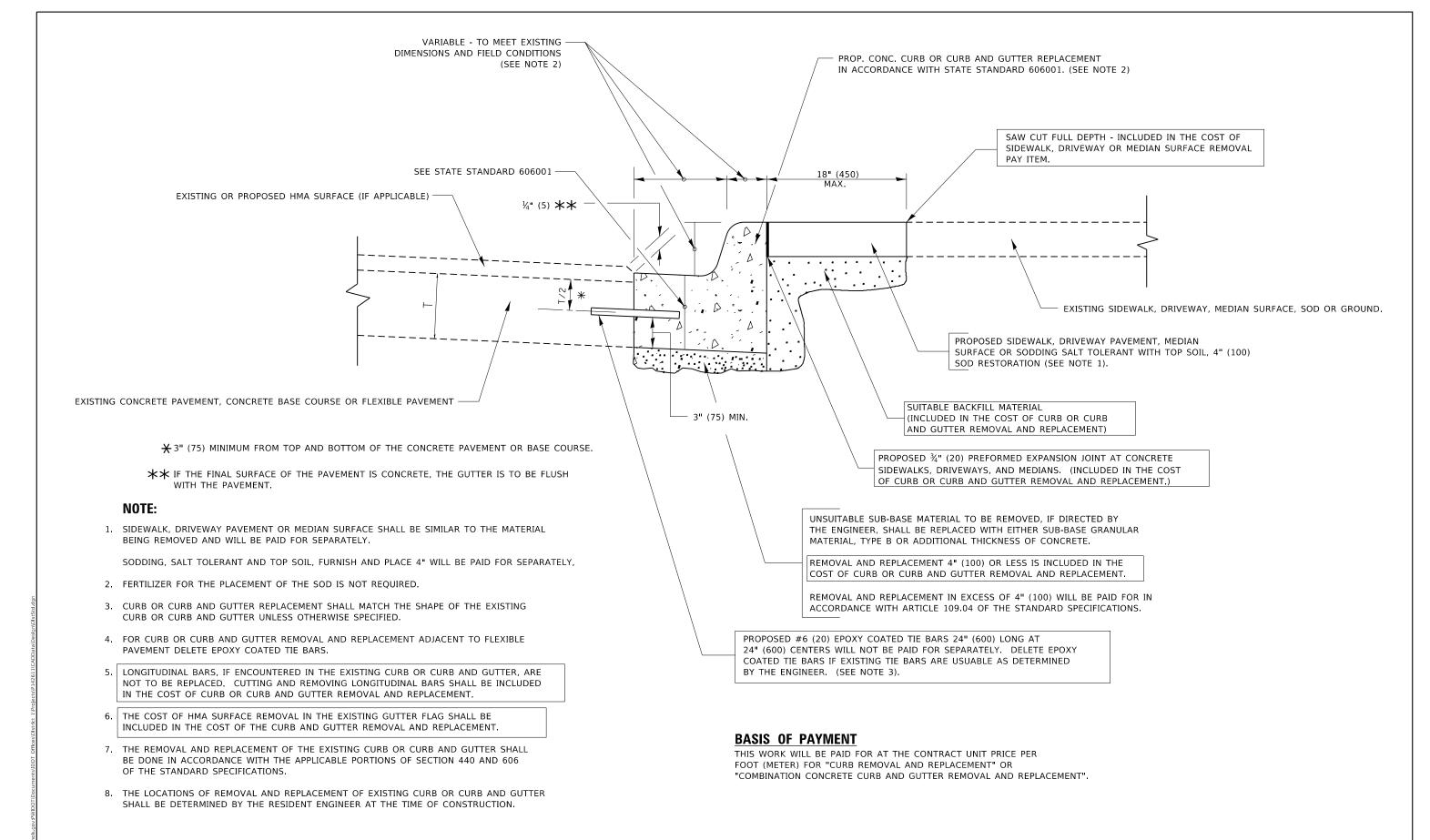
- 1. MILL HMA FIRST IF THERE IS AT LEAST $4\frac{1}{2}$ INCHES OR MORE OF HMA MATERIAL ON TOP OF THE EXISTING PAVEMENT OR IF THE PAVEMENT IS FULL DEPTH HMA. A MINIMUM OF 2 INCHES OF HMA MATERIAL SHALL BE IN PLACE AFTER MILLING.
- 2. REMOVE AND REPLACE WITH FULL DEPTH CLASS D PATCHES TO TOP OF MILLED SURFACE.

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

OSEN NAME = DIIGIAIIIISA	DESIGNED - R. SHARI	KENIZED -	A. ADDAS 04-27-90
	DRAWN -	REVISED -	R. BORO 01-01-07
PLOT SCALE = 100.0000 / in.	CHECKED -	REVISED -	R. BORO 09-04-07
PLOT DATE = 6/26/2020	DATE - 10-25-94	REVISED -	K. ENG 10-27-08

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

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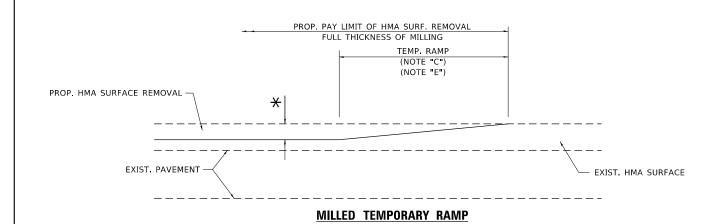
CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT

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

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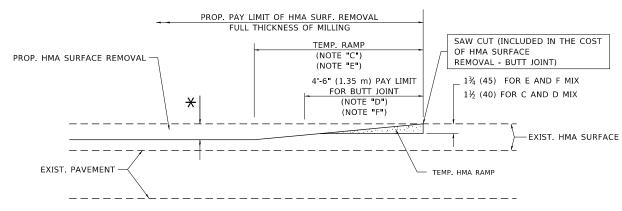
191 158 CONTRACT NO. 60P14

USER NAME = Bilgramisa	DESIGNED - A. HOUSEH	REVISED - R. SHAH 10-03-96	CTATE OF HUMOIC	CURB OR CURB AND GUTTER	F.A.F RTE	SECTION	
	DRAWN -	REVISED - A. ABBAS 03-21-97	STATE OF ILLINOIS	REMOVAL AND REPLACEMENT	341	1 2011-019-TS	۲S
PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED - M. GOMEZ 01-22-01	DEPARTMENT OF TRANSPORTATION	REWOVAL AND REFEACEIVENT		BD600-06 (BD-24	24)
PLOT DATE = 6/26/2020	DATE - 03-11-94	REVISED - R. BORO 12-15-09		SCALE: NONE SHEET 1 OF 1 SHEETS STA. TO STA.		ILLING	IOIS FED



(FOR BUTT JOINT AND HMA TAPER SEE DETAIL BELOW)

OPTION 1

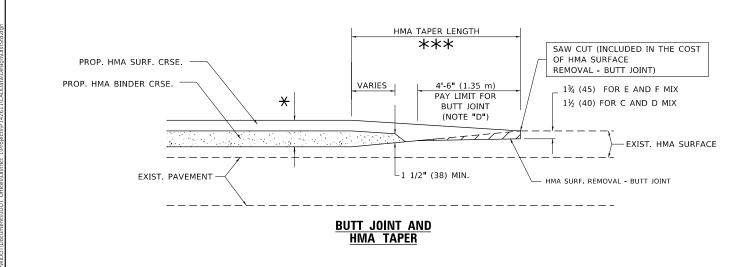


HMA CONSTRUCTED TEMPORARY RAMP

(FOR BUTT JOINT AND HMA TAPER SEE DETAIL BELOW)

OPTION 2

TYPICAL TEMPORARY RAMP



TYPICAL BUTT JOINT AND HMA TAPER FOR MILLING AND RESURFACING

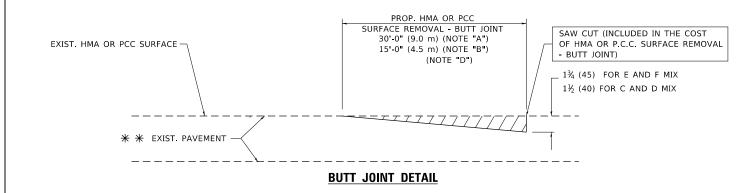
 USER NAME
 = Bilgramisa
 DESIGNED
 M. DE YONG
 REVISED
 R. SHAH 10-25-94

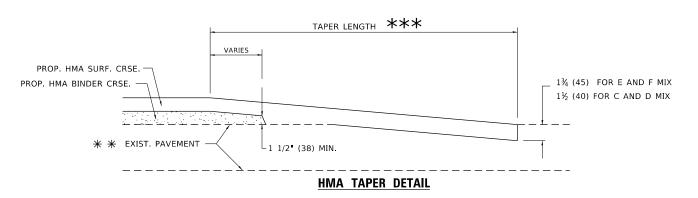
 DRAWN
 REVISED
 A. ABBAS 03-21-97

 PLOT SCALE
 = 100,0000 ' / in.
 CHECKED
 REVISED
 M. GOMEZ 04-06-01

 PLOT DATE
 = 6/26/2020
 DATE
 06-13-90
 REVISED
 R.BORO 01-01-07

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION





TYPICAL BUTT JOINT AND HMA TAPER FOR RESURFACING ONLY

** PC CONCRETE, HMA OR HMA RESURFACED PAVEMENT.

NOTES

- A. MAINLINE ROADWAYS AND MAJOR SIDE ROADS.
- B. MINOR SIDE ROADS.
- C. THE TEMP. RAMP SHALL BE CONSTRUCTED IMMEDIATELY UPON REMOVAL OF THE EXISTING HMA SURFACE.
- D. THE BUTT JOINT SHALL BE CONSTRUCTED IMMEDIATELY PRIOR TO PLACING THE PROPOSED HMA COURSES.
- E. TAPER THE TEMP. RAMP AT A RATE OF 3'-0" (900 mm) PER 1 INCH (25 mm) OF MILLING THICKNESS.
- F. INSTALLATION AND REMOVAL OF THE 4'-6" (1.35 m) TEMP. RAMP IS INCLUDED IN COST OF HMA SURFACE REMOVAL BUTT JOINT.

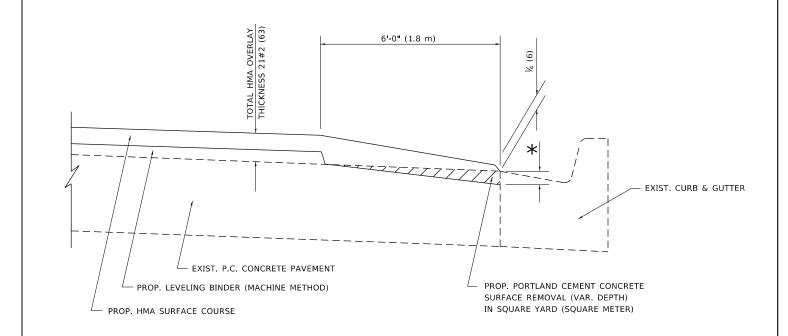
 ** SEE TYPICAL SECTIONS FOR MILLING THICKNESS.
- G. SEE ARTICLE 406.08 AND 406.14 OF THE STANDARD SPECIFICATIONS FOR "HMA AND/OR PCC SURFACE REMOVAL, BUTT JOINT".
- *** 20'-0" (6.1 m) PER 1 (25) RESURFACING (NOTE "A") 10'-0" (3.0 m) PER 1 (25) RESURFACING (NOTE "B")

BASIS OF PAYMENT

THE BUTT JOINT WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER SQUARE YARD (SQUARE METER) FOR "HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT" OR FOR "PORTLAND CEMENT CONCRETE SURFACE REMOVAL-BUTT JOINT".

SCALE: NONE

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



HMA TAPER AT EDGE OF P.C.C PAVEMENT

HMA SURFACE		LEVELING BINDER	
MIX	THICKNESS	THICKNESS	* MILLING AT GUTTER FLAG
C OR D	1½ (38)	1 (25)	11/4 (33)
E	1¾ (44)	³⁄ ₄ (19)	1½ (38)

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

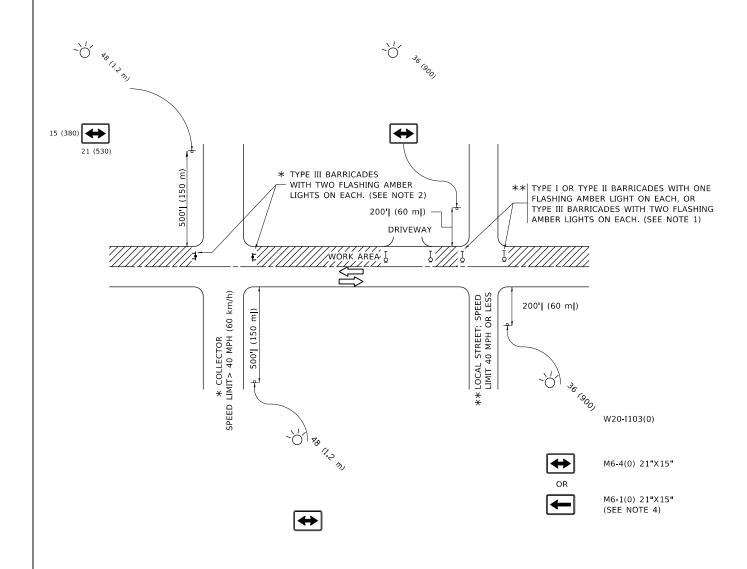
USER NAME = Bilgramisa	DESIGNED -	R. SHAH	REVISED	-	A. ABBAS 05-05-9
	DRAWN -	JIS	REVISED	-	E. GOMEZ 12-21-00
PLOT SCALE = 100.0000 ' / in.	CHECKED -	A. ABBAS	REVISED	-	R. BORO 01-01-07
PLOT DATE = 6/26/2020	DATE -	09-10-94	REVISED		JP CHANG 07-08-16

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

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		E	DGE OF	P.C.C. PA	AVEMENT
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NOTES:

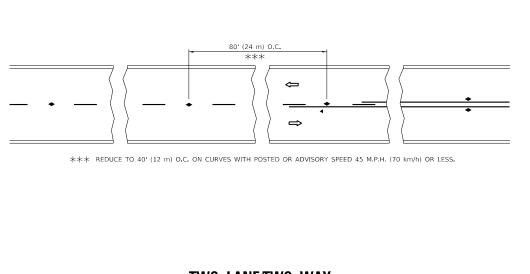
- 1. SIDE ROAD WITH A SPEED LIMIT OF 40 MPH (60 km/h) OR LESS AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
- a) ONE "ROAD CONSTRUCTION AHEAD" SIGN 36 x 36 (900x900) WITH A FLASHER MOUNTED ON IT APPROXIMATELY 200' (60 m) IN ADVANCE OF THE MAIN ROUTE.
- b) THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE I, TYPE II OR TYPE III BARRICADES, 1/3 OF THE CROSS SECTION OF THE CLOSED PORTION.
- 2. SIDE ROAD WITH A SPEED LIMIT GREATER THAN 40 MPH (60 km/h) AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
- a) ONE "ROAD CONSTRUCTION AHEAD" SIGN 48 x 48 (1.2 m x 1.2 m) WITH A FLASHER MOUNTED ON IT APPROXIMATELY 500' (150 m) IN ADVANCE OF THE MAIN ROUTE,
- THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY
 b) BLOCKING WITH TYPE III BARRICADES, 1/2 OF THE CROSS SECTION
 OF THE CLOSED PORTION.
- 3. CONES MAY BE SUBSTITUTED FOR BARRICADES OR DRUMS AT HALF THE SPACING DURING DAY OPERATIONS. CONES SHALL BE A MINIMUM OF 28 (710) IN HEIGHT
- WHEN THE SIDE ROAD LIES BETWEEN THE BEGINNING OF THE MAINLINE
 4. SIGNING AND THE WORK ZONE, A SINGLE HEADED ARROW (M6-1) SHALL
 BE USED IN LIEU OF THE DOUBLE HEADED ARROW (M6-4).

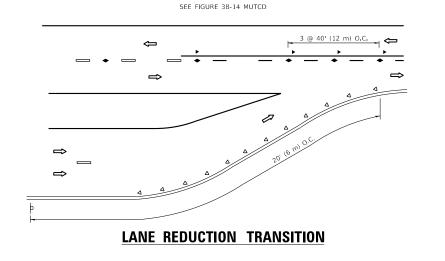
- 5. WHEN WORK IS BEING PERFORMED ON A SIDE ROAD OR DRIVEWAY, FOLLOW THE APPLICABLE STANDARD(S). THE DIRECTIONAL ARROW (M6-1 OR M6-4) SHALL BE COVERED OR REMOVED WHEN NO LONGER CONSISTENT WITH THE TRAFFIC CONTROL SET-UP.
- 6. ADVANCE WARNING SIGNS ARE TO BE OMITTED ON DRIVEWAYS UNLESS OTHERWISE SPECIFIED IN THE PLANS OR BY THE ENGINEER
- 7. THE TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS SHALL BE INCLUDED IN THE COST OF SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.

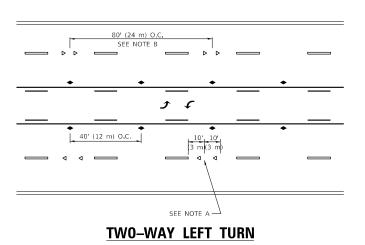
All dimensions are in inches (millimeters) unless otherwise shown.

USER NAME = Bilgramisa	DESIGNED - L.H.A.	REVISED - A. HOUSEH 10-15-96
	DRAWN -	REVISED - T. RAMMACHER 01-06-00
PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED - A. SCHUETZE 07-01-13
PLOT DATE = 6/26/2020	DATE - 06-89	REVISED A SCHUETZE 09-15-16

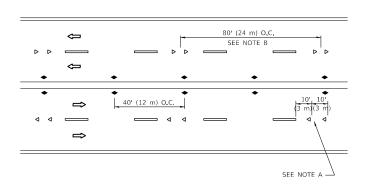
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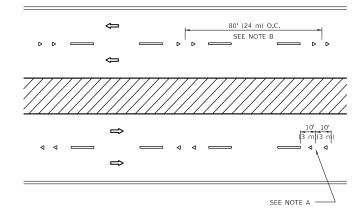






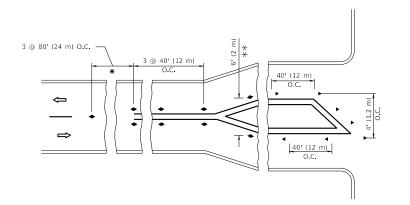
TW0-LANE/TW0-WAY

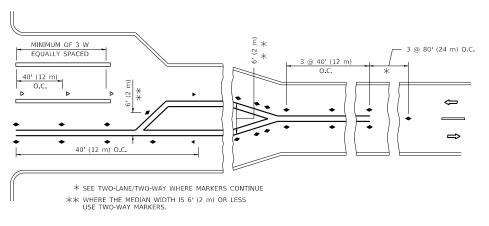




MULTI-LANE/UNDIVIDED







TURN LANES

GENERAL NOTES

- 1. MARKERS USED WITH DASHED LINES SHALL BE CENTERED IN THE GAP BETWEEN SEGMENTS.
- 2. MARKERS USED ADJACENT TO SOLID LINES SHALL BE OFFSET 2 TO 3 (50 TO 75) TOWARD TRAFFIC AS SHOWN.
- 3. MARKERS THROUGH TANGENTS LESS THAN 500' (150 m) IN LENGTH BETWEEN CURVES SHALL BE INSTALLED AT THE LESSER OF THE TWO CURVE SPACINGS.
- 4. MARKERS ARE TO BE USED ADJACENT TO BOTH SOLID WHITE LINES IN DUAL LEFT TURN LANES

LANE MARKER NOTES

- A. USE DOUBLE LANE LINE MARKERS SPACED AS SHOWN.
- B. REDUCE TO 40' (12 m) O.C. ON CURVES WHERE ADVISORY SPEEDS ARE 10 M.P.H (20 km/h) LOWER THAN POSTED SPEEDS.

DESIGN NOTES

- 1. DOUBLE LANE LINE MARKERS SHALL BE USED UNLESS SPECIFIED OTHERWISE.
- 2. EXCEPT AS SHOWN ON THE LANE REDUCTION TRANSITION AND FREEWAY EXIT
- 3. THE EXACT MARKER LIMITS, SPACING, AND COLOR SHALL BE INCLUDED IN
- 4. MARKERS SHOULD NOT BE USED ALONGSIDE CURBS EXCEPT FOR EXTREMELY INVOLVED.

All dimensions are in inches (millimeters) unless otherwise shown.

JSER NAME = Bilgramisa DESIGNED -REVISED - T. RAMMACHER 03-12-99 REVISED -T. RAMMACHER 01-06-00 DRAWN LOT SCALE = 100.0000 ' / in. HECKED REVISED -C. JUCIUS 09-09-09 C. JUCIUS 07-01-13 PLOT DATE = 6/26/2020 DATE REVISED -

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT) SHEET 1 OF 1 SHEETS STA.

SECTION 341 2011-019-TS COOK 191 162 CONTRACT NO. 60P14 TC-11

SYMBOLS

ONE-WAY AMBER MARKER

TWO-WAY AMBER MARKER

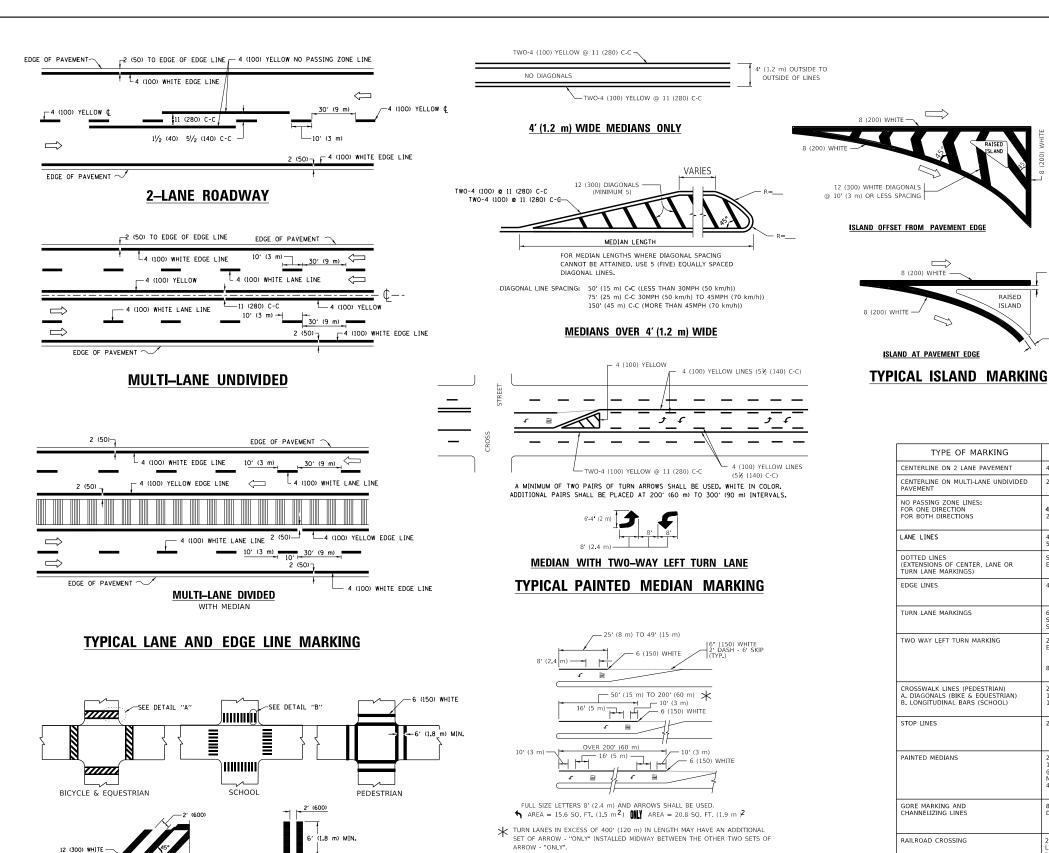
ONE-WAY CRYSTAL MARKER (W/O)

- YELLOW STRIPE

■ WHITE STRIPE

RAMP DETAIL, MARKERS ARE NOT TO BE SPECIFIED ON RIGHT EDGE LINES.

SHORT SECTIONS OF CURBS WHERE NOT MORE THAN TWO MARKERS WOULD BE



LANE REDUCTION TRANSITION * LANE REDUCTION ARROWS REQUIRED AT SPEEDS OF 45 MPH OR GREATER OR WHEN SPECIFIED IN PLANS. **U_TURN** TYPE OF MARKING WIDTH OF LINE PATTERN SPACING / REMARKS COLOR ENTERLINE ON 2 LANE PAVEMENT SKIP-DASH YELLOW 10' (3 m) LINE WITH 30' (9 m) SPACE SOLID YELLOW 11 (280) C-C NO PASSING ZONE LINES: FOR ONE DIRECTION FOR BOTH DIRECTIONS 5½ (140) C-C FROM SKIP-DASH CENTERLINE l1 (280) C-C **4 (100)** 2 @ 4 (100) YELLOW YELLOW OMIT SKIP-DASH CENTERLINE BETWEEN LANE LINES SKIP-DASH SKIP-DASH 10' (3 m) LINE WITH 30' (9 m) SPACE 4 (100) 5 (125) ON FREEWAYS DOTTED LINES (EXTENSIONS OF CENTER, LANE OR TURN LANE MARKINGS) SAME AS LINE BEING EXTENDED SKIP-DASH SAME AS LINE BEING EXTENDED 2 (600) LINE WITH 6 (1.8 m) SPACE EDGE LINES SOLID OUTLINE MEDIANS IN YELLOW 4 (100) YELLOW-LEFT WHITE-RIGHT 6 (150) LINE; FULL SIZE LETTERS & SYMBOLS (8' (2.4m) URN LANE MARKINGS SEE TYPICAL TURN LANE MARKING DETAIL 10' (3 m) LINE WITH 30' (9 m) SPACE FOR SKIP-DASH; 5½ (140) C-C BETWEEN SOLID LINE AND SKIP-DASH LINE SEE TYPICAL TWO-WAY LEFT TURN MARKING DETAIL TWO WAY LEFT TURN MARKING 2 @ 4 (100) EACH DIRECTION 8' (2.4m) LEFT ARROW 2 @ 6 (150) 12 (300) @ 45° 12 (300) @ 90° CROSSWALK LINES (PEDESTRIAN) A. DIAGONALS (BIKE & EQUESTRIAN) NOT LESS THAN 6 (1.8 m) APART 2 (600) APART LONGITUDINAL BARS (SCHOOL) SOLID (600) APART SEE TYPICAL CROSSWALK MARKING DETAILS. PLACE 4' (1.2 m) IN ADVANCE OF AND PARALLEL TO CROSSWALK, IF PRESENT, OTHERWISE, PLACE AT DESIRED STOPPING POINT, PARALLEL TO CROSSROAD CENTERLINE, WHERE POSCEID IE STOP LINES 24 (600) SOLID WHITE 11 (280) C-C FOR THE DOUBLE LINE SEE TYPICAL PAINTED MEDIAN MARKING. 2 @ 4 (100) WITH 12 (300) DIAGONALS @ 45° PAINTED MEDIANS SOLID YELLOW: TWO WAY TRAFFIC WHITE: ONE WAY TRAFFIC @ 45° NO DIAGONALS USED FO 4' (1.2 m) WIDE MEDIAN! 8 (200) WITH 12 (300) DIAGONALS @ 45° DIAGONALS: 15' (4.5 m) C-C (LESS THAN 30MPH (50 km/h)) 20' (6 m) C-C 30MPH (50 km/h) TO 45MPH (70 km/h)) 30' (9 m) C-C (OVER 45MPH (70 km/h)) GORE MARKING AND CHANNELIZING LINES 24 (600) TRANSVERSE LINES; "RR" IS 6' (1.8 m) LETTERS; 16 (400) LINE FOR "X" SEE STATE STANDARD 780001 AREA OF: "R"=3.6 SQ. FT. (0.33 m 2 EACH "X"=54.0 SQ. FT. (5.0 m 2 RAILROAD CROSSING SOLID WHITE 50' (15 m) C-C (LESS THAN 30MPH (50 km/h)) 75' (25 m) C-C (30 MPH (50 km/h) TO 45MPH (70 km/h)) 150' (45 m) C-C (OVER 45MPH (70 km/h)) SHOULDER DIAGONALS (REQUIRED FOR 12 (300) @ 45° SOLID WHITE - RIGHT YELLOW - LEFT SHOULDERS > 8') J TURN ARROW SEE DETAIL SOLID WHITE

COMBINATION

LEFT AND U-TURN

5'-4" (1620)

32 R (810)

— 2 (50)

2 (50)

RAISED

ISLAND

FOR FURTHER DETAILS ON PAVEMENT MARKING REFER TO STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND STATE STANDARD 780001.

SEE DETAIL

SOLID

2 ARROW COMBINATION

All dimensions are in inches (millimeters unless otherwise shown.

30.4 SF

D(FT)

665

750

SPEED LIMIT

45

50

55

EVERS JSER NAME = Bilgramisa DESIGNED -C. JUCIUS 09-09-09 DRAWN REVISED -C. JUCIUS 07-01-13 HECKED REVISED DATE C. JUCIUS 04-12-16 PLOT DATE = 6/26/2020 03-19-90 REVISED -

-12 (300) WHITE

DETAIL "B"

6 (150) WHITE

TYPICAL CROSSWALK MARKING

* MARKINGS SHALL BE INSTALLED PARALLEL TO THE CENTERLINE OF

DETAIL "A"

THE ROAD WHICH IT CROSSES

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

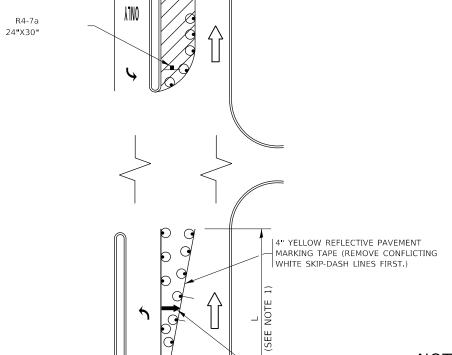
TYPICAL LEFT (OR RIGHT) TURN LANE

TYPICAL TURN LANE MARKING

	DISTRICT ONE										COUNTY	TOTAL SHEETS	SHEET NO.
	TYPICAL PAVEMENT MARKINGS										соок	191	163
	TIFICAL FAVENCINI MARKINGS										CONTRACT	NO. 60)P14
SCALE: NONE	CALE: NONE SHEET 1 OF 2 SHEETS STA. TO STA.									FED. A	ID PROJECT		

WHITE

TURN BAY ENTRANCE AT START OF LANE CLOSURE TAPER



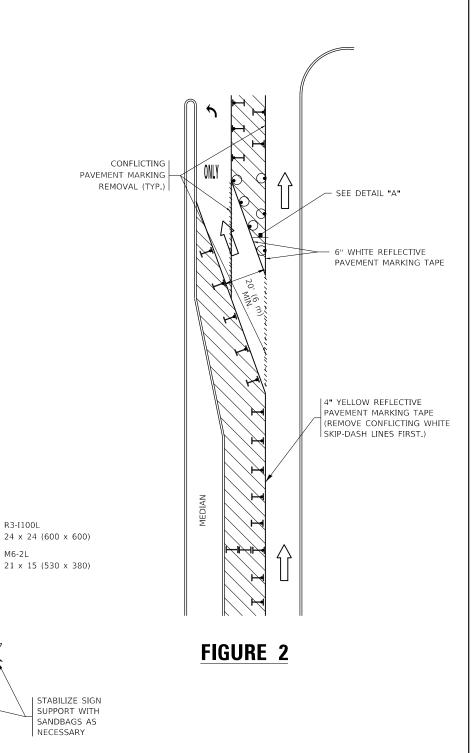
- ARROW BOARD

LEGEND WORK AREA LANE OPEN TO TRAFFIC ARROW BOARD TYPE I OR II BARRICADE OR DRUM WITH STEADY BURN LIGHT DRUM WITH STEADY BURN LIGHT SIGN ASSEMBLY TYPE I OR II CHECK BARRICADE WITH FLASHING LIGHT

NOTES:

- 1. A) WHEN "L" IS \leq THE STORAGE LENGTH OF THE TURN LANE (AS SHOWN IN FIG. 1), USE FIGURE 1.
 - B) WHEN "L" IS > THE STORAGE LENGTH OF THE TURN LANE
 OR THE TURN LANE IS WITHIN THE LANE CLOSURE, USE FIGURE 2.
- CONES MAY BE SUBSTITUTED FOR BARRICADES OR DRUMS AT HALF THE SPACING DURING DAY OPERATIONS. CONES SHALL BE A MINIMUM OF 28 (710) IN HEIGHT.
- LIGHTS WILL NOT BE REQUIRED ON BARRICADES OR DRUMS FOR DAY OPERATIONS. ALL LIGHTS SHALL BE MONODIRECTIONAL.
- 4. REFLECTIVE TEMPORARY PAVEMENT MARKINGS SHALL BE PLACED THROUGHOUT THE BARRICADED AREAS OF EACH TURN BAY AS SHOWN WHERE THE CLOSURE TIME IS GREATER THAN FOURTEEN (14) DAYS.
- 5. THIS APPLICATION ALSO APPLIES WHEN WORK IS BEING PERFORMED IN THE RIGHT LANE(S) AND THE RIGHT TURN BAY IS TO REMAIN OPEN. UNDER THIS CONDITION, "RIGHT TURN LANE" R3-I100R 24 x 24 (600 x 600) AND M6-2R 21 x 15 (530 x 380) SHALL BE USED.
- THESE CONTROLS SHALL SUPPLEMENT MAINLINE TRAFFIC CONTROL FOR LANE CLOSURES.
- THE SIGNS SHALL BE MOUNTED ABOVE THE BARRICADES/DRUMS ON SEPARATE SIGN SUPPORTS THAT MEET NCHRP 350 OR MASH PREOUIREMENTS.
- TRAFFIC CONTROL AND PROTECTION AT TURN BAYS (TO REMAIN OPEN TO TRAFFIC) SHALL BE INCLUDED IN THE COST OF SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.

TURN BAY ENTRANCE WITHIN A LANE CLOSURE



DETAIL A

SCALE: NONE

All dimensions are in inches (millimeters) unless otherwise shown.

PLOT DATE = 6/26/2020	DATE	- T.	RAMMACHER 01-06-00	REVISED	-	
PLOT SCALE = 100.0000 / in.	CHECKED	-	A. HOUSEH 10-12-96	REVISED	- A.	SCHUETZE 09-15-16
	DRAWN	-	A. HOUSEH 11-07-95	REVISED	- A.	SCHUETZE 07-01-13
USER NAME = Bilgramisa	DESIGNED	- T.	RAMMACHER 09-08-94	REVISED	-	R. BORO 09-14-09

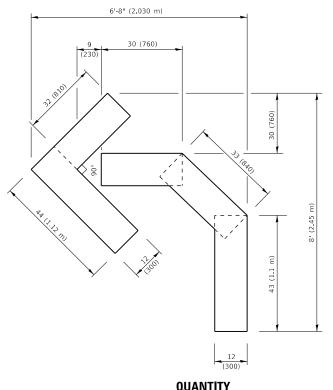
FIGURE 1

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFF	IC CONTRO	L AND	PROTEC	TION AT TURN	BAYS	F.A.P. RTE	SECTION		COUNTY	TOTAL SHEETS	SHEET NO.
	AFFIC CONTROL AND PROTECTION AT TURN BAYS (TO REMAIN OPEN TO TRAFFIC) SHEET 1 OF 1 SHEETS STA. TO STA.					341	2011-019-TS		соок	191	164
							TC-14		CONTRACT	NO. 60)P14
NF	(TO REMAIN OPEN TO TRAFFIC)		TO STA		ILLINOIS E	ED AID	PROJECT				

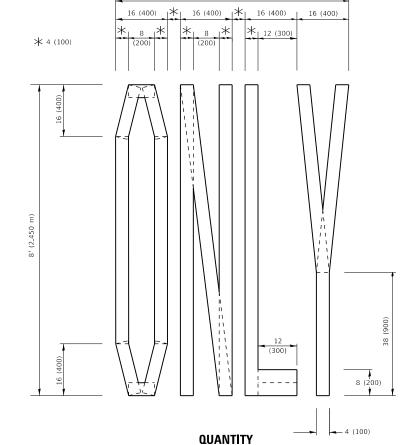
SEE DETAIL "A"

4ODEL: Detault ILE NAME: pw:\\planroon

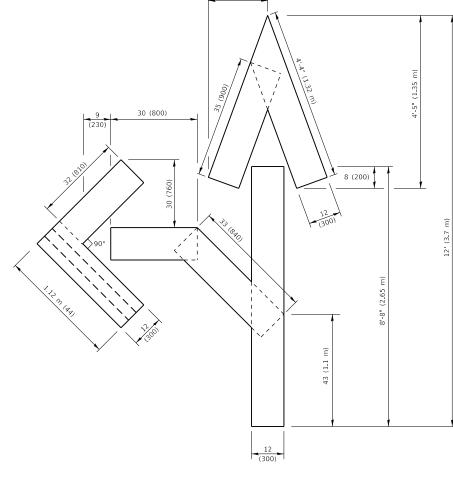


QUANTITY

4 (100) LINE = 45.5 ft. (13.9 m) 15.2 sq. ft. (1.41 sq. m)



4 (100) LINE = 64.1 ft. (19.5 m)



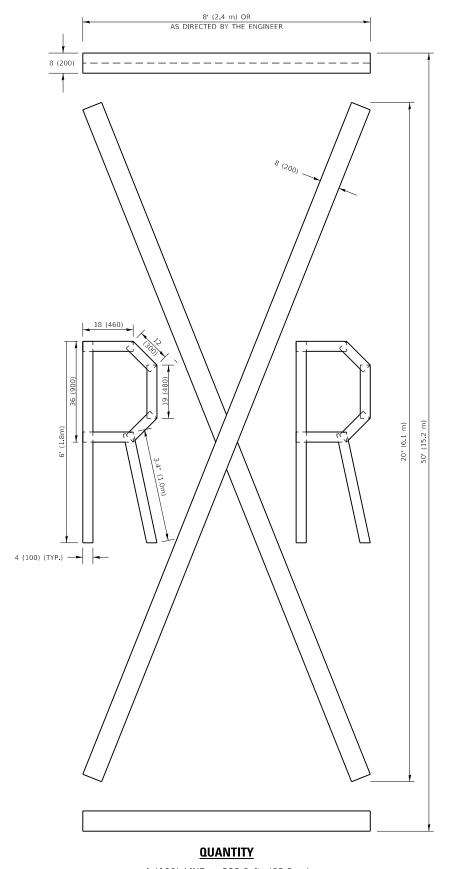
1'-8" (500)

QUANTITY

4 (100) LINE = 82.5 ft. (25.1 m) 27.5 sq. ft. (2.53 sq. m)

NOTE:

ALL QUANTITIES OF PLACEMENT ARE REPRESENTED IN LINEAR FEET OF 4" LINES TO MATCH THE 4" TEMPORARY TAPE PAY ITEM AND REPRESENTS THE TOTAL QUANTITY OF 4" TAPE REQUIRED.



4 (100) LINE = 225.9 ft. (68.9 m) 75.3 sq. ft. (6.99 sq. m)

> All dimensions are in inches (millimeters) unless otherwise shown.

USER NAME = BllgramIsa DESIGNED -REVISED - T. RAMMACHER 03-02-98 DRAWN REVISED - E. GOMEZ 08-28-00 LOT SCALE = 100,0010 ' / In. CHECKED REVISED - E. GOMEZ 08-28-00 PLOT DATE = 6/26/2020 DATE 09-18-94 REVISED - A. SCHUETZE 09-15-16

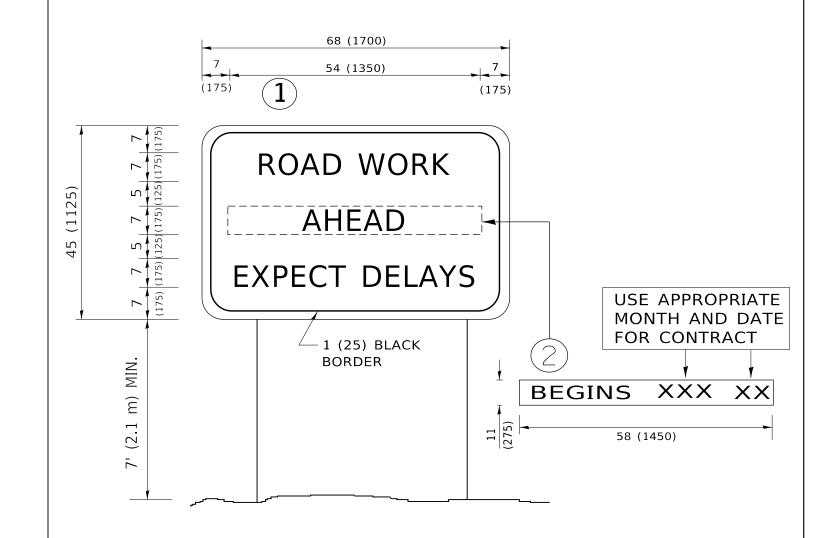
21.4 sq. ft. (1.99 sq. m)

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

SHORT TERM PAVEMENT MARKING LETTERS AND SYMBOLS SCALE: NONE SHEET 1 OF 1 SHEETS STA.

COUNTY TOTAL SHEET NO.

COOK 191 165 SECTION 2011-019-TS CONTRACT NO. 60P14 TC-16



NOTES:

- 1. USE BLACK LETTERING ON ORANGE BACKGROUND.
- 2. ERECT SIGNS IN ADVANCE OF THE LOCATION FOR THE "ROAD CONSTRUCTION AHEAD" SIGN AT LOCATIONS AS DIRECTED BY THE ENGINEER.
- 3. ERECT SIGN(1)WITH INSTALLED PANEL(2)ONE WEEK PRIOR TO THE START OF CONSTRUCTION.
- 4. REMOVE PANEL(2)SOON AFTER THE START OF CONSTRUCTION.
- 5. SEE SPECIAL PROVISION FOR "TEMPORARY INFORMATION SIGNING" FOR ADDITIONAL INFORMATION.

SHEET

6. ONE SIGN ASSEMBLY EQUALS 25.70 SQ. FT. (2.3 SQ. M.)

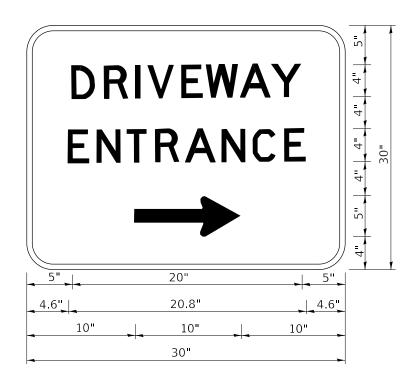
SCALE: NONE

7. SHALL BE PAID FOR AS TEMPORARY INFORMATION SIGNING.

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

USER NAME = Bilgramisa	DESIGNED -	REVISED	- R. MIRS 09-15-97
	DRAWN -	REVISED	- R. MIRS 12-11-97
PLOT SCALE = 100.0000 / in.	CHECKED -	REVISED	-T. RAMMACHER 02-02-99
PLOT DATE = 6/26/2020	DATE -	REVISED	- C. JUCIUS 01-31-07

	ART	ERIAL ROAD	F.A.P. RTE.	SECTION				
	INFOR	MATION SIGN	341	2011-019-TS				
	IIVI OII	WATION SIGN		TC-22				
1	OF 1	SHEETS STA.	TO STA.		ILLINOIS FED			



3.0" RADIUS, 0.5" BORDER, WHITE ON GREEN; REFLECTORIZED "DRIVEWAY" D; "ENTRANCE" D; STANDARD ARROW CUSTOM 12.0" x 5.0"

NOTES:

- 1. HALF OF THE SIGNS WILL REQUIRE A LEFT HAND FACING ARROW.
- 2. TWO SIGNS SHALL BE USED AT EACH COMMERCIAL ENTRANCE PLACED BACK-TO-BACK: ONE WITH A RIGHT HAND ARROW (SHOWN) SHALL BE PLACED ON THE NEAR RIGHT SIDE THE DRIVEWAY AND ONE WITH A LEFT HAND ARROW SHALL BE PLACED ON THE FAR LEFT SIDE OF THE DRIVEWAY.
- 3. SIGNS TO BE PAID FOR AS ITEM "TEMPORARY INFORMATION SIGNING".

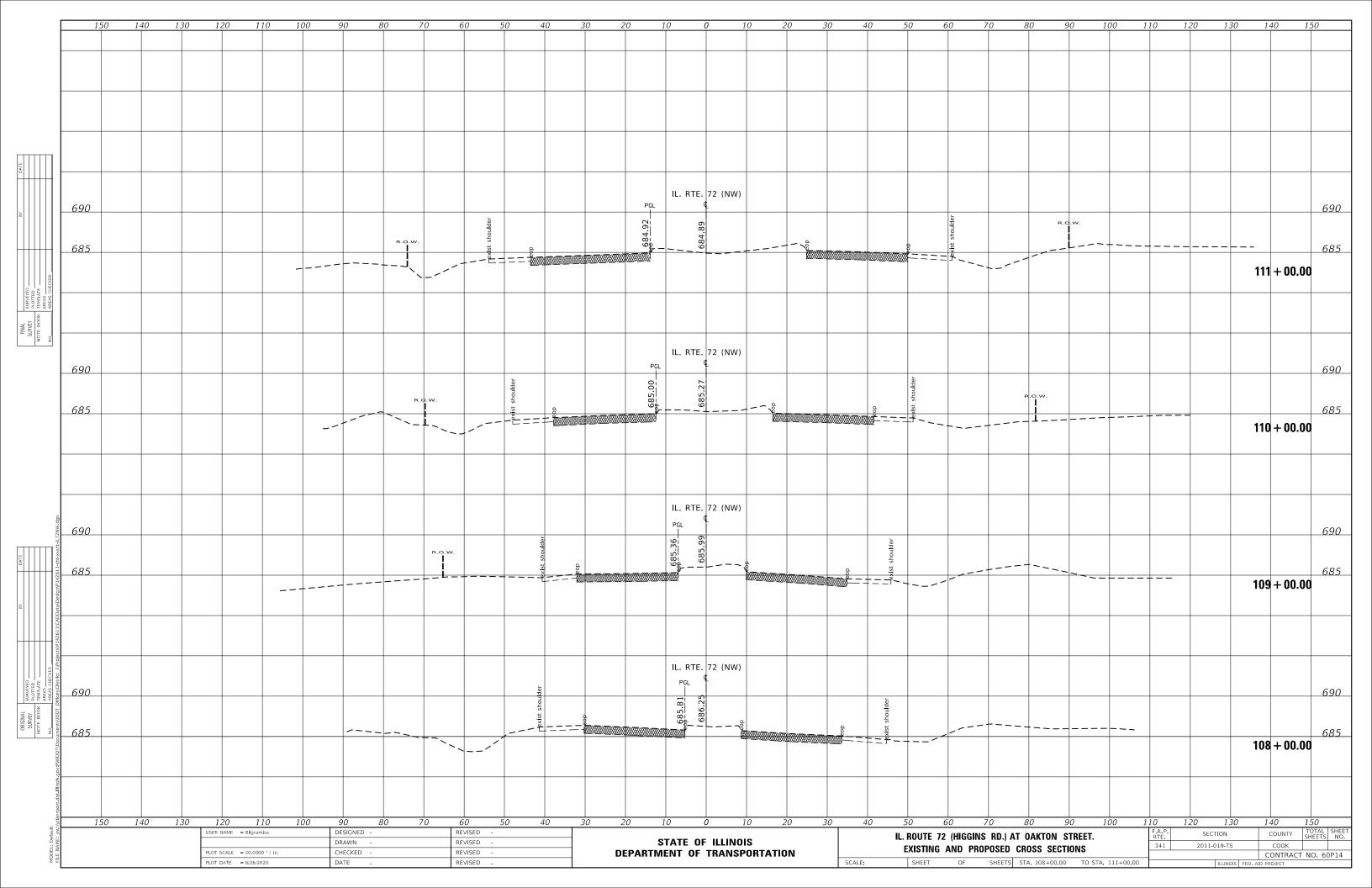
 USER NAME
 = Bilgramisa
 DESIGNED
 C, JUCIUS 02-15-07

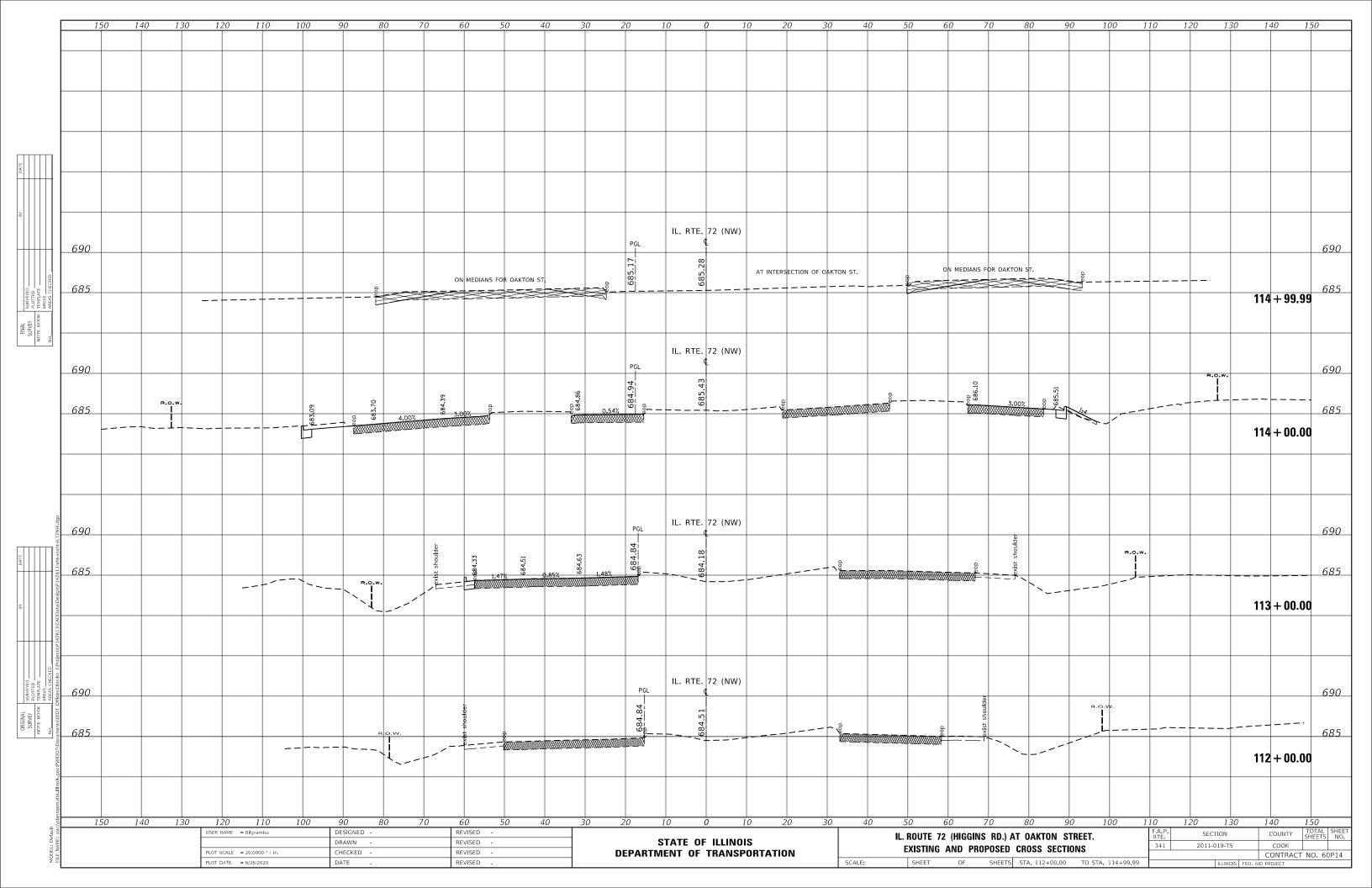
 DRAWN
 REVISED

 PLOT SCALE
 = 100.0000 '/ in.
 CHECKED
 REVISED

 PLOT DATE
 = 6/26/2020
 DATE
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION





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[Default	<u> </u>	PLOT DATE = 6/26		DATE -		REVISED -			PEI AIII				SCALE		SHEET OF		TA. 55+00.00 TO)	ILLINO	IS FED. AID PROJECT

