

FILE NAME =	USER NAME = \$USER\$	DESIGNED -	PKG	REVISED -	T
#FILEL#		DRAWN -	MAA, EA	REVISED -	
	PLOT SCALE = \$SCALE\$	CHECKED -	PKG, EA	REVISED -	1
	PLOT DATE = \$BATE\$	DATE -	5/10/2010	REVISED -	

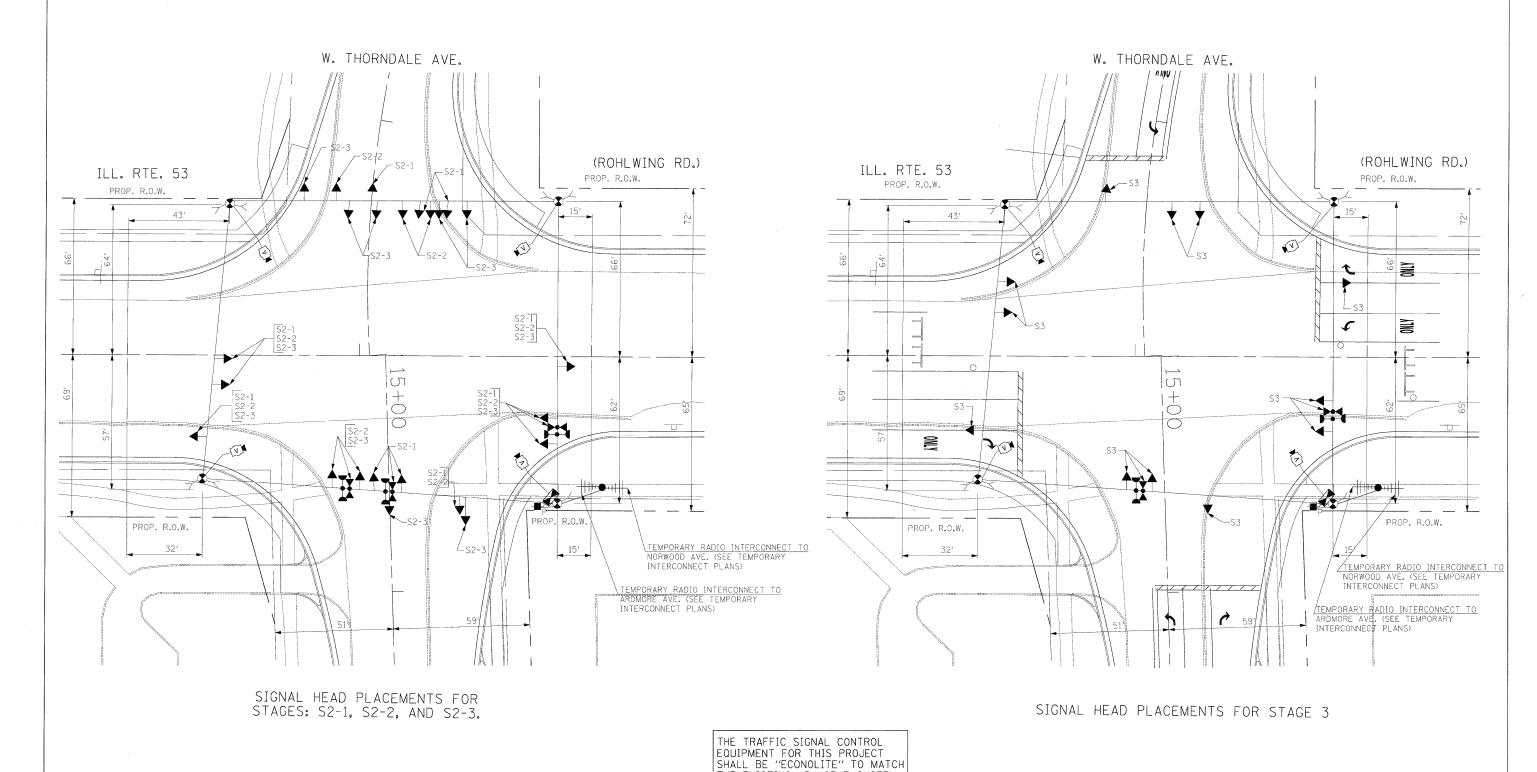
							ND REMOVAL PLAN IDALE AVE. PRE STAGE
			AN	D STAC	E 1 (SHEE	T 2 OF 4	l).
SCALE:	1''=20'	SHE	ET NO.	0F	SHEETS	STA.	TO STA.

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

-	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	2578	532B	DuPage	781	501
			CONTRACT	NO. 6	0477
	FED. RO	DAD DIST. NO ILLINOIS FED.	AID PROJECT		



NOTE: THE VIDEO DETECTION ZONES SHOWN ON THE PLANS ARE FOR CONSTRUCTION STAGE 1 - SUBSTAGE 1 AND SHALL BE REDEFINED FOR EACH CONSTRUCTION STAGE AS A PART OF "TEMPORARY TRAFFIC SIGNAL INSTALLATION" WORK.



FILE NAME = USER NAME = \$USER\$ DESIGNED PKG REVISED \$FILEL\$ DRAWN MAA, EA REVISED PLOT SCALE = \$SCALE\$ PKG, EA CHECKED REVISED PLOT DATE = \$DATE\$ 5/10/2010 REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

THE EXISTING ADJACENT SYSTEM.

TEMPORARY TRAFFIC SIGNAL INSTALLATION AND REMOVAL PLAN
ILLINOIS ROUTE 53 (ROHLWING RD.) AT W. THORNDALE AVE.

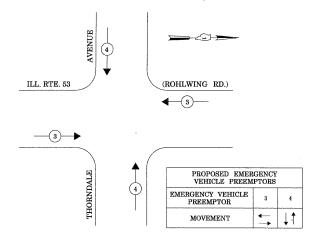
STAGE 2 AND STAGE 3 (SHEET 3 OF 4).

11'-20' SHEET NO. OF SHEETS STA. TO STA.

CONTROLLER SEQUENCE ILL. RTE. 53 (ROHLWING RD.) **4**−6)−− √(1)— LEGEND * DUAL ENTRY PHASE ◆ SINGLE ENTRY PHASE * O.L. OVERLAP (8) ✓---(*)---→ PEDESTRIAN PHASE

TEMPORARY PHASE DESIGNATION DIAGRAM STAGES: PRE-STAGE, S1-1, S1-2, S1-3, S2-1, S2-2, S2-3, S3, AND AFTER PROPOSED GEOMETRICS ARE BUILT

EMERGENCY VEHICLE PREEMPTION SEQUENCE



PKG

MAA. EA

PKG, EA

5/10/2010

DRAWN

DATE

CHECKED

REVISED

REVISED

REVISED

REVISED

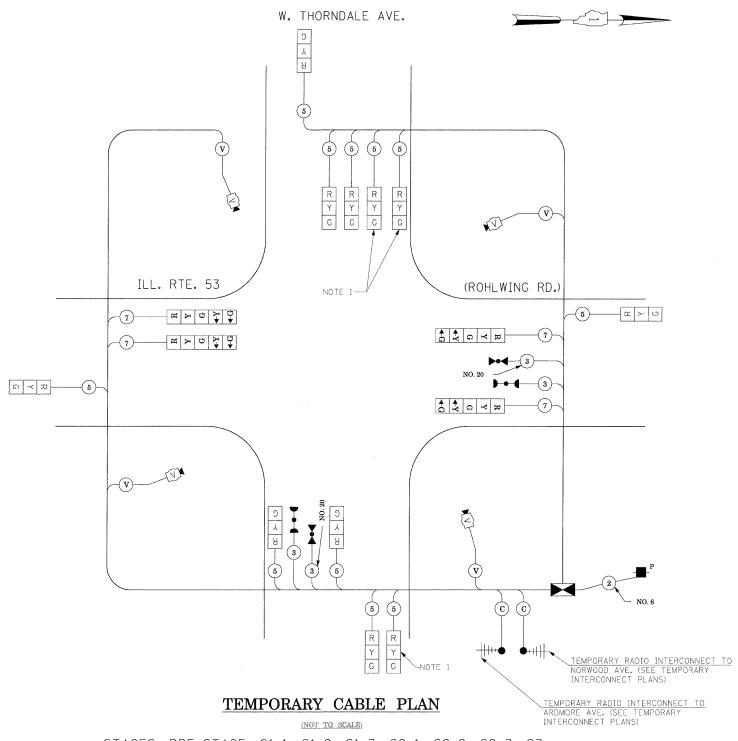
STAGES: PRE-STAGE, S1-1, S1-2, S1-3, S2-1, S2-2, S2-3, S3, AND AFTER PROPOSED GEOMETRICS ARE BUILT

	I.D.O.T. FFIC SIGNAL II RICAL SERVICE	TOTAL				
TYPE	NO LAMPS)	WATT	FAGE LED	%OPERATION	WATTAGE	E
SIGNAL (RED)	15	135	17	0.50	127.5	-
(YELLOW)	15	135	25	0.25	93,75	
(GREEN)	15	135	15	0.25	56.25	
ARROW	8	135	12	0.10	9,6	
PED. SIGNAL		90	25	1.00		
CONTROLLER	1	100	100	1.00	100	
ILLUM. SIGN			25	0.05		
VIDEO SYSTEM	1	150		1,00	150	
FLASHER				0,50		
ENERGY COSTS	TO:			TOTAL =	537.1	
201 WEST CE	EPARTMENT NTER COURT ILLINOIS 60196		SPORT	ATION		
ENERGY SUPPLY	PHONE:	CURTIS T (630) 691 COMMONWI	-4356	EDISON		
FILE NAME =		USER	VAME = 1	NICERA	T	DESIG

PLOT SCALE = \$SCALE\$

\$FILEL\$

NOTE 1: THE 3-SECTION SIGNAL HEADS WITH CIRCULAR RED, YELLOW, AND GREEN INDICATIONS SHOWN WITH NOTE 1 FOR THE WESTBOUND DIRECTION OF TRAFFIC ARE NEEDED ONLY DURING STAGE 2 - SUBSTAGE 3 CONSTRUCTION ONLY AND SHALL NOT BE USED IN ANY OTHER CONSTRUCTION STAGES.



STAGES: PRE-STAGE, S1-1, S1-2, S1-3, S2-1, S2-2, S2-3, S3, AND AFTER PROPOSED GEOMETRICS ARE BUILT

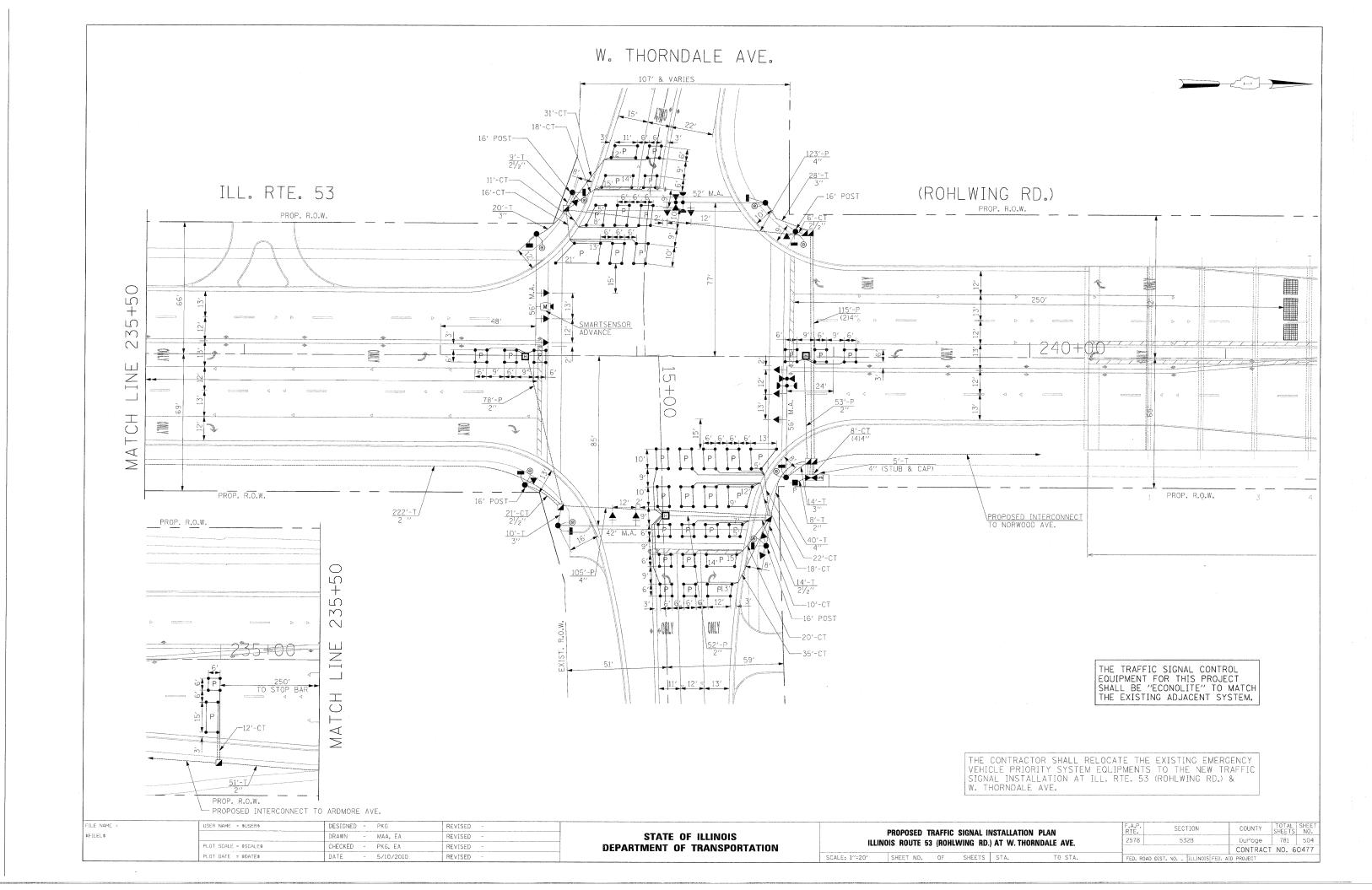
> THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS PROJECT SHALL BE "ECONOLITE" TO MATCH THE EXISTING ADJACENT SYSTEM.

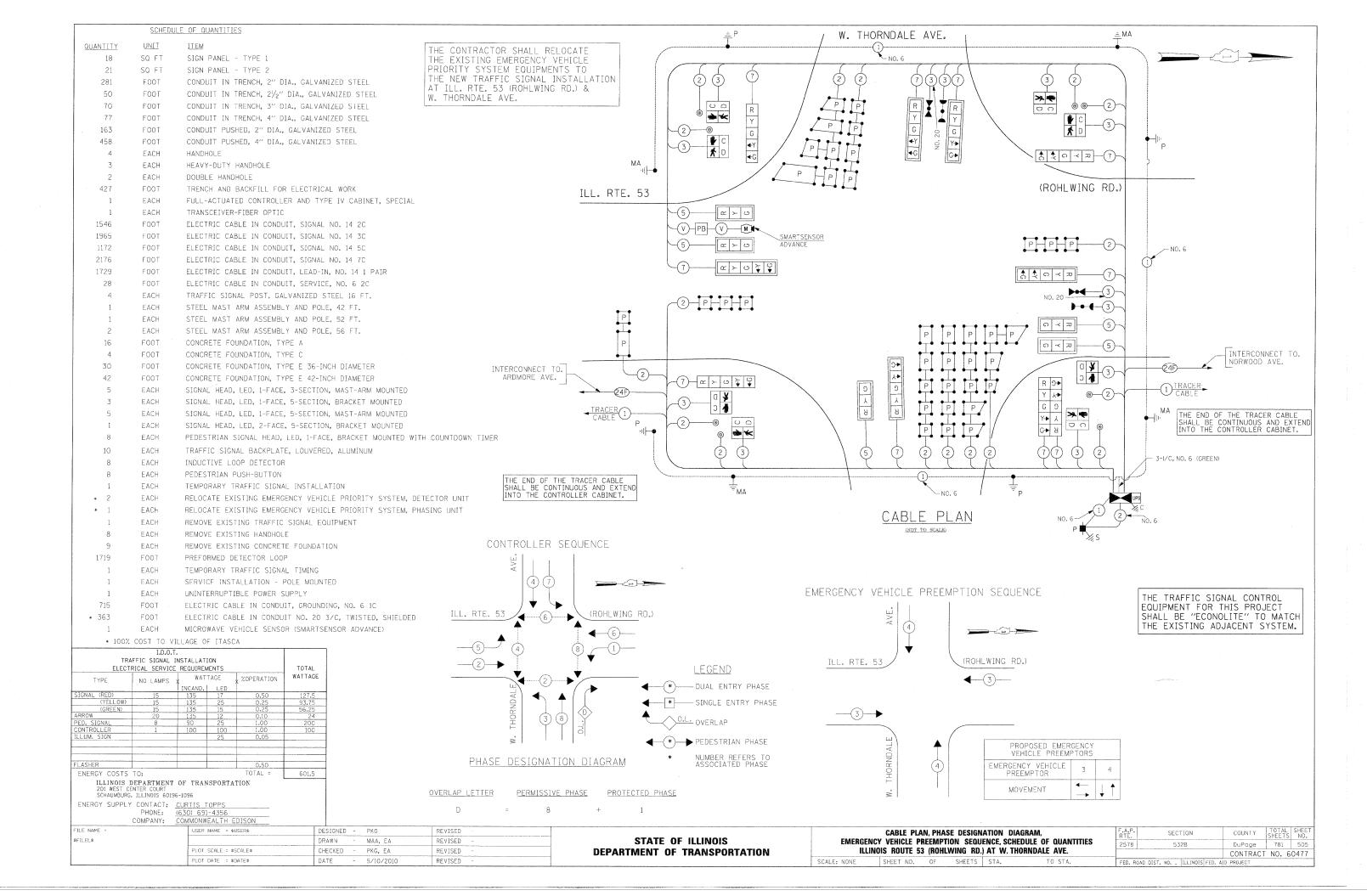
STATE OF ILLINOIS

TEMPORARY CABLE PLAN, TEMPORARY PHASE DESIGNATION DIAGRAM, TEMPORARY EMERGENCY VEHICLE PREEMPTION SEQUENCE ILLINOIS ROUTE 53 (ROHLWING RD.) AT W. THORNDALE AVE. PRE-STAGE, STAGE 1, STAGE 2, AND STAGE 3 (SHEET 4 OF 4). SCALE: NONE SHEETS STA.

SECTION DuPage 781 503 532B CONTRACT NO. 60477

DEPARTMENT OF TRANSPORTATION





NOTES FOR TEMPORARY TRAFFIC SIGNALS

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

THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR AND SHALL BE DISPOSED OF BY THEM OUTSIDE THE RIGH-OF-WAY AT THEIR EXPENSE. THE SALVAGE VALUE OF THE REMOVED EQUIPMENT SHALL BE REFLECTED IN THE CONTRACOR'S BID PRICE.

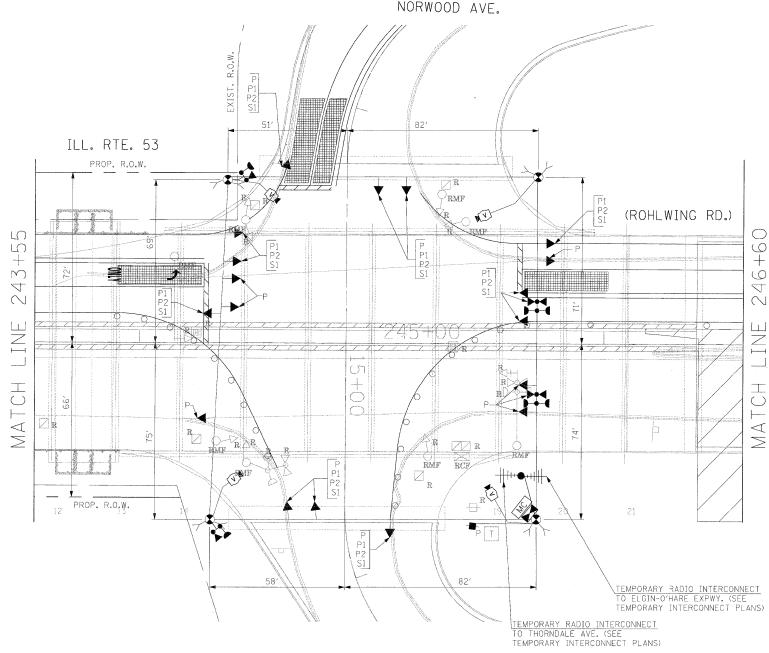
- 1 EACH CONTROLLER AND CABINET COMPLETE
- BEACH SIGNAL HEAD, 1-FACE 3-SECTION, BRACKET MOUNTED
- 2 EACH SIGNAL HEAD, 1-FACE 5-SECTION, MAST ARM MOUNTED
- 1 EACH SIGNAL HEAD, 2-FACE, 3-SECTION, BRACKET MOUNTED 2 EACH SIGNAL HEAD, 1-FACE 5-SECTION, BRACKET MOUNTED
- 2 EACH TRAFFIC SIGNAL BACKPLATE
- 6 EACH TRAFFIC SIGNAL POST
- 2 EACH STEEL MAST ARM ASSEMBLY AND POLE
- 1 EACH SERVICE INSTALLATION
- 1 EACH MASTER CONTROLLER

THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS PROJECT SHALL BE "ECONOLITE" TO MATCH THE EXISTING ADJACENT SYSTEM.



THE CONTRACTOR SHALL RELOCATE THE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM EQUIPMENTS TO THE NEW TRAFFIC SIGNAL INSTALLATION AT ILL. RTE. 53 (ROHLWING RD.) & NORWOOD AVE. ONE OF THE EXISTING LIGHT DETECTORS WHICH IS ALREADY SEPARATED SHALL BE DIVIDED, INCLUDING THE CONFIRMATION BEACON, FOR MOUNTING AS PROPOSED IN THE PLANS.





SIGNAL HEAD PLACEMENTS FOR STAGES: PRE-STAGE, P1, P2, AND S1.

NOTE 1: THE VIDEO DETECTION ZONES SHOWN ON THE PLANS ARE FOR CONSTRUCTION PRESTAGE - SUBSTAGE 1 AND SHALL BE REDEFINED FOR EACH CONSTRUCTION STAGE AS A PART OF "TEMPORARY TRAFFIC SIGNAL INSTALLATION" WORK.

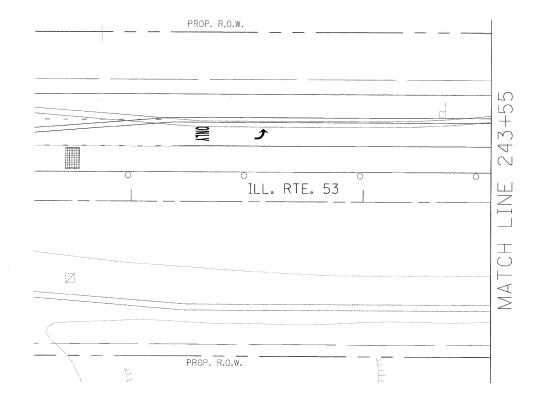
FILE NAME =	USER NAME = \$USER\$	DESIGNED -	PKG	REVISED -	
\$F(LEL\$		DRAWN -	MAA, EA	REVISED -	
	PLOT SCALE = \$SCALE\$	CHECKED -	PKG, EA	REVISED -	l
	PLOT DATE = \$DATE\$	DATE -	5/10/2010	REVISED -	

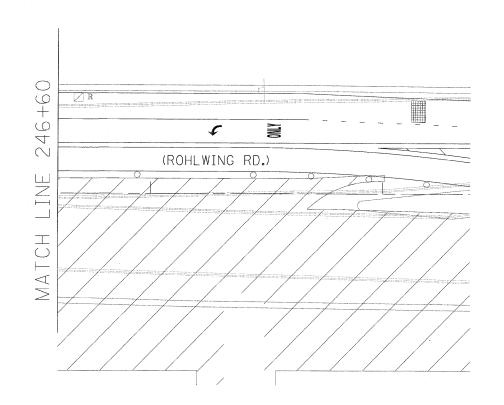
STATE	OF	ILLINOIS
DEPARTMENT	0F	TRANSPORTATION

	TEMPORARY TRAFFIC SIGNAL INSTALLATION AND REMOVAL PLAN									
		• • •						E, PRE STAGE		
	SUBSTAGE	1, PRE	STAGE	SUBS	TAGE 2, A	ND STAGE	1 (SHEET	1 OF 4).		
SCALE:	1"=20"	SHEET	NO.	0F	SHEETS	STA.	TO	STA.		

.A.P. RTE.			SE	EC.	ΓΙΟΝ			COUNTY	TOTAL SHEETS	SHEET NO.
2578				53	2B			DuPage	781	506
								CONTRACT	NO. 6	0477
ED. RO	DAD DI	IST.	NO.	_	ILLINOIS	FED.	AID	PROJECT		







THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS PROJECT SHALL BE "ECONOLITE" TO MATCH THE EXISTING ADJACENT SYSTEM.

FILE NAME =	USER NAME = \$USER\$	DESIGNED -	PKG	REVISED -	-
sfilels		DRAWN -	MAA, EA	REVISED -	
	PLOT SCALE = \$SCALE\$	CHECKED -	PKG, EA	REVISED -	
	PLOT DATE = \$DATE\$	DATE -	5/10/2010	REVISED -	

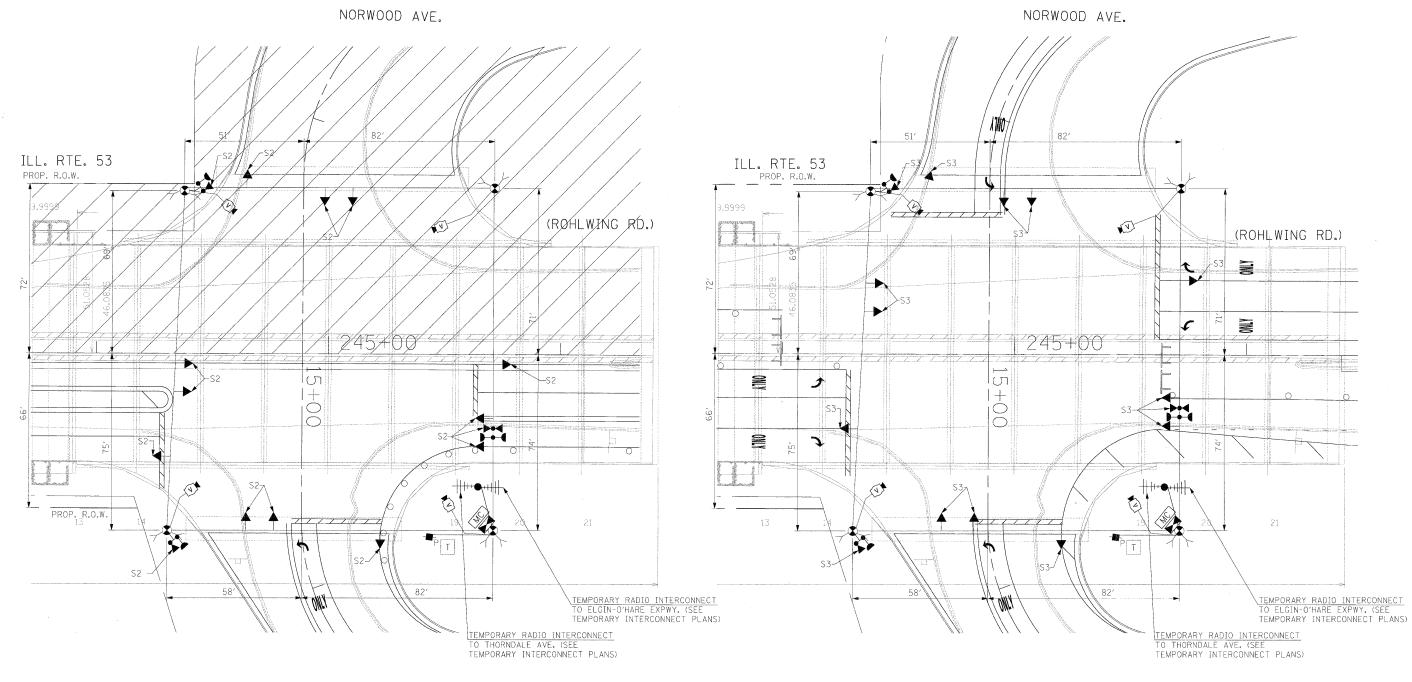
STATI	E OF	ILLINOIS
DEPARTMENT	0F	TRANSPORTATION

					AND REMOVAL	
ILLINOIS R	OUTE 53 (R	OHLWING	RD.) AT	NORWOOL) AVE. PRE STAG	E, PRE STAGE
SUBS	TAGE 1, PRE	STAGE	SUBSTAG	E 2, AND	STAGE 1 (SHEET	2 OF 4).
SCALE: 1"=20	O' SHEET	NO. C	OF SH	EETS STA	۱. TO	STA.

 F.A.P. RTE,			SEC	TIC	T	COUNTY TOTAL SHELL SHEETS NO					
2578	8 532B							DuPage	781		507
 								CONTRACT		6	0477
EED R	OAD DI	ST	NO	TI	INOIS	EED.	ΔIΓ	PROJECT			



- NOTE 1: THE VIDEO DETECTION ZONES SHOWN ON THE PLANS ARE FOR CONSTRUCTION STAGE 1 SUBSTAGE 1 AND SHALL BE REDEFINED FOR EACH CONSTRUCTION STAGE AS A PART OF "TEMPORARY TRAFFIC SIGNAL INSTALLATION" WORK.
- NOTE 2: THE SIGNAL HEAD PLACEMENT FOR NORWOOD AVENUE FOR CONSTRUCTION STAGES S2 AND S3 SHALL BE DETERMINED IN FIELD BY THE CONTRACTOR DEPENDING ON THE CONSTRUCTION STAGING USED BY THE CONTRACTOR FOR NORWOOD AVENUE.



SIGNAL HEAD PLACEMENTS FOR STAGE S2

THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS PROJECT SHALL BE "ECONOLITE" TO MATCH THE EXISTING ADJACENT SYSTEM.

SIGNAL HEAD PLACEMENTS FOR STAGE S3

FILE NAME =	USER NAME = \$USER\$	DESIGNED	-	PKG	REVISED	-
\$FILEL\$		DRAWN	-	MAA, EA	REVISED	**
	PLOT SCALE = \$SCALE\$	CHECKED	-	PKG, EA	REVISED	-
	PLOT DATE = \$DATE\$	DATE	-	5/10/2010	REVISED	_

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

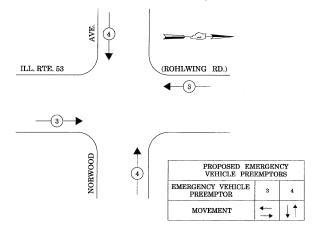
	ARY TRAFFIC				
ILLI	NOIS ROUTE Stage 2		HLWING R STAGE 3 (AVE.
SCALE: 1"=20"	SHEET NO.	OF	SHEETS	STA.	 TO STA.

CONTROLLER SEQUENCE ILL. RTE. 53 (ROHLWING RD.) LEGEND ◆ ◆ DUAL ENTRY PHASE * SINGLE ENTRY PHASE * O.L. OVERLAP **◄---*** PEDESTRIAN PHASE NUMBER REFERS TO ASSOCIATED PHASE

TEMPORARY PHASE DESIGNATION DIAGRAM

STAGES: PRE-STAGE, P1, P2, S1, S2, S3, AND AFTER PROPOSED GEOMETRICS ARE BUILT

EMERGENCY VEHICLE PREEMPTION SEQUENCE

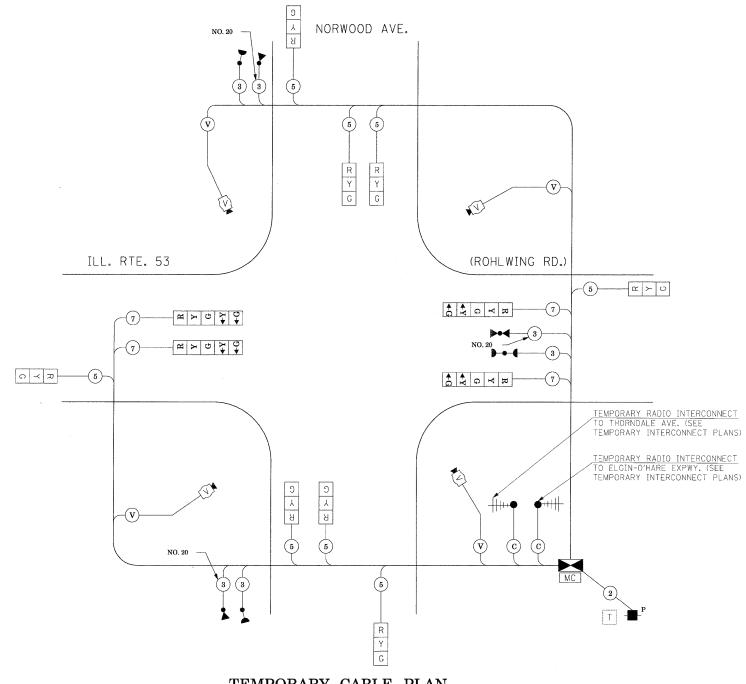


STAGES: PRE-STAGE, P1, P2, S1, S2, S3, AND AFTER PROPOSED GEOMETRICS ARE BUILT

TRA ELECTI	TOTAL				
TYPE	NO LAMPS	WAT INCAND.	TAGE LED	X %OPERATION	WATTAGE
SIGNAL (RED)	12	135	17	0.50	102
(YELLOW)	12	135	25	0.25	75
(GREEN)	12	135	15	0.25	45
ARROW	8	135	12	0.10	9.6
PED. SIGNAL	! !	90	25	1,00	
CONTROLLER	1	100	100	1,00	100
ILLUM, SIGN			25	0.05	
VIDEO SYSTEM	11	150		1,00	150
FLASHER				0.50	
ENERGY COSTS	TO:			TOTAL =	481.6
201 WEST CE	DEPARTMENT INTER COURT ILLINOIS 60196		SPORTA	TION	
ENERGY SUPPLY		CURTIS (630) 69			
	COMPANY:			DISON	

NOTE 1: A MASTER CONTROLLER WILL BE SUPPLIED AT THIS INTERSECTION, THE COST OF WHICH SHALL BE INCLUDED IN THE PAY ITEM "TEMPORARY TRAFFIC SIGNAL INSTALLATION".

NOTE 2: THE TELEPHONE SERVICE MUST BE MAINTAINED AT THIS TEMPORARY TRAFFIC SIGNAL INSTALLATION. THIS ITEM OF WORK SHALL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCIDENTAL TO THE PAY ITEM "TEMPORARY TRAFFIC SIGNAL INSTALLATION".



TEMPORARY CABLE PLAN

(NOT TO SCALE)

STAGES: PRE-STAGE, P1, P2, S1, S2, S3, AND AFTER PROPOSED GEOMETRICS ARE BUILT

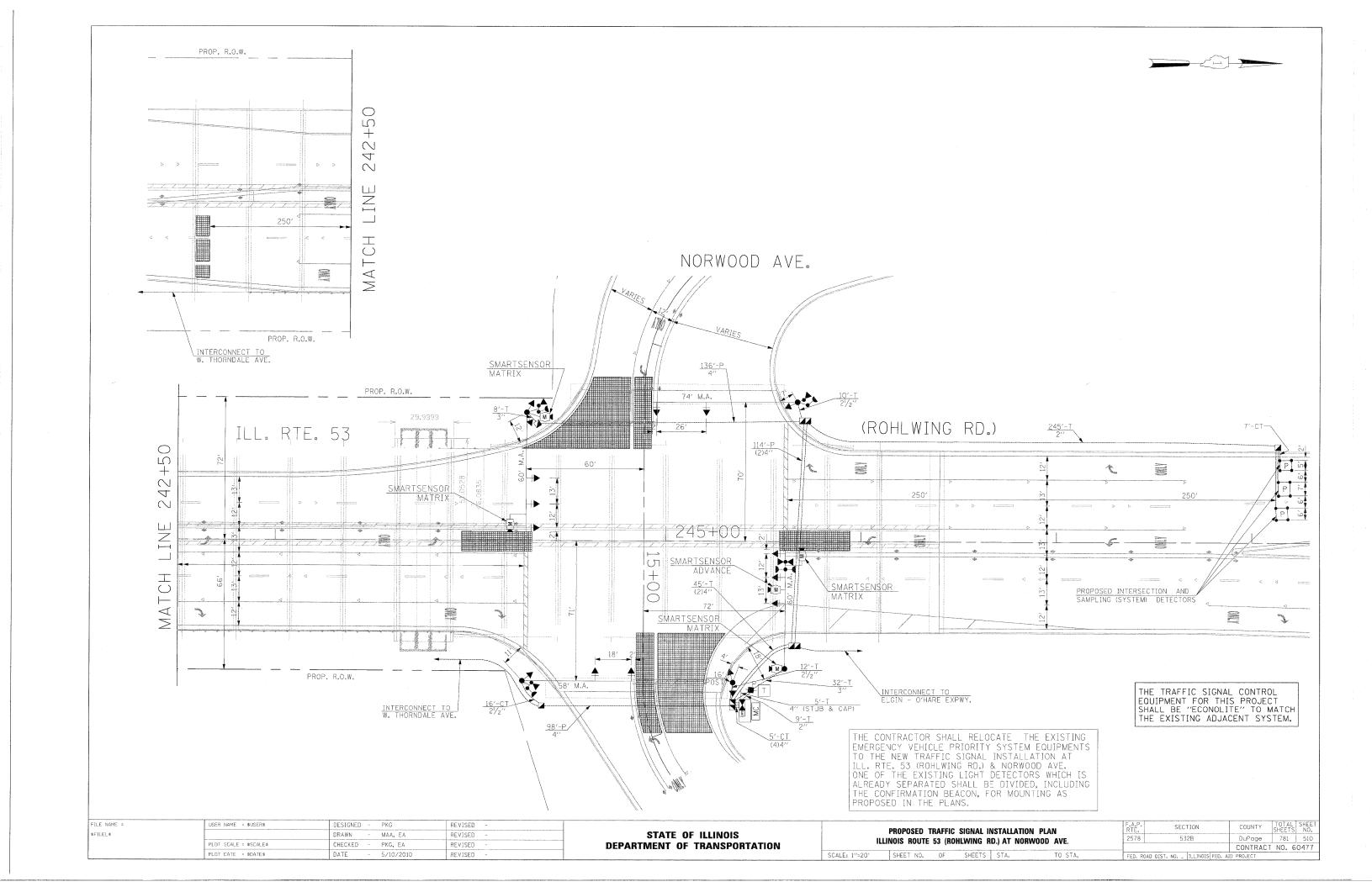
> THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS PROJECT SHALL BE "ECONOLITE" TO MATCH THE EXISTING ADJACENT SYSTEM.

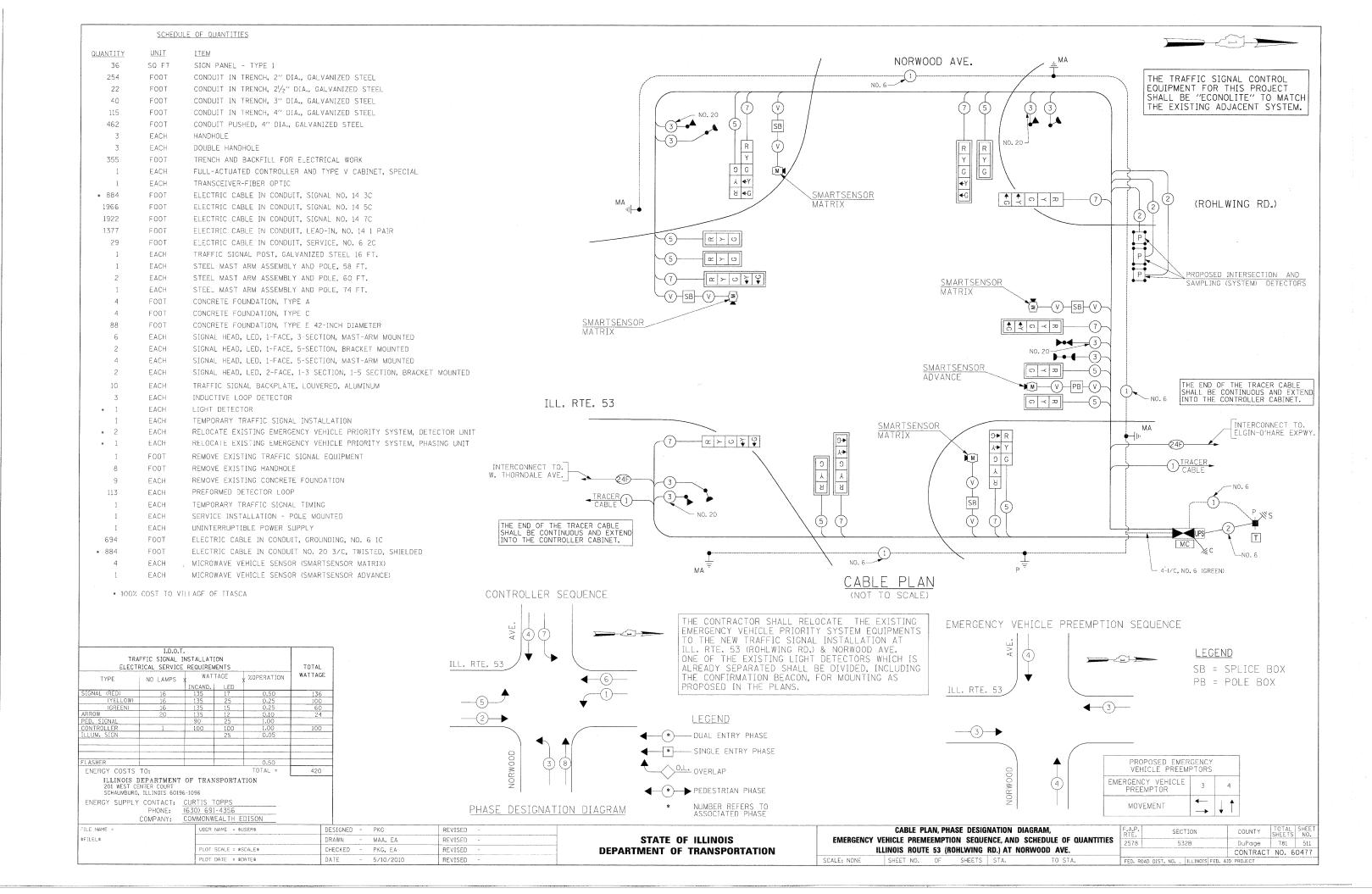
COMI AITI, COI	MINORAL TIT EDISON	1			
FILE NAME =	USER NAME = \$USER\$	DESIGNED -	PKG	REVISED -	T
\$FILEL\$	·	DRAWN -	MAA, EA	REVISED -	1
	PLOT SCALE = \$SCALE\$	CHECKED -	PKG, EA	REVISED -	1
	PLOT DATE = \$DATE\$	DATE -	5/10/2010	REVISED -	1

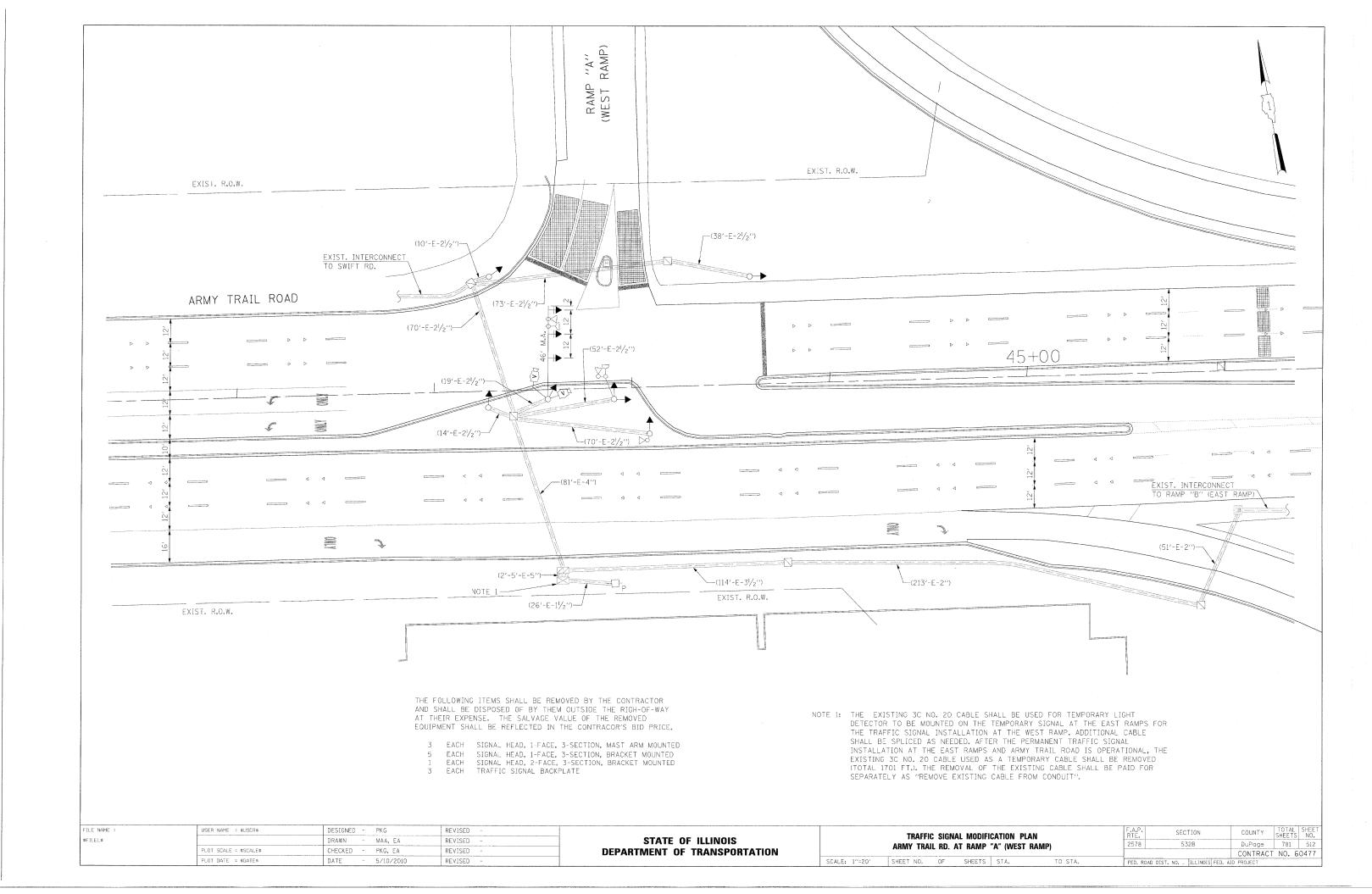
STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

•	TEMPORA DIS ROU	RY E	MERGENC (ROHLW)	Y VEHICLE F	REEMPTION NORWOOL	IGNATION DIAGRAM ON SEQUENCE D AVE. PRE-STAGE, 1 4 OF 4).
NONE	SHEET	NO.	OF	SHEETS	STA.	TO STA.

F.A.P. RTE.	SECTION	COUNTY	COUNTY TOTAL SHEETS		
2578	532B	DuPage	781	509	
		CONTRACT	NO. 6	0477	
FED. RO	DAD DIST. NO ILLINOIS FED. A	ID PROJECT			







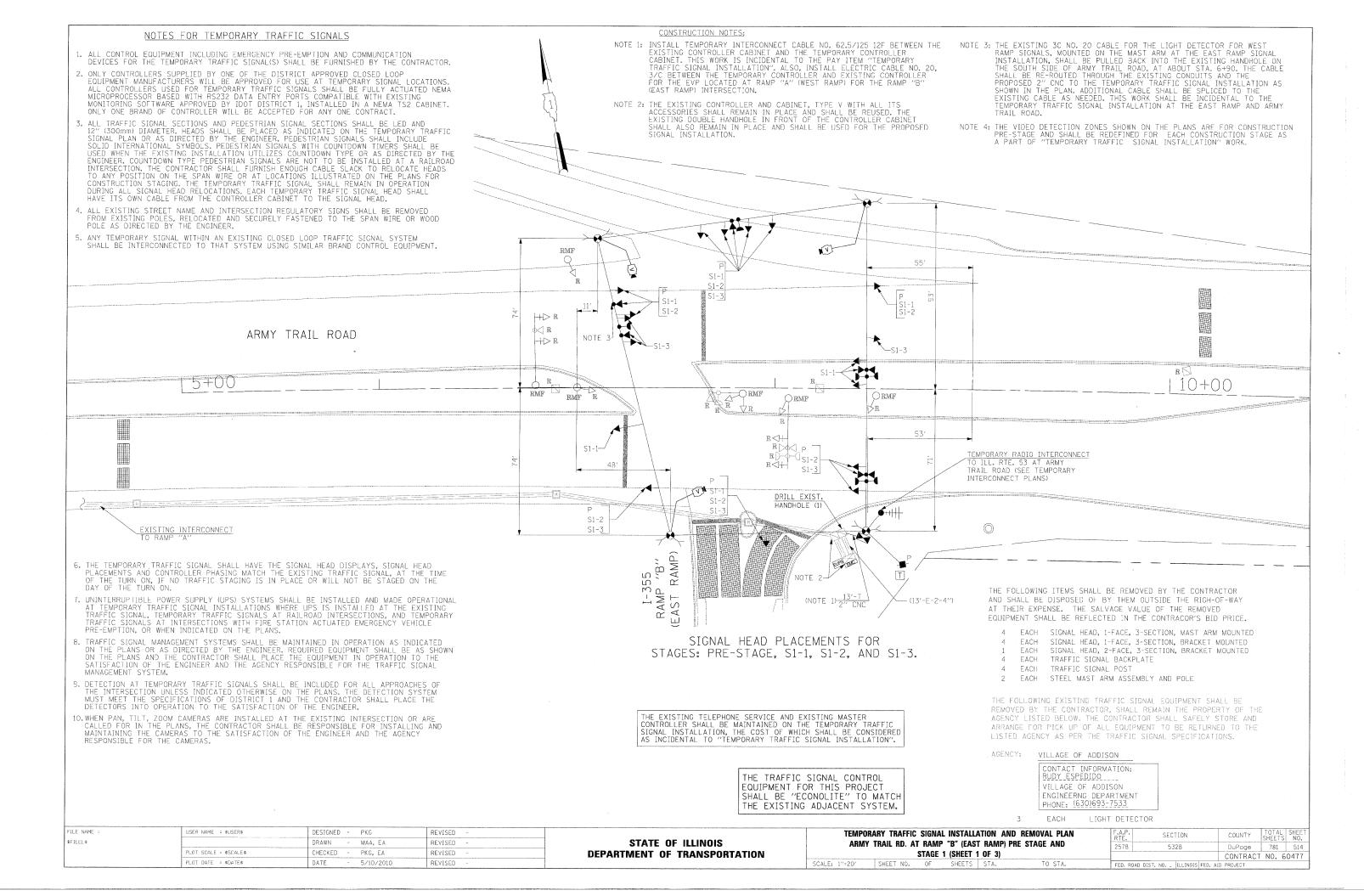
RAMP "A" (WEST RAMP) C→ 从→ B 5 SCHEDULE OF QUANTITIES QUANTITY MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION * 1772 FOOT ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C EACH SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED ARMY TRAIL ROAD SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED SIGNAL HEAD, LED, 2-FACE, 3-SECTION, BRACKET MOUNTED EACH TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM 3 1701 FOOT REMOVE ELECTRIC CABLE FROM CONDUIT EACH REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT * 1772 FOOT ELECTRIC CABLE IN CONDUIT NO. 20 3/C, TWISTED, SHIELDED * 100% COST TO VILLAGE OF ADDISON œ > o C.→ N.→ B **←**C **←**J B 5 (5) 3-6 LIGHT DETECTOR AND CONFIRMATION BEACON MOUNTED AT ARMY TRAIL RD. D0-L NO. 20 AND RAMP "B" (EAST RAMP) TO EXISTING CONTROLLER AT ARMY TRAIL RD. AND RAMP "B" (EAST RAMP) CABLE PLAN CONTROLLER SEQUENCE EMERGENCY VEHICLE PREEMPTION SEQUENCE 4 I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS ARMY TRAIL RD. WATTAGE 4 **4**-6}-PROPOSED EMERGENCY VEHICLE PREEMPTORS LEGEND ARMY TRAIL RD, EMERGENCY VEHICLE PREEMPTOR **◆ → DUAL ENTRY PHASE** - SINGLE ENTRY PHASE MOVEMENT 150 O.L. OVERLAP PHASE DESIGNATION DIAGRAM * PEDESTRIAN PHASE ENERGY COSTS TO: ILLINOIS DEPARTMENT OF TRANSPORTATION 201 WEST CENTER COURT SCHAUMBURG, ILLINOIS 60196-1096 NUMBER REFERS TO ASSOCIATED PHASE ENERGY SUPPLY CONTACT: CURTIS TOPPS PHONE: (630) 691-4356 COMPANY: COMMONWEALTH EDISON CABLE PLAN, PHASE DESIGNATION DIAGRAM, COUNTY TOTAL SHEET NO. DuPage 781 513 FILE NAME USER NAME = \$USER\$ DESIGNED PKG REVISED \$FILEL\$ MAA, EA REVISED STATE OF ILLINOIS EMERGENCY VEHICLE PREEMPTION SEQUENCE, SCHEDULE OF QUANTITIES 532B PLOT SCALE = \$SCALE\$ PKG, EA CHECKED REVISED **DEPARTMENT OF TRANSPORTATION** ARMY TRAIL RD. AT RAMP "A" (WEST RAMP) CONTRACT NO. 60477

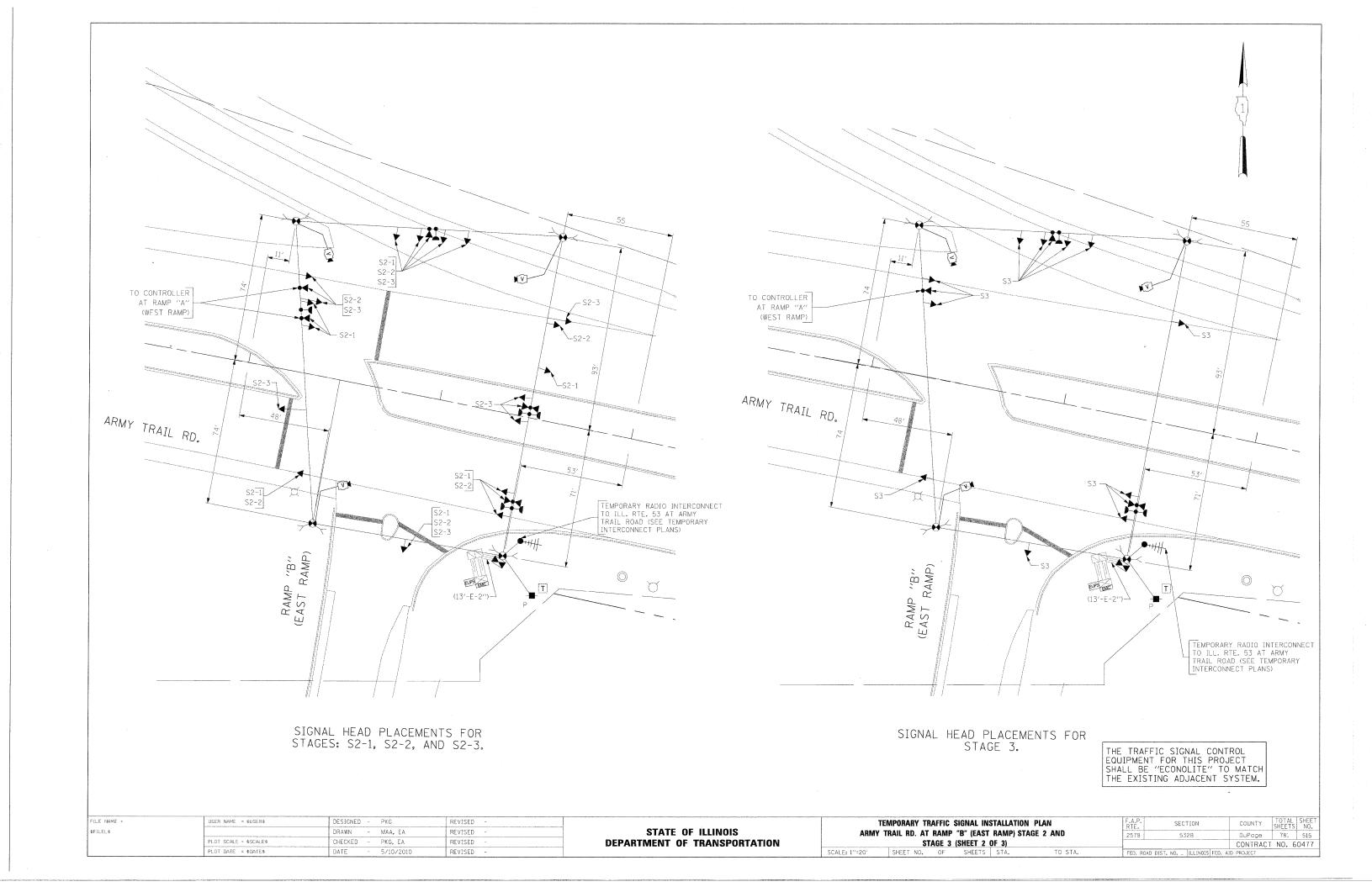
SHEET NO. OF SHEETS STA.

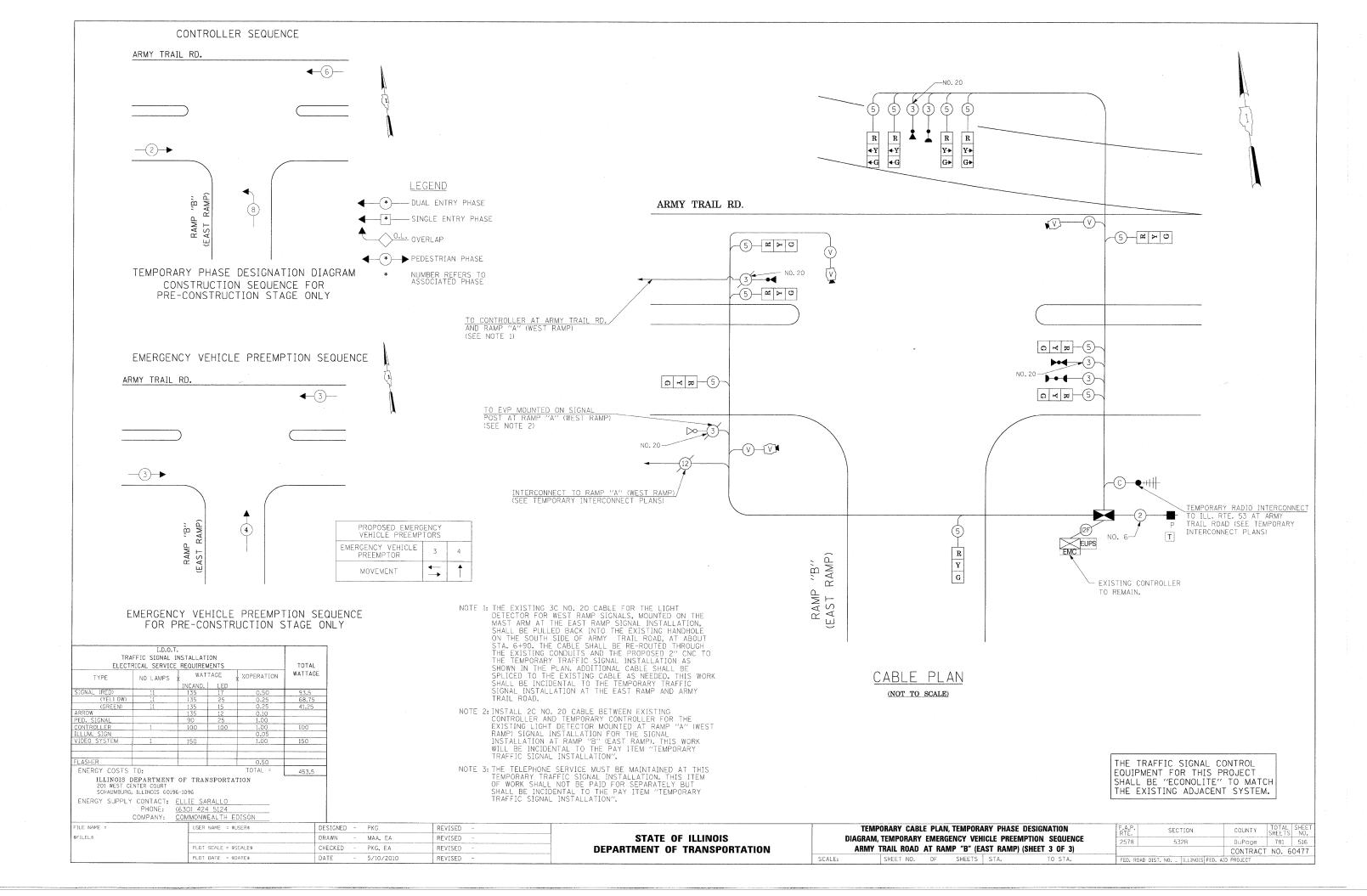
PLOT DATE = \$DATE\$

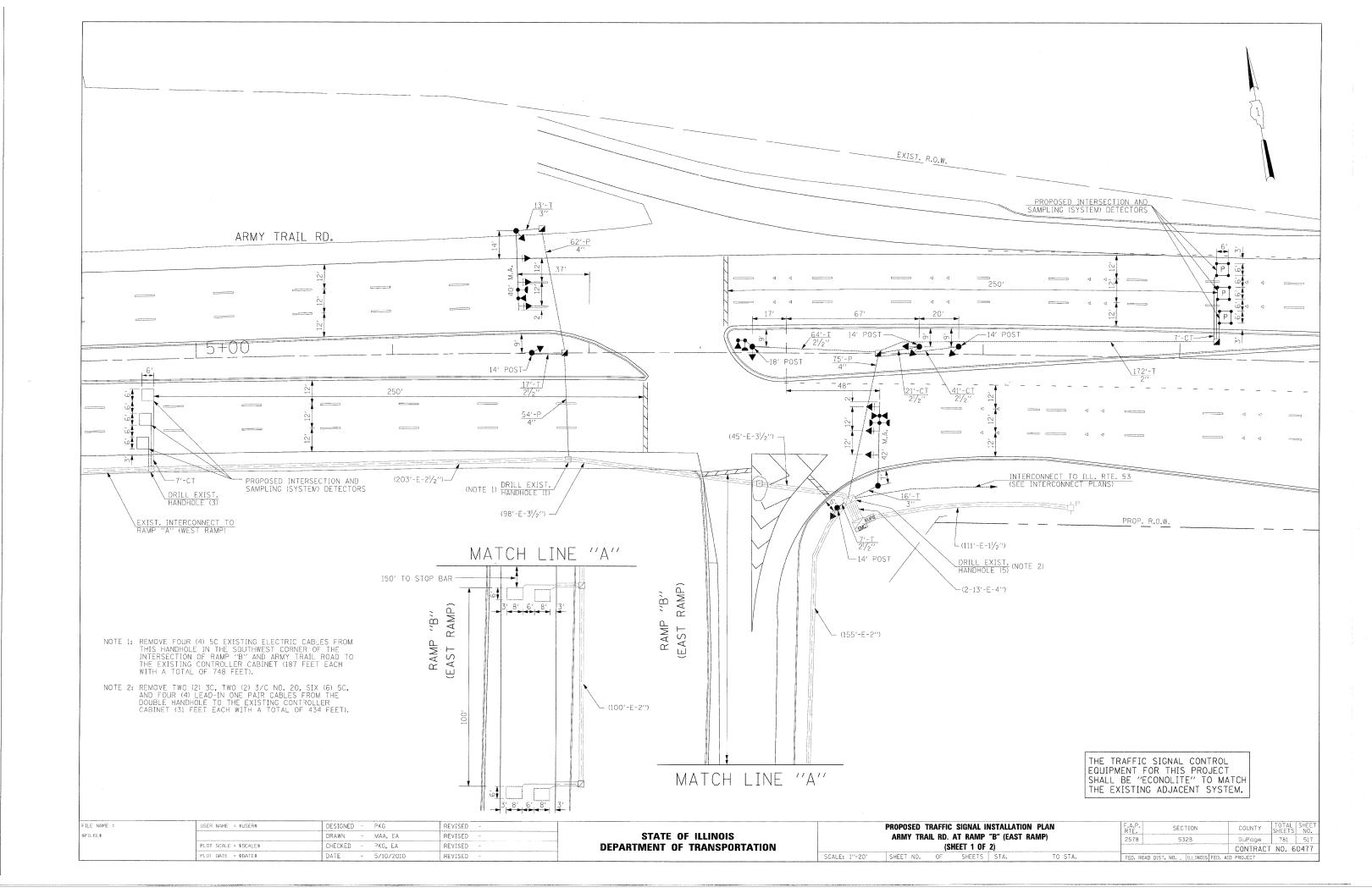
5/10/2010

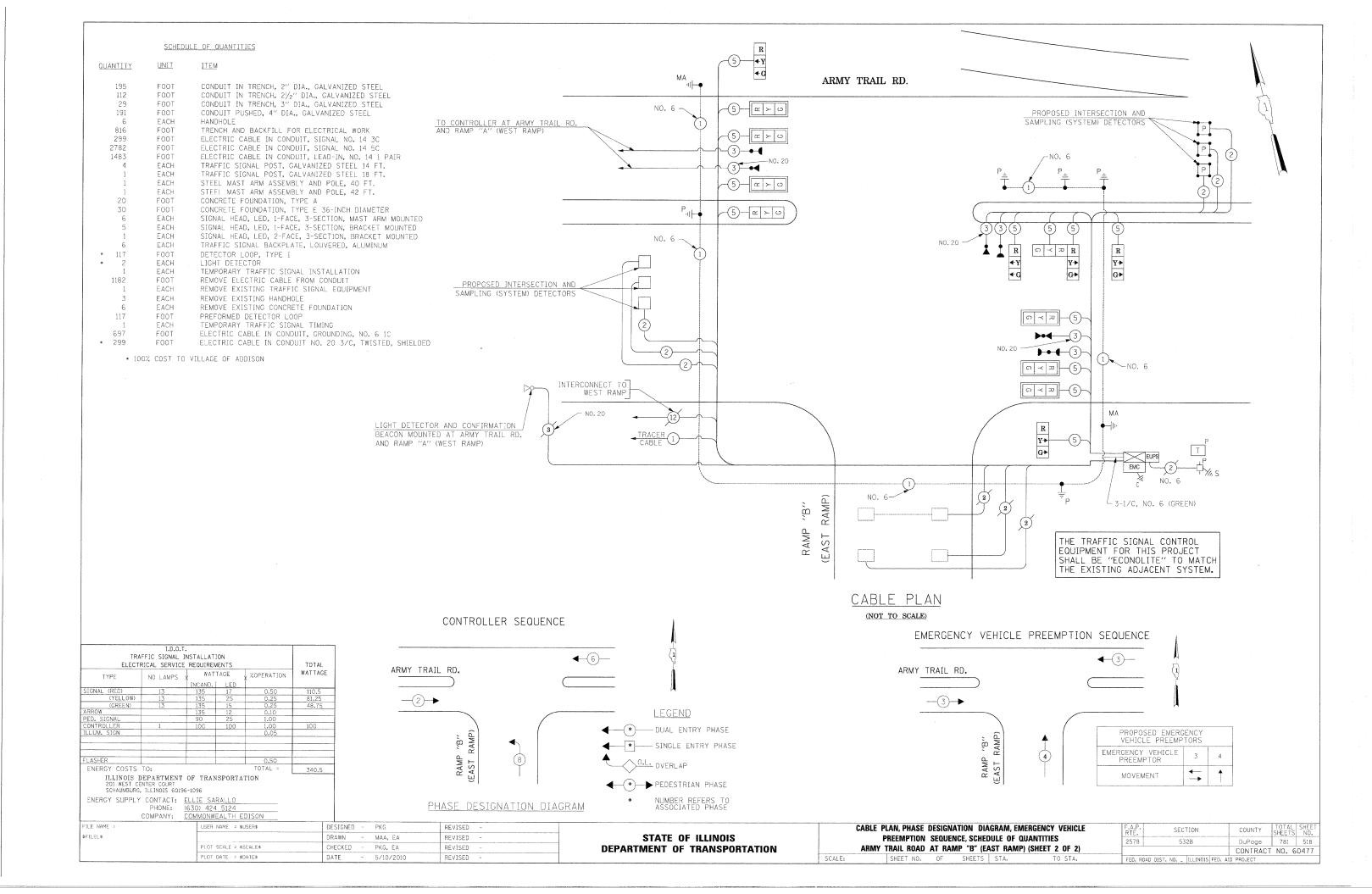
REVISED

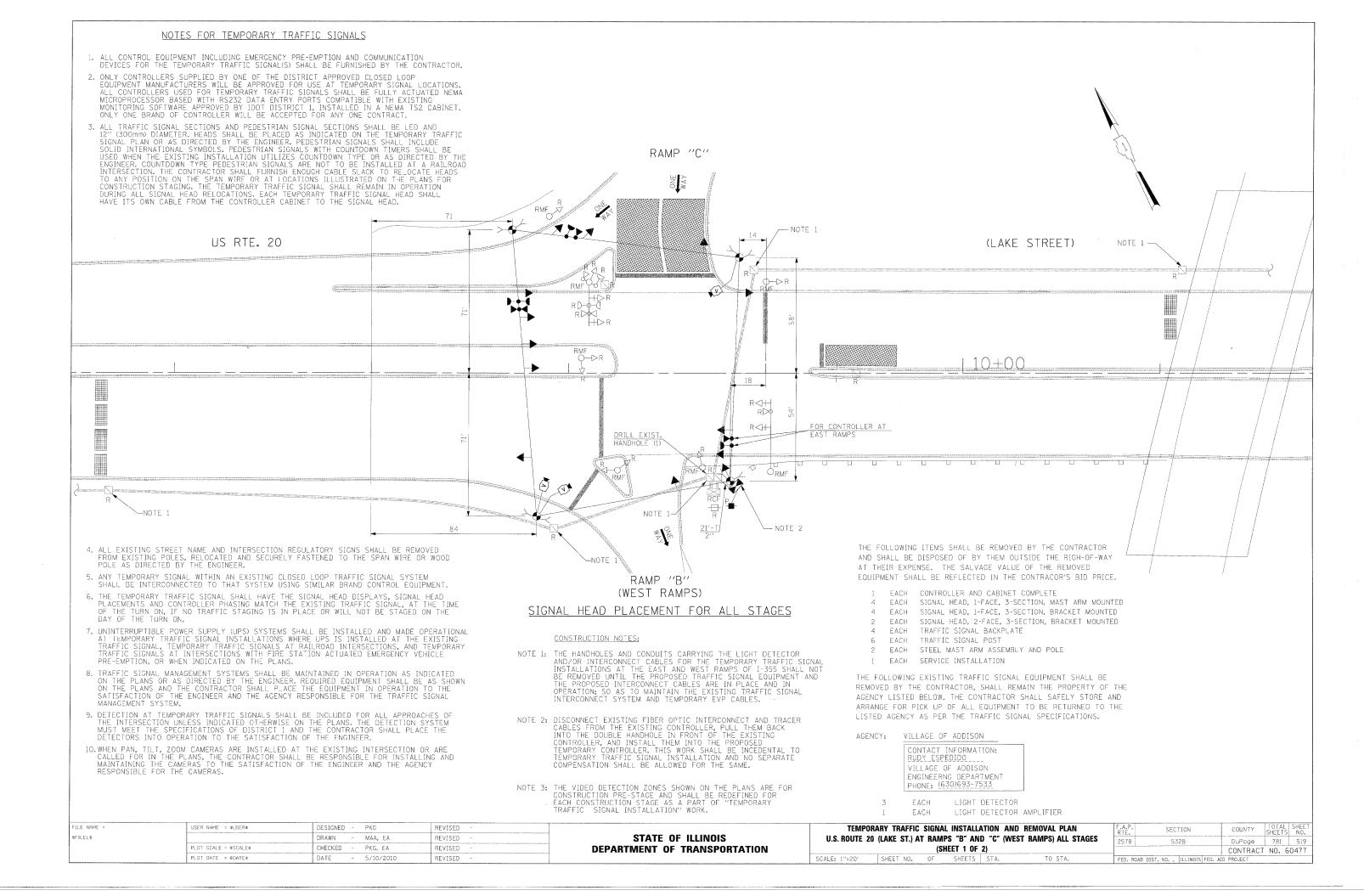


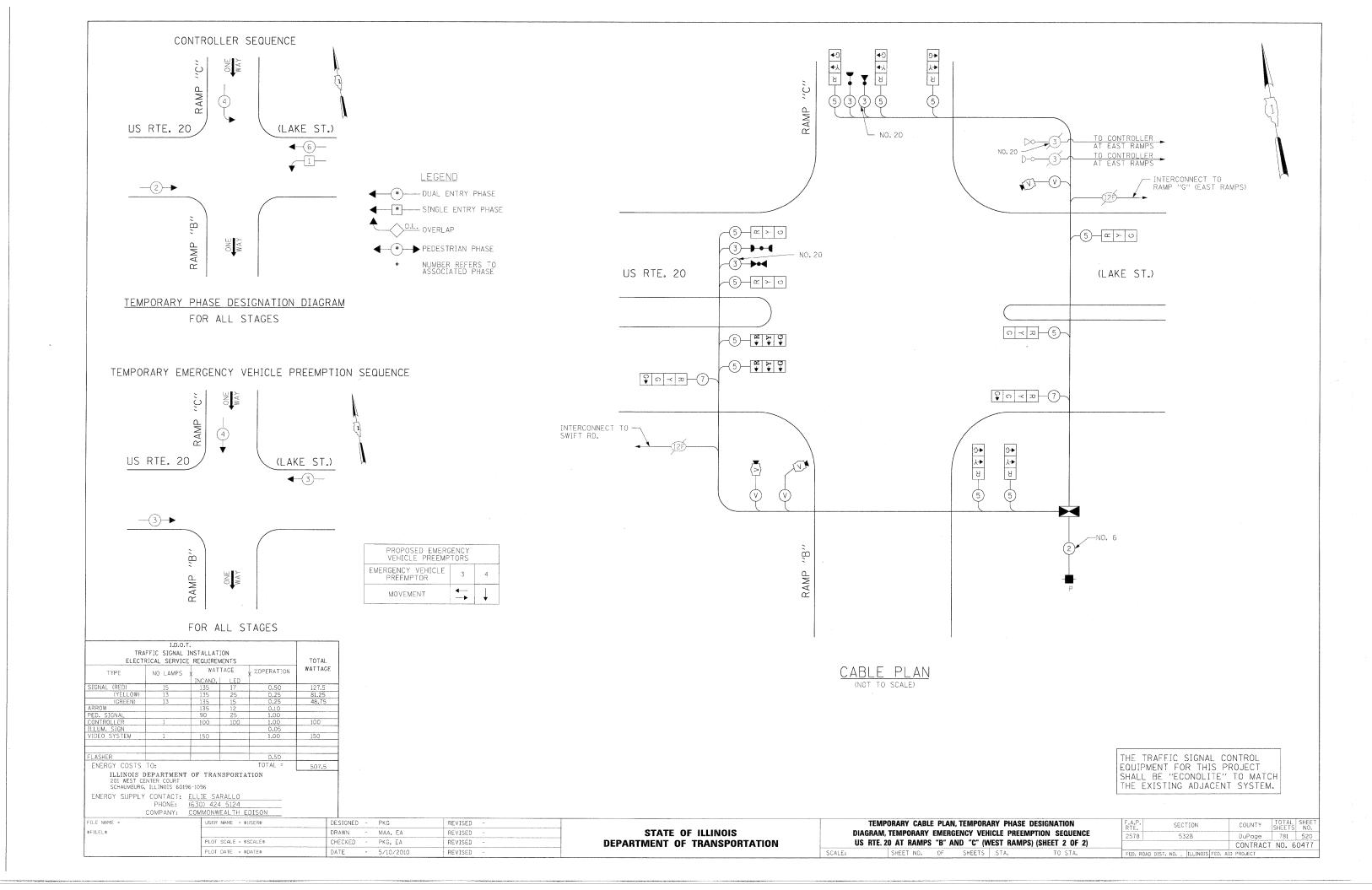


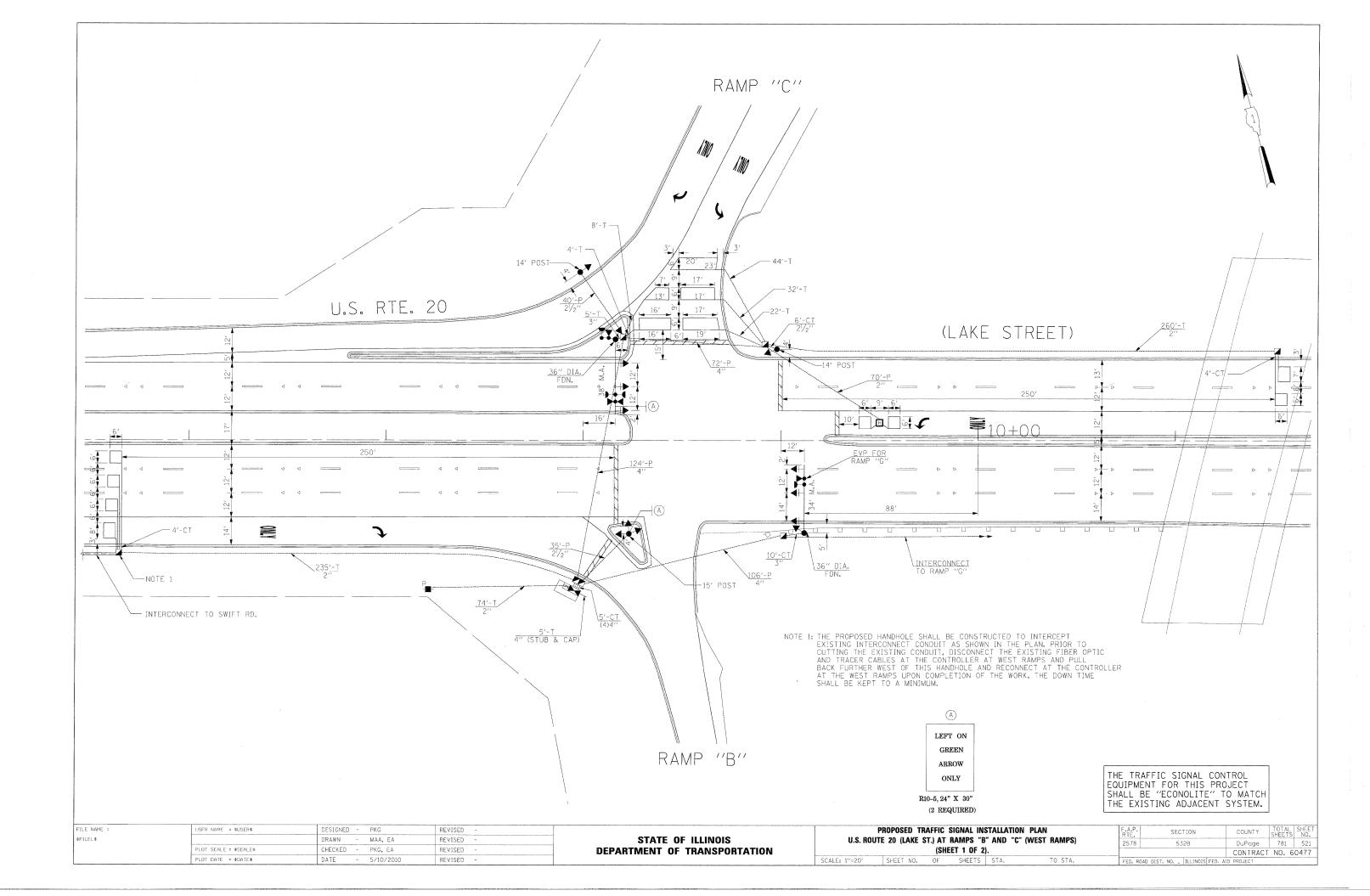


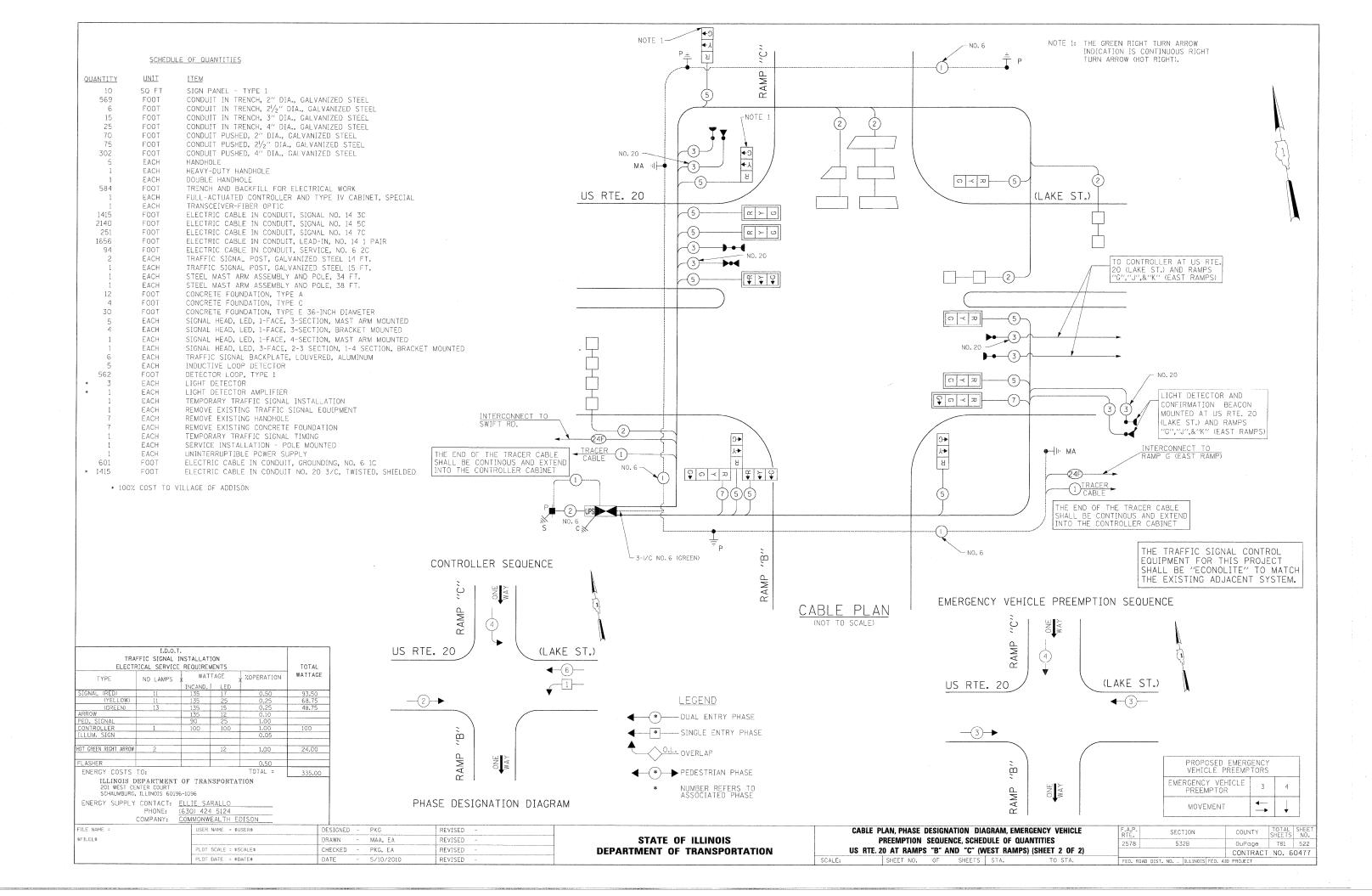


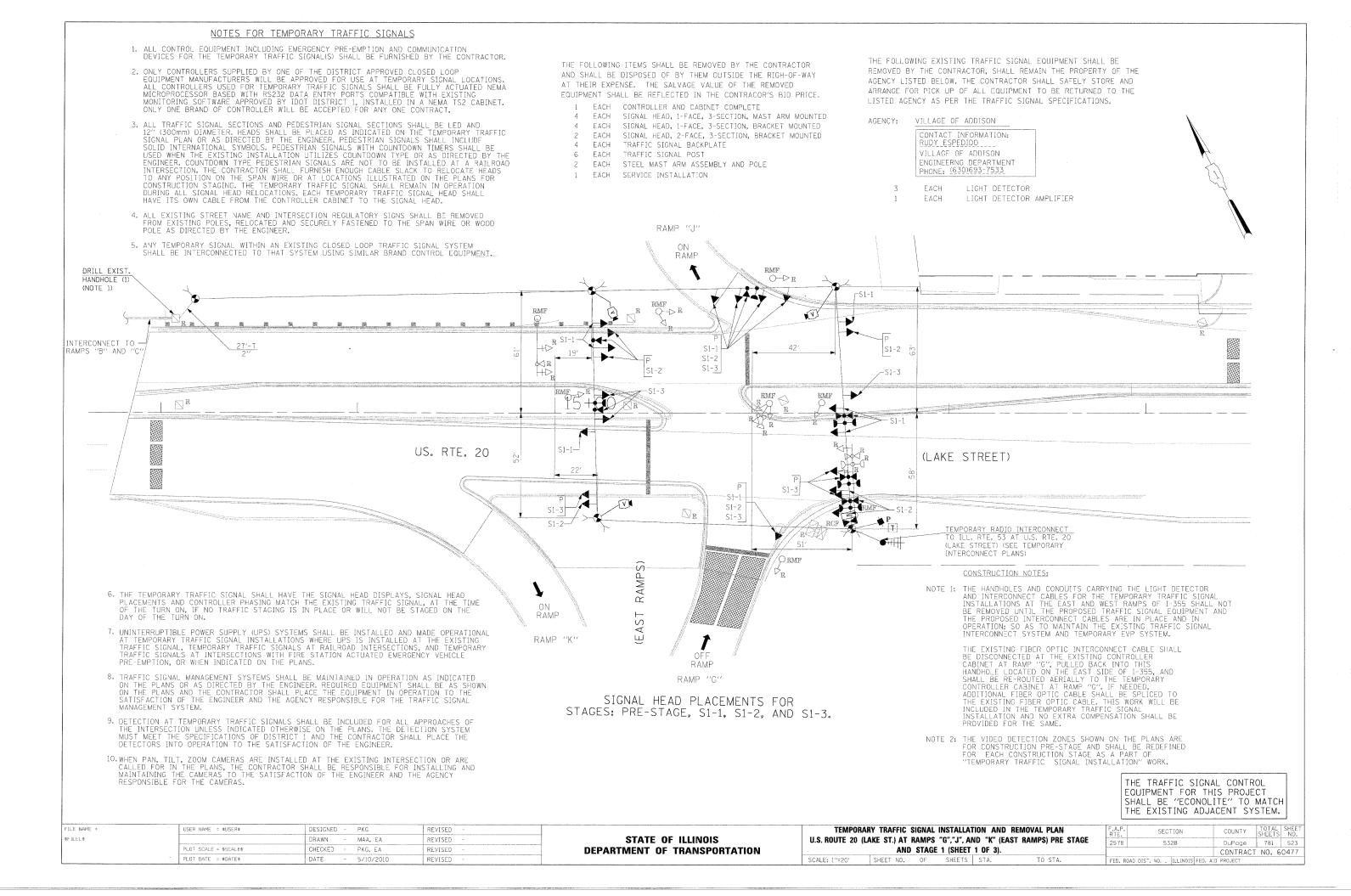


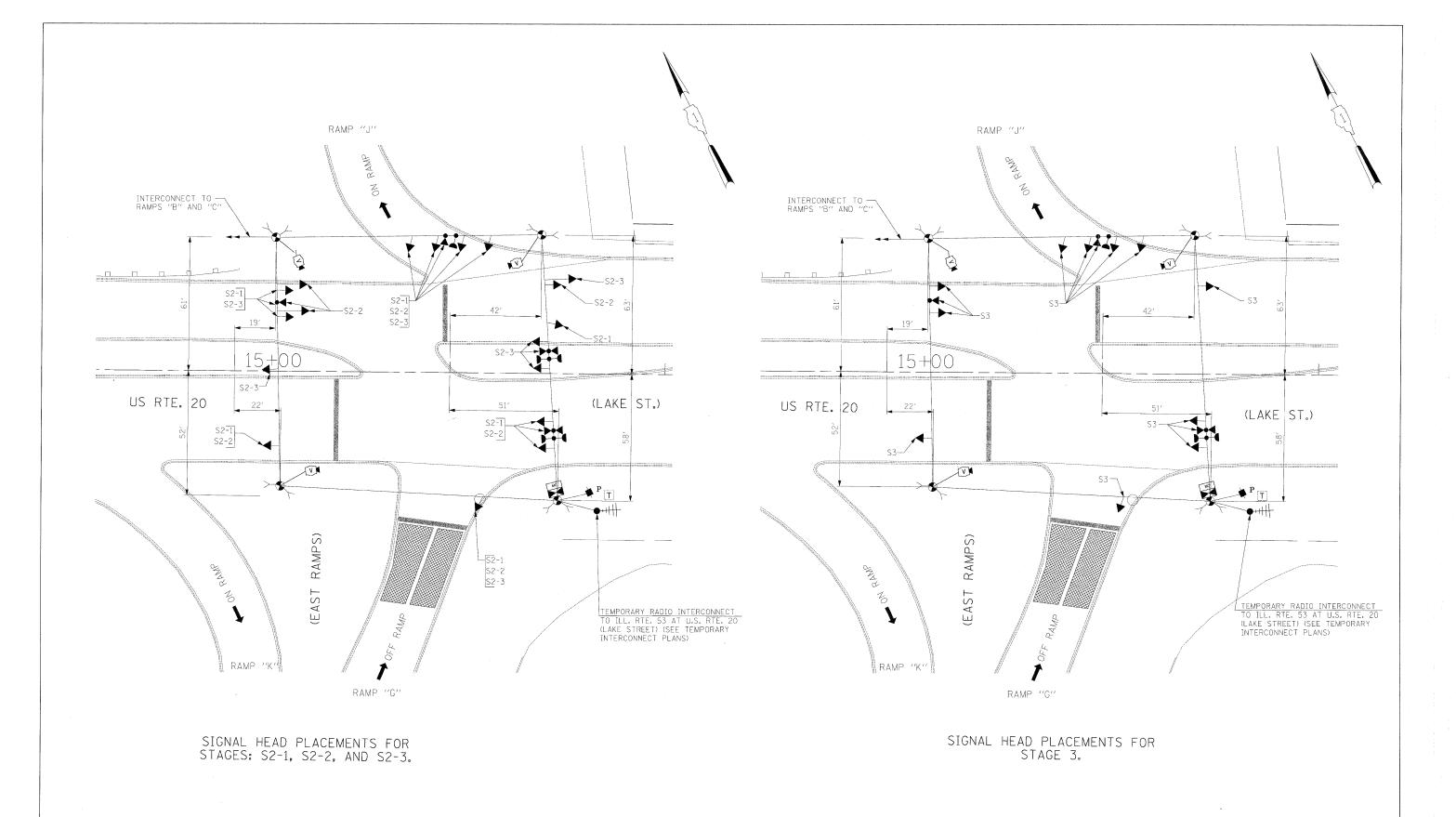












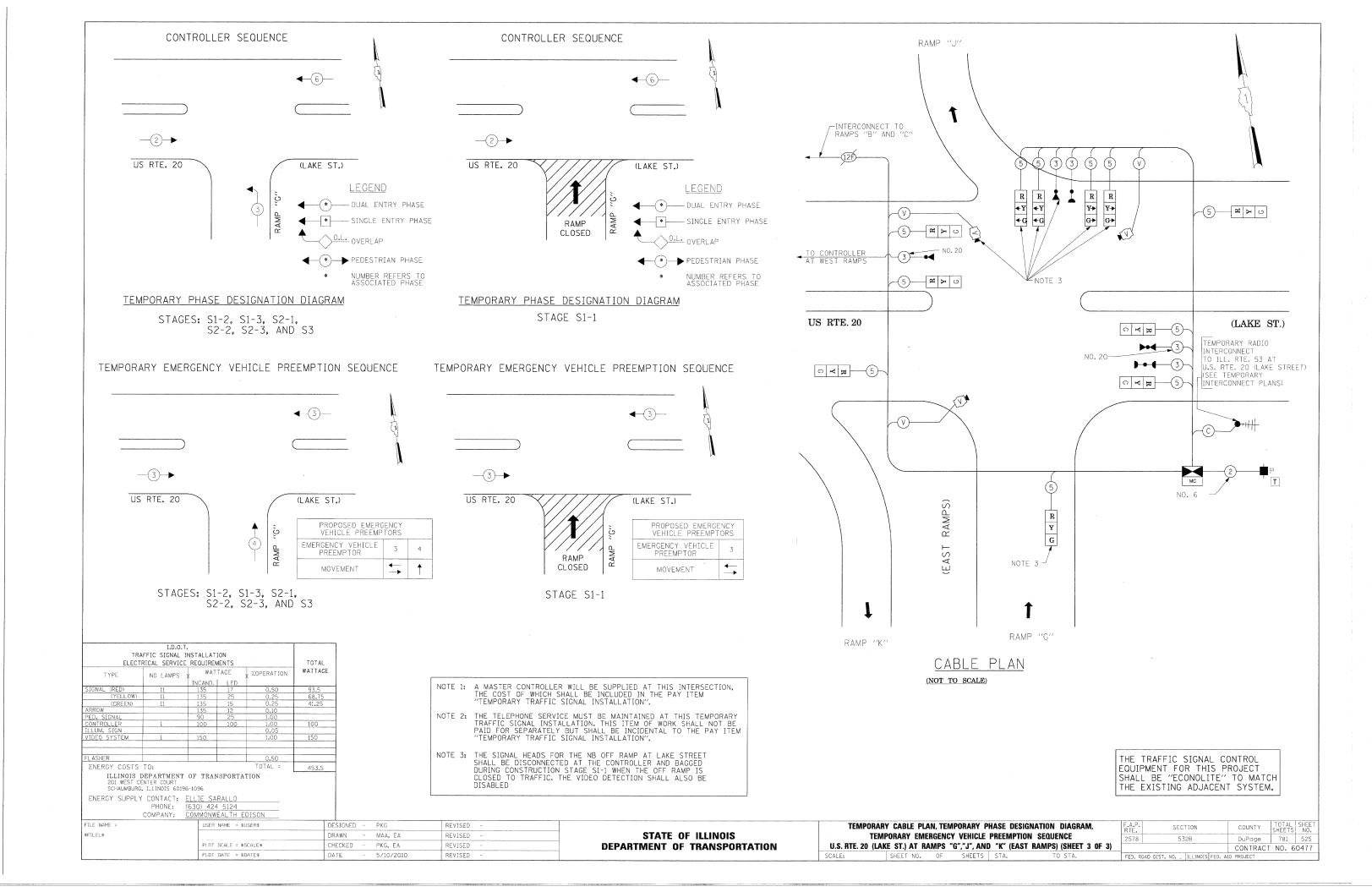
THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS PROJECT SHALL BE "ECONOLITE" TO MATCH THE EXISTING ADJACENT SYSTEM.

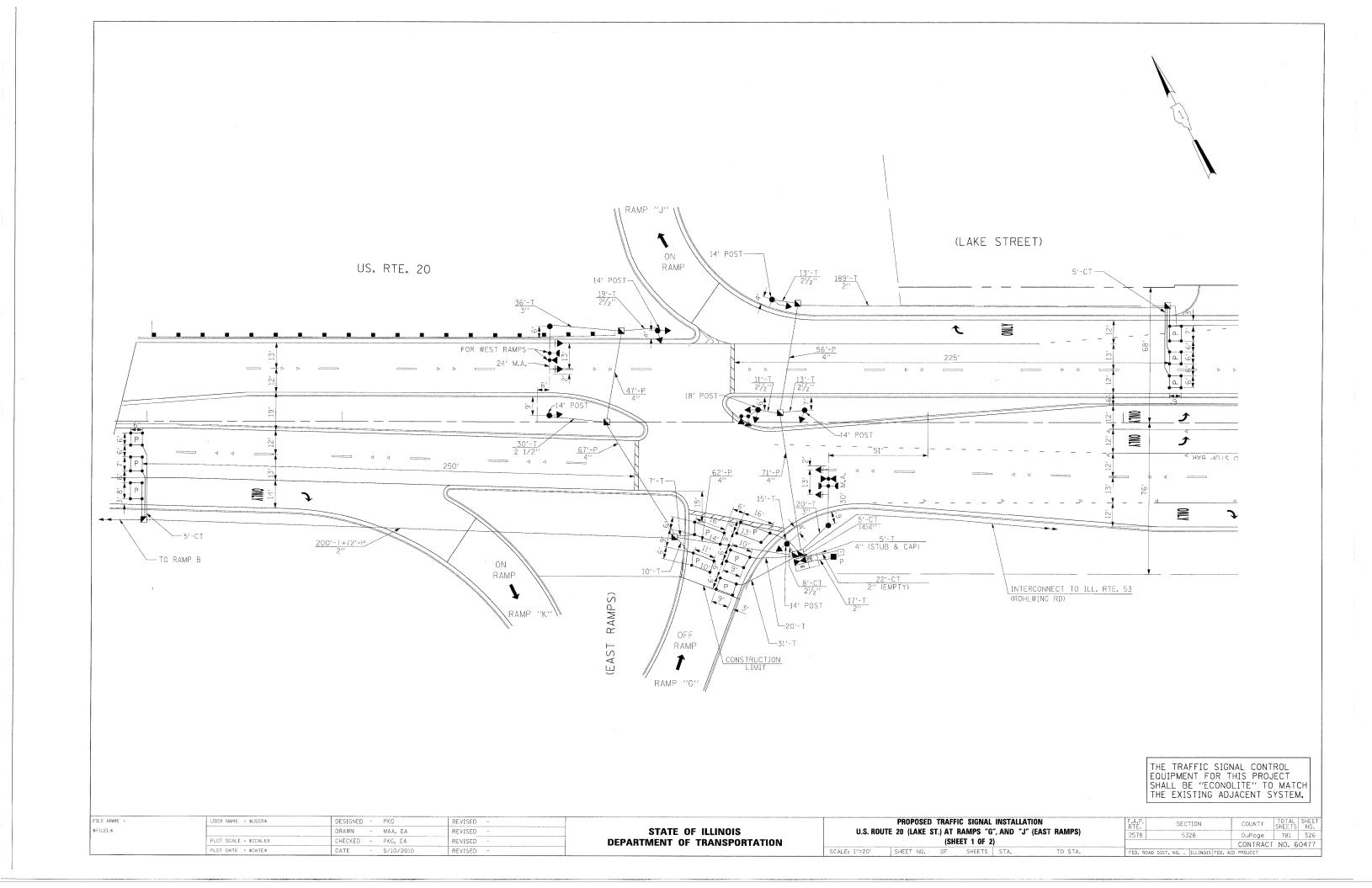
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

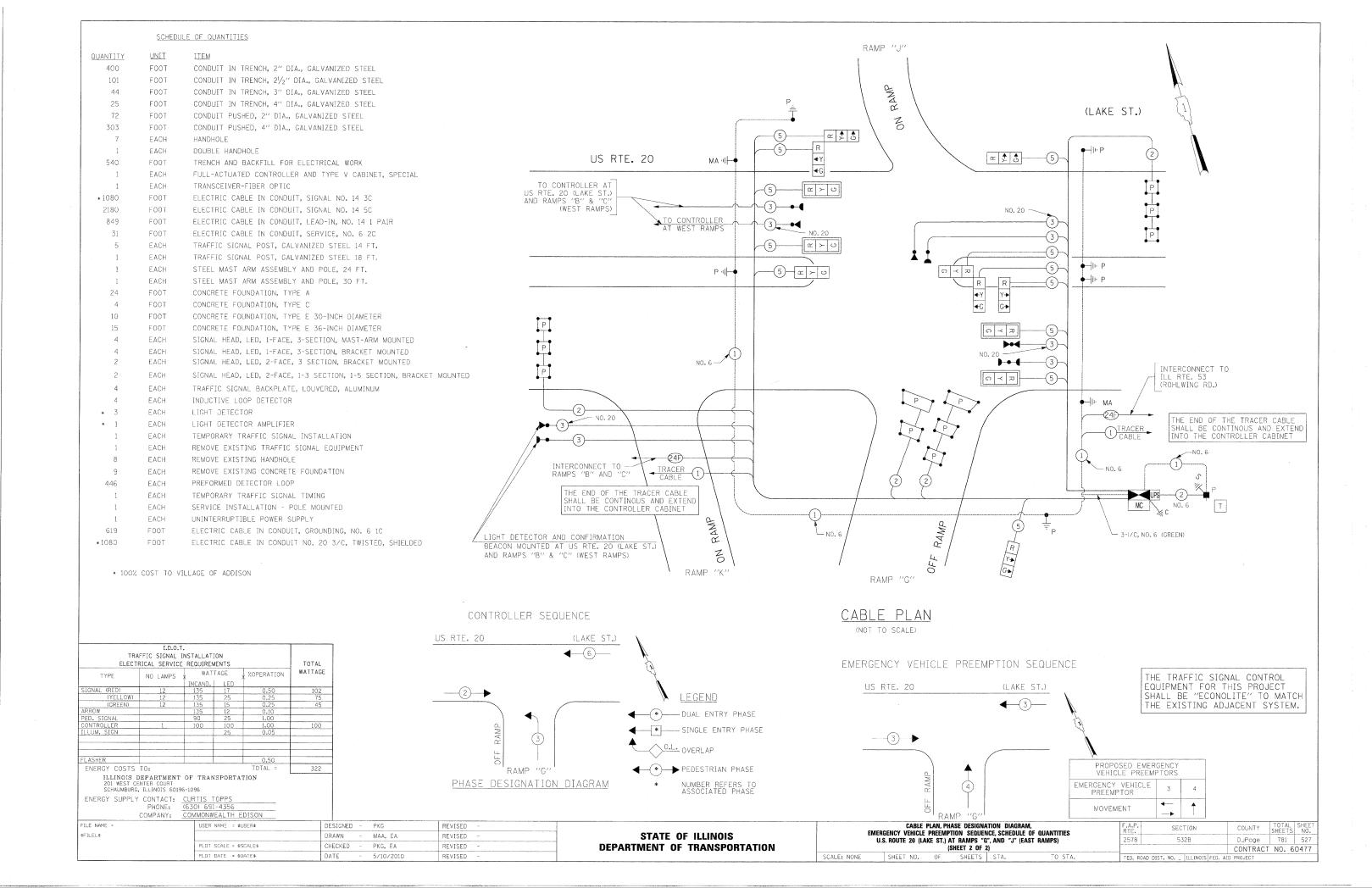
TEMPORARY TRAFFIC SIGNAL INSTALLATION AND REMOVAL PLAN
U.S. ROUTE 20 (LAKE ST.) AT RAMPS "G","J", AND "K" (EAST RAMPS) STAGE 2

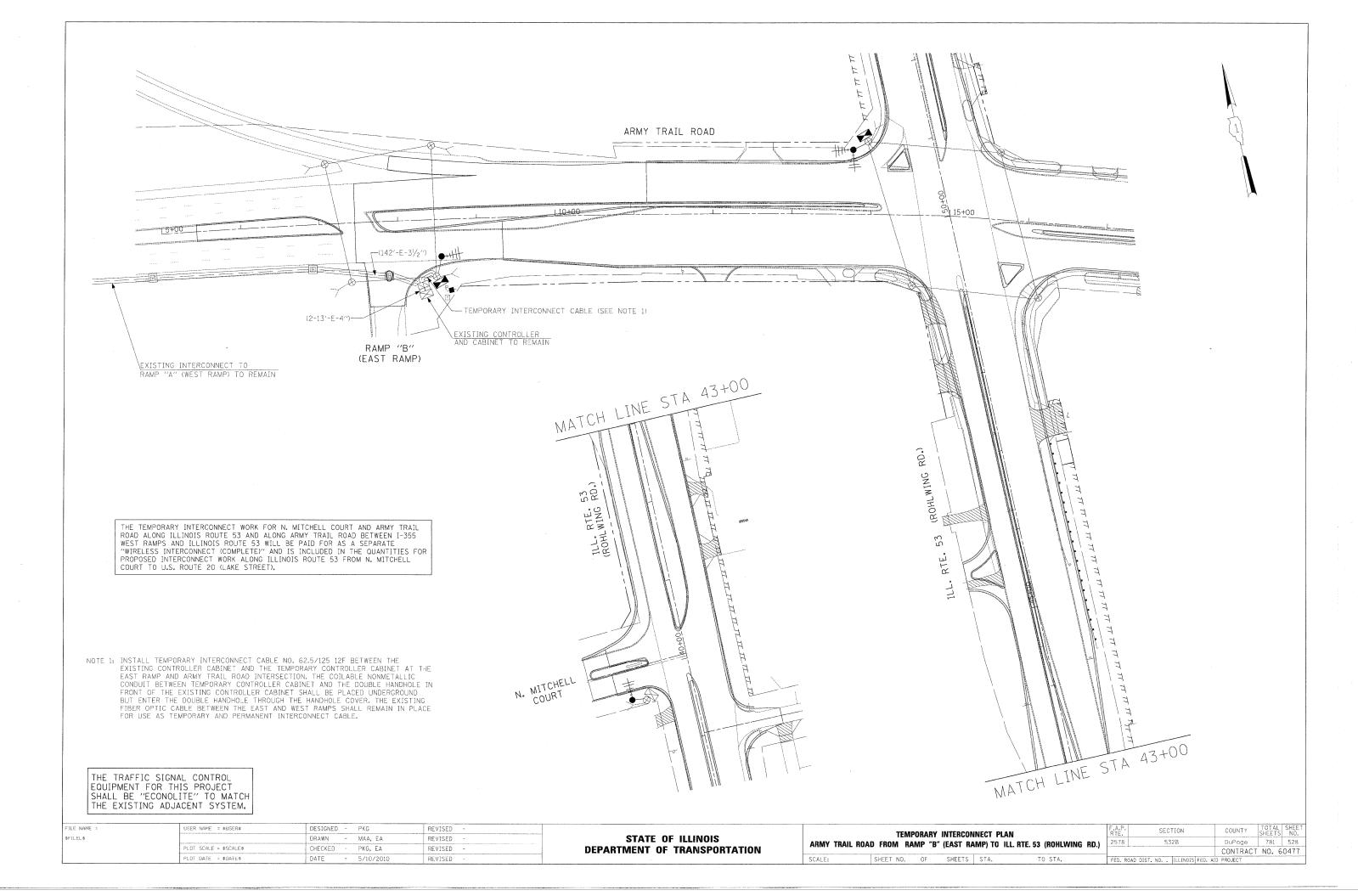
AND STAGE 3 (SHEET 2 OF 3).

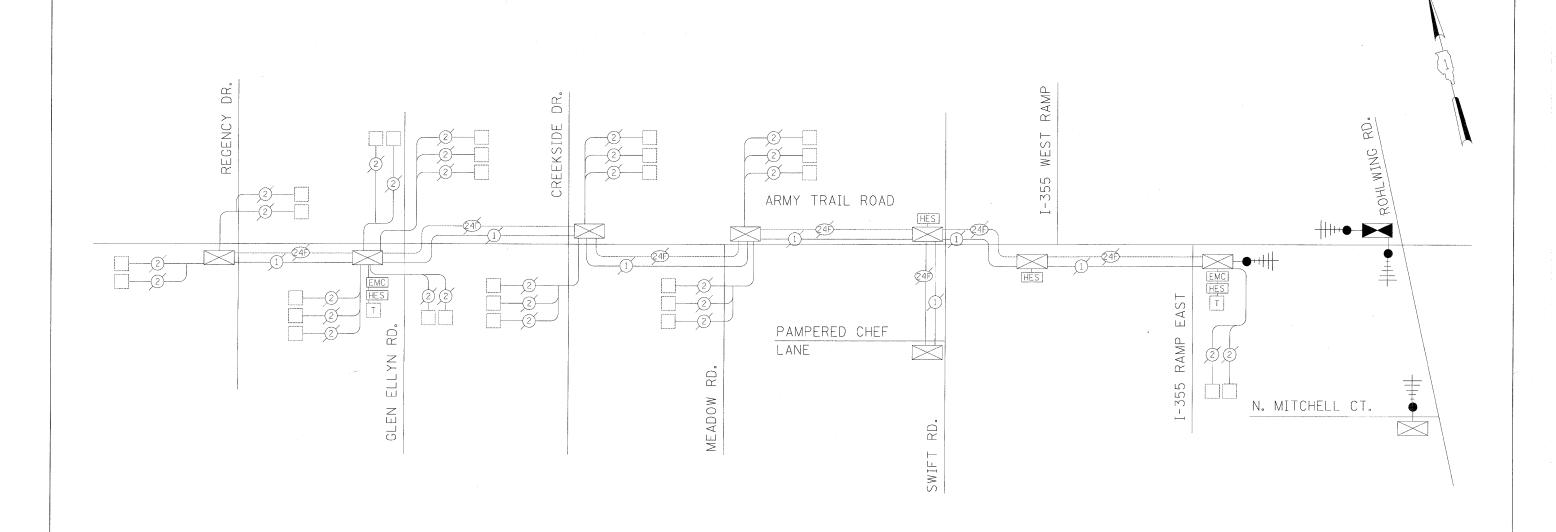
SCALE: 1"=20" SHEET NO. OF SHEETS STA. TO STA.











LEGEND

HARDENED ETHERNET SWITCH HES

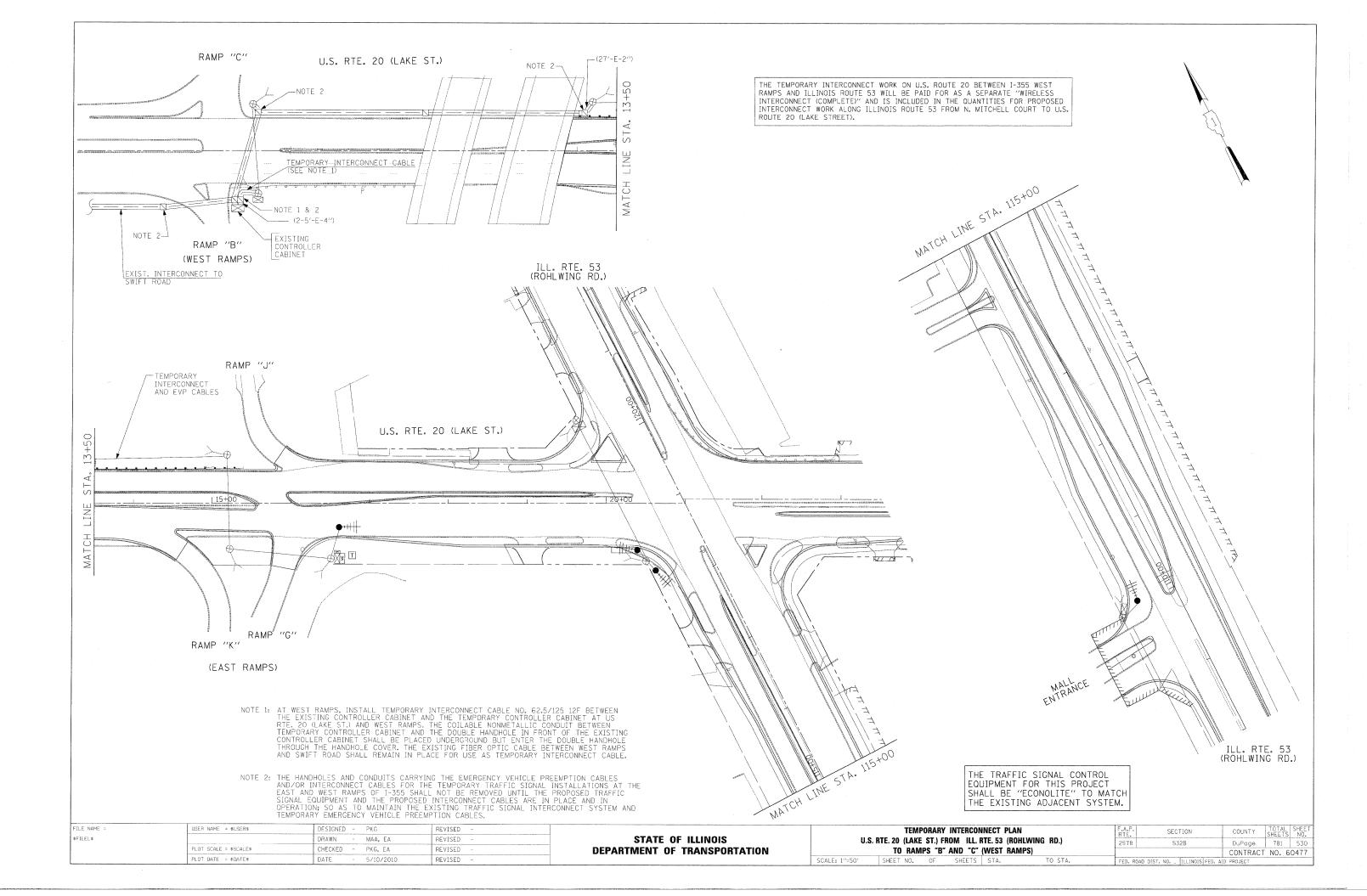
THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS PROJECT SHALL BE "ECONOLITE" TO MATCH THE EXISTING ADJACENT SYSTEM.

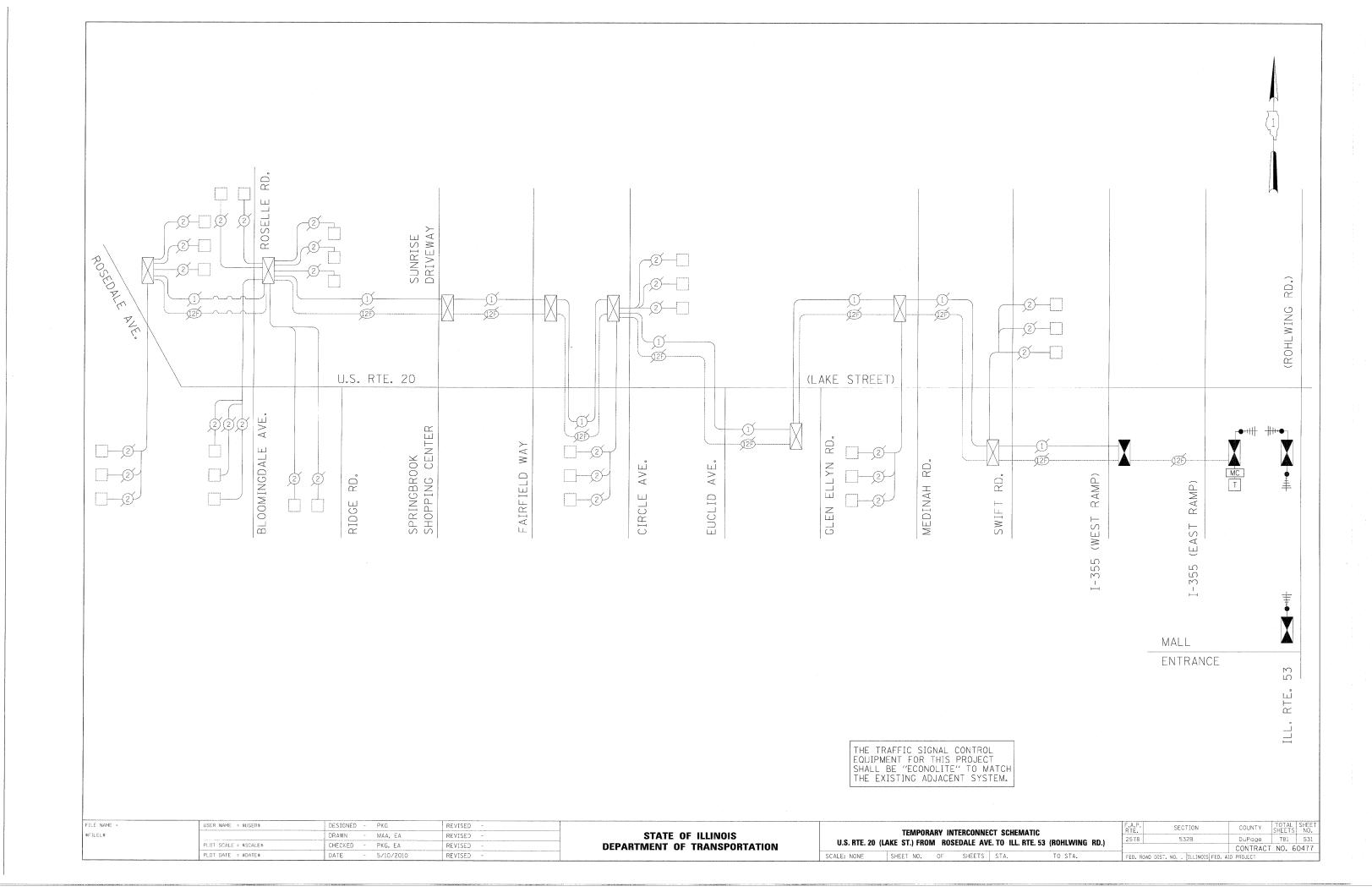
FILE NAME =	USER NAME = \$USER\$	DESIGNED -	PKG	REVISED -	
\$FILEL\$		DRAWN -	MAA, EA	REVISED -	
	PLOT SCALE = \$SCALE\$	CHECKED -	PKG, EA	REVISED -	
	PLOT DATE = \$DATE\$	DATE -	5/10/2010	REVISED -	

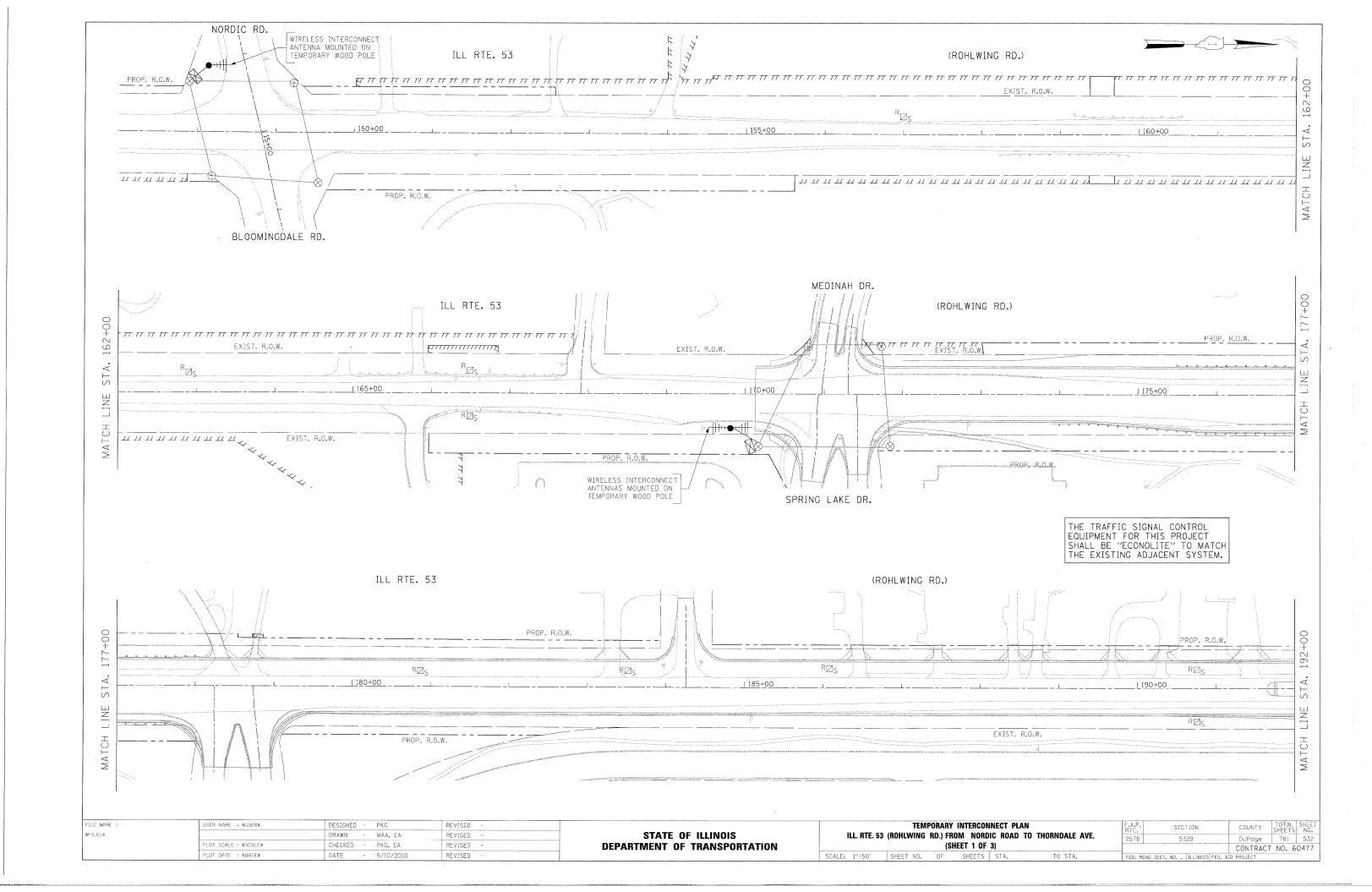
STATI	E 01	F ILLINOIS
DEPARTMENT	0F	TRANSPORTATION

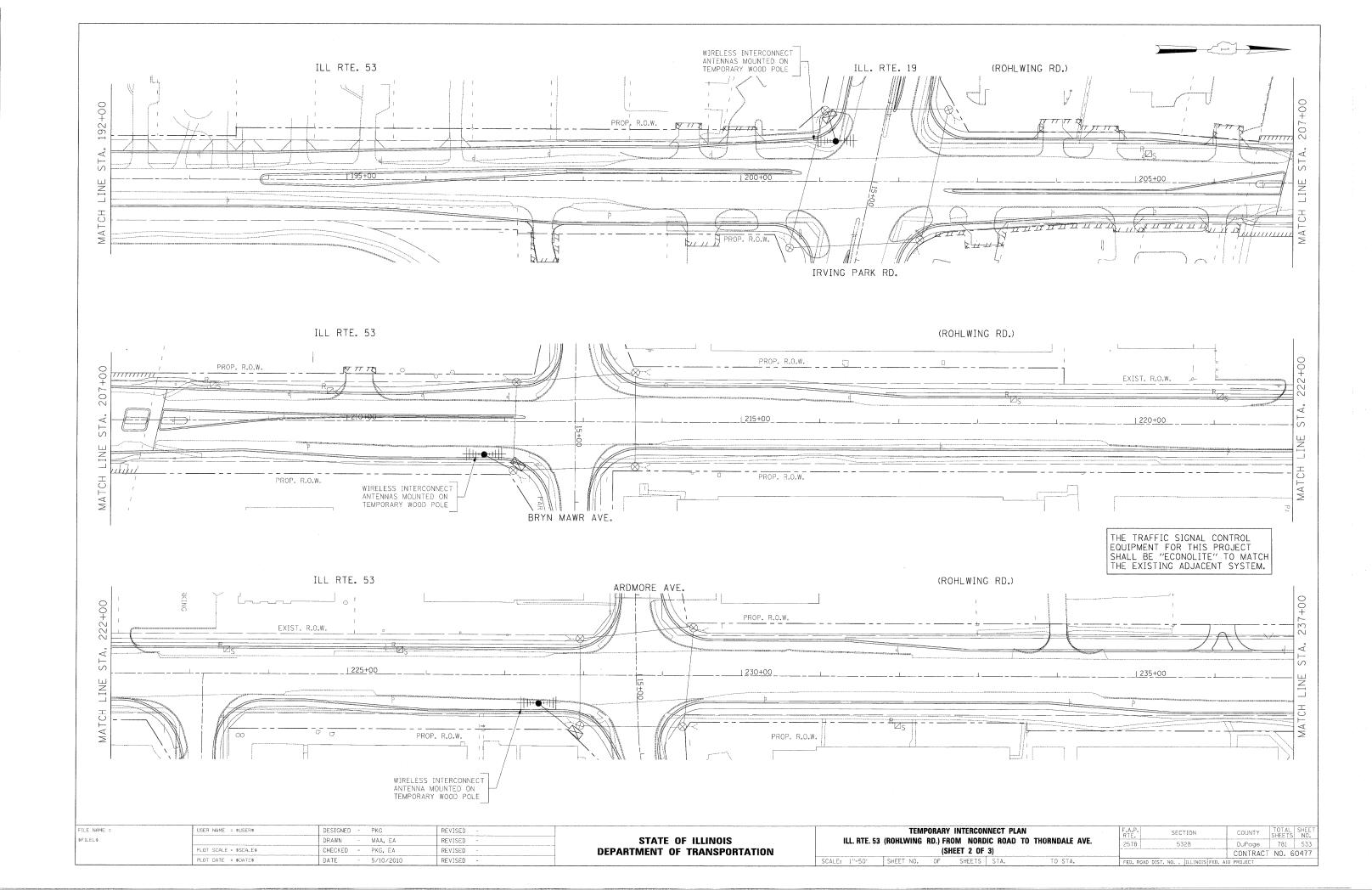
TEMPORARY INTERCONNECT SCHEMATIC										
ARMY TRAIL	ROAD	FROM	REGEN	CY DR. TO	D ILL. RTE. 53	(ROHLWING RD.)				
SCALE: NONE	SHEET I	VO. (OF	SHEETS	STA.	TO STA.				

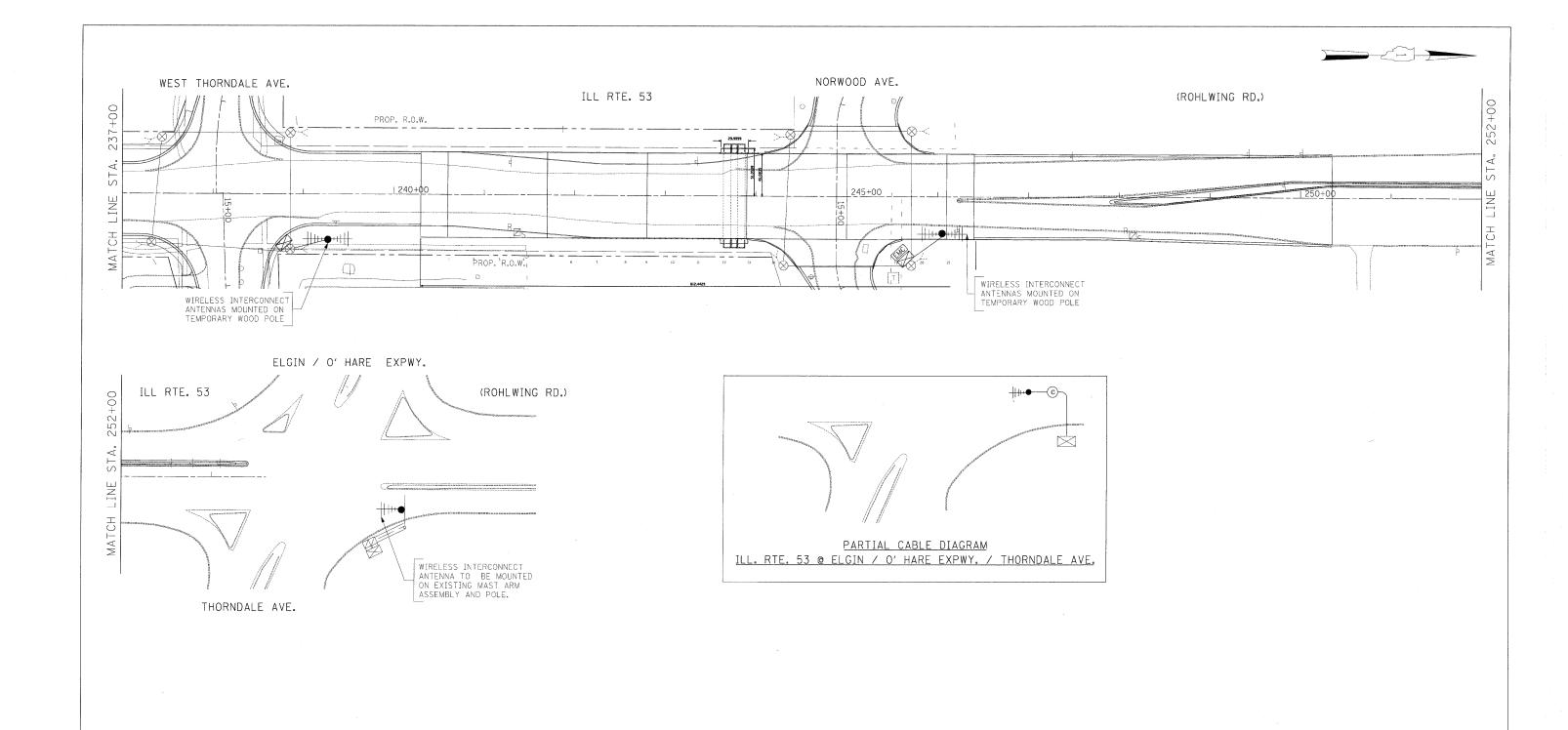
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2578	532B	DuPage	781	529
		CONTRACT	NO. 6	0477
FED. RO	DAD DIST. NO ILLINOIS FED. A	ID PROJECT		





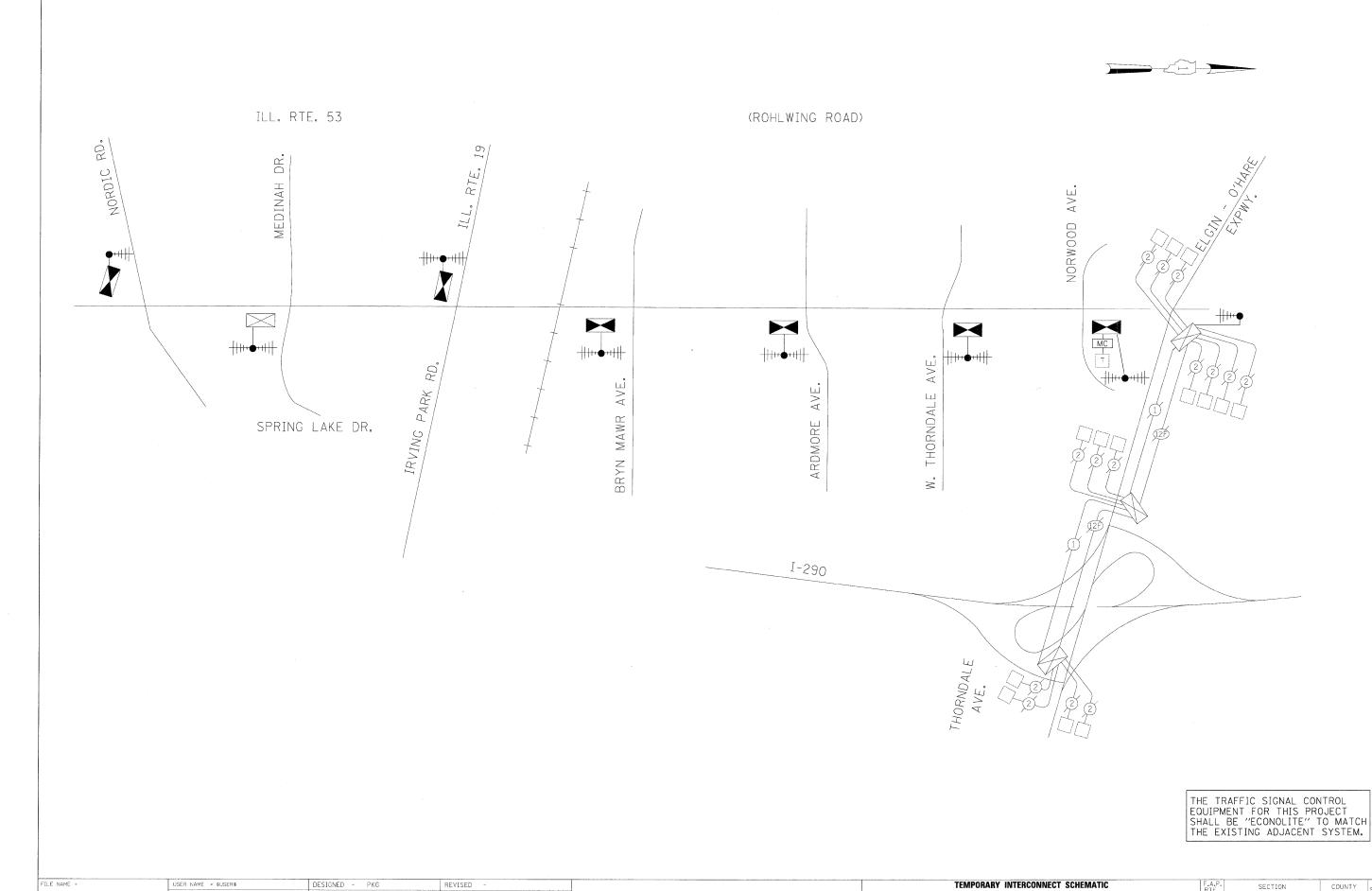






THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS PROJECT SHALL BE "ECONOLITE" TO MATCH THE EXISTING ADJACENT SYSTEM.

FILE NAME =	USER NAME = \$USER\$	DESIGNED - PKG	REVISED -		TEMPORARY INTERCONNECT PLAN	F.A.P. SECTION COUNTY TOTAL SHEET
\$FILEL\$		DRAWN - MAA, EA	REVISED -	STATE OF ILLINOIS	ILL. RTE. 53 (ROHLWING RD.) FROM NORDIC ROAD TO THORNDALE AVE.	2578 532B DuPage 781 534
	PLOT SCALE = \$SCALE\$	CHECKED - PKG, EA	REVISED -	DEPARTMENT OF TRANSPORTATION	(SHEET 3 OF 3)	CONTRACT NO. 60477
	PLOT DATE = \$DATE\$	DATE - 5/10/2010	REVISED -		SCALE: 1"=50" SHEET NO. OF SHEETS STA. TO STA.	FED. ROAD DIST. NO ILLINOIS FED. AID PROJECT



STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

\$FILEL\$

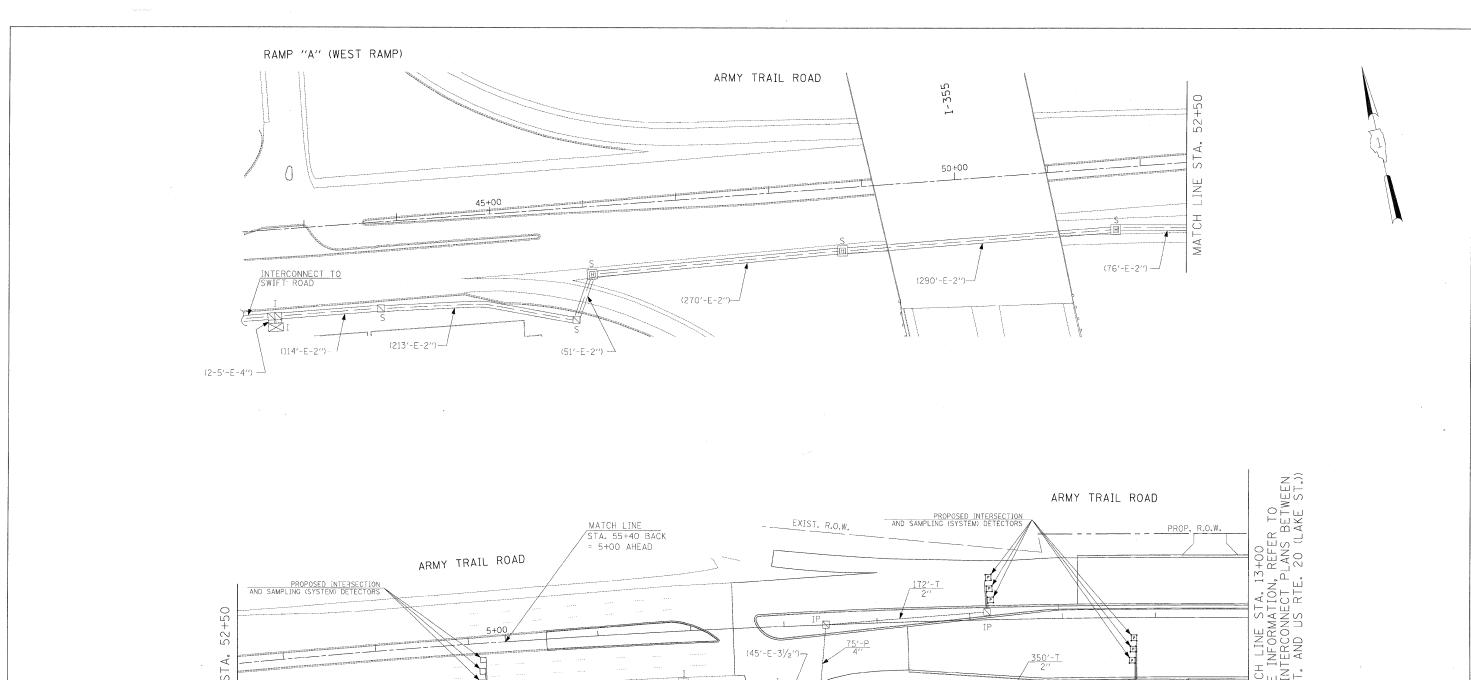
DRAWN

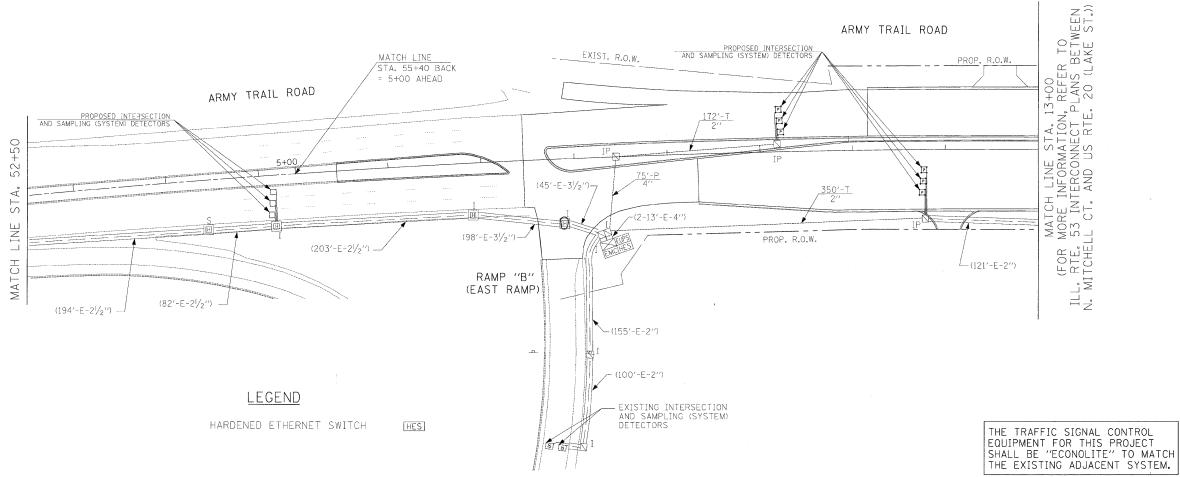
CHECKED

MAA, EA PKG, EA 5/10/2010 REVISED

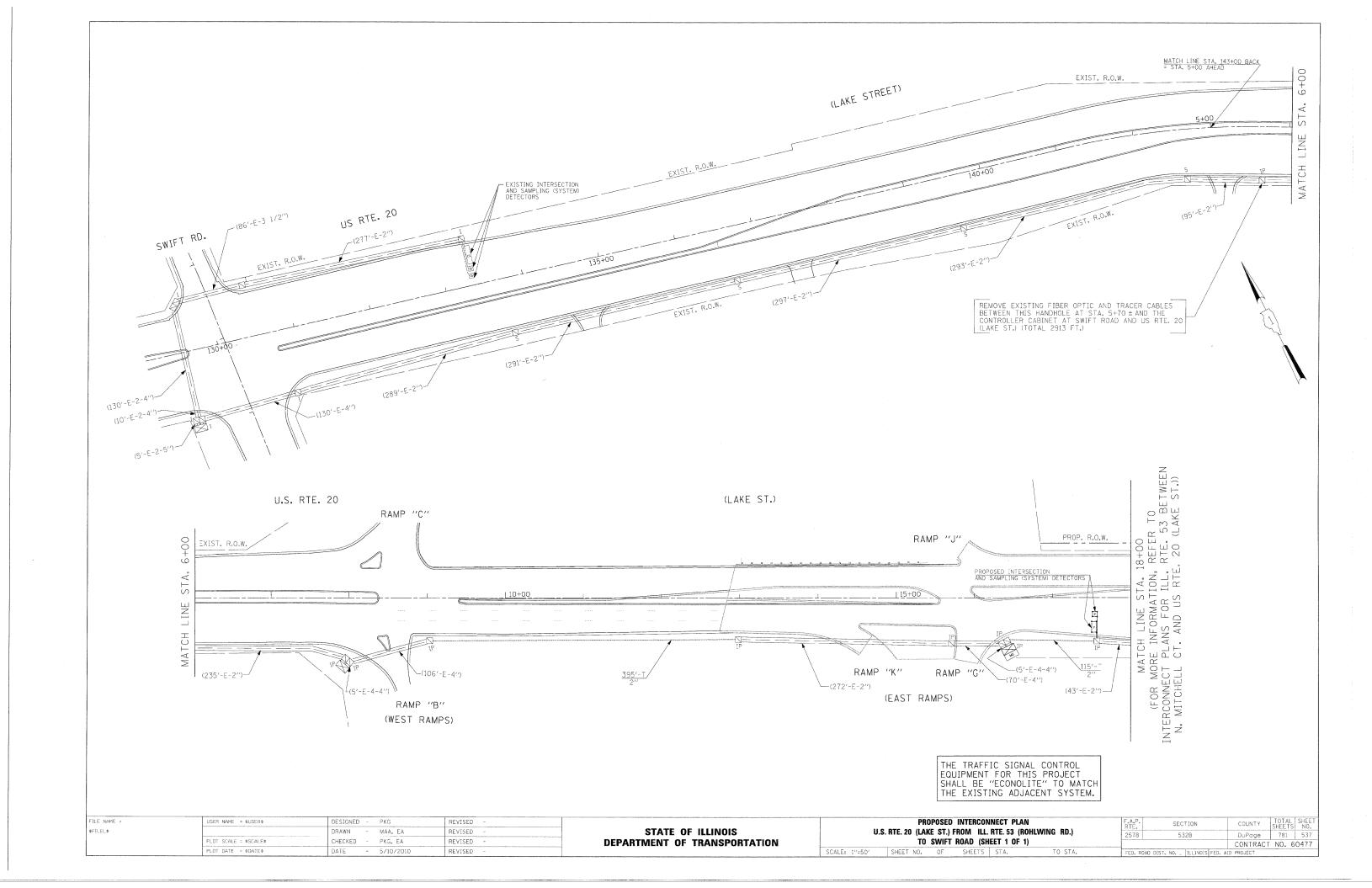
REVISED REVISED

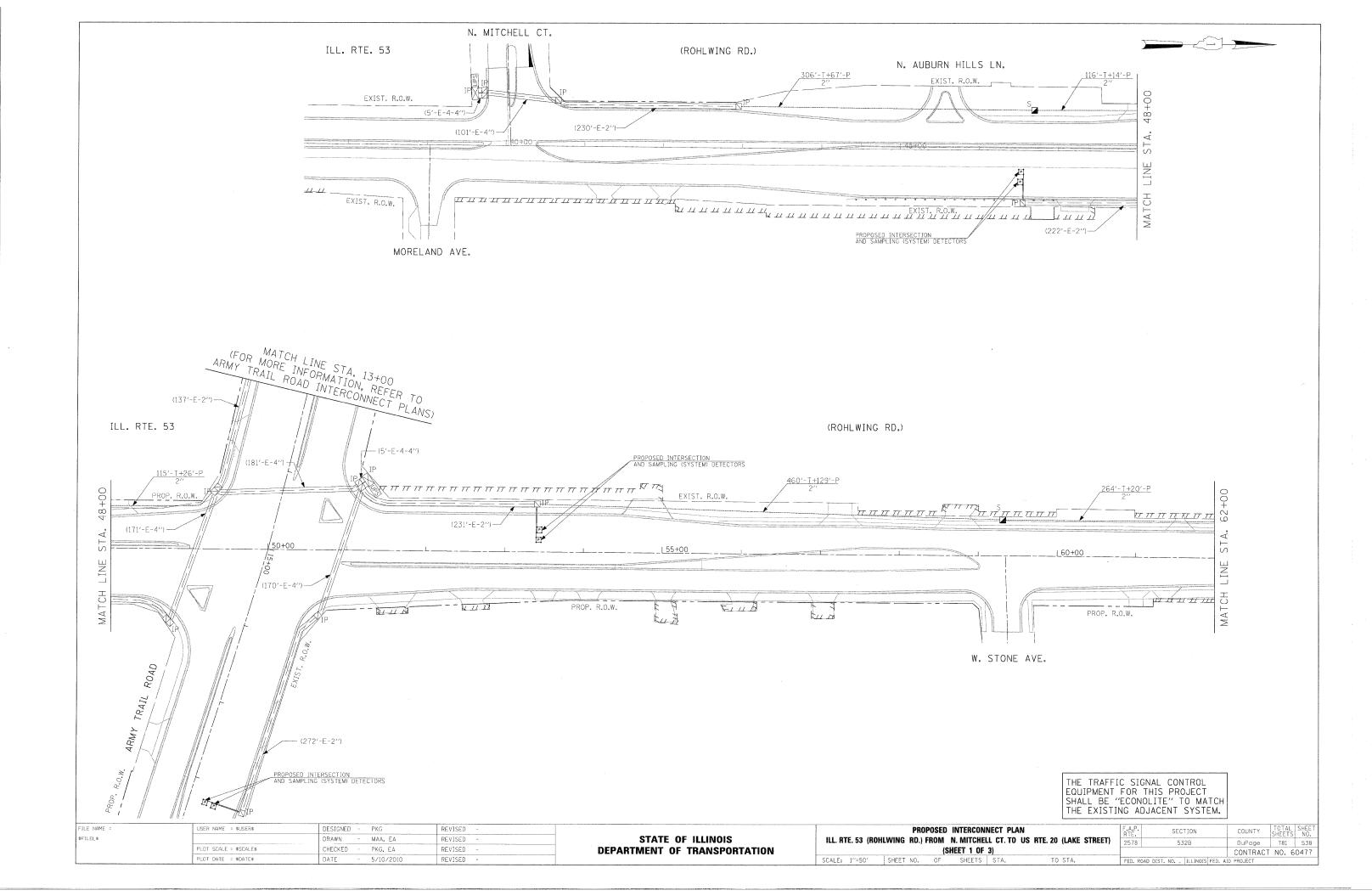
	TEMPORARY INTERCONNECT SCHEMATIC							F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	ILLINOIS ROUTE 53 (ROHLWING RD.) FROM NORDIC ROAD TO ELGIN-O'HARE EXPWY./THORNDALE AVE.							2578	5328	DuPage	781	535
										CONTRACT	NO. 6	0477
	SCALE:	NONE	SHEET NO.	OF	SHEETS	STA.	TO STA.	FED. RO	AD DIST. NO ILLINOIS FED. AI	D PROJECT		

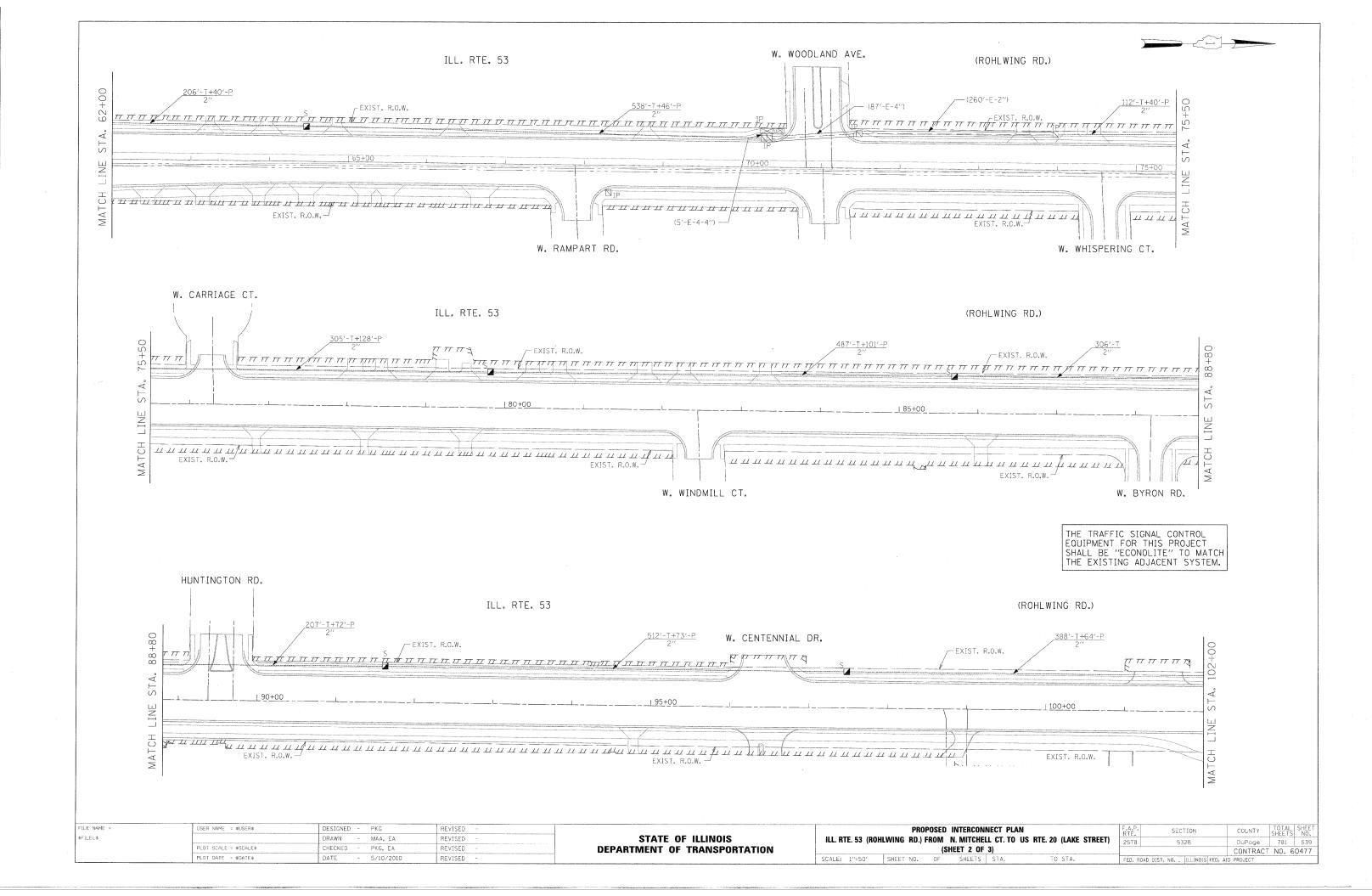


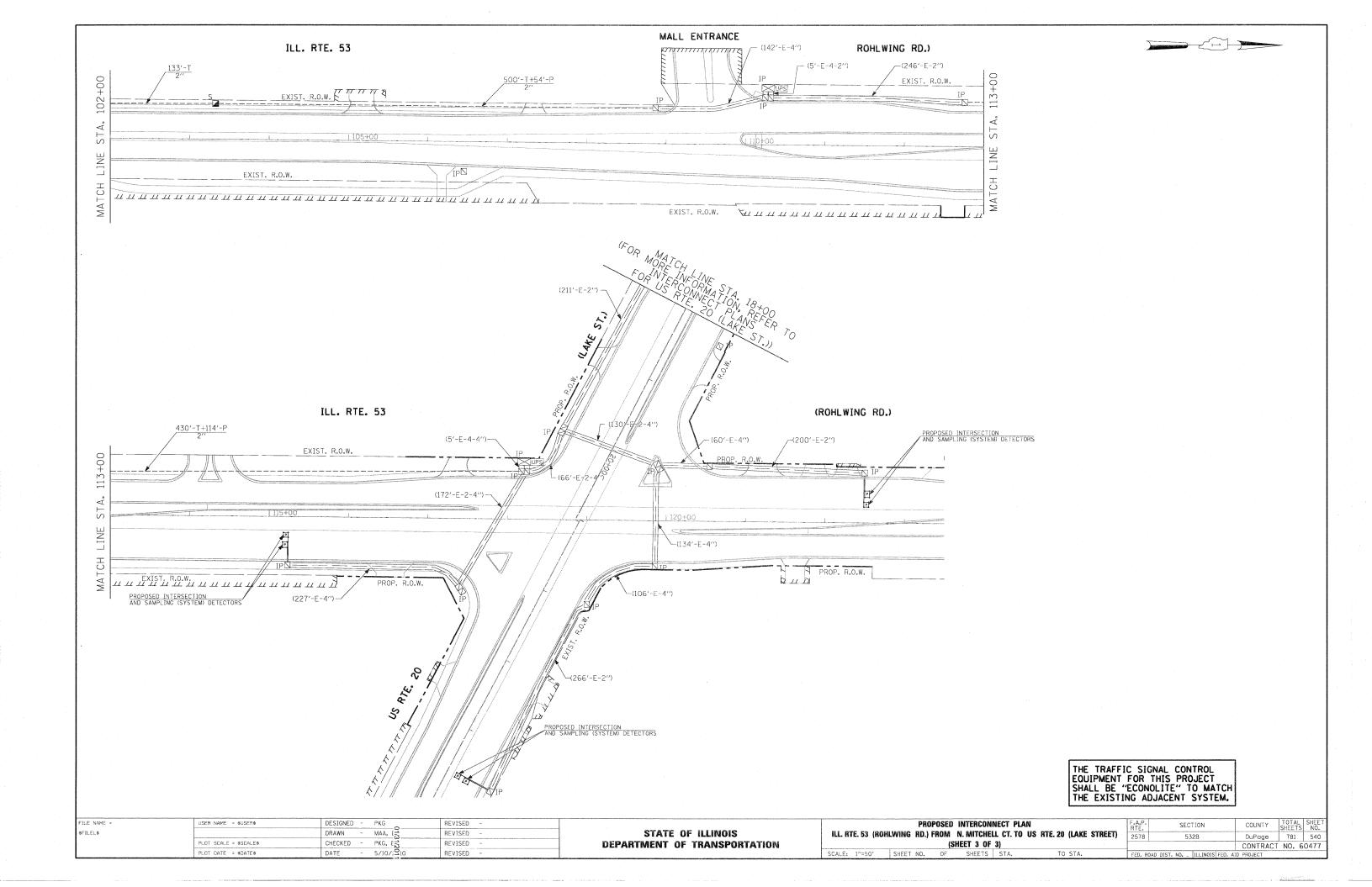


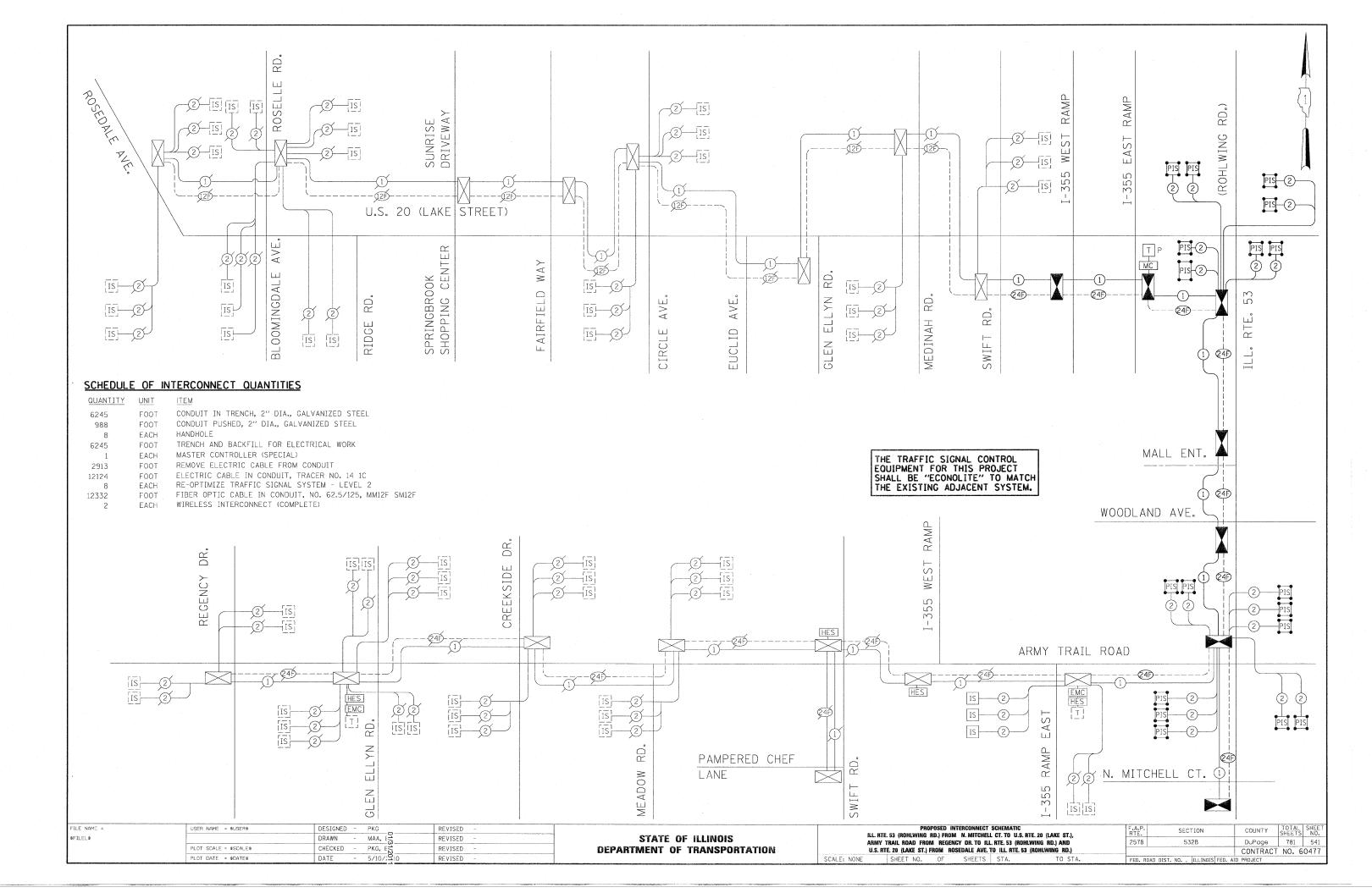
FILE NAME =	USER NAME = \$USER\$	DESIGNED - PKG	REVISED -		PROPOSED INTERCONNECT PLAN	F.A.P.	SECTION	COUNTY TOTAL SHEET
\$F(LEL\$		DRAWN - MAA, EA	REVISED -	STATE OF ILLINOIS	ARMY TRAIL ROAD FROM ILL. RTE. 53 (ROHLWING RD.) TO 1-355 RAMP "B"		532B	DuPage 781 536
	PLOT SCALE = \$SCALE\$	CHECKED - PKG, EA	REVISED -	DEPARTMENT OF TRANSPORTATION	(SHEET 1 OF 1)			CONTRACT NO. 60477
	PLOT DATE = \$DATE\$	DATE - 5/10/2010	REVISED -		SCALE: 1"=50" SHEET NO. OF SHEETS STA. TO STA.	FED. ROAD DI	ST. NO ILLINOIS FED.	AID PROJECT

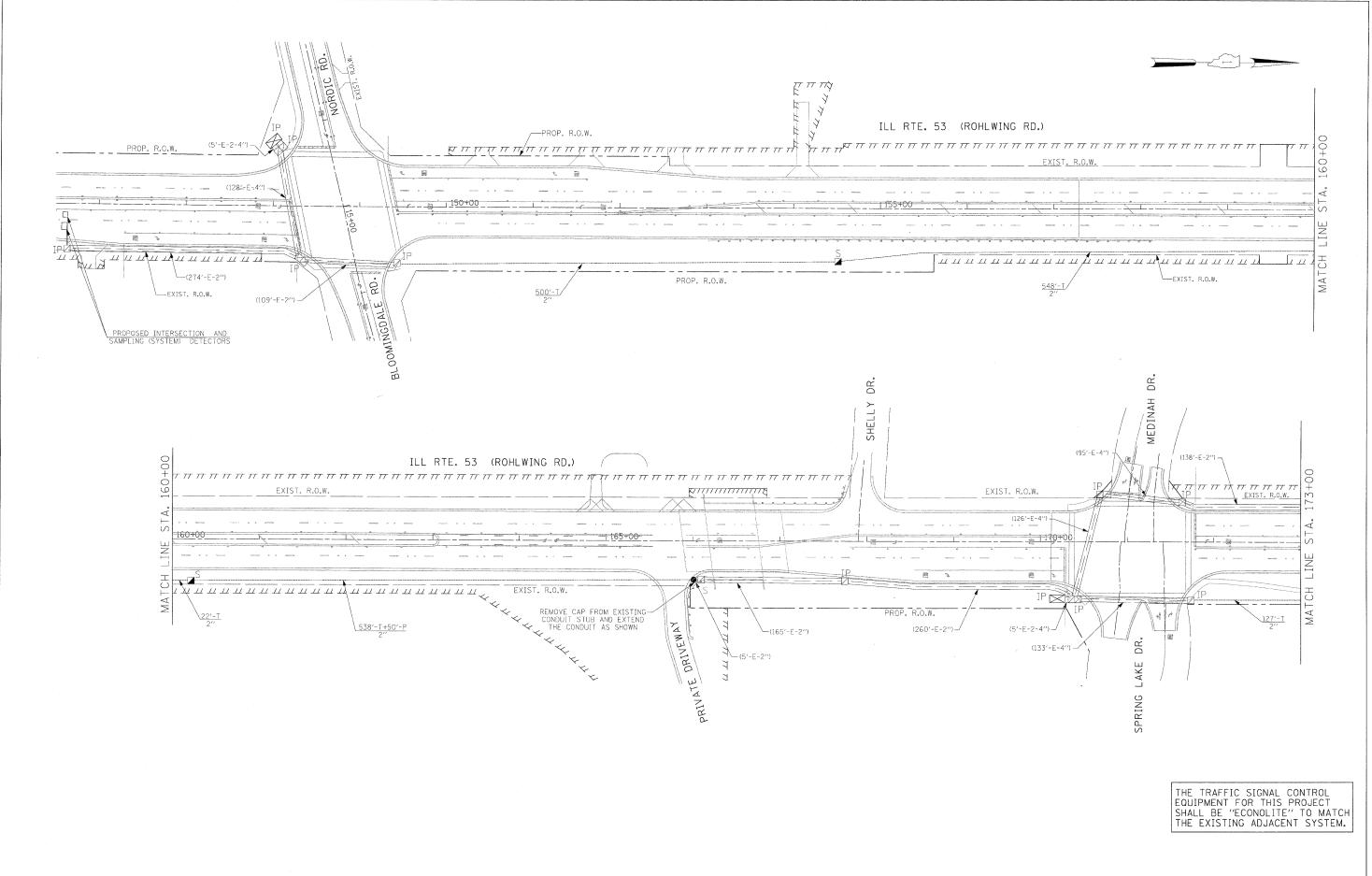




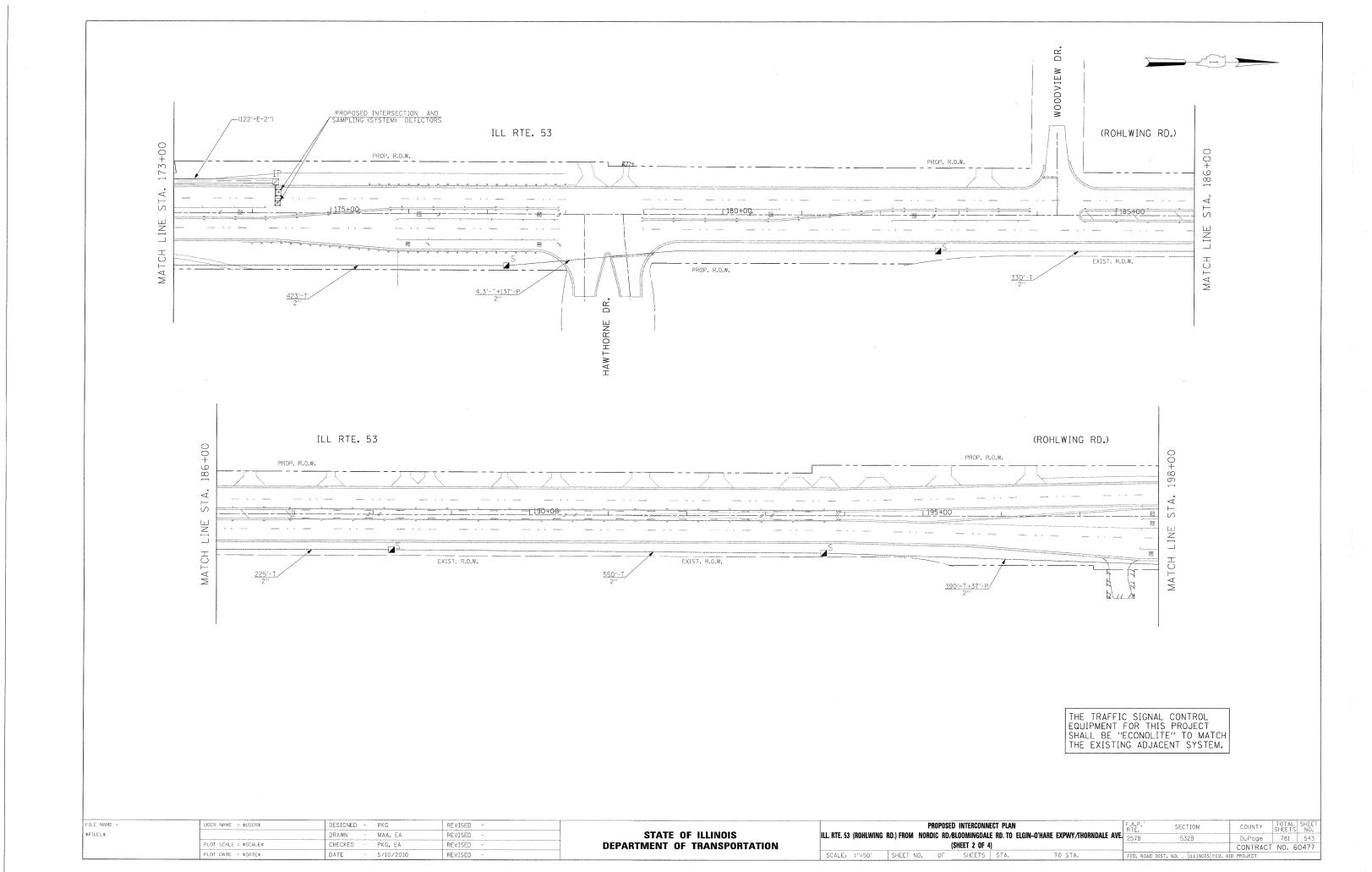


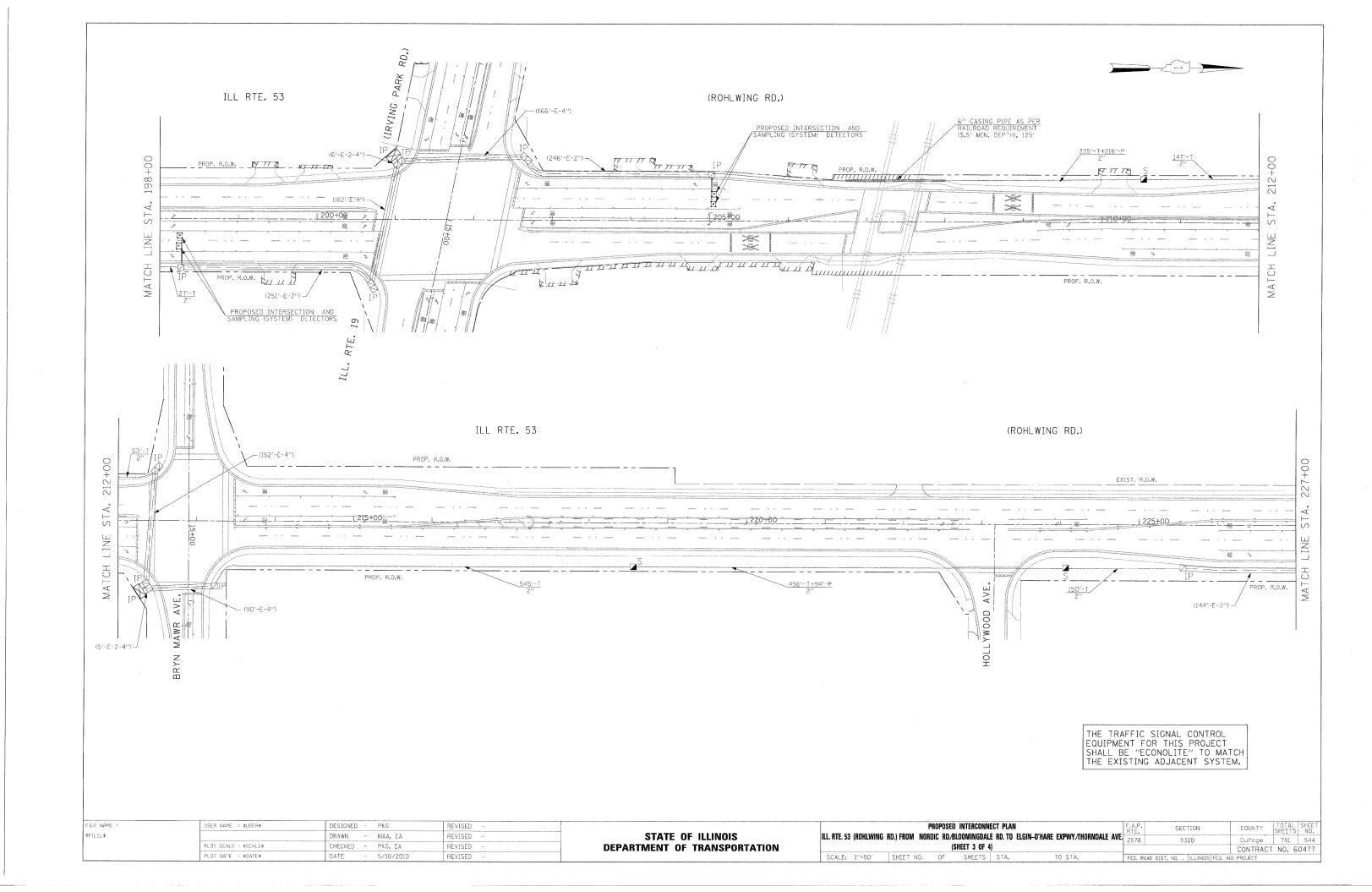


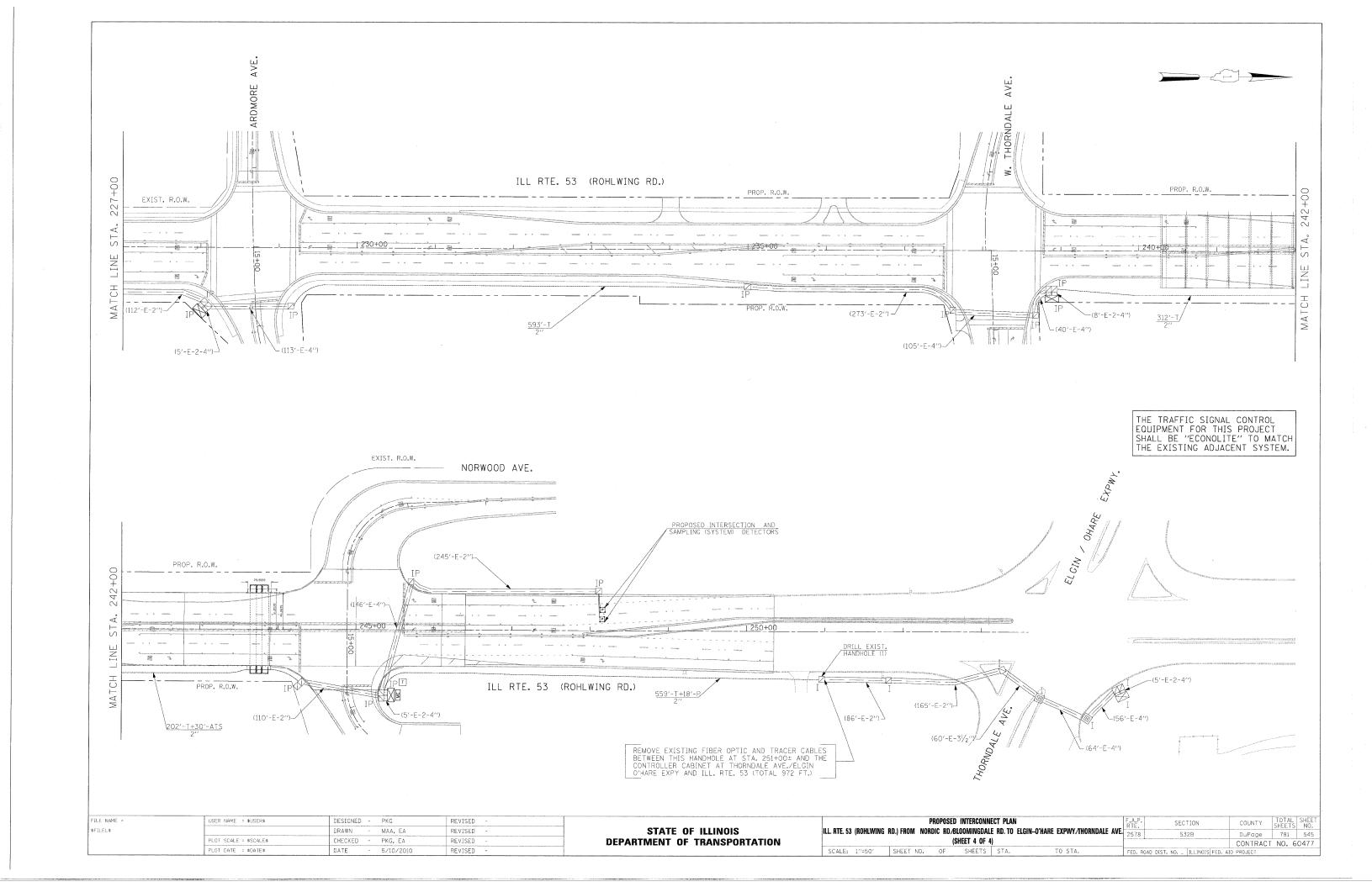


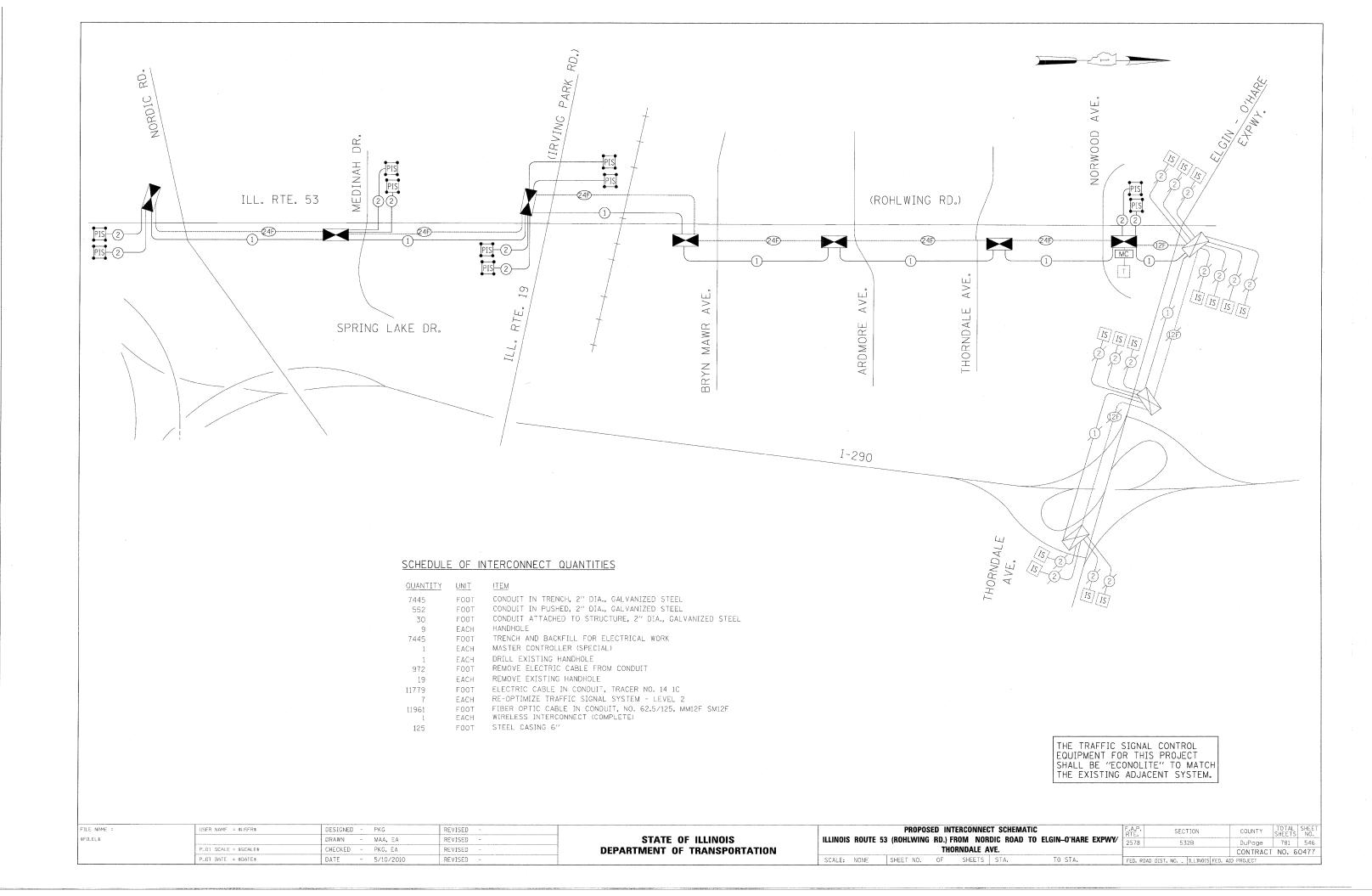


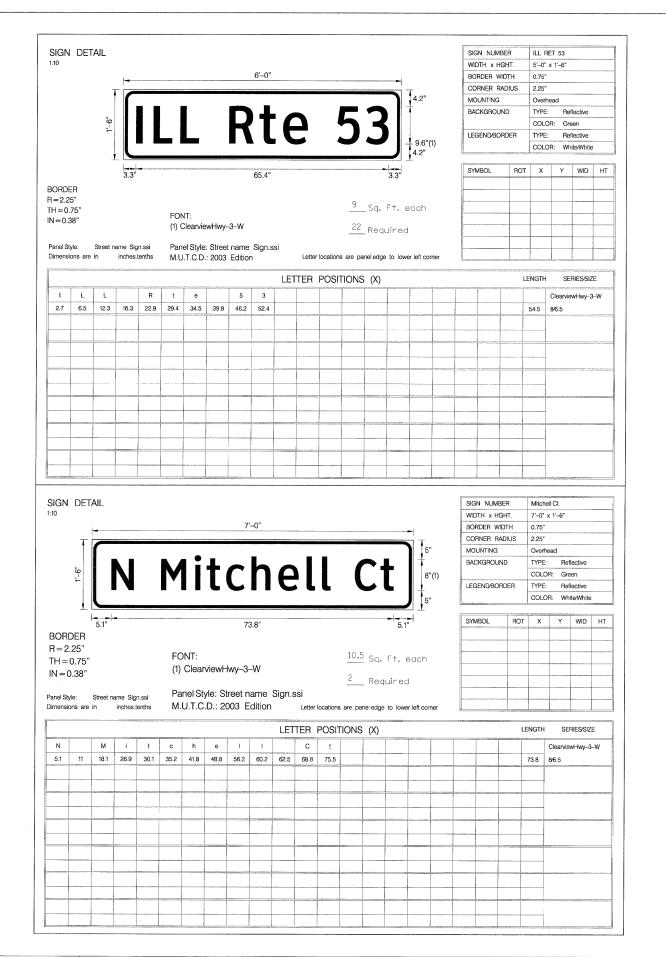
COUNTY TOTAL SHEET NO.
DuPage 781 542
CONTRACT NO. 60477 FILE NAME : DESIGNED -PKG REVISED PROPOSED INTERCONNECT PLAN SECTION STATE OF ILLINOIS \$FILEL\$ ILL. RTE. 53 (ROHLWING RD.) FROM NORDIC RD/BLOOMINGDALE RD. TO ELGIN-O'HARE EXPWY/THORNDALE AVE. DRAWN MAA, EA REVISED 532B (SHEET 1 OF 4) PLOT SCALE = \$SCALE\$ CHECKED - PKG, EA REVISED **DEPARTMENT OF TRANSPORTATION** REVISED SCALE: 1"=50" SHEET NO. SHEETS STA. TO STA. FED. ROAD DIST, NO. _ ILLINOIS FED. AID PROJECT

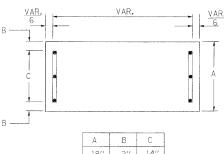


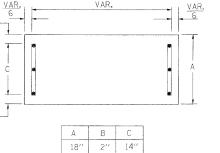


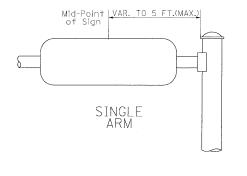




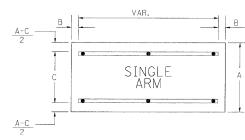




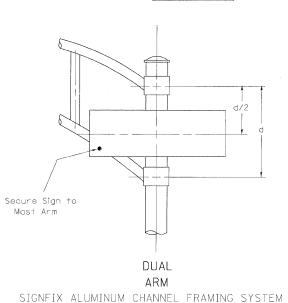




SUPPORTING CHANNELS



А	В	С
18''	2''	12''
30′′	2''	22"



Shall be used. See Note #5.

GENERAL NOTES

- 1. WHERE MAST ARM MOUNTED STREET NAME SIGNS ARE SPECIFIED, THE MAST ARM ASSEMBLY AND POLES SHALL BE DESIGNED TO SUPPORT THE LOADINGS CALLED FOR ON STANDARDS 877001, 877002, 877006, 877011 AND 877012, AS APPLICABLE, PLUS TWO (2) SIGN PANELS 2'-6" x 8'-0" MOUNTED AS SHOWN. THE DESIGN SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE CURRENT "STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES, AND TRAFFIC SIGNALS" AS PUBLISHED BY THE AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS FOR 80 M.P.H. WIND VELOCITY.
- 2. ALL SIGNS SHALL HAVE A WHITE 3-W CLEARVIEW HIGHWAY FONT WITH 3M-S NEW DG3 REFLECTIVE LEGEND AND BORDER ON A GREEN 3M-S NEW DG3 REFLECTIVE BACKGROUND SHEETING.
- 3. THE SIGN LENGTH SHOULD BE INCREASED IN 6-INCH INCREMENTS, BUT THE OVERALL LENGTH SHOULD NOT EXCEED 8'-0".
- 4. ALL BORDERS SHALL BE 3/4" WIDE AND CORNER RADIUS SHALL BE 2-1/4 ".
- 5. SIGNFIX ALUMINUM CHANNEL FRAMING SYSTEM SHALL BE USED FOR ALL SIGNS ATTACHED TO SIGNAL POLES AND POSTS. LOCAL SUPPLIERS OF THE SIGNFIX ALUMINUM CHANNEL FRAMING SYSTEM ARE:
- * A.K.T. CORPORATION SCHAUMBURG, IL
- * TUCKER COMPANY, INC. WAUWATOSA, WI
- * AMERICAN FABRICATION CO. CHICAGO HEIGHTS, IL
- * WESTERN TRAFFIC CONTROL INC. CICERO, IL

PARTS LISTING: SIGN CHANNEL

BRACKETS

PART #HPN053 (MED. CHANNEL) SIGN SCREWS

 $\frac{1}{4}$ " × 14 × 1" H.W.H. #3 SELF TAPPING WITH NEOPRENE WASHER

PART #HPNO34 (UNIVERSAL)

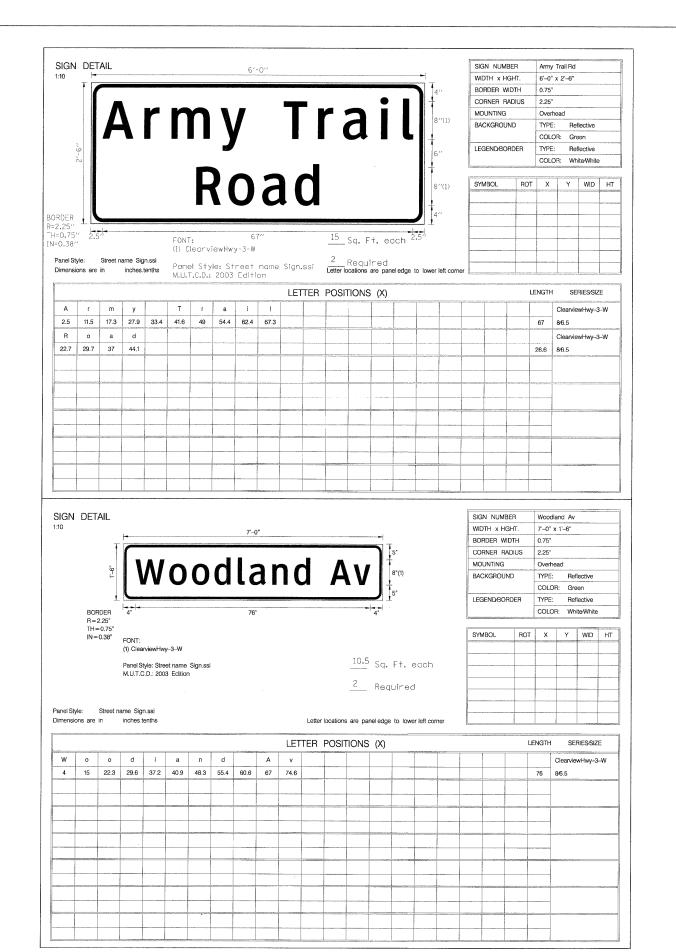
CHANNEL CLAMPS WITH STAINLESS STEEL STRAPPING

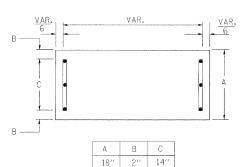
OTHER BRANDS OF MOUNTING HARDWARE ARE ACCEPTABLE, BASED UPON THE DEPARTMENT'S APPROVAL AND COMPATIBILITY WITH THE CHANNEL/BRACKET OF THE ABOVE PRODUCT.

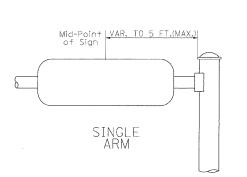
FILE NAME : \$FILEL\$

USER NAME = \$USER\$	DESIGNED	~	PKG	REVISED .	-
	DRAWN	**	MAA, EA	REVISED	-
PLOT SCALE = \$SCALE\$	CHECKED	-	PKG, EA	REVISED	_
PLOT CATE = \$DATE\$	DATE	-	5/10/2010	REVISED	-

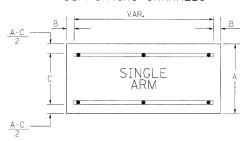
		MAST		F.A.P. RTE.	SECTION	COUNTY TOTAL SHEETS				
			T NAME S	2578	532B	DuPage	781	547		
		(5)	IEET 1 OF			CONTRACT	NO. 6	0477		
SCALE: NONE	SHEET NO.	OF	SHEETS	STA,	TO STA.	FED. RO	DAD DIST. NO ILLINOIS FED. AI	D PROJECT		



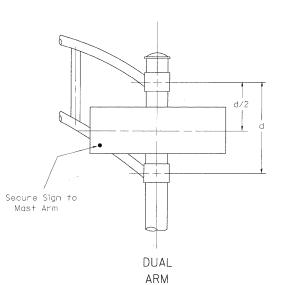




SUPPORTING CHANNELS



А	В	С
18′′	2"	12"
30"	2"	22"



SIGNFIX ALUMINUM CHANNEL FRAMING SYSTEM Shall be used. See Note #5.

GENERAL NOTES

- 1. WHERE MAST ARM MOUNTED STREET NAME SIGNS ARE SPECIFIED, THE MAST ARM ASSEMBLY AND POLES SHALL BE DESIGNED TO SUPPORT THE LOADINGS CALLED FOR ON STANDARDS 877001, 877002, 877006, 877011 AND 877012, AS APPLICABLE, PLUS TWO (2) SIGN PANELS 2'-6" x 8'-0" MOUNTED AS SHOWN. THE DESIGN SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE CURRENT "STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES, AND TRAFFIC SIGNALS" AS PUBLISHED BY THE AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS FOR 80 M.P.H. WIND VELOCITY.
- 2. ALL SIGNS SHALL HAVE A WHITE 3-W CLEARVIEW HIGHWAY FONT WITH 3M-S NEW DG3 REFLECTIVE LEGEND AND BORDER ON A GREEN 3M-S NEW DG3 REFLECTIVE BACKGROUND SHEETING.
- 3. THE SIGN LENGTH SHOULD BE INCREASED IN 6-INCH INCREMENTS, BUT THE OVERALL LENGTH SHOULD NOT EXCEED
- 4, ALL BORDERS SHALL BE $\frac{3}{4}$ " WIDE AND CORNER RADIUS SHALL BE 2-1/4 ".
- 5. SIGNFIX ALUMINUM CHANNEL FRAMING SYSTEM SHALL BE USED FOR ALL SIGNS ATTACHED TO SIGNAL POLES AND POSTS. LOCAL SUPPLIERS OF THE SIGNFIX ALUMINUM CHANNEL FRAMING SYSTEM ARE:
- * A.K.T. CORPORATION
- SCHAUMBURG, IL
- * TUCKER COMPANY, INC. WAUWATOSA, WI
- * AMERICAN FABRICATION CO.
- CHICAGO HEIGHTS, IL
- * WESTERN TRAFFIC CONTROL INC.

PARTS LISTING:

SIGN CHANNEL SIGN SCREWS

BRACKETS

PART #HPN053 (MED. CHANNEL)

 $\frac{1}{4}$ " × 14 × 1" H.W.H. #3 SELF TAPPING WITH NEOPRENE WASHER

PART #HPN034 (UNIVERSAL)

CHANNEL CLAMPS WITH STAINLESS STEEL STRAPPING

OTHER BRANDS OF MOUNTING HARDWARE ARE ACCEPTABLE, BASED UPON THE DEPARTMENT'S APPROVAL AND COMPATIBILITY WITH THE CHANNEL/BRACKET OF THE ABOVE PRODUCT.

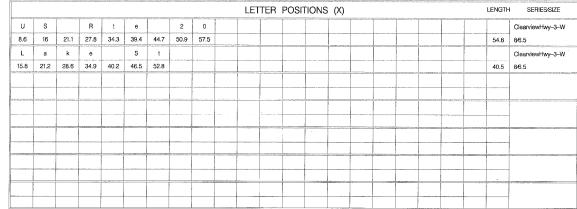
FILE NAME \$FILEL\$

USER NAME = \$USER\$	DESIGNED	-	PKG	REVISED	w
	DRAWN	-	MAA, EA	REVISED	-
PLOT SCALE = \$SCALE\$	CHECKED	-	PKG, EA	REVISED	-
PLOT DATE = \$DATE\$	DATE	-	5/10/2010	REVISED	-

STATE	OF	ILLINOIS	
DEPARTMENT	OF '	TRANSPORTATION	

			ARM MOU	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.		
			ET NAME S	2578	532B	DuPage	781	548		
# A C C C C C C C C C C C C C C C C C C		(S	HEET 2 OF			CONTRACT	NO. 6	50477		
SCALE: NONE	SHEET NO.	OF	SHEETS	STA.	TO STA.	FED. RO	AD DIST, NO ILLINOIS FED. AI	D PROJECT		





US Rte 20

0.75"

Overhead TYPE: Reflective

COLOR: Green

TYPE: Reflective

ROT X Y WID HT

Nordic Rd

5'-0" x 1'-6"

Overhead

TYPE: Reflective

COLOR: Green

TYPE: Reflective

COLOR: White-White

ROT X Y WID HT

0.75"

WIDTH x HGHT.

BORDER WIDTH

BACKGROUND

LEGEND/BORDER

CORNER RADIUS 2.25" MOUNTING

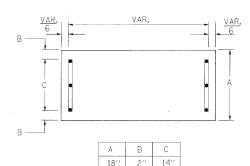
COLOR: WhiteWhite

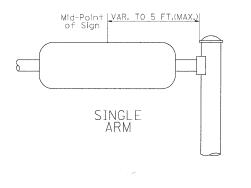


Panel Style:		Street name	Sign.ssi
Dimensions	are	in inch	es.tenths

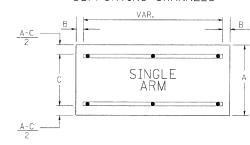
imensi	ons are	in	inches.t	tenths						Letter	locations	are pa	nel edge	to lowe	er left cor	ner				
									LET	TER	POSIT	FIONS	(X)						LENGTH	SERIES/SIZE
N	0	r	d	i	С		R	d												ClearviewHwy-3-V
2.5	10.4	18.1	22.9	30.3	33.9	38.7	45.3	52.3		1				ļ	<u> </u>			ļ	55	8/6.5
									 	-	-									
											\									
			l I						 <u> </u>						1			<u> </u>		
									 			!								
												l								
														-						

SUPPORTING CHANNELS

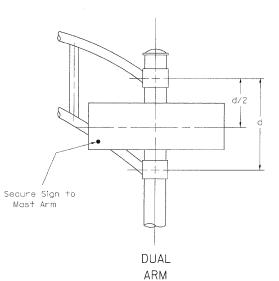




SUPPORTING CHANNELS



А	В	С
18′′	2''	12''
30′′	2"	22''



SIGNFIX ALUMINUM CHANNEL FRAMING SYSTEM Shall be used. See Note #5.

GENERAL NOTES

- 1. WHERE MAST ARM MOUNTED STREET NAME SIGNS ARE SPECIFIED, THE MAST ARM ASSEMBLY AND POLES SHALL BE DESIGNED TO SUPPORT THE LOADINGS CALLED FOR ON STANDARDS 877001, 877002, 877006, 877011 AND 877012, AS APPLICABLE, PLUS TWO (2) SIGN PANELS 2'-6" x 8'-0" MOUNTED AS SHOWN. THE DESIGN SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE CURRENT "STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES, AND TRAFFIC SIGNALS" AS PUBLISHED BY THE AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS FOR 80 M.P.H. WIND VELOCITY.
- 2. ALL SIGNS SHALL HAVE A WHITE 3-W CLEARVIEW HIGHWAY FONT WITH 3M-S NEW DG3 REFLECTIVE LEGEND AND BORDER ON A GREEN 3M-S NEW DG3 REFLECTIVE BACKGROUND SHEETING.
- 3. THE SIGN LENGTH SHOULD BE INCREASED IN 6-INCH INCREMENTS, BUT THE OVERALL LENGTH SHOULD NOT EXCEED 8'-0".
- 4. ALL BORDERS SHALL BE $\frac{3}{4}$ " WIDE AND CORNER RADIUS SHALL BE 2-1/4 ".
- 5. SIGNFIX ALUMINUM CHANNEL FRAMING SYSTEM SHALL BE USED FOR ALL SIGNS ATTACHED TO SIGNAL POLES AND POSTS. LOCAL SUPPLIERS OF THE SIGNFIX ALUMINUM CHANNEL FRAMING SYSTEM ARE:
- * A.K.T. CORPORATION
- * TUCKER COMPANY, INC. WAUWATOSA, WI
- SCHAUMBURG, IL
- * AMERICAN FABRICATION CO.
- CHICAGO HEIGHTS, IL
- * WESTERN TRAFFIC CONTROL INC. CICERO, IL

PARTS LISTING:

SIGN CHANNEL SIGN SCREWS

BRACKETS

PART #HPN053 (MED. CHANNEL)

 $\frac{1}{4}$ " × 14 × 1" H.W.H. #3 SELF TAPPING WITH NEOPRENE WASHER

PART #HPN034 (UNIVERSAL)

CHANNEL CLAMPS WITH STAINLESS STEEL STRAPPING

OTHER BRANDS OF MOUNTING HARDWARE ARE ACCEPTABLE, BASED UPON THE DEPARTMENT'S APPROVAL AND COMPATIBILITY WITH THE CHANNEL/BRACKET OF THE ABOVE PRODUCT.

7	II.	E	NAME	=
B	FĮ	LΕ	1.\$	

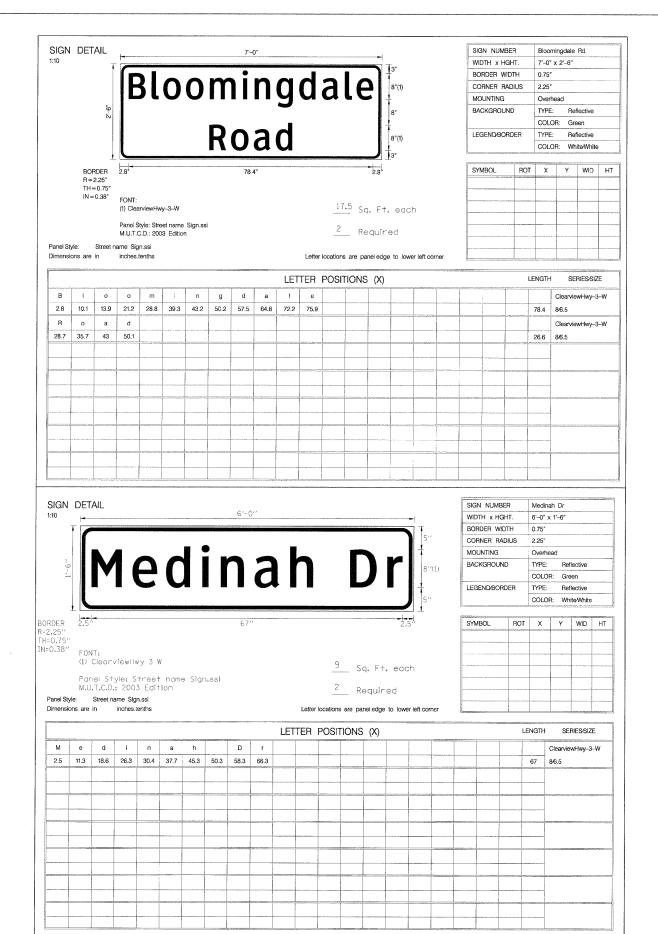
USER NAME ≈ \$USER\$	DESIGNED	-	PKG	REVISED	_	٠
	DRAWN	**	MAA, EA	REVISED	m	
PLOT SCALE = \$SCALE\$	CHECKED	-	PKG, EA	REVISED	-	
PLOT DATE = \$DATE\$	DATE	-	5/10/2010	REVISED		

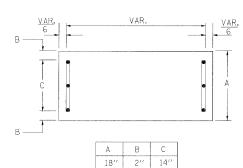
STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

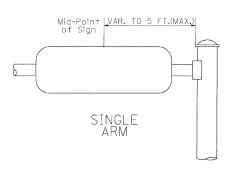
		BESOT		INTERN									
		MAST	AKW MU	UNTED									
STREET NAME SIGNS													
	(SHEET 3 OF 7)												
ALE: NONE	SHEET NO.	OF	SHEETS	STA.	TO STA.								

COUNTY TOTAL SHEETS NO.

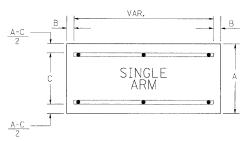
DuPage 781 549 SECTION 532B CONTRACT NO. 60477 FED. ROAD DIST. NO. _ ILLINOIS FED. AID PROJECT



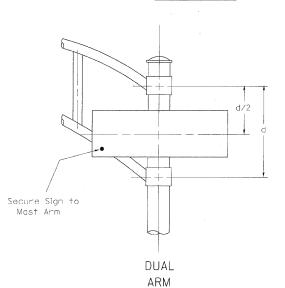




SUPPORTING CHANNELS



А	В	С
18''	2''	12"
30′′	2"	22"



SIGNFIX ALUMINUM CHANNEL FRAMING SYSTEM Shall be used. See Note #5.

GENERAL NOTES

- 1. WHERE MAST ARM MOUNTED STREET NAME SIGNS ARE SPECIFIED, THE MAST ARM ASSEMBLY AND POLES SHALL BE DESIGNED TO SUPPORT THE LOADINGS CALLED FOR ON STANDARDS 877001, 877002, 877006, 877011 AND 877012, AS APPLICABLE, PLUS TWO (2) SIGN PANELS 2'-6" x 8'-0" MOUNTED AS SHOWN. THE DESIGN SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE CURRENT "STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS. LUMINAIRES, AND TRAFFIC SIGNALS" AS PUBLISHED BY THE AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS FOR 80 M.P.H. WIND VELOCITY.
- 2, ALL SIGNS SHALL HAVE A WHITE 3-W CLEARVIEW HIGHWAY FONT WITH 3M-S NEW DG3 REFLECTIVE LEGEND AND BORDER ON A GREEN 3M-S NEW DG3 REFLECTIVE BACKGROUND SHEETING.
- 3, THE SIGN LENGTH SHOULD BE INCREASED IN 6-INCH INCREMENTS, BUT THE OVERALL LENGTH SHOULD NOT EXCEED
- 4. ALL BORDERS SHALL BE $\frac{3}{4}$ " WIDE AND CORNER RADIUS SHALL BE 2-1/4 ".
- 5. SIGNFIX ALUMINUM CHANNEL FRAMING SYSTEM SHALL BE USED FOR ALL SIGNS ATTACHED TO SIGNAL POLES AND POSTS. LOCAL SUPPLIERS OF THE SIGNFIX ALUMINUM CHANNEL FRAMING SYSTEM ARE:
- * A.K.T. CORPORATION
- SCHAUMBURG, IL
- * TUCKER COMPANY, INC. WAUWATOSA, WI

SCALE: NONE

- * AMERICAN FABRICATION CO.
- CHICAGO HEIGHTS, IL
- * WESTERN TRAFFIC CONTROL INC. CICERO, IL

PARTS LISTING:

SIGN CHANNEL SIGN SCREWS

BRACKETS

PART #HPN053 (MED. CHANNEL)

 $\frac{1}{4}$ " × 14 × 1" H.W.H. #3

SELF TAPPING WITH NEOPRENE WASHER

PART #HPN034 (UNIVERSAL)

CHANNEL CLAMPS WITH STAINLESS STEEL STRAPPING

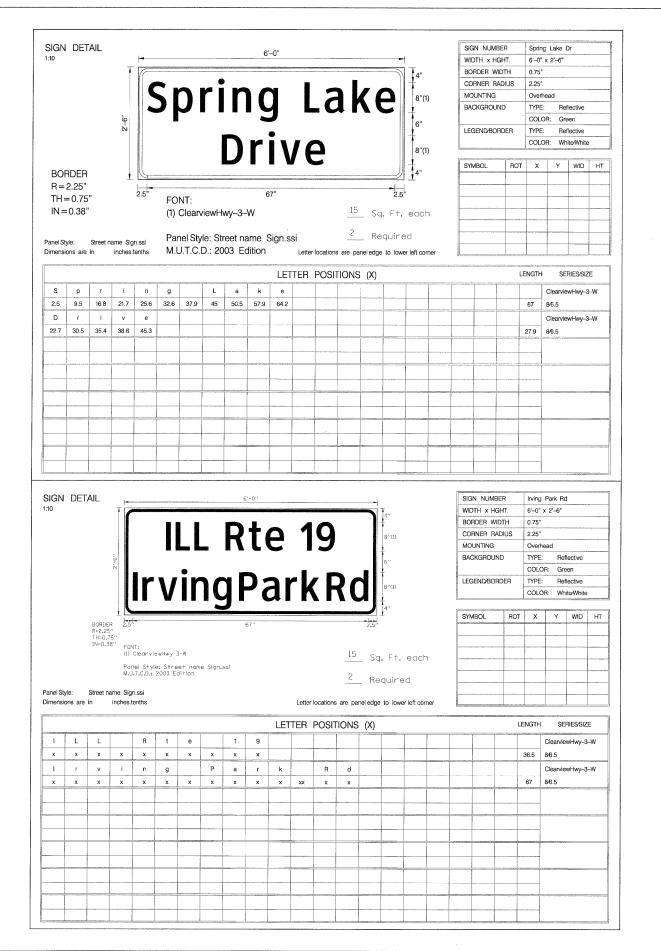
OTHER BRANDS OF MOUNTING HARDWARE ARE ACCEPTABLE, BASED UPON THE DEPARTMENT'S APPROVAL AND

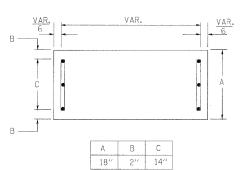
COMPATIBILITY WITH THE CHANNEL/BRACKET OF THE ABOVE PRODUCT.

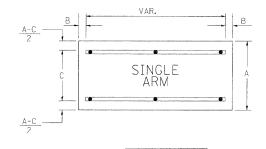
FILE NAME =	USER NAME = \$USER\$	DESIGNED	-	PKG	REVISED -	-
\$FILEL\$		DRAWN	-	MAA, EA	REVISED -	•
	PLOT SCALE = \$SCALE\$	CHECKED	-	PKG, EA	REVISED -	
	PLOT DATE = \$DATE\$	DATE	-	5/10/2010	REVISED -	-

STATI	E OF	ILLINOIS
DEPARTMENT	OF	TRANSPORTATION

										- 1		
		MAST	ARM MO	UNTED		F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.		
		STRE		IGNS	2578	532B	DuPage	781	550			
(SHEET 4 OF 7)								CONTRACT	NO. 6	0477		
SHEET NO. OF SHEETS STA. TO STA.							FED. ROAD DIST, NO ILLINOIS FED. AID PROJECT					

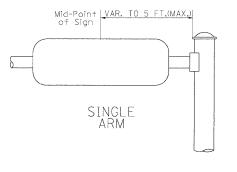


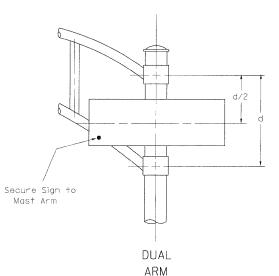




SUPPORTING CHANNELS







SIGNFIX ALUMINUM CHANNEL FRAMING SYSTEM Shall be used. See Note #5.

GENERAL NOTES

- 1. WHERE MAST ARM MOUNTED STREET NAME SIGNS ARE SPECIFIED, THE MAST ARM ASSEMBLY AND POLES SHALL BE DESIGNED TO SUPPORT THE LOADINGS CALLED FOR ON STANDARDS 877001, 877002, 877006, 877011 AND 877012. AS APPLICABLE, PLUS TWO (2) SIGN PANELS 2'-6" \times 8'-0" MOUNTED AS SHOWN. THE DESIGN SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE CURRENT "STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES, AND TRAFFIC SIGNALS" AS PUBLISHED BY THE AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS FOR 80 M.P.H. WIND VELOCITY.
- 2. ALL SIGNS SHALL HAVE A WHITE 3-W CLEARVIEW HIGHWAY FONT WITH 3M-S NEW DG3 REFLECTIVE LEGEND AND BORDER ON A GREEN 3M-S NEW DG3 REFLECTIVE BACKGROUND SHEETING.
- 3. THE SIGN LENGTH SHOULD BE INCREASED IN 6-INCH INCREMENTS, BUT THE OVERALL LENGTH SHOULD NOT EXCEED 8'-0''.
- 4. ALL BORDERS SHALL BE $\frac{3}{4}$ " WIDE AND CORNER RADIUS SHALL BE 2-1/4 ".
- 5. SIGNFIX ALUMINUM CHANNEL FRAMING SYSTEM SHALL BE USED FOR ALL SIGNS ATTACHED TO SIGNAL POLES AND POSTS. LOCAL SUPPLIERS OF THE SIGNFIX ALUMINUM CHANNEL FRAMING SYSTEM ARE:
- * A.K.T. CORPORATION
- SCHAUMBURG, IL
- * TUCKER COMPANY, INC. WAUWATOSA, WI
- * AMERICAN FABRICATION CO.
- CHICAGO HEIGHTS, IL
- * WESTERN TRAFFIC CONTROL INC. CICERO, IL

PARTS LISTING:

SIGN CHANNEL SIGN SCREWS

BRACKETS

PART #HPN053 (MED. CHANNEL)

 $1/4'' \times 14 \times 1''$ H.W.H. #3 SELF TAPPING WITH NEOPRENE WASHER

PART #HPNO34 (UNIVERSAL)

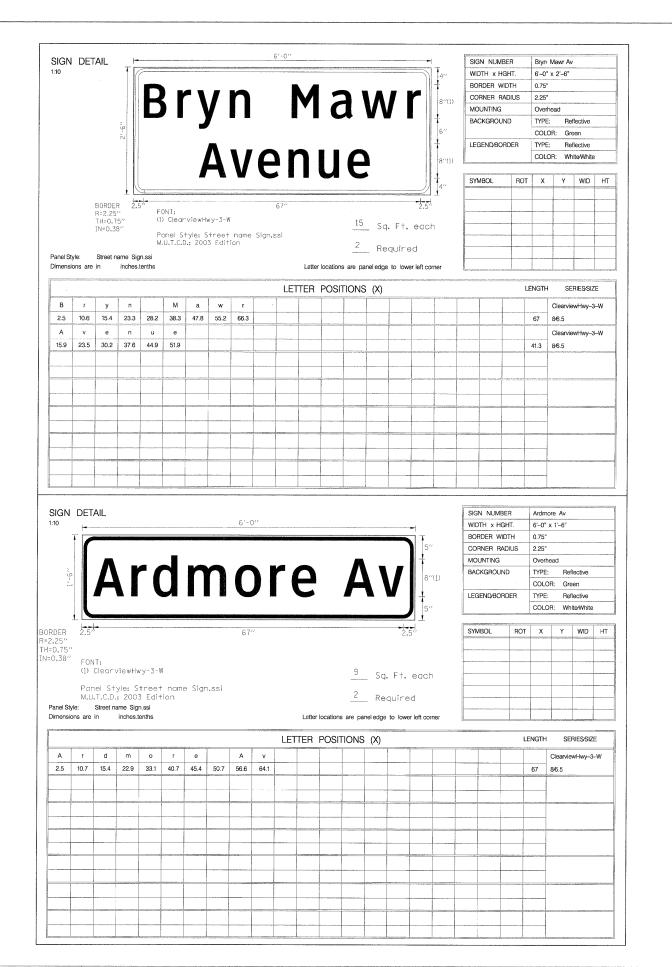
CHANNEL CLAMPS WITH STAINLESS STEEL STRAPPING

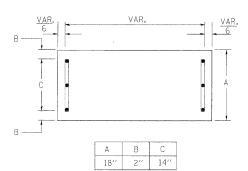
OTHER BRANDS OF MOUNTING HARDWARE ARE ACCEPTABLE, BASED UPON THE DEPARTMENT'S APPROVAL AND COMPATIBILITY WITH THE CHANNEL/BRACKET OF THE ABOVE PRODUCT.

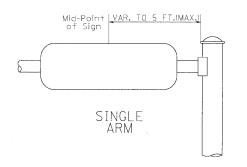
FILE NAME \$FILE \$

USER NAME = \$USER\$	DESIGNED	-	PKG	REVISED	w .
	DRAWN	~	MAA, EA	REVISED	
PLOT SCALE = \$SCALE\$	CHECKED	-	PKG, EA	REVISED	
PLOT DATE = \$DATE\$	DATE	-	5/10/2010	REVISED	_

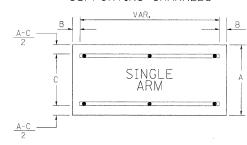
		MAST		JNTED		F.A.P. RTE.	SECTION	COUNTY	TOTAL	SHEET NO.
			ET NAME S			2578	532B	DuPage	781	551
(SHEET 5 OF 7)								CONTRACT	NO. 6	0477
SCALE: NONE	SHEET NO.	OF	. SHEETS	STA.	TO STA.	FED. ROAD D	DIST. NO ILLINOIS FED. A	ID PROJECT		



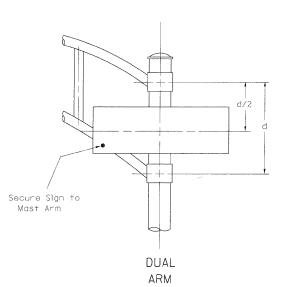




SUPPORTING CHANNELS



Α	В	С
18′′	2"	12''
30′′	2"	22"



SIGNFIX ALUMINUM CHANNEL FRAMING SYSTEM Shall be used. See Note #5.

GENERAL NOTES

- 1. WHERE MAST ARM MOUNTED STREET NAME SIGNS ARE SPECIFIED, THE MAST ARM ASSEMBLY AND POLES SHALL BE DESIGNED TO SUPPORT THE LOADINGS CALLED FOR ON STANDARDS 877001, 877002, 877006, 877011 AND 877012, AS APPLICABLE, PLUS TWO (2) SIGN PANELS 2'-6" × 8'-0" MOUNTED AS SHOWN. THE DESIGN SHALL BE IN ACCORDANCE WITH THE REOUIREMENTS OF THE CURRENT "STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES, AND TRAFFIC SIGNALS" AS PUBLISHED BY THE AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS FOR 80 M.P.H. WIND VELOCITY.
- 2. ALL SIGNS SHALL HAVE A WHITE 3-W CLEARVIEW HIGHWAY FONT WITH 3M-S NEW DG3 REFLECTIVE LEGEND AND BORDER ON A GREEN 3M-S NEW DG3 REFLECTIVE BACKGROUND SHEETING.
- 3. THE SIGN LENGTH SHOULD BE INCREASED IN 6-INCH INCREMENTS, BUT THE OVERALL LENGTH SHOULD NOT EXCEED 8'-0".
- 4. ALL BORDERS SHALL BE $\frac{3}{4}$ " WIDE AND CORNER RADIUS SHALL BE 2-1/4 ".
- 5. SIGNFIX ALUMINUM CHANNEL FRAMING SYSTEM SHALL BE USED FOR ALL SIGNS ATTACHED TO SIGNAL POLES AND POSTS. LOCAL SUPPLIERS OF THE SIGNFIX ALUMINUM CHANNEL FRAMING SYSTEM ARE:
- * A.K.T. CORPORATION
- SCHAUMBURG, IL
- * TUCKER COMPANY, INC.
 WAUWATOSA. WI
- * AMERICAN FABRICATION CO.
- CHICAGO HEIGHTS, IL
- * WESTERN TRAFFIC CONTROL INC. CICERO, IL

PARTS LISTING:

SIGN CHANNEL SIGN SCREWS PART #HPN053 (MED. CHANNEL)

1/4" × 14 × 1" H.W.H. #3

SELF TAPPING WITH NEOPRENE WASHER

BRACKETS PART #HPN034 (UNIVERSAL)

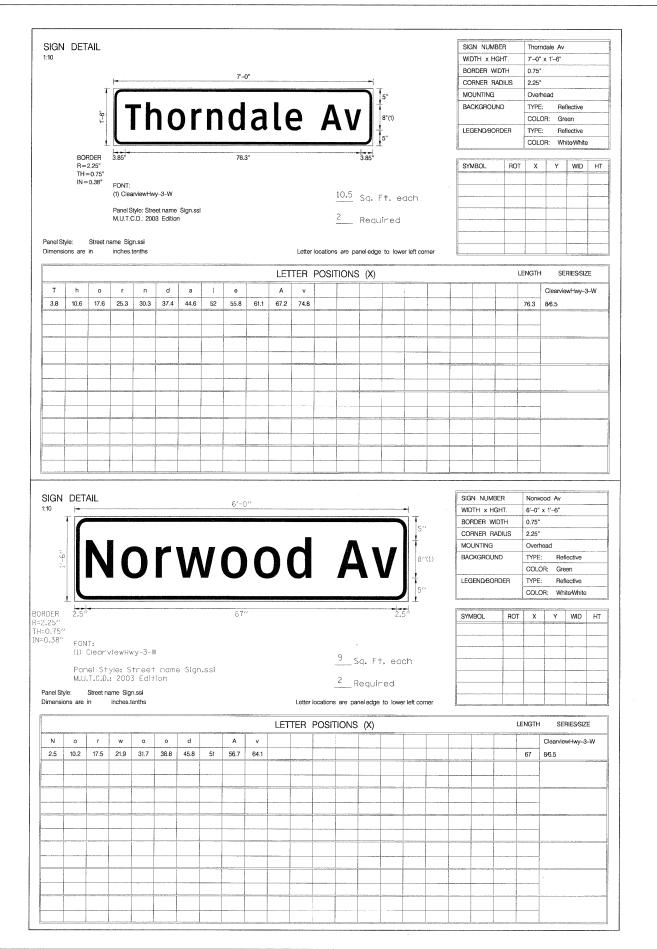
CHANNEL CLAMPS WITH STAINLESS STEEL STRAPPING

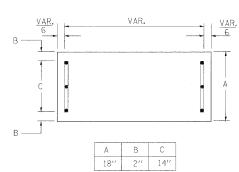
OTHER BRANDS OF MOUNTING HARDWARE ARE ACCEPTABLE, BASED UPON THE DEPARTMENT'S APPROVAL AND COMPATIBILITY WITH THE CHANNEL/BRACKET OF THE ABOVE PRODUCT.

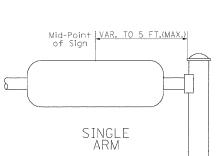
FILE NAME = \$FILEL\$

USER NAME = \$USER\$	DESIGNED	-	PKG	REVISED	-
	DRAWN	-	MAA, EA	REVISED	-
PLOT SCALE = \$SCA_E\$	CHECKED	-	PKG, EA	REVISED	=
PLOT DATE = \$DATE\$	DATE	-	5/10/2010	REVISED	_

						,				
			ARM MOU	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.		
			ET NAME S	2578	532B	DuPage	781	552		
	(SHEET 6 OF 7)							CONTRACT	NO. 6	0477
SCALE: NONE SHEET NO. OF SHEETS STA.					TO STA.	FED. RO	DAD DIST. NO ILLINOIS FED. AI	D PROJECT		

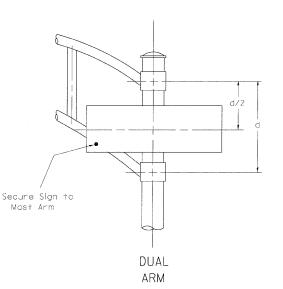






SUPPORTING CHANNELS VAR. B C SINGLE ARM





SIGNFIX ALUMINUM CHANNEL FRAMING SYSTEM Shall be used. See Note #5.

GENERAL NOTES

- 1. WHERE MAST ARM MOUNTED STREET NAME SIGNS ARE SPECIFIED, THE MAST ARM ASSEMBLY AND POLES SHALL BE DESIGNED TO SUPPORT THE LOADINGS CALLED FOR ON STANDARDS 877001, 877002, 877006, 877011 AND 877012, AS APPLICABLE, PLUS TWO (2) SIGN PANELS 2'-6" x 8'-0" MOUNTED AS SHOWN. THE DESIGN SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE CURRENT "STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES, AND TRAFFIC SIGNALS" AS PUBLISHED BY THE AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS FOR 80 M.P.H. WIND VELOCITY.
- 2, ALL SIGNS SHALL HAVE A WHITE 3-W CLEARVIEW HIGHWAY FONT WITH 3M-S NEW DG3 REFLECTIVE LEGEND AND BORDER ON A GREEN 3M-S NEW DG3 REFLECTIVE BACKGROUND SHEETING.
- 3. THE SIGN LENGTH SHOULD BE INCREASED IN 6-INCH INCREMENTS, BUT THE OVERALL LENGTH SHOULD NOT EXCEED 8'-0".
- 4. ALL BORDERS SHALL BE $\frac{3}{4}$ " WIDE AND CORNER RADIUS SHALL BE 2-1/4 ".
- 5. SIGNFIX ALUMINUM CHANNEL FRAMING SYSTEM SHALL BE USED FOR ALL SIGNS ATTACHED TO SIGNAL POLES AND POSTS. LOCAL SUPPLIERS OF THE SIGNFIX ALUMINUM CHANNEL FRAMING SYSTEM ARE:
- * A.K.T. CORPORATION

WAUWATOSA, WI

- SCHAUMBURG, IL * TUCKER COMPANY, INC.
- * AMERICAN FABRICATION CO. CHICAGO HEIGHTS, IL
- * WESTERN TRAFFIC CONTROL INC.
- CICERO, IL

PARTS LISTING:

SIGN CHANNEL SIGN SCREWS

BRACKETS

PART #HPN053 (MED. CHANNEL)

1/4" x 14 x 1" H.W.H. #3 Self tapping with neoprene washer

PART #HPN034 (UNIVERSAL)

CHANNEL CLAMPS WITH STAINLESS STEEL STRAPPING

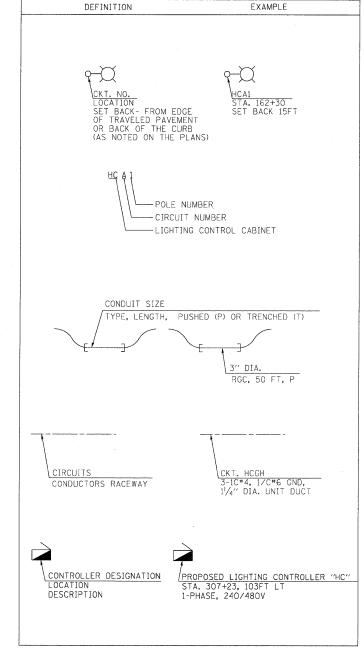
OTHER BRANDS OF MOUNTING HARDWARE ARE ACCEPTABLE, BASED UPON THE DEPARTMENT'S APPROVAL AND COMPATIBILITY WITH THE CHANNEL/BRACKET OF THE ABOVE PRODUCT.

FILE NAME = \$FILEL\$

USER NAME = \$USER\$	DESIGNED	-	PKG	REVISED	V4
	DRAWN	~	MAA, EA	REVISED	-
PLOT SCALE = \$SCALE\$	CHECKED	-	PKG, EA	REVISED	-
PLOT DATE = \$DATE\$	DATE	-	5/10/2010	REVISED	-

		MAST		F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO,			
			T NAME S	2578	532B	DuPage	781	553			
		(5)	HEET 7 OF	7)				CONTRACT	NO. 6	0477	
SCALE: NONE SHEET NO. OF SHEETS STA, TO STA.							FED. ROAD DIST. NO ILLINOIS FED. AID PROJECT				

	LEGEND (IDOT)
~ <u>\</u>	PROPOSED LIGHTING UNIT 47.5' M.H., 15' M.A., 400W, 240V HPS LUMINAIRE TRANSFORMER BASE BREAKAWAY MAINTAINED BY IDOT
○	PROPOSED COMBINATION LIGHTING UNIT 45' M.H., 15' M.A., 400W, 240V HPS LUMINAIRE MAINTAINED BY IDOT
	PROPOSED TWIN COMBINATION LIGHTING UNIT 45' M.H., TWO 15' M.A., TWO 400W, 240V HPS LUMINAIRE MAINTAINED BY IDOT
<u>~</u> ``	PROPOSED LIGHTING UNIT 47.5' M.H., 15' M.A., 400W, 240V HPS LUMINAIRE TRANSFORMER BASE BREAKAWAY MAINTAINED BY DuPage COUNTY
<u>~_</u>	PROPOSED COMBINATION LIGHTING UNIT 45' M.H., 15' M.A., 400W, 240V HPS LUMINAIRE MAINTAINED BY DUPAGE COUNTY
	PROPOSED TWIN COMBINATION LIGHTING UNIT 45' M.H., TWO 15' M.A., TWO 400W, 240V HPS LUMINAIRE MAINTAINED BY DUPOGO COUNTY
o— <u>`</u> (A)	PROPOSED LIGHTING UNIT 47.5' M.H., 15' M.A., 400W, 240V HPS LUMINAIRE TRANSFORMER BASE BREAKAWAY MAINTAINED BY THE VILLAGE OF ADDISON
o — ∑	PROPOSED LIGHTING UNIT 25' M.H., 15' M.A., 250W, 240V HPS LUMINAIRE TRANSFORMER BASE BREAKAWAY MAINTAINED BY VILLAGE OF ADDISON
<u>-</u>	TEMPORARY LIGHTING UNIT 50' M.H., 15' M.A., 400W, 240V HPS LUMINAIRE MAINTAINED BY 100T
~ <u>~</u>	TEMPORARY LIGHTING UNIT 50° M.H., 15° M.A., 400W, 240V HPS LUMINAIRE MAINTAINED BY DUPAGE COUNTY
<u>⊶</u> €	EXISTING LIGHTING UNIT TO REMAIN IN PLACE FOR TEMPORARY LIGHTING
-E	EXISTING LIGHTING UNIT TO REMAIN IN PLACE
○—	EXISTING LIGHTING UNIT TO BE REMOVED, SALVAGE (IDOT)
o—∭	EXISTING LIGHTING UNIT TO BE REMOVED, SALVAGE (DuPage COUNTY)



CALL-OUT SAMPLES

,	ADDREVIA I IUNS
SYMBOL	DESCRIPTION
AC A/C AFG CB CKT CM CNC CT CP DA DC DIA DC E ECA EM	ALTERNATING CURRENT AERIAL CABLE ABOVE FINISHED GRADE CIRCUIT BREAKER CIRCUIT CENTIMETER COLLABLE NONMETALLIC CONDUIT CURRENT TRANSFORMER CONTROL PANEL DAVIT ARM DIRECT CURRENT DIAMETER DISTRIBUTION PANEL EXISTING UNIT TO REMAIN ELECTRIC CABLE ASSEMBLY EXISTING UNIT TO BE
ER ET ETR FT FND BW OS FND CON OS FND CON OS FND MET FND PW FU GND HID JB KVA KW MA MM MH NO. " P PB PNL PVCC RGC PT R RECP RGS SEL SW SPARE SPACE SS STA T TB TMP TR	MODIFIED (e.g. NEW LUMINAIRE, BALLAST OR MAST ARM) EXISTING RELOCATED UNIT EXISTING TEMPORARY UNIT TO REMAIN EXISTING TEMPORARY RELOCATED UNIT FEET OR FOOT FOUNDATION BARRIER WALL FOUNDATION BARRIER WALL OFFSET FOUNDATION CONCRETE FOUNDATION CONCRETE FOUNDATION METAL FOUNDATION METAL FOUNDATION PARAPET WALL FUSE GROUND HIGH INTENSITY DISCHARGE JUNCTION BOX KILOVOLT-AMPERE KILOWATTS METER MAST ARM MILLIMETER MOUNTING HEIGHT NUMBER PROPOSED PUSH BUTTON PANEL PVC COATED RIGID GALVANIZED CONDUIT POTENTIAL TRANSFORMER EXISTING UNIT TO BE REMOVED AND REINSTALLED RECEPTACLE RIGID GALVANIZED CONDUIT RIGID GALVANIZED CONDUIT RIGID GALVANIZED STEEL SELECTOR SWITCH SPARE SPACE STAINLESS STEEL STATION TEMPORARY LIGHTING UNIT TRANSFORMER BASE TEMPORARY TEMPORARY UNIT TO BE REMOVED. SALVAGE EQUIPMENT AS SPECIFIED
TRR TUR UD	TEMPORARY UNIT TO BE REMOVED AND RELOCATED TEMPORARY UNIT ON UTILITY POLE TO BE REMOVED UNIT DUCT
U.N.O. WP XFMR	UNLESS NOTED OTHERWISE WOOD POLE TRANSFORMER

ABBREVIATIONS

GENERAL NOTES:

- 1. THE CONTRACTOR SHALL VERIFY ALL OF THE INFORMATION SHOWN ON THE CONTRACT DRAWINGS, WHICH WOULD AFFECT THE WORK UNDER THIS CONTRACT.
- IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO ASCERTAIN EXISTING FIELD CONDITIONS BEFORE BIDDING ON THIS PROJECT, SPECIFICALLY AS THEY RELATE TO LUMP SUM ITEMS AND UNIT PRICE ITEMS.
- ALL NEW CONDUITS, UNIT DUCTS, DIRECT BURIAL CABLES, AND APPURTENANCES ARE INDICATED DIAGRAMMATICALLY ON THE DRAWINGS. THE ACTUAL LOCATIONS IN THE FIELD SHALL MEET WITH APPROVAL OF THE ENGINEER.
- THE ELECTRICAL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE IDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND ASSOCIATED SUPPLEMENTAL
- 5. THE SCALE SHOWN ON PLAN DRAWINGS APPLIES ONLY TO THE FULL SIZE PLANS AND NOT TO REDUCED SIZE PLANS.
- 6. THE CONTRACTOR SHALL FURNISH AND INSTALL LUMINAIRE LAMPS IN ACCORDANCE WITH THE SUPPLIER'S RECOMMENDATIONS AND IN ACCORDANCE WITH THE SPECIFICATIONS. THE COST OF THIS WORK AND MATERIAL SHALL BE INCLUDED IN THE APPLICABLE LUMINAIRE PAY ITEM. SEPARATE PAYMENT WILL NOT BE MADE.
- ALL LUMINAIRES SHALL BE ORIENTED WITH THE OPTICS PERPENDICULAR TO THE ROADWAY UNLESS OTHERWISE INDICATED OR DIRECTED BY THE ENGINEER, THIS WORK SHALL BE CONSIDERED INCLUDED IN THE APPLICABLE LUMINAIRE PAY ITEMS. SEPARATE PAYMENT
- 8. CONDUITS AND UNIT DUCTS SHALL BE INSTALLED AT A MINIMUM 30" DEPTH BELOW GRADE AND POSITIONED IN THE FIELD TO AVOID CONFLICT WITH ROADWAY UNDERDRAINS AND OTHER EXISTING AND PROPOSED UTILITIES. THE CONTRACTOR SHALL INCREASE DEPTH OF UNIT DUCT AND CONDUIT AS REQUIRED AT NO ADDITIONAL COST TO THE STATE. THE CONTRACTOR SHALL COORDINATE RACEWAY DEPTH WITH THE ELECTRICAL DETAILS AND THE ENGINEER.
- 9. WHERE MULTIPLE CONDUITS ADJACENT TO EACH OTHER ARE INSTALLED IN A COMMON TRENCH, TRENCH AND BACKFILL WILL NOT BE PAID FOR EACH CONDUIT, BUT WILL BE PAID FOR THE LENGTH OF THE COMMON TRENCH ONLY.
- 10. WHERE THE CONTRACTOR'S EXCAVATION MEETS AN OBSTRUCTION, THE CONTRACTOR SHALL NOTIFY THE ENGINEER FOR DIRECTION IN WRITING PRIOR TO EXCAVATION, THE CONTRACTOR SHALL RESTORE ANY DAMAGE TO EXISTING SYSTEMS OR UTILITIES AND REMOVE EXISTING OBSTRUCTIONS AND FOUNDATIONS TO THE SATISFACTION OF THE ENGINEER. THIS WORK SHALL BE CONSIDERED INCIDENTAL TO THE APPROPRIATE PAY
- 11. BREAKAWAY DEVICE, TRANSFORMER BASE, 9", FOR 47.5' LIGHT POLES SHALL BE INSTALLED ON ALL GROUND MOUNTED POLES WITH 15" BOLT CIRCLE ON 24" DIA. FOUNDATION AS SHOWN IN THE PLANS.
- BREAKAWAY DEVICE, TRANSFORMER BASE, 9", FOR 25' LIGHT POLES SHALL BE INSTALLED ON ALL GROUND MOUNTED POLES WITH 11.5" BOLT CIRCLE ON 24" DIA. FOUNDATION AS SHOWN IN THE PLANS.

EXISTING UNIT DUCT

PROPOSED LIGHTING CONTROLLER CABINET, SINGLE DOOR, CONSOLE TYPE, MAINTAINED BY VILLAGE OF ADDISON, 100A, 240/480V, 10

RIGID GALVANIZED STEEL CONDUIT (RGC)

UNIT DUCT, AS SPECIFIED IN PLANS

AERIAL CABLE, AS SPECIFIED IN PLANS

PUSHED (P), OR TRENCHED (T)



EXISTING LIGHTING CONTROLLER CABINET

PROPOSED ELECTRIC SERVICE TRANSFORMER BY COMED ON EXISTING OR PROPOSED UTILITY WOOD POLE

ILE NAME

SFILELS

ELECTRIC GROUND ROD

SIZE AS INDICATED

GANDHIAND ASSOCIATES, INC ENGINEERS AND PLANNERS
6035 N. NORTHWEST HIGHWAY
SUITE 306
CHICAGO, ILLINOIS 60631 TEL.(773)774-5910

 USER NAME = _GAI_	DESIGNED - PKG	REVISED -	
	DRAWN - MAA, SHM	REVISED -	
PLOT SCALE = 1"=50"	CHECKED - PKG	REVISED -	
PLOT DATE = 11/24/2010	DATE -	REVISED -	

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

LIGHTING LEGEND & GENERAL NOTES ILL. RTE. 53 FROM MITCHELL CT. TO US RTE. 20 (LAKE ST.)

COUNTY TOTAL SHEE NO. SECTION 532B DuPage CONTRACT NO. 60477 FED. ROAD DIST. NO. 1 | ILLINOIS FED. AID PROJECT

2578 SCALE: NONE SHEET NO. OF SHEETS STA. TO STA.

THIS SHEET INTENTIONALLY LEFT BLANK



FILE NAME = \$FILEL\$

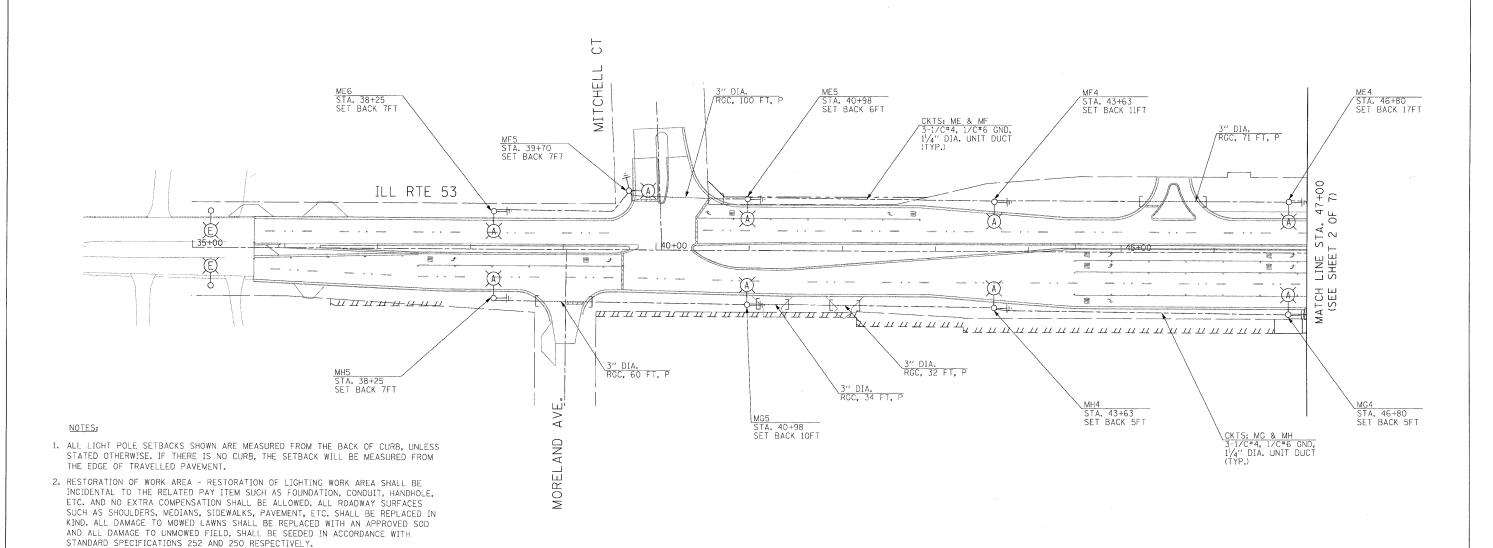
_	USER NAME = _GAI_	DESIGNED - PKG	REVISED - 08-20-04
	NONE	DRAWN - MAA, SHM	REVISED -
	PLOT SCALE = 1"=50"	CHECKED - PKG	REVISED -
	PLOT DATE = 11/24/2010	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ILL. RTE. 53	FROM	MITCHELL	СТ. ТО	US	RTE. 20	(LAKE	ST.)





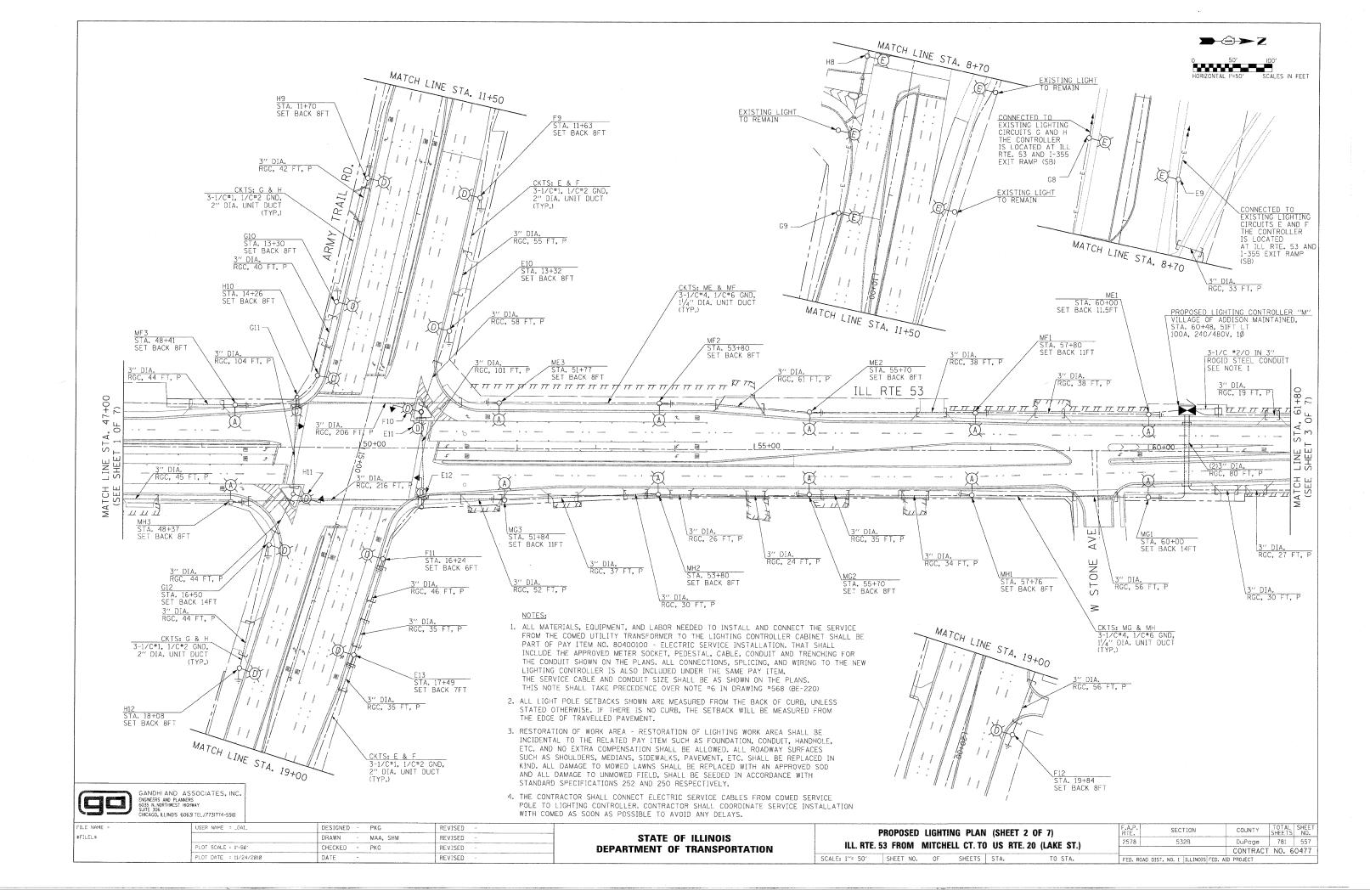


FILE NAME =	USER NAME = _GAL_	DESIGNED - PKG	REVISED -
\$FILEL\$		DRAWN - MAA, SHM	REVISED -
	PLOT SCALE = 1"=50"	CHECKED - PKG	REVISED -
	PLOT DATE = 11/24/2010	DATE -	REVISED -

3. THE CONTRACTOR SHALL CONNECT ELECTRIC SERVICE CABLES FROM COMED SERVICE POLE TO LIGHTING CONTROLLER, CONTRACTOR SHALL COORDINATE SERVICE INSTALLATION WITH COMED AS SOON AS POSSIBLE TO AVOID ANY DELAYS.

			PR	0P0	SED	LIGH	TING	PLAN	(SH	EET	1	0F	7)		
	ILL	. RTE.	53	FRO	M	MITCI	1ELL	CT. TO	US	RTE	. 2	0 ((LAKE	ST.)	
AL C.	1//-	501	-	пест	NO	O.E.		HEETS	CTA				TO C	TA	_

F.A.P. SECTION								CO	UNTY		TOTA SHEET	S	SHEET NO.		
2578	578 532B							Dul	Page		781		556		
										CON	ITRAC	Т	NO.	6	0477
FED. R	OAD	DIST.	NO.	1	Īί	LINOIS	FE	D.	AID	PROJ	ECT				

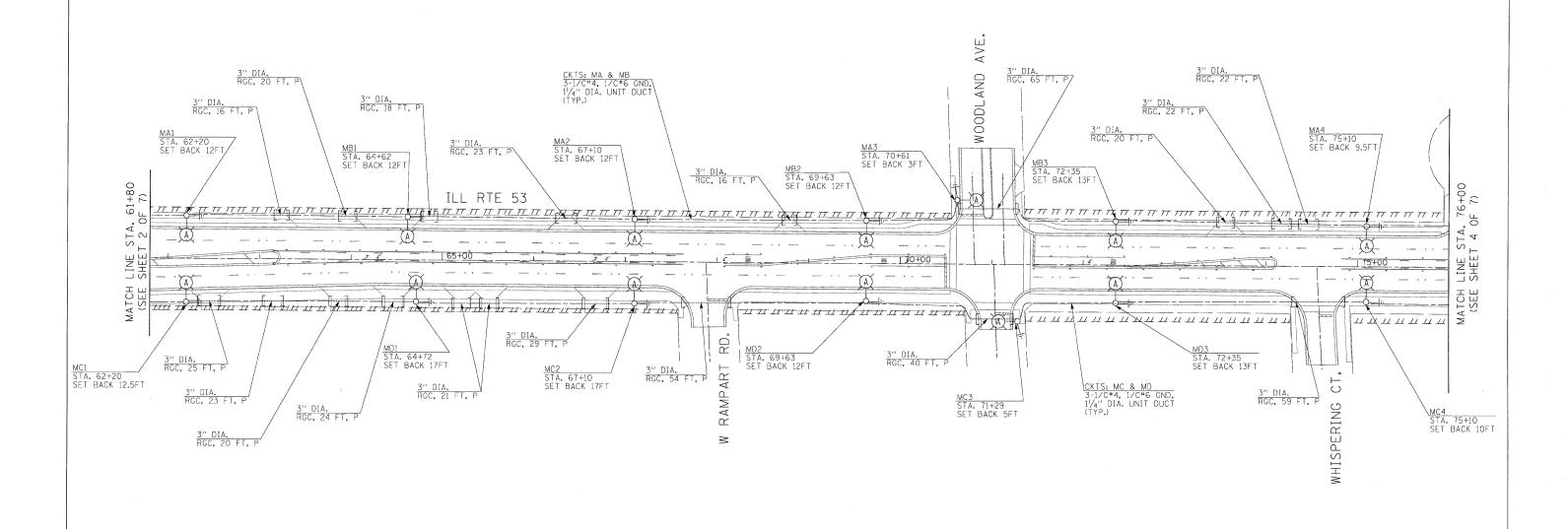


NOTES:

- ALL LIGHT POLE SETBACKS SHOWN ARE MEASURED FROM THE BACK OF CURB, UNLESS STATED OTHERWISE. IF THERE IS NO CURB, THE SETBACK WILL BE MEASURED FROM THE EDGE OF TRAVELLED PAVEMENT.
- 2. RESTORATION OF WORK AREA RESTORATION OF LIGHTING WORK AREA SHALL BE INCIDENTAL TO THE RELATED PAY ITEM SUCH AS FOUNDATION, CONDUIT, HANDHOLE, ETC. AND NO EXTRA COMPENSATION SHALL BE ALLOWED. ALL ROADWAY SURFACES SUCH AS SHOULDERS, MEDIANS, SIDEWALKS, PAVEMENT, ETC. SHALL BE REPLACED IN KIND. ALL DAMAGE TO MOWED LAWNS SHALL BE REPLACED WITH AN APPROVED SOD AND ALL DAMAGE TO UNMOWED FIELD, SHALL BE SEEDED IN ACCORDANCE WITH STANDARD SPECIFICATIONS 252 AND 250 RESPECTIVELY.
- 3. THE CONTRACTOR SHALL CONNECT ELECTRIC SERVICE CABLES FROM COMED SERVICE POLE TO LIGHTING CONTROLLER. CONTRACTOR SHALL COORDINATE SERVICE INSTALLATION WITH COMED AS SOON AS POSSIBLE TO AVOID ANY DELAYS.







	GANDHI AND AS ENGINEERS AND PLANNER 6035 N. NORTHWEST HIGH SUITE 306 CHICAGO, ILLINOIS 6063	S WAY
FILE NAME =		USER NAME = _

\$FILEL\$

USER NAME = _GAI_	DESIGNED - PKG	REVISED -	
	DRAWN - MAA, SHM	REVISED -	
PLOT SCALE = 1'=50'	CHECKED - PKG	REVISED -	
PLOT DATE = 11/24/2010	DATE -	REVISED -	

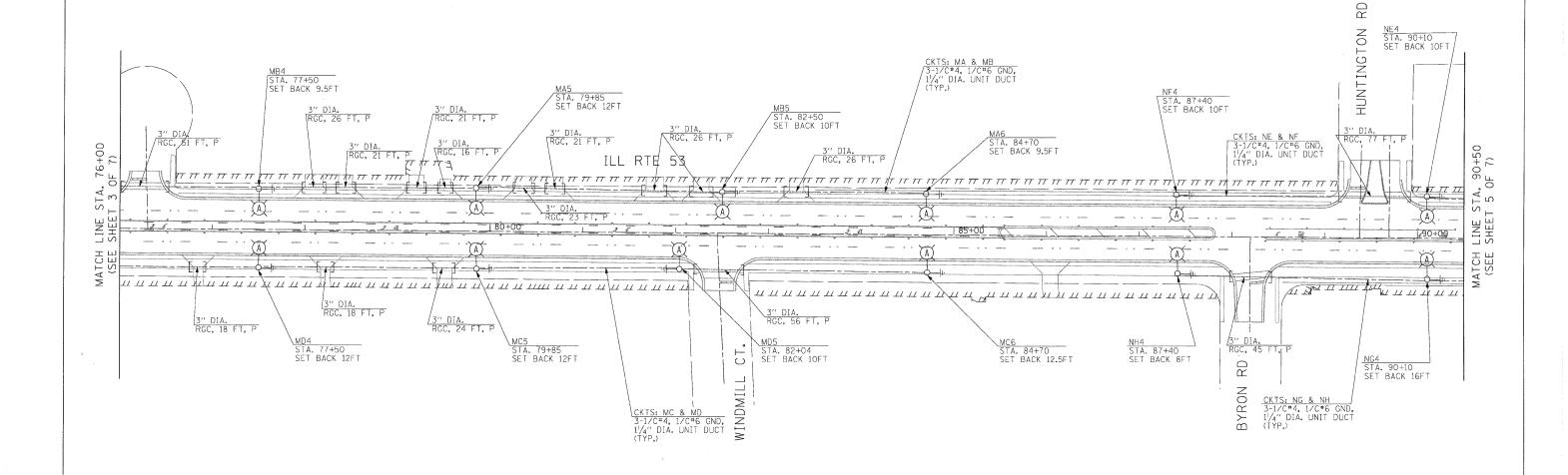
P	ROPOSED	LIGHTING	PLAN	(SHEET 3 C)F 7)
ILL. RTE. 5	3 FROM	MITCHELL	CT. TO	US RTE. 20	(LAKE ST.)
SCALE: 1"= 50'	SHEET NO.	OF S	SHEETS	STA.	TO STA.

F.A.P RTE.	F.A.P. SECTION							COUNTY	TOTAL	SHEET NO.
2578	3	532B						DuPage	781	558
								CONTRACT	NO. 6	50477
FED.	ROAD	DIST.	NO.	1	ILLINOIS	FED.	AID	PROJECT		

- ALL LIGHT POLE SETBACKS SHOWN ARE MEASURED FROM THE BACK OF CURB, UNLESS STATED OTHERWISE. IF THERE IS NO CURB, THE SETBACK WILL BE MEASURED FROM THE EDGE OF TRAVELLED PAVEMENT.
- 2. RESTORATION OF WORK AREA RESTORATION OF LIGHTING WORK AREA SHALL BE INCIDENTAL TO THE RELATED PAY ITEM SUCH AS FOUNDATION, CONDUIT, HANDHOLE, ETC. AND NO EXTRA COMPENSATION SHALL BE ALLOWED. ALL ROADWAY SURFACES SUCH AS SHOULDERS, MEDIANS, SIDEWALKS, PAVEMENT, ETC. SHALL BE REPLACED IN KIND. ALL DAMAGE TO MOWED LAWNS SHALL BE REPLACED WITH AN APPROVED SOD AND ALL DAMAGE TO UNMOWED FIELD, SHALL BE SEEDED IN ACCORDANCE WITH STANDARD SPECIFICATIONS 252 AND 250 RESPECTIVELY.
- 3. THE CONTRACTOR SHALL CONNECT ELECTRIC SERVICE CABLES FROM COMED SERVICE POLE TO LIGHTING CONTROLLER. CONTRACTOR SHALL COORDINATE SERVICE INSTALLATION WITH COMED AS SOON AS POSSIBLE TO AVOID ANY DELAYS.







ENGIN 6035 SUITE	NDHI AND ASSOCIATES, INC IEERS AND PLANNERS N. NORTHWEST HIGHWAY 3 306 460, ILLINOIS 60631 TEL.(773)774-5910
------------------------	--

LE NAME = _GAI_	DESIGNED - PKG	REVISED -	
ILEL\$	DRAWN - MAA, SHM	REVISED -	
PLOT SCALE = 1'=50'	CHECKED - PKG	REVISED -	
PLOT DATE = 11/24/2010	DATE -	REVISED -	

STATE	: OF	ILLINOIS
DEPARTMENT	OF	TRANSPORTATION

SCALE: 1

	BUBUSEU	LICHTIN	IC DIAN	(CHEE	T 4 OF 7)	F.A.P.	SECTION	COUNTY	TOTAL	SHEET NO.
					TE. 20 (LAKE ST.)	2578	532B	DuPage	781	559
ILL. NIL. J	3 I NOW	IVIII GIILI	L UI. 10	US N			CONTRACT	NO. 6	0477	
1"= 50"	SHEET NO.	OF	SHEETS	STA.	TO STA.	FED. RO	DAD DIST. NO. 1 ILLINOIS FED. A	D PROJECT		

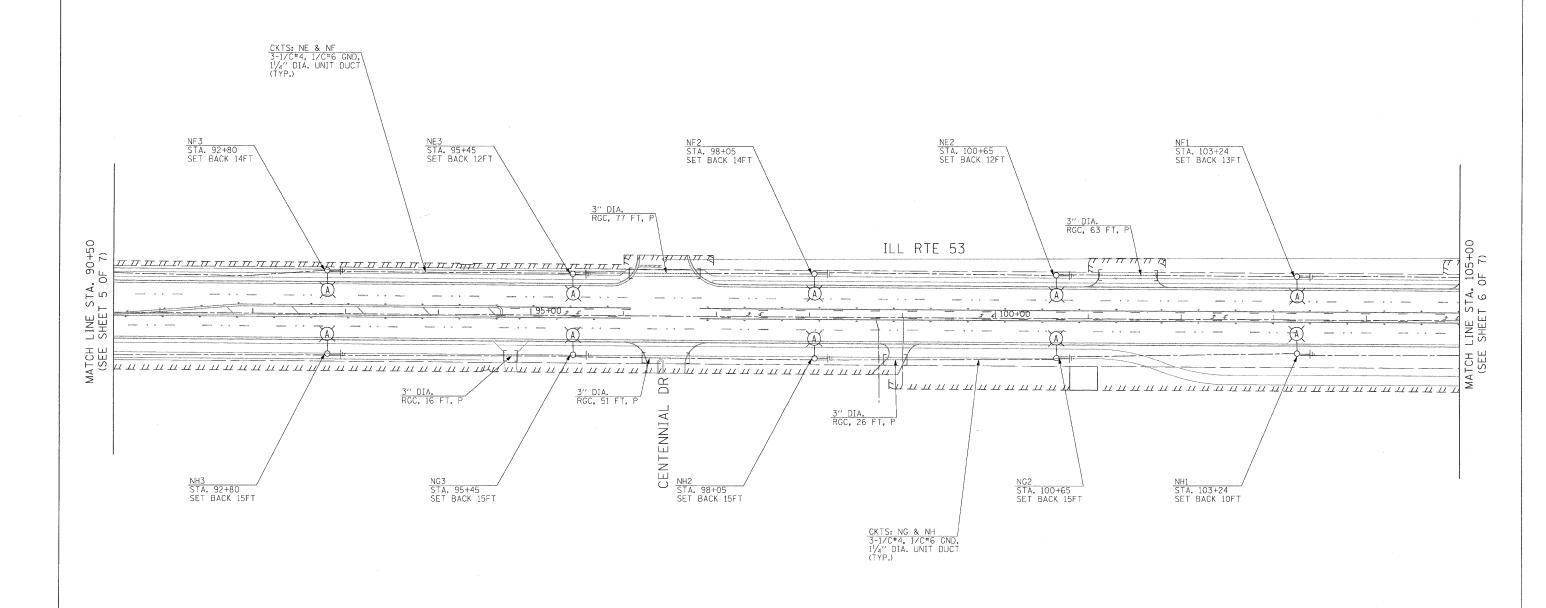
NOTES:

- 1. ALL LIGHT POLE SETBACKS SHOWN ARE MEASURED FROM THE BACK OF CURB, UNLESS STATED OTHERWISE. IF THERE IS NO CURB, THE SETBACK WILL BE MEASURED FROM THE EDGE OF TRAVELLED PAVEMENT.
- 2. RESTORATION OF WORK AREA RESTORATION OF LIGHTING WORK AREA SHALL BE INCIDENTAL TO THE RELATED PAY ITEM SUCH AS FOUNDATION, CONDUIT, HANDHOLE, ETC. AND NO EXTRA COMPENSATION SHALL BE ALLOWED. ALL ROADWAY SURFACES SUCH AS SHOULDERS, MEDIANS, SIDEWALKS, PAVEMENT, ETC. SHALL BE REPLACED IN KIND. ALL DAMAGE TO MOWED LAWNS SHALL BE REPLACED WITH AN APPROVED SOD AND ALL DAMAGE TO UNMOWED FIELD, SHALL BE SEEDED IN ACCORDANCE WITH STANDARD SPECIFICATIONS 252 AND 250 RESPECTIVELY.





0 50' 100'



	GANDHI AND AS: ENGINEERS AND PLANNERS 6035 N. NORTHWEST HIGH SUITE 306 CHICAGO, ILLINOIS 60631	, VAY
FILE NAME =		USER NAME = _

FILE NAME =	USER NAME = _GAI_	DESIGNED - PKG	REVISED -
\$FILEL\$		DRAWN - MAA, SHM	REVISED -
	PLOT SCALE = 1"=50"	CHECKED - PKG	REVISED -
	PLOT DATE = 11/24/2010	DATE -	REVISED -

STATE	OF	ILLINOIS	
DEPARTMENT	OF 1	TRANSPORTATION	

PR	OPOSED	LIGHTIN	G PLAN	(SH	EET 5 OF 7)	F.A.P. RTE.	SECTION
III DTE ES	EDOM	MITCHEL	CT TO	ile	RTE. 20 (LAKE ST.)	2578	532B
ILL. NIL. JJ	INUM	IVIII CIILL	L UI. IU	03	HIL. 20 (LANL 31.)		
SCALE: 1"= 50" S	SHEET NO.	OF	SHEETS	STA.	TO STA.	FED. F	ROAD DIST. NO. 1 ILLINOIS FE

COUNTY TOTAL SHEET NO.

DuPage 781 560

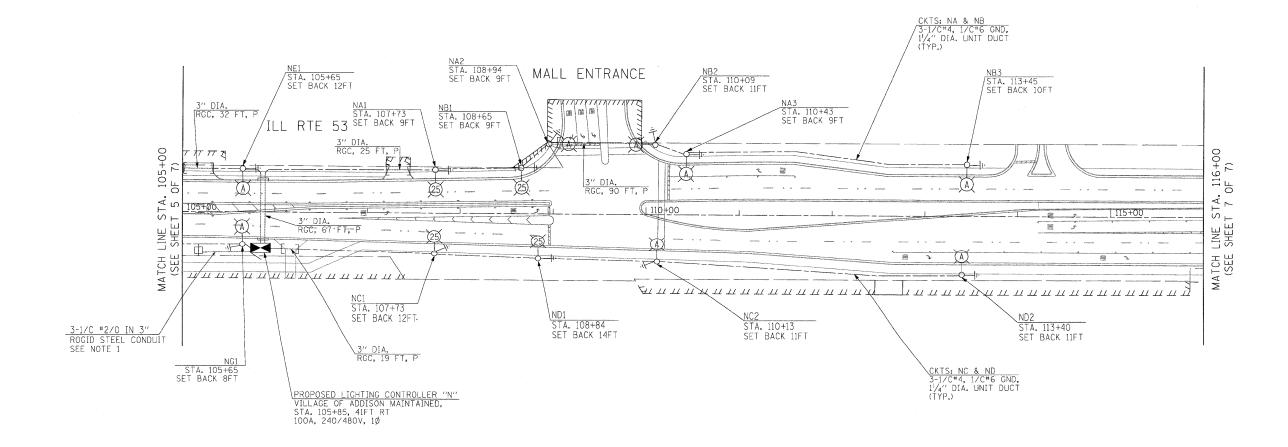
CONTRACT NO. 60477

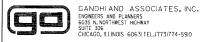
NOTES:

- 1. ALL MATERIALS, EQUIPMENT, AND LABOR NEEDED TO INSTALL AND CONNECT THE SERVICE FROM THE COMED UTILITY TRANSFORMER TO THE LIGHTING CONTROLLER CABINET SHALL BE PART OF PAY ITEM NO. 80400100 ELECTRIC SERVICE INSTALLATION. THAT SHALL INCLUDE THE APPROVED METER SOCKET, PEDESTAL, CABLE, CONDUIT AND TRENCHING FOR THE CONDUIT SHOWN ON THE PLANS. ALL CONNECTIONS, SPLICING, AND WIRING TO THE NEW LIGHTING CONTROLLER IS ALSO INCLUDED UNDER THE SAME PAY ITEM. THE SERVICE CABLE AND CONDUIT SIZE SHALL BE AS SHOWN ON THE PLANS. THIS NOTE SHALL TAKE PRECEDENCE OVER NOTE #6 IN DRAWING #568 (BE-220)
- 2. ALL LIGHT POLE SETBACKS SHOWN ARE MEASURED FROM THE BACK OF CURB, UNLESS STATED OTHERWISE. IF THERE IS NO CURB, THE SETBACK WILL BE MEASURED FROM THE EDGE OF TRAVELLED PAVEMENT.
- 3. RESTORATION OF WORK AREA RESTORATION OF LIGHTING WORK AREA SHALL BE INCIDENTAL TO THE RELATED PAY ITEM SUCH AS FOUNDATION, CONDUIT, HANDHOLE, ETC. AND NO EXTRA COMPENSATION SHALL BE ALLOWED. ALL ROADWAY SURFACES SUCH AS SHOULDERS, MEDIANS, SIDEWALKS, PAVEMENT, ETC. SHALL BE REPLACED IN KIND. ALL DAMAGE TO MOWED LAWNS SHALL BE REPLACED WITH AN APPROVED SOD AND ALL DAMAGE TO UNMOWED FIELD, SHALL BE SEEDED IN ACCORDANCE WITH STANDARD SPECIFICATIONS 252 AND 250 RESPECTIVELY.
- 4. THE CONTRACTOR SHALL CONNECT ELECTRIC SERVICE CABLES FROM COMED SERVICE POLE TO LIGHTING CONTROLLER. CONTRACTOR SHALL COORDINATE SERVICE INSTALLATION WITH COMED AS SOON AS POSSIBLE TO AVOID ANY DELAYS.







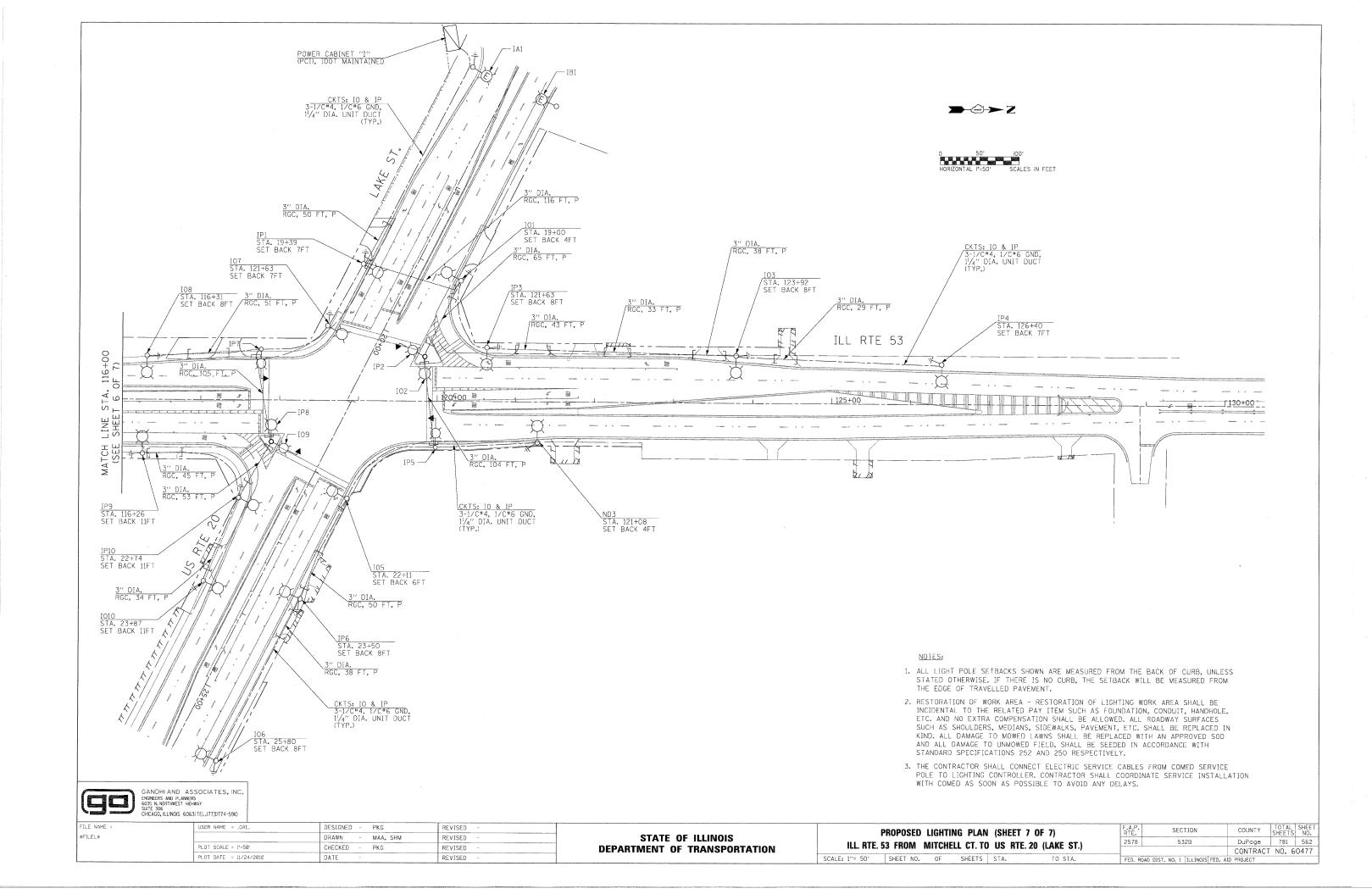


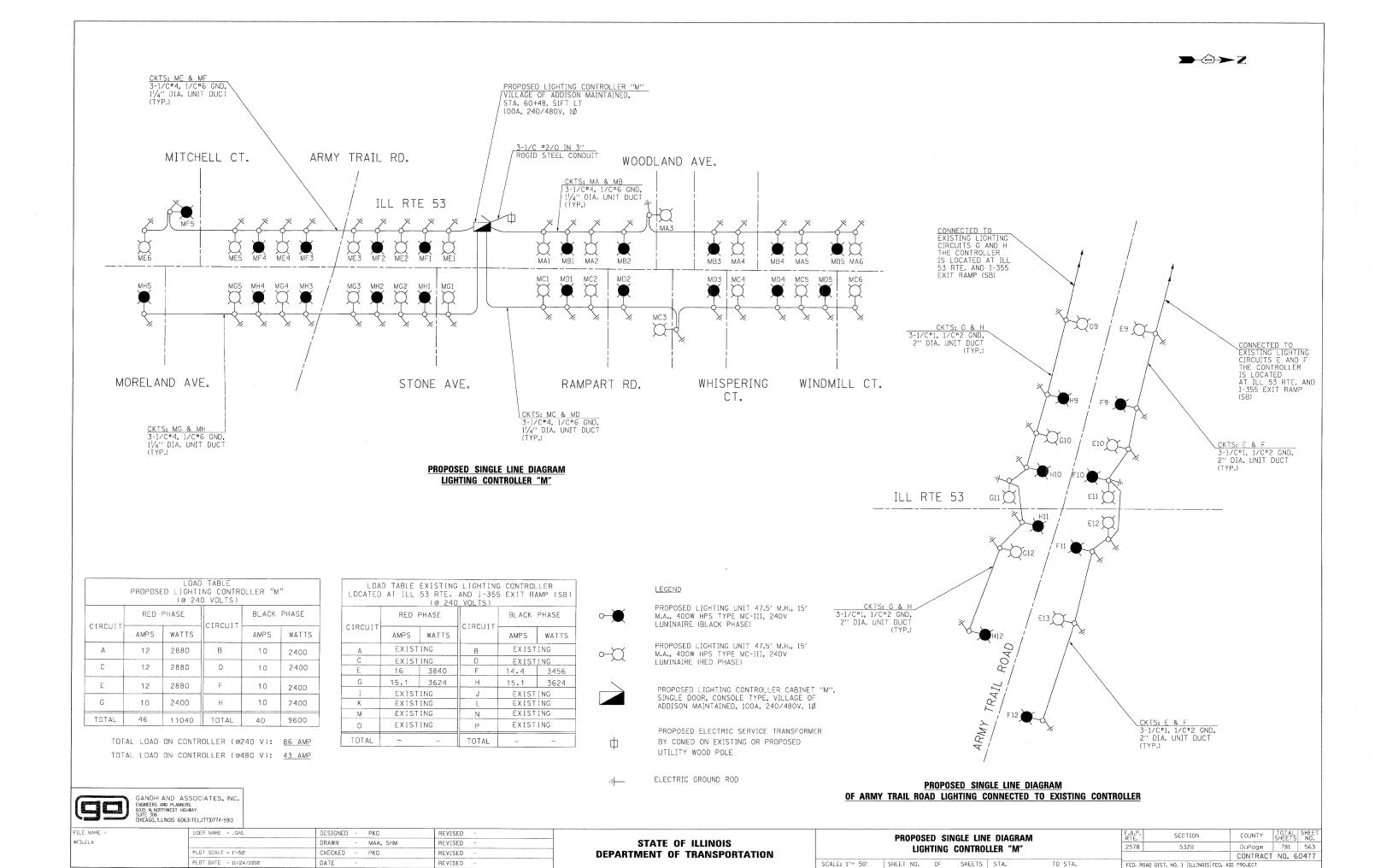
FILE NAME =	USER NAME = _GAI_	DESIGNED - PKG	REVISED -
\$FILEL\$		DRAWN - MAA, SHM	REVISED -
	PLOT SCALE = 1"=50"	CHECKED - PKG	REVISED -
	PLOT DATE = 11/24/2010	DATE -	REVISED -

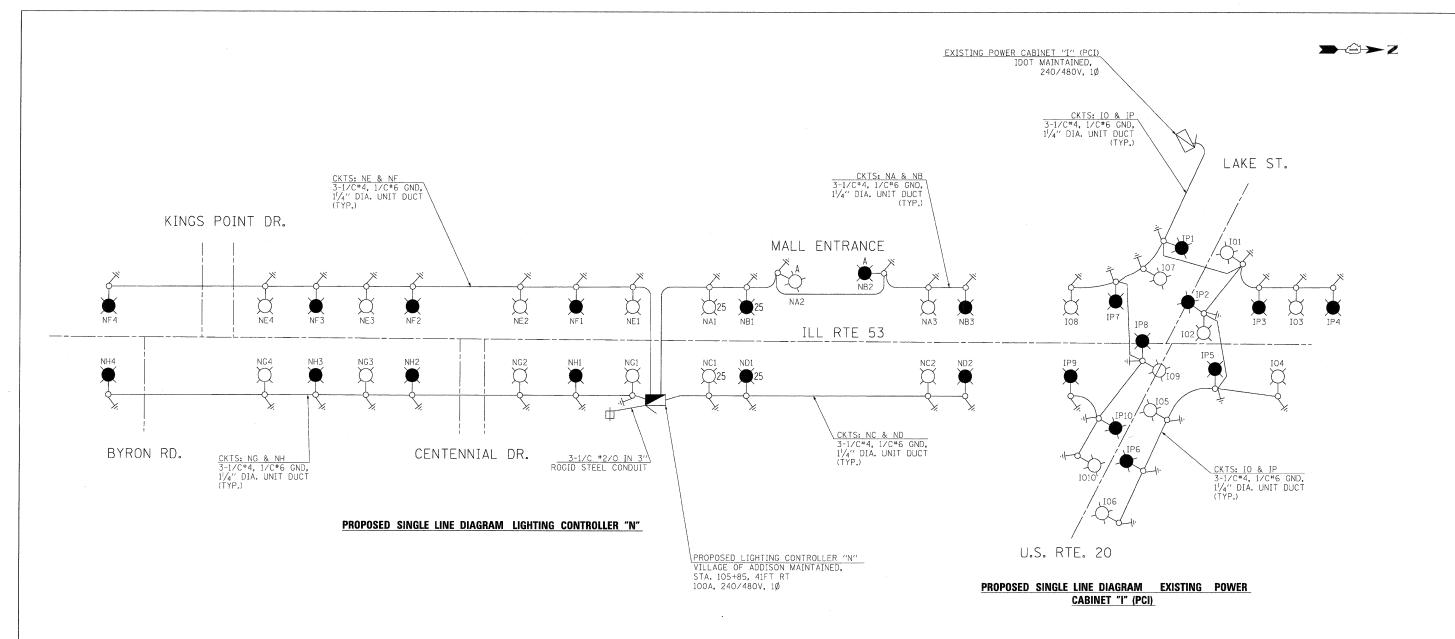
STATE	OF	ILLINOIS
DEPARTMENT	OF 1	FRANSPORTATION

SCALE:

								~~~~		
F	PROPOSED	LIGHTIN	IG PLAN	(SHEET 6 C	)F 7)	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
III DTE S	2 EDONS	MITCHE	II CT TO	US RTE. 20	(IAVE ST)	2578	532B	DuPage	781	561
ILL. DIL.	JS I RUW	IVIIICIIL	LL CI. IU	03 HIL. 20			CONTRACT	NO. 6	0477	
1''= 50'	SHEET NO	0F	SHEETS	STA	TO STA.	EED BO	AD DIST NO 1 THE INDIS EED AT	D PROJECT		







LOAD TABLE PROPOSED LIGHTING CONTROLLER "N" (@ 240 VOLTS)									
CIDOUIT	RED I	PHASE		BLACK	PHASE				
CIRCUIT	AMPS	WATTS	CIRCUIT	AMPS	WATTS				
А	4.6	1104.	В	4.6	1104				
С	3.3	792	D	3.3	792				
E	8	1920	F	8	1920				
G	8	1920	Н	8	1920				
TOTAL	23.9	5736	TOTAL	23.9	5736				

TOTAL LOAD ON CONTROLLER (@240 V): 47.8 AMP

TOTAL LOAD ON CONTROLLER (@480 V): 23.9 AMP

	EXISTIN	G POWER	) TABLE CABINET ' O VOLTS)	"I" (PCI	)
CIRCUIT	RED I	PHASE	CIRCUIT	BLACK	PHASE
CIMCUII	AMPS	WATTS	CIRCUI	AMPS	WATTS
А	EXISTING		В	EXISTING	
С	EXISTING		D	EXISTING	
E	EXIST	ING	F	EXISTING	
G	EXIST	ING	Н	EXISTING	
I	EXIST	ING	J	EXISTING	
K	EXIST	ING	L	EXISTING	
М	EXIST	ING	N	EXIST	ING
0	20	4800	Р	20	4800
TOTAL	-	-	TOTAL		_

#### LEGEND

**─●** 

PROPOSED LIGHTING UNIT 47.5' M.H., 15' M.A., 400W HPS TYPE MC-III, 240V LUMINAIRE (BLACK PHASE)

~X

PROPOSED LIGHTING UNIT 47.5' M.H., 15' M.A., 400W HPS TYPE MC-III, 240V LUMINAIRE (RED PHASE)

o— 25

PROPOSED LIGHTING UNIT 25' M.H., 15' M.A., 250W HPS TYPE MC-III, 240V LUMINAIRE (BLACK PHASE)

PROPOSED LIGHTING UNIT 25' M.H., 15' M.A., 250W HPS TYPE MC-III, 240V LUMINAIRE (RED PHASE)

PROPOSED LIGHTING CONTROLLER CABINET "M", SINGLE DOOR, CONSOLE TYPE, VILLAGE OF ADDISON MAINTAINED, 100A, 240/480V, 10

ф

PROPOSED ELECTRIC SERVICE TRANSFORMER BY COMED ON EXISTING OR PROPOSED UTILITY WOOD POLE

--- ELEC

ELECTRIC GROUND ROD

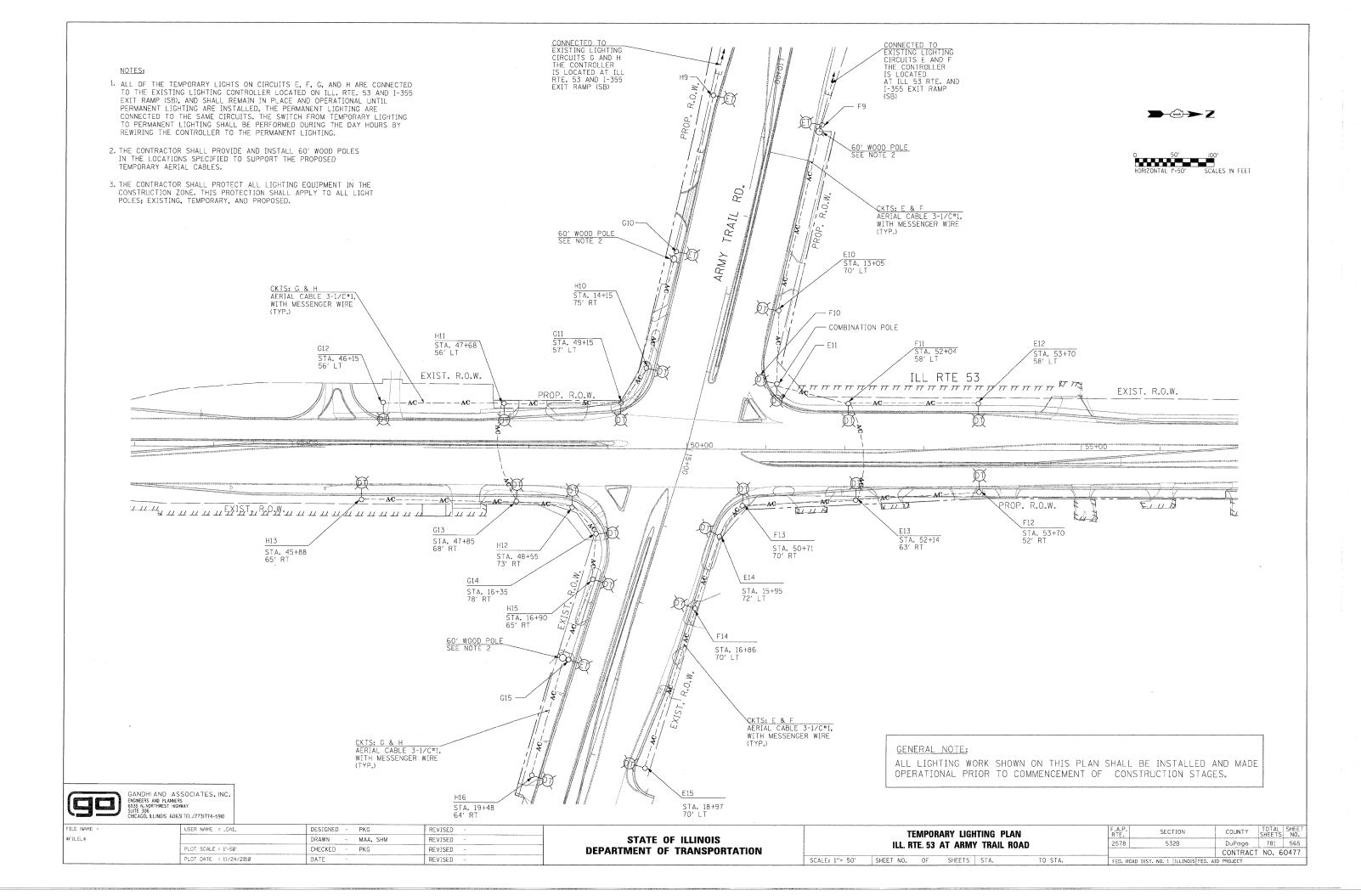
	GANDHI AND ASSOCIATES, INC. ENGINEERS AND PLANNERS 6035 N. NORTHWEST HIGHWAY SUITE 306 CHICAGO, ILLINOIS 60631 TEL.(773)774-5910
FILE NAME =	USER NAME = _GAI

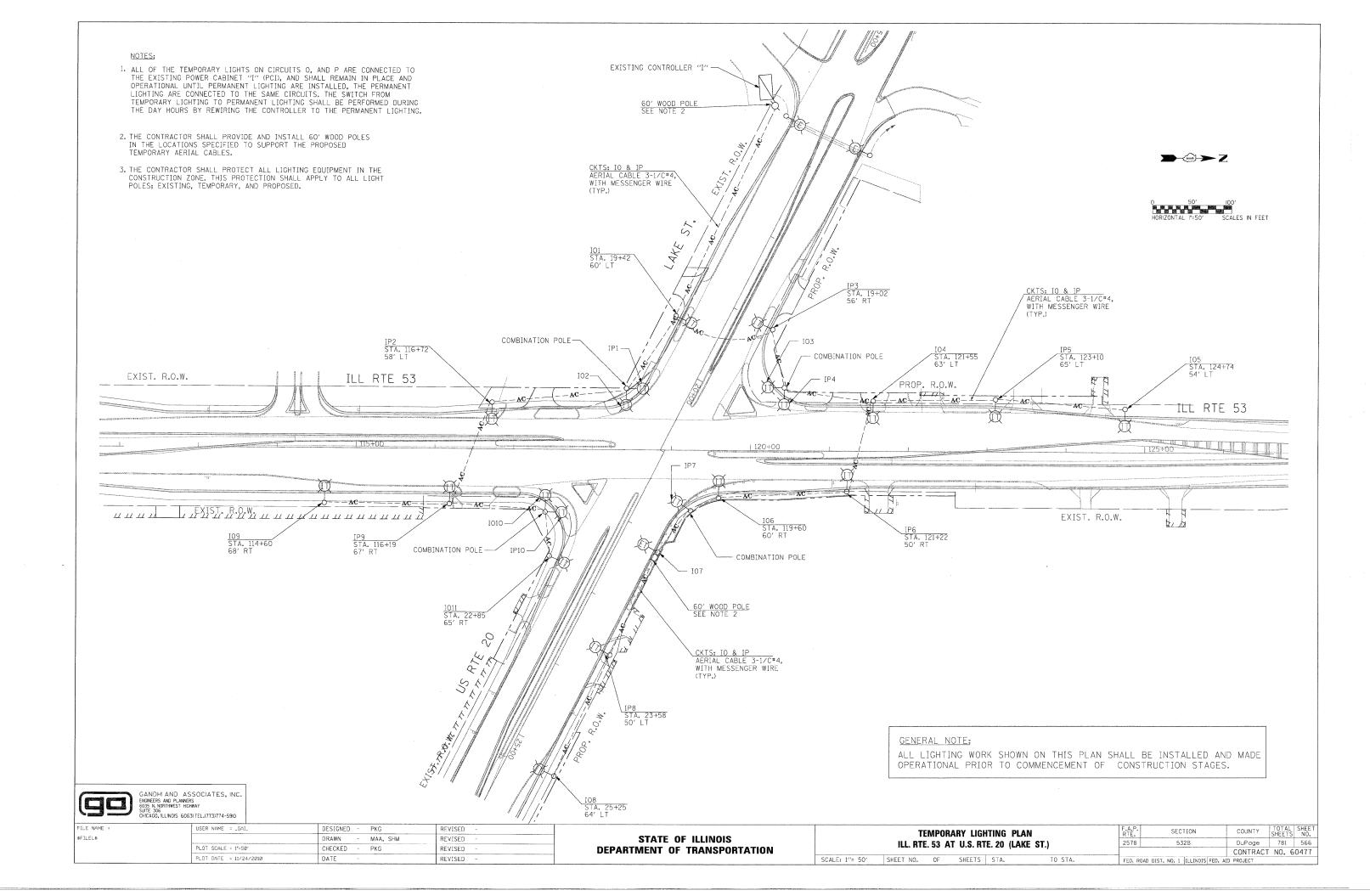
\$FILEL\$

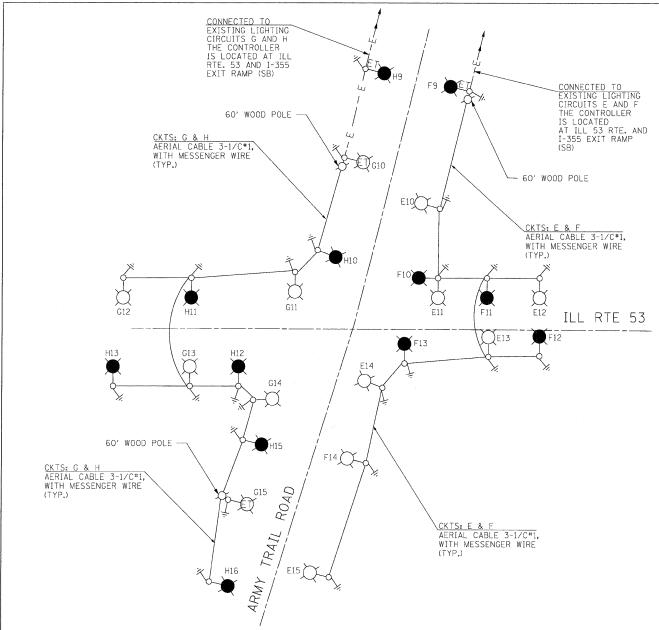
USER NAME = _GAI_	DESIGNED - PKG	REVISED -
	DRAWN - MAA, SHM	REVISED -
PLOT SCALE = 1'-50'	CHECKED - PKG	REVISED -
PLOT DATE = 11/24/2010	DATE -	REVISED ~

	PROPOSED		DIAGRAM LIGHTING POWER CABINET "		
ALE	: 1"= 50"	SHEET NO. OF	SHEETS STA.	TO STA.	

F.A.P. RTE.			SE	EC.	LION			COUNTY	TOTAL	SHEET NO.
2578				53	2B			DuPage	781	564
								CONTRACT	NO.	50477
FED. R	GAO	DIST.	NO.	1	ILLINOIS	FED.	AID	PROJECT		







TEMPORARY SINGLE LINE DIAGRAM
OF ARMY TRAIL ROAD LIGHTING CONNECTED TO EXISTING CONTROLLER

TEMPORARY LOAD TABLE EXISTING LIGHTING CONTROLLER LOCATED AT ILL 53 RTE. AND I-355 EXIT RAMP (SB)  (@ 240 VOLTS)									
CIRCUIT	RED F	PHASE	CIRCUIT	BLACK	PHASE				
CIRCUIT	AMPS	WATTS	CIRCUIT	AMPS	WATTS				
Α	EXISTING		В	EXISTING					
С	EXISTING		D	EXISTING					
E	20.4	4896	F	18.4	4416				
G	21.1	5064	Н	20.3	4872				
I	EXIST	ING	J	EXIST	ING				
K	EXIST	ING	L	EXISTING					
М	EXIST	ING	N	EXIST	ING				
0	EXIST	ING	Р	EXIST	ING				
TOTAL	_		TOTAL		-				

#### TEMPORARY LOAD TABLE EXISTING POWER CABINET "1" (PCI) (@ 240 VOLTS) RED PHASE BLACK PHASE CIRCUI AMPS WATTS AMPS WATTS EXISTING 0 21.6 5184 22 5280 TOTAL TOTAL

SCALE: 1"= 50"

## EXISTING POWER CABINET "I" (PCI) IDOT MAINTAINED, 240/480V, 1Ø - EXISTING SERVICE LAKE ST. 60' WOOD POLE CKTS: IO & IP AERIAL CABLE 3-1/C#4. WITH MESSENGER WIRE I03 I04 IP10 - 60' WOOD POLE CKTS: IO & IP AERIAL CABLE 3-1/C#4, WITH MESSENGER WIRE 108 U.S. RTE. 20

### TEMPORARY SINGLE LINE DIAGRAM EXISTING POWER CABINET "I" (PCI)

#### LEGEND

TEMPORARY LIGHTING UNIT 50' M.H., 15' M.A., 400W HPS TYPE MC-III, 240V LUMINAIRE (BLACK PHASE)

TEMPORARY LIGHTING UNIT 50' M.H., 15' M.A., 400W HPS TYPE MC-III, 240V LUMINAIRE (RED PHASE)

EXISTING LIGHTING UNIT TO REMAIN IN PLACE FOR TEMPORARY LIGHTING (RED PHASE)

EXISTING LIGHTING UNIT TO REMAIN IN PLACE FOR TEMPORARY LIGHTING (BLACK PHASE)

EXISTING LIGHTING CONTROLLER CABINET

- ELECTRIC GROUND ROD

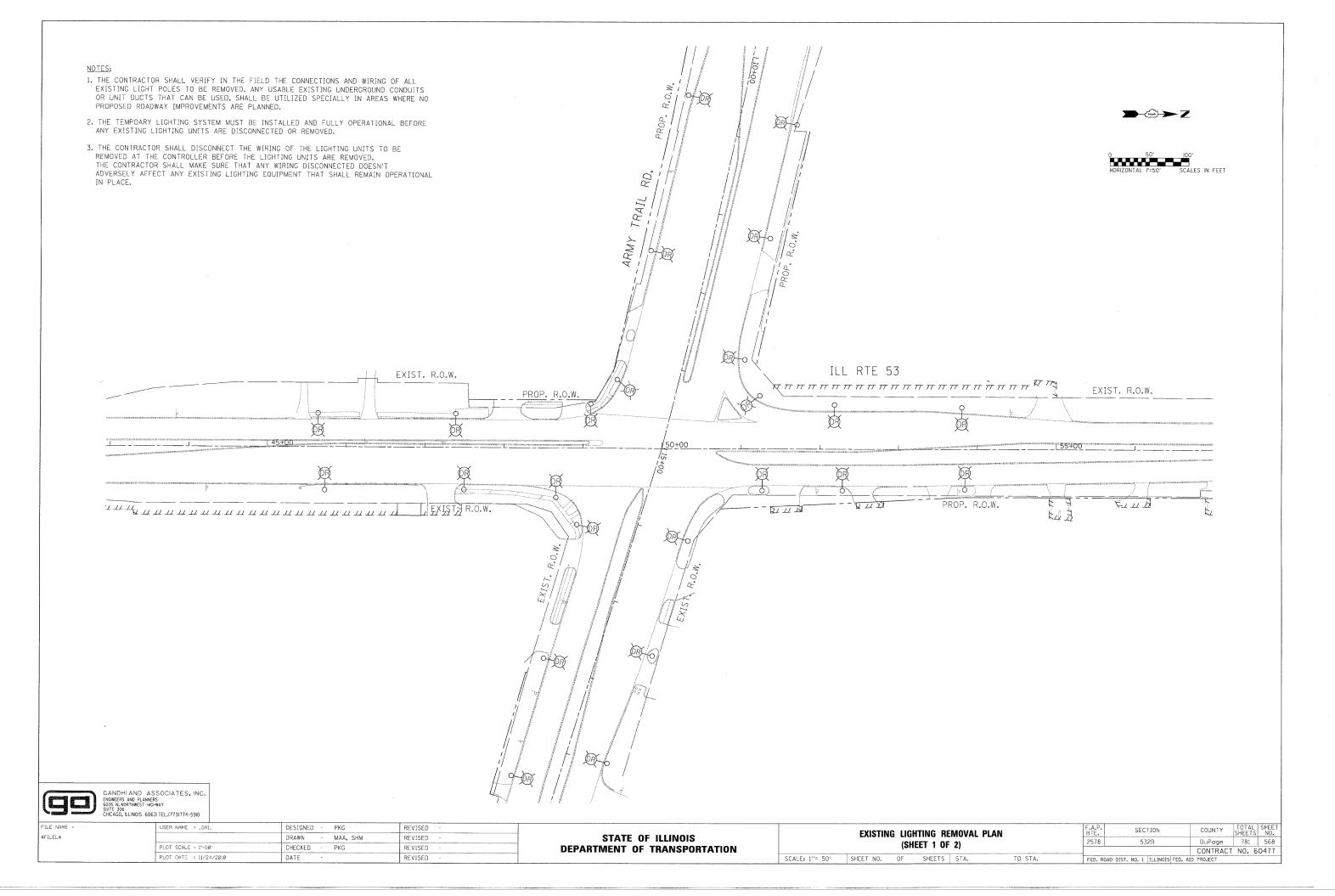
GANDHI AND ASSOCIATES, INC.
ENGAERS AND PLANNERS
SUITE 306
CHICAGO, ILLINOIS 60631 TEL.(773)774-5910

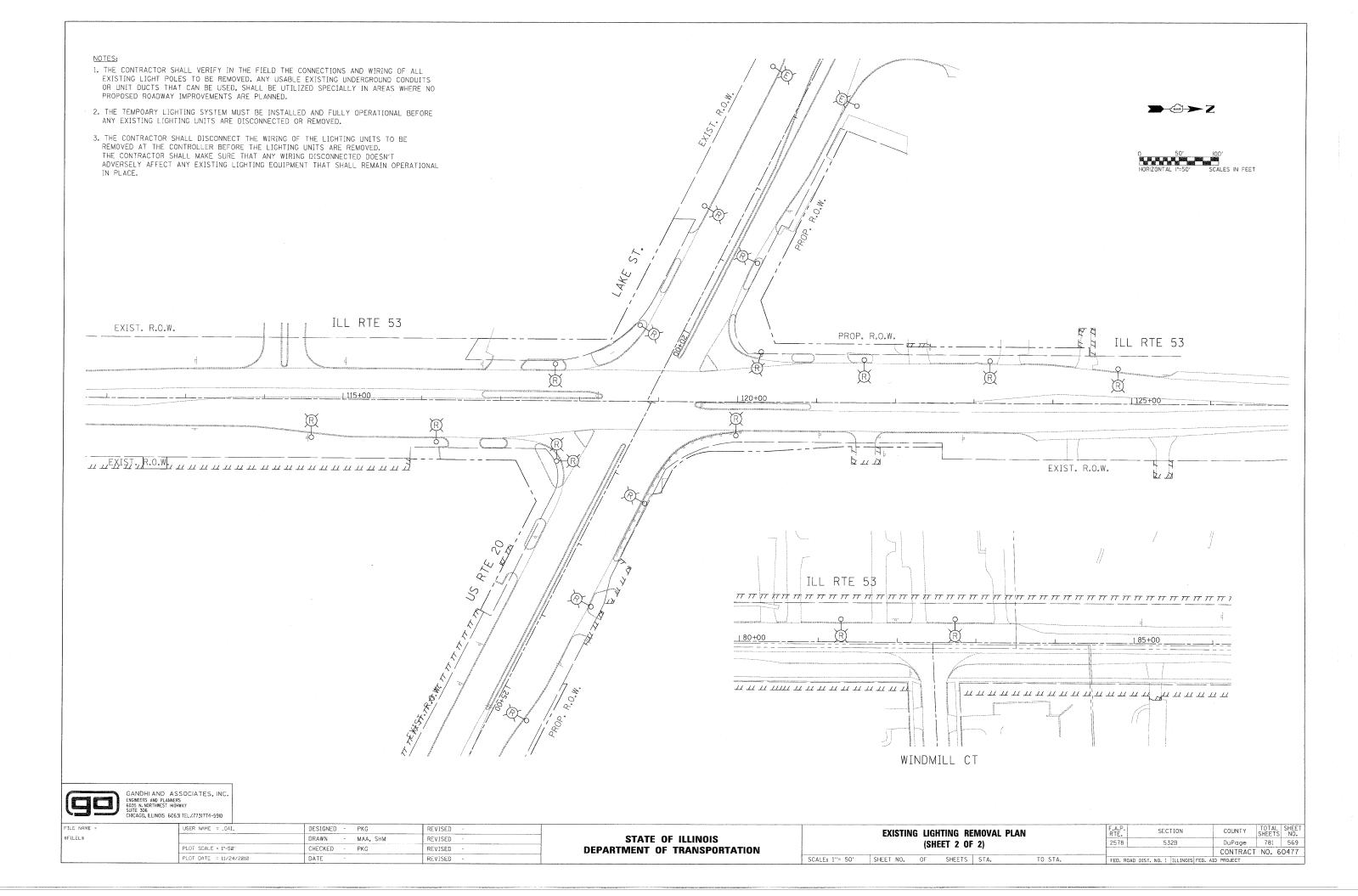
FILE NAME = USER NAME = _GG

FILE NAME =	USER NAME = _GAI_	DESIGNED		PKG	REVISED -
\$FILEL\$		DRAWN	-	MAA, SHM	REVISED -
	PLOT SCALE = 1'=50'	CHECKED	-	PKG	REVISED -
	PLOT DATE = 11/24/2010	DATE	-		REVISED -

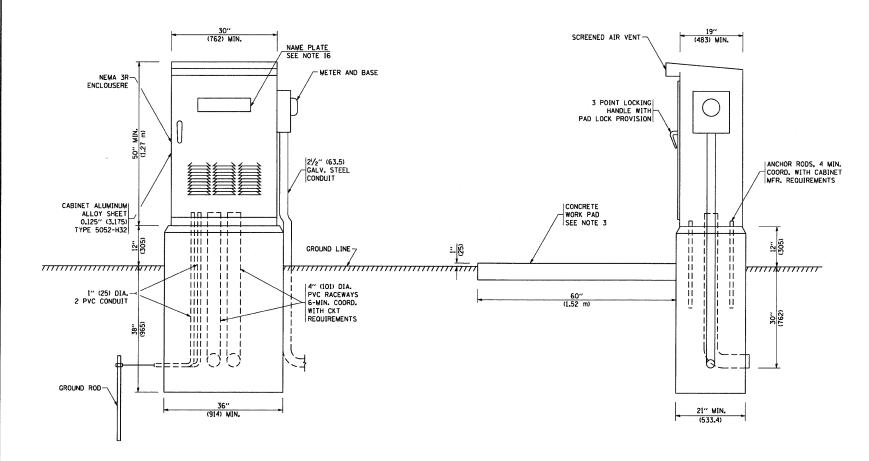
STATE	OF	ILLINOIS	
DEPARTMENT	OF	TRANSPORTATION	

TEMPORARY SINGLE LINE DIAGRAM		F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.				
TEMPORARY SINGLE LINE DIAGRAM				2578	532B	DuPage	781	567		
							CONTRACT	NO. 6	0477	
HEET NO.	0F	SHEETS	STA.	TO STA.	FED. RO	DAD DIST, NO. 1 ILLINOIS FED. A	ID PROJECT			1





#### CIRCUIT BREAKER - MAIN BREAKER **(** 0 TWO POSITION TOGGLE SWITCH $^{\otimes}$ TOGGLE SWITCH MOMENTARY CONTACT TYPE SPDT 20 A. 240V AC AND TOGGLE SWITCH 自自 (3) 1/4" (6.35) MINIMUM (C) NON-ASBESTOS INORGANIC NONCONDUCTING MATERIAL MOUNTING PANEL. CONTROL RELAY (IF NECESSARY) ---CABINET ENCLOSURE -3-1/C SERVICE ENTRANCE CABLE FROM ELECTRIC BONDING JUMPER ---UTILITY METER BOX *6 AWG. 600V 240/480 VOLT, 1Ø,3 GROUND ROD 5/8" (15.875) WIRES, 60 CYCLES. DIA. x 10' (3.048 m) LONG - GROUNDING CONDUCTOR #2 AWG. PANEL WIRING DIAGRAM



#### PANEL EQUIPMENT

		BILL OF MATERIAL
ITEM	QUANTITY	DESCRIPTION
Α	1	MAIN CIRCUIT BREAKER, 2 POLE, 600 VOLT 100 AMP. FRAME, 100 AMP. NON-INTERCHANGEABLE TRIP INTERRUPTING RATING NEMA-22000 AMP. AT 480 VOLT.
В	1	REMOTE CONTROL SWITCH, ELECTRICALLY OPERATED, MECHANICALLY HELD, 2 POLE, SINGLE THROW, 100 AMP., 600 VOLTS CONTROL CIRCUIT 240 VOLT.
С	8	CIRCUIT BREAKERS, 1 POLE, 100AMP, FRAME, 50 AMP, NON-INTERCHANGEABLE TRIP INTERRUPTING RATING NEMA-10,000 AMP, AT 240 V.
D	2	CONTROL CIRCUIT-CIRCUIT BREAKER. 1 POLE, 240 V., 100 AMP. FRAME, 15 AMP. NON-INTERCHANGEABLE TRIP INTERRUPTING RATING NEMA-5000 AMP. AT 240 V.
Ε	1	ASTRONOMIC MICROPROCESSOR-BASED 2-CHANNEL CONTROLLER [TIME SWITCH].
F	1	20 A., 120 V. FUSE.
G	1	1.5 KVA, SINGLE PHASE, ENCAPSULATED TRANSFORMER 240 X 480 / 120 X 240 VOLT, 60 Hz.
Н	1	SPST 20A SWITCH ON DOOR, TO TURN LIGHT ON WHEN DOOR IS OPEN,
I	1	INCANDESCENT LIGHTING FIXTURE ENCLOSED AND GASKETED WITH 60 WATT, 120 V. LAMP.
J	1	20 A., 120 V., DUPLEX RECEPTACLE, GFCI.
К	1	COPPER GROUND BUS $\frac{1}{4}$ " (6.35) X 1" (25.4) X 12" (304.8 mm) LONG MOUNTED ON PANEL WITH LUGS AND 4 SPARE LUGS
L	1	TOGGLE SWITCHES MOUNTED IN 4" (101.6) X 4" (101.6 mm) BOX
М	1	COPPER GROUND BUS $^{1}\!\!/_4$ " (6.35) X 1" (25.4) X 12" (304.8 mm) LONG MOUNTED ON PANEL WITH LUGS AND SPARE LUGS

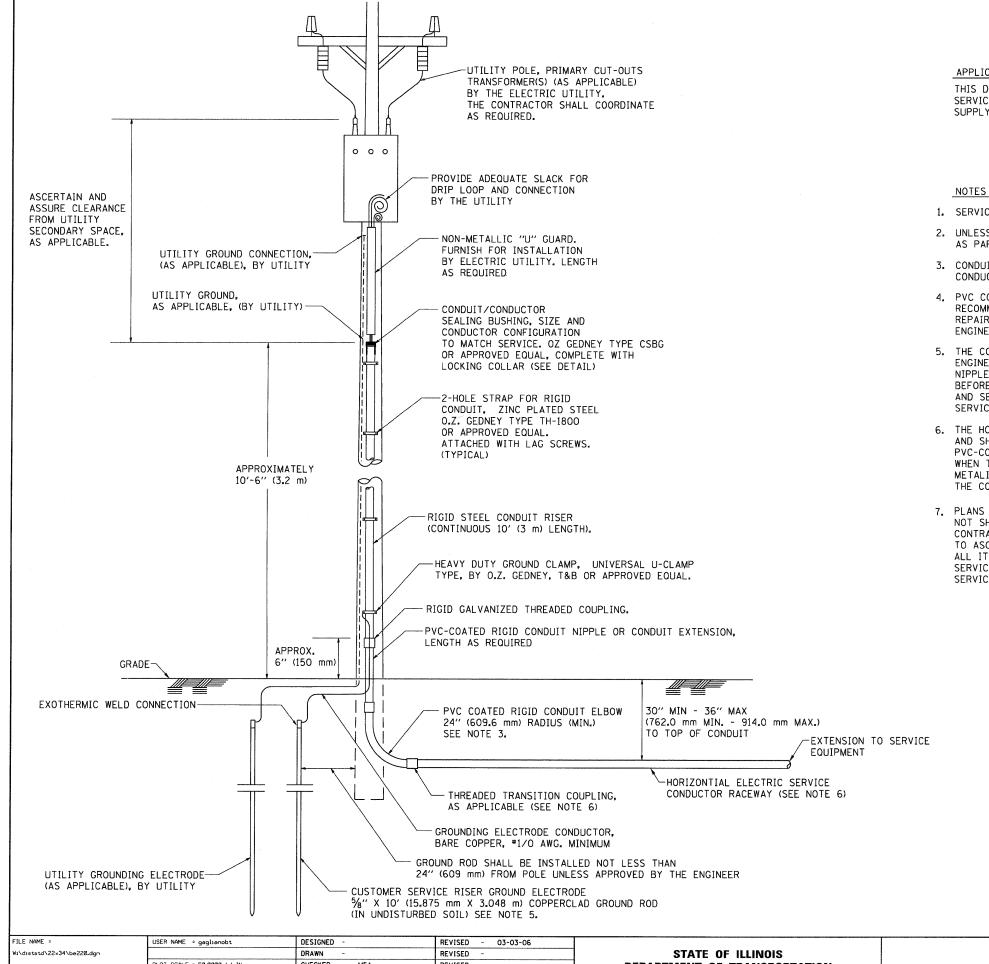
- 1. ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.
- 2. FOUNDATION SIZE SHALL BE COORDINATED WITH CABINET SIZE AND MFR.
- 3. IN FRONT OF CONTROL CABINET DOOR, REMOVE VEGETATION AND 2" (50.8 mm) TOP SOIL, LEVEL THE

  12. ALL WIRING WITHIN THE CABINET SHALL BE TO CONTROL CABINET, A CONCRETE PAD 36" (914.4 mm) x 60" (18.288 m) x 4" (101 mm) MIN. SIZE. THE COST OF LABOR AND MATERIALS ARE INCLUDED IN THE COST OF THE CONTROLLER.
- 4. DOOR SHALL BE CONSTRUCTED FROM SAME TYPE OF MATERIAL AND THICKNESS AS CABINET.
- 5. DOOR SHALL BE EQUIPPED WITH THREE POINT LATCHING MECHANISM WITH NYLON ROLLERS AT TOP THE BOTTOM.
- 6. DOOR HINGE SHALL BE A HEAVY GAUGE CONTINUOUS HINGE WITH A 1/4" (6.35 mm)
  DIA. STAINLESS STEEL HINGE PIN.
- 7. ALL EXTERNAL HARDWARE SHALL BE STAINLESS STEEL.
- 8. CONTROL WIRING TO BE #12 AWG, 600V, TYPE "SIS" GRAY SWITCH BOARD WIRE, STRANDED
- 9. METER BOX SHALL BE MOUNTED ON THE SIDE OF CONTROL CABINET, NEAR TO THE SERVICE POLE.

- 10. CABINETS SHALL BE PRIMED AND PAINTED AS SPECIFIED.
- 11. THE HEADS OF CONNECTORS SCREWS SHALL BE PAINTED WHITE FOR NEUTRAL BAR CONNECTION AND GREEN FOR GROUND
- COLOR CODED AS INDICATED. R = RED BL = BLUE W = WHITE Y = YELLOW B = BLACK G = GREEN
- 13. PROVIDE SEALING GROMMETS FOR ALL OPEN WIRING EXTENDED FROM DEVICES IN BOXES OR CABINETS WITHIN THE CONTROL CABINET.
- 14. ALL WIRING SHALL BE NEATLY DRESSED AND
- 15. THE CONTROLLER SHALL BE CONSTRUCTED TO U.L. STD. 508 AND BEAR THE U.L. LABEL "ENCLOSED INDUSTRIAL CONTROL PANEL".
- 16. 12" (304.8) X 16" (406.4 mm) STAINLESS STEEL EXTERIOR NAMEPLATE SHALL BE ENGRAVED TO "STATE OF ILLINOIS LIGHTING CONTROLS" UNLESS OTHERWISE SPECIFIED.

FILE NAME =	USER NAME = gaglianobt	DESIGNED -	REVISED - 08-20-04
W:\diststd\22x34\be215.dgn		DRAWN -	REVISED -
	PLOT SCALE = 50.0000 '/ IN.	CHECKED -	REVISED -
	PLOT DATE = 1/4/2008	DATE -	REVISED -

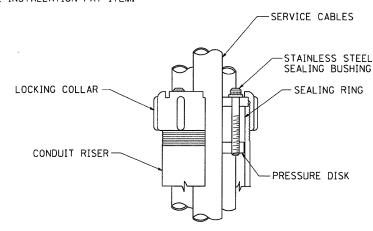
-		LIGHTII	NG CONTR	OLLER		F.A RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		ei.	NGLE DOO	D					781	570
ì	SINGLE DOOR						BE-215	CONTRACT	NO.	
ı	SCALE: NONE	SHEET NO. 1 OF 1	SHEETS	STA.	TO STA.	FED. RO	DAD DIST. NO. 1   ILLINOIS FED. A	ID PROJECT		



#### APPLICATION

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

- 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 SERVICE CONNECTION.
- 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

FILE NAME =	USER NAME = gaglianobt	DESIGNED -	REVISED - 03-03-06
Ws\diststd\22x34\be220.dgn		DRAWN -	REVISED -
	PLOT SCALE = 50.0000 '/ IN.	CHECKED - MEA	REVISED -
	PLOT DATE = 1/4/2008	DATE -	REVISED -

**DEPARTMENT OF TRANSPORTATION** 

	ELECTRIC SERVICE INSTALLATION AERIAL REMOTE DISCONNECT					SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
								781	571
ALRIAL, REMOTE DISCURNECT						BE-220	CONTRACT	NO.	
SCALE: NONE	SHEET NO. 1 OF 1	SHEETS	STA.	TO STA.	FED. R	DAD DIST. NO. 1   ILLINOIS FED. AI	D PROJECT		

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

SOIL CONDITIONS	DESIGN DEPTH "D" 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	9'-0''	14'-10''			
Qu = 0.75 TON/SQ.FT	(2,74 m)	(4 <b>.</b> 52 m)			
STIFF CLAY	7'-6''	8'-7''			
Qu = 1.50 TON/SQ. FT.	(2.29 m)	(2.61 m)			
LOOSE SAND	9'-6"	10'-7"			
Ø = 34°	(2.90 m)	(3.22 m)			
MEDIUM SAND	9'-0''	9'-10"			
Ø = 37.5°	(2.74 m)	(2.99 m)			
DENSE SAND	8'-3''	9'-7"			
Ø = 40°	(2,51 m)	(2.91 m)			

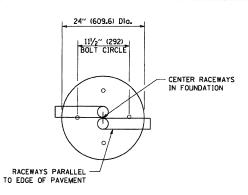
6" (152.4) THREADED

%" T. X 4" DIA.— WASHER, TACK WELDED

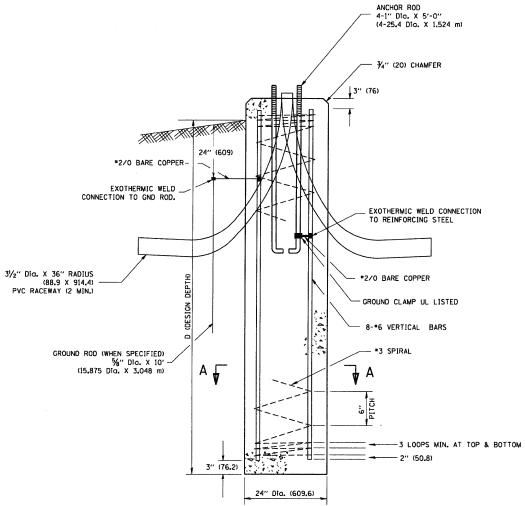
DIA.

5" (127.0)

ANCHOR BOLT DETAIL



#### TOP VIEW



#### **NOTES**

- 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.
- THE FOUNDATION SHALL NOT PROTRUDE MORE 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 AASHTO GUIDELINES. IF THE FOUNDATION HEIGHT, INCLUDING ANCHOR RODS, EXTENDS BEYOND THESE SPECIFIED LIMITS, THE FOUNDATION SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE. SEE FOUNDATION EXTENSION DETAIL.
- 4. THE HOLE FOR THE FOUNDATION SHALL BE MADE BY DRILLING WITH AN AUGER, OF THE SAME DIAMETER AS THE FOUNDATION. IF SOIL CONDITIONS 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 3/4-IN. (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 NUTS ACCORDING TO ASTM A 194 2H OR ASTM A 563 DH, AND WASHERS SHALL BE
- 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 MINIMUM OF 3 INCHES (75 mm) OF THREADED ANCHOR ROD EMBEDDED IN THE FOUNDATION.
- ANCHOR RODS SHALL PROJECT 23/4" (69.9 mm) ABOVE THE TOP OF THE FOUNDATION. IF BREAKAWAY COUPLINGS ARE SPECIFIED, THE CONTRACTOR SHALL CAREFULLY COORDINATE THE ANCHOR ROD PROJECTION WITH THE INSTALLATION REQUIREMENTS OF THE BREAKAWAY COUPLINGS.
- 12. THE CONTRACTOR SHALL USE A *3 SPIRAL AT 6" (152.4 mm) PITCH OR MAY SUBSTITUTE *3 TIES AT 12" (304.8 mm) O.C. WITH THE APPROVAL OF THE ENGINEER.
- 13. THE CABLE TRENCHES AND FOUNDATION SHALL BE BACK FILLED AND COMPACTED AS SPECIFIED BEFORE THE LIGHT POLE IS ERECTED.
- 14. THE RACEWAYS SHALL PROJECT 1" (25.4 mm) ABOVE THE TOP OF THE FOUNDATION.

#### FOUNDATION DETAIL



GROUND LINE

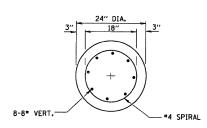


FOUNDATION EXTENSION DETAIL

60" (1500)

TOP OF ANCHOR ROD

- 4" (100) MAX.



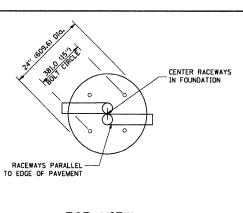
SECTION A-A

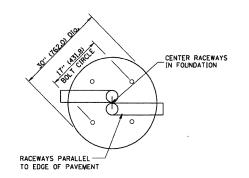
FILE NAME = USER NAME = gagl:anobt DESIGNED REVISED W:\diststd\22×34\be300.dgn DRAWN REVISED CHECKED PLOT SCALE = 50.0000 '/ IN. REVISED PLOT DATE = 1/4/2008 DATE REVISED

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION** 

LIGHT POLE FOUNDATION 30' (9.144 m) TO 35' (10.668 m) M.H. 11 1/2" (292 mm) BOLT CIRCLE SHEET NO. 1 OF 1 SHEETS STA.

COUNTY TOTAL SHEETS NO. SECTION CONTRACT NO. BE-300 FED. ROAD DIST. NO. 1 | ILLINOIS FED. AID PROJECT





TOP VIEW

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

TOP VIEW

#### (4,57 m) Qu = 0.375 TON/SQ. FT (3.96 m) (3,23 m) Qu = 0.75 TON/SQ.FT (2.09 m) Qu = 1.50 TON/SQ. FT. (2.13 m) (2.44 m) LOOSE SAND (2.74 m) (3,05 m) MEDIUM SAND 9'-0" Ø = 37.5° (2.52 m) (2,74 m) DENSE SAND 9'-0" (2,74 m)

SOIL CONDITIONS

6" (152.4)

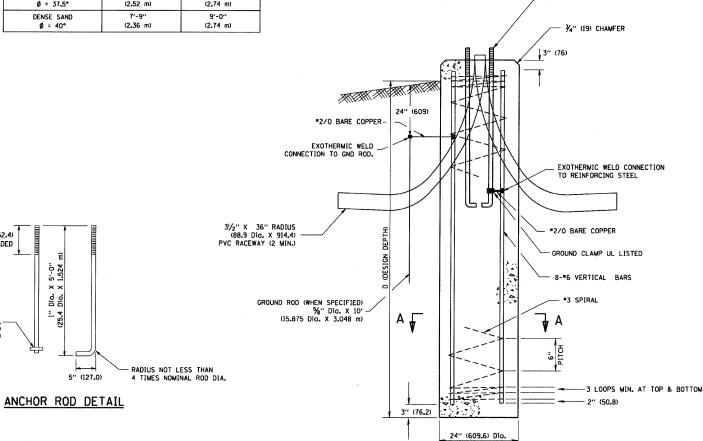
THREADED

FILE NAME =

/:\diststd\22x34\be301.dgn

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

DESIGN DEPTH "D" OF FOUNDATION



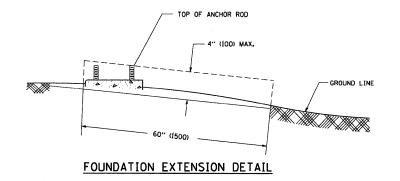
REVISED - 04-22-02

REVISED

REVISED

REVISED

## FOUNDATION DETAIL



DESIGNED

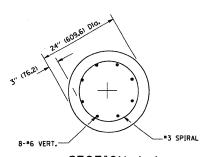
CHECKED

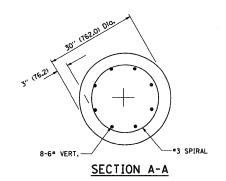
DRAWN

DATE

USER NAME = gaglianobt

PLOT DATE = 1/4/2008





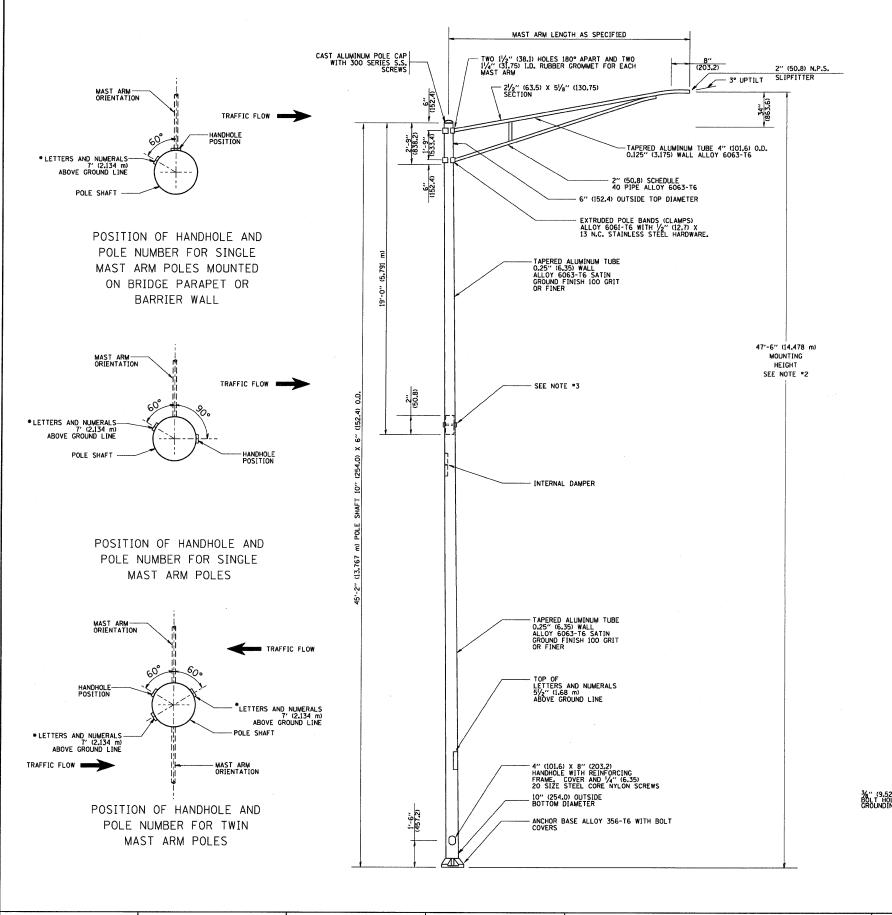
SECTION A-A

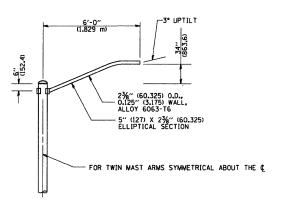
## STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

	LIGHT POLE FOUNDATIO	N .	F.A RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEE!
40' 112 4	92 m) TO 47 1/2' (14.478 m) M.H. 15"	/201 mm\ DAIT CIDCLE				781	573
40 (12.1	92 HI) 10 47 VZ (14.476 HI) W.N. 13	(361 IIIII) BULT CINGLE	_	BE-301	CONTRACT	NO.	
SCALE: NONE	SHEET NO. 1 OF 1 SHEETS STA.	TO STA.	FED. R	OAD DIST. NO. 1 ILLINOIS FED. A	ID PROJECT		

#### **NOTES**

- 1. ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.
- THE ANCHOR RODS AND RACEWAYS SHALL BE PROPERLY SECURED IN PLACE BEFORE THE CONCRETE IN PLACED.
- 3. THE FOUNDATION SHALL NOT PROTRUDE MORE THAN 100MM (4 IN.) ABOVE THE FINISHED GRADE WITHIN A 60 IN. (1.5 m) CHORD ACROSS THE FOUNDATION. WITH ANCHOR RODS INCLUDED, IN ACCORDANCE WITH AASHTO GUIDELINES. IF THE FOUNDATION HEIGHT, INCLUDING ANCHOR RODS, EXTENDS BEYOND THESE SPECIFIED LIMITS, THE FOUNDATION SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE. SEE FOUNDATION EXTENSION DETAIL.
- 4. THE HOLE FOR THE FOUNDATION SHALL BE MADE BY DRILLING WITH AN AUGER, OF THE SAME DIAMETER AS THE FOUNDATION, IF SOIL CONDITIONS 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 SHALL BE CHAMFERED 3/4-IN. (20 mm).
- 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.
- 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.
- 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 ACTUAL F 1136.
- 10. THE ANCHOR RODS SHALL BE THREADED A MINIMUM OF 6 INCHES (150 mm) WITH A MINIMUM OF 3 INCHES (75 mm) OF THREADED ANCHOR ROD EMBEDDED IN THE FOUNDATION.
- 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.





## 6' (1.8 m) SINGLE MEMBER MAST ARM (N.T.S.)

#### NOTES:

- ALL DIMENSIONS ARE IN INCHES (MILLIMETERS)
  UNLESS OTHERWISE SHOWN.
   MOUNTING HEIGHT IS DEFINED AS THE
  DISTANCE FROM THE CENTERLINE OF THE
  TENON TO THE BOTTOM OF THE ANCHOR BASE.
- 3. TWO PIECE SHAFT WILL BE MATCHED MASS.
  AND INTERCHANGEABLE BETWEEN DIFFERENT UNITS, FIELD DRILLING OF THE HOLES WILL NOT BE ALLOWED.

  4. THE LIGHT POLE WILL MEET AASHTO DESIGN CRITERIA AS SPECIFIED.

- CRITERIA AS SPELIFIED.

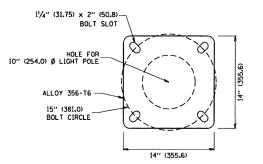
  5. THE INSTALLING CONTRACTOR WILL PROVIDE A
  UL LISTED GROUNDING CONNECTOR. BURNDY
  K2C23, T&B SP4DL OR APPROVED EQUAL.

  6. LIGHT POLES WILL NOT BE INSTALLED WITHOUT
  MAST ARMS AND LUMINAIRES.

- MASI ARMS AND LUMINARIES.

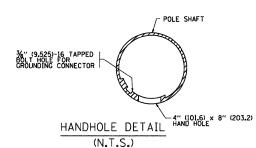
  7. LIGHT POLES WILL BE SET PLUMB ON THE FOUNDATION WITHOUT THE USE OF LEVELING NUTS, WASHERS OR SHIMS.

  8. LIGHTING UNIT IDENTIFICATION NUMBERS SHALL BE INSTALLED BEFORE THE LIGHTING UNIT IS ENERGIZED.



## LIGHT POLE BASE PLATE DETAIL

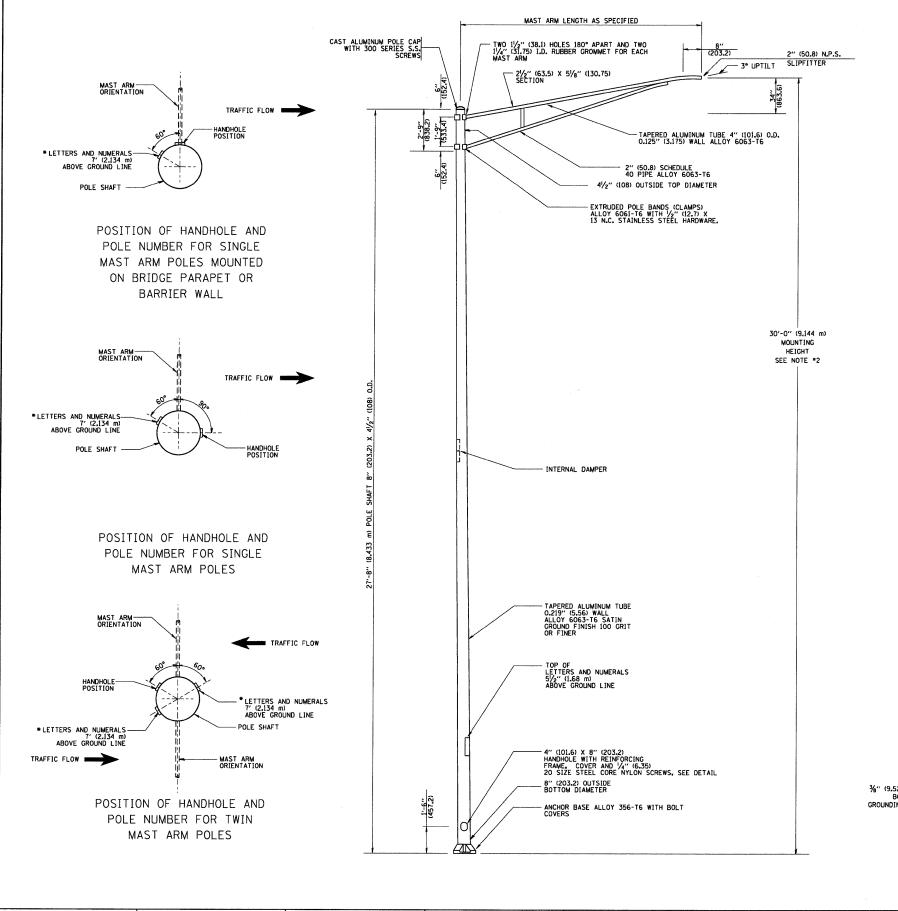
15 INCH (381.0) BOLT CIRCLE

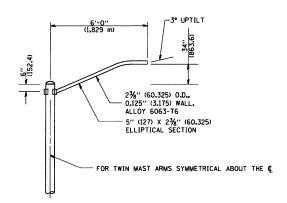


	FILE NAME =	USER NAME = gaglianobt	DESIGNED -	REVISED - R. TOMSONS 09-06-00
	W:\diststd\22x34\be400.dgn		DRAWN -	REVISED - R. TOMSONS 09-03-03
		PLOT SCALE = 50.000 '/ IN.	CHECKED ~	REVISED -
ı		PLOT DATE = 1/4/2008	DATE -	REVISED -

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION** 

	ALUMINUM LIGHT POLE		F.A RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	47'-6" (14.478 m) MOUNTING HEIGHT	Γ				781	574
				BE-400	CONTRACT	NO.	
-	SCALE: NONE   SHEET NO. 1 OF 1 SHEETS   STA. TO STA.	Г	FED. RO	OAD DIST, NO. 1 ILLINOIS FED. AL	D PROJECT		





## 6' (1.8 m) SINGLE MEMBER MAST ARM (N.T.S.)

#### NOTES:

- 1. ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.
- 2. MOUNTING HEIGHT IS DEFINED AS THE DISTANCE FROM THE CENTERLINE OF THE TENON TO THE BOTTOM OF THE ANCHOR BASE. 3. THE LIGHT POLE WILL MEET AASHTO DESIGN CRITERIA AS SPECIFED.
- CRITERIA AS SPECIFIED.

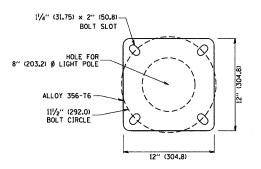
  4. THE INSTALLING CONTRACTOR WILL PROVIDE A UL LISTED GROUNDING CONNECTOR. BURNDY K2C23, T&B SP4DL OR APPROVED EQUAL.

  5. LIGHT POLES WILL NOT BE INSTALLED WITHOUT MAST ARMS AND LUMINAIRES.

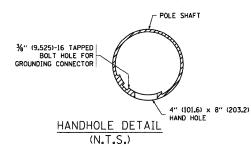
- MASI AKMS AND LUMINAIRES.

  6. LIGHT POLES WILL BE SET PLUMB ON THE FOUNDATION WITHOUT THE USE OF LEVELING NUTS, WASHERS OR SHIMS.

  7. LIGHTING UNIT IDENTIFICATION NUMBERS SHALL BE INSTALLED BEFORE THE LIGHTING UNIT IS ENERGIZED.



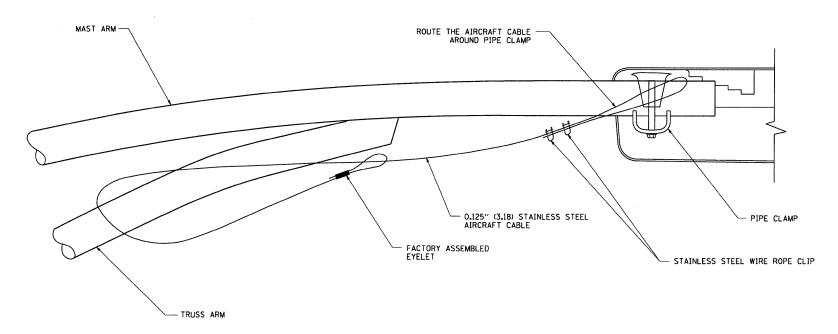
LIGHT POLE BASE PLATE DETAIL 111/2" (292.0) BOLT CIRCLE



FILE NAME =	USER NAME = gaglianobt	DESIGNED -	REVISED - R. TOMSONS 09-02-03	
W:\diststd\22x34\be403.dgn	*	DRAWN ~	REVISED -	S
	PLOT SCALE = 50.000 '/ IN.	CHECKED -	REVISED -	DEPARTM
	PLOT DATE = 1/4/2008	DATE -	REVISED -	

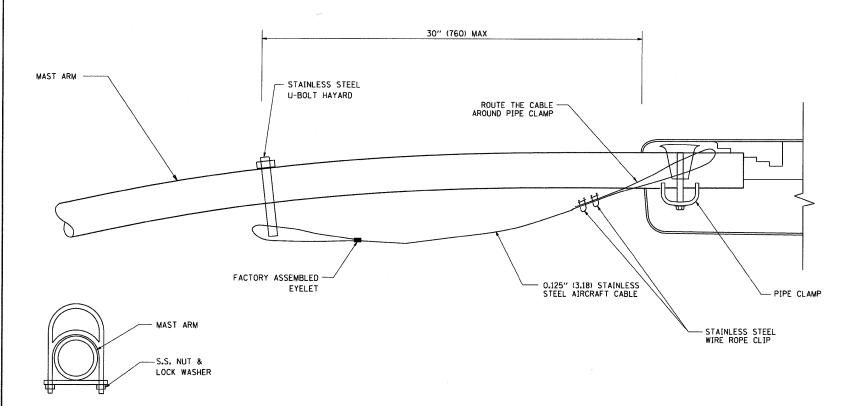
STATE OF ILLINOIS MENT OF TRANSPORTATION

	ALUMINUM LIGHT POLE  30'-0" (9.144 m) MOUNTING HEIGHT						SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
									781	575
						4	BE-403	CONTRACT	NO.	
	SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.					FED. R	OAD DIST. NO. 1   ILLINOIS FED. A	ID PROJECT		



## SIDE VIEW (TRUSS ARM)

N.T.S.



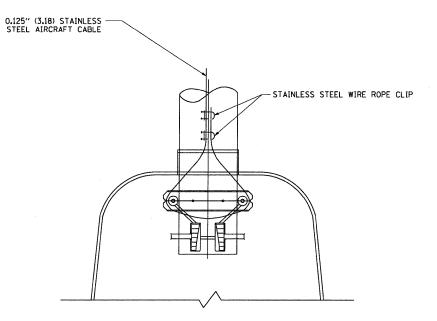
## SIDE VIEW (SINGLE MEMBER OR DAVIT ARM) N.T.S.

FILE NAME = USER NAME = gaglianobt DESIGNED - REVISED - 08-08-03

W:\diststd\22x34\be70i.dgn - REVISED 
PLOT SCALE = 58.0000 '/ IN. CHECKED - REVISED 
PLOT DATE = 1/4/2008 DATE - REVISED -

STAINLESS STEEL U-BOLT HAYARD

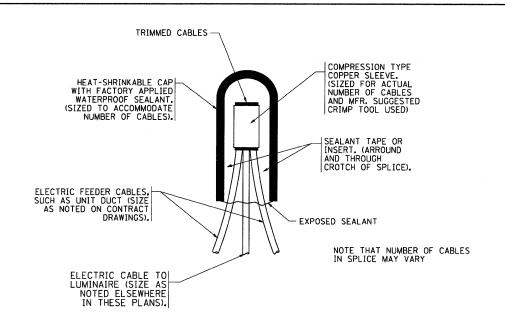
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



BOTTOM VIEW N.T.S.

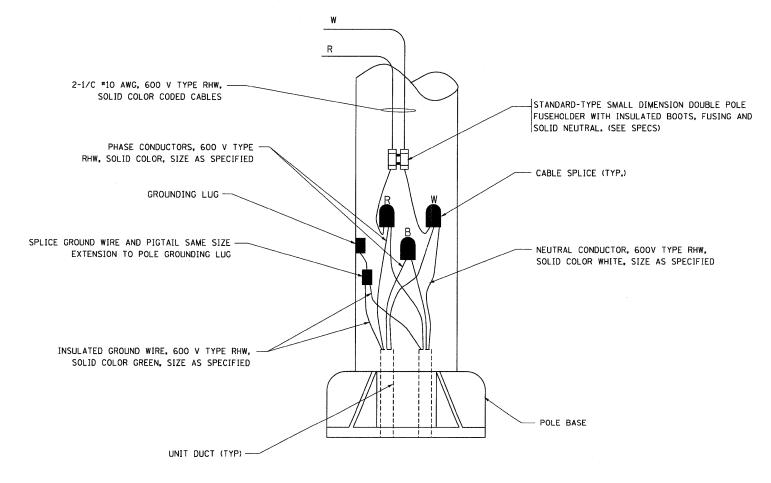
#### NOTES

- 1. ALL DIMENSIONS ARE IN MILLIMETERS (INCHES) UNLESS OTHERWISE SHOWN.
- 2. CONTRACTOR SHALL ADJUST THE WIRE CLIP TO ELIMINATE ANY SLACK FROM THE WIRE ROPE.
- 3. THE 0.125" (3.18) STAINLESS STEEL AIRCRAFT CABLE SHALL REMAIN VISIBLE FROM THE GROUND LEVEL.
- 4. THE BREAKING STRENGTH OF THE CABLE SHALL BE 1700 LBS. MIN.



## TYPICAL SPLICE DETAIL

N.T.S.



TYPICAL WIRING IN TRENCH DETAIL
N.T.S.

30" (762) MINIMUM COVER 12" (305) MAXIMUM WIDTH EXCEPT AS APPROVED BY THE ENGINEER

12" (305)

WARNING TAPE AS SPECIFIED

WITH INTERNAL INSULATED EQUIPMENT GROUND WIRE.

UNIT DUCT OR OTHER RACEWAY
AND WIRING AS PER PLANS. COMPLETE

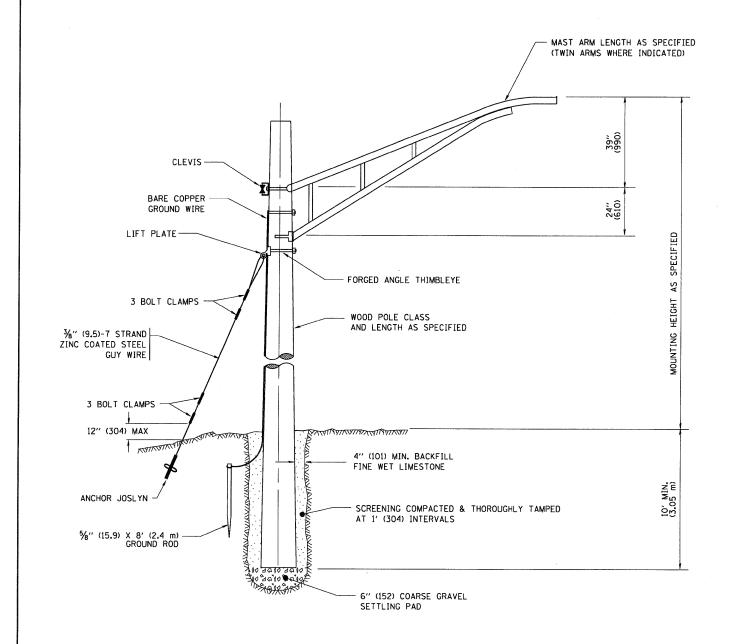
## POLE WIRING DETAIL

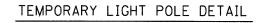
N.T.S.

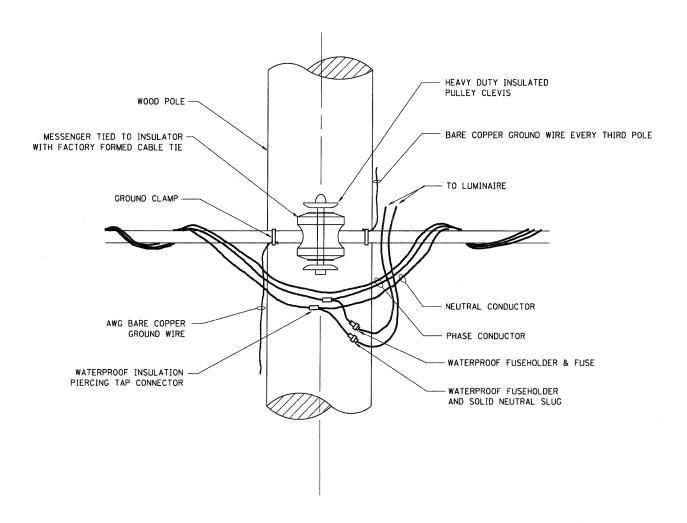
FILE NAME =	USER NAME = gaglianobt	DESIGNED -	REVISED - 08-08-03	
W:\diststd\22x34\be702.dgn		DRAWN -	REVISED -	
	PLOT SCALE = 50.000 '/ IN.	CHECKED -	REVISED -	
•	PLOT DATE = 1/4/2008	DATE -	REVISED -	

STATE	OF	ILLINOIS
DEPARTMENT (	OF 7	<b>TRANSPORTATION</b>

	MISC. ELECTRICAL	RTE.	SECTION	COUNTY	SHEETS	SHEET NO.		
	SHEET A	<u> </u>	BE-702	CONTRACT		577		
SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.	FED. R	OAD DIST. NO. 1   ILLINOIS FED. A		1102	





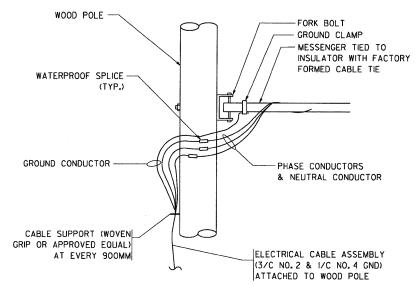


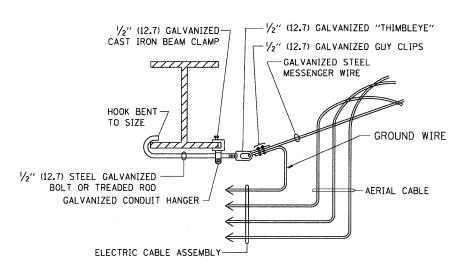
TEMPORARY LIGHT POLE ATTACHMENT DETAIL

#### NOTES:

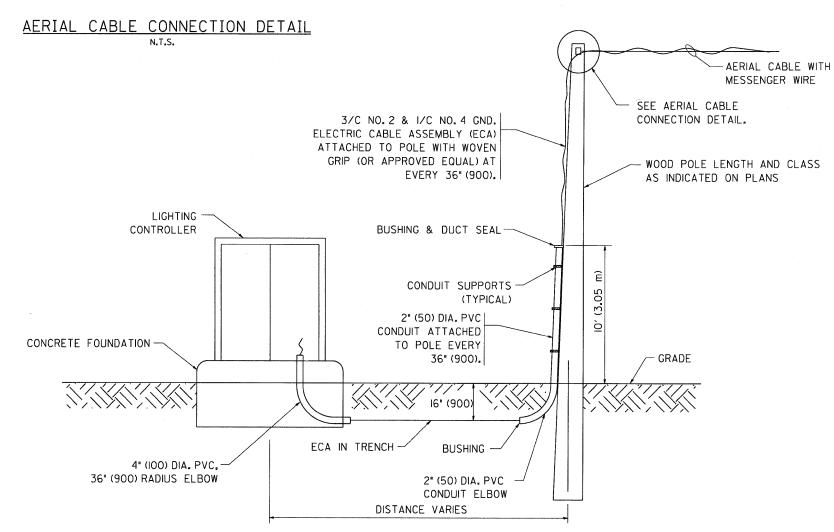
1. ALL DIMENSIONS IN INCHES (MILLIMETERS) UNLESS OTHERWISE INDICATED

FILE NAME =	USER NAME = gaglianobt	DESIGNED -	REVISED - 08-08-03			TEMPORARY LIGHT P	OLF DETAILS		F.A. · S	ECTION	COUNTY	TOTAL SHEET
W:\diststd\22x34\be800.dgn		DRAWN -	REVISED -	STATE OF ILLINOIS		IEMPUKAKY LIGHT P	OFE DELVIES		RIE.			704 F70
	PLOT SCALE = 50.000 '/ IN.	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION					RF	800	CONTRACT	[ NO.
	PLOT DATE = 1/4/2008	DATE -	REVISED -		SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.	FED. ROAD DIST. NO.	. 1 ILLINOIS FED. A		





## AERIAL CABLE ATTACHED TO STRUCTURE NOT TO SCALE



### NOTES:

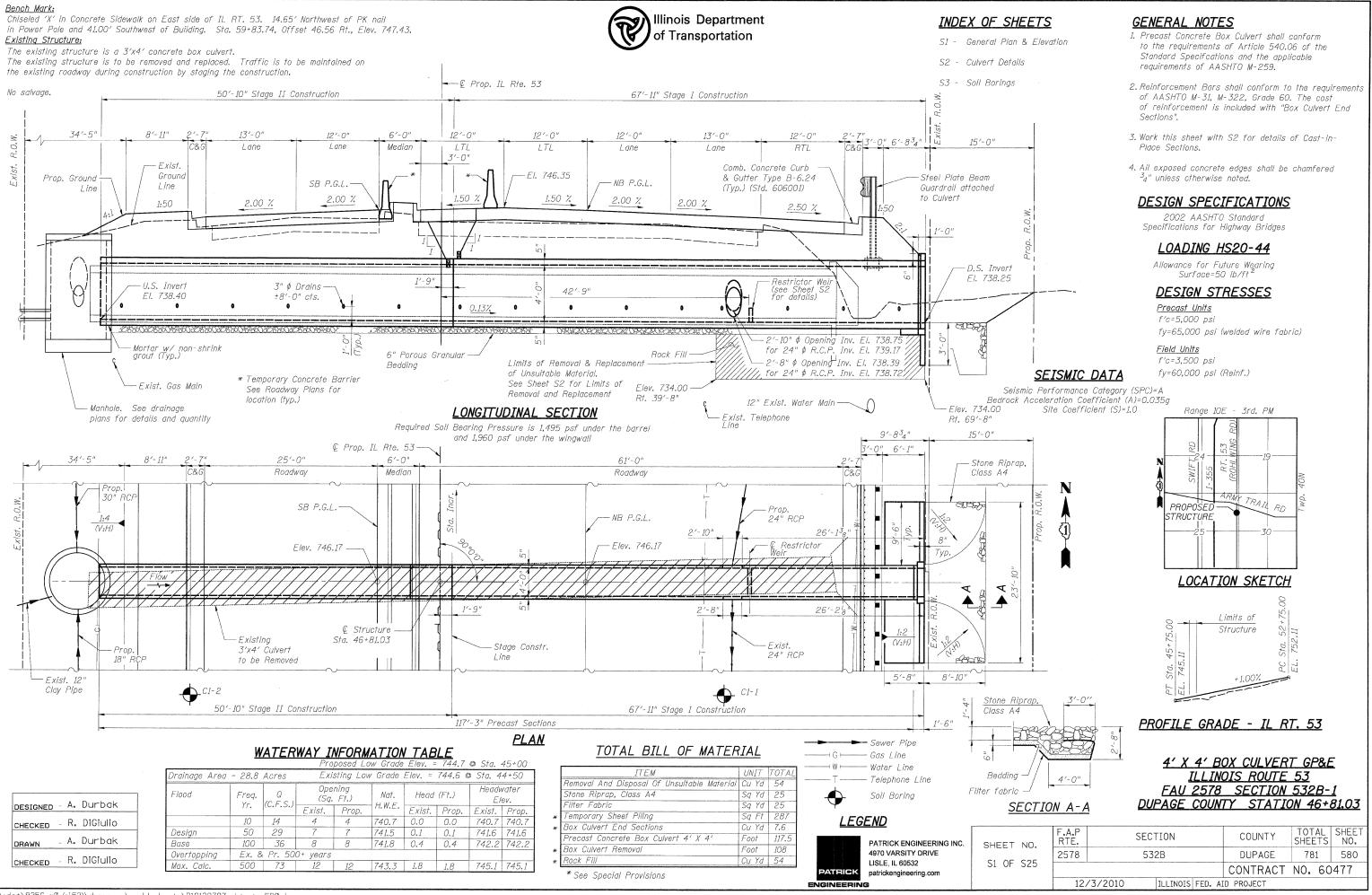
- 1. ALL DIMENSIONS IN INCHES (MILLIMETERS)
  UNLESS OTHERWISE INDICATED.
- SEE PROPOSED LIGHTING PLAN FOR CONDUIT, CABLE AND ROUTING.
- 3. THE CONTRACTOR SHALL PROVIDE INTERMEDIATE SUPPORTS TO MAINTAIN MINIMUM CLEARANCES. REFER TO AERIAL AERIAL CABLE ATTACHED TO STRUCTURE DETAIL.
- 4. COST OF SPLICES AND MOUNTING HARDWARE SHALL BE INCLUDED IN THE UNIT PRICE FOR AERIAL CABLE.

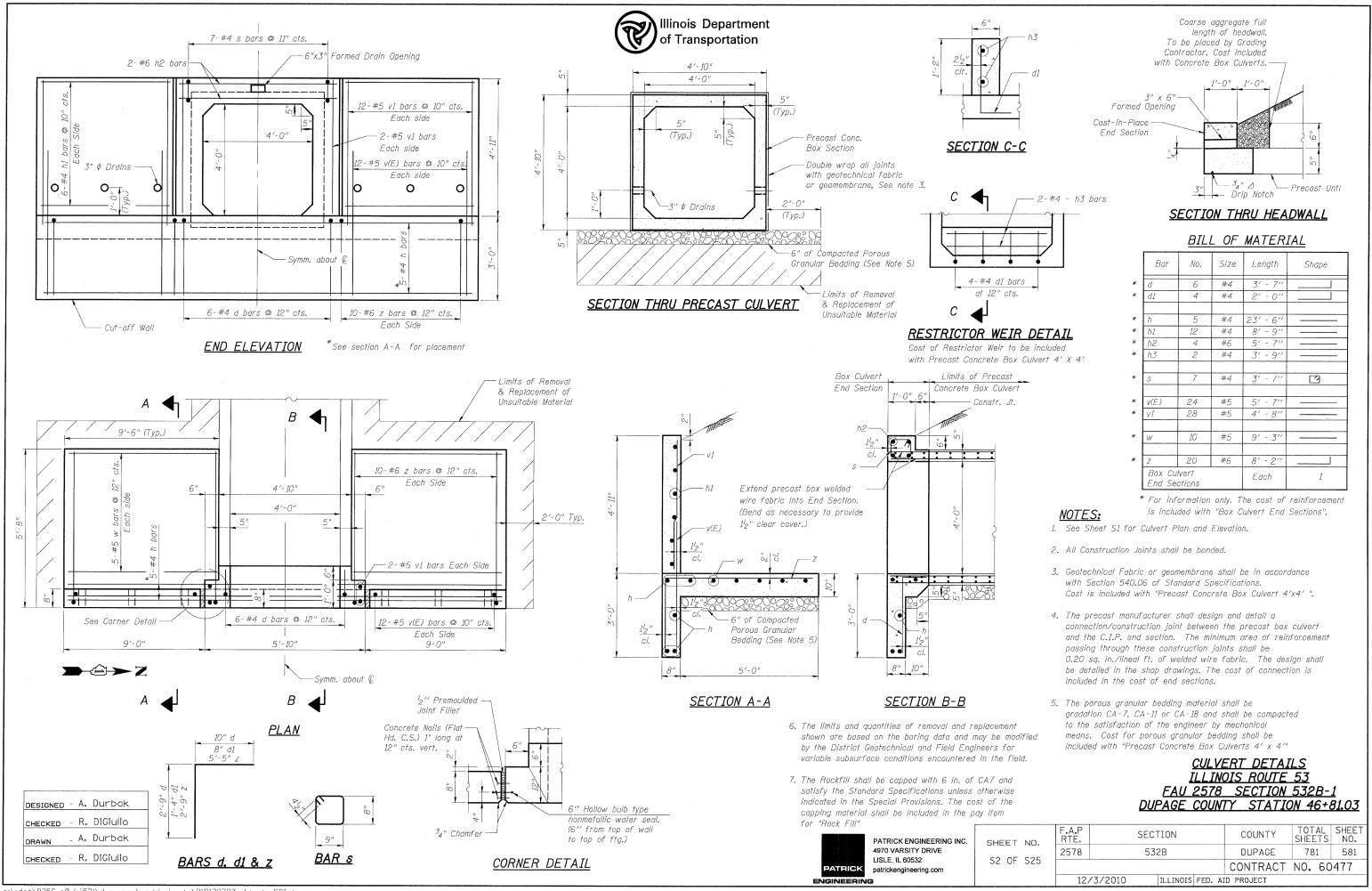
# WOOD POLE TO LIGHTING CONTROLLER WIRING CONNECTION DETAIL

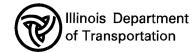
FILE NAME =	USER NAME = gaglianobt	DESIGNED -	REVISED - 08-08-03	_
W:\diststd\22x34\be801.dgn		DRAWN -	REVISED -	
	PLOT SCALE = 50.000 ' / IN.	CHECKED -	REVISED -	
	PLOT DATE = 1/4/2008	DATF -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY AERIAL CABLE INSTALLATION					F.A RTE.	SECTION	COUNTY TOTAL SH		
						DF 004	CONTRACT	781	579
SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.					FED. R	BE-801 OAD DIST. NO. 1 ILLINOIS FED. AI	CONTRACT D PROJECT	NO.	

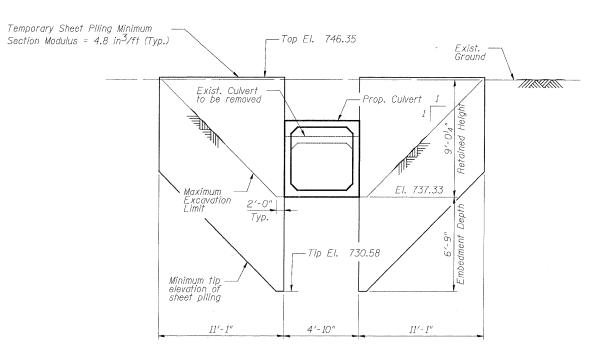






SAMPLE FROM - TO 0.0-1.0		t No. 1	ts - Thorndale Avenue to Army Trail Road rich D-50 w/Hollow Stem Augers		STATIO OFFSE SURF E	N: s		helis da Da Ave
	PTH	ELEV.	SOIL DESCRIPTION	REC.	BLOWS/6"	qu	STRAIN	CONT
1.0-2.5	-	742.9	14" Bituminous Concrete 4" Sand A-1-a	16	Auger 12 10-8	8.6	15	19
3.5-5.0	3:			13	3 2-4	1.2	15	22
6.0-7.5	69		FILL: Gr to Black Silty Clay A-7-6, trace Grayel, roots and wood chips	14	2 4-5	2.1	15	25
8.5-10.0	10. 8.5	733.9		15	2 2-3	1.0	15	22
11.0-12.5	11,	731.4	Soft Br Clay A-6, trace Gravel; 1" Sand Seam noted	17	2 4-6	0.4	15	19
13.5-15.0	133		1	15	4 7-11	2.1	15	12
16.0-17.5	163		Very Stiff to Stiff Gr Silty Clay Loam A-6, trace Gravel	5	.4 6-8	(2.0)		14
18.5-20.0	20 18.1	724.4	Borling terminated @ 20'	10	3 16-12	1.7	15	13
	REMAR		mer Used.  DURING DRILLING ▼ CORE SIZE		DATE:	Penetro	ometer E	stimate
	REMAR		DRY FT. ELEV.		DRY FT. ELEV. DURING DRILLING ♥ CORE SIZE IN.	DRY FT. ELEV. DURING DRILLING Ø CORE SIZE IN. DATE:	Penetri  DRY FT. ELEV. DURING DRILLING ♥ CORE SIZE IN. DATE:	Penetrometer E

JOB NO PROJEI LOCATI	CT: <b>IL-53 imp</b> ION: <b>Culvert N</b>	2 CLIENT: provement lo. 1	BOR ILLINOIS DEPARTMENT s - Thorndale Avenue to #	rmy Trail Road		BORING STATIC OFFSE	S NO: N:	46+74 36' LT	NOR
BORING	3 RIG & METHO SAMPLE FROM - TO	ELEV.	rich D-50 w/Hollow Stem I	Augers ESCRIPTION	REC.	SURF E	LEV:	744.8 STRAIN	WATE CONTE
	0.0-1.0	744.3	6" Gr Silty Clay Topsoil	X.123	j.	Auger	-		
	1.0-2.5	741.8	FILL: Br Clay Loam A-6, tra	ce roots	15	2 4-5	4.1	15	12.5
	3.5-5.0	739.3	FILL: Br to Gr Silty Clay A-6	trace wood chips	13	3 3-3	2.1	15	21,4
	6.0-7.5	736.8	Probable FILL: Br to Gr Cla	Y A-6	1.4	3 3-4	1.2	16	24.3
- 10	8:5-10:0		Stiff to Very Stiff Br to Gr C	av A-6, trace Gravel	17	2 3-3	1.2	15	17.4
	11.0-12.5	731.8		ent an ent an ent ent ent ent ent ent ent ent ent en	10	.2 4-5	2.5	15	19,3
-	13.5-15.0		Programma Co. Co.		16	2 2-4	1.7	15.	15.5
	16.0-17.5		Stiff Gr Silty Clay Loam A-6	trace Gravel	17	3.5	1,4	15	16,9
- 20	18.5-20.0	724.8			17	3 3-5	1.7	15	15.1
	REMARKS Auto						Penetro	s Calibrat ometer Es	timate
WATER		T. ELEV.	mer Used.  DURING DRILLING  AT COMPLETION		ÎN.	DATE:	Penetro		timate 3



TEMPORARY SHEET PILING ELEV.

SOIL BORINGS ILLINOIS ROUTE 53 FAU 2578 SECTION 532B-1 DUPAGE COUNTY STATION 46+81.03



PATRICK ENGINEERING INC. 4970 VARSITY DRIVE LISLE, IL 60532 patrickengineering.com

DESIGNED - A. Durbak

CHECKED - R. DiGiulio

DRAWN - A. Durbak

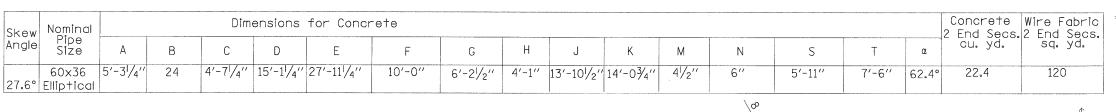
CHECKED - R. DiGiulio

## Illinois Department of Transportation

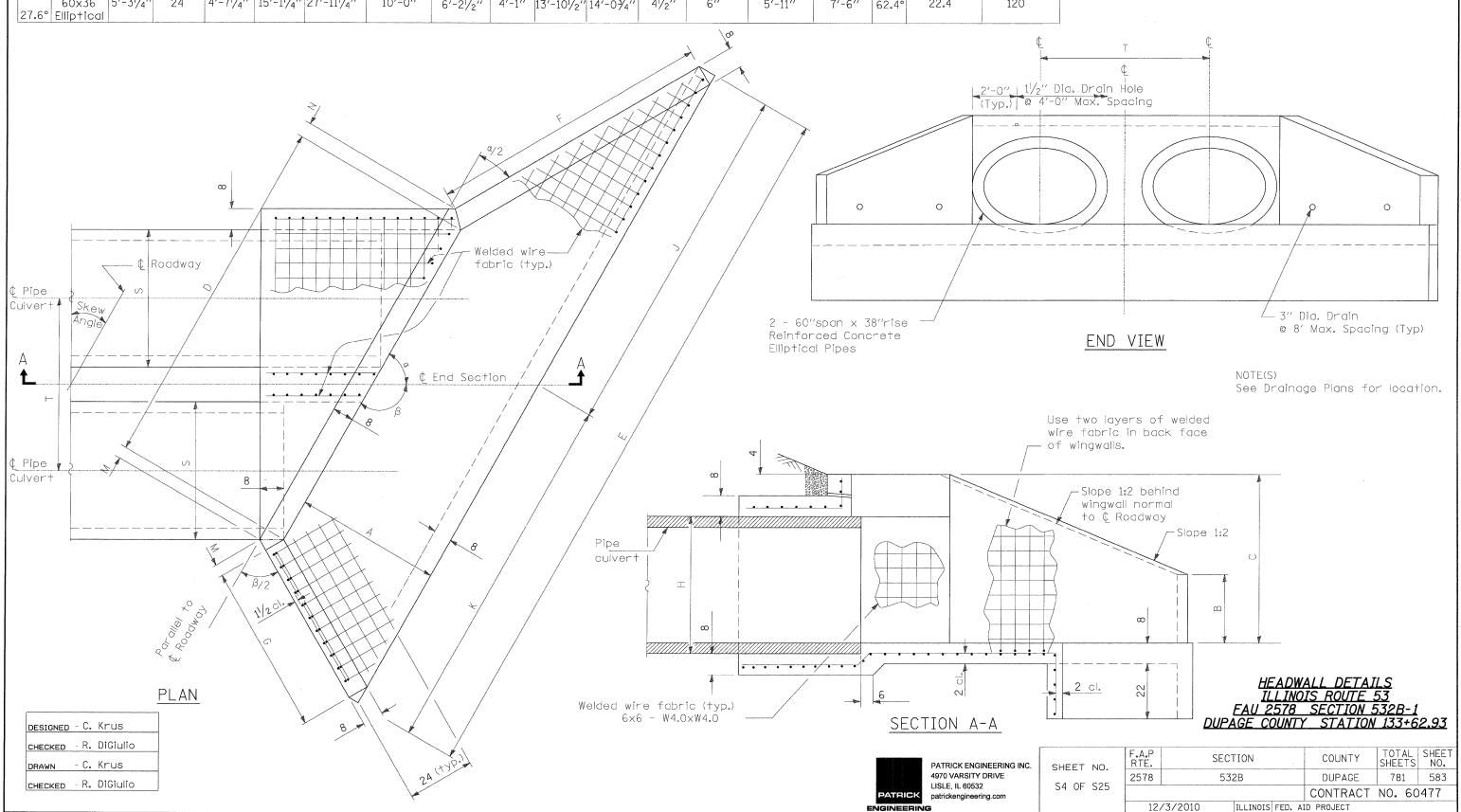
## TOTAL BILL OF MATERIAL

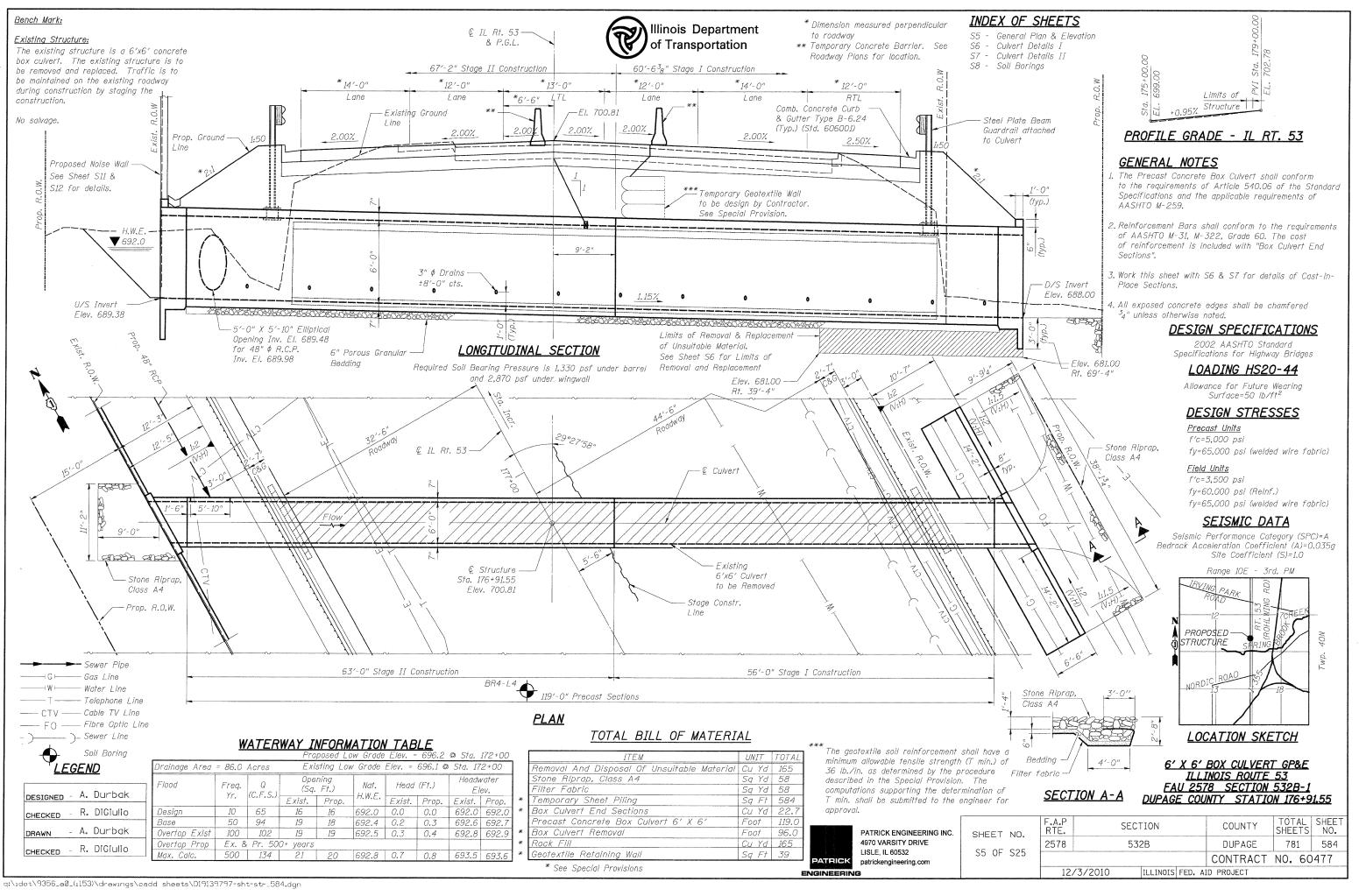
	ſ	·····	ITE	- M			UNIT	TOTAL
C 3	*[	Cast-In-Place	Reinforced	Concrete	End	Sections	CU YD	22,4

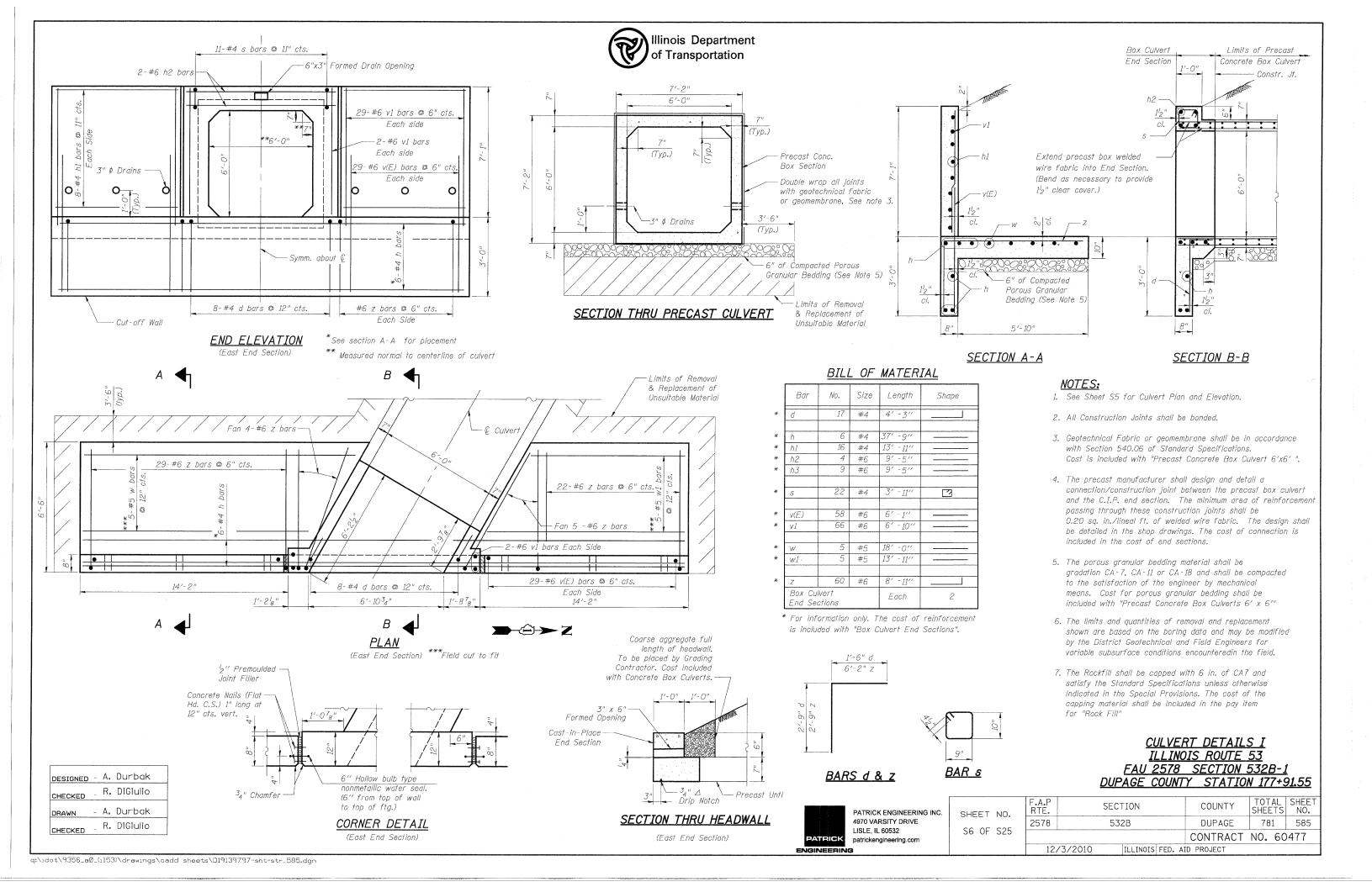
* See Special Provisions

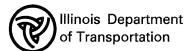


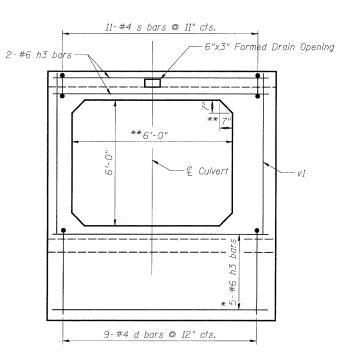
DIMENSION TABLE







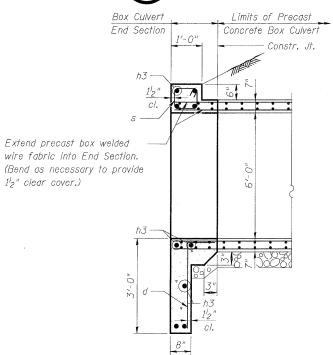




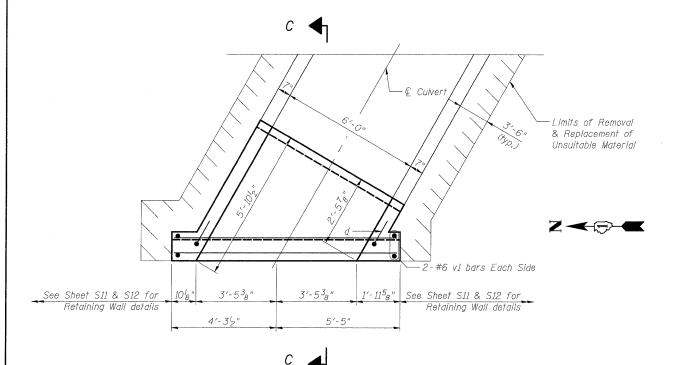
**END ELEVATION** (West End Section)

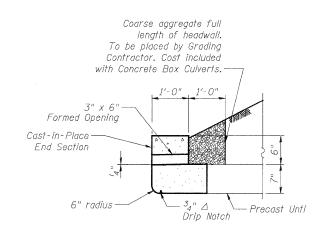
*See section C-C for placement

** Measured normal to centerline of culvert



SECTION C-C





## SECTION THRU HEADWALL

(West End Section)

PLAN DESIGNED - A. Durbak

CHECKED - R. DIGIUITO - A. Durbak DRAWN CHECKED - R. DiGiulio (West End Section)

PATRICK ENGINEERING

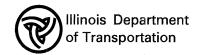
PATRICK ENGINEERING INC. 4970 VARSITY DRIVE LISLE, IL 60532 patrickengineering.com

SHEET NO. S7 OF S25

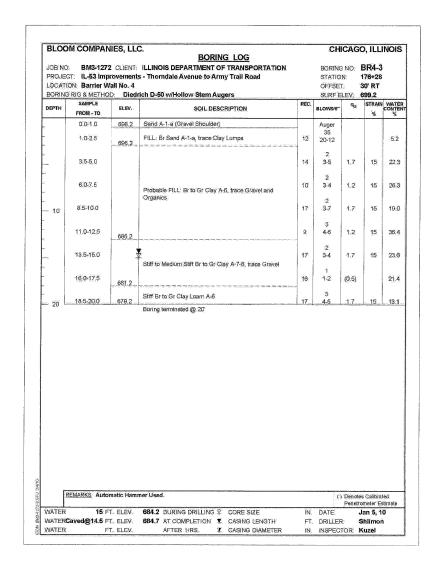
DUPAGE COUNTY STATION 176+91.55 TOTAL SHEETS NO. F.A.P RTE. SECTION COUNTY 2578 532B DUPAGE 781 586 CONTRACT NO. 60477 12/3/2010 ILLINOIS FED. AID PROJECT

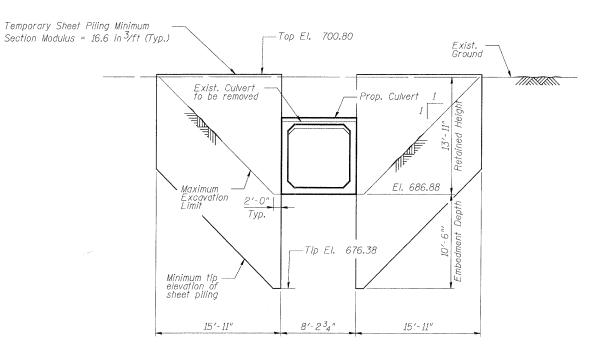
CULVERT DETAILS II ILLINOIS ROUTE 53

FAU 2578 SECTION 532B-1



IOB NO PROJE OCAT IORIN		2 CLIENT provement Vall No. 4	BORING LOG  ILLINOIS DEPARTMENT OF TRANSPORTATION  Tourndale Avenue to Army Trail Road  rich D-50 w/Hollow Stem Augers		BORIN STATI OFFSE SURF	IG NO; ON; ET:	BR4- 176+7 15' LT 700,2	1
EPTH	FROM - TO	ELEV.	SOIL DESCRIPTION	REC	BLOWS	Tu.	STRA	N WATER
Z. Signeration	0.0-1.0 1.0-2.5	699.4	8° Bituminous Concrete \2° Sand A-1-a	/ 10	Auger 3 3-4	(3.5)	1	
	3.5-5.0			15	3-4	17	15	18.5
	6.0-7.5	The second second	FILL: Brito Gr Clay A-6, bace Gravet and Organics	10	2 2-3	0.5	15	19.1
10	8.5-10.0			12	3 3-4	13	15	25.3
and the same of th	11,0-12.5	687.2		6	2 2-2	(0.8)		24.9
- New York	13.5-15.0	_ 984.7	Very Stiff Br Clay A-6, trace Gravel	17	3 4-5	2.8	15	23.8
- Constitution of the cons	18.0-17.5	1	Soft to Medium Shiff Gr Sandy Clay A-4, trace Graval	12	1 2-4	(0.3)		19.2
20	18.5-20.0	_679.2	Only vary A-4, Ince (Staye)	15	4 5-7	(0.6)		20,0
The second second	24.0-22,5			13	3 6-10			20.2
	23.5-25.6	The second	Medium Doose Fine Sand A-3, trace Grave)	16	5 5-8			19.7
	26.0-27,5		6" Clay Seam @ 26.5" (Hard Gr Clay A-6)	18	5 8-11	5,8	15	17,8
30	28.5-30.0	. 679.2		18	5 6-8			19.9
	31.0-32.5		Very Stiff to Stiff Gr Clay A-6, little - Gravel	14	4 5-9	2.3	15	19.6
L	33.5-35.0	665.2	Boring terminated @ 35	18	5 6-10	1.4	15	13.4
	EMARKS Auton		The state of the s				mendo a scalo	
TER TER	17 FT 12.5 FT	CLEV.	693.2 DURING DRILLING X CORE SIZE 687.7 AT COMPLETION X CASING LENGTH AFTER HIRS, X CASING DIAMETER	IN. FT.				imate





TEMPORARY SHEET PILING ELEV.

SOIL BORINGS ILLINOIS ROUTE 53 FAU 2578 SECTION 532B-1 DUPAGE COUNTY STATION 176+91.55



PATRICK ENGINEERING INC. 4970 VARSITY DRIVE LISLE, IL 60532 patrickengineering.com SHEET NO. 88 OF S25 25

F.A.P RTE. SECTION COUNTY TOTAL SHEETS NO. 2578 532B DUPAGE 781 587

CONTRACT NO. 60477

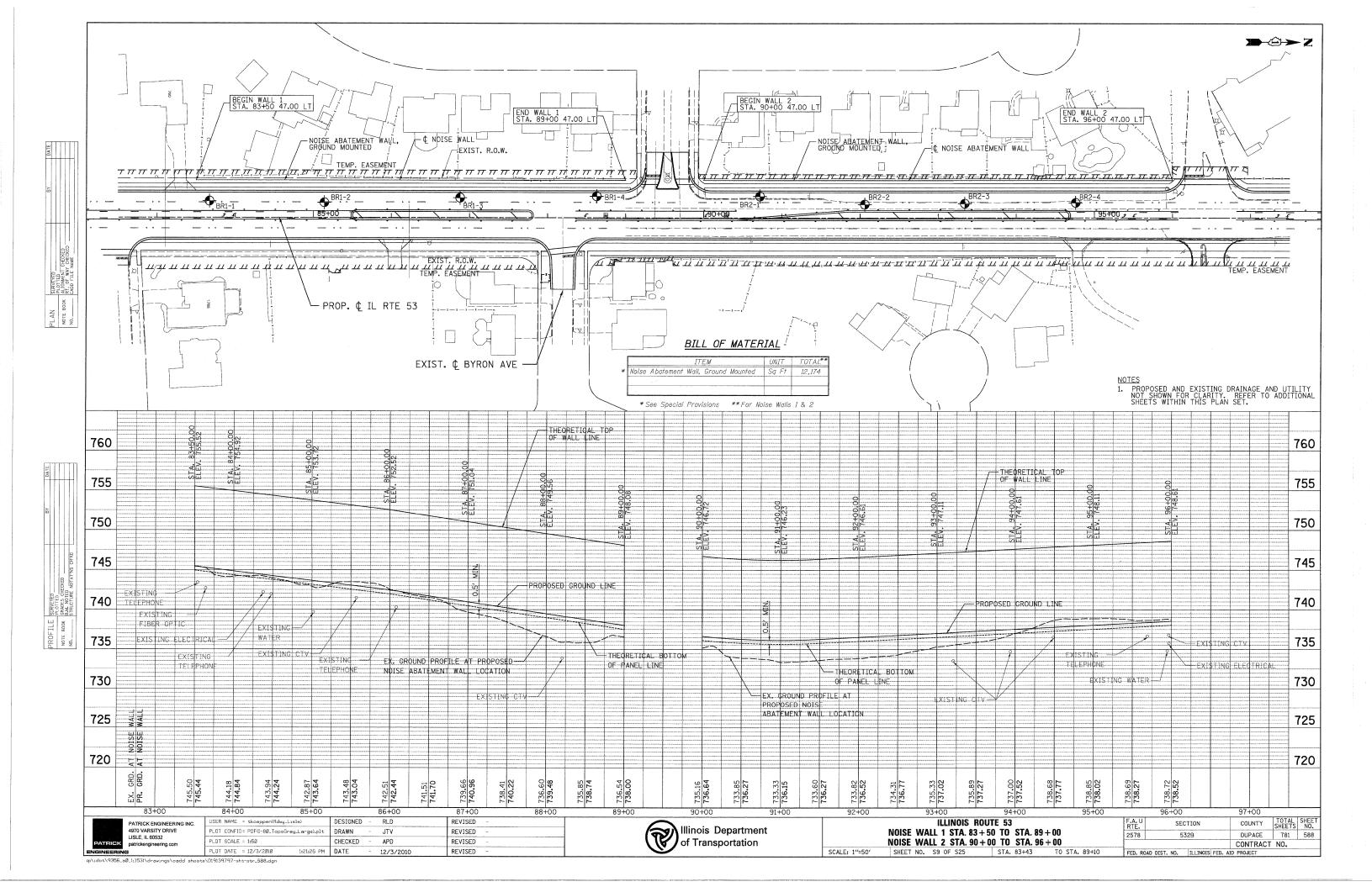
12/3/2010 ILLINOIS FED. AID PROJECT

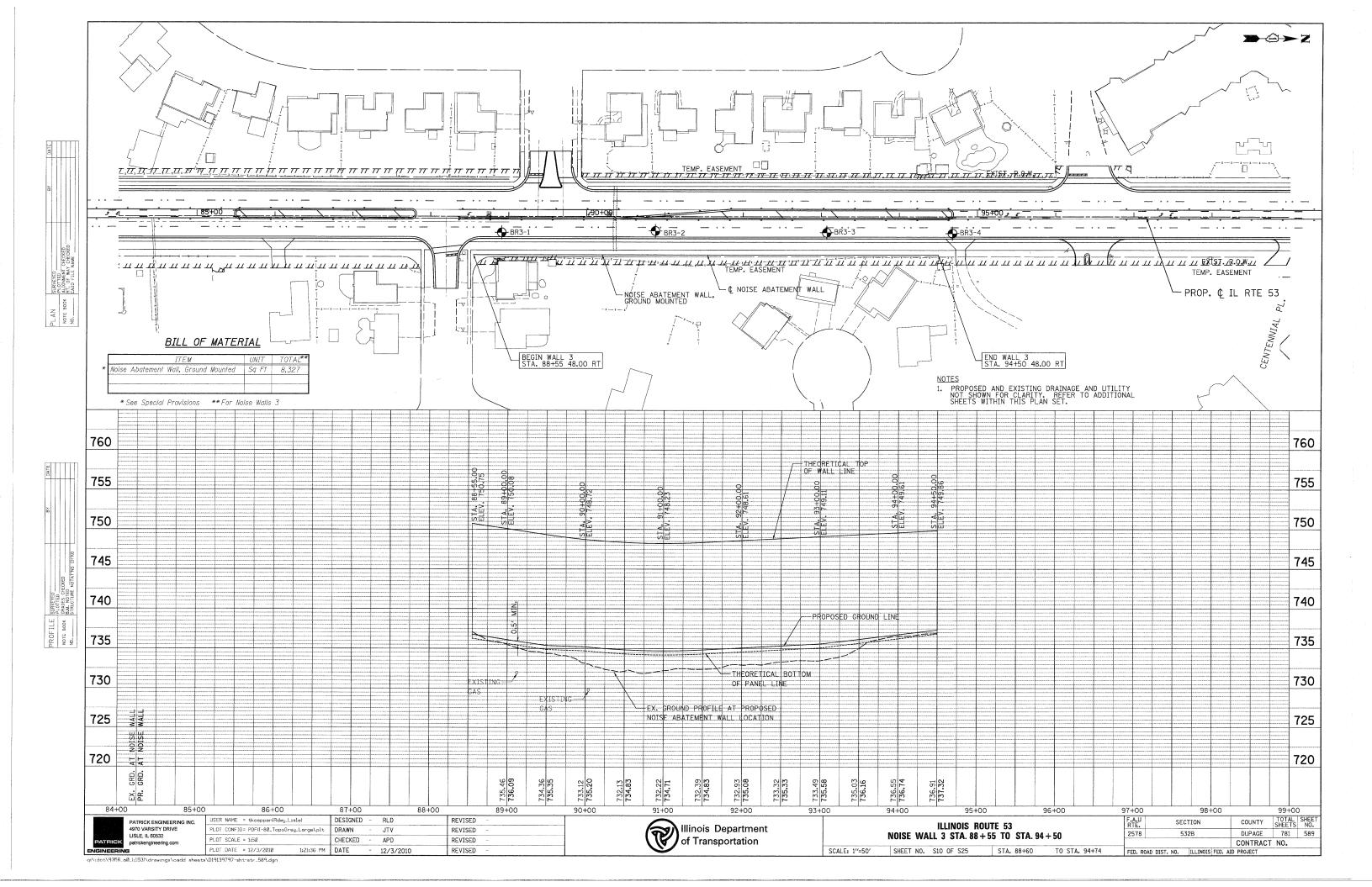
DESIGNED - A. Durbak

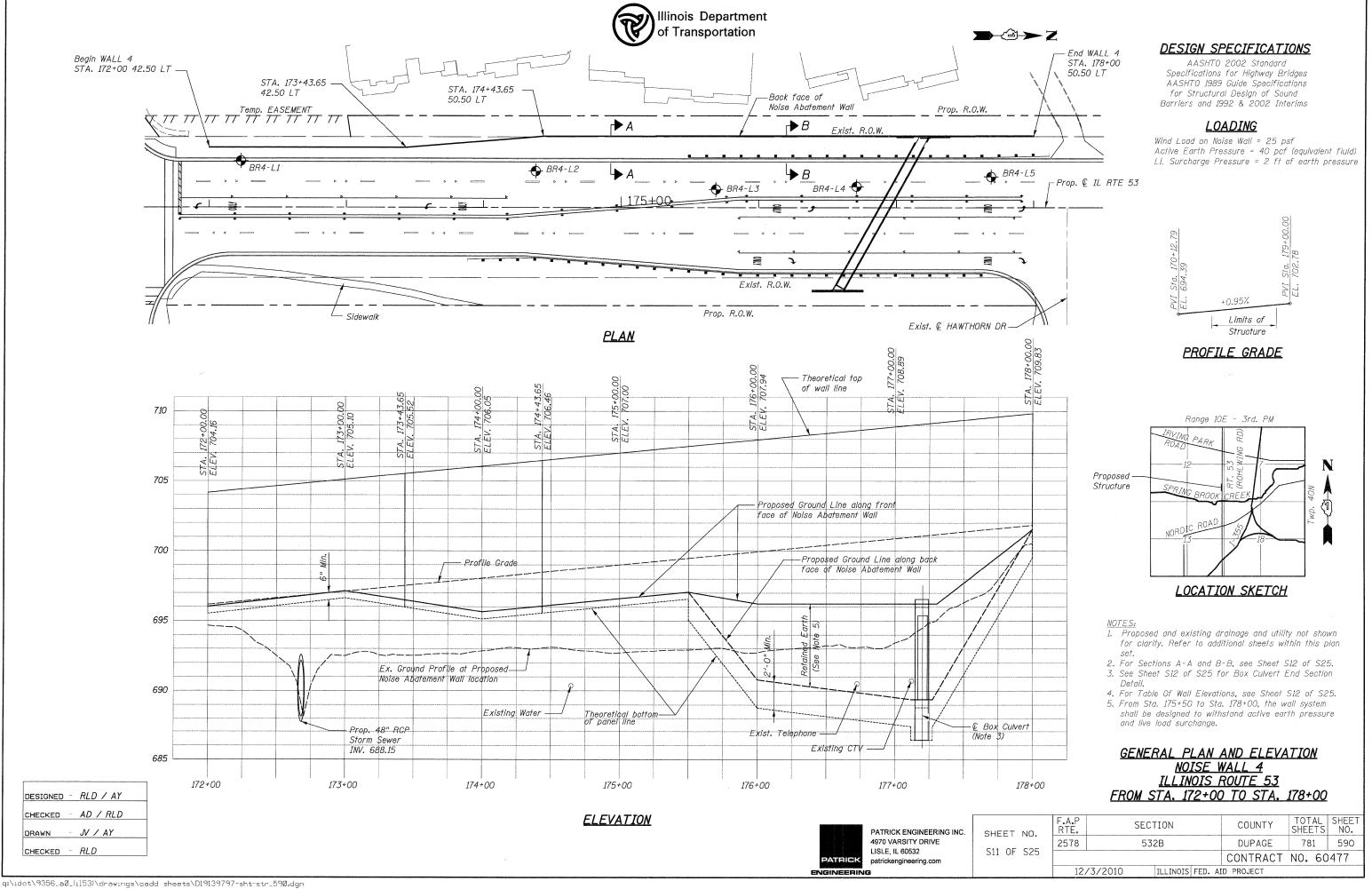
CHECKED - R. DiGiulio

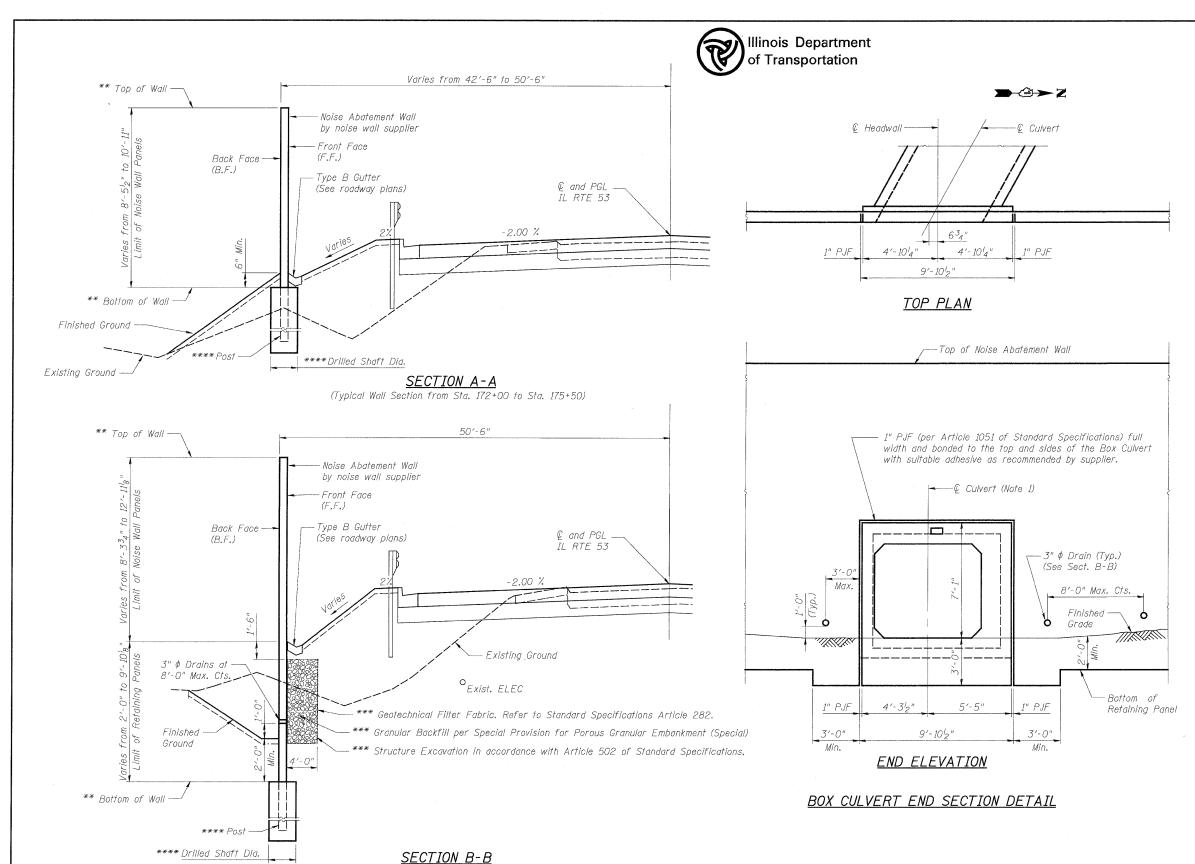
DRAWN - A. Durbak

CHECKED - R. DiGiulio









#### NOTES:

- 1. For additional details of Box Culvert, see Sheet S7 of S25.
- 2. Work wall elevations with Cross Section Sheets within this plan set.

### TABLE OF WALL ELEVATIONS

·····				,	
	Existina	Finished	Finished	Theoretical	Theoretical
Station	Grade	Grade	Grade	Тор	Bottom
	Or ado	(F.F.)	(B.F.)	of Wall	of Wall
172+00.00	694.65	696.02	696.02	704.16	695.52
172+25.00	694.32	696.30	696.30	704.40	695,80
172+50,00	692.50	696.58	696.58	704.63	696.08
172 + 70.00	688.15	696.80	696,80	704.82	696.30
173+00.00	692.48	697.14	697.14	705.10	696.64
173+25.00	692.50	696.77	696.77	705.34	696.27
173+43.65	692.51	696.49	696.49	705.52	695.99
173+75.00	692.58	696.02	696.02	705.81	695.52
174+00,00	692.84	695.64	695.64	706.05	695.14
174+25.00	693.10	695,88	695.88	706.29	695.38
174+43.65	693.12	696.05	696.05	706.46	695.55
174+75.00	692.87	696.35	696.35	706.76	695.85
175+00.00	692.69	696.59	696.59	707.00	696.09
175+25.00	692.81	696.83	696.83	707.23	696.33
175+50.00	692.92	697.06	697.06	707.47	696.56
175+75.00	693.04	696.64	693.92	707.71	691.92
176+00.00	692.71	696,22	690.78	707.94	688.78
176+25.00	692.97	696.22	690.46	708.18	688.46
176+50.00	693.23	696.22	690.14	708.42	688.14
176+75.00	693.18	696.22	689.81	708.65	687.81
177+00.00	693.43	696.22	689.49	708.89	687.49
177+25.00	694.85	696.22	689.38	709.12	686.38
177+50.00	696.29	697.87	693.16	709.36	691.16
177+75.00	697.96	699.69	697.34	709.60	695.34
178+00.00	700.51	701.52	701,52	709.83	699.52

### BILL OF MATERIAL

7 952
1,000

^{*} See Special Provisions

WALL DETAILS NOISE WALL 4 ILLINOIS ROUTE 53

FROM STA. 172+00 TO STA. 178+00

PATRICK ENGINEERING

PATRICK ENGINEERING INC. 4970 VARSITY DRIVE LISLE, IL 60532 patrickengineering.com

SHEET NO. S12 OF S25 F.A.P RTE. TOTAL SHEE NO. SECTION COUNTY 781 2578 532B DUPAGE 591 CONTRACT NO. 60477 12/3/2010 ILLINOIS FED. AID PROJECT

A.Y. DESIGNED R.L.D. CHECKED

R.L.D.

DRAWN

CHECKED

A.Y.

*** Wall limits for noise wall panels and retaining wall panels including top of wall and bottom of wall shall be determined by the Contractor.

Theoretical elevations for top of wall and bottom of wall are given in Table of Wall Elevations.

(Typical Wall Section from Sta. 175+50 to Sta. 178+00)

*** Cost of Structure Excavation, Geotechnical Filter Fabric, and Granular Backfill will be included with the item "Noise Abatement Wall, Ground Mounted".

**** Type, size, and spacing of post and drilled shaft including shaft diameter, embedment depth, top of shaft elevation, and reinforcement details shall be determined by the Contractor during construction.



JOB NO PROJEC LOCATION	T: <b>IL-53 Imp</b> DN: <b>Barrier W</b> RIG & METHO	2 CLIENT: rovement /all No. 1	C.  BORING LOG  ILLINOIS DEPARTMENT OF TRANSPORTATION s - Thorndale Avenue to Army Trail Road  rich D-50 w/Hollow Stem Augers			3 NO: IN: T;	BR1-1 83+67 21' LT 743.7	
DEPTH	SAMPLE FROM - TO	ELEV.	SOIL DESCRIPTION	REC.	BLOWS/6"	qu	STRAIN	CONTI
	0.0-1.0	742.7	FILL: Gr Sand and Gravel w/ Silt A-1-a		Auger			10 !
-	1.0-2.5			14	5 6-7	2.5	15	15.0
-	3.5-5.0		Very Stiff Br to Green Silty Clay A-4, trace Gravel	18	3 4-6	3,3	15	19:
	6.0-7.5	735.7		17	5 7-11	2.5	15	19.4
- 10	8.5-10.0	732.7	Very Stiff Gr Clay A-6, trace Gravel	17	4 5-6	2.1	15	16.8
	11.0-12.5	730.7	Medium Dense Gr Sand A.3, little Gravel	14	3 6-6			9.4
	13.5-15.0		Loose to Medium Dense Gr Sandy Loam A-1-b, trace	13	4 4-5			12.9
0	16.0-17.5	725.7	Gravel	6	6 9-9			23.9
- 20	18.5-20.0		Stiff to Very Stiff Gr Clay A-6, trace Gravel	12	4 4-5	1.9	15	16.4
	21.0-22.5	720.7		13	3 5-6	2.1	15	19.9
	23.5-25.0	718.7	Very Stiff Gr Silty Clay Loam A-6, trace Gravel	17	4 5-8	2,1	15	14.3
			Boring terminated at 25'					
	٠							
[B	EMARKS Auto	matic Hami	mer Used.		Č		es Calibra	
WATER	<b>13</b> F	T. ELEV.	730.7 DURING DRILLING ¥ CORE SIZE	IN.	DATE:		rometer E <b>Jan 13</b> ,	
WATER	Caved@13 F	T. ELEV.	730.7 AT COMPLETION ▼ CASING LENGTH AFTER HRS. ▼ CASING DIAMETER	FT	DRILLER	₹:	Shlimoi Kuzel	
ALCOHOLD !				9 E				

10000 000 000		rovement /all No. 1	ILLINOIS DEPARTMENT OF TRANSPORTATION s - Thorndale Avenue to Army Trail Road rich D-50 w/Hollow Stem Augers		STATIC OFFSE SURF E	N: T:	BR1-2 85+14 19' LT 742.3	•
DEPTH	SAMPLE FROM - TO	ELEV.	SOIL DESCRIPTION	REC.	BLOWS/6"	^q u	STRAIN	CONTE
	0.0-1.0	741.3	FILL: Gr Sand and Gravel w/ Silt, A-1-a		Auger			6.9
	1.0-2.5	739.3	Hard Br Silty Clay Loam A-4, trace Gravel ; 3" Sand Seam noted @ 2.2"	15	8 8-11	4.1	15	12.0
-	3.5-5.0		Very Stiff Br Clay A-6, trace Gravel	17	4 7-9	2.9	15	18.3
	6.0-7.5	734.8		16	4 7-10	2.5	15	16.3
- 10	8.5-10.0			17	4 5-7	2.1	15	16.5
	11.0-12.5			16	4 6-9	2.1	15	16.4
	13.5-15.0	1	Very Stiff to Stiff Br to Gr Clay A-6, trace Gravel	17	3 5-8	2.3	15	16.8
7.	16.0-17.5			14	4 4-7	2.6	15	17.0
	18.5-20.0	722.3		17	3, 5-8	1.7	15	18.8

NOISE WALL - SOIL BORINGS 1 ILLINOIS ROUTE 53 FAU 2578 SECTION 532B-1 DUPAGE COUNTY

PATRICK patrice

PATRICK ENGINEERING INC. 4970 VARSITY DRIVE LISLE, IL 60532 patrickengineering.com SHEET NO.
S13 OF S25

F.A.P RTE. SECTION COUNTY SHEETS NO.
2578 532B DUPAGE 781 592

CONTRACT NO. 60477

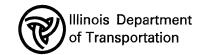
12/3/2010 ILLINOIS FED. AID PROJECT

DESIGNED - N/A

CHECKED - N/A

DRAWN - A. DUrbak

CHECKED - R. DIGIUIIO



LOCAT	CT: IL-53 Imp ON: Barrier W RIG & METHO	rovement /all No. 1	BORING LOG  ILLINOIS DEPARTMENT OF TRANSPORTATION s - Thorndale Avenue to Army Trail Road  rich D-50 w/Hollow Stem Augers		BORING STATIC OFFSE SURF E	Ν: Γ:		
DEPTH	SAMPLE FROM - TO	ELEV.	SOIL DESCRIPTION	REC.	BLOWS/6"	gu	STRAIN	WATE CONTE
7. 2.	0.0-1.0 1.0-2.5	737.9	FILL∵Gr Sand and Gravel w/ Silt, A-1-a	8	Auger 4 3-9			10.2 7.8
	3,5-5.0			17	3 3-4	1,2	15	19.4
	6.0-7.5	100 A	Stiff to Very Stiff Br Clay A-6, trace Gravel	17	3 5-5	2.5	15	17.2
- 10	8.5-10.0	729.9		18	4 6-9	2.5	15	17.7
	11.0-12.5			17	4 5-5	2.1	15	16,8
	13.5-15.0		Very Stiff to Stiff Gr Clay A-6, trace Gravel	18	3 4-5	1.4	15	20.2
	16.0-17.5		The state of the s	17	3 5-7	2.1	15	16,4
20	18.5-20.0	720.4	Boring terminated @ 20'	13	4 6-7	2.3	15	17:5
[wi]	REMARKS Auto	matic Hami	ner Used.				es Calibra	

LOCAT		rovement /all No. 1	ILLINOIS DEPARTMENT OF TRANSPORTATION s - Thorndale Avenue to Army Trail Road rich D-50 w/Hollow Stem Augers		BORING STATIC OFFSE SURF E	N: 3	38+63 27' LT	<b>g.</b>
DEPTH	SAMPLE FROM - TO	ELEV.	SOIL DESCRIPTION	REC.	BLOWS/6"	qu	STRAIN	WATER CONTEN %
	0.0-1.0	736.2	FILL: Gr Sand and Gravel w/ Silt, A-1-a		Auger	110510.10053	1	14.2
5. Li	1.0-2.5		FILL: Br Silty Clay A-7-6, trace Gravel	10	2 3-4 4	(0.5)		19.4
	3.5-5.0	731.4		14	4-3	0.8	15	21.8
21 41	6.0-7.5		Stiff Br Clay A-6, trace Gravel	16	2 2-3	1.2	15	18.1
- 10	8.5-10.0	727.4	का को	17	.3 4-9	2.5	15	17.6
	11.0-12.5			8	3 7-7	(2.0)		16.3
	13.5-15.0		Very Stiff to Stiff Gr Silty Clay A-6, trace Gravel	16	3 5-8	1.9	15	16.5
-,	16.0-17.5			14	3 4-7	1.9	15	17.2
	18.5-20.0	716.9	Boring terminated @ 20'	13	3 4-5	1.2	15	19.4

NOISE WALL - SOIL BORINGS 2 ILLINOIS ROUTE 53 FAU 2578 SECTION 532B-1 DUPAGE COUNTY

PA 497 LIS PATRICK patr

PATRICK ENGINEERING INC. 4970 VARSITY DRIVE LISLE, IL 60532 patrickengineering.com

DRAWN - A. Durbak

CHECKED - R. DiGiulio

DESIGNED - N/A



JOB NO PROJE LOCAT	CT: <b>IL-53 Imp</b> ION: <b>Barrier W</b> S RIG & METHC	2 CLIENT: provement /all No. 2	BORING LOG  ILLINOIS DEPARTMENT OF TRANSPORTATION s - Thorndale Avenue to Army Trail Road  rich D-50 w/Hollow Stem Augers		BORING STATIC OFFSE SURF E	3 NO: N: Γ:	BR2-1 90+72 27' LT 735.7	
DEPTH	SAMPLE FROM - TO	ELEV.	SOIL DESCRIPTION	REC.	BLOWS/6"	qu	STRAIN	WATER CONTEN
	0.0-1.0	734.7	Gr Clay A-7-6 (Topsoil)	2	Auger	************		19.7
	1.0-2.5		FILL: Br to Black Silty Clay A-7-6; trace Sand and Gravel,	13	2 4-4	1.0	15	18.2
	3,5-5.0	729.7	trace Organics	17	4 6-7	2.1	15	27.2
	6.0-7.5	727.7	Hard Gr to Green Silty Clay Loam A-7-6, trace Gravel	15	3 4-7	4.7	15	22.9
- 10	8.5-10.0	725.2	Stiff Br Clay A-4 (7), trace Gravel	16	4 5-8	1.9	15	17.3
	11.0-12.5	722.7	Hard Br Clay A-6, trace Gravel	15	4 4-5	5.0	15	17.5
	13.5-15.0			17	3 7-11	2.5	15	19.5
	16.0-17.5		Very Stiff Br Clay A-6, trace Gravel	18	5 7-10	2.9	15	15,8
- 20	18.5-20.0	715.7		18	3 5-7	2,5	15	16.3
WATER	REMARKS Auto	omatic Hami	merUsed. DURING DRILLING 호 CORESIZE	ĪN.		Penetr	s Calibra ometer E <b>Jan 13,</b>	stimate

LOCATI	CT: <b>IL-53 Impr</b> ON: <b>Barrier W</b> a CRIG & METHOD	ovement III No. 2	ILLINOIS DEPARTMENT OF TRANSPORTATION s - Thorndale Avenue to Army Trail Road rich D-50 w/Hollow Stem Augers		BORING STATIO OFFSE SURF E	N: Γ:	BR2-2 92+06 17' LT 735.9	
DEPTH	SAMPLE FROM - TO	ELEV.	SOIL DESCRIPTION	REC.	BLOWS/6"	qu	STRAIN	WATER CONTEN %
	0.0-1.0	734.9	FILL: Br Sand and Gravel A-1-a		Auger	AL INCOME.		7.3
-	1.0-2.5		FILL; Gr to Black Silty Clay A-7-6; trace Sand and Gravel,	13	11-7	1.4	15	21.1
	3.5-5.0	700 4	trace Organics	15	3 4-6	0.4	15	34.0
	6.0-7.5	729.4 727.9	Stiff Green Sifty Clay Loam A-7-6, trace Gravel	17	3 4-4	1.0	15	30.9
- 10	8.5-10.0			16	7 8-9	2.5	15	17.6
	11,0-12.5		Very Stiff to Hard Br Clay A-6, trace Gravel	17	4 7-11	4.1		17.5
-	13.5-15.0	720.9		18	4 6-10	2.5	15	15.1
	16.0-17.5		Very Stiff Gr Clay A-6, trace Gravel	17	4 7-9	2.5	15	15,2
20	18.5-20.0	715.9	Boring terminated @ 20'	16	4 6-9	2,3	15	17.4
	*							
D	REMARKS Auton	natic Ham	mer Used.				es Calibra ometer E	
							Jan 13,	

NOISE WALL - SOIL BORINGS 3

ILLINOIS ROUTE 53

FAU 2578 SECTION 532B-1

DUPAGE COUNTY

PATRICK patric

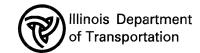
PATRICK ENGINEERING INC. 4970 VARSITY DRIVE LISLE, IL 60532 patrickengineering.com

CHECKED - N/A

DRAWN - A. Durbak

CHECKED - R. DiGiulio

DESIGNED - N/A



JOB NO	T: IL-53 Imp DN: Barrier W RIG & METHO	2 CLIENT: provements /all No. 2	BORING LOG  ILLINOIS DEPARTMENT OF TRANSPORTATION s - Thorndale Avenue to Army Trail Road ich D-50 w/Hollow Stem Augers			T; LEV:	BR2-3 93+34 18' LT 736.6	ř
DEPTH	SAMPLE FROM - TO	ELEV.	SOIL DESCRIPTION	REC.	BLOWS/6"	q _u	STRAIN	WATE CONTE %
	0.0-1.0	735.6	FILL: Br Sand and Gravel A-1-a		Auger			7.2
	1.0-2.5	733.6	FILL: Br to Black Silty Clay A-7-6, trace Gravel, trace Organics	13	3 6-8	2.9	15	19.8
	3.5-5.0	730.6	FILL: Black Organic Clay A-7-6, trace Gravel	11	3 5-8	(2.0)		29.7
. January Company	6.0-7.5	728.6	Stiff Br Clay A-6, trace Gravel	10	3 4-4	1.2	15	24.9
- 10	8.5-10.0		Medium Stiff Br Sandy Clay A-4, trace Gravel	14	3 6-6 7	0.6	15	23.7
	11,0-12.5	723.6	F To the control of t	5	9-10	-		19.8
	13.5-15.0			16	3 4-8	4.0	15	15.5
	16.0-17.5		Hard to Very Stiff Gr Clay A-6, trace Gravel	15	4 5-11	4,1	15	16,3
- 20 -	18.5-20.0	716.6		17	5 7-10	2.5	15	15.5
							-	
	EMARKS Auto			ĨŃ			meter E	stimate
WATER		T. ELEV.	ner Used.  723.6 DURING DRILLING ♀ CORE SIZE  724.2 AT COMPLETION ▼ CASING LENGTH	ÎN. FT.	DATE:	Penetro		stimate 10

	CT: <b>IL-53 Imp</b> ION: <b>Barrier W</b> G RIG & METHC	rovement /all No. 2	ILLINOIS DEPARTMENT OF TRANSPORTATION s - Thorndale Avenue to Army Trail Road rich D-50 w/Hollow Stem Augers		BORING STATIO OFFSE SURF E	N: (	BR2-4 94+76 19' LT 737,8	¢
DEPTH	SAMPLE FROM - TO	ELEV.	SOIL DESCRIPTION	REC.	BLOWS/6"	q _u	STRAIN	WATER CONTEN
	0.0-1.0	736.8	FILL: Br Sand and Gravel A-1-a		Auger			5.0
	1.0-2.5	734.8	FILL: Br to Black Silty Clay A-7-6, trace Sand and Gravel	18	15 10-10	4.5	15	15.6
	3.5-5.0	732.3	Stiff Br Silty Clay A-6, trace Gravel	17	3 6-6	1.7	15	21.3
el e	6.0-7.5			17	4 6-10	4.5	15	18.8
- 10	8.5-10.0	726.8	Hard to Very Stiff Br Clay A-6, trace Gravel	17	7 9-10	2.1	15	13.2
	11.0-12.5			16	4 6-7	2.7	15	17.2
	13 5-15 0		Very Stiff to Stiff Gr Clay A-6, trace Gravel	17	4 5-8	1.7	15	17.7
	16.0-17.5		John Collins of States	16	4 6-9	2,1	15	17,4
20	18.5-20.0	717.8		18	3 5-7	2,1	15	15.7

NOISE WALL - SOIL BORINGS 4
ILLINOIS ROUTE 53
FAU 2578 SECTION 532B-1
DUPAGE COUNTY

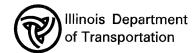
PATR 4970 V LISLE PATRICK patrick

PATRICK ENGINEERING INC. 4970 VARSITY DRIVE LISLE, IL 60532 patrickengineering.com

DESIGNED - N/A
CHECKED - N/A

- A. Durbak

CHECKED - R. DiGiulio



LOCATI	CT: IL-53 Imp ION: Barrier W 3 RIG & METHO	2 CLIENT: provement /all No. 3	BORING LOG  ILLINOIS DEPARTMENT OF TRANSPORTATION s - Thorndale Avenue to Army Trail Road  rich D-50 w/Hollow Stem Augers			3 NO: N: T:		***************************************
DEPTH	SAMPLE FROM - TO	ELEV.	SOIL DESCRIPTION	REC.	BLOWS/6"	q _u	STRAII	WATE CONTE
	0.0-1.0	736.1	FILL: Br Sand and Gravel A-1-a	1	Auger			7.0
	1.0-2.5	734.1	FILL: Br to Black Sifty Clay A-6, trace Gravel, trace Organics	15	9 6-9	4.1	15	21.6
-	3.5-5.0	731.1	FILL: Black Organic Clay A-6, trace Gravel	13	3 5-7	1,7	15	32.9
	6.0-7.5	and the second stable time to	Medium Stiff to Stiff Br Clay A-6, trace Gravel	16	3 3-4	0.8	15	29.8
- 10	8.5-10.0	726.6	THE STATE OF THE S	17	3 4-6	1.4	15	22.2
	11.0-12.5			16	3 6-10	2.5	15	17.8
	13.5-15.0		Very Stiff to Stiff Gr Clay A-6, trace Gravel	17	3 5-9	1.7	15	15.8
	16.0-17.5			17	3 5-7	1,7	15	17.9
_ 20	18.5-20.0	717.1		17	3 4-6	1.2	15	18.5
Ī	REMARKS <b>Auto</b>	matic Hami	ner Used.		-6		es Calibra	

LOCAT		rovement all No. 3	ILLINOIS DEPARTMENT OF TRANSPORTATION s - Thorndale Avenue to Army Trail Road rich D-50 w/Hollow Stem Augers	N TOTAL CONTROL AND THE STATE OF	BORING STATIO OFFSE SURF E	NI: S	BR3-2 90+88 18' RT 735,5	
DEPTH	SAMPLE FROM - TO	ELEV.	SOIL DESCRIPTION	REC.	BLOWS/6"	q _u	STRAIN %	WATER CONTEN
<del>.</del> .	0.0-1.0	734.5	FILL: Br Sand and Gravel A-1-a	- total	Auger			7.7
 -:	1.0-2.5	732.5	FILL: Br Silty Clay A-6, trace Sand and Gravel	14	5 9-9	4.1	15	15.4
	3.5-5.0	729.5	FILL: Br to Black Silty Clay A-6, trace Sand and Gravel	16	4 5-7	2.9	15	20.7
	6.0-7.5	727.5	FILL: Black Organic Clay A-6, trace Gravel	12	3 5-5	(2.5)		32.9
- 10	8.5-10.0	725.0	Stiff Green Silty Clay A-6; trace Gravel	14	3 2-3	1.7	15	25.3
**	11.0-12.5		Stiff Br Clay A-6, trace Gravel	16	3 3-5	1,7	15	21.5
7	13.5-15.0	719.5		17	4 5-8	1.4	15	17.4
	16.0-17.5		Very Stiff Gr Clay A-6, trace Gravel	16	4 7-10	3.3	15	15,5
_ 20	18.5-20.0	715.5	Boring terminated @ 20'	17	7 7-9	2.5	15	13,6
WATER	REMARKS Auto	matic Hamı	mer Used. DURING DRILLING ▽ CORE SIZE	ÎN.	OATE:	Penetro	s Calibrat ometer Es	timate

NOISE WALL - SOIL BORINGS 5 ILLINOIS ROUTE 53 FAU 2578 SECTION 532B-1 DUPAGE COUNTY

PATE 4970
LISLE PATEICK patric

PATRICK ENGINEERING INC. 4970 VARSITY DRIVE LISLE, IL 60532 patrickengineering.com SHEET NO. S17 OF S25 F.A.P RTE. SECTION COUNTY TOTAL SHEETS NO. 2578 532B DUPAGE 781 596

CONTRACT NO. 60477

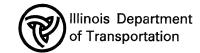
12/3/2010 ILLINOIS FED. AID PROJECT

CHECKED - N/A

DRAWN - A. Durbak

CHECKED - R. DiGiulio

DESIGNED - N/A



LOCAT	CT: <b>IL-53 imp</b> ON: <b>Barrier W</b> 3 RIG & METHO	2 CLIENT: rovement all No. 3	BORING LOG  ILLINOIS DEPARTMENT OF TRANSPORTATION s - Thorndale Avenue to Army Trail Road  ich D-50 w/Hollow Stem Augers			S NO: N: T:	O, ILL BR3-3 93+07 20' RT 736.5	j
DEPTH	SAMPLE FROM - TO	ELEV.	SOIL DESCRIPTION	REC.	BLOWS/6"	qu	STRAIN	WATE CONTEI %
	0.0-1.0	735.5	FILL: Br Sand and Gravel A-1-a		Auger			8.3
-	1.0-2.5	733.5	FILL: Green to Black Silty Clay A-6, trace Gravel	14	6 6-7	3.7	15	21.1
	3.5-5.0	730.5	FILL; Black Organic Clay A-6	13	4 6-8	1,2	15	17.1
	6.0-7.5		Medium Stiff to Stiff Br Clay A-6, trace Gravel	15.	4 6-5	0.8	15.	19.9
10	8.5-10.0	726.0		17	4 4-5	1.7	15	20.6
	11.0-12.5			17	5 2-14	4.1	15	17.3
-	13.5-15.0		Hard to Very Stiff Gr Clay A-6, trace Gravel	17	4 7-10	2.7	15	15.8
	16.0-17.5			16	4 6-9	2.5	15	16.8
_ 20	18.5-20.0	716.5		16	4 5-9	2,5	15	16.7

LOCATI		orovement /all No. 3	ILLINOIS DEPARTMENT OF TRANSPORTATION ts - Thorndale Avenue to Army Trail Road rich D-50 w/Hollow Stem Augers		STATIC OFFSE SURF E	N: T	BR3-4 94+68 21' RT 737.1	
DEPTH	SAMPLE FROM - TO	ELEV.	SOIL DESCRIPTION	REC.	BLOWS/6"	q _u	STRAIN	WATER CONTEN %
	0.0-1.0	736.1	FILL: Br Sand and Gravel A-1-a		Auger			7.2
-	1.0-2.5	734.1	FILL: Br Clay A-6, trace Gravel	1.4	15 8-8	(3.5)		18.3
±:	3 5-5 0		FILL: Black Organic Clay A-6, little Sand	15	3 4-3 3	1.2	15	19:1
-	6.0-7.5	729.1		6	3-3	1,2	15.	24.4
_ 10	8.5-10.0			10	3 7-9	1.2	15	17.5
*·	11.0-12.5			17	4 5-8	2.5	15	17.3
	13.5-15.0		Stiff to Very Stiff Br to Gr Silty Clay A-6, trace Gravel	17	4 6-10	1.2	15	15.1
	16.0-17.5			16	5 8-9	1.2	15	17,4
	18.5-20.0	717,1	Boring terminated @ 20'	17	4 6-9	2.1	15	15,4
						-		

NOISE WALL - SOIL BORINGS 6
ILLINOIS ROUTE 53
FAU 2578 SECTION 532B-1
DUPAGE COUNTY

PATRICK patrick

PATRICK ENGINEERING INC. 4970 VARSITY DRIVE LISLE, IL 60532 patrickengineering.com

SHEET NO.	F.A.P RTE.	SECTION		COUNTY	TOTAL SHEETS	SHEE NO.
	2578	532B		DUPAGE	781	597
S18 OF S25				CONTRACT	NO. 60	)477
	12	/3/2010 III INOIS	FED A	ID PROJECT		

DESIGNED - N/A



CT: IL-53 Imj ION: Barrier V 3 RIG & METHO	∌rovemen Vall No. 4	BORING LOG  ILLINOIS DEPARTMENT OF TRANSPORTATION ts - Thorndale Avenue to Army Trail Road  Irich D-50 w/Hollow Stem Augers		BORINI STATIC OFFSE SURF E	3 NO: IN: T:	BR4-1 172+23 33' LT 695.8	
FROM - TO	ELEV.	SOIL DESCRIPTION	REC	BLOWS/6"	q _u	STRAI	WATER CONTEN
0.0-1.0	694.9	FILL: Black Organic Clay A-7-6	_	Auger		T T	38.8
1.0-2.5	- Andrews		12	3 4-4	2.8	15	16.2
3.5-5.0	C. April Monte State and Systems	FILL: Br to Gr Clay A-6, trace Gravel and Organics	16	5.4	(1.5)	Access of the second	10.7
6.0-7.5	_ 687.8 _		13	3 3-5	(1.5)		28.7
8.5-10.0		Stiff to Very Stiff Br to Gr Clay A-6, trace Gravel	16	3 2-5	1.2	15	27.1
11.0-12.5	682.6_		16	3 4-5	3.1	15	20,8
13.5-15.0	_ 680.3_	Hard Gr Clay Leam A-6, trace Gravel	13	3 6-8	4.2	15	11.6
16.0-17.5			13	3 4-7	2.7	15	16.4
18.5-20.0			13	3 5-5	3.5	15	17.3
21.0-22.5		Very Stiff to Stiff Gr Clay A-6, trace Gravel	15	3 4-6	1.7	15	18.0
23.5-25.0			14	3 4-6	2.3	15	17.0
26.0-27.5	3		37	4 4-6	1.7	15	16,6
28.5-30 O	665.8		14	3 4:7	2.9	15	17.8
Pularies A				and the second second	<del>Č</del>	ంచికు చేస్తా	
		PMD   10   10   10   10   10   10   10   1					
	ON: Barrier V O RIG & METHO SAMPLE FROM - TO 0.0-1.0 1.0-2.5 3.5-5.0 6.0-7.5 8.5-10.0 11.0-12.5 13.5-15.0 16.0-17.5 18.5-20.0 21.0-22.5 23.5-25.0 26.0-27.5 28.5-30.0	ON: Barrier Wall No. 4 3 RIG & METHOD: Disc SAMPLE FROM - TO 0.0-1.0 694.9 1.0-2.5 3.5-5.0 6.0-7.5 687.8 8.5-10.0 11.0-12.5 682.6 13.5-15.0 880.3 16.0-17.5 18.5-20.0 21.0-22.5 23.5-25.0 26.0-27.5 3.5-30.0 666.8	ON: Barrier Wall  SRIG & METHOD: Diedrich D-50 w/Hollow Stem Augers  SAMPLE FROM- TO ELEV SO/L DESCRIPTION  0.0-1.0 694.9 FIL. Black Organic Clay A-7-6  1.0-2.5 3.5-6.0 FILL; Br to Gr Clay A-6, trace Gravel and Organics.  6.0-7.5 687.8 8.5-10.0 Stiff to Very Stiff Br to Gr Clay A-6, trace Gravel  11.0-12.5	ON: Barrier Wall No. 4   SOIL DESCRIPTION   REC.	OR: Barrier Wall No. 4  2 RIG & METHOD: Diedrich D-50 w/Hollow Stern Augers  SAMPLE FROM. TO  0.0-1.0 694.9 Fill: Black Organic Clay A-7-6  1.0-2.5	Col.   Barrier Wall No. 4   SURFELEV   SUR	Common

JOB NO PROJE LOCAT BORING	CT: IL-53 lmp ON: Barrier V	2 GLIENT: Irovement /all No. 4	BORING LOG  ILLINOIS DEPARTMENT OF TRANSPORTATION is - Thorndale Avenue to Army Trail Road rich D-50 w/Hollow Stem Augers			G NO DNL T;	BR4-  174+38 26' LT 697.4	İ
DEPTH	FROM - TO	ELEV.	SOIL DESCRIPTION	REG.	BLOWSIE	G.	STRAI	CONTE
	0.0-1.0	696,4	Sand A-1-a (Gravet Shoulder)		Auger	T	l	5.3
	1.0-2.5	* Pleasand and a second		12	4-7	(4.5+)		11.0
- 1	3.5-6.0			10	2 2-3	medic subtraction		26.4
	6.0-7.5		FiLL: Gr to Black Sitty Clay A-7-6, trace Gravel and Organics	14	3 5-7	0.7	15.	31.4
- 10	8.5-10.0	The second secon		34	3 4-4	1.7	15	24.7
	11.0-12.5	684.4		14	3 4-6	1.9	15	28.7
-	13.5-15.0			16	3 6-9	5.6	15	17.4
	16.0-17.5		Hard to Very Stiff Br to Gr Clay A-S, trace Gravel	12	4 6-9	3,2	15	15.5
- 20	18.5-20.0	_9774_		3	4 5-6	(3.5)		14.0
*	21.0-22.5		i i i i i i i i i i i i i i i i i i i	18	3 5-6	1,5	15	18,6
The second second	23.5-25.0		Stiff Gr Clay A-6, trace Gravel	15	3 5-5	1,4	15	14.3
	26.0-27.5	Total Control of the		<b>∌4</b>	5 5-6	(1.3)		17.9
- 30  -	28.5-30.0	667.4		16	3 4-5	1.8	15	18.4
			Boring terminated @ 30*					
gerann						i o		All the state of t
	EMARKS Autor	natic Hamn	ner Used.	and the second			Celibrate	
WATER WATER WATER	DRY FT	ELEV. ELEV. ELEV	DURING DRILLING ♥ CORESIZE AT COMPLETION ▼ CASING LENGTH AFTER HRS. ▼ CASING DIAMETER		DATE: DRILLER	M	ar 29, 1 dimon	-

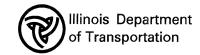
ENGINEERING

DESIGNED - N/A CHECKED N/A DRAWN - A. Durbak PATRI 4970 \ LISLE

			<u>æ</u>	FAU 25	INO 78	IS ROUTE SECTION GE COUNTY	<u>53</u> 532B-1	
PATRICK ENGINEERING INC.	SHEET NO.	F.A.P RTE.	SEC	TION		COUNTY	TOTAL SHEETS	SHEE NO.
4970 VARSITY DRIVE		2578	53:	2B		DUPAGE	781	598
LISLE, IL 60532  PATRICK patrickengineering.com	S19 OF S25					CONTRACT	NO. 60	477
ENGINEERING		12/	/3/2010	ILLINOIS FE	D. AI	D PROJECT		

NOISE WALL - SOIL BORINGS 7

CHECKED - R. DiGiulio



JOB NO PROJE LOCAT	CT: IL-53 Imp ION: Barrier V G RIG & METHO	2 CLIENT: rovement (all No. 4	C, BORING LOG  ***LLINOIS DEPARTMENT OF TRANSPORTATION is - Thorndale Avenue to Army Trail Road rich D-50 w/Hollow Stem Augers		BORING STATIO OFFSE SURF E	3 NO: N: T: LEV:	175+69 13' LT 699,2	.3
DEPTH	SAMPLE FROM-TO	ELEV.	SOIL DESCRIPTION	REC.	BLOWS/6"	q _e	STRAM	WATER CONTER
	0.0-1.0	698.4	8" Bituminous Concrete \2" Sand A-1-a	A	Auger			
	1.0-2.5	The state of the s	12 3/01 to 7 17 17 18	15	3 2-4	(1.8)		18.9
	3.5-5.0	meninga (inches).	Co. Company of the Co.	15	2 3-4	1,7	15	23.5
*	6.0-7.5		FILL: Black to Gr Clay A-6, trace Gravel and little Organics	13	2 4-8	(3.0)		27.8
10	6.5-16.0		The state of the s	15	2 4-5	1.2	15	24,1
•	11.0-12.5	686.2		12	3 3-6	(2.5)		40.9
et et en	13.5-15.0	683.2	Very Stiff Br to Gr Clay A-6, trace Gravel	13	3 2-4	2.0	16	18.0
	16.0-17.5		Medium Stiff Br to Gr Sandy Cley A-S, trace Gravei	18	0 1-1	(0.8)	The second secon	27.B
~ 20	18.5-20.9	680.2	Supergramman street street of \$1000 to	12	7 2-3	(0.5)		36.9
W	21.0-22.5	676.3	Loose to Very Loose Gr Sand A-3, title Gravel	18	1 1-2	Province of the control of the contr		20.5
	23.5-25.0		Stiff Br to Gr Sencty Clay A-6, trace Gravel	18	2 1-2	(t.0)	Para Carlo	17.8
Post Post	26.0-27.5	671.2	the property of the state of th	18	1 2-3	(1.3)		20.7
30	28.5-30.0		and the second formation of the second of th	18	3 2-5		United States	21.9
	31,0-32,6	Constitution of the Consti	Loose to Medium Dense Gr Sand A-3, trille Gravel, trace Clay	18	2 4-B			15.1
	33.5-35.0	684.2	Bocitig terminated @ 35	18	5 6-9		<u></u>	13.0
			Sacrement Control of Sec.					
	BEMARKS Auto	matic Han	nmer Used.		Ţ(		ss Calibra oneder E	
WATER WATER WATER	₹ 11.5∦	T. ELEV.	683.2 DURING DRILLING A CORE SIZE 687.7 AT COMPLETION X CASING LENGTH	IN. FT	DATE: DRILLER	***************************************	Mar 29, Shlimo	10

CATIC		rovement /all No. 4	BORING LOG ILLINOIS DEPARTMENT OF TRANSPORTATION s - Thorndale Avenue to Army Trail Road ich D-50 w/Hollow Stem Augers		BORING STATIO OFFSE SURF E	N: T:	176+71 15' LT 700,2	
TH	SAMPLE FROM - TO	ELEV.	SOIL DESCRIPTION	REC.	BLOWS/6"	q _{tt}	ŞTRAII %	WATER CONTENT
- July many British	0.0-1.0	099,4	8" Bituminous Concrete	8 7 1	Auger			
	1,0-2.5		\2" Sand A-1-8	10	3-4	(3.5)		14.3
Programme	3.5-5.0			15	3 3-4	17	15	18.5
	6.0-7.5		FILL: Br to Gr Clay A-6, trace Gravel and Organics	10	2 2-3	0.5	15	19.1
10	8,5-10.0		*	12	3 3-4	1.3	15	25.3
r all	11.0-12,5	087.2		6	2 2-2	(0.8)		24.9
	13.5-15.0	684.7	Vory Stiff 8r Clay A-6, trace Gravel	17	3 4-5	2.5	15	23.8
	16.0-17.5	1		12	1 24	(0.3)		19.2
20	18.5-20.0	ema	Soft to Medium Stiff Gr Sandy Clay A-4, trace Gravel	15	4 5-7	(0.6)	- Andrewskie de Lander	20,0
	21,0-22,5	_6792_		18	3 6-10			20.2
*: //pikelbi.com/d/diffia	23,5-25.0		Medium Denige Fine Sand A.C. trace Gravel	18	5 5-8			19.7
	26.0-27.5		6" Clay Seam @ 26.5" (Herd Gr Clay A-6)	18	5 8-11	3.8	15	17.8
30	28.5-30.0	_870.2_		18	5 6-8		accipies and a second	19.9
	31.0-32.5		Very Sliff to Sliff Gr Clay A-6, little Grave!	14	4 5-9	2.3	15	19.6
	33,5-35.D	665.2		18	5 6-10	1.4	15	13.4
			Boring terminated @ 35"		er en		er en	
L	EMARKS Auto	matic Ham	mer Used.	ندات	(1)		s Calibra ometer E	
TER TER TER	12.5 F	T. ELEV. T. ELEV. T. ELEV.	683.2 DURING DRILLING ▼ CORE SIZE 687.7 AT COMPLETION ▼ CASING LENGTH AFTER HRS. ▼ CASING DIAMETER		DATE: DRILLEI INSPEC	e i	Mar 29, Shiimo Alsafan	n

NOISE WALL - SOIL BORINGS 8
ILLINOIS ROUTE 53
FAU 2578 SECTION 532B-1
DUPAGE COUNTY

DESIGNED - N/A

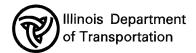
CHECKED - N/A

DRAWN - A. Durbak

CHECKED - R. DiGiulio

	PATRICK ENGINEERING INC.
	4970 VARSITY DRIVE
	LISLE, IL 60532
PATRICK	patrickengineering.com
ENGINEERIN	g

SHEET NO.	F.A.P RTE.	SECTION			COUNTY	TOTAL SHEETS	SHEET NO.
	2578	532B			DUPAGE	781	599
S20 OF S25					CONTRACT	NO. 60	)477
	12,	/3/2010	ILLINOIS	FED. A	AID PROJECT		



BLOOM COMPANIES, LLC.  BORING LOG  JOB NO: BM3-1272 CLIENT: ILLINOIS DEPARTMENT OF TRANSPORTATION PROJECT: IL-53 Improvements - Thorndale Avenue to Army Trail Road  LOCATION: Barrier Wall No. 4  BORING RIG & METHOD: Diedrich D-50 withollow Stem Augers  SAMPLE					CHICA( BORING NO: STATION: OFFSET: SURF ELEV:			177+69 22' LT 701.1	
EPTH	FROM - TO	ELEV.	SOIL DESCRIPTION	REC.	BLOWS/6*	qu	STRAM	WATER	
	0.0-1.0	700.1	Sand A-1-e (Gravel Shoulder)	1	Auger		1	1.8	
to the second	1.0-2.5	_6981_	FILL: Gr to Black Silty Clay A-7-6, trace Gravel and Organics	12	3 5-6			24.8	
777000	3.5-5.0	TO THE REAL PROPERTY OF THE PERSON NAMED IN COLUMN 1	Medium Stiff to Stiff Br to Gr Clay A-6, trace Gravel	10	3 4-4	0.9	15	20.1	
1	6.0-7.5	693,1		13	3 3-3	(1.3)	To company the second	20.2	
10	6.5-10.0	_690,6_5	Loose Br Sand A-3, trace Gravel	16	3 3-4			19.0	
	11.0-12.5			15	5 5-7	2.3	15	17.4	
	13.5-15.0			15	3 5-6	25	15	16.4	
The Control of the Co	16.0-17.5		Very Stiff Gr Cley A-6, trace Gravel	15	3 5-7	2.3	15	19.1	
20	18.5-20.0	Water and the second		5	4 5-7	2.0	15	18.9	
Months Co. Life.	21.0-22.5	.979.1		18	3 4-6			14.2	
	23.5-25.0	675.6	Medium Dense Gr Fine Sand A-3, trace Grave!	12	4 5.8			15.3	
	26.0-27.5		Very Stiff Gr Clay Loam A-6, trace Gravel	18	5 16-6	(2.8)		12.3	
Cardinos Cardinos	28.5-80.0	671.1	*·		3		-3/3/2		
30 └	**************************************	No (1.6	Boring terminated @ 30	_18_	4-6	2.6	15	12.4	
Ţ,	EMARKS Autor	matic Harring	ner liced						
		Practice and the					Calibrate neter Esp		
TER TER		r, elev. r. elev,	691.1 DURING DRILLING ₹ CORE SIZE  AT COMPLETION ▼ CASING LENGTH  691.1 AFTER 2 HRS. ▼ CASING DIAMETER		DATE: DRILLER:	M	ar 29, 1 ilimon	0	

DESIGNED - N/A

CHECKED - N/A

DRAWN - A. DUrbak

CHECKED - R. DIGIUlio

NOISE WALL - SOIL BORINGS 9
ILLINOIS ROUTE 53
FAU 2578 SECTION 532B-1
DUPAGE COUNTY

PATH 4970 LISL PATHICK patrio

PATRICK ENGINEERING INC.
4970 VARSITY DRIVE
LISLE, IL 60532
patrickengineering.com

F.A.P RTE. SECTION COUNTY TOTAL SHEETS NO.
2578 532B DUPAGE 781 600

CONTRACT NO. 60477

12/3/2010 ILLINOIS FED. AID PROJECT