FOR UNDERGROUND UTILITY LOCATIONS CALL 48 HOURS BEFORE YOU DIG

(EXCLUDING SATURDAY, ŠUNDAY AND HOLIDAYŠ)

HOFFMAN ESTATES PUBLIC WORKS DEPT. (847)490--6800

1-800-892-0123



STATE OF ILLINOIS

DEPARTMENT OF TRANSPORTATION **DIVISION OF HIGHWAYS**

PLANS FOR PROPOSED FEDERAL AID PROJECT

FAP ROUTE 339 ILL RTE 62 (ALGONQUIN ROAD)

WINSTON DRIVE TO ELA ROAD

SIDEWALK IMPROVEMENTS

PROJECT NO. CMF - 0339(023)SECTION NO. 02-00073-00-SW

JOB NO. C-91-152-06

VILLAGE OF HOFFMAN ESTATES COOK COUNTY

PALATINE TOWNSHIP 42, RANGE 10

INDEX OF SHEETS

- TITLE SHEET
- SUMMARY OF QUANTITIES
- DETAIL SHEET
- PLAN AND PROFILE
- STRIPING PLAN
- 10 TRAFFIC SIGNALS
- 11 CABLE PLAN
- 12-16 CROSS SECTIONS

17 - 20TRAFFIC SIGNAL DESIGN DETAILS

ILLINOIS DEPARTMENT OF TRANSPORTATION STANDARD DRAWINGS

000001-04, STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS 424001-04CURB RAMPS FOR SIDEWALKS 606001-02 CONCRETE CURB AND COMBINATION CONCRETE CURB & GUTTER

701006-62 OFF-ROAD OPERATIONS, 2L. 2W. 15' TO 24" FROM PAVEMENT EDGE 701011-01 OFF-ROAD MOVING OPERATIONS, 2L, 2W, DAY ONLY

701101-01 OFF-ROAD OPERATIONS, MULTILANE, 15' TO 24" FROM PAVEMENT EDGE 701301-02 LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS

701606-04 URBAN LANE CLOSURE, MULTILANE, 2W WITH MOUNTABLE MEDIAN 701701-04URBAN LANE CLOSURE, MULTILANE INTERSECTION

702001-06TRAFFIC CONTROL DEVICES 814001 CONCRETE HANDHOLES

880006 TRAFFIC SIGNAL MOUNTING DETAILS

NTS PROJECT ENDS ELA STA 5+25 ALGONQUIN **PROJECT PROJECT** LOCATION STA 698+00 ELA STA 0+00

PALATINE TOWNSHIP 42, RANGE 10

LOCATION MAP

GROSS LENGTH = 2,040 LIN. FT. (0.386 MILES) NET LENGTH = 1,880 LIN. FT. (0.356 MILE)

SCALE: NTS

ALGONQUIN ROAD

SPEED LIMIT: 45 MPH

ADT = 28,700

LOCATION OF SECTION INDICATED THUS: -

COOK

20

SECTION

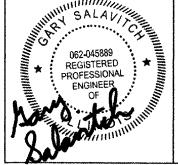
PROJECT NO. CMF-0339(023)

339 02-00073-00-SW

CONTRACT NO. 83836

SHEET

PASSED BUREAU CHIEF OF LOCAL ROADS AND STREETS 2006 STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION



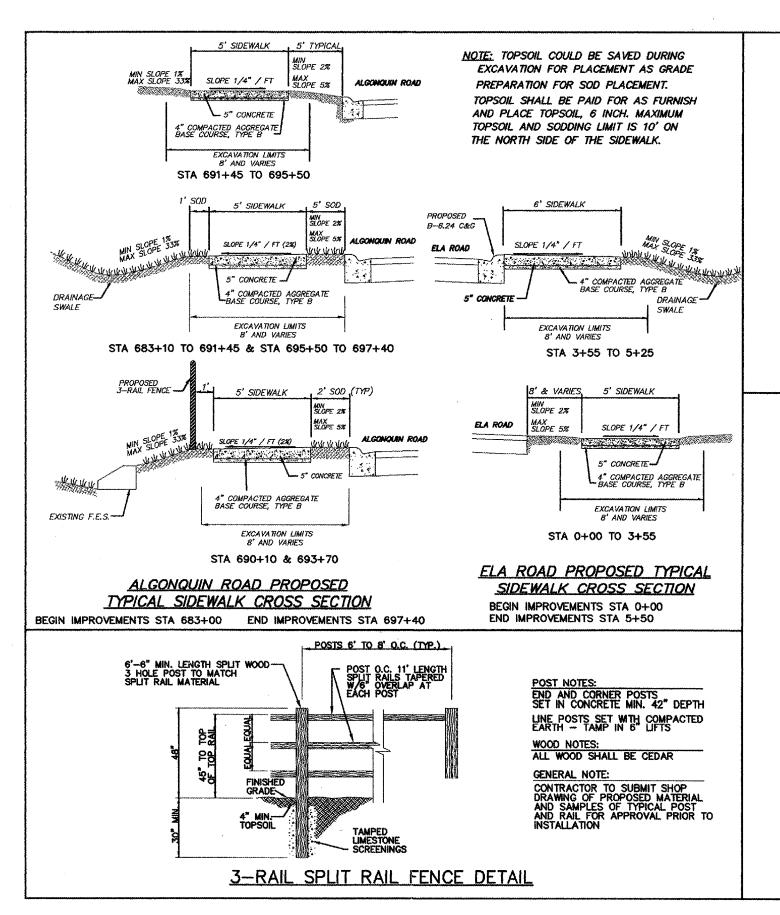
GARY SALAVITCH LIC. NO. 062 - 045889 LIC. EXP. 11-30-06

CONTRACT NO. 83836

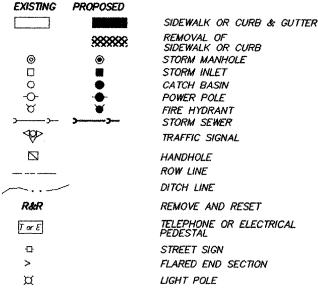
	SUMMARY OF QUANTIT	<u>TES</u>		
CODE NO.	ITEM	UNIT	QUANTITY	CONSTRUCTION TYPE CODE SFTY 1B
20100110	TREE REMOVAL (6 TO 15 UNITS DIAMETER)	UNIT	12	12
20200100	EARTH EXCAVATION	CY	215	215
21101625	TOPSOIL FURNISH AND PLACE, 6"	SY	2140	2140
25000400	NITROGEN FERTILIZER NUTRIENT	LB	40	40
25000500	PHOSPOROUS FERTILIZER NUTRIENT	LB	40	40
25000600	POTASSIUM FERTILIZER NUTRIENT	LB	40	40
25200110	SODDING, SALT TOLERANT	SY	2140	2140
25200200	SUPPLEMENTAL WATERING	UNIT	3	3
35101600	AGGREGATE BASE COURSE, TYPE B 4"	SY	1150	1150
42400200	PORTLAND CEMENT CONCRETE SIDEWALK, 5"	SF	9750	9750
42400800	DETECTABLE WARNINGS	SF	20	20
44000500	COMBINATION CURB AND GUTTER REMOVAL	FT	50	50
44213200	SAW CUTS	FT	65	65
60260100	INLETS TO BE ADJUSTED	EACH	8	8
60605100	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24			
	(ABUTTING EXISTING PAVEMENT)	FT	350	350
67100100	MOBILIZATION	LUMP SUM	1	1
70102625	TRAFFIC CONTROL AND PROTECTION, STANDARD 701606	LUMP SUM	1	1
70102635	TRAFFIC CONTROL AND PROTECTION, STANDARD 701701	LUMP SUM	1	1
* 78000600	THERMOPLASTIC PAVEMENT MARKING LINE, 12"	FT	165	165
★ 81000700	CONDUIT IN TRENCH, 2 1/2" DIA., GALVANIZED STEEL	FT	25	25
* 85000200	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1	1
* 87301215	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14, 2/C	FT	405	405
★ 87301225	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14, 3/C	FT	405	405
* 87502480	TRAFFIC SIGNAL POST, GALVANIZED STEEL, 14 FT	EACH	2	2
* 87800100	CONCRETE FOUNDATION, TYPE A	FT	8	8
* 87900200	DRILL EXISTING HANDHOLE	EACH	2	2
* 88800100	PEDESTRIAN PUSH BUTTON	EACH	2	2
* 89502200	MODIFY EXISTING CONTROLLER	EACH	1	1
X2010505	CLEARING, SPECIAL	LUMP SUM	1	. 1
★ X8810610	PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED	EACH	6	6
Z0051500	REMOVING AND RESETTING STREET SIGNS	EACH	4	4
Z0077900	WOOD POST AND RAIL FENCE	FT	80	80
XX005314	BITUMINOUS DRIVEWAY REMOVAL	SY	20	20

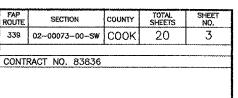
ALGONQUIN RD. SIE	EWALK IMPROVEMENTS
HORIZ. SCALE: NONE	FILE NAME 2 OF 20 SUMQUANT.DWG SHEET NO.
SUMMARY O	F QUANTITIES
CONTRACT NO. 8383	3

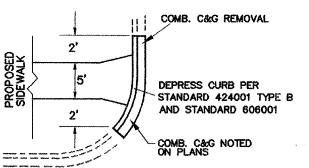
* SPECIALTY ITEMS











PROPOSED DEPRESSED CURB & GUTTER EXIST. CURB & GUTTER NOT DEPRESSED

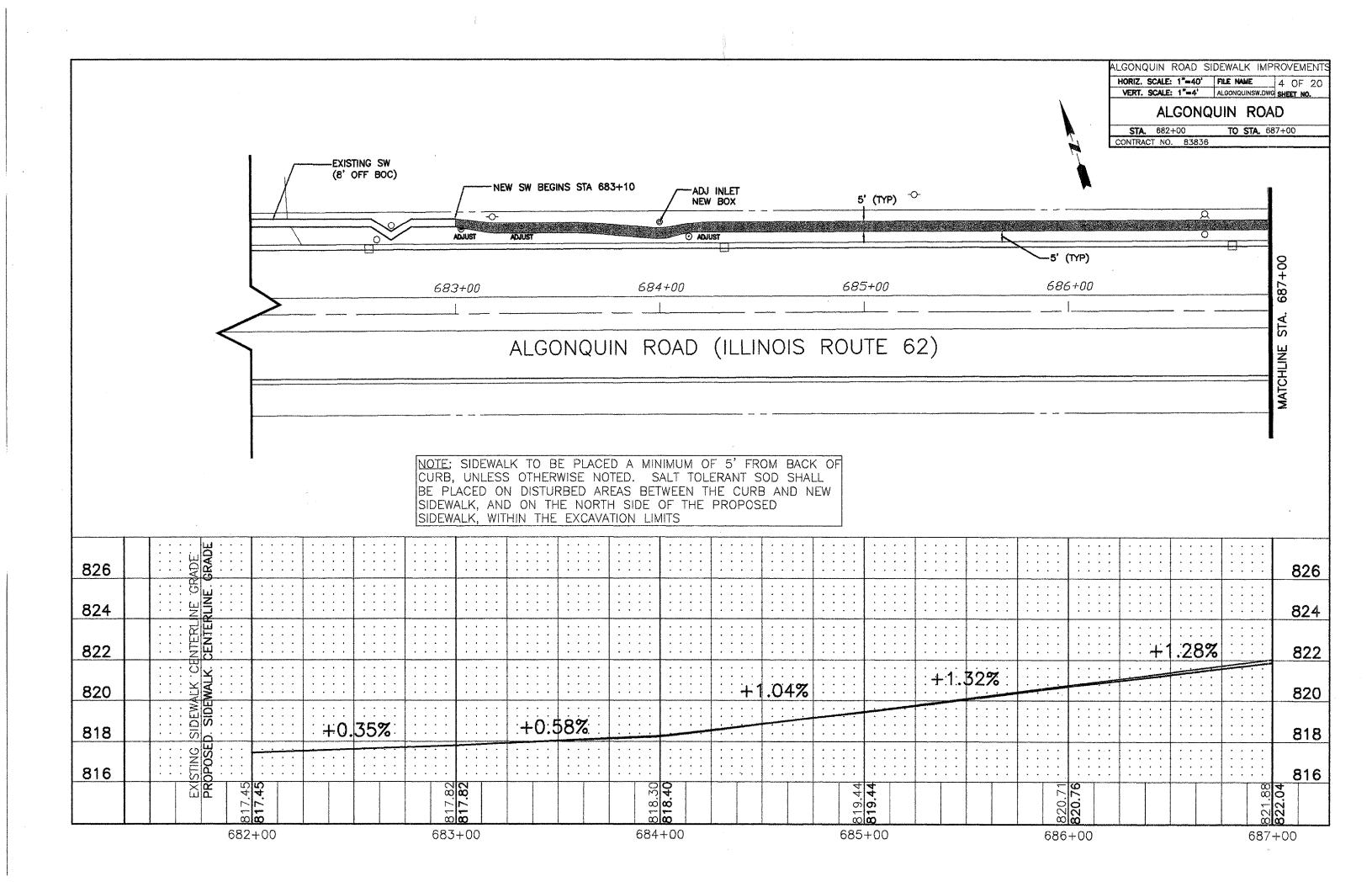
GENERAL NOTES

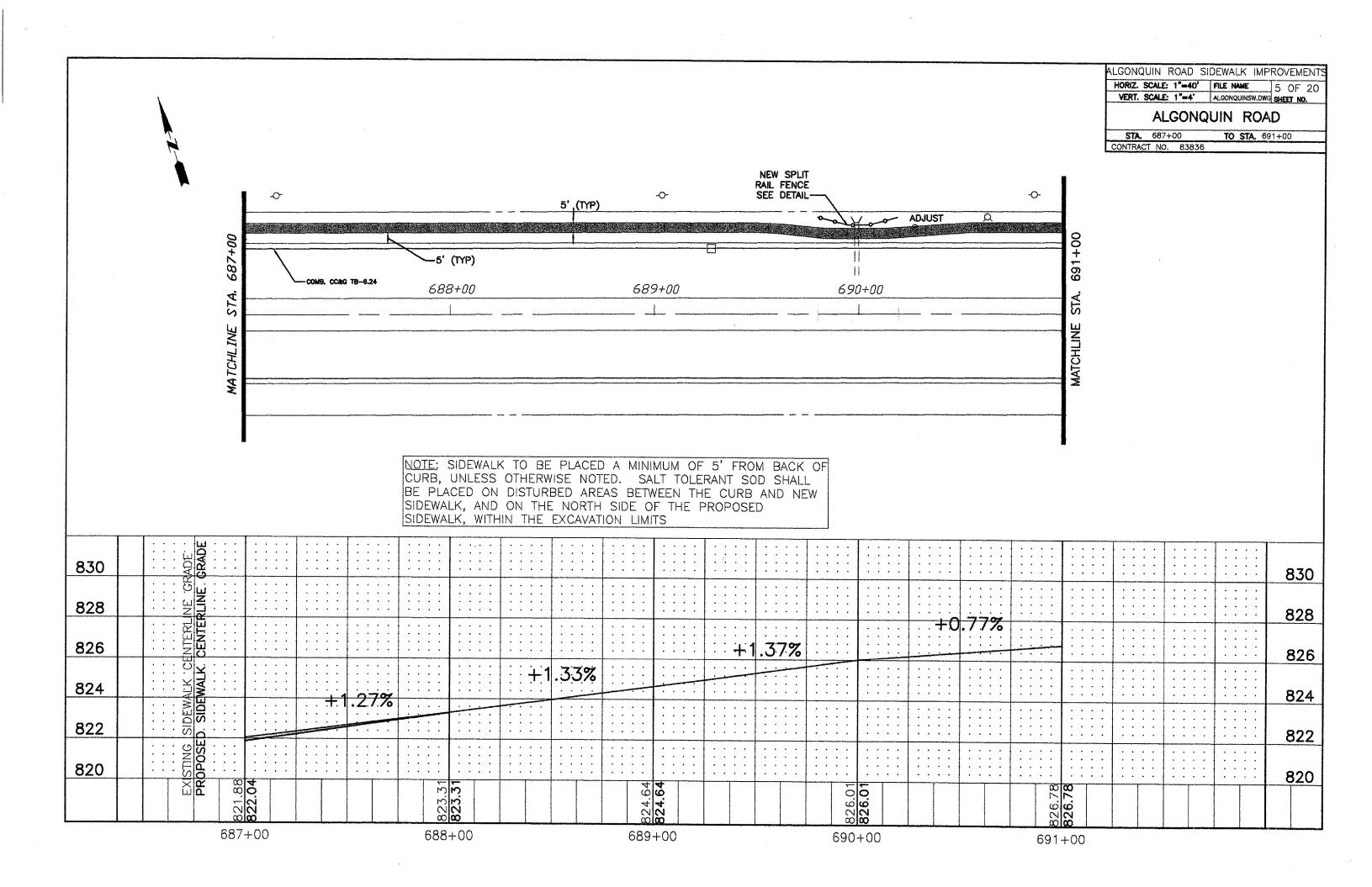
- 1. ITEMS OF WORK LISTED IN THE SUMMARY OF QUANTITIES WHICH ARE NOT SPECIFICALLY INDICATED IN THE PLANS SHALL BE PERFORMED AT LOCATIONS AS DIRECTED BY THE ENGINEER.
- 2. THE VILLAGE SHALL NOT ASSUME ANY OF THE RESPONSIBILITIES OF THE CONTRACTOR'S SUPERINTENDENT OR OF SUBCONTRACTORS.
- 3. THE LOCATION OF PUBLIC AND PRIVATE

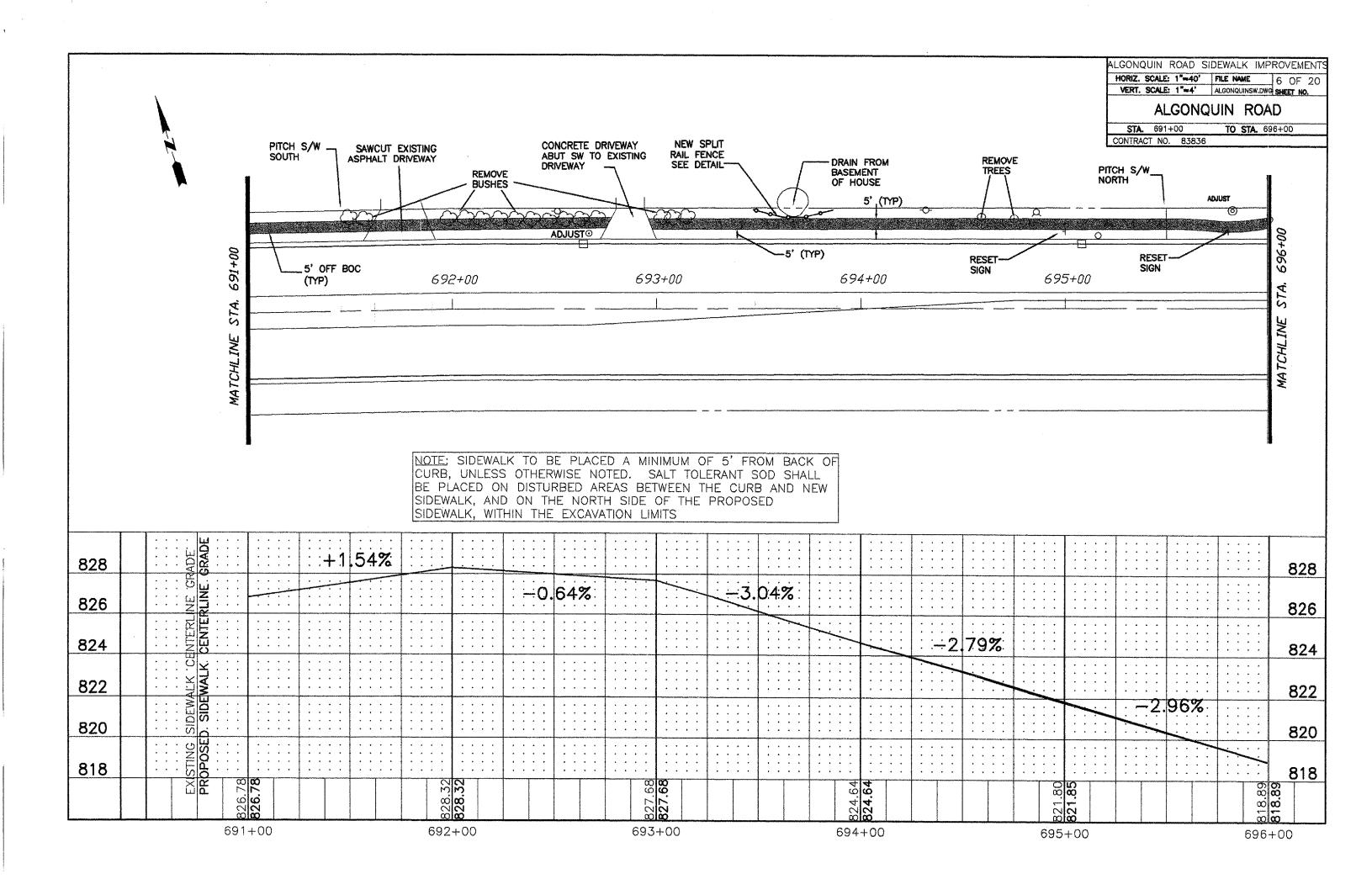
 UTILITIES SHOWN ON THE PLANS ARE APPROXIMATE
 AND THEIR ACCURACY IS NOT GUARANTEED. THE

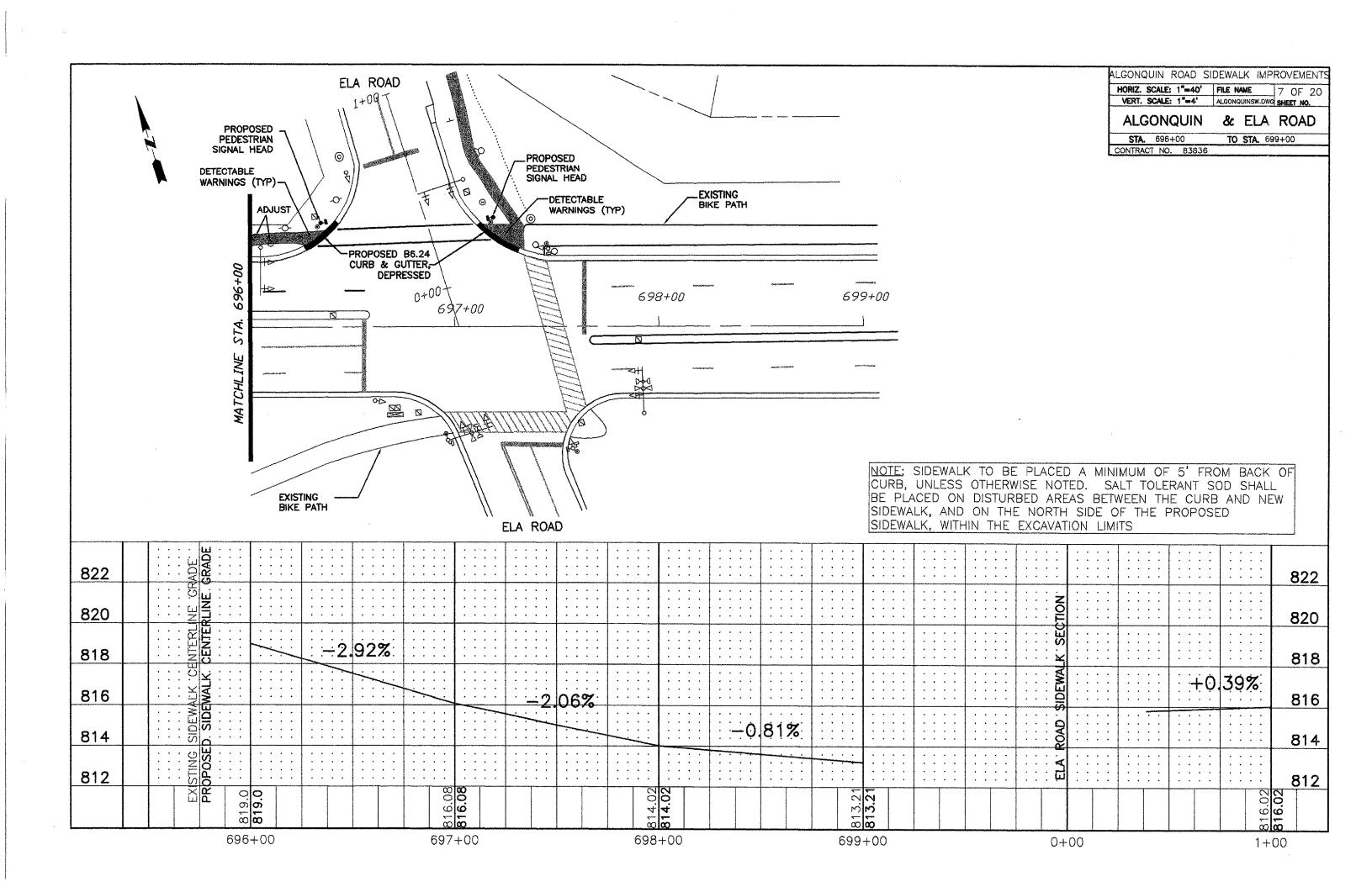
 CONTRACTOR SHALL VERIFY THE EXACT LOCATION
 AND ELEVATION OF ALL UTILITIES. THE CONTRACTOR
 SHALL REPORT ANY ENCOUNTERED DISCREPENCIES
 TO THE ENGINEER AT ONCE. THE CONTRACTOR
 SHALL TAKE DUE CARE IN ALL PHASES OF THE
 CONSTRUCTION TO PROTECT ANY UTILITIES WHICH
 MAY BE AFFECTED BY THE WORK. ANY DAMAGE TO
 EXISTING UTILITIES SHALL BE REPAIRED AT THE
 CONTRACTOR'S EXPENSE. FOR UNDERGROUND
 UTILITY LOCATIONS, CALL 48 HOURS BEFORE DIGGING,
 (EXCLUDING SATURDAY, SUNDAY & HOLIDAYS)
 J.U.L.I.E. 1—800—692—0123.
- 4. THE PROPOSED PROFILE WILL MATCH EXISTING ON ALL SHEETS UNLESS OTHERWISE NOTED.
- 5. THE VILLAGE OF HOFFMAN ESTATES WILL BE PROVIDING CONSTRUCTION LAYOUT AND STAKING OF THE PROPOSED SIDEWALKS. THE SIDEWALK LOCATIONS ARE ESSENTIALLY FOLLOWING AN ESTABLISHED FOOT PATH, VARIATIONS IN THE PATH ARE SHOWN ON THE PLANS.

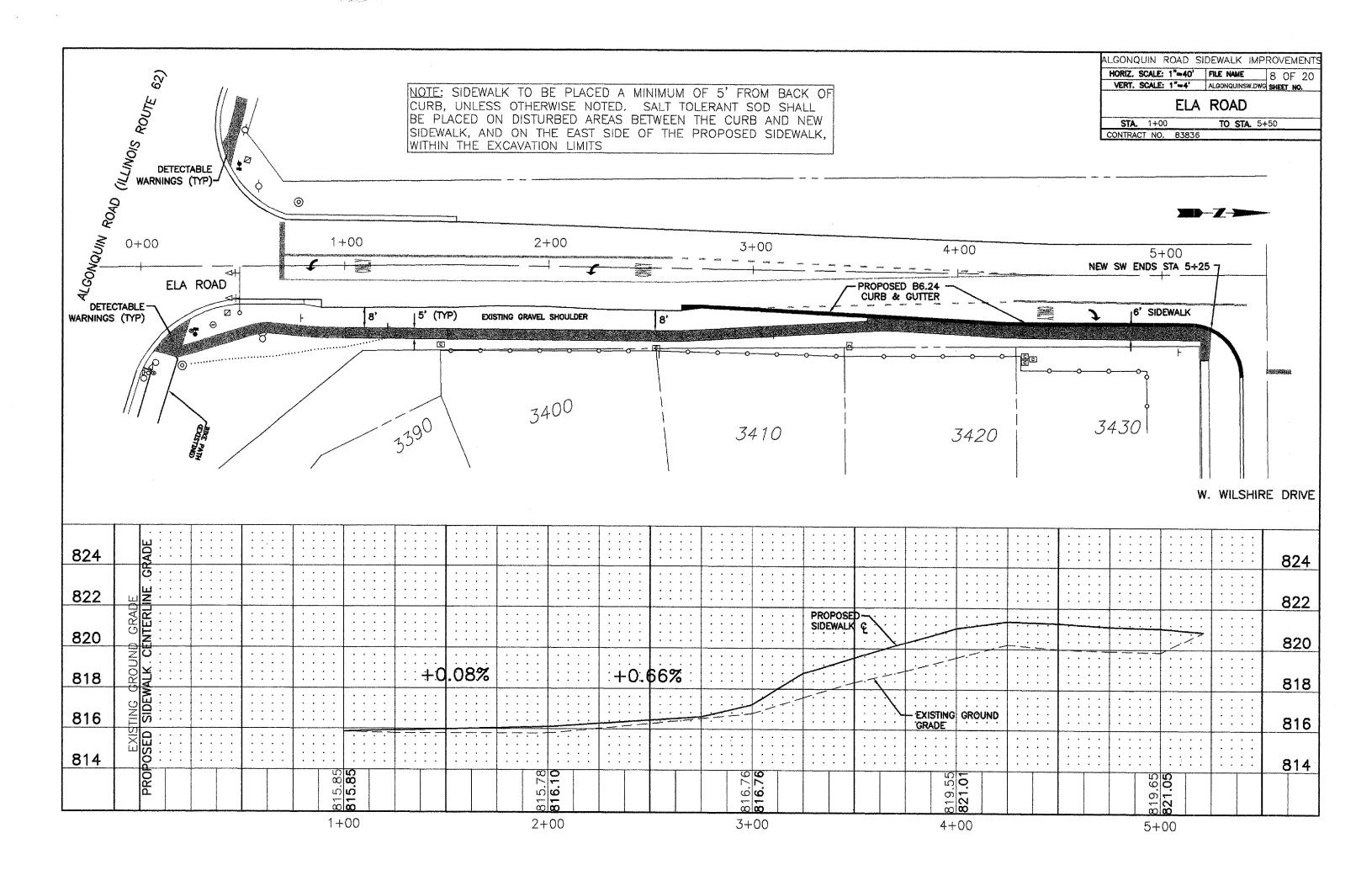
- 6. THE CONTRACTOR SHALL KEEP THE AREA OF CONSTRUCTION FREE OF DEBRIS AND OBJECTIONAL MATERIALS DURING CONSTRUCTION.
- 7. THE CONTRACTOR SHALL MAINTAIN ALL
 DRAINAGE FACILITIES DURING CONSTRUCTION
 AND SHALL REPAIR ANY DRAINAGE FACILITIES
 DAMAGED DURING CONSTRUCTION. THIS WORK
 SHALL BE CONSIDERED INCIDENTAL TO THE
 CONTRACT AND WILL NOT BE PAID FOR SEPARATELY.
- 8. MINIMUM SIDEWALK THICKNESS SHALL BE 5".
- 9. MAXIMUM LONGITUDINAL SLOPE SHALL NOT EXCEED 5%.
- 10. MAXIMUM TRANSVERSE SLOPE SHALL BE 1/4"/FT (2%).
- 11. ALL SIDEWALKS WITHIN THE PROJECT LIMITS AND ADJACENT TO THE CURB SHALL BE REMOVED AND REPLACED TO CONSTRUCT SIDEWALK RAMPS ACCESSIBLE TO THE DISABLED ACCORDING TO IDOT STANDARD 424001 TYPE B.
- 12. A MINIMUM FOUR INCH AGGREGATE BASE COURSE, TYPE B, SHALL BE PROVIDED FOR THE SIDEWALK.
- 13. AGGREGATE BASE COURSE SHALL BE MECHANICALLY COMPACTED. ONLY 2x6 WOOD FORMS SHALL BE USED FOR FRAMING THE CONCRETE WORK OR APPROVED EQUAL.
- 14. THE CONTRACTOR SHALL PROTECT ALL SIDEWALKS AND CURB & GUTTER FROM DAMAGE AND VANDALISM.
- 15. SUPPLEMENTAL WATERING SHALL BE AT THE DIRECTION OF THE ENGINEER FOR SOD.
- 16. SODDING SHALL OCCUR BETWEEN THE SIDEWALK AND THE CURB, AS SHOWN ON THE PLANS, OR AT THE DIRECTION OF THE ENGINEER.











ALGONQUIN RD SIDEWALK IMPROVEMENTS

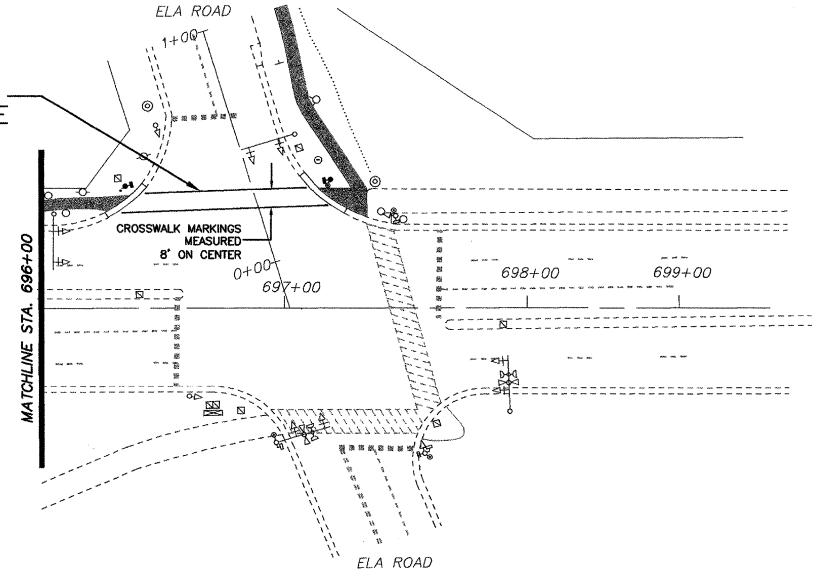
SCALE FILE NAME SHEET NO.

1"=40' STRIPING.DWG 9 OF 20

STRIPING PLAN

STA. 69	6+00	TO STA	. 698+00
ROUTE NUMBER	SECTION	NUMBER	COUNTY
3 3 9	02-0007	73-00-SW	COOK
CONTRACT	NO 83	876	

THERMOPLASTIC PAVEMENT _ MARKING LINE - 12" WHITE



ILLINOIS DEPARTMENT OF TRANSPORTATION

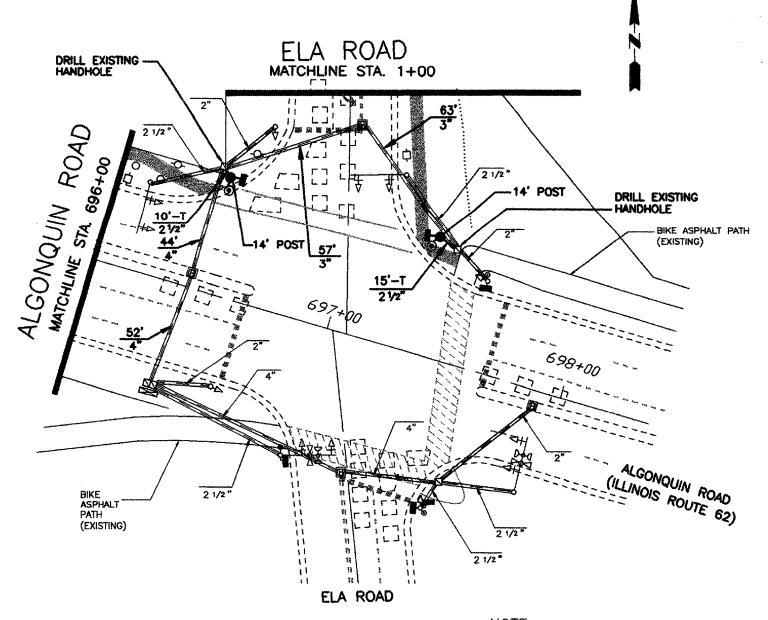
STRIPING PLAN

SCALE: 1"=40' DATE: 9/1/04 DRAWN BY: SW CHECKED BY: NOR

ALGO	NIUDI	RD	SIDE	EWALK	IMPR	OVE	MEN	173
HORIZ.	SCALE:	1"=4	10,	FILE NA	Æ	SHE	ET NO	•
	•		************	SIGNALS	S.DWG	10	QF	2

TRAFFIC SIGNAL PLAN

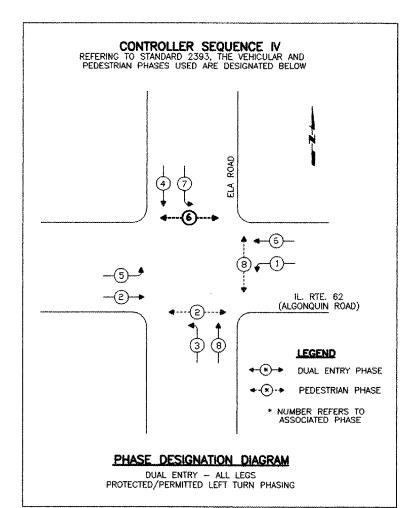
STA.	TO STA.	
ROUTE NUMBER	SECTION NUMBER	COUNTY
339	02-00073-00-SW	COOK
CONTRACT	NO 83836	

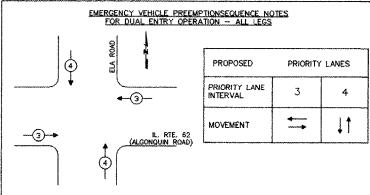


TRAFFIC SIGNAL LEGEND

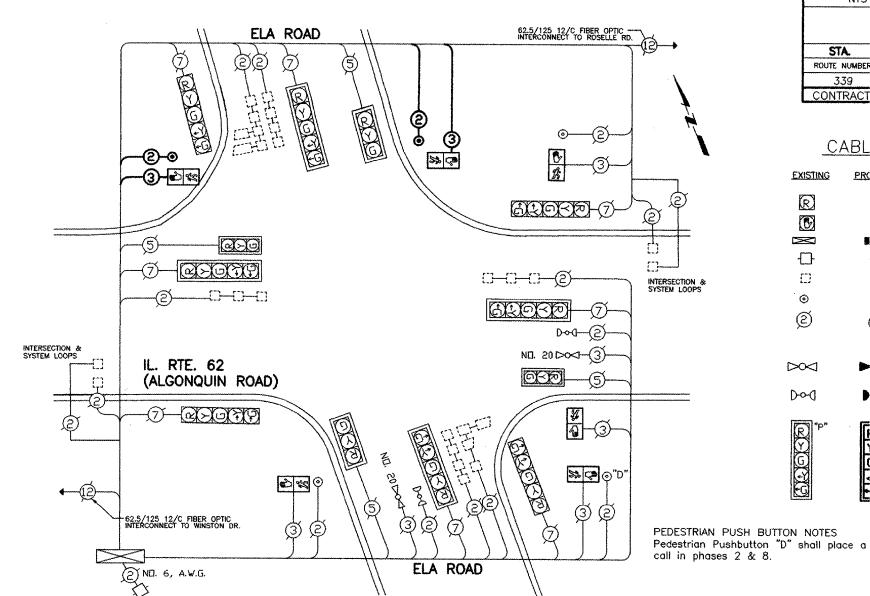
EXISTING	PROPOSED	•
		CONTROLLER
 ⊳	-	SIGNAL HEAD
+>	+	SIGNAL HEAD WITH BACKPLATE
	-4	SIGNAL HEAD, PEDESTRIAN
0	•	SIGNAL POST
	-	MAST ARM ASSEMBLY AND POLE, ALUMINU
	CT	COMMON TRENCH
	מט	UNIT DUCT
		G.S. CONDUIT IN TRENCH OR PUSHED
		HANDHOLE
	H	HEAVY DUTY HANDHOLE
22	55	DOUBLE HANDHOLE
•	•	PEDESTRIAN PUSHBUTTON DETECTOR
<u> </u>		DETECTOR LOOP
		DETECTOR LOOP EMERGENCY VEHICLE SYSTEM DETECTOR
houd		

NOTE:
IN ADDITION TO INSTALLING TWO NEW PEDESTRIAN LED SIGNAL
HEADS, THE FOUR EXISTING PEDESTRIAN SIGNAL HEADS WILL
BE REPLACED WITH THE NEW INTERNATIONAL TYPE SIGNAL HEAD LED.
CABLING FOR THE TWO PROPOSED PEDESTRIAN SIGNAL HEADS AND
PUSH BUTTONS WILL UTILIZE THE EXISTING CONDUIT RUNS TO CONNECT
TO THE CONTROLLER BOX.





- ONCE PREEMPTION HAS BEEN CALLED, TERMINATION OF A PHASE(S) SHLL BE IDENTICAL TO THE NORMAL SEQUENCE OF OPERATION'S TERMINATION OF A PHASE(S) AS DESCRIBED IN STANDARD 2393.
- 2. CONTINUATION OR TERMINATION OF ALL RIGHT TURN OVERLAP'S SHALL BE IDENTICAL TO THE NORMAL SEQUENCE OF OPERATIONS CONTINUATION OR TERMINATION OF RIGHT TURN OVERLAP'S AS DESCRIBED IN THE CLEARANCE NOTES FOR RIGHT TURN OVERLAP'S.
- 3. TERMINATION OF ALL PEDESTRIAN PHASES SHALL INCLUDE A FULL FLASHING "DON'T WALK" INTERVAL.
- 4. IF ALL RED CLEARANCE IS USED IN THE NORMAL SEQUENCE OF OPERATION, IT MUST BE DISPLAYED AFTER THE YELLOW CLEARANCE INTERVAL WHEN ENTERING OR LEAVING THE PREEMPTION SEQUENCE.



ALGONQUIN RD SIDEWALK IMPROVEMENTS SHEET NO. SCALE FILE NAME 11 OF 2 NTS CABLE.DWG

CABLE PLAN

STA.	TO ST	A.
ROUTE NUMBER	SECTION NUMBER	COUNTY
339	02-00073-00-SW	COOK
CONTRACT	NO 97976	

CABLE PLAN LEGEND

EXISTING PROPOSED

R (3)

 \square

0

(2)

Dod

12" TRAFFIC SIGNAL SECTION 12" PEDESTRIAN SIGNAL SECTION

CONTROLLER CABINET

SERVICE INSTALLATION

VEHICLE DETECTOR, INDUCTION LOOP PUSHBUTTON DETECTOR

DENOTES NUMBER OF CONDUCTORS ALL LOOP DETECTOR CABLE TO BE SHIELDED. ALL CABLE NO. 14 EXCEPT

 $\triangleright \infty \triangleleft$ EMERGENCY VEHICLE SYSTEM DETECTOR

SIGNAL FACE WITH BACKPLATE "P" INDICATES PROGRAMMED HEAD.

CONFIRMATION BEACON

CABLE PLAN

SCHEDULE OF QUANTITES

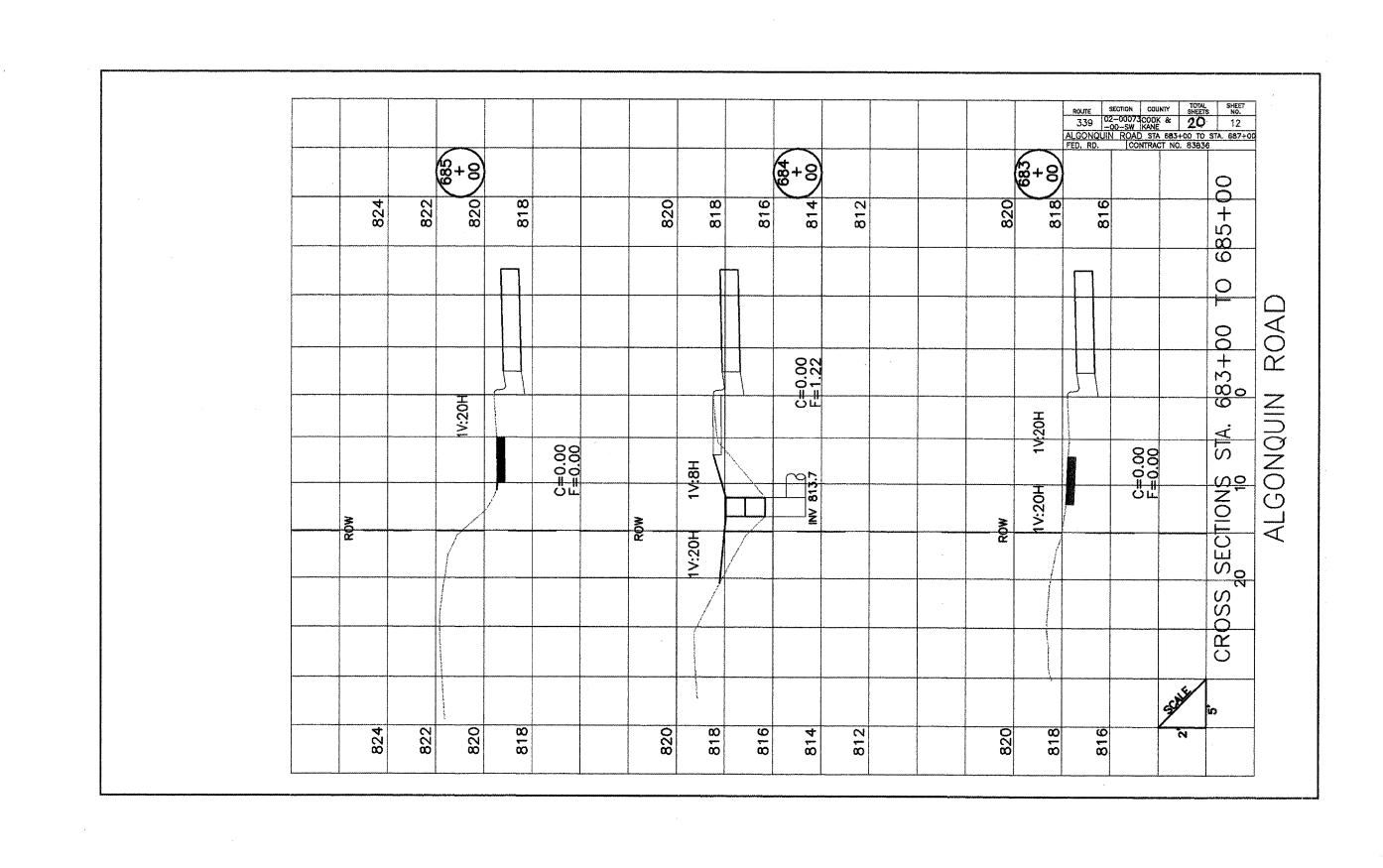
QUANTITY	UNIT	PAY ITEM
25	FT	CONDUIT IN TRENCH, 2 1/2" DIA., GALVANIZED STEEL
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
405	FT	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14, 2/C
405	FT	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14, 3/C
2	EACH	TRAFFIC SIGNAL POST, GALVANIZED STEEL, 14 FT
8	FT	CONCRETE FOUNDATION, TYPE A
2	EACH	DRILL EXISTING HANDHOLE
2	EACH	PEDESTRIAN PUSH BUTTON
1	EACH	MODIFY EXISTING CONTROLLER
6	EACH	PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED

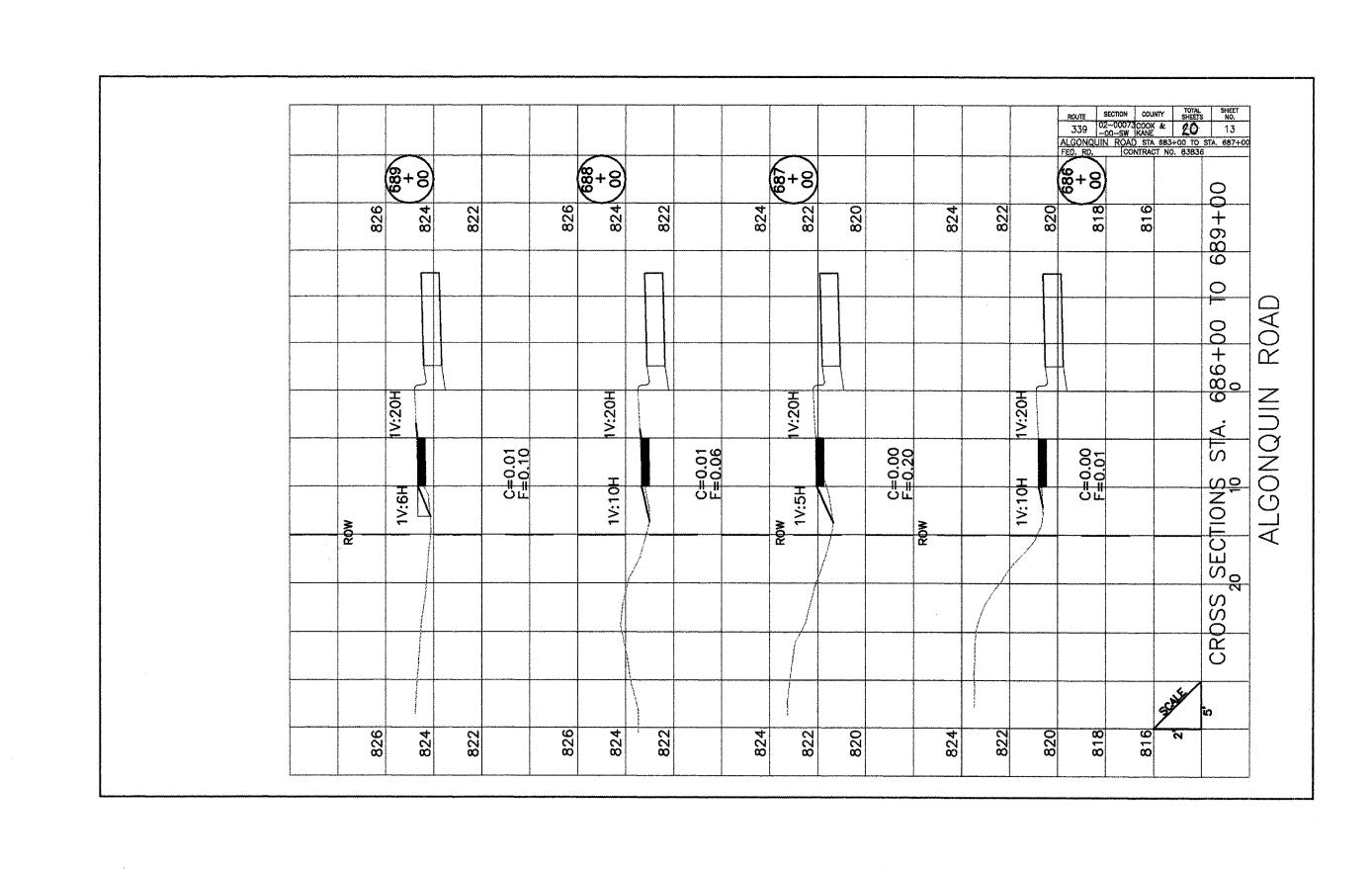
ILLINOIS DEPARTMENT OF TRANSPORTATION

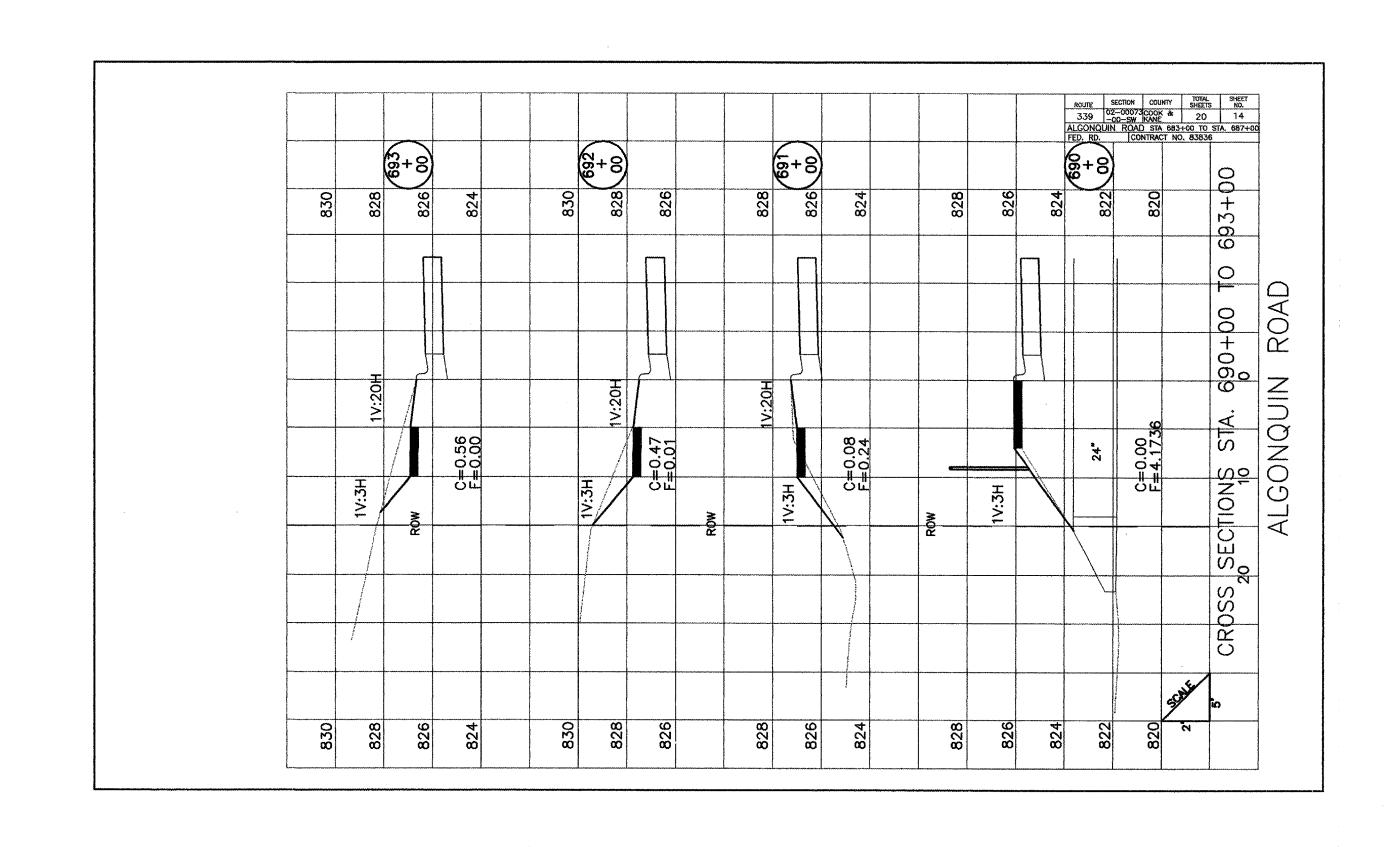
CABLE PLAN

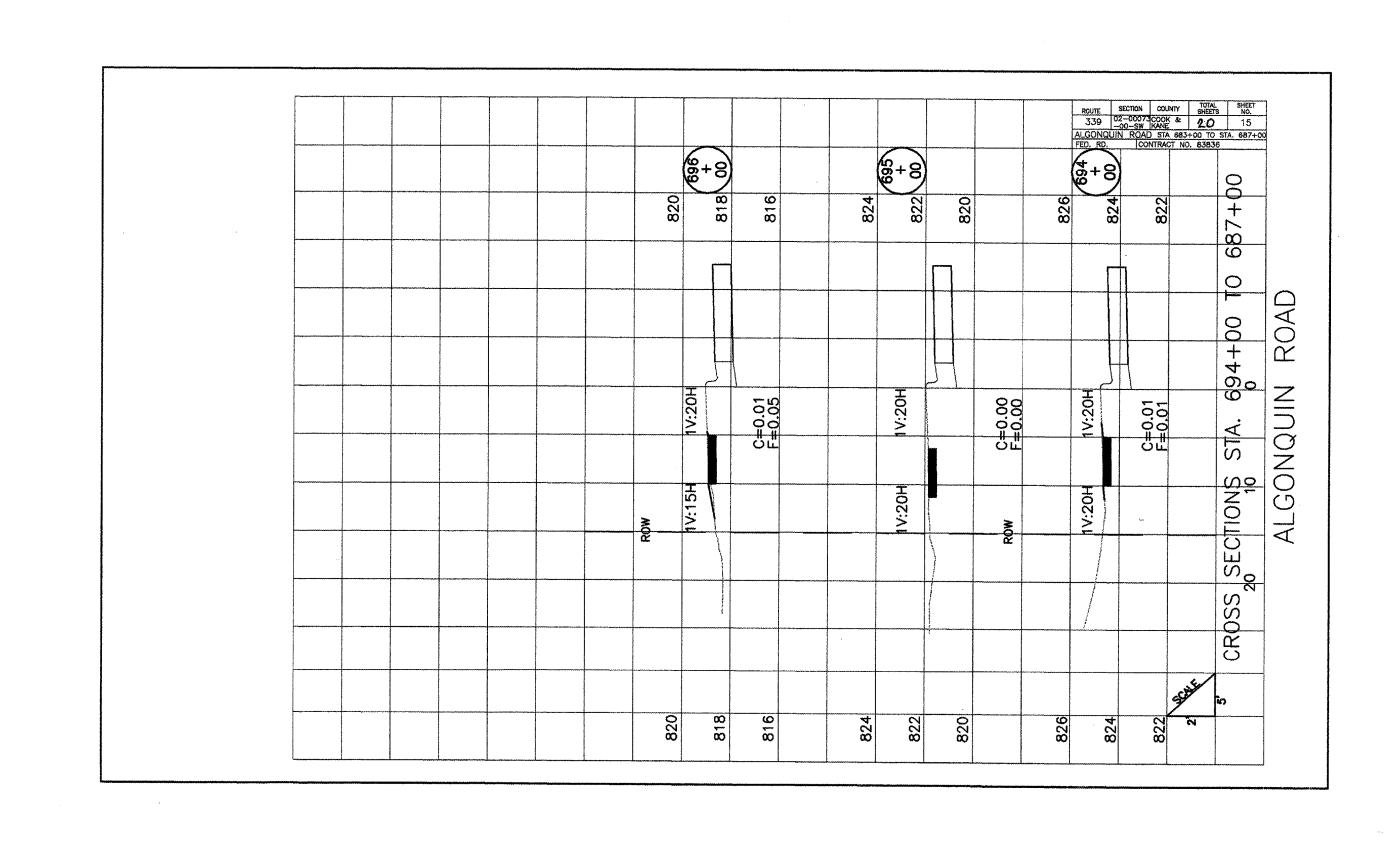
SCALE: NTS DATE:9/29/05

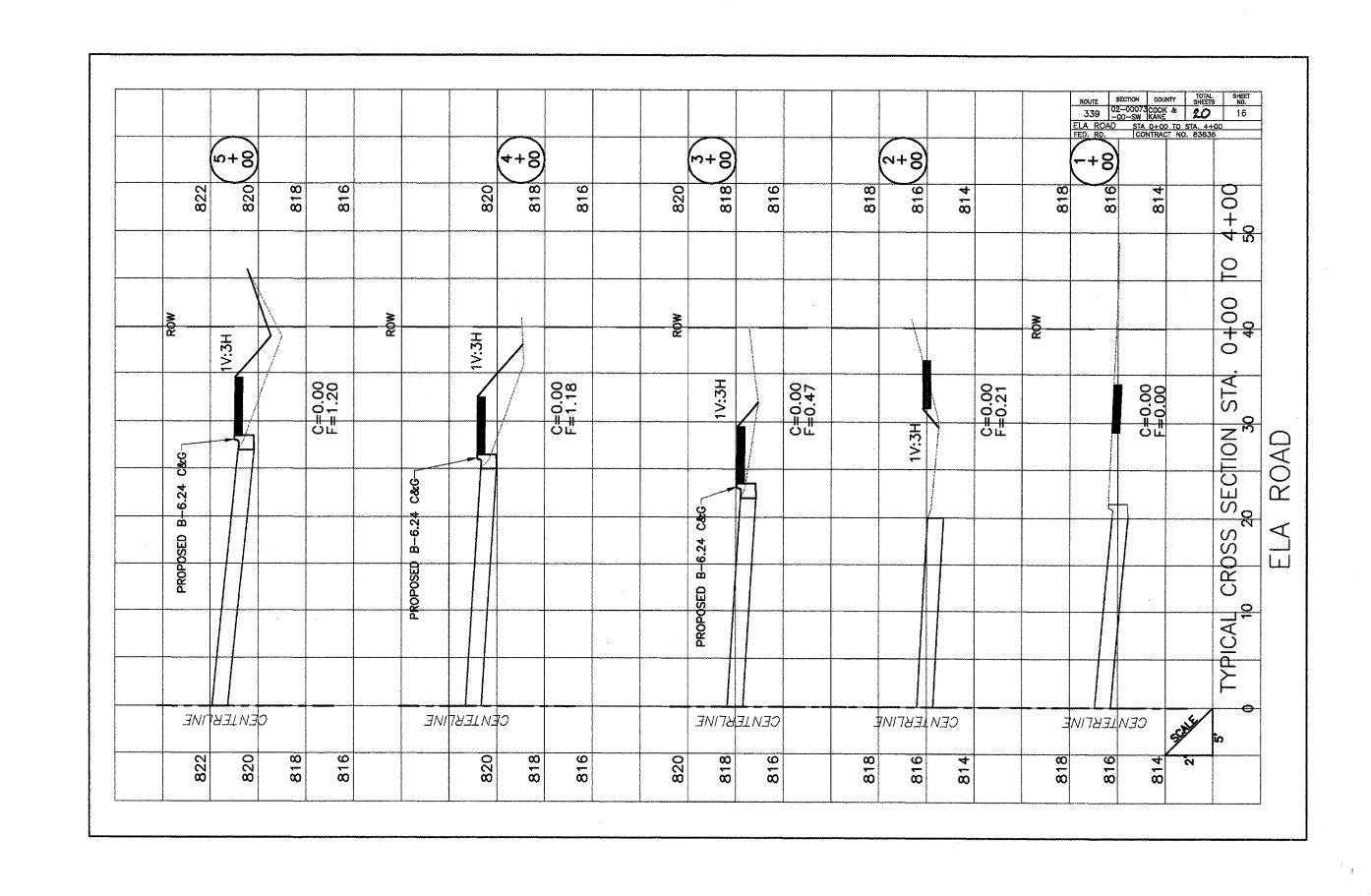
DRAWN BY: SW CHECKED BY: SW





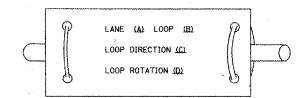




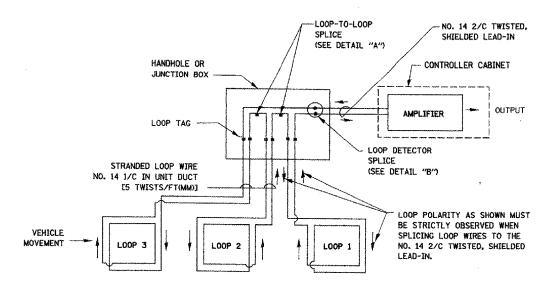


- 1. EACH PAIR OF LOOP WIRES SHALL BE PLACED IN A SEPARATE UNIT DUCT FROM THE EDGE OF PAVEMENT TO THE HANDHOLE. SPACING BETWEEN THE HOLES DRILLED IN THE PAVEMENT SHALL NOT BE LESS THAN 6" (150 mm). UNIT DUCT SHALL BE INCLUDED IN THE COST OF THE LOOP WIRE.
- 2. THE NUMBER OF LOOP TURNS SHALL BE AS RECOMMENDED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

LOOP LEAD-IN CABLE TAG

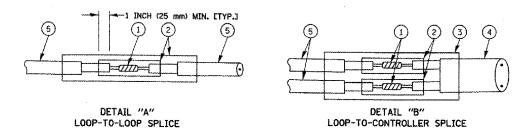


- A. LANE 1 IS THE LANE CLOSEST TO THE CENTERLINE OF THE ROADWAY
- B. LOOP *1 IS THE LOOP IN THE LANE CLOSEST TO THE INTERSECTION.
- C. LABEL LOOP CABLE "IN" OR LOOP CABLE "OUT".
- D. LABEL LOOP CABLE CLOCKWISE OR LOOP CABLE COUNTERCLOCKWISE.



DETECTOR LOOP WIRING SCHEMATIC

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



LOOP DETECTOR SPLICE

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

REVISIONS		
NAME DATE	ILLINOIS DEPARTMENT	OF TRANSPORTATION
	DISTRI	CT 1
	STANDARD TRA	FFIC SIGNAL
	DESIGN D	ETAILS
	SCALE: VERT. NONE	DRAWN 8Y: RWP DESIGNED BY: DAD CHECKED BY: DAZ SHEET 1 OF 4
	DATE 1-01-02	SHEET 1 OF 4

SECTION

COUNTY 339 02-00013- Cook 20 17 STA. 00-SWTO STA.

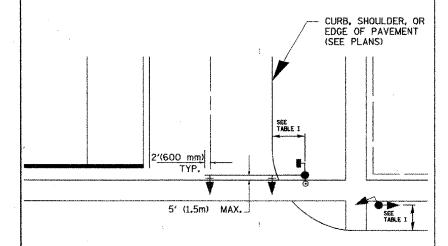
Contract th 83836

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

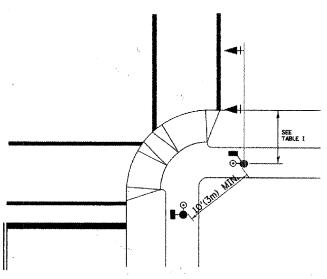
*DATE-TIME *DGN-SPEC*

TRAFFIC SIGNAL MAST ARM AND POST

MAST ARM MOUNTED SIGNAL IN PROPOSED & FUTURE SIDEWALK AREA. INTERSECTION SHOWN WITH PEDESTRIAN SIGNAL AND PUSHBUTTON DETECTOR



PEDESTRIAN SIGNAL PUSHBUTTON



RECOMMENDED PUSHBUTTON LOCATIONS FOR ACCESSIBLE PEDESTRIAN SIGNALS SHALL BE IN ACCORDANCE WITH THE CURRENT MUTCO (SEE NOTE 1). TO MEET MUTCO REQUIREMENTS, PEDESTRIAN SIGNAL PUSHBUTTONS MAY HAVE TO BE MOUNTED ON A SEPARATE POST.

NOTES:

SECTION COUNTY 339 02-00078 Cook 20 18 STA. -- CO-SWO STA. FED. ROAD BIST. NO. 1 ILLINOIS FED. AID PROJECT Constract # 83836

AT ACCESSIBLE PEDESTRIAN SIGNAL LOCATIONS WITH PEDESTRIAN ACTUATION. EACH PUSHBUTTON SHALL ACTIVATE BOTH THE WALK INTERVAL AND THE ACCESSIBLE PEDESTRIAN SIGNALS.

AT ACCESSIBLE PEDESTRIAN SIGNAL LOCATIONS, PUSHBUTTONS SHOULD CLEARLY INDICATE WHICH CROSSWALK SIGNAL IS ACTUATED BY EACH PUSHBUTTON. PUSHBUTTONS AND TACTILE ARROWS SHOULD HAVE HIGH VISUAL CONTRAST (SEE THE DEPARTMENT OF JUSTICE'S AMERICANS WITH DISABILITIES ACT STANDARDS FOR ACCESSIBLE DESIGN, 1991). TACTILE ARROWS SHOULD POINT IN THE SAME DIRECTION AS THE ASSOCIATED CROSSWALK. AT CORNERS OF SIGNALIZED LOCATIONS WITH ACCESSIBLE PEDESTRIAN SIGNALS WHERE PEDESTRIAN PUSHBUTTONS ARE PROVIDED, THE PUSHBUTTONS SHOULD BE SEPARATED BY THE DISTANCE OF AT LEAST 10 FT (3m). THIS ENABLES PEDESTRIANS WHO HAVE VISUAL DISABILITIES TO DISTINGUISH AND LOCATE THE APPROPRIATE PUSHBUTTON.

PUSHBUTTONS FOR ACCESSIBLE PEDESTRIAN SIGNALS SHOULD BE LOCATED AS FOLLOWS:

- A: ADJACENT TO A LEVEL ALL-WEATHER SURFACE TO PROVIDE ACCESS FROM A WHEELCHAIR, AND WHERE THERE IS AN ALL WEATHER SURFACE, WHEELCHAIR ACCESSIBLE ROUTE TO THE RAMP.
- B: WITHIN 5 FT (1.5m) OF THE CROSSWALK EXTENDED.
- C: WITHIN 10 FT (3m) OF THE EDGE OF CURB, SHOULDER, OR PAVEMENT.
- D: PARALLEL TO THE CROSSWALK TO BE USED (SEE MUTCO FIGURE 4E-2).
- E: NORMAL PEDESTRIAN PUSHBUTTON MOUNTING HEIGHT SHOULD BE 3.5 FT (1.05m) ABOVE ADJACENT SIDEWALK
- 2. PEDESTRIAN SIGNAL FACES SHALL BE MOUNTED WITH THE BOTTOM OF THE HOUSING NOT LESS THAN 8 FT (2.4m) NOR MORE THAN 10 FT (3.0m) ABOVE THE SIDEWALK LEVEL AND SO THERE IS A PEDESTRIAN INDICATION IN THE LINE OF PEDESTRIANS' VISION WHICH PERTAINS TO THE CROSSWALK
- 3. THE BOTTOM OF THE HOUSING OF A VEHICLE SIGNAL FACE, NOT MOUNTED OVER A ROADWAY, SHALL BE AT LEAST 10 FT (3.0m) BUT NOT MORE THAN 15 FT (4.5m) ABOVE THE SIDEWALK OR, ABOVE THE PAVEMENT GRADE AT THE CENTER OF THE HIGHWAY IF NO SIDEWALKS EXIST.
- 4. THE BOTTOM OF THE HOUSING OF A VEHICLE SIGNAL FACE, MOUNTED OVER A ROADWAY, SHALL BE ACCORDING TO CURRENT STATE STANDARDS 877001 AND 877006. (16 FT (5m) MIN., 18 FT (5.5m) MAX., FROM HIGHEST POINT OF PAVEMENT)

PEDESTRIAN SIGNAL POST

PEDESTRIAN SIGNAL HEAD AND PEDESTRIAN PUSHBUTTON DETECTOR LOCATION

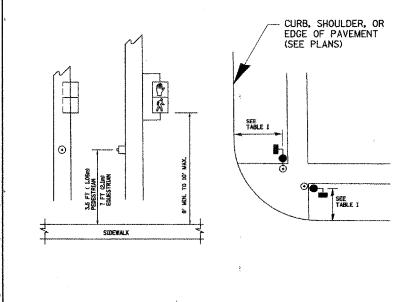
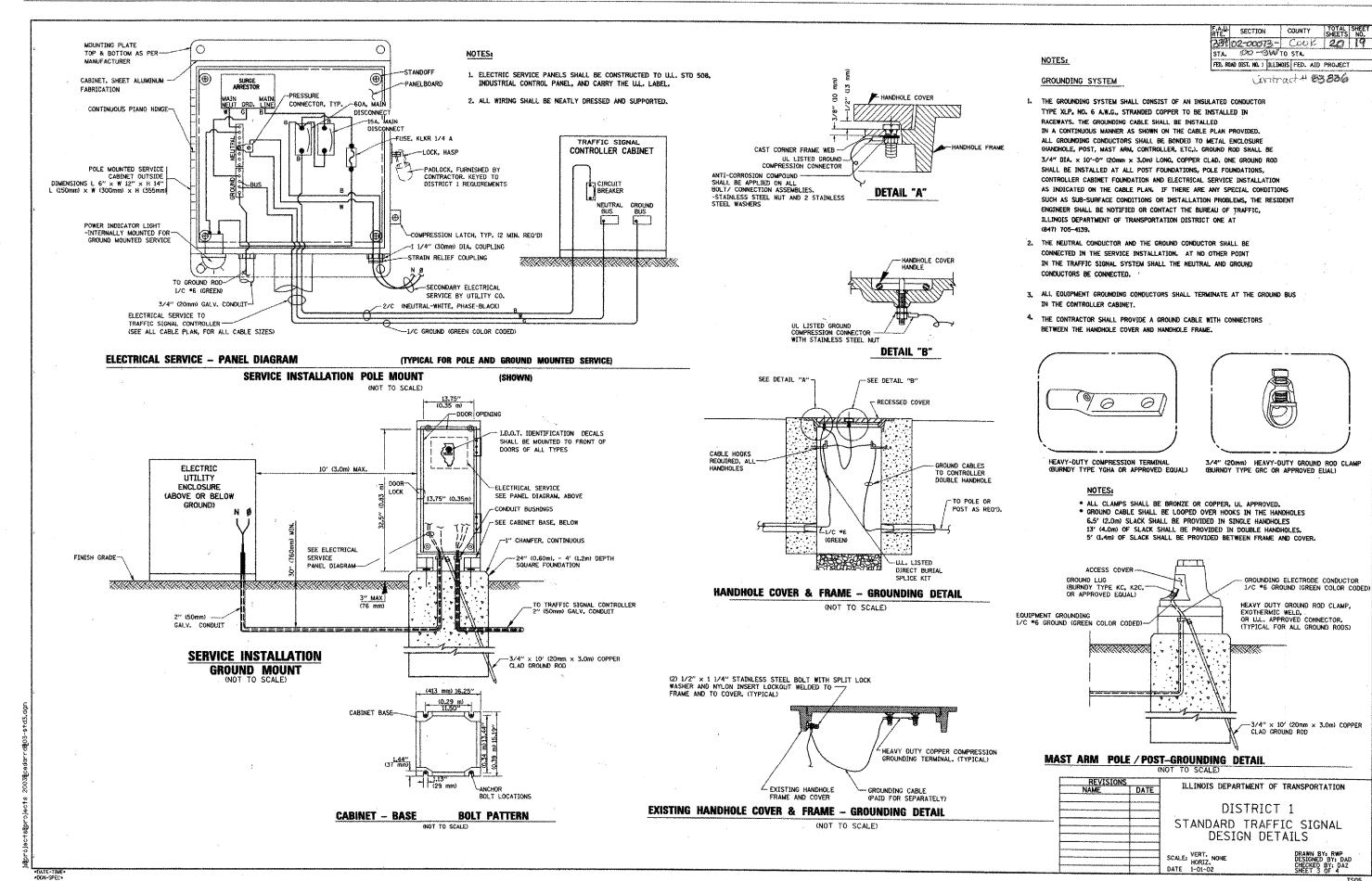
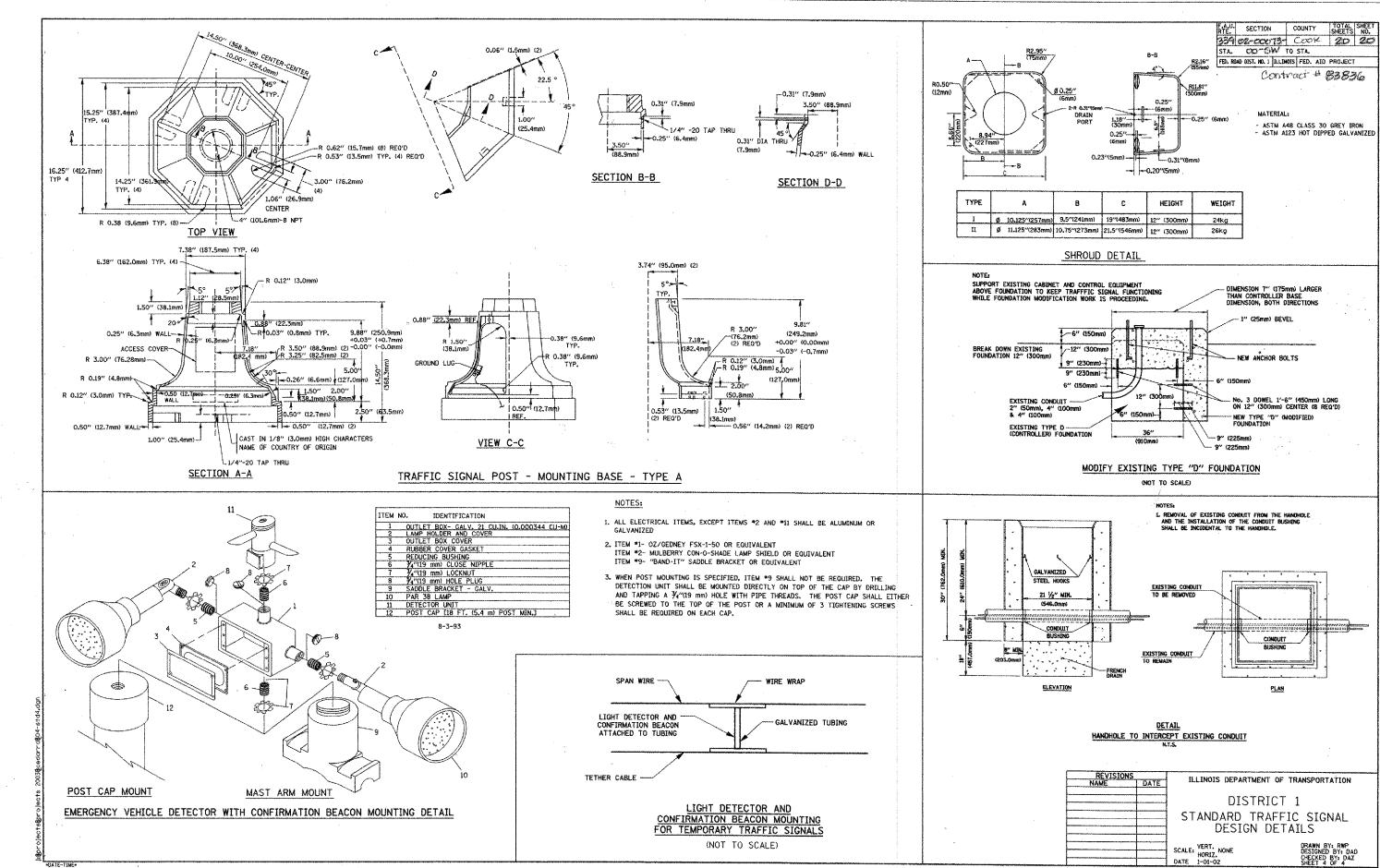


TABLE I

TRAFFIC SIGNAL EQUIPMENT	COMBINATION CONCRETE CURB AND GUTTER (MIN. DIST. FROM BACK OF CURB)	SHOULDER/NON-CURBED AREA (MIN. DIST. FROM EDGE OF PAVEMENT)
TRAFFIC SIGNAL MAST ARM POLE	6 FT (1.8m)	SHOULDER WIDTH + 2FT(0.6m), MINIMUM 10FT(3.0m)
TRAFFIC SIGNAL POST	4 FT (1.2m)	SHOULDER WIDTH + 2FT(0.6m), MINIMUM 10FT(3.0m)
PEDESTRIAN SIGNAL POST	4 FT (1.2m)	SHOULDER WIDTH + 2FT(O.6m), MINIMUM 10FT(3.0m)
PEDESTRIAN PUSHBUTTON	SEE NOTE 1	SEE NOTE 1

ILLINOIS DEPARTMENT OF TRANSPORTATION DISTRICT 1 STANDARD TRAFFIC SIGNAL DESIGN DETAILS SCALE: VERT. NONE HORIZ. NONE DATE 1-01-02 DRAWN BY: RWP DESIGNED BY: DAD CHECKED BY: DAZ SHEET 2 OF 4





TS05