STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS**

PROPOSED HIGHWAY PLANS

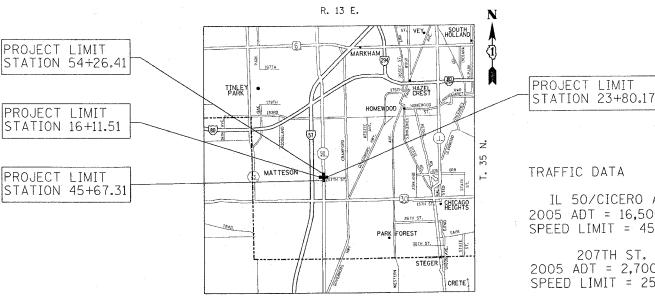
F.A.P. 350: IL 50 (CICERO AVENUE) AT 207TH STREET /BIRCHWOOD LANE

SECTION: 101 TS-2

SIGNAL INSTALLATION PROJECT: ACHPP-HPP-2768 (001)

COOK COUNTY

C-91-092-06



TRAFFIC DATA

IL 50/CICERO AVE. 2005 ADT = 16,500SPEED LIMIT = 45-50 MPH

207TH ST. 2005 ADT = 2,700SPEED LIMIT = 25 MPH

SCALE: NONE

LOCATION MAP

RICH TOWNSHIP

207TH GROSS AND NET LENGTH OF PROJECT = 768.66 FEET ILL 50 GROSS AND NET LENGTH OF PROJECT = 859.10 FEET

CONTRACT NO. 60A64 F.A.P. SECTION
350 101 TS-2 COUNTY COOK 28

D-91-092-06



STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS

SUBMITTED Feb 10 20 06 Diane M. O' Hofe Col DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER March 24, 20 06

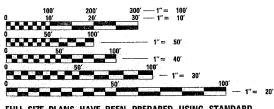
MILITURE TO DESIGN AND ENVIRONMENT

March 24,20 Ob Milton P. Suo P. S. F. D DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

PROJECT LOCATED IN THE VILLAGE OF MATTESON

FOR INDEX OF SHEETS, SEE SHEET NO. 2



ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION 1-800-892-0123

CONTRACT NO. 60A64

ENGINEER: PREPARATION

(847)

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tillu (20/05) des junes, nG2 - 2/4/2005 - 2-15-39 PH (Nur-swith)

			CONTIN	ACT NO.	OUAGT
F.A.P. RTE.	SECT	ION	COUNTY	TOTAL SHEETS	SHEET NO.
350	101	rs-2	COOK	26	2
STA.		то	STA		
FED. RC	AD DIST. NO	ILLINOI	FED. A	D PROJECT	

INDEX OF SHEETS

DESCRIPTION SHEET NO. TITLE SHEET INDEX OF SHEETS, STATE STANDARDS, AND GENERAL NOTES 3-4 SUMMARY OF QUANTITIES TYPICAL SECTIONS ROADWAY PLAN 8~9 PAVEMENT MARKING PLAN TRAFFIC SIGNAL PLANS CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS DETAILS FOR FRAMES AND LIDS ADJUSTMENT WITH MILLING RAISED REFLECTIVE PAVEMENT MARKERS (SNOW PLOW RESISTANT) DISTRICT ONE TYPICAL PAVEMENT MARKINGS TRAFFIC CONTROL AT TURN BAYS (TO REMAIN OPEN TO TRAFFIC) PAVEMENT MARKINGS, LETTERS AND SYMBOLS FOR TRAFFIC STAGING TEMPORARY INFORMATION SIGNING 21A MEDIAN NOSE DETAIL DISTRICT 1 DETECTOR LOOP INSTALLATION DETAILS FOR ROADWAY RESURFACING 23-26 DISTRICT ONE STANDARD TRAFFIC SIGNAL DESIGN DETAILS

STATE STANDARDS

STANDARD NO.	DESCRIPTI	ON				
000001-04	STANDARD	SYMBOLS,	ABBREVIATIONS	AND	PATTERNS	

604001-02 FRAME AND LIDS, TYPE 1

606001-02 CONCRETE CURB AND COMBINATION CONCRETE CURB AND GUTTER

606301-02 PC CONCRETE ISLANDS AND MEDIANS

701301-02 LANE CLOSURE, 2L. 2W SHORT TIME OPERATIONS

701601-04 URBAN LANE CLOSURE, MULTILANE 1W OR 2W WITH NONTRAVERSABLE MEDIAN

701701-04 URBAN LANE CLOSURE, MULTILANE INTERSECTION

702001-06 TRAFFIC CONTROL DEVICES

720001 SIGN PANEL MOUNTING DETAILS

780001-0/ TYPICAL PAVEMENT MARKINGS

814001 CONCRETE HANDHOLES

DOUBLE HANDHOLES 814006

STANDARD PHASE DESIGNATION DIAGRAMS AND PHASE SEQUENCES 857001

877001-02 STEEL MAST ARM ASSEMBLY AND POLE

878001-04 CONCRETE FOUNDATION DETAILS

880006 TRAFFIC SIGNAL MOUNTING DETAILS

886001 DETECTOR LOOP INSTALLATION

GENERAL NOTES

BEFORE STARTING ANY EXCAVATION, THE CONTRACTOR SHALL CALL "JULIE" AT 1-800-892-0123 FOR FIELD LOCATIONS OF BURIED ELECTRIC, TELEPHONE AND GAS FACILITIES. (48 HOURS NOTIFICATION IS REQUIRED)

THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH UTILITY COMPANIES AND THE VILLAGE OF MATTESON

THE CONTRACTOR WILL NOT BE ALLOWED TO SET UP A YARD OR FIELD OFFICE ON STATE PROPERTY WITHOUT WRITTEN PERMISSION FROM THE DEPARTMENT.

3 METER (10') TRANSITIONS SHALL BE USED TO MATCH PROPOSED CURB AND GUTTER AND MEDIAN ITEMS OF WORK TO EXISTING CURB & GUTTER AND MEDIANS IN THE FIELD, UNLESS OTHERWISE SHOWN, THE TRANSITION SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE FOR THE PROPOSED ITEMS OF WORK SPECIFIED.

THE RESIDENT ENGINEER SHALL CONTACT MS. PATRICE HARRIS, AREA TRAFFIC FIELD ENGINEER AT (773)685-8386 A MINIMUM OF 72 HOURS PRIOR TO PLACEMENT OF PERMANENT PAVEMENT MARKINGS.

THE RESIDENT ENGINEER SHALL VERIFY THE LOCATIONS OF ALL EXISTING PAVEMENT MARKINGS PRIOR TO START OF CONSTRUCTION.

THE UNIT WEIGHT (CONVERSION FACTOR) QUOTED IS FOR THE ESTIMATED PLAN QUANTITIES ONLY. ACTUAL QUANTITIES TO FUFILL CONTRACT REQUIREMENTS WILL BE DETERMINED BASED ON UNIT WEIGHT OF THE APPROVED MIX DESIGN, PLAN DIMENSIONS AND DENSITY LIMITATIONS. MAXIMUM PAYMENT WILL BE COMPUTED BASED ON WEIGHT AVERAGE DENSITIES OF THE IN-PLACE MIXTURES.

TWO PORTABLE CHANGEABLE MESSAGE SIGNS SHALL BE PROVIDED FOR A PERIOD OF ONE MONTH EACH. THE SIGNS SHALL NOTIFY MOTORIST THAT THE "TRAFFIC SIGNAL WILL BE TURNED ON" 7 - 10 DAYS BEFORE SIGNAL IS ACTIVATED.

THE CONTRACTOR SHALL VERIFY PROPOSED CULVERT DIAMETER BEFORE ORDERING MATERIALS

PAVEMENT MARKING REMOVAL SCHEDULE

MARKING	UNIT	STA. TO STA.	QUANTITY
4" WHITE - SKIP DASH LINE	FOOT	45+67 TO 49+56 50+46 TO 54+26	385 FT
4" YELLOW - DOUBLE YELLOW CENTERLINE	FOOT	20+46 TO 22+52 23+28 TO 23+80	516 FT
4" YELLOW - MEDIAN EDGE LINE	FOOT	45+67 TO 49+56 50+46 TO 54+26	1561 FT
4" WHITE - EDGE LINE	FOOT	45+67 TO 49+77 50+61 TO 54+26	775 FT
TOTAL REMOVAL - 4" WHITE			3237 FT
6" WHITE - TURN LANE LINE	FOOT	45+76 TO 49+56 45+09 TO 49+56 50+46 TO 54+26 50+46 TO 52+46 20+72 TO 21+91	1526 FT
6" WHITE - DOTTED LINE	FOOT	NA	-
6" WHITE - CROSSWALK LINE	FOOT	NA	-
TOTAL REMOVAL - 6" WHITE			1526 FT
TOTAL REMOVAL- LETTERS AND SYMBOLS	SQ FT	STA 46+00, STA 48+00 STA 48+85, STA 50+73 STA 51+18, STA 52+25 STA 54+00, STA 21+55	341 SQFT
TOTAL REMOVAL - 12" WHITE - 45° DIAGONAL	FOOT	45+67 TO 49+56 50+46 TO 54+26	81 FT
TOTAL REMOVAL- 24" SOLID WHITE - STOP LINES	FOOT	STA 49+56, STA 50+46 STA 19+23, STA 20+72	130 FT
TOTAL PAVEMENT MARKING REMOVAL			894 SQFT

REVISION NAME	IS DATE	ILLINOIS	DEPARTMENT OF TRANSPORTATION	
NAME	DATE		INDEX OF SHEETS,	
			STATE STANDARDS,	
			GENERAL NOTES AND	
			PAVEMENT MARKING	
		VERT.	REMOVAL SCHEDULE	
		SCALE: HORIZ.	DRAWN BY	
		DATE	CHECKED BY	RI

F.A.P. RTE.	SECTION		COUNT	γ .	TOTAL SHEETS	SHEET NO.
350	101 TS-2		COO		26	. 3
FED.	ROAD DIST. NO. 1	ILL	INOIS	HIG	HWAY PR	DJECT

	SUMMARY OF QUANTITIES		,,,,,,,			CONSTRUCT	TON TYPE	CODE	 T
			TOTAL	IL 50	@ 207th				
CODE NO	ITEM	UNIT	QUANTITIES	IOOO-1A 80% FED 20% STATE	Y031-1F 80% FED 10% STATE 10% VILLAGE	YO31-3D			
20200100	EARTH EXCAVATION	CU YD	10	10					
20201200	REMOVAL AND DISPOSAL OF UNSUITABLE	CU YD	2	2					
20400800	FURNISHED EXCAVATION	CU YD	10	10					
20800150	TRENCH BACKFILL	CU YD	3, 5	3.5					
21400100	GRADING AND SHAPING DITCHES	FOOT	15	15					
21101615	TOPSOIL FURNISH AND PLACE, 4"	SQ YD	5	5					
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	0.5	0.5					1
25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	0.5	0. 5		·			
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	0.5	0.5					
25200100	SODDING	SQ YD	5	5					
25200200	SUPPLEMENTAL WATERING	UNIT	0.5	0.5					
28100707	STONE DUMPED RIPRAP, CLASS A4	SQ YD	2	2					
28200 2 00	FILTER FABRIC	SQ YD	2	2					
31101200	SUB-BASE GRANULAR MATERIAL, TYPE B 4"	SQ YD	450	450					
2101300	PROTECTIVE COAT	SQ YD	720	720			•		
2400400	PORTLAND CEMENT CONCRETE SIDEWALK 7	SQ FT	660	660					
2400800	DETECTABLE WARNINGS	SQ FT	100	100					ĺ
14000100	PAVEMENT REMOVAL	SQ YD	80	80					
4000500	COMBINATION CURB AND GUTTER REMOVAL	FOOT	1650	1650					-
4000600	SIDEWALK REMOVAL	SQ FT	460	460					
4003100	MEDIAN REMOVAL	SQ FT	6075	6075					
0105220	PIPE CULVERT REMOVAL	FOOT	8	8					
4201279	PIPE CULVERTS, TYPE 2 RCCP 24"	FOOT	16	16		j.			
4213669	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 24"	EACH	1	1					
4247130	GRATING FOR CONCRETE FLARED END SECTION 24"	EACH	1	1		A CONTRACTOR OF THE PARTY OF TH			
0300305	FRAMES AND LIDS TO BE ADJUSTED	EACH	1	1					
	COMBINATION CONCRETE CURB AND GUTTER,	FOOT	870	870					
06/8300	TYPE B-6.12(SPECIAL) CONCRETE MEDIAN SURPACE, 4 INCH	SQ. FT.	2110	2110					
000400	CONCRETE MEDIAN, TYPE 38 - 6.12(SPECIAL) ENGINEER'S FIELD OFFICE, TYPE A	50.FT. CAL MO	1660	1660					
	MOBILIZATION	L SUM	1	1					
	TRAFFIC CONTROL AND PROTECTION, STANDARD 701601	L SUM	1	1					

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						60A6				<u> </u>
		SUMMARY OF QUANTITIES		11000.			CONSTRUCT	TION TYPE	CODE	
				TOTAL		207th	ļ	<u> </u>		
	CODE NO	ITEM	UNIT	QUANTITIES	1000-1A	Y031-1F	Y031-3D	L		
				. :	80% FED 20% STATE	80% FED 10% STATE 10% VILLAGE	100% VILLAGE			
	70102635	TRAFFIC CONTROL AND PROTECTION, STANDARD 701701	L SÚM	1	1					
	70300100	SHORT-TERM PAVEMENT MARKING	FOOT	400	400					
	70300210			400	400					
	10300210	TEMPORARY PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	380	380			a.	1	
	70300220	TEMPORARY PAVEMENT MARKING	FOOT	3900	3900					
		- LINE 4"		3300	3300					
	70300240	TEMPORARY PAVEMENT MARKING	FOOT	2000	2000					
		- LINE 6"								
	70300260	TEMPORARY PAVEMENT MARKING - LINE 12"	FOOT	100	100					
	70300280	TEMPORARY PAVEMENT MARKING								
	10300280	- LINE 24"	FOOT	150	150					
	70301000	WORK ZONE PAVEMENT MARKING REMOVAL	SQ FT	3300	3300					
×	72000100	SIGN PANEL - TYPE 1	SQ FT		3300					
-	72000200	SIGN PANEL - TYPE 2		14		14		• " • •		
*		SIGN PANEL - TYPE 2	SQ FT	25		25				
*	78000100	THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	380	380					
*	78000200	THERMOPLASTIC PAVEMENT MARKING	FOOT	7000						
		- LINE 4"	FOOT	3900	3900					
*	78000400	THERMOPLASTIC PAVEMENT MARKING	FOOT	2000	2000					
		- LINE 6"								
*	78000600	THERMOPLASTIC PAVEMENT MARKING	FOOT	100	100					
*	78000650									
K	18000650	THERMOPLASTIC PAVEMENT MARKING - LINE 24"	FOOT	150	150			4 14		
*	78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	100	100					
	78300100	PAVEMENT MARKING REMOVAL	SQ FT	920						
	78300200				920					
1	1000200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	70	70					
	81000600	CONDUIT IN TRENCH, 2" DIA., GALVANIZED	FOOT	665		665				
ĺ		STEEL						-	-	
	81000700	CONDUIT IN TRENCH, 2 1/2" DIA.,	FOOT	89		89				
		GALVANIZED STEEL								
1	81001100	CONDUIT IN TRENCH, 5" DIA., GALVANIZED STEEL	FOOT	10		10				
	81018500	CONDUIT PUSHED, 2" DIA., GALVANIZED	EOOT	203					. Useraldo esta	*
-		STEEL	FOOT	203	-	203				
	81018600	CONDUIT PUSHED, 2 1/2" DIA., GALVANIZED	FOOT	90		90				
		STEEL	-		-			,		
1		·		1 1					. 1	

REVISIONS ILLINOIS DEPARTMENT OF TRANSPORTATION

MAKE DATE

SUMMARY OF QUANTITIES

F.A.P. RTE.	SECTION		COUNT	Υ	TOTAL SHEETS	SHEET NO.
350	101 TS-2		COOF		- 26	4
FED.	ROAD DIST. NO. 1	ILL	INOIS	HIG	HWAY PRO	DJECT

		SUMMARY OF QUANTITIES	***************************************				CONSTRUCT	ION TYPE (CODE]
		SUMMART OF QUANTIFIES	· ·	URBAN TOTAL	IL 50 c	207th					
	CODE NO	I TEM	UNIT	QUANTITIES	I000-1A	Y031-1F	Y031-3D				_
					80% FED 20% STATE	80% FED 10% STATE 10% VILLAGE	100% VILLAGE				
	81018900	CONDUIT PUSHED, 4" DIA., GALVANIZED STEEL	FOOT	121		121					
	81019000	CONDUIT PUSHED, 5" DIA., GALVANIZED STEEL	FOOT	135		135		:	-		
	81400100	HANDHOLE	EACH	4		4					İ
	81400200	HEAVY-DUTY HANDHOLE	EACH	. 4		4					
	81400300	DOUBLE HANDHOLE	EACH	2		2					
	81500200	TRENCH AND BACKFILL FOR ELECTRICAL WORK	FOOT	759		759					
	85700200	FULL-ACTUATED CONTROLLER AND TYPE IV CABINET	EACH	1		1					
	87301215	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	913		913			-		
	87301225	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	1586		1586			-		
	87301245	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	1162		1162			And the second s	·	
	87301255	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	1537		1537					
	87301305	ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	1600		1600					
	87301805	ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C	FOOT	228		228	Last value of the control of the con				
	87502480	TRAFFIC SIGNAL POST, GALVANIZED STEEL 14 FT.	EACH	2		2					
	87502500	TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EACH	2		2					
	87700150	STEEL MAST ARM ASSEMBLY AND POLE, 22 FT.	EACH	. 1	· ·	1	- Contraction of the Contraction				
	87700180	STEEL MAST ARM ASSEMBLY AND POLE, 28 FT.	EACH	1		1		-			
	87700220	STEEL MAST ARM ASSEMBLY AND POLE, 36	EACH	. 2		2		·			
	87800100	CONCRETE FOUNDATION, TYPE A	FOOT	20		- 20					A
	87800200	CONCRETE FOUNDATION, TYPE D	FOOT	4		4					
	87800400	CONCRETE FOUNDATION, TYPE E 30-INCH DIAMETER	FOOT	60		60					
	88200210	TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM	EACH	8		8					
- Carrier	88500100	INDUCTIVE LOOP DETECTOR	EACH	8		8					
(N) (N) (N)	88600100	DETECTOR LOOP, TYPE I	FOOT	1166		1166		-			

					60A6	4			
	SUMMARY OF QUANTITIES					CONSTRUCT	ION TYPE	CODE	
			URBAN TOTAL	IL 50	207th				
CODE NO	ITEM	UNIT	QUANTITIES	I000-1A	Y031-1F	Y031-3D			ļ
				80% FED 20% STATE	80% FED 10% STATE 10% VILLAGE	100% VILLAGE			
8700200	LIGHT DETECTOR	EACH	2			2			
88700300	LIGHT DETECTOR AMPLIFIER	EACH	1			1			
					_	-			
88800100	PEDESTRIAN PUSH-BUTTON	EACH	5		5			•	
X0322256	TEMPORARY INFORMATION SIGNING	SQ FT	103.4	103.4		•			
X0322903	SAW CUTTING, (FULL DEPTH)	FOOT	1745	1745					
							e ^e		
¥255444		:							
				a markamana					
X4066426	BITUMINOUS CONCRETE SURFACE COURSE,	TON	22	22					
X4066740	SUPERPAVE, MIX "D", N70	TON	15	15					
X40666140	LEVELINGBINDER (MACHINE METHOD) 170				1		-		
	CUDERDAYE, IL 10.0, III							7	
X7015000	CHANGEABLE MESSAGE SIGN	CAL MO	2	2					
x8050010	SERVICE INSTALLATION - GROUND MOUNTED	EACH	1		1		,		
x8730027		FOOT							
A8130021	ELECTRIC CABLE IN CONDUIT, GROUNDING, NO. 6 1C	F001	737		737				
X8730250	ELECTRIC CABLE IN CONDUIT NO. 20 3/C,	FOOT	272			272			
	TWISTED, SHIELDED								
X8800020	SIGNAL HEAD , LED, 1-FACE, 3-SECTION,	EACH	6		6				
	MAST-ARM MOUNTED	7							
X8800040	SIGNAL HEAD , LED, 1-FACE, 5-SECTION,	EACH	2		2				
	BRACKET MOUNTED								
X8800045	SIGNAL HEAD , LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED	EACH	2		2				
	MAST-ARM MODIVIED				. ,				
X8800060	SIGNAL HEAD , LED, 2-FACE, 3-SECTION, BRACKET MOUNTED	EACH	2		2				
V0040040		F. 611							
X8810610	PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED	EACH	2		2				
X8810620	PEDESTRIAN SIGNAL HEAD, LED, 2-FACE,	EACH	3		3				
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	BRACKET MOUNTED								
Z0018500	DRAINAGE STRUCTURES TO BE CLEANED	EACH	1	1					
X0325252	PORTLAND CEMENT CONCRETE BASE	5Q.YD.	260	260					
	COURSE WIDEHING 151/2"								
									-
		-	-						

* SPECIALTY ITEM

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A NON- PARTICIPATING

REVISIONS
NAME DATE

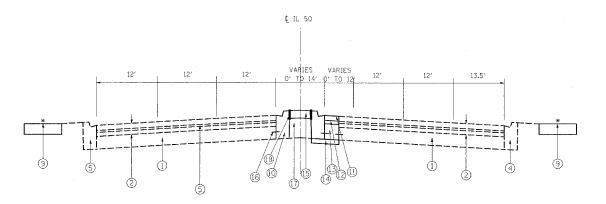
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ILLINOIS DEPARTMENT OF TRANSPORTATION
SUMMARY OF QUANTITIES

PLOT DATE:_2/10/2006

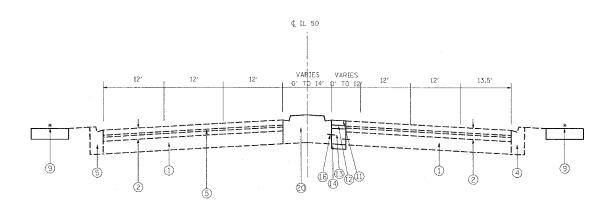
IL 50

STATION 45+67 TO 49+59



PROPOSED TYPICAL SECTION IL 50

> STATION 45+67 TO 47+47



PROPOSED TYPICAL SECTION

STATION 47+47 TO 49+59 LEGEND

COUNTY TOTAL SHEET NO. SECTION 101 TS-2 COOK 350 26 5 STA. 45+67 TO STA. 49+59 FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT

- 1 EXISTING PCC BASE COURSE, 15"(±)
- (2) EXISTING BIT. CONC. SURFACE COURSE, 3"(±)
- (3) EXISTING PCC SIDEWALK, 7"
- 4 EXISTING COMBINATION CONC. CURB & GUTTER, TYPE B-6.12
- (5) EXISTING COMBINATION CONC. CURB & GUTTER, TYPE B-6.24
- (6) EXISTING CRUSHED STONE
- (7) EXISTING PC CONCRETE CURB
- 8 EXISTING CONCRETE MEDIAN SURFACE
- 9 PROPOSED PCC SIDEWALK, 7"
- (10) PROPOSED CONCRETE CURB AND GUTTER, TYPE B-6.12 (SPECIAL)
- (11) PROPOSED 1 1/2" BIT. CONC. SURF. CRSE, SUPERPAVE, MIX "D", N70
- 12 PROPOSED 1" LEVELING BINDER (HM) SUPERPAVE, N70
- (13) PROPOSED 15 1/2" PCC BASE COURSE
- (14) SUB-BASE GRANULAR MATERIAL, TYPE B 4"
- (15) PROPOSED CONCRETE MEDIAN SURFACE, 4"

- PROP. DRILL AND GROUT #4 TIE BAR, SHAPE (24" C-C), COST INCLUDED IN CONCRETE CURB AND GUTTER, TYPE B-6.12 PAY ITEM
- PROP. COARSE AGGREGATE FILL TO SUBGRADE (TYP.) COST INCLUDED IN CONC. MEDIAN SURFACE 4" PAY ITEM
- PROP. 5/8" PREFORMED EXPANSION JOINT FILLER - COST INCLUDED IN CONCRETE CURB AND GUTTER, TYPE B-6.12 PAY ITEM
- (19) PAVEMENT REMOVAL (VARIES FROM O' TO 2 ')
- 20 CONCRETE MEDIAN TYPE SB-6.12 (SPECIAL) R-DESIGNATED FOR REMOVAL

NOTES:

* SEE ROADWAY PLAN SHEETS FOR SIDEWALK REMOVAL AND REPLACEMENT LOCATIONS

ITEMS 11-13 HAVE A VARIABLE WIDTH FROM O' TO 5'

ANY SUB-BASE GRANULAR MATERIAL UNDER THE CURB AND GUTTER SHALL NOT BE PAID FOR SEPARATELY BUT WILL BE CONSIDERED AS INCLUDED IN THE COST PER SQUARE YARD OF "SUB-BASE GRANULAR MATERIAL, TYPE B 4"

BITUMINOUS MIXTURE REQUIREMENTS

MIXTURE USE	AC TYPE	MAX RAP. (%)	AIR VOIDS (%)
LEVELING BINDER (HM), SUPERPAVE N70	PG 64-22	10%	4% @ 70 GYR
BIT. CONC. SURFACE COURSE, SUPERPAVE, MIX "D" N70	PG 64-22	10%	4% © 70 GYR

THE UNIT WEIGHT USED TO CALCULATE ALL BITUMINOUS SURFACE MIXTURES IS 112 LBS/SQ YD/IN

	REVISIONS		TI I TNOTS	DEPARTMENT	OF	TRANSPORTATION	
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				YPICAL	SE	CTIONS	
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STA. 50+58 TO STA. 54+26 FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT

LEGEND

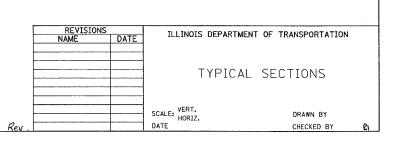
- 1 EXISTING PCC BASE COURSE, 15"(±)
- (2) EXISTING BIT. CONC. SURFACE COURSE, 3"(±)
- (3) EXISTING PCC SIDEWALK, 7"
- 4 EXISTING COMBINATION CONC. CURB & GUTTER, TYPE B-6.12
- (5) EXISTING COMBINATION CONC. CURB & GUTTER, TYPE B-6.24
- (6) EXISTING CRUSHED STONE
- (7) EXISTING PC CONCRETE CURB
- 8 EXISTING CONCRETE MEDIAN SURFACE
- 9 PROPOSED PCC SIDEWALK, 7"
- (10) PROPOSED CONCRETE CURB AND GUTTER, TYPE B-6.12 (SPECIAL)
- (11) PROPOSED 1 1/2" BIT. CONC. SURF. CRSE, SUPERPAVE, MIX "D", N70
- 12 PROPOSED 1" LEVELING BINDER (HM) SUPERPAVE, N70
- (13) PROPOSED 15 1/2" PCC BASE COURSE
- (14) SUB-BASE GRANULAR MATERIAL, TYPE B 4"
- (15) PROPOSED CONCRETE MEDIAN SURFACE, 4"
- PROP. DRILL AND GROUT #4 TIE BAR, SHAPE (24" C-C), COST INCLUDED IN CONCRETE CURB AND GUTTER, TYPE B-6.12 PAY ITEM
- PROP. COARSE AGGREGATE FILL TO SUBGRADE (TYP.) COST INCLUDED IN CONC. MEDIAN SURFACE 4" PAY ITEM
- PROP. 5/8" PREFORMED EXPANSION JOINT (18) FILLER - COST INCLUDED IN CONCRETE
 CURB AND GUTTER, TYPE B-6.12 PAY ITEM
- (19) PAVEMENT REMOVAL (VARIES FROM O' TO 2 ')
- (20) CONCRETE MEDIAN TYPE SB-6.12 (SPECIAL)
- R DESIGNATED FOR REMOVAL

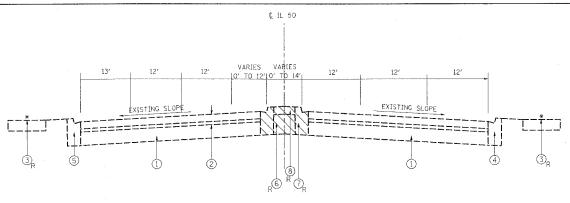
NOTES:

* SEE ROADWAY PLAN SHEETS FOR SIDEWALK REMOVAL AND REPLACEMENT LOCATIONS

ITEMS 11-13 HAVE A VARIABLE WIDTH FROM O' TO 4'

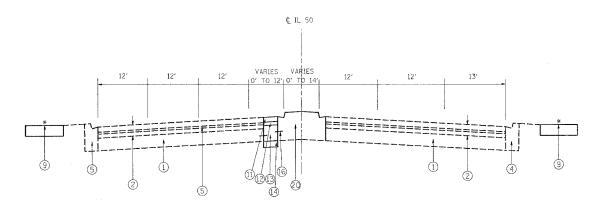
ANY SUB-BASE GRANULAR MATERIAL UNDER THE CURB AND GUTTER SHALL NOT BE PAID FOR SEPARATELY BUT WILL BE CONSIDERED AS INCLUDED IN THE COST PER SQUARE YARD OF "SUB-BASE GRANULAR MATERIAL, TYPE B 4"





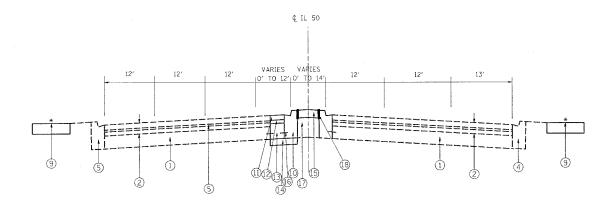
EXISTING TYPICAL SECTION IL 50

STATION 50+58 TO 54+26



PROPOSED TYPICAL SECTION IL 50

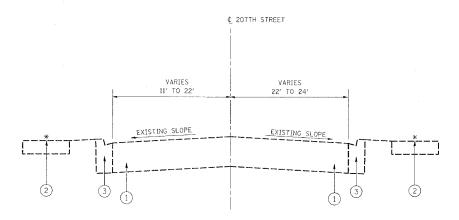
> STATION 50+58 TO 52+61



PROPOSED TYPICAL SECTION IL 50

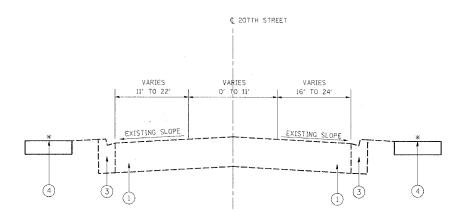
> STATION 52+61 TO 54+26

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EXISTING TYPICAL SECTION 207TH STREET

STATION 16+15 TO 23+80



PROPOSED TYPICAL SECTION 207TH STREET

STATION 16+15 TO 23+80

LEGEND

- 1 EXISTING BIT. CONCRETE, 10"(±)
- ② EXISTING PCC SIDEWALK, 7"
- 3 EXISTING COMBINATION CONC. CURB & GUTTER, TYPE B-6.12
- 4 PROPOSED PCC SIDEWALK, 7"

 $\ensuremath{\mbox{\#}}$ SEE ROADWAY PLAN SHEETS FOR SIDEWALK REMOVAL AND REPLACEMENT LOCATIONS.

REVISIONS
NAME DATE

TYPICAL SECTIONS

SCALE: VERT. DRAWN BY DATE

DATE

DATE

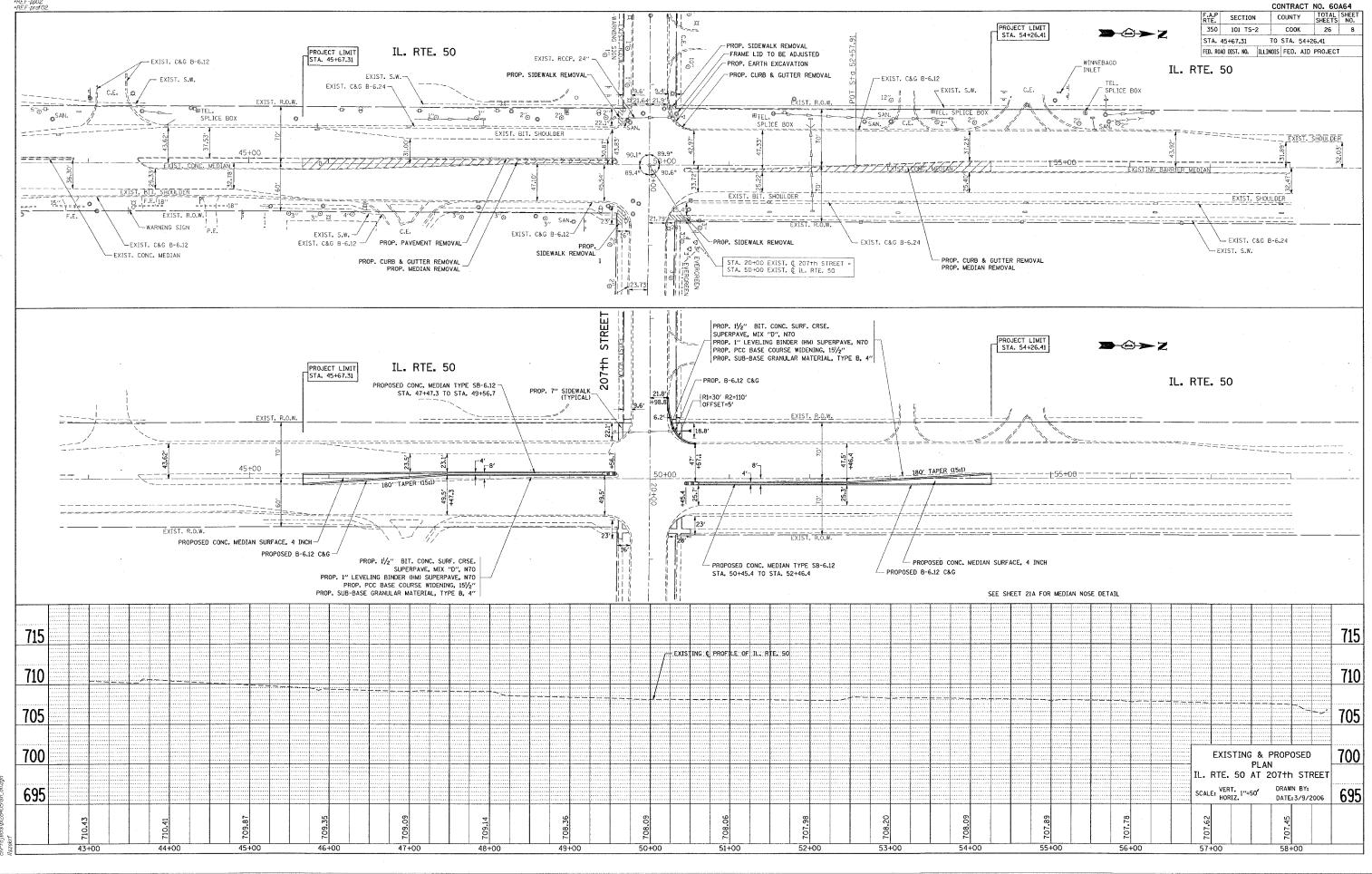
R)

REVISIONS

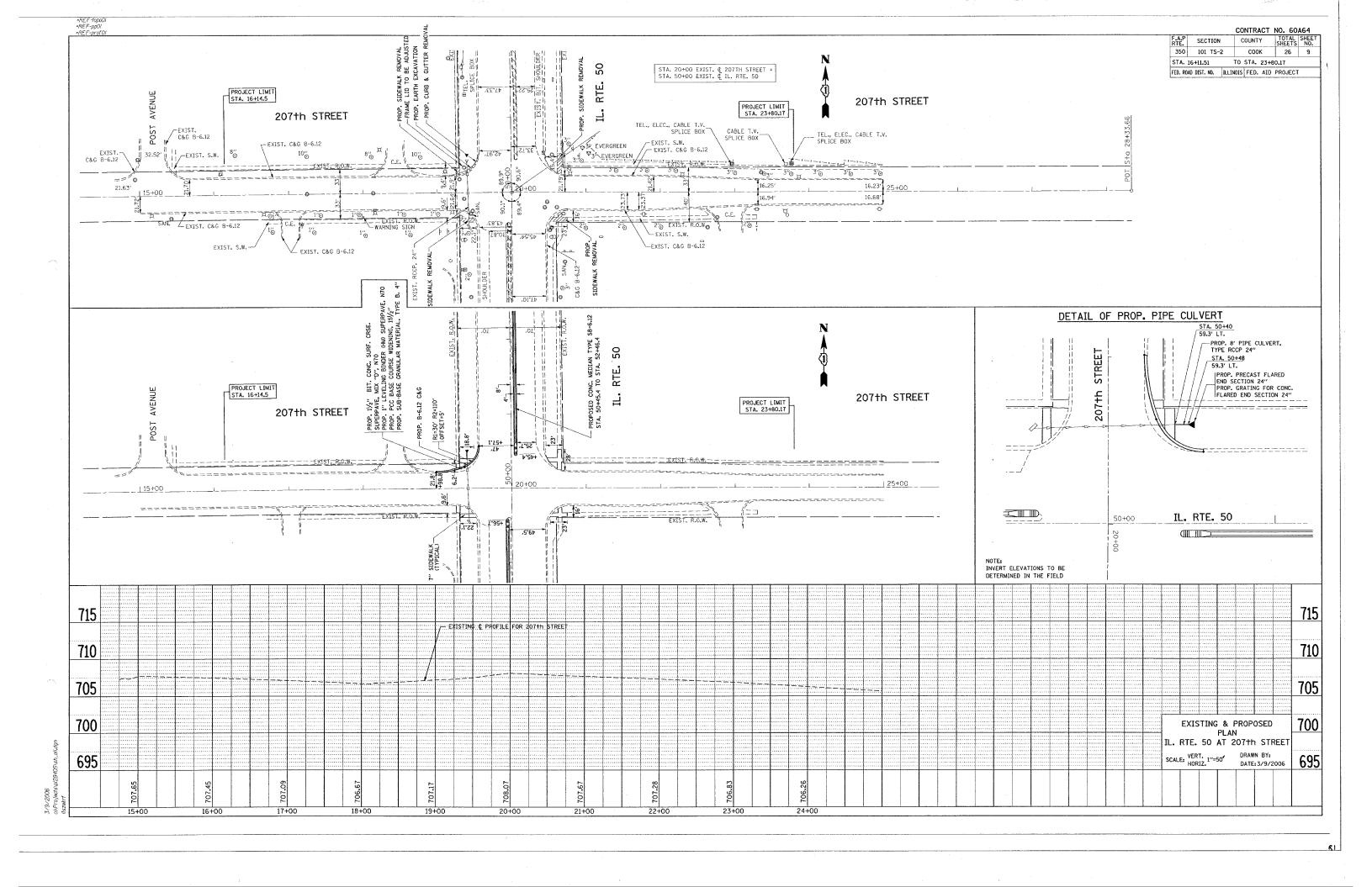
TYPICAL SECTIONS

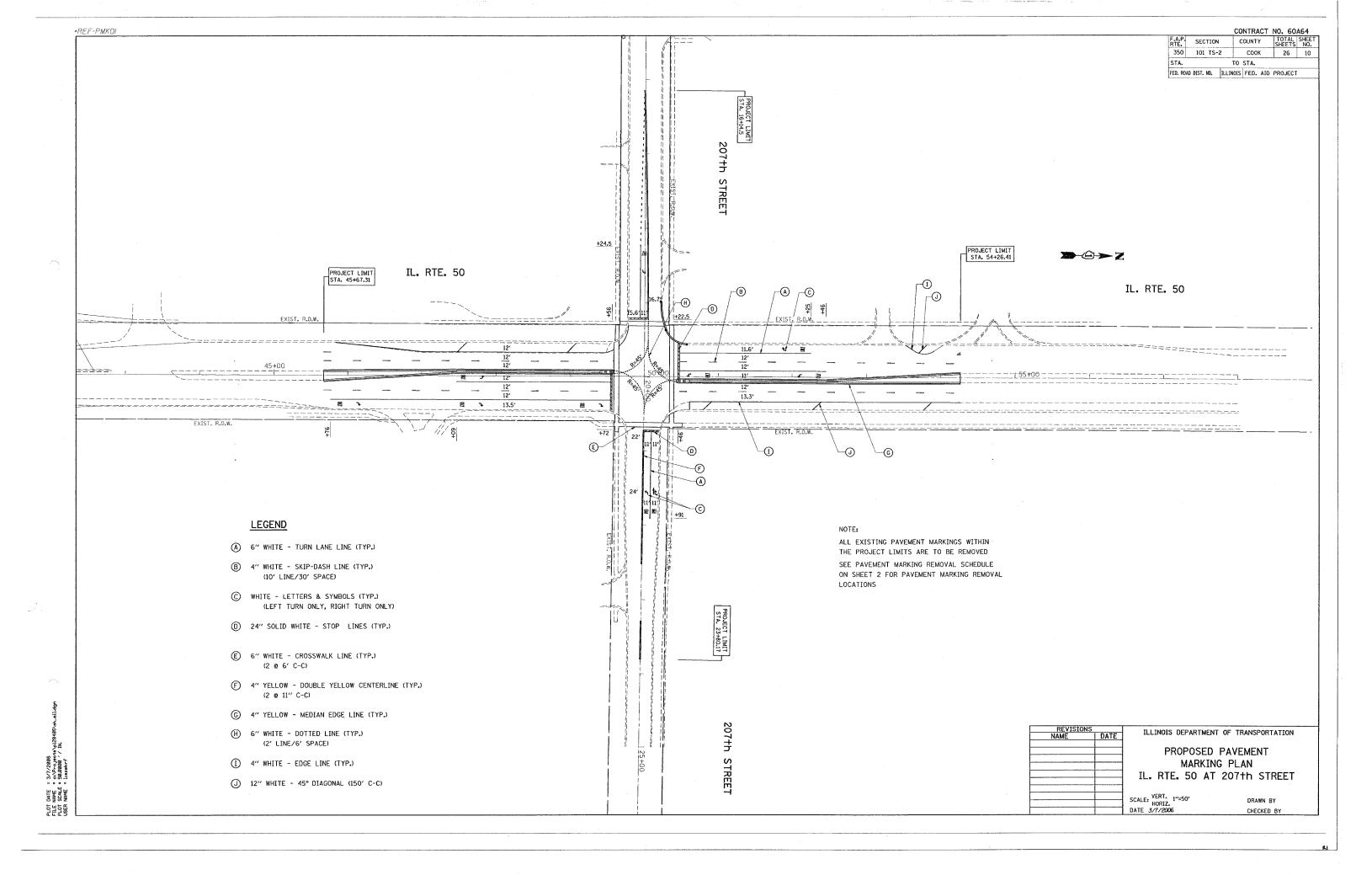
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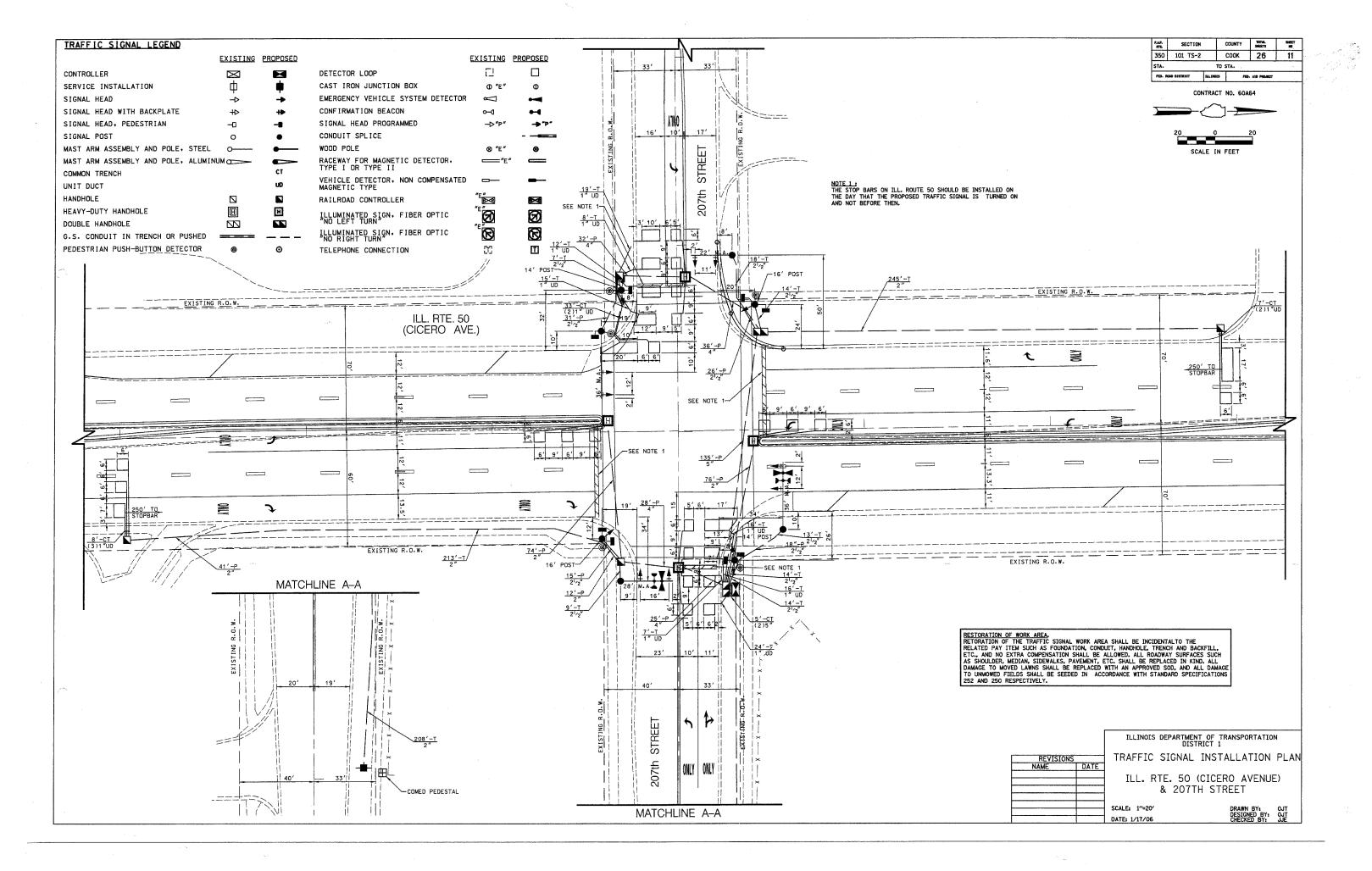
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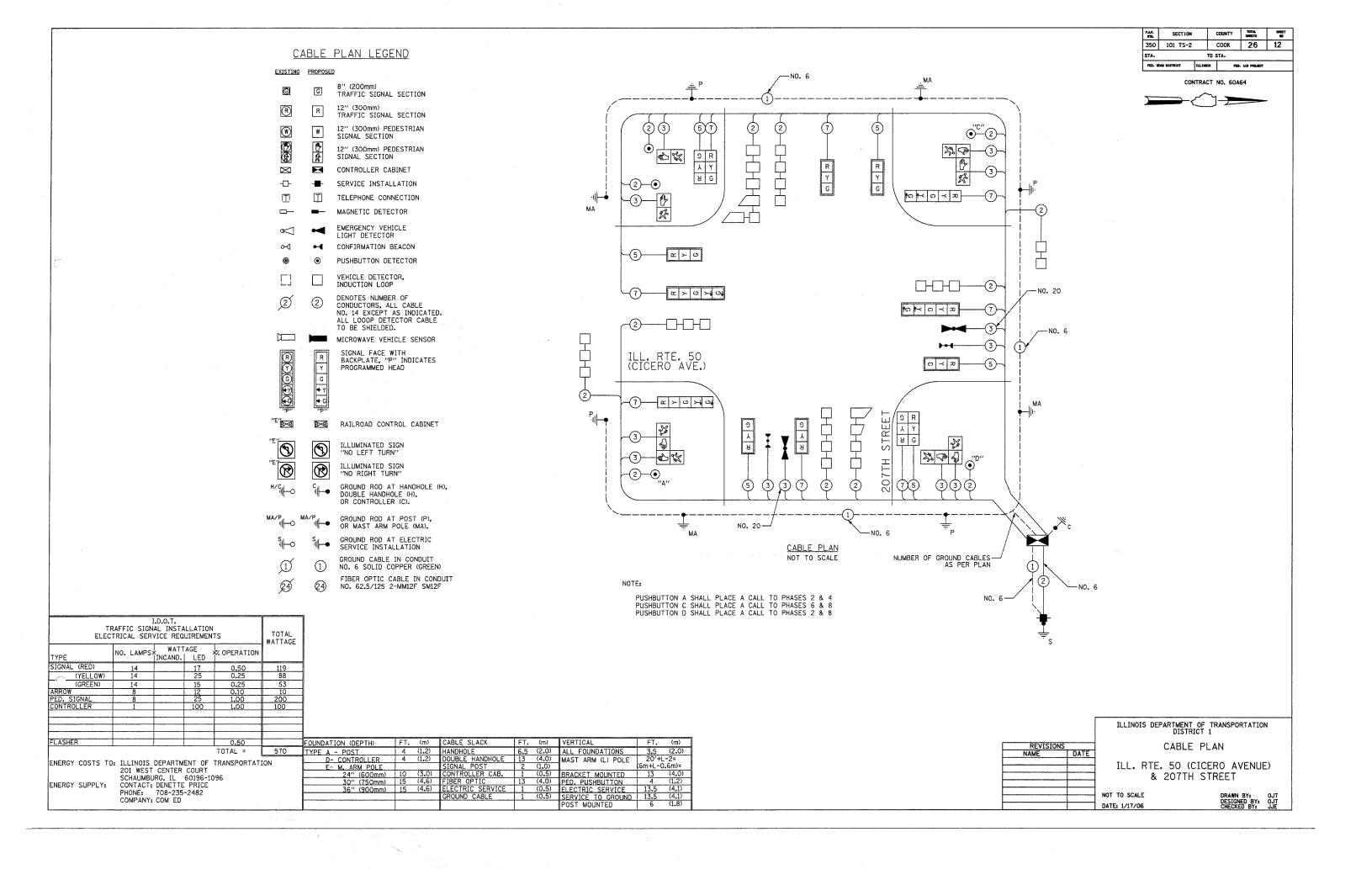


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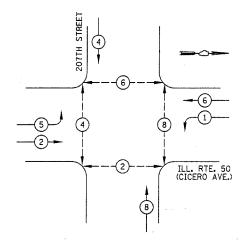




FAP.	SECTION		COUNTY	TOTAL SMEETS	SHEET
350	101 TS-2		COOK	26	13
STA.		TO :	STA-		
FED. NO	AB DISTRICT	11.1300ES	76	D. AID PROJECT	

CONTRACT NO. 60A64

CONTROLLER SEQUENCE



DUAL ENTRY PHASE

SINGLE ENTRY PHASE

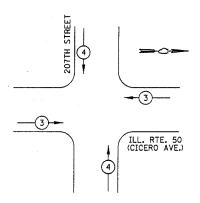
OVERLAP

PEDESTRIAN PHASE

NUMBER REFERS TO ASSOCIATED PHASE

PHASE DESIGNATION DIAGRAM

EMERGENCY VEHICLE PREEMPTION SEQUENCE



	·····	
PROPOSED EMERGENCY VEHIC	LE PREE	MPTORS
EMERGENCY VEHICLE PREEMPTOR	3	4
MOVEMENT		##

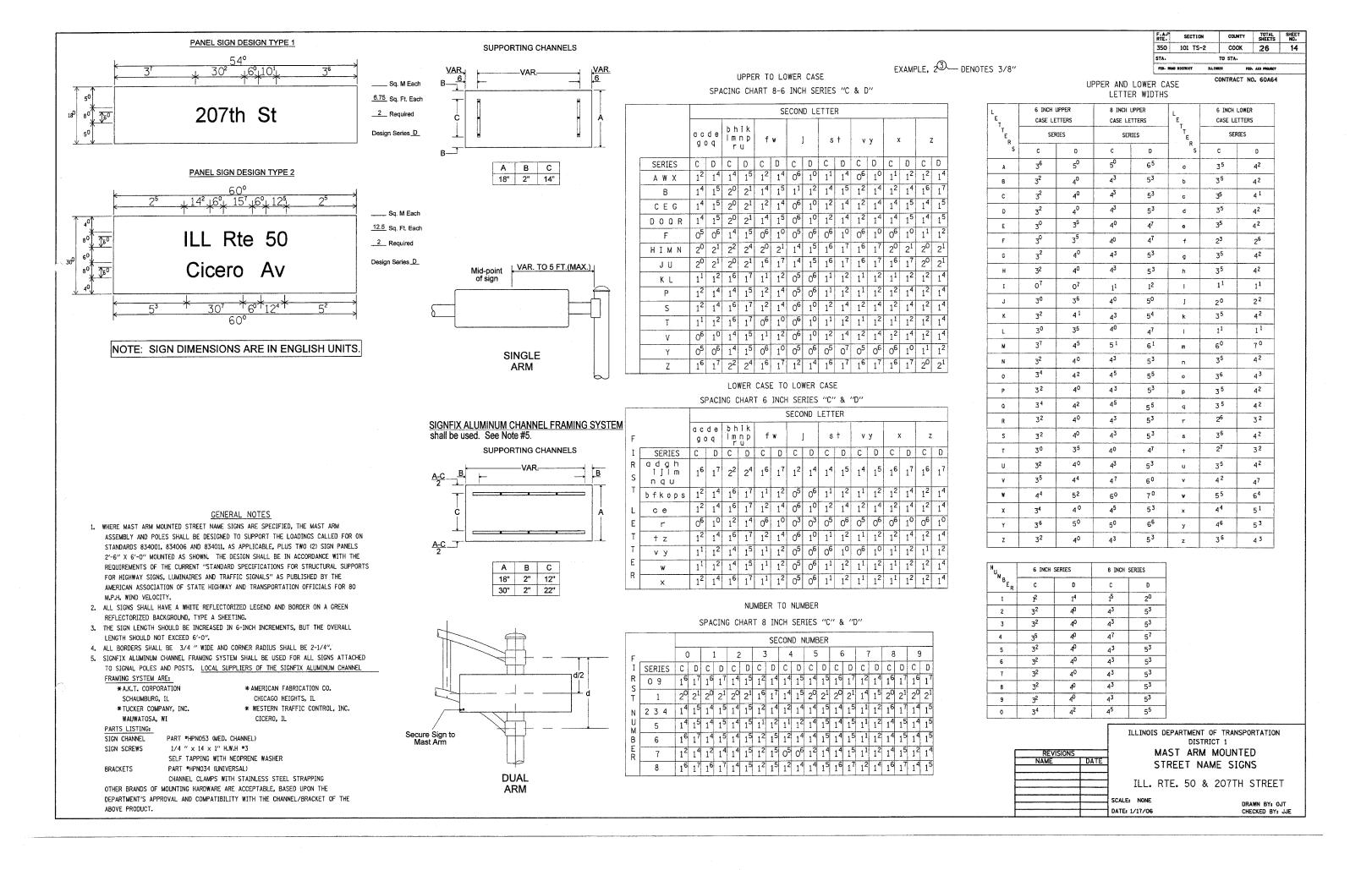
CODE NUMBER	PAY ITEM	UNIT	QUANTITY
72000100	SIGN PANEL- TYPE 1	SQ FT	13.5
72000200	SIGN PANEL- TYPE 2	SQ FT	25
81000600	CONDUIT IN TRENCH, 2" DIA., GALVANIZED STEEL	FOOT	665
81000700	CONDUIT IN TRENCH, 21/2" DIA., GALVANIZED STEEL	FOOT	89
81001100	CONDUIT IN TRENCH, 5" DIA., GALVANIZED STEEL	FOOT	10
81018500	CONDUIT PUSHED, 2" DIA., GALVANIZED STEEL	FOOT	203
81018600	CONDUIT PUSHED, 21/2" DIA., GALVANIZED STEEL	FOOT	90
81018900	CONDUIT PUSHED, 4" DIA., GALVANIZED STEEL	FOOT	121
81019000	CONDUIT PUSHED, 5" DIA., GALVANIZED STEEL	FOOT	135
81400100	HANDHOLE	EACH	4
81400200	HEAVY-DUTY HANDHOLE	EACH	4
81400300	DOUBLE HANDHOLE	EACH	2
81500200	TRENCH AND BACKFILL FOR ELECTRICAL WORK	FOOT	759
	FULL-ACTUATED CONTROLLER AND TYPE IV CABINET	EACH	1
87301215	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	913
87301225	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	1586
87301245	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	1162
87301255	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	1537
87301305	ELECTRIC CABLE IN CONDUIT, LEAD-IN NO. 14 1PAIR	FOOT	1600
87301805	ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C	FOOT	228
87502480	TRAFFIC SIGNAL POST, GALVANIZED STEEL 14 FT.	EACH	2
	TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EACH	2
87700150	STEEL MAST ARM ASSEMBLY AND POLE, 22 FT.	EACH	1
87700180	STEEL MAST ARM ASSEMBLY AND POLE, 28 FT.	EACH	1
87700220	STEEL MAST ARM ASSEMBLY AND POLE, 36 FT.	EACH	2
87800100	CONCRETE FOUNDATION, TYPE A	FOOT	20
87800200	CONCRETE FOUNDATION, TYPE D	FOOT	4
	CONCRETE FOUNDATION, TYPE E 30-INCH DIAMETER	FOOT	60
88200210	TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM	EACH	8
	INDUCTIVE LOOP DETECTOR	EACH	8
	DETECTOR LOOP, TYPE 1	FOOT	1166
	LIGHT DETECTOR	EACH	22
	LIGHT DETECTOR AMPLIFIER	EACH	1
	PEDESTRIAN PUSH-BUTTON	EACH	5
	SERVICE INSTALLATION, GROUND MOUNTED	EACH	1
	ELECTRIC CABLE IN CONDUIT, GROUNDING, NO. 6 1C	FOOT	737
	ELECTRIC CABLE IN CONDUIT NO. 20 3/C, TWISTED, SHIELDED	FOOT	272
	SIGNAL HEAD, L.E.D., 1-FACE, 3-SECTION, MAST ARM MOUNTED	EACH	6
	SIGNAL HEAD, L.E.D., 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	2
	SIGNAL HEAD, L.E.D., 1-FACE, 5-SECTION, MAST ARM MOUNTED	EACH	2
	SIGNAL HEAD, L.E.D., 2-FACE, 3-SECTION, BRACKET MOUNTED	EACH	2
	PEDESTRIAN SIGNAL HEAD, L.E.D., 1-FACE, BRACKET MOUNTED	EACH	2
X8810620	PEDESTRIAN SIGNAL HEAD, L.E.D., 2-FACE, BRACKET MOUNTED	EACH	. 3

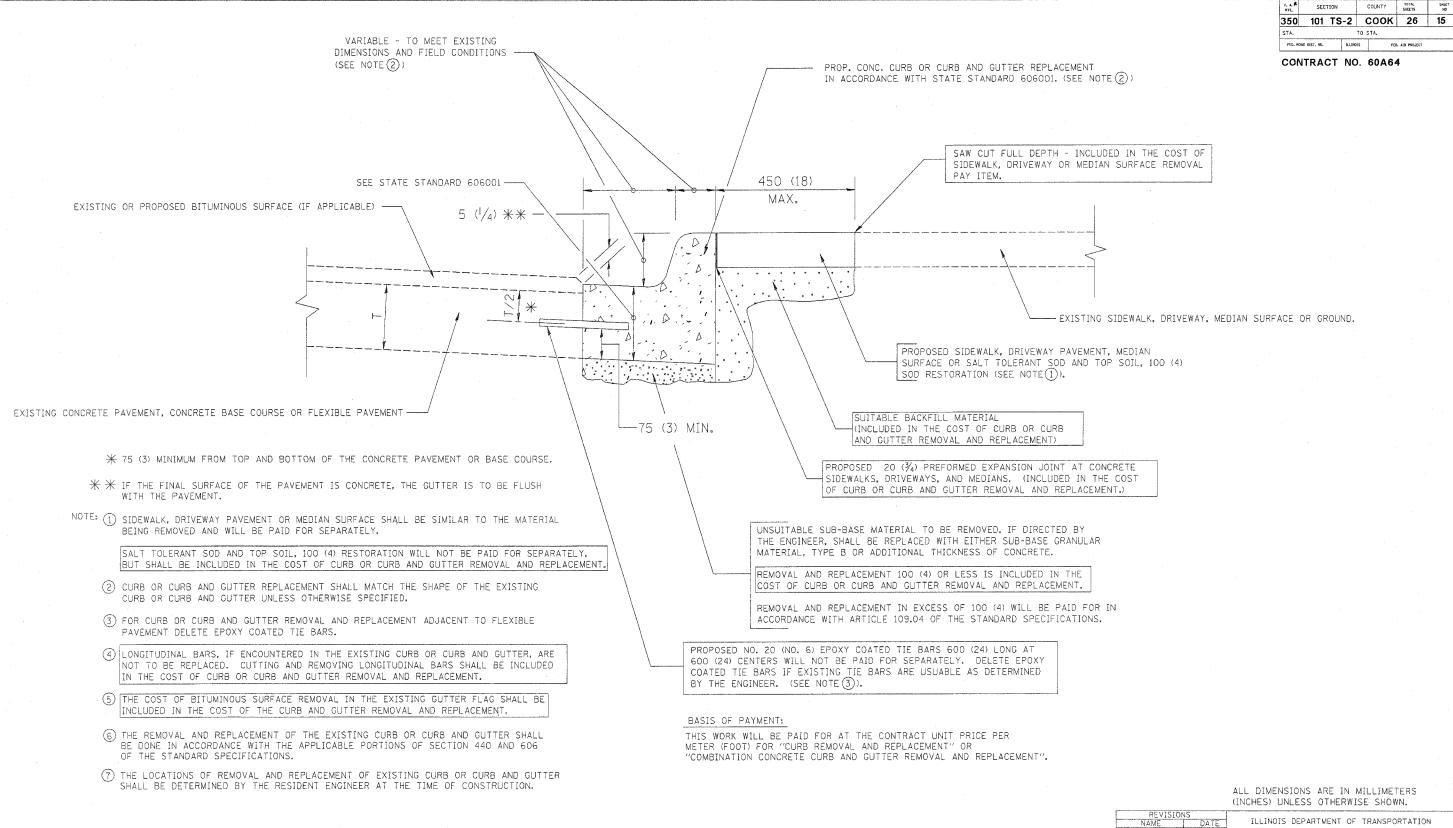
* 100% COST TO VILLAGE OF MATTESON

REVISIONS
NAME DATE
SEQUENCES, &
SCHEDULE OF QUANTITIES
ILL. RTE. 50 (CICERO AVENUE)
& 207TH STREET

NOT TO SCALE DATE: 1/17/06

DRAWN BY: OJT DESIGNED BY: OJT CHECKED BY: JJE





CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT

o:\projects\distatd\bd24.dgn /i=BD24 REVISIONS
NAME DATE
M. DE YONG 05/28/91
A. HOUSEH 03/11/94
R. SHAH 02/24/95
R. SHAH 03/02/95
R. SHAH 08/19/96
R. SHAH 09/12/96
R. SHAH 09/19/96
R. SHAH 10/03/96
A. ABBAS 03/21/97

01/22/01

M. GOMEZ

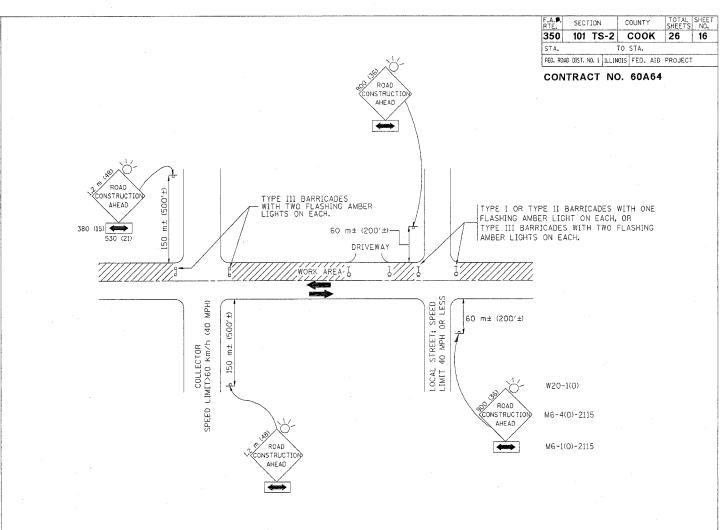
CURB OR
CURB AND GUTTER
REMOVAL AND REPLACEMENT

SCALE: NONE DATE 10/18/200 DRAWN BY

CHECKED BY

BD600-06 (BD-24)

REVISION DATE: 12/06/88



TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS

NOTES:

A. FOR NO LANE RESTRICTION ON THE SIDE ROAD OR DRIVEWAYS

- 1. SIDE ROAD WITH A SPEED LIMIT OF 60 km/h (40 MPH) OR LESS AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
- e) ONE ROAD CONSTRUCTION AHEAD SIGN 900×900 (36x36) WITH A FLASHER AND FLAG MOUNTED ON IT APPROXIMATELY 60 m (200°) IN ADVANCE OF THE MAIN ROUTE.
- b) THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE I, TYPE II OR TYPE III BARRICADES, 1/3 OF THE CROSS SECTION OF THE CLOSED PORTION.
- 2. SIDE ROAD WITH A SPEED LIMIT GREATER THAN 60 km/h (40 MPH) AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
- o) ONE ROAD CONSTRUCTION AHEAD SIGN 1.2 m \times 1.2 m (48 \times 48) WITH A FLASHER MOUNTED ON IT APPROXIMATELY 150 m (500°) IN ADVANCE OF THE MAIN ROUTE.
- b) THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE III BARRICADES, 1/2 OF THE CROSS SECTION OF THE CLOSED PORTION.
- 3. WHEN THE SIDE ROAD LIES BETWEEN THE BEGINNING OF THE MAINLINE SIGNING AND THE WORK ZONE, A SINGLE HEADED ARROW (MG-1) SHALL BE USED IN LIEU OF THE DOUBLE HEADED ARROW (MG-4).

B. FOR A LANE CLOSURE ON A SIDE ROAD OR DRIVEWAY:

- USE APPLICABLE PORTIONS OF THE TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES (STD. 701501, STD. 701606 OR THE APPROPRIATE STANDARD), THE SPACING OF SIGNS AND BARRICADES SHALL BE ADJUSTED FOR FIELD CONDITIONS AS DIRECTED BY THE ENGINEER. THE DIRECTIONAL ARROW SHALL BE COVERED OR REMOVED WHEN NO LONGER CONSISTENT WITH THE SIDE ROAD LANE CLOSUME.
- C. ADVANCE WARNING SIGNS ARE TO BE OMITTED ON DRIVEWAY UNLESS OTHERWISE NOTED.
- D. THE TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS SHALL BE INCIDENTAL TO THE COST OF SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.

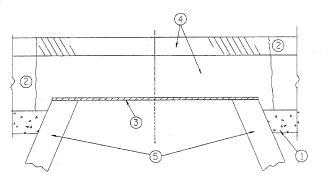
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J. OBERLE	10/18/95		FOR	
A. HOUSEH	03/06/96	CTDE DO 100	INTERCEPTIONS AND	
A. HOUSEH	10/15/96	SIDE KUADS,	INTERSECTIONS, AN	IU
T. RAMMACHER	01/06/00	r	RIVEWAYS	
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		DATE 10/18/2002	CHECKED BY	

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REVISION DATE: 01/06/00

F. A. P 87E.	SEC	TION	COUNTY	TOTAL SHEETS	SHEE!
350	101	TS-2	COOK	26	16A
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FFO. POAT	DIST, NO.	ILLINOIS	FF	AID PROJECT	

CONTRACT NO. 60A64



300 (12) MIN. PROPOSED PROPOSED SAND FILL BRICK, MORTAR, OR CONC. ADJUSTING RINGS PROPOSED

NOTES:

EXISTING BROKEN FRAMES AND LIDS SHALL BE REMOVED AND DISPOSED OF BY THE CONTRACTOR AND SHALL BE REPLACED AS DIRECTED BY THE ENGINEER. REPLACEMENT FRAMES AND LIDS WILL BE PAID FOR IN ACCORDANCE WITH ARTICLE 109,04 OF THE STANDARD SPECIFICATIONS UNLESS A SEPARATE PAY ITEM HAS BEEN PROVIDED.

IF THE EXISTING LIDS ARE OPEN, THE FRAME WILL 8E ADJUSTED TO THE ELEVATION OF THE MILLED PAVEMENT SURFACE PRIOR TO THE MILLING OPERATION. THE FRAME WILL NOT BE REMOVED AND COVERED BY THE METAL PLATE.

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

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

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

CONSTRUCTION PROCEDURES

STAGE 1 (BEFORE PAVEMENT MILLING)

- A) REMOVE A MINIMUM OF 300 (12) OF THE PAVEMENT FROM AROUND THE STRUCTURE.
- B) REMOVE THE EXISTING FRAME AND LID FROM THE STRUCTURE.
- C) COVER THE STRUCTURE OPENING WITH A 900 (36) DIAMETER METAL PLATE.
- D) BACKFILL WITH CRUSHED STONE AND A MINIMUM 40 (1 $^{\prime\prime}_{2}$) THICK BITUMINOUS MATERIAL APPROVED BY THE ENGINEER.

STAGE 2 (AFTER PAVEMENT MILLING)

- A) REMOVE THE BITUMINOUS MATERIAL AND CRUSHED STONE.
- B) INSTALL THE FRAME AND LID; ADJUST THE FRAME TO ITS FINAL SURFACE ELEVATION.
- C) THE SURROUNDING SPACE SHALL BE FILLED WITH CLASS SI CONCRETE, OR BITUMINOUS CONCRETE SURFACE OR BINDER COURSE MATERIAL TO THE ELEVATION OF THE SURFACE OF THE EXISTING BASE COURSE OR THE BINDER COURSE.

THE PROCEDURE EXPLAINED ABOVE SHALL CONFORM TO THE APPLICABLE PORTIONS OF SECTIONS 353, 406, 602, AND 603 OF THE STANDARD SPECIFICATIONS.

LEGEND

- 1 SUB-BASE GRANULAR MATERIAL
- 2 EXISTING PAVEMENT
- 3 900 (36) DIAMETER METAL PLATE
- PROPOSED CRUSHED STONE AND BITUMINOUS MATERIAL
- 5 EXISTING STRUCTURE
- (6) FRAME AND LID (SEE NOTES)
- CLASS SI CONCRETE, BITHMINOUS CONCRETE SURFACE OR BINDER COURSE MATERIAL
- 8 PROPOSED BITUMINOUS CONCRETE SURFACE COURSE
- 9 PROPOSED BITUMINOUS CONCRETE BINDER COURSE

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

BASIS OF PAYMENT: FRAMES AND LIDS TO BE ADJUSTED. SPECIAL EACH

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

DETAILS FOR FRAMES AND LIDS ADJUSTMENT WITH MILLING

ALL DIMENSIONS ARE IN MILLIMETERS (INCHES) UNLESS OTHERWISE SHOWN

ILLINOIS DEPARTMENT OF TRANSPORTATION

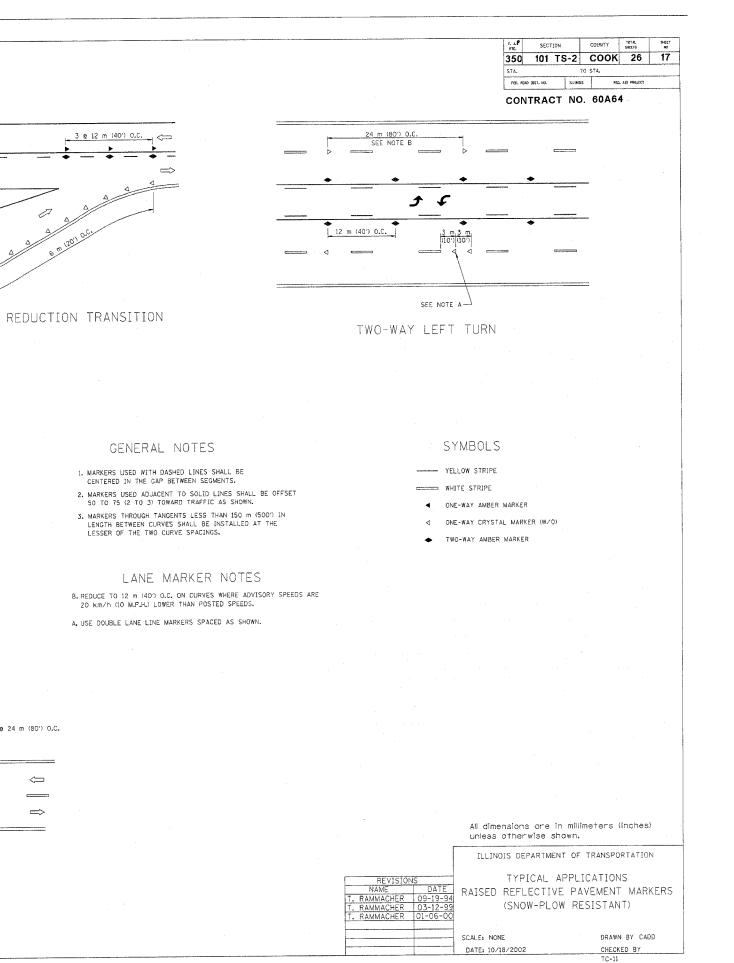
DETAILS FOR FRAMES AND LIDS ADJUSTMENT WITH MILLING

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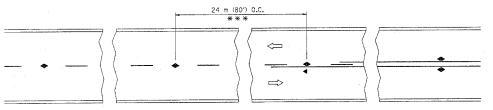
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REVISION DATE: 05/17/04

05/17/2004 K:\diststa\bd08.dgn VI=BD8

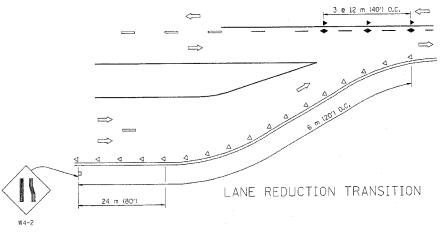


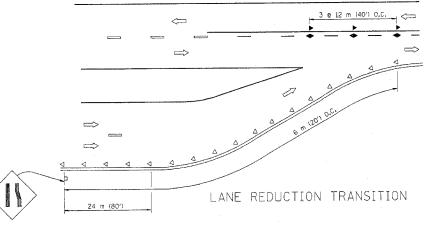
REVISION DATE: 01/06/00



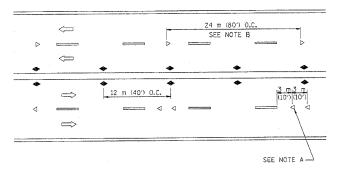
*** REDUCE TO 12 m (40') O.C. ON CURVES WITH POSTED OR ADVISORY SPEED 70 km/h (45 M.P.H.) OR LESS.

TWO-LANE/TWO-WAY

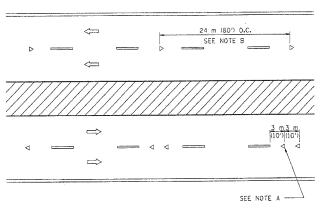




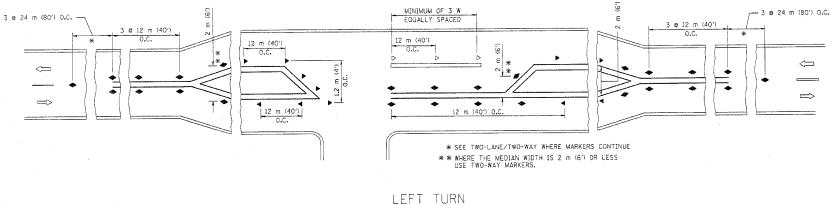


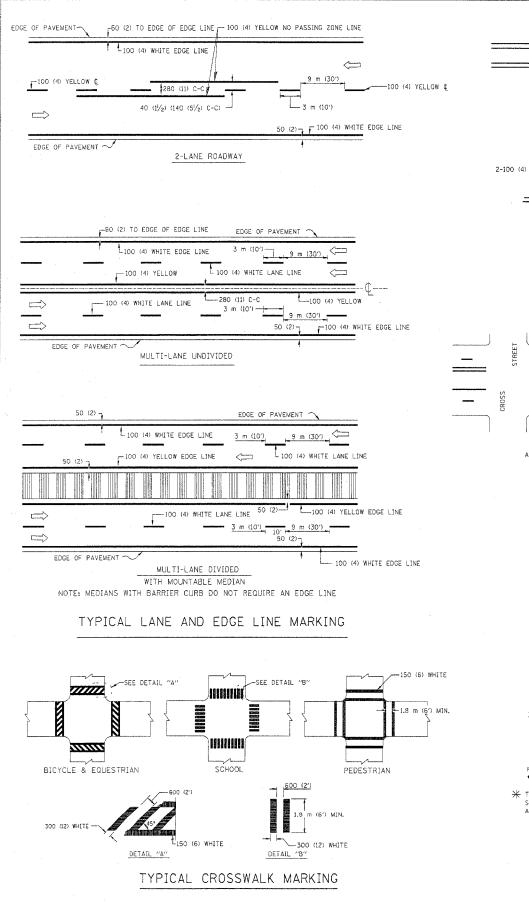


MULTI-LANE/UNDIVIDED



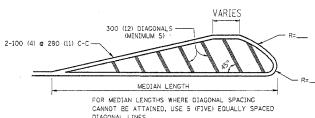
MULTI-LANE/DIVIDED





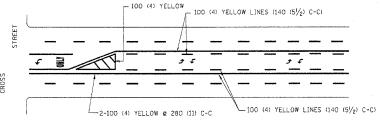
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DIAGONAL LINE SPACING: 15 m (50') C-C (LESS THAN 50 km/h (30 MPH))
25 m (75') C-C (50 km/h (30 MPH) TO 70 km/h (45 MPH))
45 m (150') C-C (MORE THAN 70 km/h (45 MPH))

MEDIANS OVER 1.2 m (4') WIDE

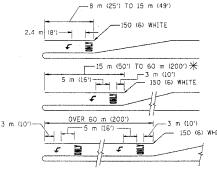


A MINIMUM OF TWO PAIRS OF TURN ARROWS SHALL BE USED, WHITE IN COLOR. ADDITIONAL PAIRS SHALL BE PLACED AT 60 m (200') TO 90 m (300') INTERVALS.



MEDIAN WITH TWO-WAY LEFT TURN LANE

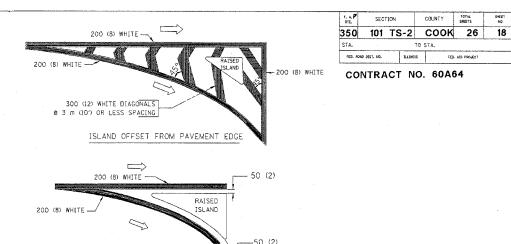
TYPICAL PAINTED MEDIAN MARKING



* TURN LANES IN EXCESS OF 120 m (400") IN LENGTH MAY HAVE AN ADDITIONAL SET OF ARROW - "ONLY" INSTALLED MIDWAY BETWEEN THE OTHER TWO SETS OF ARROW - "ONLY".

TYPICAL LEFT (OR RIGHT) TURN LANE

TYPICAL TURN LANE MARKING



TYPICAL ISLAND MARKING

ISLAND AT PAVEMENT EDGE

		,	,	
TYPE OF MARKING	WIDTH OF LINE	PATTERN	COLOR	SPACING / REMARKS
CENTERLINE ON 2 LANE PAVEMENT	100 (4)	SKIP-DASH	YELLOW	3 m (10') LINE WITH 9 m (30') SPACE
CENTERLINE ON MULTI-LANE UNDIVEDED PAVEMENT	2 @ 100 (4)	SOLID	YELLOW	280 (II) C-C
NO PASSING ZONE LINES: FOR ONE DIRECTION FOR BOTH DIRECTIONS	100 (4) 2 @ 100 (4)	SOLID SOLID	YELLOW YELLOW	140 (5)/2) C-C FROM SKIP-DASH CENTERLINE 280 (11) C-C OMIT SKIP-DASH CENTERLINE BETWEEN
LANE LINES	100 (4) 125 (5) ON FREEWAYS	SKIP-DASH SKIP-DASH	WHITE WHITE	3 m (10") LINE WITH 9 m (30") SPACE
DOTTED LINES (EXTENSIONS OF CENTER, LANE OR TURN LANE MARKINGS)	SAME AS LINE BEING EXTENDED	SKIP-DASH	SAME AS LINE BEING EXTENDED	600 (2') LINE WITH 1.8 m (6') SPACE
EDGE LINES	100 (4)	SOLID	YELLOW-LEFT WHITE-RIGHT	OUTLINE MOUNTABLE MEDIANS IN YELLOW: EDGE LINES ARE NOT USED NEXT TO BARRIER CURB
TURN LANE MARKINGS	150 (6) LINE; FULL SIZE LETTERS & SYMBOLS (2.4 m (8'))	SOLID	WHITE	SEE TYPICAL TURN LANE MARKING DETAIL
TWO WAY LEFT TURN MARKING	2 & 100 (4) EACH DIRECTION	SKIP-DASH AND SOLID	YELLOW	3 m (10") LINE WITH 9 m (30") SPACE FOR SKIP-DASH; 140 (5½) C-C BETWEEN SOLID LINE AND SKIP-DASH LINE
	2.4 m (8') LEFT ARROW	IN PAIRS	WHITE	SEE TYPICAL TWO-WAY LEFT TURN MARKING DETAIL
CROSSWALK LINES (PEDESTRIAN) A. DIAGONALS (BIKE & EQUESTRIAN) B. LONGITUDINAL BARS (SCHOOL)	2 @ 150 (6) 300 (12) @ 45° 300 (12) @ 90°	SOLID SOLID SOLID	WHITE WHITE WHITE	NOT LESS THAN 1.8 m (6') APART 600 (2') APART 600 (2') APART SEE TYPICAL CROSSWALK MARKING DETAILS.
STOP LINES	600 (24)	SOLID	WHITE	PLACE 1.2 m (4') IN ADVANCE OF AND PARALLEL TO CROSSWALK, IF PRESENT. OTHERWISE, PLACE AT DESIRED STOPPING POINT. PARALLEL TO CROSSROAD CENTERLINE, WHERE POSSIBLE
PAINTED MEDIANS	2 @ 100 (4) WITH 300 (12) DIAGONALS	SOLID	YELLOW: TWO WAY TRAFFIC	280 (11) C-C FOR THE DOUBLE LINE
	0 45° NO DIAGONALS USED FOR 1.2 m (4') WIDE MEDIANS		WHITE: ONE WAY TRAFFIC	SEE TYPICAL PAINTED MEDIAN MARKING.
GORE MARKING AND CHANNELIZING LINES	200 (8) WITH 300 (12) DIAGONALS @ 45°	SOLID	WHITE	DIAGONALS: 4.5 m (15') C-C (LESS THAN 50 km/h (30 MPH)) 6 m (20') C-C (50 km/h (30 MPH) TO 70 km/h (45 MPH)) 9 m (30') C-C (OVER 70 km/h (45 MPH))
RAILROAD CROSSING	600 (24) TRANSVERSE LINES: "RR" IS 1.8 m (6") LETTERS: 400 (16) LINE FOR "X"	SOLID	WHITE	SEE STATE STANDARD 780001 AREA OF: "X"=0.33m2 (3.6 SO. FT.) EACH "X"=5.0 m2 (54.0 SO. FT.)
SHOULDER DIAGONALS	300 (L2) @ 45°	SOLID	WHITE - RIGHT YELLOW - LEFT	15 m (50') C-C (LESS THAN 50 km/h (30 MPH)) 25 m (75') C-C (50 km/h (30 MPH) TO 70 km/h (45 MPH)) 45 m (150') C-C (OVER 70 km/h (45 MPH))

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

All dimensions are in millimeters (inches)

ILLINOIS DEPARTMENT OF TRANSPORTATION

DISTRICT ONE

REVISIONS

AME DATE

O3-19-90

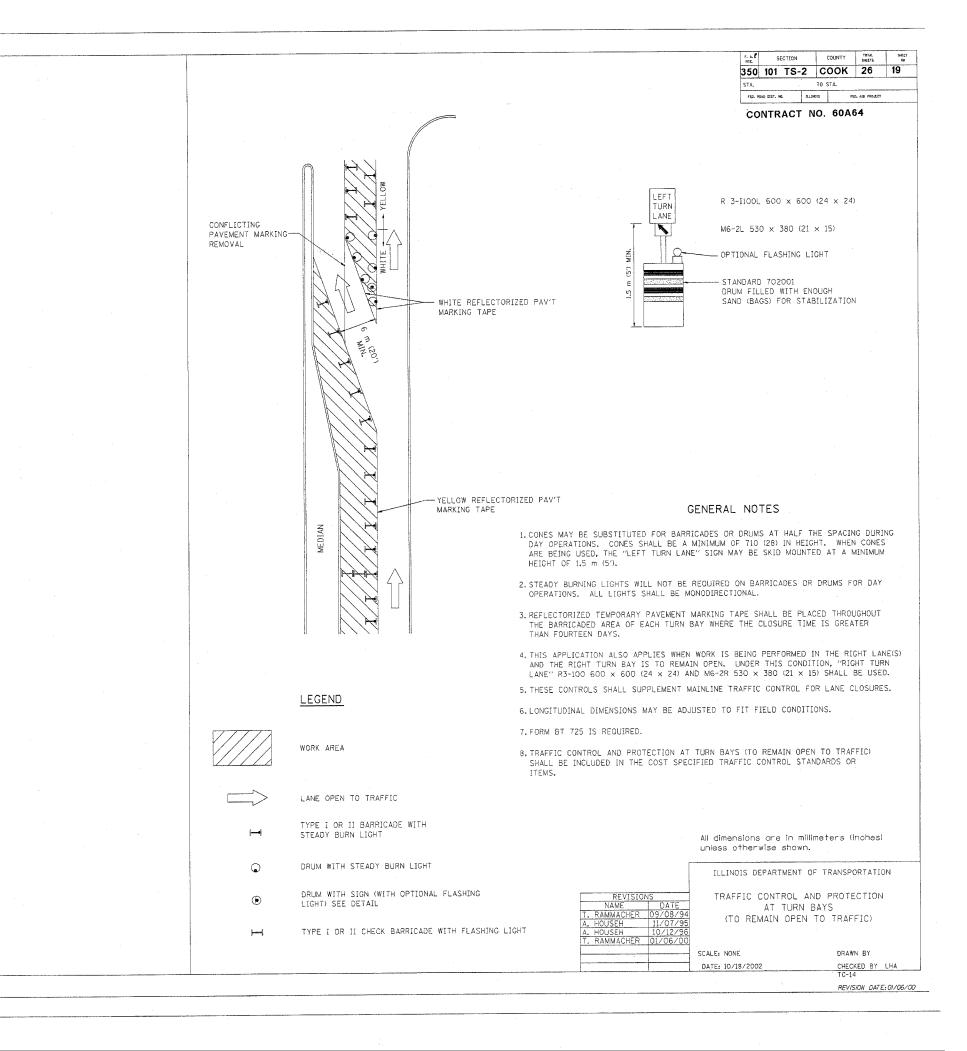
WACHER 10-27-94

OUSEH 10-17-96

DUSEH 10-17-96

SCALE: NONE DATE 10/18/2002 DRAWN BY CADD CHECKED BY TC-13

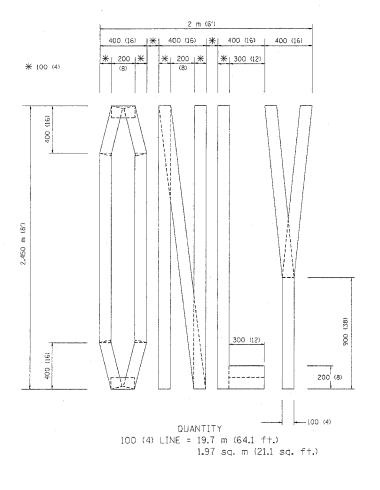
REVISION DATE: 01/06/00

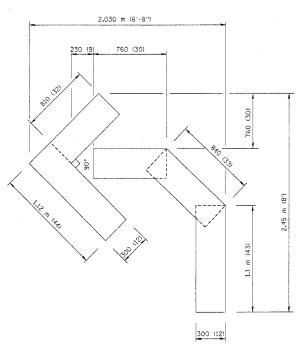


DATE-TIME *DGN-SPEC* VI-TCI4

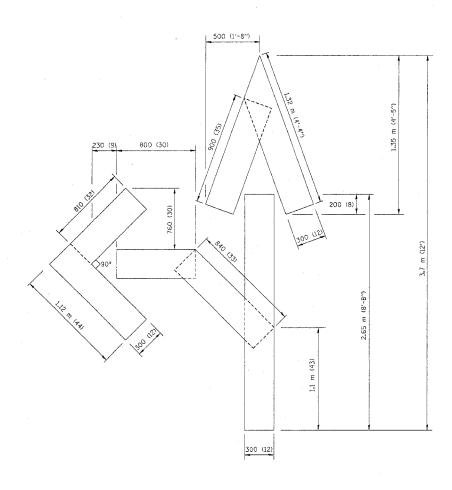
F. A.P RTE.	SECTION				TOTAL SHEETS	SHEET NO
350	101	TS-2	C	ook	26	20
STA.			TO :	STA.		
FED. ROAD DIST. NO. JLLEN		NDIS	PE	D. AID PROJECT		

CONTRACT NO. 60A64





QUANTITY 100 (4) LINE = 13.9 m (45.5 ft.) 1.39 sq. m (15.2 sq. ft.)



OUANTITY 100 (4) LINE = 25.3 m (82.5 ft.) 2.53 sq. m (27.5 sq. ft.)

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

ILLINOIS DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING

O9/18/94

O6/01/96

O6/05/96

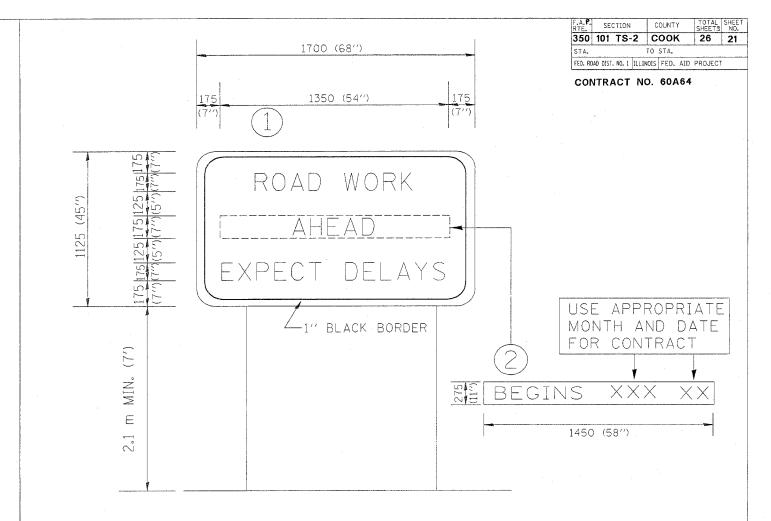
PAVEMENT MARKING

LETTERS AND SYMBOLS

FOR TRAFFIC STAGING

SCALE: NONE DATE 10/18/2 DRAWN BY CADD CHECKED BY TC-16

REVISION DATE: 08/28/00



NOTES

- 1. USE BLACK LETTERING ON ORANGE BACKGROUND.
- 2. ERECT SIGNS IN ADVANCE OF THE LOCATION FOR THE "ROAD CONSTRUCTION AHEAD" SIGN AT LOCATIONS AS DIRECTED BY THE ENGINEER.
- 3. ERECT SIGN (1) WITH INSTALLED PANEL (2) ONE WEEK PRIOR TO THE START OF CONSTRUCTION.
- 4. REMOVE PANEL ② SOON AFTER THE START OF CONSTRUCTION.
- 5. SEE SPECIAL PROVISION FOR "TEMPORARY INFORMATION SIGNING" FOR ADDITIONAL INFORMATION.
- 6. ONE SIGN ASSEMBLY EQUALS 2.3 SQ. M. (25.70 SQ. FT.)

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

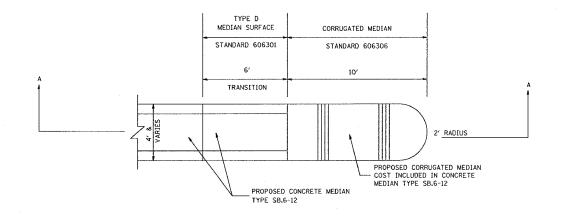
REVISIONS
NAME DATE
R. MIRS 9-15-97
R. MIRS 12-11-91
T. RAMMACHER 2-2-99

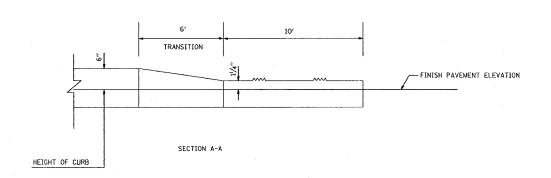
SCALE: DRAWN BY; BUR. OF DESIGN
DATE 10/18/2002 CHECKED BY

REVISION DATE: 02/02/99

Friday October 18, 2002 & 10:25:17 AM c:\projects\diststd\tc22.dgn LV=35,63 VI=TC22

| CONTRACT NO. 60A64 | F.A.P. | SECTION | COUNTY | SHEETS | NO. 1 | STA. | STA. | TO STA. | STA. | TO STA. | STA.





REVISIONS NAME	DATE	ILLINOIS DEPART	TMENT OF TRANSPORTATION	
		MEDIAN	NOSE DETAIL	
		SCALE: VERT. HORIZ. DATE 3/8/2006	DRAWN BY CHECKED BY	

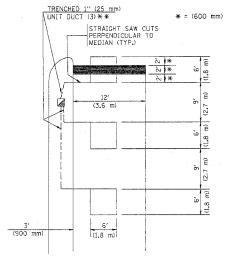
3/8/2006 c:BprojectsBp128405Bdesignaa.m32 smithki

PROVIDE A PAVEMENT REPLACEMENT NOTE WHICH SHOULD EQUAL 3' (900 mm) X WIDTH OF PAVED SHOULDER. PAVED OR NON-PAVED SHOULDER 1'' (1.5 m) (1.8 m) (1.5 m) * 10' 10' 10' (3.0 m) (3.0 m) ** * UNIT DUCT IS TO BE SHOWN ON PLAN SHEETS BUT SHALL NOT BE INCLUDED IN THE PAY ITEMS.

LEFT TURN LANES WITH MEDIANS VOLUME DENSITY ("FAR OUT" DETECTION) ON SAME APPROACH

(PROTECTED / PERMITTED LEFT TURN PHASING)

HANDHOLE LOCATION MAY
VARY DEPENDING ON GEOMETRICS
AND DESIGN OF TRAFFIC SIGNALS.
HEAVY-OUTY HANDHOLES TO BE
USED WHEN THE MEDIAN IS
MOUNTABLE. REFER TO STANDARD
814001 TO ENSURE THAT HANDHOLE
FITS IN MEDIAN.



** UNIT DUCT IS TO BE SHOWN ON PLAN SHEETS

NOTE: DUAL LEFT TURNS NOT SHOWN REFER TO

BUT SHALL NOT BE INCLUDED IN THE PAY ITEMS.

PLAN SHEET FOR DETECTOR LOOP REPLACEMENT

LEFT TURN LANES WITHOUT MEDIANS
VOLUME DENSITY ("FAR OUT" DETECTION)
ON SAME APPROACH

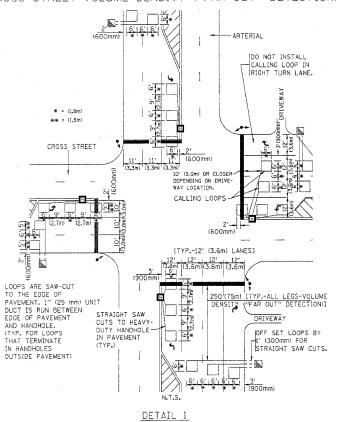
(PROTECTED / PERMITTED LEFT TURN PHASING)

= (600 mm)

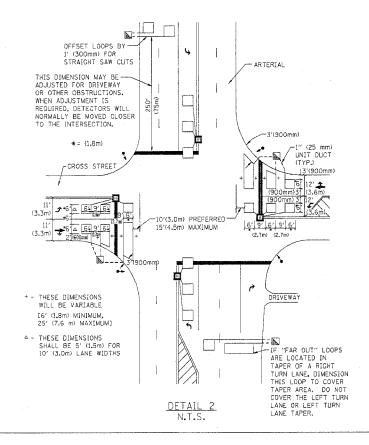
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NOTE: DUAL LEFT TURNS NOT SHOWN REFER TO PLAN SHEET FOR DETECTOR LOOP REPLACEMENT

ARTERIAL-VOLUME DENSITY ("FAR OUT" DETECTION)
CROSS STREET-VOLUME DENSITY ("FAR OUT" DETECTION)



ARTERIAL-VOLUME DENSITY ("FAR OUT" DETECTION)
CROSS STREET-NON VOLUME DENSITY ("UPTIGHT" PRESENCE DETECTION)



| r, r| SECTION | COUNTY | STRITE | SECTION |

CONTRACT NO. 60A64

NOTES:

VEHICLES LOOP DETECTORS

- * ALL LEAD IN CABLE SHALL BE TWO CONDUCTOR NO. 14 TWISTED, SHIELDED.
- * EACH DETECTOR LOOP SHALL HAVE ITS OWN SAW CUT FROM THE LOOP TO THE EDGE OF PAVEMENT OR TO A HANDHOLE IN THE PAVEMENT.
- * EACH DETECTOR LOOP SHALL HAVE ITS OWN ONE INCH (25 mm) UNIT DUCT BETWEEN THE EDGE OF PAVEMENT AND THE FIRST HANDHOLE OR JUNCTION BOX. EACH UNIT DUCT RUN SHALL BE SHOWN ON THE PLANS BY THE DESIGNER, BUT SHALL NOT BE PAID FOR SEPARATLY. THIS ITEM IS INCIDENTAL TO THE PAY ITEM FOR DETECTOR LOOPS.
- * ONE DIMENSION OF \underline{ALL} DETECTOR LOOPS SHALL BE SIX FEET (i.8 m)
- * EACH LANE OF NON-LOCKING, PRESENCE DETECTION AND EACH LANE OF A DOUBLE LEFT TURN LANE REQUIRES A SEPARATE INDUCTIVE LOOP DETECTOR AND LEAD IN CABLE.
- * WHEN NON-LOCKING, PRESENCE DETECTION IS USED, MORE THAN ONE LOOP PER LANE IS REQUIRED BEHIND THE STOP BAR (I.e. 1-1/2, 1-3/4, 2).
- * WHEN SYSTEM LOOPS ARE REQUIRED ON AN APPROACH OF AN INTERSECTION, THE LOOPS USED FOR VOLUME DENSITY AND INTERSECTION TIMING SHALL ALSO BE USED AS SYSTEM DETECTORS, <u>EACH</u> ONE OF THESE TYPE OF LOOPS REQUIRES A <u>SEPARATE</u> TWO CONDUCTOR NO, 14 TWISTED SHIELDED CABLE AND A <u>SEPARATE</u> INDUCTIVE LOOP DETECTOR WHEN NEW CONTROLLERS ARE UTILIZED, THE DESIGNER SHALL LABEL THESE TYPES OF LOOPS AS "INTERSECTION AND SAMPLING (SYSTEM) DETECTORS" ON THE SIGNAL LAYOUT, THE INTERCONNECT PLAN AND THE SYSTEM CABLE PLAN. WHEN AN EXISTING CONTROLLER IS UTILIZED FOR THIS TYPE OF DETECTION, THE PAY ITEM "INDUCTIVE LOOP DETECTOR WITH SYSTEM OUTPUT" SHOULD BE USED.

PLACEMENT OF DETECTORS

THE FOLLOWING FIGURES REPRESENT THE MOST COMMON DETECTOR LOOP LOCATIONS AND SIZES. ADJUSTMENTS WILL BE NECESSARY FOR SPECIFIC GEOMETRIC CONSIDERATIONS.

LOCATIONS AND DEMENSIONS OF DETECTOR LOOPS ARE REQUIRED ON ALL SIGNAL LAYOUT PLAN SHEETS.

"FAR OUT" DETECTION REFERS TO LOCKING, PRESENCE TYPE DETECTION LOCATED IN THRU LANES, RIGHT TURN LANES, AND RIGHT TURN LANE TAPER AREAS (IF APPLICABLE), USUALLY 250' (75 m) IN ADVANCE OF STOP BARS, "UPTIGHT" DETECTION REFERS TO NON-LOCKING PRESENCE TYPE DETECTION LOCATED IN ALL LANES AND 10'-15' (3.0 m-4.5 m) BEHIND THE CROSSING STREET'S EDGE OF PAVEMENT EXTENDED.

NOTE:

ALL DETAILS AND NOTES SHOWN ARE FROM THE I.D.O.T. DISTRICT 1
TRAFFIC SIGNAL DESIGN GUIDELINES DATED JANUARY 1995

THIS DRAWING HAS BEEN PREPARED TO ASSIST THE RESIDENT ENGINEER FOR ALL ROADWAY RESURFACING OR S.M.A.R.T. PROJECTS WHERE THE DIMENSIONS ARE NOT SHOWN ON THE PLANS AND THE FINAL LOCATIONS FOR CROSSWALKS OR STOP BARS ARE NOT DETERMINED.

	ILLINOIS DEPARTMENT (OF TRANSPORTATION
REVISIONS NAME DATE	DISTR: DETECTO INSTALLATIO FOR ROADWAY	R LOOP ON DETAILS
	SCALE: NONE DATE 10/18/2002	DRAWN BY CADD DESIGNED BY CHECKED BY R.K.F.
		TCAT

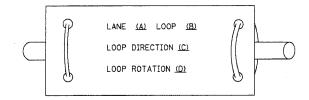
IO/I8/2002 c:\projects\diststd\ts07.dgn VI=TS07

REVISION DATE:

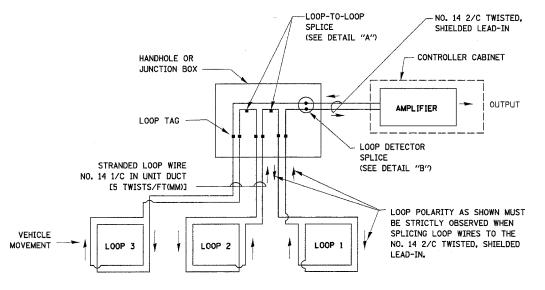
LOOP DETECTOR NOTES

- 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

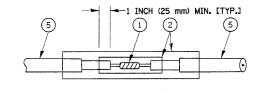


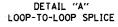
- A. LANE 1 IS THE LANE CLOSEST TO THE CENTERLINE OF THE ROADWAY
- B. LOOP #1 IS THE LOOP IN THE LANE CLOSEST TO THE INTERSECTION.
- C. LABEL LOOP CABLE "IN" OR LOOP CABLE "OUT".
- D. LABEL LOOP CABLE CLOCKWISE OR LOOP CABLE COUNTERCLOCKWISE.

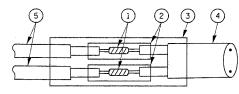


DETECTOR LOOP WIRING SCHEMATIC

- 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.







DETAIL "B"
LOOP-TO-CONTROLLER SPLICE

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.

REVISION		ILLINOIS DEPARTMENT	T OF TRANSPORTATION		
NAME	DATE	TELEVIOLO DEI MINIEN			
		DISTRI	CT ONE		
		STANDARD TR	AFFIC SIGNAL		
		DESIGN DETAILS			
		SCALE: VERT. NONE HORIZ. DATE 1-01-02	DRAWN BY: RWP DESIGNED BY: DAD CHECKED BY: DAZ SHEET 1 OF 4		

SECTION COUNTY

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

101 TS-2 COOK 26 23

CONTRACT NO. 60A64

TO STA.

350

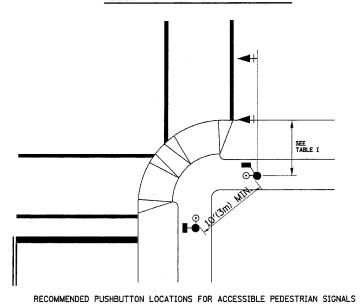
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₩ •DATE-TI

MAST ARM MOUNTED SIGNAL IN PROPOSED & FUTURE SIDEWALK AREA. INTERSECTION SHOWN WITH PEDESTRIAN SIGNAL AND PUSHBUTTON DETECTOR CURB, SHOULDER, OR EDGE OF PAVEMENT (SEE PLANS) SEE TABLE I 2'(600 mm) TYP. SEE TABLE I 5' (1.5m) MAX. _

TRAFFIC SIGNAL MAST ARM AND POST

PEDESTRIAN SIGNAL PUSHBUTTON



SHALL BE IN ACCORDANCE WITH THE CURRENT MUTCD (SEE NOTE 1). TO MEET MUTCD REQUIREMENTS, PEDESTRIAN SIGNAL PUSHBUTTONS MAY HAVE TO BE

MOUNTED ON A SEPARATE POST.

NOTES:

F.A.P. RTE.	SECTION	С	OUNT'	Y	TOTAL SHEETS	SHEET NO.
350	101 TS-2	:	C00	K	26	24
STA. TO STA.						
FED. ROA	D DIST. NO. 1	ILLINOIS	FED.	AID	PROJECT	

CONTRACT NO. 60A64

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

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 MUTCD 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

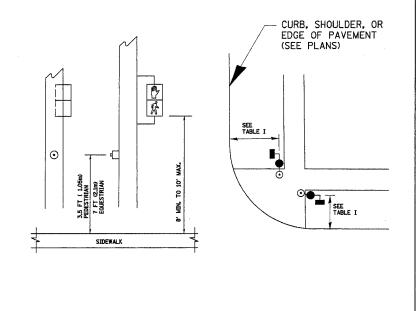
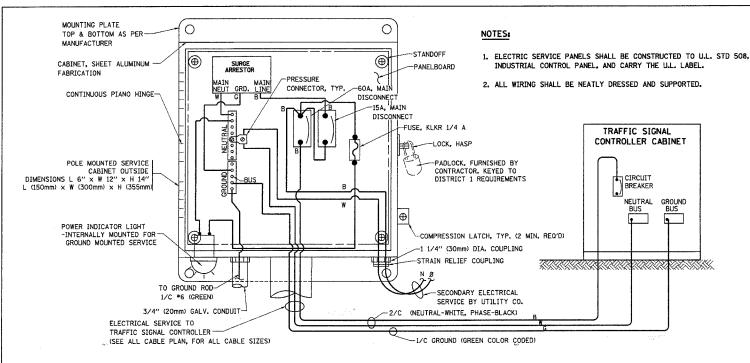


TABLE I

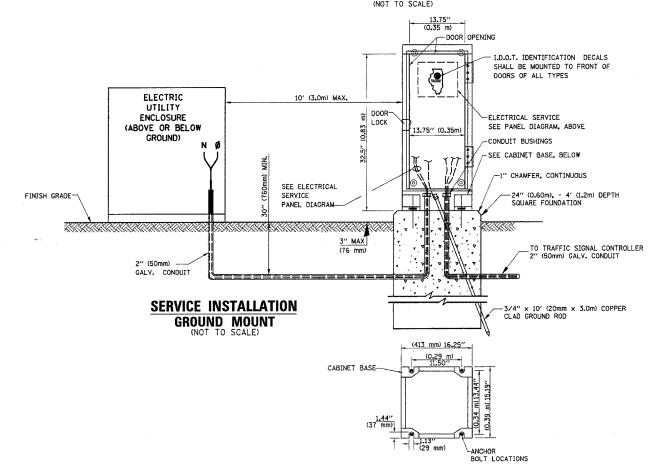
TRAFFIC SIGNAL EQUIPMENT	COMBINATION CONCRETE CURB AND GUTTER (MIN. DIST. FROM BACK OF CURB)	SHOULDER/NON-CURBED AREA (MIN. DIST. FROM EDGE OF PAVEMENT)
TRAFFIC SIGNAL MAST ARM POLE	6 FT (1.8m)	SHOULDER WIDTH + 2FT(0.6m), MINIMUM 10FT(3.0m)
TRAFFIC SIGNAL POST	4 FT (1.2m)	SHOULDER WIDTH + 2FT(0.6m),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

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



ELECTRICAL SERVICE - PANEL DIAGRAM (TYPICAL FOR POLE AND GROUND MOUNTED SERVICE)

SERVICE INSTALLATION POLE MOUNT (SHOWN)



CABINET - BASE BOLT PATTERN

(NOT TO SCALE)

NOTES:

HANDHOLE COVER

DETAIL "A"

DETAIL "B"

- RECESSED COVER

-U.L. LISTED

SPLICE KIT

DIRECT BURIAL

- GROUND CABLES TO CONTROLLER DOUBLE HANDHOLE

TO POLE OR

POST AS REQ'D.

-SEE DETAIL "B"

HANDHOLE COVER HANDLE

CAST CORNER FRAME WEB-

ANTI-CORROSION COMPOUND -

STEEL WASHERS

CABLE HOOKS

REQUIRED, ALL HANDHOLES

SHALL BE APPLIED ON ALL BOLT/ CONNECTION ASSEMBLIES.

-STAINLESS STEEL NUT AND 2 STAINLESS

SEE DETAIL "A"

COMPRESSION CONNECTOR

UL LISTED GROUND

UL LISTED GROUND

WITH STAINLESS STEEL NUT

(GREEN)

HANDHOLE COVER & FRAME - GROUNDING DETAIL

(NOT TO SCALE)

GROUNDING SYSTEM

F.A.P. RTE. TOTAL SHEE 101 TS-2 26 25 350 COOK STA. FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT

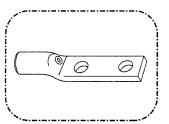
SECTION

CONTRACT NO. 60A64

COUNTY

1. THE GROUNDING SYSTEM SHALL CONSIST OF AN INSULATED CONDUCTOR TYPE XLP, NO. 6 A.W.G., STRANDED COPPER TO BE INSTALLED IN RACEWAYS. THE GROUNDING CABLE SHALL BE INSTALLED IN A CONTINUOUS MANNER AS SHOWN ON THE CABLE PLAN PROVIDED. ALL GROUNDING CONDUCTORS SHALL BE BONDED TO METAL ENCLOSURE (HANDHOLE, POST, MAST ARM, CONTROLLER, ETC.), GROUND ROD SHALL BE 3/4" DIA. x 10'-0" (20mm x 3.0m) LONG, COPPER CLAD, ONE GROUND ROD SHALL BE INSTALLED AT ALL POST FOUNDATIONS, POLE FOUNDATIONS, CONTROLLER CABINET FOUNDATION AND ELECTRICAL SERVICE INSTALLATION AS INDICATED ON THE CABLE PLAN. IF THERE ARE ANY SPECIAL CONDITIONS SUCH AS SUB-SURFACE CONDITIONS OR INSTALLATION PROBLEMS, THE RESIDENT ENGINEER SHALL BE NOTIFIED OR CONTACT THE BUREAU OF TRAFFIC. ILLINOIS DEPARTMENT OF TRANSPORTATION DISTRICT ONE AT (847) 705-4139.

- 2. THE NEUTRAL CONDUCTOR AND THE GROUND CONDUCTOR SHALL BE CONNECTED IN THE SERVICE INSTALLATION. AT NO OTHER POINT IN THE TRAFFIC SIGNAL SYSTEM SHALL THE NEUTRAL AND GROUND CONDUCTORS BE CONNECTED.
- 3. ALL EQUIPMENT GROUNDING CONDUCTORS SHALL TERMINATE AT THE GROUND BUS IN THE CONTROLLER CABINET.
- 4. THE CONTRACTOR SHALL PROVIDE A GROUND CABLE WITH CONNECTORS BETWEEN THE HANDHOLE COVER AND HANDHOLE FRAME.



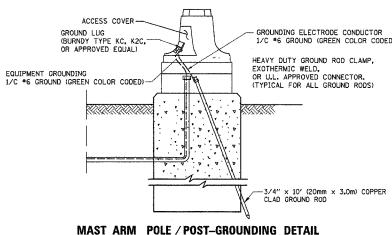
HEAVY-DUTY COMPRESSION TERMINAL (BURNDY TYPE YGHA OR APPROVED EQUAL)



3/4" (20mm) HEAVY-DUTY GROUND ROD CLAMP (BURNDY TYPE GRC OR APPROVED EUAL)

NOTES:

· ALL CLAMPS SHALL BE BRONZE OR COPPER, UL APPROVED. GROUND CABLE SHALL BE LOOPED OVER HOOKS IN THE HANDHOLES 6.5' (2.0m) SLACK SHALL BE PROVIDED IN SINGLE HANDHOLES 13' (4.0m) OF SLACK SHALL BE PROVIDED IN DOUBLE HANDHOLES. 5' (1.4m) OF SLACK SHALL BE PROVIDED BETWEEN FRAME AND COVER.

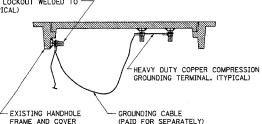


REVISIONS NAME DATE ILLINOIS DEPARTMENT OF TRANSPORTATION DISTRICT 1 STANDARD TRAFFIC SIGNAL DESIGN DETAILS

SCALE: VERT. NONE HORIZ. NONE DATE 1-01-02

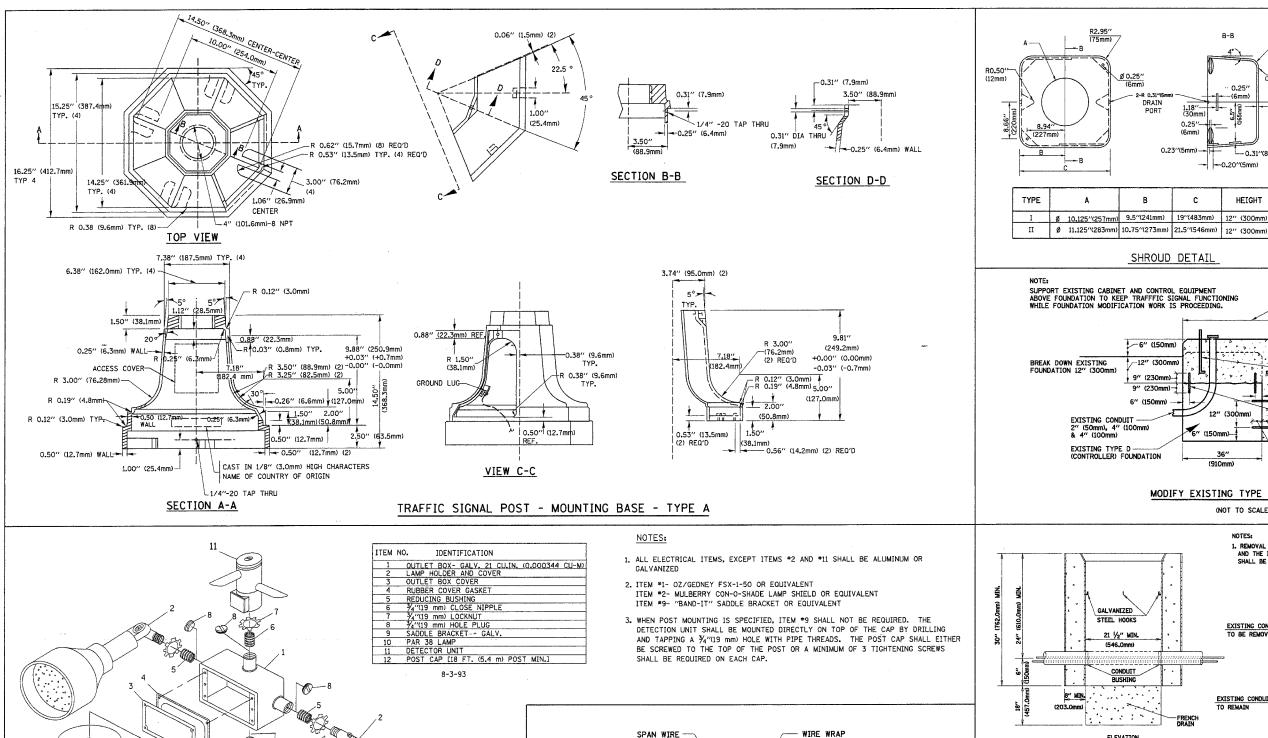
DRAWN BY: RWP DESIGNED BY: DAD CHECKED BY: DAZ SHEET 3 OF 4

(2) 1/2" x 1 1/4" STAINLESS STEEL BOLT WITH SPLIT LOCK WASHER AND NYLON INSERT LOCKOUT WELDED TO FRAME AND TO COVER. (TYPICAL)



EXISTING HANDHOLE COVER & FRAME - GROUNDING DETAIL

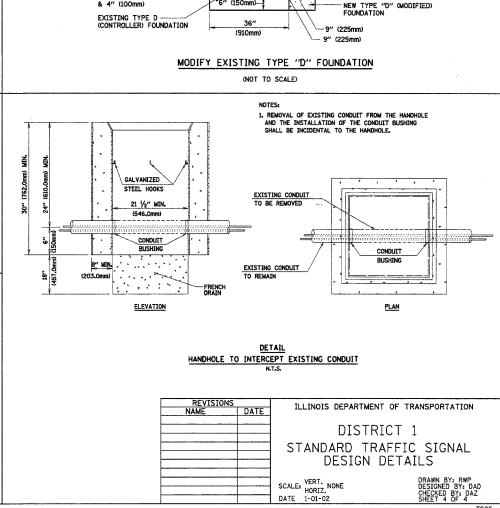
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LIGHT DETECTOR AND CONFIRMATION BEACON

ATTACHED TO TUBING

TETHER CABLE



SECTION

MATERIAL:

DIMENSION 7" (175mm) LARGER THAN CONTROLLER BASE DIMENSION, BOTH DIRECTIONS

NEW ANCHOR BOLTS

No. 3 DOWEL 1'-6" (450mm) LONG ON 12" (300mm) CENTER (8 REQ'D)

350 101 TS-2

STA.

WEIGHT

24kg

26kg

. 0.25

___ 0.31"(8mm)

HEIGHT

COUNTY

- ASTM A48 CLASS 30 GREY IRON

- ASTM A123 HOT DIPPED GALVANIZED

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

COOK 26 26

CONTRACT NO. 60A64

LIGHT DETECTOR AND CONFIRMATION BEACON MOUNTING FOR TEMPORARY TRAFFIC SIGNALS (NOT TO SCALE)

GALVANIZED TUBING

DATE-TIME *DGN-SPEC*

POST CAP MOUNT

MAST ARM MOUNT

EMERGENCY VEHICLE DETECTOR WITH CONFIRMATION BEACON MOUNTING DETAIL