

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
**PLANS FOR PROPOSED
FEDERAL AID HIGHWAY**

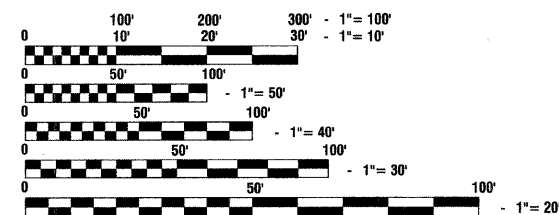
INDEX OF SHEETS
SEE SHEET NO. 2

STATE STANDARDS
SEE SHEET NO. 2

FAU ROUTE 1621 (RIDGE ROAD)
@ SCHOOL STREET
SAFE ROUTES TO SCHOOL
NEW TRAFFIC SIGNAL INSTALLATION
CMAQ PROJECT NO.: CMM-9003(078)
L.A. SECTION NO.: 06-00162-04-TL
VILLAGE of LANSING
COOK COUNTY
C-91-021-09

DESIGN DESIGNATION - RIDGE ROAD - COLLECTOR
SCHOOL STREET - LOCAL (RESIDENTIAL)

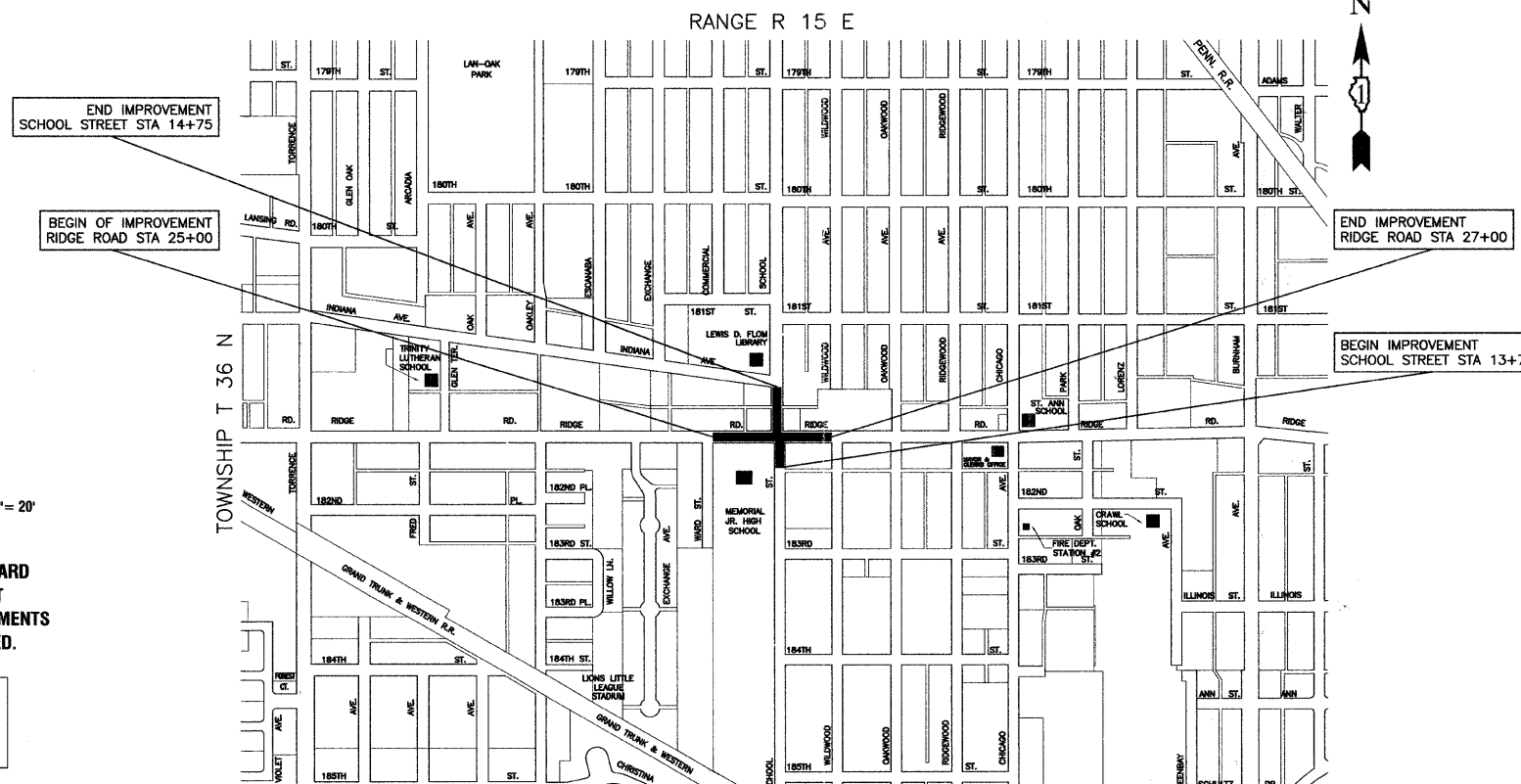
	RIDGE ROAD	SCHOOL ST
2006 ADT -	17,300	2,000
2030 ADT -	22,000	2,500
POSTED SPEED LIMIT -	35 mph	25 mph
DESIGN PERIOD -	20 YEARS	20 YEARS
DESIGN SPEED LIMIT -	40 mph	30 mph
STREET CLASSIFICATION -	CLASS I	CLASS II



FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD
ENGINEERING SCALES, REDUCED SIZED PLANS WILL NOT
CONFORM TO STANDARD SCALES, IN MAKING MEASUREMENTS
ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

J. U. L. I. E.
JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION
1-800-892-0123 or 811

CONTRACT NO. 63118

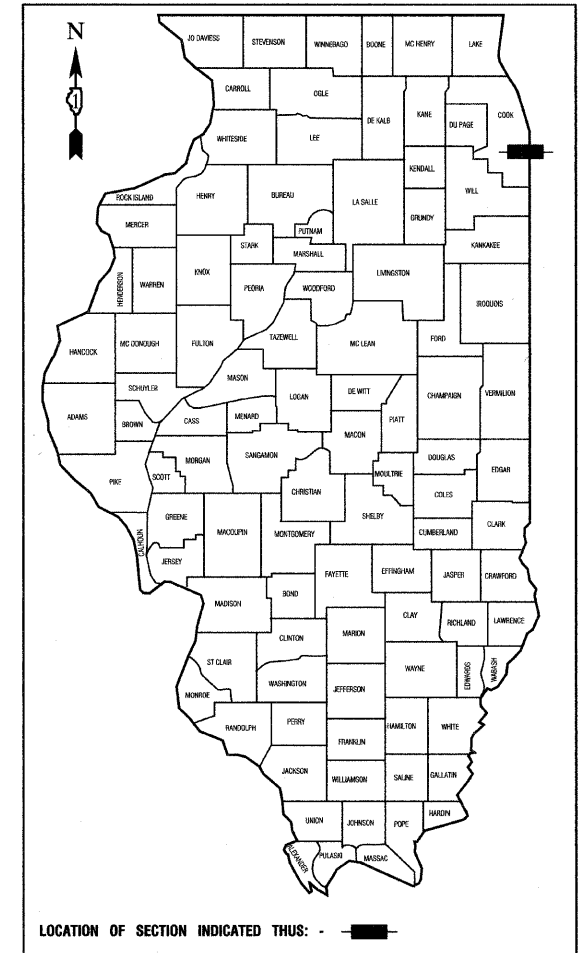


LOCATION MAP

GROSS LENGTH=300 FEET=0.06 MILES
NET LENGTH=300 FEET=0.06 MILES

F. A. U. R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1621	06-00162-04-TL	COOK	012	001
STA.		TO STA.		
FED. ROAD DIST. NO. 1		ILLINOIS		FED. AID PROJECT CMM-9003(078)

CONTRACT #63118



STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

Approved 12/19/2008

James R. Hoff
President, Village of Lansing

Passed FEBRUARY 9, 2009

Chris Christensen
District 1 Engineer of Local Roads & Streets

Released for Bid
Based on Limited
Review

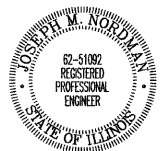
FEBRUARY 10, 2009

Diana M. O'Keefe
Deputy Director of Highways, Region 1 Engineer

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THE STATE OF ILLINOIS

PREPARED BY OR UNDER THE
DIRECT SUPERVISION OF:

J. M. Doherty
12/19/08



LICENSE EXPIRES: 11/30/09

F. A. U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1621	06-00162-04-TL	COOK	012	002
STA.		TO STA.		
FED. ROAD DIST. NO. 1		ILLINOIS	FED. AID PROJECT CMM-9003(078)	

CONTRACT #63118

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11.
- MAST ARM MOUNTED STREET NAME SIGNS
12.
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- 878001-07
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- 880006-01
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GENERAL NOTES:

EXISTING VILLAGE OWNED AND MAINTAINED UTILITY LINES ARE SHOWN ON THE PLANS TO INDICATE THEIR PRESENCE AND APPROXIMATE LOCATION. THE CONTRACTOR SHALL NOTIFY THE VILLAGE OF LANSING PUBLIC WORKS DEPARTMENT (708) 895-7190 TWO WEEKS PRIOR TO COMMENCING ANY EXCAVATION IN THE VICINITY OF THIS LINES. THE VILLAGE WILL THEN LOCATE AND MARK THE HORIZONTAL LOCATIONS OF THE LINES AND PROVIDE ANY AVAILABLE INFORMATION AS TO THEIR DEPTH. SHOULD ANY OF THE LINES BE DAMAGED BY THE CONTRACTOR'S OPERATION, THE CONTRACTOR SHALL REPAIR THEM TO THE SATISFACTION OF THE ENGINEER AND AT NO COST TO THE VILLAGE/STATE.

UTILITY LINES WERE PLOTTED FROM INFORMATION FURNISHED BY THE VARIOUS UTILITY COMPANIES INVOLVED AND THE ACCURACY SHOULD BE CONSIDERED APPROXIMATE ONLY.

UTILITY COMPANIES MAY BE ADJUSTING THEIR FACILITIES DURING CONSTRUCTION. THE CONTRACTOR SHALL COOPERATE WITH THESE ORGANIZATIONS WHILE THESE ADJUSTMENTS ARE BEING PREFORMED. J.U.L.I.E.-JOINT UTILITY LOCATION INFORMATION FOR EXCAVATORS SYSTEM (800) 892-0123 OR 811.

ALL EXISTING PAVEMENT MARKINGS THAT CONFLICT WITH THE PROPOSED PAVEMENT MARKINGS SHALL BE REMOVED BY THE CONTRACTOR. ALL COSTS ASSOCIATED WITH THIS WORK SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT.

FILE NAME = 05012_04-INDX-01	USER NAME =	DESIGNED -- JMN	REVISED --	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	RIDGE ROAD & SCHOOL STREET INTERSECTION IMPROVEMENT INDEX OF SHEETS, GENERAL NOTES, & STATE STANDARDS		F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		CHECKED -- JMN	REVISED --				1621	06-00162-04-TL	COOK	012	002
	PLOT SCALE =	DRAWN -- PS	REVISED --				CONTRACT NO. 63118				
	PLOT DATE = 12-19-08	CHECKED -- AG	REVISED --				SCALE:	SHEET NO. 002 OF 012 SHEETS	STA.	TO STA.	FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT CMM-9003(078)

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1621	06-00162-04-TL	COOK	012	003
STA.		TO STA.		
FED. ROAD DIST. NO. 1		ILLINOIS	FED. AID PROJECT CMM-9003(078)	

CONTRACT #63118

SUMMARY OF QUANTITIES					PAVEMENT	MARKINGS	SIGNALS
S.I.	CODE NO.	PAY ITEM	UNIT	QUAN	CONSTRUCTION TYPE CODE		
					SFTY-1B	SFTY-1D	Y031-1F
	21301084	EXPLORATION TRENCH 84" DEPTH	FOOT	20	20		
*	42400200	PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH	SQ FT	800	800		
*	42400800	DETECTABLE WARNINGS	SQ FT	64	64		
*	44000600	SIDEWALK REMOVAL	SQ FT	800	800		
	67100100	MOBILIZATION	L SUM	1	1		
	70102620	TRAFFIC CONTROL AND PROTECTION, STANDARD 701501	L SUM	1	1		
	70102622	TRAFFIC CONTROL AND PROTECTION, STANDARD 701502	L SUM	1	1		
	70102635	TRAFFIC CONTROL AND PROTECTION, STANDARD 701701	L SUM	1	1		
	70102640	TRAFFIC CONTROL AND PROTECTION, STANDARD 701801	L SUM	1	1		
	72000100	SIGN PANEL - TYPE 1	SQ FT	27		27	
*	78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	200		200	
*	78000600	THERMOPLASTIC PAVEMENT MARKING - LINE 12"	FOOT	330		330	
*	78000650	THERMOPLASTIC PAVEMENT MARKING - LINE 24"	FOOT	90		90	
	81000500	CONDUIT IN TRENCH, 1 1/2" DIA., GALVANIZED STEEL	FOOT	35			35
	81000600	CONDUIT IN TRENCH, 2" DIA., GALVANIZED STEEL	FOOT	35			35
	81000700	CONDUIT IN TRENCH, 2 1/2" DIA., GALVANIZED STEEL	FOOT	115			115
	81001000	CONDUIT IN TRENCH, 4" DIA., GALVANIZED STEEL	FOOT	10			10
	81018900	CONDUIT PUSHED, 4" DIA., GALVANIZED STEEL	FOOT	75			75
	81019000	CONDUIT PUSHED, 5" DIA., GALVANIZED STEEL	FOOT	80			80
	81400100	HANDHOLE	EACH	2			2
	81400300	DOUBLE HANDHOLE	EACH	2			2
	81900200	TRENCH AND BACKFILL FOR ELECTRICAL WORK	FOOT	139			139
	85700200	FULL-ACTUATED CONTROLLER AND TYPE IV CABINET	EACH	1			1
	87301215	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	937			937
	87301225	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	1180			1180
	87301245	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	1079			1079
	87301255	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	1079			1079
	87301805	ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C	FOOT	50			50
	87502500	TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EACH	4			4
	87601200	PEDESTRIAN PUSH-BUTTON POST, GALVANIZED STEEL, TYPE II	EACH	3			3
	87702870	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 28 FT.	EACH	2			2
	87702880	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 30 FT.	EACH	2			2
	87800100	CONCRETE FOUNDATION, TYPE A	FOOT	28			28
	87800150	CONCRETE FOUNDATION, TYPE C	FOOT	4			4
	87800415	CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	60			60
	88030020	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	4			4
	88030050	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	4			4
	88030070	SIGNAL HEAD, LED, 1-FACE, 4-SECTION, BRACKET MOUNTED	EACH	2			2
	88030080	SIGNAL HEAD, LED, 1-FACE, 4-SECTION, MAST ARM MOUNTED	EACH	2			2
	88030100	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	2			2
	88030110	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED	EACH	2			2
	88102717	PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	8			8
	88200110	TRAFFIC SIGNAL BACKPLATE, LOUVERED	EACH	8			8
	88700200	LIGHT DETECTOR	EACH	2			2
	88700300	LIGHT DETECTOR AMPLIFIER	EACH	1			1
	88800100	PEDESTRIAN PUSH-BUTTON	EACH	8			8
	X0301576	COAXIAL CABLE IN CONDUIT	FOOT	686			686
	X0323153	ELECTRIC CABLE IN CONDUIT, GROUND, NO. 6 1C (GREEN)	FOOT	300			300
	X8050015	SERVICE INSTALLATION - POLE MOUNTED	EACH	1			1
	X8730250	ELECTRIC CABLE IN CONDUIT NO. 20 3/C, TWISTED, SHIELDED	FOOT	209			209
	XX003982	VIDEO VEHICLE DETECTION SYSTEM	L SUM	1			1
	X8620020	UNINTERRUPTABLE POWER SUPPLY	EACH	1			1
	X0007246	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 18 3C	FOOT	686			686

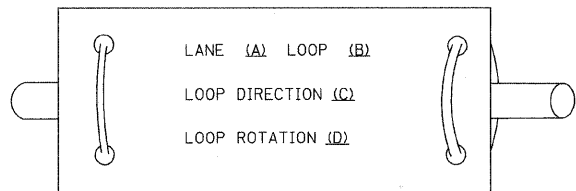
* - INDICATES SPECIALTY ITEMS

FILE NAME = 06012_04-QUAN-01	USER NAME =		DESIGNED -- JMN	REVISED --	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	RIDGE ROAD & SCHOOL STREET INTERSECTION IMPROVEMENT SUMMARY OF QUANTITIES			F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			CHECKED -- JMN	REVISED --					1621	06-00162-04-TL	COOK	012	003
	PLOT SCALE =		DRAWN -- PS	REVISED --					CONTRACT NO. 63118				
	PLOT DATE = 12-19-08		CHECKED -- AG	REVISED --					SCALE: SHEET NO. 003 OF 012 SHEETS STA. TO STA. FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT CMM-9003(078)				

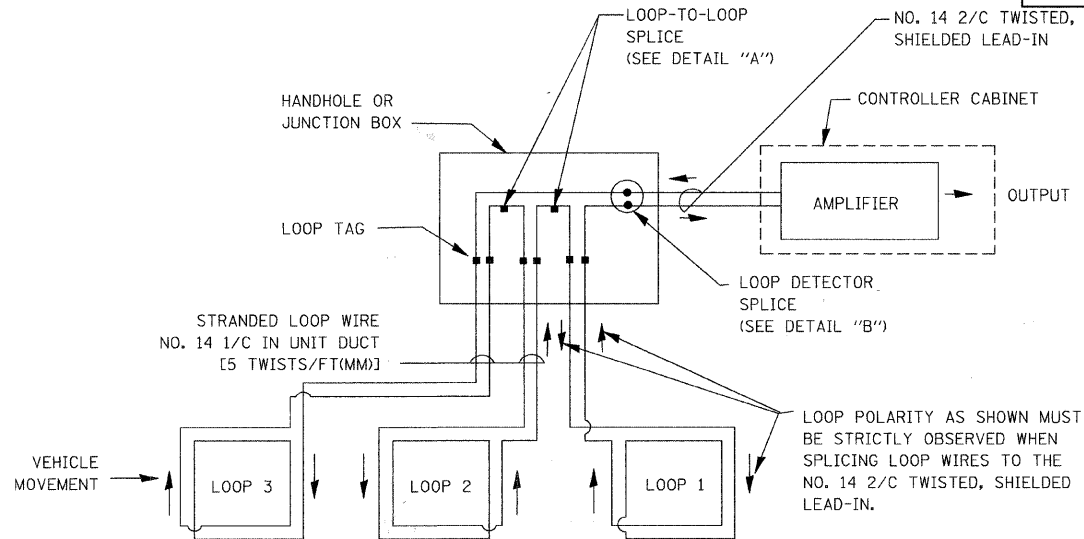
LOOP DETECTOR NOTES

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

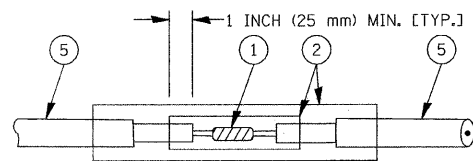


- A. LANE 1 IS THE LANE CLOSEST TO THE CENTERLINE OF THE ROADWAY
- B. LOOP #1 IS THE LOOP IN THE LANE CLOSEST TO THE INTERSECTION.
- C. LABEL LOOP CABLE "IN" OR LOOP CABLE "OUT".
- D. LABEL LOOP CABLE CLOCKWISE OR LOOP CABLE COUNTERCLOCKWISE.

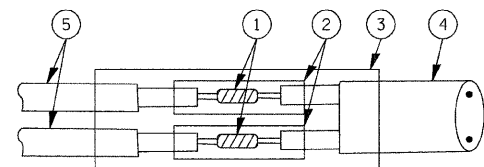


DETECTOR LOOP WIRING SCHEMATIC

- 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.



DETAIL "A"
LOOP-TO-LOOP SPLICE



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.

FILE NAME =		USER NAME = geglano01		DESIGNED - D.A.D.		REVISED - 11-12-01		DRAWN - R.W.P.		REVISED - BUR, TRAFFIC 01-01-02		CHECKED - D.A.Z.		REVISED -		DATE - 05-30-00		REVISED -		PLOT SCALE = 50.0000' / IN.		PLOT DATE = 1/4/2008		DATE - 05-30-00		REVISED -	
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STATE OF ILLINOIS		DISTRICT ONE		F.A.U. RTE.		SECTION		COUNTY		TOTAL SHEETS		SHEET NO.	
DEPARTMENT OF TRANSPORTATION		STANDARD TRAFFIC SIGNAL DESIGN DETAILS		1621		06-00162-04-TL		COOK		012		004	
						TS-05							
SCALE:		SHEET NO. 004 OF 012 SHEETS		STA.		TO STA.		FED. ROAD DIST. NO. 1		ILLINOIS		FED. AID PROJECT CMM-9003(078)	

F. A. U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1621	06-00162-04-TL	COOK	012	005
STA.		TO STA.		
FED. ROAD DIST. NO. 1		ILLINOIS	FED. AID PROJECT CMM-9003(078)	

CONTRACT #63118

NOTES:

- 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 MUTCD FIGURE 4E-2).

E: NORMAL PEDESTRIAN PUSHBUTTON MOUNTING HEIGHT SHOULD BE 3.5 FT (1.05m) ABOVE ADJACENT SIDEWALK.

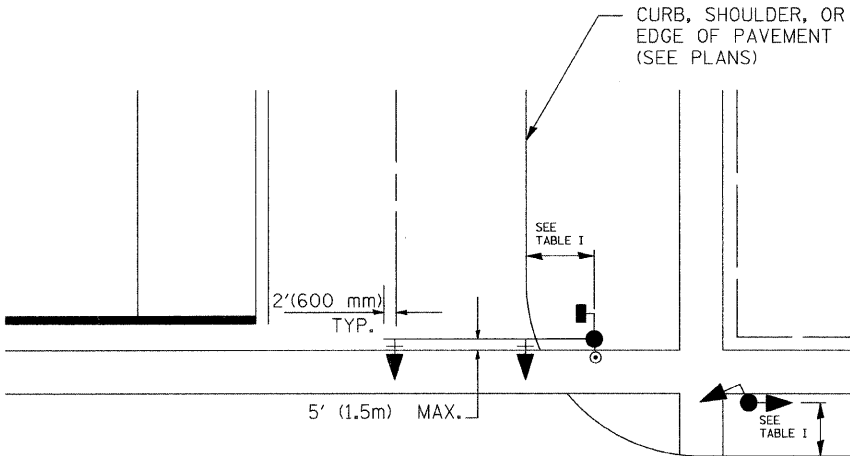
2. PEDESTRIAN SIGNAL FACES SHALL BE MOUNTED WITH THE BOTTOM OF THE HOUSING NOT LESS THAN 8 FT (2.4m) NOR MORE THAN 10 FT (3.0m) ABOVE THE SIDEWALK LEVEL AND SO THERE IS A PEDESTRIAN INDICATION IN THE LINE OF PEDESTRIANS' VISION WHICH PERTAINS TO THE CROSSWALK BEING USED.

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.

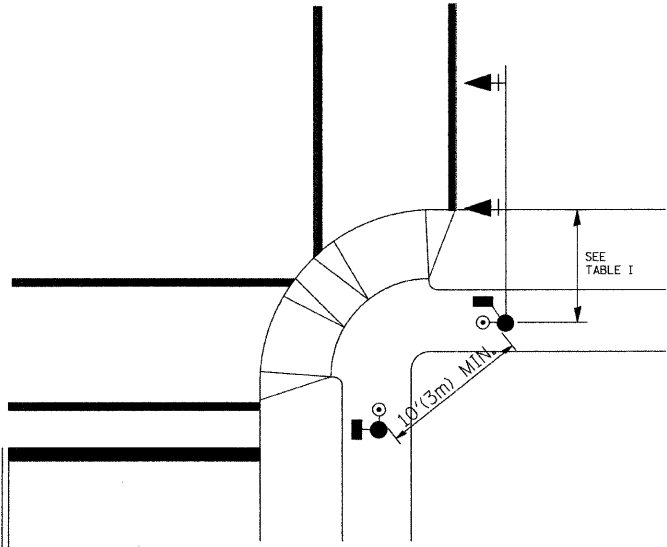
4. THE BOTTOM OF THE HOUSING OF A VEHICLE SIGNAL FACE, MOUNTED OVER A ROADWAY, SHALL BE ACCORDING TO CURRENT STATE STANDARDS 877001 AND 877006. (16 FT (5m) MIN., 18 FT (5.5m) MAX., FROM HIGHEST POINT OF PAVEMENT)

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 MUTCD (SEE NOTE 1). TO MEET MUTCD REQUIREMENTS, PEDESTRIAN SIGNAL PUSHBUTTONS MAY HAVE TO BE MOUNTED ON A SEPARATE POST.

PEDESTRIAN SIGNAL POST

PEDESTRIAN SIGNAL HEAD AND PEDESTRIAN PUSHBUTTON DETECTOR LOCATION

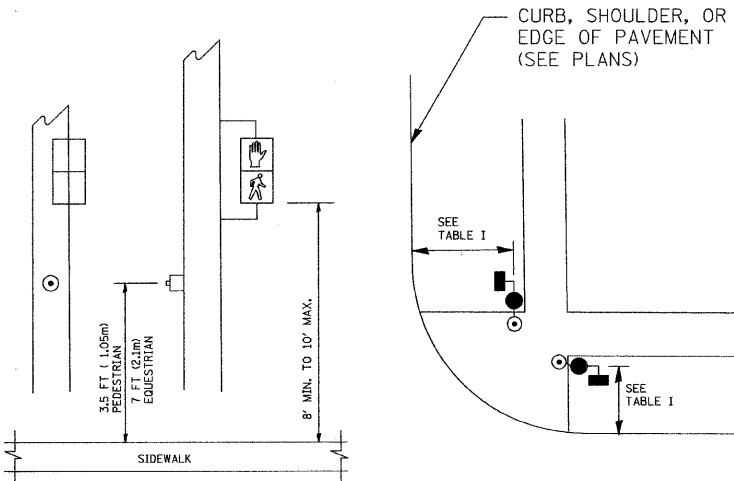


TABLE I

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

FILE NAME = W:\diststd\22x34\ts05.dgn	USER NAME = gaglianobt	DESIGNED - D.A.D.	REVISED - BUR. TRAFFIC 01-01-02
		DRAWN - R.W.P.	REVISED -
	PLOT SCALE = 50.0000' / IN.	CHECKED - D.A.Z.	REVISED -
	PLOT DATE = 1/4/2008	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT ONE
STANDARD TRAFFIC SIGNAL DESIGN DETAILS

SCALE: SHEET NO. 005 OF 012 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1621	06-00162-04-TL	COOK	012	005
TS-05		CONTRACT NO. 63118		
FED. ROAD DIST. NO. 1		ILLINOIS	FED. AID PROJECT CMM-9003(078)	

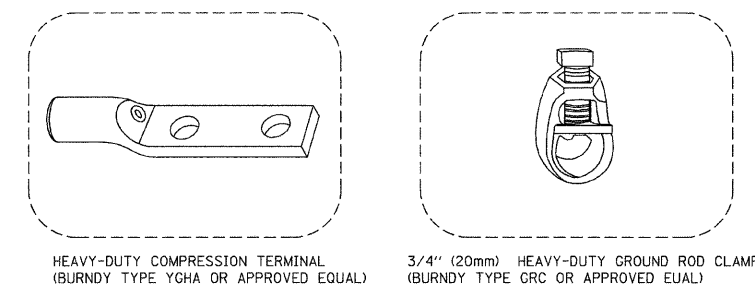
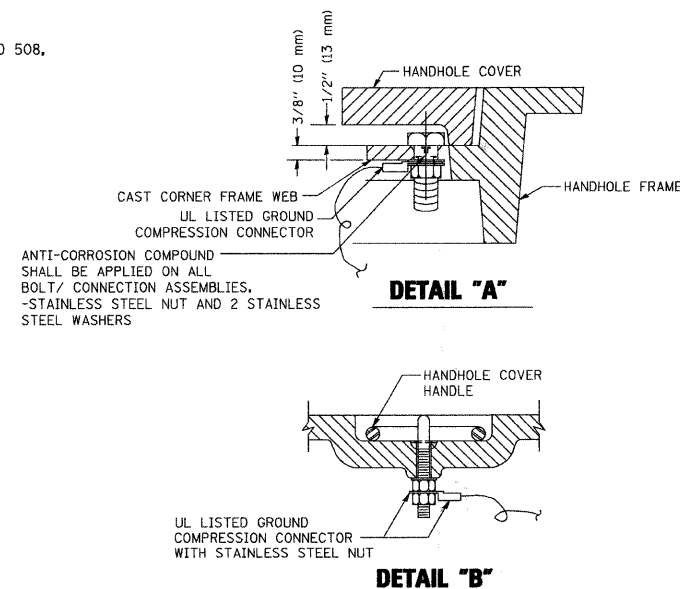
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1621	06-00162-04-TL	COOK	012	006
STA.		TO STA.		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT	CMM-9003(078)	

CONTRACT #63118

NOTES:

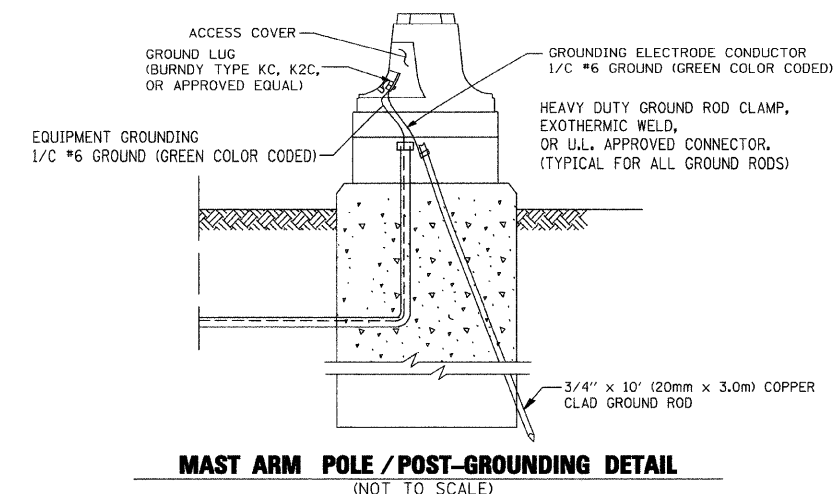
GROUNDING SYSTEM

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.

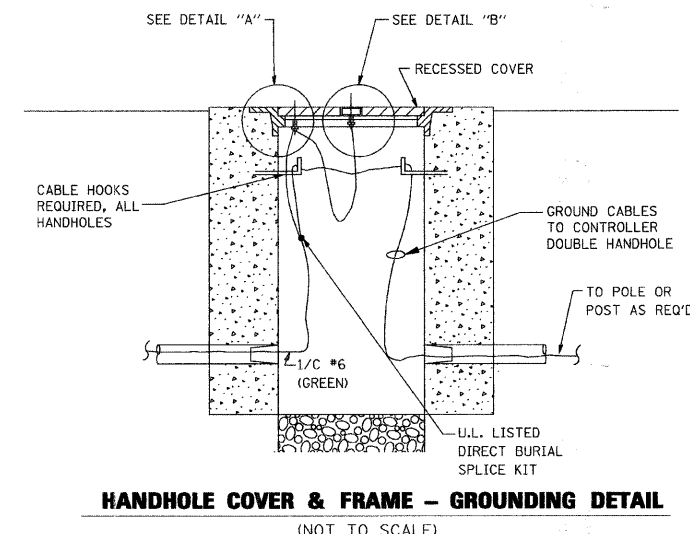


NOTES:

- 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.

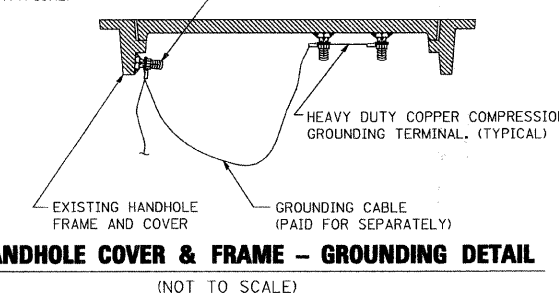


MAST ARM POLE / POST-GROUNDING DETAIL
(NOT TO SCALE)



HANDHOLE COVER & FRAME - GROUNDING DETAIL
(NOT TO SCALE)

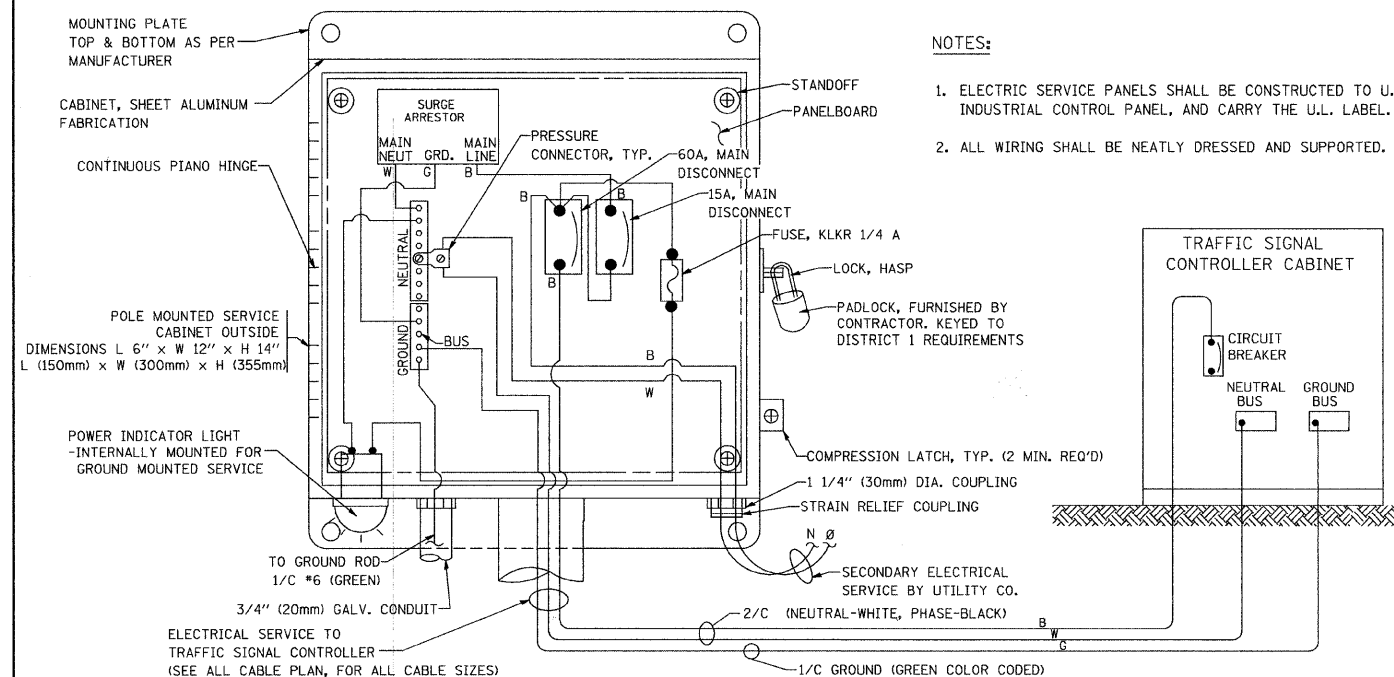
(2) 1/2" x 1 1/4" STAINLESS STEEL BOLT WITH SPLIT LOCK WASHER AND NYLON INSERT LOCKOUT WELDED TO FRAME AND TO COVER. (TYPICAL)



EXISTING HANDHOLE COVER & FRAME - GROUNDING DETAIL
(NOT TO SCALE)

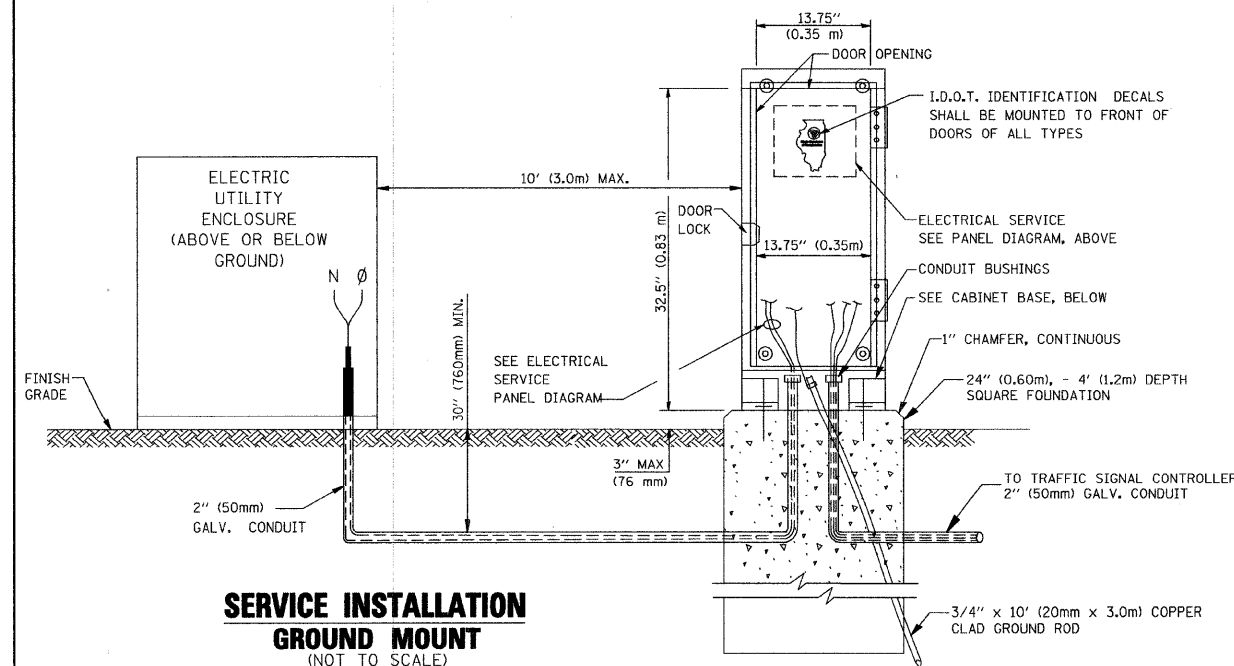
NOTES:

1. ELECTRIC SERVICE PANELS SHALL BE CONSTRUCTED TO U.L. STD 508, INDUSTRIAL CONTROL PANEL, AND CARRY THE U.L. LABEL.
2. ALL WIRING SHALL BE NEATLY DRESSED AND SUPPORTED.

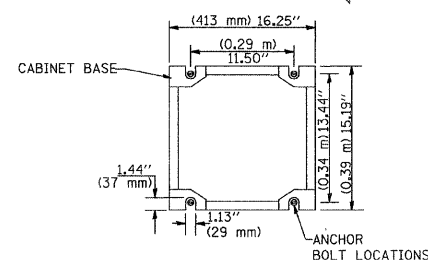


ELECTRICAL SERVICE - PANEL DIAGRAM (TYPICAL FOR POLE AND GROUND MOUNTED SERVICE)

SERVICE INSTALLATION POLE MOUNT (SHOWN)
(NOT TO SCALE)



SERVICE INSTALLATION
GROUND MOUNT
(NOT TO SCALE)



CABINET - BASE BOLT PATTERN
(NOT TO SCALE)

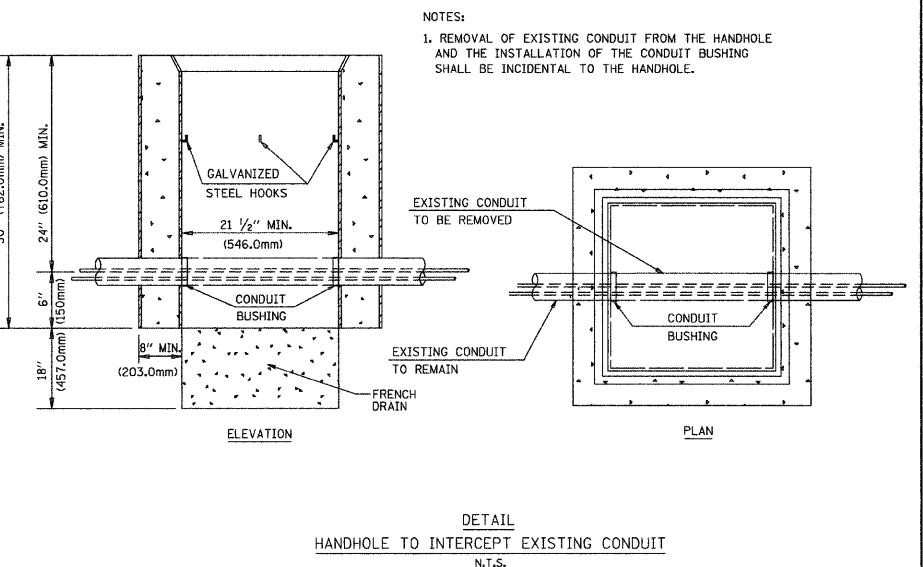
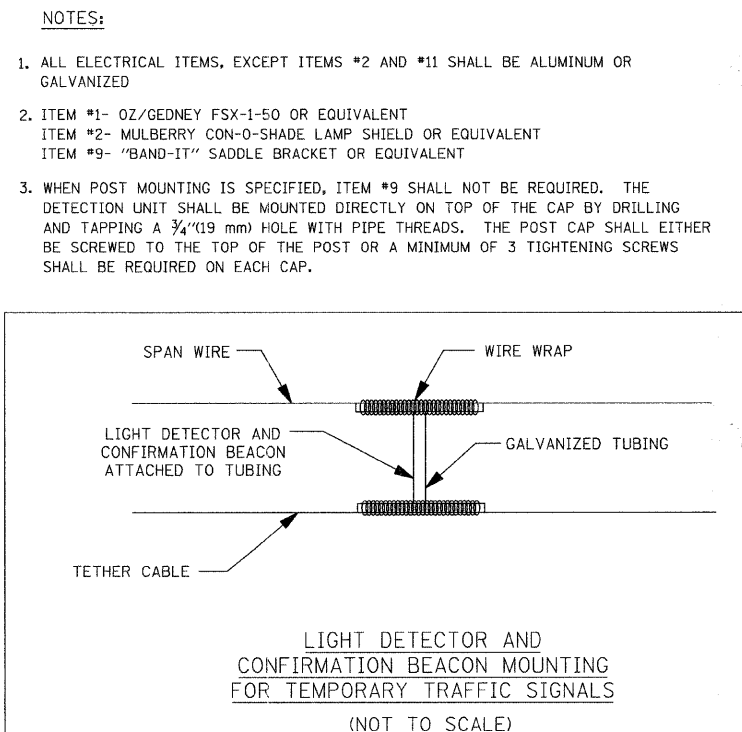
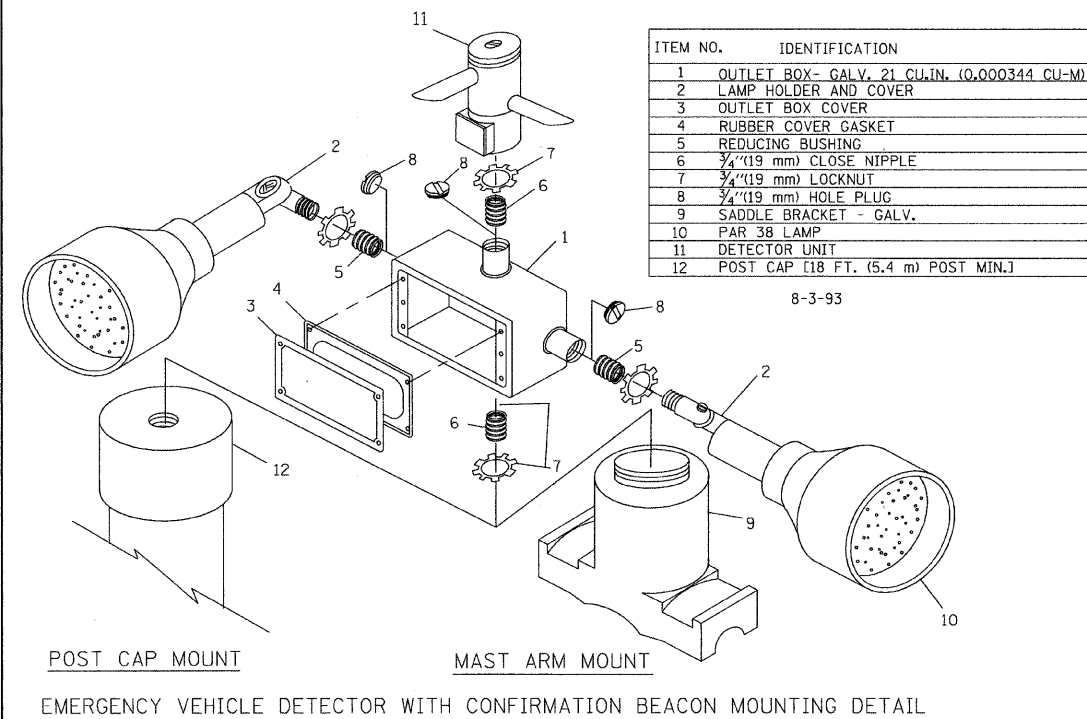
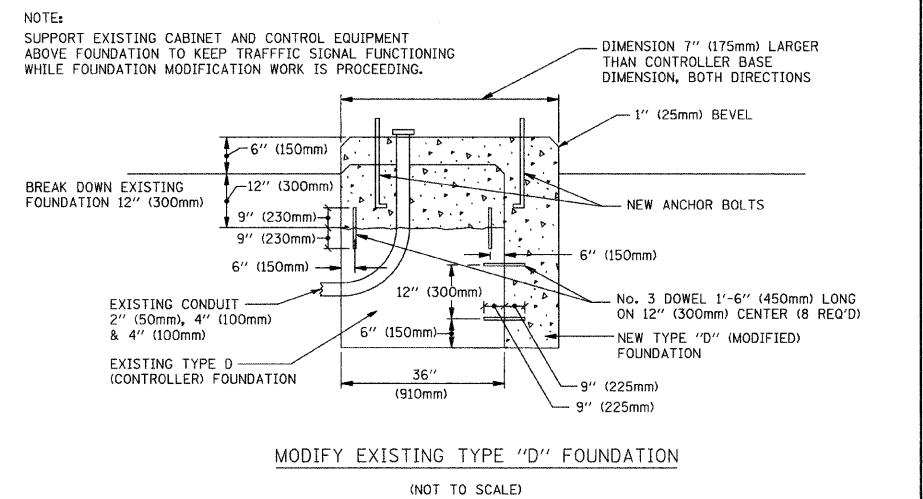
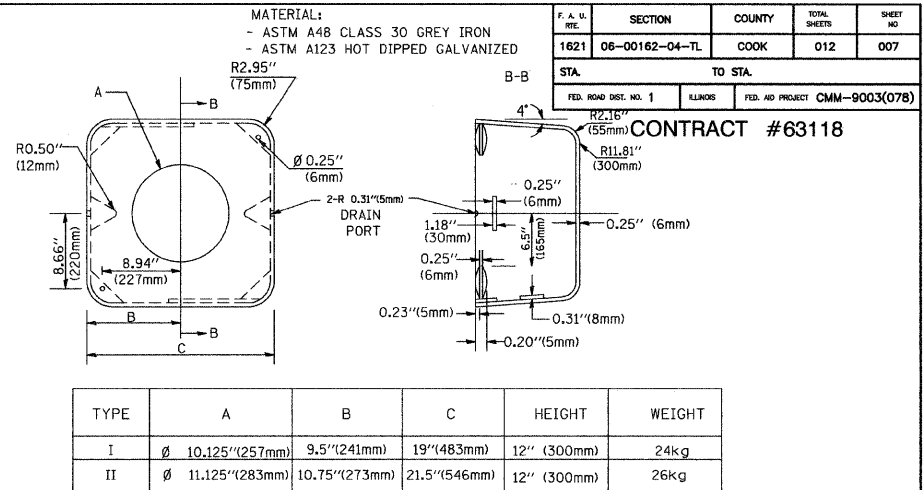
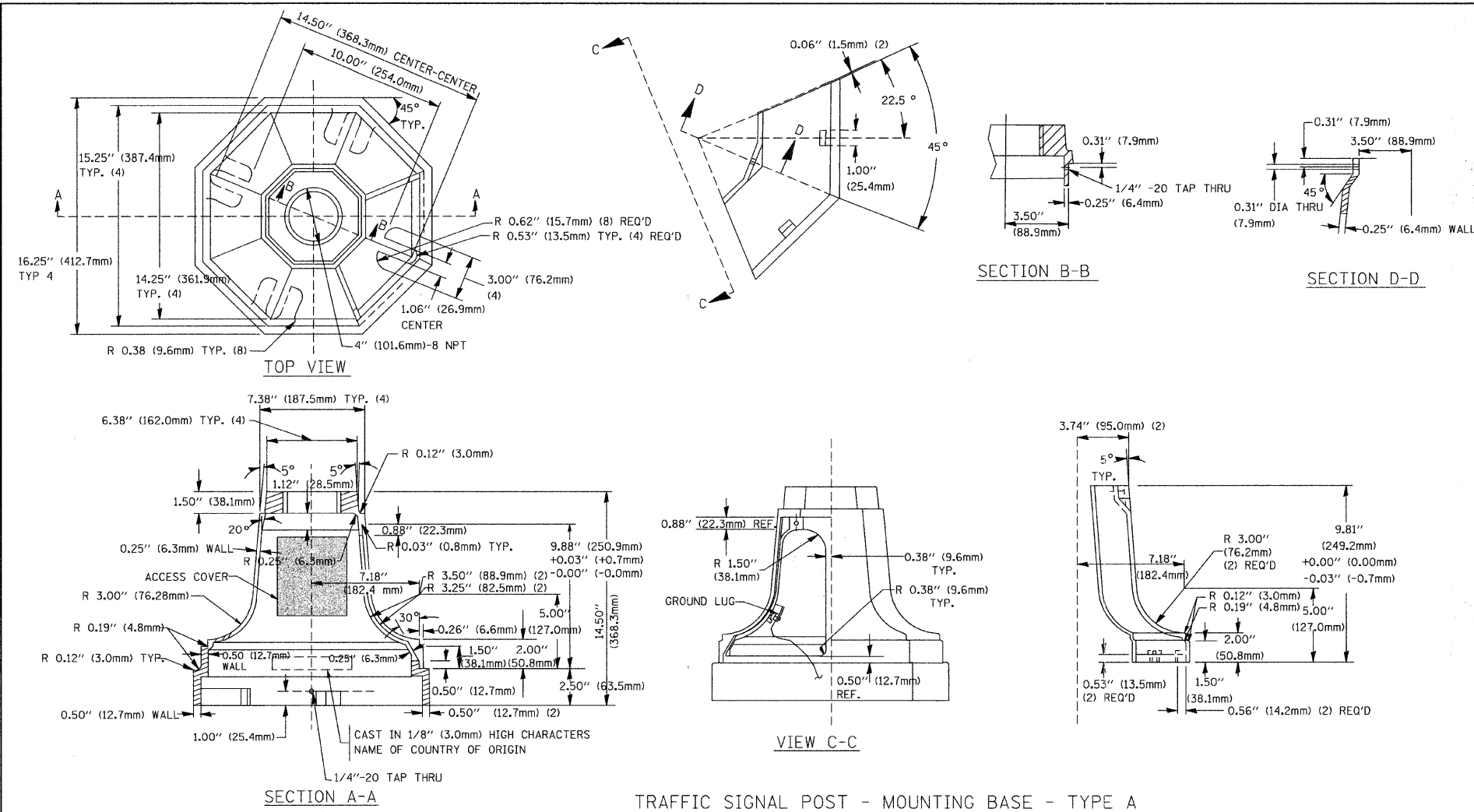
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W:\diststd\22x34\ts05.dgn		DRAWN - R.W.P.	REVISED - BUR. TRAFFIC 01-01-02
	PLOT SCALE = 50.0000" / IN.	CHECKED - D.A.Z.	REVISED -
	PLOT DATE = 1/4/2008	DATE - 05-30-00	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT ONE
STANDARD TRAFFIC SIGNAL DESIGN DETAILS

SCALE: SHEET NO. 006 OF 012 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1621	06-00162-04-TL	COOK	012	006
TS-05		CONTRACT NO. 63118		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT	CMM-9003(078)	



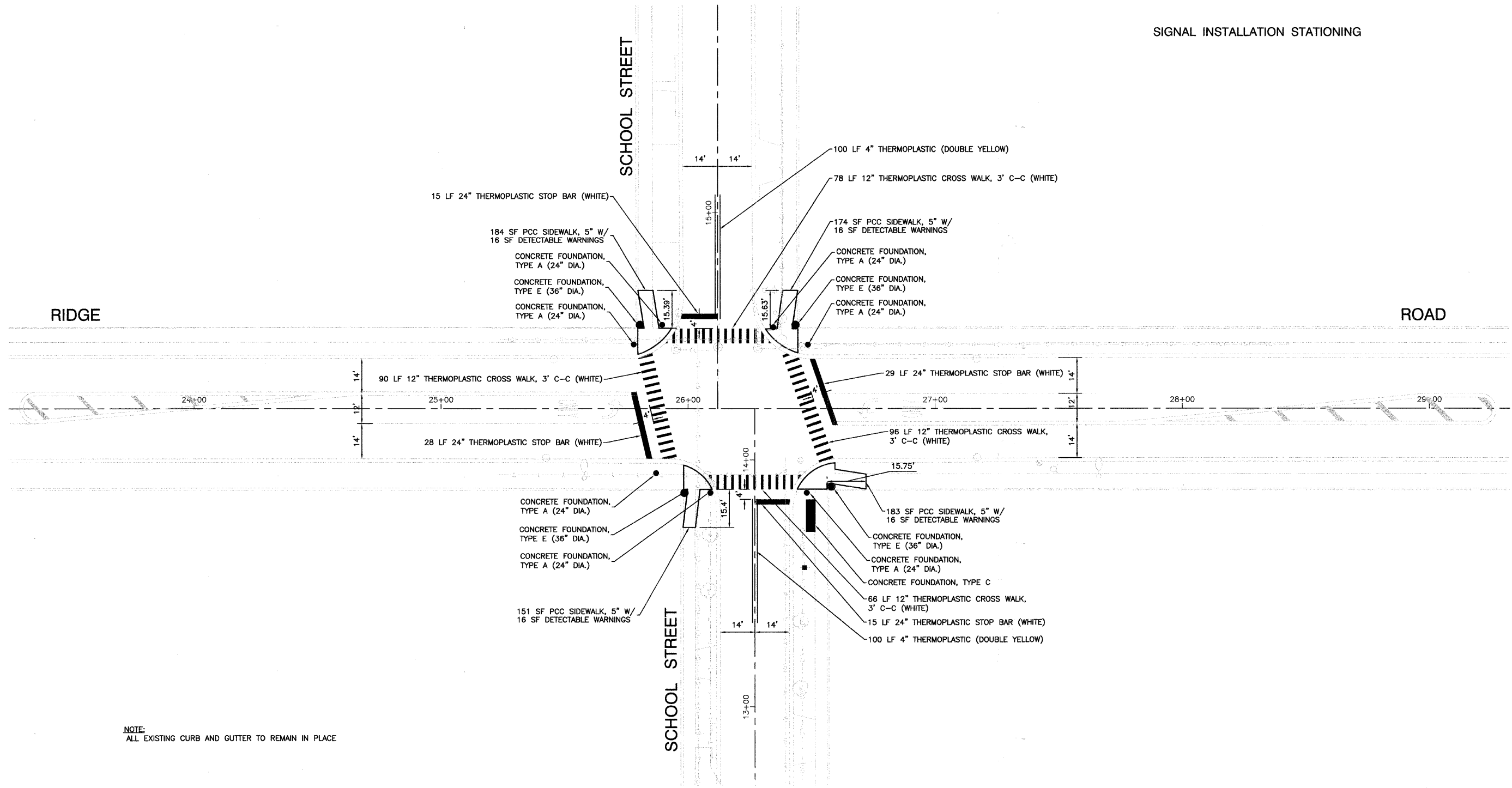
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		DRAWN - R.W.P.	REVISED - BUR.TRAFFIC 11-12-01			1621	06-00162-04-TL	COOK	012	007
	PLOT SCALE = 50.0000' / IN.	CHECKED - D.A.Z.	REVISED - BUR.TRAFFIC 01-01-02			TS-05		CONTRACT NO. 63118		
	PLOT DATE = 1/4/2008	DATE - 05-30-00	REVISED -			SCALE:	SHEET NO. 007 OF 012 SHEETS	STA.	TO STA.	FED. ROAD DIST. NO. 1

F. A. U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1621	06-00162-04-TL	COOK	012	008
STA.		TO STA.		
FED. ROAD DIST. NO. 1		ILLINOIS	FED. AID PROJECT CMM-9003(078)	

CONTRACT #63118



SIGNAL INSTALLATION STATIONING



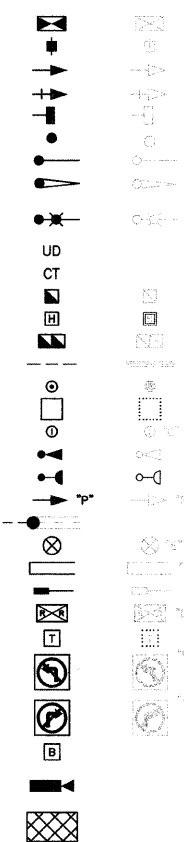
NOTE:
ALL EXISTING CURB AND GUTTER TO REMAIN IN PLACE

FILE NAME = 06012_04-PLAN-01	USER NAME =	DESIGNED — JMN	REVISED —	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	RIDGE ROAD & SCHOOL STREET INTERSECTION IMPROVEMENT PAVEMENT MARKING & SIDEWALK PLAN	SCALE: 1"=20'	SHEET NO. 008 OF 012 SHEETS	STA.	TO STA.	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		CHECKED — JMN	REVISED —							1621	06-00162-04-TL	COOK	012	008
	PLOT SCALE =	DRAWN — PS	REVISED —							CONTRACT NO. 63118				
	PLOT DATE = 12-19-08	CHECKED — AG	REVISED —							FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT CMM-9003(078)		

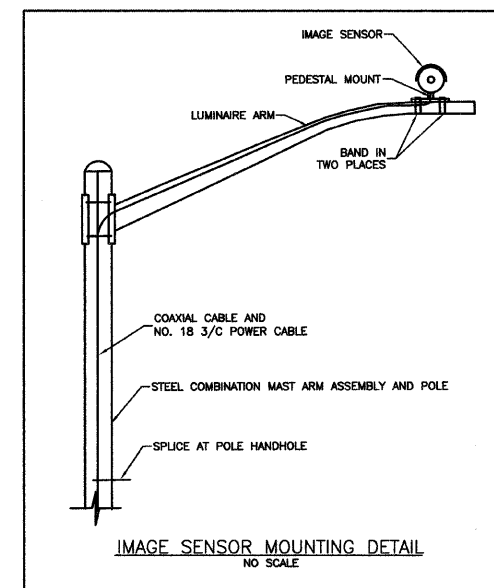
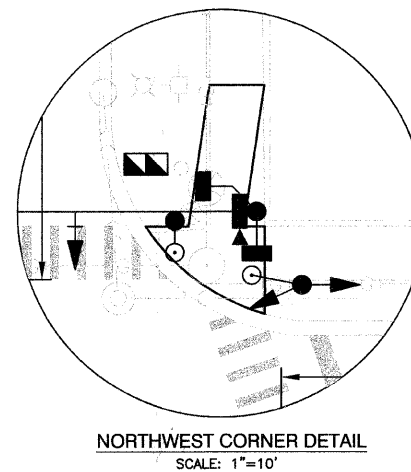
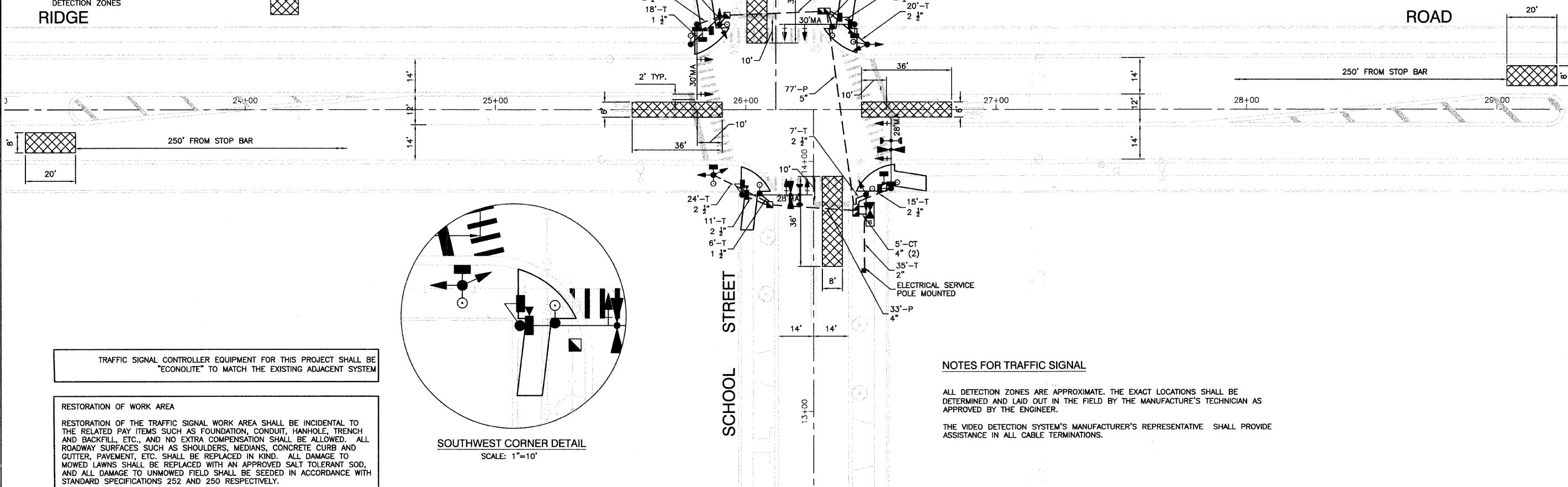
TRAFFIC SIGNAL LEGEND

CONTROLLER
 SERVICE INSTALLATION
 SIGNAL HEAD
 SIGNAL HEAD WITH BACKPLATE
 SIGNAL HEAD, PEDESTRIAN
 SIGNAL POST
 MAST ARM ASSEMBLY AND POLE, STEEL
 MAST ARM ASSEMBLY AND POLE, ALUMINUM
 COMBINATION MAST ARM ASSEMBLY AND POLE
 STEEL WITH LUMINAIRE
 UNIT DUCT
 COMMON TRENCH
 HANDHOLE
 HEAVY DUTY HANDHOLE
 DOUBLE HANDHOLE
 G.S. CONDUIT IN GROUND
 PEDESTRIAN PUSHBUTTON DETECTOR
 DETECTOR LOOP
 CAST IRON JUNCTION BOX
 EMERGENCY VEHICLE SYSTEM DETECTOR
 CONFIRMATION BEACON
 SIGNAL HEAD OPTICALLY PROGRAMMED
 CONDUIT SPLICE
 WOOD POLE
 RACEWAY FOR MAGNETIC DETECTOR, TYPE I OR TYPE II
 VEHICLE DETECTOR, NON COMPENSATED MAGNETIC TYPE
 RAILROAD CONTROL CABINET
 TELEPHONE CONNECTION
 ILLUMINATED SIGN, FIBER OPTIC "NO LEFT TURN"
 ILLUMINATED SIGN, FIBER OPTIC "NO RIGHT TURN"
 UNINTERRUPTIBLE POWER SUPPLY
 VIDEO DETECTION CAMERA
 DETECTION ZONES

PROPOSED EXISTING



RIDGE



SOUTHWEST CORNER DETAIL
SCALE: 1"=10'

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

RESTORATION OF WORK AREA

RESTORATION OF THE TRAFFIC SIGNAL WORK AREA SHALL BE INCIDENTAL TO THE RELATED PAY ITEMS SUCH AS FOUNDATION, CONDUIT, HANDHOLE, TRENCH AND BACKFILL, ETC., AND NO EXTRA COMPENSATION SHALL BE ALLOWED. ALL ROADWAY SURFACES SUCH AS SHOULDERS, MEDIANS, CONCRETE CURB AND CUTTER, PAVEMENT, ETC. SHALL BE REPLACED IN KIND. ALL DAMAGE TO MOWED LAWNS SHALL BE REPLACED WITH AN APPROVED SALT TOLERANT SOD, AND ALL DAMAGE TO UNMOWED FIELD SHALL BE SEED IN ACCORDANCE WITH STANDARD SPECIFICATIONS 252 AND 250 RESPECTIVELY.

NOTES FOR TRAFFIC SIGNAL

ALL DETECTION ZONES ARE APPROXIMATE. THE EXACT LOCATIONS SHALL BE DETERMINED AND LAID OUT IN THE FIELD BY THE MANUFACTURE'S TECHNICIAN AS APPROVED BY THE ENGINEER.

THE VIDEO DETECTION SYSTEM'S MANUFACTURER'S REPRESENTATIVE SHALL PROVIDE ASSISTANCE IN ALL CABLE TERMINATIONS.

FILE NAME = 06012_04 PLAN 01

USER NAME =

DESIGNED -- JMN

REVISED --

CHECKED -- JMN

REVISED --

PLOT SCALE =

DRAWN -- PS

REVISED --

PLOT DATE = 12-19-08

CHECKED -- AG

REVISED --

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

RIDGE ROAD & SCHOOL STREET
INTERSECTION IMPROVEMENT
TRAFFIC SIGNAL INSTALLATION PLAN

SCALE: 1"=20'

SHEET NO. 009 OF 012 SHEETS

STA.

TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1621	06-00162-04-TL	COOK	012	009
CONTRACT NO. 63118				
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT	CMM-9003(078)	

SECTION 32, TOWNSHIP 36, RANGE 15

NO.	ITEM DESCRIPTION	UNIT	TOTAL
1	EXPLORATION TRENCH 84" DEPTH	FOOT	20
2	PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH	SQ FT	800
3	DETECTABLE WARNINGS	SQ FT	64
4	SIDEWALK REMOVAL	SQ FT	800
5	MOBILIZATION	L SUM	1
6	TRAFFIC CONTROL AND PROTECTION, STANDARD 701501	L SUM	1
7	TRAFFIC CONTROL AND PROTECTION, STANDARD 701502	L SUM	1
8	TRAFFIC CONTROL AND PROTECTION, STANDARD 701701	L SUM	1
9	TRAFFIC CONTROL AND PROTECTION, STANDARD 701801	L SUM	1
10	SIGN PANEL - TYPE 1	SQ FT	27
11	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	200
12	THERMOPLASTIC PAVEMENT MARKING - LINE 12"	FOOT	330
13	THERMOPLASTIC PAVEMENT MARKING - LINE 24"	FOOT	90
14	CONDUIT IN TRENCH, 1 1/2" DIA., GALVANIZED STEEL	FOOT	35
15	CONDUIT IN TRENCH, 2" DIA., GALVANIZED STEEL	FOOT	35
16	CONDUIT IN TRENCH, 2 1/2" DIA., GALVANIZED STEEL	FOOT	115
17	CONDUIT IN TRENCH, 4" DIA., GALVANIZED STEEL	FOOT	10
18	CONDUIT PUSHED, 4" DIA., GALVANIZED STEEL	FOOT	75
19	CONDUIT PUSHED, 5" DIA., GALVANIZED STEEL	FOOT	80
20	HANDHOLE	EACH	2
21	DOUBLE HANDHOLE	EACH	2
22	TRENCH AND BACKFILL FOR ELECTRICAL WORK	FOOT	139
23	FULL-ACTUATED CONTROLLER AND TYPE IV CABINET	EACH	1
24	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	937
25	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	1180
26	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	1079
27	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	1079
28	ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C	FOOT	50
29	TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EACH	4
30	PEDESTRIAN PUSH-BUTTON POST, GALVANIZED STEEL, TYPE II	EACH	3
31	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 28 FT.	EACH	2
32	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 30 FT.	EACH	2
33	CONCRETE FOUNDATION, TYPE A	FOOT	28
34	CONCRETE FOUNDATION, TYPE C	FOOT	4
35	CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	60
36	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	4
37	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	4
38	SIGNAL HEAD, LED, 1-FACE, 4-SECTION, BRACKET MOUNTED	EACH	2
39	SIGNAL HEAD, LED, 1-FACE, 4-SECTION, MAST ARM MOUNTED	EACH	2
40	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	2
41	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED	EACH	2
42	PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	8
43	TRAFFIC SIGNAL BACKPLATE, LOUVERED	EACH	8
44	LIGHT DETECTOR	EACH	2
45	LIGHT DETECTOR AMPLIFIER	EACH	1
46	PEDESTRIAN PUSH-BUTTON	EACH	8
47	COAXIAL CABLE IN CONDUIT	FOOT	686
48	ELECTRIC CABLE IN CONDUIT, GROUND, NO. 6 1C (GREEN)	FOOT	300
49	SERVICE INSTALLATION - POLE MOUNTED	EACH	1
50	ELECTRIC CABLE IN CONDUIT NO. 20 3/C, TWISTED, SHIELDED	FOOT	209
51	VIDEO VEHICLE DETECTION SYSTEM	L SUM	1
52	UNINTERRUPTIBLE POWER SUPPLY	EACH	1
53	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 18 3C	FOOT	686

I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
TYPE	NO. LAMPS	WATTAGE INCAND.	LED	% OPERATION	
SIGNAL (RED)	16	X	17	0.50	136
(YELLOW)	16	X	25	0.25	100
(GREEN)	16	X	15	0.25	60
ARROW	12	X	12	0.10	15
PED. SIGNAL	8	X	25	1.00	200
CONTROLLER	1	X	100	1.00	100
ILLUM. SIGN	1	X	100	1.00	100
VIDEO DETECTOR (CAMERA)	4	X	15	1.00	60

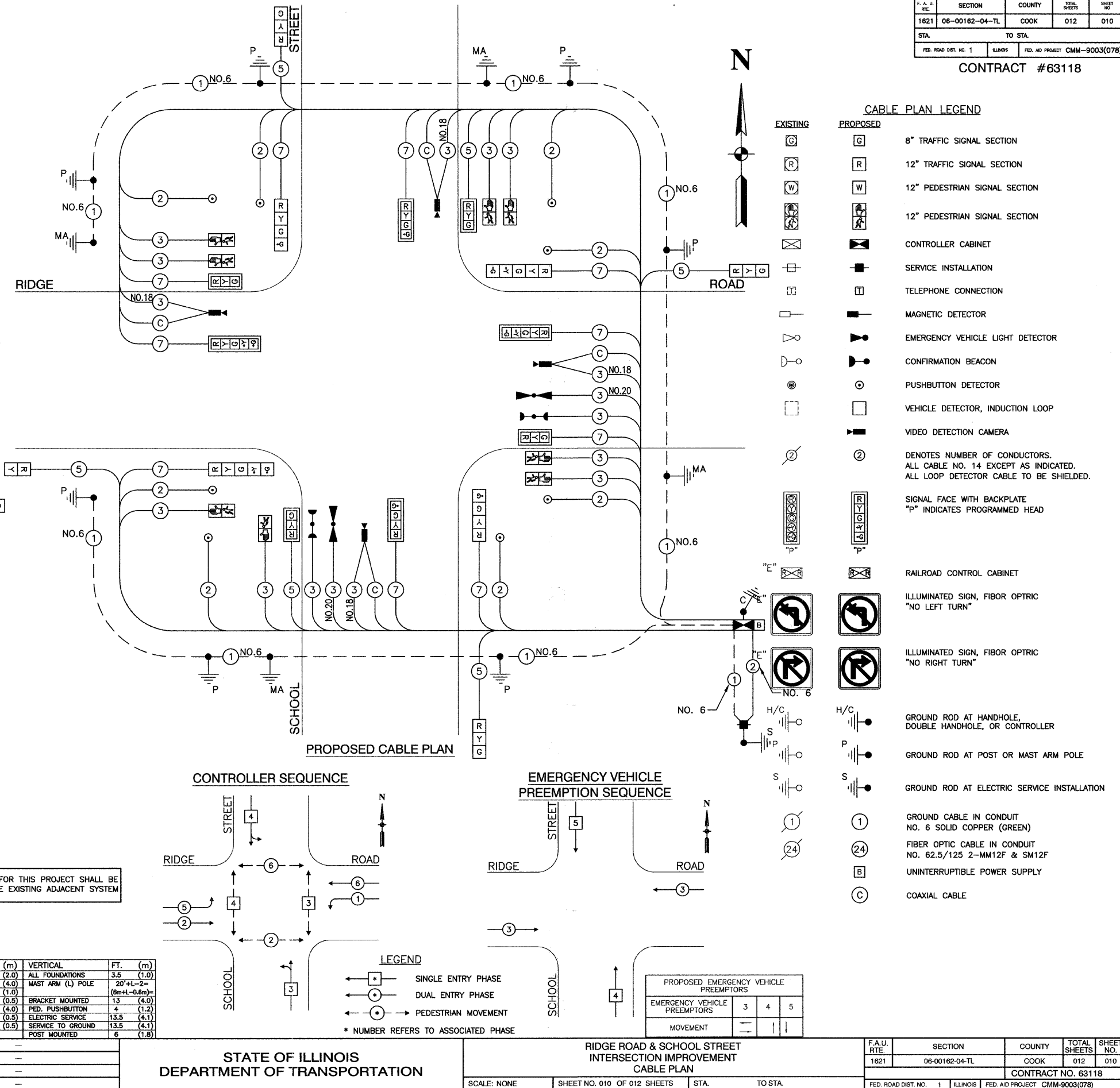
FLASHER	XX			0.50	
TOTAL =					671

ENERGY COSTS TO: VILLAGE OF LANSING

ENERGY SUPPLY CONTACT: TONY ESCALANTE
PHONE: 708-235-2328
COMPANY: COM ED

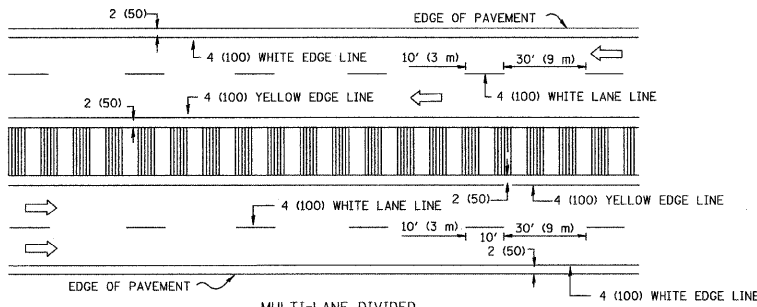
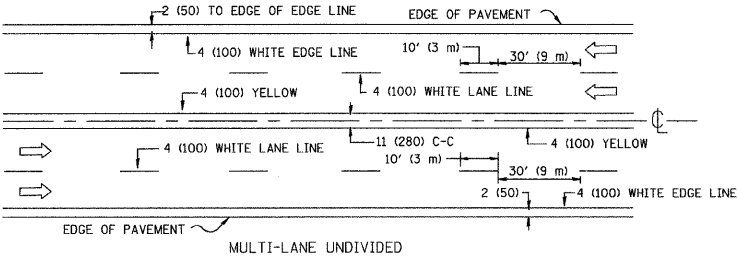
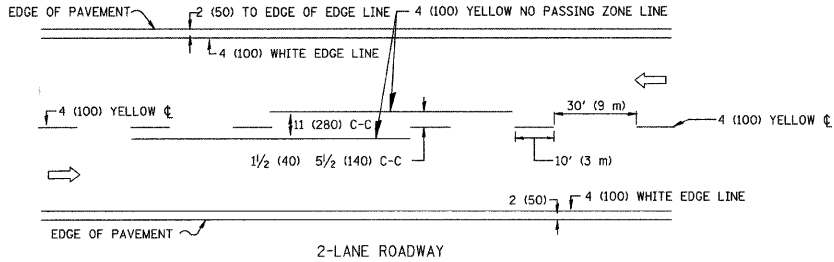
FOUNDATION (DEPTH)	FT. (m)	CABLE SLACK	FT. (m)	VERTICAL	FT. (m)
TYPE A - POST	4 (1.2)	HANDHOLE	6.5 (2.0)	ALL FOUNDATIONS	3.5 (1.0)
D - CONTROLLER	4 (1.2)	DOUBLE HANDHOLE	13 (4.0)	MAST ARM (L) POLE	20'+L-2=
E - M. ARM POLE	10 (3.0)	SIGNAL POST	2 (1.0)	(8m+L-0.6m)=	
24" (600mm)	10 (3.0)	CONTROLLER CAB.	1 (0.5)	BRACKET MOUNTED	13 (4.0)
30" (750mm)	15 (4.6)	FIBER OPTIC	13 (4.0)	PED. PUSHBUTTON	4 (1.2)
36" (900mm)	15 (4.6)	ELECTRIC SERVICE	1 (0.5)	ELECTRIC SERVICE	13.5 (4.1)
		GROUND CABLE	1 (0.5)	SERVICE TO GROUND	13.5 (4.1)
				POST MOUNTED	6 (1.8)

FILE NAME = 06012_04.CBL-01	USER NAME =	DESIGNED - JMN	REVISED -
		CHECKED - JMN	REVISED -
	PLOT SCALE =	DRAWN - PS	REVISED -
	PLOT DATE = 12-19-08	CHECKED - AG	REVISED -



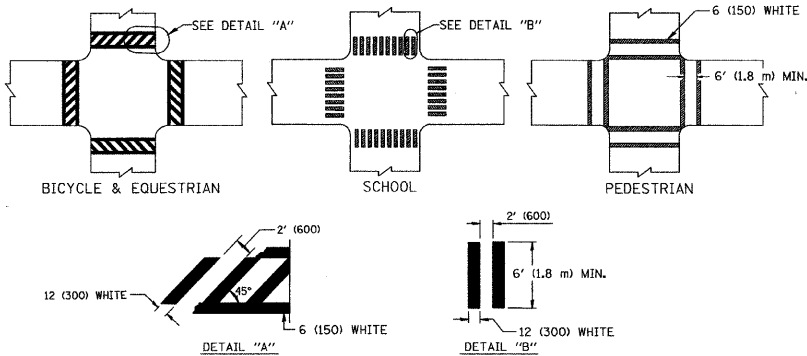
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1621	06-00162-04-TL	COOK	012	012
STA.		TO STA.		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT	CMM-9003(078)	

CONTRACT #63118

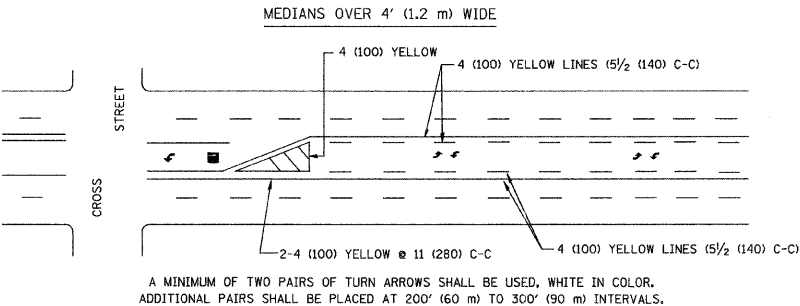
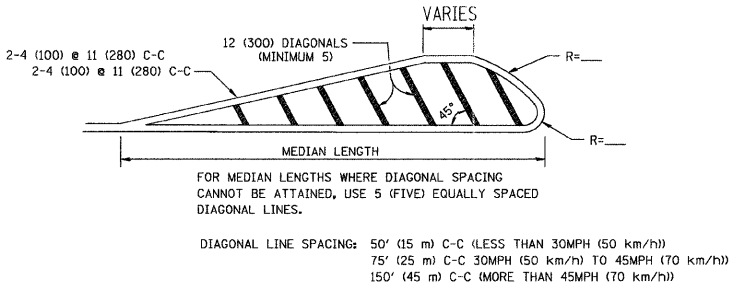
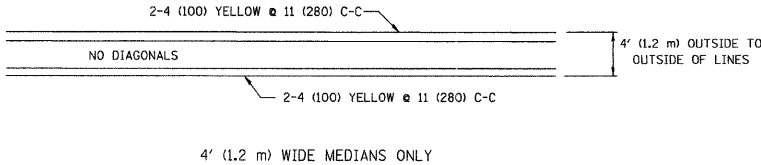


NOTE: MEDIANS WITH BARRIER CURB DO NOT REQUIRE AN EDGE LINE

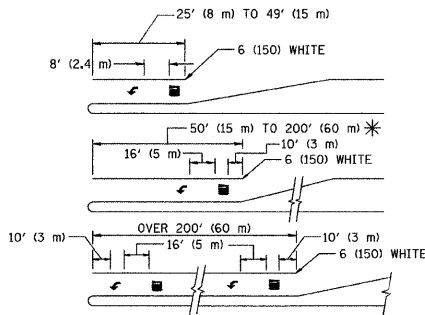
TYPICAL LANE AND EDGE LINE MARKING



TYPICAL CROSSWALK MARKING



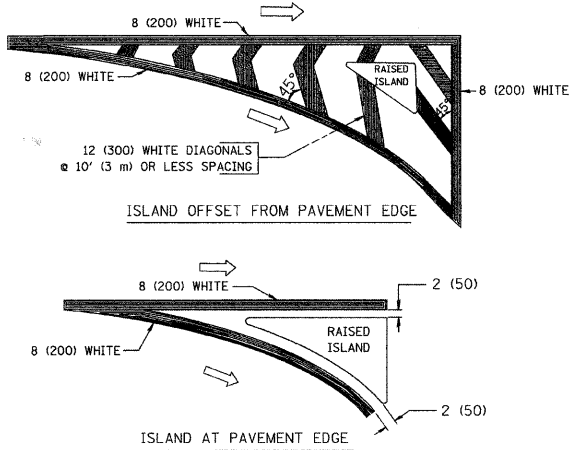
TYPICAL PAINTED MEDIAN MARKING



FULL SIZE LETTERS 8' (2.4 m) AND ARROWS SHALL BE USED.
 * TURN LANES IN EXCESS OF 400' (120 m) 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

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

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

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

FILE NAME =	USER NAME = geglensobt	DESIGNED - EVERS	REVISED -T. RAMMACHER 10-27-94
W:\dstatd\22x34\to13.dgn		DRAWN -	REVISED -A. HOUSEH 10-09-96
	PLOT SCALE = 50.000' / IN.	CHECKED -	REVISED -A. HOUSEH 10-17-96
	PLOT DATE = 1/4/2008	DATE - 03-19-90	REVISED -T. RAMMACHER 01-06-00

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT ONE TYPICAL PAVEMENT MARKINGS				F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
				1025	06-00162-04-TL	COOK	012	012
				TC-13			CONTRACT NO. 63118	
SCALE: NONE	SHEET NO. 012 OF 012 SHEETS	STA.	TO STA.	FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT	CMM-9003(078)	