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- CABLE PLAN, PHASE DESIGNATION DIAGRAM, AND SCHEDULE OF QUANTITIES 79TH STREET & 88TH AVE (CORK AVE)
- TC-13 DISTRICT ONE TYPICAL PAVEMENT MARKINGS

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

PLANS FOR PROPOSED FEDERAL AID HIGHWAY

FAU 1548 (79TH ST) AT FAU 2731 (88TH AVE - CORK AVE) TRAFFIC SIGNAL MODERNIZATION PLANS SECTION NO. 10-00038-00-TL **PROJECT NO. ARA-9003(672) COOK COUNTY** C-91-681-10

LOCATION MAP (NOT TO SCALE)

IDOT STANDARDS: 000001-05 STANDARD SYMBOLS, ABBREVIATIONS & PATTERNS

701006-03

STANDARD SYMBOLS, ABBREVIATIONS & PATTERNS
CURB RAMPS FOR SIDEWALKS
OFF-ROAD OPERATIONS 2L, 2W, 15' TO 24" FROM PAVEMENT EDGE
OFF-ROAD MOVING OPERATIONS, 2L, 2W, DAY ONLY
OFF-ROAD OPERATIONS MULTILANE 15' TO 24" FROM PAVEMENT EDGE
LANE CLOSURE 2L, 2W, SHORT TIME OPERATIONS
URBAN LANE CLOSURE MULTILANE INTERSECTION
TRAFFIC CONTROL DEVICES
STANDARD BLIASE DESIGNATION, DIACRAMS, AND BLIASE SEQUENCES 701.301-0.3

701901-01

STANDARD PHASE DESIGNATION DIAGRAMS AND PHASE SEQUENCES UNINTERRUPTIBLE POWER SUPPLY (UPS)
TRAFFIC SIGNAL GROUNDING & BONDING

TRAFFIC SIGNAL MOUNTING DETAILS

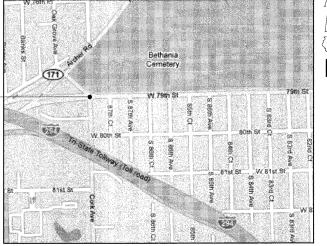
TRAFFIC SIGNAL MODIFICATION PLAN

(IN FEET)

GRAPHIC SCALE

PROJECT IS LOCATED IN THE VILLAGE OF JUSTICE, IL

88TH AVE (CORK AVE)



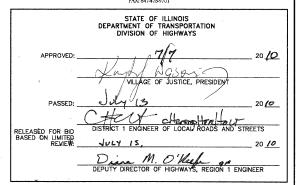
SECTION 26, TOWNSHIP 38, RANGE 12 3RD P.M. SECTION 35, TOWNSHIP 38, RANGE 12 3RD P.M.

LYONS TOWNSHIP NET AND GROSS LENGTH = 235 FEET (0.0445 MILES)

GENALT HAMILTON ASSOCIATES, INC.

LOCATION OF SECTION INDICATED THUS:

850 Forest Edge Drive # Vernon Hills, IL. 60061 Consulting Engineers & Surveyors 847-478-9700 FAX: 847-478-9701



PRINTED BY THE AUTHORITY

OF THE STATE OF ILLINOIS

CONTRACT NO: 63501

JOINT UTILITY INFORMATION FOR FXCAVATION **CALL 811**

PROGR/

ILE NAM

270.800



TRAFFIC DATA:

POSTED SPEED = 45 MPH (79TH ST) 35 MPH (88TH AVE) DESIGN SPEED = 50 MPH (79TH ST), 40 MPH (88TH AVE)

= 32.500 (79TH STREET), 13,300 (88 TH AVE)

= 79TH STREET (MINOR ARTERIAL) FUNCTIONAL. CLASSIFICATION 88TH AVENUE (COLLECTOR-URBAN)

NOTE: SAFETY IS THE SOLE AND EXCLUSIVE

RESPONSIBILITY OF THE CONTRACTOR

ME =	USER NAME = GHA	DESIGNED - JRD	REVISED -
00~TR1.dwg		DRAWN - ZCW	REVISED -
	PLOT SCALE = 1" = .0833'	CHECKED - DPB	REVISED -
	PLOT DATE = 4/29/10	DATE 4/29/10	DE/ICEL)

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

SECTION **COVER SHEET** 1547,2757 10-00038-00-TL COOK CONTRACT #: 63501 SHEET NO. OF SHEETS STA. TO STA. SCALE: N.A.

THE RESIDENT ENGINEER SHALL CONTACT THE TRAFFIC CONTROL SUPERVISOR AT (847) 705-4470 A MINIMUM OF 72 HOURS PRIOR TO THE PLACEMENT OF ANY TEMPORARY TRAFFIC CONTROL DEVICES.

	SUMMA	RY OF QUANTITIES	Y031	-1F
	CODE NO.	ITEM	UNIT	TOTAL QUANTITY
K	20200100	EARTH EXCAVATION	CUYD	7
:	31101200	SUB-BASE GRANULAR MATERIAL, TYPE B, 4"	SQ YD	23
4	42400200	PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH	SQFT	300
K	42400800	DETECTABLE WARNINGS	SQFT	56
¥	44000600	SIDEWALK REMOVAL	SQFT	100
	67100100	MOBILIZATION	L SUM	1
	70102635	TRAFFIC CONTROL AND PROTECTION, STANDARD 701701	LSUM	1
	78000400	THERMOPLASTIC PAVEMENT MARKING - LINE 6"	FOOT	340
	85000200	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
	87301215	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	826
	87301225	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	882
	88030020	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	2
	88030080	SIGNAL HEAD, LED, 1-FACE, 4-SECTION, MAST ARM MOUNTED	EACH	1
	88030110	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED	EACH	2
	88030240	SIGNAL HEAD, LED, 2-FACE, 1-3 SECTION, 1-5 SECTION, BRACKET MOUNTED	EACH	1
	88030320	SIGNAL HEAD, LED, 3-FACE, 1-3 SECTION, 2-5 SECTION BRACKET MOUNTED	EACH	1
	88102717	PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	2
	88102747	PEDESTRIAN SIGNAL HEAD, LED, 2-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	1
	88200210	TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM	EACH	7
	88800100	PEDESTRIAN PUSH-BUTTON	EACH	4
	89502200	MODIFY EXISTING CONTROLLER	EACH	1
	89502375	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
	X8140074	GROUNDING EXISTING HANDHOLE FRAME AND COVER	EACH	6
	X8620020	UNINTERRUPTIBLE POWER SUPPLY	EACH	1
	X8730027	ELECTRIC CABLE IN CONDUIT, GROUNDING, NO. 6 1C	FOOT	535
	X8808120	OPTICALLY PROGRAMMED SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED	EACH	1
	X8808180	OPTICALLY PROGRAMMED SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED	EACH	1
	X8809020	COMBINATION SIGNAL HEAD, LED, 2-FACE, 1-4 SECTION OPTICALLY PROGRAMMED, 1-3 SECTION, BRACKET MOUNTED	EACH	1.
	X8809046	COMBINATION SIGNAL HEAD, LED, 2-FACE, 1-4 SECTION OPTICALLY PROGRAMMED, 1-5 SECTION, BRACKET MOUNTED	EACH	1

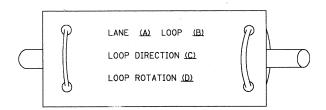
^{*} SPECIALTY ITEM

FILE NAME =	USER NAME = GHA	DESIGNED - JRD	REVISED -			SUMM	ARY OF	QUAN	NTITIES		FAU. RTE	SECTION	COUNTY		₩.
4270.800-TR1.dwg		DRAWN - ZCW	REVISED -	STATE OF ILLINOIS	AND OFFICE ALL MOTES			1547,2757	10-00038-00-TL	COOK	11	2			
	PLOT SCALE = 1" = .0833'	CHECKED - DPB	REVISED -	DEPARTMENT OF TRANSPORTATION					CONTRACT	T#: 635	1				
	PLOT DATE = 4/29/10	DATE - 4/29/10	REVISED -		SCALE: N.A.	SHEET NO.	OF SHEET	rs ST/	A	TO STA		ILLINOIS FED.	ND PROJECT		

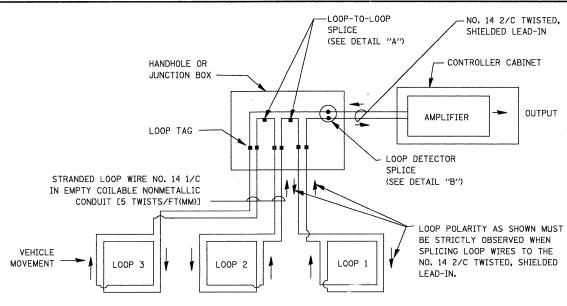
LOOP DETECTOR NOTES

- 1. EACH PAIR OF LOOP WIRES SHALL BE PLACED IN A SEPARATE EMPTY COILABLE NONMETALLIC CONDUIT FROM THE EDGE OF PAVEMENT TO THE HANDHOLE. SPACING BETWEEN THE HOLES DRILLED IN THE PAVEMENT SHALL NOT BE LESS THAN 6" (150 mm). EMPTY COILABLE NONMETALLIC CONDUIT 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 AL! OWED FOR SOLDERING OPERATIONS. SEE DETAIL BELOW RIGHT.
- 7. PREFORMED DETECTOR LOOPS SHALL BE USED, AS SHOWN ON THE PLANS, WHERE NEW CONCRETE PAVEMENT IS PROPOSED. THE INSTALLATION OF PREFORMED LOOPS SHALL BE IN ACCORDANCE WITH THE DISTRICT 1 SPECIFICATIONS OR AS DIRECTED BY THE ENGINEER.

LOOP LEAD-IN CABLE TAG

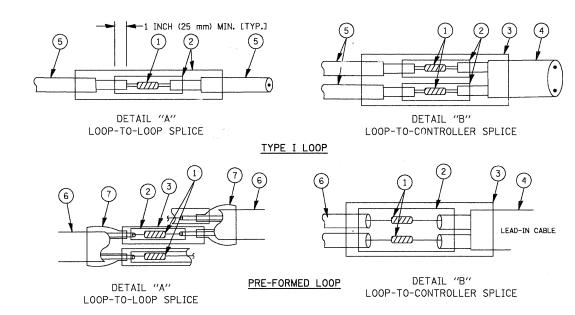


- A. LANE 1 IS THE LANE CLOSEST TO THE CENTERLINE OF THE ROADWAY
- B. LOOP #1 IS THE LOOP IN THE LANE CLOSEST TO THE INTERSECTION.
- C. LABEL LOOP CABLE "IN" OR LOOP CABLE "OUT".
- D. LABEL LOOP CABLE CLOCKWISE OR LOOP CABLE COUNTERCLOCKWISE.



DETECTOR LOOP WIRING SCHEMATIC

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



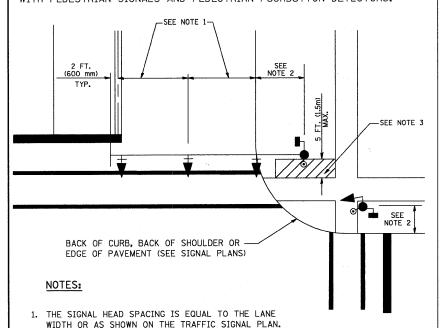
LOOP DETECTOR SPLICE

- 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.
- (6) PRE-FORMED LOOP
- XL POLYOLEFIN 2 CONDUCTOR
 BREAKOUT SEALS. TYCO CBR-2 OR APPROVED EQUAL

LE NAME =	USER NAME = GHA	DESIGNED - JRD	REVISED -			DISTRICT	· 1		F.A.U. RTE.	SECTION	COUNTY	TOTAL SHE	ē.
270.800-TR1.dwg		DRAWN - ZCW	REVISED -	STATE OF ILLINGIS	STANDARD TRAFFIC SIGNAL DESIGN DETAILS		1547,2757	10-00038-00-TL	соок	11 3	, 1		
	PLOT SCALE = 1" = .0833'	CHECKED - DPB	REVISED -	DEPARTMENT OF TRANSPORTATION					CONTRACT :	#: 63501			
	PLOT DATE = 4/29/10	DATE - 4/29/10	REVISED -		SCALE: N.A.	SHEET NO. 1 OF 6 SHEETS	STA.	TO STA.		ILLINOIS FED. A	ID PROJECT		

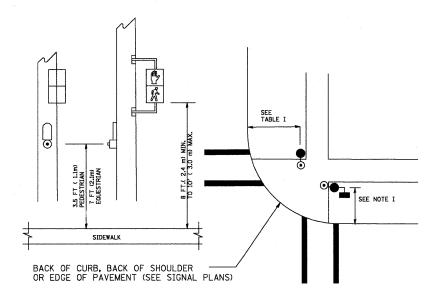
TRAFFIC SIGNAL MAST ARM AND SIGNAL POST

MAST ARM MOUNTED SIGNALS IN EXISTING, PROPOSED OR FUTURE SIDEWALK/BICYCLE PATH AREA. INTERSECTION SHOWN WITH PEDESTRIAN SIGNALS AND PEDESTRIAN PUSHBUTTON DETECTORS.



- 2. REFER TO THE TRAFFIC SIGNAL EQUIPMENT OFFSET TABLE.
- 3. PROVIDE A LEVEL ALL-WEATHER SURFACE (CONCRETE SIDEWALK, ASPHALT BICYCLE PATH SURFACE OR MATCHING MATERIAL TO THE ADJACENT SURFACE) UP TO THE MAST ARM SHAFT OR THE SIGNAL POST.
- 4. THE FACE OF THE PEDESTRIAN PUSHBUTTON SHALL BE PARALLEL TO THE CROSSWALK TO BE USED.
- 5. THE LOCATIONS AND INSTALLATION OF PEDESTRIAN SIGNAL HEADS AND PEDESTRIAN PUSHBUTTONS SHALL MEET THE REQUIREMENTS OF THE MUTCD AND INFORMATION FOUND IN THE "AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES FOR BUILDINGS AND FACILITIES."

PEDESTRIAN SIGNAL POST AND PEDESTRIAN PUSH BUTTON POST



NOTES:

- 1. REFER TO THE TRAFFIC SIGNAL EQUIPMENT OFFSET TABLE.
- 2. PROVIDE A LEVEL ALL-WEATHER SURFACE (CONCRETE SIDEWALK, ASPHALT BICYCLE PATH SURFACE OR MATCHING MATERIAL TO THE ADJACENT SURFACE) UP TO THE PEDESTRIAN SIGNAL POST OR THE PEDESTRIAN PUSH BUTTON POST.
- 3. THE FACE OF THE PEDESTRIAN PUSHBUTTON SHALL BE PARALLEL TO THE CROSSWALK TO BE LISED.
- 4. THE LOCATIONS AND INSTALLATION OF PEDESTRIAN SIGNAL HEADS AND PEDESTRIAN PUSHBUTTONS SHALL MEET THE REQUIREMENTS OF THE MUTCD AND INFORMATION FOUND IN THE "AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES FOR BUILDINGS AND FACILITIES."

RECOMMENDED PUSHBUTTON LOCATIONS 5.0 FT. (1.5 m) MAX. 1.5 FT. (0.45 m) MIN. 1.6 O FT.* (1.8 m) MAX. DOWNWARD SLOPE PEDSSTRIAN PUSHBUTTON PEDSHBUTTON LOCATIONS DOWNWARD SLOPE PEDSSTRIAN PUSHBUTTON PEDSHBUTTON LOCATIONS

- * WHERE THERE ARE CONSTRAINTS THAT MAKE IT IMPRACTICAL TO PLACE THE PEDESTRIAN PUSHBUTTON BETWEEN 1.5 FT (0.45 m) AND 6 FT (1.8 m) FROM THE EDGE OF THE CURB, SHOULDER, OR PAVEMENT, IT SHOULD NOT BE FURTHER THAN 10 FT (3 m) FROM THE EDGE OF CURB, SHOULDER, OR PAVEMENT.
- •• WHERE THERE ARE CONSTRAINTS ON A PARTICULAR CORNER THAT MAKE IT IMPRACTICAL TO PROVIDE THE 10 FT (3 m) SEPERATION BETWEEN THE TWO PEDESTRIAN PUSHBUTTONS, THE PUSHBUTTONS MAY BE PLACED CLOSER TOGETHER OR ON THE SAME POLE.

NOTES:

PEDESTRIAN SIGNAL HEADS SHALL BE MOUNTED WITH THE BOTTOM OF THE SIGNAL HOUSING INCLUDING BRACKETS NOT LESS THAN 8 FT (2.4 m) OR MORE THAN 10 FT (3 m) ABOVE SIDEWALK LEVEL, AND SHALL BE POSITIONED AND ADJUSTED TO PROVIDE MAXIMUM VISIBILITY AT THE BEGINNING OF THE CONTROLLED CROSSWALK.

THE BOTTOM OF THE SIGNAL HOUSING (INCLUDING BRACKETS) OF A VEHICULAR SIGNAL FACE THAT IS NOT LOCATED OVER A HIGHWAY SHALL BE AT LEAST 8 FT (2.4 m) BUT NOT MORE THAN 19 FT (5.8 m) ABOVE THE SIDEWALK OR, IF THERE IS NO SIDEWALK, ABOVE THE PAVEMENT GRADE AT THE CENTER OF THE ROADWAY.

THE BOTTOM OF THE SIGNAL HOUSING AND ANY RELATED ATTACHMENTS TO A SIGNAL FACE LOCATED OVER ANY PORTION OF A HIGHWAY SHALL BE ACCORDING TO CURRENT STATE STANDARDS 877001, 877002, 877006, 877011 AND 877012 WITH A MINIMUM OF 16 FT (5.0 m) AND A MAXIMUM OF 18 FT. (5.5 m) FROM THE HIGHEST POINT OF PAVEMENT.

THE BOTTOM OF THE TEMPORARY SPAN WIRE MOUNTED SIGNAL HOUSING AND ANY RELATED ATTACHMENTS TO A SIGNAL FACE LOCATED OVER ANY PORTION OF A HIGHWAY SHALL BE ACCORDING TO CURRENT STATE STANDARD 880001 WITH A MINIMUM OF 17 FT (5.18 m) FROM THE HIGHEST POINT OF PAVEMENT.

THE TOP OF THE SIGNAL HOUSING OF A SIGNAL FACE LOCATED OVER ANY PORTION OF A HIGHWAY SHALL NOT BE MORE THAN 25.6 FT (7.8 m) ABOVE THE PAVEMENT.

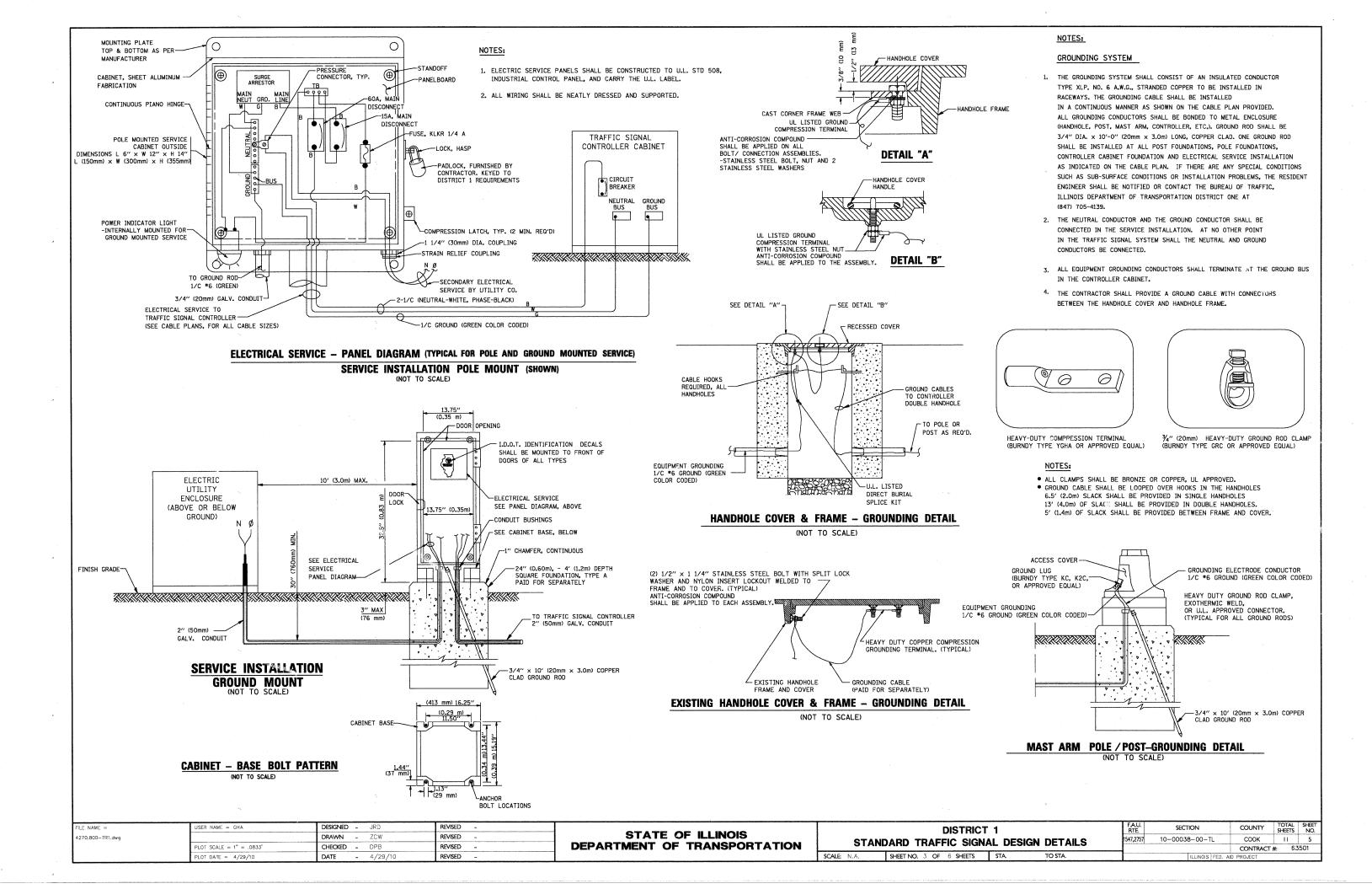
TRAFFIC SIGNAL EQUIPMENT OFFSET

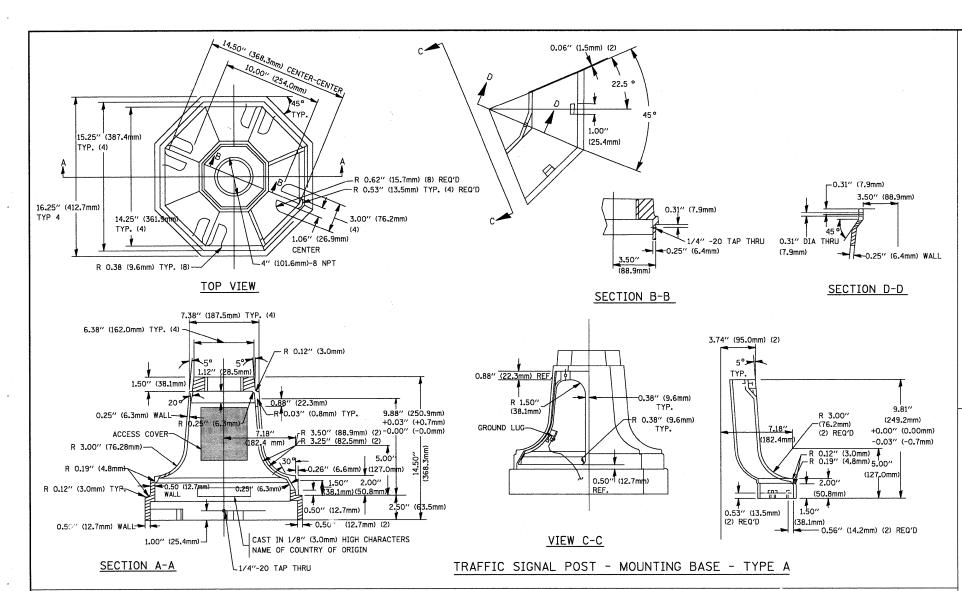
TRAFFIC SIGNAL EQUIPMENT	COMBINATION CONCRETE CURB AND GUTTER (MINIMUM DISTANCE FROM BACK OF CURB TO CENTERLINE OF FOUNDATION)	SHOULDER/NON-CURBED AREA (MINIMUM DISTANCE FROM EDGE OF PAVEMENT TO CENTERLINE OF FOUNDATION)
TRAFFIC SIGNAL MAST ARM POLE	6 FT (1.8m)	SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10 FT (3.0m)
TRAFFIC SIGNAL POST	4 FT (1.2m)	SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10 FT (3.0m)
PEDESTRIAN SIGNAL POST	4 FT (1.2m)	SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10 FT (3.0m)
PEDESTRIAN PUSHBUTTON POST	4 FT (1.2m)	SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10 FT (3.0m)
TEMPORARY WOOD POLE	6 FT (1.8m)	SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10 FT (3.0m)
CONTROLLER CABINET	6 FT (1.8m) MINIMUM DISTANCE SEE NOTE 2	SHOULDER WIDTH + 6 FT (1.8m), MINIMUM 16 FT (4.9m) SEE NOTE 3.
SERVICE INSTALLATION, GROUND MOUNT	6 FT (1.8m) MINIMUM DISTANCE SEE NOTE 2	SHOULDER WIDTH + 6 FT (1.8m), MINIMUM 16 FT (4.9m) SEE NOTE 3.

NOTES:

- 1. CONTACT THE "AREA TRAFFIC SIGNAL MAINTENANCE AND OPERATIONS ENGINEER" FOR ASSISTANCE IN LOCATING THE TRAFFIC SIGNAL EQUIPMENT WHEN THERE ARE CONFLICTS WITH DITCHES OR THE MINIMUM OFFSET DISTANCES CANNOT BE MET.
- 2. MINIMUM DISTANCE FROM THE BACK OF CURB TO THE ROADWAY SIDE OF THE FOUNDATION.
- 3. MINIMUM DISTANCE FROM THE EDGE OF PAVEMENT TO THE ROADWAY SIDE OF THE FOUNDATION.
- 4. ANY CHANGES TO THE OFFSETS OF THE FOUNDATIONS, FROM THE MINIMUM DISTANCES LISTED IN THE "TRAFFIC SIGNAL EQUIPMENT OFFSET" CHART AND THE TRAFFIC SIGNAL INSTALLATION PLAN, COULD EFFECT THE PLACEMENT OF THE SIGNAL HEADS, PEDESTRIAN SIGNAL HEADS AND THE PEDESTRIAN PUSHBUTTONS. THE SIGNAL HEAD PLACEMENT ON THE MAST ARMS SHALL REMAIN AS PER THE TRAFFIC SIGNAL INSTALLATION PLAN AND THE "TRAFFIC SIGNAL MAST ARM AND SIGNAL POST" DETAIL ABOVE. THE PROPOSED MAST ARM LENGTHS MAY NEED TO BE REVISED TO MEET THE ABOVE REQUIREMENTS. THE PEDESTRIAN SIGNAL HEADS AND PEDESTRIAN PUSHBUTTONS MUST MEET THE REQUIREMENTS UNDER THE DETAILS ON THIS SHEET.

FILE NAME =	USER NAME = GHA	DESIGNED -	JRD	REVISED	-				DISTRI	CT 1		FAU. RTE.	SECTION	COUNTY	TOTAL SHEET SHEETS NO.
4270.800-TR1.dwg		DRAWN -	ZÇW	REVISED	-	STATE OF ILLINOIS	STAR	IDADD TDA			ESIGN DETAILS	1547,2757	10-00038-00-TL	соок	11 4
	PLOT SCALE = 1" = .0833'	CHECKED -	DPB	REVISED	-	DEPARTMENT OF TRANSPORTATION	SIAI	IDAND INA	AFFIC SIC	AITAL D	*			CONTRACT :	#: 63501
	PLOT DATE = 4/29/10	DATE -	4/29/10	REVISED	-		SCALE: N.A.	SHEET NO. 2	OF 6 SHEETS	STA.	TO STA.		ILLINOIS FED. A	ID PROJECT	

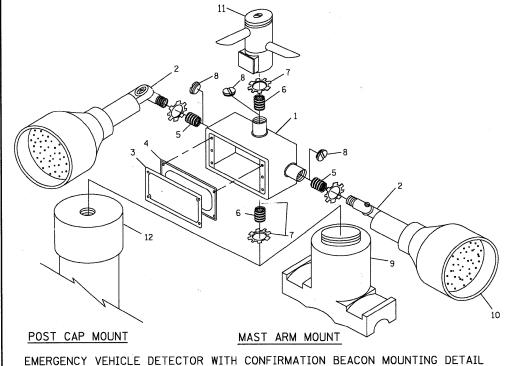




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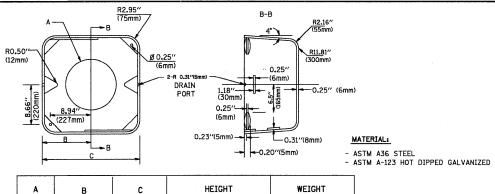
4270,800-- TR1.dwa

ITEM	NO.	IDENTIFICATION
1	OU.	TLET BOX- GALV. 21 CU.IN. (0.000344 CU-M)
2		MP HOLDER AND COVER
3	OU.	TLET BOX COVER
4	RU	BBER COVER GASKET
5	REI	DUCING BUSHING
6	3/4'	(19 mm) CLOSE NIPPLE
7	3/4'	(19 mm) LOCKNUT
8	3/4'	(19 mm) HOLE PLUG
9	SAI	DDLE BRACKET - GALV.
10	6	NATT PAR 38 LED FLOOD LAMP
11	DE.	TECTOR UNIT
12	PO:	ST CAP [18 FT. (5.4 m) POST MIN.]

NOTES:

- ALL ELECTRICAL ITEMS, EXCEPT ITEMS *2 AND *11 SHALL BE ALUMINUM OR GALVANIZED
- 2. ITEM #1- OZ/GEDNEY FSX-1-50 OR EQUIVALENT
 ITEM #2- MULBERRY CON-O-SHADE LAMP SHIELD OR EQUIVALENT
 ITEM #9- "BAND-IT" SADDLE BRACKET OR EQUIVALENT
- 3. WHEN POST MOUNTING IS SPECIFIED, ITEM *9 SHALL NOT BE REQUIRED. THE DETECTION UNIT SHALL BE MOUNTED DIRECTLY ON TOP OF THE CAP BY DRILLING AND TAPPING A ¾"(19 mm) HOLE WITH PIPE THREADS. THE POST CAP SHALL EITHER BE SCREWED TO THE TOP OF THE POST OR A MINIMUM OF 3 TIGHTENING SCREWS SHALL BE REQUIRED ON EACH CAP.

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

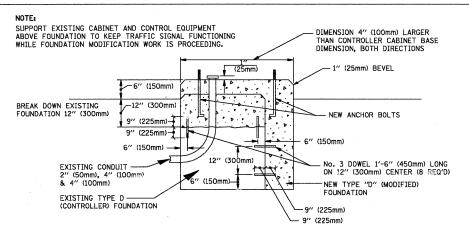


A	В	С	HEIGHT	WEIGHT
VARIES	9.5"(241mm)	19"(483mm)	7" (178mm) - 12" (300mm)	53 lbs (24kg)
VARIES	10.75"(273mm)	21.5"(546mm)	7" (178mm) - 12" (300mm)	68 lbs (31 kg)
VARIES	13.0"(330mm)	26"(660mm)	7" (178mm) - 12" (300mm)	81 lbs (37 kg)
VARIES	18.5"(470mm)	37"(940mm)	7" (178mm) ~ 12" (300mm)	126 lbs (57 kg)

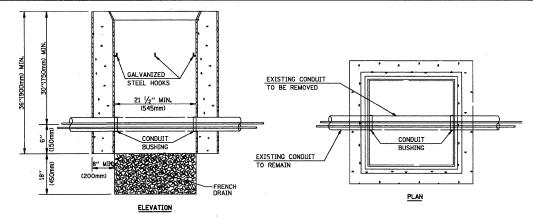
SHROUD

NOTES:

- 1. DIMENSION "A" IS EQUAL TO THE DIAMETER OF THE MAST ARM POLE AT THE TOP OF THE SHROUD. THE SHROUD SHALL BE TIGHT TO THE MAST ARM POLE.
- 2. THE SUPPLIER SHALL VERIFIED THE ABOVE DIMENSIONS BASED ON MAST ARM REQUIREMENTS.
- 3. THE HEIGHT OF THE SHROUD SHALL COVER THE ANCHOR BOLTS, NUTS AND MAST ARM POLE BASE.



MODIFY EXISTING TYPE "D" FOUNDATION

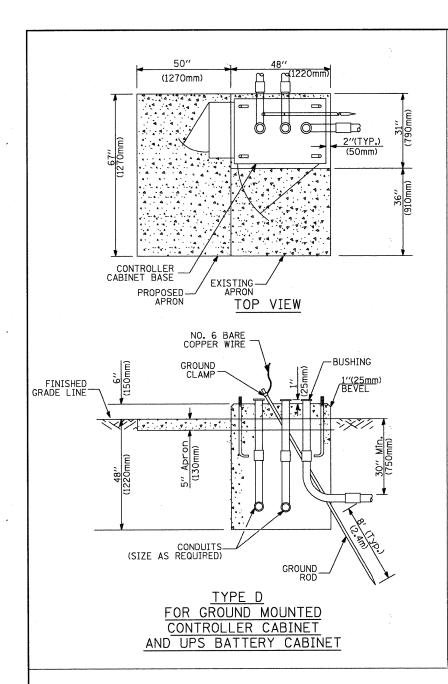


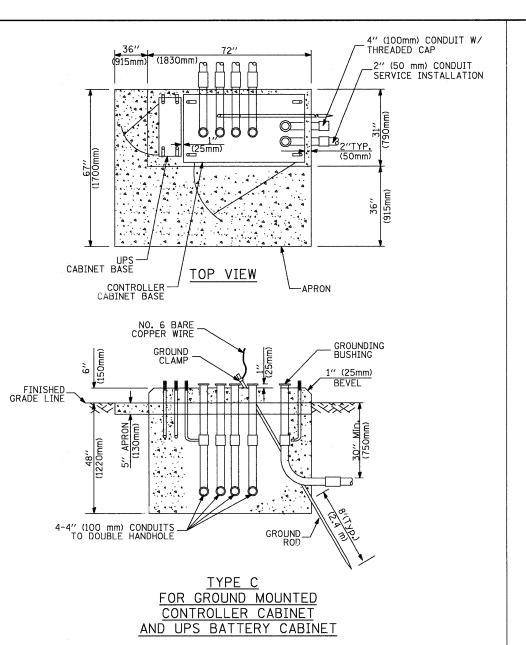
NOTES:

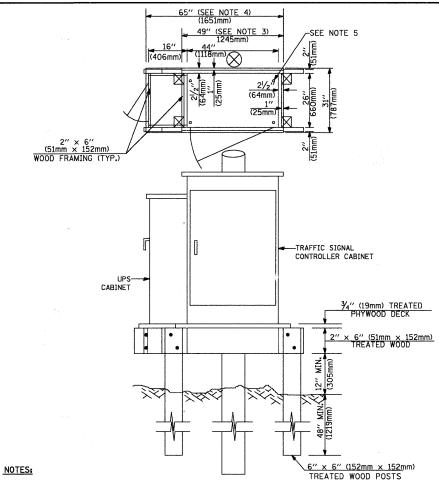
- 1. HANDHOLE CONSTRUCTED PER STATE STANDARD 814001.
- 2. REMOVAL OF THE EXISTING CONDUIT FROM THE HANDHOLE AND THE INSTALLATION OF THE CONDUIT BUSHINGS SHALL BE INCIDENTAL TO THE HANDHOLE.

HANDHOLE TO INTERCEPT EXISTING CONDUIT

				-					
		DISTRICT	· 1		F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEE NO.
	STANDARD TRAFFIC SIGNAL DESIGN DETAILS				1547,2757	10-00038-00-TL	COOK	11	6
	JIAN	AND INALLIC CIGHT	AL DEGIG	Y DE I AILO			CONTRACT	#: 63	3501
E: N	.A.	SHEET NO. 4 OF 6 SHEETS	STA.	TO STA.		ILLINOIS FED. A	ID PROJECT		







- BASED ON CONTROLLER CABINET TYPE IV WITH BASE DIMENSIONS OF 26" x 44" (660mm x 1118mm).
 ADJUST PLATFORM SIZE TO FIT CABINET BASE DIMENSIONS BEING SUPPLIED.
- 2. BASED ON UNINTERRUPTIBLE POWER SUPPLY CABINET WITH BASE DIMENSIONS OF 16" x 25" (406mm x 635mm). ADJUST PLATFORM SIZE TO FIT CABINET BASE DIMENSIONS BEING SUPPLIED.
- 3. PLATFORM SIZE FOR CONTROLLER CABINET TYPE IV.

Mast Arm Lenath

Less than 30' (9.1 m)

Greater than or equal to 30' (9.1 m) and less than 40' (12.2 m)

Greater than or equal to 40' (12.2 m) and less than 50' (15.2 m)

Greater than or equal to 50' (15.2 m) and up to 55' (16.8 m)

Greater than or equal to 56' (16.8 m) and less than 65' (19.8 m)

- 4. PLATFORM SIZE FOR CONTROLLER CABINET TYPE IV AND UNINTERRUPTIBLE POWER SUPPLY CABINET.
- 5. DRILLED HOLES THROUGH THE PLATFORM BASE TO MATCH THE CONTROLLER CABINET BOLT TEMPLATE. FASTEN THE CONTROLLER CABINET TO THE PLATFORM WITH CARRIAGE BOLTS, WASHERS AND NUTS.
- 6. FASTEN ALL SUPPORT WOOD FRAMING TO THE WOOD PUSTS WITH 2 LAG SCREWS FOR EACH CONNECTION.

TEMPORARY SIGNAL CONTROLLER WOOD SUPPORT PLATFORM

① Foundation Depth

13'-6" (4.1 m)

11'-0" (3.4 m)

13'-0" (4.0 m)

15'-0" (4.6 m)

21'-0" (6.4 m)

25'-0" (7.6 m)

10'-0" (3.0 m) 30" (750mm)

CABLE SLACK LENGTH	FEET	METER
HANDHOLE	6.5	2.0
DOUBLE HANDHOLE	13.0	4.0
SIGNAL POST	2.0	0.6
MAST ARM	2.0	0.6
CONTROLLER CABINET	1.5	0.5
FIBER OPTIC AT CABINET	13.0	4.0
ELECTRIC SERVICE AT (CABINET OR SERVICE LOCATION)	1.5	0.5
GROUND CABLE (SIGNAL POST, MAST ARM, CABINET)	1.5	0.5
GROUND CABLE (BETWEEN FRAME AND COVER)	5.0	1.6

CABLE SLACK

VERTICAL CABLE LENGTH	FEET	METER
MAST ARM POLE (MAST ARM MOUNTED SIGNAL HEAD)		
(L = MAST ARM LENGTH - DISTANCE TO SIGNAL HEAD FROM END OF ARM)	20.0+L	6.0+L
BRACKET MOUNTED (MAST ARM POLE OR SIGNAL POLE)	13.0	4.0
PEDESTRIAN PUSH BUTTON	6.0	2.0
SERVICE INSTALLATION POLE MOUNT TO SERVICE DROP	13.5	4.1
SERVICE INSTALLATION POLE MOUNT TO GROUND	13.5	4.1
SERVICE INSTALLATION GROUND MOUNT	6.0	2.0
FOUNDATION (SIGNAL POST, MAST ARM POLE, CONTROLLER CABINET, SERVICE-GROUND MOUNT)	3.0	1.0

VERTICAL CABLE LENGTH

DEPTH	OF	FOUNDATION
444-4-4-4-		

FOUNDATION	DEPTH
TYPE A - Signal Post	4'-0" (1.2m)
TYPE C - CONTROLLER W/ UPS	4'-0" (1.2m)
TYPE D - CONTROLLER	4'-0" (1.2m)
SERVICE INSTALLATION, GROUND MOUNT, TYPE A - SQUARE	4'-0" (1.2m)

Greater than or equal to 65' (19.8 m) and up to 75' (22.9 m) NOTES:

1. These foundation depths are for sites which have cohesive soils (clayey silt, sandy clay, etc.) along the length of the shaft, with an average Unconfined Compressive Strength (Qu) > 1.0 tsf (100 kpa). This strength shall be verified by boring data prior to construction or with testing by the Engineer during foundation drilling. The Bureau of Bridges & structures should be contacted for a revised design if other conditions are encountered.

Quantity of Size of Rebars Rebars

12

12

12

6(19)

6(19)

7(22)

7(22)

7(22)

8(25)

8(25)

TOTAL SHEET NO.

Spiral

Diameter

24" (600mm)

24" (600mm)

30" (750mm)

30" (750mm)

30" (750mm)

36" (900mm)

36" (900mm)

Foundation Diameter

30" (750mm)

36" (900mm)

36" (900mm)

36" (900mm

42" (1060mm)

42" (1060mm)

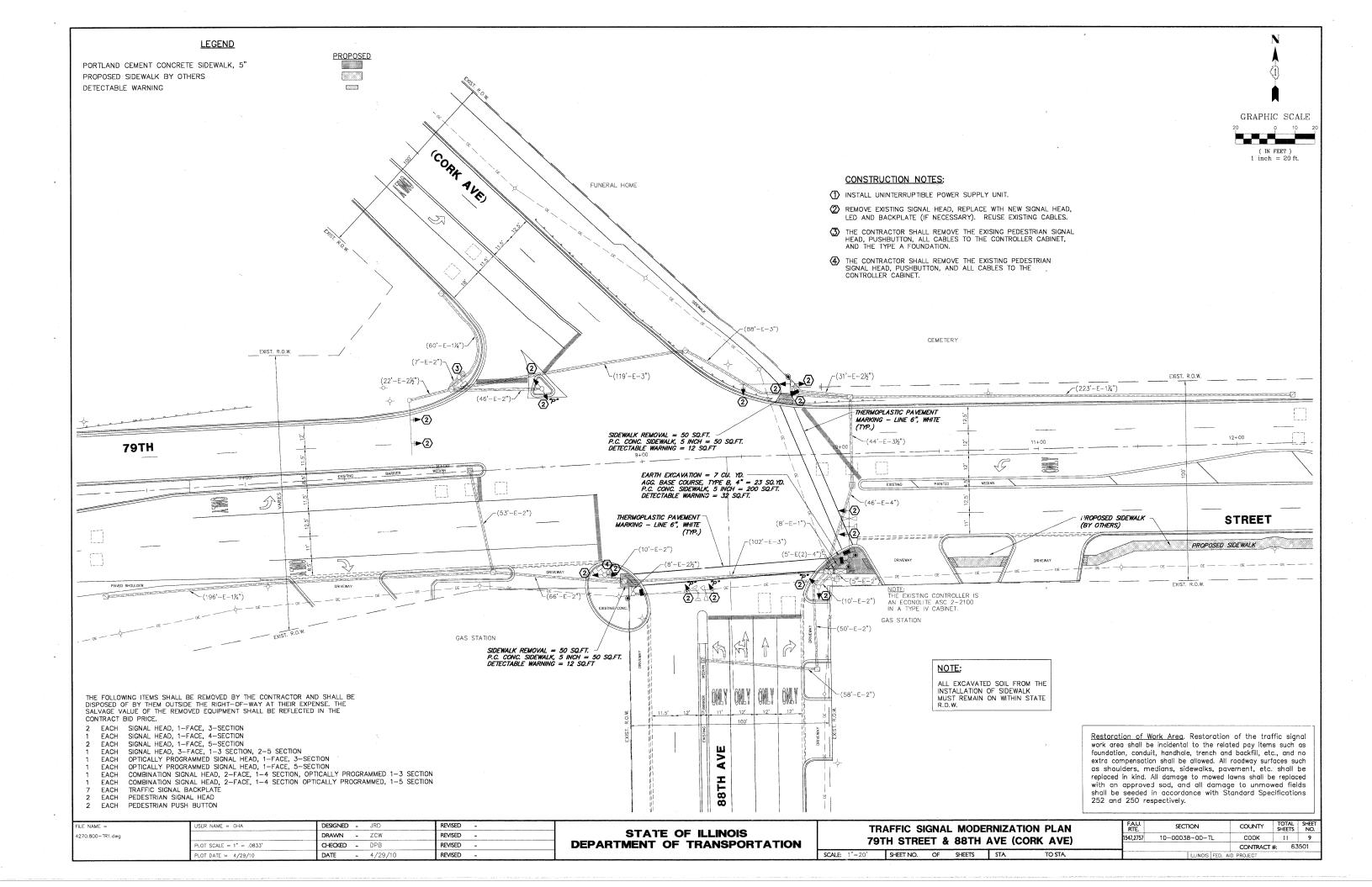
- 2. Combination mast arm assembles under 55 feet (16.8 m) shall use 36" (900 mm) diameter foundations.
- 3. Combination mast arm assemblies under 56 feet (16.8 m) through 75 feet (22.9 m) shall use 42" (1060 mm) diameter foundations.
- 4. For mast arm assemblies with dual arms refer to state standard 878001.

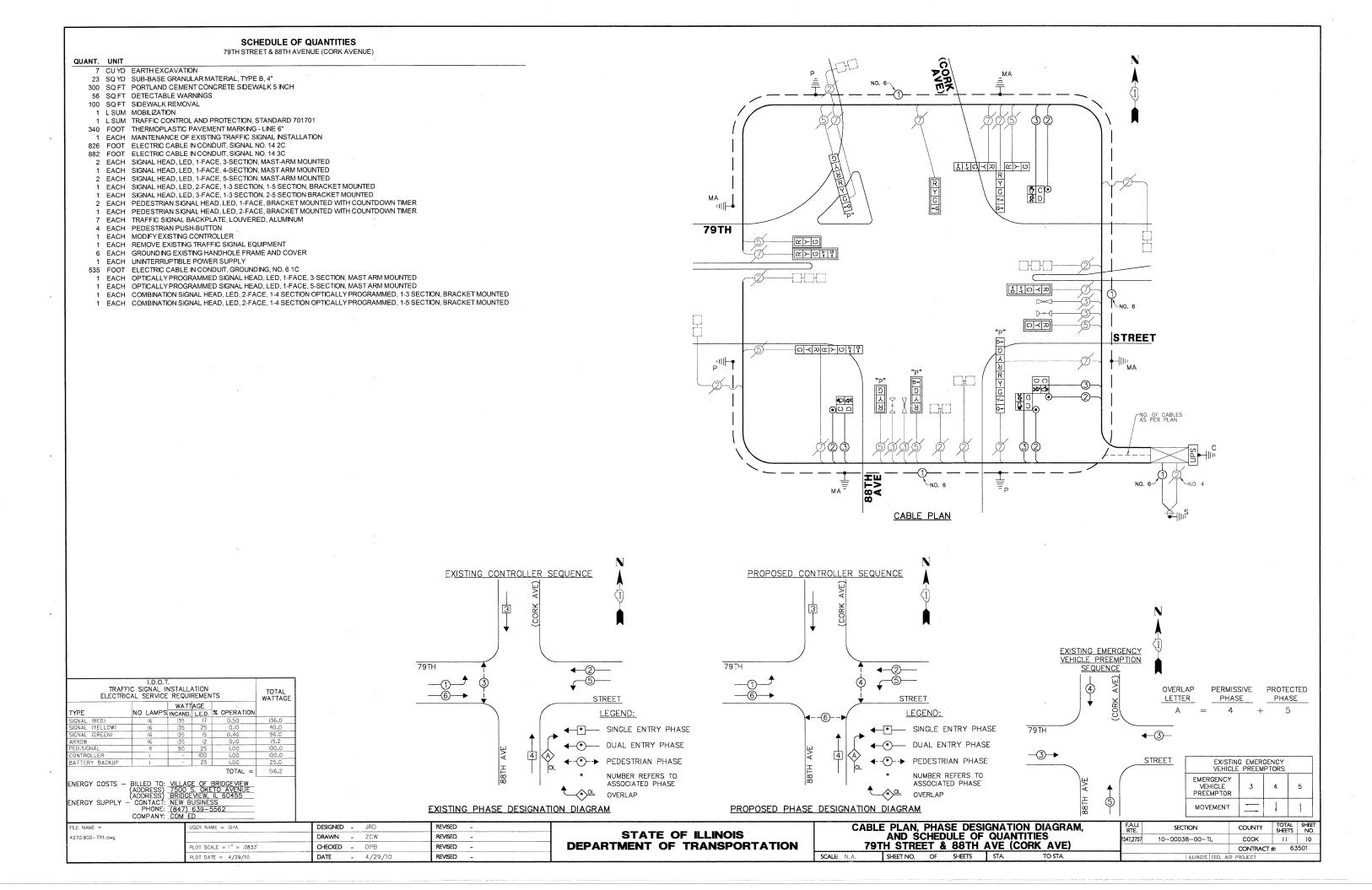
DEPTH OF MAST ARM FOUNDATIONS, TYPE E

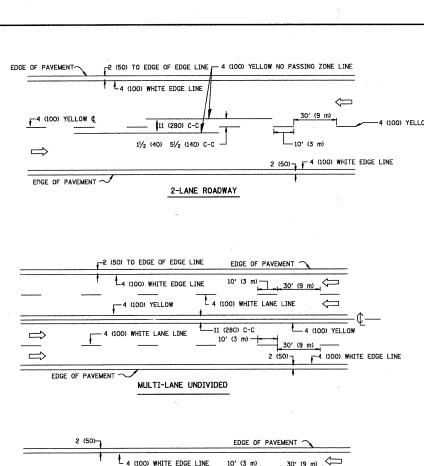
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4270.800 TR1.dwg		DRAWN - ZGW	REVISED -	STATE OF ILLINOIS			STANDARD TRAFFIC SIGNAL DESIGN DETAILS		10-00038-00-TL	соок	T
·	PLOT SCALE = 1".= .0833"	CHECKED - DPB	REVISED ~	DEPARTMENT OF TRANSPORTATION	STAN	DARD TRAFFIC SIGNA	AL DESIGN DETAILS			CONTRACT	#:
	PLOT DATE = 4/29/10	DATE - 4/29/10	REVISED ~		SCALE: N.A. SHEET NO. 5 OF 6 SHEETS STA		STA. TO STA.		ILLINOIS FED	. AID PROJECT	

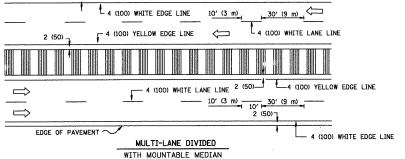
TRAFFIC SIGNAL LEGEND

ITEM	REMOVAL	EXISTING	PROPOSED	ITEM	REMOVAL	EXISTING	PROPOSED	ITEM REN	OVAL EXISTING	PROPOSED
CONTROLLER CABINET	\bowtie R			EMERGENCY VEHICLE LIGHT DETECTOR	R ≪	\bowtie	•	ELECTRIC CABLE IN CONDUIT, TRACER, NO. 14 1/C, UNLESS NOTED OTHERWISE		
RAILROAD CONTROL CABINET		R R		CONFIRMATION BEACON	R_{o-0}	o()	•		~	
COMMUNICATIONS CABINET	C C	E C C	CC	HANDHOLE	R⊠			COAXIAL CABLE	—(c)—	
MASTER CONTROLLER		EMC	MC					VENDOR CABLE FOR CAMERA	₩.	
MASTER MASTER CONTROLLER	R	EMMC	MMC	HEAVY DUTY HANDHOLE	R	H	(3)		(v)	V
UNINTERRUPTIBLE POWER SUPPLY	UPS	EUPS	UPS	DOUBLE HANDHOLE	R			COPPER INTERCONNECT CABLE, NO. 18 3 PAIR TWISTED, SHIELDED	6	6
SERVICE INSTALLATION, (P) POLE OR (G) GROUND MOUNT	- <u></u> -	- <u>-</u> -	- ■ P	JUNCTION BOX GALVANIZED STEEL CONDUIT	R 🔘	<u></u>	•	FIBER OPTIC CABLE NO. 62.5/125, MM12F	(12F)	
TELEPHONE CONNECTION (P) POLE OR (G) GROUND MOUNT	R	P	P	IN TRENCH (T) OR PUSHED (P) TEMPORARY SPAN WIRE, TETHER WIRE,	R	And the second sec		FIBER OPTIC CABLE NO. 62.5/125, MM12F SM12F	245	—24F)—
STEEL MAST ARM ASSEMBLY AND POLE	RO	0	•	AND CABLE				FIBER OPTIC CABLE NO. 62.5/125,		
ALUMINUM MAST ARM ASSEMBLY AND POLE	R	0		COMMON TRENCH			CT	(NUMBER OF FIBERS & TYPE TO BE	-5-	
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH LUMINAIRE	RO-X	0->≭	• ×	COILABLE NONMETALLIC CONDUIT (EMPTY) SYSTEM ITEM		S	CNC S	NOTED ON PLANS) GROUND ROD AT (C) CONTROLLER, (H) HANDHOLE, (P) POST, (M) MAST ARM,	° III—•	^C ⊪—•
STEEL COMBINATION MAST ARM	R PTZ[]	PTZ 1	PTZ	INTERSECTION ITEM		Ι	IP	OR (S) SERVICE	111	"
ASSEMBLY AND POLE WITH PTZ CAMERA SIGNAL POST		0		REMOVE ITEM	R			CONTROLLER CABINET AND	CF	
TEMPORARY WOOD POLE (CLASS 5 OR	^R O R⊗	⊗	•	RELOCATE ITEM	RL					
BETTER) 45 FOOT (13.7m) MINIMUM	-	\$		ABANDON ITEM	А			STEEL MAST ARM POLE AND FOUNDATION TO BE REMOVED	· · · · · · · · · · · · · · · · · · ·	
GUY WIRE SIGNAL HEAD	R	>	<i>></i>	12" (300mm) TRAFFIC SIGNAL SECTION		R	R	ALUMINUM MAST ARM POLE AND RMF FOUNDATION TO BE REMOVED	The state of the s	
SIGNAL HEAD CONSTRUCTION STAGES (NUMBERS INDICATE THE CONSTRUCTION STA			- - ²	12" (300mm) RED WITH 8" (200mm) YELLOW AND GREEN TRAFFIC SIGNAL FACE		X		STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH LUMINAIRE AND		
SIGNAL HEAD WITH BACKPLATE	+\(\text{R}\)	+	+			R	R	FOUNDATION TO BE REMOVED		
SIGNAL HEAD OPTICALLY PROGRAMMED	R -□>"P"	—>"P"	→ "P"	SIGNAL FACE		G	G 4 Y	SIGNAL POST AND FOUNDATION TO BE REMOVED	MF	
FLASHER INSTALLATION (S DENOTES SOLAR POWER)	R O- ▷ ′′F′′	O-D'″F″	●→ "F"				∢ G	INTERSECTION & SAMPLING (SYSTEM) DETECTOR	IS	IS
PEDESTRIAN SIGNAL HEAD	R []	-[]	-1			R	R	SAMPLING (SYSTEM) DETECTOR	[5]	S
PEDESTRIAN PUSHBUTTON DETECTOR	R	(•	SIGNAL FACE WITH BACKPLATE. "P" INDICATES PROGRAMMED HEAD			G 4Y	EXISTING INTERSECTION LOOP DETECTOR PROPOSED INTERSECTION AND SAMPLING (SYSTEM) DETECTOR	[P]	
ACCESSIBLE PEDESTRIAN PUSHBUTTON DETE	CTOR @ APS	@APS	♠ APS			(P)	4 G	EXISTING PREFORMED INTERSECTION LOOP DETECTOR	[PP]	
ILLUMINATED SIGN "NO LEFT TURN"	R		9	12" (300mm) PEDESTRIAN SIGNAL HEAD		(W)	Г	PROPOSED INTERSECTION AND SAMPLING (SYSTEM) DETECTOR PREFORMED INTERSECTION AND SAMPLING	66 PISI 66	PIS
ILLUMINATED SIGN "NO RIGHT TURN"	R			WALK/DON'T WALK SYMBOL 12" (300mm) PEDESTRIAN SIGNAL HEAD		(W) (D)		(SYSTEM) DETECTOR PREFORMED SAMPLING (SYSTEM) DETECTOR	PS	PS
DETECTOR LOOP, TYPE I				INTERNATIONAL SYMBOL, OUTLINED			procession.		åå	••
PREFORMED DETECTOR LOOP		P	Р	12" (300mm) PEDESTRIAN SIGNAL HEAD INTERNATIONAL SYMBOL, SOLID		()	*	RAILROAD SY	MBOLS	
MICROWAVE VEHICLE SENSOR	R [M]]	(M)	M∎	PEDESTRIAN SIGNAL HEAD, INTERNATIONAL SYMBOL, WITH COUNTDOWN TIMER		● C (3) D	₽ C		EXISTING	PROPOSED
VIDEO DETECTION CAMERA	R [V]	(V)	[\(\frac{1}{2}\)]	RADIO INTERCONNECT	 R O		 •	RAILROAD CONTROL CABINET		E► <e< td=""></e<>
VIDEO DETECTION ZONE				RADIO REPEATER	R ERR	ERR	RR	RAILROAD CANTILEVER MAST ARM	XOX	XeX X X
PAN, TILT, ZOOM CAMERA	R PTZ[]	P17)1	PIZI	DENOTES NUMBER OF CONDUCTORS, ELECTRI				FLASHING SIGNAL	∑ ⊖∑	X OX
WIRELESS DETECTOR SENSOR	RW	(W)	W	CABLE NO. 14, UNLESS NOTED OTHERWISE, ALL DETECTOR LOOP CABLE TO BE SHIELDE	D			CROSSING GATE	202	X⊕X ►
WIRELESS ACCESS POINT	R			GROUND CABLE IN CONDUIT NO. 6 SOLID COPPER (GREEN)		(1)	(1)	CROSSBUCK	*	*
FILE NAME = USER NAME = GHA 4270.800-TR1.dwg		DESIGNED - JRD DRAWN - ZCW	REVISED -	STAT	E OF ILLIN	ois		DISTRICT 1	FAU. SECTION	COUNTY TOTAL SHEETS NO.
PLOT SCALE == 1" =		CHECKED - DPB	REVISED -	DEPARTMENT				STANDARD TRAFFIC SIGNAL DESIGN DETAILS	1547,2757 10-00038-00-TL	COOK II 8 CONTRACT #: 63501
PLOT DATE = 4/2	9/10	DATE - 4/29/10	REVISED -				SCALE: N.	A. SHEET NO. 6 OF 6 SHEETS STA. TO STA	ILLINOIS FE	D. AID PROJECT



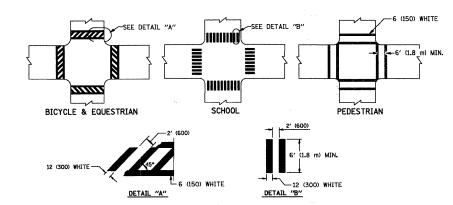




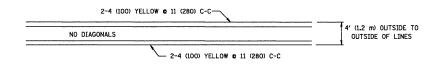


TYPICAL LANE AND EDGE LINE MARKING

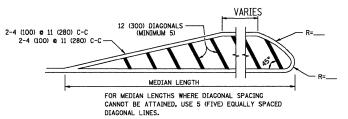
NOTE: MEDIANS WITH BARRIER CURB DO NOT REQUIRE AN EDGE LINE



TYPICAL CROSSWALK MARKING

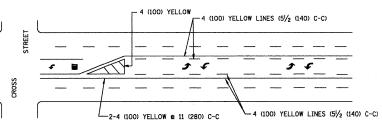


4' (1.2 m) WIDE MEDIANS ONLY

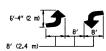


DIAGONAL LINE SPACING: 50' (15 m) C-C (LESS THAN 30MPH (50 km/h))
75' (25 m) C-C 30MPH (50 km/h) TO 45MPH (70 km/h))
150' (45 m) C-C (MORE THAN 45MPH (70 km/h))

MEDIANS OVER 4' (1.2 m) WIDE

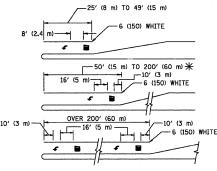


A MINIMUM OF TWO PAIRS OF TURN ARROWS SHALL BE USED, WHITE IN COLOR, ADDITIONAL PAIRS SHALL BE PLACED AT 200' (60 m) TO 300' (90 m) INTERVALS.



MEDIAN WITH TWO-WAY LEFT TURN LANE

TYPICAL PAINTED MEDIAN MARKING

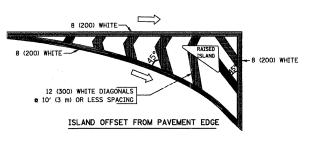


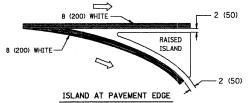
FULL SIZE LETTERS 8' (2.4 m) AND ARROWS SHALL BE USED. \P AREA = 15.6 SQ. FT. (1.5 m²) AREA = 20.8 SQ. FT. (1.9 m²)

* 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	5½ (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	SKIP-DASH AND SOLID	YELLOW	10' (3 m) LINE WITH 30' (9 m) SPACE FOR SKIP-DASH; 5½ (140) C-C BETWEEN SOLID LINE AND SKIP-DASH LINE
	8' (2.4m) 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 9 6 (150) 12 (300) 9 45° 12 (300) 9 90°	SOLID SOLID SOLID	WHITE WHITE WHITE	NOT LESS THAN 6' (1.8 m) APART 2' (GOO) APART 2' (GOO) APART SEE TYPICAL CROSSWALK MARKING DETAILS.
STOP LINES	24 (600)	SOID	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 e 4 (100) WITH 12 (300) DIAGONALS	SOLID	YELLOW: TWO WAY TRAFFIC	11 (280) C-C FOR THE DOUBLE LINE
	NO DIAGONALS USED FOR 4' (1.2 m) WIDE MEDIANS		WHITE: ONE WAY TRAFFIC	SEE TYPICAL PAINTED MEDIAN MARKING.
GORE MARKING AND CHANNELIZING LINES	8 (200) WITH 12 (300) DIAGONALS @ 45°	SOLID	WHITE	DIACONALS: 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 STATE STANDARD 780001 AREA 0F: "R"=3.6 SQ. FT. (0.33 m ²) EACH "X"=54.0 SQ. FT. (5.0 m ²)
SHOULDER DIAGONALS	12 (300) e 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) T0 45MPH (70 km/h)) 150' (45 m) C-C (OVER 45MPH (70 km/h))

FOR FURTHER DETAILS ON PAYEMENT 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 = GHA	DESIGNED	-	JRD	REVISED	-
4270.800-TR1.dwg		DRAWN	-	ZCW	REVISED	-
	PLOT SCALE = 1" = .0833'	CHECKED	-	DPB	REVISED	
	PLOT DATE = 4/29/10	DATE		4/29/10	REVISED	-

STAT	E 0	F ILLINOIS	
DEPARTMENT	OF	TRANSPOF	RTATION

 DISTRICT 1								SECTION	COUNTY	TOTAL SHEE SHEETS NO	
TYPICAL PAVEMENT MARKINGS							1547,2757	10-00038-00-TL	соок	11	- 11
I TPICAL PAVEMENT MARKINGS									CONTRACT	#: 63	501
SCALE: N.A.	SHEET NO.	OF	SHEETS	STA.	TO STA.			ILLINOIS FED. A	ID PROJECT		