



F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
307	2011-100-TS	KANE	23	1
		ILLINOIS	CONTRACT NO. 60R33	

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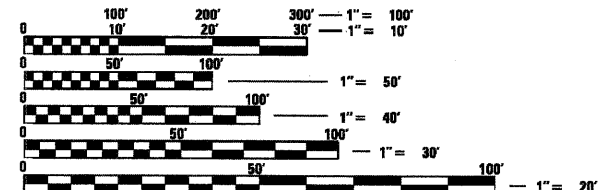
**DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS**

**PROPOSED
HIGHWAY PLANS**
FAP ROUTE 307
(IL ROUTE 64 - 7TH ST. TO 7TH AVE.)
SECTION 2011-100-TS
PROJECT: HSIP-0307(036)
TRAFFIC SIGNAL MODERNIZATION
KANE COUNTY

C-91-067-12



- STANDARDS**
- 02 701001: OFF-ROAD OPERATIONS 2L, 2W, MORE THAN 15' (4.5 m) AWAY
 - 03 701006: OFF-ROAD OPERATIONS 2L, 2W, 15' (4.5 m) TO 24" (600 mm) FROM PAVEMENT EDGE
 - 02 701011: OFF-ROAD MOVING OPERATIONS, 2L, 2W, DAY ONLY
 - 02 701101: OFF-ROAD OPERATIONS MULTILANE, 15' (4.5 m) TO 24" (600 mm) FROM PAVEMENT EDGE
 - 02 701106: OFF-ROAD OPERATIONS MULTILANE, MORE THAN 15' (4.5 m) AWAY
 - 04 701301: LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
 - 08 701606: URBAN LANE CLOSURE, MULTILANE, 2W WITH MOUNTABLE MEDIAN
 - 08 701701: URBAN LANE CLOSURE MULTILANE INTERSECTION
 - 05 701801: LANE CLOSURE, MULTILANE 1W OR 2W CROSSWALK OR SIDEWALK CLOSURE
 - 02 701901: TRAFFIC CONTROL DEVICES
 - 01 857001: STANDARD PHASE DESIGNATION DIAGRAMS AND PHASE SEQUENCES
 - 01 862001: UNINTERRUPTABLE POWER SUPPLY (UPS)
 - 01 880006: TRAFFIC SIGNAL MOUNTING DETAILS



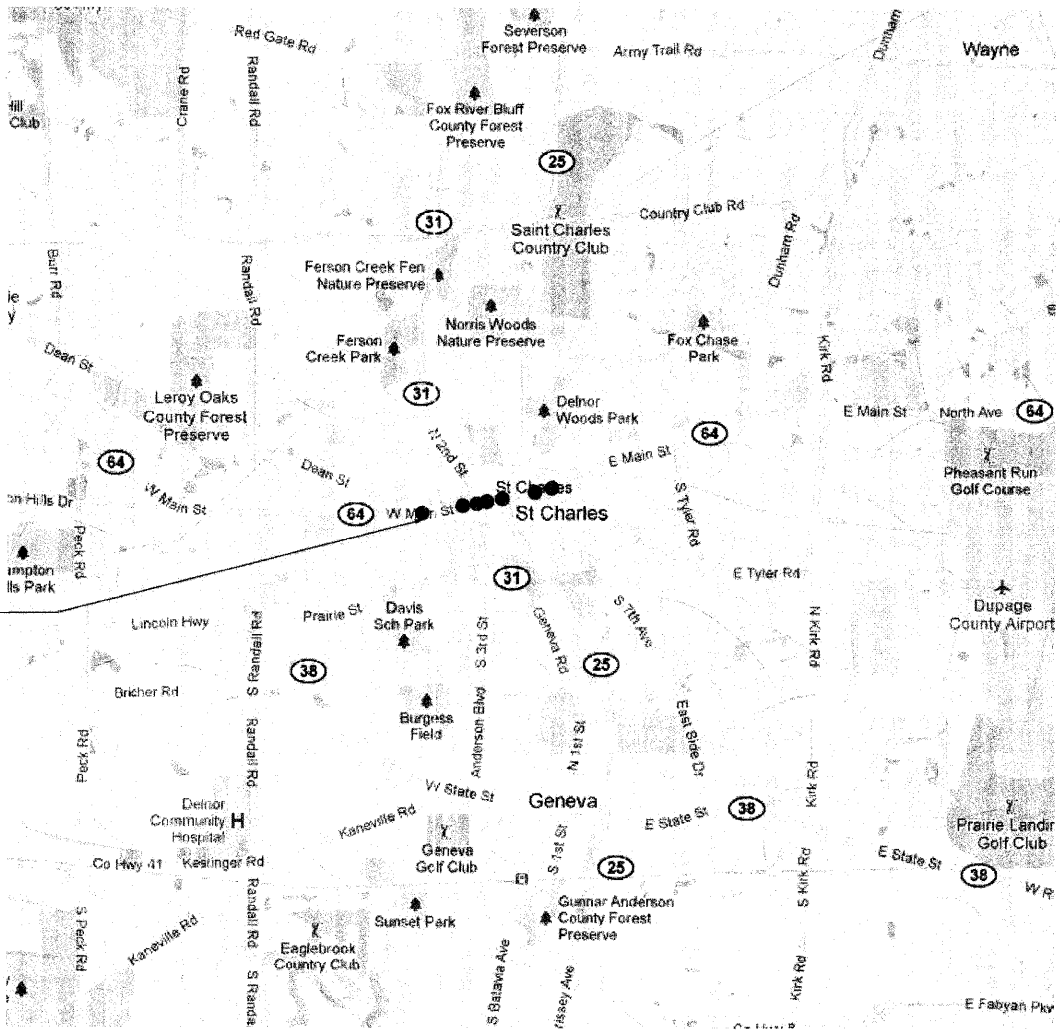
FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

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

PROJECT ENGINEER
PROJECT MANAGER

CONTRACT NO. 60R33

- IL ROUTE 64 (MAIN STREET) AT 7TH STREET
- IL ROUTE 64 (MAIN STREET) AT 3RD STREET
- IL ROUTE 64 (MAIN STREET) AT 2ND STREET
- IL ROUTE 64 (MAIN STREET) AT 1ST STREET
- IL ROUTE 64 (MAIN STREET) AT 1ST AVENUE
- IL ROUTE 64 (MAIN STREET) AT 5TH AVENUE
- IL ROUTE 64 (MAIN STREET) AT 7TH AVENUE



Daniel West
12-15-11

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

SUBMITTED Dec 16 20 11

Deane M. O'Keefe
DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER

February 3 20 12
John B. Buannelli P.E.
acting ENGINEER OF DESIGN AND ENVIRONMENT

February 3 20 12
William R. Fleenor
acting DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

**PRINTED BY THE AUTHORITY
OF THE STATE OF ILLINOIS**

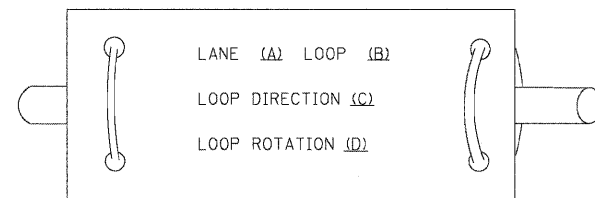
SUMMARY OF QUANTITIES

				90% I. FED. / 5% STATE / 5% ST. CHARLES	90% I. FED. / 10% STATE / 0% ST. CHARLES	90% I. FED. / 10% STATE / 0% ST. CHARLES	90% I. FED. / 10% STATE / 0% ST. CHARLES	90% I. FED. / 10% STATE / 0% ST. CHARLES	90% I. FED. / 10% STATE / 0% ST. CHARLES	90% I. FED. / 10% STATE / 0% ST. CHARLES
				IL 64 @	IL 64 @	IL 64 @	IL 64 @	IL 64 @	IL 64 @	IL 64 @
				7TH STREET	3RD STREET	2ND STREET	1ST STREET	1ST AVENUE	5TH AVENUE	7TH AVENUE
LOCATION OF WORK				URBAN						
				CONSTRUCTION CODE	0021	0021	0021	0021	0021	0021
SUMMARY OF QUANTITIES				GRAND TOTAL						
CODE NO.	ITEM	UNIT	GRAND TOTAL							
67100100	MOBILIZATION	LSUM	1.0	0.142	0.143	0.143	0.143	0.143	0.143	0.143
70102625	TRAFFIC CONTROL AND PROTECTION, STANDARD 701606	LSUM	1.0	0.142	0.143	0.143	0.143	0.143	0.143	0.143
70102635	TRAFFIC CONTROL AND PROTECTION, STANDARD 701701	LSUM	1.0	0.142	0.143	0.143	0.143	0.143	0.143	0.143
70102640	TRAFFIC CONTROL AND PROTECTION, STANDARD 701801	LSUM	1.0	0.14	0.143	0.143	0.143	0.143	0.143	0.143
85000200	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	7.0	1	1	1	1	1	1	1
87301215	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	137.0							137
87301225	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	144.0							144
87301805	ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2C	FOOT	215.0				215			
88030020	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	9.0					6	3	
88030050	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	8.0		2		3	2		1
88030100	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	9.0		2			2	3	2
88030110	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED	EACH	7.0					2	5	
88030220	SIGNAL HEAD, LED, 2-FACE, 5-SECTION, BRACKET MOUNTED	EACH	1.0						1	
88030240	SIGNAL HEAD, LED, 2-FACE, 1-3 SECTION, 1-5 SECTION, BRACKET MOUNTED	EACH	1.0							1
88102717	PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	10.0	6			2		2	
88102747	PEDESTRIAN SIGNAL HEAD, LED, 2-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	21.0	1	4	4	1	4	3	4
88200210	TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM	EACH	16.0					8	8	
88800100	PEDESTRIAN PUSH-BUTTON	EACH	31.0	7	4	4	3	4	5	4
89502375	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	7.0	1	1	1	1	1	1	1
X862.0200	UNINTERRUPTABLE POWER SUPPLY SPECIAL	EACH	6.0	1	1	1	1	1	1	
X8950093	RELOCATE EXISTING ELECTRIC SERVICE METER	EACH	1.0				1			

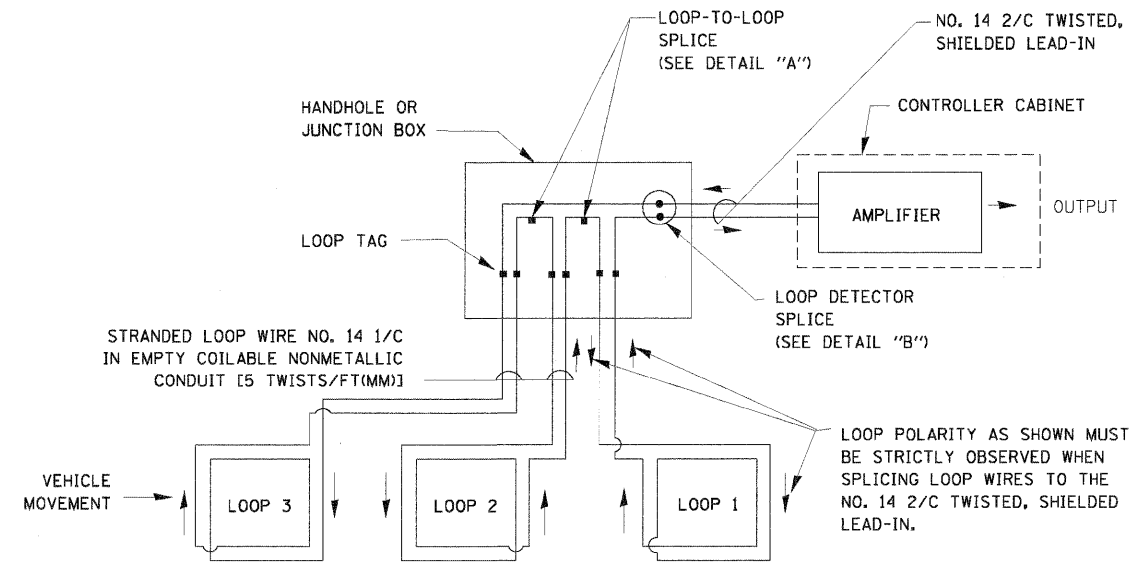
LOOP DETECTOR NOTES

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 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

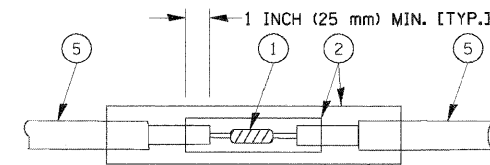


- A. LANE 1 IS THE LANE CLOSEST TO THE CENTERLINE OF THE ROADWAY
- B. LOOP #1 IS THE LOOP IN THE LANE CLOSEST TO THE INTERSECTION.
- C. LABEL LOOP CABLE "IN" OR LOOP CABLE "OUT".
- D. LABEL LOOP CABLE CLOCKWISE OR LOOP CABLE COUNTERCLOCKWISE.

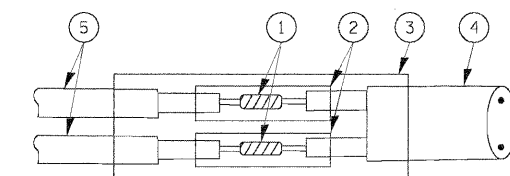


DETECTOR LOOP WIRING SCHEMATIC

- 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.

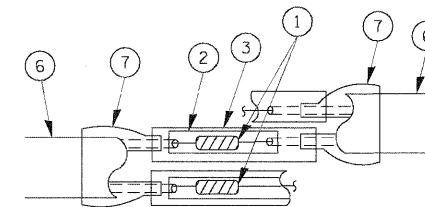


**DETAIL "A"
 LOOP-TO-LOOP SPLICE**

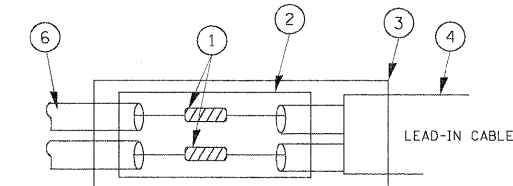


**DETAIL "B"
 LOOP-TO-CONTROLLER SPLICE**

TYPE I LOOP



**DETAIL "A"
 LOOP-TO-LOOP SPLICE**



**DETAIL "B"
 LOOP-TO-CONTROLLER SPLICE**

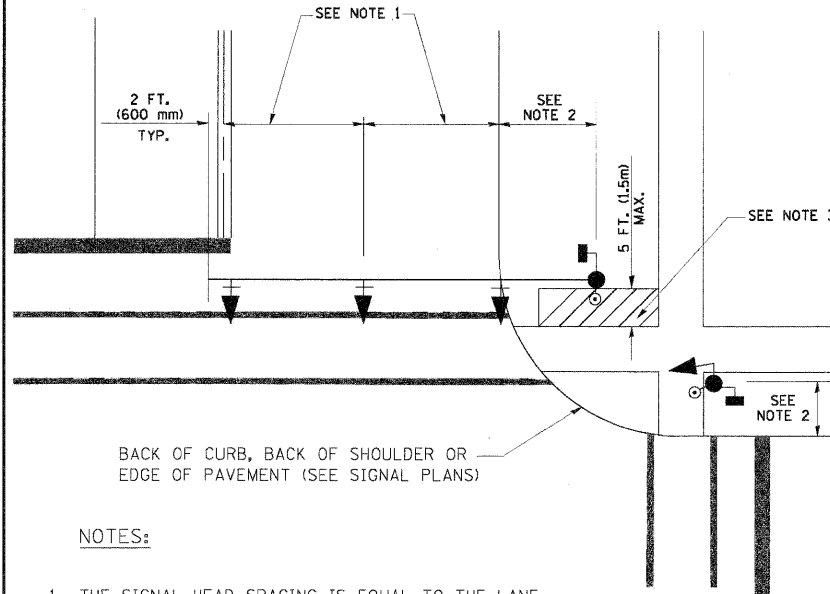
LOOP DETECTOR SPLICE

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

FILE NAME =	USER NAME = USERNAME	DESIGNED - DW	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DISTRICT ONE - STANDARD TRAFFIC SIGNAL DESIGN DETAILS	F.A.P. RTE. 307	SECTION 2011-100-TS	COUNTY KANE	TOTAL SHEETS 23	SHEET NO. 3		
k:\projects\11043\design\sheet files\64_rwaDET01.dgn	PLOT SCALE = 20.0000' / IN.	DRAWN - JDH	REVISED -			SCALE: N.T.S.	SHEET NO. 1 OF 6 SHEETS	STA. TO STA.	CONTRACT NO. 60R33			
	PLOT DATE = 12/14/2011	CHECKED - KMM	REVISED -			ILLINOIS FED. AID PROJECT						
		DATE -	REVISED -									

TRAFFIC SIGNAL MAST ARM AND SIGNAL POST

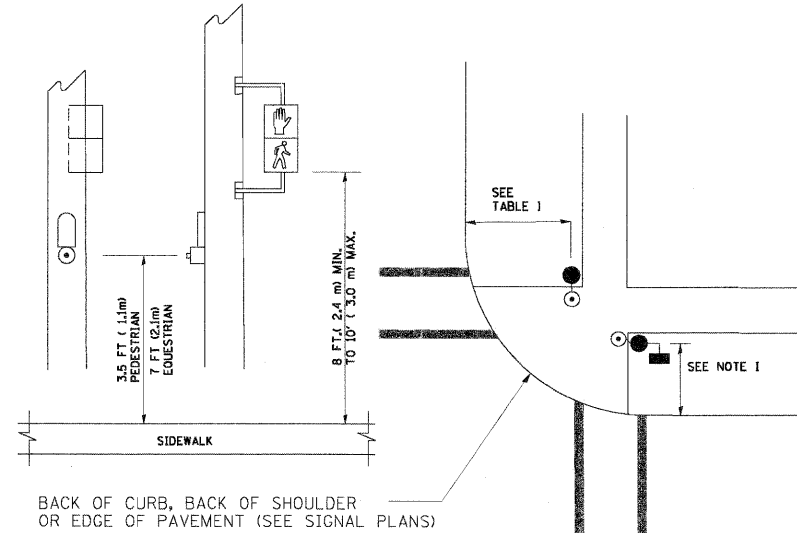
MAST ARM MOUNTED SIGNALS IN EXISTING, PROPOSED OR FUTURE SIDEWALK/BICYCLE PATH AREA. INTERSECTION SHOWN WITH PEDESTRIAN SIGNALS AND PEDESTRIAN PUSHBUTTON DETECTORS.



NOTES:

1. THE SIGNAL HEAD SPACING IS EQUAL TO THE LANE WIDTH OR AS SHOWN ON THE TRAFFIC SIGNAL PLAN.
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."

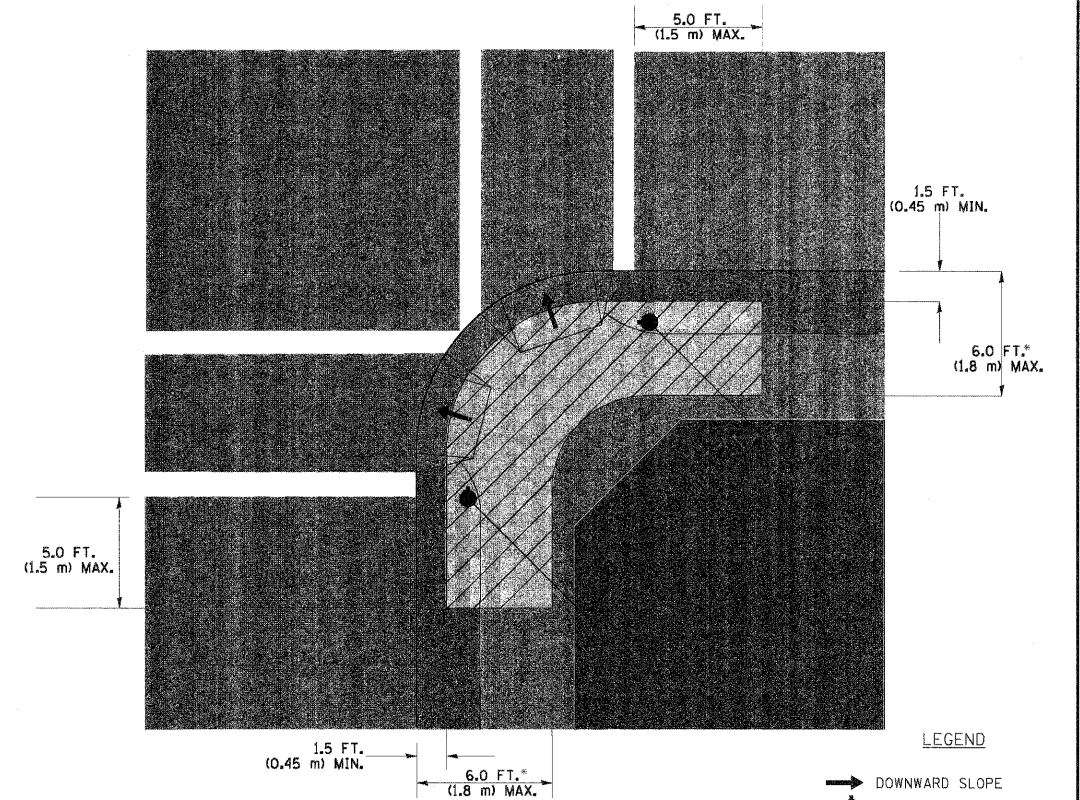
PEDESTRIAN SIGNAL POST AND PEDESTRIAN PUSH BUTTON POST



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 USED.
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



LEGEND

- DOWNWARD SLOPE
- PEDESTRIAN PUSHBUTTON
- ▨ RECOMMENDED PUSHBUTTON 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:

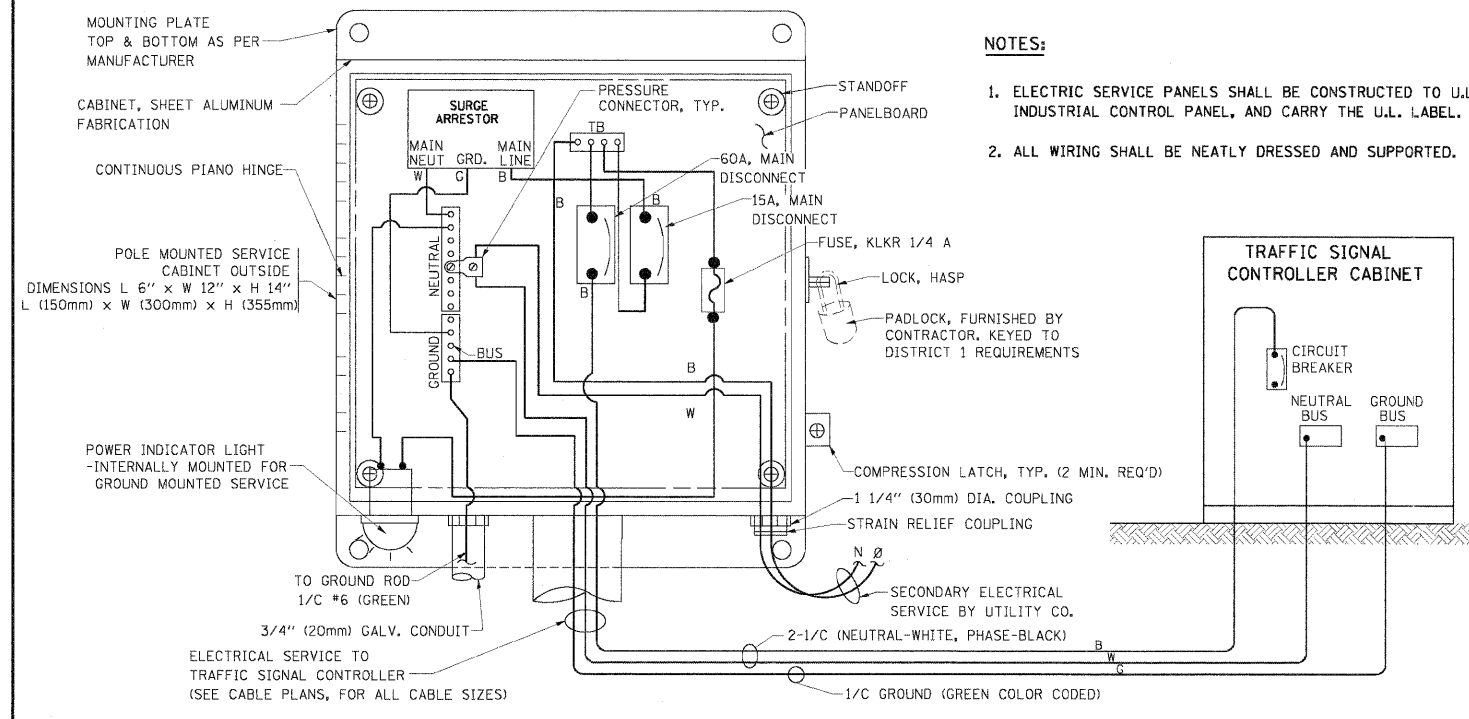
1. PEDESTRIAN SIGNAL HEADS SHALL BE MOUNTED WITH THE BOTTOM OF THE SIGNAL HOUSING INCLUDING BRACKETS NOT LESS THAN 8 FT (2.4 m) OR MORE THAN 10 FT (3 m) ABOVE SIDEWALK LEVEL, AND SHALL BE POSITIONED AND ADJUSTED TO PROVIDE MAXIMUM VISIBILITY AT THE BEGINNING OF THE CONTROLLED CROSSWALK.
2. THE BOTTOM 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.
3. 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.
4. 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.
5. 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

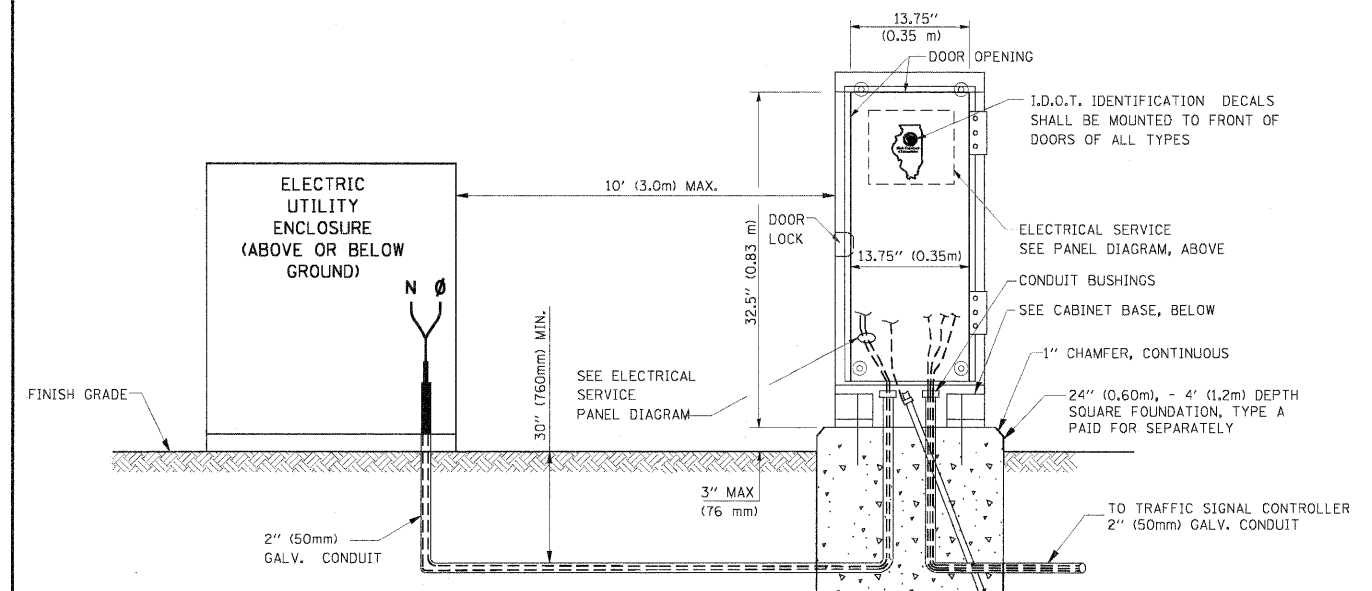
TRAFFIC SIGNAL EQUIPMENT	COMBINATION CONCRETE CURB AND GUTTER (MINIMUM DISTANCE FROM BACK OF CURB TO CENTERLINE OF FOUNDATION)	SHOULDER/NON-CURBED AREA (MINIMUM DISTANCE FROM EDGE OF PAVEMENT TO CENTERLINE OF FOUNDATION)
TRAFFIC SIGNAL MAST ARM POLE	6 FT (1.8m)	SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10 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.

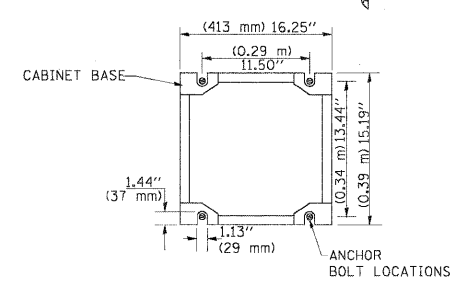


ELECTRICAL SERVICE - PANEL DIAGRAM (TYPICAL FOR POLE AND GROUND MOUNTED SERVICE)
SERVICE INSTALLATION POLE MOUNT (SHOWN)
 (NOT TO SCALE)

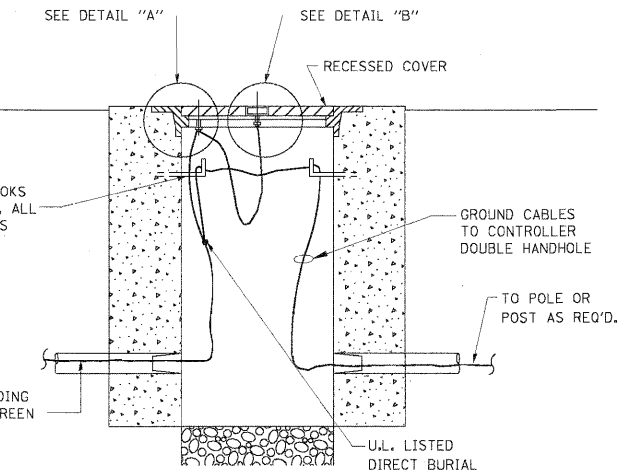
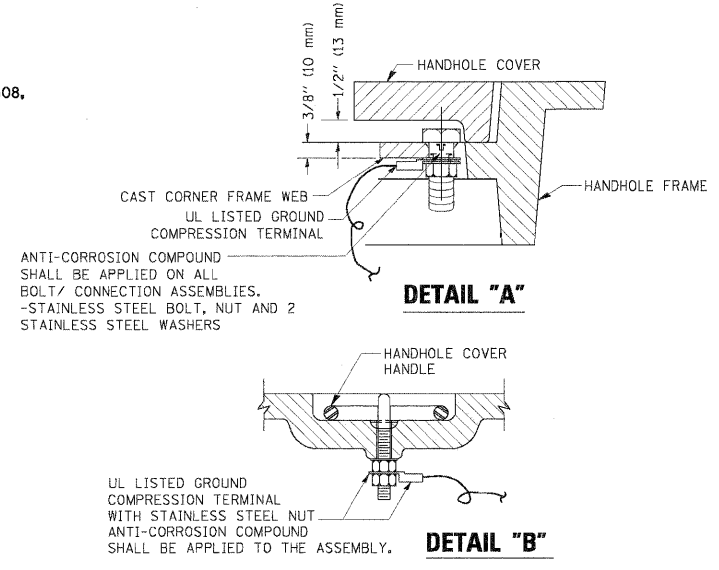


SERVICE INSTALLATION GROUND MOUNT
 (NOT TO SCALE)

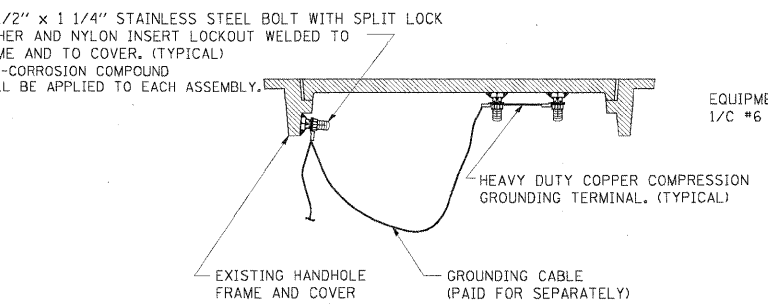
CABINET - BASE BOLT PATTERN
 (NOT TO SCALE)



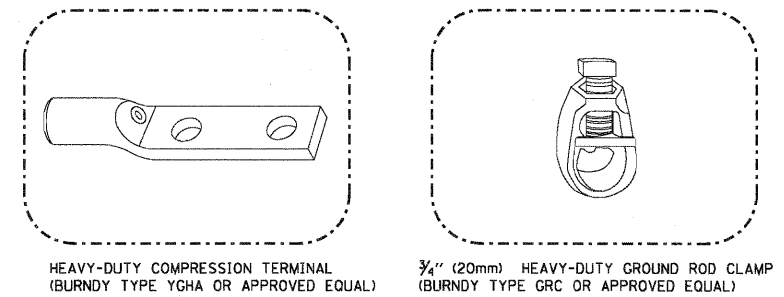
- NOTES:**
1. ELECTRIC SERVICE PANELS SHALL BE CONSTRUCTED TO U.L. STD 508, INDUSTRIAL CONTROL PANEL, AND CARRY THE U.L. LABEL.
 2. ALL WIRING SHALL BE NEATLY DRESSED AND SUPPORTED.



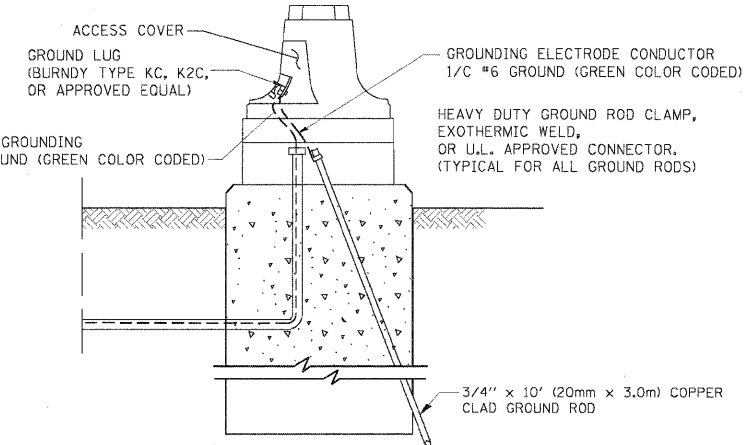
HANDHOLE COVER & FRAME - GROUNDING DETAIL
 (NOT TO SCALE)



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



- 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)

FILE NAME =	USER NAME = .USERNAME_	DESIGNED - DW	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DISTRICT ONE - STANDARD TRAFFIC SIGNAL DESIGN DETAILS	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
k:\projects\11043\design\sheet files\	64_rwdet03.dgn	DRAWN - JDH	REVISED -			307	2011-100-TS	KANE	23	5	
PLOT SCALE = 20.0000' / IN.	CHECKED - KMM	REVISED -	REVISED -			CONTRACT NO. 60R33					
PLOT DATE = 12/14/2011	DATE -	REVISED -	REVISED -			[ILLINOIS] FED. AID PROJECT					
						SCALE: N.T.S.	SHEET NO. 3 OF 6 SHEETS	STA.	TO STA.		

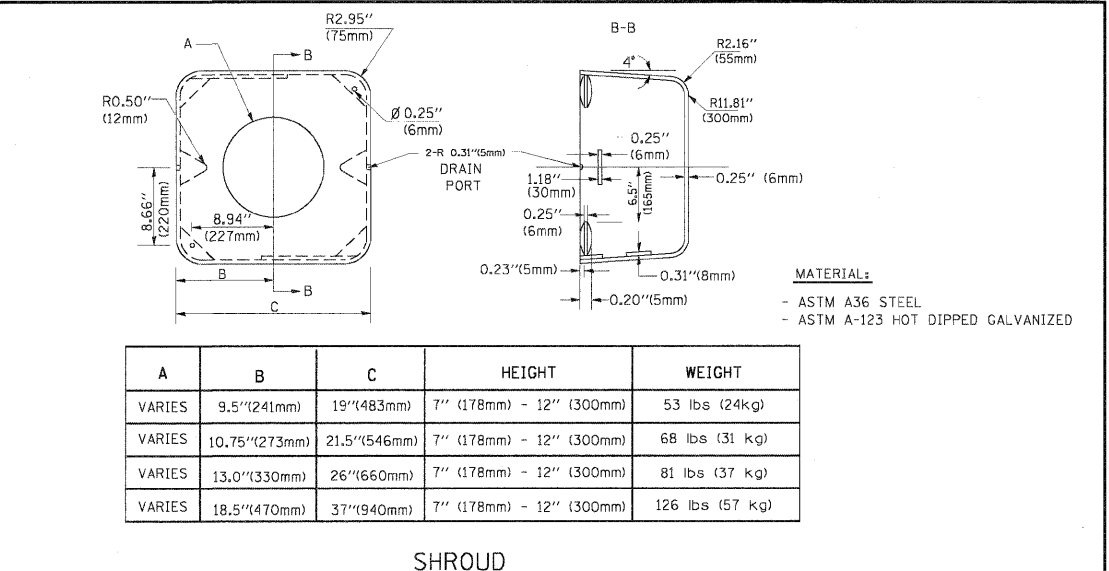
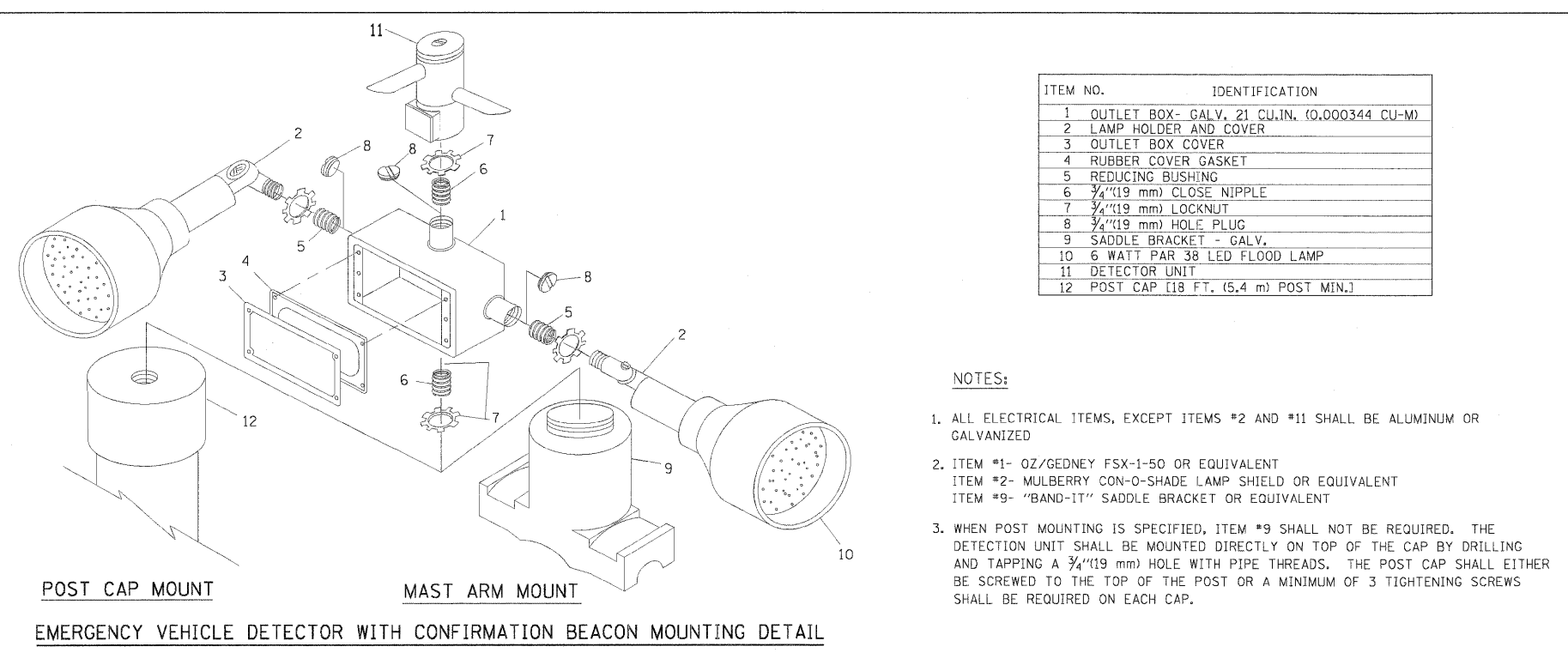
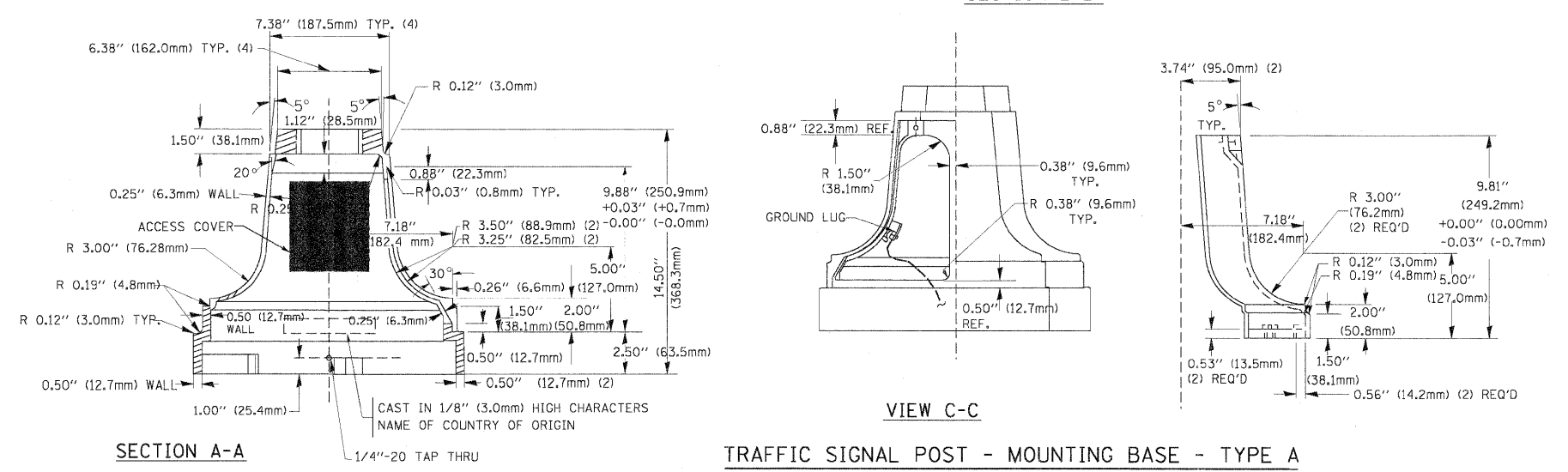
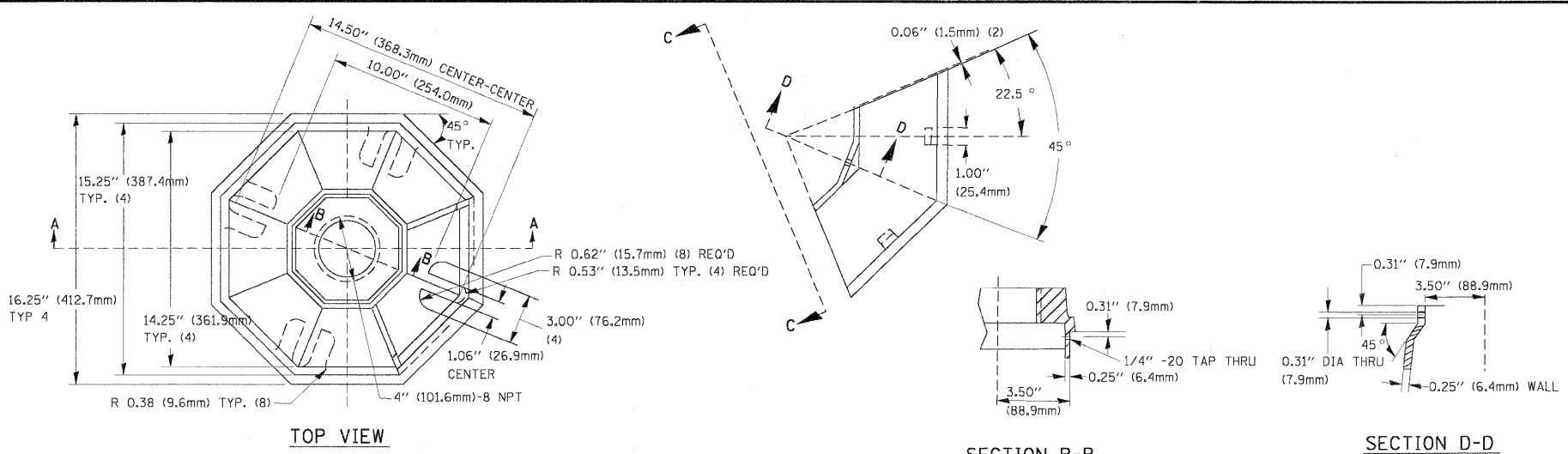
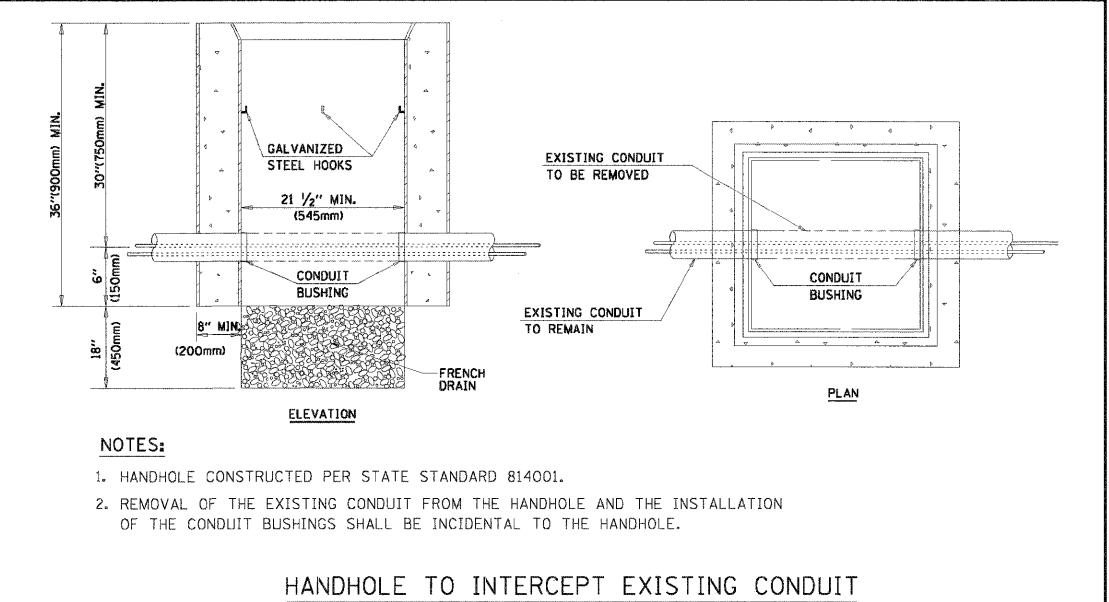
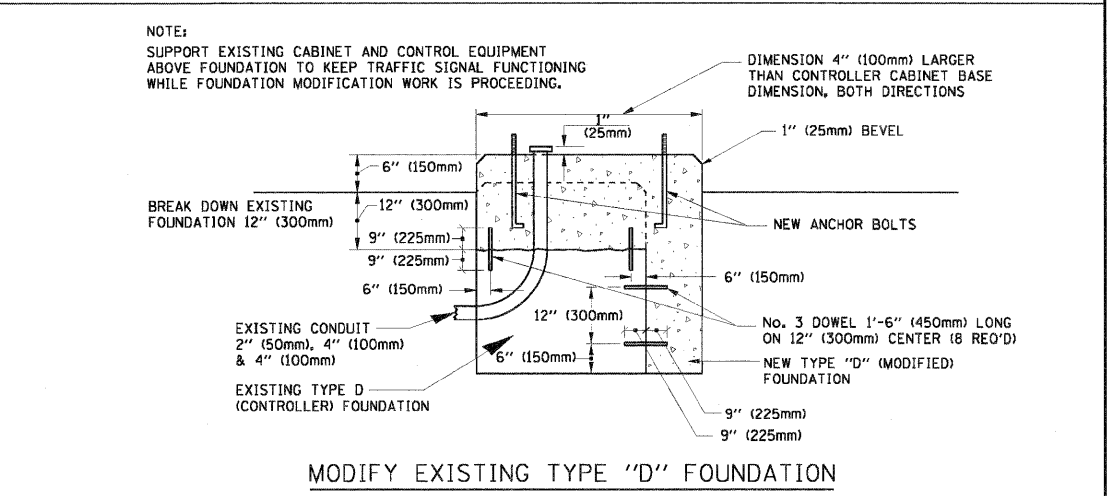
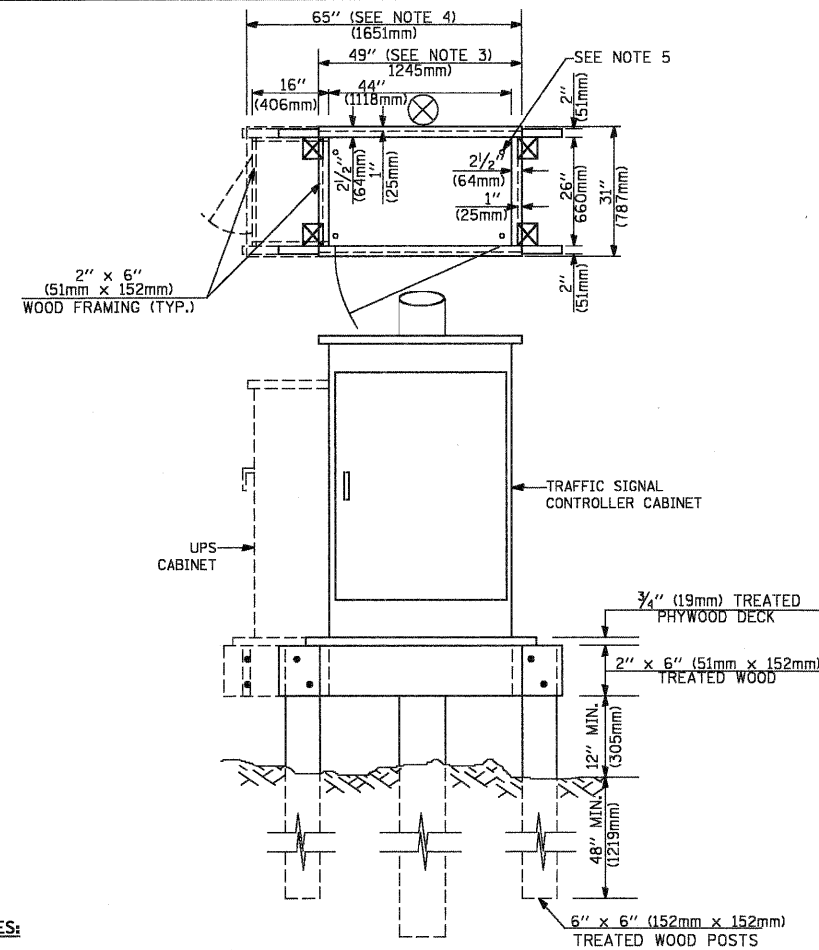
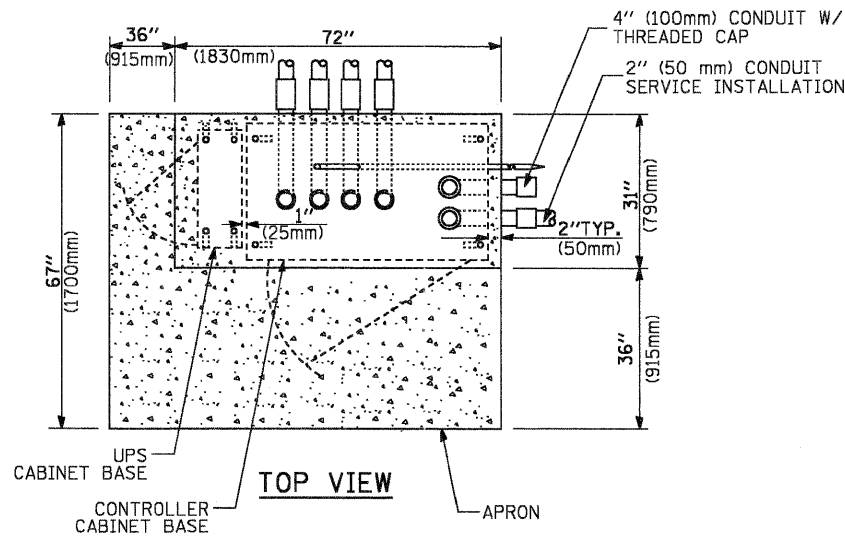
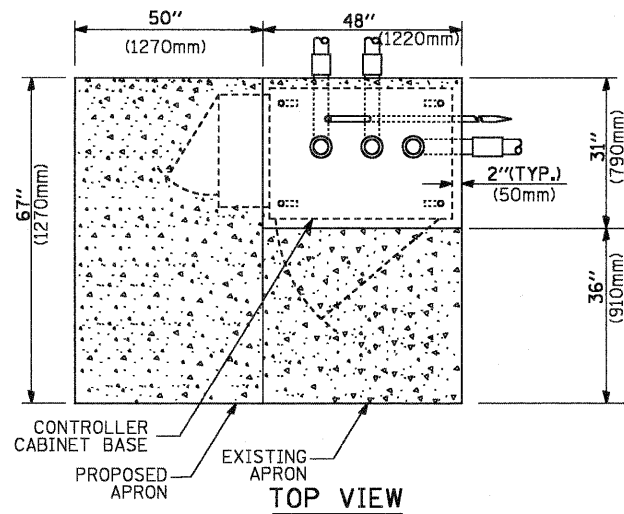


TABLE WITH 5 COLUMNS: A, B, C, HEIGHT, WEIGHT. Rows show varying dimensions and corresponding weights.

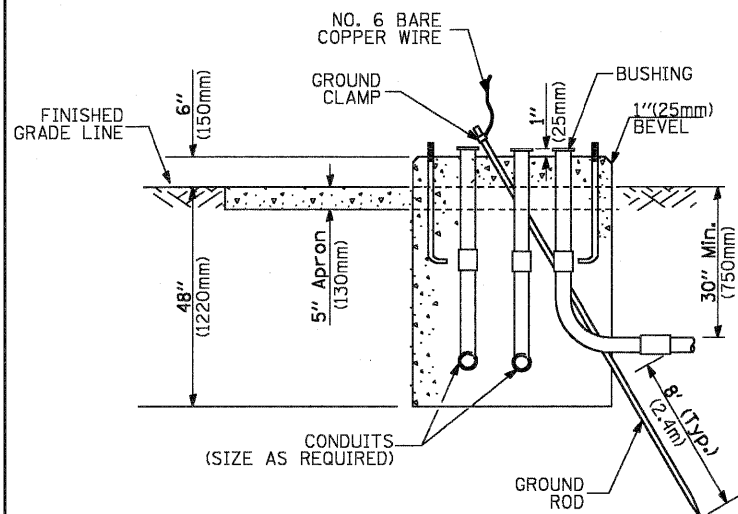




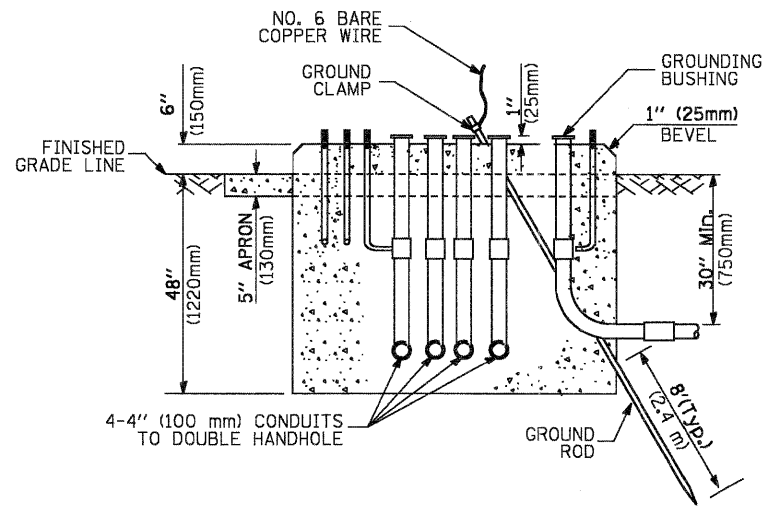
NOTES:

1. 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.
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 POSTS WITH 2 LAG SCREWS FOR EACH CONNECTION.

TEMPORARY SIGNAL CONTROLLER WOOD SUPPORT PLATFORM



TYPE D FOR GROUND MOUNTED CONTROLLER CABINET AND UPS BATTERY CABINET



TYPE C FOR GROUND MOUNTED CONTROLLER CABINET AND UPS BATTERY CABINET

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

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)

DEPTH OF FOUNDATION

MAST ARM LENGTH	FOUNDATION DEPTH	FOUNDATION DIAMETER	SPIRAL DIAMETER	QUANTITY OF REBARS	SIZE OF REBARS
Less than 30' (9.1 m)	10'-0" (3.0 m)	30" (750mm)	24" (600mm)	8	6(19)
Greater than or equal to 30' (9.1 m) and less than 40' (12.2 m)	13'-6" (4.1 m)	30" (750mm)	24" (600mm)	8	6(19)
Greater than or equal to 40' (12.2 m) and less than 50' (15.2 m)	11'-0" (3.4 m)	36" (900mm)	30" (750mm)	12	7(22)
Greater than or equal to 50' (15.2 m) and up to 55' (16.8 m)	13'-0" (4.0 m)	36" (900mm)	30" (750mm)	12	7(22)
Greater than or equal to 55' (16.8 m) and up to 56' (16.8 m)	15'-0" (4.6 m)	36" (900mm)	30" (750mm)	12	7(22)
Greater than or equal to 56' (16.8 m) and less than 65' (19.8 m)	21'-0" (6.4 m)	42" (1060mm)	36" (900mm)	16	8(25)
Greater than or equal to 65' (19.8 m) and up to 75' (22.9 m)	25'-0" (7.6 m)	42" (1060mm)	36" (900mm)	16	8(25)

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.
2. Combination mast arm assemblies 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

TRAFFIC SIGNAL LEGEND

ITEM	REMOVAL	EXISTING	PROPOSED	ITEM	REMOVAL	EXISTING	PROPOSED	ITEM	REMOVAL	EXISTING	PROPOSED
CONTROLLER CABINET				EMERGENCY VEHICLE LIGHT DETECTOR				ELECTRIC CABLE IN CONDUIT, TRACER, NO. 14 1/C, UNLESS NOTED OTHERWISE			
RAILROAD CONTROL CABINET				CONFIRMATION BEACON				COAXIAL CABLE			
COMMUNICATIONS CABINET				HANDHOLE				VENDOR CABLE FOR CAMERA			
MASTER CONTROLLER				HEAVY DUTY HANDHOLE				COPPER INTERCONNECT CABLE, NO. 18 3 PAIR TWISTED, SHIELDED			
MASTER MASTER CONTROLLER				DOUBLE HANDHOLE				FIBER OPTIC CABLE NO. 62.5/125, MM12F			
UNINTERRUPTIBLE POWER SUPPLY				JUNCTION BOX				FIBER OPTIC CABLE NO. 62.5/125, MM12F SM12F			
SERVICE INSTALLATION, (P) POLE OR (G) GROUND MOUNT				GALVANIZED STEEL CONDUIT IN TRENCH (T) OR PUSHED (P)				FIBER OPTIC CABLE NO. 62.5/125, MM12F (NUMBER OF FIBERS & TYPE TO BE NOTED ON PLANS)			
TELEPHONE CONNECTION (P) POLE OR (G) GROUND MOUNT				TEMPORARY SPAN WIRE, TETHER WIRE, AND CABLE				GROUND ROD AT (C) CONTROLLER, (H) HANDHOLE, (P) POST, (M) MAST ARM, OR (S) SERVICE			
STEEL MAST ARM ASSEMBLY AND POLE				COMMON TRENCH			CT	CONTROLLER CABINET AND FOUNDATION TO BE REMOVED			
ALUMINUM MAST ARM ASSEMBLY AND POLE				COILABLE NONMETALLIC CONDUIT (EMPTY)			CNC	STEEL MAST ARM POLE AND FOUNDATION TO BE REMOVED			
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH LUMINAIRE				SYSTEM ITEM		S	S	ALUMINUM MAST ARM POLE AND FOUNDATION TO BE REMOVED			
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH PTZ CAMERA				INTERSECTION ITEM		I	IP	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH LUMINAIRE AND FOUNDATION TO BE REMOVED			
SIGNAL POST				REMOVE ITEM	R			SIGNAL POST AND FOUNDATION TO BE REMOVED			
TEMPORARY WOOD POLE (CLASS 5 OR BETTER) 45 FOOT (13.7m) MINIMUM				RELOCATE ITEM	RL			INTERSECTION & SAMPLING (SYSTEM) DETECTOR			
GUY WIRE				ABANDON ITEM	A			SAMPLING (SYSTEM) DETECTOR			
SIGNAL HEAD				12" (300mm) TRAFFIC SIGNAL SECTION				EXISTING INTERSECTION LOOP DETECTOR			
SIGNAL HEAD CONSTRUCTION STAGES (NUMBERS INDICATE THE CONSTRUCTION STAGE)				12" (300mm) RED WITH 8" (200mm) YELLOW AND GREEN TRAFFIC SIGNAL FACE				PROPOSED INTERSECTION AND SAMPLING (SYSTEM) DETECTOR			
SIGNAL HEAD WITH BACKPLATE				SIGNAL FACE				EXISTING PREFORMED INTERSECTION LOOP DETECTOR			
SIGNAL HEAD OPTICALLY PROGRAMMED				SIGNAL FACE WITH BACKPLATE. "P" INDICATES PROGRAMMED HEAD				PROPOSED INTERSECTION AND SAMPLING (SYSTEM) DETECTOR			
FLASHER INSTALLATION (S DENOTES SOLAR POWER)				12" (300mm) PEDESTRIAN SIGNAL HEAD WALK/DON'T WALK SYMBOL				PREFORMED INTERSECTION AND SAMPLING (SYSTEM) DETECTOR			
PEDESTRIAN SIGNAL HEAD				12" (300mm) PEDESTRIAN SIGNAL HEAD INTERNATIONAL SYMBOL, OUTLINED				PREFORMED SAMPLING (SYSTEM) DETECTOR			
PEDESTRIAN PUSHBUTTON DETECTOR				12" (300mm) PEDESTRIAN SIGNAL HEAD INTERNATIONAL SYMBOL, SOLID				RAILROAD SYMBOLS			
ACCESSIBLE PEDESTRIAN PUSHBUTTON DETECTOR				PEDESTRIAN SIGNAL HEAD, INTERNATIONAL SYMBOL, WITH COUNTDOWN TIMER				EXISTING		PROPOSED	
ILLUMINATED SIGN "NO LEFT TURN"				RADIO INTERCONNECT				RAILROAD CONTROL CABINET			
ILLUMINATED SIGN "NO RIGHT TURN"				RADIO REPEATER				RAILROAD CANTILEVER MAST ARM			
DETECTOR LOOP, TYPE I				DENOTES NUMBER OF CONDUCTORS, ELECTRIC CABLE NO. 14, UNLESS NOTED OTHERWISE, ALL DETECTOR LOOP CABLE TO BE SHIELDED				FLASHING SIGNAL			
PREFORMED DETECTOR LOOP				GROUND CABLE IN CONDUIT NO. 6 SOLID COPPER (GREEN)				CROSSING GATE			
MICROWAVE VEHICLE SENSOR								CROSSBUCK			
VIDEO DETECTION CAMERA											
VIDEO DETECTION ZONE											
PAN, TILT, ZOOM CAMERA											
WIRELESS DETECTOR SENSOR											
WIRELESS ACCESS POINT											



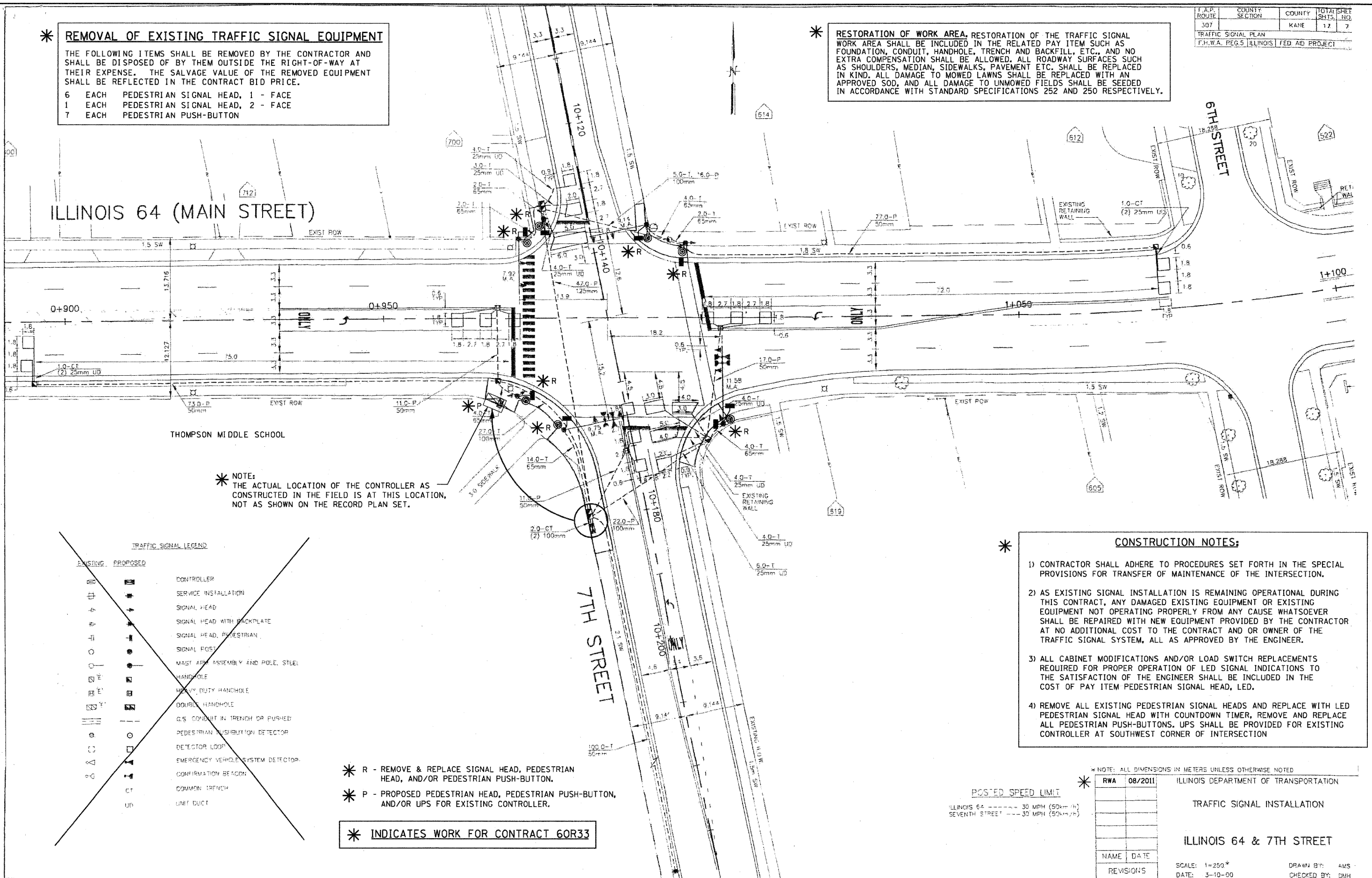
F.A.P. ROUTE	COUNTY SECTION	COUNTY	TOTAL SHEET SITS. NO.	SHEET NO.
307		KANE	17	7
TRAFFIC SIGNAL PLAN				
F.H.W.A. PEG.5 ILLINOIS FED AID PROJECT				

*** REMOVAL OF EXISTING TRAFFIC SIGNAL EQUIPMENT**

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

6 EACH PEDESTRIAN SIGNAL HEAD, 1 - FACE
1 EACH PEDESTRIAN SIGNAL HEAD, 2 - FACE
7 EACH PEDESTRIAN PUSH-BUTTON

*** RESTORATION OF WORK AREA, RESTORATION OF THE TRAFFIC SIGNAL WORK AREA SHALL BE INCLUDED IN THE RELATED PAY ITEM SUCH AS FOUNDATION, CONDUIT, HANDHOLE, TRENCH AND BACKFILL, ETC., AND NO EXTRA COMPENSATION SHALL BE ALLOWED. ALL ROADWAY SURFACES SUCH AS SHOULDERS, MEDIAN, SIDEWALKS, PAVEMENT ETC. SHALL BE REPLACED IN KIND. ALL DAMAGE TO MOWED LAWNS SHALL BE REPLACED WITH AN APPROVED SOD, AND ALL DAMAGE TO UNMOWED FIELDS SHALL BE SEEDED IN ACCORDANCE WITH STANDARD SPECIFICATIONS 252 AND 250 RESPECTIVELY.**



*** NOTE:**
THE ACTUAL LOCATION OF THE CONTROLLER AS CONSTRUCTED IN THE FIELD IS AT THIS LOCATION, NOT AS SHOWN ON THE RECORD PLAN SET.

*** CONSTRUCTION NOTES:**

- 1) CONTRACTOR SHALL ADHERE TO PROCEDURES SET FORTH IN THE SPECIAL PROVISIONS FOR TRANSFER OF MAINTENANCE OF THE INTERSECTION.
- 2) AS EXISTING SIGNAL INSTALLATION IS REMAINING OPERATIONAL DURING THIS CONTRACT, ANY DAMAGED EXISTING EQUIPMENT OR EXISTING EQUIPMENT NOT OPERATING PROPERLY FROM ANY CAUSE WHATSOEVER SHALL BE REPAIRED WITH NEW EQUIPMENT PROVIDED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE CONTRACT AND OR OWNER OF THE TRAFFIC SIGNAL SYSTEM, ALL AS APPROVED BY THE ENGINEER.
- 3) ALL CABINET MODIFICATIONS AND/OR LOAD SWITCH REPLACEMENTS REQUIRED FOR PROPER OPERATION OF LED SIGNAL INDICATIONS TO THE SATISFACTION OF THE ENGINEER SHALL BE INCLUDED IN THE COST OF PAY ITEM PEDESTRIAN SIGNAL HEAD, LED.
- 4) REMOVE ALL EXISTING PEDESTRIAN SIGNAL HEADS AND REPLACE WITH LED PEDESTRIAN SIGNAL HEAD WITH COUNTDOWN TIMER, REMOVE AND REPLACE ALL PEDESTRIAN PUSH-BUTTONS. UPS SHALL BE PROVIDED FOR EXISTING CONTROLLER AT SOUTHWEST CORNER OF INTERSECTION

TRAFFIC SIGNAL LEGEND

EXISTING	PROPOSED	DESCRIPTION
[Symbol]	[Symbol]	CONTROLLER
[Symbol]	[Symbol]	SERVICE INSTALLATION
[Symbol]	[Symbol]	SIGNAL HEAD
[Symbol]	[Symbol]	SIGNAL HEAD WITH BACKPLATE
[Symbol]	[Symbol]	SIGNAL HEAD, PEDESTRIAN
[Symbol]	[Symbol]	SIGNAL POST
[Symbol]	[Symbol]	MAST ARM ASSEMBLY AND POLE, STEEL
[Symbol]	[Symbol]	HANDHOLE
[Symbol]	[Symbol]	HEAVY DUTY HANDHOLE
[Symbol]	[Symbol]	DOUBLE HANDHOLE
[Symbol]	[Symbol]	G.S. CONDUIT IN TRENCH OR PUSHED
[Symbol]	[Symbol]	PEDESTRIAN DISTRIBUTION DETECTOR
[Symbol]	[Symbol]	DETECTOR LOOP
[Symbol]	[Symbol]	EMERGENCY VEHICLE SYSTEM DETECTOR
[Symbol]	[Symbol]	CONFIRMATION BEACON
[Symbol]	[Symbol]	COMMON TRENCH
[Symbol]	[Symbol]	UNIT DUCT

*** R - REMOVE & REPLACE SIGNAL HEAD, PEDESTRIAN HEAD, AND/OR PEDESTRIAN PUSH-BUTTON.**

*** P - PROPOSED PEDESTRIAN HEAD, PEDESTRIAN PUSH-BUTTON, AND/OR UPS FOR EXISTING CONTROLLER.**

*** INDICATES WORK FOR CONTRACT 60R33**

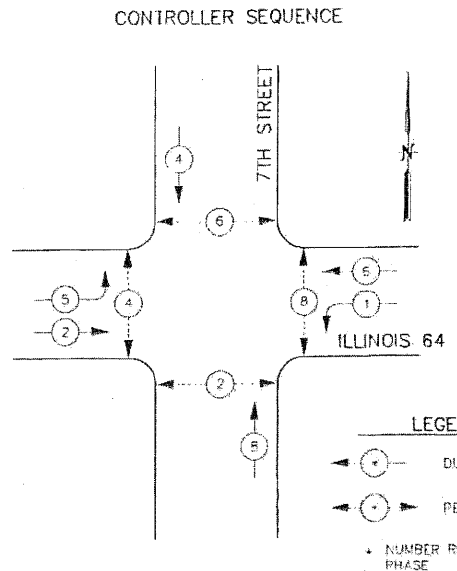
* NOTE: ALL DIMENSIONS IN METERS UNLESS OTHERWISE NOTED

RWA	08/2011	ILLINOIS DEPARTMENT OF TRANSPORTATION
TRAFFIC SIGNAL INSTALLATION		
ILLINOIS 64 & 7TH STREET		
NAME	DATE	SCALE: 1=250'
REVISIONS		DATE: 3-10-00
		DRAWN BY: AMS
		CHECKED BY: DMH

POSTED SPEED LIMIT

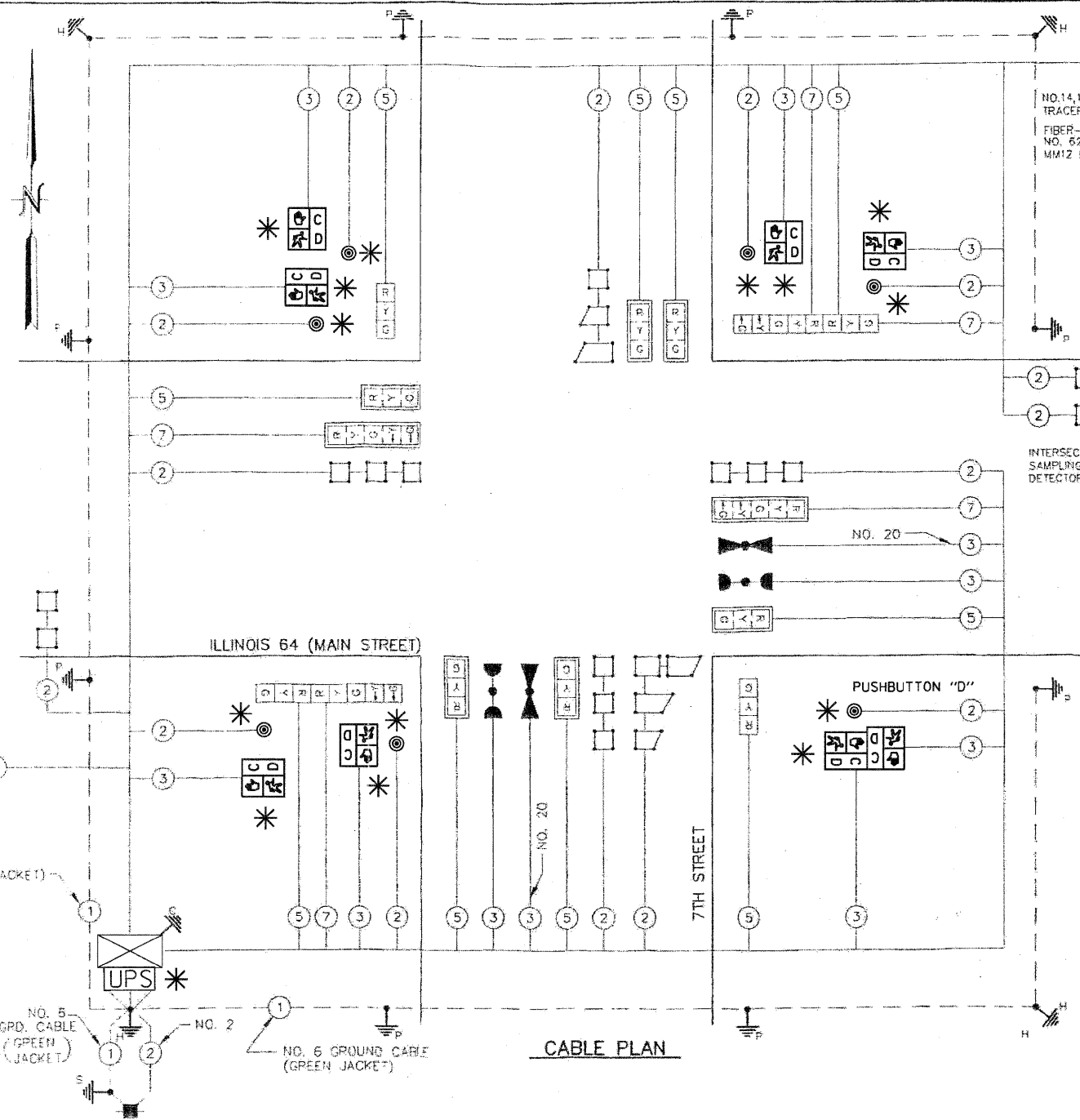
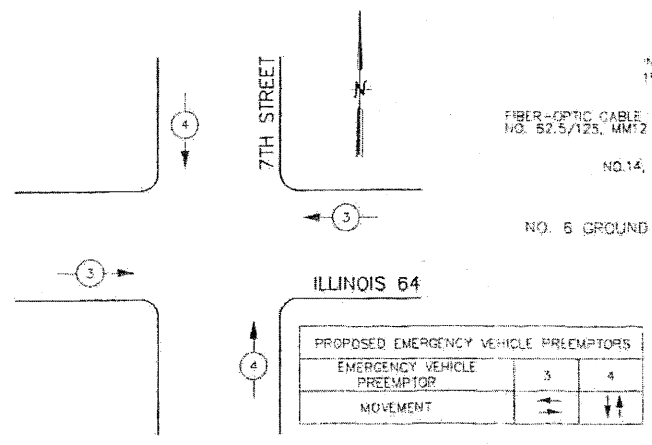
ILLINOIS 64 ----- 30 MPH (50k+14)
SEVENTH STREET ----- 30 MPH (50k+16)

F.A.P. ROUTE	COUNTY SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
307	STATE SECTION	KANE	17	8
TRAFFIC SIGNALS				
F.H.W.A. REG.5 ILLINOIS PROJECT STPM-				



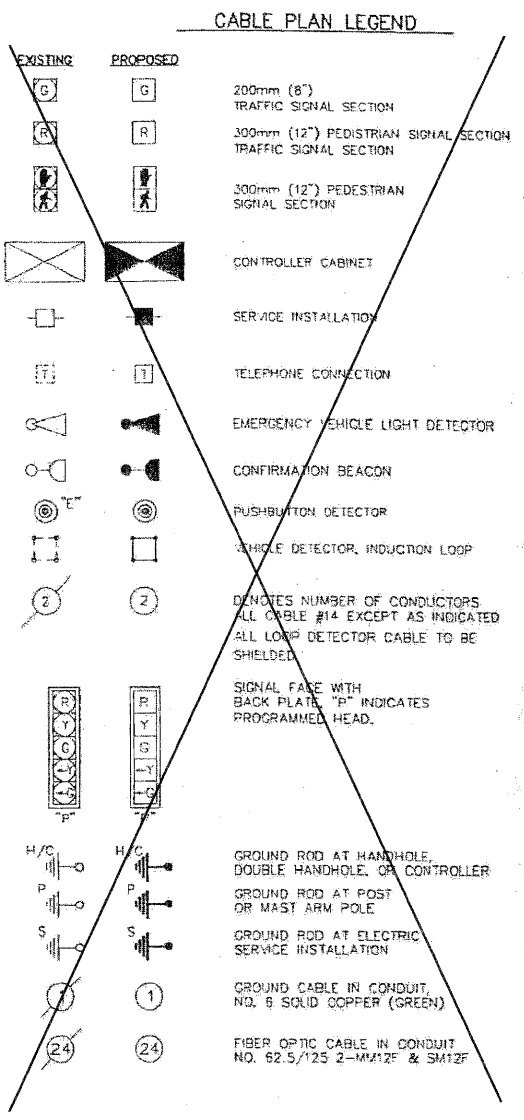
PHASE DESIGNATION DIAGRAM

EMERGENCY VEHICLE PREEMPTION SEQUENCE



CABLE PLAN

NOTE:
 PUSHBUTTON "D" SHALL PLACE A CALL IN PHASES 2 AND 8.



* SCHEDULE OF QUANTITIES

ITEM	UNIT	QUANTITY
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	6
PEDESTRIAN SIGNAL HEAD, LED, 2-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	1
PEDESTRIAN PUSH-BUTTON	EACH	7
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
UNINTERRUPTIBLE POWER SUPPLY SPECIAL	EACH	1

* INDICATES WORK FOR CONTRACT 60R33

RWA	08/2011	ILLINOIS DEPARTMENT OF TRANSPORTATION
CABLE PLAN		
PHASE DESIGNATION DIAGRAM		
SCHEDULE OF QUANTITIES		
ILLINOIS 64 & 7TH STREET		
NAME	DATE	SCALE: NONE
REVISIONS		DATE: 3-10-00
		DRAWN BY: AMS
		CHECKED BY: DMH

* RESTORATION OF WORK AREA: RESTORATION OF THE TRAFFIC SIGNAL WORK AREA SHALL BE INCLUDED IN THE RELATED PAY ITEM SUCH AS FOUNDATION, CONDUIT, HANDHOLE, TRENCH AND BACKFILL, ETC., AND NO EXTRA COMPENSATION SHALL BE ALLOWED. ALL ROADWAY SURFACES SUCH AS SHOULDERS, MEDIAN, SIDEWALKS, PAVEMENT ETC. SHALL BE REPLACED IN KIND. ALL DAMAGE TO MOWED LAWNS SHALL BE REPLACED WITH AN APPROVED SOD, AND ALL DAMAGE TO UNMOWED FIELDS SHALL BE SEEDD IN ACCORDANCE WITH STANDARD SPECIFICATIONS 252 AND 250 RESPECTIVELY.

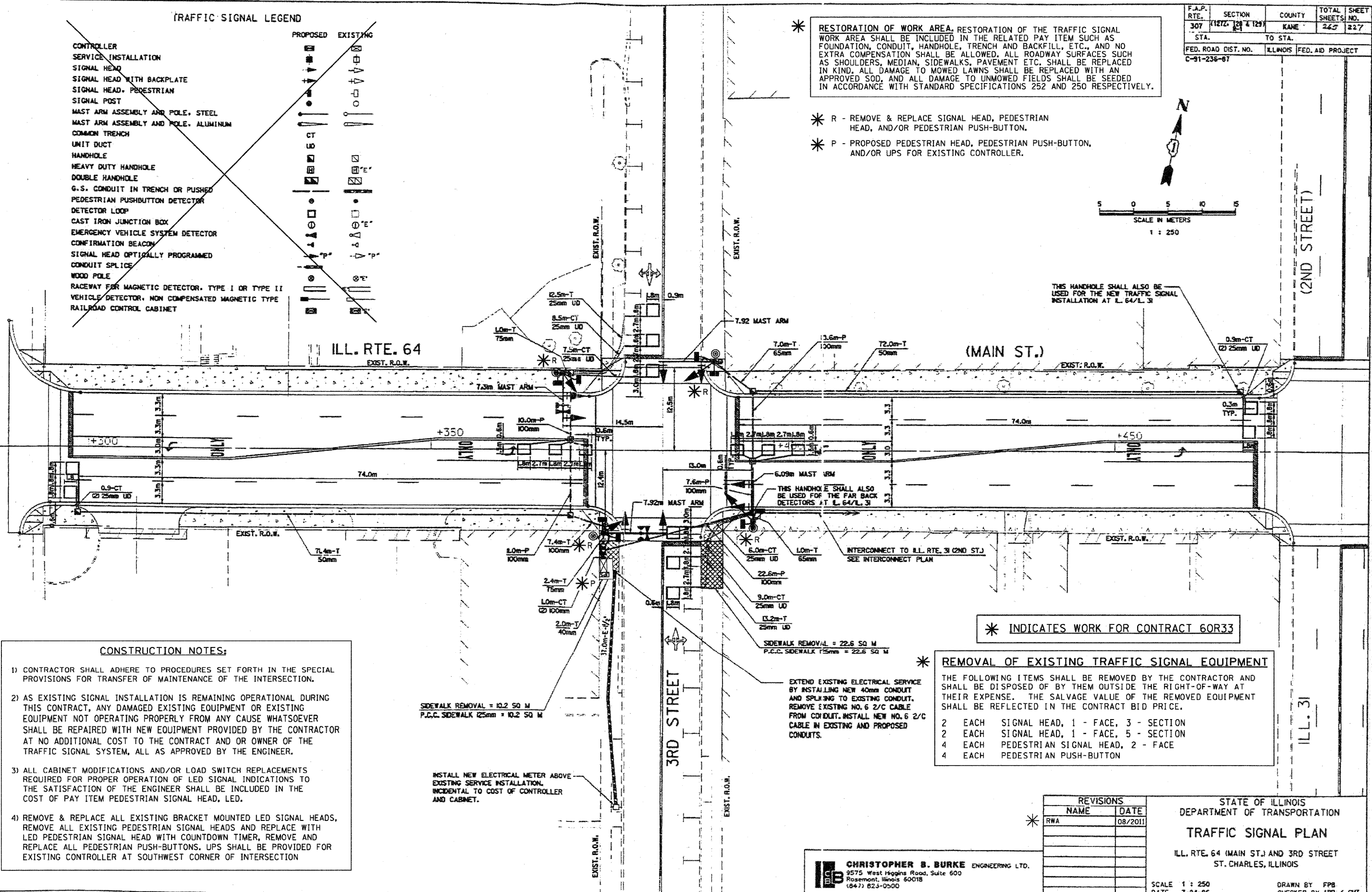
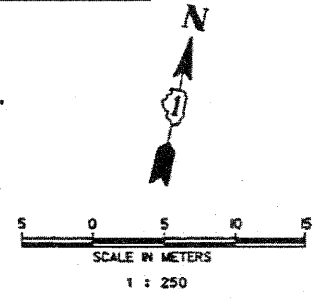
TRAFFIC SIGNAL LEGEND

	PROPOSED	EXISTING
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		
COMMON TRENCH		
UNIT DUCT		
HANDHOLE		
HEAVY DUTY HANDHOLE		
DOUBLE HANDHOLE		
G.S. CONDUIT IN TRENCH OR PUSHED		
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		

* RESTORATION OF WORK AREA, RESTORATION OF THE TRAFFIC SIGNAL WORK AREA SHALL BE INCLUDED IN THE RELATED PAY ITEM SUCH AS FOUNDATION, CONDUIT, HANDHOLE, TRENCH AND BACKFILL, ETC., AND NO EXTRA COMPENSATION SHALL BE ALLOWED. ALL ROADWAY SURFACES SUCH AS SHOULDERS, MEDIAN, SIDEWALKS, PAVEMENT ETC. SHALL BE REPLACED IN KIND. ALL DAMAGE TO MOWED LAWNS SHALL BE REPLACED WITH AN APPROVED SOD, AND ALL DAMAGE TO UNMOWED FIELDS SHALL BE SEEDD IN ACCORDANCE WITH STANDARD SPECIFICATIONS 252 AND 250 RESPECTIVELY.

- * R - REMOVE & REPLACE SIGNAL HEAD, PEDESTRIAN HEAD, AND/OR PEDESTRIAN PUSH-BUTTON.
- * P - PROPOSED PEDESTRIAN HEAD, PEDESTRIAN PUSH-BUTTON, AND/OR UPS FOR EXISTING CONTROLLER.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
307	11272	KANE	245	227
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT	C-91-236-87	



- CONSTRUCTION NOTES:**
- 1) CONTRACTOR SHALL ADHERE TO PROCEDURES SET FORTH IN THE SPECIAL PROVISIONS FOR TRANSFER OF MAINTENANCE OF THE INTERSECTION.
 - 2) AS EXISTING SIGNAL INSTALLATION IS REMAINING OPERATIONAL DURING THIS CONTRACT, ANY DAMAGED EXISTING EQUIPMENT OR EXISTING EQUIPMENT NOT OPERATING PROPERLY FROM ANY CAUSE WHATSOEVER SHALL BE REPAIRED WITH NEW EQUIPMENT PROVIDED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE CONTRACT AND OR OWNER OF THE TRAFFIC SIGNAL SYSTEM, ALL AS APPROVED BY THE ENGINEER.
 - 3) ALL CABINET MODIFICATIONS AND/OR LOAD SWITCH REPLACEMENTS REQUIRED FOR PROPER OPERATION OF LED SIGNAL INDICATIONS TO THE SATISFACTION OF THE ENGINEER SHALL BE INCLUDED IN THE COST OF PAY ITEM PEDESTRIAN SIGNAL HEAD, LED.
 - 4) REMOVE & REPLACE ALL EXISTING BRACKET MOUNTED LED SIGNAL HEADS, REMOVE ALL EXISTING PEDESTRIAN SIGNAL HEADS AND REPLACE WITH LED PEDESTRIAN SIGNAL HEAD WITH COUNTDOWN TIMER, REMOVE AND REPLACE ALL PEDESTRIAN PUSH-BUTTONS. UPS SHALL BE PROVIDED FOR EXISTING CONTROLLER AT SOUTHWEST CORNER OF INTERSECTION

- * REMOVAL OF EXISTING TRAFFIC SIGNAL EQUIPMENT**
- THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR AND SHALL BE DISPOSED OF BY THEM OUTSIDE THE RIGHT-OF-WAY AT THEIR EXPENSE. THE SALVAGE VALUE OF THE REMOVED EQUIPMENT SHALL BE REFLECTED IN THE CONTRACT BID PRICE.
- 2 EACH SIGNAL HEAD, 1 - FACE, 3 - SECTION
 - 2 EACH SIGNAL HEAD, 1 - FACE, 5 - SECTION
 - 4 EACH PEDESTRIAN SIGNAL HEAD, 2 - FACE
 - 4 EACH PEDESTRIAN PUSH-BUTTON

REVISIONS

NAME	DATE
RWA	08/2011

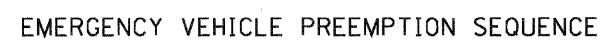
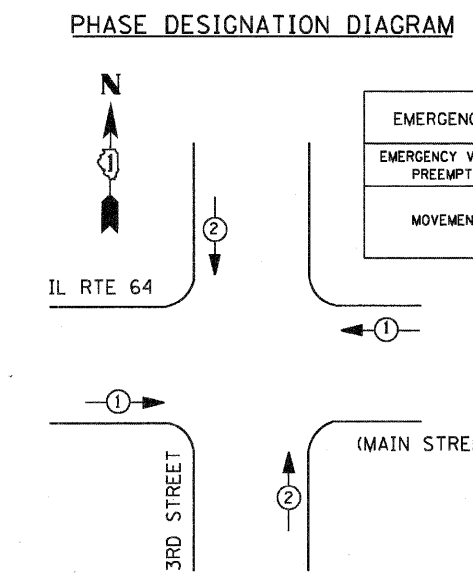
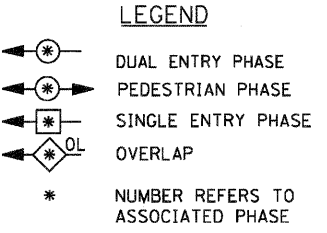
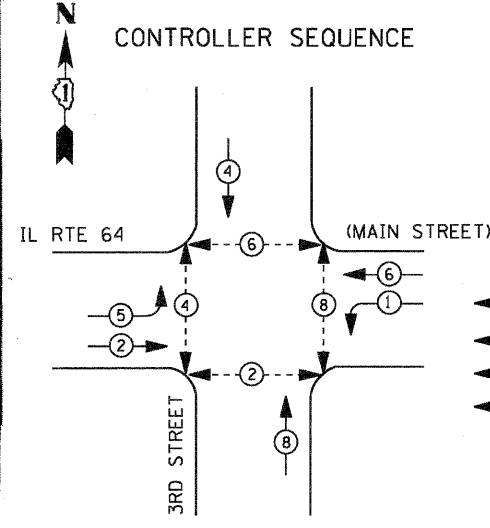
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION
TRAFFIC SIGNAL PLAN
 ILL. RTE. 64 (MAIN ST.) AND 3RD STREET
 ST. CHARLES, ILLINOIS

SCALE 1 : 250
 DATE 7-24-96

DRAWN BY FPB
 CHECKED BY ABR / GMZ

CHRISTOPHER S. BURKE ENGINEERING LTD.
 9575 West Higgins Road, Suite 600
 Rosemont, Illinois 60018
 (647) 823-0500

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS
307	1211/1212 & 1213	KANE	265
STA.	TO STA.		
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT		
C-91-236-87			

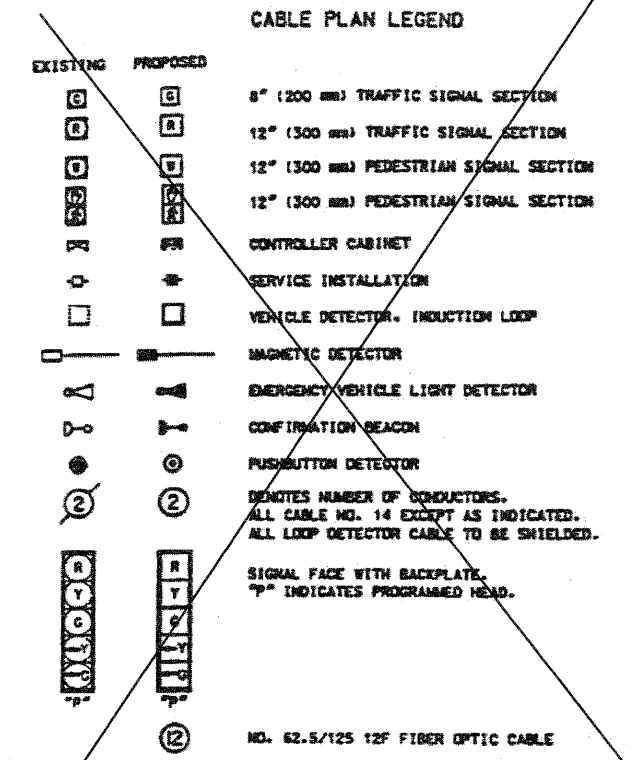
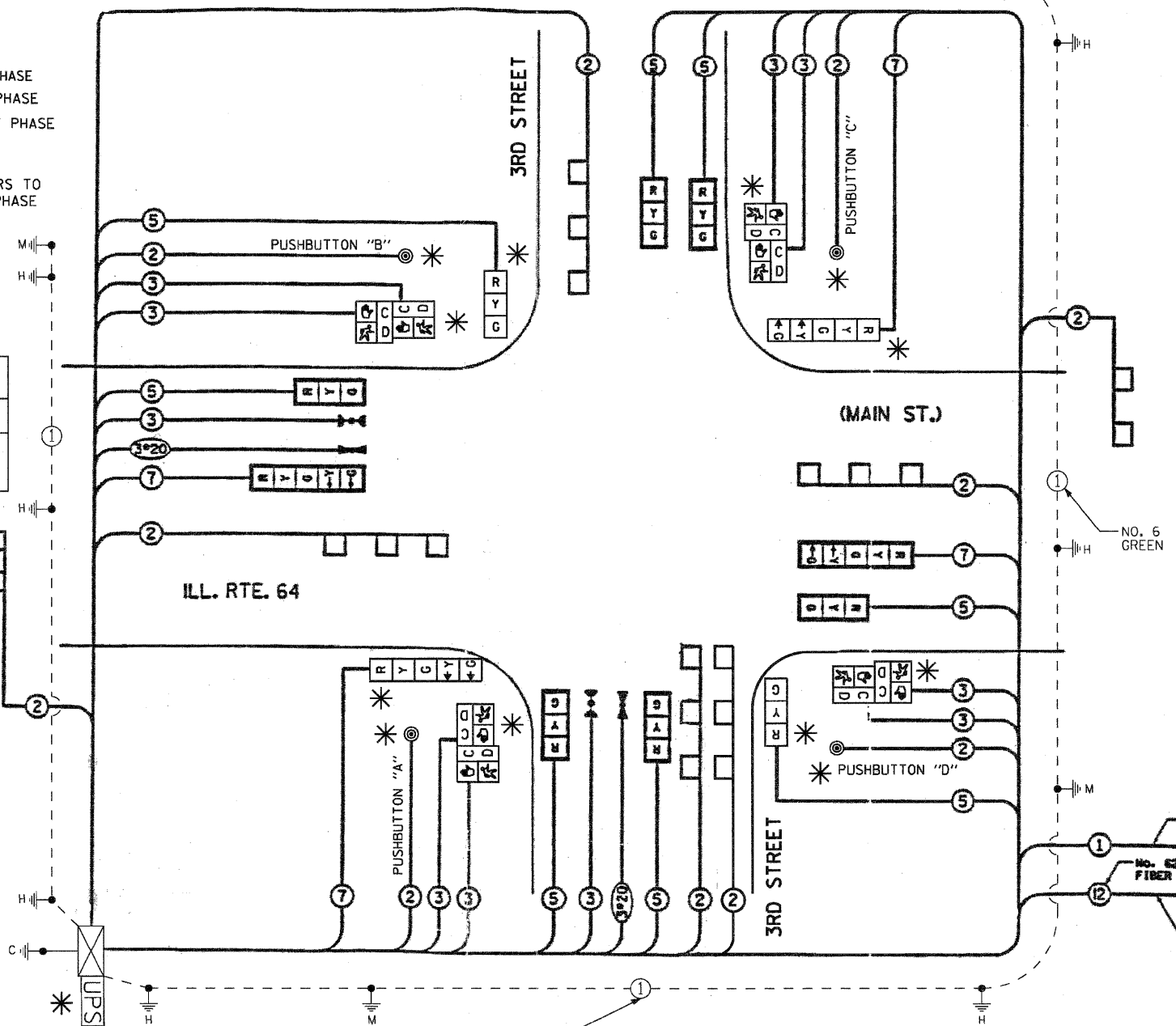


* RESTORATION OF WORK AREA. RESTORATION OF THE TRAFFIC SIGNAL WORK AREA SHALL BE INCLUDED IN THE RELATED PAY ITEM SUCH AS FOUNDATION, CONDUIT, HANDHOLE, TRENCH AND BACKFILL, ETC., AND NO EXTRA COMPENSATION SHALL BE ALLOWED. ALL ROADWAY SURFACES SUCH AS SHOULDERS, MEDIAN, SIDEWALKS, PAVEMENT ETC. SHALL BE REPLACED IN KIND. ALL DAMAGE TO MOWED LAWNS SHALL BE REPLACED WITH AN APPROVED SOD, AND ALL DAMAGE TO UNMOWED FIELDS SHALL BE SEEDD IN ACCORDANCE WITH STANDARD SPECIFICATIONS 252 AND 250 RESPECTIVELY.

* SCHEDULE OF QUANTITIES

ITEM	UNIT	QUANTITY
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	2
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	2
PEDESTRIAN SIGNAL HEAD, LED, 2-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	4
PEDESTRIAN PUSH-BUTTON	EACH	4
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
UNINTERRUPTIBLE POWER SUPPLY SPECIAL	EACH	1

NOTE:
 PUSHBUTTON "A" SHALL PLACE A CALL IN PHASES 2 AND 4.
 PUSHBUTTON "B" SHALL PLACE A CALL IN PHASES 4 AND 6.
 PUSHBUTTON "C" SHALL PLACE A CALL IN PHASES 6 AND 8.
 PUSHBUTTON "D" SHALL PLACE A CALL IN PHASES 2 AND 8.



* INDICATES WORK FOR CONTRACT 60R33

REVISIONS	
NAME	DATE
RWA	08/2011

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION
SCHEDULE OF QUANTITIES AND CABLE PLAN
 ILL. RTE. 64 (MAIN ST.) AND 3RD STREET
 ST. CHARLES, ILLINOIS
 SCALE N.T.S. DATE 7-24-96
 DRAWN BY FPS / FCP
 CHECKED BY ASB / GMZ

CHRISTOPHER B. BURKE ENGINEERING LTD.
 9575 West Higgins Road, Suite 800
 Rosemont, Illinois 60018
 (847) 823-0500

TRAFFIC SIGNAL LEGEND

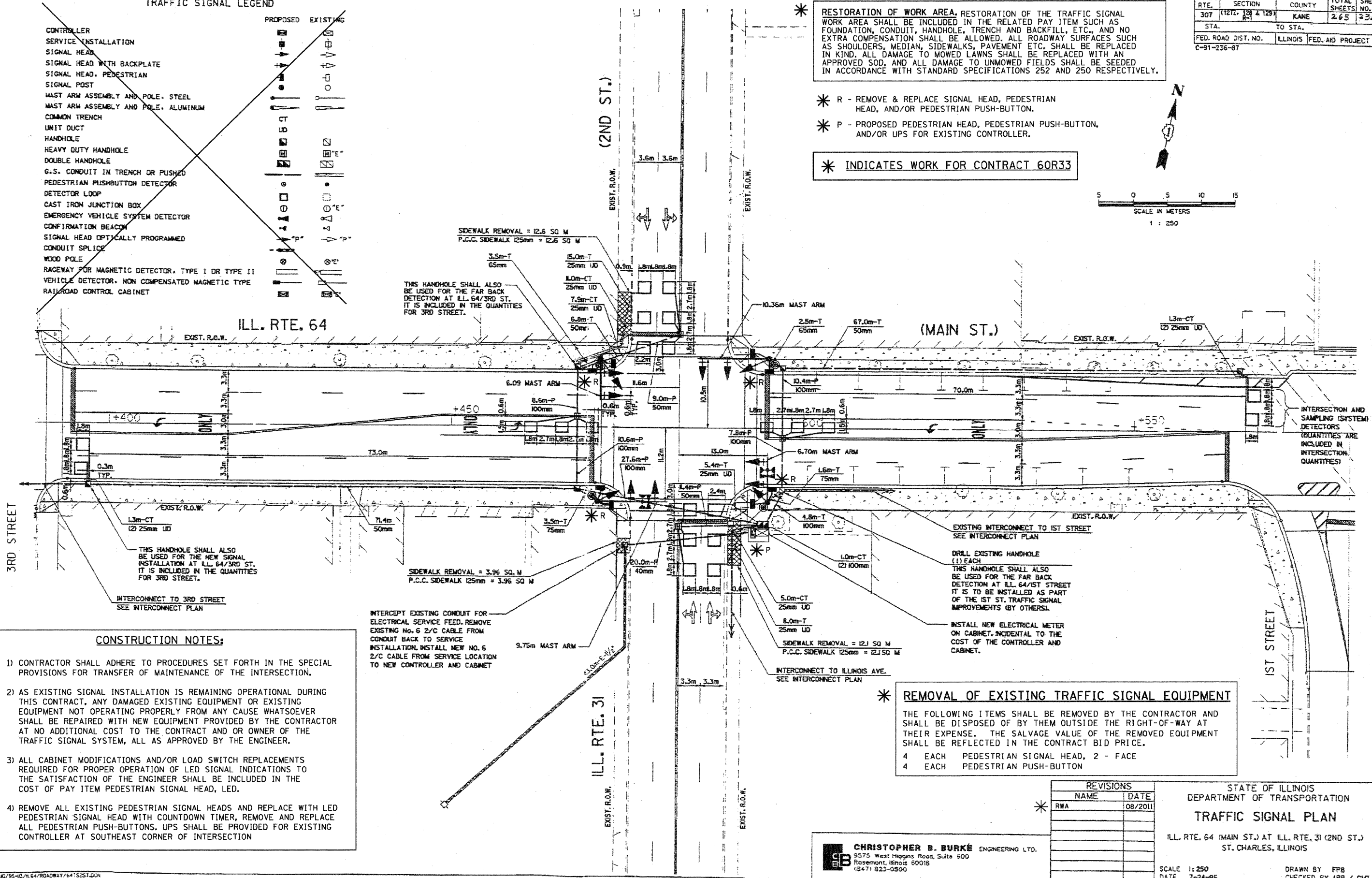
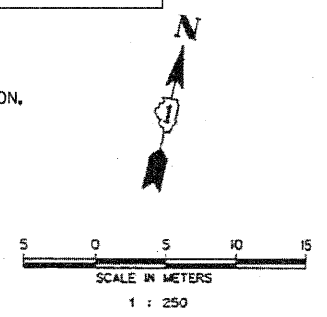
	PROPOSED	EXISTING
CONTROLLER	[Symbol]	[Symbol]
SERVICE INSTALLATION	[Symbol]	[Symbol]
SIGNAL HEAD	[Symbol]	[Symbol]
SIGNAL HEAD WITH BACKPLATE	[Symbol]	[Symbol]
SIGNAL HEAD, PEDESTRIAN	[Symbol]	[Symbol]
SIGNAL POST	[Symbol]	[Symbol]
MAST ARM ASSEMBLY AND POLE, STEEL	[Symbol]	[Symbol]
MAST ARM ASSEMBLY AND POLE, ALUMINUM	[Symbol]	[Symbol]
COMMON TRENCH	[Symbol]	[Symbol]
UNIT DUCT	[Symbol]	[Symbol]
HANDHOLE	[Symbol]	[Symbol]
HEAVY DUTY HANDHOLE	[Symbol]	[Symbol]
DOUBLE HANDHOLE	[Symbol]	[Symbol]
G.S. CONDUIT IN TRENCH OR PUSHED	[Symbol]	[Symbol]
PEDESTRIAN PUSHBUTTON DETECTOR	[Symbol]	[Symbol]
DETECTOR LOOP	[Symbol]	[Symbol]
CAST IRON JUNCTION BOX	[Symbol]	[Symbol]
EMERGENCY VEHICLE SYSTEM DETECTOR	[Symbol]	[Symbol]
CONFIRMATION BEACON	[Symbol]	[Symbol]
SIGNAL HEAD OPTICALLY PROGRAMMED	[Symbol]	[Symbol]
CONDUIT SPLICE	[Symbol]	[Symbol]
WOOD POLE	[Symbol]	[Symbol]
RACEWAY FOR MAGNETIC DETECTOR, TYPE I OR TYPE II	[Symbol]	[Symbol]
VEHICLE DETECTOR, NON COMPENSATED MAGNETIC TYPE	[Symbol]	[Symbol]
RAILROAD CONTROL CABINET	[Symbol]	[Symbol]

* RESTORATION OF WORK AREA. RESTORATION OF THE TRAFFIC SIGNAL WORK AREA SHALL BE INCLUDED IN THE RELATED PAY ITEM SUCH AS FOUNDATION, CONDUIT, HANDHOLE, TRENCH AND BACKFILL, ETC., AND NO EXTRA COMPENSATION SHALL BE ALLOWED. ALL ROADWAY SURFACES SUCH AS SHOULDERS, MEDIAN, SIDEWALKS, PAVEMENT ETC. SHALL BE REPLACED IN KIND. ALL DAMAGE TO MOWED LAWNS SHALL BE REPLACED WITH AN APPROVED SOD, AND ALL DAMAGE TO UNMOWED FIELDS SHALL BE SEED IN ACCORDANCE WITH STANDARD SPECIFICATIONS 252 AND 250 RESPECTIVELY.

- * R - REMOVE & REPLACE SIGNAL HEAD, PEDESTRIAN HEAD, AND/OR PEDESTRIAN PUSH-BUTTON.
- * P - PROPOSED PEDESTRIAN HEAD, PEDESTRIAN PUSH-BUTTON, AND/OR UPS FOR EXISTING CONTROLLER.

* INDICATES WORK FOR CONTRACT 60R33

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
307	(127-128 & 129)	KANE	265	232
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
C-91-236-87				



CONSTRUCTION NOTES:

- 1) CONTRACTOR SHALL ADHERE TO PROCEDURES SET FORTH IN THE SPECIAL PROVISIONS FOR TRANSFER OF MAINTENANCE OF THE INTERSECTION.
- 2) AS EXISTING SIGNAL INSTALLATION IS REMAINING OPERATIONAL DURING THIS CONTRACT, ANY DAMAGED EXISTING EQUIPMENT OR EXISTING EQUIPMENT NOT OPERATING PROPERLY FROM ANY CAUSE WHATSOEVER SHALL BE REPAIRED WITH NEW EQUIPMENT PROVIDED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE CONTRACT AND OR OWNER OF THE TRAFFIC SIGNAL SYSTEM, ALL AS APPROVED BY THE ENGINEER.
- 3) ALL CABINET MODIFICATIONS AND/OR LOAD SWITCH REPLACEMENTS REQUIRED FOR PROPER OPERATION OF LED SIGNAL INDICATIONS TO THE SATISFACTION OF THE ENGINEER SHALL BE INCLUDED IN THE COST OF PAY ITEM PEDESTRIAN SIGNAL HEAD, LED.
- 4) REMOVE ALL EXISTING PEDESTRIAN SIGNAL HEADS AND REPLACE WITH LED PEDESTRIAN SIGNAL HEAD WITH COUNTDOWN TIMER, REMOVE AND REPLACE ALL PEDESTRIAN PUSH-BUTTONS. UPS SHALL BE PROVIDED FOR EXISTING CONTROLLER AT SOUTHEAST CORNER OF INTERSECTION

REMOVAL OF EXISTING TRAFFIC SIGNAL EQUIPMENT

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

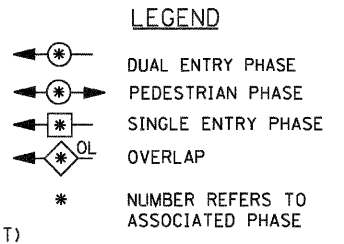
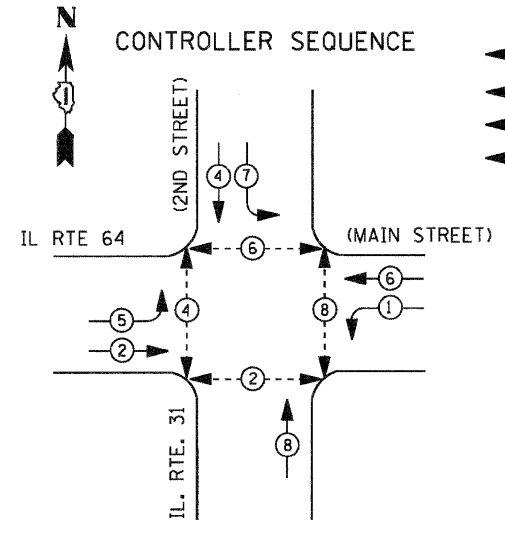
- 4 EACH PEDESTRIAN SIGNAL HEAD, 2 - FACE
- 4 EACH PEDESTRIAN PUSH-BUTTON

REVISIONS	
NAME	DATE
RWA	08/2011

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION
TRAFFIC SIGNAL PLAN
 ILL. RTE. 64 (MAIN ST.) AT ILL. RTE. 31 (2ND ST.)
 ST. CHARLES, ILLINOIS
 SCALE 1:250
 DATE 7-24-96
 DRAWN BY FPB
 CHECKED BY ABR / GMZ

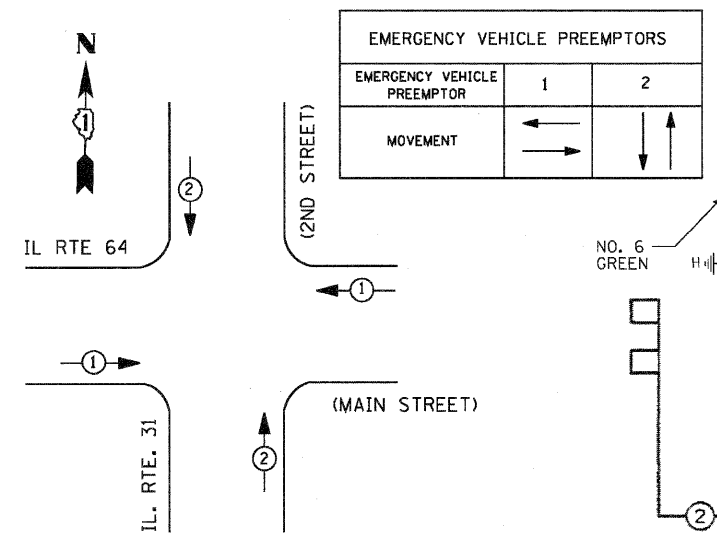
CHRISTOPHER B. BURKE ENGINEERING LTD.
 9575 West Higgins Road, Suite 600
 Rosemont, Illinois 60018
 (847) 823-0500

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
307	(1272, 128 & 129)	KANE	265	236
STA. TO STA.		ILLINOIS FED. AID PROJECT		
FED. ROAD DIST. NO.		C-91-236-87		

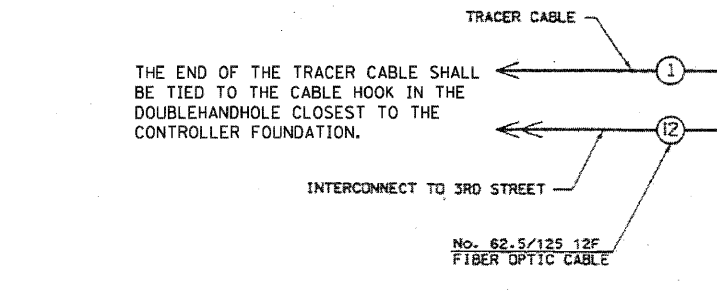


*** RESTORATION OF WORK AREA:** RESTORATION OF THE TRAFFIC SIGNAL WORK AREA SHALL BE INCLUDED IN THE RELATED PAY ITEM SUCH AS FOUNDATION, CONDUIT, HANDHOLE, TRENCH AND BACKFILL, ETC., AND NO EXTRA COMPENSATION SHALL BE ALLOWED. ALL ROADWAY SURFACES SUCH AS SHOULDERS, MEDIAN, SIDEWALKS, PAVEMENT ETC. SHALL BE REPLACED IN KIND. ALL DAMAGE TO MOWED LAWNS SHALL BE REPLACED WITH AN APPROVED SOD, AND ALL DAMAGE TO UNMOWED FIELDS SHALL BE SEEDING IN ACCORDANCE WITH STANDARD SPECIFICATIONS 252 AND 250 RESPECTIVELY.

PHASE DESIGNATION DIAGRAM

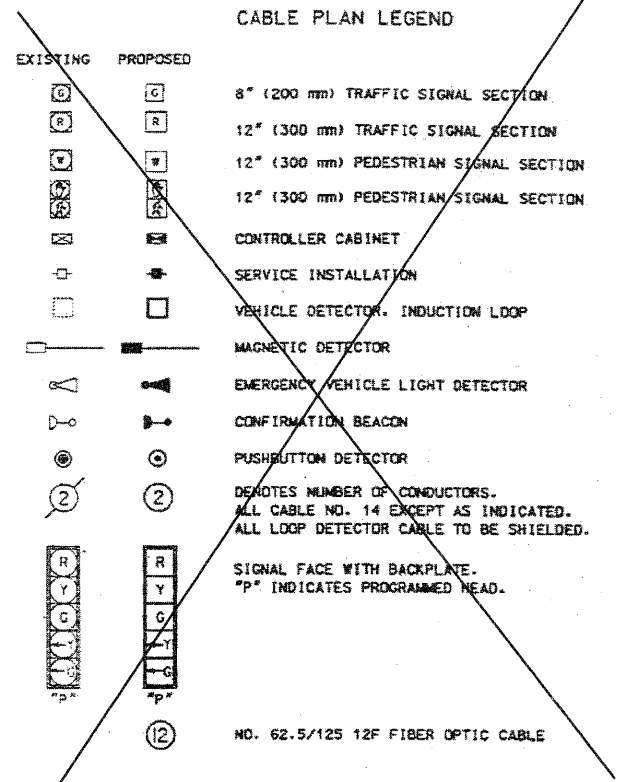


EMERGENCY VEHICLE PREEMPTION SEQUENCE



* SCHEDULE OF QUANTITIES

ITEM	UNIT	QUANTITY
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
PEDESTRIAN SIGNAL HEAD, LED, 2-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	4
PEDESTRIAN PUSH-BUTTON	EACH	4
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
UNINTERRUPTIBLE POWER SUPPLY SPECIAL	EACH	1



NOTE:
PUSHBUTTON "A" SHALL PLACE A CALL IN PHASES 2 AND 4.
PUSHBUTTON "B" SHALL PLACE A CALL IN PHASES 4 AND 6.
PUSHBUTTON "C" SHALL PLACE A CALL IN PHASES 6 AND 8.
PUSHBUTTON "D" SHALL PLACE A CALL IN PHASES 2 AND 8.

* INDICATES WORK FOR CONTRACT 60R33

REVISIONS

NAME	DATE
RWA	08/2011

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
SCHEDULE OF QUANTITIES AND CABLE PLAN
ILL. RTE. 64 (MAIN ST.) AT ILL. RTE. 31 (2ND ST.)
ST. CHARLES, ILLINOIS

SCALE: N.T.S. DATE: 7-24-96
DRAWN BY: FFB / FCP
CHECKED BY: ABR / GAZ

CHRISTOPHER B. BURKE ENGINEERING LTD.
9575 West Higgins Road, Suite 500
Rosemont, Illinois 60018
(847) 823-0500

FILE NAME	USER NAME	DESIGNED	DRAWN	CHECKED	DATE
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL ROUTE 64 (MAIN ST) AT 2nd STREET
CABLE MODERNIZATION PLAN
SCALE: N.T.S. SHEET NO. 2 OF 2 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
307	2011-100-TS	KANE	23	14

CONTRACT NO. 60R33
ILLINOIS FED. AID PROJECT



F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
307	1288-R-2	KANE	128	113
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			
C-91-236-87				

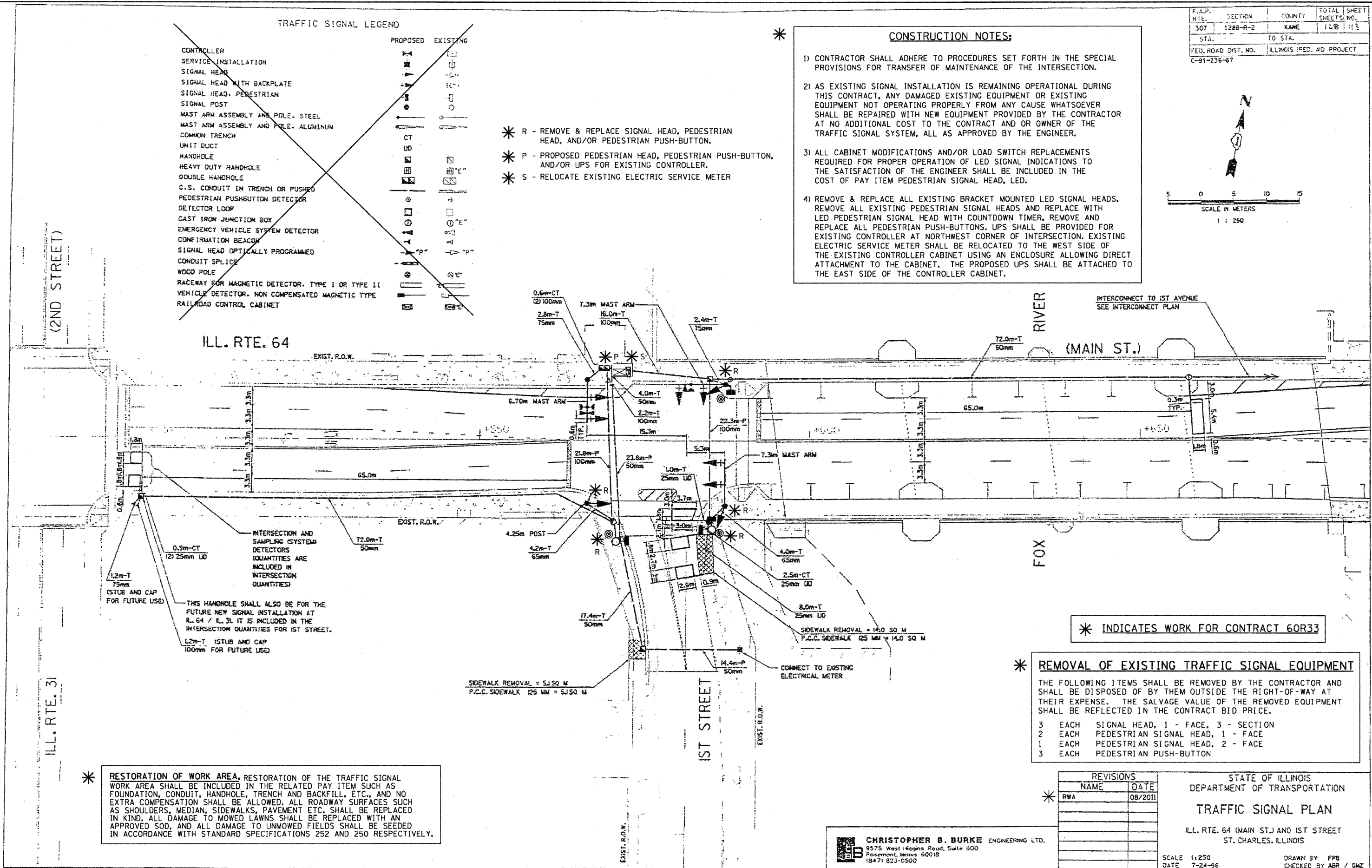
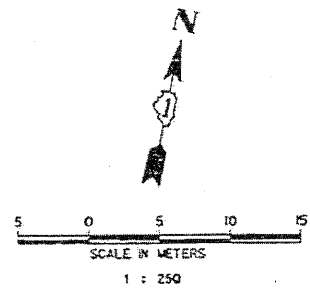
TRAFFIC SIGNAL LEGEND

	PROPOSED	EXISTING
CONTROLLER	[Symbol]	[Symbol]
SERVICE INSTALLATION	[Symbol]	[Symbol]
SIGNAL HEAD	[Symbol]	[Symbol]
SIGNAL HEAD WITH BACKPLATE	[Symbol]	[Symbol]
SIGNAL HEAD, PEDESTRIAN	[Symbol]	[Symbol]
SIGNAL POST	[Symbol]	[Symbol]
MAST ARM ASSEMBLY AND POLE, STEEL	[Symbol]	[Symbol]
MAST ARM ASSEMBLY AND POLE, ALUMINUM	[Symbol]	[Symbol]
COMMON TRENCH	[Symbol]	[Symbol]
UNIT DUCT	[Symbol]	[Symbol]
HANDHOLE	[Symbol]	[Symbol]
HEAVY DUTY HANDHOLE	[Symbol]	[Symbol]
DOUBLE HANDHOLE	[Symbol]	[Symbol]
G.S. CONDUIT IN TRENCH OR PUSHED	[Symbol]	[Symbol]
PEDESTRIAN PUSHBUTTON DETECTOR	[Symbol]	[Symbol]
DETECTOR LOOP	[Symbol]	[Symbol]
CAST IRON JUNCTION BOX	[Symbol]	[Symbol]
EMERGENCY VEHICLE SYSTEM DETECTOR	[Symbol]	[Symbol]
CONFIRMATION BEACON	[Symbol]	[Symbol]
SIGNAL HEAD OPTICALLY PROGRAMMED	[Symbol]	[Symbol]
CONDUIT SPLICE	[Symbol]	[Symbol]
WOOD POLE	[Symbol]	[Symbol]
RACEWAY FOR MAGNETIC DETECTOR, TYPE I OR TYPE II	[Symbol]	[Symbol]
VEHICLE DETECTOR, NON COMPENSATED MAGNETIC TYPE	[Symbol]	[Symbol]
RAILROAD CONTROL CABINET	[Symbol]	[Symbol]

- * R - REMOVE & REPLACE SIGNAL HEAD, PEDESTRIAN HEAD, AND/OR PEDESTRIAN PUSH-BUTTON.
- * P - PROPOSED PEDESTRIAN HEAD, PEDESTRIAN PUSH-BUTTON, AND/OR UPS FOR EXISTING CONTROLLER.
- * S - RELOCATE EXISTING ELECTRIC SERVICE METER

CONSTRUCTION NOTES:

- 1) CONTRACTOR SHALL ADHERE TO PROCEDURES SET FORTH IN THE SPECIAL PROVISIONS FOR TRANSFER OF MAINTENANCE OF THE INTERSECTION.
- 2) AS EXISTING SIGNAL INSTALLATION IS REMAINING OPERATIONAL DURING THIS CONTRACT, ANY DAMAGED EXISTING EQUIPMENT OR EXISTING EQUIPMENT NOT OPERATING PROPERLY FROM ANY CAUSE WHATSOEVER SHALL BE REPAIRED WITH NEW EQUIPMENT PROVIDED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE CONTRACT AND OR OWNER OF THE TRAFFIC SIGNAL SYSTEM, ALL AS APPROVED BY THE ENGINEER.
- 3) ALL CABINET MODIFICATIONS AND/OR LOAD SWITCH REPLACEMENTS REQUIRED FOR PROPER OPERATION OF LED SIGNAL INDICATIONS TO THE SATISFACTION OF THE ENGINEER SHALL BE INCLUDED IN THE COST OF PAY ITEM PEDESTRIAN SIGNAL HEAD, LED.
- 4) REMOVE & REPLACE ALL EXISTING BRACKET MOUNTED LED SIGNAL HEADS, REMOVE ALL EXISTING PEDESTRIAN SIGNAL HEADS AND REPLACE WITH LED PEDESTRIAN SIGNAL HEAD WITH COUNTDOWN TIMER, REMOVE AND REPLACE ALL PEDESTRIAN PUSH-BUTTONS. UPS SHALL BE PROVIDED FOR EXISTING CONTROLLER AT NORTHWEST CORNER OF INTERSECTION. EXISTING ELECTRIC SERVICE METER SHALL BE RELOCATED TO THE WEST SIDE OF THE EXISTING CONTROLLER CABINET USING AN ENCLOSURE ALLOWING DIRECT ATTACHMENT TO THE CABINET. THE PROPOSED UPS SHALL BE ATTACHED TO THE EAST SIDE OF THE CONTROLLER CABINET.



* INDICATES WORK FOR CONTRACT 60R33

*** REMOVAL OF EXISTING TRAFFIC SIGNAL EQUIPMENT**

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

3	EACH	SIGNAL HEAD, 1 - FACE, 3 - SECTION
2	EACH	PEDESTRIAN SIGNAL HEAD, 1 - FACE
1	EACH	PEDESTRIAN SIGNAL HEAD, 2 - FACE
3	EACH	PEDESTRIAN PUSH-BUTTON

* RESTORATION OF WORK AREA, RESTORATION OF THE TRAFFIC SIGNAL WORK AREA SHALL BE INCLUDED IN THE RELATED PAY ITEM SUCH AS FOUNDATION, CONDUIT, HANDHOLE, TRENCH AND BACKFILL, ETC., AND NO EXTRA COMPENSATION SHALL BE ALLOWED. ALL ROADWAY SURFACES SUCH AS SHOULDERS, MEDIAN, SIDEWALKS, PAVEMENT ETC. SHALL BE REPLACED IN KIND. ALL DAMAGE TO MOWED LAWNS SHALL BE REPLACED WITH AN APPROVED SOD, AND ALL DAMAGE TO UNMOWED FIELDS SHALL BE SEEDD IN ACCORDANCE WITH STANDARD SPECIFICATIONS 252 AND 250 RESPECTIVELY.

REVISIONS	
NAME	DATE
RWA	08/2011

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION
TRAFFIC SIGNAL PLAN
 ILL. RTE. 64 (MAIN ST.) AND 1ST STREET
 ST. CHARLES, ILLINOIS

CHRISTOPHER B. BURKE ENGINEERING LTD.
 9575 West Higgins Road, Suite 600
 Rosemont, Illinois 60018
 (847) 823-0500

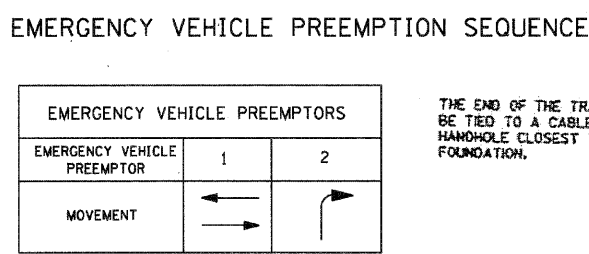
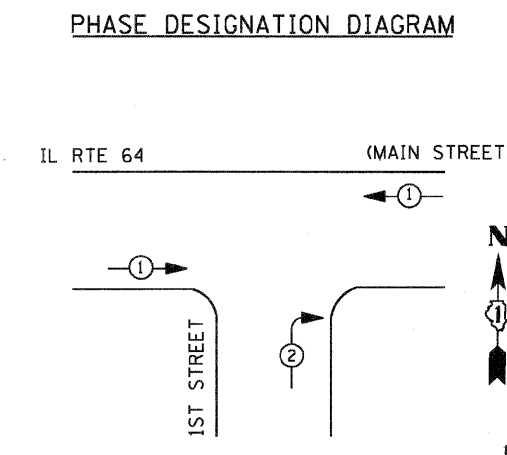
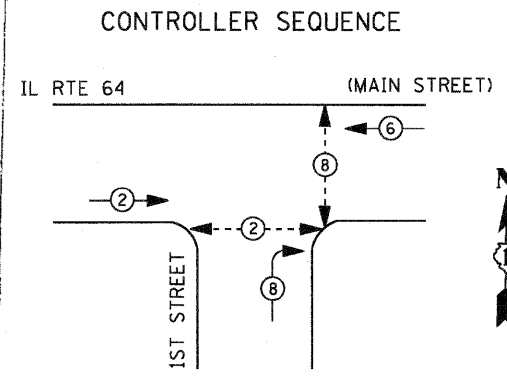
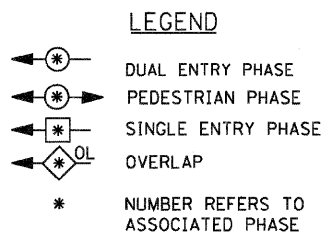
SCALE 1:250
 DATE 7-24-96
 DRAWN BY FFB
 CHECKED BY ABR / GMZ

FILE NAME =	USER NAME = USERNAME	DESIGNED - DW	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	IL ROUTE 64 (MAIN ST) AT 1st STREET TRAFFIC SIGNAL MODERNIZATION PLAN	SCALE: N.T.S.	SHEET NO. 1 OF 2 SHEETS	STA. TO STA.	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
ka:\projects\11043\design\sheet files\164pro1stdgn	PLOT SCALE = 28.0000' / IN.	DRAWN - JDH	REVISED -						307	2011-100-TS	KANE	23	15
PLOT DATE = 12/14/2011	DATE -	CHECKED - KMM	REVISED -						CONTRACT NO. 60R33				
		DATE -	REVISED -						ILLINOIS FED. AID PROJECT				

F.A.P. RITE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
307	1288-R-2	KANE	128	114
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
C-91-236-87				



* RESTORATION OF WORK AREA, RESTORATION OF THE TRAFFIC SIGNAL WORK AREA SHALL BE INCLUDED IN THE RELATED PAY ITEM SUCH AS FOUNDATION, CONDUIT, HANDHOLE, TRENCH AND BACKFILL, ETC., AND NO EXTRA COMPENSATION SHALL BE ALLOWED. ALL ROADWAY SURFACES SUCH AS SHOULDERS, MEDIAN, SIDEWALKS, PAVEMENT ETC. SHALL BE REPLACED IN KIND. ALL DAMAGE TO MOWED LAWNS SHALL BE REPLACED WITH AN APPROVED SOD, AND ALL DAMAGE TO UNMOWED FIELDS SHALL BE SEEDED IN ACCORDANCE WITH STANDARD SPECIFICATIONS 252 AND 250 RESPECTIVELY.

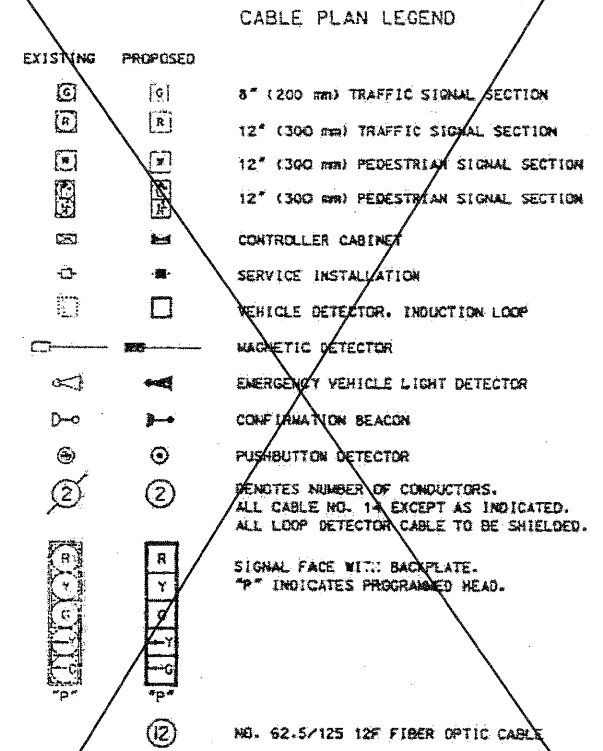
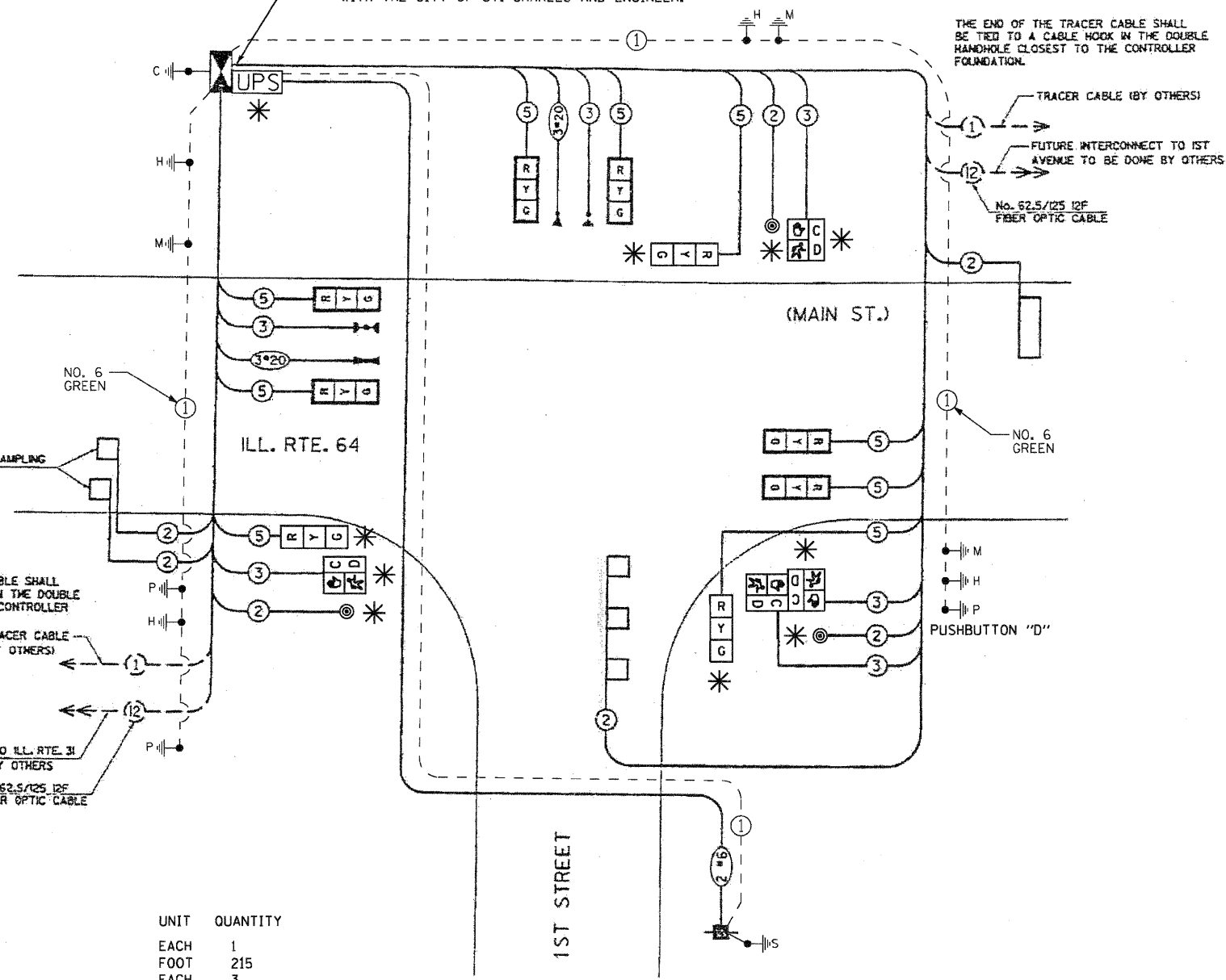


THE END OF THE TRACER CABLE SHALL BE TIED TO A CABLE HOOK IN THE DOUBLE HANDHOLE CLOSEST TO THE CONTROLLER FOUNDATION.

FUTURE INTERCONNECT TO ILL. RTE. 31 (2ND ST.) TO BE DONE BY OTHERS

* CONTRACTOR SHALL RELOCATE THE EXISTING SERVICE METER TO THE WEST SIDE OF CONTROLLER CABINET TO ALLOW THE INSTALLATION OF THE UPS ON THE EAST SIDE OF THE CABINET. THIS WORK SHALL BE COORDINATED WITH THE CITY OF ST. CHARLES AND ENGINEER.

THE END OF THE TRACER CABLE SHALL BE TIED TO A CABLE HOOK IN THE DOUBLE HANDHOLE CLOSEST TO THE CONTROLLER FOUNDATION.



* **SCHEDULE OF QUANTITIES**

ITEM	UNIT	QUANTITY
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2C	FOOT	215
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	3
PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	2
PEDESTRIAN SIGNAL HEAD, LED, 2-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	1
PEDESTRIAN PUSH-BUTTON	EACH	3
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
UNINTERRUPTIBLE POWER SUPPLY SPECIAL	EACH	1
RELOCATE EXISTING ELECTRIC SERVICE METER	EACH	1

NOTE:
PUSHBUTTON "D" SHALL PLACE A CALL IN PHASES 2 AND 8.

* INDICATES WORK FOR CONTRACT 60R33

REVISIONS

NAME	DATE
RWA	08/2011

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
SCHEDULE OF QUANTITIES AND CABLE PLAN
ILL. RTE. 64 (MAIN ST.) AT 1ST STREET
ST. CHARLES, ILLINOIS

CHRISTOPHER B. BURKE ENGINEERING LTD.
9575 West Higgins Road, Suite 600
Rosemont, Illinois 60018
(647) 823-0500

SCALE: N.T.S.
DATE: 7-24-96
DRAWN BY: FPB / FCP
CHECKED BY: AGR / GMZ

FILE NAME	USER NAME	DESIGNED	REVISIONS
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		JDH	REVISED -
		KMM	REVISED -
			REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**IL ROUTE 64 (MAIN ST) AT 1st STREET
CABLE MODERNIZATION PLAN**

SCALE: N.T.S. SHEET NO. 2 OF 2 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
307	2011-100-TS	KANE	23	16
				CONTRACT NO. 60R33
ILLINOIS FED. AID PROJECT				



TRAFFIC SIGNAL LEGEND

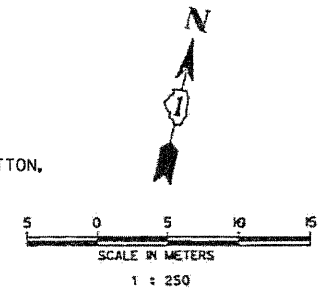
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SERVICE INSTALLATION	[Symbol]	[Symbol]
SIGNAL HEAD	[Symbol]	[Symbol]
SIGNAL HEAD WITH BACKPLATE	[Symbol]	[Symbol]
SIGNAL HEAD, PEDESTRIAN	[Symbol]	[Symbol]
SIGNAL POST	[Symbol]	[Symbol]
MAST ARM ASSEMBLY AND POLE, STEEL	[Symbol]	[Symbol]
MAST ARM ASSEMBLY AND POLE, ALUMINUM	[Symbol]	[Symbol]
COMMON TRENCH	[Symbol]	[Symbol]
UNIT DUCT	[Symbol]	[Symbol]
HANDHOLE	[Symbol]	[Symbol]
HEAVY DUTY HANDHOLE	[Symbol]	[Symbol]
DOUBLE HANDHOLE	[Symbol]	[Symbol]
G.S. CONDUIT IN TRENCH OR PUSHED	[Symbol]	[Symbol]
PEDESTRIAN PUSHBUTTON DETECTOR	[Symbol]	[Symbol]
DETECTOR LOOP	[Symbol]	[Symbol]
CAST IRON JUNCTION BOX	[Symbol]	[Symbol]
EMERGENCY VEHICLE SYSTEM DETECTOR	[Symbol]	[Symbol]
CONFIRMATION BEACON	[Symbol]	[Symbol]
SIGNAL HEAD OPTICALLY PROGRAMMED	[Symbol]	[Symbol]
CONDUIT SPLICE	[Symbol]	[Symbol]
WOOD POLE	[Symbol]	[Symbol]
RACEWAY FOR MAGNETIC DETECTOR, TYPE I OR TYPE II	[Symbol]	[Symbol]
VEHICLE DETECTOR, NON COMPENSATED MAGNETIC TYPE	[Symbol]	[Symbol]
RAILROAD CONTROL CABINET	[Symbol]	[Symbol]

* RESTORATION OF WORK AREA, RESTORATION OF THE TRAFFIC SIGNAL WORK AREA SHALL BE INCLUDED IN THE RELATED PAY ITEM SUCH AS FOUNDATION, CONDUIT, HANDHOLE, TRENCH AND BACKFILL, ETC., AND NO EXTRA COMPENSATION SHALL BE ALLOWED. ALL ROADWAY SURFACES SUCH AS SHOULDERS, MEDIAN, SIDEWALKS, PAVEMENT ETC. SHALL BE REPLACED IN KIND. ALL DAMAGE TO MOWED LAWNS SHALL BE REPLACED WITH AN APPROVED SOD, AND ALL DAMAGE TO UNMOWED FIELDS SHALL BE SEEDDED IN ACCORDANCE WITH STANDARD SPECIFICATIONS 252 AND 250 RESPECTIVELY.

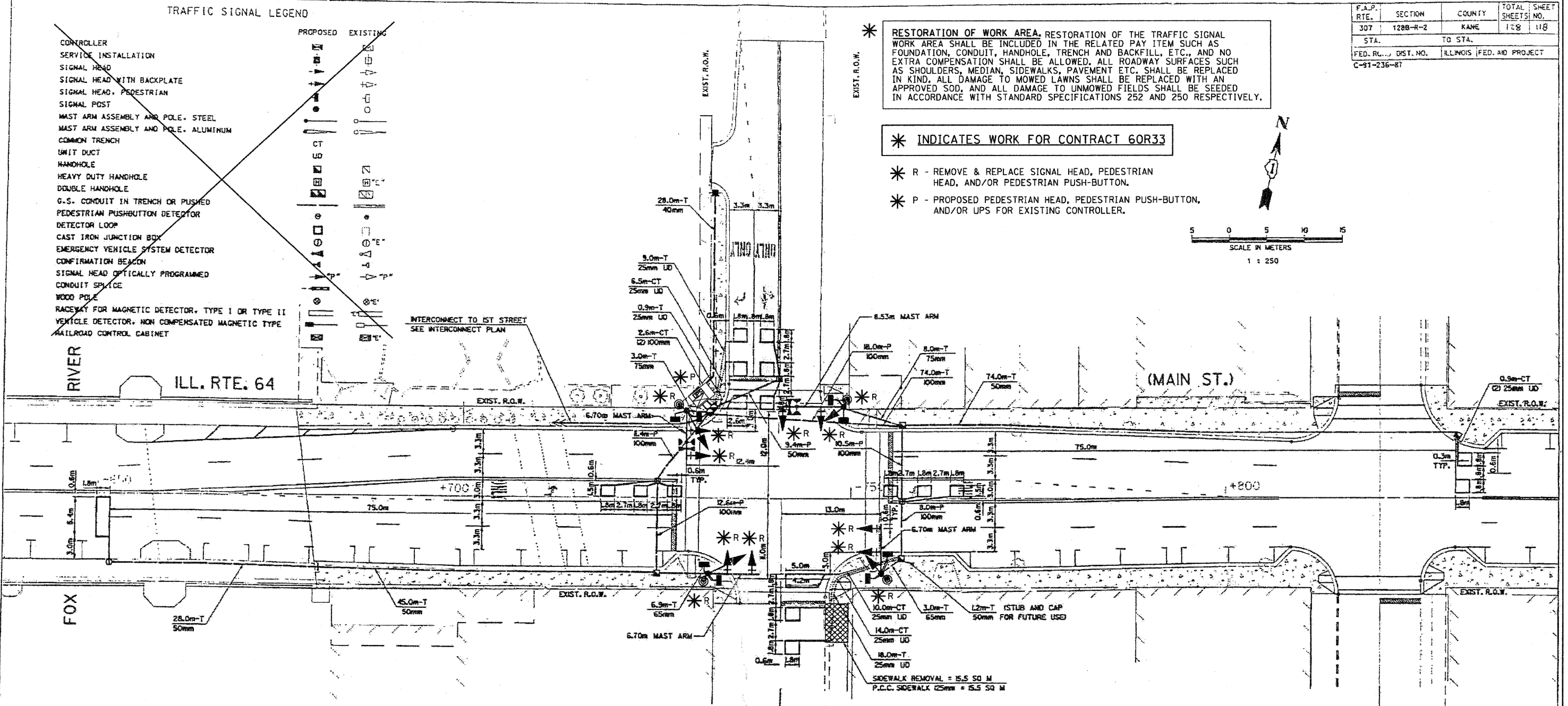
* INDICATES WORK FOR CONTRACT 60R33

* R - REMOVE & REPLACE SIGNAL HEAD, PEDESTRIAN HEAD, AND/OR PEDESTRIAN PUSH-BUTTON.

* P - PROPOSED PEDESTRIAN HEAD, PEDESTRIAN PUSH-BUTTON, AND/OR UPS FOR EXISTING CONTROLLER.



F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
307	1288-R-2	KANE	128	118
STA. TO STA.		ILLINOIS FED. AID PROJECT		
FED. R.O.W. DIST. NO.		C-91-236-87		



- * CONSTRUCTION NOTES:
- CONTRACTOR SHALL ADHERE TO PROCEDURES SET FORTH IN THE SPECIAL PROVISIONS FOR TRANSFER OF MAINTENANCE OF THE INTERSECTION.
 - AS EXISTING SIGNAL INSTALLATION IS REMAINING OPERATIONAL DURING THIS CONTRACT, ANY DAMAGED EXISTING EQUIPMENT OR EXISTING EQUIPMENT NOT OPERATING PROPERLY FROM ANY CAUSE WHATSOEVER SHALL BE REPAIRED WITH NEW EQUIPMENT PROVIDED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE CONTRACT AND OR OWNER OF THE TRAFFIC SIGNAL SYSTEM, ALL AS APPROVED BY THE ENGINEER.
 - ALL CABINET MODIFICATIONS AND/OR LOAD SWITCH REPLACEMENTS REQUIRED FOR PROPER OPERATION OF LED SIGNAL INDICATIONS TO THE SATISFACTION OF THE ENGINEER SHALL BE INCLUDED IN THE COST OF PAY ITEM PEDESTRIAN SIGNAL HEAD, LED.
 - REMOVE ALL EXISTING SIGNAL HEADS AND REPLACE WITH LED SIGNAL HEADS, REMOVE ALL EXISTING PEDESTRIAN SIGNAL HEADS AND REPLACE WITH LED PEDESTRIAN SIGNAL HEAD WITH COUNTDOWN TIMER, REMOVE AND REPLACE ALL PEDESTRIAN PUSH-BUTTONS, UPS SHALL BE PROVIDED FOR EXISTING CONTROLLER AT NORTHWEST CORNER OF INTERSECTION. PROPOSED UPS SHALL BE ATTACHED TO THE BACK SIDE OF THE CONTROLLER CABINET.

- * REMOVAL OF EXISTING TRAFFIC SIGNAL EQUIPMENT
- THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR AND SHALL BE DISPOSED OF BY THEM OUTSIDE THE RIGHT-OF-WAY AT THEIR EXPENSE. THE SALVAGE VALUE OF THE REMOVED EQUIPMENT SHALL BE REFLECTED IN THE CONTRACT BID PRICE.
- | | | |
|---|------|------------------------------------|
| 8 | EACH | SIGNAL HEAD, 1 - FACE, 3 - SECTION |
| 4 | EACH | SIGNAL HEAD, 1 - FACE, 5 - SECTION |
| 4 | EACH | PEDESTRIAN SIGNAL HEAD, 2 - FACE |
| 4 | EACH | PEDESTRIAN PUSH-BUTTON |

* REVISIONS

NAME	DATE
RWA	08/2011

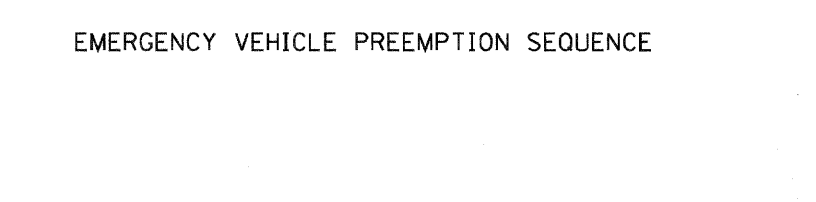
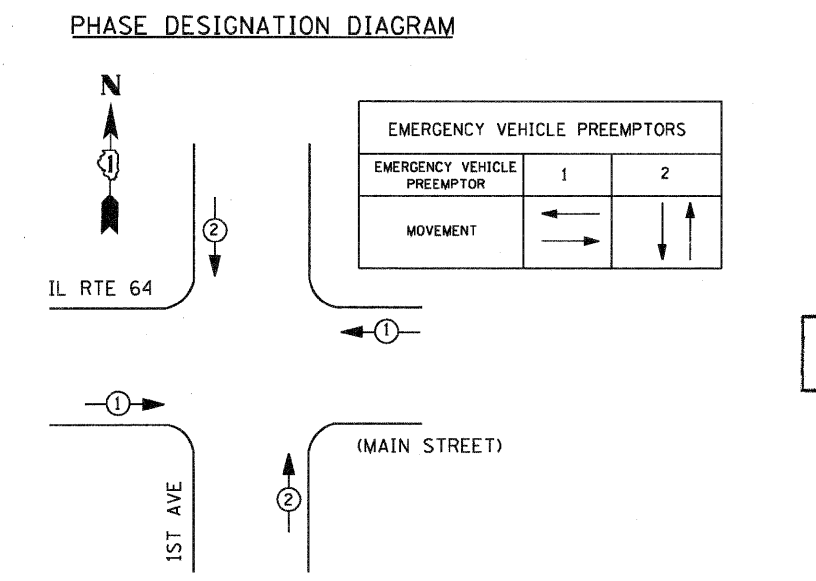
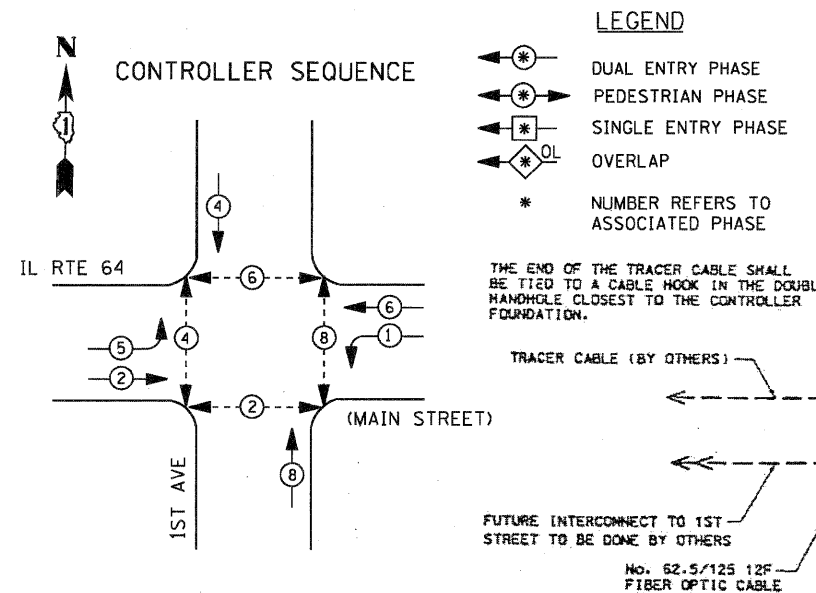
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION
TRAFFIC SIGNAL PLAN
 ILL. RTE. 64 (MAIN ST.) AT 1ST AVENUE
 ST. CHARLES, ILLINOIS

SCALE 1:250
 DATE 7-24-96

DRAWN BY FPB
 CHECKED BY ABR / GMZ

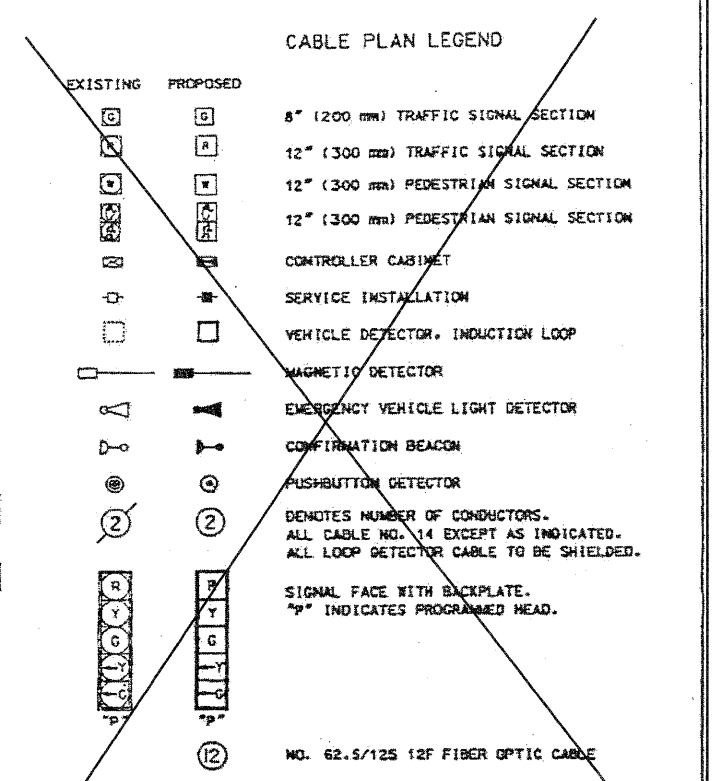
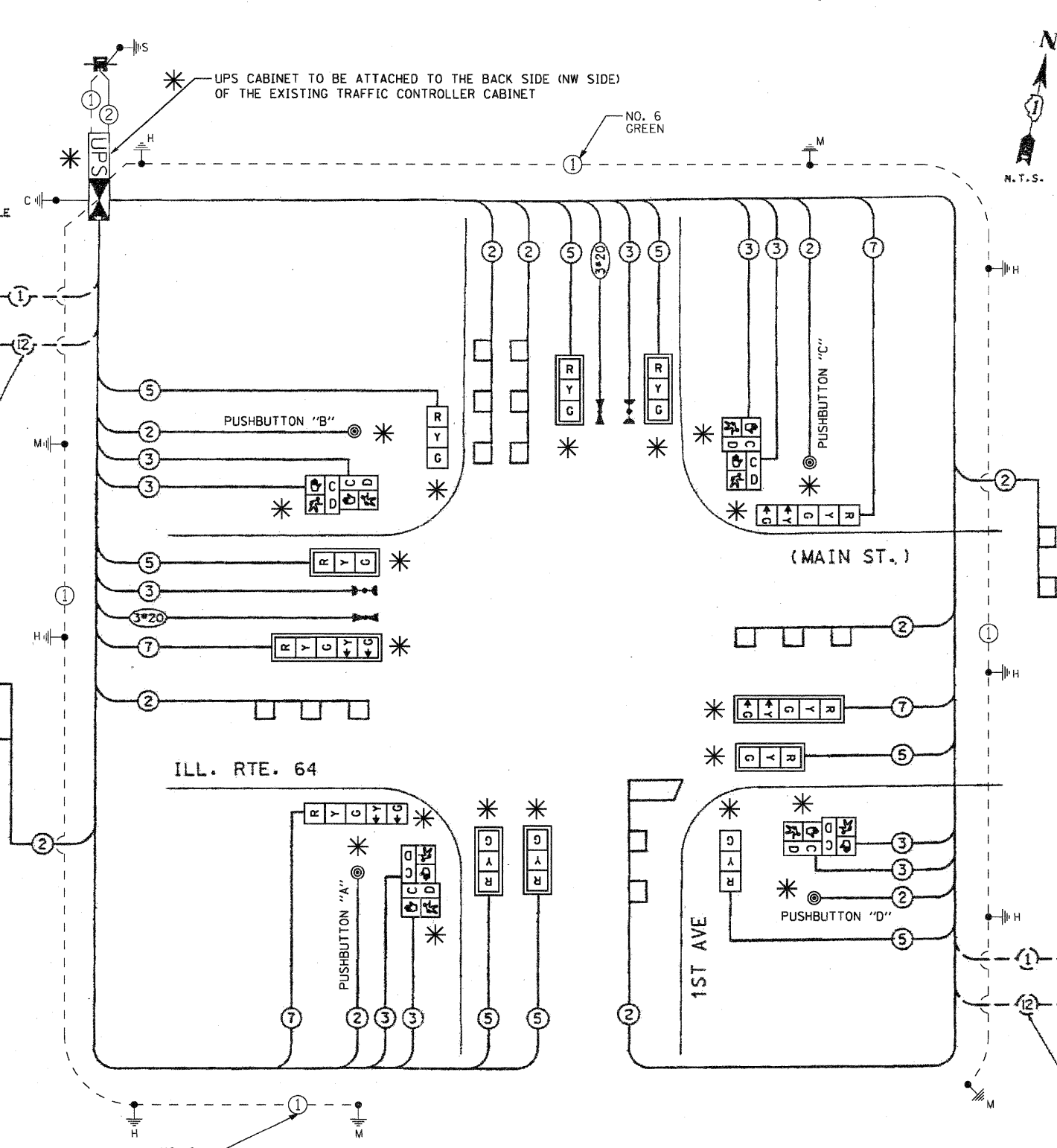
CHRISTOPHER B. BURKE ENGINEERING LTD.
 9575 West Higgins Road, Suite 600
 Rosemont, Illinois 60018
 (847) 823-0500

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
307	1288-R-2	KANE	128	119
STA. TO STA.		FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT		
		C-91-236-87		



* SCHEDULE OF QUANTITIES

ITEM	UNIT	QUANTITY
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	6
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	2
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	2
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED	EACH	2
PEDESTRIAN SIGNAL HEAD, LED, 2-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	4
TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM	EACH	8
PEDESTRIAN PUSH-BUTTON	EACH	4
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
UNINTERRUPTIBLE POWER SUPPLY SPECIAL	EACH	1



NOTE:

- PUSHBUTTON "A" SHALL PLACE A CALL IN PHASES 2 AND 4.
- PUSHBUTTON "B" SHALL PLACE A CALL IN PHASES 4 AND 6.
- PUSHBUTTON "C" SHALL PLACE A CALL IN PHASES 6 AND 8.
- PUSHBUTTON "D" SHALL PLACE A CALL IN PHASES 2 AND 8.

*** RESTORATION OF WORK AREA:** RESTORATION OF THE TRAFFIC SIGNAL WORK AREA SHALL BE INCLUDED IN THE RELATED PAY ITEM SUCH AS FOUNDATION, CONDUIT, HANDHOLE, TRENCH AND BACKFILL, ETC., AND NO EXTRA COMPENSATION SHALL BE ALLOWED. ALL ROADWAY SURFACES SUCH AS SHOULDERS, MEDIAN, SIDEWALKS, PAVEMENT ETC. SHALL BE REPLACED IN KIND. ALL DAMAGE TO MOWED LAWNS SHALL BE REPLACED WITH AN APPROVED SOD, AND ALL DAMAGE TO UNMOWED FIELDS SHALL BE SEEDED IN ACCORDANCE WITH STANDARD SPECIFICATIONS 252 AND 250 RESPECTIVELY.

*** INDICATES WORK FOR CONTRACT 60R33**

REVISIONS

NAME	DATE
RWA	08/2011

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION
SCHEDULE OF QUANTITIES AND CABLE PLAN
 ILL. RTE. 64 (MAIN ST.) AT 1ST AVENUE
 ST. CHARLES, ILLINOIS

SCALE: N.T.S.
 DATE: 7-24-96

DRAWN BY: FFB / FCP
 CHECKED BY: ABR / GMZ

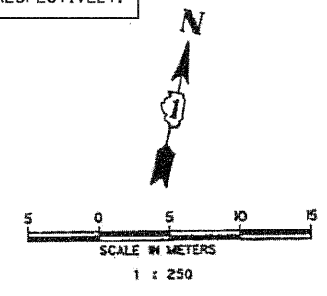
CHRISTOPHER B. BURKE ENGINEERING LTD.
 9575 West Higgins Road, Suite 600
 Rosemont, Illinois 60018
 (647) 823-0500

TRAFFIC SIGNAL LEGEND

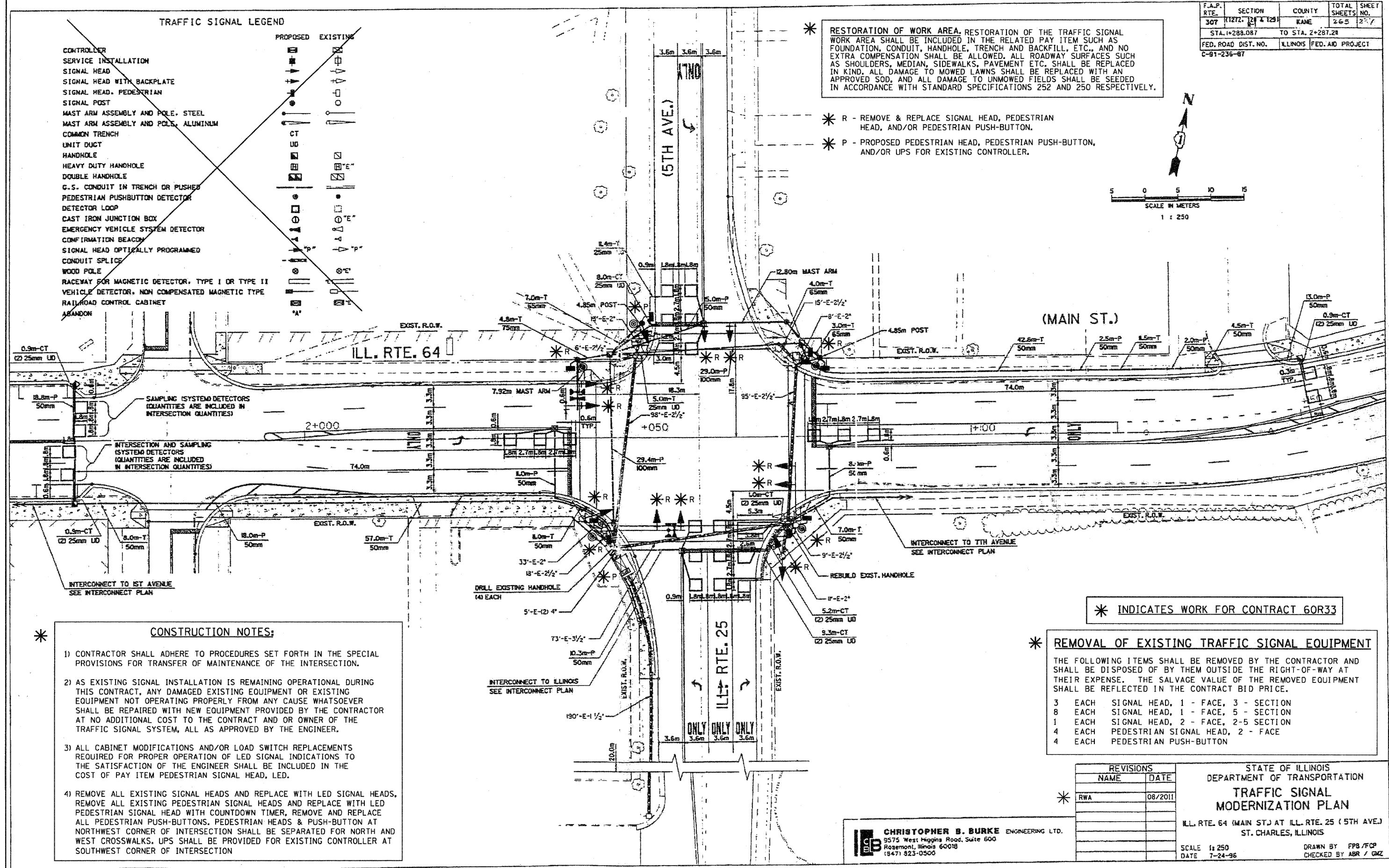
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CONTROLLER	[Symbol]	[Symbol]
SERVICE INSTALLATION	[Symbol]	[Symbol]
SIGNAL HEAD	[Symbol]	[Symbol]
SIGNAL HEAD WITH BACKPLATE	[Symbol]	[Symbol]
SIGNAL HEAD, PEDESTRIAN	[Symbol]	[Symbol]
SIGNAL POST	[Symbol]	[Symbol]
MAST ARM ASSEMBLY AND POLE, STEEL	[Symbol]	[Symbol]
MAST ARM ASSEMBLY AND POLE, ALUMINUM	[Symbol]	[Symbol]
COMMON TRENCH	[Symbol]	[Symbol]
UNIT DUCT	[Symbol]	[Symbol]
HANDHOLE	[Symbol]	[Symbol]
HEAVY DUTY HANDHOLE	[Symbol]	[Symbol]
DOUBLE HANDHOLE	[Symbol]	[Symbol]
C.S. CONDUIT IN TRENCH OR PUSHED	[Symbol]	[Symbol]
PEDESTRIAN PUSHBUTTON DETECTOR	[Symbol]	[Symbol]
DETECTOR LOOP	[Symbol]	[Symbol]
CAST IRON JUNCTION BOX	[Symbol]	[Symbol]
EMERGENCY VEHICLE SYSTEM DETECTOR	[Symbol]	[Symbol]
CONFIRMATION BEACON	[Symbol]	[Symbol]
SIGNAL HEAD OPTICALLY PROGRAMMED	[Symbol]	[Symbol]
CONDUIT SPLICE	[Symbol]	[Symbol]
WOOD POLE	[Symbol]	[Symbol]
RACEWAY FOR MAGNETIC DETECTOR, TYPE I OR TYPE II	[Symbol]	[Symbol]
VEHICLE DETECTOR, NON COMPENSATED MAGNETIC TYPE	[Symbol]	[Symbol]
RAILROAD CONTROL CABINET	[Symbol]	[Symbol]
ABANDON	[Symbol]	[Symbol]

* RESTORATION OF WORK AREA. RESTORATION OF THE TRAFFIC SIGNAL WORK AREA SHALL BE INCLUDED IN THE RELATED PAY ITEM SUCH AS FOUNDATION, CONDUIT, HANDHOLE, TRENCH AND BACKFILL, ETC., AND NO EXTRA COMPENSATION SHALL BE ALLOWED. ALL ROADWAY SURFACES SUCH AS SHOULDERS, MEDIAN, SIDEWALKS, PAVEMENT ETC. SHALL BE REPLACED IN KIND. ALL DAMAGE TO MOWED LAWNS SHALL BE REPLACED WITH AN APPROVED SOD, AND ALL DAMAGE TO UNMOWED FIELDS SHALL BE SEEDED IN ACCORDANCE WITH STANDARD SPECIFICATIONS 252 AND 250 RESPECTIVELY.

- * R - REMOVE & REPLACE SIGNAL HEAD, PEDESTRIAN HEAD, AND/OR PEDESTRIAN PUSH-BUTTON.
- * P - PROPOSED PEDESTRIAN HEAD, PEDESTRIAN PUSH-BUTTON, AND/OR UPS FOR EXISTING CONTROLLER.



F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
307	11272-24-1251	KANE	265	237
STA. 1+288.087		TO STA. 2+287.28		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	
C-91-236-87				



- * **CONSTRUCTION NOTES:**
- 1) CONTRACTOR SHALL ADHERE TO PROCEDURES SET FORTH IN THE SPECIAL PROVISIONS FOR TRANSFER OF MAINTENANCE OF THE INTERSECTION.
 - 2) AS EXISTING SIGNAL INSTALLATION IS REMAINING OPERATIONAL DURING THIS CONTRACT, ANY DAMAGED EXISTING EQUIPMENT OR EXISTING EQUIPMENT NOT OPERATING PROPERLY FROM ANY CAUSE WHATSOEVER SHALL BE REPAIRED WITH NEW EQUIPMENT PROVIDED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE CONTRACT AND OR OWNER OF THE TRAFFIC SIGNAL SYSTEM, ALL AS APPROVED BY THE ENGINEER.
 - 3) ALL CABINET MODIFICATIONS AND/OR LOAD SWITCH REPLACEMENTS REQUIRED FOR PROPER OPERATION OF LED SIGNAL INDICATIONS TO THE SATISFACTION OF THE ENGINEER SHALL BE INCLUDED IN THE COST OF PAY ITEM PEDESTRIAN SIGNAL HEAD, LED.
 - 4) REMOVE ALL EXISTING SIGNAL HEADS AND REPLACE WITH LED SIGNAL HEADS, REMOVE ALL EXISTING PEDESTRIAN SIGNAL HEADS AND REPLACE WITH LED PEDESTRIAN SIGNAL HEAD WITH COUNTDOWN TIMER, REMOVE AND REPLACE ALL PEDESTRIAN PUSH-BUTTONS. PEDESTRIAN HEADS & PUSH-BUTTON AT NORTHWEST CORNER OF INTERSECTION SHALL BE SEPARATED FOR NORTH AND WEST CROSSWALKS. UPS SHALL BE PROVIDED FOR EXISTING CONTROLLER AT SOUTHWEST CORNER OF INTERSECTION

* INDICATES WORK FOR CONTRACT 60R33

- * **REMOVAL OF EXISTING TRAFFIC SIGNAL EQUIPMENT**
- THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR AND SHALL BE DISPOSED OF BY THEM OUTSIDE THE RIGHT-OF-WAY AT THEIR EXPENSE. THE SALVAGE VALUE OF THE REMOVED EQUIPMENT SHALL BE REFLECTED IN THE CONTRACT BID PRICE.
- | | | |
|---|------|------------------------------------|
| 3 | EACH | SIGNAL HEAD, 1 - FACE, 3 - SECTION |
| 8 | EACH | SIGNAL HEAD, 1 - FACE, 5 - SECTION |
| 1 | EACH | SIGNAL HEAD, 2 - FACE, 2-5 SECTION |
| 4 | EACH | PEDESTRIAN SIGNAL HEAD, 2 - FACE |
| 4 | EACH | PEDESTRIAN PUSH-BUTTON |

* **REVISIONS**

NAME	DATE
RWA	08/2011

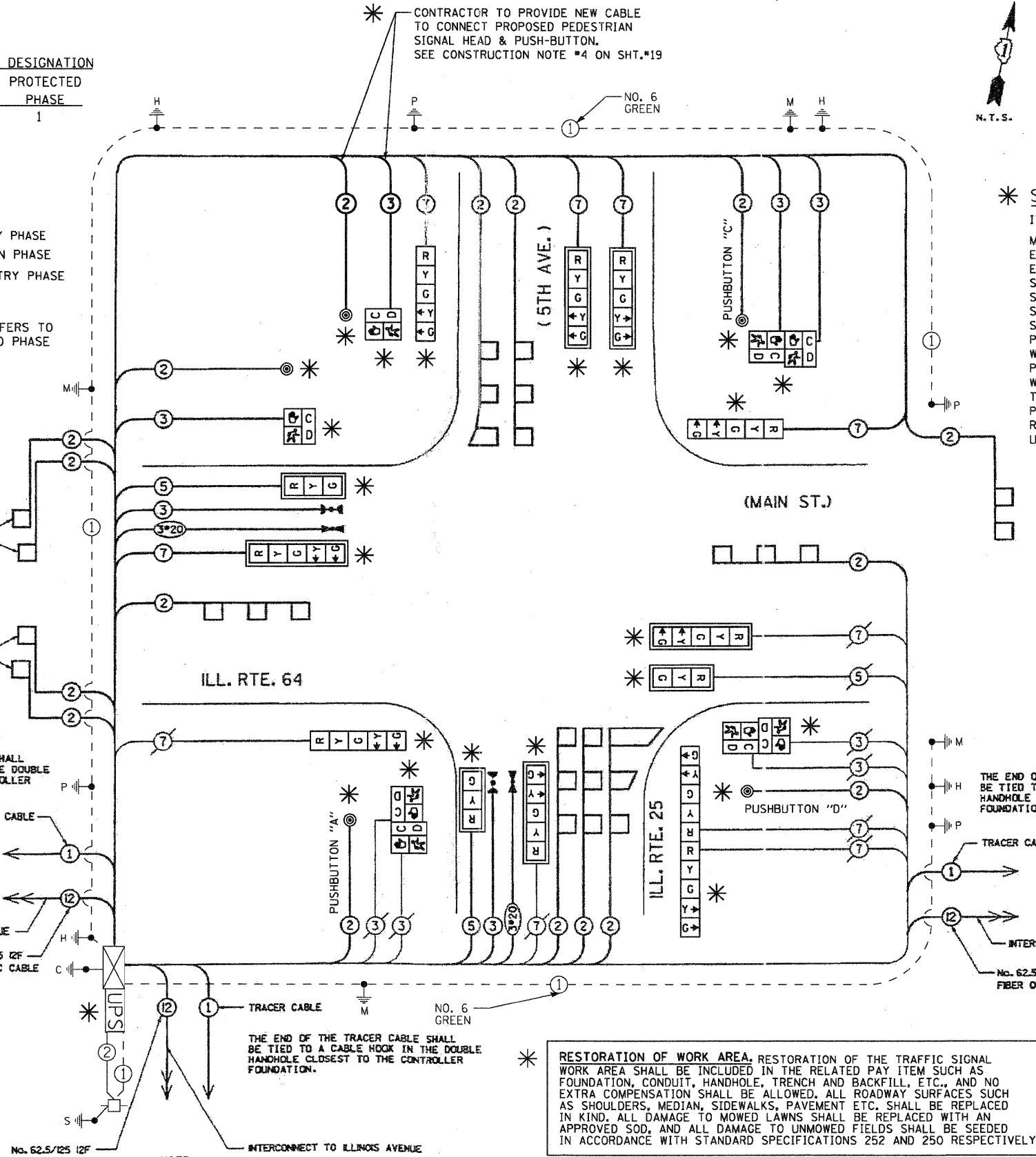
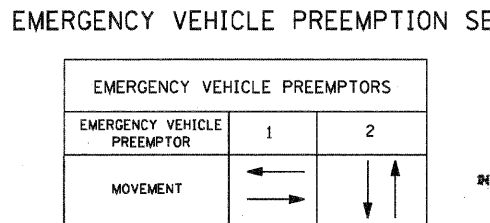
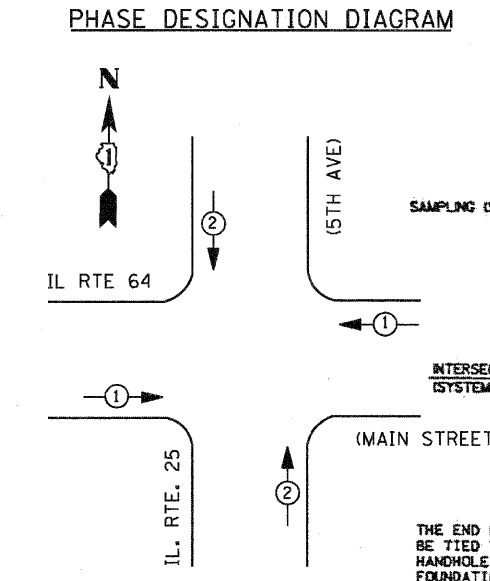
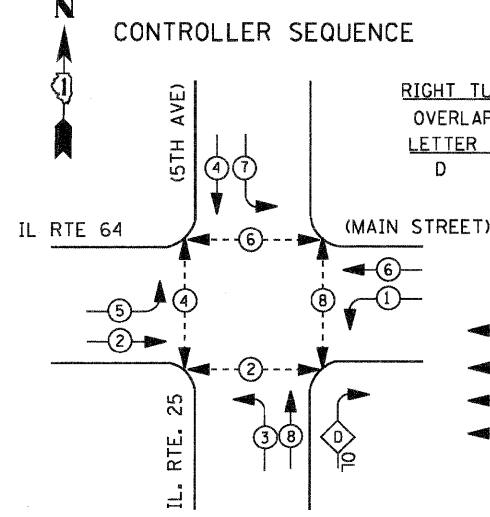
CHRISTOPHER B. BURKE ENGINEERING LTD.
 9575 West Higgins Road, Suite 600
 Rosemont, Illinois 60018
 (847) 823-0500

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION
**TRAFFIC SIGNAL
 MODERNIZATION PLAN**
 ILL. RTE. 64 (MAIN ST.) AT ILL. RTE. 25 (5TH AVE.)
 ST. CHARLES, ILLINOIS

SCALE 1:250
 DATE 7-24-96

DRAWN BY FPS / FCP
 CHECKED BY ABR / GMZ

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
307	1127-128 & 129	KANE	265	238
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	
C-91-236-87				



* SCHEDULE OF QUANTITIES

ITEM	UNIT	QUANTITY
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	137
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	144
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	3
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	3
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED	EACH	5
SIGNAL HEAD, LED, 2-FACE, 5-SECTION, BRACKET MOUNTED	EACH	1
PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	2
PEDESTRIAN SIGNAL HEAD, LED, 2-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	3
TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM	EACH	8
PEDESTRIAN PUSH-BUTTON	EACH	5
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
UNINTERRUPTIBLE POWER SUPPLY SPECIAL	EACH	1

*** RESTORATION OF WORK AREA.** RESTORATION OF THE TRAFFIC SIGNAL WORK AREA SHALL BE INCLUDED IN THE RELATED PAY ITEM SUCH AS FOUNDATION, CONDUIT, HANDHOLE, TRENCH AND BACKFILL, ETC., AND NO EXTRA COMPENSATION SHALL BE ALLOWED. ALL ROADWAY SURFACES SUCH AS SHOULDERS, MEDIAN, SIDEWALKS, PAVEMENT ETC. SHALL BE REPLACED IN KIND. ALL DAMAGE TO MOWED LAWNS SHALL BE REPLACED WITH AN APPROVED SOD, AND ALL DAMAGE TO UNMOWED FIELDS SHALL BE SEEDD IN ACCORDANCE WITH STANDARD SPECIFICATIONS 252 AND 250 RESPECTIVELY.

*** INDICATES WORK FOR CONTRACT 60R33**

REVISIONS	
NAME	DATE
RWA	08/2011

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
SCHEDULE OF QUANTITIES AND CABLE PLAN
ILL. RTE. 64 (MAIN ST.) AT ILL. RTE. 25 (5TH AVE.)
ST. CHARLES, ILLINOIS

SCALE: N.T.S.
DATE: 7-24-96

DRAWN BY: FFB / FCP
CHECKED BY: ABR / GMZ

CHRISTOPHER B. BURKE ENGINEERING LTD.
9575 West Higgins Road, Suite 600
Rosemont, Illinois 60018
(847) 923-0500

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PLOT DATE = 12/14/2011		DATE -	REVISED -

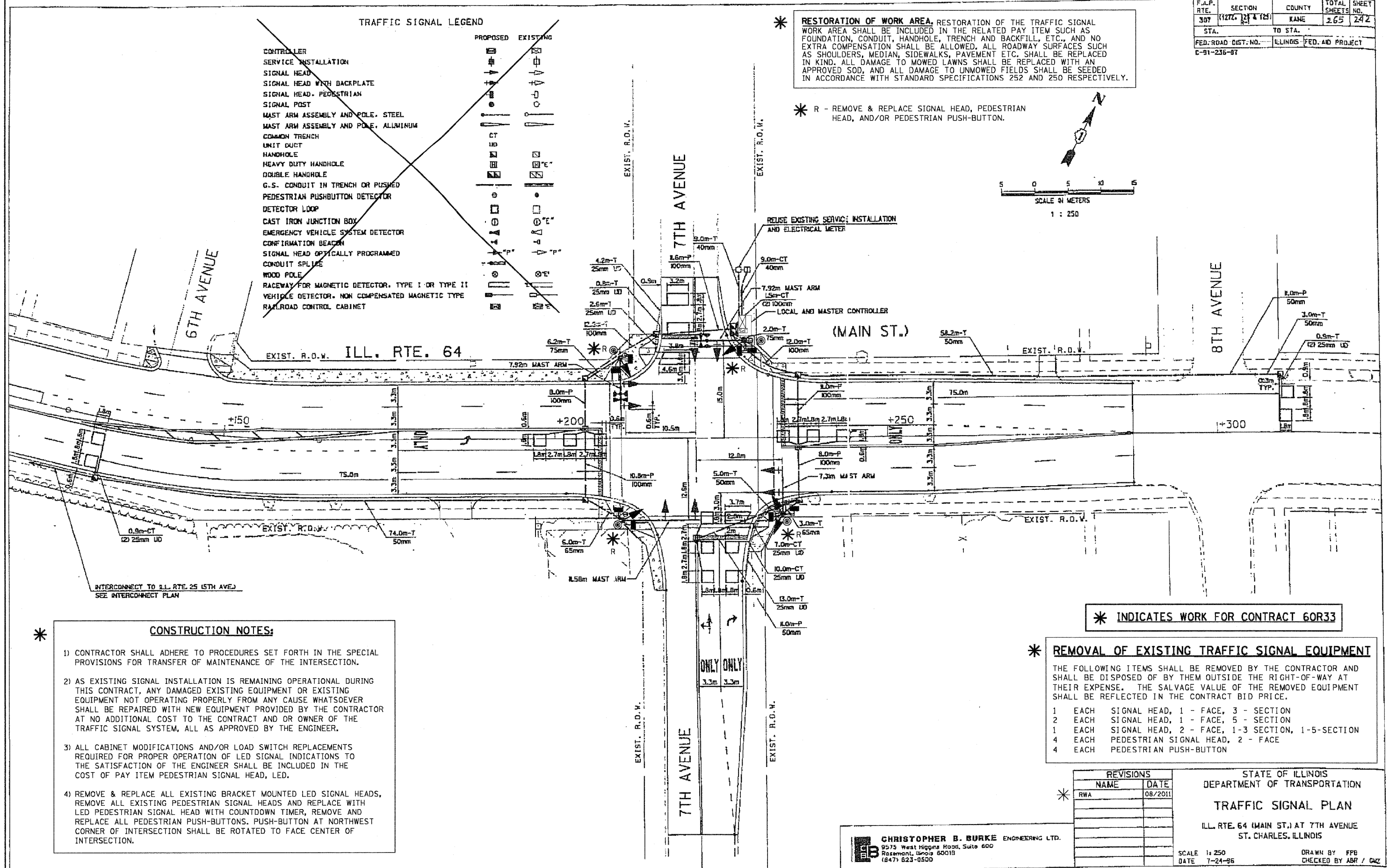
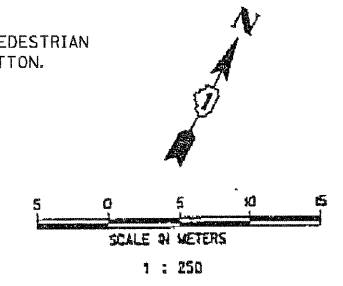
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
307	(1276, 1277 & 1278)	KANE	265	242
STA. TO STA.		ILLINOIS FED. AID PROJECT		
FED. ROAD DIST. NO.		C-91-236-87		

TRAFFIC SIGNAL LEGEND

	PROPOSED	EXISTING
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		
COMMON TRENCH		
UNIT DUCT		
HANDHOLE		
HEAVY DUTY HANDHOLE		
DOUBLE HANDHOLE		
G.S. CONDUIT IN TRENCH OR PUSHED		
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		

* **RESTORATION OF WORK AREA:** RESTORATION OF THE TRAFFIC SIGNAL WORK AREA SHALL BE INCLUDED IN THE RELATED PAY ITEM SUCH AS FOUNDATION, CONDUIT, HANDHOLE, TRENCH AND BACKFILL, ETC., AND NO EXTRA COMPENSATION SHALL BE ALLOWED. ALL ROADWAY SURFACES SUCH AS SHOULDERS, MEDIAN, SIDEWALKS, PAVEMENT ETC. SHALL BE REPLACED IN KIND. ALL DAMAGE TO MOWED LAWNS SHALL BE REPLACED WITH AN APPROVED SOD, AND ALL DAMAGE TO UNMOWED FIELDS SHALL BE SEEDD IN ACCORDANCE WITH STANDARD SPECIFICATIONS 252 AND 250 RESPECTIVELY.

* R - REMOVE & REPLACE SIGNAL HEAD, PEDESTRIAN HEAD, AND/OR PEDESTRIAN PUSH-BUTTON.



- * **CONSTRUCTION NOTES:**
- 1) CONTRACTOR SHALL ADHERE TO PROCEDURES SET FORTH IN THE SPECIAL PROVISIONS FOR TRANSFER OF MAINTENANCE OF THE INTERSECTION.
 - 2) AS EXISTING SIGNAL INSTALLATION IS REMAINING OPERATIONAL DURING THIS CONTRACT, ANY DAMAGED EXISTING EQUIPMENT OR EXISTING EQUIPMENT NOT OPERATING PROPERLY FROM ANY CAUSE WHATSOEVER SHALL BE REPAIRED WITH NEW EQUIPMENT PROVIDED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE CONTRACT AND OR OWNER OF THE TRAFFIC SIGNAL SYSTEM, ALL AS APPROVED BY THE ENGINEER.
 - 3) ALL CABINET MODIFICATIONS AND/OR LOAD SWITCH REPLACEMENTS REQUIRED FOR PROPER OPERATION OF LED SIGNAL INDICATIONS TO THE SATISFACTION OF THE ENGINEER SHALL BE INCLUDED IN THE COST OF PAY ITEM PEDESTRIAN SIGNAL HEAD, LED.
 - 4) REMOVE & REPLACE ALL EXISTING BRACKET MOUNTED LED SIGNAL HEADS, REMOVE ALL EXISTING PEDESTRIAN SIGNAL HEADS AND REPLACE WITH LED PEDESTRIAN SIGNAL HEAD WITH COUNTDOWN TIMER, REMOVE AND REPLACE ALL PEDESTRIAN PUSH-BUTTONS. PUSH-BUTTON AT NORTHWEST CORNER OF INTERSECTION SHALL BE ROTATED TO FACE CENTER OF INTERSECTION.

* INDICATES WORK FOR CONTRACT 60R33

- * **REMOVAL OF EXISTING TRAFFIC SIGNAL EQUIPMENT**
- THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR AND SHALL BE DISPOSED OF BY THEM OUTSIDE THE RIGHT-OF-WAY AT THEIR EXPENSE. THE SALVAGE VALUE OF THE REMOVED EQUIPMENT SHALL BE REFLECTED IN THE CONTRACT BID PRICE.
- | | | |
|---|------|---|
| 1 | EACH | SIGNAL HEAD, 1 - FACE, 3 - SECTION |
| 2 | EACH | SIGNAL HEAD, 1 - FACE, 5 - SECTION |
| 1 | EACH | SIGNAL HEAD, 2 - FACE, 1-3 SECTION, 1-5-SECTION |
| 4 | EACH | PEDESTRIAN SIGNAL HEAD, 2 - FACE |
| 4 | EACH | PEDESTRIAN PUSH-BUTTON |

* **REVISIONS**

NAME	DATE
RWA	08/2011

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL PLAN

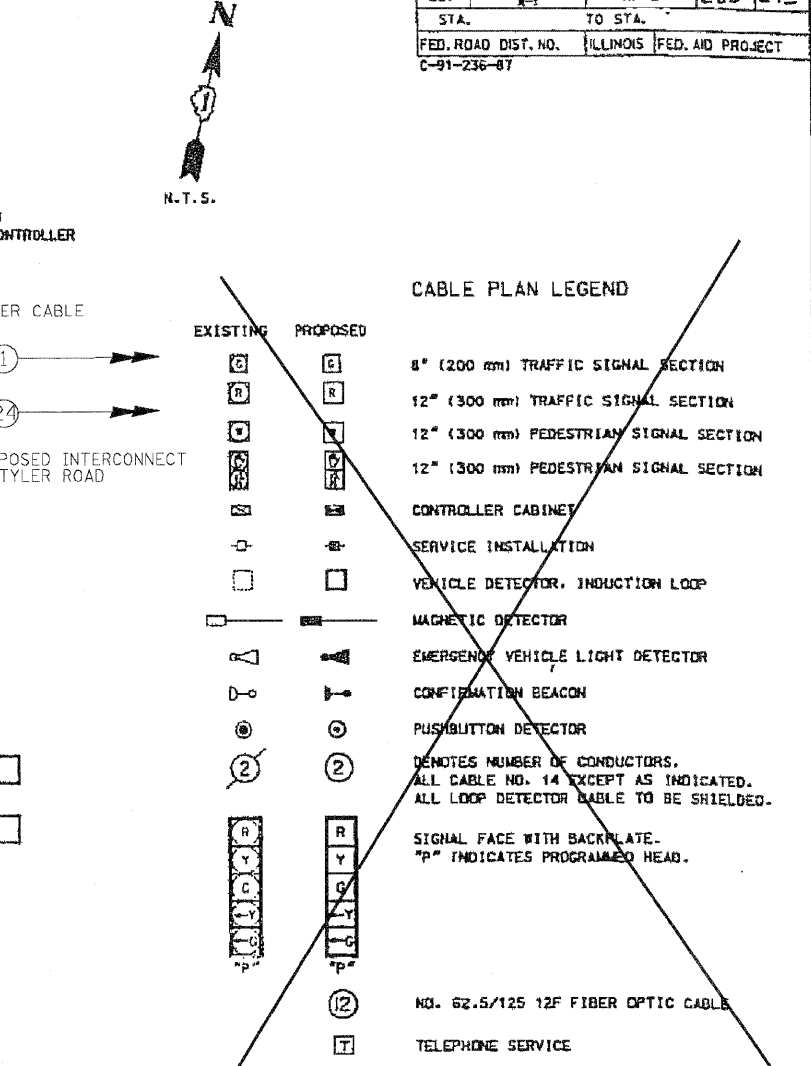
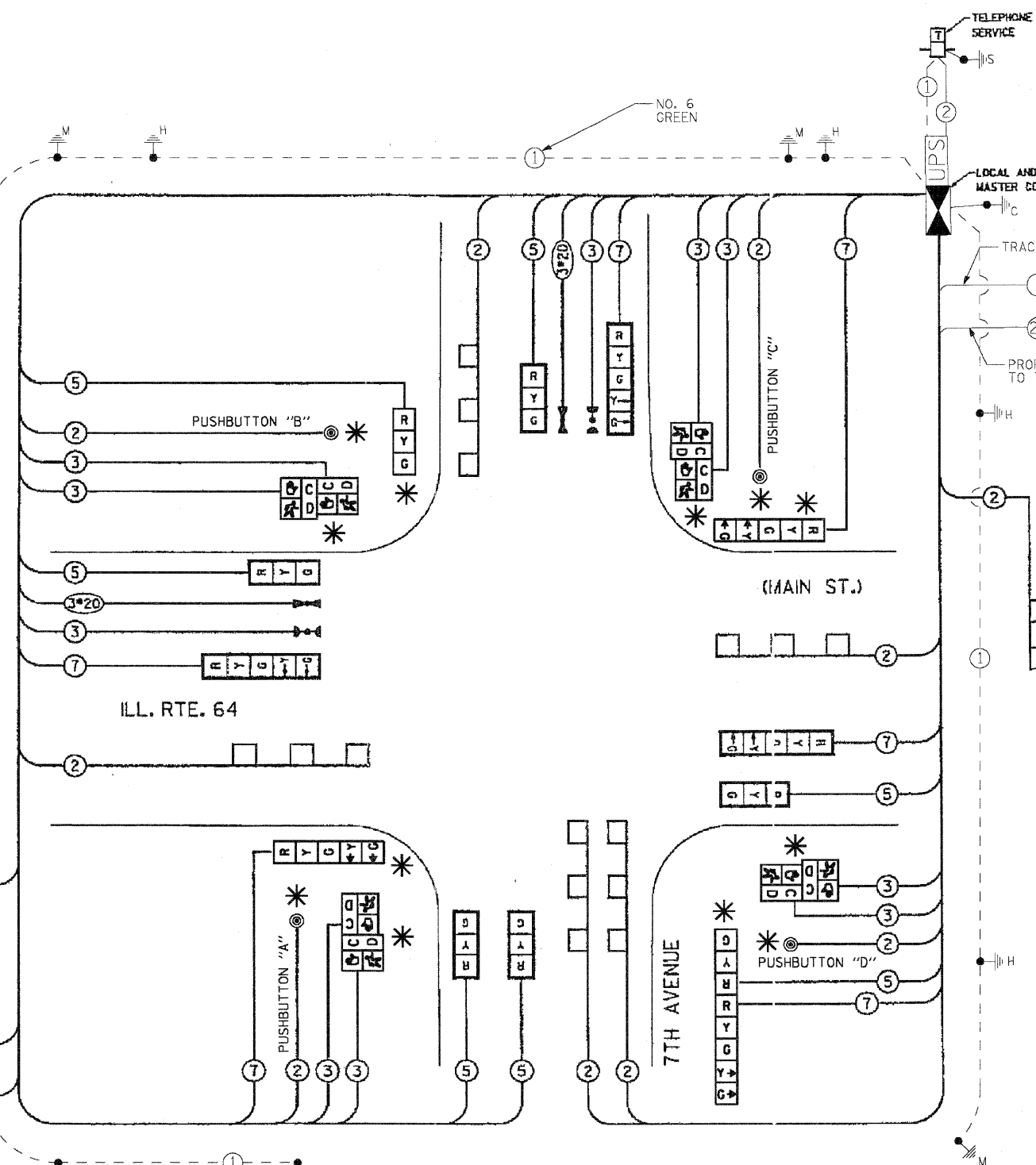
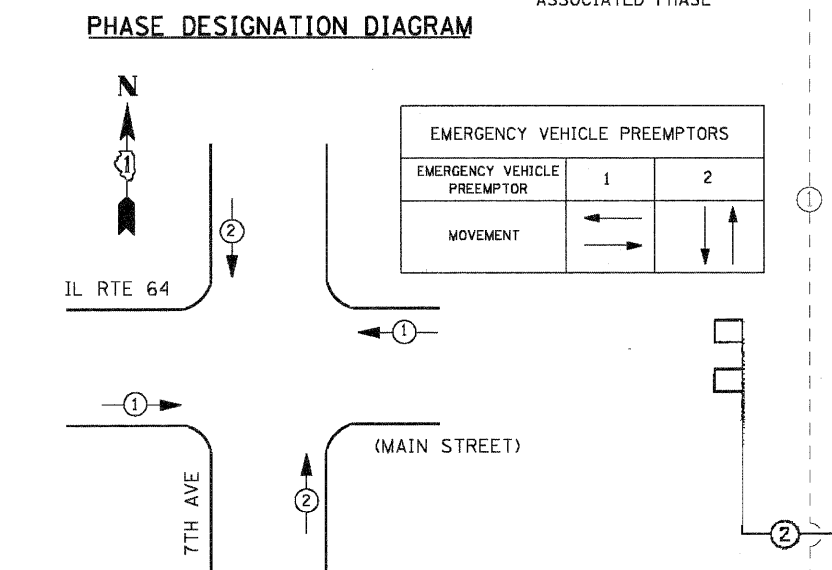
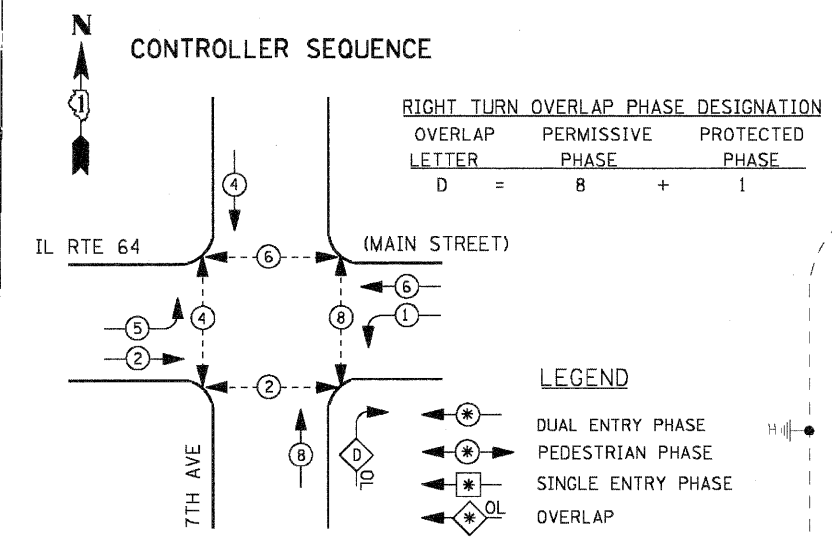
ILL. RTE. 64 (MAIN ST.) AT 7TH AVENUE
 ST. CHARLES, ILLINOIS

SCALE: 1/2" = 25'
 DATE: 7-24-96

DRAWN BY: FPB
 CHECKED BY: ABR / CAZ

CHRISTOPHER B. BURKE ENGINEERING LTD.
 9575 West Higgins Road, Suite 600
 Rosemont, Illinois 60018
 (847) 823-0500

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
307	11272-21 & 1191	KANE	265	243
STA. TO STA.		ILLINOIS FED. AID PROJECT		
C-91-236-07				



THE END OF THE TRACER CABLE SHALL BE TIED TO THE CABLE HOOK IN THE DOUBLE HANDHOLE CLOSEST TO THE CONTROLLER FOUNDATION.

INTERCONNECT TO ILL. RTE. 25 (5TH AVE.)

No. 62.5/125 12F FIBER OPTIC CABLE

No. 6 GREEN

* SCHEDULE OF QUANTITIES

ITEM	UNIT	QUANTITY
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	1
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	2
SIGNAL HEAD, LED, 2-FACE, 1-3 SECTION, 1-5 SECTION, BRACKET MOUNTED	EACH	1
PEDESTRIAN SIGNAL HEAD, LED, 2-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	4
PEDESTRIAN PUSH-BUTTON	EACH	4
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1

NOTE:

- PUSHBUTTON "A" SHALL PLACE A CALL IN PHASES 2 AND 4.
- PUSHBUTTON "B" SHALL PLACE A CALL IN PHASES 4 AND 6.
- PUSHBUTTON "C" SHALL PLACE A CALL IN PHASES 6 AND 8.
- PUSHBUTTON "D" SHALL PLACE A CALL IN PHASES 2 AND 8.

*** INDICATES WORK FOR CONTRACT 60R33**

RESTORATION OF WORK AREA. RESTORATION OF THE TRAFFIC SIGNAL WORK AREA SHALL BE INCLUDED IN THE RELATED PAY ITEM SUCH AS FOUNDATION, CONDUIT, HANDHOLE, TRENCH AND BACKFILL, ETC., AND NO EXTRA COMPENSATION SHALL BE ALLOWED. ALL ROADWAY SURFACES SUCH AS SHOULDERS, MEDIAN, SIDEWALKS, PAVEMENT ETC. SHALL BE REPLACED IN KIND. ALL DAMAGE TO MOWED LAWNS SHALL BE REPLACED WITH AN APPROVED SOD, AND ALL DAMAGE TO UNMOWED FIELDS SHALL BE SEEDD IN ACCORDANCE WITH STANDARD SPECIFICATIONS 252 AND 250 RESPECTIVELY.

FILE NAME =	USER NAME = _USERNAME_	DESIGNED - DW	REVISED -
k:\proj\proj\11043\design\cad\sheet files\11043cab7\av.dgn		DRAWN - JDH	REVISED -
PLOT SCALE = 20.0000" / 1"		CHECKED - KMM	REVISED -
PLOT DATE = 12/14/2011		DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

CHRISTOPHER B. BURKE ENGINEERING LTD.
2575 West Higgins Road, Suite 600
Rosemont, Illinois 60018
18471 823-0500

**IL ROUTE 64 (MAIN ST) AT 7th AVENUE
CABLE MODERNIZATION PLAN**

SCALE: N.T.S. SHEET NO. 2 OF 2 SHEETS STA. TO STA.

REVISIONS

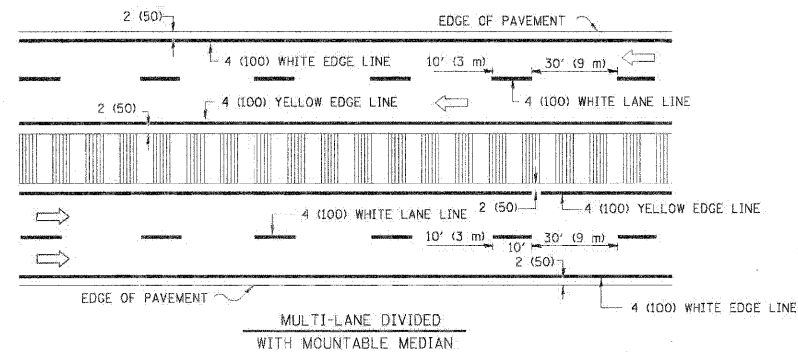
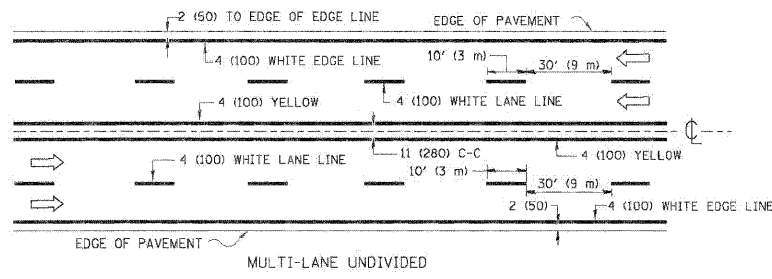
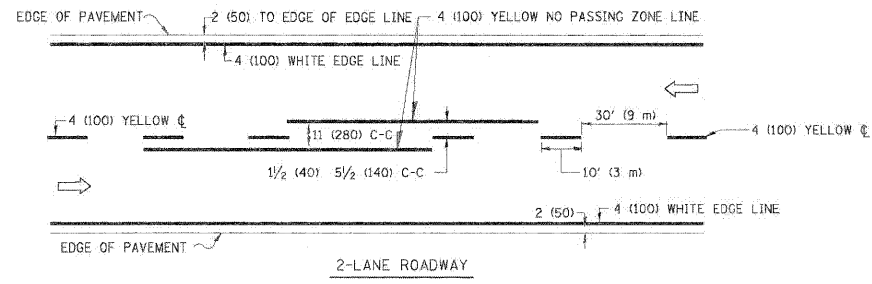
NAME	DATE
RWA	08/2011

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
**SCHEDULE OF QUANTITIES
AND CABLE PLAN**

ILL. RTE. 64 (MAIN ST.) AT 7TH AVENUE
ST. CHARLES, ILLINOIS

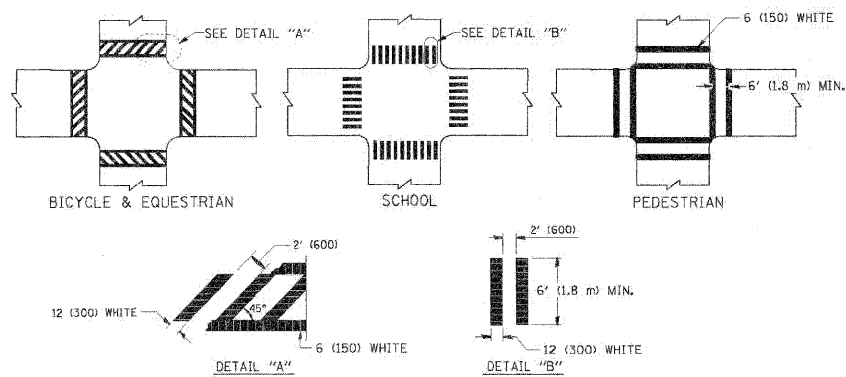
SCALE: N.T.S. DATE: 7-24-96 DRAWN BY: FPB / FCP CHECKED BY: ABR / CMZ

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
307	2011-100-TS	KANE	23	22
CONTRACT NO. 60R33				
ILLINOIS FED. AID PROJECT				

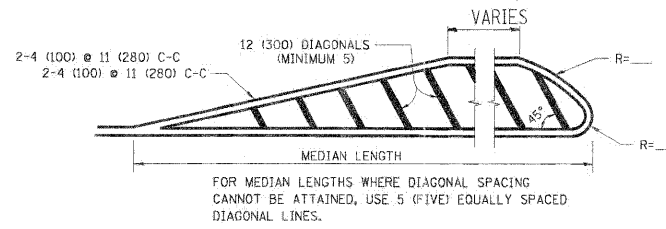
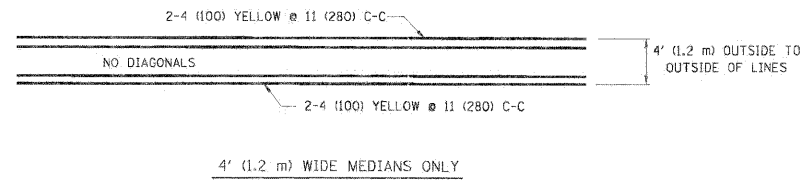


NOTE: MEDIANS WITH BARRIER CURB DO NOT REQUIRE AN EDGE LINE

TYPICAL LANE AND EDGE LINE MARKING

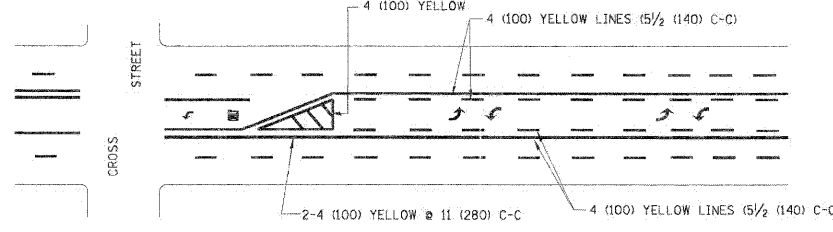


TYPICAL CROSSWALK MARKING

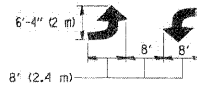


DIAGONAL LINE SPACING: 50' (15 m) C-C (LESS THAN 30MPH (50 km/h))
75' (25 m) C-C 30MPH (50 km/h) TO 45MPH (70 km/h)
150' (45 m) C-C (MORE THAN 45MPH (70 km/h))

MEDIANS OVER 4' (1.2 m) WIDE

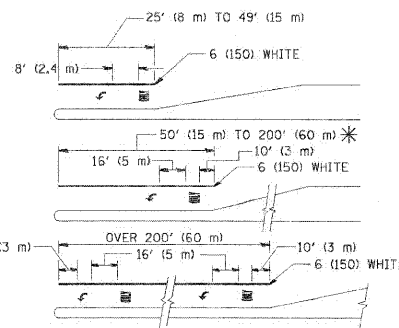


A MINIMUM OF TWO PAIRS OF TURN ARROWS SHALL BE USED, WHITE IN COLOR. ADDITIONAL PAIRS SHALL BE PLACED AT 200' (60 m) TO 300' (90 m) INTERVALS.



MEDIAN WITH TWO-WAY LEFT TURN LANE

TYPICAL PAINTED MEDIAN MARKING

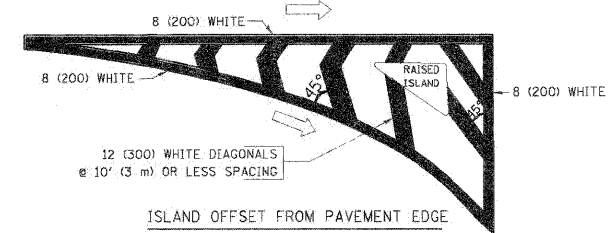


FULL SIZE LETTERS 8' (2.4 m) AND ARROWS SHALL BE USED.
* AREA = 15.6 SQ. FT. (1.5 m²) ONLY AREA = 20.8 SQ. FT. (1.9 m²)

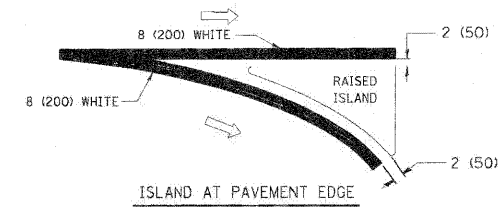
* TURN LANES IN EXCESS OF 400' (120 m) IN LENGTH MAY HAVE AN ADDITIONAL SET OF ARROW - "ONLY" INSTALLED MIDWAY BETWEEN THE OTHER TWO SETS OF ARROW - "ONLY".

TYPICAL LEFT (OR RIGHT) TURN LANE

TYPICAL TURN LANE MARKING



ISLAND OFFSET FROM PAVEMENT EDGE



ISLAND AT PAVEMENT EDGE

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 1/2 (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' (2.4 m))	SOLID	WHITE	SEE TYPICAL TURN LANE MARKING DETAIL
TWO WAY LEFT TURN MARKING	2 @ 4 (100) EACH DIRECTION 8' (2.4 m) LEFT ARROW	SKIP-DASH AND SOLID IN PAIRS	YELLOW WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE FOR SKIP-DASH; 5 1/2 (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 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.
GORE 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 STATE 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.