

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2588 & 3573	12-00067-00-TL	DUPAGE	24	1
ILLINOIS			CONTRACT NO. 63867	

DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

**PLANS FOR PROPOSED
FEDERAL AID HIGHWAY**

**FAU 3573 (CENTER DRIVE)/FAU 2588 (JANES AVENUE)
PLAZA DRIVE TO 71st STREET (FAU 1533)
TRAFFIC SIGNAL MODERNIZATION**

SECTION: 12-00067-00-TL

PROJECT: M-4003(484)

VILLAGE OF WOODRIDGE

DUPAGE COUNTY

C-91-553-12



LOCATION OF SECTION INDICATED THUS: - [black rectangle]

FOR INDEX OF SHEETS, SEE SHEET NO. 2

TRAFFIC DATA:

ADT:
CENTER DRIVE 6600 (2012), 7000 (2040)
JANES AVENUE = 6250 (2011), 7000 (2040)

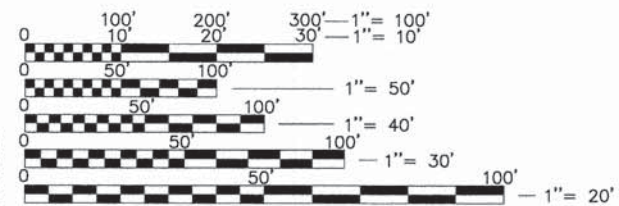
POSTED SPEED LIMIT:

CENTER DRIVE = 30 MPH
JANES AVENUE = 30 MPH

DESIGN DESIGNATION:

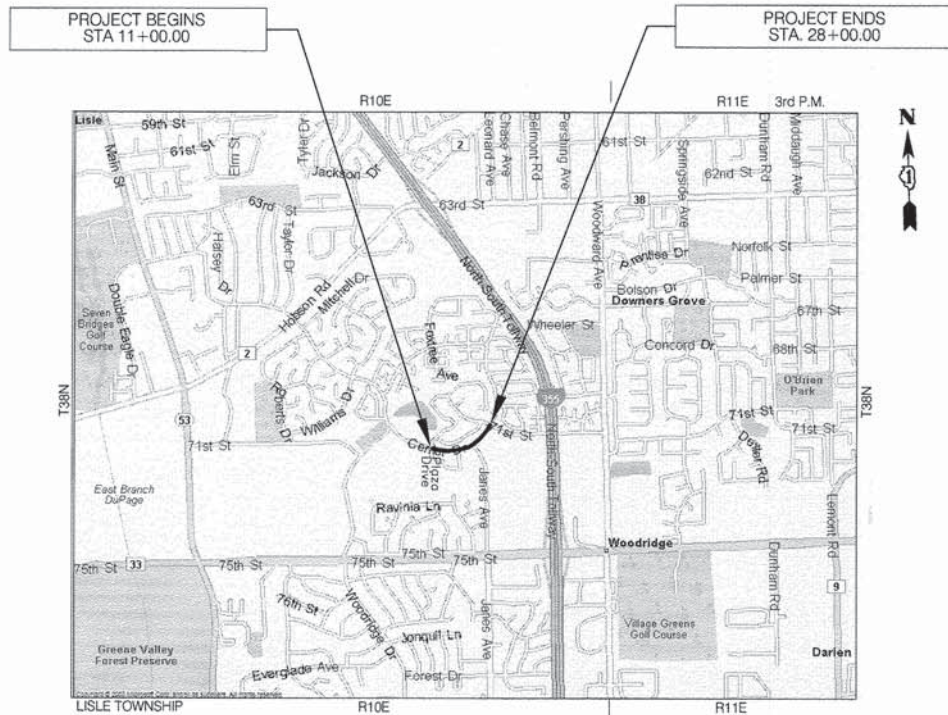
CENTER DRIVE = COLLECTOR-URBAN
JANES AVENUE = COLLECTOR-URBAN

PROJECT LOCATED IN
VILLAGE OF WOODRIDGE



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



LOCATION MAP
SCALE: NTS

GROSS & NET LENGTH OF PROJECT = 1,700 FT. = (0.32 MILES)

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

APPROVED: December 10th 2014
[Signature]
Village of Woodridge, Director of Public Works

PASSED: DECEMBER 23 2014
[Signature] CHRISTOPHER HOYT
District 1 Engineer of Local Roads & Streets

Releasing for Bid
Based on Limited Review December 23 2014
[Signature]
Deputy Director of Highways, Region 7 Engineer

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JAMES J. BENES & ASSOCIATES, INC.

JAMES J. BENES & ASSOCIATES
CONSULTING ENGINEERS
950 WARRENVILLE ROAD, SUITE 101
LISLE, IL 60532
(630) 719-7570

SIGNATURE: *[Signature]*
DATE: 12/10/2014
IL LICENSE NO. 062-039438
EXP. DATE: NOVEMBER 30, 2015
FIELD: JAMES J. BENES AND ASSOCIATES, INC.
CIVIL ENGINEERING

FEDERAL AID PROGRAM ENGINEER: FAWAD AQEEL, P.E. (847) 705-4021, SCHAUMBURG, IL
CONSULTANT: JAMES J. BENES AND ASSOCIATES, INC. (630) 719-7570

CONTRACT NO. 63867

SUMMARY OF QUANTITIES				CONSTRUCTION TYPE CODE			
CODE NO.	ITEM	UNIT	TOTAL QUANTITY	TRAFFIC SIGNALS CENTER @ PLAZA	TRAFFIC SIGNALS CENTER @ JANES	TRAFFIC SIGNALS JANES @ 71ST	TRAFFIC SIGNAL INTERCONNECT
				75% FED 25% VILLAGE 0021	75% FED 25% VILLAGE 0021	75% FED 25% VILLAGE 0021	75% FED 25% VILLAGE 0021
* 20201200	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	CU YD	26			26	
* 40201000	AGGREGATE FOR TEMPORARY ACCESS	TON	44			44	
* 42400200	PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH	SQ FT	715			715	
* 42400800	DETECTABLE WARNINGS	SQ FT	118			118	
* 44000500	COMBINATION CURB AND GUTTER REMOVAL	FOOT	122			122	
* 44000600	SIDEWALK REMOVAL	SQ FT	715			715	
* 44201670	CLASS D PATCHES, TYPE 1, 2 INCH	SQ YD	30	10	10	10	
* 60603800	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12	FOOT	46			46	
* 60605000	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24	FOOT	76			76	
67100100	MOBILIZATION	L SUM	1	0.25	0.25	0.25	0.25
70102630	TRAFFIC CONTROL AND PROTECTION - STANDARD 701601	L SUM	1	0.25	0.25	0.25	0.25
70102635	TRAFFIC CONTROL AND PROTECTION - STANDARD 701701	L SUM	1	0.25	0.25	0.25	0.25
70102640	TRAFFIC CONTROL AND PROTECTION - STANDARD 701801	L SUM	1	0.25	0.25	0.25	0.25
70106800	CHANGEABLE MESSAGE SIGN	CAL MO	6	2	2	2	
* 78000400	THERMOPLASTIC PAVEMENT MARKINGS-LINE 6"	FOOT	108			108	
* 78000600	THERMOPLASTIC PAVEMENT MARKINGS-LINE 12"	FOOT	420			420	
* 78000650	THERMOPLASTIC PAVEMENT MARKINGS-LINE 24"	FOOT	121			121	
80500010	SERVICE INSTALLATION - GROUND MOUNTED	EACH	3	1	1	1	
81028200	UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	1,147	29	115	43	960
81028210	UNDERGROUND CONDUIT, GALVANIZED STEEL, 2 1/2" DIA.	FOOT	399	139	165	95	
81028220	UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	53	0	12	41	
81028240	UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	21	7	7	7	
81028720	UNDERGROUND CONDUIT, COILABLE NONMETALLIC CONDUIT, 1" DIA.	FOOT	200	22	100	78	
81400100	HANDHOLE	EACH	4	1	1	0	2
81400300	DOUBLE HANDHOLE	EACH	1	0	0	1	
85000200	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	3	1	1	1	
86400100	TRANSCEIVER-FIBER OPTIC	EACH	3	0	0	0	3
87100020	FIBER OPTIC CABLE IN CONDUIT, NO. 62.5/125, MM12F SM12F	FOOT	1,681	0	0	0	1,681
87300010	GROUNDING EXISTING HANDHOLE FRAME AND COVER	EACH	21	8	6	7	
87300925	ELECTRIC CABLE IN CONDUIT, TRACER NO. 14 1C	FOOT	1,618	0	0	0	1,618
87301215	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	3,436	1,338	673	1,425	
87301225	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	4,690	1,805	1,101	1,784	
87301245	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	4,973	1,852	1,787	1,334	
87301255	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	2,353	474	497	1,382	
87301305	ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	5,876	2,162	1,771	1,943	
87301805	ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C	FOOT	90	30	30	30	
87301900	ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	1,707	662	541	504	
87502440	TRAFFIC SIGNAL POST, GALVANIZED STEEL 10 FT.	EACH	4	2	1	1	
87502500	TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EACH	9	4	2	3	
87502520	TRAFFIC SIGNAL POST, GALVANIZED STEEL 18 FT.	EACH	3	1	2	0	
87602000	PEDESTRIAN PUSH-BUTTON POST	EACH	1	0	0	1	
87700170	STEEL MAST ARM ASSEMBLY AND POLE, 26 FT.	EACH	2		1	1	
87700190	STEEL MAST ARM ASSEMBLY AND POLE, 30 FT.	EACH	1			1	
87700200	STEEL MAST ARM ASSEMBLY AND POLE, 32 FT.	EACH	2		1	1	
87700210	STEEL MAST ARM ASSEMBLY AND POLE, 34 FT.	EACH	1	1			
87700220	STEEL MAST ARM ASSEMBLY AND POLE, 36 FT.	EACH	1	1			
87700270	STEEL MAST ARM ASSEMBLY AND POLE, 46 FT.	EACH	1			1	

SUMMARY OF QUANTITIES				CONSTRUCTION TYPE CODE			
CODE NO.	ITEM	UNIT	TOTAL QUANTITY	TRAFFIC SIGNALS CENTER @ PLAZA	TRAFFIC SIGNALS CENTER @ JANES	TRAFFIC SIGNALS JANES @ 71ST	TRAFFIC SIGNAL INTERCONNECT
				75% FED 25% VILLAGE 0021	75% FED 25% VILLAGE 0021	75% FED 25% VILLAGE 0021	75% FED 25% VILLAGE 0021
87800100	CONCRETE FOUNDATION, TYPE A	FOOT	60	24	20	16	
87800400	CONCRETE FOUNDATION, TYPE E 30-INCH DIAMETER	FOOT	38		14	24	
87900200	DRILL EXISTING HANDHOLE	EACH	31	8	12	8	3
88030020	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED	EACH	12	4	4	4	
88030050	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	5	2	3	0	
88030100	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	6	2	0	4	
88030110	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED	EACH	7	2	1	4	
88030210	SIGNAL HEAD, LED, 2-FACE, 3-SECTION, BRACKET MOUNTED	EACH	3	2	1	0	
88030240	SIGNAL HEAD, LED, 2-FACE, 1 3-SECTION 1 5-SECTION, BRACKET MOUNTED	EACH	7	2	1	4	
88102717	PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	14	8	2	4	
88102747	PEDESTRIAN SIGNAL HEAD, LED, 2-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	3	0	1	2	
88200100	TRAFIC SIGNAL BACKPLATE	EACH	19	6	5	8	
88500100	INDUCTIVE LOOP DETECTOR	EACH	25	9	7	9	
88600100	DETECTOR LOOP, TYPE 1	FOOT	795	132	363	300	
88700200	LIGHT DETECTOR	EACH	6	2	2	2	
88700300	LIGHT DETECTOR AMPLIFIER	EACH	3	1	1	1	
88800100	PEDESTRIAN PUSH-BUTTON	EACH	20	8	4	8	
89502220	MODIFY EXISTING CONCRETE FOUNDATION	EACH	3	1	1	1	
89502300	REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	16,955	5,855	4,139	6,961	
89502375	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	3	1	1	1	
89502385	REMOVE EXISTING CONCRETE FOUNDATION	EACH	7	3	3	1	
X2501020	SEEDING, CLASS 2A (SPECIAL)	ACRE	0.37	0.10	0.10	0.10	0.07
X8570228	FULL-ACTUATED CONTROLLER AND TYPE IV CABINET, SPECIAL	EACH	2	1		1	
X8570231	FULL-ACTUATED CONTROLLER AND TYPE V CABINET, SPECIAL	EACH	1		1		
X8600105	MASTER CONTROLLER (SPECIAL)	EACH	1		0		1
X8730250	ELECTRIC CABLE IN CONDUIT NO. 20 3/C, TWISTED, SHIELDED	FOOT	1,119	402	400	317	

* DENOTES SPECIALTY ITEMS

HOT-MIX ASPHALT MIXTURE REQUIREMENTS	
MIXTURE TYPE	AIR VOIDS @Ndes
PATCHING	
CLASS D PATCHES, 2" (HMA SURFACE IL-9.5mm)	4% @ 70 Gyr.

NOTES:

- 1) THE UNIT WEIGHT USED TO CALCULATE ALL HMA QUANTITIES IS 112 LB/SY/IN.
- 2) THE "AC TYPE" FOR POLYMERIZED HMA MIXES SHALL BE "SBS/SBR PG 70-22" AND FOR NON-POLYMERIZED HMA THE "AC TYPE" SHALL BE "PG 64-22" UNLESS MODIFIED BY DISTRICT ONE SPECIAL PROVISIONS. FOR "PERCENT OF RAP" SEE DISTRICT ONE SPECIAL PROVISIONS.

LEGEND
* -DENOTES SPECIALTY ITEM

JJB JAMES J. BENES & ASSOCIATES, INC.
950 Warrenville Road, Suite 101, Lisle, Illinois 60532
Tel. (630) 719-7570 - Fax (630) 719-7589

FILE NAME =	USER NAME =	DESIGNED -- SJG	REVISED --
		DRAWN -- SMP	REVISED --
	PLOT SCALE =	CHECKED -- SJG	REVISED --
	PLOT DATE =	DATE -- 11-25-2014	REVISED --

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

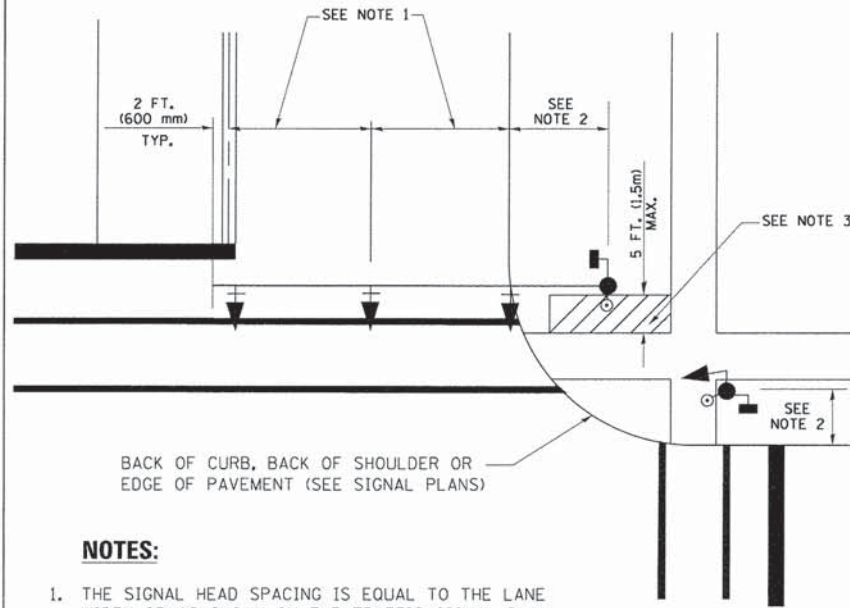
SCALE: N/A SHEET NO. OF SHEETS STA. TO STA.

F.A.U. RTE. 2588 & 3573	SECTION 12-00067-00-TL	COUNTY DuPAGE	TOTAL SHEETS 24	SHEET NO. 3
CONTRACT NO. 63867			ILLINOIS FED. AID PROJECT	

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															
UNINTERRUPTABLE POWER SUPPLY				JUNCTION BOX				FIBER OPTIC CABLE NO. 62.5/125, MM12F SM12F															
SERVICE INSTALLATION, (P) POLE OR (G) GROUND MOUNT				UNDERGROUND CONDUIT, GALVANIZED STEEL (UC)				FIBER OPTIC CABLE NO. 62.5/125, MM12F SM24F															
TELEPHONE CONNECTION (P) POLE OR (G) GROUND MOUNT				TEMPORARY SPAN WIRE, TETHER WIRE, AND CABLE				FIBER OPTIC CABLE NO. 62.5/125, MM12F SM24F															
STEEL MAST ARM ASSEMBLY AND POLE				COMMON TRENCH				GROUND ROD AT (C) CONTROLLER, (H) HANDHOLE, (P) POST, (M) MAST ARM, OR (S) SERVICE															
ALUMINUM MAST ARM ASSEMBLY AND POLE				COILABLE NONMETALLIC CONDUIT (EMPTY)				CONTROLLER CABINET AND FOUNDATION TO BE REMOVED															
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH LUMINAIRE				SYSTEM ITEM				STEEL MAST ARM POLE AND FOUNDATION TO BE REMOVED															
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH PTZ CAMERA				INTERSECTION ITEM				ALUMINUM MAST ARM POLE AND FOUNDATION TO BE REMOVED															
SIGNAL POST				REMOVE ITEM				STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH LUMINAIRE AND FOUNDATION TO BE REMOVED															
TEMPORARY WOOD POLE (CLASS 5 OR BETTER) 45 FOOT (13.7m) MINIMUM				RELOCATE ITEM				SIGNAL POST AND FOUNDATION TO BE REMOVED															
GUY WIRE				ABANDON ITEM				INTERSECTION & SAMPLING (SYSTEM) DETECTOR															
SIGNAL HEAD				12" (300mm) TRAFFIC SIGNAL SECTION				SAMPLING (SYSTEM) DETECTOR															
SIGNAL HEAD CONSTRUCTION STAGES (NUMBERS INDICATE THE CONSTRUCTION STAGE)				12" (300mm) RED WITH 8" (200mm) YELLOW AND GREEN TRAFFIC SIGNAL FACE				QUEUE DETECTOR															
SIGNAL HEAD WITH BACKPLATE				SIGNAL FACE				PREFORMED QUEUE DETECTOR															
SIGNAL HEAD OPTICALLY PROGRAMMED				SIGNAL FACE WITH BACKPLATE, "P" INDICATES PROGRAMMED HEAD				PREFORMED INTERSECTION AND SAMPLING (SYSTEM) DETECTOR															
FLASHER INSTALLATION (S DENOTES SOLAR POWER)				"RB" INDICATES REFLECTIVE BACKPLATE				PREFORMED SAMPLING (SYSTEM) DETECTOR															
PEDESTRIAN SIGNAL HEAD				12" (300mm) PEDESTRIAN SIGNAL HEAD WALK/DON'T WALK SYMBOL				<h2 style="margin: 0;">RAILROAD SYMBOLS</h2> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 50%;">EXISTING</th> <th style="width: 50%;">PROPOSED</th> </tr> </thead> <tbody> <tr> <td></td> <td></td> </tr> <tr> <td></td> <td></td> </tr> <tr> <td></td> <td></td> </tr> <tr> <td></td> <td></td> </tr> <tr> <td></td> <td></td> </tr> </tbody> </table>				EXISTING	PROPOSED										
EXISTING	PROPOSED																						
PEDESTRIAN PUSHBUTTON DETECTOR				12" (300mm) PEDESTRIAN SIGNAL HEAD INTERNATIONAL SYMBOL, OUTLINED																			
ACCESSIBLE PEDESTRIAN PUSHBUTTON DETECTOR				12" (300mm) PEDESTRIAN SIGNAL HEAD INTERNATIONAL SYMBOL, SOLID																			
ILLUMINATED SIGN "NO LEFT TURN"				PEDESTRIAN SIGNAL HEAD, INTERNATIONAL SYMBOL, WITH COUNTDOWN TIMER																			
ILLUMINATED SIGN "NO RIGHT TURN"				RADIO INTERCONNECT																			
DETECTOR LOOP, TYPE 1				RADIO REPEATER																			
PREFORMED DETECTOR LOOP				DENOTES NUMBER OF CONDUCTORS, ELECTRIC CABLE NO. 14, UNLESS NOTED OTHERWISE, ALL DETECTOR LOOP CABLE TO BE SHIELDED																			
MICROWAVE VEHICLE SENSOR				GROUND CABLE IN CONDUIT NO. 6 SOLID COPPER (GREEN)																			
VIDEO DETECTION CAMERA																							
VIDEO DETECTION ZONE																							
PAN, TILT, ZOOM CAMERA																							
WIRELESS DETECTOR SENSOR																							
WIRELESS ACCESS POINT																							

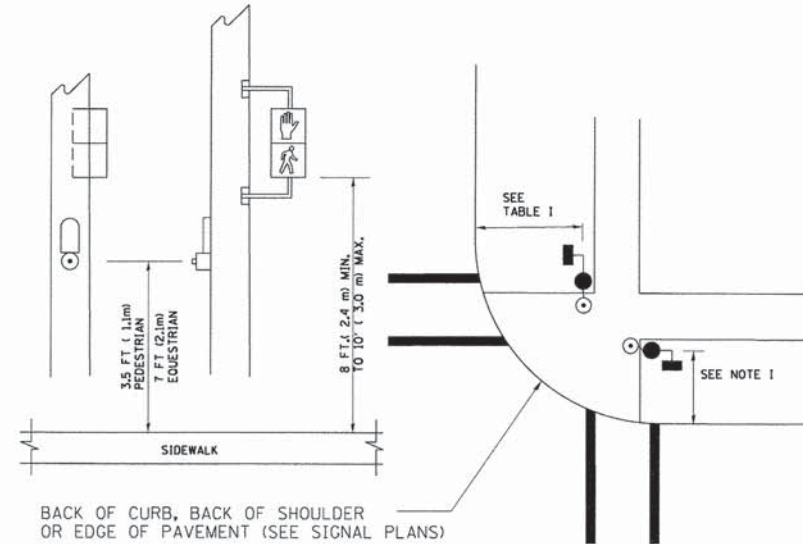
**TRAFFIC SIGNAL MAST ARM AND SIGNAL POST
MAST ARM MOUNTED SIGNALS IN EXISTING, PROPOSED OR
FUTURE SIDEWALK/BICYCLE PATH AREA. INTERSECTION SHOWN
WITH PEDESTRIAN SIGNALS AND PEDESTRIAN PUSHBUTTON DETECTORS.**



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."

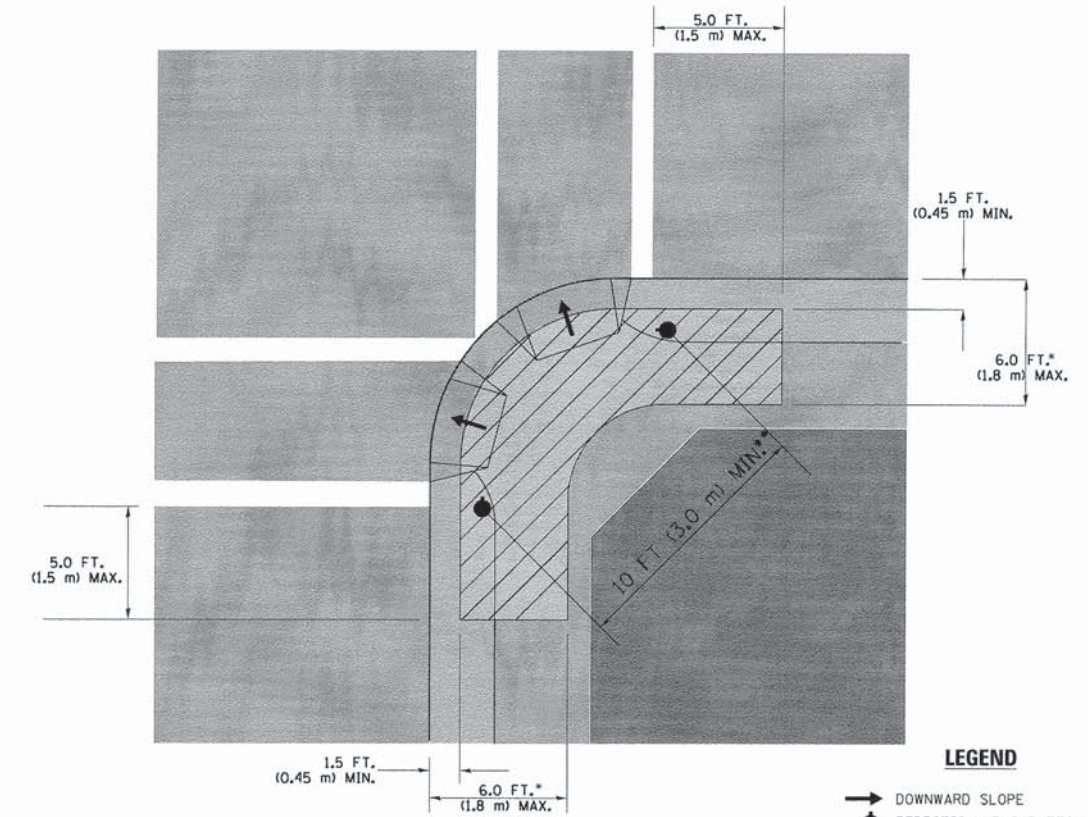
**PEDESTRIAN SIGNAL POST
AND
PEDESTRIAN PUSH BUTTON POST**



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:

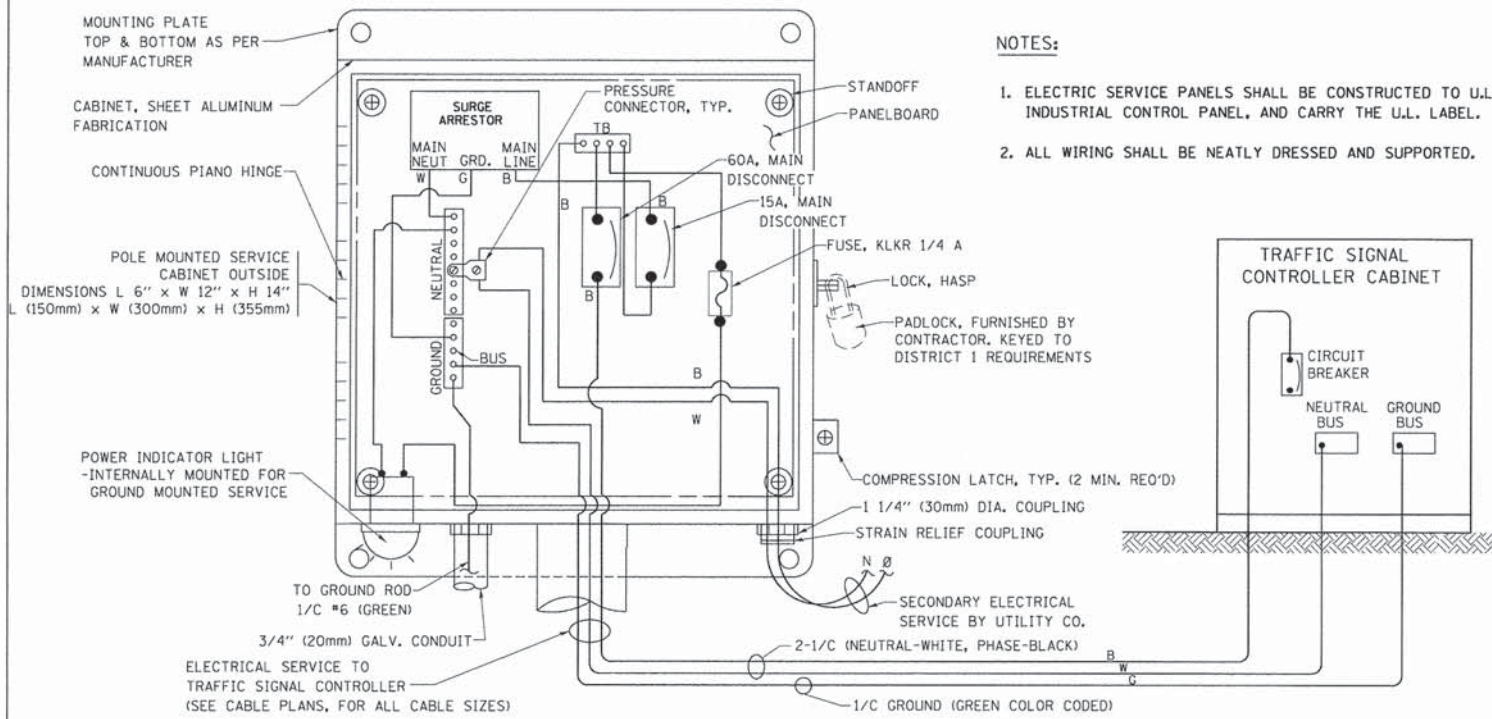
1. PEDESTRIAN SIGNAL HEADS SHALL BE MOUNTED WITH THE BOTTOM OF THE SIGNAL HOUSING INCLUDING BRACKETS NOT LESS THAN 8 FT (2.4 m) OR MORE THAN 10 FT (3 m) ABOVE SIDEWALK LEVEL, AND SHALL BE POSITIONED AND ADJUSTED TO PROVIDE MAXIMUM VISIBILITY AT THE BEGINNING OF THE CONTROLLED CROSSWALK.
2. THE BOTTOM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

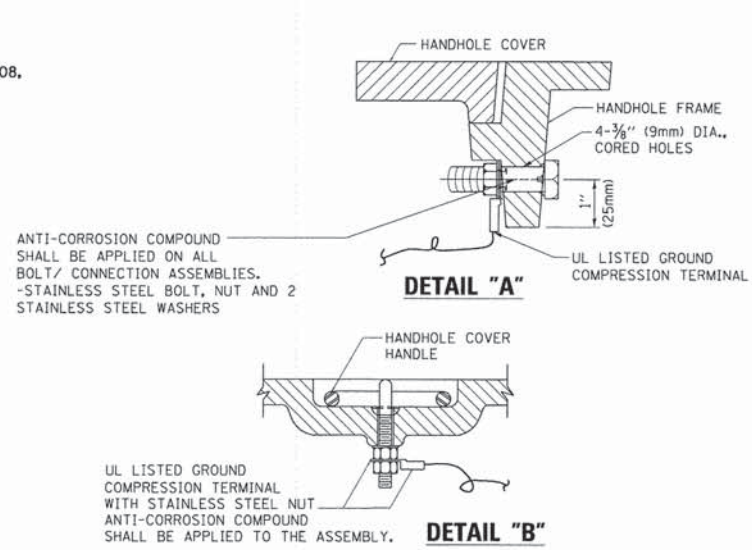
TRAFFIC SIGNAL EQUIPMENT	COMBINATION CONCRETE CURB AND GUTTER (MINIMUM DISTANCE FROM BACK OF CURB TO CENTERLINE OF FOUNDATION)	SHOULDER/NON-CURBED AREA (MINIMUM DISTANCE FROM EDGE OF PAVEMENT TO CENTERLINE OF FOUNDATION)
TRAFFIC SIGNAL MAST ARM POLE	6 FT (1.8m)	SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10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

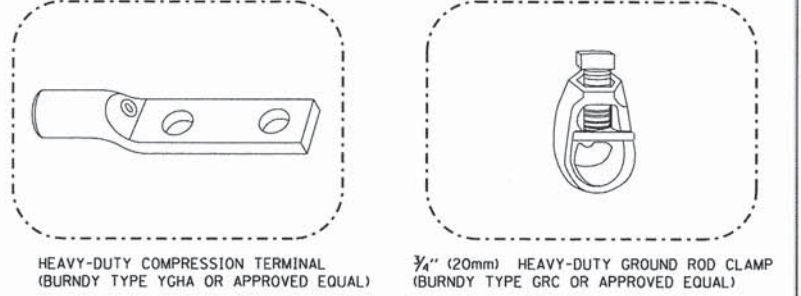
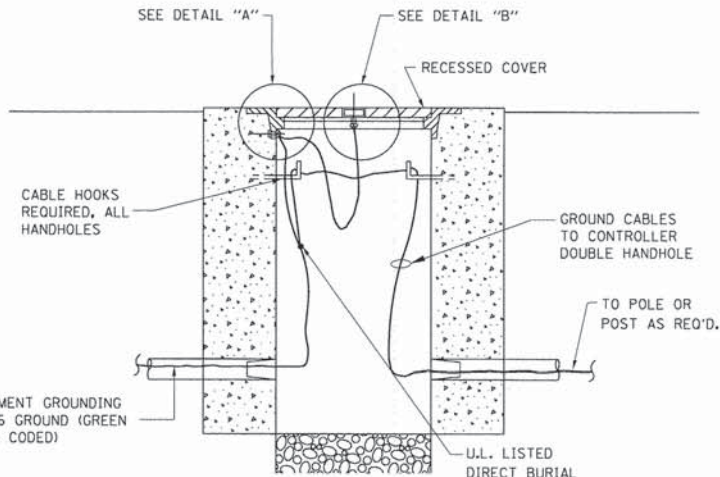
1. CONTACT THE "AREA TRAFFIC SIGNAL MAINTENANCE AND OPERATIONS ENGINEER" FOR ASSISTANCE IN LOCATING THE TRAFFIC SIGNAL EQUIPMENT WHEN THERE ARE CONFLICTS WITH DITCHES OR THE MINIMUM OFFSET DISTANCES CANNOT BE MET.
2. MINIMUM DISTANCE FROM THE BACK OF CURB TO THE ROADWAY SIDE OF THE FOUNDATION.
3. MINIMUM 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.



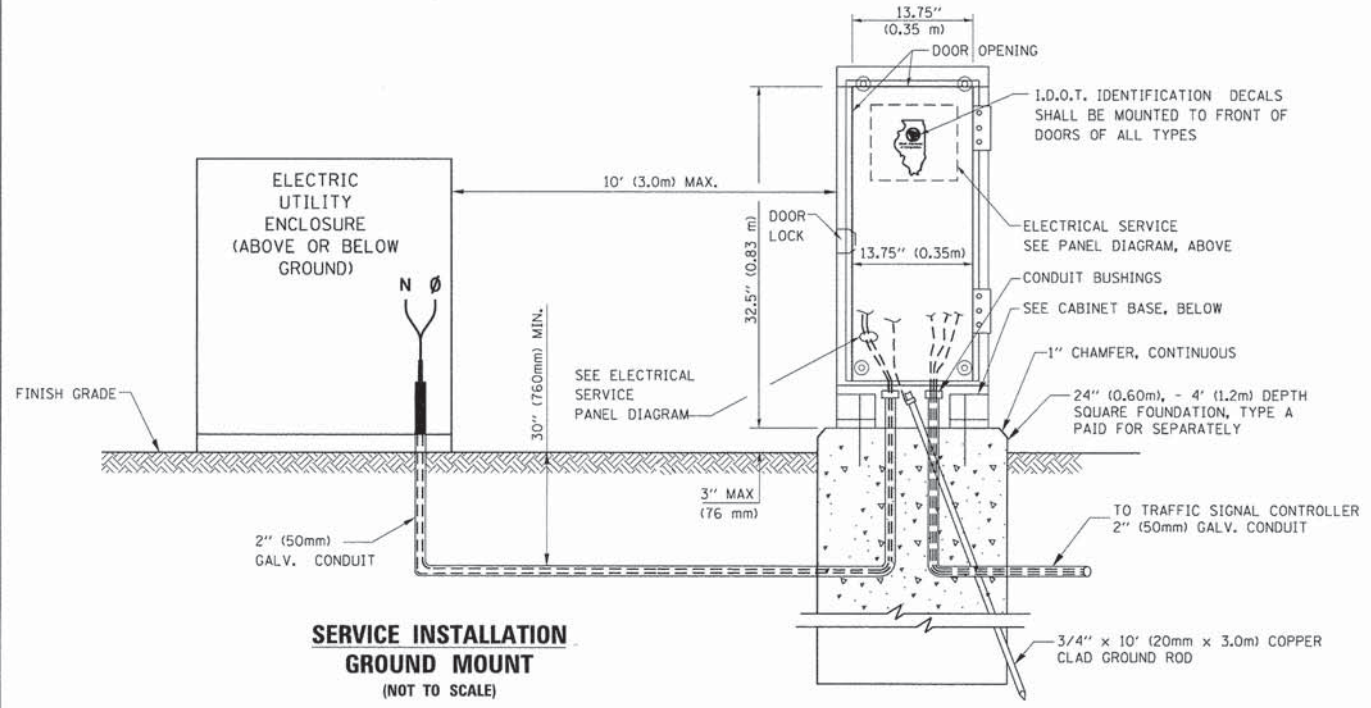
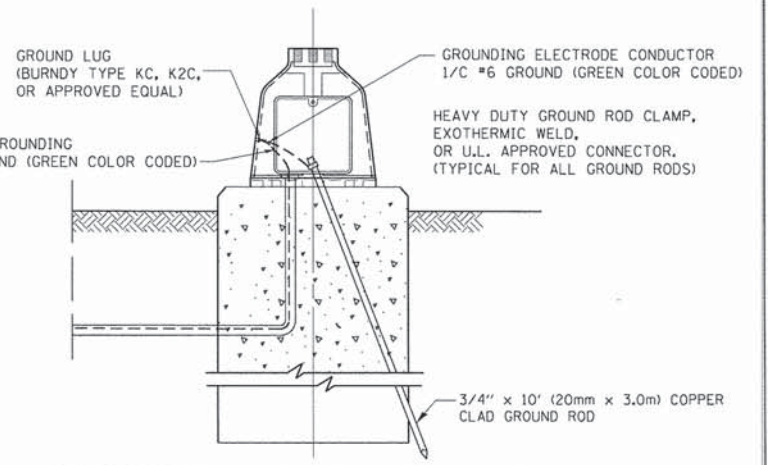
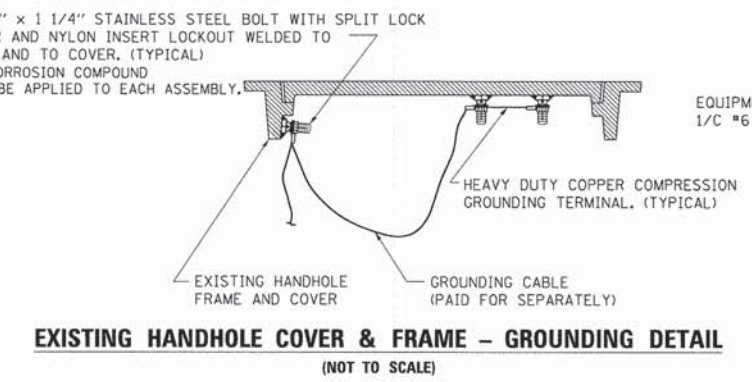
ELECTRICAL SERVICE – PANEL DIAGRAM (TYPICAL FOR POLE AND GROUND MOUNTED SERVICE) SERVICE INSTALLATION POLE MOUNT (SHOWN) (NOT TO SCALE)



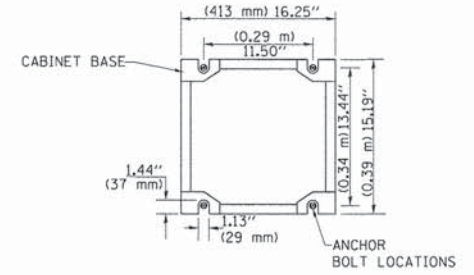
- NOTES:**
- GROUNDING SYSTEM**
1. THE GROUNDING SYSTEM SHALL CONSIST OF AN INSULATED CONDUCTOR TYPE XLP, NO. 6 A.W.G., STRANDED COPPER TO BE INSTALLED IN RACEWAYS. THE GROUNDING CABLE SHALL BE INSTALLED IN A CONTINUOUS MANNER AS SHOWN ON THE CABLE PLAN PROVIDED. ALL GROUNDING CONDUCTORS SHALL BE BONDED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



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



CABINET – BASE BOLT PATTERN (NOT TO SCALE)

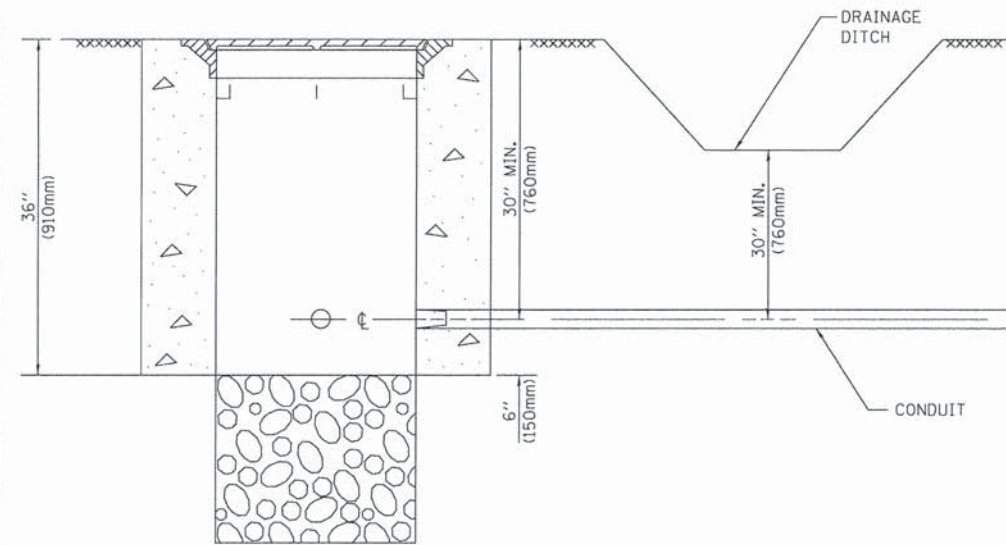


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		DATE - 10-28-09	REVISED -

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

DISTRICT ONE			
STANDARD TRAFFIC SIGNAL DESIGN DETAILS			
SCALE: NONE	SHEET NO. 4 OF 7 SHEETS	STA.	TO STA.

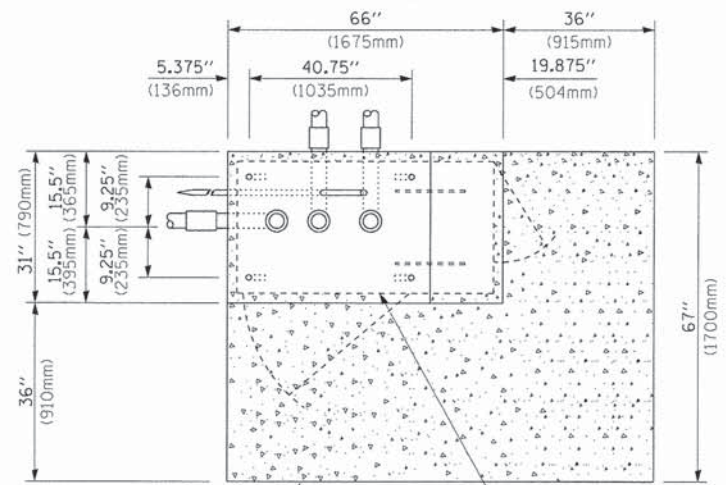
F.A.U. RTE. 2588 & 3573	SECTION 12-00067-00-TL	COUNTY DUPAGE	TOTAL SHEETS 24	SHEET NO. 7
TS-05		CONTRACT NO. 63867		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



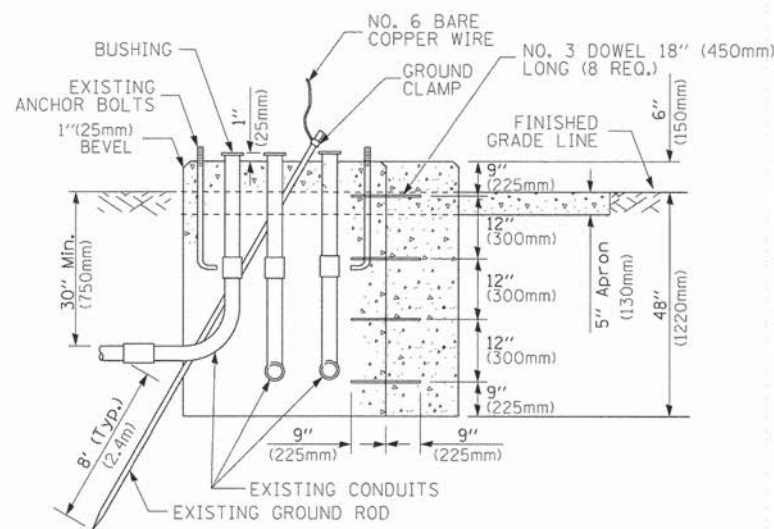
NOTES:

1. CONDUIT DEPTH SHALL BE A MINIMUM OF 30" (760mm) BELOW THE BOTTOM OF THE DRAINAGE DITCH OR ANY SLOPING GROUND
2. THE MINIMUM CONDUIT DEPTH APPLIES TO ALL CONDUIT PLACED UNDER ROADWAY PAVEMENT, MULTI-USE PATHS, SIDEWALKS AND SOIL SURFACES.
3. THE MINIMUM CONDUIT DEPTH APPLIES TO ALL HANDHOLES, HEAVY DUTY HANDHOLES AND DOUBLE HANDHOLES.

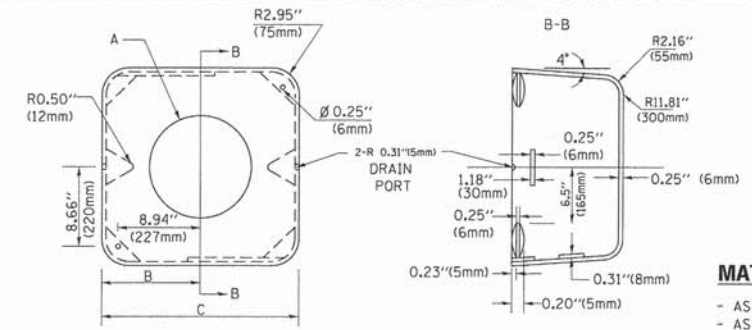
HANDHOLE WITH MINIMUM CONDUIT DEPTH
(NOT TO SCALE)



TOP VIEW
(NOT TO SCALE)



MODIFY EXISTING TYPE "D" FOUNDATION TO TYPE "C" FOUNDATION
(NOT TO SCALE)



MATERIAL:
- ASTM A36 STEEL
- ASTM A-123 HOT DIPPED GALVANIZED

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

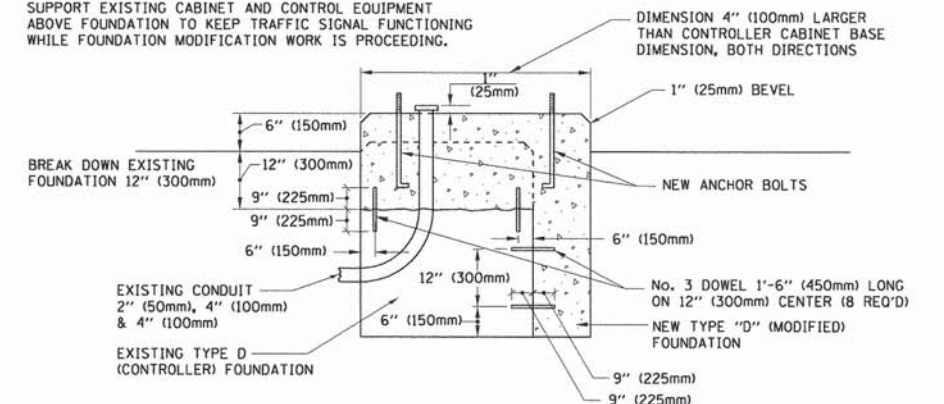
SHROUD

NOTES:

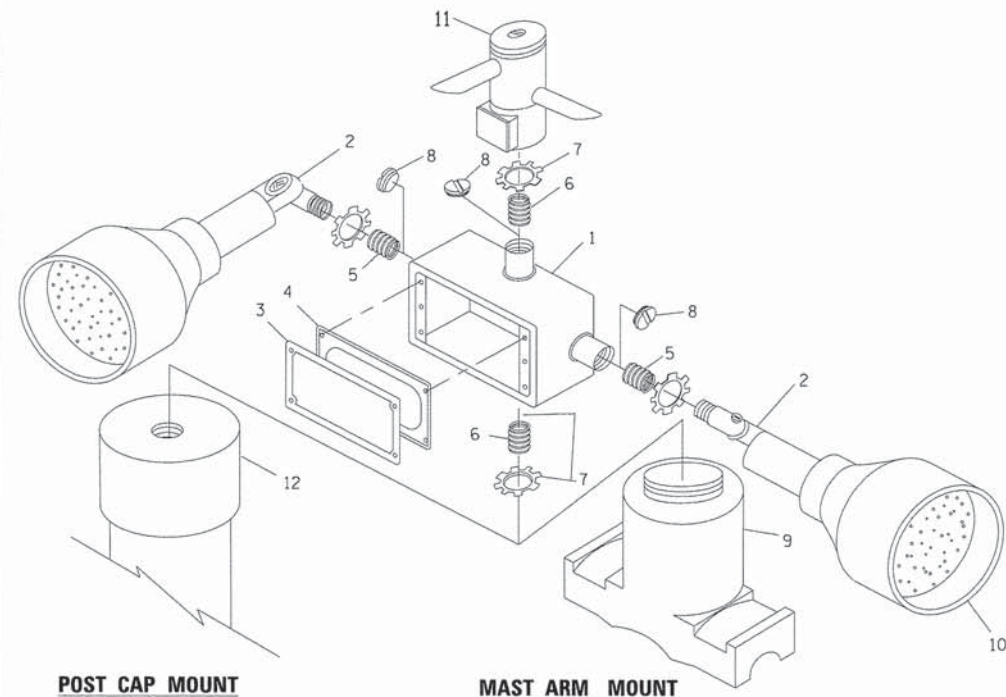
1. DIMENSION "A" IS EQUAL TO THE DIAMETER OF THE MAST ARM POLE AT THE TOP OF THE SHROUD. THE SHROUD SHALL BE TIGHT TO THE MAST ARM POLE.
2. THE SUPPLIER SHALL VERIFY THE ABOVE DIMENSIONS BASED ON MAST ARM REQUIREMENTS.
3. THE HEIGHT OF THE SHROUD SHALL COVER THE ANCHOR BOLTS, NUTS AND MAST ARM POLE BASE.

NOTE:

SUPPORT EXISTING CABINET AND CONTROL EQUIPMENT ABOVE FOUNDATION TO KEEP TRAFFIC SIGNAL FUNCTIONING WHILE FOUNDATION MODIFICATION WORK IS PROCEEDING.



MODIFY EXISTING TYPE "D" FOUNDATION

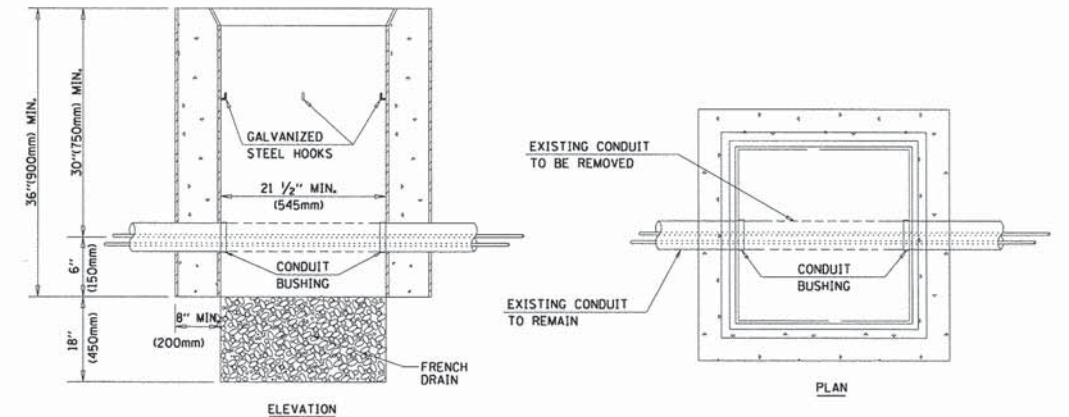


EMERGENCY VEHICLE DETECTOR WITH CONFIRMATION BEACON MOUNTING DETAIL

ITEM NO.	IDENTIFICATION
1	OUTLET BOX- GALV. 21 CU.IN. (0.000344 CU-M)
2	LAMP HOLDER AND COVER
3	OUTLET BOX COVER
4	RUBBER COVER GASKET
5	REDUCING BUSHING
6	3/4" (19 mm) CLOSE NIPPLE
7	3/4" (19 mm) LOCKNUT
8	3/4" (19 mm) HOLE PLUG
9	SADDLE BRACKET - GALV.
10	6 WATT PAR 38 LED FLOOD LAMP
11	DETECTOR UNIT
12	POST CAP [18 FT. (5.4 m) POST MIN.]

NOTES:

1. 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 3/4" (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.



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 INCLUDED WITH THE COST OF THE HANDHOLE.

HANDHOLE TO INTERCEPT EXISTING CONDUIT

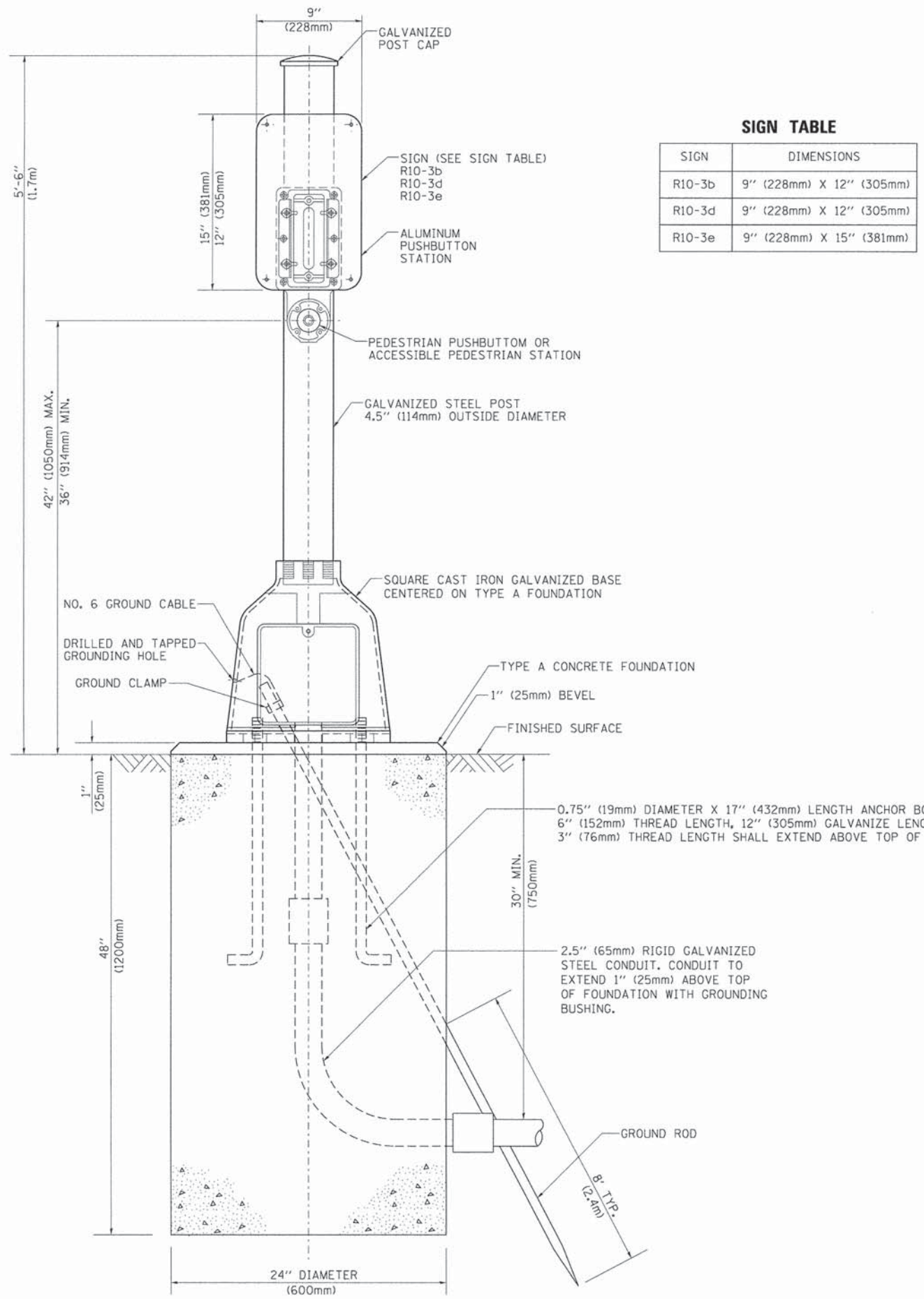
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	PLOT DATE = 1/13/2014	DATE - 10-28-09	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT ONE
STANDARD TRAFFIC SIGNAL DESIGN DETAILS

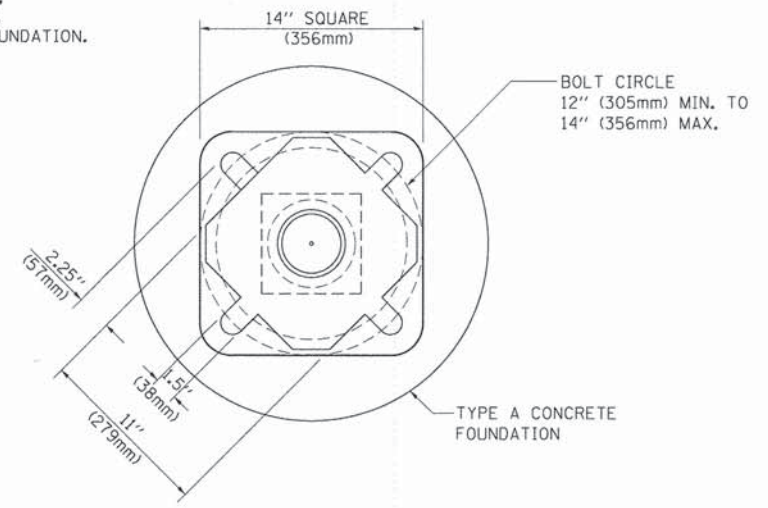
SCALE: NONE SHEET NO. 6 OF 7 SHEETS STA. TO STA.

F.A.U. RTE. 2588 & 3573	SECTION 12-00067-00-TL	COUNTY DUPAGE	TOTAL SHEETS 24	SHEET NO. 9
TS-05		CONTRACT NO. 63867		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



SIGN TABLE

SIGN	DIMENSIONS
R10-3b	9" (228mm) X 12" (305mm)
R10-3d	9" (228mm) X 12" (305mm)
R10-3e	9" (228mm) X 15" (381mm)

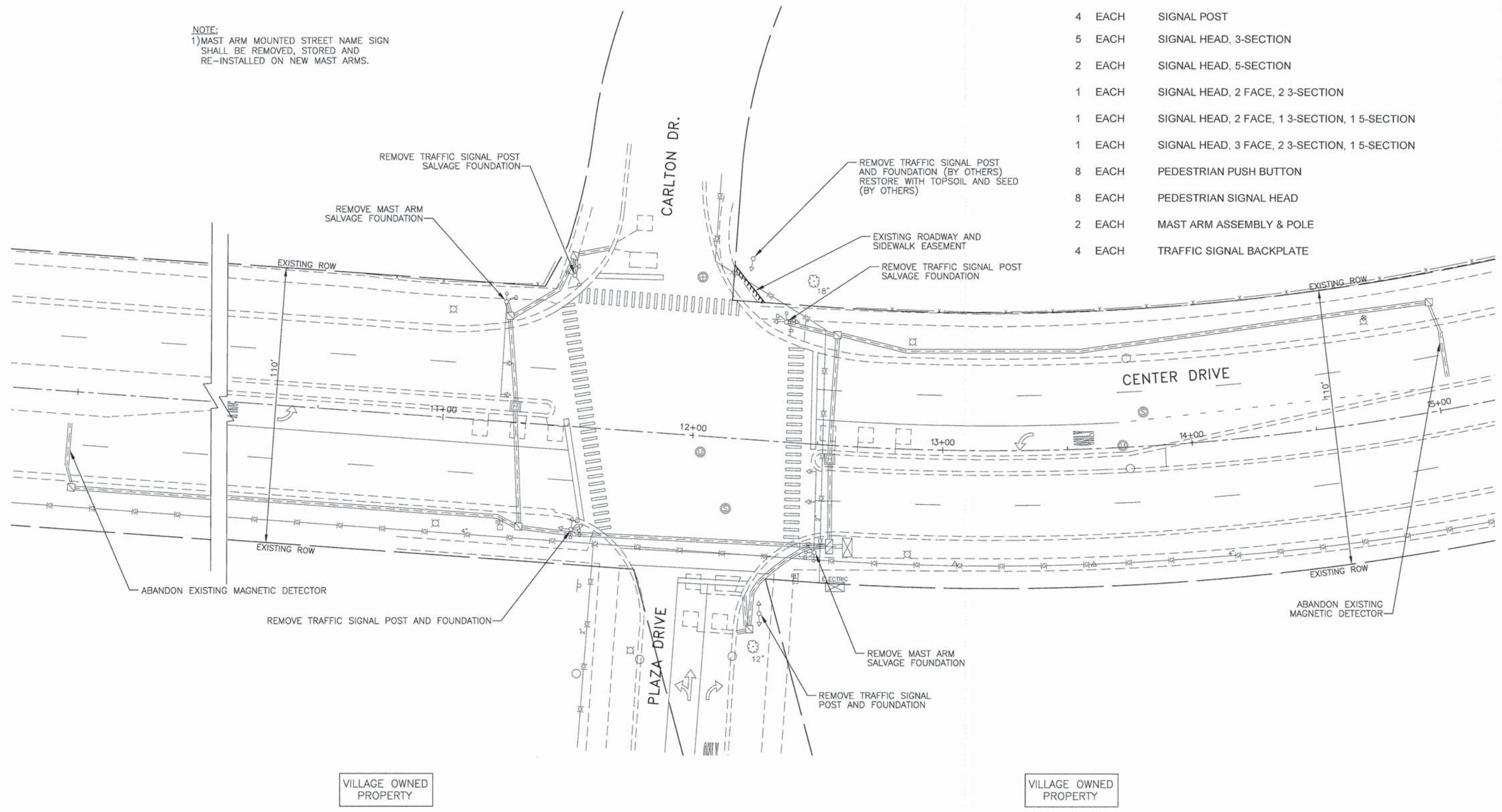
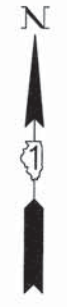


BOLT PATTERN
PEDESTRIAN PUSH BUTTON POST, TYPE A

NOTE:
 1) MAST ARM MOUNTED STREET NAME SIGN SHALL BE REMOVED, STORED AND RE-INSTALLED ON NEW MAST ARMS.

THE FOLLOWING EQUIPMENT SHALL BE REMOVED BY THE CONTRACTOR AND SHALL BE DISPOSED OF BY THE CONTRACTOR OUTSIDE THE RIGHT OF WAY AT THE CONTRACTOR'S EXPENSE.

- 4 EACH SIGNAL POST
- 5 EACH SIGNAL HEAD, 3-SECTION
- 2 EACH SIGNAL HEAD, 5-SECTION
- 1 EACH SIGNAL HEAD, 2 FACE, 2 3-SECTION
- 1 EACH SIGNAL HEAD, 2 FACE, 1 3-SECTION, 1 5-SECTION
- 1 EACH SIGNAL HEAD, 3 FACE, 2 3-SECTION, 1 5-SECTION
- 8 EACH PEDESTRIAN PUSH BUTTON
- 8 EACH PEDESTRIAN SIGNAL HEAD
- 2 EACH MAST ARM ASSEMBLY & POLE
- 4 EACH TRAFFIC SIGNAL BACKPLATE



FILE NAME =	USER NAME =	DESIGNED — S.J.G.	REVISED —
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		CHECKED — S.J.G.	REVISED —
		DATE — 11-25-2014	REVISED —

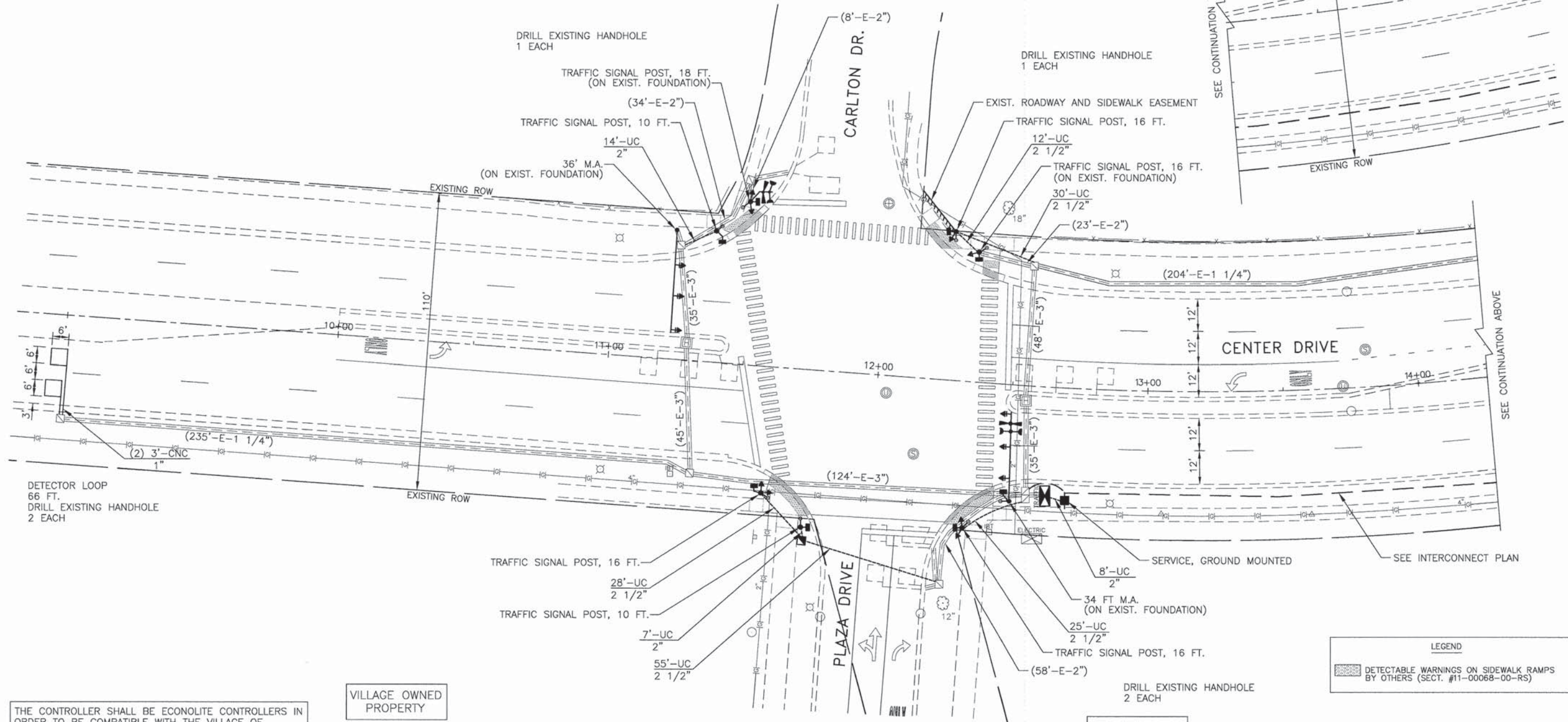
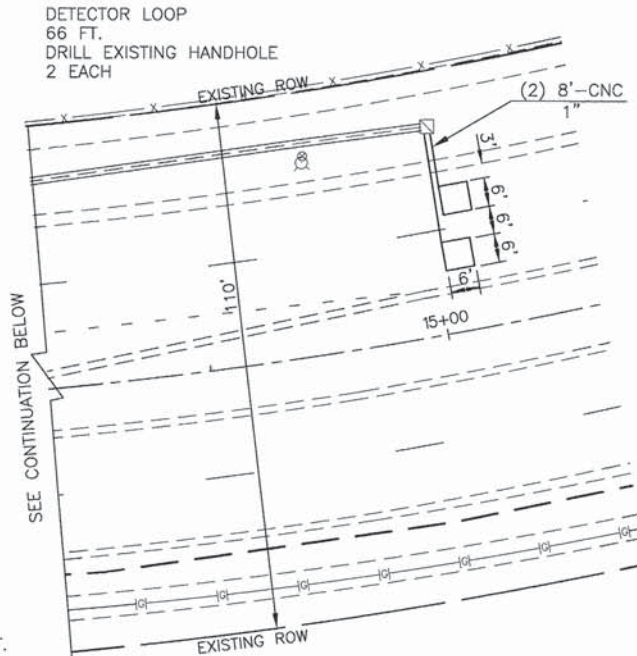
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**REMOVAL PLAN
 PLAZA DRIVE AT CENTER DRIVE**

SCALE: 1"=20' SHEET NO. 11 OF 24 SHEETS STA. TO STA.

JJB	JAMES J. BENES & ASSOCIATES, INC.			
	950 Warrenville Road, Suite 101, Lisle, Illinois 60532 Tel. (630) 719-7570 • Fax (630) 719-7589			
F.A.U. RT. 2585/3573	SECTION 12-00067-00-TL	COUNTY DuPAGE	TOTAL SHEETS 24	SHEET NO. 11
			CONTRACT NO. 63867	
ILLINOIS FED. AID PROJECT				

- NOTES:**
- 1) CURB AND SIDEWALK IMPROVEMENTS WILL BE BY OTHERS (SECT. #11-00068-00-RS)
 - 2) EXISTING CROSSWALKS AND STOP BARS TO BE RE-STRIPED BY OTHERS (SECT. #11-00068-00-RS)



DETECTOR LOOP
66 FT.
DRILL EXISTING HANDHOLE
2 EACH

THE CONTROLLER SHALL BE ECONOLITE CONTROLLERS IN ORDER TO BE COMPATIBLE WITH THE VILLAGE OF WOODRIDGE EXISTING SYSTEM. NO OTHER CONTROLLERS SHALL BE ACCEPTED. THE CONTROLLERS AND CABINETS SHALL BE PURCHASED NO MORE THAN FOUR MONTHS PRIOR TO INSTALLATION TO ENSURE THE LATEST TECHNOLOGY IS USED.

CONTROLLERS AND CABINETS SHALL BE SUPPLIED TO ACCOMMODATE FUTURE INSTALLATION OF UNINTERRUPTIBLE POWER SUPPLY.

VILLAGE OWNED PROPERTY

VILLAGE OWNED PROPERTY

LEGEND

DETECTABLE WARNINGS ON SIDEWALK RAMPS BY OTHERS (SECT. #11-00068-00-RS)

FILE NAME =	USER NAME =	DESIGNED -- SJG	REVISED --
		DRAWN -- SMP	REVISED --
	PLOT SCALE =	CHECKED -- SJG	REVISED --
	PLOT DATE =	DATE -- 11-25-2014	REVISED --

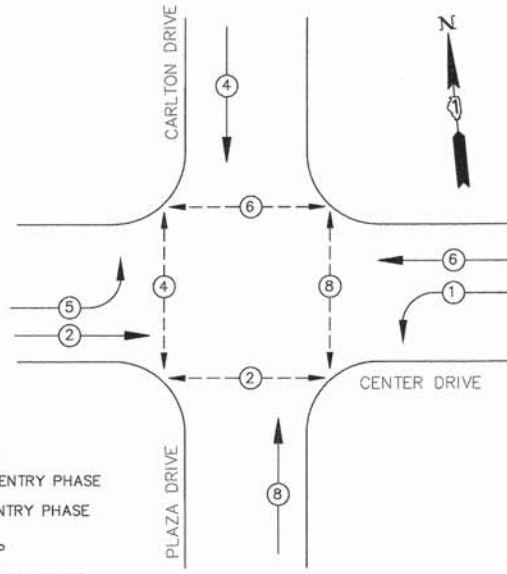
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TRAFFIC SIGNAL MODERNIZATION/GEOMETRICS PLAN
PLAZA DRIVE AT CENTER DRIVE**

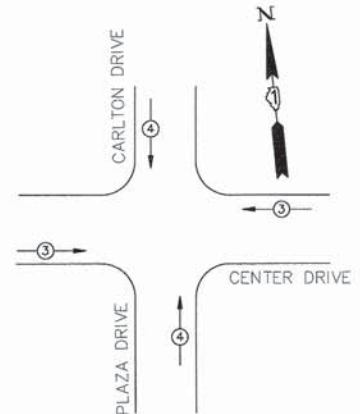
SCALE: 1"=20' SHEET NO. 12 OF 24 SHEETS STA. TO STA.

	JAMES J. BENES & ASSOCIATES, INC. 950 Warrenville Road, Suite 101, Lisle, Illinois 60532 Tel. (630) 719-7570 • Fax (630) 719-7589				
	F.A.U. RTE. 2588 & 3573	SECTION 12-00067-00-TL	COUNTY DuPAGE	TOTAL SHEETS 24	SHEET NO. 12
ILLINOIS FED. AID PROJECT				CONTRACT NO. 63867	

CONTROLLER SEQUENCE



PROPOSED PHASE DESIGNATION DIAGRAM



PROPOSED EMERGENCY VEHICLE PREEMPTION SEQUENCE

I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
TYPE	NO. LAMPS	WATTAGE INCAND.	LED	% OPERATION	
SIGNAL (RED)	14	135	17	0.50	119
(YELLOW)	14	135	25	0.25	88
(GREEN)	14	135	15	0.25	53
ARROW	8	135	12	0.10	10
PED. SIGNAL	8	90	25	1.00	200
CONTROLLER	-	100	100	1.00	100
MASTER CONTROLLER	-	100	100	1.00	-
ILLUM. SIGN	-	252		0.05	-
FLASHER					
ENERGY COSTS TO:					TOTAL = 570
100% TO VILLAGE OF WOODRIDGE					
ONE PLAZA DRIVE					
WOODRIDGE, IL 60517					
ENERGY SUPPLY CONTACT: DEBBIE RANKIN					
PHONE: 630-691-4379					
COMPANY: COMMONWEALTH EDISON					

FOUNDATION (DEPTH)	FT.	CABLE SLACK	FT.	VERTICAL	FT.
TYPE A - POST	4	HANDHOLE	6.5	ALL FOUNDATIONS	3
D - CONTROLLER	4	DOUBLE HANDHOLE	13	MAST ARM (L) POLE	20
E - M. ARM POLE		SIGNAL POST	0	BRACKET MOUNTED	13
24" (600mm)	10	CONTROLLER CAB.	0	PED. BUTTON	6
30" (750mm)	15	FIBER OPTIC	13	ELECTRIC SERVICE	13.5
		ELECTRIC SERVICE	1	SERVICE TO GROUND	13.5
		GROUND CABLE	1	POST MOUNTED	13

SCHEDULE OF QUANTITIES

CODE NO	PAY ITEM	UNIT	PLAZA
70102635	TRAFFIC CONTROL AND PROTECTION - STANDARD 701701	L SUM	0.25
70102640	TRAFFIC CONTROL AND PROTECTION - STANDARD 701801	L SUM	0.25
70106800	CHANGEABLE MESSAGE SIGN	CAL MO	1
80500010	SERVICE INSTALLATION - GROUND MOUNTED	EACH	1
81028200	UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	29
81028210	UNDERGROUND CONDUIT, GALVANIZED STEEL, 2 1/2" DIA.	FOOT	139
81028240	UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	7
81028720	UNDERGROUND CONDUIT, COILABLE NONMETALLIC CONDUIT, 1" DIA.	FOOT	22
81400100	HANDHOLE	EACH	1
85000200	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
86400100	TRANSCIVER-FIBER OPTIC	EACH	1
87300010	GROUNDING EXISTING HANDHOLE FRAME AND COVER	EACH	8
87301215	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	1338
87301225	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	1805
87301245	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	1852
87301255	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	474
87301305	ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	2162
87301805	ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C	FOOT	30
87301900	ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	662
87502440	TRAFFIC SIGNAL POST, GALVANIZED STEEL 10 FT.	EACH	2
87502500	TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EACH	4
87502520	TRAFFIC SIGNAL POST, GALVANIZED STEEL 18 FT.	EACH	1
87700210	STEEL MAST ARM ASSEMBLY AND POLE, 34 FT.	EACH	1
87700220	STEEL MAST ARM ASSEMBLY AND POLE, 36 FT.	EACH	1
87800100	CONCRETE FOUNDATION, TYPE A	FOOT	24
87900200	DRILL EXISTING HANDHOLE	EACH	8
88030020	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED	EACH	4
88030050	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	2
88030100	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	2
88030110	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED	EACH	2
88030210	SIGNAL HEAD, LED, 2-FACE, 3-SECTION, BRACKET MOUNTED	EACH	2
88102717	PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	8
88200100	TRAFFIC SIGNAL BACKPLATE	EACH	6
88500100	INDUCTIVE LOOP DETECTOR	EACH	9
88600100	DETECTOR LOOP, TYPE 1	FOOT	132
88700200	LIGHT DETECTOR	EACH	2
88700300	LIGHT DETECTOR AMPLIFIER	EACH	1
88800100	PEDESTRIAN PUSH-BUTTON	EACH	8
89502220	MODIFY EXISTING CONCRETE FOUNDATION	EACH	1
89502300	REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	5855
89502375	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
89502385	REMOVE EXISTING CONCRETE FOUNDATION	EACH	3
X2501020	SEEDING, CLASS 2A (SPECIAL)	ACRE	0.10
X8570226	FULL-ACTUATED CONTROLLER AND TYPE IV CABINET, SPECIAL	EACH	1
X8730250	ELECTRIC CABLE IN CONDUIT NO. 20 3C, TWISTED, SHELDED	FOOT	402

CARLTON DRIVE

PLAZA DRIVE

CENTER DRIVE

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CABLE PLAN
PLAZA DRIVE AT CENTER DRIVE

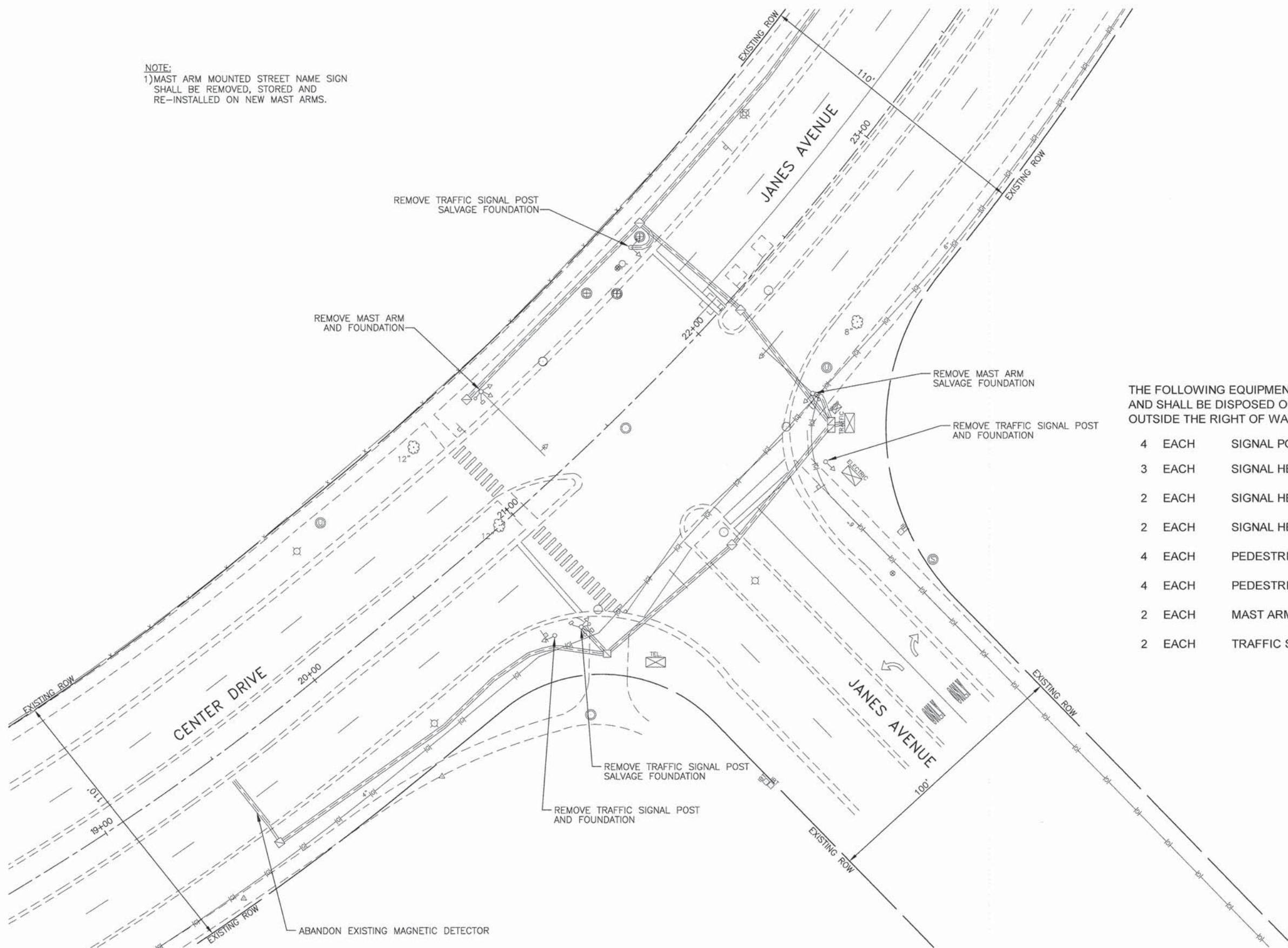
JJB JAMES J. BENES & ASSOCIATES, INC.
950 Warrenville Road, Suite 101, Lisle, Illinois 60532
Tel. (630) 719-7570 • Fax (630) 719-7589

FILE NAME =	USER NAME =	DESIGNED - S.J.G.	REVISED -
		DRAWN - SMP	REVISED -
		CHECKED - S.J.G.	REVISED -
		DATE - 11-25-2014	REVISED -

SCALE: NTS SHEET NO. 13 OF 24 SHEETS STA. TO STA.

F.A.U. RTE. 2588 & 3573	SECTION 12-00067-00-TL	COUNTY DuPAGE	TOTAL SHEETS 24	SHEET NO. 13
CONTRACT NO. 63867			ILLINOIS FED. AID PROJECT	

NOTE:
 1) MAST ARM MOUNTED STREET NAME SIGN SHALL BE REMOVED, STORED AND RE-INSTALLED ON NEW MAST ARMS.



THE FOLLOWING EQUIPMENT SHALL BE REMOVED BY THE CONTRACTOR AND SHALL BE DISPOSED OF BY THE CONTRACTOR OUTSIDE THE RIGHT OF WAY AT THE CONTRACTOR'S EXPENSE.

- 4 EACH SIGNAL POST
- 3 EACH SIGNAL HEAD, 3-SECTION
- 2 EACH SIGNAL HEAD, 5-SECTION
- 2 EACH SIGNAL HEAD, 2 FACE, 1 3-SECTION, 1 5-SECTION
- 4 EACH PEDESTRIAN PUSH BUTTON
- 4 EACH PEDESTRIAN SIGNAL HEAD
- 2 EACH MAST ARM ASSEMBLY & POLE
- 2 EACH TRAFFIC SIGNAL BACKPLATE

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			CONTRACT NO. 63867	
ILLINOIS FED. AID PROJECT				

FILE NAME =	USER NAME =	DESIGNED -- SJG	REVISED --
		DRAWN -- SMP	REVISED --
		CHECKED -- SJG	REVISED --
		DATE -- 11-25-2014	REVISED --

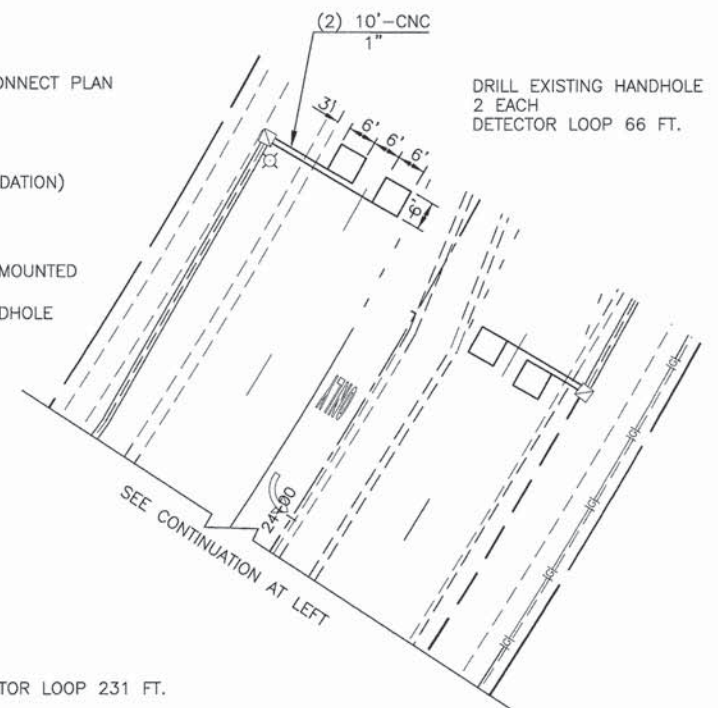
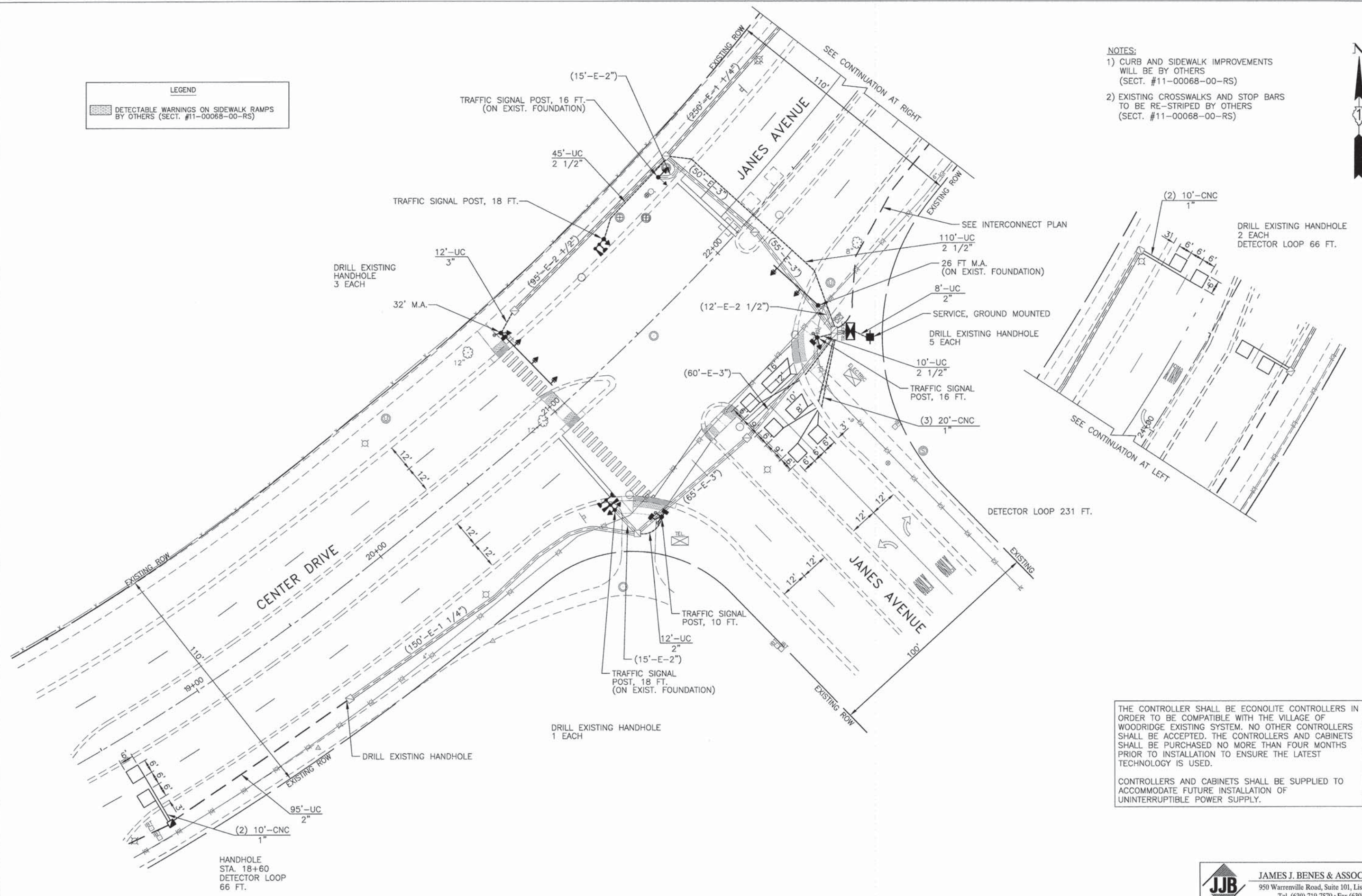
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**REMOVAL PLAN
 JANES AVENUE AT CENTER DRIVE**

SCALE: 1"=20' SHEET NO. 14 OF 24 SHEETS STA. TO STA.

LEGEND	
	DETECTABLE WARNINGS ON SIDEWALK RAMP BY OTHERS (SECT. #11-00068-00-RS)

- NOTES:**
- 1) CURB AND SIDEWALK IMPROVEMENTS WILL BE BY OTHERS (SECT. #11-00068-00-RS)
 - 2) EXISTING CROSSWALKS AND STOP BARS TO BE RE-STRIPED BY OTHERS (SECT. #11-00068-00-RS)



THE CONTROLLER SHALL BE ECONOLITE CONTROLLERS IN ORDER TO BE COMPATIBLE WITH THE VILLAGE OF WOODRIDGE EXISTING SYSTEM. NO OTHER CONTROLLERS SHALL BE ACCEPTED. THE CONTROLLERS AND CABINETS SHALL BE PURCHASED NO MORE THAN FOUR MONTHS PRIOR TO INSTALLATION TO ENSURE THE LATEST TECHNOLOGY IS USED.

CONTROLLERS AND CABINETS SHALL BE SUPPLIED TO ACCOMMODATE FUTURE INSTALLATION OF UNINTERRUPTIBLE POWER SUPPLY.

FILE NAME =	USER NAME =	DESIGNED — SJG	REVISED —
		DRAWN — SMP	REVISED —
PLOT SCALE =	CHECKED — SJG	REVISED —	
PLOT DATE =	DATE — 11-25-2014	REVISED —	

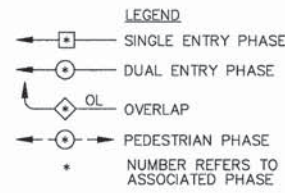
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TRAFFIC SIGNAL MODERNIZATION/GEOMETRICS PLAN
JANES AVENUE AT CENTER DRIVE**

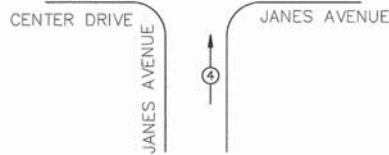
SCALE: 1"=20' SHEET NO. 15 OF 24 SHEETS STA. TO STA.

	JAMES J. BENES & ASSOCIATES, INC.			
	950 Warrenville Road, Suite 101, Lisle, Illinois 60532 Tel. (630) 719-7570 • Fax (630) 719-7589			
F.A.U. RTE. 2588 & 3573	SECTION 12-00067-00-TL	COUNTY DuPAGE	TOTAL SHEETS 24	SHEET NO. 15
			CONTRACT NO. 63867	
ILLINOIS FED. AID PROJECT				

CONTROLLER SEQUENCE



PROPOSED PHASE DESIGNATION DIAGRAM

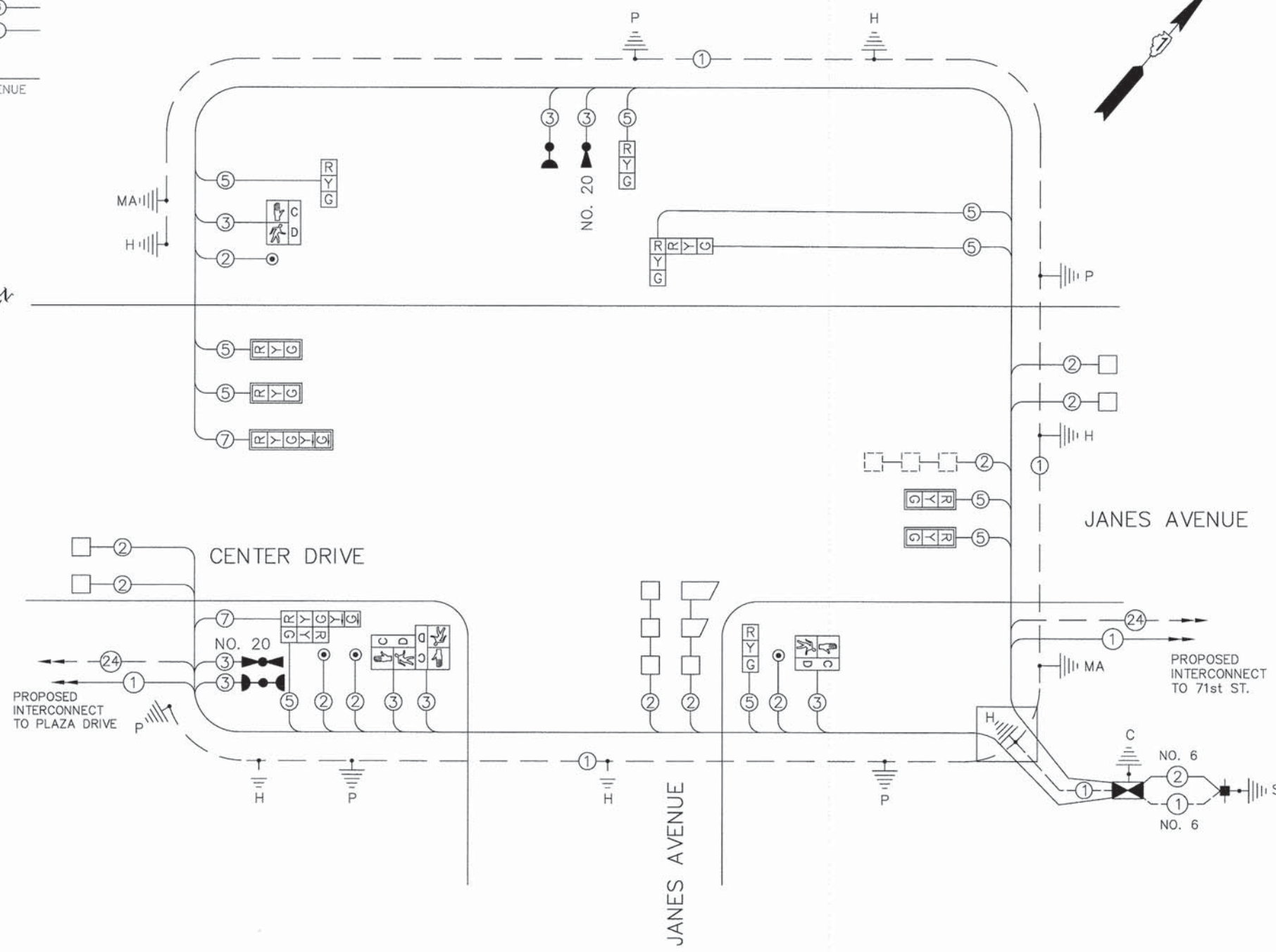


PROPOSED EMERGENCY VEHICLE PREEMPTION SEQUENCE

PROPOSED EMERGENCY VEHICLE PREEMPTIONS		
EMERGENCY VEHICLE PREEMPTIONS	3	4
MOVEMENT	←	↑

SCHEDULE OF QUANTITIES

CODE NO	PAY ITEM	UNIT	JANES
70102835	TRAFFIC CONTROL AND PROTECTION - STANDARD 701701	L SUM	0.25
70102840	TRAFFIC CONTROL AND PROTECTION - STANDARD 701801	L SUM	0.25
70106800	CHANGEABLE MESSAGE SIGN	CAL MO	1
80500010	SERVICE INSTALLATION - GROUND MOUNTED	EACH	1
81028200	UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	115
81028210	UNDERGROUND CONDUIT, GALVANIZED STEEL, 2 1/2" DIA.	FOOT	165
81028220	UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	12
81028240	UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	7
81028720	UNDERGROUND CONDUIT, COILABLE NONMETALLIC CONDUIT, 1" DIA.	FOOT	100
81400100	HANDHOLE	EACH	1
85000200	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
86400100	TRANSCEIVER FIBER OPTIC	EACH	1
87100020	FIBER OPTIC CABLE IN CONDUIT, NO. 62.5/125, MM12F SM12F	FOOT	1681
87300925	ELECTRIC CABLE IN CONDUIT, TRACER NO. 14 1C	FOOT	1618
87300010	GROUNDING EXISTING HANDHOLE FRAME AND COVER	EACH	6
87301215	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	873
87301225	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	1101
87301245	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	1787
87301255	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	497
87301305	ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	1771
87301805	ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C	FOOT	30
87301900	ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	541
87502440	TRAFFIC SIGNAL POST, GALVANIZED STEEL 10 FT.	EACH	1
87502500	TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EACH	2
87502520	TRAFFIC SIGNAL POST, GALVANIZED STEEL 18 FT.	EACH	2
87700170	STEEL MAST ARM ASSEMBLY AND POLE, 26 FT.	EACH	1
87700200	STEEL MAST ARM ASSEMBLY AND POLE, 32 FT.	EACH	1
87800100	CONCRETE FOUNDATION, TYPE A	FOOT	20
87800400	CONCRETE FOUNDATION, TYPE E 30-INCH DIAMETER	FOOT	13.5
87800200	DRILL EXISTING HANDHOLE	EACH	12
88030020	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED	EACH	4
88030050	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	3
88030110	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED	EACH	1
88030210	SIGNAL HEAD, LED, 2-FACE, 3-SECTION, BRACKET MOUNTED	EACH	1
88030240	SIGNAL HEAD, LED, 2-FACE, 1-3-SECTION, 1-5-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
88200100	TRAFFIC SIGNAL BACKPLATE	EACH	6
88500100	INDUCTIVE LOOP DETECTOR	EACH	7
88600100	DETECTOR LOOP, TYPE 1	FOOT	363
88700200	LIGHT DETECTOR	EACH	2
88700300	LIGHT DETECTOR AMPLIFIER	EACH	1
88800100	PEDESTRIAN PUSH-BUTTON	EACH	4
89502220	MODIFY EXISTING CONCRETE FOUNDATION	EACH	1
89502300	REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	4139
89502375	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
89502385	REMOVE EXISTING CONCRETE FOUNDATION	EACH	3
X2501020	SEEDING, CLASS 2A (SPECIAL)	ACRE	0.10
X8570231	FULL-ACTUATED CONTROLLER AND TYPE V CABINET, SPECIAL	EACH	1
X8800105	MASTER CONTROLLER (SPECIAL)	EACH	1
X8730250	ELECTRIC CABLE IN CONDUIT NO. 20 3/C, TWISTED, SHIELDED	FOOT	400



I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					
TYPE	NO. LAMPS	WATTAGE INCAND.	LED	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	14	135	17	0.50	119
(YELLOW)	14	135	25	0.25	88
(GREEN)	14	135	15	0.25	53
ARROW	8	135	12	0.10	10
PED. SIGNAL	8	90	25	1.00	200
CONTROLLER	-	100	100	1.00	100
MASTER CONTROLLER	-	100	100	1.00	-
ILLUM. SIGN	-	252		0.05	-
FLASHER					
ENERGY COSTS TO: 100% TO VILLAGE OF WOODRIDGE					TOTAL = 570
ONE PLAZA DRIVE					
WOODRIDGE, IL 60517					
ENERGY SUPPLY CONTACT: DEBBIE RANKIN					
PHONE: 630-691-4379					
COMPANY: COMMONWEALTH EDISON					

FOUNDATION (DEPTH)	FT.	CABLE SLACK	FT.	VERTICAL	FT.
TYPE A - POST	4	HANDHOLE	6.5	ALL FOUNDATIONS	3
D - CONTROLLER	4	DOUBLE HANDHOLE	13	MAST ARM (L) POLE	20
E - M. ARM POLE		SIGNAL POST	0	BRACKET MOUNTED	13
24" (600mm)	10	CONTROLLER CAB.	0	PED. BUTTON	6
30" (750mm)	15	FIBER OPTIC	13	ELECTRIC SERVICE	13.5
		ELECTRIC SERVICE	1	SERVICE TO GROUND	13.5
		GROUND CABLE	1	POST MOUNTED	13

FILE NAME =	USER NAME =	DESIGNED -- SJG	REVISED --
		DRAWN -- SMP	REVISED --
		CHECKED -- SJG	REVISED --
		DATE -- 11-25-2014	REVISED --

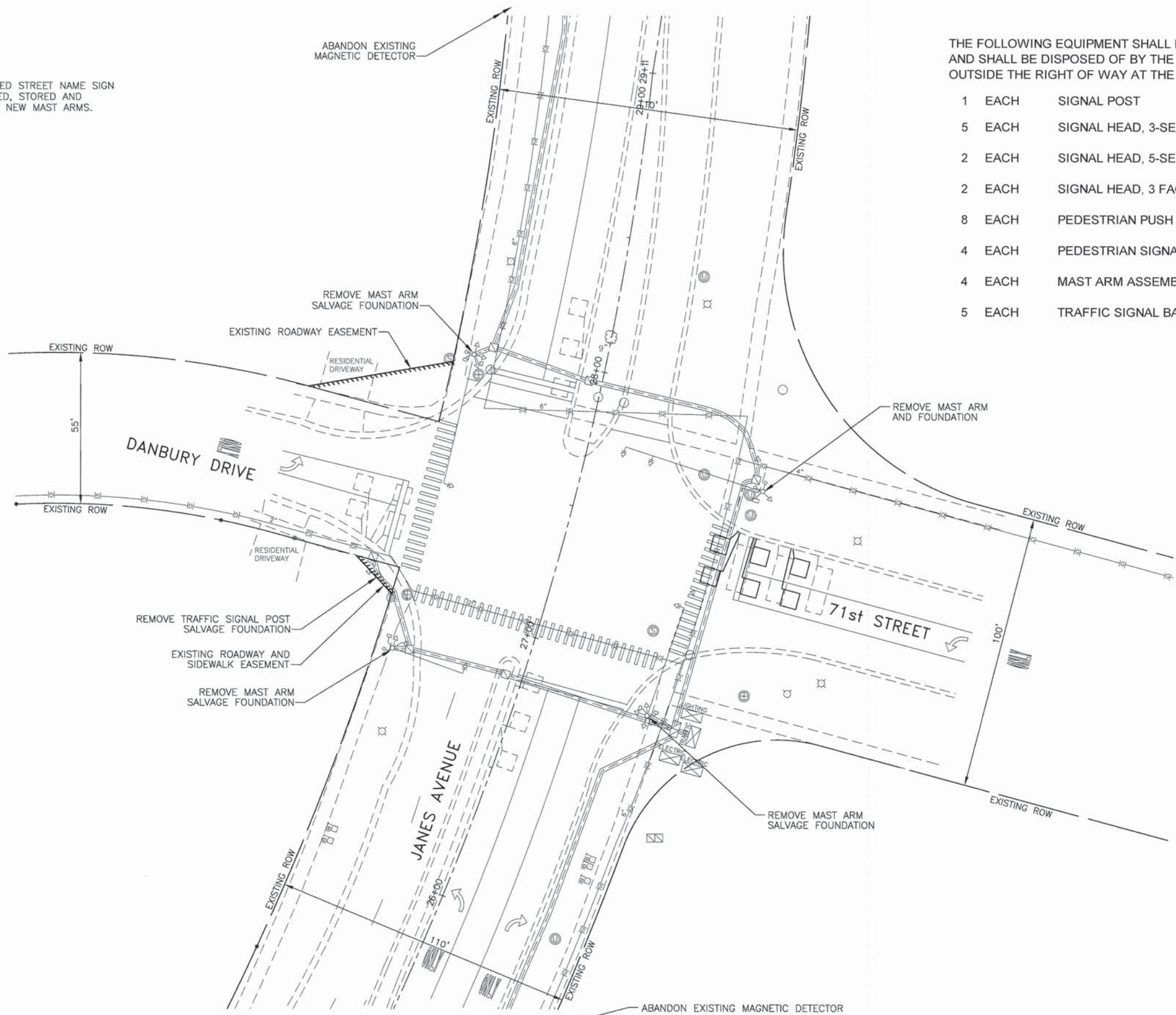
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CABLE PLAN
JANES AVENUE AT CENTER DRIVE
SCALE: NTS SHEET NO. 16 OF 24 SHEETS STA. TO STA.

JJB JAMES J. BENES & ASSOCIATES, INC.
950 Warrenville Road, Suite 101, Lisle, Illinois 60532
Tel. (630) 719-7570 • Fax (630) 719-7589

F.A.U. RTE. 2589.4 357.3	SECTION 12-00067-00-TL	COUNTY DuPAGE	TOTAL SHEETS 24	SHEET NO. 16
CONTRACT NO. 63867			ILLINOIS FED. AID PROJECT	

NOTE:
 1) MAST ARM MOUNTED STREET NAME SIGN SHALL BE REMOVED, STORED AND RE-INSTALLED ON NEW MAST ARMS.



THE FOLLOWING EQUIPMENT SHALL BE REMOVED BY THE CONTRACTOR AND SHALL BE DISPOSED OF BY THE CONTRACTOR OUTSIDE THE RIGHT OF WAY AT THE CONTRACTOR'S EXPENSE.

- 1 EACH SIGNAL POST
- 5 EACH SIGNAL HEAD, 3-SECTION
- 2 EACH SIGNAL HEAD, 5-SECTION
- 2 EACH SIGNAL HEAD, 3 FACE, 2 3-SECTION, 1 5-SECTION
- 8 EACH PEDESTRIAN PUSH BUTTON
- 4 EACH PEDESTRIAN SIGNAL HEAD, 2-FACE
- 4 EACH MAST ARM ASSEMBLY & POLE
- 5 EACH TRAFFIC SIGNAL BACKPLATE



FILE NAME =	USER NAME =	DESIGNED -- SJG	REVISED --
		DRAWN -- SMP	REVISED --
		CHECKED -- SJG	REVISED --
		DATE -- 11-25-2014	REVISED --

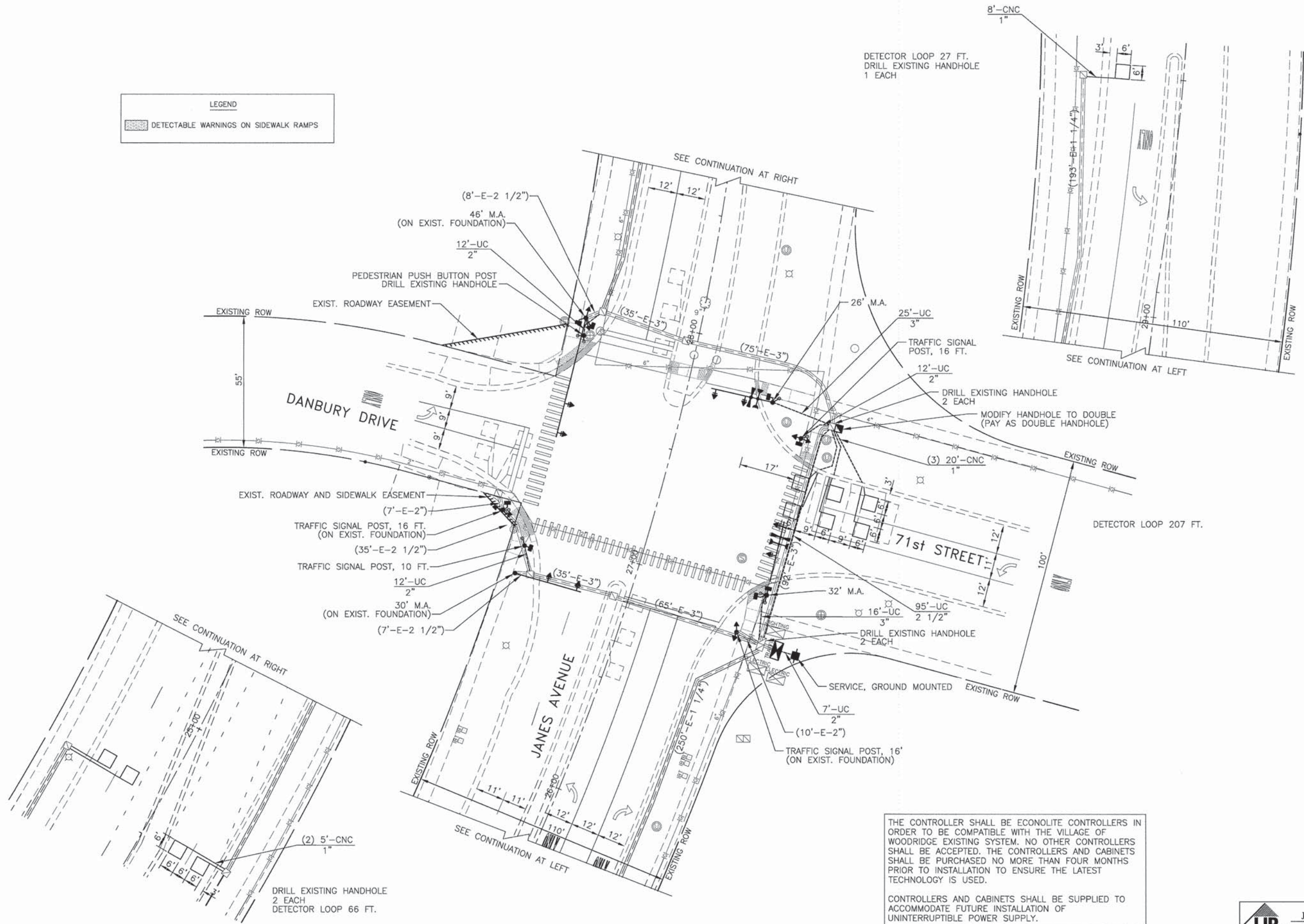
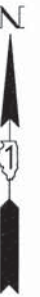
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**REMOVAL PLAN
 JANES AVENUE AT 71st STREET/DANBURY DRIVE**

SCALE: 1"=20' SHEET NO. 17 OF 24 SHEETS STA. TO STA.

JJB	JAMES J. BENES & ASSOCIATES, INC. 950 Warrenville Road, Suite 101, Lisle, Illinois 60532 Tel. (630) 719-7570 • Fax (630) 719-7589				
	F.A.U. RTE. 250R & 35R	SECTION 12-00067-00-TL	COUNTY DuPAGE	TOTAL SHEETS 24	SHEET NO. 17
CONTRACT NO. 63867				ILLINOIS FED. AID PROJECT	

LEGEND	
	DETECTABLE WARNINGS ON SIDEWALK RAMP



THE CONTROLLER SHALL BE ECONOLITE CONTROLLERS IN ORDER TO BE COMPATIBLE WITH THE VILLAGE OF WOODRIDGE EXISTING SYSTEM. NO OTHER CONTROLLERS SHALL BE ACCEPTED. THE CONTROLLERS AND CABINETS SHALL BE PURCHASED NO MORE THAN FOUR MONTHS PRIOR TO INSTALLATION TO ENSURE THE LATEST TECHNOLOGY IS USED.

CONTROLLERS AND CABINETS SHALL BE SUPPLIED TO ACCOMMODATE FUTURE INSTALLATION OF UNINTERRUPTIBLE POWER SUPPLY.

FILE NAME =	USER NAME =	DESIGNED — SJC	REVISED —
		DRAWN — SMP	REVISED —
	PLOT SCALE =	CHECKED — SJC	REVISED —
	PLOT DATE =	DATE — 11-25-2014	REVISED —

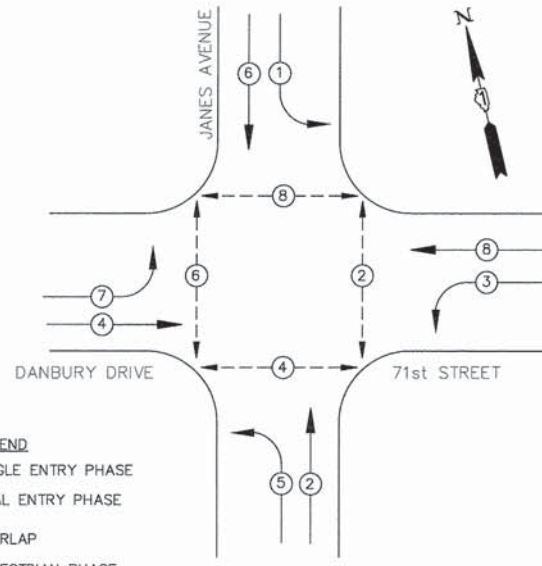
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TRAFFIC SIGNAL MODERNIZATION/GEOMETRICS PLAN
JANES AVENUE AT 71st STREET/DANBURY DRIVE**

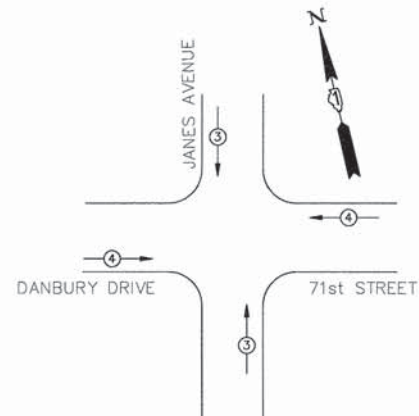
SCALE: 1"=20' SHEET NO. 18 OF 24 SHEETS STA. TO STA.

	JAMES J. BENES & ASSOCIATES, INC.			
	950 Warrenville Road, Suite 101, Lisle, Illinois 60532 Tel. (630) 719-7570 • Fax (630) 719-7589			
F.A.U. RTE. 2589.4 357.3	SECTION 12-00067-00-TL	COUNTY DuPAGE	TOTAL SHEETS 24	SHEET NO. 18
			CONTRACT NO. 63867	
ILLINOIS FED. AID PROJECT				

CONTROLLER SEQUENCE



PROPOSED PHASE DESIGNATION DIAGRAM



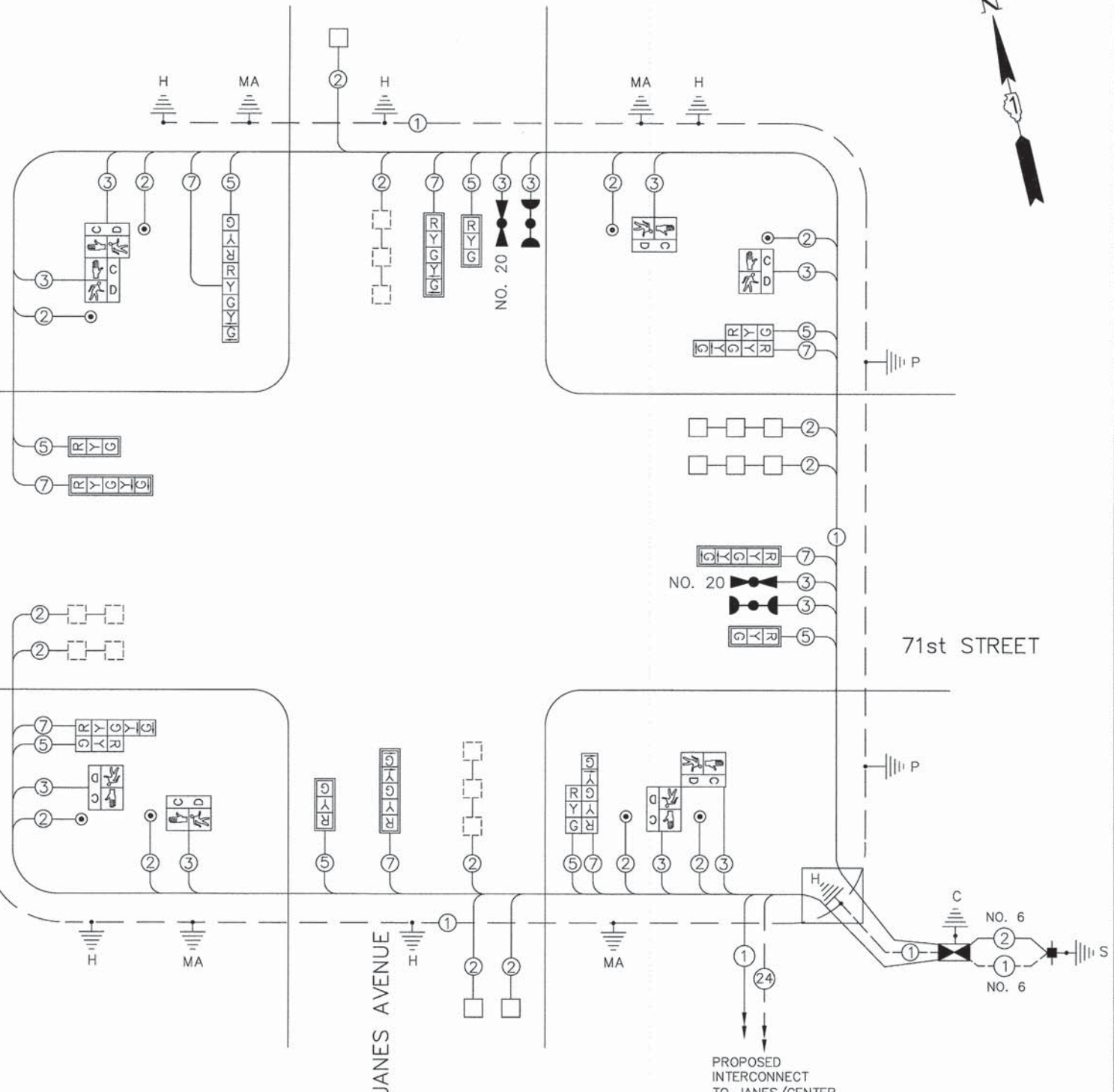
PROPOSED EMERGENCY VEHICLE PREEMPTION SEQUENCE

I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
TYPE	NO. LAMPS	WATTAGE INCAND.	LED	% OPERATION	
SIGNAL (RED)	16	135	17	0.50	136
(YELLOW)	16	135	25	0.25	100
(GREEN)	16	135	15	0.25	60
ARROW	8	135	12	0.10	10
PED. SIGNAL	8	90	25	1.00	200
CONTROLLER	-	100	100	1.00	100
MASTER CONTROLLER	-	100	100	1.00	-
ILLUM. SIGN	-	252		0.05	-
FLASHER					
ENERGY COSTS TO:					TOTAL = 570
100% TO VILLAGE OF WOODRIDGE					
ONE PLAZA DRIVE					
WOODRIDGE, IL 60517					
ENERGY SUPPLY CONTACT: DEBBIE RANKIN					
PHONE: 630-691-4379					
COMPANY: COMMONWEALTH EDISON					

FOUNDATION (DEPTH)	FT.	CABLE SLACK	FT.	VERTICAL	FT.
TYPE A - POST	4	HANDHOLE	6.5	ALL FOUNDATIONS	3
D - CONTROLLER	4	DOUBLE HANDHOLE	13	MAST ARM (L) POLE	20
E - M. ARM POLE		SIGNAL POST	0	BRACKET MOUNTED	13
24" (600mm)	10	CONTROLLER CAB.	0	PED. BUTTON	6
30" (750mm)	15	FIBER OPTIC	13	ELECTRIC SERVICE	13.5
		ELECTRIC SERVICE	1	SERVICE TO GROUND	13.5
		GROUND CABLE	1	POST MOUNTED	13

SCHEDULE OF QUANTITIES

CODE NO	PAY ITEM	UNIT	71ST
70102635	TRAFFIC CONTROL AND PROTECTION - STANDARD 701701	L SUM	0.25
70102640	TRAFFIC CONTROL AND PROTECTION - STANDARD 701801	L SUM	0.25
70106600	CHANGEABLE MESSAGE SIGN	CAL NO	1
80500010	SERVICE INSTALLATION - GROUND MOUNTED	EACH	1
81028200	UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	43
81028210	UNDERGROUND CONDUIT, GALVANIZED STEEL, 2 1/2" DIA.	FOOT	95
81028220	UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	41
81028240	UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	7
81028720	UNDERGROUND CONDUIT, COILABLE NONMETALLIC CONDUIT, 1" DIA.	FOOT	78
81400300	DOUBLE HANDHOLE	EACH	1
85000200	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
88400100	TRANSCIVER-FIBER OPTIC	EACH	1
87300010	GROUNDING EXISTING HANDHOLE FRAME AND COVER	EACH	7
87301215	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	1425
87301225	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	1784
87301245	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	1334
87301255	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	1382
87301305	ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	1943
87301805	ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C	FOOT	30
87301900	ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1 C	FOOT	504
87502440	TRAFFIC SIGNAL POST, GALVANIZED STEEL 10 FT.	EACH	1
87502500	TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EACH	3
87602000	PEDESTRIAN PUSH-BUTTON POST	EACH	1
87700170	STEEL MAST ARM ASSEMBLY AND POLE, 26 FT.	EACH	1
87700190	STEEL MAST ARM ASSEMBLY AND POLE, 30 FT.	EACH	1
87700200	STEEL MAST ARM ASSEMBLY AND POLE, 32 FT.	EACH	1
87700270	STEEL MAST ARM ASSEMBLY AND POLE, 46 FT.	EACH	1
87800100	CONCRETE FOUNDATION, TYPE A	FOOT	16
87800400	CONCRETE FOUNDATION, TYPE E 30-INCH DIAMETER	FOOT	23.5
87900200	DRILL EXISTING HANDHOLE	EACH	8
88030020	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED	EACH	4
88030100	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	4
88030110	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED	EACH	4
88030240	SIGNAL HEAD, LED, 2-FACE, 1 3-SECTION, 1 5-SECTION, BRACKET MOUNTED	EACH	4
88102717	PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	4
88102747	PEDESTRIAN SIGNAL HEAD, LED, 2-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	2
88200100	TRAFFIC SIGNAL BACKPLATE	EACH	8
88500100	INDUCTIVE LOOP DETECTOR	EACH	9
88600100	DETECTOR LOOP, TYPE 1	FOOT	300
88700200	LIGHT DETECTOR	EACH	2
88700300	LIGHT DETECTOR AMPLIFIER	EACH	1
88800100	PEDESTRIAN PUSH-BUTTON	EACH	8
89502220	MODIFY EXISTING CONCRETE FOUNDATION	EACH	1
89502300	REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	6961
89502375	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
89502385	REMOVE EXISTING CONCRETE FOUNDATION	EACH	1
X8570225	FULL-ACTUATED CONTROLLER AND TYPE IV CABINET, SPECIAL	EACH	1
X8730250	ELECTRIC CABLE IN CONDUIT NO. 20 3/C, TWISTED, SHIELDED	FOOT	317



PROPOSED INTERCONNECT TO JANES/CENTER

FILE NAME =	USER NAME =	DESIGNED - SJC	REVISED -
		DRAWN - SMP	REVISED -
		CHECKED - SJC	REVISED -
		DATE - 11-25-2014	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CABLE PLAN
JANES AVENUE AT 71st STREET/CENTER DRIVE
SCALE: NTS SHEET NO. 19 OF 24 SHEETS STA. TO STA.

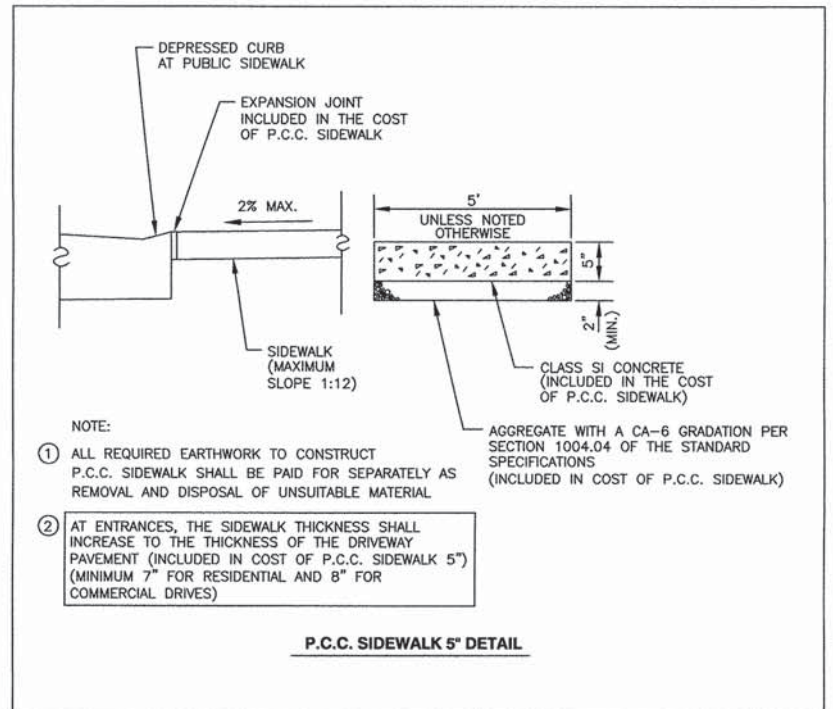
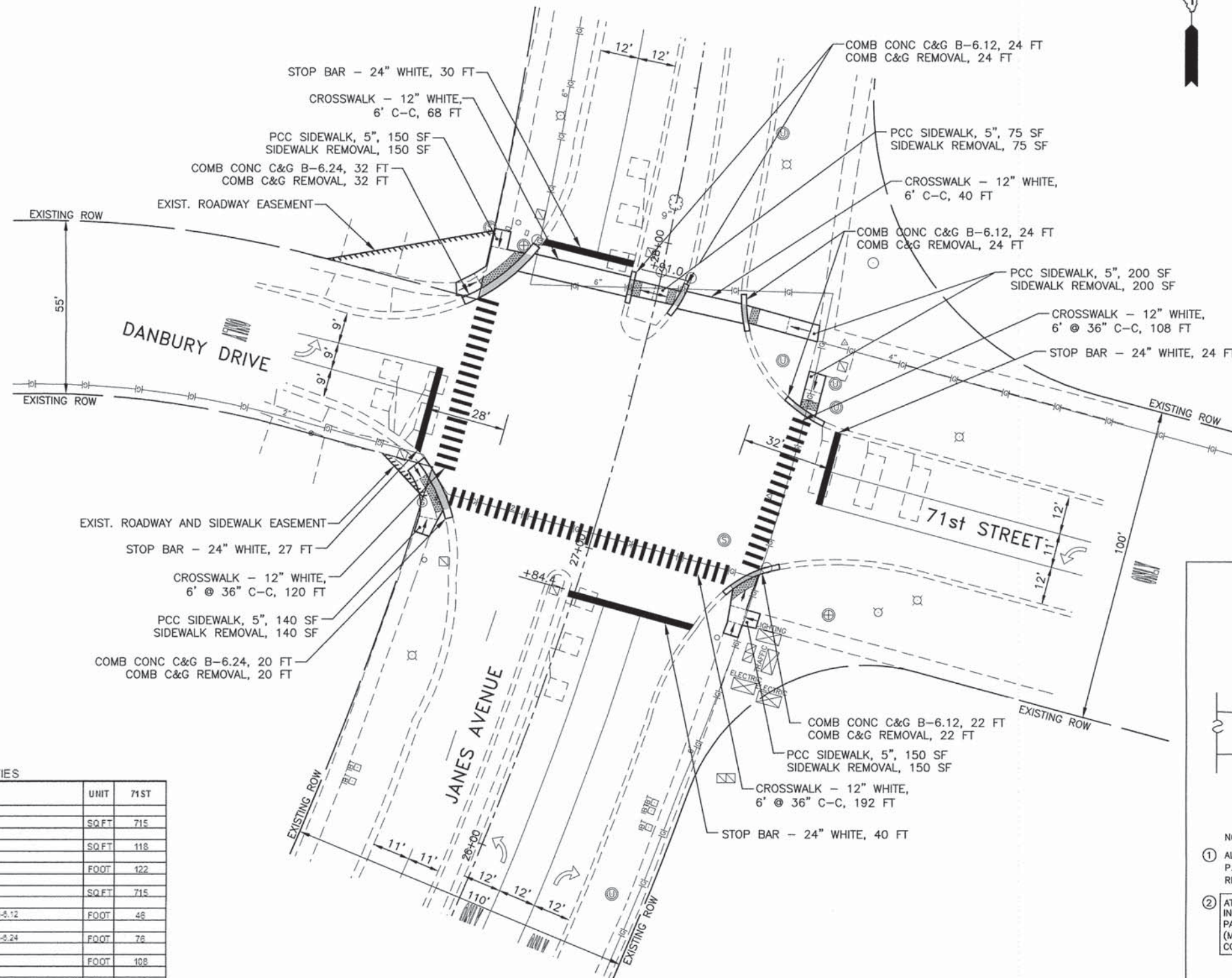
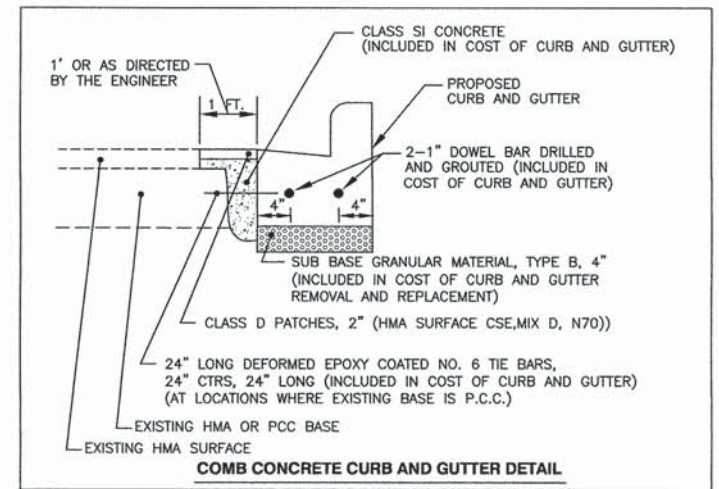
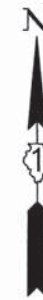
JJB JAMES J. BENES & ASSOCIATES, INC.
950 Warrenville Road, Suite 101, Lisle, Illinois 60532
Tel. (630) 719-7570 • Fax (630) 719-7589

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2385	12-00067-00-TL	DuPAGE	24	19

CONTRACT NO. 63867
ILLINOIS FED. AID PROJECT

LEGEND

DETECTABLE WARNINGS ON SIDEWALK RAMPS



SCHEDULE OF QUANTITIES

PAY ITEM	UNIT	71ST
PORTLAND CEMENT CONCRETE SIDEWALK, 5 INCH	SQ FT	715
DETECTABLE WARNINGS	SQ FT	118
COMBINATION CURB AND GUTTER REMOVAL	FOOT	122
SIDEWALK REMOVAL	SQ FT	715
COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12	FOOT	48
COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24	FOOT	76
THERMOPLASTIC PAVEMENT MARKINGS-LINE 6"	FOOT	108
THERMOPLASTIC PAVEMENT MARKINGS-LINE 12"	FOOT	420
THERMOPLASTIC PAVEMENT MARKINGS-LINE 24"	FOOT	121

FILE NAME =	USER NAME =	DESIGNED - SJG	REVISED -
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		DATE - 11-25-2014	REVISED -

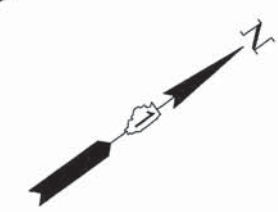
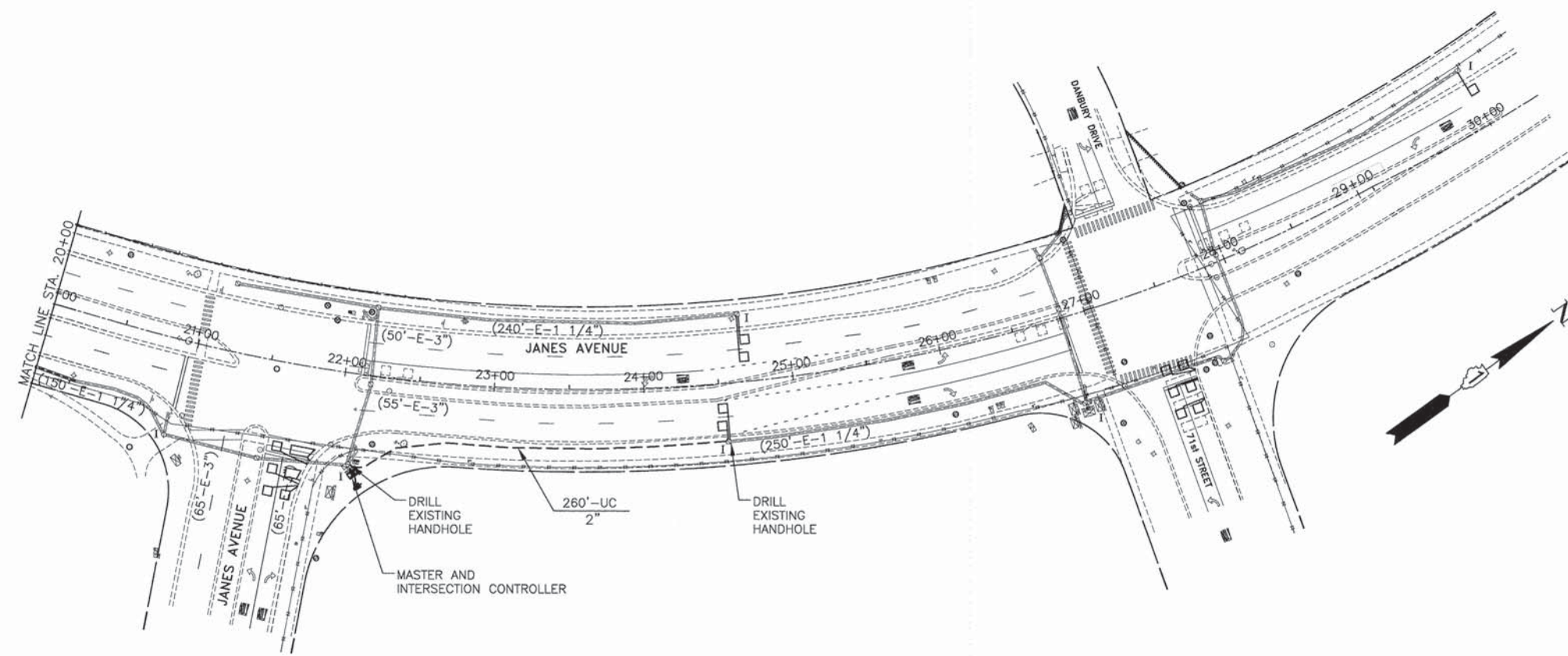
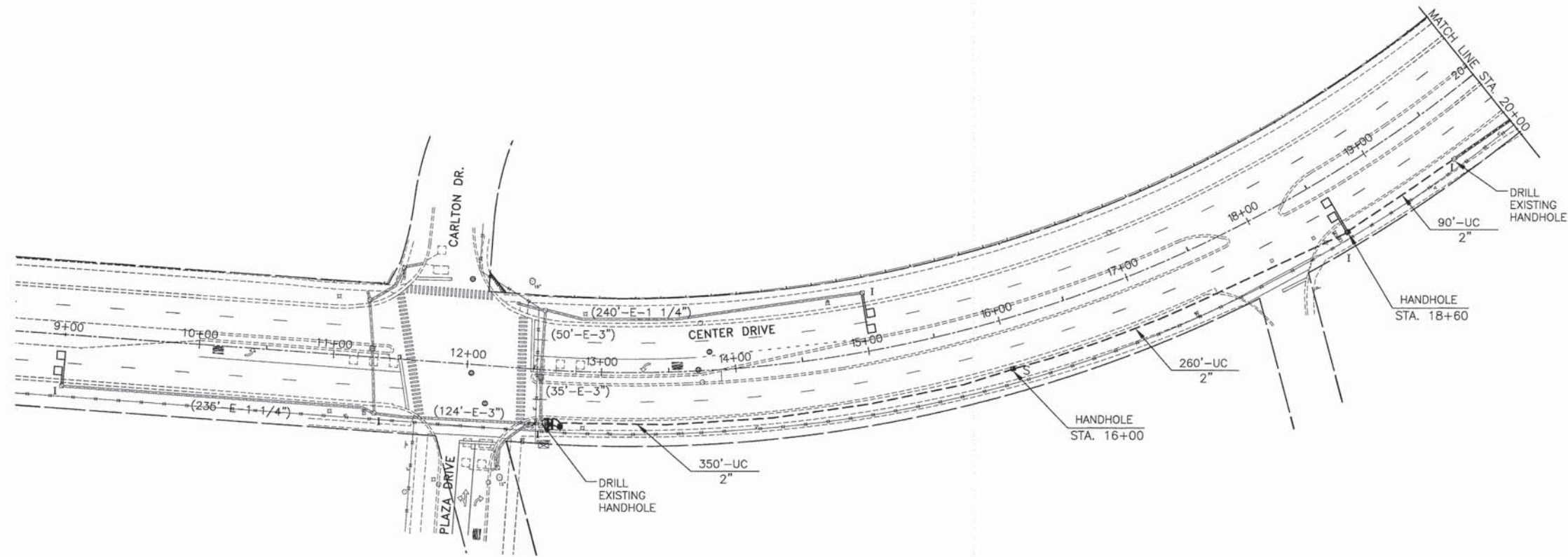
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**SIDEWALK AND PAVEMENT MARKING PLAN
JANES AVENUE AT 71st STREET/DANBURY DRIVE**

SCALE: 1"=20' SHEET NO. 20 OF 24 SHEETS STA. TO STA.

JJB JAMES J. BENES & ASSOCIATES, INC.
950 Warrenville Road, Suite 101, Lisle, Illinois 60532
Tel. (630) 719-7570 • Fax (630) 719-7589

F.A.U. RTE. 2589.8 357.3	SECTION 12-00067-00-TL	COUNTY DuPAGE	TOTAL SHEETS 24	SHEET NO. 20
CONTRACT NO. 63867			ILLINOIS FED. AID PROJECT	



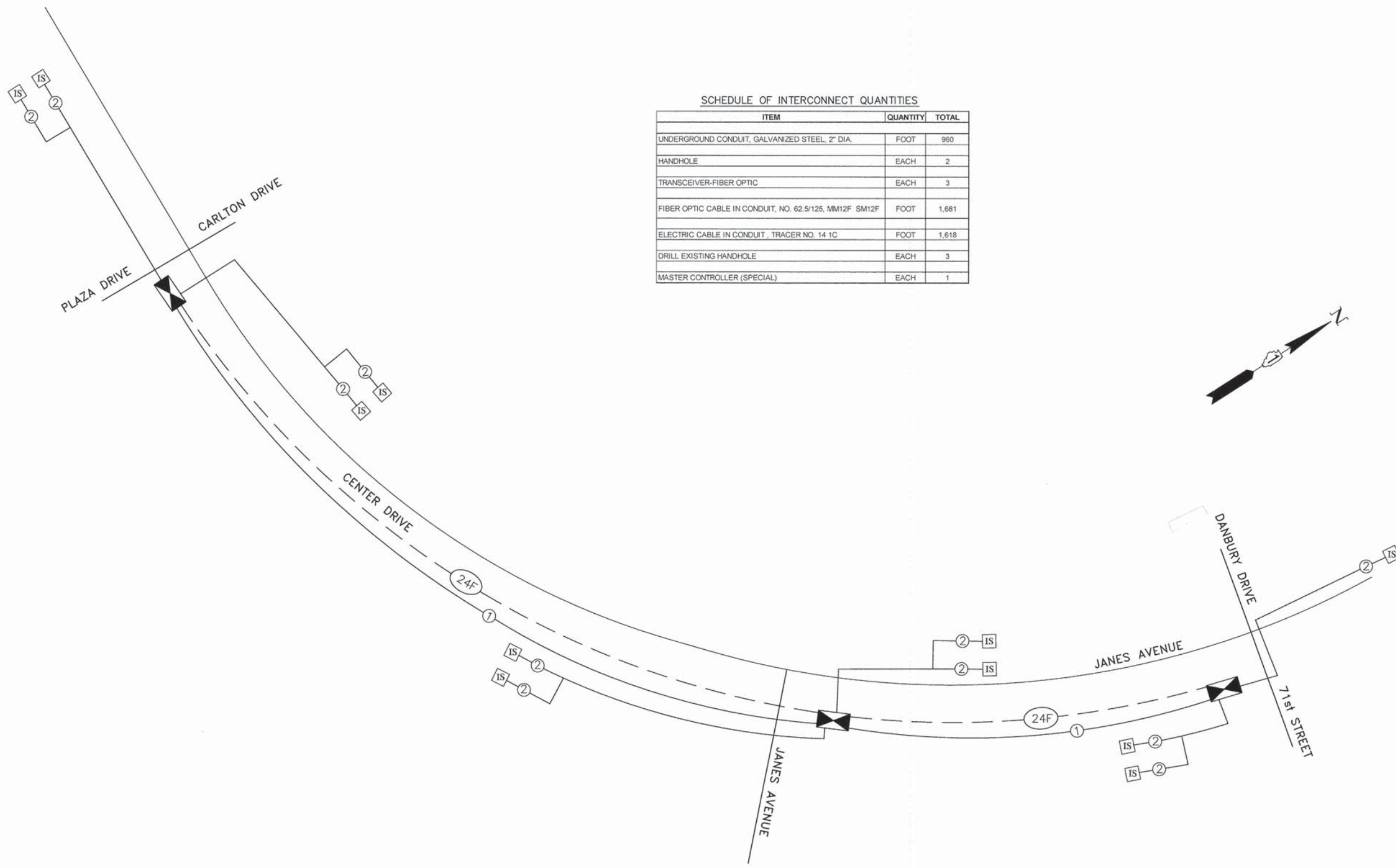
FILE NAME =	USER NAME =	DESIGNED — SJG	REVISED —
		DRAWN — SMP	REVISED —
		CHECKED — SJG	REVISED —
		DATE — 11-25-2014	REVISED —

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**PROPOSED INTERCONNECT PLAN
PLAZA DRIVE TO 71st STREET**

SCALE: 1"=50' SHEET NO. 21 OF 24 SHEETS STA. TO STA.

	JAMES J. BENES & ASSOCIATES, INC. 950 Warrenville Road, Suite 101, Lisle, Illinois 60532 Tel. (630) 719-7570 • Fax (630) 719-7589				
	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2508 3503	12-00067-00-TL	DuPAGE	24	21	
CONTRACT NO. 63867					
ILLINOIS FED. AID PROJECT					



SCHEDULE OF INTERCONNECT QUANTITIES

ITEM	QUANTITY	TOTAL
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	960
HANDHOLE	EACH	2
TRANSCEIVER-FIBER OPTIC	EACH	3
FIBER OPTIC CABLE IN CONDUIT, NO. 62.5/125, MM12F SM12F	FOOT	1,681
ELECTRIC CABLE IN CONDUIT, TRACER NO. 14 1C	FOOT	1,618
DRILL EXISTING HANDHOLE	EACH	3
MASTER CONTROLLER (SPECIAL)	EACH	1

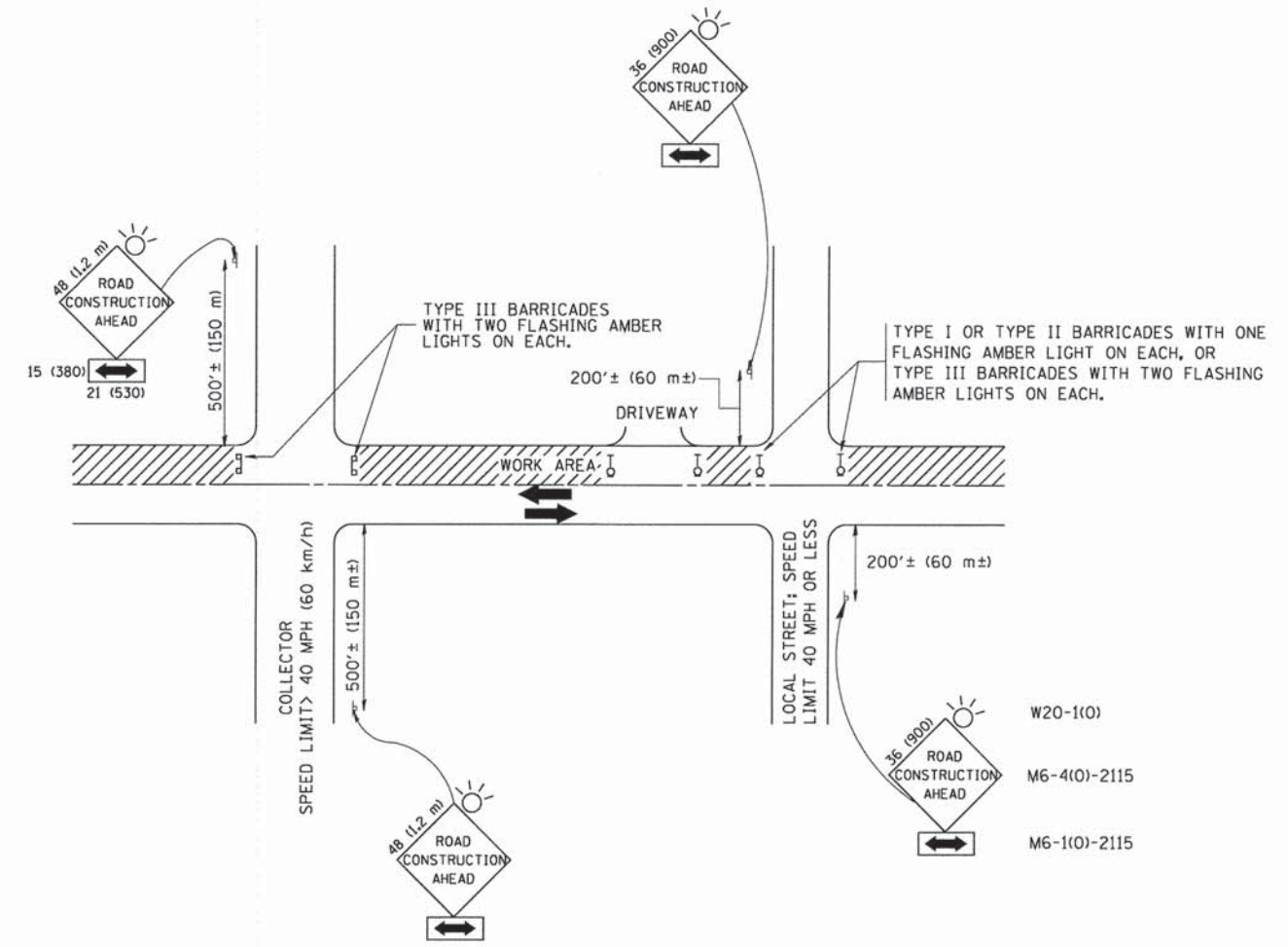
FILE NAME =	USER NAME =	DESIGNED -- SJG	REVISED --
		DRAWN -- SMP	REVISED --
		CHECKED -- SJG	REVISED --
		DATE -- 11-25-2014	REVISED --

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED INTERCONNECT SCHEMATIC
PLAZA DRIVE TO 71st STREET

SCALE: 1"=50' SHEET NO. 22 OF 24 SHEETS STA. TO STA.

	JAMES J. BENES & ASSOCIATES, INC. 950 Warrenville Road, Suite 101, Lisle, Illinois 60532 Tel. (630) 719-7570 • Fax (630) 719-7589				
	F.A.U. RTE. 357.3	SECTION 12-00067-00-TL	COUNTY DuPAGE	TOTAL SHEETS 24	SHEET NO. 22
CONTRACT NO. 63867				ILLINOIS FED. AID PROJECT	



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

NOTES:

- A. FOR NO LANE RESTRICTION ON THE SIDE ROAD OR DRIVEWAYS
- SIDE ROAD WITH A SPEED LIMIT OF 40 MPH (60 km/h) OR LESS AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
 - ONE **ROAD CONSTRUCTION AHEAD** SIGN 36 x 36 (900x900) WITH A FLASHER AND FLAG MOUNTED ON IT APPROXIMATELY 200' (60 m) IN ADVANCE OF THE MAIN ROUTE.
 - THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE I, TYPE II OR TYPE III BARRICADES, 1/3 OF THE CROSS SECTION OF THE CLOSED PORTION.
 - SIDE ROAD WITH A SPEED LIMIT GREATER THAN 40 MPH (60 km/h) AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
 - ONE **ROAD CONSTRUCTION AHEAD** SIGN 48 x 48 (1.2 m x 1.2 m) WITH A FLASHER MOUNTED ON IT APPROXIMATELY 500' (150 m) IN ADVANCE OF THE MAIN ROUTE.
 - THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE III BARRICADES, 1/2 OF THE CROSS SECTION OF THE CLOSED PORTION.
3. WHEN THE SIDE ROAD LIES BETWEEN THE BEGINNING OF THE MAINLINE SIGNING AND THE WORK ZONE, A SINGLE HEADED ARROW (M6-1) SHALL BE USED IN LIEU OF THE DOUBLE HEADED ARROW (M6-4).
- B. FOR A LANE CLOSURE ON A SIDE ROAD OR DRIVEWAY:
- USE APPLICABLE PORTIONS OF THE TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES (STD. 701501, STD. 701606 OR THE APPROPRIATE STANDARD). THE SPACING OF SIGNS AND BARRICADES SHALL BE ADJUSTED FOR FIELD CONDITIONS AS DIRECTED BY THE ENGINEER. THE DIRECTIONAL ARROW SHALL BE COVERED OR REMOVED WHEN NO LONGER CONSISTENT WITH THE SIDE ROAD LANE CLOSURE.
- C. ADVANCE WARNING SIGNS ARE TO BE OMITTED ON DRIVEWAY UNLESS OTHERWISE NOTED.
- D. THE TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS SHALL BE INCIDENTAL TO THE COST OF SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.

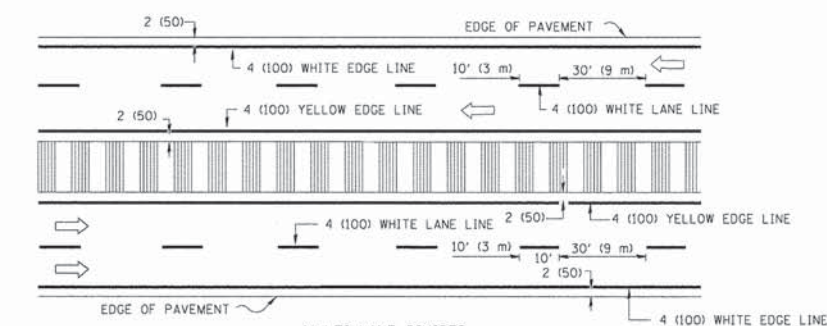
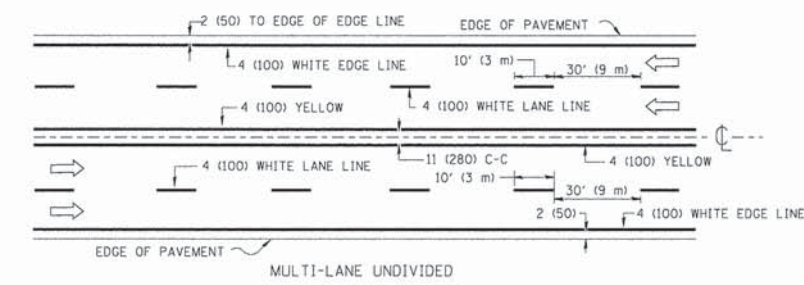
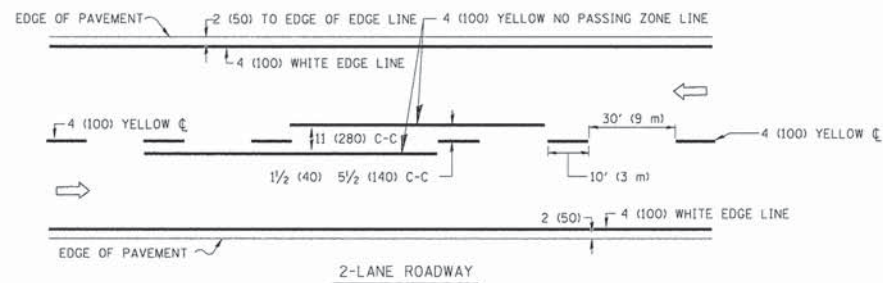
All dimensions are in millimeters (inches) unless otherwise shown.

FILE NAME = W:\diststd\22x34\tc18.dgn	USER NAME = goglienobt	DESIGNED - LHA	REVISED - J. OBERLE 10-18-95
		DRAWN -	REVISED - A. HOUSEH 03-06-96
	PLOT SCALE = 50.000' / IN.	CHECKED -	REVISED - A. HOUSEH 10-15-96
	PLOT DATE = 1/4/2008	DATE - 06-89	REVISED - T. RAMMACHER 01-06-00

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

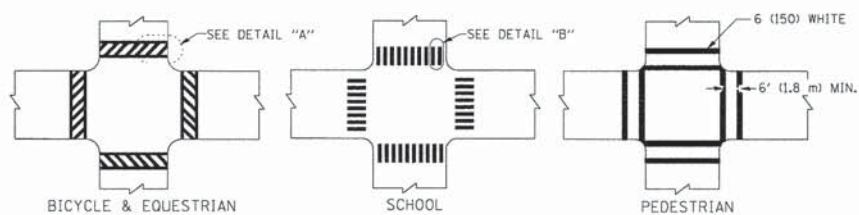
TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS			
SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.

F.A.U. RTE. 2588 & 3573	SECTION 12-00077-00-SW	COUNTY DuPAGE	TOTAL SHEETS 24	SHEET NO. 23
TC-10			CONTRACT NO. 63867	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

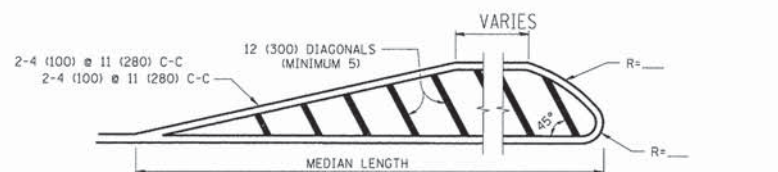
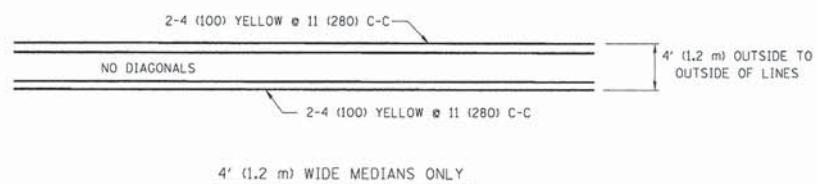


NOTE: MEDIANS WITH BARRIER CURB DO NOT REQUIRE AN EDGE LINE

TYPICAL LANE AND EDGE LINE MARKING

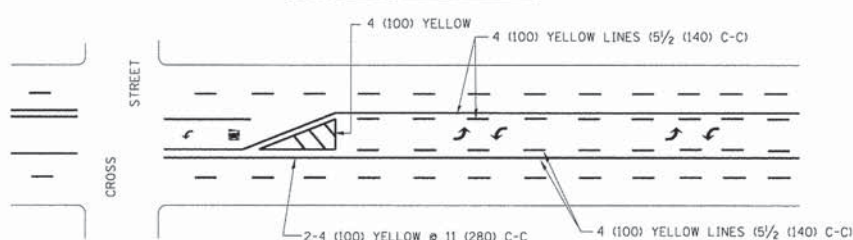


TYPICAL CROSSWALK MARKING

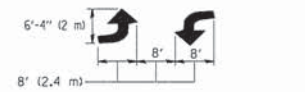


FOR MEDIAN LENGTHS WHERE DIAGONAL SPACING CANNOT BE ATTAINED, USE 5 (FIVE) EQUALLY SPACED DIAGONAL LINES.
 DIAGONAL LINE SPACING: 50' (15 m) C-C (LESS THAN 30MPH (50 km/h))
 75' (25 m) C-C 30MPH (50 km/h) TO 45MPH (70 km/h)
 150' (45 m) C-C (MORE THAN 45MPH (70 km/h))

MEDIANS OVER 4' (1.2 m) WIDE

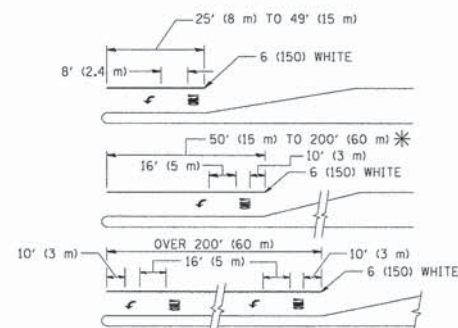


A MINIMUM OF TWO PAIRS OF TURN ARROWS SHALL BE USED, WHITE IN COLOR. ADDITIONAL PAIRS SHALL BE PLACED AT 200' (60 m) TO 300' (90 m) INTERVALS.



MEDIAN WITH TWO-WAY LEFT TURN LANE

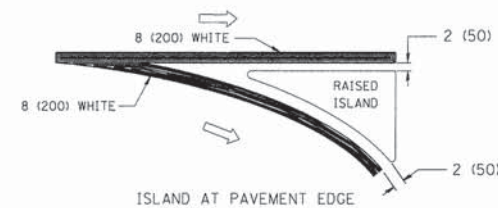
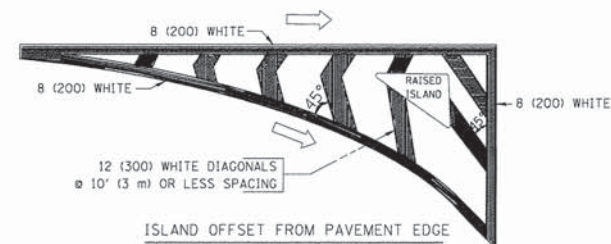
TYPICAL PAINTED MEDIAN MARKING



FULL SIZE LETTERS 8" (2.4 m) AND ARROWS SHALL BE USED.
 * TURN LANES IN EXCESS OF 400' (120 m) IN LENGTH MAY HAVE AN ADDITIONAL SET OF ARROW - "ONLY" INSTALLED MIDWAY BETWEEN THE OTHER TWO SETS OF ARROW - "ONLY".

TYPICAL LEFT (OR RIGHT) TURN LANE

TYPICAL TURN LANE MARKING



TYPICAL ISLAND MARKING

TYPE OF MARKING	WIDTH OF LINE	PATTERN	COLOR	SPACING / REMARKS
CENTERLINE ON 2 LANE PAVEMENT	4 (100)	SKIP-DASH	YELLOW	10' (3 m) LINE WITH 30' (9 m) SPACE
CENTERLINE ON MULTI-LANE UNDIVIDED PAVEMENT	2 @ 4 (100)	SOLID	YELLOW	11 (280) C-C
NO PASSING ZONE LINES: FOR ONE DIRECTION FOR BOTH DIRECTIONS	4 (100) 2 @ 4 (100)	SOLID SOLID	YELLOW YELLOW	5/2 (140) C-C FROM SKIP-DASH CENTERLINE 11 (280) C-C OMIT SKIP-DASH CENTERLINE BETWEEN
LANE LINES	4 (100) 5 (125) ON FREEWAYS	SKIP-DASH SKIP-DASH	WHITE WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE
DOTTED LINES (EXTENSIONS OF CENTER, LANE OR TURN LANE MARKINGS)	SAME AS LINE BEING EXTENDED	SKIP-DASH	SAME AS LINE BEING EXTENDED	2' (600) LINE WITH 6' (1.8 m) SPACE
EDGE LINES	4 (100)	SOLID	YELLOW-LEFT WHITE-RIGHT	OUTLINE MOUNTABLE MEDIANS IN YELLOW; EDGE LINES ARE NOT USED NEXT TO BARRIER CURB
TURN LANE MARKINGS	6 (150) LINE; FULL SIZE LETTERS & SYMBOLS (8" (2.4m))	SOLID	WHITE	SEE TYPICAL TURN LANE MARKING DETAIL
TWO WAY LEFT TURN MARKING	2 @ 4 (100) EACH DIRECTION 8' (2.4m) LEFT ARROW	SKIP-DASH AND SOLID IN PAIRS	YELLOW WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE FOR SKIP-DASH; 5/2 (140) C-C BETWEEN SOLID LINE AND SKIP-DASH LINE SEE TYPICAL TWO-WAY LEFT TURN MARKING DETAIL
CROSSWALK LINES (PEDESTRIAN) A. DIAGONALS (BIKE & EQUESTRIAN) B. LONGITUDINAL BARS (SCHOOL)	2 @ 6 (150) 12 (300) @ 45° 12 (300) @ 90°	SOLID SOLID SOLID	WHITE WHITE WHITE	NOT LESS THAN 6' (1.8 m) APART 2' (600) APART 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.

FILE NAME =	USER NAME = drivakosgn	DESIGNED - EVERS	REVISED - T. RAMMACHER 10-27-94
al:\pw_work\p\sidot\drivakosgn\d0188315\to3.dgn		DRAWN -	REVISED - C. JUCIUS 09-09-09
		CHECKED -	REVISED -
		DATE - 03-19-90	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT ONE			
TYPICAL PAVEMENT MARKINGS			
SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA. TO STA.	

F.A.U. RTE. 2588 & 3573	SECTION 12-00067-00-TL	COUNTY DuPAGE	TOTAL SHEETS 24	SHEET NO. 24
TC-13			CONTRACT NO. 63867	
FED. ROAD DIST. NO. 1 [ILLINOIS] FED. AID PROJECT				