

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	**	LA SALLE	48	1

* FAP 68 & 68 ALT (IL 23 NB & SB)
 ** (35, 51 & 48 CS, 1Z)TS

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24. TRAFFIC SIGNAL DETAILS (LASALLE STREET AND MAIN STREET)
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26. CABLE PLAN (COLUMBUS STREET AND MAIN STREET)
27. TRAFFIC SIGNAL DETAILS (COLUMBUS STREET AND MAIN STREET)
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44. CABLE PLAN (COLUMBUS STREET AND SUPERIOR STREET)
45. TRAFFIC SIGNAL DETAILS (COLUMBUS STREET AND SUPERIOR STREET)
46. -48. TRAFFIC SIGNAL INTERCONNECT PLAN

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

**PROPOSED
 HIGHWAY PLANS**

**FAP 68 & 68 ALT (IL 23 NB & SB)
 SECTION (35, 51 & 48 CS, 1Z)TS
 LA SALLE COUNTY**

**C-93-063-08
 PROJECT HSIP-0068 (104)**

HIGHWAY STANDARDS

- 000001-05 Standard Symbols, Abbreviations, and Patterns
- 424001-05 Curb Ramps for Sidewalks
- 701501-05 Urban Lane Closure, 2L, 2W, Undivided
- 701601-06 Urban Lane Closure, Multilane, 1W or 2W with Nontraversable Median
- 701701-06 Urban Lane Closure, Multilane Intersection
- 701801-04 Lane Closure, Multilane 1W or 2W, Crosswalk or Sidewalk Closure
- 701901-01 Traffic Control Devices
- 720001-01 Sign Panel Mounting Details
- 720016-02 Mast Arm Mounted Street Name Signs
- 805001-01 Electric Service Installation Details
- 814001-02 Handholes
- 814006-02 Double Handholes
- 857001-01 Standard Phase Designation Diagrams and Phase Sequences
- 862001-01 Uninterruptible Power Supply (UPS)
- 873001-02 Traffic Signal Grounding & Bonding
- 877001-04 Steel Mast Arm Assembly and Pole 16' thru 55'
- 877006-03 Steel Mast Arm Assembly and Pole with Dual Mast Arms
- 878001-07 Concrete Foundation Details
- 880006-01 Traffic Signal Mounting Details

MICROFILMED _____
 REEL NUMBER _____
 AWARDED _____
 RESIDENT ENGINEER _____
 AS BUILT CHANGES WERE MADE
 ON THE FOLLOWING SHEETS _____

**DISTRICT 3 NO. (815) 434-6131
 PROJECT ENGINEER: TOM HUFNAGEL
 UNIT CHIEF: DAN DEVINE**

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



**JORGE SANCHEZ
 CHAMLIN & ASSOCIATES
 (815)223-3344**

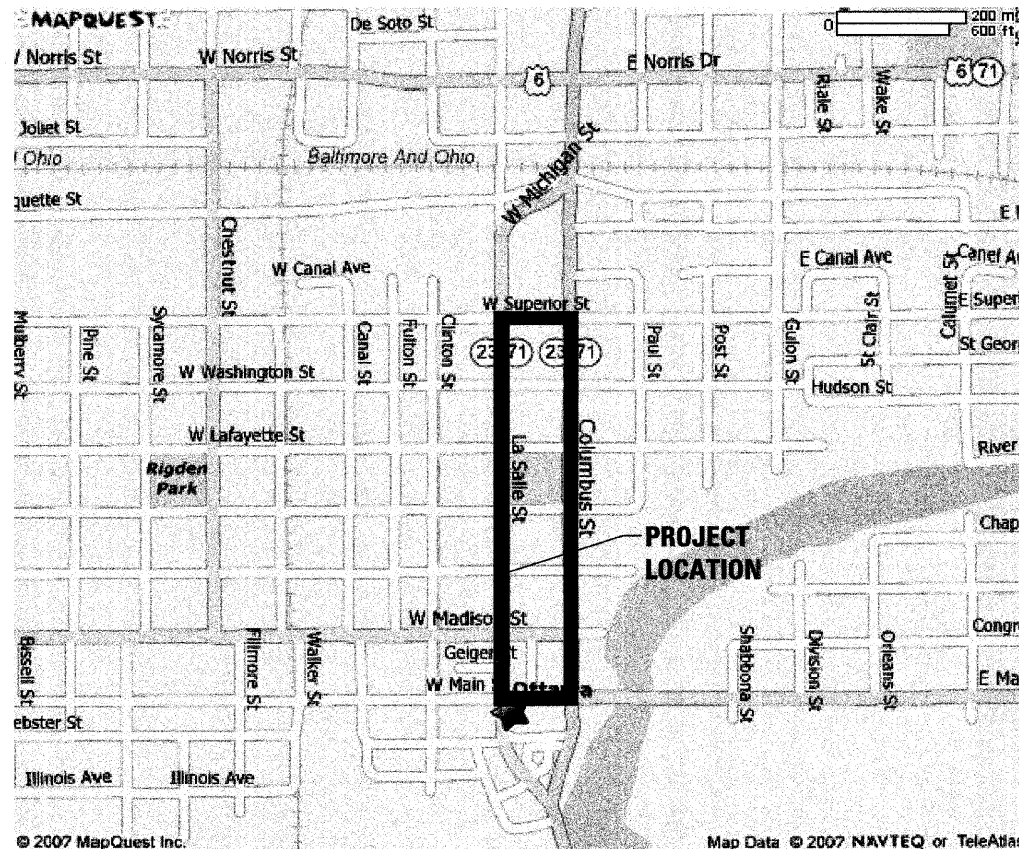
CONTRACT NO. 66769

LASALLE COUNTY

SECTION: (35, 51 & 48 CS, 1Z)TS

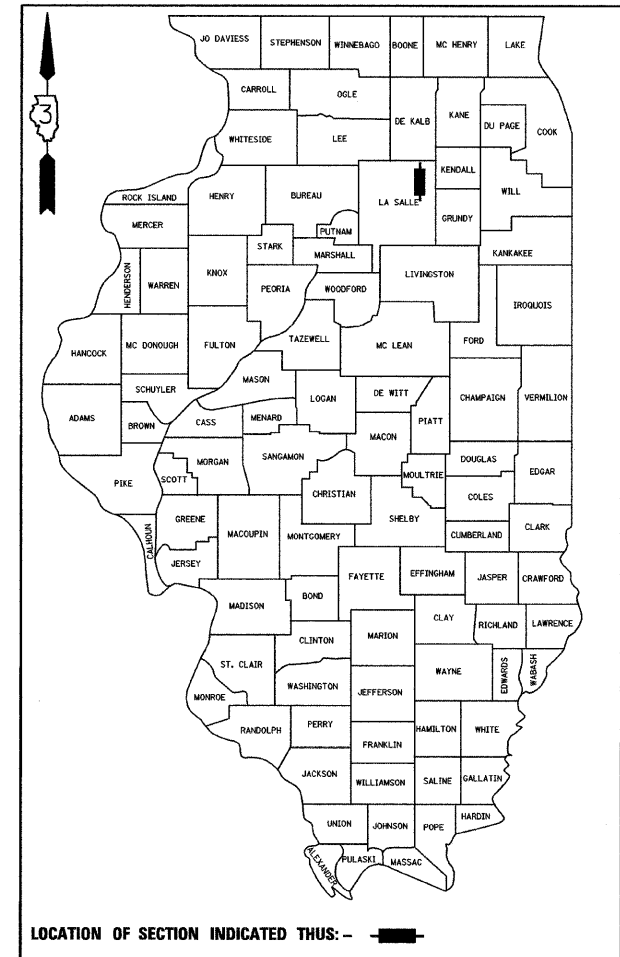
ROUTE: FAP 68 & 68 ALT (IL 23 NB & SB)

TRAFFIC SIGNAL MODERNIZATION



LOCATION MAP

D-93-038-08



LOCATION OF SECTION INDICATED THUS: — ■ —

OTHER PRINCIPAL ARTERIAL
 FAP 68 (IL 23 NB)
 ADT = 16,000
 FAP 68 ALT (IL 23 SB)
 ADT = 16,600

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAYS**
 SUBMITTED 12/10 2008
George F. Ryan
 DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER
January 30, 2009
Charles J. Ingersoll
 ENGINEER OF DESIGN AND ENVIRONMENT
January 30, 2009
Christine M. Reed
 DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

12-8-2008
 date
JORGE L. SANCHEZ
 LICENSED PROFESSIONAL ENGINEER
 NO. 062-055412
 STATE OF ILLINOIS
 expires 11-30-2009

George J. Sanchez
 signature
 PROFESSIONAL DESIGN FIRM
 LICENSE NO. 184-001717

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 OF THE STATE OF ILLINOIS**

GENERAL NOTES

COMMITMENTS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	**	LA SALLE	48	2
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

NONE

* FAP 68 & 68 ALT (IL 23 NB & SB)
 ** (35, 51 & 48 CS, 12)TS

1. THE CONTRACTOR SHALL VERIFY THE EXACT LOCATION OF ALL UNDERGROUND UTILITIES PRIOR TO BEGINNING CONSTRUCTION (J.U.L.I.E. 800/892-0123). CONTACT IDOT FOR HIGHWAY LIGHTING LOCATE.
2. MEMBERS OF JULIE KNOWN TO BE WITHIN THE LIMITS OF THE IMPROVEMENT ARE: COM ED, COMCAST, NICOR GAS, CITY OF OTTAWA.
3. ALL TRAFFIC SIGNAL HEADS SHALL BE 12", UNLESS OTHERWISE NOTED.
4. ALL SIGNAL BASES SHALL BE LOCATED AT 6 FOOT MINIMUM CLEARANCE FROM CURB UNLESS OTHERWISE DIRECTED BY ENGINEER.
5. ALL CONDUIT IN TRENCH SHALL BE P.V.C. ALL CONDUIT PUSHED MAY BE GALVANIZED STEEL OR P.V.C. CONDUIT ATTACHED TO STRUCTURES SHALL BE GALVANIZED STEEL.
6. A 1/4" DIAMETER CONTINUOUS NYLON ROPE SHALL BE FURNISHED AND LEFT IN PLACE IN ALL CONDUITS BETWEEN HANDHOLES AND FOUNDATIONS OR CONTROLLER AS INCIDENTAL TO THE RESPECTIVE CONDUIT PAY ITEM.
7. THE PROPOSED TRAFFIC SIGNAL CONTROL CABINET SHALL BE FURNISHED WITH A MANUAL CONTROL SWITCH AND MANUAL CONTROL CORD WITHIN THE POLICE DOOR COMPARTMENT AS INCIDENTAL TO THE CONTROL CABINET PAY ITEM.
8. THE CONTRACTOR SHALL ARRANGE FOR A FACTORY OR SUPPLIER REPRESENTATIVE TO BE PRESENT AT THE INTERSECTION WHEN THE SIGNAL IS TURNED ON, INCIDENTAL TO THE CONTROLLER PAY ITEM.
9. THE DEPARTMENT OF TRANSPORTATION (815-434-8505) SHALL BE NOTIFIED AT LEAST 72 HOURS PRIOR TO THE TURNING ON OF THE CONTROLLER UNIT.
10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPORTING THE NEW ELECTRICAL LOADS FOR THE UNMETERED SERVICES ON THIS IMPROVEMENT TO THE UTILITY COMPANY AND AGENCY RESPONSIBLE FOR ENERGY CHARGES: CITY OF OTTAWA, 301 WEST MADISON STREET, OTTAWA, IL. 61350.
11. NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR PLACING CONDUIT AT GREATER THAN 2 FEET MINIMUM DEPTH TO AVOID OBSTACLES SUCH AS UNDERGROUND UTILITIES.
12. ALL MAST ARM SIGNAL HEADS ON AN INDIVIDUAL MAST ARM SHALL BE MOUNTED SO THAT THE "RED" INDICATIONS ARE LEVEL WITH EACH OTHER.
13. THE ELECTRICAL CONDUCTORS FOR ALL TRAFFIC SIGNAL HEADS SHALL BE SOLID, SOFT COPPER.
14. THE CONTRACTOR IS RESPONSIBLE FOR THE COST OF UNCOVERING OR HAND DIGGING AROUND UTILITIES, AS NECESSARY, INCIDENTAL TO THE CONDUIT PAY ITEM.
15. ALL THREADS OF BOLTS USED IN TRAFFIC COMPONENT ASSEMBLIES SHALL BE COATED WITH A NON-LEAD BASED ANTI-SEIZE COMPOUND, SIMILAR TO LEAD PLATE, PRIOR TO ASSEMBLY.
16. THE CONTROLLER CABINET SHALL BE PLACED SO THAT A TECHNICIAN MAY SEE THE INTERSECTION OVER THE TOP OF THE CABINET WHILE WATCHING THE COMPONENTS IN THE CABINET.
17. BACK PLATES MUST BE POLYCARBONATE WITH A DEEP BACK FLANGE.
18. THE CONTRACTOR SHALL PROVIDE 3 FEET SLACK CABLE IN EACH TRAFFIC SIGNAL STRUCTURE: MAST ARM, POST, CONTROLLER. THE SLACK, WHICH IS IN ADDITION TO THE VERTICAL LENGTH OF CABLE DEFINED IN THE SPECIFICATIONS, SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE FOR EACH CABLE.
19. ALL EXISTING HANDHOLES WHICH ARE TO BE RE-USED SHALL BE THOROUGHLY CLEANED OF ANY ACCUMULATION OF SILT, DEBRIS, OR FOREIGN MATTER OF ANY KIND AND HAVE NEW AGGREGATE PLACED IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS. EXISTING GROUND RODS SHALL BE RE-SET TO PROJECT ONLY TEN(10) INCHES OF ROD ABOVE HANDHOLE BASE OR PROVIDED IF NOT PRESENT. THIS WORK SHALL NOT BE PAID FOR SEPERATELY BUT CONSIDERED INCLUDED WITH THE COST OF THE ASSOCIATED TRAFFIC SIGNAL PAY ITEM.
20. ALL HANDHOLES WHICH ARE TO BE ADJUSTED WITH NEW FRAME AND COVER SHALL BE IN ACCORDANCE WITH APPLICABLE SECTIONS OF THE SPECIAL PROVISION FOR HANDHOLE, PORTLAND CEMENT CONCRETE OR DOUBLE HANDHOLE, PORTLAND CEMENT CONCRETE. THE INSTALLATION OF NEW FRAME AND COVER SHALL INCLUDE THE REMOVAL AND RECONSTRUCTION OF THE UPPER 12" OF HANDHOLE OR AS DIRECTED BY THE ENGINEER.

21. ALL GROUNDING MATERIALS FOR TRAFFIC SIGNAL CONCRETE FOUNDATIONS SHALL REFER TO SECTION 807 IN THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION ADOPTED JANUARY 1, 2007.
22. THE CONTRACTOR SHALL PROVIDE A SELF-ADHERED PHASE DIAGRAM ON THE INSIDE OF THE CONTROLLER CABINET DOOR.
23. SIGNAL AND PEDESTRIAN HEADS SHALL HAVE BLACK HOUSING AND BLACK POLYCARBONATE BRACKETS.
24. RELOCATION OF EXISTING TRAFFIC SIGNAGE ONTO PROPOSED TRAFFIC SIGNAL POSTS SHALL NOT BE PAID FOR SEPARATELY BUT CONSIDERED INCLUDED IN THE COST OF THE ASSOCIATED TRAFFIC SIGNAL PAY ITEMS.
25. ABANDONED UNDERGROUND UTILITIES THAT CONFLICT WITH CONSTRUCTION SHALL BE DISPOSED OF OUTSIDE THE LIMITS OF THE RIGHT OF WAY ACCORDING TO ARTICLE 202.03 OF THE STANDARD SPECIFICATIONS AND AS DIRECTED BY THE ENGINEER. THIS WORK WILL NOT BE PAID FOR SEPARATELY BUT CONSIDERED INCLUDED IN THE COST OF THE ASSOCIATED TRAFFIC SIGNAL PAY ITEMS.
26. SEEDING SHALL NOT BE PERMITTED AT ANY TIME WHEN THE GROUND IS FROZEN, WET, OR IN AN UNTILLABLE CONDITION. LOCATIONS TO BE SEEDED WILL BE DETERMINED BY THE ENGINEER.
27. THE FINISHED EARTHWORK SHALL HAVE A VEGETATION SUSTAINING SOIL COVERING THE TOP FOUR INCHES IN AREAS TO BE SEEDED OR SODDED. THE VEGETATION SUSTAINING SOIL REQUIRED WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE COST OF THE ASSOCIATED TRAFFIC SIGNAL PAY ITEMS.
28. ANY REFERENCE TO A STANDARD IN THESE PLANS SHALL BE INTERPRETED TO MEAN THE EDITION AS INDICATED BY THE SUBNUMBER SHOWN IN THE LIST OF STANDARDS INCLUDED IN THESE PLANS.
29. FOR NEW CONSTRUCTION, PLACE CURB RAMPS FOR SIDEWALKS (STANDARD 424001) AT ALL LOCATIONS WHERE PROPOSED SIDEWALK ABUTS CURB AT STREET ENTRANCES.
30. ALL TRAFFIC SIGNAL POSTS, MAST ARMS AND CABINETS (INCLUDING BATTERY BACKUP CABINETS) SHALL BE PAINTED DARK BRONZE AS DIRECTED BY THE CITY OF OTTAWA.
31. ALL FIBER OPTIC CABLE RUNS SHALL INCLUDE A SINGLE NO. 14 TRACER WIRE. THIS SHALL BE PAID FOR PER LINEAL FOOT AS ELECTRIC CABLE IN CONDUIT, TRACER NO. 14 1C.
32. THE USE OF BRACKET EXTENSIONS MAY BE REQUIRED TO ALIGN PEDESTRIAN SIGNAL HEADS WITH CROSSWALKS IN ORDER TO ENSURE PEDESTRIAN VISIBILITY. THE COST OF ANY ADDITIONAL BRACKET EXTENSIONS OR COMPONENTS SHALL BE CONSIDERED INCLUDED WITH THE COST OF THE ASSOCIATED TRAFFIC SIGNAL PAY ITEM.
33. WHERE EXISTING FOUNDATIONS ARE TO BE RE-USED. THE CONTRACTOR SHALL MEASURE AND PROVIDE BOLT PATTERN DETAILS TO POST SUPPLIER PRIOR TO FABRICATION TO ENSURE COMPATABILITY.
34. PEDESTRIAN SIGNALS SHALL BE 16" X 18", 1-FACE, 1-SECTION, LED, COUNTDOWN TIMER HEADS.
35. THE CONTRACTOR SHALL LOCATE PROPOSED POST LOCATIONS AND NOTIFY THE CITY OF OTTAWA WATER DEPT. SUPERINTENDENT BOB RICK AT 815-434-0025, EXT. 10 OR 815-481-6215 AT LEAST 1 WEEK PRIOR TO DIGGING AT EACH INTERSECTION IN ORDER TO LOCATE CITY UTILITIES MORE ACCURATELY AND COORDINATE WORK WHERE NECESSARY. THE CONTRACTOR SHOULD BE AWARE THAT THE WATER MAIN WITHIN THE PROJECT LIMITS ARE 6" IN DIAMETER AND LOCATED APPROXIMATELY 3'-3.5' FEET DEEP.
36. THE CONTRACTOR SHALL TRY TO MAINTAIN 18" OF LATERAL SEPERATION BETWEEN ALL TRAFFIC SIGNAL EQUIPMENT INSTALLATIONS AND WATER MAINS. WHERE THE PREFERED LATERAL SEPERATION OF CONDUITS AND WATER MAINS IS NOT FEASIBLE, THE PREFERENCE IS THAT THE CONDUIT BE LOCATED ABOVE AND INLINE WITH THE WATER MAIN.

ALL UNINTERRUPTABLE POWER SUPPLIES SHALL BE EQUIPPED WITH ALPHAGUARD MONITORS

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAYS
 DISTRICT THREE

PREPARED BY: Bruce A. Huch
 DISTRICT OPERATIONS ENGINEER

DATE: 12/12/08

EXAMINED BY: [Signature]
 DISTRICT CONSTRUCTION ENGINEER

[Signature]
 DISTRICT MATERIALS ENGINEER

[Signature]
 DISTRICT STUDIES & PLANS ENGINEER

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 GENERAL NOTES
 FAP 68 & 68 ALT
 (IL 23 NB & SB)
 SECTION (35, 51 & 48 CS, 12)TS
 LA SALLE COUNTY

SCALE: VERT. 1" = 20'
 HORIZ. 1" = 20'
 DATE 11/08

DRAWN BY ARR
 CHECKED BY JLS

PLOT DATE = 11/08
 FILE NAME = D366769-SHT-GENNOTES.DGN
 USER = JLS
 USER NAME = JLS

SUMMARY OF QUANTITIES

URBAN

URBAN

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	**	LA SALLE	48	3
STA.		TO STA.		
FED. ROAD DIST. NO. -		ILLINOIS FED. AID PROJECT		
* FAP 68 & 68 ALT (IL 23 NB & SB)				
** (35, 51 & 48 CS, 12)TS				

ITEM NO.	DESCRIPTION	UNIT	TOTAL QUANTITY	Y031-IF ① SEQ 1	Y031-IF ② SEQ 2
42400100	PORTLAND CEMENT CONCRETE SIDEWALK 4 INCH	SQ FT	2948.9	2948.9	--
42400800	DETECTABLE WARNINGS	SQ FT	12	12	--
44000600	SIDEWALK REMOVAL	SQ FT	3243	3243	--
50200400	ROCK EXCAVATION FOR STRUCTURES	CU YD	42.8	42.8	--
67100100	MOBILIZATION	L SUM	1	1	--
70102620	TRAFFIC CONTROL AND PROTECTION STANDARD 701501	L SUM	1	1	--
70102630	TRAFFIC CONTROL AND PROTECTION STANDARD 701601	L SUM	1	1	--
70102635	TRAFFIC CONTROL AND PROTECTION STANDARD 701701	L SUM	1	1	--
70102640	TRAFFIC CONTROL AND PROTECTION STANDARD 701801	L SUM	1	1	--
*72000100	SIGN PANEL - TYPE 1	SQ FT	597.5	597.5	--
80500200	SERVICE INSTALLATION, TYPE B	EACH	6	6	--
81012600	CONDUIT IN TRENCH, 2" DIA., PVC	FOOT	1362	1362	--
81012700	CONDUIT IN TRENCH, 2 1/2" DIA., PVC	FOOT	41	41	--
81012800	CONDUIT IN TRENCH, 3" DIA., PVC	FOOT	54	54	--
81013000	CONDUIT IN TRENCH, 4" DIA., PVC	FOOT	78	78	--
81021330	CONDUIT PUSHED, 2" DIA., PVC	FOOT	4026	4026	--
81021340	CONDUIT PUSHED, 2 1/2" DIA., PVC	FOOT	335	335	--
81021350	CONDUIT PUSHED, 3" DIA., PVC	FOOT	1867	1867	--
81021370	CONDUIT PUSHED, 4" DIA., PVC	FOOT	1118	1118	--
81400700	HANDHOLE, PORTLAND CEMENT CONCRETE	EACH	32	32	--
81400720	DOUBLE HANDHOLE, PORTLAND CEMENT CONCRETE	EACH	12	12	--
81900200	TRENCH AND BACKFILL FOR ELECTRICAL WORK	FOOT	1500	1500	--
85000200	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	14	14	--
85700205	FULL-ACTUATED CONTROLLER AND TYPE IV CABINET, SPECIAL	EACH	14	14	--
86000100	MASTER CONTROLLER	EACH	1	1	--
86200300	UNINTERRUPTABLE POWER SUPPLY, EXTENDED	EACH	14	14	--
86400100	TRANSCEIVER-FIBER OPTIC	EACH	14	14	--
87100160	FIBER OPTIC CABLE IN CONDUIT, 62.5/125, 24F	FOOT	6198	6198	--
87301225	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	16339	16339	--
87301245	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	20209.5	20209.5	--
87301255	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	891.5	891.5	--
87301805	ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2C	FOOT	4128	4128	--

ITEM NO.	DESCRIPTION	UNIT	TOTAL QUANTITY	Y031-IF ① SEQ 1	Y031-IF ② SEQ 2
87502270	TRAFFIC SIGNAL POST, PAINTED STEEL 12 FT.	EACH	19	19	--
87502310	TRAFFIC SIGNAL POST, PAINTED STEEL 16 FT.	EACH	11	11	--
87700140	STEEL MAST ARM ASSEMBLY AND POLE, 20 FT.	EACH	1	1	--
87700180	STEEL MAST ARM ASSEMBLY AND POLE, 28 FT.	EACH	1	1	--
87700190	STEEL MAST ARM ASSEMBLY AND POLE, 30 FT.	EACH	2	2	--
87700220	STEEL MAST ARM ASSEMBLY AND POLE, 36 FT.	EACH	1	1	--
87700230	STEEL MAST ARM ASSEMBLY AND POLE, 38 FT.	EACH	1	1	--
87700250	STEEL MAST ARM ASSEMBLY AND POLE, 42 FT.	EACH	2	2	--
87700260	STEEL MAST ARM ASSEMBLY AND POLE, 44 FT.	EACH	3	3	--
87700270	STEEL MAST ARM ASSEMBLY AND POLE, 46 FT.	EACH	1	1	--
87700300	STEEL MAST ARM ASSEMBLY AND POLE, 52 FT.	EACH	1	1	--
87700310	STEEL MAST ARM ASSEMBLY AND POLE, 54 FT.	EACH	1	1	--
87800100	CONCRETE FOUNDATION, TYPE A	FOOT	75	75	--
87800150	CONCRETE FOUNDATION, TYPE C	FOOT	45.5	45.5	--
87800415	CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	357	357	--
87900100	DRILL EXISTING FOUNDATION	EACH	5	5	--
87900200	DRILL EXISTING HANDHOLE	EACH	69	69	--
88040070	SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	14	14	--
88040090	SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED	EACH	92	92	--
88040150	SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	2	2	--
88040160	SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED	EACH	2	2	--
88700200	LIGHT DETECTOR	EACH	40	--	40
88700300	LIGHT DETECTOR AMPLIFIER	EACH	14	--	14
88200410	TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC	EACH	110	110	--
89502300	REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	32947.5	32947.5	--
89502375	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	14	14	--
89502380	REMOVE EXISTING HANDHOLE	EACH	53	53	--
89502385	REMOVE EXISTING CONCRETE FOUNDATION	EACH	78	78	--
X0322925	ELECTRIC CABLE IN CONDUIT, TRACER, NO. 14 1C	FOOT	6198	6198	--
X8730027	ELECTRIC CABLE IN CONDUIT, GROUNDING, NO. 6 1C	FOOT	5484.5	5484.5	--
X0326300	ELECTRIC CABLE IN CONDUIT, COMMUNICATION NO. 20 3/C, TWISTED, SHIELDED	FOOT	7137	--	7137
XX002852	RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM	EACH	14	14	--

URBAN

ITEM NO.	DESCRIPTION	UNIT	TOTAL QUANTITY	Y031-IF ① SEQ 1	Y031-IF ② SEQ 2
XX006533	PEDESTRIAN SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, BRACKET MOUNTED, COUNTDOWN TIMER	EACH	112	112	--
XX006668	HANDHOLE TO BE ADJUSTED WITH NEW FRAME AND COVER	EACH	16	16	--
X0326277	STEEL MAST ARM ASSEMBLY AND POLE WITH DUAL MAST ARMS, 24 FT. AND 58 FT.	EACH	1	1	--
X0326278	STEEL MAST ARM ASSEMBLY AND POLE WITH DUAL MAST ARMS, 34 FT. AND 50 FT.	EACH	1	1	--
X0326279	STEEL MAST ARM ASSEMBLY AND POLE WITH DUAL MAST ARMS, 36 FT. AND 59 FT.	EACH	1	1	--
X0326280	STEEL MAST ARM ASSEMBLY AND POLE WITH DUAL MAST ARMS, 38 FT. AND 54 FT.	EACH	1	1	--
X0326281	STEEL MAST ARM ASSEMBLY AND POLE WITH DUAL MAST ARMS, 42 FT. AND 56 FT.	EACH	1	1	--
X0326282	STEEL MAST ARM ASSEMBLY AND POLE WITH DUAL MAST ARMS, 42 FT. AND 58 FT.	EACH	2	2	--
X0326283	STEEL MAST ARM ASSEMBLY AND POLE WITH DUAL MAST ARMS, 42 FT. AND 60 FT.	EACH	1	1	--
X0326284	STEEL MAST ARM ASSEMBLY AND POLE WITH DUAL MAST ARMS, 44 FT. AND 48 FT.	EACH	1	1	--
X0326285	STEEL MAST ARM ASSEMBLY AND POLE WITH DUAL MAST ARMS, 44 FT. AND 60 FT.	EACH	1	1	--
X0326286	STEEL MAST ARM ASSEMBLY AND POLE WITH DUAL MAST ARMS, 46 FT. AND 57 FT.	EACH	2	2	--
X0326287	STEEL MAST ARM ASSEMBLY AND POLE WITH DUAL MAST ARMS, 50 FT. AND 54 FT.	EACH	1	1	--

LEGEND

- ① 90% FED 10% STATE
- ② 100% CITY

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 SUMMARY OF QUANTITIES
 FAP 68 & 68 ALT
 (IL 23 NB & SB)
 SECTION (35, 51 & 48 CS, 12)TS
 LA SALLE COUNTY

SCALE: VERT. 1" = 20'
 HORIZ. 1" = 20'
 DATE 11/08

DRAWN BY ARR
 CHECKED BY JLS

PLOT DATE = 11/08
 FILE NAME = D066769-SHT-500.DGN
 PLOT SCALE = 1" = 20'
 USER NAME = ARR

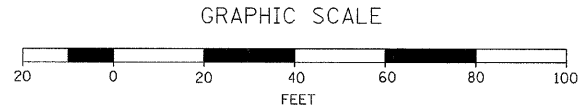
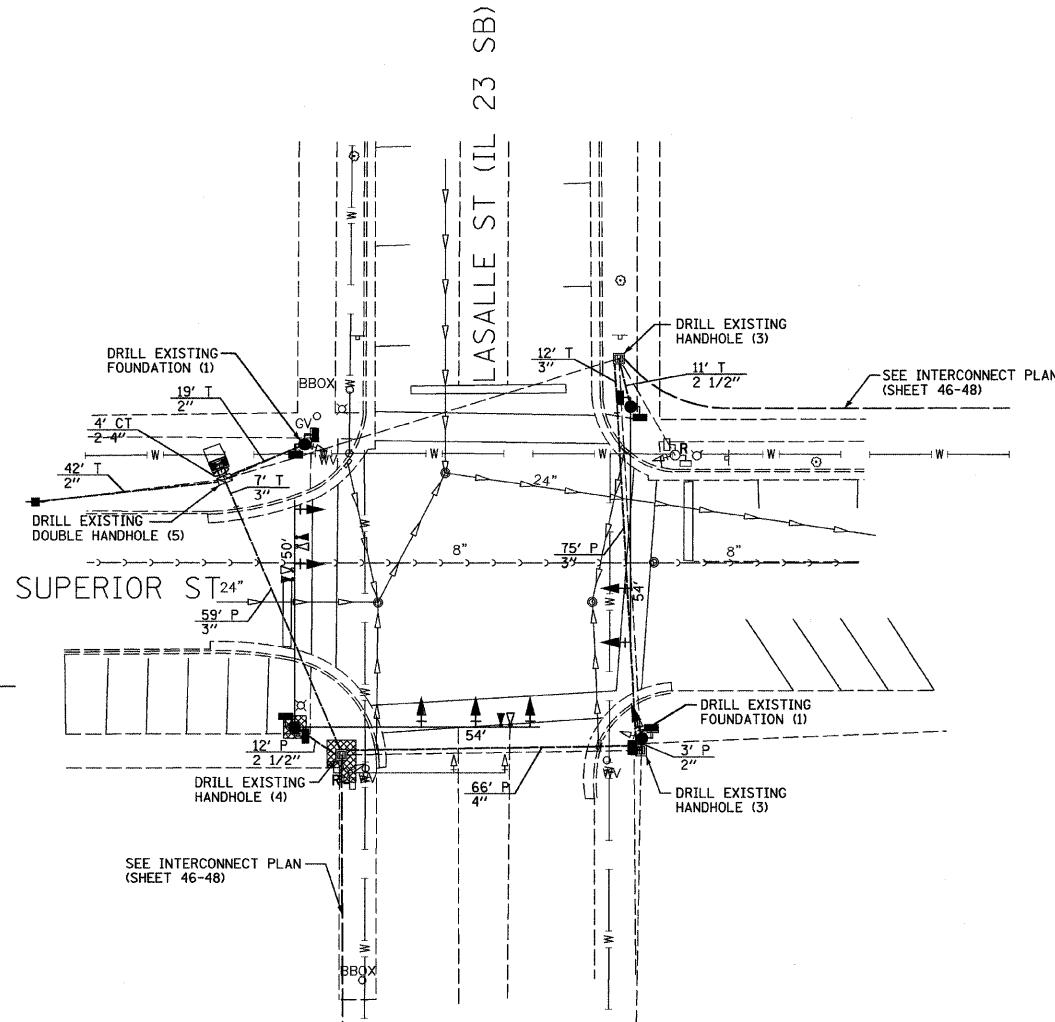
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	**	LA SALLE	48	4
STA.		TO STA.		
FED. ROAD DIST. NO. -		ILLINOIS FED. AID PROJECT		
* FAP 68 & 68 ALT (IL 23 NB & SB)				
** (35, 51 & 48 CS, 12)TS				

CONSTRUCTION NOTES:

- REMOVE AND REPLACE CONTROLLER AND CABINET ON EXISTING FOUNDATION.
- INSTALL UNINTERRUPTABLE POWER SUPPLY.
- REMOVE EXISTING MAST ARM AND POLE ON SOUTHWEST CORNER AND REPLACE WITH DUAL MAST ARM AND POLE ON NEW FOUNDATION AS SHOWN.
- REMOVE EXISTING TRAFFIC SIGNAL POST ON NORTHEAST CORNER AND REPLACE WITH MAST ARM AND POLE ON NEW FOUNDATION AS SHOWN.
- REMOVE AND REPLACE TRAFFIC SIGNAL POSTS ON SOUTHEAST AND NORTHWEST CORNERS ON EXISTING FOUNDATIONS AS SHOWN. CONTRACTOR SHALL MEASURE AND PROVIDE BOLT PATTERN DETAILS TO POST SUPPLIER PRIOR TO FABRICATION TO ENSURE COMPATABILITY.
- ADJUST THE HANDHOLE ON THE NORTHEAST CORNER WITH A NEW FRAME AND LID. THE NEW FRAME AND LID SHALL BE RAISED 4 INCHES RELATIVE TO THE EXISTING FRAME ELEVATION.
- EXISTING HANDHOLES SHALL BE UTILIZED AS SHOWN.
- ALL EXISTING SIGNAL CABLE IN CONDUIT SHALL BE REMOVED.
- EXISTING FOUNDATIONS SHALL BE REMOVED AS SHOWN.
- REMOVAL OF THE FOLLOWING ITEMS SHALL BE PAID FOR AS REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT:
 - 1 EACH - CONTROLLER AND CABINET W/ ALL CONTENTS
 - 3 EACH - TRAFFIC SIGNAL POST
 - 1 EACH - MAST ARM AND POLE
 - 4 EACH - SIGNAL HEAD, 1-FACE, 3-SECTION, BRACKET MOUNTED
 - 2 EACH - SIGNAL HEAD, 1-FACE, 3-SECTION, MAST ARM MOUNTED
 - 8 EACH - PEDESTRIAN SIGNAL HEAD, 1-FACE, BRACKET MOUNTED

SCHEDULE OF QUANTITIES

ITEM NO.	DESCRIPTION	UNIT	TOTAL QUANTITY
42400100	PORTLAND CEMENT CONCRETE SIDEWALK, 4 INCH	SQ FT	62.6
44000600	SIDEWALK REMOVAL	SQ FT	69.7
50200400	ROCK EXCAVATION FOR STRUCTURES	CU YD	4.1
72000100	SIGN PANEL - TYPE 1	SQ FT	42.5
80500200	SERVICE INSTALLATION, TYPE B	EACH	1
81012600	CONDUIT IN TRENCH, 2" DIA., PVC	FOOT	61
81012700	CONDUIT IN TRENCH, 2 1/2" DIA., PVC	FOOT	11
81012800	CONDUIT IN TRENCH, 3" DIA., PVC	FOOT	19
81013000	CONDUIT IN TRENCH, 4" DIA., PVC	FOOT	8
81021330	CONDUIT PUSHED, 2" DIA., PVC	FOOT	3
81021340	CONDUIT PUSHED, 2 1/2" DIA., PVC	FOOT	12
81021350	CONDUIT PUSHED, 3" DIA., PVC	FOOT	134
81021370	CONDUIT PUSHED, 4" DIA., PVC	FOOT	66
81900200	TRENCH AND BACKFILL FOR ELECTRICAL WORK	FOOT	95
85000200	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
85700205	FULL-ACTUATED CONTROLLER AND TYPE IV CABINET, SPECIAL	EACH	1
86200300	UNINTERRUPTABLE POWER SUPPLY, EXTENDED	EACH	1
86400100	TRANSCIVER-FIBER OPTIC	EACH	1
87301225	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	1290
87301245	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	1747.5
87301805	ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2C	FOOT	65
87502270	TRAFFIC SIGNAL POST, PAINTED STEEL 12 FT.	EACH	1
87502310	TRAFFIC SIGNAL POST, PAINTED STEEL 16 FT.	EACH	1
87700310	STEEL MAST ARM AND ASSEMBLY AND POLE, 54 FT.	EACH	1
87800415	CONCRETE FOUNDATION, TYPE E, 36 INCH DIAMETER	FOOT	27
87900100	DRILL EXISTING FOUNDATION	EACH	2
87900200	DRILL EXISTING HANDHOLE	EACH	15
88040070	SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	1
88040090	SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED	EACH	7
88200410	TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC	EACH	8
88700200	LIGHT DETECTOR	EACH	3
88700300	LIGHT DETECTOR AMPLIFIER	EACH	1
89502300	REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	2939
89502375	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
89502385	REMOVE EXISTING CONCRETE FOUNDATION	EACH	2
X8730027	ELECTRIC CABLE IN CONDUIT, GROUNDING, NO. 6 1C	FOOT	360.5
X8730250	ELECTRIC CABLE IN CONDUIT, COMMUNICATION, NO. 20 3/C, TWISTED, SHIELDED	FOOT	521.5
XX002852	RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM	EACH	1
XX006533	PEDESTRIAN SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, BRACKET MOUNTED, COUNTDOWN TIMER	EACH	8
XX006668	HANDHOLE TO BE ADJUSTED WITH NEW FRAME AND COVER	EACH	1
*3002045	STEEL MAST ARM AND ASSEMBLY AND POLE WITH DUAL MAST ARMS, 50 FT. AND 54 FT.	EACH	1



TRAFFIC SIGNALS LEGEND

EXISTING	PROPOSED	
		CONTROLLER CABINET
		SERVICE INSTALLATION
		CONDUIT
		SIGNAL HEAD WITH BACKPLATE
		STEEL MAST ARM
		TRAFFIC SIGNAL POST
		HANDHOLE
		DOUBLE HANDHOLE
		PEDESTRIAN SIGNAL HEAD
		LIGHT DETECTOR
		CONFIRMATION BEACON

LEGEND

	SIDEWALK REMOVAL AND REPLACEMENT
--	----------------------------------

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 TRAFFIC SIGNAL PLAN
 FAP 68 ALT (IL 23 SB)/LA SALLE ST
 AND SUPERIOR STREET
 SECTION 35,51 & 48 CS, 12)TS
 LA SALLE COUNTY

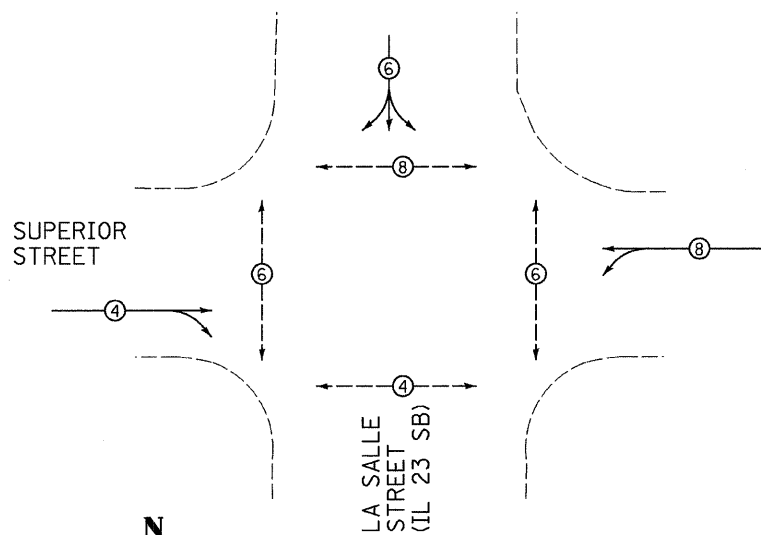
SCALE: VERT. 1" = 20'
 HORIZ. 1" = 20'
 DATE 11/08

DRAWN BY ARR
 CHECKED BY JLS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	**	LA SALLE	48	5
STA.		TO STA.		
FED. ROAD DIST. NO. _		ILLINOIS FED. AID PROJECT		
* FAP 68 & 68 ALT (IL 23 NB & SB) ** (35, 51 & 48 CS, 12)TS				

CONTROLLER SEQUENCE

NAME OF INTERSECTION: LA SALLE STREET AND SUPERIOR STREET
 CONTROLLER SPECIFIED: FULL-ACTUATED CONTROLLER, STANDARD SEQUENCE II, 8 PHASE, IN TYPE IV CABINET
 REFERRING TO STANDARD 857001, THE VEHICULAR AND PEDESTRIAN PHASES USED ARE DESIGNATED.



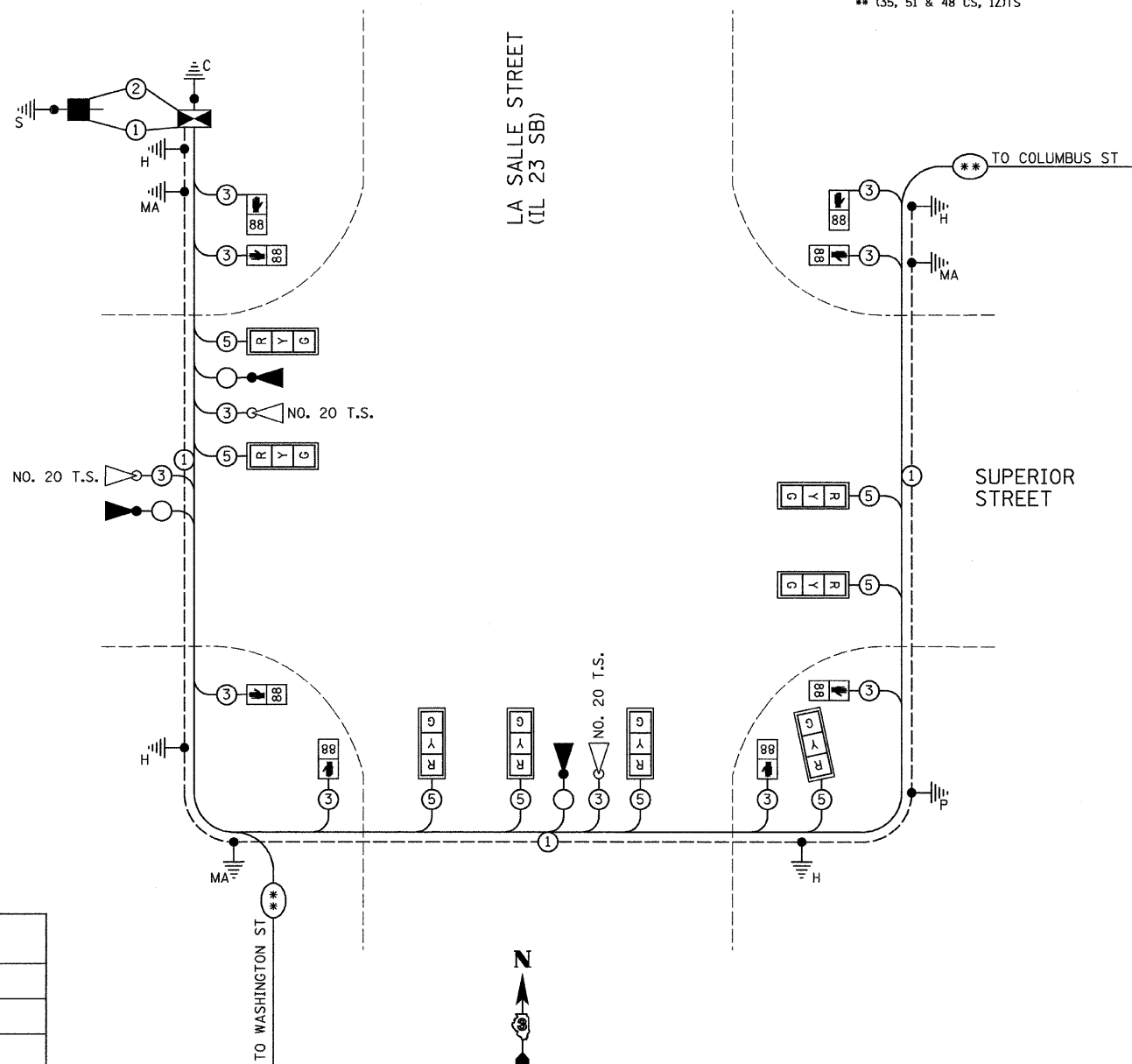
PROPOSED PLAN
NOT TO SCALE

LEGEND

- VEHICULAR MOVEMENT
- - -●- - - PEDESTRIAN MOVEMENT
- * NUMBER REFERS TO ASSOCIATED PHASE

TRAFFIC SIGNALS LEGEND

⊙	DETNOTES NUMBER OF CONDUCTORS (NEW) ALL CABLE NO. 14 EXCEPT AS INDICATED
■	PROPOSED SERVICE INSTALLATION, TYPE B
⊠	PROPOSED CONTROLLER AND CABINET
⊡	EMERGENCY VEHICLE LIGHT DETECTOR
⊢	EMERGENCY VEHICLE CONFIRMATION BEACON
□	SIGNAL SECTION 12"
⊛	PROPOSED INTERCONNECT CABLE
88	PROPOSED WALK/DONT WALK COUNTDOWN SECTION
⊡	TRAFFIC SIGNAL BACKPLATE
①	GROUND CABLE IN CONDUIT, NO. 6 SOLID COPPER (GREEN)
⊥	GROUND ROD AT POST (P) OR MAST ARM (MA) OR CONTROLLER (C) OR SERVICE INSTALLATION (S) OR HANDHOLE (H)



PROPOSED CABLE PLAN
NOT TO SCALE

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 CABLE PLAN
 FAP 68 ALT (IL 23 SB)/LA SALLE ST
 AND SUPERIOR STREET
 SECTION 35,51 & 48 CS, 12)TS
 LA SALLE COUNTY

SCALE: VERT.
 HORIZ.
 DATE 11/08

DRAWN BY ARR
 CHECKED BY JLS

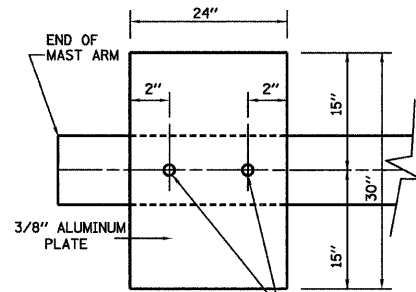
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	*	LA SALLE	48	6
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	
* FAP 68 & 68 ALT (IL 23 NB & SB)				
** (35, 51 & 48 CS, 12)TS				

ELECTRICAL LOAD FOR INTERSECTION				
STREET NAME	COMPONENT	NUMBER	WATTAGE EACH	BURNTIME %
LA SALLE STREET (IL 23 SB)	RED	4	10	42
	YELLOW	4	19	5
	GREEN	4	14	53
	88	4	7	100
	88	4	5	53
SUPERIOR STREET	RED	4	10	68
	YELLOW	4	19	5
	GREEN	4	14	27
	88	4	7	100
	88	4	5	27
TRAFFIC SIGNAL CABINET	CONTROLLER	1	6	100
	UPS	1	50	100
	EMERGENCY VEHICLE PREEMPT	3	--	--

AGENCY RESPONSIBLE FOR TRAFFIC SIGNAL ENERGY CHARGES:
CITY OF OTTAWA

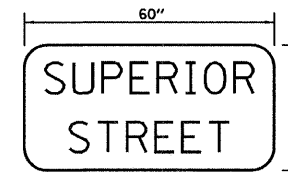
NOTE:

DAMPENING DEVICE SHALL CONSIST OF A 24" X 30" TYPE 1, UNPAINTED ALUMINUM SIGN STOCK MOUNTED HORIZONTALLY ON TOP OF MAST ARM WITH THE 30" LENGTH PERPENDICULAR TO THE ARM. COST OF THE DAMPENING DEVICE IS INCLUDED IN THE MAST ARM PAY ITEM.



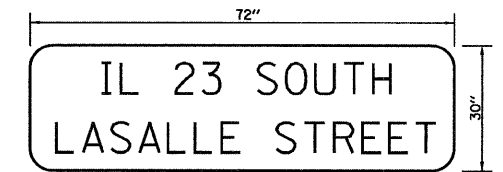
2-5/8" STAINLESS STEEL BOLTS THROUGH STAINLESS STEEL BANDING
NOTE:
MOUNT DAMPENING PLATE TO END OF EACH TRAFFIC SIGNAL MAST ARM.

DAMPENING PLATE DETAIL - TOP VIEW



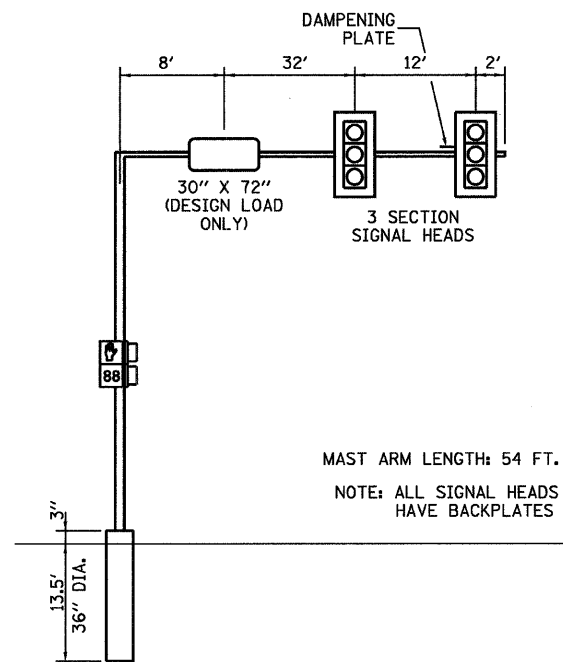
TYPE ZZ SHEETING REQUIRED
8" D SERIES LETTERS
1 SIGNS REQUIRED = 12.5 SQ. FT. EACH
= 12.5 SQ. FT. TOTAL

THIS STREET NAME SIGN SHALL BE PLACED ON THE MAST ARMS PARALLEL WITH SUPERIOR STREET



TYPE ZZ SHEETING REQUIRED
8" D SERIES LETTERS (STATE ROUTE LETTERING)
6" D SERIES LETTERS (CITY STREET LETTERING)
2 SIGNS REQUIRED = 15 SQ. FT. EACH
= 30 SQ. FT. TOTAL

THIS STREET NAME SIGN SHALL BE PLACED ON THE MAST ARMS PARALLEL WITH LA SALLE STREET

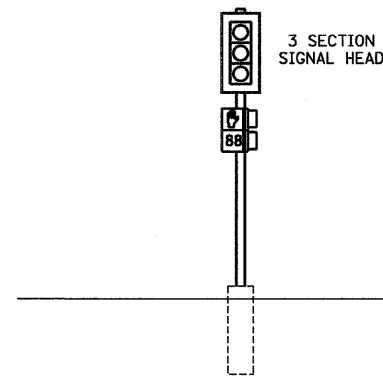


MAST ARM LENGTH: 54 FT.

NOTE: ALL SIGNAL HEADS HAVE BACKPLATES

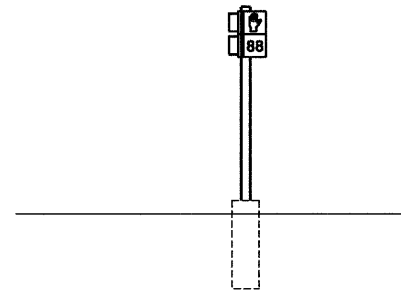
EASTBOUND

NORTHEAST CORNER
NOT TO SCALE



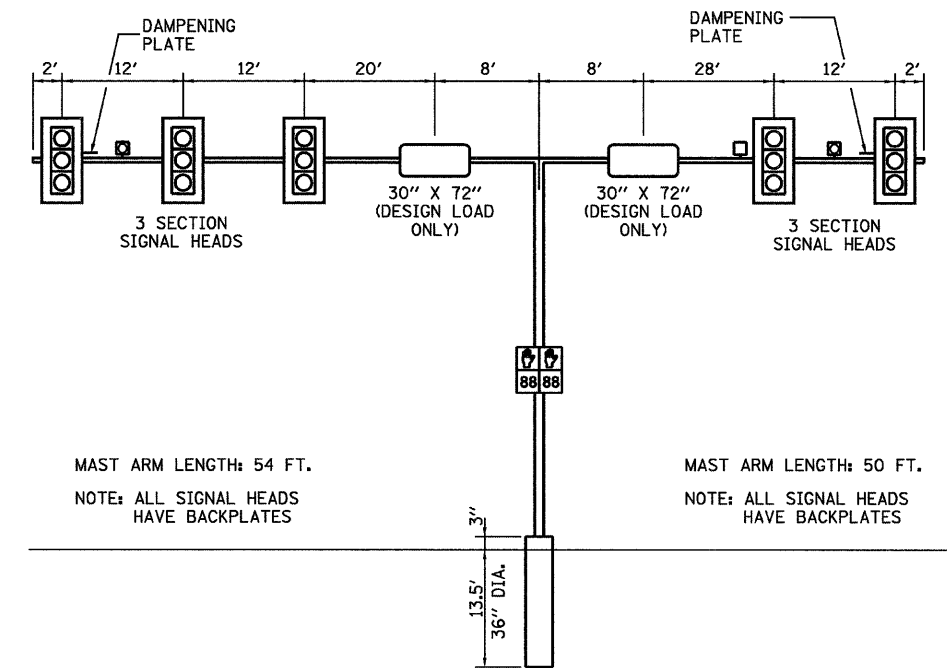
SOUTHBOUND

SOUTHEAST CORNER
NOT TO SCALE



WESTBOUND

NORTHWEST CORNER
NOT TO SCALE



MAST ARM LENGTH: 54 FT.

NOTE: ALL SIGNAL HEADS HAVE BACKPLATES

SOUTHBOUND

SOUTHWEST CORNER
NOT TO SCALE

MAST ARM LENGTH: 50 FT.

NOTE: ALL SIGNAL HEADS HAVE BACKPLATES

WESTBOUND

LA SALLE STREET (IL 23 SB) / SUPERIOR STREET

MAST ARM AND POLE SHALL BE DESIGNED FOR THE WORST CASE LOADING CONDITION WHEREBY ALL THE SIGNAL HEADS ARE LOCATED 2 FEET FURTHER OUT THAN POSITION SHOWN. HOWEVER THE INTENT IS THAT ALL SIGNAL HEADS BE CENTERED ABOVE THE LANES.

REVISIONS	
NAME	DATE

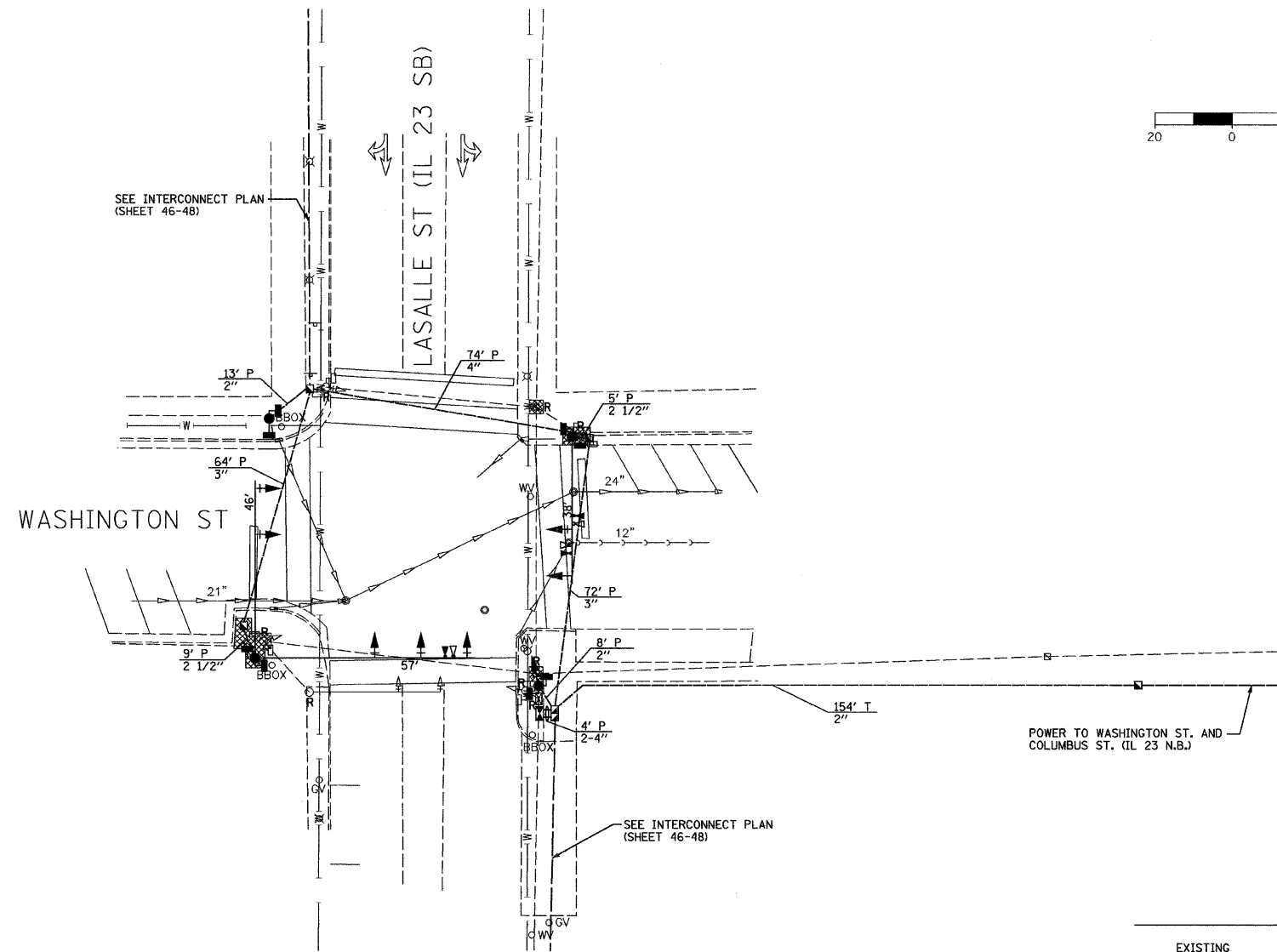
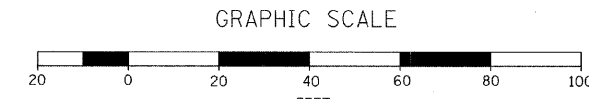
ILLINOIS DEPARTMENT OF TRANSPORTATION
TRAFFIC SIGNAL DETAILS
FAP 68 ALT (IL 23 SB)/LA SALLE ST
AND SUPERIOR STREET
SECTION 35,51 & 48 CS, 12)TS
LA SALLE COUNTY

SCALE: VERT. DRAWN BY ARR
HORIZ. CHECKED BY JLS
DATE 11/08

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	**	LA SALLE	48	7
STA.		TO STA.		
FED. ROAD DIST. NO. _		ILLINOIS FED. AID PROJECT		
• FAP 68 & 68 ALT (IL 23 NB & SB) •• (35, 51 & 48 CS, 12)TS				

CONSTRUCTION NOTES:

- REMOVE AND REPLACE CONTROLLER AND CABINET ON NEW FOUNDATION.
- INSTALL UNINTERRUPTABLE POWER SUPPLY.
- REMOVE EXISTING MAST ARM AND POLE ON SOUTHWEST CORNER AND REPLACE WITH DUAL MAST ARM AND POLE ON NEW FOUNDATION AS SHOWN.
- REMOVE EXISTING TRAFFIC SIGNAL POST ON NORTHEAST CORNER AND REPLACE WITH MAST ARM AND POLE ON NEW FOUNDATION AS SHOWN.
- REMOVE AND REPLACE TRAFFIC SIGNAL POSTS ON SOUTHEAST AND NORTHWEST CORNERS ON NEW FOUNDATIONS AS SHOWN.
- EXISTING HANDHOLES SHALL BE REMOVED AS SHOWN.
- ALL EXISTING SIGNAL CABLE IN CONDUIT SHALL BE REMOVED.
- EXISTING FOUNDATIONS SHALL BE REMOVED AS SHOWN.
- REMOVAL OF THE FOLLOWING ITEMS SHALL BE PAID FOR AS REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT:
 - 1 EACH - CONTROLLER AND CABINET W/ ALL CONTENTS
 - 4 EACH - TRAFFIC SIGNAL POST
 - 1 EACH - MAST ARM AND POLE
 - 4 EACH - SIGNAL HEAD, 1-FACE, 3-SECTION, BRACKET MOUNTED
 - 2 EACH - SIGNAL HEAD, 1-FACE, 3-SECTION, MAST ARM MOUNTED
 - 8 EACH - PEDESTRIAN SIGNAL HEAD, 1-FACE, BRACKET MOUNTED



SCHEDULE OF QUANTITIES

ITEM NO.	DESCRIPTION	UNIT	TOTAL QUANTITY
42400100	PORTLAND CEMENT CONCRETE SIDEWALK, 4 INCH	SQ FT	118.2
44000600	SIDEWALK REMOVAL	SQ FT	133.5
50200400	ROCK EXCAVATION FOR STRUCTURES	CU YD	3.4
72000100	SIGN PANEL - TYPE 1	SQ FT	45
81012600	CONDUIT IN TRENCH, 2" DIA., PVC	FOOT	154
81021330	CONDUIT PUSHED, 2" DIA., PVC	FOOT	21
81021340	CONDUIT PUSHED, 2 1/2" DIA., PVC	FOOT	14
81021350	CONDUIT PUSHED, 3" DIA., PVC	FOOT	136
81021370	CONDUIT PUSHED, 4" DIA., PVC	FOOT	82
81400700	HANDHOLE, PORTLAND CEMENT CONCRETE	EACH	4
81400720	DOUBLE HANDHOLE, PORTLAND CEMENT CONCRETE	EACH	1
81900200	TRENCH AND BACKFILL FOR ELECTRICAL WORK	FOOT	154
85000200	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
85700205	FULL-ACTUATED CONTROLLER AND TYPE IV CABINET, SPECIAL	EACH	1
86200300	UNINTERRUPTABLE POWER SUPPLY, EXTENDED	EACH	1
86400100	TRANSCIVER-FIBER OPTIC	EACH	1
87301225	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	1292
87301245	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	2014.5
87301805	ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2C	FOOT	474
87502270	TRAFFIC SIGNAL POST, PAINTED STEEL 12 FT.	EACH	1
87502310	TRAFFIC SIGNAL POST, PAINTED STEEL 16 FT.	EACH	1
87700230	STEEL MAST ARM AND ASSEMBLY AND POLE, 38 FT.	EACH	1
87800100	CONCRETE FOUNDATION, TYPE A	FOOT	6
87800150	CONCRETE FOUNDATION, TYPE C	FOOT	3.5
87800415	CONCRETE FOUNDATION, TYPE E, 36 INCH DIAMETER	FOOT	26
88040070	SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	1
88040090	SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED	EACH	7
88200410	TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC	EACH	8
88700200	LIGHT DETECTOR	EACH	3
88700300	LIGHT DETECTOR AMPLIFIER	EACH	1
89502300	REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	1813
89502375	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
89502380	REMOVE EXISTING HANDHOLE	EACH	4
89502385	REMOVE EXISTING CONCRETE FOUNDATION	EACH	6
X8730027	ELECTRIC CABLE IN CONDUIT, GROUNDING, NO. 6 1C	FOOT	648
X8730250	ELECTRIC CABLE IN CONDUIT, COMMUNICATION, NO. 20 3/C, TWISTED, SHIELDED	FOOT	656.5
XX002852	RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM	EACH	1
XX006533	PEDESTRIAN SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, BRACKET MOUNTED, COUNTDOWN TIMER	EACH	8
*3002044	STEEL MAST ARM AND ASSEMBLY AND POLE WITH DUAL MAST ARMS, 46 FT. AND 57 FT.	EACH	1

TRAFFIC SIGNALS LEGEND

EXISTING	PROPOSED	DESCRIPTION
		CONTROLLER CABINET
		SERVICE INSTALLATION
		CONDUIT
		SIGNAL HEAD WITH BACKPLATE
		STEEL MAST ARM
		TRAFFIC SIGNAL POST
		HANDHOLE
		DOUBLE HANDHOLE
		PEDESTRIAN SIGNAL HEAD
		LIGHT DETECTOR
		CONFIRMATION BEACON

LEGEND

SIDEWALK REMOVAL AND REPLACEMENT

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 TRAFFIC SIGNAL PLAN
 FAP 68 ALT (IL 23 SB)/LA SALLE ST
 AND WASHINGTON STREET
 SECTION 35,51 & 48 CS, 12)TS
 LA SALLE COUNTY

SCALE: VERT. 1" = 20'
 HORIZ. 1" = 20'
 DATE 11/08

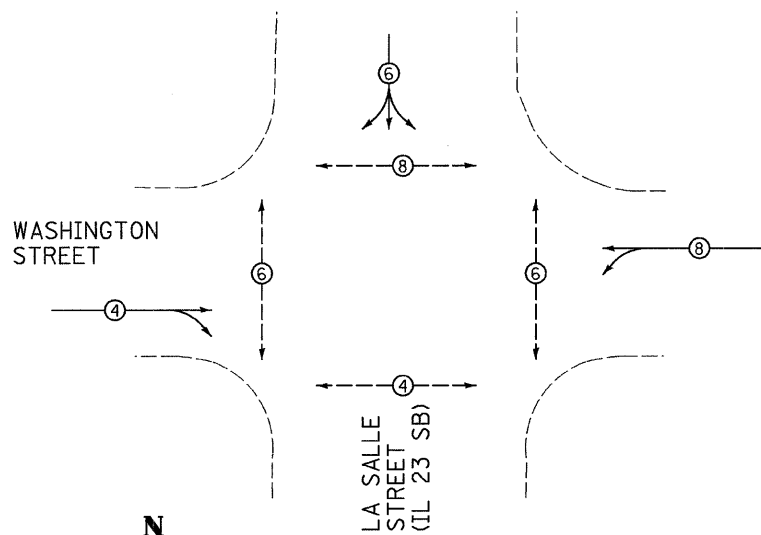
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 CHECKED BY JLS

PLOT DATE = 11/08
 FILE NAME = D865759-SHT-TS-LASA-WASH.DGN
 PLOT SCALE = 1" = 20'
 USER NAME = ARR

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	**	LA SALLE	48	8
STA.		TO STA.		
FED. ROAD DIST. NO. _		ILLINOIS FED. AID PROJECT		
* FAP 68 & 68 ALT (IL 23 NB & SB) ** (35, 51 & 48 CS, 12)TS				

CONTROLLER SEQUENCE

NAME OF INTERSECTION: LA SALLE STREET AND WASHINGTON STREET
 CONTROLLER SPECIFIED: FULL-ACTUATED CONTROLLER, STANDARD SEQUENCE II, 8 PHASE, IN TYPE IV CABINET
 REFERRING TO STANDARD 857001, THE VEHICULAR AND PEDESTRIAN PHASES USED ARE DESIGNATED.



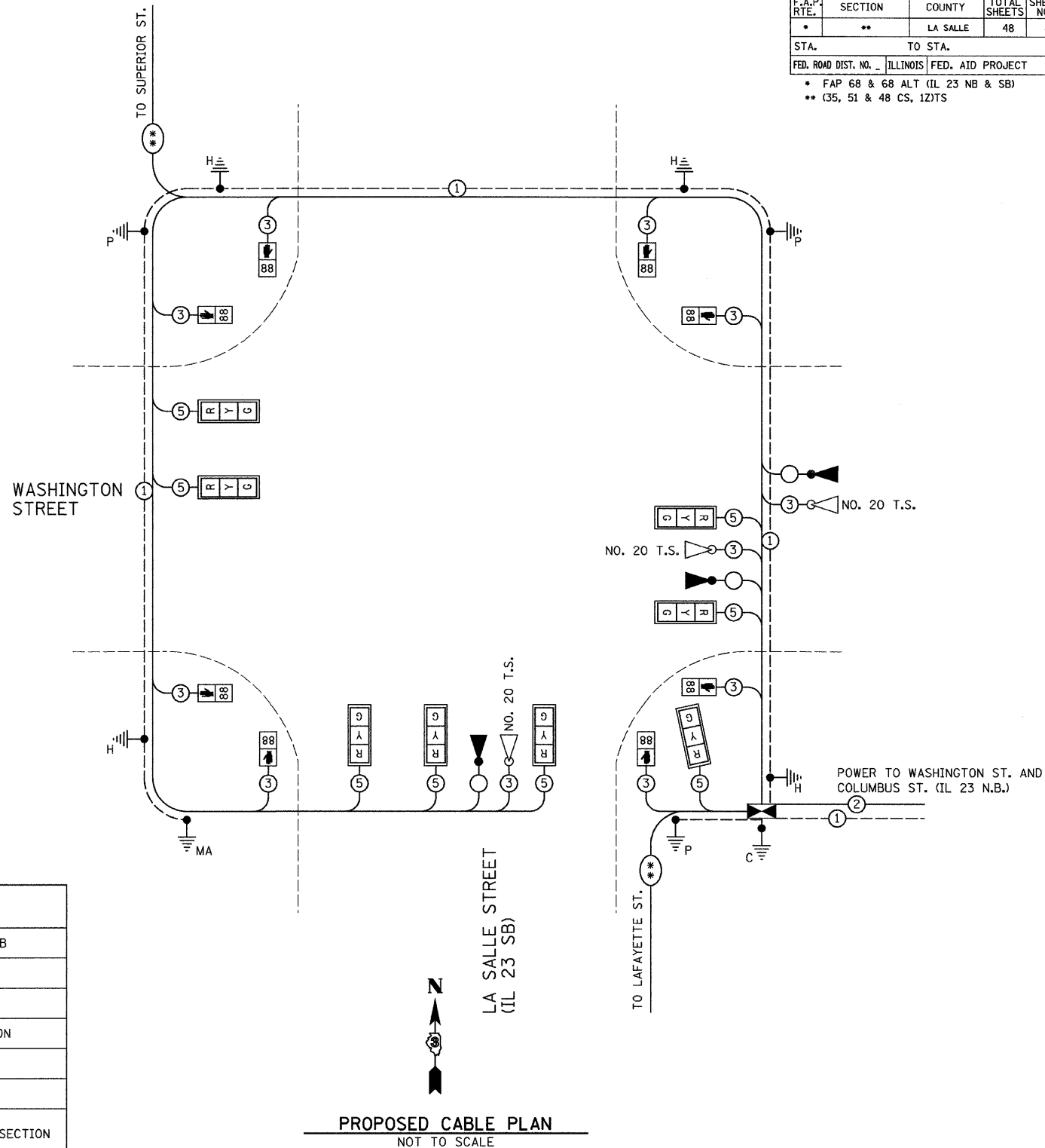
PROPOSED PLAN
NOT TO SCALE

LEGEND

- VEHICULAR MOVEMENT
- PEDESTRIAN MOVEMENT
- * NUMBER REFERS TO ASSOCIATED PHASE

TRAFFIC SIGNALS LEGEND

	DETOTES NUMBER OF CONDUCTORS (NEW) ALL CABLE NO. 14 EXCEPT AS INDICATED
	PROPOSED SERVICE INSTALLATION, TYPE B
	PROPOSED CONTROLLER AND CABINET
	EMERGENCY VEHICLE LIGHT DETECTOR
	EMERGENCY VEHICLE CONFIRMATION BEACON
	SIGNAL SECTION 12"
	PROPOSED INTERCONNECT CABLE
	PROPOSED WALK/DONT WALK COUNTDOWN SECTION
	TRAFFIC SIGNAL BACKPLATE
	GROUND CABLE IN CONDUIT, NO. 6 SOLID COPPER (GREEN)
	GROUND ROD AT POST (P) OR MAST ARM (MA) OR CONTROLLER (C) OR SERVICE INSTALLATION (S) OR HANDHOLE (H)



PROPOSED CABLE PLAN
NOT TO SCALE

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
CABLE PLAN
 FAP 68 ALT (IL 23 SB)/LA SALLE ST
 AND WASHINGTON STREET
 SECTION 35,51 & 48 CS, 12)TS
 LA SALLE COUNTY

SCALE: VERT. _____
 HORIZ. _____
 DATE 11/08
 DRAWN BY ARR
 CHECKED BY JLS

PLOT DATE = 11/08
 FILE NAME = D066769-SHT-CABLE-LASA-WASHDN
 PLOT SCALE = 20"
 USER NAME = ARR

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	**	LA SALLE	48	9

STA. _____ TO STA. _____

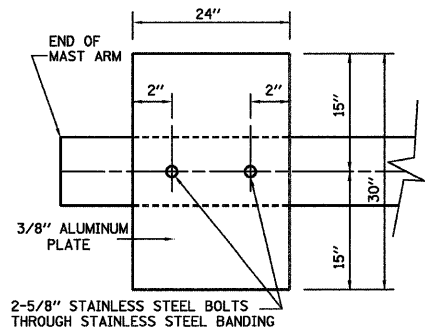
FED. ROAD DIST. NO. _____ ILLINOIS FED. AID PROJECT

* FAP 68 & 68 ALT (IL 23 NB & SB)
 ** (35, 51 & 48 CS, 12)TS

ELECTRICAL LOAD FOR INTERSECTION				
STREET NAME	COMPONENT	NUMBER	WATTAGE EACH	BURNTIME %
LA SALLE STREET (IL 23 SB)	RED	4	10	42
	YELLOW	4	19	5
	GREEN	4	14	53
		4	7	100
		4	5	53
WASHINGTON STREET	RED	4	10	68
	YELLOW	4	19	5
	GREEN	4	14	27
		4	7	100
		4	5	27
TRAFFIC SIGNAL CABINET	CONTROLLER	1	6	100
	UPS	1	50	100
	EMERGENCY VEHICLE PREEMPT	3	--	--

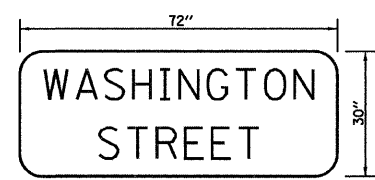
AGENCY RESPONSIBLE FOR TRAFFIC SIGNAL ENERGY CHARGES:
CITY OF OTTAWA

NOTE:
DAMPENING DEVICE SHALL CONSIST OF A 24" X 30" TYPE 1, UNPAINTED ALUMINUM SIGN STOCK MOUNTED HORIZONTALLY ON TOP OF MAST ARM WITH THE 30" LENGTH PERPENDICULAR TO THE ARM. COST OF THE DAMPENING DEVICE IS INCLUDED IN THE MAST ARM PAY ITEM.



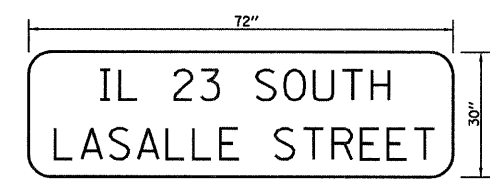
NOTE:
MOUNT DAMPENING PLATE TO END OF EACH TRAFFIC SIGNAL MAST ARM.

DAMPENING PLATE DETAIL - TOP VIEW



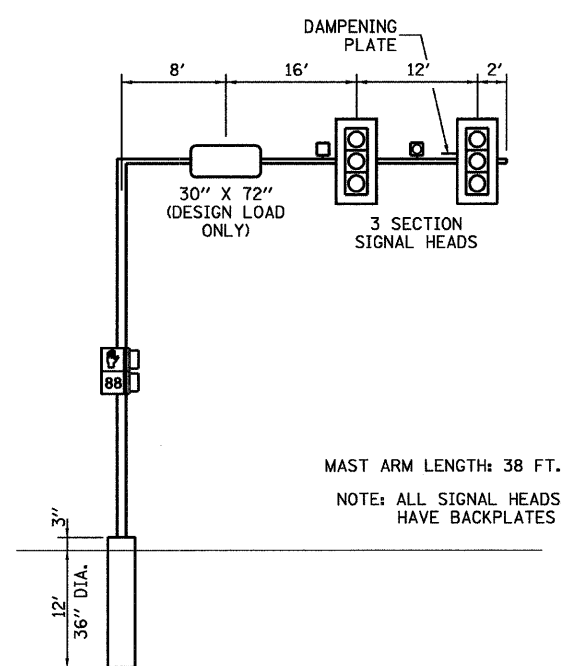
TYPE ZZ SHEETING REQUIRED
8" D SERIES LETTERS
1 SIGNS REQUIRED = 15 SQ. FT. EACH
= 15 SQ. FT. TOTAL

THIS STREET NAME SIGN SHALL BE PLACED ON THE MAST ARMS PARALLEL WITH WASHINGTON STREET

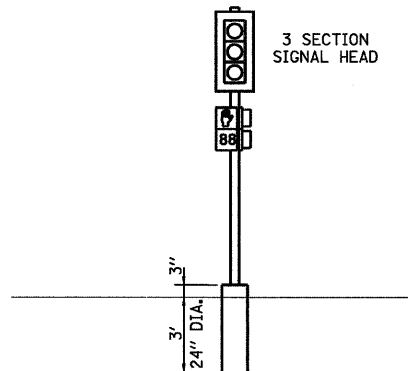


TYPE ZZ SHEETING REQUIRED
8" D SERIES LETTERS (STATE ROUTE LETTERING)
6" D SERIES LETTERS (CITY STREET LETTERING)
2 SIGNS REQUIRED = 15 SQ. FT. EACH
= 30 SQ. FT. TOTAL

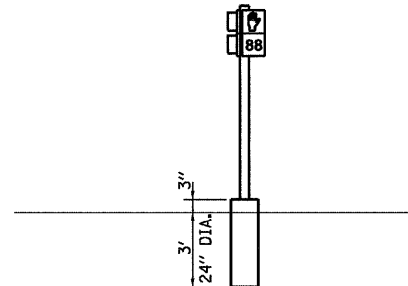
THIS STREET NAME SIGN SHALL BE PLACED ON THE MAST ARMS PARALLEL WITH LA SALLE STREET



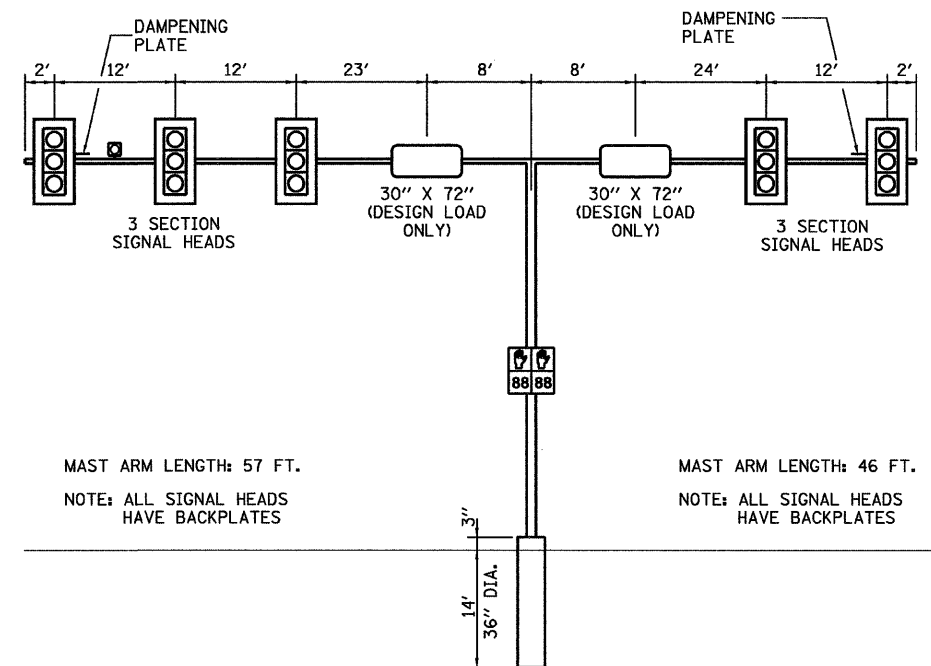
EASTBOUND
NORTHEAST CORNER
NOT TO SCALE



SOUTHBOUND
SOUTHEAST CORNER
NOT TO SCALE



WESTBOUND
NORTHWEST CORNER
NOT TO SCALE



SOUTHBOUND
SOUTHWEST CORNER
NOT TO SCALE

WESTBOUND
SOUTHWEST CORNER
NOT TO SCALE

LA SALLE STREET (IL 23 SB) / WASHINGTON STREET

MAST ARM AND POLE SHALL BE DESIGNED FOR THE WORST CASE LOADING CONDITION WHEREBY ALL THE SIGNAL HEADS ARE LOCATED 2 FEET FURTHER OUT THAN POSITION SHOWN. HOWEVER THE INTENT IS THAT ALL SIGNAL HEADS BE CENTERED ABOVE THE LANES.

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
TRAFFIC SIGNAL DETAILS
FAP 68 ALT (IL 23 SB)/LA SALLE ST
AND WASHINGTON STREET
SECTION 35,51 & 48 CS, 12)TS
LA SALLE COUNTY

SCALE: VERT. _____
HORIZ. _____
DATE 11/08

DRAWN BY ARR
CHECKED BY JLS

PLOT DATE = 11/08
FILE NAME = D066769-SHT-DETAILS-LASALLE-WASH.DGN
SCALE = 1/8" = 1'-0"
USER NAME = ARR

CONSTRUCTION NOTES:

- REMOVE AND REPLACE CONTROLLER AND CABINET ON NEW FOUNDATION.
- INSTALL UNINTERRUPTABLE POWER SUPPLY.
- REMOVE EXISTING MAST ARM AND POLE ON SOUTHWEST CORNER AND REPLACE WITH DUAL MAST ARM AND POLE ON NEW FOUNDATION AS SHOWN.
- REMOVE EXISTING TRAFFIC SIGNAL POST ON NORTHEAST CORNER AND REPLACE WITH MAST ARM AND POLE ON NEW FOUNDATION AS SHOWN.
- REMOVE AND REPLACE TRAFFIC SIGNAL POSTS ON SOUTHEAST AND NORTHWEST CORNERS ON NEW FOUNDATIONS AS SHOWN.
- ADJUST THE HANDHOLE ON THE NORTHWEST AND SOUTHEAST CORNERS WITH NEW FRAMES AND LIDS.
- NEW AND EXISTING HANDHOLES SHALL BE UTILIZED AS SHOWN.
- ALL EXISTING SIGNAL CABLE IN CONDUIT SHALL BE REMOVED.
- EXISTING FOUNDATIONS SHALL BE REMOVED AS SHOWN.

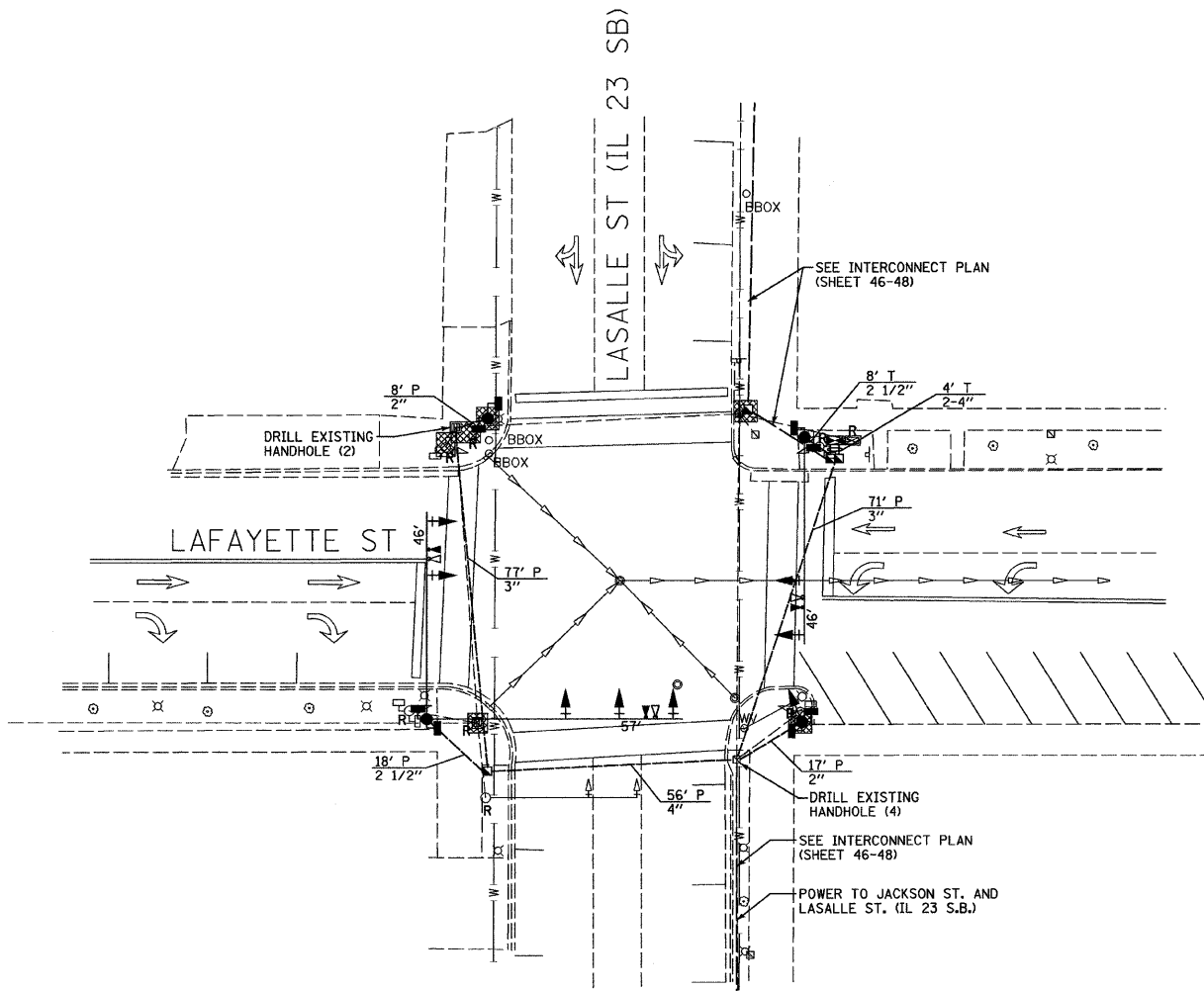
CONTRACTOR SHALL COORDINATE THE TEMPORARY OR PERMANENT RELOCATION OF ANY CONFLICTING SPRINKLER SYSTEM PIPING OR COMPONENTS IN THE SOUTHWEST CORNER WITH THE OWNER. THIS WORK SHALL NOT BE PAID FOR SEPARATELY BUT CONSIDERED INCLUDED WITH THE COST OF THE ASSOCIATED TRAFFIC SIGNAL PAY ITEM.

THE USE OF BRACKET EXTENSIONS MAY BE REQUIRED TO ALIGN PEDESTRIAN SIGNAL HEADS WITH CROSSWALKS IN ORDER TO ENSURE PEDESTRIAN VISIBILITY. THE COST OF ANY ADDITIONAL BRACKET EXTENSIONS OR COMPONENTS SHALL BE CONSIDERED INCLUDED WITH THE COST OF THE ASSOCIATED TRAFFIC SIGNAL PAY ITEM.

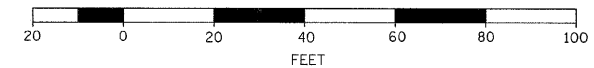
- REMOVAL OF THE FOLLOWING ITEMS SHALL BE PAID FOR AS REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT:
- 1 EACH - CONTROLLER AND CABINET W/ ALL CONTENTS
 - 4 EACH - TRAFFIC SIGNAL POST
 - 1 EACH - MAST ARM AND POLE
 - 4 EACH - SIGNAL HEAD, 1-FACE, 3-SECTION, BRACKET MOUNTED
 - 2 EACH - SIGNAL HEAD, 1-FACE, 3-SECTION, MAST ARM MOUNTED
 - 8 EACH - PEDESTRIAN SIGNAL HEAD, 1-FACE, BRACKET MOUNTED

SCHEDULE OF QUANTITIES

ITEM NO.	DESCRIPTION	UNIT	TOTAL QUANTITY
42400100	PORTLAND CEMENT CONCRETE SIDEWALK, 4 INCH	SQ FT	118.9
44000600	SIDEWALK REMOVAL	SQ FT	122.5
50200400	ROCK EXCAVATION FOR STRUCTURES	CU YD	4
72000100	SIGN PANEL - TYPE 1	SQ FT	45
81012700	CONDUIT IN TRENCH, 2 1/2" DIA., PVC	FOOT	8
81013000	CONDUIT IN TRENCH, 4" DIA., PVC	FOOT	8
81021330	CONDUIT PUSHED, 2" DIA., PVC	FOOT	25
81021340	CONDUIT PUSHED, 2 1/2" DIA., PVC	FOOT	18
81021350	CONDUIT PUSHED, 3" DIA., PVC	FOOT	148
81021370	CONDUIT PUSHED, 4" DIA., PVC	FOOT	56
81400700	HANDHOLE, PORTLAND CEMENT CONCRETE	EACH	1
81400720	DOUBLE HANDHOLE, PORTLAND CEMENT CONCRETE	EACH	1
81900200	TRENCH AND BACKFILL FOR ELECTRICAL WORK	FOOT	12
85000200	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
85700205	FULL-ACTUATED CONTROLLER AND TYPE IV CABINET, SPECIAL	EACH	1
86000100	MASTER CONTROLLER	EACH	1
86200300	UNINTERRUPTABLE POWER SUPPLY, EXTENDED	EACH	1
86400100	TRANSCEIVER-FIBER OPTIC	EACH	1
87301225	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	1272
87301245	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	1563.5
87301805	ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2C	FOOT	421.5
87502270	TRAFFIC SIGNAL POST, PAINTED STEEL 12 FT.	EACH	1
87502310	TRAFFIC SIGNAL POST, PAINTED STEEL 16 FT.	EACH	1
87700270	STEEL MAST ARM AND ASSEMBLY AND POLE, 46 FT.	EACH	1
87800100	CONCRETE FOUNDATION, TYPE A	FOOT	6
87800150	CONCRETE FOUNDATION, TYPE C	FOOT	3.5
87800415	CONCRETE FOUNDATION, TYPE E, 36 INCH DIAMETER	FOOT	27
87900200	DRILL EXISTING HANDHOLE	EACH	6
88040070	SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	1
88040090	SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED	EACH	7
88200410	TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC	EACH	8
88700200	LIGHT DETECTOR	EACH	3
88700300	LIGHT DETECTOR AMPLIFIER	EACH	1
89502300	REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	2205.5
89502375	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
89502380	REMOVE EXISTING HANDHOLE	EACH	4
89502385	REMOVE EXISTING CONCRETE FOUNDATION	EACH	6
X8730027	ELECTRIC CABLE IN CONDUIT, GROUNDING, NO. 6 1C	FOOT	306.5
X8730250	ELECTRIC CABLE IN CONDUIT, COMMUNICATION, NO. 20 3/C, TWISTED, SHIELDED	FOOT	596
XX002852	RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM	EACH	1
XX006533	PEDESTRIAN SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, BRACKET MOUNTED, COUNTDOWN TIMER	EACH	8
XX006668	HANDHOLE TO BE ADJUSTED WITH NEW FRAME AND COVER	EACH	2
*3002044	STEEL MAST ARM AND ASSEMBLY AND POLE WITH DUAL MAST ARMS, 46 FT. AND 57 FT.	EACH	1



GRAPHIC SCALE



FEET



TRAFFIC SIGNALS LEGEND

EXISTING	PROPOSED	DESCRIPTION
		CONTROLLER CABINET
		SERVICE INSTALLATION
		CONDUIT
		SIGNAL HEAD WITH BACKPLATE
		STEEL MAST ARM
		TRAFFIC SIGNAL POST
		HANDHOLE
		DOUBLE HANDHOLE
		PEDESTRIAN SIGNAL HEAD
		LIGHT DETECTOR
		CONFIRMATION BEACON

LEGEND

	SIDEWALK REMOVAL AND REPLACEMENT
--	----------------------------------

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 TRAFFIC SIGNAL PLAN
 FAP 68 ALT (IL 23 SB)/LA SALLE ST
 AND LAFAYETTE STREET
 SECTION 35,51 & 48 CS, 12)TS
 LA SALLE COUNTY

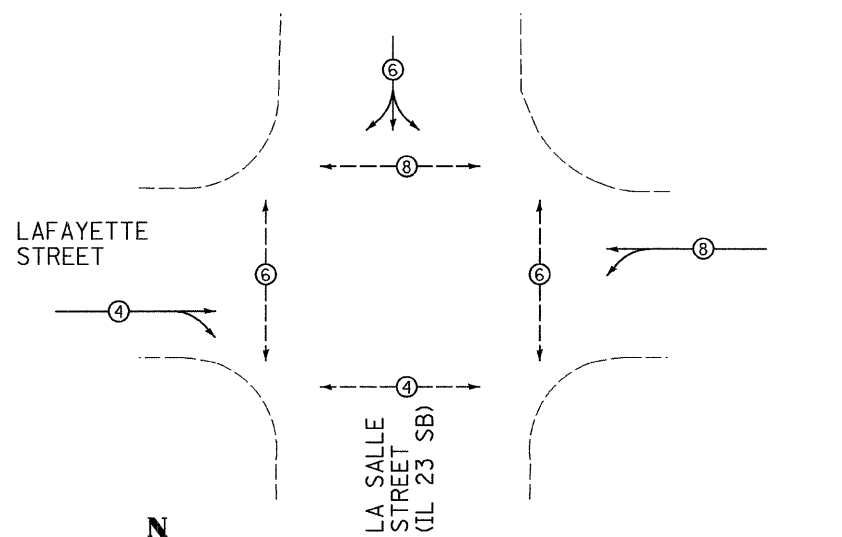
SCALE: VERT. 1" = 20'
 HORIZ. 1" = 20'
 DATE 11/08

DRAWN BY ARR
 CHECKED BY JLS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	**	LA SALLE	48	11
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
* FAP 68 & 68 ALT (IL 23 NB & SB)				
** (35, 51 & 48 CS, 12)TS				

CONTROLLER SEQUENCE

NAME OF INTERSECTION: LA SALLE STREET AND LAFAYETTE STREET
 CONTROLLER SPECIFIED: FULL-ACTUATED CONTROLLER, STANDARD SEQUENCE II, 8 PHASE, IN TYPE IV CABINET
 REFERRING TO STANDARD 857001, THE VEHICULAR AND PEDESTRIAN PHASES USED ARE DESIGNATED.



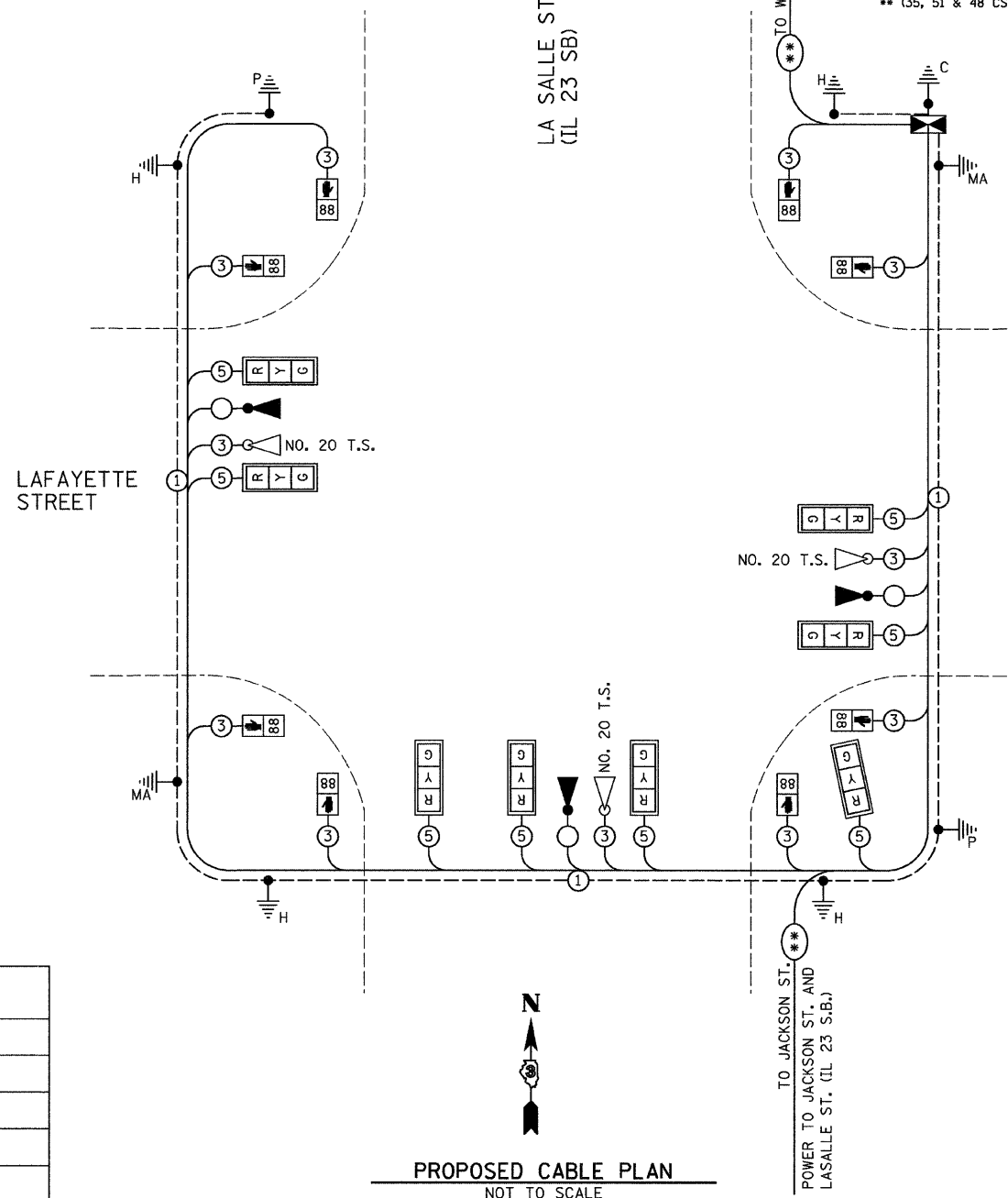
PROPOSED PLAN
NOT TO SCALE

LEGEND

- VEHICULAR MOVEMENT
- PEDESTRIAN MOVEMENT
- * NUMBER REFERS TO ASSOCIATED PHASE

TRAFFIC SIGNALS LEGEND

⊙	DETNOTES NUMBER OF CONDUCTORS (NEW) ALL CABLE NO. 14 EXCEPT AS INDICATED
■	PROPOSED SERVICE INSTALLATION, TYPE B
⏏	PROPOSED CONTROLLER AND CABINET
⏏	EMERGENCY VEHICLE LIGHT DETECTOR
⏏	EMERGENCY VEHICLE CONFIRMATION BEACON
□	SIGNAL SECTION 12"
**	PROPOSED INTERCONNECT CABLE
88	PROPOSED WALK/DONT WALK COUNTDOWN SECTION
⏏	TRAFFIC SIGNAL BACKPLATE
①	GROUND CABLE IN CONDUIT, NO. 6 SOLID COPPER (GREEN)
⏏	GROUND ROD AT POST (P) OR MAST ARM (MA) OR CONTROLLER (C) OR SERVICE INSTALLATION (S) OR HANDHOLE (H)



PROPOSED CABLE PLAN
NOT TO SCALE

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 CABLE PLAN
 FAP 68 ALT (IL 23 SB)/LA SALLE ST
 AND LAFAYETTE STREET
 SECTION 35,51 & 48 CS, 12)TS
 LA SALLE COUNTY

SCALE: VERT.
 HORIZ.
 DATE 11/08
 DRAWN BY ARR
 CHECKED BY JLS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	*	LA SALLE	48	12

STA. TO STA.

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

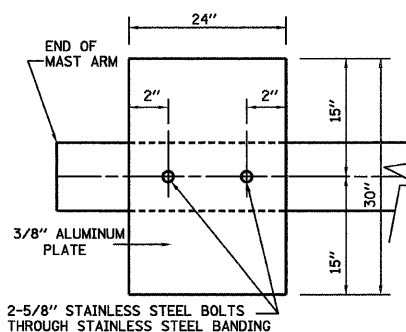
- FAP 68 & 68 ALT (IL 23 NB & SB)
- (35, 51 & 48 CS, 12)TS

ELECTRICAL LOAD FOR INTERSECTION				
STREET NAME	COMPONENT	NUMBER	WATTAGE EACH	BURNTIME %
LA SALLE STREET (IL 23 SB)	RED	4	10	42
	YELLOW	4	19	5
	GREEN	4	14	53
		4	7	100
		4	5	53
LAFAYETTE STREET	RED	4	10	68
	YELLOW	4	19	5
	GREEN	4	14	27
		4	7	100
		4	5	27
TRAFFIC SIGNAL CABINET	CONTROLLER	1	6	100
	UPS	1	50	100
	EMERGENCY VEHICLE PREEMPT	3	--	--

AGENCY RESPONSIBLE FOR TRAFFIC SIGNAL ENERGY CHARGES:
CITY OF OTTAWA

NOTE:

DAMPENING DEVICE SHALL CONSIST OF A 24" X 30" TYPE 1, UNPAINTED ALUMINUM SIGN STOCK MOUNTED HORIZONTALLY ON TOP OF MAST ARM WITH THE 30" LENGTH PERPENDICULAR TO THE ARM. COST OF THE DAMPENING DEVICE IS INCLUDED IN THE MAST ARM PAY ITEM.



2-5/8" STAINLESS STEEL BOLTS THROUGH STAINLESS STEEL BANDING

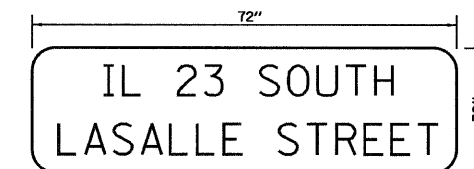
NOTE:
MOUNT DAMPENING PLATE TO END OF EACH TRAFFIC SIGNAL MAST ARM.

DAMPENING PLATE DETAIL - TOP VIEW



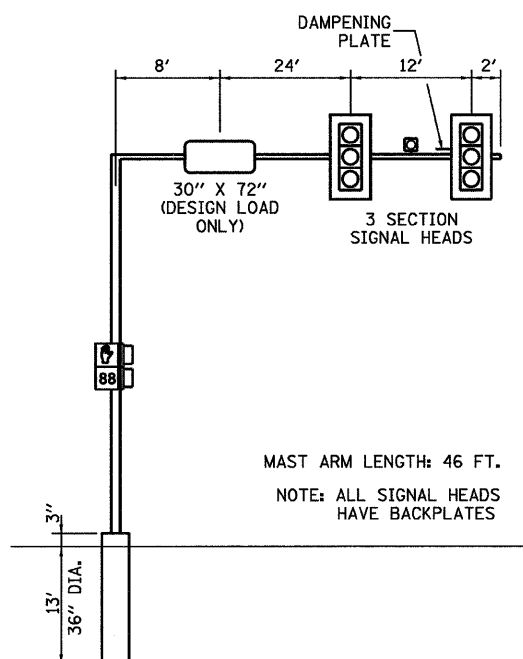
TYPE ZZ SHEETING REQUIRED
8" D SERIES LETTERS
1 SIGNS REQUIRED = 15 SQ. FT. EACH
= 15 SQ. FT. TOTAL

THIS STREET NAME SIGN SHALL BE PLACED ON THE MAST ARMS PARALLEL WITH LAFAYETTE STREET



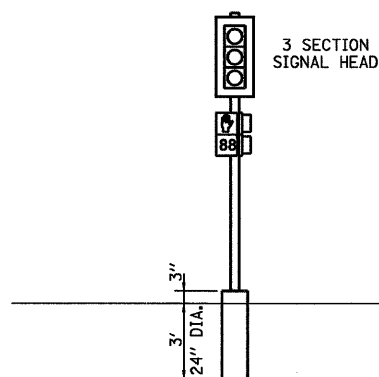
TYPE ZZ SHEETING REQUIRED
8" D SERIES LETTERS (STATE ROUTE LETTERING)
6" D SERIES LETTERS (CITY STREET LETTERING)
2 SIGNS REQUIRED = 15 SQ. FT. EACH
= 30 SQ. FT. TOTAL

THIS STREET NAME SIGN SHALL BE PLACED ON THE MAST ARMS PARALLEL WITH LA SALLE STREET



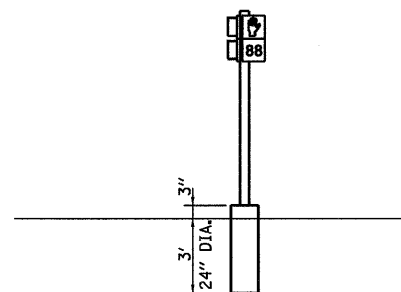
EASTBOUND

NORTHEAST CORNER
NOT TO SCALE



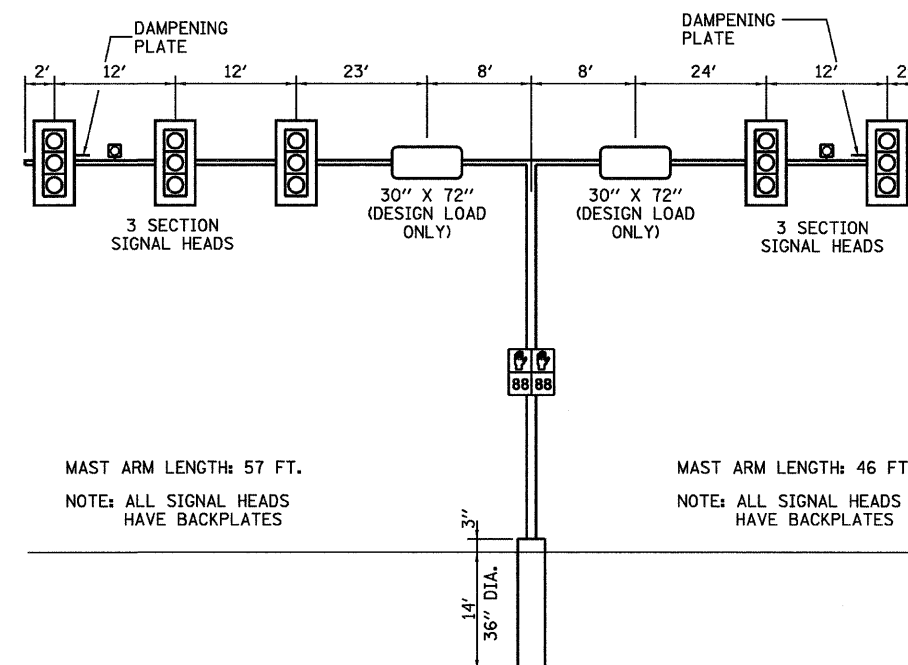
SOUTHBOUND

SOUTHEAST CORNER
NOT TO SCALE



WESTBOUND

NORTHWEST CORNER
NOT TO SCALE



SOUTHBOUND

SOUTHWEST CORNER
NOT TO SCALE

WESTBOUND

LA SALLE STREET (IL 23 SB) / LAFAYETTE STREET

MAST ARM AND POLE SHALL BE DESIGNED FOR THE WORST CASE LOADING CONDITION WHEREBY ALL THE SIGNAL HEADS ARE LOCATED 2 FEET FURTHER OUT THAN POSITION SHOWN. HOWEVER THE INTENT IS THAT ALL SIGNAL HEADS BE CENTERED ABOVE THE LANES.

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
TRAFFIC SIGNAL DETAILS
FAP 68 ALT (IL 23 SB)/LA SALLE ST
AND LAFAYETTE STREET
SECTION 35.51 & 48 CS, 12)TS
LA SALLE COUNTY

SCALE: VERT.
HORIZ.
DATE 11/08

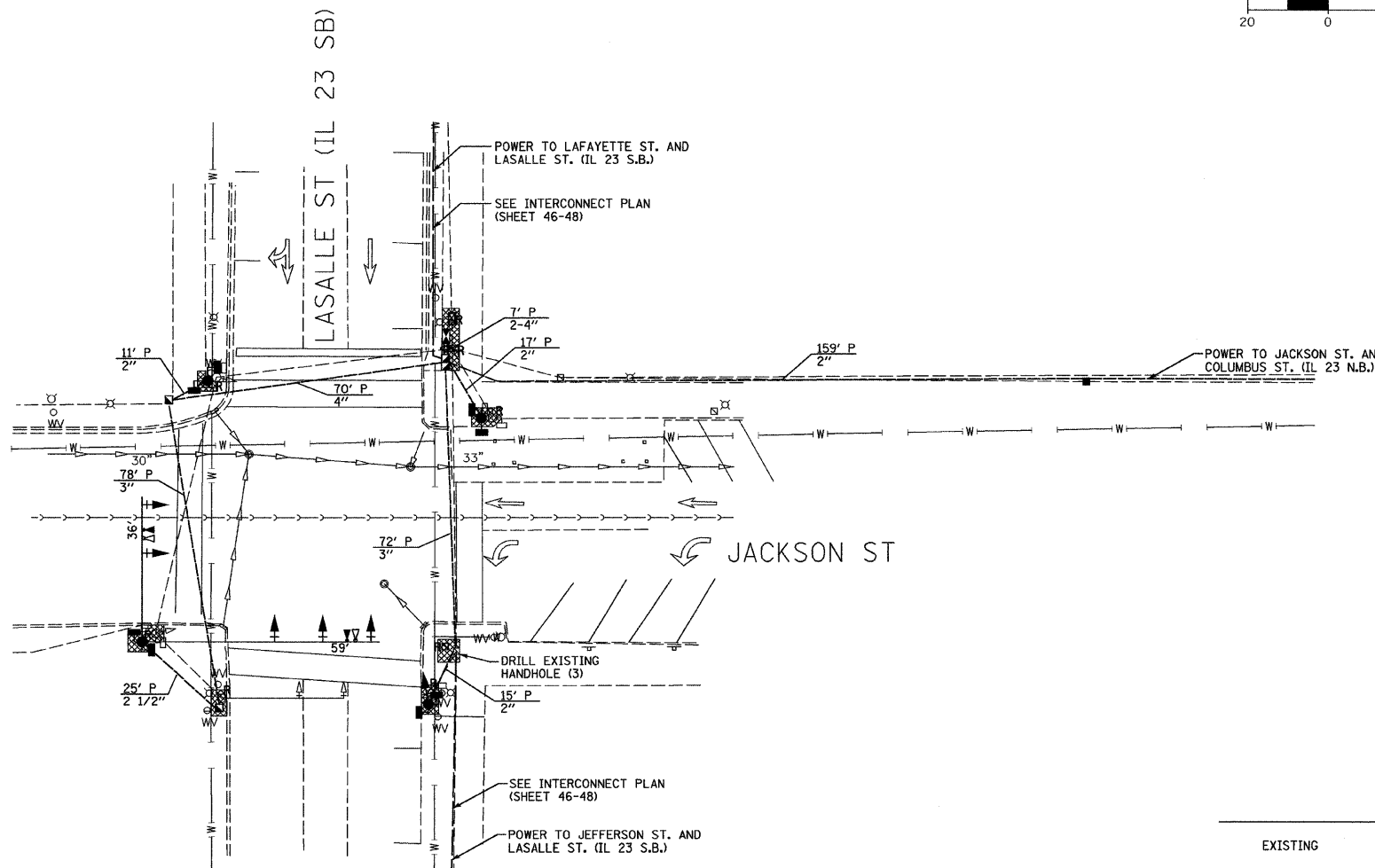
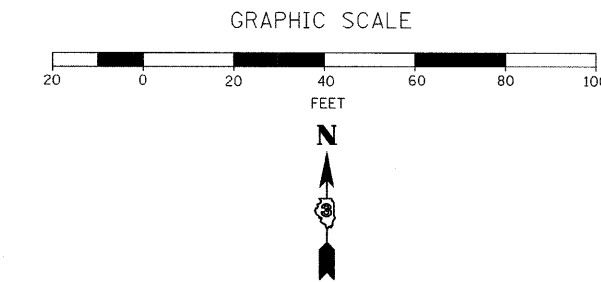
DRAWN BY ARR
CHECKED BY JLS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	**	LA SALLE	48	13

FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT
 * FAP 68 & 68 ALT (IL 23 NB & SB)
 ** (35, 51 & 48 CS, 12)TS

CONSTRUCTION NOTES:

- REMOVE AND REPLACE CONTROLLER AND CABINET ON NEW FOUNDATION.
- INSTALL UNINTERRUPTABLE POWER SUPPLY.
- REMOVE EXISTING MAST ARM AND POLE ON SOUTHWEST CORNER AND REPLACE WITH DUAL MAST ARM AND POLE ON NEW FOUNDATION AS SHOWN.
- REMOVE AND REPLACE TRAFFIC SIGNAL POSTS ON SOUTHEAST, NORTHEAST, AND NORTHWEST CORNERS ON NEW FOUNDATIONS AS SHOWN.
- ADJUST THE HANDHOLE ON THE SOUTHEAST CORNER WITH A NEW FRAME AND LID.
- NEW AND EXISTING HANDHOLES SHALL BE UTILIZED AS SHOWN.
- ALL EXISTING SIGNAL CABLE IN CONDUIT SHALL BE REMOVED.
- EXISTING FOUNDATION SHALL BE REMOVED AS SHOWN.
- REMOVAL OF THE FOLLOWING ITEMS SHALL BE PAID FOR AS REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT:
 - 1 EACH - CONTROLLER AND CABINET W/ ALL CONTENTS
 - 4 EACH - TRAFFIC SIGNAL POST
 - 1 EACH - MAST ARM AND POLE
 - 2 EACH - SIGNAL HEAD, 1-FACE, 3-SECTION, BRACKET MOUNTED
 - 2 EACH - SIGNAL HEAD, 1-FACE, 3-SECTION, MAST ARM MOUNTED
 - 8 EACH - PEDESTRIAN SIGNAL HEAD, 1-FACE, BRACKET MOUNTED



SCHEDULE OF QUANTITIES

ITEM NO.	DESCRIPTION	UNIT	TOTAL QUANTITY
42400100	PORTLAND CEMENT CONCRETE SIDEWALK, 4 INCH	SQ FT	199.1
44000600	SIDEWALK REMOVAL	SQ FT	238.3
50200400	ROCK EXCAVATION FOR STRUCTURES	CU YD	3
72000100	SIGN PANEL - TYPE 1	SQ FT	27.5
80500200	SERVICE INSTALLATION, TYPE B	EACH	1
81021330	CONDUIT PUSHED, 2" DIA., PVC	FOOT	202
81021340	CONDUIT PUSHED, 2 1/2" DIA., PVC	FOOT	25
81021350	CONDUIT PUSHED, 3" DIA., PVC	FOOT	150
81021370	CONDUIT PUSHED, 4" DIA., PVC	FOOT	84
81400700	HANDHOLE, PORTLAND CEMENT CONCRETE	EACH	2
81400720	DOUBLE HANDHOLE, PORTLAND CEMENT CONCRETE	EACH	1
85000200	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
85700205	FULL-ACTUATED CONTROLLER AND TYPE IV CABINET, SPECIAL	EACH	1
86200300	UNINTERRUPTABLE POWER SUPPLY, EXTENDED	EACH	1
86400100	TRANSCEIVER-FIBER OPTIC	EACH	1
87301225	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	1081
87301245	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	1521.5
87301805	ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2C	FOOT	185
87502270	TRAFFIC SIGNAL POST, PAINTED STEEL 12 FT.	EACH	2
87502310	TRAFFIC SIGNAL POST, PAINTED STEEL 16 FT.	EACH	1
87800100	CONCRETE FOUNDATION, TYPE A	FOOT	9
87800150	CONCRETE FOUNDATION, TYPE C	FOOT	3.5
87800415	CONCRETE FOUNDATION, TYPE E, 36 INCH DIAMETER	FOOT	15
87900200	DRILL EXISTING HANDHOLE	EACH	3
88040070	SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	1
88040090	SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED	EACH	5
88200410	TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC	EACH	6
88700200	LIGHT DETECTOR	EACH	2
88700300	LIGHT DETECTOR AMPLIFIER	EACH	1
89502300	REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	1523
89502375	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
89502380	REMOVE EXISTING HANDHOLE	EACH	3
89502385	REMOVE EXISTING CONCRETE FOUNDATION	EACH	6
X8730027	ELECTRIC CABLE IN CONDUIT, GROUNDING, NO. 6 1C	FOOT	504.5
X8730250	ELECTRIC CABLE IN CONDUIT, COMMUNICATION, NO. 20 3/C, TWISTED, SHIELDED	FOOT	555
XX002852	RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM	EACH	1
XX006533	PEDESTRIAN SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, BRACKET MOUNTED, COUNTDOWN TIMER	EACH	8
XX006668	HANDHOLE TO BE ADJUSTED WITH NEW FRAME AND COVER	EACH	1
*3002037	STEEL MAST ARM AND ASSEMBLY AND POLE WITH DUAL MAST ARMS, 36 FT. AND 59 FT.	EACH	1

TRAFFIC SIGNALS LEGEND

EXISTING	PROPOSED	DESCRIPTION
		CONTROLLER CABINET
		SERVICE INSTALLATION
		CONDUIT
		SIGNAL HEAD WITH BACKPLATE
		STEEL MAST ARM
		TRAFFIC SIGNAL POST
		HANDHOLE
		DOUBLE HANDHOLE
		PEDESTRIAN SIGNAL HEAD
		LIGHT DETECTOR
		CONFIRMATION BEACON

LEGEND

	SIDEWALK REMOVAL AND REPLACEMENT
--	----------------------------------

REVISIONS

NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
TRAFFIC SIGNAL PLAN
 FAP 68 ALT (IL 23 SB)/LA SALLE ST
 AND JACKSON STREET
 SECTION 35,51 & 48 CS, 12)TS
 LA SALLE COUNTY

SCALE: VERT. 1" = 20'
 HORIZ. 1" = 20'
 DATE 11/08

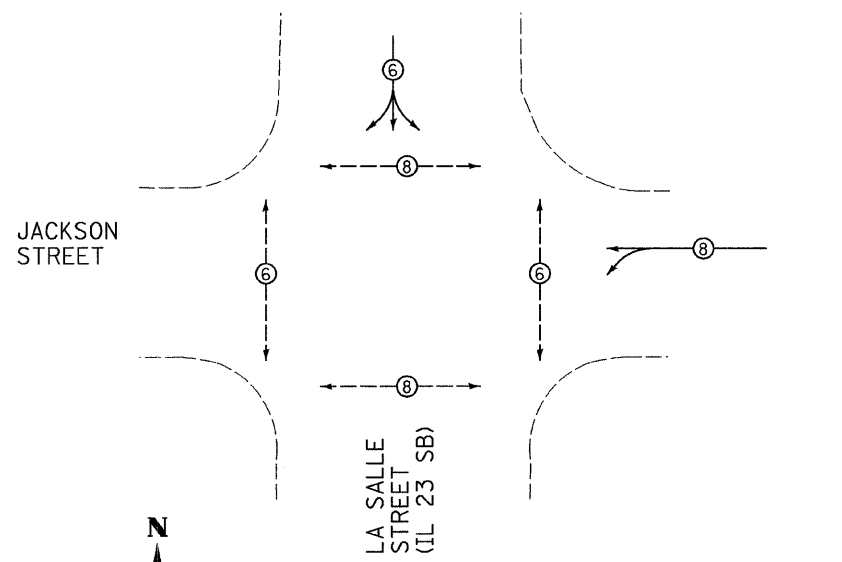
DRAWN BY ARR
 CHECKED BY JLS

PLOT DATE = 11/08
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 USER = ARR

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	**	LA SALLE	48	14
STA.		TO STA.		
FED. ROAD DIST. NO. _		ILLINOIS FED. AID PROJECT		
* FAP 68 & 68 ALT (IL 23 NB & SB) ** (35, 51 & 48 CS, 12)TS				

CONTROLLER SEQUENCE

NAME OF INTERSECTION: LA SALLE STREET AND JACKSON STREET
 CONTROLLER SPECIFIED: FULL-ACTUATED CONTROLLER, STANDARD SEQUENCE II, 8 PHASE, IN TYPE IV CABINET
 REFERRING TO STANDARD 857001, THE VEHICULAR AND PEDESTRIAN PHASES USED ARE DESIGNATED.



PROPOSED PLAN
NOT TO SCALE

LEGEND

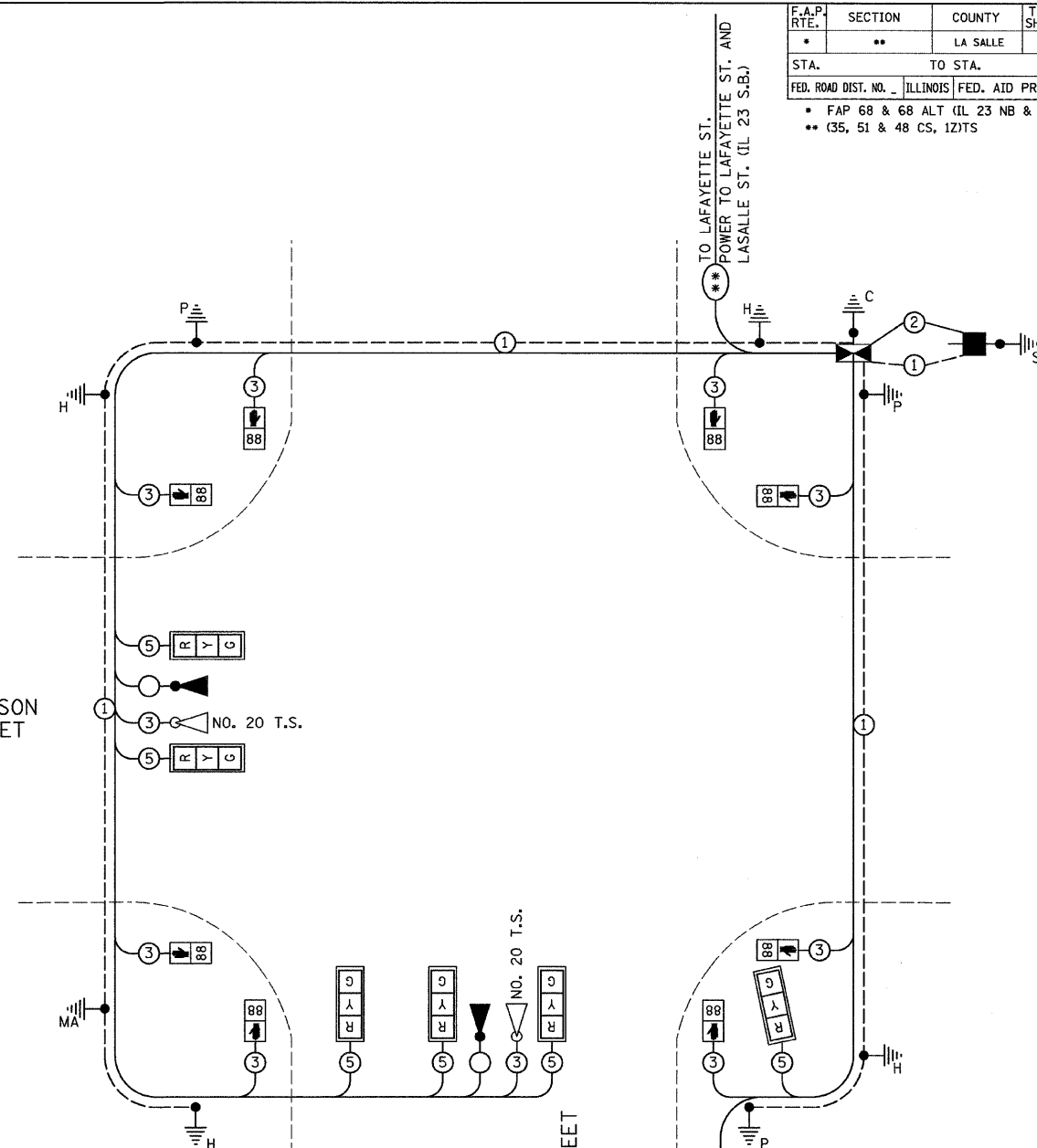
- VEHICULAR MOVEMENT
- - -●- - PEDESTRIAN MOVEMENT
- * NUMBER REFERS TO ASSOCIATED PHASE

TRAFFIC SIGNALS LEGEND

	DETNOTES NUMBER OF CONDUCTORS (NEW) ALL CABLE NO. 14 EXCEPT AS INDICATED
	PROPOSED SERVICE INSTALLATION, TYPE B
	PROPOSED CONTROLLER AND CABINET
	EMERGENCY VEHICLE LIGHT DETECTOR
	EMERGENCY VEHICLE CONFIRMATION BEACON
	SIGNAL SECTION 12"
	PROPOSED INTERCONNECT CABLE
	PROPOSED WALK/DONT WALK COUNTDOWN SECTION
	TRAFFIC SIGNAL BACKPLATE
	GROUND CABLE IN CONDUIT, NO. 6 SOLID COPPER (GREEN)
	GROUND ROD AT POST (P) OR MAST ARM (MA) OR CONTROLLER (C) OR SERVICE INSTALLATION (S) OR HANDHOLE (H)

JACKSON STREET

LA SALLE STREET
(IL 23 SB)



PROPOSED CABLE PLAN
NOT TO SCALE

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
CABLE PLAN
 FAP 68 ALT (IL 23 SB)/LA SALLE ST
 AND JACKSON STREET
 SECTION 35,51 & 48 CS, 12)TS
 LA SALLE COUNTY

SCALE: VERT.
 HORIZ.
 DATE 11/08

DRAWN BY ARR
 CHECKED BY JLS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	**	LA SALLE	48	15
STA.		TO STA.		
FED. ROAD DIST. NO. - ILLINOIS		FED. AID PROJECT		

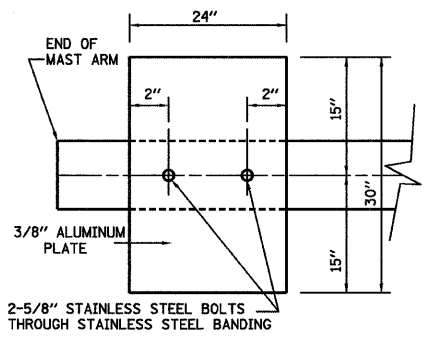
* FAP 68 & 68 ALT (IL 23 NB & SB)
 ** (35, 51 & 48 CS, 12)TS

ELECTRICAL LOAD FOR INTERSECTION				
STREET NAME	COMPONENT	NUMBER	WATTAGE EACH	BURNTIME %
LA SALLE STREET (IL 23 SB)	RED	4	10	42
	YELLOW	4	19	5
	GREEN	4	14	53
		4	7	100
		4	5	53
JACKSON STREET	RED	4	10	68
	YELLOW	4	19	5
	GREEN	4	14	27
		4	7	100
		4	5	27
TRAFFIC SIGNAL CABINET	CONTROLLER	1	6	100
	UPS	1	50	100
	EMERGENCY VEHICLE PREEMPT	3	--	--

AGENCY RESPONSIBLE FOR TRAFFIC SIGNAL ENERGY CHARGES:
 CITY OF OTTAWA

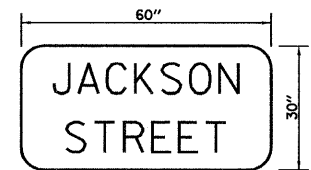
NOTE:

DAMPENING DEVICE SHALL CONSIST OF A 24" X 30" TYPE 1, UNPAINTED ALUMINUM SIGN STOCK MOUNTED HORIZONTALLY ON TOP OF MAST ARM WITH THE 30" LENGTH PERPENDICULAR TO THE ARM. COST OF THE DAMPENING DEVICE IS INCLUDED IN THE MAST ARM PAY ITEM.



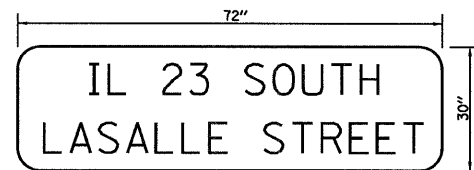
NOTE:
 MOUNT DAMPENING PLATE TO END OF EACH TRAFFIC SIGNAL MAST ARM.

DAMPENING PLATE DETAIL - TOP VIEW



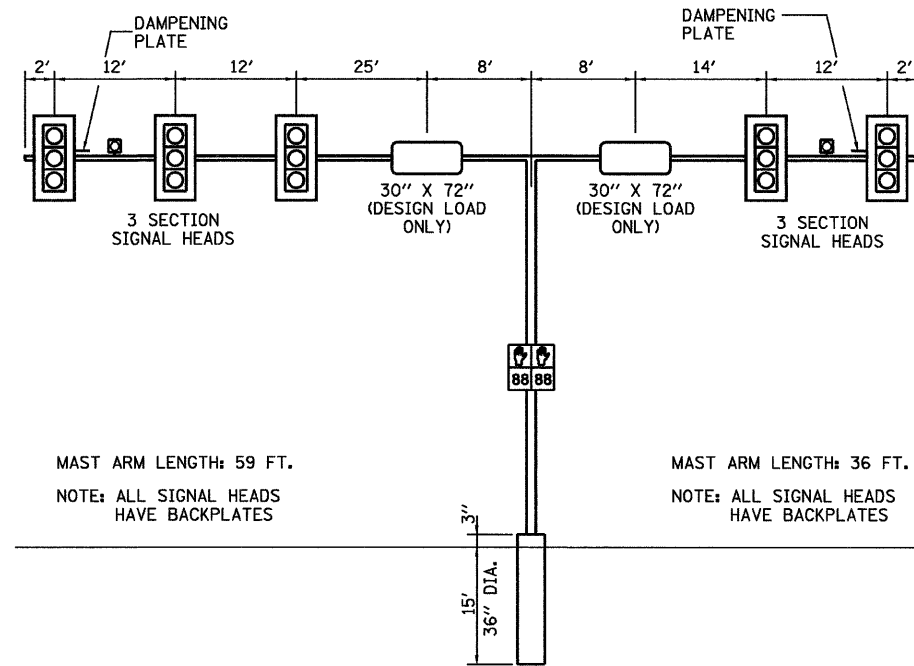
TYPE ZZ SHEETING REQUIRED
 8" D SERIES LETTERS
 1 SIGNS REQUIRED = 12.5 SQ. FT. EACH
 = 12.5 SQ. FT. TOTAL

THIS STREET NAME SIGN SHALL BE PLACED ON THE MAST ARMS PARALLEL WITH JACKSON STREET



TYPE ZZ SHEETING REQUIRED
 8" D SERIES LETTERS (STATE ROUTE LETTERING)
 6" D SERIES LETTERS (CITY STREET LETTERING)
 1 SIGNS REQUIRED = 15 SQ. FT. EACH
 = 15 SQ. FT. TOTAL

THIS STREET NAME SIGN SHALL BE PLACED ON THE MAST ARMS PARALLEL WITH LA SALLE STREET

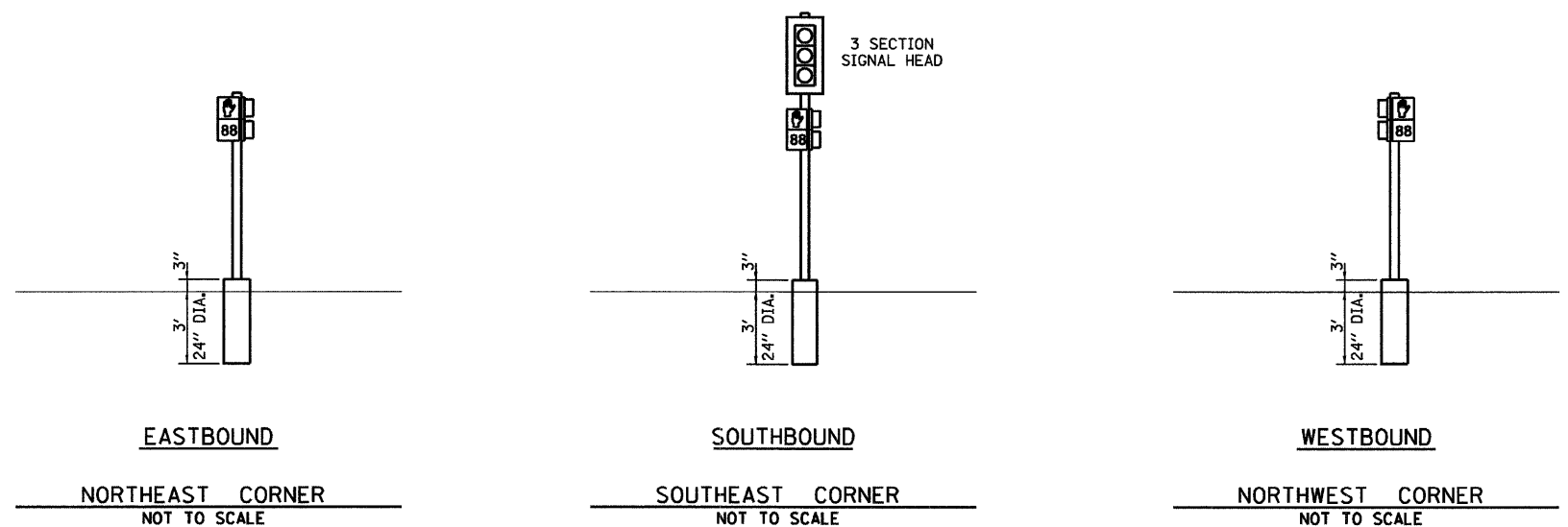


MAST ARM LENGTH: 59 FT.

NOTE: ALL SIGNAL HEADS HAVE BACKPLATES

MAST ARM LENGTH: 36 FT.

NOTE: ALL SIGNAL HEADS HAVE BACKPLATES



EASTBOUND

SOUTHBOUND

WESTBOUND

NORTHEAST CORNER
 NOT TO SCALE

SOUTHEAST CORNER
 NOT TO SCALE

NORTHWEST CORNER
 NOT TO SCALE

SOUTHBOUND

WESTBOUND

SOUTHWEST CORNER
 NOT TO SCALE

LA SALLE STREET (IL 23 SB) / JACKSON STREET

MAST ARM AND POLE SHALL BE DESIGNED FOR THE WORST CASE LOADING CONDITION WHEREBY ALL THE SIGNAL HEADS ARE LOCATED 2 FEET FURTHER OUT THAN POSITION SHOWN. HOWEVER THE INTENT IS THAT ALL SIGNAL HEADS BE CENTERED ABOVE THE LANES.

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 TRAFFIC SIGNAL DETAILS
 FAP 68 ALT (IL 23 SB)/LA SALLE ST
 AND JACKSON STREET
 SECTION 35.51 & 48 CS, 12)TS
 LA SALLE COUNTY

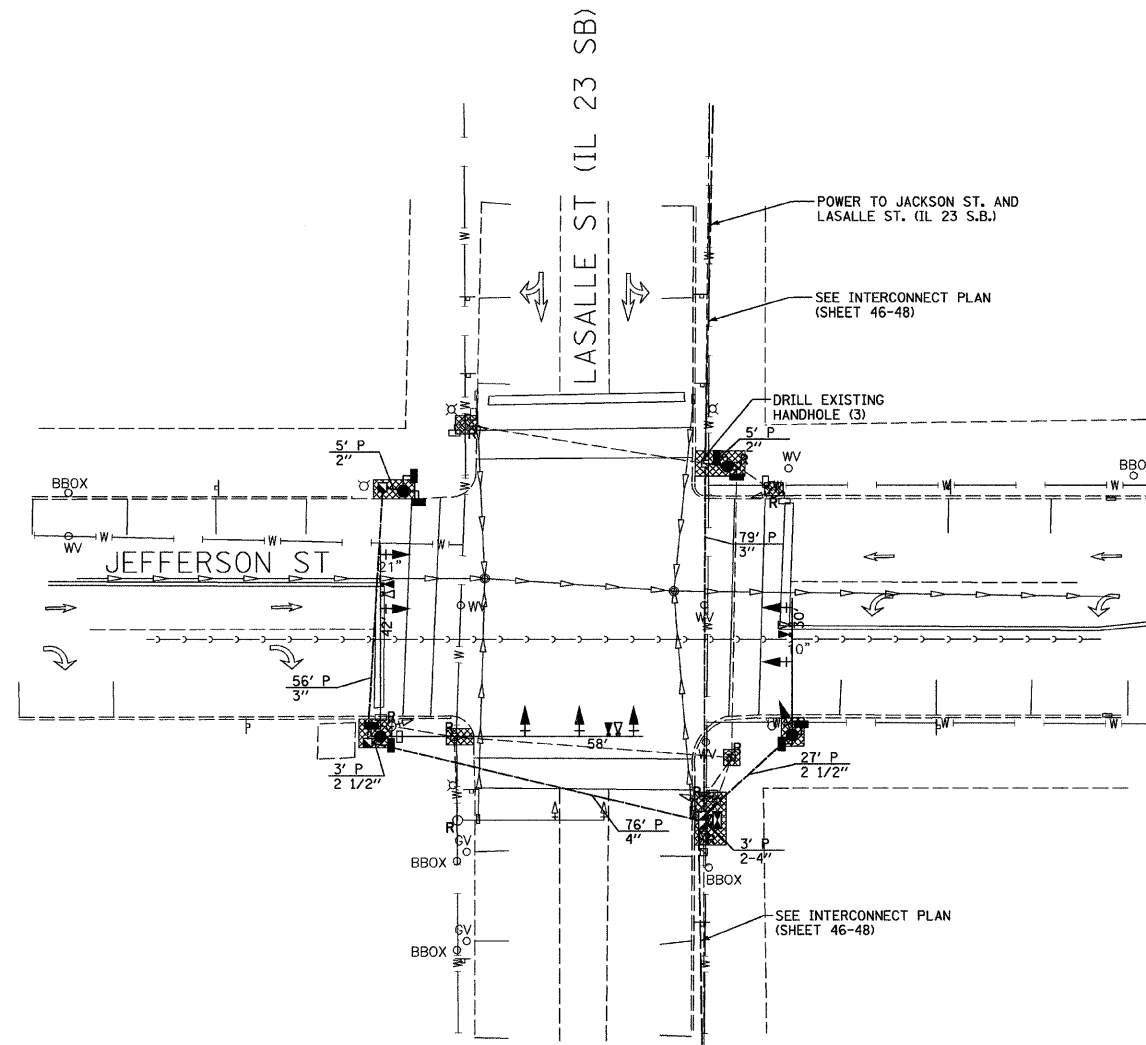
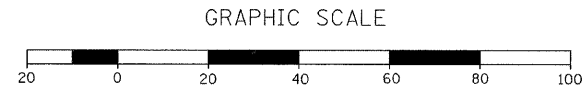
SCALE: VERT. DRAWN BY ARR
 HORIZ. CHECKED BY JLS
 DATE 11/08

PLOT DATE = 11/08
 FILE NAME = D366769-SHT-DETAILS-LASALLE-JACK.dgn
 USER = ARR

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	**	LA SALLE	48	16
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
* FAP 68 & 68 ALT (IL 23 NB & SB)				
** (35, 51 & 48 CS, 12)TS				

CONSTRUCTION NOTES:

- REMOVE AND REPLACE CONTROLLER AND CABINET ON NEW FOUNDATION.
- INSTALL UNINTERRUPTABLE POWER SUPPLY.
- REMOVE EXISTING MAST ARM AND POLE ON SOUTHWEST CORNER AND REPLACE WITH DUAL MAST ARM AND POLE ON NEW FOUNDATION AS SHOWN.
- REMOVE EXISTING TRAFFIC SIGNAL POST ON SOUTHEAST CORNER AND REPLACE WITH MAST ARM AND POLE ON NEW FOUNDATION AS SHOWN.
- REMOVE AND REPLACE TRAFFIC SIGNAL POSTS ON NORTHEAST AND NORTHWEST CORNERS ON NEW FOUNDATIONS AS SHOWN.
- ADJUST THE HANDHOLE ON THE NORTHEAST CORNER WITH A NEW FRAME AND LID. THIS ADJUSTMENT SHALL INCLUDE THE REMOVAL AND RE-CASTING OF AT LEAST THE TOP 12 INCHES OF THE EXISTING HANDHOLE.
- THE USE OF BRACKET EXTENSIONS MAY BE REQUIRED TO ALIGN PEDESTRIAN SIGNAL HEADS WITH CROSSWALKS IN ORDER TO ENSURE PEDESTRIAN VISIBILITY. THE COST OF ANY ADDITIONAL BRACKET EXTENSIONS OR COMPONENTS SHALL BE CONSIDERED INCLUDED WITH THE COST OF THE ASSOCIATED TRAFFIC SIGNAL PAY ITEM
- NEW AND EXISTING HANDHOLES SHALL BE UTILIZED AS SHOWN.
- ALL EXISTING SIGNAL CABLE IN CONDUIT SHALL BE REMOVED.
- EXISTING FOUNDATIONS SHALL BE REMOVED AS SHOWN.
- REMOVAL OF THE FOLLOWING ITEMS SHALL BE PAID FOR AS REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT:
 - 1 EACH - CONTROLLER AND CABINET W/ ALL CONTENTS
 - 4 EACH - TRAFFIC SIGNAL POST
 - 1 EACH - MAST ARM AND POLE
 - 4 EACH - SIGNAL HEAD, 1-FACE, 3-SECTION, BRACKET MOUNTED
 - 2 EACH - SIGNAL HEAD, 1-FACE, 3-SECTION, MAST ARM MOUNTED
 - 8 EACH - PEDESTRIAN SIGNAL HEAD, 1-FACE, BRACKET MOUNTED

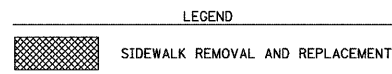


SCHEDULE OF QUANTITIES

ITEM NO.	DESCRIPTION	UNIT	TOTAL QUANTITY
42400100	PORTLAND CEMENT CONCRETE SIDEWALK, 4 INCH	SQ FT	263.9
44000600	SIDEWALK REMOVAL	SQ FT	297.3
50200400	ROCK EXCAVATION FOR STRUCTURES	CU YD	3.5
72000100	SIGN PANEL - TYPE 1	SQ FT	45
81021330	CONDUIT PUSHED, 2" DIA., PVC	FOOT	10
81021340	CONDUIT PUSHED, 2 1/2" DIA., PVC	FOOT	30
81021350	CONDUIT PUSHED, 3" DIA., PVC	FOOT	135
81021370	CONDUIT PUSHED, 4" DIA., PVC	FOOT	82
81400700	HANDHOLE, PORTLAND CEMENT CONCRETE	EACH	2
81400720	DOUBLE HANDHOLE, PORTLAND CEMENT CONCRETE	EACH	1
85000200	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
85700205	FULL-ACTUATED CONTROLLER AND TYPE IV CABINET, SPECIAL	EACH	1
86200300	UNINTERRUPTABLE POWER SUPPLY, EXTENDED	EACH	1
86400100	TRANSCIEVER-FIBER OPTIC	EACH	1
87301225	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	986
87301245	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	1126.5
87301805	ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2C	FOOT	524
87502270	TRAFFIC SIGNAL POST, PAINTED STEEL 12 FT.	EACH	2
87700190	STEEL MAST ARM AND ASSEMBLY AND POLE, 30 FT.	EACH	1
87800100	CONCRETE FOUNDATION, TYPE A	FOOT	6
87800150	CONCRETE FOUNDATION, TYPE C	FOOT	3.5
87800415	CONCRETE FOUNDATION, TYPE E, 36 INCH DIAMETER	FOOT	27.5
87900200	DRILL EXISTING HANDHOLE	EACH	3
88040070	SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	1
88040090	SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED	EACH	7
88200410	TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC	EACH	8
88700200	LIGHT DETECTOR	EACH	3
88700300	LIGHT DETECTOR AMPLIFIER	EACH	1
89502300	REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	2062.5
89502375	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
89502380	REMOVE EXISTING HANDHOLE	EACH	4
89502385	REMOVE EXISTING CONCRETE FOUNDATION	EACH	6
X8730027	ELECTRIC CABLE IN CONDUIT, GROUNDING, NO. 6 1C	FOOT	296.5
X8730250	ELECTRIC CABLE IN CONDUIT, COMMUNICATION, NO. 20 3/C, TWISTED, SHIELDED	FOOT	448
XX002852	RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM	EACH	1
XX006533	PEDESTRIAN SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, BRACKET MOUNTED, COUNTDOWN TIMER	EACH	8
XX006668	HANDHOLE TO BE ADJUSTED WITH NEW FRAME AND COVER	EACH	1
*3002040	STEEL MAST ARM AND ASSEMBLY AND POLE WITH DUAL MAST ARMS, 42 FT. AND 58 FT.	EACH	1

TRAFFIC SIGNALS LEGEND

EXISTING	PROPOSED	DESCRIPTION
		CONTROLLER CABINET
		SERVICE INSTALLATION
		CONDUIT
		SIGNAL HEAD WITH BACKPLATE
		STEEL MAST ARM
		TRAFFIC SIGNAL POST
		HANDHOLE
		DOUBLE HANDHOLE
		PEDESTRIAN SIGNAL HEAD
		LIGHT DETECTOR
		CONFIRMATION BEACON



REVISIONS

NAME	DATE

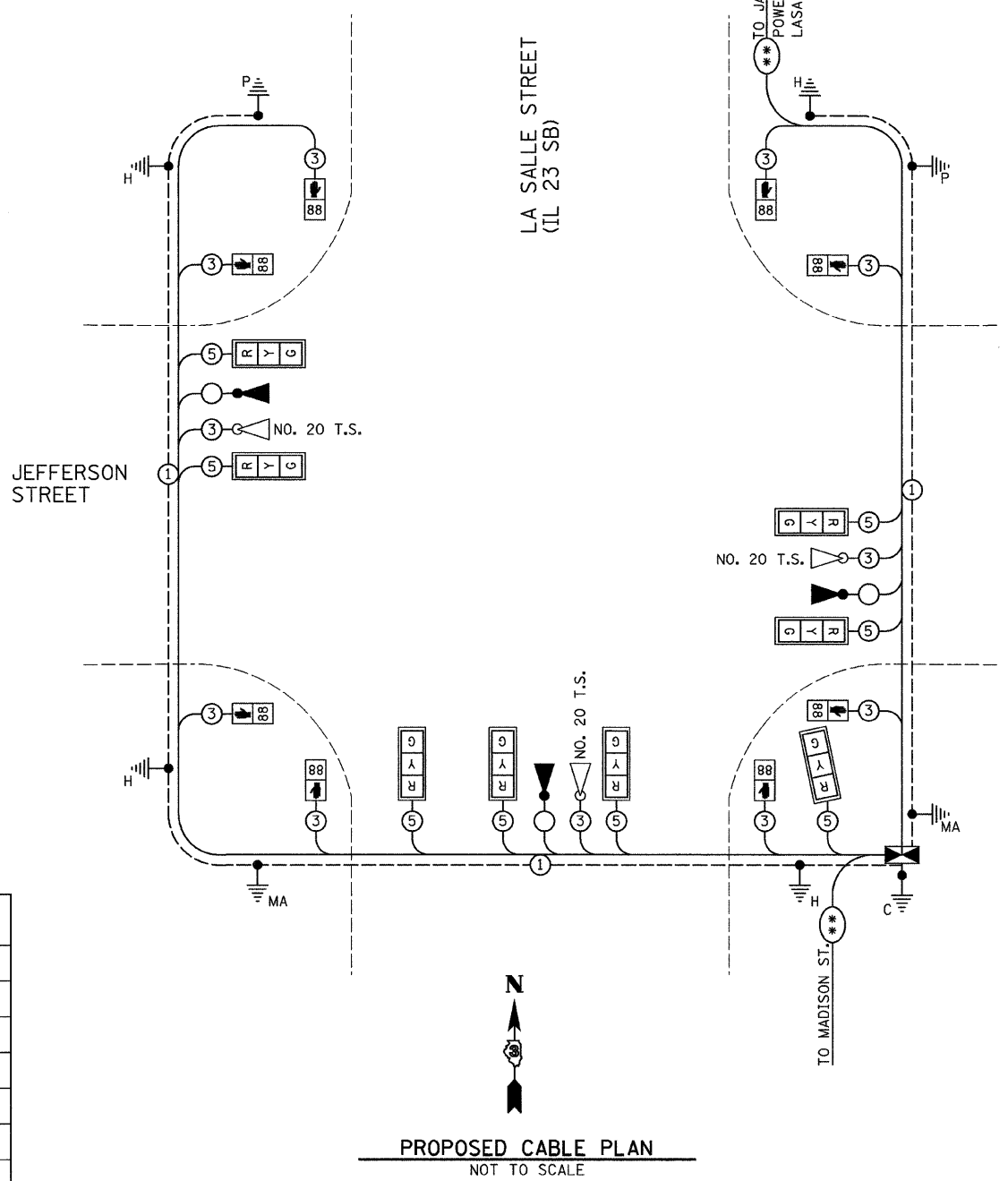
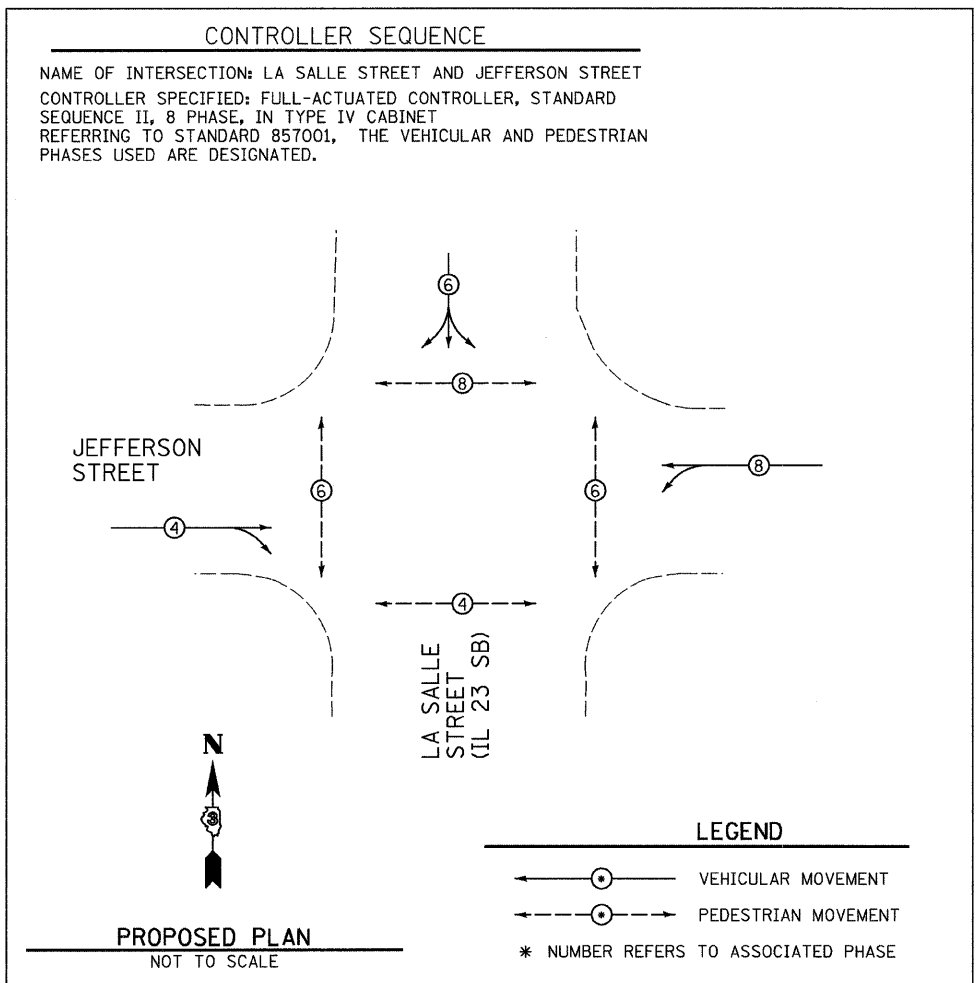
ILLINOIS DEPARTMENT OF TRANSPORTATION
 TRAFFIC SIGNAL PLAN
 FAP 68 ALT (IL 23 SB)/LA SALLE ST
 AND JEFFERSON STREET
 SECTION 35,51 & 48 CS, 12)TS
 LA SALLE COUNTY

SCALE: VERT. 1" = 20'
 HORIZ. 1" = 20'
 DATE 11/08

DRAWN BY ARR
 CHECKED BY JLS

PLOT DATE = 11/08
 FILE NAME = D:\66769\99-SHT-TS-LASA-JEFF.DGN
 USER = JLS
 PLOT SCALE = 1" = 20'
 USER NAME = ARR

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	**	LA SALLE	48	17
STA. TO STA.				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				
* FAP 68 & 68 ALT (IL 23 NB & SB)				
** (35, 51 & 48 CS, 12)TS				



TRAFFIC SIGNALS LEGEND

	DETNOTES NUMBER OF CONDUCTORS (NEW) ALL CABLE NO. 14 EXCEPT AS INDICATED
	PROPOSED SERVICE INSTALLATION, TYPE B
	PROPOSED CONTROLLER AND CABINET
	EMERGENCY VEHICLE LIGHT DETECTOR
	EMERGENCY VEHICLE CONFIRMATION BEACON
	SIGNAL SECTION 12"
	PROPOSED INTERCONNECT CABLE
	PROPOSED WALK/DONT WALK COUNTDOWN SECTION
	TRAFFIC SIGNAL BACKPLATE
	GROUND CABLE IN CONDUIT, NO. 6 SOLID COPPER (GREEN)
	GROUND ROD AT POST (P) OR MAST ARM (MA) OR CONTROLLER (C) OR SERVICE INSTALLATION (S) OR HANDHOLE (H)

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
CABLE PLAN
 FAP 68 ALT (IL 23 SB)/LA SALLE ST
 AND JEFFERSON STREET
 SECTION 35.51 & 48 CS, 12)TS
 LA SALLE COUNTY

SCALE: VERT. _____
 HORIZ. _____
 DATE 11/08

DRAWN BY ARR
 CHECKED BY JLS

PLOT DATE = 11/08
 FILE NAME = D:\66769\99-SHT-CABLE-LASA-JEFF.DGN
 PLOT SCALE = 1" = 20'
 USER NAME = ARR

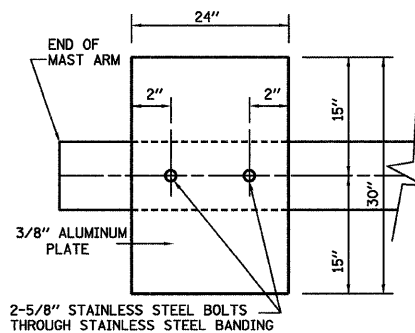
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
•	••	LA SALLE	48	18
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
• FAP 68 & 68 ALT (IL 23 NB & SB)				
•• (35, 51 & 48 CS, 12)TS				

ELECTRICAL LOAD FOR INTERSECTION				
STREET NAME	COMPONENT	NUMBER	WATTAGE EACH	BURNTIME %
LA SALLE STREET (IL 23 SB)	RED	4	10	42
	YELLOW	4	19	5
	GREEN	4	14	53
	88	4	7	100
JEFFERSON STREET	RED	4	10	68
	YELLOW	4	19	5
	GREEN	4	14	27
	88	4	7	100
TRAFFIC SIGNAL CABINET	CONTROLLER	1	6	100
	UPS	1	50	100
	EMERGENCY VEHICLE PREEMPT	3	--	--

AGENCY RESPONSIBLE FOR TRAFFIC SIGNAL ENERGY CHARGES:
CITY OF OTTAWA

NOTE:

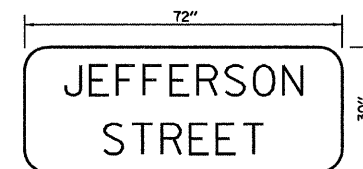
DAMPENING DEVICE SHALL CONSIST OF A 24" X 30" TYPE 1, UNPAINTED ALUMINUM SIGN STOCK MOUNTED HORIZONTALLY ON TOP OF MAST ARM WITH THE 30" LENGTH PERPENDICULAR TO THE ARM. COST OF THE DAMPENING DEVICE IS INCLUDED IN THE MAST ARM PAY ITEM.



2-5/8" STAINLESS STEEL BOLTS THROUGH STAINLESS STEEL BANDING

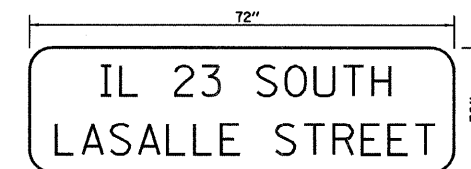
NOTE: MOUNT DAMPENING PLATE TO END OF EACH TRAFFIC SIGNAL MAST ARM.

DAMPENING PLATE DETAIL - TOP VIEW



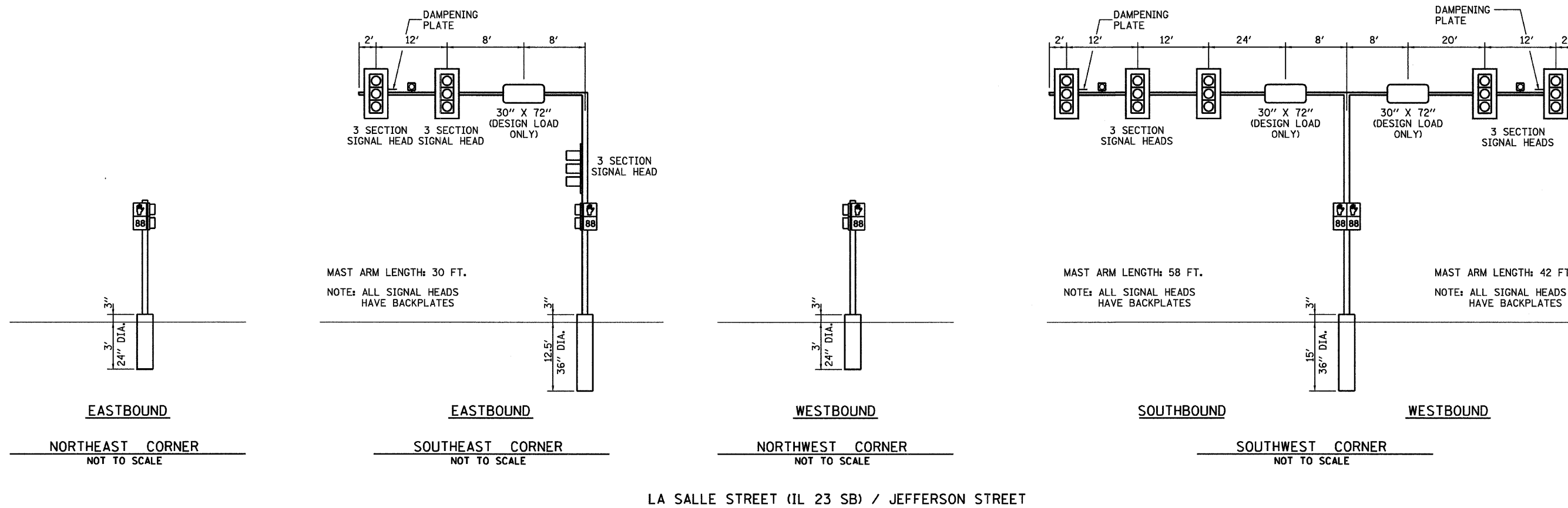
TYPE ZZ SHEETING REQUIRED
8" D SERIES LETTERS
1 SIGNS REQUIRED = 15 SQ. FT. EACH
= 15 SQ. FT. TOTAL

THIS STREET NAME SIGN SHALL BE PLACED ON THE MAST ARMS PARALLEL WITH JEFFERSON STREET



TYPE ZZ SHEETING REQUIRED
8" D SERIES LETTERS (STATE ROUTE LETTERING)
6" D SERIES LETTERS (CITY STREET LETTERING)
2 SIGNS REQUIRED = 15 SQ. FT. EACH
= 30 SQ. FT. TOTAL

THIS STREET NAME SIGN SHALL BE PLACED ON THE MAST ARMS PARALLEL WITH LA SALLE STREET



MAST ARM LENGTH: 30 FT.
NOTE: ALL SIGNAL HEADS HAVE BACKPLATES

MAST ARM LENGTH: 58 FT.
NOTE: ALL SIGNAL HEADS HAVE BACKPLATES

MAST ARM LENGTH: 42 FT.
NOTE: ALL SIGNAL HEADS HAVE BACKPLATES

MAST ARM AND POLE SHALL BE DESIGNED FOR THE WORST CASE LOADING CONDITION WHEREBY ALL THE SIGNAL HEADS ARE LOCATED 2 FEET FURTHER OUT THAN POSITION SHOWN. HOWEVER THE INTENT IS THAT ALL SIGNAL HEADS BE CENTERED ABOVE THE LANES.

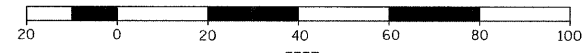
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
TRAFFIC SIGNAL DETAILS
FAP 68 ALT (IL 23 SB)/LA SALLE ST
AND JEFFERSON STREET
SECTION 35,51 & 48 CS, 12)TS
LA SALLE COUNTY

SCALE: VERT. HORIZ.
DATE 11/08
DRAWN BY ARR
CHECKED BY JLS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	**	LA SALLE	48	19
STA.		TO STA.		
FED. ROAD DIST. NO. _		ILLINOIS FED. AID PROJECT		
* FAP 68 & 68 ALT (IL 23 NB & SB) ** (35, 51 & 48 CS, 12)TS				

GRAPHIC SCALE



FEET

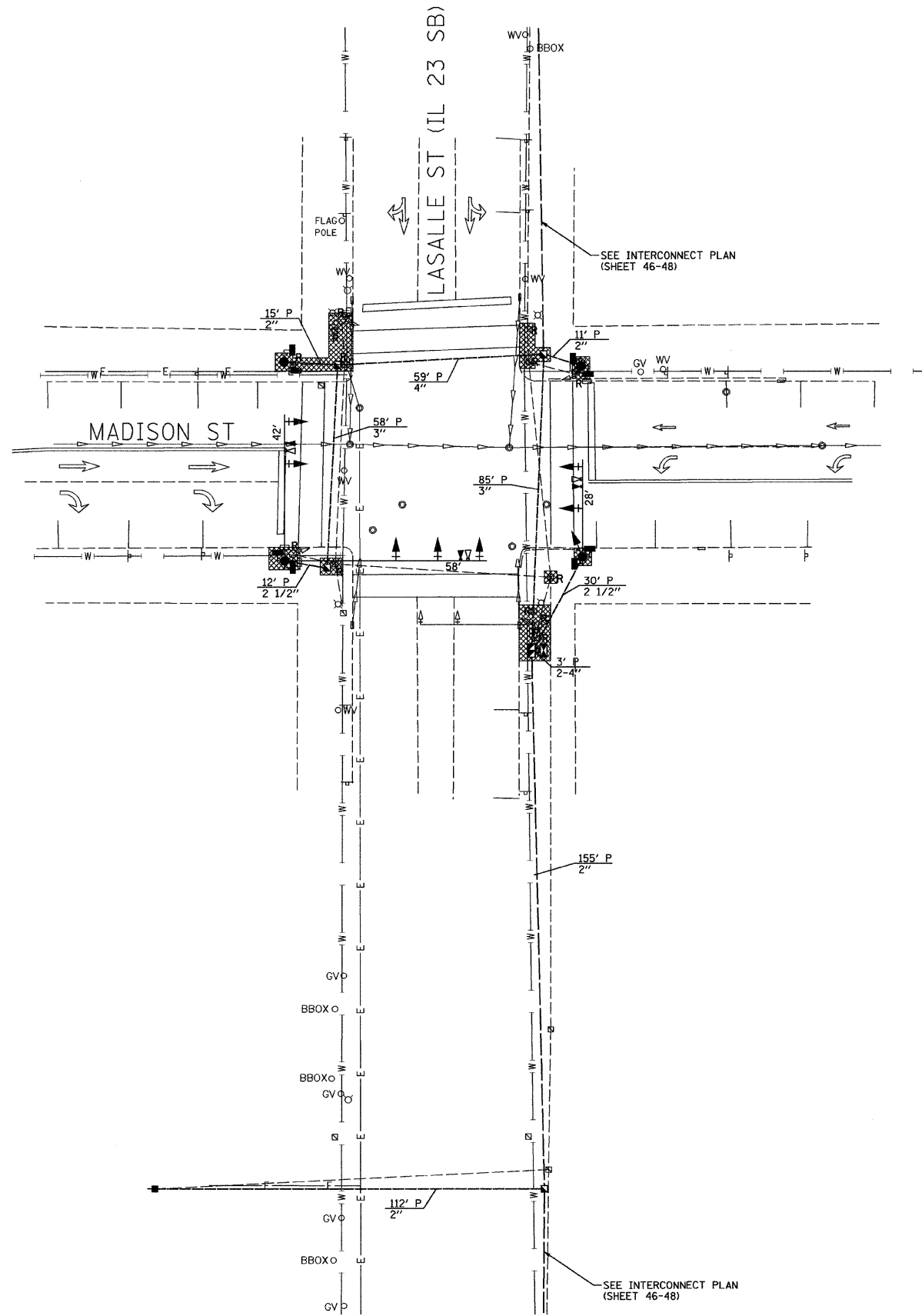


CONSTRUCTION NOTES:

- REMOVE AND REPLACE CONTROLLER AND CABINET ON NEW FOUNDATION.
- INSTALL UNINTERRUPTABLE POWER SUPPLY.
- REMOVE EXISTING TRAFFIC SIGNAL POST ON SOUTHWEST CORNER AND REPLACE WITH DUAL MAST ARM AND POLE ON NEW FOUNDATION AS SHOWN.
- REMOVE EXISTING MAST ARM AND POLE ON SOUTHEAST CORNER AND REPLACE WITH MAST ARM AND POLE ON NEW FOUNDATION AS SHOWN.
- REMOVE AND REPLACE TRAFFIC SIGNAL POSTS ON NORTHEAST AND NORTHWEST CORNERS ON NEW FOUNDATIONS AS SHOWN.
- THE USE OF BRACKET EXTENSIONS MAY BE REQUIRED TO ALIGN PEDESTRIAN SIGNAL HEADS WITH CROSSWALKS IN ORDER TO ENSURE PEDESTRIAN VISIBILITY. THE COST OF ANY ADDITIONAL BRACKET EXTENSIONS OR COMPONENTS SHALL BE CONSIDERED INCLUDED WITH THE COST OF THE ASSOCIATED TRAFFIC SIGNAL PAY ITEM
- NEW HANDHOLES SHALL BE UTILIZED AS SHOWN.
- ALL EXISTING SIGNAL CABLE IN CONDUIT SHALL BE REMOVED.
- EXISTING FOUNDATIONS SHALL BE REMOVED AS SHOWN.
- REMOVAL OF THE FOLLOWING ITEMS SHALL BE PAID FOR AS REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT:
 - 1 EACH - CONTROLLER AND CABINET W/ ALL CONTENTS
 - 3 EACH - TRAFFIC SIGNAL POST
 - 1 EACH - MAST ARM AND POLE
 - 4 EACH - SIGNAL HEAD, 1-FACE, 3-SECTION, BRACKET MOUNTED
 - 2 EACH - SIGNAL HEAD, 1-FACE, 3-SECTION, MAST ARM MOUNTED
 - 8 EACH - PEDESTRIAN SIGNAL HEAD, 1-FACE, BRACKET MOUNTED

SCHEDULE OF QUANTITIES

ITEM NO.	DESCRIPTION	UNIT	TOTAL QUANTITY
42400100	PORTLAND CEMENT CONCRETE SIDEWALK, 4 INCH	SQ FT	502.5
42400800	DETECTABLE WARNINGS	SQ FT	12
44000600	SIDEWALK REMOVAL	SQ FT	530.6
50200400	ROCK EXCAVATION FOR STRUCTURES	CU YD	1.1
72000100	SIGN PANEL - TYPE 1	SQ FT	41.25
80500200	SERVICE INSTALLATION, TYPE B	EACH	1
81021330	CONDUIT PUSHED, 2" DIA., PVC	FOOT	138
81021340	CONDUIT PUSHED, 2 1/2" DIA., PVC	FOOT	42
81021350	CONDUIT PUSHED, 3" DIA., PVC	FOOT	143
81021370	CONDUIT PUSHED, 4" DIA., PVC	FOOT	65
81400700	HANDHOLE, PORTLAND CEMENT CONCRETE	EACH	4
81400720	DOUBLE HANDHOLE, PORTLAND CEMENT CONCRETE	EACH	1
85000200	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
85700205	FULL-ACTUATED CONTROLLER AND TYPE IV CABINET, SPECIAL	EACH	1
86200300	UNINTERRUPTABLE POWER SUPPLY, EXTENDED	EACH	1
86400100	TRANSCEIVER-FIBER OPTIC	EACH	1
87301225	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	1356
87301245	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	1877.5
87301805	ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2C	FOOT	295.5
87502270	TRAFFIC SIGNAL POST, PAINTED STEEL 12 FT.	EACH	2
87700180	STEEL MAST ARM AND ASSEMBLY AND POLE, 28 FT.	EACH	1
87800100	CONCRETE FOUNDATION, TYPE A	FOOT	6
87800150	CONCRETE FOUNDATION, TYPE C	FOOT	3.5
87800415	CONCRETE FOUNDATION, TYPE E, 36 INCH DIAMETER	FOOT	27.5
88040070	SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	1
88040090	SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED	EACH	7
88200410	TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC	EACH	8
88700200	LIGHT DETECTOR	EACH	3
88700300	LIGHT DETECTOR AMPLIFIER	EACH	1
89502300	REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	1738.5
89502375	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
89502380	REMOVE EXISTING HANDHOLE	EACH	9
89502385	REMOVE EXISTING CONCRETE FOUNDATION	EACH	5
X8730027	ELECTRIC CABLE IN CONDUIT, GROUNDING, NO. 6 1C	FOOT	442
X8730250	ELECTRIC CABLE IN CONDUIT, COMMUNICATION, NO. 20 3/C, TWISTED, SHIELDED	FOOT	745
XX002852	RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM	EACH	1
XX006533	PEDESTRIAN SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, BRACKET MOUNTED, COUNTDOWN TIMER	EACH	8
*3002040	STEEL MAST ARM AND ASSEMBLY AND POLE WITH DUAL MAST ARMS, 42 FT. AND 58 FT.	EACH	1



TRAFFIC SIGNALS LEGEND

EXISTING	PROPOSED	DESCRIPTION
		CONTROLLER CABINET
		SERVICE INSTALLATION
		CONDUIT
		SIGNAL HEAD WITH BACKPLATE
		STEEL MAST ARM
		TRAFFIC SIGNAL POST
		HANDHOLE
		DOUBLE HANDHOLE
		PEDESTRIAN SIGNAL HEAD
		LIGHT DETECTOR
		CONFIRMATION BEACON

REVISIONS

NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 TRAFFIC SIGNAL PLAN
 FAP 68 ALT (IL 23 SB)/LA SALLE ST
 AND MADISON STREET
 SECTION 35,51 & 48 CS, 12)TS
 LA SALLE COUNTY

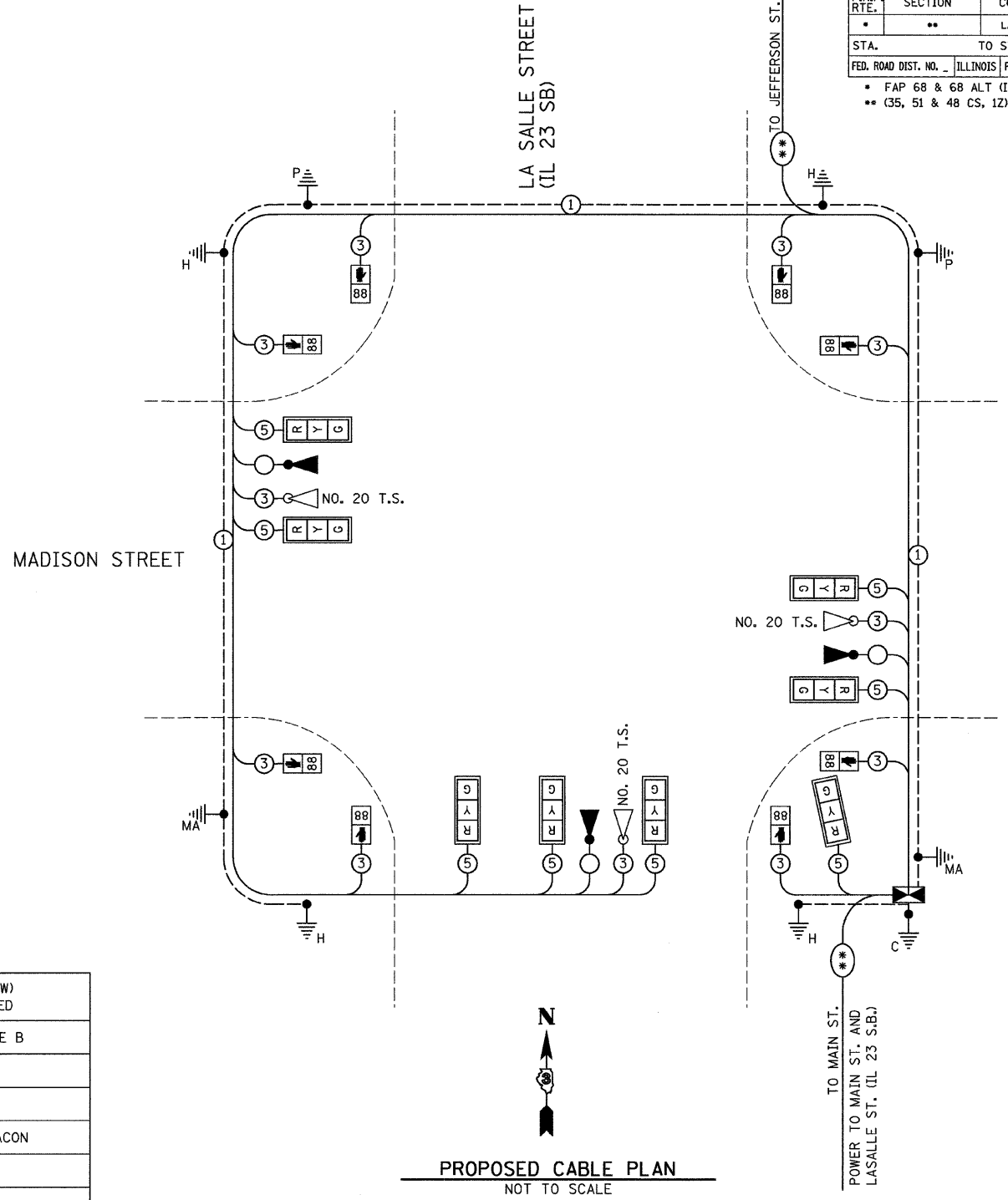
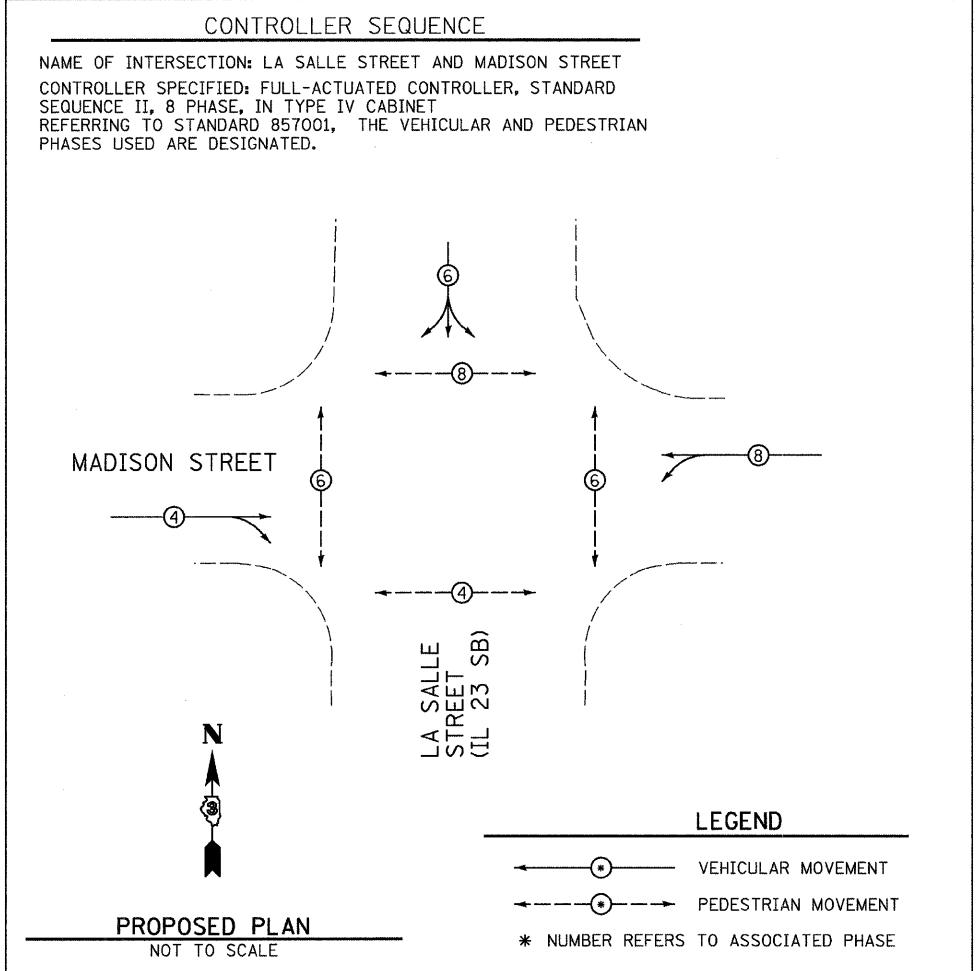
SCALE: VERT. 1" = 20'
 HORIZ. 1" = 20'

DATE 11/08

DRAWN BY ARR
 CHECKED BY JLS

PLOT DATE = 11/08
 FILE NAME = D086769-SHT-TS-LASA-MADISON
 USER = JLS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	**	LA SALLE	48	20
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
* FAP 68 & 68 ALT (IL 23 NB & SB) ** (35, 51 & 48 CS, 12)TS				



TRAFFIC SIGNALS LEGEND

	DETNOTES NUMBER OF CONDUCTORS (NEW) ALL CABLE NO. 14 EXCEPT AS INDICATED
	PROPOSED SERVICE INSTALLATION, TYPE B
	PROPOSED CONTROLLER AND CABINET
	EMERGENCY VEHICLE LIGHT DETECTOR
	EMERGENCY VEHICLE CONFIRMATION BEACON
	SIGNAL SECTION 12"
	PROPOSED INTERCONNECT CABLE
	PROPOSED WALK/DONT WALK COUNTDOWN SECTION
	TRAFFIC SIGNAL BACKPLATE
	GROUND CABLE IN CONDUIT, NO. 6 SOLID COPPER (GREEN)
	GROUND ROD AT POST (P) OR MAST ARM (MA) OR CONTROLLER (C) OR SERVICE INSTALLATION (S) OR HANDHOLE (H)

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
CABLE PLAN
 FAP 68 ALT (IL 23 SB)/LA SALLE ST
 AND MADISON STREET
 SECTION 35,51 & 48 CS, 12)TS
 LA SALLE COUNTY

SCALE: VERT. _____
 HORIZ. _____
 DATE 11/08

DRAWN BY ARR
 CHECKED BY JLS

PLOT DATE = 11/08
 FILE NAME = D086769-SHT-CABLE-LASA-MADISON
 PLOT SCALE = 20"
 USER NAME = ARR

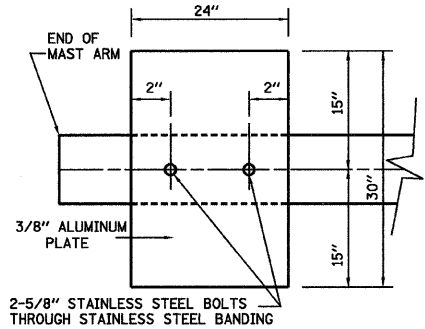
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	**	LA SALLE	48	21

STA. TO STA.
 FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT
 * FAP 68 & 68 ALT (IL 23 NB & SB)
 ** (35, 51 & 48 CS, 12)TS

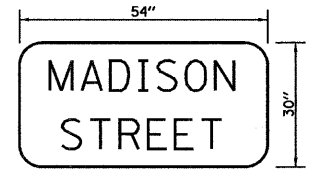
ELECTRICAL LOAD FOR INTERSECTION				
STREET NAME	COMPONENT	NUMBER	WATTAGE EACH	BURNTIME %
LA SALLE STREET (IL 23 SB)	RED	4	10	42
	YELLOW	4	19	5
	GREEN	4	14	53
		4	7	100
		4	5	53
MADISON STREET	RED	4	10	68
	YELLOW	4	19	5
	GREEN	4	14	27
		4	7	100
		4	5	27
TRAFFIC SIGNAL CABINET	CONTROLLER	1	6	100
	UPS	1	50	100
	EMERGENCY VEHICLE PREEMPT	3	--	--

AGENCY RESPONSIBLE FOR TRAFFIC SIGNAL ENERGY CHARGES:
CITY OF OTTAWA

NOTE:
 DAMPENING DEVICE SHALL CONSIST OF A 24" X 30" TYPE 1, UNPAINTED ALUMINUM SIGN STOCK MOUNTED HORIZONTALLY ON TOP OF MAST ARM WITH THE 30" LENGTH PERPENDICULAR TO THE ARM. COST OF THE DAMPENING DEVICE IS INCLUDED IN THE MAST ARM PAY ITEM.

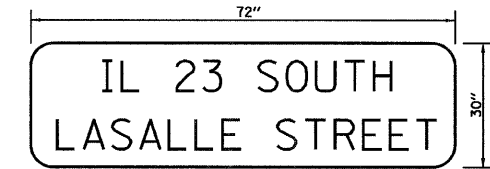


NOTE:
 MOUNT DAMPENING PLATE TO END OF EACH TRAFFIC SIGNAL MAST ARM.
DAMPENING PLATE DETAIL - TOP VIEW



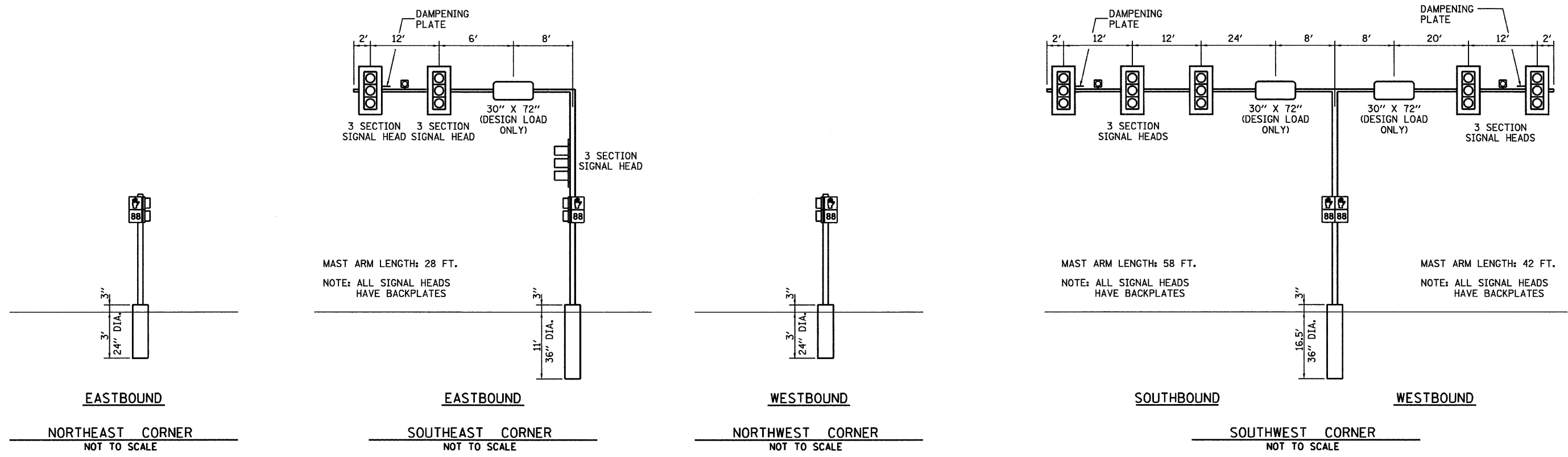
TYPE ZZ SHEETING REQUIRED
 8" D SERIES LETTERS
 1 SIGNS REQUIRED = 11.25 SQ. FT. EACH
 = 11.25 SQ. FT. TOTAL

THIS STREET NAME SIGN SHALL BE PLACED ON THE MAST ARMS PARALLEL WITH MADISON STREET



TYPE ZZ SHEETING REQUIRED
 8" D SERIES LETTERS (STATE ROUTE LETTERING)
 6" D SERIES LETTERS (CITY STREET LETTERING)
 2 SIGNS REQUIRED = 15 SQ. FT. EACH
 = 30 SQ. FT. TOTAL

THIS STREET NAME SIGN SHALL BE PLACED ON THE MAST ARMS PARALLEL WITH LA SALLE STREET



LA SALLE STREET (IL 23 SB) / MADISON STREET

MAST ARM AND POLE SHALL BE DESIGNED FOR THE WORST CASE LOADING CONDITION WHEREBY ALL THE SIGNAL HEADS ARE LOCATED 2 FEET FURTHER OUT THAN POSITION SHOWN. HOWEVER THE INTENT IS THAT ALL SIGNAL HEADS BE CENTERED ABOVE THE LANES.

REVISIONS	
NAME	DATE

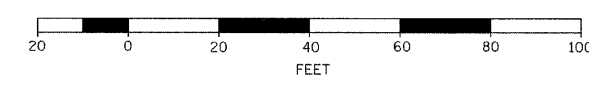
ILLINOIS DEPARTMENT OF TRANSPORTATION
 TRAFFIC SIGNAL DETAILS
 FAP 68 ALT (IL 23 SB)/LA SALLE ST
 AND MADISON STREET
 SECTION 35.51 & 48 CS, 12)TS
 LA SALLE COUNTY

SCALE: VERT. HORIZ.
 DATE 11/08
 DRAWN BY ARR
 CHECKED BY JLS

PLOT DATE = 11/08
 FILE NAME = D986769-SHT-DETAILS-LAS-MAD1.dgn
 USER = ARR
 USER NAME = ARR

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	**	LA SALLE	48	22
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
* FAP 68 & 68 ALT (IL 23 NB & SB) ** (35, 51 & 48 CS, 12)TS				

GRAPHIC SCALE

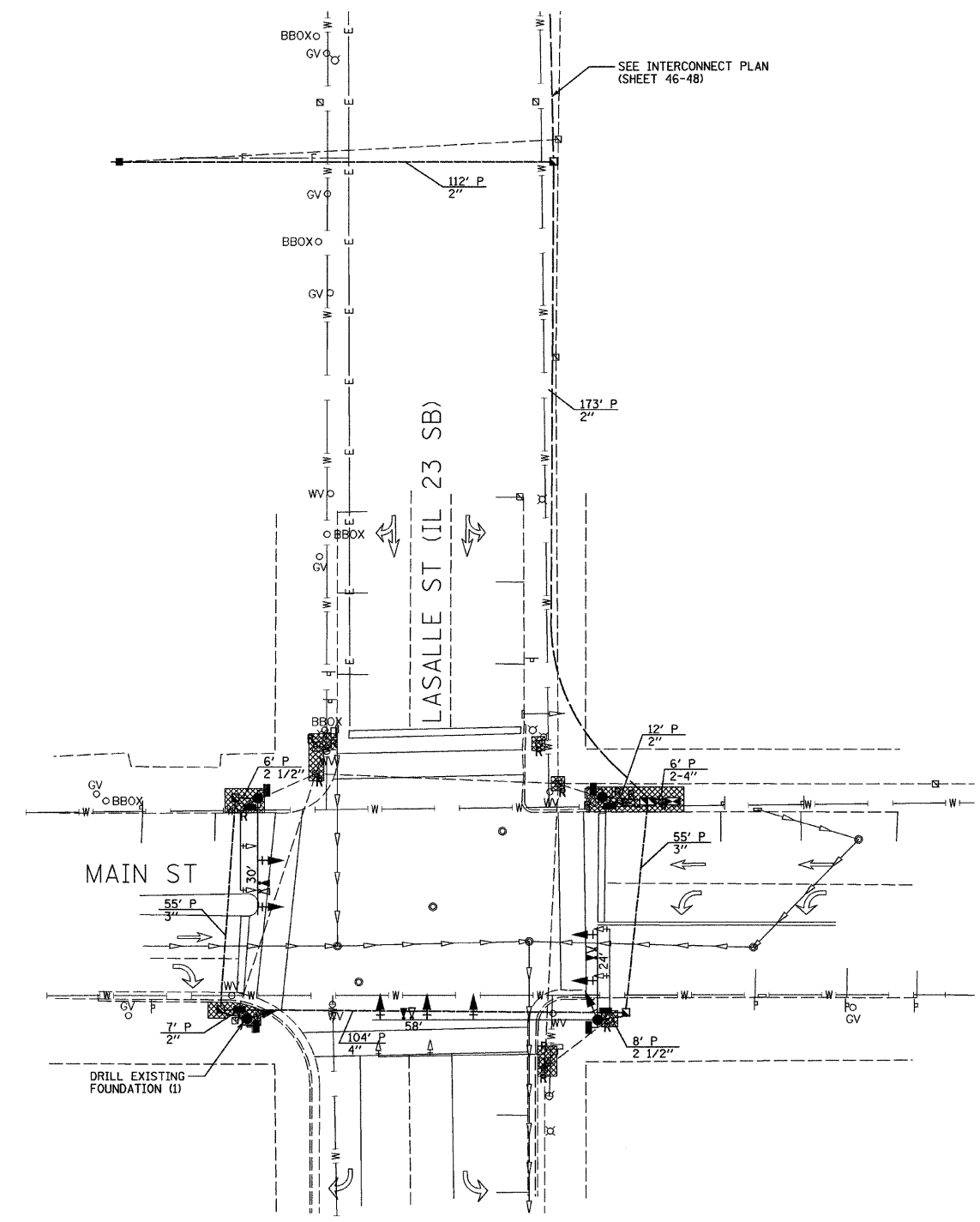


CONSTRUCTION NOTES:

- REMOVE AND REPLACE CONTROLLER AND CABINET ON NEW FOUNDATION.
- INSTALL UNINTERRUPTABLE POWER SUPPLY.
- REMOVE EXISTING MAST ARMS AND POLES ON SOUTHEAST CORNER AND REPLACE WITH DUAL MAST ARM AND POLE ON NEW FOUNDATION AS SHOWN.
- REMOVE EXISTING MAST ARM AND POLE ON NORTHWEST CORNER AND REPLACE WITH MAST ARM AND POLE ON NEW FOUNDATION AS SHOWN.
- REMOVE AND REPLACE TRAFFIC SIGNAL POST ON NORTHEAST CORNER ON NEW FOUNDATION AS SHOWN.
- REMOVE AND REPLACE TRAFFIC SIGNAL POST ON SOUTHWEST CORNER ON EXISTING FOUNDATION AS SHOWN. CONTRACTOR SHALL MEASURE AND PROVIDE BOLT PATTERN DETAILS TO POST SUPPLIER PRIOR TO FABRICATION TO ENSURE COMPATIBILITY.
- NEW HANDHOLES SHALL BE UTILIZED AS SHOWN.
- ALL EXISTING SIGNAL CABLE IN CONDUIT SHALL BE REMOVED.
- EXISTING FOUNDATIONS SHALL BE REMOVED AS SHOWN.
- REMOVAL OF THE FOLLOWING ITEMS SHALL BE PAID FOR AS REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT:
 - 1 EACH - CONTROLLER AND CABINET W/ ALL CONTENTS
 - 3 EACH - TRAFFIC SIGNAL POST
 - 3 EACH - MAST ARM AND POLE
 - 5 EACH - SIGNAL HEAD, 1-FACE, 3-SECTION, MAST ARM MOUNTED
 - 1 EACH - SIGNAL HEAD, 1-FACE, 4-SECTION, BRACKET MOUNTED
 - 1 EACH - SIGNAL HEAD, 1-FACE, 4-SECTION, MAST ARM MOUNTED
 - 8 EACH - PEDESTRIAN SIGNAL HEAD, 1-FACE, BRACKET MOUNTED

SCHEDULE OF QUANTITIES

ITEM NO.	DESCRIPTION	UNIT	TOTAL QUANTITY
42400100	PORTLAND CEMENT CONCRETE SIDEWALK, 4 INCH	SQ FT	382.9
44000600	SIDEWALK REMOVAL	SQ FT	405
50200400	ROCK EXCAVATION FOR STRUCTURES	CU YD	1.3
72000100	SIGN PANEL - TYPE 1	SQ FT	45
81021330	CONDUIT PUSHED, 2" DIA., PVC	FOOT	19
81021340	CONDUIT PUSHED, 2 1/2" DIA., PVC	FOOT	14
81021350	CONDUIT PUSHED, 3" DIA., PVC	FOOT	110
81021370	CONDUIT PUSHED, 4" DIA., PVC	FOOT	116
81400700	HANDHOLE, PORTLAND CEMENT CONCRETE	EACH	3
81400720	DOUBLE HANDHOLE, PORTLAND CEMENT CONCRETE	EACH	1
85000200	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
85700205	FULL-ACTUATED CONTROLLER AND TYPE IV CABINET, SPECIAL	EACH	1
86200300	UNINTERRUPTABLE POWER SUPPLY, EXTENDED	EACH	1
86400100	TRANSCEIVER-FIBER OPTIC	EACH	1
87301225	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	1304
87301245	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	1225.5
87301255	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	538.5
87301805	ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2C	FOOT	316.5
87502270	TRAFFIC SIGNAL POST, PAINTED STEEL 12 FT.	EACH	1
87502310	TRAFFIC SIGNAL POST, PAINTED STEEL 16 FT.	EACH	1
87700190	STEEL MAST ARM AND ASSEMBLY AND POLE, 30 FT.	EACH	1
87800100	CONCRETE FOUNDATION, TYPE A	FOOT	3
87800150	CONCRETE FOUNDATION, TYPE C	FOOT	3.5
87800415	CONCRETE FOUNDATION, TYPE E, 36 INCH DIAMETER	FOOT	30
87900100	DRILL EXISTING FOUNDATION	EACH	1
88040070	SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	1
88040090	SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED	EACH	6
88040150	SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	1
88040160	SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED	EACH	1
88200410	TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC	EACH	9
88700200	LIGHT DETECTOR	EACH	3
88700300	LIGHT DETECTOR AMPLIFIER	EACH	1
89502300	REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	2101
89502375	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
89502380	REMOVE EXISTING HANDHOLE	EACH	7
89502385	REMOVE EXISTING CONCRETE FOUNDATION	EACH	6
X8730027	ELECTRIC CABLE IN CONDUIT, GROUNDING, NO. 6 1C	FOOT	300.5
X8730250	ELECTRIC CABLE IN CONDUIT, COMMUNICATION, NO. 20 3/C, TWISTED, SHIELDED	FOOT	619.5
XX002852	RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM	EACH	1
XX006533	PEDESTRIAN SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, BRACKET MOUNTED, COUNTDOWN TIMER	EACH	8
*3002035	STEEL MAST ARM AND ASSEMBLY AND POLE WITH DUAL MAST ARMS, 24 FT. AND 58 FT.	EACH	1



TRAFFIC SIGNALS LEGEND

EXISTING	PROPOSED	DESCRIPTION
		CONTROLLER CABINET
		SERVICE INSTALLATION
		CONDUIT
		SIGNAL HEAD WITH BACKPLATE
		STEEL MAST ARM
		TRAFFIC SIGNAL POST
		HANDHOLE
		DOUBLE HANDHOLE
		PEDESTRIAN SIGNAL HEAD
		LIGHT DETECTOR
		CONFIRMATION BEACON

LEGEND

	SIDEWALK REMOVAL AND REPLACEMENT
--	----------------------------------

REVISIONS

NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 TRAFFIC SIGNAL PLAN
 FAP 68 ALT (IL 23 SB)/LA SALLE ST
 AND MAIN STREET
 SECTION 35,51 & 48 CS, 12)TS
 LA SALLE COUNTY

SCALE: VERT. 1" = 20'
 HORIZ. 1" = 20'
 DATE 11/08

DRAWN BY ARR
 CHECKED BY JLS

PLOT DATE = 11/08
 FILE NAME = D866769-SHT-TS-LAS-S-MAIN.DGN
 USER = ARR
 PLOT SCALE = 1" = 20'

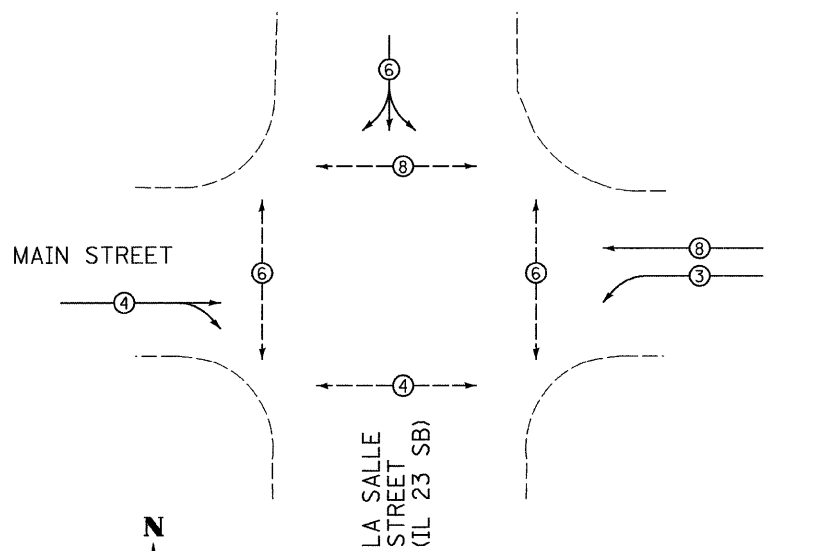
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	**	LA SALLE	48	23

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

- * FAP 68 & 68 ALT (IL 23 NB & SB)
- ** (35, 51 & 48 CS, 12)TS

CONTROLLER SEQUENCE

NAME OF INTERSECTION: LA SALLE STREET AND MAIN STREET
 CONTROLLER SPECIFIED: FULL-ACTUATED CONTROLLER, STANDARD SEQUENCE II, 8 PHASE, IN TYPE IV CABINET
 REFERRING TO STANDARD 857001, THE VEHICULAR AND PEDESTRIAN PHASES USED ARE DESIGNATED.



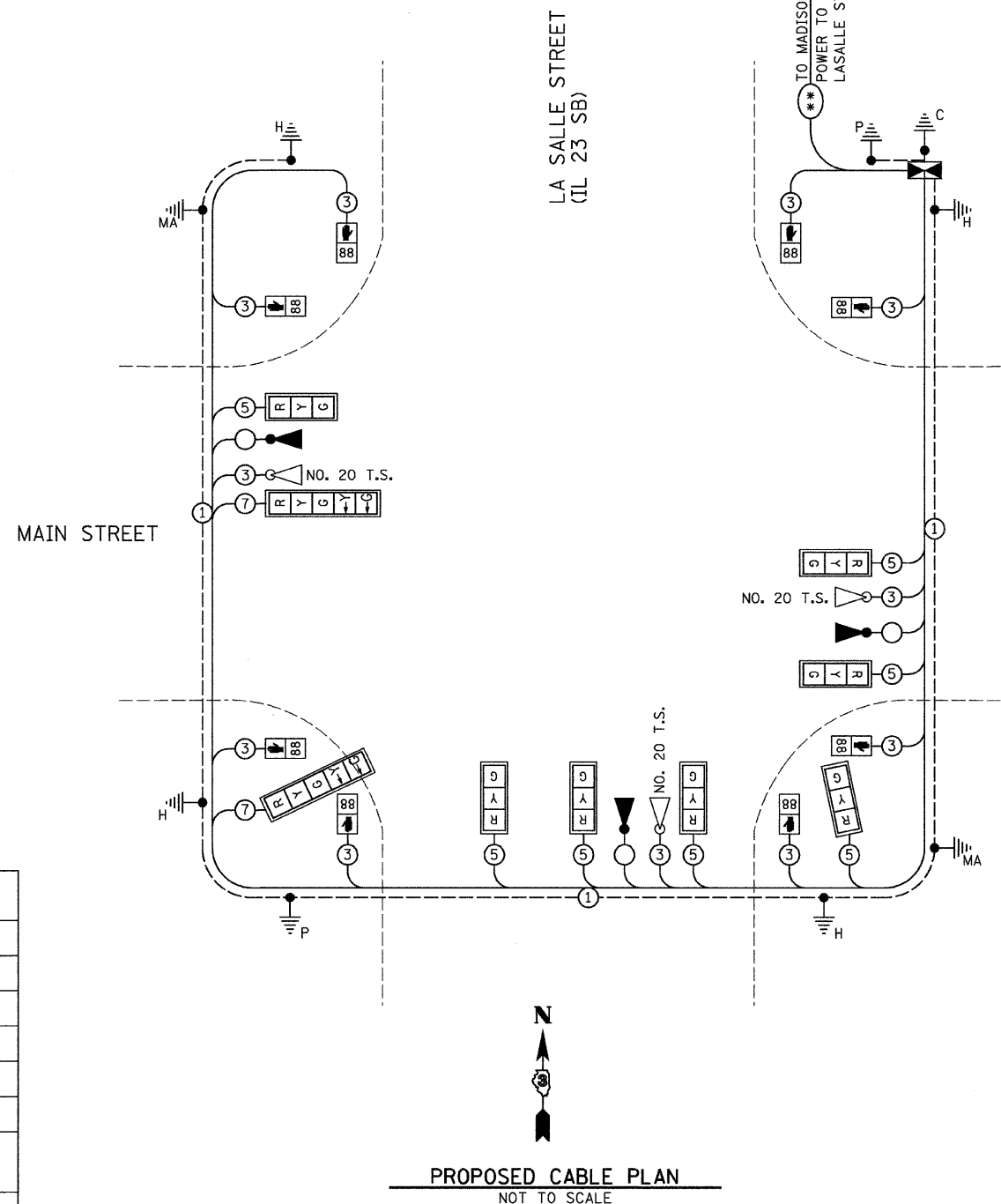
PROPOSED PLAN
NOT TO SCALE

LEGEND

- ← ● → VEHICULAR MOVEMENT
- ← ● → PEDESTRIAN MOVEMENT
- * NUMBER REFERS TO ASSOCIATED PHASE

TRAFFIC SIGNALS LEGEND

⊙	DETNOTES NUMBER OF CONDUCTORS (NEW) ALL CABLE NO. 14 EXCEPT AS INDICATED
■	PROPOSED SERVICE INSTALLATION, TYPE B
⊠	PROPOSED CONTROLLER AND CABINET
◁	EMERGENCY VEHICLE LIGHT DETECTOR
▲	EMERGENCY VEHICLE CONFIRMATION BEACON
□	SIGNAL SECTION 12"
⊠*	PROPOSED INTERCONNECT CABLE
⊠	PROPOSED WALK/DONT WALK COUNTDOWN SECTION
⊠	TRAFFIC SIGNAL BACKPLATE
—①—	GROUND CABLE IN CONDUIT, NO. 6 SOLID COPPER (GREEN)
⊠	GROUND ROD AT POST (P) OR MAST ARM (MA) OR CONTROLLER (C) OR SERVICE INSTALLATION (S) OR HANDHOLE (H)



PROPOSED CABLE PLAN
NOT TO SCALE

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
CABLE PLAN
 FAP 68 ALT (IL 23 SB)/LA SALLE ST
 AND MAIN STREET
 SECTION 35,51 & 48 CS, 12)TS
 LA SALLE COUNTY

SCALE: VERT. _____
 HORIZ. _____
 DATE 11/08
 DRAWN BY ARR
 CHECKED BY JLS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	**	LA SALLE	48	24

STA. TO STA.

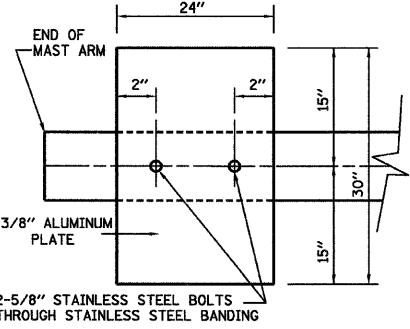
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT

* FAP 68 & 68 ALT (IL 23 NB & SB)
** (35, 51 & 48 CS, 12)TS

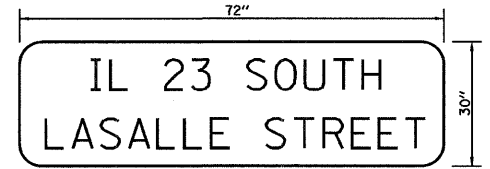
ELECTRICAL LOAD FOR INTERSECTION				
STREET NAME	COMPONENT	NUMBER	WATTAGE EACH	BURNTIME %
LA SALLE STREET (IL 23 SB)	RED	4	10	42
	YELLOW	4	19	5
	GREEN	4	14	53
		4	7	100
		4	5	53
MAIN STREET	RED	5	10	68
	YELLOW	5	19	5
	GREEN	5	14	27
	LT. YELLOW ARROW	2	9	21
	LT. GREEN ARROW	2	3.4	5
		4	7	100
TRAFFIC SIGNAL CABINET		4	5	22
	CONTROLLER	1	6	100
	UPS	1	50	100
	EMERGENCY VEHICLE PREEMPT	3	--	--

AGENCY RESPONSIBLE FOR TRAFFIC SIGNAL ENERGY CHARGES:
CITY OF OTTAWA

NOTE:
DAMPENING DEVICE SHALL CONSIST OF A 24" X 30" TYPE 1, UNPAINTED ALUMINUM SIGN STOCK MOUNTED HORIZONTALLY ON TOP OF MAST ARM WITH THE 30" LENGTH PERPENDICULAR TO THE ARM. COST OF THE DAMPENING DEVICE IS INCLUDED IN THE MAST ARM PAY ITEM.

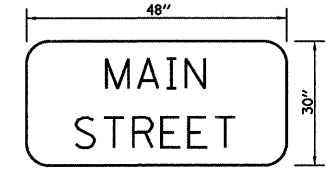


NOTE:
MOUNT DAMPENING PLATE TO END OF EACH TRAFFIC SIGNAL MAST ARM.
DAMPENING PLATE DETAIL - TOP VIEW



TYPE ZZ SHEETING REQUIRED
8" D SERIES LETTERS (STATE ROUTE LETTERING)
6" D SERIES LETTERS (CITY STREET LETTERING)
2 SIGNS REQUIRED = 15 SQ. FT. EACH
= 30 SQ. FT. TOTAL

THIS STREET NAME SIGN SHALL BE PLACED ON THE MAST ARMS PARALLEL WITH LA SALLE STREET



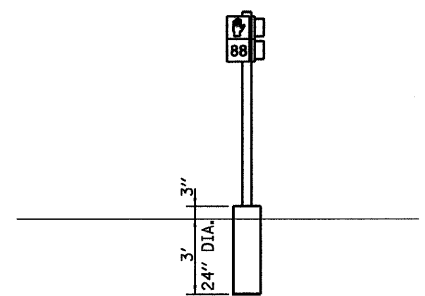
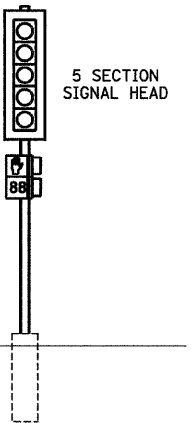
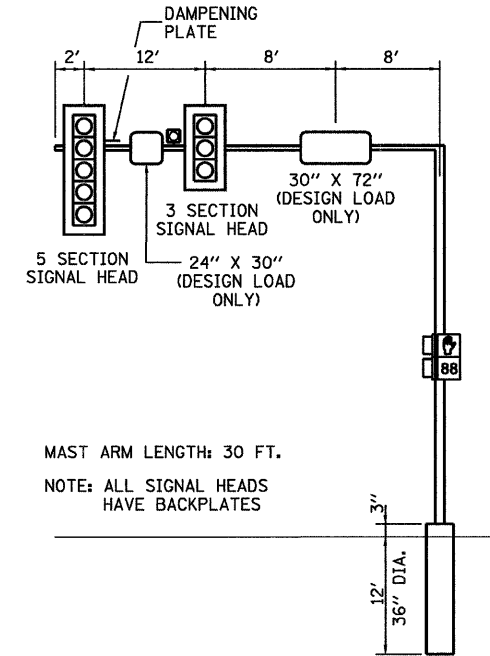
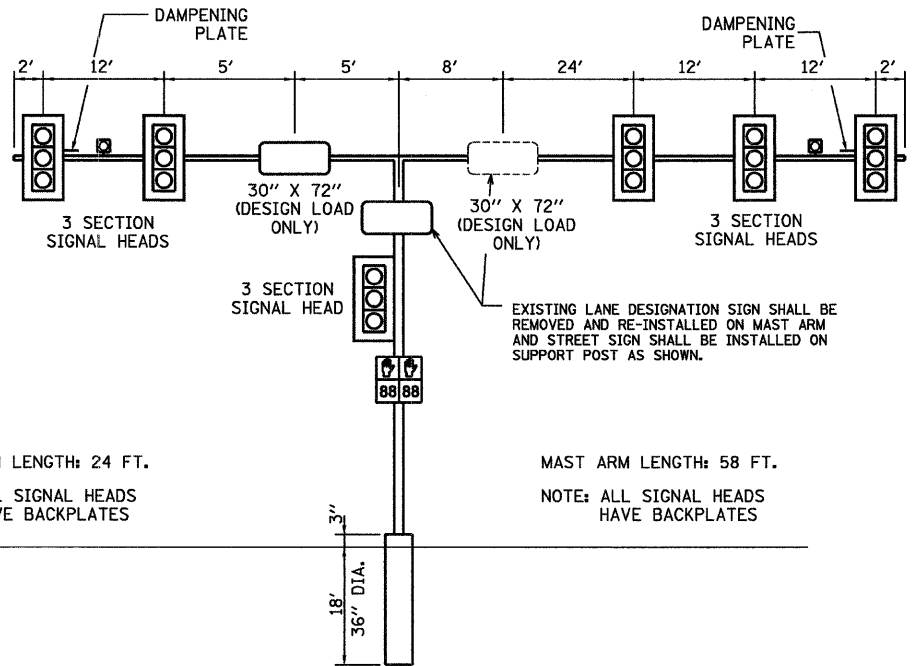
TYPE ZZ SHEETING REQUIRED
8" D SERIES LETTERS
1 SIGNS REQUIRED = 10 SQ. FT. EACH
= 10 SQ. FT. TOTAL

THIS STREET NAME SIGN SHALL BE PLACED ON THE MAST ARM SUPPORT POST PARALLEL WITH MAIN STREET



R10 - 12
24" X 30"

TYPE A SHEETING REQUIRED
1 SIGN REQUIRED = 5 SQ.FT. EACH
= 5 SQ.FT. TOTAL
THIS SIGN SHALL BE LOCATED 6" TO 12" TO THE RIGHT OF THE 5 SECTION SIGN TRUSS MOUNTED LEFT TURN SIGNAL (ANY ADDITIONAL HARDWARE REQUIRED FOR THIS INSTALLATION SHALL BE INCLUDED WITH COST OF SIGN).



EASTBOUND

NORTHEAST CORNER
NOT TO SCALE

MAST ARM LENGTH: 24 FT.
NOTE: ALL SIGNAL HEADS HAVE BACKPLATES

SOUTHBOUND

SOUTHEAST CORNER
NOT TO SCALE

MAST ARM LENGTH: 58 FT.
NOTE: ALL SIGNAL HEADS HAVE BACKPLATES

EASTBOUND

MAST ARM LENGTH: 30 FT.
NOTE: ALL SIGNAL HEADS HAVE BACKPLATES

WESTBOUND

NORTHWEST CORNER
NOT TO SCALE

WESTBOUND

SOUTHWEST CORNER
NOT TO SCALE

LA SALLE STREET (IL 23 SB) / MAIN STREET

MAST ARM AND POLE SHALL BE DESIGNED FOR THE WORST CASE LOADING CONDITION WHEREBY ALL THE SIGNAL HEADS ARE LOCATED 2 FEET FURTHER OUT THAN POSITION SHOWN. HOWEVER THE INTENT IS THAT ALL SIGNAL HEADS BE CENTERED ABOVE THE LANES.

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
TRAFFIC SIGNAL DETAILS
FAP 68 ALT (IL 23 SB)/LA SALLE ST AND MAIN STREET
SECTION 35.51 & 48 CS, 12)TS
LA SALLE COUNTY

SCALE: VERT. DATE 11/08
HORIZ. DRAWN BY ARR
CHECKED BY JLS

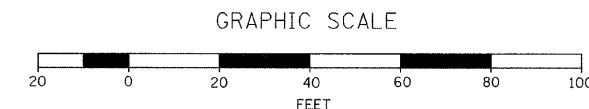
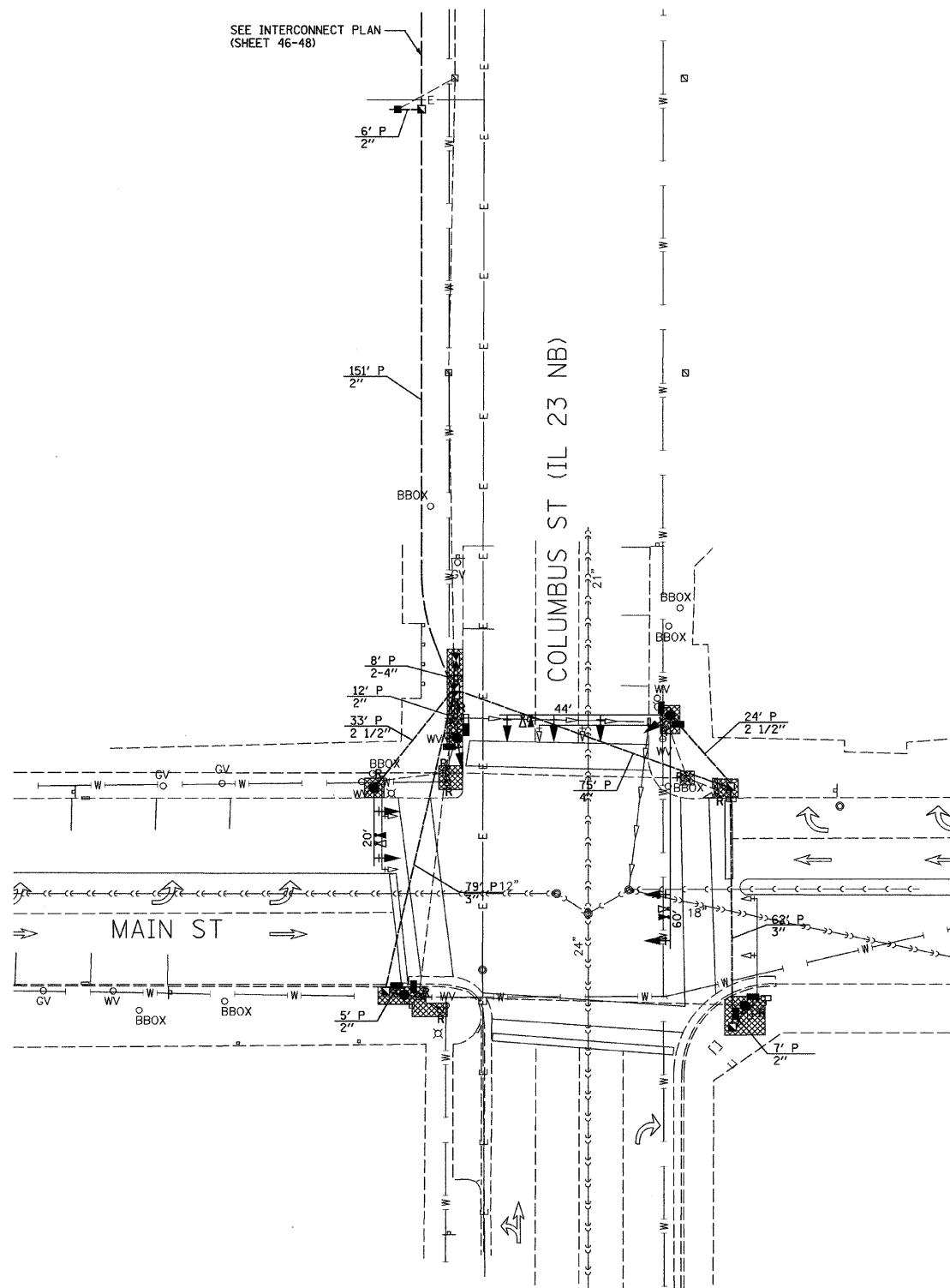
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	**	LA SALLE	48	25
STA.		TO STA.		
FED. ROAD DIST. NO. _		ILLINOIS FED. AID PROJECT		
* FAP 68 & 68 ALT (IL 23 NB & SB) ** (35, 51 & 48 CS, 12)TS				

CONSTRUCTION NOTES:

- REMOVE AND REPLACE CONTROLLER AND CABINET ON NEW FOUNDATION.
- INSTALL UNINTERRUPTABLE POWER SUPPLY.
- REMOVE EXISTING TRAFFIC SIGNAL POST AND MAST ARM AND POLE ON NORTHEAST CORNER AND REPLACE WITH DUAL MAST ARM AND POLE ON NEW FOUNDATION AS SHOWN.
- REMOVE EXISTING TRAFFIC SIGNAL POST AND MAST ARM AND POLE ON NORTHWEST CORNER AND REPLACE WITH MAST ARM AND POLE AND TRAFFIC SIGNAL POST ON NEW FOUNDATIONS AS SHOWN.
- REMOVE AND REPLACE TRAFFIC SIGNAL POST ON SOUTHWEST CORNER ON EXISTING FOUNDATION AS SHOWN.
- NEW HANDHOLES SHALL BE UTILIZED AS SHOWN.
- ALL EXISTING SIGNAL CABLE IN CONDUIT SHALL BE REMOVED.
- EXISTING FOUNDATIONS SHALL BE REMOVED AS SHOWN.
- REMOVAL OF THE FOLLOWING ITEMS SHALL BE PAID FOR AS REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT:
 - 1 EACH - CONTROLLER AND CABINET W/ ALL CONTENTS
 - 3 EACH - TRAFFIC SIGNAL POST
 - 1 EACH - MAST ARM AND POLE
 - 5 EACH - SIGNAL HEAD, 1-FACE, 3-SECTION, MAST ARM MOUNTED
 - 1 EACH - SIGNAL HEAD, 1-FACE, 4-SECTION, BRACKET MOUNTED
 - 1 EACH - SIGNAL HEAD, 1-FACE, 4-SECTION, MAST ARM MOUNTED
 - 8 EACH - PEDESTRIAN SIGNAL HEAD, 1-FACE, BRACKET MOUNTED

SCHEDULE OF QUANTITIES

ITEM NO.	DESCRIPTION	UNIT	TOTAL QUANTITY
42400100	PORTLAND CEMENT SIDEWALK, 4 INCH	SQ FT	378
44000600	SIDEWALK REMOVAL	SQ FT	420.6
50200400	ROCK EXCAVATION FOR STRUCTURES	CU YD	2.7
72000100	SIGN PANEL - TYPE 1	SQ FT	45
81021330	CONDUIT PUSHED, 2" DIA., PVC	FOOT	24
81021340	CONDUIT PUSHED, 2 1/2" DIA., PVC	FOOT	57
81021350	CONDUIT PUSHED, 3" DIA., PVC	FOOT	141
81021370	CONDUIT PUSHED, 4" DIA., PVC	FOOT	91
81400700	HANDHOLE, PORTLAND CEMENT CONCRETE	EACH	3
81400720	DOUBLE HANDHOLE, PORTLAND CEMENT CONCRETE	EACH	1
85000200	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
85700205	FULL-ACTUATED CONTROLLER AND TYPE IV CABINET, SPECIAL	EACH	1
86200300	UNINTERRUPTABLE POWER SUPPLY, EXTENDED	EACH	1
86400100	TRANSCEIVER-FIBER OPTIC	EACH	1
87301225	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	1050
87301245	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	1033
87301255	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	353
87301805	ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2C	FOOT	190.5
87502270	TRAFFIC SIGNAL POST, PAINTED STEEL 12 FT.	EACH	2
87502310	TRAFFIC SIGNAL POST, PAINTED STEEL 16 FT.	EACH	1
87700140	STEEL MAST ARM AND ASSEMBLY AND POLE, 20 FT.	EACH	1
87800100	CONCRETE FOUNDATION, TYPE A	FOOT	9
87800150	CONCRETE FOUNDATION, TYPE C	FOOT	3.5
87800415	CONCRETE FOUNDATION, TYPE E, 36 INCH DIAMETER	FOOT	29
88040070	SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	1
88040090	SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED	EACH	6
88040150	SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	1
88040160	SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED	EACH	1
88200410	TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC	EACH	9
88700200	LIGHT DETECTOR	EACH	3
88700300	LIGHT DETECTOR AMPLIFIER	EACH	1
89502300	REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	1842
89502375	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
89502380	REMOVE EXISTING HANDHOLE	EACH	5
89502385	REMOVE EXISTING CONCRETE FOUNDATION	EACH	7
X8730027	ELECTRIC CABLE IN CONDUIT, GROUNDING, NO. 6 1C	FOOT	355.5
X8730250	ELECTRIC CABLE IN CONDUIT, COMMUNICATION, NO. 20 3/C, TWISTED, SHIELDED	FOOT	503
XX002852	RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM	EACH	1
XX006533	PEDESTRIAN SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, BRACKET MOUNTED, COUNTDOWN TIMER	EACH	8
*3002043	STEEL MAST ARM AND ASSEMBLY AND POLE WITH DUAL MAST ARMS, 44 FT. AND 60 FT.	EACH	1



TRAFFIC SIGNALS LEGEND

EXISTING	PROPOSED	DESCRIPTION
⊠	⊠	CONTROLLER CABINET
⊕	⊕	SERVICE INSTALLATION
- - -	- - -	CONDUIT
⊕	⊕	SIGNAL HEAD WITH BACKPLATE
○	●	STEEL MAST ARM
○	●	TRAFFIC SIGNAL POST
⊠	⊠	HANDHOLE
⊠	⊠	DOUBLE HANDHOLE
⊠	⊠	PEDESTRIAN SIGNAL HEAD
⊠	⊠	LIGHT DETECTOR
⊠	⊠	CONFIRMATION BEACON

LEGEND

⊠	SIDEWALK REMOVAL AND REPLACEMENT
---	----------------------------------

REVISIONS

NAME	DATE

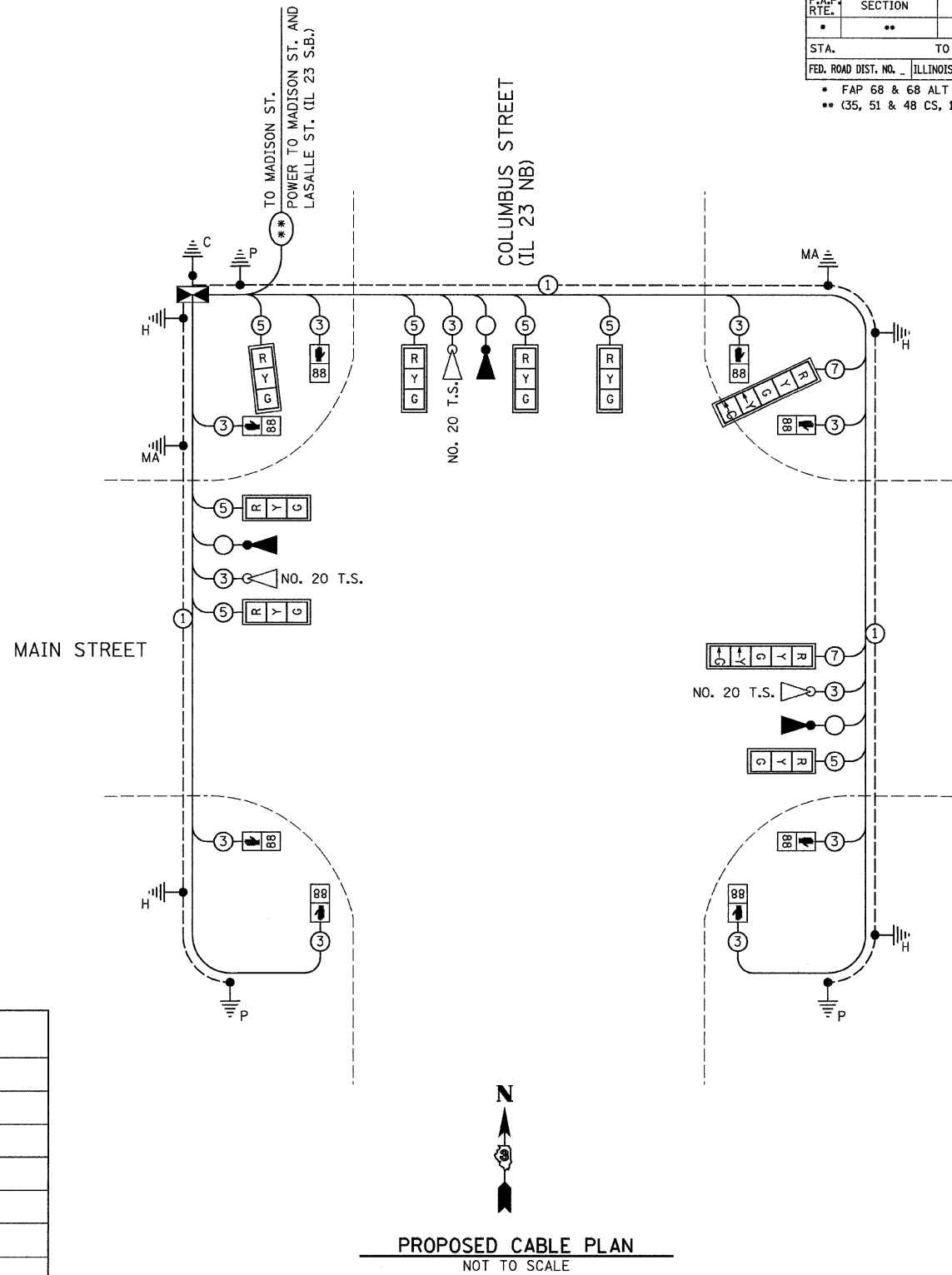
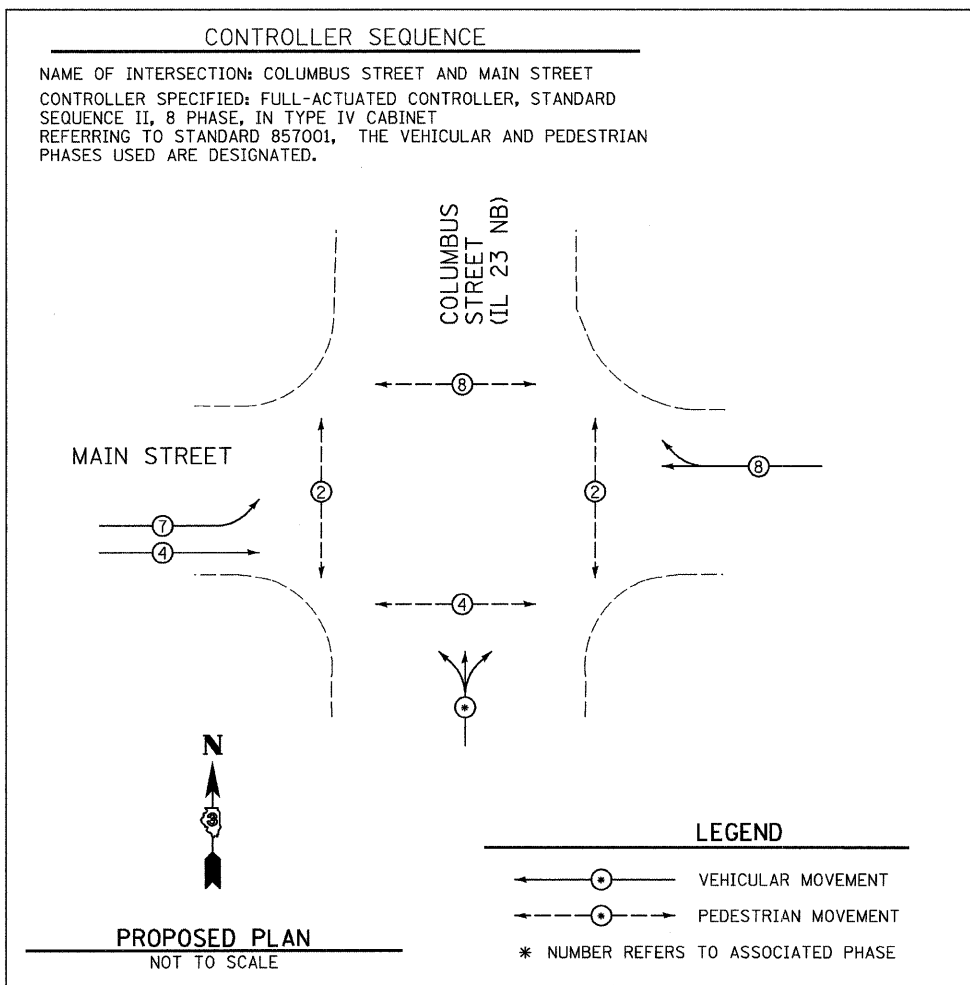
ILLINOIS DEPARTMENT OF TRANSPORTATION
 TRAFFIC SIGNAL PLAN
 FAP 68 (IL 23 NB)/COLUMBUS ST
 AND MAIN STREET
 SECTION 35,51 & 48 CS, 12)TS
 LA SALLE COUNTY

SCALE: VERT. 1" = 20'
 HORIZ. 1" = 20'
 DATE 11/08

DRAWN BY ARR
 CHECKED BY JLS

PLOT DATE = 11/08
 FILE NAME = D066769-SHT-TS-COLI-MAINDEN
 PLOT SCALE = 1" = 20'
 USER NAME = ARR

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	**	LA SALLE	48	26
STA.		TO STA.		
FED. ROAD DIST. NO. - ILLINOIS FED. AID PROJECT				
* FAP 68 & 68 ALT (IL 23 NB & SB)				
** (35, 51 & 48 CS, 12)TS				



TRAFFIC SIGNALS LEGEND

	DETNOTES NUMBER OF CONDUCTORS (NEW) ALL CABLE NO. 14 EXCEPT AS INDICATED
	PROPOSED SERVICE INSTALLATION, TYPE B
	PROPOSED CONTROLLER AND CABINET
	EMERGENCY VEHICLE LIGHT DETECTOR
	EMERGENCY VEHICLE CONFIRMATION BEACON
	SIGNAL SECTION 12"
	PROPOSED INTERCONNECT CABLE
	PROPOSED WALK/DONT WALK COUNTDOWN SECTION
	TRAFFIC SIGNAL BACKPLATE
	GROUND CABLE IN CONDUIT, NO. 6 SOLID COPPER (GREEN)
	GROUND ROD AT POST (P) OR MAST ARM (MA) OR CONTROLLER (C) OR SERVICE INSTALLATION (S) OR HANDHOLE (H)

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 CABLE PLAN
 FAP 68 (IL 23 NB)/COLUMBUS ST
 AND MAIN STREET
 SECTION 35,51 & 48 CS, 12)TS
 LA SALLE COUNTY

SCALE: VERT. _____
 HORIZ. _____
 DATE 11/08

DRAWN BY ARR
 CHECKED BY JLS

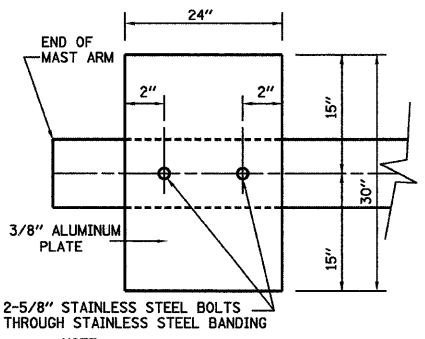
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 USER NAME = ARR

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
•	••	LA SALLE	48	27

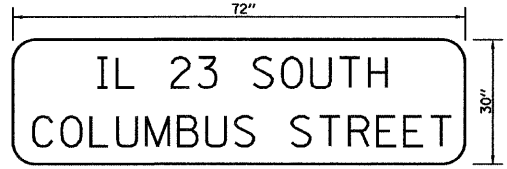
STA. _____ TO STA. _____
 FED. ROAD DIST. NO. _____ ILLINOIS FED. AID PROJECT
 • FAP 68 & 68 ALT (IL 23 NB & SB)
 •• (35, 51 & 48 CS, 12)TS

ELECTRICAL LOAD FOR INTERSECTION				
STREET NAME	COMPONENT	NUMBER	WATTAGE EACH	BURNTIME %
COLUMBUS STREET (IL 23 NB)	RED	4	10	42
	YELLOW	4	19	5
	GREEN	4	14	53
		4	7	100
		4	5	53
MAIN STREET	RED	5	10	68
	YELLOW	5	19	5
	GREEN	5	14	27
	LT. YELLOW ARROW	2	9	21
	LT. GREEN ARROW	2	3.4	5
		4	7	100
		4	5	22
TRAFFIC SIGNAL CABINET	CONTROLLER	1	6	100
	UPS	1	50	100
	EMERGENCY VEHICLE PREEMPT	3	--	--

NOTE:
 DAMPENING DEVICE SHALL CONSIST OF A 24" X 30" TYPE 1, UNPAINTED ALUMINUM SIGN STOCK MOUNTED HORIZONTALLY ON TOP OF MAST ARM WITH THE 30" LENGTH PERPENDICULAR TO THE ARM. COST OF THE DAMPENING DEVICE IS INCLUDED IN THE MAST ARM PAY ITEM.

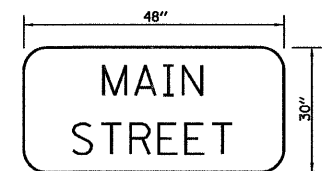


NOTE:
 MOUNT DAMPENING PLATE TO END OF EACH TRAFFIC SIGNAL MAST ARM.
DAMPENING PLATE DETAIL - TOP VIEW



TYPE ZZ SHEETING REQUIRED
 8" D SERIES LETTERS (STATE ROUTE LETTERING)
 6" D SERIES LETTERS (CITY STREET LETTERING)
 2 SIGNS REQUIRED = 15 SQ. FT. EACH
 = 30 SQ. FT. TOTAL

THIS STREET NAME SIGN SHALL BE PLACED ON THE MAST ARMS PARALLEL WITH COLUMBUS STREET



TYPE ZZ SHEETING REQUIRED
 8" D SERIES LETTERS
 1 SIGNS REQUIRED = 10 SQ. FT. EACH
 = 10 SQ. FT. TOTAL

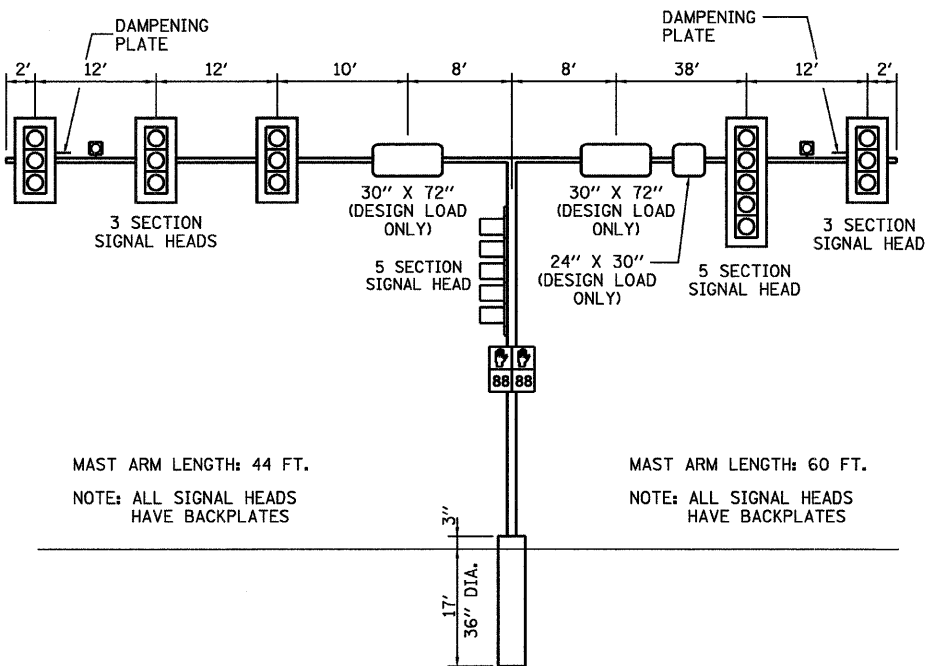
THIS STREET NAME SIGN SHALL BE PLACED ON THE MAST ARM SUPPORT POST PARALLEL WITH MAIN STREET



R10 - 12
 24" X 30"

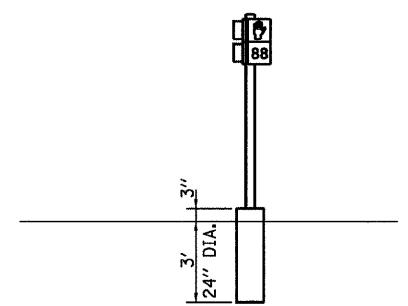
TYPE A SHEETING REQUIRED
 1 SIGN REQUIRED = 5 SQ.FT. EACH
 = 5 SQ.FT. TOTAL
 THIS SIGN SHALL BE LOCATED 6" TO 12" TO THE RIGHT OF THE 5 SECTION SIGN TRUSS MOUNTED LEFT TURN SIGNAL (ANY ADDITIONAL HARDWARE REQUIRED FOR THIS INSTALLATION SHALL BE INCLUDED WITH COST OF SIGN).

AGENCY RESPONSIBLE FOR TRAFFIC SIGNAL ENERGY CHARGES:
 CITY OF OTTAWA



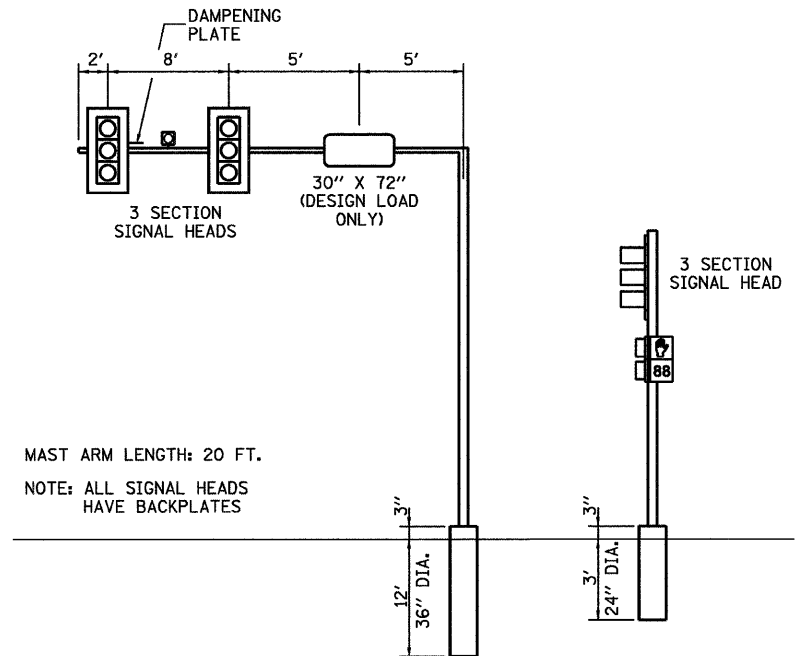
NORTHBOUND **EASTBOUND**

NORTHEAST CORNER
 NOT TO SCALE



EASTBOUND

SOUTHEAST CORNER
 NOT TO SCALE



WESTBOUND

NORTHWEST CORNER
 NOT TO SCALE

WESTBOUND

SOUTHWEST CORNER
 NOT TO SCALE

COLUMBUS STREET (IL 23 NB) / MAIN STREET

MAST ARM AND POLE SHALL BE DESIGNED FOR THE WORST CASE LOADING CONDITION WHEREBY ALL THE SIGNAL HEADS ARE LOCATED 2 FEET FURTHER OUT THAN POSITION SHOWN. HOWEVER THE INTENT IS THAT ALL SIGNAL HEADS BE CENTERED ABOVE THE LANES.

REVISIONS	
NAME	DATE

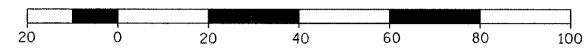
ILLINOIS DEPARTMENT OF TRANSPORTATION
 TRAFFIC SIGNAL DETAILS
 FAP 68 (IL 23 NB)/COLUMBUS ST
 AND MAIN STREET
 SECTION 35,51 & 48 CS, 12)TS
 LA SALLE COUNTY

SCALE: VERT. _____
 HORIZ. _____
 DATE 11/08
 DRAWN BY ARR
 CHECKED BY JLS

PLOT DATE = 11/08
 FILE NAME = D666769-SHT-DETAILS-COLU-MAIN.dgn
 PLOT SCALE = 1" = 20'
 USER NAME = ARR

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	**	LA SALLE	48	28
STA.		TO STA.		
FED. ROAD DIST. NO. 1		ILLINOIS FED. AID PROJECT		
* FAP 68 & 68 ALT (IL 23 NB & SB) ** (35, 51 & 48 CS, 12)TS				

GRAPHIC SCALE



FEET

N

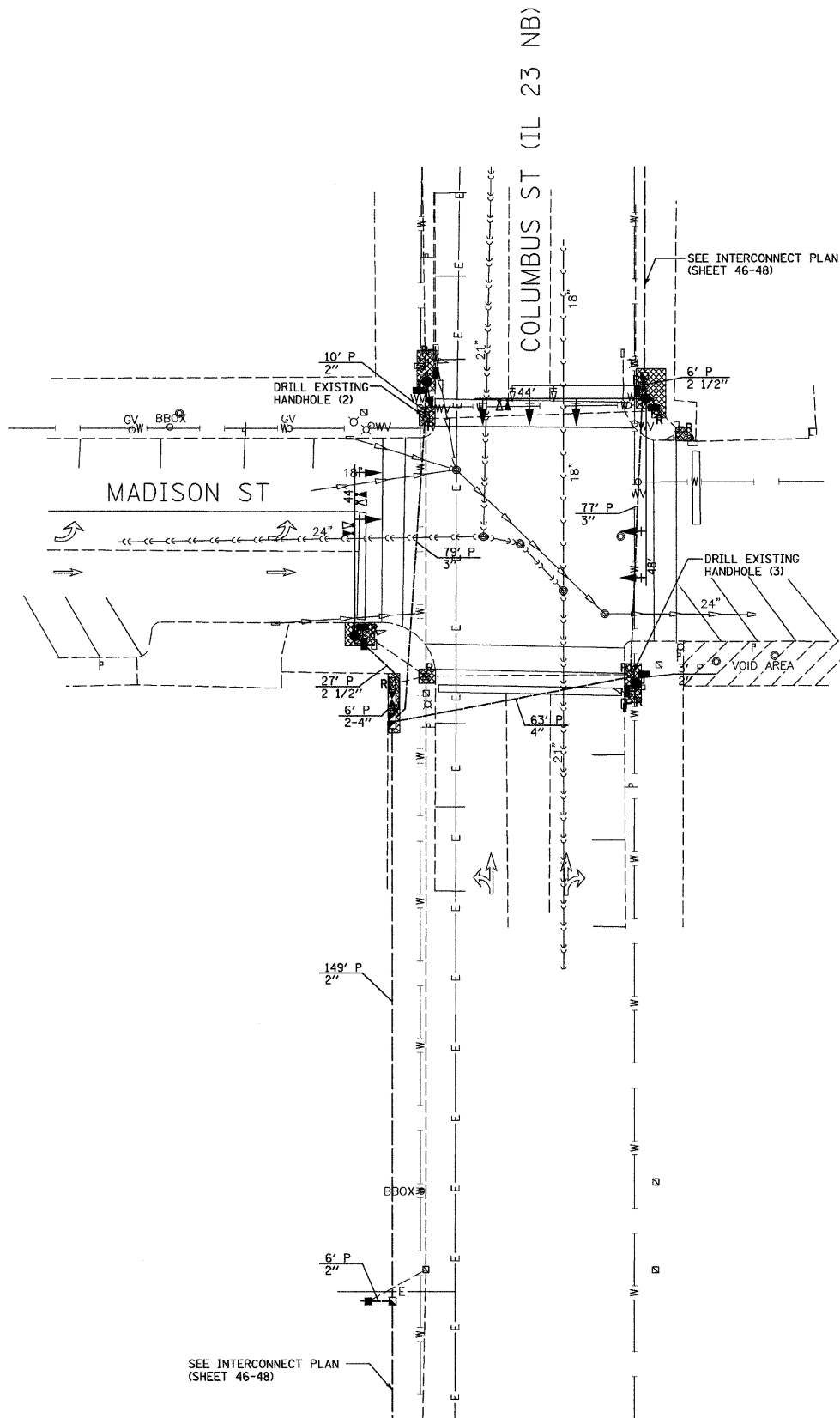


CONSTRUCTION NOTES:

- REMOVE AND REPLACE CONTROLLER AND CABINET ON EXISTING FOUNDATION.
- INSTALL UNINTERRUPTABLE POWER SUPPLY.
- REMOVE EXISTING TRAFFIC SIGNAL POST AND MAST ARM AND POLE ON NORTHEAST CORNER AND REPLACE WITH DUAL MAST ARM AND POLE ON NEW FOUNDATION AS SHOWN.
- REMOVE EXISTING TRAFFIC SIGNAL POST ON SOUTHWEST CORNER AND REPLACE WITH MAST ARM AND POLE ON NEW FOUNDATION AS SHOWN.
- REMOVE AND REPLACE TRAFFIC SIGNAL POSTS ON SOUTHEAST AND NORTHWEST CORNERS ON NEW FOUNDATIONS AS SHOWN.
- ADJUST THE HANDHOLE ON THE NORTHWEST CORNER WITH A NEW FRAME AND LID.
- NEW AND EXISTING HANDHOLES SHALL BE UTILIZED AS SHOWN.
- ALL EXISTING SIGNAL CABLE IN CONDUIT SHALL BE REMOVED.
- EXISTING FOUNDATIONS SHALL BE REMOVED AS SHOWN.
- REMOVAL OF THE FOLLOWING ITEMS SHALL BE PAID FOR AS REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT:
 - 1 EACH - CONTROLLER AND CABINET W/ ALL CONTENTS
 - 4 EACH - TRAFFIC SIGNAL POST
 - 1 EACH - MAST ARM AND POLE
 - 4 EACH - SIGNAL HEAD, 1-FACE, 3-SECTION, BRACKET MOUNTED
 - 2 EACH - SIGNAL HEAD, 1-FACE, 3-SECTION, MAST ARM MOUNTED
 - 8 EACH - PEDESTRIAN SIGNAL HEAD, 1-FACE, BRACKET MOUNTED

SCHEDULE OF QUANTITIES

ITEM NO.	DESCRIPTION	UNIT	TOTAL QUANTITY
42400100	PORTLAND CEMENT CONCRETE SIDEWALK, 4 INCH	SQ FT	267.1
44000600	SIDEWALK REMOVAL	SQ FT	301.3
50200400	ROCK EXCAVATION FOR STRUCTURES	CU YD	1.2
72000100	SIGN PANEL - TYPE 1	SQ FT	41.25
80500200	SERVICE INSTALLATION, TYPE B	EACH	1
81021330	CONDUIT PUSHED, 2" DIA., PVC	FOOT	13
81021340	CONDUIT PUSHED, 2 1/2" DIA., PVC	FOOT	33
81021350	CONDUIT PUSHED, 3" DIA., PVC	FOOT	156
81021370	CONDUIT PUSHED, 4" DIA., PVC	FOOT	75
81400700	HANDHOLE, PORTLAND CEMENT CONCRETE	EACH	2
81400720	DOUBLE HANDHOLE, PORTLAND CEMENT CONCRETE	EACH	1
85000200	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
85700205	FULL-ACTUATED CONTROLLER AND TYPE IV CABINET, SPECIAL	EACH	1
86200300	UNINTERRUPTABLE POWER SUPPLY, EXTENDED	EACH	1
86400100	TRANSCIEVER-FIBER OPTIC	EACH	1
87301225	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	1012
87301245	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	1584.5
87301805	ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2C	FOOT	186.5
87502270	TRAFFIC SIGNAL POST, PAINTED STEEL 12 FT.	EACH	1
87502310	TRAFFIC SIGNAL POST, PAINTED STEEL 16 FT.	EACH	1
87700260	STEEL MAST ARM AND ASSEMBLY AND POLE, 44 FT.	EACH	1
87800100	CONCRETE FOUNDATION, TYPE A	FOOT	6
87800150	CONCRETE FOUNDATION, TYPE C	FOOT	3.5
87800415	CONCRETE FOUNDATION, TYPE E, 36 INCH DIAMETER	FOOT	25.5
87900200	DRILL EXISTING HANDHOLE	EACH	5
88040070	SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	1
88040090	SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED	EACH	7
88200410	TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC	EACH	8
88700200	LIGHT DETECTOR	EACH	3
88700300	LIGHT DETECTOR AMPLIFIER	EACH	1
89502300	REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	1747
89502375	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
89502380	REMOVE EXISTING HANDHOLE	EACH	7
89502385	REMOVE EXISTING CONCRETE FOUNDATION	EACH	6
X8730027	ELECTRIC CABLE IN CONDUIT, GROUNDING, NO. 6 1C	FOOT	347
X8730250	ELECTRIC CABLE IN CONDUIT, COMMUNICATION, NO. 20 3/C, TWISTED, SHIELDED	FOOT	464
XX002852	RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM	EACH	1
XX006533	PEDESTRIAN SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, BRACKET MOUNTED, COUNTDOWN TIMER	EACH	8
XX006668	HANDHOLE TO BE ADJUSTED WITH NEW FRAME AND COVER	EACH	1
*3002042	STEEL MAST ARM AND ASSEMBLY AND POLE WITH DUAL MAST ARMS, 44 FT. AND 48 FT.	EACH	1



EXISTING	PROPOSED	DESCRIPTION
		CONTROLLER CABINET
		SERVICE INSTALLATION
		CONDUIT
		SIGNAL HEAD WITH BACKPLATE
		STEEL MAST ARM
		TRAFFIC SIGNAL POST
		HANDHOLE
		DOUBLE HANDHOLE
		PEDESTRIAN SIGNAL HEAD
		LIGHT DETECTOR
		CONFIRMATION BEACON

NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 TRAFFIC SIGNAL PLAN
 FAP 68 (IL 23 NB)/COLUMBUS ST
 AND MADISON STREET
 SECTION 35.51 & 48 CS, 12)TS
 LA SALLE COUNTY

SCALE: VERT. 1" = 20'
 HORIZ. 1" = 20'
 DATE 11/08

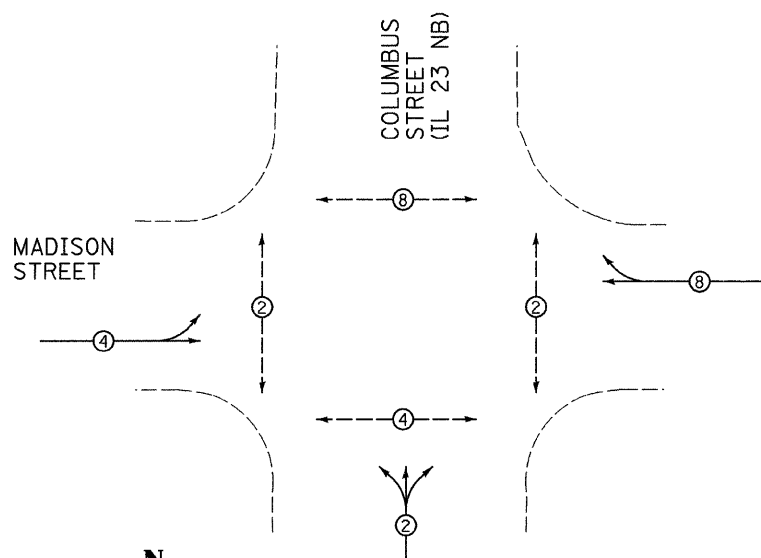
DRAWN BY ARR
 CHECKED BY JLS

LEGEND
 SIDEWALK REMOVAL AND REPLACEMENT

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	**	LA SALLE	48	29
STA.		TO STA.		
FED. ROAD DIST. NO. ILLINOIS		FED. AID PROJECT		
* FAP 68 & 68 ALT (IL 23 NB & SB) ** (35, 51 & 48 CS, 12)TS				

CONTROLLER SEQUENCE

NAME OF INTERSECTION: COLUMBUS STREET AND MADISON STREET
 CONTROLLER SPECIFIED: FULL-ACTUATED CONTROLLER, STANDARD SEQUENCE II, 8 PHASE, IN TYPE IV CABINET
 REFERRING TO STANDARD 857001, THE VEHICULAR AND PEDESTRIAN PHASES USED ARE DESIGNATED.



LEGEND

- VEHICULAR MOVEMENT
- - -●- - - PEDESTRIAN MOVEMENT
- * NUMBER REFERS TO ASSOCIATED PHASE

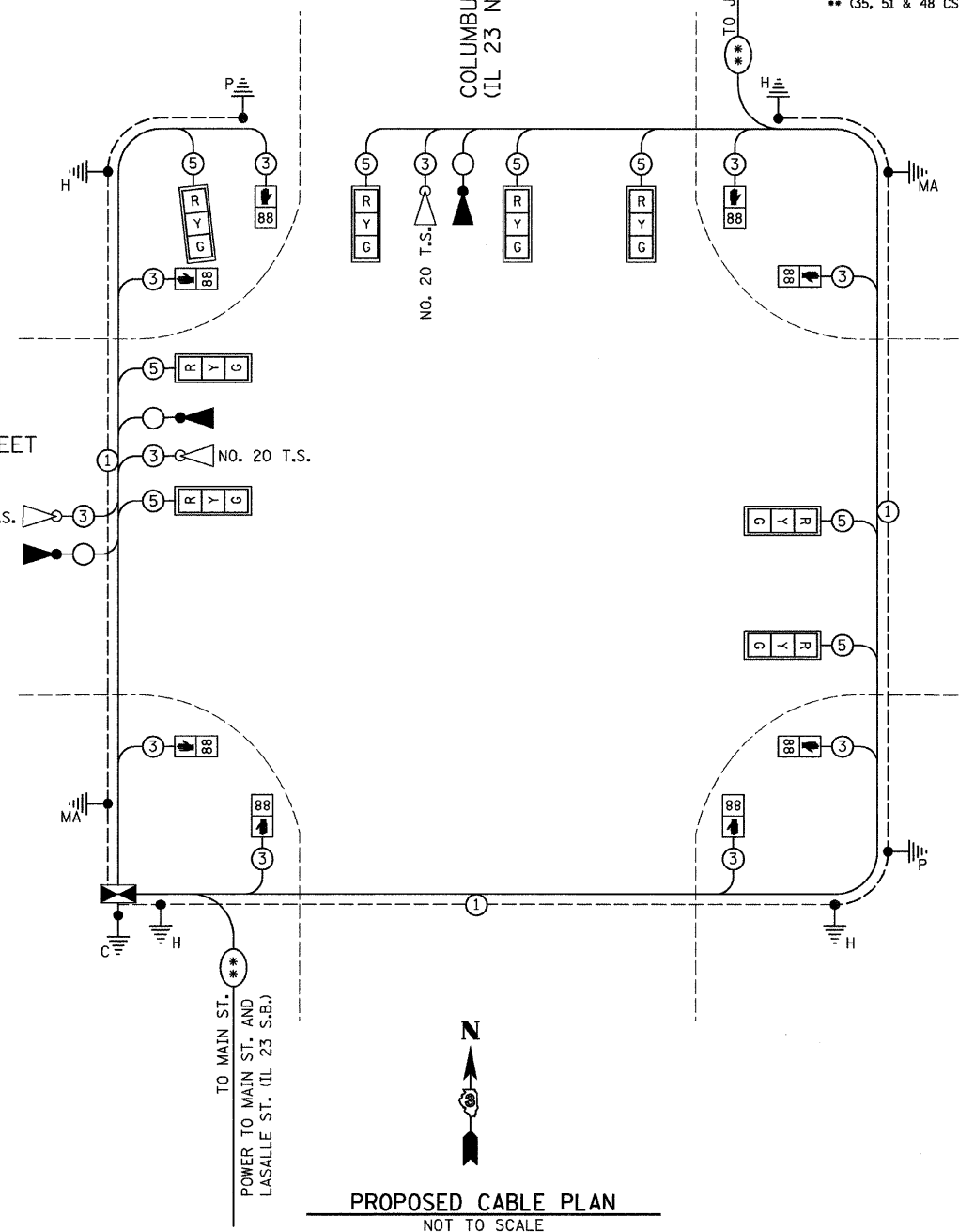
PROPOSED PLAN
NOT TO SCALE

TRAFFIC SIGNALS LEGEND

⊙	DETNOTES NUMBER OF CONDUCTORS (NEW) ALL CABLE NO. 14 EXCEPT AS INDICATED
■	PROPOSED SERVICE INSTALLATION, TYPE B
⊠	PROPOSED CONTROLLER AND CABINET
⚡	EMERGENCY VEHICLE LIGHT DETECTOR
⚡	EMERGENCY VEHICLE CONFIRMATION BEACON
□	SIGNAL SECTION 12"
⊙*	PROPOSED INTERCONNECT CABLE
88	PROPOSED WALK/DONT WALK COUNTDOWN SECTION
⊠	TRAFFIC SIGNAL BACKPLATE
①	GROUND CABLE IN CONDUIT, NO. 6 SOLID COPPER (GREEN)
⚡	GROUND ROD AT POST (P) OR MAST ARM (MA) OR CONTROLLER (C) OR SERVICE INSTALLATION (S) OR HANDHOLE (H)

MADISON STREET

COLUMBUS STREET
(IL 23 NB)



PROPOSED CABLE PLAN
NOT TO SCALE

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 CABLE PLAN
 FAP 68 (IL 23 NB)/COLUMBUS ST
 AND MADISON STREET
 SECTION 35,51 & 48 CS, 12)TS
 LA SALLE COUNTY

SCALE: VERT.
HORIZ.
DATE 11/08

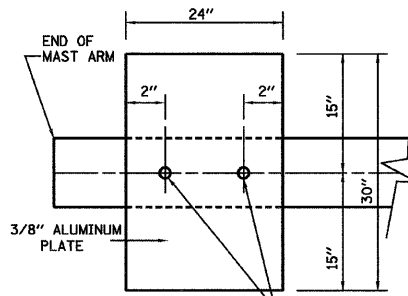
DRAWN BY ARR
 CHECKED BY JLS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	**	LA SALLE	48	30

STA. TO STA.
 FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT
 * FAP 68 & 68 ALT (IL 23 NB & SB)
 ** (35, 51 & 48 CS, 12)TS

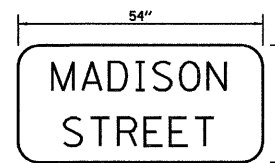
ELECTRICAL LOAD FOR INTERSECTION				
STREET NAME	COMPONENT	NUMBER	WATTAGE EACH	BURNTIME %
COLUMBUS STREET (IL 23 SB)	RED	4	10	42
	YELLOW	4	19	5
	GREEN	4	14	53
		4	7	100
		4	5	53
MADISON STREET	RED	4	10	68
	YELLOW	4	19	5
	GREEN	4	14	27
		4	7	100
		4	5	27
TRAFFIC SIGNAL CABINET	CONTROLLER	1	6	100
	UPS	1	50	100
	EMERGENCY VEHICLE PREEMPT	3	--	--

NOTE:
 DAMPENING DEVICE SHALL CONSIST OF A 24" X 30" TYPE 1, UNPAINTED ALUMINUM SIGN STOCK MOUNTED HORIZONTALLY ON TOP OF MAST ARM WITH THE 30" LENGTH PERPENDICULAR TO THE ARM. COST OF THE DAMPENING DEVICE IS INCLUDED IN THE MAST ARM PAY ITEM.



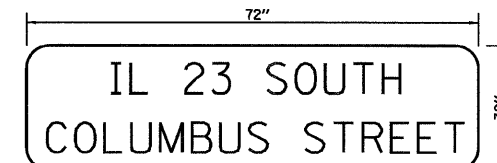
2-5/8" STAINLESS STEEL BOLTS THROUGH STAINLESS STEEL BANDING
 NOTE:
 MOUNT DAMPENING PLATE TO END OF EACH TRAFFIC SIGNAL MAST ARM.

DAMPENING PLATE DETAIL - TOP VIEW



TYPE Z2 SHEETING REQUIRED
 8" D SERIES LETTERS
 1 SIGNS REQUIRED = 11.25 SQ. FT. EACH
 = 11.25 SQ. FT. TOTAL

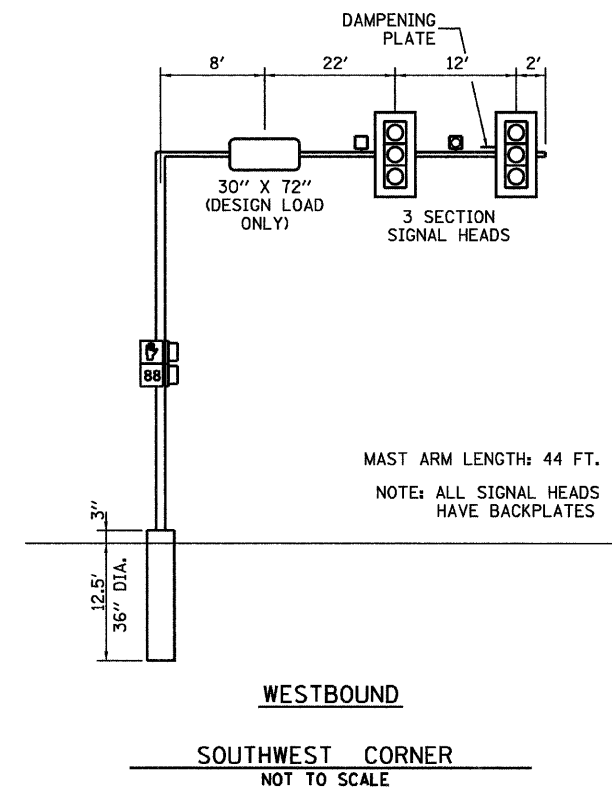
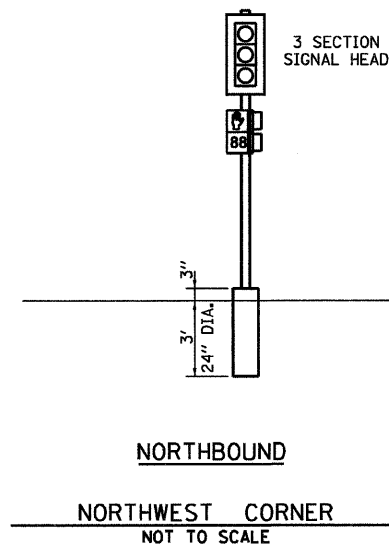
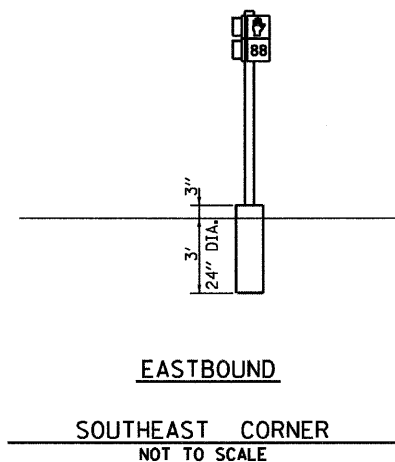
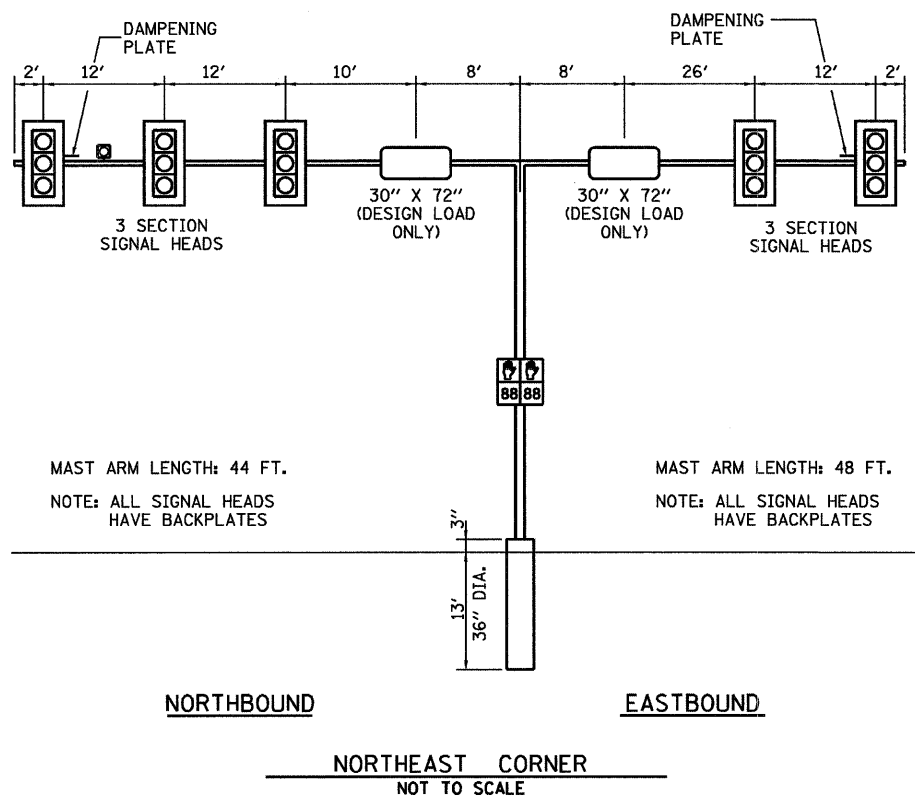
THIS STREET NAME SIGN SHALL BE PLACED ON THE MAST ARMS PARALLEL WITH MADISON STREET



TYPE Z2 SHEETING REQUIRED
 8" D SERIES LETTERS (STATE ROUTE LETTERING)
 6" D SERIES LETTERS (CITY STREET LETTERING)
 2 SIGNS REQUIRED = 15 SQ. FT. EACH
 = 30 SQ. FT. TOTAL

THIS STREET NAME SIGN SHALL BE PLACED ON THE MAST ARMS PARALLEL WITH COLUMBUS STREET

AGENCY RESPONSIBLE FOR TRAFFIC SIGNAL ENERGY CHARGES:
 CITY OF OTTAWA



COLUMBUS STREET (IL 23 NB) / MADISON STREET

MAST ARM AND POLE SHALL BE DESIGNED FOR THE WORST CASE LOADING CONDITION WHEREBY ALL THE SIGNAL HEADS ARE LOCATED 2 FEET FURTHER OUT THAN POSITION SHOWN. HOWEVER THE INTENT IS THAT ALL SIGNAL HEADS BE CENTERED ABOVE THE LANES.

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 TRAFFIC SIGNAL DETAILS
 FAP 68 (IL 23 NB)/COLUMBUS ST
 AND MADISON STREET
 SECTION 35.51 & 48 CS, 12)TS
 LA SALLE COUNTY

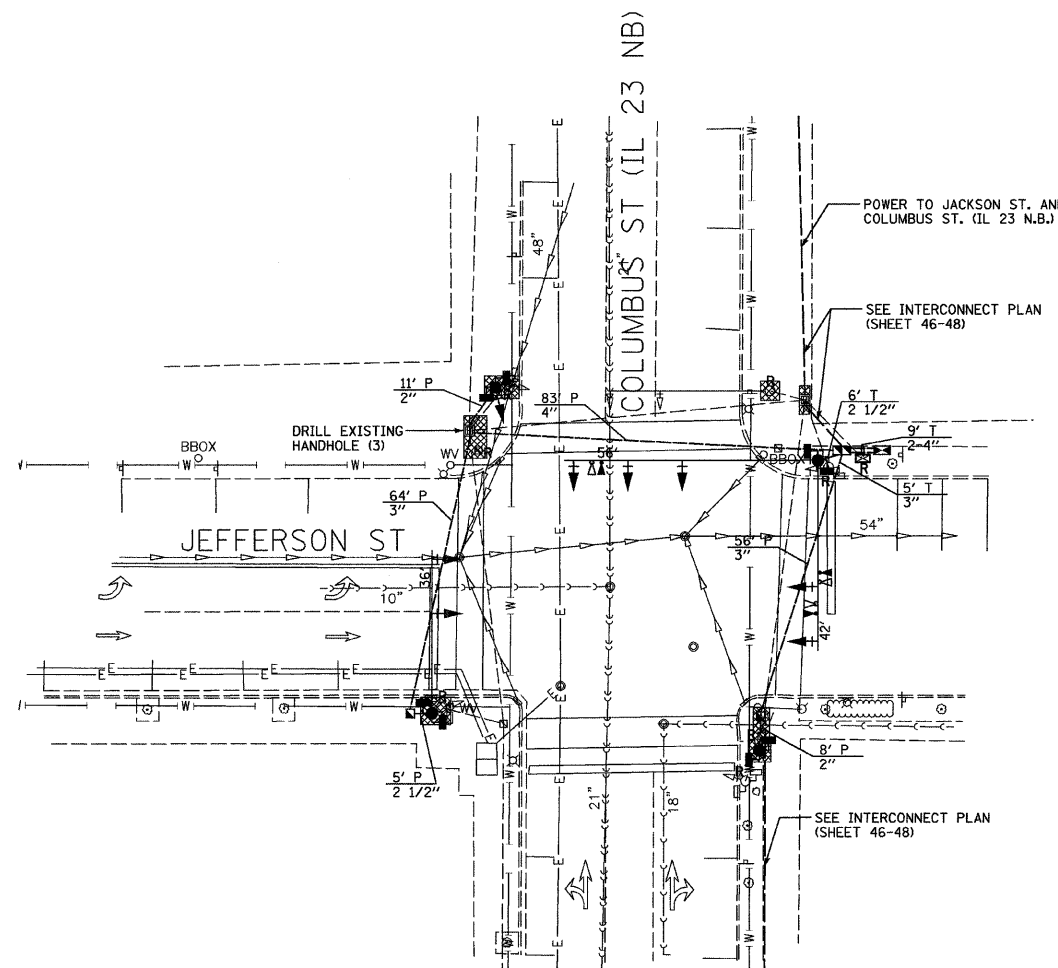
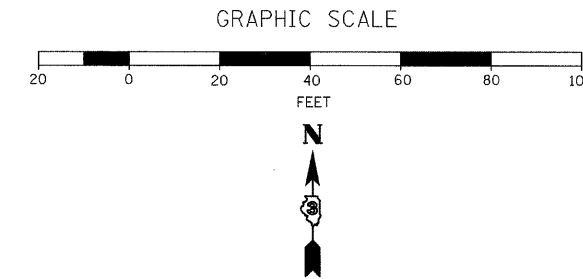
SCALE: VERT. HORIZ.
 DATE 11/08
 DRAWN BY ARR
 CHECKED BY JLS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	**	LA SALLE	48	31

FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT
 * FAP 68 & 68 ALT (IL 23 NB & SB)
 ** (35, 51 & 48 CS, 12)TS

CONSTRUCTION NOTES:

- REMOVE AND REPLACE CONTROLLER AND CAINET ON NEW FOUNDATION.
- INSTALL UNINTERRUPTABLE POWER SUPPLY.
- REMOVE EXISTING TRAFFIC SIGNAL POST AND MAST ARM AND POLE ON NORTHEAST CORNER AND REPLACE WITH DUAL MAST ARM AND POLE ON NEW FOUNDATION AS SHOWN.
- REMOVE EXISTING TRAFFIC SIGNAL POST ON SOUTHWEST CORNER AND REPLACE WITH MAST ARM AND POLE ON NEW FOUNDATION AS SHOWN.
- REMOVE AND REPLACE TRAFFIC SIGNAL POSTS ON SOUTHEAST AND NORTHWEST CORNERS ON NEW FOUNDATIONS AS SHOWN.
- ADJUST THE HANDHOLES ON THE NORTHEAST AND NORTHWEST CORNERS WITH NEW FRAMES AND LIDS.
- NEW AND EXISTING HANDHOLES SHALL BE UTILIZED AS SHOWN.
- ALL EXISTING SIGNAL CABLE IN CONDUIT SHALL BE REMOVED.
- EXISTING FOUNDATIONS SHALL BE REMOVED AS SHOWN.
- REMOVAL OF THE FOLLOWING ITEMS SHALL BE PAID FOR AS REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT:
 - 1 EACH - CONTROLLER AND CABINET W/ AL CONTENTS
 - 4 EACH - TRAFFIC SIGNAL POST
 - 1 EACH - MAST ARM AND POLE
 - 4 EACH - SIGNAL HEAD, 1-FACE, 3-SECTION, BRACKET MOUNTED
 - 2 EACH - SIGNAL HEAD, 1-FACE, 3-SECTION, MAST ARM MOUNTED
 - 8 EACH - PEDESTRIAN SIGNAL HEAD, 1-FACE, BRACKET MOUNTED



SCHEDULE OF QUANTITIES

ITEM NO.	DESCRIPTION	UNIT	TOTAL QUANTITY
42400100	PORTLAND CEMENT CONCRETE SIDEWALK, 4 INCH	SQ FT	171.2
44000600	SIDEWALK REMOVAL	SQ FT	191.4
50200400	ROCK EXCAVATION FOR STRUCTURES	CU YD	3.6
72000100	SIGN PANEL - TYPE 1	SQ FT	45
81012700	CONDUIT IN TRENCH, 2 1/2" DIA., PVC	FOOT	6
81012800	CONDUIT IN TRENCH, 3" DIA., PVC	FOOT	5
81013000	CONDUIT IN TRENCH, 4" DIA., PVC	FOOT	18
81021330	CONDUIT PUSHED, 2" DIA., PVC	FOOT	19
81021340	CONDUIT PUSHED, 2 1/2" DIA., PVC	FOOT	5
81021350	CONDUIT PUSHED, 3" DIA., PVC	FOOT	120
81021370	CONDUIT PUSHED, 4" DIA., PVC	FOOT	83
81400700	HANDHOLE, PORTLAND CEMENT CONCRETE	EACH	2
81400720	DOUBLE HANDHOLE, PORTLAND CEMENT CONCRETE	EACH	1
81900200	TRENCH AND BACKFILL FOR ELECTRICAL WORK	FOOT	20
85000200	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
85700205	FULL-ACTUATED CONTROLLER AND TYPE IV CABINET, SPECIAL	EACH	1
86200300	UNINTERRUPTABLE POWER SUPPLY, EXTENDED	EACH	1
86400100	TRANSCEIVER-FIBER OPTIC	EACH	1
87301225	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	1022
87301245	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	1132.5
87301805	ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2C	FOOT	440
87502270	TRAFFIC SIGNAL POST, PAINTED STEEL 12 FT.	EACH	1
87502310	TRAFFIC SIGNAL POST, PAINTED STEEL 16 FT.	EACH	1
87700220	STEEL MAST ARM AND ASSEMBLY AND POLE, 36 FT.	EACH	1
87800100	CONCRETE FOUNDATION, TYPE A	FOOT	6
87800150	CONCRETE FOUNDATION, TYPE C	FOOT	3.5
87800415	CONCRETE FOUNDATION, TYPE E, 36 INCH DIAMETER	FOOT	24.5
87900200	DRILL EXISTING HANDHOLE	EACH	3
88040070	SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	1
88040090	SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED	EACH	7
88200410	TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC	EACH	8
88700200	LIGHT DETECTOR	EACH	3
88700300	LIGHT DETECTOR AMPLIFIER	EACH	1
89502300	REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	2086
89502375	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
89502380	REMOVE EXISTING HANDHOLE	EACH	4
89502385	REMOVE EXISTING CONCRETE FOUNDATION	EACH	6
X8730027	ELECTRIC CABLE IN CONDUIT, GROUNDING, NO. 6 1C	FOOT	294.5
X8730250	ELECTRIC CABLE IN CONDUIT, COMMUNICATION, NO. 20 3/C, TWISTED, SHIELDED	FOOT	286
XX002852	RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM	EACH	1
XX006533	PEDESTRIAN SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, BRACKET MOUNTED, COUNTDOWN TIMER	EACH	8
XX006668	HANDHOLE TO BE ADJUSTED WITH NEW FRAME AND COVER	EACH	2
*3002039	STEEL MAST ARM AND ASSEMBLY AND POLE WITH DUAL MAST ARMS, 42 FT. AND 56 FT.	EACH	1

TRAFFIC SIGNALS LEGEND

EXISTING	PROPOSED	DESCRIPTION
		CONTROLLER CABINET
		SERVICE INSTALLATION
		CONDUIT
		SIGNAL HEAD WITH BACKPLATE
		STEEL MAST ARM
		TRAFFIC SIGNAL POST
		HANDHOLE
		DOUBLE HANDHOLE
		PEDESTRIAN SIGNAL HEAD
		LIGHT DETECTOR
		CONFIRMATION BEACON

LEGEND

SIDEWALK REMOVAL AND REPLACEMENT

REVISIONS

NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
TRAFFIC SIGNAL PLAN
 FAP 68 (IL 23 NB)/COLUMBUS ST
 AND JEFFERSON STREET
 SECTION 35,51 & 48 CS, 12)TS
 LA SALLE COUNTY

SCALE: VERT. 1" = 20'
 HORIZ. 1" = 20'
 DATE 11/08

DRAWN BY ARR
 CHECKED BY JLS

PLOT DATE = 11/08
 FILE NAME = D:\66769\99-SHT-TS-COLU-JEFF.DGN
 PLOT SCALE = 1" = 20'
 USER NAME = ARR

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	**	LA SALLE	48	32

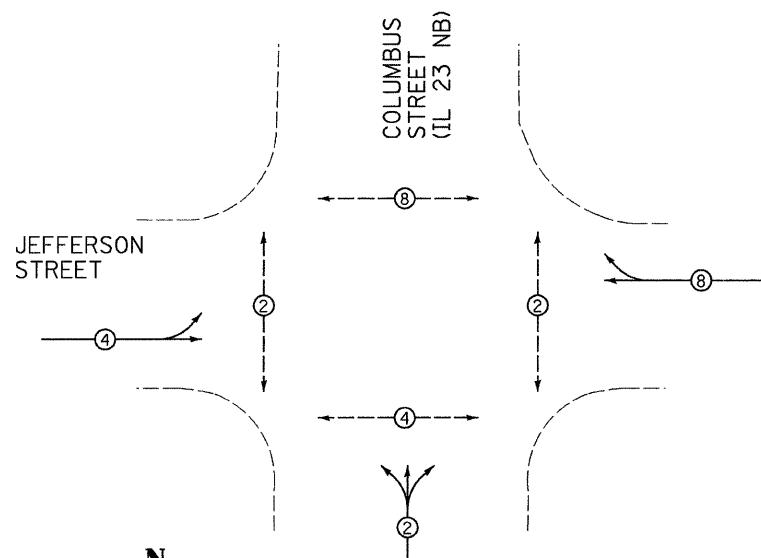
STA. TO STA.

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

- * FAP 68 & 68 ALT (IL 23 NB & SB)
- ** (35, 51 & 48 CS, 12)TS

CONTROLLER SEQUENCE

NAME OF INTERSECTION: COLUMBUS STREET AND JEFFERSON STREET
 CONTROLLER SPECIFIED: FULL-ACTUATED CONTROLLER, STANDARD SEQUENCE II, 8 PHASE, IN TYPE IV CABINET
 REFERRING TO STANDARD 857001, THE VEHICULAR AND PEDESTRIAN PHASES USED ARE DESIGNATED.



PROPOSED PLAN
NOT TO SCALE

LEGEND

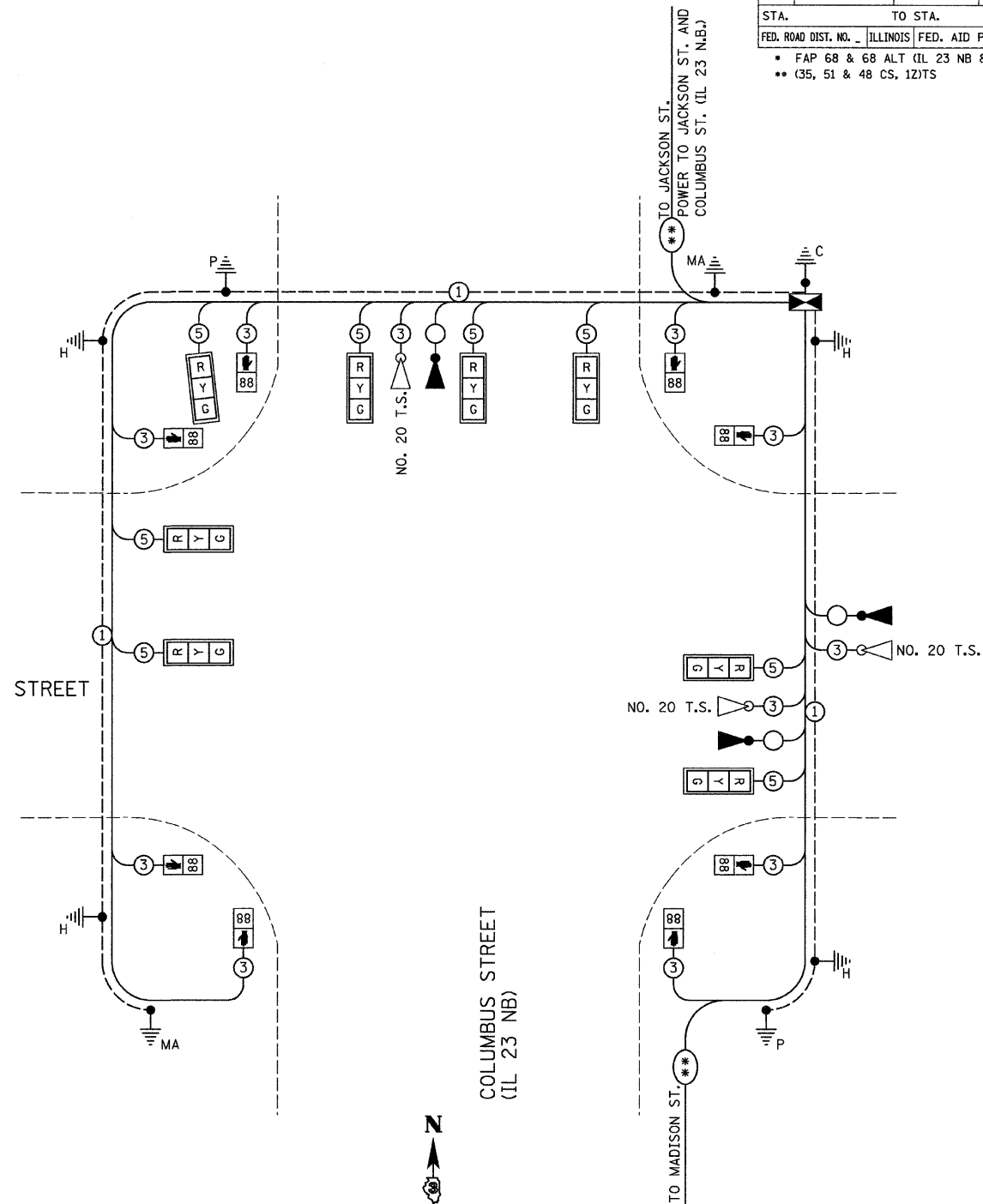
- VEHICULAR MOVEMENT
- - -●- - - PEDESTRIAN MOVEMENT
- * NUMBER REFERS TO ASSOCIATED PHASE

TRAFFIC SIGNALS LEGEND

⊙	DETNOTES NUMBER OF CONDUCTORS (NEW) ALL CABLE NO. 14 EXCEPT AS INDICATED
■	PROPOSED SERVICE INSTALLATION, TYPE B
⚡	PROPOSED CONTROLLER AND CABINET
⚡	EMERGENCY VEHICLE LIGHT DETECTOR
⚡	EMERGENCY VEHICLE CONFIRMATION BEACON
□	SIGNAL SECTION 12"
⊙*	PROPOSED INTERCONNECT CABLE
Ⓜ	PROPOSED WALK/DONT WALK COUNTDOWN SECTION
Ⓜ	TRAFFIC SIGNAL BACKPLATE
—①—	GROUND CABLE IN CONDUIT, NO. 6 SOLID COPPER (GREEN)
Ⓜ	GROUND ROD AT POST (P) OR MAST ARM (MA) OR CONTROLLER (C) OR SERVICE INSTALLATION (S) OR HANDHOLE (H)

JEFFERSON STREET

COLUMBUS STREET (IL 23 NB)



PROPOSED CABLE PLAN
NOT TO SCALE

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 CABLE PLAN
 FAP 68 (IL 23 NB)/COLUMBUS ST
 AND JEFFERSON STREET
 SECTION 35,51 & 48 CS, 12)TS
 LA SALLE COUNTY

SCALE: VERT.
 HORIZ.
 DATE 11/08

DRAWN BY ARR
 CHECKED BY JLS

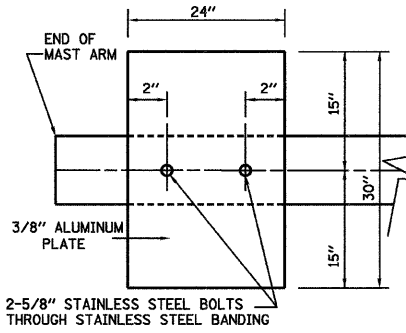
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	**	LA SALLE	48	33
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
* FAP 68 & 68 ALT (IL 23 NB & SB)				
** (35, 51 & 48 CS, 12)TS				

ELECTRICAL LOAD FOR INTERSECTION				
STREET NAME	COMPONENT	NUMBER	WATTAGE EACH	BURNTIME %
COLUMBUS STREET (IL 23 SB)	RED	4	10	42
	YELLOW	4	19	5
	GREEN	4	14	53
	88	4	7	100
	88	4	5	53
JEFFERSON STREET	RED	4	10	68
	YELLOW	4	19	5
	GREEN	4	14	27
	88	4	7	100
	88	4	5	27
TRAFFIC SIGNAL CABINET	CONTROLLER	1	6	100
	UPS	1	50	100
	EMERGENCY VEHICLE PREEMPT	3	--	--

AGENCY RESPONSIBLE FOR TRAFFIC SIGNAL ENERGY CHARGES:
CITY OF OTTAWA

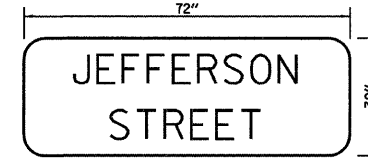
NOTE:

DAMPENING DEVICE SHALL CONSIST OF A 24" X 30" TYPE 1, UNPAINTED ALUMINUM SIGN STOCK MOUNTED HORIZONTALLY ON TOP OF MAST ARM WITH THE 30" LENGTH PERPENDICULAR TO THE ARM. COST OF THE DAMPENING DEVICE IS INCLUDED IN THE MAST ARM PAY ITEM.



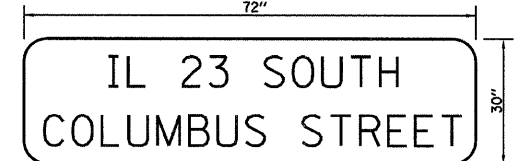
NOTE:
MOUNT DAMPENING PLATE TO END OF EACH TRAFFIC SIGNAL MAST ARM.

DAMPENING PLATE DETAIL - TOP VIEW



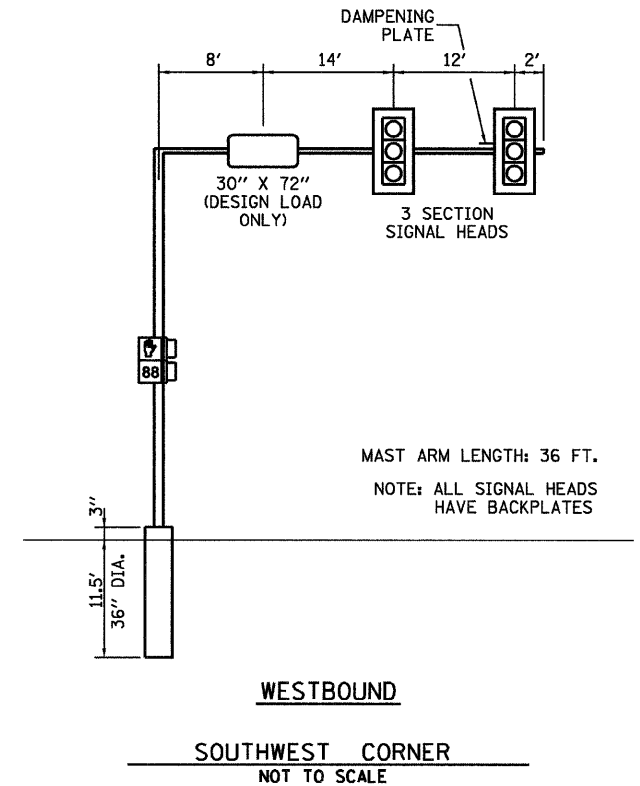
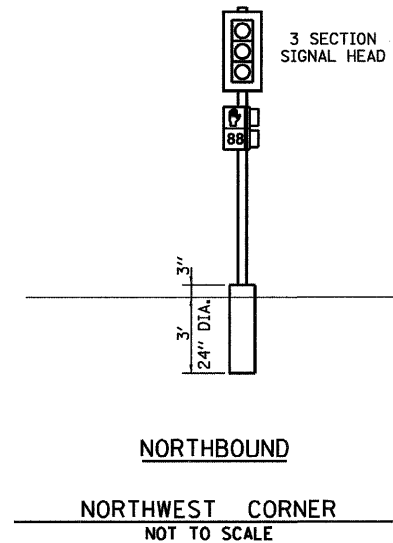
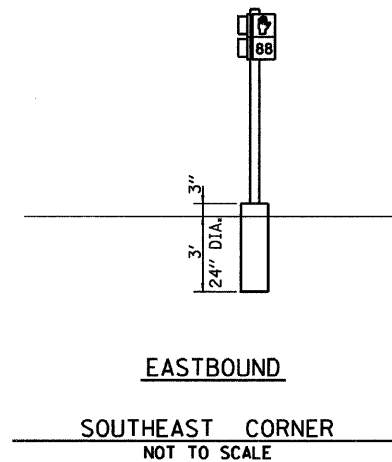
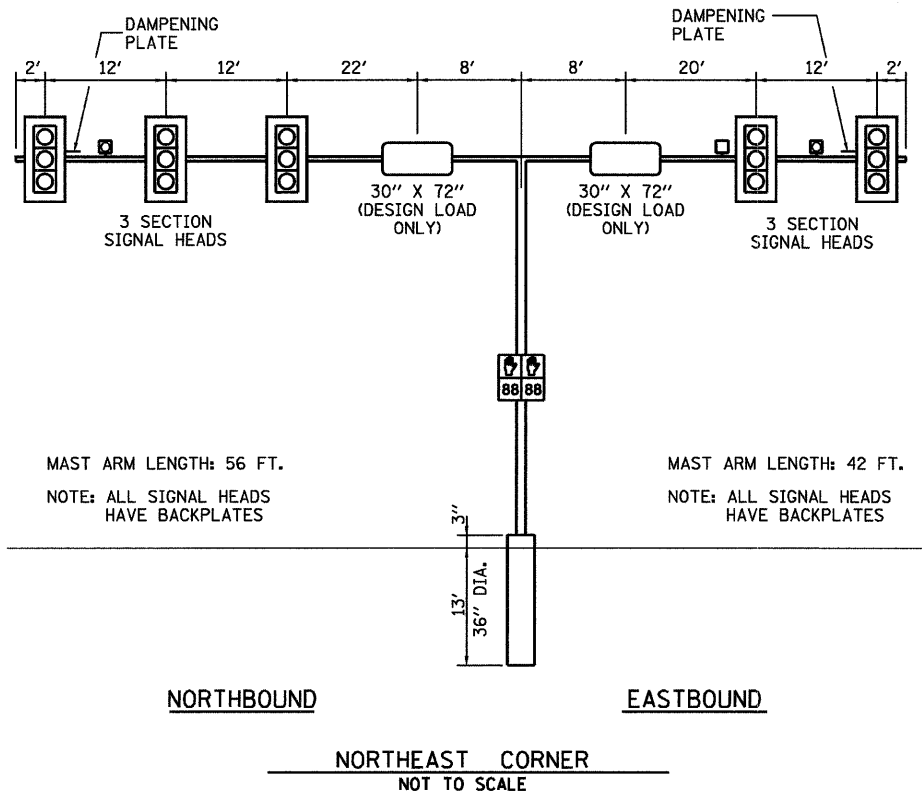
TYPE ZZ SHEETING REQUIRED
8" D SERIES LETTERS
1 SIGNS REQUIRED = 15 SQ. FT. EACH
= 15 SQ. FT. TOTAL

THIS STREET NAME SIGN SHALL BE PLACED ON THE MAST ARMS PARALLEL WITH JEFFERSON STREET



TYPE ZZ SHEETING REQUIRED
8" D SERIES LETTERS (STATE ROUTE LETTERING)
6" D SERIES LETTERS (CITY ROUTE LETTERING)
2 SIGNS REQUIRED = 15 SQ. FT. EACH
= 30 SQ. FT. TOTAL

THIS STREET NAME SIGN SHALL BE PLACED ON THE MAST ARMS PARALLEL WITH COLUMBUS STREET



COLUMBUS STREET (IL 23 NB) / JEFFERSON STREET

MAST ARM AND POLE SHALL BE DESIGNED FOR THE WORST CASE LOADING CONDITION WHEREBY ALL THE SIGNAL HEADS ARE LOCATED 2 FEET FURTHER OUT THAN POSITION SHOWN. HOWEVER THE INTENT IS THAT ALL SIGNAL HEADS BE CENTERED ABOVE THE LANES.

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
TRAFFIC SIGNAL DETAILS
FAP 68 (IL 23 NB)/COLUMBUS ST
AND JEFFERSON STREET
SECTION 35,51 & 48 CS, 12)TS
LA SALLE COUNTY

SCALE: VERT. DRAWN BY ARR
 HORIZ. CHECKED BY JLS
DATE 11/08

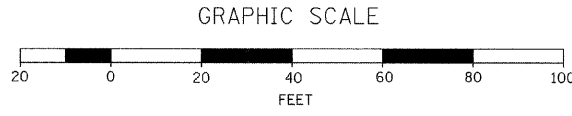
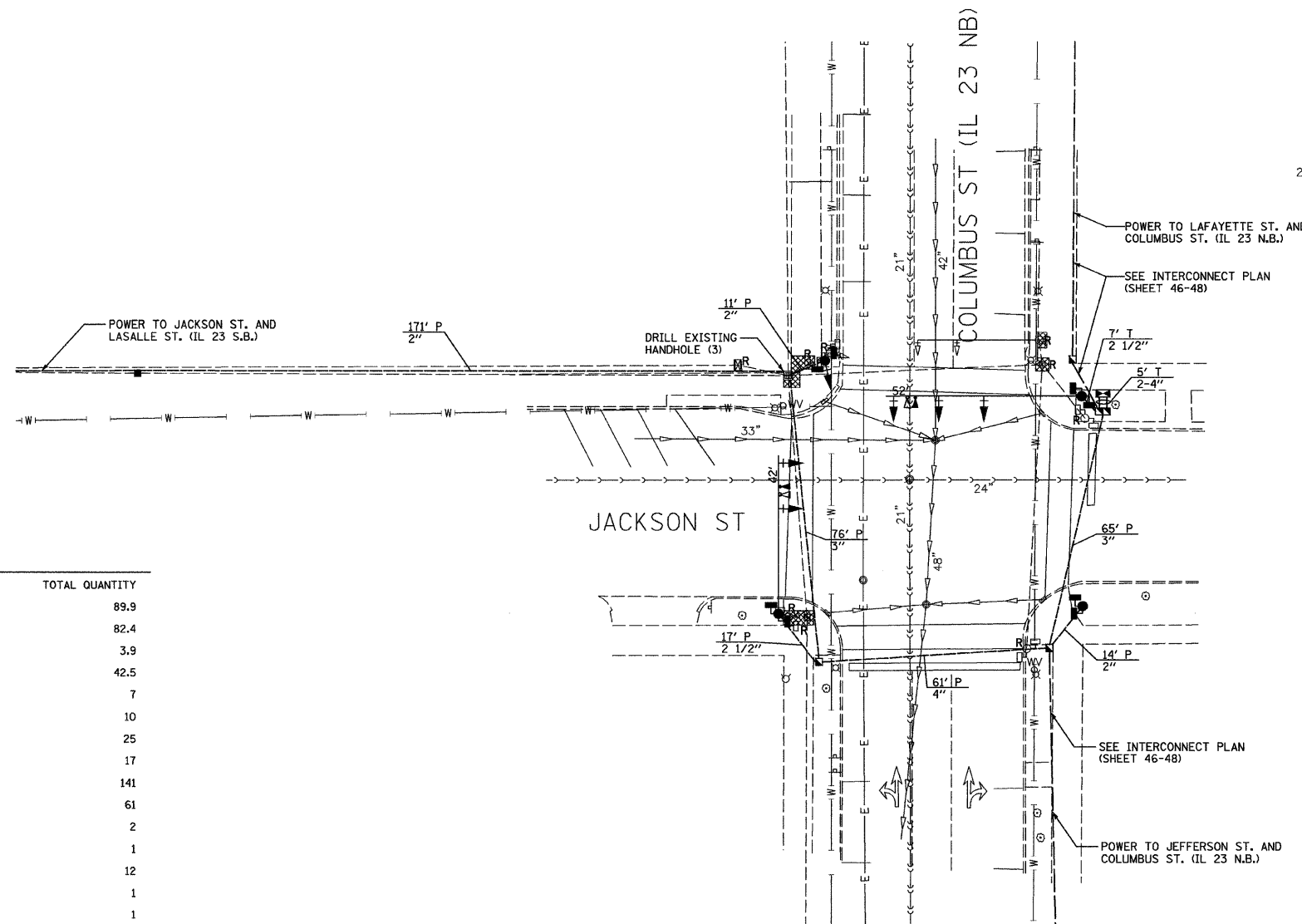
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	**	LA SALLE	48	34
STA.		TO STA.		
FED. ROAD DIST. NO. _		ILLINOIS FED. AID PROJECT		
• FAP 68 & 68 ALT (IL 23 NB & SB) •• (35, 51 & 48 CS, 12)TS				

CONSTRUCTION NOTES:

- REMOVE AND REPLACE CONTROLLER AND CABINET ON NEW FOUNDATION.
- INSTALL UNINTERRUPTABLE POWER SUPPLY.
- REMOVE EXISTING TRAFFIC SIGNAL POST AND MAST ARM AND POLE ON NORTHEAST CORNER AND REPLACE WITH A MAST ARM AND POLE ON NEW FOUNDATION AS SHOWN.
- REMOVE EXISTING TRAFFIC SIGNAL POST ON SOUTHWEST CORNER AND REPLACE WITH MAST AND POLE ON NEW FOUNDATION AS SHOWN.
- REMOVE AND REPLACE TRAFFIC SIGNAL POSTS ON SOUTHEAST AND NORTHWEST CORNERS ON NEW FOUNDATIONS AS SHOWN.
- ADJUST THE HANDHOLE ON THE NORTHWEST CORNER WITH A NEW FRAME AND LID.
- NEW AND EXISTING HANDHOLES SHALL BE UTILIZED AS SHOWN.
- ALL EXISTING SIGNAL CABLE IN CONDUIT SHALL BE REMOVED.
- EXISTING FOUNDATIONS SHALL BE REMOVED AS SHOWN.
- THE FIRST CONGREGATIONAL UNITED CHURCH OF CHRIST (815-433-0771) SHALL BE NOTIFIED AT LEAST 3 WEEK PRIOR TO THE INSTALLATION OF SIGNALS AT THIS INTERSECTION IN ORDER TO MOBILIZE WORKERS TO TRIM TREES WHICH MAY INTERFERE WITH TRAFFIC SIGNAL VISIBILITY.
- REMOVAL OF THE FOLLOWING ITEMS SHALL BE PAID FOR AS REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT:
 - 1 EACH - CONTROLLER CABINET W/ ALL CONTENTS
 - 4 EACH - TRAFFIC SIGNAL POST
 - 1 EACH - MAST ARM AND POLE
 - 2 EACH - SIGNAL HEAD, 1-FACE, 3-SECTION, BRACKET MOUNTED
 - 2 EACH - SIGNAL HEAD, 1-FACE, 3-SECTION, MAST ARM MOUNTED
 - 8 EACH - PEDESTRIAN SIGNAL HEAD, 1-FACE, BRACKET MOUNTED

SCHEDULE OF QUANTITIES

ITEM NO.	DESCRIPTION	UNIT	TOTAL QUANTITY
42400100	PORTLAND CEMENT CONCRETE SIDEWALK, 4 INCH	SQ FT	89.9
44000600	SIDEWALK REMOVAL	SQ FT	82.4
50200400	ROCK EXCAVATION FOR STRUCTURES	CU YD	3.9
72000100	SIGN PANEL - TYPE 1	SQ FT	42.5
81012700	CONDUIT IN TRENCH, 2 1/2" DIA., PVC	FOOT	7
81013000	CONDUIT IN TRENCH, 4" DIA., PVC	FOOT	10
81021330	CONDUIT PUSHED, 2" DIA., PVC	FOOT	25
81021340	CONDUIT PUSHED, 2 1/2" DIA., PVC	FOOT	17
81021350	CONDUIT PUSHED, 3" DIA., PVC	FOOT	141
81021370	CONDUIT PUSHED, 4" DIA., PVC	FOOT	61
81400700	HANDHOLE, PORTLAND CEMENT CONCRETE	EACH	2
81400720	DOUBLE HANDHOLE, PORTLAND CEMENT CONCRETE	EACH	1
81900200	TRENCH AND BACKFILL FOR ELECTRICAL WORK	FOOT	12
85000200	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
85700205	FULL-ACTUATED CONTROLLER AND TYPE IV CABINET, SPECIAL	EACH	1
86200300	UNINTERRUPTABLE POWER SUPPLY, EXTENDED	EACH	1
86400100	TRANSCEIVER-FIBER OPTIC	EACH	1
87301225	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	1258
87301245	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	1037.5
87301805	ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2C	FOOT	416.5
87502270	TRAFFIC SIGNAL POST, PAINTED STEEL 12 FT.	EACH	1
87502310	TRAFFIC SIGNAL POST, PAINTED STEEL 16 FT.	EACH	1
87700250	STEEL MAST ARM AND ASSEMBLY AND POLE, 42 FT.	EACH	1
87700300	STEEL MAST ARM AND ASSEMBLY AND POLE, 52 FT.	EACH	1
87800100	CONCRETE FOUNDATION, TYPE A	FOOT	6
87800150	CONCRETE FOUNDATION, TYPE C	FOOT	3.5
87800415	CONCRETE FOUNDATION, TYPE E, 36 INCH DIAMETER	FOOT	26
87900200	DRILL EXISTING HANDHOLE	EACH	3
88040070	SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	1
88040090	SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED	EACH	5
88200410	TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC	EACH	6
88700200	LIGHT DETECTOR	EACH	2
88700300	LIGHT DETECTOR AMPLIFIER	EACH	1
89502300	REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	1428
89502375	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
89502380	REMOVE EXISTING HANDHOLE	EACH	3
89502385	REMOVE EXISTING CONCRETE FOUNDATION	EACH	6
X8730027	ELECTRIC CABLE IN CONDUIT, GROUNDING, NO. 6 1C	FOOT	477.5
X8730250	ELECTRIC CABLE IN CONDUIT, COMMUNICATION, NO. 20 3/C, TWISTED, SHIELDED	FOOT	341
XX002852	RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM	EACH	1
XX006533	PEDESTRIAN SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, BRACKET MOUNTED, COUNTDOWN TIMER	EACH	8
XX006668	HANDHOLE TO BE ADJUSTED WITH NEW FRAME AND COVER	EACH	1



TRAFFIC SIGNALS LEGEND

EXISTING	PROPOSED	DESCRIPTION
		CONTROLLER CABINET
		SERVICE INSTALLATION
		CONDUIT
		SIGNAL HEAD WITH BACKPLATE
		STEEL MAST ARM
		TRAFFIC SIGNAL POST
		HANDHOLE
		DOUBLE HANDHOLE
		PEDESTRIAN SIGNAL HEAD
		LIGHT DETECTOR
		CONFIRMATION BEACON

LEGEND
 SIDEWALK REMOVAL AND REPLACEMENT

REVISIONS

NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 TRAFFIC SIGNAL PLAN
 FAP 68 (IL 23 NB)/COLUMBUS ST
 AND JACKSON STREET
 SECTION 35,51 & 48 CS, 12)TS
 LA SALLE COUNTY

SCALE: VERT. 1" = 20'
 HORIZ. 1" = 20'

DATE 11/08
 DRAWN BY ARR
 CHECKED BY JLS

PLOT DATE = 11/08
 FILE NAME = D:\66769\99-SHT-TS-COLLU-JACKSON
 USER = JLS
 DATE = 11/08

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	**	LA SALLE	48	35

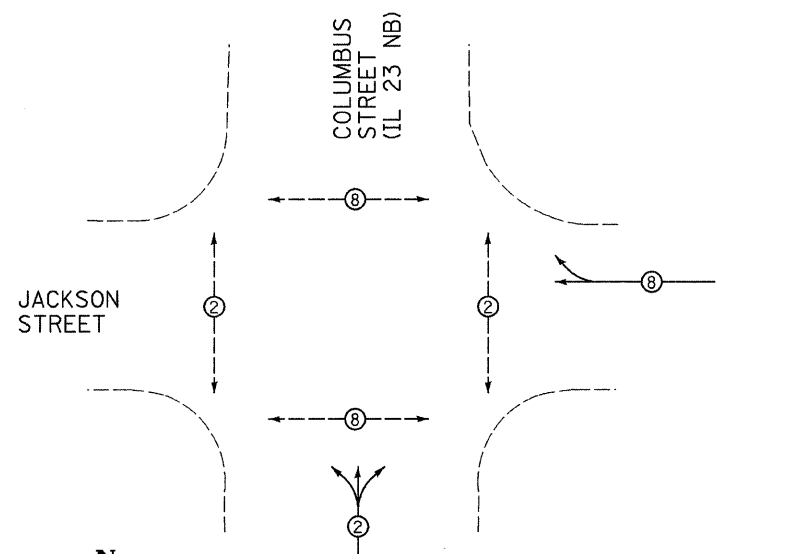
STA. TO STA.

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

- * FAP 68 & 68 ALT (IL 23 NB & SB)
- ** (35, 51 & 48 CS, 12)TS

CONTROLLER SEQUENCE

NAME OF INTERSECTION: COLUMBUS STREET AND JACKSON STREET
 CONTROLLER SPECIFIED: FULL-ACTUATED CONTROLLER, STANDARD SEQUENCE II, 8 PHASE, IN TYPE IV CABINET
 REFERRING TO STANDARD 857001, THE VEHICULAR AND PEDESTRIAN PHASES USED ARE DESIGNATED.



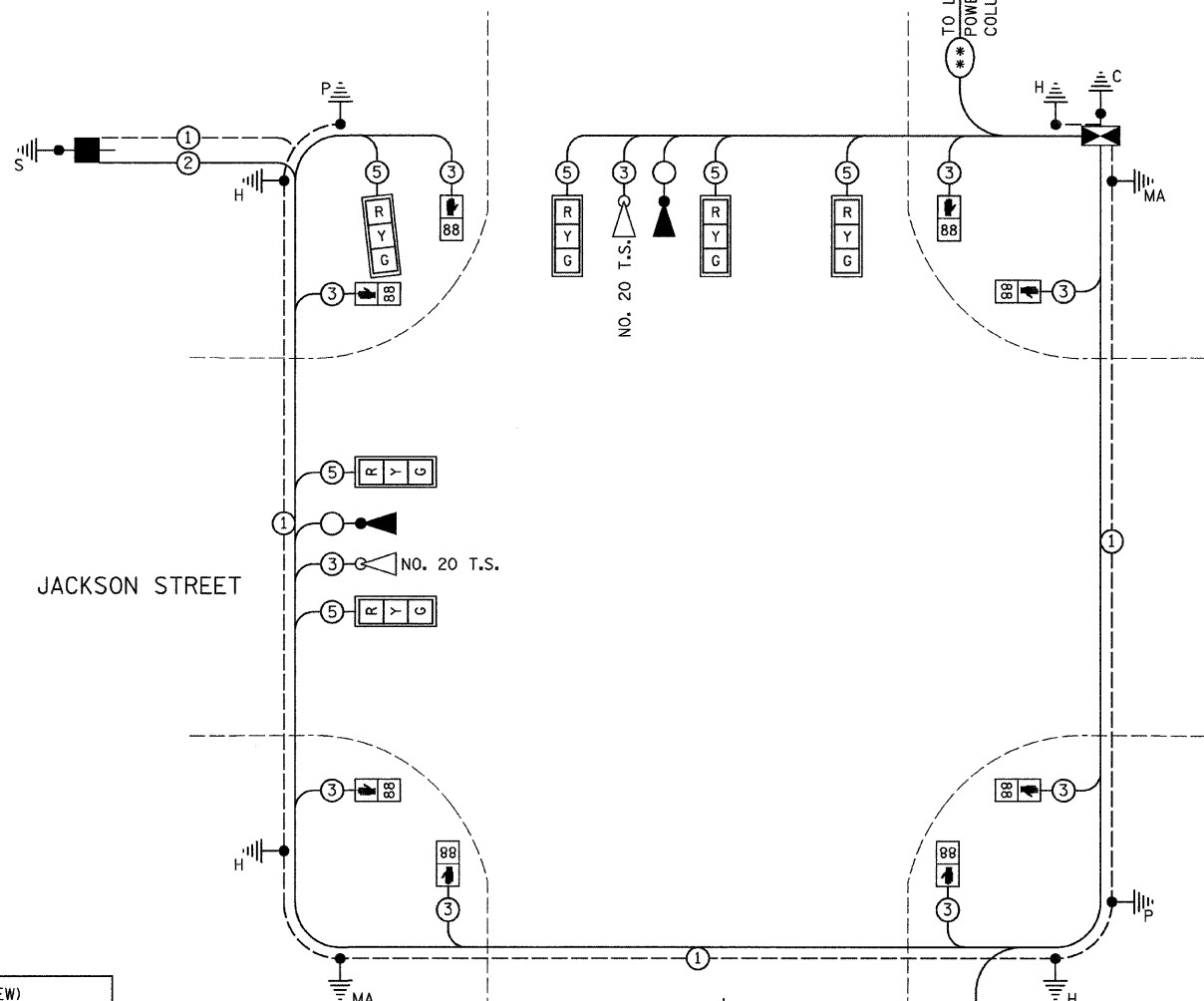
LEGEND

- ← (with circle and arrow) → VEHICULAR MOVEMENT
- (with circle and arrow) --- PEDESTRIAN MOVEMENT
- * NUMBER REFERS TO ASSOCIATED PHASE

PROPOSED PLAN
NOT TO SCALE

TRAFFIC SIGNALS LEGEND

(with circle and arrow)	DETNOTES NUMBER OF CONDUCTORS (NEW) ALL CABLE NO. 14 EXCEPT AS INDICATED
(with square)	PROPOSED SERVICE INSTALLATION, TYPE B
(with rectangle)	PROPOSED CONTROLLER AND CABINET
(with triangle)	EMERGENCY VEHICLE LIGHT DETECTOR
(with circle)	EMERGENCY VEHICLE CONFIRMATION BEACON
(with square)	SIGNAL SECTION 12"
(with double asterisks)	PROPOSED INTERCONNECT CABLE
(with square and 88)	PROPOSED WALK/DONT WALK COUNTDOWN SECTION
(with rectangle)	TRAFFIC SIGNAL BACKPLATE
(with circle and 1)	GROUND CABLE IN CONDUIT, NO. 6 SOLID COPPER (GREEN)
(with ground symbol)	GROUND ROD AT POST (P) OR MAST ARM (MA) OR CONTROLLER (C) OR SERVICE INSTALLATION (S) OR HANDHOLE (H)



PROPOSED CABLE PLAN
NOT TO SCALE

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
CABLE PLAN
 FAP 68 (IL 23 NB)/COLUMBUS ST
 AND JACKSON STREET
 SECTION 35,51 & 48 CS, 12)TS
 LA SALLE COUNTY

SCALE: VERT. _____
 HORIZ. _____
 DATE 11/08
 DRAWN BY ARR
 CHECKED BY JLS

PLOT DATE = 11/08
 FILE NAME = D066769-SHT-CABLE-COLU-JACK.DGN
 PLOT DATE = 11/08
 USER NAME = ARR

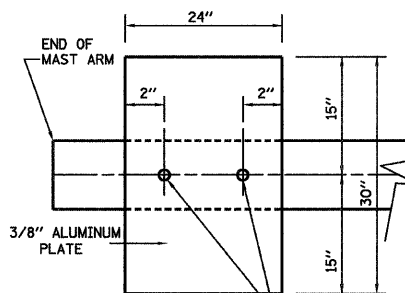
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
•	••	LA SALLE	48	36
STA.		TO STA.		
FED. ROAD DIST. NO. _		ILLINOIS FED. AID PROJECT		
• FAP 68 & 68 ALT (IL 23 NB & SB)				
•• (35, 51 & 48 CS, 12)TS				

ELECTRICAL LOAD FOR INTERSECTION				
STREET NAME	COMPONENT	NUMBER	WATTAGE EACH	BURNTIME %
COLUMBUS STREET (IL 23 SB)	RED	4	10	42
	YELLOW	4	19	5
	GREEN	4	14	53
		4	7	100
		4	5	53
JACKSON STREET	RED	2	10	68
	YELLOW	2	19	5
	GREEN	2	14	27
		4	7	100
		4	5	27
TRAFFIC SIGNAL CABINET	CONTROLLER	1	6	100
	UPS	1	50	100
	EMERGENCY VEHICLE PREEMPT	3	--	--

AGENCY RESPONSIBLE FOR TRAFFIC SIGNAL ENERGY CHARGES:
CITY OF OTTAWA

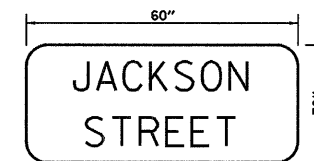
NOTE:

DAMPENING DEVICE SHALL CONSIST OF A 24" X 30" TYPE 1, UNPAINTED ALUMINUM SIGN STOCK MOUNTED HORIZONTALLY ON TOP OF MAST ARM WITH THE 30" LENGTH PERPENDICULAR TO THE ARM. COST OF THE DAMPENING DEVICE IS INCLUDED IN THE MAST ARM PAY ITEM.



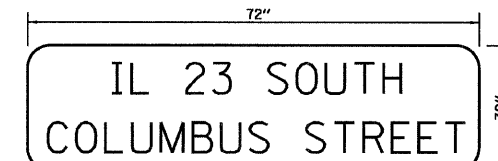
2-5/8" STAINLESS STEEL BOLTS THROUGH STAINLESS STEEL BANDING
NOTE: MOUNT DAMPENING PLATE TO END OF EACH TRAFFIC SIGNAL MAST ARM.

DAMPENING PLATE DETAIL - TOP VIEW



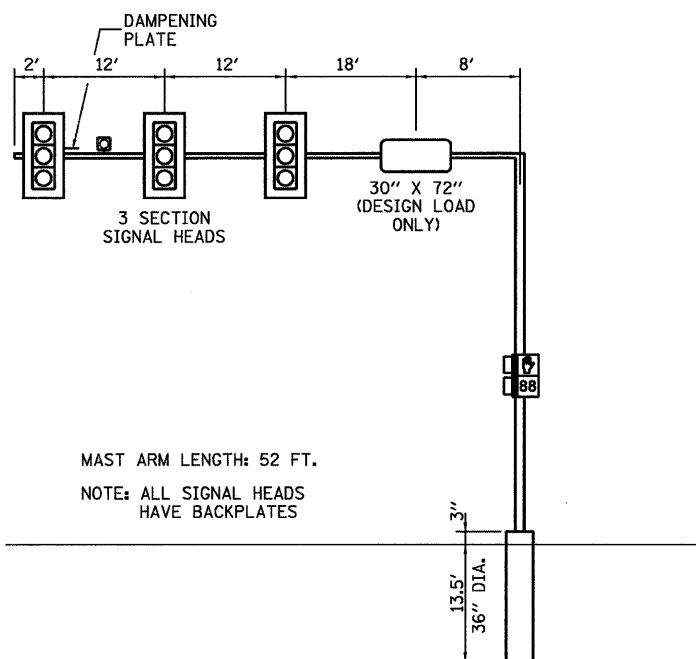
TYPE ZZ SHEETING REQUIRED
8" D SERIES LETTERS
1 SIGNS REQUIRED = 12.5 SQ. FT. EACH
= 12.5 SQ. FT. TOTAL

THIS STREET NAME SIGN SHALL BE PLACED ON THE MAST ARMS PARALLEL WITH JACKSON STREET



TYPE ZZ SHEETING REQUIRED
8" D SERIES LETTERS (STATE ROUTE LETTERING)
6" D SERIES LETTERS (CITY STREET LETTERING)
2 SIGNS REQUIRED = 15 SQ. FT. EACH
= 30 SQ. FT. TOTAL

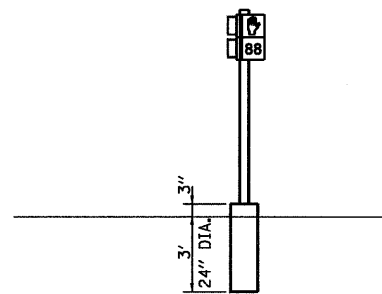
THIS STREET NAME SIGN SHALL BE PLACED ON THE MAST ARMS PARALLEL WITH COLUMBUS STREET



MAST ARM LENGTH: 52 FT.
NOTE: ALL SIGNAL HEADS HAVE BACKPLATES

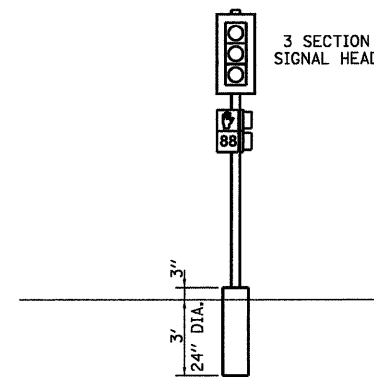
NORTHBOUND

NORTHEAST CORNER
NOT TO SCALE



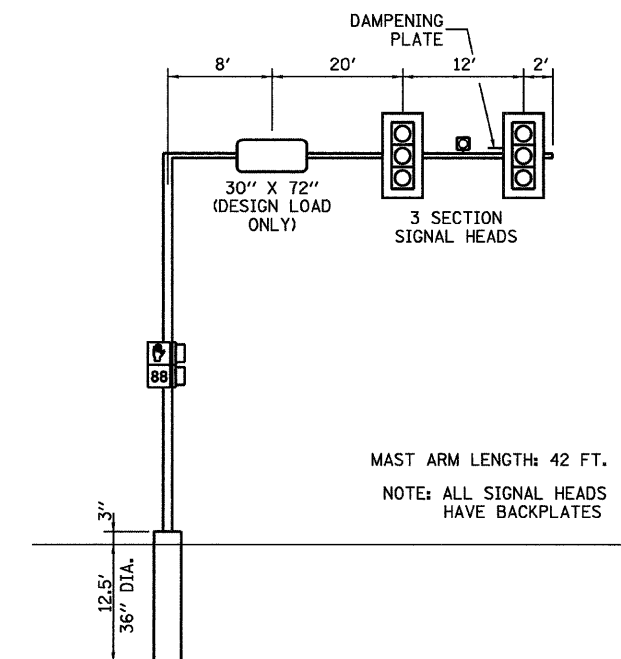
EASTBOUND

SOUTHEAST CORNER
NOT TO SCALE



NORTHBOUND

NORTHWEST CORNER
NOT TO SCALE



MAST ARM LENGTH: 42 FT.
NOTE: ALL SIGNAL HEADS HAVE BACKPLATES

WESTBOUND

SOUTHWEST CORNER
NOT TO SCALE

COLUMBUS STREET (IL 23 NB) / JACKSON STREET

MAST ARM AND POLE SHALL BE DESIGNED FOR THE WORST CASE LOADING CONDITION WHEREBY ALL THE SIGNAL HEADS ARE LOCATED 2 FEET FURTHER OUT THAN POSITION SHOWN. HOWEVER THE INTENT IS THAT ALL SIGNAL HEADS BE CENTERED ABOVE THE LANES.

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
TRAFFIC SIGNAL DETAILS
FAP 68 (IL 23 NB)/COLUMBUS ST
AND JACKSON STREET
SECTION 35,51 & 48 CS, 12)TS
LA SALLE COUNTY

SCALE: VERT.
HORIZ.
DATE 11/08

DRAWN BY ARR
CHECKED BY JLS

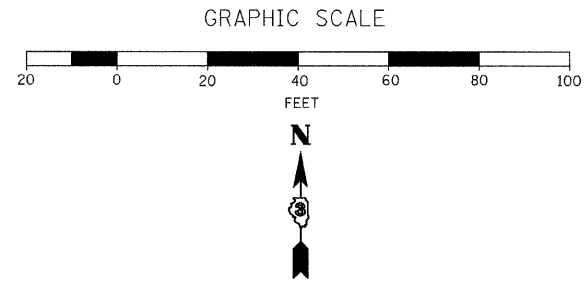
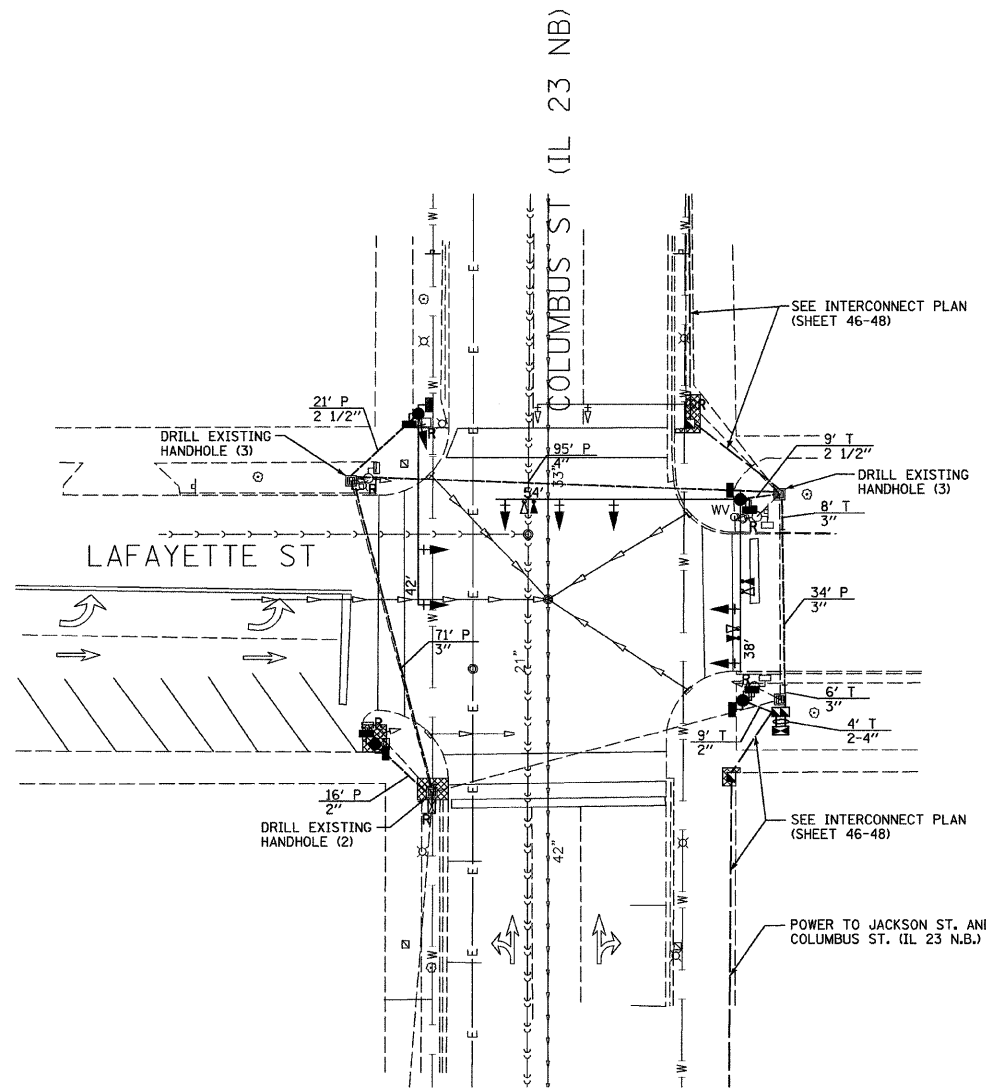
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	**	LA SALLE	48	37
STA.		TO STA.		
FED. ROAD DIST. NO. _ ILLINOIS		FED. AID PROJECT		
* FAP 68 & 68 ALT (IL 23 NB & SB) ** (35, 51 & 48 CS, 12)TS				

CONSTRUCTION NOTES:

- REMOVE AND REPLACE CONTROLLER AND CABINET ON NEW FOUNDATION.
- INSTALL UNINTERRUPTABLE POWER SUPPLY.
- REMOVE EXISTING TRAFFIC SIGNAL POST AND NORTHEAST CORNER AND REPLACE WITH DUAL MAST ARM AND POLE ON NEW FOUNDATION AS SHOWN.
- REMOVE EXISTING TRAFFIC SIGNAL POST ON NORTHWEST CORNER AND REPLACE WITH MAST ARM AND POLE ON NEW FOUNDATION AS SHOWN.
- REMOVE AND REPLACE TRAFFIC SIGNAL POSTS ON SOUTHEAST AND SOUTHWEST CORNERS ON NEW FOUNDATIONS AS SHOWN.
- ADJUST THE HANDHOLES ON THE NORTHEAST, NORTHWEST, AND SOUTHWEST CORNERS WITH NEW FRAMES AND LIDS.
- NEW AND EXISTING HANDHOLES SHALL BE UTILIZED AS SHOWN.
- ALL EXISTING SIGNAL CABLE IN CONDUIT SHALL BE REMOVED.
- EXISTING FOUNDATIONS SHALL BE REMOVED AS SHOWN.
- REMOVAL OF THE FOLLOWING ITEMS SHALL BE FOR AS REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT:
 - 1 EACH - CONTROLLER AND CABINET W/ ALL CONTENTS
 - 4 EACH - TRAFFIC SIGNAL POST
 - 1 EACH - MAST ARM AND POLE
 - 4 EACH - SIGNAL HEAD, 1-FACE, 3-SECTION, BRACKET MOUNTED
 - 2 EACH - SIGNAL HEAD, 1-FACE, 3-SECTION, MAST ARM MOUNTED
 - 8 EACH - PEDESTRIAN SIGNAL HEAD, 1-FACE, BRACKET MOUNTED

SCHEDULE OF QUANTITIES

ITEM NO.	DESCRIPTION	UNIT	TOTAL QUANTITY
42400100	PORTLAND CEMENT CONCRETE SIDEWALK, 4 INCH	SQ FT	86.1
44000600	SIDEWALK REMOVAL	SQ FT	101
50200400	ROCK EXCAVATION FOR STRUCTURES	CU YD	4.2
72000100	SIGN PANEL - TYPE 1	SQ FT	45
81012600	CONDUIT IN TRENCH, 2" DIA., PVC	FOOT	9
81012700	CONDUIT IN TRENCH, 2 1/2" DIA., PVC	FOOT	9
81012800	CONDUIT IN TRENCH, 3" DIA., PVC	FOOT	14
81013000	CONDUIT IN TRENCH, 4" DIA., PVC	FOOT	8
81021330	CONDUIT PUSHED, 2" DIA., PVC	FOOT	16
81021340	CONDUIT PUSHED, 2 1/2" DIA., PVC	FOOT	21
81021350	CONDUIT PUSHED, 3" DIA., PVC	FOOT	105
81021370	CONDUIT PUSHED, 4" DIA., PVC	FOOT	95
81400720	DOUBLE, HANDHOLE PORTLAND CEMENT CONCRETE	EACH	1
81900200	TRENCH AND BACKFILL FOR ELECTRICAL WORK	FOOT	36
85000200	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
85700205	FULL-ACTUATED CONTROLLER AND TYPE IV CABINET, SPECIAL	EACH	1
86200300	UNINTERRUPTABLE POWER SUPPLY, EXTENDED	EACH	1
86400100	TRANSCEIVER-FIBER OPTIC	EACH	1
87301225	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	1286
87301245	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	1490.5
87301805	ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2C	FOOT	391
87502270	TRAFFIC SIGNAL POST, PAINTED STEEL 12 FT.	EACH	2
87700250	STEEL MAST ARM AND ASSEMBLY AND POLE, 42 FT.	EACH	1
87800100	CONCRETE FOUNDATION, TYPE A	FOOT	6
87800150	CONCRETE FOUNDATION, TYPE C	FOOT	3.5
87800415	CONCRETE FOUNDATION, TYPE E, 36 INCH DIAMETER	FOOT	25
87900200	DRILL EXISTING HANDHOLE	EACH	8
88040070	SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	1
88040090	SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED	EACH	7
88200410	TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC	EACH	8
88700200	LIGHT DETECTOR	EACH	3
88700300	LIGHT DETECTOR AMPLIFIER	EACH	1
89502300	REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	1906.5
89502375	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
89502380	REMOVE EXISTING HANDHOLE	EACH	2
89502385	REMOVE EXISTING CONCRETE FOUNDATION	EACH	7
X8730027	ELECTRIC CABLE IN CONDUIT, GROUNDING, NO. 6 1C	FOOT	320.5
X8730250	ELECTRIC CABLE IN CONDUIT, COMMUNICATION, NO. 20 3/C, TWISTED, SHIELDED	FOOT	433.5
XX002852	RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM	EACH	1
XX006533	PEDESTRIAN SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, BRACKET MOUNTED, COUNTDOWN TIMER	EACH	8
XX006668	HANDHOLE TO BE ADJUSTED WITH NEW FRAME AND COVER	EACH	3
*3002038	STEEL MAST ARM AND ASSEMBLY AND POLE WITH DUAL MAST ARMS, 38 FT. AND 54FT.	EACH	1



TRAFFIC SIGNALS LEGEND

EXISTING	PROPOSED	DESCRIPTION
		CONTROLLER CABINET
		SERVICE INSTALLATION
		CONDUIT
		SIGNAL HEAD WITH BACKPLATE
		STEEL MAST ARM
		TRAFFIC SIGNAL POST
		HANDHOLE
		DOUBLE HANDHOLE
		PEDESTRIAN SIGNAL HEAD
		LIGHT DETECTOR
		CONFIRMATION BEACON

LEGEND

	SIDEWALK REMOVAL AND REPLACEMENT
--	----------------------------------

REVISIONS

NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 TRAFFIC SIGNAL PLAN
 FAP 68 (IL 23 NB)/COLUMBUS ST
 AND LAFAYETTE STREET
 SECTION 35,51 & 48 CS, 12)TS
 LA SALLE COUNTY

SCALE: VERT. 1" = 20'
 HORIZ. 1" = 20'

DATE 11/08

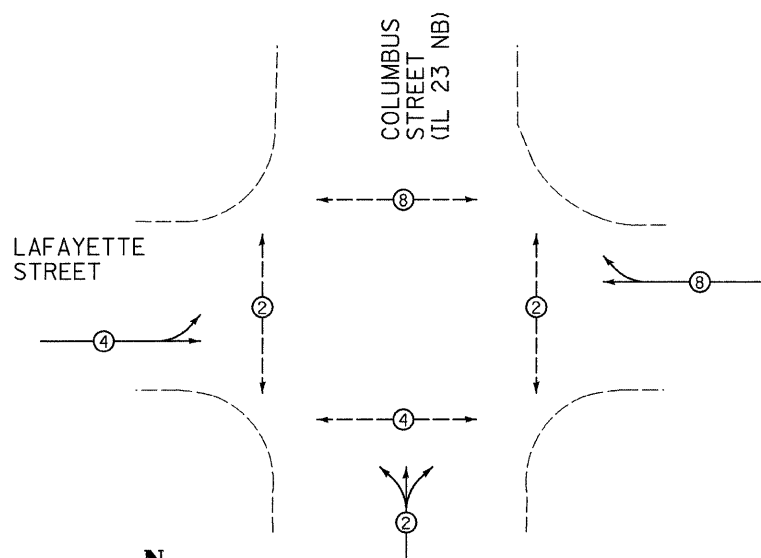
DRAWN BY ARR
 CHECKED BY JLS

PLOT DATE = 11/08
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 USER NAME = PAR

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
•	**	LA SALLE	48	38
STA.		TO STA.		
FED. ROAD DIST. NO. ILLINOIS		FED. AID PROJECT		
• FAP 68 & 68 ALT (IL 23 NB & SB) •• (35, 51 & 48 CS, 12)TS				

CONTROLLER SEQUENCE

NAME OF INTERSECTION: COLUMBUS STREET AND LAFAYETTE STREET
 CONTROLLER SPECIFIED: FULL-ACTUATED CONTROLLER, STANDARD SEQUENCE II, 8 PHASE, IN TYPE IV CABINET
 REFERRING TO STANDARD 857001, THE VEHICULAR AND PEDESTRIAN PHASES USED ARE DESIGNATED.



PROPOSED PLAN
NOT TO SCALE

LEGEND

- VEHICULAR MOVEMENT
- - -●- - - PEDESTRIAN MOVEMENT
- * NUMBER REFERS TO ASSOCIATED PHASE

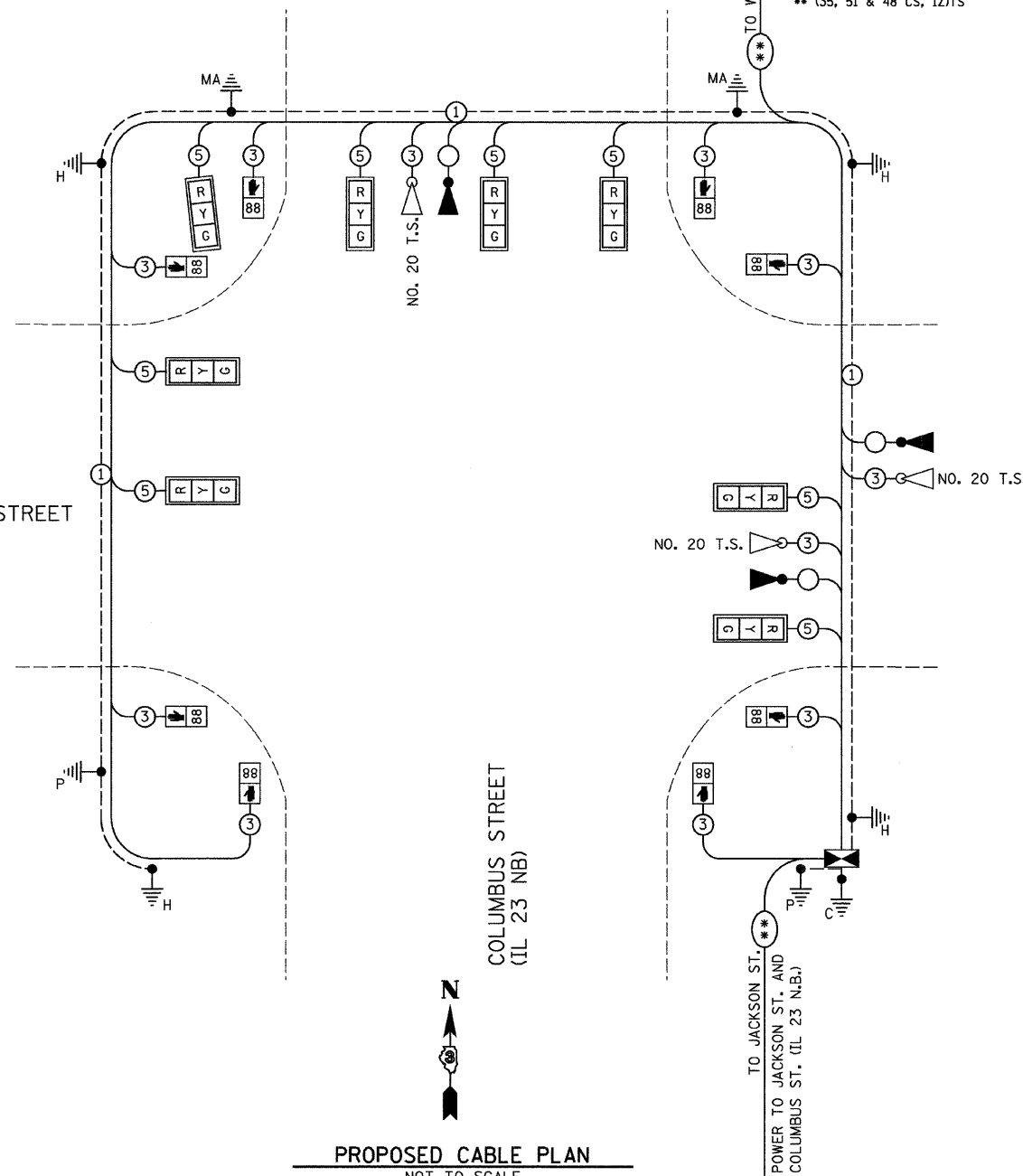
TRAFFIC SIGNALS LEGEND

⊙	DETNOTES NUMBER OF CONDUCTORS (NEW) ALL CABLE NO. 14 EXCEPT AS INDICATED
■	PROPOSED SERVICE INSTALLATION, TYPE B
⚡	PROPOSED CONTROLLER AND CABINET
⚡	EMERGENCY VEHICLE LIGHT DETECTOR
⚡	EMERGENCY VEHICLE CONFIRMATION BEACON
□	SIGNAL SECTION 12"
⊙	PROPOSED INTERCONNECT CABLE
88	PROPOSED WALK/DONT WALK COUNTDOWN SECTION
⊞	TRAFFIC SIGNAL BACKPLATE
—①—	GROUND CABLE IN CONDUIT, NO. 6 SOLID COPPER (GREEN)
⚡	GROUND ROD AT POST (P) OR MAST ARM (MA) OR CONTROLLER (C) OR SERVICE INSTALLATION (S) OR HANDHOLE (H)

LAFAYETTE STREET

COLUMBUS STREET (IL 23 NB)

PROPOSED CABLE PLAN
NOT TO SCALE



REVISIONS

NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 CABLE PLAN
 FAP 68 (IL 23 NB)/COLUMBUS ST
 AND LAFAYETTE STREET
 SECTION 35,51 & 48 CS, 12)TS
 LA SALLE COUNTY

SCALE: VERT. HORIZ.
 DATE 11/08
 DRAWN BY ARR
 CHECKED BY JLS

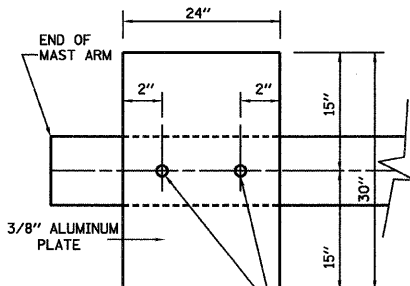
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 PLOT DATE = 11/08
 USER NAME = ARR

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	**	LA SALLE	48	39
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
* FAP 68 & 68 ALT (IL 23 NB & SB) ** (35, 51 & 48 CS, 12)TS				

ELECTRICAL LOAD FOR INTERSECTION				
STREET NAME	COMPONENT	NUMBER	WATTAGE EACH	BURNTIME %
COLUMBUS STREET (IL 23 SB)	RED	4	10	42
	YELLOW	4	19	5
	GREEN	4	14	53
		4	7	100
		4	5	53
LAFAYETTE STREET	RED	4	10	68
	YELLOW	4	19	5
	GREEN	4	14	27
		4	7	100
		4	5	27
TRAFFIC SIGNAL CABINET	CONTROLLER	1	6	100
	UPS	1	50	100
	EMERGENCY VEHICLE PREEMPT	3	--	--

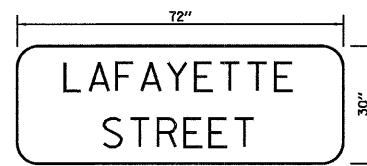
NOTE:

DAMPENING DEVICE SHALL CONSIST OF A 24" X 30" TYPE 1, UNPAINTED ALUMINUM SIGN STOCK MOUNTED HORIZONTALLY ON TOP OF MAST ARM WITH THE 30" LENGTH PERPENDICULAR TO THE ARM. COST OF THE DAMPENING DEVICE IS INCLUDED IN THE MAST ARM PAY ITEM.



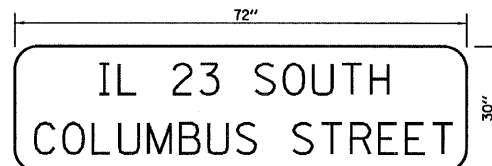
2-5/8" STAINLESS STEEL BOLTS THROUGH STAINLESS STEEL BANDING
 NOTE: MOUNT DAMPENING PLATE TO END OF EACH TRAFFIC SIGNAL MAST ARM.

DAMPENING PLATE DETAIL - TOP VIEW



TYPE ZZ SHEETING REQUIRED
 8" D SERIES LETTERS
 1 SIGNS REQUIRED = 15 SQ. FT. EACH
 = 15 SQ. FT. TOTAL

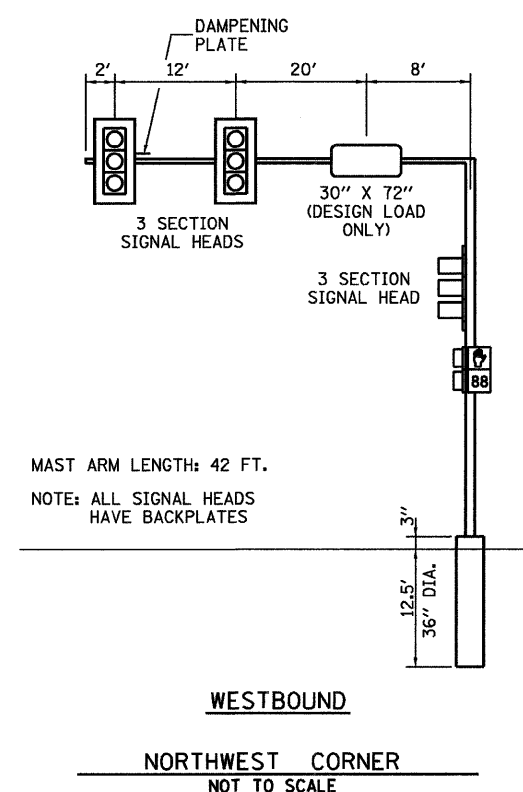
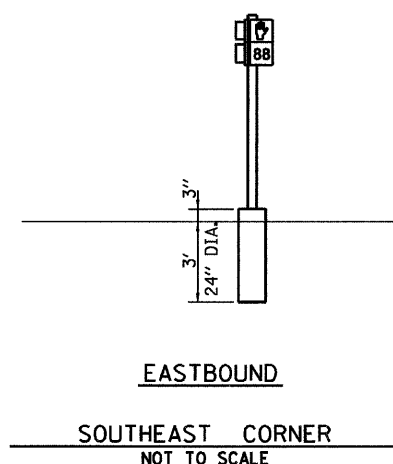
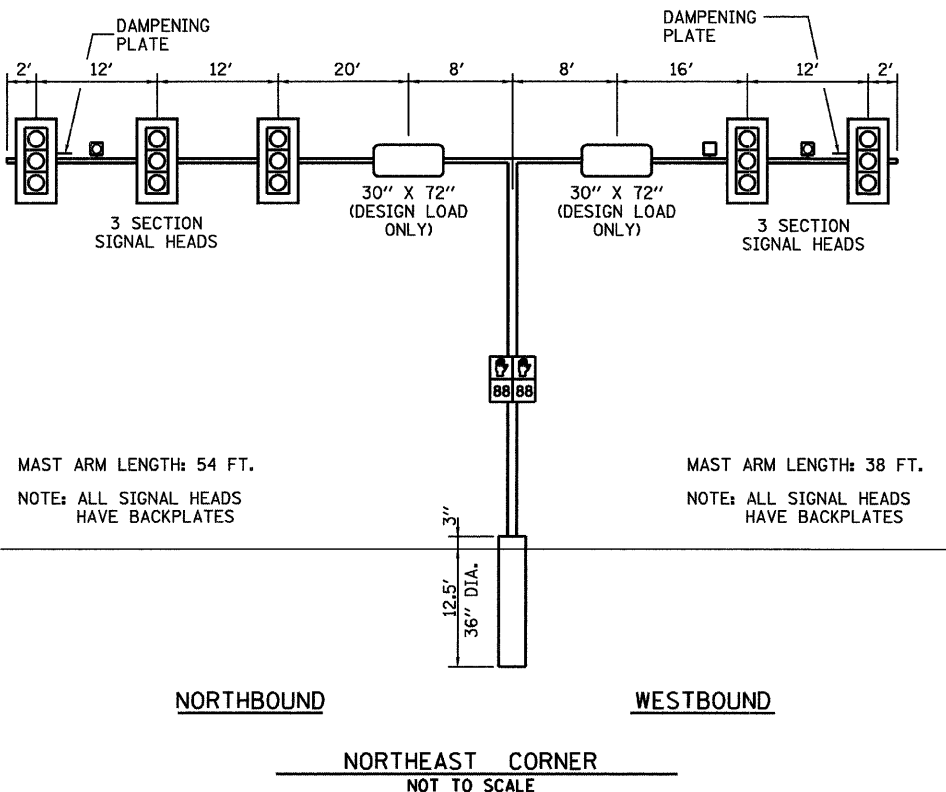
THIS STREET NAME SIGN SHALL BE PLACED ON THE MAST ARMS PARALLEL WITH LAFAYETTE STREET



TYPE ZZ SHEETING REQUIRED
 8" D SERIES LETTERS (STATE ROUTE LETTERING)
 6" D SERIES LETTERS (CITY STREET LETTERING)
 2 SIGNS REQUIRED = 15 SQ. FT. EACH
 = 30 SQ. FT. TOTAL

THIS STREET NAME SIGN SHALL BE PLACED ON THE MAST ARMS PARALLEL WITH COLUMBUS STREET

AGENCY RESPONSIBLE FOR TRAFFIC SIGNAL ENERGY CHARGES:
 CITY OF OTTAWA



COLUMBUS STREET (IL 23 NB) / LAFAYETTE STREET

MAST ARM AND POLE SHALL BE DESIGNED FOR THE WORST CASE LOADING CONDITION WHEREBY ALL THE SIGNAL HEADS ARE LOCATED 2 FEET FURTHER OUT THAN POSITION SHOWN. HOWEVER THE INTENT IS THAT ALL SIGNAL HEADS BE CENTERED ABOVE THE LANES.

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 TRAFFIC SIGNAL DETAILS
 FAP 68 (IL 23 NB)/COLUMBUS ST
 AND LAFAYETTE STREET
 SECTION 35,51 & 48 CS, 12)TS
 LA SALLE COUNTY

SCALE: VERT. _____
 HORIZ. _____
 DATE 11/08
 DRAWN BY ARR
 CHECKED BY JLS

PLOT DATE = 11/08
 FILE NAME = D066769-SHT-DETAILS-COLU-LAFAD.dgn
 USER = ARR

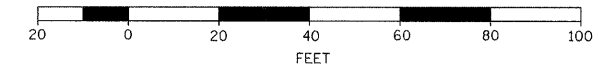
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	**	LA SALLE	48	40

STA. TO STA.
 FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT
 • FAP 68 & 68 ALT (IL 23 NB & SB)
 ** (35, 51 & 48 CS, 12)TS

CONSTRUCTION NOTES:

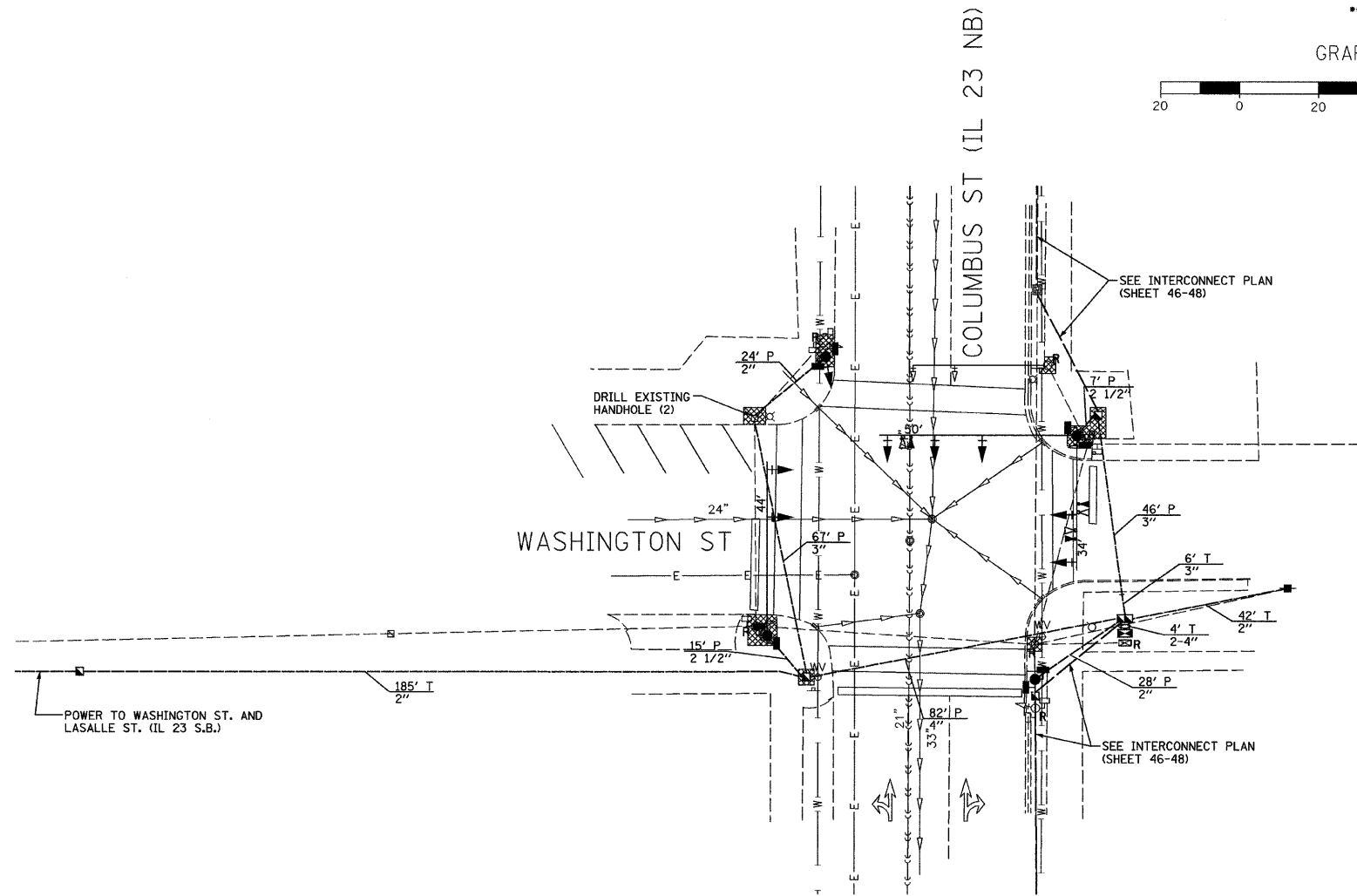
- REMOVE AND REPLACE CONTROLLER AND CABINET ON NEW FOUNDATION.
- INSTALL UNINTERRUPTABLE POWER SUPPLY.
- REMOVE EXISTING TRAFFIC SIGNAL POST AND MAST ARM AND POLE ON NORTHEAST CORNER AND REPLACE WITH DUAL MAST ARM AND POLE ON NEW FOUNDATION AS SHOWN.
- REMOVE EXISTING TRAFFIC SIGNAL POST ON SOUTHWEST CORNER AND REPLACE WITH MAST ARM AND POLE ON NEW FOUNDATION AS SHOWN.
- REMOVE AND REPLACE TRAFFIC SIGNAL POSTS ON SOUTHEAST AND NORTHWEST CORNERS ON NEW FOUNDATIONS AS SHOWN.
- ADJUST THE HANDHOLE ON THE NORTHWEST CORNER WITH A NEW FRAME AND LID.
- NEW AND EXISTING HANDHOLES SHALL BE UTILIZED AS SHOWN.
- ALL EXISTING SIGNAL CABLE IN CONDUIT SHALL BE REMOVED.
- EXISTING FOUNDATIONS SHALL BE REMOVED AS SHOWN.
- REMOVAL OF THE FOLLOWING ITEMS SHALL BE PAID FOR AS REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT:
 - 1 EACH - CONTROLLER AND CABINET W/ ALL CONTENTS
 - 4 EACH - TRAFFIC SIGNAL POST
 - 1 EACH - MAST ARM AND POLE
 - 4 EACH - SIGNAL HEAD, 1-FACE, 3-SECTION, BRACKET MOUNTED
 - 2 EACH - SIGNAL HEAD, 1-FACE, 3-SECTION, MAST ARM MOUNTED
 - 8 EACH - PEDESTRIAN SIGNAL HEAD, 1-FACE, BRACKET MOUNTED

GRAPHIC SCALE



SCHEDULE OF QUANTITIES

ITEM NO.	DESCRIPTION	UNIT	TOTAL QUANTITY
42400100	PORTLAND CEMENT CONCRETE SIDEWALK, 4 INCH	SQ FT	192.9
44000600	SIDEWALK REMOVAL	SQ FT	219.6
50200400	ROCK EXCAVATION FOR STRUCTURES	CU YD	3.4
72000100	SIGN PANEL - TYPE 1	SQ FT	45
80500200	SERVICE INSTALLATION, TYPE B	EACH	1
81012600	CONDUIT IN TRENCH, 2" DIA., PVC	FOOT	227
81012800	CONDUIT IN TRENCH, 3" DIA., PVC	FOOT	6
81013000	CONDUIT IN TRENCH, 4" DIA., PVC	FOOT	8
81021330	CONDUIT PUSHED, 2" DIA., PVC	FOOT	52
81021340	CONDUIT PUSHED, 2 1/2" DIA., PVC	FOOT	22
81021350	CONDUIT PUSHED, 3" DIA., PVC	FOOT	113
81021370	CONDUIT PUSHED, 4" DIA., PVC	FOOT	82
81400700	HANDHOLE, PORTLAND CEMENT CONCRETE	EACH	2
81400720	DOUBLE HANDHOLE, PORTLAND CEMENT CONCRETE	EACH	1
81900200	TRENCH AND BACKFILL FOR ELECTRICAL WORK	FOOT	237
85000200	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
85700205	FULL-ACTUATED CONTROLLER AND TYPE IV CABINET, SPECIAL	EACH	1
86200300	UNINTERRUPTABLE POWER SUPPLY, EXTENDED	EACH	1
86400100	TRANSCEIVER-FIBER OPTIC	EACH	1
87301225	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	1054
87301245	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	1334.5
87301805	ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2C	FOOT	65
87502270	TRAFFIC SIGNAL POST, PAINTED STEEL 12 FT.	EACH	1
87502310	TRAFFIC SIGNAL POST, PAINTED STEEL 16 FT.	EACH	1
87700260	STEEL MAST ARM AND ASSEMBLY AND POLE, 44 FT.	EACH	1
87800100	CONCRETE FOUNDATION, TYPE A	FOOT	6
87800150	CONCRETE FOUNDATION, TYPE C	FOOT	3.5
87800415	CONCRETE FOUNDATION, TYPE E, 36 INCH DIAMETER	FOOT	23
87900200	DRILL EXISTING HANDHOLE	EACH	2
88040070	SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	1
88040090	SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED	EACH	7
88200410	TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC	EACH	8
88700200	LIGHT DETECTOR	EACH	3
88700300	LIGHT DETECTOR AMPLIFIER	EACH	1
89502300	REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	1653
89502375	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
89502385	REMOVE EXISTING HANDHOLE	EACH	1
89502385	REMOVE EXISTING CONCRETE FOUNDATION	EACH	6
X8730027	ELECTRIC CABLE IN CONDUIT, GROUNDING, NO. 6 1C	FOOT	371.5
X8730250	ELECTRIC CABLE IN CONDUIT, COMMUNICATION, NO. 20 3/C, TWISTED, SHIELDED	FOOT	427.5
XX002852	RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM	EACH	1
XX006533	PEDESTRIAN SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, BRACKET MOUNTED, COUNTDOWN TIMER	EACH	8
XX006668	HANDHOLE TO BE ADJUSTED WITH NEW FRAME AND COVER	EACH	1
*3002036	STEEL MAST ARM AND ASSEMBLY AND POLE WITH DUAL MAST ARMS, 34 FT. AND 50 FT.	EACH	1



TRAFFIC SIGNALS LEGEND

EXISTING	PROPOSED	
		CONTROLLER CABINET
		SERVICE INSTALLATION
		CONDUIT
		SIGNAL HEAD WITH BACKPLATE
		STEEL MAST ARM
		TRAFFIC SIGNAL POST
		HANDHOLE
		DOUBLE HANDHOLE
		PEDESTRIAN SIGNAL HEAD
		LIGHT DETECTOR
		CONFIRMATION BEACON

LEGEND

	SIDEWALK REMOVAL AND REPLACEMENT
--	----------------------------------

REVISIONS

NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 TRAFFIC SIGNAL PLAN
 FAP 68 (IL 23 NB)/COLUMBUS ST
 AND WASHINGTON STREET
 SECTION 35,51 & 48 CS, 12)TS
 LA SALLE COUNTY

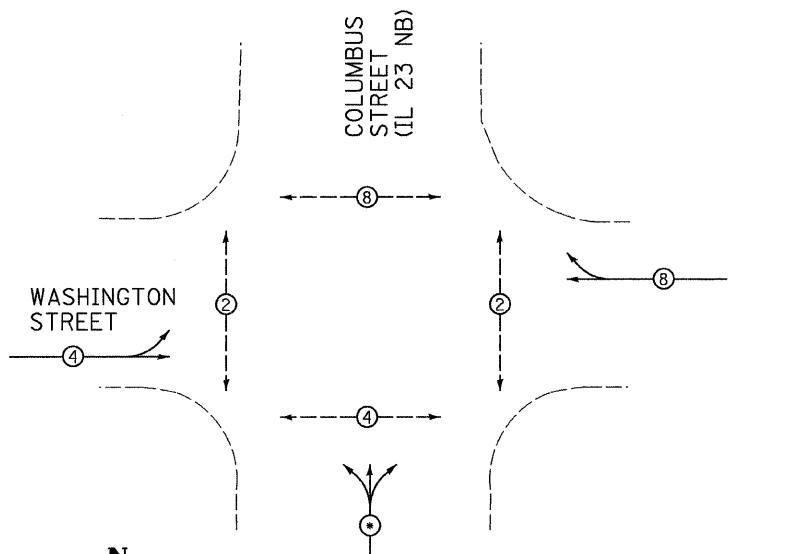
SCALE: VERT. 1" = 20'
 HORIZ. 1" = 20'
 DATE 11/08
 DRAWN BY ARR
 CHECKED BY JLS

PLOT DATE = 11/08
 FILE NAME = D:\66769\99-SHT-TS-COLLU-WASH.DGN
 USER = ARR

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	**	LA SALLE	48	41
STA. TO STA.				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				
* FAP 68 & 68 ALT (IL 23 NB & SB)				
** (35, 51 & 48 CS, 12)TS				

CONTROLLER SEQUENCE

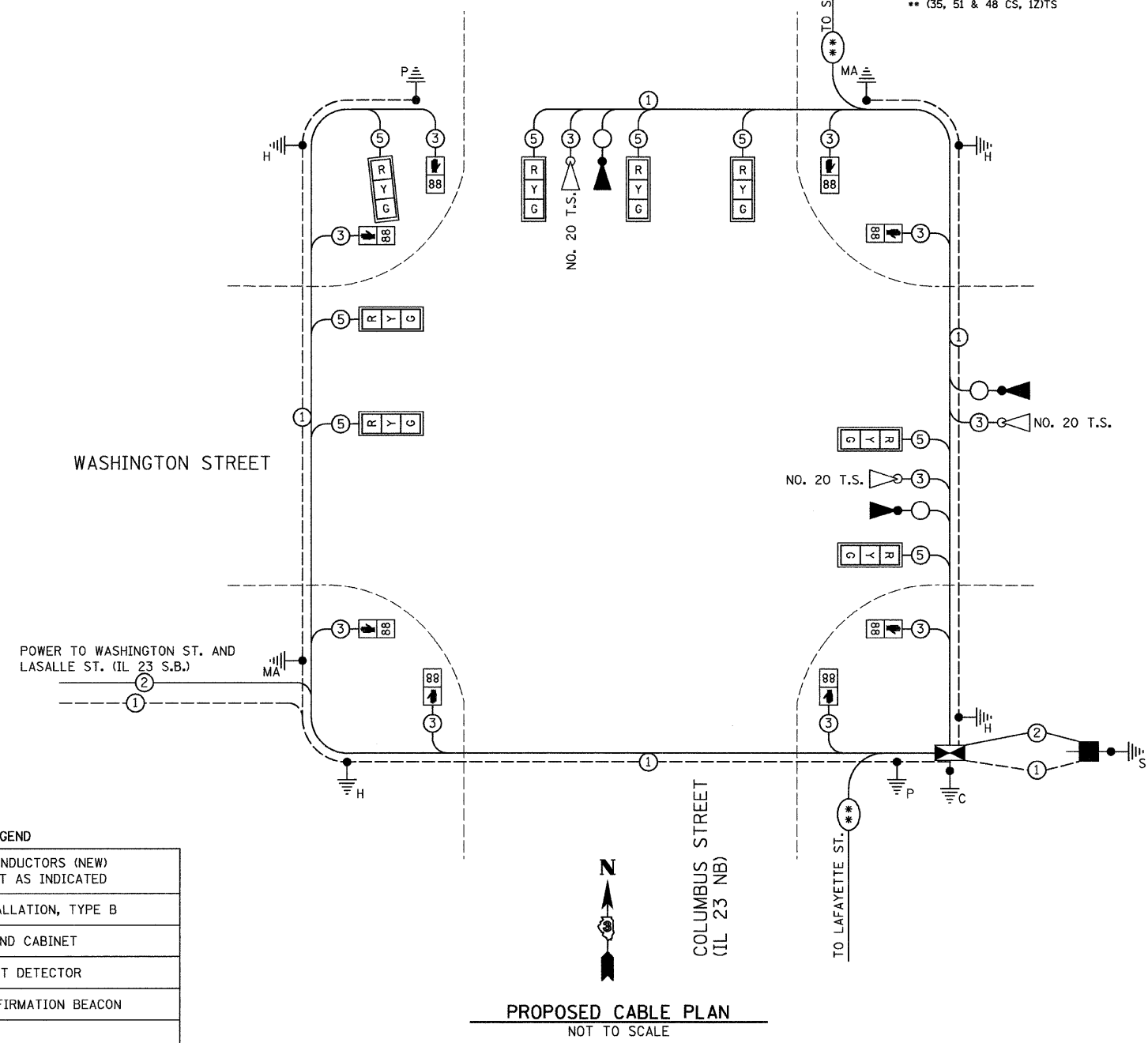
NAME OF INTERSECTION: COLUMBUS STREET AND WASHINGTON STREET
 CONTROLLER SPECIFIED: FULL-ACTUATED CONTROLLER, STANDARD SEQUENCE II, 8 PHASE, IN TYPE IV CABINET
 REFERRING TO STANDARD 857001, THE VEHICULAR AND PEDESTRIAN PHASES USED ARE DESIGNATED.



PROPOSED PLAN
NOT TO SCALE

LEGEND

- VEHICULAR MOVEMENT
- - -●- - - PEDESTRIAN MOVEMENT
- * NUMBER REFERS TO ASSOCIATED PHASE



PROPOSED CABLE PLAN
NOT TO SCALE

TRAFFIC SIGNALS LEGEND

⊙	DETNOTES NUMBER OF CONDUCTORS (NEW) ALL CABLE NO. 14 EXCEPT AS INDICATED
■	PROPOSED SERVICE INSTALLATION, TYPE B
⊠	PROPOSED CONTROLLER AND CABINET
◁	EMERGENCY VEHICLE LIGHT DETECTOR
▶	EMERGENCY VEHICLE CONFIRMATION BEACON
□	SIGNAL SECTION 12"
⊛	PROPOSED INTERCONNECT CABLE
Ⓢ	PROPOSED WALK/DONT WALK COUNTDOWN SECTION
Ⓜ	TRAFFIC SIGNAL BACKPLATE
—①—	GROUND CABLE IN CONDUIT, NO. 6 SOLID COPPER (GREEN)
Ⓧ	GROUND ROD AT POST (P) OR MAST ARM (MA) OR CONTROLLER (C) OR SERVICE INSTALLATION (S) OR HANDHOLE (H)

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
CABLE PLAN
 FAP 68 (IL 23 NB)/COLUMBUS ST
 AND WASHINGTON STREET
 SECTION 35,51 & 48 CS, 12)TS
 LA SALLE COUNTY

SCALE: VERT. _____
 HORIZ. _____
 DATE 11/08
 DRAWN BY ARR
 CHECKED BY JLS

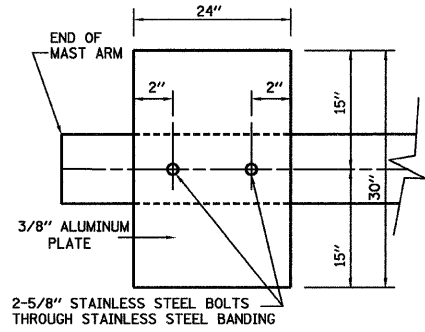
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	**	LA SALLE	48	42

FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT
 STA. TO STA.
 * FAP 68 & 68 ALT (IL 23 NB & SB)
 ** (35, 51 & 48 CS, 12)TS

STREET NAME	COMPONENT	NUMBER	WATTAGE EACH	BURNTIME %
COLUMBUS STREET (IL 23 NB)	RED	4	10	42
	YELLOW	4	19	5
	GREEN	4	14	53
		4	7	100
		4	5	53
WASHINGTON STREET	RED	4	10	68
	YELLOW	4	19	5
	GREEN	4	14	27
		4	7	100
		4	5	27
TRAFFIC SIGNAL CABINET	CONTROLLER	1	6	100
	UPS	1	50	100
	EMERGENCY VEHICLE PREEMPT	3	--	--

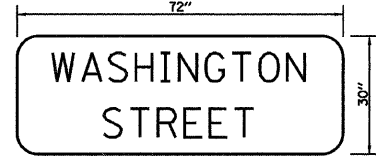
AGENCY RESPONSIBLE FOR TRAFFIC SIGNAL ENERGY CHARGES:
 CITY OF OTTAWA

NOTE:
 DAMPENING DEVICE SHALL CONSIST OF A 24" X 30" TYPE 1, UNPAINTED ALUMINUM SIGN STOCK MOUNTED HORIZONTALLY ON TOP OF MAST ARM WITH THE 30" LENGTH PERPENDICULAR TO THE ARM. COST OF THE DAMPENING DEVICE IS INCLUDED IN THE MAST ARM PAY ITEM.



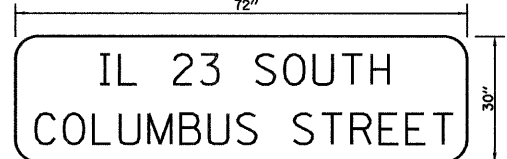
NOTE:
 MOUNT DAMPENING PLATE TO END OF EACH TRAFFIC SIGNAL MAST ARM.

DAMPENING PLATE DETAIL - TOP VIEW



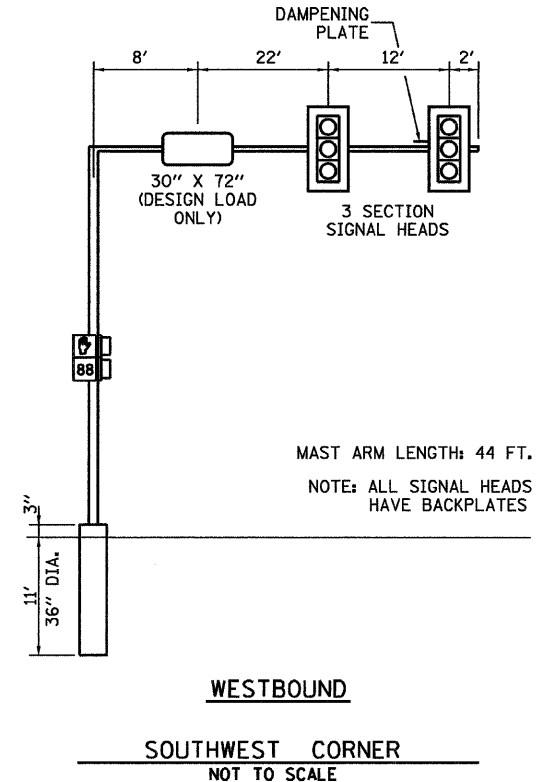
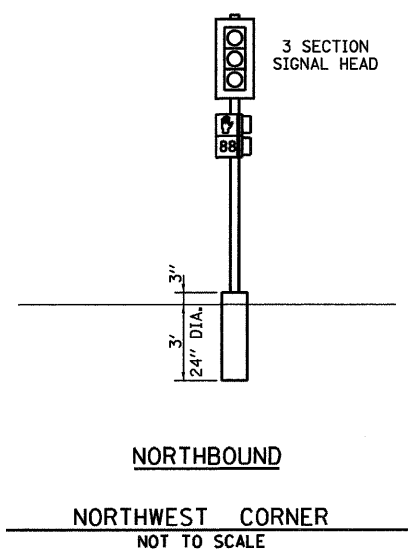
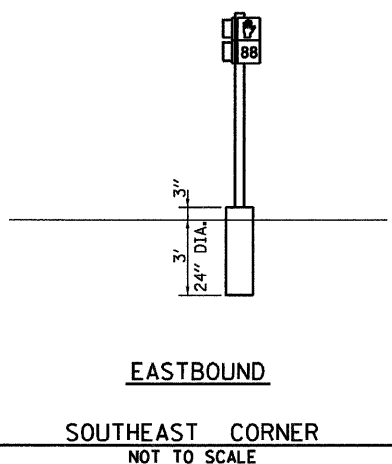
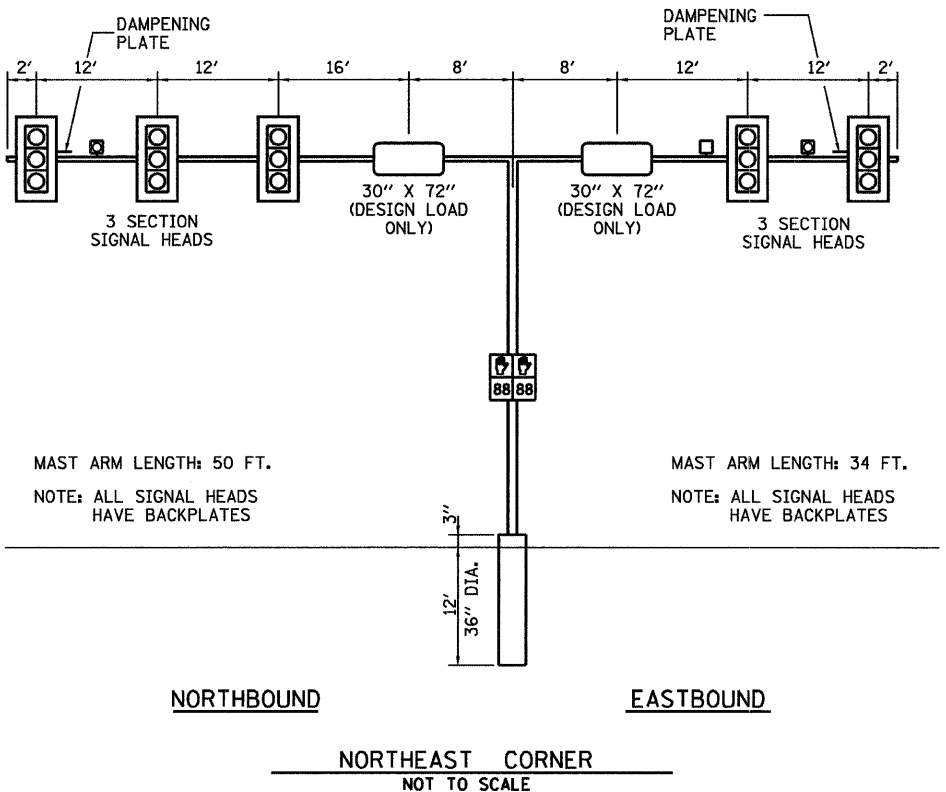
TYPE ZZ SHEETING REQUIRED
 8" D SERIES LETTERS
 1 SIGNS REQUIRED = 15 SQ. FT. EACH
 = 15 SQ. FT. TOTAL

THIS STREET NAME SIGN SHALL BE PLACED ON THE MAST ARMS PARALLEL WITH WASHINGTON STREET



TYPE ZZ SHEETING REQUIRED
 8" D SERIES LETTERS (STATE ROUTE LETTERING)
 6" D SERIES LETTERS (CITY STREET LETTERING)
 2 SIGNS REQUIRED = 15 SQ. FT. EACH
 = 30 SQ. FT. TOTAL

THIS STREET NAME SIGN SHALL BE PLACED ON THE MAST ARMS PARALLEL WITH COLUMBUS STREET



MAST ARM AND POLE SHALL BE DESIGNED FOR THE WORST CASE LOADING CONDITION WHEREBY ALL THE SIGNAL HEADS ARE LOCATED 2 FEET FURTHER OUT THAN POSITION SHOWN. HOWEVER THE INTENT IS THAT ALL SIGNAL HEADS BE CENTERED ABOVE THE LANES.

NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 TRAFFIC SIGNAL DETAILS
 FAP 68 (IL 23 NB)/COLUMBUS ST
 AND WASHINGTON STREET
 SECTION 35.51 & 48 CS, 12)TS
 LA SALLE COUNTY

SCALE: VERT. DATE 11/08
 HORIZ. DRAWN BY ARR
 CHECKED BY JLS

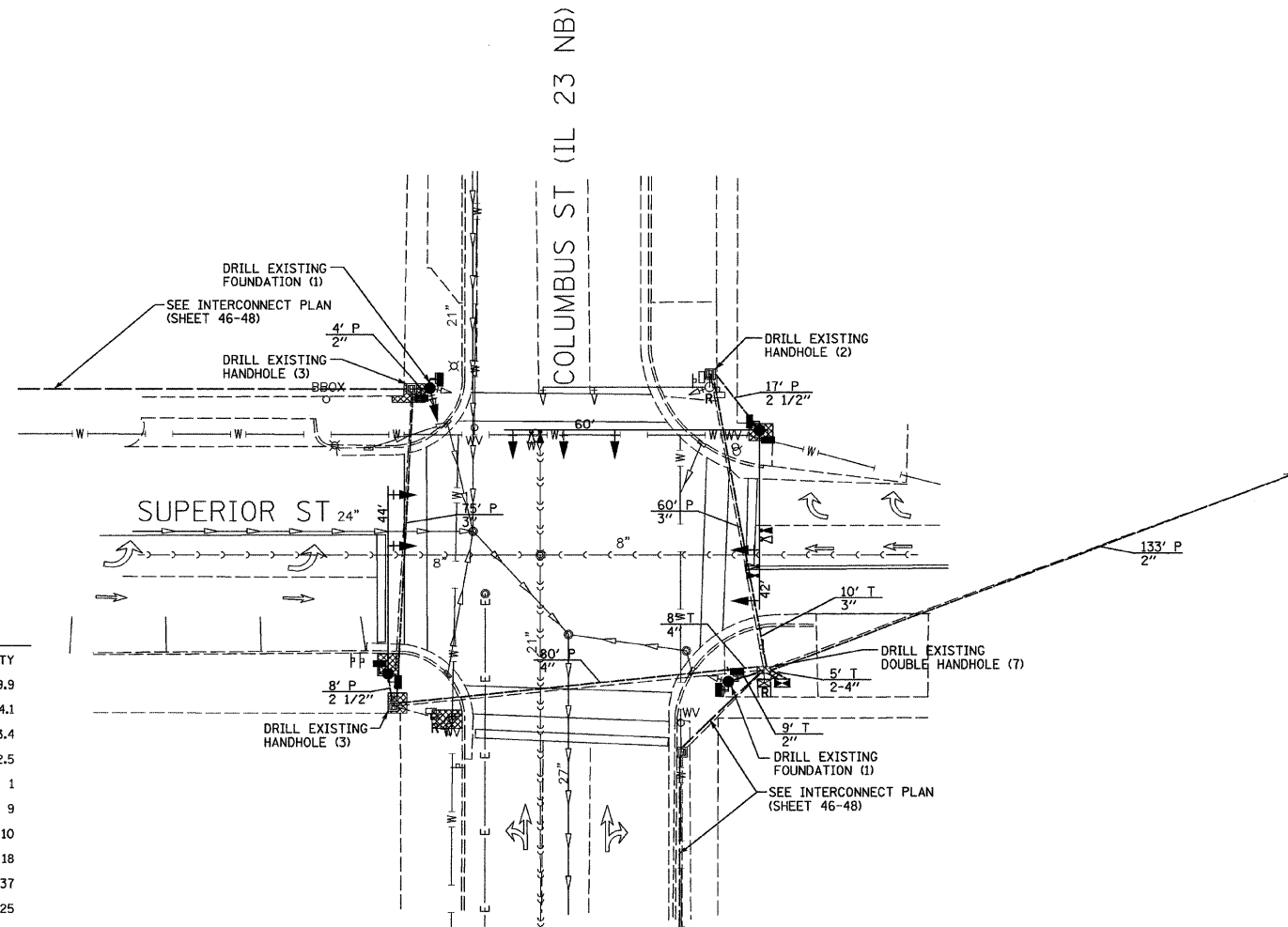
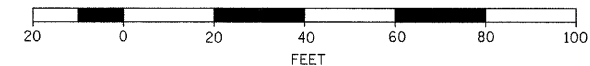
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 USER = JLS
 USER NAME = ARR

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	**	LA SALLE	48	43
STA.		TO STA.		
FED. ROAD DIST. NO. 1		ILLINOIS FED. AID PROJECT		
* FAP 68 & 68 ALT (IL 23 NB & SB) ** (35, 51 & 48 CS, 12)TS				

CONSTRUCTION NOTES:

- REMOVE AND REPLACE CONTROLLER AND CABINET ON NEW FOUNDATION.
- INSTALL UNINTERRUPTABLE POWER SUPPLY.
- REMOVE EXISTING MAST ARM AND POLE ON NORTHEAST CORNER AND REPLACE WITH DUAL MAST ARM AND POLE ON NEW FOUNDATION AS SHOWN.
- REMOVE EXISTING TRAFFIC SIGNAL POST ON SOUTHWEST CORNER AND REPLACE WITH MAST ARM AND POLE ON NEW FOUNDATION AS SHOWN.
- REMOVE AND REPLACE TRAFFIC SIGNAL POSTS ON SOUTHEAST AND NORTHWEST CORNERS ON EXISTING FOUNDATIONS AS SHOWN. CONTRACTOR SHALL MEASURE AND PROVIDE BOLT PATTERN DETAILS TO POST SUPPLIER PRIOR TO FABRICATION TO ENSURE COMPATABILITY.
- EXISTING HANDHOLES SHALL BE UTILIZED AS SHOWN.
- ALL EXISTING SIGNAL CABLE IN CONDUIT SHALL BE REMOVED.
- EXISTING FOUNDATIONS SHALL BE REMOVED AS SHOWN.
- REMOVAL OF THE FOLLOWING ITEMS SHALL BE PAID FOR AS REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT:
 - 1 EACH - CONTROLLER AND CABINET W/ ALL CONTENTS
 - 3 EACH - TRAFFIC SIGNAL POST
 - 1 EACH - MAST ARM AND POLE
 - 5 EACH - SIGNAL HEAD, 1-FACE, 3-SECTION, BRACKET MOUNTED
 - 2 EACH - SIGNAL HEAD, 1-FACE, 3-SECTION, MAST ARM MOUNTED
 - 8 EACH - PEDESTRIAN SIGNAL HEAD, 1-FACE, BRACKET MOUNTED

GRAPHIC SCALE



SCHEDULE OF QUANTITIES

ITEM NO.	DESCRIPTION	UNIT	TOTAL QUANTITY
42400100	PORTLAND CEMENT CONCRETE SIDEWALK, 4 INCH	SQ FT	99.9
44000600	SIDEWALK REMOVAL	SQ FT	114.1
50200400	ROCK EXCAVATION FOR STRUCTURES	CU YD	3.4
72000100	SIGN PANEL - TYPE 1	SQ FT	42.5
80500200	SERVICE INSTALLATION, TYPE B	EACH	1
81012600	CONDUIT IN TRENCH, 2" DIA., PVC	FOOT	9
81012800	CONDUIT IN TRENCH, 3" DIA., PVC	FOOT	10
81013000	CONDUIT IN TRENCH, 4" DIA., PVC	FOOT	18
81021330	CONDUIT PUSHED, 2" DIA., PVC	FOOT	137
81021340	CONDUIT PUSHED, 2 1/2" DIA., PVC	FOOT	25
81021350	CONDUIT PUSHED, 3" DIA., PVC	FOOT	135
81021370	CONDUIT PUSHED, 4" DIA., PVC	FOOT	80
81900200	TRENCH AND BACKFILL FOR ELECTRICAL WORK	FOOT	32
85000200	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
85700205	FULL-ACTUATED CONTROLLER AND TYPE IV CABINET, SPECIAL	EACH	1
86200300	UNINTERRUPTABLE POWER SUPPLY, EXTENDED	EACH	1
86400100	TRANSCEIVER-FIBER OPTIC	EACH	1
87301225	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	1066
87301245	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	1520.5
87301805	ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2C	FOOT	157
87502270	TRAFFIC SIGNAL POST, PAINTED STEEL 12 FT.	EACH	1
87502310	TRAFFIC SIGNAL POST, PAINTED STEEL 16 FT.	EACH	1
87700260	STEEL MAST ARM AND ASSEMBLY AND POLE, 44 FT.	EACH	1
87800150	CONCRETE FOUNDATION, TYPE C	FOOT	3.5
87800415	CONCRETE FOUNDATION, TYPE E, 36 INCH DIAMETER	FOOT	24
87900100	DRILL EXISTING FOUNDATION	EACH	2
87900200	DRILL EXISTING HANDHOLE	EACH	15
88040070	SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	1
88040090	SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED	EACH	7
88200410	TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC	EACH	8
88700200	LIGHT DETECTOR	EACH	3
88700300	LIGHT DETECTOR AMPLIFIER	EACH	1
89502300	REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	1951
89502375	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
89502385	REMOVE EXISTING CONCRETE FOUNDATION	EACH	3
X8730027	ELECTRIC CABLE IN CONDUIT, GROUNDING, NO. 6 1C	FOOT	459.5
X8730250	ELECTRIC CABLE IN CONDUIT, COMMUNICATION, NO. 20 3/C, TWISTED, SHIELDED	FOOT	540.5
XX002852	RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM	EACH	1
XX006533	PEDESTRIAN SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, BRACKET MOUNTED, COUNTDOWN TIMER	EACH	8
*3002041	STEEL MAST ARM AND ASSEMBLY AND POLE WITH DUAL MAST ARMS, 42 FT. AND 60 FT.	EACH	1

TRAFFIC SIGNALS LEGEND

EXISTING	PROPOSED	
		CONTROLLER CABINET
		SERVICE INSTALLATION
		CONDUIT
		SIGNAL HEAD WITH BACKPLATE
		STEEL MAST ARM
		TRAFFIC SIGNAL POST
		HANDHOLE
		DOUBLE HANDHOLE
		PEDESTRIAN SIGNAL HEAD
		LIGHT DETECTOR
		CONFIRMATION BEACON

LEGEND

	SIDEWALK REMOVAL AND REPLACEMENT
--	----------------------------------

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 TRAFFIC SIGNAL PLAN
 FAP 68 (IL 23 NB)/COLUMBUS ST
 AND SUPERIOR STREET
 SECTION 35,51 & 48 CS, 12)TS
 LA SALLE COUNTY

SCALE: VERT. 1" = 20'
 HORIZ. 1" = 20'
 DATE 11/08
 DRAWN BY ARR
 CHECKED BY JLS

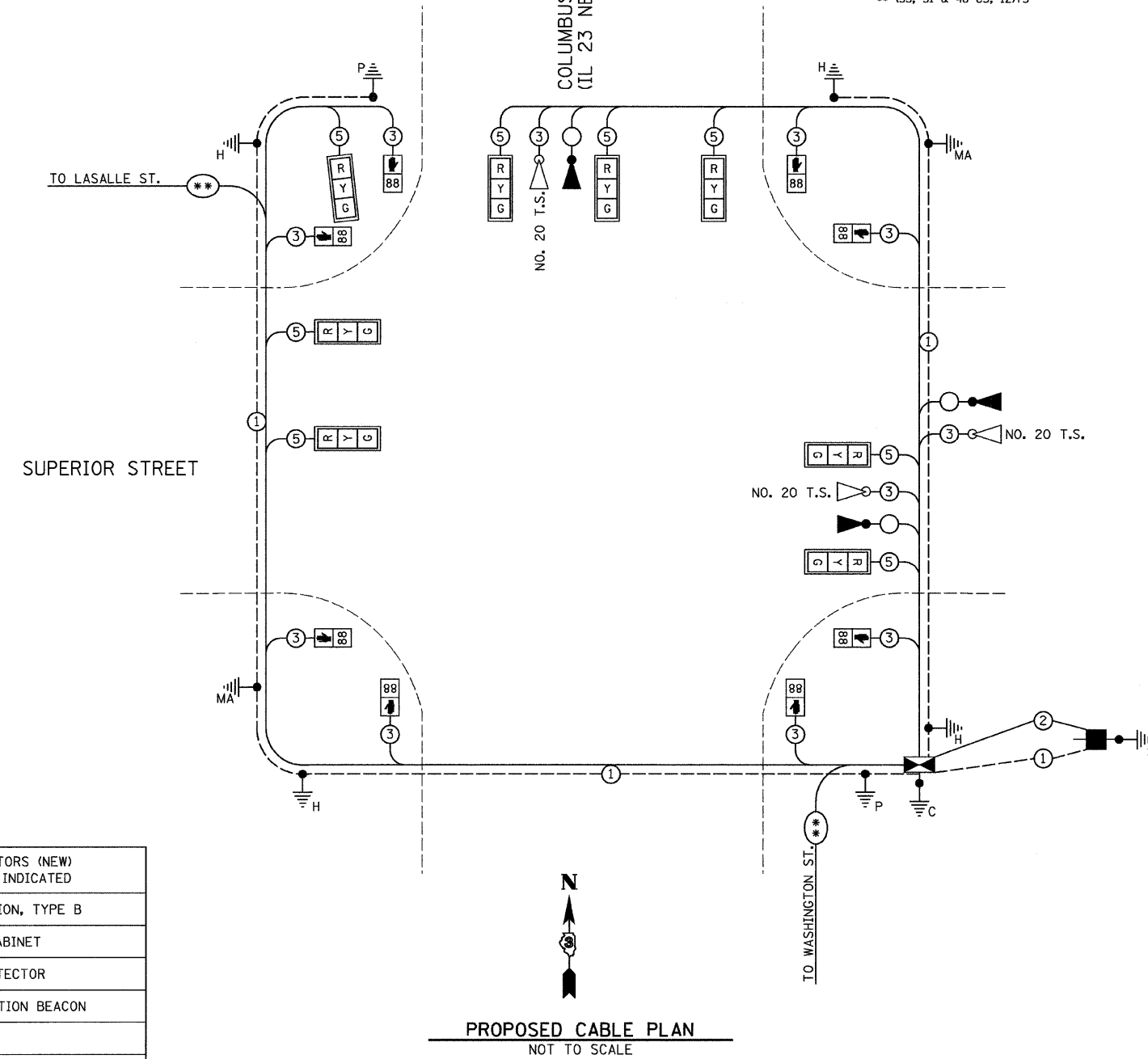
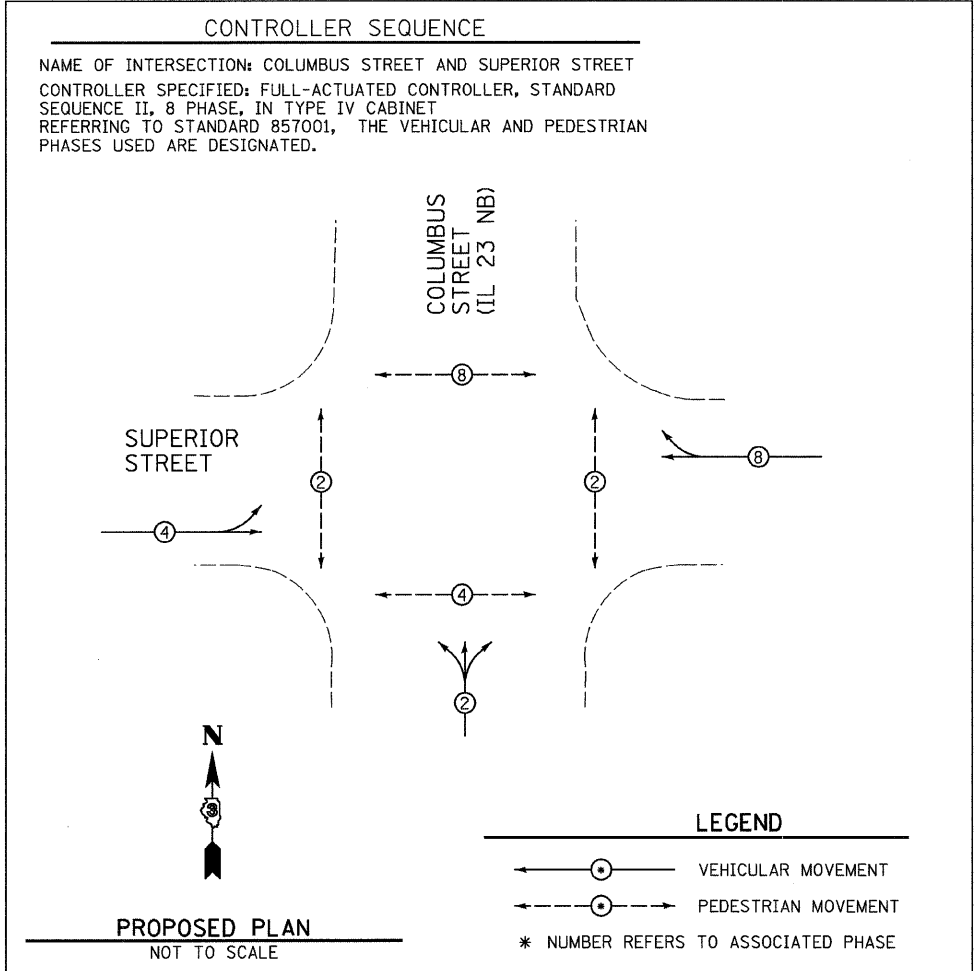
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 USER NAME = ARR

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	**	LA SALLE	48	44

STA. TO STA.

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

- FAP 68 & 68 ALT (IL 23 NB & SB)
- ** (35, 51 & 48 CS, 12)TS



TRAFFIC SIGNALS LEGEND

	DETNOTES NUMBER OF CONDUCTORS (NEW) ALL CABLE NO. 14 EXCEPT AS INDICATED
	PROPOSED SERVICE INSTALLATION, TYPE B
	PROPOSED CONTROLLER AND CABINET
	EMERGENCY VEHICLE LIGHT DETECTOR
	EMERGENCY VEHICLE CONFIRMATION BEACON
	SIGNAL SECTION 12"
	PROPOSED INTERCONNECT CABLE
	PROPOSED WALK/DONT WALK COUNTDOWN SECTION
	TRAFFIC SIGNAL BACKPLATE
	GROUND CABLE IN CONDUIT, NO. 6 SOLID COPPER (GREEN)
	GROUND ROD AT POST (P) OR MAST ARM (MA) OR CONTROLLER (C) OR SERVICE INSTALLATION (S) OR HANDHOLE (H)

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 CABLE PLAN
 FAP 68 (IL 23 NB)/COLUMBUS ST
 AND SUPERIOR STREET
 SECTION 35,51 & 48 CS, 12)TS
 LA SALLE COUNTY

SCALE: VERT. HORIZ.
 DATE 11/08

DRAWN BY ARR
 CHECKED BY JLS

PLOT DATE = 11/08
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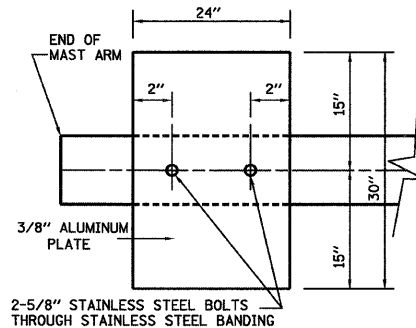
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	**	LA SALLE	48	45
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
* FAP 68 & 68 ALT (IL 23 NB & SB)				
** (35, 51 & 48 CS, 12)TS				

ELECTRICAL LOAD FOR INTERSECTION				
STREET NAME	COMPONENT	NUMBER	WATTAGE EACH	BURNTIME %
COLUMBUS STREET (IL 23 NB)	RED	4	10	42
	YELLOW	4	19	5
	GREEN	4	14	53
		4	7	100
		4	5	53
SUPERIOR STREET	RED	4	10	68
	YELLOW	4	19	5
	GREEN	4	14	27
		4	7	100
		4	5	27
TRAFFIC SIGNAL CABINET	CONTROLLER	1	6	100
	UPS	1	50	100
	EMERGENCY VEHICLE PREEMPT	3	--	--

AGENCY RESPONSIBLE FOR TRAFFIC SIGNAL ENERGY CHARGES:
CITY OF OTTAWA

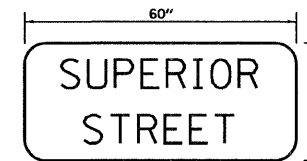
NOTE:

DAMPENING DEVICE SHALL CONSIST OF A 24" X 30" TYPE 1, UNPAINTED ALUMINUM SIGN STOCK MOUNTED HORIZONTALLY ON TOP OF MAST ARM WITH THE 30" LENGTH PERPENDICULAR TO THE ARM. COST OF THE DAMPENING DEVICE IS INCLUDED IN THE MAST ARM PAY ITEM.



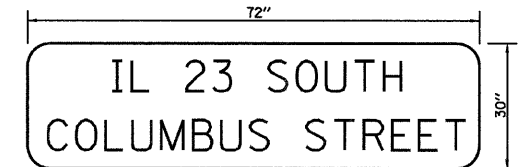
NOTE:
MOUNT DAMPENING PLATE TO END OF EACH TRAFFIC SIGNAL MAST ARM.

DAMPENING PLATE DETAIL - TOP VIEW



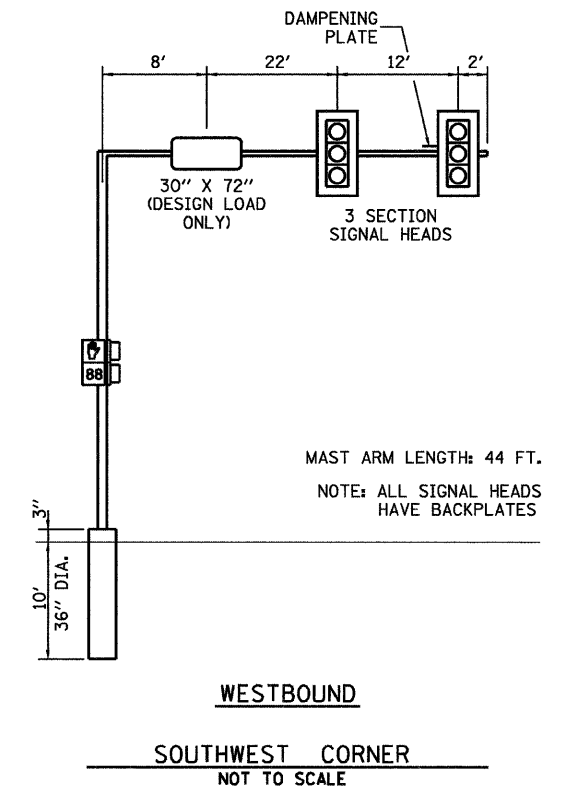
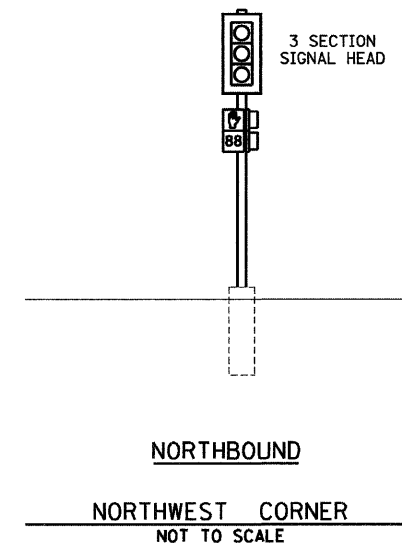
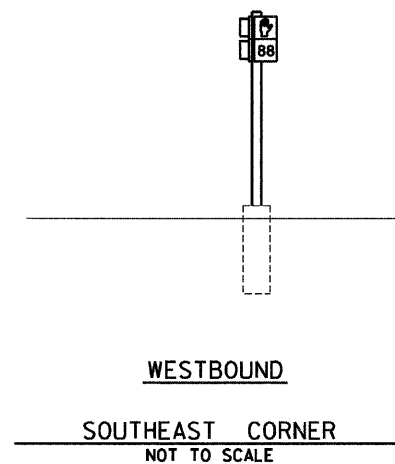
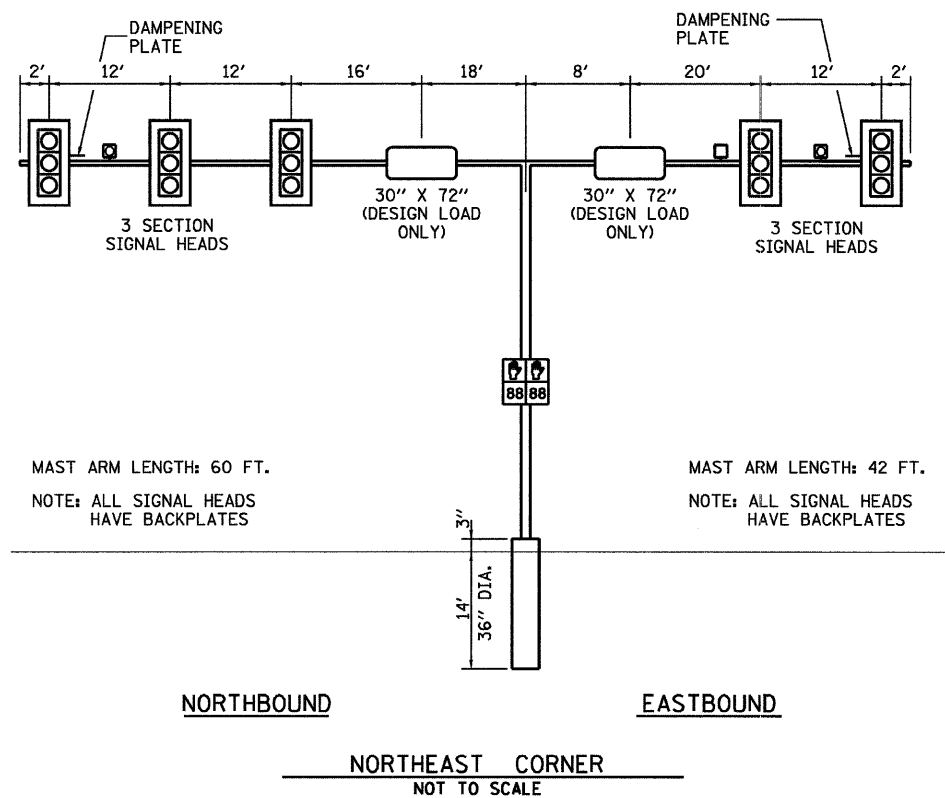
TYPE ZZ SHEETING REQUIRED
8" D SERIES LETTERS
1 SIGNS REQUIRED = 12.5 SQ. FT. EACH
= 12.5 SQ. FT. TOTAL

THIS STREET NAME SIGN SHALL BE PLACED ON THE MAST ARMS PARALLEL WITH SUPERIOR STREET



TYPE ZZ SHEETING REQUIRED
8" D SERIES LETTERS (STATE ROUTE LETTERING)
6" D SERIES LETTERS (CITY STREET LETTERING)
2 SIGNS REQUIRED = 15 SQ. FT. EACH
= 30 SQ. FT. TOTAL

THIS STREET NAME SIGN SHALL BE PLACED ON THE MAST ARMS PARALLEL WITH COLUMBUS STREET



COLUMBUS STREET (IL 23 NB) / SUPERIOR STREET

MAST ARM AND POLE SHALL BE DESIGNED FOR THE WORST CASE LOADING CONDITION WHEREBY ALL THE SIGNAL HEADS ARE LOCATED 2 FEET FURTHER OUT THAN POSITION SHOWN. HOWEVER THE INTENT IS THAT ALL SIGNAL HEADS BE CENTERED ABOVE THE LANES.

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
TRAFFIC SIGNAL DETAILS
FAP 68 (IL 23 NB)/COLUMBUS ST
AND SUPERIOR STREET
SECTION 35,51 & 48 CS, 12)TS
LA SALLE COUNTY

SCALE: VERT. _____
HORIZ. _____
DATE 11/08
DRAWN BY ARR
CHECKED BY JLS

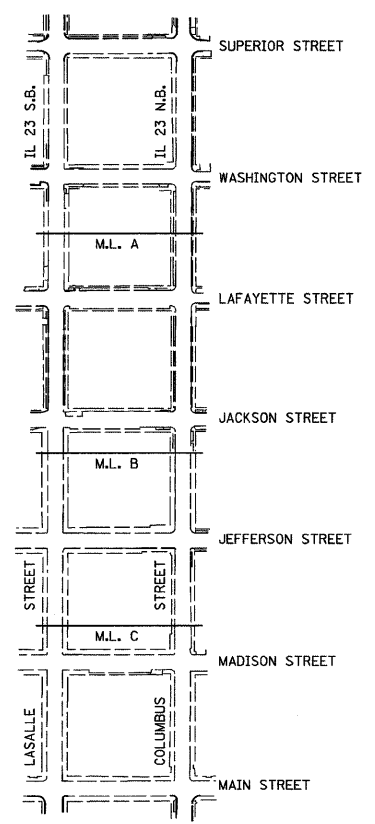
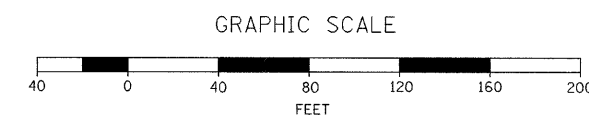
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	**	LA SALLE	48	46
STA.		TO STA.		
FED. ROAD DIST. NO. _		ILLINOIS FED. AID PROJECT		
* FAP 68 & 68 ALT (IL 23 NB & SB)				
** (35, 51 & 48 CS, 1Z)TS				

CONSTRUCTION NOTES:

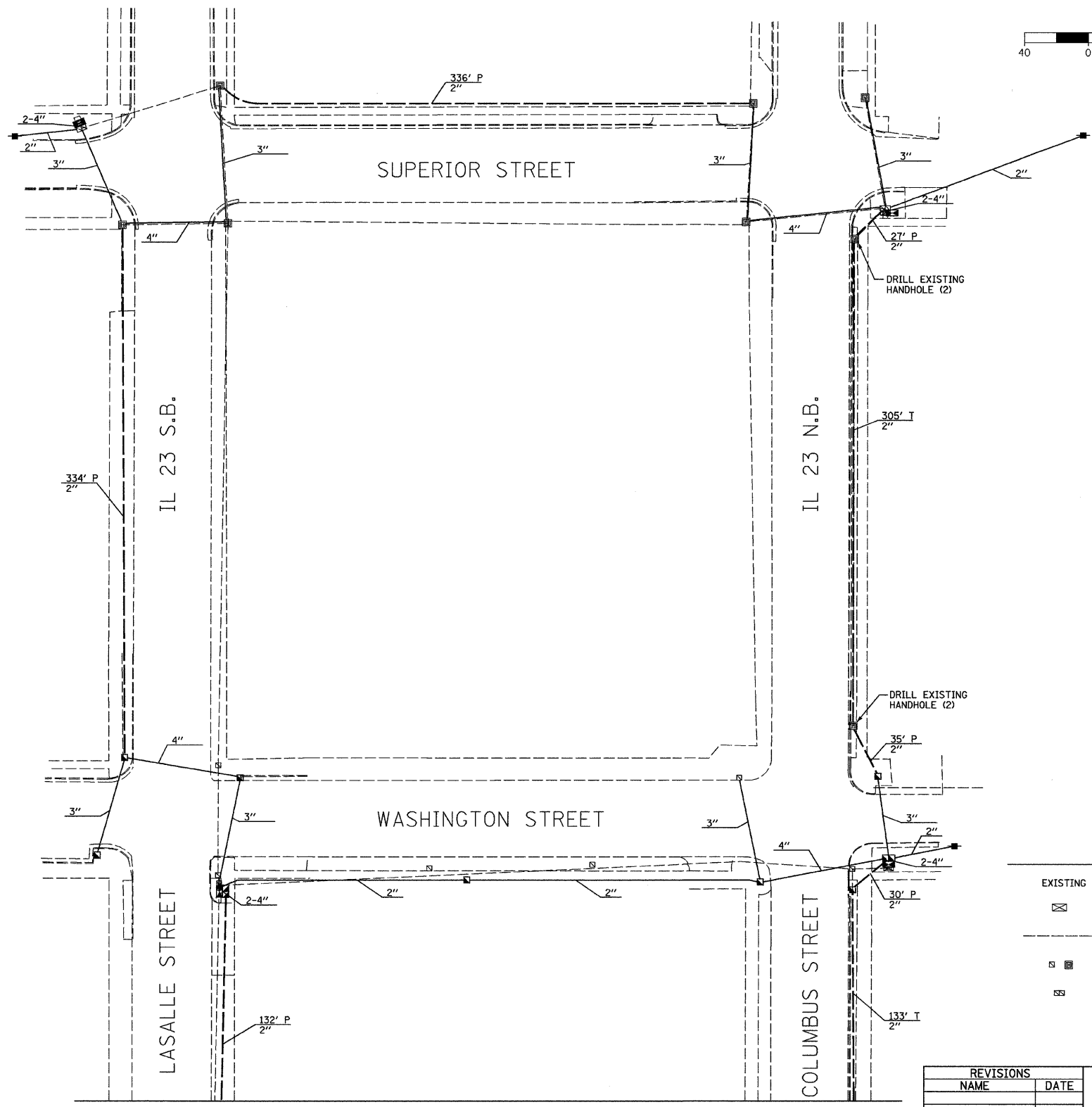
1. THE MASTER CONTROLLER SHALL BE LOCATED AT THE INTERSECTION OF LASALLE STREET AND LAFAYETTE STREET.
2. THE CONTRACTOR SHALL REMOVE THE EXISTING INTERCONNECT CABLE AND REPLACE WITH FIBER OPTIC CABLE AS SPECIFIED.
3. NEW AND EXISTING HANDHOLES SHALL BE USED AS SHOWN.
4. SEE SHEETS 47 AND 48 FOR REMAINING INTERCONNECT DETAILS AND QUANTITIES.

SCHEDULE OF QUANTITIES

ITEM NO.	DESCRIPTION	UNIT	TOTAL QUANTITY
81012600	CONDUIT IN TRENCH, 2" DIA., PVC	FOOT	438
81021330	CONDUIT PUSHED, 2" DIA., PVC	FOOT	894
81400700	HANDHOLE, PORTLAND CEMENT CONCRETE	EACH	1
81900200	TRENCH AND BACKFILL FOR ELECTRICAL WORK	FOOT	438
87100160	FIBER OPTIC CABLE IN CONDUIT 62.5/125 24F	FOOT	2210
87900200	DRILL EXISTING HANDHOLE	EACH	4
89502300	REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	1439
X0322925	ELECTRIC CABLE IN CONDUIT, TRACER, NO. 14 1C	FOOT	2210
XX006668	HANDHOLE TO BE ADJUSTED WITH NEW FRAME AND COVER	EACH	2



OVERALL PLAN



MATCH LINE A

NOTE: SEE INTERSECTION PLAN SHEETS FOR CONDUIT LENGTHS AND DESCRIPTIONS NOT SHOWN.

TRAFFIC SIGNALS LEGEND

EXISTING	PROPOSED	
		CONTROLLER CABINET
		CONDUIT
		HANDHOLE
		DOUBLE HANDHOLE

REVISIONS

NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 TRAFFIC SIGNAL
 INTERCONNECT PLAN
 FAP 68 & 68 ALT (IL 23 NB & SB)
 SECTION (35, 51 & 48 CS, 1Z)TS
 LA SALLE COUNTY

SCALE: VERT. 1" = 40'
 HORIZ. 1" = 40'
 DATE 11/08

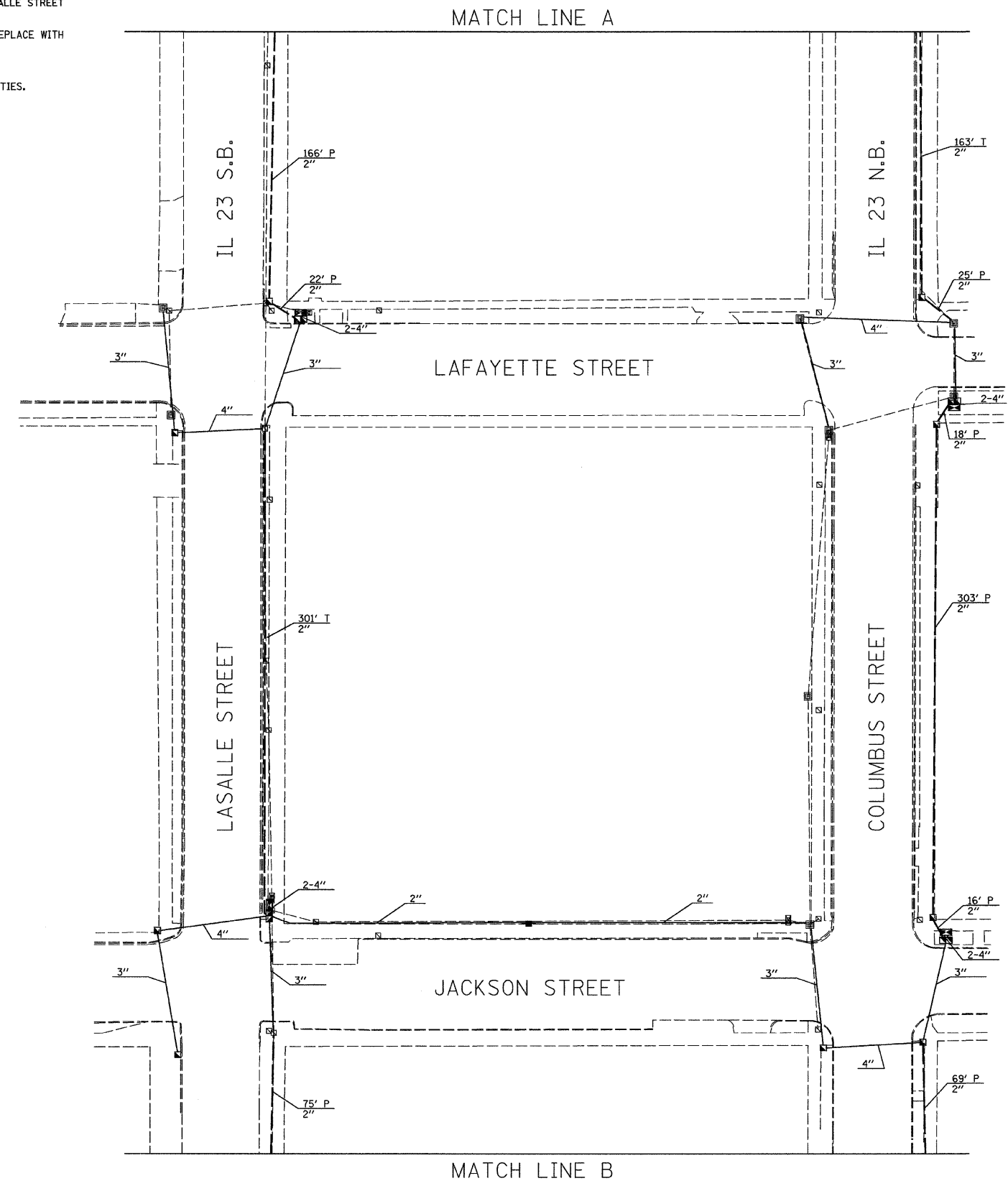
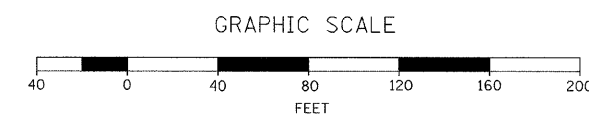
DRAWN BY ARR
 CHECKED BY JLS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	**	LA SALLE	48	47

FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT
 * FAP 68 & 68 ALT (IL 23 NB & SB)
 ** (35, 51 & 48 CS, 12)TS

CONSTRUCTION NOTES:

1. THE MASTER CONTROLLER SHALL BE LOCATED AT THE INTERSECTION OF LASALLE STREET AND LAFAYETTE STREET.
2. THE CONTRACTOR SHALL REMOVE THE EXISTING INTERCONNECT CABLE AND REPLACE WITH FIBER OPTIC CABLE AS SPECIFIED.
3. NEW AND EXISTING HANDHOLES SHALL BE USED AS SHOWN.
4. SEE SHEETS 46 AND 48 FOR REMAINING INTERCONNECT DETAILS AND QUANTITIES.



NOTE:
SEE INTERSECTION PLAN SHEETS FOR CONDUIT LENGTHS AND DESCRIPTIONS NOT SHOWN.

SCHEDULE OF QUANTITIES

ITEM NO.	DESCRIPTION	UNIT	TOTAL QUANTITY
81012600	CONDUIT IN TRENCH, 2" DIA., PVC	FOOT	464
81021330	CONDUIT PUSHED, 2" DIA., PVC	FOOT	694
81400700	HANDHOLE, PORTLAND CEMENT CONCRETE	EACH	4
81900200	TRENCH AND BACKFILL FOR ELECTRICAL WORK	FOOT	464
87100160	FIBER OPTIC CABLE IN CONDUIT 62.5/125 24F	FOOT	1634
89502300	REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	1638.5
X0322925	ELECTRIC CABLE IN CONDUIT, TRACER, NO. 14 1C	FOOT	1634

TRAFFIC SIGNALS LEGEND

EXISTING	PROPOSED	
		CONTROLLER CABINET
		CONDUIT
		HANDHOLE
		DOUBLE HANDHOLE

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 TRAFFIC SIGNAL
 INTERCONNECT PLAN
 FAP 68 & 68 ALT (IL 23 NB & SB)
 SECTION (35, 51 & 48 CS, 12)TS
 LA SALLE COUNTY

SCALE: VERT. 1" = 40'
 HORIZ. 1" = 40'
 DATE 11/08
 DRAWN BY ARR
 CHECKED BY JLS

PLT DATE = 11/08
 FILE NAME = D366769-SHT-TS-INTERCONNECT.DGN
 USER = ARR

CONSTRUCTION NOTES:

1. THE MASTER CONTROLLER SHALL BE LOCATED AT THE INTERSECTION OF LASALLE STREET AND LAFAYETTE STREET.
2. THE CONTRACTOR SHALL REMOVE THE EXISTING INTERCONNECT CABLE AND REPLACE WITH FIBER OPTIC CABLE AS SPECIFIED.
3. NEW AND EXISTING HANDHOLES SHALL BE USED AS SHOWN.
4. SEE SHEETS 46 AND 47 FOR REMAINING INTERCONNECT DETAILS AND QUANTITIES.

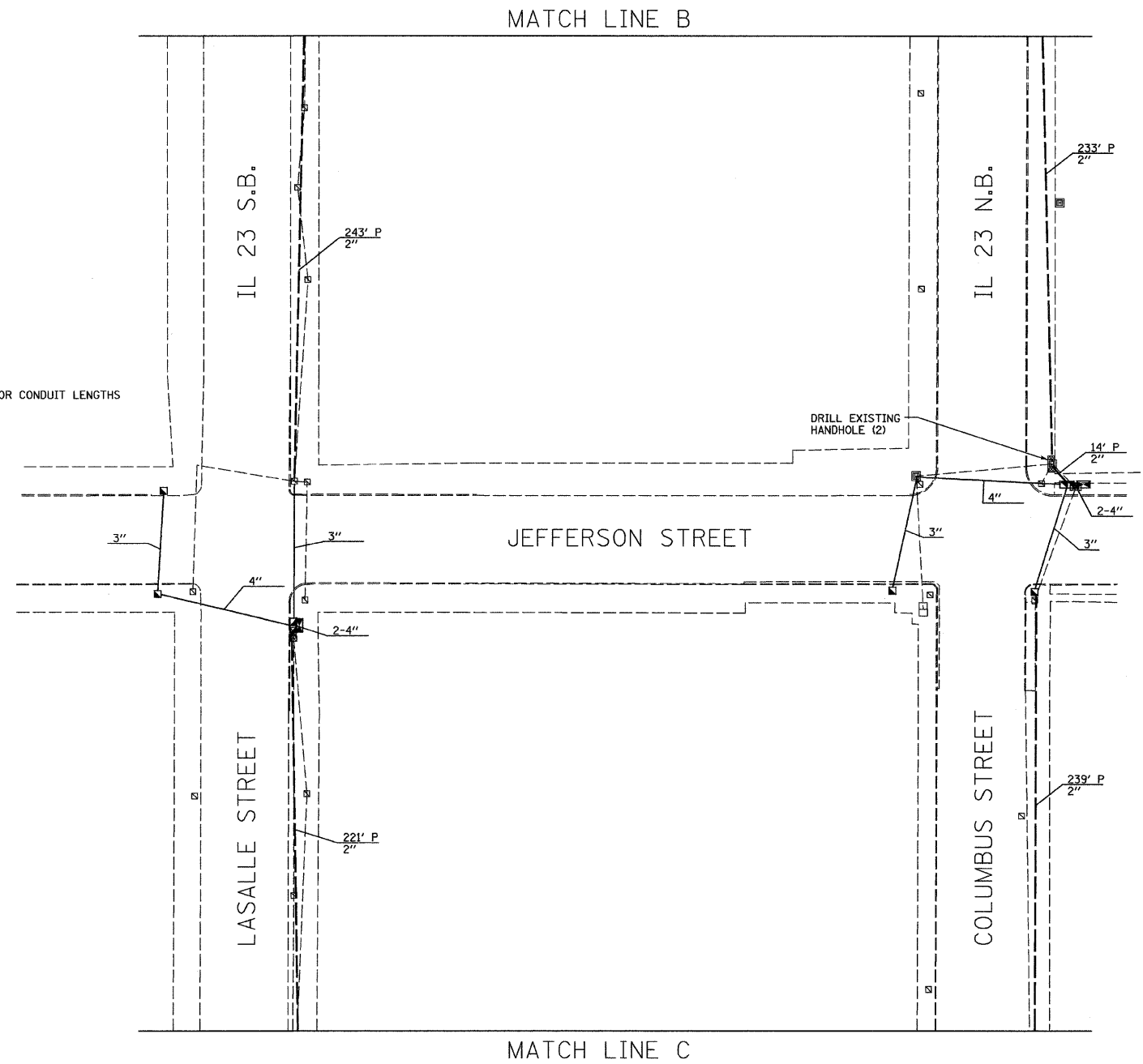
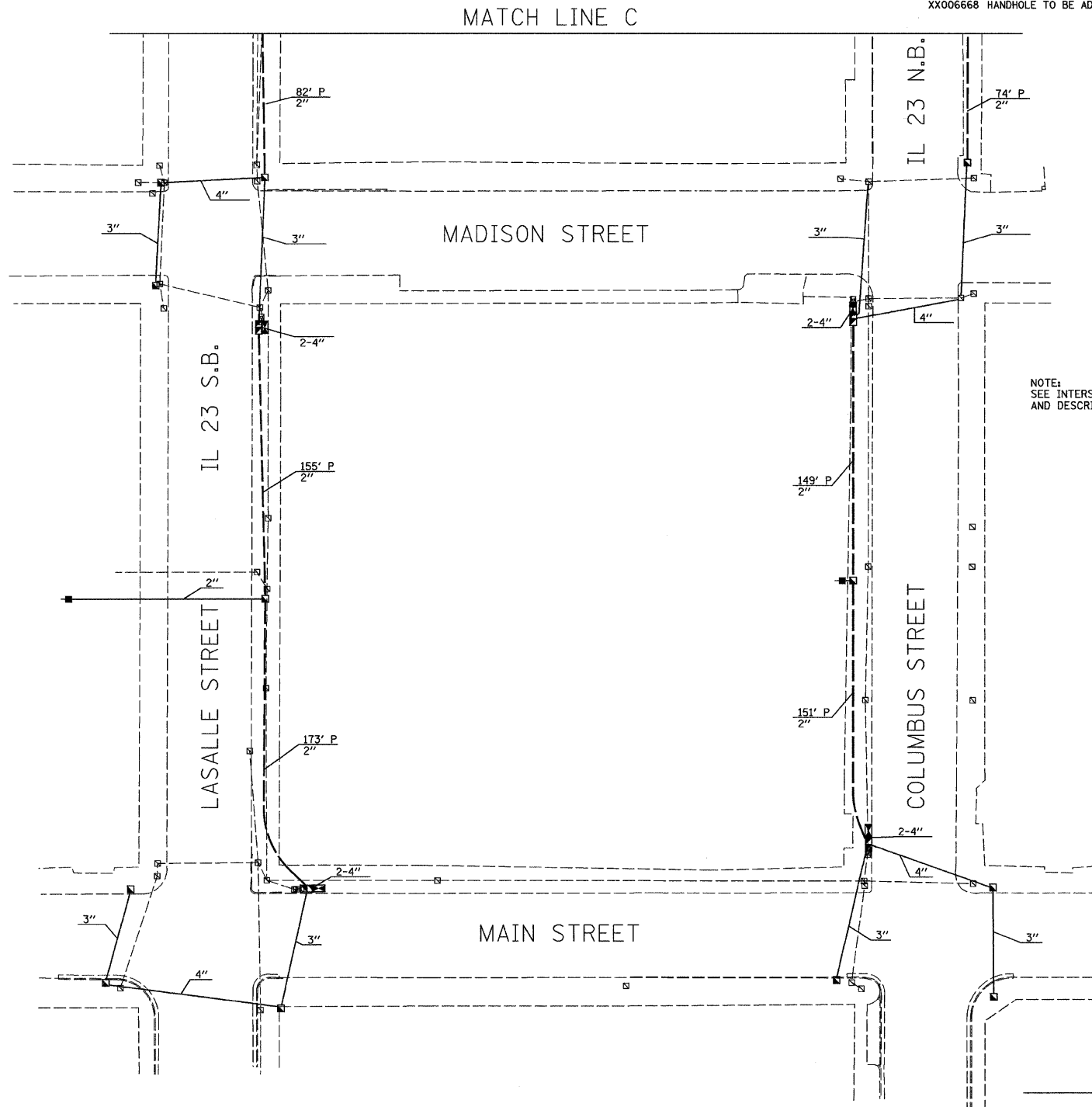
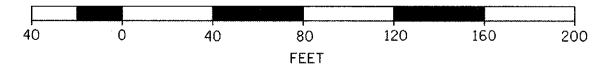
SCHEDULE OF QUANTITIES

ITEM NO.	DESCRIPTION	UNIT	TOTAL QUANTITY
42400100	PORTLAND CEMENT CONCRETE SIDEWALK, 4 INCH	SQ FT	15.7
44000600	SIDEWALK REMOVAL	SQ FT	15.7
81021330	CONDUIT PUSHED, 2" DIA., PVC	FOOT	1734
87100160	FIBER OPTIC CABLE IN CONDUIT 62.5/125 24F	FOOT	2354
87900200	DRILL EXISTING HANDHOLE	EACH	2
89502300	REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	2874
X0322925	ELECTRIC CABLE IN CONDUIT, TRACER, NO. 14 1C	FOOT	2354
XX006668	HANDHOLE TO BE ADJUSTED WITH NEW FRAME AND COVER	EACH	1

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
•	••	LA SALLE	48	48

STA. TO STA.
 FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT
 • FAP 68 & 68 ALT (IL 23 NB & SB)
 •• (35, 51 & 48 CS, 1Z)TS

GRAPHIC SCALE



TRAFFIC SIGNALS LEGEND

EXISTING	PROPOSED	DESCRIPTION
		CONTROLLER CABINET
		CONDUIT
		HANDHOLE
		DOUBLE HANDHOLE

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 TRAFFIC SIGNAL
 INTERCONNECT PLAN
 FAP 68 & 68 ALT (IL 23 NB & SB)
 SECTION (35, 51 & 48 CS, 1Z)TS
 LA SALLE COUNTY
 SCALE: VERT. 1" = 40'
 HORIZ. 1" = 40'
 DATE 11/08
 DRAWN BY ARR
 CHECKED BY JLS