

FOR INDEX OF SHEETS, SEE SHEET NO.2

FOR LIST OF HIGHWAY STANDARDS, SEE SHEET NO.2

TRAFFIC DATA

DESIGN DESIGNATION:
 BROADWAY AVENUE = MINOR ARTERIAL
 DOWNER PLACE = LOCAL STREET

EXISTING ADT:
 BROADWAY AVENUE = 13,300
 DOWNER PLACE = 2,120 (EAST LEG)

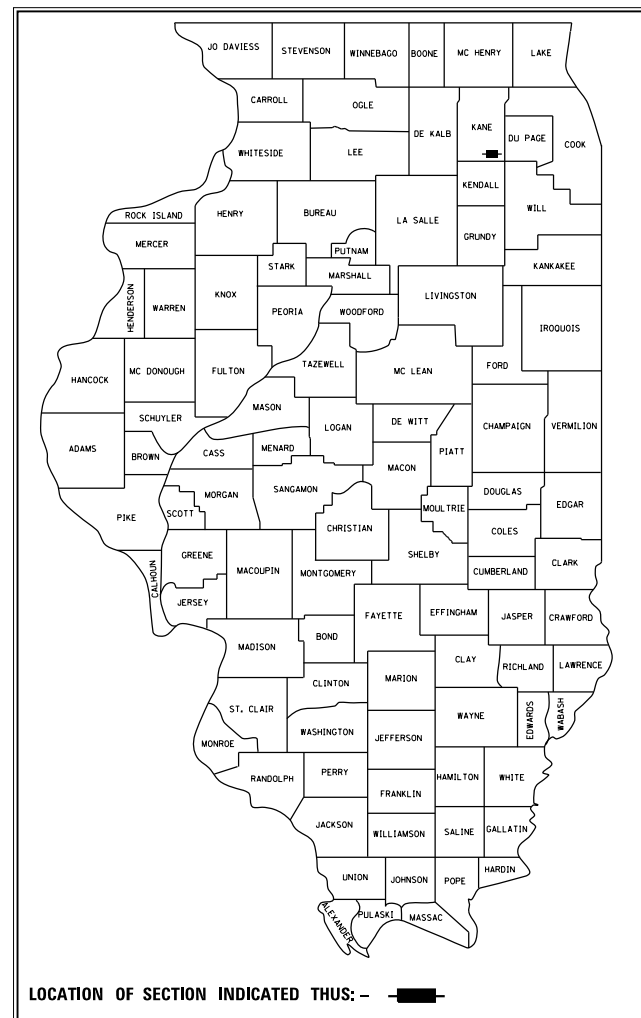
DESIGN SPEED:
 BROADWAY AVENUE = 30 MPH
 DOWNER PLACE = 30 MPH

POSTED SPEED:
 BROADWAY AVENUE = 30 MPH
 DOWNER PLACE = 30 MPH

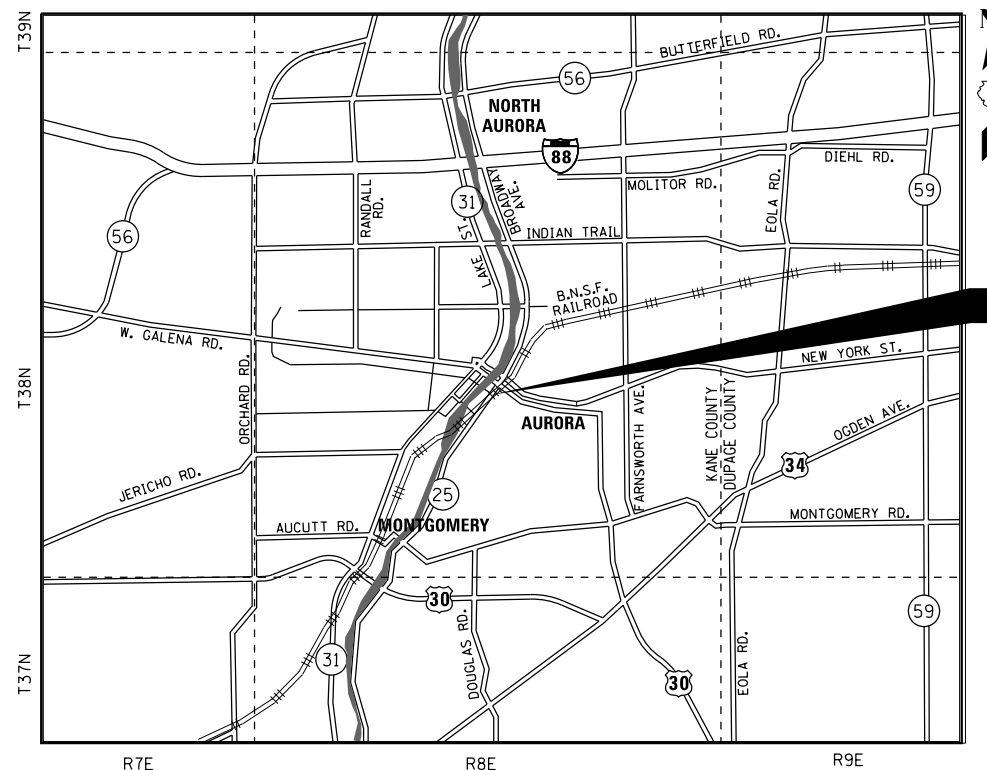
PLANS FOR PERMIT PROJECT

**F.A.U. 2503 /BROADWAY AVENUE (IL 25)
 AT DOWNER PLACE
 PAVEMENT MARKING, SIGNING
 AND
 TRAFFIC SIGNAL MODIFICATIONS
 PERMIT: 045-76542
 KANE COUNTY
 CITY OF AURORA**

F.A.U. RTE.	PERMIT	COUNTY	TOTAL SHEETS	SHEET NO.
2503	045-76542	KANE	27	1



THIS IMPROVEMENT IS LOCATED IN THE CITY OF AURORA



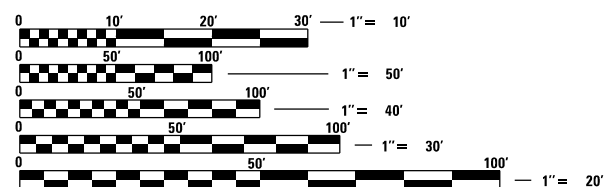
PROJECT PERMIT LOCATION BROADWAY AVENUE (IL 25) AT DOWNER PLACE

CITY OF AURORA

APPROVED _____ 20____

 CITY OF AURORA, CITY TRAFFIC ENGINEER

J.U.L.I.E.
 JOINT UTILITY LOCATING INFORMATION FOR EXCAVATION
 1-800-892-0123 (CALL 48 HOURS IN ADVANCE)



LOCATION MAP
 SCALE : N.T.S

PROJECT PERMIT GROSS /NET LENGTH:

BROADWAY AVENUE	=	100 FEET	=	0.02 MILE
DOWNER PLACE	=	155 FEET	=	0.03 MILE
TOTAL	=	255 FEET	=	0.05 MILE



Matthew J. Feller
 MATTHEW J. FELLER, P.E., PTOE
 NO. 062-065169
 EXPIRES: 11/30/2019
 HR GREEN, INC.
 (SHEETS 1-6, 13-27)

651 PRAIRIE POINTE, SUITE 201 | YORKVILLE, ILLINOIS 60560
 Phone: 630.553.7560 | Toll Free: 800.728.7805 | Fax: 630.553.7646 | HRGreen.com
 ILLINOIS PROFESSIONAL DESIGN FIRM #184-001322

PROGRAM AND OFFICE ENGINEER: CHARLES F. RIDDLE, P.E. (847) 705-4406, SCHAUMBURG, IL

PLAN	SURVEYED	DATE
NOTE BOOK NO.	PLOTTED	BY
	ALIGNMENT CHECKED	
	FIELD FILE NAME	

PROFILE	SURVEYED	DATE
NOTE BOOK NO.	GRADES CHECKED	BY
	STRUCTURE NOTATIONS CHECKED	

HRG PROJECT NO.: 8860295
 HRG PROJ. CONTACT: 255.999.01.downer@hrg.com
 FILE NUMBER: 255.999.01.downer.dgn
 PEN TABLE: p01tbl.tbl

INDEX OF SHEETS

- 1 COVER SHEET
- 2 INDEX OF SHEETS / LIST OF HIGHWAY STANDARDS / GENERAL NOTES
- 3 SUMMARY OF QUANTITIES
- 4 PAVEMENT MARKING SCHEDULE / SIGN REMOVAL SCHEDULE
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- 13-19 DISTRICT ONE STANDARD TRAFFIC SIGNAL DESIGN DETAILS
- 20 TRAFFIC SIGNAL MODIFICATION PLAN - BROADWAY AVENUE (IL 25) AT DOWNER PLACE
- 21 CABLE PLAN AND PHASE DESIGNATION DIAGRAM - BROADWAY AVENUE (IL 25) AT DOWNER PLACE
- 22-27 MISCELLANEOUS DETAILS

LIST OF HIGHWAY STANDARDS

- 000001-06 STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
- 701501-06 URBAN LANE CLOSURE, 2L, 2W, UNDIVIDED
- 701502-07 URBAN LANE CLOSURE, 2L, 2W WITH BIDIRECTIONAL LEFT TURN LANE
- 701601-09 URBAN LANE CLOSURE, MULTILANE, 1W OR 2W WITH NONTRAVERSABLE MEDIAN
- 701606-10 URBAN SINGLE LANE CLOSURE, MULTILANE, 2W WITH MOUNTABLE MEDIAN
- 701701-10 URBAN LANE CLOSURE, MULTILANE INTERSECTION
- 701801-06 SIDEWALK, CORNER OR CROSSWALK CLOSURE
- 701901-06 TRAFFIC CONTROL DEVICES
- 857001-01 STANDARD PHASE DESIGNATION DIAGRAMS AND PHASE SEQUENCES
- 873001-02 TRAFFIC SIGNAL GROUNDING & BONDING
- 878001-10 CONCRETE FOUNDATION DETAILS
- 880006-01 TRAFFIC SIGNAL MOUNTING DETAILS

DISTRICT DETAILS

- TC-10: TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS
- TC-11: RAISED REFLECTIVE PAVEMENT MARKERS (SNOW PLOW RESISTANT)
- TC-13: DISTRICT ONE TYPICAL PAVEMENT MARKINGS

GENERAL NOTES

MISCELLANEOUS

IT IS THE CONTRACTOR'S RESPONSIBILITY TO ASCERTAIN EXISTING FIELD CONDITIONS BEFORE BIDDING ON THE CONTRACT.

THE CONTRACTOR SHALL CONTACT THE IDOT TRAFFIC CONTROL SUPERVISOR AT (847) 705-4470 A MINIMUM OF 72 HOURS PRIOR TO THE START OF ANY WORK WITHIN THE RIGHT-OF-WAY OF AND BROADWAY AVENUE (IL ROUTE 25).

PRIOR TO THE START OF CONSTRUCTION, THE CONTRACTOR, ENGINEER AND A REPRESENTATIVE FROM THE CITY OF AURORA SHALL INVENTORY THE LOCATION, SIZE, TYPE AND CONDITION OF ALL EXISTING SIGNS WITHIN PROJECT LIMITS. ANY SIGN DAMAGED DURING CONSTRUCTION SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.

ONCE THE EXISTING SIGN INVENTORY IS COMPLETE, THE CITY OF AURORA WILL IDENTIFY ANY SIGNS NOT MARKED IN THE PLANS THAT WILL BE IN CONFLICT WITH THE PROPOSED PROJECT AND DETERMINE WHETHER THEY NEED TO BE REMOVED, RELOCATED OR TEMPORARILY COVERED.

ANY EXISTING SIGN IN CONFLICT WITH THE PROPOSED PROJECT WILL BE REMOVED, RELOCATED OR TEMPORARILY COVERED BY CITY OF AURORA MAINTENANCE PERSONNEL UNLESS SPECIFICALLY INCLUDED IN THE PLANS. THE CITY TRAFFIC ENGINEER SHALL BE CONTACTED AT (630) 256-3237 A MINIMUM OF 48 HOURS PRIOR TO THE DESIRED DATE FOR THE MAINTENANCE PERSONNEL TO COMPLETE THIS WORK.

UTILITIES

THE CONTRACTOR SHALL COOPERATE WITH THE CITY OF AURORA IF ANY UTILITY IMPROVEMENTS ARE REQUIRED BY THE CITY WITHIN THE DURATION OF THE CONTRACT.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING THE OWNERS OF ALL UTILITIES PRIOR TO CONSTRUCTION TO DETERMINE THE LOCATION OF ALL UTILITY EQUIPMENT. THE CONTRACTOR SHALL COOPERATE WITH ALL UTILITY OWNERS IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS IF UTILITY RELOCATION, ADJUSTMENT, OR PROTECTION IS NECESSARY.

THE LOCATION OF EXISTING DRAINAGE STRUCTURES, STORM SEWERS, WATER MAINS, SANITARY SEWERS, AND ANY OTHER PUBLIC OR PRIVATE UTILITIES AS SHOWN ON THE PLANS IS APPROXIMATE AND THEIR EXACT LOCATION IS TO BE DETERMINED IN THE FIELD BY THE CONTRACTOR. THIS WORK SHALL BE CONSIDERED AS INCLUDED IN THE UNIT BID PRICES OF THE CONTRACT, AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED, INCLUDING CLAIMS BY THE CONTRACTOR FOR TIME LOST (LABOR AND EQUIPMENT) DUE TO UTILITIES LOCATIONS OR RELOCATING UTILITIES.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL UNDERGROUND AND SURFACE UTILITIES EVEN THOUGH THEY MIGHT NOT BE SHOWN ON THE PLANS. ANY UTILITY PROPERTY DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED OR REPLACED TO THE SATISFACTION OF THE OWNER AT THE CONTRACTOR'S EXPENSE.



USER NAME = mfeiler	DESIGNED - GF	REVISED -
	DRAWN - RCB	REVISED -
PLOT SCALE =	CHECKED - APS	REVISED -
PLOT DATE = 1/31/2018	DATE - 1/31/18	REVISED -

CITY OF AURORA

INDEX OF SHEETS, LIST OF HIGHWAY STANDARDS AND GENERAL NOTES			
SCALE:	SHEET NO. OF SHEETS	STA.	TO STA.

F.A.U. RTE.	PERMIT NO.	COUNTY	TOTAL SHEETS	SHEET NO.
VARIES	045-76542	KANE	27	2
CONTRACT NO.				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

PLAN	SURVEYED	BY	DATE
NOTE BOOK NO.	PLOTTED		
	GRADES CHECKED		
	STRUCTURE NOTATIONS CHECKED		
	FILE NAME		

PROFILE	SURVEYED	BY	DATE
NOTE BOOK NO.	PLOTTED		
	GRADES CHECKED		
	STRUCTURE NOTATIONS CHECKED		
	FILE NAME		

HRG PROJECT NO.: 8860255
 HRG PROJ. CONTACT: 255.sum@hr.com
 FILE NAME: 255.sum.dwg
 PEN TABLE: 255.sum.tbl

PERMIT

CODE NUMBER	PAY ITEM DESCRIPTION	UNIT	QUANTITY
72000100	SIGN PANEL - TYPE 1	SQ FT	19
72400100	REMOVE SIGN PANEL ASSEMBLY - TYPE A	EACH	5
78009000	MODIFIED URETHANE PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	88
78009004	MODIFIED URETHANE PAVEMENT MARKING - LINE 4"	FOOT	414
78009006	MODIFIED URETHANE PAVEMENT MARKING - LINE 6"	FOOT	64
78009024	MODIFIED URETHANE PAVEMENT MARKING - LINE 24"	FOOT	30
85000200	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
85100500	PAINT NEW TRAFFIC SIGNAL POST	EACH	1
87301215	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	469
87301255	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	521
87502500	TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EACH	1
88030020	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	1
88030050	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	1
88030100	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	3
88030110	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED	EACH	1
88200210	TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM	EACH	2
88800100	PEDESTRIAN PUSH-BUTTON	EACH	8
89502300	REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	385
89502375	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
X0327980	PAVEMENT MARKING REMOVAL - WATER BLASTING	SQ FT	416
X7010216	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	LSUM	1
X8950114	MODIFY EXISTING CONTROLLER AND CABINET	EACH	1

EAST OF PERMIT

CODE NUMBER	PAY ITEM DESCRIPTION	UNIT	QUANTITY
72000100	SIGN PANEL - TYPE 1	SQ FT	55
72400100	REMOVE SIGN PANEL ASSEMBLY - TYPE A	EACH	13
72400310	REMOVE SIGN PANEL - TYPE 1	SQ FT	70
72400500	RELOCATE SIGN PANEL ASSEMBLY - TYPE A	EACH	7
72400710	RELOCATE SIGN PANEL - TYPE 1	SQ FT	16
72800100	TELESCOPING STEEL SIGN SUPPORT	FOOT	208
73100100	BASE FOR TELESCOPING SIGN SUPPORT	EACH	16
78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4" (Yellow)	FOOT	2250
78000400	THERMOPLASTIC PAVEMENT MARKING - LINE 6" (White)	FOOT	1378
78000600	THERMOPLASTIC PAVEMENT MARKING - LINE 12" (White)	FOOT	1342
78000650	THERMOPLASTIC PAVEMENT MARKING - LINE 24" (White)	FOOT	435
78001150	PAINT PAVEMENT MARKING - LINE 12" (Yellow Curb)	FOOT	2281
78001150	PAINT PAVEMENT MARKING - LINE 12" (Blue Curb)	FOOT	120
X0327980	PAVEMENT MARKING REMOVAL - WATER BLASTING	SQ FT	148
X7010238	CHANGEABLE MESSAGE SIGN, SPECIAL	CAL MO	8



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 #184-001322

USER NAME = mfoeller	DESIGNED - GF	REVISED -
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PLOT DATE = 2/1/2018	DATE - 2/1/18	REVISED -

CITY OF AURORA

SUMMARY OF QUANTITIES

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

F.A.U. RTE.	PERMIT NO.	COUNTY	TOTAL SHEETS	SHEET NO.
VARIES	045-76542	KANE	27	3
CONTRACT NO.				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

PLAN	SURVEYED PLOTTED ALIGNMENT CHECKED E-ADD FILE NAME	BY	DATE
		NO.	

PERMIT PAVEMENT MARKING SCHEDULE

LOCATION	PAVEMENT MARKING REMOVAL (SQ FT)	LETTERS AND SYMBOLS (SQ FT)	MODIFIED URETHANE PAVEMENT MARKING			LINE - 24" STOP BAR WHITE (FOOT)
			LINE - 4" MEDIAN LINE/CENTERLINE SOLID YELLOW (FOOT)	LINE - 6" LANE LINES		
				6'-2" SKIP-DASH SOLID WHITE (FOOT)	SOLID WHITE (FOOT)	
BROADWAY AVENUE	178	36.4	104	14	50	30
DOWNER PLACE	238	52	310			
TOTAL	416	88	414	64		30

PERMIT SIGN SCHEDULE

LOCATION	STANDARD NUMBER	SIGN DESCRIPTION	REMOVE SIGN PANEL ASSEMBLY TYPE A (EACH)	SIGN PANEL TYPE 1 (SQ FT)
BROADWAY AVENUE AT DOWNER PLACE				
DOWNER PLACE INTERSECTION MAST ARM SOUTHWEST CORNER	R3-2L	NO LEFT TURN	1	
DOWNER PLACE INTERSECTION MAST ARM SOUTHWEST CORNER	R5-1	DO NOT ENTER	1	
DOWNER PLACE INTERSECTION MAST ARM SOUTHWEST CORNER	R5-1	DO NOT ENTER	1	
DOWNER PLACE INTERSECTION MAST ARM SOUTHWEST CORNER	R3-2R	NO RIGHT TURN	1	
DOWNER PLACE WEST SIDE OF BRIDGE	W12-2-3636	HEIGHT RESTRICTION		9.00
DOWNER PLACE WEST SIDE OF BRIDGE	R4-7-2430	MEDIAN OBSTRUCTION		5.00
DOWNER PLACE EAST SIDE OF BRIDGE	W12-1	LANE SEPARATION WARNING	1	
DOWNER PLACE EAST SIDE OF BRIDGE	R4-7-2430	MEDIAN OBSTRUCTION		5.00
TOTAL			5	19.00

PROFILE	SURVEYED PLOTTED GRADES CHECKED FILE NAME STRUCTURE NOT AT THIS CHKD	BY	DATE
		NO.	

PAVEMENT MARKING SCHEDULE – EAST OF PERMIT TO LINCOLN AVENUE

LOCATION	PAVEMENT MARKING REMOVAL (SQ FT)	THERMOPLASTIC PAVEMENT MARKING				PAINT PAVEMENT MARKING LINE 12" (YELLOW CURB) (FOOT)
		LINE - 4" MEDIAN LINE/CENTERLINE SOLID YELLOW (FOOT)	LINE - 6" CROSSWALK SOLID WHITE (FOOT)	LINE - 12" CROSSWALK SOLID WHITE (FOOT)	LINE - 24" STOP BAR WHITE (FOOT)	
LASALLE STREET TO LINCOLN AVENUE	118	670	348	252	85	61
TOTAL	118	670	348	252	85	61

SIGN SCHEDULE – EAST OF PERMIT TO LINCOLN AVENUE

LOCATION	STANDARD NUMBER	SIGN DESCRIPTION	REMOVE SIGN PANEL ASSEMBLY TYPE A (EACH)	SIGN PANEL TYPE 1 (SQ FT)	RELOCATE SIGN PANEL ASSEMBLY TYPE A (EACH)
DOWNER PLACE AT LASALLE STREET					
LIGHT POLE NORTHWEST CORNER	R6-2	ONE WAY	2		
LIGHT POLE NORTHWEST CORNER	W4-4P-2412	CROSS TRAFFIC DOES NOT STOP		2.00	
SIGN POST SOUTHEAST CORNER	R6-2	ONE WAY	2		
SIGN POST SOUTHEAST CORNER	W4-4P-2412	CROSS TRAFFIC DOES NOT STOP		2.00	
DOWNER PLACE AT LINCOLN AVENUE					
SIGN POST NORTHWEST CORNER	R6-2	ONE WAY	2		
FROM LIGHT POLE SE CORNER TO LIGHT POLE SW CORNER	R1-1-3030	STOP SIGN			1
FROM LIGHT POLE SE CORNER TO LIGHT POLE SW CORNER	R1-3P-1806	ALL WAY PLAQUE			1
SIGN POST SOUTHEAST CORNER	R6-2	ONE WAY	2		
UTILITY POLE SOUTHEAST CORNER	R5-1	DO NOT ENTER	1		
TO SIGN POST NORTHEAST CORNER	N/A	RIVER EDGE PARK			1
SIGN POST NORTHEAST CORNER	R5-1	DO NOT ENTER	1		
TOTAL			10	4.00	3.00

HRG PROJECT NO.: 8860255
 HRG PROJ. CONTACT: 255.schulz.downer@hrgreen.com
 FILE NAME: 255.schulz.downer.dgn
 PEN TABLE: p01tbl.tbl



USER NAME = mfoeller	DESIGNED - GF	REVISED -
PLOT SCALE =	DRAWN - RCB	REVISED -
PLOT DATE = 1/31/2018	CHECKED - APS	REVISED -
	DATE - 1/31/18	REVISED -

CITY OF AURORA

PAVEMENT MARKING AND SIGN REMOVAL SCHEDULES

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

F.A.U. RTE.	PERMIT NO.	COUNTY	TOTAL SHEETS	SHEET NO.
VARIES	045-76542	KANE	27	4
CONTRACT NO.				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

PLAN	SURVEYED	DATE
	PLOTTED	
	ALIGNED	
	CHECKED	
	FILED	
	FILE NAME	
	NO.	

PROFILE	SURVEYED	DATE
	PLOTTED	
	GRADES CHECKED	
	STRUCTURE NOTATIONS CHECKED	
	NO.	

HRG PROJECT NO.: 8860295
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 FILE NAME: 255_pm03_downwr.dgn
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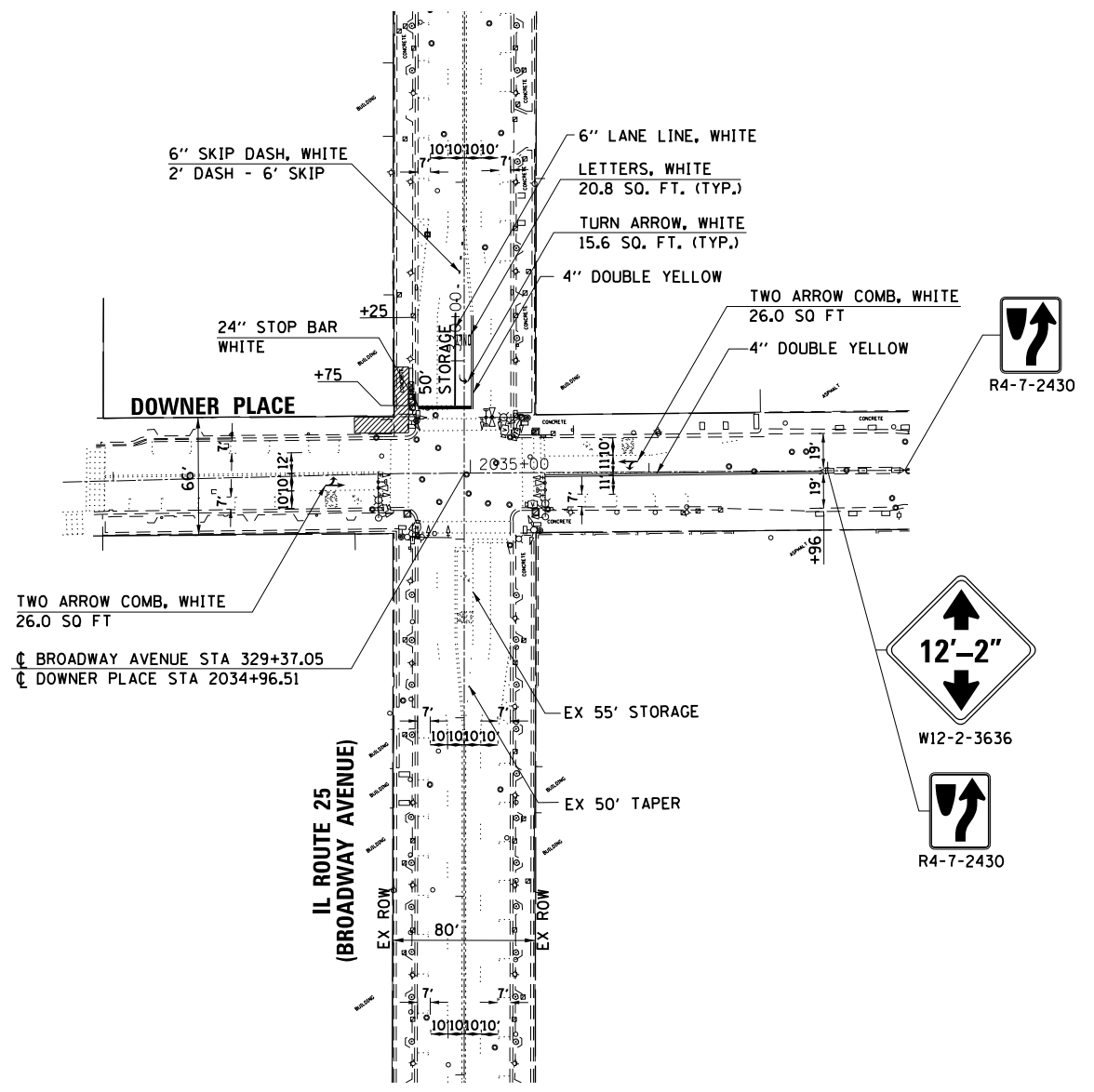
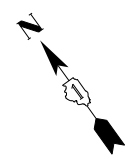
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	DRAWN - RCB	REVISED -
PLOT SCALE =	CHECKED - APS	REVISED -
PLOT DATE = 1/31/2018	DATE - 1/31/18	REVISED -

CITY OF AURORA

PAVEMENT MARKING AND SIGNING PLANS
IL ROUTE 25 (BROADWAY AVENUE)

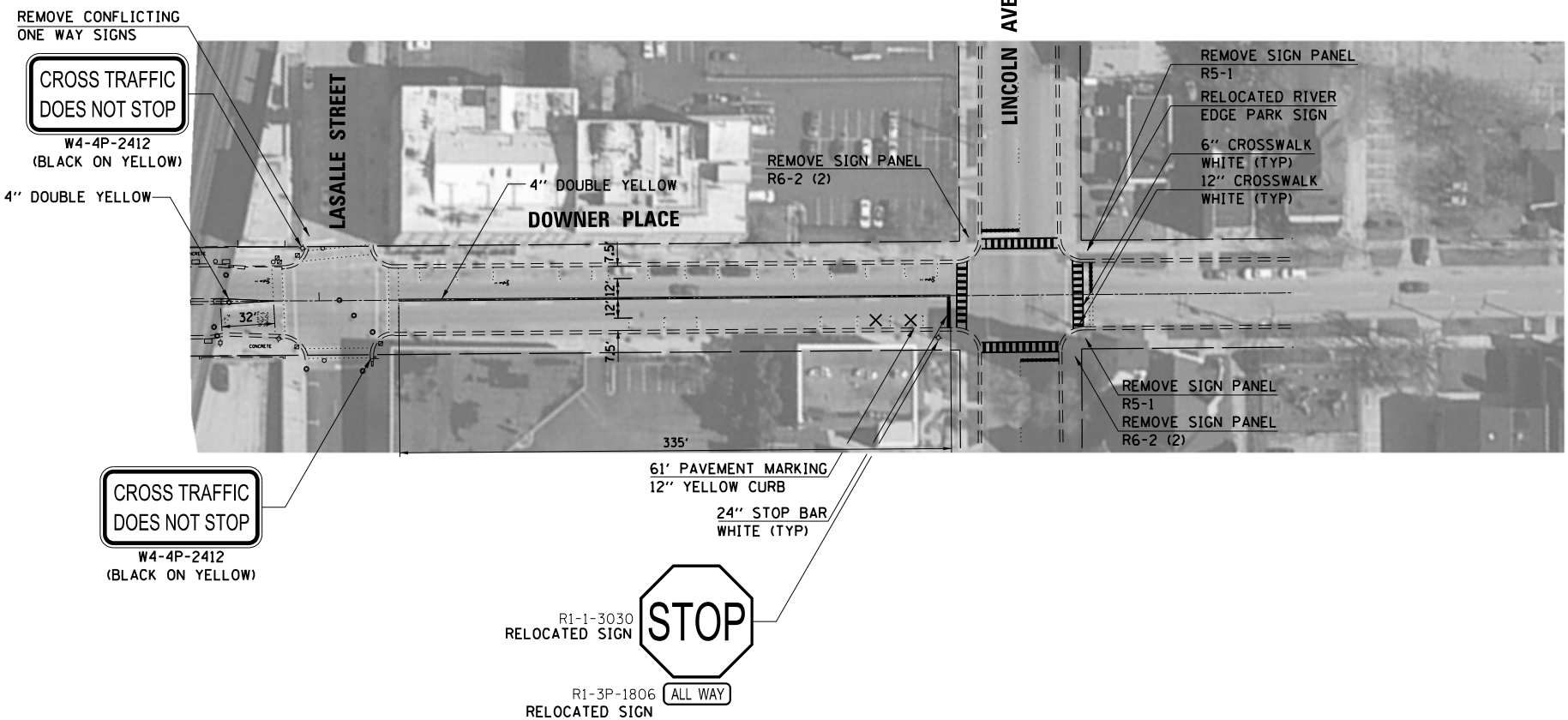
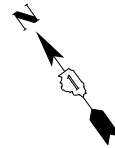
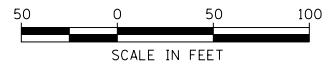
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F.A.U. RTE.	PERMIT NO.	COUNTY	TOTAL SHEETS	SHEET NO.
VARIES	045-76542	KANE	27	5
CONTRACT NO.				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



LEGEND

—	EXISTING RIGHT-OF-WAY
X	PARKING REMOVAL



PLAN	SURVEYED	DATE
	PLOTTED	
	GRADES CHECKED	
	ALIGNMENT CHECKED	
	STRUCTURE NOTATIONS CHECKED	
	FILE NAME	
	NO.	

PROFILE	SURVEYED	DATE
	PLOTTED	
	GRADES CHECKED	
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HRG PROJECT NO.: 8860255
 HRG PROJ. CONTACT: 255_pm03b_cdowner_to_lincoln.dgn
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USER NAME = mfeiler	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE =	CHECKED -	REVISED -
PLOT DATE = 1/31/2018	DATE - 1/31/18	REVISED -

CITY OF AURORA

PAVEMENT MARKING AND SIGNING PLANS
 LASALLE STREET TO LINCOLN AVENUE

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

LEGEND

—	EXISTING RIGHT-OF-WAY
X	PARKING REMOVAL

F.A.U. RTE.	PERMIT NO.	COUNTY	TOTAL SHEETS	SHEET NO.
VARIES	045-76542	KANE	27	6
CONTRACT NO.				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

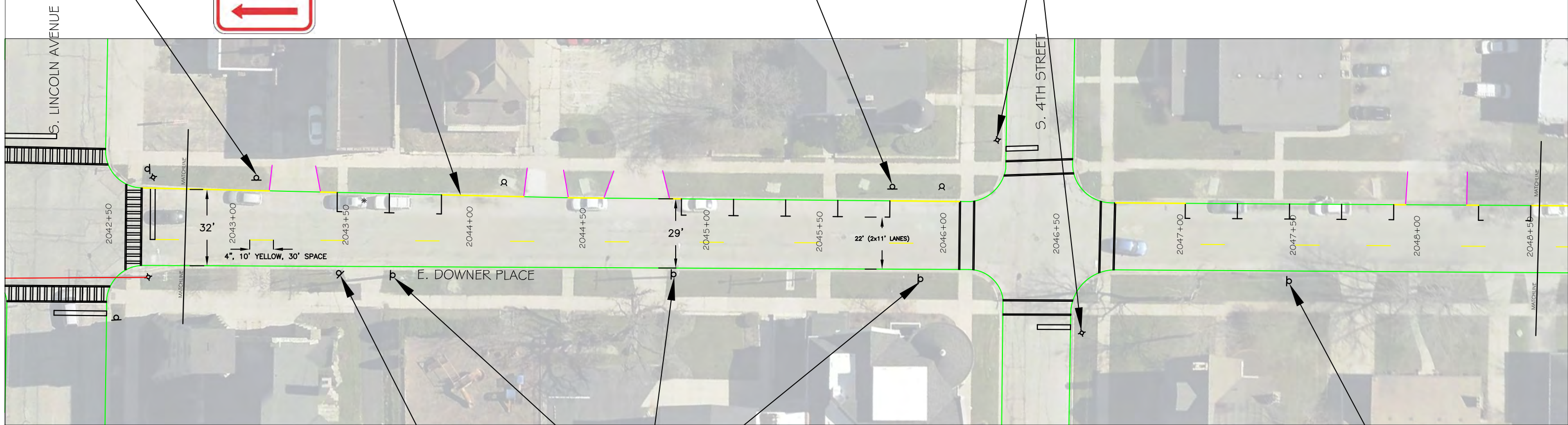
INSTALL NEW "NO PARKING HERE TO CORNER" SIGN WITH LEFT POINTING ARROW ON NEW SUPPORT R7-1 (12"x18"), RED LEGEND AND BORDER ON WHITE BACKGROUND



INSTALL NEW "NO PARKING HERE TO CORNER" SIGN WITH RIGHT POINTING ARROW ON NEW SUPPORT R7-1 (12"x18"), RED LEGEND AND BORDER ON WHITE BACKGROUND

PAINT YELLOW CURB AS INDICATED (TYP.)

REMOVE EXISTING 2-SIDED ONE-WAY SIGNS ON NW AND SE SUPPORTS



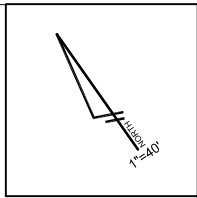
REMOVE EXISTING METERING SIGN

REORIENT EXISTING "NO PARKING THIS SIDE EXCEPT SUNDAY" SIGNS/PALQUES AND SUPPORTS TO FACE EB TRAFFIC

*NOTE: ALL ON STREET PARKING WILL HAVE DIMENSIONS OF 7'x22' UNLESS OTHERWISE INDICATED

NOTE: 2016 AERIAL PHOTOGRAPHY

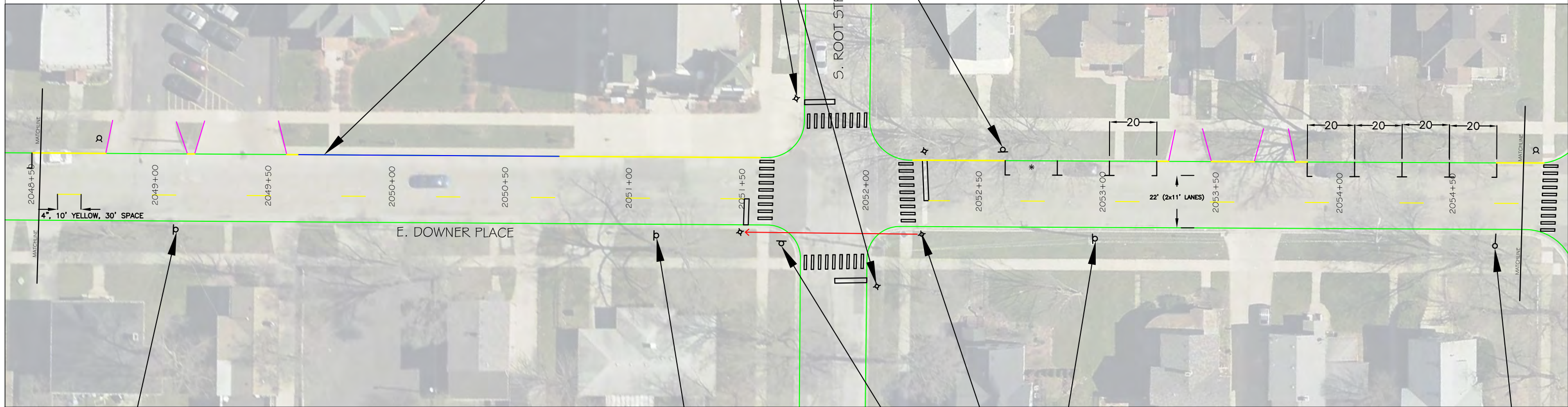
<p>CITY OF AURORA ENGINEERING DIVISION 44 EAST DOWNER PLACE</p>	REVISIONS: REVISED 1/23/2018 BY GIL			PROJECT DOWNER PLACE TWO-WAY CONVERSION	SHEET NUMBER 7
	DESIGNED BY: GIL	CHECKED BY: RG	SCALE: 1" = 40'	SHEET TITLE PAVEMENT MARKINGS AND SIGNAGE	TOTAL SHEETS 27
	DRAWN BY: GIL	APPROVED BY: RG	DATE: 1/2018		



REMOVE EXISTING 2-SIDED ONE-WAY SIGNS ON NW AND SE SUPPORTS

INSTALL NEW "NO PARKING HERE TO CORNER" SIGN WITH LEFT POINTING ARROW ON NEW SUPPORT R7-1, (12"x18"), RED LEGEND AND BORDER ON WHITE BACKGROUND

PAINT 110' OF BLUE CURB AS INDICATED



REORIENT EXISTING NO PARKING THIS SIDE EXCEPT ON SUNDAYS SIGNS TO FACE EB TRAFFIC

REMOVE EXISTING ONE-WAY SIGN AND EXISTING SUPPORT


INSTALL NEW "NO PARKING THIS SIDE" SIGN ON EXISTING UTILITY POLE R8-3A, (12"x18")

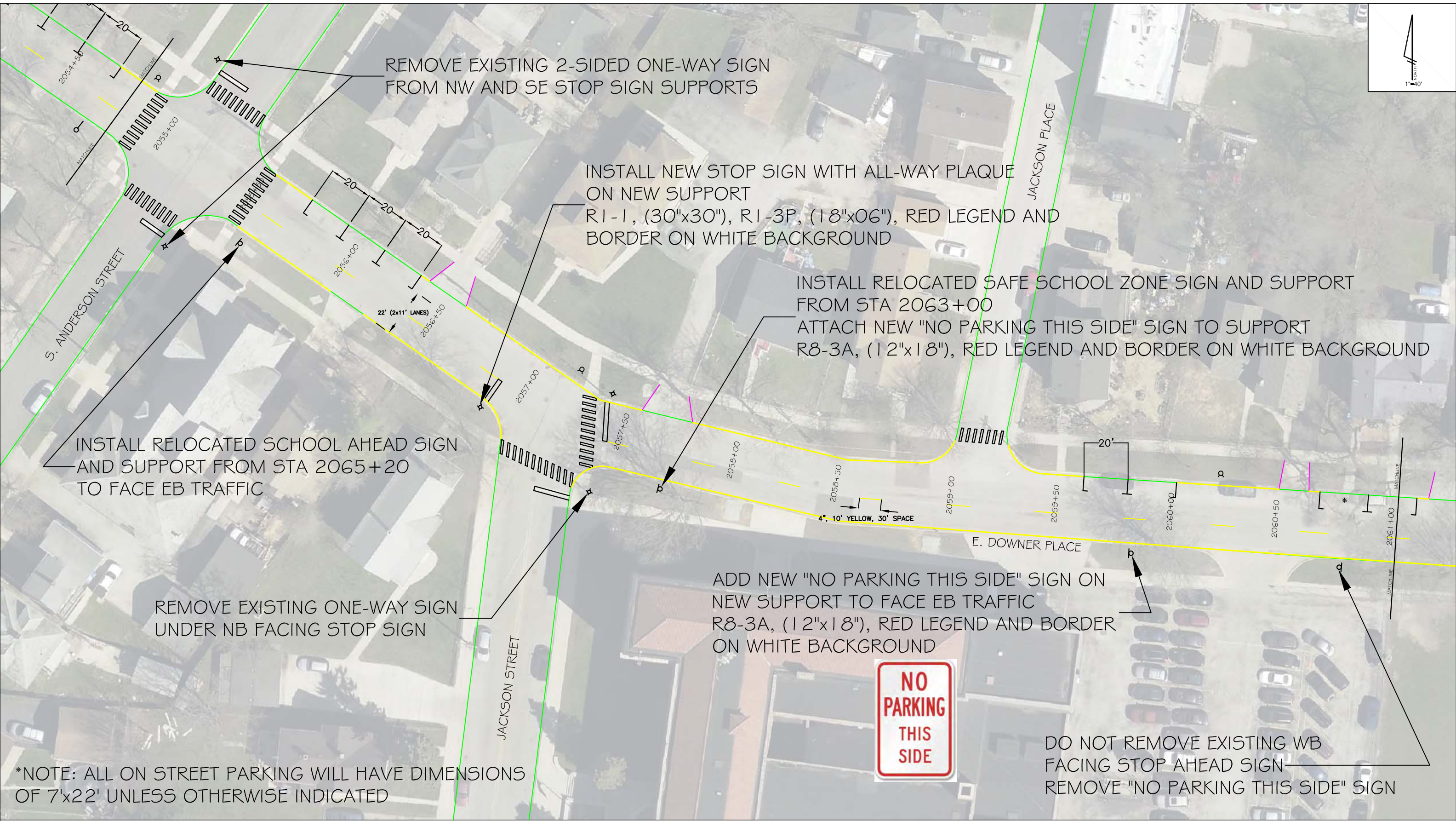
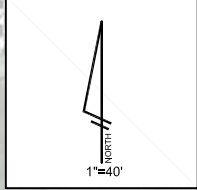
RELOCATE EXISTING STOP SIGN AND EXISTING SUPPORT TO SW CORNER OF INTERSECTION TO FACE EB TRAFFIC

REORIENT EXISTING HISTORICAL DISTRICT SIGN TO FACE EB TRAFFIC

* NOTE: ALL ON STREET PARKING WILL HAVE DIMENSIONS OF 7'x22' UNLESS OTHERWISE INDICATED

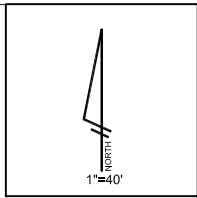
NOTE: 2016 AERIAL PHOTOGRAPHY

	CITY OF AURORA ENGINEERING DIVISION 44 EAST DOWNER PLACE	REVISIONS: REVISED 1/23/2018 BY GIL	PROJECT DOWNER PLACE TWO-WAY CONVERSION	SHEET NUMBER 8
		DESIGNED BY: GIL CHECKED BY: RG SCALE: 1" = 40'	SHEET TITLE PAVEMENT MARKINGS AND SIGNAGE	TOTAL SHEETS 27
		DRAWN BY: GIL APPROVED BY: RG DATE: 1/2018		



NOTE: 2016 AERIAL PHOTOGRAPHY

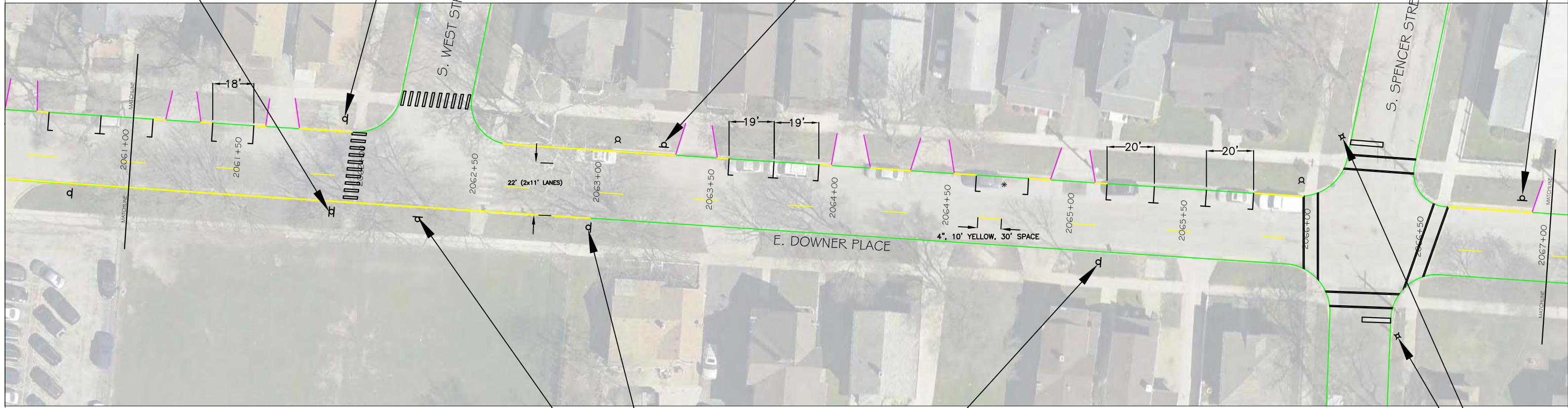
<p>CITY OF AURORA ENGINEERING DIVISION 44 EAST DOWNER PLACE</p>	<p>REVISIONS: REVISED 1/23/2018 BY GIL</p>	<p>PROJECT DOWNER PLACE TWO-WAY CONVERSION</p>	<p>SHEET NUMBER 9</p>
	<p>DESIGNED BY: GIL CHECKED BY: RG SCALE: 1" = 40'</p>	<p>SHEET TITLE PAVEMENT MARKINGS AND SIGNAGE</p>	<p>TOTAL SHEETS 27</p>
	<p>DRAWN BY: GIL APPROVED BY: RG DATE: 1/2018</p>		



ATTACH NEW SCHOOL CROSSING SIGN AND
DIAGONAL DOWNWARD LEFT POINTING ARROW PLAQUE
TO BACK OF EXISTING SIGNAGE SUPPORT TO FACE EB TRAFFIC
S1-1, (36"x36"), W16-7P, (24"x12"), BLACK LEGEND AND BORDER
WITH FLUORESCENT RETROREFLECTORIZED YELLOW-GREEN BACKGROUND

EXISTING SCHOOL CROSSING SIGN
TO REMAIN IN PLACE

INSTALL NEW "NO PARKING HERE TO
CORNER" SIGNS WITH LEFT POINTING ARROW ON NEW SUPPORTS
R7-1, (12"x18"), RED LEGEND AND BORDER
ON WHITE BACKGROUND



REMOVE EXISTING ONE-WAY SIGN AND SUPPORT

RELOCATE EXISTING SCHOOL AHEAD SIGN
AND SUPPORT TO STA 2055+55
ORIENT TO FACE EB TRAFFIC

RELOCATE SAFE SCHOOL SIGN
AND SUPPORT TO STA 2057+75
REMOVE EXISTING NO PARKING SIGN

REMOVE 2-SIDED ONE WAY SIGNS
FROM EXISTING NW AND SE SUPPORTS

*NOTE: ALL ON STREET PARKING WILL HAVE DIMENSIONS
OF 7x22' UNLESS OTHERWISE INDICATED

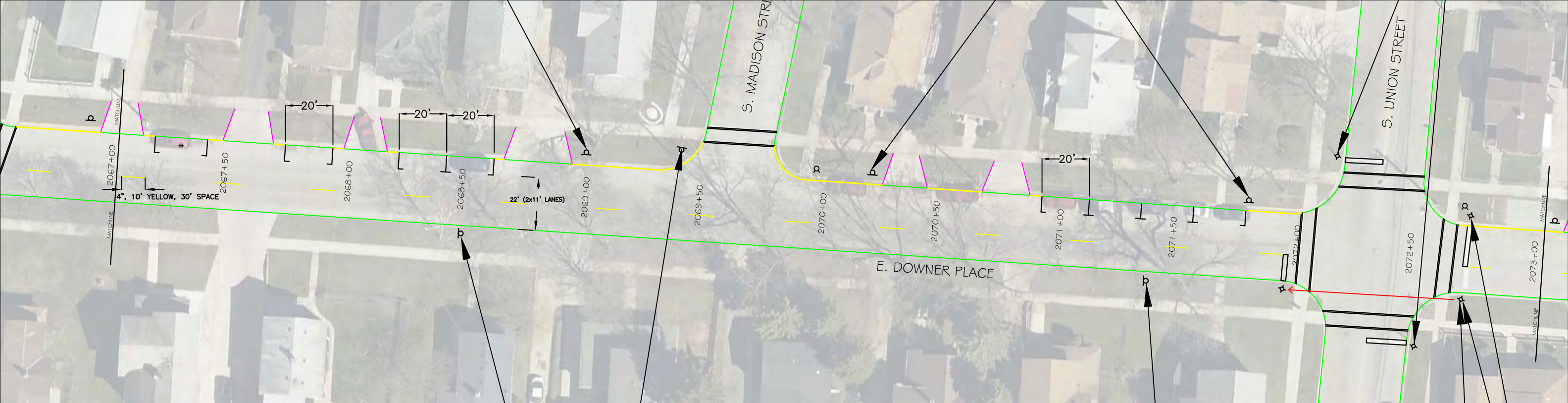
NOTE: 2016 AERIAL PHOTOGRAPHY

	CITY OF AURORA ENGINEERING DIVISION 44 EAST DOWNER PLACE	REVISIONS: REVISED 1/23/2018 BY GIL	PROJECT DOWNER PLACE TWO-WAY CONVERSION	SHEET NUMBER 10
		DESIGNED BY: GIL CHECKED BY: RG SCALE: 1" = 40'	SHEET TITLE PAVEMENT MARKINGS AND SIGNAGE	TOTAL SHEETS 27
		DRAWN BY: GIL APPROVED BY: RG DATE: 1/2018		

INSTALL NEW "NO PARKING HERE TO CORNER" SIGNS WITH RIGHT POINTING ARROW ON NEW SUPPORTS R7-1, (12"x18"), RED LEGEND AND BORDER ON WHITE BACKGROUND

REMOVE 2-SIDED ONE WAY SIGNS FROM EXISTING NW AND SE SUPPORTS

INSTALL NEW "NO PARKING HERE TO CORNER" SIGN WITH LEFT POINTING ARROW ON NEW SUPPORT R7-1, (12"x18"), RED LEGEND AND BORDER ON WHITE BACKGROUND



INSTALL NEW "NO PARKING THIS SIDE" SIGN AND NEW SUPPORT FACING EB TRAFFIC R8-3A, (12"x18"), RED LEGEND AND BORDER ON WHITE BACKGROUND

REMOVE EXISTING ONE-WAY SIGN AND SUPPORT


INSTALL NEW "NO PARKING THIS SIDE" SIGN AND NEW SUPPORT FACING EB TRAFFIC R8-3A, (12"x18"), RED LEGEND AND BORDER ON WHITE BACKGROUND

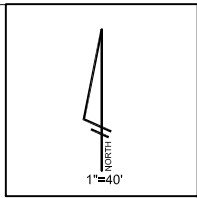
RELOCATE EXISTING STOP SIGN AND SUPPORT TO SW CORNER TO FACE EB TRAFFIC
REPLACE ALL 3-WAY PLAQUES WITH "ALL WAY" PLAQUES x4 OF R1-3P, (18"x06"), RED LEGEND AND BORDER ON WHITE BACKGROUND

REMOVE "DO NOT ENTER" SIGNS FROM EXISTING STOP SIGN SUPPORTS

*NOTE: ALL ON STREET PARKING WILL HAVE DIMENSIONS OF 7'x22' UNLESS OTHERWISE INDICATED

NOTE: 2016 AERIAL PHOTOGRAPHY

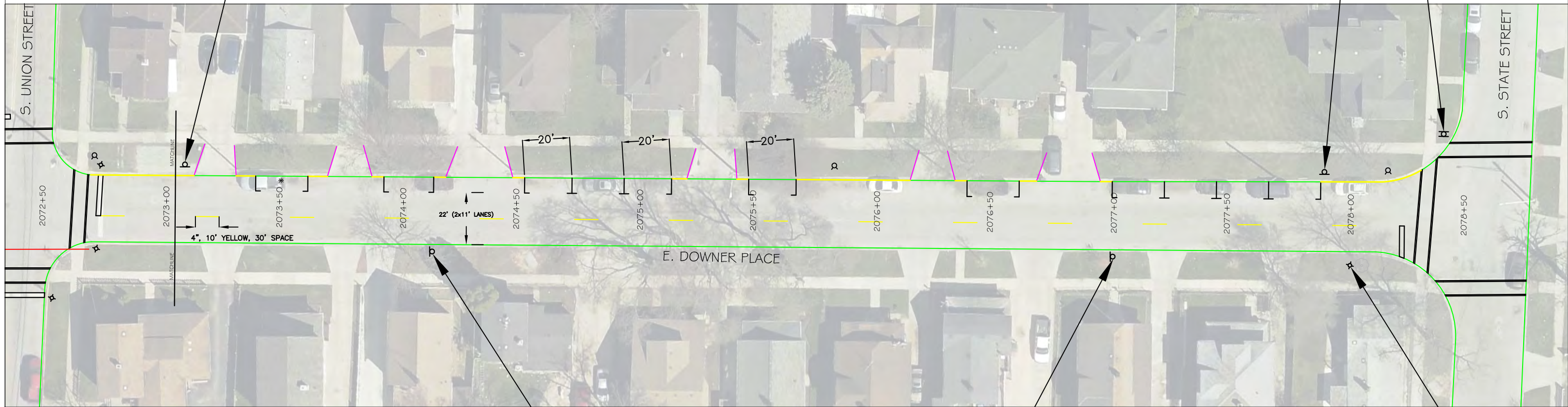
 <p>CITY OF AURORA ENGINEERING DIVISION 44 EAST DOWNER PLACE</p>	<p>REVISIONS: REVISED 1/23/2018 BY GIL</p>	<p>PROJECT DOWNER PLACE TWO-WAY CONVERSION</p>	<p>SHEET NUMBER 11</p>
	<p>DESIGNED BY: GIL CHECKED BY: RG SCALE: 1" = 40'</p>	<p>SHEET TITLE PAVEMENT MARKINGS AND SIGNAGE</p>	<p>TOTAL SHEETS 27</p>
	<p>DRAWN BY: GIL APPROVED BY: RG DATE: 1/2018</p>		



INSTALL NEW "NO PARKING HERE TO CORNER" SIGN WITH LEFT POINTING ARROW ON NEW SUPPORT R7-1, (12"x18"), RED LEGEND AND BORDER ON WHITE BACKGROUND

REMOVE EXISTING 2-SIDED ONE-WAY SIGNS FROM SUPPORT

INSTALL NEW "NO PARKING HERE TO CORNER" SIGN WITH RIGHT POINTING ARROW ON NEW SUPPORT R7-1, (12"x18"), RED LEGEND AND BORDER ON WHITE BACKGROUND




REORIENT EXISTING NO PARKING SIGNS AND SUPPORTS TO FACE EB TRAFFIC

INSTALL NEW STOP SIGN AND SUPPORT PLACE 5' WEST OF EXISTING TREE R1-1, (30"x30"), R1-3P, (18"x06"), RED LEGEND AND BORDER ON WHITE BACKGROUND

*NOTE: ALL ON STREET PARKING WILL HAVE DIMENSIONS OF 7'x22' UNLESS OTHERWISE INDICATED

NOTE: 2016 AERIAL PHOTOGRAPHY

 <p>CITY OF AURORA ENGINEERING DIVISION 44 EAST DOWNER PLACE</p>	REVISIONS: REVISED 1/23/2018 BY GIL			PROJECT DOWNER PLACE TWO-WAY CONVERSION	SHEET NUMBER 12
	DESIGNED BY: GIL	CHECKED BY: RG	SCALE: 1" = 40'	SHEET TITLE PAVEMENT MARKINGS AND SIGNAGE	TOTAL SHEETS 27
	DRAWN BY: GIL	APPROVED BY: RG	DATE: 1/2018		

TRAFFIC SIGNAL LEGEND

(NOT TO SCALE)

ITEM	EXISTING	PROPOSED	ITEM	EXISTING	PROPOSED	ITEM	EXISTING	PROPOSED
CONTROLLER CABINET			HANDHOLE -SQUARE -ROUND	 	 	SIGNAL HEAD -(P) PROGRAMMABLE SIGNAL HEAD		
COMMUNICATION CABINET			HEAVY DUTY HANDHOLE -SQUARE -ROUND	 	 	SIGNAL HEAD WITH BACKPLATE -(P) PROGRAMMABLE SIGNAL HEAD -(RB) RETROREFLECTIVE BACKPLATE		
MASTER CONTROLLER			DOUBLE HANDHOLE			PEDESTRIAN SIGNAL HEAD AT RAILROAD INTERSECTIONS		
MASTER MASTER CONTROLLER			JUNCTION BOX			PEDESTRIAN SIGNAL HEAD WITH COUNTDOWN TIMER		
UNINTERRUPTABLE POWER SUPPLY			RAILROAD CANTILEVER MAST ARM			ILLUMINATED SIGN "NO LEFT TURN"/"NO RIGHT TURN"		
SERVICE INSTALLATION -(P) POLE MOUNTED			RAILROAD FLASHING SIGNAL			NUMBER OF CONDUCTORS, ELECTRIC CABLE NO. 14, UNLESS NOTED OTHERWISE. ALL DETECTOR LOOP CABLE TO BE SHIELDED		
SERVICE INSTALLATION -(G) GROUND MOUNTED -(GM) GROUND MOUNTED METERED	 	 	RAILROAD CROSSING GATE			GROUND CABLE IN CONDUIT, NO. 6 SOLID COPPER (GREEN)		
TELEPHONE CONNECTION			RAILROAD CROSSBUCK			ELECTRIC CABLE IN CONDUIT, TRACER NO. 14 1/C		
STEEL MAST ARM ASSEMBLY AND POLE			RAILROAD CONTROLLER CABINET			COAXIAL CABLE		
ALUMINUM MAST ARM ASSEMBLY AND POLE			UNDERGROUND CONDUIT (UC), GALVANIZED STEEL			VENDOR CABLE		
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH LUMINAIRE			TEMPORARY SPAN WIRE, TETHER WIRE, AND CABLE			COPPER INTERCONNECT CABLE, NO. 18, 3 PAIR TWISTED, SHIELDED		
SIGNAL POST -(BM) BARREL MOUNTED - TEMPORARY			SYSTEM ITEM			FIBER OPTIC CABLE -NO. 62.5/125, MM12F -NO. 62.5/125, MM12F SM12F -NO. 62.5/125, MM12F SM24F		
WOOD POLE			INTERSECTION ITEM			GROUND ROD -(C) CONTROLLER -(M) MAST ARM -(P) POST -(S) SERVICE		
GUY WIRE			REMOVE ITEM					
SIGNAL HEAD			RELOCATE ITEM					
SIGNAL HEAD WITH BACKPLATE			ABANDON ITEM					
SIGNAL HEAD OPTICALLY PROGRAMMED			CONTROLLER CABINET AND FOUNDATION TO BE REMOVED					
FLASHER INSTALLATION -(FS) SOLAR POWERED	 	 	MAST ARM POLE AND FOUNDATION TO BE REMOVED					
PEDESTRIAN SIGNAL HEAD			SIGNAL POST AND FOUNDATION TO BE REMOVED					
PEDESTRIAN PUSH BUTTON -(APS) ACCESSIBLE PEDESTRIAN PUSH BUTTON	 	 	DETECTOR LOOP, TYPE I					
RADAR DETECTION SENSOR			PERFORMED DETECTOR LOOP					
VIDEO DETECTION CAMERA			SAMPLING (SYSTEM) DETECTOR					
RADAR/VIDEO DETECTION ZONE			INTERSECTION AND SAMPLING (SYSTEM) DETECTOR					
PAN, TILT, ZOOM (PTZ) CAMERA			QUEUE AND SAMPLING (SYSTEM) DETECTOR					
EMERGENCY VEHICLE LIGHT DETECTOR			WIRELESS DETECTOR SENSOR					
CONFIRMATION BEACON			WIRELESS ACCESS POINT					
WIRELESS INTERCONNECT								
WIRELESS INTERCONNECT RADIO REPEATER								

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NOTE BOOK NO.	STRUCTURE	DATE
		BY
NOTE BOOK NO.	NOT AT THIS OFFICE	DATE
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	PLOT DATE = 9/29/2016	DATE - 9/29/2016	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**DISTRICT ONE
STANDARD TRAFFIC SIGNAL DESIGN DETAILS**

SCALE: NONE SHEET 1 OF 7 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	TS-05			
		CONTRACT NO.		
ILLINOIS FED. AID PROJECT				

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CITY OF AURORA

**DISTRICT ONE STANDARD
TRAFFIC SIGNAL DESIGN DETAILS**

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

F.A.U. RTE.	PERMIT NO.	COUNTY	TOTAL SHEETS	SHEET NO.
VARIES	045-76542	KANE	27	13
		CONTRACT NO.		
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

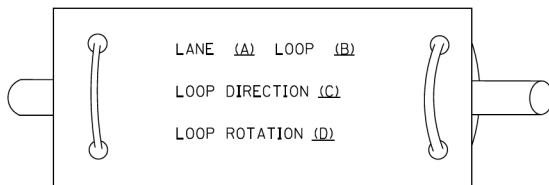
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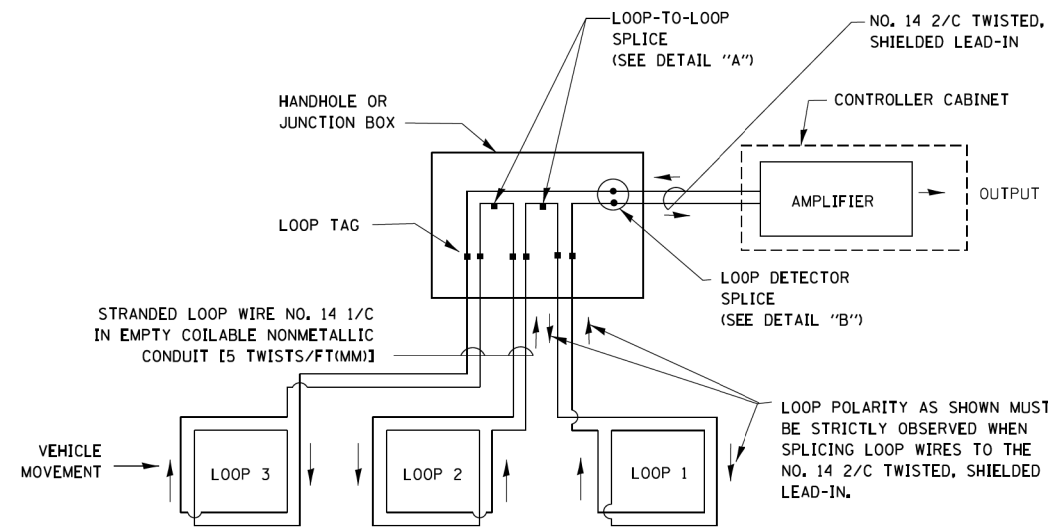
LOOP DETECTOR NOTES

1. EACH PAIR OF LOOP WIRES SHALL BE PLACED IN A SEPARATE EMPTY COILABLE NONMETALLIC CONDUIT FROM THE EDGE OF PAVEMENT TO THE HANDHOLE. SPACING BETWEEN THE HOLES DRILLED IN THE PAVEMENT SHALL NOT BE LESS THAN 6" (150 mm). EMPTY COILABLE NONMETALLIC CONDUIT SHALL BE INCLUDED IN THE COST OF THE LOOP WIRE.
2. THE NUMBER OF LOOP TURNS SHALL BE AS RECOMMENDED BY THE AMPLIFIER MANUFACTURER. ALL ADJACENT SIDES OF THE LOOPS SHALL BE INSTALLED IN SUCH A WAY THAT THE CURRENT FLOW IS IN THE SAME DIRECTION TO REINFORCE ITS MAGNETIC FIELDS FOR SMALL VEHICLE DETECTION.
3. EACH LOOP LEAD-IN SHALL BE IDENTIFIED AND PERMANENTLY TAGGED IN THE HANDHOLE. EACH LEAD-IN CABLE TAG SHALL INDICATE THE LOCATION OF THE LOOP, LOOP ROTATION (CLOCKWISE/COUNTERCLOCKWISE), LOOP LEAD-IN DIRECTION (IN OR OUT), LOOP CABLE NUMBER AND LOCATION IN CABINET, AND NUMBER OF TURNS IN THE DETECTOR LOOPS IN WATER PROOF INK AS INDICATED ON THE DISTRICT 1 STANDARD TRAFFIC SIGNAL DESIGN DETAIL. THE CONTRACTOR SHALL MARK LOOP LOCATIONS ON RECORD DRAWINGS AND PRESENT TO THE ENGINEER AFTER FINAL INSPECTION. LOOPS SHALL BE MARKED BY LANE AND LOOP NUMBER. SEE DETAIL BELOW.
4. ALL LOOP CABLE SHALL BE FASTENED WITH PLASTIC TIE WRAP TO THE HANDHOLE HOOKS.
5. IN ASPHALT PAVEMENT, LOOPS SHOULD BE PLACED IN THE BINDER AND DIVEHOLES MARKED AT THE CURB WITH A SAW-CUT. THE SAW-CUT SHALL BE CUT IN ACCORDANCE WITH LOCAL AND E.P.A. DUST CONTROL REQUIREMENTS. DETECTOR LOOP(S) SHALL NOT BE INSTALLED IN WET CONDITIONS AND THE SAW-CUTS MUST BE FREE OF DEBRIS AND RESIDUE SUCH AS DUST AND WATER WHICH IS TO BE ACHIEVED BY THE USE OF COMPRESSED AIR, WIRE BRUSHING AND HEAT DRYING ACCORDING TO SEALANT MANUFACTURER REQUIREMENTS. THE DETECTOR WIRE SHALL BE HELD IN PLACE BY THE USE OF FORM WEDGES. WEDGES SHALL BE SPACED NO MORE THAN 18" (450 mm) APART.
6. LOOP SPLICES SHALL BE SOLDERED USING A SOLDERING IRON. BLOW TORCHES OR OTHER DEVICES WHICH OXIDIZE COPPER CABLE SHALL NOT BE ALLOWED FOR SOLDERING OPERATIONS. SEE DETAIL BELOW RIGHT.
7. PREFORMED DETECTOR LOOPS SHALL BE USED, AS SHOWN ON THE PLANS, WHERE NEW CONCRETE PAVEMENT IS PROPOSED. THE INSTALLATION OF PREFORMED LOOPS SHALL BE IN ACCORDANCE WITH THE DISTRICT 1 SPECIFICATIONS OR AS DIRECTED BY THE ENGINEER.

LOOP LEAD-IN CABLE TAG

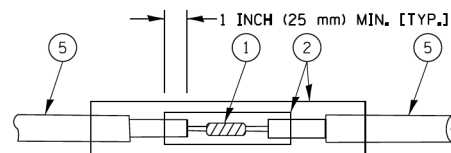


- A. LANE #1 IS THE LANE CLOSEST TO THE CENTERLINE OF THE ROADWAY
- B. LOOP #1 IS THE LOOP IN THE LANE CLOSEST TO THE INTERSECTION.
- C. LABEL LOOP CABLE "IN" OR LOOP CABLE "OUT".
- D. LABEL LOOP CABLE CLOCKWISE OR LOOP CABLE COUNTERCLOCKWISE.

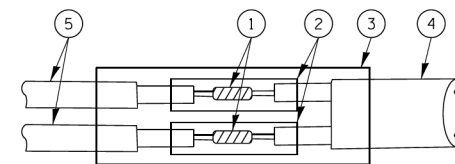


DETECTOR LOOP WIRING SCHEMATIC

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

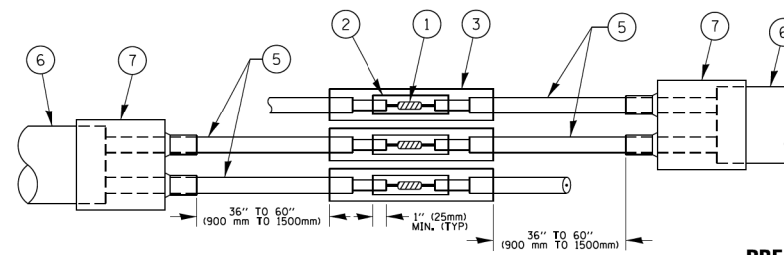


DETAIL "A"
LOOP-TO-LOOP SPLICE

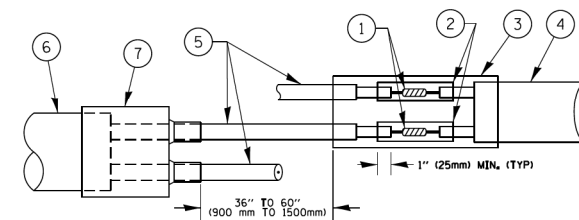


DETAIL "B"
LOOP-TO-CONTROLLER SPLICE

TYPE I LOOP



DETAIL "A"
LOOP-TO-LOOP SPLICE



DETAIL "B"
LOOP-TO-CONTROLLER SPLICE

PREFORMED LOOP

LOOP DETECTOR SPLICE

- 1 WESTERN UNION SPLICE SOLDERED WITH ROSIN CORE FLUX. ALL EXPOSED SURFACES OF THE SOLDER SHALL BE SMOOTH. THE WESTERN UNION SPLICES SHALL BE STAGGERED.
- 2 WCSMW 30/100 HEAT SHRINK TUBE, MINIMUM LENGTH 3" (75 mm), UNDERWATER GRADE.
- 3 WCS 200/750 HEAT SHRINK TUBE, MINIMUM LENGTH 6" (150 mm), UNDERWATER GRADE.
- 4 NO. 14 2/C TWISTED, SHIELDED CABLE.

- 5 LOOP CONDUCTOR WITH FLEXIBLE PLASTIC TUBE.
- 6 PREFORMED LOOP
- 7 XL POLYOLEFIN 2 CONDUCTOR BREAKOUT SEALS. TYCO CBR-2 OR APPROVED EQUAL

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		CHECKED - DAD	REVISED -
		DATE - 10-28-09	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT ONE
STANDARD TRAFFIC SIGNAL DESIGN DETAILS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			27	14
CONTRACT NO.				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

USER NAME = mfaller	DESIGNED - GF	REVISED -
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	DATE - 1/31/18	REVISED -

CITY OF AURORA

DISTRICT ONE STANDARD
TRAFFIC SIGNAL DESIGN DETAILS

F.A.U RTE.	PERMIT NO.	COUNTY	TOTAL SHEETS	SHEET NO.
			27	14
CONTRACT NO.				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

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HRG PROJ. CONTACT: 255.5190822-dawmer-dgn
FILE NAME: 20180131.dgn
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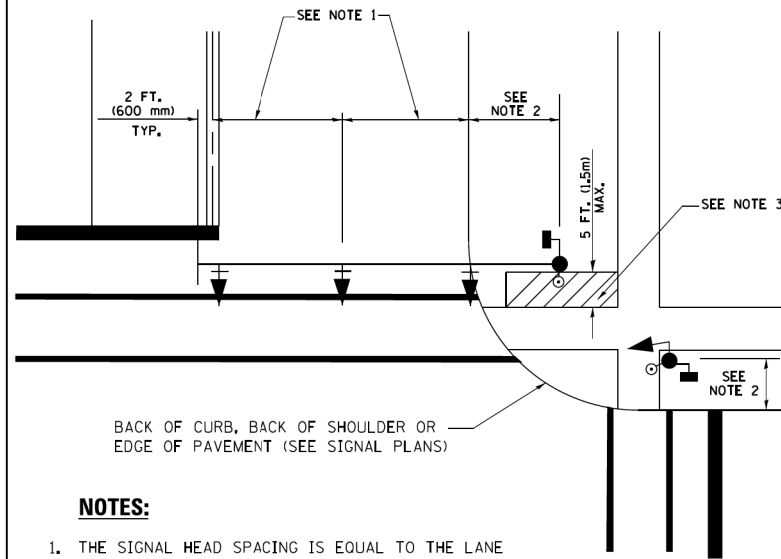


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HRG PROJECT NO.: 8860255
 HRG PROJ. CONTACT: 255.51988703.dawmer.dgn
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 PEN TABLE: p01tbl.tbl

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



NOTES:

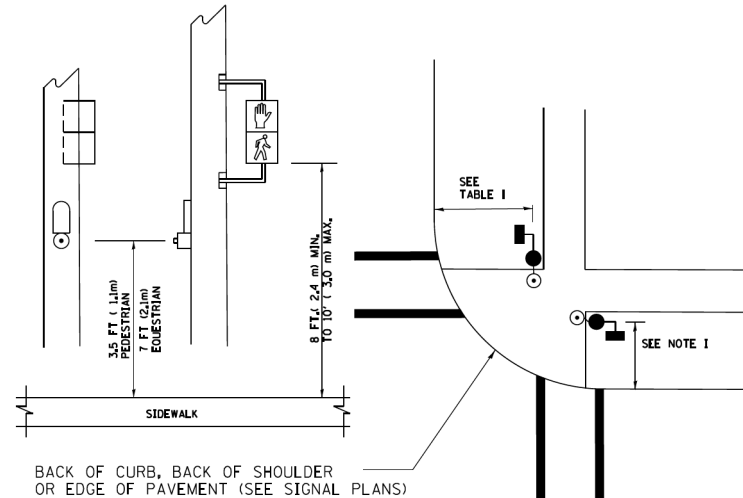
1. THE SIGNAL HEAD SPACING IS EQUAL TO THE LANE WIDTH OR AS SHOWN ON THE TRAFFIC SIGNAL PLAN.
2. REFER TO THE TRAFFIC SIGNAL EQUIPMENT OFFSET TABLE.
3. PROVIDE A LEVEL ALL-WEATHER SURFACE (CONCRETE SIDEWALK, ASPHALT BICYCLE PATH SURFACE OR MATCHING MATERIAL TO THE ADJACENT SURFACE) UP TO THE MAST ARM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

NOTES:

1. PEDESTRIAN SIGNAL HEADS SHALL BE MOUNTED WITH THE BOTTOM OF THE SIGNAL HOUSING INCLUDING BRACKETS NOT LESS THAN 8 FT (2.4 m) OR MORE THAN 10 FT (3 m) ABOVE SIDEWALK LEVEL, AND SHALL BE POSITIONED AND ADJUSTED TO PROVIDE MAXIMUM VISIBILITY AT THE BEGINNING OF THE CONTROLLED CROSSWALK.
2. THE BOTTOM OF THE SIGNAL HOUSING (INCLUDING BRACKETS) OF A VEHICULAR SIGNAL FACE THAT IS NOT LOCATED OVER A HIGHWAY SHALL BE AT LEAST 8 FT (2.4 m) BUT NOT MORE THAN 19 FT (5.8 m) ABOVE THE SIDEWALK OR, IF THERE IS NO SIDEWALK, ABOVE THE PAVEMENT GRADE AT THE CENTER OF THE ROADWAY.
3. THE BOTTOM OF THE SIGNAL HOUSING AND ANY RELATED ATTACHMENTS TO A SIGNAL FACE LOCATED OVER ANY PORTION OF A HIGHWAY SHALL BE ACCORDING TO CURRENT STATE STANDARDS 877001, 877002, 877006, 877011 AND 877012 WITH A MINIMUM OF 16 FT (5.0 m) AND A MAXIMUM OF 18 FT. (5.5 m) FROM THE HIGHEST POINT OF PAVEMENT.
4. THE BOTTOM OF THE TEMPORARY SPAN WIRE MOUNTED SIGNAL HOUSING AND ANY RELATED ATTACHMENTS TO A SIGNAL FACE LOCATED OVER ANY PORTION OF A HIGHWAY SHALL BE ACCORDING TO CURRENT STATE STANDARD 880001 WITH A MINIMUM OF 17 FT (5.18 m) FROM THE HIGHEST POINT OF PAVEMENT.
5. THE TOP OF THE SIGNAL HOUSING OF A SIGNAL FACE LOCATED OVER ANY PORTION OF A HIGHWAY SHALL NOT BE MORE THAN 25.6 FT (7.8 m) ABOVE THE PAVEMENT.

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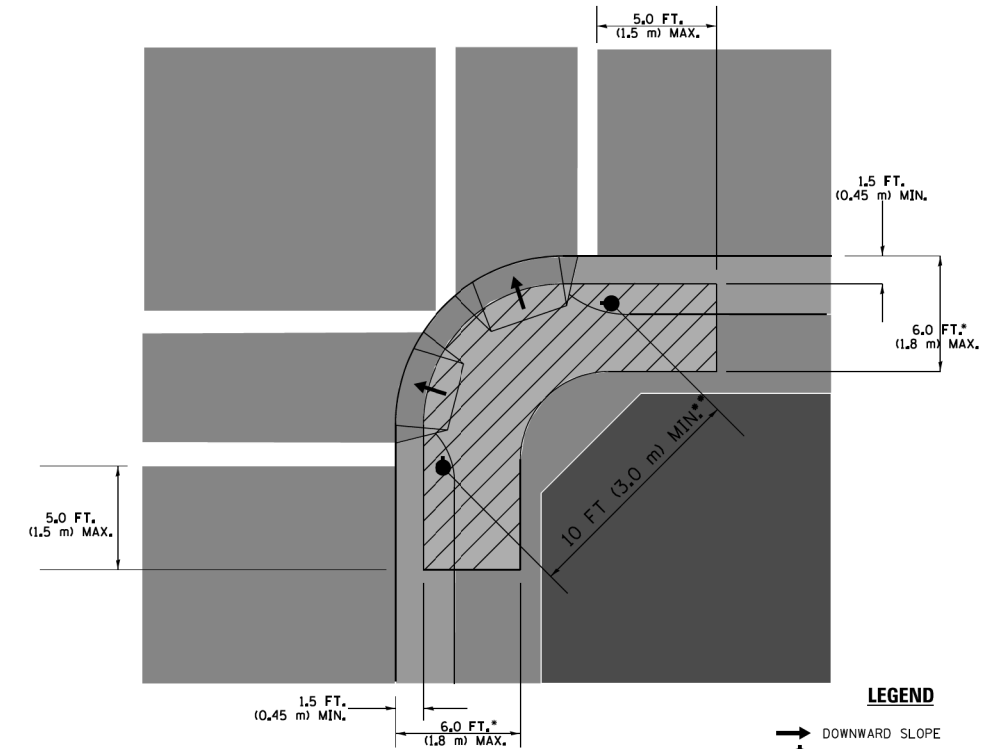
**PEDESTRIAN SIGNAL POST
 AND
 PEDESTRIAN PUSH BUTTON POST**



NOTES:

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

RECOMMENDED PUSHBUTTON LOCATIONS



LEGEND

- DOWNWARD SLOPE
- PEDESTRIAN PUSHBUTTON
- ▨ RECOMMENDED PUSHBUTTON LOCATIONS

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

TRAFFIC SIGNAL EQUIPMENT OFFSET

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

NOTES:

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

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**DISTRICT ONE
 STANDARD TRAFFIC SIGNAL DESIGN DETAILS**

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
TS-05		CONTRACT NO.		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

CITY OF AURORA

**DISTRICT ONE STANDARD
 TRAFFIC SIGNAL DESIGN DETAILS**

F.A.U. RTE.	PERMIT NO.	COUNTY	TOTAL SHEETS	SHEET NO.
VARIABLES	045-76542	KANE	27	15
		CONTRACT NO.		
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

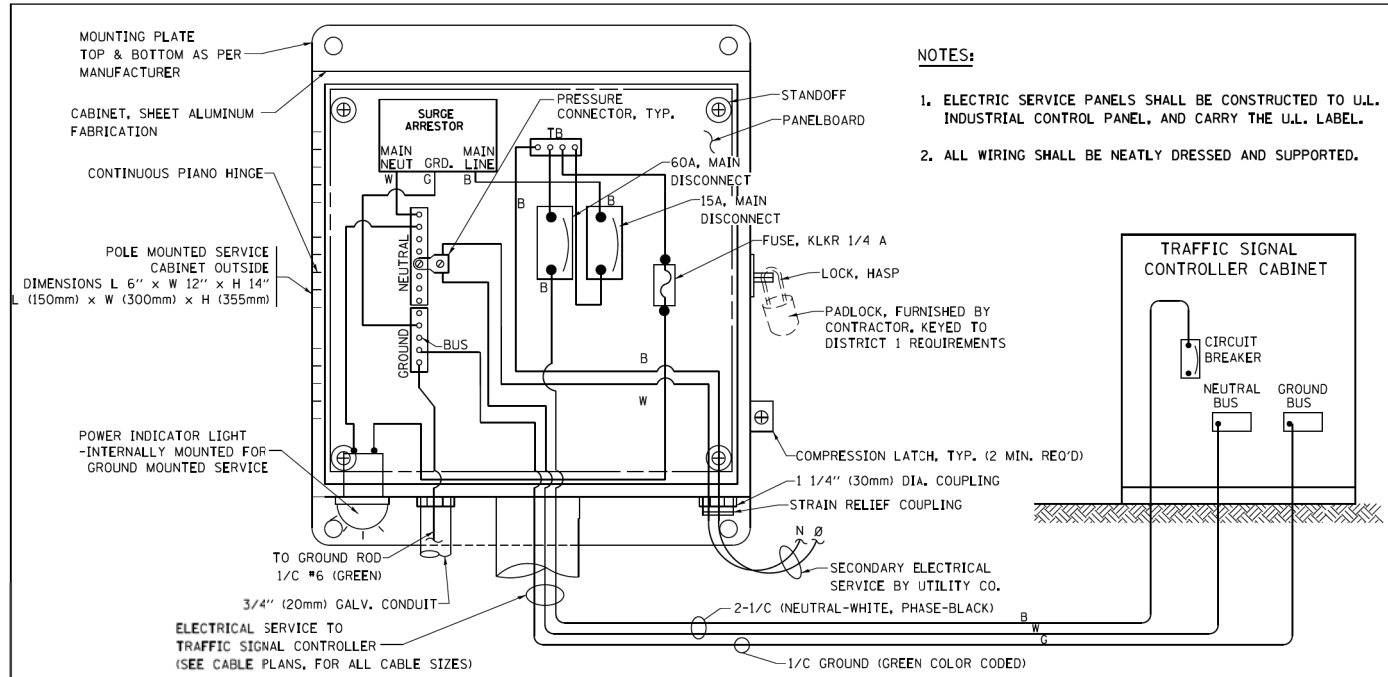
HRGreen.com
 Micro Professional Design Firm
 #184-001322

USER NAME = mfoeller	DESIGNED - GF	REVISED -
	DRAWN - RCB	REVISED -
	CHECKED - APS	REVISED -
	DATE - 1/31/18	REVISED -

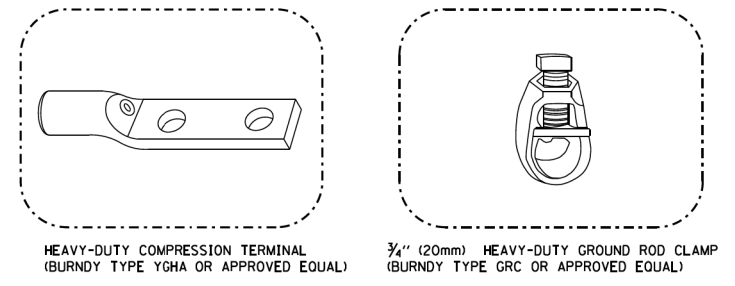
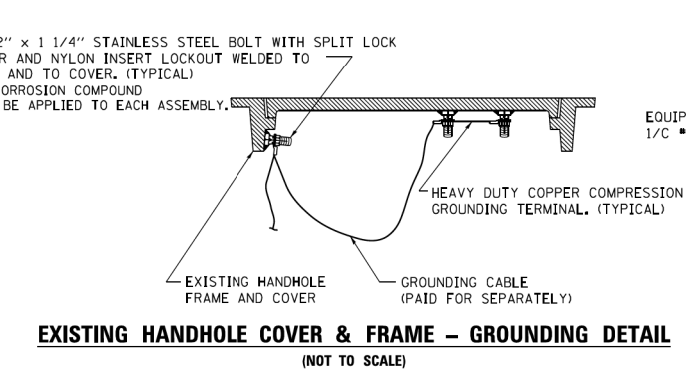
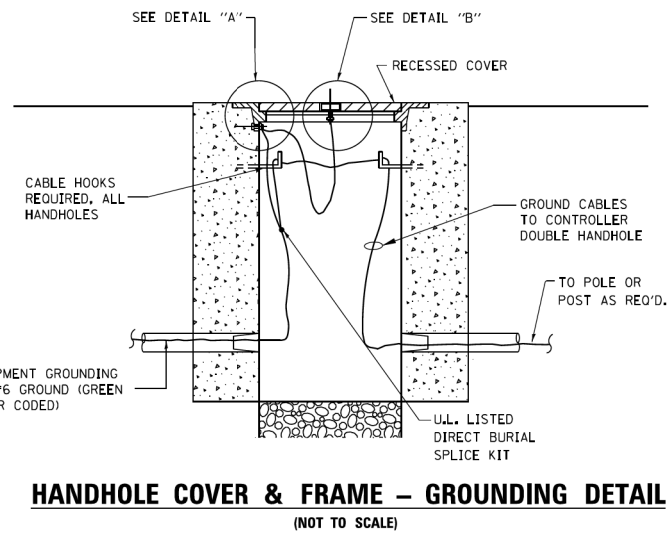
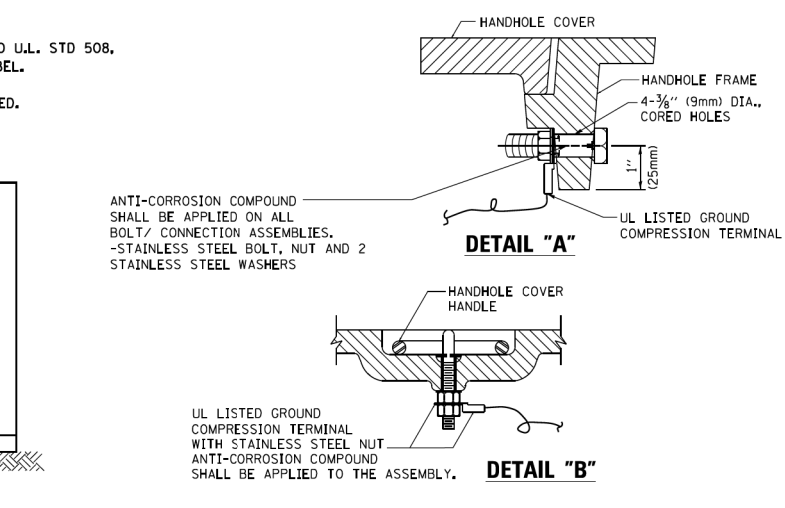
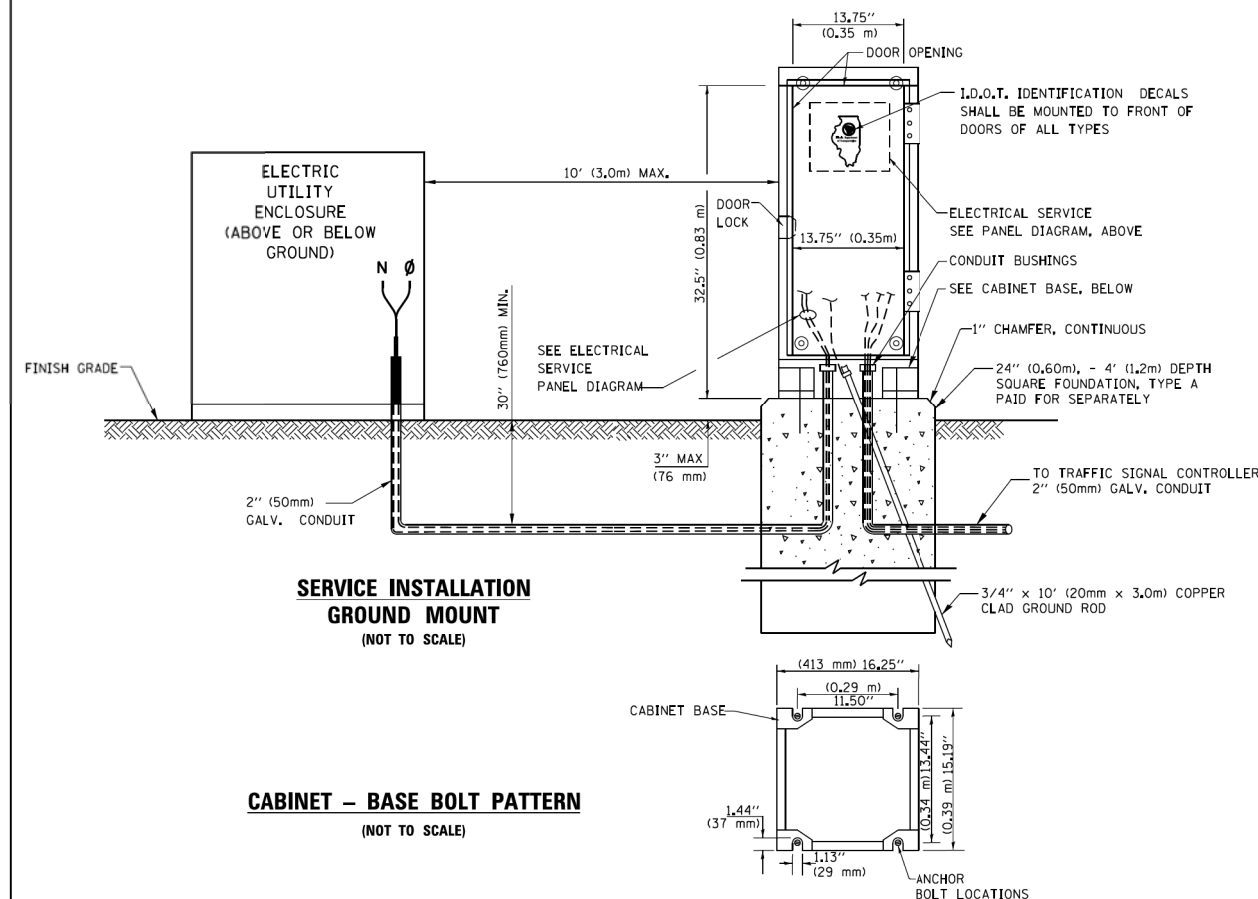
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DATE	
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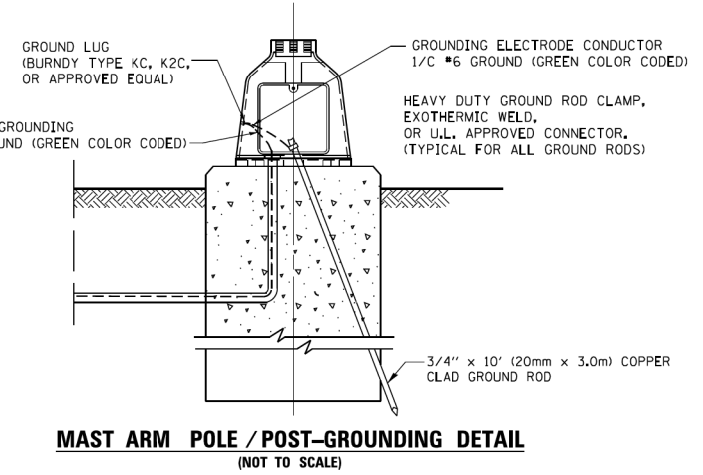


ELECTRICAL SERVICE – PANEL DIAGRAM (TYPICAL FOR POLE AND GROUND MOUNTED SERVICE)
SERVICE INSTALLATION POLE MOUNT (SHOWN)
(NOT TO SCALE)



NOTES:

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



FILE NAME =	USER NAME = foatemj	DESIGNED - DAD	REVISED - DAG 1-1-14	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DISTRICT ONE STANDARD TRAFFIC SIGNAL DESIGN DETAILS			F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN - BCK	REVISED -		SCALE: NONE	SHEET NO. 4 OF 7 SHEETS	STA.	TO STA.	TS-05		CONTRACT NO.	
		CHECKED - DAD	REVISED -						FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT			
		DATE - 10-28-09	REVISED -									

USER NAME = mfoeller	DESIGNED - GF	REVISED -
DRAWN - RCB	REVISED -	
CHECKED - APS	REVISED -	
DATE - 1/31/18	REVISED -	

CITY OF AURORA

DISTRICT ONE STANDARD TRAFFIC SIGNAL DESIGN DETAILS			
SCALE:	SHEET NO. OF SHEETS	STA.	TO STA.

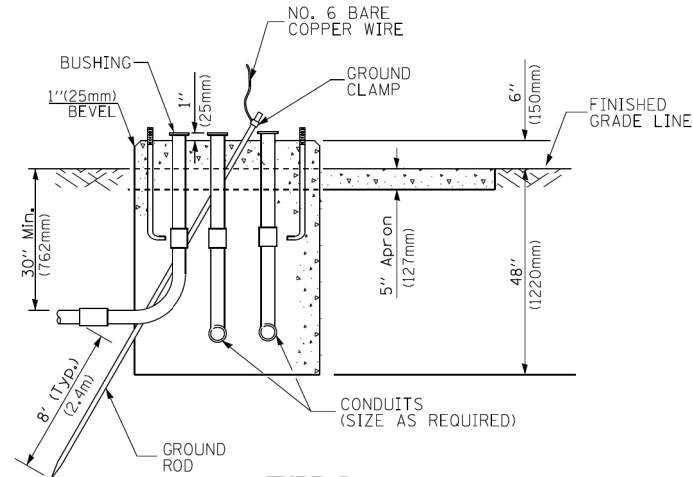
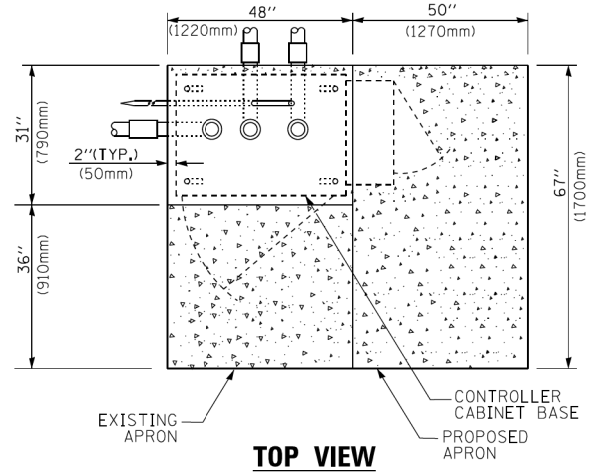
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VARIABLES	045-76542	KANE	27	16
CONTRACT NO.		CONTRACT NO.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

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FILE NAME: 255.51986704-dawmer-dgn
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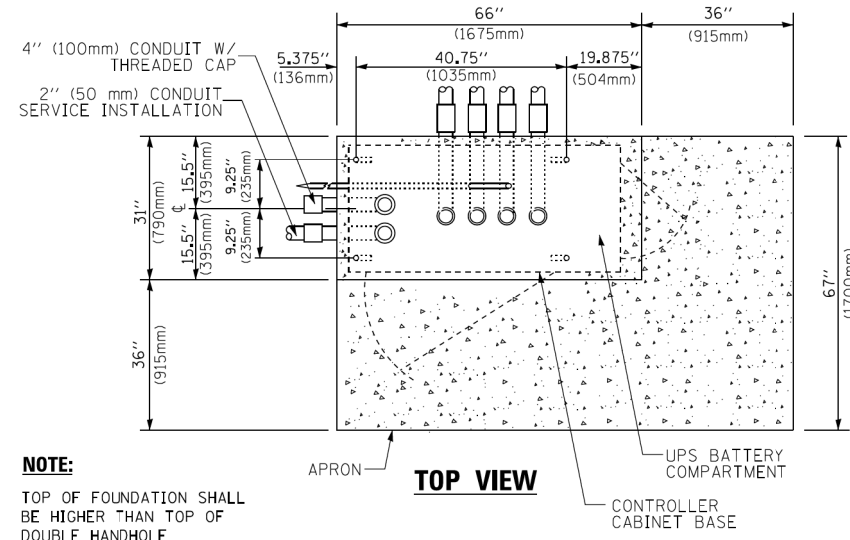


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	PLOTTED		
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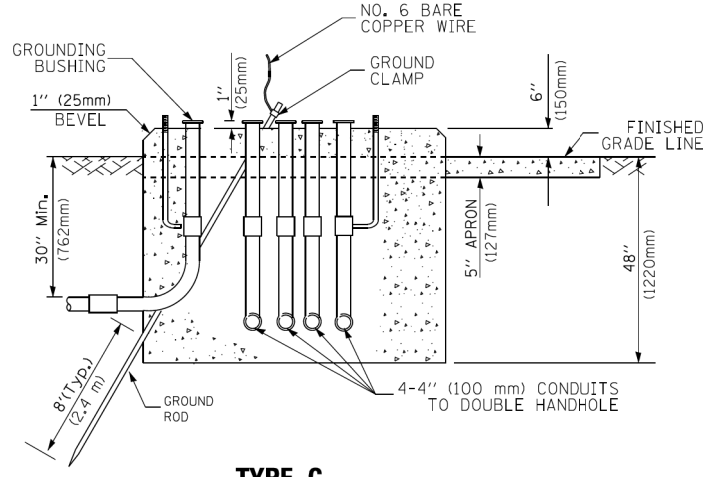
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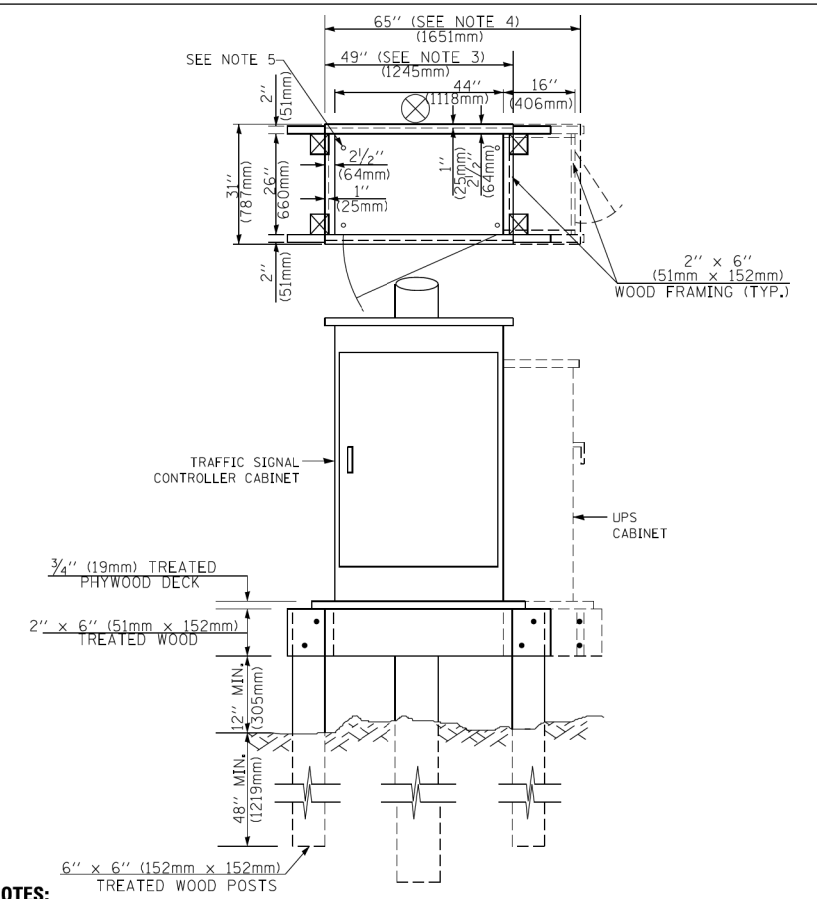
**TYPE D
FOR GROUND MOUNTED
CONTROLLER CABINET
AND UPS BATTERY CABINET**



NOTE:
TOP OF FOUNDATION SHALL BE HIGHER THAN TOP OF DOUBLE HANDHOLE



**TYPE C
FOR GROUND MOUNTED
SUPER P (TYPE IV) AND SUPER R (TYPE V)
CONTROLLER CABINETS**



- NOTES:**
- BASED ON CONTROLLER CABINET TYPE IV WITH BASE DIMENSIONS OF 26" x 44" (660mm x 1118mm). ADJUST PLATFORM SIZE TO FIT CABINET BASE DIMENSIONS BEING SUPPLIED.
 - BASED ON UNINTERRUPTIBLE POWER SUPPLY CABINET WITH BASE DIMENSIONS OF 16" x 25" (406mm x 635mm). ADJUST PLATFORM SIZE TO FIT CABINET BASE DIMENSIONS BEING SUPPLIED.
 - PLATFORM SIZE FOR CONTROLLER CABINET TYPE IV.
 - PLATFORM SIZE FOR CONTROLLER CABINET TYPE IV AND UNINTERRUPTIBLE POWER SUPPLY CABINET.
 - DRILLED HOLES THROUGH THE PLATFORM BASE TO MATCH THE CONTROLLER CABINET BOLT TEMPLATE. FASTEN THE CONTROLLER CABINET TO THE PLATFORM WITH CARRIAGE BOLTS, WASHERS AND NUTS.
 - FASTEN ALL SUPPORT WOOD FRAMING TO THE WOOD POSTS WITH 2 LAG SCREWS FOR EACH CONNECTION.

**TEMPORARY SIGNAL CONTROLLER
WOOD SUPPORT PLATFORM**

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

CABLE SLACK

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

VERTICAL CABLE LENGTH

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

DEPTH OF FOUNDATION

Mast Arm Length	① Foundation Depth	Foundation Diameter	Spiral Diameter	Quantity of Rebars	Size of Rebars
Less than 30' (9.1 m)	10'-0" (3.0 m)	30" (750mm)	24" (600mm)	8	6(19)
Greater than or equal to 30' (9.1 m) and less than 40' (12.2 m)	13'-6" (4.1 m) 11'-0" (3.4 m)	30" (750mm) 36" (900mm)	24" (600mm) 30" (750mm)	8 12	6(19) 7(22)
Greater than or equal to 40' (12.2 m) and less than 50' (15.2 m)	13'-0" (4.0 m)	36" (900mm)	30" (750mm)	12	7(22)
Greater than or equal to 50' (15.2 m) and up to 55' (16.8 m)	15'-0" (4.6 m)	36" (900mm)	30" (750mm)	12	7(22)
Greater than or equal to 56' (16.8 m) and less than 65' (19.8 m)	21'-0" (6.4 m)	42" (1060mm)	36" (900mm)	16	8(25)
Greater than or equal to 65' (19.8 m) and up to 75' (22.9 m)	25'-0" (7.6 m)	42" (1060mm)	36" (900mm)	16	8(25)

- NOTES:**
- These foundation depths are for sites which have cohesive soils (clayey silt, sandy clay, etc.) along the length of the shaft, with an average Unconfined Compressive Strength (Qu) > 1.0 tsf (100 kpa). This strength shall be verified by boring data prior to construction or with testing by the Engineer during foundation drilling. The Bureau of Bridges & Structures should be contacted for a revised design if other conditions are encountered.
 - Combination mast arm assemblies under 55 feet (16.8 m) shall use 36" (900 mm) diameter foundations.
 - Combination mast arm assemblies under 56 feet (16.8 m) through 75 feet (22.9 m) shall use 42" (1060 mm) diameter foundations.
 - For mast arm assemblies with dual arms refer to state standard 878001..

DEPTH OF MAST ARM FOUNDATIONS, TYPE E

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

DISTRICT ONE			
STANDARD TRAFFIC SIGNAL DESIGN DETAILS			
SCALE: NONE	SHEET NO. 5 OF 7 SHEETS	STA.	TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
TS-05		CONTRACT NO.		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

USER NAME = mfoeller	DESIGNED - GF	REVISED -
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	DATE - 1/31/18	REVISED -

CITY OF AURORA

DISTRICT ONE STANDARD			
TRAFFIC SIGNAL DESIGN DETAILS			
SCALE:	SHEET NO. OF SHEETS	STA.	TO STA.

F.A.U RTE.	PERMIT NO.	COUNTY	TOTAL SHEETS	SHEET NO.
VARIES	045-76542	KANE	27	17
CONTRACT NO.				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

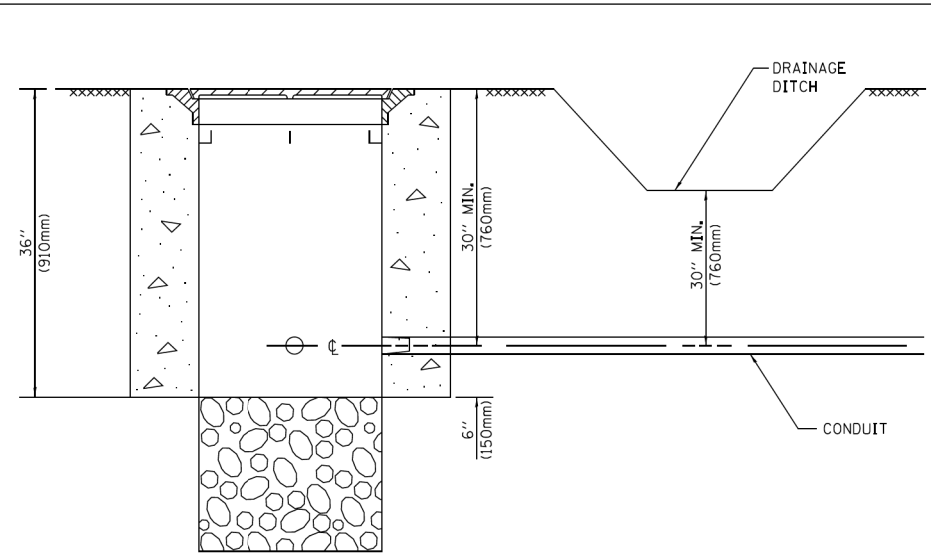
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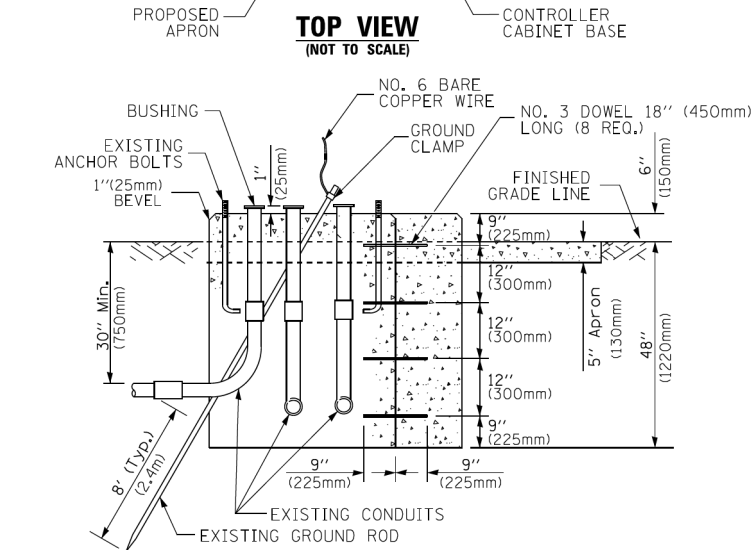
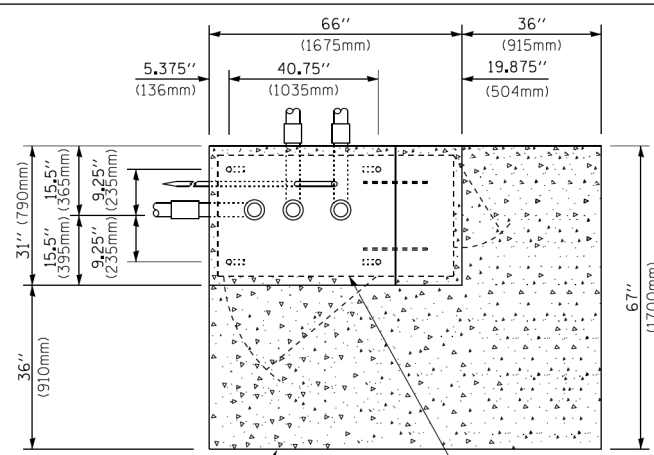
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	NOT AT THIS OFFICE		
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HRG PROJECT NO.: 8960255
 HRG PROJ. CONTACT: 255.5198@hr.com
 FILE NAME: 255_5198@06-downer-dgn
 PEN TABLE: 255_5198@06-downer-dgn



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

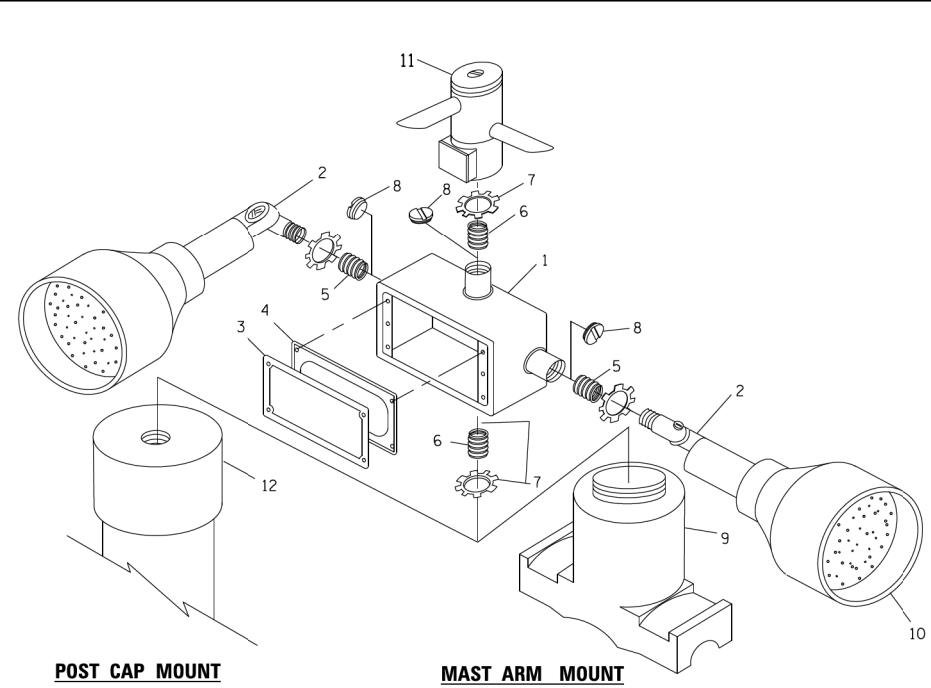
HANDHOLE WITH MINIMUM CONDUIT DEPTH
(NOT TO SCALE)



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

ITEM NO.	IDENTIFICATION
1	OUTLET BOX- GALV. 21 CU.IN. (0,000344 CU-M)
2	LAMP HOLDER AND COVER
3	OUTLET BOX COVER
4	RUBBER COVER GASKET
5	REDUCING BUSHING
6	3/4" (19 mm) CLOSE NIPPLE
7	3/4" (19 mm) LOCKNUT
8	3/4" (19 mm) HOLE PLUG
9	SADDLE BRACKET - GALV.
10	6 WATT PAR 38 LED FLOOD LAMP
11	DETECTOR UNIT
12	POST CAP [18 FT. (5,4 m) POST MIN.]

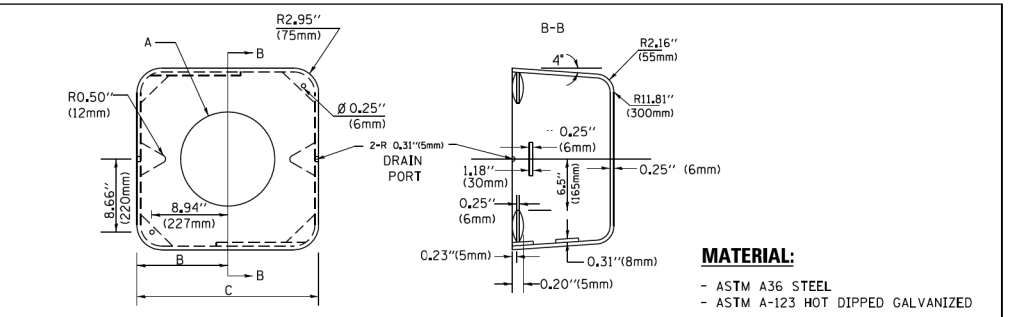
- NOTES:**
- ALL ELECTRICAL ITEMS, EXCEPT ITEMS #2 AND #11 SHALL BE ALUMINUM OR GALVANIZED
 - ITEM #1- OZ/GEDNEY FSX-1-50 OR EQUIVALENT
 ITEM #2- MULBERRY CON-O-SHADE LAMP SHIELD OR EQUIVALENT
 ITEM #9- "BAND-IT" SADDLE BRACKET OR EQUIVALENT
 - WHEN POST MOUNTING IS SPECIFIED, ITEM #9 SHALL NOT BE REQUIRED. THE DETECTION UNIT SHALL BE MOUNTED DIRECTLY ON TOP OF THE CAP BY DRILLING AND TAPPING A 3/4" (19 mm) HOLE WITH PIPE THREADS. THE POST CAP SHALL EITHER BE SCREWED TO THE TOP OF THE POST OR A MINIMUM OF 3 TIGHTENING SCREWS SHALL BE REQUIRED ON EACH CAP.



EMERGENCY VEHICLE DETECTOR WITH CONFIRMATION BEACON MOUNTING DETAIL

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

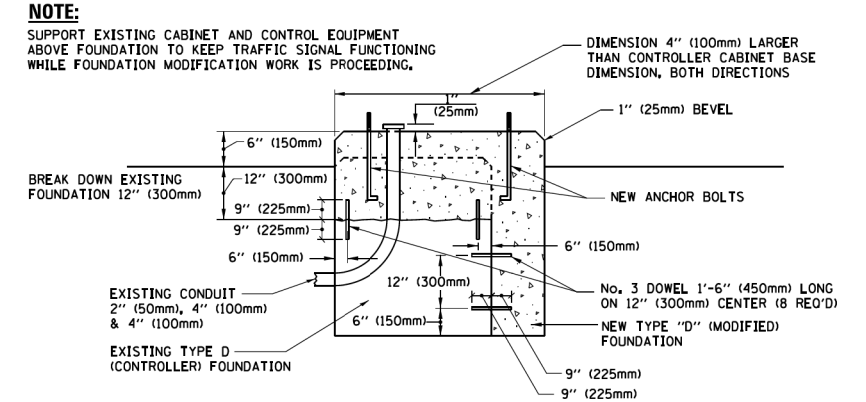
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



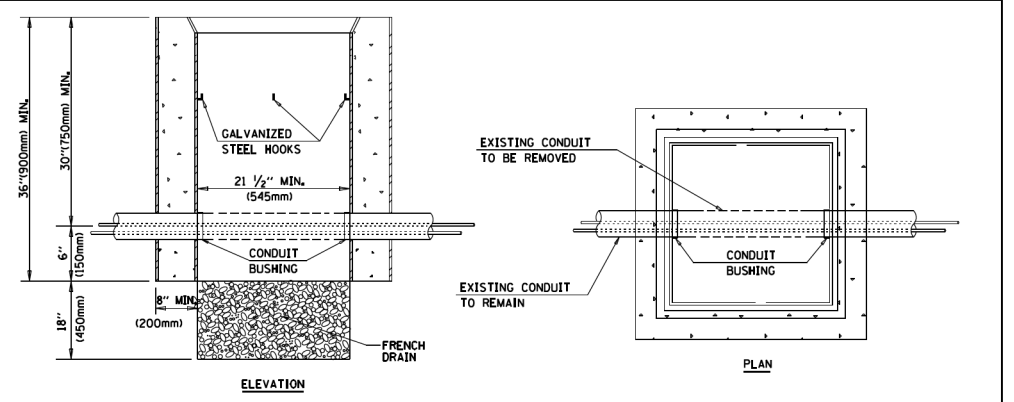
A	B	C	HEIGHT	WEIGHT
VARIES	9.5"(241mm)	19"(483mm)	7" (178mm) - 12" (300mm)	53 lbs (24kg)
VARIES	10.75"(273mm)	21.5"(546mm)	7" (178mm) - 12" (300mm)	68 lbs (31 kg)
VARIES	13.0"(330mm)	26"(660mm)	7" (178mm) - 12" (300mm)	81 lbs (37 kg)
VARIES	18.5"(470mm)	37"(940mm)	7" (178mm) - 12" (300mm)	126 lbs (57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

SHROUD

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



MODIFY EXISTING TYPE "D" FOUNDATION



- NOTES:**
- HANDHOLE CONSTRUCTED PER STATE STANDARD 814001.
 - REMOVAL OF THE EXISTING CONDUIT FROM THE HANDHOLE AND THE INSTALLATION OF THE CONDUIT BUSHINGS SHALL BE INCLUDED WITH THE COST OF THE HANDHOLE.

HANDHOLE TO INTERCEPT EXISTING CONDUIT

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 #184-001322

USER NAME = mfoeller	DESIGNED - GF	REVISED -
	DRAWN - RCB	REVISED -
	CHECKED - APS	REVISED -
	DATE - 1/31/18	REVISED -

CITY OF AURORA

DISTRICT ONE
STANDARD TRAFFIC SIGNAL DESIGN DETAILS

SCALE: NONE	SHEET NO. 6 OF 7 SHEETS	STA. TO STA.
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DISTRICT ONE STANDARD
TRAFFIC SIGNAL DESIGN DETAILS

SCALE:	SHEET NO. OF SHEETS	STA. TO STA.
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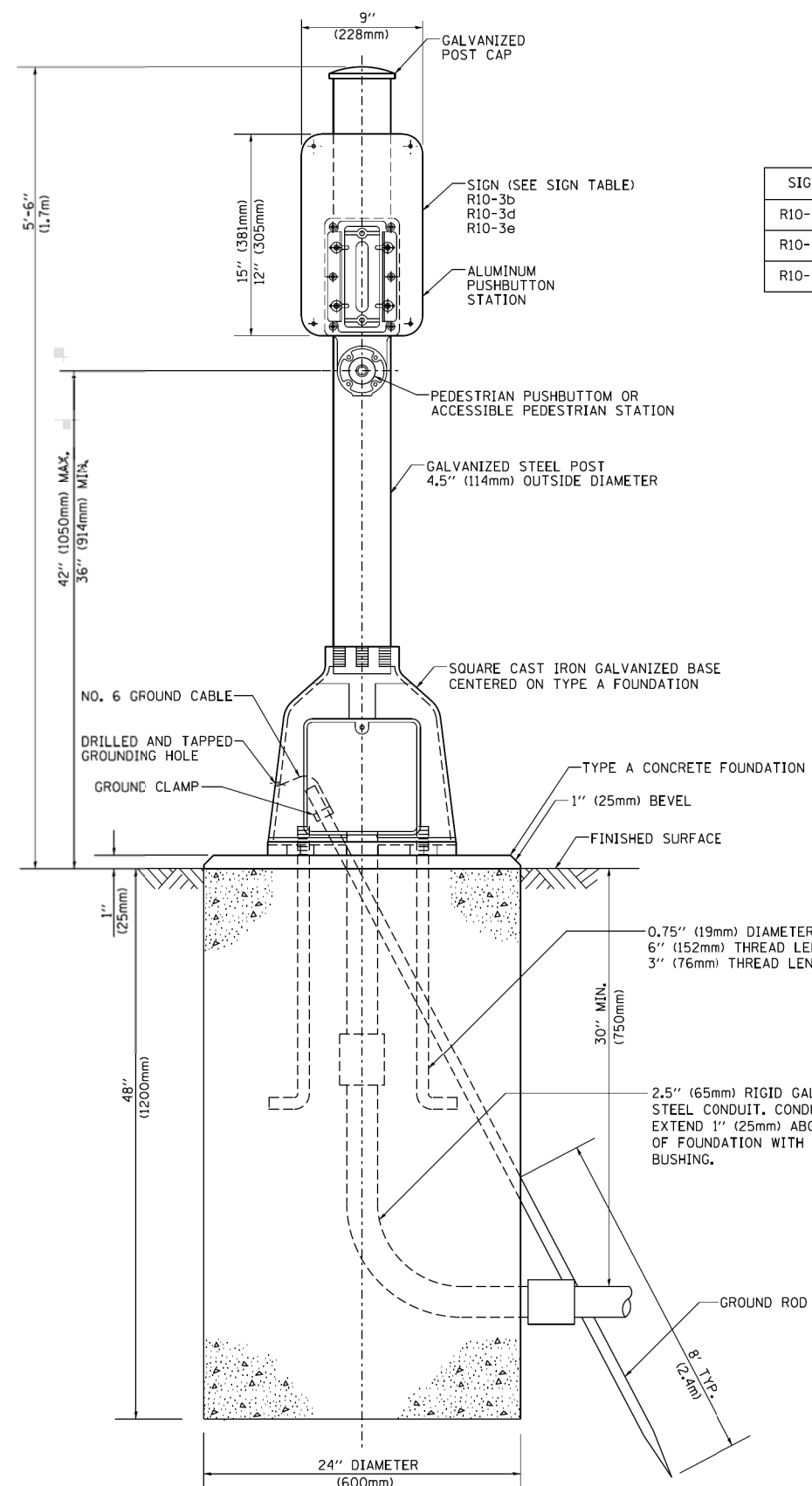
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TS-05		CONTRACT NO.		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

F.A.U. RTE.	PERMIT NO.	COUNTY	TOTAL SHEETS	SHEET NO.
VARIES	045-76542	KANE	27	18
		CONTRACT NO.		
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

PLAN	SURVEYED	DATE
	PLOTTED	BY
	GRADES CHECKED	
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	NOTE BOOK NO.	
	FILE NAME	
	DATE	

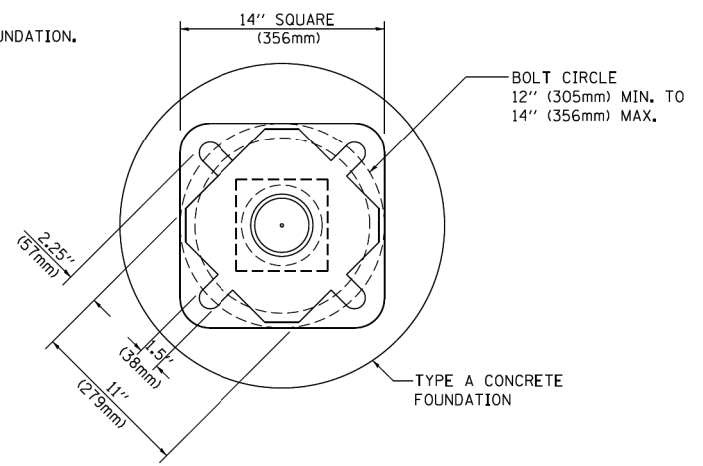
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	PLOTTED	BY
	GRADES CHECKED	
	ALIGNMENT CHECKED	
	STRUCTURE NOTATIONS CHECKED	
	NOTE BOOK NO.	
	FILE NAME	
	DATE	

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 HRG PROJ. CONTACT: 255.51988707_cdowner.dgn
 FILE NAME: 255.51988707_cdowner.dgn
 PEN TABLE: 255.51988707_cdowner.dgn



SIGN TABLE

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



BOLT PATTERN
PEDESTRIAN PUSH BUTTON POST, TYPE A

FILE NAME =	USER NAME = foatemj	DESIGNED - DAG	REVISED - DAG 1-1-14
		DRAWN - GND	REVISED -
		CHECKED - DAD	REVISED -
		DATE - 10/1/2012	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT ONE
STANDARD TRAFFIC SIGNAL DESIGN DETAILS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
TS-05		CONTRACT NO.		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

USER NAME = mfoeller	DESIGNED - GF	REVISED -
	DRAWN - RCB	REVISED -
	CHECKED - APS	REVISED -
	DATE - 1/31/18	REVISED -

CITY OF AURORA

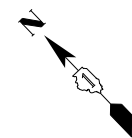
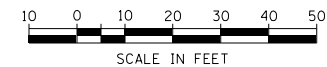
DISTRICT ONE STANDARD
TRAFFIC SIGNAL DESIGN DETAILS

F.A.U. RTE.	PERMIT NO.	COUNTY	TOTAL SHEETS	SHEET NO.
VARIES		KANE 27 19		
CONTRACT NO.				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



THE FOLLOWING EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL BE REMOVED BY THE CONTRACTOR, SHALL BECOME THE PROPERTY OF THE CITY OF AURORA AND SHALL BE DELIVERED BY THE CONTRACTOR TO EITHER MR. BOB GREENE (630-256-3200) OR MR. STEVE ZABURUNOV (630-688-8414) ALONG WITH FIVE (5) COPIES OF A LIST OF EQUIPMENT THAT IS TO REMAIN THE PROPERTY OF THE CITY IN ACCORDANCE WITH THE TRAFFIC SIGNAL SPECIFICATIONS. THIS WORK SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE FOR REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT (SEE SCHEDULE OF QUANTITIES FOR REMOVAL ITEMS TO BE PAID FOR SEPARATELY.

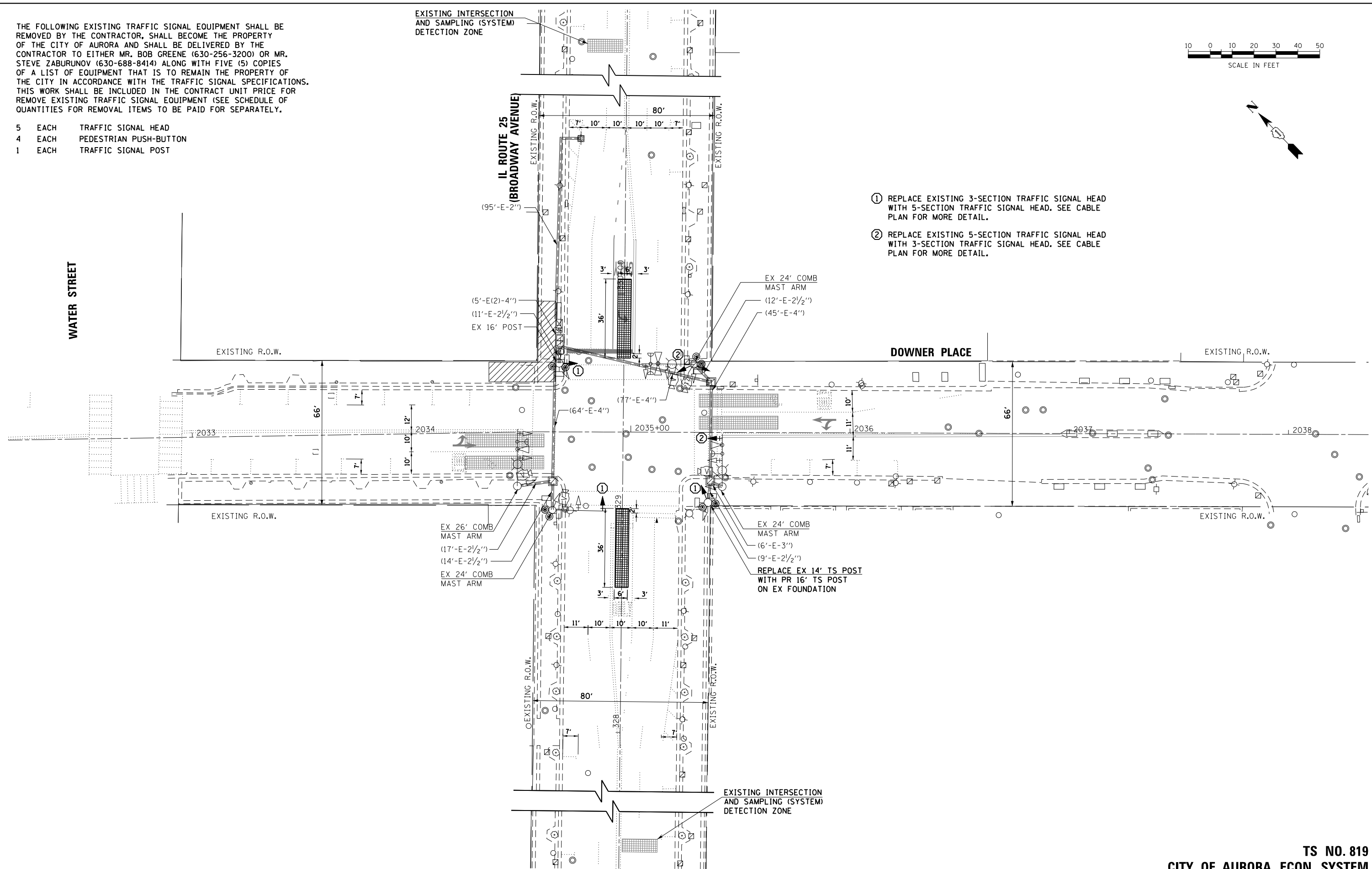
- 5 EACH TRAFFIC SIGNAL HEAD
- 4 EACH PEDESTRIAN PUSH-BUTTON
- 1 EACH TRAFFIC SIGNAL POST



PLAN	SURVEYED	DATE
	PLOTTED	BY
	ALIGNED	
	CHECKED	
	FILED	
	NO.	

PROFILE	SURVEYED	DATE
	PLOTTED	BY
	GRADES	
	CHECKED	
	STRUCTURE	
	NOTATIONS	
	CHKD	
	NO.	

HRG PROJECT NO.: 8860255
 HRG PROJ. CONTACT: 255.519282.bo.ab.d@hr.com
 FILE NAME: 255.519282.bo.ab.d@hr.com.dwg
 PEN TABLE: pen.tbl



- ① REPLACE EXISTING 3-SECTION TRAFFIC SIGNAL HEAD WITH 5-SECTION TRAFFIC SIGNAL HEAD. SEE CABLE PLAN FOR MORE DETAIL.
- ② REPLACE EXISTING 5-SECTION TRAFFIC SIGNAL HEAD WITH 3-SECTION TRAFFIC SIGNAL HEAD. SEE CABLE PLAN FOR MORE DETAIL.

REPLACE EX 14' TS POST WITH PR 16' TS POST ON EX FOUNDATION

TS NO. 819
CITY OF AURORA ECON SYSTEM



USER NAME = mfeiler	DESIGNED - GF	REVISED -
	DRAWN - RCB	REVISED -
PLOT SCALE =	CHECKED - APS	REVISED -
PLOT DATE = 1/31/2018	DATE - 1/31/18	REVISED -

CITY OF AURORA

TRAFFIC SIGNAL MODIFICATION PLAN
IL ROUTE 25 (BROADWAY AVENUE) AT DOWNER PLACE

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

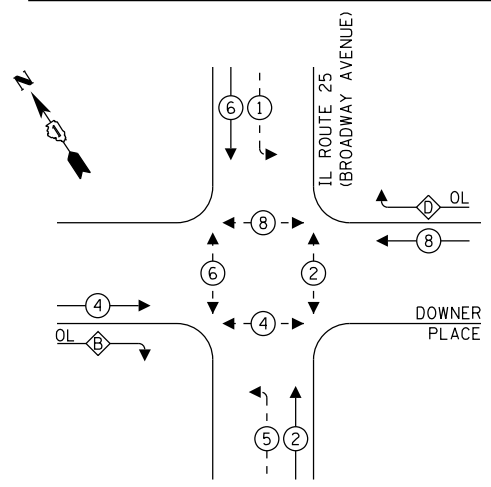
F.A.U. RTE.	PERMIT NO.	COUNTY	TOTAL SHEETS	SHEET NO.
VARIES	045-76542	KANE	27	20
CONTRACT NO.				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

PLAN	SURVEYED	DATE
	PLOTTED	
	GRADES CHECKED	
	ALIGNMENT CHECKED	
	STRUCTURE NOTATIONS CHECKED	
	NOTE BOOK NO.	
	FILE NAME	
	DATE	

PROFILE	SURVEYED	DATE
	PLOTTED	
	GRADES CHECKED	
	ALIGNMENT CHECKED	
	STRUCTURE NOTATIONS CHECKED	
	NOTE BOOK NO.	
	FILE NAME	
	DATE	

HRG PROJECT NO.: 8860295
 HRG PROJ. CONTACT: 255.519282-bc-ab-cabi-downwr-dgn
 FILE NAME: 255.519282-bc-ab-cabi-downwr-dgn
 PEN TABLE: p001tbl01.tbl

PROPOSED CONTROLLER SEQUENCE



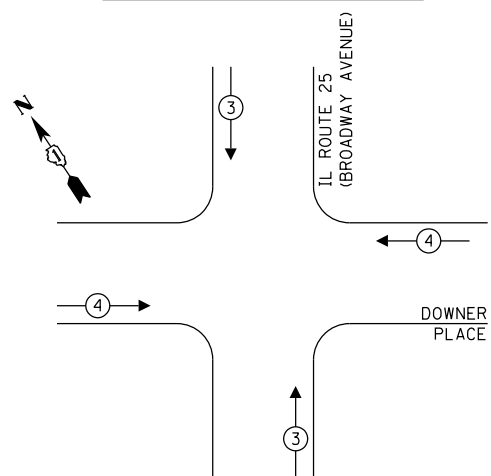
LEGEND:

- ⊛ — PROTECTED PHASE
- ⊛ — PROTECTED/PERMITTED PHASE
- ⊛ — PEDESTRIAN PHASE
- OL — OVERLAP

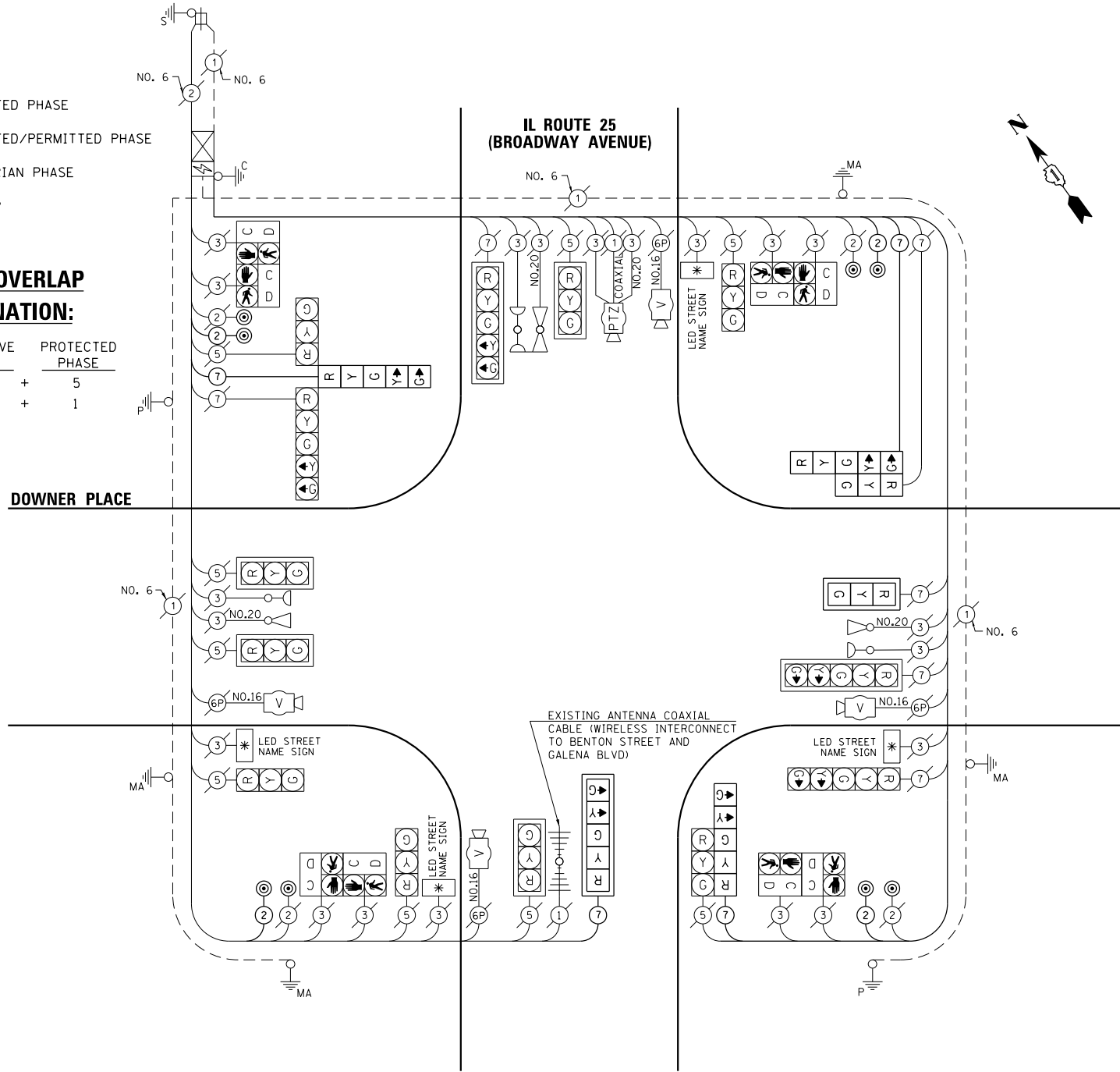
RIGHT TURN OVERLAP PHASE DESIGNATION:

OVERLAP LETTER	PERMISSIVE PHASE	PROTECTED PHASE
B	= 4	+ 5
D	= 8	+ 1

PROPOSED EMERGENCY VEHICLE PREEMPTION SEQUENCE



DOWNER PLACE



SCHEDULE OF QUANTITIES

PAY ITEM DESCRIPTION	UNIT	QUANTITY
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
PAINT NEW TRAFFIC SIGNAL POST	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	469
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	521
TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EACH	1
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	1
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	1
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	3
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED	EACH	1
TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM	EACH	2
PEDESTRIAN PUSH-BUTTON	EACH	8
REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	385
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
PAVEMENT MARKING REMOVAL - WATER BLASTING	SQ FT	416
MODIFY EXISTING CONTROLLER AND CABINET	EACH	1

I.D.O.T TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					
TYPE	NO. LAMPS	WATTAGE		% OPERATION	TOTAL WATTAGE
		INCAND.	LED		
SIGNAL (RED)	19		17	0.50	161.5
(YELLOW)	19		25	0.25	118.8
(GREEN)	19		15	0.25	71.3
ARROW	16		12	0.10	19.2
PED. SIGNAL	8		25	1.00	200
CONTROLLER	1		100	1.00	100
UPS	1		25	1.00	25
VIDEO SYSTEM	1		15	1.00	15
LED SIGN	3		60	0.50	90
TOTAL =					800.8

ENERGY COSTS TO: CITY OF AURORA
 44 E. DOWNER PLACE
 AURORA, ILLINOIS 60507-2067

ENERGY SUPPLY CONTACT: MARK SCHERIBEL
 PHONE: (630) 723-2128
 COMPANY: COMMONWEALTH EDISON



USER NAME = mfoeller	DESIGNED - GF	REVISED -
	DRAWN - RCB	REVISED -
PLOT SCALE =	CHECKED - APS	REVISED -
PLOT DATE = 1/31/2018	DATE - 1/31/18	REVISED -

CITY OF AURORA

CABLE PLAN, PHASE DESIGNATION DIAGRAM, EMERGENCY VEHICLE PREEMPTION SEQUENCE AND SCHEDULE OF QUANTITIES IL ROUTE 25 (BROADWAY AVENUE) AT DOWNER PLACE

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

F.A.U. RTE.	PERMIT NO.	COUNTY	TOTAL SHEETS	SHEET NO.
VARIES	045-76542	KANE	27	21
CONTRACT NO.				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

TS NO. 819
CITY OF AURORA ECON SYSTEM

PLAN	SURVEYED	BY	DATE
	PLOTTED		
	ALIGNMENT CHECKED		
	GRADE CHECKED		
	STRUCTURE NOTATIONS CHECKED		
	FILE NAME		
	NO.		

PROFILE	SURVEYED	BY	DATE
	PLOTTED		
	GRADES CHECKED		
	STRUCTURE NOTATIONS CHECKED		
	FILE NAME		
	NO.		

HRG PROJECT NO.: 8960255
 HRG PROJ. CONTACT: 255.09.01.dowm@hr.com
 FILE NAME: 18011819
 PEN TABLE: 18011819

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 #184-001322

FILE NAME =	USER NAME = footerj	DESIGNED - L.H.A.	REVISED - A. HOUSEH 10-15-96
p:\18011819\INTEG\1118011819\IDOT\Documents\DOT_Offices\District_1\Projects\Dist_1\DRAWN\CADD\to\CAD\sheet\18011819.dgn		CHECKED -	REVISED - T. RAMMACHER 01-06-00
Default	PLOT SCALE = 50,000' / in.	DATE - 06-89	REVISED - A. SCHJETZE 07-01-13
	PLOT DATE = 9/15/2016		REVISED - A. SCHJETZE 09-15-16

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS			
SCALE: NONE	SHEET 1	OF 1 SHEETS	STA. TO STA.

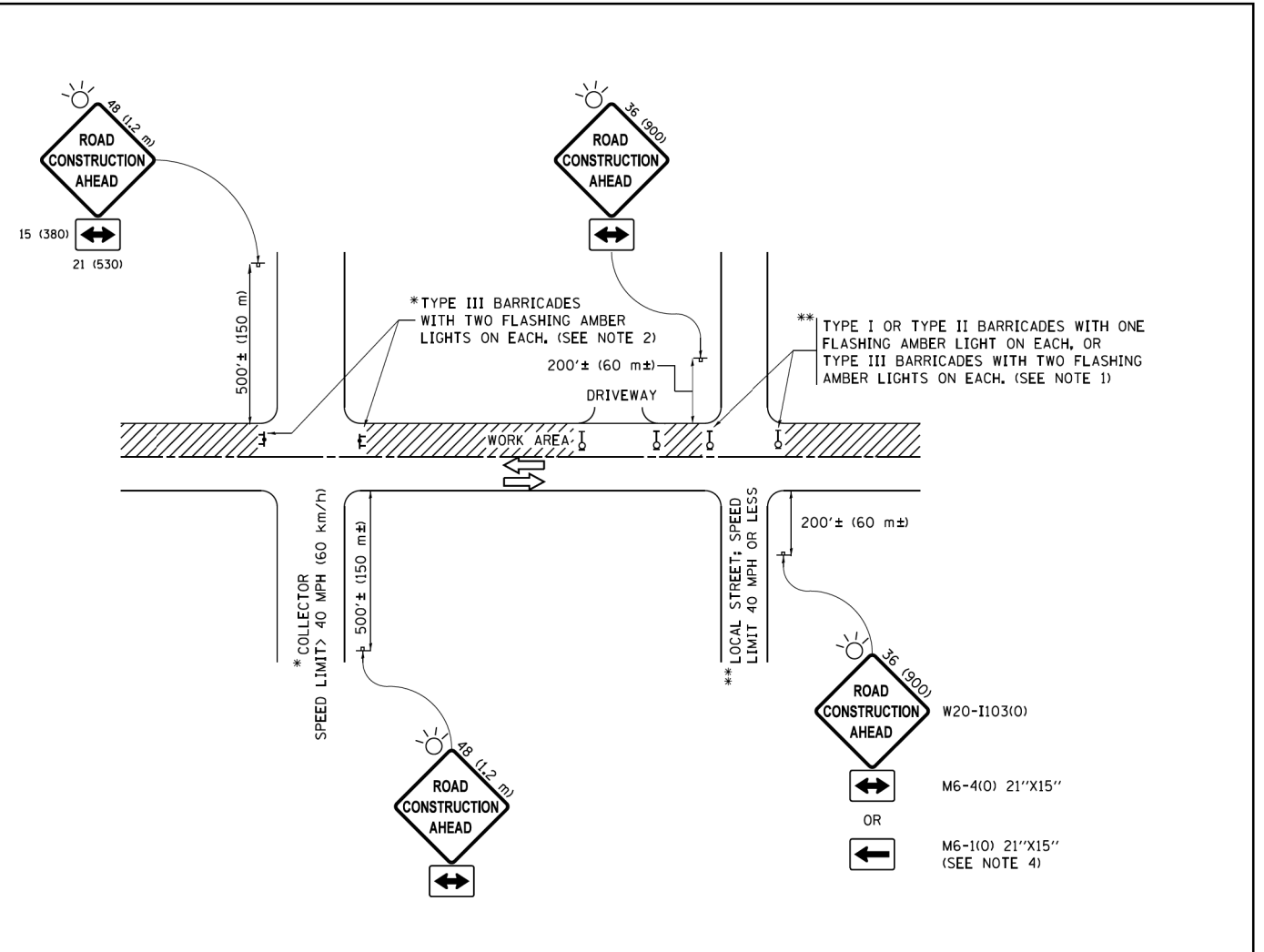
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	TC-10			
CONTRACT NO.		ILLINOIS FED. AID PROJECT		

USER NAME = mfoeller	DESIGNED - GF	REVISED -
	DRAWN - RCB	REVISED -
PLOT SCALE =	CHECKED - APS	REVISED -
PLOT DATE = 1/31/2018	DATE - 1/31/18	REVISED -

CITY OF AURORA

MISCELLANEOUS DETAILS			
SCALE:	SHEET NO.	OF SHEETS	STA. TO STA.

F.A.U. RTE.	PERMIT NO.	COUNTY	TOTAL SHEETS	SHEET NO.
VARIES	045-76542	KANE	27	22
CONTRACT NO.		ILLINOIS FED. AID PROJECT		



NOTES:

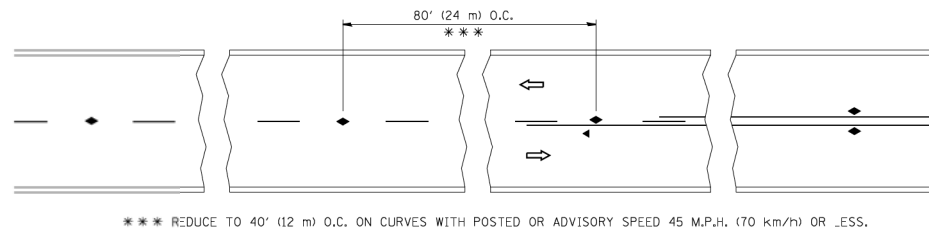
- SIDE ROAD WITH A SPEED LIMIT OF 40 MPH (60 km/h) OR LESS AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
 - ONE "ROAD CONSTRUCTION AHEAD" SIGN 36 x 36 (900x900) WITH A FLASHER MOUNTED ON IT APPROXIMATELY 200' (60 m) IN ADVANCE OF THE MAIN ROUTE.
 - THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE I, TYPE II OR TYPE III BARRICADES, 1/3 OF THE CROSS SECTION OF THE CLOSED PORTION.
- SIDE ROAD WITH A SPEED LIMIT GREATER THAN 40 MPH (60 km/h) AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
 - ONE "ROAD CONSTRUCTION AHEAD" SIGN 48 x 48 (1.2 m x 1.2 m) WITH A FLASHER MOUNTED ON IT APPROXIMATELY 500' (150 m) IN ADVANCE OF THE MAIN ROUTE.
 - THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE III BARRICADES, 1/2 OF THE CROSS SECTION OF THE CLOSED PORTION.
- CONES MAY BE SUBSTITUTED FOR BARRICADES OR DRUMS AT HALF THE SPACING DURING DAY OPERATIONS. CONES SHALL BE A MINIMUM OF 28 (710) IN HEIGHT.
- WHEN THE SIDE ROAD LIES BETWEEN THE BEGINNING OF THE MAINLINE SIGNING AND THE WORK ZONE, A SINGLE HEADED ARROW (M6-1) SHALL BE USED IN LIEU OF THE DOUBLE HEADED ARROW (M6-4).
- WHEN WORK IS BEING PERFORMED ON A SIDE ROAD OR DRIVEWAY, FOLLOW THE APPLICABLE STANDARD(S). THE DIRECTIONAL ARROW (M6-1 OR M6-4) SHALL BE COVERED OR REMOVED WHEN NO LONGER CONSISTENT WITH THE TRAFFIC CONTROL SET-UP.
- ADVANCE WARNING SIGNS ARE TO BE OMITTED ON DRIVEWAYS UNLESS OTHERWISE SPECIFIED IN THE PLANS OR BY THE ENGINEER.
- THE TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS SHALL BE INCLUDED IN THE COST OF SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.

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

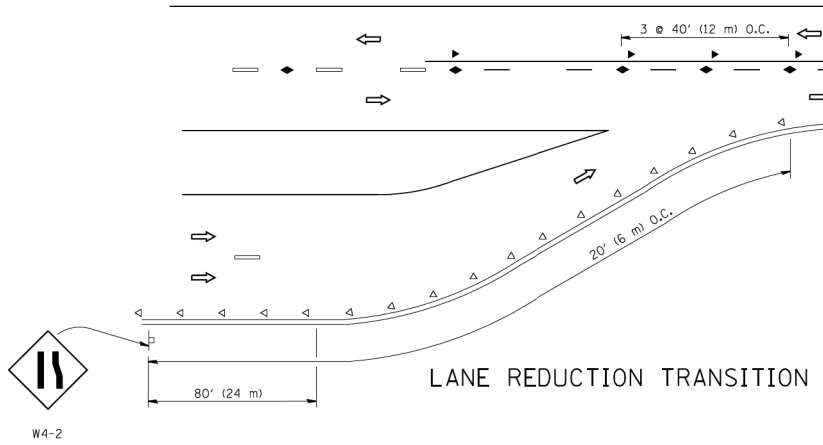
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NOTE BOOK	PLOTTED	BY
NO.	ALIGNMENT	
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PROFILE	SURVEYED	DATE
NOTE BOOK	PLOTTED	BY
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	NOTATIONS	

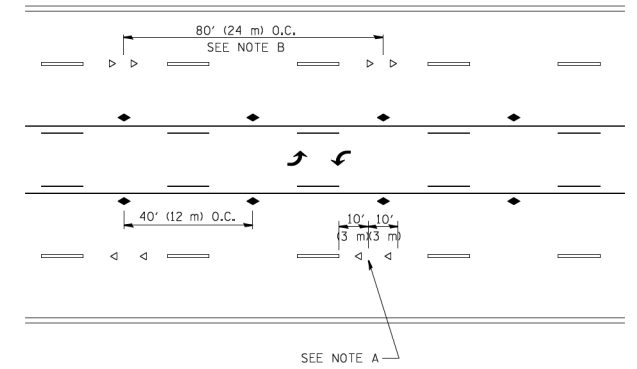
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 HRG PROJ. CONTACT: 255.09.02.downer.dgn
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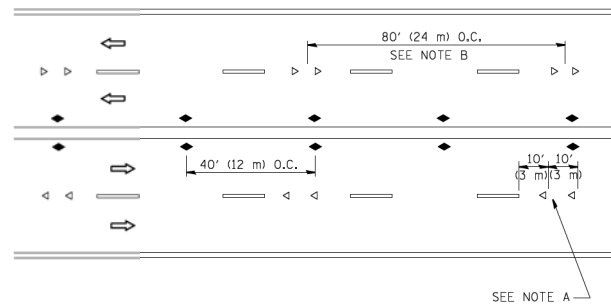
TWO-LANE/TWO-WAY



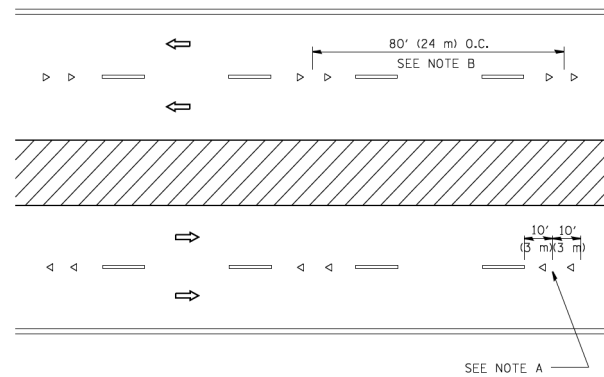
LANE REDUCTION TRANSITION



TWO-WAY LEFT TURN



MULTI-LANE/UNDIVIDED



MULTI-LANE/DIVIDED

GENERAL NOTES

1. MARKERS USED WITH DASHED LINES SHALL BE CENTERED IN THE GAP BETWEEN SEGMENTS.
2. MARKERS USED ADJACENT TO SOLID LINES SHALL BE OFFSET 2 TO 3 (50 TO 75) TOWARD TRAFFIC AS SHOWN.
3. MARKERS THROUGH TANGENTS LESS THAN 500' (150 m) IN LENGTH BETWEEN CURVES SHALL BE INSTALLED AT THE LESSER OF THE TWO CURVE SPACINGS.

LANE MARKER NOTES

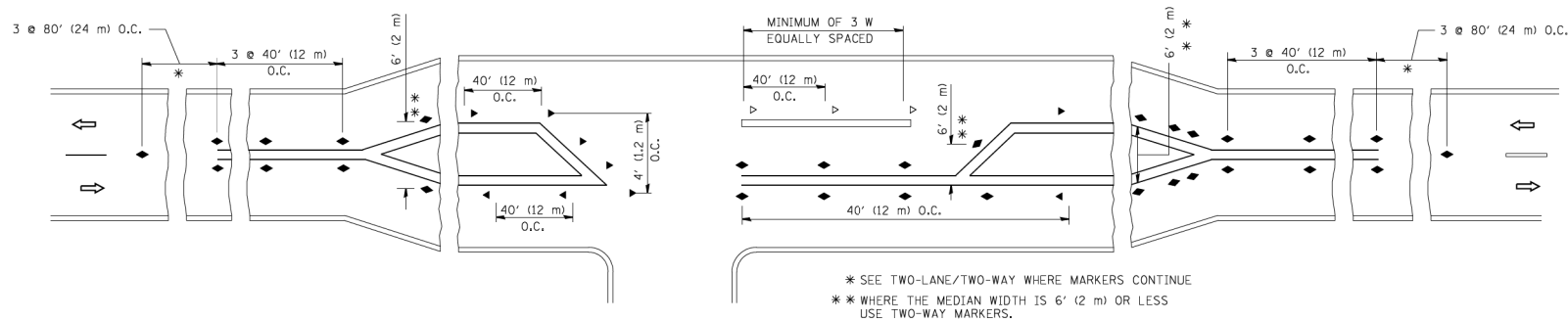
- A. USE DOUBLE LANE LINE MARKERS SPACED AS SHOWN.
- B. REDUCE TO 40' (12 m) O.C. ON CURVES WHERE ADVISORY SPEEDS ARE 10 M.P.H. (20 km/h) LOWER THAN POSTED SPEEDS.

SYMBOLS

- YELLOW STRIPE
- WHITE STRIPE
- ◀ ONE-WAY AMBER MARKER
- ◁ ONE-WAY CRYSTAL MARKER (W/O)
- ◆ TWO-WAY AMBER MARKER

DESIGN NOTES

1. DOUBLE LANE LINE MARKERS SHALL BE USED UNLESS SPECIFIED OTHERWISE.
2. EXCEPT AS SHOWN ON THE LANE REDUCTION TRANSITION AND FREEWAY EXIT RAMP DETAIL, MARKERS ARE NOT TO BE SPECIFIED ON RIGHT EDGE LINES.
3. THE EXACT MARKER LIMITS, SPACING, AND COLOR SHALL BE INCLUDED IN THE PLANS WHEN STANDARD SPECIFICATIONS ARE NOT BEING USED.
4. MARKERS SHOULD NOT BE USED ALONGSIDE CURBS EXCEPT FOR EXTREMELY SHORT SECTIONS OF CURBS WHERE NOT MORE THAN TWO MARKERS WOULD BE INVOLVED.



LEFT TURN

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

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	PLOT SCALE = 50.000' / IN.	DRAWN -	REVISED - T. RAMMACHER 03-12-99		SCALE: NONE	SHEET NO. 1	OF 1	SHEETS	STA.	TO STA.	TC-11 CONTRACT NO.		
	PLOT DATE = 3/2/2011	CHECKED -	REVISED - T. RAMMACHER 01-06-00						FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				
		DATE -	REVISED - C. JUCIUS 09-09-09										

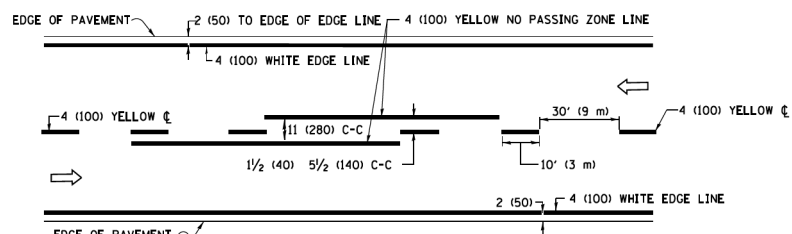
USER NAME = mfoeller	DESIGNED -	REVISED -	CITY OF AURORA	MISCELLANEOUS DETAILS				F.A.U. RTE.	PERMIT NO.	COUNTY	TOTAL SHEETS	SHEET NO.
PLOT SCALE =	DRAWN -	REVISED -		SCALE:	SHEET NO.	OF	SHEETS	STA.	TO STA.	VARIES 045-76542 KANE 27 23 CONTRACT NO.		
PLOT DATE = 1/31/2018	CHECKED -	REVISED -						FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				
	DATE - 1/31/18	REVISED -										



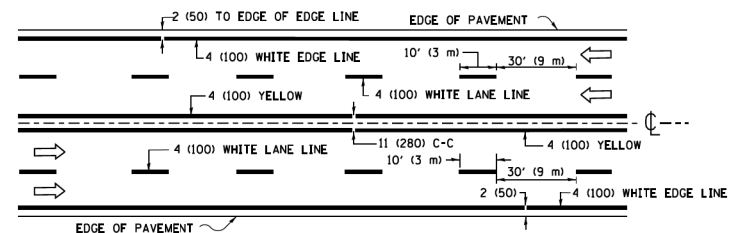
HRGreen.com
 Illinois Professional Design Firm
 # 184-001322

DATE	
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PLAN	
SURVEYED	
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OTHER	
GRADES CHECKED	
NOTE BOOK	
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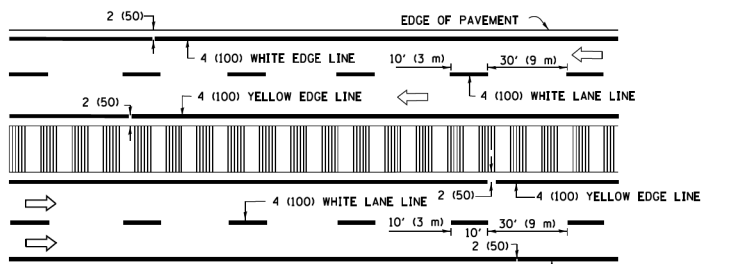
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PROFILE	
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2-LANE ROADWAY

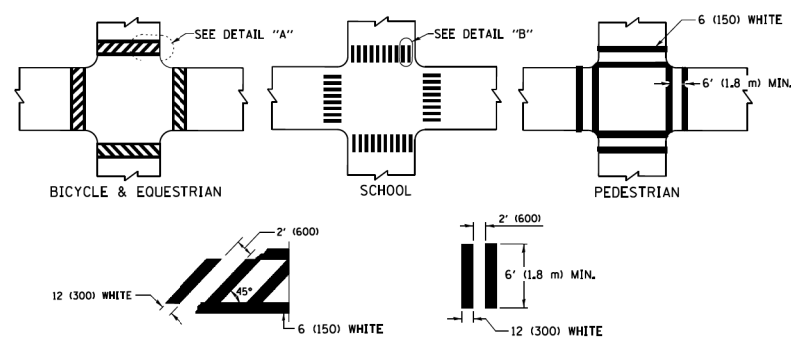


MULTI-LANE UNDIVIDED



MULTI-LANE DIVIDED WITH MEDIAN

TYPICAL LANE AND EDGE LINE MARKING

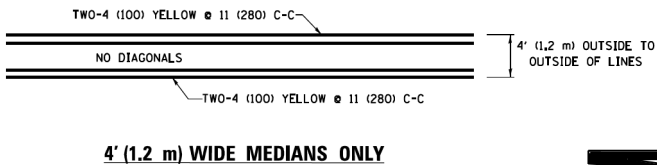


DETAIL "A"

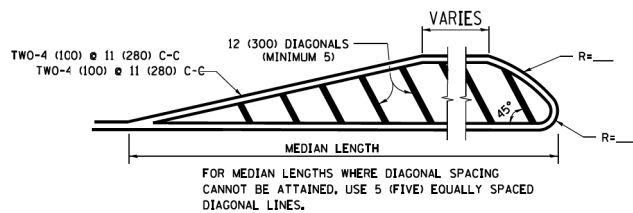
DETAIL "B"

TYPICAL CROSSWALK MARKING

* MARKINGS SHALL BE INSTALLED PARALLEL TO THE CENTERLINE OF THE ROAD WHICH IT CROSSES

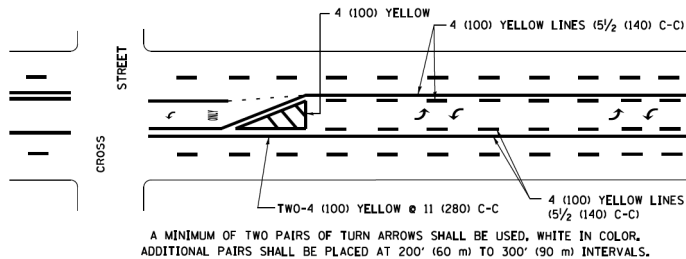


4' (1.2 m) WIDE MEDIANS ONLY

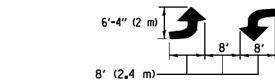


MEDIANS OVER 4' (1.2 m) WIDE

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

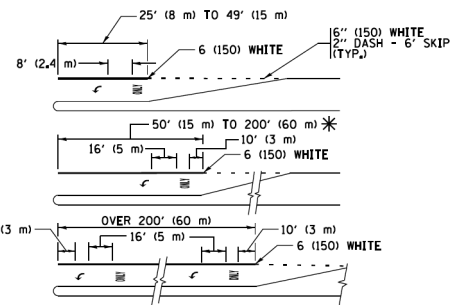


MEDIAN WITH TWO-WAY LEFT TURN LANE
TYPICAL PAINTED MEDIAN MARKING



MEDIAN WITH TWO-WAY LEFT TURN LANE

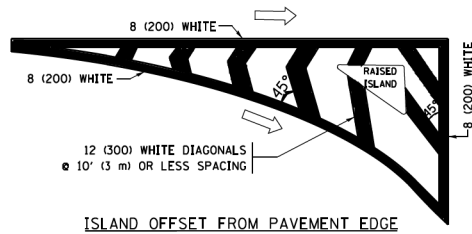
TYPICAL PAINTED MEDIAN MARKING



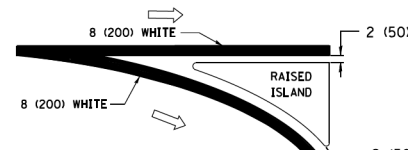
TYPICAL LEFT (OR RIGHT) TURN LANE

TYPICAL TURN LANE MARKING

FULL SIZE LETTERS 8' (2.4 m) AND ARROWS SHALL BE USED.
AREA = 15.6 SQ. FT. (1.5 m²) ONLY AREA = 20.8 SQ. FT. (1.9 m²)
* TURN LANES IN EXCESS OF 400' (120 m) IN LENGTH MAY HAVE AN ADDITIONAL SET OF ARROW - "ONLY" INSTALLED MIDWAY BETWEEN THE OTHER TWO SETS OF ARROW - "ONLY".

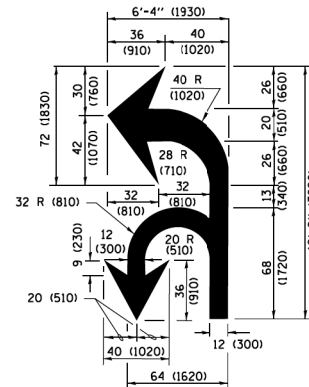


ISLAND OFFSET FROM PAVEMENT EDGE

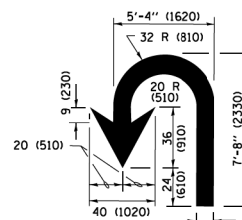


ISLAND AT PAVEMENT EDGE

TYPICAL ISLAND MARKING



COMBINATION LEFT AND U-TURN



U-TURN

LANE REDUCTION TRANSITION

* LANE REDUCTION ARROWS REQUIRED AT SPEEDS OF 45 MPH OR GREATER OR WHEN SPECIFIED IN PLANS.

D(FT)	SPEED LIMIT
345	30
425	35
500	40
580	45
665	50
750	55

TYPE OF MARKING	WIDTH OF LINE	PATTERN	COLOR	SPACING /REMARKS
CENTERLINE ON 2 LANE PAVEMENT	4 (100)	SKIP-DASH	YELLOW	10' (3 m) LINE WITH 30' (9 m) SPACE
CENTERLINE ON MULTI-LANE UNDIVIDED PAVEMENT	2 @ 4 (100)	SOLID	YELLOW	11 (280) C-C
NO PASSING ZONE LINES FOR ONE DIRECTION FOR BOTH DIRECTIONS	4 (100) 2 @ 4 (100)	SOLID SOLID	YELLOW YELLOW	5/2 (140) C-C FROM SKIP-DASH CENTERLINE 11 (280) C-C OMIT SKIP-DASH CENTERLINE BETWEEN
LANE LINES	4 (100) 5 (125) ON FREEWAYS	SKIP-DASH SKIP-DASH	WHITE WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE
DOTTED LINES (EXTENSIONS OF CENTER, LANE OR TURN LANE MARKINGS)	SAME AS LINE BEING EXTENDED	SKIP-DASH	SAME AS LINE BEING EXTENDED	2' (600) LINE WITH 6' (1.8 m) SPACE
EDGE LINES	4 (100)	SOLID	YELLOW-LEFT WHITE-RIGHT	OUTLINE MEDIANS IN YELLOW
TURN LANE MARKINGS	6 (150) LINE; FULL SIZE LETTERS & SYMBOLS (8' (2.4m))	SOLID	WHITE	SEE TYPICAL TURN LANE MARKING DETAIL
TWO WAY LEFT TURN MARKING	2 @ 4 (100) EACH DIRECTION 8' (2.4m) LEFT ARROW	SKIP-DASH AND SOLID IN PAIRS	YELLOW WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE FOR SKIP-DASH; 5/2 (140) C-C BETWEEN SOLID LINE AND SKIP-DASH LINE SEE TYPICAL TWO-WAY LEFT TURN MARKING DETAIL
CROSSWALK LINES (PEDESTRIAN) A. DIAGONALS (BIKE & EQUESTRIAN) B. LONGITUDINAL BARS (SCHOOL)	2 @ 6 (150) 12 (300) @ 45° 12 (300) @ 90°	SOLID SOLID SOLID	WHITE WHITE WHITE	NOT LESS THAN 6' (1.8 m) APART 2' (600) APART SEE TYPICAL CROSSWALK MARKING DETAILS.
STOP LINES	24 (600)	SOLID	WHITE	PLACE 4' (1.2 m) IN ADVANCE OF AND PARALLEL TO CROSSWALK, IF PRESENT. OTHERWISE, PLACE AT DESIRED STOPPING POINT, PARALLEL TO CROSSROAD CENTERLINE, WHERE POSSIBLE
PAINTED MEDIANS	2 @ 4 (100) WITH 12 (300) DIAGONALS @ 45° NO DIAGONALS USED FOR 4' (1.2 m) WIDE MEDIANS	SOLID	YELLOW; TWO WAY TRAFFIC WHITE; ONE WAY TRAFFIC	11 (280) C-C FOR THE DOUBLE LINE SEE TYPICAL PAINTED MEDIAN MARKING.
GORE MARKING AND CHANNELIZING LINES	8 (200) WITH 12 (300) DIAGONALS @ 45°	SOLID	WHITE	DIAGONALS: 15' (4.5 m) C-C (LESS THAN 30MPH (50 km/h)) 20' (6 m) C-C 30MPH (50 km/h) TO 45MPH (70 km/h) 30' (9 m) C-C (OVER 45MPH (70 km/h))
RAILROAD CROSSING	24 (600) TRANSVERSE LINES; "RR" 15' (4.5 m) LETTERS; 16 (400) LINE FOR "X"	SOLID	WHITE	SEE STATE STANDARD 780001 AREA OF: "R"=3.6 SQ. FT. (0.33 m ²) EACH "X"=54.0 SQ. FT. (5.0 m ²)
SHOULDER DIAGONALS (REQUIRED FOR SHOULDERS ≥ 8')	12 (300) @ 45°	SOLID	WHITE - RIGHT YELLOW - LEFT	50' (15 m) C-C (LESS THAN 30MPH (50 km/h)) 75' (25 m) C-C (30 MPH (50 km/h) TO 45MPH (70 km/h)) 150' (45 m) C-C (OVER 45MPH (70 km/h))
U TURN ARROW	SEE DETAIL	SOLID	WHITE	16.3 SF
2 ARROW COMBINATION LEFT AND U TURN	SEE DETAIL	SOLID	WHITE	30.4 SF

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

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

FILE NAME =	USER NAME = footerj	DESIGNED - EVERS	REVISED - C. JUCIUS 09-09-09	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION		DISTRICT ONE		F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
Default	PLOT SCALE = 50,000' / in.	CHECKED -	REVISED - C. JUCIUS 07-01-13			TYPICAL PAVEMENT MARKINGS		SCALE: NONE	SHEET 1 OF 1 SHEETS	STA. TO STA.	TC-13	
Default	PLOT DATE = 4/13/2016	DATE - 03-19-90	REVISED - C. JUCIUS 12-21-15	CITY OF AURORA		MISCELLANEOUS DETAILS		F.A.U. RTE.	PERMIT NO.	COUNTY	TOTAL SHEETS	SHEET NO.
			REVISED - C. JUCIUS 04-12-16			SCALE: SHEET NO. OF SHEETS STA. TO STA.		VARIES	045-76542	KANE	27	24
								ILLINOIS FED. AID PROJECT				

HRG PROJECT NO.: 8960295
HRG PROJ. CONTACT: 255.06703.downer-dgn
FILE NAME: 255.06703.downer-dgn
PEN TABLE: pen.tbl



USER NAME = mfaller	DESIGNED - GF	REVISED -
DRAWN - RCB	CHECKED - APS	REVISED -
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PLOT DATE = 1/31/2018		

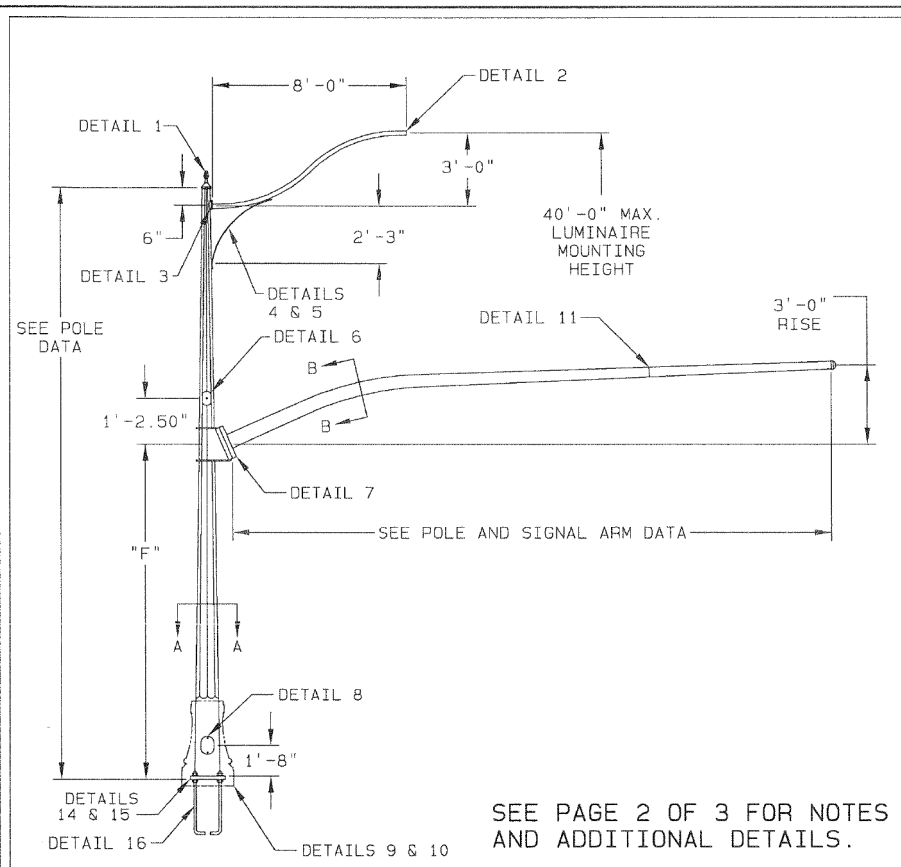
SCALE: SHEET NO. OF SHEETS STA. TO STA.

F.A.U. RTE.	PERMIT NO.	COUNTY	TOTAL SHEETS	SHEET NO.
VARIES	045-76542	KANE	27	24
CONTRACT NO.				
ILLINOIS FED. AID PROJECT				

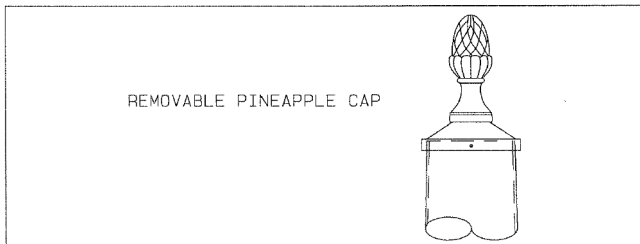
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PROFILE	
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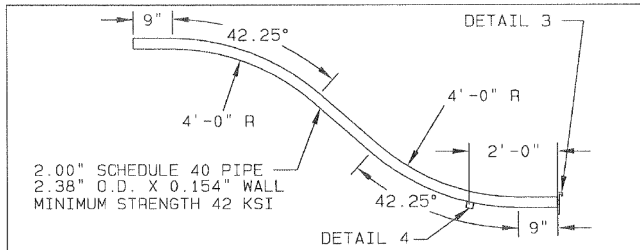
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SEE PAGE 2 OF 3 FOR NOTES AND ADDITIONAL DETAILS.



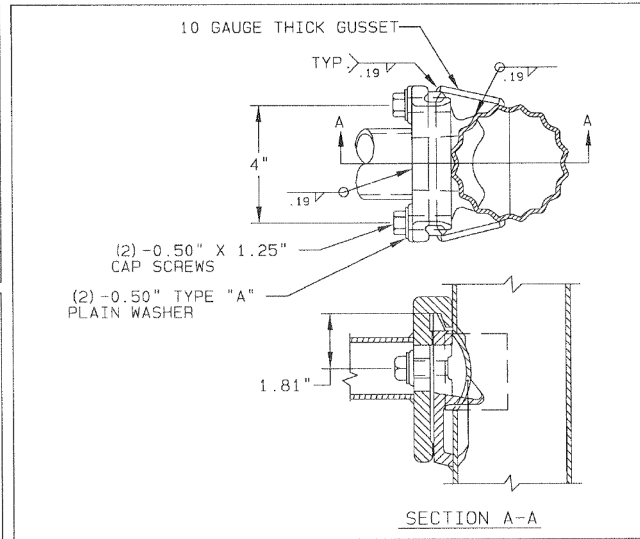
DETAIL 1 PINEAPPLE CAP ASSEMBLY



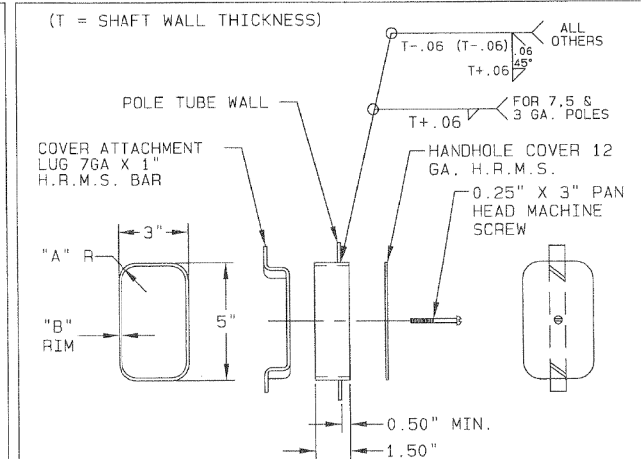
DETAIL 2 LUMINAIRE ARM

BASE COAT: HOT DIP GALVANIZE TO ASTM A123
 PRIME COAT: NEW HIGH BUILD EPOXY POWDER
 FINISH COAT: PENTABOND POWDER
 COLOR: BLACK
 VALMONT SPEC: F-573A

FINISH NOTE

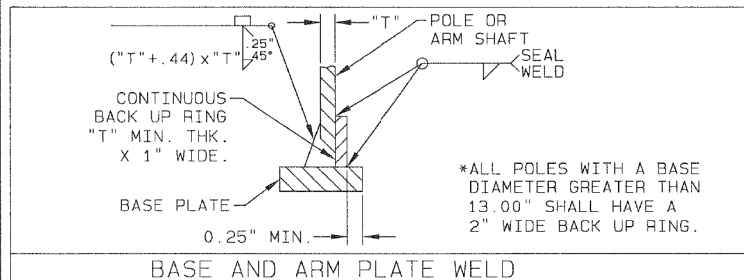


DETAIL 3 LUMINAIRE ARM ATTACHMENT



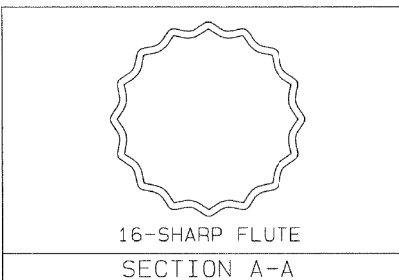
DETAIL 6 HANDHOLE

POLE GA.	"A"	"B"
7, 5 & 3	1.00"	0.179"
ALL OTHERS	0.50"	0.375"

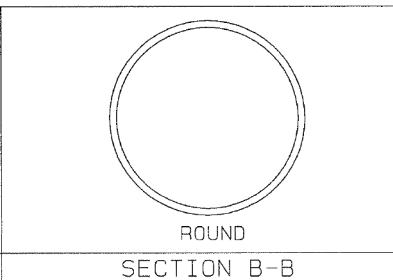


BASE AND ARM PLATE WELD

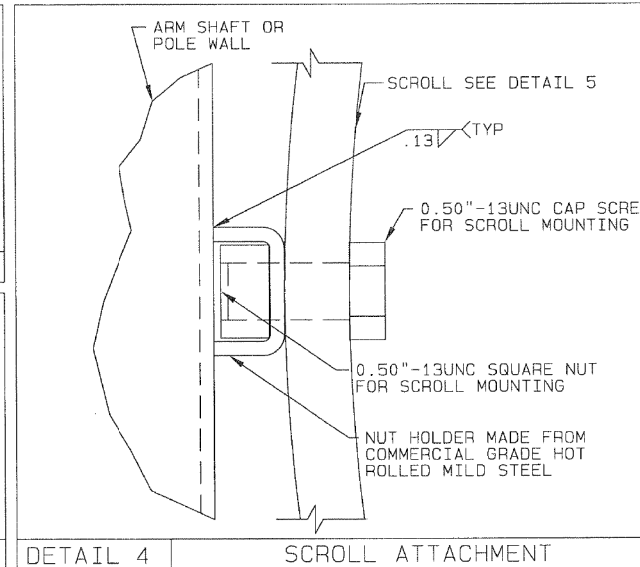
*ALL POLES WITH A BASE DIAMETER GREATER THAN 13.00" SHALL HAVE A 2" WIDE BACK UP RING.



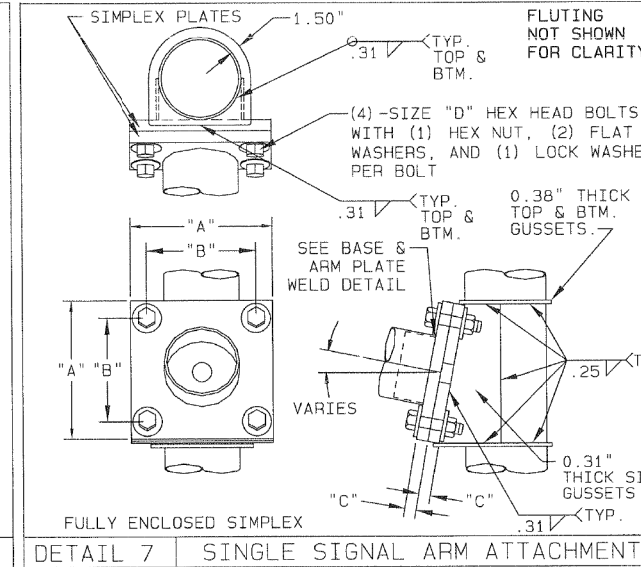
16-SHARP FLUTE



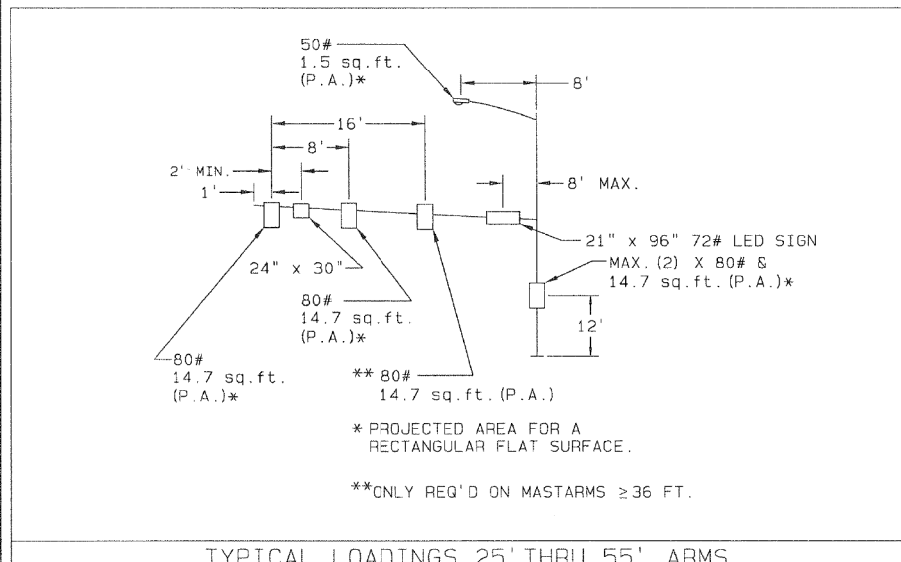
ROUND



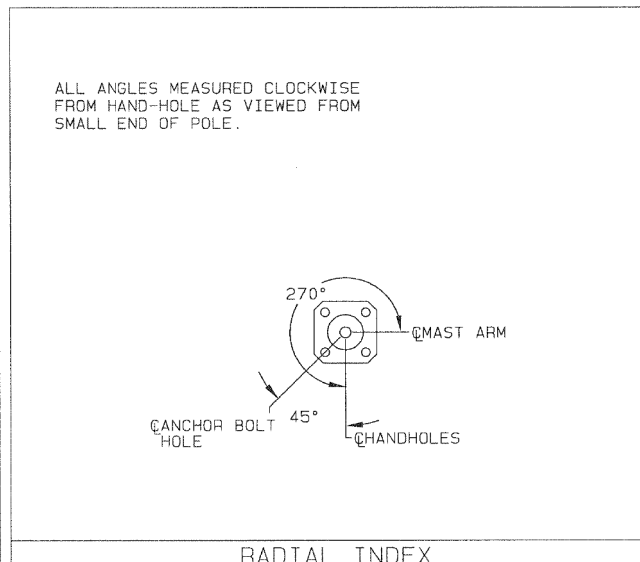
DETAIL 4 SCROLL ATTACHMENT



DETAIL 7 SINGLE SIGNAL ARM ATTACHMENT

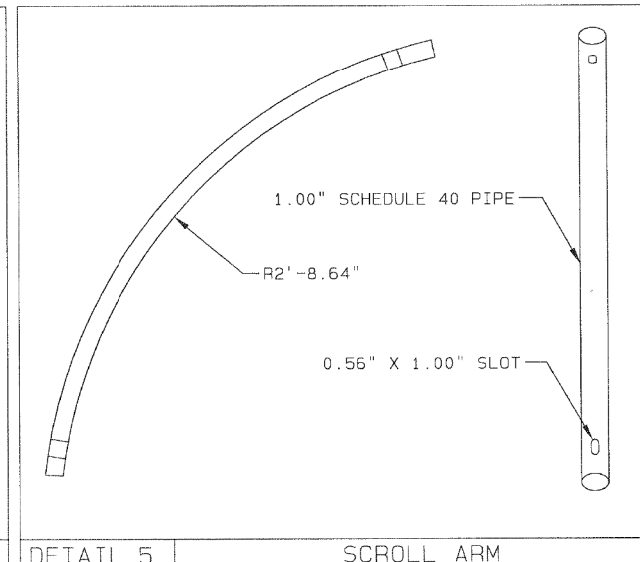


TYPICAL LOADINGS 25' THRU 55' ARMS



RADIAL INDEX

ALL ANGLES MEASURED CLOCKWISE FROM HAND-HOLE AS VIEWED FROM SMALL END OF POLE.



DETAIL 5 SCROLL ARM

SIGNAL ARM ATTACHMENT DATA

ARM SPAN (FT)	"A" (IN)	"B" (IN)	"C" (IN)	"D"
20-25	16.63	13.38	1.25	1.25" X 4.75"
26-30	17.88	13.88	1.50	1.25" X 4.75"
31-35	17.88	13.88	1.50	1.25" X 4.75"
36-40	19.75	16.50	2.00	1.25" X 5.75"
41-45	19.75	16.50	2.00	1.25" X 5.75"
46-50	19.75	16.50	2.00	1.25" X 5.75"
51-55	21.25	17.50	2.00	1.50" X 6.00"

REV	DRAWN BY-DATE	CHECK BY-DATE	DESCRIPTION
A	CWF 06/07/10	CWF 06/07/10	REVISED PER CUSTOMER REQUEST
	CWF 05/13/09	CWF 05/13/09	

TITLE CITY OF AURORA TRAFFIC STRUCTURES

VALMONT INDUSTRIES, INC. RESERVES THE RIGHT TO INSTALL VARIOUS, ENGINEER APPROVED, MATERIAL HANGING ACCOMMODATIONS TO FACILITATE THE MANUFACTURING PROCESS.

valmont
 Valley, NE 68064
 (402) 359-2201

PAGE NUMBER: 1 OF 3
 DRAWING NUMBER: DB00873
 REV: A

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 #184-001322

USER NAME = mfaller	DESIGNED - GF	REVISED -
DESIGNED - GF	DRAWN - RCB	REVISED -
DRAWN - RCB	CHECKED - APS	REVISED -
CHECKED - APS	DATE - 1/31/18	REVISED -
DATE - 1/31/18		

CITY OF AURORA

MISCELLANEOUS DETAILS

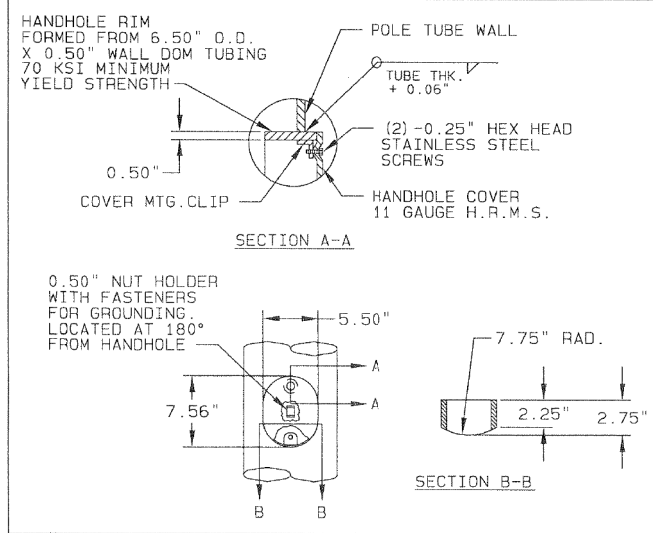
SCALE: SHEET NO. OF SHEETS STA. TO STA.

F.A.U. RTE.	PERMIT NO.	COUNTY	TOTAL SHEETS	SHEET NO.
VARIES	045-76542	KANE	27	25
CONTRACT NO.				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

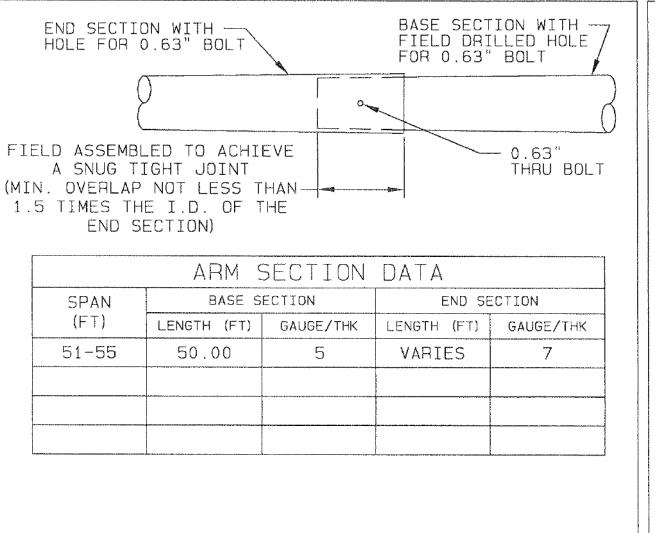
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PROFILE	
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 HRG PROJ. CONTACT: 255.06105.downer-dgn
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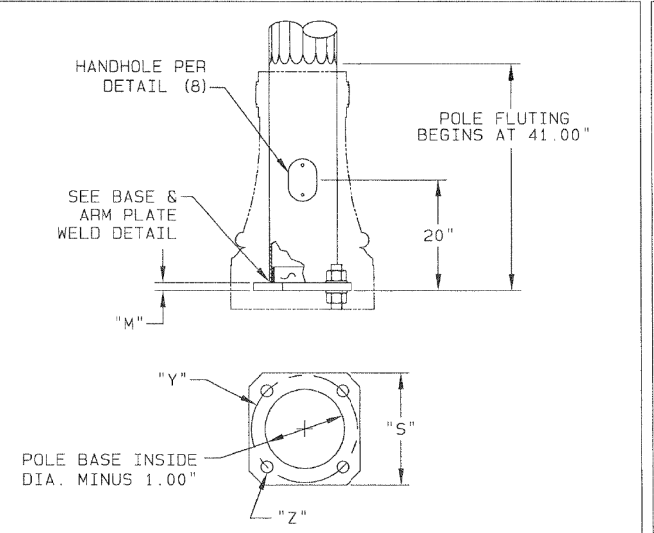


DETAIL 8 SEMI-FLUSH HANDHOLE

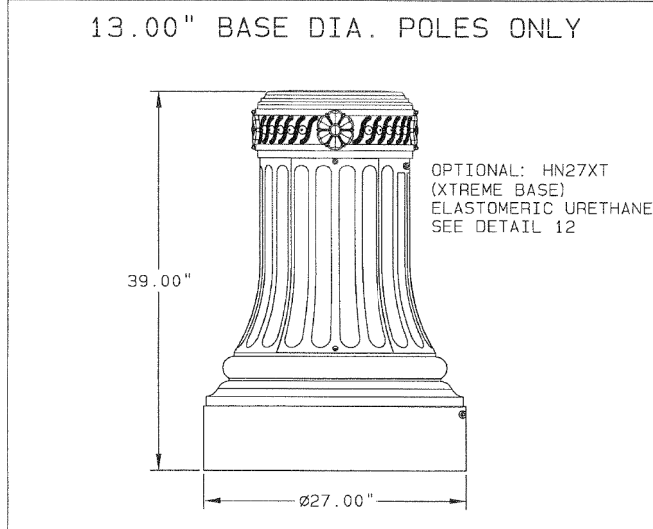


DETAIL 11 SIGNAL ARM SLIP JOINT

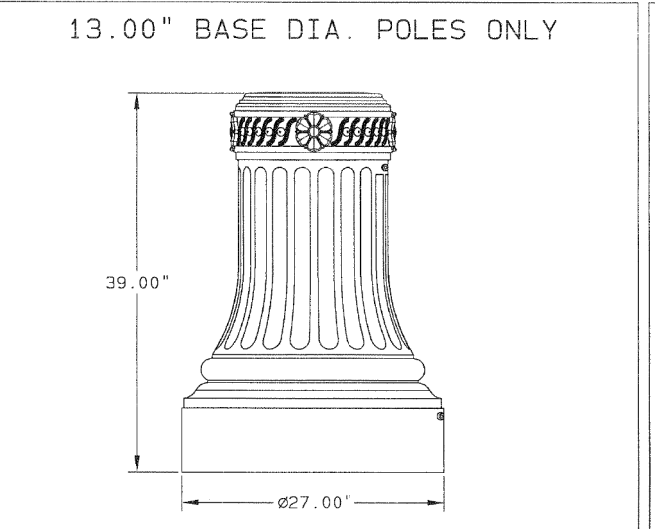
ARM SECTION DATA				
SPAN (FT)	BASE SECTION		END SECTION	
	LENGTH (FT)	GAUGE/THK	LENGTH (FT)	GAUGE/THK
51-55	50.00	5	VARIES	7



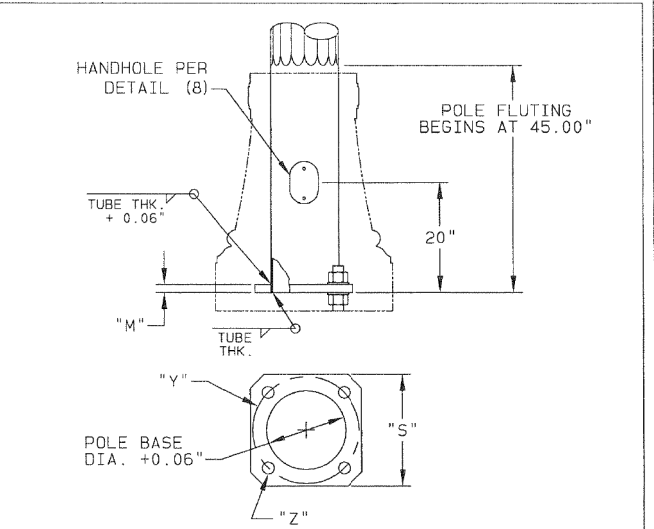
DETAIL 14 HN27AC POLE BASE



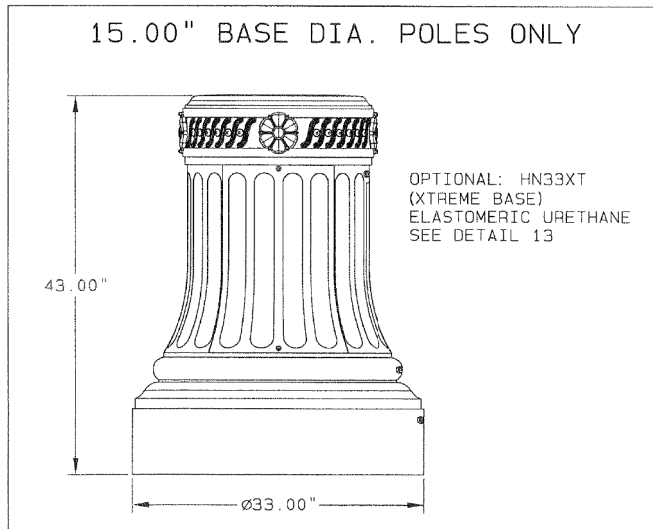
DETAIL 9 HN27AC DECORATIVE BASE



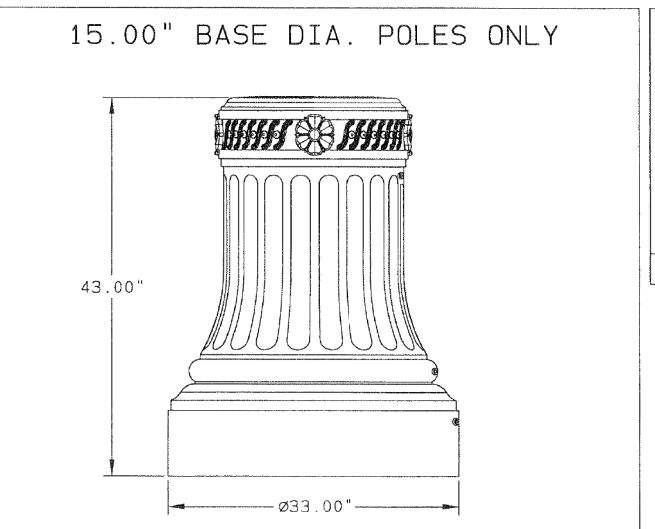
DETAIL 12 HN27XT DECORATIVE BASE



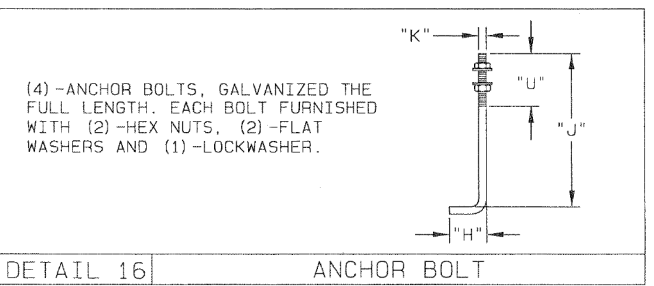
DETAIL 15 HN33AC POLE BASE



DETAIL 10 HN33AC DECORATIVE BASE



DETAIL 13 HN33XT DECORATIVE BASE



DETAIL 16 ANCHOR BOLT

NOTES:

- POLE AND ARM SHAFTS 13.00" AND SMALLER-CONFORMS TO ASTM DESIGNATION: A595 GR. A WITH 55,000 P.S.I. MINIMUM YIELD STRENGTH. LINEAR TAPER-0.14"/FT. POLE AND ARM SHAFTS LARGER THAN 13.00"-CONFORMS TO ASTM DESIGNATION: M-223 A572 GR. 65 WITH A 65,000 P.S.I. MINIMUM YIELD STRENGTH. LINEAR TAPER-0.14"/FT.
- BASE PLATE AND SIMPLEX PLATES-CONFORM TO AASHTO M-223 GR. 50 (ASTM: A572 GR. 50).
- ANCHOR BOLTS-ALL STRUCTURES: ASTM F1554 GR.105 105,000 P.S.I. MINIMUM YIELD STRENGTH. (AASHTO M314)
- TRAFFIC SIGNAL ARM END CAP SECURED IN PLACE WITH 3 STAINLESS STEEL SET SCREWS. (TRAFFIC SIGNAL ARM END CAP PROVIDED WITH (2) ADDITIONAL STAINLESS STEEL HEX BOLTS).
- ALL NON-STAINLESS THREADED FASTENERS TO BE HOT DIP GALVANIZED TO ASTM DESIGNATION: A153 (AASHTO M232).
- SIMPLEX CONNECTING BOLTS-ASTM DESIGNATION: A325 (M164) GALVANIZED TO ASTM DESIGNATION: A153 LUBRICATE THREADS IN FIELD IF NECESSARY BEFORE INSTALLATION.
- ALL VEHICULAR AND/OR PEDESTRIAN SIGNAL LIGHTS AND NECESSARY HARDWARE FOR ATTACHMENT TO BE FIELD LOCATED AND FURNISHED BY OTHERS.
- POLES AND ARMS TO BE GALVANIZED TO ASTM DESIGNATION: A123 (AASHTO M111). ACCESSORIES TO BE HOT DIP GALVANIZED TO ASTM DESIGNATION: A153 (AASHTO M232).
- ACCESS HOLES IN ARMS AT SIGNALS TO BE FIELD DRILLED BY CONTRACTOR-LOCATED AS SHOWN IN PLANS.
- LUMINAIRE ARM SHAFT CONFORMS TO 2" SCHEDULE 40 PIPE W/ 36,000 PSI MIN. YIELD STRENGTH.
- SHAFT GAUGE OR THICKNESS ARE AS FOLLOWS: 11 GA.= 0.1196", 7 GA.= 0.1793", 5 GA.= 0.2092", 3 GA.= 0.2391", AND 2" SCHED.40 PIPE = 0.154".

LOADING AND ALLOWABLE STRESS CRITERIA: 1994 AASHTO "STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR SIGNS, LUMINAIRES AND TRAFFIC SIGNALS".

STATE OF ILLINOIS
GENERAL NOTES

TITLE
CITY OF AURORA
TRAFFIC STRUCTURES

VALMONT INDUSTRIES, INC. RESERVES THE RIGHT TO INSTALL VARIOUS, ENGINEER APPROVED, MATERIAL HANGING ACCOMMODATIONS TO FACILITATE THE MANUFACTURING PROCESS.



PAGE NUMBER:	2 OF 3
DRAWING NUMBER	REV
DB00873	A



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USER NAME = mfaller	DESIGNED - GF	REVISED -
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PLOT SCALE =	CHECKED - APS	REVISED -
PLOT DATE = 1/31/2018	DATE - 1/31/18	REVISED -

CITY OF AURORA

MISCELLANEOUS DETAILS

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

F.A.U R.T.E.	PERMIT NO.	COUNTY	TOTAL SHEETS	SHEET NO.
VARIES	045-76542	KANE	27	26
FED. ROAD DIST. NO.				ILLINOIS FED. AID PROJECT

DATE _____ BY _____
 SURVEYED _____
 PLOTTED _____
 ALIGNED _____
 CHECKED _____
 PLAN NO. _____

DATE _____ BY _____
 SURVEYED _____
 PLOTTED _____
 GRADES CHECKED _____
 PROFILE NO. _____

HRG PROJECT No.: 8860255
 HRG PROJ. CONTACT: 255.dgr@hr.com
 FILE NAME: 255.dgr-106.dwg
 PEN TABLE: plotfont.tbl

POLE AND SIGNAL ARM DATA (SMAA&P)														
POLE TUBE				POLE BASE				ANCHOR BOLT			SIGNAL ARM TUBE			
BASE DIA. (IN)	TOP DIA. (IN)	LENGTH (FT)	GAUGE OR THK. (IN)	SQUARE "S" (IN)	BOLT CIRCLE "Y" (IN)	THK. "M" (IN)	HOLE / SLOT "Z" (IN)	DIA. "K" (IN)	LENGTH "J" (IN)	HOOK "H" (IN)	THREAD LENGTH "U" (IN)	FIXED END DIA. (IN)	GAUGE OR THICK (IN)	SPAN (FT)
12.50	9.56	21.00	5	18.00	18.00	1.50	2.00	1.75	84.00	6.00	8.00	8.00	7	20.00
12.50	9.56	21.00	5	18.00	18.00	1.50	2.00	1.75	84.00	6.00	8.00	8.00	7	22.00
12.50	9.56	21.00	5	18.00	18.00	1.50	2.00	1.75	84.00	6.00	8.00	8.00	7	24.00
12.50	9.56	21.00	5	18.00	18.00	1.50	2.00	1.75	84.00	6.00	8.00	8.00	7	25.00
13.00	10.06	21.00	3	18.00	18.00	1.75	2.00	1.75	84.00	6.00	8.00	9.00	7	26.00
13.00	10.06	21.00	3	18.00	18.00	1.75	2.00	1.75	84.00	6.00	8.00	9.00	7	28.00
13.00	10.06	21.00	3	18.00	18.00	1.75	2.00	1.75	84.00	6.00	8.00	9.00	7	30.00
13.00	10.06	21.00	3	18.00	18.00	1.75	2.00	1.75	84.00	6.00	8.00	10.00	7	32.00
13.00	10.06	21.00	3	18.00	18.00	1.75	2.00	1.75	84.00	6.00	8.00	10.00	7	34.00
13.00	10.06	21.00	3	18.00	18.00	1.75	2.00	1.75	84.00	6.00	8.00	10.00	7	35.00
15.00	12.06	21.00	0.250	21.00	21.00	1.75	2.25	2.00	84.00	6.00	10.00	11.00	7	36.00
15.00	12.06	21.00	0.250	21.00	21.00	1.75	2.25	2.00	84.00	6.00	10.00	11.00	7	38.00
15.00	12.06	21.00	0.250	21.00	21.00	1.75	2.25	2.00	84.00	6.00	10.00	11.00	7	40.00
15.00	12.06	21.00	0.250	21.00	21.00	1.75	2.25	2.00	84.00	6.00	10.00	12.00	7	42.00
15.00	12.06	21.00	0.250	21.00	21.00	1.75	2.25	2.00	84.00	6.00	10.00	12.00	7	44.00
15.00	12.06	21.00	0.250	21.00	21.00	1.75	2.25	2.00	84.00	6.00	10.00	12.00	7	45.00
15.00	12.06	21.00	0.250	21.00	21.00	1.75	2.25	2.00	84.00	6.00	10.00	12.50	5	46.00
15.00	12.06	21.00	0.250	21.00	21.00	1.75	2.25	2.00	84.00	6.00	10.00	12.50	5	48.00
15.00	12.06	21.00	0.250	21.00	21.00	1.75	2.25	2.00	84.00	6.00	10.00	12.50	5	50.00
15.70	12.76	21.00	0.250	21.00	21.00	1.75	2.25	2.00	84.00	6.00	10.00	12.50	DTL.14	52.00
15.70	12.76	21.00	0.250	21.00	21.00	1.75	2.25	2.00	84.00	6.00	10.00	12.50	DTL.14	54.00
15.70	12.76	21.00	0.250	21.00	21.00	1.75	2.25	2.00	84.00	6.00	10.00	12.50	DTL.14	55.00

POLE REQUIREMENTS			
QUANTITY	SIGNAL ARM SPAN (FT.)	SIGNAL MAST ARM MOUNTING HEIGHT "F" (FT)	LUMINAIRE MOUNTING HEIGHT (FT)

POLE AND SIGNAL ARM DATA (CSMAA&P)																
POLE TUBE				POLE BASE				ANCHOR BOLT			SIGNAL ARM TUBE			LUMINAIRE ARM SPAN (FT)		
BASE DIA. (IN)	TOP DIA. (IN)	LENGTH (FT)	GAUGE OR THK. (IN)	SQUARE "S" (IN)	BOLT CIRCLE "Y" (IN)	THK. "M" (IN)	HOLE / SLOT "Z" (IN)	DIA. "K" (IN)	LENGTH "J" (IN)	HOOK "H" (IN)	THREAD LENGTH "U" (IN)	FIXED END DIA. (IN)	GAUGE OR THICK (IN)	SPAN (FT)	LUMINAIRE ARM SPAN (FT)	
12.50				5	18.00	18.00	1.50	2.00	1.75	84.00	6.00	8.00	8.00	7	20.00	8.00
12.50				5	18.00	18.00	1.50	2.00	1.75	84.00	6.00	8.00	8.00	7	22.00	8.00
12.50				5	18.00	18.00	1.50	2.00	1.75	84.00	6.00	8.00	8.00	7	24.00	8.00
12.50				5	18.00	18.00	1.50	2.00	1.75	84.00	6.00	8.00	8.00	7	25.00	8.00
13.00				3	18.00	18.00	1.75	2.00	1.75	84.00	6.00	8.00	9.00	7	26.00	8.00
13.00				3	18.00	18.00	1.75	2.00	1.75	84.00	6.00	8.00	9.00	7	28.00	8.00
13.00				3	18.00	18.00	1.75	2.00	1.75	84.00	6.00	8.00	10.00	7	32.00	8.00
13.00				3	18.00	18.00	1.75	2.00	1.75	84.00	6.00	8.00	10.00	7	34.00	8.00
13.00				3	18.00	18.00	1.75	2.00	1.75	84.00	6.00	8.00	10.00	7	35.00	8.00
15.00				0.250	21.00	21.00	1.75	2.25	2.00	84.00	6.00	10.00	11.00	7	36.00	8.00
15.00				0.250	21.00	21.00	1.75	2.25	2.00	84.00	6.00	10.00	11.00	7	38.00	8.00
15.00				0.250	21.00	21.00	1.75	2.25	2.00	84.00	6.00	10.00	11.00	7	40.00	8.00
15.00				0.250	21.00	21.00	1.75	2.25	2.00	84.00	6.00	10.00	12.00	7	42.00	8.00
15.00				0.250	21.00	21.00	1.75	2.25	2.00	84.00	6.00	10.00	12.00	7	44.00	8.00
15.00				0.250	21.00	21.00	1.75	2.25	2.00	84.00	6.00	10.00	12.00	7	45.00	8.00
15.00				0.250	21.00	21.00	1.75	2.25	2.00	84.00	6.00	10.00	12.50	5	46.00	8.00
15.00				0.250	21.00	21.00	1.75	2.25	2.00	84.00	6.00	10.00	12.50	5	48.00	8.00
15.00				0.250	21.00	21.00	1.75	2.25	2.00	84.00	6.00	10.00	12.50	5	50.00	8.00
15.70				0.250	21.00	21.00	1.75	2.25	2.00	84.00	6.00	10.00	12.50	DTL.14	52.00	8.00
15.70				0.250	21.00	21.00	1.75	2.25	2.00	84.00	6.00	10.00	12.50	DTL.14	54.00	8.00
15.70				0.250	21.00	21.00	1.75	2.25	2.00	84.00	6.00	10.00	12.50	DTL.14	55.00	8.00

POLE REQUIREMENTS			
QUANTITY	SIGNAL ARM SPAN (FT.)	SIGNAL MAST ARM MOUNTING HEIGHT "F" (FT)	LUMINAIRE MOUNTING HEIGHT (FT)

TITLE CITY OF AURORA
TRAFFIC STRUCTURES

VALMONT INDUSTRIES, INC. RESERVES THE RIGHT TO INSTALL VARIOUS, ENGINEER APPROVED, MATERIAL HANGING ACCOMMODATIONS TO FACILITATE THE MANUFACTURING PROCESS.



PAGE NUMBER: 3 OF 3
DRAWING NUMBER DB00873 REV A

CITY OF AURORA

MISCELLANEOUS DETAILS

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

F.A.U. R.E.	PERMIT NO.	COUNTY	TOTAL SHEETS	SHEET NO.
VARIES	045-76542	KANE	27	27
CONTRACT NO.				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

HRGreen.com
Micro Professional Design Firm
#184-001322

USER NAME = mfoeller	DESIGNED -	REVISED -
PLOT SCALE =	DRAWN -	REVISED -
PLOT DATE = 1/31/2018	CHECKED -	REVISED -
	DATE = 1/31/18	REVISED -