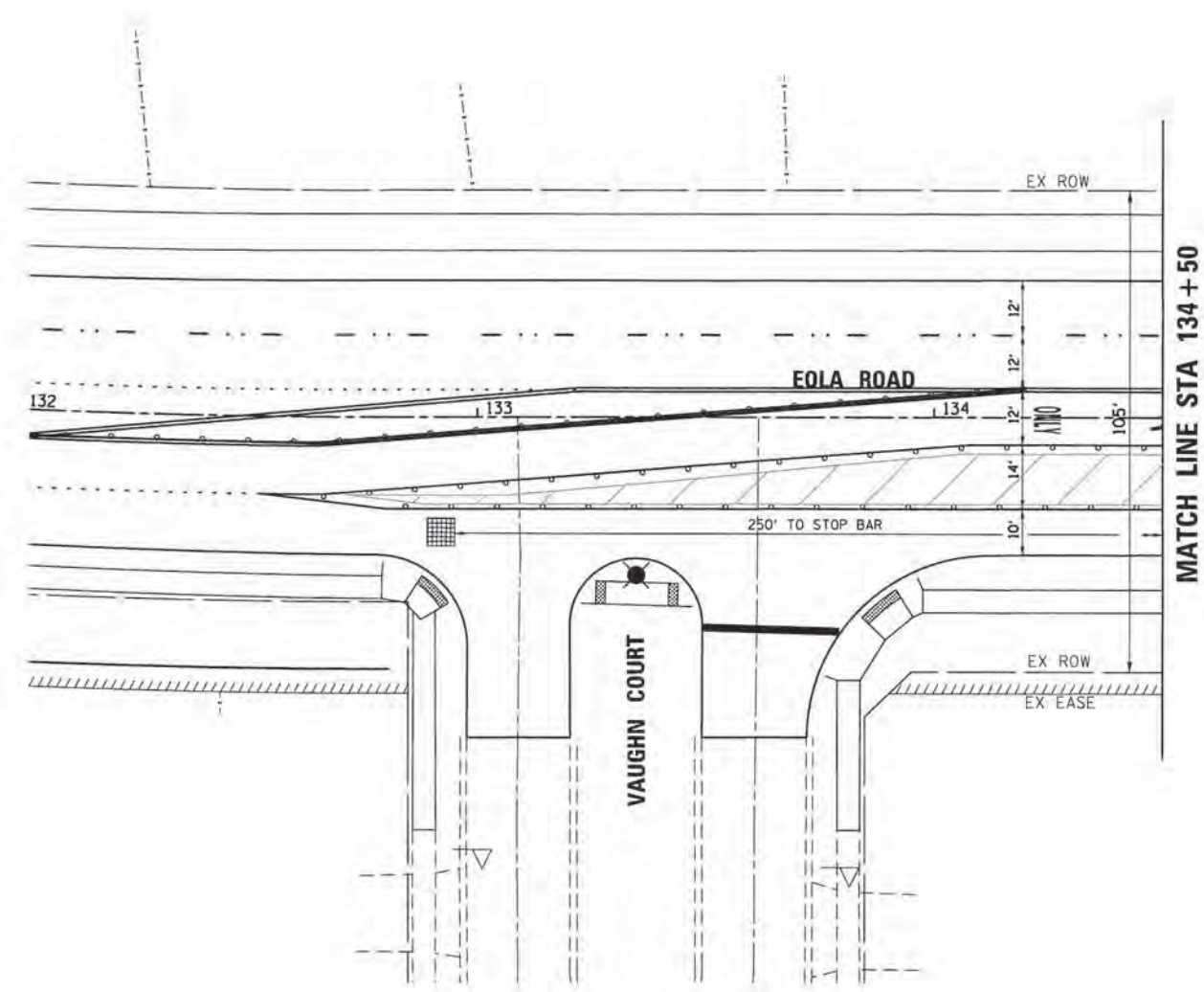


SCALE IN FEET



MATCH LINE STA 134+50

- LEGEND:**
- WORK ZONE
  - DETECTION ZONE
  - TEMPORARY PAVEMENT

COMPANY NAME: #COMPANY\_NAME  
 PROJECT CONTACT: #PROJECT\_CONTACTS  
 CLIENT: #CLIENTS  
 DATE PLOTTED: 10/30/2015 10:50 AM  
 FILE NAME: 86130384-shr-tsig30-83rd.dgn  
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HRGreen.com  
 Illinois Professional Design Firm  
 #184-001322

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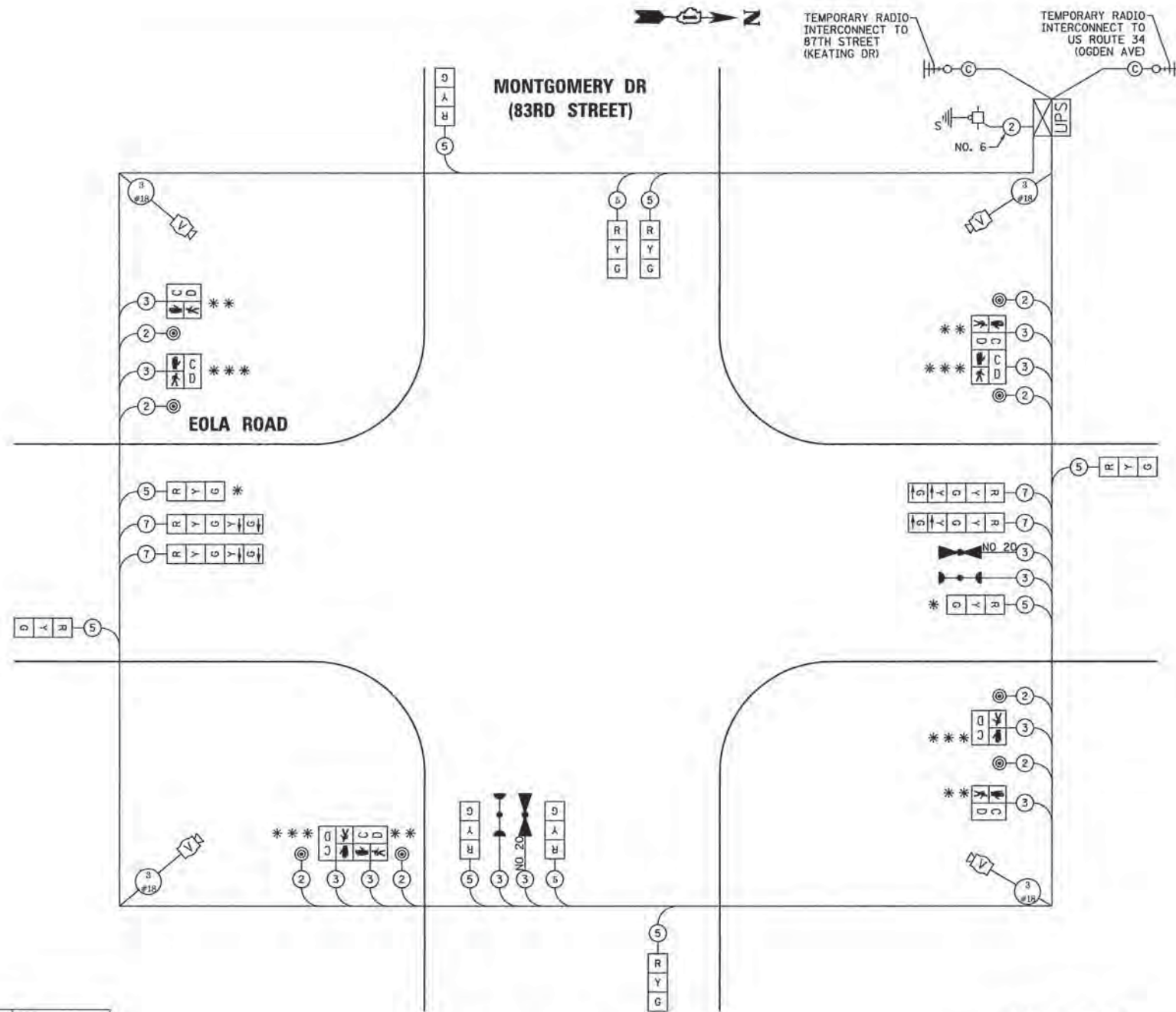
**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**TEMPORARY TRAFFIC SIGNAL INSTALLATION PLAN  
 STAGE 3 - EOLA ROAD AT 83RD STREET**

SCALE: 1" = 20'    SHEET NO. 14 OF 28 SHEETS    STA.    TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2531	10-00292-00-WR	DUPAGE	229	101
CONTRACT NO.			61C06	
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

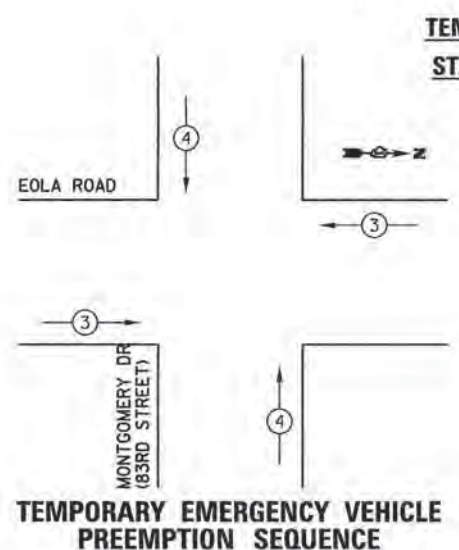
- \* SIGNAL HEAD SHALL ONLY BE USED DURING STAGE 3.
- \*\* TEMPORARY PEDESTRIAN SIGNAL HEAD SHALL BE BAGGED AND DISCONNECTED DURING STAGE 1.
- \*\*\* TEMPORARY PEDESTRIAN SIGNAL HEAD SHALL BE BAGGED AND DISCONNECTED DURING STAGE 1 AND 2.



I.D.O.T TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
TYPE	NO. LAMPS	WATTAGE		% OPERATION	
		INCAND.	LED		
SIGNAL (RED)	14	17	0.50	119	
(YELLOW)	14	25	0.25	87.5	
(GREEN)	14	15	0.25	52.5	
ARROW	8	12	0.10	9.6	
PED. SIGNAL	8	25	1.00	200	
CONTROLLER	1	100	1.00	100	
VIDEO SYSTEM	1	15	1.00	15	
TEMPORARY UPS	1	25	1.00	25	
TOTAL =				608.6	

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

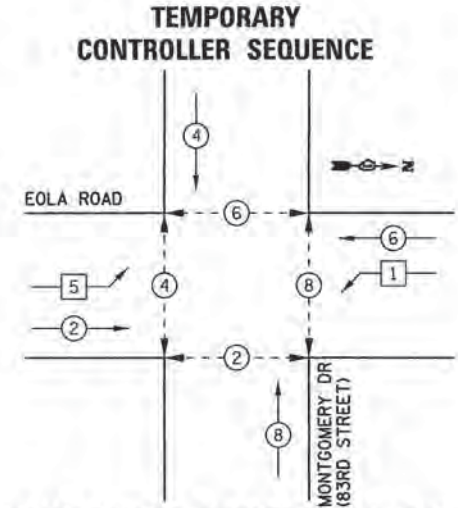
ENERGY SUPPLY CONTACT: RICK SEIDEL  
PHONE: (630) 229-5138  
COMPANY: COMMONWEALTH EDISON



**TEMPORARY CABLE PLAN**  
STAGE 1 THRU STAGE 3

TEMPORARY EMERGENCY VEHICLE PREEMPTORS	
TEMPORARY EMERGENCY VEHICLE PREEMPTORS	3 4
MOVEMENT	==

CONTROLLER SEQUENCE LEGEND	
	DUAL ENTRY PHASE
	SINGLE ENTRY PHASE
	OVERLAP
	NUMBER REFERRING TO ASSOCIATED PHASE
	PEDESTRIAN PHASE



**TEMPORARY PHASE DESIGNATION DIAGRAM**

COMPANY NAME: HRGreen.com  
 PROJECT CONTACT: J. L. DODD  
 DATE PLOTTED: 11/11/2015 10:50 AM  
 FILE NAME: 86130384-811-81gtempcab82.dgn  
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USER NAME = dstancz	DESIGNED - JS	REVISED -
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PLDT DATE = 11/11/2015	DATE - 11/11/15	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

TEMPORARY CABLE PLAN AND PHASE DESIGNATION DIAGRAM  
EOLA ROAD AT 83RD STREET (MONTGOMERY ROAD)

F.A.U. RTE. 2531	SECTION 10-00292-00-WR	COUNTY DUPAGE	TOTAL SHEETS 229	SHEET NO. 102
CONTRACT NO. 61C06			FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT	

SCALE: 1" = 20' SHEET NO. 15 OF 28 SHEETS STA. TO STA.

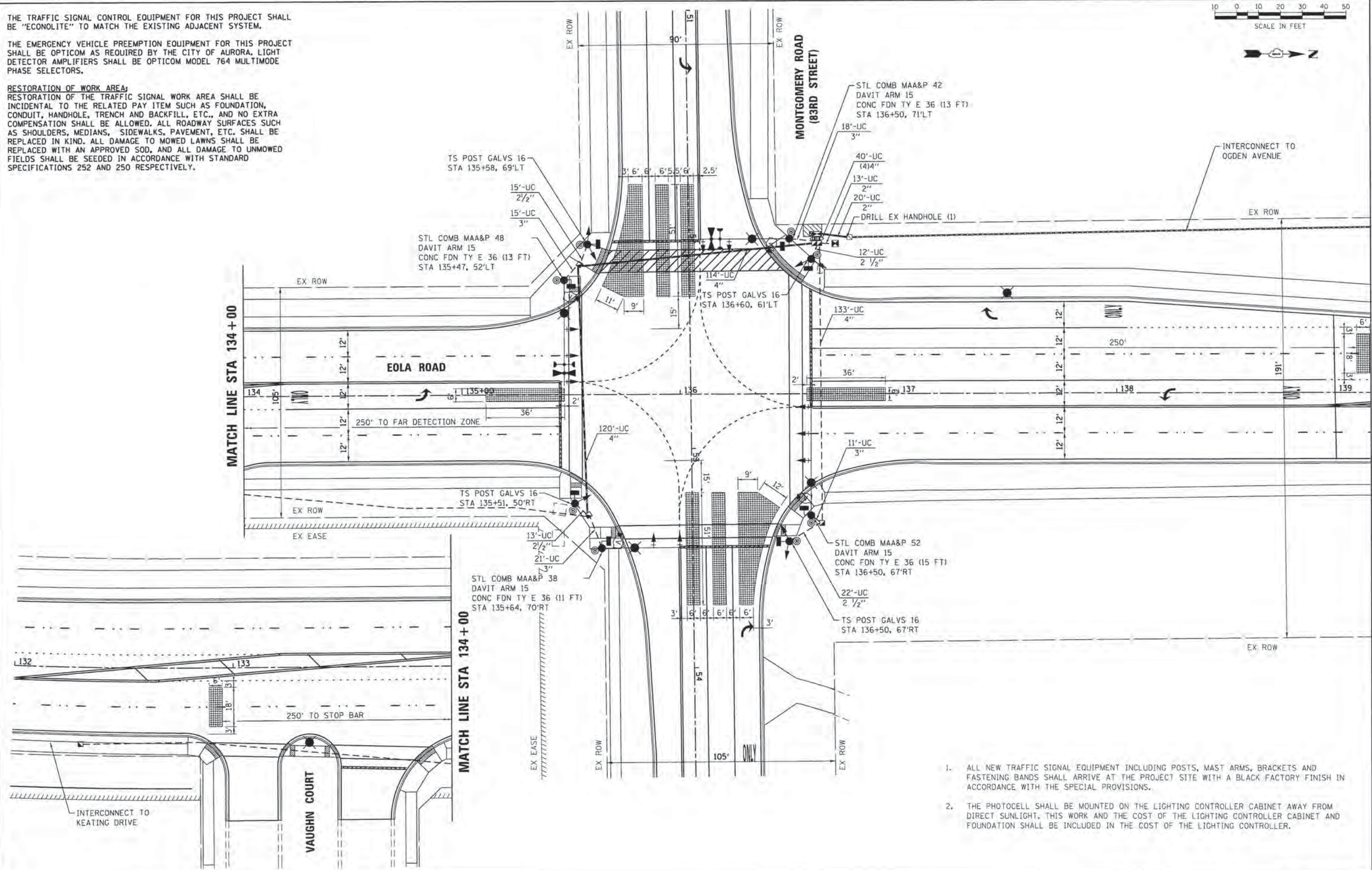
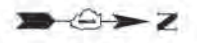
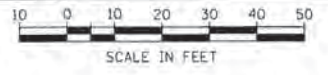


THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS PROJECT SHALL BE "ECONOLITE" TO MATCH THE EXISTING ADJACENT SYSTEM.

THE EMERGENCY VEHICLE PREEMPTION EQUIPMENT FOR THIS PROJECT SHALL BE OPTICOM AS REQUIRED BY THE CITY OF AURORA. LIGHT DETECTOR AMPLIFIERS SHALL BE OPTICOM MODEL 764 MULTIMODE PHASE SELECTORS.

**RESTORATION OF WORK AREA:**

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



1. ALL NEW TRAFFIC SIGNAL EQUIPMENT INCLUDING POSTS, MAST ARMS, BRACKETS AND FASTENING BANDS SHALL ARRIVE AT THE PROJECT SITE WITH A BLACK FACTORY FINISH IN ACCORDANCE WITH THE SPECIAL PROVISIONS.
2. THE PHOTOCCELL SHALL BE MOUNTED ON THE LIGHTING CONTROLLER CABINET AWAY FROM DIRECT SUNLIGHT. THIS WORK AND THE COST OF THE LIGHTING CONTROLLER CABINET AND FOUNDATION SHALL BE INCLUDED IN THE COST OF THE LIGHTING CONTROLLER.

COMPANY NAME: HRGreen.com  
 PROJECT CONTACT: J. J. J. J.  
 CLIENT: HRGreen.com  
 DATE PLOTTED: 10/30/2015 10:53 AM  
 FILE NAME: 86130384-sht-sig02.dgn  
 PLOT DRIVER: acpld02c  
 PLOT TABLE: PLOT01.tbl



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PLOT SCALE = 1" = 20'	CHECKED -	REVISED -
PLOT DATE = 10/30/2015	DATE - 10/30/15	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**TRAFFIC SIGNAL INSTALLATION PLAN  
 EOLA ROAD AT 83RD STREET (MONTGOMERY ROAD)**

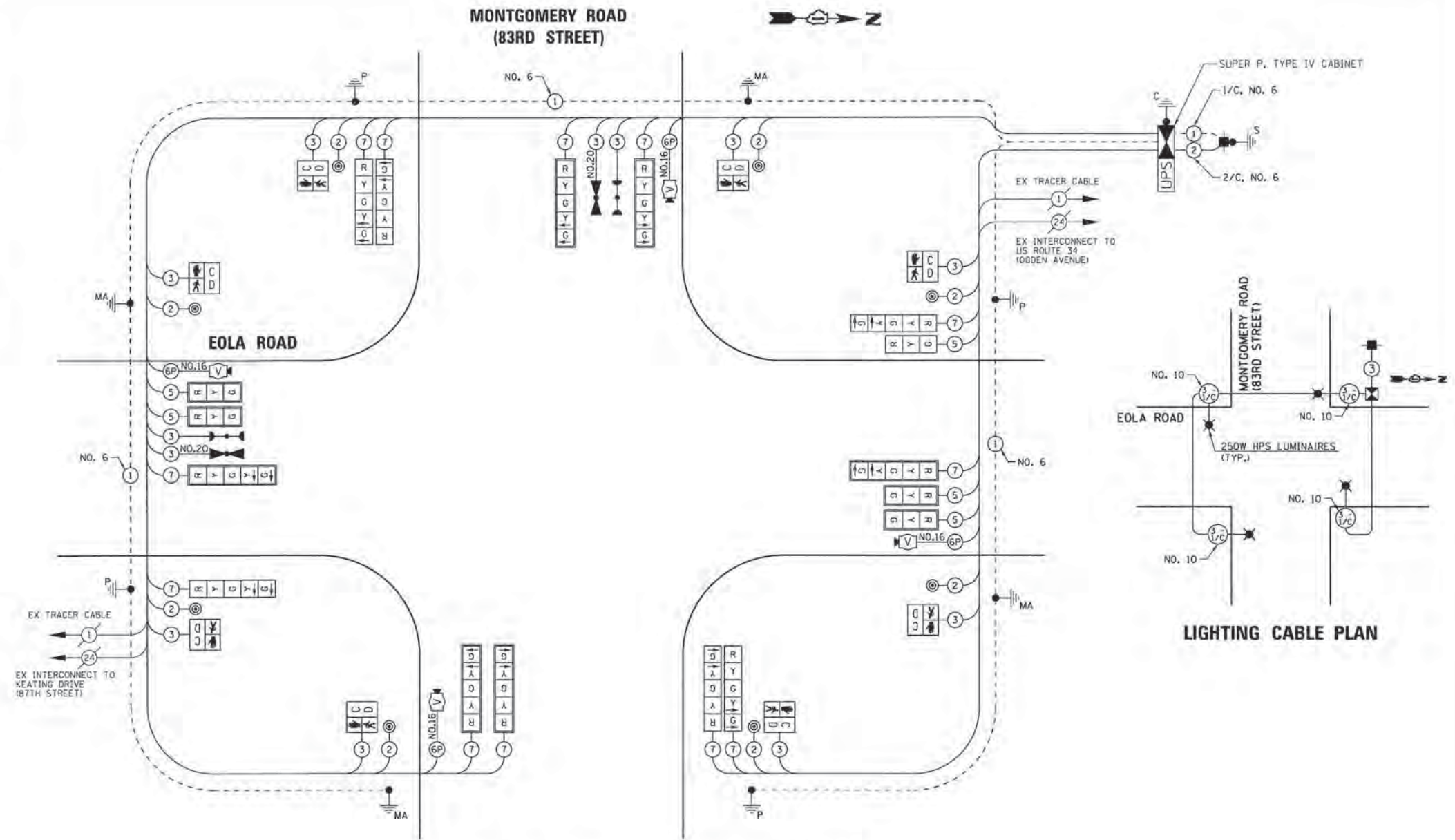
SCALE: 1" = 20'    SHEET NO. 16 OF 28 SHEETS    STA.    TO STA.

F.A.J. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2531	10-00292-00-WR	DUPAGE	229	103
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 61C06	



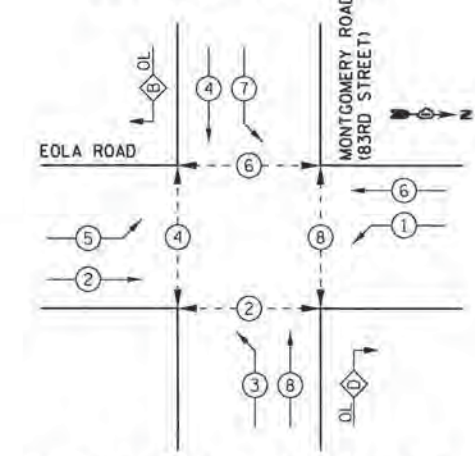
# SCHEDULE OF QUANTITIES

PAY ITEM DESCRIPTION	UNIT	TOTAL
SIGN PANEL - TYPE 1	50 FT	12.0
SIGN PANEL - TYPE 2	50 FT	21.0
SERVICE INSTALLATION - GROUND MOUNTED	EACH	1
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	33.0
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2 1/2" DIA.	FOOT	116.0
UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	65.0
UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	417.0
HANDHOLE	EACH	3
DOUBLE HANDHOLE	EACH	1
ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 3-1/C NO. 10	FOOT	803.0
LUMINAIRE, SODIUM VAPOR, HORIZONTAL MOUNT, 250 WATT	EACH	4
LIGHTING CONTROLLER, PEDESTAL MOUNTED, 240VOLT, 60AMP	EACH	1
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
PAINT NEW TRAFFIC SIGNAL POST	EACH	4
PAINT NEW COMBINATION MAST ARM AND POLE, UNDER 40 FOOT	EACH	1
PAINT NEW COMBINATION MAST ARM AND POLE, 40 FOOT AND OVER	EACH	3
TRANSCEIVER - FIBER OPTIC	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	1,408.0
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	1,763.0
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	989.5
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	2,512.0
ELECTRIC CABLE IN CONDUIT, COMMUNICATION NO. 16 6 PAIR	FOOT	778.0
ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C	FOOT	47.5
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	1,344.0
TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EACH	4
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 38 FT.	EACH	1
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 42 FT.	EACH	1
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 48 FT.	EACH	1
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 52 FT.	EACH	1
CONCRETE FOUNDATION, TYPE A	FOOT	16.0
CONCRETE FOUNDATION, TYPE C	FOOT	4.0
CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	52.0
DRILL EXISTING HANDHOLE	EACH	1
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	4
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	1
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED	EACH	6
SIGNAL HEAD, LED, 2-FACE, 5-SECTION, BRACKET MOUNTED	EACH	2
SIGNAL HEAD, LED, 2-FACE, 1-3 SECTION, 1-5 SECTION, BRACKET MOUNTED	EACH	1
PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	8
TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM	EACH	10
LIGHT DETECTOR	EACH	4
LIGHT DETECTOR AMPLIFIER	EACH	1
PEDESTRIAN PUSH-BUTTON	EACH	8
TEMPORARY TRAFFIC SIGNAL INSTALLATION	EACH	1
REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	10,542.0
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	2
REMOVE EXISTING HANDHOLE	EACH	10
REMOVE EXISTING DOUBLE HANDHOLE	EACH	1
REMOVE EXISTING CONCRETE FOUNDATION	EACH	9
EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C	FOOT	308.0
VIDEO DETECTION SYSTEM	EACH	1
FULL-ACTUATED CONTROLLER AND TYPE SUPER P CABINET, SPECIAL	EACH	1
UNINTERRUPTABLE POWER SUPPLY, SPECIAL	EACH	1
TEMPORARY TRAFFIC SIGNAL TIMING	EACH	1



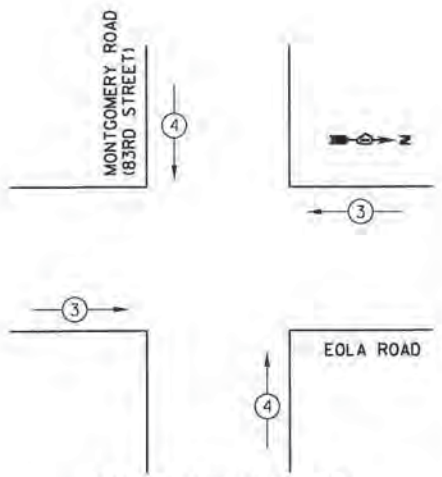
**CABLE PLAN**

**CONTROLLER SEQUENCE**



**PHASE DESIGNATION DIAGRAM**

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



**EMERGENCY VEHICLE PREEMPTION SEQUENCE**

PROPOSED EMERGENCY VEHICLE PREEMPTORS		
PROPOSED EMERGENCY VEHICLE PREEMPTORS	3	4
MOVEMENT	—	

CONTROLLER SEQUENCE LEGEND	
← ⊕ →	DUAL ENTRY PHASE
← ⊕	SINGLE ENTRY PHASE
⊕	OVERLAP
*	NUMBER REFERRING TO ASSOCIATED PHASE
← ⊕ →	PEDESTRIAN PHASE

I.D.O.T TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
TYPE	NO. LAMPS	WATTAGE		% OPERATION	
		INCAND.	LED		
SIGNAL (RED)	17	17	0.50	144.5	
(YELLOW)	17	25	0.25	106.25	
(GREEN)	17	15	0.25	63.75	
ARROW	24	12	0.10	28.8	
PED. SIGNAL	8	25	1.00	200	
CONTROLLER	1	100	1.00	100	
VIDEO SYSTEM	1	15	1.00	15	
LUMINAIRE	4	250	0.50	500	
UPS	1	25	1.00	25	
TOTAL =					1183.3

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

ENERGY SUPPLY CONTACT: RICK SEIDEL  
PHONE: (630) 229-5138  
COMPANY: COMMONWEALTH EDISON

COMPANY NAME: HRGreen.com  
 PROJECT CONTACT: HRGreen.com  
 CLIENT: ILLINOIS DEPARTMENT OF TRANSPORTATION  
 FILE NAME: 86130384-sht-sigcab82.dgn  
 PLOT DATE: 10/30/2015



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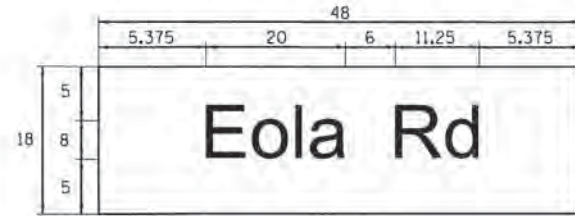
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

CABLE PLAN AND PHASE DESIGNATION DIAGRAM			
EOLA ROAD AT 83RD STREET (MONTGOMERY ROAD)			
SCALE: 1" = 20'	SHEET NO. 17 OF 28 SHEETS	STA. TO STA.	

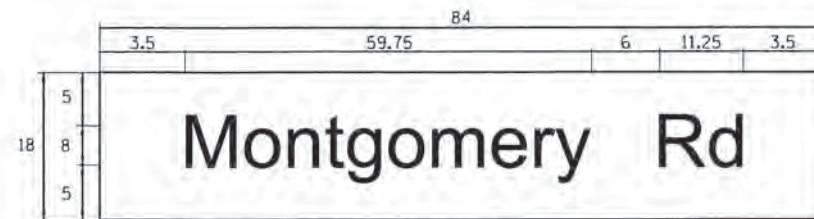
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2531	10-00292-00-WR	DUPAGE	229	104
CONTRACT NO. 61C06				



**SIGN PANEL – TYPE 1 OR TYPE 2**



DESIGN SERIES	AREA (SQ FT)	SIGN PANEL TYPE	SHEETING TYPE	QTY. REQUIRED
D	6.0	1	ZZ	2



DESIGN SERIES	AREA (SQ FT)	SIGN PANEL TYPE	SHEETING TYPE	QTY. REQUIRED
D	10.5	2	ZZ	2

NOTE: FOR ADDITIONAL DESIGN AND INSTALLATION INFORMATION PLEASE SEE DISTRICT ONE MAST ARM MOUNTED STREET NAME SIGNS DETAIL.

**SCHEDULE OF QUANTITIES**

PAY ITEM DESCRIPTION	UNIT	TOTAL
SIGN PANEL - TYPE 1	SO FT	12.0
SIGN PANEL - TYPE 2	SO FT	21.0
SERVICE INSTALLATION - GROUND MOUNTED	EACH	1
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	33.0
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2 1/2" DIA.	FOOT	116.0
UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	65.0
UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	417.0
HANDHOLE	EACH	3
DOUBLE HANDHOLE	EACH	1
ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 3-1/C NO. 10	FOOT	803.0
LUMINAIRE, SODIUM VAPOR, HORIZONTAL MOUNT, 250 WATT	EACH	4
LIGHTING CONTROLLER, PEDESTAL MOUNTED, 240VOLT, 60AMP	EACH	1
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
PAINT NEW TRAFFIC SIGNAL POST	EACH	4
PAINT NEW COMBINATION MAST ARM AND POLE, UNDER 40 FOOT	EACH	1
PAINT NEW COMBINATION MAST ARM AND POLE, 40 FOOT AND OVER	EACH	3
TRANSCEIVER - FIBER OPTIC	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	1,408.0
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	1,763.0
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	989.5
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	2,512.0
ELECTRIC CABLE IN CONDUIT, COMMUNICATION NO. 16 6 PAIR	FOOT	778.0
ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C	FOOT	47.5
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	1,344.0
TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EACH	4
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 38 FT.	EACH	1
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 42 FT.	EACH	1
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 48 FT.	EACH	1
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 52 FT.	EACH	1
CONCRETE FOUNDATION, TYPE A	FOOT	16.0
CONCRETE FOUNDATION, TYPE C	FOOT	4.0
CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	52.0
DRILL EXISTING HANDHOLE	EACH	1
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	4
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	1
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED	EACH	6
SIGNAL HEAD, LED, 2-FACE, 5-SECTION, BRACKET MOUNTED	EACH	2
SIGNAL HEAD, LED, 2-FACE, 1-3 SECTION, 1-5 SECTION, BRACKET MOUNTED	EACH	1
PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	8
TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM	EACH	10
LIGHT DETECTOR	EACH	4
LIGHT DETECTOR AMPLIFIER	EACH	1
PEDESTRIAN PUSH-BUTTON	EACH	8
TEMPORARY TRAFFIC SIGNAL INSTALLATION	EACH	1
REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	10,542.0
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	2
REMOVE EXISTING HANDHOLE	EACH	10
REMOVE EXISTING DOUBLE HANDHOLE	EACH	1
REMOVE EXISTING CONCRETE FOUNDATION	EACH	9
EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C	FOOT	308.0
VIDEO DETECTION SYSTEM	EACH	1
FULL-ACTUATED CONTROLLER AND TYPE SUPER P CABINET, SPECIAL	EACH	1
UNINTERRUPTABLE POWER SUPPLY, SPECIAL	EACH	1
TEMPORARY TRAFFIC SIGNAL TIMING	EACH	1

COMPANY NAME: HRGreen.com  
 PROJECT CONTACT: HRGreen.com  
 CLIENT: HRGreen.com  
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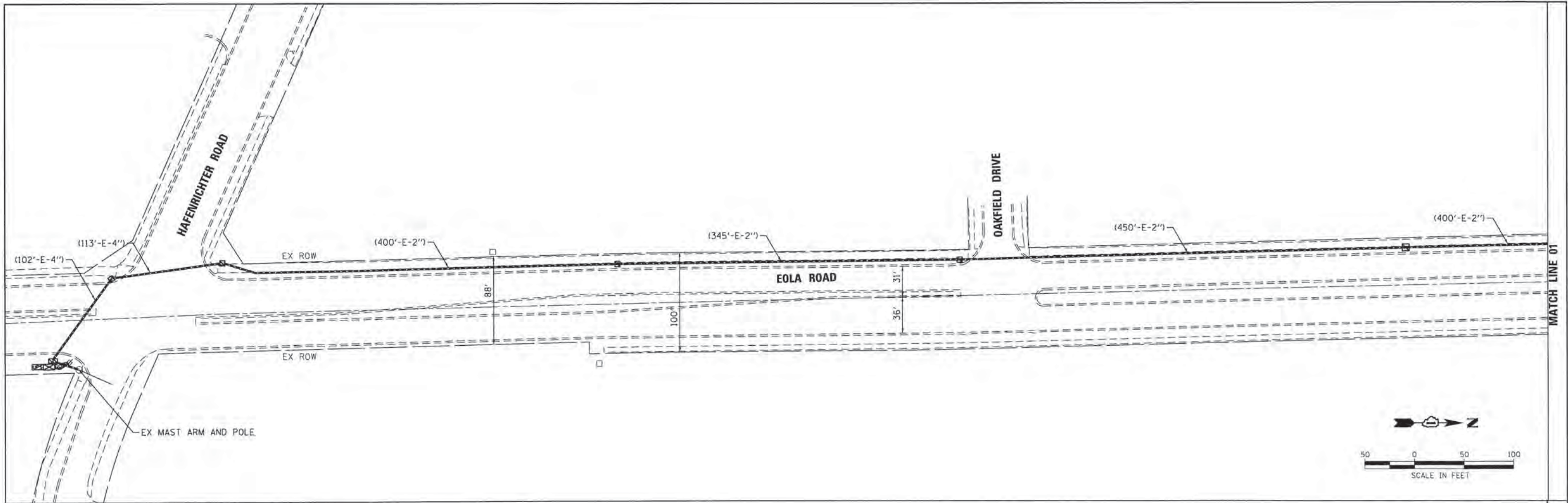
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**SIGN DETAILS AND SCHEDULE OF QUANTITIES  
EOLA ROAD AT 83RD STREET (MONTGOMERY ROAD)**

SCALE: NTS      SHEET NO. 18 OF 28 SHEETS      STA.      TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2531	10-00292-00-WR	DUPAGE	229	105
CONTRACT NO.				61C06
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



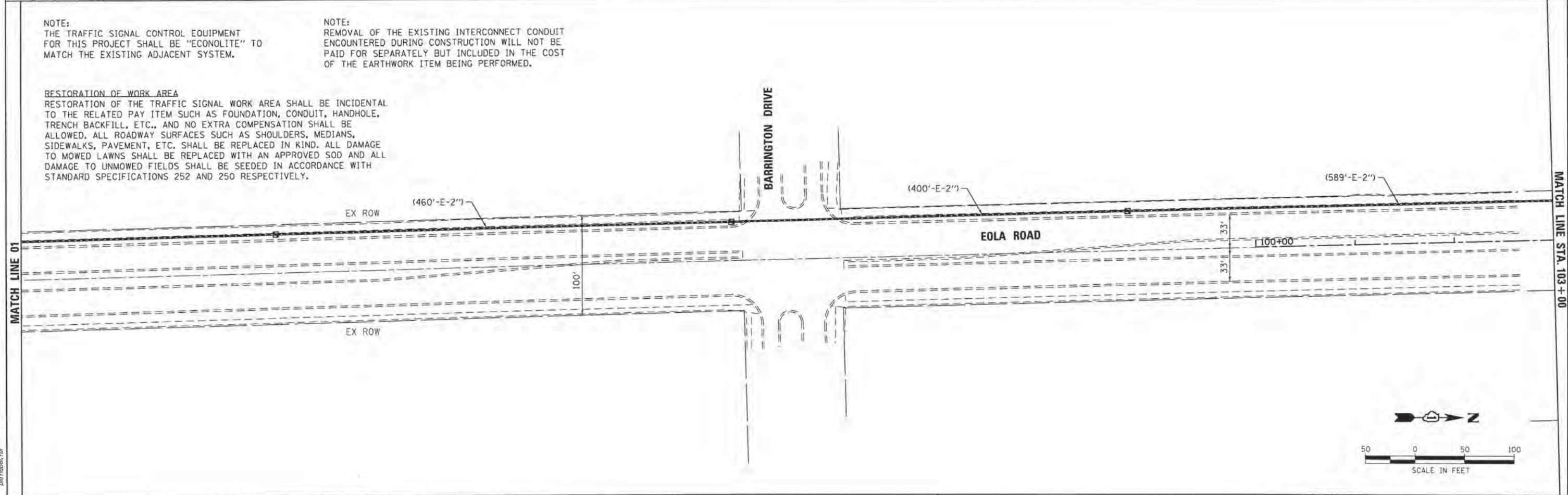


MATCH LINE 01

NOTE:  
THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS PROJECT SHALL BE "ECONOLITE" TO MATCH THE EXISTING ADJACENT SYSTEM.


NOTE:  
REMOVAL OF THE EXISTING INTERCONNECT CONDUIT ENCOUNTERED DURING CONSTRUCTION WILL NOT BE PAID FOR SEPARATELY BUT INCLUDED IN THE COST OF THE EARTHWORK ITEM BEING PERFORMED.

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



MATCH LINE STA. 103+00

COMPANY NAME: HRGreen.com  
 PROJECT CONTACT: #PROJECT\_CONTACT#  
 CLIENT: #CLIENT#  
 DATE PLOTTED: 10/20/2015 9:20:01 AM  
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 PLOT DATE: 10/30/2015

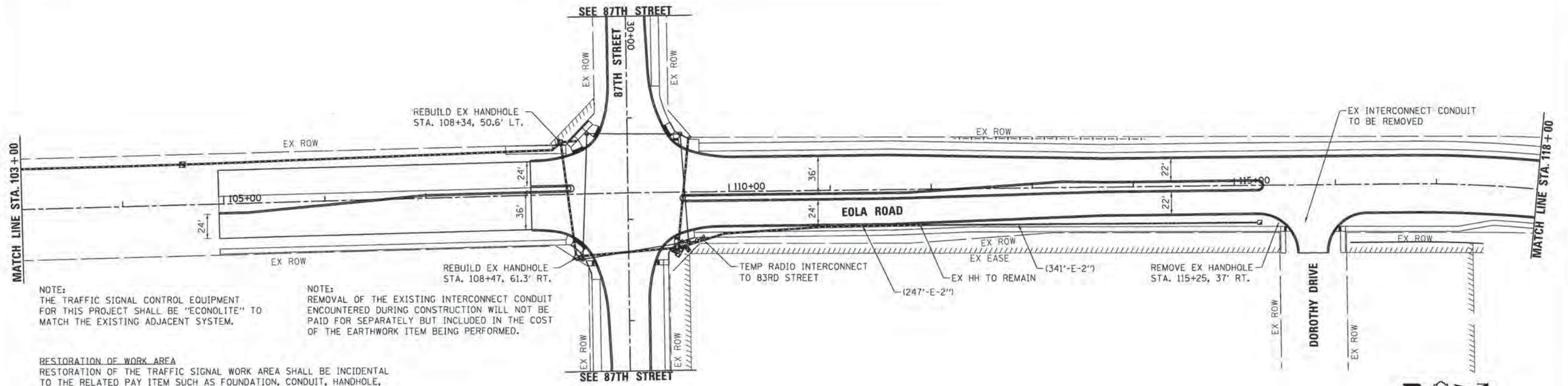
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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

<b>TEMPORARY INTERCONNECT PLAN EOLA ROAD</b>			
SCALE: 1" = 50'	SHEET NO. 19 OF 28 SHEETS	STA. BEG TO STA. 103+00	

F.A.U. RTE. 2531	SECTION 10-00292-00-WR	COUNTY DUPAGE	TOTAL SHEETS 229	SHEET NO. 106
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
CONTRACT NO. 61C06				

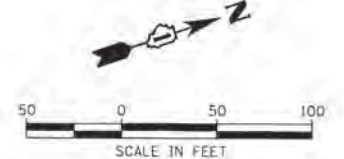
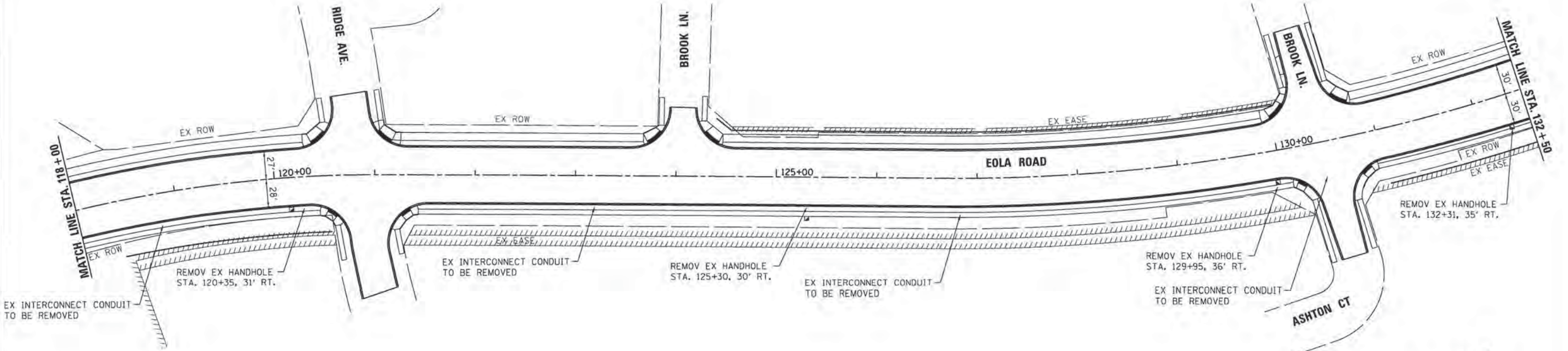
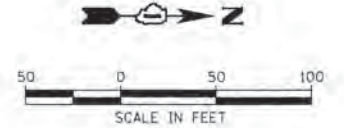




NOTE:  
THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS PROJECT SHALL BE "ECONOLITE" TO MATCH THE EXISTING ADJACENT SYSTEM.

NOTE:  
REMOVAL OF THE EXISTING INTERCONNECT CONDUIT ENCOUNTERED DURING CONSTRUCTION WILL NOT BE PAID FOR SEPARATELY BUT INCLUDED IN THE COST OF THE EARTHWORK ITEM BEING PERFORMED.

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



COMPANY NAME: HRGreen.com  
PROJECT CONTACT: [unreadable]  
DATE PLOTTED: 10/27/2015 9:20:23 AM  
FILE NAME: 86138384-shr-tempinterplan02.dgn  
PLOT DRIVER: IL\_def\_bwpdrcfg  
PEN TABLE: dia.tbl



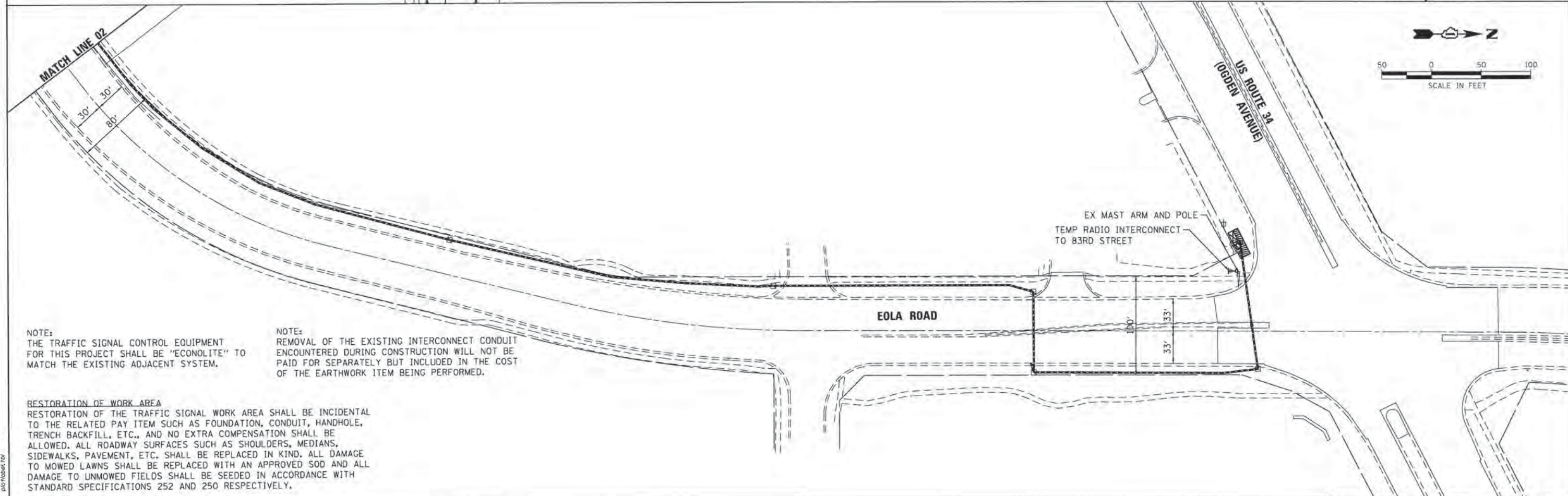
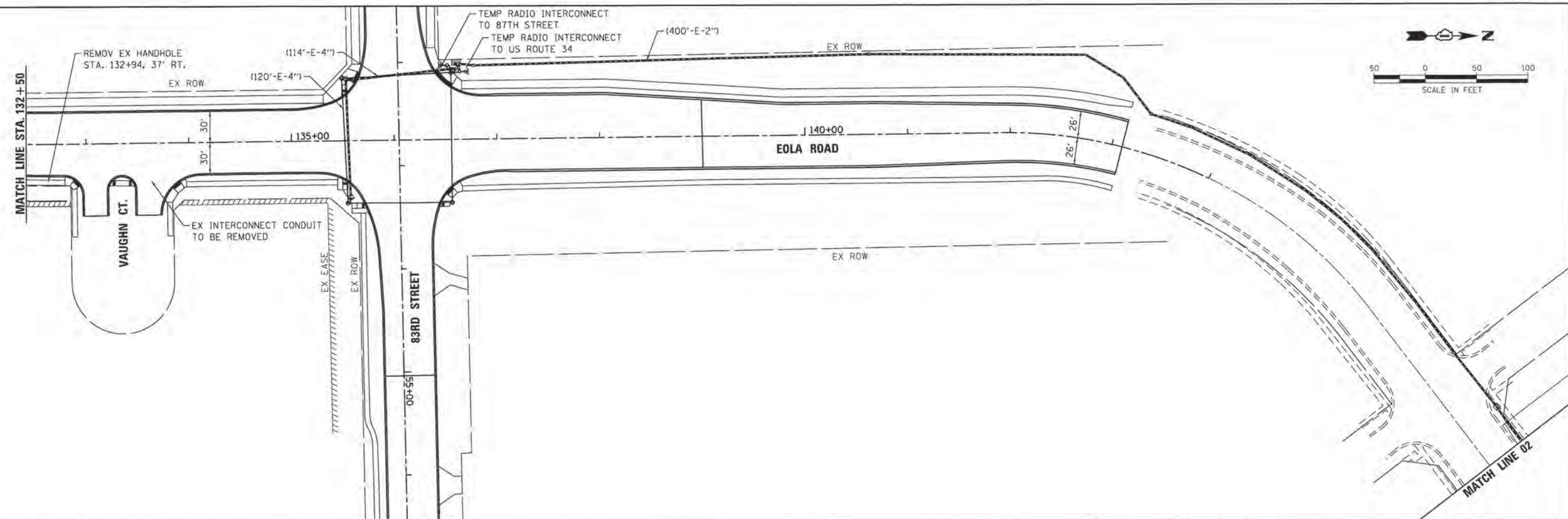
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PLOT SCALE = 1" = 50'	CHECKED - -	REVISED -
PLOT DATE = 10/30/2015	DATE - -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

<b>TEMPORARY INTERCONNECT PLAN EOLA ROAD</b>			
SCALE: 1" = 50'	SHEET NO. 20 OF 28 SHEETS	STA. 103+00 TO STA. 132+50	

F.A.U. RTE. 2531	SECTION 10-00292-00-WR	COUNTY DUPAGE	TOTAL SHEETS 229	SHEET NO. 107
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 61C06	





NOTE:  
THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS PROJECT SHALL BE "ECONOLITE" TO MATCH THE EXISTING ADJACENT SYSTEM.

NOTE:  
REMOVAL OF THE EXISTING INTERCONNECT CONDUIT ENCOUNTERED DURING CONSTRUCTION WILL NOT BE PAID FOR SEPARATELY BUT INCLUDED IN THE COST OF THE EARTHWORK ITEM BEING PERFORMED.

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

COMPANY NAME: HRGreen.com  
PROJECT CONTACT: #PROJECT\_CONTACT#  
CLIENT: #CLIENT#  
DATE PLOTTED: 10/20/2015 09:26:04 AM  
PLOT SCALE: 1" = 50'  
PEN TABLE: #PEN\_TABLE#



USER NAME = dstancez	DESIGNED -	REVISED -
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PLOT DATE = 10/30/2015	DATE -	REVISED -

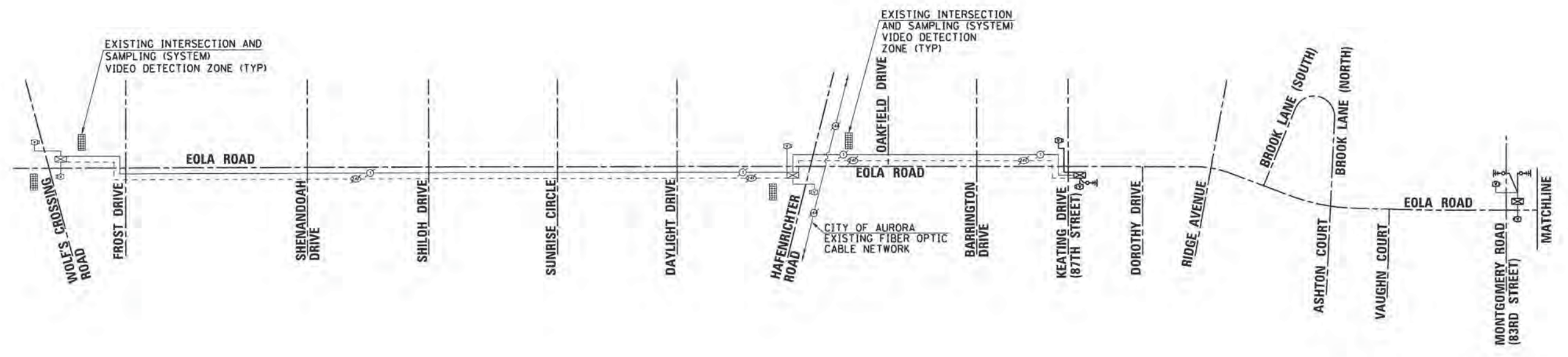
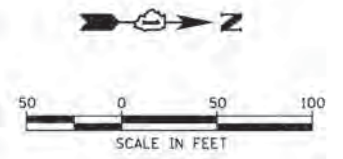
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**TEMPORARY INTERCONNECT PLAN  
EOLA ROAD**

SCALE: 1" = 50'    SHEET NO. 21 OF 28 SHEETS    STA. 132+50    TO STA. END

F.A.J. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2531	10-00292-00-WR	DUPAGE	229	108
FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT			CONTRACT NO. 61C06	





COMPANY NAME: HRGreen  
 PROJECT CONTACT: JCH  
 CLIENT: ILLINOIS DEPARTMENT OF TRANSPORTATION  
 DATE PLOTTED: 10/30/2015 10:20:27 AM  
 FILE NAME: 86138384-shi-tempintschem21.dwg  
 PLOT DRIVER: plott1  
 PEN TABLE:



USER NAME = dstencz	DESIGNED - JS	REVISED -
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PLOT DATE = 10/30/2015	DATE - 10/30/15	REVISED -

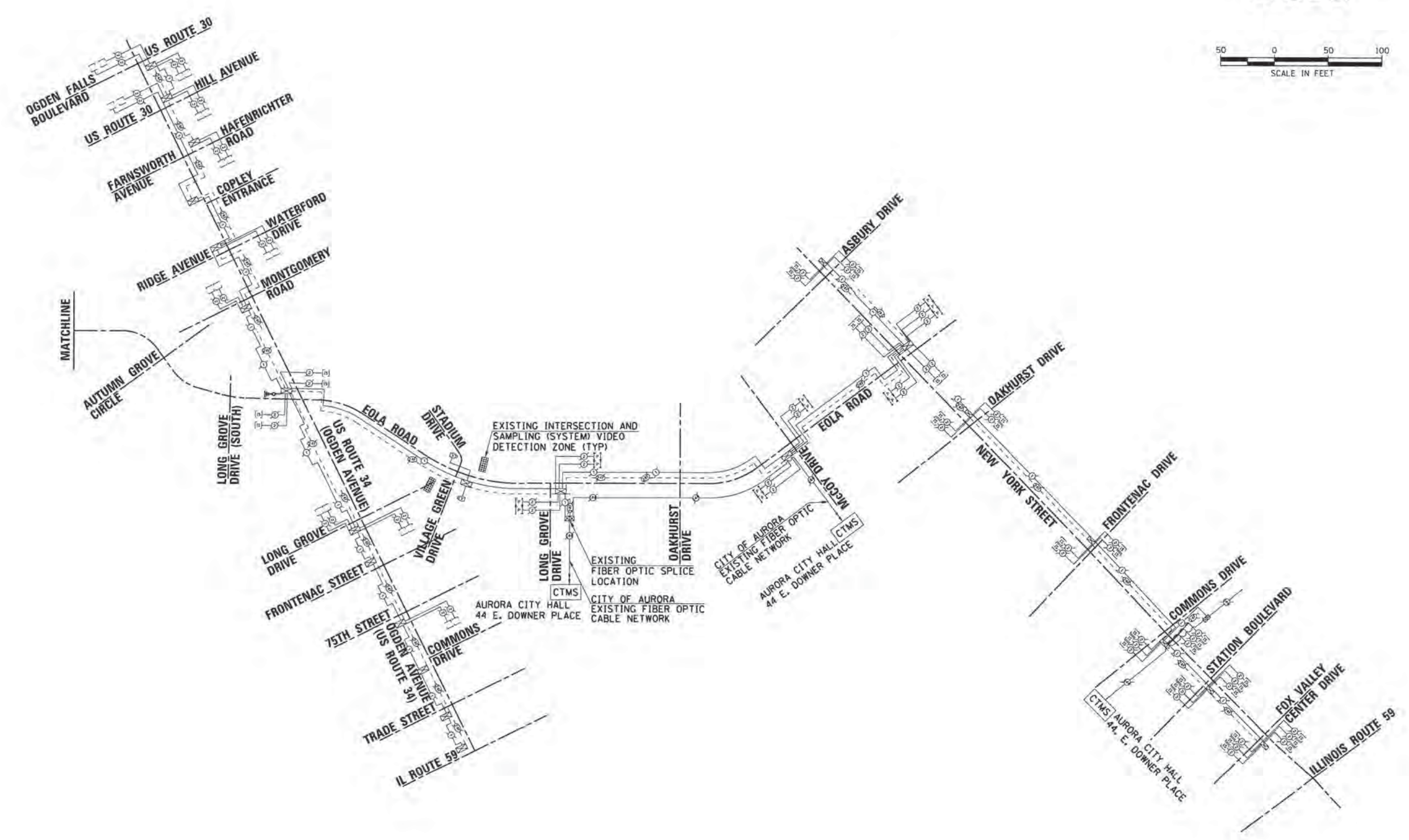
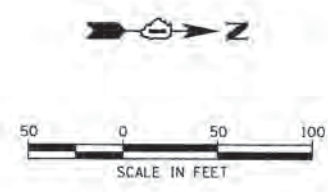
**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**TEMPORARY INTERCONNECT SCHEMATIC  
 EOLA ROAD FROM WOLFS CROSSING TO DAYLIGHT DRIVE**

SCALE: 1" = 20'    SHEET NO. 22 OF 28 SHEETS    STA. BEG.    TO STA. 110+00

F.A.U. RTE. 2531	SECTION 10-00292-00-WR	COUNTY DUPAGE	TOTAL SHEETS 229	SHEET NO. 109
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 61C06	





COMPANY NAME: HRGreen.com  
 PROJECT CONTACT: #PROJECT\_CONTACT#  
 CLIENT: #CLIENT#  
 DATE PLOTTED: 10/30/2015 9:20:07 AM  
 FILE NAME: 86138394-sh1-tempintschem01.dgn  
 PLOT DRIVER: il\_peri\_b-wplc1g  
 PEN TABLE:



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PLOT DATE = 10/30/2015	DATE - 10/30/15	REVISED -

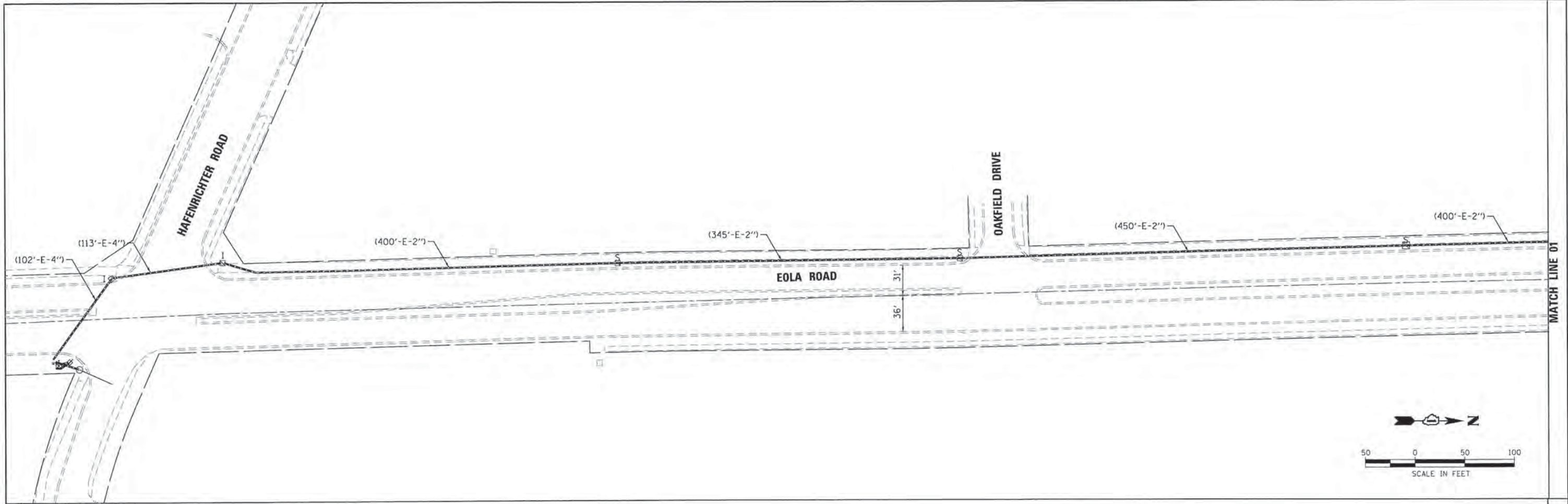
**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**TEMPORARY INTERCONNECT SCHEMATIC**  
**EOLA ROAD FROM WOLFS CROSSING TO DAYLIGHT DRIVE**

SCALE: 1" = 20'    SHEET NO. 23 OF 28 SHEETS    STA. 110+00    TO STA. END

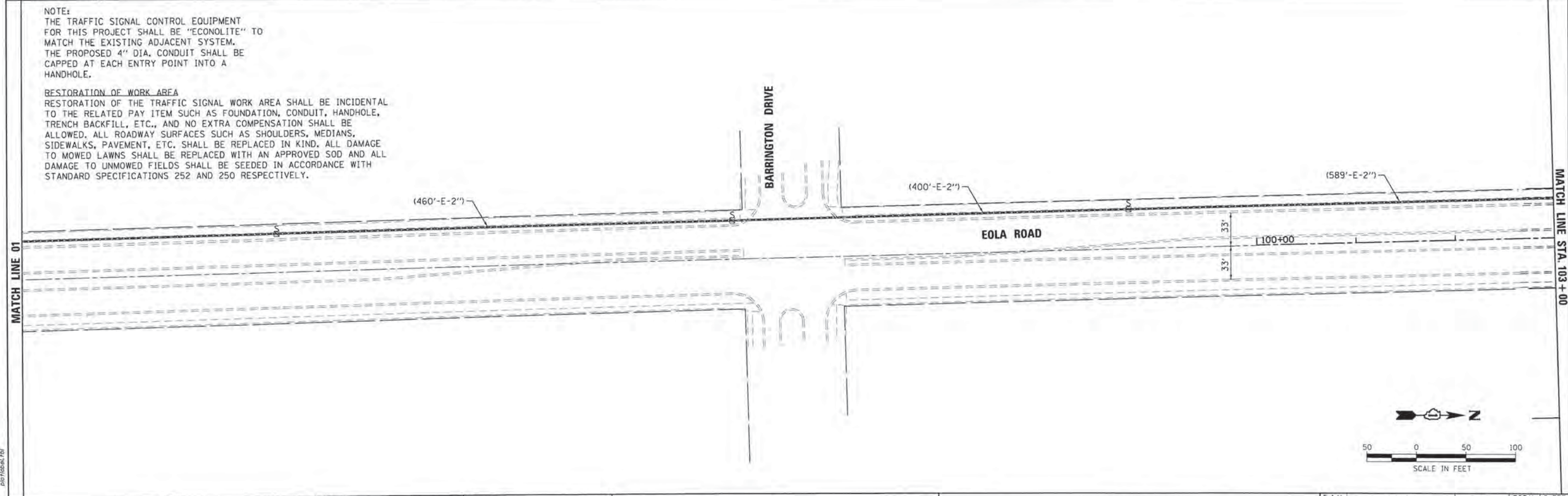
F.A.U. RTE. 2531	SECTION 10-00292-00-WR	COUNTY DUPAGE	TOTAL SHEETS 229	SHEET NO. 110
FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT			CONTRACT NO. 61C06	





NOTE:  
 THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS PROJECT SHALL BE "ECONOLITE" TO MATCH THE EXISTING ADJACENT SYSTEM. THE PROPOSED 4" DIA. CONDUIT SHALL BE CAPPED AT EACH ENTRY POINT INTO A HANDHOLE.

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



COMPANY NAME: HRGreen  
 PROJECT CONTACT: HRGreen.com  
 CLIENT: ILLINOIS DEPARTMENT OF TRANSPORTATION  
 FILE NAME: 10-00292-00-WR-INTPLAN01.dgn  
 PLOT DATE: 10/30/2015

USER NAME = dstance	DESIGNED - JS	REVISED -
FILE NAME = 06130384-ahc-intplan01.dgn	DRAWN - JCH	REVISED -
PLOT SCALE = 1" = 50'	CHECKED -	REVISED -
PLOT DATE = 10/30/2015	DATE - 10/30/15	REVISED -

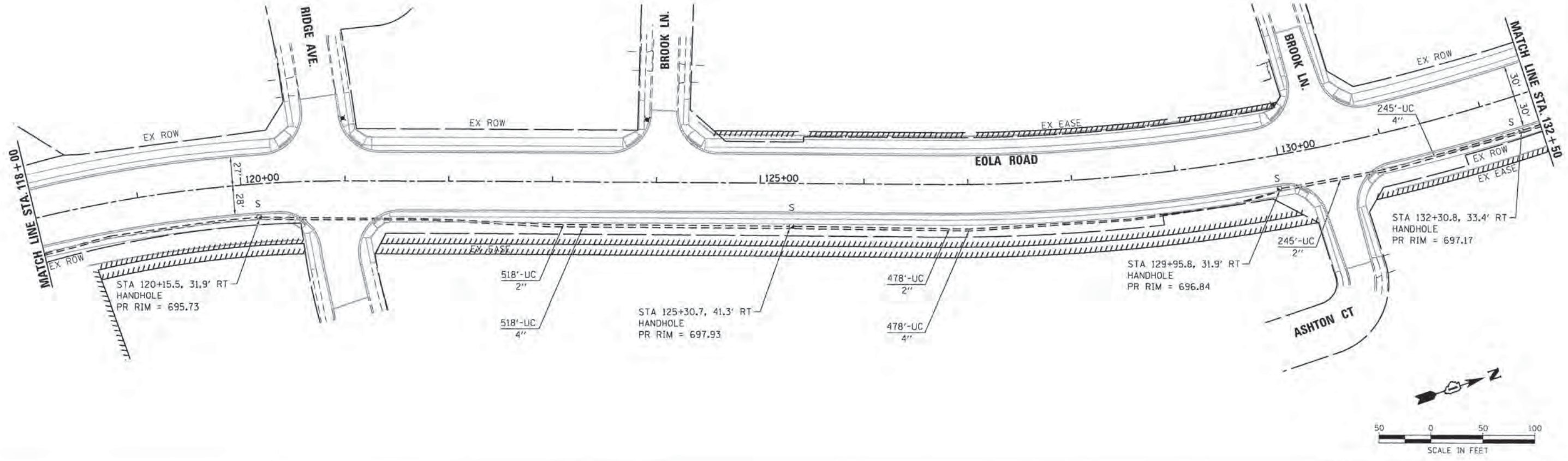
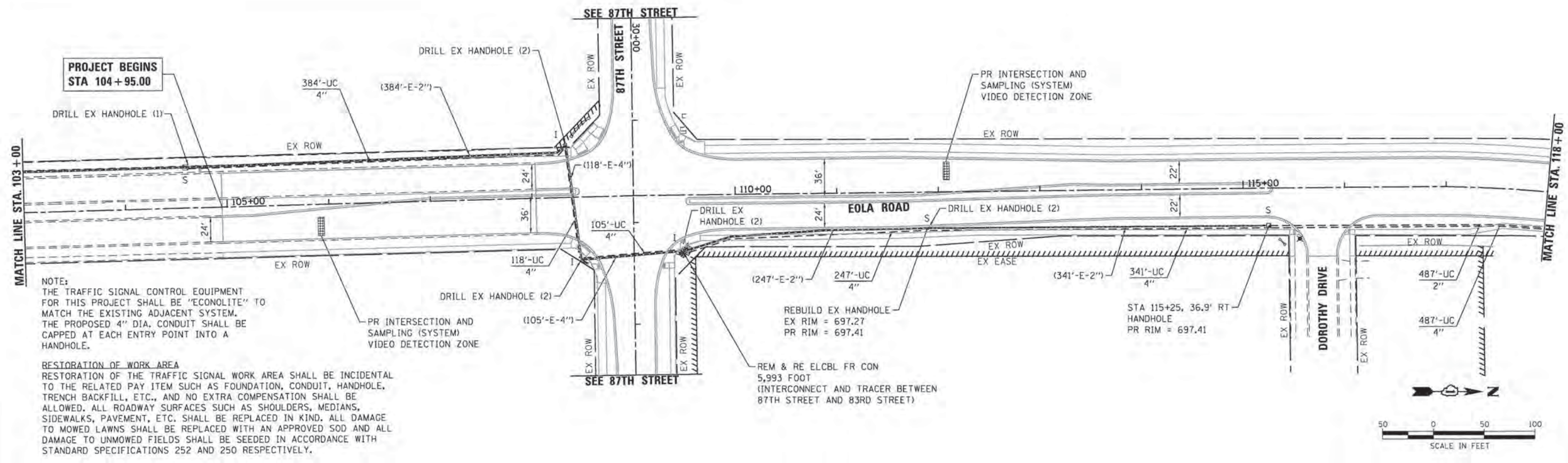
**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**INTERCONNECT PLAN  
 EOLA ROAD**

SCALE: 1" = 50'    SHEET NO. 24 OF 28 SHEETS    STA. BEG TO STA. 103+00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2531	10-00292-00-WR	DUPAGE	229	111
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 61C06	





NOTE:  
 THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS PROJECT SHALL BE "ECONOLITE" TO MATCH THE EXISTING ADJACENT SYSTEM. THE PROPOSED 4" DIA. CONDUIT SHALL BE CAPPED AT EACH ENTRY POINT INTO A HANDHOLE.

**RESTORATION OF WORK AREA**  
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COMPANY NAME: HRGreen.com  
 PROJECT CONTACT: #PROJECT\_CONTACT#  
 CLIENT: #CLIENT#  
 DATE PLOTTED: 10/30/2019 9:22 AM  
 FILE NAME: 86138384-shr-intplan@2.dgn  
 PEN TABLE: HRGreen.dwt



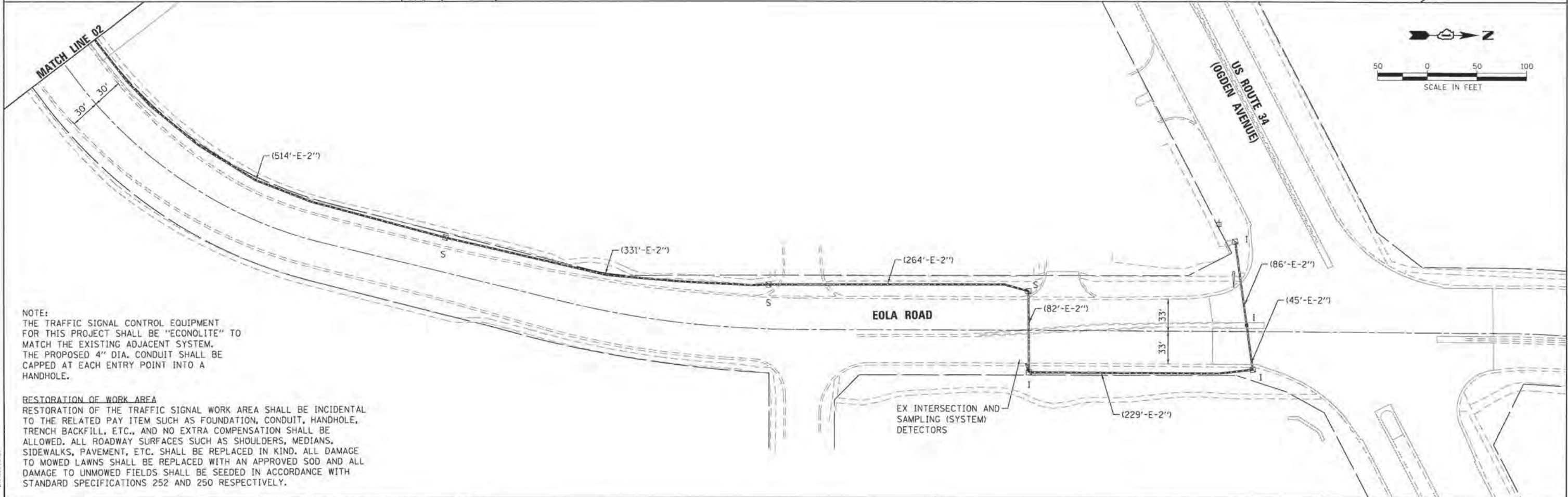
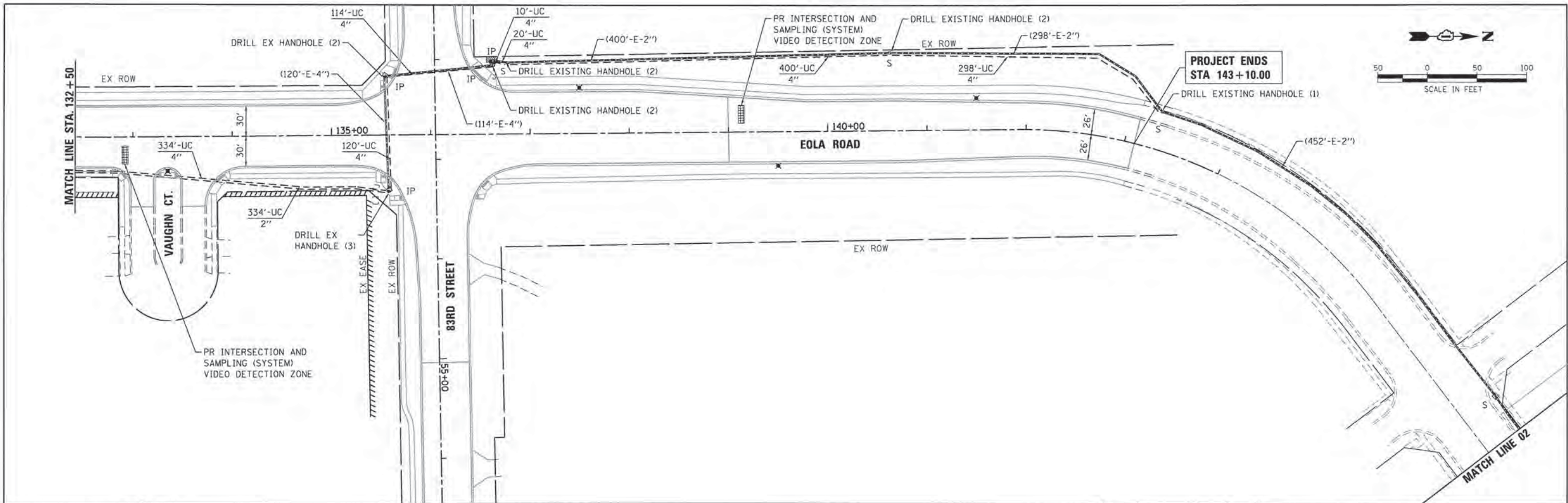
USER NAME = datencz	DESIGNED -	REVISED -
FILE NAME = 86138384-shr-intplan@2.dgn	DRAWN -	REVISED -
PLOT SCALE = 1" = 50'	CHECKED -	REVISED -
PLOT DATE = 10/30/2019	DATE -	REVISED -

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

INTERCONNECT PLAN  
 EOLA ROAD  
 SCALE: 1" = 50' SHEET NO. 25 OF 28 SHEETS STA. 103+00 TO STA. 132+50

F.A.U. RTE. 2531	SECTION 10-00292-00-WR	COUNTY DUPAGE	TOTAL SHEETS 229	SHEET NO. 112
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
		CONTRACT NO. 61C06		





NOTE:  
 THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS PROJECT SHALL BE "ECONOLITE" TO MATCH THE EXISTING ADJACENT SYSTEM. THE PROPOSED 4" DIA. CONDUIT SHALL BE CAPPED AT EACH ENTRY POINT INTO A HANDHOLE.

**RESTORATION OF WORK AREA**  
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COMPANY NAME: HRGreen  
 PROJECT CONTACT: [redacted]  
 CLIENT: [redacted]  
 DATE PLOTTED: 10/30/2015 9:23 AM  
 FILE NAME: 86132384-ah-intplan@3.dgn  
 PLOT DRIVER: [redacted]  
 PEN TABLE: [redacted]

USER NAME = dstancz	DESIGNED - JS	REVISED -
FILE NAME = 86132384-ah-intplan@3.dgn	DRAWN - JCH	REVISED -
PLOT SCALE = 1" = 50'	CHECKED -	REVISED -
PLOT DATE = 10/30/2015	DATE = 10/30/15	REVISED -

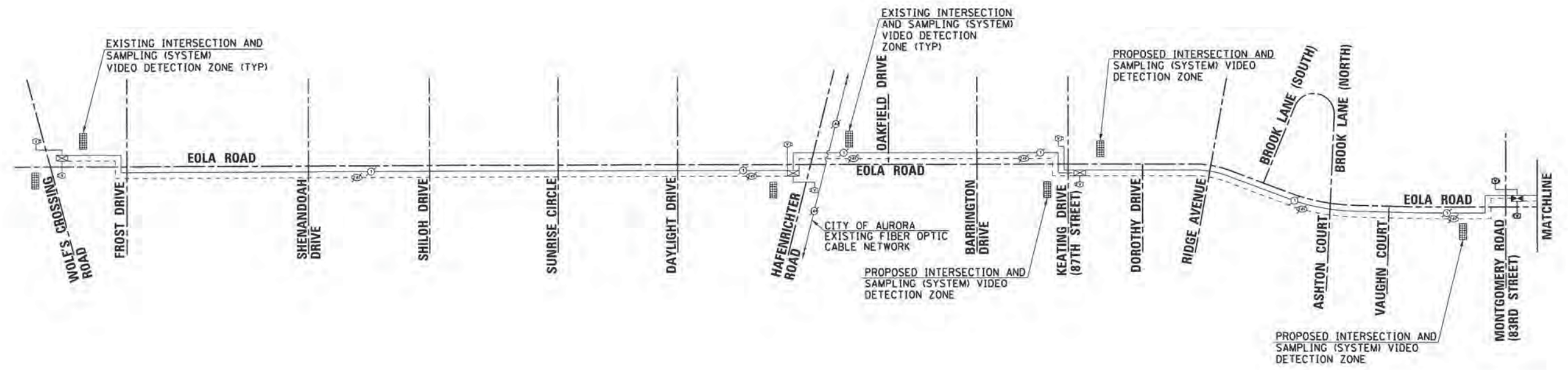
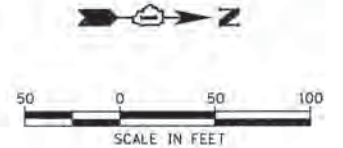
**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**INTERCONNECT PLAN  
 EOLA ROAD**

SCALE: 1" = 50'    SHEET NO. 26 OF 28 SHEETS    STA. 132+50 TO STA. END

F.A.U. RTE. 2531	SECTION 10-00292-00-WR	COUNTY DUPAGE	TOTAL SHEETS 229	SHEET NO. 113
CONTRACT NO. 61C06			ILLINOIS FED. AID PROJECT	





COMPANY NAME: HRGreen  
 PROJECT CONTACT: PROJECT CONTACT#  
 CLIENT: BELDEN  
 DATE PLOTTED: 10/30/2015 9:25 AM  
 PLOT NUMBER: 10-00292-00-001  
 PEN TABLE: 10-00292-00-001



USER NAME = dslanz	DESIGNED - JS	REVISED -
FILE NAME = B6130384-aht-intschem01.dgn	DRAWN - JCH	REVISED -
PLOT SCALE = 1" = 20'	CHECKED -	REVISED -
PLOT DATE = 10/30/2015	DATE - 10/30/15	REVISED -

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

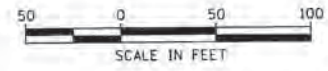
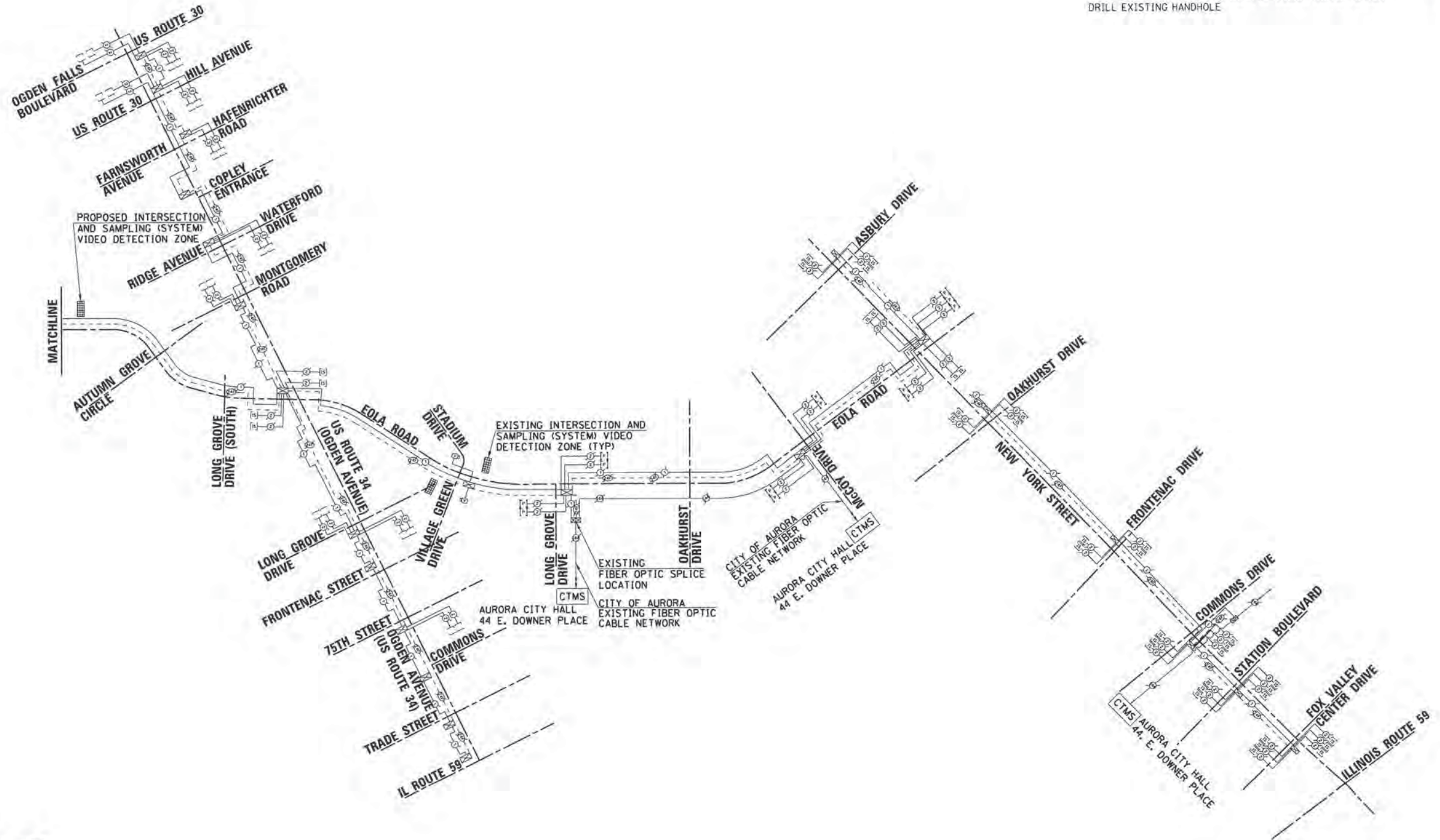
**INTERCONNECT SCHEMATIC**  
**EOLA ROAD FROM WOLFS CROSSING TO DAYLIGHT DRIVEIVE**  
 SCALE: 1" = 20'    SHEET NO. 27 OF 28 SHEETS    STA. BEG. TO STA. 138+00

F.A.U. RTE. 2531	SECTION 10-00292-00-WR	COUNTY DUPAGE	TOTAL SHEETS 229	SHEET NO. 114
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 61C06	



# INTERCONNECT SCHEDULE OF QUANTITIES

PAY ITEM DESCRIPTION	UNIT	TOTAL
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	1,748.0
UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	4,219.0
HANDHOLE	EACH	5
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	2
DRILL EXISTING HANDHOLE	EACH	21



COMPANY NAME: HRGreen  
 PROJECT CONTACT: HRGreen.com  
 CLIENT: HRGreen.com  
 DATE PLOTTED: 10/30/2015 9:26 AM  
 FILE NAME: 86138384-ehs-inschem01.dgn  
 PLOT DRIVER: plott.dwg  
 PEN TABLE:



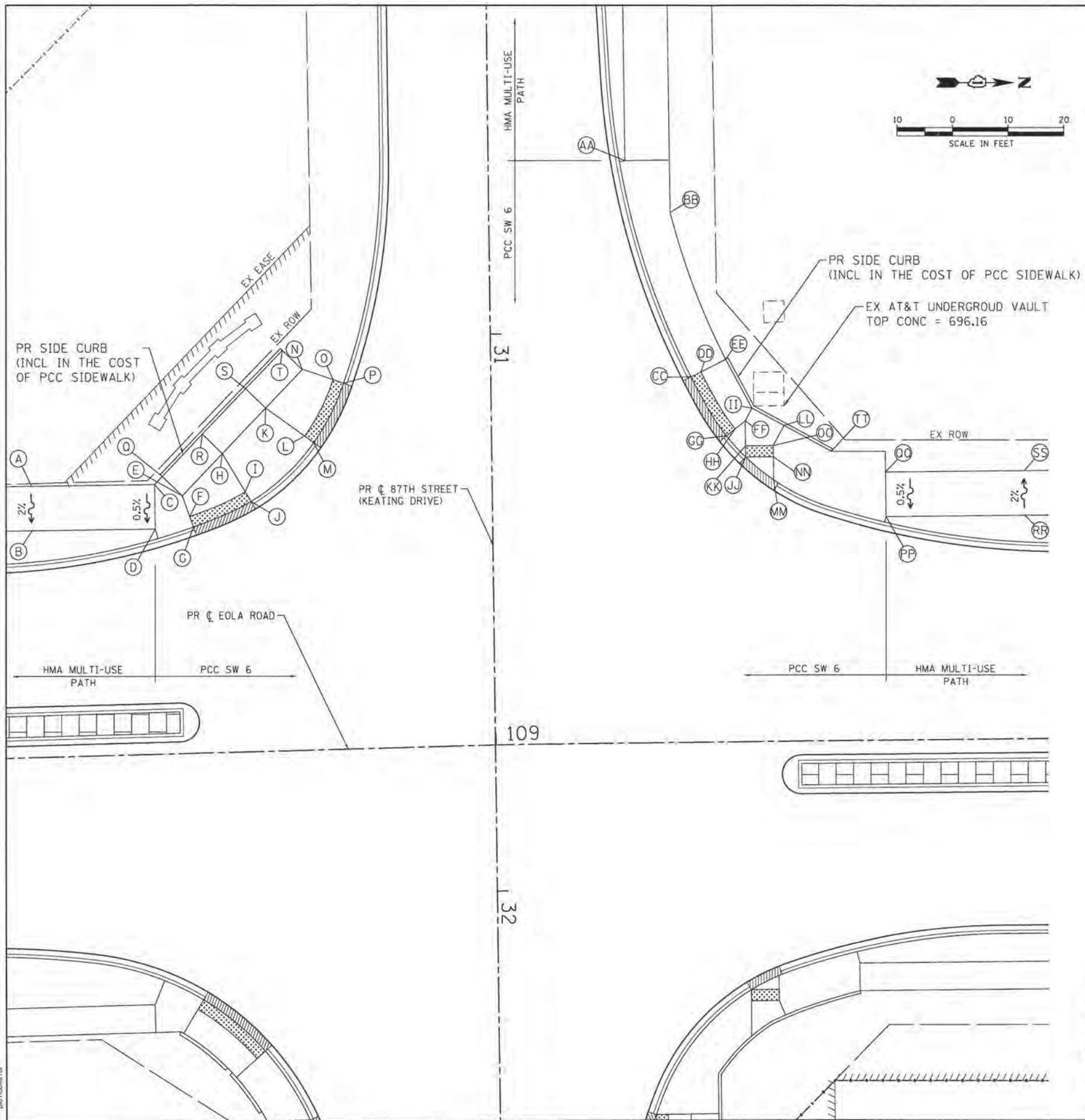
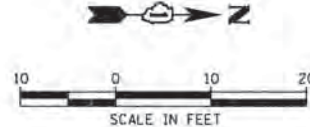
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PLOT SCALE: 1" = 20'	CHECKED:	REVISED:
PLOT DATE: 10/30/2015	DATE: 10/30/15	REVISED:

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

INTERCONNECT SCHEMATIC  
 EOLA ROAD FROM WOLFS CROSSING TO DAYLIGHT DRIVE  
 SCALE: 1" = 20' SHEET NO. 28 OF 28 SHEETS STA. 138+00 TO STA. END

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2531	10-00292-00-WR	DUPAGE	229	115
CONTRACT NO. 61C06				
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		





POINT DESCRIPTION EOLA ROAD						
POINT	STATION	OFFSET	TOP OF CURB WALL	GUTTER FLOWLINE	SIDEWALK, DRIVEWAY, OR RAMP	REMARK
A	108+17.6	48.6' LT			695.70	
B	108+17.5	40.6' LT			695.54	
C	108+39.7	48.4' LT			695.82	
D	108+39.6	40.4' LT			695.78	
E	108+44.7	46.2' LT			695.40	
F	108+45.9	42.4' LT			695.36	DT WARN
G	108+46.5	40.5' LT		695.28	695.32	DT WARN
H	108+52.0	53.5' LT			695.47	
I	108+56.0	46.6' LT			695.38	DT WARN
J	108+57.0	44.9' LT		695.30	695.34	DT WARN
K	108+60.0	61.5' LT			695.54	
L	108+67.0	56.2' LT			695.44	DT WARN
M	108+68.6	55.0' LT		695.36	695.40	DT WARN
N	108+66.8	68.2' LT			695.57	
O	108+72.3	66.2' LT			695.47	DT WARN
P	108+74.2	65.5' LT		695.39	695.43	DT WARN
Q	108+41.1	49.8' LT	695.90		695.50	
R	108+48.5	57.1' LT	695.92		695.52	
S	108+56.5	65.0' LT	695.94		695.54	
T	108+63.3	71.1' LT	695.97		695.57	
AA	109+24.4	104.5' LT			695.14	
BB	109+32.4	95.1' LT			695.39	
CC	109+35.8	65.5' LT		695.71	695.75	DT WARN
DD	109+37.6	66.4' LT			695.77	DT WARN
EE	109+42.1	68.6' LT	696.32		695.82	
FF	109+45.5	57.5' LT			695.92	
GG	109+42.1	54.8' LT		695.80	695.84	DT WARN
HH	109+43.7	56.1' LT			695.86	DT WARN
II	109+46.7	59.8' LT	696.43		695.93	
JJ	109+45.5	51.0' LT		695.84	695.88	DT WARN
KK	109+45.5	53.0' LT			695.90	DT WARN
LL	109+52.5	56.6' LT	696.52		696.02	
MM	109+50.5	46.9' LT		695.88	695.92	
NN	109+50.5	51.0' LT			695.96	DT WARN
OO	109+50.5	53.0' LT			695.98	DT WARN
PP	109+70.7	40.1' LT			696.56	
QQ	109+70.7	48.1' LT			696.60	
RR	109+95.7	40.1' LT			696.19	
SS	109+95.7	48.1' LT			696.03	
TT	109+60.9	51.9' LT	697.04		696.54	

- LEGEND**
- (A) POINT
  - [Hatched Box] DETECTABLE WARNINGS
  - [Dotted Box] CURB DEPRESSION

COMPANY NAME: HRGreen  
 PROJECT CONTACT: HRGreen  
 CLIENT: HRGreen  
 DATE PLOTTED: 11/22/2015 9:43:54 AM  
 FILE NAME: 86130384-shr-det-swr-emp-01.dwg  
 PLOT DRIVER: plott.dwg  
 PEN TABLE:



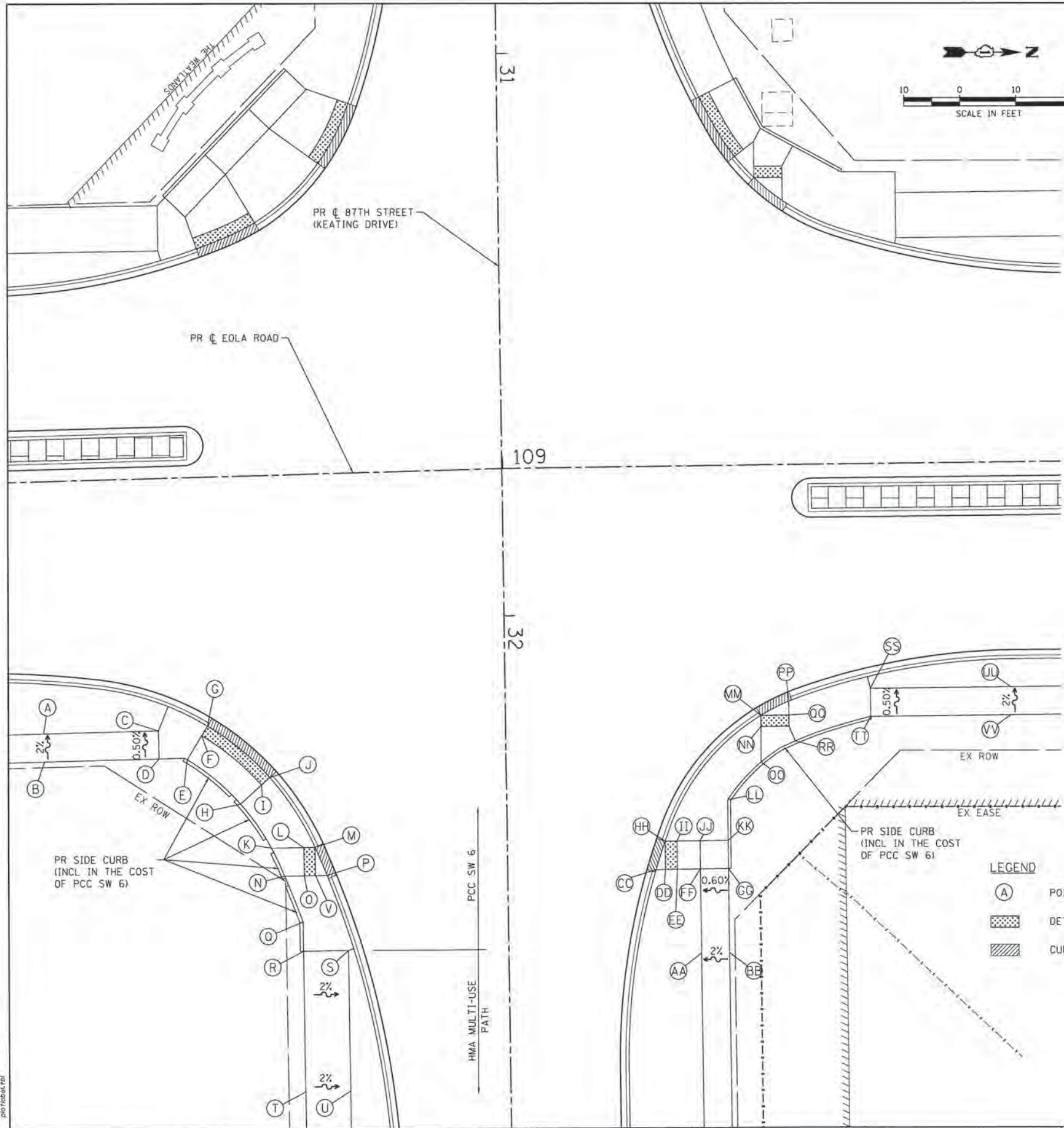
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PLOT DATE = 11/2/2015	DATE = 11/2/15	REVISED -

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**SIDEWALK RAMP DETAILS**  
 SCALE: 1"=10'    SHEET NO. 1 OF 9 SHEETS    STA.    TO STA.

F.A.U. RTE. 2531	SECTION 10-00292-00-WR	COUNTY DUPAGE	TOTAL SHEETS 229	SHEET NO. 116
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 61C06	





POINT DESCRIPTION EOLA ROAD						
POINT	STATION	OFFSET	TOP OF CURB WALL	GUTTER FLOWLINE	SIDEWALK, DRIVEWAY, OR RAMP	REMARK
A	108+16.9	44.9' RT			695.60	
B	108+16.9	49.9' RT			695.70	
C	108+37.4	44.9' RT			695.51	
D	108+37.4	49.9' RT			695.55	
E	108+42.4	50.2' RT	695.79		695.29	
F	108+45.1	46.0' RT			695.24	D WARN
G	108+46.2	44.3' RT		695.17	695.21	D WARN
H	108+51.7	58.3' RT	695.90		695.40	
I	108+55.5	55.1' RT			695.28	
J	108+57.0	53.8' RT		695.21	695.25	D WARN
K	108+57.0	66.3' RT			695.60	
L	108+62.7	66.3' RT			695.41	D WARN
M	108+64.7	66.4' RT		695.26	695.30	D WARN
N	108+59.2	71.3' RT	696.19		695.69	
O	108+62.7	71.3' RT			695.45	D WARN
P	108+66.7	71.4' RT		695.28	695.32	
Q	108+62.2	79.5' RT	696.37		695.87	
R	108+62.1	84.8' RT	696.33		695.83	
S	108+70.1	84.9' RT			695.67	
T	108+61.8	109.8' RT			696.16	
U	108+69.8	109.9' RT			696.00	
V	108+64.7	71.4' RT			695.34	D WARN
AA	109+34.4	86.8' RT			696.47	
BB	109+39.4	86.8' RT			696.57	
CC	109+26.5	71.8' RT		695.11	695.15	
DD	109+28.1	71.8' RT			695.18	D WARN
EE	109+30.3	71.8' RT			695.22	D WARN
FF	109+34.4	71.8' RT			695.31	
GG	109+39.4	71.8' RT	696.84		695.34	
HH	109+28.1	66.8' RT		695.08	695.12	D WARN
II	109+30.3	66.8' RT			695.16	D WARN
JJ	109+34.4	66.8' RT			695.25	
KK	109+39.4	66.8' RT	696.84		695.34	
LL	109+39.4	59.6' RT	696.35		695.76	
MM	109+45.5	44.7' RT		695.69	695.73	D WARN
NN	109+45.5	46.7' RT			695.83	D WARN
OO	109+45.4	53.0' RT	696.80		696.00	
PP	109+50.5	42.2' RT		695.84	695.88	
QQ	109+50.5	44.7' RT			695.88	D WARN
RR	109+51.6	49.3' RT	696.92		696.12	
SS	109+65.1	40.1' RT			696.44	
TT	109+65.1	45.1' RT	697.00		696.49	
UU	109+90.1	40.1' RT			696.60	
VV	109+90.1	45.1' RT			696.70	

**LEGEND**

- (A) POINT
- [Patterned Box] DETECTABLE WARNINGS
- [Hatched Box] CURB DEPRESSION

COMPANY NAME: HRGreen.com  
 PROJECT CONTACT: D. STANLEY  
 CLIENT: HRGreen.com  
 DATE PLOTTED: 11/22/2015 9:43:56 AM  
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 PLOT DRIVER: IL\_cad-2014.rvt  
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HRGreen.com  
 Illinois Professional Design Firm  
 #184-01922

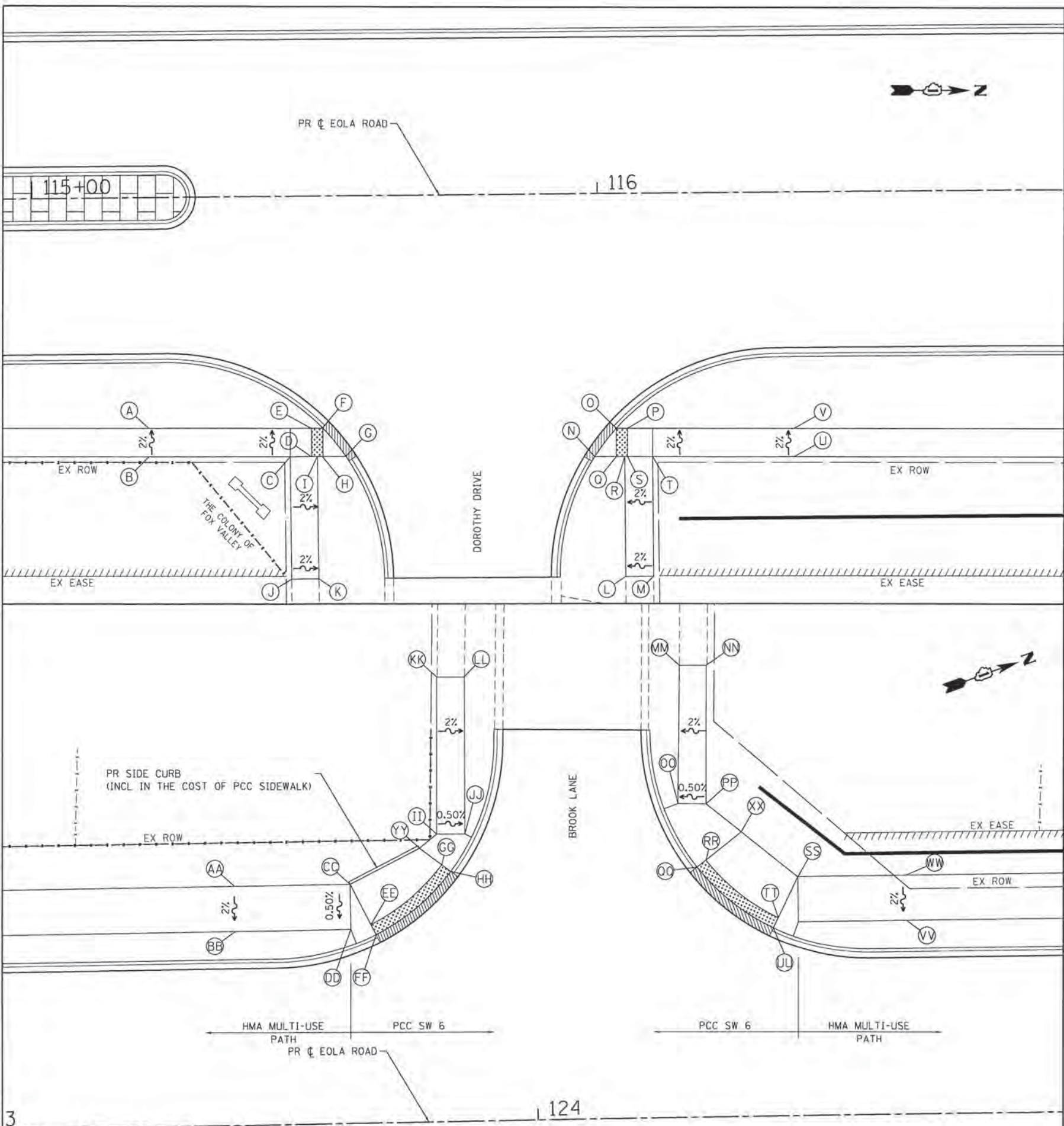
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PLOT DATE = 11/22/2015	DATE = 11/2/2015	REVISED =

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**SIDEWALK RAMP DETAILS**  
 SCALE: 1"=10'    SHEET NO. 2 OF 9 SHEETS    STA.    TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2531	10-00292-00-WR	DUPAGE	229	117
FED. ROAD DIST. NO.			ILLINOIS FED. AID PROJECT	
			CONTRACT NO. 61C06	





POINT DESCRIPTION EOLA ROAD						
POINT	STATION	OFFSET	TOP OF CURB WALL	GUTTER FLOWLINE	SIDEWALK, DRIVEWAY, OR RAMP	REMARK
A	115+20.4	40.6' RT			701.00	
B	115+20.3	45.6' RT			701.10	
C	115+45.3	45.9' RT			700.16	
D	115+49.0	45.9' RT			700.08	D WARN
E	115+49.0	40.9' RT			700.10	D WARN
F	115+51.0	40.9' RT		700.02	700.06	D WARN
G	115+55.1	45.9' RT		699.92	699.96	
H	115+51.0	45.9' RT			700.04	D WARN
I	115+50.1	45.9' RT			700.06	D WARN
J	115+45.4	67.4' RT			700.46	MEET EX
K	115+50.2	67.4' RT			700.36	MEET EX
L	116+04.4	67.6' RT			700.45	MEET EX
M	116+09.4	67.6' RT			700.55	MEET EX
N	115+99.1	46.4' RT		699.82	699.86	
O	116+03.0	41.5' RT		699.85	699.89	
P	116+05.0	41.5' RT			699.93	
Q	116+03.0	46.5' RT			699.94	
R	116+04.5	46.5' RT			699.97	
S	116+05.0	46.5' RT			699.98	
T	116+09.4	46.5' RT			700.07	
U	116+34.4	46.8' RT			701.20	
V	116+34.5	41.8' RT			701.10	
AA	123+47.0	42.1' LT			696.85	
BB	123+47.0	34.1' LT			696.69	
CC	123+67.4	42.1' LT	697.10		696.30	
DD	123+67.4	34.1' LT			696.23	
EE	123+71.0	34.9' LT			696.16	
FF	123+71.9	33.1' LT		696.09	696.13	
GG	123+83.6	45.3' LT			696.00	
HH	123+85.2	44.0' LT		695.93	695.97	
II	123+82.8	50.7' LT			696.32	
JJ	123+87.8	50.6' LT			696.30	
KK	123+83.2	78.4' LT			696.66	MEET EX
LL	123+88.1	78.3' LT			696.53	MEET EX
MM	124+26.2	79.7' LT			696.50	MEET EX
NN	124+30.9	79.7' LT			696.60	MEET EX
OO	124+25.6	55.3' LT			696.53	
PP	124+30.6	55.2' LT			696.53	
QQ	124+28.8	44.0' LT		696.30	696.34	D WARN
RR	124+30.4	45.3' LT			696.38	D WARN
SS	124+46.6	42.0' LT			696.86	
TT	124+43.1	34.9' LT			696.82	D WARN
UU	124+42.0	33.1' LT		696.78	696.82	D WARN
VV	124+65.8	34.1' LT			697.71	
WW	124+65.8	42.1' LT			697.87	
XX	124+36.7	50.2' LT			696.52	
YY	123+79.8	48.3' LT	696.88		696.08	

- LEGEND**
- (A) POINT
  - [Pattern] DETECTABLE WARNINGS
  - [Pattern] CURB DEPRESSION

COMPANY NAME: HRGreen  
 PROJECT CONTACT: HRGreen.com  
 CLIENT: HRGreen.com  
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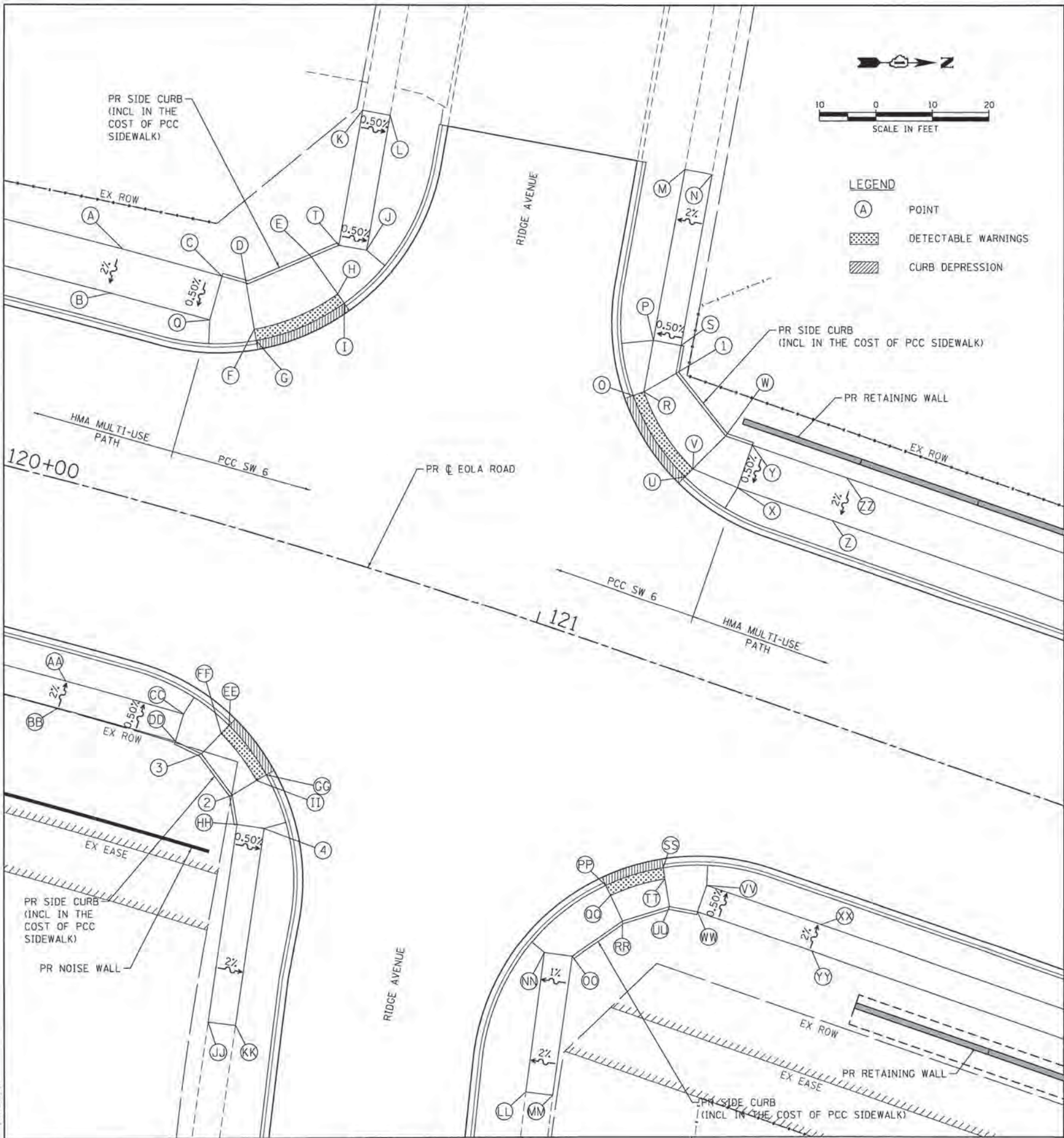
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**SIDEWALK RAMP DETAILS**

SCALE: 1"=10' SHEET NO. 3 OF 9 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2531	10-00292-00-WR	DUPAGE	229	118
FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT			CONTRACT NO. 61C06	





POINT DESCRIPTION EOLA ROAD						
POINT	STATION	OFFSET	TOP OF CURB WALL	GUTTER FLOWLINE	SIDEWALK, DRIVEWAY, OR RAMP	REMARK
A	120+12.3	42.1' LT			696.87	
B	120+12.2	34.1' LT			696.71	
C	120+29.2	42.1' LT	696.36		695.86	
D	120+34.3	41.9' LT	696.30		695.50	
E	120+43.7	49.7' LT	696.09		695.29	
F	120+37.7	34.7' LT			695.36	D WARN
G	120+38.6	32.9' LT		695.29	695.33	D WARN
H	120+49.8	44.7' LT			695.15	D WARN
I	120+51.3	43.5' LT		695.08	695.12	D WARN
J	120+52.4	53.5' LT			695.50	
K	120+45.1	77.0' LT			696.32	MEET EX
L	120+49.7	77.5' LT			696.32	MEET EX
M	120+99.3	84.2' LT			696.22	MEET EX
N	121+03.8	85.0' LT			696.45	MEET EX
O	121+03.2	43.5' LT		694.83	694.87	D WARN
P	121+03.5	53.9' LT			695.21	
Q	120+29.9	34.1' LT			695.82	
R	121+04.8	44.7' LT			694.90	D WARN
S	121+08.2	54.6' LT	695.73		695.23	
T	120+47.7	53.0' LT	696.02		695.52	
U	121+16.4	32.9' LT		695.00	695.04	D WARN
V	121+17.3	34.7' LT			695.07	D WARN
W	121+20.8	42.1' LT	696.01		695.21	
X	121+25.8	34.1' LT			695.45	
Y	121+25.8	42.1' LT	695.23		695.49	
Z	121+43.6	34.1' LT			695.73	
ZZ	121+43.6	42.1' LT			695.89	
1	121+08.9	49.7' LT	695.81		695.01	
AA	120+22.2	34.1' RT			696.11	
BB	120+22.1	39.1' RT			696.21	
CC	120+44.5	34.1' RT			695.80	
DD	120+44.4	39.1' RT	696.32		695.82	
EE	120+53.0	33.7' RT		695.35	695.39	D WARN
FF	120+52.0	35.5' RT			695.42	D WARN
GG	120+62.1	40.1' RT		695.30	695.34	D WARN
HH	120+59.6	50.0' RT	696.14		695.64	
II	120+60.6	41.6' RT			695.37	D WARN
JJ	120+65.2	84.9' RT			697.00	MEET EX
KK	120+70.3	84.0' RT			696.89	MEET EX
LL	121+25.3	79.1' RT			695.82	MEET EX
MM	121+30.0	78.1' RT			696.05	MEET EX
NN	121+20.4	54.8' RT			695.75	
OO	121+25.3	53.8' RT	696.30		695.80	
PP	121+26.8	39.9' RT		695.18	695.22	D WARN
QQ	121+28.1	41.4' RT			695.25	D WARN
RR	121+31.6	45.0' RT	696.14		695.34	
SS	121+35.3	33.7' RT		695.12	695.16	D WARN
TT	121+36.3	35.4' RT			695.19	D WARN
UU	121+38.7	39.8' RT	696.08		695.28	
VV	121+43.7	34.1' RT			695.51	
WW	121+43.7	39.1' RT	696.03		695.53	
XX	121+65.1	34.1' RT			696.18	
YY	121+65.1	39.1' RT			696.28	
2	120+57.2	45.3' RT	696.26		695.46	
3	120+49.6	39.9' RT	696.31		695.51	
4	120+64.5	49.3' RT			695.62	

COMPANY NAME: HRGreen  
 PROJECT CONTACT: #PROJECT CONTACT#  
 CLIENT: #CLIENT#  
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**HRGreen**  
 HRGreen.com  
 Illinois Professional Design Firm  
 #194-001222

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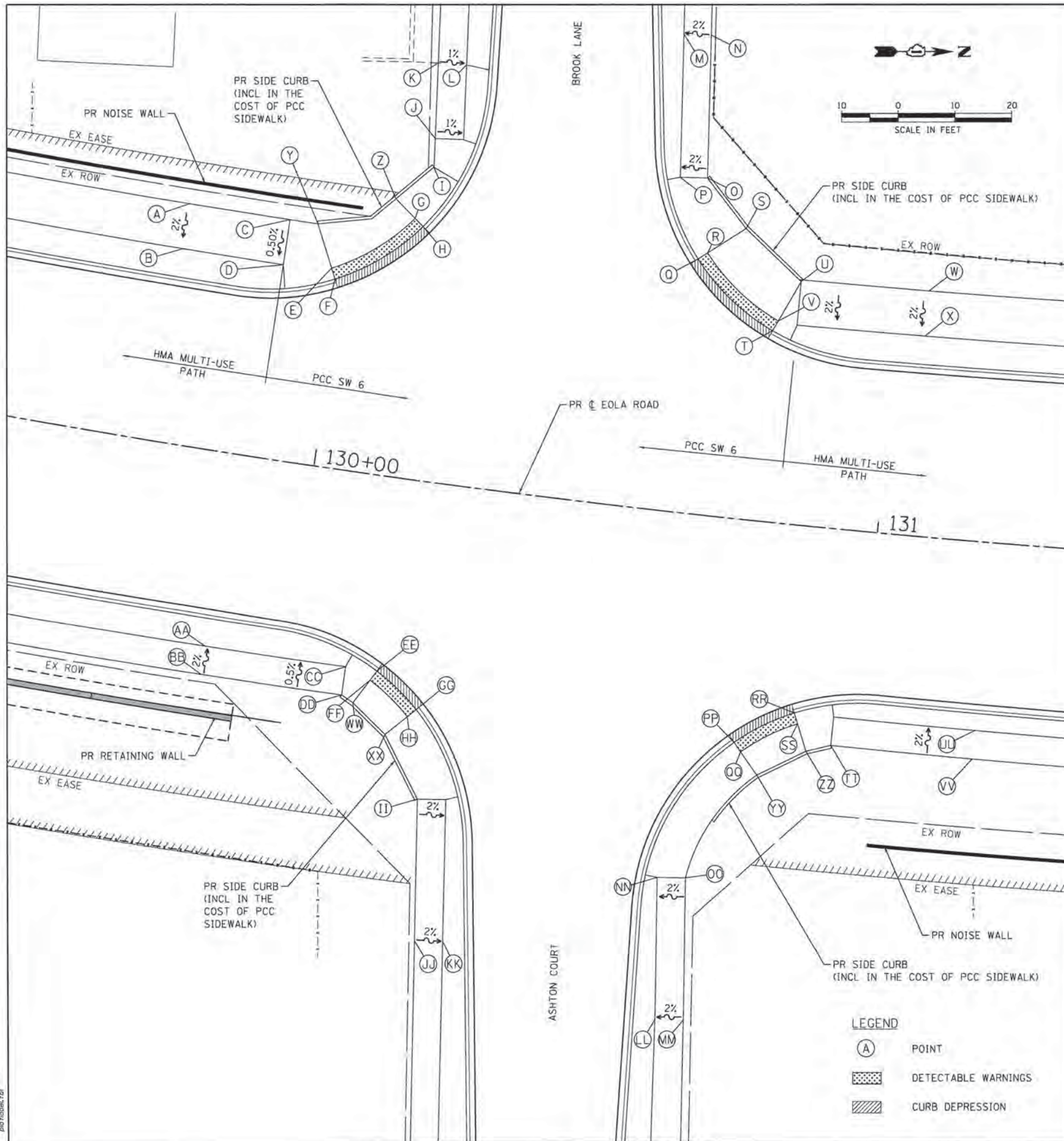
**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**SIDEWALK RAMP DETAILS**

SCALE: 1"=10'    SHEET NO. 4 OF 9 SHEETS    STA.    TO STA.

F.A.U. RTE. 2531	SECTION 10-00292-00-WR	COUNTY DUPAGE	TOTAL SHEETS 229	SHEET NO. 119
FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT			CONTRACT NO. 61C06	





POINT DESCRIPTION EOLA ROAD						
POINT	STATION	OFFSET	TOP OF CURB WALL	GUTTER FLOWLINE	SIDEWALK, DRIVEWAY, OR RAMP	REMARK
A	129+70.9	42.1' LT			696.55	
B	129+71.1	34.1' LT			696.39	
C	129+89.3	42.1' LT			696.39	
D	129+89.3	34.1' LT			696.35	
E	129+98.0	34.7' LT			695.96	D WARN
F	129+98.9	32.9' LT		695.89	695.93	D WARN
G	130+11.6	45.5' LT			695.87	D WARN
H	130+13.2	44.3' LT		695.80	695.84	D WARN
I	130+13.7	54.9' LT			696.25	
J	130+13.2	59.9' LT			696.22	
K	130+11.9	73.0' LT			696.27	
L	130+17.1	73.4' LT			696.17	
M	130+56.1	83.5' LT			696.27	
N	130+61.1	83.9' LT			696.37	
O	130+63.4	59.1' LT	696.78		696.28	
P	130+58.4	53.6' LT			696.18	
Q	130+63.3	44.7' LT		695.80	695.84	D WARN
R	130+64.9	45.9' LT			695.88	D WARN
S	130+71.3	50.9' LT	696.52		696.02	
T	130+78.0	33.5' LT		695.93	695.97	D WARN
U	130+82.2	42.6' LT	696.64		696.14	
V	130+78.8	35.3' LT			696.00	D WARN
W	131+05.4	43.1' LT			696.76	
X	131+05.3	35.1' LT			696.60	
Y	129+94.4	42.1' LT	696.60		696.10	
Z	130+07.7	48.5' LT	696.45		695.95	
AA	129+85.9	34.1' RT			696.83	
BB	129+86.0	39.1' RT			696.93	
CC	130+10.4	34.1' RT			696.70	
DD	130+10.4	39.1' RT	697.22		696.72	
EE	130+15.9	34.1' RT		696.37	696.41	D WARN
FF	130+14.9	35.8' RT			696.44	D WARN
GG	130+23.5	39.9' RT		696.61	696.65	D WARN
HH	130+30.1	50.9' RT			696.65	D WARN
II	130+25.7	55.4' RT	698.11		697.61	
JJ	130+28.3	80.3' RT			698.17	
KK	130+33.0	84.0' RT			698.07	
LL	130+70.1	89.1' RT			698.37	
MM	130+74.9	88.7' RT			698.47	
NN	130+67.5	59.9' RT			697.92	
OO	130+72.7	63.8' RT			698.02	
PP	130+78.6	39.2' RT		696.68	696.72	D WARN
QQ	130+79.9	40.7' RT			696.72	D WARN
RR	130+88.5	33.0' RT		696.39	696.43	D WARN
SS	130+89.2	34.8' RT			696.47	D WARN
TT	130+95.3	38.0' RT	697.42		696.62	
UU	131+19.9	33.2' RT			696.64	
VV	131+19.8	38.2' RT			696.74	
WW	130+12.5	40.2' RT	697.33		696.53	
XX	130+18.8	44.9' RT	697.54		696.74	
YY	130+83.1	44.5' RT	697.54		696.74	
ZZ	130+91.1	39.5' RT	697.37		696.57	

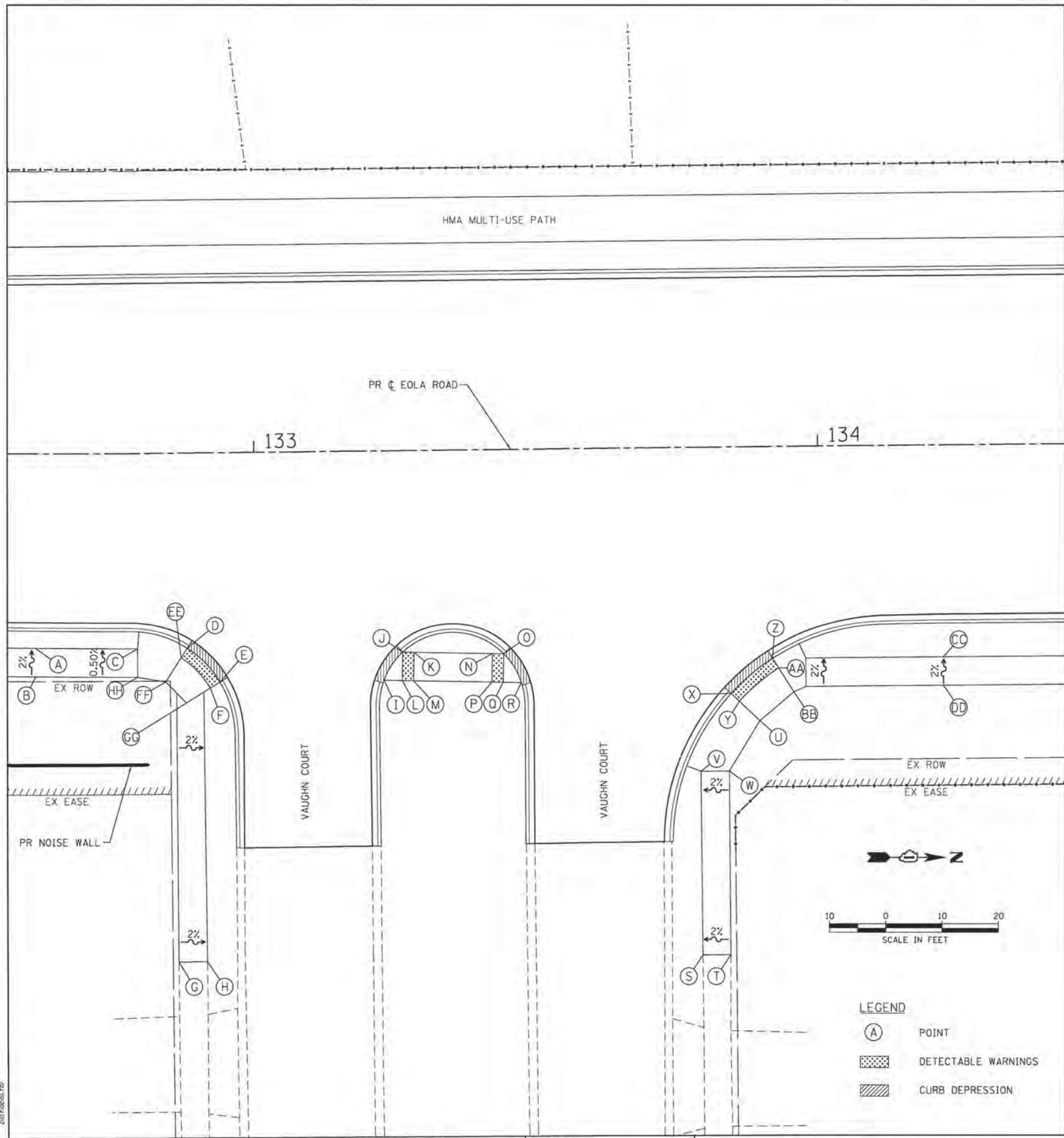
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 PROJECT CONTACT: HRGreen  
 CLIENT: HRGreen  
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**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

<b>SIDEWALK RAMP DETAILS</b>		F.A.U. RTE. 2531	SECTION 10-00292-00-WR	COUNTY DUPAGE	TOTAL SHEETS 229	SHEET NO. 120
SCALE: 1"=10'	SHEET NO. 5 OF 9 SHEETS	STA.	TO STA.	CONTRACT NO. 61C06	FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT	





POINT DESCRIPTION EOLA ROAD						
POINT	STATION	OFFSET	TOP OF CURB WALL	GUTTER FLOWLINE	SIDEWALK, DRIVEWAY, OR RAMP	REMARK
A	132+61.3	34.4' RT			697.24	
B	132+61.4	39.4' RT			697.34	
C	132+84.1	34.6' RT			697.44	
D	132+87.9	34.6' RT		696.98	697.02	D WARN
E	132+93.6	40.6' RT		697.04	697.08	D WARN
F	132+91.9	41.6' RT			697.11	D WARN
G	132+85.8	90.0' RT			697.82	MEET EX
H	132+90.8	90.0' RT			697.58	MEET EX
I	133+22.7	40.6' RT		697.11	697.15	
J	133+26.1	35.7' RT		697.15	697.19	D WARN
K	133+28.1	35.7' RT			697.22	D WARN
L	133+25.9	40.7' RT			697.20	D WARN
M	133+27.9	40.7' RT			697.23	D WARN
N	133+41.9	36.1' RT			697.22	D WARN
O	133+43.9	36.2' RT		697.15	697.19	D WARN
P	133+41.8	41.1' RT			697.24	D WARN
Q	133+43.8	41.2' RT			697.21	D WARN
R	133+47.0	41.3' RT		697.12	697.16	
S	133+78.8	90.0' RT			697.89	MEET EX
T	133+83.7	90.0' RT			697.80	MEET EX
U	133+89.3	48.5' RT			697.46	
V	133+78.7	57.4' RT			697.69	
W	133+83.8	57.4' RT			697.79	
X	133+84.2	43.7' RT		697.30	697.34	D WARN
Y	133+85.7	45.0' RT			697.37	D WARN
Z	133+91.7	37.6' RT		697.39	697.43	D WARN
AA	133+92.7	39.3' RT			697.46	D WARN
BB	133+95.4	43.5' RT			697.55	
CC	134+21.9	37.6' RT			698.59	
DD	134+21.9	42.6' RT			698.69	
EE	132+86.8	36.3' RT			697.05	D WARN
FF	132+84.0	40.4' RT			697.14	
GG	132+87.6	44.2' RT			697.20	
HH	132+79.1	39.6' RT			697.46	

COMPANY NAME: HRGreen  
 PROJECT CONTACT: HRGreen  
 CLIENT: HRGreen  
 FILE NAME: 86120384-ht-det-swr-mpa-06.dgn  
 PLOT DATE: 11/2/2015

HRGreen.com  
 Illinois Professional Design Firm  
 #104-091322

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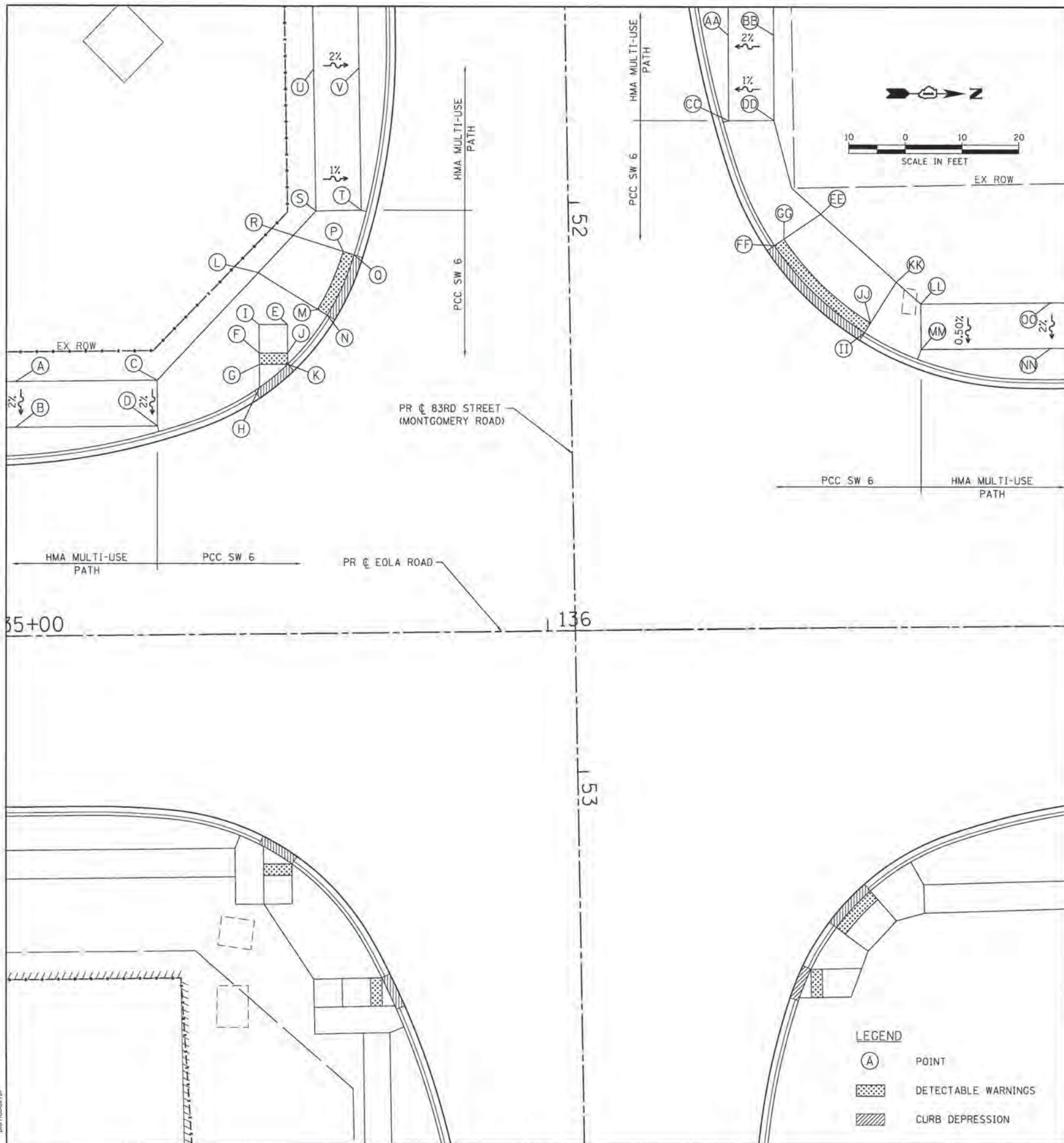
STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

SCALE: 1"=10' SHEET NO. 6 OF 9 SHEETS STA. TO STA.

SIDEWALK RAMP DETAILS

F.A.U. RTE. 2531	SECTION 10-00292-00-WR	COUNTY DUPAGE	TOTAL SHEETS 229	SHEET NO. 121
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		CONTRACT NO. 61C06





POINT DESCRIPTION EOLA ROAD						
POINT	STATION	OFFSET	TOP OF CURB WALL	GUTTER FLOWLINE	SIDEWALK, DRIVEWAY, OR RAMP	REMARK
A	135+06.4	44.6' LT			698.70	
B	135+06.4	36.6' LT			698.54	
C	135+31.4	44.6' LT			698.74	
D	135+31.4	36.6' LT			698.58	
E	135+54.5	54.2' LT			698.51	
F	135+49.5	49.2' LT			698.46	D WARN
G	135+49.5	47.2' LT			698.43	D WARN
H	135+49.5	43.2' LT		698.34	698.38	
I	135+49.5	54.2' LT			698.50	
J	135+54.5	49.2' LT			698.46	D WARN
K	135+54.5	47.2' LT		698.39	698.43	D WARN
L	135+49.5	63.4' LT			698.74	
M	135+59.9	56.8' LT			698.53	D WARN
N	135+61.6	55.8' LT		698.46	698.50	D WARN
O						OMITTED
P	135+64.5	66.9' LT			698.62	D WARN
Q	135+66.4	66.3' LT		698.55	698.59	D WARN
R	135+55.7	69.8' LT			698.78	
S	135+59.7	74.0' LT			699.08	
T	135+67.7	74.0' LT			699.00	
U	135+59.5	99.0' LT			699.21	
V	135+67.5	99.0' LT			699.05	
AA	136+32.7	104.3' LT			699.18	
BB	136+40.7	104.3' LT			699.34	
CC	136+32.7	89.3' LT			699.15	
DD	136+40.7	89.3' LT			699.23	
EE	136+43.7	77.4' LT			698.83	
FF	136+40.6	67.3' LT		698.62	698.66	D WARN
GG	136+42.2	67.1' LT			698.69	D WARN
HH						OMITTED
II	136+56.3	51.8' LT		698.73	698.77	D WARN
JJ	136+57.4	53.5' LT			698.80	D WARN
KK	136+62.0	60.7' LT			698.95	
LL	136+66.3	56.8' LT			699.24	
MM	136+66.3	48.8' LT			699.30	
NN	136+89.1	48.8' LT			699.31	
OO	136+89.1	56.8' LT			699.47	

COMPANY NAME: HRGreen  
 PROJECT CONTACT: HRGreen  
 CLIENT: HRGreen  
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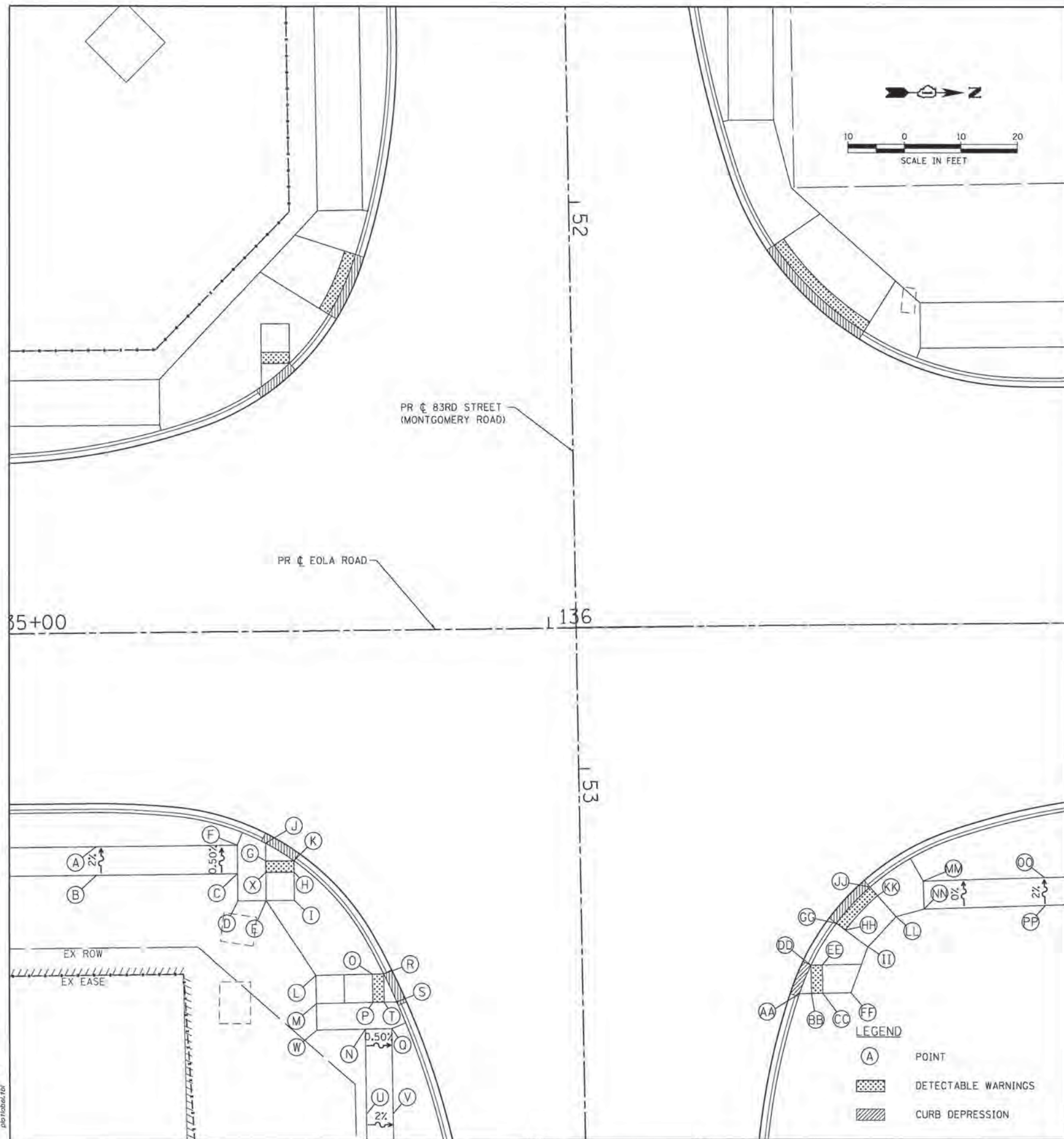
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STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

SCALE: 1"=10' SHEET NO. 7 OF 9 SHEETS STA. TO STA.

F.A.U. RTE. 2531	SECTION 10-00292-00-WR	COUNTY	TOTAL SHEETS 229	SHEET NO. 122
CONTRACT NO. 61C06				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				





POINT DESCRIPTION EOLA ROAD						
POINT	STATION	OFFSET	TOP OF CURB WALL	GUTTER FLOWLINE	SIDEWALK, DRIVEWAY, OR RAMP	REMARK
A	135+19.5	37.6' RT			698.65	
B	135+19.5	42.6' RT			698.75	
C	135+44.5	42.6' RT			698.82	
D	135+44.5	47.4' RT			698.84	
E	135+49.5	47.4' RT			698.60	
F	135+44.5	37.6' RT			698.80	
G	135+49.5	40.4' RT			698.48	D WARN
H	135+54.5	42.4' RT			698.49	D WARN
I	135+54.5	47.4' RT			698.52	
J	135+49.5	37.3' RT		698.39	698.43	
K	135+54.5	40.4' RT		698.42	698.46	D WARN
L	135+58.2	60.8' RT			698.77	
M	135+58.2	65.8' RT			698.85	
N	135+66.9	70.4' RT			698.97	
O	135+68.2	60.7' RT			698.59	D WARN
P	135+68.2	65.7' RT			698.67	D WARN
Q	135+71.5	70.4' RT			698.95	
R	135+70.2	60.7' RT		698.52	698.56	D WARN
S	135+72.4	65.7' RT		698.56	698.60	
T	135+70.2	65.7' RT			698.64	D WARN
U	135+66.9	85.4' RT			699.15	
V	135+71.6	85.4' RT			699.06	
W	135+58.3	70.4' RT			699.12	
X	135+49.5	42.4' RT			698.51	D WARN
AA	136+43.9	65.0' RT		698.52	698.56	
BB	136+46.0	65.0' RT			698.59	D WARN
CC	136+48.0	65.0' RT			698.62	D WARN
DD	136+45.9	60.0' RT		698.58	698.62	D WARN
EE	136+47.9	60.0' RT			698.65	D WARN
FF	136+53.0	65.0' RT			698.71	
GG	136+50.5	52.6' RT		698.72	698.76	D WARN
HH	136+52.1	53.9' RT			698.79	D WARN
II	136+56.1	56.9' RT			698.88	
JJ	136+56.5	46.3' RT		698.80	698.84	D WARN
KK	136+57.9	47.8' RT			698.87	D WARN
LL	136+61.1	51.6' RT			698.96	
MM	136+66.0	45.2' RT			699.35	
NN	136+66.0	50.2' RT			699.35	
OO	136+87.5	44.8' RT			699.59	
PP	136+87.6	49.8' RT			699.69	

COMPANY NAME: HRGreen  
 PROJECT CONTACT: HRGreen  
 CLIENT: HRGreen  
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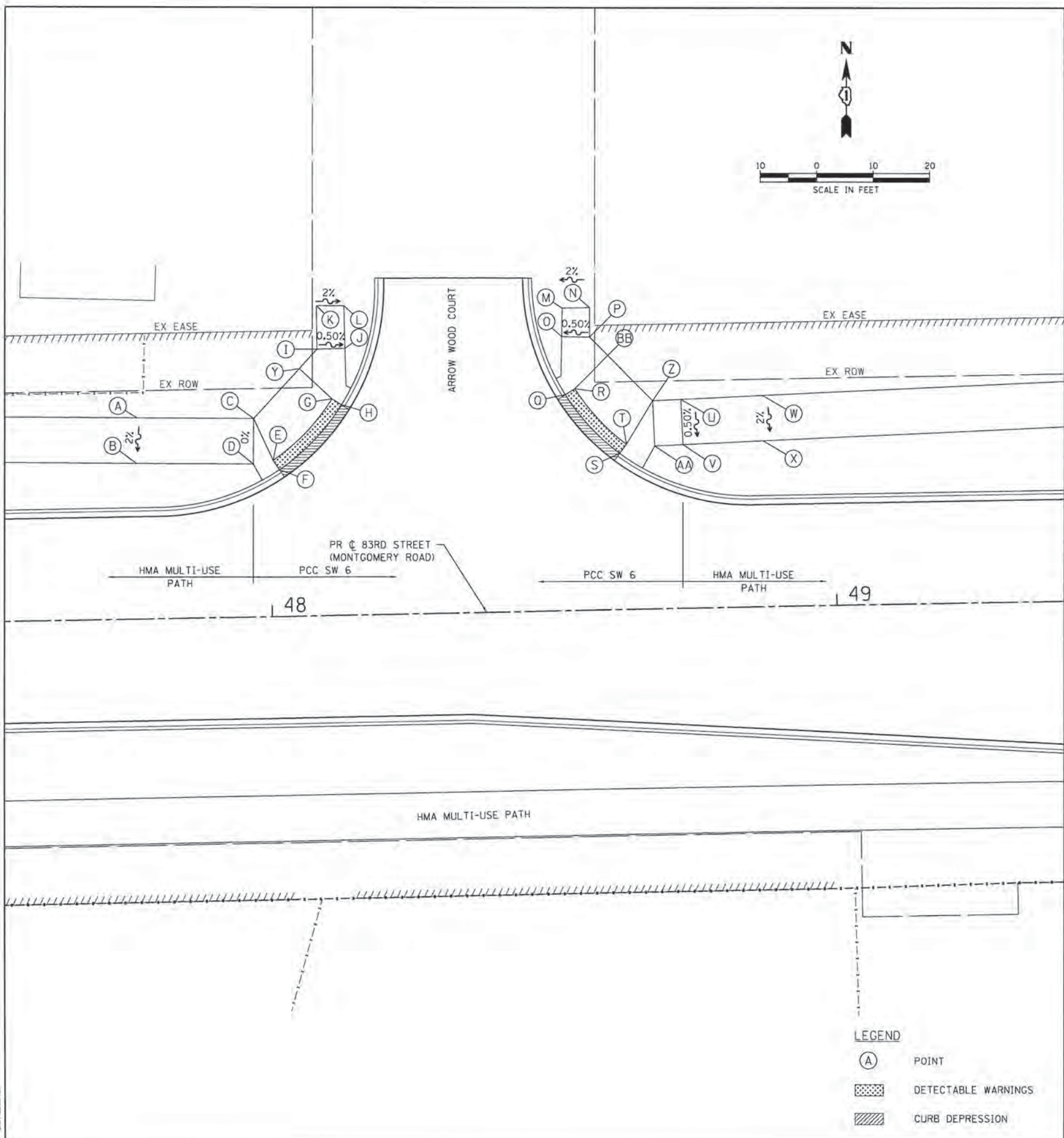
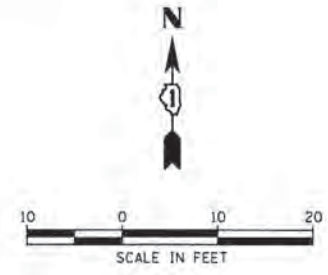
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STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

SCALE: 1"=10'    SHEET NO. 8 OF 9 SHEETS    STA. TO STA.

F.A.U. RTE. 2531	SECTION 10-00292-00-WR	COUNTY DUPAGE	TOTAL SHEETS 229	SHEET NO. 123
CONTRACT NO. 61C06				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				





POINT DESCRIPTION 83RD STREET						
POINT	STATION	OFFSET	TOP OF CURB WALL	GUTTER FLOWLINE	SIDEWALK, DRIVEWAY, OR RAMP	REMARK
A	47+76.6	35.4' LT			703.41	
B	47+76.4	27.4' LT			703.25	
C	47+97.3	34.9' LT			702.88	
D	47+97.1	26.9' LT			702.90	
E	48+00.6	27.5' LT			702.72	D WARN
F	48+01.7	25.8' LT		702.65	702.69	D WARN
G	48+11.2	38.1' LT			702.64	D WARN
H	48+12.9	37.0' LT		702.57	702.61	D WARN
I	48+08.7	46.9' LT			703.02	
J	48+13.7	46.9' LT			703.00	
K	48+08.8	54.5' LT			703.02	MEET EX
L	48+13.6	54.4' LT			702.92	MEET EX
M	48+52.3	53.3' LT			702.82	MEET EX
N	48+57.1	53.3' LT			702.92	MEET EX
O	48+52.1	48.2' LT			702.75	
P	48+57.0	48.1' LT			702.77	
Q	48+52.5	38.0' LT		702.25	702.29	D WARN
R	48+54.3	39.1' LT			702.32	D WARN
S	48+62.0	27.5' LT		701.99	702.03	D WARN
T	48+63.2	29.1' LT			702.06	D WARN
U	48+73.0	36.8' LT			702.39	
V	48+73.2	28.8' LT			702.35	
W	48+87.5	37.2' LT			702.16	
X	48+87.4	29.2' LT			702.00	
Y	48+05.5	43.5' LT			702.78	
Z	48+68.0	36.7' LT			702.22	
AA	48+68.2	28.7' LT			702.18	
BB	48+60.2	44.8' LT			702.46	

LEGEND

- (A) POINT
- [Patterned Box] DETECTABLE WARNINGS
- [Hatched Box] CURB DEPRESSION

COMPANY NAME: HRGreen  
 PROJECT CONTACT: HRGreen  
 CLIENT: HRGreen  
 DATE PLOTTED: 11/2/2015 9:46:09 AM  
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PLOT DATE = 11/2/2015	DATE - 11/2/15	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SIDEWALK RAMP DETAILS

SCALE: 1"=10' SHEET NO. 9 OF 9 SHEETS STA. TO STA.

F.A.J. RTE. 2531	SECTION 10-00292-00-WR	COUNTY DUPAGE	TOTAL SHEETS 229	SHEET NO. 124
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 61C06	

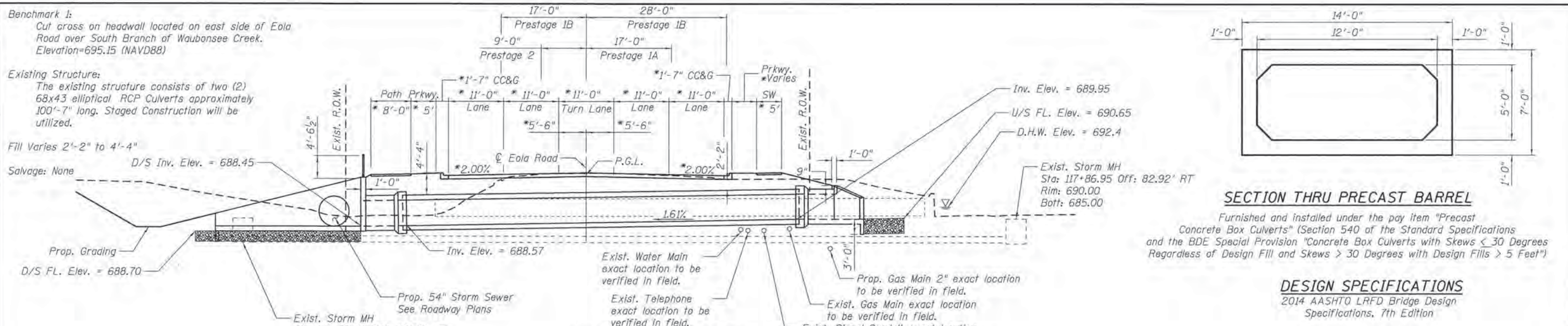


Benchmark 1:  
Cut cross on headwall located on east side of Eola Road over South Branch of Waubensee Creek.  
Elevation=695.15 (NAVD88)

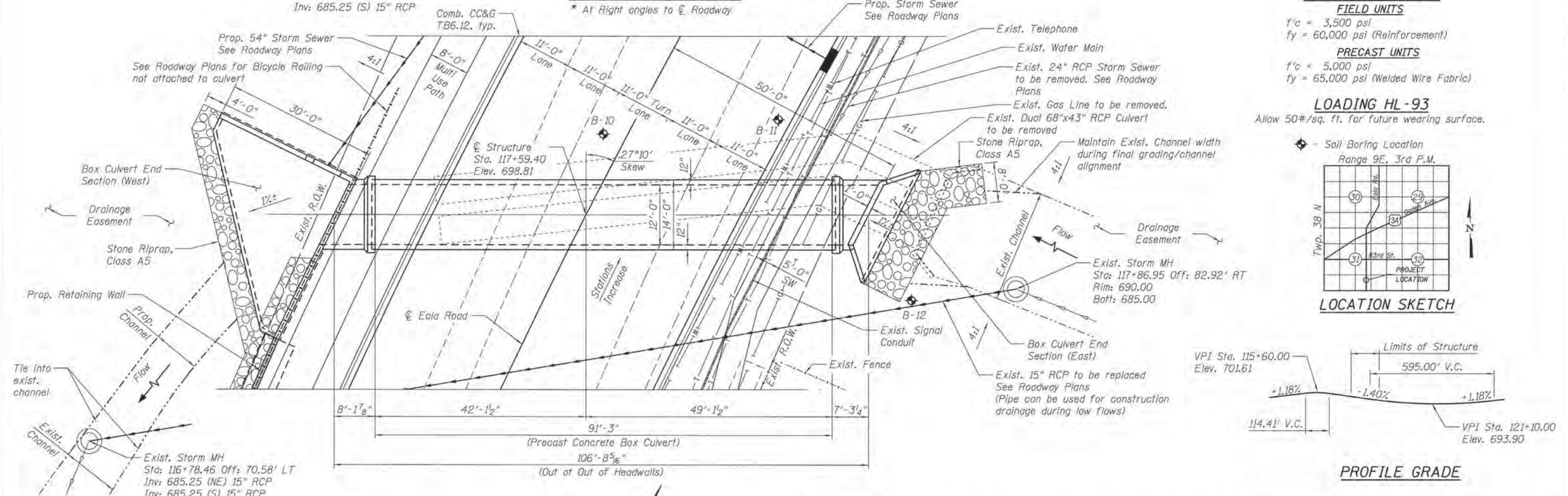
Existing Structure:  
The existing structure consists of two (2) 68x43 elliptical RCP Culverts approximately 100'-7" long. Staged Construction will be utilized.

Fill Varies 2'-2" to 4'-4"  
D/S Inv. Elev. = 688.45

Salvage: None



**LONGITUDINAL SECTION**  
\* At Right angles to E Roadway



**WATERWAY INFORMATION**

Drainage Area = 1.21 Sq. mi. Low Grade Elev. 698.00 @ Sta. 118+35

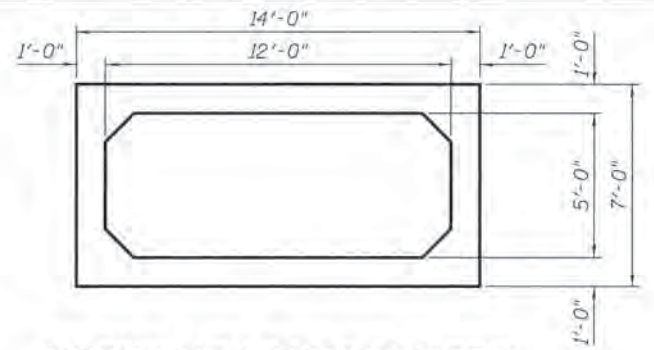
Flood	Freq. Yr.	Q C.F.S.	Opening Sq. Ft.		Nat. H.W.E.	Head - Ft.		Headwater El.	
			Exist.	Prop.		Exist.	Prop.	Exist.	Prop.
Design	10	48	13	25	692.2	0.3	0.0	692.5	692.2
	30	60	16	27	692.4	0.3	0.0	692.7	692.4
	50	65	17	28	692.5	0.4	0.0	692.9	692.5
Base	100	71	18	29	692.6	0.4	0.0	693.0	692.6
Max. Calc.	500	85	20	32	692.8	0.4	0.0	693.2	692.8

**CURVE DATA**

PI STA. = 118+91.35  
 $\Delta = 19^\circ 41' 38''$  (RT)  
 $D = 4^\circ 29' 38''$   
 $R = 1,275.00'$   
 $T = 221.31'$   
 $L = 438.24'$   
 $E = 19.06'$   
P.C. STA. = 116+70.05  
P.T. STA. = 121+08.29  
S.E. = None

To the best of my knowledge, information and belief, this culvert design is structurally adequate for the design loading shown on the plans. The design is an economical one for the style of structure and complies with the requirements of the current "AASHTO LRFD Bridge Design Specification".

Structural Engineer Expires: 11/30/2016  
HRGreen



**SECTION THRU PRECAST BARREL**

Furnished and installed under the pay item "Precast Concrete Box Culverts" (Section 540 of the Standard Specifications and the BDE Special Provision "Concrete Box Culverts with Skews < 30 Degrees Regardless of Design Fill and Skews > 30 Degrees with Design Fills > 5 Feet")

**DESIGN SPECIFICATIONS**

2014 AASHTO LRFD Bridge Design Specifications, 7th Edition

**DESIGN STRESSES**

**FIELD UNITS**

$f'_c = 3,500$  psi  
 $f_y = 60,000$  psi (Reinforcement)

**PRECAST UNITS**

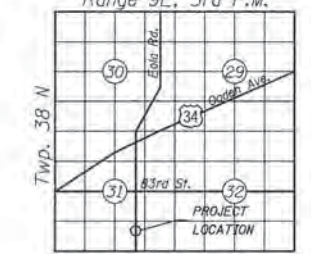
$f'_c = 5,000$  psi  
 $f_y = 65,000$  psi (Welded Wire Fabric)

**LOADING HL-93**

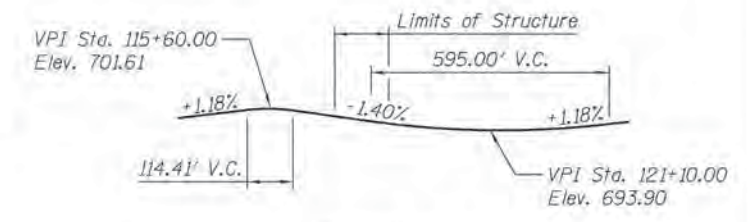
Allow 50#/sq. ft. for future wearing surface.

**Soil Boring Location**

Range 9E, 3rd P.M.



**LOCATION SKETCH**



**PROFILE GRADE**

**GENERAL PLAN AND ELEVATION**  
**EOLA ROAD OVER SOUTH BRANCH**  
**OF WAUBANSEE CREEK**

**SECTION NO. 10-00292-00-WR**  
**F.A.U. RTE 2531**  
**DUPAGE COUNTY**

**STA. 117+59.40**

COMPANY NAME: HRGreen.com  
PROJECT CONTACT: dstanca  
CLIENT: ILLINOIS DEPARTMENT OF TRANSPORTATION  
DATE PLOTTED: 10/29/2015 2:02 PM  
FILE NAME: 10-00292-00-WR-01.dgn  
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PLOT DATE = 10/29/2015	DRAWN - WJH	REVISED -
	CHECKED - 10/29/15	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2531	10-00292-00-WR	DUPAGE	229	225
CONTRACT NO. 61C06			ILLINOIS FED. AID PROJECT	



**GENERAL NOTES**

1. PRECAST CONCRETE BOX CULVERTS 12'x5' (Special) shall conform to the requirements of Article 540.06 of the Standard Specifications, the Special Provisions and the applicable requirements of ASTM C1577.

Excavation and backfill required for bedding and placement of the PRECAST CONCRETE BOX CULVERTS 12'x5' (Special) shall be in accordance with Article 540.06, the details in the plans and the Special Provisions. Cost included in PRECAST CONCRETE BOX CULVERTS 12'x5' (Special). If additional excavation and backfill is required under the bedding for the proposed box culvert due to unsuitable soils (as determined by the engineer), this shall be paid at the contract unit price for REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL, and POROUS GRANULAR BACKFILL, respectively (See Sheet 3 of the Roadway Plans for General Notes regarding additional quantities that may be deducted if not needed). The cost for POROUS GRANULAR MATERIAL backfill and bedding under the PRECAST CONCRETE BOX CULVERT, 12'x5' (Special) is included in the cost of PRECAST CONCRETE BOX CULVERTS 12'x5' (Special).

The minimum precast concrete strength shall be 5,000 psi.

Lifting holes shall be filled with concrete plugs and mastic after box sections are in place.

Fill varies 2'-2" to 4'-4"

2. Box Culvert End Sections shall be paid for as noted in Article 540.08, and the Contract Unit Price for Box Culvert End Sections shall include all porous granular bedding material, cast in place wingwalls, headwalls, aprons, reinforcement, excavation, backfill and formliner textured surface. Bill of Materials provided for Contractor's convenience only.

3. Contractor shall maintain streamflow in accordance with the Standard Specifications Article 502.

4. Layout of the slope protection system may be varied to suit ground conditions in the field as directed by the Engineer.

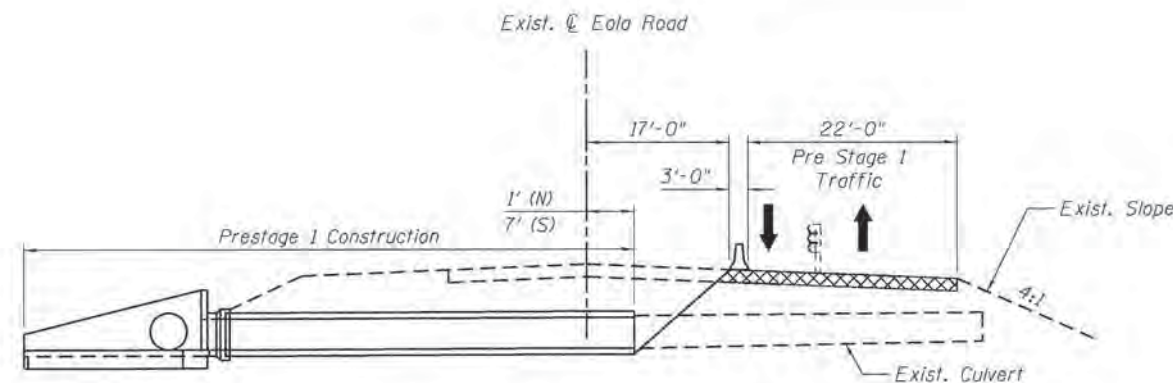
5. Reinforcement bars designated (E) shall be epoxy coated

6. REMOVAL OF EXISTING STRUCTURES includes the removal of the two existing 68"x43" elliptical RCP culverts (total length of approximately 196') as well as the concrete end section on the east side.

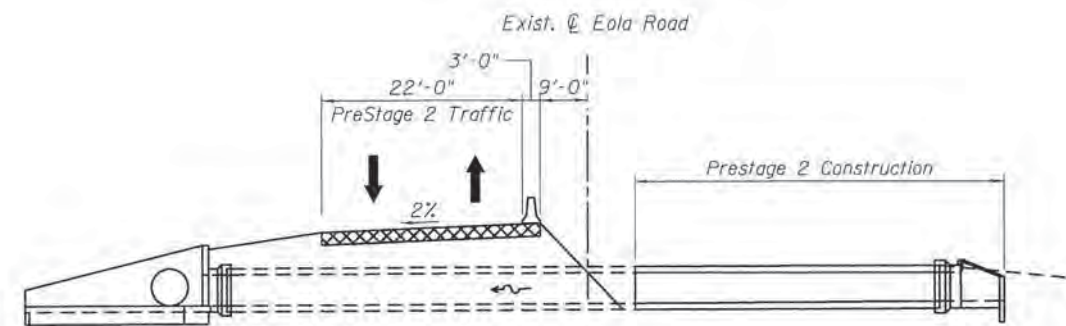
7. Formliner Textured Surface shall be applied to east wall of west culvert end section. Formliner shall be the same as the retaining walls and shall match the Noise Abatement Walls, Ground Mounted. See the Noise Abatement Wall Special Provisions for pattern

**INDEX OF SHEETS**

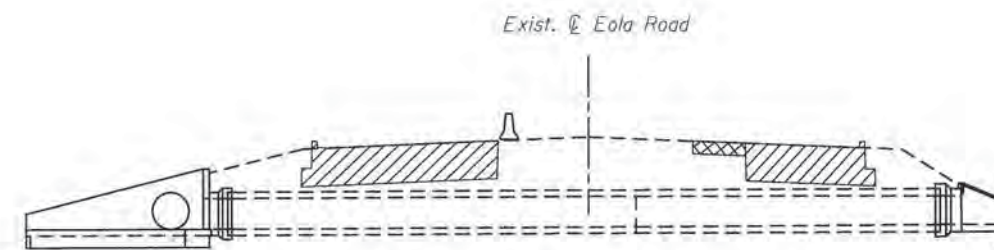
C-1	General Plan and Elevation
C-2	General Notes
C-3	Box Culvert End Section (West) Details
C-4	Box Culvert End Section (West) Details
C-5	Box Culvert End Section (West) Details
C-6	Box Culvert End Section (West) Details
C-7	Box Culvert End Section (East) Details
C-8	Box Culvert End Section (East) Details
C-9	Box Culvert End Section (East) Details
C-10	Bicycle Railing
C-11	Soil Boring Logs



**EOLA ROAD PRESTAGE 1**

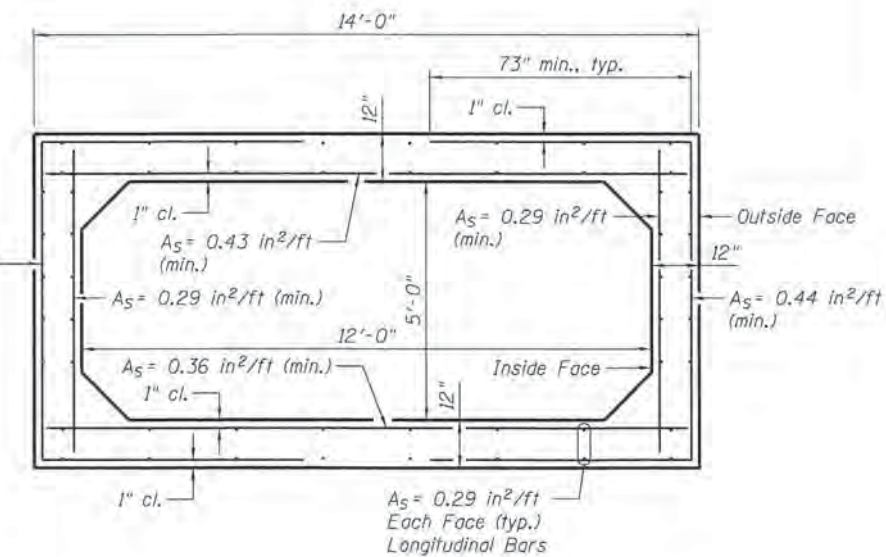


**EOLA ROAD PRESTAGE 2**

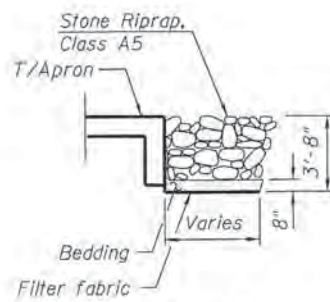


**EOLA ROAD END OF PRESTAGE**

See Suggested Staging of Construction & Traffic Control Typical Sections-Stage 1 in Roadway Plans



**SECTION THROUGH PRECAST CONCRETE BOX CULVERT 12'x5' (SPECIAL)**



**RIPRAP DETAIL**

**LEGEND**

	Type II Barricades with Bi-directional steady burning light 50' c-c on tangent, 20' c-c on tapers and 12' on radii
	Temporary Pavement

**TOTAL BILL OF MATERIAL**

ITEM	UNIT	TOTAL
STONE RIPRAP, CLASS A5	SQ YD	63
FILTER FABRIC	SQ YD	54
REMOVAL OF EXISTING STRUCTURES	EACH	1
BICYCLE RAILING	FOOT	36
BOX CULVERT END SECTIONS, CULVERT NO. 1	EACH	2
GEOCOMPOSITE WALL DRAIN	SQ YD	22
PRECAST CONCRETE BOX CULVERTS 12' X 5' (SPECIAL)	FOOT	93

COMPANY NAME: HRGreen.com  
PROJECT CONTRACT: 10-00292-00-WR  
DATE PLOTTED: 10/30/2015 10:25:58 AM  
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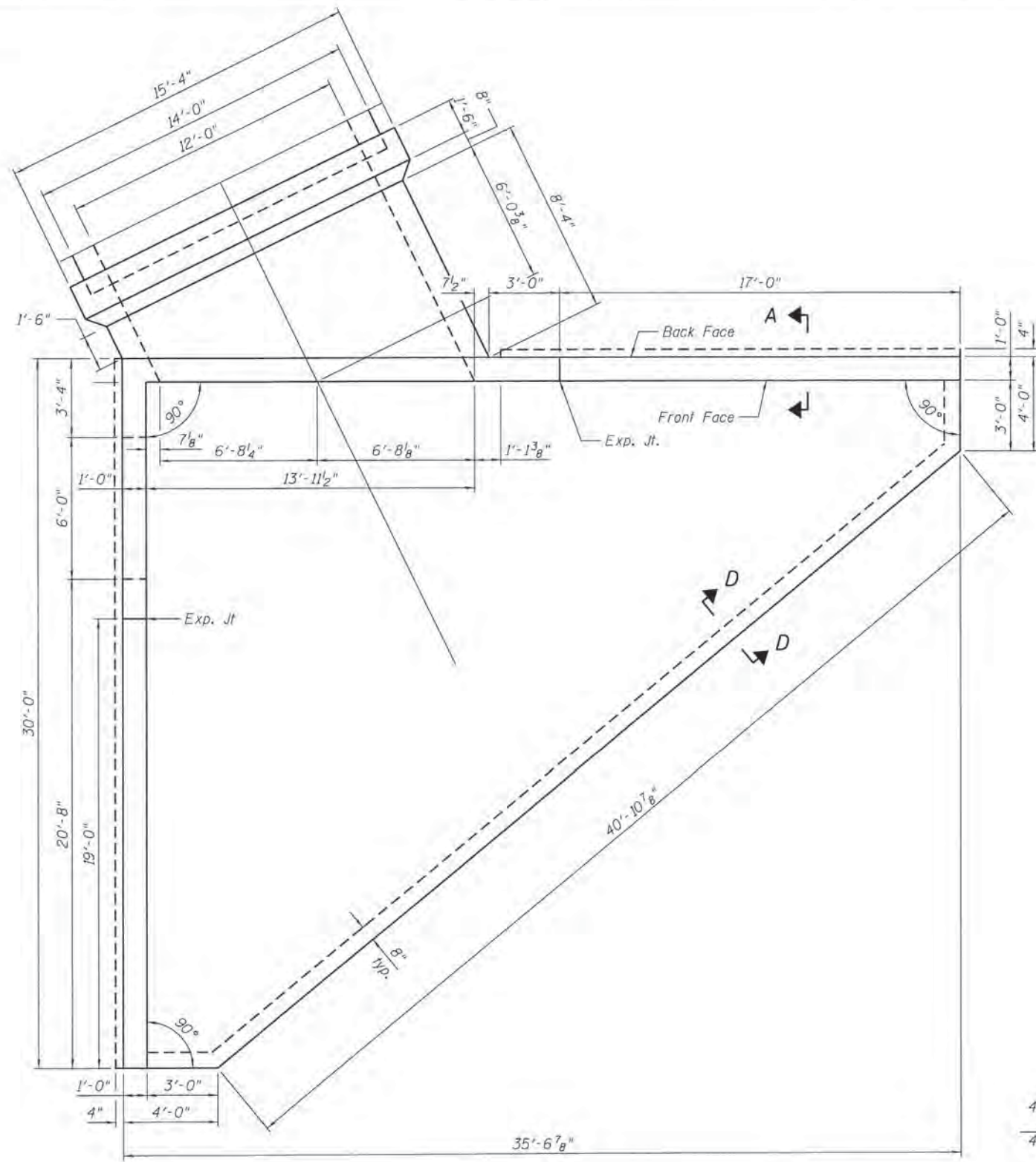
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STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

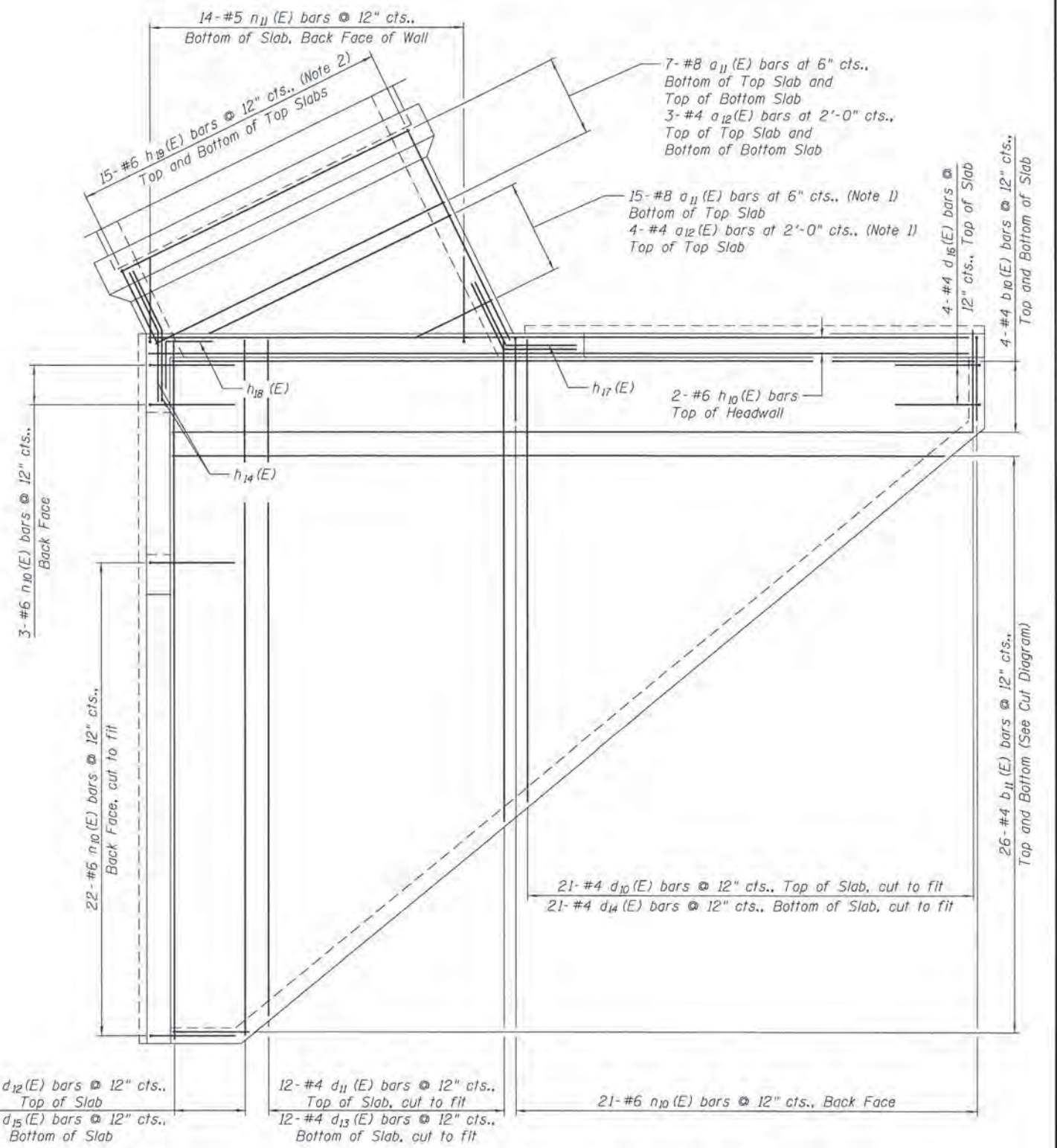
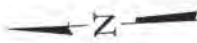
GENERAL NOTES  
PRECAST BOX CULVERT  
SHEET NO. C-2 OF C-11 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2531	10-00292-00-WR	DUPAGE	229	126
CONTRACT NO. 61C06				
ILLINOIS FED. AID PROJECT				





PLAN



END SECTION  
REBAR LAYOUT

- Note 1:  $a_{11}(E)$  and  $a_{12}(E)$  bars in skewed portion of Top slab shall be ordered full length and cut to fit. Balance of bars shall be used in opposite faces of Bottom slab.
- Note 2:  $h_{19}(E)$  bars in Top slab shall be ordered full length and cut to fit. Balance of bars shall be used in Bottom slab.

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 PROJECT CONTACT: [Name]  
 CLIENT: [Name]  
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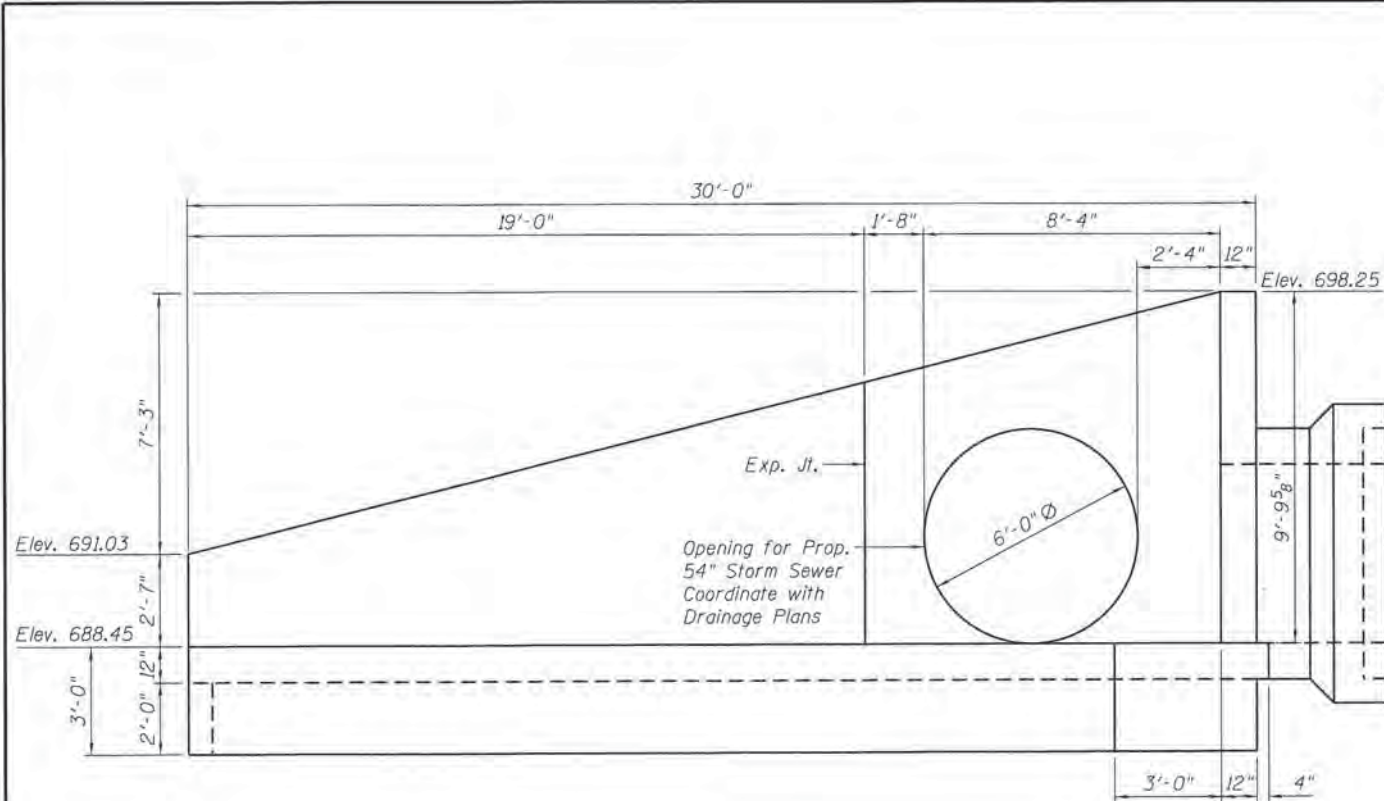
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STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

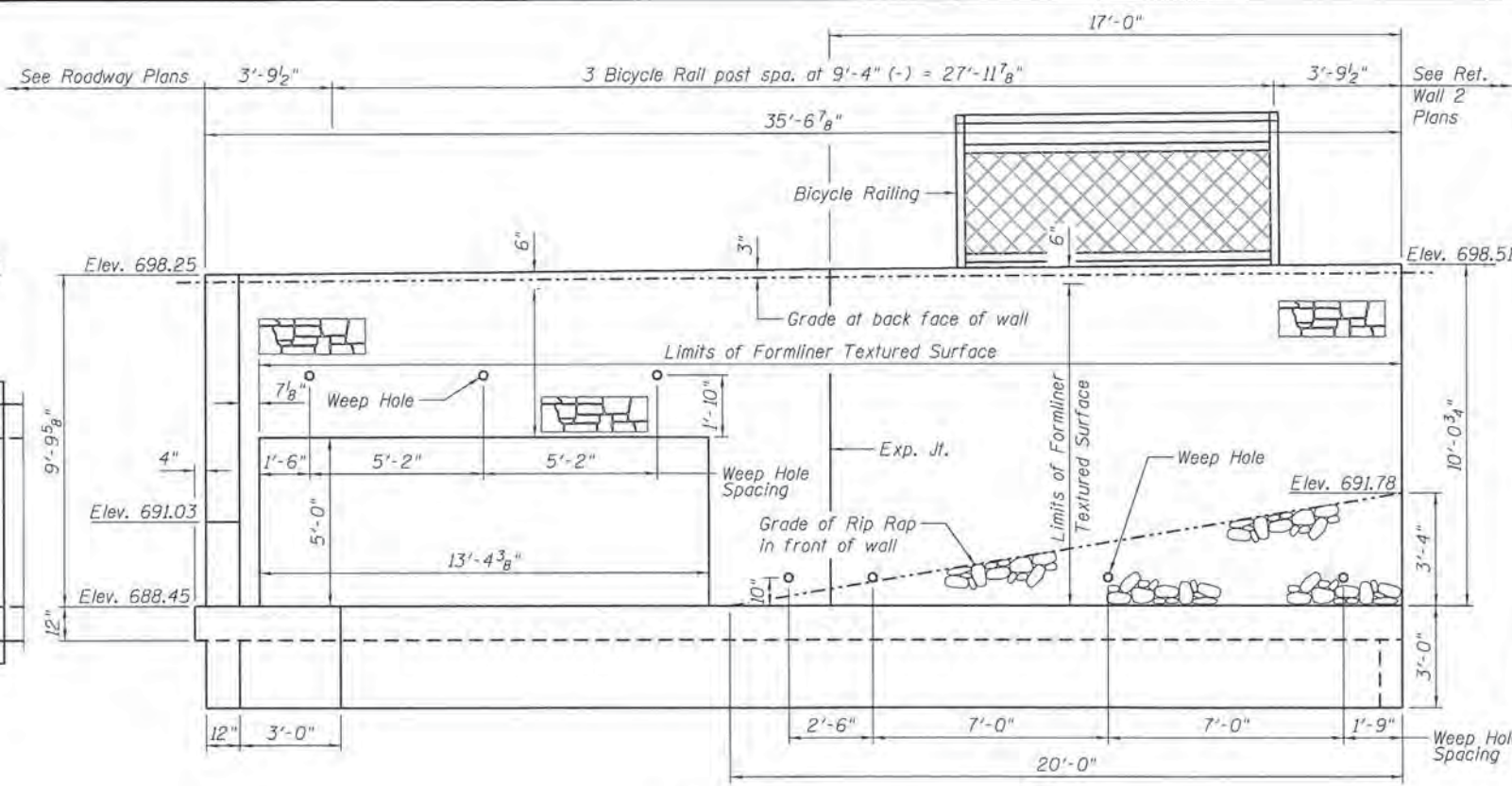
BOX CULVERT END SECTION (WEST) DETAILS  
EOLA ROAD  
SHEET NO. C-3 OF C-11 SHEETS

F.A.U. RT#	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2531	10-00292-00-WR	DUPAGE	229	127
				CONTRACT NO. 61C06
ILLINOIS FED. AID PROJECT				

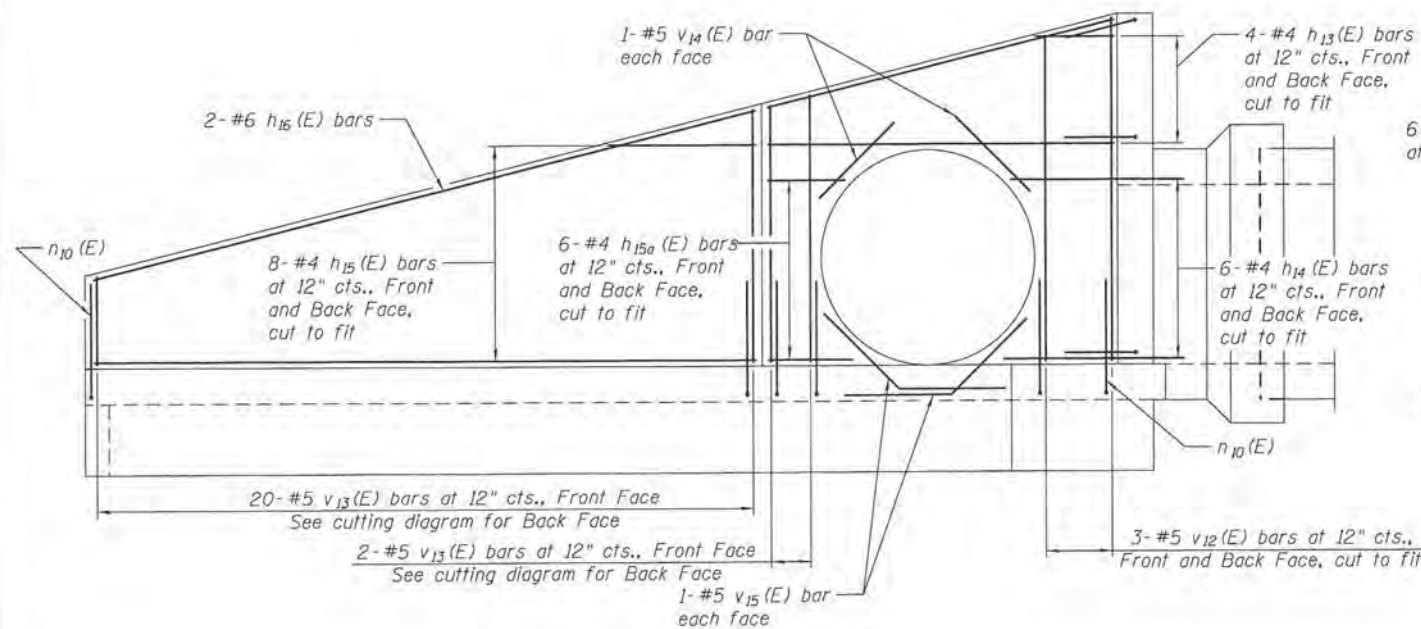




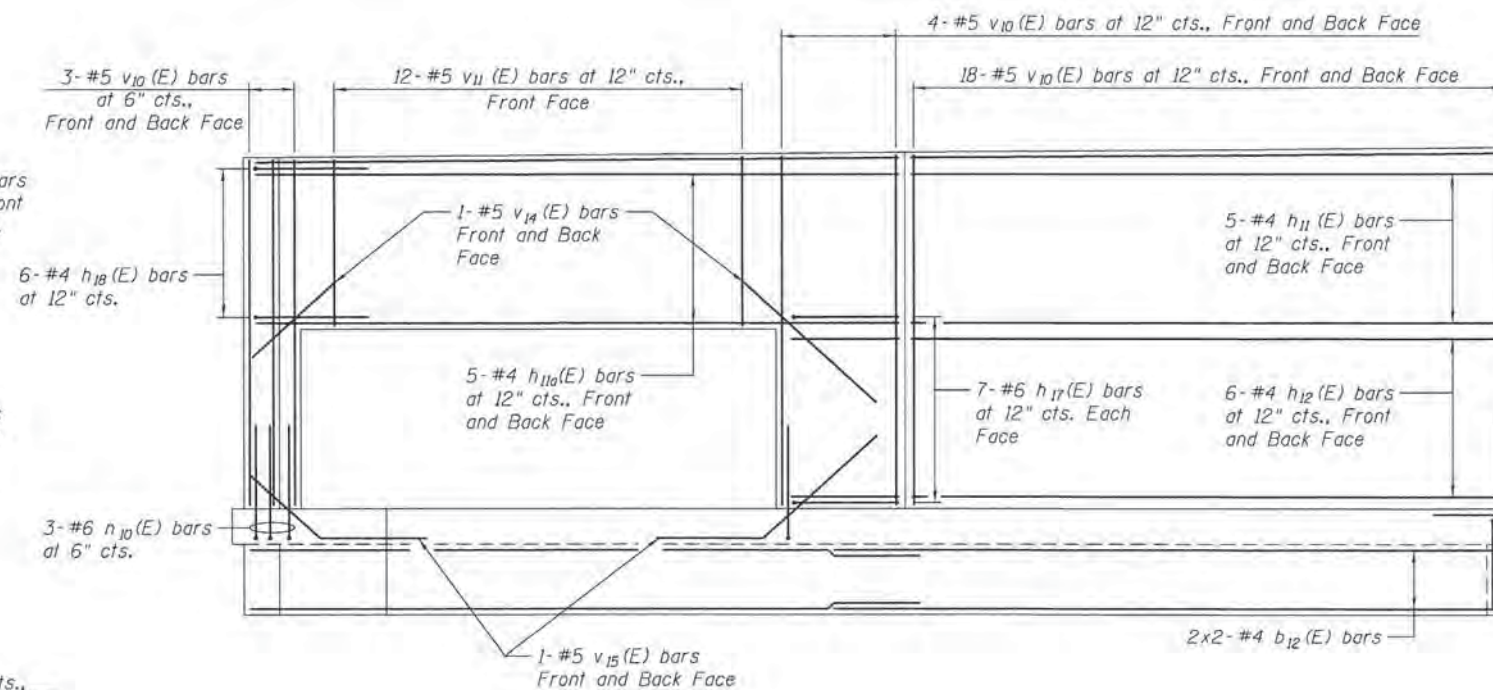
**NORTH WALL ELEVATION**  
(Looking North)



**EAST WALL ELEVATION**  
(Looking East)



**NORTH WALL ELEVATION**  
**REBAR LAYOUT**



**EAST WALL ELEVATION**  
**REBAR LAYOUT**

COMPANY NAME: HRGreen  
 PROJECT CONTACT: HRGreen  
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STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

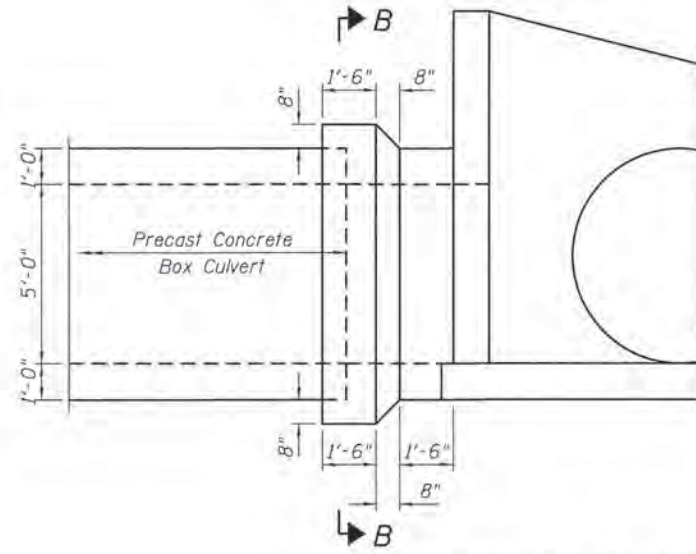
BOX CULVERT END SECTION (WEST) DETAILS  
EOLA ROAD

SHEET NO. C-4 OF C-11 SHEETS

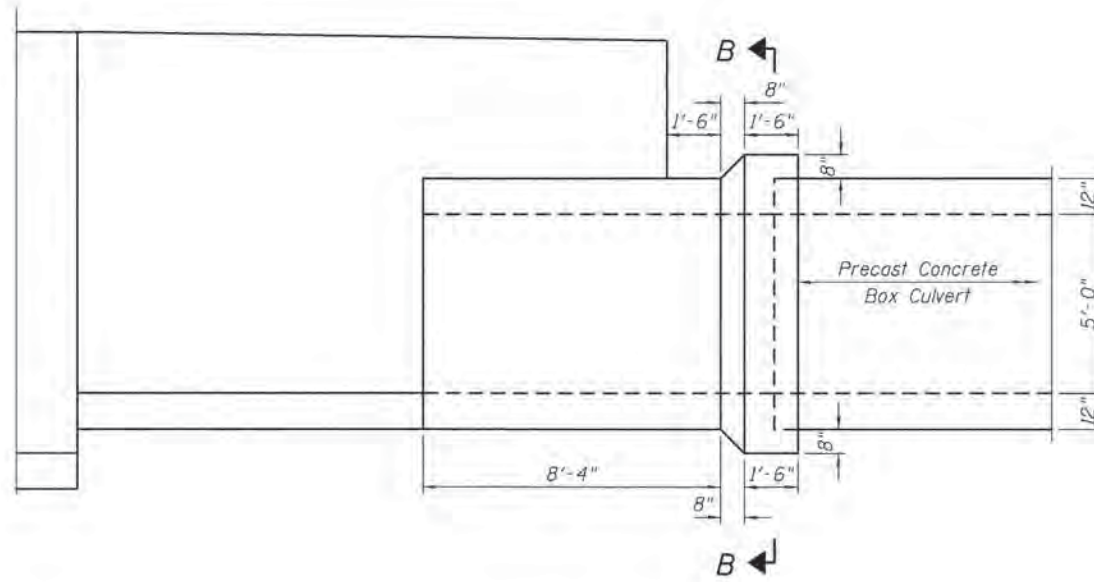
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2531	10-00292-00-WR	DUPAGE	229	128
CONTRACT NO. 61C06				

ILLINOIS FED. AID PROJECT

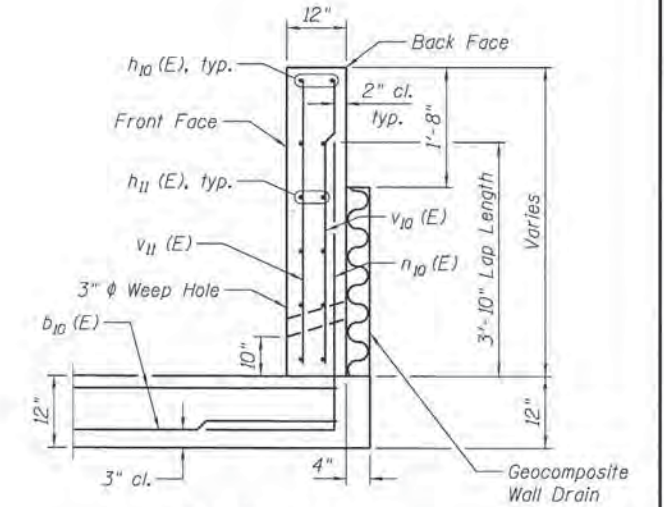




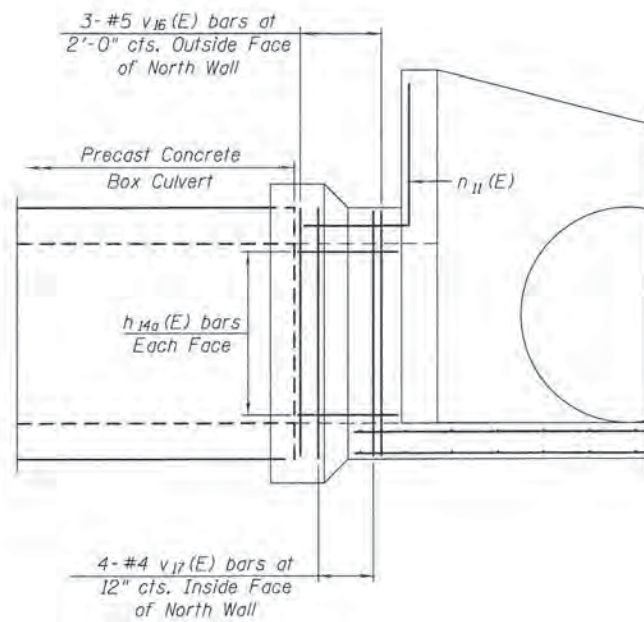
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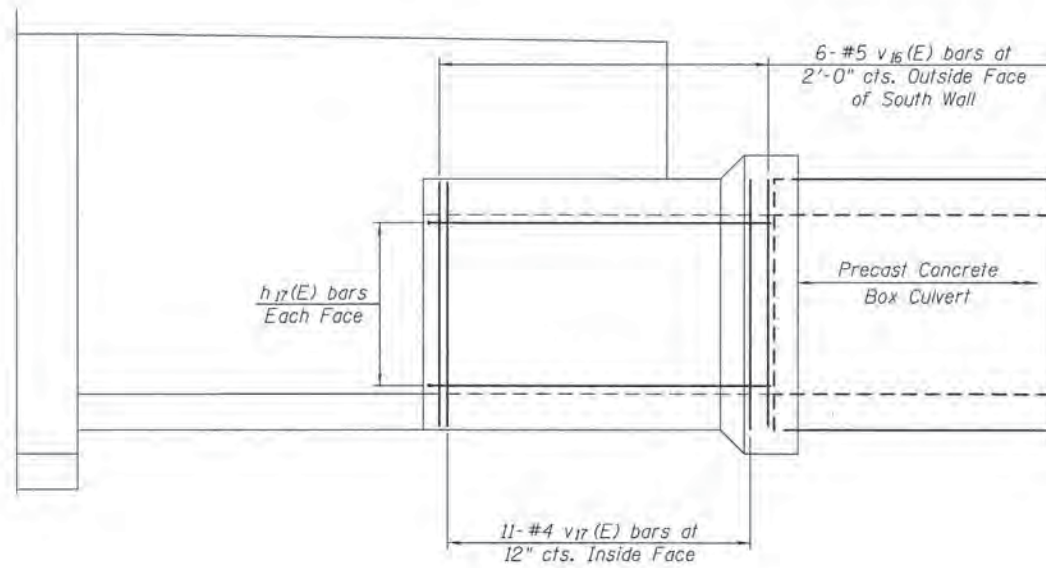
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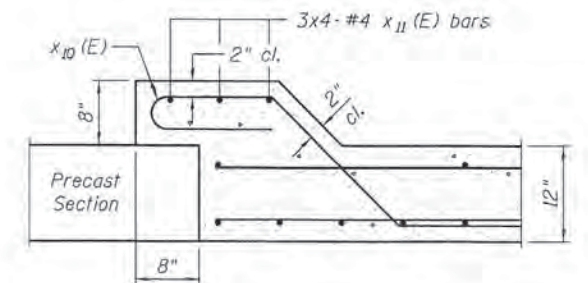
**SECTION A-A**



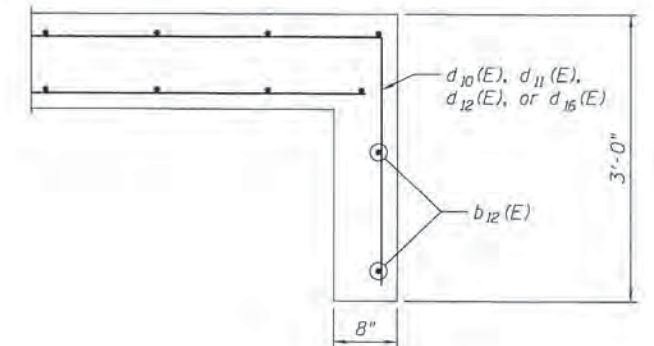
**END SECTION ELEVATION SHOWING REBAR**  
(Looking South)



**END SECTION ELEVATION SHOWING REBAR**  
(Looking West)



**SECTION C-C**



**SECTION D-D**

COMPANY NAME: HRGreen  
 PROJECT CONTACT: #PROJECT CONTACT#  
 CLIENT: #CLIENT#  
 DATE PLOTTED: 10/30/2015 10:35:05 AM  
 FILE NAME: 86100384-sh1-51-EndSection-04.dgn  
 PLOT DRIVER: It\_caf\_bw.plt  
 PEN TABLE: plot.tbl



USER NAME = dstanoz	DESIGNED = SEC	REVISED =
PLLOT SCALE = N.T.S.	CHECKED = RGD	REVISED =
PLLOT DATE = 10/30/2015	DRAWN = WJH	REVISED =
	CHECKED = 10/30/2015	REVISED =

DESIGNED = SEC	REVISED =
CHECKED = RGD	REVISED =
DRAWN = WJH	REVISED =
CHECKED = 10/30/2015	REVISED =

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

BOX CULVERT END SECTION (WEST) DETAILS  
EOLA ROAD

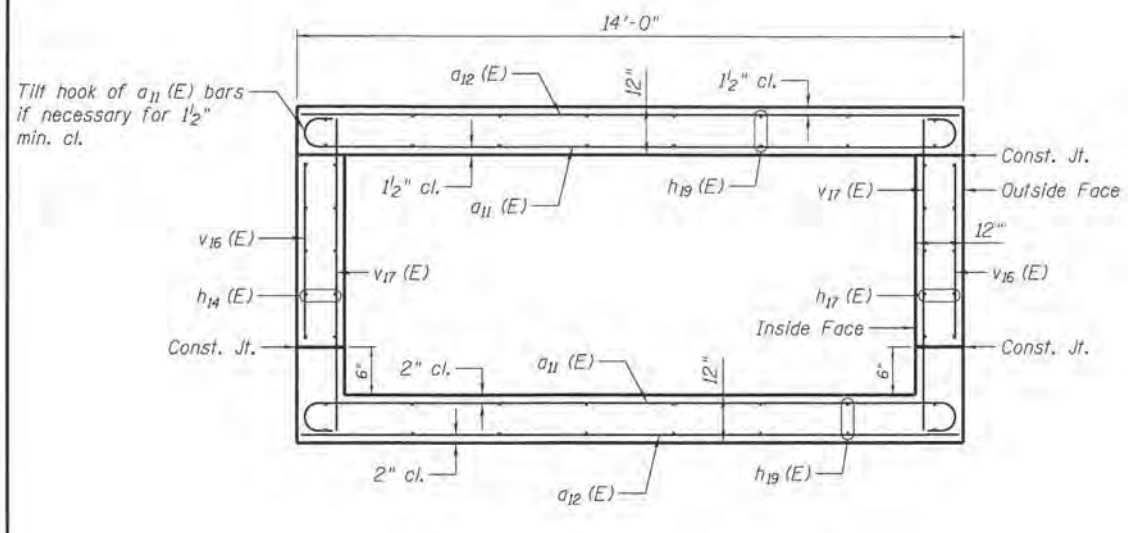
SHEET NO. C-5 OF C-11 SHEETS

F.A.U. RTE. 2531	SECTION 10-00292-00-WR	COUNTY DUPAGE	TOTAL SHEETS 229	SHEET NO. 129
				CONTRACT NO. 61C06
ILLINOIS FED. AID PROJECT				

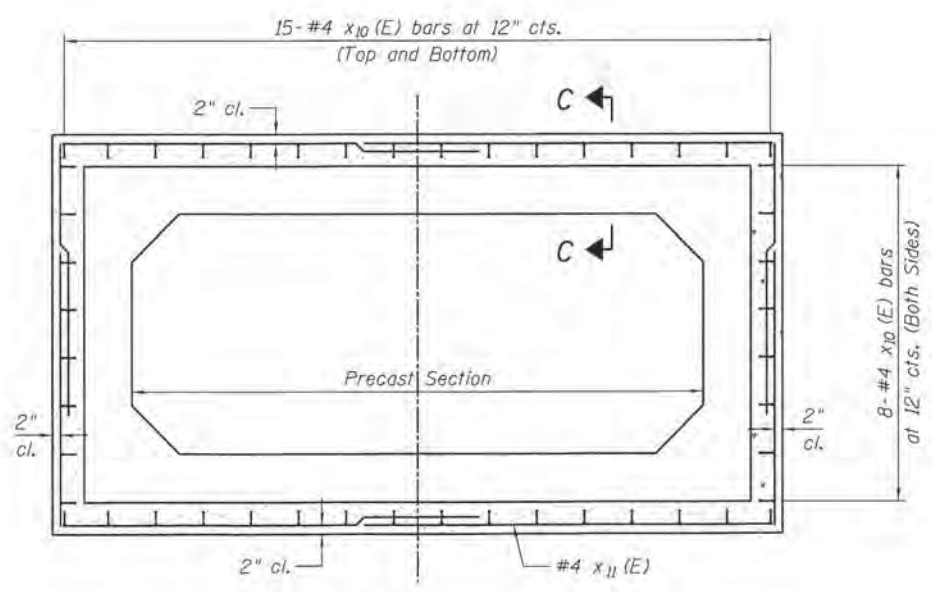


**BILL OF MATERIALS**  
**BOX CULVERT END SECTION (WEST)**  
See Note 2 on Sheet C-2

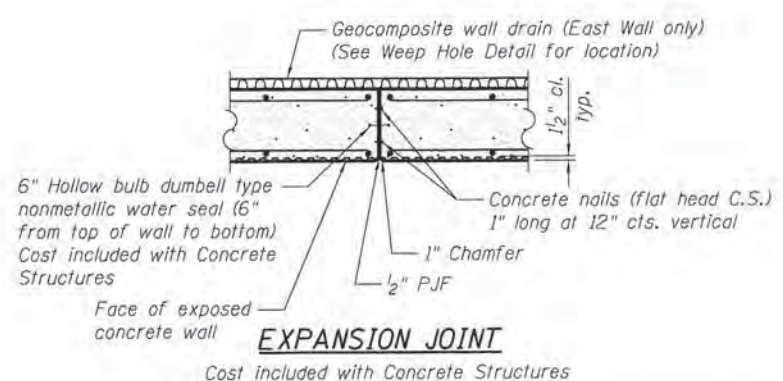
Bar	No.	Size	Length	Shape
a <sub>11</sub> (E)	29	#8	15'-6"	U
a <sub>12</sub> (E)	10	#4	13'-6"	—
b <sub>10</sub> (E)	8	#4	35'-6"	—
b <sub>11</sub> (E)	26	#4	37'-9"	—
b <sub>12</sub> (E)	4	#4	25'-5"	—
d <sub>10</sub> (E)	21	#4	27'-5"	L
d <sub>11</sub> (E)	12	#4	31'-5"	L
d <sub>12</sub> (E)	4	#4	32'-5"	L
d <sub>13</sub> (E)	12	#4	28'-9"	—
d <sub>14</sub> (E)	21	#4	24'-9"	—
d <sub>15</sub> (E)	4	#4	29'-9"	—
d <sub>16</sub> (E)	4	#4	5'-8"	L
h <sub>10</sub> (E)	2	#6	35'-9"	—
h <sub>11</sub> (E)	10	#4	16'-8"	—
h <sub>12</sub> (E)	10	#4	18'-9"	—
h <sub>13</sub> (E)	12	#4	16'-8"	—
h <sub>14</sub> (E)	8	#4	10'-8"	—
h <sub>15</sub> (E)	12	#4	6'-2"	L
h <sub>16</sub> (E)	16	#4	18'-8"	—
h <sub>17</sub> (E)	12	#4	4'-0"	—
h <sub>18</sub> (E)	2	#6	29'-7"	—
h <sub>19</sub> (E)	14	#4	12'-6"	L
h <sub>20</sub> (E)	6	#4	4'-0"	L
h <sub>21</sub> (E)	30	#6	12'-6"	—
n <sub>10</sub> (E)	51	#6	5'-9"	L
n <sub>11</sub> (E)	14	#5	7'-9"	L
v <sub>10</sub> (E)	48	#5	9'-8"	—
v <sub>11</sub> (E)	12	#5	4'-7"	—
v <sub>12</sub> (E)	6	#5	9'-4"	—
v <sub>13</sub> (E)	22	#5	9'-6"	—
v <sub>14</sub> (E)	8	#5	5'-0"	—
v <sub>15</sub> (E)	8	#5	6'-0"	—
v <sub>16</sub> (E)	9	#5	4'-2"	—
v <sub>17</sub> (E)	15	#4	6'-8"	—
x <sub>10</sub> (E)	46	#4	7'-4"	L
x <sub>11</sub> (E)	12	#4	14'-8"	L
Box Culvert End Sections, Culvert No. 1			Each	1
Reinforcement Bars, Epoxy Coated (Cost Included Under Box Culvert End Sections, Culvert No. 1)			Pound	7,110
Concrete (Cost Included Under Box Culvert End Sections, Culvert No. 1)			Cu. Yd.	53
Form Liner Textured Surface (Cost Included Under Box Culvert End Sections, Culvert No. 1)			Sq. Ft.	268
Geocomposite Wall Drain			Sq. Yd.	22



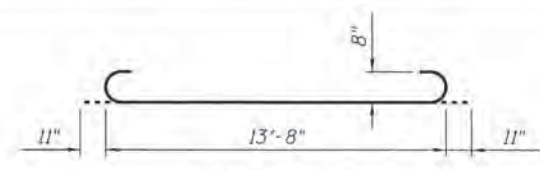
**SECTION THRU END SECTION**  
**BARREL EXTENSION**  
Looking Upstream



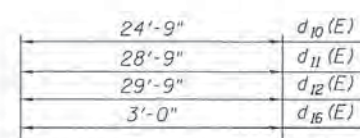
**SECTION B-B**



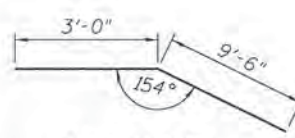
**EXPANSION JOINT**



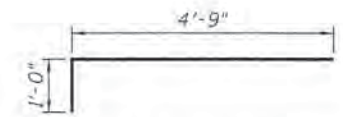
**BAR a<sub>11</sub>(E)**



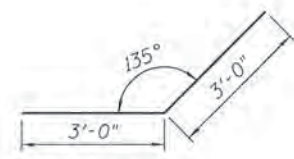
**BAR d<sub>10</sub>(E), d<sub>11</sub>(E),**  
**d<sub>12</sub>(E) & d<sub>16</sub>(E)**



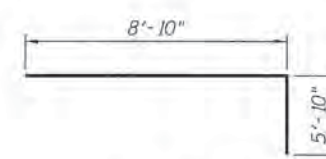
**BAR h<sub>17</sub>(E)**



**BAR n<sub>10</sub>(E)**



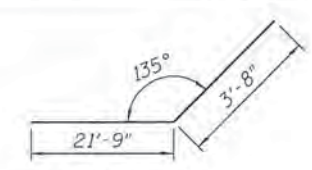
**BAR v<sub>15</sub>(E)**



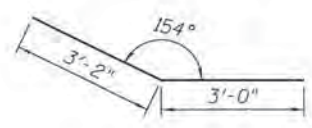
**BAR x<sub>11</sub>(E)**

**MINIMUM BAR LAP**

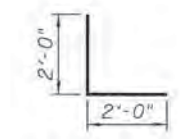
- #4 bar = 2'-7"
- #5 bar = 3'-3"
- #6 bar = 3'-10"



**BAR b<sub>12</sub>(E)**



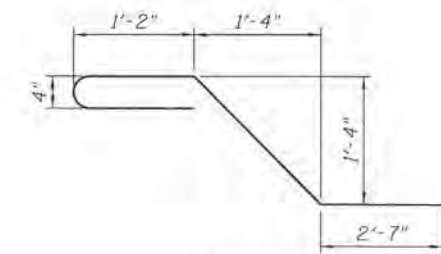
**BAR h<sub>14</sub>(E)**



**BAR h<sub>18</sub>(E)**



**BAR n<sub>11</sub>(E)**



**BAR x<sub>10</sub>(E)**



**FIELD CUTTING DIAGRAM**

\* Order b<sub>11</sub>(E) and v<sub>13</sub>(E) bars full length. Cut to fit as shown to fit slope and use remainder of bars in opposite face of wall or slab.

**NOTES**

1. Bars indicated thus 12 x 4-#5 etc. indicates 12 lines of bars with 4 lengths per line.

COMPANY NAME: HRGreen  
PROJECT CONTACT: HRGreen  
CLIENT: 10/30/2015/10:31:07 AM  
DATE PLOTTED: 10/30/2015/10:31:07 AM  
FILE NAME: I:\\_proj\hr\c1c6\c1c6.dgn  
PLOT DRIVER: plotttbl  
PEN TABLE:

**HRGreen**  
Illinois Professional Design Firm  
#184-001322

USER NAME: t.danacz	DESIGNED: SEC	REVISED:
PLLOT SCALE: N.T.S.	CHECKED: RGD	REVISED:
PLLOT DATE: 10/30/2015	DRAWN: WJH	REVISED:
	CHECKED: 10/30/15	REVISED:

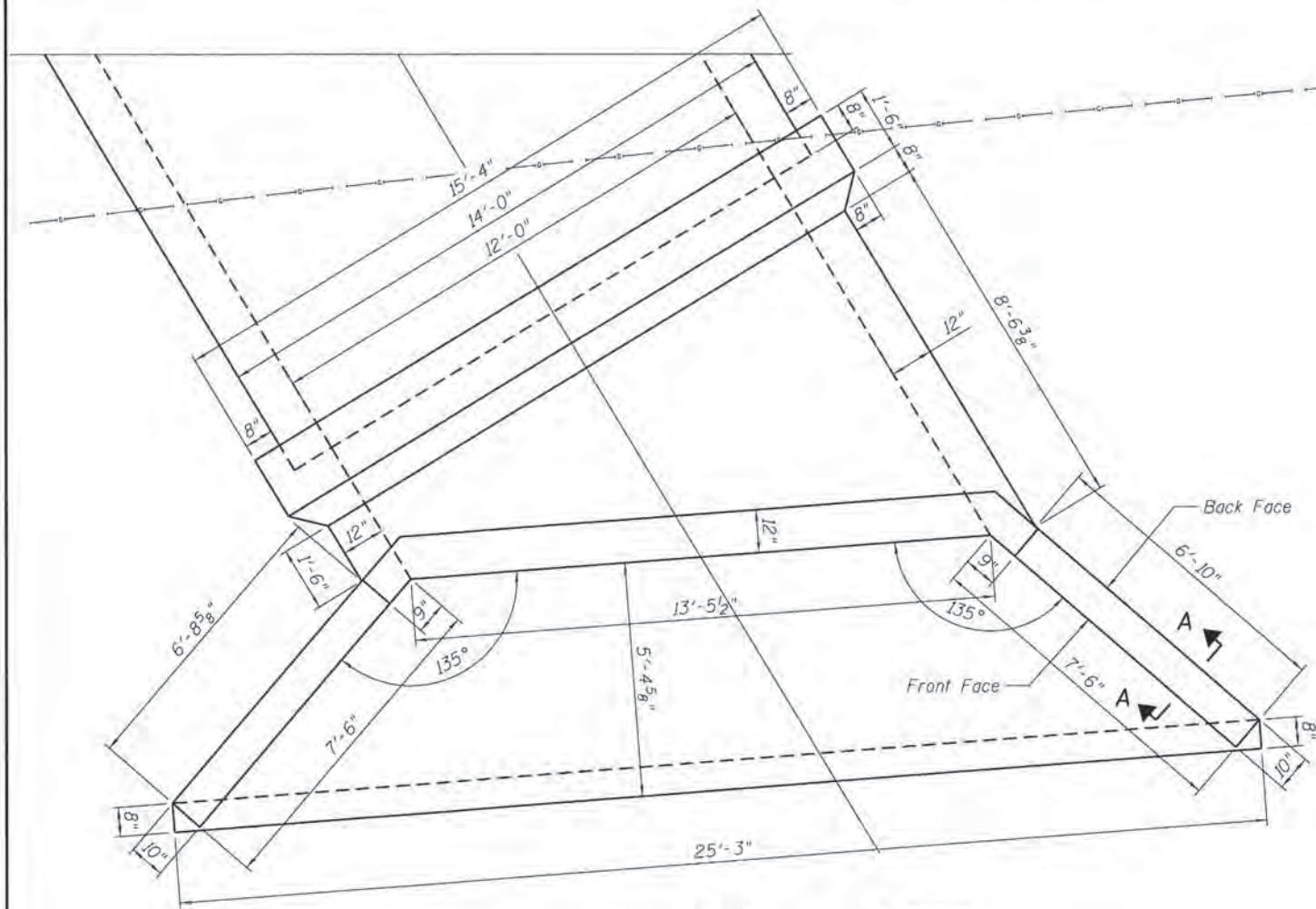
**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**BOX CULVERT END SECTION (WEST) DETAILS**  
**EOLA ROAD**

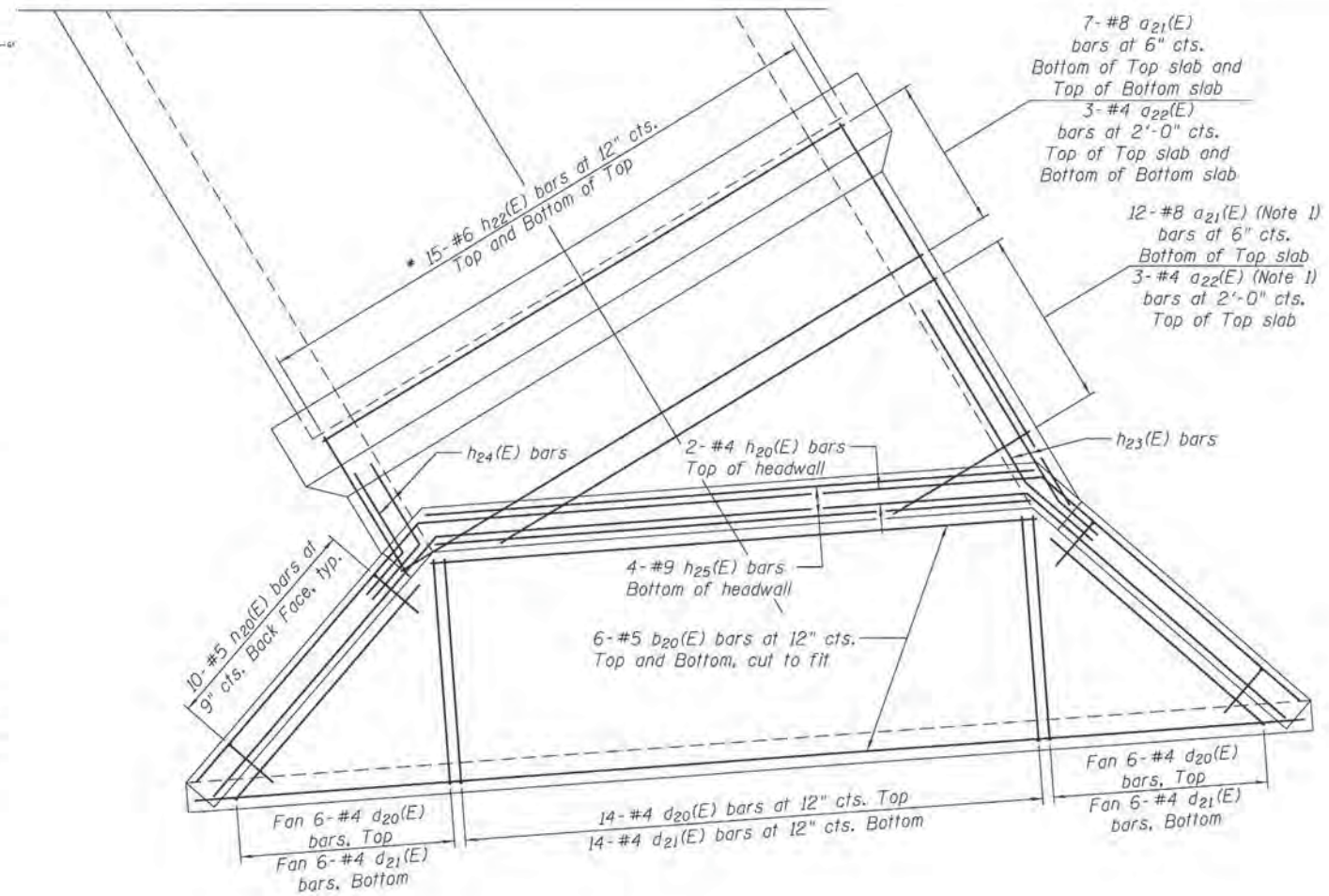
SHEET NO. C-6 OF C-11 SHEETS

F.A.U. RTE: 2531	SECTION: 10-00292-00-WR	COUNTY: DUPAGE	TOTAL SHEETS: 229	SHEET NO.: 130
CONTRACT NO. 61C06				ILLINOIS FED. AID PROJECT





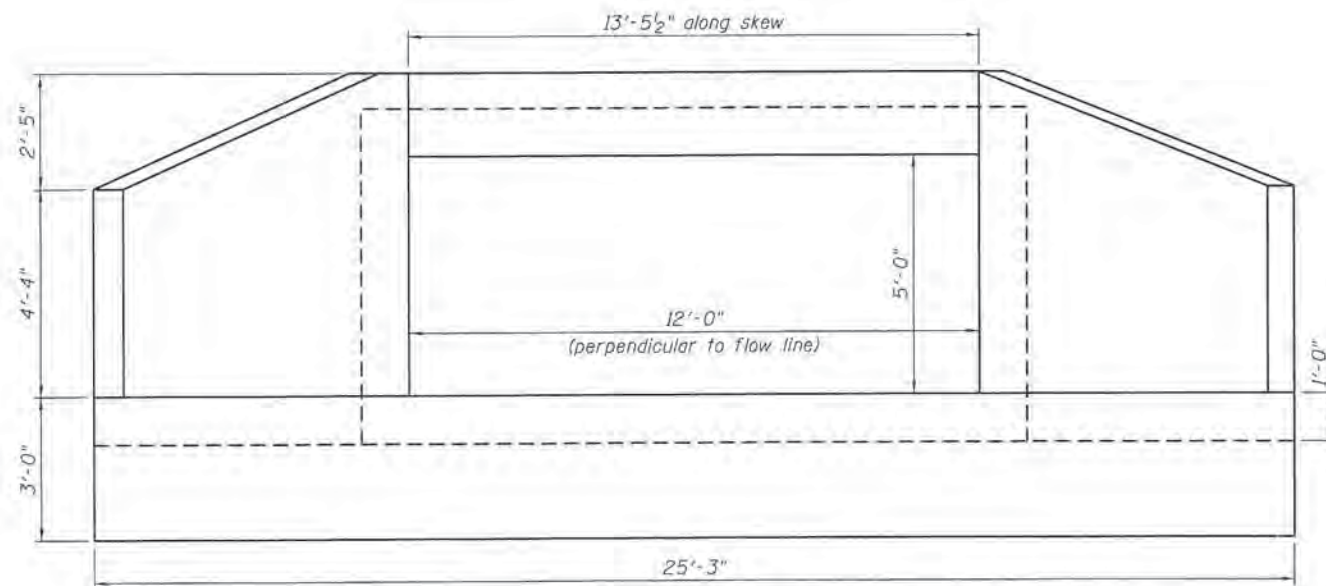
PLAN



**END SECTION  
REBAR LAYOUT**

\* See Field Cutting Diagram on Sheet C-9

Note 1: a21(E) and a22(E) bars in skewed portion of Top slab shall be ordered full length and cut to fit. Balance of bars shall be used in opposite faces of Bottom slab.



ELEVATION

COMPANY NAME: HRGreen  
 PROJECT CONTACT: HRGreen.com  
 DATE PLOTTED: 10/30/2015 10:58:10 AM  
 FILE NAME: I:\proj\2015\10-30-15\10-30-15-10-30-15.dwg  
 PLOT DRIVER: il\_defr\_wpltrc1g  
 PEN TABLE: plottbl.tbl



USER NAME: dotancz  
 PLOT SCALE: N.T.S.  
 PLOT DATE: 10/30/2015

DESIGNED - SEC  
 CHECKED - RGD  
 DRAWN - WJH  
 CHECKED - 10/30/15

REVISED -  
 REVISED -  
 REVISED -  
 REVISED -

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

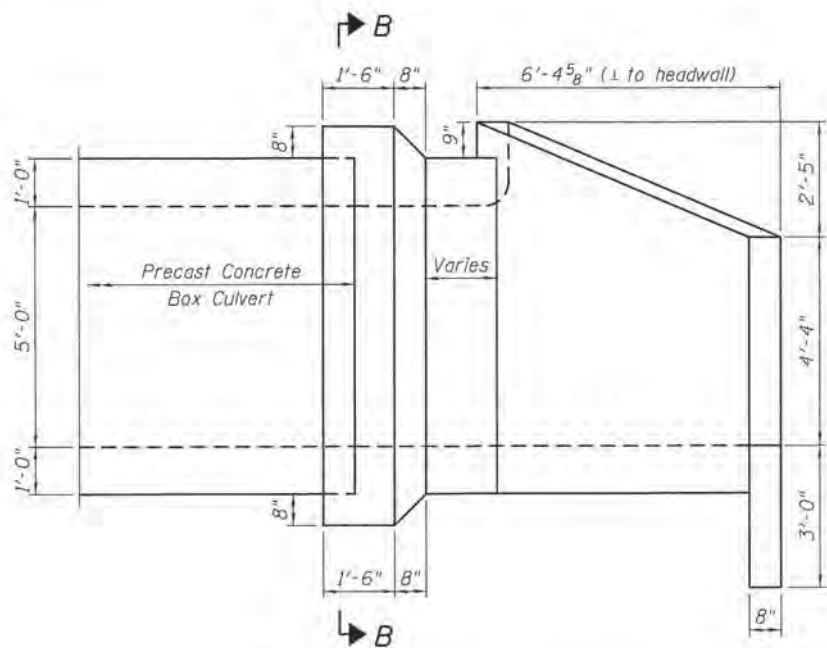
BOX CULVERT END SECTION (EAST) DETAILS  
 EOLA ROAD

SHEET NO. C-7 OF C-11 SHEETS

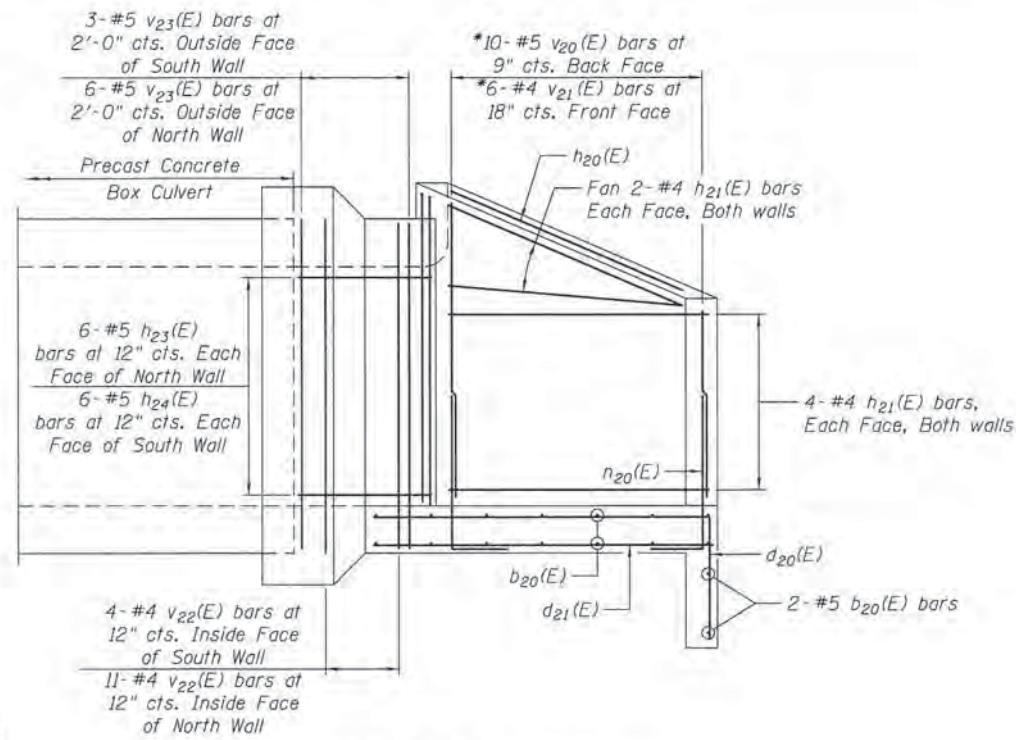
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2531	10-00292-00-WR	DUPAGE	229	131
				CONTRACT NO. 61C06

ILLINOIS FED. AID PROJECT



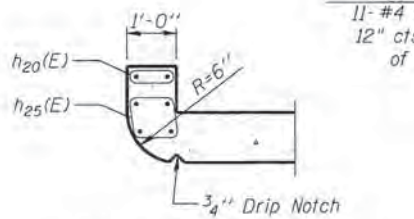


**HALF SIDE ELEVATION**

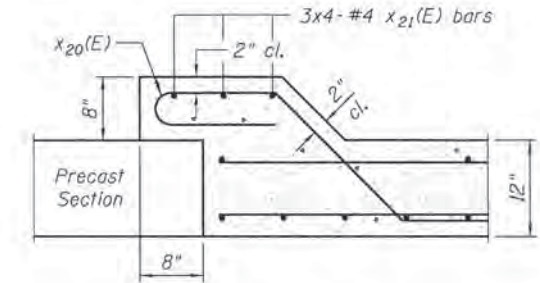


**HALF SIDE ELEVATION  
REBAR LAYOUT**

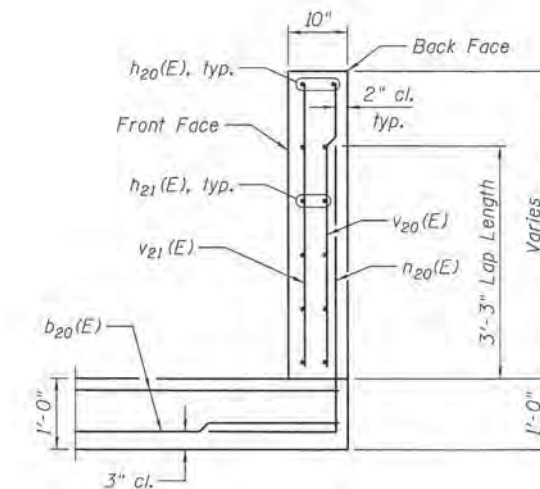
\* See Field Cutting Diagram on Sheet C-9



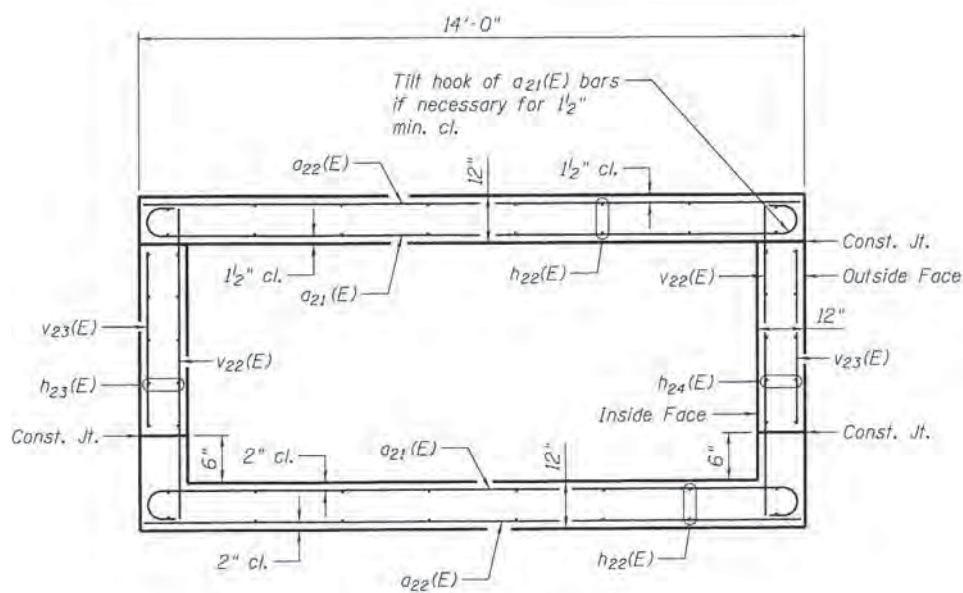
**SECTION THRU HEADWALL  
(Up Stream End Only)**



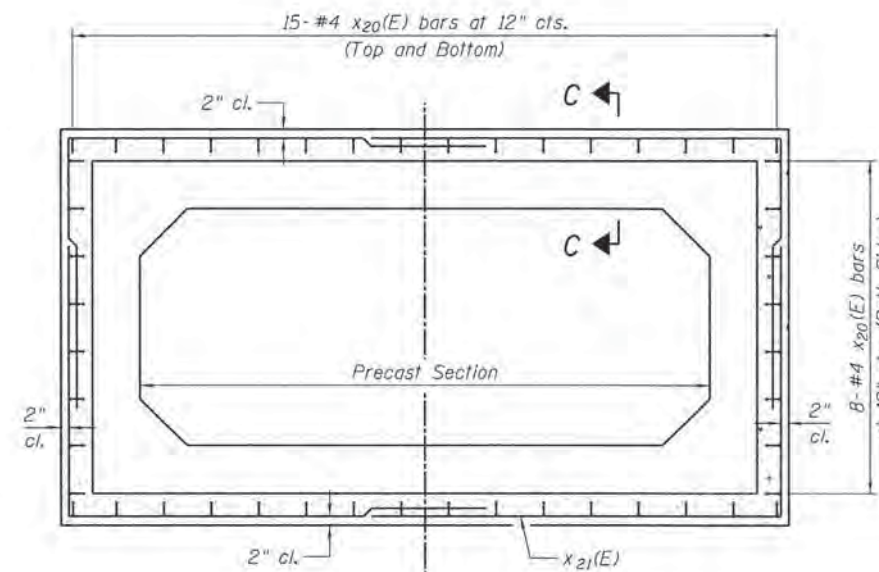
**SECTION C-C**



**SECTION A-A**



**SECTION THRU END SECTION  
BARREL EXTENSION  
Looking Upstream**



**SECTION B-B**

**MINIMUM BAR LAP**

- #4 bar = 2'-7"
- #5 bar = 3'-3"
- #6 bar = 3'-10"

COMPANY NAME: HRGreen.com  
 PROJECT CONTACT: HRGreen.com  
 DATE PLOTTED: 10/30/2015 10:51:12 AM  
 FILE NAME: 86103084-011-S1-EndSection-08.dgn  
 PLOT DRIVER: IL\_Pdf.dwg  
 PEN TABLE: plot.tbl



USER NAME = danielz	DESIGNED - SEC	REVISED -
PLOT SCALE = N.T.S.	CHECKED - RGD	REVISED -
PLOT DATE = 10/30/2015	DRAWN - WJH	REVISED -
	CHECKED - 10/30/15	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

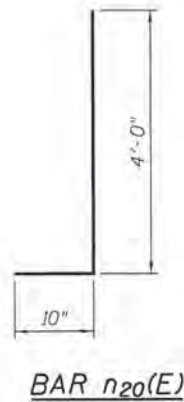
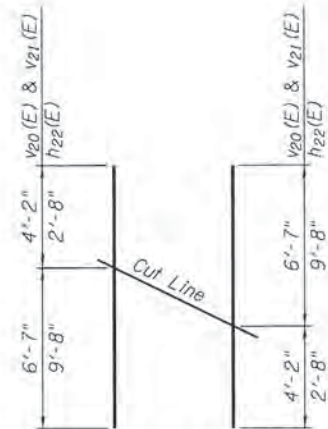
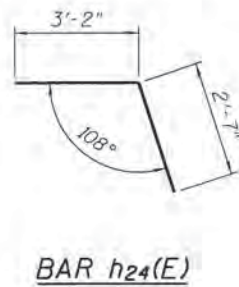
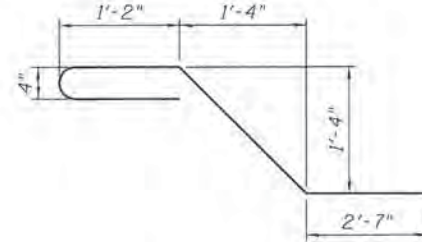
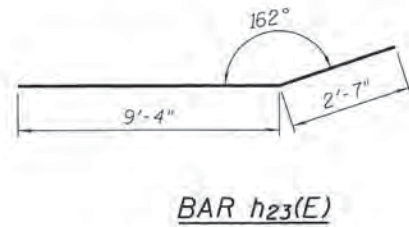
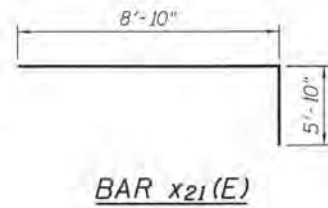
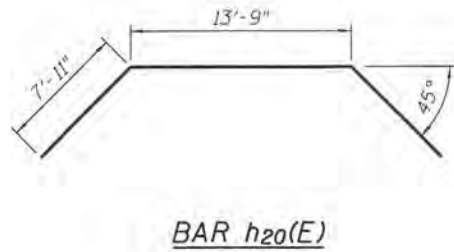
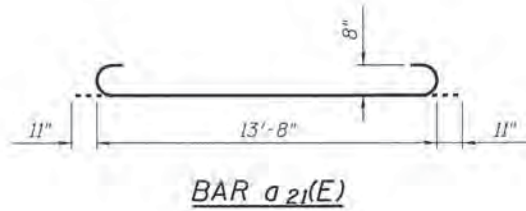
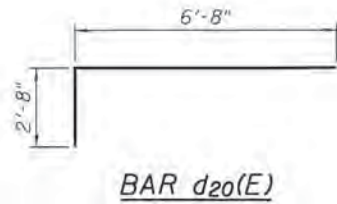
**BOX CULVERT END SECTION (EAST) DETAILS  
EOLA ROAD**

SHEET NO. C-8 OF C-11 SHEETS

F.A.U. RT#	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2531	10-00292-00-WR	DUPAGE	229	132
CONTRACT NO. 61C06				

ILLINOIS FED. AID PROJECT





**BILL OF MATERIALS  
BOX CULVERT END SECTION (EAST)**

See Note 2 on Sheet C-2

Bar	No.	Size	Length	Shape
d <sub>21</sub> (E)	26	#8	15'-6"	
d <sub>22</sub> (E)	9	#4	13'-6"	
d <sub>20</sub> (E)	14	#5	24'-11"	
d <sub>20</sub> (E)	26	#4	9'-4"	
d <sub>21</sub> (E)	26	#4	6'-8"	
h <sub>20</sub> (E)	2	#4	29'-7"	
h <sub>21</sub> (E)	24	#4	7'-4"	
h <sub>22</sub> (E)	30	#6	12'-4"	
h <sub>23</sub> (E)	12	#5	11'-11"	
h <sub>24</sub> (E)	12	#5	5'-9"	
h <sub>25</sub> (E)	4	#9	13'-5"	
h <sub>20</sub> (E)	20	#5	4'-10"	
v <sub>20</sub> (E)	10	#5	10'-9"	
v <sub>21</sub> (E)	6	#4	10'-9"	
v <sub>22</sub> (E)	15	#4	6'-8"	
v <sub>23</sub> (E)	9	#5	4'-2"	
x <sub>20</sub> (E)	46	#4	7'-4"	
x <sub>21</sub> (E)	12	#4	14'-8"	
Box Culvert End Sections, Culvert No. 1			Each	1
Reinforcement Bars, Epoxy Coated (Cost Included Under Box Culvert End Sections)			Pound	3,620
Concrete (Cost Included Under Box Culvert End Sections)			Cu. Yd.	18.5

**NOTES**

1. Bars Indicated thus 12 x 4-#5 etc. indicates 12 lines of bars with 4 lengths per line.

COMPANY NAME: HRGreen  
 PROJECT CONTACT: #PROJECT\_CONTACT#  
 CLIENT: #CLIENT#  
 DATE PLOTTED: 10/30/2015 09:13:13 AM  
 FILE NAME: 86130384-sh1-SF-EndSection2-01.dgn  
 PLOT DRIVER: il\_pdf\_wplterfg  
 PEN TABLE: plotTables.tbl



USER NAME = dstancz	DESIGNED = SEC	REVISED =
CHECKED = RGD	REVISOR =	REVISION =
PLOT SCALE = N.T.S.	DRAWN = WJH	REVISION =
PLOT DATE = 10/30/2015	CHECKED = 10/30/15	REVISION =

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

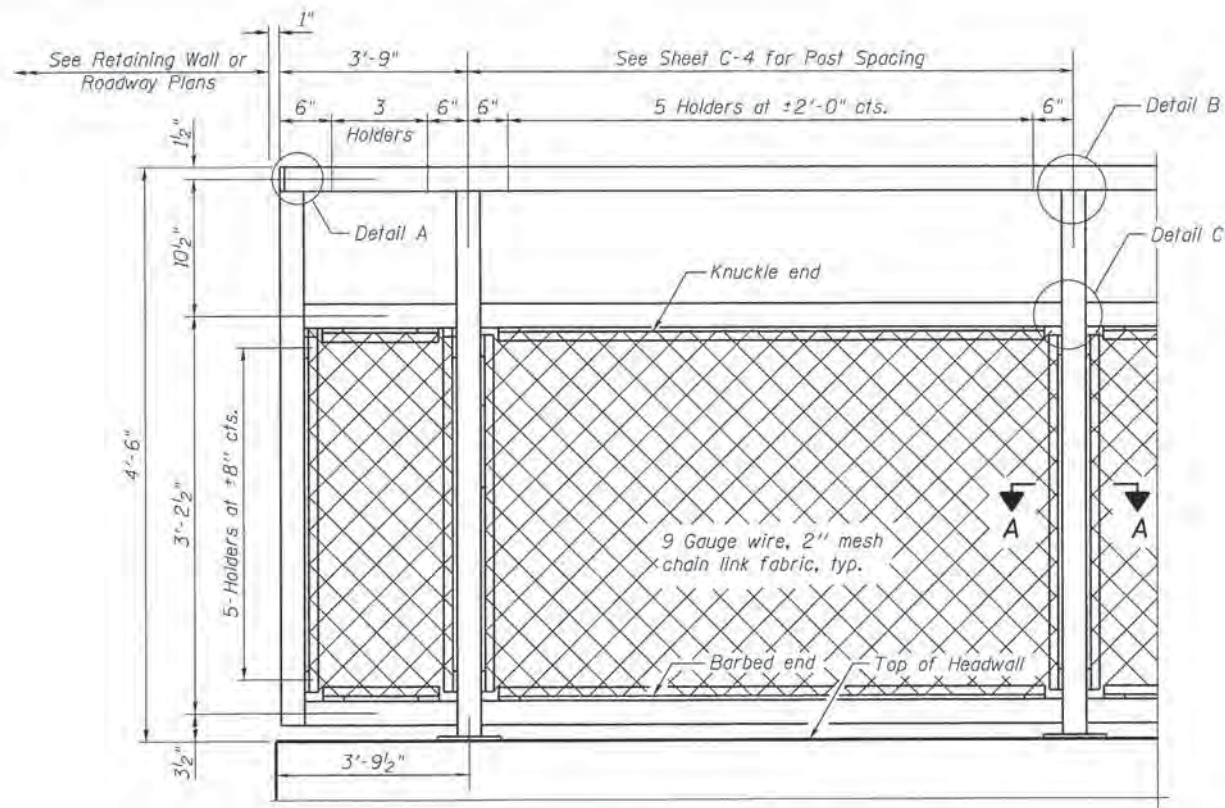
**BOX CULVERT END SECTION (EAST) DETAILS  
EOLA ROAD**

SHEET NO. C-9 OF C-11 SHEETS

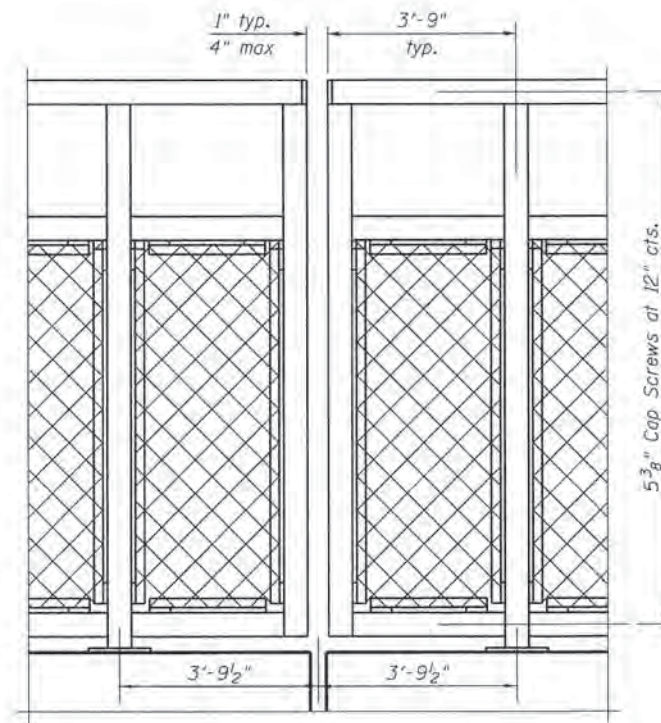
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2531	10-00292-00-WR	DUPAGE	229	133
				CONTRACT NO. 61C06

ILLINOIS FED. AID PROJECT

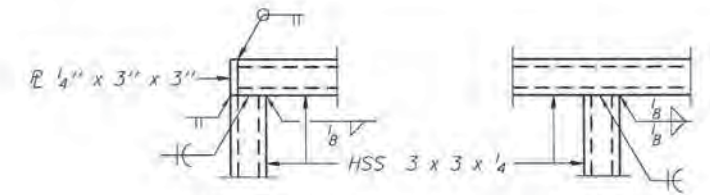




**BICYCLE RAILING ELEVATION**

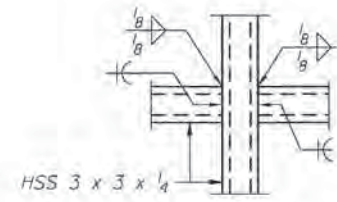


**BICYCLE RAILING ELEVATION AT EXPANSION JOINT**

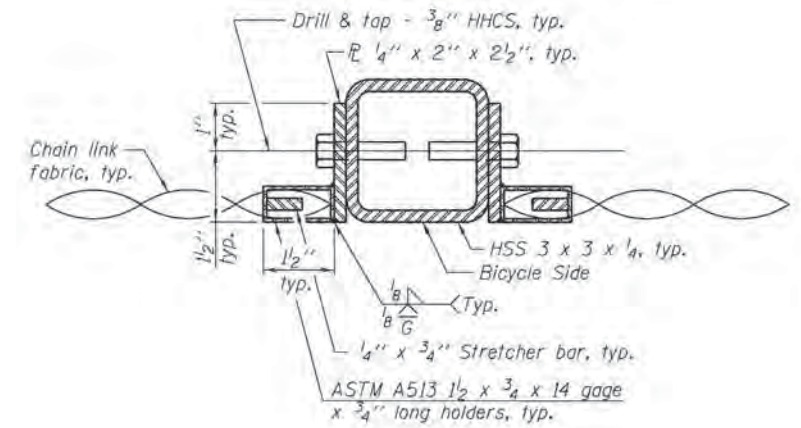


**DETAIL A**

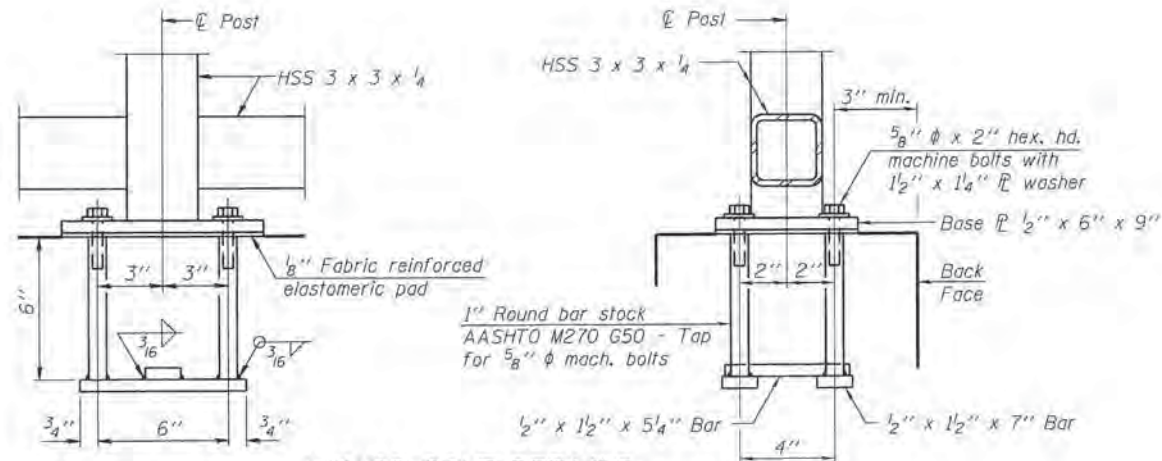
**DETAIL B**



**DETAIL C**

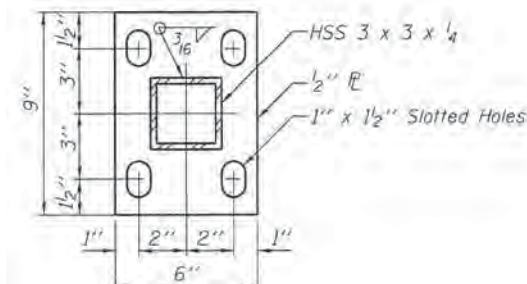


**SECTION A-A**

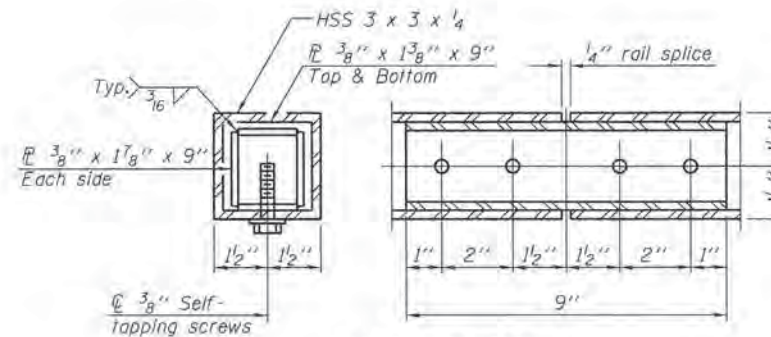


**ANCHOR BOLT DETAILS**

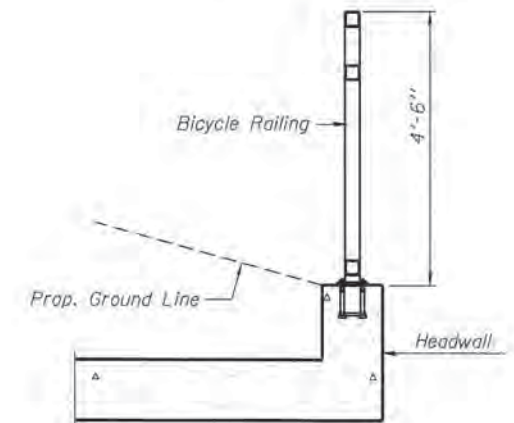
In lieu of the cast-in-place anchor device shown, the Contractor has the option of drilling and setting 5/8" Ø anchor rods according to Article 509.06 of the Standard Specifications. Embedment shall be according to the manufacturer's specifications.



**BASE Ø**



**RAIL SPLICE**



**SECTION THROUGH CULVERT END SECTION**

**BILL OF MATERIAL**

Item	Unit	Quantity
Bicycle Railing	Foot	36

Note:  
All post, railing, splices, anchor devices and bent plates shall be powder coated black.

COMPANY NAME: HRGreen.com  
PROJECT CONTACT: HRGreen.com  
CLIENT: ILLINOIS DEPARTMENT OF TRANSPORTATION  
DRAWN BY: WJH  
CHECKED BY: RGD  
DESIGNED BY: SEC  
DATE: 10/30/15

(10'-0" Maximum Post Spacing)



USER NAME = dsteranz  
PLOT SCALE = N.T.S.  
PLOT DATE = 10/30/2015

DESIGNED - SEC  
CHECKED - RGD  
DRAWN - WJH  
CHECKED - 10/30/15

REVISED -  
REVISED -  
REVISED -  
REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

BICYCLE RAILING  
EOLA ROAD

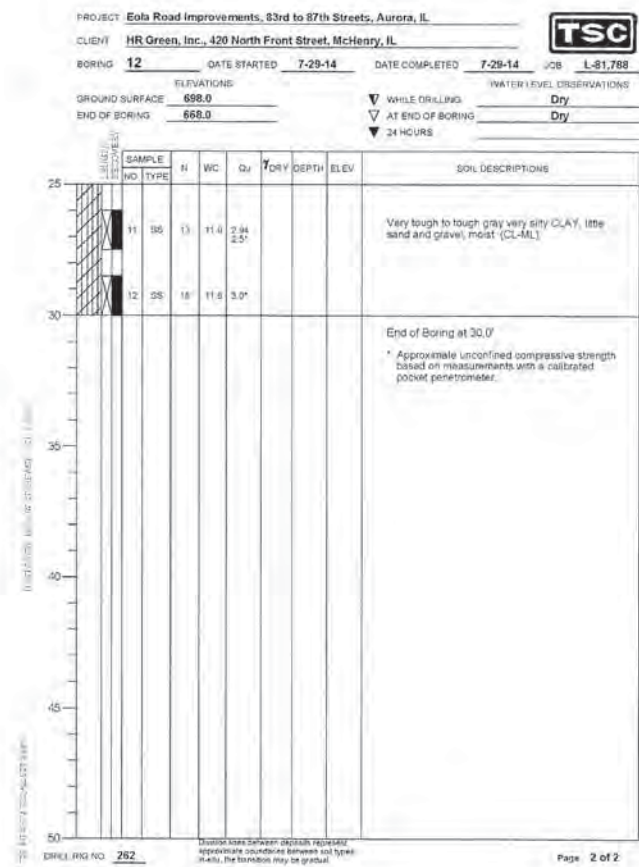
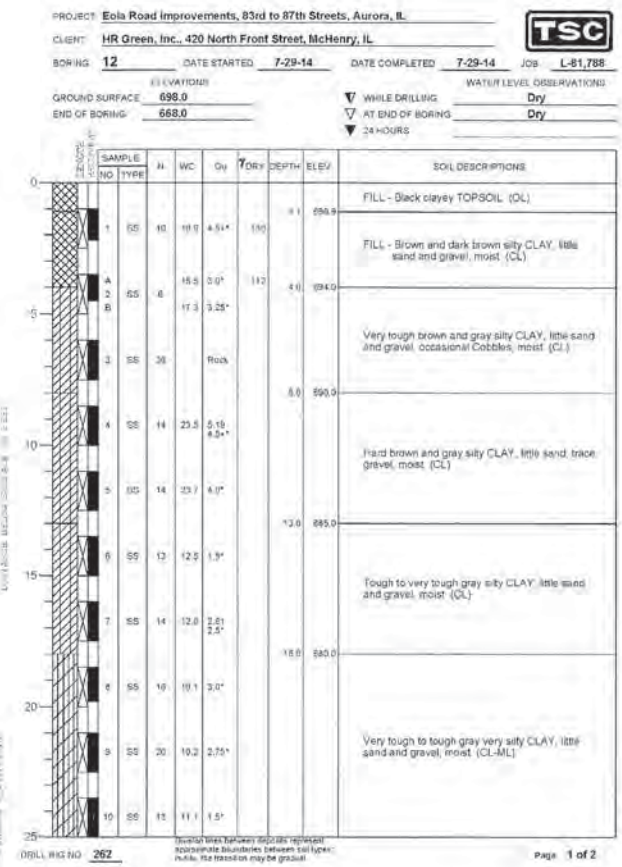
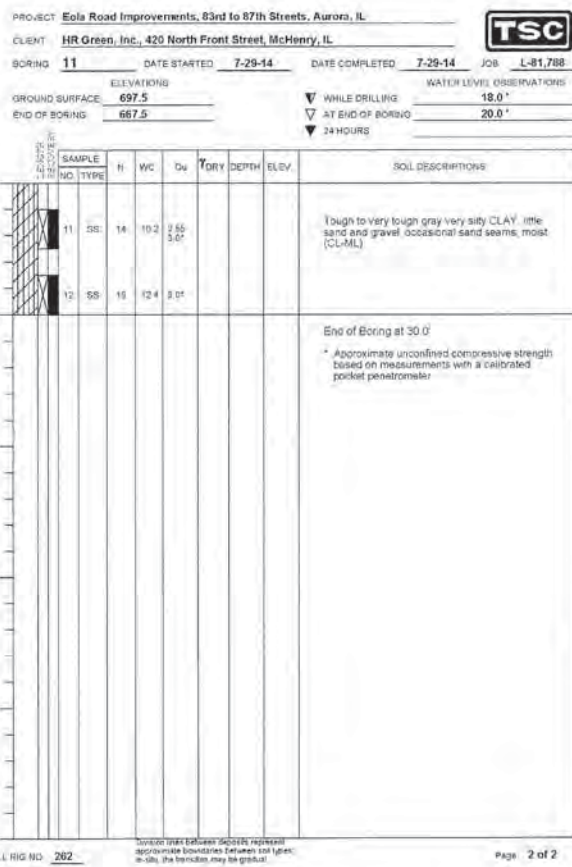
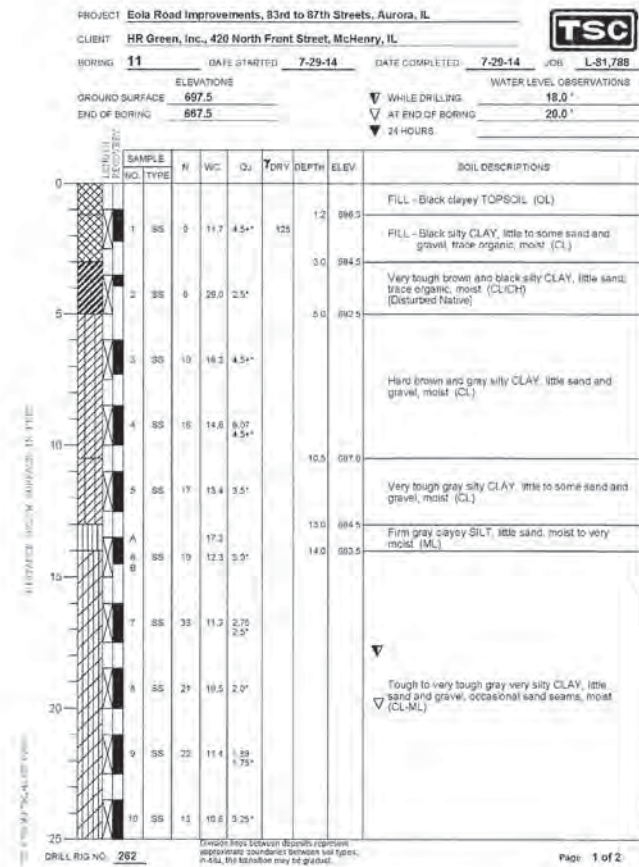
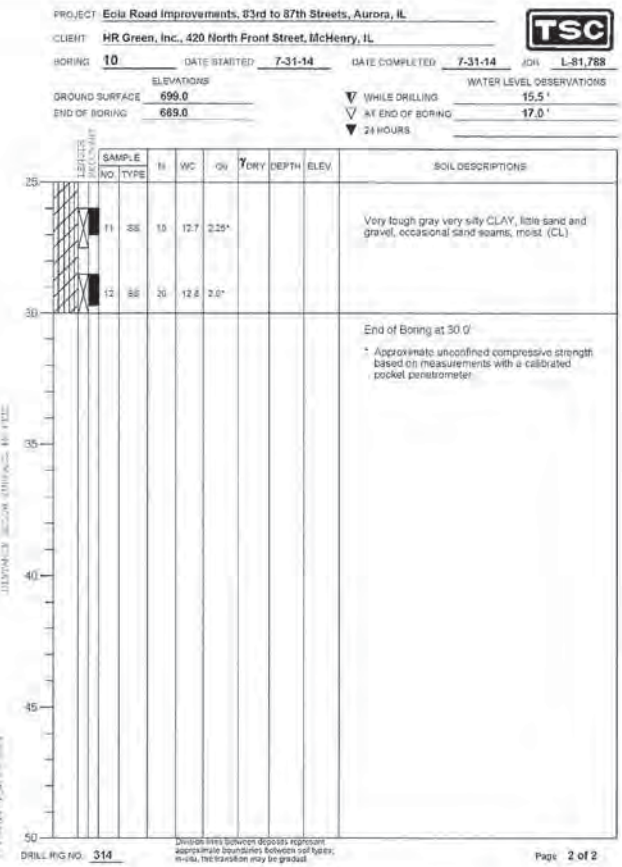
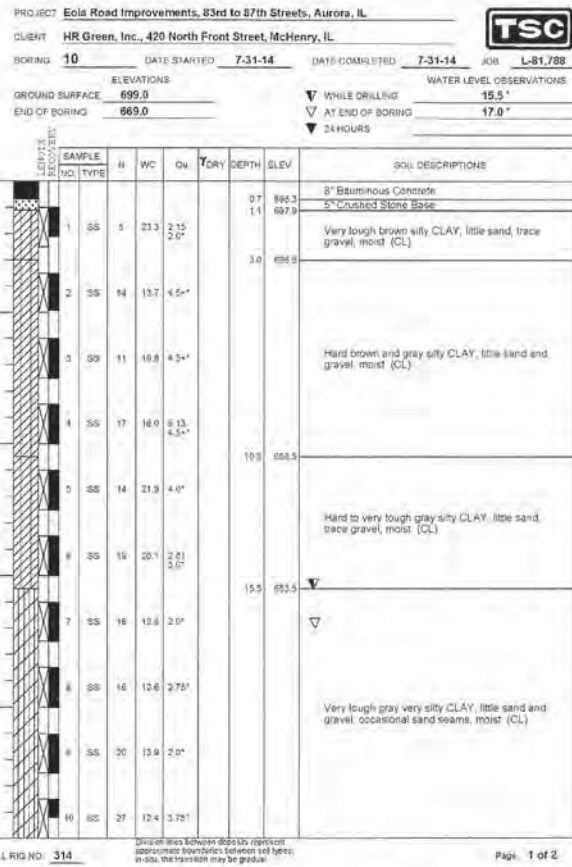
SHEET NO. C-10 OF C-11 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2531	10-00292-00-WR	DUPAGE	229	134

CONTRACT NO. 61C06

ILLINOIS FED. AID PROJECT





COMPANY NAME: HRGreen  
 PROJECT CONTACT: HRGreen  
 CLIENT: HR Green, Inc.  
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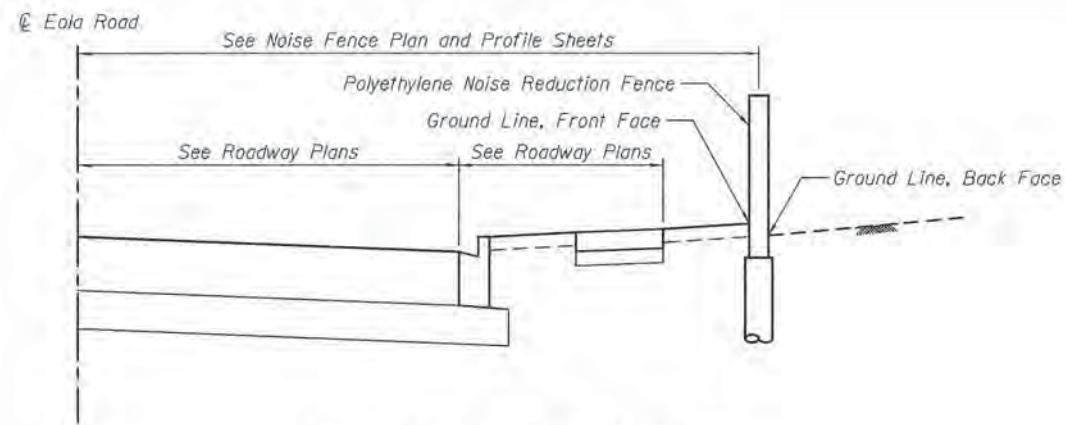
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STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

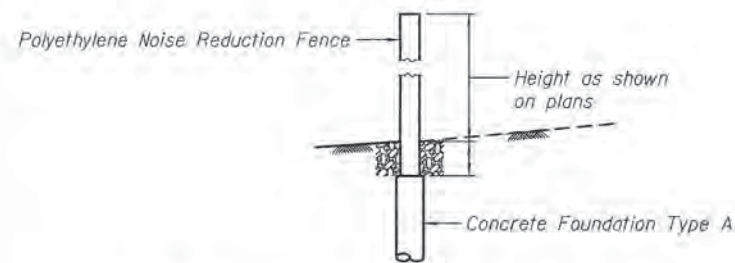
SOIL BORING LOGS  
 BOX CULVERT, EOLA ROAD  
 SHEET NO. C-11 OF C-11 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 61C06				
[ILLINOIS] FED. AID PROJECT				

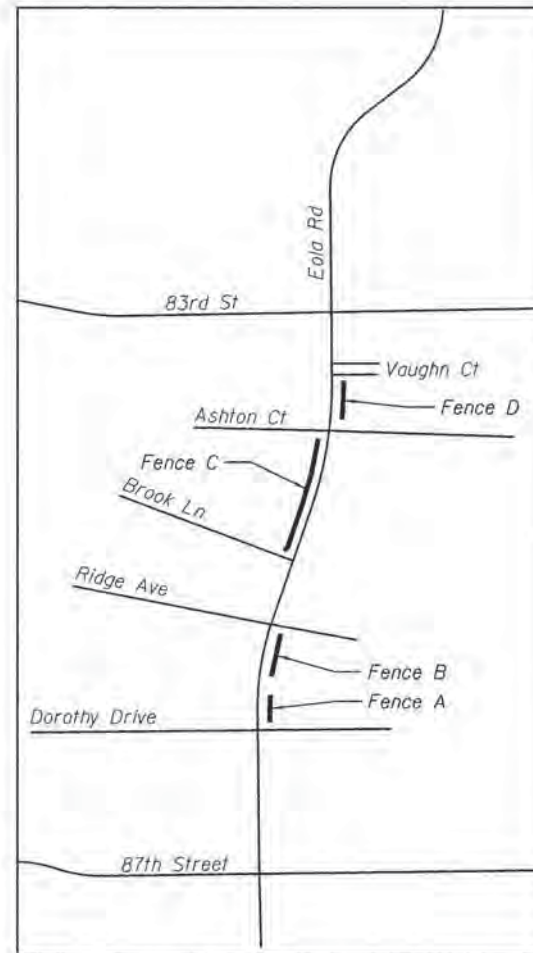




**PROPOSED TYPICAL SECTION**



**POLYETHYLENE NOISE REDUCTION FENCE**



**LOCATION SKETCH**

**INDEX OF SHEETS**

NW-1	Details and General Notes
NW-2	Noise Reduction Fence
NW-3	Noise Reduction Fence
NW-4	Noise Reduction Fence
NW-5	Soil Boring Logs
NW-6	Soil Boring Logs
NW-7	Soil Boring Logs

**GENERAL NOTES**

1. Minimum wall vertical dimensions shown on noise reduction fence plan and profile sheets are distances between minimum acoustical profile line and proposed ground line on roadway side.
2. See alignment & tie drawings for benchmark information.
3. See noise reduction fence plan and profile sheets for location of soil borings.
4. See drainage and utility sheets for approximate location of existing utilities. Verify locations through JULIE 800-892-0123. The contractor shall verify exact locations of these utilities and make necessary notifications with the utility prior to commencing foundation work near their facilities.
5. Maintain uniformity between fence panel length to greatest extent possible.
6. Provide temporary casing if necessary to hold augured hole open until placing of concrete foundation and to prevent any disturbance to land on adjacent properties cost included in "Polyethylene Noise Reduction Fence".
7. See specifications for applicable design standards.
8. The stations provided for the existing and proposed storm and sanitary sewers are approximate. The contractor shall verify the exact locations of these utilities in the field prior to laying out foundation for the fences. No additional payment will be made due to discrepancy in the actual locations and stations provided on the drawings.
9. See Plan and Profile sheets of roadway plans for roadway profiles and alignment.
10. Contractor shall follow requirements of the project specifications for material, design, fabrication, construction and erection requirements of the proposed noise reduction fences.

The contractor shall maintain 12" minimum clearance between existing underground utilities and new foundations unless noted otherwise. In areas where foundations and underground facilities are proposed adjacent to existing utilities, the contractor shall pot hole by vacuum excavation or hand excavation to locate the existing utility to verify minimum clearance requirements

The foundation design and layout shall endeavor to maximize the clear distance between wall foundations and water mains and sanitary sewers that cross under the wall minimum allowable clear distance of 5'.

Stations and offsets shown on noise reduction fence plan and profile sheets are to centerline of wall.

COMPANY NAME: HRGreen.com  
 PROJECT CONTACT: HRGreen.com  
 DATE PLOTTED: 12/9/2015 10:43:19 AM  
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 PLOT DRIVER: ilplot.dwg  
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**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

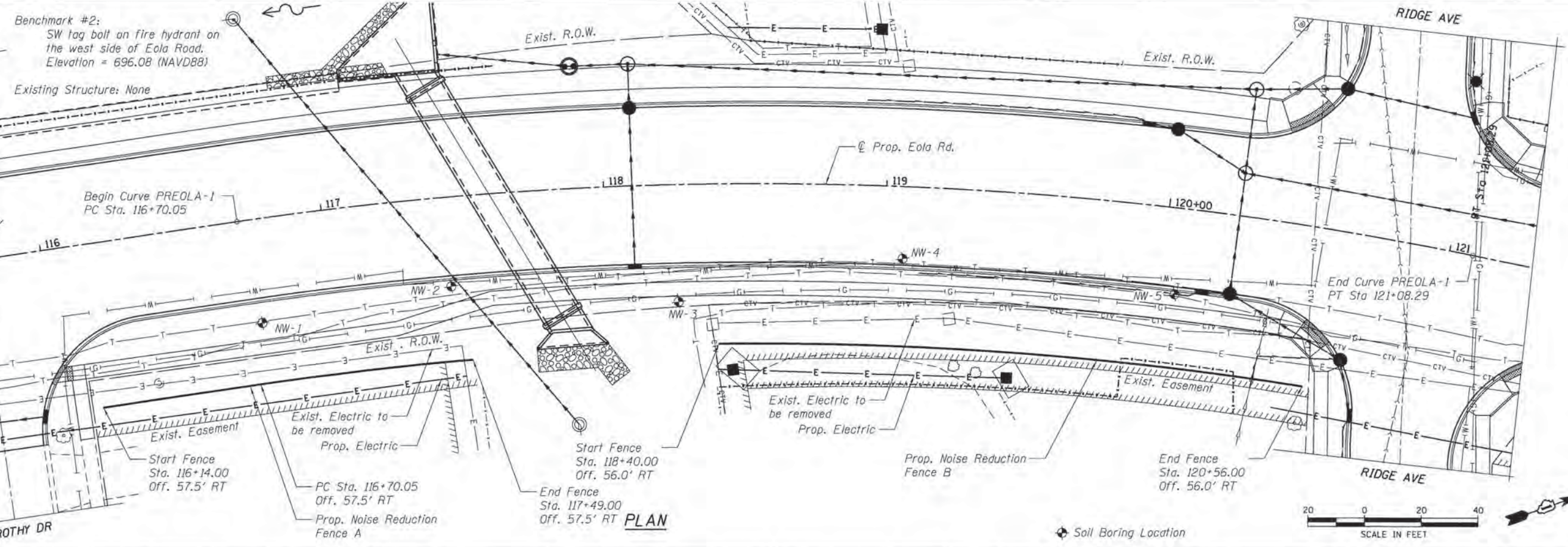
**DETAILS AND GENERAL NOTES  
 NOISE REDUCTION FENCE**

SHEET NO. NW-1 OF NW-7 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2531	10-00292-00-WR	DUPAGE	229	136
CONTRACT NO. 61C06				
ILLINOIS FED. AID PROJECT				

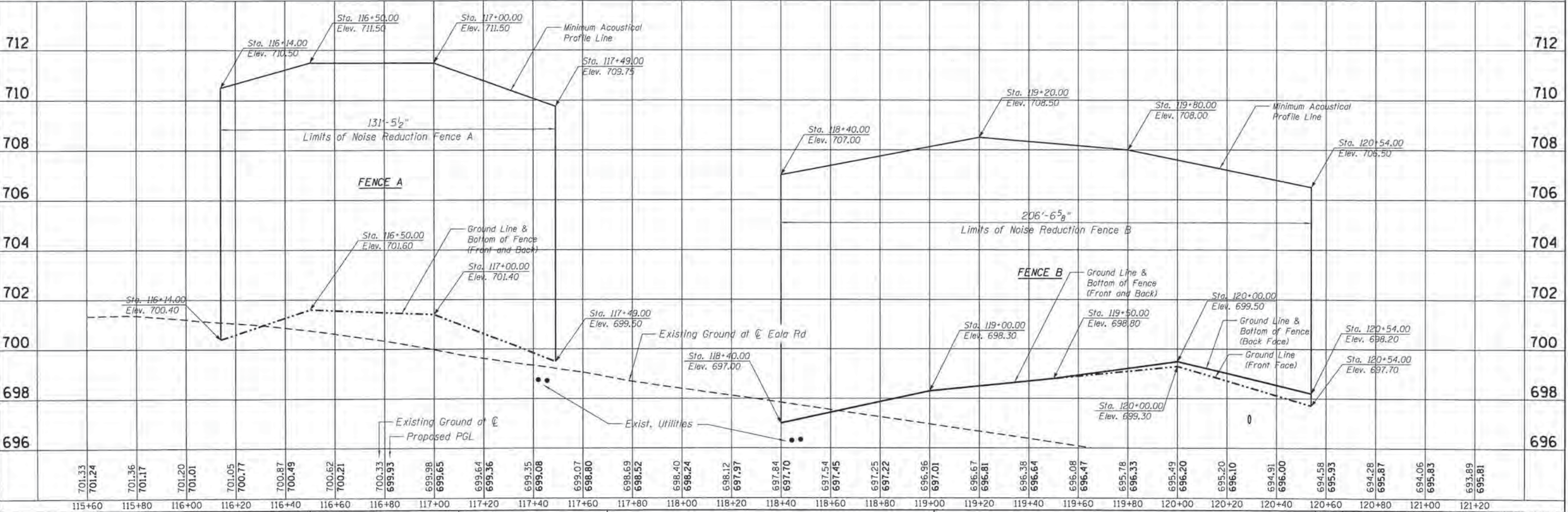


PROP. CURVE PREOLA-1  
 $\Delta = 19^\circ 41' 38''$  (RT)  
 $D = 4^\circ 29' 38''$   
 $R = 1,275.00'$   
 $T = 221.31'$   
 $L = 438.24'$   
 $E = 19.06'$   
 $e = N/A$   
P.C. STA. = 116+70.05  
N: 1843059.28  
E: 1005688.97  
P.I. STA. = 118+91.35  
N: 1843280.57  
E: 1005686.68  
P.T. STA. = 121+08.29  
N: 1843489.69  
E: 1005759.11



DATE	
BY	
PLAN	
NO. OF WAY CHECKED	
NO. OF WAY CHECKED	
NO. OF WAY CHECKED	
NO. OF WAY CHECKED	
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DATE	
BY	
PROFILE	
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PROJECT CONTACT: HRGreen.com  
CLIENT: HRGreen.com  
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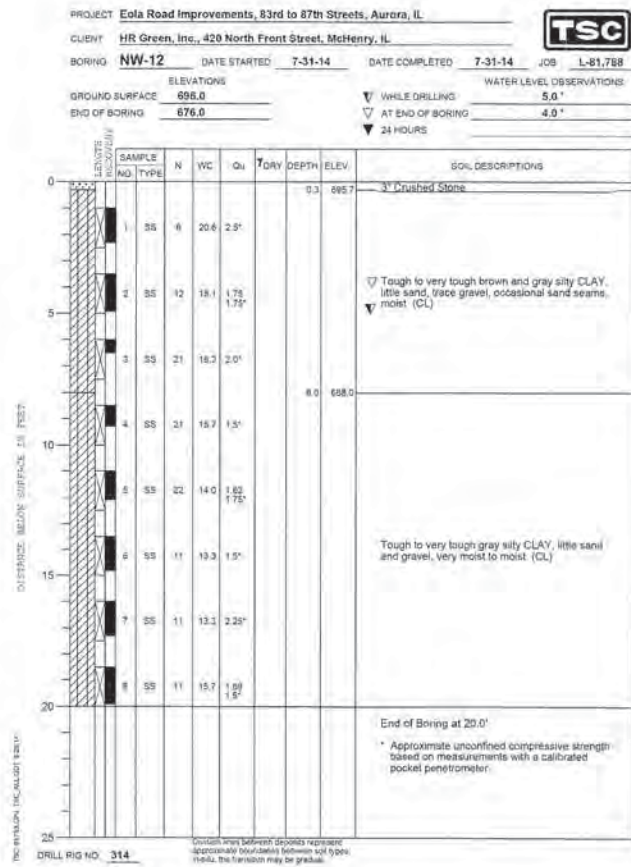
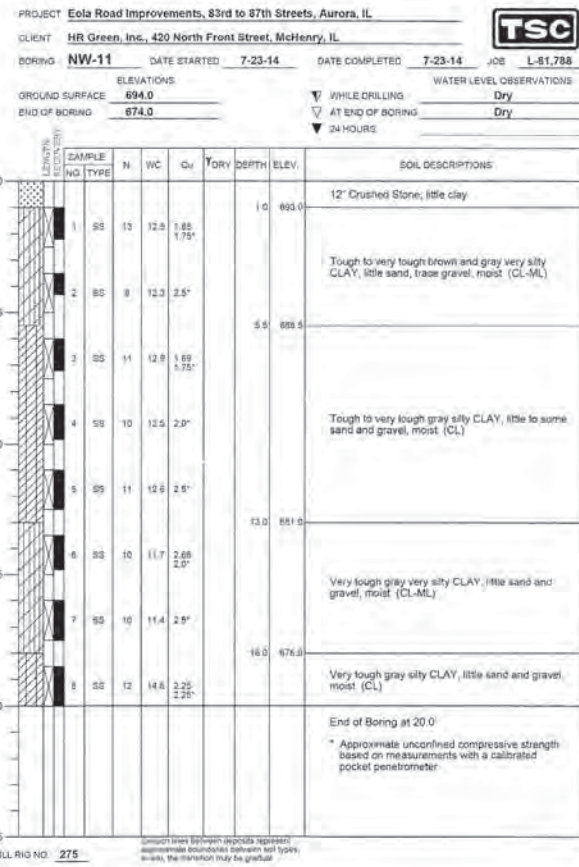
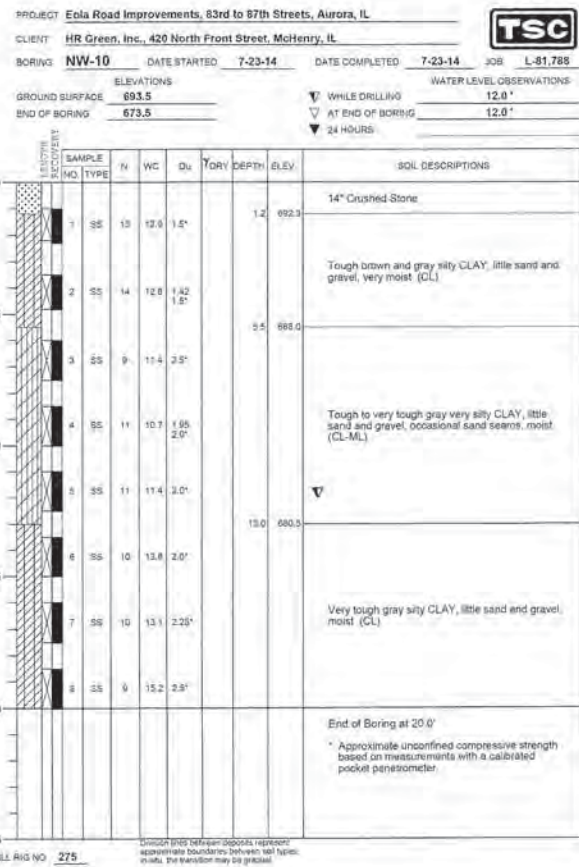
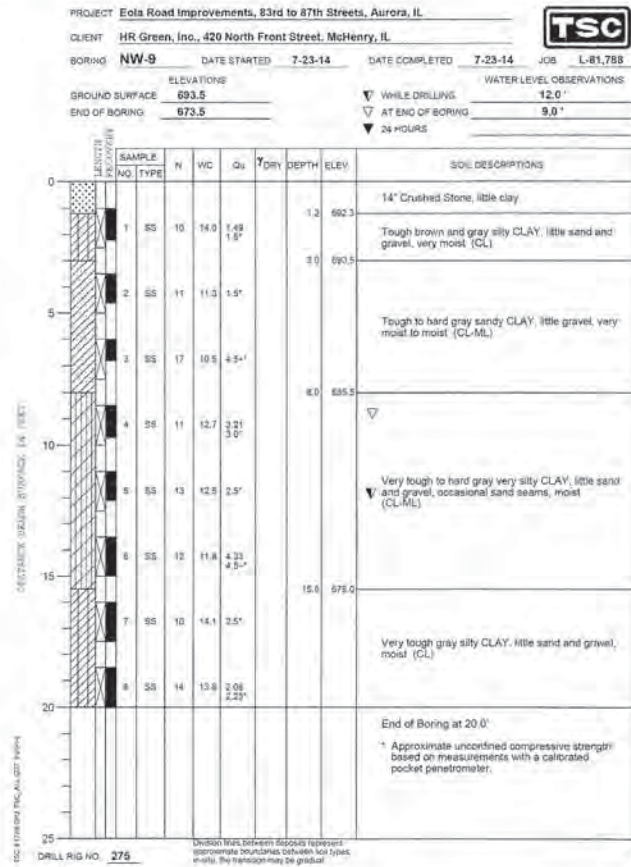
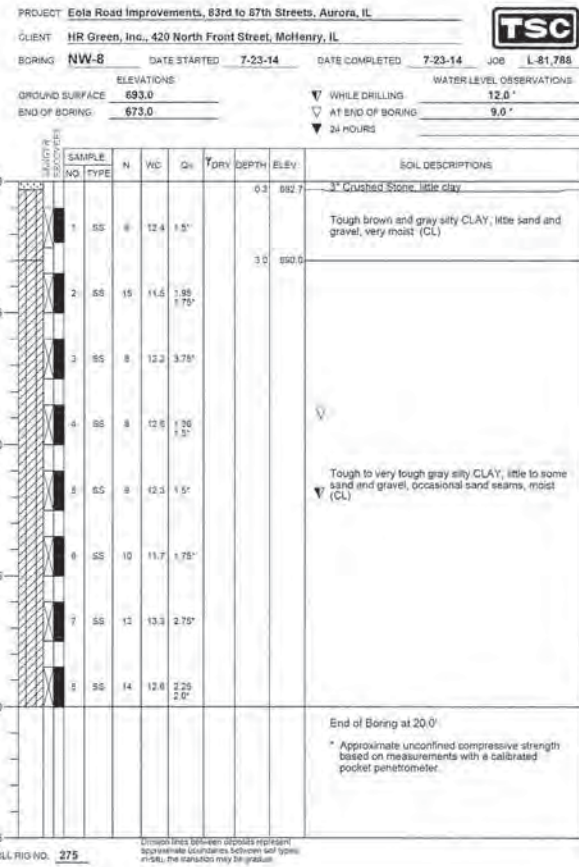
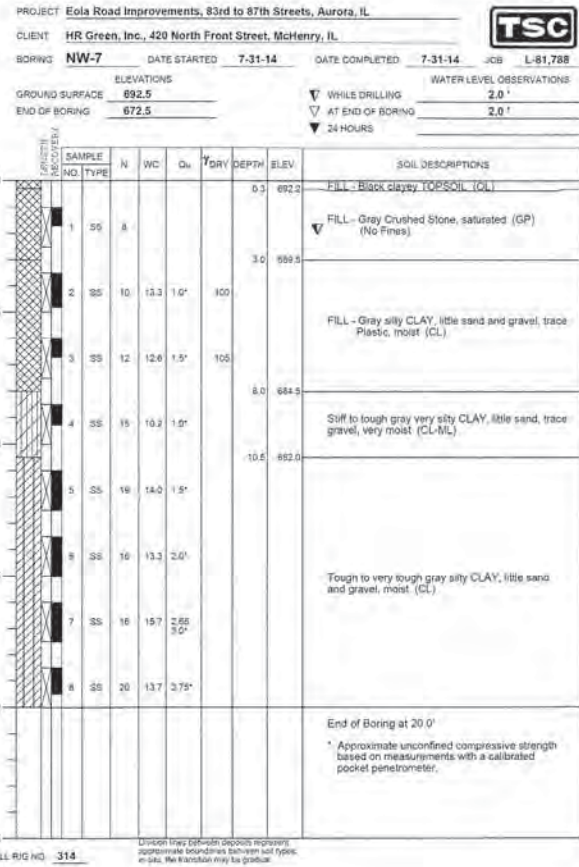












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	CHECKED = 10/30/15	REVISED =

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

SOIL BORING LOGS  
 EOLA ROAD

SHEET NO. NW-6 OF NW-7 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2531	10-00292-00-WR	DUPAGE	229	141
CONTRACT NO. 61C06				
ILLINOIS FED. AID PROJECT				

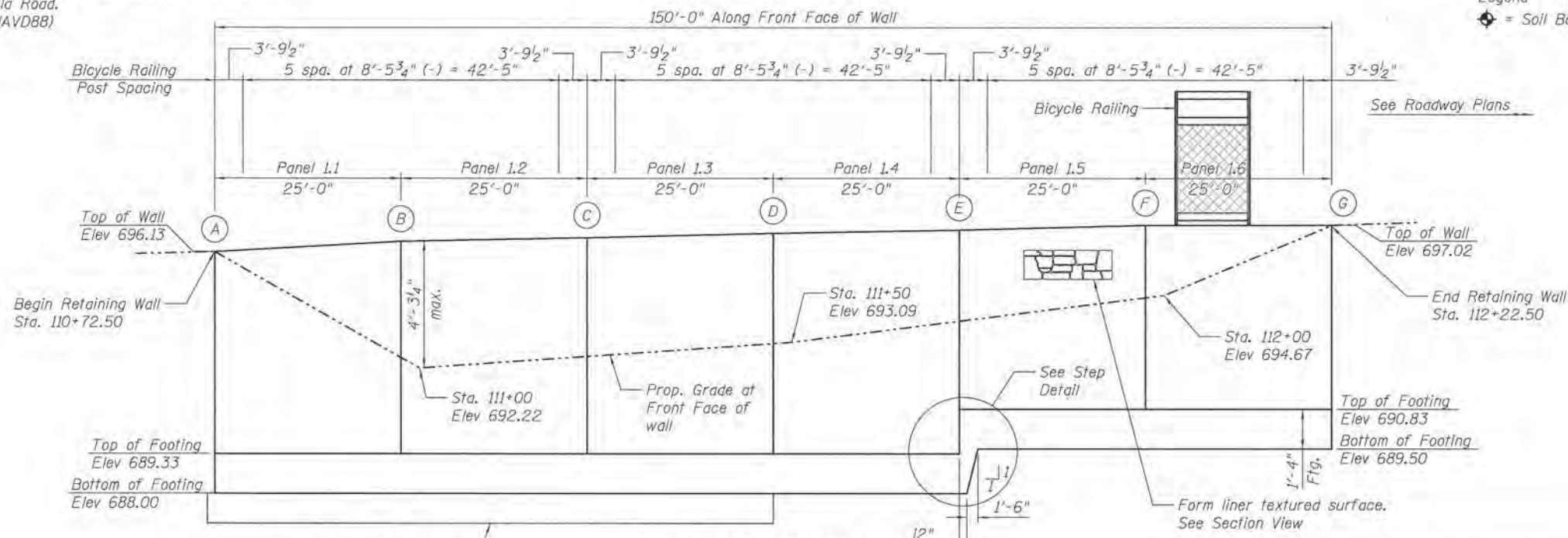






Benchmark #3:  
Cut cross in south east corner of transformer foundation located on the north west corner of the intersection of Keating Drive and Eola Road. Elevation = 696.15 (NAVD88)

Existing Structure: None



6" of Removal and Disposal of Unsuitable Material (12 CY - South Half) Extend removal 1' beyond edges of proposed footing. Backfill with Porous Granular Backfill. Depth and limits to be determined in the field by the Engineer. An assumed quantity of the above pay item has been included in the contract for bidding purposes.

**WALL 1 ELEVATION**

(Looking at Back Face of wall)

Legend  
◆ = Soil Boring Location

**INDEX OF SHEETS**

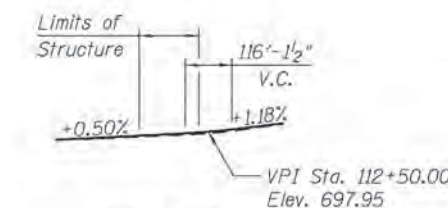
- RW1-1 General Plan and Elevation
- RW1-2 Retaining Wall Details
- RW1-3 Retaining Wall Details
- RW1-4 Bicycle Railing
- RW1-5 Soil Boring Logs

**DESIGN SPECIFICATIONS**

2014 AASHTO LRFD Bridge Design Specifications, 7th Edition

**DESIGN STRESSES**

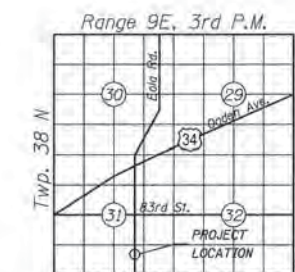
**FIELD UNITS**  
f'c = 3,500 psi  
fy = 60,000 psi (Reinforcement)



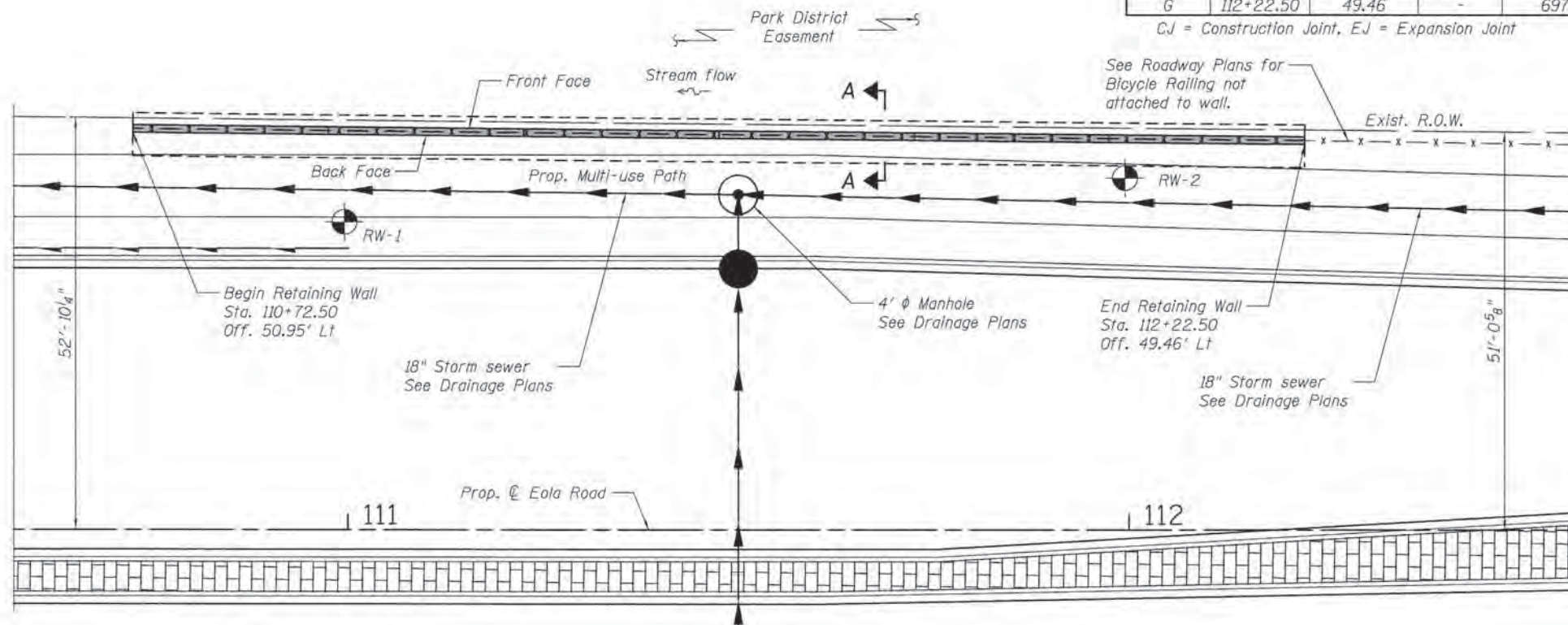
**PROFILE GRADE**

Joint	Station	Offset to Back Face	Type	T/Wall Elev.
A	110+72.50	50.95	-	696.13
B	110+97.50	50.70	CJ	696.48
C	111+22.50	50.45	EJ	696.60
D	111+47.50	50.21	CJ	696.75
E	111+72.50	49.96	EJ	696.86
F	111+97.50	49.71	CJ	697.02
G	112+22.50	49.46	-	697.02

CJ = Construction Joint, EJ = Expansion Joint



**LOCATION SKETCH**



**WALL 1 PLAN**

To the best of my knowledge, information and belief, this retaining wall design is structurally adequate for the design loading shown on the plans. The design is an economical one for the style of structure and complies with the requirements of the current "AASHTO LRFD Bridge Design Specification".



Structural Engineer Expires: 11/30/2016  
HRGreen

**GENERAL PLAN AND ELEVATION**  
**EOLA ROAD RETAINING WALL #1**  
**SECTION NO. 10-00292-00-WR**  
**F.A.U. RTE 2531**  
**DUPAGE COUNTY**  
**STA. 110+72.50 TO STA. 112+22.50**

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PROJECT CONTACT: HRGreen.com  
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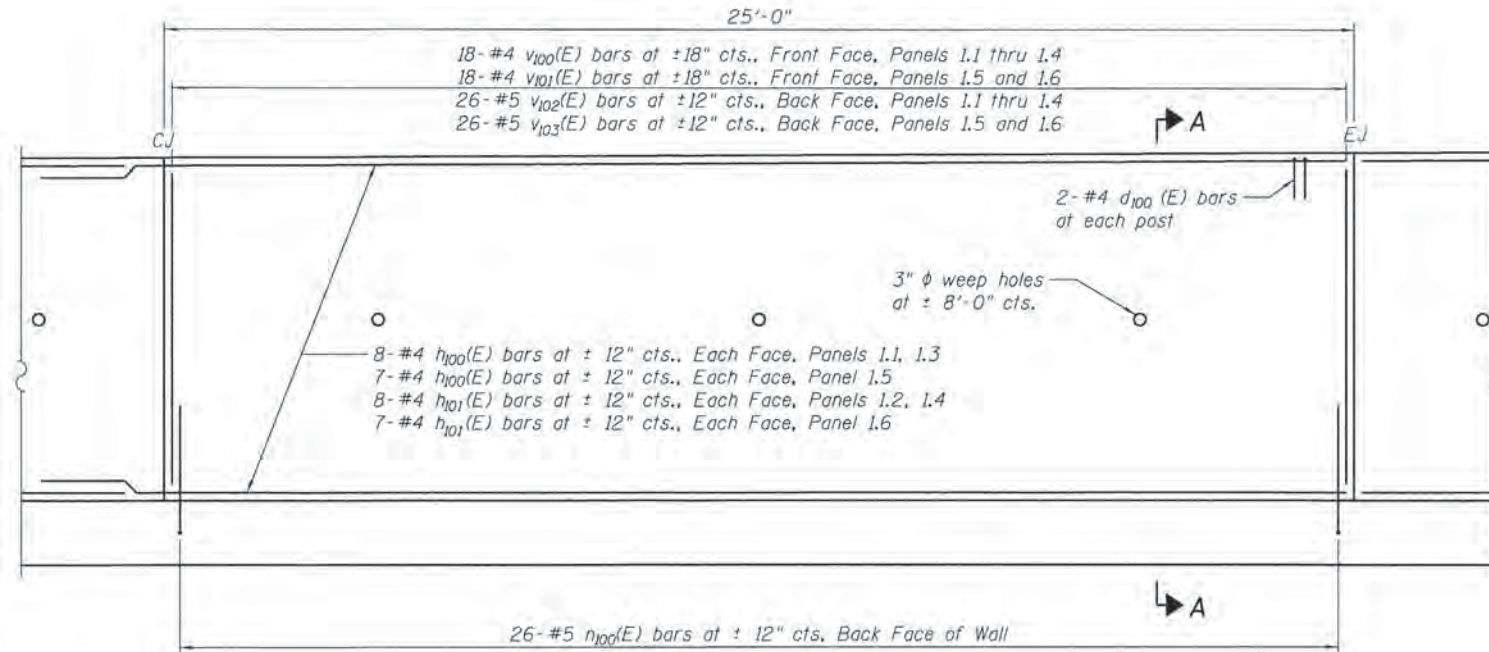
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STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SHEET NO. RW1-1 OF RW1-5 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2531	10-00292-00-WR	DUPAGE	229	143
CONTRACT NO. 61C06			ILLINOIS FED. AID PROJECT	



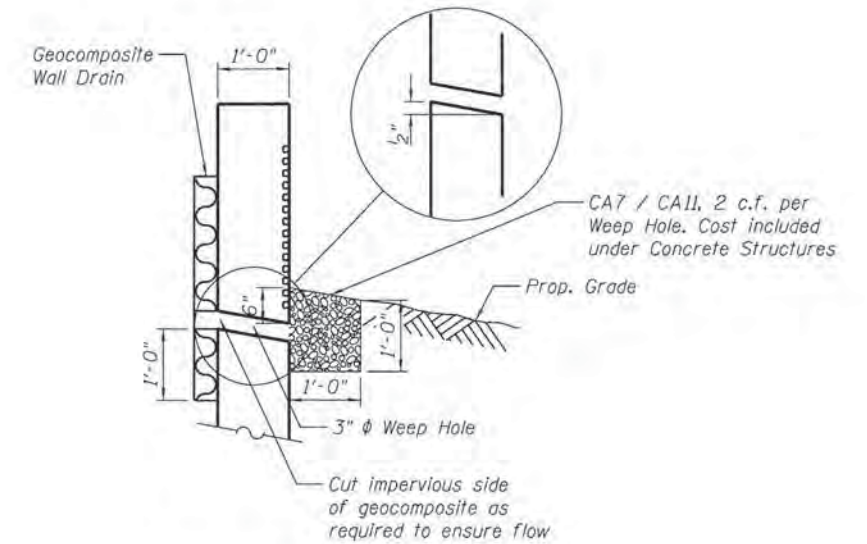


**MINIMUM BAR LAP**

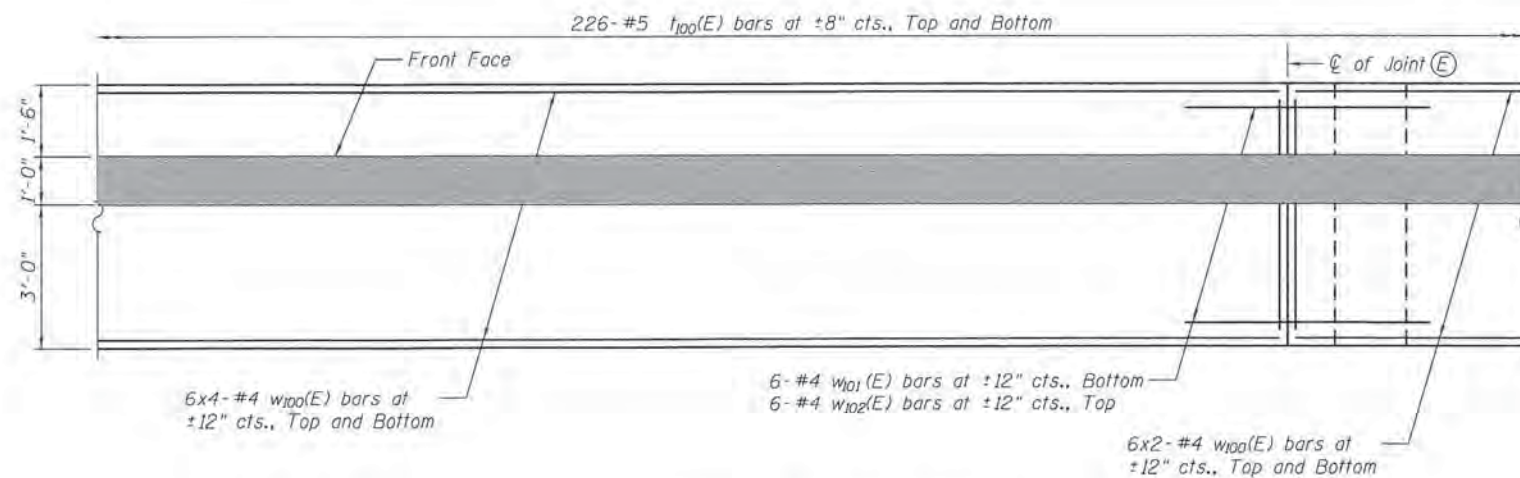
#4 bar = 2'-0"  
 #5 bar = 3'-3"  
 (Unless noted otherwise.)

**TYPICAL WALL SECTION**

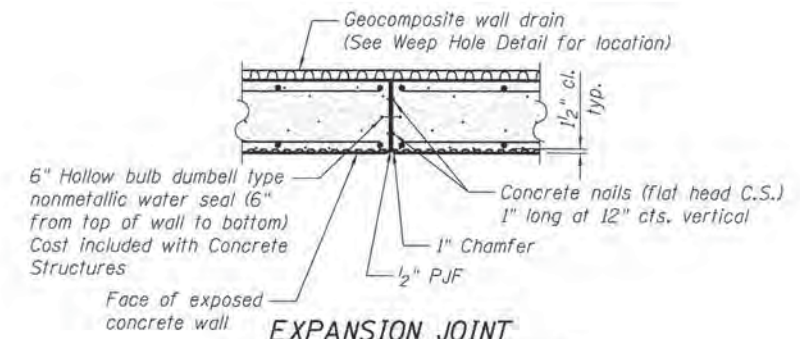
(Looking at Front Face)



**WEEP HOLE DRAIN DETAIL**

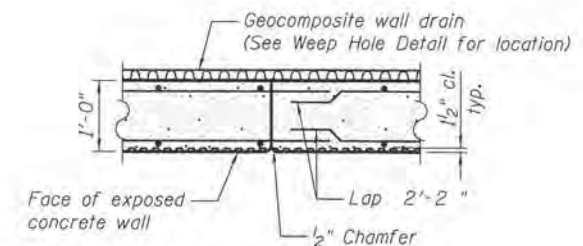


**TYPICAL FOOTING PLAN**



**EXPANSION JOINT**

Cost included with Concrete Structures



**CONSTRUCTION JOINT**

Cost included with Concrete Structures

COMPANY NAME: HRGreen.com  
 PROJECT CONTACT: #PROJECT\_CONTACT#  
 CLIENT: #CLIENT#  
 PLOT DATE: 10/30/2015  
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**HRGreen.com**  
 Illinois Professional Design Firm  
 #184-091322

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PLOT SCALE = N.T.S.	CHECKED - RGD	REVISED -
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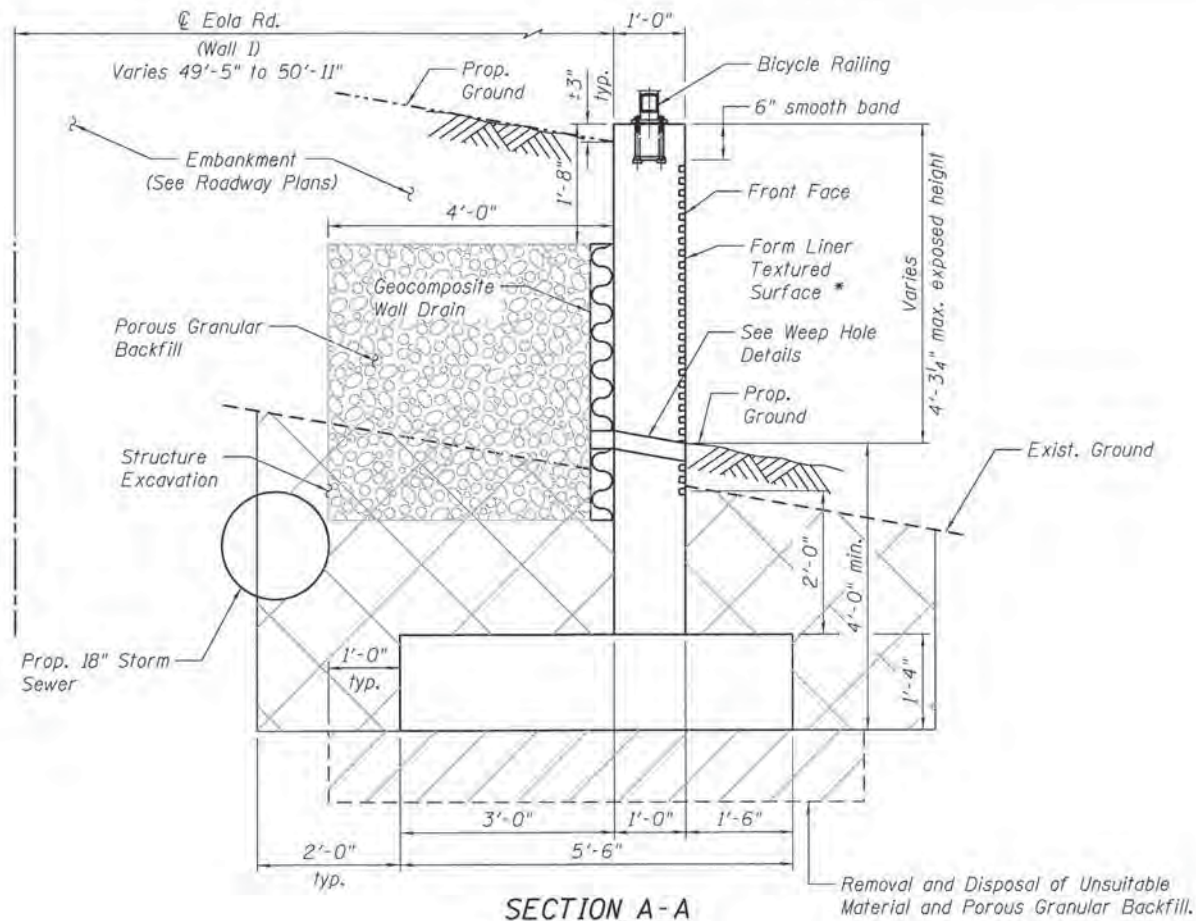
**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**RETAINING WALL DETAILS  
 EOLA ROAD**

SHEET NO. RW1-2 OF RW1-5 SHEETS

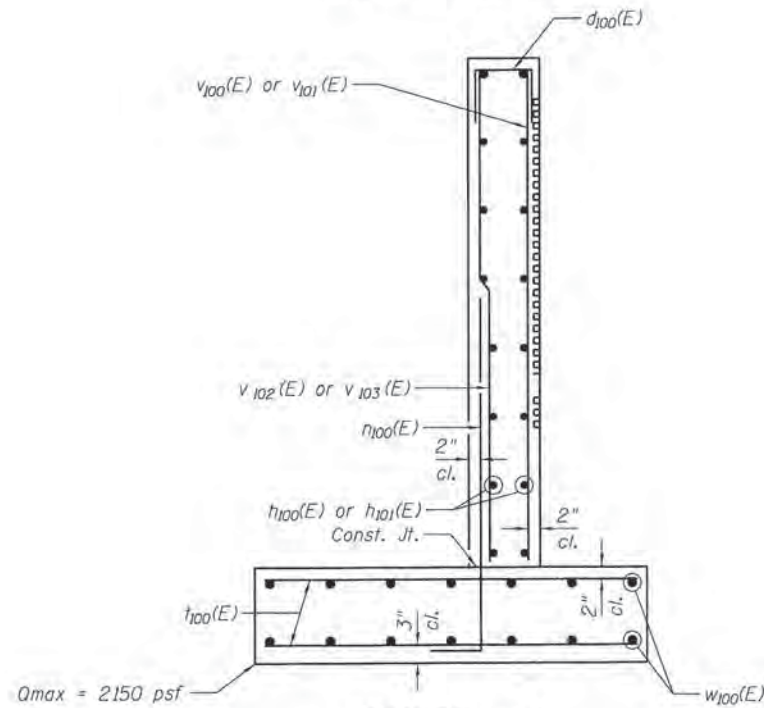
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				CONTRACT NO. 61C06
ILLINOIS FED. AID PROJECT				



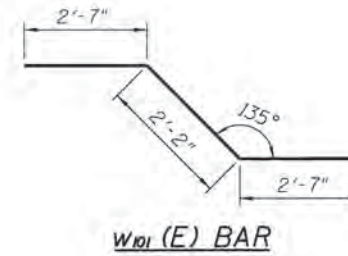


**SECTION A-A**

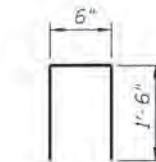
\* See Special Provisions for form liner pattern



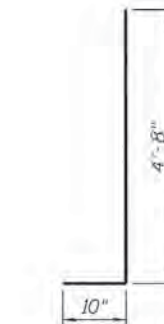
**SECTION A-A SHOWING REBAR**



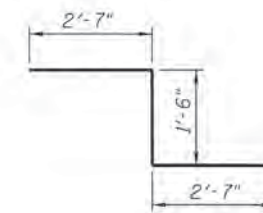
**W101 (E) BAR**



**d100 (E) BAR**



**n100 (E) BAR**



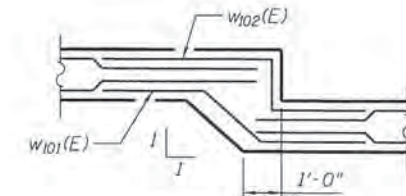
**W102 (E) BAR**

**BILL OF MATERIALS**

Bar	No.	Size	Length	Shape
d100(E)	36	#4	3'-6"	U
h100(E)	46	#4	27'-2"	—
h101(E)	46	#4	24'-8"	—
n100(E)	156	#5	5'-6"	L
v100(E)	72	#4	6'-11"	—
v101(E)	36	#4	5'-8"	—
v102(E)	104	#5	6'-11"	—
v103(E)	52	#5	5'-8"	—
t100(E)	452	#5	5'-2"	—
W100(E)	72	#4	26'-6"	—
W101(E)	6	#4	7'-4"	—
W102(E)	6	#4	6'-8"	—
Removal and Disposal of Unsuitable Material			Cu. Yd.	12
Porous Granular Backfill			Cu. Yd.	85
Structure Excavation			Cu. Yd.	280
Concrete Structures			Cu. Yd.	79.4
Form Liner Textured Surface			Sq. Ft.	680
Reinforcement Bars, Epoxy Coated			Pound	7,860
Bicycle Railing			Foot	150
Geocomposite Wall Drain			Sq. Yd.	55

Reinforcement bars designated (E) shall be epoxy coated

Bars indicated thus 1x2-#5 etc. indicate 1 line of bars with 2 lengths per line.



**STEP DETAIL**

COMPANY NAME: HRGreen  
 PROJECT CONTACT: HRGreen  
 CLIENTS: HRGreen  
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 CHECKED - 10/30/15

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 REVISED -  
 REVISED -

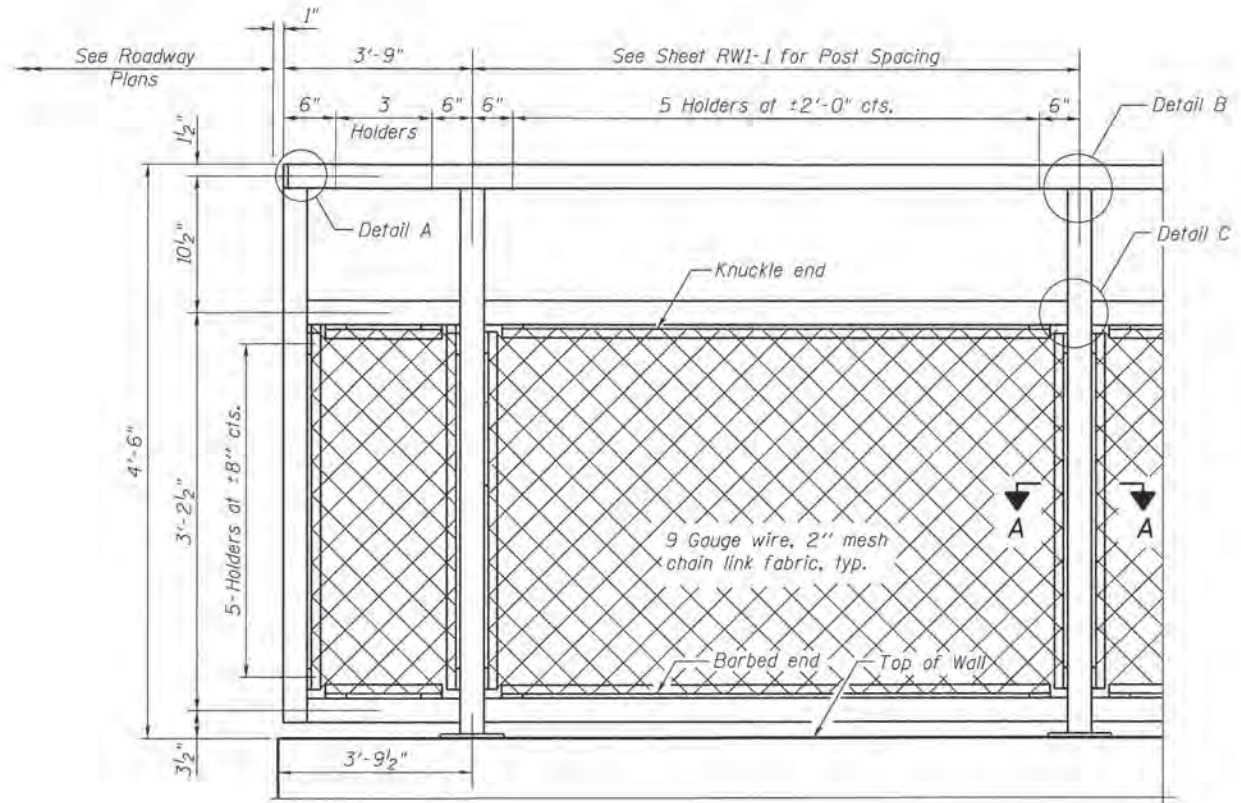
**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**RETAINING WALL DETAILS**  
**EOLA ROAD**

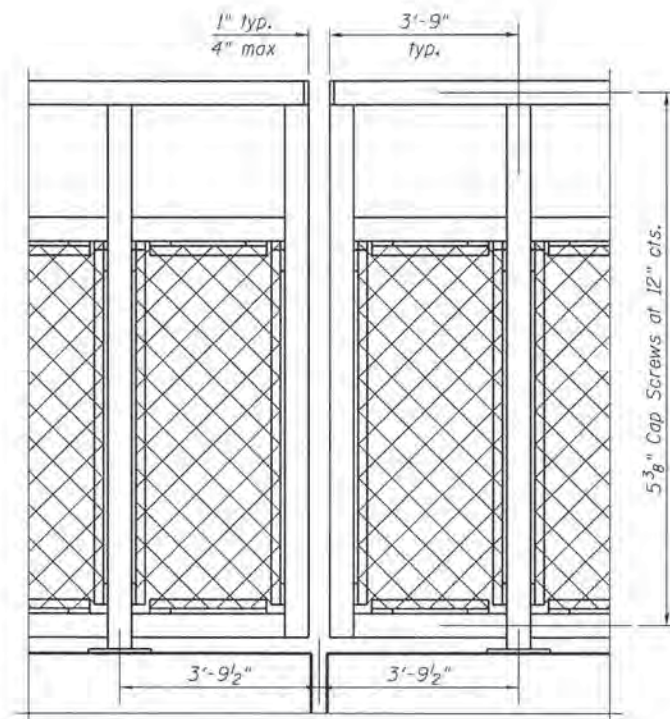
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F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 61C06				
[ILLINOIS] FED. AID PROJECT				

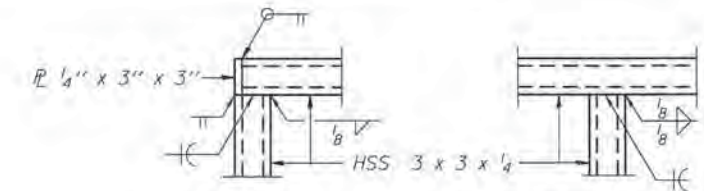




**BICYCLE RAILING ELEVATION**

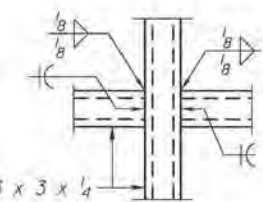


**BICYCLE RAILING ELEVATION AT EXPANSION JOINT**

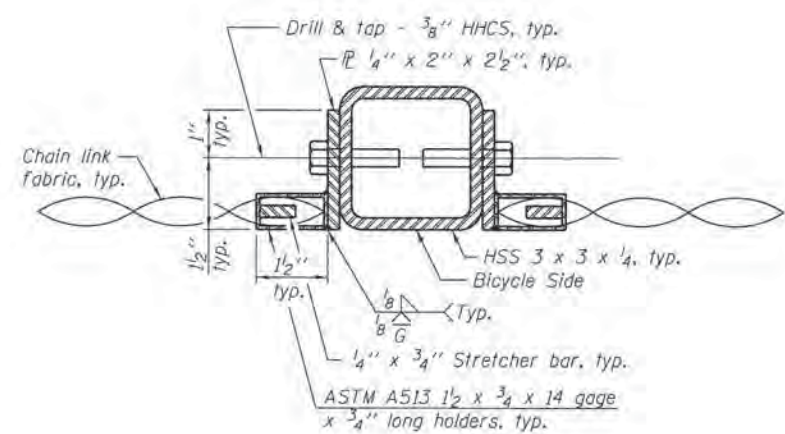


**DETAIL A**

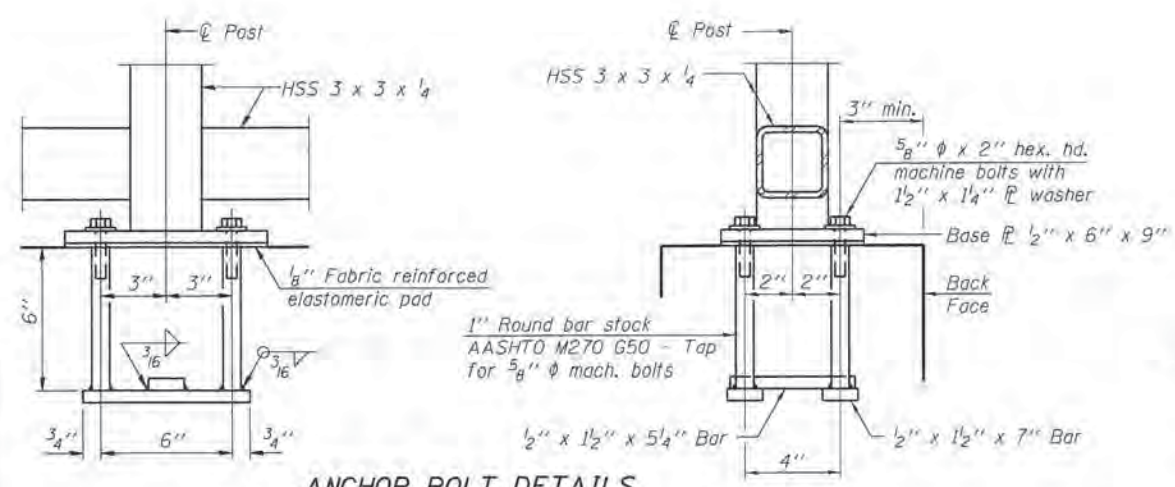
**DETAIL B**



**DETAIL C**

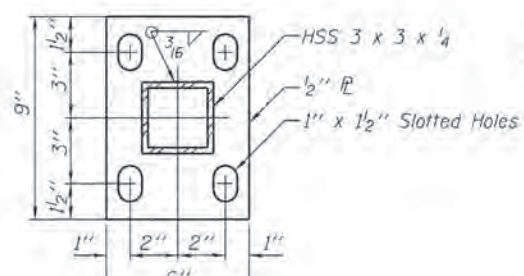


**SECTION A-A**

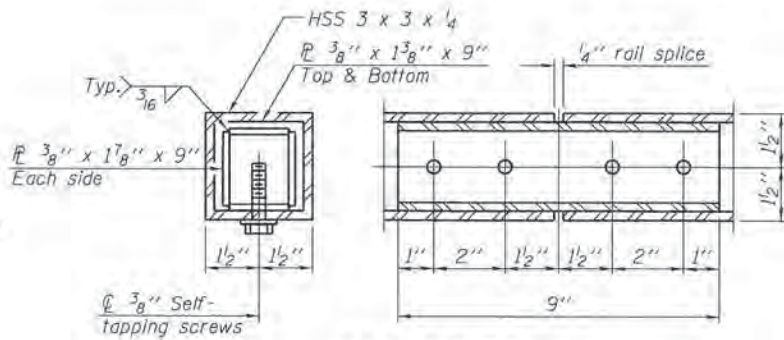


**ANCHOR BOLT DETAILS**

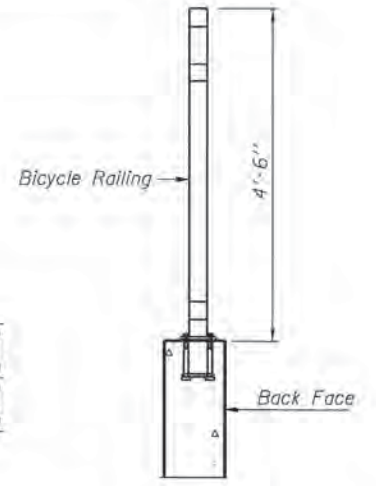
In lieu of the cast-in-place anchor device shown, the Contractor has the option of drilling and setting 5/8" φ anchor rods according to Article 509.06 of the Standard Specifications. Embedment shall be according to the manufacturer's specifications.



**BASE ℙ**



**RAIL SPLICE**



**SECTION THRU WALL**

Note:  
All post, railing, splices, anchor devices and bent plates shall be powder coated black.

COMPANY NAME: HRGreen.com  
PROJECT CONTACT: HRGreen.com  
DATE: 10/30/15  
FILE NAME: 10-00292-00-WR  
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PLOT SCALE = N.T.S.	CHECKED - RGD	REVISED -
PLOT DATE = 10/30/15	DRAWN - WJH	REVISED -
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STATE OF ILLINOIS	BICYCLE RAILING	F.A.U. RTE. 2531	SECTION 10-00292-00-WR	COUNTY DUPAGE	TOTAL SHEETS 229	SHEET NO. 146
DEPARTMENT OF TRANSPORTATION	EOLA ROAD	SHEET NO. RW1-4 OF RW1-5 SHEETS		CONTRACT NO. 61C06		
				ILLINOIS FED. AID PROJECT		

HRGreen.com	Illinois Professional Design Firm	194-010322
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PROJECT **Eola Road Improvements, 83rd to 87th Streets, Aurora, IL**

CLIENT **HR Green, Inc., 420 North Front Street, McHenry, IL**

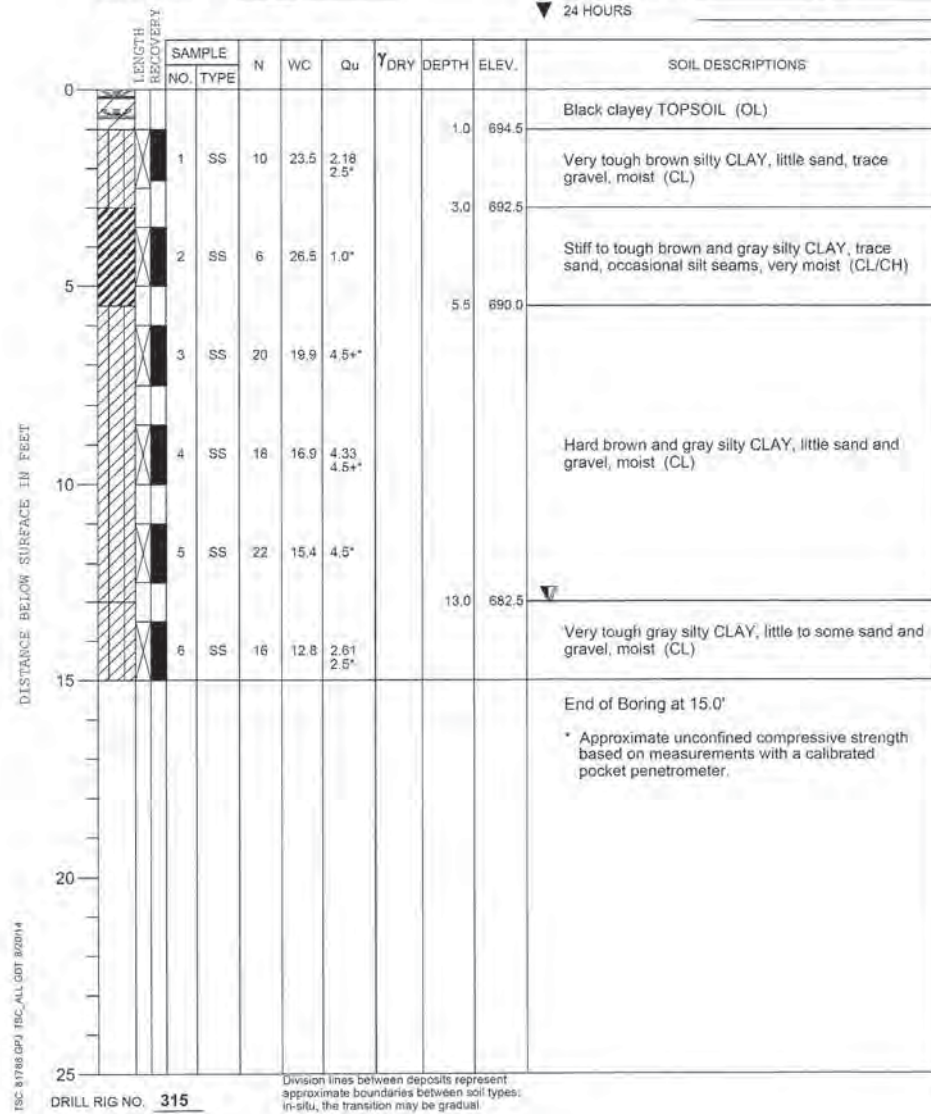
BORING **RW-1** DATE STARTED **7-9-14** DATE COMPLETED **7-9-14** JOB **L-81,788**

ELEVATIONS WATER LEVEL OBSERVATIONS

GROUND SURFACE **695.5** WHILE DRILLING **13.0'**

END OF BORING **680.5** AT END OF BORING **13.0'**

24 HOURS



PROJECT **Eola Road Improvements, 83rd to 87th Streets, Aurora, IL**

CLIENT **HR Green, Inc., 420 North Front Street, McHenry, IL**

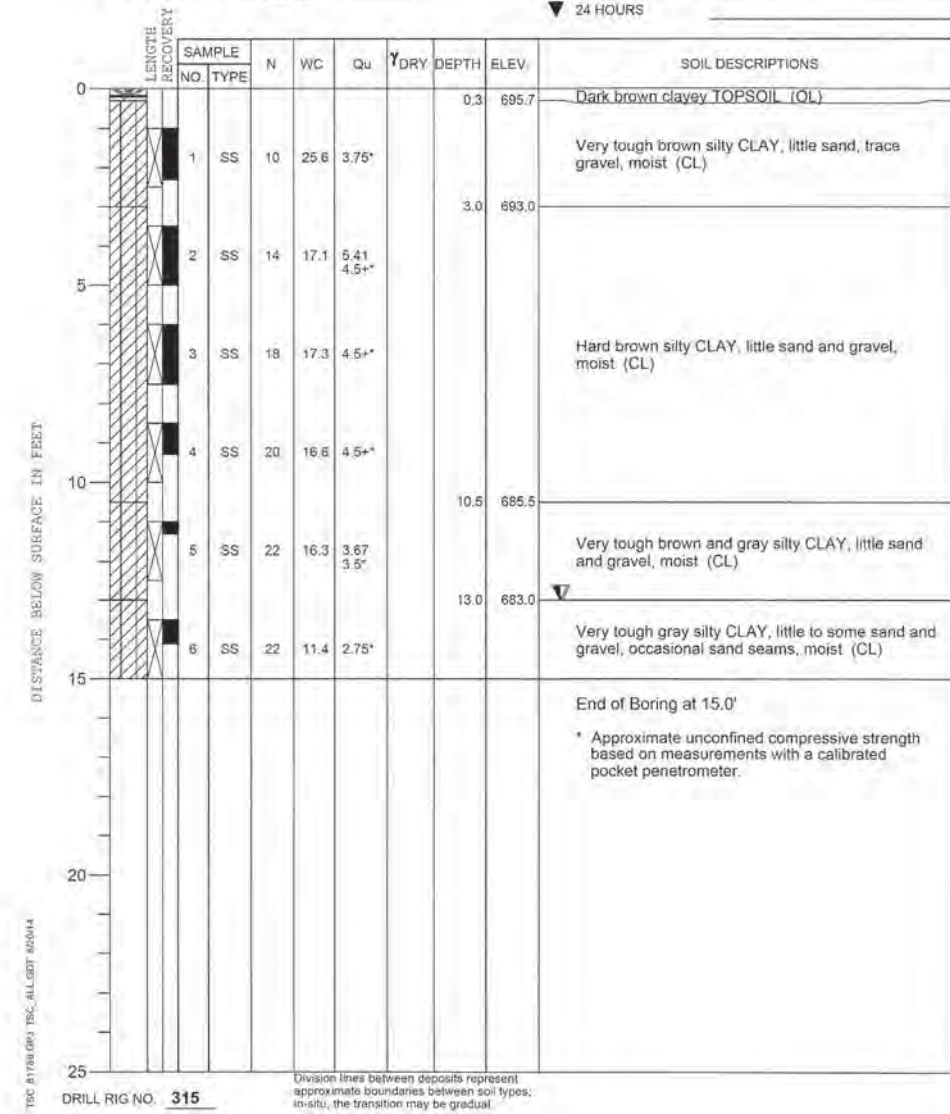
BORING **RW-2** DATE STARTED **7-9-14** DATE COMPLETED **7-9-14** JOB **L-81,788**

ELEVATIONS WATER LEVEL OBSERVATIONS

GROUND SURFACE **696.0** WHILE DRILLING **13.0'**

END OF BORING **681.0** AT END OF BORING **13.0'**

24 HOURS



COMPANY NAME: HRGreen.com  
 PROJECT CONTACT: #PROJECT\_CONTACT#  
 CLIENT: #CLIENT#  
 DATE PLOTTED: 10/30/2015 10:35:19 AM  
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PLLOT DATE: 10/30/2015	DRAWN: WJH	REVISED: -
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STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SOIL BORING LOGS  
EOLA ROAD

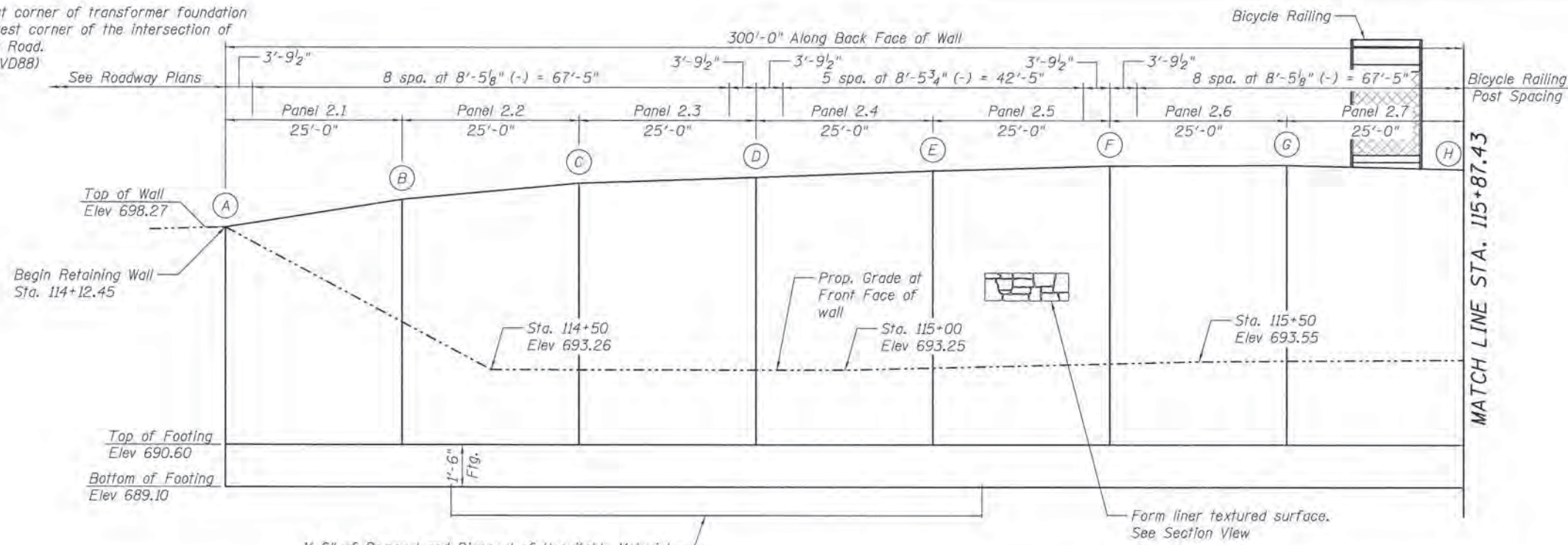
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F.A.J. RTE. 2531	SECTION 10-00292-00-WR	COUNTY DUPAGE	TOTAL SHEETS 229	SHEET NO. 147
CONTRACT NO. 61C06				
ILLINOIS FED. AID PROJECT				



Benchmark #3:  
Cut cross in south east corner of transformer foundation located on the north west corner of the intersection of Keating Drive and Eola Road. Elevation = 696.15 (NAVD88)

Existing Structure: None



1'-6" of Removal and Disposal of Unsuitable Material (145 CY - Length of wall) Extend removal 1' beyond edges of proposed footing. Backfill with Porous Granular Backfill. Depth and limits to be determined in the field by the Engineer. An assumed quantity of the above pay item has been included in the contract for bidding purposes.

**WALL 2 ELEVATION**  
(Looking at Back Face of Wall)

Joint	Station	Offset to Back Face	Type	T/Wall Elev.
A	114+12.45	46.62	-	698.27
B	114+37.44	46.37	CJ	699.26
C	114+62.44	46.12	CJ	699.84
D	114+87.44	45.88	EJ	700.05
E	115+12.44	45.63	CJ	700.28
F	115+37.44	45.39	EJ	700.46
G	115+62.44	45.14	CJ	700.48
H	115+87.43	44.89	CJ	700.33

CJ = Construction Joint, EJ = Expansion Joint

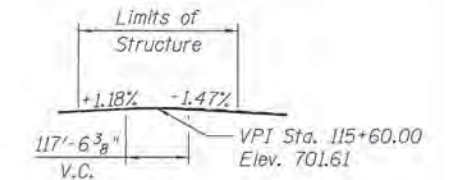
**INDEX OF SHEETS**

- RW2-1 General Plan and Elevation
- RW2-2 General Plan and Elevation
- RW2-3 Retaining Wall Details
- RW2-4 Retaining Wall Details
- RW2-5 Bicycle Railing
- RW2-6 Soil Boring Logs

**DESIGN SPECIFICATIONS**  
2014 AASHTO LRFD Bridge Design Specifications, 7th Edition

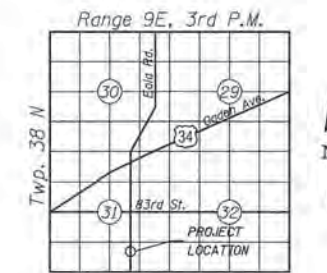
**DESIGN STRESSES**  
FIELD UNITS

f'c = 3,500 psi  
fy = 60,000 psi (Reinforcement)



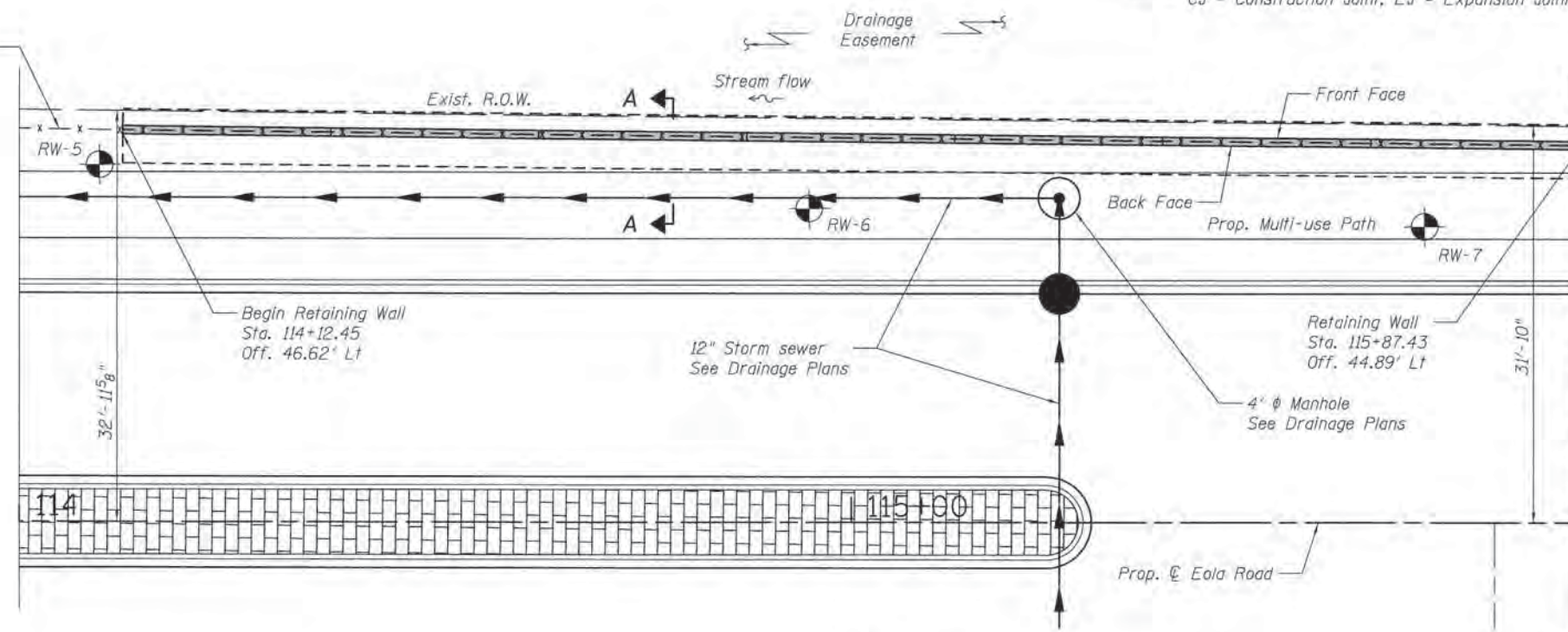
**PROFILE GRADE**

Legend  
⊕ = Soil Boring Location



**LOCATION SKETCH**

See Roadway Plans for Bicycle Railing not attached to wall.



**WALL 2 PLAN**

To the best of my knowledge, information and belief, this retaining wall design is structurally adequate for the design loading shown on the plans. The design is an economical one for the style of structure and complies with the requirements of the current "AASHTO LRFD Bridge Design Specification".



Structural Engineer Expires: 11/30/2016  
HRGreen

**GENERAL PLAN AND ELEVATION**  
**EOLA ROAD RETAINING WALL #2**  
**SECTION NO. 10-00292-00-WR**  
**F.A.U. RTE 2531**  
**DUPAGE COUNTY**  
**STA. 114+12.45 TO STA. 117+10.99**

COMPANY NAME: HRGreen  
PROJECT CONTACT: HRGreen  
CLIENT: HRGreen  
DATE PLOTTED: 10/29/2015 5:06:07 PM  
FILE NAME: 10-00292-00-WR-10-002-1.dgn  
PLOT DRIVER: J:\pdr\_low.dwt  
PEN TABLE: HRGreen.tbl



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PLOT DATE = 10/29/2015	DRAWN - WJH	REVISED -
	CHECKED - 10/29/15	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SHEET NO. RW2-1 OF RW2-6 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2531	10-00292-00-WR	DUPAGE	229	148
CONTRACT NO. 61C06			ILLINOIS FED. AID PROJECT	



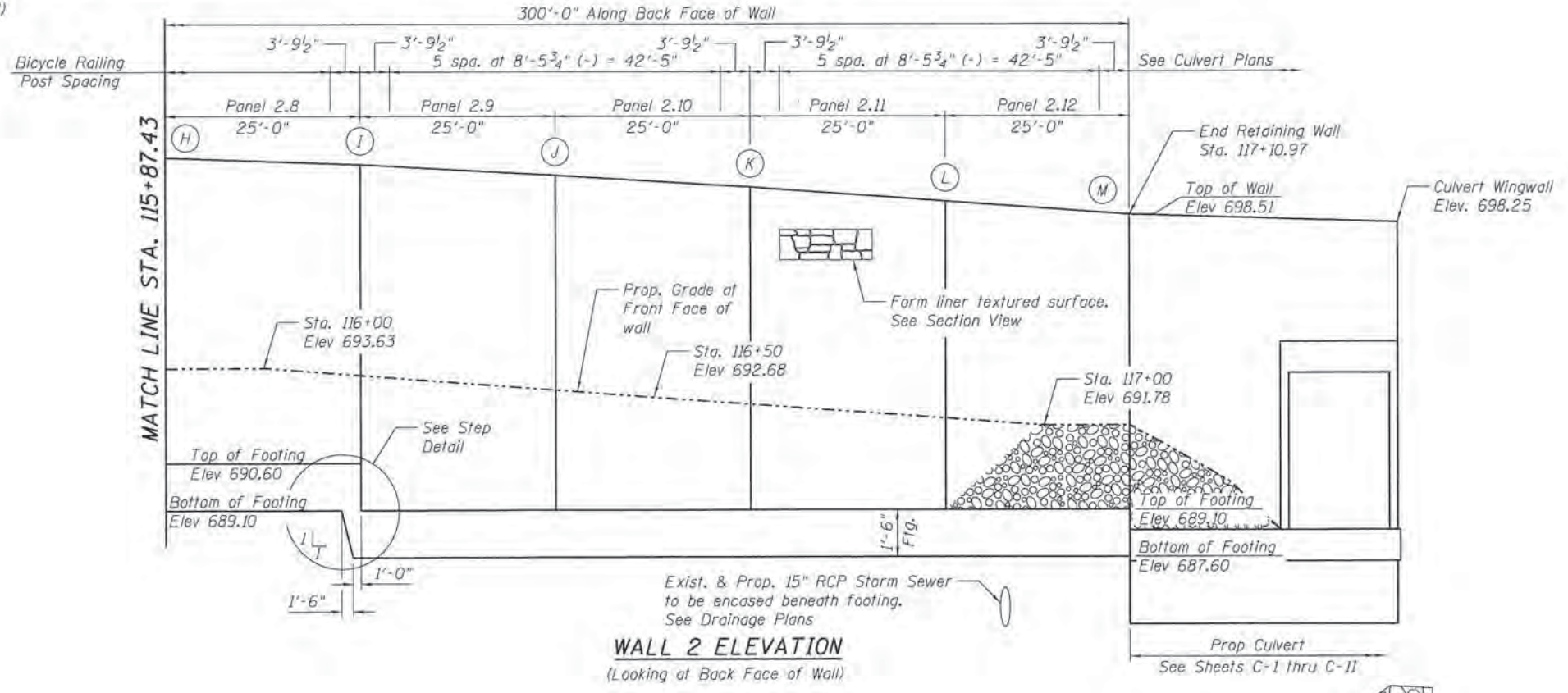
Benchmark #3:  
 Cut cross in south east corner of transformer foundation  
 located on the north west corner of the intersection of  
 Keating Drive and Eola Road.  
 Elevation = 696.15 (NAVD88)

Existing Structure: None

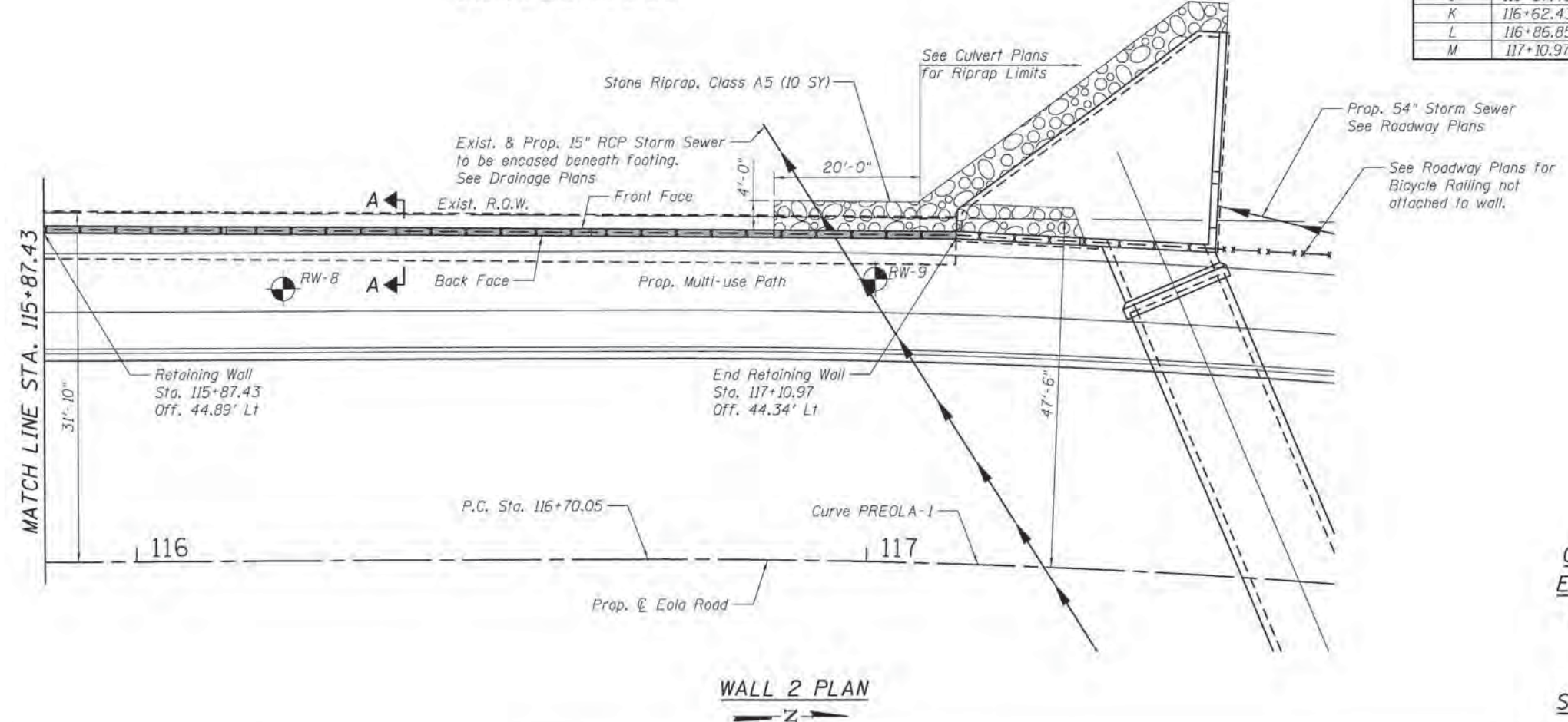
**CURVE DATA**

Prop. Curve PREOLA-1  
 $\Delta = 19^\circ 41' 38''$  (RT)  
 $D = 4^\circ 29' 38''$   
 $R = 1,275.00'$   
 $T = 221.31'$   
 $L = 438.24'$   
 $E = 19.06'$   
 $e = N/A$   
 P.C. Sta. = 116+70.05  
 N: 1843059.28  
 E: 1005688.97  
 P.I. Sta. = 118+91.35  
 N: 1843280.57  
 E: 1005686.68  
 P.T. Sta. = 121+08.29  
 N: 1843489.69  
 E: 1005759.11

Legend  
 ⬤ = Soil Boring Location



Joint	Station	Offset to Back Face	Type	T/Wall Elev.
H	115+87.43	44.89	CJ	700.33
I	116+12.43	44.65	EJ	700.11
J	116+37.43	44.40	CJ	699.76
K	116+62.43	44.15	EJ	699.38
L	116+86.85	44.02	CJ	698.93
M	117+10.97	44.34	EJ	698.51



**GENERAL PLAN AND ELEVATION  
 EOLA ROAD RETAINING WALL #2  
 SECTION NO. 10-00292-00-WR  
 F.A.U. RTE 2531  
 DUPAGE COUNTY  
 STA. 114+12.45 TO STA. 117+10.99**

COMPANY NAME: HRGreen.com  
 PROJECT CONTACT: dstericz  
 CLIENT: HRGreen.com  
 DATE PLOTTED: 10/30/2015 10:55:41 AM  
 PLOT DIBNER: 10/30/2015 10:55:41 AM  
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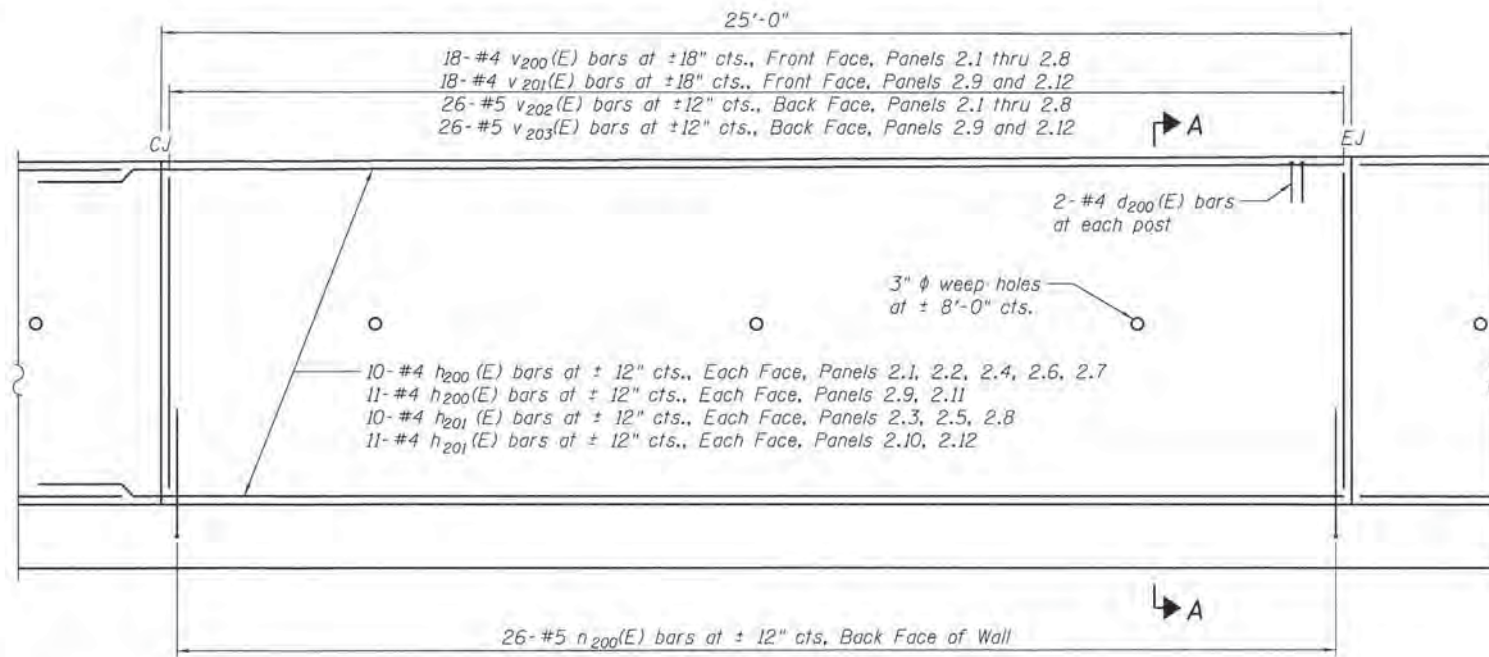
HRGreen.com Illinois Professional Design Firm #184-001322	USER NAME = dstericz	DESIGNED - SEC	REVISED -
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	PLOT DATE = 10/30/2015	DRAWN - WJH	REVISED -
		CHECKED - 10/30/15	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

SHEET NO. RW2-2 OF RW2-6 SHEETS

F.A.U. RTE. 2531	SECTION 10-00292-00-WR	COUNTY DUPAGE	TOTAL SHEETS 229	SHEET NO. 149
				CONTRACT NO. 61C06
ILLINOIS FED. AID PROJECT				



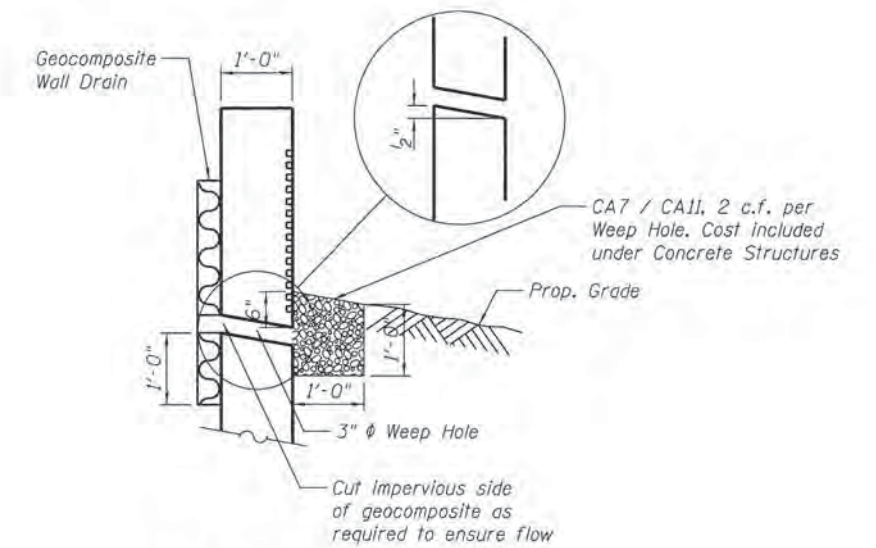


**MINIMUM BAR LAP**

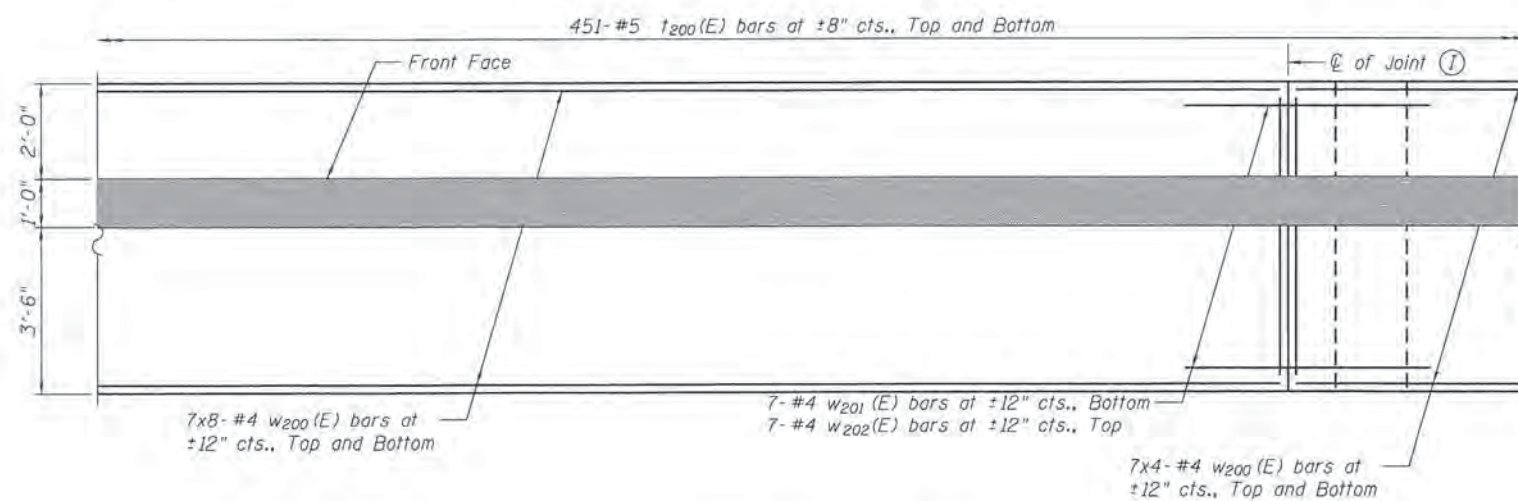
#4 bar = 2'-0"  
 #5 bar = 3'-3"  
 (Unless noted otherwise)

**TYPICAL WALL SECTION**

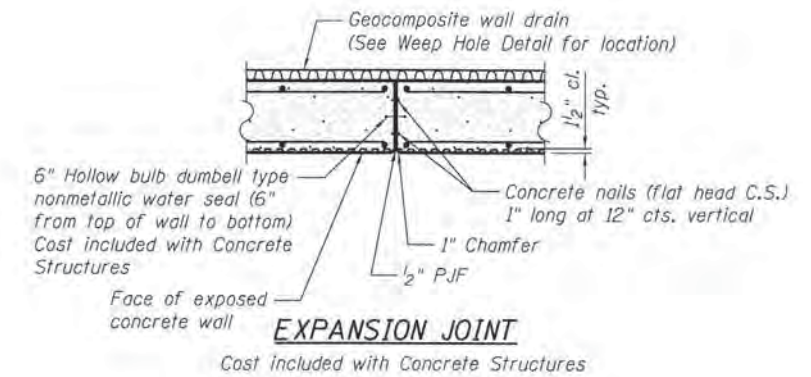
(Looking at Front Face)



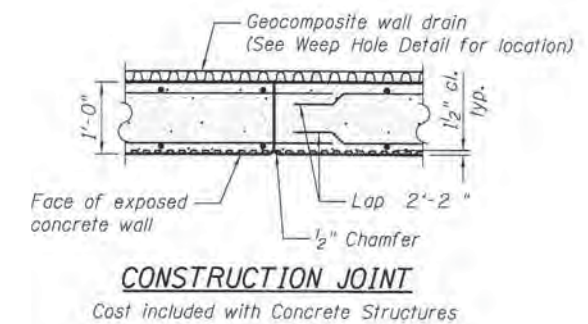
**WEEP HOLE DRAIN DETAIL**



**TYPICAL FOOTING PLAN**



**EXPANSION JOINT**



**CONSTRUCTION JOINT**

COMPANY NAME: HRGreen.com  
 PROJECT CONTACT: HRGreen.com  
 CLIENT: HRGreen.com  
 DATE PLOTTED: 10/30/2015 10:35:44 AM  
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PLLOT DATE = 10/30/2015	DRAWN - WJH	REVISED -
	CHECKED - 10/30/15	REVISED -

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

RETAINING WALL DETAILS  
 EOLA ROAD  
 SHEET NO. RW2-3 OF RW2-6 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 61C06				
ILLINOIS FED. AID PROJECT				

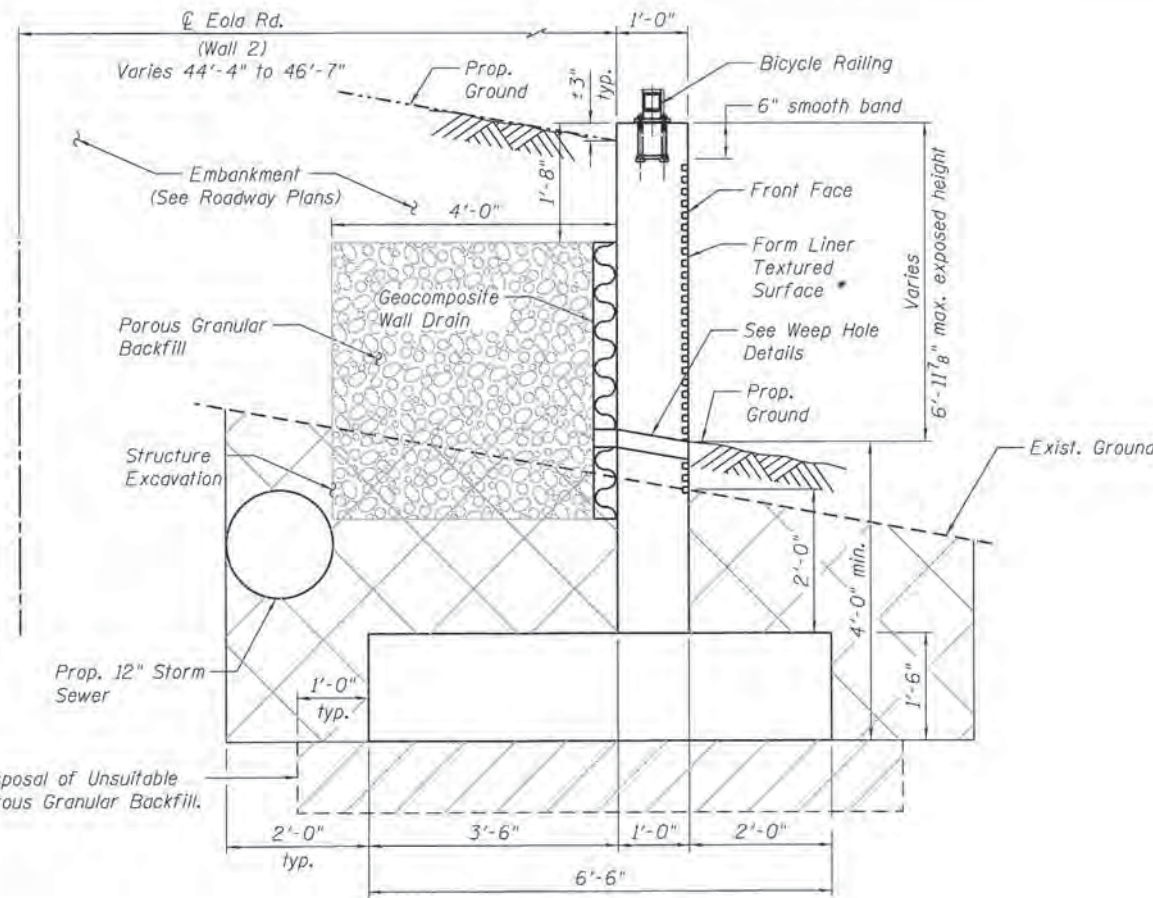


**BILL OF MATERIALS**

Bar	No.	Size	Length	Shape
d <sub>200</sub> (E)	72	#4	3'-6"	┌
h <sub>200</sub> (E)	144	#4	27'-2"	—
h <sub>201</sub> (E)	104	#4	24'-8"	—
l <sub>200</sub> (E)	312	#5	5'-6"	L
v <sub>200</sub> (E)	144	#4	9'-4"	—
v <sub>201</sub> (E)	72	#4	10'-3"	—
v <sub>202</sub> (E)	208	#5	9'-4"	—
v <sub>203</sub> (E)	104	#5	10'-3"	—
t <sub>200</sub> (E)	902	#5	6'-2"	—
w <sub>200</sub> (E)	168	#4	26'-9"	—
w <sub>201</sub> (E)	7	#4	7'-4"	└
w <sub>202</sub> (E)	7	#4	6'-8"	└
Removal and Disposal of Unsuitable Material		Cu. Yd.	145	
Porous Granular Backfill		Cu. Yd.	430	
Stone Riprap, Class A5		Sq. Yd.	10	
Structure Excavation		Cu. Yd.	760	
Concrete Structures		Cu. Yd.	216.5	
Form Liner Textured Surface		Sq. Ft.	2110	
Reinforcement Bars, Epoxy Coated		Pound	19,680	
Bicycle Railing		Foot	300	
Geocomposite Wall Drain		Sq. Yd.	215	

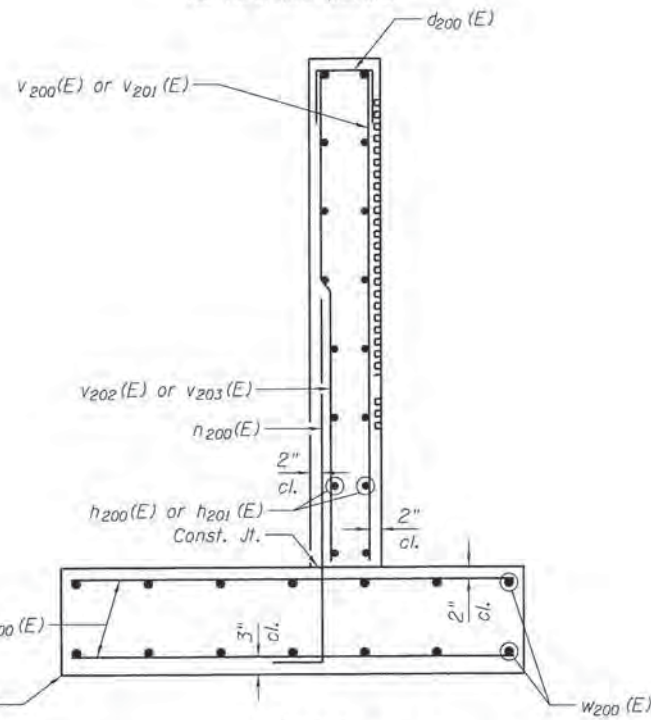
Reinforcement bars designated (E) shall be epoxy coated

Bars indicated thus 1x2-#5 etc. indicate 1 line of bars with 2 lengths per line.

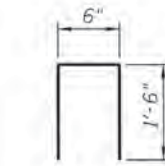


**SECTION A-A**

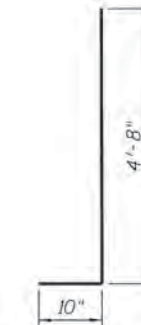
• See Special Provisions for form liner pattern



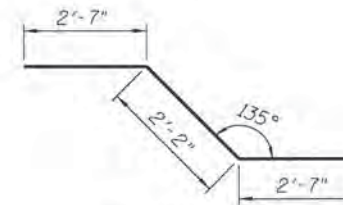
**SECTION A-A SHOWING REBAR**



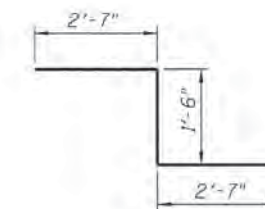
**d<sub>200</sub>(E) BAR**



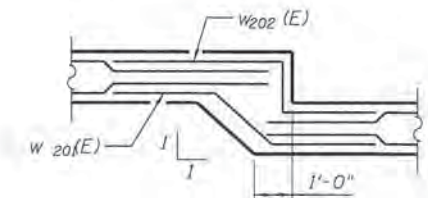
**h<sub>200</sub>(E) BAR**



**w<sub>201</sub>(E) BAR**



**w<sub>202</sub>(E) BAR**



**STEP DETAIL**

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 PROJECT CONTACT: Illinois Professional Design Firm  
 CLIENT: #184-001322  
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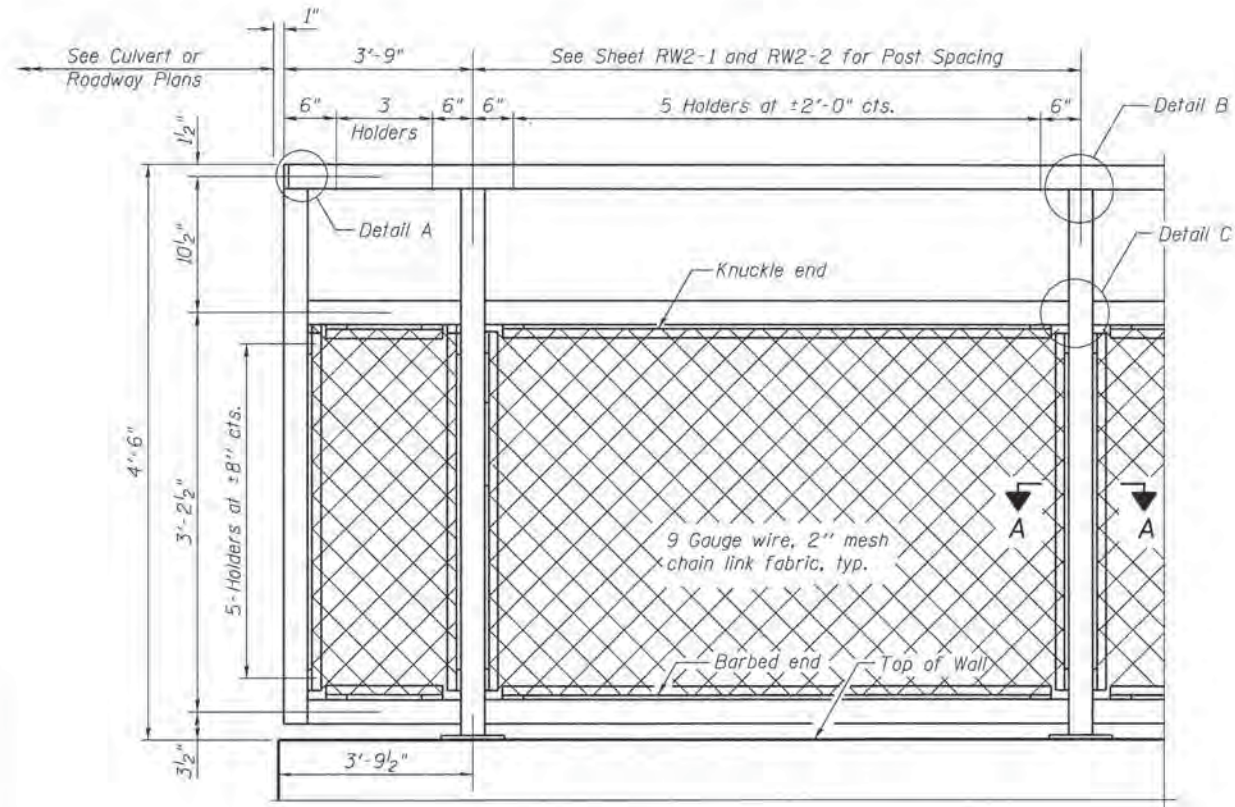
**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**RETAINING WALL DETAILS  
 EOLA ROAD**

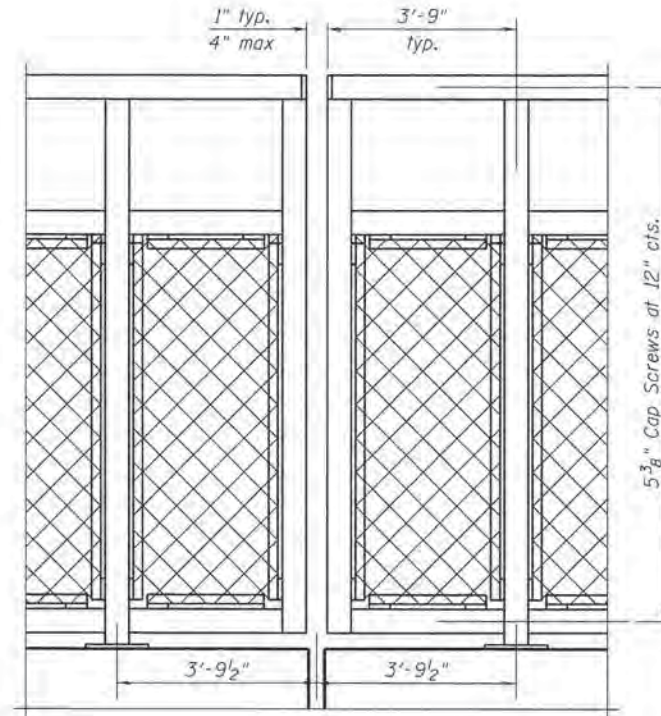
SHEET NO. RW2-4 OF RW2-6 SHEETS

F.A.U. RTE. 2531	SECTION 10-00292-00-WR	COUNTY DUPAGE	TOTAL SHEETS 229	SHEET NO. 151
			CONTRACT NO. 61C06	
ILLINOIS FED. AID PROJECT				

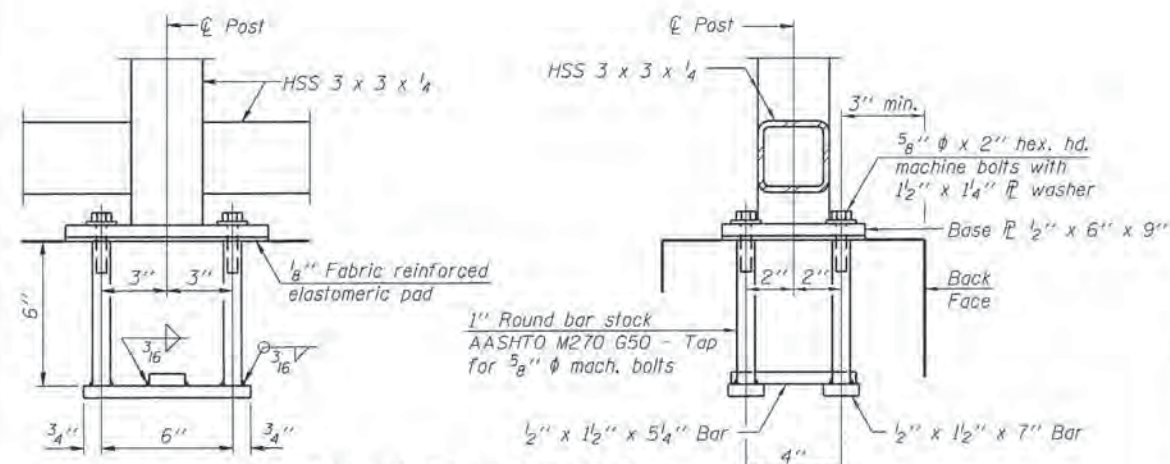
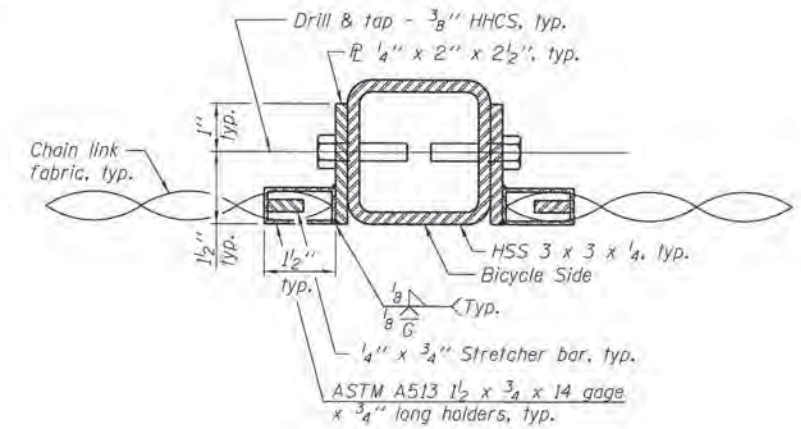
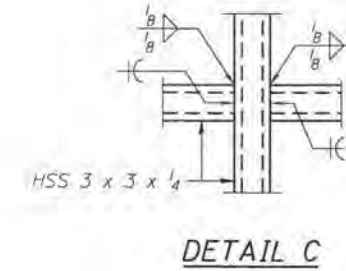
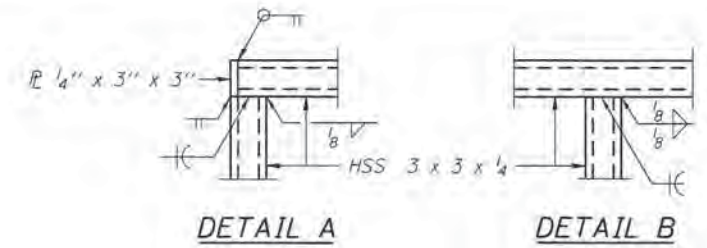




BICYCLE RAILING ELEVATION

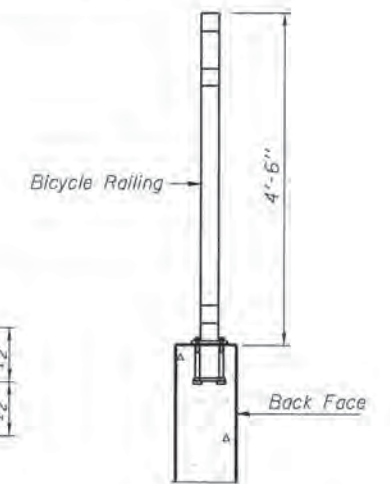
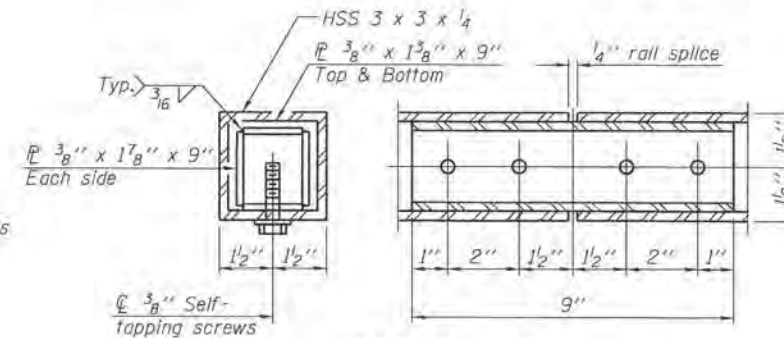
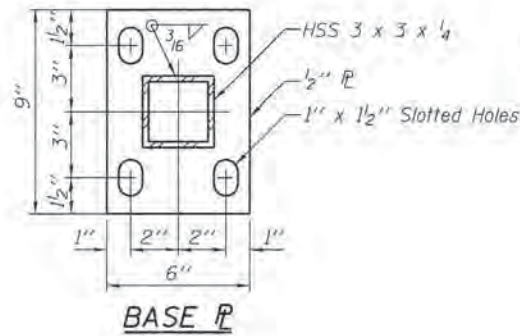


BICYCLE RAILING ELEVATION AT EXPANSION JOINT



ANCHOR BOLT DETAILS

In lieu of the cast-in-place anchor device shown, the Contractor has the option of drilling and setting 5/8" ϕ anchor rods according to Article 509.06 of the Standard Specifications. Embedment shall be according to the manufacturer's specifications.



Note:  
All post, railing, splices, anchor devices and bent plates shall be powder coated black.

(10'-0" Maximum Post Spacing)

COMPANY NAME: HRGreen.com  
PROJECT CONTACT: [Redacted]  
CLIENT: [Redacted]  
DATE PLOTTED: 10/30/2015 10:30:45 AM  
FILE NAME: 86020206-001-RW2-5-01-Roadway-Railings  
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PLOT TABLE: [Redacted]



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STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

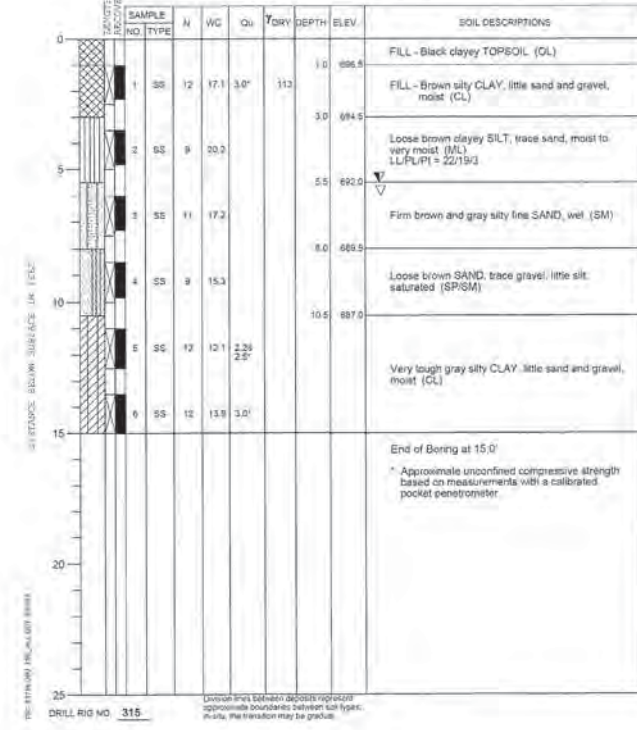
BICYCLE RAILING  
EOLA ROAD

SHEET NO. RW2-5 OF RW2-6 SHEETS

F.A.U. RTE. 2531	SECTION 10-00292-00-WR	COUNTY DUPAGE	TOTAL SHEETS 229	SHEET NO. 152
			CONTRACT NO. 61C06	
ILLINOIS FED. AID PROJECT				

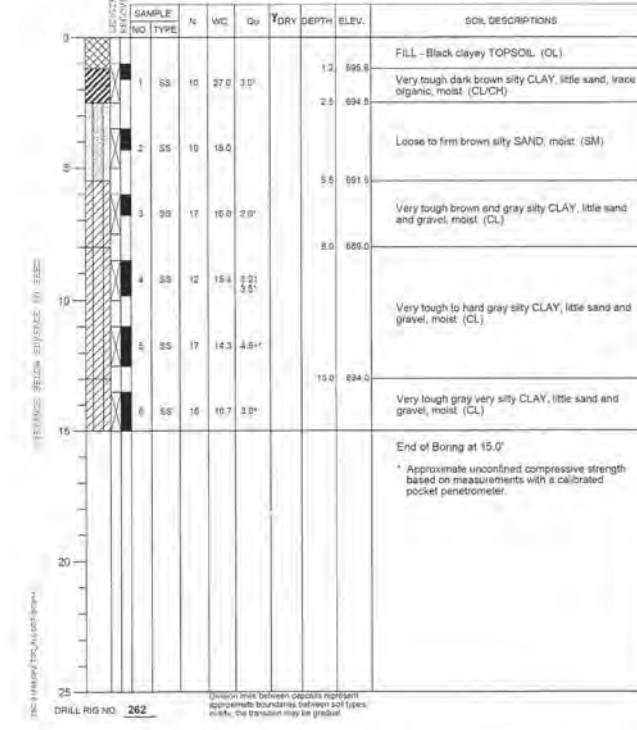


PROJECT **Eola Road Improvements, 83rd to 87th Streets, Aurora, IL**  
 CLIENT **HR Green, Inc., 420 North Front Street, McHenry, IL**  
 BORING **RW-5** DATE STARTED **7-9-14** DATE COMPLETED **7-9-14** JOB **L-81,788**  
 ELEVATIONS WATER LEVEL OBSERVATIONS  
 GROUND SURFACE **697.5** WHILE DRILLING **5.5'**  
 END OF BORING **652.5** AT END OF BORING **6.0'**  
 24 HOURS



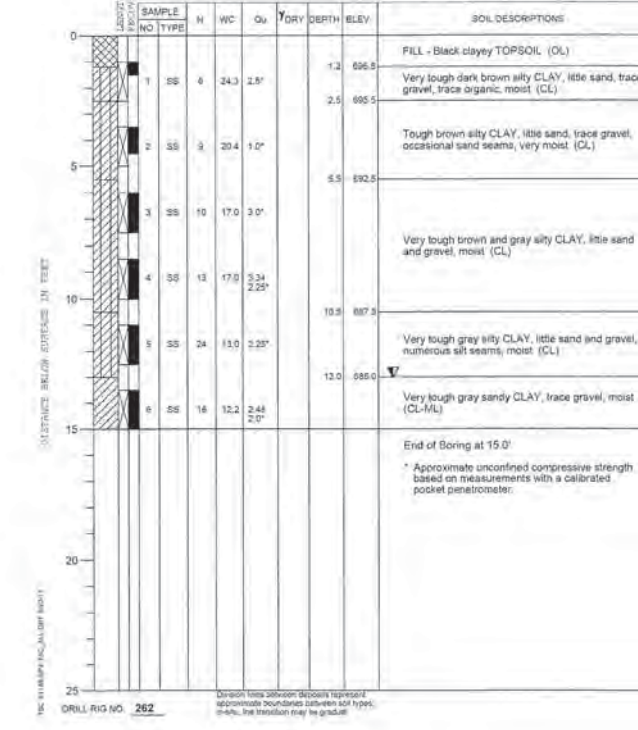
DRILL RIG NO. **315**  
 Division lines between deposits represent approximate boundaries between soil types. In-situ, the transition may be gradual.

PROJECT **Eola Road Improvements, 83rd to 87th Streets, Aurora, IL**  
 CLIENT **HR Green, Inc., 420 North Front Street, McHenry, IL**  
 BORING **RW-6** DATE STARTED **7-9-14** DATE COMPLETED **7-9-14** JOB **L-81,788**  
 ELEVATIONS WATER LEVEL OBSERVATIONS  
 GROUND SURFACE **697.0** WHILE DRILLING **Dry**  
 END OF BORING **682.0** AT END OF BORING **Dry**  
 24 HOURS



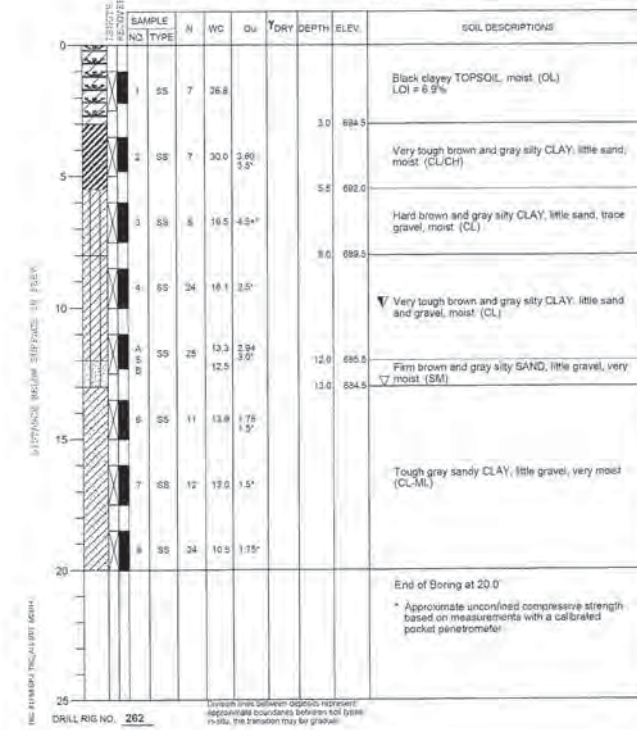
DRILL RIG NO. **262**  
 Division lines between deposits represent approximate boundaries between soil types. In-situ, the transition may be gradual.

PROJECT **Eola Road Improvements, 83rd to 87th Streets, Aurora, IL**  
 CLIENT **HR Green, Inc., 420 North Front Street, McHenry, IL**  
 BORING **RW-7** DATE STARTED **7-9-14** DATE COMPLETED **7-9-14** JOB **L-81,788**  
 ELEVATIONS WATER LEVEL OBSERVATIONS  
 GROUND SURFACE **698.0** WHILE DRILLING **13.0'**  
 END OF BORING **683.0** AT END OF BORING **13.0'**  
 24 HOURS



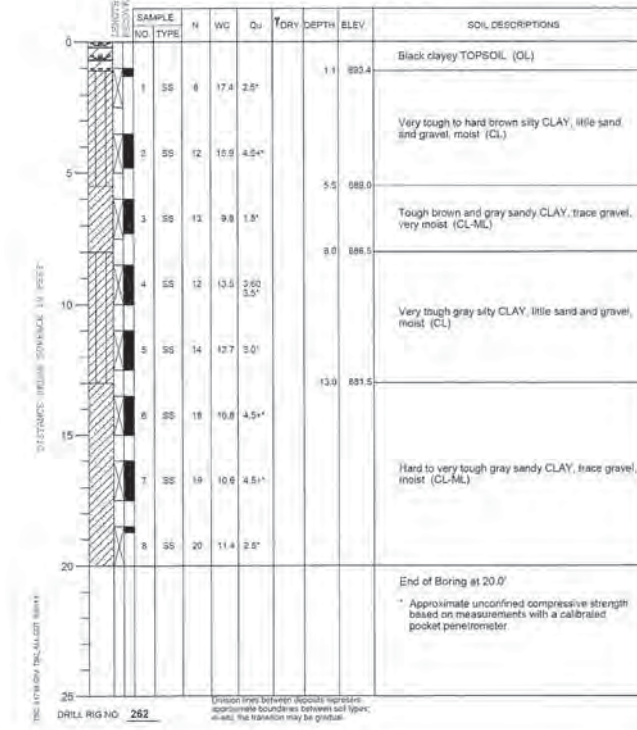
DRILL RIG NO. **262**  
 Division lines between deposits represent approximate boundaries between soil types. In-situ, the transition may be gradual.

PROJECT **Eola Road Improvements, 83rd to 87th Streets, Aurora, IL**  
 CLIENT **HR Green, Inc., 420 North Front Street, McHenry, IL**  
 BORING **RW-8** DATE STARTED **7-9-14** DATE COMPLETED **7-9-14** JOB **L-81,788**  
 ELEVATIONS WATER LEVEL OBSERVATIONS  
 GROUND SURFACE **697.5** WHILE DRILLING **10.0'**  
 END OF BORING **677.5** AT END OF BORING **13.0'**  
 24 HOURS



DRILL RIG NO. **262**  
 Division lines between deposits represent approximate boundaries between soil types. In-situ, the transition may be gradual.

PROJECT **Eola Road Improvements, 83rd to 87th Streets, Aurora, IL**  
 CLIENT **HR Green, Inc., 420 North Front Street, McHenry, IL**  
 BORING **RW-9** DATE STARTED **7-9-14** DATE COMPLETED **7-9-14** JOB **L-81,788**  
 ELEVATIONS WATER LEVEL OBSERVATIONS  
 GROUND SURFACE **694.5** WHILE DRILLING **Dry**  
 END OF BORING **674.5** AT END OF BORING **Dry**  
 24 HOURS



DRILL RIG NO. **262**  
 Division lines between deposits represent approximate boundaries between soil types. In-situ, the transition may be gradual.

COMPANY NAME: HRGreen.com  
 PROJECT CONTACT: HRGreen.com  
 CLIENT: HR Green, Inc.  
 FILE NAME: 8610384.dwg  
 PLOT DRIVER: HRGreen  
 PEN TABLE: HRGreen



USER NAME = dstanca	DESIGNED - SEC	REVISED -
PLOT SCALE = N.T.S.	CHECKED - RGD	REVISED -
PLOT DATE = 10/30/2015	DRAWN - WJH	REVISED -
	CHECKED - 10/30/15	REVISED -

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

SOIL BORING LOGS  
 EOLA ROAD

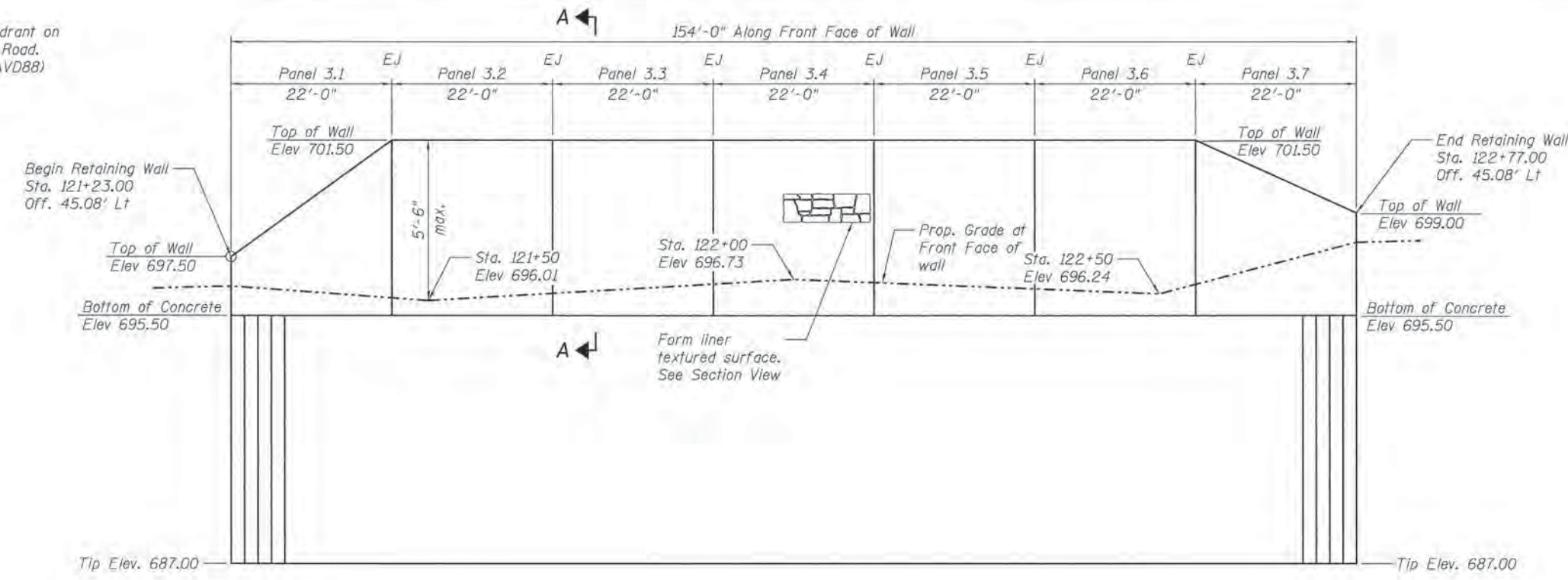
SHEET NO. RW2-6 OF RW2-6 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2531	10-00292-00-WR	DUPAGE	229	153
CONTRACT NO. 61C06				
ILLINOIS FED. AID PROJECT				



Benchmark #2:  
SW tag bolt on fire hydrant on  
the west side of Eola Road.  
Elevation = 696.08 (NAVD88)

Existing Structure: None



**WALL 3 ELEVATION**

(Looking at Front Face of wall)

**INDEX OF SHEETS**

RW3-1	General Plan and Elevation
RW3-2	Retaining Wall Details
RW3-3	Soil Boring Logs

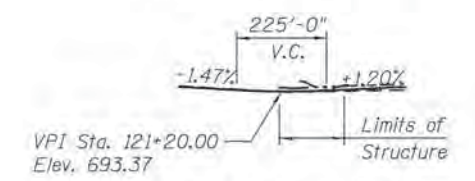
**DESIGN SPECIFICATIONS**

2014 AASHTO LRFD Bridge Design Specifications, 7th Edition

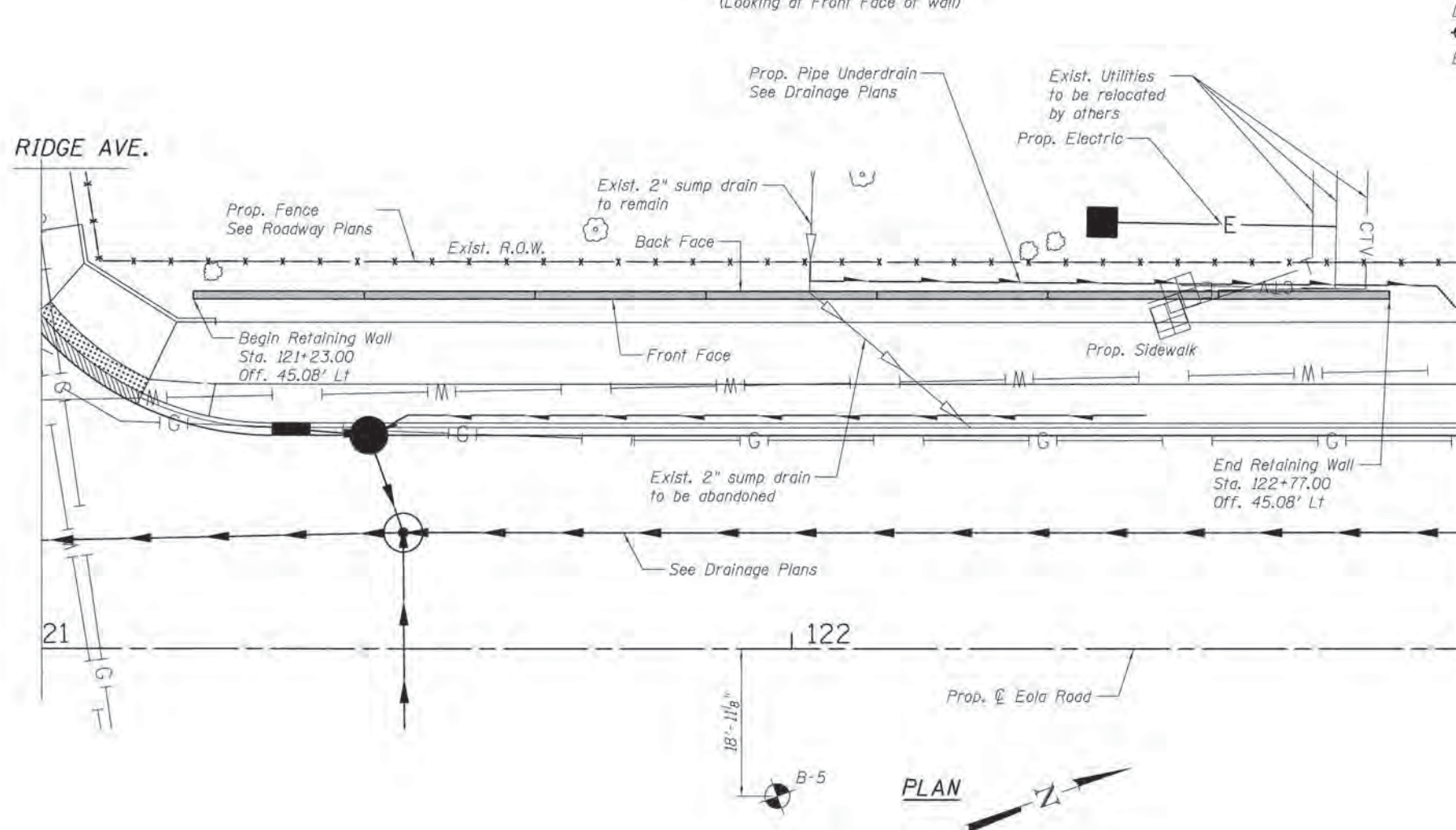
**DESIGN STRESSES**

**FIELD UNITS**

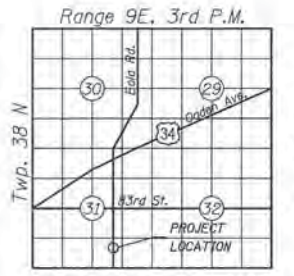
- $f'_c = 3,500$  psi
- $f_y = 60,000$  psi (Reinforcement)
- $f_y = 38,000$  psi (Steel Sheet Pile)
- $f_y = 36,000$  psi (Steel Plate)



**PROFILE GRADE**



- Legend
- ◆ = Soil Boring Location
  - EJ = Expansion Joint



**LOCATION SKETCH**

To the best of my knowledge, information and belief, this retaining wall design is structurally adequate for the design loading shown on the plans. The design is an economical one for the style of structure and complies with the requirements of the current "AASHTO LRFD Bridge Design Specification".



Structural Engineer Expires: 11/30/2016  
HRGreen

**GENERAL PLAN AND ELEVATION**  
**EOLA ROAD RETAINING WALL #3**  
**SECTION NO. 10-00292-00-WR**  
**F.A.U. RTE 2531**  
**DUPAGE COUNTY**  
**STA. 121+23.00 TO STA. 122+77.00**

COMPANY NAME: HRGreen  
PROJECT CONTACT: #PROJECT\_CONTACT#  
CLIENT: #CLIENT#  
DATE PLOTTED: 10/29/2015 5:59 PM  
FILE NAME: 16130384-dht-ST-RET-wall03-1.dgn  
PLOT DRIVER: JL\_pof\_bw.plt  
PEN TABLE: proTab04.tbl



USER NAME = dstanoz	DESIGNED - SEC	REVISED -
	CHECKED - RGD	REVISED -
PLOT SCALE = N.T.S.	DRAWN - WJH	REVISED -
PLOT DATE = 10/29/2015	CHECKED - 10/29/15	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SHEET NO. RW3-1 OF RW3-3 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2531	10-00292-00-WR	DUPAGE	229	154
CONTRACT NO. 61C06				
ILLINOIS FED. AID PROJECT				

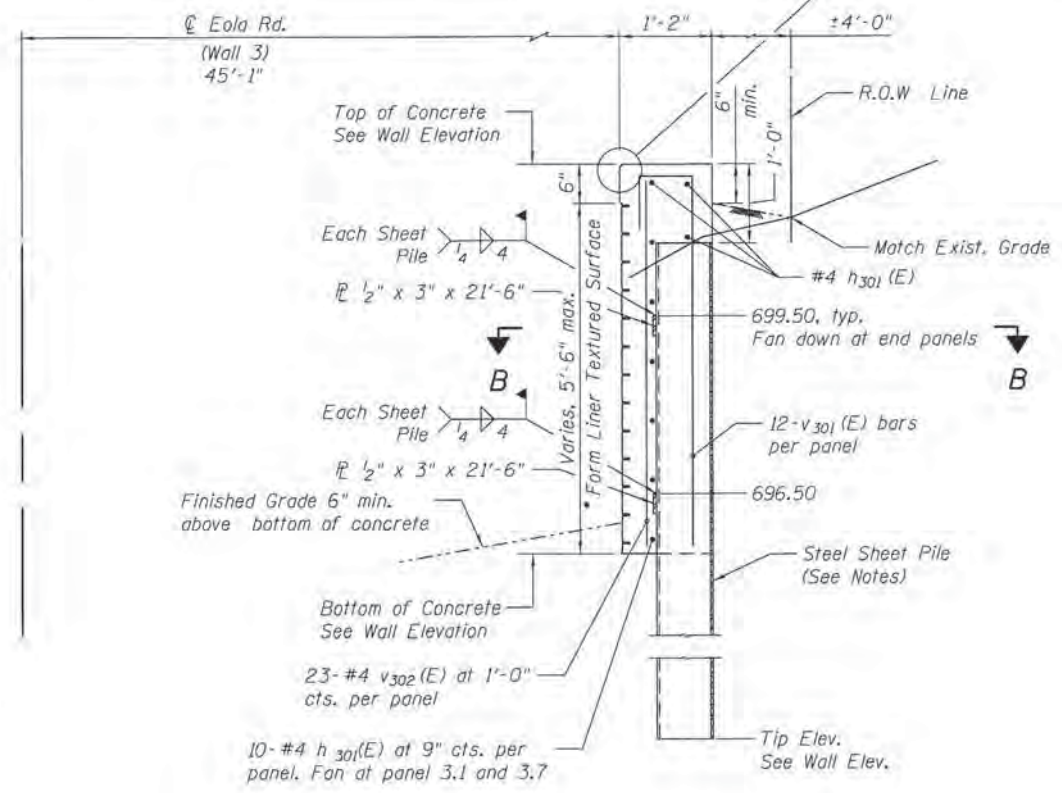
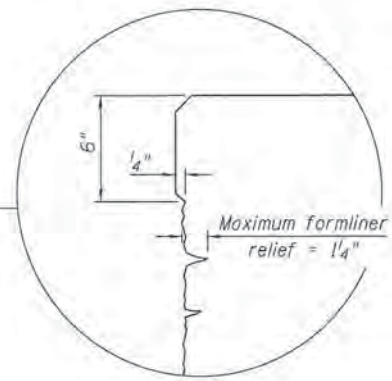


**BILL OF MATERIAL**

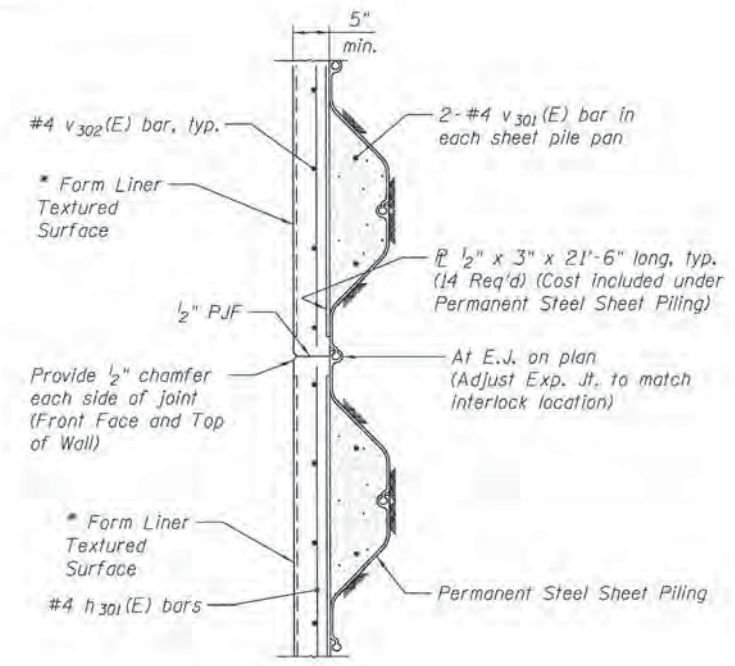
Bar	No.	Size	Length	Shape
h301(E)	70	#4	21'-8"	—
v301(E)	84	#4	7'-0"	└
v302(E)	161	#4	5'-8"	—
Concrete Structures			Cu. Yd.	27.1
Form Liner Textured Surface			Sq. Ft.	776
Reinforcement Bars, Epoxy Coated			Pound	2,020
Permanent Steel Sheet Piling			Sq. Ft.	2,008

**PERMANENT STEEL SHEET PILE DATA**

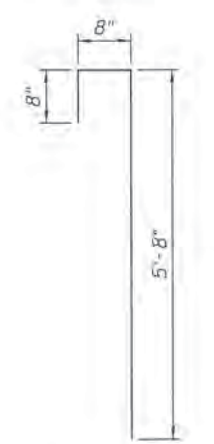
Min. Section Modulus	=	8.00 in <sup>3</sup> /ft
Min. Thickness	=	1/4"
Max Section Height	=	9"
Min. Moment of Inertia	=	40.00 in <sup>4</sup> /ft



**SECTION A-A**



**SECTION B-B**



**BAR v301(E)**

\* See Special Provisions for form liner pattern

**NOTES:**

- Cut v301(E) and v302(E) bars in field to maintain clear cover from edge of concrete.
- Station and offsets based on proposed PGL for Eola Road.
- Acceptable permanent steel sheet piles include: Sz-15, Z65, PZ-22.
- Joint spacing based on acceptable steel sheet pile widths.
- See Special Provisions for Permanent Steel Sheet Piling (LRFD).
- Reinforced bars designated (E) shall be epoxy coated.

COMPANY NAME: HRGreen  
 PROJECT CONTACT: [unreadable]  
 CLIENT: [unreadable]  
 DATE: 10/30/2015  
 FILE NAME: [unreadable]  
 PLOT DRIVER: [unreadable]  
 PEN TABLE: [unreadable]

HRGreen.com Illinois Professional Design Firm # 184-001322	USER NAME = dstonez DESIGNED - SEC CHECKED - RGD DRAWN - WJH PLOT DATE = 10/30/2015	REVISED - REVISED - REVISED - REVISED -	<b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b>	<b>RETAINING WALL DETAILS</b> <b>EOLA ROAD</b>	F.A.I. R.T.E. = 2531	SECTION = 10-00292-00-WR	COUNTY = DUPAGE	TOTAL SHEETS = 229	SHEET NO. = 155
	SHEET NO. RW3-2 OF RW3-3 SHEETS					CONTRACT NO. 61C06			



PROJECT **Eola Road Improvements, 83rd to 87th Streets, Aurora, IL**

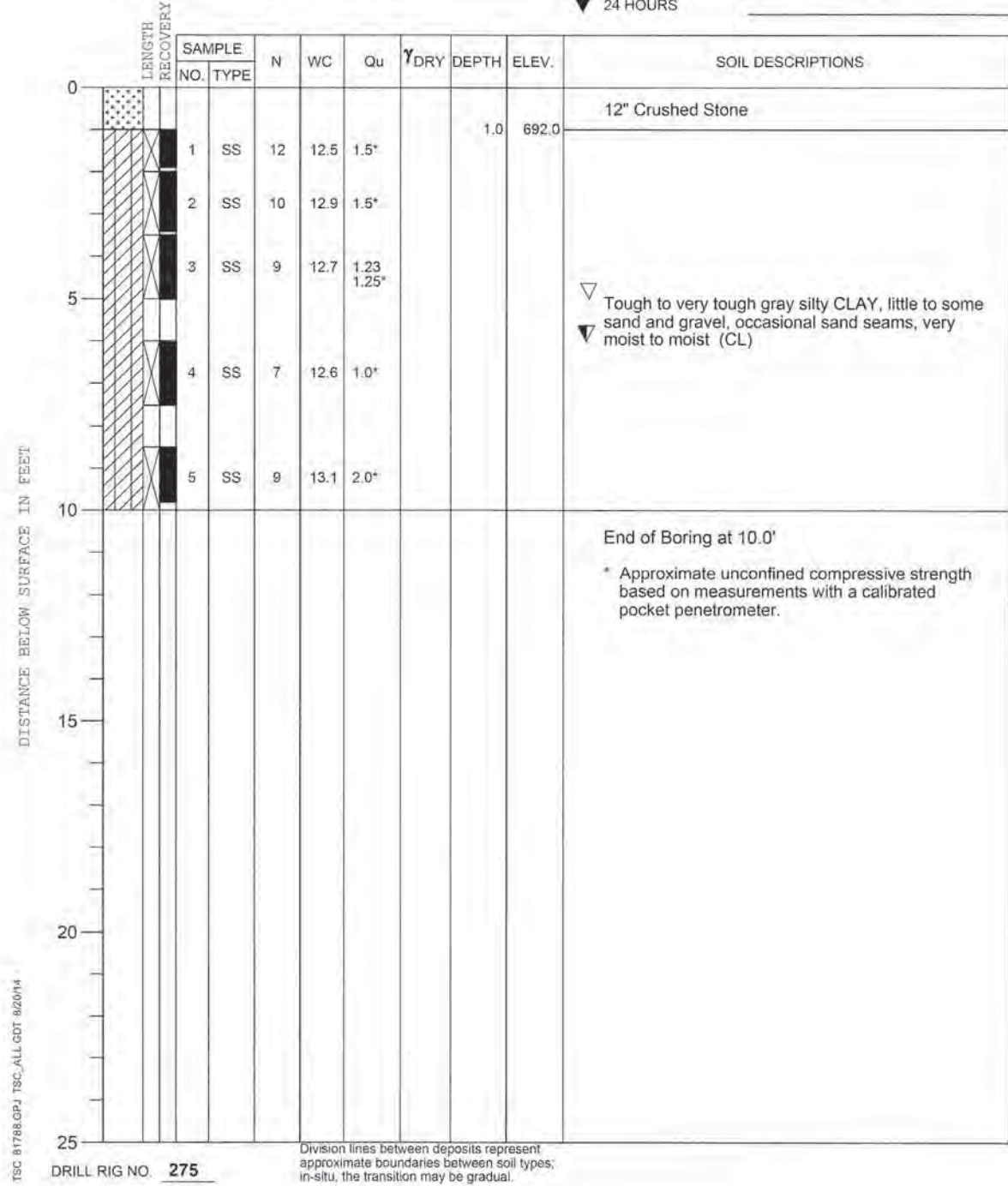
CLIENT **HR Green, Inc., 420 North Front Street, McHenry, IL**



BORING **5** DATE STARTED **7-23-14** DATE COMPLETED **7-23-14** JOB **L-81,788**

ELEVATIONS  
 GROUND SURFACE **693.0**  
 END OF BORING **683.0**

WATER LEVEL OBSERVATIONS  
 WHILE DRILLING **6.0'**  
 AT END OF BORING **5.0'**  
 24 HOURS



DRILL RIG NO. **275**

Division lines between deposits represent approximate boundaries between soil types; in-situ, the transition may be gradual.

COMPANY NAME: HRGreen.com  
 PROJECT CONTACT: #PROJECT\_CONTACTS  
 CLIENT: HRGreen  
 DATE PLOTTED: 10/30/2015 10:16:16 AM  
 FILE NAME: 86100284-001-37-RW3-RW3-156.dgn  
 PLOT ORIGIN: HRGreen  
 PEN TABLE:



USER NAME = dslanz	DESIGNED - SEC	REVISED -
	CHECKED - RGD	REVISED -
PLOT SCALE = N.T.S.	DRAWN - WJH	REVISED -
PLOT DATE = 10/30/2015	CHECKED - 10/30/15	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**SOIL BORING LOGS  
EOLA ROAD**

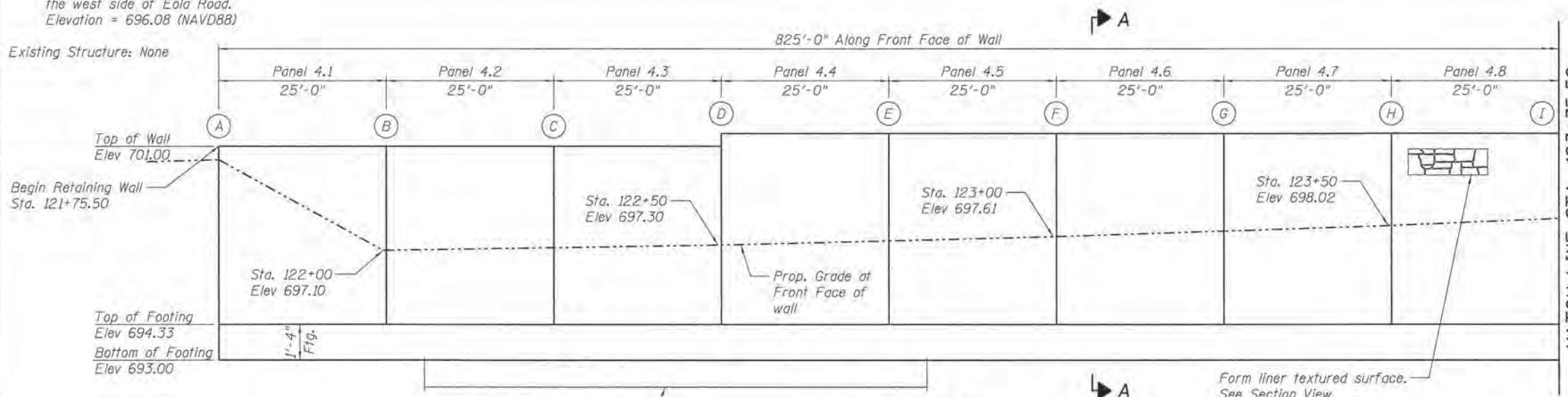
SHEET NO. RW3-3 OF RW3-3 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2531	10-00292-00-WR	DUPAGE	229	156
CONTRACT NO. 61C06				
ILLINOIS FED. AID PROJECT				



Benchmark #2:  
SW tag bolt on fire hydrant on  
the west side of Eola Road.  
Elevation = 696.08 (NAVD88)

Existing Structure: None



1'-0" of Removal and Disposal of Unsuitable Material (245 CY) Extend removal 1' beyond edges of proposed footing. Backfill with Porous Granular Backfill. Depth and limits to be determined in the field by the Engineer. An assumed quantity of the above pay item has been included in the contract for bidding purposes.

Legend  
◆ = Soil Boring Location

**WALL 4 ELEVATION**  
(Looking at Back Face of Wall)

Joint	Station	Offset to Front Face	Type	T/Wall Elev.
A	121+75.50	45.08	-	701.00
B	122+00.50	45.10	CJ	701.00
C	122+25.50	45.12	CJ	701.00
D	122+50.50	45.14	EJ	701.00/701.47
E	122+75.50	45.17	CJ	701.47
F	123+00.50	45.19	CJ	701.47
G	123+25.50	45.21	EJ	701.47
H	123+50.50	45.23	CJ	701.47
I	123+75.50	45.25	CJ	701.47

CJ = Construction Joint, EJ = Expansion Joint

**INDEX OF SHEETS**

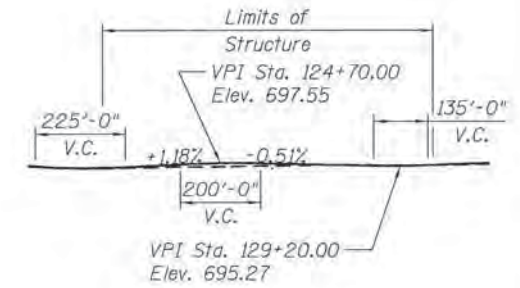
- RW4-1 General Plan and Elevation
- RW4-2 General Plan and Elevation
- RW4-3 General Plan and Elevation
- RW4-4 General Plan and Elevation
- RW4-5 Retaining Wall Details
- RW4-6 Retaining Wall Details
- RW4-7 Soil Boring Logs

**DESIGN SPECIFICATIONS**

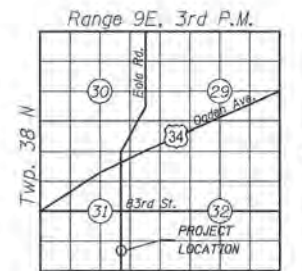
2014 AASHTO LRFD Bridge Design Specifications, 7th Edition

**FIELD UNITS**

f'c = 3,500 psi  
fy = 60,000 psi (Reinforcement)



**PROFILE GRADE**



**LOCATION SKETCH**

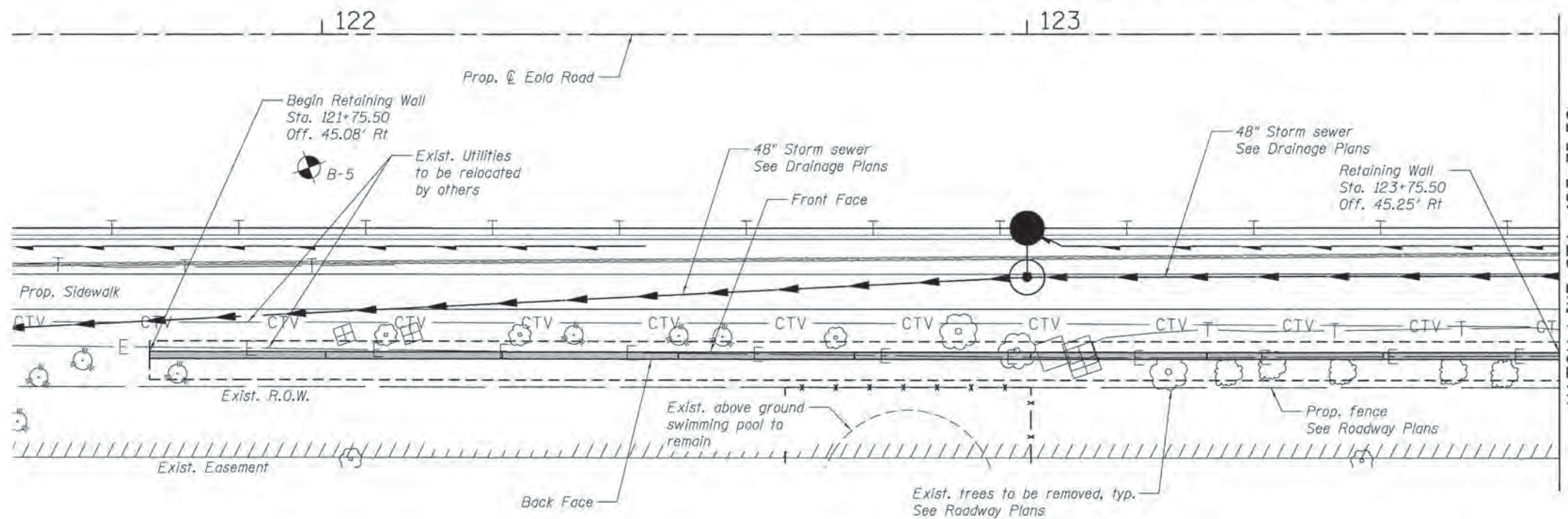
To the best of my knowledge, information and belief, this retaining wall design is structurally adequate for the design loading shown on the plans. The design is an economical one for the style of structure and complies with the requirements of the current "AASHTO LRFD Bridge Design Specification".



Structural Engineer  
HRGreen

Expires: 11/30/2016

**GENERAL PLAN AND ELEVATION**  
**EOLA ROAD RETAINING WALL #4**  
**SECTION NO. 10-00292-00-WR**  
**F.A.U. RTE 2531**  
**DUPAGE COUNTY**  
**STA. 121+75.50 TO STA. 129+92.25**



**WALL 4 PLAN**

COMPANY NAME: HRGreen.com  
PROJECT CONTACT: HRGreen.com  
DATE PLOTTED: 10/29/2015 09:56:01 AM  
FILE NAME: 86130184-01-10-00292-00-WR-10-00292-00-WR.dwg  
PLOT DRIVER: JL.dwg  
PEN TABLE: plot.tbl



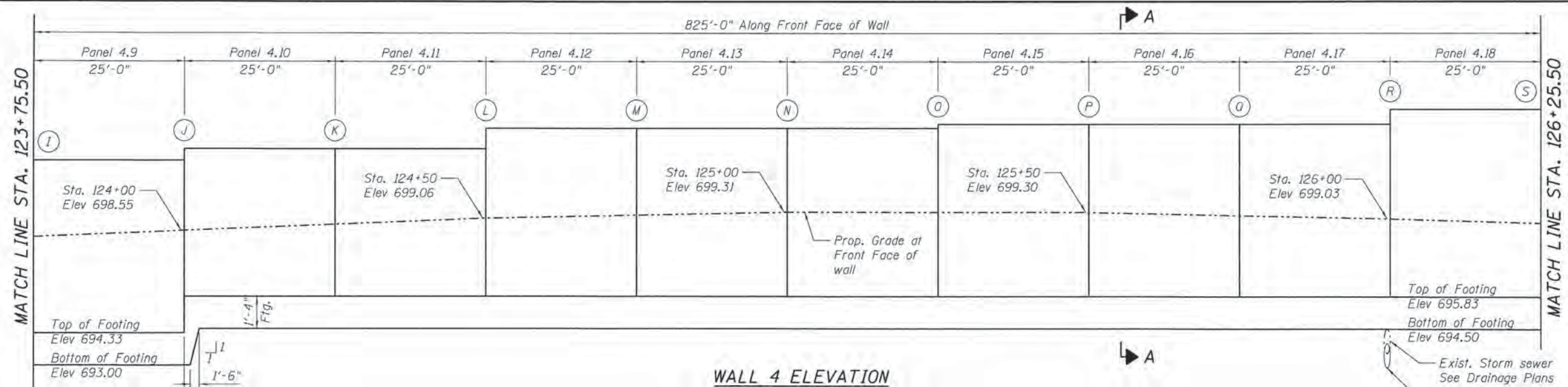
USER NAME = rdstanec	DESIGNED = SEC	REVISED =
	CHECKED = RGD	REVISED =
PLOT SCALE = N.T.S.	DRAWN = WJH	REVISED =
PLOT DATE = 10/29/2015	CHECKED = 10/29/15	REVISED =

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SHEET NO. RW4-1 OF RW4-7 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2531	10-00292-00-WR	DUPAGE	229	157
CONTRACT NO. 61C06				
ILLINOIS FED. AID PROJECT				

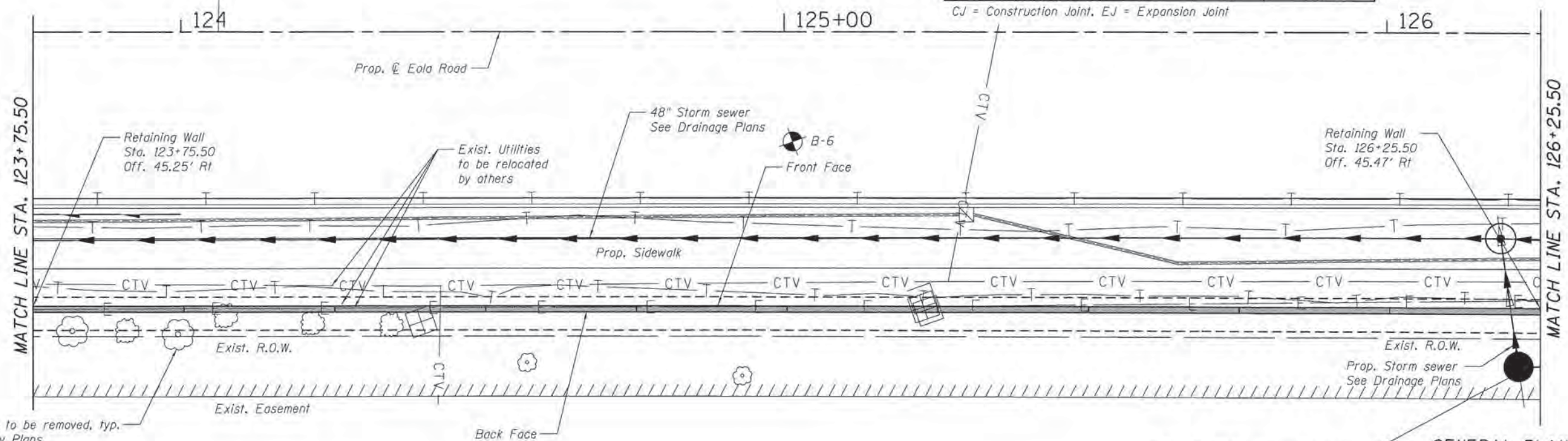




**WALL 4 ELEVATION**  
(Looking at Back Face of Wall)

Joint	Station	Offset to Front Face	Type	T/Wall Elev.
I	123+75.50	45.25	CJ	701.47
J	124+00.50	45.27	EJ	701.47/701.95
K	124+25.50	45.29	CJ	701.95
L	124+50.50	45.32	EJ	701.95/702.79
M	124+75.50	45.34	CJ	702.79
N	125+00.50	45.36	CJ	702.79
O	125+25.50	45.38	EJ	702.79/702.96
P	125+50.50	45.40	CJ	702.96
Q	125+75.50	45.42	CJ	702.96
R	126+00.50	45.44	EJ	702.96/703.58
S	126+25.50	45.47	CJ	703.58

CJ = Construction Joint, EJ = Expansion Joint



**WALL 4 PLAN**

**GENERAL PLAN AND ELEVATION**  
**EOLA ROAD RETAINING WALL #4**  
**SECTION NO. 10-00292-00-WR**  
**F.A.U. RTE 2531**  
**DUPAGE COUNTY**  
**STA. 121+75.50 TO STA. 129+92.25**

COMPANY NAME: HRGreen  
PROJECT CONTACT: [Name]  
CLIENT: [Name]  
DATE PLOTTED: 10/30/2015 10:36:34 AM  
FILE NAME: 6610384-ent-ST-Ret-w04-2.dgn  
PLOT DRIVER: [Name]  
PEN TABLE: [Name]



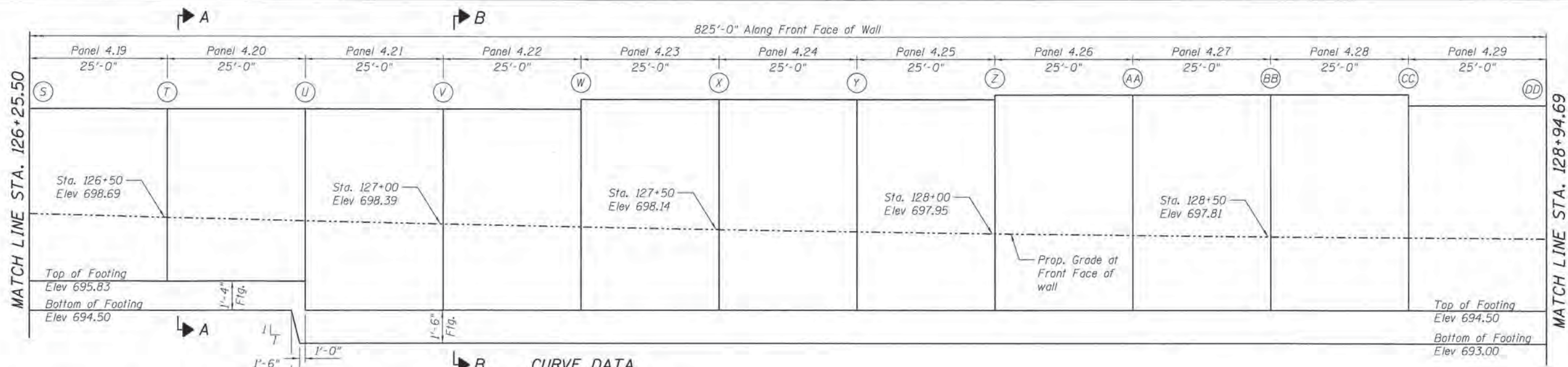
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PLOT SCALE = N.T.S.	CHECKED - RGD	REVISED -
PLOT DATE = 10/30/2015	DRAWN - WJH	REVISED -
	CHECKED - 10/30/15	REVISED -

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

SHEET NO. RW4-2 OF RW4-7 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2531	10-00292-00-WR	DUPAGE	229	158
CONTRACT NO. 61C06				
ILLINOIS FED. AID PROJECT				





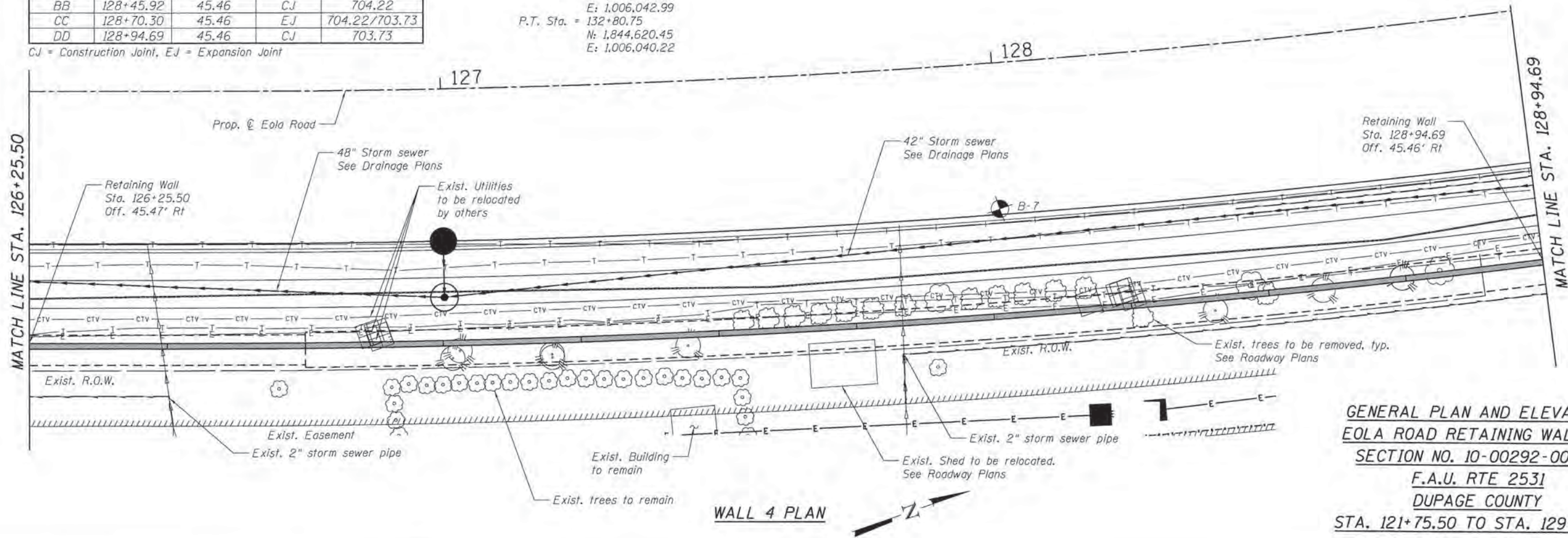
Joint	Station	Offset to Front Face	Type	T/Wall Elev.
S	126+25.50	45.47	CJ	703.58
T	126+50.50	45.49	CJ	703.58
U	126+75.23	45.49	EJ	703.58
V	126+99.61	45.49	CJ	703.58
W	127+24.00	45.48	EJ	703.58/704.02
X	127+48.38	45.47	CJ	704.02
Y	127+72.77	45.47	CJ	704.02
Z	127+97.16	45.47	EJ	704.02/704.22
AA	128+21.54	45.46	CJ	704.22
BB	128+45.92	45.46	CJ	704.22
CC	128+70.30	45.46	EJ	704.22/703.73
DD	128+94.69	45.46	CJ	703.73

CJ = Construction Joint, EJ = Expansion Joint

**CURVE DATA**  
 Prop. Curve PREOLA-2  
 $\Delta = 19^\circ 36' 43''$  (LT)  
 $D = 3^\circ 10' 59''$   
 $R = 1,800.00'$   
 $T = 311.11'$   
 $L = 616.13'$   
 $E = 26.69'$   
 $e = N/A$   
 P.C. Sta. = 126+64.62  
 N: 1,844,015.38  
 E: 1,005,941.17  
 P.I. Sta. = 129+75.73  
 N: 1,844,309.36  
 E: 1,006,042.99  
 P.T. Sta. = 132+80.75  
 N: 1,844,620.45  
 E: 1,006,040.22

**WALL 4 ELEVATION**  
 (Looking at Back Face of Wall)

Legend  
 = Soil Boring Location



**WALL 4 PLAN**

**GENERAL PLAN AND ELEVATION**  
**EOLA ROAD RETAINING WALL #4**  
**SECTION NO. 10-00292-00-WR**  
**F.A.U. RTE 2531**  
**DUPAGE COUNTY**  
**STA. 121+75.50 TO STA. 129+92.25**

COMPANY NAME: HRGreen  
 PROJECT CONTACT: HRGreen  
 CLIENT: HRGreen  
 DATE PLOTTED: 10/30/2015 10:36:35 AM  
 FILE NAME: 86110184-011-51-Rev1-wall4-3.dgn  
 PLOT DRIVER: plott.dwg  
 PEN TABLE: pen.tbl

**HRGreen**  
 Illinois Professional Design Firm  
 #184-001322

USER NAME: distance	DESIGNED: SEC	REVISED:
	CHECKED: RGD	REVISED:
PLOT SCALE: N.T.S.	DRAWN: WJH	REVISED:
PLOT DATE: 10/30/2015	CHECKED: 10/30/15	REVISED:

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

F.A.U. RTE. 2531	SECTION 10-00292-00-WR	COUNTY DUPAGE	TOTAL SHEETS 229	SHEET NO. 159
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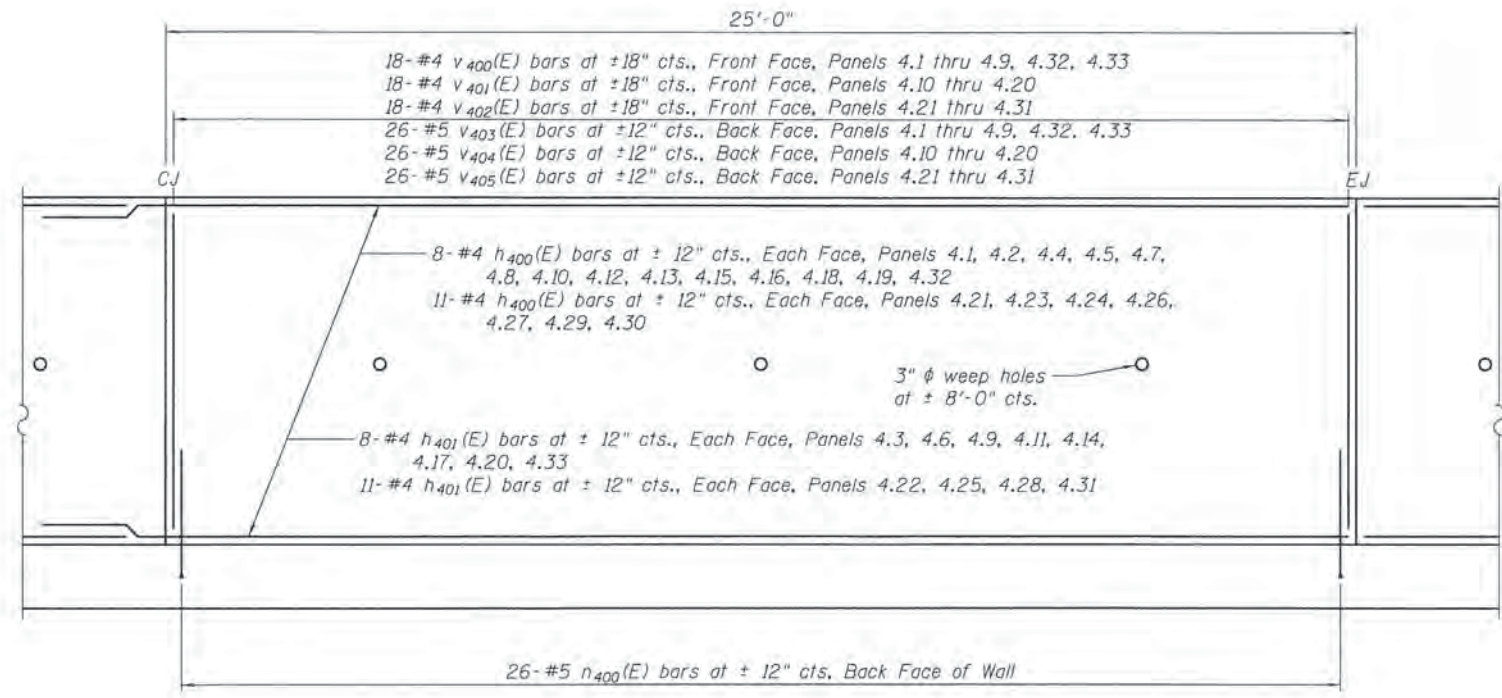
SHEET NO. RW4-3 OF RW4-7 SHEETS

ILLINOIS FED. AID PROJECT  
 CONTRACT NO. 61C06

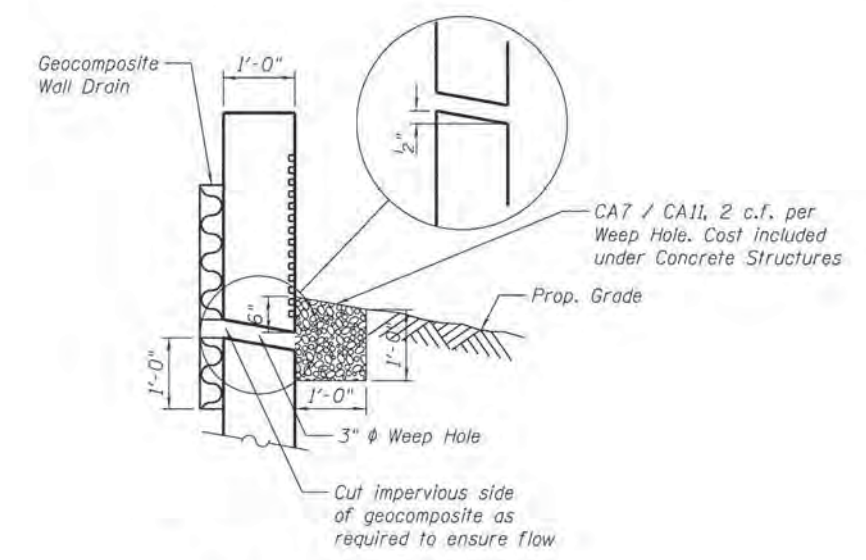




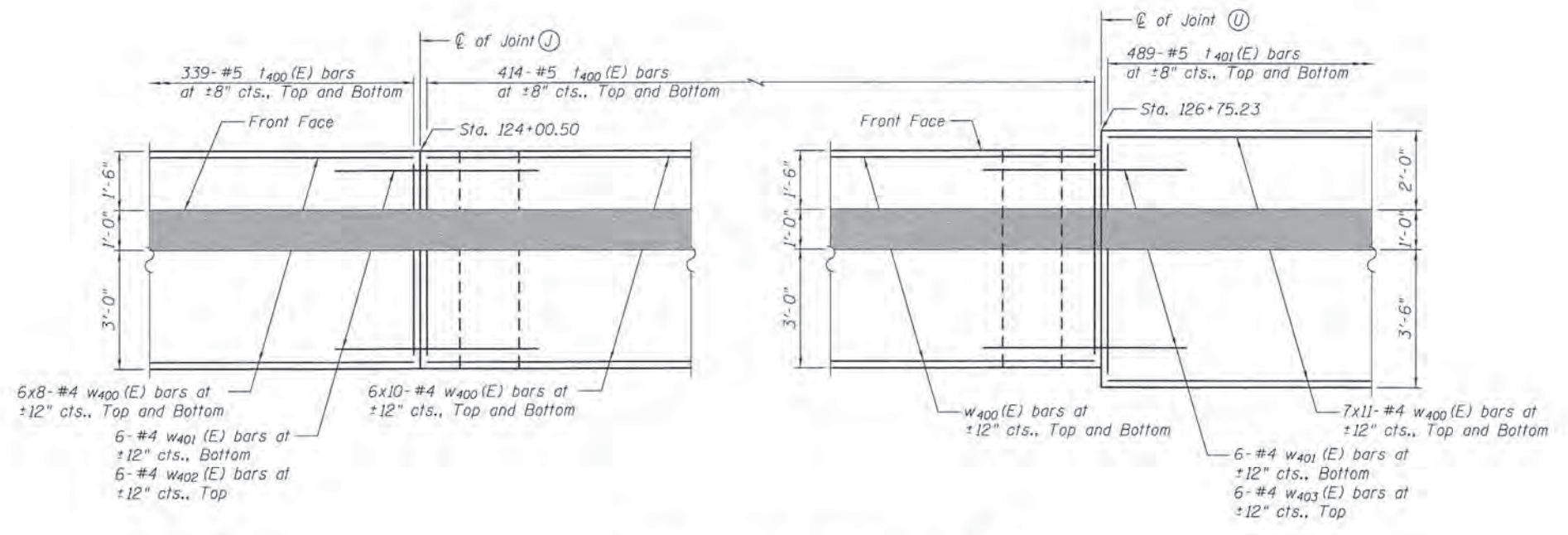




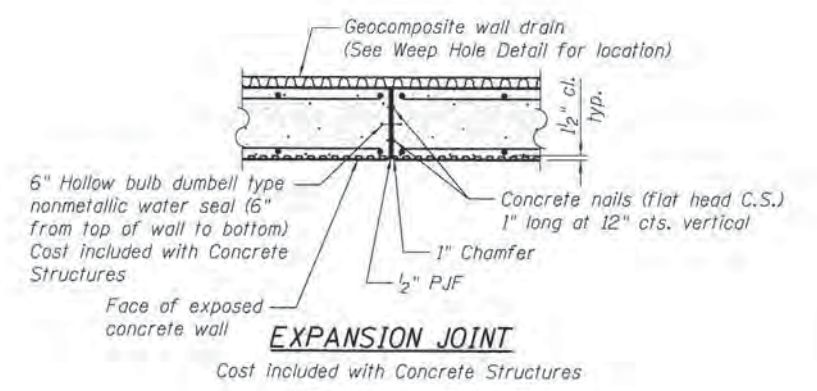
**TYPICAL WALL SECTION**  
(Looking at Front Face)



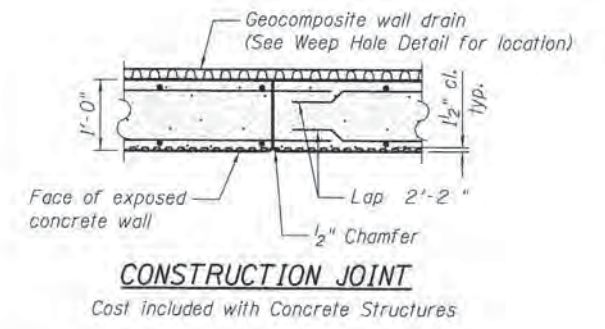
**WEEP HOLE DRAIN DETAIL**



**TYPICAL FOOTING PLANS**



**EXPANSION JOINT**



**CONSTRUCTION JOINT**

**MINIMUM BAR LAP**

#4 bar = 2'-0"  
 #5 bar = 3'-3"  
 (Unless noted otherwise)

COMPANY NAME: HRGreen  
 PROJECT CONTACT: HRGreen.com  
 DATE PLOTTED: 10/30/2015 10:36:19 AM  
 FILE NAME: 1810292-00-WR-10-30-15.dwg  
 PLOT DRIVER: li.pdf, bw, ctf, g  
 PEN TABLE: plot02a.ctb



USER NAME = dstericz	DESIGNED - SEC	REVISED -
PLOT SCALE = N.T.S.	CHECKED - RGD	REVISED -
PLOT DATE = 10/30/2015	DRAWN - WJH	REVISED -
	CHECKED - 10/30/15	REVISED -

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

RETAINING WALL DETAILS  
 EOLA ROAD  
 SHEET NO. RW4-5 OF RW4-7 SHEETS

F.A.U. RTE. 2531	SECTION 10-00292-00-WR	COUNTY DUPAGE	TOTAL SHEETS 229	SHEET NO. 161
CONTRACT NO. 61C06				ILLINOIS FED. AID PROJECT

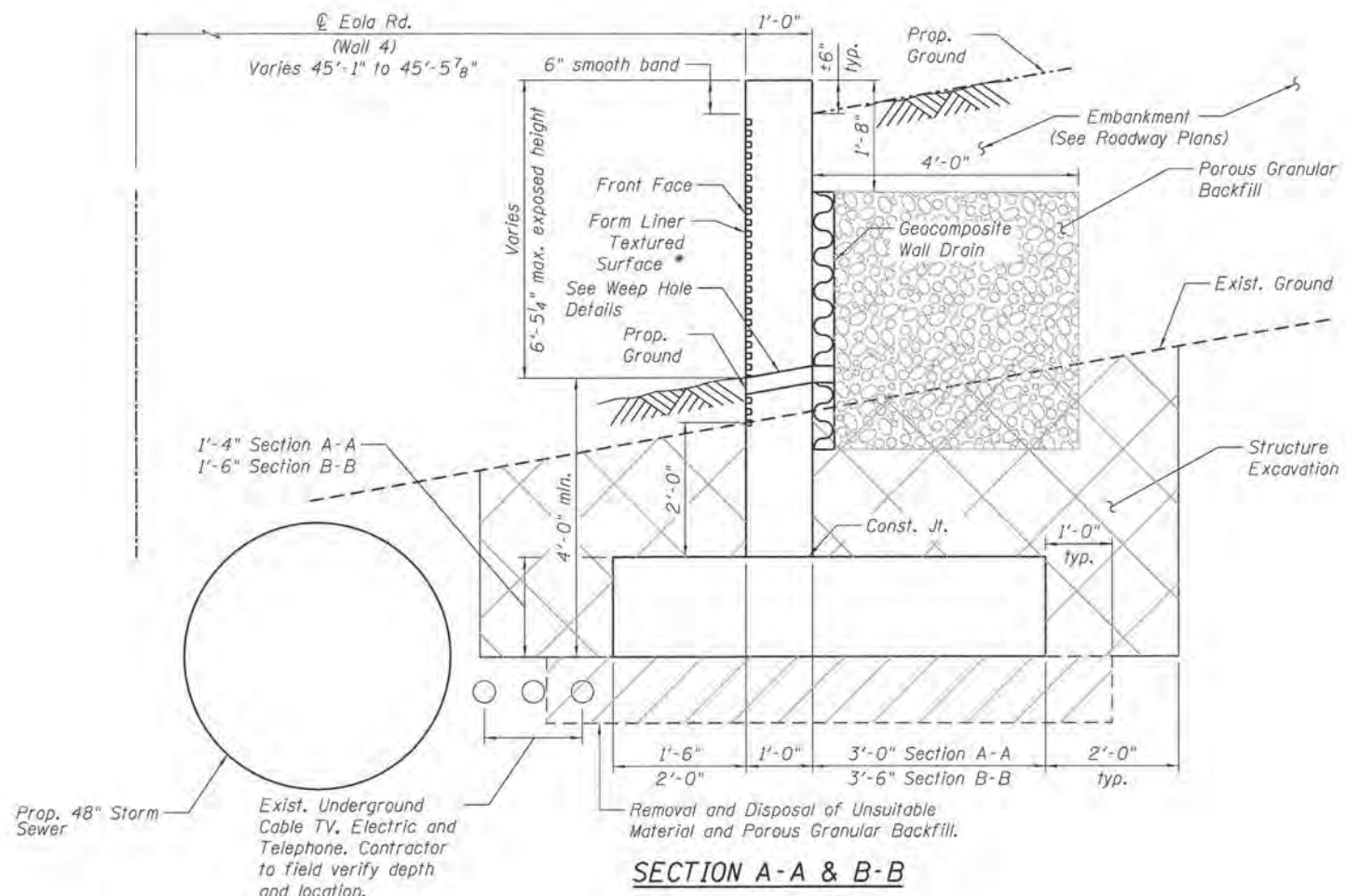


**BILL OF MATERIALS**

Bar	No.	Size	Length	Shape
$\bar{n}_{400}(E)$	378	#4	27'-2"	—
$\bar{n}_{401}(E)$	216	#4	24'-8"	—
$\bar{n}_{400}(E)$	858	#5	5'-6"	L
$V_{400}(E)$	198	#4	6'-9"	—
$V_{401}(E)$	198	#4	7'-5"	—
$V_{402}(E)$	198	#4	9'-4"	—
$V_{403}(E)$	286	#5	6'-9"	—
$V_{404}(E)$	286	#5	7'-5"	—
$V_{405}(E)$	286	#5	9'-4"	—
$\bar{t}_{400}(E)$	1506	#5	5'-2"	—
$\bar{t}_{401}(E)$	978	#5	6'-2"	—
$W_{400}(E)$	370	#4	31'-4"	—
$W_{401}(E)$	12	#4	7'-4"	—
$W_{402}(E)$	6	#4	6'-8"	—
$W_{403}(E)$	6	#4	6'-6"	—
Removal and Disposal of Unsuitable Material		Cu. Yd.	245	
Porous Granular Backfill		Cu. Yd.	795	
Structure Excavation		Cu. Yd.	2260	
Concrete Structures		Cu. Yd.	493.7	
Form Liner Textured Surface		Sq. Ft.	4400	
Reinforcement Bars, Epoxy Coated		Pound	47,720	
Geocomposite Wall Drain		Sq. Yd.	415	

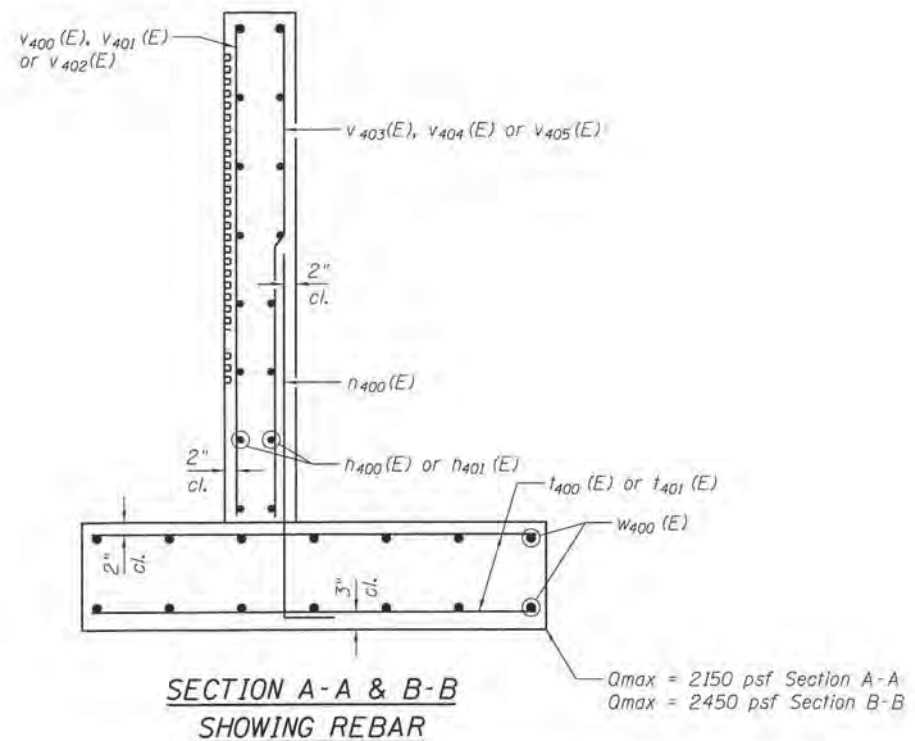
Reinforcement bars designated (E) shall be epoxy coated

Bars indicated thus 1x2-#5 etc. indicate 1 line of bars with 2 lengths per line.

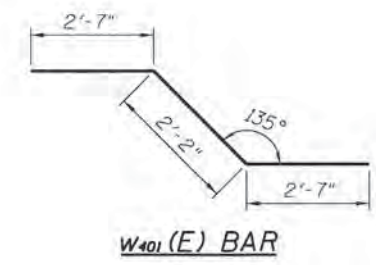


**SECTION A-A & B-B**

\* See Special Provisions for form liner pattern



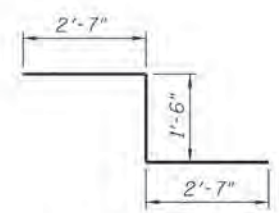
**SECTION A-A & B-B SHOWING REBAR**



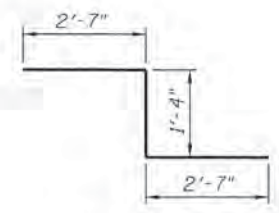
**W401(E) BAR**



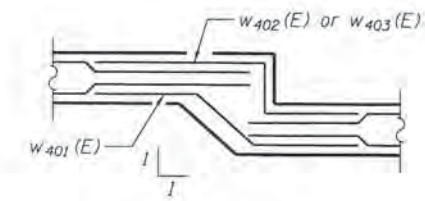
**n400(E) BAR**



**W402(E) BAR**



**W403(E) BAR**



**STEP DETAIL**

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 PROJECT CONTACT: [Redacted]  
 CLIENT: [Redacted]  
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**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

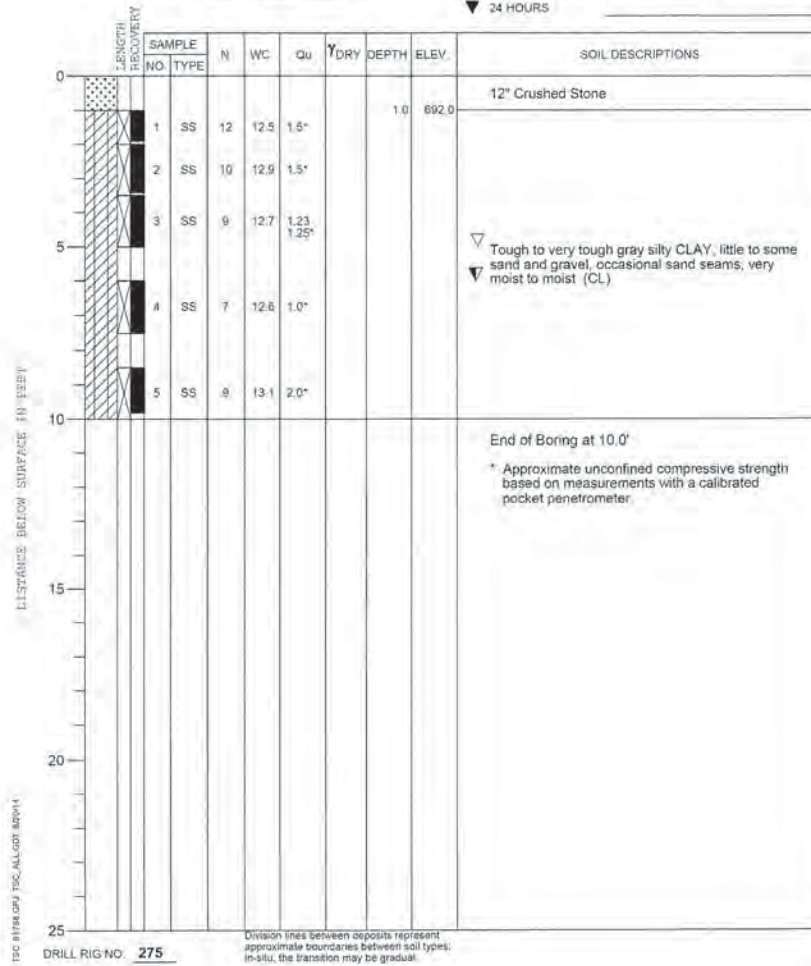
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 EOLA ROAD**

SHEET NO. RW4-6 OF RW4-7 SHEETS

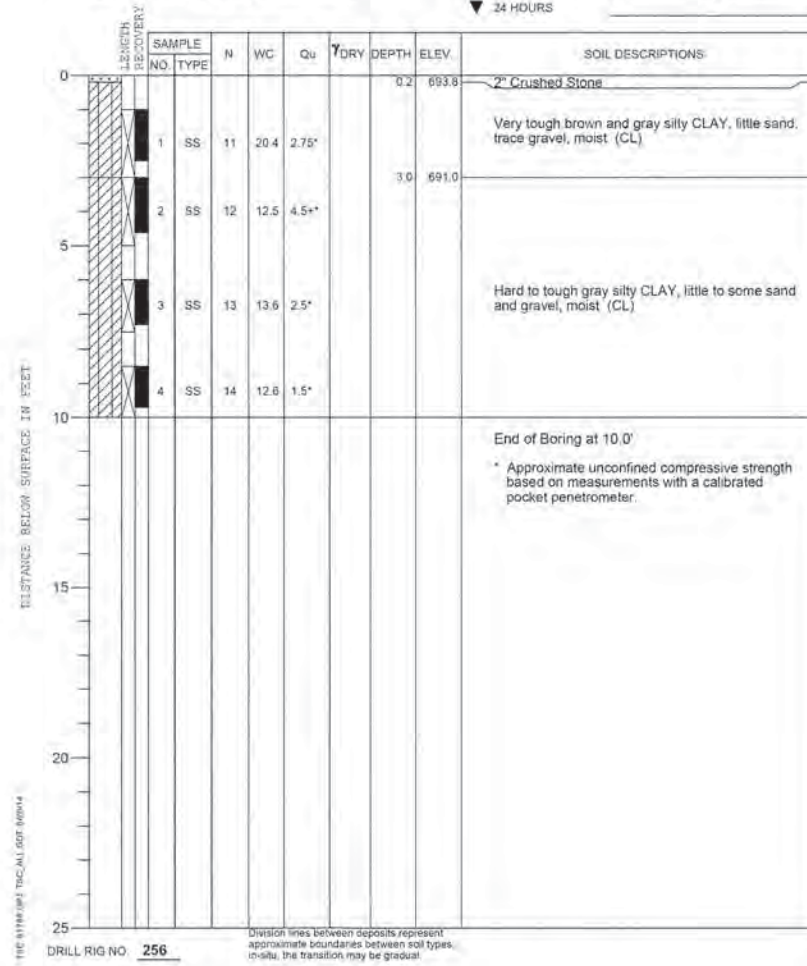
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CONTRACT NO. 61C06				
(ILLINOIS) FED. AID PROJECT				



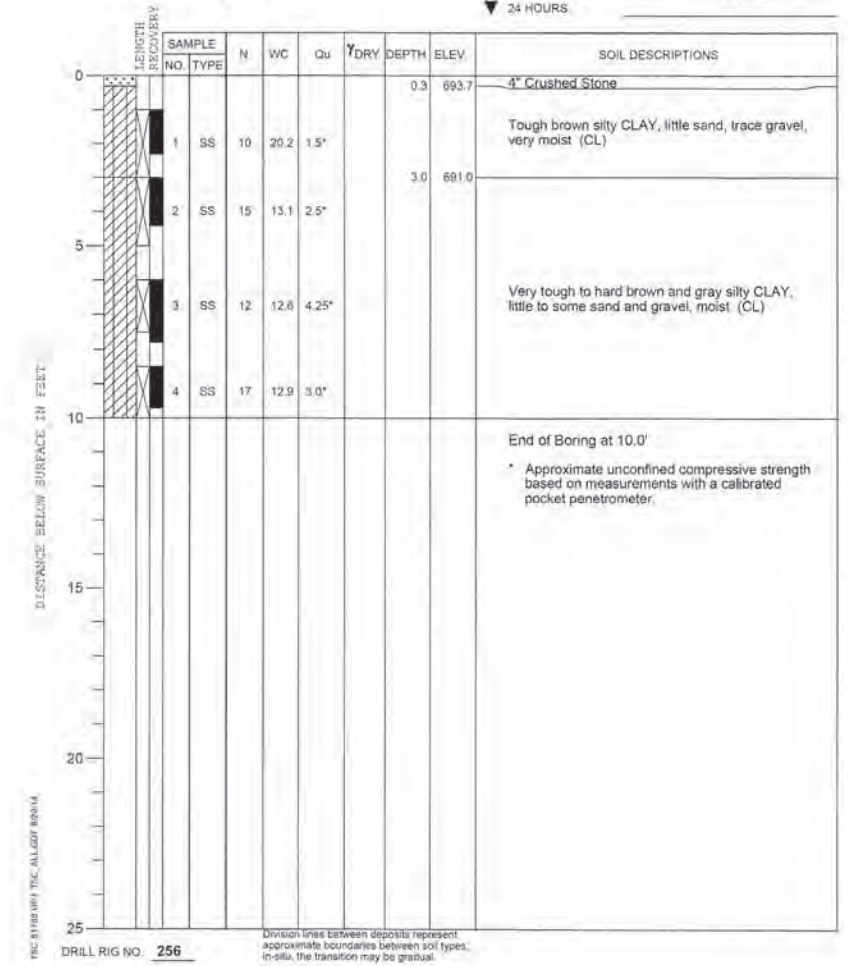
PROJECT **Eola Road Improvements, 83rd to 87th Streets, Aurora, IL**  
 CLIENT **HR Green, Inc., 420 North Front Street, McHenry, IL**  
 BORING **5** DATE STARTED **7-23-14** DATE COMPLETED **7-23-14** JOB **L-81,788**  
 ELEVATIONS WATER LEVEL OBSERVATIONS  
 GROUND SURFACE **693.0** WHILE DRILLING **6.0\***  
 END OF BORING **683.0** AT END OF BORING **5.0\***  
 24 HOURS



PROJECT **Eola Road Improvements, 83rd to 87th Streets, Aurora, IL**  
 CLIENT **HR Green, Inc., 420 North Front Street, McHenry, IL**  
 BORING **6** DATE STARTED **7-23-14** DATE COMPLETED **7-23-14** JOB **L-81,788**  
 ELEVATIONS WATER LEVEL OBSERVATIONS  
 GROUND SURFACE **694.0** WHILE DRILLING **Dry**  
 END OF BORING **684.0** AT END OF BORING **Dry**  
 24 HOURS



PROJECT **Eola Road Improvements, 83rd to 87th Streets, Aurora, IL**  
 CLIENT **HR Green, Inc., 420 North Front Street, McHenry, IL**  
 BORING **7** DATE STARTED **7-23-14** DATE COMPLETED **7-23-14** JOB **L-81,788**  
 ELEVATIONS WATER LEVEL OBSERVATIONS  
 GROUND SURFACE **694.0** WHILE DRILLING **Dry**  
 END OF BORING **684.0** AT END OF BORING **Dry**  
 24 HOURS



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 PROJECT CONTACT: #PROJECT\_CONTACT#  
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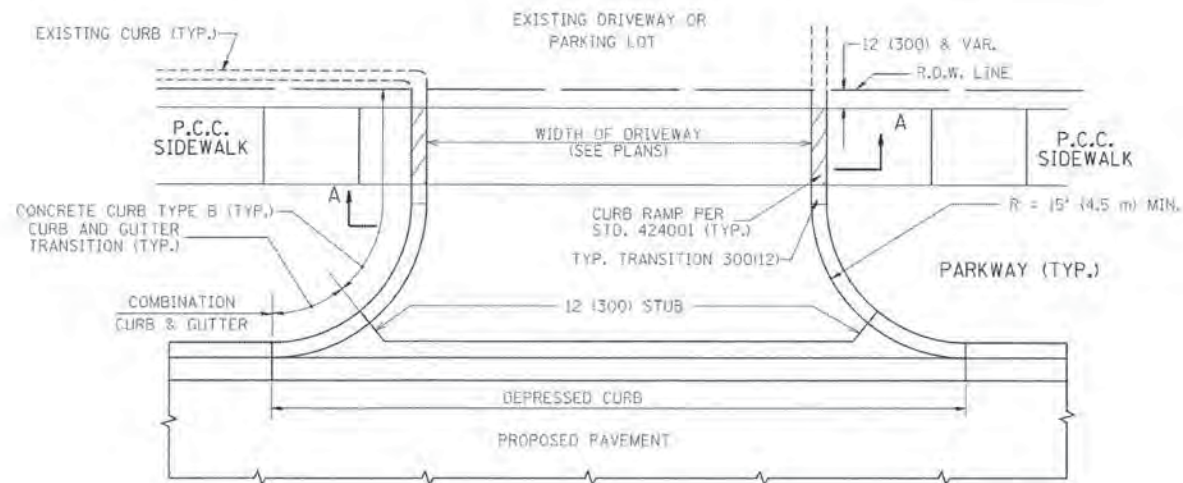
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STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

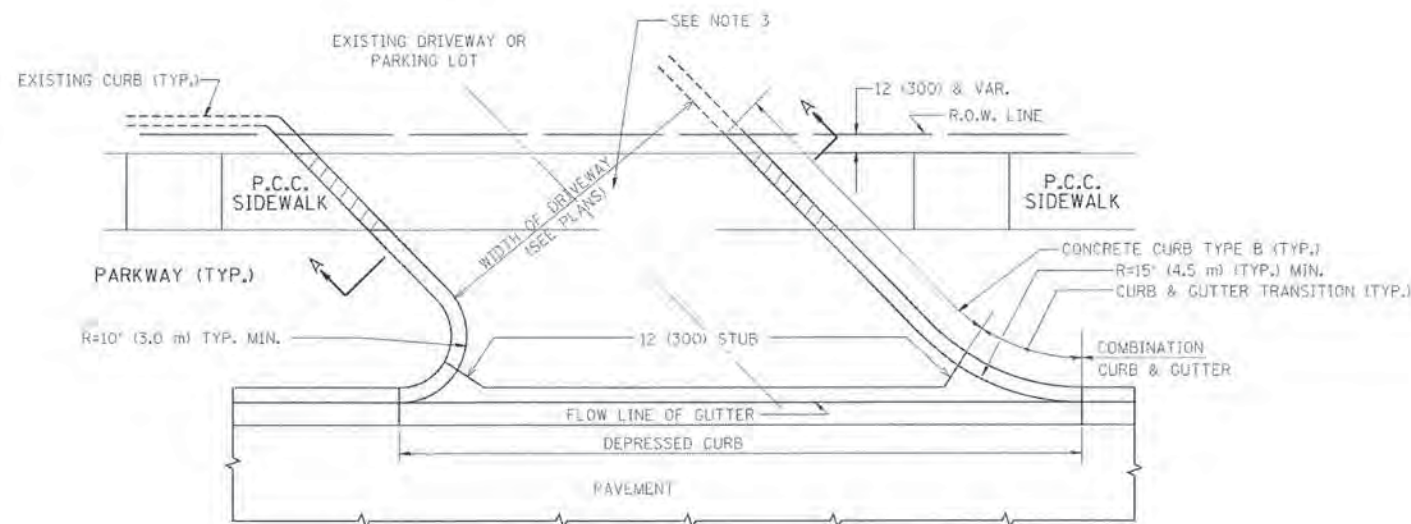
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F.A.U. RTE. 2531	SECTION 10-00292-00-WR	COUNTY DUPAGE	TOTAL SHEETS 229	SHEET NO. 163
CONTRACT NO. 61C06				
[ILLINOIS] FED. AID PROJECT				

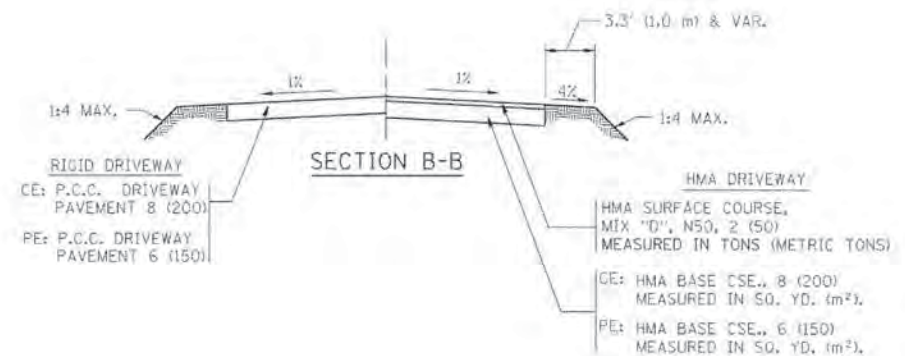
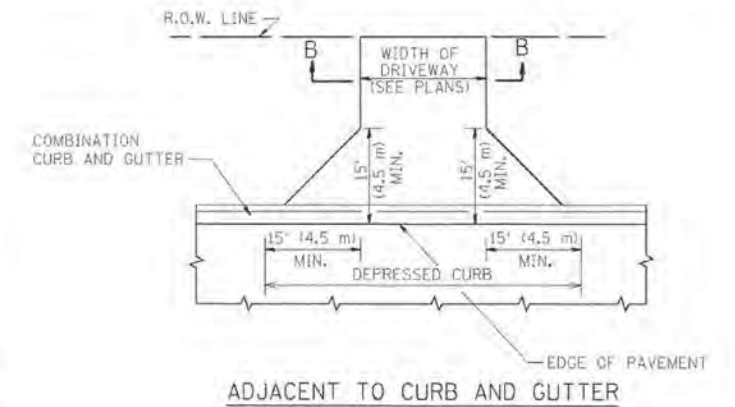
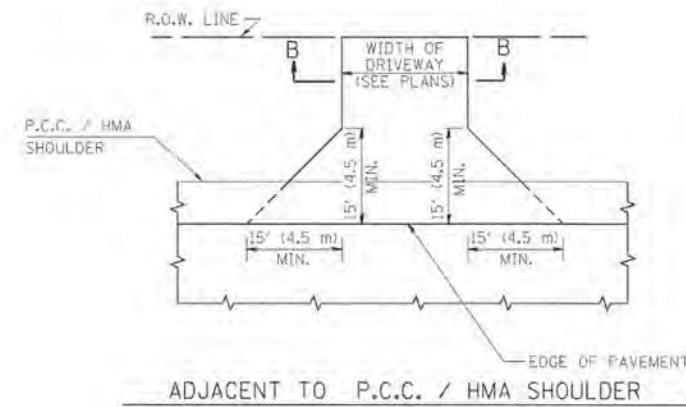
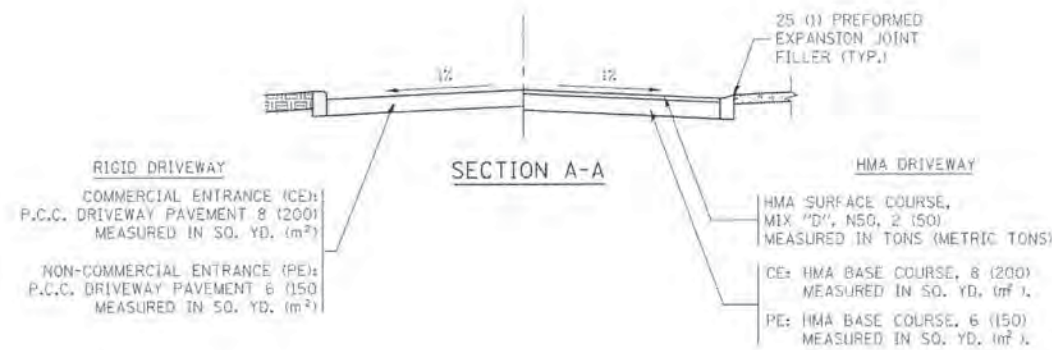




WITH CONCRETE CURB, TYPE B



WITH CONCRETE CURB, TYPE B



RURAL FIELD ENTRANCE (FE)  
HMA SURFACE COURSE,  
MIX "D", N50, 2 (50)  
MEASURED IN SQ. YD. (m<sup>2</sup>)  
AGGREGATE BASE (CSE., TYPE B, 8 (200)  
MEASURED IN SQ. YD. (m<sup>2</sup>).

GENERAL NOTES:

DRIVEWAY SLOPES, LOCATIONS, & GEOMETRIC LAYOUT SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE "HANDBOOK FOR POLICY ON PERMITS FOR ACCESS DRIVEWAYS TO STATE HIGHWAYS". FOR FURTHER LAYOUT REQUIREMENTS, REFER TO ILLUSTRATIONS IN THE PERMIT HANDBOOK. DRIVEWAYS SHALL BE REPLACED IN KIND, UNLESS OTHERWISE NOTED ON THE PLANS.

COMMERCIAL DRIVEWAYS SHALL BE CONSTRUCTED WITH CONCRETE CURB, TYPE B RETURNS EXCEPT WHEN THE SIDEWALK EDGE IS 4 FEET (1.2 METERS) OR LESS FROM THE BACK OF CURB, CONSTRUCT A FLARE DRIVEWAY WITHOUT CURB.

THE RESIDENT ENGINEER SHALL CONTACT THE TRAFFIC PERMIT OFFICE AT 847/ 705-4131 FOR ANY QUESTIONS ON DRIVEWAYS SHOWN IN THE PLANS; SPECIFICALLY IN REFERENCE TO ADDITIONAL AND/OR RELOCATION/REMOVAL OF A DRIVEWAY.

COMBINATION CONCRETE CURB & GUTTER SHALL BE MEASURED STRAIGHT ACROSS THE DRIVEWAY. NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR THE CURB & GUTTER TRANSITION.

1 (25) PREFORMED EXPANSION JOINT FILLER WILL NOT BE PAID SEPARATELY, BUT SHALL BE CONSIDERED INCLUDED IN THE COST OF THE P.C.C. DRIVEWAY PAVEMENT OR P.C.C. SIDEWALK.

WHEN THE P.C.C. SIDEWALK EXTENDS THROUGH THE DRIVEWAY, THE THICKNESS OF THE SIDEWALK IN THE DRIVEWAY AREA SHALL BE THE SAME AS THE DRIVEWAY THICKNESS. SIDEWALK WILL BE PAID FOR AS P.C.C. SIDEWALK OF THE THICKNESS SPECIFIED. SIDEWALK CROSS SLOPE THRU DRIVEWAY AREA TO BE A MAXIMUM OF 1:50.

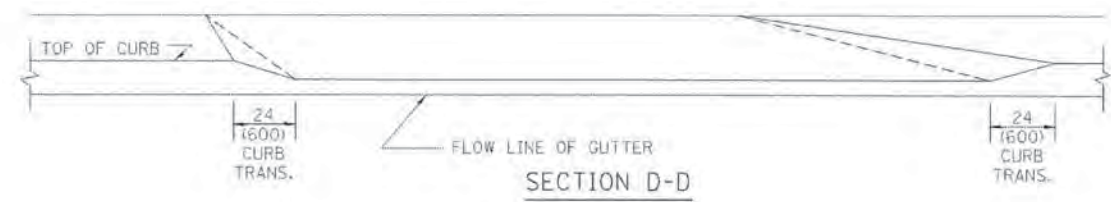
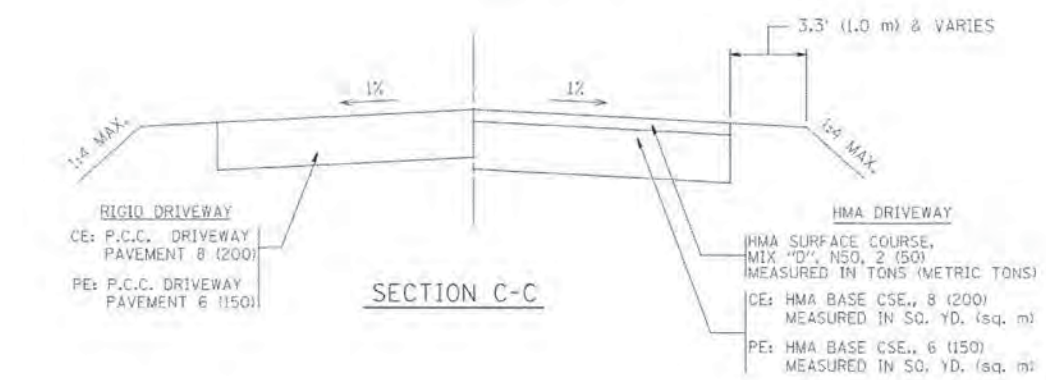
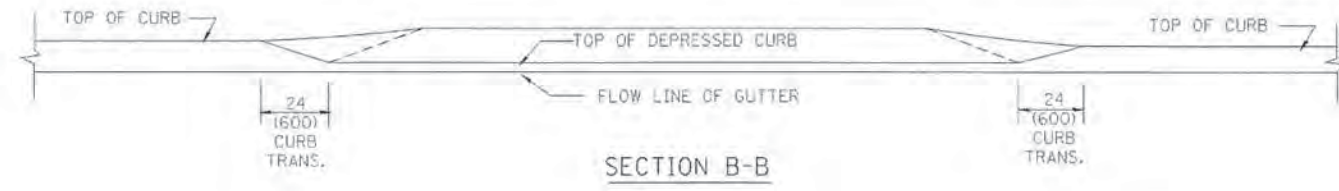
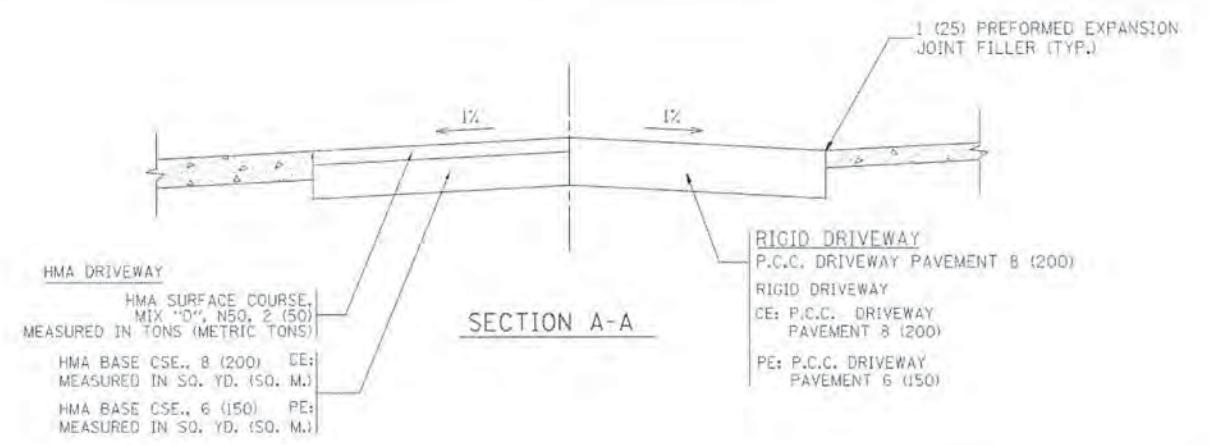
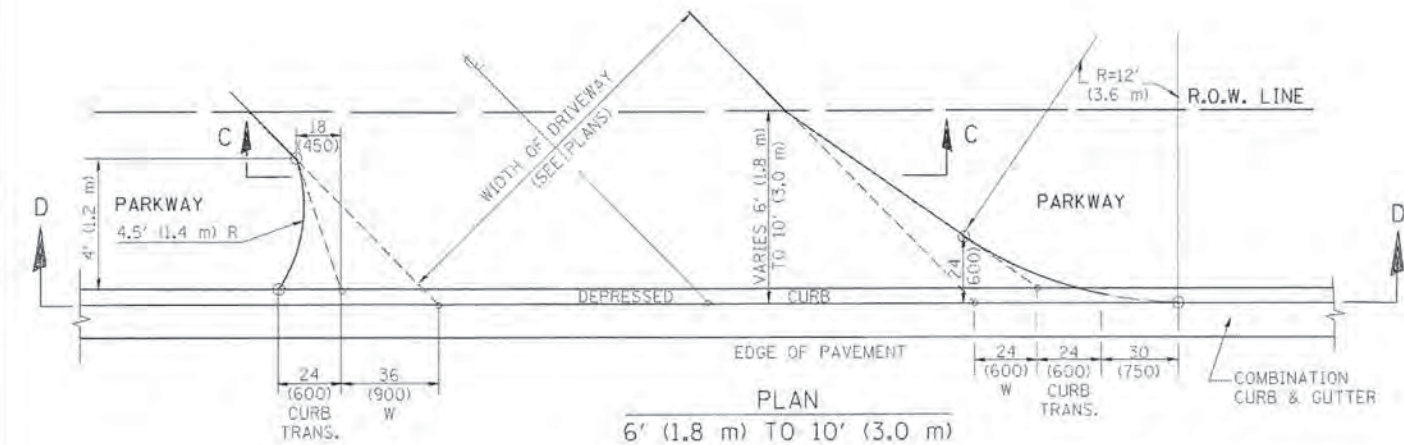
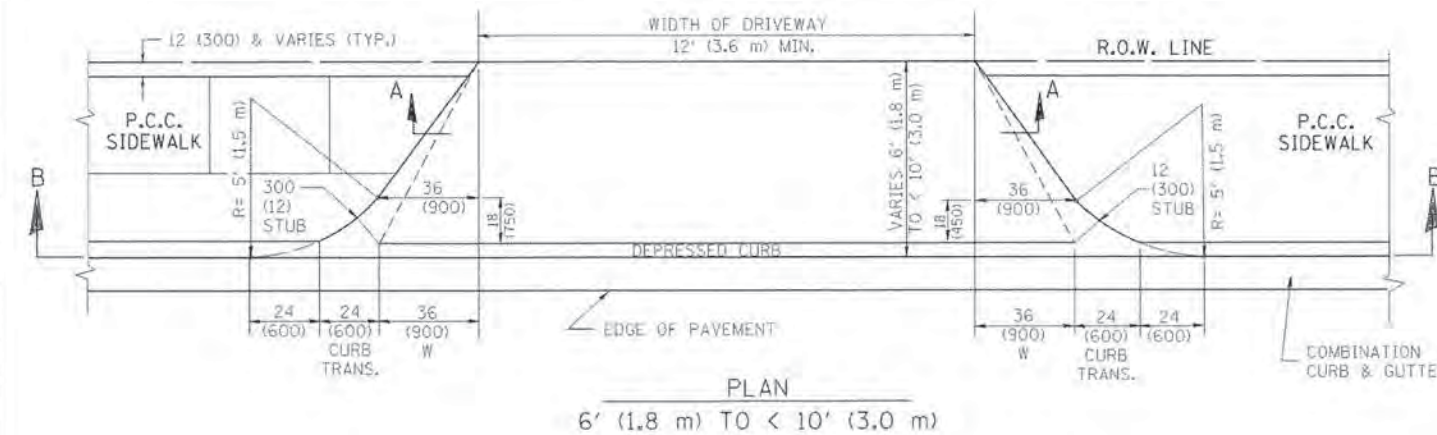
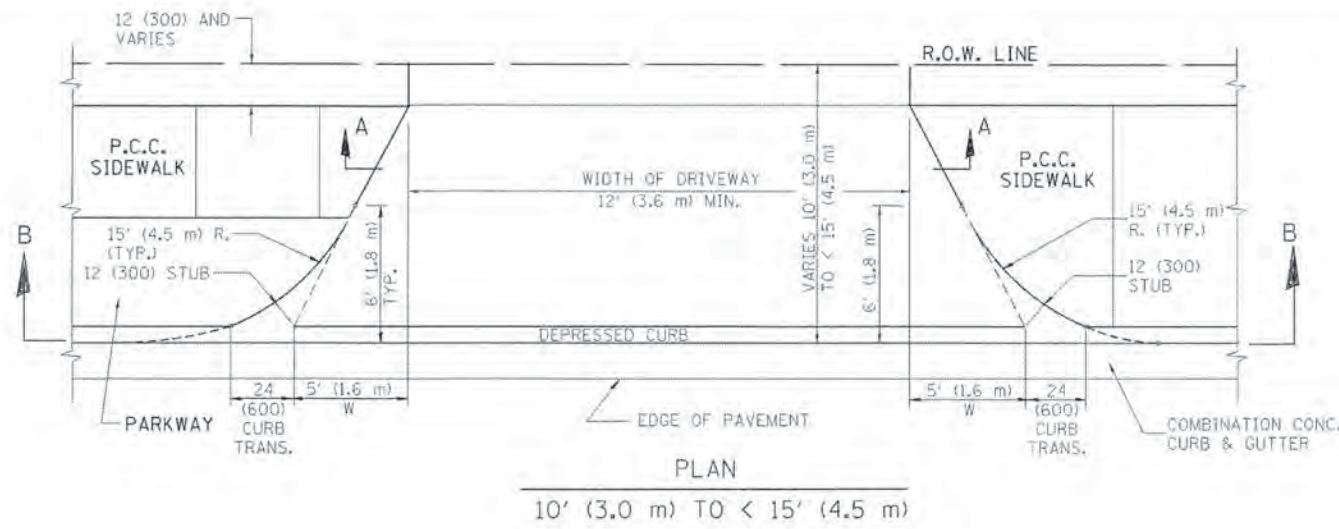
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	PLOT DATE = 9/6/2011	DATE - 11-04-95	REVISED - R. BORO 09-06-11

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

DRIVEWAY DETAILS - DISTANCE BETWEEN R.O.W. AND FACE OF CURB & EDGE OF SHOULDER >= 15' (4.5 m)		F.A.U. RTE. 2531	SECTION 10-00292-00-WR	COUNTY DUPAGE	TOTAL SHEETS 229	SHEET NO. 164
SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.		BD0156-07 (BD-01)		CONTRACT NO. 61COG		
FED. ROAD DIST. NO. 1 [ILLINOIS] FED. AID PROJECT						





**GENERAL NOTES**

DRIVEWAY SLOPES, LOCATIONS, & GEOMETRIC LAYOUT SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE "HANDBOOK FOR POLICY ON PERMITS FOR ACCESS DRIVEWAYS TO STATE HIGHWAYS". FOR FURTHER LAYOUT REQUIREMENTS, REFER TO ILLUSTRATION 10 IN THE PERMIT HANDBOOK. WHERE SIDEWALKS EXIST, DRIVEWAYS SHALL BE REPLACED WITH RIGID PAVEMENT. WHERE NO SIDEWALKS EXIST, DRIVEWAYS SHALL BE REPLACED IN KIND. SIDEWALK CROSS SLOPE THRU DRIVEWAY AREA TO BE A MAXIMUM OF 1:50.

WHEN THE DISTANCE BETWEEN R.O.W. AND THE BACK OF CURB IS EQUAL TO OR LESS THAN 8' (2.4 m), THE P.C.C. SIDEWALK SHALL EXTEND TO THE BACK OF CURB.

THE RESIDENT ENGINEER SHALL CONTACT THE TRAFFIC PERMIT OFFICE AT 847/ 705-4131 FOR ANY QUESTIONS ON DRIVEWAYS SHOWN IN THE PLANS, SPECIFICALLY IN REFERENCE TO ADDITIONAL AND/OR RELOCATION/REMOVAL OF A DRIVEWAY.

COMBINATION CONCRETE CURB & GUTTER SHALL BE MEASURED STRAIGHT ACROSS THE DRIVEWAY. NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR THE CURB & GUTTER TRANSITION.

THE 1 (25) PREFORMED EXPANSION JOINT FILLER WILL NOT BE PAID SEPARATELY, BUT SHALL BE CONSIDERED INCLUDED IN THE COST OF THE P.C.C. DRIVEWAY PAVEMENT OR P.C.C. SIDEWALK.

"W" VARIES FROM 36 (900) TO 5' (1.5 m) PROPORTIONAL TO THE LENGTH (L), FROM 6' (1.8 m) TO 10' (3 m).

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE NOTED.

COMPANY NAME: PROJECT CONTACT: CLIENT: DATE PLOTTED: FILE NAME: PLOT DRIVER: PEN TABLE:

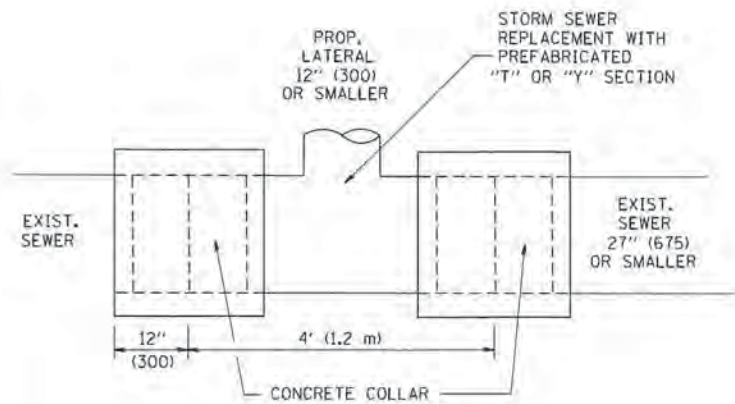
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			P. LOFLEUR 04-15-03
		CHECKED -	REVISED -
			R. BORD 01-01-07
		DATE -	REVISED -
		11-06-95	R. BORD 09-06-11

**STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION**

DRIVEWAY DETAILS	
DISTANCE BETWEEN ROW AND FACE OF CURB < 15' (4.5 m)	
SCALE: NONE	SHEET NO. 1 OF 1 SHEETS STA. TO STA.

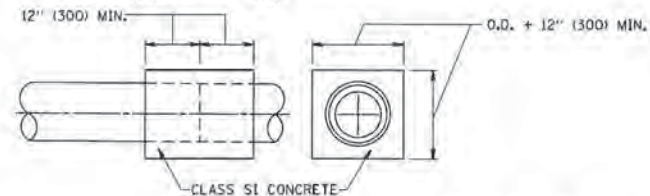
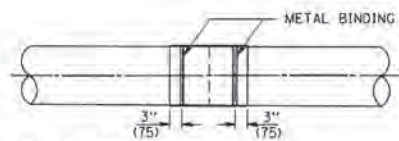
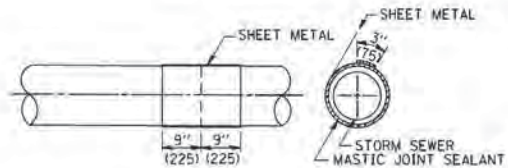
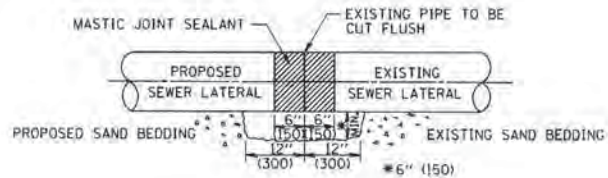
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BD400-02 (BD-02)			CONTRACT NO. 61C06	
FED. ROAD DIST. NO. 1   ILLINOIS   FED. AID PROJECT				





DETAIL "A"

LATERAL CONNECTION TO EXISTING SEWER OF 27" (675) OR SMALLER

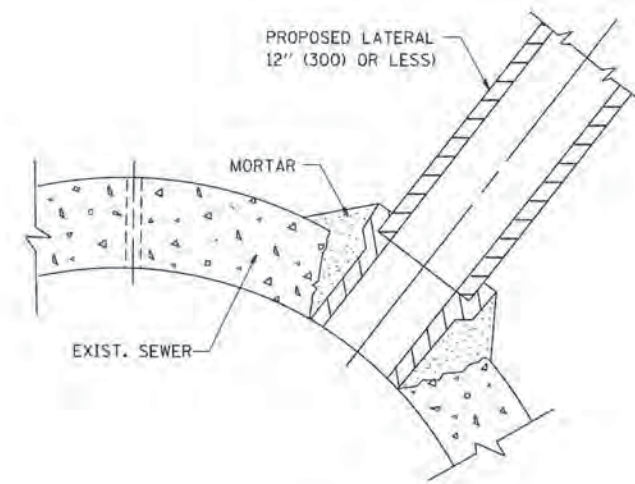


DETAIL "B"

CLASS SI CONCRETE COLLAR

CONSTRUCTION SEQUENCE

1. CUT THE EXISTING END OF THE PIPE SO AS TO PRESENT A FLUSH BUTT JOINT. BRUSH AND CLEAN ALL PIPES.
2. APPLY THE MASTIC JOINT SEALANT TO THE FIRST 6" (150) OF EACH PIPE.
3. BUTT THE PIPES TOGETHER LEAVING A MINIMUM OF 12" x 6" (300 x 150) DEEP EXCAVATION UNDER AND AROUND EACH PIPE END.
4. CUT A PIECE OF SHEET METAL GAGE NO. 19 I.I. (0.0418) 18" (450) WIDE BY THE OUTSIDE CIRCUMFERENCE OF THE PIPE PLUS 3" (75) LONG.
5. WRAP THE SHEET METAL AROUND THE PIPES, 9" (225) ON EACH SIDE OF THE JOINT, STARTING AT THE TOP OF THE PIPE.
6. LAP THE SHEET METAL AT LEAST 3" (75) AT THE TOP OF THE PIPE AND PLACE THE MASTIC JOINT SEALANT BETWEEN THE LAP.
7. PLACE TWO METAL BANDS AROUND THE SHEET METAL AND TIGHTEN.
8. WIPE OFF ANY EXCESS MASTIC JOINT SEALANT THAT OZZES OUT FROM BETWEEN THE SHEET METAL AND THE PIPES.
9. PLACE CLASS SI CONCRETE AROUND THE JOINT.



DETAIL "C"

PROPOSED LATERAL CONNECTION TO EXISTING SEWER OF 30" (750) OR LARGER

NOTES

MATERIAL

MATERIAL USED FOR THE TEE OR WYE SECTION SHALL BE COMPATIBLE WITH THE EXISTING STORM SEWER OR THE PROPOSED STORM SEWER.

CONSTRUCTION METHODS

- THIS WORK SHALL BE CONSTRUCTED IN CONFORMANCE WITH THE APPLICABLE PORTIONS OF SECTION 550 OF THE STANDARD SPECIFICATIONS.
- CONNECTION TO AN EXISTING STORM SEWER SHALL BE BY EITHER OF THE FOLLOWING METHODS:
  - PROPOSED STORM SEWER CONNECTION TO EXISTING SEWER OF 27" (675) OR SMALLER SEE DETAIL "A" AND "B".
  - PROPOSED STORM SEWER CONNECTION TO EXISTING SEWER OF 30" (750) OR LARGER SEE DETAIL "C".

IF THE EXISTING SEWER PIPE IS CRACKED, BROKEN OR OTHERWISE DAMAGED BY THE CONTRACTOR IN MAKING THE CIRCULAR OPENING, THE CONTRACTOR SHALL REPLACE THAT SECTION OF PIPE WITH PIPE EQUAL AND SIMILAR IN ALL RESPECTS TO THE PIPE IN THE EXISTING SEWER, IN A CAREFUL WORKMANLIKE MANNER, WITHOUT EXTRA COMPENSATION.

GENERAL

CARE MUST BE TAKEN TO PREVENT DEBRIS FROM ENTERING THE SEWER. ALL DEBRIS WHICH ENTERS THE SEWER MUST BE REMOVED. THE SEWER MUST BE LEFT CLEAN AND UNOBSTRUCTED UPON COMPLETION OF THE CONTRACT.

CARE MUST BE TAKEN TO PREVENT ANY PART OF THE NEW PIPE CONNECTION FROM PROJECTING INTO THE EXISTING SEWER.

BASIS OF PAYMENT

TEE OR WYE CONNECTIONS SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE EACH FOR STORM SEWER TEE OR WYE OF THE TYPE AND SIZE SPECIFIED IN THE PLANS. THIS PRICE SHALL INCLUDE ALL EXCAVATION OF THE TRENCH, REMOVAL OF THE EXISTING STORM SEWER, FURNISHING AND INSTALLING THE SPECIFIED TEE OR WYE SECTION, FURNISHING AND INSTALLING THE REQUIRED CONCRETE COLLAR, AND ALL OTHER MATERIAL NECESSARY TO COMPLETE THIS WORK AS SHOWN AND SPECIFIED.

REMOVAL AND REINSTALLATION OF EXISTING STORM SEWER ADJACENT TO THE PROPOSED TEE OR WYE SECTION, FOR THE PURPOSE OF FACILITATING THE INSTALLATION OF THE TEE OR WYE SECTION, WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THE WORK.

TRENCH BACKFILL, EXCAVATION IN ROCK AND REMOVAL AND REPLACEMENT OF UNSUITABLE MATERIAL BELOW PLAN BEDDING GRADE WILL BE PAID FOR SEPARATELY.

CONCRETE COLLAR FOR CONNECTING A PROPOSED STORM SEWER TO AN EXISTING STORM SEWER WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE COST OF THE PROPOSED STORM SEWER.

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

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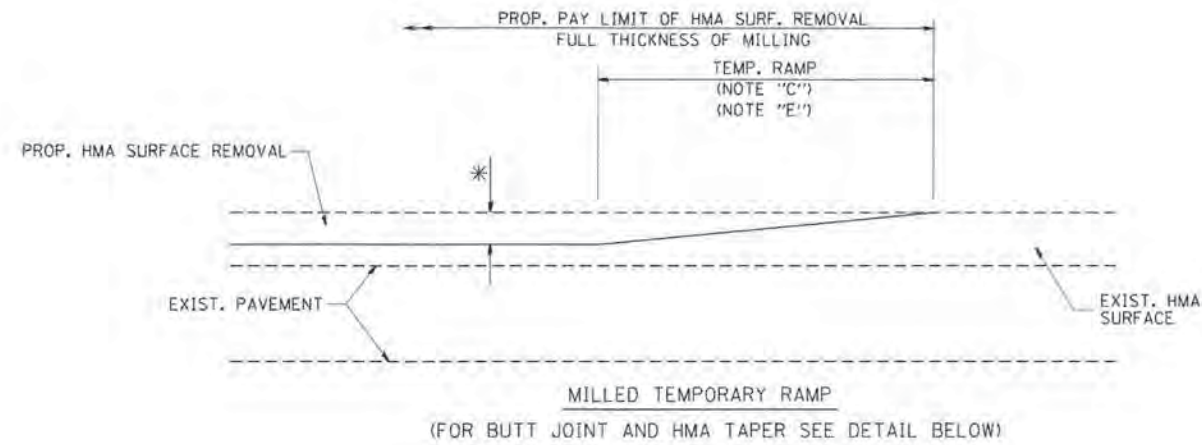
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

DETAIL OF STORM SEWER  
CONNECTION TO EXISTING SEWER

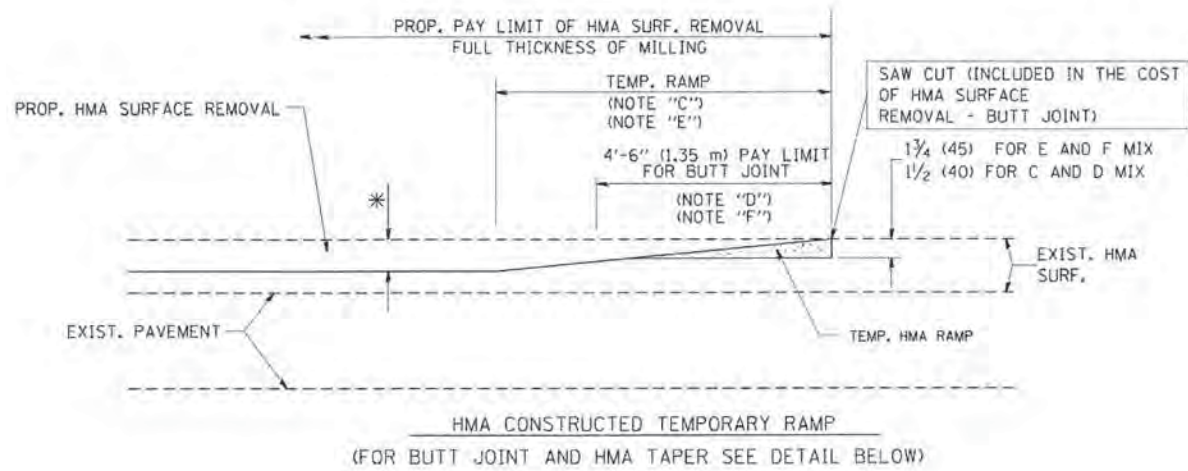
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F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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BD500-01 (BD-7)			CONTRACT NO.	61C06
FED. ROAD DIST. NO. 1 (ILLINOIS) FED. AID PROJECT				

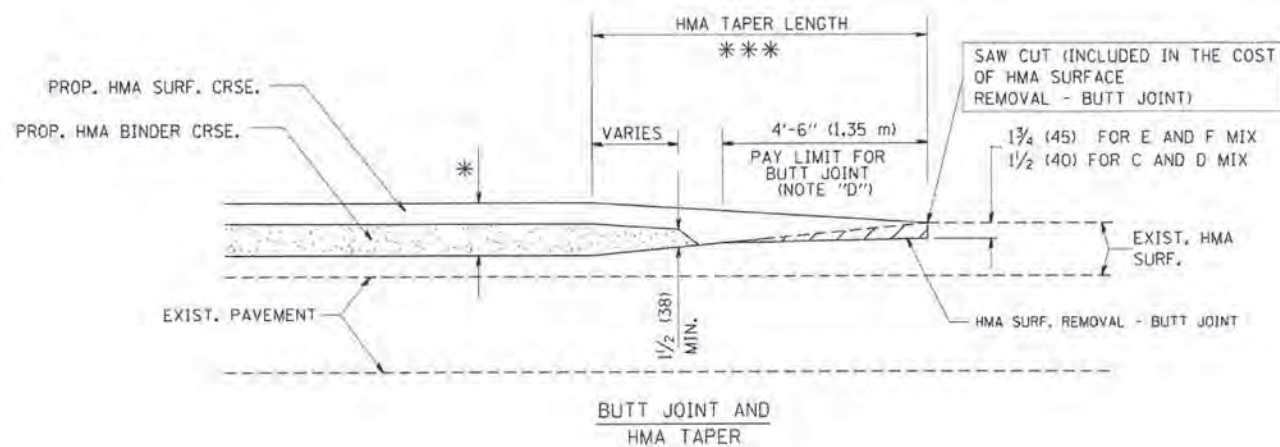




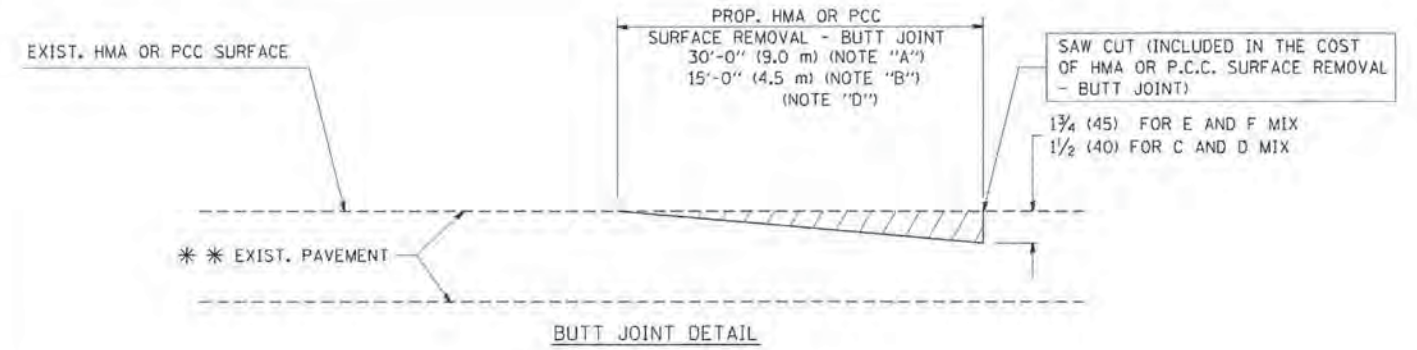
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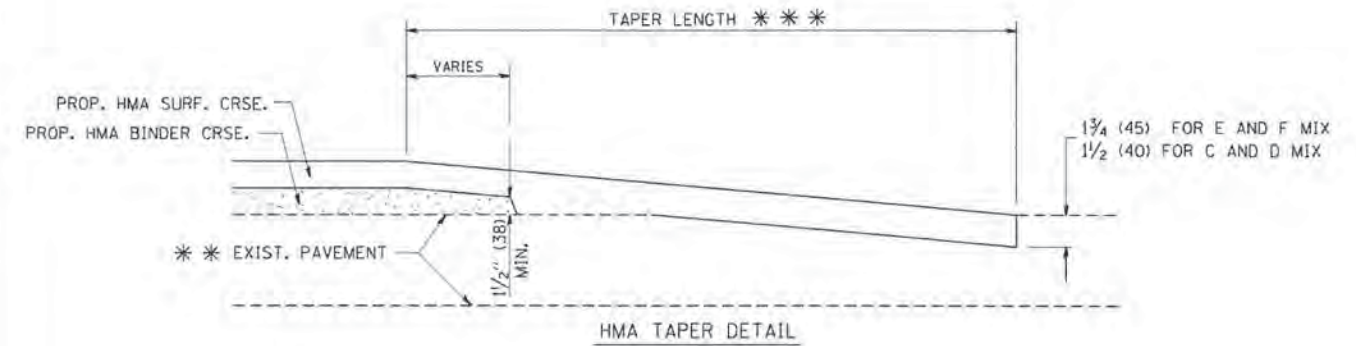
OPTION 2  
TYPICAL TEMPORARY RAMP



TYPICAL BUTT JOINT AND HMA TAPER  
FOR MILLING AND RESURFACING



BUTT JOINT DETAIL



HMA TAPER DETAIL

TYPICAL BUTT JOINT AND HMA TAPER  
FOR RESURFACING ONLY

\* \* \* PC CONCRETE, HMA OR HMA RESURFACED PAVEMENT.

NOTES

- A: MAINLINE ROADWAYS AND MAJOR SIDE ROADS.
- B: MINOR SIDE ROADS.
- C: THE TEMP. RAMP SHALL BE CONSTRUCTED IMMEDIATELY UPON REMOVAL OF THE EXISTING HMA SURFACE.
- D: THE BUTT JOINT SHALL BE CONSTRUCTED IMMEDIATELY PRIOR TO PLACING THE PROPOSED HMA COURSES.
- E: TAPER THE TEMP. RAMP AT A RATE OF 3'-0" (900 mm) PER 1 INCH (25 mm) OF MILLING THICKNESS.
- F: INSTALLATION AND REMOVAL OF THE 4'-6" (1.35 m) TEMP. RAMP IS INCLUDED IN COST OF HMA SURFACE REMOVAL - BUTT JOINT
- G: SEE ARTICLE 406.08 AND 406.14 OF THE STANDARD SPECIFICATIONS FOR "HMA AND/OR PCC SURFACE REMOVAL - BUTT JOINT".
- \* SEE TYPICAL SECTIONS FOR MILLING THICKNESS.
- \* \* \* 20'-0" (6.1 m) PER 1 (25) RESURFACING (NOTE "A")  
10'-0" (3.0 m) PER 1 (25) RESURFACING (NOTE "B")

BASIS OF PAYMENT:

THE BUTT JOINT WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER SQUARE YARD (SQUARE METER) FOR "HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT" OR FOR "PORTLAND CEMENT CONCRETE SURFACE REMOVAL - BUTT JOINT".

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

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PROJECT CONTACT: \*  
CLIENT: \*  
DATE PLOTTED: \*  
FILE NAME: \*  
PLOT DRIVER: \*  
PEN TABLE: \*

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PLOT DATE = 1/4/2008

DESIGNED - M. DE YONG  
DRAWN -  
CHECKED -  
DATE - 06-13-90

REVISED - R. SHAH 10-25-94  
REVISED - A. ABBAS 03-21-97  
REVISED - M. GOMEZ 04-06-01  
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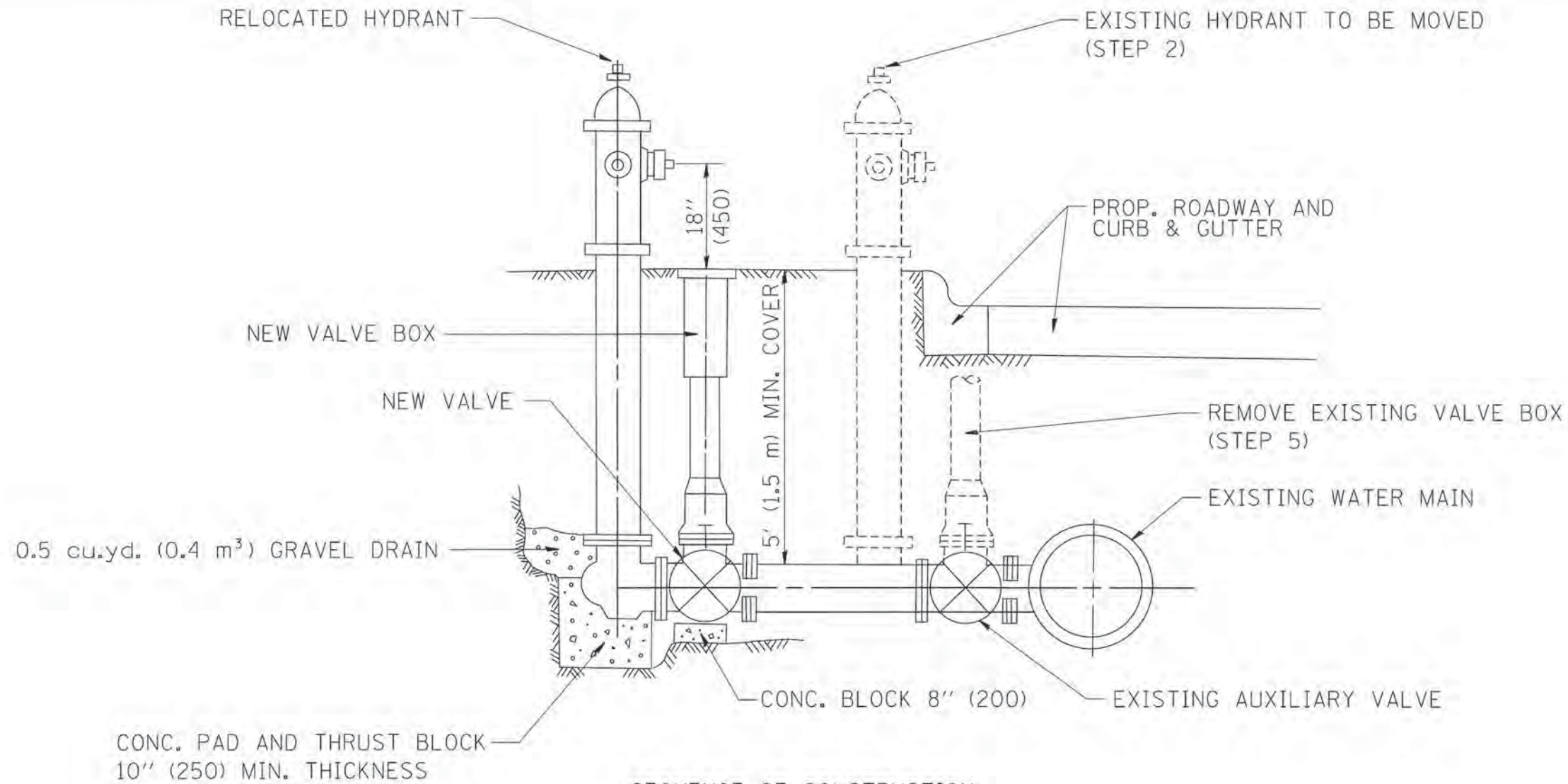
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

BUTT JOINT AND  
HMA TAPER DETAILS

SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2531	10-00292-00-WR	DUPAGE	229	167
BD400-05 BD32			CONTRACT NO. 61C06	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				





SEQUENCE OF CONSTRUCTION:

1. CLOSE EXISTING VALVE.
2. REMOVE EXISTING HYDRANT.
3. INSTALL HYDRANT EXTENSION AND NEW VALVE.
4. RELOCATE EXISTING HYDRANT.
5. OPEN EXISTING VALVE, REMOVE BOX.
6. BACKFILL.
7. FLUSH AND TEST FOR CHLORIDE RESIDUAL AND PROVIDE TEST.

ALL WORK TO BE DONE IN ACCORDANCE WITH ARTICLE 564 OF THE STANDARD SPECIFICATIONS. NEW VALVE AND BOX SHALL BE SAME MAKE AND MODEL AS EXISTING.

FIRE HYDRANT TO BE MOVED

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

COMPANY NAME: #COMPANY NAME #  
 PROJECT CONTACT: #PROJECT CONTACT #  
 CLIENT: #CLIENT #  
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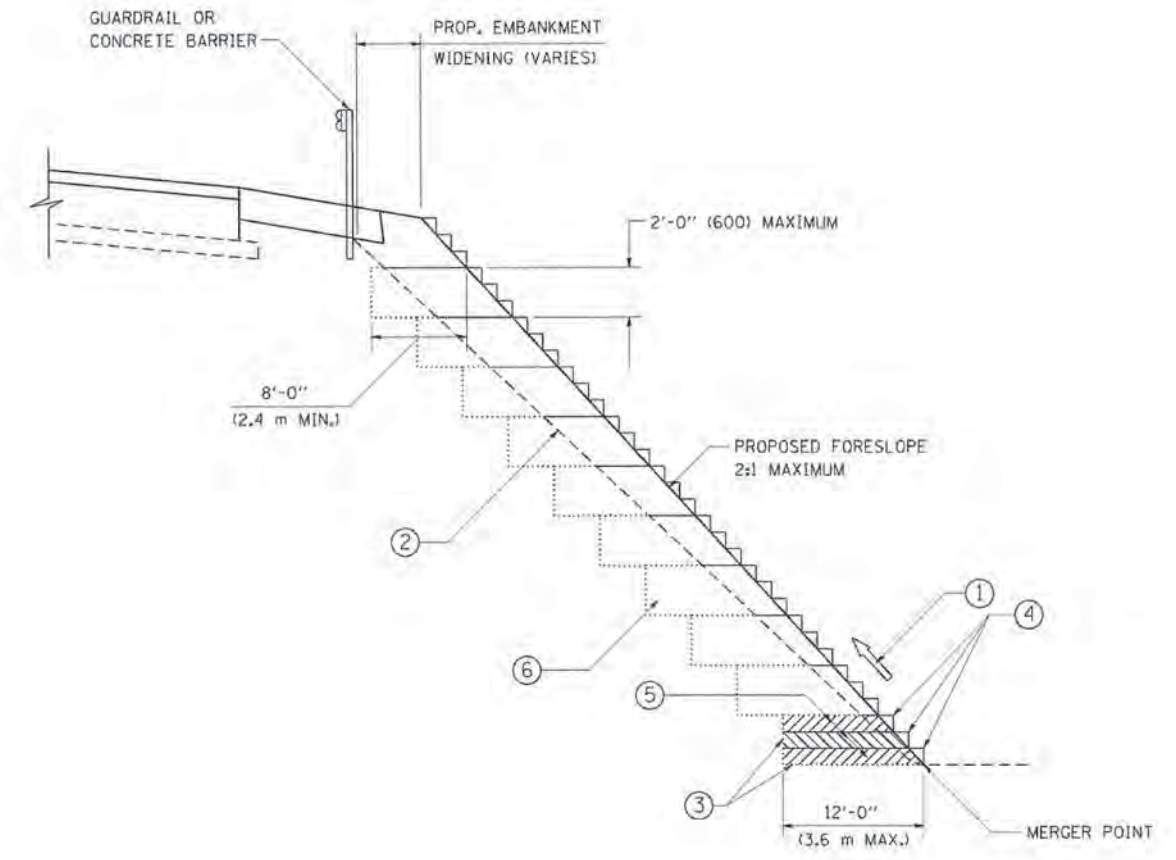
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**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

<b>FIRE HYDRANT TO BE MOVED</b>			
SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.

F.A.U. RTE. 2531	SECTION 10-00292-00-WR	COUNTY DUPAGE	TOTAL SHEETS 229	SHEET NO. 168
<b>BD-36</b>		CONTRACT NO. 61C06		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				





TYPICAL BENCHING DETAIL  
FOR EMBANKMENT

NOTES:

- ① CONSTRUCT SUCCEEDING BENCH CUTS AND EMBANKMENT PLACEMENT AND COMPACTION FROM BOTTOM TO TOP IN STAIRSTEP FASHION.
- ② EXISTING FORESLOPE PREPARED IN ACCORDANCE WITH ARTICLE 205.03 OF THE STANDARD SPECIFICATIONS.
- ③ BENCH CUT EXISTING SLOPE TYPICAL FOR EACH STEP.
- ④ TRIM TO FINAL SLOPE.
- ⑤ EQUAL 8-INCH (200) LIFTS OF EMBANKMENT COMPACTED IN ACCORDANCE WITH ARTICLE 205.05 OF THE STANDARD SPECIFICATIONS.
- ⑥ EXCAVATION OF BENCH CUTS WITHIN EXISTING EMBANKMENT WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER CUBIC METER OR CUBIC YARD FOR "EARTH EXCAVATION". THIS PRICE WILL INCLUDE ALL LABOR AND MATERIAL, NO ADDITIONAL COMPENSATION WILL BE ALLOWED.
- ⑦ SLOPES SHALL BE BENCHED ACCORDING TO THIS DETAIL WHEN THE SLOPE IS STEEPER THAN 4:1 AND THE HEIGHT IS GREATER THAN 5' (1.5 m).

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS)  
UNLESS OTHERWISE SHOWN.

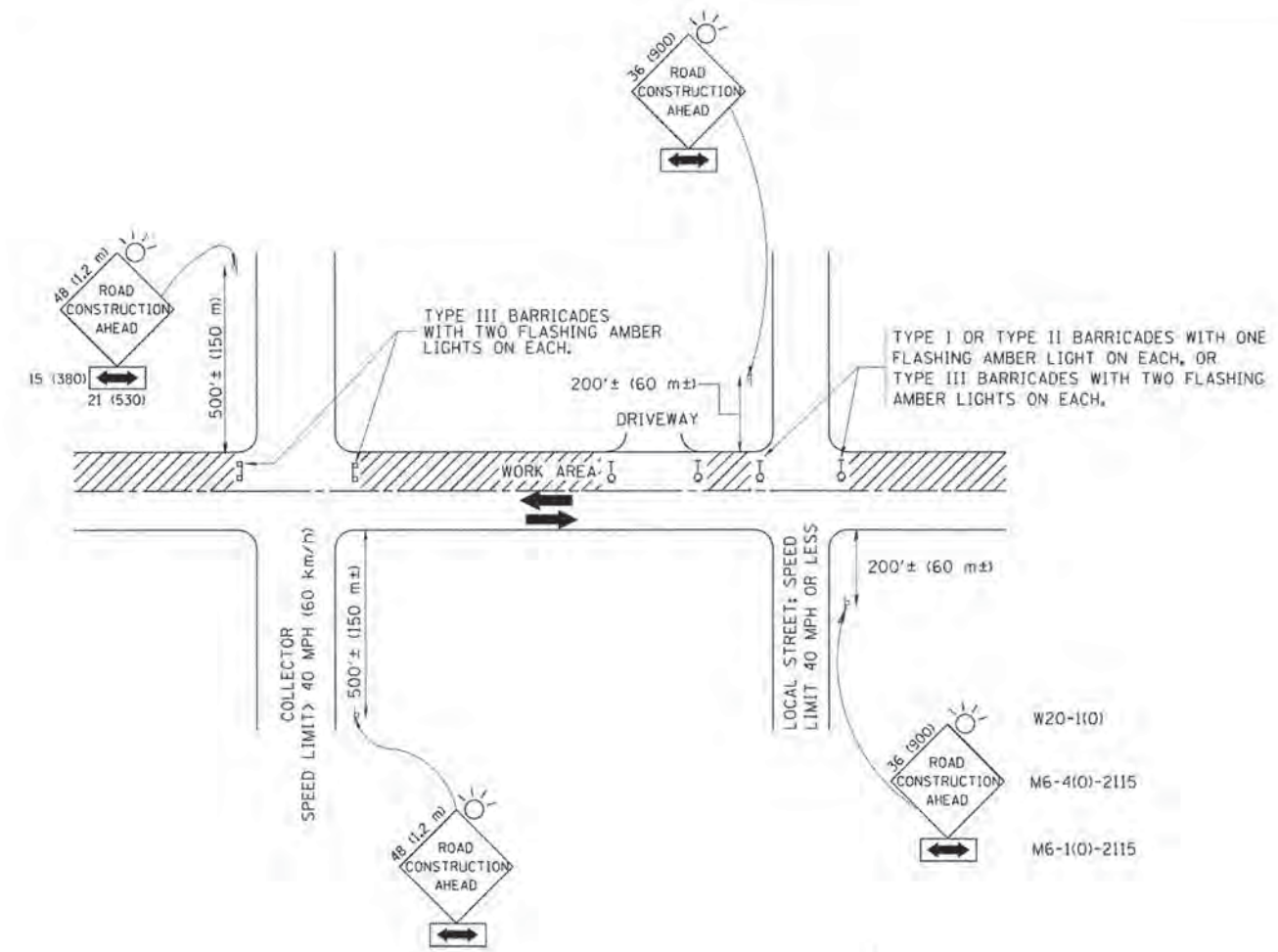
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PROJECT CONTACT: JACOBY JAMES  
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PLOT SCALE = 50:1 (1" = 50')			
PLOT DATE = 1/4/2008			

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

BENCHING DETAIL FOR EMBANKMENT WIDENING		F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	2531	10-00292-00-WR	DUPAGE	229	169
	STA. TO STA.	BD-51		CONTRACT NO. 61C06		
FED. ROAD DIST. NO. 1 (ILLINOIS) FED. AID PROJECT						





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

NOTES:

- A. FOR NO LANE RESTRICTION ON THE SIDE ROAD OR DRIVEWAYS
  1. 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:
    - a) ONE ROAD CONSTRUCTION AHEAD SIGN 36 x 36 (900x900) WITH A FLASHER AND FLAG MOUNTED ON IT APPROXIMATELY 200' (60 m) IN ADVANCE OF THE MAIN ROUTE.
    - b) 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.
  2. SIDE ROAD WITH A SPEED LIMIT GREATER THAN 40 MPH (60 km/h) AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
    - a) 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.
    - b) THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE III BARRICADES, 1/2 OF THE CROSS SECTION OF THE CLOSED PORTION.
  3. WHEN THE SIDE ROAD LIES BETWEEN THE BEGINNING OF THE MAINLINE SIGNING AND THE WORK ZONE, A SINGLE HEADED ARROW (M6-1) SHALL BE USED IN LIEU OF THE DOUBLE HEADED ARROW (M6-4).
- B. FOR A LANE CLOSURE ON A SIDE ROAD OR DRIVEWAY:
 

USE APPLICABLE PORTIONS OF THE TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES (STD. 701501, STD. 701606 OR THE APPROPRIATE STANDARD). THE SPACING OF SIGNS AND BARRICADES SHALL BE ADJUSTED FOR FIELD CONDITIONS AS DIRECTED BY THE ENGINEER. THE DIRECTIONAL ARROW SHALL BE COVERED OR REMOVED WHEN NO LONGER CONSISTENT WITH THE SIDE ROAD LANE CLOSURE.
- C. ADVANCE WARNING SIGNS ARE TO BE OMITTED ON DRIVEWAY UNLESS OTHERWISE NOTED.
- D. THE TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS SHALL BE INCIDENTAL TO THE COST OF SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.

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

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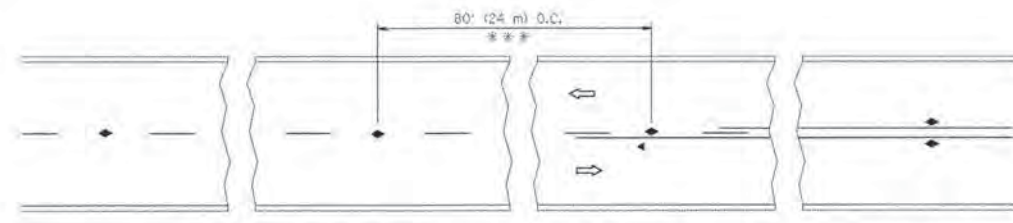
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		CHECKED -	REVISED -
			A. HOUSEH 10-15-96
		DATE -	REVISED -
		06-89	T. RAMMACHER 01-06-00

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

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

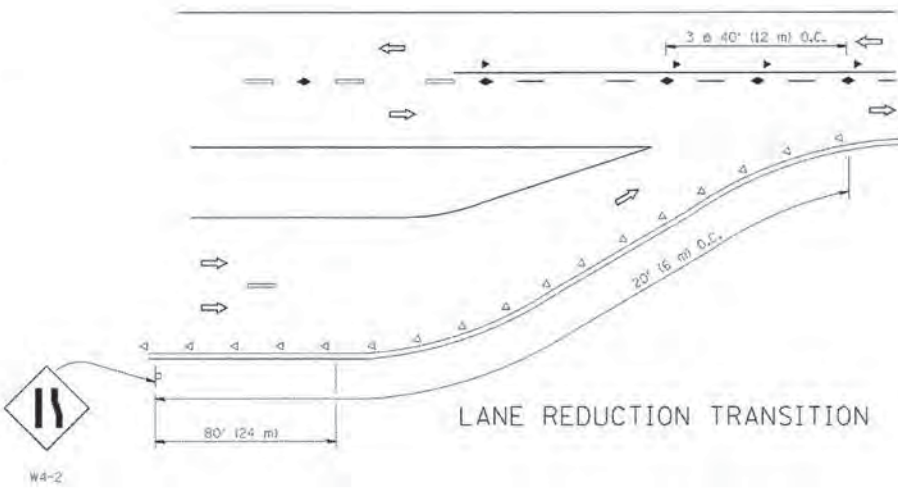
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FED. ROAD DIST. NO. 1 (ILLINOIS) FED. AID PROJECT				



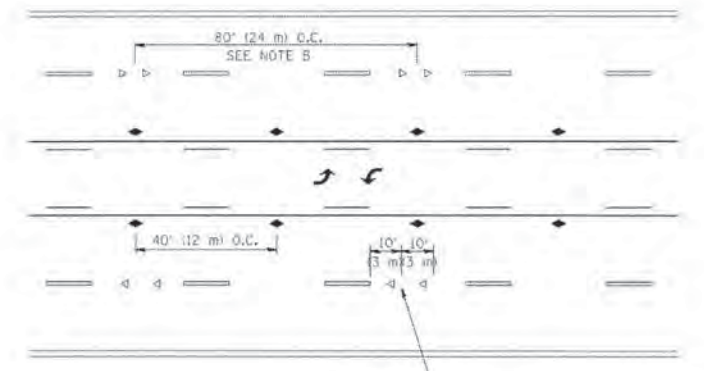


\*\*\* REDUCE TO 40' (12 m) O.C. ON CURVES WITH POSTED OR ADVISORY SPEED 45 M.P.H. (70 km/h) OR LESS.

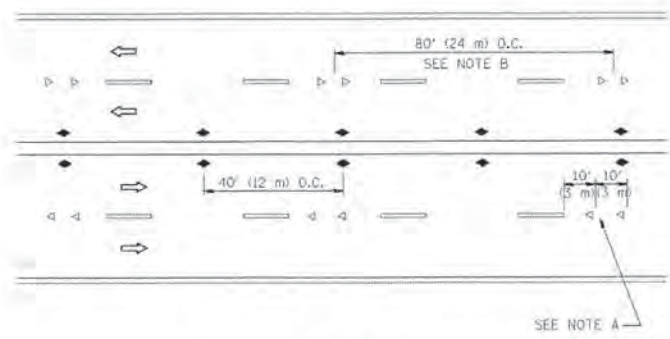
TWO-LANE/TWO-WAY



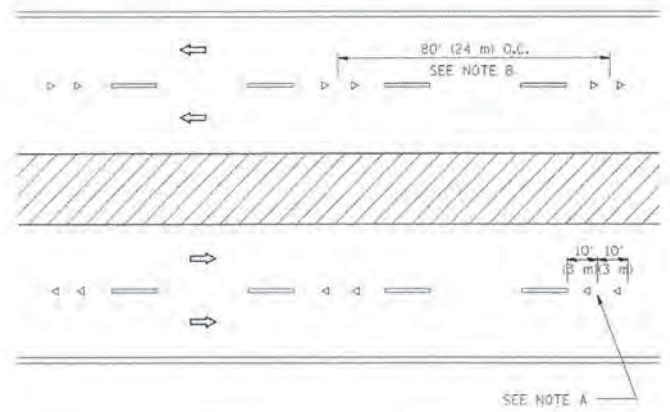
LANE REDUCTION TRANSITION



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.

SYMBOLS

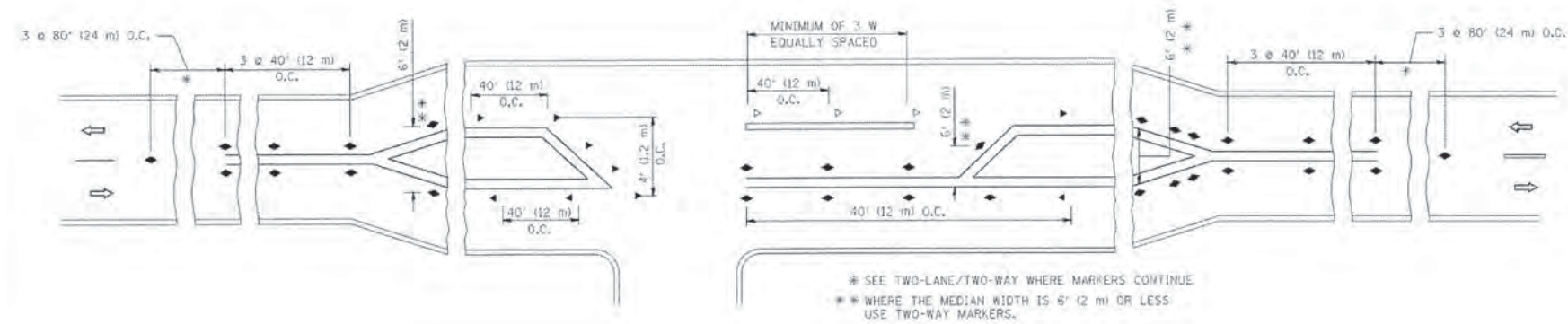
- YELLOW STRIPE
- WHITE STRIPE
- ▲ ONE-WAY AMBER MARKER
- ◁ ONE-WAY CRYSTAL MARKER (W/O)
- ◆ TWO-WAY AMBER MARKER

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 (16 km/h) LOWER THAN POSTED SPEEDS.

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

\* SEE TWO-LANE/TWO-WAY WHERE MARKERS CONTINUE  
 \*\* WHERE THE MEDIAN WIDTH IS 6' (2 m) OR LESS USE TWO-WAY MARKERS.

COMPANY NAME: \* COMPANY CONTACTS  
 PROJECT CONTACT: \* PROJECT CONTACTS  
 CLIENT: \* CLIENTS  
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STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

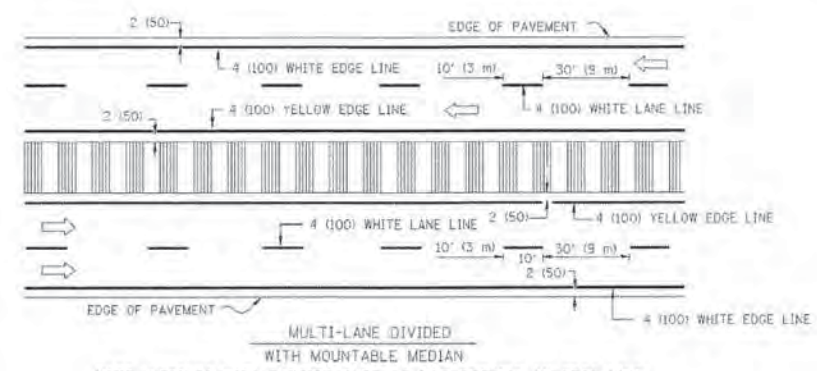
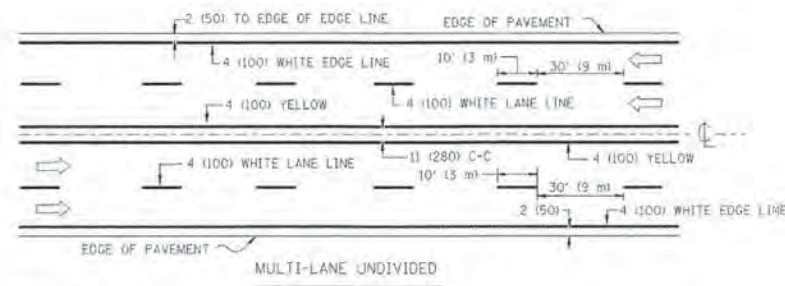
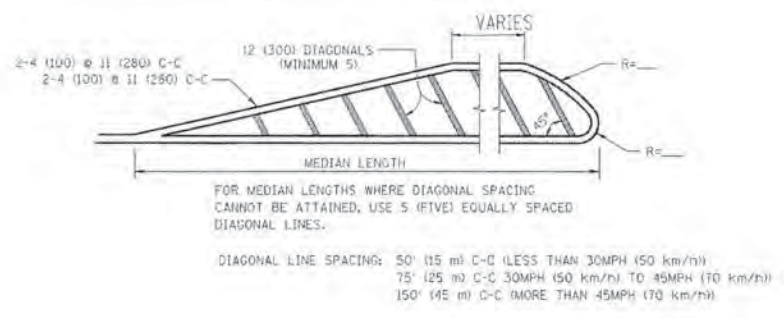
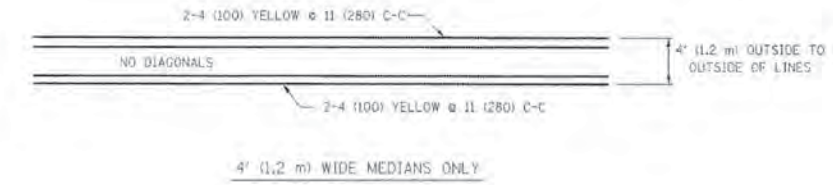
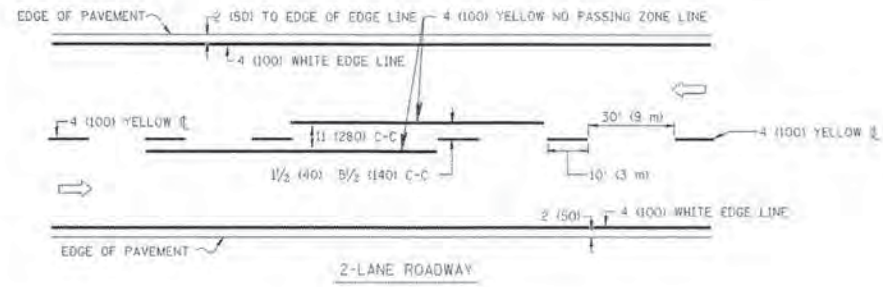
TYPICAL APPLICATIONS  
 RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT)

SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.

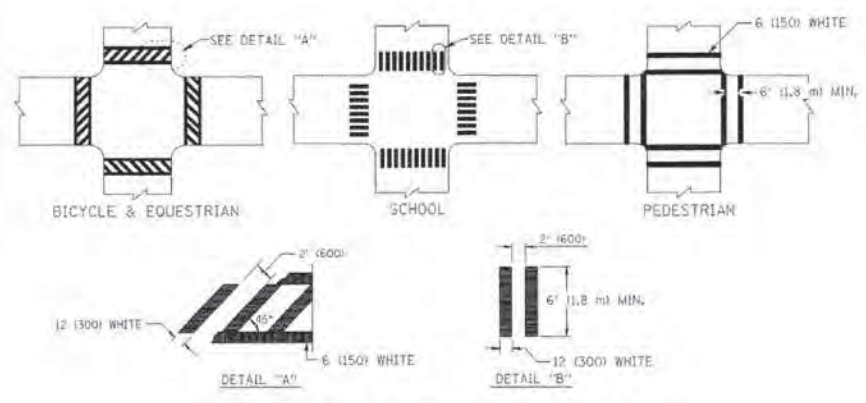
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TC-11			CONTRACT NO. 61C06	
FED. ROAD DIST. NO. 1 (ILLINOIS) FED. AID PROJECT				

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

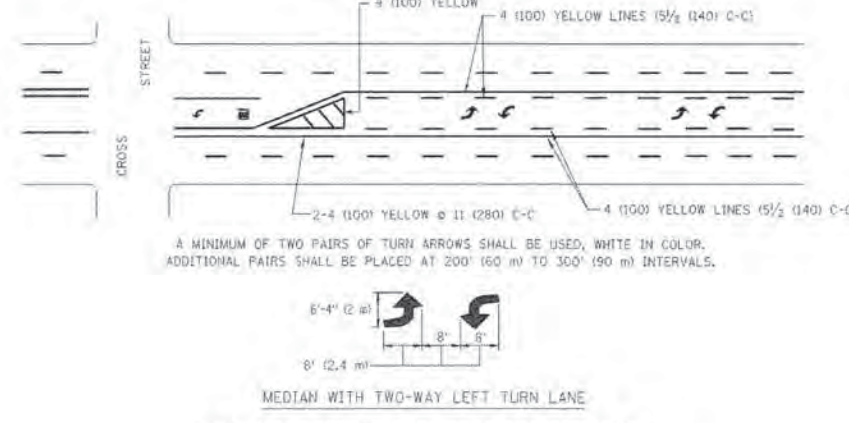




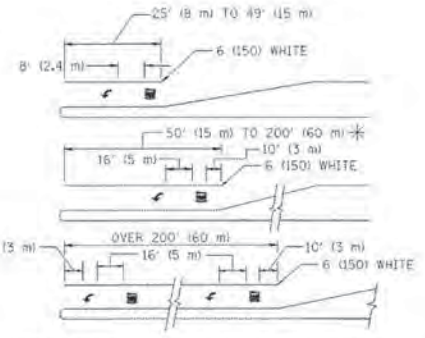
TYPICAL LANE AND EDGE LINE MARKING



TYPICAL CROSSWALK MARKING



TYPICAL PAINTED MEDIAN MARKING

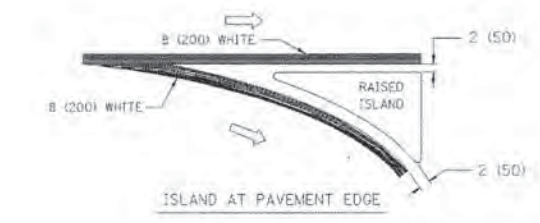
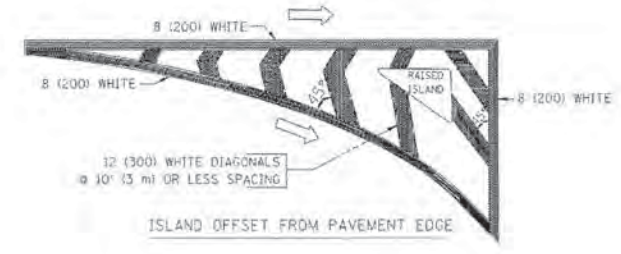


FULL SIZE LETTERS 8" (2.0 m) AND ARROWS SHALL BE USED.  
AREA = 15.6 SQ. FT. (1.5 m<sup>2</sup>) ONLY AREA = 20.8 SQ. FT. (1.9 m<sup>2</sup>)

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

TYPICAL LEFT (OR RIGHT) TURN LANE

TYPICAL TURN LANE MARKING



TYPICAL ISLAND MARKING

TYPE OF MARKING	WIDTH OF LINE	PATTERN	COLOR	SPACING / REMARKS
CENTERLINE ON 2-LANE PAVEMENT	4 (100)	SKIP-DASH	YELLOW	10' (3 m) LINE WITH 30' (9 m) SPACE
CENTERLINE ON MULTI-LANE UNDIVIDED PAVEMENT	2 @ 4 (100)	SOLID	YELLOW	11 (280) C-C
NO PASSING ZONE LINES FOR ONE DIRECTION FOR BOTH DIRECTIONS	4 (100) 2 @ 4 (100)	SOLID SOLID	YELLOW YELLOW	5/2 (140) C-C FROM SKIP-DASH CENTERLINE 11 (280) C-C OMIT SKIP-DASH CENTERLINE BETWEEN
LANE LINES	4 (100) 5 (125) ON FREEWAYS	SKIP-DASH SKIP-DASH	WHITE WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE
DOTTED LINES (EXTENSIONS OF CENTER, LANE OR TURN LANE MARKINGS)	SAME AS LINE BEING EXTENDED	SKIP-DASH	SAME AS LINE BEING EXTENDED	2' (600) LINE WITH 6' (1.8 m) SPACE
EDGE LINES	4 (100)	SOLID	YELLOW-LEFT WHITE-RIGHT	OUTLINE MOUNTABLE MEDIANS IN YELLOW; EDGE LINES ARE NOT USED NEXT TO BARRIER CURB
TURN LANE MARKINGS	6 (150) LINE; FULL SIZE LETTERS & SYMBOLS (6" (2.4 m))	SOLID	WHITE	SEE TYPICAL TURN LANE MARKING DETAIL
TWO-WAY LEFT TURN MARKING	2 @ 4 (100) EACH DIRECTION 8" (2.4 m) LEFT ARROW	SKIP-DASH AND SOLID IN PAIRS	YELLOW WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE FOR SKIP-DASH; 5/2 (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 6" (1.8 m) LETTERS; 16 (400) LINE FOR "X"	SOLID	WHITE	SEE STATE STANDARD 780001 AREA OF: "R" = 3.6 SQ. FT. (0.33 m <sup>2</sup> ) EACH "X" = 54.0 SQ. FT. (5.0 m <sup>2</sup> )
SHOULDER DIAGONALS	12 (300) @ 45°	SOLID	WHITE - RIGHT YELLOW - LEFT	50' (15 m) C-C (LESS THAN 30MPH (50 km/h)) 75' (25 m) C-C (30 MPH (50 km/h) TO 45MPH (70 km/h)) 150' (45 m) C-C (OVER 45MPH (70 km/h))

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

All dimensions are in inches/millimeters unless otherwise shown.

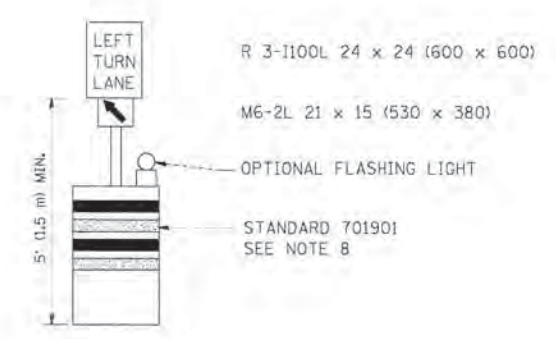
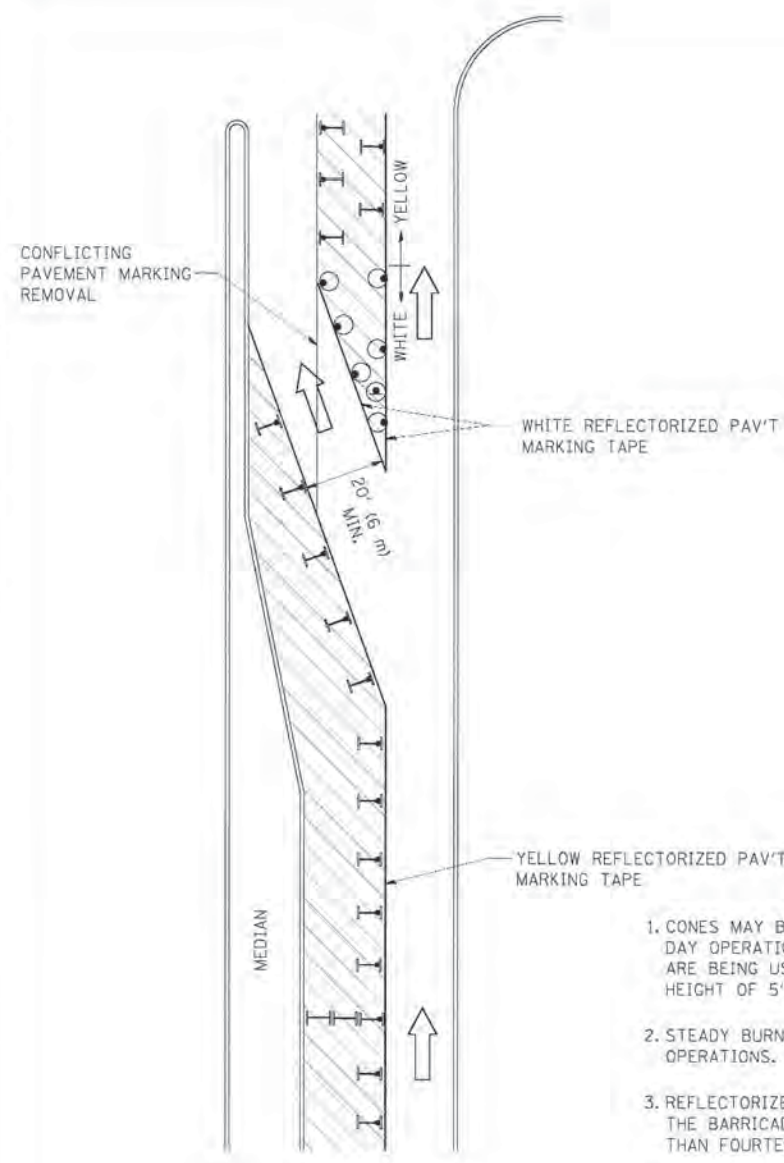
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STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

DISTRICT ONE		F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
TYPICAL PAVEMENT MARKINGS		2531	10-00292-00-WR	DUPAGE	229	172
SCALE: NONE		SHEET NO. 1 OF 1 SHEETS		STA. TO STA.		
		TC-13		CONTRACT NO. 61C06		
FED. ROAD DIST. NO. 1 ILLINOIS/FED. AID PROJECT						











**GENERAL NOTES**

1. 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 CONES ARE BEING USED, THE "LEFT TURN LANE" SIGN MAY BE SKID MOUNTED AT A MINIMUM HEIGHT OF 5' (1.5 m).
2. STEADY BURNING LIGHTS WILL NOT BE REQUIRED ON BARRICADES OR DRUMS FOR DAY OPERATIONS. ALL LIGHTS SHALL BE MONODIRECTIONAL.
3. REFLECTORIZED TEMPORARY PAVEMENT MARKING TAPE SHALL BE PLACED THROUGHOUT THE BARRICADED AREA OF EACH TURN BAY WHERE THE CLOSURE TIME IS GREATER THAN FOURTEEN DAYS.
4. THIS APPLICATION ALSO APPLIES WHEN WORK IS BEING PERFORMED IN THE RIGHT LANE(S) AND THE RIGHT TURN BAY IS TO REMAIN OPEN. UNDER THIS CONDITION, "RIGHT TURN LANE" R3-100 24 x 24 (600 x 600) AND M6-2R 21 x 15 (530 x 380) SHALL BE USED.
5. THESE CONTROLS SHALL SUPPLEMENT MAINLINE TRAFFIC CONTROL FOR LANE CLOSURES.
6. LONGITUDINAL DIMENSIONS MAY BE ADJUSTED TO FIT FIELD CONDITIONS.
7. FORM OPER 725 IS REQUIRED.
8. IF A DRUM OR TYPE II BARRICADE WITH AN ATTACHED SIGN PANEL WHICH MEETS NCHRP 350 REQUIREMENTS IS NOT AVAILABLE, THE SIGNS SHALL BE MOUNTED, ABOVE THE BARRICADES, ON SEPARATE SIGNS SUPPORTS THAT MEET NCHRP 350 REQUIREMENTS.
9. TRAFFIC CONTROL AND PROTECTION AT TURN BAYS (TO REMAIN OPEN TO TRAFFIC) SHALL BE INCLUDED IN THE COST SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.

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

**LEGEND**

-  WORK AREA
-  LANE OPEN TO TRAFFIC
-  TYPE I OR II BARRICADE WITH STEADY BURN LIGHT
-  DRUM WITH STEADY BURN LIGHT
-  DRUM WITH SIGN (WITH OPTIONAL FLASHING LIGHT) SEE DETAIL
-  TYPE I OR II CHECK BARRICADE WITH FLASHING LIGHT

COMPANY NAME: #PROJECT CONTACTS  
 PROJECT CONTACT: #CLIENT#  
 DATE PLOTTED: 10/30/2015 9:26:24 AM  
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PROJECT DATE: 5/9/12/2009	PROJECT DATE: 5/9/12/2009	REVISED: T. RAMMACHER 01-06-00	REVISED: T. RAMMACHER 01-06-00

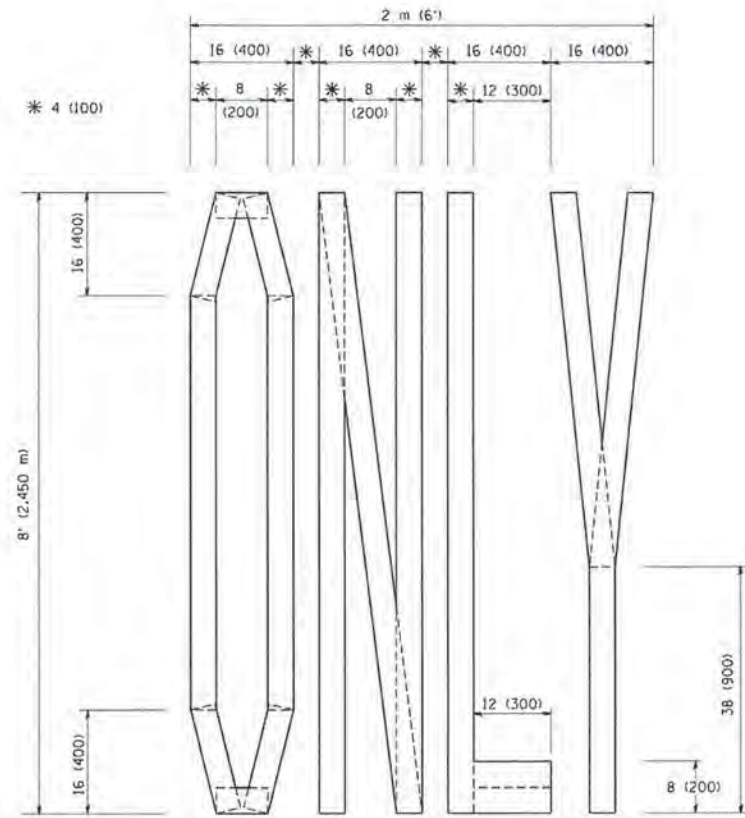
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**TRAFFIC CONTROL AND PROTECTION AT TURN BAYS  
(TO REMAIN OPEN TO TRAFFIC)**

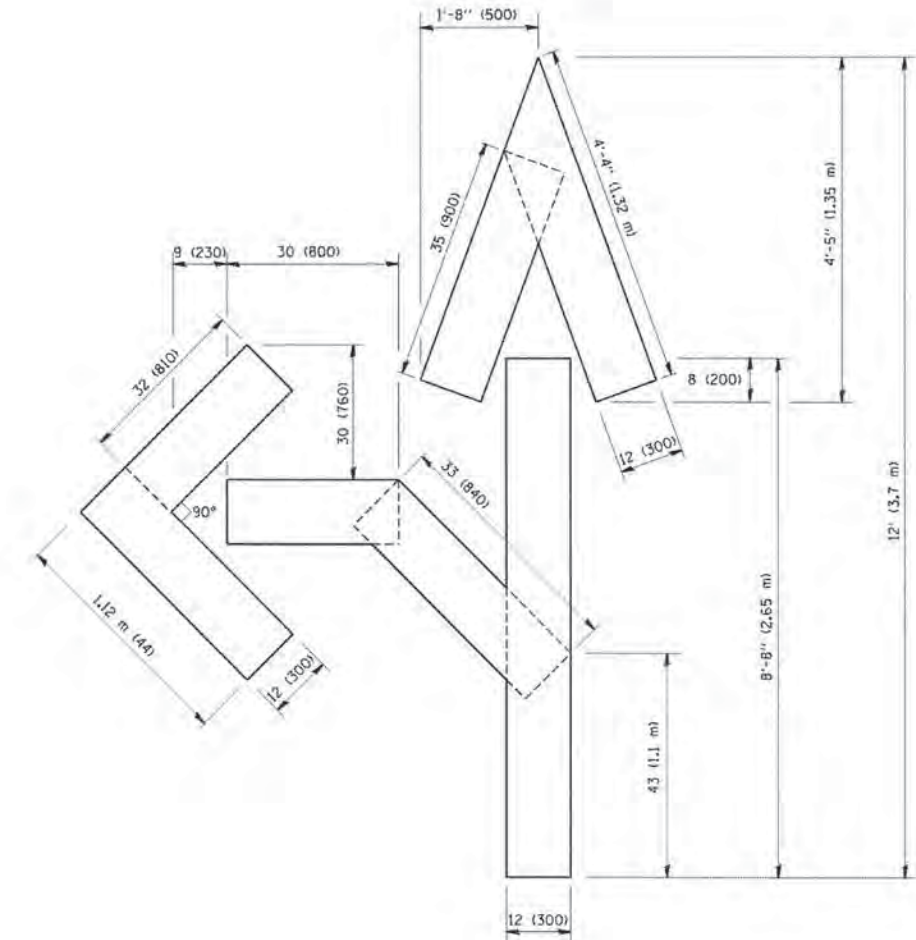
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F.A.U. RTE. 2531	SECTION 10-00292-00-WR	COUNTY DUPAGE	TOTAL SHEETS 229	SHEET NO. 173
<b>TC-14</b>		CONTRACT NO. 61C06		
FED. ROAD DIST. NO. 1 (ILLINOIS) FED. AID PROJECT				

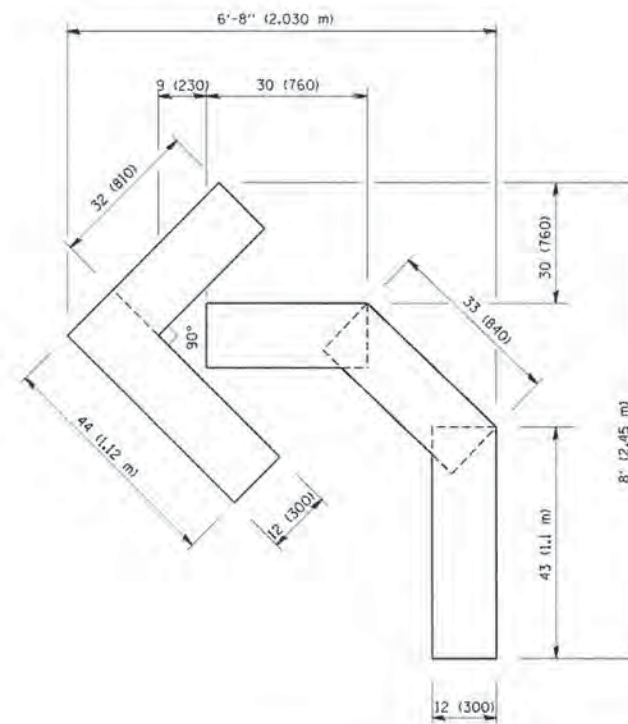




QUANTITY  
 4 (100) LINE = 64.1 ft. (19.7 m)  
 21.1 sq. ft. (1.97 sq. m)



QUANTITY  
 4 (100) LINE = 82.5 ft. (25.3 m)  
 27.5 sq. ft. (2.53 sq. m)



QUANTITY  
 4 (100) LINE = 45.5 ft. (13.9 m)  
 15.2 sq. ft. (1.39 sq. m)

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

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	PLOT DATE = 1/4/2008	DATE - 09-18-94	REVISED -E. GOMEZ 08-28-00

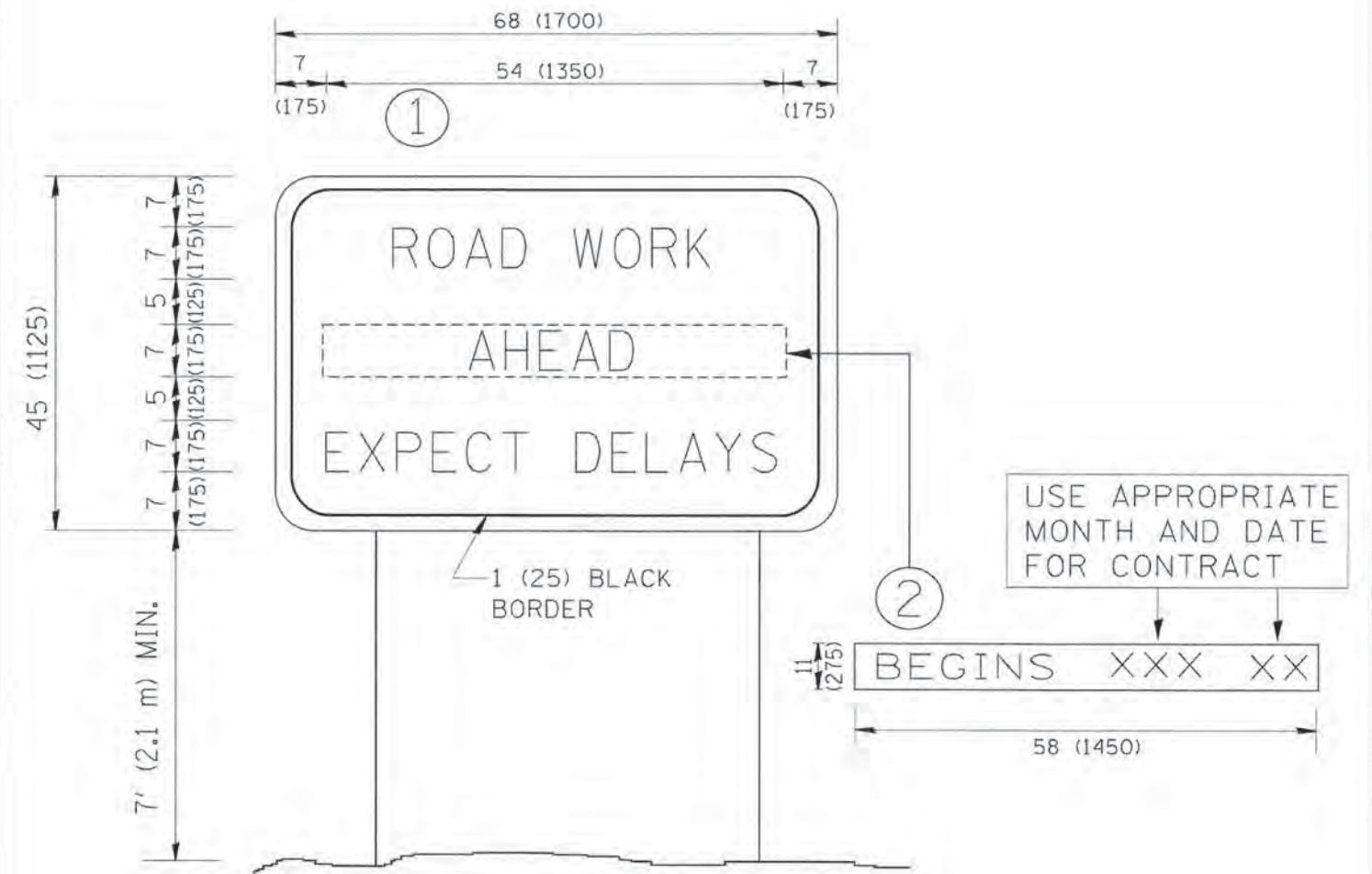
STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING LETTERS AND SYMBOLS  
 FOR TRAFFIC STAGING

SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.

F.A.U. RTE. 2531	SECTION 10-00292-00-WR	COUNTY DUPAGE	TOTAL SHEETS 229	SHEET NO. 174
TC-16			CONTRACT NO. 61C06	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				





**NOTES:**

1. USE BLACK LETTERING ON ORANGE BACKGROUND.
2. ERECT SIGNS IN ADVANCE OF THE LOCATION FOR THE "ROAD CONSTRUCTION AHEAD" SIGN AT LOCATIONS AS DIRECTED BY THE ENGINEER.
3. ERECT SIGN ① WITH INSTALLED PANEL ② ONE WEEK PRIOR TO THE START OF CONSTRUCTION.
4. REMOVE PANEL ② SOON AFTER THE START OF CONSTRUCTION.
5. SEE SPECIAL PROVISION FOR "TEMPORARY INFORMATION SIGNING" FOR ADDITIONAL INFORMATION.
6. ONE SIGN ASSEMBLY EQUALS 25.70 SQ. FT. (2.3 SQ. M.)
7. SHALL BE PAID FOR AS TEMPORARY INFORMATION SIGNING.

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

COMPANY NAME: #COMPANY NAME  
 PROJECT CONTACT: #PROJECT CONTACT#  
 CLIENT: #CLIENT#  
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 PLOT NUMBER: 1  
 PEN TABLE: 2075a6a.dwg

FILE NAME: \\s01038\cmt\067-TC22.dgn	USER NAME: geglennos	DESIGNED: -	REVISED: - R, MIRS 09-15-97
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		CHECKED: -	REVISED: - T, RAMMACHER 02-02-99
		DATE: -	REVISED: - C, JUCIUS 01-31-07

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**ARTERIAL ROAD  
 INFORMATION SIGN**

SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2531	10-00292-00-WR	DUPAGE	229	175
<b>TC-22</b>		<b>CONTRACT NO. 61C06</b>		
FED. ROAD DIST. NO. 1 (ILLINOIS) FED. AID PROJECT				







# TRAFFIC SIGNAL LEGEND

ITEM	REMOVAL	EXISTING	PROPOSED	ITEM	REMOVAL	EXISTING	PROPOSED	ITEM	REMOVAL	EXISTING	PROPOSED																		
CONTROLLER CABINET				EMERGENCY VEHICLE LIGHT DETECTOR				ELECTRIC CABLE IN CONDUIT, TRACER, NO. 14 1/C, UNLESS NOTED OTHERWISE																					
RAILROAD CONTROL CABINET				CONFIRMATION BEACON				COAXIAL CABLE																					
COMMUNICATIONS CABINET				HANDHOLE				VENDOR CABLE FOR CAMERA																					
MASTER CONTROLLER				HEAVY DUTY HANDHOLE				COPPER INTERCONNECT CABLE, NO. 18 3 PAIR TWISTED, SHIELDED																					
MASTER MASTER CONTROLLER				DOUBLE HANDHOLE				FIBER OPTIC CABLE NO. 62.5/125, MM12F																					
UNINTERRUPTABLE POWER SUPPLY				JUNCTION BOX				FIBER OPTIC CABLE NO. 62.5/125, MM12F SM12F																					
SERVICE INSTALLATION, (P) POLE OR (G) GROUND MOUNT				UNDERGROUND CONDUIT, GALVANIZED STEEL (UC)				FIBER OPTIC CABLE NO. 62.5/125, MM12F SM24F																					
TELEPHONE CONNECTION (P) POLE OR (G) GROUND MOUNT				TEMPORARY SPAN WIRE, TETHER WIRE, AND CABLE				FIBER OPTIC CABLE NO. 62.5/125, MM12F SM24F																					
STEEL MAST ARM ASSEMBLY AND POLE				COMMON TRENCH				GROUND ROD AT (C) CONTROLLER, (H) HANDHOLE, (P) POST, (M) MAST ARM, OR (S) SERVICE																					
ALUMINUM MAST ARM ASSEMBLY AND POLE				COILABLE NONMETALLIC CONDUIT (EMPTY)				CONTROLLER CABINET AND FOUNDATION TO BE REMOVED																					
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH LUMINAIRE				SYSTEM ITEM				STEEL MAST ARM POLE AND FOUNDATION TO BE REMOVED																					
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH PTZ CAMERA				INTERSECTION ITEM				ALUMINUM MAST ARM POLE AND FOUNDATION TO BE REMOVED																					
SIGNAL POST				REMOVE ITEM				STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH LUMINAIRE AND FOUNDATION TO BE REMOVED																					
TEMPORARY WOOD POLE (CLASS 5 OR BETTER) 45 FOOT (13.7m) MINIMUM				RELOCATE ITEM				SIGNAL POST AND FOUNDATION TO BE REMOVED																					
GUY WIRE				ABANDON ITEM				INTERSECTION & SAMPLING (SYSTEM) DETECTOR																					
SIGNAL HEAD				12" (300mm) TRAFFIC SIGNAL SECTION				SAMPLING (SYSTEM) DETECTOR																					
SIGNAL HEAD CONSTRUCTION STAGES (NUMBERS INDICATE THE CONSTRUCTION STAGE)				12" (300mm) RED WITH 8" (200mm) YELLOW AND GREEN TRAFFIC SIGNAL FACE				QUEUE DETECTOR																					
SIGNAL HEAD WITH BACKPLATE				SIGNAL FACE				PREFORMED QUEUE DETECTOR																					
SIGNAL HEAD OPTICALLY PROGRAMMED				SIGNAL FACE WITH BACKPLATE, "P" INDICATES PROGRAMMED HEAD				PREFORMED INTERSECTION AND SAMPLING (SYSTEM) DETECTOR																					
FLASHER INSTALLATION (S DENOTES SOLAR POWER)				"RB" INDICATES REFLECTIVE BACKPLATE				PREFORMED SAMPLING (SYSTEM) DETECTOR																					
PEDESTRIAN SIGNAL HEAD				12" (300mm) PEDESTRIAN SIGNAL HEAD WALK/DON'T WALK SYMBOL				<h2 style="margin: 0;">RAILROAD SYMBOLS</h2> <table style="width: 100%; border: none;"> <thead> <tr> <th style="width: 50%;"></th> <th style="width: 25%;">EXISTING</th> <th style="width: 25%;">PROPOSED</th> </tr> </thead> <tbody> <tr> <td>RAILROAD CONTROL CABINET</td> <td></td> <td></td> </tr> <tr> <td>RAILROAD CANTILEVER MAST ARM</td> <td></td> <td></td> </tr> <tr> <td>FLASHING SIGNAL</td> <td></td> <td></td> </tr> <tr> <td>CROSSING GATE</td> <td></td> <td></td> </tr> <tr> <td>CROSSBUCK</td> <td></td> <td></td> </tr> </tbody> </table>					EXISTING	PROPOSED	RAILROAD CONTROL CABINET			RAILROAD CANTILEVER MAST ARM			FLASHING SIGNAL			CROSSING GATE			CROSSBUCK		
	EXISTING	PROPOSED																											
RAILROAD CONTROL CABINET																													
RAILROAD CANTILEVER MAST ARM																													
FLASHING SIGNAL																													
CROSSING GATE																													
CROSSBUCK																													
PEDESTRIAN PUSHBUTTON DETECTOR				12" (300mm) PEDESTRIAN SIGNAL HEAD INTERNATIONAL SYMBOL, OUTLINED																									
ACCESSIBLE PEDESTRIAN PUSHBUTTON DETECTOR				12" (300mm) PEDESTRIAN SIGNAL HEAD INTERNATIONAL SYMBOL, SOLID																									
ILLUMINATED SIGN "NO LEFT TURN"				PEDESTRIAN SIGNAL HEAD, INTERNATIONAL SYMBOL, WITH COUNTDOWN TIMER																									
ILLUMINATED SIGN "NO RIGHT TURN"				RADIO INTERCONNECT																									
DETECTOR LOOP, TYPE I				RADIO REPEATER																									
PREFORMED DETECTOR LOOP				DENOTES NUMBER OF CONDUCTORS, ELECTRIC CABLE NO. 14, UNLESS NOTED OTHERWISE, ALL DETECTOR LOOP CABLE TO BE SHIELDED																									
MICROWAVE VEHICLE SENSOR				GROUND CABLE IN CONDUIT NO. 6 SOLID COPPER (GREEN)																									
VIDEO DETECTION CAMERA																													
VIDEO DETECTION ZONE																													
PAN, TILT, ZOOM CAMERA																													
WIRELESS DETECTOR SENSOR																													
WIRELESS ACCESS POINT																													

COMPANY NAME:   
 PROJECT CONTACT:   
 DATE PLOTTED:   
 PLOT DRIVER:   
 PEN TABLE:

FILE NAME =	USER NAME = Footm	DESIGNED - DAG/BCK	REVISED - DAG 1-1-14
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PLOT SCALE = 50.0000 1/1 in.	CHECKED - DAD	REVISED -	REVISED -
PLOT DATE = 1/13/2014	DATE - 10-28-09	REVISED -	REVISED -

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**DISTRICT ONE**  
**STANDARD TRAFFIC SIGNAL DESIGN DETAILS**

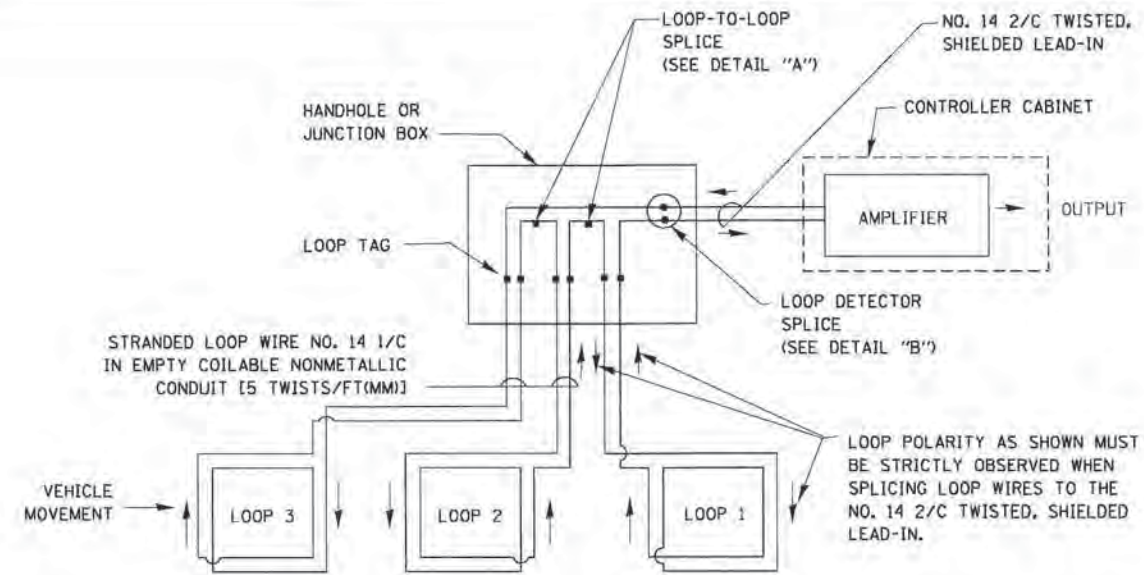
SCALE: NONE    SHEET NO. 1 OF 7 SHEETS    STA.    TO STA.

P.A.U. RTE. 2531	SECTION 10-00292-00-WR	COUNTY DUPAGE	TOTAL SHEETS 229	SHEET NO. 177
TS-05		CONTRACT NO. 61C06		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



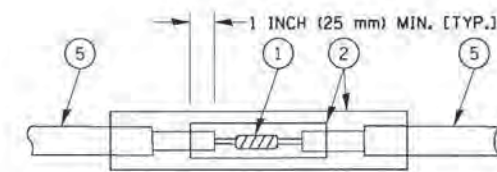
**LOOP DETECTOR NOTES**

- 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.
- 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.
- 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.
- ALL LOOP CABLE SHALL BE FASTENED WITH PLASTIC TIE WRAP TO THE HANDHOLE HOOKS.
- 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.
- 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.
- PERFORMED DETECTOR LOOPS SHALL BE USED, AS SHOWN ON THE PLANS, WHERE NEW CONCRETE PAVEMENT IS PROPOSED. THE INSTALLATION OF PERFORMED LOOPS SHALL BE IN ACCORDANCE WITH THE DISTRICT 1 SPECIFICATIONS OR AS DIRECTED BY THE ENGINEER.

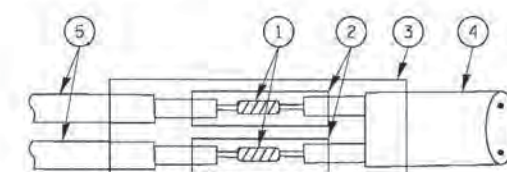


**DETECTOR LOOP WIRING SCHEMATIC**

- 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.

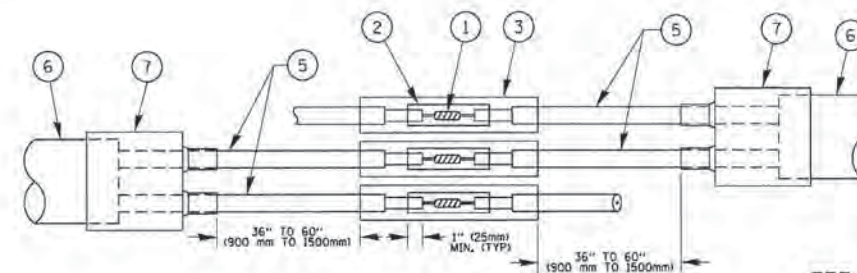


DETAIL "A"  
LOOP-TO-LOOP SPLICE

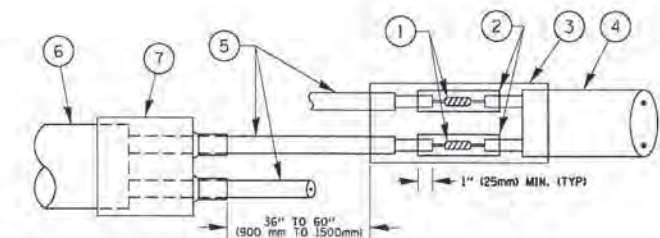


DETAIL "B"  
LOOP-TO-CONTROLLER SPLICE

**TYPE I LOOP**



DETAIL "A"  
LOOP-TO-LOOP SPLICE

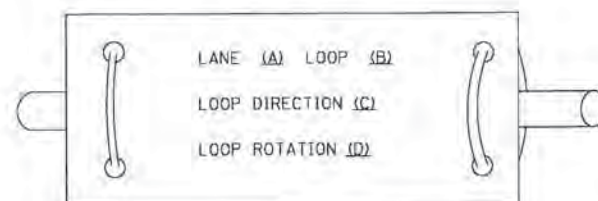


DETAIL "B"  
LOOP-TO-CONTROLLER SPLICE

**PRE-FORMED LOOP**

**LOOP DETECTOR SPLICE**

**LOOP LEAD-IN CABLE TAG**



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

- WESTERN UNION SPLICE SOLDERED WITH ROSIN CORE FLUX. ALL EXPOSED SURFACES OF THE SOLDER SHALL BE SMOOTH, THE WESTERN UNION SPLICES SHALL BE STAGGERED.
- WCSMW 30/100 HEAT SHRINK TUBE, MINIMUM LENGTH 3" (75 mm), UNDERWATER GRADE.
- WCS 200/750 HEAT SHRINK TUBE, MINIMUM LENGTH 6" (150 mm), UNDERWATER GRADE.
- NO. 14 2/C TWISTED, SHIELDED CABLE.
- LOOP CONDUCTOR WITH FLEXIBLE PLASTIC TUBE.
- PRE-FORMED LOOP
- XL POLYOLEFIN 2 CONDUCTOR BREAKOUT SEALS, TYCO CBR-2 OR APPROVED EQUAL

COMPANY NAME: PROJECT CONTACT: PROJECT CONTACT: PROJECT CONTACT:  
 CLIENT: DATE PLOTTED: FILE NAME: PLOT DRIVER: PEN TABLE:

FILE NAME: \\p01pe-wor\p01pe\dot\fontem\08188315\1a05.dgn	USER NAME: fontemj	DESIGNED: DAD	REVISED: DAG 1-1-14
		DRAWN: BCK	REVISED:
PLOT SCALE: 50.0000 1/1		CHECKED: DAD	REVISED:
PLOT DATE: 1/13/2014		DATE: 10-28-09	REVISED:

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**DISTRICT ONE  
STANDARD TRAFFIC SIGNAL DESIGN DETAILS**

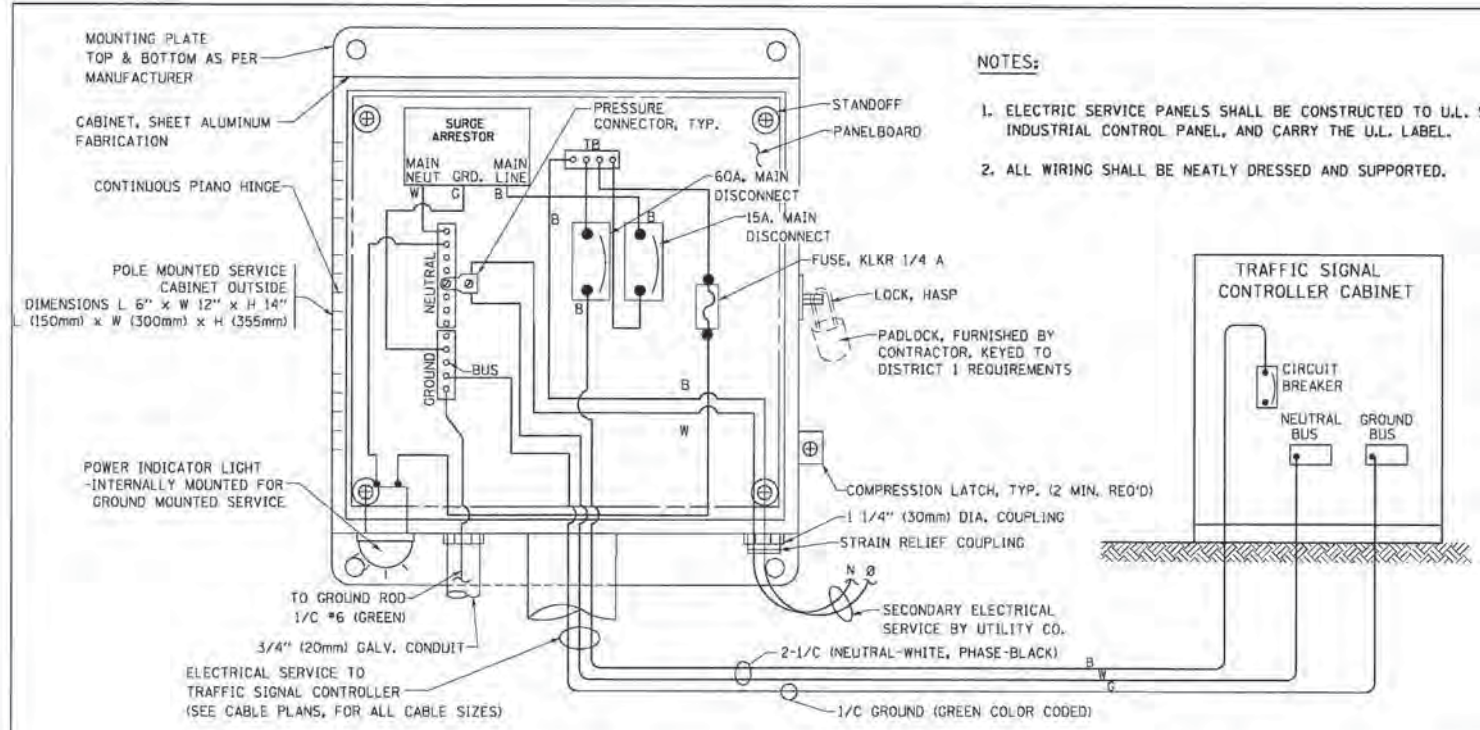
SCALE: NONE SHEET NO. 2 OF 7 SHEETS STA. TO STA.

F.A.U. RTE. 253J	SECTION 10-00292-00-WR	COUNTY DUPAGE	TOTAL SHEETS 229	SHEET NO. 178
TS-05		CONTRACT NO. 61C06		
FED. ROAD DIST. NO. 1 [ILLINOIS] FED. AID PROJECT				

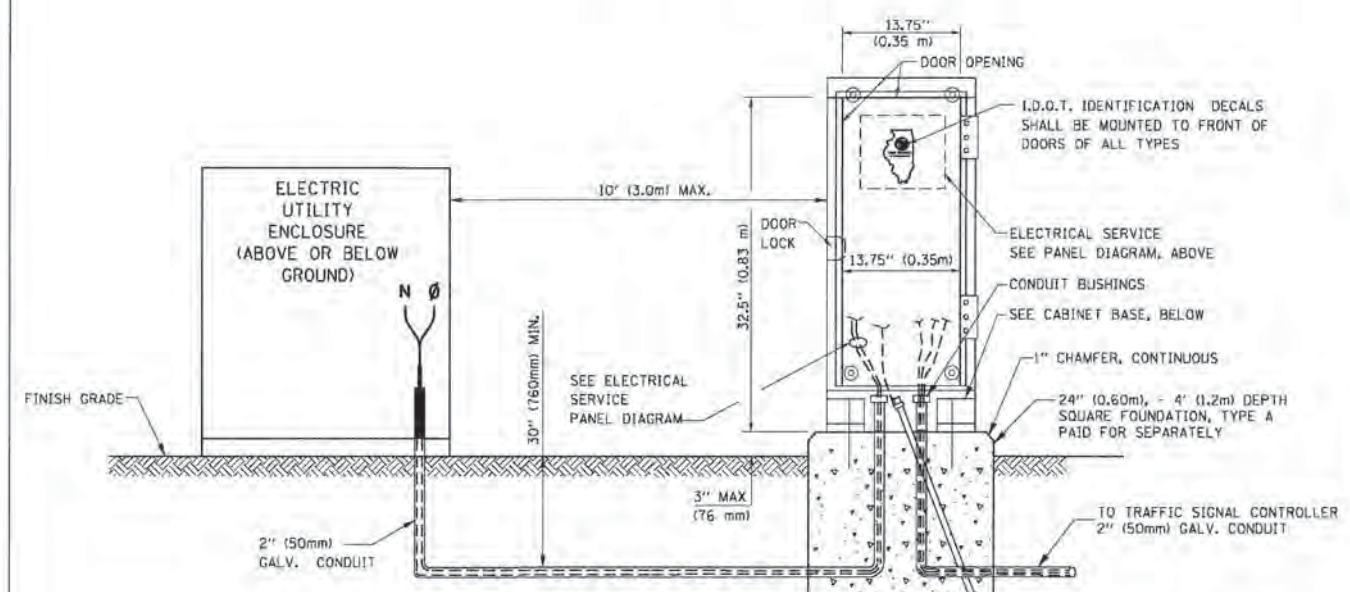




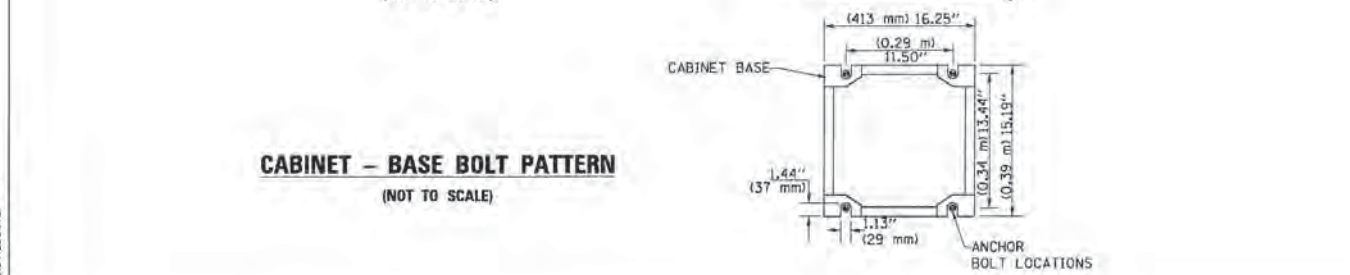




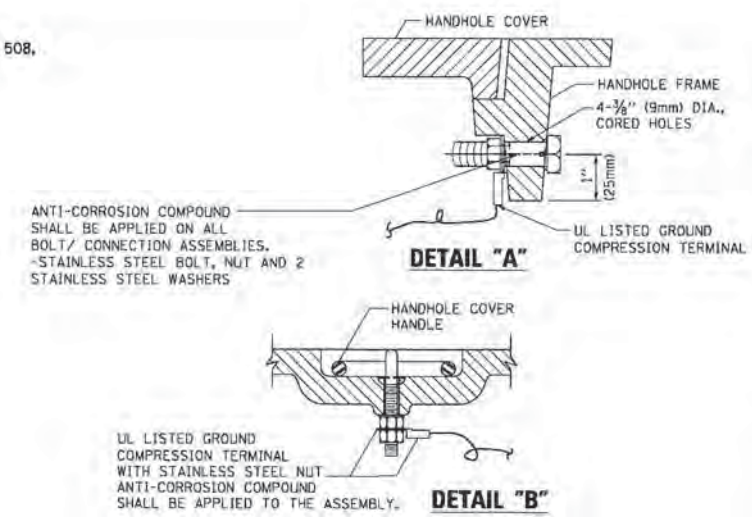
**ELECTRICAL SERVICE - PANEL DIAGRAM (TYPICAL FOR POLE AND GROUND MOUNTED SERVICE)**  
**SERVICE INSTALLATION POLE MOUNT (SHOWN)**  
 (NOT TO SCALE)



**SERVICE INSTALLATION GROUND MOUNT**  
 (NOT TO SCALE)

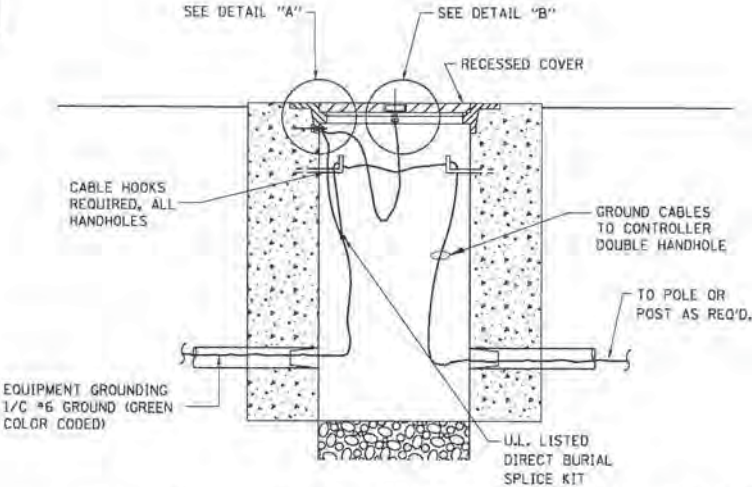


**CABINET - BASE BOLT PATTERN**  
 (NOT TO SCALE)

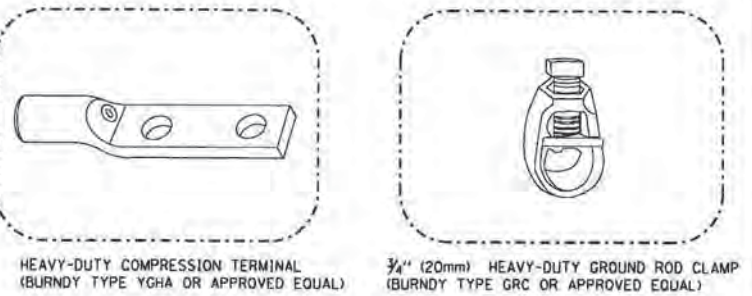


**NOTES:**  
**GROUNDING SYSTEM**

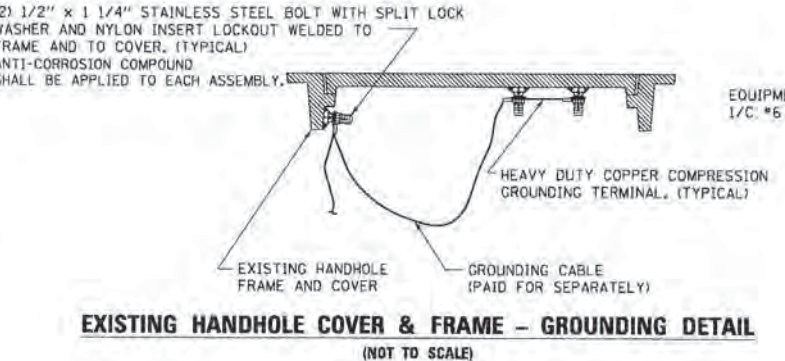
- THE GROUNDING SYSTEM SHALL CONSIST OF AN INSULATED CONDUCTOR TYPE XLP, NO. 6 A.W.G., STRANDED COPPER TO BE INSTALLED IN RACEWAYS, THE GROUNDING CABLE SHALL BE INSTALLED IN A CONTINUOUS MANNER AS SHOWN ON THE CABLE PLAN PROVIDED. ALL GROUNDING CONDUCTORS SHALL BE BONDED TO METAL ENCLOSURE (HANDHOLE,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



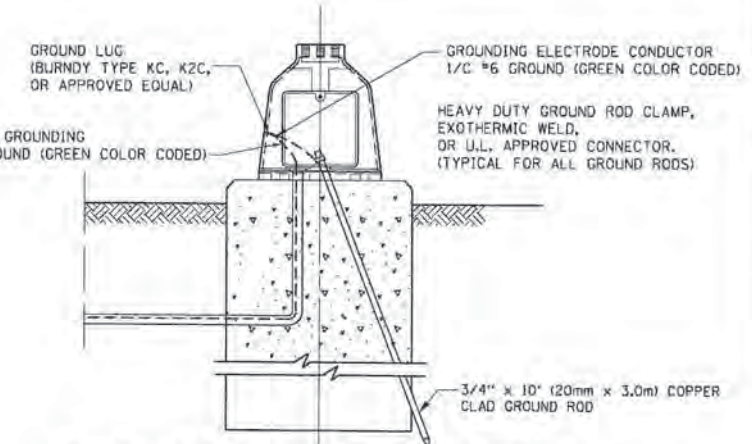
**HANDHOLE COVER & FRAME - GROUNDING DETAIL**  
 (NOT TO SCALE)



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



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



**MAST ARM POLE / POST-GROUNDING DETAIL**  
 (NOT TO SCALE)

COMPANY NAME: PROJECT CONTACT: PROJECT CONTACT: CLEVELAND, OHIO: FILE NAME: PLOT DATE: PEN TABLE:

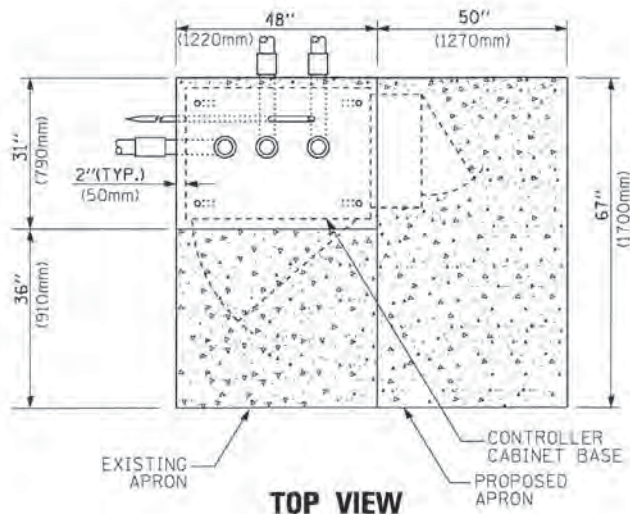
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PROJECT CONTACT =		DRAWN - BCK	REVISED -
CLEVELAND, OHIO:		CHECKED - DAD	REVISED -
FILE NAME:		DATE - 10-28-09	REVISED -
PLOT DATE = 1/13/2014			

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

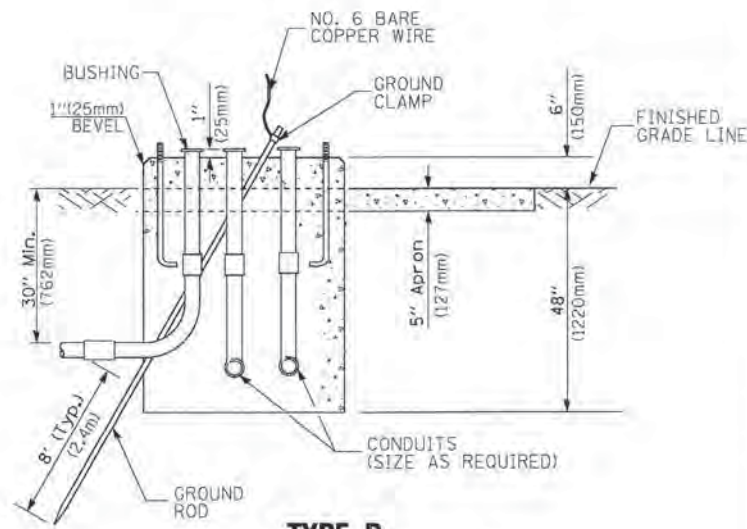
<b>DISTRICT ONE</b>			
<b>STANDARD TRAFFIC SIGNAL DESIGN DETAILS</b>			
SCALE: NONE	SHEET NO. 4	OF 7 SHEETS	STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2531	10-00292-00-WR	DUPAGE	229	180
<b>TS-05</b>		<b>CONTRACT NO. 61C06</b>		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

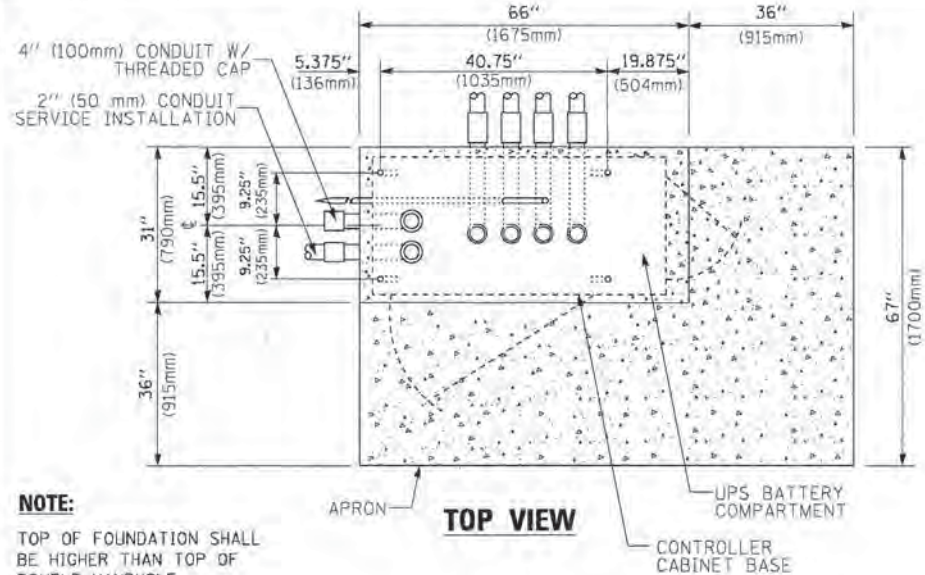




**TOP VIEW**



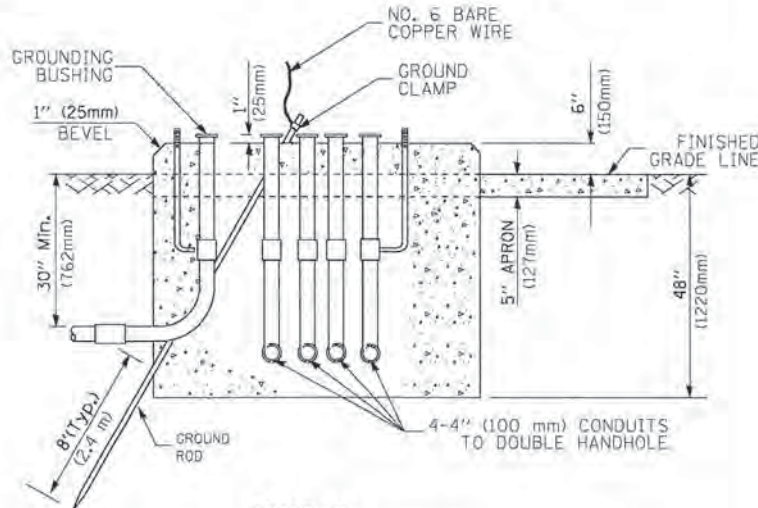
**TYPE D  
FOR GROUND MOUNTED  
CONTROLLER CABINET  
AND UPS BATTERY CABINET**



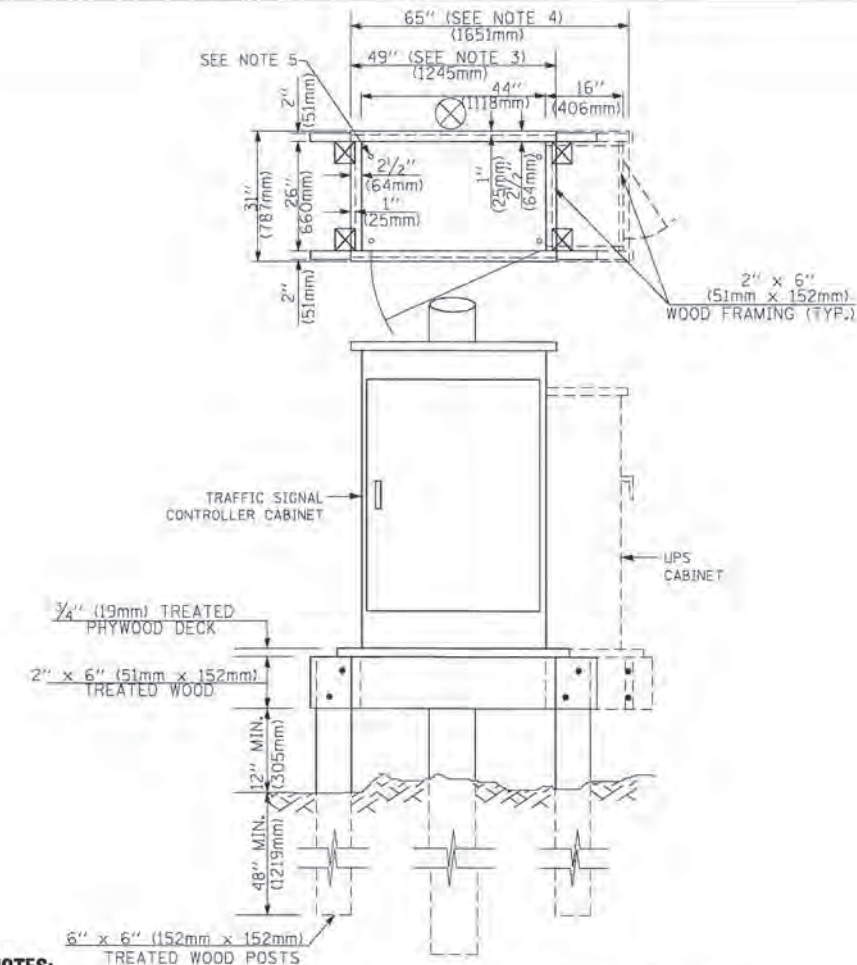
**TOP VIEW**

**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:**

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

**TEMPORARY SIGNAL CONTROLLER  
WOOD SUPPORT PLATFORM**

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

**CABLE SLACK**

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

**VERTICAL CABLE LENGTH**

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

**DEPTH OF FOUNDATION**

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

**NOTES:**

1. These foundation depths are for sites which have cohesive soils (clayey silt, sandy clay, etc.) along the length of the shaft, with an average Unconfined Compressive Strength (Qu) > 1.0 tsf (100 kpa). This strength shall be verified by boring data prior to construction or with testing by the Engineer during foundation drilling. The Bureau of Bridges & Structures should be contacted for a revised design if other conditions are encountered.
2. Combination mast arm assemblies under 55 feet (16.8 m) shall use 36" (900 mm) diameter foundations.
3. Combination mast arm assemblies under 56 feet (16.8 m) through 75 feet (22.9 m) shall use 42" (1060 mm) diameter foundations.
4. For mast arm assemblies with dual arms refer to state standard B7800L.

**DEPTH OF MAST ARM FOUNDATIONS, TYPE E**

COMPANY NAME: PROJECT CONTACT: CLIENT: DATE PLOTTED: FILE NAME: PLOT DRIVER: PEN TABLE:

FILE NAME =	USER NAME = faotemj	DESIGNED - DAG	REVISED - DAG 1-1-14
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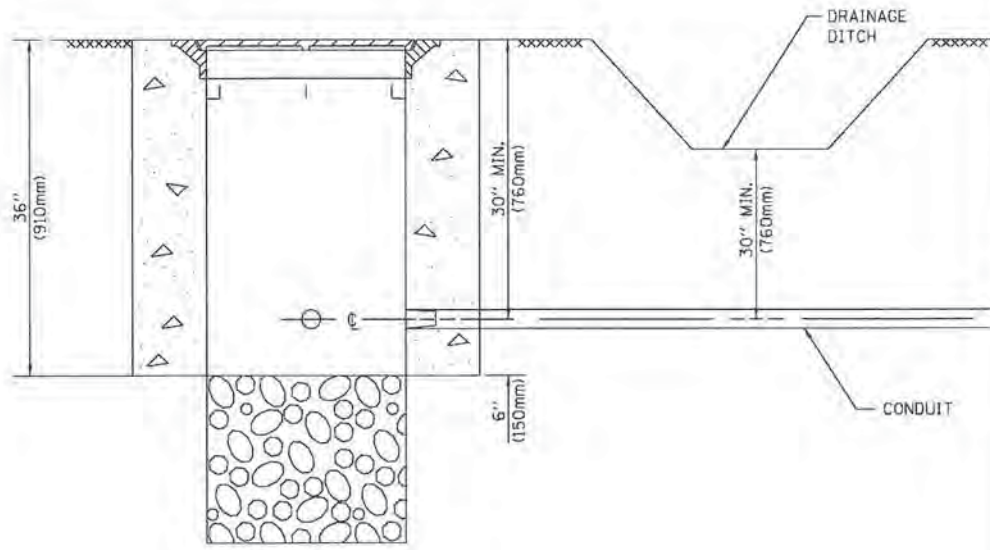
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**DISTRICT ONE  
STANDARD TRAFFIC SIGNAL DESIGN DETAILS**

SCALE: NONE SHEET NO. 5 OF 7 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2531	10-00292-00-WR	DUPAGE	229	181
TS-05			CONTRACT NO.	61C06
FED. ROAD DIST. NO. 1 (ILLINOIS) FED. AID PROJECT				

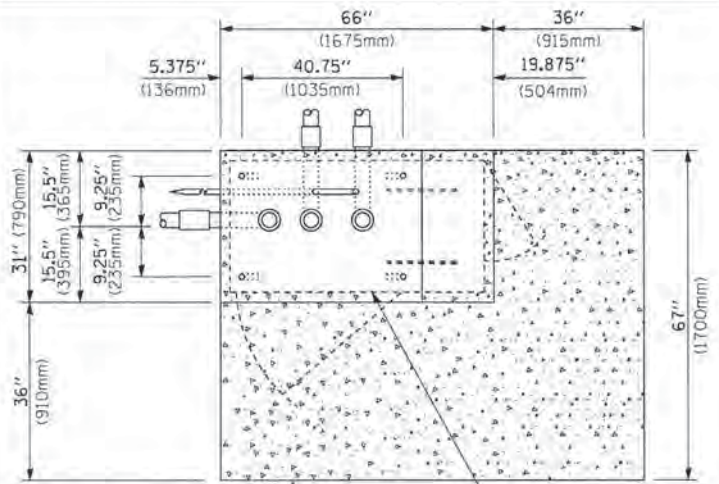




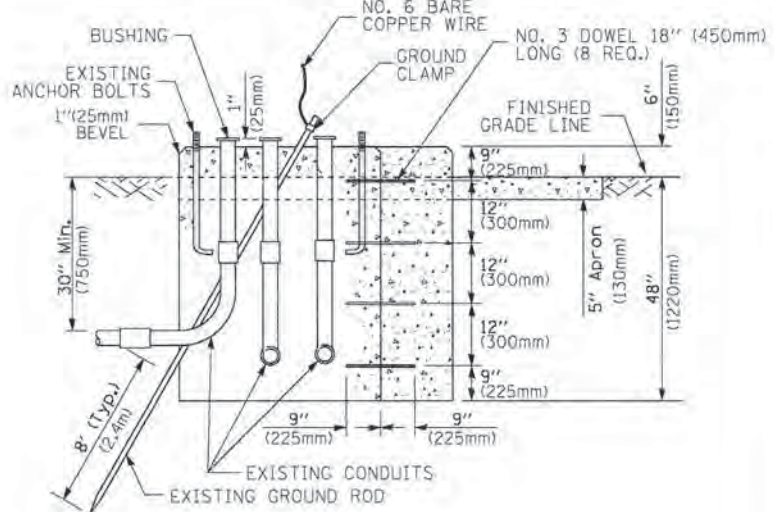
**NOTES:**

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

**HANDHOLE WITH MINIMUM CONDUIT DEPTH**  
(NOT TO SCALE)



**TOP VIEW**  
(NOT TO SCALE)

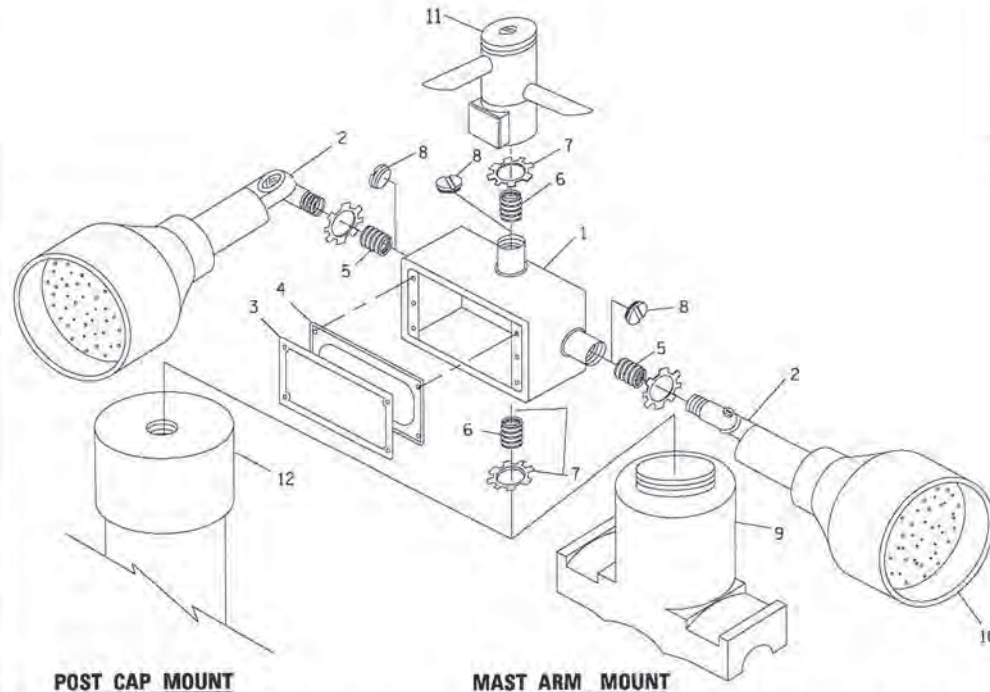


**MODIFY EXISTING TYPE "D" FOUNDATION TO TYPE "C" FOUNDATION**  
(NOT TO SCALE)

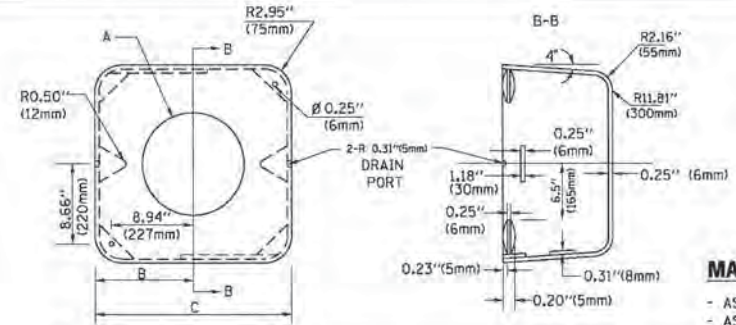
ITEM NO.	IDENTIFICATION
1	OUTLET BOX - GALV. 21 CU. IN. (0.000344 CU-M)
2	LAMP HOLDER AND COVER
3	OUTLET BOX COVER
4	RUBBER COVER GASKET
5	REDUCING BUSHING
6	3/4" (19 mm) CLOSE NIPPLE
7	3/4" (19 mm) LOCKNUT
8	3/4" (19 mm) HOLE PLUG
9	SADDLE BRACKET - GALV.
10	6 WATT PAR 38 LED FLOOD LAMP
11	DETECTOR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

**NOTES:**

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



**POST CAP MOUNT      MAST ARM MOUNT**  
**EMERGENCY VEHICLE DETECTOR WITH CONFIRMATION BEACON MOUNTING DETAIL**



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

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)

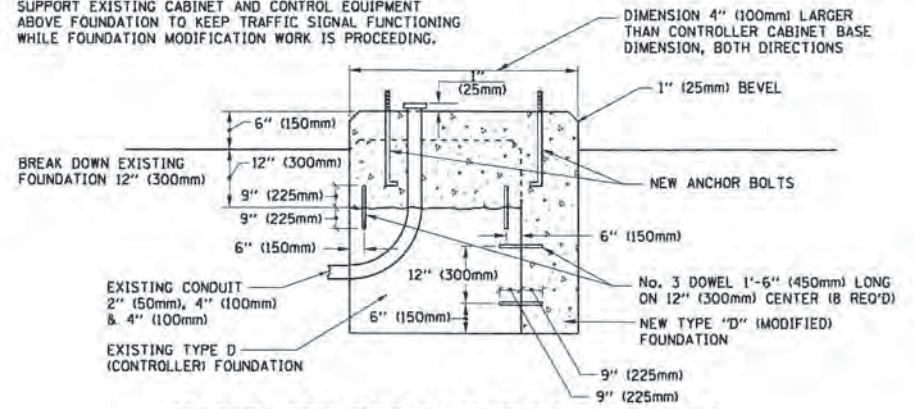
**SHROUD**

**NOTES:**

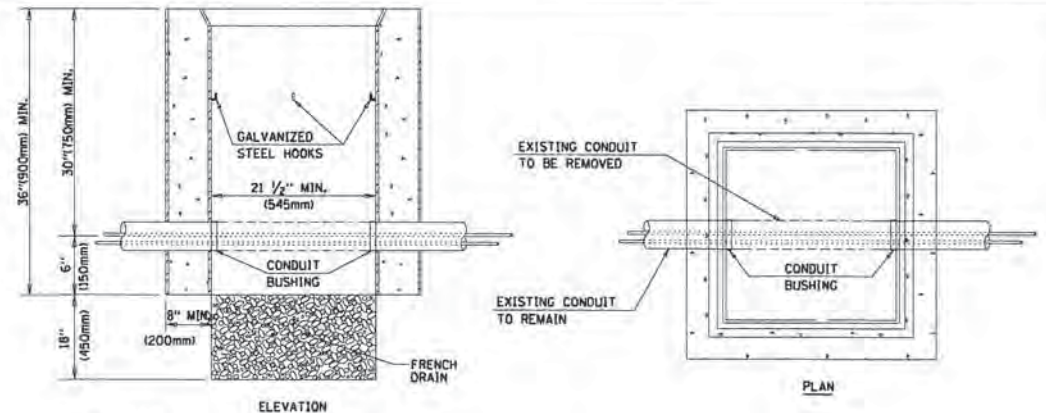
1. DIMENSION "A" IS EQUAL TO THE DIAMETER OF THE MAST ARM POLE AT THE TOP OF THE SHROUD. THE SHROUD SHALL BE TIGHT TO THE MAST ARM POLE.
2. THE SUPPLIER SHALL VERIFY THE ABOVE DIMENSIONS BASED ON MAST ARM REQUIREMENTS.
3. THE HEIGHT OF THE SHROUD SHALL COVER THE ANCHOR BOLTS, NUTS AND MAST ARM POLE BASE.

**NOTE:**

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



**MODIFY EXISTING TYPE "D" FOUNDATION**



**NOTES:**

1. HANDHOLE CONSTRUCTED PER STATE STANDARD 814001.
2. REMOVAL OF THE EXISTING CONDUIT FROM THE HANDHOLE AND THE INSTALLATION OF THE CONDUIT BUSHINGS SHALL BE INCLUDED WITH THE COST OF THE HANDHOLE.

**HANDHOLE TO INTERCEPT EXISTING CONDUIT**

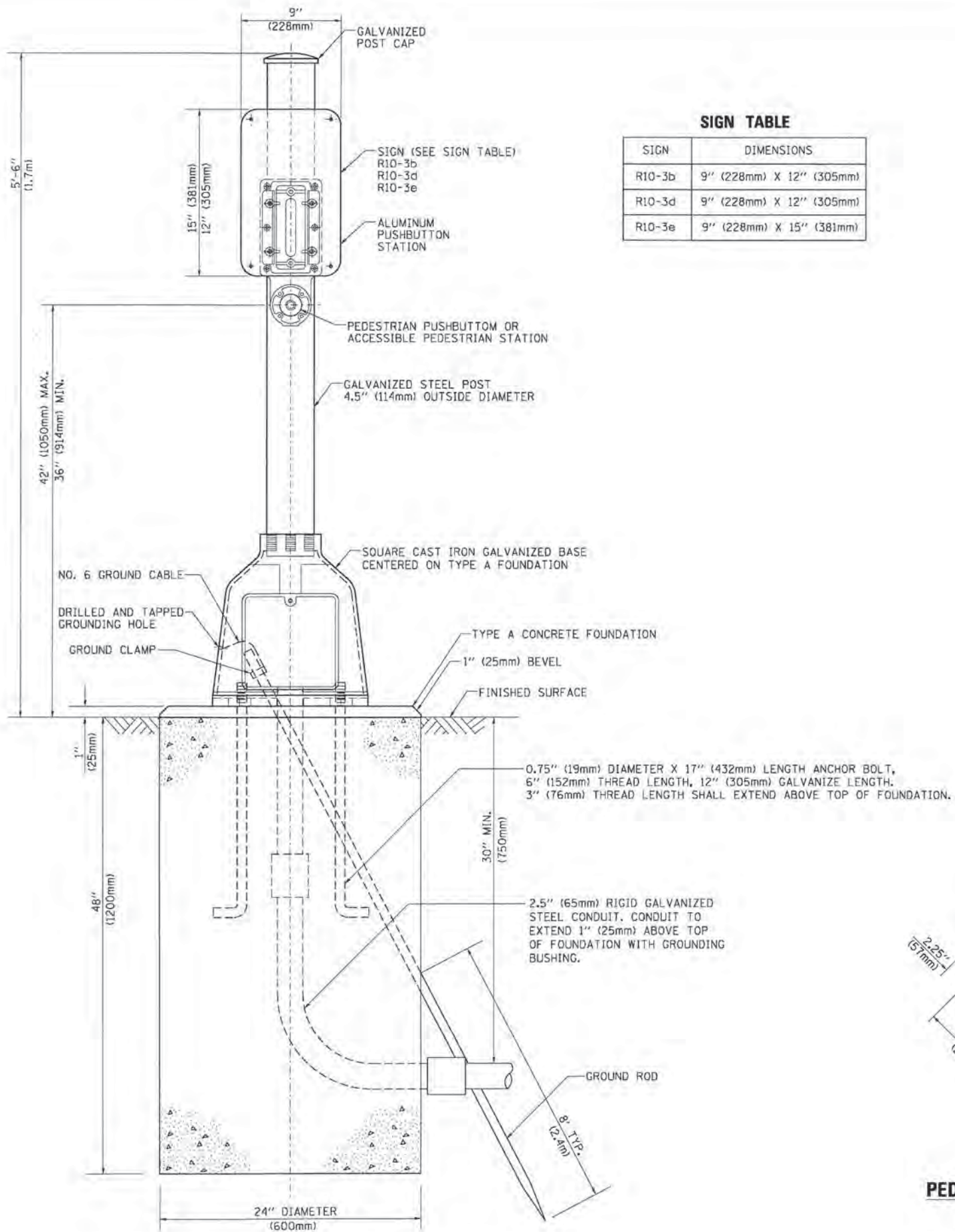
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**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

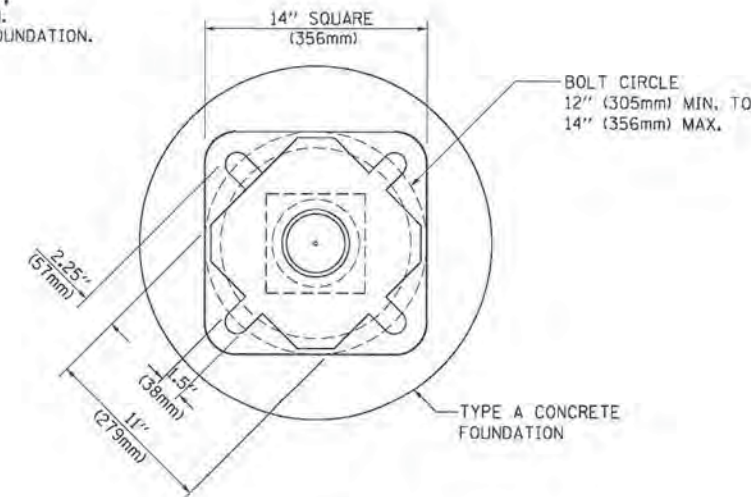
DISTRICT ONE		F.A.U. R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
STANDARD TRAFFIC SIGNAL DESIGN DETAILS		2531	10-00292-00-WR	DUPAGE	229	182
SCALE: NONE		TS-05		CONTRACT NO. 61C06		
SHEET NO. 6 OF 7 SHEETS		STA. TO STA.		FED. ROAD DIST. NO. 1 [ILLINOIS] FED. AID PROJECT		





**SIGN TABLE**

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



**BOLT PATTERN**

**PEDESTRIAN PUSH BUTTON POST, TYPE A**

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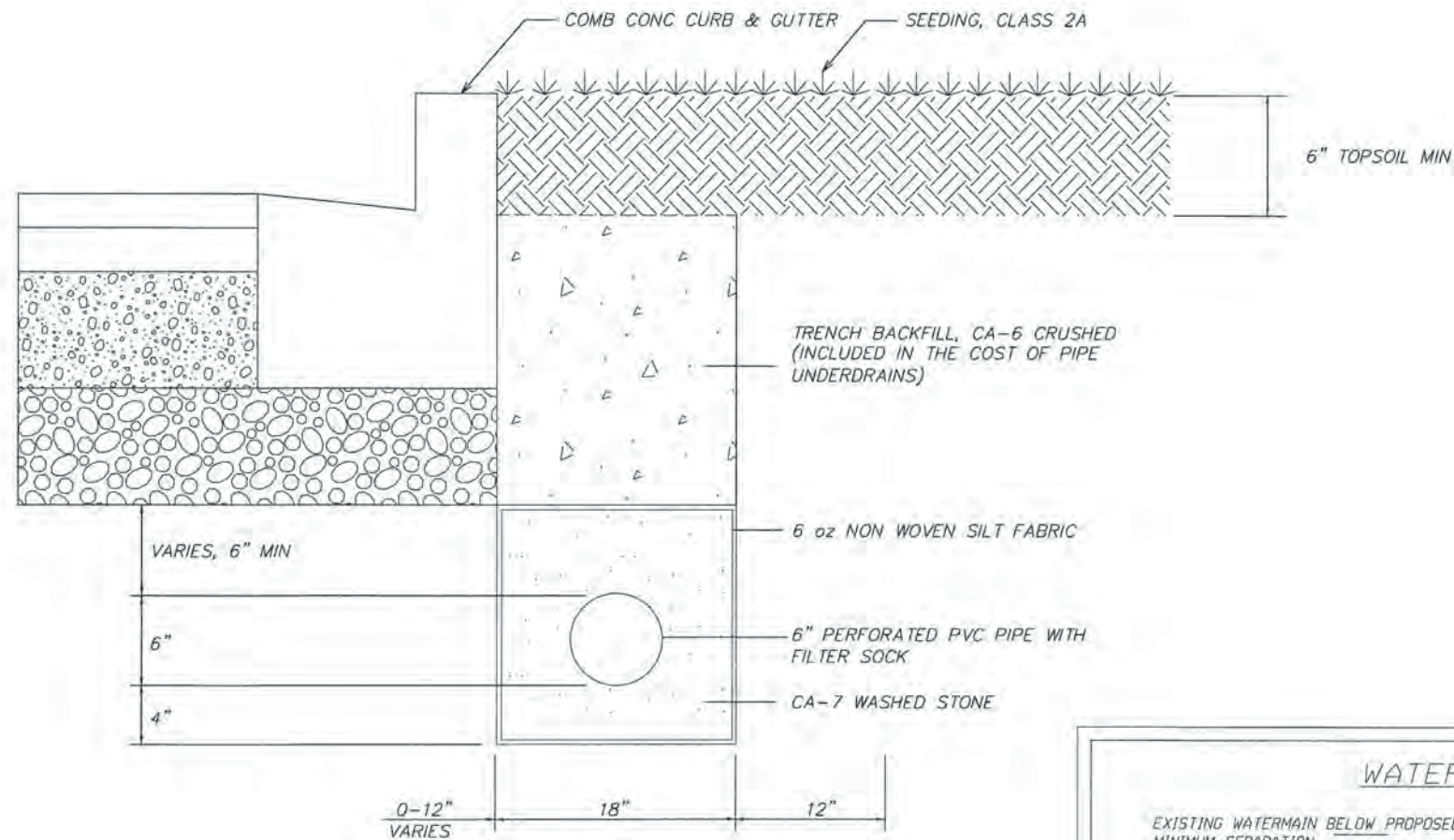
**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**DISTRICT ONE**  
**STANDARD TRAFFIC SIGNAL DESIGN DETAILS**

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2531	10-00292-00-WR	DUPAGE	229	183
<b>TS-05</b>			CONTRACT NO. 61C06	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				





**CONSTRUCTION NOTES:**

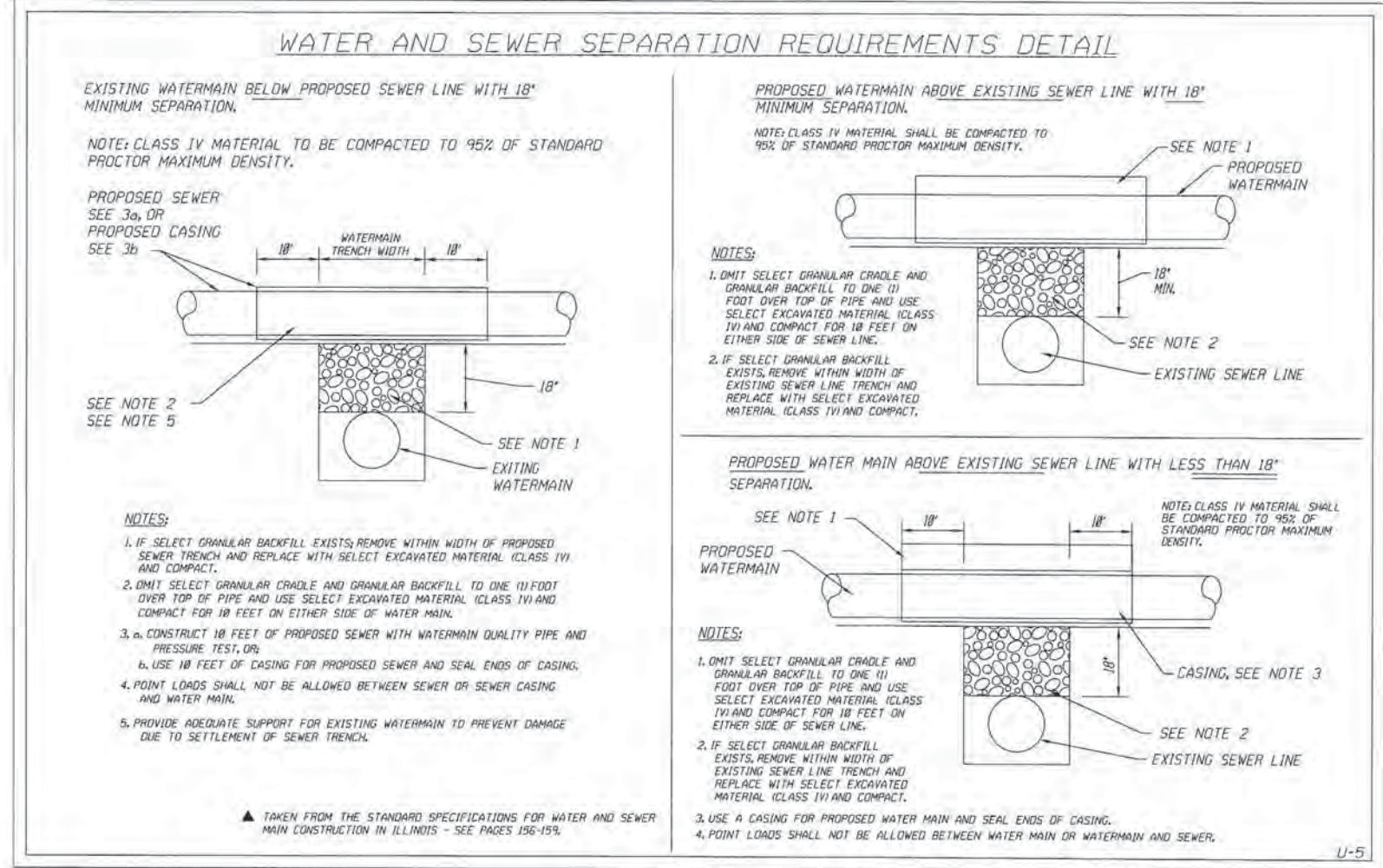
PERFORATED PIPE MAY BE POLYVINYL CHLORIDE (PVC) OR HIGH-DENSITY POLYETHYLENE PIPE (HDPE)

PERFORATIONS WILL BE ON ONE HALF OF THE PIPE ONLY, AND APPROXIMATELY 5/8" IN DIAMETER AND SPACED 2 5/8" C-C.

THE PIPE UNDERDRAIN SHALL BE PLACED SO THAT PERFORATED HALF FACES UPWARD TOWARDS THE TOP OF THE TRENCH.

THE NON-WOVEN FABRIC SHALL CONTAIN THE AGGREGATE AND PIPE AS DEPICTED ABOVE.

**TYPICAL TRENCH SECTION FOR PIPE UNDERDRAINS**



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 PROJECT CONTACT: HRGreen  
 CLIENT: HRGreen  
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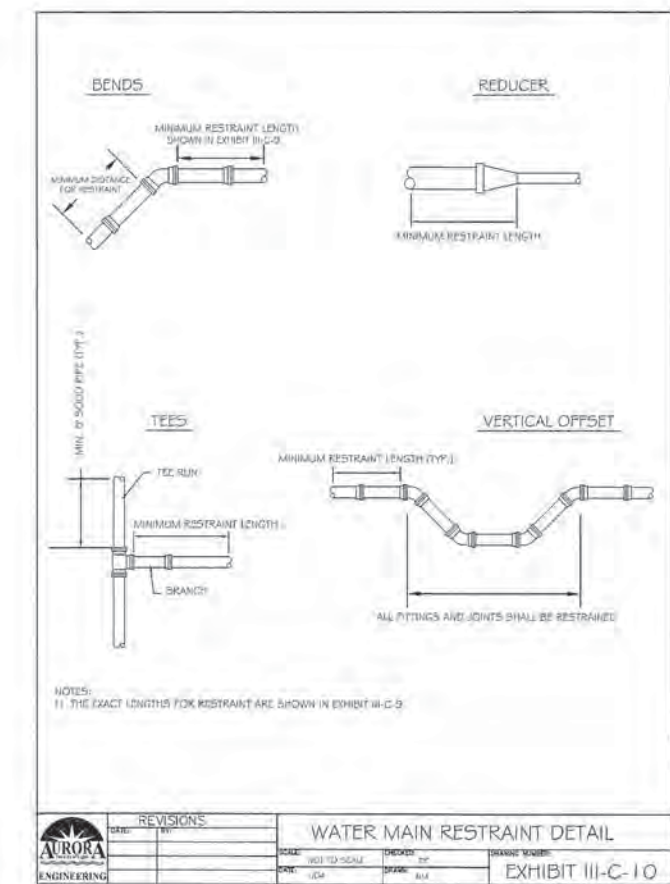
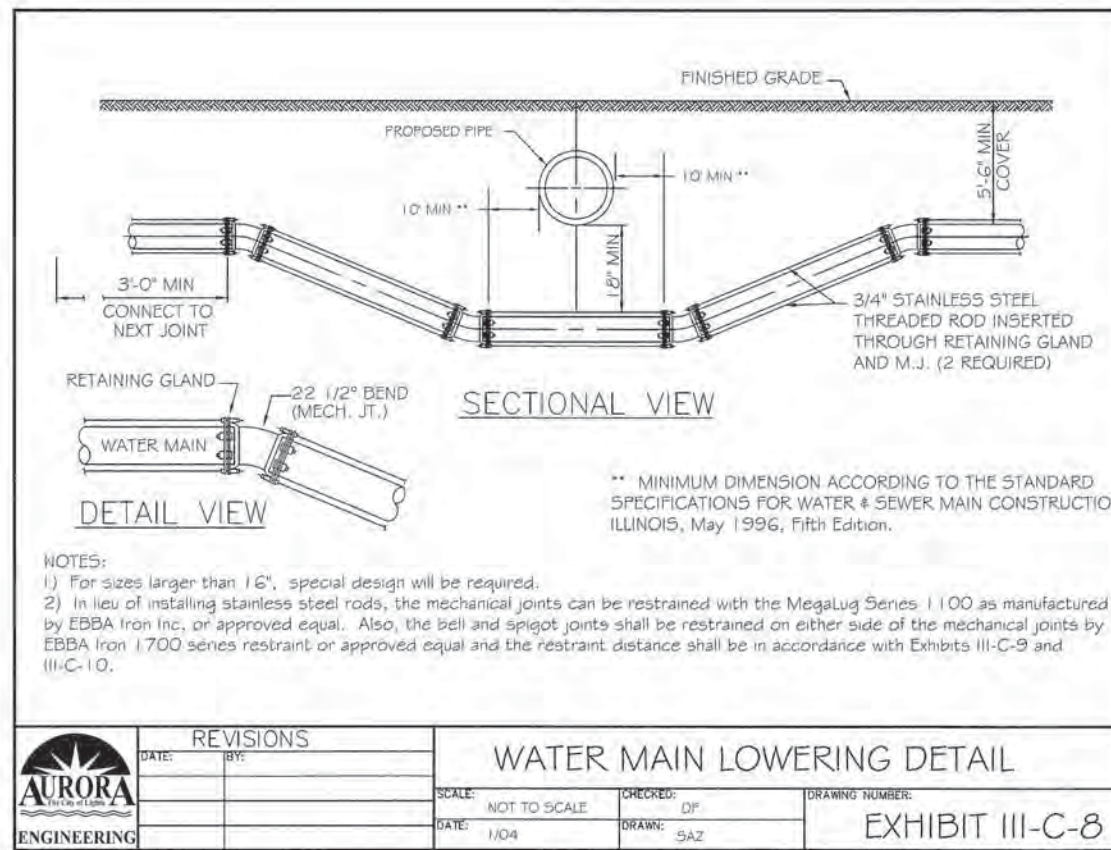
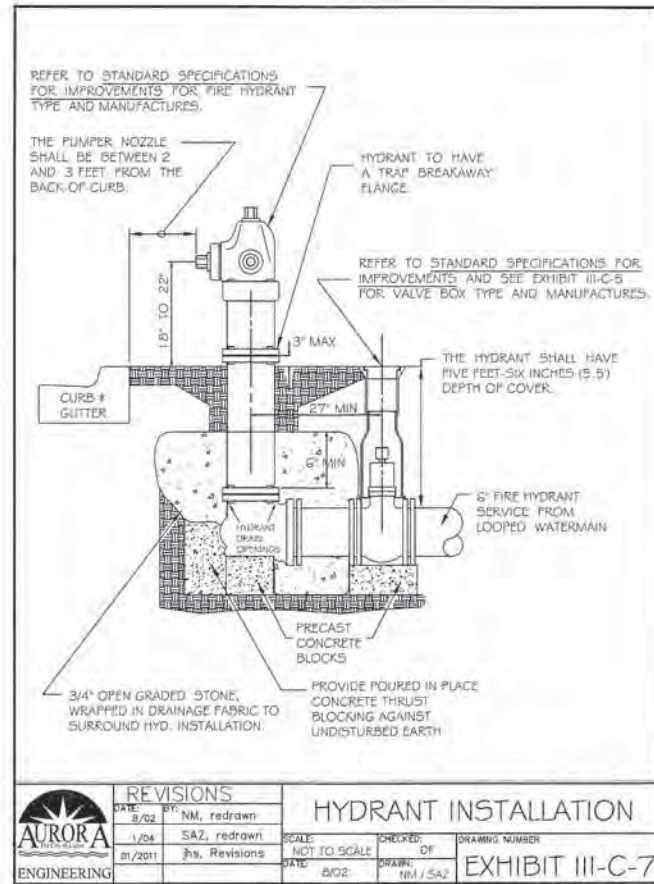
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**STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION**

**EOLA ROAD, 87TH STREET AND 83RD STREET CONSTRUCTION DETAILS**

F.A.U. RTE. 2531	SECTION 10-00292-00-WR	COUNTY DUPAGE	TOTAL SHEETS 229	SHEET NO. 184
CONTRACT NO. 61C06				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				





**Minimum Restraint Length (ft) on both sides of the Fitting**

Fitting Type/Nominal Size	6"	8"	12"	16"
1 1/4" Bend	2	3	4	6
2 1/2" Bend	5	6	9	11
45° Bend	10	13	18	23
90° Bend	23	30	43	56
Dead End	31	40	57	74
Top Side of a Vertical Offset <sup>1</sup>	19	25	35	46
Tee Run x Branch <sup>2</sup> 6" BY	24			
Tee Run x Branch <sup>2</sup> 8" BY	22	34		
Tee Run x Branch <sup>2</sup> 12" BY	18	31	51	
Tee Run x Branch <sup>2</sup> 16" BY	14	28	48	67
Reducer <sup>3</sup> 8" BY	17			
Reducer <sup>3</sup> 12" BY	42	30		
Reducer <sup>3</sup> 16" BY	62	54	31	

<sup>1</sup> All joints within the lowered section of the watermain shall be restrained or shall be solid pipe. The above distances reflect the required restraint distance on the normally elevated watermain either side of the 45° fitting of the vertical offset (or lowering).

<sup>2</sup> Minimum of 8 ft of solid pipe is required on both sides of the fitting on the run side. Distance indicates the length of restraint on the branch side or the side perpendicular to the tee run watermain.

<sup>3</sup> Indicates the distance from the larger end of the reducer.

Notes: 1) All nuts and bolts shall be stainless steel.  
2) The entire restraint system from the fitting to the minimum restraint distance must be inspected by The City of Aurora or its representative prior to backfilling.

REVISIONS

DATE	BY	DESCRIPTION
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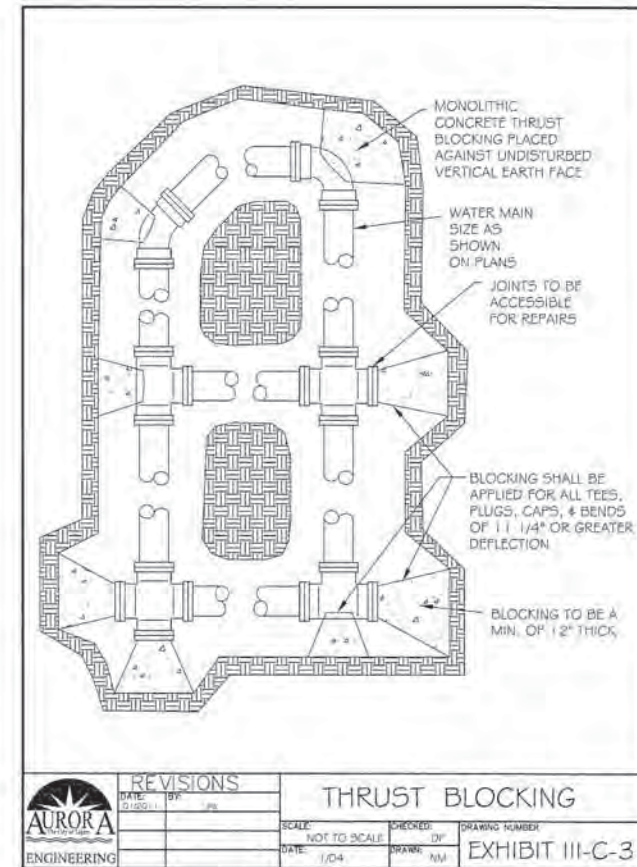
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CHECKED: PJH

DRAWN: DF

DRAWING NUMBER: Watermain Restraint Length Table

EXHIBIT III-C-9



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 CLIENT: HRGreen  
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**HRGreen**  
 HRGreen.com  
 Illinois Professional Design Firm  
 #184-01332

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STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

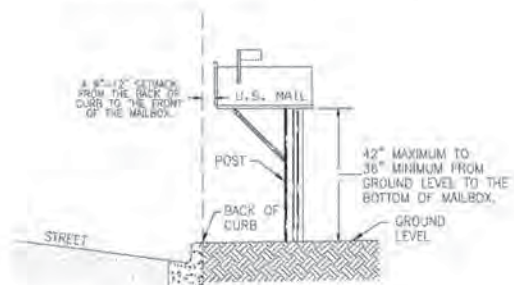
EOLA ROAD, 87TH STREET AND 83RD STREET  
 CONSTRUCTION DETAILS

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

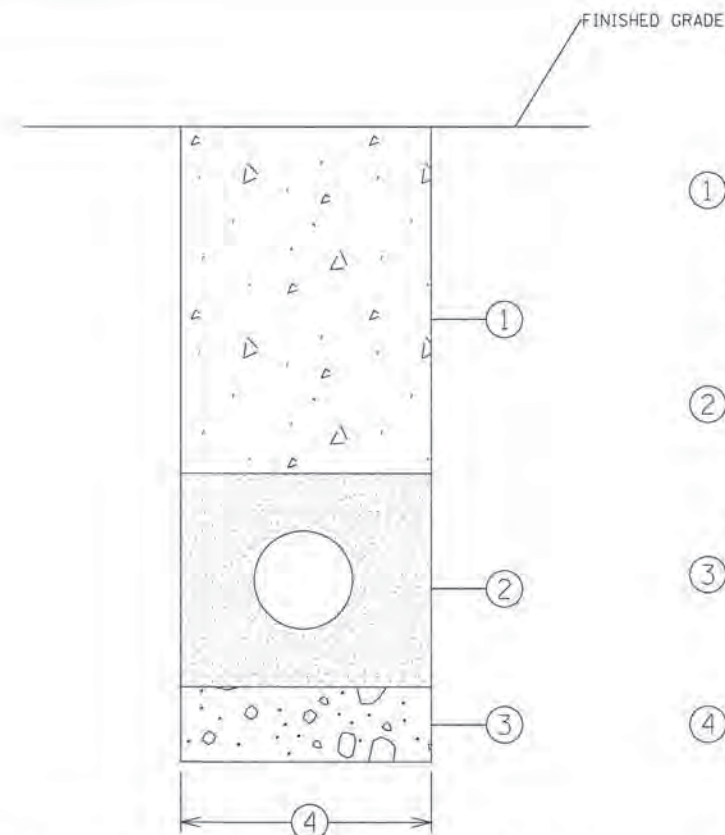
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CONTRACT NO. 61C06				
FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT				



1. MAILBOX POST HEIGHT IS 42" MAXIMUM - 36" MINIMUM MEASURED FROM BOTTOM OF MAILBOX TO GROUND LEVEL.
2. THE FRONT OF THE MAILBOX MAY NOT EXTEND BEYOND THE BACK OF CURB OR OVERHANG THE CURB OR STREET. A 9" SETBACK MEASURED FROM THE BACK OF CURB TO THE FRONT OF THE MAILBOX IS SUGGESTED, HOWEVER, THE FRONT OF THE MAILBOX SHOULD NOT BE GREATER THAN 12" FROM THE BACK OF THE CURB IN ORDER TO REMAIN ACCESSIBLE TO POSTAL CARRIERS.
3. MAILBOXES AND SUPPORTING FIXTURES SHALL NOT BE INSTALLED WITHIN 10- FEET OF THE POINT OF CURVATURE OF ANY STREET INTERSECTION.



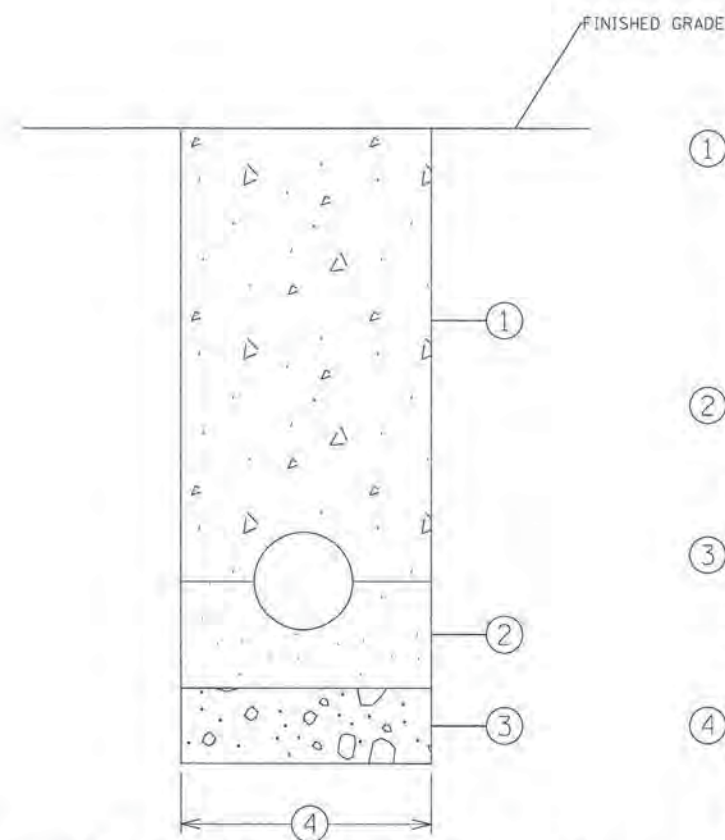
**MAILBOX**



**TYPICAL WATER MAIN TRENCH DETAIL**

1. **SELECT TRENCH BACKFILL**  
GRANULAR TRENCH BACKFILL TO BE USED UNDER EXISTING OR PROPOSED PAVEMENT, CURB AND GUTTER, SIDEWALK OR WITHIN 2' OF ANY EXISTING/PROPOSED CURB AND GUTTER OR SIDEWALK, SHALL BE MECHANICALLY COMPACTED CA-6, GRADE #9. PAID FOR PER CU YD AS TRENCH BACKFILL.
2. **PIPE BEDDING, HAUNCHING STON & INITIAL TRENCH BACKFILL**  
CA-7 WASHED STONE FROM 4" BELOW TO 12" ABOVE TOP OF PIPE. INCLUDED IN THE COST OF THE WATER MAIN BEING INSTALLED.
3. **UNSUITABLE MATERIALS**  
IF ENCOUNTERED - SHALL BE REMOVED WHERE DIRECTED BY THE ENGINEER AND REPLACED WITH SUITABLE AND COMPACTED MATERIAL
4. **TRENCH WIDTH**  
WIDTH (MAX.) = 9" + O.D. + 9", WHEN TRENCH < 5FT  
WIDTH (MAX.) = 18" + O.D. + 18", WHEN TRENCH > 5FT

**NOTE**  
ALL GRANULAR MATERIAL TO BE IDOT APPROVED.  
WATER MAIN MINIMUM DEPTH OF COVER = 5.5 FT



**TYPICAL STORM SEWER TRENCH DETAIL**

1. **SELECT TRENCH BACKFILL**  
GRANULAR TRENCH BACKFILL TO BE USED UNDER EXISTING OR PROPOSED PAVEMENT, CURB AND GUTTER, SIDEWALK OR WITHIN 2' OF ANY EXISTING/PROPOSED CURB AND GUTTER OR SIDEWALK, SHALL BE MECHANICALLY COMPACTED CA-6, GRADE #9. PAID FOR PER CU YD AS TRENCH BACKFILL.
2. **PIPE BEDDING & INITIAL TRENCH BACKFILL**  
CA-7 WASHED STONE FROM 4" BELOW TO SPRING LINE OF PIPE. INCLUDED IN THE COST OF THE STORM SEWER BEING INSTALLED.
3. **UNSUITABLE MATERIALS**  
IF ENCOUNTERED - SHALL BE REMOVED WHERE DIRECTED BY THE ENGINEER AND REPLACED WITH SUITABLE AND COMPACTED MATERIAL
4. **TRENCH WIDTH**  
WIDTH (MAX.) = 9" + O.D. + 9", WHEN TRENCH < 5FT  
WIDTH (MAX.) = 18" + O.D. + 18", WHEN TRENCH > 5FT

**NOTE**  
ALL GRANULAR MATERIAL TO BE IDOT APPROVED.

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PROJECT CONTACT: #PROJECT CONTACT#  
CLIENT: #CLIENT#  
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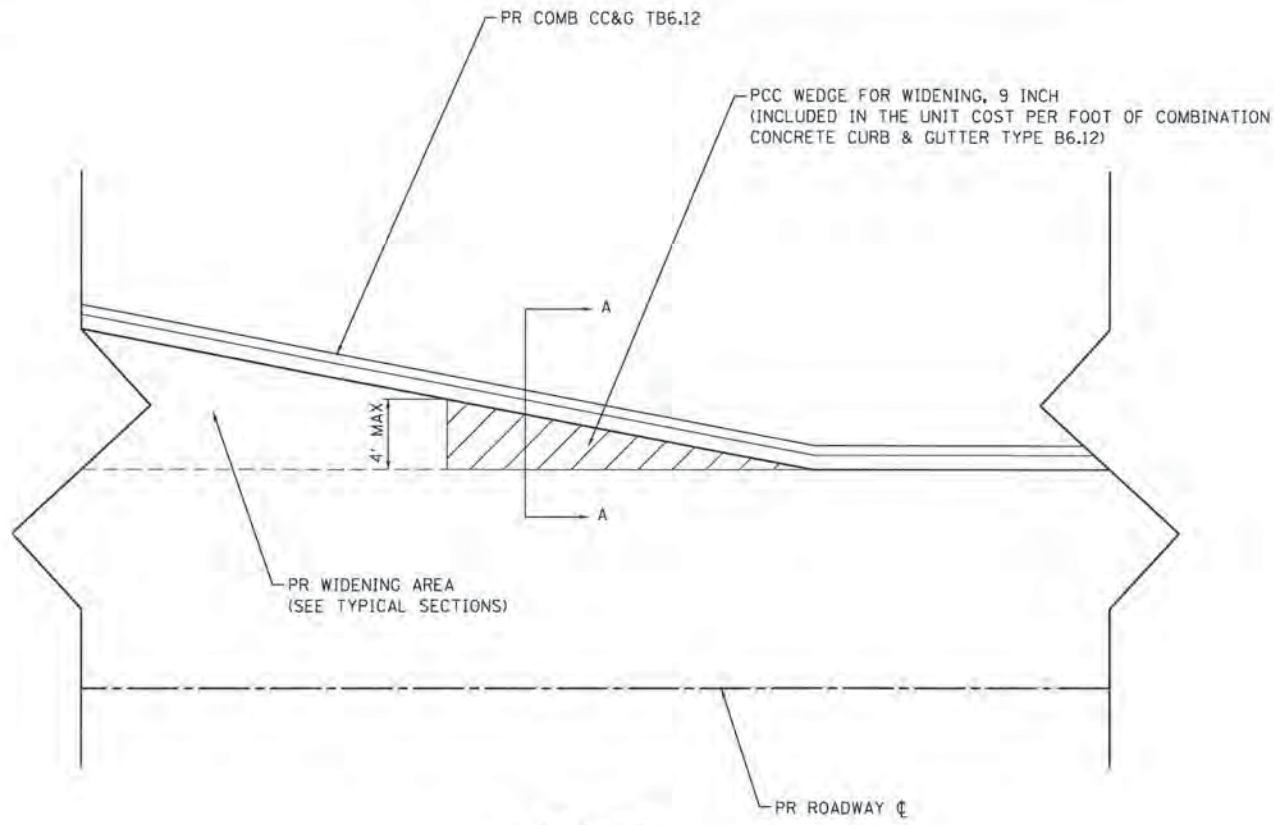
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

EOLA ROAD, 87TH STREET AND 83RD STREET  
CONSTRUCTION DETAILS

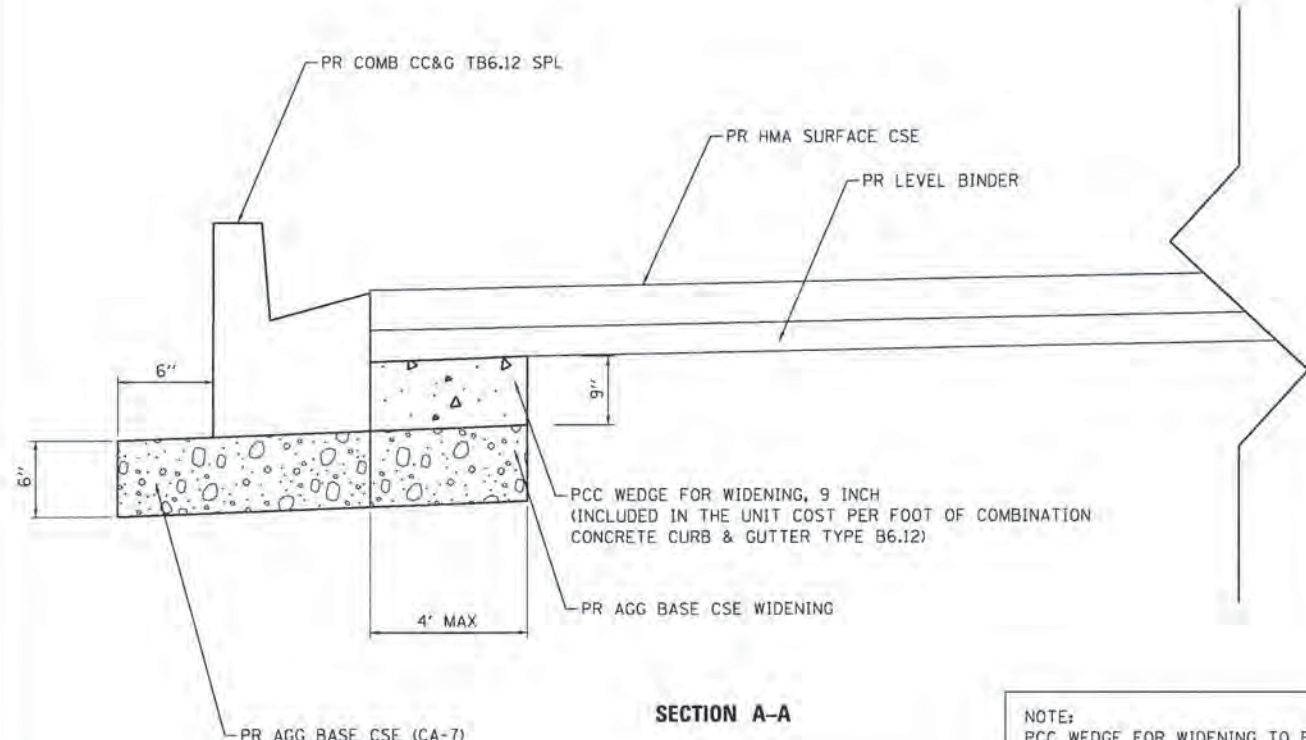
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F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2531	10-00292-00-WR	DUPAGE	229	186
CONTRACT NO.			61C06	
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				





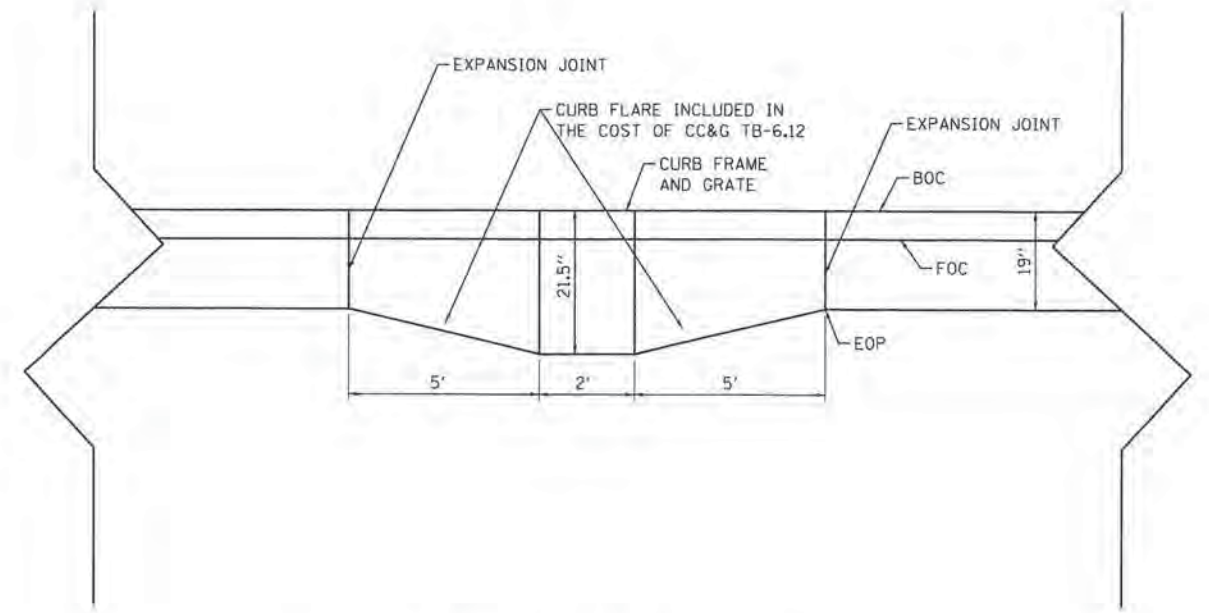
PLAN VIEW



SECTION A-A

TRANSITION DETAIL FOR WIDENING

NOTE:  
PCC WEDGE FOR WIDENING TO BE CONSTRUCTED  
WHENEVER WIDENING WIDTH IS FOUR (4) FEET AND  
LESS.



COMBINATION CONCRETE CURB AND GUTTER, TYPE B6.12  
AT STORM STRUCTURE CASTINGS

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CLIENT: #CLIENT#  
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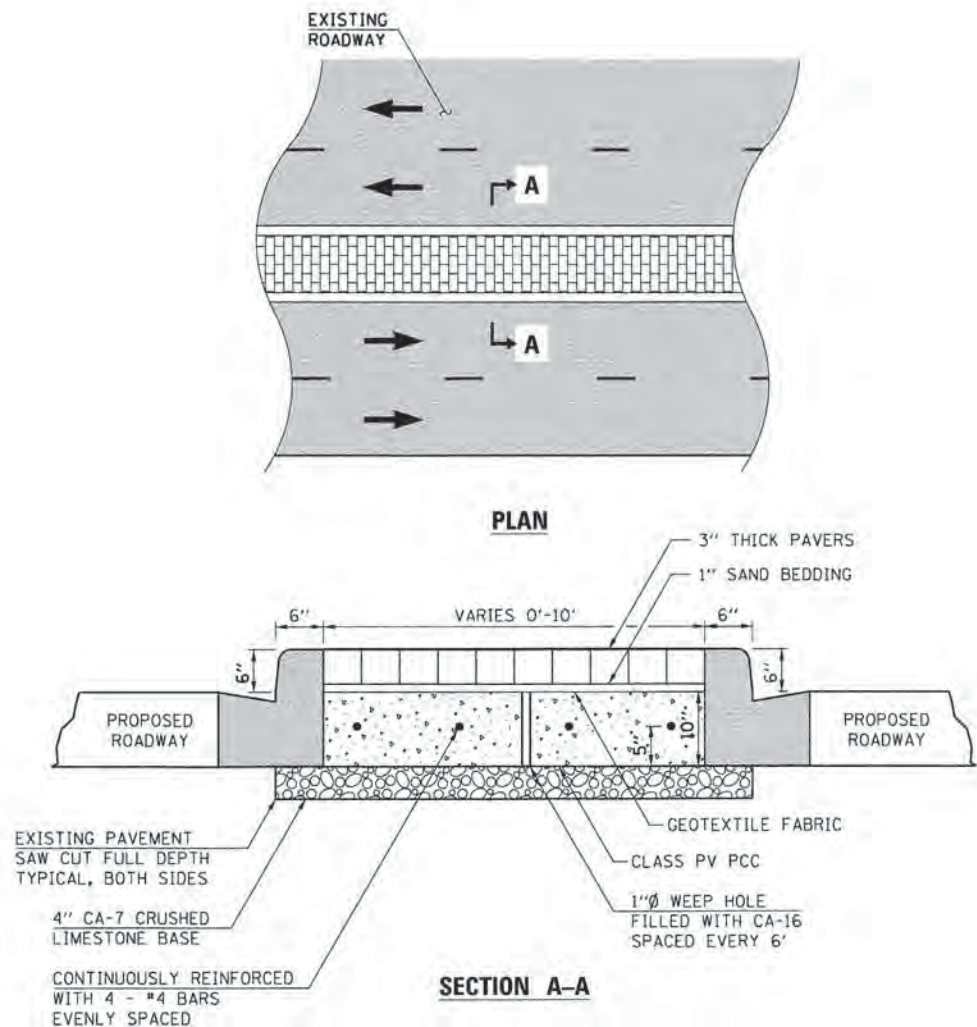
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STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

EOLA ROAD, 87TH STREET AND 83RD STREET CONSTRUCTION DETAILS			
SCALE:	SHEET NO.	OF SHEETS	STA. TO STA.

F.A.U. RTE. 2531	SECTION 10-00292-00-WR	COUNTY DUPAGE	TOTAL SHEETS 229	SHEET NO. 187
CONTRACT NO. 61C06				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				





**CONCRETE MEDIAN (SPECIAL)**

**GENERAL NOTES:**

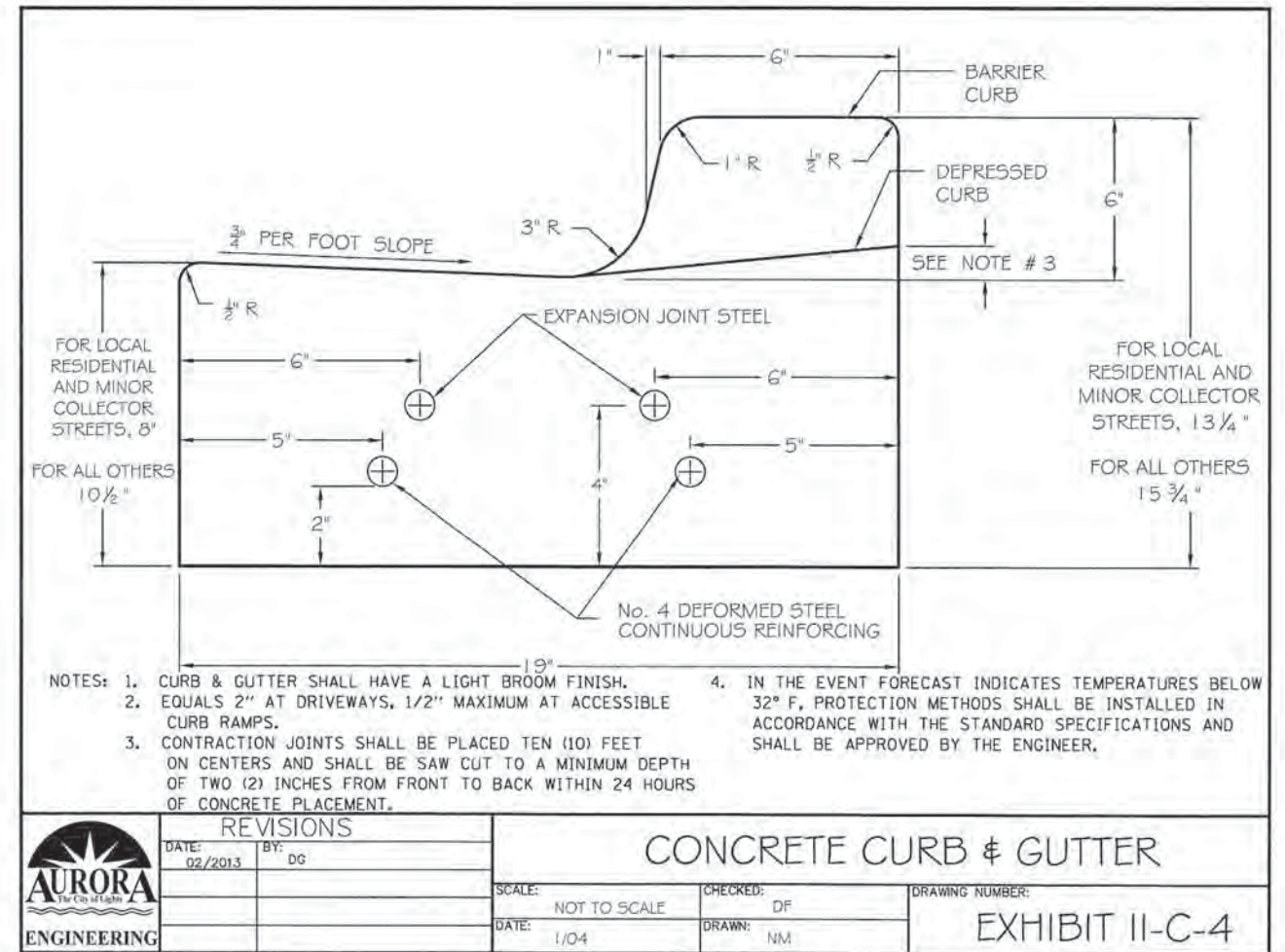
THE BRICK PAVERS FOR THE CONCRETE MEDIAN (SPECIAL) SHALL BE SERIES 3000, COLOR MOCHA BROWN. THE CONTRACTOR SHALL PROVIDE THE ENGINEER WITH A BRICK PAVER SAMPLE FOR APPROVAL BY THE CITY OF AURORA PRIOR TO INSTALLATION.

**METHOD OF MEASUREMENT:**


CONCRETE MEDIAN (SPECIAL) WILL BE MEASURED FOR PAYMENT IN PLACE AND THE AREA COMPUTED IN SQUARE FEET. MEASUREMENT WILL BE FROM BACK OF CURB TO BACK OF CURB..

**BASIS OF PAYMENT:**


THIS WORK WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER SQUARE FOOT FOR CONCRETE MEDIAN (SPECIAL), WHICH PRICE SHALL INCLUDE ALL LABOR, MATERIALS AND EQUIPMENT NECESSARY TO CONSTRUCT THE PORTLAND CEMENT CONCRETE, REINFORCEMENT, BRICK PAVERS, SAND BEDDING, GEOTEXTILE FABRIC AND LIMESTONE BASE IN ACCORDANCE WITH THE ABOVE DETAILS.



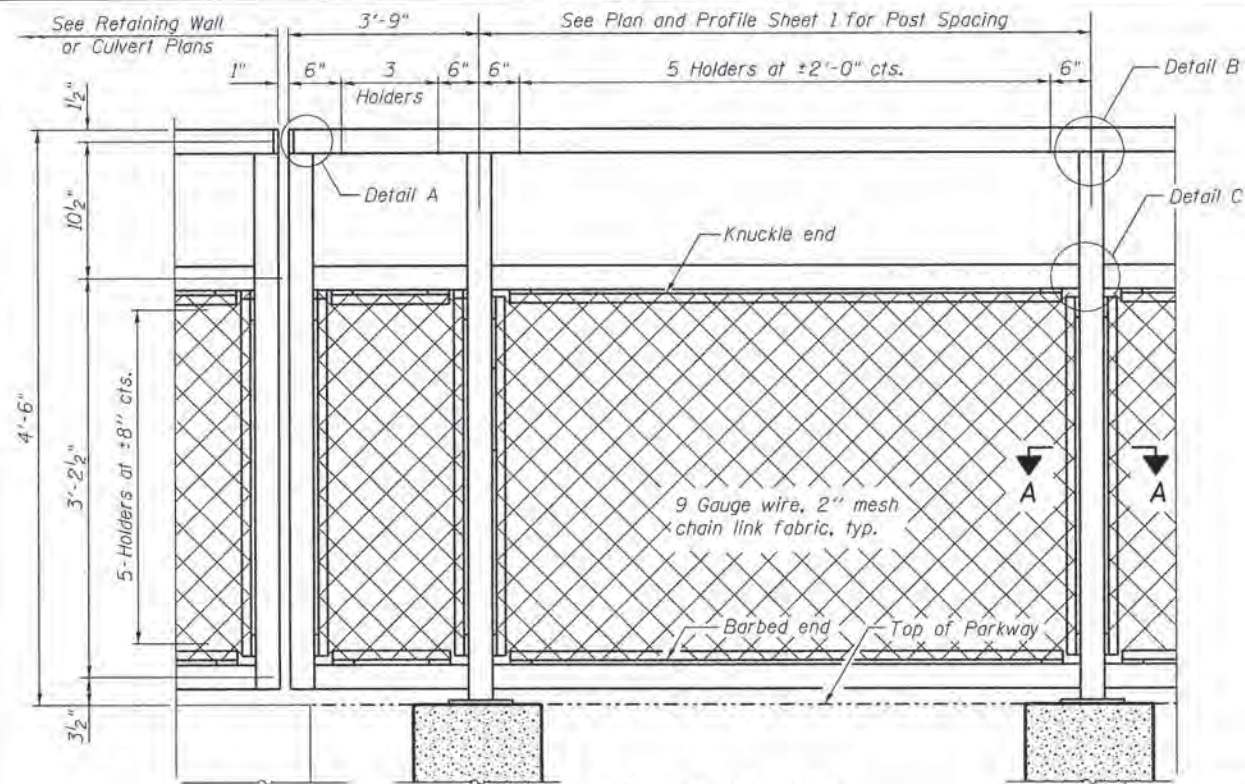
- NOTES:
1. CURB & GUTTER SHALL HAVE A LIGHT BROOM FINISH.
  2. EQUALS 2" AT DRIVEWAYS, 1/2" MAXIMUM AT ACCESSIBLE CURB RAMPS.
  3. CONTRACTION JOINTS SHALL BE PLACED TEN (10) FEET ON CENTERS AND SHALL BE SAW CUT TO A MINIMUM DEPTH OF TWO (2) INCHES FROM FRONT TO BACK WITHIN 24 HOURS OF CONCRETE PLACEMENT.
  4. IN THE EVENT FORECAST INDICATES TEMPERATURES BELOW 32° F, PROTECTION METHODS SHALL BE INSTALLED IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS AND SHALL BE APPROVED BY THE ENGINEER.

	<p style="text-align: center;">REVISIONS</p>		<p style="font-size: 1.2em; font-weight: bold;">CONCRETE CURB &amp; GUTTER</p>		
	DATE:	BY:	SCALE:	CHECKED:	
	02/2013	DG	NOT TO SCALE	DF	
			DATE:	DRAWN:	
		1/04	NM	<p style="font-size: 1.2em; font-weight: bold;">EXHIBIT II-C-4</p>	

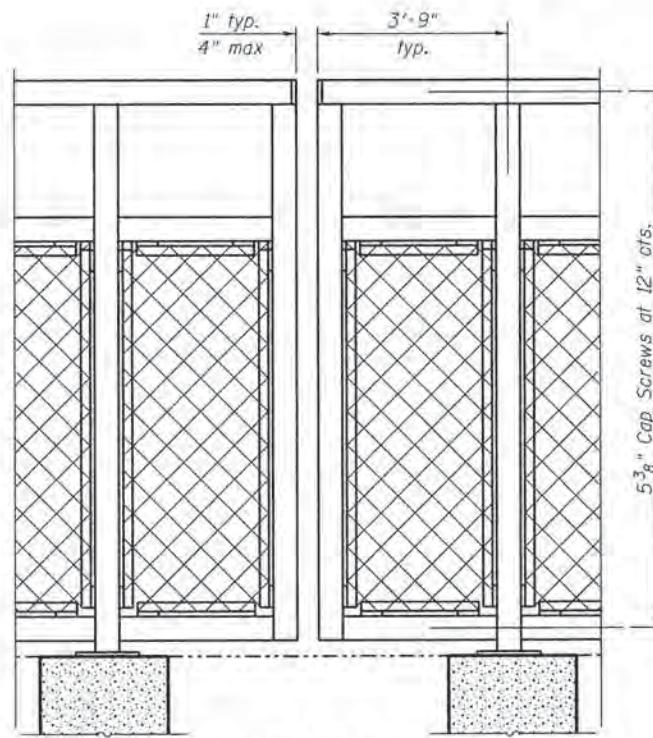
COMPANY NAME: HRGreen  
 PROJECT CONTACT: HRGreen  
 CLIENT: HRGreen  
 DATE PLOTTED: 10/30/2015 10:20:34 AM  
 FILE NAME: 86130384-shr-det23.dgn  
 PLOT DRIVER: L:\proj\shrp\c17g\p1018661.tpr

 <b>HRGreen.com</b> <small>Illinois Professional Design Firm #184-001322</small>	USER NAME = dstanosz	DESIGNED - SEC	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>EOLA ROAD, 87TH STREET AND 83RD STREET CONSTRUCTION DETAILS</b>			F.A.U. RTE. = 2531	SECTION = 10-00292-00-WR	COUNTY = DUPAGE	TOTAL SHEETS = 229	SHEET NO. = 188
	FILE NAME = 86130384-shr-det23.dgn	DRAWN - WJH	REVISED -		SCALE: SHEET NO. OF SHEETS STA. TO STA.	CONTRACT NO. 61C06			ILLINOIS FED. AID PROJECT			
	PLOT SCALE =	CHECKED - RGD	REVISED -									
	PLOT DATE = 10/30/2015	DATE - 10/30/15	REVISED +									



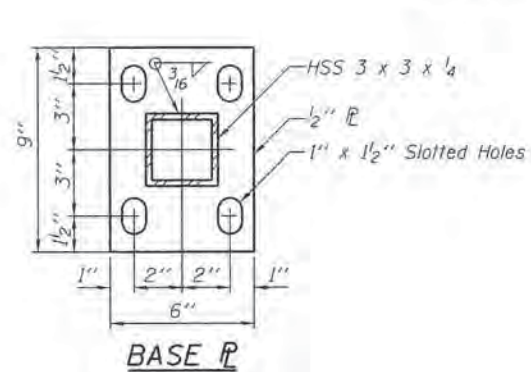
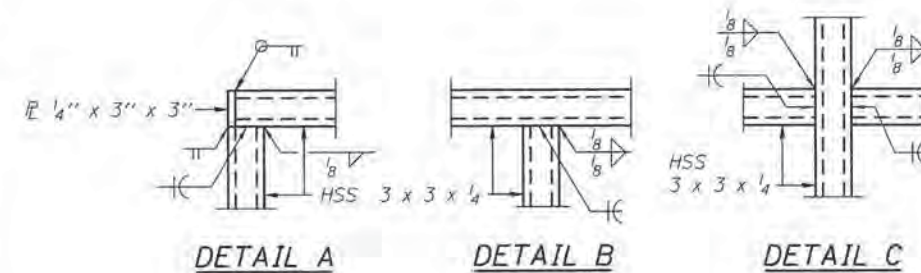


**BICYCLE RAILING  
ELEVATION AT ENDS**

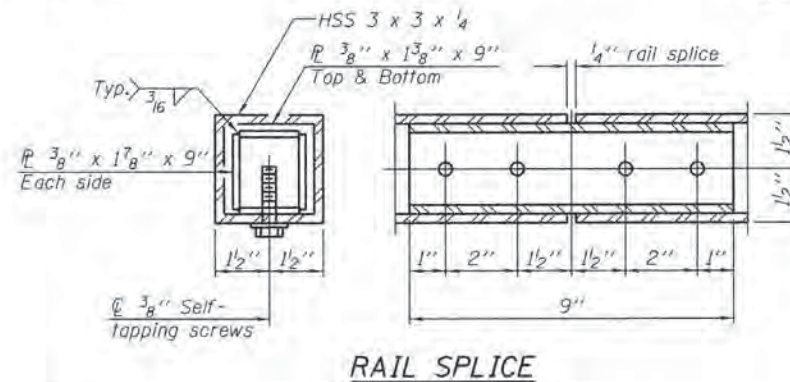


**BICYCLE RAILING  
ELEVATION AT JOINT**

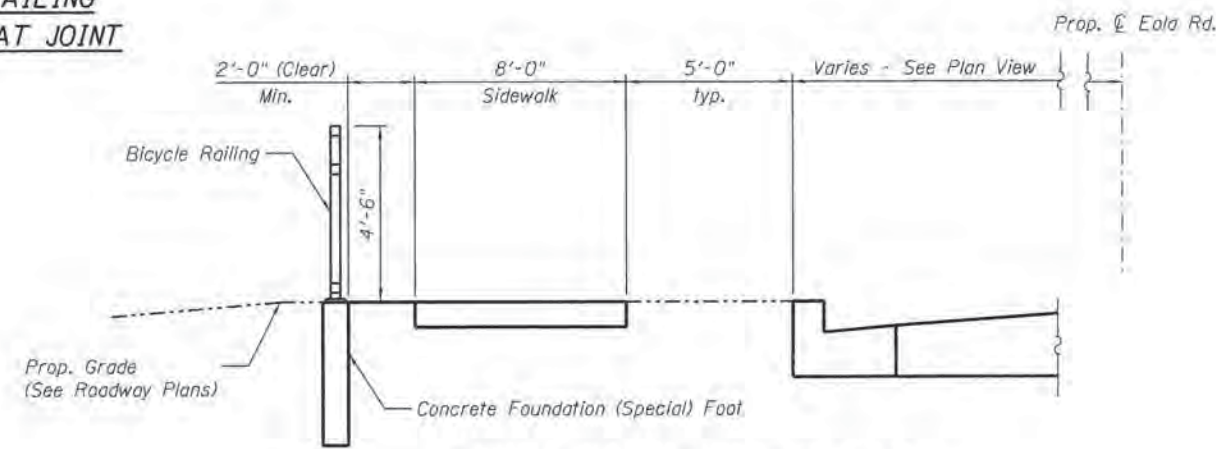
Note:  
All post, railing, splices, anchor devices,  
and bent plates shall be powder coated black.  
The powder coating system to be used shall  
be approved by the engineer prior to the  
coating process.



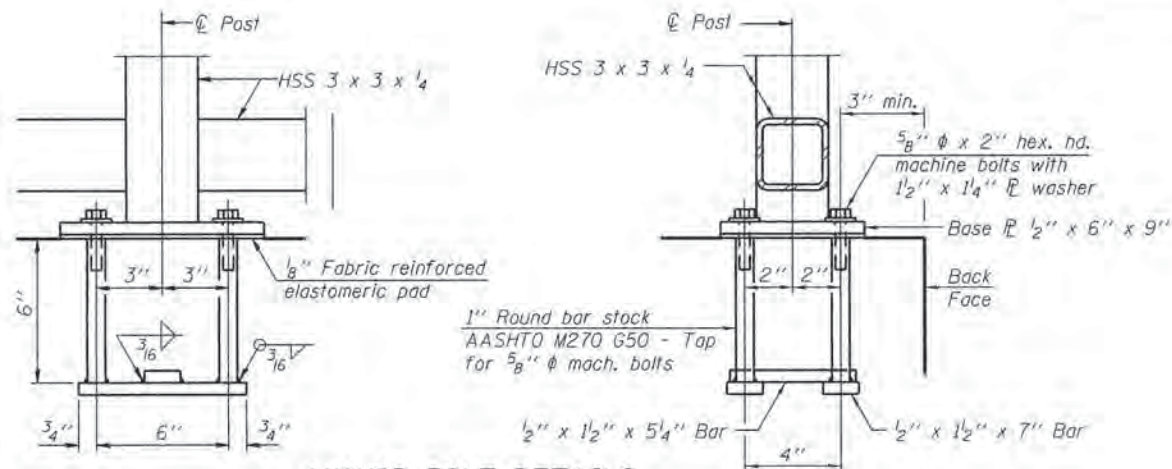
**BASE PLATE**



**RAIL SPLICE**



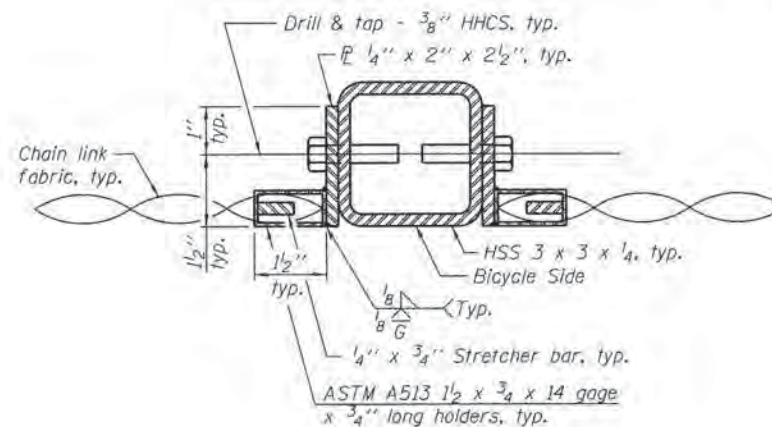
**BICYCLE RAILING SECTION VIEW**



**ANCHOR BOLT DETAILS**

In lieu of the cast-in-place anchor device shown, the Contractor has the option of drilling and setting 5/8"  $\phi$  anchor rods according to Article 509.06 of the Standard Specifications. Embedment shall be according to the manufacturer's specifications.

(10'-0" Maximum Post Spacing)



**SECTION A-A**

Note:  
All post, railing, splices, anchor devices and bent  
plates shall be powder coated black.

COMPANY NAME: HRGreen.com  
PROJECT CONTACT: HRGreen.com  
CLIENT: HRGreen.com  
DATE PLOTTED: 12/9/2015 10:41:44 AM  
FILE NAME: 86130384-drt-0612.dgn  
PLOT DRIVER: IL\_drt\_0612.ctb  
PEN TABLE: dcr10004.tbl



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FILE NAME = 86130384-drt-0612.dgn  
PLOT SCALE =  
PLOT DATE = 12/9/2015

DESIGNED - SEC  
DRAWN - WJH  
CHECKED - RGD  
DATE - 12/9/15

REVISED -  
REVISED -  
REVISED -  
REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

EOLA ROAD, 87TH STREET AND 83RD STREET  
BICYCLE RAILING DETAILS

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

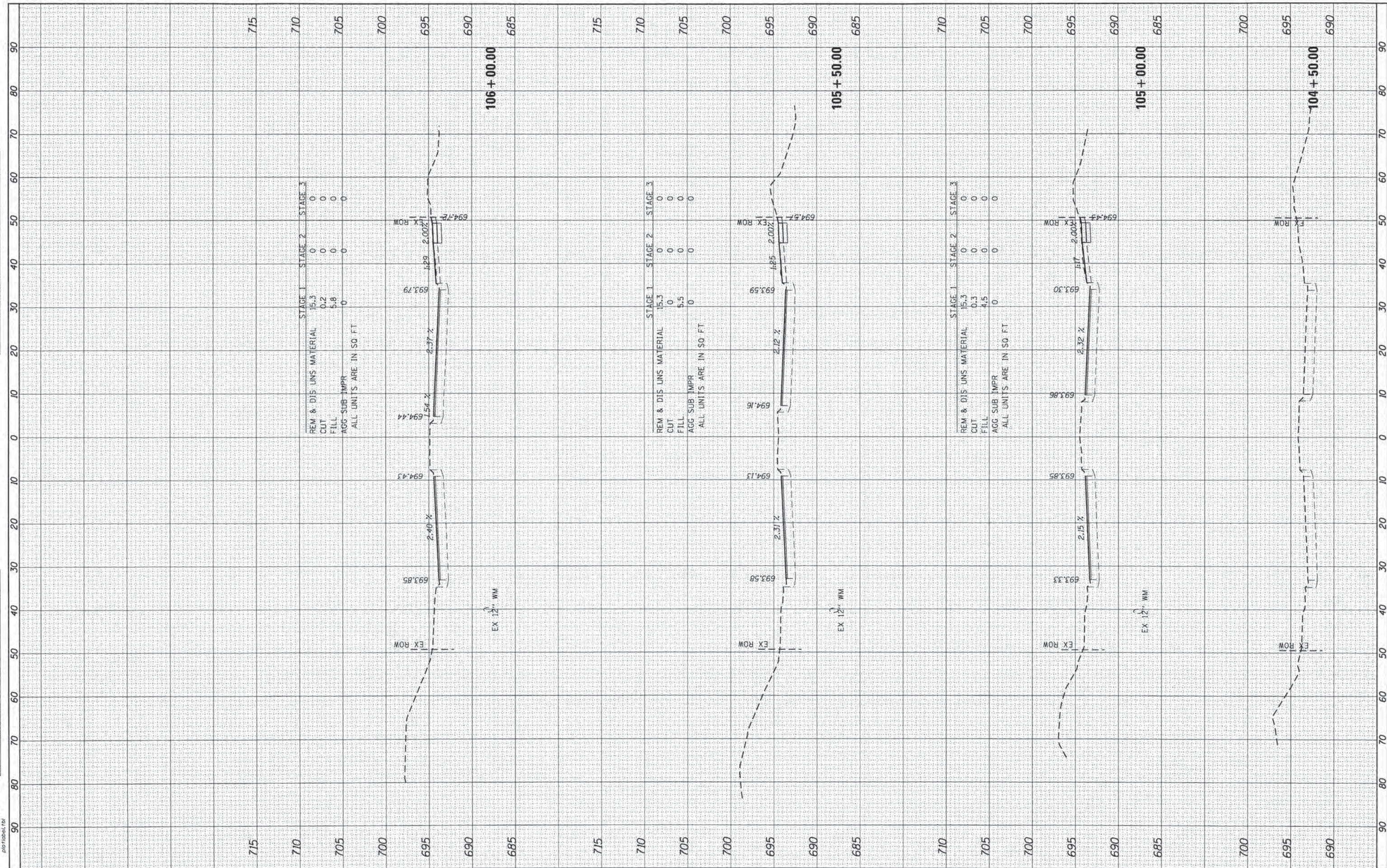
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2531	10-00292-00-WR	DUPAGE	229	189
CONTRACT NO.				61C06
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



FINAL SURVEY	BY	DATE
SUPERVISED		
PLOTTED		
TEMPLATE		
AREAS		
CHECKED		

ORIGINAL SURVEY	BY	DATE
SUPERVISED		
PLOTTED		
TEMPLATE		
AREAS		
CHECKED		

HRC PROJECT NO. 86100284  
 HRC PROJ. CONTACT: 86100284-877-5885-ecolop1  
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 PLOT DRIVER: plot\_driver.tbl

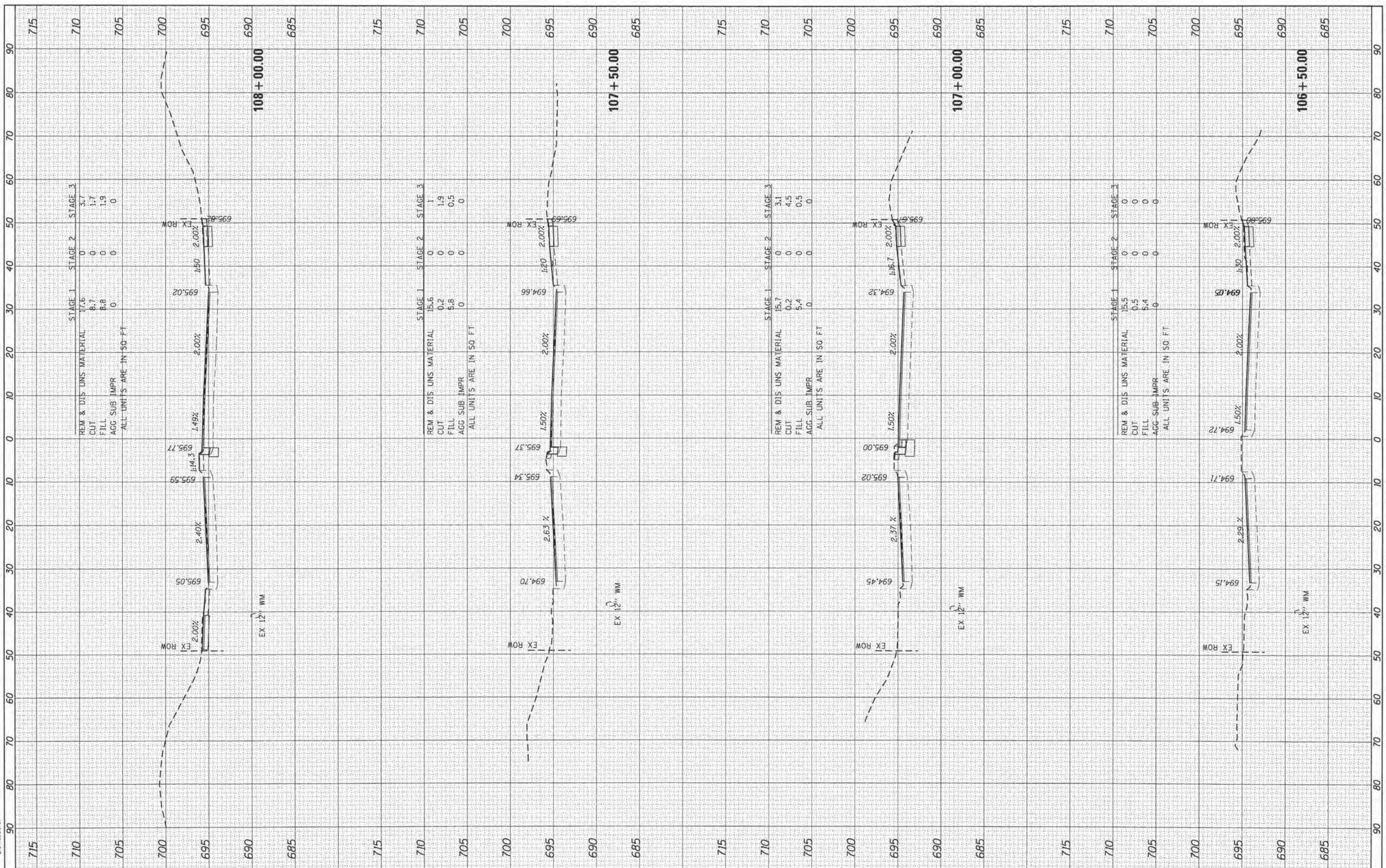




FINAL SURVEY	BY	DATE
SURVEYED		
PLOTTED		
TEMPLATE		
NOTE BOOK		
AREAS CHECKED		
NO.		

ORIGINAL SURVEY	BY	DATE
SURVEYED		
PLOTTED		
TEMPLATE		
NOTE BOOK		
AREAS CHECKED		
NO.		

HRG PROJECT NO.: 8610384  
 HRG PROJ. CONTACT: 8610384-811-3848-811-3848  
 FILE NAME: 8610384-811-3848-811-3848.dwg  
 PLOT DRIVER: plot\_driver.plt  
 PEN TABLE: plot.tbl



USER NAME = dstanoz	DESIGNED - JS	REVISED -
PLLOT SCALE = 10H:10V	DRAWN -	REVISED -
PLLOT DATE = 10/30/2015	CHECKED -	REVISED -
	DATE = 10/30/15	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

<b>CROSS SECTIONS EOLA ROAD</b>		
SCALE: 10H:10V	SHEET NO. 2 OF 40 SHEETS	STA. 106+50.00 TO STA. 108+00.00

F.A.U. RTE. 2531	SECTION NO. 10-00292-00-WR	COUNTY DUPAGE	TOTAL SHEETS 229	SHEET NO. 191
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 61C06	



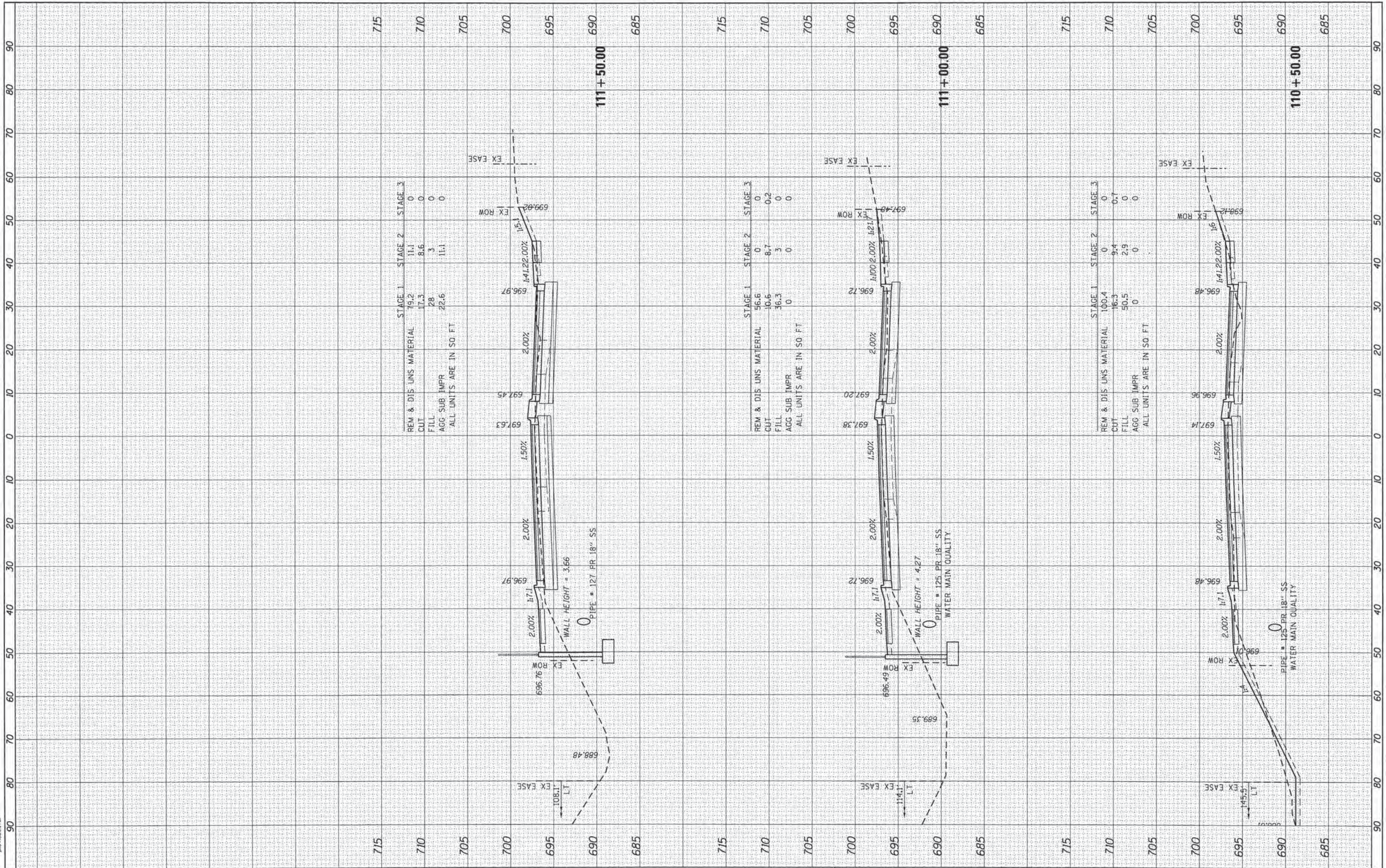




FINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
AREAS CHECKED	TEMPLATE		
NO.	NO.		

ORIGINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
AREAS CHECKED	TEMPLATE		
NO.	NO.		

HRG PROJECT NO. 8650384  
 HRG PROJ CONTACT: 8650384-ent-vehicle-mobility  
 FILE NAME: L:\proj\8650384\p1c6  
 PLOT DRIVER: plotlabel.plt  
 PEN TABLE:



HRGreen.com  
 Illinois Professional Design Firm  
 #184-01322

USER NAME = dstancz	DESIGNED = JS	REVISED =
PLLOT SCALE = 10x10V	DRAWN =	REVISED =
PLLOT DATE = 10/30/2015	CHECKED =	REVISED =
	DATE = 10/30/15	REVISED =

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS  
 EOLA ROAD  
 SCALE: 10x10V SHEET NO. 4 OF 40 SHEETS STA. 110+50.00 TO STA. 111+50.00

F.A.U. RTE. 2531	SECTION NO. 10-00292-00-WR	COUNTY DUPAGE	TOTAL SHEETS 229	SHEET NO. 193
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT	CONTRACT NO. 61C06	



FINAL SURVEY	BY	DATE
PLOTTED		
NOTE BOOK		
AREAS		
CHECKED		
NO.		

ORIGINAL SURVEY	BY	DATE
PLOTTED		
NOTE BOOK		
AREAS		
CHECKED		
NO.		

HRG PROJECT NO. 8620284  
 HRG PROJ. CONTACT: 8620284-871-7888-866-871  
 FILE NAME: 10-0292-00-WR-10-30-15.dwg  
 PLOT DRIVER: plot.tbl

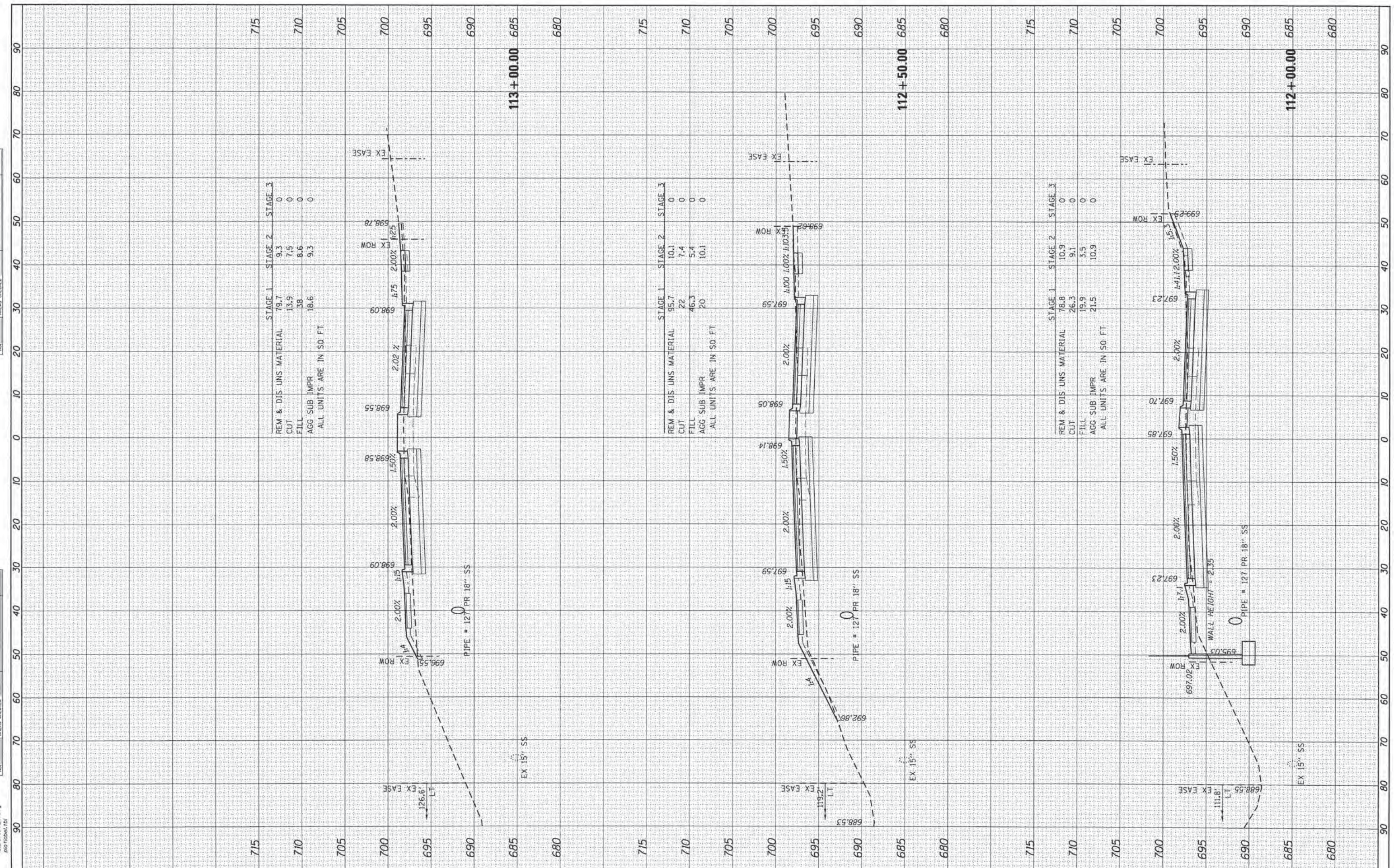
USER NAME = dancenz	DESIGNED = JS	REVISED =
PLLOT SCALE = 1/8"=1'-0"	CHECKED =	REVISED =
PLLOT DATE = 10/30/2015	DATE = 10/30/15	REVISED =

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS  
EOLA ROAD**

SCALE: 10H:10V SHEET NO. 5 OF 40 SHEETS STA. 112+00.00 TO STA. 113+00.00

F.A.J. RTE. 2531	SECTION NO. 10-00292-00-WR	COUNTY DUPAGE	TOTAL SHEETS 229	SHEET NO. 194
CONTRACT NO. 61C06			ILLINOIS FED. AID PROJECT	

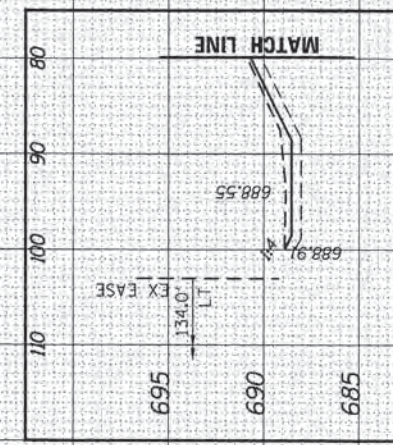
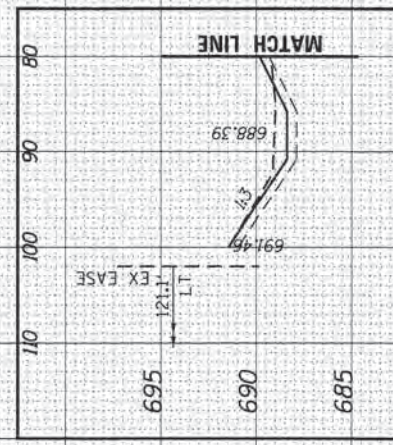
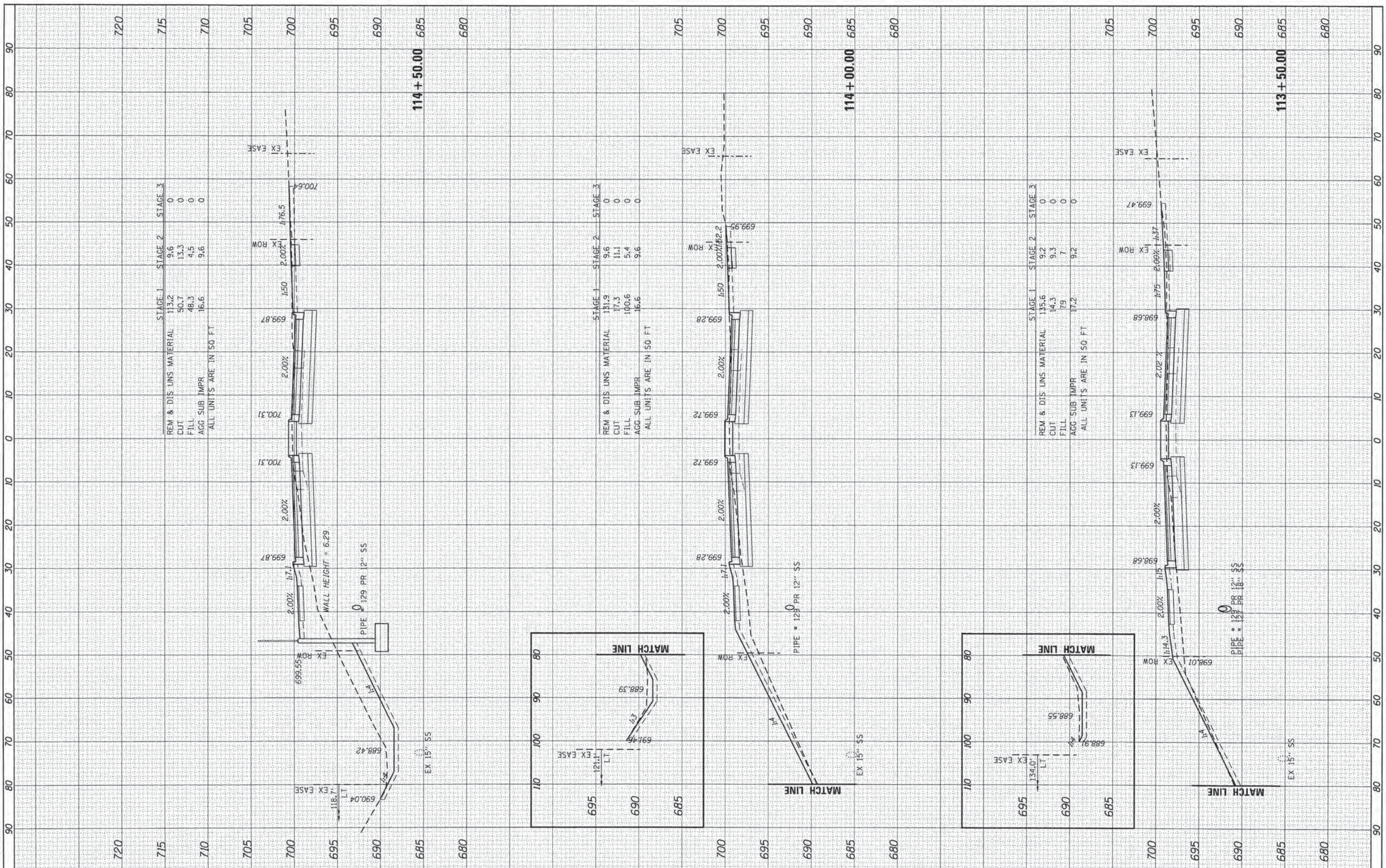




FINAL SURVEY	BY	DATE
SURVEYED		
PLOTTED		
NOTE BOOK		
AREAS		
AREAS CHECKED		

ORIGINAL SURVEY	BY	DATE
SURVEYED		
PLOTTED		
NOTE BOOK		
AREAS		
AREAS CHECKED		

HRG PROJECT NO. 6620284  
 HRG PROJ. CONTACT: 8620284-SP1-xscs-eola.dwg  
 FILE NAME: R\_pdr\_bwp1c1g  
 PLOT DRIVER: plottable.tbl  
 PEN TABLE:



STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS  
 EOLA ROAD

USER NAME = dstance	DESIGNED - JS	REVISED -
PLLOT SCALE = 10H:10V	DRAWN -	REVISED -
PLLOT DATE = 10/30/2015	CHECKED -	REVISED -
	DATE - 10/30/15	REVISED -

SCALE: 10H:10V SHEET NO. 6 OF 40 SHEETS STA. 113+50.00 TO STA. 114+50.00

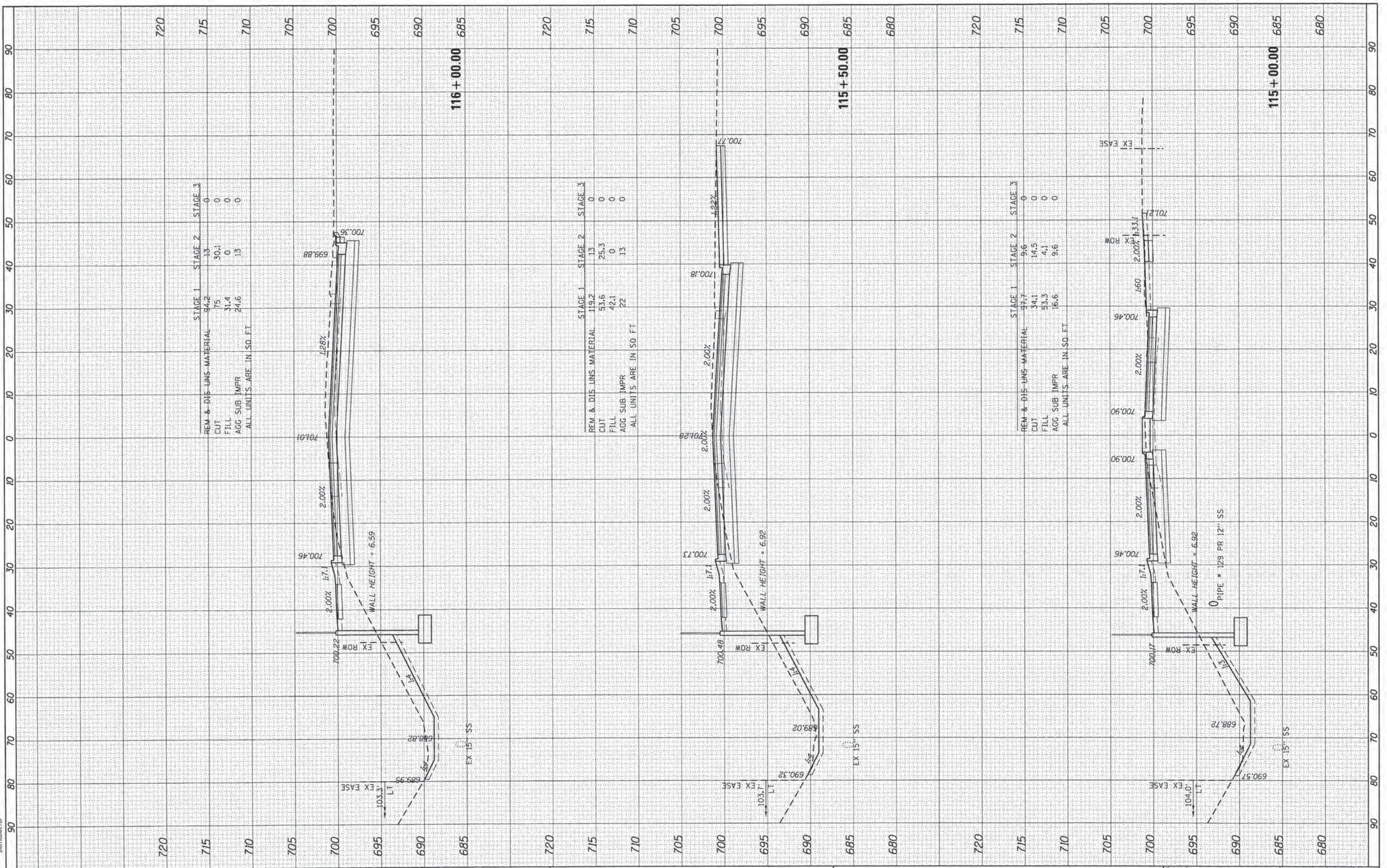
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FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 61C06	



FINAL SURVEY	BY	DATE
SURVEYED		
PLOTTED		
NOTE BOOK		
AREAS CHECKED		
NO.		

ORIGINAL SURVEY	BY	DATE
SURVEYED		
PLOTTED		
NOTE BOOK		
AREAS CHECKED		
NO.		

HRC PROJECT NO.: 8600384  
 HRC PROJ. CONTACT: 8600384-871-vevec-ecolodg  
 FILE NAME: 8600384-871-vevec-ecolodg  
 PLOT DRIVER: plot\_driver.tbl  
 PEN TABLE:



REM. & DIS. UNS. MATERIAL

STAGE 1	STAGE 2	STAGE 3
94.2	13	0
CUT 75	30.1	0
FILL 31.4	0	0
AGG SUB IMPR 24.6	13	0

ALL UNITS ARE IN SQ. FT.

REM. & DIS. UNS. MATERIAL

STAGE 1	STAGE 2	STAGE 3
119.2	13	0
CUT 51.6	25.3	0
FILL 42.1	0	0
AGG SUB IMPR 22	13	0

ALL UNITS ARE IN SQ. FT.

REM. & DIS. UNS. MATERIAL

STAGE 1	STAGE 2	STAGE 3
97.7	9.6	0
CUT 34.1	14.5	0
FILL 53.3	4.1	0
AGG SUB IMPR 16.6	9.6	0

ALL UNITS ARE IN SQ. FT.

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 Illinois Professional Design Firm  
 #184-01322

USER NAME = dstance
DESIGNED - JS
DRAWN -
CHECKED -
DATE - 10/30/15
PLLOT SCALE = 10H:10V
PLLOT DATE = 10/30/2015

REVISED -
REVISED -
REVISED -
REVISED -

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS			
EOLA ROAD			
SCALE: 10H:10V	SHEET NO. 7 OF 40 SHEETS	STA. 115+00.00	TO STA. 116+00.00

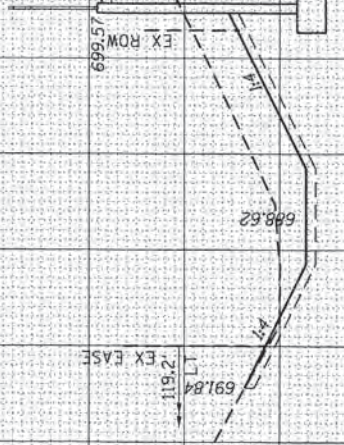
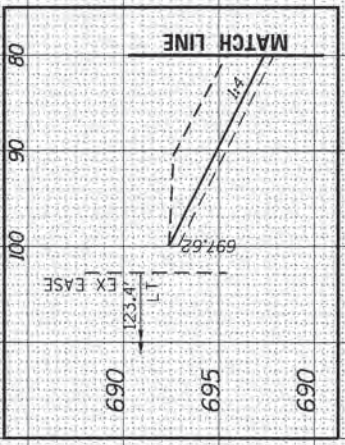
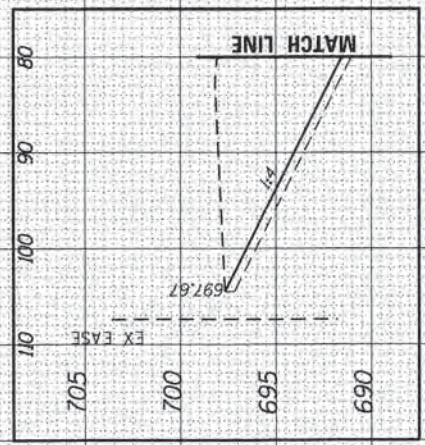
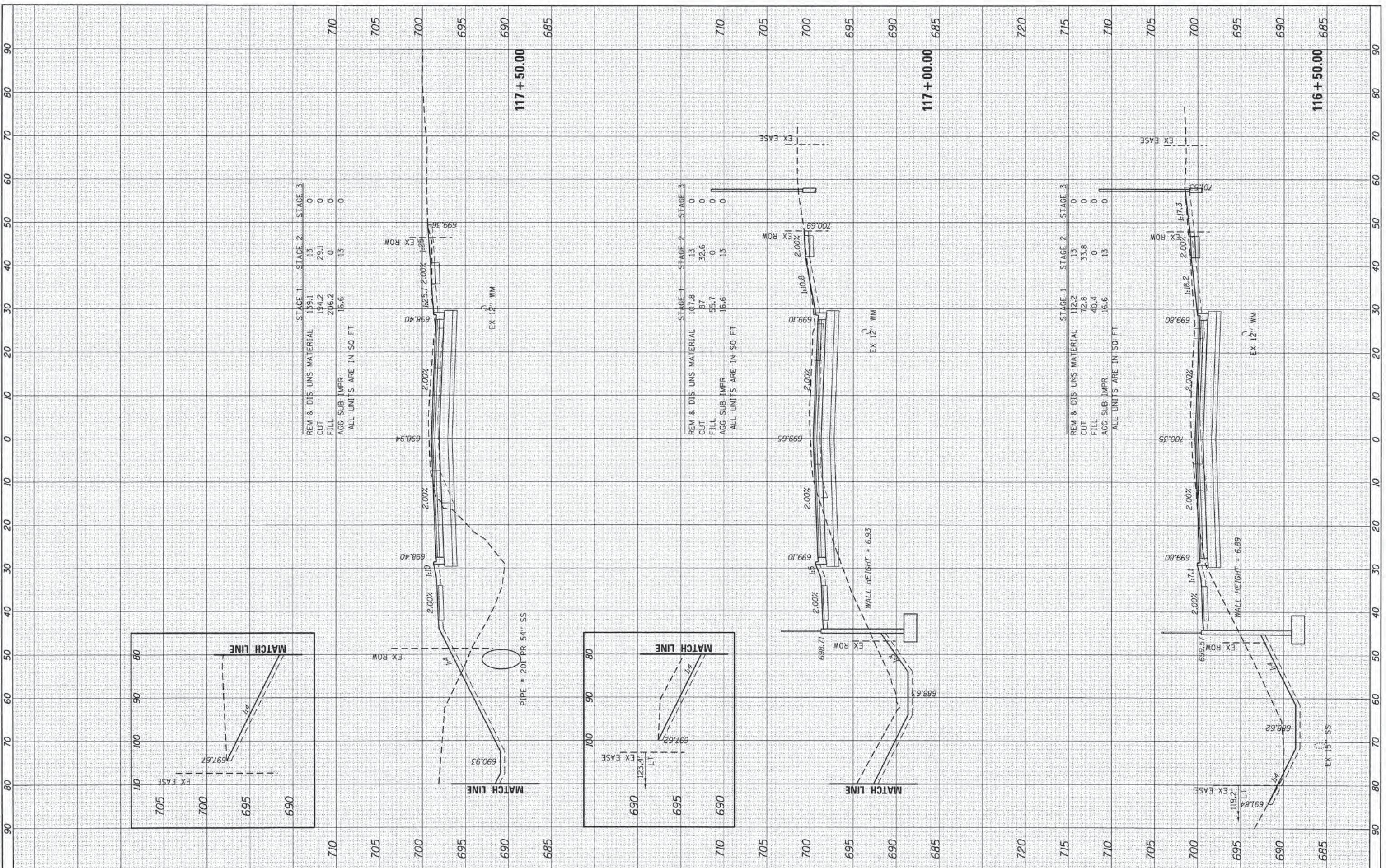
F.A.J. RTE.	SECTION NO.	COUNTY	TOTAL SHEETS	SHEET NO.
2531	10-00292-00-WR	DUPAGE	229	196
CONTRACT NO. 61C06			ILLINOIS FED. AID PROJECT	



FINAL SURVEY	BY	DATE
SURVEYED		
NOTE BOOK		
TEMPLATE		
AREAS CHECKED		
NO.		

ORIGINAL SURVEY	BY	DATE
SURVEYED		
NOTE BOOK		
TEMPLATE		
AREAS CHECKED		
NO.		

HRG PROJECT NO. 6630384  
 HRG PROJ. CONTACT: 6630384-011-xenos-edo.061  
 FILE NAME: il\_def\_bwp1c1g  
 PLOT DRIVER: plotobj.tbl  
 PEN TABLE:



STAGE 1	STAGE 2	STAGE 3
REM & DIS LINS MATERIAL	139.1	13
CUT	194.2	29.1
FILL	206.2	0
AGG SUB IMPR	16.6	13
ALL UNITS ARE IN SQ FT		

STAGE 1	STAGE 2	STAGE 3
REM & DIS LINS MATERIAL	107.8	13
CUT	87	32.6
FILL	55.7	0
AGG SUB IMPR	16.6	13
ALL UNITS ARE IN SQ FT		

STAGE 1	STAGE 2	STAGE 3
REM & DIS LINS MATERIAL	112.2	13
CUT	72.8	33.8
FILL	40.4	0
AGG SUB IMPR	16.6	13
ALL UNITS ARE IN SQ FT		

USER NAME = dstanz	DESIGNED = JS	REVISED =
PLLOT SCALE = 10H:10V	DRAWN =	REVISED =
PLLOT DATE = 12/30/2015	CHECKED =	REVISED =
	DATE = 10/30/15	REVISED =

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS  
 EOLA ROAD  
 SCALE: 10H:10V SHEET NO. 8 OF 40 SHEETS STA. 116+50.00 TO STA. 117+50.00

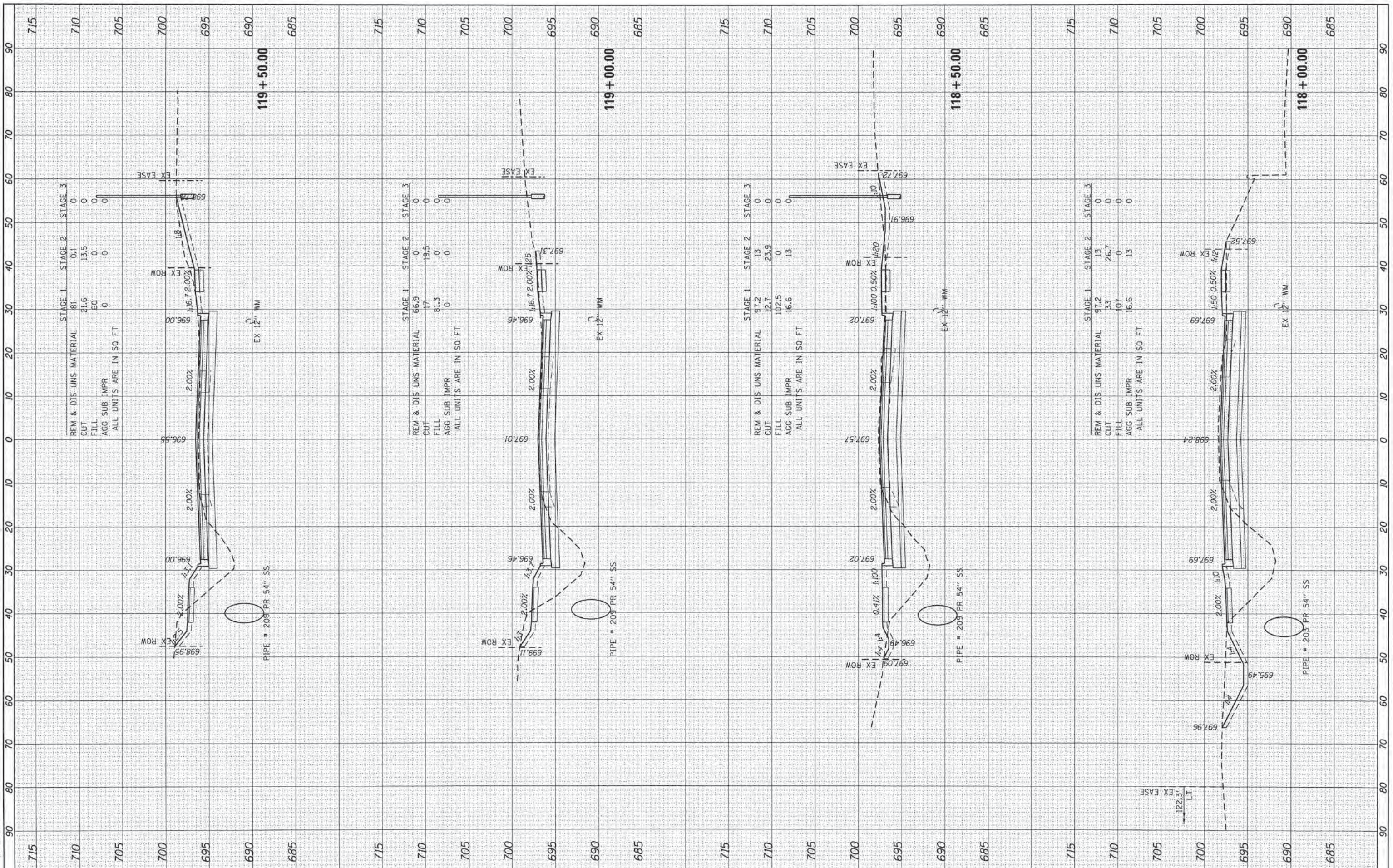
F.A.U. RTE. 2531	SECTION NO. 10-00292-00-WR	COUNTY DUPAGE	TOTAL SHEETS 229	SHEET NO. 197
CONTRACT NO. 61C06			ILLINOIS FED. AID PROJECT	



FINAL SURVEY	BY	DATE
PLOTTED		
NOTE BOOK		
AREAS		
AREAS CHECKED		

ORIGINAL SURVEY	BY	DATE
PLOTTED		
NOTE BOOK		
AREAS		
AREAS CHECKED		

HRG PROJECT NO. 8610184  
 HRG PROJ CONTACT: 8610184-01-0000-0000-0000  
 FILE NAME: 8610184-01-0000-0000-0000-0000.dwg  
 PLOT DRIVER: plot\_driver.plt  
 PEN TABLE:



USER NAME =	dstancz
DESIGNED =	JS
DRAWN =	
CHECKED =	
DATE =	10/30/15

REVIS	
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REVIS	

PLT SCALE =	10ft=10V
PLT DATE =	10/30/2015

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS  
EOLA ROAD**

SCALE: 10H:10V SHEET NO. 9 OF 40 SHEETS STA. 118+00.00 TO STA. 119+50.00

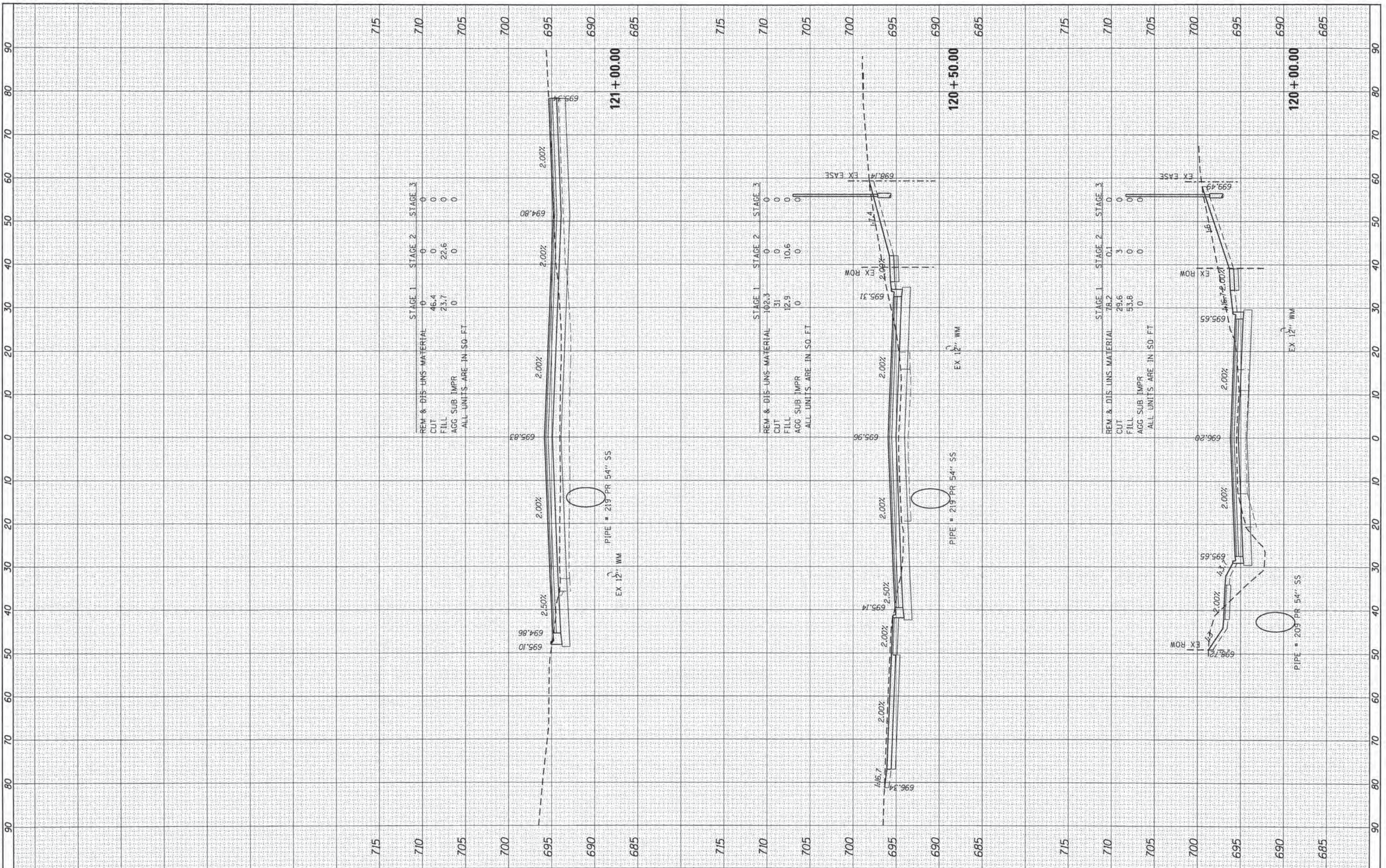
F.A.U. RTE.	SECTION NO.	COUNTY	TOTAL SHEETS	SHEET NO.
2531	10-00292-00-WR	DUPAGE	229	198
CONTRACT NO.			61C06	
FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT				



FINAL SURVEY	BY	DATE
SURVEYED		
PLOTTED		
NOTE BOOK		
AREAS		
AREAS CHECKED		
NO.		

ORIGINAL SURVEY	BY	DATE
SURVEYED		
PLOTTED		
NOTE BOOK		
AREAS		
AREAS CHECKED		
NO.		

HRG PROJECT NO. 1 86101384  
 HRG PROJ. CONTACT 86101384-ghr-ssacs-ecdc-ep  
 FILE NAME: 10\_30\_15\_10\_30\_15\_10\_30\_15\_10\_30\_15  
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**HRGreen.com**  
 Illinois Professional Design Firm  
 #194-001302

USER NAME = dstantcz	DESIGNED = JS	REVISED =
PLOT SCALE = 10H:10V	DRAWN =	REVISED =
PLOT DATE = 10/30/2015	CHECKED =	REVISED =
	DATE = 10/30/15	REVISED =

STATE OF ILLINOIS	DEPARTMENT OF TRANSPORTATION
CROSS SECTIONS	EOLA ROAD
SCALE: 10H:10V	SHEET NO. 10 OF 40 SHEETS
STA. 120+00.00	TO STA. 121+00.00

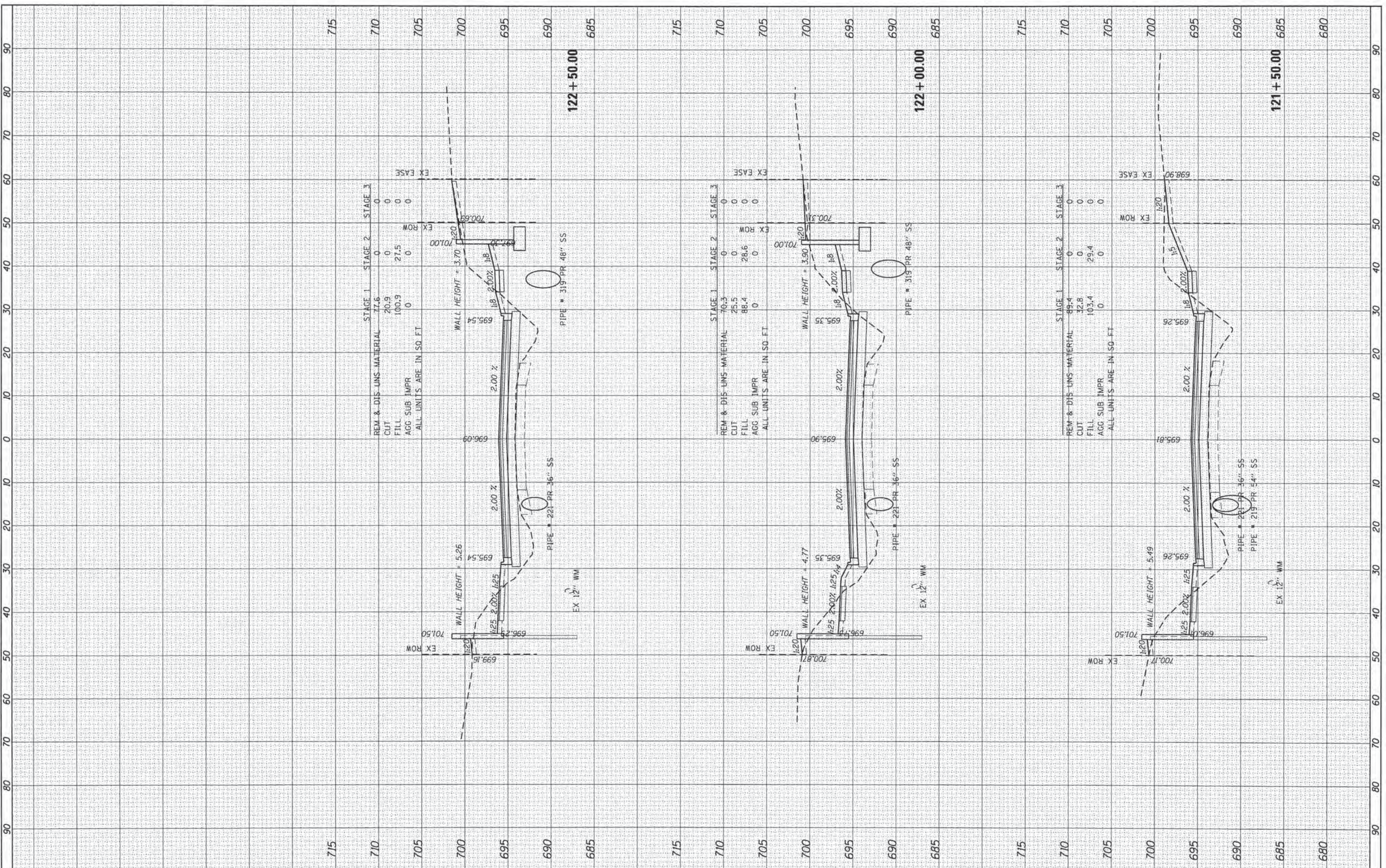
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FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT			CONTRACT NO. 61C06	



FINAL SURVEY	BY	DATE
SURVEYED		
NOTE BOOK		
TEMPLATE		
AREAS CHECKED		
NO.		

ORIGINAL SURVEY	BY	DATE
SURVEYED		
NOTE BOOK		
TEMPLATE		
AREAS CHECKED		
NO.		

HRG PROJECT NO. 86303364  
 HRG PROJ. CONTACTS  
 FILE NAME: 86303364-011-xenics-000.dgn  
 PLOT DRIVER: i\_per\_bwp.ctb  
 PEN TABLE: plot.tbl



HRGreen.com Illinois Professional Design Firm # 184-001322	USER NAME = dstoncz	DESIGNED - JS	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>CROSS SECTIONS EOLA ROAD</b>		F.A.U. RTE. 2531	SECTION NO. 10-00292-00-WR	COUNTY DUPAGE	TOTAL SHEETS 229	SHEET NO. 200
HRGreen	PLOT SCALE = 10H:10V	CHECKED -	REVISED -		SCALE: 10H:10V	SHEET NO. 11 OF 40 SHEETS	STA. 121+50.00 TO STA. 122+50.00	CONTRACT NO. 61C06		ILLINOIS FED. AID PROJECT	
	PLOT DATE = 10/30/2015	DATE - 10/30/15	REVISED -								