

SCHEDULE OF QUANTITIES

ITEM DESCRIPTION	UNITS	TOTAL QTY.
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	594
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	2
TRANSCEIVER - FIBER OPTIC	EACH	1
ELECTRIC CABLE IN CONDUIT, TRACER, NO. 14 1C	FOOT	1681
DRILL EXISTING HANDHOLE	EACH	2
FIBER OPTIC CABLE IN CONDUIT, NO. 62.5/125, MM12F SM24F	FOOT	1681
OPTIMIZE TRAFFIC SIGNAL SYSTEM	EACH	1

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

TS SHT NO.19

ITS DRAWING LIST:

SHEET NO.	TITLE
ITS-1	ITS SHEET INDEX, STANDARDS & NOTES
ITS-2	FIBER OPTIC CABLE REPLACEMENT
ITS-3	FIBER OPTIC CABLE REPLACEMENT
ITS-4	FIBER OPTIC CABLE REPLACEMENT
ITS-5	FIBER OPTIC CABLE REPLACEMENT
ITS-6	FIBER OPTIC CABLE REPLACEMENT
ITS-7	FIBER OPTIC CABLE REPLACEMENT
ITS-8	FIBER OPTIC CABLE REPLACEMENT
ITS-9	FIBER OPTIC CABLE TEMPORARY ROUTING
ITS-10	FIBER OPTIC CABLE TEMPORARY ROUTING
ITS-11	AS-BUILT I-55 (LORENZO RD TO I-80) CABINET 34, 35 AND INTERCHANGE US RTE. 6
ITS-12	FIBER ROUTE DIAGRAM
ITS-13	CABINET MODEL 334 - WIRING DETAILS
ITS-14	LORENZO RD. PATCH PANEL TERMINATION CABINET
ITS-15	RECTANGULAR INDUCTION LOOP - TYPICAL
ITS-16	PREFORMED LOOP TYPICAL INSTALLATION - NON-BRIDGE DECK APPLICATION
ITS-17	PREFORMED LOOP TYPICAL INSTALLATION - NEW CONCRETE PAVEMENT
ITS-18	TRAFFIC SURVEILLANCE - 2 LANE SPEED COUNT CLASSIFICATION STATION

ABBREVIATIONS:

ADF	ADD/DROP, FIBER OPTIC (CWDM OR OTHER)
CAX	COAX CABLE
CSC	CABLE SPLICE, COPPER
CSF	CABLE SPLICE, FIBER OPTIC
CTD	CCTV CAMERA, DOME
CTF	CCTV CAMERA, FIXED POSITION
CBT	CHANNEL BANK, T1
CCC	CONTROL CABLE, COPPER
CVB	CONTROLLER, VIDEO, BACK-UP
CVP	CONTROLLER, VIDEO, PRIMARY
DAV	DISTRIBUTION AMPLIFIER, VIDEO
DCC	DISTRIBUTION CABLE, COPPER
DCF	DISTRIBUTION CABLE, FIBER OPTIC
DEC	DECODER (CODEC MPEG2)
DMS	DYNAMIC MESSAGE SIGN
VRD	VIDEO RECORDER, DIGITAL
ENC	ENCODER (CODEC MPEG2)
ETH	ETHERNET CABLE
GSC	GALVANIZED STEEL CONDUIT
HHL	HANDHOLE
JBC	JUNCTION BOX, CONTROL (COPPER)
JBF	JUNCTION BOX, FIBER OPTIC CABLE
JBP	JUNCTION BOX, POWER
KBD	KEYBOARD
LDI	LOOP DETECTOR, INDUCTION
LDM	LOOP DETECTOR, MICROLOOP
MDF	MUX/DEMUX, FIBER (CWDM)
MON	MONITOR, COMPUTER
MVD	MONITOR, VIDEO
MVR	MONITOR, VIDEO, FLAT PANEL RACK (LCD RACK)
MXS	MULTIPLEXER, SONET
PCE	PATCH CABLE, ETHERNET
PCF	PATCH CABLE, FIBER
PLP	PULLING PEDESTAL
PPC	PATCH PANEL, COPPER
PPE	PATCH PANEL, ETHERNET
PPF	PATCH PANEL, FIBER
PPV	PATCH PANEL, VIDEO
RMC	RADIO, MICROWAVE, CONTROL (UNLICENSED)
RMV	RADIO, MICROWAVE, VIDEO (UNLICENSED)
RXF	RECEIVER, FIBER OPTIC
RXT	RECEIVER, FSK TONE
SCF	SPLITTER/COMBINER, FIBER OPTIC (CWDM)
SPV	SIGNAL SPLITTER VIDEO
SSV	SELECTOR SWITCH, VIDEO (MANUAL)
SWE	SWITCH, ETHERNET
SWV	SWITCH, VIDEO
TCC	TRUNK CABLE, COPPER
TCF	TRUNK CABLE, FIBER OPTIC
TLC	TLC WATCH EQUIPMENT
TXF	TRANSMITTER, FIBER OPTIC
TXT	TRANSMITTER, FSK TONE
VCD	VIDEO CAPTURE DEVICE
VCL	VIDEO CONTROL LOCATION
VCP	VIDEO COLLECTION POINT
WST	USER WORK STATION

BILL OF MATERIALS

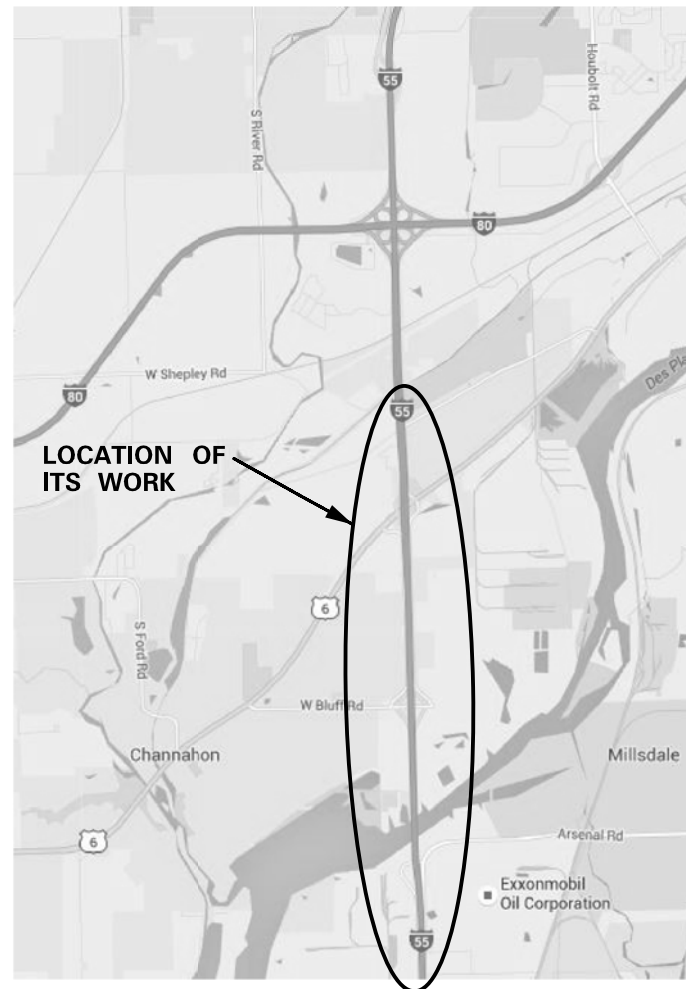
DESCRIPTION	UNIT	TOTAL QUANTITY
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	130
UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	300
ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 6	FOOT	260
AERIAL CABLE, 2-1/C NO. 6 WITH MESSENGER WIRE	FOOT	120
TEMPORARY WOOD POLE, 50 FOOT, CLASS 3	EACH	5
TEMPORARY AERIAL FIBER OPTIC CABLE, 96 FIBERS, SINGLE MODE	FOOT	1,000
SPAN WIRE	FOOT	1,000
FIBER OPTIC CABLE SPLICE - LATERAL	EACH	14
FIBER OPTIC CABLE SPLICE - MAINLINE	EACH	8
FIBER OPTIC INNERDUCT 1 1/4" DIA.	FOOT	1,500
REMOVAL OF FIBER OPTIC CABLE	FOOT	30,000
MAINTAINANCE OF EXISTING TRAFFIC SURVEILLANCE	L SUM GAL MO	1 0
FIBER OPTIC CABLE 96 FIBERS, SINGLE MODE	FOOT	30000
INDUCTION LOOP	FOOT	108

LEGEND:

	42"x36"x12" JUNCTION BOX
	COMMUNICATION VAULT
	HEAVY DUTY HAND HOLE
	HEAVY DUTY HAND HOLE SPECIAL COMMUNICATIONS
	(2) 1 1/4 IN. FIBER OPTIC INNER DUCT - EACH HAS 96 SM FIBERS
	EXISTING FIBER OPTIC INNER DUCTS AND FIBERS TO BE REMOVED
	TEMPORARY AERIAL CABLE EACH HAS 96 SM FIBERS
	2 IN. P-DUCT TRENCHED (T)
	CONDUIT ATTACHED TO STRUCTURE, 4" DIA., PVC COATED GALVANIZED STEEL
	GALVANIZED RIGID STEEL CONDUIT TRENCHED (T), TYPE AND SIZE AS NOTED
	GALVANIZED RIGID STEEL CONDUIT PUSHED (P), TYPE AND SIZE AS NOTED

GENERAL NOTES

1. MAINLINE SPLICES SHALL UTILIZE 2 COMMUNICATION VAULTS (ONE NEXT TO THE OTHER UNLESS OTHERWISE NOTED). 1-96 SM FIBER MAINLINE SPLICE IN ONE VAULT AND THE OTHER 96 SM FIBER MAINLINE SPLICE IN THE OTHER VAULT. ALL VAULTS SHALL HAVE 200 FEET OF SLACK, FOR EACH 96 SM FIBER OPTIC CABLE, UNLESS OTHERWISE NOTED.
2. THE CONTRACTOR SHALL EXERCISE CARE WITH THE INSTALLATION OF UNDERGROUND EQUIPMENT AS THERE ARE EXISTING PRIVATELY OWNED UTILITIES WITHIN THE PROJECT LIMITS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO CONTACT ANY UTILITIES IN THE WORK ZONE AND REQUEST LOCATES.



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CHRISTIAN-ROGE & ASSOCIATES, INC.
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IDFPR LICENSE NO. 184.002873 web: www.SpaanTech.com

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CHECKED - IB	REVISED -
DATE - JANUARY 15, 2016	REVISED -

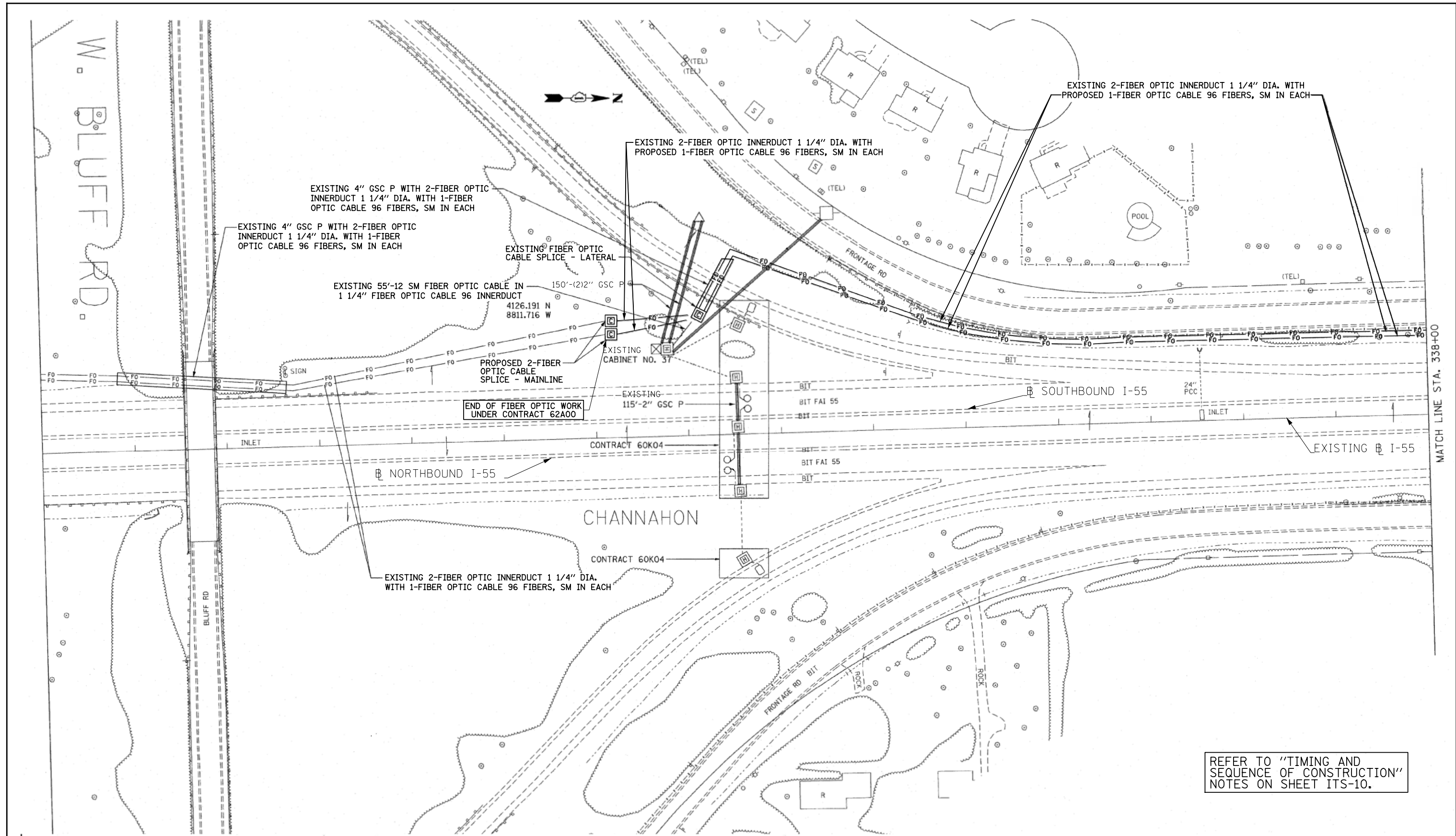
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ITS SHEET INDEX, STANDARDS & NOTES	
SCALE: NONE	SHEET NO. 1 OF 17 SHEETS
STA. 709+55	TO STA. 723+00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	2014-065-R	WILL	188	102
CONTRACT NO. 62A00				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

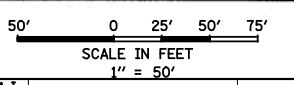
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REFER TO "TIMING AND SEQUENCE OF CONSTRUCTION" NOTES ON SHEET ITS-10.

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	PLOT DATE = 4/28/2018	CHECKED -	REVISED -			SCALE: 1" = 50'		SHEET NO. OF SHEETS		STA. TO STA.	
		DATE -	REVISED -			FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT					

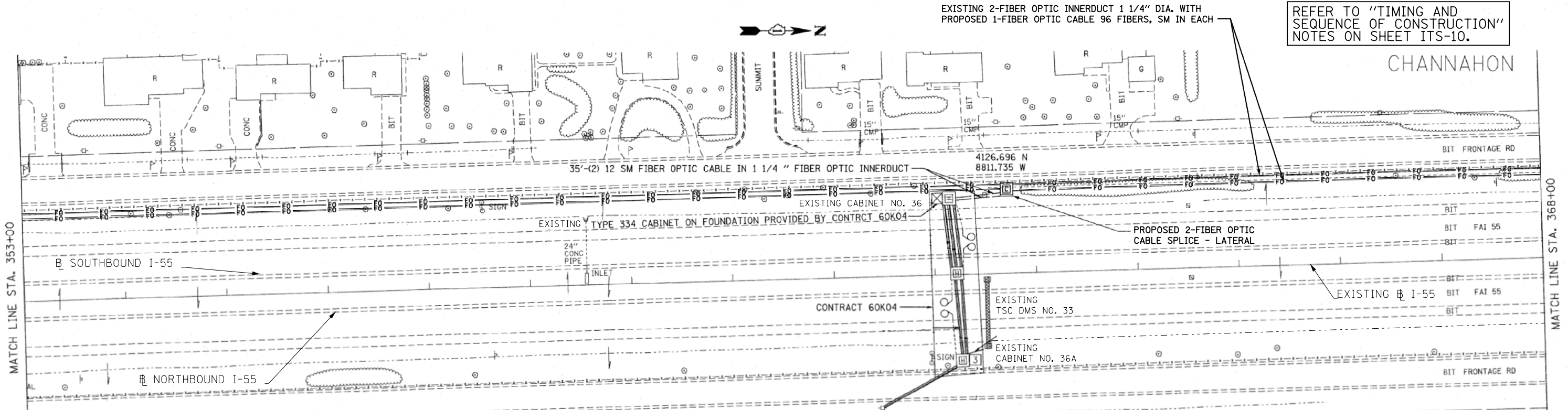
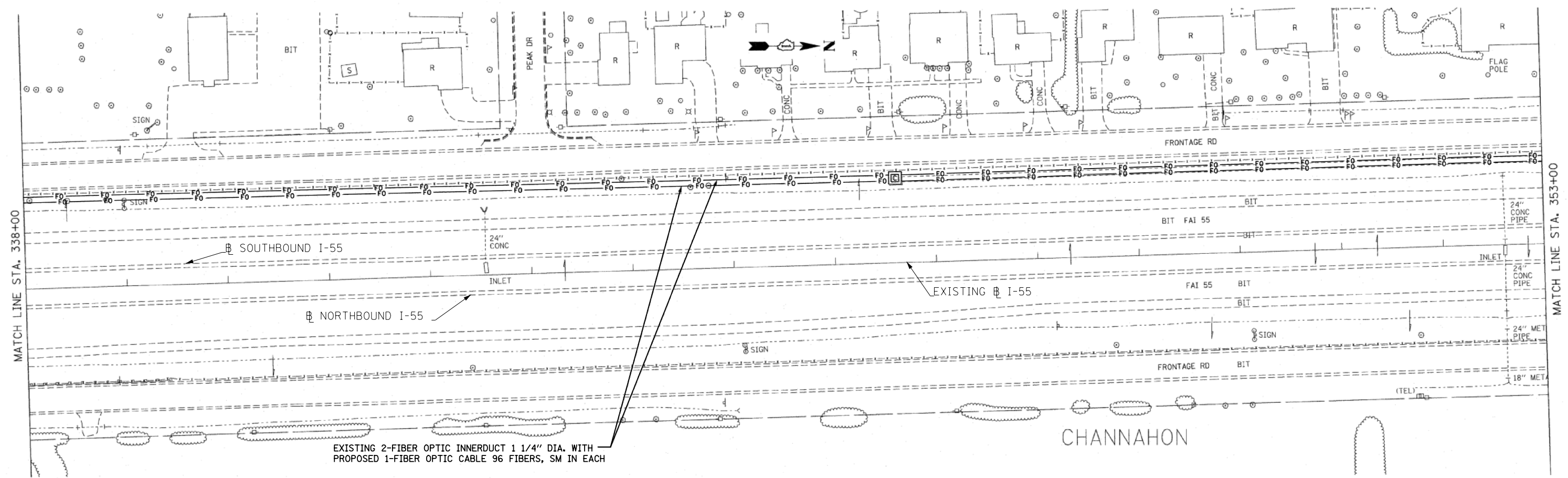


ITS-2

	DESIGNED - YK	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	FIBER OPTIC CABLE REPLACEMENT I-55 AT US 6	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
	DRAWN - RC	REVISED -			55	2014-065-R	WILL	188	103	
	CHECKED - IB	REVISED -			SCALE: 1" = 50'		SHEET NO. 2 OF 17 SHEETS		STA. TO STA.	
	DATE - JANUARY 15, 2016	REVISED -			FED. ROAD DIST. NO. 1 [ILLINOIS] FED. AID PROJECT					

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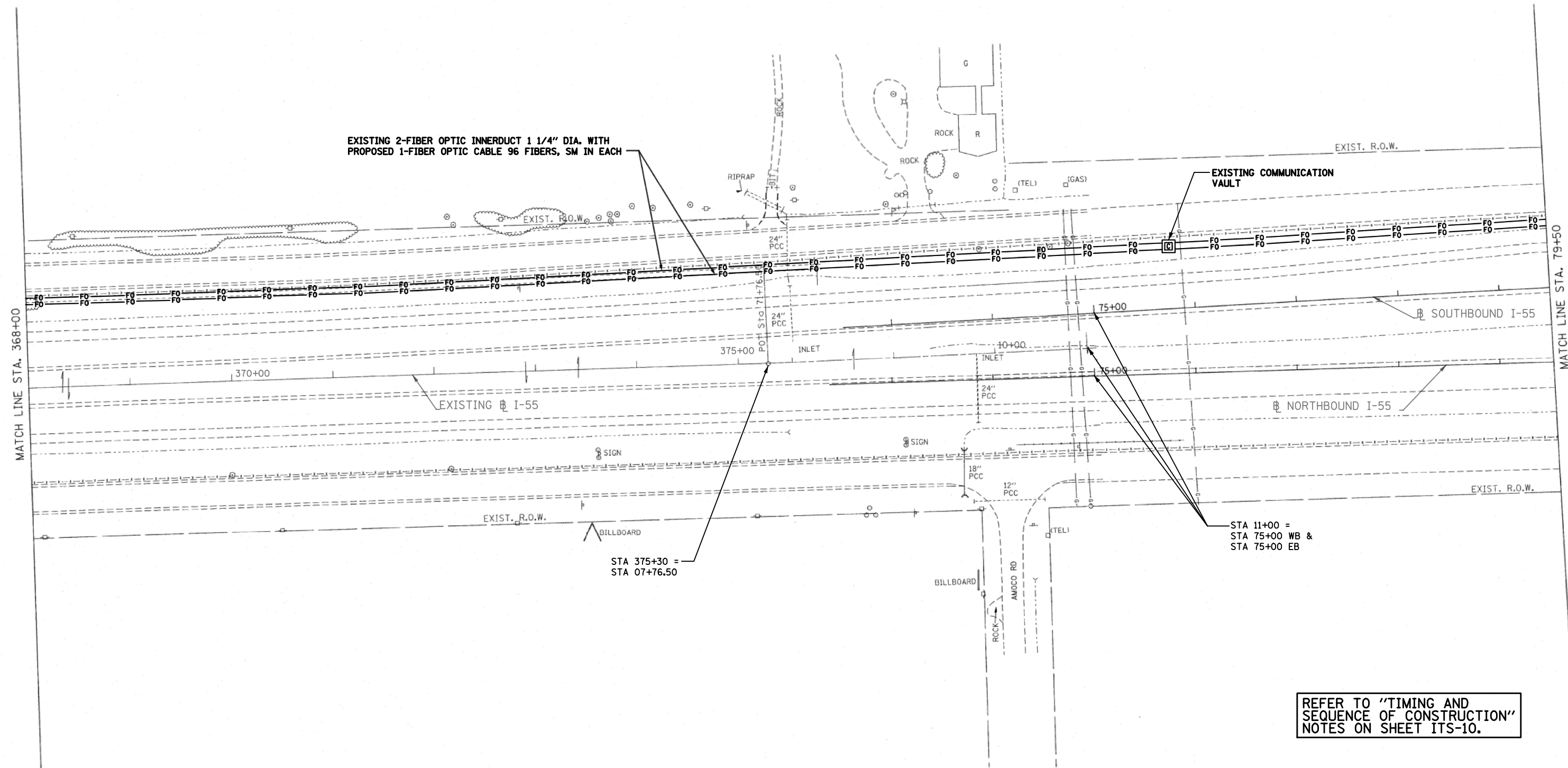


FILE NAME = P:\P-27-1686-12\client\TSC Plans\SH019.dgn	USER NAME = wangram	DESIGNED - J.G.	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION TRAFFIC SYSTEMS CENTER	FIBER OPTIC CABLE INSTALLATION - I-55 (LORENZO ROAD TO I-80) 1/2 MILE NORTH OF BLUFF ROAD			F.A.I. RTE. 55	SECTION 2009-112 I	COUNTY WILL	TOTAL SHEETS 56	SHEET NO. 19
PLOT SCALE = #SCALE#	CHECKED - J.G.	REVISIED -	REVISIED -		SCALE: 1" = 50'	SHEET NO.	OF SHEETS	STA.	TO STA.	CONTRACT NO. 60J24		
PLOT DATE = 3/18/2010	DATE - 03/12/2010	REVISIED -	REVISIED -		FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT							
<p>SCALE IN FEET 1" = 50'</p>												

	CHRISTIAN-ROGE & ASSOCIATES, INC. ENGINEERS-PLANNERS-SURVEYORS 211 WEST WACKER DRIVE CHICAGO, ILLINOIS 60606 PHONE: (312)372-2023 FAX: (312)372-5274		DESIGNED - YK	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	FIBER OPTIC CABLE REPLACEMENT I-55 AT US 6			F.A.I. RTE. 55	SECTION 2014-065-R	COUNTY WILL	TOTAL SHEETS 188	SHEET NO. 104
	311 South Wacker Drive, Suite 2400 Chicago, IL 60606 phone: 312.277.8800 fax: 312.277.8800 IDFP license NO. 184.002873 web: www.spaan-tech.com			DRAWN - RC		REVISED -	SCALE: 1" = 50'	SHEET NO. 3	OF 17 SHEETS	STA.	TO STA.	CONTRACT NO. 62A00	
CHECKED - IB	REVISED -	FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT											
DATE - JANUARY 15, 2016	REVISED -												

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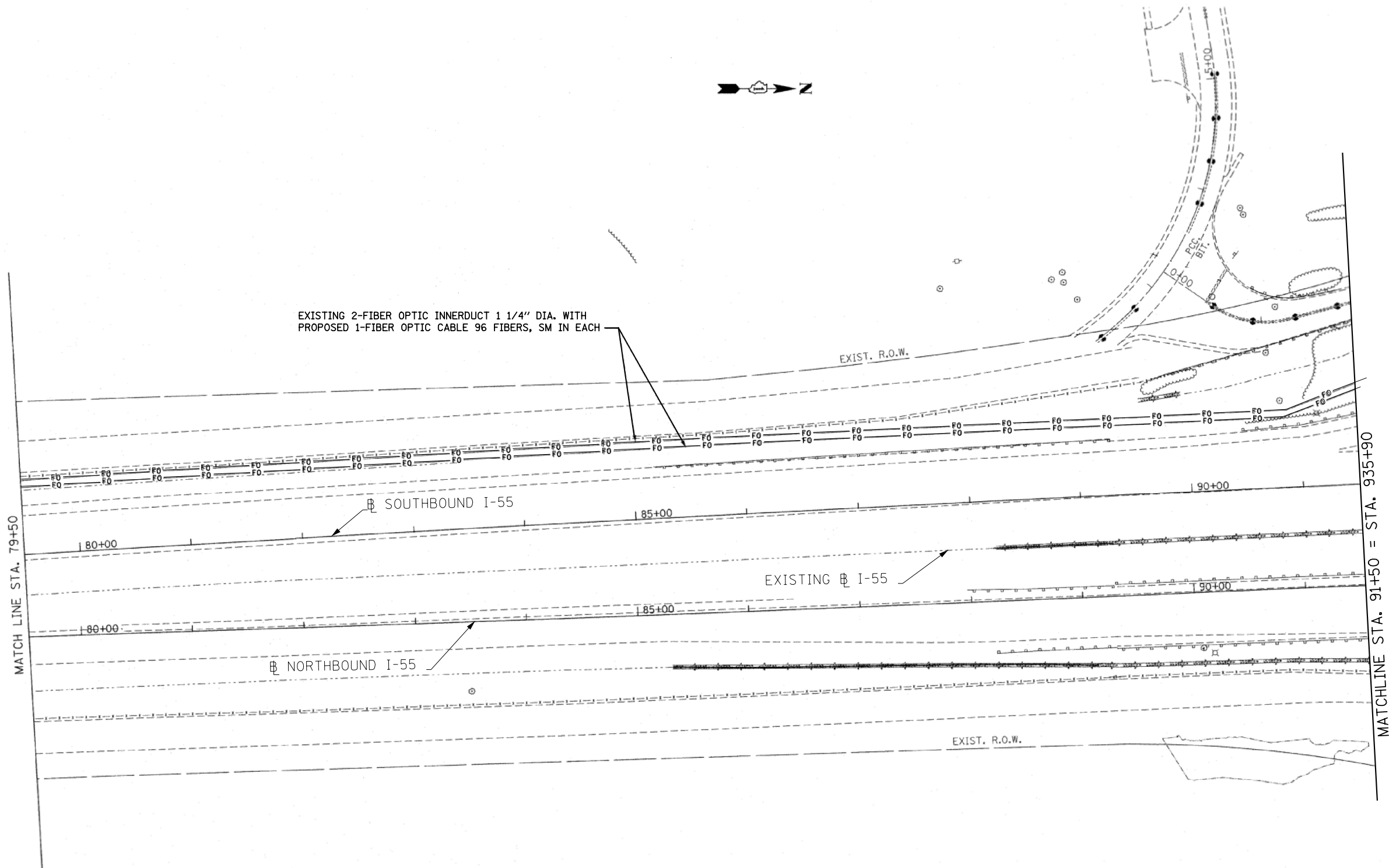
REFER TO "TIMING AND SEQUENCE OF CONSTRUCTION" NOTES ON SHEET ITS-10.

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PLOT DATE = 3/18/2010	DATE - 03/12/2010	REVISED -	FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT							
						SCALE IN FEET 50' 0 25' 50' 75' 1" = 50'				

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		DRAWN - RC	REVISED -			CONTRACT NO. 62A00				
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DATE - DECEMBER 17, 2015	REVISED -									

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REFER TO "TIMING AND SEQUENCE OF CONSTRUCTION" NOTES ON SHEET ITS-10.

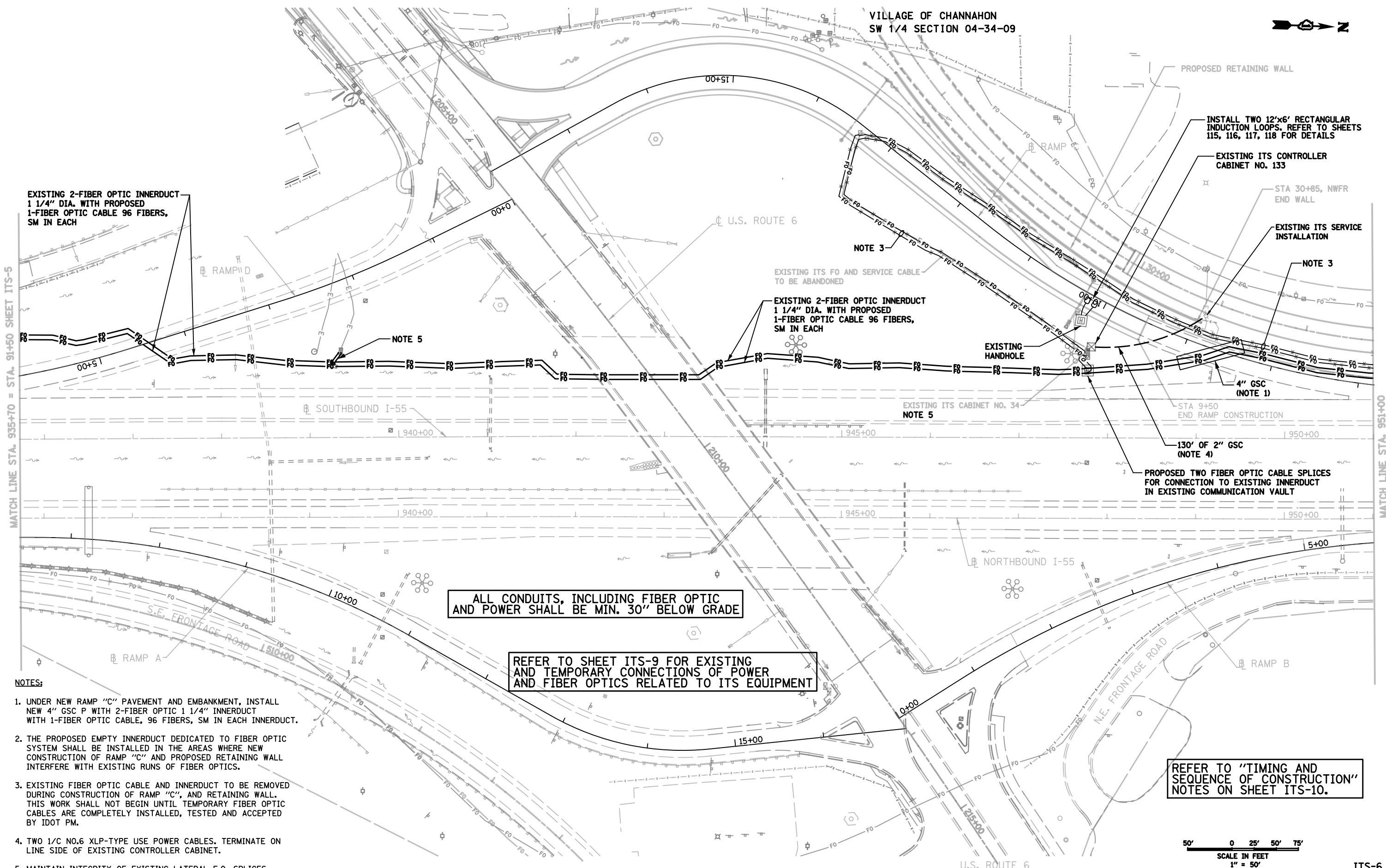
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	PLOT DATE = 3/18/2010	CHECKED - J.G.	REVISED -		FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT								
		DATE - 03/12/2010	REVISED -										

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			DRAWN - RC	REVISED -		SCALE: 1" = 50'	SHEET NO. 5	OF 17 SHEETS	STA.	TO STA.	CONTRACT NO. 62A00			
			CHECKED - IB	REVISED -		FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT								
			DATE - JANUARY 15, 2016	REVISED -										



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EXISTING 2-FIBER OPTIC INNERDUCT 1 1/4" DIA. WITH PROPOSED 1-FIBER OPTIC CABLE 96 FIBERS, SM IN EACH

EXISTING 2-FIBER OPTIC INNERDUCT 1 1/4" DIA. WITH PROPOSED 1-FIBER OPTIC CABLE 96 FIBERS, SM IN EACH

INSTALL TWO 12'x6' RECTANGULAR INDUCTION LOOPS, REFER TO SHEETS 115, 116, 117, 118 FOR DETAILS

EXISTING ITS CONTROLLER CABINET NO. 133

EXISTING ITS SERVICE INSTALLATION

EXISTING HANDHOLE

EXISTING ITS CABINET NO. 34

PROPOSED TWO FIBER OPTIC CABLE SPLICES FOR CONNECTION TO EXISTING INNERDUCT IN EXISTING COMMUNICATION VAULT

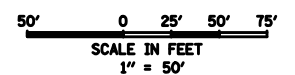
ALL CONDUITS, INCLUDING FIBER OPTIC AND POWER SHALL BE MIN. 30" BELOW GRADE

REFER TO SHEET ITS-9 FOR EXISTING AND TEMPORARY CONNECTIONS OF POWER AND FIBER OPTICS RELATED TO ITS EQUIPMENT

REFER TO "TIMING AND SEQUENCE OF CONSTRUCTION" NOTES ON SHEET ITS-10.

NOTES:

1. UNDER NEW RAMP "C" PAVEMENT AND EMBANKMENT, INSTALL NEW 4" GSC P WITH 2-FIBER OPTIC 1 1/4" INNERDUCT WITH 1-FIBER OPTIC CABLE, 96 FIBERS, SM IN EACH INNERDUCT.
2. THE PROPOSED EMPTY INNERDUCT DEDICATED TO FIBER OPTIC SYSTEM SHALL BE INSTALLED IN THE AREAS WHERE NEW CONSTRUCTION OF RAMP "C" AND PROPOSED RETAINING WALL INTERFERE WITH EXISTING RUNS OF FIBER OPTICS.
3. EXISTING FIBER OPTIC CABLE AND INNERDUCT TO BE REMOVED DURING CONSTRUCTION OF RAMP "C", AND RETAINING WALL. THIS WORK SHALL NOT BEGIN UNTIL TEMPORARY FIBER OPTIC CABLES ARE COMPLETELY INSTALLED, TESTED AND ACCEPTED BY IDOT PM.
4. TWO 1/C NO.6 XLP-TYPE USE POWER CABLES. TERMINATE ON LINE SIDE OF EXISTING CONTROLLER CABINET.
5. MAINTAIN INTEGRITY OF EXISTING LATERAL F.O. SPLICES.



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IDFPR LICENSE NO. 184.002673

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DATE - DECEMBER 17, 2015	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

FIBER OPTIC CABLE REPLACEMENT
I-55 AT US 6

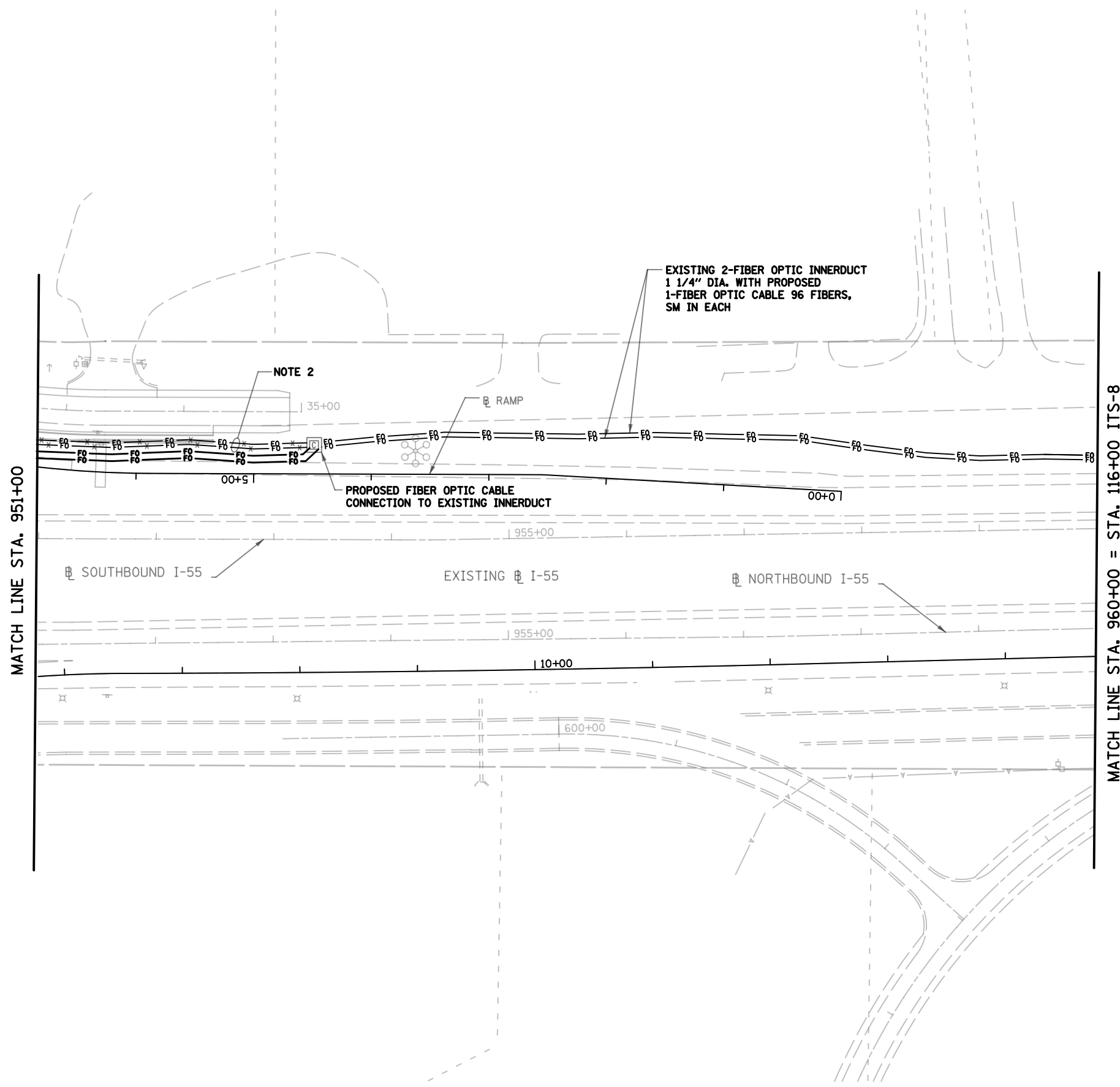
SCALE: 1" = 50' SHEET NO. 7 OF 17 SHEETS STA. TO STA.

F.A.T. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	2014-065-R	WILL	188	107
CONTRACT NO. 62A00				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



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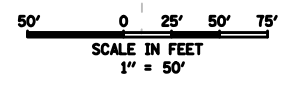


MATCH LINE STA. 960+00 = STA. 116+00 ITS-8

MATCH LINE STA. 951+00

REFER TO "TIMING AND SEQUENCE OF CONSTRUCTION" NOTES ON SHEET ITS-10.

- NOTES:**
1. PROVIDE ALL NECESSARY TERMINATIONS, INTERCONNECTIONS AND REQUIRED TESTING OF FIBER OPTIC CABLES.
 2. EXISTING FIBER OPTIC CABLE TO BE REMOVED DURING CONSTRUCTION OF RAMP "C".



ITS-7

	CHRISTIAN-ROGE & ASSOCIATES, INC. ENGINEERS-PLANNERS-SURVEYORS 211 WEST WACKER DRIVE CHICAGO, ILLINOIS 60606 PHONE: (312)372-2023 FAX: (312)372-5274		311 South Wacker Drive, Suite 2400 Chicago, IL 60606 phone: 312.277.8800 IDPR LICENSE NO. 184.002673 web: www.spaan-tech.com
	DESIGNED - YK DRAWN - RC CHECKED - IB DATE - DECEMBER 17, 2015		REVISED - REVISED - REVISED - REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

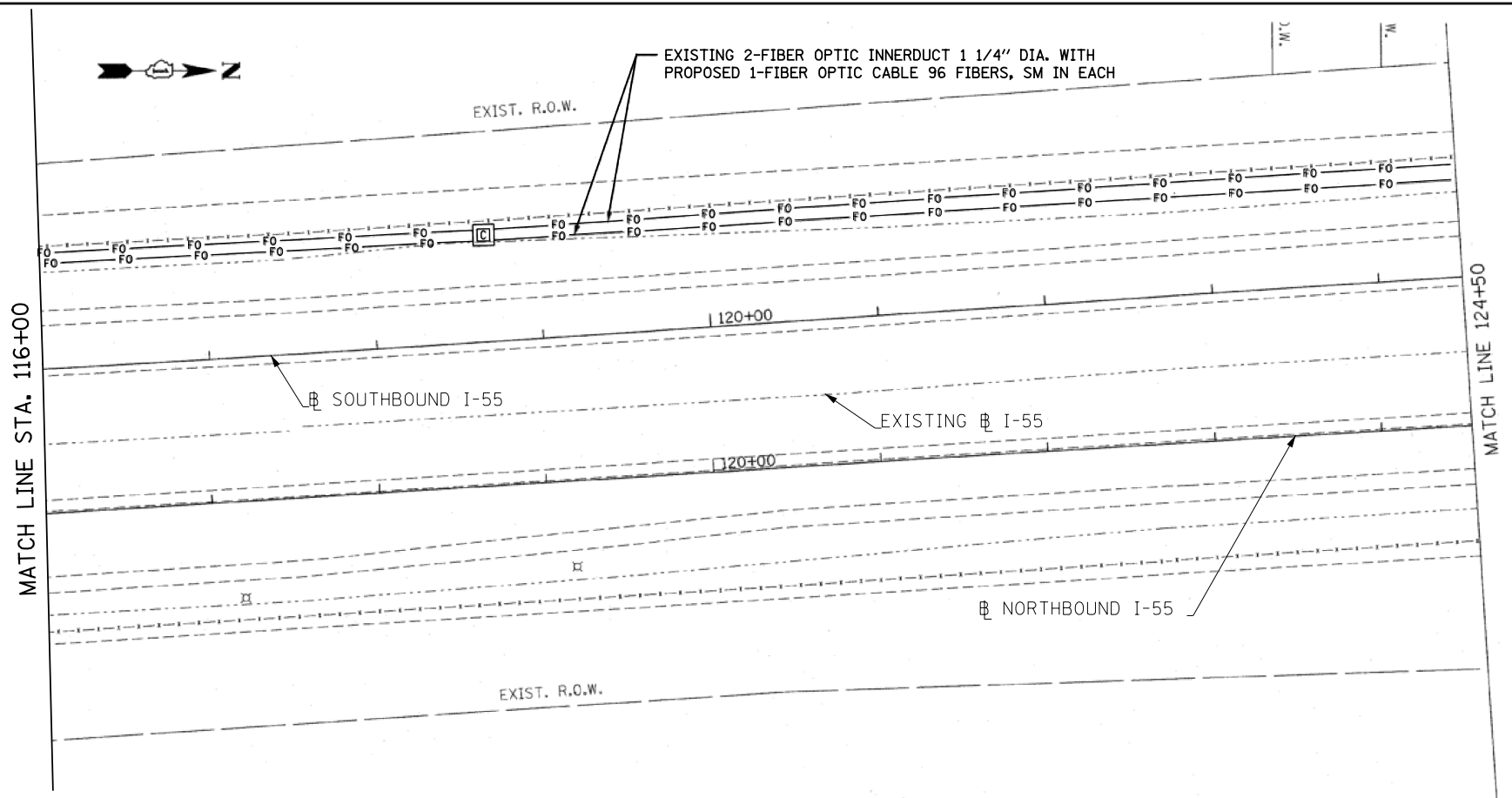
**FIBER OPTIC CABLE REPLACEMENT
I-55 AT US 6**

SCALE: 1" = 50' SHEET NO. 7 OF 17 SHEETS STA. TO STA.

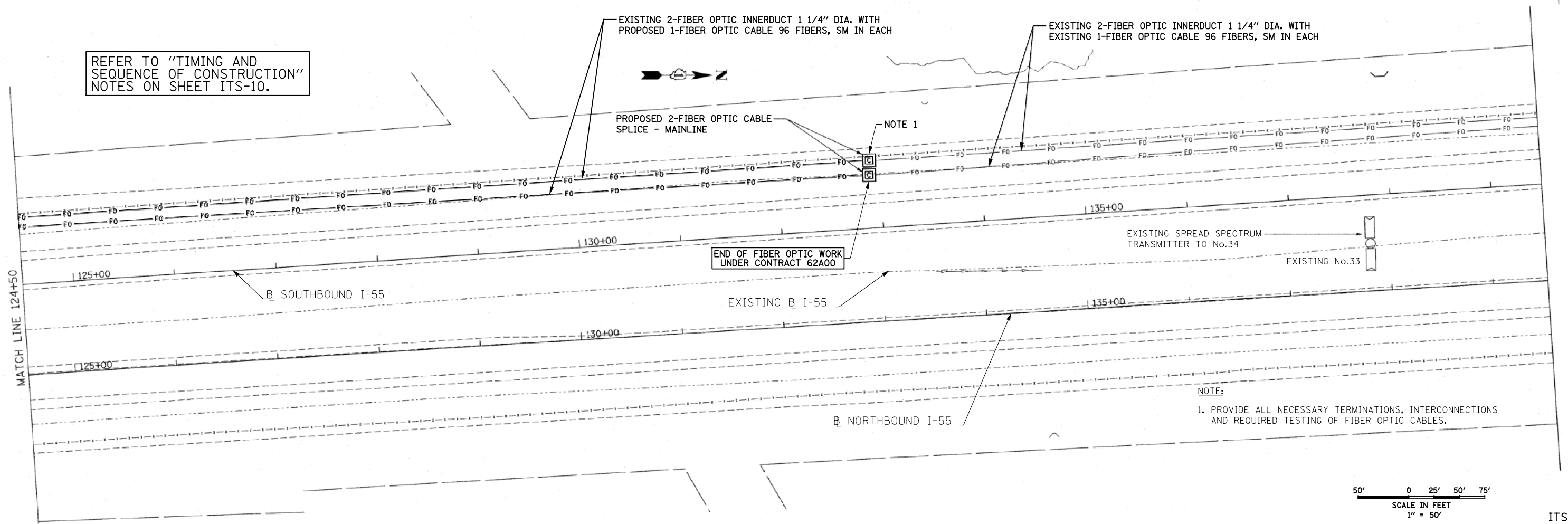
F.A.T. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	2014-065-R	WILL	188	108
CONTRACT NO. 62A00			FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT	

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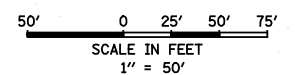
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REFER TO "TIMING AND SEQUENCE OF CONSTRUCTION" NOTES ON SHEET ITS-10.



NOTE:
1. PROVIDE ALL NECESSARY TERMINATIONS, INTERCONNECTIONS AND REQUIRED TESTING OF FIBER OPTIC CABLES.



ITS-8

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311 South Wacker Drive, Suite 2400 Chicago, IL 60606 phone: 312.277.8800 fax: 312.277.8800 IDPR LICENSE NO. 184.002873 web: www.SpaanTech.com

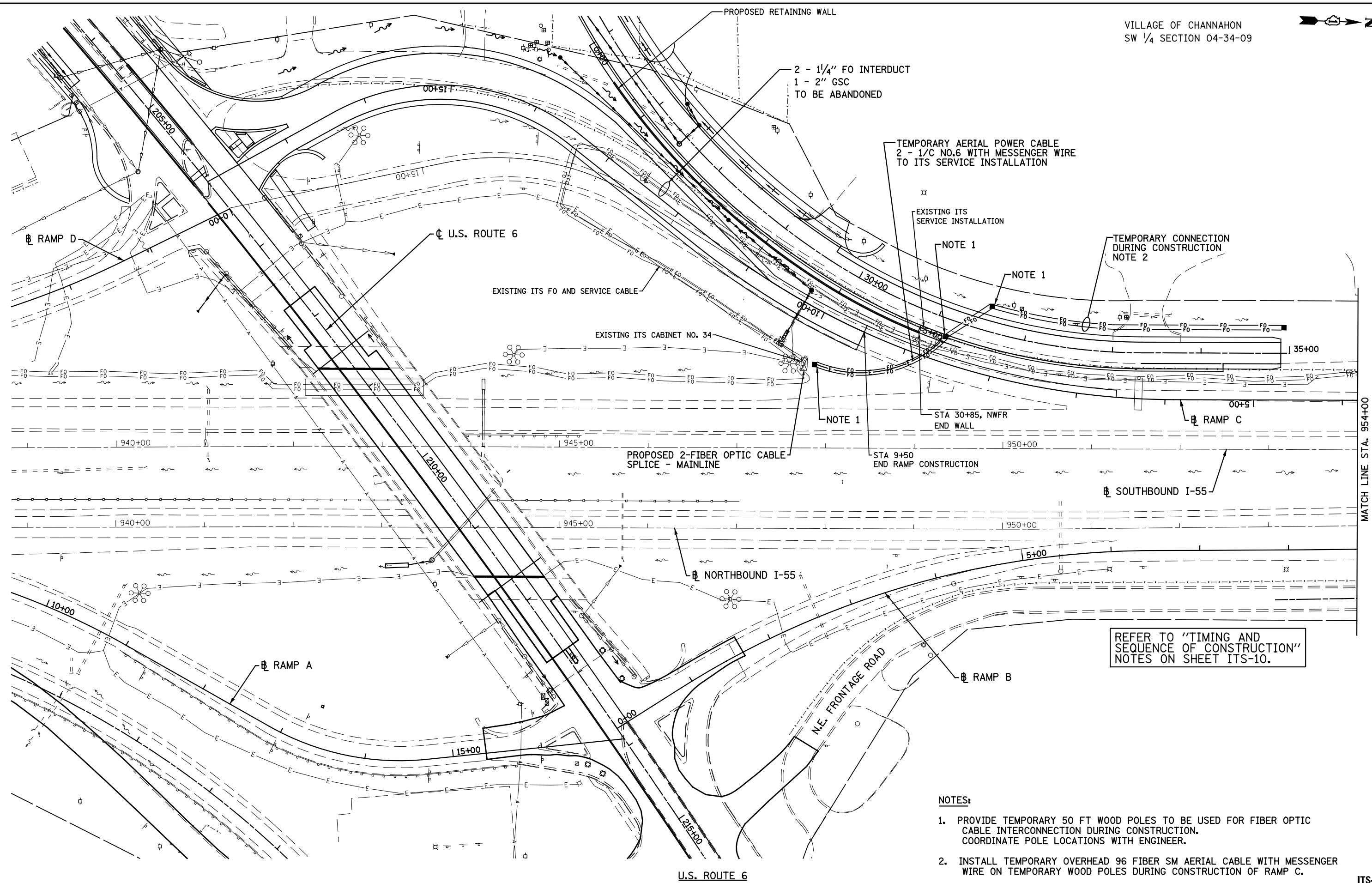
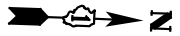
DESIGNED	- YK	REVISED	-
DRAWN	- RC	REVISED	-
CHECKED	- IB	REVISED	-
DATE	- JANUARY 15, 2016	REVISED	-

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**FIBER OPTIC CABLE REPLACEMENT
I-55 AT US 6**

SCALE: 1" = 50' SHEET NO. 8 OF 17 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	2014-065-R	WILL	188	109
CONTRACT NO. 62A00				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



NOTES:

1. PROVIDE TEMPORARY 50 FT WOOD POLES TO BE USED FOR FIBER OPTIC CABLE INTERCONNECTION DURING CONSTRUCTION. COORDINATE POLE LOCATIONS WITH ENGINEER.
2. INSTALL TEMPORARY OVERHEAD 96 FIBER SM AERIAL CABLE WITH MESSENGER WIRE ON TEMPORARY WOOD POLES DURING CONSTRUCTION OF RAMP C.

CR CHRISTIAN-ROGE & ASSOCIATES, INC.
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CHECKED - IB	REVISED -
DATE - JANUARY 15, 2016	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**FIBER OPTIC CABLE TEMPORARY ROUTING
I-55 AT US 6**

SCALE: 1" = 50' SHEET NO. 9 OF 17 SHEETS STA. TO STA.

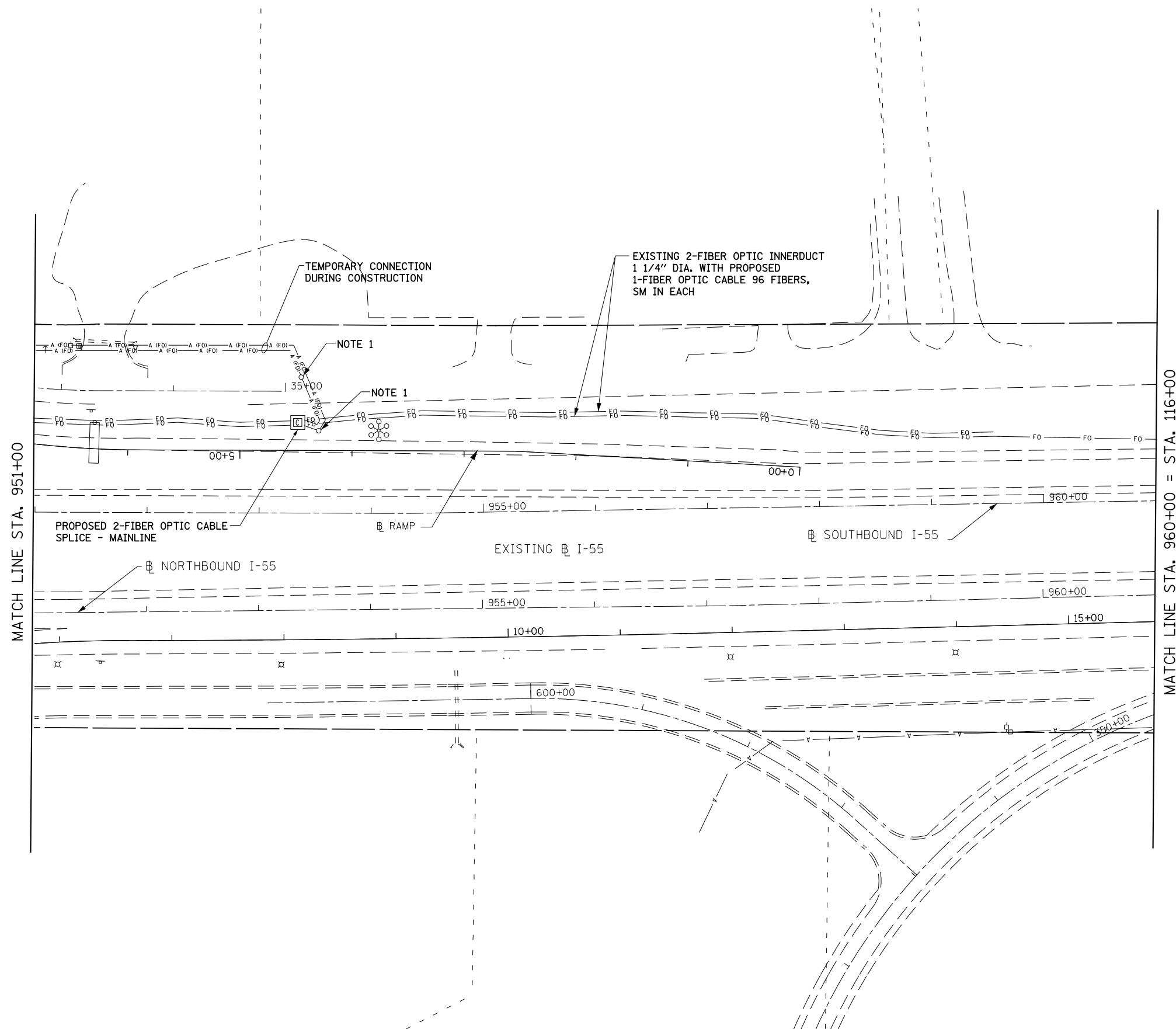
F.A.I. RTE. 55	SECTION 2014-065-R	COUNTY WILL	TOTAL SHEETS 188	SHEET NO. 110
CONTRACT NO. 62A00				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

TIMING AND SEQUENCE OF CONSTRUCTION
FOR FIBER OPTIC TEMPORARY AND PERMANENT CABLE INSTALLATION:

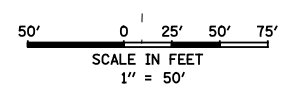
1. THERE ARE TWO FIBER OPTIC (FO) CABLES ALONG I-55. THE ITS SYSTEM MUST BE KEPT FUNCTIONAL AND OPERATIONAL AT ALL TIMES.
2. CABLE REPLACEMENT: THE FIBER OPTIC CABLES SHALL BE SPLICED TO THE MAINLINE CABLES ONE AT A TIME. AFTER THE CABLE HAS BEEN TESTED AND IS OPERATIONAL, CONTRACTOR CAN COMMENCE WORK ON THE OTHER CABLE. THIS APPLIES TO BOTH THE TEMPORARY AND PERMANENT CABLES.
3. THE TEMPORARY CABLES SHALL BE OPERATIONAL AS SOON AS POSSIBLE SO THAT THE RETAINING WALL CONSTRUCTION IS NOT DELAYED.
4. ALL REPLACEMENT FIBER OPTIC CABLE SHALL BE OPERATIONAL PRIOR TO OCTOBER 31, 2016.
5. THE EXISTING INNERDUCT SHALL BE TESTED AND CLEANED PRIOR TO THE INSTALLATION OF THE FO CABLE. ANY INNERDUCT THAT NEEDS TO BE REPLACED SHALL BE PAID FOR AS "FIBER OPTIC INNERDUCT, 1 1/4" DIA." THE COST TESTING AND CLEANING THE INNERDUCT SHALL BE INCLUDED IN THE UNIT COST FOR REMOVAL OF FIBER OPTIC CABLE.

DATE	BY	SURVEYED	PLOTTED	TEMPERATURE	AREAS CHECKED
NO.					

DATE	BY	SURVEYED	PLOTTED	TEMPERATURE	AREAS CHECKED
NO.					



- NOTES:
1. PROVIDE TEMPORARY 50 FT WOOD POLES TO BE USED FOR FIBER OPTIC CABLE INTERCONNECTION DURING CONSTRUCTION.
 2. INSTALL TEMPORARY OVERHEAD 96 FIBER SM AERIAL CABLE WITH MESSENGER WIRE ON TEMPORARY WOOD POLES DURING CONSTRUCTION OF RAMP C.



ITS-10

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CHECKED - IB	REVISED -
DATE - JANUARY 15, 2016	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**FIBER OPTIC CABLE TEMPORARY ROUTING
I-55 AT US 6**

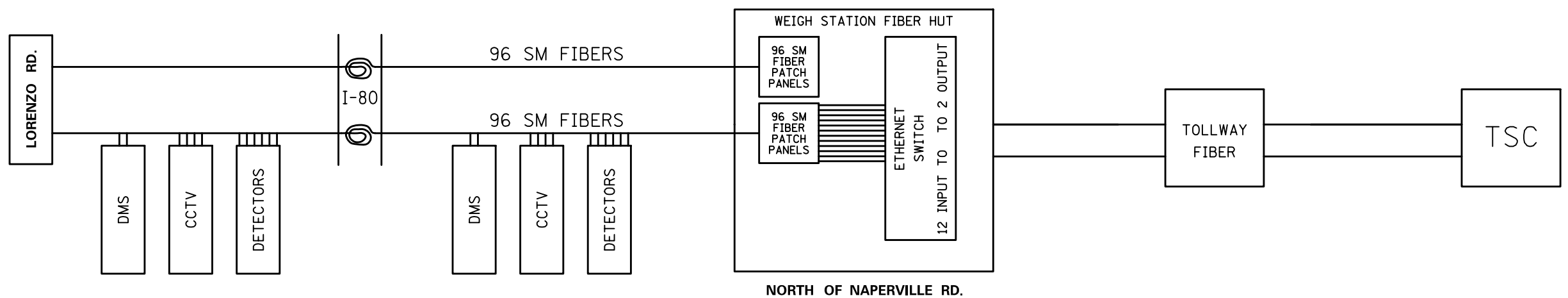
SCALE: 1" = 50' SHEET NO. 10 OF 17 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	2014-065-R	WILL	188	111
CONTRACT NO. 62A00				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



FINAL SURVEY NO.	SURVEYED	DATE
	PLOTTED	
	TEMPLATE	
	AREAS CHECKED	

ORIGINAL SURVEY NO.	SURVEYED	DATE
	PLOTTED	
	TEMPLATE	
	AREAS CHECKED	

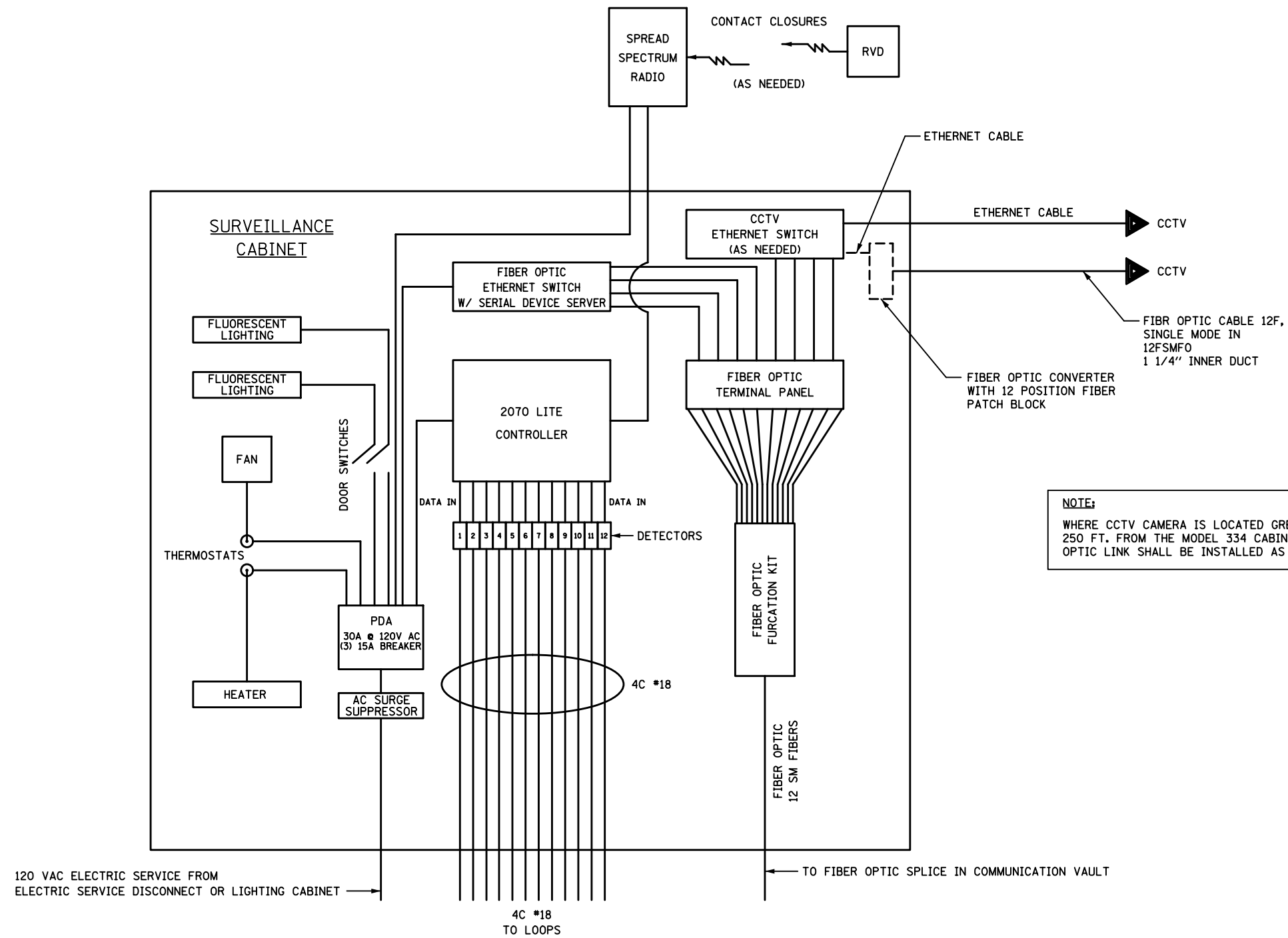


FOR REFERENCE ONLY

ITS-12

DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
NOTE BOOK	
AREAS CHECKED	
NO.	

DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
NOTE BOOK	
AREAS CHECKED	
NO.	



NOTE:
WHERE CCTV CAMERA IS LOCATED GREATER THAN 250 FT. FROM THE MODEL 334 CABINET, A FIBER OPTIC LINK SHALL BE INSTALLED AS SPECIFIED.

12 LOOP COUNT, OCCS, SPEED, CLASSIFICATION
DETECTOR SYSTEM SINGLE LINE DIAGRAM

FOR REFERENCE ONLY

ITS-13

DESIGNED - YK	REVISED -
DRAWN - RC	REVISED -
CHECKED - IB	REVISED -
DATE - DECEMBER 17, 2015	REVISED -

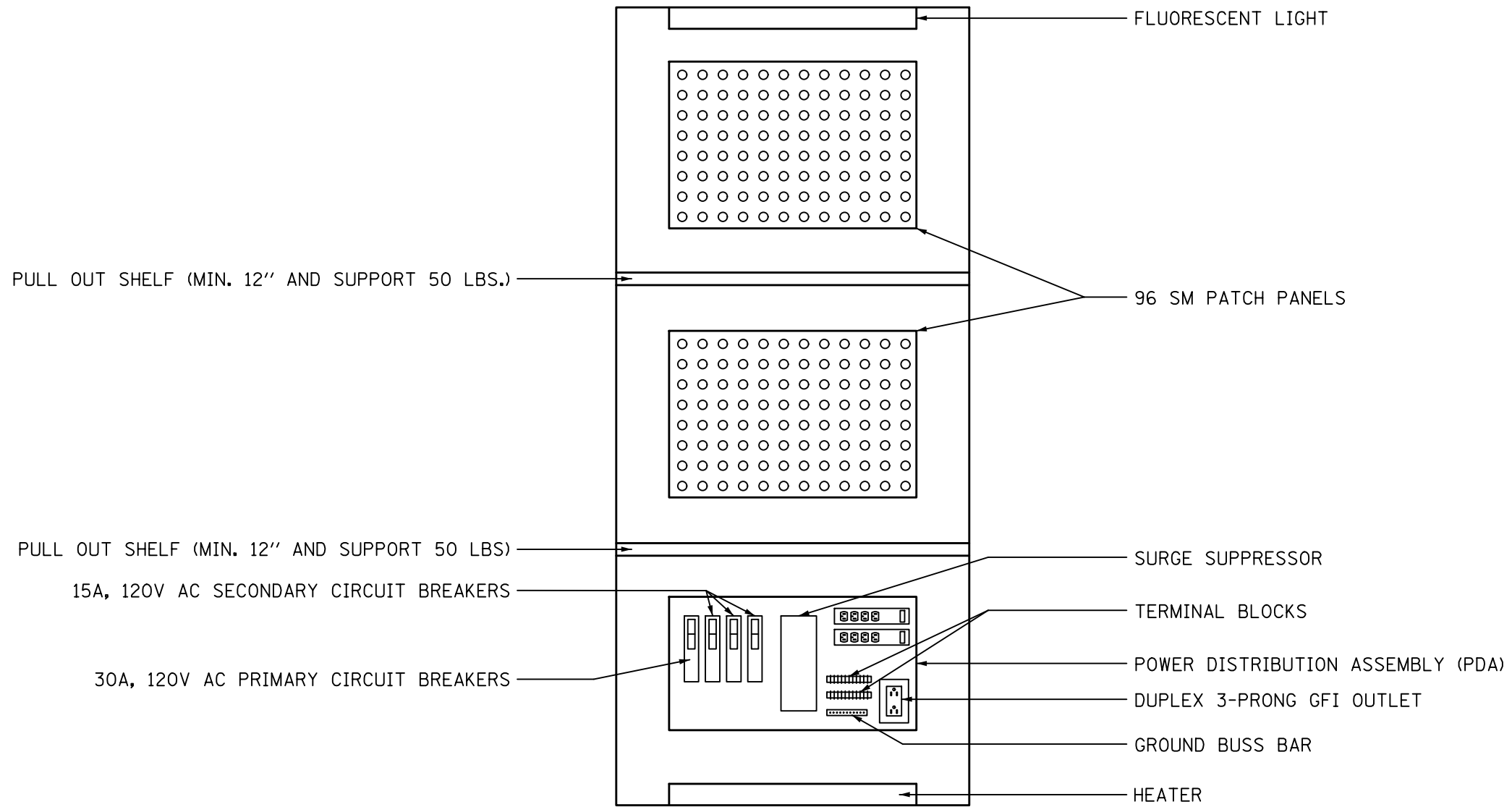
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CABINET MODEL 334 WIRING DETAILS	
SCALE: NONE	SHEET NO. 12 OF 17 SHEETS
STA.	TO STA.

F.A.T. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	2014-065-R	WILL	188	113
CONTRACT NO. 62A00				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
NO. BOOK	
AREAS CHECKED	

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SURVEYED	
PLOTTED	
TEMPLATE	
NO. BOOK	
AREAS CHECKED	

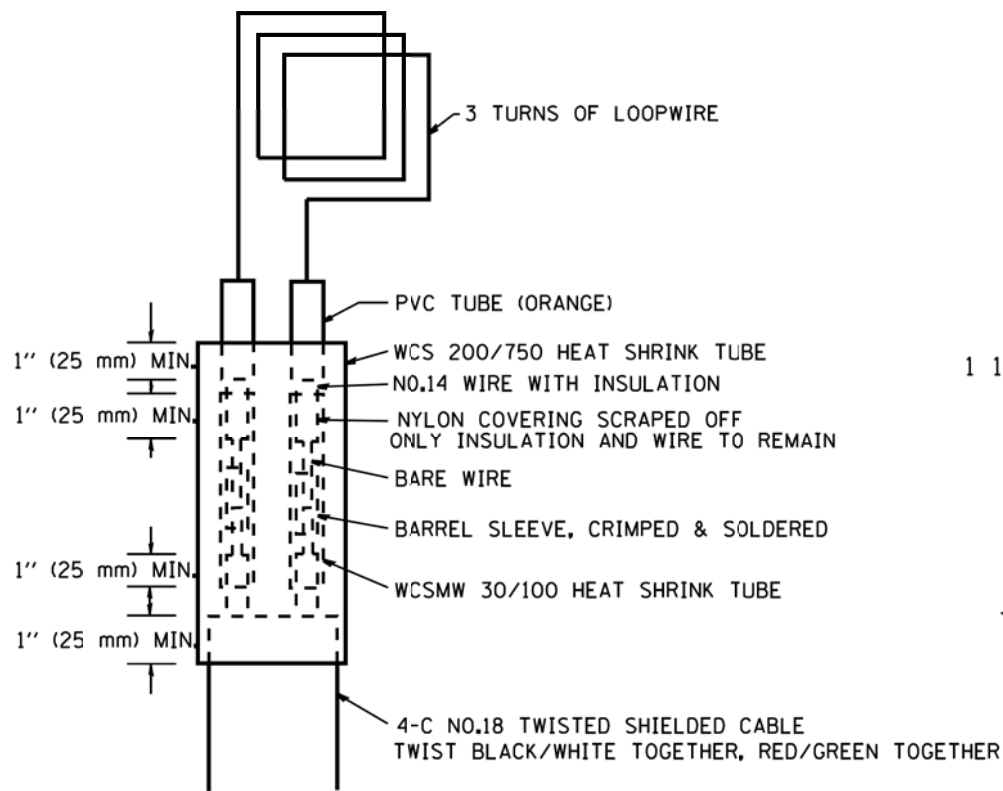


TYPE 334 CABINET

FOR REFERENCE ONLY

ITS-14

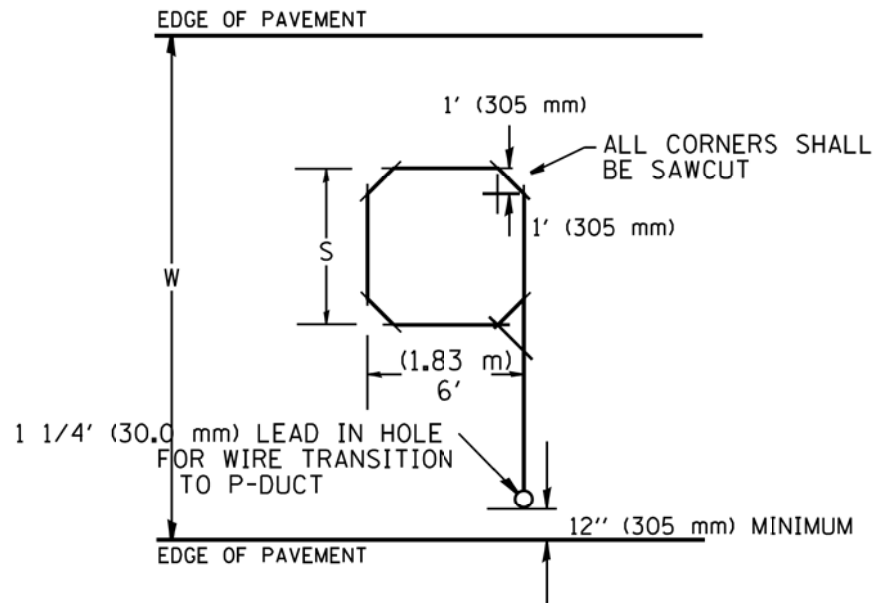
DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
NOTE BOOK	
AREAS CHECKED	
NO.	



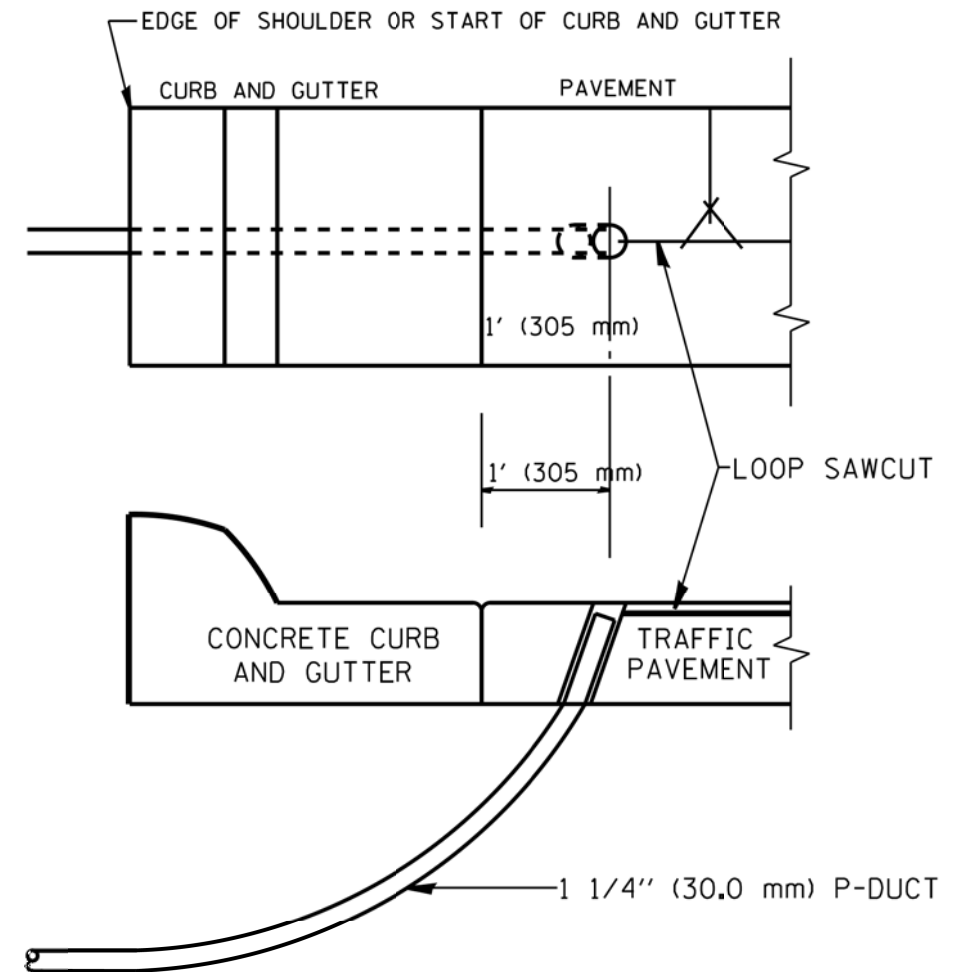
MINIMUM 1" (25 mm) HEAT SHRINK TUBING OVERLAP ON WIRE, PVC & SHIELDED CABLE TO FORM WATER TIGHT SEAL

LOOP SPLICING REQUIREMENTS

WIDTH (W)	WIDTH (S)
12' (3.7 m)	8' (2.5 m)
13' (4.0 m)	9' (2.8 m)
14' (4.3 m)	10' (3.1 m)
15' (4.6 m)	11' (3.4 m)
16' (4.9 m)	12' (3.7 m)
17' (5.2 m)	13' (4.0 m)
18' (5.5 m)	14' (4.3 m)
19' (5.8 m)	15' (4.6 m)
20' (6.1 m)	18' (4.9 m)
21' (6.4 m)	17' (5.2 m)
22' (6.7 m)	18' (5.5 m)
23' (7.0 m)	19' (5.8 m)
24' (7.3 m)	20' (6.1 m)
25' (7.6 m)	21' (6.4 m)



TYPICAL "S" FT. BY 6' (1.83 m) INDUCTION LOOP SAWCUT LAYOUT FOR RAMPS



CURB AND GUTTER LOOP LEAD-IN TRANSITION DETAIL

NOTES

1. EACH LOOP SHALL BE SPLICED TO A 4-C NO.18 TWISTED SHIELDED LEAD IN WHEN 150' (45 m) OR MORE FROM CABINET.
2. LOOPS SHALL BE SPLICED IN HANDHOLES ONLY, OTHERWISE WRITTEN PERMISSION SHALL BE OBTAINED FROM TSC ENGINEER.
3. LOOPS SHALL NOT BE SPLICED IN SERIES.
4. EACH LOOP LEAD IN SHALL BE IDENTIFIED AND PERMANENTLY COLOR CODED IN THE COREHOLE, HANDHOLE & CABINETS THRU WHICH THEY ENTER OR PASS AND TAGGED WITH THE CORRECT NOMENCLATURES.

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ITS-15

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DATE - DECEMBER 17, 2015	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**RECTANGULAR INDUCTION LOOP
TYPICAL**

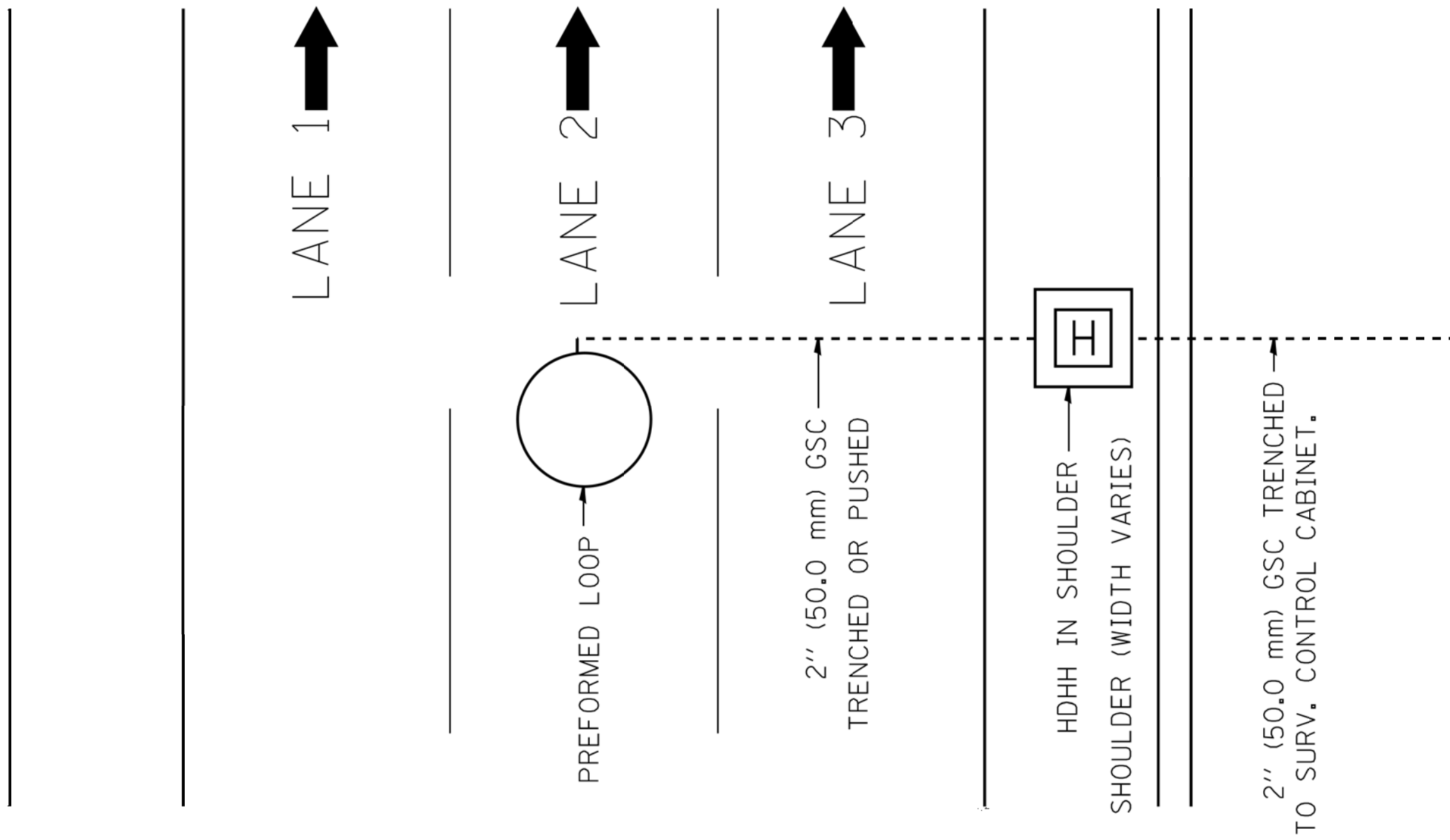
SCALE: NONE SHEET NO. 14 OF 17 SHEETS STA. TO STA.

F.A.T. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	2014-065-R	WILL	188	115
CONTRACT NO. 62A00				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

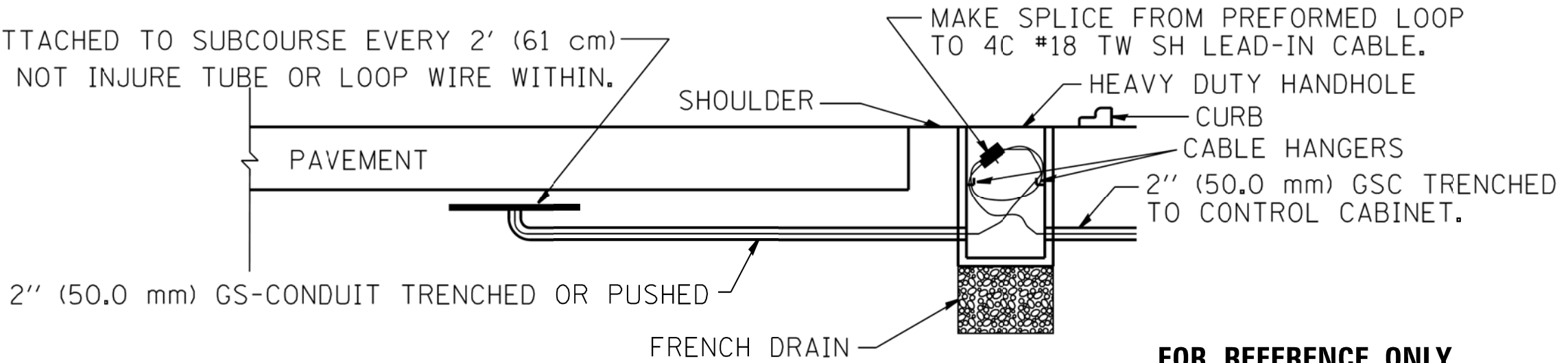
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BY	
SURVEYED	
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TEMPLATE	
NOTE BOOK	
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TEMPLATE	
NOTE BOOK	
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AREAS CHECKED	



PREFORMED LOOP ATTACHED TO SUBCOURSE EVERY 2' (61 cm)
ATTACHMENT SHALL NOT INJURE TUBE OR LOOP WIRE WITHIN.



FOR REFERENCE ONLY

ITS-16

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DRAWN - RC	REVISED -
CHECKED - IB	REVISED -
DATE - DECEMBER 17, 2015	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

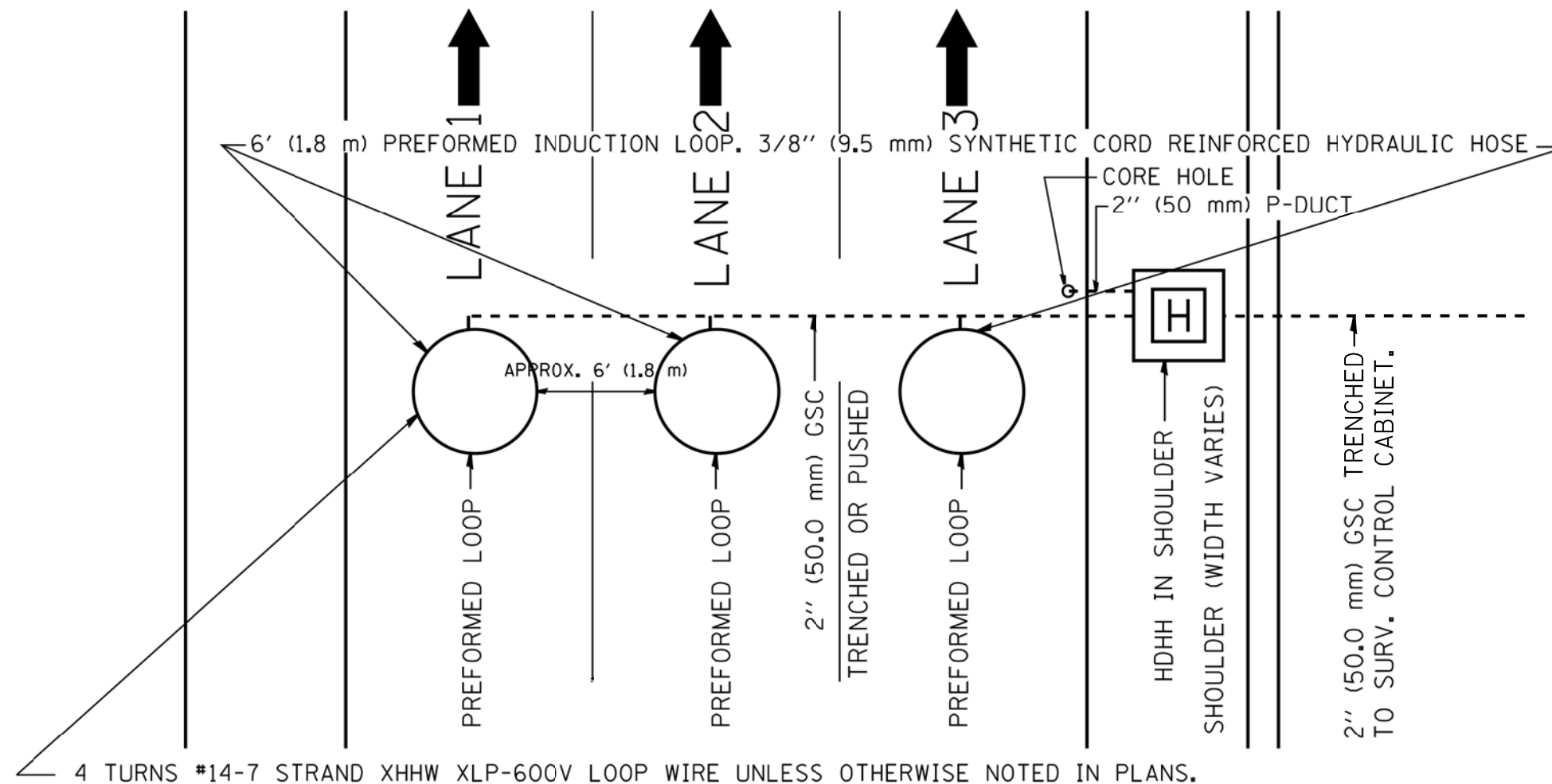
**PREFORMED LOOP
TYPICAL INSTALLATION
NON-BRIDGE DECK APPLICATION**

SCALE: NONE SHEET NO. 15 OF 17 SHEETS STA. TO STA.

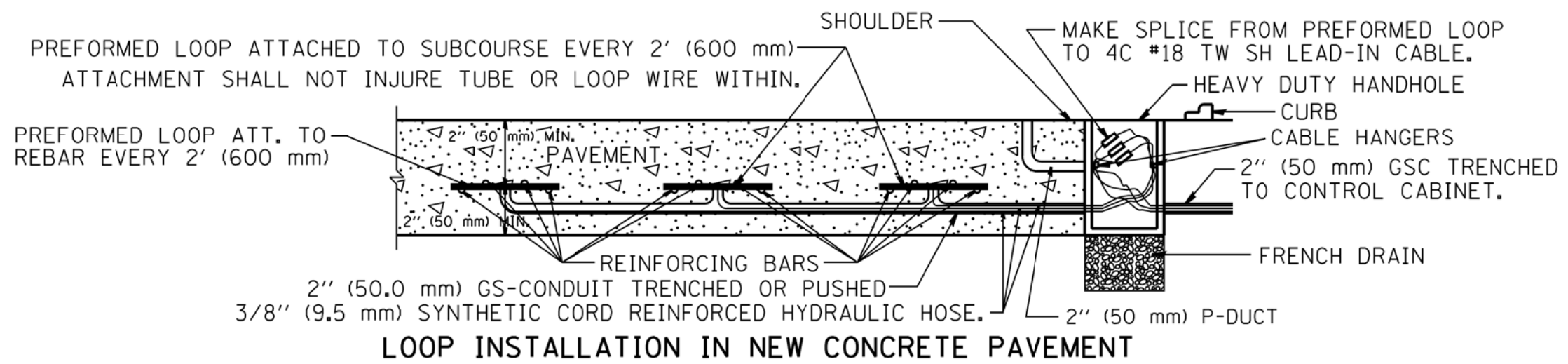
F.A.T. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	2014-065-R	WILL	188	116
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT			CONTRACT NO. 62A00	

DATE	
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TEMPLATE	
NOTE BOOK	
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AREAS CHECKED	

DATE	
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SURVEYED	
PLOTTED	
TEMPLATE	
NOTE BOOK	
NO.	
AREAS CHECKED	



TYPICAL 3 LANE COUNT STATION IN NEW CONCRETE PAVEMENT



LOOP INSTALLATION IN NEW CONCRETE PAVEMENT

NOTES:

- 1.- EACH INDUCTION LOOP SHALL HAVE ITS OWN LEAD-IN CABLE TO CABINET.
- 2.- INDUCTION LOOPS SHALL NOT BE CONNECTED IN SERIES WITH OTHER LOOPS.
- 3.- LOOPS LOCATED OVER 1000' (300 m) FROM CABINET SHALL REQUIRE 5 TURNS OF #14 WIRE.
- 4.- FOR LANES 1 AND 3 WRAP LOOPS CLOCKWISE, FOR LANE 2 WRAP LOOP COUNTER CLOCKWISE.
- 5.- FOR COUNT STATIONS WHICH HAVE MORE THAN 3 LANES, A 3" (75 mm) GSC SHALL BE USED.
- 6.- COREHOLE SHALL BE FILLED WITH DUCT SEAL. JOINT SEALER (OZ GEDNEY DOZSEAL 230 OR BETTER) SHALL BE ADDED AFTER DUCT SEAL.

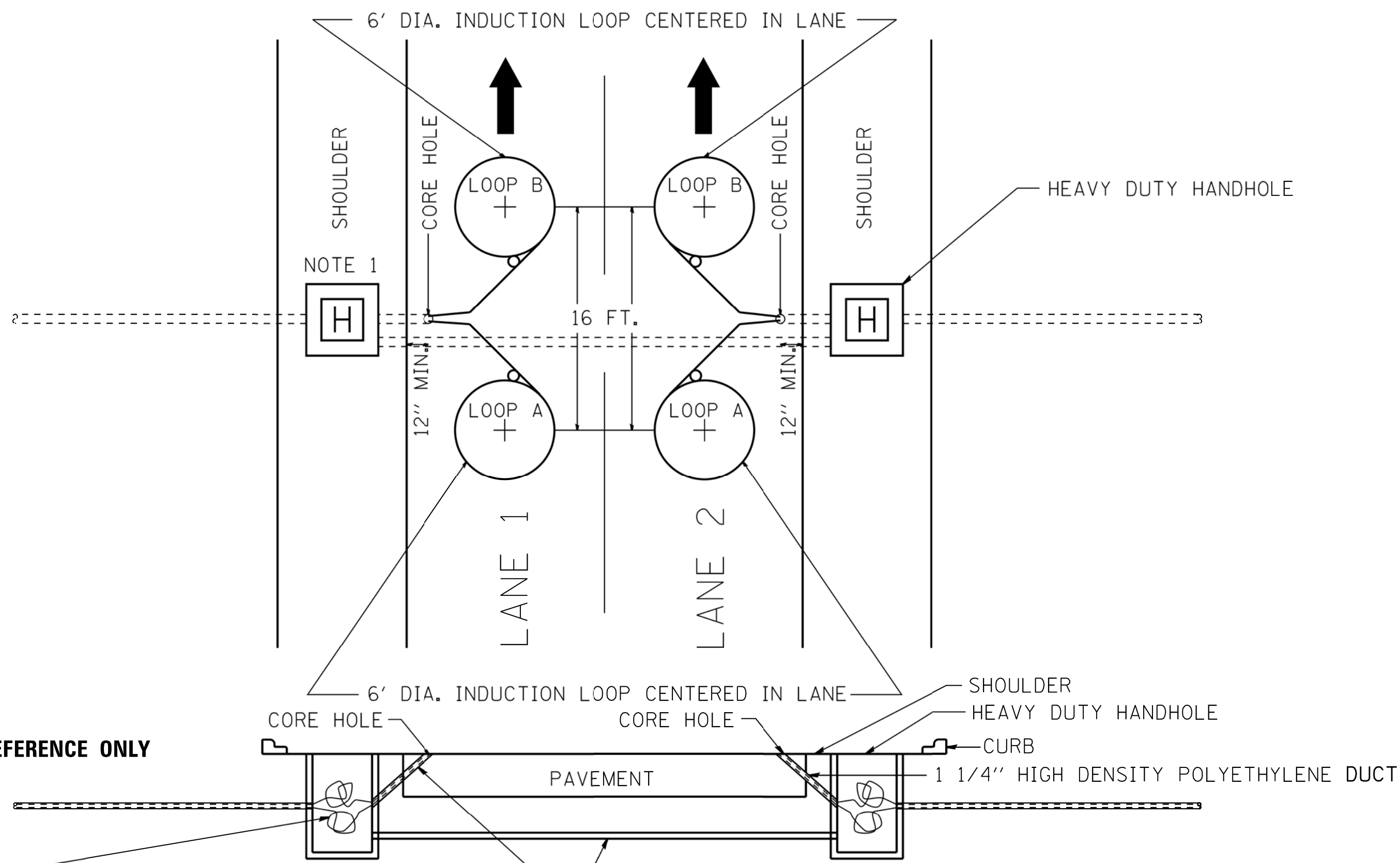
FOR REFERENCE ONLY

ITS-17

 CHRISTIAN-ROGE & ASSOCIATES, INC. ENGINEERS-PLANNERS-SURVEYORS 211 WEST WACKER DRIVE CHICAGO, ILLINOIS 60606 PHONE: (312)372-2023 FAX: (312)372-5274	 SPAAN Tech, Inc. <small>311 South Wacker Drive, Suite 2400 Chicago, IL 60606 phone: 312.277.8800 fax: 312.277.8800 IDPR LICENSE NO. 184.002673 web: www.spaan-tech.com</small>	DESIGNED - YK	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PREFORMED LOOP TYPICAL INSTALLATION NEW CONCRETE PAVEMENT	F.A.T. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN - RC	REVISED -			55	2014-065-R	WILL	188	117
CHECKED - IB	REVISED -	SCALE: NONE SHEET NO. 16 OF 17 SHEETS STA. TO STA.			CONTRACT NO. 62A00		FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT			
DATE - DECEMBER 17, 2015	REVISED -									

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

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



FOR REFERENCE ONLY

LOOP WIRE IF > 150FT. TO CABINET SPLICE
 4C #18 TWISTED SHIELDED TO LOOP WIRE.

2" GALVANIZED STEEL CONDUIT PUSHED OR DIRECTIONAL BORED
 1 1/4" HIGH DENSITY POLYETHYLENE DUCT

NOTE 1: IF HDHH NOT POSSIBLE THEN LANE 1 LOOPS USE SAME CORE HOLE AS LANE 2 LOOPS. IN THE OTHER DIRECTION, LANE 2 LOOPS WILL USE SAME CORE HOLE AS LANE 1 LOOPS.

ITS-18

CHRISTIAN-ROGE & ASSOCIATES, INC.
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CHECKED - IB	REVISED -
DATE - DECEMBER 17, 2015	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

TRAFFIC SURVEILLANCE
 2 LANE SPEED COUNT CLASSIFICATION STATION

SCALE: NONE SHEET NO. 17 OF 17 SHEETS STA. TO STA.

F.A.T. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	2014-065-R	WILL	188	118
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT			CONTRACT NO. 62A00	

LIGHTING DRAWING LIST:

SHEET NO.	TITLE
LT-01	SHEET INDEX, BILL OF MATERIAL, LOCATION OF WORK
LT-02	GENERAL NOTES, LEGEND AND ABBREVIATIONS
LT-03	LIGHTING RELOCATION PLAN
LT-04	EXISTING (CURRENT) LIGHTING PLAN
LT-05	EXISTING (ORIGINAL) LIGHTING PLAN
LT-06	EXISTING (CURRENT) WIRING DIAGRAM - VILLIAGE OF CHANNAHON
LT-07	WIRING DIAGRAM - IDOT

IDOT DISTRICT 1 STANDARD DETAILS:

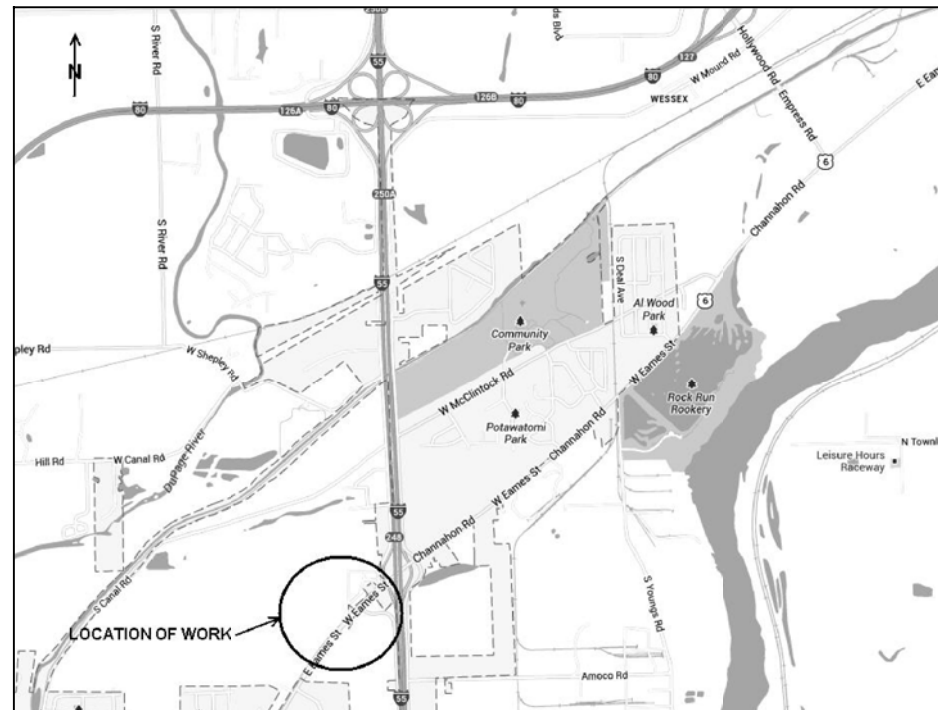
SHEET NO.	IDOT STD. DETAIL NO.	TITLE
LT-08	BE-300	LIGHT POLE FOUNDATION, 30' TO 35' M.H., 11 1/2" BOLT CIRCLE
LT-09	BE-301	LIGHT POLE FOUNDATION, 40' TO 47.5' M.H., 15" BOLT CIRCLE
LT-10	BE-402	ALUMINUM LIGHT POLE 35'-0" MOUNTING HEIGHT
LT-11	BE-400	ALUMINUM LIGHT POLE 47'-6" MOUNTING HEIGHT
LT-12	BE-701	LUMINAIRE SAFETY CABLE ASSEMBLY
LT-13	BE-702	MISC. ELECTRICAL DETAILS, SHEET A

BILL-OF-MATERIAL

DESCRIPTION	UNIT	VILLAGE QUANTITY	IDOT QUANTITY	TOTAL QUANTITY
REMOVAL OF UNDERGROUND CABLE	FOOT	3000		3000
MAINTENANCE OF LIGHTING SYSTEM	CAL MO	9	2	11
UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT		120	120
UNIT DUCT, 600V, 3-1C NO.2, 1/C NO.4 GROUND, (XLP-TYPE USE), 1 1/2" DIA. POLYETHYLENE	FOOT	1200	200	1400
LUMINAIRE, SODIUM VAPOR, HORIZONTAL MOUNT, 400 WATT	EACH		2	2
LIGHT POLE FOUNDATION, 24" DIAMETER	FOOT	45 50	16.5 20	61.5 70
BREAKAWAY DEVICE, TRANSFORMER BASE, 11.5 INCH BOLT CIRCLE	EACH	5		5
BREAKAWAY DEVICE, TRANSFORMER BASE, 15 INCH BOLT CIRCLE	EACH		2	2
LIGHT POLE, ALUMINUM, 35 FT. M.H., 6 FT. MAST ARM	EACH	5		5
LIGHT POLE, ALUMINUM, 47.5 FT. M.H., 15 FT. MAST ARM	EACH		2	2
REMOVAL OF LIGHTING UNIT, SALVAGE	EACH	5		5
REMOVAL OF POLE FOUNDATION	EACH	5		5

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

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

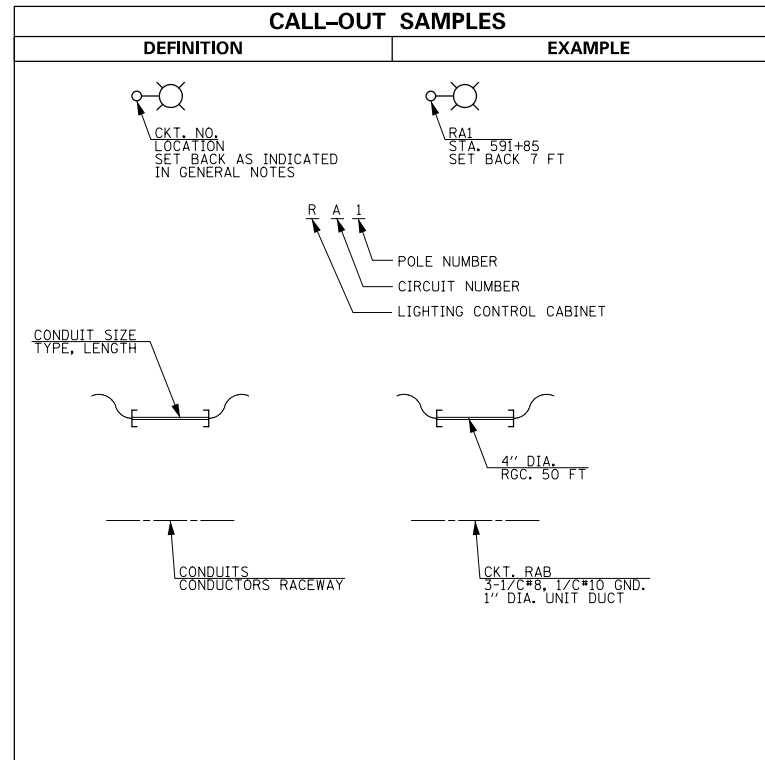


LOCATION OF WORK

CHRISTIAN-ROGE & ASSOCIATES, INC. ENGINEERS-PLANNERS-SURVEYORS 211 WEST WACKER DRIVE CHICAGO, ILLINOIS 60606 PHONE: (312)372-2023 FAX: (312)372-5274	SPAAN Tech, Inc. <small>311 South Wacker Drive, Suite 2400 Chicago, IL 60606 phone: 312.277.8804 fax: 312.277.8809 IDPR LICENSE NO. 184.002873 web: www.spaan-tech.com</small>	DESIGNED - YK	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SHEET INDEX, BILL OF MATERIALS, AND LOCATION OF WORK U.S. 6 WEST OF I-55			F.A.I. RTE. 55	SECTION 2014-065-R	COUNTY WILL	TOTAL SHEETS 184	SHEET NO. 119
		DRAWN - RC	REVISED -		SCALE: NONE SHEET NO. 1 OF 16 SHEETS STA. XXX+XX TO STA. XXX+XX			CONTRACT NO. 62A00				
CHECKED - IB	REVISED -											
DATE - JANUARY 15, 2016	REVISED -											

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

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



IDOT LIGHTING LEGEND:

- EXISTING LIGHTING UNIT TO REMAIN
- EXISTING LIGHTING UNIT TO BE REMOVED AND RETURNED TO CHANNAHON (SEE NOTE 11)
- PROPOSED IDOT LIGHTING UNIT WITH 47.5' POLE, 15' MAST ARM AND NEW 400W HPS LUMINAIRE
- PROPOSED VILLAGE LIGHTING UNIT WITH 35' POLE, 6' MAST ARM AND RELOCATED 250W LUMINAIRE FROM EXISTING 35' POLES BEING REMOVED
- PROPOSED UNIT DUCT IN TRENCH, 1 1/2\"/>
- EXISTING UNIT DUCT IN TRENCH TO REMAIN
- EXISTING UNIT DUCT IN TRENCH TO BE REMOVED
- PROPOSED 4\"/>
- PROPOSED GROUND ROD, COPPER-CLAD STEEL, 5/8\"/>

ABBREVIATIONS:

- A AMPERS
- AC ALTERNATING CURRENT
- C CONDUIT
- CKT CIRCUIT
- COMED COMMONWEALTH EDISON
- DIA DIAMETER
- E EXISTING LIGHTING UNIT TO REMAIN
- EPR ETHYLENE PROPOLYENE RUBBER
- FT FEET
- GND GROUND
- HPS HIGH PRESSURE SODIUM
- IDOT ILLINOIS DEPARTMENT OF TRANSPORTATION
- IN INCHES
- LT LEFT
- MA MAST ARM
- MH MOUNTING HEIGHT
- P PROPOSED
- PH PHASE
- PVC POLYVINYL CHLORIDE
- RGSC RIGID GALVANIZED STEEL CONDUIT
- RT RIGHT
- STA STATION
- TYP TYPICAL
- UD UNIT DUCT
- UNO UNLESS NOTED OTHERWISE
- V VOLTS
- W WATTS
- W WIRES

GENERAL NOTES

1. LIGHT POLE SET BACKS ARE MEASURED FROM FACE OF CURB TO CENTER OF POLE OR, WHERE THERE IS NO CURB, FROM EDGE OF TRAVELED ROADWAY TO CENTER OF POLE.
2. ALL EXISTING POLES, ARMS, LUMINAIRES, LUMINAIRE SAFETY CABLES, POLE WIRING, FUSE ASSEMBLIES AND BREAKAWAY DEVICES TO BE REMOVED SHALL BE RELOCATED AS SHOWN ON THE PLANS.
3. SPLICING OF CONDUCTORS WEATHER TIGHT JUNCTION BOXES ONLY. SPLICES BELOW GRADE WILL NOT BE PERMITTED.
4. ALL WORK SHALL CONFORM TO THE LATEST IDOT, IDOT DISTRICT 1 STANDARDS, SPECIAL PROVISIONS AND SUPPLEMENTAL SPECIFICATIONS, AND THE NATIONAL ELECTRICAL SAFETY CODE.
5. THE CONTRACTOR SHALL VERIFY LOCATIONS OF ALL BURIED UTILITIES BEFORE STARTING WORK.
6. THE CONTRACTOR MUST MAINTAIN SAFE EQUIPMENT AND WORKING CLEARANCES FROM THE EXISTING OVERHEAD ELECTRICAL LINES. THE CONTRACTOR SHALL PLAN THE WORK CONSIDERING LINES TO BE IN SERVICE AND ENERGIZED THROUGHOUT THE CONSTRUCTION PERIOD.
7. ALL NEW UNIT DUCTS AND UNDERGROUND CONDUITS SHALL BE PLACED A MINIMUM OR 30\"/>
8. THE CONTRACTOR SHALL REQUEST A FORMAL MAINTENANCE TRANSFER FROM THE VILLAGE OF CHANNAHON BEFORE ANY WORK BEGINS. CONTACT VILLAGE OF CHANNAHON PUBLIC WORKS DEPARTMENT, MR. ED DOLEZAL, PHONE (815) 467-6644.
9. THE CONTRACTOR SHALL CONTACT IDOT DISTRICT 1 FOR ACCESS TO LIGHTING CONTROLLER "R".
10. LUMINAIRES FROM EXISTING 35' VILLAGE POLES THAT ARE BEING REMOVED SHALL BE TRANSFERRED TO THE PROPOSED 35' POLES. COST FOR TRANSFERRING LUMINAIRE SHALL BE INCLUDED IN THE PRICE OF THE NEW 35' POLE.
11. ALL REMOVED 35' POLES SHALL BE SALVAGED AND RETURNED TO THE VILLAGE OF CHANNAHON.

LT-02

CHRISTIAN-ROGE & ASSOCIATES, INC.
ENGINEERS-PLANNERS-SURVEYORS
211 WEST WACKER DRIVE
CHICAGO, ILLINOIS 60606
PHONE: (312)372-2023 FAX: (312)372-5274

SPAAN Tech, Inc.
311 South Wacker Drive, Suite 2400 Chicago, IL 60606
phone: 312.277.8800 fax: 312.277.8808
IDFPR LICENSE NO. 184.0002673 web: www.SpaanTech.com

DESIGNED - YK	REVISED -
DRAWN - RC	REVISED -
CHECKED - IB	REVISED -
DATE - FEBRUARY 17, 2016	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

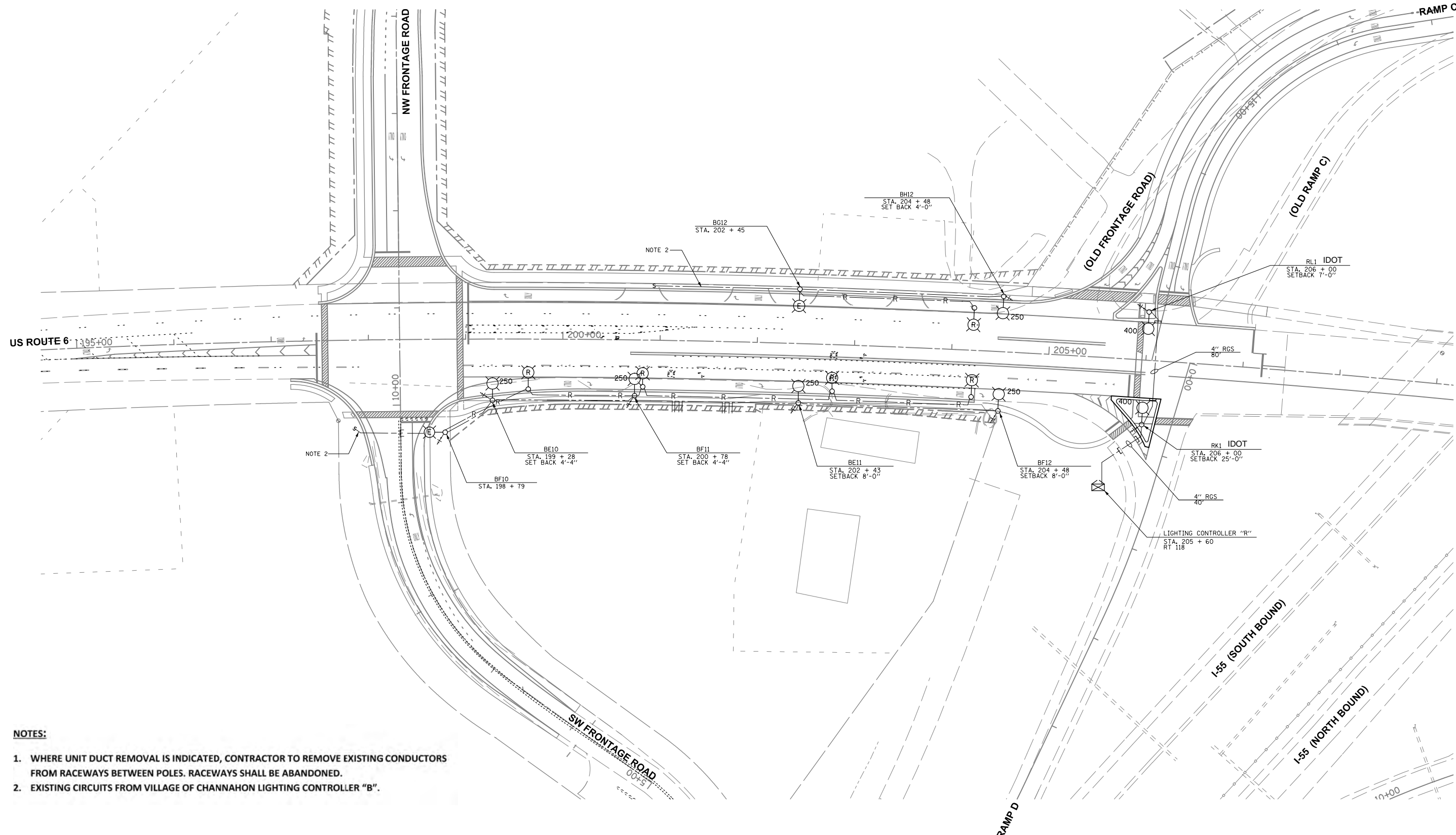
**GENERAL NOTES, LEGEND AND ABBREVIATIONS
U.S. 6 WEST OF I-55**

SCALE: NONE SHEET NO. 2 OF 16 SHEETS STA. XXX+XX TO STA. XXX+XX

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	2014-065-R	WILL	184	120
CONTRACT NO. 62A00			FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT	

DATE	BY	SURVEYED	PLOTTED	TEMPLATE	AREAS CHECKED
		NO.			

DATE	BY	SURVEYED	PLOTTED	TEMPLATE	AREAS CHECKED
		NO.			



NOTES:

- WHERE UNIT DUCT REMOVAL IS INDICATED, CONTRACTOR TO REMOVE EXISTING CONDUCTORS FROM RACEWAYS BETWEEN POLES. RACEWAYS SHALL BE ABANDONED.
- EXISTING CIRCUITS FROM VILLAGE OF CHANNAHON LIGHTING CONTROLLER "B".

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 311 South Wacker Drive, Suite 2400 Chicago, IL 60606
 phone: 312.277.8800 fax: 312.277.8888
 IDPR LICENSE NO. 184.002673 web: www.spaanTech.com

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DATE - MARCH 11, 2016	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

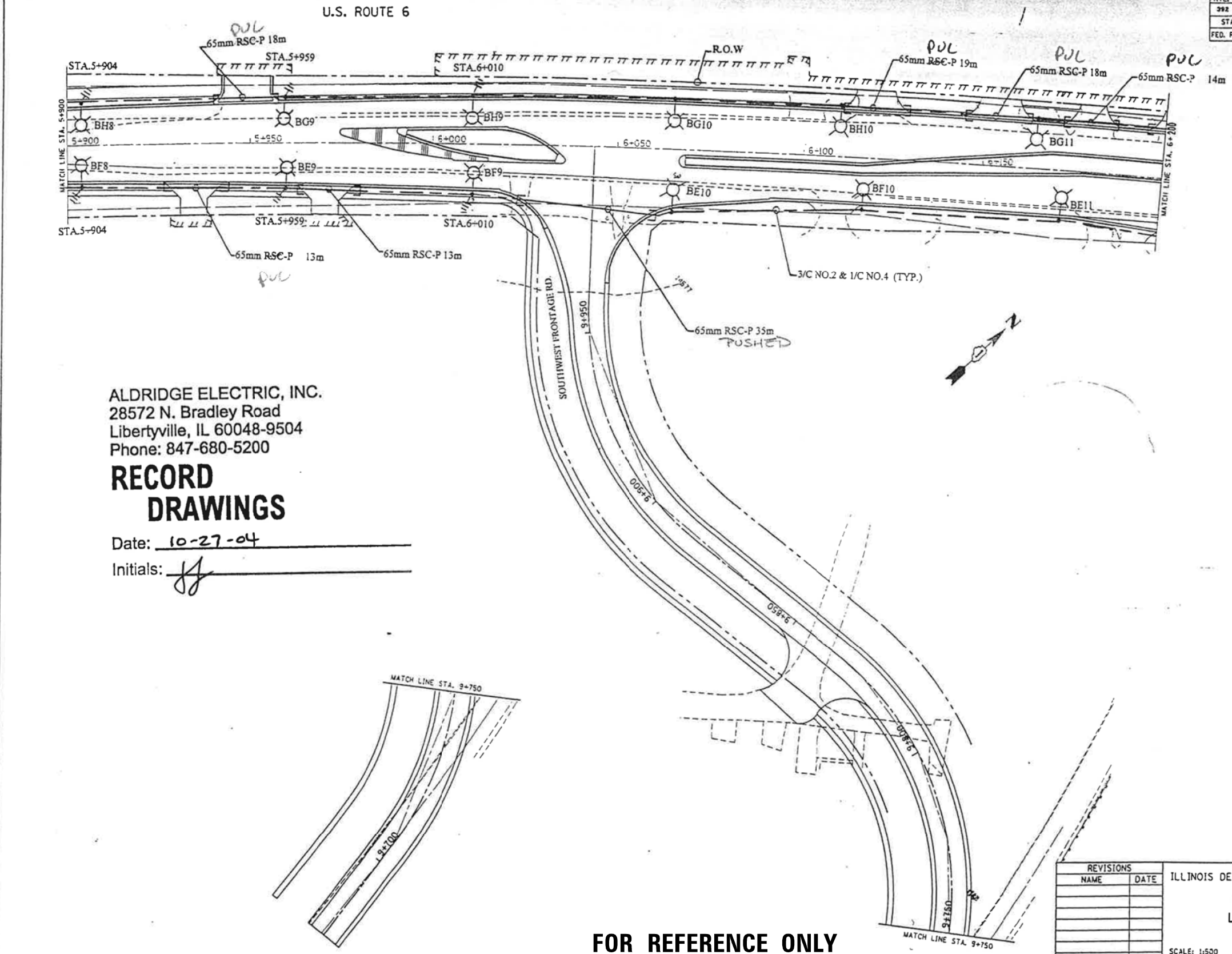
**LIGHTING RELOCATION PLAN
 U.S. 6 WEST OF I-55**

SCALE: 1"=50' SHEET NO. 5 OF 16 SHEETS STA. XXX+00 TO STA. XXX+00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	2014-065-R	WILL	184	121
CONTRACT NO. 62A00				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

C:\projects\122388\122388.dgn PPI2 LV:2.6.15.17.25.27-29.35.38-48.42.46-48.50.59
 C:\projects\122388\122388.dgn PPI4 LV:2.6.15.17.25.27-29.35.38-48.42.46-48.50.59

F.A.W. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
392	*	WILL	305	215
STA. TO STA.		FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT		
* (EX. JX & 1-D-1) WRS-1				



ALDRIDGE ELECTRIC, INC.
 28572 N. Bradley Road
 Libertyville, IL 60048-9504
 Phone: 847-680-5200

RECORD DRAWINGS

Date: 10-27-04
 Initials: JS

REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION	
NAME	DATE	U.S. ROUTE 6 LIGHTING PLAN	
		SCALE: 1:500	
		DATE: 2/28/02	
		DRAWN BY SM	
		CHECKED BY CRB	

FOR REFERENCE ONLY

DATE	
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AREAS CHECKED	

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 USER:

CHRISTIAN-ROGE & ASSOCIATES, INC.
 ENGINEERS-PLANNERS-SURVEYORS
 211 WEST WACKER DRIVE
 CHICAGO, ILLINOIS 60606
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DRAWN - RC	REVISED -
CHECKED - IB	REVISED -
DATE - NOVEMBER 12, 2015	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

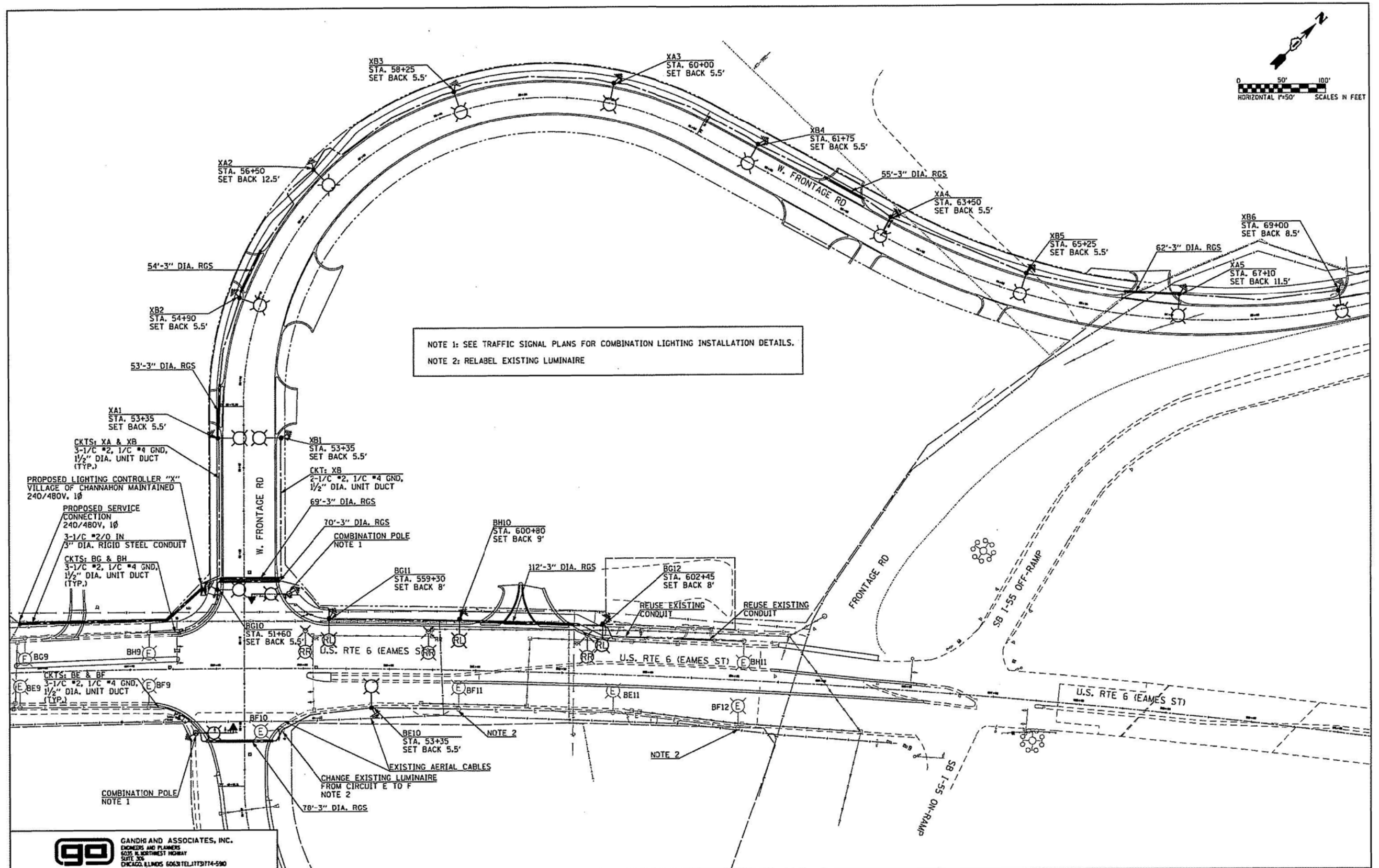
EXISTING LIGHTING PLAN	
SCALE: NONE	SHEET NO. 7 OF 16 SHEETS
STA. XXX+XX	TO STA. XXX+XX

F.A.W. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	2014-065-R	WILL	184	122
CONTRACT NO. 62A00				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

LT-04

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NOTE 1: SEE TRAFFIC SIGNAL PLANS FOR COMBINATION LIGHTING INSTALLATION DETAILS.
 NOTE 2: RELABEL EXISTING LUMINAIRE

GO GANDHI AND ASSOCIATES, INC.
 ENGINEERS AND PLANNERS
 6215 N. KENTWOOD HIGHWAY
 SUITE 300
 CHICAGO, ILLINOIS 60631 TEL: 312/374-5900

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PLOT SCALE = 108.0000 "/> IN.		CHECKED - SM, PKG	REVISED -
PLOT DATE = 2/26/2015		DATE - 2014-02-27	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

U.S. ROUTE 6 AT W. FRONTAGE ROAD
 PROPOSED LIGHTING PLAN

F.A.D. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
392		WILL	10	2
CONTRACT NO.				
ILLINOIS FED. AID PROJECT				

FOR REFERENCE ONLY

LT-05

CR CHRISTIAN-ROGE & ASSOCIATES, INC.
 ENGINEERS-PLANNERS-SURVEYORS
 211 WEST WACKER DRIVE
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 Chicago, IL 60606
 IDPR LICENSE NO. 184-002673 web: www.spaan-tech.com

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CHECKED - IB	REVISED -
DATE - NOVEMBER 12, 2015	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

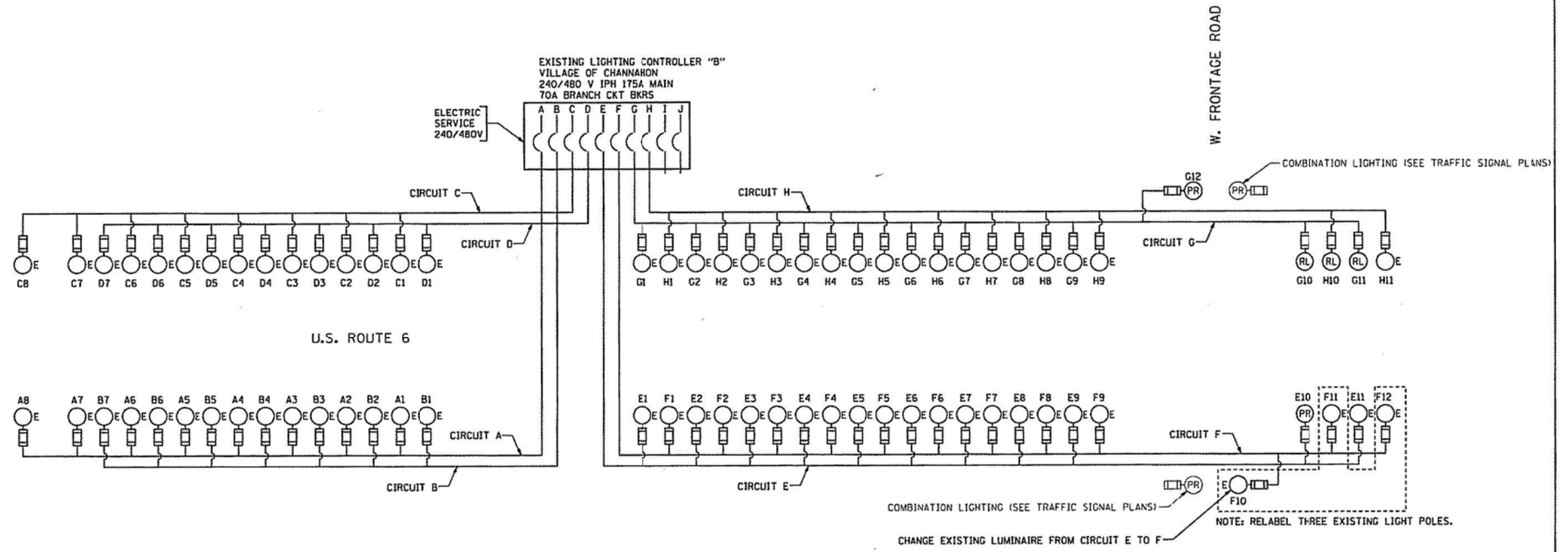
EXISTING LIGHTING PLAN

F.A.D. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	2014-065-R	WILL	104	123
CONTRACT NO. 62A00				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

SCALE: NONE SHEET NO. 7 OF 16 SHEETS STA. XXX+XX TO STA. XXX+XX

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AREAS CHECKED	

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ORIGINAL SURVEY	
SURVEYED	
PLOTTED	
TEMPLATE	
NO. BOOK	
AREAS CHECKED	



LEGEND:

- 5A FUSE
- CIRCUIT BREAKERS
- LUMINAIRE, 250W HPS, EXISTING
- LUMINAIRE, 250W HPS, PROPOSED

GO GANDHI AND ASSOCIATES, INC.
ENGINEERS AND PLANNERS
1035 N. NORTHWEST HIGHWAY
SUITE 306
CHICAGO, ILLINOIS 60639 TEL: 312/774-5900

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	PLOT DATE * 2/26/2015	DATE - 2014-02-27	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

U.S. RTE 6 AT W. FRONTAGE ROAD
SINGLE LINE DIAGRAM LIGHTING CONTROLLER "B"

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
392		WILL	10	3
		CONTRACT NO.		
ILLINOIS FED. AID PROJECT				

SHEET 3 OF 10 SHEETS STA. TO STA.

FOR REFERENCE ONLY

LT-06A

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phone: 312.277.8800 fax: 312.277.8800
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CHECKED - IB	REVISED -
DATE - NOVEMBER 12, 2015	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WIRING DIAGRAM - VILLAGE OF CHANNAHON

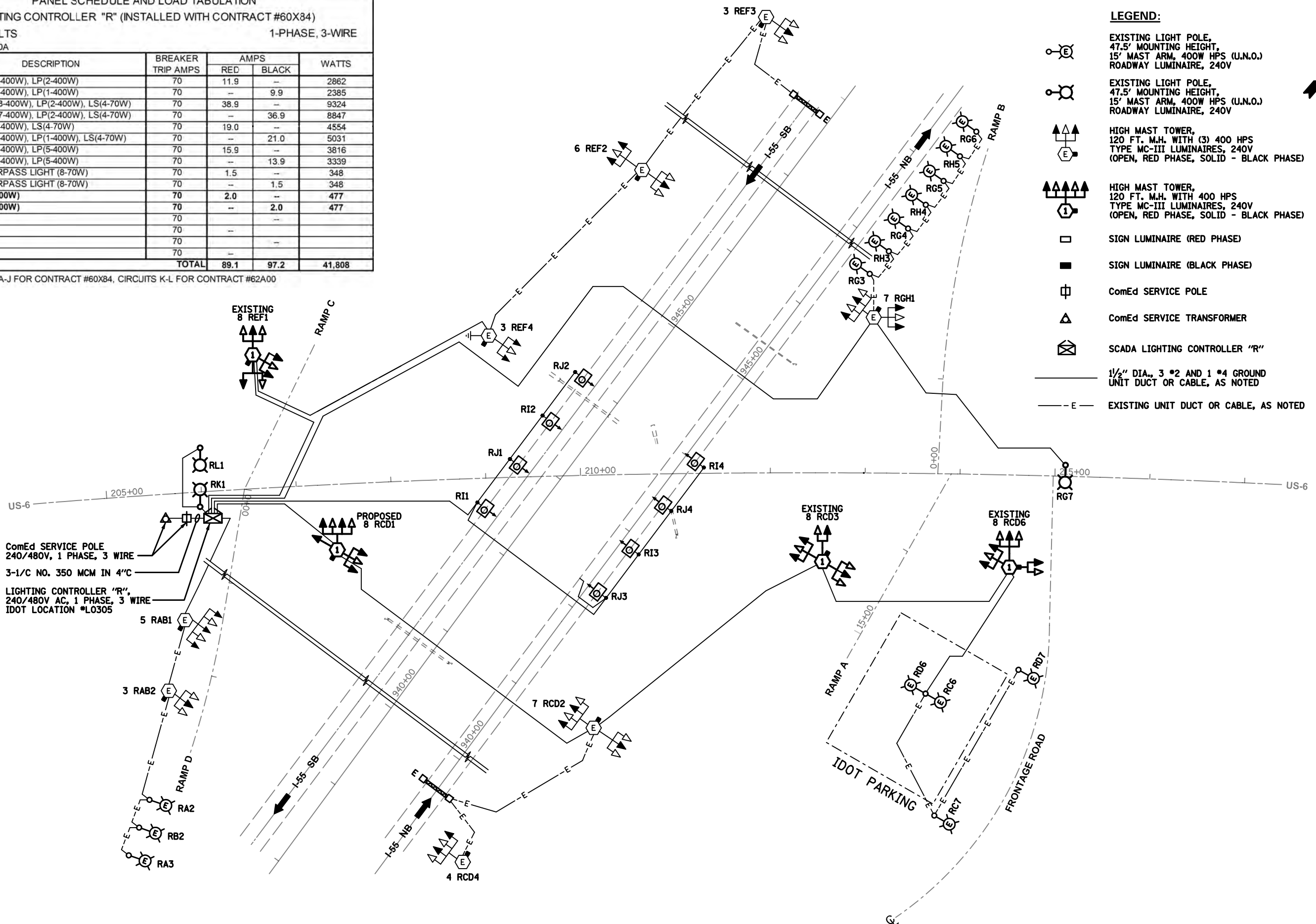
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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	2014-065-R	WILL	104	124
		CONTRACT NO. 62A00		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

PANEL SCHEDULE AND LOAD TABULATION
 LIGHTING CONTROLLER "R" (INSTALLED WITH CONTRACT #60X84)
 240 / 480 VOLTS
 MAIN BREAKER: 200A
 1-PHASE, 3-WIRE

CIRCUIT	DESCRIPTION	BREAKER TRIP AMPS	AMPS		WATTS
			RED	BLACK	
A	HML(4-400W), LP(2-400W)	70	11.9	--	2862
B	HML(4-400W), LP(1-400W)	70	--	9.9	2385
C	HML(18-400W), LP(2-400W), LS(4-70W)	70	38.9	--	9324
D	HML(17-400W), LP(2-400W), LS(4-70W)	70	--	36.9	8847
E	HML(8-400W), LS(4-70W)	70	19.0	--	4554
F	HML(8-400W), LP(1-400W), LS(4-70W)	70	--	21.0	5031
G	HML(4-400W), LP(5-400W)	70	15.9	--	3816
H	HML(5-400W), LP(5-400W)	70	--	13.9	3339
I	UNDERPASS LIGHT (8-70W)	70	1.5	--	348
J	UNDERPASS LIGHT (8-70W)	70	--	1.5	348
K	LP(1-400W)	70	2.0	--	477
L	LP(1-400W)	70	--	2.0	477
M		70	--	--	
N		70	--	--	
O		70	--	--	
P		70	--	--	
TOTAL			89.1	97.2	41,808

NOTE: CIRCUITS A-J FOR CONTRACT #60X84, CIRCUITS K-L FOR CONTRACT #62A00



LEGEND:

- EXISTING LIGHT POLE, 47.5' MOUNTING HEIGHT, 15' MAST ARM, 400W HPS (U.N.O.) ROADWAY LUMINAIRE, 240V
- EXISTING LIGHT POLE, 47.5' MOUNTING HEIGHT, 15' MAST ARM, 400W HPS (U.N.O.) ROADWAY LUMINAIRE, 240V
- HIGH MAST TOWER, 120 FT. M.H. WITH (3) 400 HPS TYPE MC-III LUMINAIRES, 240V (OPEN, RED PHASE, SOLID - BLACK PHASE)
- HIGH MAST TOWER, 120 FT. M.H. WITH 400 HPS TYPE MC-III LUMINAIRES, 240V (OPEN, RED PHASE, SOLID - BLACK PHASE)
- SIGN LUMINAIRE (RED PHASE)
- SIGN LUMINAIRE (BLACK PHASE)
- ComEd SERVICE POLE
- ComEd SERVICE TRANSFORMER
- SCADA LIGHTING CONTROLLER "R"
- 1/2" DIA., 3 #2 AND 1 #4 GROUND UNIT DUCT OR CABLE, AS NOTED
- E - EXISTING UNIT DUCT OR CABLE, AS NOTED

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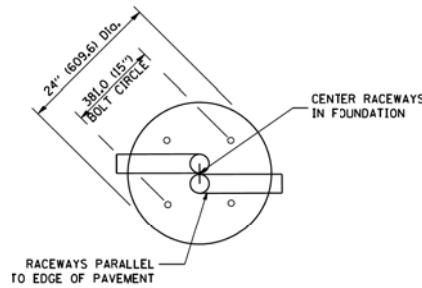
CHRISTIAN-ROGE & ASSOCIATES, INC. ENGINEERS-PLANNERS-SURVEYORS 211 WEST WACKER DRIVE CHICAGO, ILLINOIS 60606 PHONE: (312)372-2023 FAX: (312)372-5274	SPAAN Tech, Inc. 311 South Wacker Drive, Suite 2400 Chicago, IL 60606 IDPR LICENSE NO. 184-002673	DESIGNED - YK	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	WIRING DIAGRAM - IDOT		F.A.T. RTE. 55	SECTION 2014-065-R	COUNTY WILL	TOTAL SHEETS 184	SHEET NO. 125
		DRAWN - RC	REVISED -		SCALE: NONE SHEET NO. 7 OF 16 SHEETS STA. XXX+XX TO STA. XXX+XX		CONTRACT NO. 62A00				
CHECKED - IB	REVISED -	FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT									
DATE - FEBRUARY 17, 2016	REVISED -										

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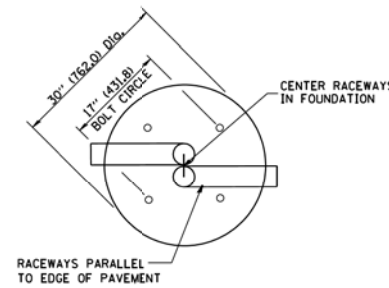
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LIGHT POLE FOUNDATION DEPTH TABLE
40 FT. (12.192 m) TO 47.5 FT. (14.478 m) MOUNTING HEIGHT

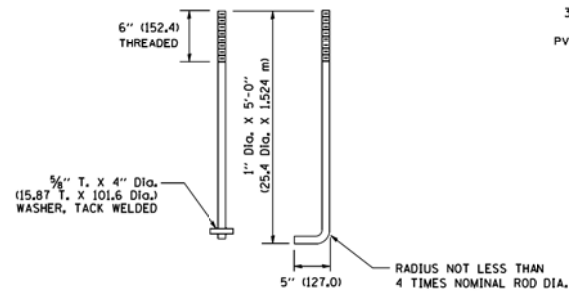
SOIL CONDITIONS	DESIGN DEPTH "D" OF FOUNDATION	
	SINGLE ARM POLE	TWIN ARM POLE
SOFT CLAY Ou = 0.375 TON/SO. FT.	13'-0" (3.96 m)	15'-0" (4.57 m)
MEDIUM CLAY Ou = 0.75 TON/SO. FT.	9'-6" (2.93 m)	10'-9" (3.23 m)
STIFF CLAY Ou = 1.50 TON/SO. FT.	7'-0" (2.13 m)	3'-0" (0.91 m)
LOOSE SAND φ = 34°	9'-0" (2.74 m)	10'-0" (3.05 m)
MEDIUM SAND φ = 37.5°	8'-3" (2.52 m)	3'-0" (0.91 m)
DENSE SAND φ = 40°	7'-9" (2.36 m)	3'-0" (0.91 m)



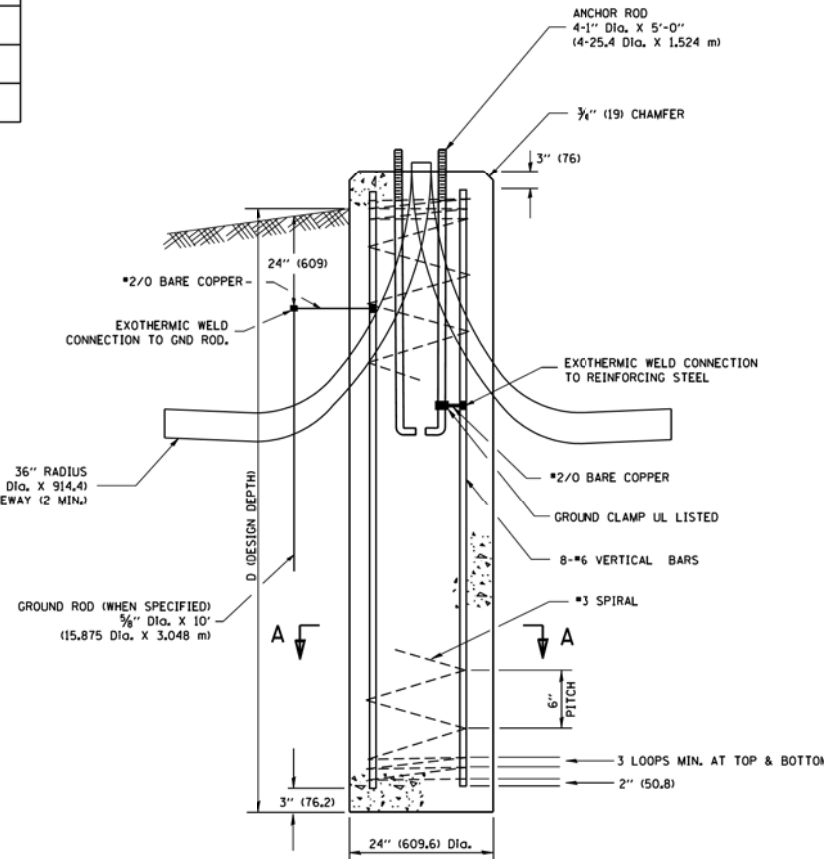
TOP VIEW



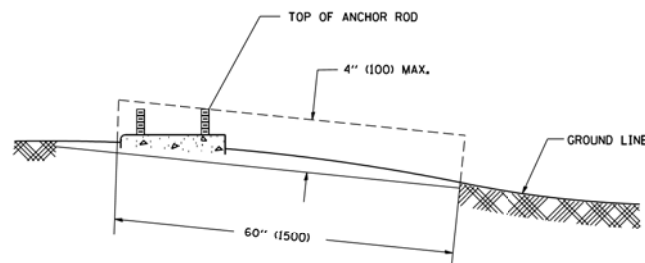
TOP VIEW



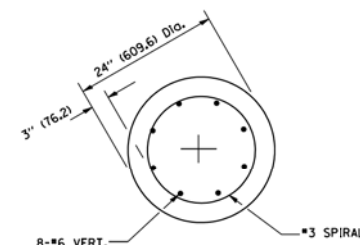
ANCHOR ROD DETAIL



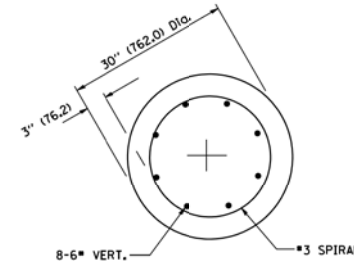
FOUNDATION DETAIL



FOUNDATION EXTENSION DETAIL



SECTION A-A



SECTION A-A

NOTES

- ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.
- THE ANCHOR RODS AND RACEWAYS SHALL BE PROPERLY SECURED IN PLACE BEFORE THE CONCRETE IS PLACED.
- THE FOUNDATION SHALL NOT PROTRUDE MORE THAN 100MM (4 IN.) ABOVE THE FINISHED GRADE WITHIN A 60 IN. (1.5 m) CHORD ACROSS THE FOUNDATION, WITH ANCHOR RODS INCLUDED. IN ACCORDANCE WITH AASHTO GUIDELINES, IF THE FOUNDATION HEIGHT, INCLUDING ANCHOR RODS, EXTENDS BEYOND THESE SPECIFIED LIMITS, THE FOUNDATION SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE. SEE FOUNDATION EXTENSION DETAIL.
- THE HOLE FOR THE FOUNDATION SHALL BE MADE BY DRILLING WITH AN AUGER, OF THE SAME DIAMETER AS THE FOUNDATION. IF SOIL CONDITIONS REQUIRE THE USE OF A LINER TO FORM THE HOLE, THE LINER SHALL BE WITHDRAWN AS THE CONCRETE IS DEPOSITED.
- THE TOP OF THE FOUNDATION SHALL BE CONSTRUCTED LEVEL. A LINER OR FORM SHALL BE USED TO PRODUCE A UNIFORM SMOOTH SIDE TO THE TOP OF THE FOUNDATION. FOUNDATION TOP SHALL BE CHAMFERED 3/4-IN. (20 mm).
- THE CONCRETE SHALL BE CLASS S1. CONCRETE SHALL CURE ACCORDING TO ARTICLE 1020.13 BEFORE LIGHT POLES ARE INSTALLED.
- THE ANCHOR ROD SHALL BE A HOOK ROD TYPE. COLD BENDING OF THE ANCHOR ROD WILL NOT BE ALLOWED. THE RADIUS OF THE HOOK BEND SHALL NOT BE LESS THAN 4 TIMES THE NOMINAL DIAMETER OF THE ANCHOR ROD. A TACK WELDED ANCHOR ROD MAY BE SUBSTITUTED WITH THE APPROVAL OF THE ENGINEER.
- THE ANCHOR RODS SHALL BE ACCORDING TO ASTM F1554 GRADE 725 (GRADE 105). NUTS SHALL BE HEXAGON NUTS ACCORDING TO ASTM A 194 2H OR ASTM A 563 DH, AND WASHERS SHALL BE ACCORDING TO ASTM F 436.
- ANCHOR RODS, NUTS AND WASHERS SHALL BE COMPLETELY GALVANIZED BY EITHER THE HOT-DIPPED PROCESS CONFORMING WITH AASHTO M 232, THE MECHANICAL PLATING METHOD CONFORMING TO AASHTO M 298, CLASS 50 WITH A MAXIMUM COATING THICKNESS OF 150 UM/6 MILS) OR THE ELECTROLYTIC PROCESS ACCORDING TO ASTM F 1136.
- THE ANCHOR RODS SHALL BE THREADED A MINIMUM OF 6 INCHES (150 mm) WITH A MINIMUM OF 3 INCHES (75 mm) OF THREADED ANCHOR ROD EMBEDDED IN THE FOUNDATION.
- ANCHOR RODS SHALL PROJECT 2 3/4" (69.9 mm) ABOVE THE TOP OF THE FOUNDATION. IF BREAKAWAY COUPLINGS ARE SPECIFIED, THE CONTRACTOR SHALL CAREFULLY COORDINATE THE ANCHOR ROD PROJECTION WITH THE INSTALLATION REQUIREMENTS OF THE BREAKAWAY COUPLINGS.
- THE CONTRACTOR SHALL USE A #3 SPIRAL AT 6" (152.4 mm) PITCH OR MAY SUBSTITUTE #3 TIES AT 12" (304.8 mm) O.C. WITH THE APPROVAL OF THE ENGINEER.
- THE CABLE TRENCHES AND FOUNDATION SHALL BE BACK FILLED AND COMPACTED AS SPECIFIED BEFORE THE LIGHT POLE IS ERECTED.
- THE RACEWAYS SHALL PROJECT 1" (25.4 mm) ABOVE THE TOP OF THE FOUNDATION.

FILE NAME * W:\diststd\22x34\ba381.dgn	USER NAME * gegjanobt	DESIGNED - -	REVISED - 04-22-C2	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION		LIGHT POLE FOUNDATION		F.A. - RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE * 50,0000 / IN.	DRAWN - -	REVISED - -			40' (12.192 m) TO 47' 1/2' (14.478 m) M.H. 15" (381 mm) BOLT CIRCLE		SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.	BE-301
	PLOT DATE * 1/4/2008	CHECKED - -	REVISED - -							FED. ROAD DIST. NO. 1 [ILLINOIS] FED. AID PROJECT		

LT-07

FOR REFERENCE ONLY

CHRISTIAN-ROGE & ASSOCIATES, INC.
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211 WEST WACKER DRIVE
CHICAGO, ILLINOIS 60606
PHONE: (312)372-2023 FAX: (312)372-5274

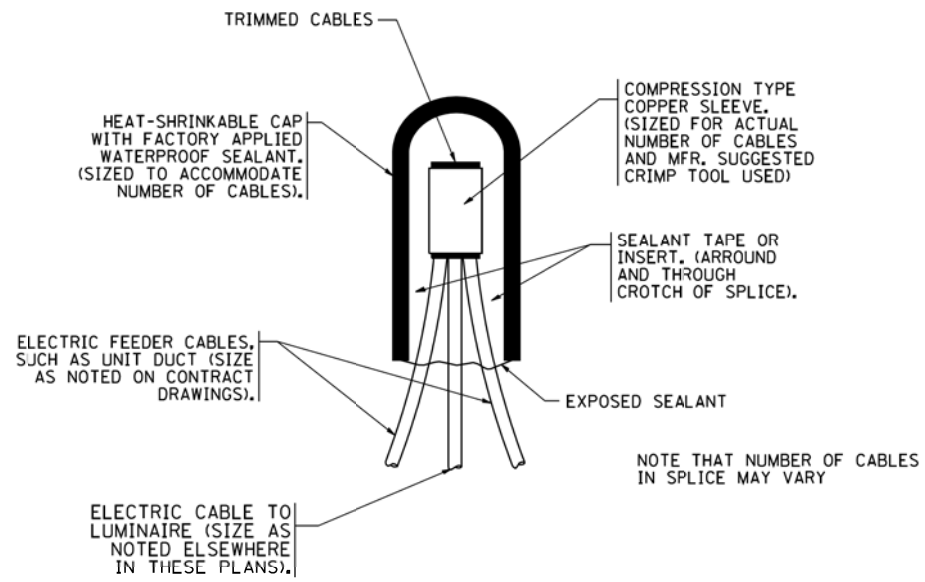
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DRAWN - RC	REVISED -
CHECKED - IB	REVISED -
DATE - NOVEMBER 12, 2015	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

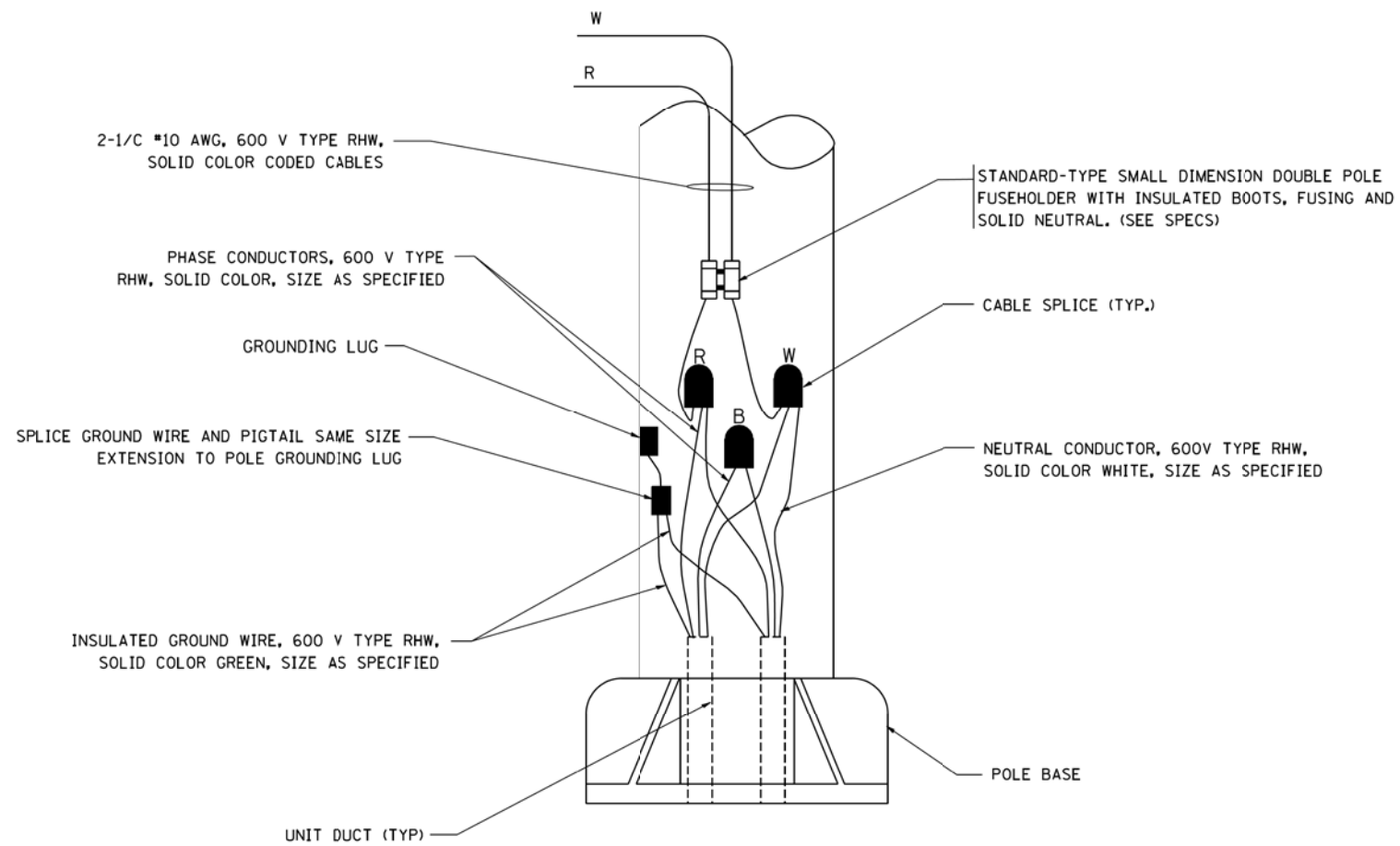
LIGHT POLE FOUNDATION, 30' T 35' M.H., 1 1/2" BOLT CIRCLE			
SCALE: NONE	SHEET NO. 67 OF 16 SHEETS	STA. XXX+XX	TO STA. XXX+XX

F.A. - RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	2014-065-R	WILL	184	126
CONTRACT NO. 62A00				
FED. ROAD DIST. NO. 1 [ILLINOIS] FED. AID PROJECT				



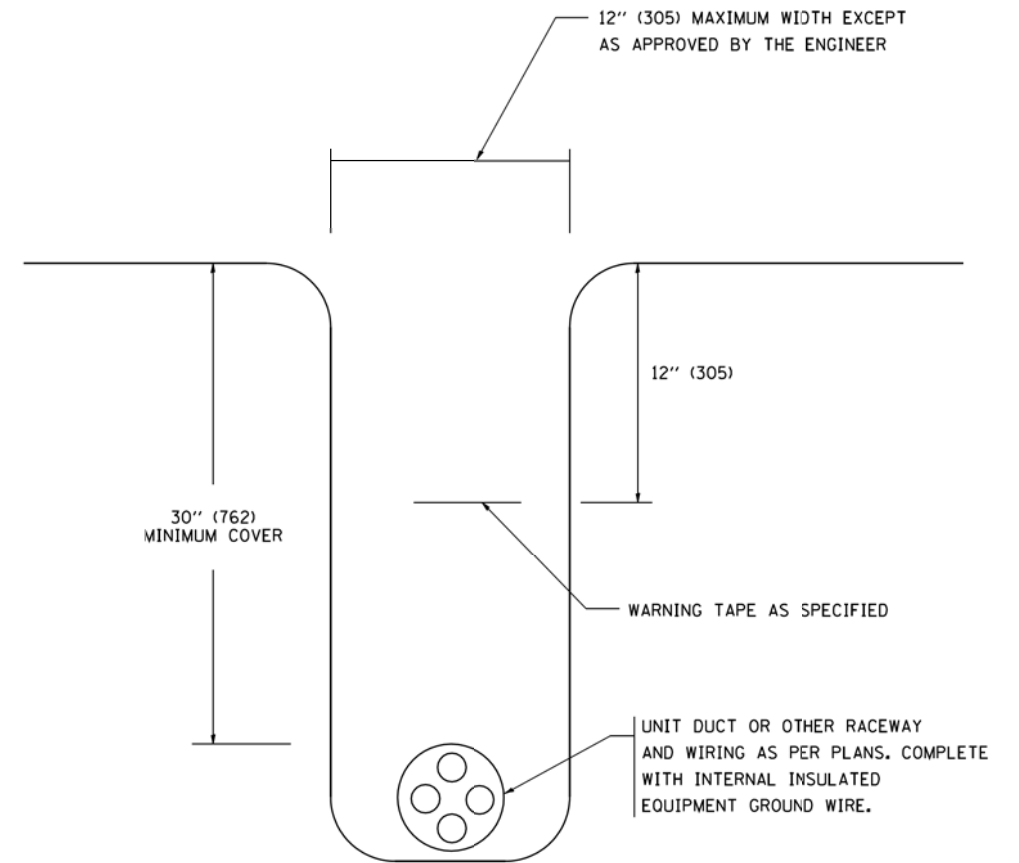
TYPICAL SPLICE DETAIL

N.T.S.



POLE WIRING DETAIL

N.T.S.



TYPICAL WIRING IN TRENCH DETAIL

N.T.S.

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USER NAME = gaglianob

DESIGNED - REVISED - 08-08-03

DRAWN - REVISED -

PLOT SCALE = 50.000' / IN.

CHECKED - REVISED -

PLOT DATE = 1/4/2008

DATE - REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MISC. ELECTRICAL DETAILS
SHEET A

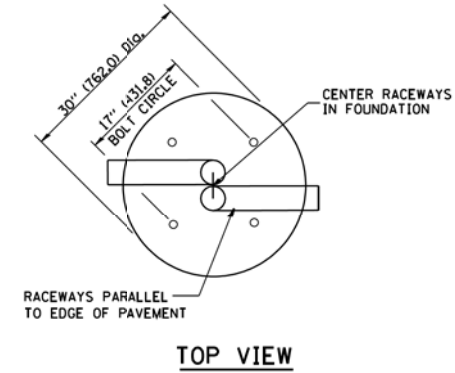
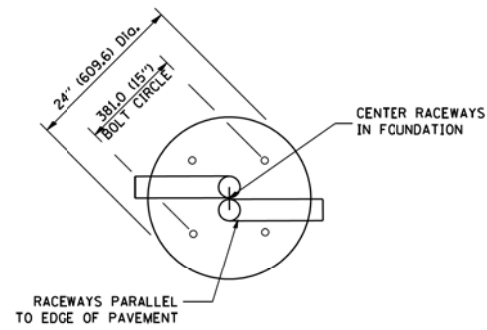
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F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	2014-065-R		184	127
BE-702			CONTRACT NO. 62A00	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

LT-08

LIGHT POLE FOUNDATION DEPTH TABLE
40 FT. (12.192 m) TO 47.5 FT. (14.478 m) MOUNTING HEIGHT

SOIL CONDITIONS	DESIGN DEPTH "D" OF FOUNDATION	
	SINGLE ARM POLE	TWIN ARM POLE
SOFT CLAY O _u = 0.375 TON/SO. FT.	13'-0" (3.96 m)	15'-0" (4.57 m)
MEDIUM CLAY O _u = 0.75 TON/SO.FT	9'-6" (2.93 m)	10'-9" (3.23 m)
STIFF CLAY O _u = 1.50 TON/SO. FT.	7'-0" (2.13 m)	8'-0" (2.44 m)
LOOSE SAND φ = 34°	9'-0" (2.74 m)	10'-0" (3.05 m)
MEDIUM SAND φ = 37.5°	8'-3" (2.52 m)	9'-0" (2.74 m)
DENSE SAND φ = 40°	7'-9" (2.36 m)	9'-0" (2.74 m)

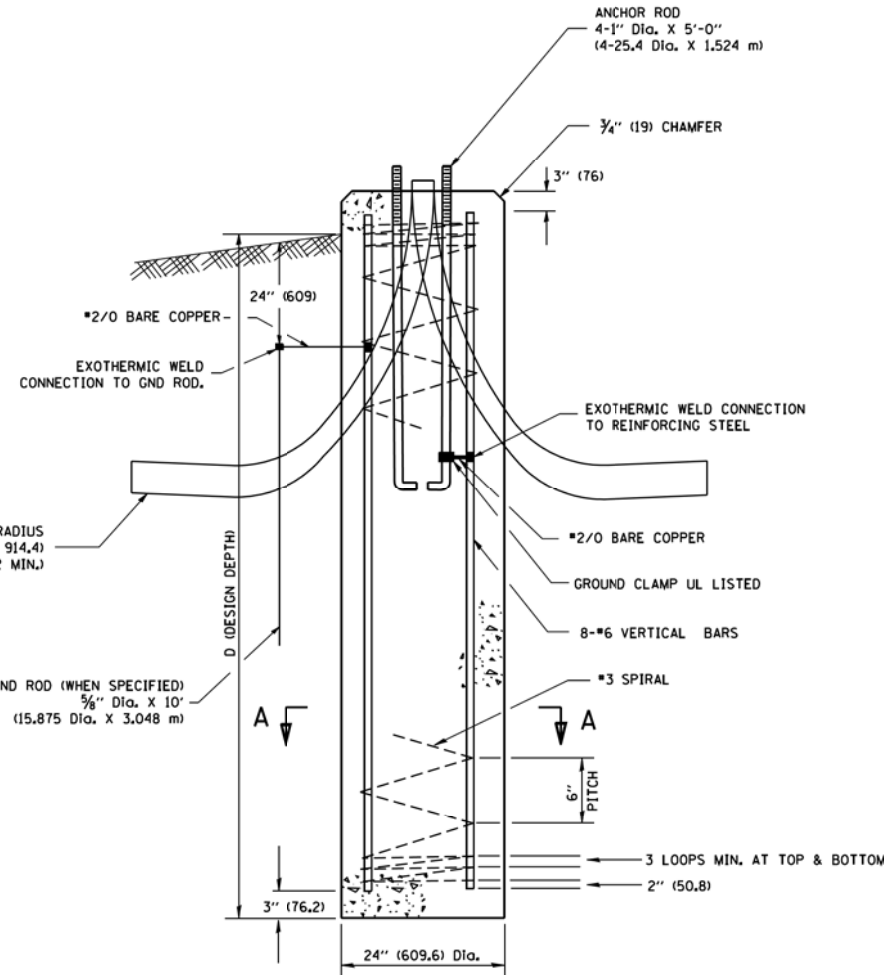


TOP VIEW

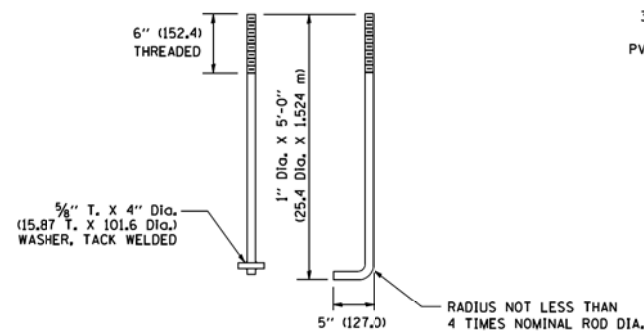
TOP VIEW

NOTES

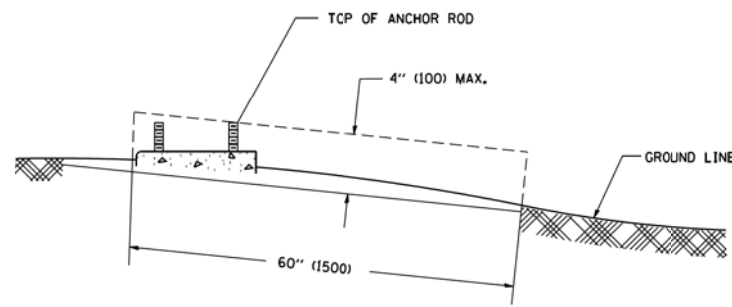
- ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.
- THE ANCHOR RODS AND RACEWAYS SHALL BE PROPERLY SECURED IN PLACE BEFORE THE CONCRETE IS PLACED.
- THE FOUNDATION SHALL NOT PROTRUDE MORE THAN 100MM (4 IN.) ABOVE THE FINISHED GRADE WITHIN A 60 IN. (1.5 m) CHORD ACROSS THE FOUNDATION, WITH ANCHOR RODS INCLUDED, IN ACCORDANCE WITH AASHTO GUIDELINES. IF THE FOUNDATION HEIGHT, INCLUDING ANCHOR RODS, EXTENDS BEYOND THESE SPECIFIED LIMITS, THE FOUNDATION SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE. SEE FOUNDATION EXTENSION DETAIL.
- THE HOLE FOR THE FOUNDATION SHALL BE MADE BY DRILLING WITH AN AUGER, OF THE SAME DIAMETER AS THE FOUNDATION. IF SOIL CONDITIONS REQUIRE THE USE OF A LINER TO FORM THE HOLE, THE LINER SHALL BE WITHDRAWN AS THE CONCRETE IS DEPOSITED.
- THE TOP OF THE FOUNDATION SHALL BE CONSTRUCTED LEVEL. A LINER OR FORM SHALL BE USED TO PRODUCE A UNIFORM SMOOTH SIDE TO THE TOP OF THE FOUNDATION. FOUNDATION TOP SHALL BE CHAMFERED 3/4-IN. (20 mm).
- THE CONCRETE SHALL BE CLASS S1. CONCRETE SHALL CURE ACCORDING TO ARTICLE 1020.13 BEFORE LIGHT POLES ARE INSTALLED.
- THE ANCHOR ROD SHALL BE A HOOK ROD TYPE. COLD BENDING OF THE ANCHOR ROD WILL NOT BE ALLOWED. THE RADIUS OF THE HOOK BEND SHALL NOT BE LESS THAN 4 TIMES THE NOMINAL DIAMETER OF THE ANCHOR ROD. A TACK WELDED ANCHOR ROD MAY BE SUBSTITUTED WITH THE APPROVAL OF THE ENGINEER.
- THE ANCHOR RODS SHALL BE ACCORDING TO ASTM F1554 GRADE 725 (GRADE 105). NUTS SHALL BE HEXAGON NUTS ACCORDING TO ASTM A 194 2H OR ASTM A 563 DH, AND WASHERS SHALL BE ACCORDING TO ASTM F 436.
- ANCHOR RODS, NUTS AND WASHERS SHALL BE COMPLETELY GALVANIZED BY EITHER THE HOT-DIPPED PROCESS CONFORMING WITH AASHTO M 232, THE MECHANICAL PLATING METHOD CONFORMING TO AASHTO M 298, CLASS 50 WITH A MAXIMUM COATING THICKNESS OF 150 UMG MILS) OR THE ELECTROLYTIC PROCESS ACCORDING TO ASTM F 1136.
- THE ANCHOR RODS SHALL BE THREADED A MINIMUM OF 6 INCHES (150 mm) WITH A MINIMUM OF 3 INCHES (75 mm) OF THREADED ANCHOR ROD EMBEDDED IN THE FOUNDATION.
- ANCHOR RODS SHALL PROJECT 2 3/4" (69.9 mm) ABOVE THE TOP OF THE FOUNDATION. IF BREAKAWAY COUPLINGS ARE SPECIFIED, THE CONTRACTOR SHALL CAREFULLY COORDINATE THE ANCHOR ROD PROJECTION WITH THE INSTALLATION REQUIREMENTS OF THE BREAKAWAY COUPLINGS.
- THE CONTRACTOR SHALL USE A #3 SPIRAL AT 6" (152.4 mm) PITCH OR MAY SUBSTITUTE #3 TIES AT 12" (304.8 mm) O.C. WITH THE APPROVAL OF THE ENGINEER.
- THE CABLE TRENCHES AND FOUNDATION SHALL BE BACK FILLED AND COMPACTED AS SPECIFIED BEFORE THE LIGHT POLE IS ERECTED.
- THE RACEWAYS SHALL PROJECT 1" (25.4 mm) ABOVE THE TOP OF THE FOUNDATION.



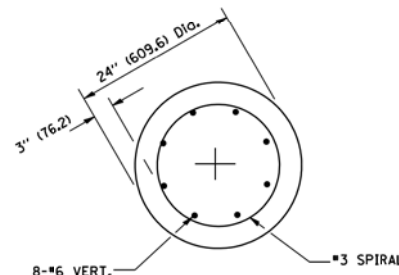
FOUNDATION DETAIL



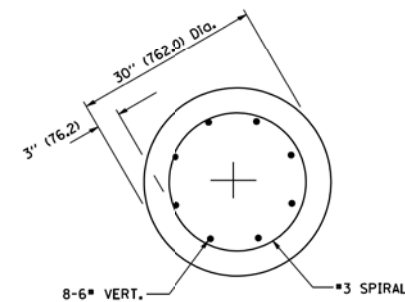
ANCHOR ROD DETAIL



FOUNDATION EXTENSION DETAIL



SECTION A-A



SECTION A-A

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REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LIGHT POLE FOUNDATION

40' (12.192 m) TO 47' 1/2" (14.478 m) M.H. 15" (381 mm) BOLT CIRCLE

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

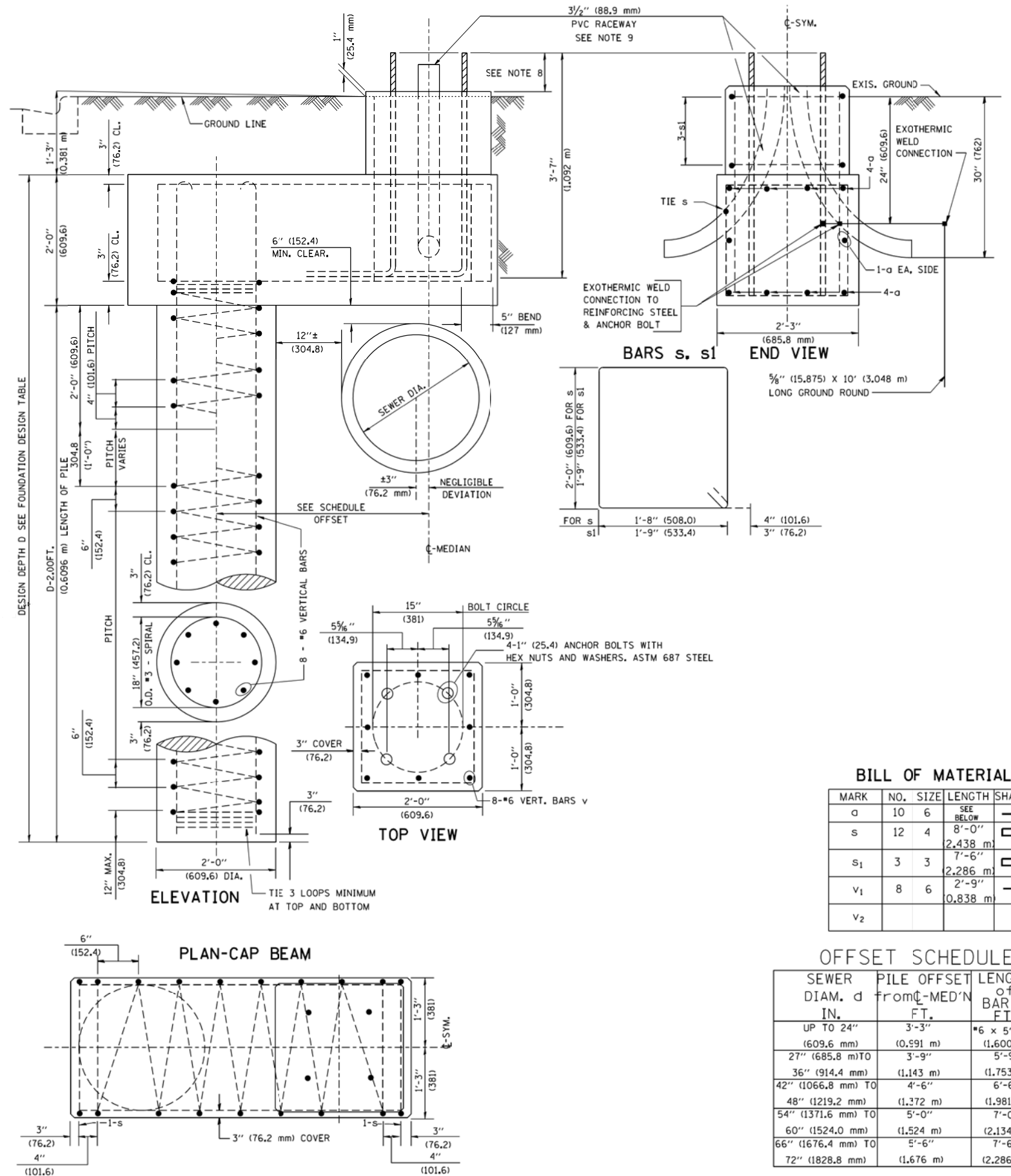
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	2014-065-R		184	128
	BE-301		CONTRACT NO. 62A00	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

FOUNDATION DESIGN TABLE

TYPE OF SOIL	DESIGN DEPTH OF FOUNDATION		REINFORCEMENT IN FOUNDATION			
	SINGLE ARM D	TWIN ARM D	SINGLE ARM		TWIN ARM	
			VERT BARS	SPIRAL	VERT BARS	SPIRAL
SOFT CLAY	13'-0" (3.962 m)	15'-0" (4.572 m)	8-#6X12'-6" (3.810 m)	#3X122' (37.185 m)	8-#6X14'-3" (4.343 m)	#3X141' (42.977 m)
MEDIUM CLAY	9'-6" (2.896 m)	10'-9" (3.277 m)	8-#6X9'-0" (2.743 m)	#3X90' (27.432 m)	8-#6X10'-0" (3.048 m)	#3X100' (30.480 m)
STIFF CLAY	7'-0" (2.134 m)	8'-0" (2.438 m)	8-#6X6'-6" (1.981 m)	#3X56' (20.112 m)	8-#6X7'-6" (2.286 m)	#3X76' (23.165 m)
LOOSE SAND	9'-0" (2.743 m)	10'-0" (3.048 m)	8-#6X8'-6" (2.591 m)	#3X85' (25.908 m)	8-#6X9'-6" (2.896 m)	#3X94' (28.651 m)
MEDIUM SAND	8'-3" (2.515 m)	9'-0" (2.743 m)	8-#6X8'-0" (2.438 m)	#3X78' (23.774 m)	8-#6X8'-6" (2.591 m)	#3X85' (25.908 m)
DENSE SAND	7'-9" (2.362 m)	9'-0" (2.743 m)	8-#6X7'-6" (2.286 m)	#3X73' (22.250 m)	8-#6X8'-6" (2.591 m)	#3X85' (25.908 m)
ROCK OR SOLIDIFIED SLAG	5'-0" (1.524 m)	5'-0" (1.524 m)	NONE	NONE	NONE	NONE

NOTES

- ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.
- THE ENGINEER SHALL DETERMINE THE CLASS OF SOIL DURING EXCAVATION AND SELECT THE DESIGN DEPTH OF FOUNDATION FROM THE DESIGN TABLE.
- EXCAVATION OF THE POLE FOUNDATION SHALL BE MADE WITH AN AUGER, 24" (609.6 mm) OR 30" (762.0 mm) IN DIAMETER.
- THE ANCHOR ROD SHALL BE A HOOK ROD TYPE. COLD BENDING OF THE ANCHOR ROD WILL NOT BE ALLOWED. THE RADIUS OF THE HOOK BEND SHALL NOT BE LESS THAN 4 TIMES THE NOMINAL DIAMETER OF THE ANCHOR ROD. A TACK WELDED ANCHOR ROD MAY BE SUBSTITUTED WITH THE APPROVAL OF THE ENGINEER.
- THE ANCHOR BOLTS AND RACEWAYS SHALL BE PROPERLY SECURED IN PLACE BEFORE THE CONCRETE IS PLACED IN THE FORM.
- THE ANCHOR RODS SHALL BE ACCORDING TO ASTM F1554 GRADE 725 (GRADE 105). NUTS SHALL BE HEXAGON NUTS ACCORDING TO ASTM A 194 2H OR ASTM A 563 DH, AND WASHERS SHALL BE ACCORDING TO ASTM F 436.
- THE CONTRACTOR SHALL COORDINATE EXTENSION OF ANCHOR BOLTS ABOVE TOP OF FOUNDATION WITH THE BREAKAWAY DEVICE MANUFACTURER'S REQUIREMENTS. IF LIGHT POLE IS MOUNTED WITHOUT BREAKAWAY DEVICE, ANCHOR BOLTS SHALL PROJECT 2 3/4" (69.9 mm) ABOVE TOP OF THE FOUNDATION. THE CONTRACTOR SHALL CONFIRM ANCHOR BOLT EXTENTION WITH ENGINEER.
- RACEWAYS SHALL PROJECT 1" (25.4 mm) ABOVE THE TOP OF THE FOUNDATION.
- THE CABLE TRENCH SHALL BE BACKFILLED AND FIRMLY COMPACTED BEFORE THE LIGHT IS ERECTED.



BILL OF MATERIAL

MARK	NO.	SIZE	LENGTH	SHAPE
a	10	6	SEE BELOW	—
s	12	4	8'-0" 2.438 m	□
s ₁	3	3	7'-6" 2.286 m	□
v ₁	8	6	2'-9" 0.838 m	—
v ₂				

OFFSET SCHEDULE

SEWER DIAM. d IN.	PILE OFFSET from C-MED'N FT.	LENGTH of BAR a FT.
UP TO 24" (609.6 mm)	3'-3" (0.991 m)	#6 x 5'-3" (1.600 m)
27" (685.8 mm) TO	3'-9" (1.143 m)	5'-9" (1.753 m)
36" (914.4 mm) TO	4'-6" (1.372 m)	6'-6" (1.981 m)
48" (1219.2 mm) TO	5'-0" (1.524 m)	7'-0" (2.134 m)
54" (1371.6 mm) TO	5'-6" (1.676 m)	7'-6" (2.286 m)
60" (1524.0 mm) TO	6'-0" (1.828 m)	8'-0" (2.438 m)
66" (1676.4 mm) TO	6'-6" (1.981 m)	8'-6" (2.591 m)
72" (1828.8 mm) TO	7'-0" (2.134 m)	9'-0" (2.743 m)

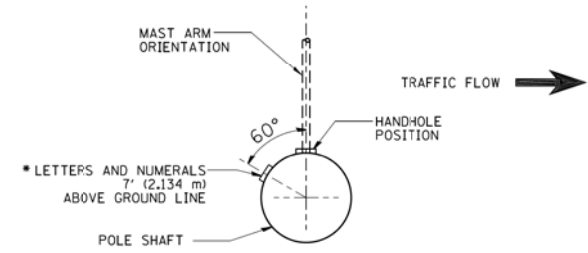
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

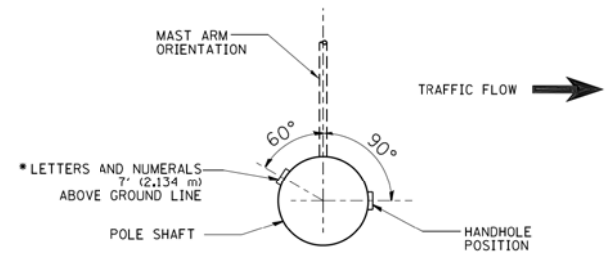
LIGHT POLE FOUNDATION OFFSET
40" (1219.2 mm) TO 47 1/2" (1447.8 mm) M.H.
15" (381 mm) BOLT CIRCLE

SCALE: SHEET NO. 1 OF 1 SHEETS STA. TO STA.

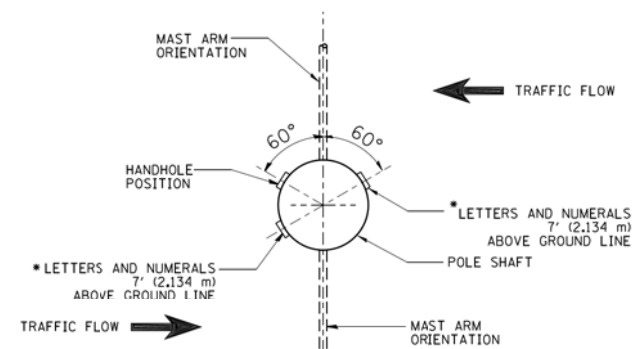
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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	BE-310		CONTRACT NO. 62A00	
ILLINOIS/FED. AID PROJECT				



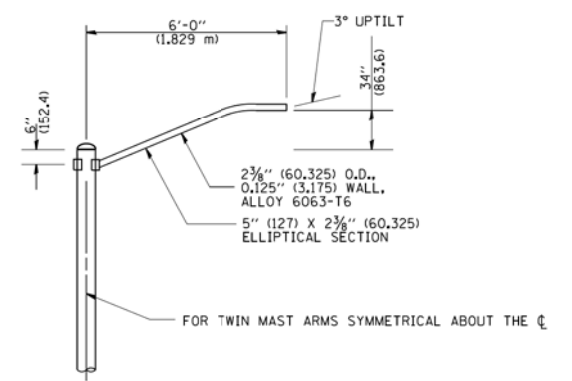
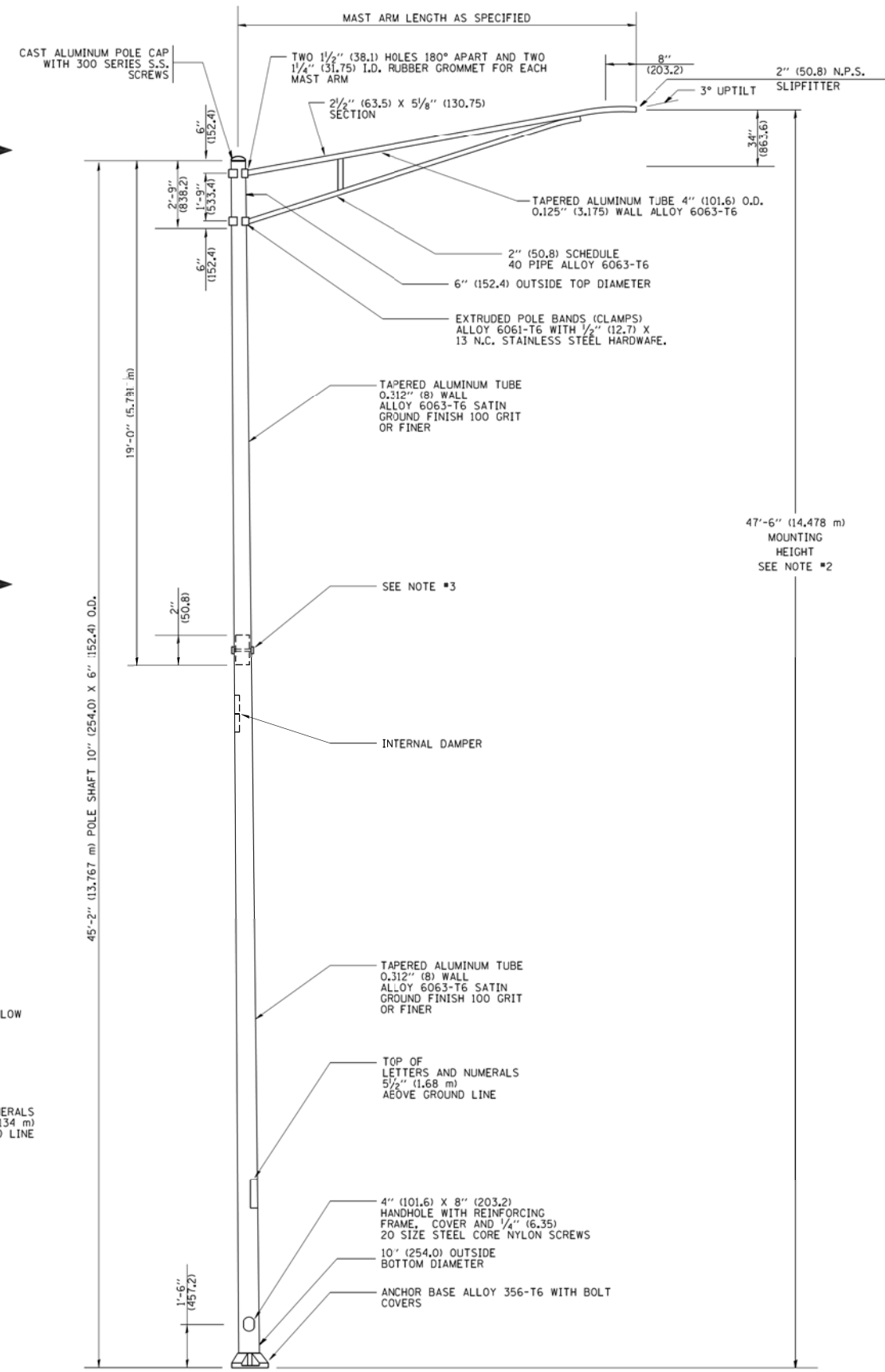
POSITION OF HANDHOLE AND POLE NUMBER FOR SINGLE MAST ARM POLES MOUNTED ON BRIDGE PARAPET OR BARRIER WALL



POSITION OF HANDHOLE AND POLE NUMBER FOR SINGLE MAST ARM POLES

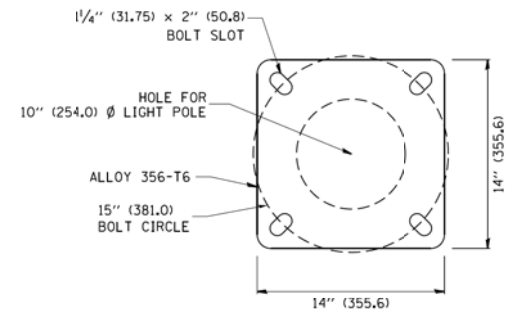


POSITION OF HANDHOLE AND POLE NUMBER FOR TWIN MAST ARM POLES

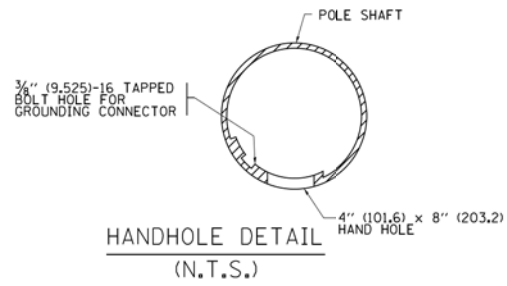


6' (1.8 m) SINGLE MEMBER MAST ARM (N.T.S.)

- NOTES:
1. ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.
 2. MOUNTING HEIGHT IS DEFINED AS THE DISTANCE FROM THE CENTERLINE OF THE TENON TO THE BOTTOM OF THE ANCHOR BASE.
 3. TWO PIECE SHAFT WILL BE MATCHED MARKED AND INTERCHANGEABLE BETWEEN DIFFERENT UNITS. FIELD DRILLING OF THE HOLES WILL NOT BE ALLOWED.
 4. THE LIGHT POLE WILL MEET AASHTO DESIGN CRITERIA AS SPECIFIED.
 5. THE INSTALLING CONTRACTOR WILL PROVIDE A UL LISTED GROUNDING CONNECTOR, BURNDY K2C23, T&B SP4DL OR APPROVED EQUAL.
 6. LIGHT POLES WILL NOT BE INSTALLED WITHOUT MAST ARMS AND LUMINAIRES.
 7. LIGHT POLES WILL BE SET PLUMB ON THE FOUNDATION WITHOUT THE USE OF LEVELING NUTS, WASHERS OR SHIMS.
 8. LIGHTING UNIT IDENTIFICATION NUMBERS SHALL BE INSTALLED BEFORE THE LIGHTING UNIT IS ENERGIZED.



LIGHT POLE BASE PLATE DETAIL
15 INCH (381.0) BOLT CIRCLE



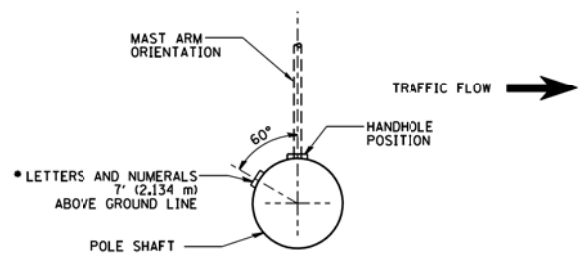
HANDHOLE DETAIL (N.T.S.)

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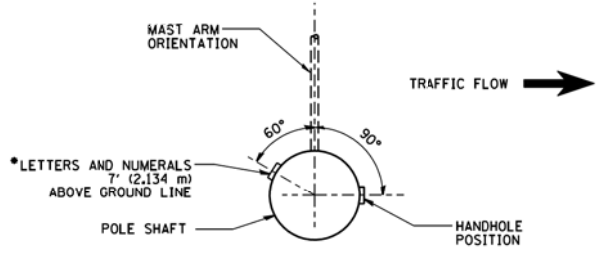
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ALUMINUM LIGHT POLE			
47'-6" (14.478 m) MOUNTING HEIGHT			
SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.

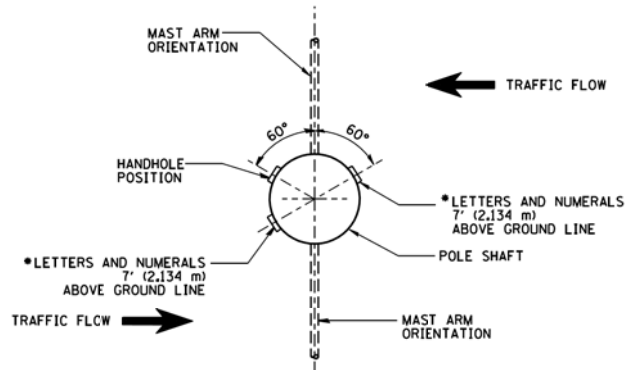
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	2014-065-R		184	130
BE-400		CONTRACT NO. 62A00		
FED. ROAD DIST. NO. 1 ILLINOIS/FED. AID PROJECT				



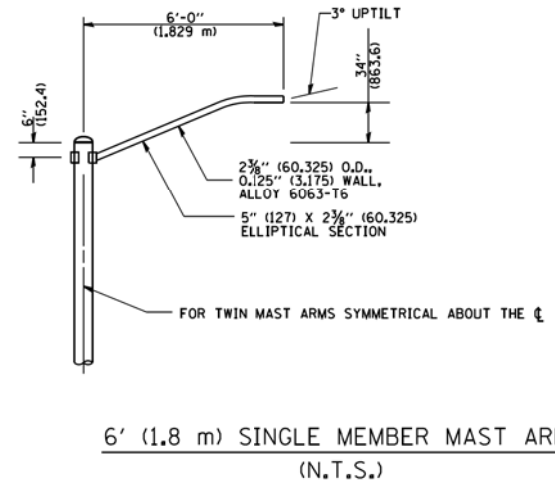
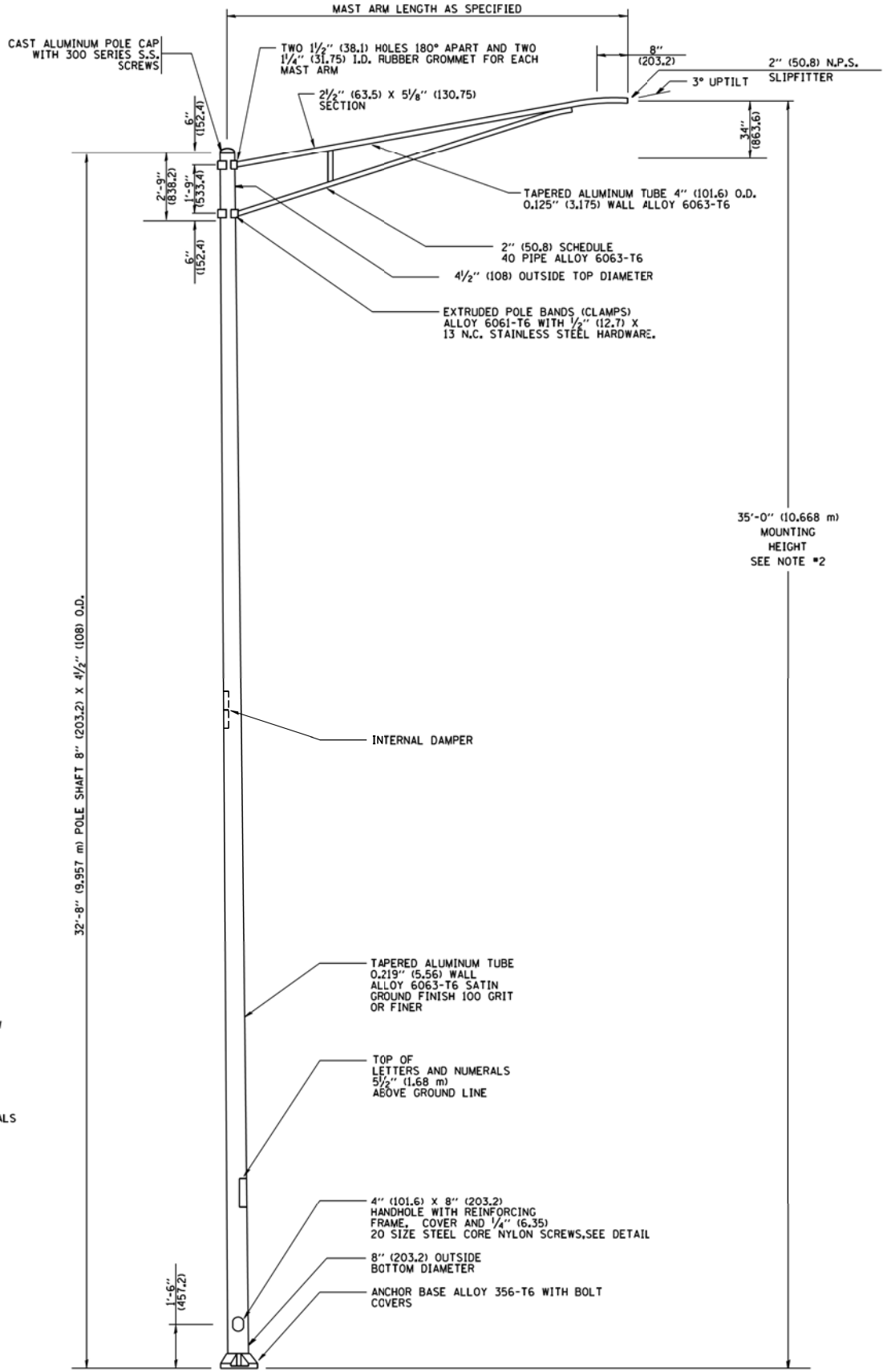
POSITION OF HANDHOLE AND POLE NUMBER FOR SINGLE MAST ARM POLES MOUNTED ON BRIDGE PARAPET OR BARRIER WALL



POSITION OF HANDHOLE AND POLE NUMBER FOR SINGLE MAST ARM POLES

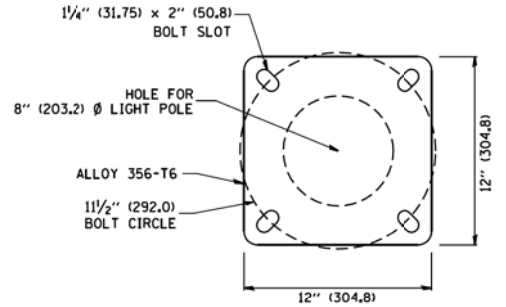


POSITION OF HANDHOLE AND POLE NUMBER FOR TWIN MAST ARM POLES

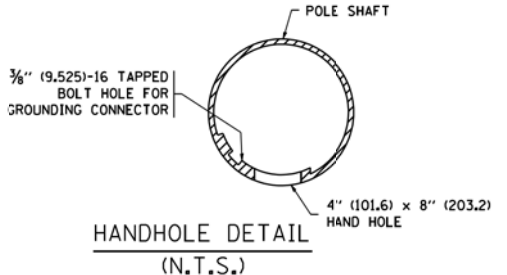


6' (1.8 m) SINGLE MEMBER MAST ARM (N.T.S.)

- NOTES:
1. ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.
 2. MOUNTING HEIGHT IS DEFINED AS THE DISTANCE FROM THE CENTERLINE OF THE TENON TO THE BOTTOM OF THE ANCHOR BASE.
 3. THE LIGHT POLE WILL MEET AASHTO DESIGN CRITERIA AS SPECIFIED.
 4. THE INSTALLING CONTRACTOR WILL PROVIDE A UL LISTED GROUNDING CONNECTOR, BURNDY K2C23, T&B SPADL OR APPROVED EQUAL.
 5. LIGHT POLES WILL NOT BE INSTALLED WITHOUT MAST ARMS AND LUMINAIRES.
 6. LIGHT POLES WILL BE SET PLUMB ON THE FOUNDATION WITHOUT THE USE OF LEVELING NUTS, WASHERS OR SHIMS.
 7. LIGHTING UNIT IDENTIFICATION NUMBERS SHALL BE INSTALLED BEFORE THE LIGHTING UNIT IS ENERGIZED.



LIGHT POLE BASE PLATE DETAIL
1 1/2" (292.0) BOLT CIRCLE



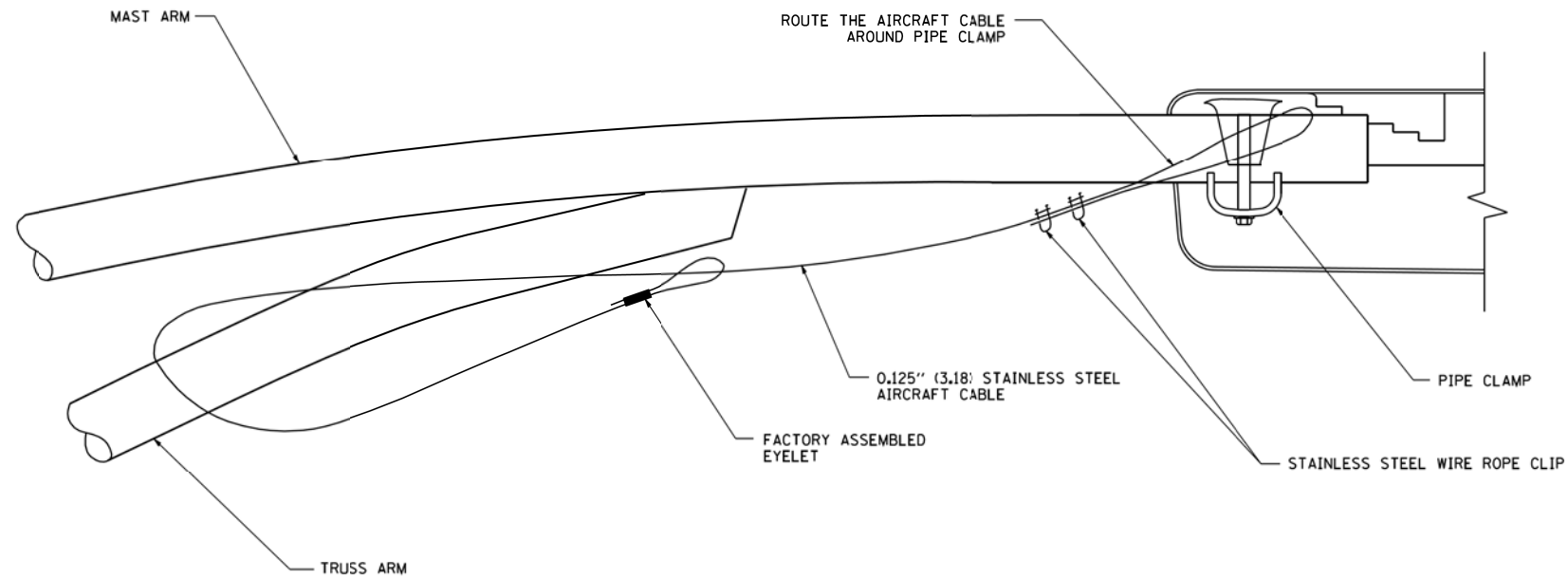
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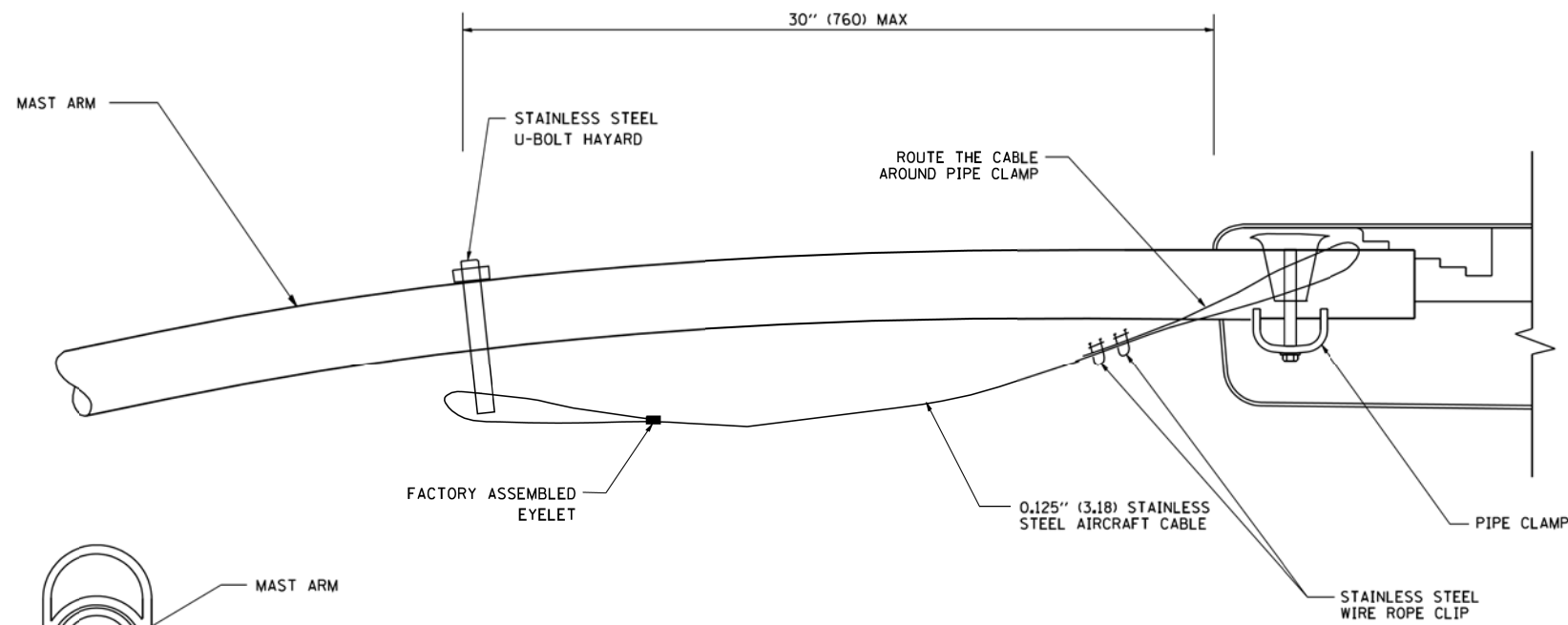
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ALUMINUM LIGHT POLE	
35'-0" (10.668 m) MOUNTING HEIGHT	
SCALE: NONE	SHEET NO. 1 OF 1 SHEETS

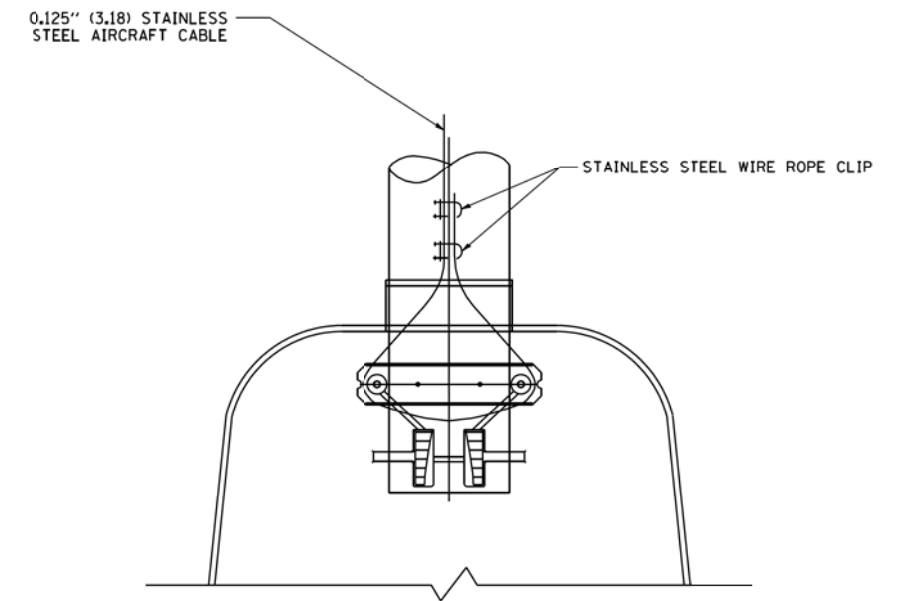
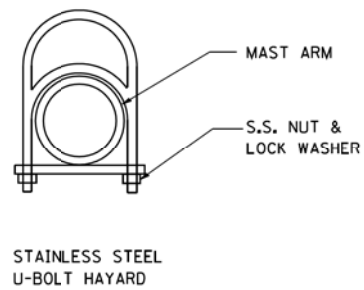
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	2014-065-R		184	131
BE-402		CONTRACT NO. 62A00		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



SIDE VIEW (TRUSS ARM)
N.T.S.



SIDE VIEW (SINGLE MEMBER OR DAVIT ARM)
N.T.S.



BOTTOM VIEW
N.T.S.

NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETERS (INCHES) UNLESS OTHERWISE SHOWN.
2. CONTRACTOR SHALL ADJUST THE WIRE CLIP TO ELIMINATE ANY SLACK FROM THE WIRE ROPE.
3. THE 0.125" (3.18) STAINLESS STEEL AIRCRAFT CABLE SHALL REMAIN VISIBLE FROM THE GROUND LEVEL.
4. THE BREAKING STRENGTH OF THE CABLE SHALL BE 1700 LBS. MIN.

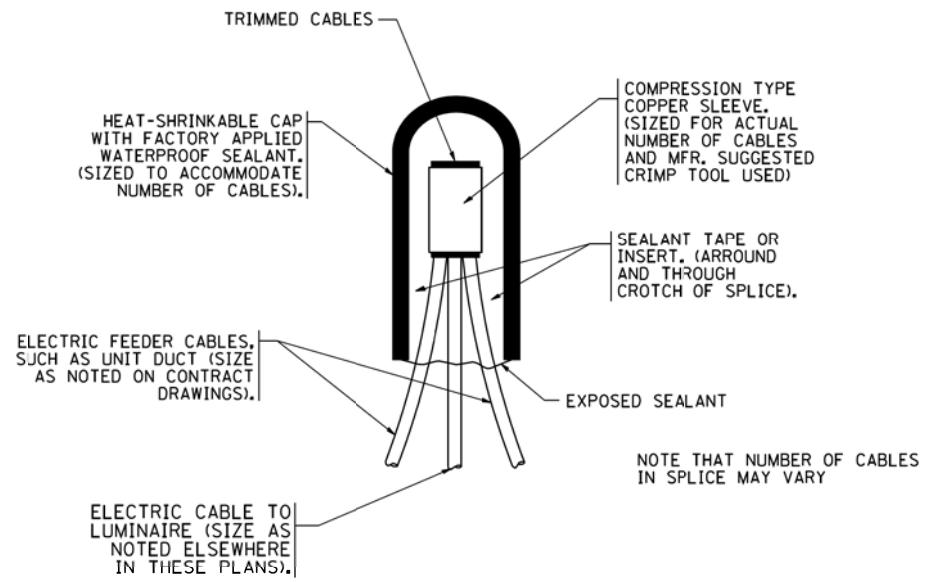
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

LUMINAIRE SAFETY CABLE ASSEMBLY

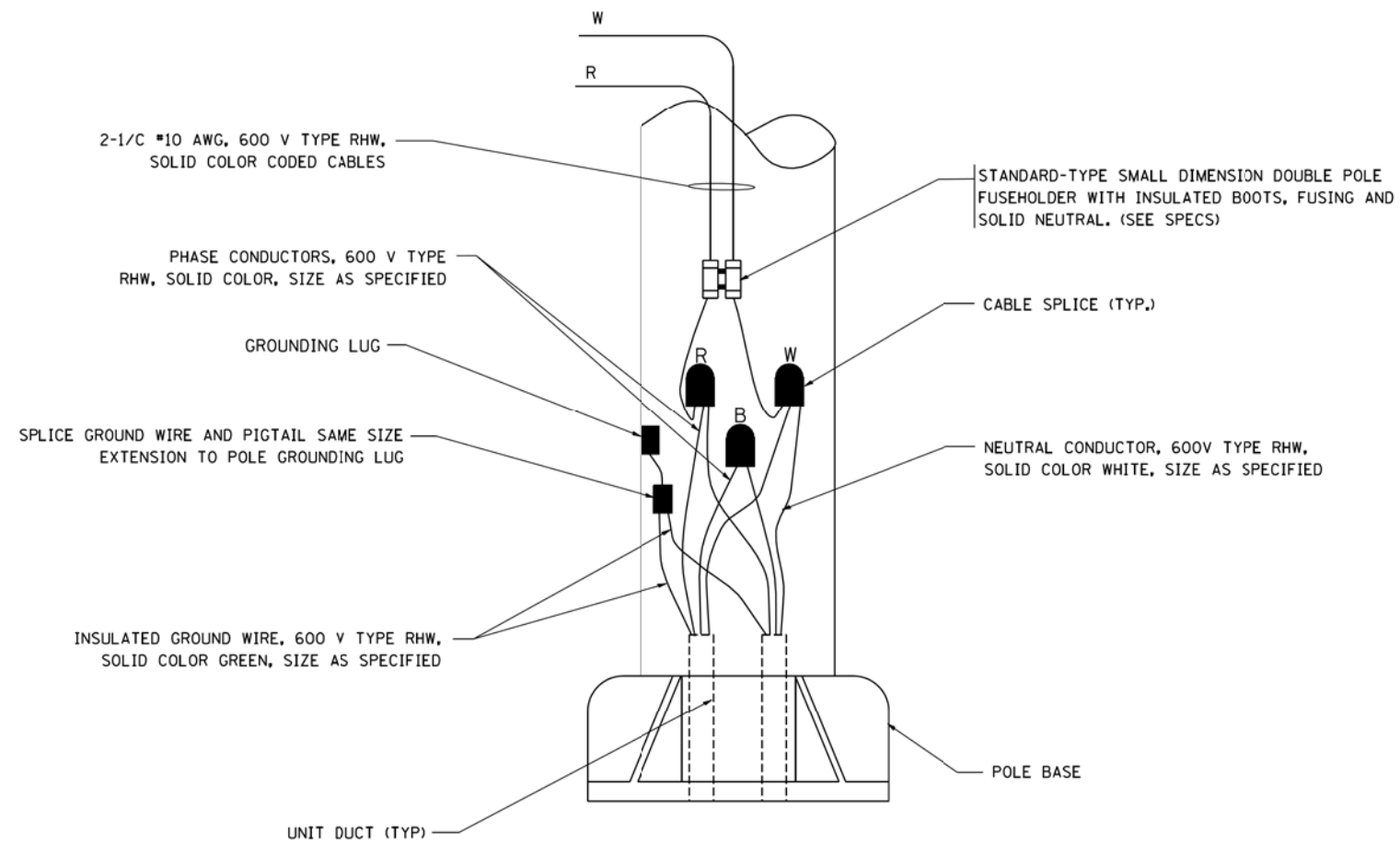
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F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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BE-701		CONTRACT NO. 62A00		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



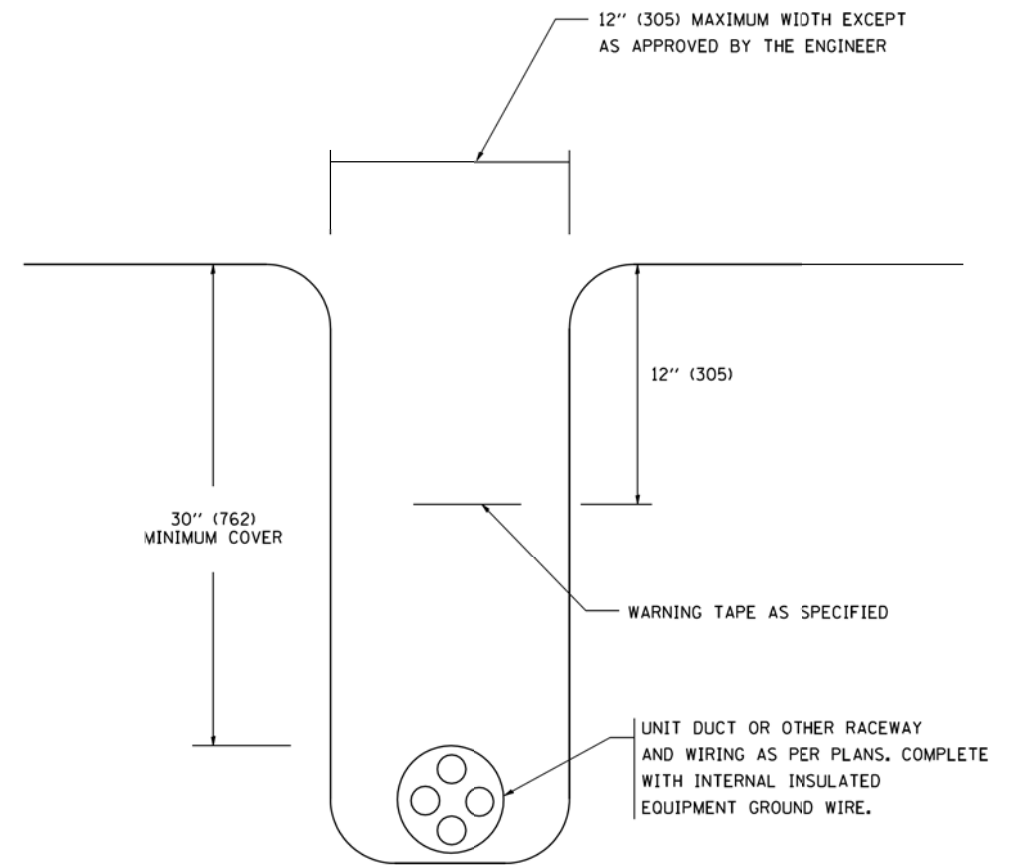
TYPICAL SPLICE DETAIL

N.T.S.



POLE WIRING DETAIL

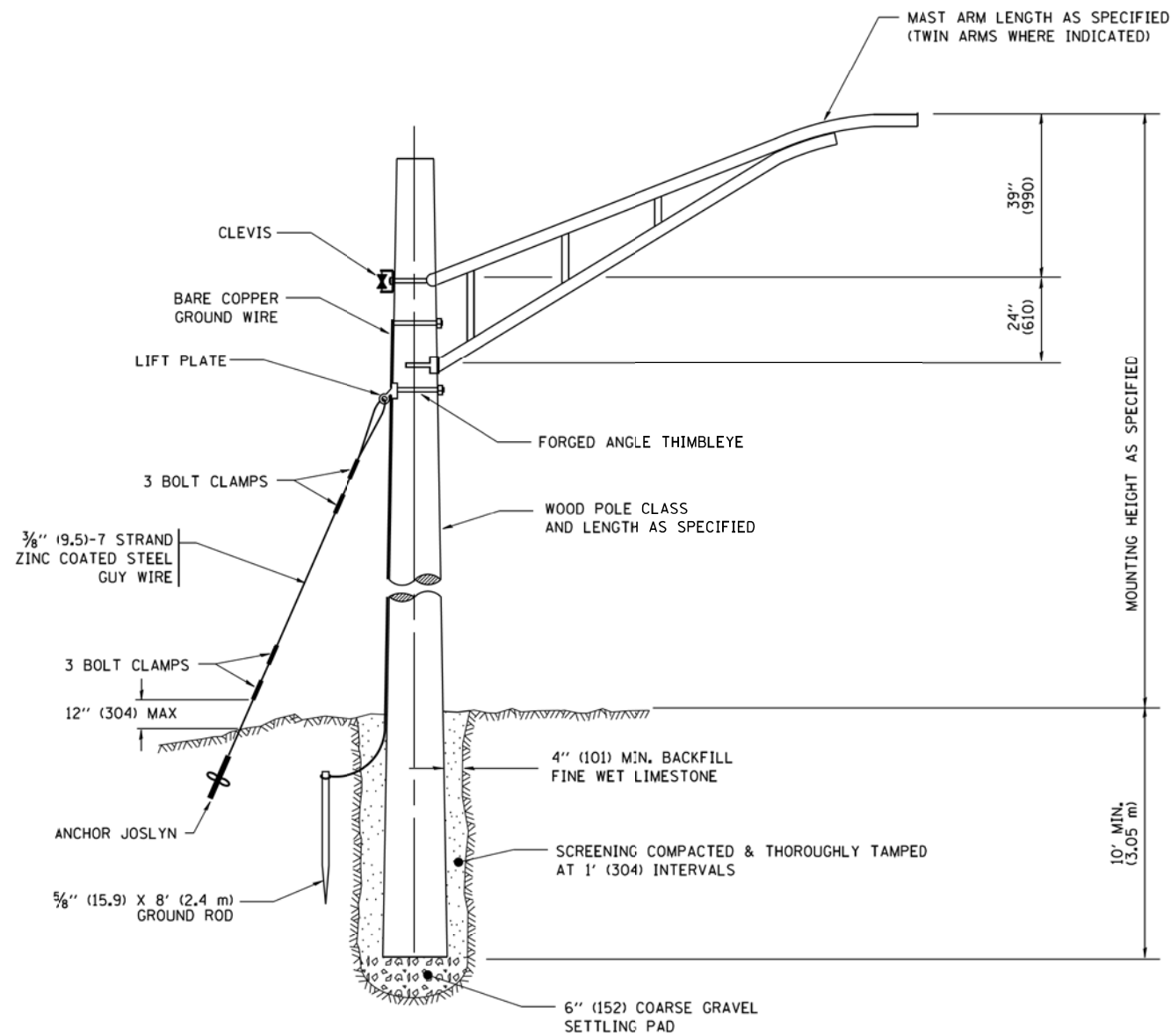
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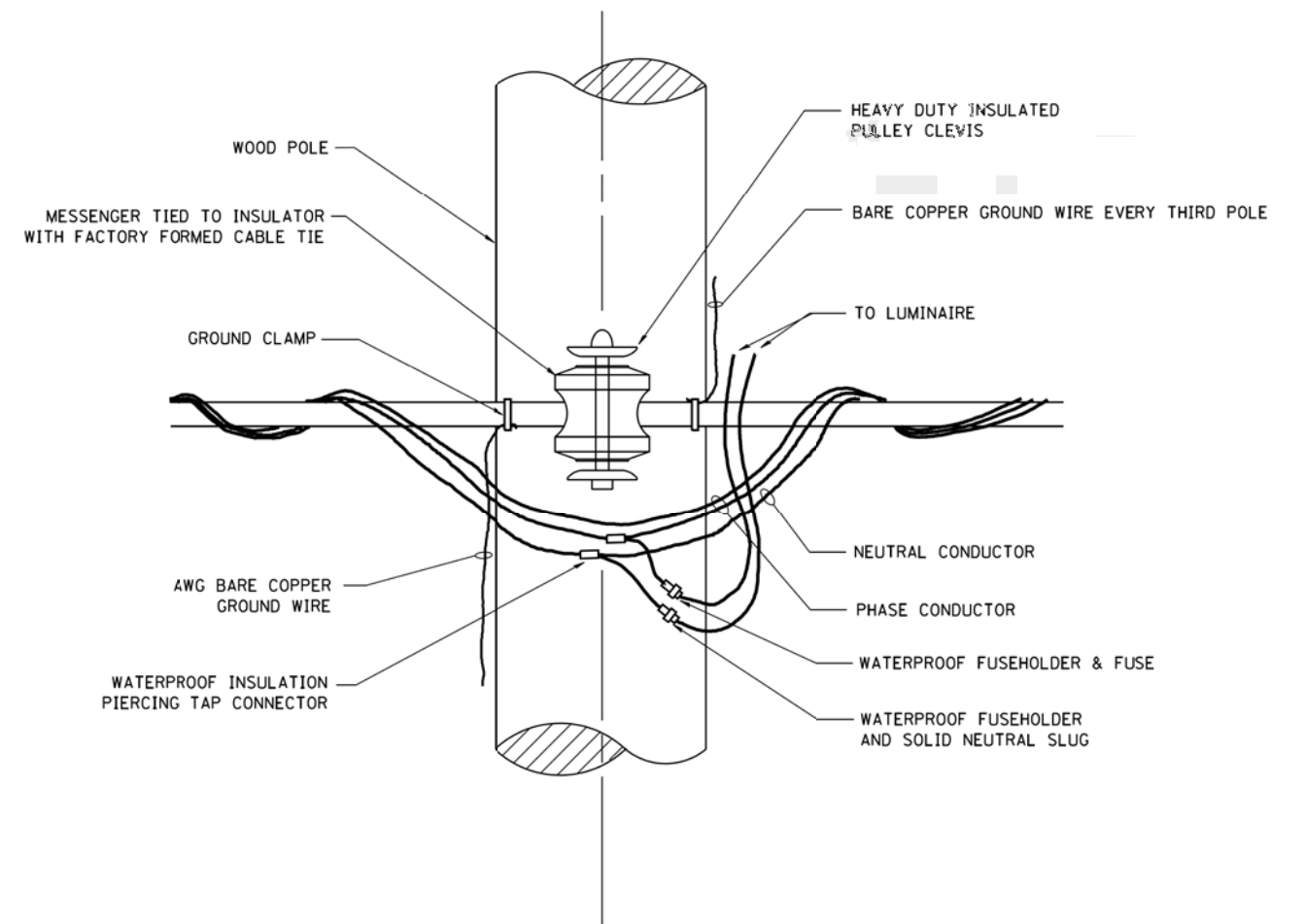
TYPICAL WIRING IN TRENCH DETAIL

N.T.S.

FILE NAME = W:\dststd\22x34\be702.dgn	USER NAME = geglent	DESIGNED -	REVISED - 08-08-03	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	MISC. ELECTRICAL DETAILS SHEET A			F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN -	REVISED -		SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.	2014-065-R		184	133
		CHECKED -	REVISED -					BE-702		CONTRACT NO. 62A00		
		DATE -	REVISED -		FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT							



TEMPORARY LIGHT POLE DETAIL

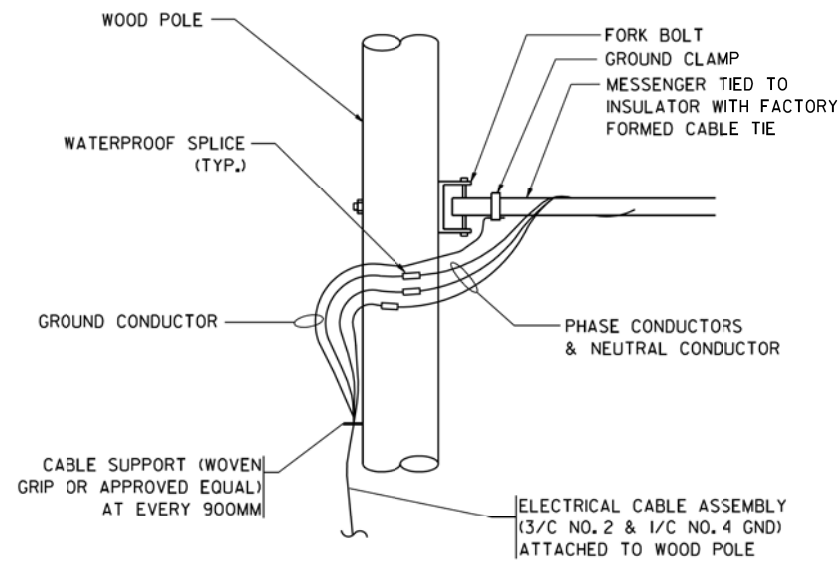


TEMPORARY LIGHT POLE ATTACHMENT DETAIL

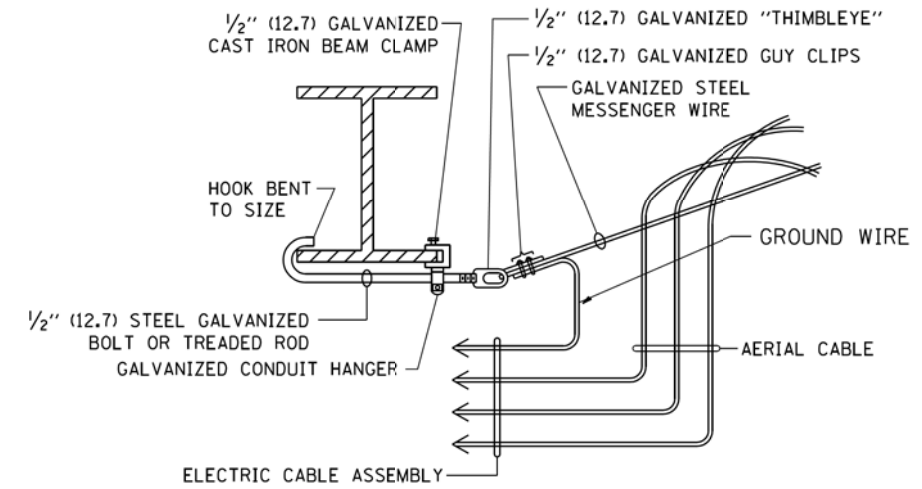
NOTES:

1. ALL DIMENSIONS IN INCHES (MILLIMETERS) UNLESS OTHERWISE INDICATED

FILE NAME = W:\dststd\22x34\be800.dgn	USER NAME = gegl1enobt	DESIGNED -	REVISED - 08-08-03	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TEMPORARY LIGHT POLE DETAILS			F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
	PLOT SCALE = 50.000' / IN.	DRAWN -	REVISED -		SCALE: NONE	SHEET NO. 1	OF 1 SHEETS	STA.	TO STA.	BE-800	CONTRACT NO. 62A00	184	134
	PLOT DATE = 1/4/2008	CHECKED -	REVISED -		FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT								
		DATE -	REVISED -										



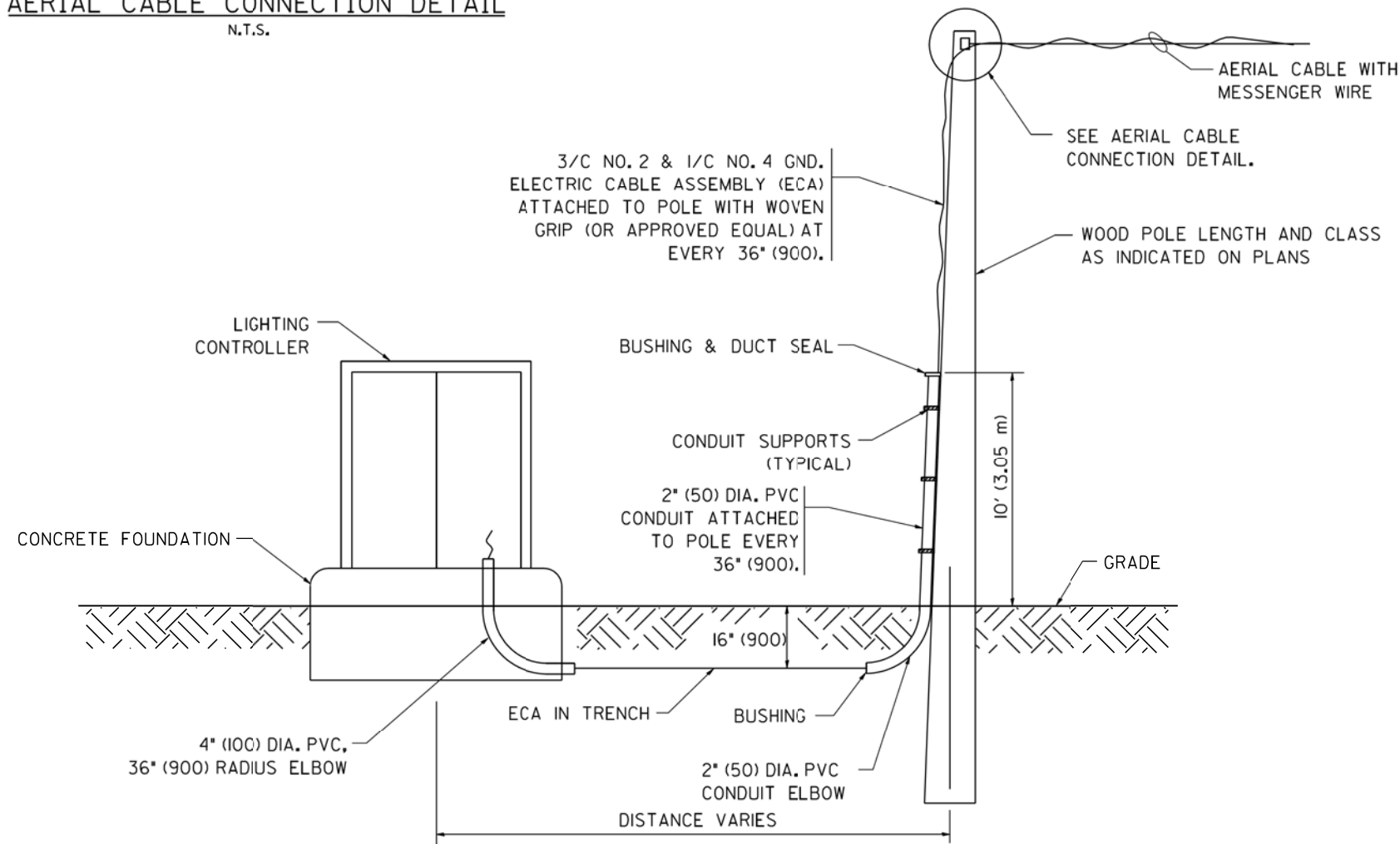
AERIAL CABLE CONNECTION DETAIL
N.T.S.



AERIAL CABLE ATTACHED TO STRUCTURE
NOT TO SCALE

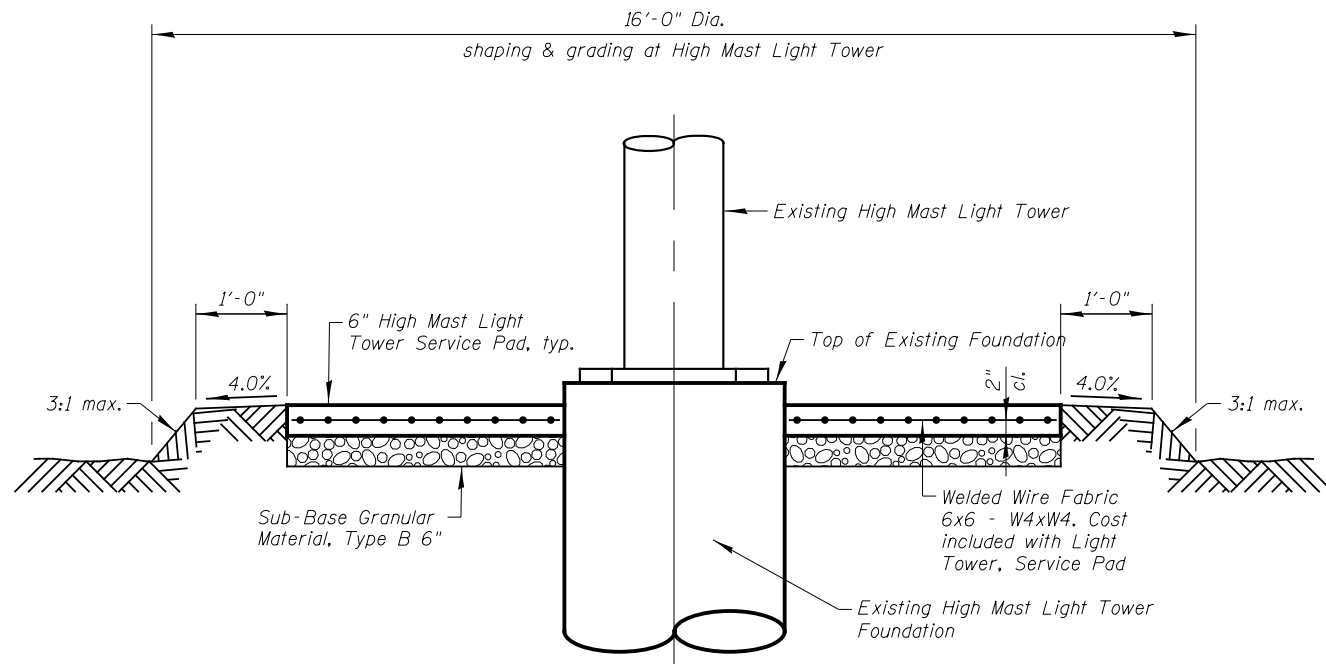
NOTES:

1. ALL DIMENSIONS IN INCHES (MILLIMETERS) UNLESS OTHERWISE INDICATED.
2. SEE PROPOSED LIGHTING PLAN FOR CONDUIT, CABLE AND ROUTING.
3. THE CONTRACTOR SHALL PROVIDE INTERMEDIATE SUPPORTS TO MAINTAIN MINIMUM CLEARANCES. REFER TO AERIAL AERIAL CABLE ATTACHED TO STRUCTURE DETAIL.
4. COST OF SPLICES AND MOUNTING HARDWARE SHALL BE INCLUDED IN THE UNIT PRICE FOR AERIAL CABLE.

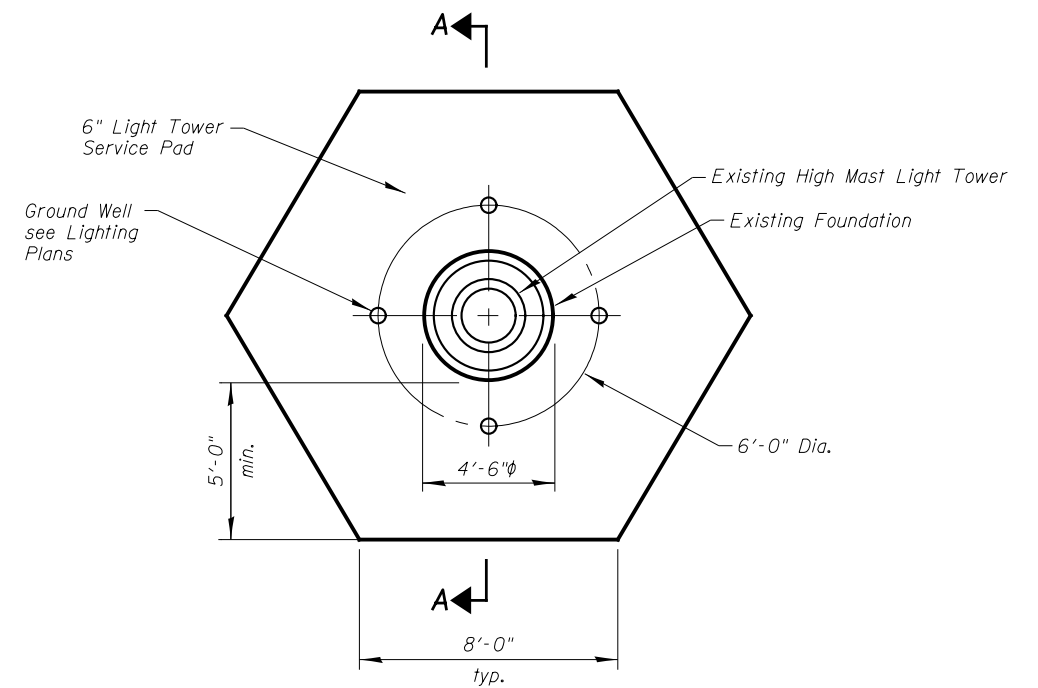


WOOD POLE TO LIGHTING CONTROLLER WIRING CONNECTION DETAIL
N.T.S.

FILE NAME = W:\dststd\22x34\be801.dgn	USER NAME = geglano	DESIGNED -	REVISED - 08-08-03	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TEMPORARY AERIAL CABLE INSTALLATION			F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN -	REVISED -		SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.	2014-065-R		184	135
		CHECKED -	REVISED -					BE-801		CONTRACT NO. 62A00		
		DATE -	REVISED -		FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT							



**FILL GRADING DETAIL
SECTION A-A**



**LIGHT TOWER SERVICE PAD
PLAN**

HIGH MAST LIGHT TOWER LOCATIONS

Light No.	Location		Pad Type	*Pad Elevation
	Station	From U.S. Rte. 6 to ⊙ High Mast Light Tower		
8-REF 1	206+93.	169' Lt.	Light Tower, Service Pad	542.75

*Pad Elevations must be verified prior to Construction

Notes:
The Light Tower & Light Tower Foundation was constructed as part of Contract 60X84. All remaining work including grading, fill, service pad (PPC Sidewalk) reinforcement shall be paid for at the Contract Unit Price per each for "Light Tower, Service Pad".
For Light Tower hand hole orientation, see installed tower.

FILE NAME = L:\7262\Contract 3\CADD Sheets\LIGHT PAD DETAILS\DI62400-most_foundation.dgn



USER NAME = IDOT	DESIGNED - B.N.S./J.W.	REVISED -
	CHECKED - J.W./B.N.S.	REVISED -
PLOT SCALE = 99.9999' / in.	DRAWN - F.M./B.K./J.V.	REVISED -
PLOT DATE = 1/19/2016	DATE - JANUARY 18, 2016	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**LIGHT TOWER SERVICE PAD DETAILS
U.S. RTE. 6 OVER F.A.I. RTE. 55**

SHEET NO. 1 OF 1 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	2014-065-R	WILL	184	136
				CONTRACT NO. 62A00
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

FILE NAME = L:\7262\Contract 3\CADD Sheets\LIGHT PAD DETAILS\DI62400-most wall details.dgn

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USER NAME = IDOT	DESIGNED - B.N.S./J.W.	REVISED -
	CHECKED - J.W./B.N.S.	REVISED -
PLOT SCALE = 99.9999' / in.	DRAWN - F.M./B.K./J.V.	REVISED -
PLOT DATE = 1/19/2016	DATE - JANUARY 18, 2016	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SHEET NO. 1 OF 1 SHEETS

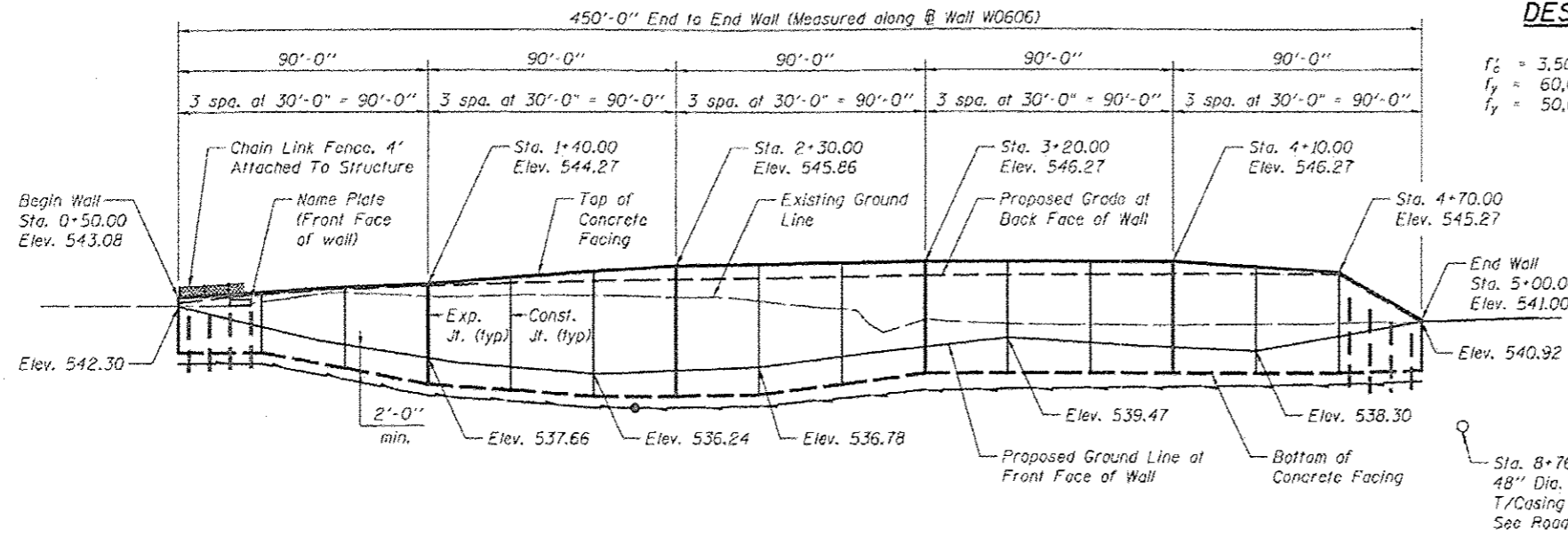
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	2014-065-R	WILL	184	137
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				CONTRACT NO. 62A00

Bench Mark: Square on concrete base of B.P. gas station sign, US Rte. 6 Sta. 204+40, 66' Rt., Elev. 543.51

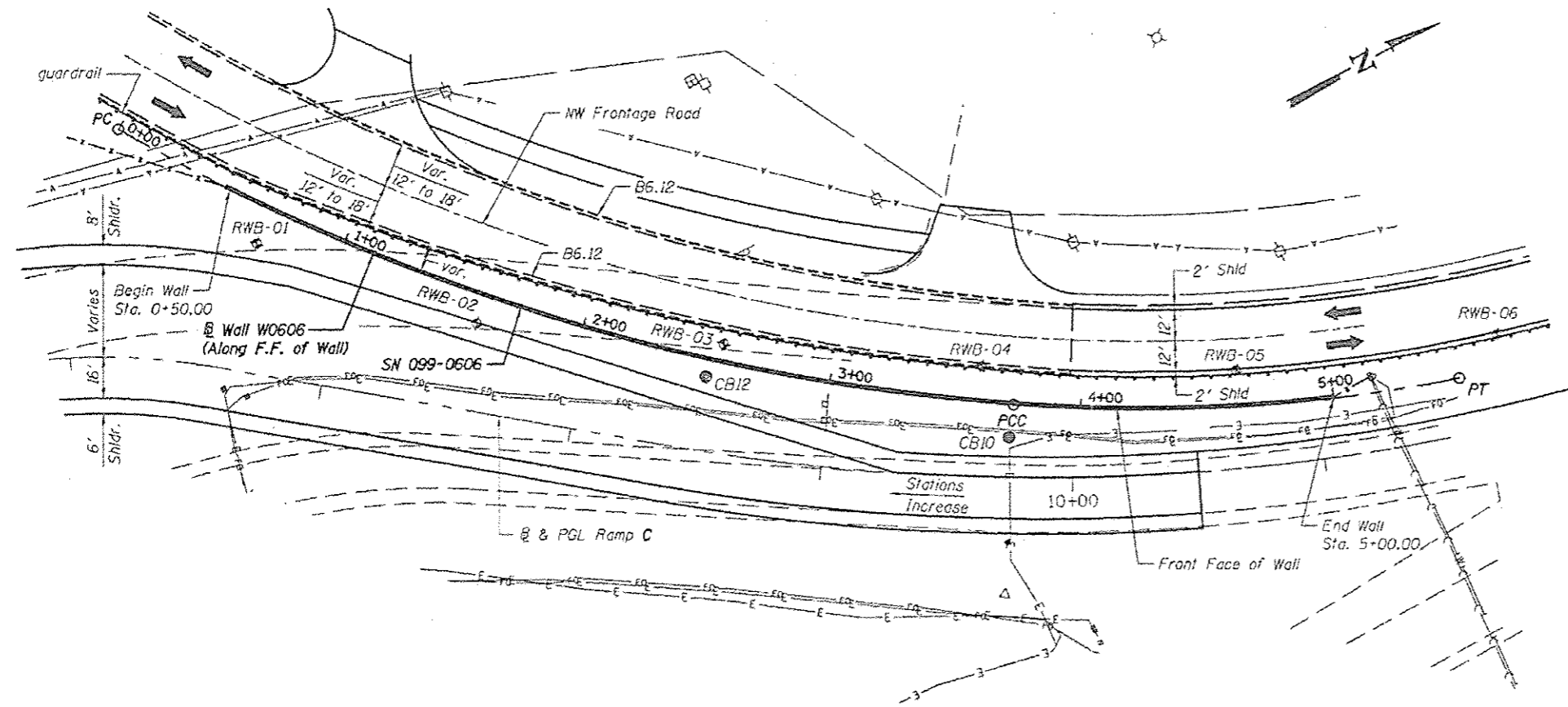
Existing Structure: None

Traffic to be maintained utilizing stage construction.

No Salvage.



ELEVATION



PLAN

DESIGN SPECIFICATIONS

AASHTO LRFD Design Bridge
Specification 7th Edition w/2015 Interims

DESIGN STRESSES

FIELD UNITS
 $f'_c = 3,500$ psi
 $f_y = 60,000$ psi (reinforcement)
 $f_y = 50,000$ psi (M270 Grade 50, Soldier Piles)

CURVE DATA

Curve	Delta	D	R	T	L	E	SE	TR	SE Run	PC STA.	PT STA.	PI STA.
@ Ramp C Curve PR-RC-1	$\Delta = 38^\circ 21' 30''$ (RT)	$D = 6^\circ 44' 26''$	$R = 850.01'$	$T = 295.65'$	$L = 569.06'$	$E = 49.95'$	$SE = 5.9\%$	TR = Match Existing	$SE\ Run = 183.78'$	PC STA. 5+90.26	PT STA. 11+59.32	PI STA. 8+85.92
@ Ramp C Curve PR-RC-2	$\Delta = 67^\circ 25' 13''$ (LT)	$D = 22^\circ 55' 06''$	$R = 250.00'$	$T = 166.79'$	$L = 294.18'$	$E = 50.53'$	$SE = 3.0\%$	TR = N/A	$SE\ Run = 93.45'$	PC STA. 13+44.15	PT STA. 16+38.32	PI STA. 15+10.94
@ Wall W0606 Curve W0606-1	$\Delta = 25^\circ 52' 48''$ (LT)	$D = 6^\circ 55' 53''$	$R = 826.62'$	$T = 189.93'$	$L = 373.38'$	$E = 21.54'$	$SE = N/A$			PC STA. 0+00.00	PT STA. 3+73.38	PI STA. 1+89.93
@ Wall W0606 Curve W0606-2	$\Delta = 15^\circ 00' 47''$ (LT)	$D = 8^\circ 28' 04''$	$R = 676.63'$	$T = 89.16'$	$L = 177.29'$	$E = 5.85'$	$SE = N/A$			PC STA. 3+73.38	PT STA. 5+50.67	PI STA. 4+62.54

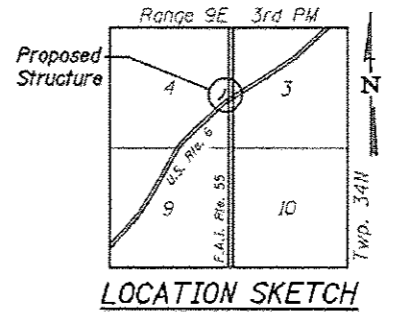
@ Wall W0606
(Offsets from @ Ramp C to F.F. of wall)
 Curve W0606-1
 PC Sta. 0+00.00 - @ Wall W0606 = Sta. 13+82.51, 89.28' Rt. - @ Ramp C
 PCC Sta. 3+73.38 - @ Wall W0606 = Sta. 10+23.63, 28.40' Rt. - @ Ramp C
 Curve W0606-2
 PCC Sta. 3+73.38 - @ Wall W0606 = Sta. 10+23.63, 28.40' Rt. - @ Ramp C
 PT Sta. 5+50.67 - @ Wall W0606 = Sta. 8+41.21, 22.03' Rt. - @ Ramp C

Notes:
 Retaining wall to be built along straight chords between construction joints.
 Pipe underdrain to outlet to CB12. See Roadway Plans additional drainage details.

APPROVED
 For Structural Adequacy Only
William P. Murphy
 Engineer of Bridges & Structures



William P. Murphy
 WILLIAM P. MURPHY
 LICENSED STRUCTURAL ENGINEER
 STATE OF ILLINOIS LIC. No. 081-004491
 EXPIRES: 11-30-16



GENERAL PLAN & ELEVATION
 NW FRONTAGE ROAD
 FAI 55 SEC. 2014-065-R
 WILL COUNTY
 RAMP C STATION 13+48 TO 8+93
 STRUCTURE NO. 099-0606

FILE NAME = L:\2762\Contract_37C400_Sheets\Reinforcing Wall\AS\099-0606\ENR\099-0606-501-CPE.dwg

	USER NAME = IDOT	DESIGNED - B.N.S./J.W.	REVISED - 3/2/2016	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	GENERAL PLAN & ELEVATION STRUCTURE NO. 099-0606 SHEET NO. 1 OF 12 SHEETS	F.A.I. RTE. 55	SECTION 2014-065-R	COUNTY WILL	TOTAL SHEETS 184	SHEET NO. 138
	PLOT SCALE = 56.9:0.0000 1" = 100'	CHECKED - J.W./B.N.S.	REVISED -			CONTRACT NO. 62A00				
	DATE = 1/18/2016	DRAWN - F.M.	REVISED -			ILLINOIS FED. AID PROJECT				
		DATE - 1/18/2016	REVISED -							

GENERAL NOTES

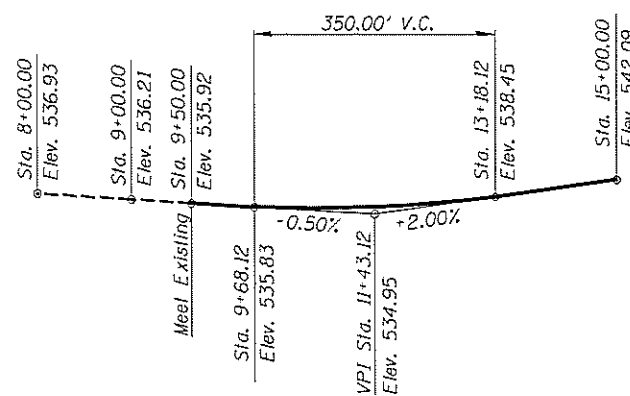
1. Reinforcement bars designated (E) shall be epoxy coated.
2. The Contractor is responsible for the design and performance of the lagging using no less than 3" nominal rough-sawn thickness and timber with a minimum allowable bending stress of 1000 psi.
3. Protective coat shall be applied to exposed surfaces of the front face, back face and top of wall.

TOTAL BILL OF MATERIAL

ITEM	UNIT	TOTAL
Structure Excavation	Cu. Yd.	324.0
Concrete Structures	Cu. Yd.	164.0
Protective Coat	Sq. Yd.	398.0
Stud Shear Connectors	Each	704
Reinforcement Bars, Epoxy Coated	Pound	19710
Pile Shoes	Each	60
Name Plates	Each	1
Furnishing Soldier Piles (HP Section)	Foot	1324.0
Driving Soldier Piles	Foot	1251.0
Untreated Timber Lagging	Sq. Ft.	3266.0
Geocomposite Wall Drain	Sq. Yd.	243.0
Pipe Underdrains for Structures 4"	Foot	490.0
Chain Link Fence, 4' Attached To Structure	Foot	450.0

INDEX OF SHEETS

1. General Plan & Elevation
2. General Data
3. Typical Section
4. Details
5. Soldier Pile Layout 1
6. Soldier Pile Layout 2
7. Concrete Facing 1
8. Concrete Facing 2
9. Concrete Facing 3
10. Concrete Facing & Details
11. Boring Logs 1
12. Boring Logs 2



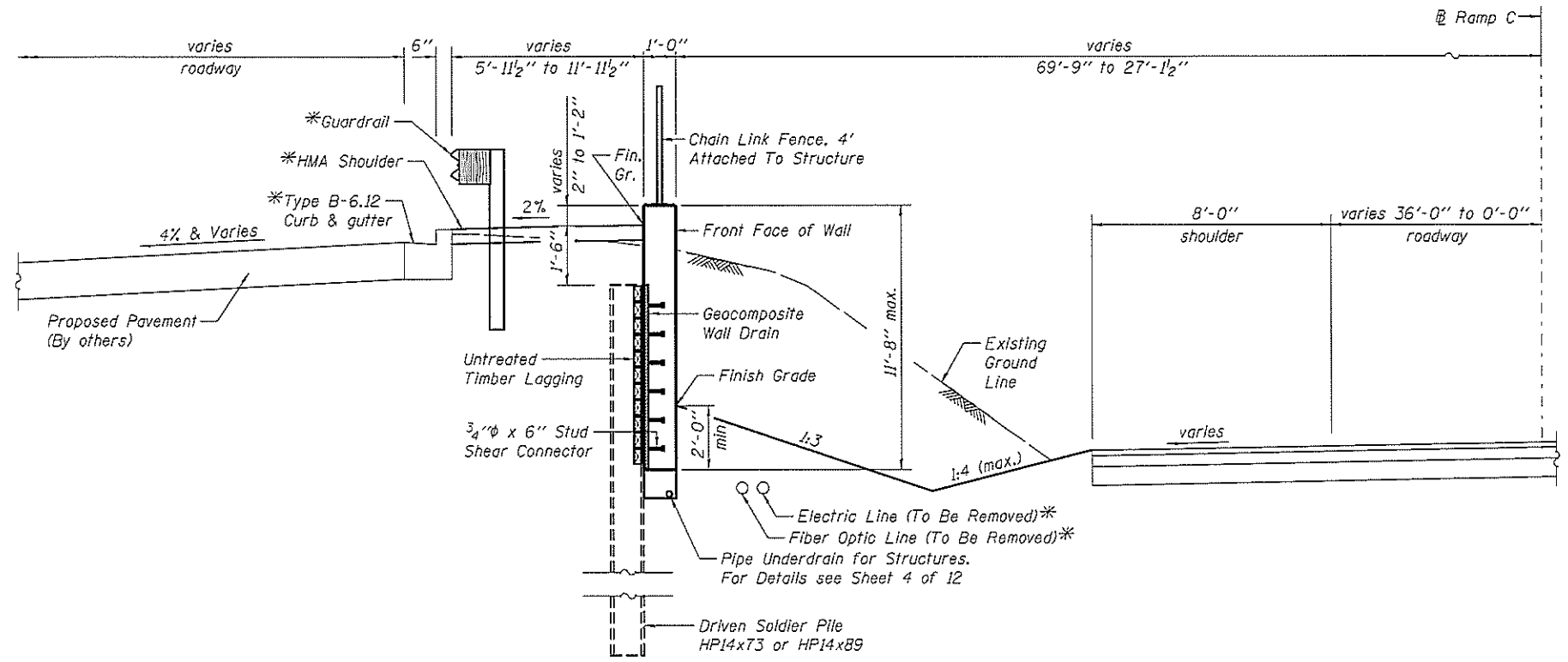
PROFILE GRADE - RAMP C
(along PGL)

STATION 13+48 TO 8+93
BUILT 20 BY
STATE OF ILLINOIS
F.A.I. RTE. 55 SEC. 2014-065-R
LOADING HL-93
STRUCTURE NO. 099-0606

NAME PLATES
See Std. 515001

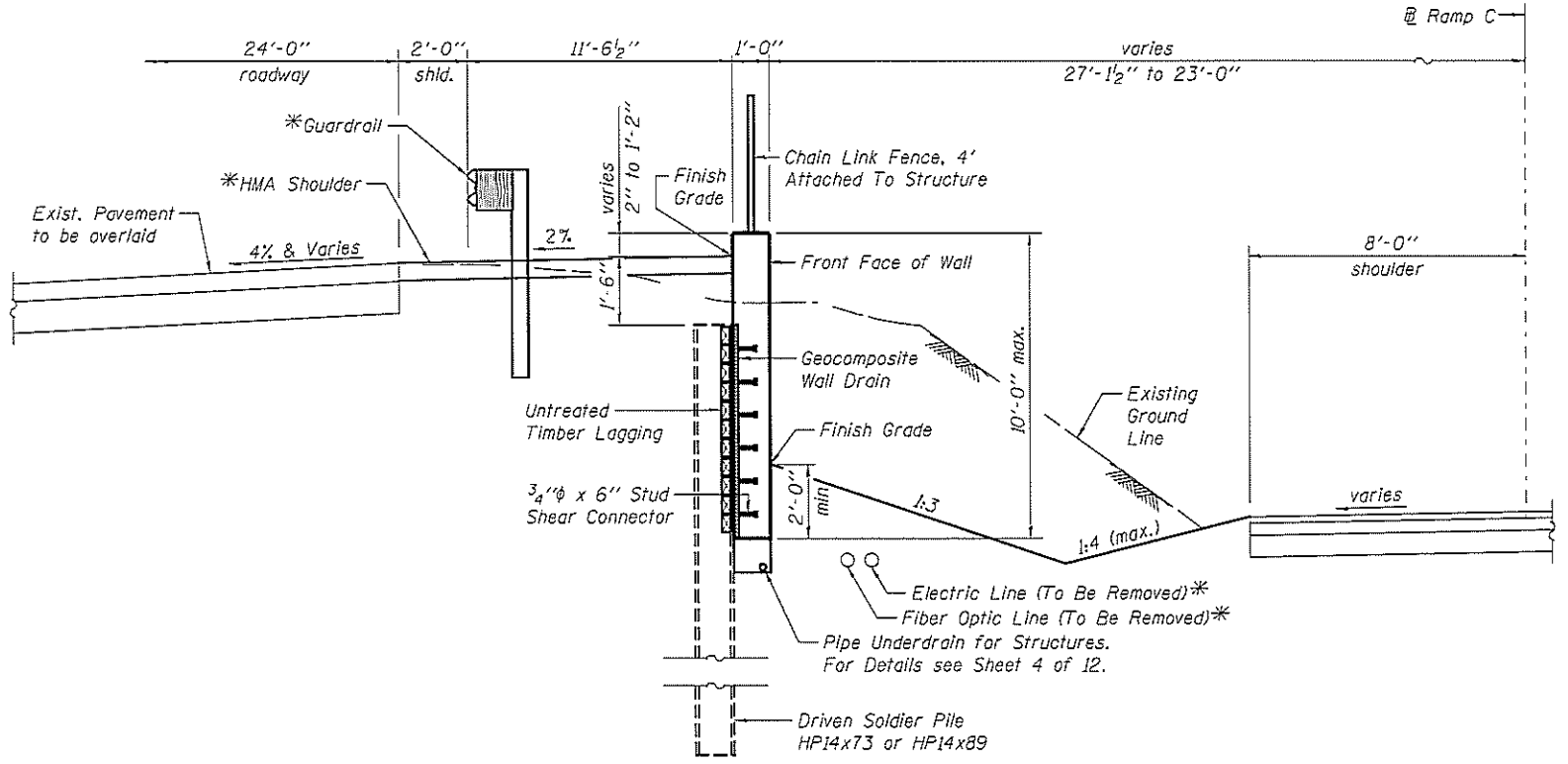
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	PLOT SCALE = 12x0.3000 1" = 12'	CHECKED - J.W./B.N.S.	REVISED -			CONTRACT NO. 62A00				
	PLOT DATE = 4/21/2016	DRAWN - F.M.	REVISED -			ILLINOIS FED. AID PROJECT				
		DATE - 1/18/2016	REVISED -							



WALL SECTION

Sta. 0+50.00 to Sta. 3+95.00
(Looking North)



WALL SECTION

Sta. 3+95.00 to Sta. 5+00.00
(Looking North)

Suggested Sequence of Construction

1. Locate existing electric and fiber optic lines.
2. Drive steel HP piles.
3. Excavate in front of wall and install timber lagging.
4. Remove electric and fiber optic line.
5. Place pipe underdrain.
6. Construct concrete facing.
7. Install Chain Link Fence.
8. Place HMA shoulder.
9. Core HMA shoulder for guardrail posts and install guardrail.

*See Roadway Plans

FILE NAME = L:\17262\Contract_3\CAD\Drawings\Recomming_Vall\15\SN 019-06666\SN0990606-S93-Typical_Section.dgn

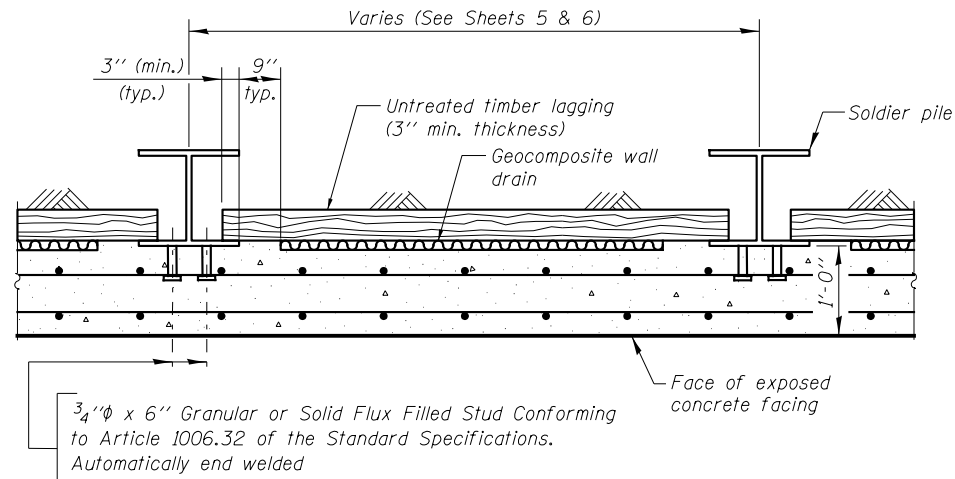


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PLLOT DATE = 4/21/2016	DRAWN - F.M.	REVISED -
	DATE - 1/18/2016	REVISED -

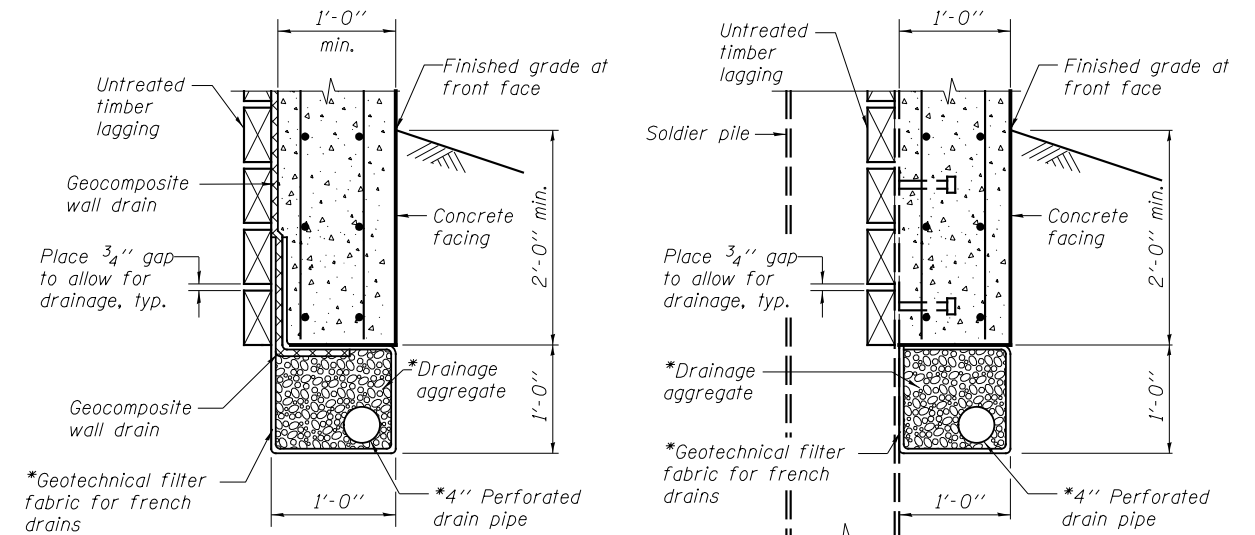
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TYPICAL SECTION
STRUCTURE NO. 099-0606
SHEET NO. 3 OF 12 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	2014-065-R	WILL	184	140
CONTRACT NO. 62A00			ILLINOIS FED. AID PROJECT	



SECTION THRU DRILLED SOLDIER PILE WALL



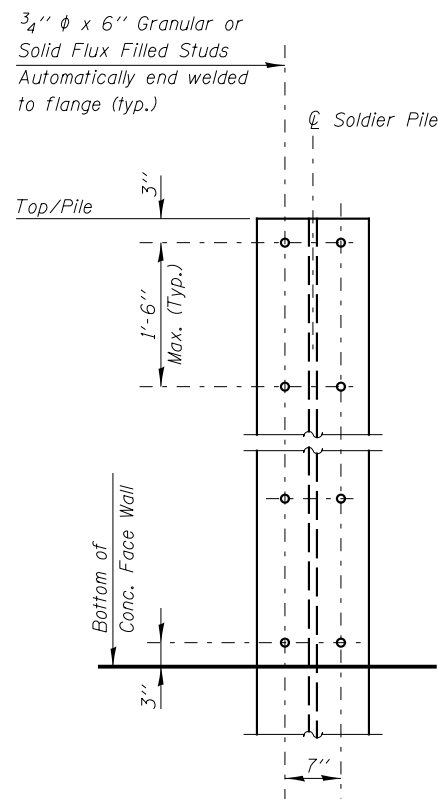
BETWEEN SOLDIER PILES

AT SOLDIER PILES

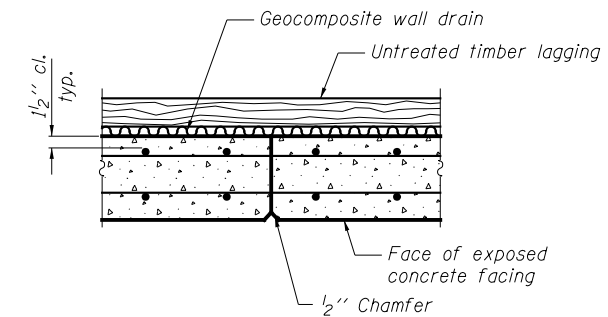
PIPE UNDERDRAIN DETAIL

*Included in the cost of "Pipe Underdrains for Structures, 4" "

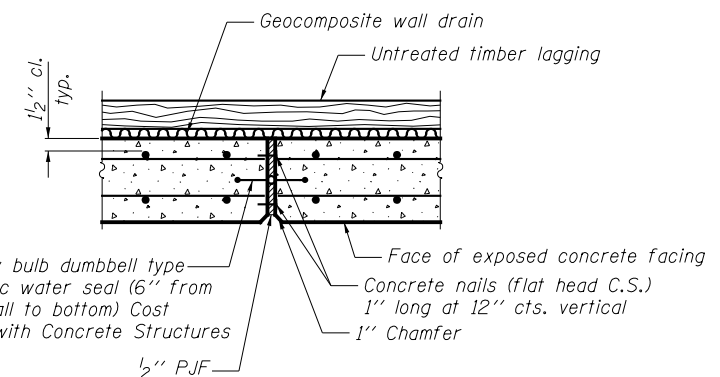
For pipe underdrain to outlet to CB12, see Roadway Plans.



STUD SHEAR CONNECTORS LAYOUT



CONSTRUCTION JOINT DETAIL



EXPANSION JOINT DETAIL

FILE NAME = L:\7262\Contract 3\CADD Sheets\Retaining Walls\SN 099-0606\SN0990606-S04-Details.dgn



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PLOT DATE = 3/2/2016	DRAWN - F.M.	REVISED -
	DATE - 1/18/2016	REVISED -

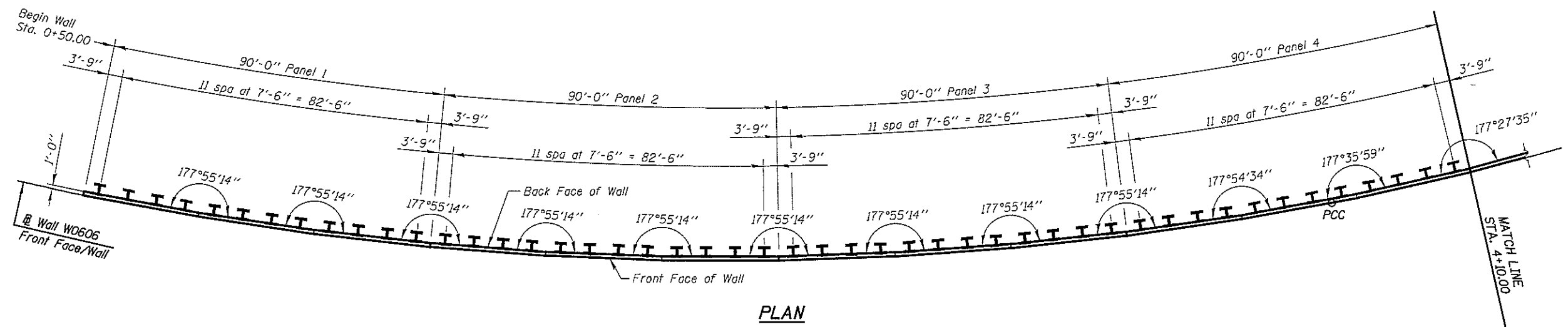
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DETAILS
STRUCTURE NO. 099-0606

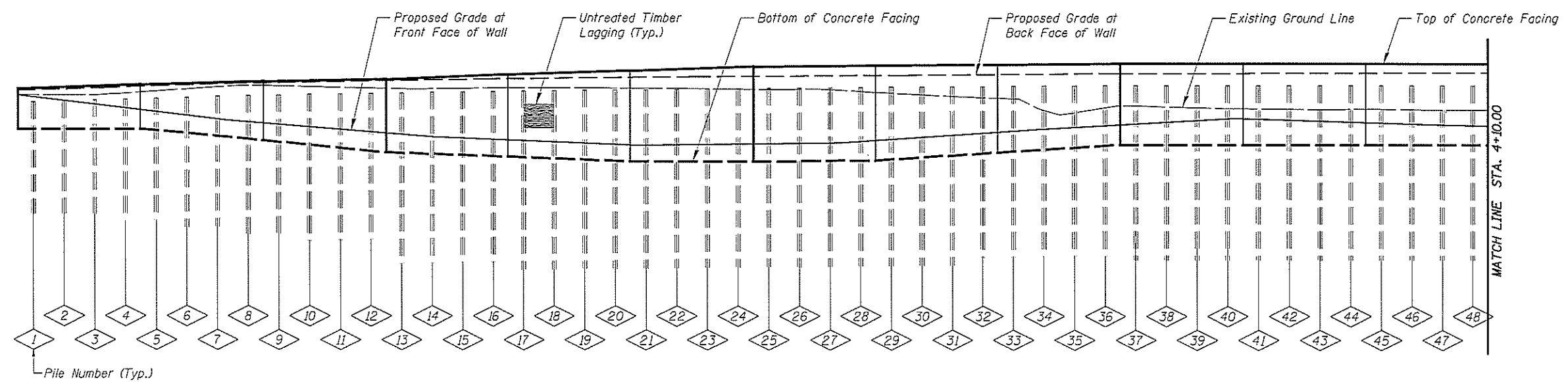
SHEET NO. 4 OF 12 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	2014-065-R	WILL	184	141
CONTRACT NO. 62A00				

ILLINOIS FED. AID PROJECT



PLAN



DEVELOPED ELEVATION

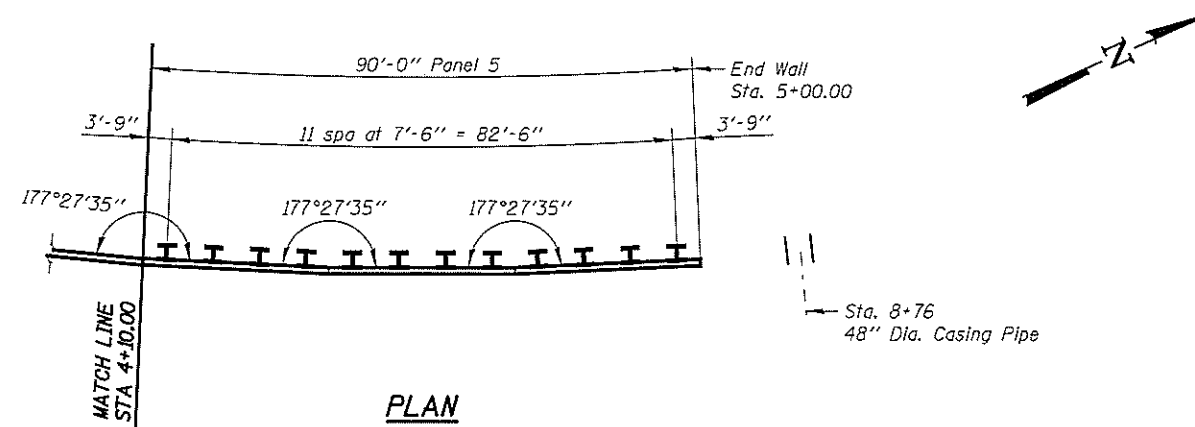
PILE SUMMARY

- Notes:
 1. Dimensions measured along @ Wall W0606
 2. See Sheet 6 of 12 for Bill of Material.

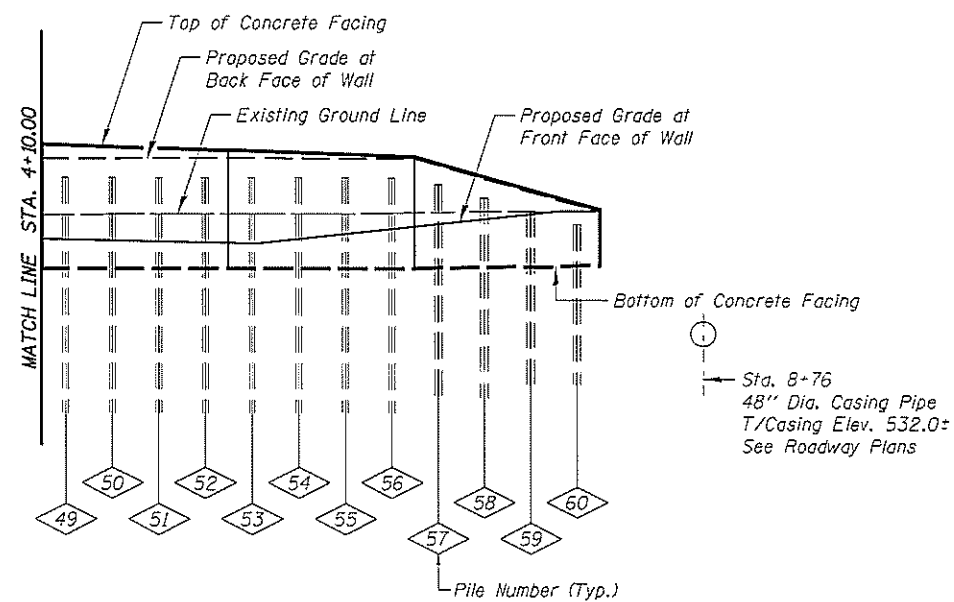
Pile No.	Station @ W0606	Pile Designation	Length	Top Elevation	Bottom Elevation	No. of Studs	Pile No.	Station @ W0606	Pile Designation	Length	Top Elevation	Bottom Elevation	No. of Studs	Pile No.	Station @ W0606	Pile Designation	Length	Top Elevation	Bottom Elevation	No. of Studs	Pile No.	Station @ W0606	Pile Designation	Length	Top Elevation	Bottom Elevation	No. of Studs
1	0+53.75	HP 14x73	13.00	541.48	528.48	6	13	1+43.75	HP 14x89	22.00	542.63	520.63	12	25	2+33.75	HP 14x89	28.00	543.21	515.21	14	37	3+23.75	HP 14x73	22.00	543.60	521.60	12
2	0+61.25	HP 14x73	13.00	541.60	528.60	6	14	1+51.25	HP 14x89	23.00	542.70	519.70	12	26	2+41.25	HP 14x89	28.00	543.25	515.25	14	38	3+31.25	HP 14x73	22.00	543.60	521.60	12
3	0+68.75	HP 14x73	13.00	541.73	528.73	8	15	1+58.75	HP 14x89	24.00	542.76	518.76	12	27	2+48.75	HP 14x89	28.00	543.28	515.28	14	39	3+38.75	HP 14x73	22.00	543.60	521.60	12
4	0+76.25	HP 14x73	14.00	541.85	527.85	8	16	1+66.25	HP 14x89	25.00	542.82	517.82	12	28	2+56.25	HP 14x89	28.00	543.32	515.32	14	40	3+46.25	HP 14x73	22.00	543.60	521.60	12
5	0+83.75	HP 14x73	14.00	541.97	527.97	8	17	1+73.75	HP 14x89	25.00	542.87	517.87	14	29	2+63.75	HP 14x89	27.00	543.35	516.35	14	41	3+53.75	HP 14x73	22.00	543.60	521.60	12
6	0+91.25	HP 14x73	15.00	542.07	527.07	8	18	1+81.25	HP 14x89	26.00	542.92	516.92	14	30	2+71.25	HP 14x89	26.00	543.38	517.38	14	42	3+61.25	HP 14x73	22.00	543.60	521.60	12
7	0+98.75	HP 14x73	16.00	542.18	526.18	8	19	1+88.75	HP 14x89	27.00	542.96	515.96	14	31	2+78.75	HP 14x89	25.00	543.41	518.41	14	43	3+68.75	HP 14x73	22.00	543.60	521.60	12
8	1+06.25	HP 14x73	17.00	542.28	525.28	10	20	1+96.25	HP 14x89	28.00	543.00	515.00	14	32	2+86.25	HP 14x89	25.00	543.45	518.45	14	44	3+76.25	HP 14x73	22.00	543.60	521.60	12
9	1+13.75	HP 14x73	18.00	542.37	524.37	10	21	2+03.75	HP 14x89	28.00	543.05	515.05	14	33	2+93.75	HP 14x89	24.00	543.48	519.48	14	45	3+83.75	HP 14x73	22.00	543.60	521.60	12
10	1+21.25	HP 14x73	19.00	542.43	523.43	10	22	2+11.25	HP 14x89	28.00	543.09	515.09	14	34	3+01.25	HP 14x89	23.00	543.52	520.52	12	46	3+91.25	HP 14x73	22.00	543.60	521.60	12
11	1+28.75	HP 14x73	20.00	542.50	522.50	12	23	2+18.75	HP 14x89	28.00	543.13	515.13	14	35	3+08.75	HP 14x89	23.00	543.55	520.55	12	47	3+98.75	HP 14x73	22.00	543.60	521.60	12
12	1+36.25	HP 14x73	21.00	542.57	521.57	12	24	2+26.25	HP 14x89	28.00	543.17	515.17	14	36	3+16.25	HP 14x89	22.00	543.59	521.59	12	48	4+06.25	HP 14x73	22.00	543.60	521.60	12

FILE NAME = L:\V262\Contract_3\CAADD_Sheets\Retaining Walls\SN 099-0606\SN0990606-5905-Soldier-Pile_layout1.dgn

	USER NAME = IDOT	DESIGNED - B.N.S./J.W.	REVISED - 4/21/2016	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SOLDIER PILE LAYOUT 1 STRUCTURE NO. 099-0606	F.A.I. RTE. 55	SECTION 2014-065-R	COUNTY WILL	TOTAL SHEETS 184	SHEET NO. 142	
	PLT SCALE = 28:0.8808 '1" = 100'	CHECKED - J.W./B.N.S.	REVISED -			SHEET NO. 5 OF 12 SHEETS			CONTRACT NO. 62A00		
	PLT DATE = 4/21/2016	DRAWN - F.M.	REVISED -			ILLINOIS FED. AID PROJECT					
		DATE - 1/18/2016	REVISED -								



PLAN



DEVELOPED ELEVATION

Notes:
1. Dimensions measured along @ Wall W0606

PILE SUMMARY

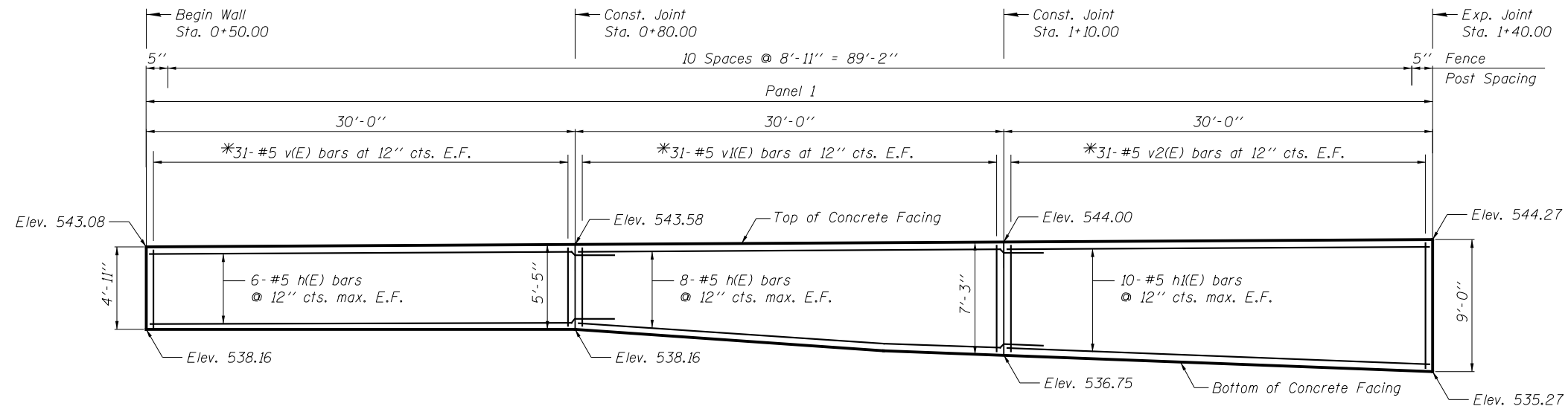
Pile No.	Station @ W0606	Pile Designation	Length	Top Elevation	Bottom Elevation	No. of Studs
49	4+13.75	HP 14x73	22.00	543.60	521.60	12
50	4+21.25	HP 14x73	22.00	543.60	521.60	12
51	4+28.75	HP 14x73	22.00	543.60	521.60	12
52	4+36.25	HP 14x73	22.00	543.60	521.60	12
53	4+43.75	HP 14x73	22.00	543.60	521.60	12
54	4+51.25	HP 14x73	22.00	543.60	521.60	12
55	4+58.75	HP 14x73	22.00	543.60	521.60	12
56	4+66.25	HP 14x73	22.00	543.60	521.60	12
57	4+73.75	HP 14x73	21.00	543.07	522.07	12
58	4+81.25	HP 14x73	19.00	542.00	523.00	10
59	4+88.75	HP 14x73	17.00	540.93	523.93	8
60	4+96.25	HP 14x73	15.00	539.87	524.87	6

BILL OF MATERIAL

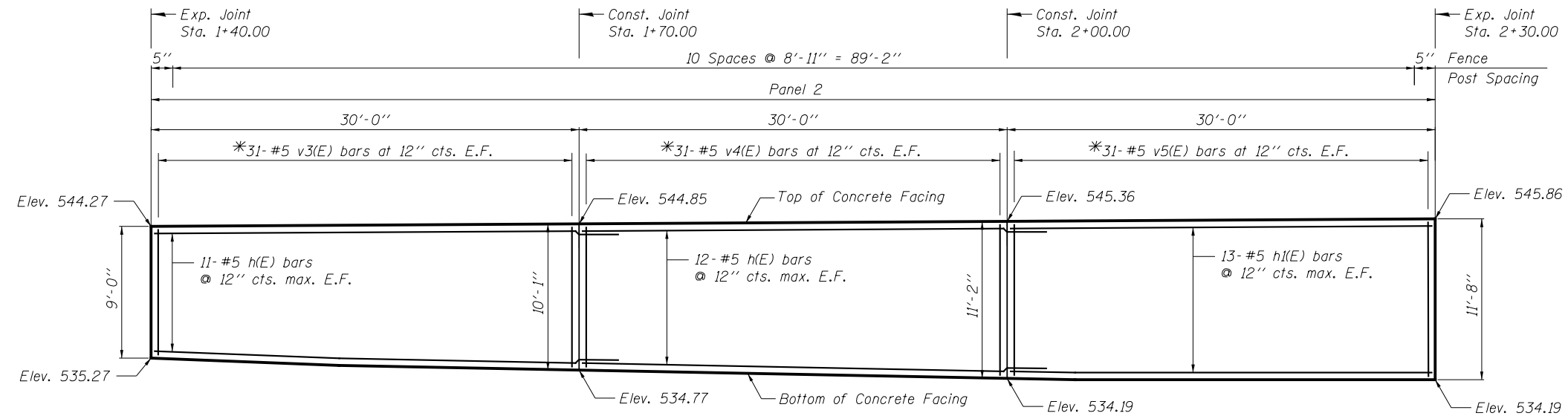
Item	Unit	Quantity
Stud Shear Connectors	Each	704
Geocomposite Wall Drain	Sq. Yd.	243.0
Untreated Timber Lagging	Sq. Ft.	3266.0
Driving Soldier Piles	Foot	1251.0
Pile Shoes	Each	60
Furnishing Soldier Piles (HP Section)	Foot	1324.0

FILE NAME = L:\7282\Contract_3\CADD_Sheets\Reinforcing_Walls\ASB_0919-0606\SN09190606-506-SoldierPile_layout2.dgn

	USER NAME = IDOT	DESIGNED - B.N.S./J.W.	REVISED - 4/21/2016	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SOLDIER PILE LAYOUT 2 STRUCTURE NO. 099-0606	F.A.I. RTE. 55	SECTION 2014-065-R	COUNTY WILL	TOTAL SHEETS 184	SHEET NO. 143	
	PLOT SCALE = 22:0.0000 '1" = 22'	CHECKED - J.W./B.N.S.	REVISED -			SHEET NO. 6 OF 12 SHEETS	CONTRACT NO. 62A00				
	PLOT DATE = 4/21/2016	DRAWN - F.M.	REVISED -				ILLINOIS FED. AID PROJECT				
		DATE - 1/18/2016	REVISED -								



ELEVATION
(Looking west)



ELEVATION
(Looking west)

Notes:

Minimum lap for #5 bar is 3'-8".

Space reinforcement in wall to miss shear studs.

* signifies cut bar. Order per length on Bill of Material. Cut as shown in Cutting Diagram and use half of bars in each face.

See Sheet 10 of 12 for Concrete Facing Details and Bill of Material.

FILE NAME = L:\7262\Contract 3\CADD Sheets\Retaining Walls\SN 099-0606\SN0990606-507-ConcreteFacing.dgn



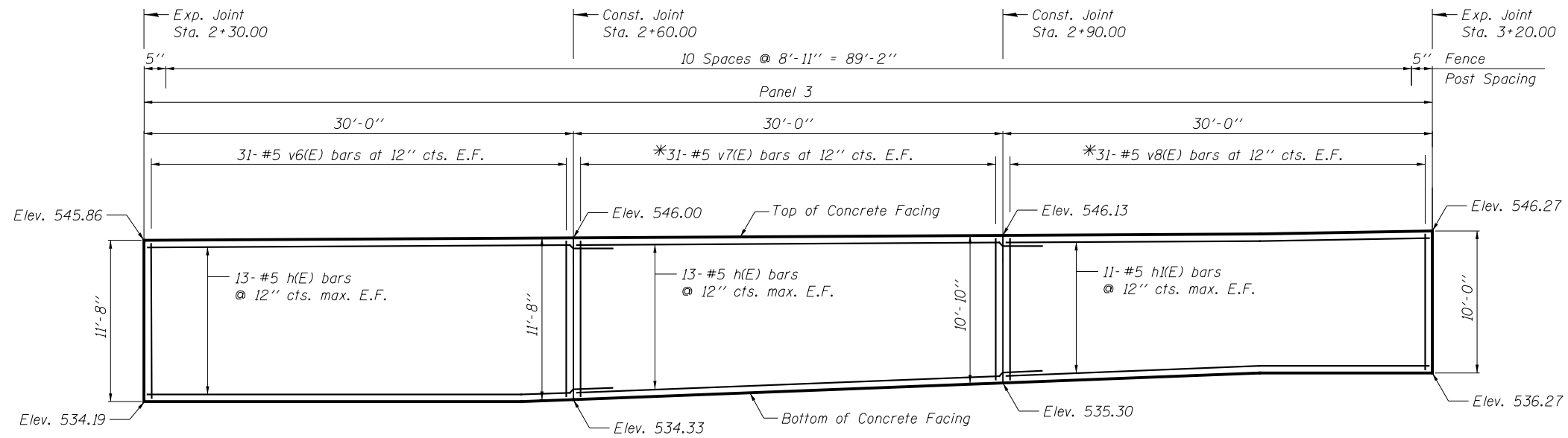
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	CHECKED - J.W./B.N.S.	REVISED -
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PLOT DATE = 3/2/2016	DATE - 1/18/2016	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

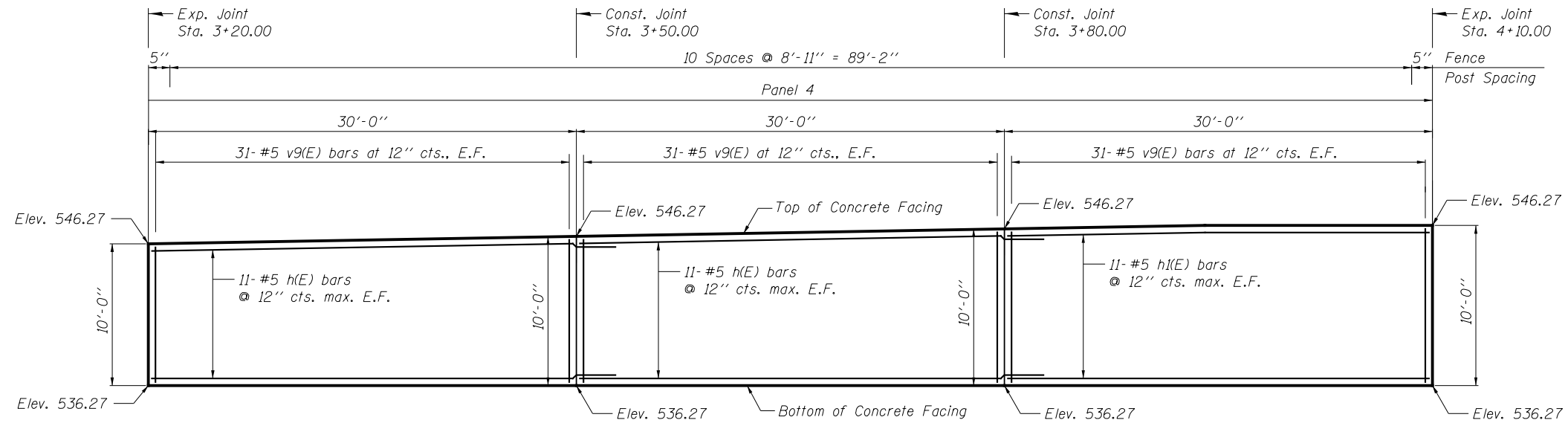
**CONCRETE FACING 1
STRUCTURE NO. 099-0606**

SHEET NO. 7 OF 12 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	2014-065-R	WILL	184	144
CONTRACT NO. 62A00			ILLINOIS FED. AID PROJECT	



ELEVATION
(Looking west)



ELEVATION
(Looking west)

Notes:

Minimum lap for #5 bar is 3'-8".

Space reinforcement in wall to miss shear studs.

* signifies cut bar. Order per length on Bill of Material. Cut as shown in Cutting Diagram and use half of bars in each face.

See Sheet 10 of 12 for Concrete Facing Details and Bill of Material.

FILE NAME = L:\7262\Contract 3\CADD Sheets\Retaining Walls\SN 099-0606\SN0990606-509-ConcreteFacing2.dgn



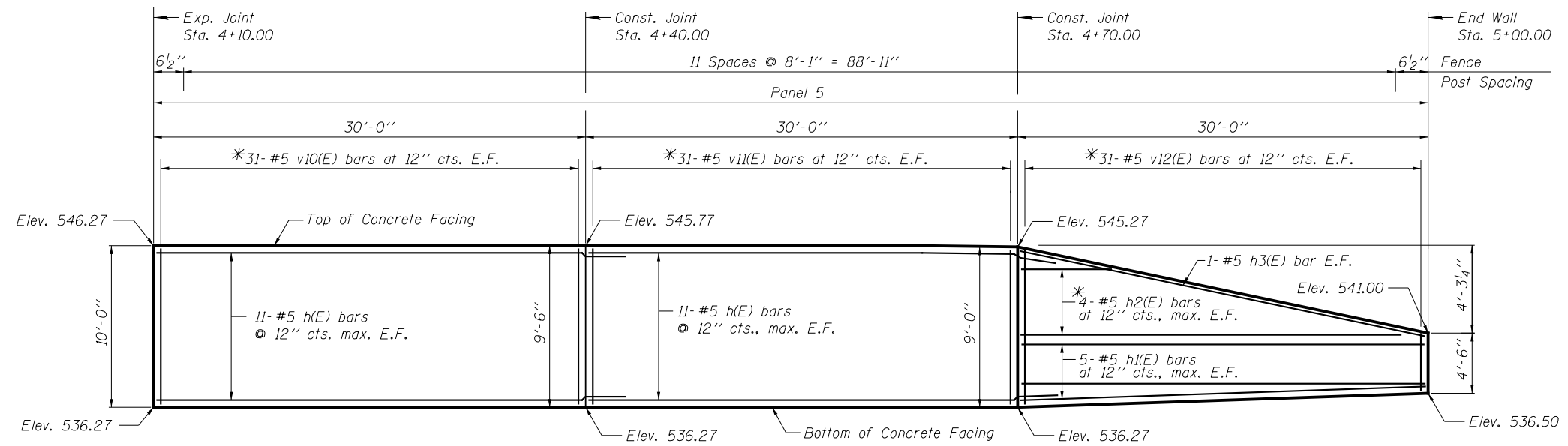
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	CHECKED - J.W./B.N.S.	REVISED -
PLOT SCALE = 1/8"=1'-0"	DRAWN - F.M.	REVISED -
PLOT DATE = 3/2/2016	DATE - 1/18/2016	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**CONCRETE FACING 2
STRUCTURE NO. 099-0606**

SHEET NO. 8 OF 12 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	2014-065-R	WILL	184	145
CONTRACT NO. 62A00			ILLINOIS FED. AID PROJECT	



ELEVATION
(Looking west)

Notes:

Minimum lap for #5 bar is 3'-8".

Space reinforcement in wall to miss shear studs.

* signifies cut bar. Order per length on Bill of Material. Cut as shown in Cutting Diagram and use half of bars in each face.

See Sheet 10 of 12 for Concrete Facing Details and Bill of Material.

FILE NAME = L:\7262\Contract 3\CADD Sheets\Retaining Walls\SN 099-0606\SN0990606-509-ConcreteFacing3.dgn



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	CHECKED - J.W./B.N.S.	REVISED -
PLOT SCALE = 10:0.0000 '1' / in.	DRAWN - F.M.	REVISED -
PLOT DATE = 3/2/2016	DATE - 1/18/2016	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**CONCRETE FACING 3
STRUCTURE NO. 099-0606**

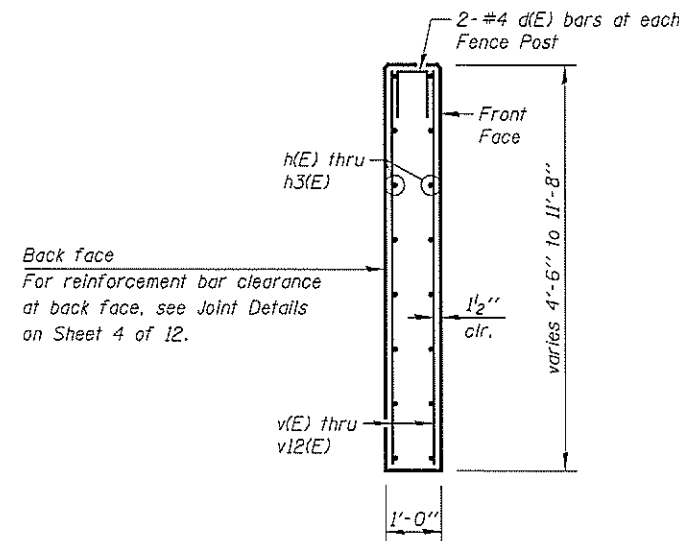
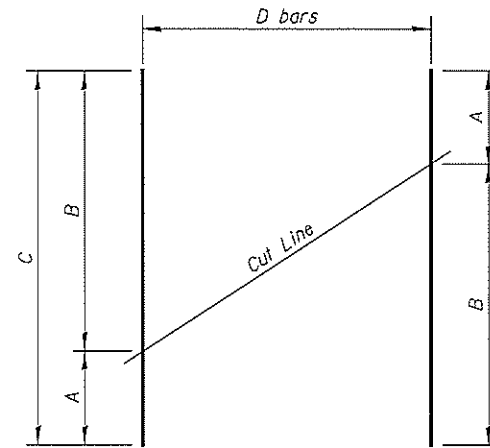
SHEET NO. 9 OF 12 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	2014-065-R	WILL	184	146
CONTRACT NO. 62A00			ILLINOIS FED. AID PROJECT	

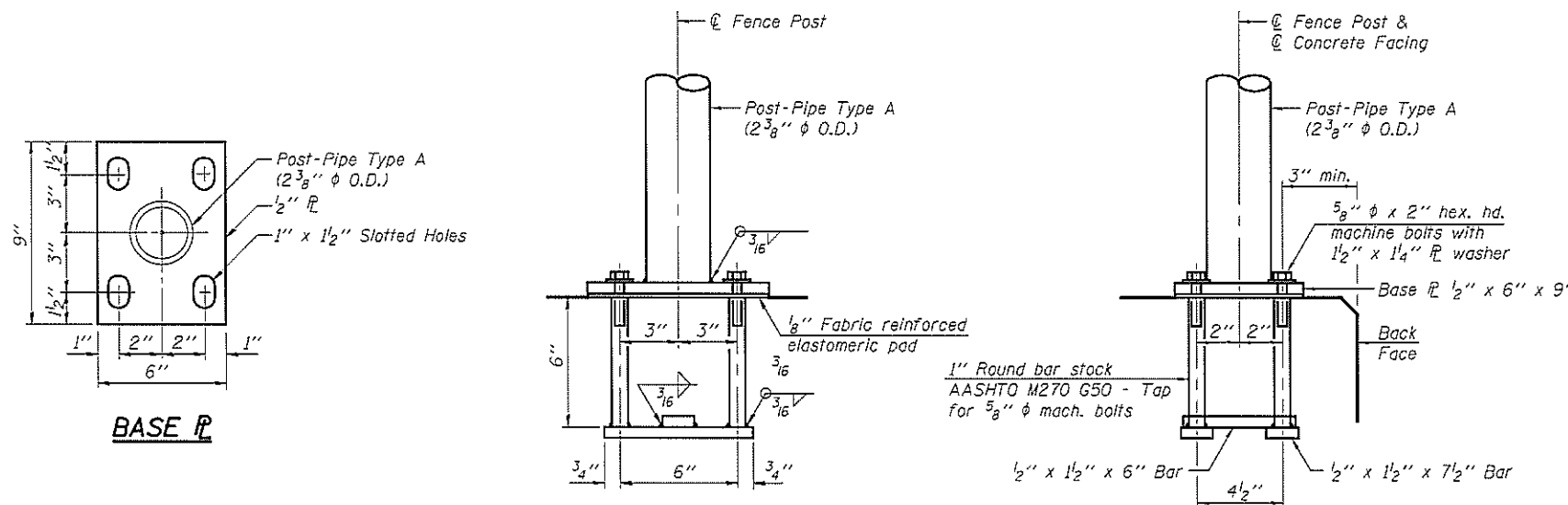
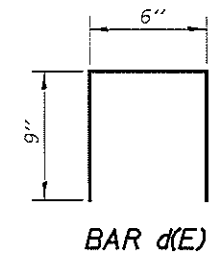
BILL OF MATERIAL

BAR	NO.	SIZE	LENGTH	SHAPE
d(E)	112	#4	2'-0"	□
h(E)	214	#5	33'-8"	—
h1(E)	100	#5	29'-9"	—
h2(E)	4	#5	30'-2"	—
h3(E)	2	#5	30'-0"	—
v(E)	31	#5	9'-8"	—
v1(E)	31	#5	12'-0"	—
v2(E)	31	#5	15'-7"	—
v3(E)	31	#5	18'-5"	—
v4(E)	31	#5	20'-7"	—
v5(E)	31	#5	22'-2"	—
v7(E)	31	#5	21'-10"	—
v8(E)	31	#5	20'-2"	—
v10(E)	31	#5	18'-10"	—
v11(E)	31	#5	17'-10"	—
v12(E)	31	#5	12'-10"	—
h2(E)	4	#5	30'-2"	—
Structure Excavation		Cu. Yd.	324.0	
Concrete Structures		Cu. Yd.	164.0	
Protective Coat		Sq. Yd.	398.0	
Reinforcement Bars, Epoxy Coated		Pound	19710	
Pipe Underdrains for Structures 4"		Foot	490.0	

BAR	A	B	C	D
v(E)	4'-7"	5'-1"	9'-8"	31
v1(E)	5'-1"	6'-11"	12'-0"	31
v2(E)	6'-11"	8'-8"	15'-7"	31
v3(E)	8'-8"	9'-9"	18'-5"	31
v4(E)	9'-9"	10'-10"	20'-7"	31
v5(E)	10'-10"	11'-4"	22'-2"	31
v7(E)	11'-4"	10'-6"	21'-10"	31
v8(E)	10'-6"	9'-8"	20'-2"	31
v10(E)	9'-8"	9'-2"	18'-10"	31
v11(E)	9'-2"	8'-8"	17'-10"	31
v12(E)	8'-8"	4'-2"	12'-10"	31
h2(E)	4'-0"	26'-2"	30'-2"	4



SECTION THRU CONCRETE FACING



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 stainless steel anchor rods according to Article 509.06 and 1006.31 of the Standard Specifications. Embedment shall be according to the manufacturer's specifications.

- Notes:
Minimum lap for #5 bar is 3'-8".
Space reinforcement in wall to miss shear studs.
Fence posts shall be vertical when erected.
For additional chain link fence details, See Standard 664001.
All steel elements shall be galvanized after fabrication according to Article 509.05 of the Standard Specifications.

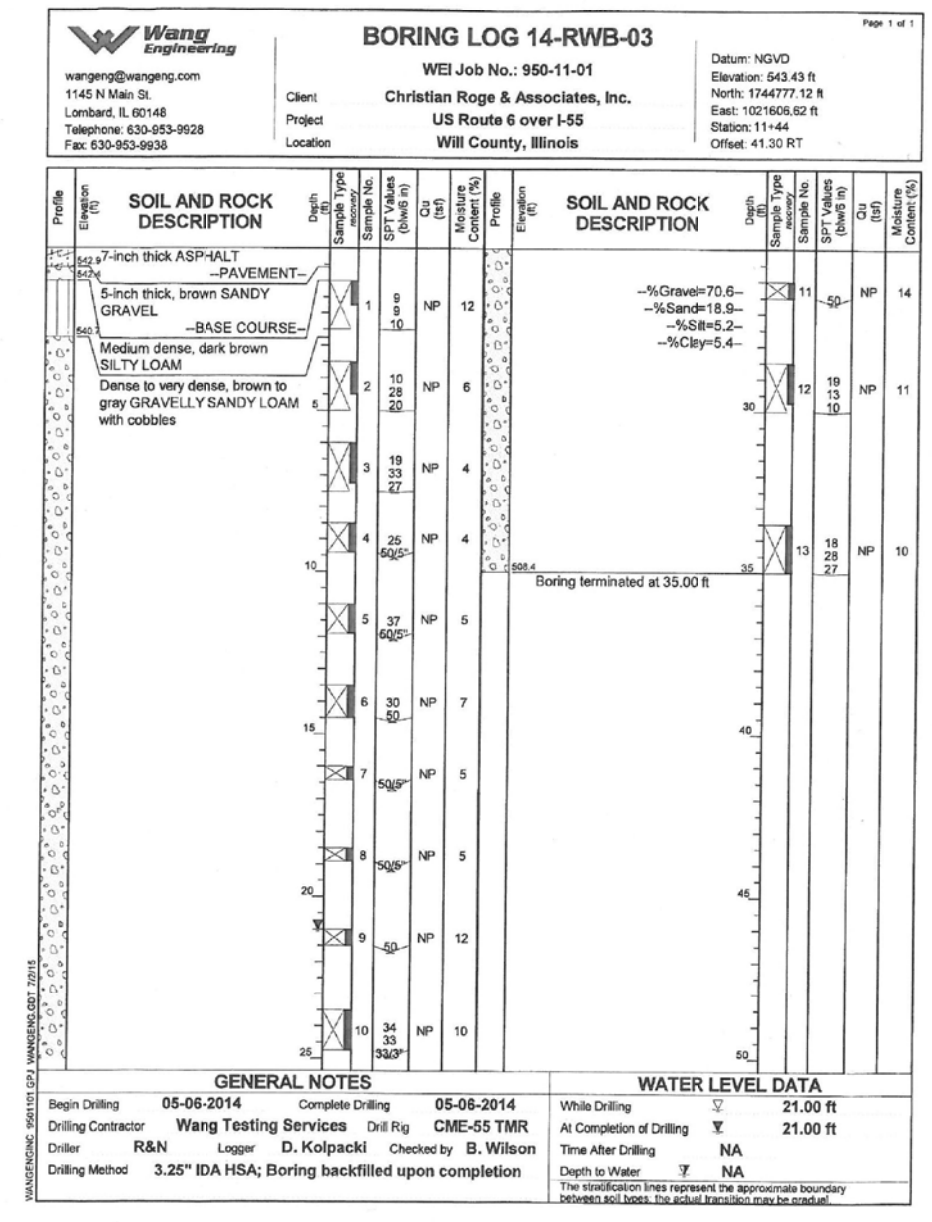
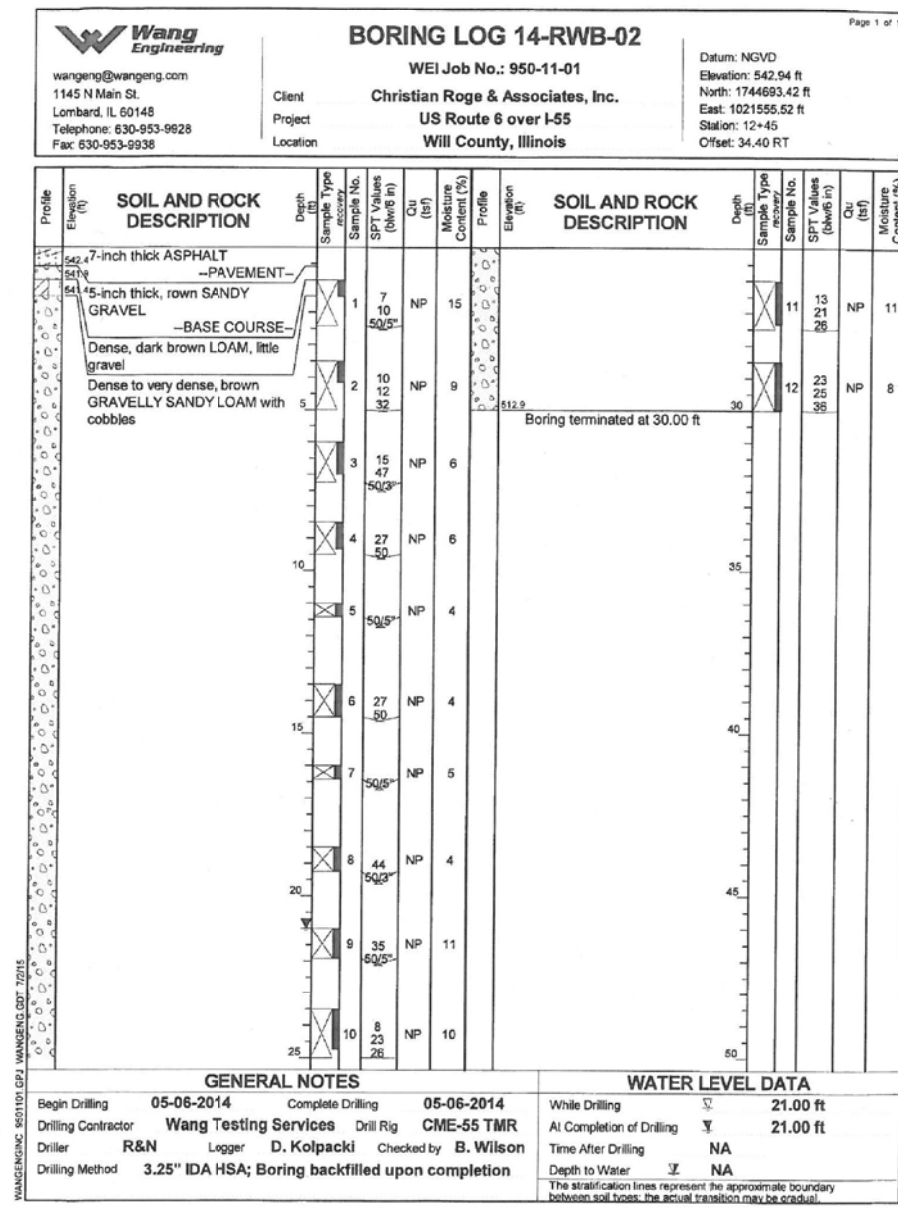
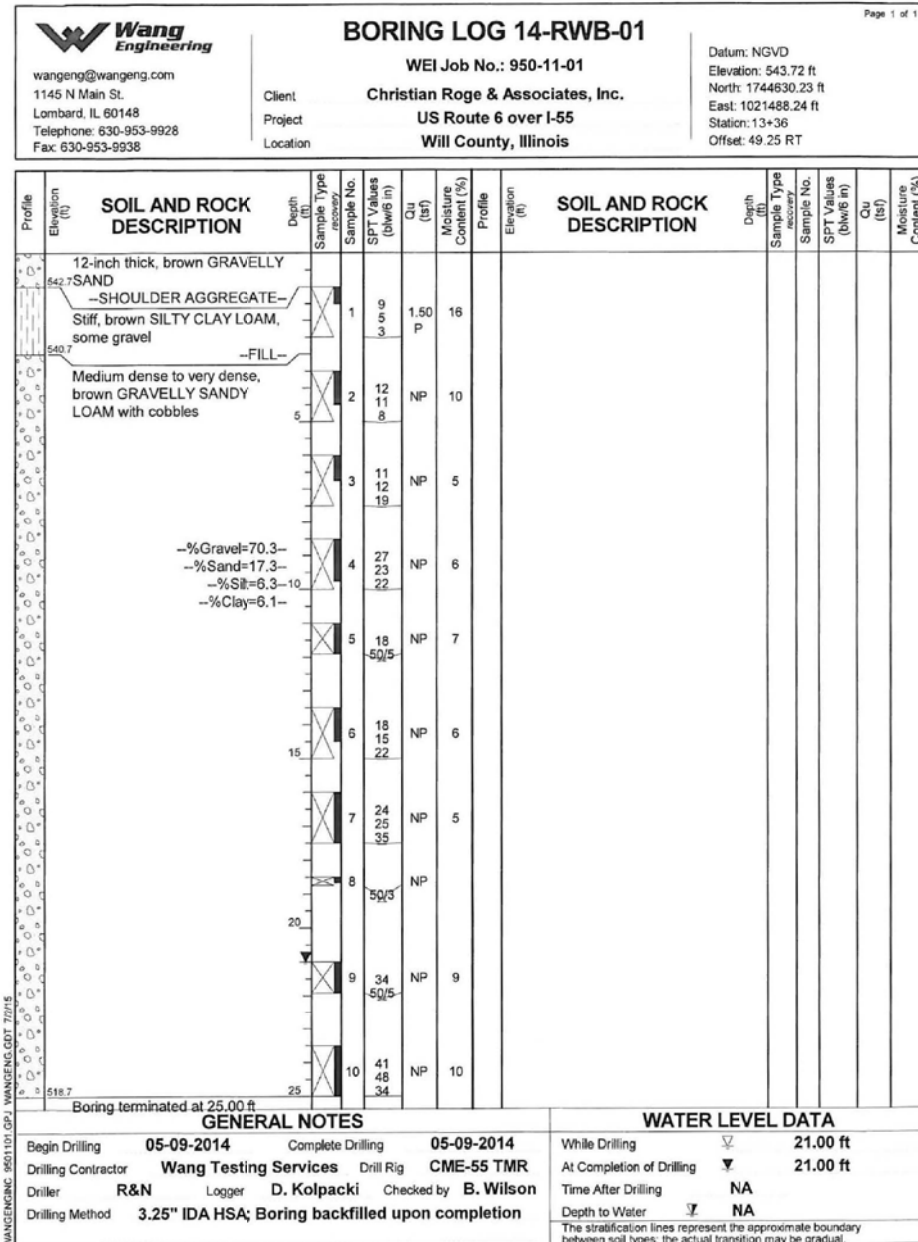
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	PLOT SCALE = 1/8" = 1'-0"	CHECKED - J.W./B.N.S.	REVISED -			55	2014-065-R	WILL	184	147	
	PLOT DATE = 4/21/2016	DRAWN - F.M.	REVISED -			CONTRACT NO. 62A00					
		DATE - 1/18/2016	REVISED -			ILLINOIS FED. AID PROJECT					

BORING LOG RWB-01

BORING LOG RWB-02

BORING LOG RWB-03



FILE NAME = L:\7262\Contract 3\CADD Sheets\Retaining Walls\SN 099-0606\SN0990606-S11-BoringLogs.dgn

BORING LOG RWB-04

BORING LOG RWB-05

BORING LOG RWB-06

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 wangeng@wangeng.com
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 Fax: 630-953-9938

BORING LOG 14-RWB-04 Page 1 of 1

WEI Job No.: 950-11-01
 Client: Christian Roge & Associates, Inc.
 Project: US Route 6 over I-55
 Location: Will County, Illinois

Datum: NGVD
 Elevation: 544.02 ft
 North: 1744864.39 ft
 East: 1021660.69 ft
 Station: 10+36
 Offset: 42.30 RT

Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	Sample Type	SPT Values (blows/in)	Cu (tsf)	Moisture Content (%)	Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	Sample Type	SPT Values (blows/in)	Cu (tsf)	Moisture Content (%)	
543.3	9-inch thick ASPHALT -PAVEMENT-							543.3								
543.0	3-inch thick, brown SANDY GRAVEL -BASE COURSE-	1	11	11	11	NP	14	543.0			11	28	27	29	NP	12
541.4	Medium dense, brown SILTY LOAM	2	5	12	8	NP	8	541.4			12	20	18	39	NP	9
538.5	Medium dense, brown GRAVELLY SAND	5						538.5								
537.3	Medium dense to very dense, brown GRAVELLY SANDY LOAM with cobbles	3	4	14	21	NP	16	537.3			4	14	14	14	NP	6
		4	11	18	22	NP	5				14	14	14	NP	6	
		5	50/5			NP	5				14	26	30	NP	4	
		6	36	50		NP	4				27	42	50/3	NP	3	
		7	50			NP	6				50/3			NP	7	
		8	35	50/4		NP	4				28	50/4		NP	6	
		9	50/4			NP	6				50/5			NP	5	
		10	30	50/4		NP	9				13	27	30	NP	14	

GENERAL NOTES				WATER LEVEL DATA			
Begin Drilling	05-06-2014	Complete Drilling	05-06-2014	While Drilling	21.00 ft		
Drilling Contractor	Wang Testing Services	Drill Rig	CME-55 TMR	At Completion of Drilling	21.00 ft		
Driller	R&N	Logger	D. Kolpacki	Time After Drilling	NA		
Checked by	B. Wilson			Depth to Water	NA		
Drilling Method	3.25" IDA HSA; Boring backfilled upon completion			The stratification lines represent the approximate boundary between soil types. The actual transition may be gradual.			

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BORING LOG 14-RWB-05 Page 1 of 1

WEI Job No.: 950-11-01
 Client: Christian Roge & Associates, Inc.
 Project: US Route 6 over I-55
 Location: Will County, Illinois

Datum: NGVD
 Elevation: 544.33 ft
 North: 1744953.41 ft
 East: 1021707.11 ft
 Station: 9+33
 Offset: 37.15 RT

Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	Sample Type	SPT Values (blows/in)	Cu (tsf)	Moisture Content (%)	Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	Sample Type	SPT Values (blows/in)	Cu (tsf)	Moisture Content (%)	
543.7	7.5-inch thick ASPHALT -PAVEMENT-							543.7								
543.0	4.5-inch thick, brown GRAVELLY SAND -BASE COURSE-	1	13	11	10	2.00	17	543.0			11	50/5	NP	13		
542.0	Very stiff, brown SILTY CLAY LOAM, little gravel -FILL-	2	10	17	22	NP	9	542.0			12	13	37	25	NP	9
539.3	Medium dense to very dense, brown to gray GRAVELLY SANDY LOAM with cobbles	3	33	20	15	NP	6	539.3			13	23	50/5	NP	15	
		4	14	14	14	NP	6				14	14	14	NP	6	
		5	14	26	30	NP	4				14	26	30	NP	4	
		6	27	42	50/3	NP	3				27	42	50/3	NP	3	
		7	50/3			NP	7				50/3			NP	7	
		8	28	50/4		NP	6				28	50/4		NP	6	
		9	50/5			NP	5				50/5			NP	5	
		10	13	27	30	NP	14				13	27	30	NP	14	

GENERAL NOTES				WATER LEVEL DATA			
Begin Drilling	05-08-2014	Complete Drilling	05-08-2014	While Drilling	23.00 ft		
Drilling Contractor	Wang Testing Services	Drill Rig	CME-55 TMR	At Completion of Drilling	23.00 ft		
Driller	R&N	Logger	D. Kolpacki	Time After Drilling	NA		
Checked by	B. Wilson			Depth to Water	NA		
Drilling Method	3.25" IDA HSA; Boring backfilled upon completion			The stratification lines represent the approximate boundary between soil types. The actual transition may be gradual.			

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BORING LOG 14-RWB-06 Page 1 of 1

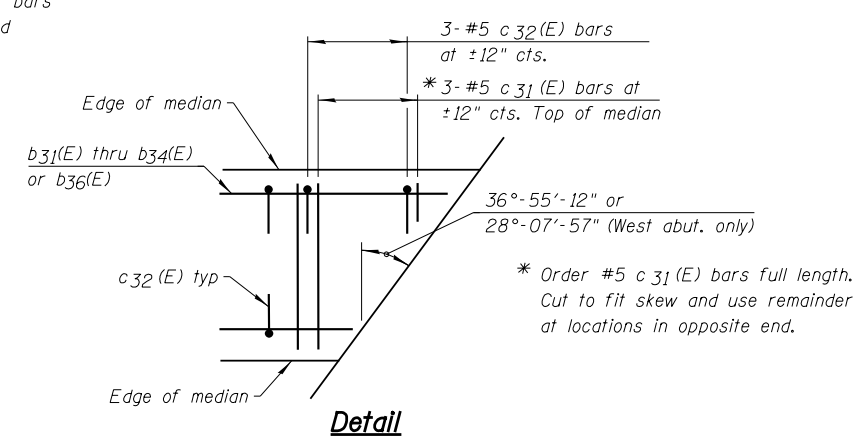
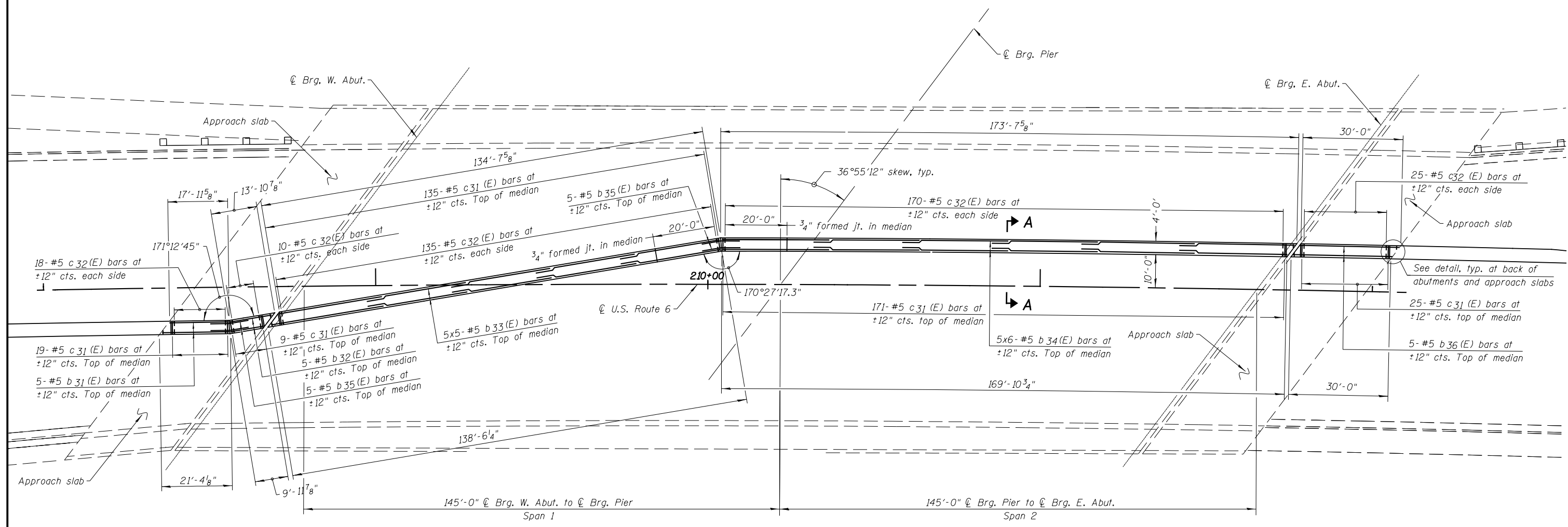
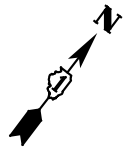
WEI Job No.: 950-11-01
 Client: Christian Roge & Associates, Inc.
 Project: US Route 6 over I-55
 Location: Will County, Illinois

Datum: NGVD
 Elevation: 544.22 ft
 North: 1745052.13 ft
 East: 1021741.17 ft
 Station: 8+22
 Offset: 36.70 RT

Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	Sample Type	SPT Values (blows/in)	Cu (tsf)	Moisture Content (%)	Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	Sample Type	SPT Values (blows/in)	Cu (tsf)	Moisture Content (%)	
543.6	7-inch thick ASPHALT -PAVEMENT-							543.6								
543.0	5-inch thick, brown GRAVELLY SAND -BASE COURSE-	1	11	3	3	NP	20	543.0			11	37	50/5	NP	11	
539.7	Loose to medium dense, brown SILTY LOAM, trace gravel -FILL-	2	6	7	8	NP	18	539.7			12	15	17	19	NP	11
514.2	Medium dense to very dense, brown to gray GRAVELLY SANDY LOAM with cobbles	3	10	12	16	NP	7	514.2			10	12	16	NP	7	
		4	11	16	26	NP	7				11	16	26	NP	7	
		5	11	17	15	NP					11	17	15	NP		
		6	50			NP	4				50			NP	4	
		7	36	42	35	NP	9				36	42	35	NP	9	
		8	50/5			NP					50/5			NP		
		9	26	50/5		NP	12				26	50/5		NP	12	
		10	50/5			NP					50/5			NP		

GENERAL NOTES				WATER LEVEL DATA			
Begin Drilling	05-08-2014	Complete Drilling	05-08-2014	While Drilling	21.00 ft		
Drilling Contractor	Wang Testing Services	Drill Rig	CME-55 TMR	At Completion of Drilling	21.00 ft		
Driller	R&N	Logger	D. Kolpacki	Time After Drilling	NA		
Checked by	B. Wilson			Depth to Water	NA		
Drilling Method	3.25" IDA HSA; Boring backfilled upon completion			The stratification lines represent the approximate boundary between soil types. The actual transition may be gradual.			

FILE NAME = L:\7262\Contract 3\CADD Sheets\Retaining Walls\SN 099-0606\SN0990606-S12-BoringLog.dgn



Min. Bar Lap:
#5 bars = 3'-6"

See Sheet S2 for Section A-A.

FILE NAME = I:\7262\Structural\CADD Sheets\0162A00-01-median-deck.dgn



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PLOT DATE = 3/16/2016	DRAWN - F.M./B.K./J.V.	REVISED -
	DATE - JANUARY 18, 2016	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

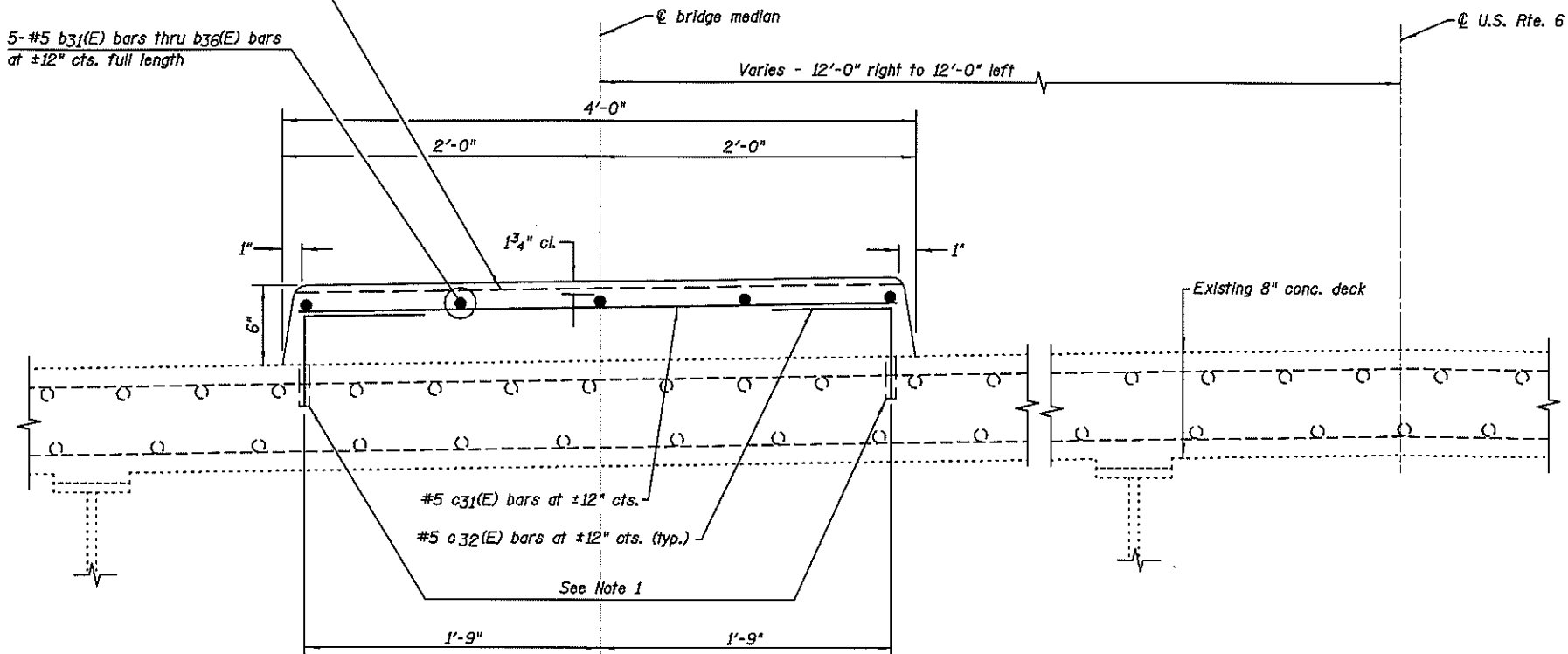
RAISED BRIDGE MEDIAN PLAN
STRUCTURE NO. 099-0277

SHEET NO. S1 OF S2 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	2014-065-R	WILL	184	150
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT			CONTRACT NO. 62A00	

* 1/4" x 3/4" Formed Joint with bridge relief
Joint sealer (See sht. S1 of S2 for locations)

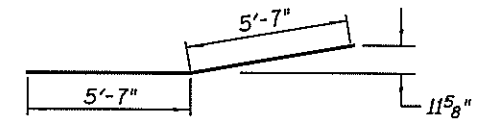
5-#5 b31(E) bars thru b36(E) bars
at ±12" cts. full length



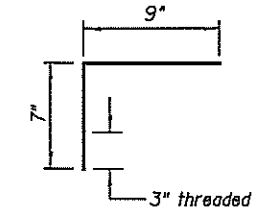
Section A-A
Raised Median
(Bridge deck shown, approach slab similar)

* Full width along joint - backer rod not required.

Note 1
Drill holes in concrete and set #5 c32(E) bars according to Article 509.06 of the Standard Specifications. Maximum depth of the holes shall not exceed 5" (Proof load 6600 lb., 734 locations). Cast Included in Reinforcement Bars, Epoxy Coated. Holes shall be located to miss the top deck reinforcement.



BAR b35(E)



BAR c32(E)

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
b31(E)	5	#5	19'-6"	—
b32(E)	5	#5	11'-9"	—
b33(E)	25	#5	30'-0"	—
b34(E)	30	#5	31'-7"	—
b35(E)	10	#5	11'-2"	—
b36(E)	5	#5	29'-8"	—
c31(E)	368	#5	3'-5"	—
c32(E)	734	#5	1'-4"	┐
Concrete Superstructure			Cu Yd	27.5
Protective Coat			Sq Yd	206.0
Reinforcement Bars, Epoxy Coated			Pound	4,540

FILE NAME = I:\7262\Structural\CADD Sheets\0162A08-02-cross-section.bom.dgn

CHRISTIAN-ROGE & ASSOCIATES, INC.

USER NAME = bkemeritis
PLOT SCALE = 1:30.0041
PLOT DATE = 3/16/2016

DESIGNED - B.N.S./J.W.
CHECKED - J.W./B.N.S.
DRAWN - F.M./B.K./J.V.
DATE - JANUARY 18, 2016

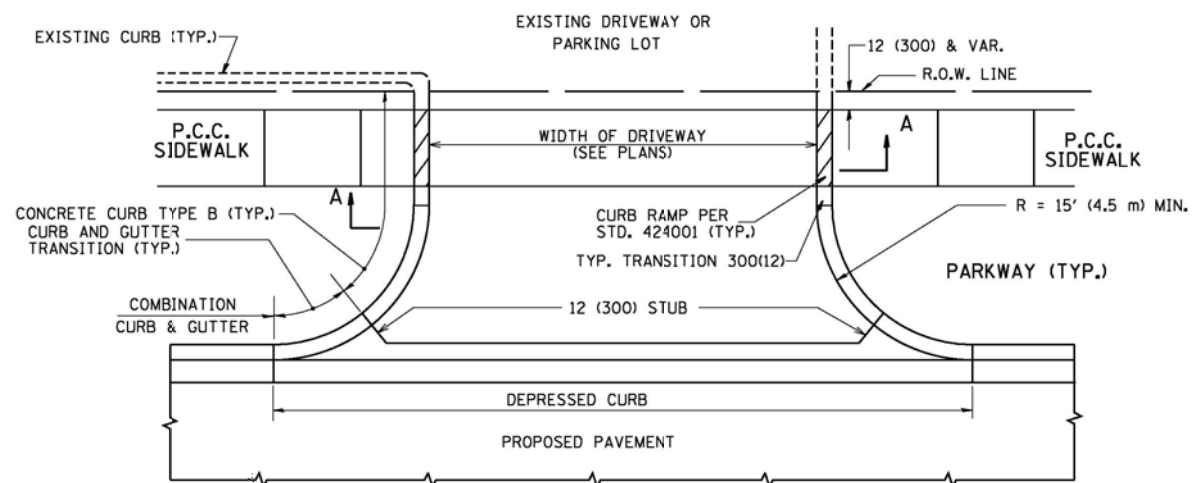
REVISED - 03-16-2016
REVISED -
REVISED -
REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

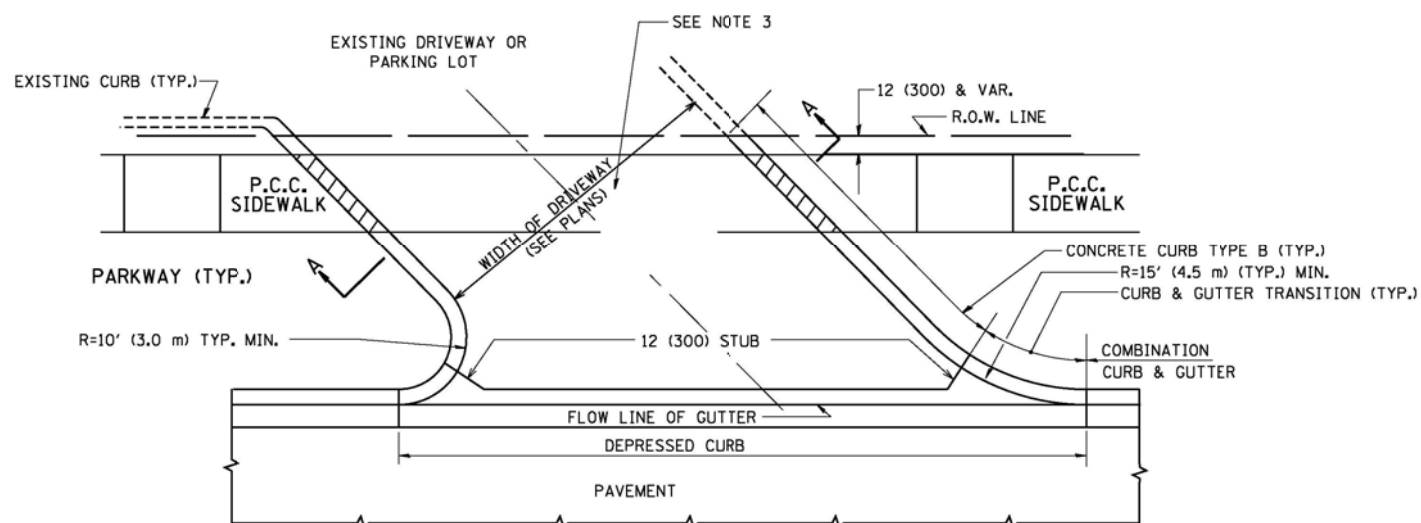
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STRUCTURE NO. 099-0277**

SHEET NO. S2 OF S2 SHEETS

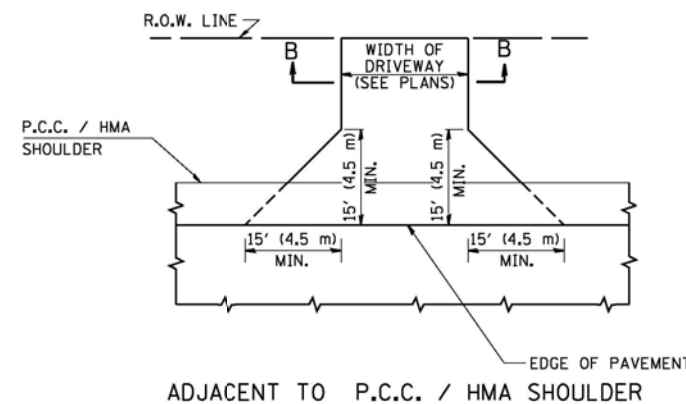
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	2014-065-R	WILL.	184	151
CONTRACT NO. 62A00			FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT	



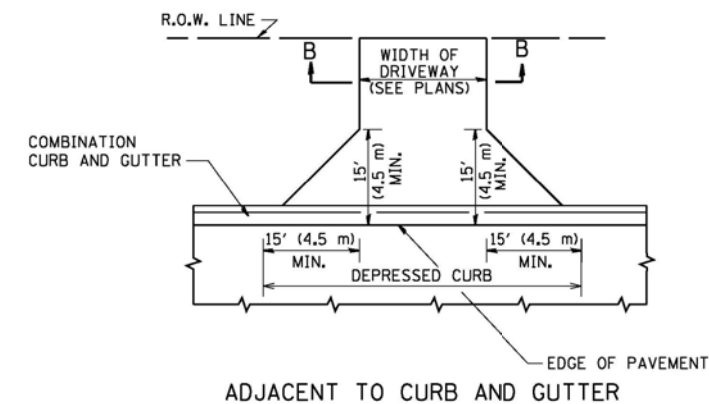
WITH CONCRETE CURB, TYPE B



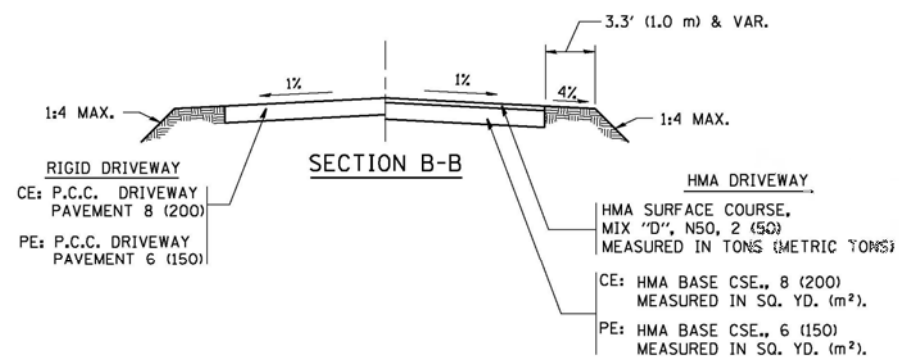
WITH CONCRETE CURB, TYPE B



ADJACENT TO P.C.C. / HMA SHOULDER



ADJACENT TO CURB AND GUTTER



RURAL FIELD ENTRANCE (FE)

HMA SURFACE COURSE,
MIX "D", N50, 2 (50)
MEASURED IN TONS (METRIC TONS)

AGGREGATE BASE CSE., TYPE B, 8 (200)
MEASURED IN SQ. YD. (m²).

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.

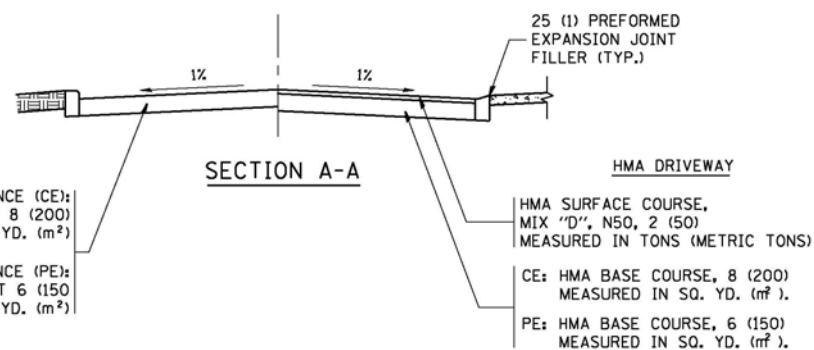
COMMERCIAL DRIVEWAYS SHALL BE CONSTRUCTED WITH CONCRETE CURB, TYPE B RETURNS EXCEPT WHEN THE SIDEWALK EDGE IS 4 FEET (1.2 METERS) OR LESS FROM THE BACK OF CURB, CONSTRUCT A FLARE DRIVEWAY WITHOUT CURB.

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 IN DRIVEWAY AREA TO BE A MAXIMUM OF 1:50.



RIGID DRIVEWAY

COMMERCIAL ENTRANCE (CE):
P.C.C. DRIVEWAY PAVEMENT 8 (200)
MEASURED IN SQ. YD. (m²)

NON-COMMERCIAL ENTRANCE (PE):
P.C.C. DRIVEWAY PAVEMENT 6 (150)
MEASURED IN SQ. YD. (m²)

SECTION A-A

HMA DRIVEWAY

HMA SURFACE COURSE,
MIX "D", N50, 2 (50)
MEASURED IN TONS (METRIC TONS)

CE: HMA BASE COURSE, 8 (200)
MEASURED IN SQ. YD. (m²),
PE: HMA BASE COURSE, 6 (150)
MEASURED IN SQ. YD. (m²).

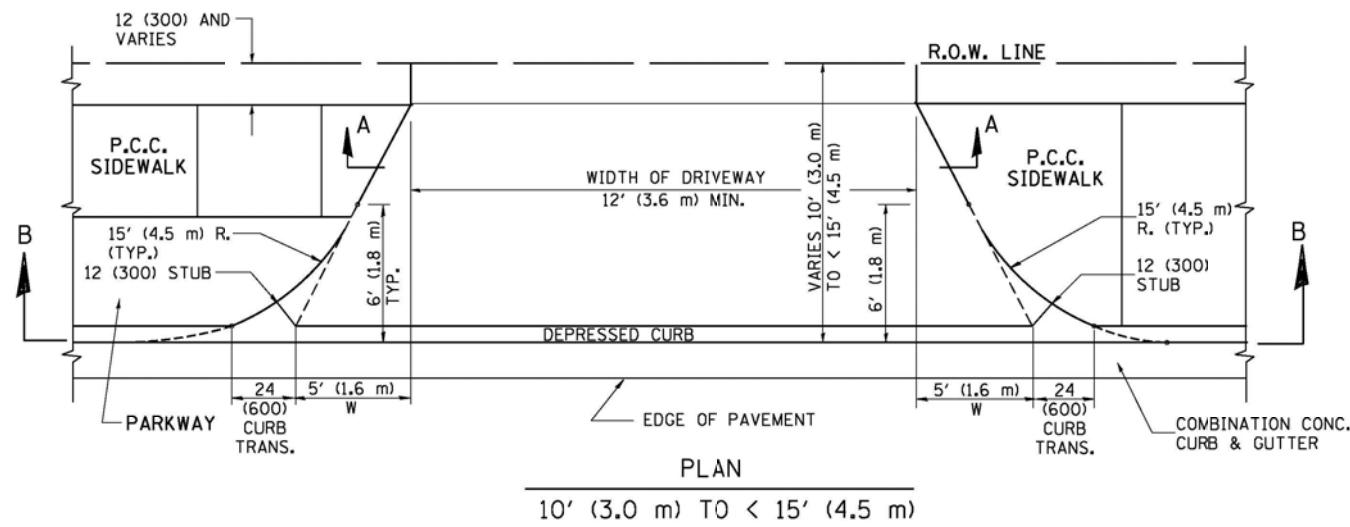
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		DRAWN -	REVISED - R. BORO 01-01-07
	PLOT SCALE = 50.0000' / 1"	CHECKED -	REVISED - R. BORO 06-11-08
	PLOT DATE = 9/6/2011	DATE - 11-04-95	REVISED - R. BORO 09-06-11

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DRIVEWAY DETAILS - DISTANCE BETWEEN R.O.W.
AND FACE OF CURB & EDGE OF SHOULDER >= 15' (4.5 m)

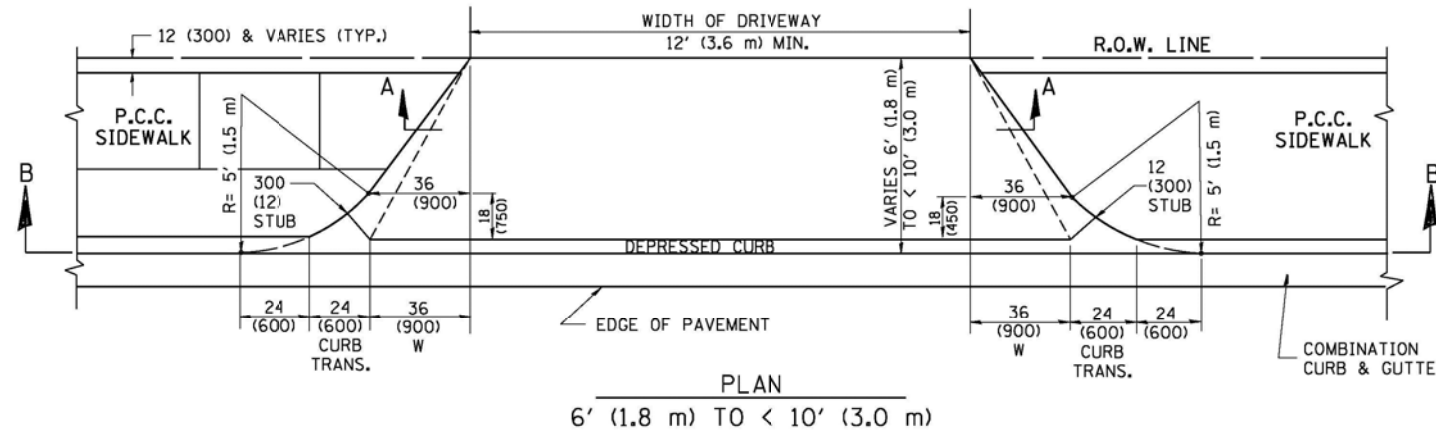
SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.

F.A. RTE. 55	SECTION 2014-065-R	COUNTY WILL	TOTAL SHEETS 184	SHEET NO. 152
BD0156-07 (BD-01)		CONTRACT NO. 62A00		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



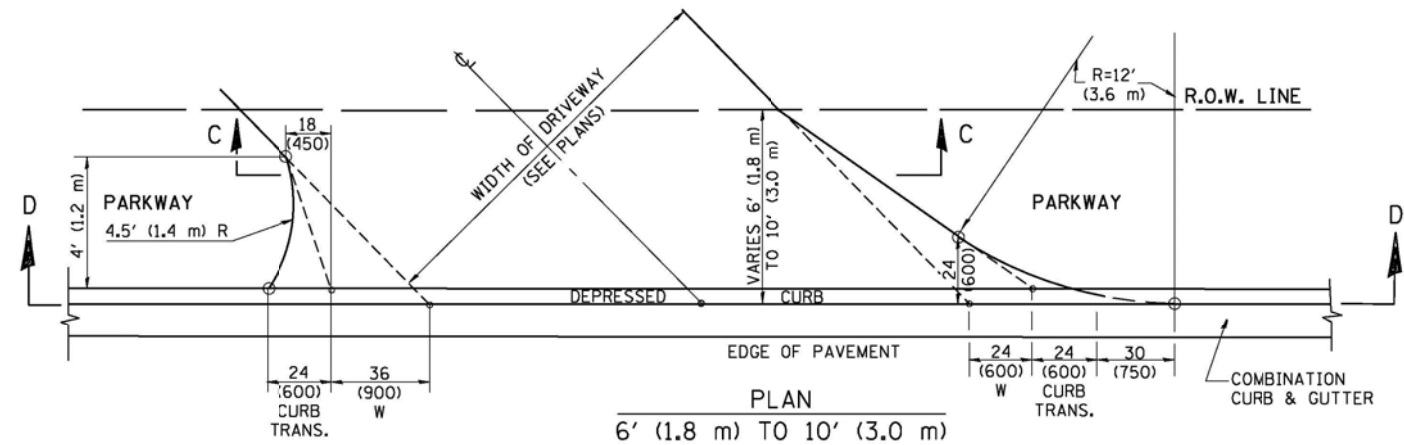
PLAN

10' (3.0 m) TO < 15' (4.5 m)



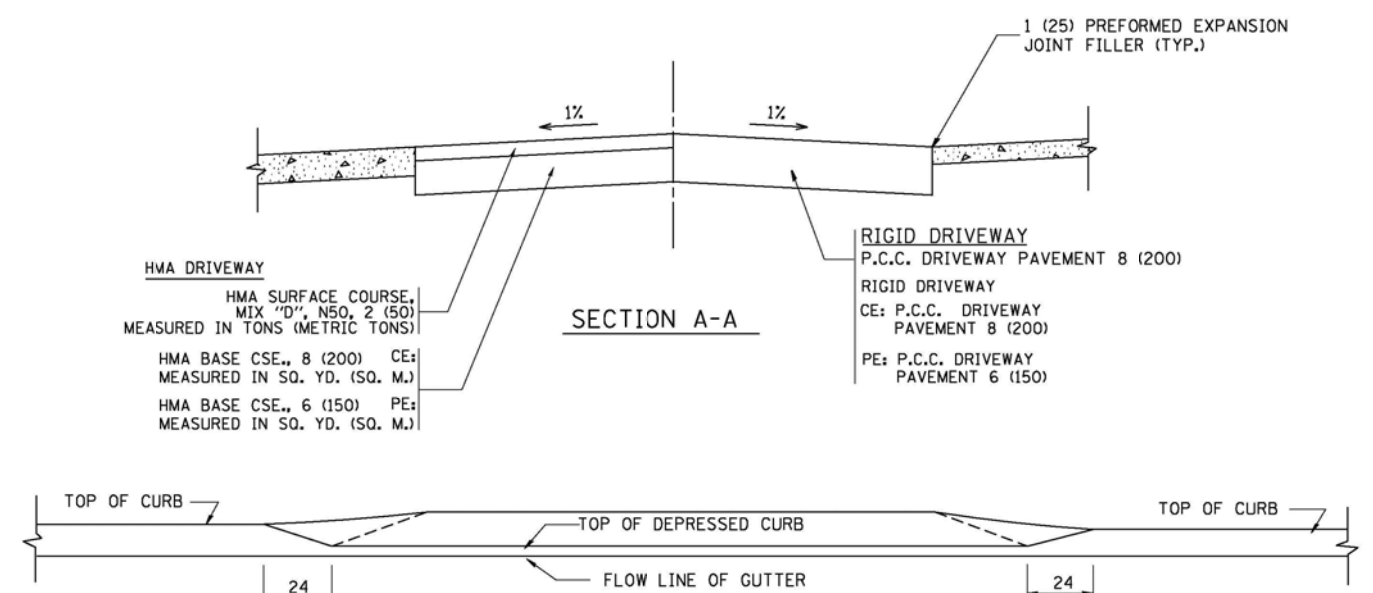
PLAN

6' (1.8 m) TO < 10' (3.0 m)

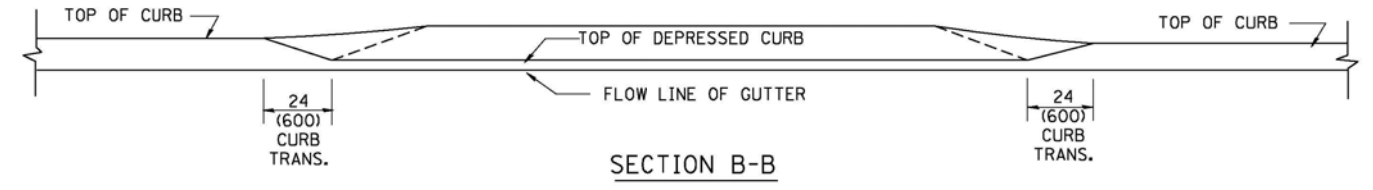


PLAN

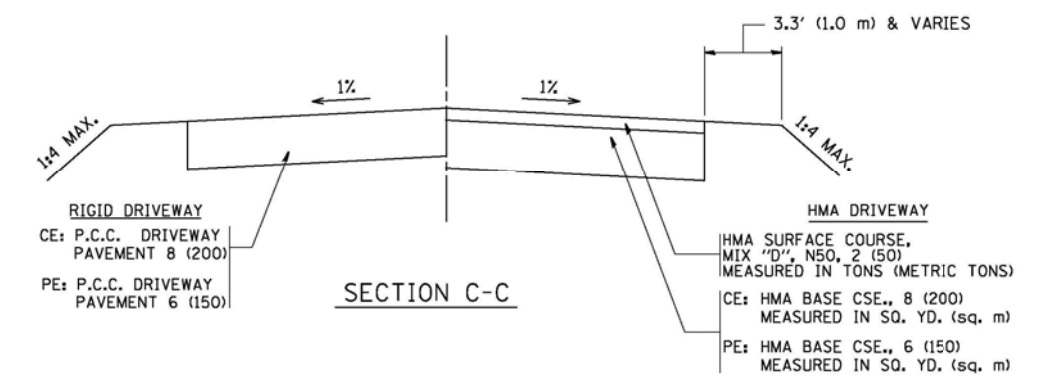
6' (1.8 m) TO 10' (3.0 m)



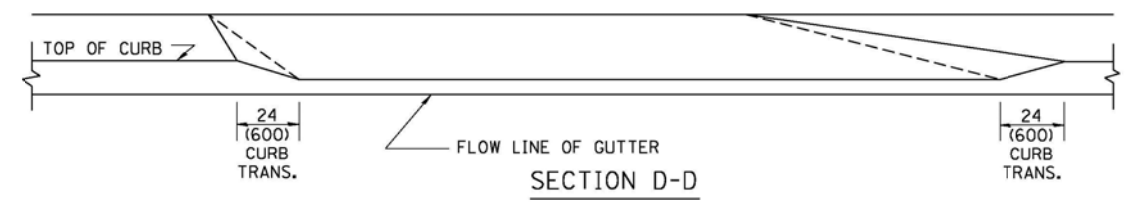
SECTION A-A



SECTION B-B



SECTION C-C



SECTION D-D

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).

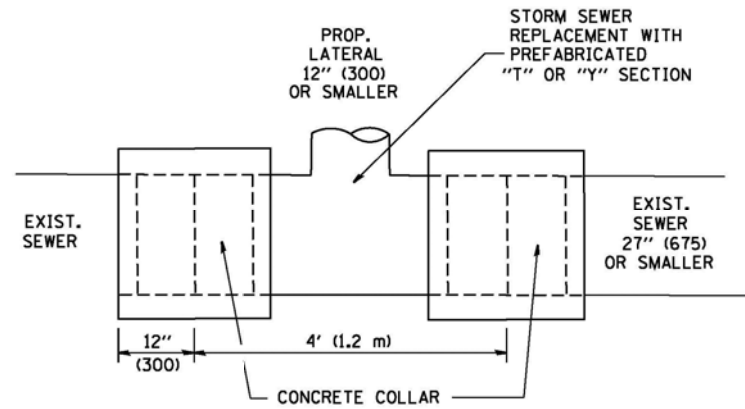
ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE NOTED.

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

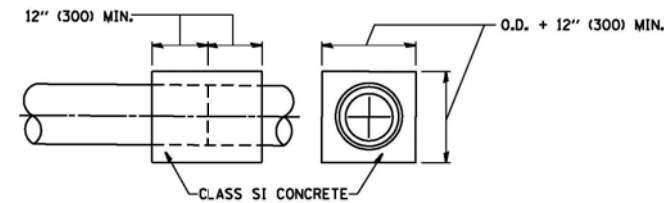
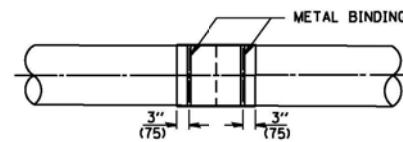
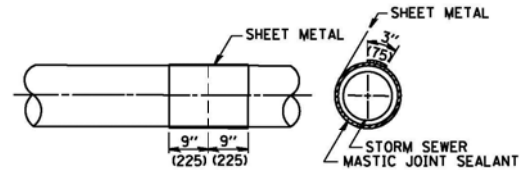
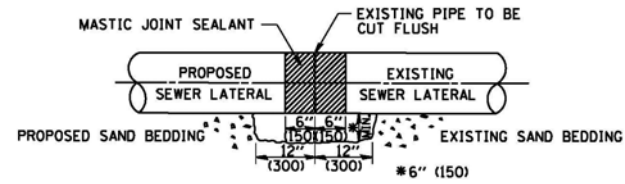
DRIVEWAY DETAILS	
DISTANCE BETWEEN ROW AND FACE OF CURB < 15' (4.5 m)	
SCALE: NONE	SHEET NO. 1 OF 1 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	2014-065-R	WILL	184	153
BD400-02 (BD-02)		CONTRACT NO. 62A00		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



DETAIL "A"

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

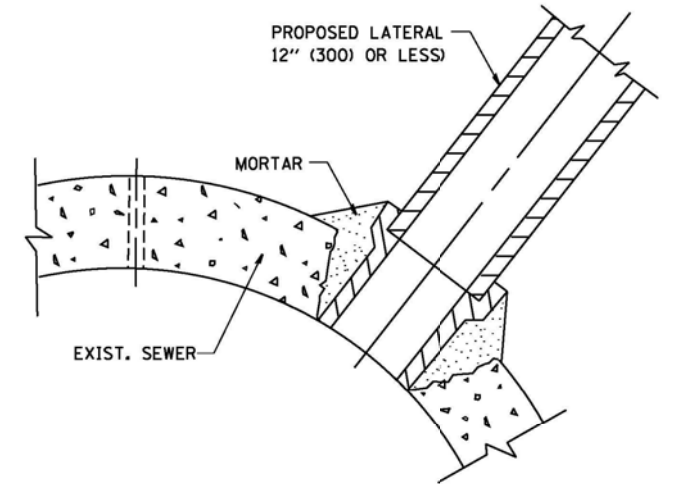


DETAIL "B"

CLASS SI CONCRETE COLLAR

CONSTRUCTION SEQUENCE

- CUT THE EXISTING END OF THE PIPE SO AS TO PRESENT A FLUSH BUTT JOINT. BRUSH AND CLEAN ALL PIPES.
- APPLY THE MASTIC JOINT SEALANT TO THE FIRST 6" (150) OF EACH PIPE.
- BUTT THE PIPES TOGETHER LEAVING A MINIMUM OF 12' x 6' (300 x 150) DEEP EXCAVATION UNDER AND AROUND EACH PIPE END.
- CUT A PIECE OF SHEET METAL GAGE NO. 19 1.1 (0.0418) 18" (450) WIDE BY THE OUTSIDE CIRCUMFERENCE OF THE PIPE PLUS 3" (75) LONG.
- WRAP THE SHEET METAL AROUND THE PIPES, 9" (225) ON EACH SIDE OF THE JOINT, STARTING AT THE TOP OF THE PIPE.
- LAP THE SHEET METAL AT LEAST 3" (75) AT THE TOP OF THE PIPE AND PLACE THE MASTIC JOINT SEALANT BETWEEN THE LAP.
- PLACE TWO METAL BANDS AROUND THE SHEET METAL AND TIGHTEN.
- WIPE OFF ANY EXCESS MASTIC JOINT SEALANT THAT OZZES OUT FROM BETWEEN THE SHEET METAL AND THE PIPES.
- 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.

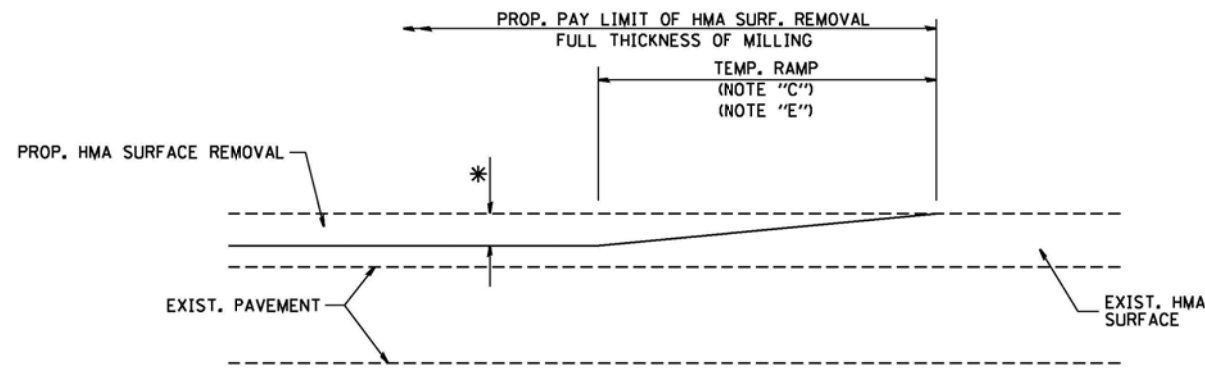
REMOVAL AND REINSTALLATION OF EXISTING STORM SEWER ADJACENT TO THE PROPOSED TEE OR WYE SECTION, FOR THE PURPOSE OF FACILITATING THE INSTALLATION OF THE TEE OR WYE SECTION, WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THE WORK.

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.

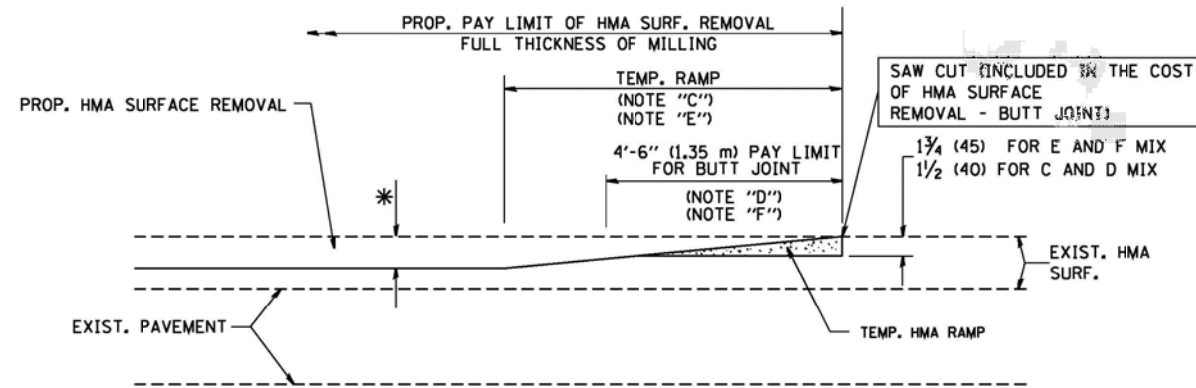
ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

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	PLOT DATE = 1/4/2008	DATE - 07-25-90	REVISED - R. SHAH 10-25-94									
					FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT							



MILLED TEMPORARY RAMP
(FOR BUTT JOINT AND HMA TAPER SEE DETAIL BELOW)

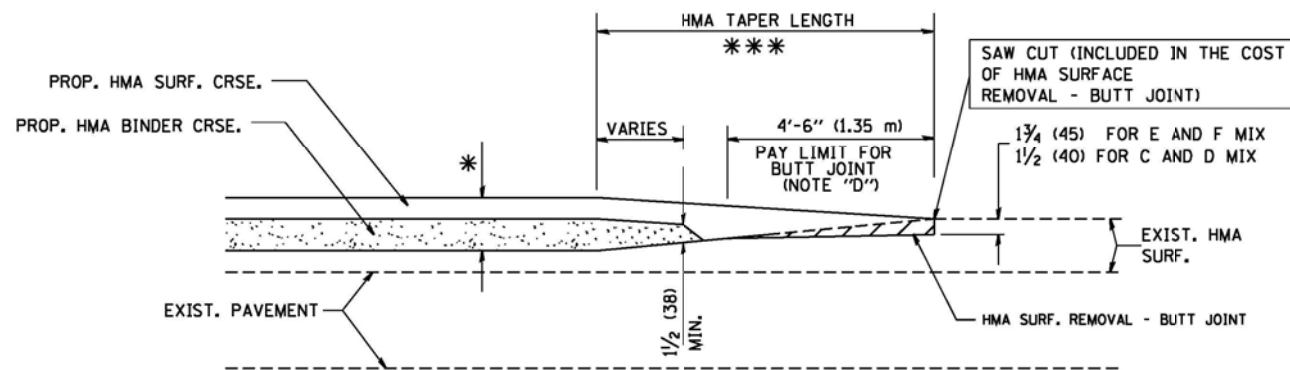
OPTION 1



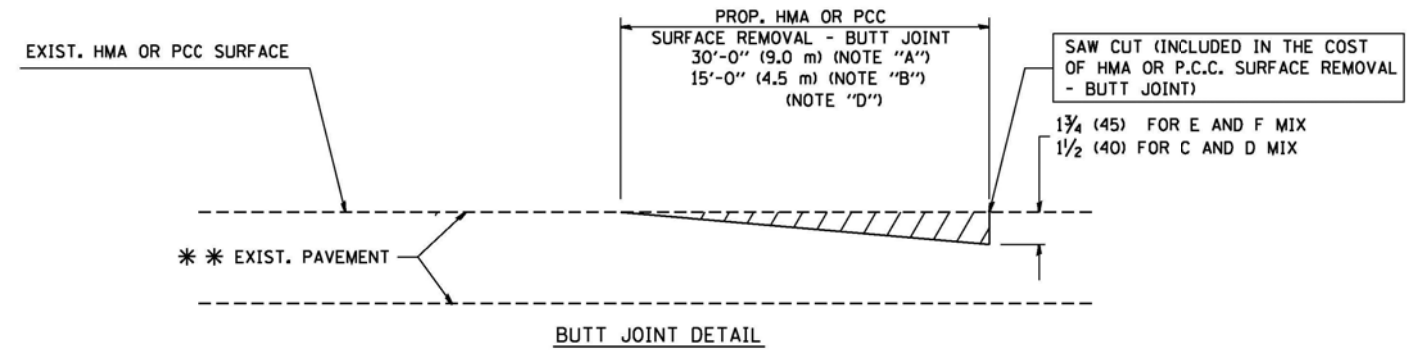
HMA CONSTRUCTED TEMPORARY RAMP
(FOR BUTT JOINT AND HMA TAPER SEE DETAIL BELOW)

OPTION 2

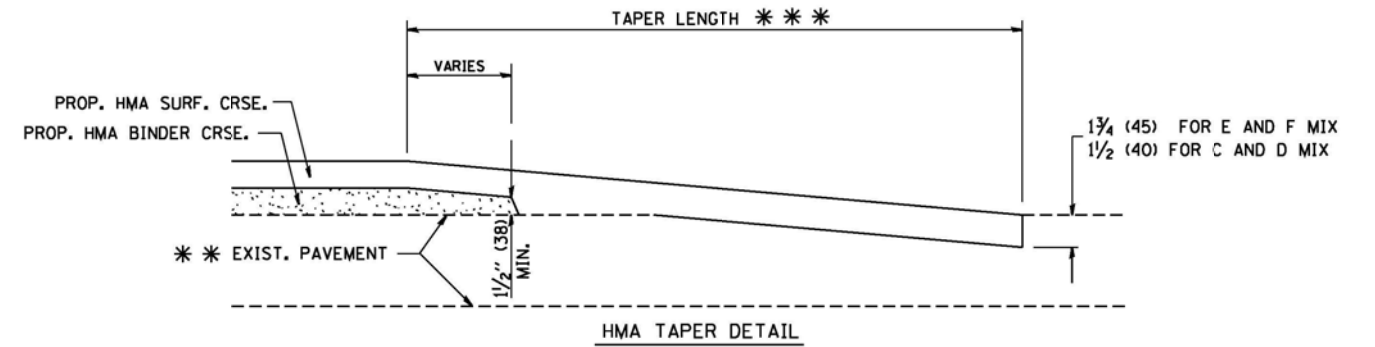
TYPICAL TEMPORARY RAMP



BUTT JOINT AND HMA TAPER
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.

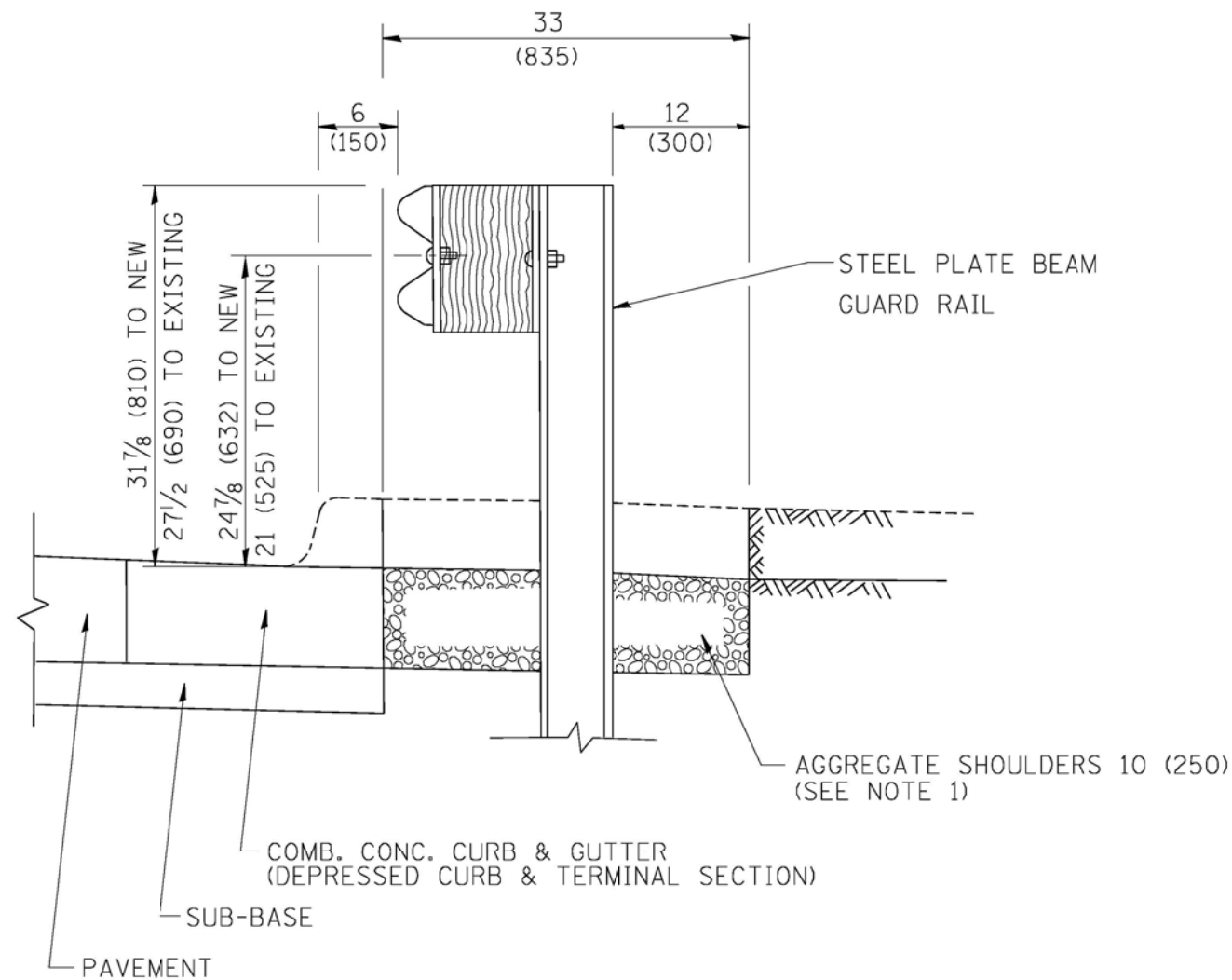
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		DRAWN -	REVISED - A. ABBAS 03-21-97
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	PLOT DATE = 1/4/2008	DATE - 06-13-90	REVISED - R. BORO 01-01-07

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BUTT JOINT AND
HMA TAPER DETAILS

SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. 119+32 TO STA. 197+40

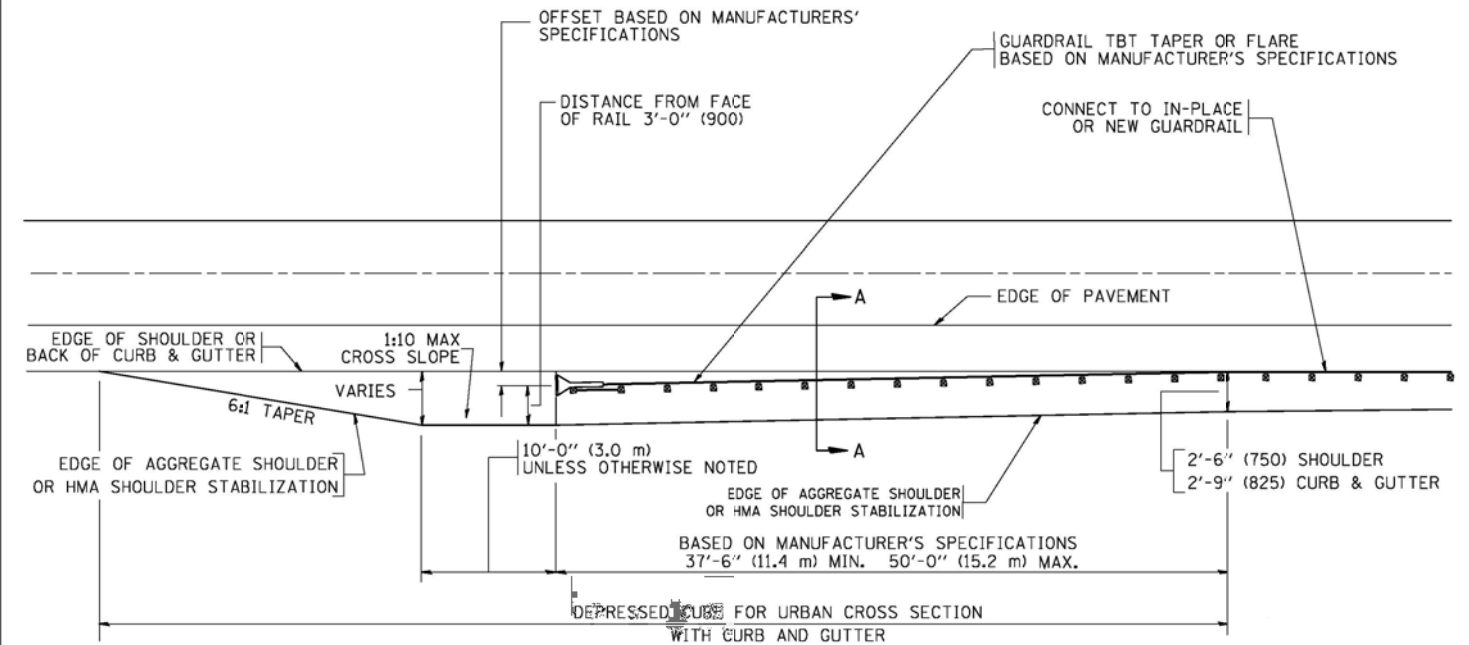
FAU RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	2014-065-R	WILL	184	155
BD400-05 BD32		CONTRACT NO. 62A00		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



SECTION A-A

- NOTES:
1. THE AGGREGATE SHOULDER, 10" OR HMA SHOULDER, 6" (IF REQUIRED) SHALL EXTEND UNDER THE TRAFFIC BARRIER TERMINAL.
 2. "EXISTING" GUARDRAIL REFERS TO CONNECTING TERMINAL SECTION TO GUARD RAILING PRIOR TO THE MIDWEST GUARDRAIL SYSTEM.
 3. THE CONTRACTOR SHALL VERIFY THE TYPE/HEIGHT OF GUARDRAIL IN-PLACE BEFORE ORDERING THE NEW TERMINAL SECTION. COST INCLUDED WITH THE COST OF THE TERMINAL. THE TERMINAL SECTION HEIGHT TO BE PLACED MUST MATCH THE HEIGHT OF THE IN-PLACE GUARDRAIL.

DETAILS FOR STEEL PLATE BEAM
GUARD RAIL ADJACENT TO CURB AND GUTTER
 [FOR ROADWAY SPEED 35 MPH (60 kmh) TO 45 MPH (70 kmh)]



DEPRESSED CURB AND GUTTER AND
SHOULDER TREATMENT AT TBT TY. 1 SPL.

BASIS OF PAYMENT: HMA SHOULDERS 6 (150) (IF REQUIRED) WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER SQUARE YARD (SQUARE METER) FOR "HOT-MIX ASPHALT SHOULDERS 6" (150 mm)".

STEEL PLATE BEAM GUARD RAIL AND TRAFFIC BARRIER TERMINAL, OF THE TYPE SPECIFIED WILL BE PAID FOR SEPARATELY.

TBT = TRAFFIC BARRIER TERMINAL

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

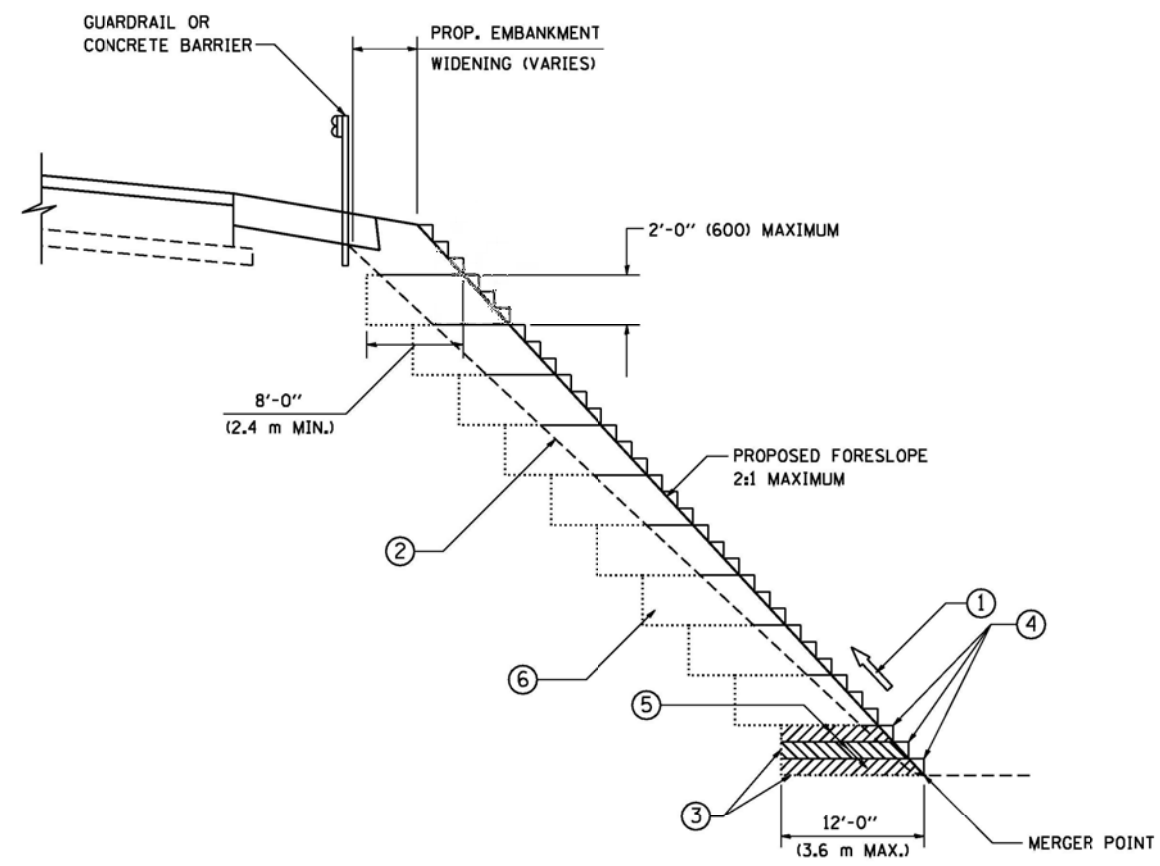
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	PLOT DATE = 9/21/2009	DATE - 09-22-90	REVISED - R. BORO 09-14-2009

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

DETAILS FOR DEPRESSED CURB & GUTTER AND
 SHOULDER TREATMENT AT TBT TY 1 SPL.

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	2014-065-R	WILL	184	156
BD600-10 (BD 34)			CONTRACT NO. 62A00	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



**TYPICAL BENCHING DETAIL
FOR EMBANKMENT**

NOTES:

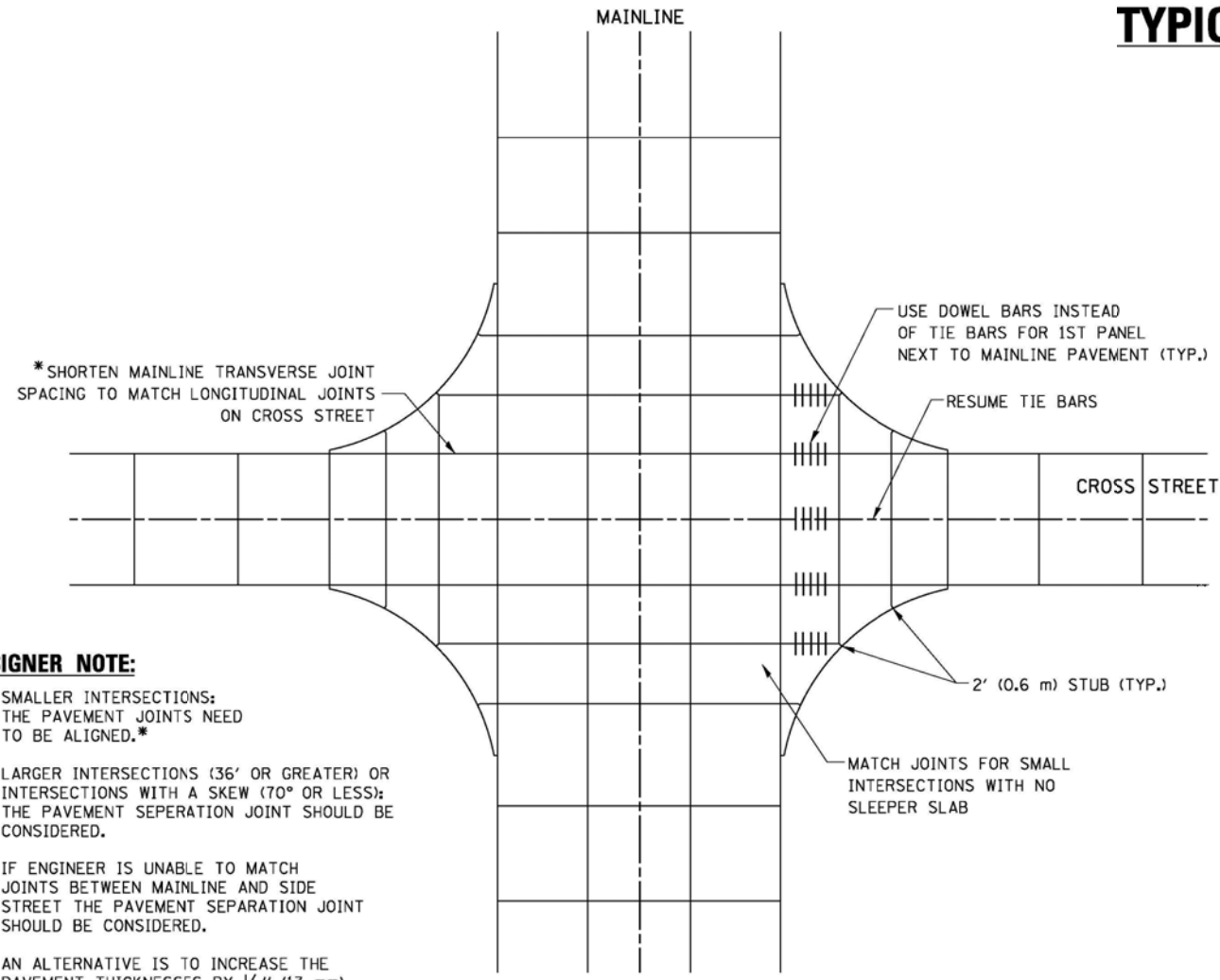
- ① CONSTRUCT SUCCEEDING BENCH CUTS AND EMBANKMENT PLACEMENT AND COMPACTION FROM BOTTOM TO TOP IN STAIRSTEP FASHION.
- ② EXISTING FORESLOPE PREPARED IN ACCORDANCE WITH ARTICLE 205.03 OF THE STANDARD SPECIFICATIONS.
- ③ BENCH CUT EXISTING SLOPE TYPICAL FOR EACH STEP.
- ④ TRIM TO FINAL SLOPE.
- ⑤ EQUAL 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.

FILE NAME = W:\distatd\22x34\bd51.dgn	USER NAME = geglennobt	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	BENCHING DETAIL FOR EMBANKMENT WIDENING		F.A. RTE. = 55	SECTION = 2014-065-R	COUNTY = WILL	TOTAL SHEETS = 184	SHEET NO. = 157
	PLOT SCALE = 50.0000' / IN.	CHECKED - S.E.B.	REVISED -		SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA. TO STA.	BD-51		CONTRACT NO. 62A00	
PLOT DATE = 1/4/2008	DATE = 06-16-04	REVISED -	REVISED -	FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT							

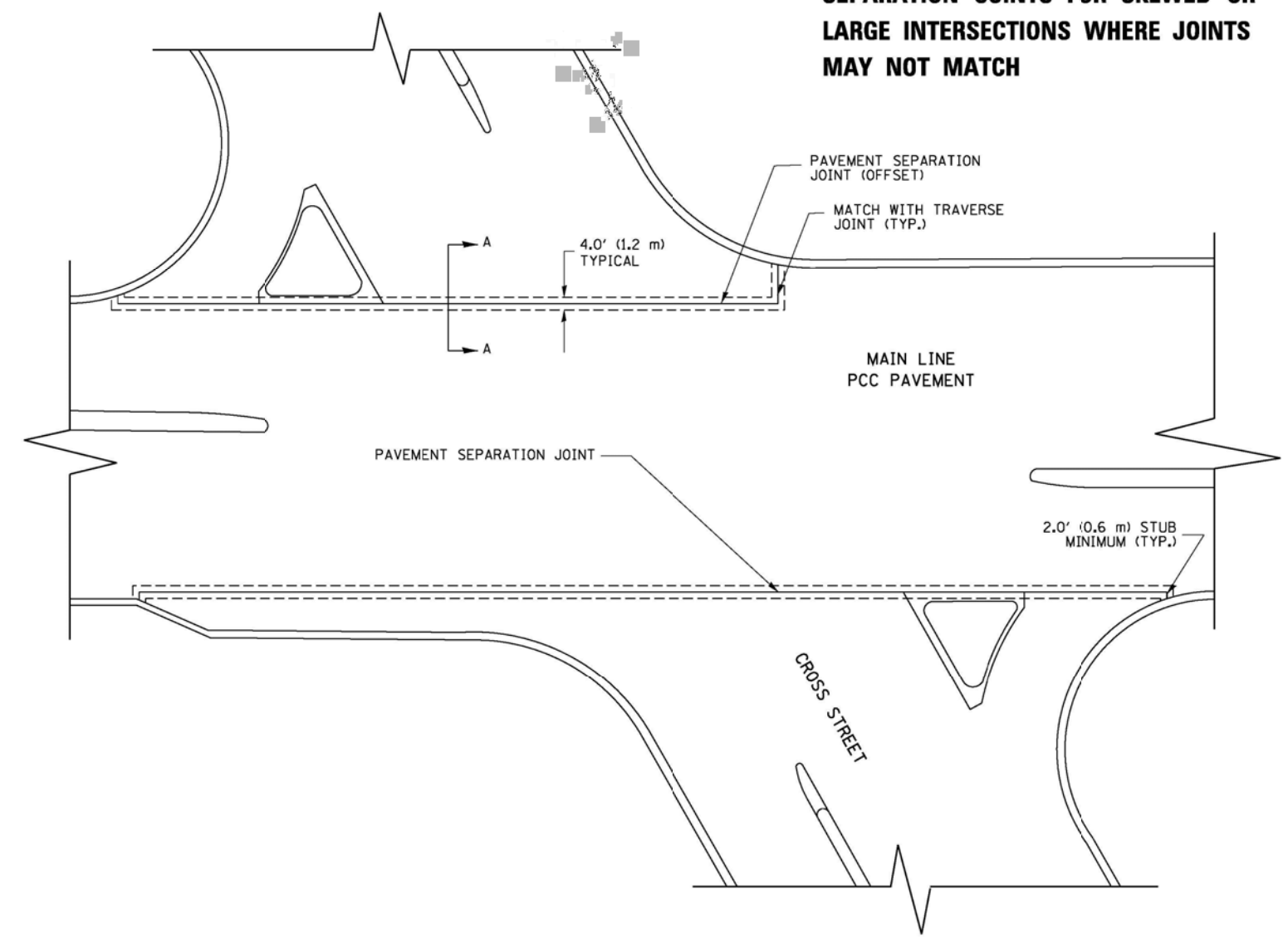
TYPICAL APPLICATION

THE USE OF CROSS STREET PAVEMENT SEPARATION JOINTS FOR SKEWED OR LARGE INTERSECTIONS WHERE JOINTS MAY NOT MATCH

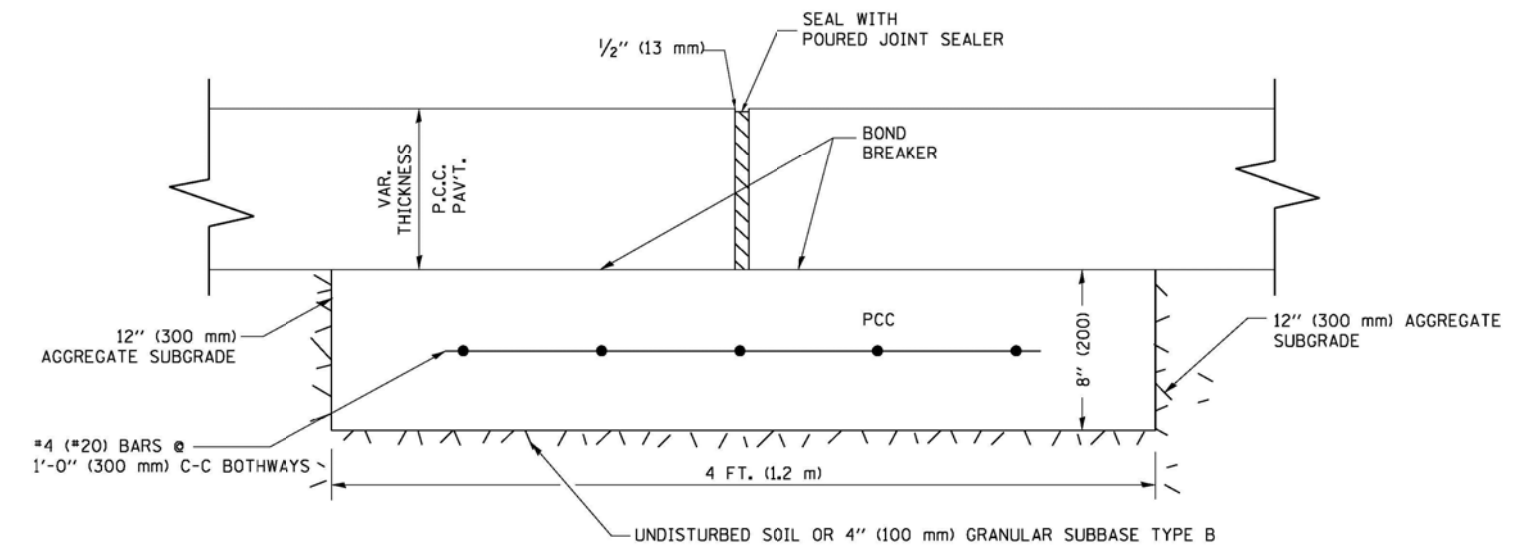


PLAN

- DESIGNER NOTE:**
1. SMALLER INTERSECTIONS: THE PAVEMENT JOINTS NEED TO BE ALIGNED.*
 2. LARGER INTERSECTIONS (36' OR GREATER) OR INTERSECTIONS WITH A SKEW (70° OR LESS): THE PAVEMENT SEPERATION JOINT SHOULD BE CONSIDERED.
 3. IF ENGINEER IS UNABLE TO MATCH JOINTS BETWEEN MAINLINE AND SIDE STREET THE PAVEMENT SEPERATION JOINT SHOULD BE CONSIDERED.
 4. AN ALTERNATIVE IS TO INCREASE THE PAVEMENT THICKNESSES BY 1/2" (13 mm) FOR THE LENGTH OF THE AFFECTED PANELS AT THE INTERSECTION.
 5. FOR LARGE INTERSECTIONS (6 LANES OR MORE) WHERE JOINTS CAN BE MATCHED, USE #8 (25) DOWEL BARS INSTEAD OF #8 (25) TIE BARS AT EDGE OF MAINLINE PAVEMENT WHEN NO PAVEMENT SEPERATION JOINTS USED.

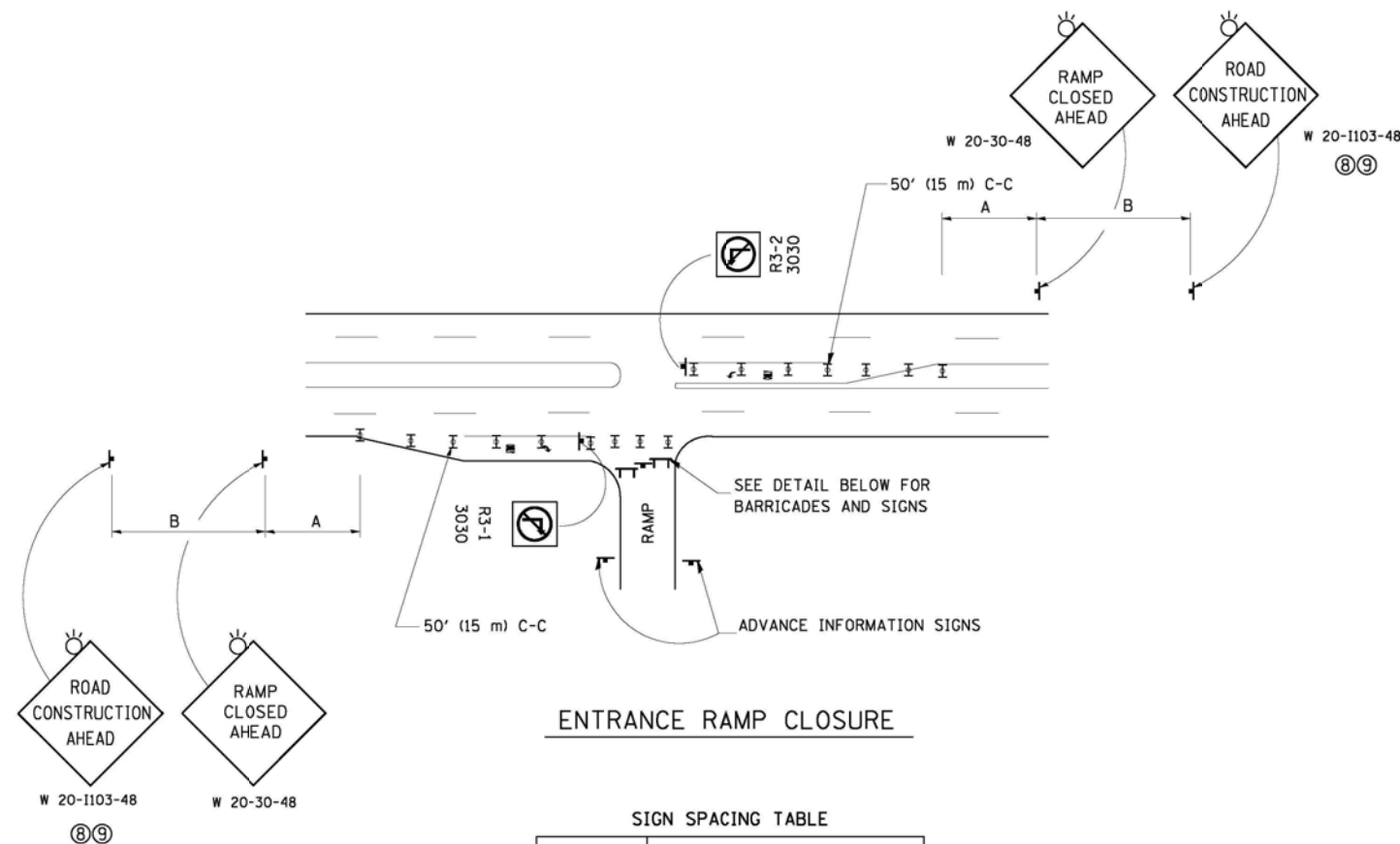


- NOTE:**
1. JOINT FILLER SHALL CONSIST OF A SHEET OF 1/2" (13 mm) BITUMINOUS PREFORMED FIBER JOINT FILLER CONFORMING TO ARTICLE 1051.03 OF THE STANDARD SPECIFICATIONS.
 2. THE JOINT SHALL BE SEALED WITH A HOT POUR JOINT SEALER CONFORMING TO ARTICLE 1050.02 OF THE STANDARD SPECIFICATIONS.
 3. A SINGLE LAYER OF FELT ROOFING PAPER SHALL SERVE AS A BOND BREAKER.
 4. JOINT SHALL CONTINUE THROUGH COMBINATION CURB & GUTTER OR PCC SHOULDER.
 5. PAVEMENT SEPERATION JOINT IS TO BE PAID FOR AS "SLEEPER SLAB" AND IS TO BE MEASURED IN PLACE BY THE LINEAL FOOT.
 6. BOND BREAKER AND 1/2" (13 mm) JOINT AND FILLER SHALL BE INCIDENTAL TO THE PAY ITEM "SLEEPER SLAB".



PROPOSED SECTION A-A

FILE NAME = bd52.dgn	USER NAME = lajso	DESIGNED - DRAWN -	REVISED - REVISED -	CADD 06-18-10	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DETAIL OF PAVEMENT SEPARATION JOINT FOR JOINTED PCC PAVEMENTS AT INTERSECTIONS		F.A. RTE. 55	SECTION 2014-065-R	COUNTY WILL	TOTAL SHEETS 184	SHEET NO. 158
PLOT SCALE = 49,9999 ' / IN.	CHECKED -	REVISED -	REVISED -	SCALE: NONE		SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.	BD52		CONTRACT NO. 62A00	
PLOT DATE = 2/25/2011	DATE -	REVISED -	REVISED -	ILLINOIS FED. AID PROJECT								

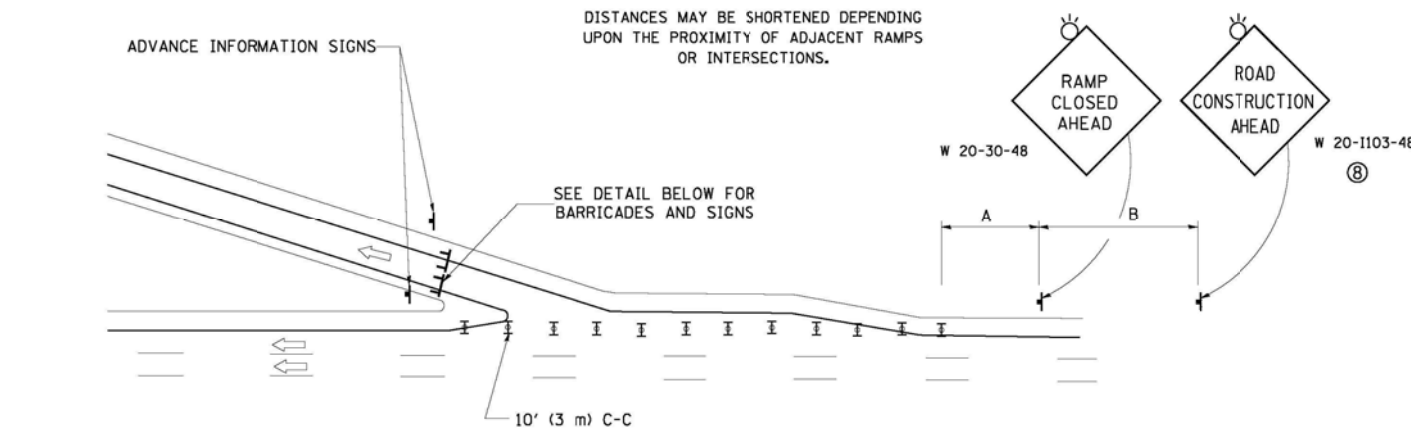


ENTRANCE RAMP CLOSURE

SIGN SPACING TABLE

FACILITY	DISTANCE BETWEEN SIGNS	
	A	B
EXPRESSWAY >24 HOURS	1000' (300 m)	1500' (450 m)
EXPRESSWAY ≤24 HOURS	500' (150 m)	500' (150 m)
ARTERIAL 55 MPH	500' (150 m)	500' (150 m)
ARTERIAL 50-45 MPH	350' (100 m)	350' (100 m)
ARTERIAL <45 MPH	200' (60 m)	200' (60 m)

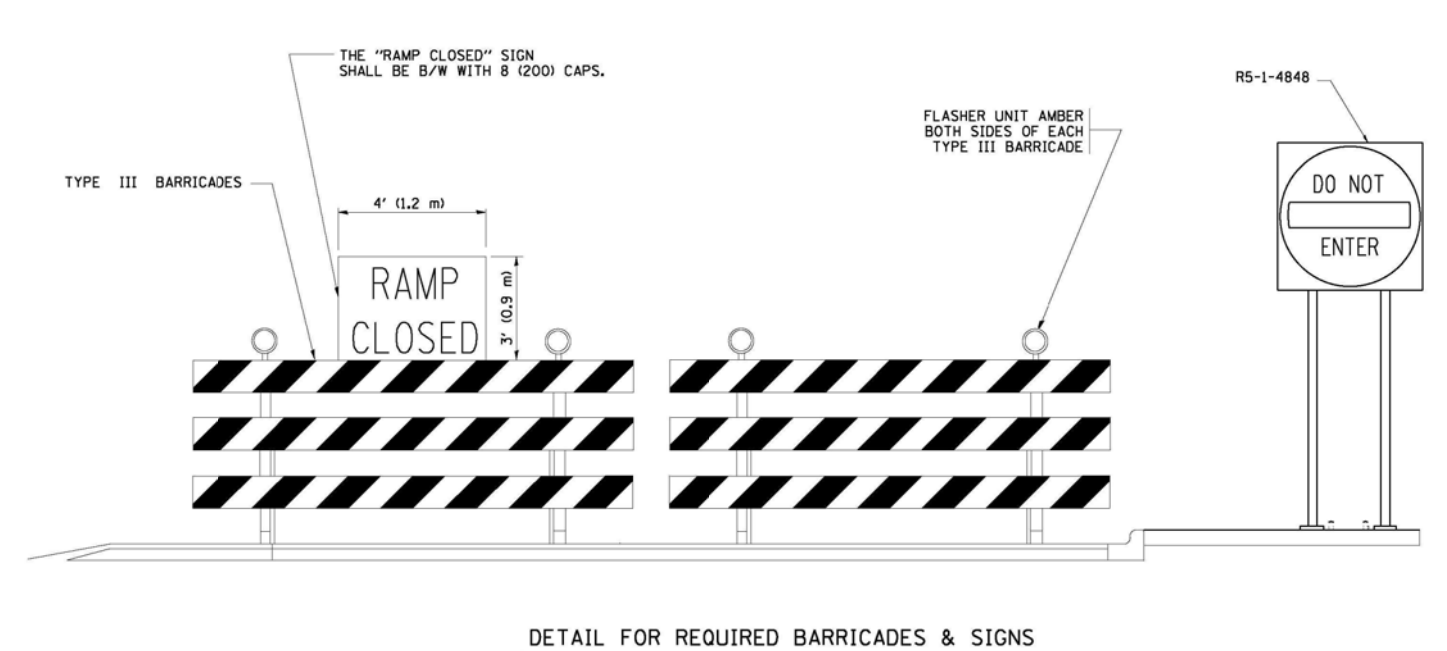
DISTANCES MAY BE SHORTENED DEPENDING UPON THE PROXIMITY OF ADJACENT RAMPS OR INTERSECTIONS.



EXIT RAMP CLOSURE

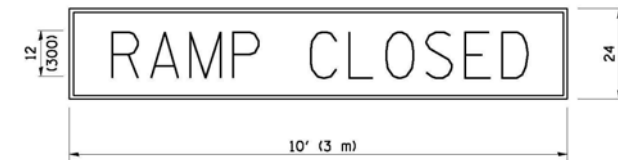
SYMBOLS

- ▬ TYPE II BARRICADE OR DRUM WITH STEADY BURN MONO-DIRECTIONAL LIGHT
- ⊥ TYPE III BARRICADE WITH 2 FLASHING LIGHTS



DETAIL FOR REQUIRED BARRICADES & SIGNS

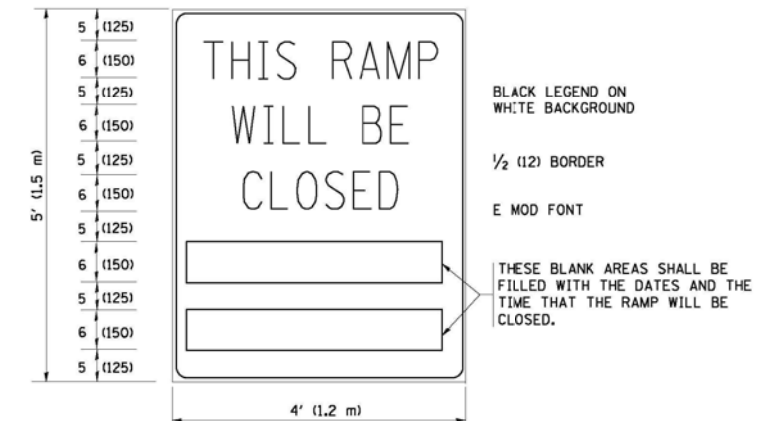
RAMP CLOSURE ADVANCE WARNING SIGN



BLACK LEGEND ON ORANGE BACKGROUND MOUNTED DIAGONALLY E MOD FONT 1 (25) BORDER

THESE SIGNS ARE REQUIRED ON ALL THE EXIT GUIDE SIGNS FOR EXIT RAMPS THAT WILL BE CLOSED FOR MORE THAN FOUR (4) CONSECUTIVE DAYS.

RAMP CLOSURE ADVANCE INFORMATION SIGN



THESE SIGNS ARE REQUIRED ON BOTH SIDES OF THE RAMP, MINIMUM OF 1 WEEK IN ADVANCE OF THE CLOSURE. THESE SIGNS SHALL BE FABRICATED AND PAID FOR ACCORDING TO THE TEMPORARY INFORMATION SIGNING SPECIAL PROVISION

GENERAL NOTES:

- 1 CONES MAY BE SUBSTITUTED FOR DRUMS OR TYPE II BARRICADES DURING DAY OPERATIONS. CONES SHALL BE A MINIMUM OF 28 (700) HIGH.
- 2 STEADY BURN LIGHTS WILL NOT BE REQUIRED FOR DAY OPERATIONS.
- 3 A FLAGGER SHALL BE POSITIONED AT EACH CLOSED RAMP THAT IS OPEN TO CONSTRUCTION VEHICLES, PRECEDED BY A W20-7 FLAGGER WARNING SIGN.
- 4 ALL ROUTE MARKERS AND TRAILBLAZER ASSEMBLIES WHICH DIRECT MOTORISTS TO A CLOSED ENTRANCE RAMP SHALL BE COVERED WHEN THE RAMP IS CLOSED FOR MORE THAN FOUR (4) DAYS.
- 5 THE SIGNING AND BARRICADING WHICH IS REQUIRED BY THIS DETAIL SHALL BE INCLUDED IN THE COST OF TRAFFIC CONTROL AND PROTECTION (EXPRESSWAYS).
- 6 AUTHORIZATION FROM THE DISTRICT'S BUREAU OF TRAFFIC IS REQUIRED FOR ALL RAMP CLOSURES.
- 7 THE RAMP CLOSURE ADVANCE INFORMATION SIGNS SHALL BE ERECTED IF THE CLOSURE TIME EXCEEDS TWENTY-FOUR (24) HOURS. ADDITIONAL ADVANCE WARNING SIGNS ON EXIT GUIDE SIGNING WILL BE REQUIRED FOR EXIT RAMP CLOSURES THAT EXCEED FOUR (4) DAYS IN LENGTH.
- 8 ROAD CONSTRUCTION AHEAD SIGNS MAY BE OMITTED WHEN THIS DETAIL IS USED IN CONJUNCTION WITH OTHER TRAFFIC CONTROL THAT ALREADY INCLUDES A ROAD CONSTRUCTION AHEAD SIGN.
- 9 ARTERIAL ROAD CONSTRUCTION AHEAD SIGNS SHALL BE INSTALLED ON THE LEFT SIDE OF TRAFFIC IF THE MEDIAN IS MORE THAN 10 FT WIDE.

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

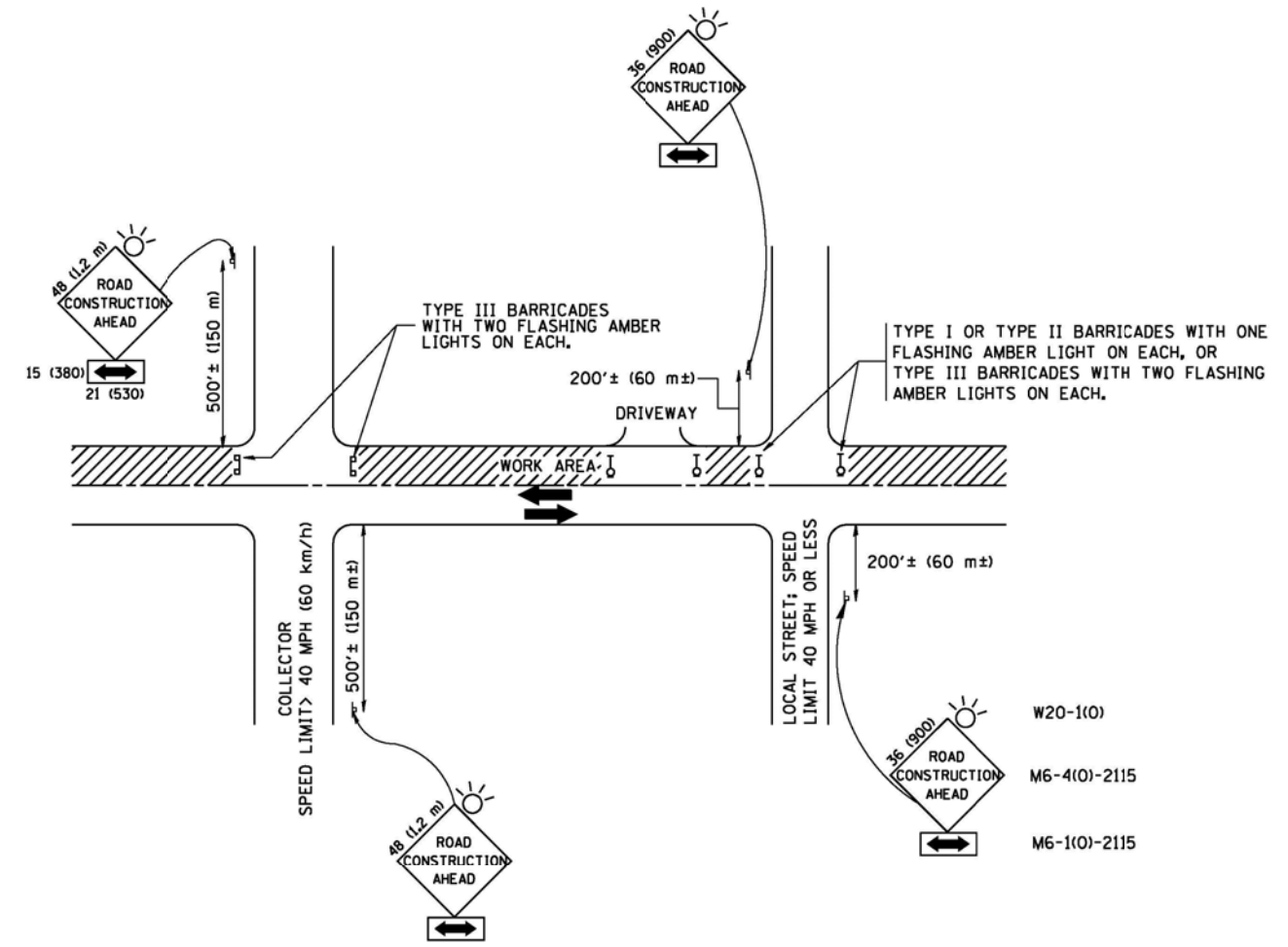
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	PLOT SCALE = 50.000' / 1" =	CHECKED -	REVISED - SPB 12-09
	PLOT DATE = 7/8/2013	DATE - 02-83	REVISED - MD 06-13

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**ENTRANCE AND EXIT RAMP
CLOSURE DETAILS**

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	2014-065-R	WILL	184	159
TC-08			CONTRACT NO. 62A00	
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.

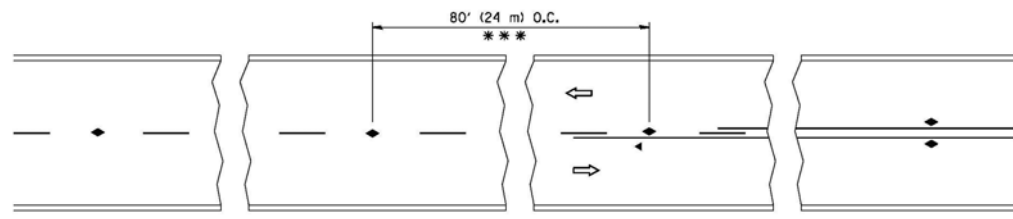
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	PLOT SCALE = 50.000 ' / IN.	CHECKED -	REVISED - A. HOUSEH 10-15-96
	PLOT DATE = 1/4/2008	DATE - 06-89	REVISED - T. RAMMACHER 01-06-00

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

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

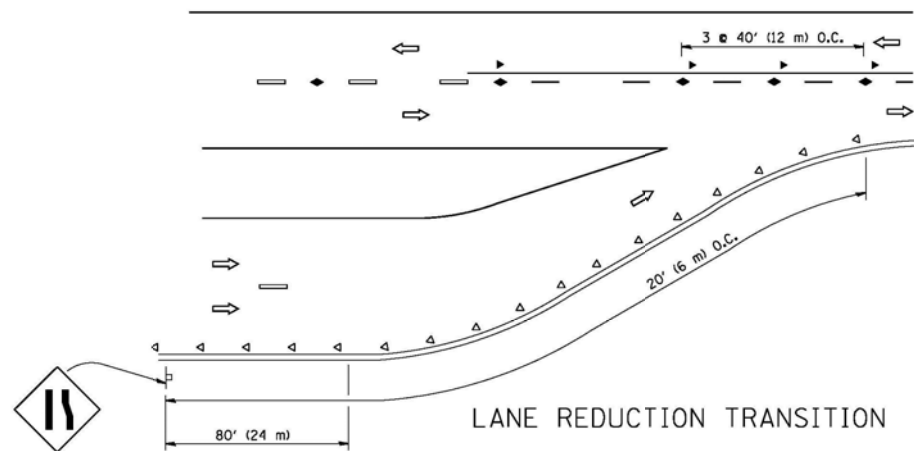
SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.

F.M. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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TC-10			CONTRACT NO. 62A00	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

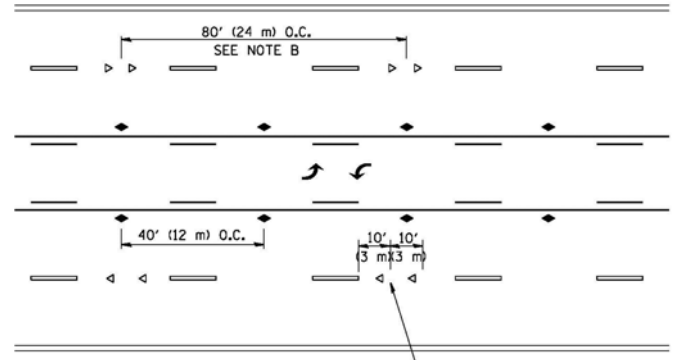


*** REDUCE TO 40' (12 m) O.C. ON CURVES WITH POSTED OR ADVISORY SPEED 45 M.P.H. (70 km/h) OR LESS.

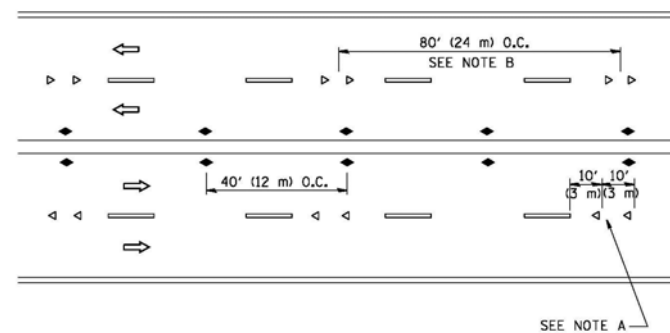
TWO-LANE/TWO-WAY



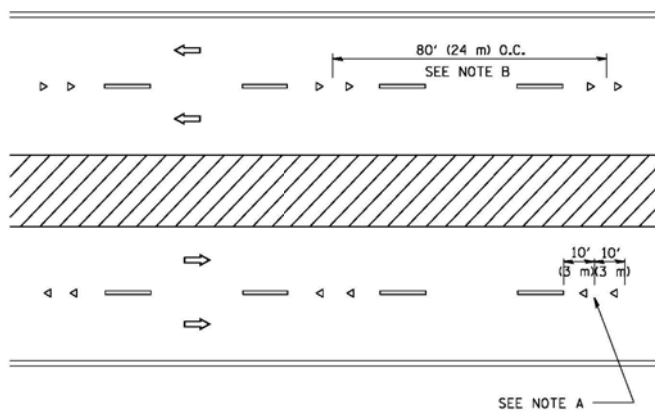
LANE REDUCTION TRANSITION



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

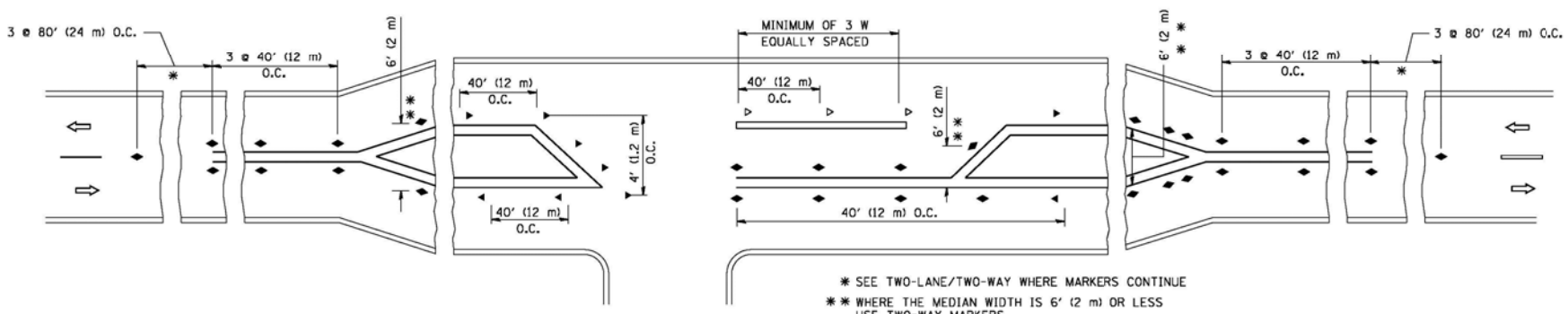
- YELLOW STRIPE
- WHITE STRIPE
- ◀ ONE-WAY AMBER MARKER
- ◀ ONE-WAY CRYSTAL MARKER (W/O)
- ◆ TWO-WAY AMBER MARKER

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 (20 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 SHOULD BE INCLUDED IN THE PLANS.
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' (1.2 m) OR LESS USE TWO-WAY MARKERS.

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

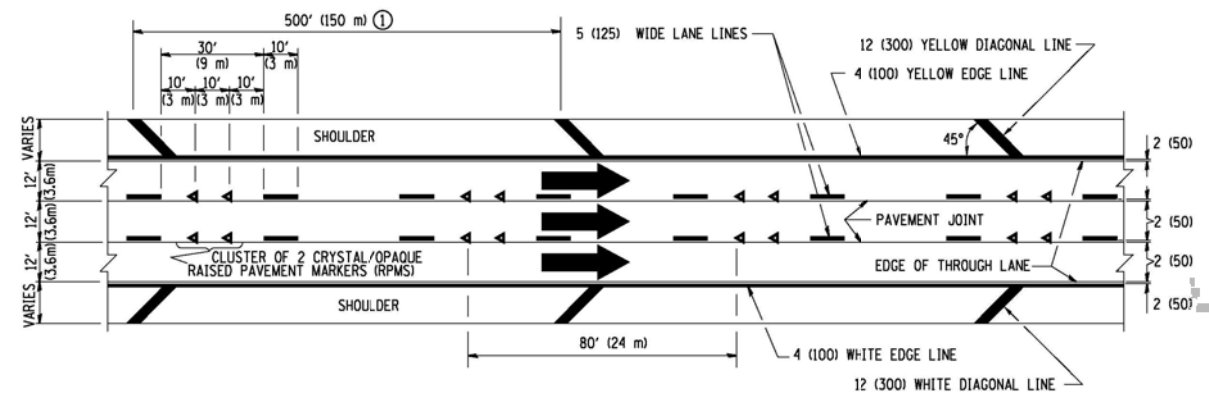
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DRAWN -	CHECKED -	DATE -	REVISED - T. RAMMACHER 03-12-99
PLOT SCALE = 58,000' / IN.			REVISED - T. RAMMACHER 01-06-00
PLOT DATE = 9/9/2009			REVISED - C. JUCIUS 09-09-09

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

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

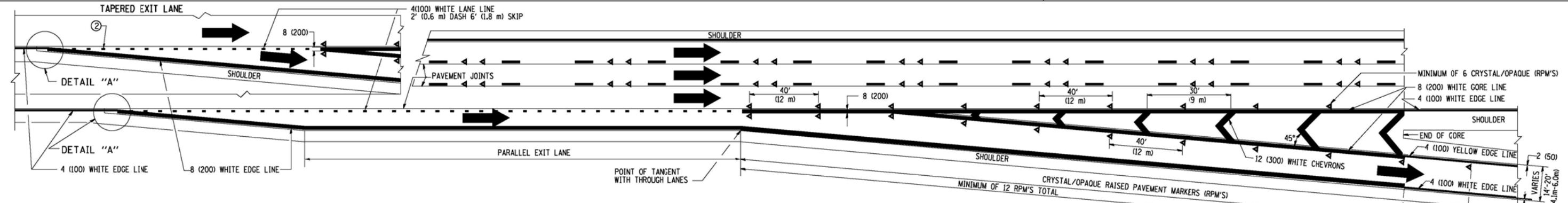
F.A.M. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	2014-065-R	WILL	184	162
TC-11			CONTRACT NO. 62A00	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

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

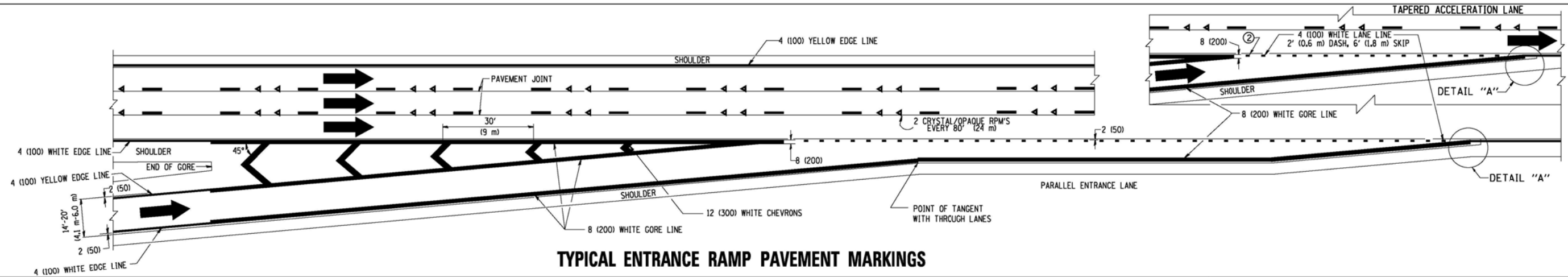


TYPICAL EDGE LINES & LANE LINES

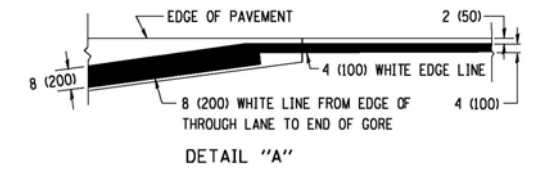
- PAVEMENT MARKING MATERIALS**
1. THERMO PLASTIC PAVEMENT MARKING LINE SHALL BE USED FOR THE EDGE LINES, GORE LINES, AND DIAGONAL LINES ON BITUMINOUS PAVEMENT ONLY.
 2. PREFORMED PLASTIC TYPE B PAVEMENT MARKING LINE; INLAID OR GROOVED IN SHALL BE USED FOR ALL LANE LINES ON HMA PAVEMENT PROJECTS.
 3. POLYUREA PAVEMENT MARKING SHALL BE USED FOR ALL MARKINGS ON PCC PROJECTS.



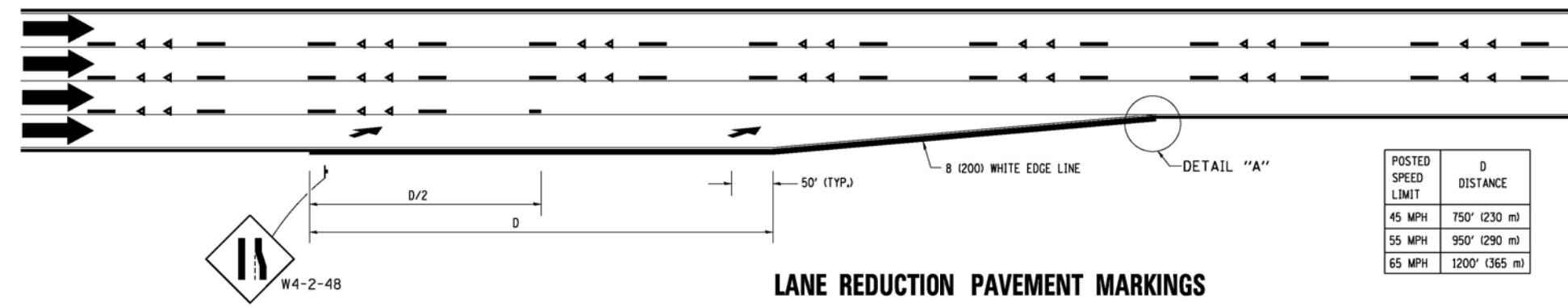
TYPICAL EXIT RAMP PAVEMENT MARKINGS



TYPICAL ENTRANCE RAMP PAVEMENT MARKINGS



- NOTES:**
- ① THE DIAGONAL LINES SHALL BE SPACED AT 40' (12 m) C-C ACROSS ALL STRUCTURES WHICH ARE 500' (150 m) OR LESS IN LENGTH. THE DIAGONAL LINES ARE NOT REQUIRED ON SHOULDERS WHICH ARE 6' (1.8 m) OR LESS IN WIDTH.
 - ② 4" (2' DASH, 6' SKIP) MARKING ON TAPERED ENTRANCE AND EXIT RAMP SHALL BE OMITTED ON TANGENT SECTIONS.



LANE REDUCTION PAVEMENT MARKINGS

POSTED SPEED LIMIT	D DISTANCE
45 MPH	750' (230 m)
55 MPH	950' (290 m)
65 MPH	1200' (365 m)

FILE NAME =
 USER NAME = foatemj
 DESIGNED - D.W.S.
 DRAWN -
 CHECKED -
 PLOT DATE = 7/8/2013

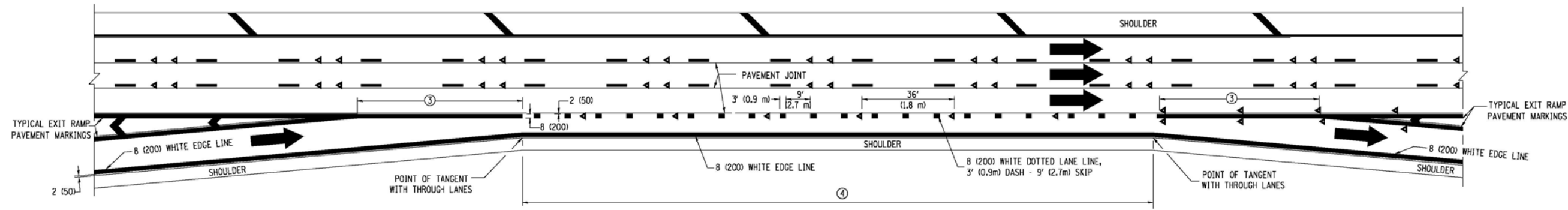
REVISED - J.A.F. 02-06
 REVISED - S.P.B. 01-07
 REVISED - S.P.B. 01-10
 REVISED - M.D. 05-13

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

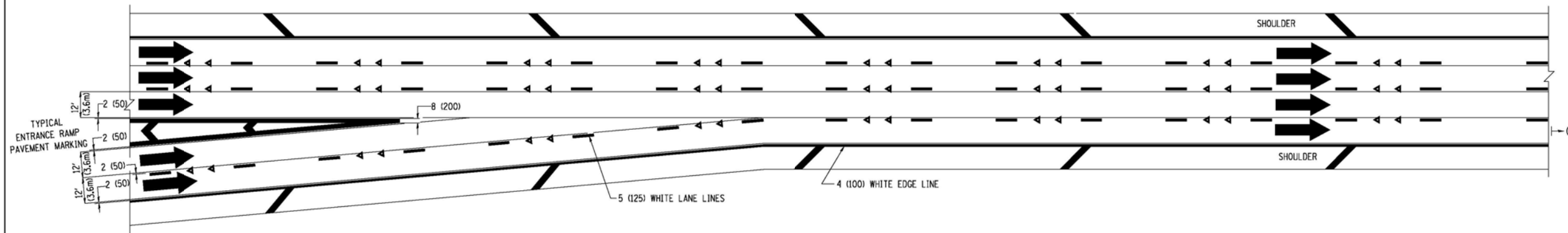
**MULTI-LANE FREEWAY
 PAVEMENT MARKING DETAILS**

SCALE: NONE SHEET NO. 1 OF 2 SHEETS STA. TO STA.

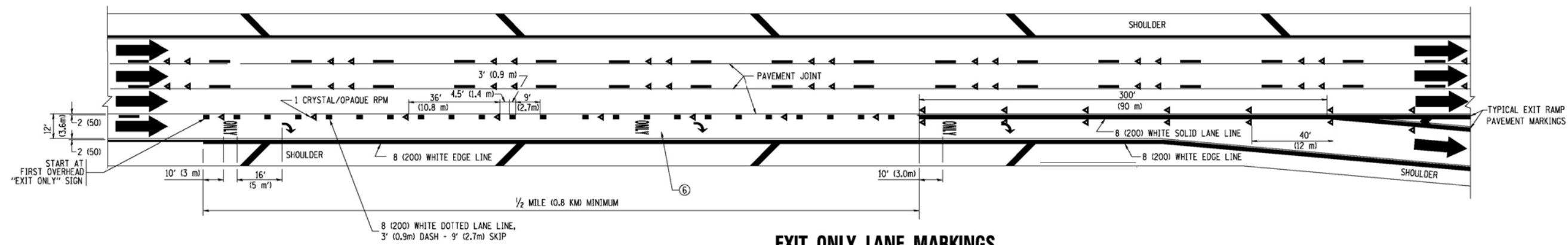
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55	2014-065-R	WILL	184	163
TC-12		CONTRACT NO. 62A00		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



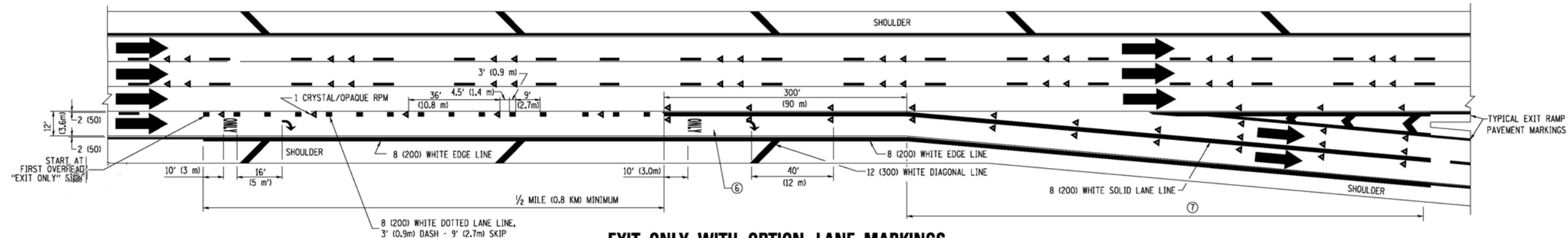
AUXILIARY LANE MARKINGS



TWO LANE ENTRANCE RAMP WITH MERGE MARKINGS



EXIT ONLY LANE MARKINGS



EXIT ONLY WITH OPTION LANE MARKINGS

- NOTES**
- ③ OMIT WHEN LENGTH OF AUXILIARY LANE IS LESS THAN 500' (150 m).
 - ④ 8-INCH WIDE DOTTED LANE LINE MARKINGS SHALL BE USED WHEN THE LENGTH OF THE AUXILIARY LANE IS 2 MILES OR LESS.
 - ⑤ FOR TWO-LANE ENTRANCE RAMP, IF RIGHT LANE ENDS, USE TYPICAL ENTRANCE RAMP PAVEMENT MARKINGS.
 - ⑥ ONLY AND ARROWS EQUALLY SPACED, 500' (150 m) MAXIMUM SPACING. FULL SIZE LETTERS AND ARROW SHALL BE USED.
 - ⑦ CONTINUE 8" SOLID LANE LINE THROUGH EXIT TO END OF PAVED GORE.

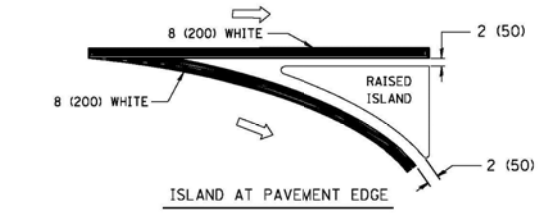
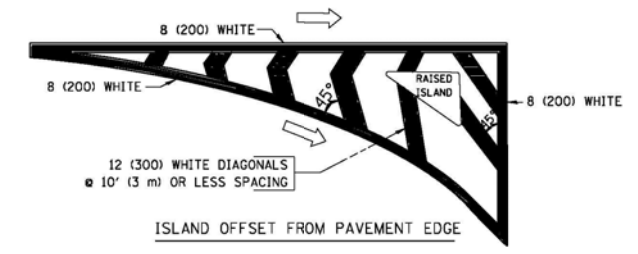
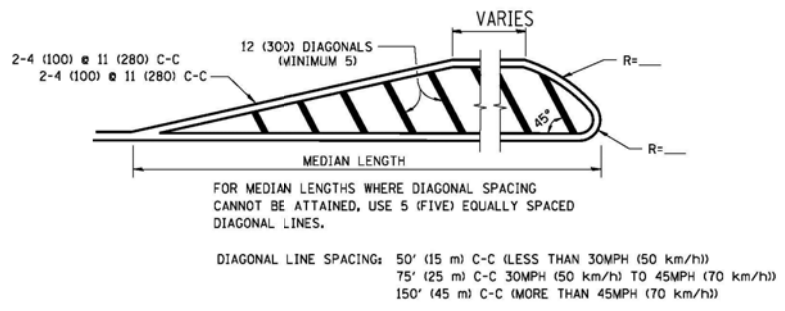
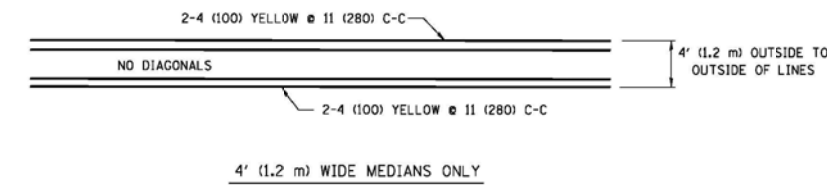
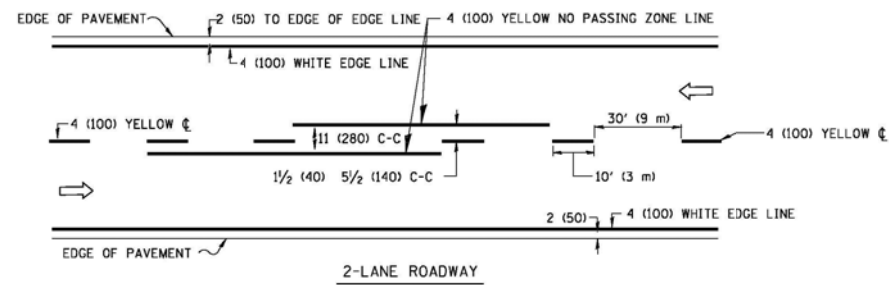
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	PLOT SCALE = 58,000' / IN.	CHECKED -	REVISED - S.P.B. 01-07
	PLOT DATE = 1/22/2010	DATE - 01-90	REVISED - S.P.B. 01-10

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

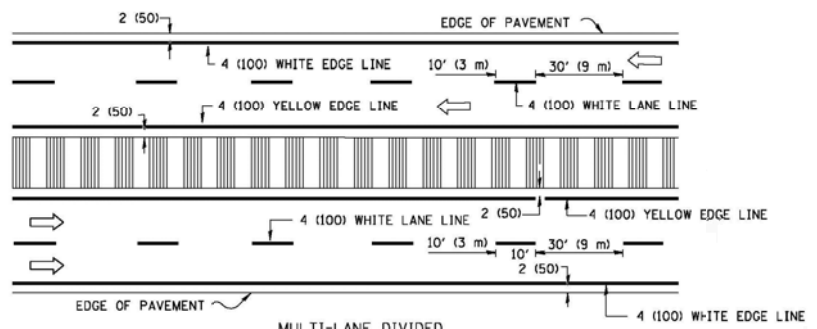
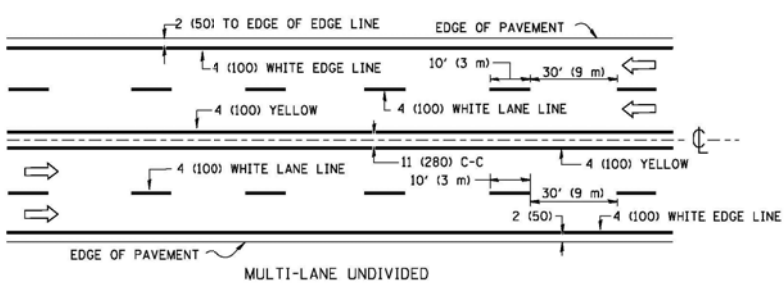
**MULTI-LANE FREEWAY
PAVEMENT MARKING DETAILS**

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

F.A. RTE. 55	SECTION 2014-065-R	COUNTY WILL	TOTAL SHEETS 184	SHEET NO. 164
TC-12		CONTRACT NO. 62A00		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

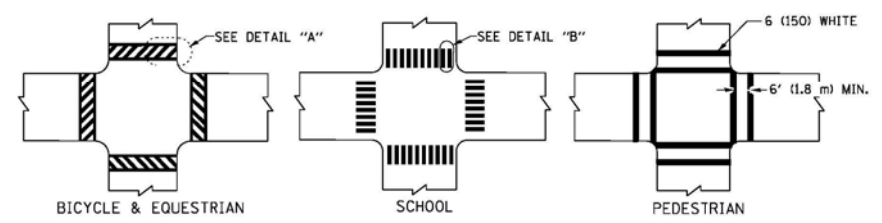


TYPICAL ISLAND MARKING

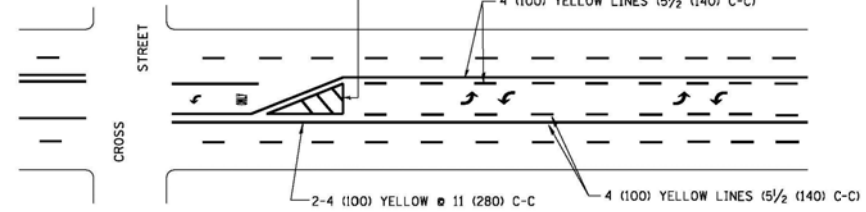


NOTE: MEDIANS WITH BARRIER CURB DO NOT REQUIRE AN EDGE LINE

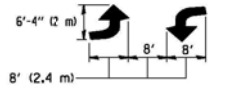
TYPICAL LANE AND EDGE LINE MARKING



TYPICAL CROSSWALK MARKING

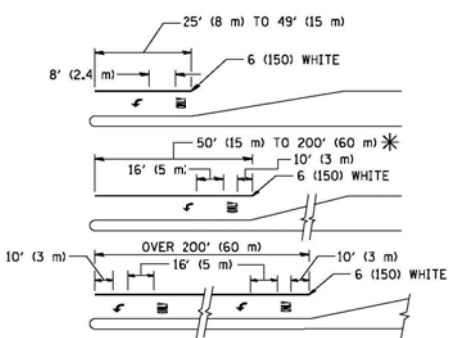


A MINIMUM OF TWO PAIRS OF TURN ARROWS SHALL BE USED, WHITE IN COLOR. ADDITIONAL PAIRS SHALL BE PLACED AT 200' (60 m) TO 300' (90 m) INTERVALS.



MEDIAN WITH TWO-WAY LEFT TURN LANE

TYPICAL PAINTED MEDIAN MARKING



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

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

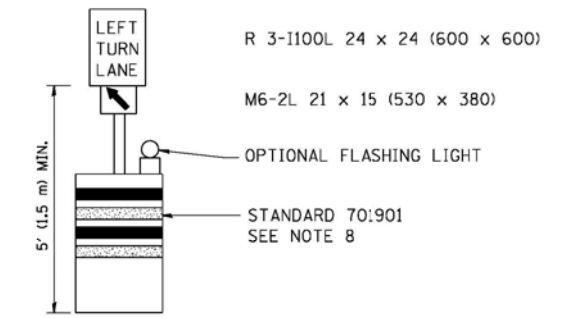
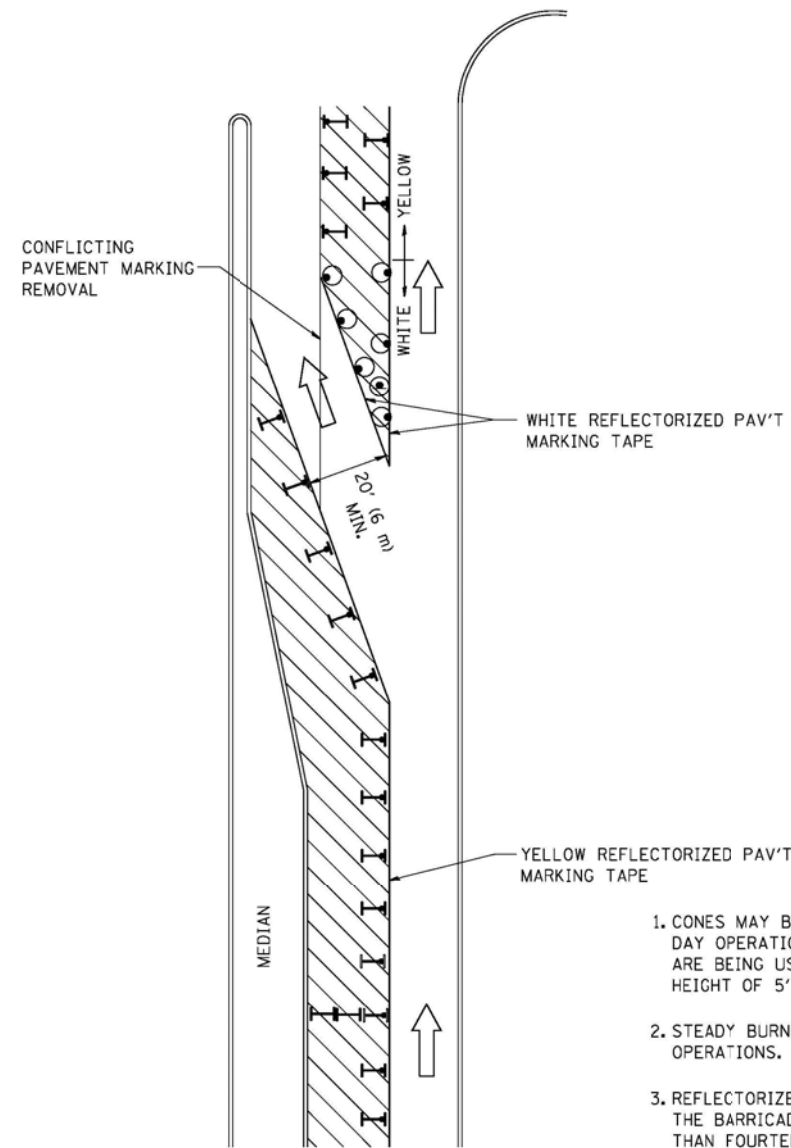
TYPICAL LEFT (OR RIGHT) TURN LANE

TYPICAL TURN LANE MARKING

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) LINES; FULL SIZE LETTERS & SYMBOLS (8' (2.4m))	SOLID	WHITE	SEE TYPICAL TURN LANE MARKING DETAIL
TWO WAY LEFT TURN MARKING	2 @ 4 (100) EACH DIRECTION 8' (2.4m) LEFT ARROW	SKIP-DASH AND SOLID IN PAIRS	YELLOW WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE FOR SKIP-DASH; 5/2 (140) C-C BETWEEN SOLID LINE AND SKIP-DASH LINE SEE TYPICAL TWO-WAY LEFT TURN MARKING DETAIL
CROSSWALK LINES (PEDESTRIAN) A. DIAGONALS (BIKE & EQUESTRIAN) B. LONGITUDINAL BARS (SCHOOL)	2 @ 6 (150) 12 (300) @ 45° 12 (300) @ 90°	SOLID SOLID SOLID	WHITE WHITE WHITE	NOT LESS THAN 6' (1.8 m) APART 2' (600) APART 2' (600) APART SEE TYPICAL CROSSWALK MARKING DETAILS.
STOP LINES	24 (600)	SOLID	WHITE	PLACE 4' (1.2 m) IN ADVANCE OF AND PARALLEL TO CROSSWALK, IF PRESENT. OTHERWISE, PLACE AT DESIRED STOPPING POINT. PARALLEL TO CROSSROAD CENTERLINE, WHERE POSSIBLE
PAINTED MEDIANS	2 @ 4 (100) WITH 12 (300) DIAGONALS @ 45° NO DIAGONALS USED FOR 4' (1.2 m) WIDE MEDIANS	SOLID	YELLOW; TWO WAY TRAFFIC WHITE; ONE WAY TRAFFIC	11 (280) C-C FOR THE DOUBLE LINE SEE TYPICAL PAINTED MEDIAN MARKING.
GORE MARKING AND CHANNELIZING LINES	8 (200) WITH 12 (300) DIAGONALS @ 45°	SOLID	WHITE	DIAGONALS: 15' (4.5 m) C-C (LESS THAN 30MPH (50 km/h)) 20' (6 m) C-C 30MPH (50 km/h) TO 45MPH (70 km/h) 30' (9 m) C-C (OVER 45MPH (70 km/h))
RAILROAD CROSSING	24 (600) TRANSVERSE LINES "RR" IS 6' (1.8 m) LETTERS: 16 (400) LINE FOR "X"	SOLID	WHITE	SEE STATE STANDARD 780001 AREA OF: "R"=3.6 SQ. FT. (0.33 m ²) EACH "X"=54.0 SQ. FT. (5.0 m ²)
SHOULDER DIAGONALS	12 (300) @ 45°	SOLID	WHITE - RIGHT YELLOW - LEFT	50' (15 m) C-C (LESS THAN 30MPH (50 km/h)) 75' (25 m) C-C 30 MPH (50 km/h) TO 45MPH (70 km/h) 150' (45 m) C-C (OVER 45MPH (70 km/h))

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

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



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

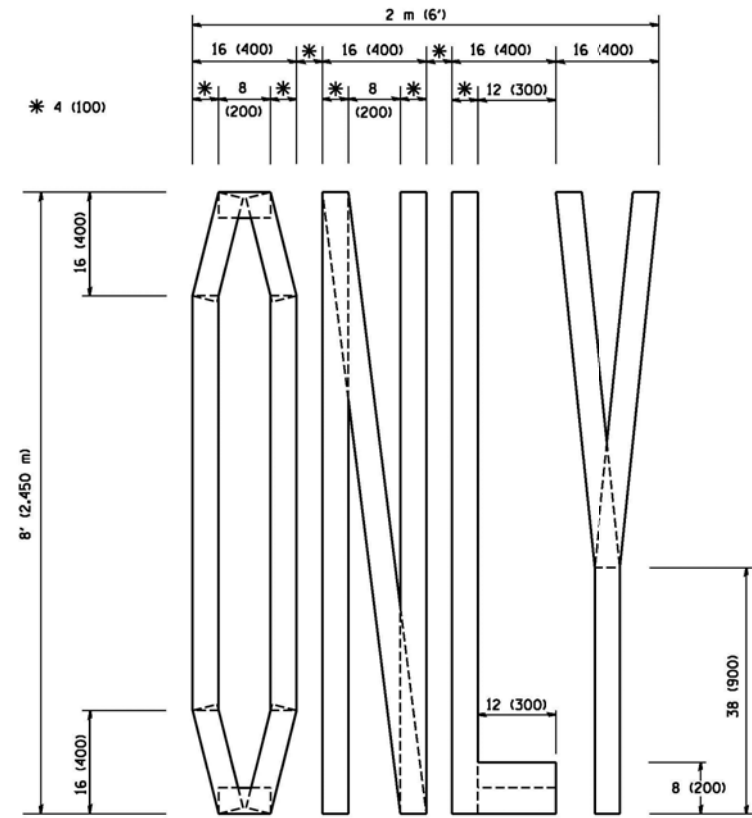
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	PLOT SCALE = 49.9999" / IN.	REVISED - A. HOUSEH 10-12-96	REVISED -
	PLOT DATE = 9/14/2009	REVISED -T. RAMMACHER 01-06-00	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

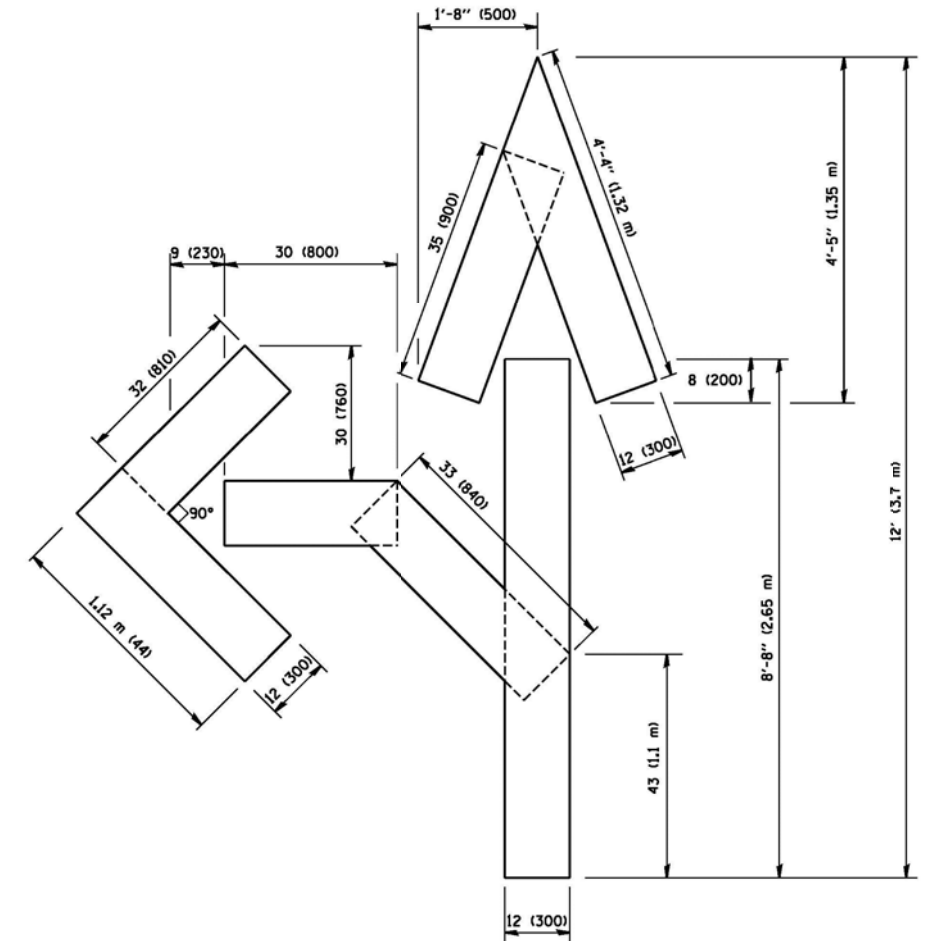
**TRAFFIC CONTROL AND PROTECTION AT TURN BAYS
(TO REMAIN OPEN TO TRAFFIC)**

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

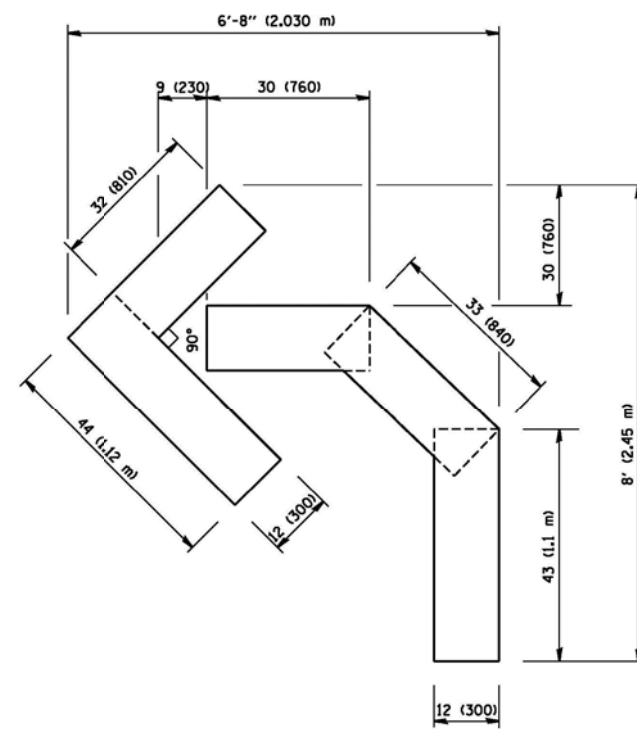
F.A.R. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	2014-065-R	WILL	184	166
TC-14		CONTRACT NO. 62A00		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



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.

FILE NAME = W:\distatd\22x34\to16.dgn	USER NAME = gaglionobt	DESIGNED - DRAWN -	REVISOR - REVISOR -
		CHECKED -	REVISOR -
		DATE - 09-18-94	REVISOR - E. GOMEZ 08-28-00

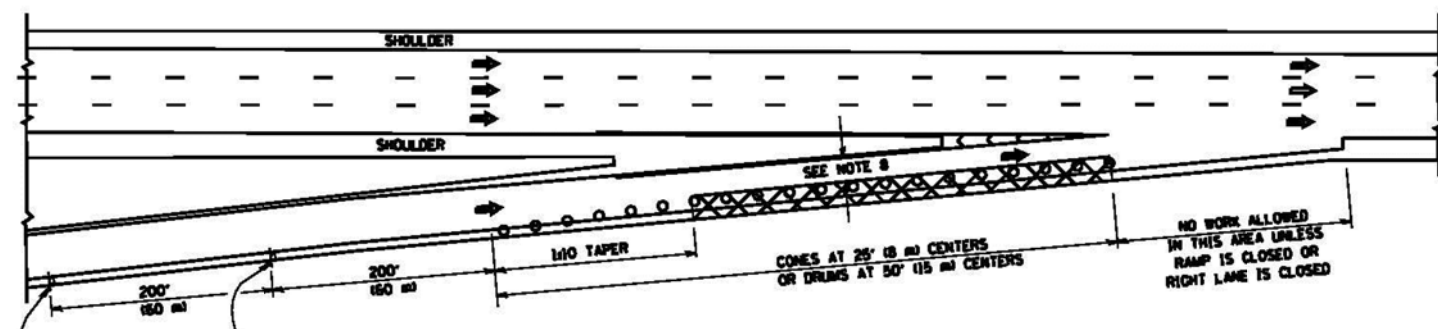
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

PAVEMENT MARKING LETTERS AND SYMBOLS FOR TRAFFIC STAGING			
SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.

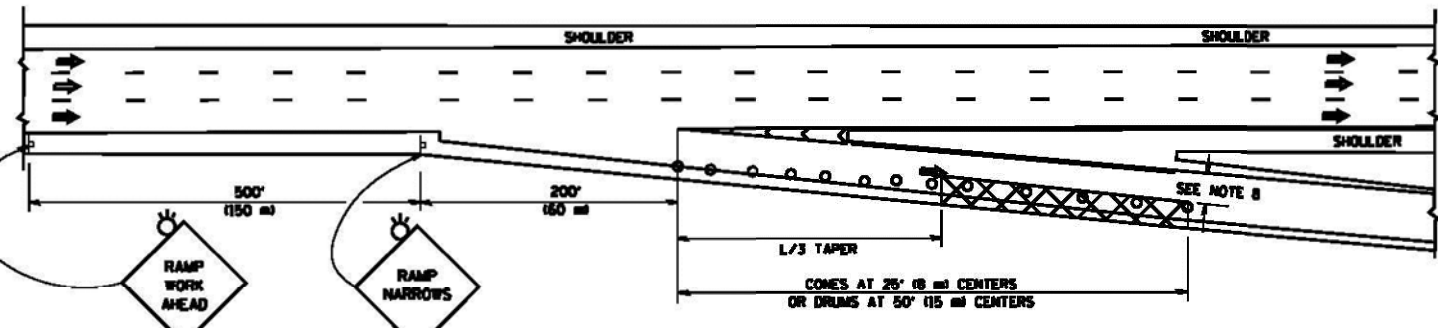
FED. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	2014-065-R	WILL.	184	167
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT			CONTRACT NO. 62A00	

PARTIAL RAMP CLOSURE DETAILS

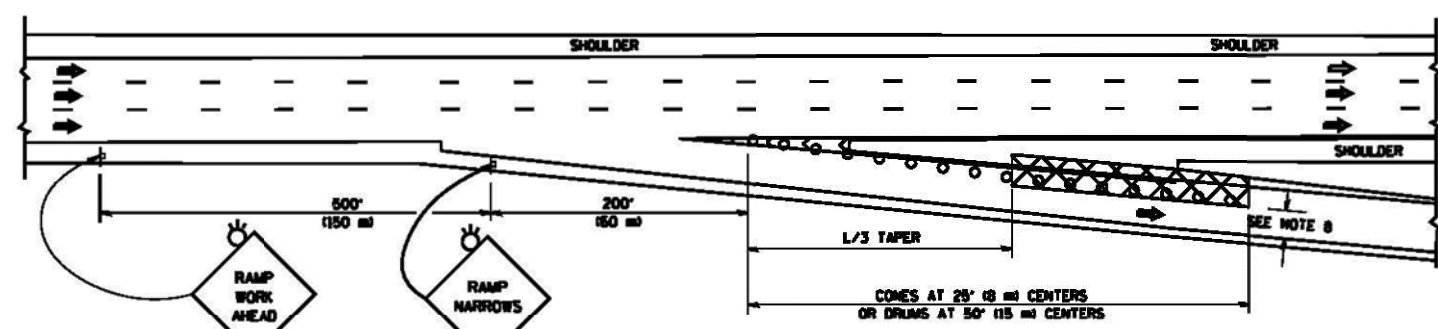
SHOULDER CLOSURE DETAILS



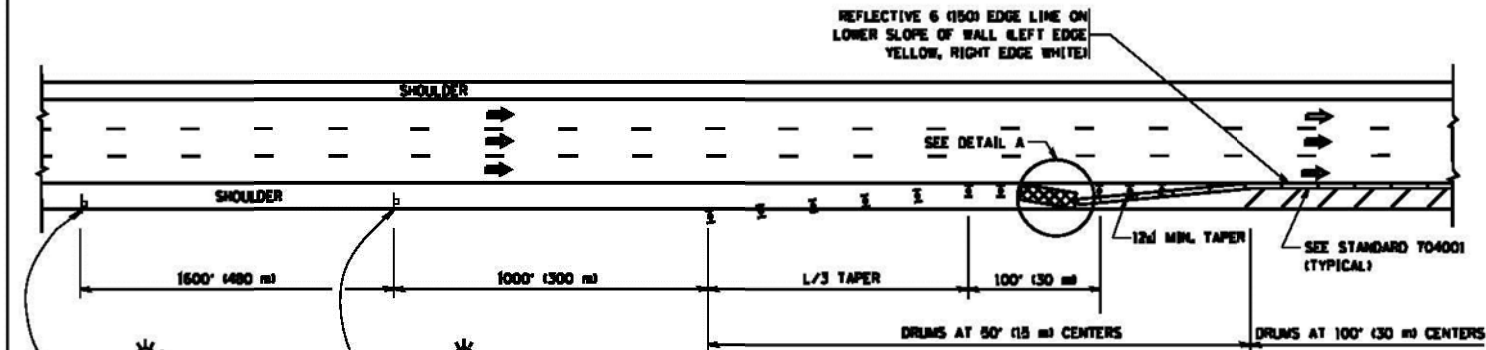
TYPICAL ENTRANCE RAMP



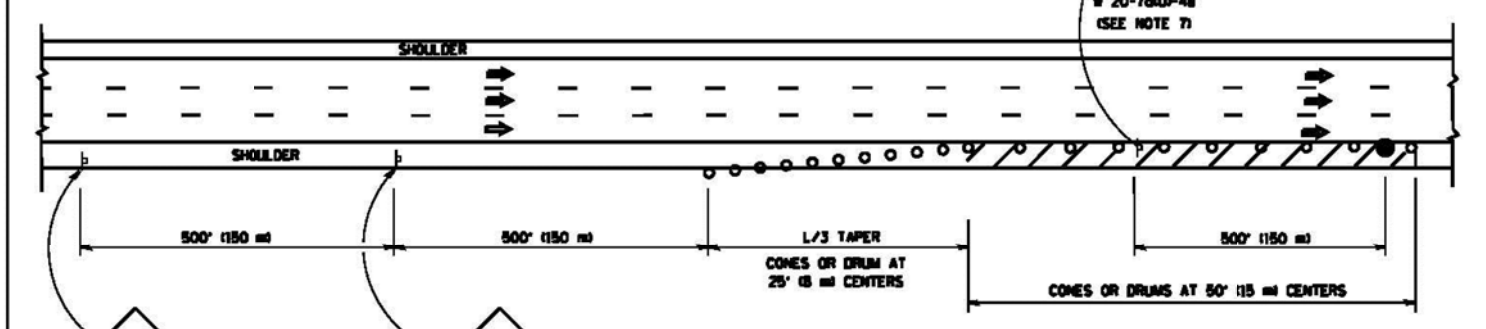
TYPICAL EXIT RAMP



TYPICAL EXIT RAMP



PERMANENT SHOULDER CLOSURE



DAYTIME SHOULDER CLOSURE

SYMBOLS

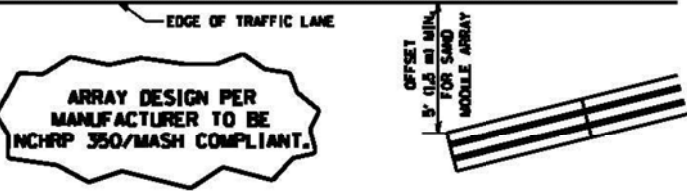
- ACTIVE WORK AREA
- SIGN ON PORTABLE OR PERMANENT SUPPORT
- FLAGGER WITH CONTROL SIGN
- TYPE II BARRICADE OR DRUM WITH STEADY BURN MONO-DIRECTIONAL LIGHT
- CONE, DRUM OR BARRICADE
- IMPACT ATTENUATOR OF TYPE AND TEST LEVEL SPECIFIED

GENERAL NOTES

1. THE "L" DISTANCE EQUALS:

SPEED LIMIT	FORMULAS
45 mph (80 km/h) OR GREATER:	METRIC: $L = 0.66(W/S)$ ENGLISH: $L = W/S$
W = WIDTH OF OFFSET IN FEET (METERS)	
S = NORMAL POSTED SPEED MPH (KM/H)	
2. PLASTIC DRUMS WITH HIGH PERFORMANCE REFLECTIVE SHEETING AND STEADY BURNING LIGHTS ARE REQUIRED FOR ALL NIGHTTIME CLOSURES.
3. ALL SIGNS SHALL BE POST MOUNTED IF THE CLOSURE TIME EXCEEDS FOUR DAYS.
4. FLASHING LIGHTS SHALL BE USED DURING THE HOURS OF DARKNESS AND SHALL BE INSTALLED ABOVE THE FIRST TWO SETS OF SIGNS.

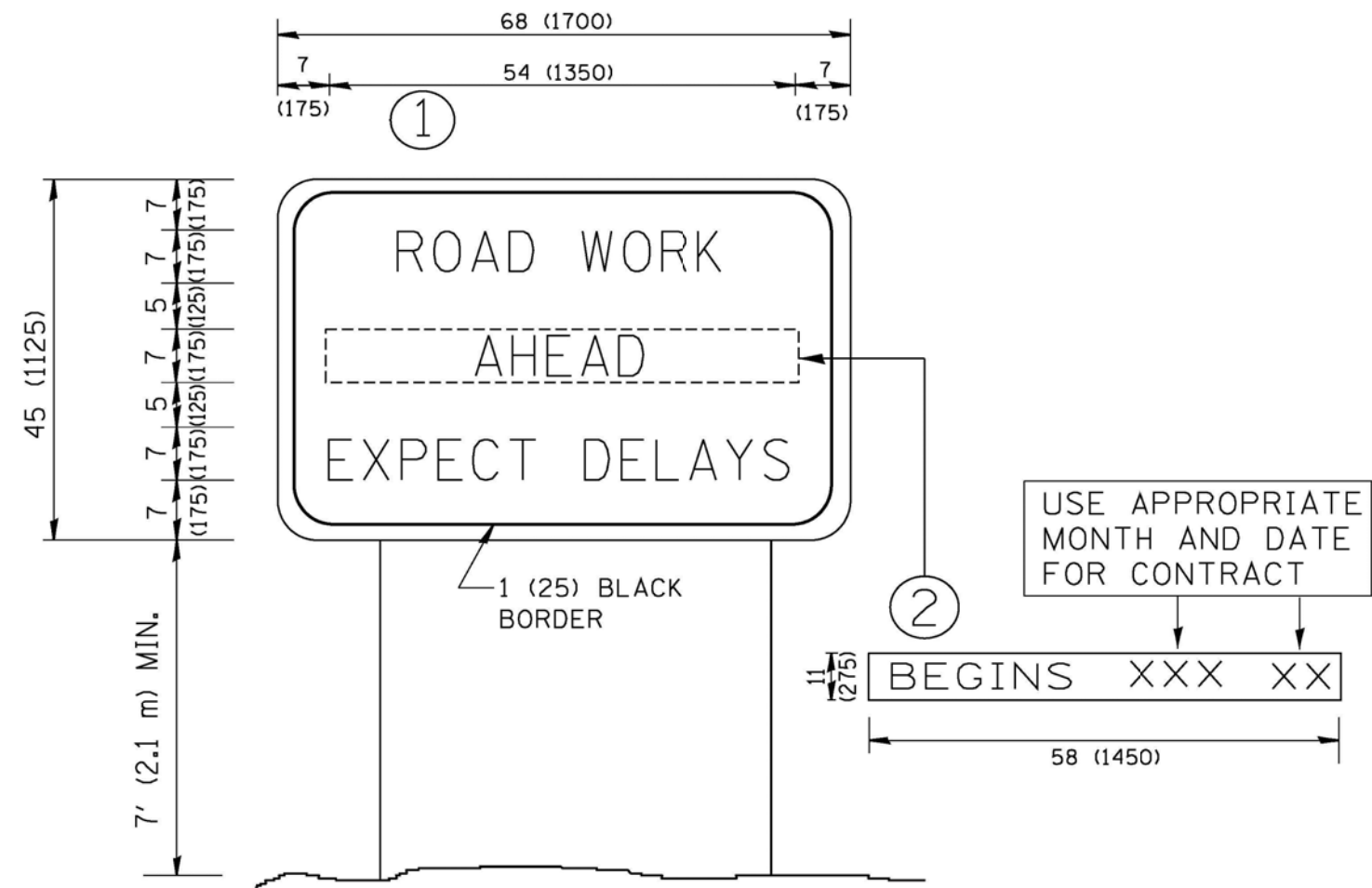
5. THE IMPACT ATTENUATOR, TEMPORARY IS NOT REQUIRED WHEN THE TEMPORARY CONCRETE BARRIER WALL IS PROTECTED BY OR IS TIED INTO THE EXISTING GUARDRAIL. IF OFFSET IS LESS THAN 5 FEET USE NARROW USE TYPE DEVICE TO MEET MCHRP 350/MASH.
6. AUTHORIZATION FROM THE DISTRICT'S BUREAU OF TRAFFIC IS REQUIRED FOR ALL FREEWAY CLOSURES.
7. THE FLAGGER AND FLAGGER SIGN ARE REQUIRED AT THE ABOVE WORK SITES WHEN:
 - a. FOUR OR MORE WORK VEHICLES ENTER THE TRAFFIC LANES IN A ONE HOUR PERIOD.
 - b. THE WORK ACTIVITY REQUIRES FREQUENT ENCROACHMENT INTO THE LANE OPEN TO TRAFFIC. THE FLAGGER SHALL BE STATIONED APPROXIMATELY 100' (30 m) TO 200' (60 m) IN ADVANCE OF THE WORKERS.
8. 12" MIN. WIDTH TANGENT SECTION
16" MIN. WIDTH CURVE SECTION.



**DETAIL "A"
[IMPACT ATTENUATOR, TEMPORARY
(SEE NOTE 5)]**

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

FILE NAME =	USER NAME = lujan	DESIGNED -	REVISED - J.A.F. 12-06	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TRAFFIC CONTROL DETAILS FOR FREEWAY SHOULDER CLOSURES AND PARTIAL RAMP CLOSURES	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
es\pa_wor\periods\lujan\dl06315\1017.dgn		DRAWN - D.W.S.	REVISED - S.P.B. 01-07			55	2014-065-R	WILL	184	168
		CHECKED -	REVISED - S.P.B. 12-09			TC-17				
		DATE - 11-96	REVISED - M.D. 06-13			CONTRACT NO. 62A00				
						SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA. TO STA.	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.

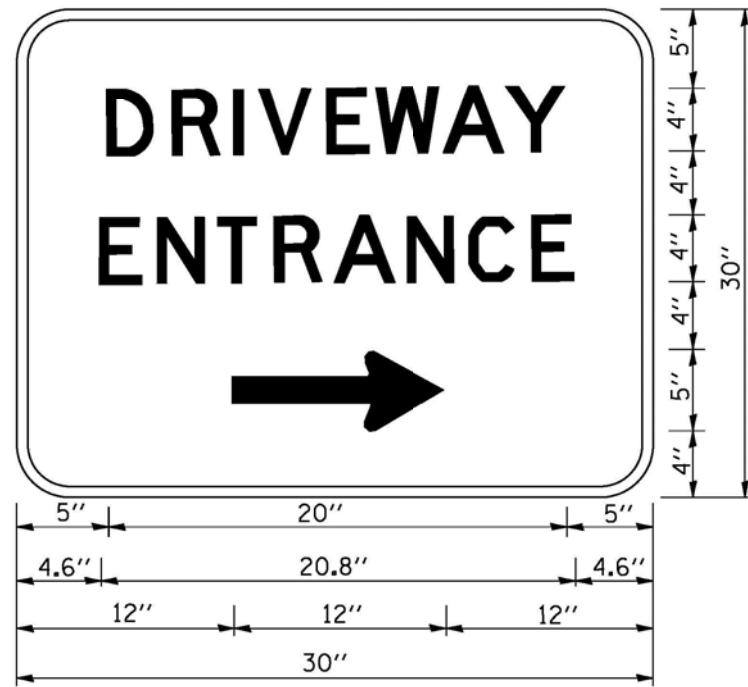
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		DRAWN -	REVISED - R. MIRS 12-11-97
		CHECKED -	REVISED - T. RAMMACHER 02-02-99
		DATE -	REVISED - C. JUCIUS 01-31-07

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ARTERIAL ROAD
INFORMATION SIGN

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

F&A RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	2014-065-R	WILL	184	169
TC-22			CONTRACT NO. 62A00	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



3.0" RADIUS, 0.5" BORDER, WHITE ON GREEN; REFLECTORIZED
 "DRIVEWAY" D; "ENTRANCE" D; STANDARD ARROW CUSTOM 12.0" x 5.0"

NOTES:

1. HALF OF THE SIGNS WILL REQUIRE A LEFT HAND FACING ARROW.
2. TWO SIGNS SHALL BE USED AT EACH COMMERCIAL ENTRANCE
 PLACED BACK-TO-BACK: ONE WITH A RIGHT HAND ARROW (SHOWN)
 SHALL BE PLACED ON THE NEAR RIGHT SIDE THE DRIVEWAY
 AND ONE WITH A LEFT HAND ARROW SHALL BE PLACED ON THE
 FAR LEFT SIDE OF THE DRIVEWAY.
3. SIGNS TO BE PAID FOR AS ITEM "TEMPORARY INFORMATION SIGNING".

FILE NAME = W:\distatd\22x34\to26.dgn	USER NAME = goglionobt	DESIGNED -	REVISED - C. JUCIUS 02-15-07
		DRAWN -	REVISED -
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	PLOT DATE = 1/4/2008	DATE -	REVISED -

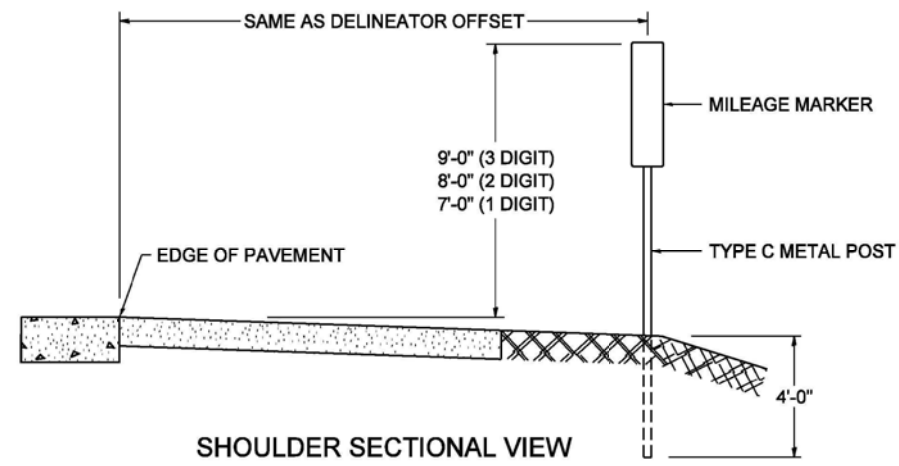
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

DRIVEWAY ENTRANCE SIGNING

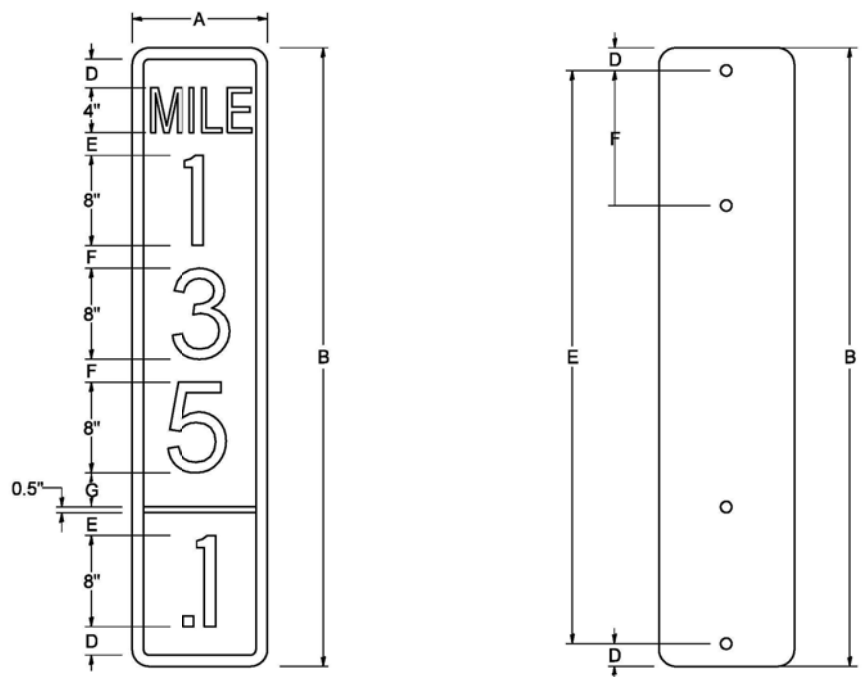
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F&A RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	2014-065-R	WILL	184	170
TC-26			CONTRACT NO. 62A00	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

STANDARD DESIGN FOR MILE POST



SHOULDER SECTIONAL VIEW

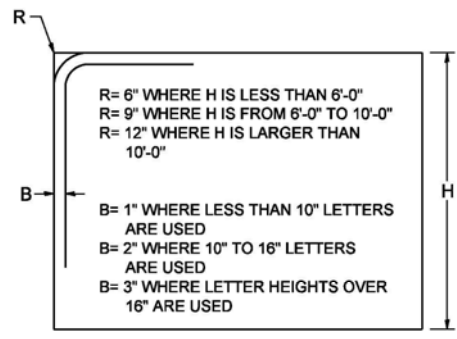


SIGN SIZE	DIMENSIONS							
	A	B	C	D	E	F	G	DIGIT
12 x 24	12.0	24.0	1.5	1.5	1.5	N/A	1.5	1
12 x 36	12.0	36.0	1.5	2.0	2.0	2.0	1.5	2
12 x 48	12.0	48.0	1.5	2.5	2.0	2.0	2.5	3

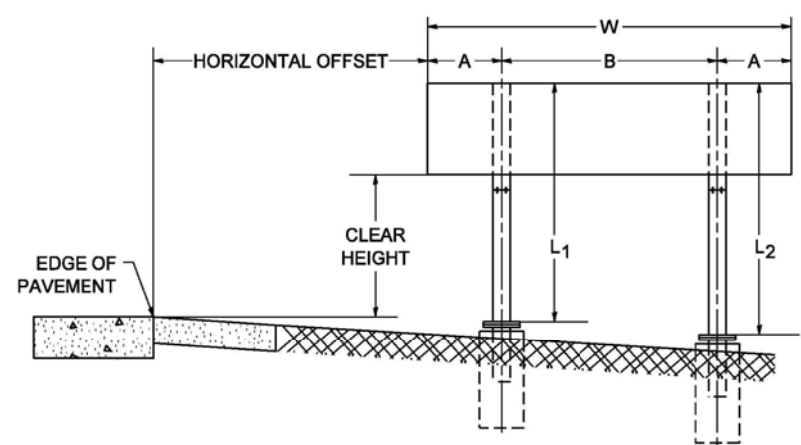
BLANK	A	B	C	D	E	F
B9-1224	12.0	24.0	1.5	2.0	20.0	N/A
B9-1236	12.0	36.0	1.5	2.0	32.0	12.0
B9-1248	12.0	48.0	1.5	2.0	44.0	12.0

SIGN SIZE	SERIES					BORDER	BLANK STD.
	LINES						
	1	2	3	4	5		
12 x 24	4C	8D	4C	N/A	N/A	0.5	B9-1224
12 x 36	4C	8D	8D	4C	N/A	0.5	B9-1236
12 x 48	4C	8D	8D	8D	4C	0.5	B9-1248

BORDER AND RADIUS LAYOUT



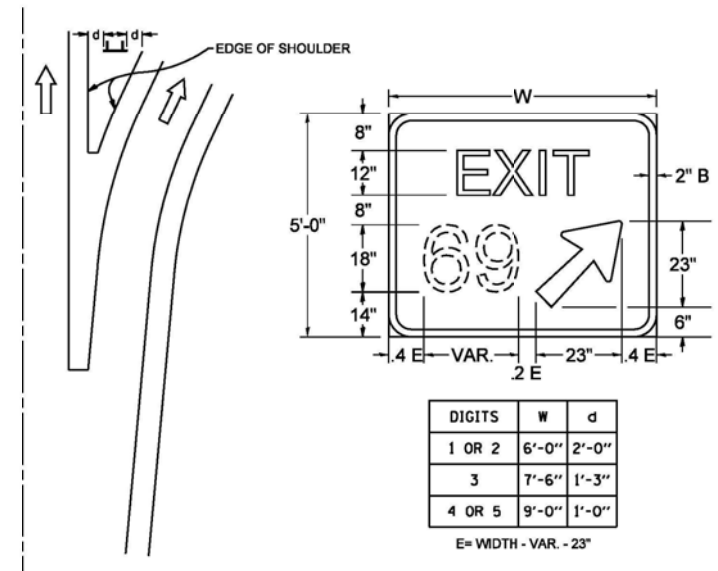
MAJOR GUIDE SIGN LAYOUT



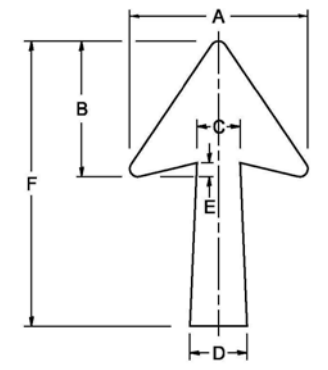
NUMBER OF STEEL SUPPORTS	A	B
2	.2 W	.6 W
3	.15 W	.35 W
4	.125 W	.25 W
5	.1 W	.2 W

"L₁" IS THE LENGTH OF SUPPORT, NOT INCLUDING THE STUB PROJECTION, CLOSEST TO THE EDGE OF THE PAVEMENT.
 "A" IS THE DISTANCE FROM THE SIGN EDGE TO THE CENTERLINE OF THE NEAREST SUPPORT. "B" IS THE DISTANCE BETWEEN CENTERLINES OF SUPPORTS.

GORE SIGNS

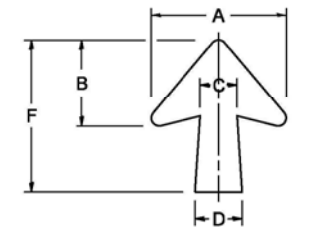


STANDARD ARROWS FOR INTERSTATE GUIDE SIGNS



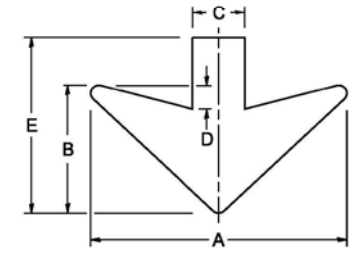
ARROW SYMBOL	A	B	C	D	E	F	R
24 1/4 x 15 1/8	15 1/8	11 3/8	3 3/4	5	1 1/8	24 1/4	3/8
29 1/4 x 18 1/4	18 1/4	14	4 1/2	6	1 1/2	29 1/4	3/4
35 5/8 x 22 1/4	22 1/4	17	5 3/8	7 1/8	1 3/4	35 5/8	1
18 1/4 x 11 1/4	11 1/4	8 3/4	3 3/8	3 3/8		18 1/4	

NOTE: D & F ARE RECOMMENDED DIMENSIONS. TAPER SHOULD BE HELD CONSTANT FOR LONGER OR SHORTER SHAFT LENGTHS



ARROW SYMBOL	A	B	C	D	E	F	R
17 1/4 x 14 1/4	14 1/4	9 3/8	3 3/8	4 1/2	5/8	17 1/4	3/4
20 1/4 x 17 1/4	17 1/4	11 3/4	4 3/8	5 5/8	1 1/2	20 1/4	1
25 x 21 1/8	21 1/8	14 1/4	5	6 3/4	1 3/4	25	1
9 3/8 x 8 3/8	8 3/8	5 3/8	2 3/8	2 3/8		9 3/8	1/2

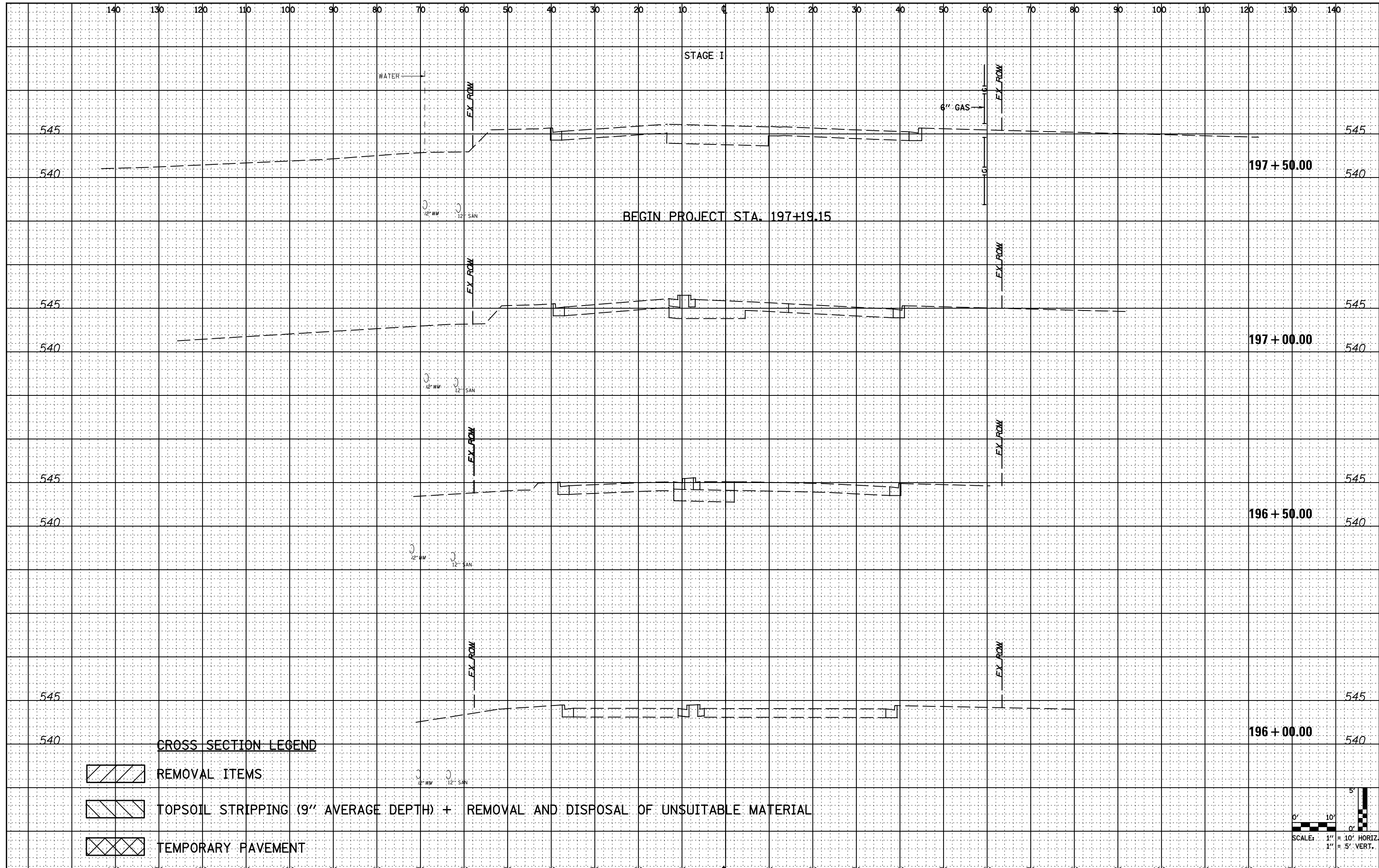
DOWN ARROWS



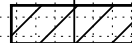
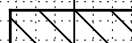
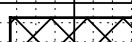
ARROW SYMBOL	A	B	C	D	E	R
16 1/2 x 24	24	12	5	1 1/2	16 1/2	3/4
22 x 32	32	16	6 1/2	3	22	1

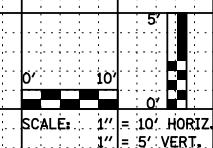
DATE	
BY	
FINAL SURVEY	
SURVEYED	
PLOTTED	
TEMPLATE	
NO. BOOK	
AREAS CHECKED	

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



CROSS SECTION LEGEND

-  REMOVAL ITEMS
-  TOPSOIL STRIPPING (9" AVERAGE DEPTH) + REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL
-  TEMPORARY PAVEMENT



FILE NAME = D162A00-sht-US6.dgn
 PLOT DATE = 1/19/2016
 PLOT SCALE = 20.0000' / 1"

CR
 CHRISTIAN-ROGE & ASSOCIATES, INC.
 ENGINEERS-PLANNERS-SURVEYORS
 221 NORTH LASALLE STREET, SUITE 300
 CHICAGO, ILLINOIS 60601
 PHONE: (312) 577-3300

DESIGNED	- S.J.P.	REVISED	-
DRAWN	- B.K.	REVISED	-
CHECKED	- M.P.	REVISED	-
DATE	- JANUARY 18, 2016	REVISED	-

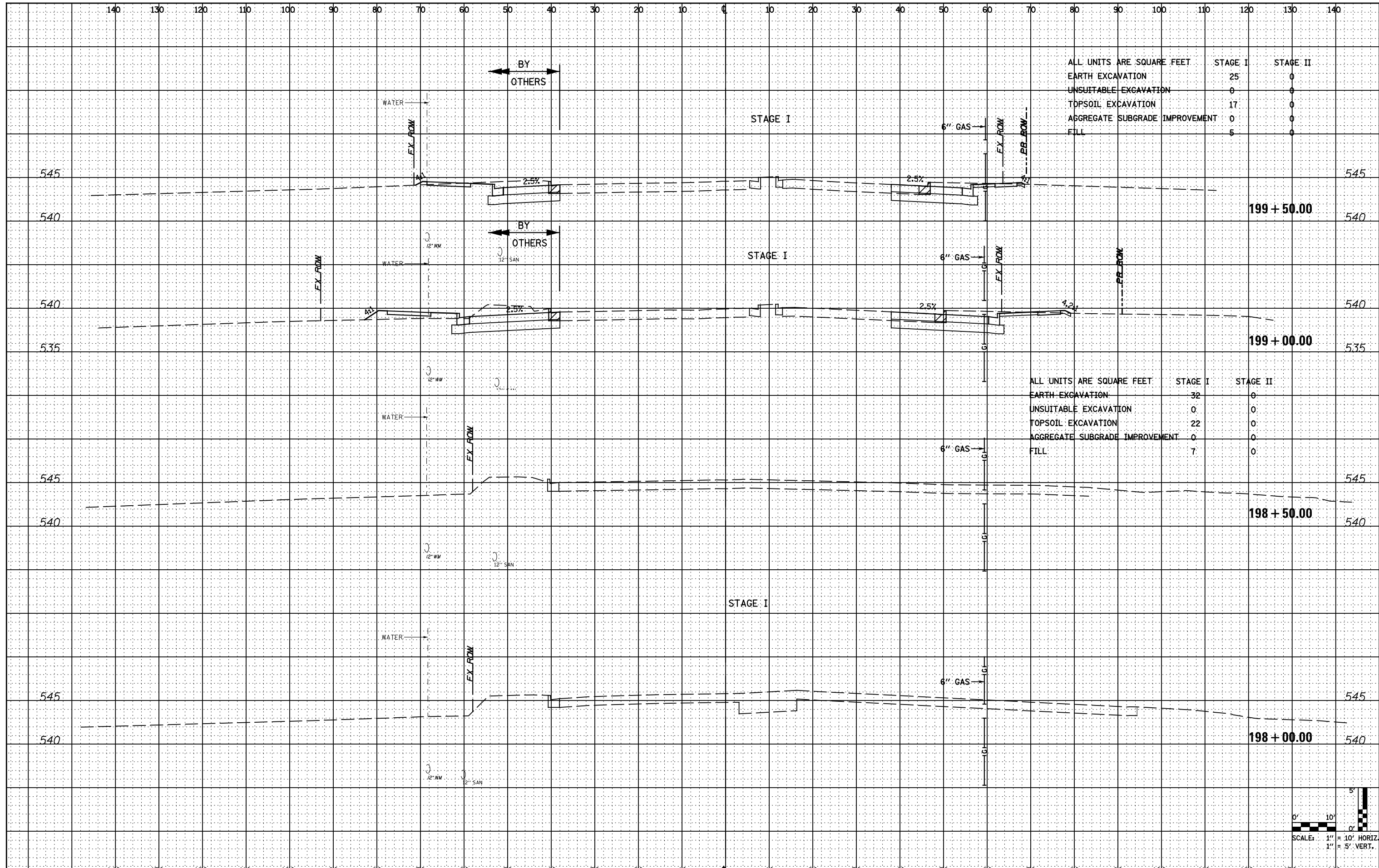
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

CROSS SECTIONS U.S. 6	
SCALE: NONE	SHEET NO. 1 OF 6 SHEETS
STA.	TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	2014-065-R	WILL	184	172
FED. ROAD DIST. NO. 1 ILLINOIS			CONTRACT NO. 62A00	
FED. AID PROJECT				

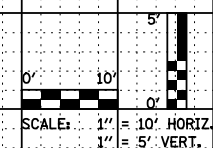
DATE	
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ORIGINAL SURVEY	
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TEMPLATE	
NOTE BOOK	
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AREAS CHECKED	

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



ALL UNITS ARE SQUARE FEET	STAGE I	STAGE II
EARTH EXCAVATION	25	0
UNSUITABLE EXCAVATION	0	0
TOPSOIL EXCAVATION	17	0
AGGREGATE SUBGRADE IMPROVEMENT	0	0
FILL	5	0

ALL UNITS ARE SQUARE FEET	STAGE I	STAGE II
EARTH EXCAVATION	32	0
UNSUITABLE EXCAVATION	0	0
TOPSOIL EXCAVATION	22	0
AGGREGATE SUBGRADE IMPROVEMENT	0	0
FILL	7	0



FILE NAME = D162A00-sht-US6.dgn
 PLOT DATE = 1/19/2016
 PLOT SCALE = 20.0000' / 1"

CR
 CHRISTIAN-ROGE & ASSOCIATES, INC.
 ENGINEERS-PLANNERS-SURVEYORS
 221 NORTH LASALLE STREET, SUITE 300
 CHICAGO, ILLINOIS 60601
 PHONE: (312) 577-3300

DESIGNED - S.J.P.	REVISED -
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CHECKED - M.P.	REVISED -
DATE - JANUARY 18, 2016	REVISED -

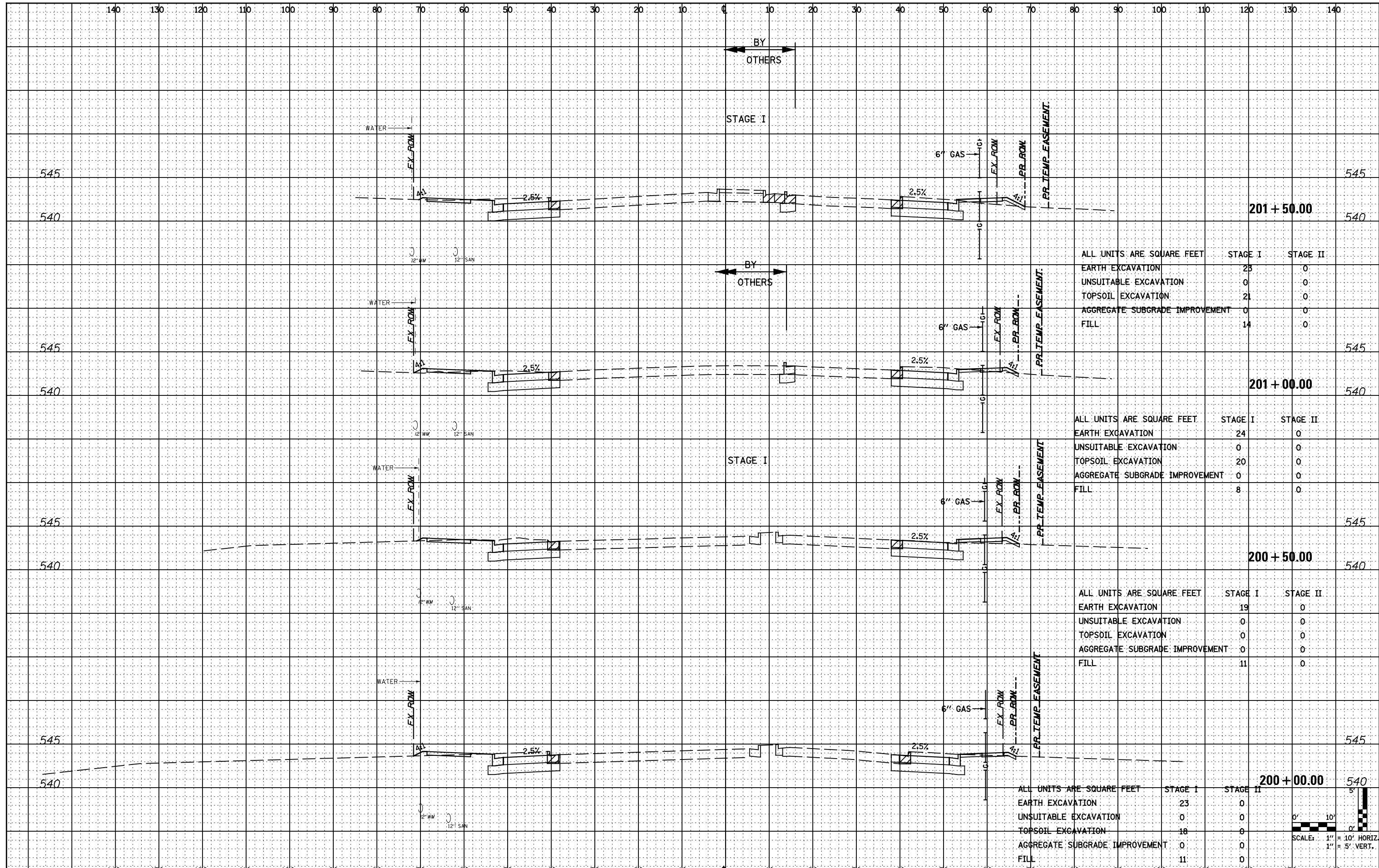
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

CROSS SECTIONS U.S. 6	
SCALE: NONE	SHEET NO. 2 OF 6 SHEETS
STA.	TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	2014-065-R	WILL	184	173
CONTRACT NO. 62A00				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

DATE	
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FINAL SURVEY	
SURVEYED	
PLOTTED	
TEMPLATE	
NOTE BOOK	
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AREAS CHECKED	

DATE	
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ORIGINAL SURVEY	
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PLOTTED	
TEMPLATE	
NOTE BOOK	
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AREAS CHECKED	

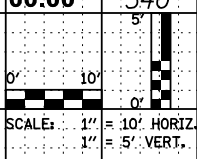


ALL UNITS ARE SQUARE FEET	STAGE I	STAGE II
EARTH EXCAVATION	25	0
UNSUITABLE EXCAVATION	0	0
TOPSOIL EXCAVATION	21	0
AGGREGATE SUBGRADE IMPROVEMENT	0	0
FILL	14	0

ALL UNITS ARE SQUARE FEET	STAGE I	STAGE II
EARTH EXCAVATION	24	0
UNSUITABLE EXCAVATION	0	0
TOPSOIL EXCAVATION	20	0
AGGREGATE SUBGRADE IMPROVEMENT	0	0
FILL	8	0

ALL UNITS ARE SQUARE FEET	STAGE I	STAGE II
EARTH EXCAVATION	19	0
UNSUITABLE EXCAVATION	0	0
TOPSOIL EXCAVATION	0	0
AGGREGATE SUBGRADE IMPROVEMENT	0	0
FILL	11	0

ALL UNITS ARE SQUARE FEET	STAGE I	STAGE II
EARTH EXCAVATION	23	0
UNSUITABLE EXCAVATION	0	0
TOPSOIL EXCAVATION	18	0
AGGREGATE SUBGRADE IMPROVEMENT	0	0
FILL	11	0



FILE NAME = D162A00-shr-US6.dgn
 PLOT DATE = 1/19/2016
 PLOT SCALE = 20,0000 / 1"

CR
 CHRISTIAN-ROGE & ASSOCIATES, INC.
 ENGINEERS-PLANNERS-SURVEYORS
 221 NORTH LASALLE STREET, SUITE 300
 CHICAGO, ILLINOIS 60601
 PHONE: (312) 577-3300

DESIGNED - S.J.P.	REVISED -
DRAWN - B.K.	REVISED -
CHECKED - M.P.	REVISED -
DATE - JANUARY 18, 2016	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

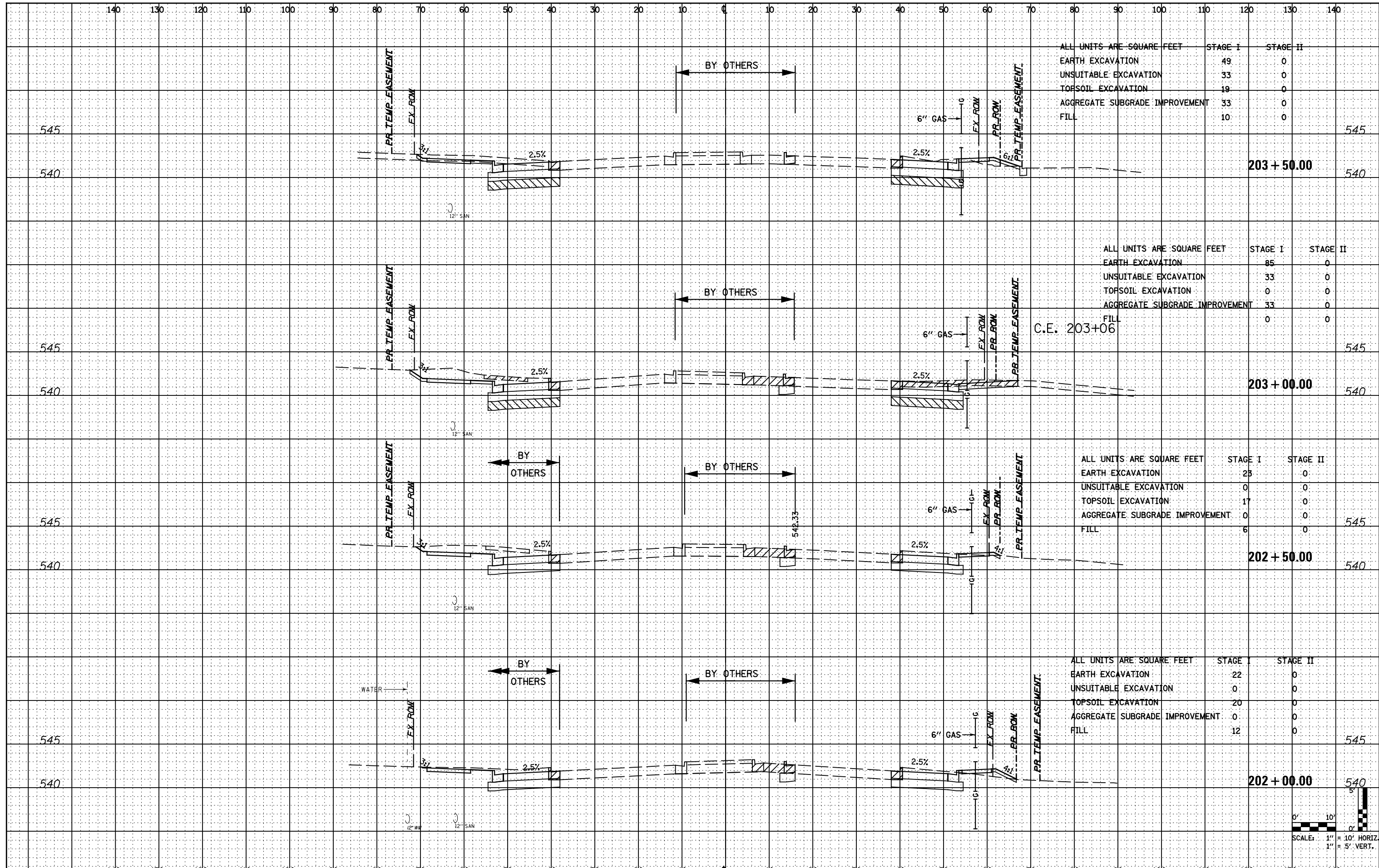
**CROSS SECTIONS
 U.S. 6**

SCALE: NONE SHEET NO. 3 OF 6 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	2014-065-R	WILL	184	174
CONTRACT NO. 62A00			FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT	

DATE	
BY	
FINAL SURVEY	
SURVEYED	
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TEMPLATE	
NOTE BOOK	
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AREAS CHECKED	

DATE	
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ORIGINAL SURVEY	
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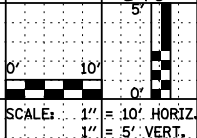


ALL UNITS ARE SQUARE FEET	STAGE I	STAGE II
EARTH EXCAVATION	49	0
UNSUITABLE EXCAVATION	33	0
TOPSOIL EXCAVATION	19	0
AGGREGATE SUBGRADE IMPROVEMENT	33	0
FILL	10	0

ALL UNITS ARE SQUARE FEET	STAGE I	STAGE II
EARTH EXCAVATION	85	0
UNSUITABLE EXCAVATION	33	0
TOPSOIL EXCAVATION	0	0
AGGREGATE SUBGRADE IMPROVEMENT	33	0
FILL	0	0

ALL UNITS ARE SQUARE FEET	STAGE I	STAGE II
EARTH EXCAVATION	28	0
UNSUITABLE EXCAVATION	0	0
TOPSOIL EXCAVATION	17	0
AGGREGATE SUBGRADE IMPROVEMENT	0	0
FILL	6	0

ALL UNITS ARE SQUARE FEET	STAGE I	STAGE II
EARTH EXCAVATION	22	0
UNSUITABLE EXCAVATION	0	0
TOPSOIL EXCAVATION	20	0
AGGREGATE SUBGRADE IMPROVEMENT	0	0
FILL	12	0



FILE NAME = D162A00-sht-US6.dgn
 PLOT DATE = 1/19/2016
 PLOT SCALE = 20.0000' / 1"

CR
 CHRISTIAN-ROGE & ASSOCIATES, INC.
 ENGINEERS-PLANNERS-SURVEYORS
 221 NORTH LASALLE STREET, SUITE 300
 CHICAGO, ILLINOIS 60601
 PHONE: (312) 577-3300

DESIGNED	- S.J.P.	REVISED	-
DRAWN	- B.K.	REVISED	-
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DATE	- JANUARY 18, 2016	REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

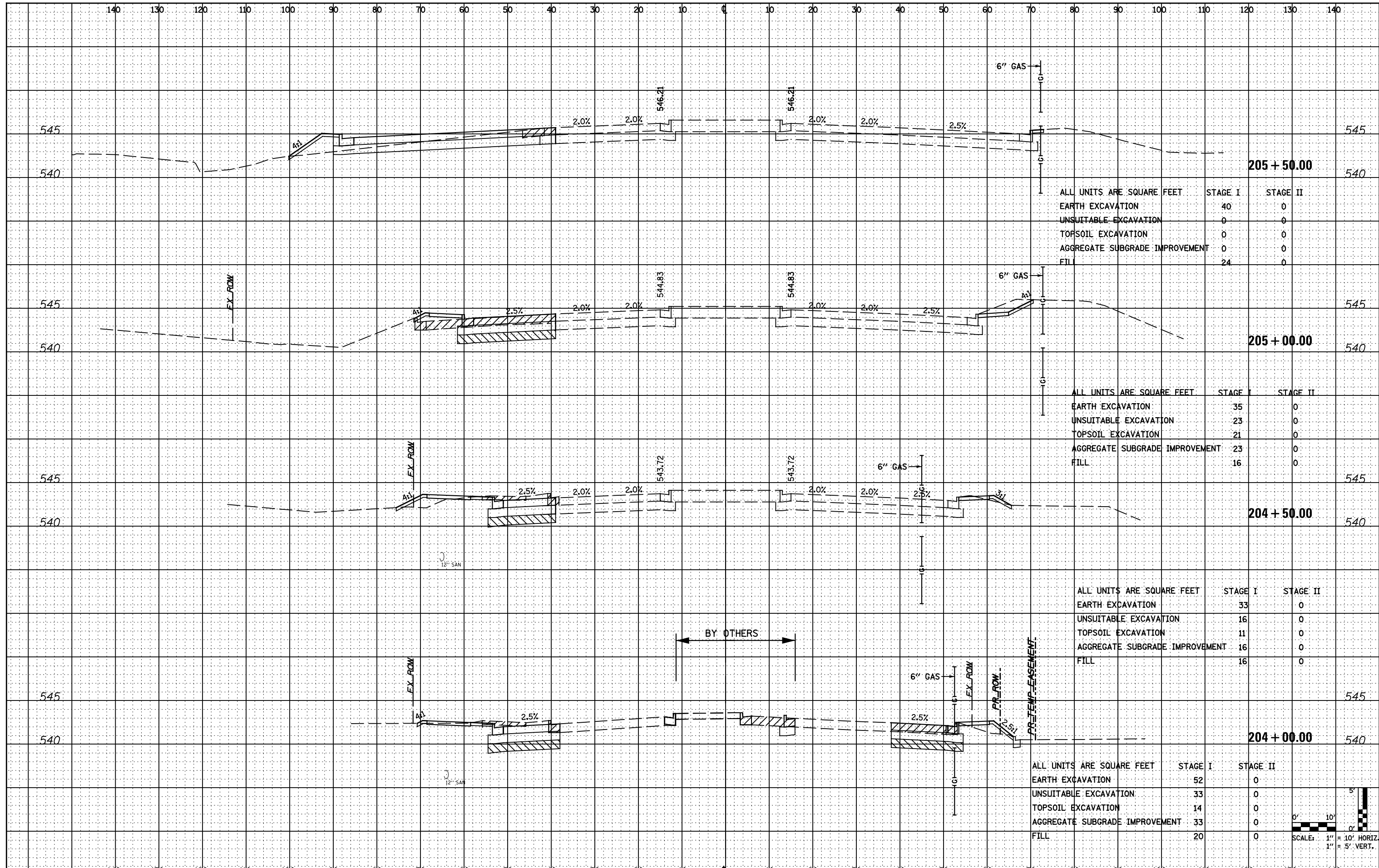
CROSS SECTIONS
U.S. 6
 SCALE: NONE SHEET NO. 4 OF 6 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	2014-065-R	WILL	184	175

CONTRACT NO. 62A00
 FED. ROAD DIST. NO. 1 (ILLINOIS) FED. AID PROJECT

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

DATE	
BY	
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ORIGINAL SURVEY	
SURVEYED	
PLOTTED	
TEMPLATE	
NOTE BOOK	
AREAS CHECKED	

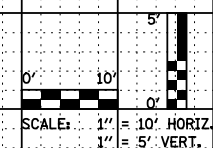


ALL UNITS ARE SQUARE FEET		STAGE I	STAGE II
EARTH EXCAVATION		40	0
UNSUITABLE EXCAVATION		0	0
TOPSOIL EXCAVATION		0	0
AGGREGATE SUBGRADE IMPROVEMENT		0	0
FILL		24	0

ALL UNITS ARE SQUARE FEET		STAGE I	STAGE II
EARTH EXCAVATION		35	0
UNSUITABLE EXCAVATION		23	0
TOPSOIL EXCAVATION		21	0
AGGREGATE SUBGRADE IMPROVEMENT		23	0
FILL		16	0

ALL UNITS ARE SQUARE FEET		STAGE I	STAGE II
EARTH EXCAVATION		33	0
UNSUITABLE EXCAVATION		16	0
TOPSOIL EXCAVATION		11	0
AGGREGATE SUBGRADE IMPROVEMENT		16	0
FILL		16	0

ALL UNITS ARE SQUARE FEET		STAGE I	STAGE II
EARTH EXCAVATION		52	0
UNSUITABLE EXCAVATION		33	0
TOPSOIL EXCAVATION		14	0
AGGREGATE SUBGRADE IMPROVEMENT		33	0
FILL		20	0



FILE NAME = D162A00-sht-US6.dgn
 PLOT DATE = 1/19/2016
 PLOT SCALE = 20.0000' / 1"

CR
 CHRISTIAN-ROGE & ASSOCIATES, INC.
 ENGINEERS-PLANNERS-SURVEYORS
 221 NORTH LASALLE STREET, SUITE 300
 CHICAGO, ILLINOIS 60601
 PHONE: (312) 577-3300

DESIGNED - S.J.P.	REVISED -
DRAWN - B.K.	REVISED -
CHECKED - M.P.	REVISED -
DATE - JANUARY 18, 2016	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS
 U.S. 6**

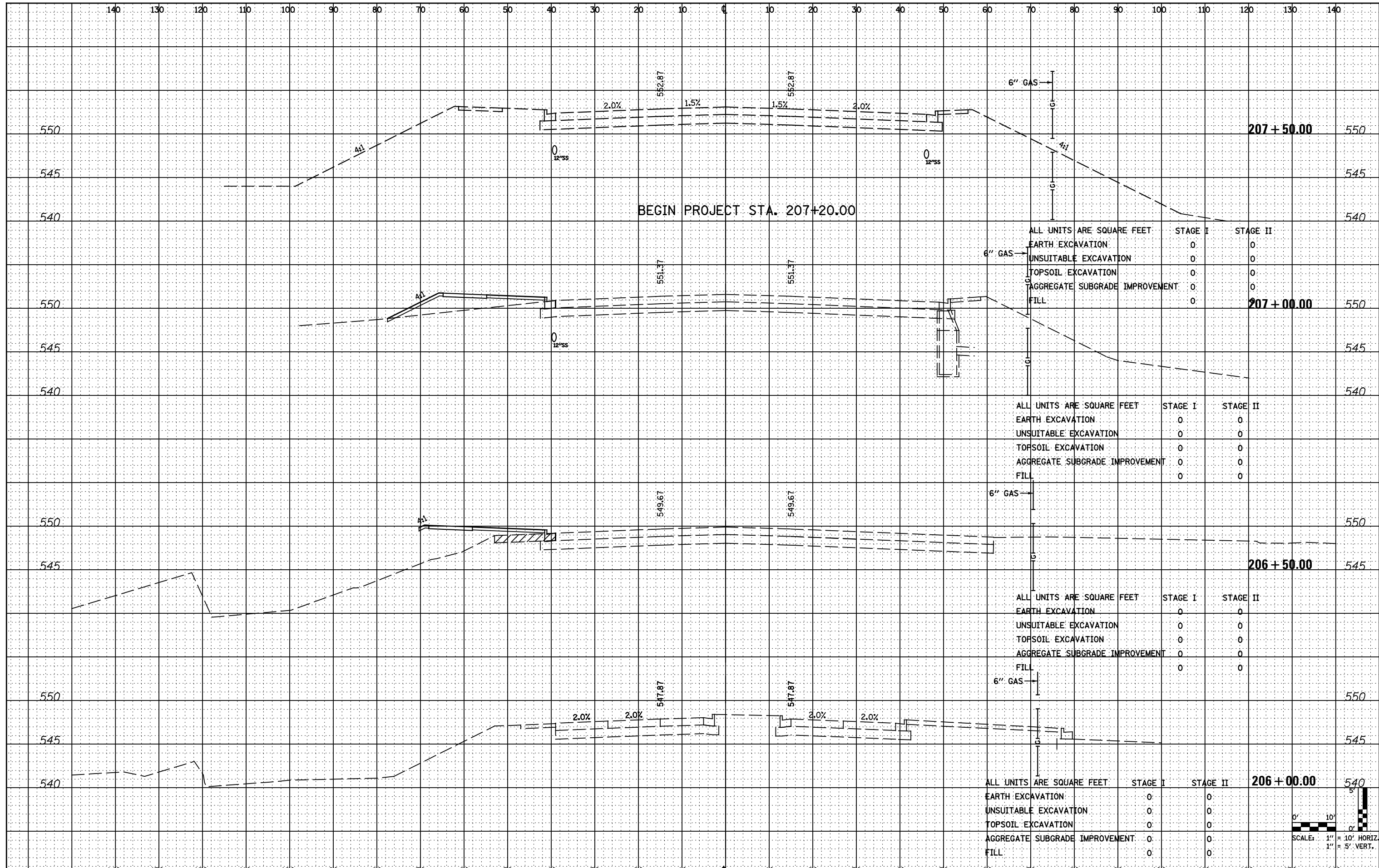
SCALE: NONE SHEET NO. 5 OF 6 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	2014-065-R	WILL	184	176

CONTRACT NO. 62A00
 FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT

DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
NOTE BOOK	
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AREAS CHECKED	

DATE	
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SURVEYED	
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NOTE BOOK	
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AREAS CHECKED	



FILE NAME = D162A00-sht-US6.dgn
 PLOT DATE = 1/19/2016
 PLOT SCALE = 20,0000 / 1"

CR
 CHRISTIAN-ROGE & ASSOCIATES, INC.
 ENGINEERS-PLANNERS-SURVEYORS
 221 NORTH LASALLE STREET, SUITE 300
 CHICAGO, ILLINOIS 60601
 PHONE: (312) 577-3300

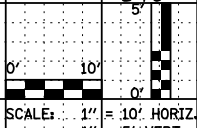
DESIGNED	- S.J.P.	REVISED	-
DRAWN	- B.K.	REVISED	-
CHECKED	- M.P.	REVISED	-
DATE	- JANUARY 18, 2016	REVISED	-

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS
 U.S. 6**

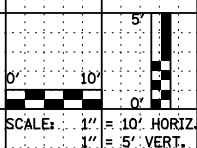
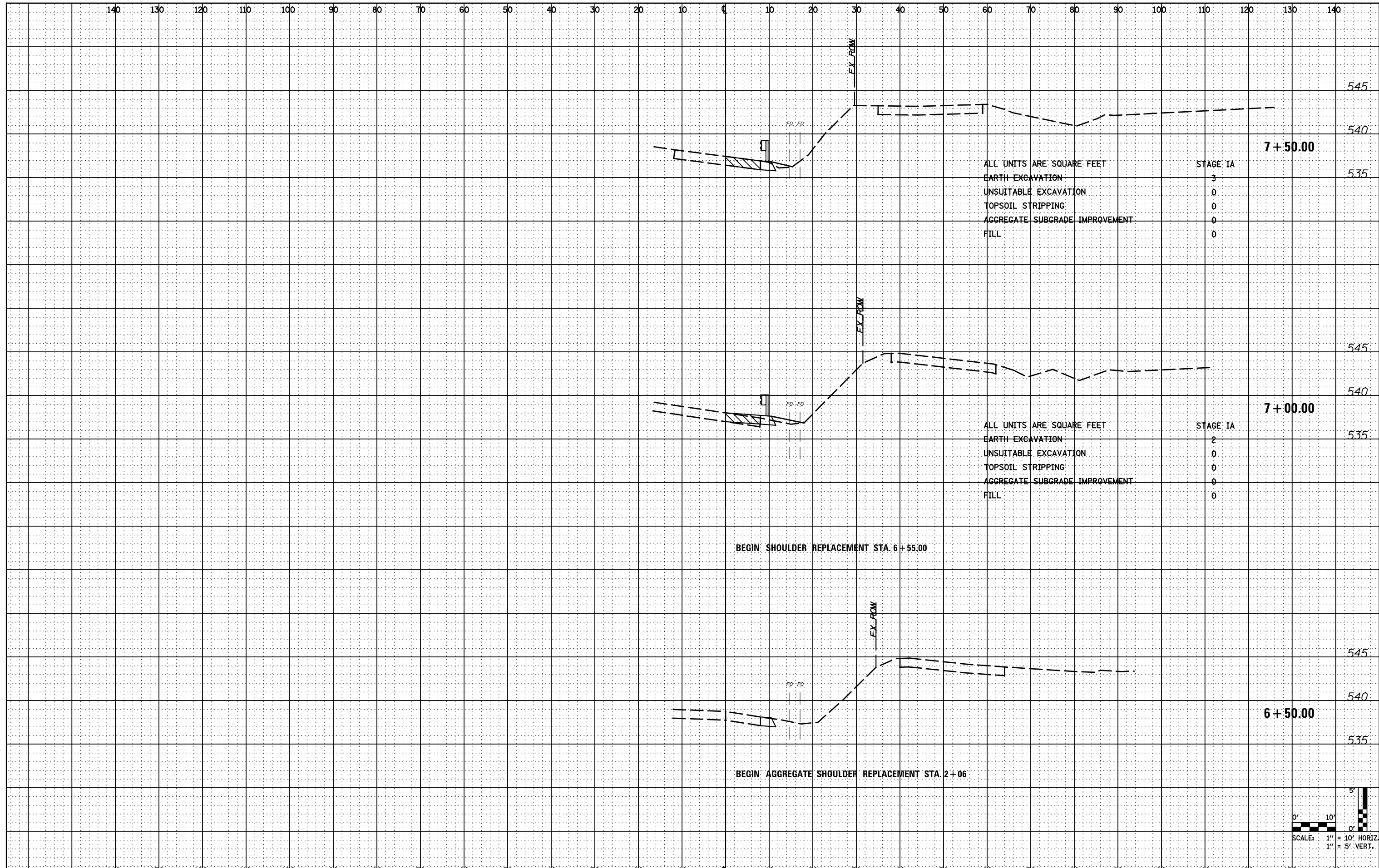
SCALE: NONE SHEET NO. 6 OF 6 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	2014-065-R	WILL	184	177
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT			CONTRACT NO. 62A00	



DATE	
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NO. BOOK	
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FILE NAME = D162A00-shr-RampC.dgn
 PLOT DATE = 1/19/2016
 PLOT SCALE = 20.0000' / 1"

CR
 CHRISTIAN-ROGE & ASSOCIATES, INC.
 ENGINEERS-PLANNERS-SURVEYORS
 221 NORTH LASALLE STREET, SUITE 300
 CHICAGO, ILLINOIS 60601
 PHONE: (312) 577-3300

DESIGNED	- S.J.P.	REVISED	-
DRAWN	- B.K.	REVISED	-
CHECKED	- M.P.	REVISED	-
DATE	- JANUARY 18, 2016	REVISED	-

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

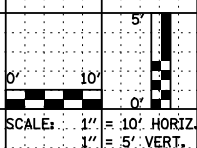
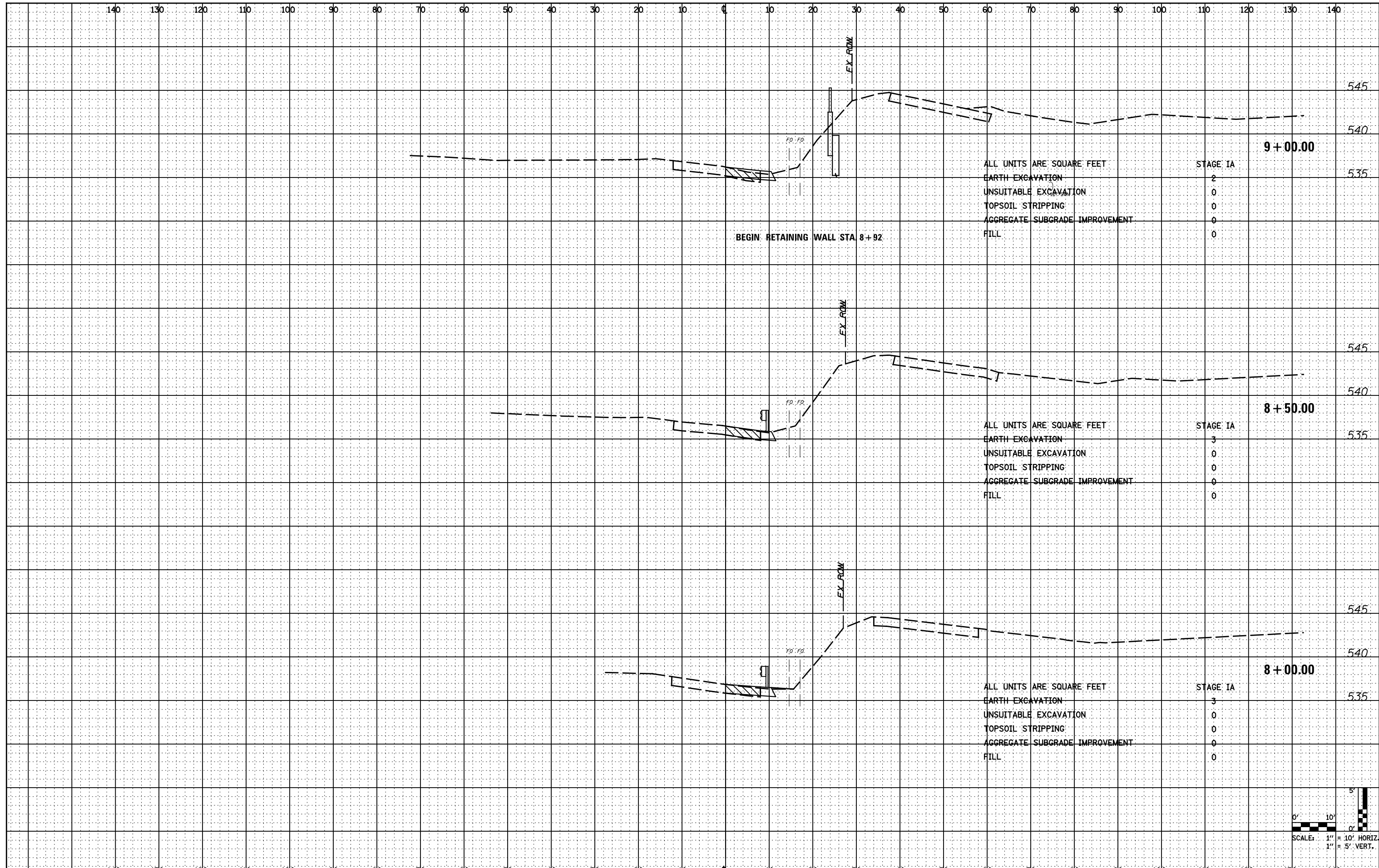
**CROSS SECTIONS
 RAMP C**

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	2014-065-R	WILL	184	178
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT			CONTRACT NO. 62A00	

DATE	
BY	
ORIGINAL SURVEY	
SURVEYED	
PLOTTED	
TEMPLATE	
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AREAS CHECKED	

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ORIGINAL SURVEY	
SURVEYED	
PLOTTED	
TEMPLATE	
NO. _____	
AREAS CHECKED	



FILE NAME = D162A00-shr-RampC.dgn
 PLOT DATE = 1/19/2016
 PLOT SCALE = 20,0000 / 1"

CR
 CHRISTIAN-ROGE & ASSOCIATES, INC.
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 221 NORTH LASALLE STREET, SUITE 300
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CHECKED - M.P.	REVISED -
DATE - JANUARY 18, 2016	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

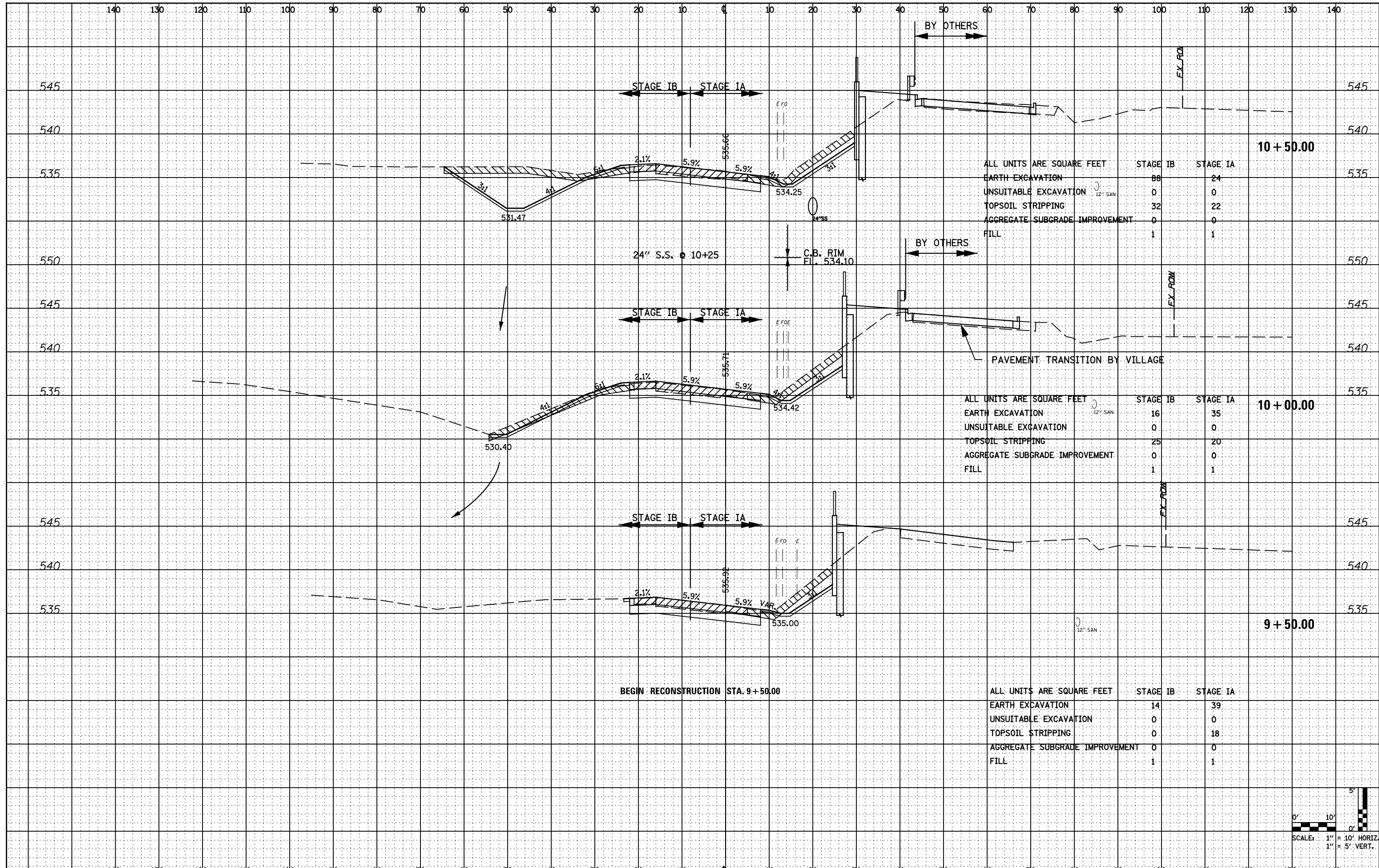
**CROSS SECTIONS
 RAMP C**

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	2014-065-R	WILL	184	179
CONTRACT NO. 62A00				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

DATE	
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SURVEYED	
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TEMPLATE	
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DATE	
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SURVEYED	
PLOTTED	
TEMPLATE	
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10 + 50.00

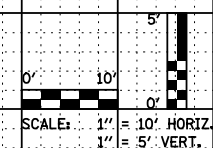
ALL UNITS ARE SQUARE FEET		STAGE IB	STAGE IA
EARTH EXCAVATION		88	24
UNSUITABLE EXCAVATION		0	0
TOPSOIL STRIPPING		32	22
AGGREGATE SUBGRADE IMPROVEMENT		0	0
FILL		1	1

10 + 00.00

ALL UNITS ARE SQUARE FEET		STAGE IB	STAGE IA
EARTH EXCAVATION		16	35
UNSUITABLE EXCAVATION		0	0
TOPSOIL STRIPPING		25	20
AGGREGATE SUBGRADE IMPROVEMENT		0	0
FILL		1	1

9 + 50.00

ALL UNITS ARE SQUARE FEET		STAGE IB	STAGE IA
EARTH EXCAVATION		14	39
UNSUITABLE EXCAVATION		0	0
TOPSOIL STRIPPING		0	18
AGGREGATE SUBGRADE IMPROVEMENT		0	0
FILL		1	1



FILE NAME = D162A00-sht-RampC.dgn
 PLOT DATE = 1/19/2016
 PLOT SCALE = 20.0000' / 1"

CR
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DESIGNED	- S.J.P.	REVISED	-
DRAWN	- B.K.	REVISED	-
CHECKED	- M.P.	REVISED	-
DATE	- JANUARY 18, 2016	REVISED	-

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

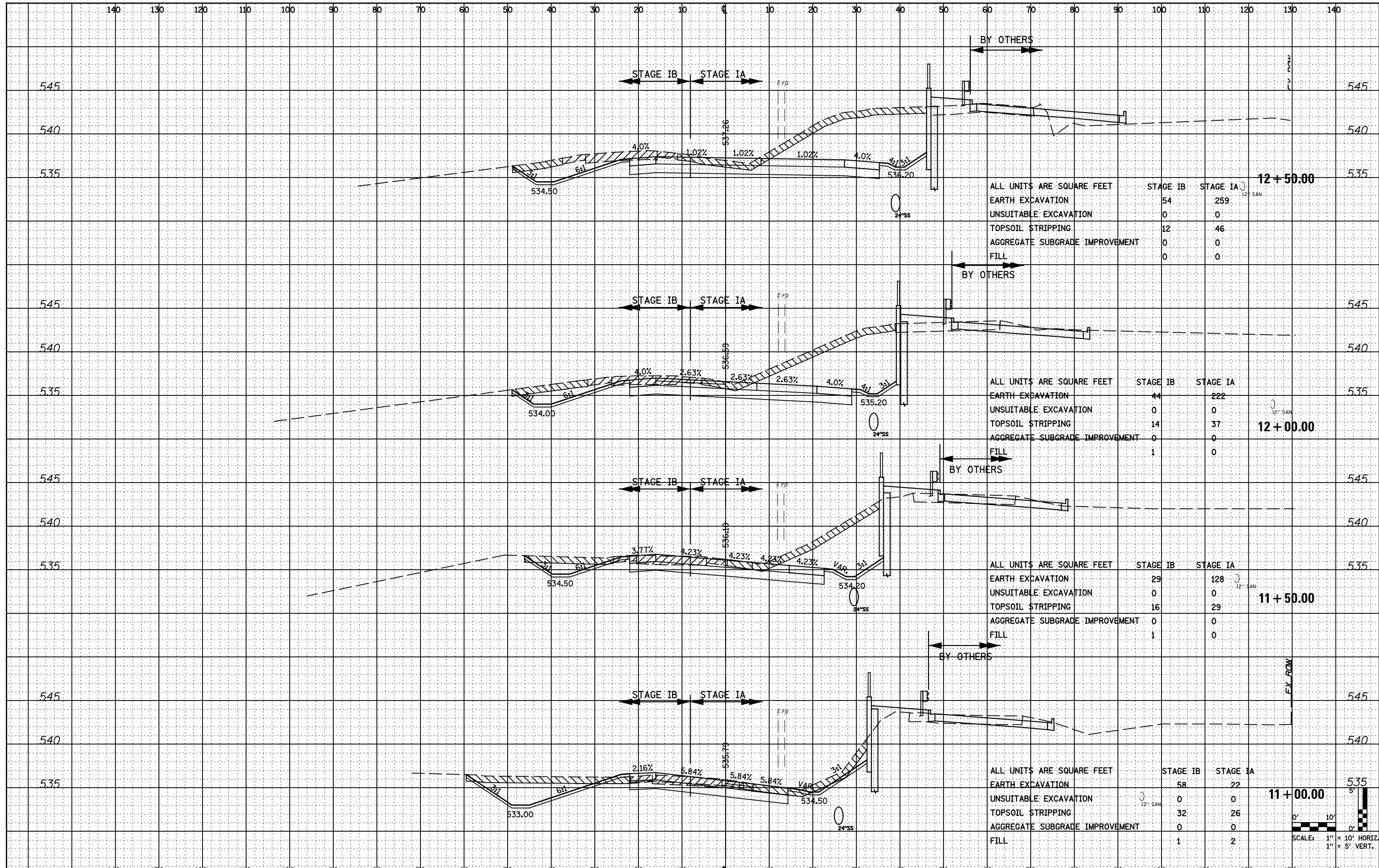
**CROSS SECTIONS
 RAMP C**

SCALE: NONE SHEET NO. 3 OF 7 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	2014-065-R	WILL	184	180
CONTRACT NO. 62A00				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

DATE	
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FINAL SURVEY	
NOTE BOOK	
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DATE	
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AREAS CHECKED	
ORIGINAL SURVEY	
NOTE BOOK	
NO.	



FILE NAME = D162A00-sht-RampC.dgn
 PLOT DATE = 1/19/2016
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 CHRISTIAN-ROGE & ASSOCIATES, INC.
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DATE - JANUARY 18, 2016	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

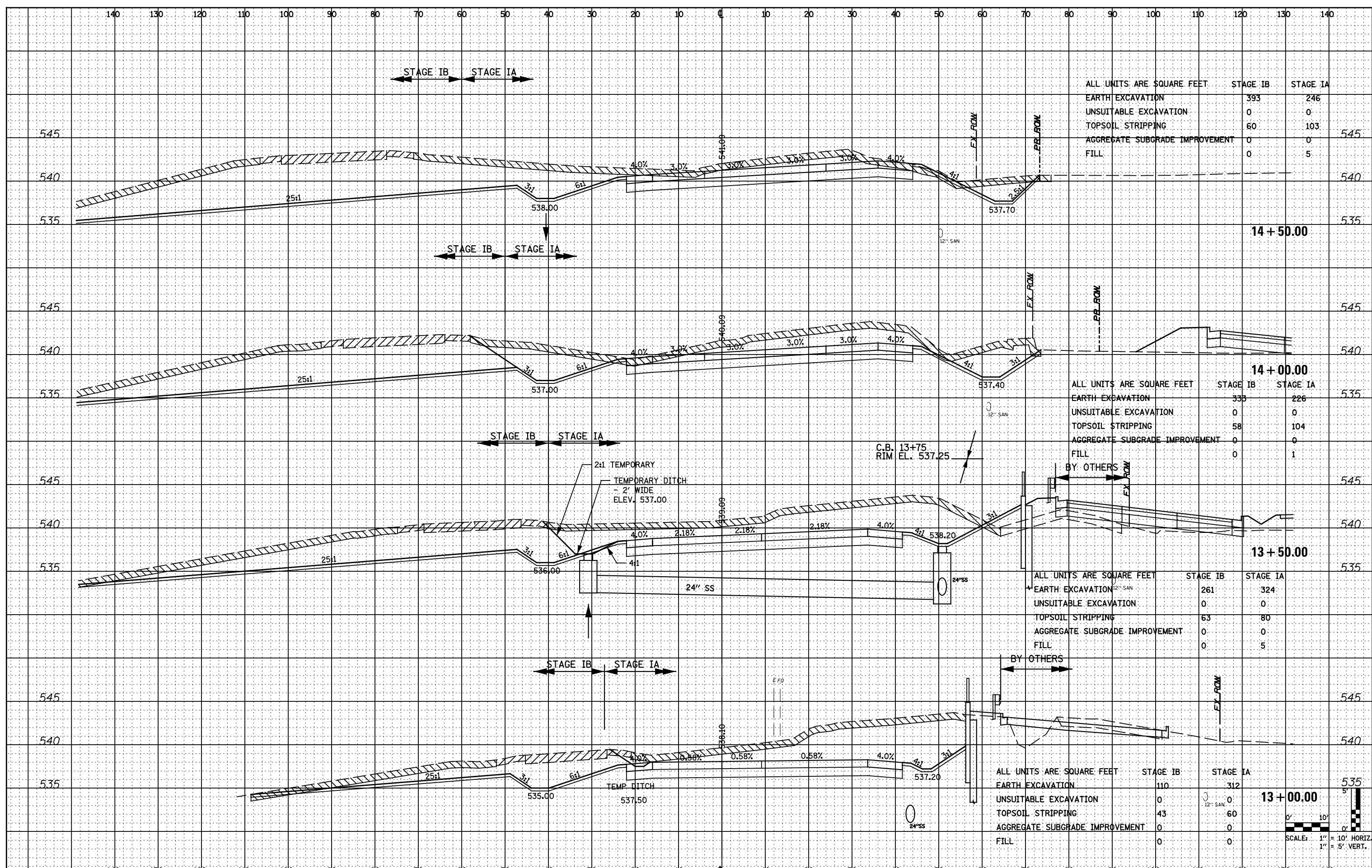
**CROSS SECTIONS
 RAMP C**

SCALE: NONE SHEET NO. 4 OF 7 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	2014-065-R	WILL	184	181
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT			CONTRACT NO. 62A00	

DATE	
BY	
NO.	
ORIGINAL SURVEY	
NOTE BOOK	
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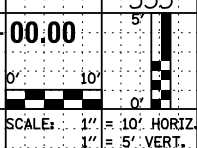


ALL UNITS ARE SQUARE FEET	STAGE IB	STAGE IA
EARTH EXCAVATION	393	246
UNSUITABLE EXCAVATION	0	0
TOPSOIL STRIPPING	60	103
AGGREGATE SUBGRADE IMPROVEMENT	0	0
FILL	0	5

ALL UNITS ARE SQUARE FEET	STAGE IB	STAGE IA
EARTH EXCAVATION	333	226
UNSUITABLE EXCAVATION	0	0
TOPSOIL STRIPPING	58	104
AGGREGATE SUBGRADE IMPROVEMENT	0	0
FILL	0	1

ALL UNITS ARE SQUARE FEET	STAGE IB	STAGE IA
EARTH EXCAVATION	261	324
UNSUITABLE EXCAVATION	0	0
TOPSOIL STRIPPING	63	80
AGGREGATE SUBGRADE IMPROVEMENT	0	0
FILL	0	5

ALL UNITS ARE SQUARE FEET	STAGE IB	STAGE IA
EARTH EXCAVATION	110	312
UNSUITABLE EXCAVATION	0	0
TOPSOIL STRIPPING	43	60
AGGREGATE SUBGRADE IMPROVEMENT	0	0
FILL	0	0



FILE NAME = D162A00-shr-RampC.dgn
 PLOT DATE = 1/22/2016
 PLOT SCALE = 20.0000' / 1\"/>

CR
 CHRISTIAN-ROGE & ASSOCIATES, INC.
 ENGINEERS-PLANNERS-SURVEYORS
 221 NORTH LASALLE STREET, SUITE 300
 CHICAGO, ILLINOIS 60601
 PHONE: (312) 577-3300

DESIGNED - S.J.P.
 DRAWN - B.K.
 CHECKED - M.P.
 DATE - JANUARY 18, 2016

REVISED -
 REVISED -
 REVISED -
 REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
 RAMP C

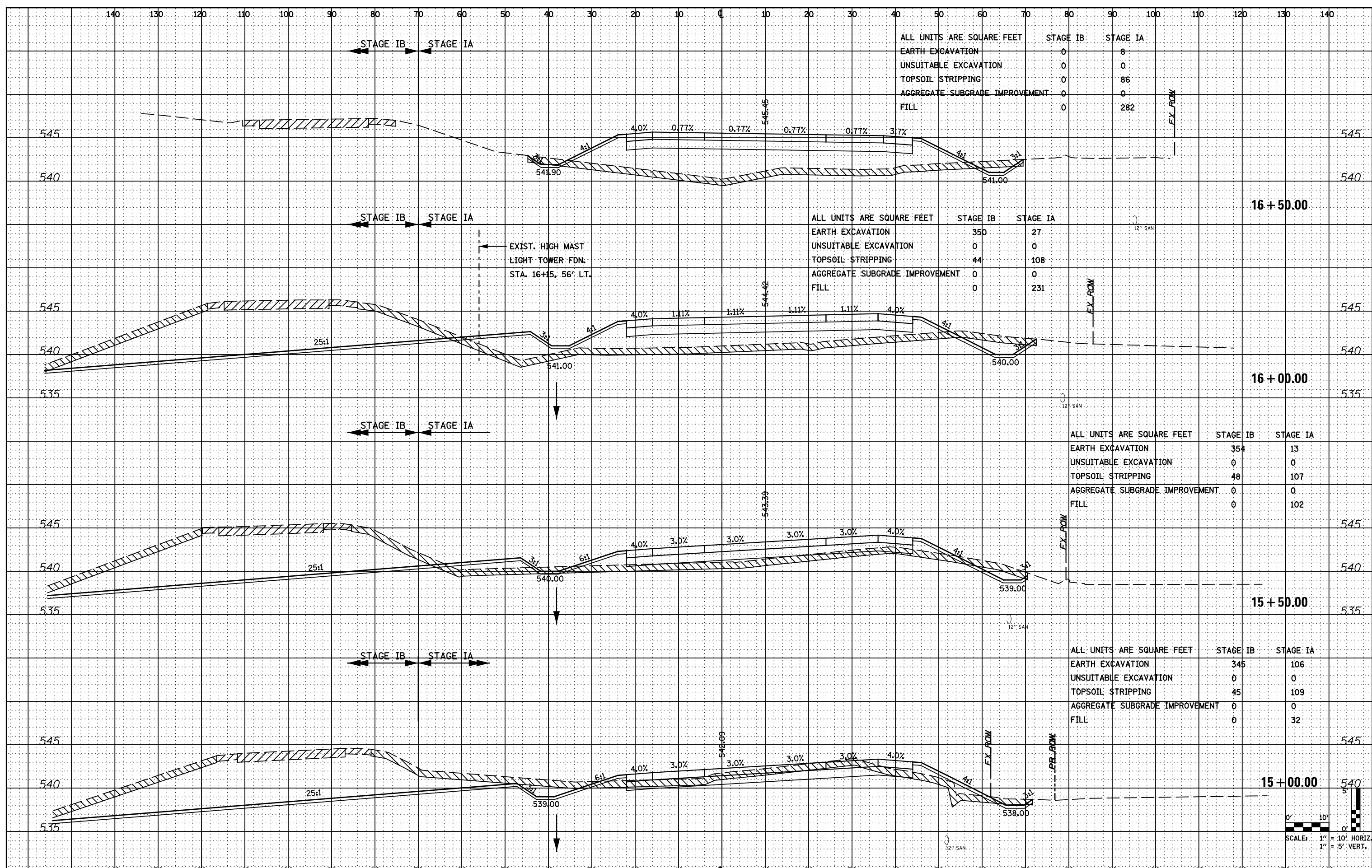
SCALE: NONE SHEET NO. 5 OF 7 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	2014-065-R	WILL	184	182

CONTRACT NO. 62A00
 FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT

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

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



FILE NAME = D162A00-sht-RampC.dgn
 PLOT DATE = 1/22/2016
 PLOT SCALE = 20.0000' / 1"

CHRISTIAN-ROGE & ASSOCIATES, INC.
 ENGINEERS-PLANNERS-SURVEYORS
 221 NORTH LASALLE STREET, SUITE 300
 CHICAGO, ILLINOIS 60601
 PHONE: (312) 577-3300

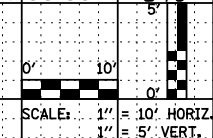
DESIGNED - S.J.P.	REVISED -
DRAWN - B.K.	REVISED -
CHECKED - M.P.	REVISED -
DATE - JANUARY 18, 2016	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS
 RAMP C**

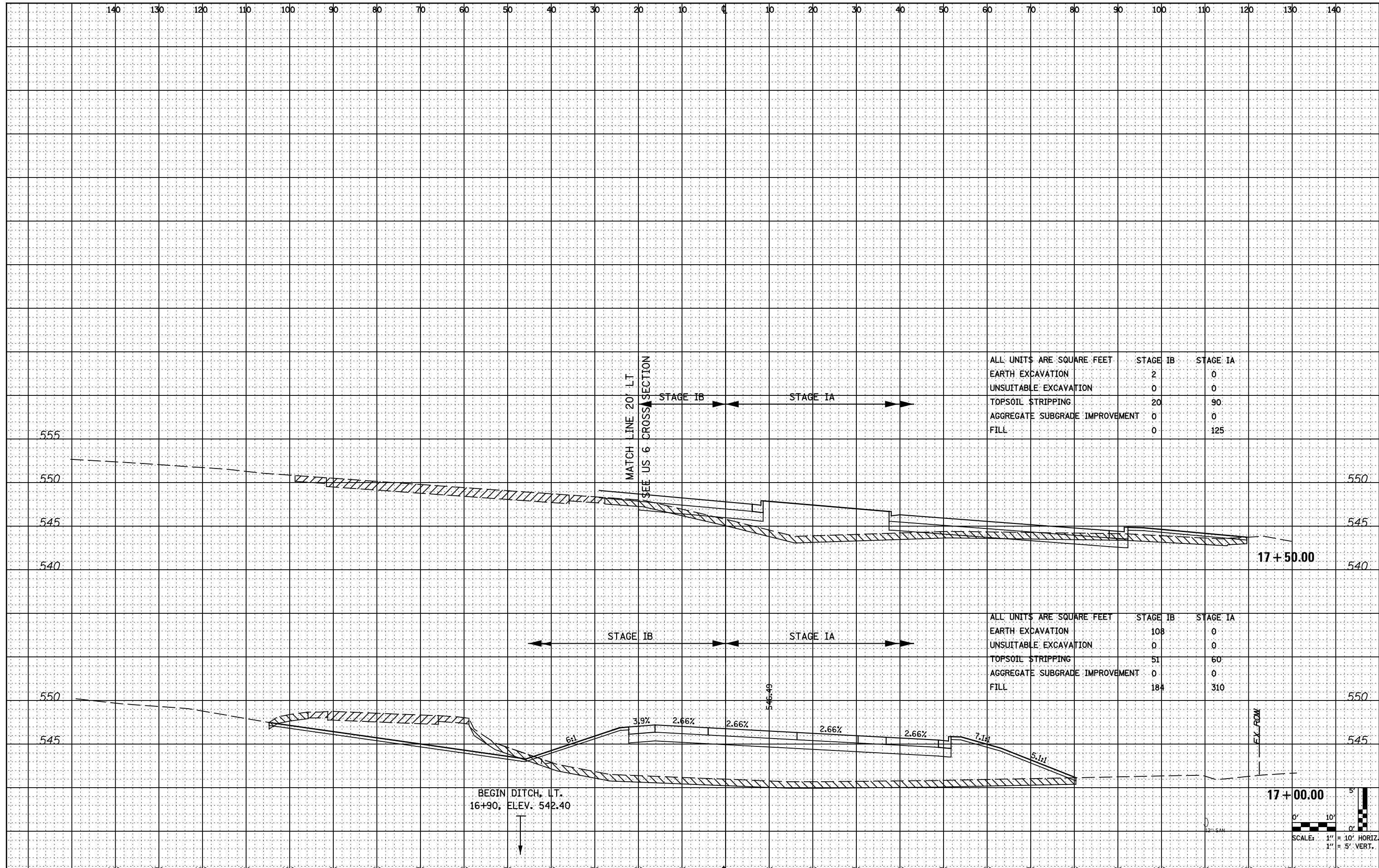
SCALE: NONE SHEET NO. 6 OF 7 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	2014-065-R	WILL	184	183
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				CONTRACT NO. 62A00



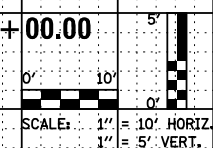
DATE	
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NO.	
ORIGINAL SURVEY	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS CHECKED	

DATE	
BY	
NO.	
ORIGINAL SURVEY	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS CHECKED	



ALL UNITS ARE SQUARE FEET	STAGE IB	STAGE IA
EARTH EXCAVATION	2	0
UNSUITABLE EXCAVATION	0	0
TOPSOIL STRIPPING	20	90
AGGREGATE SUBGRADE IMPROVEMENT	0	0
FILL	0	125

ALL UNITS ARE SQUARE FEET	STAGE IB	STAGE IA
EARTH EXCAVATION	108	0
UNSUITABLE EXCAVATION	0	0
TOPSOIL STRIPPING	51	60
AGGREGATE SUBGRADE IMPROVEMENT	0	0
FILL	184	310



FILE NAME = D162A00-sht-RampC.dgn
 PLOT DATE = 1/19/2016
 PLOT SCALE = 20.0000' / 1" =

CR
 CHRISTIAN-ROGE & ASSOCIATES, INC.
 ENGINEERS-PLANNERS-SURVEYORS
 221 NORTH LASALLE STREET, SUITE 300
 CHICAGO, ILLINOIS 60601
 PHONE: (312) 577-3300

DESIGNED - S.J.P.
 DRAWN - B.K.
 CHECKED - M.P.
 DATE - JANUARY 18, 2016

REVISED -
 REVISED -
 REVISED -
 REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS
 RAMP C**

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	2014-065-R	WILL	184	184

CONTRACT NO. 62A00
 FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT