

LANDSCAPING LEGEND

- SEEDING, CLASS 2
- SEEDING, CLASS 2A
- EROSION CONTROL BLANKET
- SODDING, SALT TOLERANT
- HEAVY DUTY EROSION CONTROL BLANKET
- TURF REINFORCEMENT MAT
- ARTICULATED BLOCK REVETMENT MAT
- RIPRAP



LIN ENGINEERING, LTD.
 Consulting Engineers
 Springfield, Illinois

USER NAME = Plotted by LinZi	DESIGNED - JAH	REVISED -
	DRAWN - JAH	REVISED -
PLOT SCALE = 40.0000' / in.	CHECKED - AG	REVISED -
PLOT DATE = 12/18/2014	DATE - 06/20/2014	REVISED -

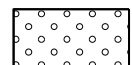

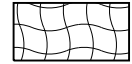

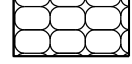



**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

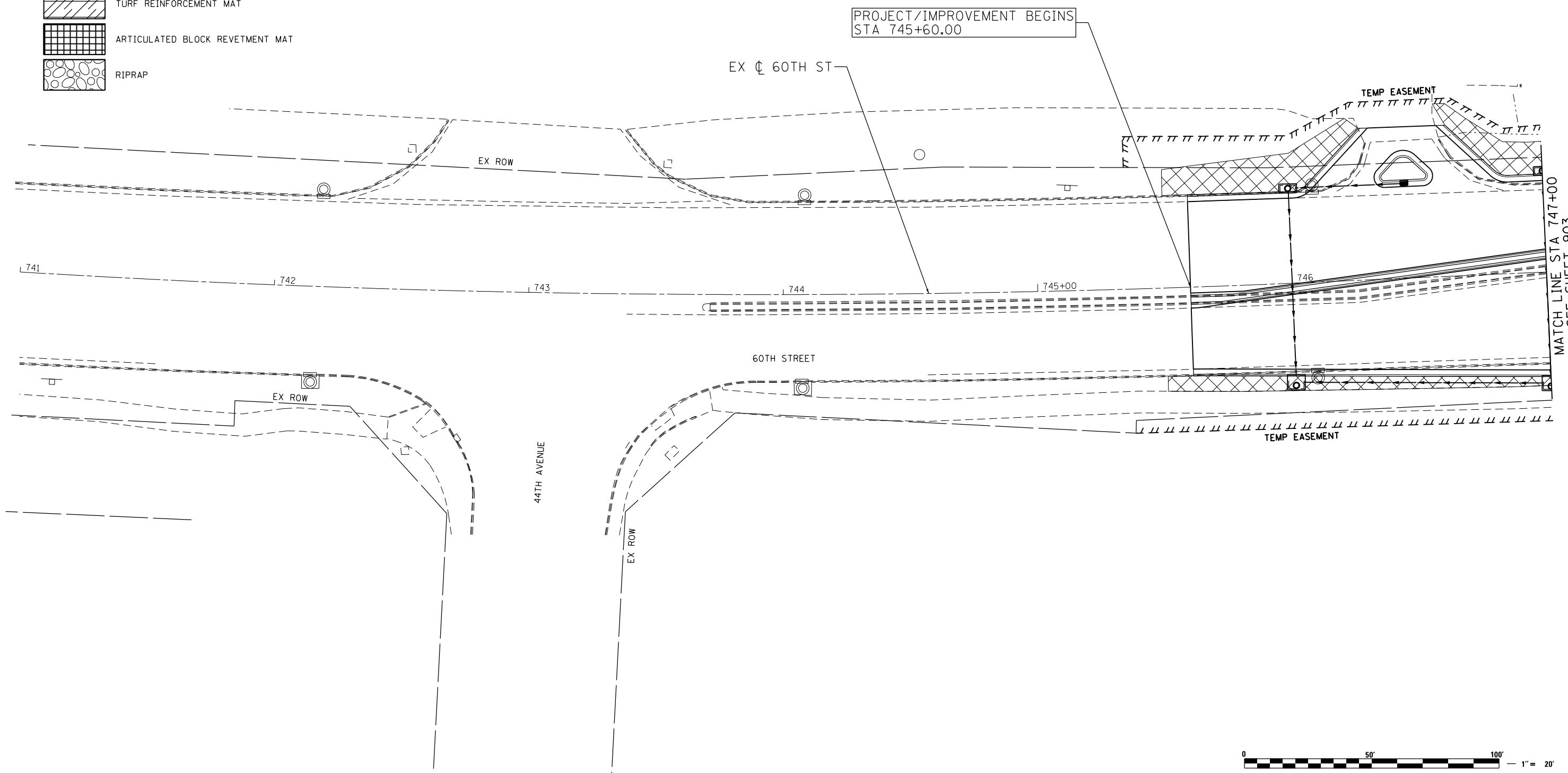
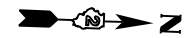
**53RD STREET
 PERMANENT EROSION CONTROL AND LANDSCAPING PLANS**

SCALE: 1"=20' SHEET NO. 38 OF 56 SHEETS STA. 704+00.00 TO STA. 707+27.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
595	(142-1, 142)R	ROCK ISLAND	1353	901
FED. ROAD DIST. NO. 2 ILLINOIS FED. AID PROJECT			CONTRACT NO. 64B83	

LANDSCAPING LEGEND

-  SEEDING, CLASS 2
-  SEEDING, CLASS 2A
-  EROSION CONTROL BLANKET
-  SODDING, SALT TOLERANT
-  HEAVY DUTY EROSION CONTROL BLANKET
-  TURF REINFORCEMENT MAT
-  ARTICULATED BLOCK REVETMENT MAT
-  RIPRAP



MATCH LINE STA 747+00
SEE SHEET 903



USER NAME = Plotted by LinZi	DESIGNED - JAH	REVISED -
DRAWN - JAH	REVISIONS -	
PLOT SCALE = 40.0000' / in.	CHECKED - AG	REVISED -
PLOT DATE = 12/18/2014	DATE - 06/20/2014	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

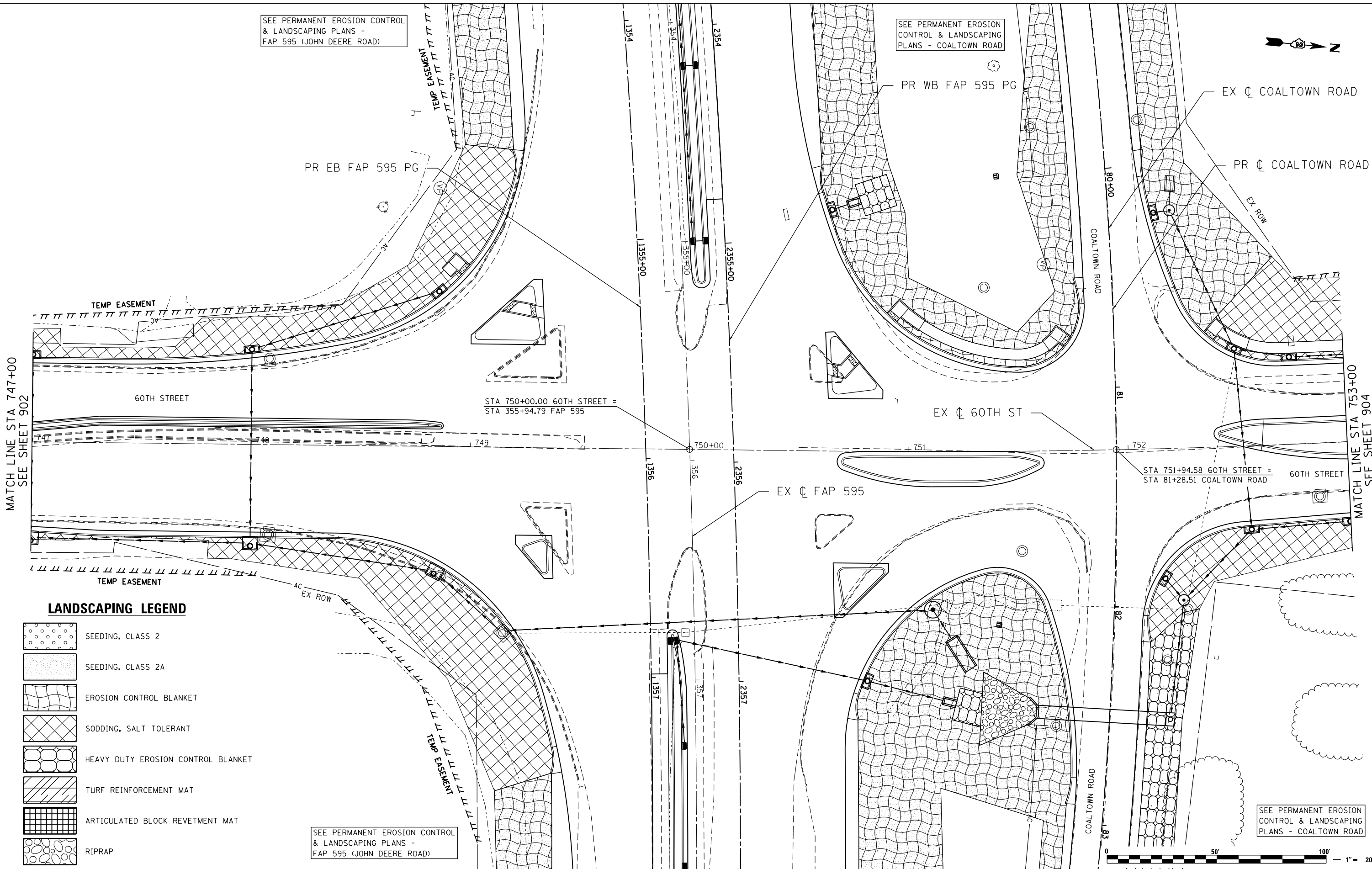
**60TH STREET
PERMANENT EROSION CONTROL AND LANDSCAPING PLANS**

SCALE: 1"=20' SHEET NO. 39 OF 56 SHEETS STA. 745+60.00 TO STA. 747+00.00

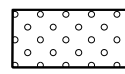






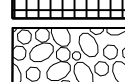
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
595	(142-1, 142)R	ROCK ISLAND	1353	902
FED. ROAD DIST. NO. 2 ILLINOIS FED. AID PROJECT			CONTRACT NO. 64B83	

SEE PERMANENT EROSION CONTROL & LANDSCAPING PLANS - FAP 595 (JOHN DEERE ROAD)

SEE PERMANENT EROSION CONTROL & LANDSCAPING PLANS - COALTOWN ROAD



LANDSCAPING LEGEND

-  SEEDING, CLASS 2
-  SEEDING, CLASS 2A
-  EROSION CONTROL BLANKET
-  SODDING, SALT TOLERANT
-  HEAVY DUTY EROSION CONTROL BLANKET
-  TURF REINFORCEMENT MAT
-  ARTICULATED BLOCK REVETMENT MAT
-  RIPRAP

SEE PERMANENT EROSION CONTROL & LANDSCAPING PLANS - FAP 595 (JOHN DEERE ROAD)



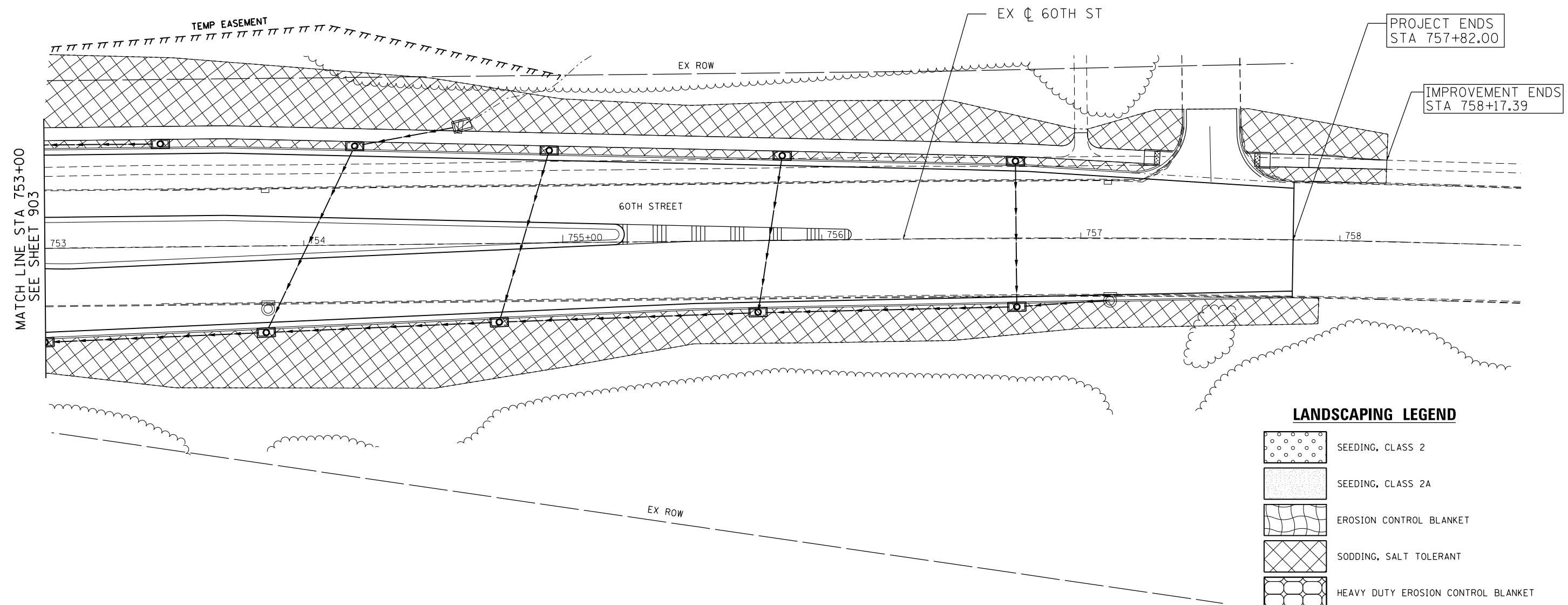
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PLOT SCALE = 48.0000' / in.	DRAWN - JAH	REVISED -
PLOT DATE = 12/18/2014	CHECKED - AG	REVISED -
	DATE - 06/20/2014	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**60TH STREET
PERMANENT EROSION CONTROL AND LANDSCAPING PLANS**








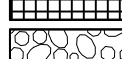
SCALE: 1"=20' SHEET NO. 40 OF 56 SHEETS STA. 747+00.00 TO STA. 753+00.00

F.A.P. RTE. 595	SECTION (142-1, 142)R	COUNTY ROCK ISLAND	TOTAL SHEETS 1353	SHEET NO. 903
CONTRACT NO. 64B83			ILLINOIS FED. AID PROJECT	



MATCH LINE STA 753+00
SEE SHEET 903

LANDSCAPING LEGEND

-  SEEDING, CLASS 2
-  SEEDING, CLASS 2A
-  EROSION CONTROL BLANKET
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-  ARTICULATED BLOCK REVETMENT MAT
-  RIPRAP



LE LIN ENGINEERING, LTD.
Consulting Engineers
Springfield, Illinois

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PLOT DATE = 12/18/2014	DATE - 06/20/2014	REVISED -

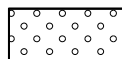
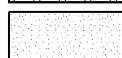
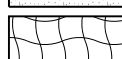





**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**60TH STREET
PERMANENT EROSION CONTROL AND LANDSCAPING PLANS**

SCALE: 1"=20' SHEET NO. 41 OF 56 SHEETS STA. 753+00.00 TO STA. 758+07.44

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
595	(142-1, 142)R	ROCK ISLAND	1353	904
FED. ROAD DIST. NO. 2 ILLINOIS FED. AID PROJECT			CONTRACT NO. 64B83	

LANDSCAPING LEGEND

-  SEEDING, CLASS 2
-  SEEDING, CLASS 2A
-  EROSION CONTROL BLANKET
-  SODDING, SALT TOLERANT
-  HEAVY DUTY EROSION CONTROL BLANKET
-  TURF REINFORCEMENT MAT
-  ARTICULATED BLOCK REVETMENT MAT
-  RIPRAP

SEE PERMANENT EROSION CONTROL & LANDSCAPING PLANS - FAP 595 (JOHN DEERE ROAD)

PROJECT ENDS STA 800+65.70

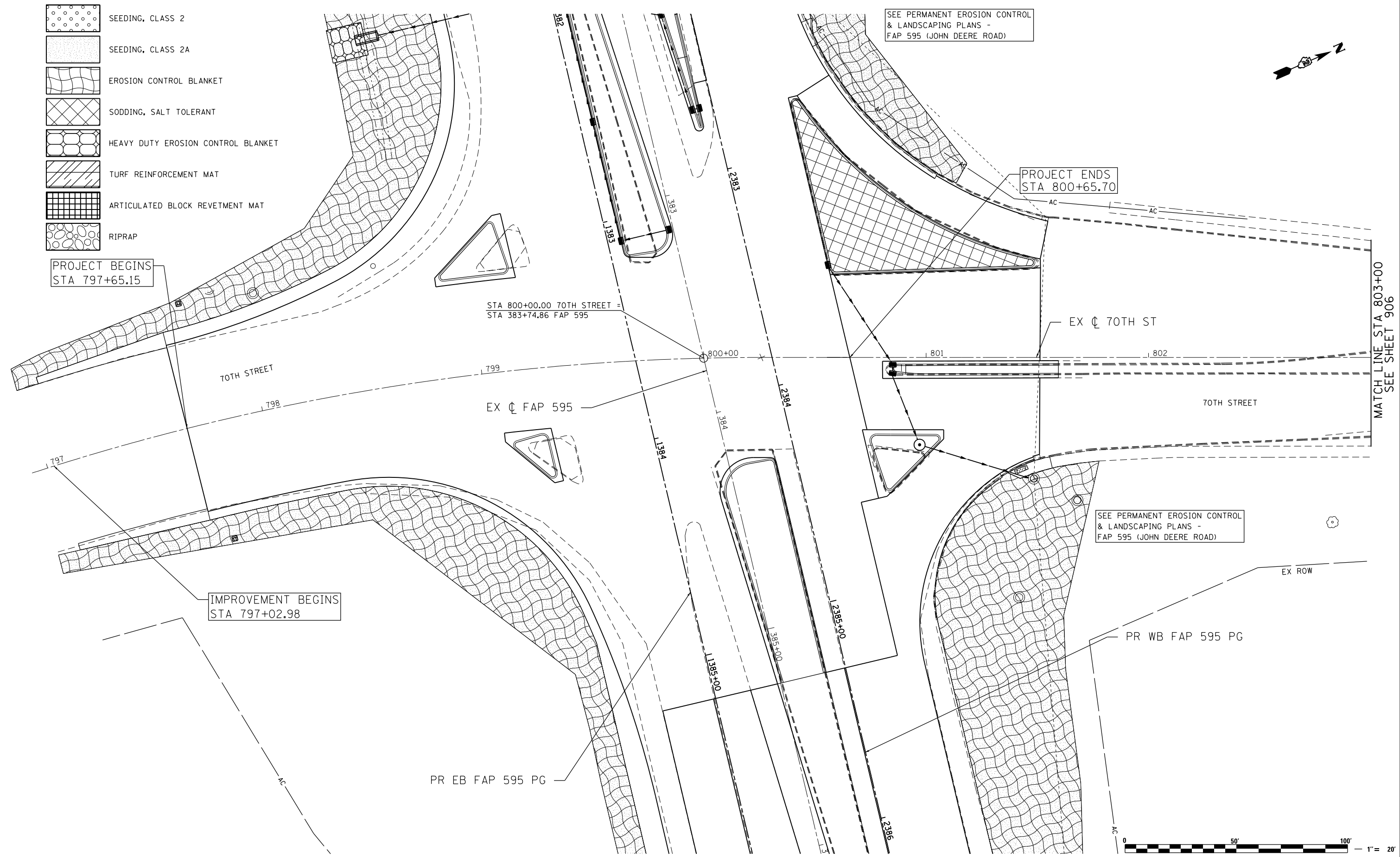
PROJECT BEGINS STA 797+65.15

STA 800+00.00 70TH STREET = STA 383+74.86 FAP 595

IMPROVEMENT BEGINS STA 797+02.98

SEE PERMANENT EROSION CONTROL & LANDSCAPING PLANS - FAP 595 (JOHN DEERE ROAD)

MATCH LINE STA 803+00 SEE SHEET 906

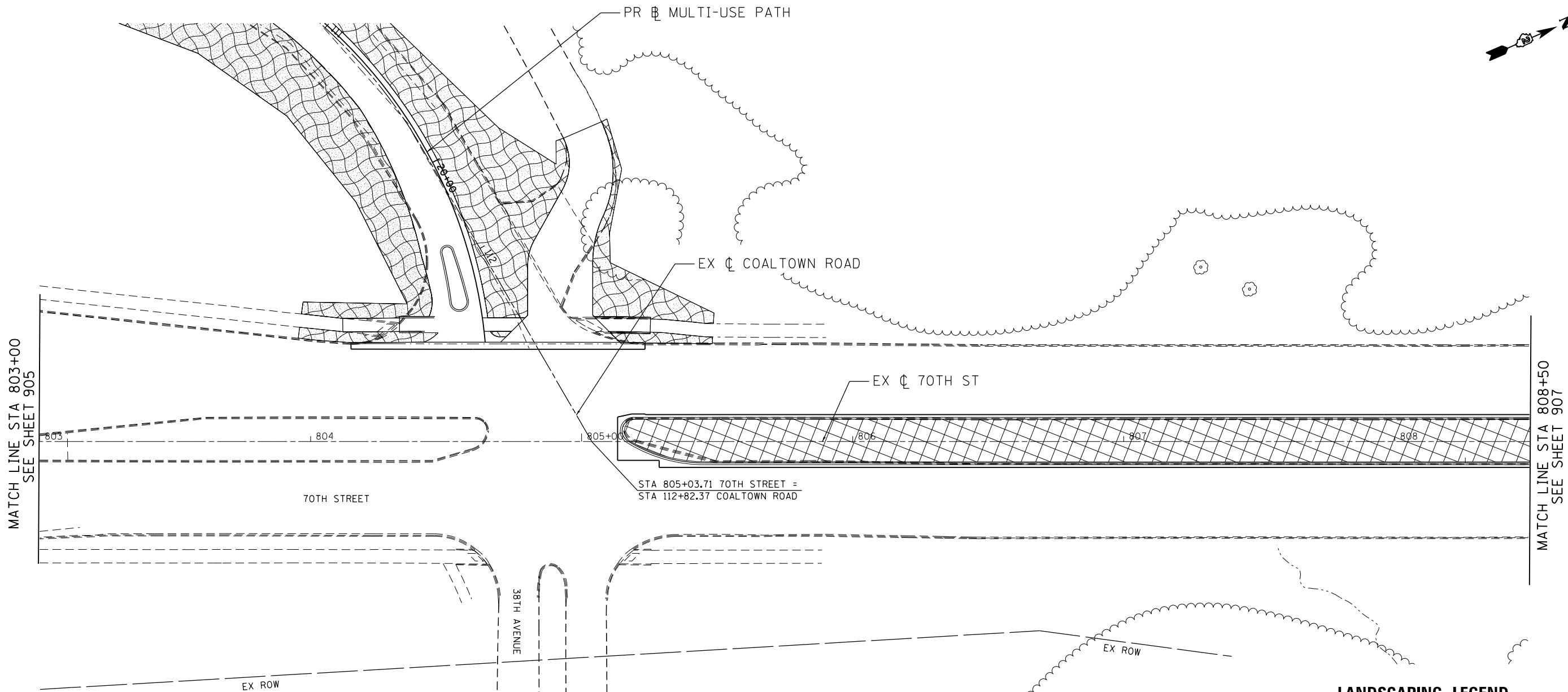
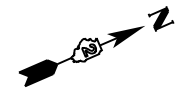


USER NAME = Plotted by Linzi	DESIGNED - JAH	REVISED -
PLOT SCALE = 40.0000' / in.	DRAWN - JAH	REVISED -
PLOT DATE = 12/18/2014	CHECKED - AG	REVISED -
	DATE - 06/20/2014	REVISED -

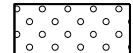







**STATE OF ILLINOIS
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**70TH STREET
PERMANENT EROSION CONTROL AND LANDSCAPING PLANS**
SCALE: 1"=20' SHEET NO. 42 OF 56 SHEETS STA. 797+02.98 TO STA. 803+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
595	(142-1, 142)R	ROCK ISLAND	1353	905
FED. ROAD DIST. NO. 2 ILLINOIS FED. AID PROJECT			CONTRACT NO. 64B83	



LANDSCAPING LEGEND

-  SEEDING, CLASS 2
-  SEEDING, CLASS 2A
-  EROSION CONTROL BLANKET
-  SODDING, SALT TOLERANT
-  HEAVY DUTY EROSION CONTROL BLANKET
-  TURF REINFORCEMENT MAT
-  ARTICULATED BLOCK REVETMENT MAT
-  RIPRAP



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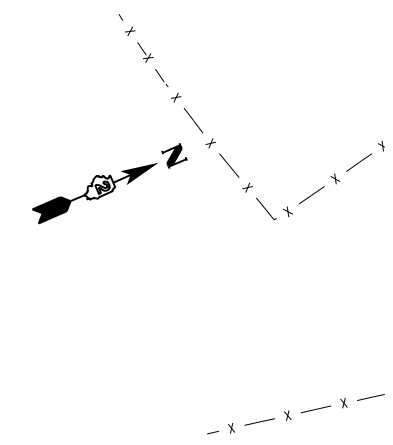
USER NAME = Plotted by LinZi	DESIGNED - JAH	REVISED -
	DRAWN - JAH	REVISED -
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PLOT DATE = 12/18/2014	DATE - 06/20/2014	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

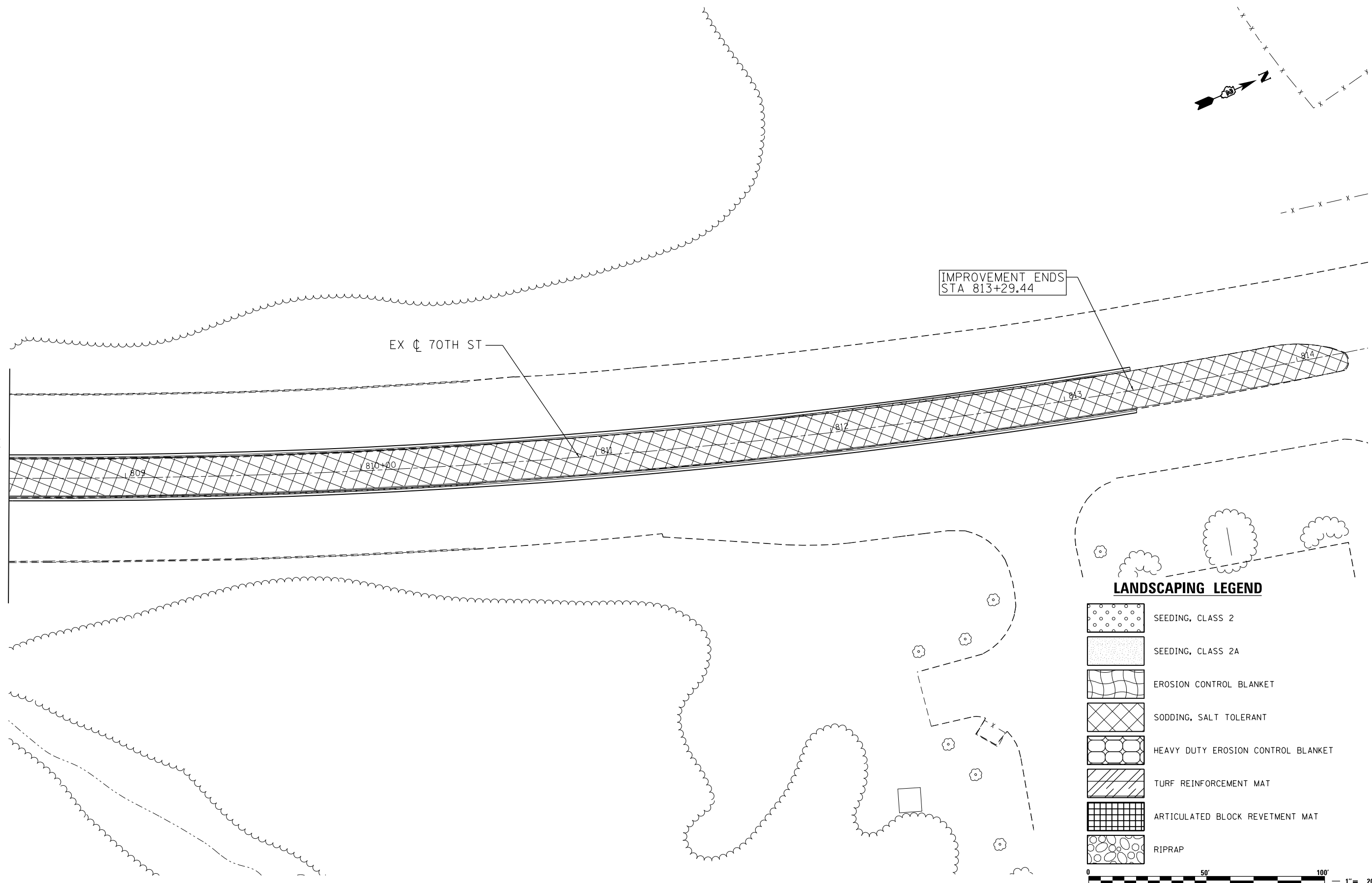
**70TH STREET
 PERMANENT EROSION CONTROL AND LANDSCAPING PLANS**

SCALE: 1"=20' SHEET NO. 43 OF 56 SHEETS STA. 803+00.00 TO STA. 808+50.00

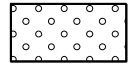




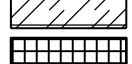
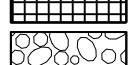
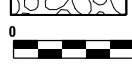
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
595	(142-1, 142)R	ROCK ISLAND	1353	906
FED. ROAD DIST. NO. 2 ILLINOIS FED. AID PROJECT			CONTRACT NO. 64B83	



MATCH LINE STA 808+50
SEE SHEET 906



LANDSCAPING LEGEND

-  SEEDING, CLASS 2
-  SEEDING, CLASS 2A
-  EROSION CONTROL BLANKET
-  SODDING, SALT TOLERANT
-  HEAVY DUTY EROSION CONTROL BLANKET
-  TURF REINFORCEMENT MAT
-  ARTICULATED BLOCK REVETMENT MAT
-  RIPRAP



Lin Engineering, Ltd.
Consulting Engineers
Springfield, Illinois

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PLOT DATE = 12/18/2014	DATE - 06/20/2014	REVISED -

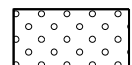

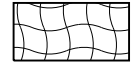

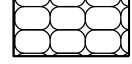



**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

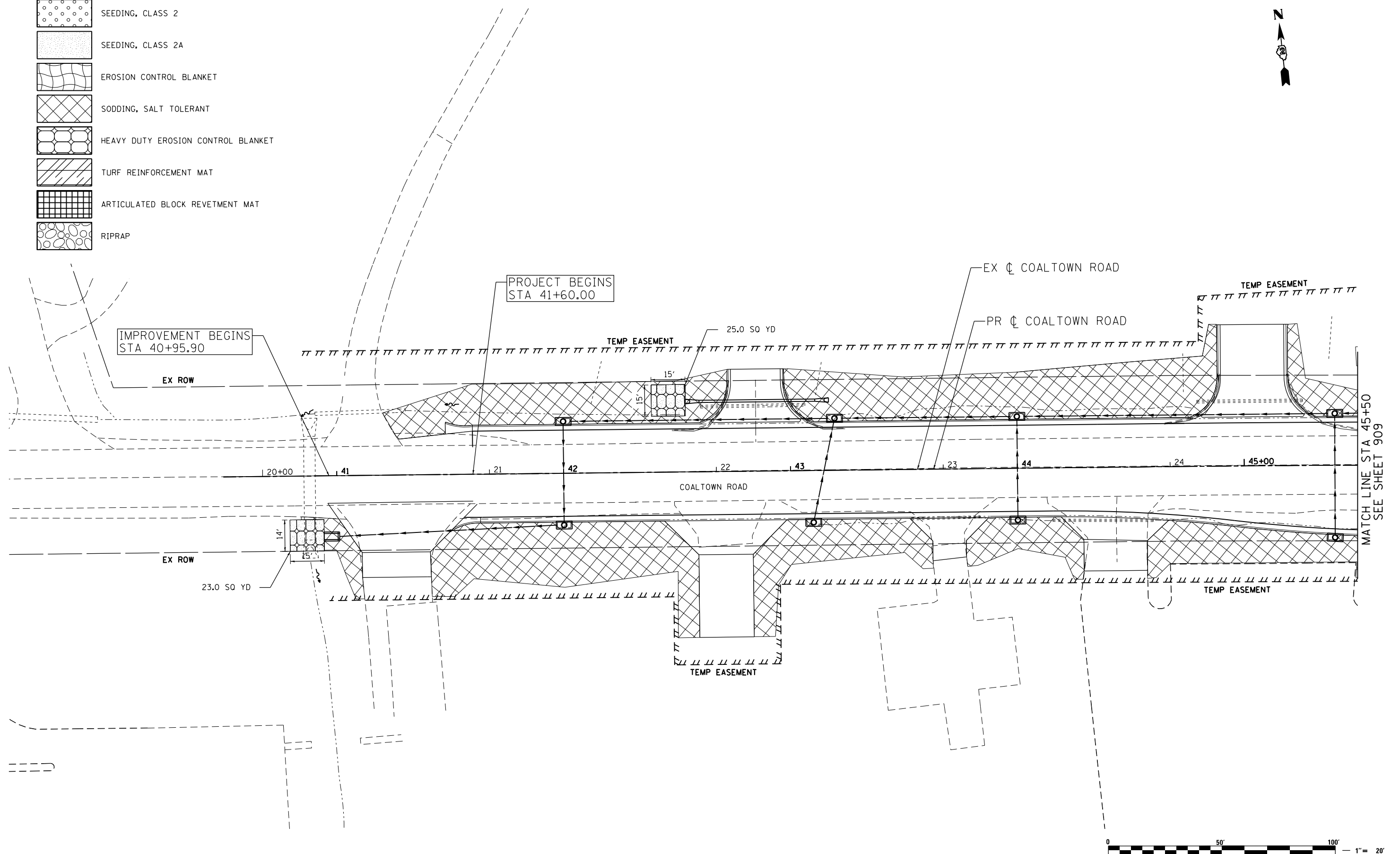
**70TH STREET
PERMANENT EROSION CONTROL AND LANDSCAPING PLANS**

SCALE: 1"=20' SHEET NO. 44 OF 56 SHEETS STA. 808+50.00 TO STA. 813+29.44

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
595	(142-1, 142)R	ROCK ISLAND	1353	907
FED. ROAD DIST. NO. 2 ILLINOIS FED. AID PROJECT			CONTRACT NO. 64B83	

LANDSCAPING LEGEND

-  SEEDING, CLASS 2
-  SEEDING, CLASS 2A
-  EROSION CONTROL BLANKET
-  SODDING, SALT TOLERANT
-  HEAVY DUTY EROSION CONTROL BLANKET
-  TURF REINFORCEMENT MAT
-  ARTICULATED BLOCK REVETMENT MAT
-  RIPRAP



MATCH LINE STA 45+50
SEE SHEET 909



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Consulting Engineers
Springfield, Illinois

USER NAME = Plotted by LinZi	DESIGNED - JAH	REVISED -
DRAWN - JAH	REVISED -	
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PLOT DATE = 12/18/2014	DATE - 06/20/2014	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

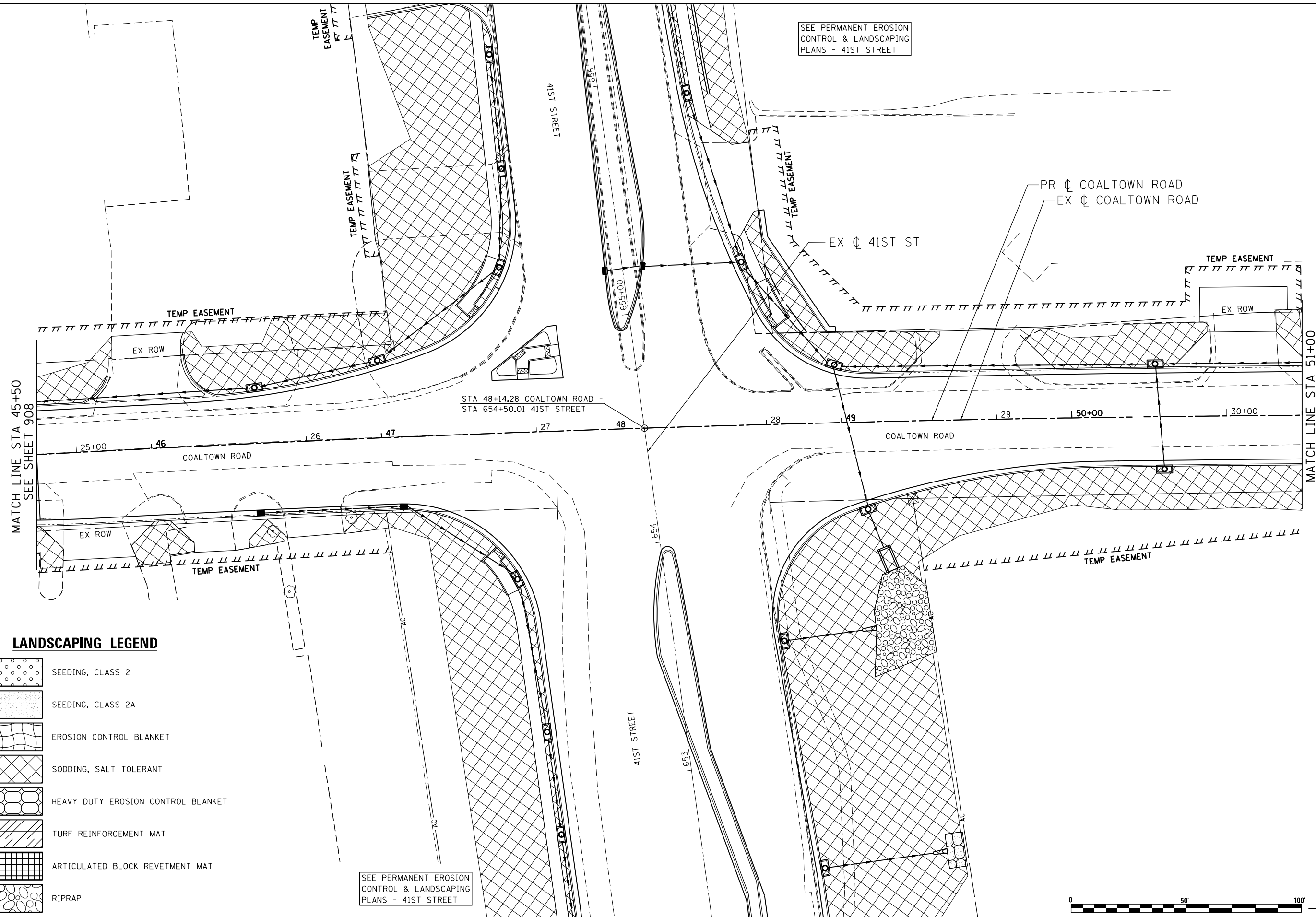
**COALTOWN ROAD
PERMANENT EROSION CONTROL AND LANDSCAPING PLANS**

SCALE: 1"=20' SHEET NO. 45 OF 56 SHEETS STA. 40+95.90 TO STA. 45+50.00


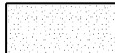






F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
595	(142-1, 142)R	ROCK ISLAND	1353	908
FED. ROAD DIST. NO. 2 ILLINOIS FED. AID PROJECT			CONTRACT NO. 64B83	



SEE PERMANENT EROSION CONTROL & LANDSCAPING PLANS - 41ST STREET



LANDSCAPING LEGEND

-  SEEDING, CLASS 2
-  SEEDING, CLASS 2A
-  EROSION CONTROL BLANKET
-  SODDING, SALT TOLERANT
-  HEAVY DUTY EROSION CONTROL BLANKET
-  TURF REINFORCEMENT MAT
-  ARTICULATED BLOCK REVETMENT MAT
-  RIPRAP

SEE PERMANENT EROSION CONTROL & LANDSCAPING PLANS - 41ST STREET



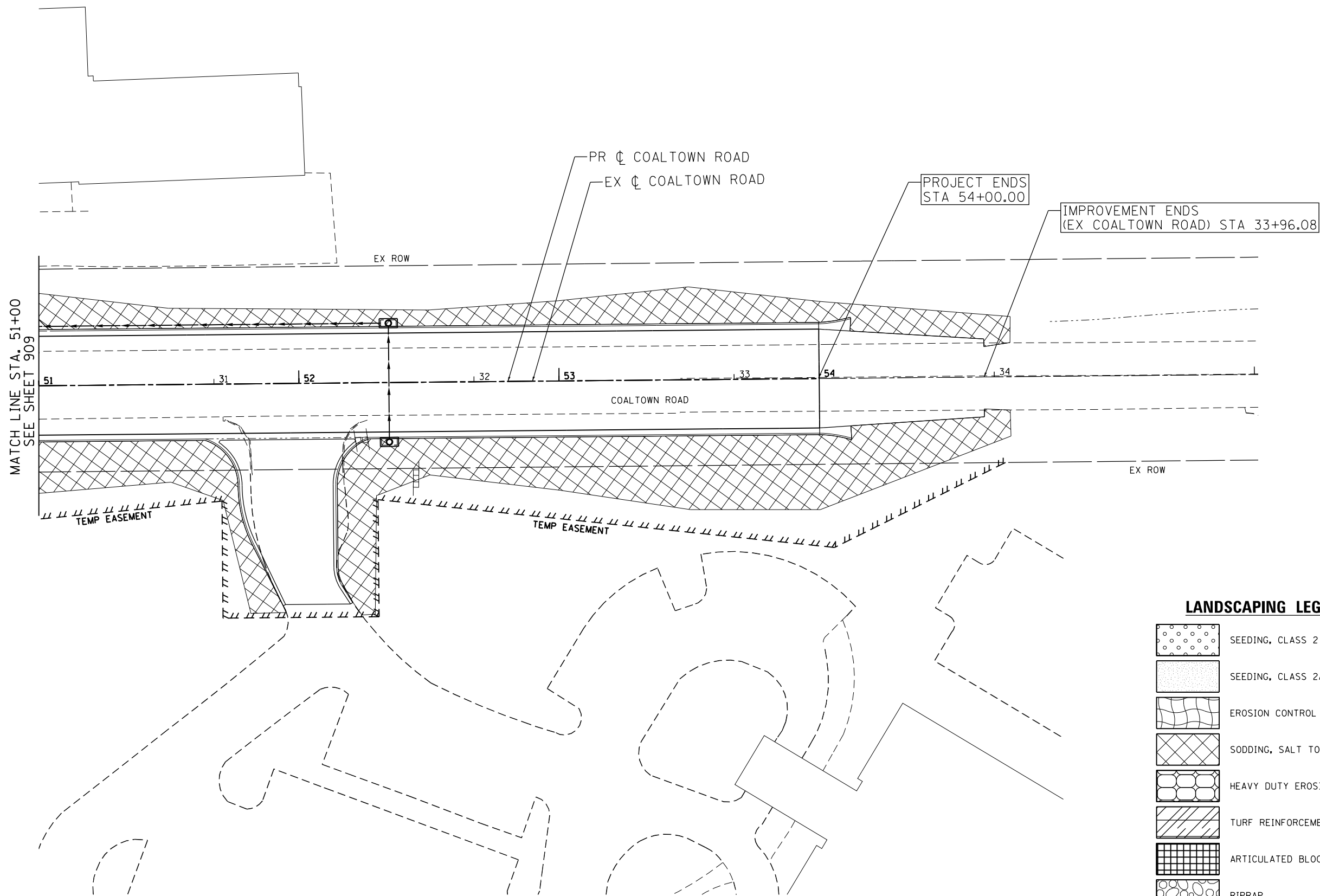
USER NAME = Plotted by LinZi	DESIGNED - JAH	REVISED -
PLOT SCALE = 40.0000' / in.	DRAWN - JAH	REVISED -
PLOT DATE = 12/18/2014	CHECKED - AG	REVISED -
	DATE - 06/20/2014	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

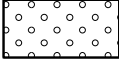




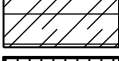


**COALTOWN ROAD
PERMANENT EROSION CONTROL AND LANDSCAPING PLANS**

SCALE: 1"=20' SHEET NO. 46 OF 56 SHEETS STA. 45+50.00 TO STA. 51+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
595	(142-1, 142)R	ROCK ISLAND	1353	909
FED. ROAD DIST. NO. 2 ILLINOIS FED. AID PROJECT			CONTRACT NO. 64B83	



LANDSCAPING LEGEND

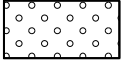
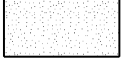






-  SEEDING, CLASS 2
-  SEEDING, CLASS 2A
-  EROSION CONTROL BLANKET
-  SODDING, SALT TOLERANT
-  HEAVY DUTY EROSION CONTROL BLANKET
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-  ARTICULATED BLOCK REVETMENT MAT
-  RIPRAP



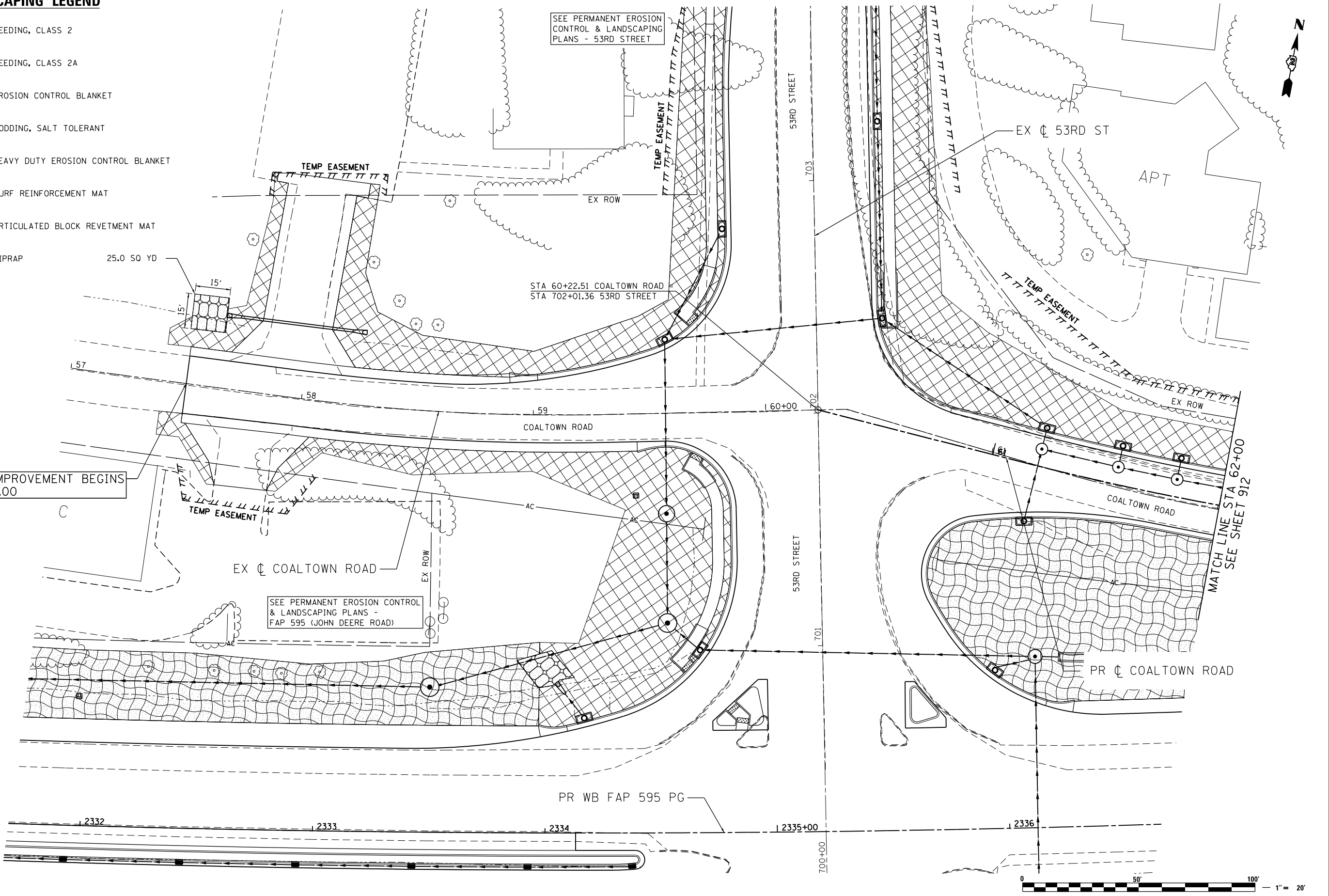
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PLOT DATE = 12/18/2014	DATE - 06/20/2014	REVISED -

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595	(142-1, 142)R	ROCK ISLAND	1353	910
FED. ROAD DIST. NO. 2 ILLINOIS FED. AID PROJECT			CONTRACT NO. 64B83	

LANDSCAPING LEGEND

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-  SEEDING, CLASS 2A
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-  ARTICULATED BLOCK REVETMENT MAT
-  RIPRAP

PROJECT/IMPROVEMENT BEGINS
STA 57+50.00



SEE PERMANENT EROSION CONTROL & LANDSCAPING PLANS - 53RD STREET

SEE PERMANENT EROSION CONTROL & LANDSCAPING PLANS - FAP 595 (JOHN DEERE ROAD)

MATCH LINE STA 62+00
SEE SHEET 912



USER NAME = Plotted by LinZl	DESIGNED - JAH	REVISED -
DRAWN - JAH	REVISED -	
PLOT SCALE = 48.0000' / in.	CHECKED - AG	REVISED -
PLOT DATE = 12/18/2014	DATE - 06/20/2014	REVISED -

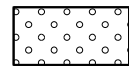
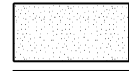
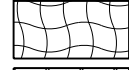





**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

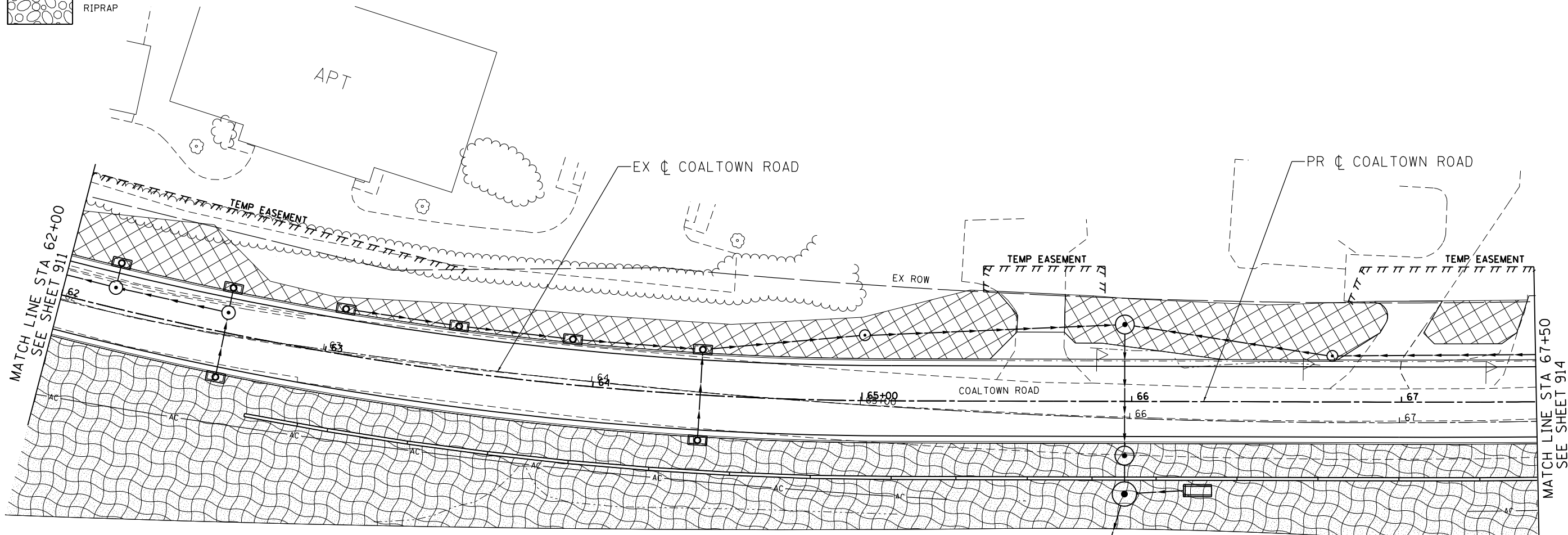
**COALTOWN ROAD
PERMANENT EROSION CONTROL AND LANDSCAPING PLANS**

SCALE: 1"=20' SHEET NO. 48 OF 56 SHEETS STA. 57+50.00 TO STA. 62+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
595	(142-1, 142)R	ROCK ISLAND	1353	911
FED. ROAD DIST. NO. 2 ILLINOIS FED. AID PROJECT			CONTRACT NO. 64B83	

LANDSCAPING LEGEND

-  SEEDING, CLASS 2
-  SEEDING, CLASS 2A
-  EROSION CONTROL BLANKET
-  SODDING, SALT TOLERANT
-  HEAVY DUTY EROSION CONTROL BLANKET
-  TURF REINFORCEMENT MAT
-  ARTICULATED BLOCK REVETMENT MAT
-  RIPRAP



SEE PERMANENT EROSION CONTROL
& LANDSCAPING PLANS -
FAP 595 (JOHN DEERE ROAD)



Lin Engineering, Ltd.
Consulting Engineers
Springfield, Illinois

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DRAWN - JAH	REVISIONS -	
PLOT SCALE = 40.0000' / in.	CHECKED - AG	REVISED -
PLOT DATE = 12/18/2014	DATE - 06/20/2014	REVISED -

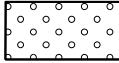

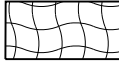
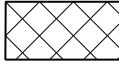
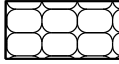
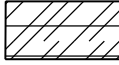
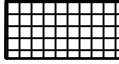

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

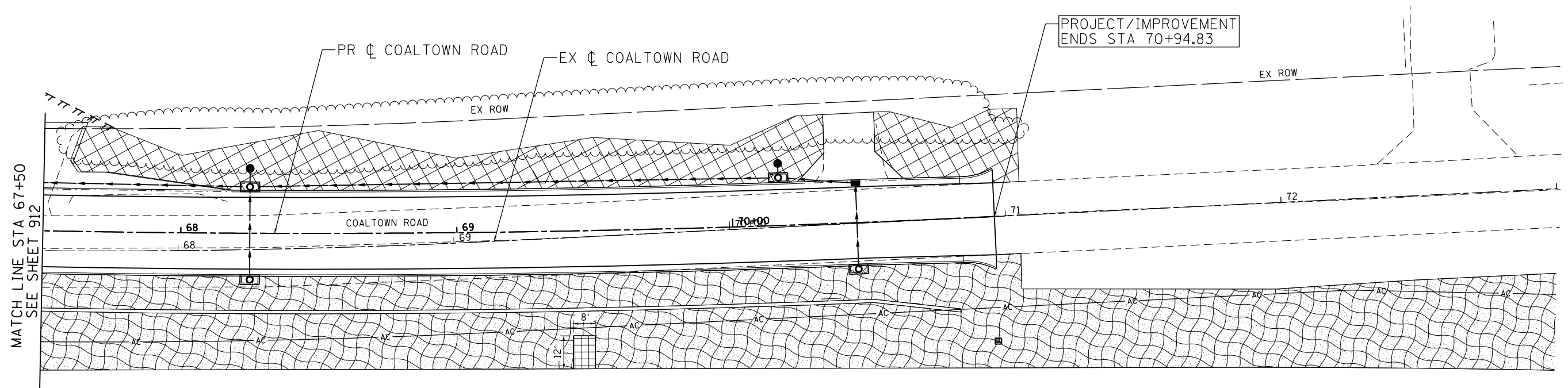
COALTOWN ROAD
PERMANENT EROSION CONTROL AND LANDSCAPING PLANS

SCALE: 1"=20' SHEET NO. 49 OF 56 SHEETS STA. 62+00.00 TO STA. 67+50.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
595	(142-1, 142)R	ROCK ISLAND	1353	912
FED. ROAD DIST. NO. 2 ILLINOIS FED. AID PROJECT			CONTRACT NO. 64B83	

LANDSCAPING LEGEND

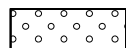




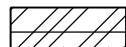


-  SEEDING, CLASS 2
-  SEEDING, CLASS 2A
-  EROSION CONTROL BLANKET
-  SODDING, SALT TOLERANT
-  HEAVY DUTY EROSION CONTROL BLANKET
-  TURF REINFORCEMENT MAT
-  ARTICULATED BLOCK REVETMENT MAT
-  RIPRAP



USER NAME = Plotted by LinZi	DESIGNED - JAH	REVISED -
	DRAWN - JAH	REVISED -
PLOT SCALE = 40.0000' / in.	CHECKED - AG	REVISED -
PLOT DATE = 12/18/2014	DATE - 06/20/2014	REVISED -

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
595	(142-1, 142)R	ROCK ISLAND	1353	913
FED. ROAD DIST. NO. 2 ILLINOIS FED. AID PROJECT			CONTRACT NO. 64B83	

LANDSCAPING LEGEND

-  SEEDING, CLASS 2
-  SEEDING, CLASS 2A
-  EROSION CONTROL BLANKET
-  SODDING, SALT TOLERANT
-  HEAVY DUTY EROSION CONTROL BLANKET
-  TURF REINFORCEMENT MAT
-  ARTICULATED BLOCK REVETMENT MAT
-  RIPRAP

SEE PERMANENT EROSION CONTROL & LANDSCAPING PLANS - 60TH STREET

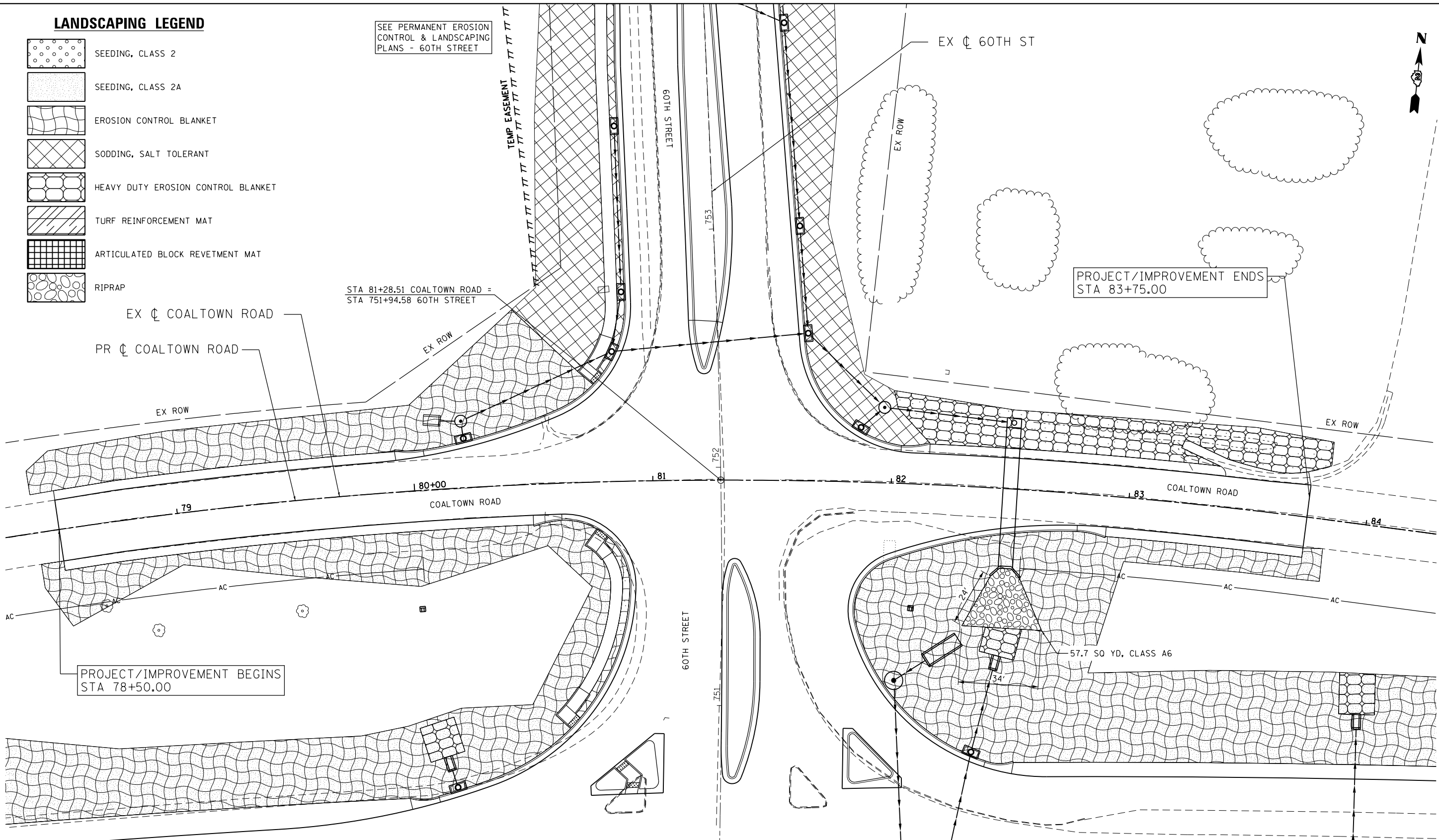
STA 81+28.51 COALTOWN ROAD = STA 751+94.58 60TH STREET

PROJECT/IMPROVEMENT ENDS STA 83+75.00

PROJECT/IMPROVEMENT BEGINS STA 78+50.00

SEE PERMANENT EROSION CONTROL & LANDSCAPING PLANS - FAP 595 (JOHN DEERE ROAD)

SEE PERMANENT EROSION CONTROL & LANDSCAPING PLANS - FAP 595 (JOHN DEERE ROAD)



Lin Engineering, Ltd.
Consulting Engineers
Springfield, Illinois

USER NAME = Plotted by Lin21	DESIGNED - JAH	REVISED -
DRAWN - JAH	REVISED -	
PLOT SCALE = 40.0000' / in.	CHECKED - AG	REVISED -
PLOT DATE = 12/18/2014	DATE - 06/20/2014	REVISED -

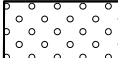



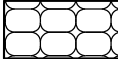
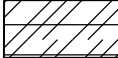
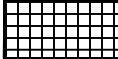

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

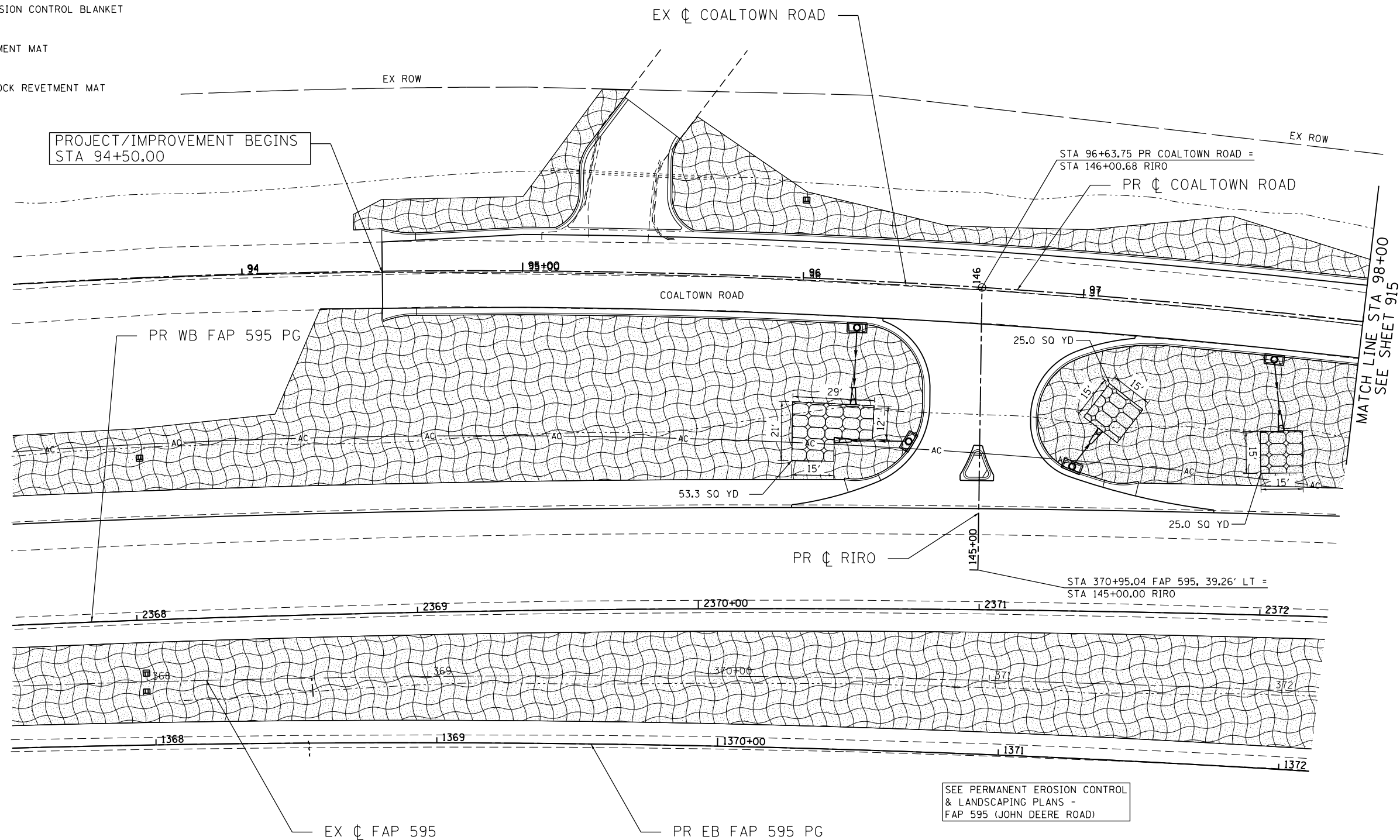
**COALTOWN ROAD
PERMANENT EROSION CONTROL AND LANDSCAPING PLANS**

SCALE: 1"=20' SHEET NO. 51 OF 56 SHEETS STA. 78+50.00 TO STA. 83+75.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
595	(142-1, 142)R	ROCK ISLAND	1353	914
FED. ROAD DIST. NO. 2 ILLINOIS FED. AID PROJECT			CONTRACT NO. 64B83	

LANDSCAPING LEGEND

-  SEEDING, CLASS 2
-  SEEDING, CLASS 2A
-  EROSION CONTROL BLANKET
-  SODDING, SALT TOLERANT
-  HEAVY DUTY EROSION CONTROL BLANKET
-  TURF REINFORCEMENT MAT
-  ARTICULATED BLOCK REVETMENT MAT
-  RIPRAP



Lin Engineering, Ltd.
Consulting Engineers
Springfield, Illinois

USER NAME = Plotted by LinZl	DESIGNED - JAH	REVISED -
DRAWN - JAH	REVISIONS -	
PLOT SCALE = 40.0000' / in.	CHECKED - AG	REVISED -
PLOT DATE = 12/18/2014	DATE - 06/20/2014	REVISED -

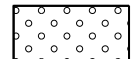



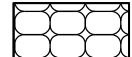
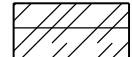
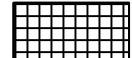

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

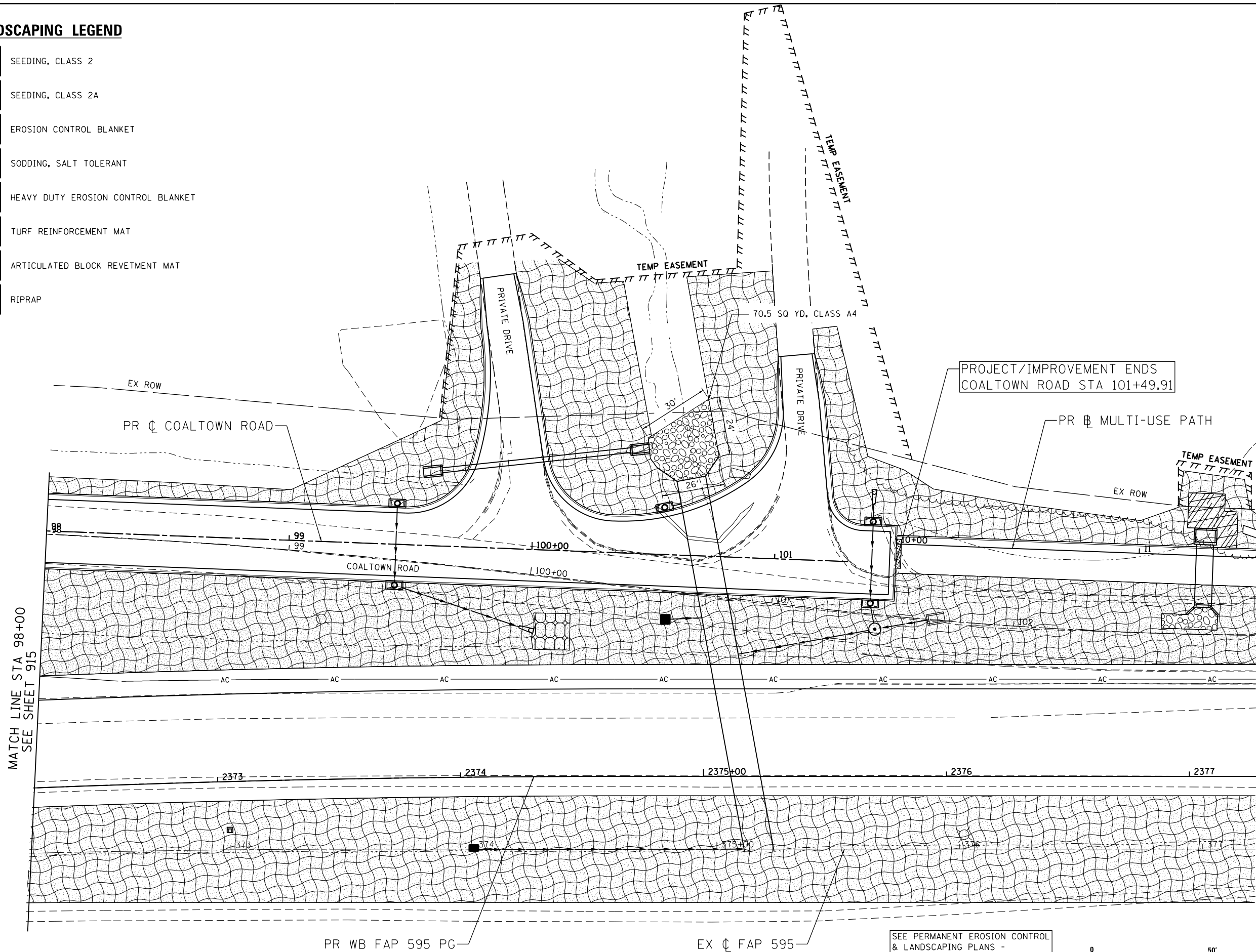
COALTOWN ROAD
PERMANENT EROSION CONTROL AND LANDSCAPING PLANS

SCALE: 1"=20' SHEET NO. 52 OF 56 SHEETS STA. 94+50.00 TO STA. 98+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
595	(142-1, 142)R	ROCK ISLAND	1353	915
CONTRACT NO. 64B83				
FED. ROAD DIST. NO. 2 ILLINOIS FED. AID PROJECT				

LANDSCAPING LEGEND

-  SEEDING, CLASS 2
-  SEEDING, CLASS 2A
-  EROSION CONTROL BLANKET
-  SODDING, SALT TOLERANT
-  HEAVY DUTY EROSION CONTROL BLANKET
-  TURF REINFORCEMENT MAT
-  ARTICULATED BLOCK REVETMENT MAT
-  RIPRAP



SEE PERMANENT EROSION CONTROL & LANDSCAPING PLANS - FAP 595 (JOHN DEERE ROAD)



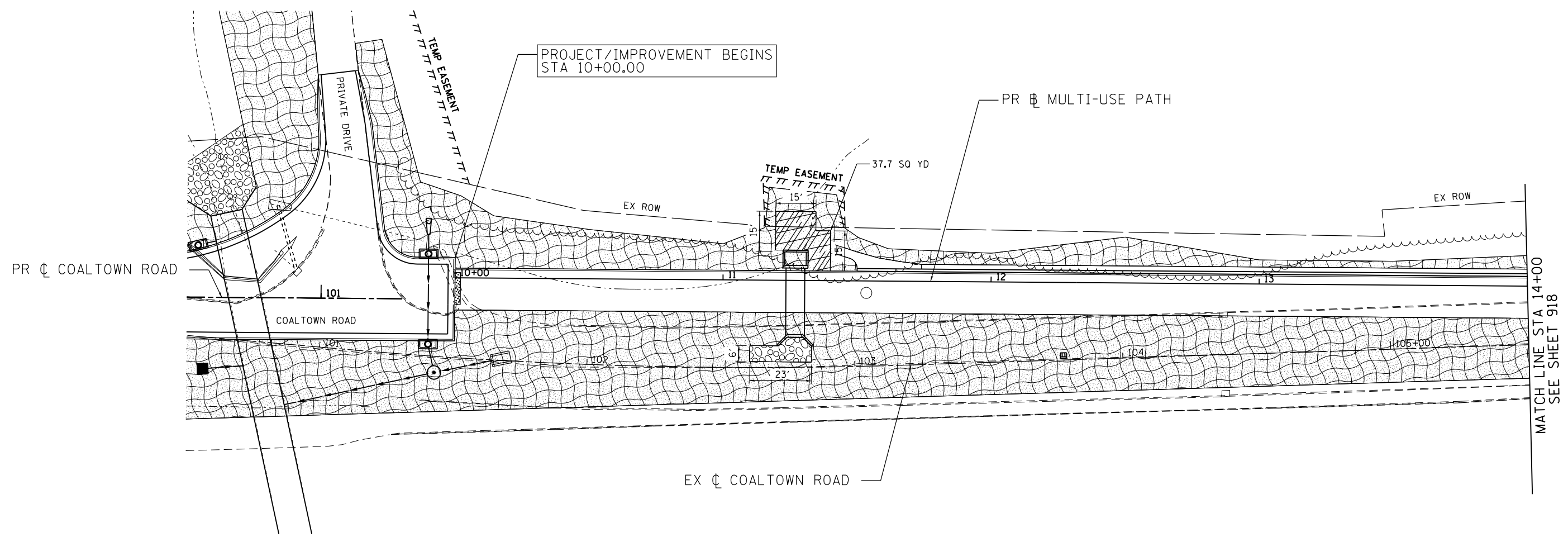
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DRAWN - JAH	REVISED -	
PLOT SCALE = 40.0000' / in.	CHECKED - AG	REVISED -
PLOT DATE = 12/18/2014	DATE - 06/20/2014	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

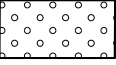




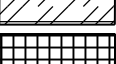

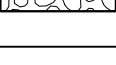
**COALTOWN ROAD
PERMANENT EROSION CONTROL AND LANDSCAPING PLANS**

SCALE: 1"=20' SHEET NO. 53 OF 56 SHEETS STA. 98+00.00 TO STA. 101+49.91

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
595	(142-1, 142)R	ROCK ISLAND	1353	916
FED. ROAD DIST. NO. 2 ILLINOIS FED. AID PROJECT			CONTRACT NO. 64B83	



LANDSCAPING LEGEND

-  SEEDING, CLASS 2
-  SEEDING, CLASS 2A
-  EROSION CONTROL BLANKET
-  SODDING, SALT TOLERANT
-  HEAVY DUTY EROSION CONTROL BLANKET
-  TURF REINFORCEMENT MAT
-  ARTICULATED BLOCK REVETMENT MAT
-  RIPRAP



Lin Engineering, Ltd.
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Springfield, Illinois

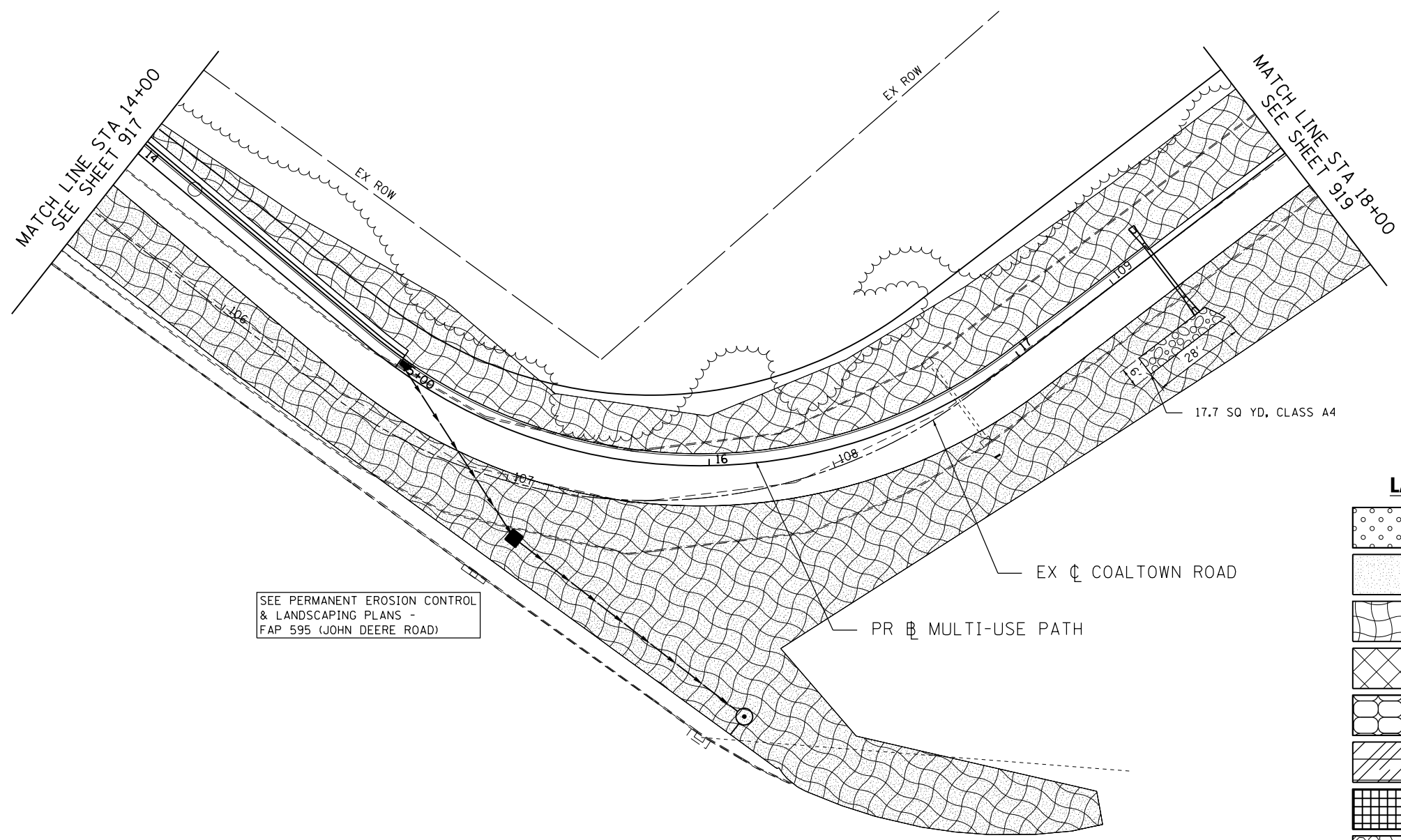
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PLOT SCALE = 40.0000' / in.	DRAWN - JAH	REVISED -
PLOT DATE = 12/18/2014	CHECKED - AG	REVISED -
	DATE - 06/20/2014	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**MULTI-USE PATH
PERMANENT EROSION CONTROL AND LANDSCAPING PLANS**

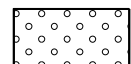







SCALE: 1"=20' SHEET NO. 54 OF 56 SHEETS STA. 10+00.00 TO STA. 14+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
595	(142-1, 142)R	ROCK ISLAND	1353	917
FED. ROAD DIST. NO. 2 ILLINOIS FED. AID PROJECT			CONTRACT NO. 64B83	



SEE PERMANENT EROSION CONTROL & LANDSCAPING PLANS - FAP 595 (JOHN DEERE ROAD)

LANDSCAPING LEGEND

-  SEEDING, CLASS 2
-  SEEDING, CLASS 2A
-  EROSION CONTROL BLANKET
-  SODDING, SALT TOLERANT
-  HEAVY DUTY EROSION CONTROL BLANKET
-  TURF REINFORCEMENT MAT
-  ARTICULATED BLOCK REVETMENT MAT
-  RIPRAP



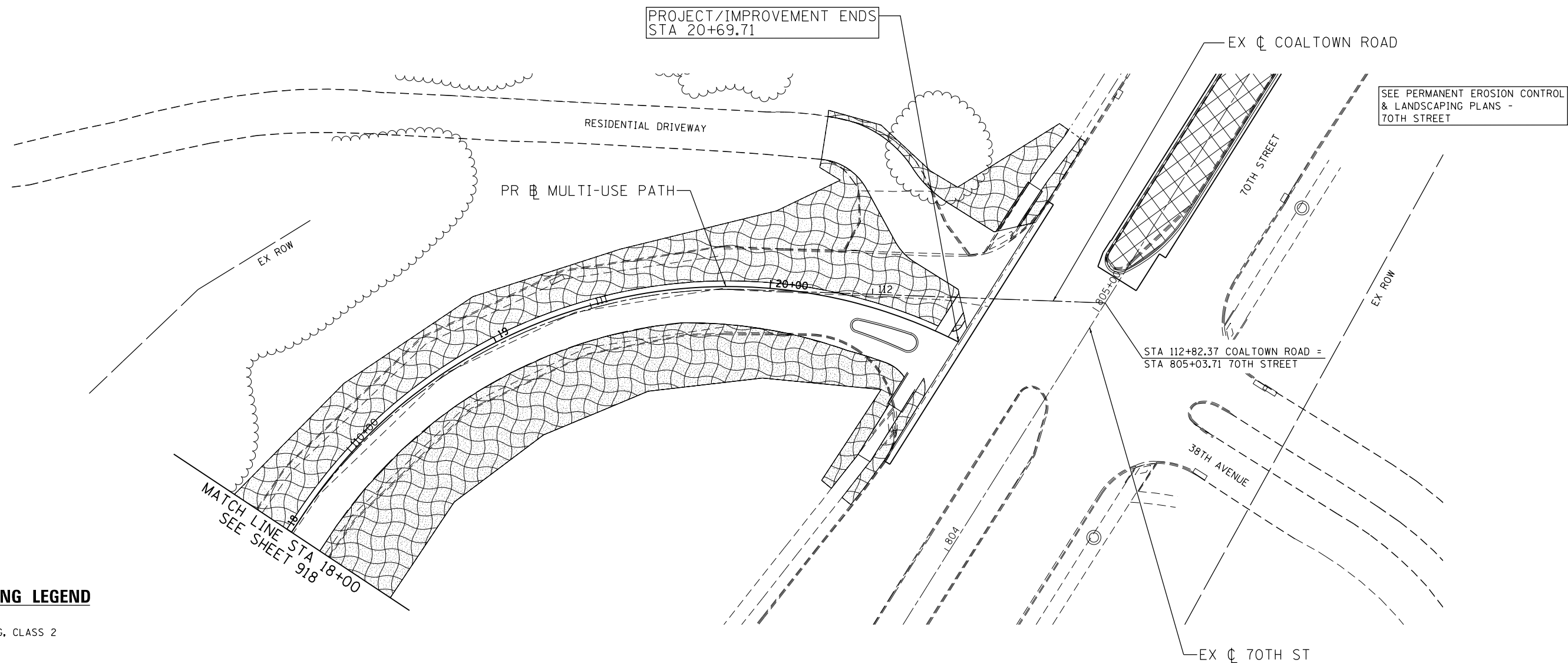
LIN ENGINEERING, LTD.
Consulting Engineers
Springfield, Illinois

USER NAME = Plotted by LinZi	DESIGNED - JAH	REVISED -
	DRAWN - JAH	REVISED -
PLOT SCALE = 40.0000' / in.	CHECKED - AG	REVISED -
PLOT DATE = 12/18/2014	DATE - 06/20/2014	REVISED -

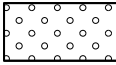





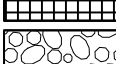
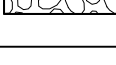
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**MULTI-USE PATH
PERMANENT EROSION CONTROL AND LANDSCAPING PLANS**
SCALE: 1"=20' SHEET NO. 55 OF 56 SHEETS STA. 14+00.00 TO STA. 18+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
595	(142-1, 142)R	ROCK ISLAND	1353	918
FED. ROAD DIST. NO. 2 ILLINOIS FED. AID PROJECT			CONTRACT NO. 64B83	



LANDSCAPING LEGEND

-  SEEDING, CLASS 2
-  SEEDING, CLASS 2A
-  EROSION CONTROL BLANKET
-  SODDING, SALT TOLERANT
-  HEAVY DUTY EROSION CONTROL BLANKET
-  TURF REINFORCEMENT MAT
-  ARTICULATED BLOCK REVETMENT MAT
-  RIPRAP



Lin Engineering, Ltd.
Consulting Engineers
Springfield, Illinois

USER NAME = Plotted by LinZi	DESIGNED - JAH	REVISED -
	DRAWN - JAH	REVISED -
PLOT SCALE = 40.0000' / in.	CHECKED - AG	REVISED -
PLOT DATE = 12/18/2014	DATE - 06/20/2014	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**MULTI-USE PATH
PERMANENT EROSION CONTROL AND LANDSCAPING PLANS**

SCALE: 1"=20' SHEET NO. 56 OF 56 SHEETS STA. 18+00.00 TO STA. 20+69.71

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
595	(142-1, 142)R	ROCK ISLAND	1353	919
FED. ROAD DIST. NO. 2 ILLINOIS FED. AID PROJECT			CONTRACT NO. 64B83	

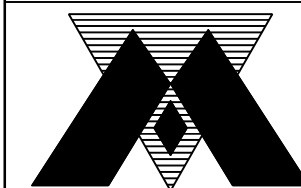
TRAFFIC SIGNAL SCHEDULE OF QUANTITIES

ITEM NO.	ITEM	UNIT	JOHN DEERE RD AT 38TH ST	JOHN DEERE RD AT 41ST ST	JOHN DEERE RD AT 53RD ST	JOHN DEERE RD AT 60TH ST	JOHN DEERE RD AT 70TH ST	38TH AVENUE (COALTOWN RD) AT 41ST STREET	41ST AVE DR AT 41ST ST	60TH ST AT 44TH AVE	INTERCONNECT	TOTAL
50200400	ROCK EXCAVATION FOR STRUCTURES	CU YD		10.9	5.3	8.2	2.8	3.2	0.2			31
72000100	SIGN PANEL - TYPE 1	SQ FT		38	10	20	10					78
72000200	SIGN PANEL - TYPE 2	SQ FT		58	58	58	58	52	40			324
80500100	SERVICE INSTALLATION - TYPE A	EACH		1	1	1	1	1	1			6
81028740	UNDERGROUND CONDUIT, COILABLE NONMETALLIC CONDUIT, 1 1/2" DIA.	FOOT		11	13	26	15	24	15			104
81028750	UNDERGROUND CONDUIT, COILABLE NONMETALLIC CONDUIT, 2" DIA.	FOOT									10041	10041
81028760	UNDERGROUND CONDUIT, COILABLE NONMETALLIC CONDUIT, 2 1/2" DIA.	FOOT	700	284	222	201	249	19	21			1696
81028770	UNDERGROUND CONDUIT, COILABLE NONMETALLIC CONDUIT, 3" DIA.	FOOT		70	58	24	33	28	47			260
81028790	UNDERGROUND CONDUIT, COILABLE NONMETALLIC CONDUIT, 4" DIA.	FOOT		870	615	774	646	392	403			3700
81400200	HEAVY-DUTY HANDHOLE	EACH		1							15	16
81400730	HANDHOLE, COMPOSITE CONCRETE	EACH		8	6	6	8	4	3		6	41
81400740	DOUBLE HANDHOLE, COMPOSITE CONCRETE	EACH		1	2	2	2	1	1			9
81702110	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 10	FOOT	1452	1392	1196	1089	1144	946	1688			8907
82103400	LUMINAIRE, SODIUM VAPOR, HORIZONTAL MOUNT, PHOTO-CELL CONTROL, 400 WATT	EACH		4	4	4	4					16
83006500	LIGHT POLE, ALUMINUM, 30 FT. M.H., 12 FT. MAST ARM	EACH	2						1			3
83600352	LIGHT POLE FOUNDATION, METAL, 11 1/2" BOLT CIRCLE, 8 5/8" X 6'	EACH	2						1			3
83800105	BREAKAWAY DEVICE, TRANSFORMER BASE, 11.5 INCH BOLT CIRCLE	EACH	2						1			3
84500120	REMOVAL OF ELECTRICAL SERVICE INSTALLATION	EACH		1	1	1	1	1				5
85700200	FULL-ACTUATED CONTROLLER AND TYPE IV CABINET	EACH		1	1	1		1	1			5
85700300	FULL-ACTUATED CONTROLLER AND TYPE V CABINET	EACH					1					1
85900100	TRANSCEIVER	EACH						1	1			2
85900200	TRANSCEIVER (SPECIAL)	EACH		1								1
86000100	MASTER CONTROLLER	EACH					1					1
86400100	TRANSCEIVER - FIBER OPTIC	EACH			1	1	1					3
87100020	FIBER OPTIC CABLE IN CONDUIT, NO. 62.5/125, MM12F SM12F	FOOT									8494	8494
87300925	ELECTRIC CABLE IN CONDUIT, TRACER, NO. 14 1C	FOOT									8494	8494
87301215	ELECTRIC CABLE IN CONDUIT, SIGNAL, NO. 14 2C	FOOT		859	745	1251		685				3540
87301225	ELECTRIC CABLE IN CONDUIT, SIGNAL, NO. 14 3C	FOOT		1384	1154	1873		920				5331
87301245	ELECTRIC CABLE IN CONDUIT, SIGNAL, NO. 14 5C	FOOT		8549	4383	5884	3331	2013	1410			25570
87301255	ELECTRIC CABLE IN CONDUIT, SIGNAL, NO. 14 7C	FOOT		1768	2996	1586	3155	1199	857			11561
87301705	ELECTRIC CABLE IN CONDUIT, COMMUNICATION NO. 18 3 PAIR	FOOT									3015	3015
87301805	ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C	FOOT		88	92	92	96	110	50			528
87301900	ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT		914	678	695	689	527	628			4131
87502440	TRAFFIC SIGNAL POST, GALVANIZED STEEL 10 FT.	EACH		1	2	2		1				6
87502480	TRAFFIC SIGNAL POST, GALVANIZED STEEL 14 FT.	EACH		3			2					5
87502500	TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EACH		3	4	4	4	1	1			17
87702890	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 32 FT.	EACH			1							1
87702930	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 40 FT.	EACH			1		1					2
87702940	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 42 FT.	EACH					2					2
87702990	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 54 FT.	EACH				1						1
87703020	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 58 FT.	EACH		1			1					2
87703030	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 60 FT.	EACH		1								1
87703050	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 64 FT.	EACH				1						1
87703090	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 70 FT.	EACH			1							1

△
△
△

△ THE R.E. SHALL CONTACT SCOTT KULLERSTRAND FOR LIGHT POLE FOUNDATION PLACEMENT.

FILE NAME : N:\PROJ\0003393\00\CONTRACT_2\Design\Signals\AD264883-shr-TS01_S00.dgn
 USER : MPROF
 PLOT DATE : 7/16/2015



2600 Warrenville Road, Suite 203, Downers Grove, IL 60515-1761
 630.705.0110 voice, 630.839.2566 fax
 www.mps-il.com
MILLENNIA PROFESSIONAL SERVICES

DESIGNED -	MP/S	REVISED -	
DRAWN -	MP/S	REVISED -	
CHECKED -	MP/S	REVISED -	
DATE -	7/16/2015	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

FAP 595 (JOHN DEERE ROAD)
TRAFFIC SIGNAL SCHEDULE OF QUANTITIES

SCALE: SHEET NO. 1 OF 2 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
595	(142-1, 142)R	ROCK ISLAND	1353	920
CONTRACT NO. 64B83				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

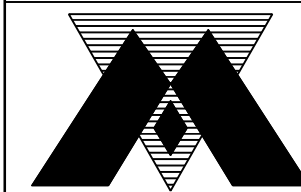
TS-01

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TRAFFIC SIGNAL SCHEDULE OF QUANTITIES

ITEM NO.	ITEM	UNIT	JOHN DEERE RD AT 38TH ST	JOHN DEERE RD AT 41ST ST	JOHN DEERE RD AT 53RD ST	JOHN DEERE RD AT 60TH ST	JOHN DEERE RD AT 70TH ST	38TH AVENUE (COALTOWN RD) AT 41ST STREET	41ST AVE DR AT 41ST ST	60TH ST AT 44TH AVE	INTERCONNECT	TOTAL
87703100	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 72 FT.	EACH				2						2
87703110	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 74 FT.	EACH		2	1							3
87800100	CONCRETE FOUNDATION, TYPE A	FOOT		28	24	24	20	8	4			108
87800200	CONCRETE FOUNDATION, TYPE D	FOOT		4	4	4	4	4	4			24
87800400	CONCRETE FOUNDATION, TYPE E 30-INCH DIAMETER	FOOT			15.5			15.5	17.5			49
87800415	CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT			16	16.5	45		34.5			112
87800420	CONCRETE FOUNDATION, TYPE E 42-INCH DIAMETER	FOOT		93.5	50	71	24.5	83.3				322
87900200	DRILL EXISTING HANDHOLE	EACH	2								1	3
88040070	SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH		4	1	1	2		1			9
88040090	SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH		18	12	17	7	7	5			66
88040150	SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH		2	3	3	4	2				14
88040160	SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED	EACH			2		2	2	2			8
88040230	SIGNAL HEAD, POLYCARBONATE, LED, 2-FACE, 3-SECTION, BRACKET MOUNTED	EACH		1		1						2
88040260	SIGNAL HEAD, POLYCARBONATE, LED, 2-FACE, 1-3-SECTION, 1-5-SECTION, BRACKET MOUNTED	EACH		3	3	3	2	2				13
88040290	SIGNAL HEAD, POLYCARBONATE, LED, 2-FACE, 5-SECTION, BRACKET MOUNTED	EACH			1		1		1			3
88102825	PEDESTRIAN SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIME	EACH		2	2	2		4				10
88102845	PEDESTRIAN SIGNAL HEAD, POLYCARBONATE, LED, 2-FACE, BRACKET MOUNTED WITH COUNTDOWN TIME	EACH		2	2	2		1				7
88200410	TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC	EACH		18	14	17	9	10	7			75
88800100	PEDESTRIAN PUSH-BUTTON	EACH		4	4	4		4				16
89000100	TEMPORARY TRAFFIC SIGNAL INSTALLATION	EACH	2	1	1	1	1	1				7
89502380	REMOVE EXISTING HANDHOLE	EACH		8	6	9	8	4				35
89502382	REMOVE EXISTING DOUBLE HANDHOLE	EACH		1	1	1	1	1				5
89502385	REMOVE EXISTING CONCRETE FOUNDATION	EACH		4	7	11	9	5				36
89502375	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH		1	1	1	1	1				5
X0326248	ATMS SOFTWARE (CORE MODULE)	L SUM									1	1
X0326477	WIRELESS VEHICLE DETECTION AND WARNING SYSTEM COMPLETE	EACH						1	1			2
X1400099	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 62 FT. (SPECIAL)	EACH						1				1
X1400100	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 66 FT. (SPECIAL)	EACH						1				1
X8211180	LUMINAIRE, LED, HORIZONTAL MOUNT, 180 WATT, 98 LED	EACH						4	4			8
X8772860	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 26 FT. (SPECIAL)	EACH						1				1
X8770135	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 42 FT. (SPECIAL)	EACH							1			1
X8770137	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 38 FT. (SPECIAL)	EACH							1			1
X8770140	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 46 FT. (SPECIAL)	EACH						1	1			2
X8900020	MAINTENANCE OF EXISTING TEMPORARY TRAFFIC SIGNAL INSTALLATION	EACH							1			1
X8900030	REMOVE EXISTING TEMPORARY TRAFFIC SIGNAL EQUIPMENT	EACH							1			1
X8900100	TEMPORARY TRAFFIC SIGNAL INSTALLATION (SPECIAL)	EACH								1		1
Z0033056	OPTIMIZE TRAFFIC SIGNAL SYSTEM	EACH									1	1
Z0033072	VIDEO VEHICLE DETECTION SYSTEM	EACH		1	1	1	1					4

FILE NAME : N:\PROJ\0003393\00\CONTRACT_2\Design\SIGNALS\AD264883-sht-TS02-S00.dgn
 USER : JENSEN, J
 USER NAME : JENSEN, J



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MILLENNIA PROFESSIONAL SERVICES

DESIGNED - JDBS1
 DRAWN - GDBS1
 CHECKED - JEBK1
 DATE - 7/16/2015

REVISED -
 REVISED -
 REVISED -
 REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**FAP 595 (JOHN DEERE ROAD)
 TRAFFIC SIGNAL SCHEDULE OF QUANTITIES**

SCALE: SHEET NO. 1 OF 2 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
595	(142-1, 142)R	ROCK ISLAND	1353	921
CONTRACT NO. 64B83				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

TS-02

N:\PROJ\0003393\00\CONTRACT_2\Design\SIGNALS\AD264883-sht-TS02-S00.dgn

(A)



3.00" Radius, 0.75" Border, White on Green;
 [John Deere Rd] C 2K 80% spacing;
 Table of letter and object lefts.

J	o	h	n	D	e	e	r	e	R	d
4.63	12.38	20.00	27.75	41.88	50.00	57.13	64.50	69.25	83.38	91.25

8 SIGNS REQUIRED
SIGN PANEL TYPE 2

(B)



1.88" Radius, 0.75" Border, White on Green;
 [41st Street] C 2K;
 Table of letter and object lefts.

4	l	s	t
3.25	12.88	17.00	21.13

S	t	r	e	e	t
32.38	39.88	45.50	50.38	57.63	64.38

5 SIGNS REQUIRED
SIGN PANEL TYPE 2

(C)



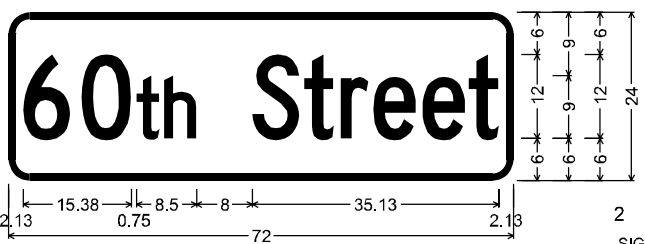
3.00" Radius, 1.00" Border, White on Green;
 [53rd Street] C 2K 75% spacing;
 Table of letter and object lefts.

5	3	r	d
2.50	10.38	18.25	21.75

S	t	r	e	e	t
34.38	41.63	46.88	51.63	58.63	65.13

2 SIGNS REQUIRED
SIGN PANEL TYPE 2

(D)



3.00" Radius, 1.00" Border, White on Green;
 [60th Street] C 2K 75% spacing;
 Table of letter and object lefts.

6	0	t	h
2.13	10.38	18.25	22.13

S	t	r	e	e	t
34.75	42.13	47.38	52.00	59.00	65.63

2 SIGNS REQUIRED
SIGN PANEL TYPE 2

(E)



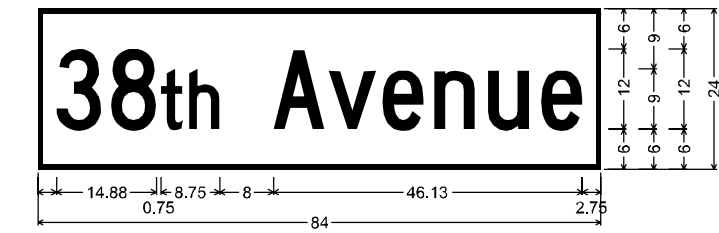
3.00" Radius, 1.00" Border, White on Green;
 [70th Street] C 2K 75% spacing;
 Table of letter and object lefts.

7	0	t	h
2.13	10.38	18.25	22.13

S	t	r	e	e	t
34.75	42.13	47.38	52.00	59.00	65.63

2 SIGNS REQUIRED
SIGN PANEL TYPE 2

(F)

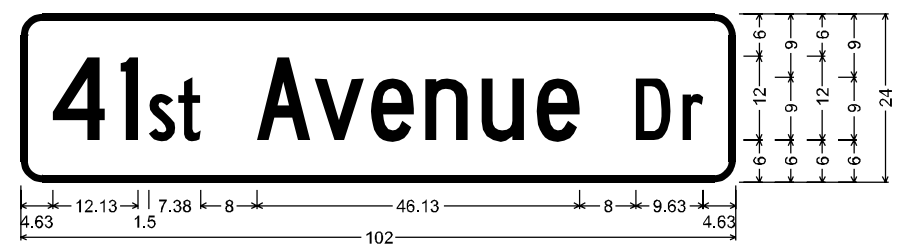


1.88" Radius, 0.75" Border, White on Green;
 [38th Avenue] C 2K;
 Table of letter and object lefts.

3	8	t	h	A	v	e	n	u	e
2.75	11.00	18.38	22.50	35.13	43.38	51.50	59.13	67.13	75.13

2 SIGNS REQUIRED
SIGN PANEL TYPE 2

(G)



3.00" Radius, 1.00" Border, White on Green;
 [41st Avenue Dr] C 2K;
 Table of letter and object lefts.

4	l	s	t	A	v	e	n	u	e	D	r
4.63	14.25	18.25	22.50	33.63	42.00	50.00	57.63	65.75	73.63	87.75	94.38

2 SIGNS REQUIRED
SIGN PANEL TYPE 2

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 PLOT SCALE = 2:0000 / in.
 USER NAME = Millennium Professional Services



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DRAWN	-	TVN	REVISED	-
CHECKED	-	MG	REVISED	-
DATE	-	12/18/2014	REVISED	-

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

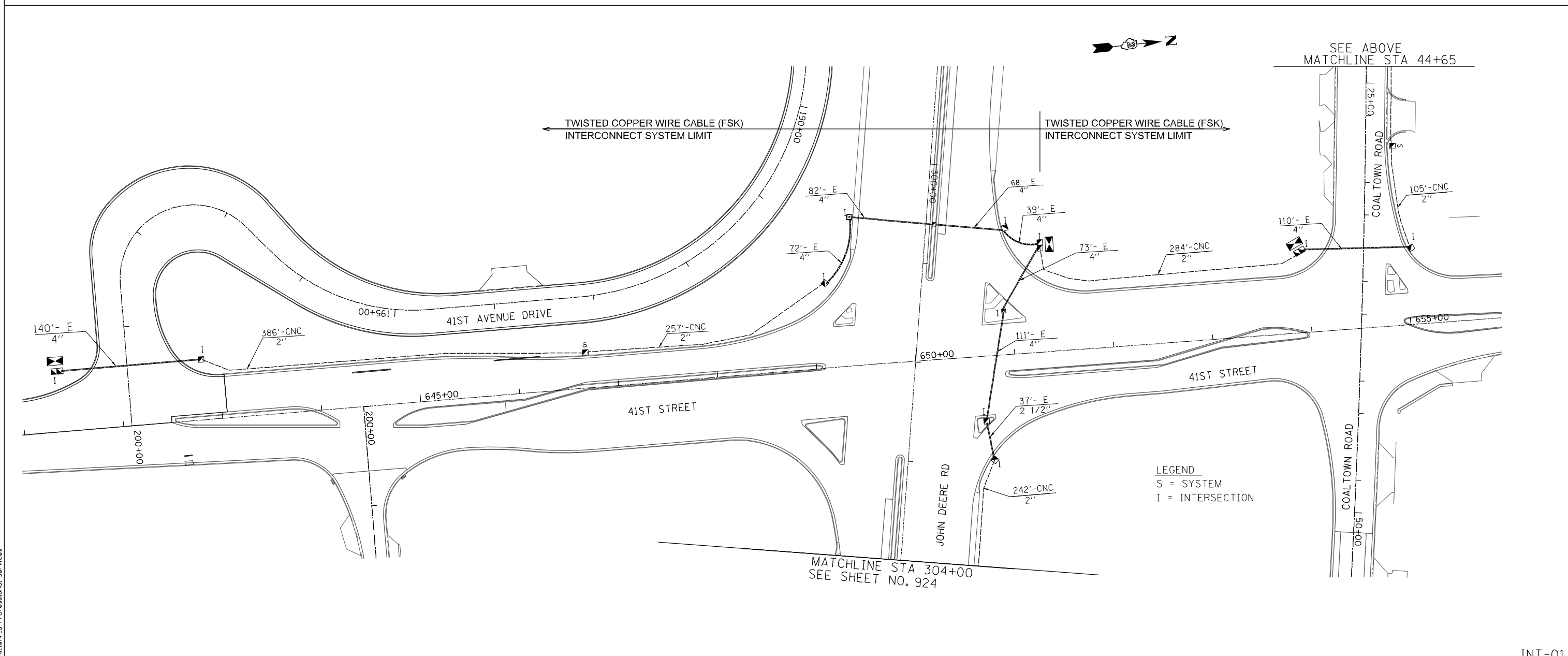
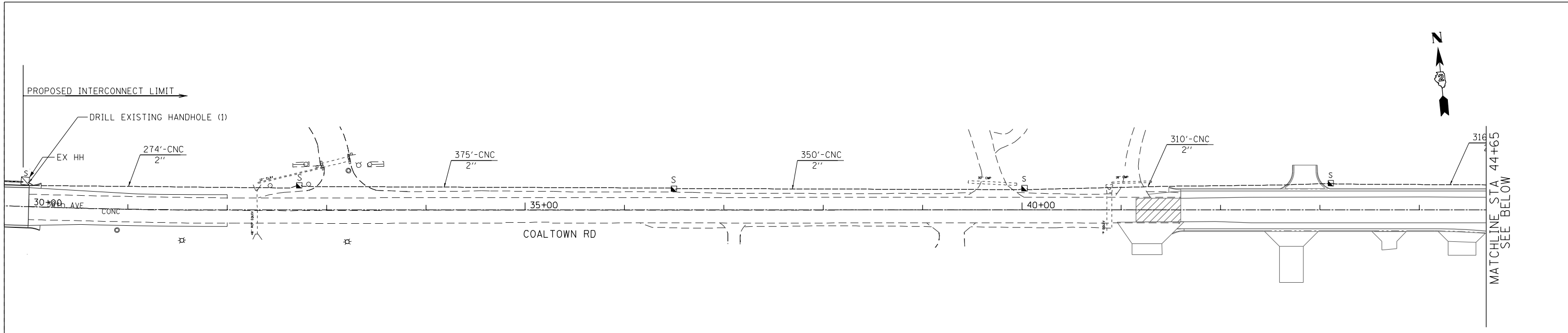
**FAP 595 (JOHN DEERE ROAD)
SIGNING DETAILS**

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
595	(142-1, 142)R	ROCK ISLAND	1353	922
CONTRACT NO. 64B83				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

SGN-03

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 PLOT SCALE = 1/8"=1'-0"
 USER NAME = Millennium Professional Services



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DRAWN - TVN	REVISED -
CHECKED - MG	REVISED -
DATE - 1/14/2015	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

FAP 595 (JOHN DEERE ROAD)
INTERCONNECTION PLAN

SCALE: 1"=50' SHEET NO. 1 OF 4 SHEETS STA. TO STA.

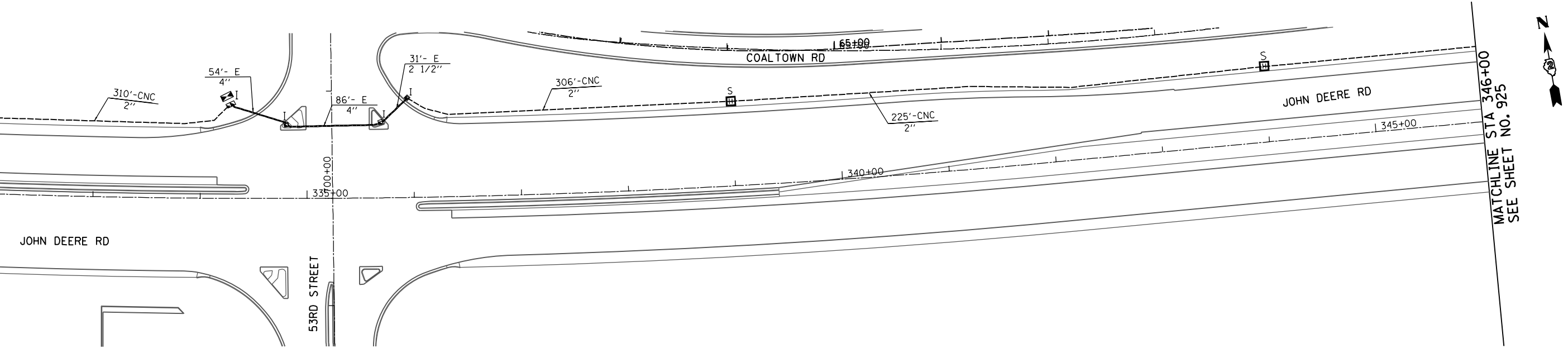
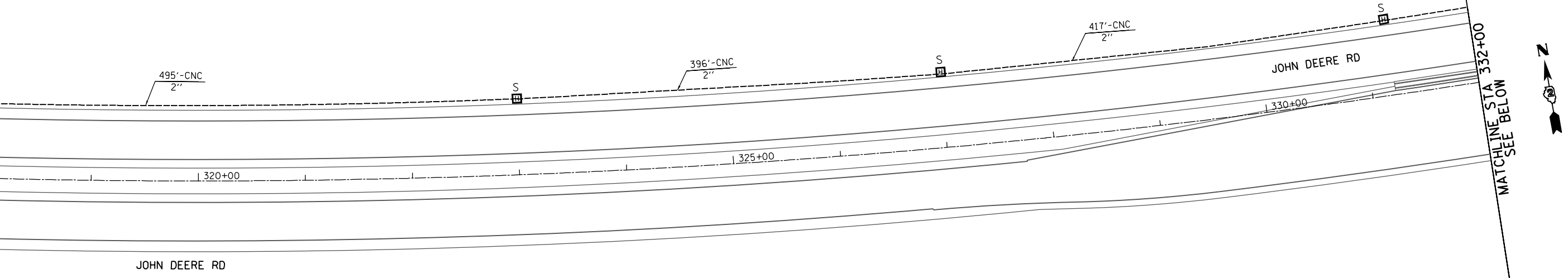
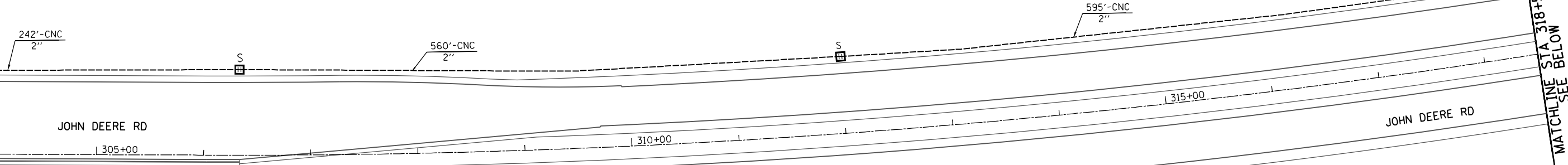
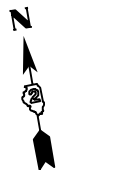
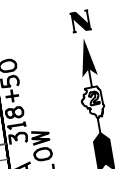
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
595	(142-1, 142R)	ROCK ISLAND	1353	923
CONTRACT NO. 64B83				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

INT-01

SEE SHEET NO. 923
MATCHLINE STA 304+00

SEE ABOVE RIGHT
MATCHLINE STA 318+50

SEE ABOVE RIGHT
MATCHLINE STA 332+00



LEGEND
S = SYSTEM
I = INTERSECTION

FILE NAME = P:\2011\ME11008_PTB155-26_IL5_JDR_Corbo\C2-JDR\Sheets\0264883-sht-INT02.dgn
 PLOT SCALE = 1/8" = 1'-0"
 USER NAME = Millennium Professional Services



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DATE - 12/18/2014	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

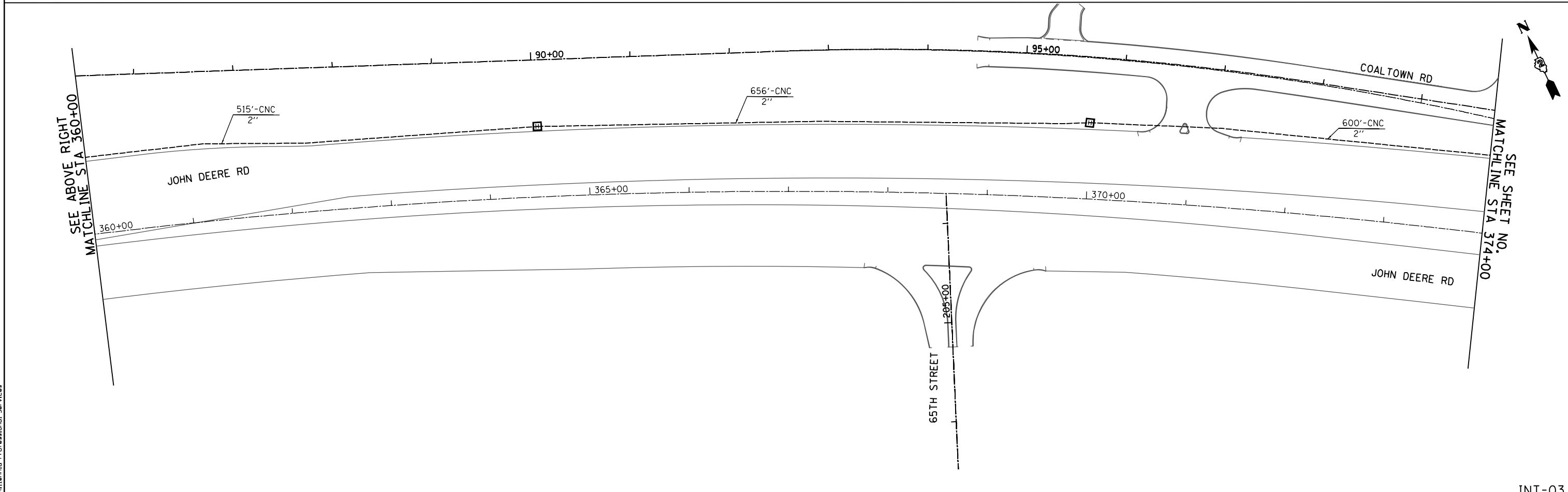
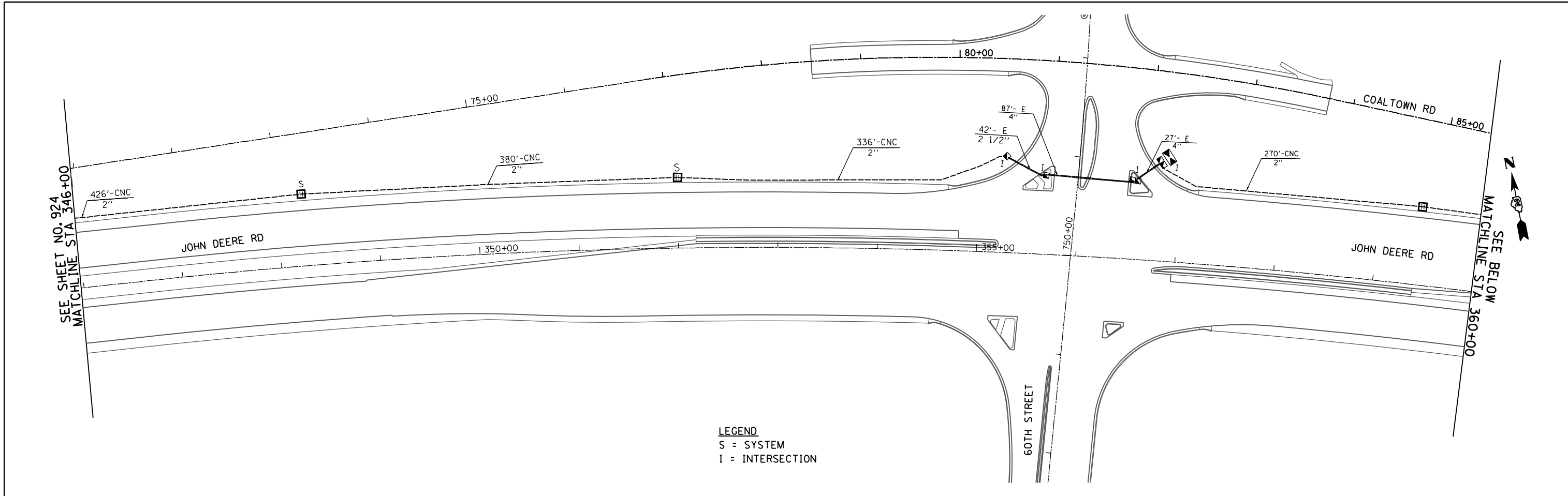
FAP 595 (JOHN DEERE ROAD)
INTERCONNECTION PLAN

SCALE: 1"=50' SHEET NO. 2 OF 4 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
595	(142-1, 142)R	ROCK ISLAND	1353	924
CONTRACT NO. 64B83				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

INT-02

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 PLOT SCALE = 1/8"=1'-0"
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CHECKED - MG	REVISED -
DATE - 12/18/2014	REVISED -

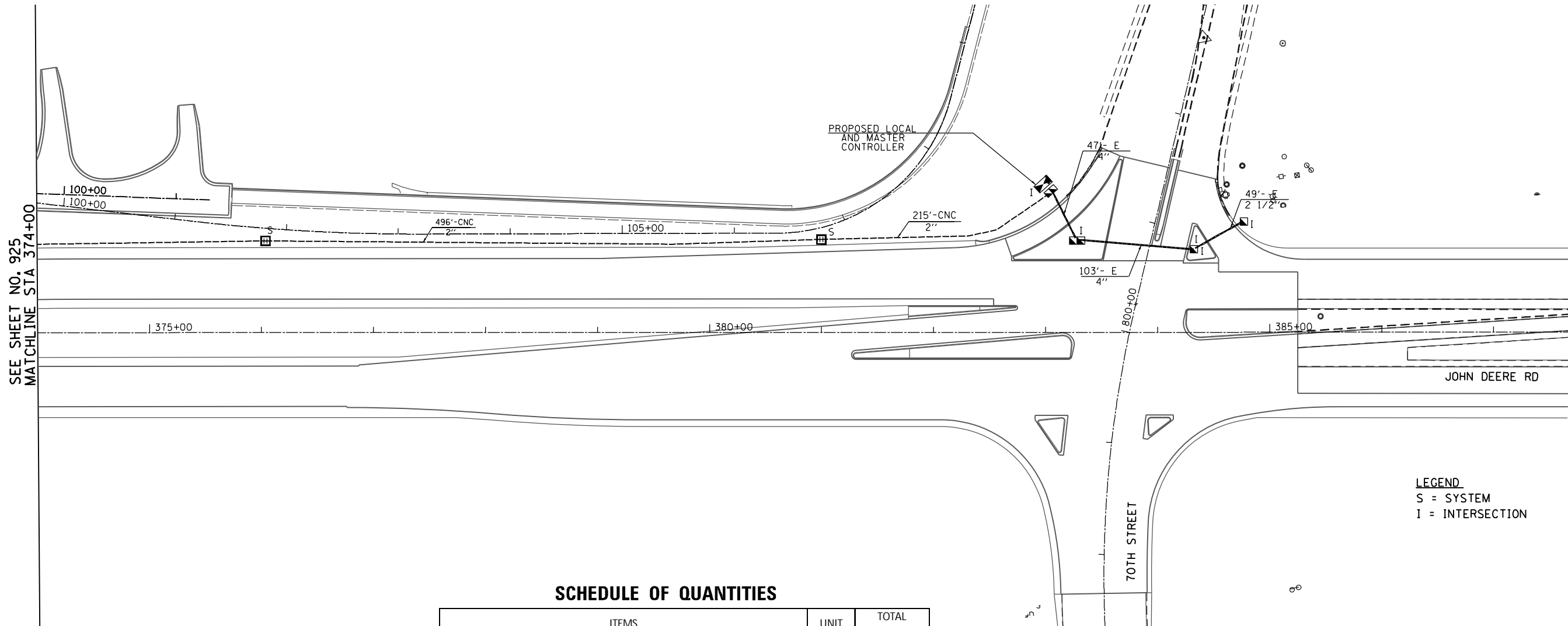
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**FAP 595 (JOHN DEERE ROAD)
INTERCONNECTION PLAN**

SCALE: 1"=50' SHEET NO. 3 OF 4 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
595	(142-1, 142)R	ROCK ISLAND	1353	925
CONTRACT NO. 64B83				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

INT-03



SEE SHEET NO. 925
MATCHLINE STA 374+00

LEGEND
S = SYSTEM
I = INTERSECTION

SCHEDULE OF QUANTITIES

ITEMS	UNIT	TOTAL QUANTITY
UNDERGROUND CONDUIT, COILABLE NONMETALLIC CONDUIT, 2" DIA.	FOOT	10041
HANDHOLE, COMPOSITE CONCRETE	EACH	6
HEAVY-DUTY HANDHOLE	EACH	15
FIBER OPTIC CABLE IN CONDUIT, NO. 62.5/125. MM12F SM12F	FOOT	8494
ELECTRIC CABLE IN CONDUIT, TRACER, NO. 14 1C	FOOT	8494
ELECTRIC CABLE IN CONDUIT, COMMUNICATION NO. 18 3 PAIR	FOOT	3015
DRILL EXISTING HANDHOLE	EACH	1
OPTIMIZE TRAFFIC SIGNAL SYSTEM	EACH	1
ATMS SOFTWARE (CORE MODULE)	L SUM	1

FILE NAME = P:\2011\ME11008_PTB155-26_IL5_JDR_Corba\C2-JDR\Sheets\0264883-sht-INTC04.dgn
 PLOT SCALE = 1/8"=1'-0"
 USER NAME = Millennium Professional Services



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CHECKED - MG	REVISED -
DATE - 12/18/2014	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**FAP 595 (JOHN DEERE ROAD)
INTERCONNECTION PLAN**

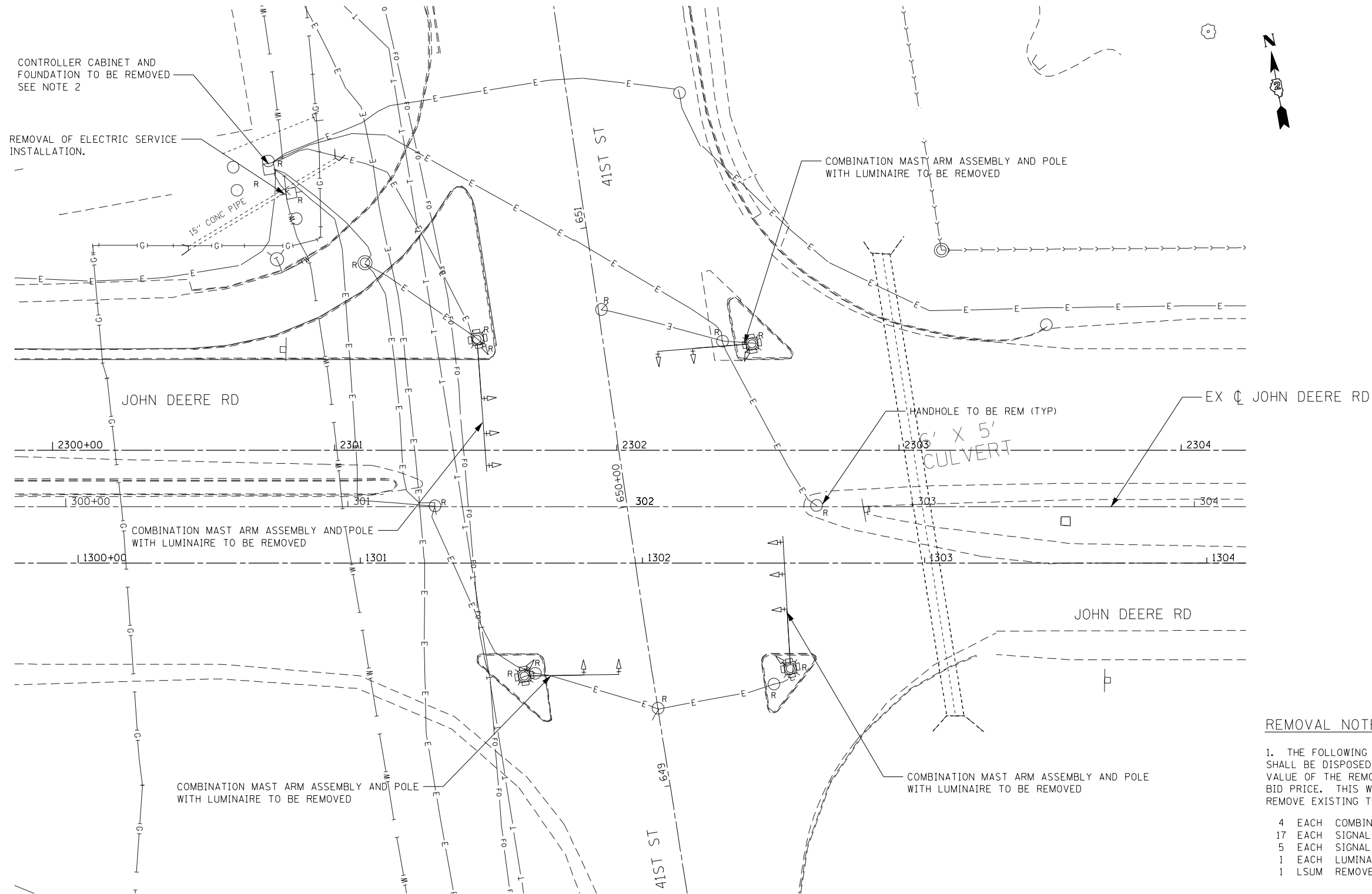
SCALE: 1"=50' SHEET NO. 4 OF 4 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
595	(142-1, 142)R	ROCK ISLAND	1353	926
CONTRACT NO. 64B83				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

INT-04

P:\2011\ME11008_PTB155-26_IL5_JDR_Corba\C2-JDR\Sheets\0264883-sht-INTC04.dgn

TRAFFIC SIGNAL REMOVAL PLAN



REMOVAL NOTES

1. THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR AND SHALL BE DISPOSED OF OUTSIDE OF THE RIGHT-OF-WAY. THE SALVAGE VALUE OF THE REMOVED EQUIPMENT SHALL BE REFLECTED IN THE CONTRACT BID PRICE. THIS WORK SHALL BE PAID FOR AS THE UNIT BID PRICE FOR REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT.
 - 4 EACH COMBINATION MAST ARM ASSEMBLY AND POLE
 - 17 EACH SIGNAL HEAD, 1-FACE, 3-SECTION
 - 5 EACH SIGNAL HEAD, 1-FACE, 4-SECTION
 - 1 EACH LUMINAIRE
 - 1 LSUM REMOVE ELECTRIC CABLE FROM CONDUIT

2. THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR AND DELIVERED AS LISTED BELOW. THIS WORK SHALL BE INCLUDED IN THE COST OF REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT.
 - 1 EACH CONTROLLER AND CABINET, COMPLETE (CITY OF MOLINE)



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 PLOT SCALE = 40.0000
 USER NAME = Millennium Professional Services



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DRAWN - TVN	REVISED -
CHECKED - MG	REVISED -
DATE - 12/18/2014	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

FAP 595 (JOHN DEERE ROAD)
JOHN DEERE ROAD AT 41ST STREET
TRAFFIC SIGNAL REMOVAL PLAN

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
595	(142-1, 142)R	ROCK ISLAND	1353	927
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT			CONTRACT NO. 64B83	

TS1-1

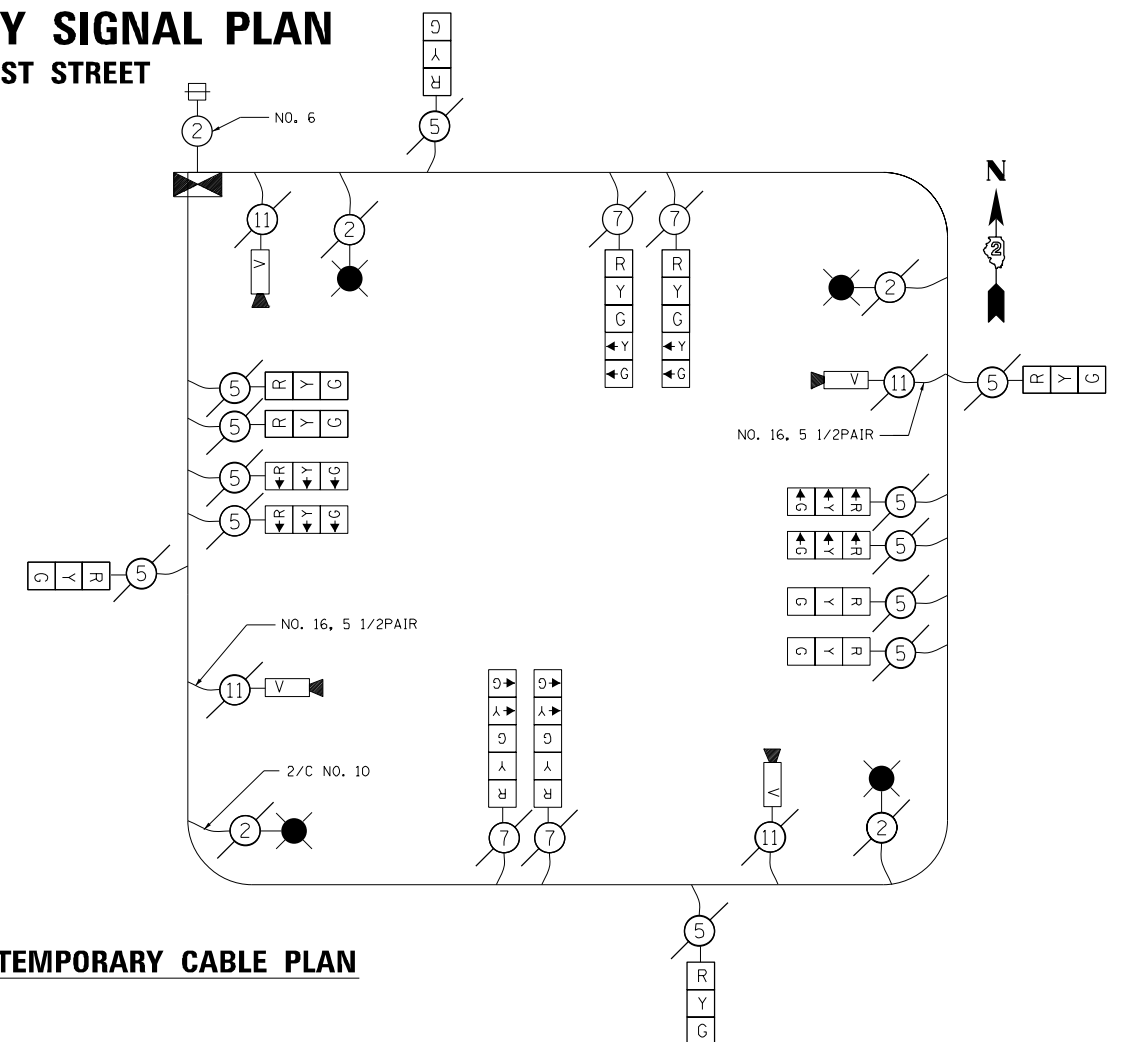
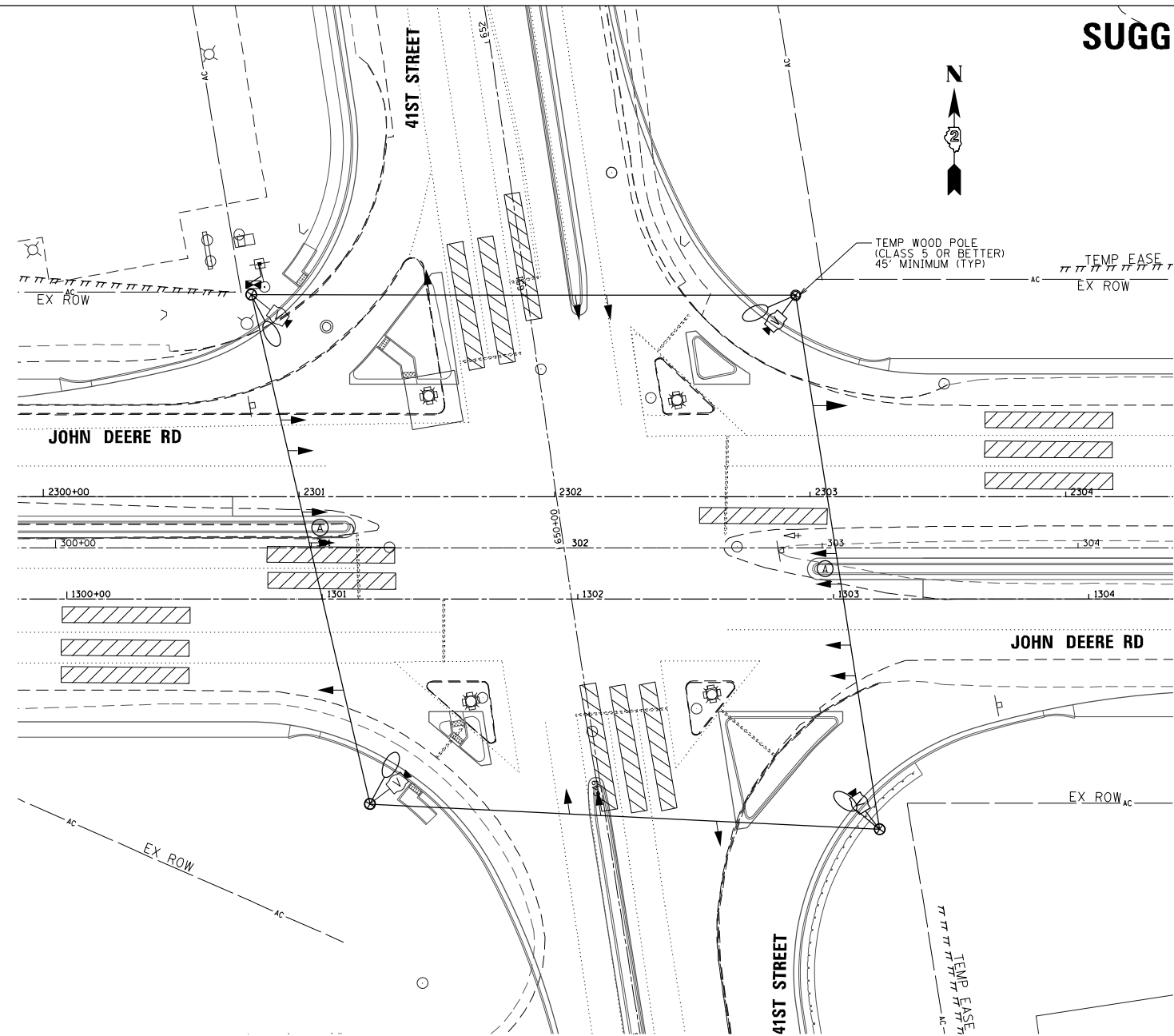
SUGGESTED TEMPORARY SIGNAL PLAN

JOHN DEERE ROAD AT 41ST STREET

SIGN-A

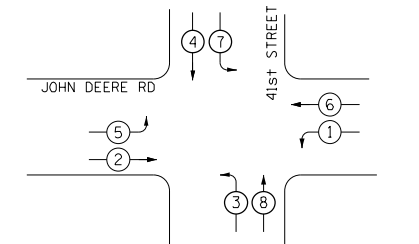
LEFT ON GREEN
ARROW
ONLY

R10-5
24" x 30"
SIGN PANEL TYPE 1
(4 REQUIRED)



TEMPORARY CABLE PLAN

TEMPORARY CONTROLLER SEQUENCE



PHASE DESIGNATION DIAGRAM

NOTES

1. ONLY AN APPROVED IDOT ELECTRICAL SUBCONTRACTOR WILL BE PERMITTED TO INSTALL AND ADJUST VEHICLE DETECTION SYSTEM AS REQUIRED BY STAGE/PHASE CHANGES.
2. STAGING OF TEMPORARY SIGNAL INSTALLATION SHALL BE APPROVED BY THE RESIDENT ENGINEER.
3. DETECTION ZONES SHALL BE DETERMINED IN THE FIELD BY A QUALIFIED SIGNAL TECHNICIAN.
4. RELOCATE EXISTING MAST ARM MOUNTED STREET NAME SIGNS TO THE TEMPORARY TRAFFIC SIGNAL SUPPORT. THIS WORK SHALL BE INCLUDED IN THE COST OF TEMPORARY TRAFFIC SIGNAL INSTALLATION.

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 PLOT SCALE = 60/2000
 USER NAME = Millennium Professional Services



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CHECKED - MG	REVISED -
DATE - 1/14/2015	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

FAP 595 (JOHN DEERE ROAD)
 JOHN DEERE ROAD AT 41ST STREET
 TEMPORARY SIGNALS PLAN

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

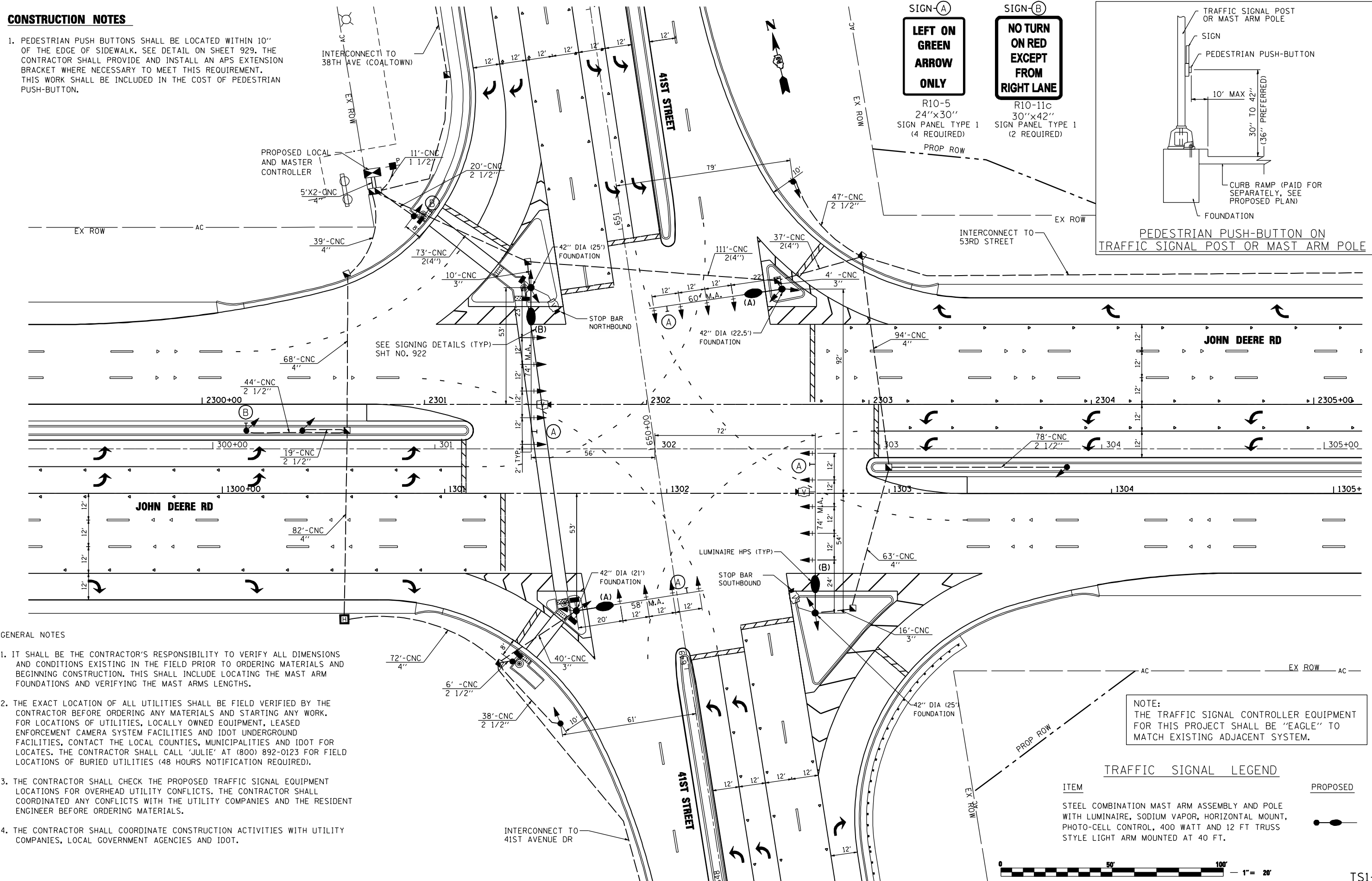
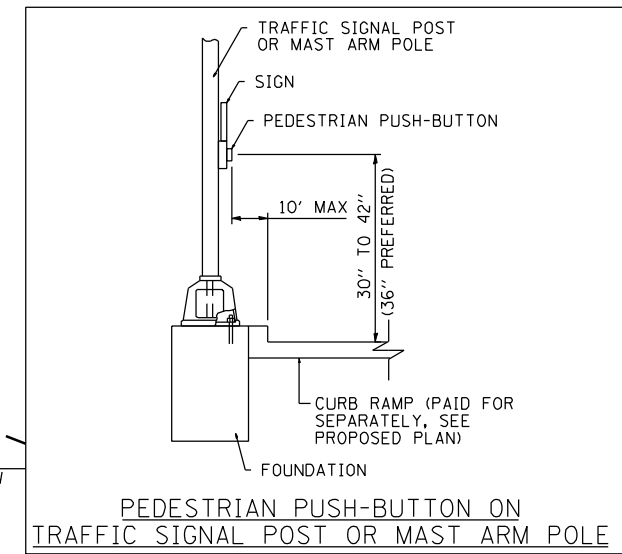
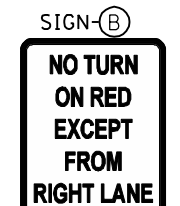
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595	(142-1, 142)R	ROCK ISLAND	1353	928
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT			CONTRACT NO. 64B83	

TS1-2

P:\2011\ME11008.PT155-26.IL5.JDR.Corbac\2-JDR\Sheets\0264883-sht-TS12-JDR-41ST-Temp.dgn

CONSTRUCTION NOTES

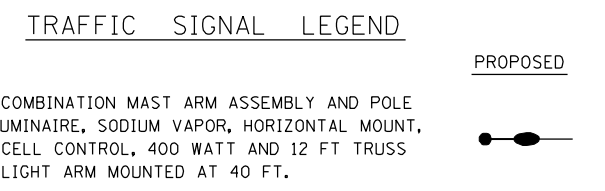
1. PEDESTRIAN PUSH BUTTONS SHALL BE LOCATED WITHIN 10' OF THE EDGE OF SIDEWALK. SEE DETAIL ON SHEET 929. THE CONTRACTOR SHALL PROVIDE AND INSTALL AN APS EXTENSION BRACKET WHERE NECESSARY TO MEET THIS REQUIREMENT. THIS WORK SHALL BE INCLUDED IN THE COST OF PEDESTRIAN PUSH-BUTTON.



GENERAL NOTES

- IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL DIMENSIONS AND CONDITIONS EXISTING IN THE FIELD PRIOR TO ORDERING MATERIALS AND BEGINNING CONSTRUCTION. THIS SHALL INCLUDE LOCATING THE MAST ARM FOUNDATIONS AND VERIFYING THE MAST ARMS LENGTHS.
- THE EXACT LOCATION OF ALL UTILITIES SHALL BE FIELD VERIFIED BY THE CONTRACTOR BEFORE ORDERING ANY MATERIALS AND STARTING ANY WORK. FOR LOCATIONS OF UTILITIES, LOCALLY OWNED EQUIPMENT, LEASED ENFORCEMENT CAMERA SYSTEM FACILITIES AND IDOT UNDERGROUND FACILITIES, CONTACT THE LOCAL COUNTIES, MUNICIPALITIES AND IDOT FOR LOCATES. THE CONTRACTOR SHALL CALL 'JULIE' AT (800) 892-0123 FOR FIELD LOCATIONS OF BURIED UTILITIES (48 HOURS NOTIFICATION REQUIRED).
- THE CONTRACTOR SHALL CHECK THE PROPOSED TRAFFIC SIGNAL EQUIPMENT LOCATIONS FOR OVERHEAD UTILITY CONFLICTS. THE CONTRACTOR SHALL COORDINATED ANY CONFLICTS WITH THE UTILITY COMPANIES AND THE RESIDENT ENGINEER BEFORE ORDERING MATERIALS.
- THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH UTILITY COMPANIES, LOCAL GOVERNMENT AGENCIES AND IDOT.

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



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 USER : JDR
 PLOT DATE : 7/13/2015 10:58:56 AM
 PLOT BY : JDR



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DRAWN -	#DBS2	REVISED -	
CHECKED -	#BKB1	REVISED -	
DATE -	7/13/2015	REVISED -	

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**FAP 595 (JOHN DEERE ROAD)
 JOHN DEERE ROAD AT 41ST STREET
 TRAFFIC SIGNAL INSTALLATION PLAN**

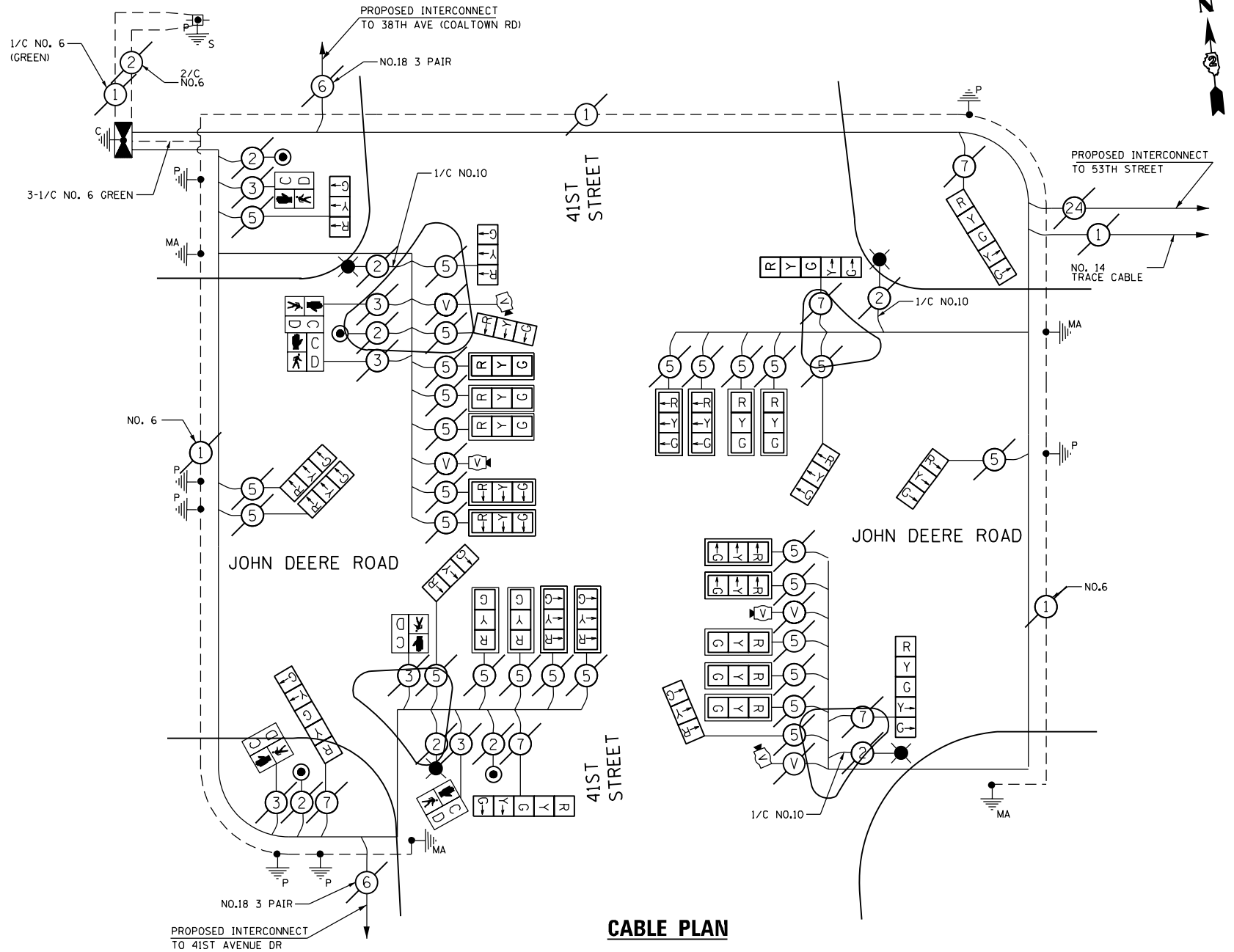
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
595	(142-1, 142)R	ROCK ISLAND	1353	929
CONTRACT NO. 64883				

FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT
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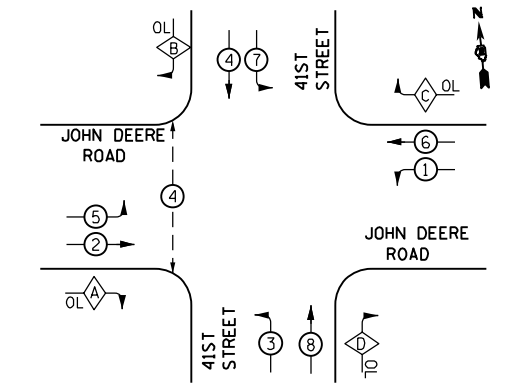
TABULATION OF QUANTITIES – JOHN DEERE ROAD AT 41ST STREET

ITEM	UNIT	QUANTITY
ROCK EXCAVATION FOR STRUCTURES		10.9
SIGN PANEL - TYPE 1		38
SIGN PANEL - TYPE 2		58
SERVICE INSTALLATION, TYPE A		1
UNDERGROUND CONDUIT, COILABLE NONMETALLIC CONDUIT, 1 1/2" DIA.		11
UNDERGROUND CONDUIT, COILABLE NONMETALLIC CONDUIT, 2 1/2" DIA.		284
UNDERGROUND CONDUIT, COILABLE NONMETALLIC CONDUIT, 3" DIA.		70
UNDERGROUND CONDUIT, COILABLE NONMETALLIC CONDUIT, 4" DIA.		870
HEAVY-DUTY HANDHOLE		1
HANDHOLE, COMPOSITE CONCRETE		8
DOUBLE HANDHOLE, COMPOSITE CONCRETE		1
FULL-ACTUATED CONTROLLER AND TYPE IV CABINET		1
TRANSCEIVER (SPECIAL)		1
ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 10		1392
LUMINAIRE, SODIUM VAPOR, HORIZONTAL MOUNT, PHOTO-CELL CONTROL, 400 WATT		4
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C		859
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C		1384
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C		8549
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C		1768
ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C		88
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C		914
TRAFFIC SIGNAL POST, GALVANIZED STEEL 10 FT.		1
TRAFFIC SIGNAL POST, GALVANIZED STEEL 14 FT.		3
TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.		3
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 58 FT.		1
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 60 FT.		1
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 74 FT.		2
CONCRETE FOUNDATION, TYPE A		28
CONCRETE FOUNDATION, TYPE D		4
CONCRETE FOUNDATION, TYPE E 42-INCH DIAMETER		93.5
SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED		4
SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED		18
SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED		2
SIGNAL HEAD, POLYCARBONATE, LED, 2-FACE, 3-SECTION, BRACKET MOUNTED		1
SIGNAL HEAD, POLYCARBONATE, LED, 2-FACE, 1-3-SECTION, 1-5-SECTION, BRACKET MOUNTED		3
PEDESTRIAN SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, BRACKET MOUNTED WITH COUNT DOWN TIMER		2
PEDESTRIAN SIGNAL HEAD, POLYCARBONATE, LED, 2-FACE, BRACKET MOUNTED WITH COUNT DOWN TIMER		2
TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC		18
PEDESTRIAN PUSH-BUTTON		4
TEMPORARY TRAFFIC SIGNAL INSTALLATION		1
DISPOSITION OF SALVAGED TRAFFIC SIGNAL EQUIPMENT		0.2
VIDEO VEHICLE DETECTION SYSTEM		1



CABLE PLAN

PROPOSED CONTROLLER SEQUENCE



PHASE DESIGNATION DIAGRAM

OVERLAP LETTER	PERMISSIVE PHASE	PROTECTED PHASE
A =	2 +	3
B =	4 +	5
C =	6 +	7
D =	8 +	1

FILE NAME = P:\2011\ME11008.PT8155-26.JL5.JDR.C\orba\2-JDR\Sheets\0264883-sh1-TS14-JDR_41ST.dgn
 PLOT SCALE = 4020000
 USER NAME = Millennium Professional Services



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DRAWN - TVN	REVISED -
CHECKED - MG	REVISED -
DATE - 12/18/2014	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

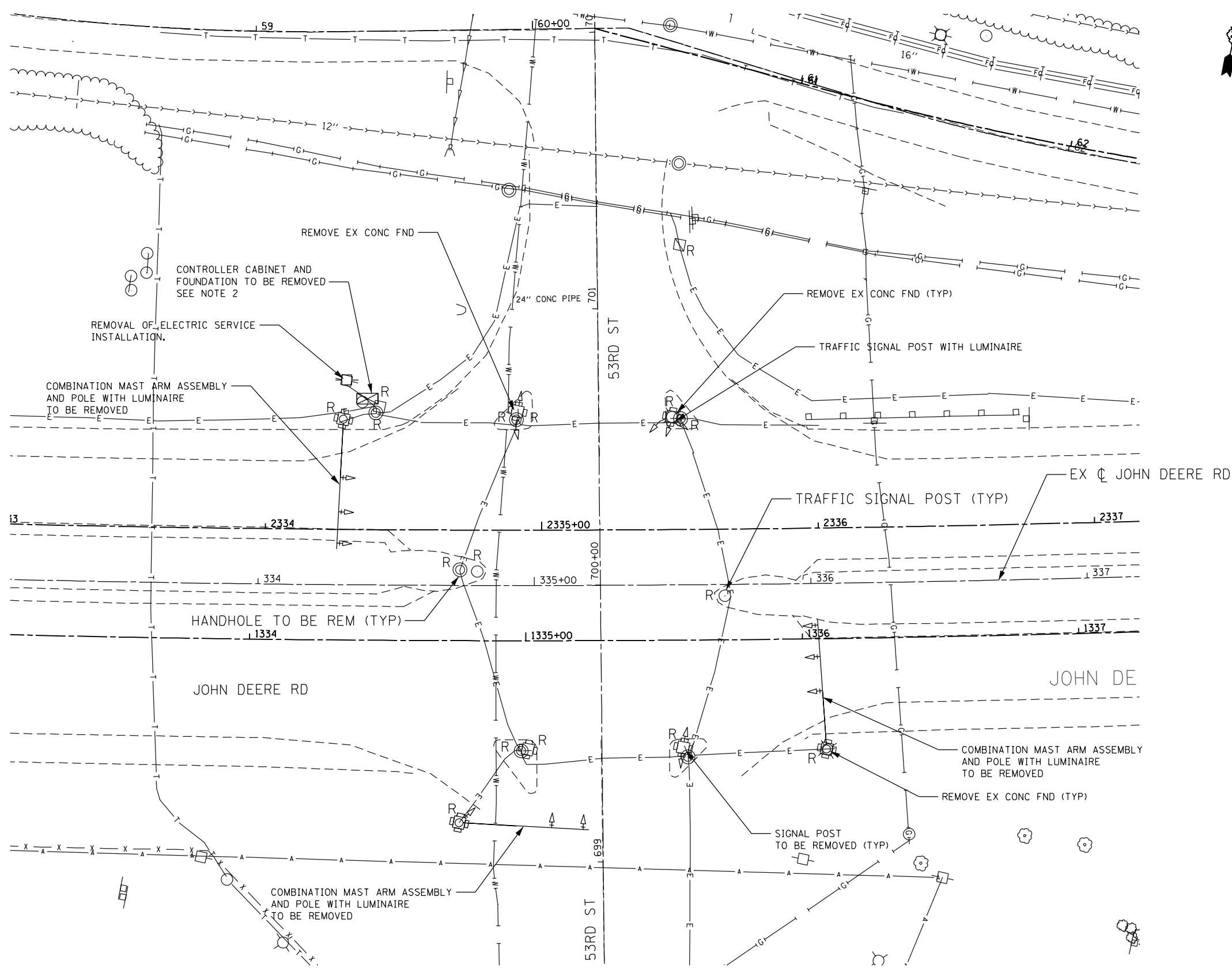
JOHN DEERE ROAD AT 41ST STREET
CABLE PLAN, PHASE DESIGNATION DIAGRAM,
AND SCHEDULE OF QUANTITIES

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
595	(142-1, 142)R	ROCK ISLAND	1353	930
CONTRACT NO. 64B83				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

TS1-4

TRAFFIC SIGNAL REMOVAL PLAN



REMOVAL NOTES

- THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR AND SHALL BE DISPOSED OF OUTSIDE OF THE RIGHT-OF-WAY. THE SALVAGE VALUE OF THE REMOVED EQUIPMENT SHALL BE REFLECTED IN THE CONTRACT BID PRICE. THIS WORK SHALL BE PAID FOR AS THE UNIT BID PRICE FOR REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT.
 - 3 EACH COMBINATION MAST ARM ASSEMBLY AND POLE
 - 3 EACH SIGNAL POST
 - 16 EACH SIGNAL HEAD, 1-FACE, 3-SECTION
 - 4 EACH LUMINAIRE
 - 1 LSUM REMOVE ELECTRIC CABLE FROM CONDUIT
- THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR AND DELIVERED AS LISTED BELOW. THIS WORK SHALL BE INCLUDED IN THE COST OF REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT.
 - 1 EACH CONTROLLER (IDOT)
 - 1 EACH CABINET (CITY OF MOLINE)



TS2-1

FILE NAME = P:\2011\NE11008.PT8155-26.IL5.JDR.Corba\C2-JDR\Sheets\0264883-shr-TS21-rem-JDR.53.dgn
 PLOT SCALE = 40/2000
 USER NAME = Millennium Professional Services



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DRAWN - TVN	REVISED -
CHECKED - MG	REVISED -
DATE - 12/18/2014	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

FAP 595 (JOHN DEERE ROAD)
JOHN DEERE ROAD AT 53RD STREET
TRAFFIC SIGNAL REMOVAL PLAN

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

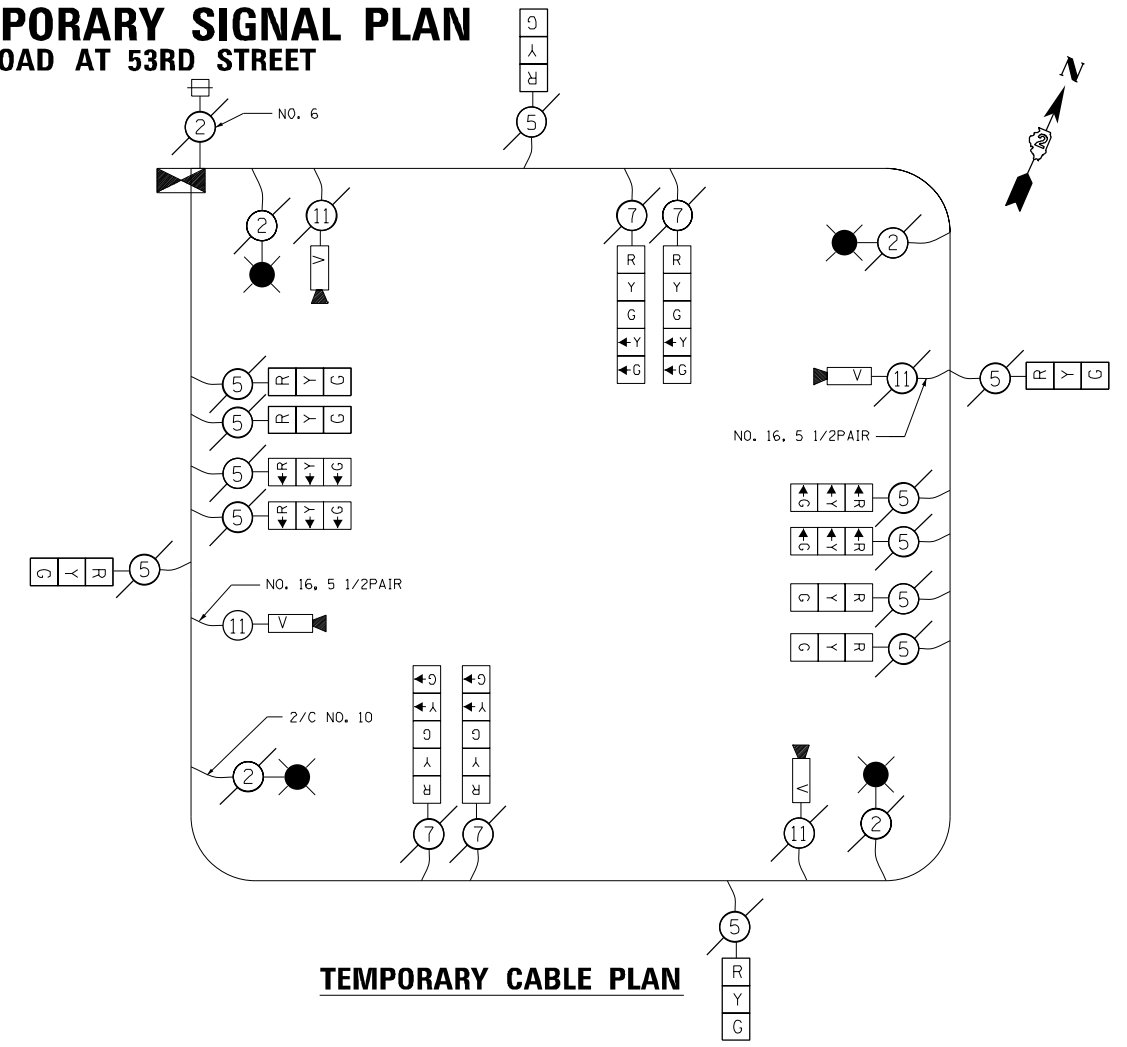
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
595	(142-1, 142)R	ROCK ISLAND	1353	931
FED. ROAD DIST. NO. 1 (ILLINOIS) FED. AID PROJECT				CONTRACT NO. 64B83

SUGGESTED TEMPORARY SIGNAL PLAN

JOHN DEERE ROAD AT 53RD STREET

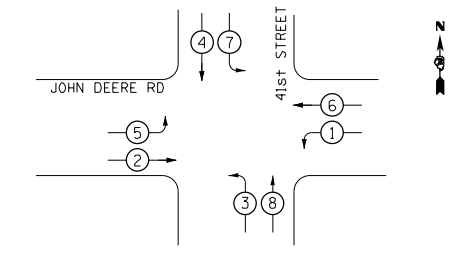
SIGN-A
LEFT ON GREEN
ARROW
ONLY

R10-5
24" x 30"
SIGN PANEL TYPE 1
(4 REQUIRED)



TEMPORARY CABLE PLAN

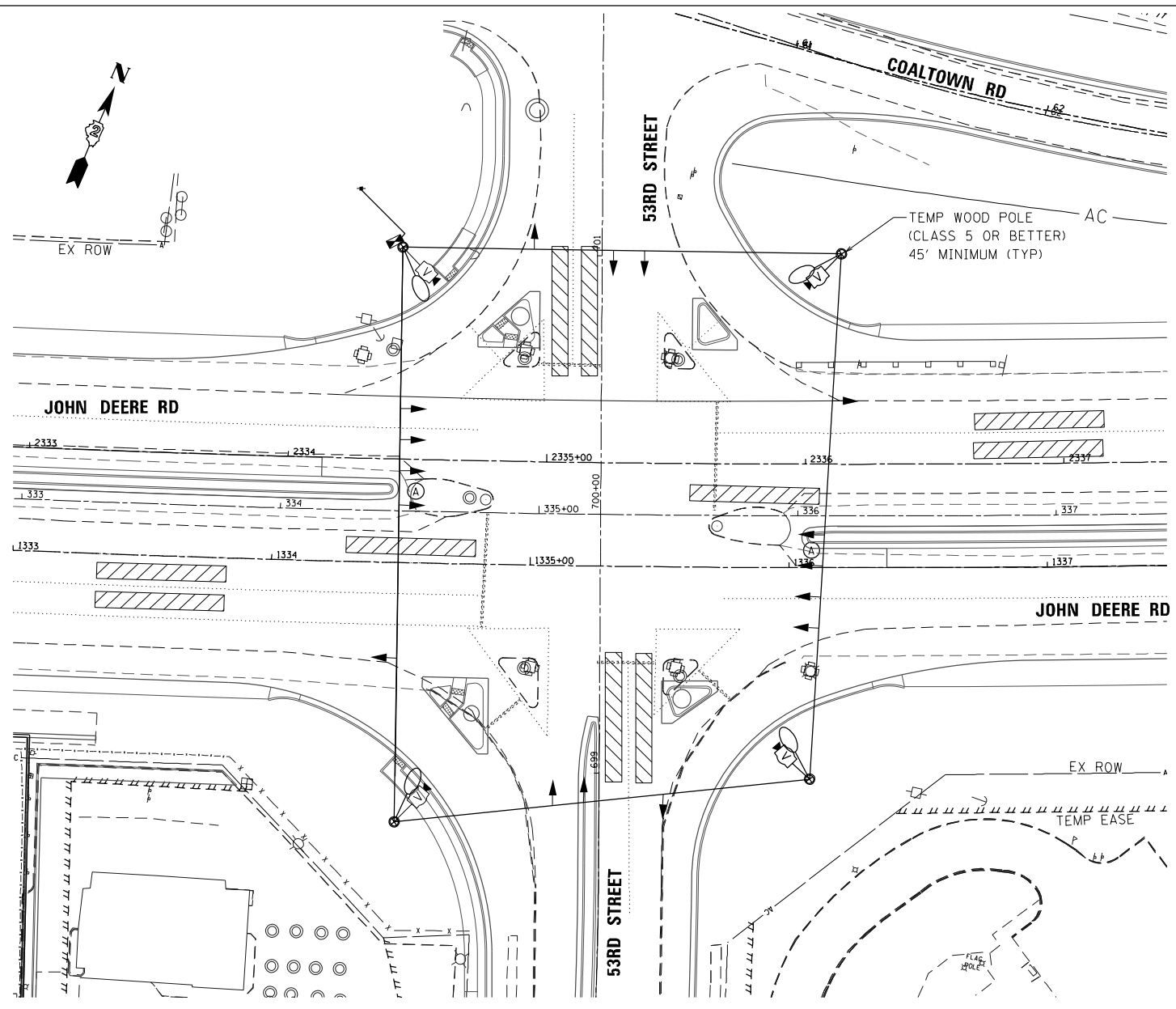
TEMPORARY CONTROLLER SEQUENCE



PHASE DESIGNATION DIAGRAM

NOTES

1. ONLY AN APPROVED IDOT ELECTRICAL SUBCONTRACTOR WILL BE PERMITTED TO INSTALL AND ADJUST VEHICLE DETECTION SYSTEM AS REQUIRED BY STAGE/PHASE CHANGES.
2. STAGING OF TEMPORARY SIGNAL INSTALLATION SHALL BE APPROVED BY THE RESIDENT ENGINEER.
3. DETECTION ZONES SHALL BE DETERMINED IN THE FIELD BY A QUALIFIED SIGNAL TECHNICIAN.
4. RELOCATE EXISTING MAST ARM MOUNTED STREET NAME SIGNS TO THE TEMPORARY TRAFFIC SIGNAL SUPPORT. THIS WORK SHALL BE INCLUDED IN THE COST OF TEMPORARY TRAFFIC SIGNAL INSTALLATION.



FILE NAME = P:\2011\ME11008_PTB155-26_IL5_JDR_Ciorba\C2-JDR\Sheets\0264883-shr-TS22_JDR_53rd-Temp.dgn
 PLOT SCALE = 60/2000
 USER NAME = Millennium Professional Services



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CHECKED - MG	REVISED -
DATE - 1/14/2015	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

FAP 595 (JOHN DEERE ROAD)
JOHN DEERE ROAD AT 53RD STREET
TEMPORARY SIGNALS PLAN

SCALE: 1"=30' SHEET NO. OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
595	(142-1, 142)R	ROCK ISLAND	1353	932
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT			CONTRACT NO. 64B83	

TS2-2

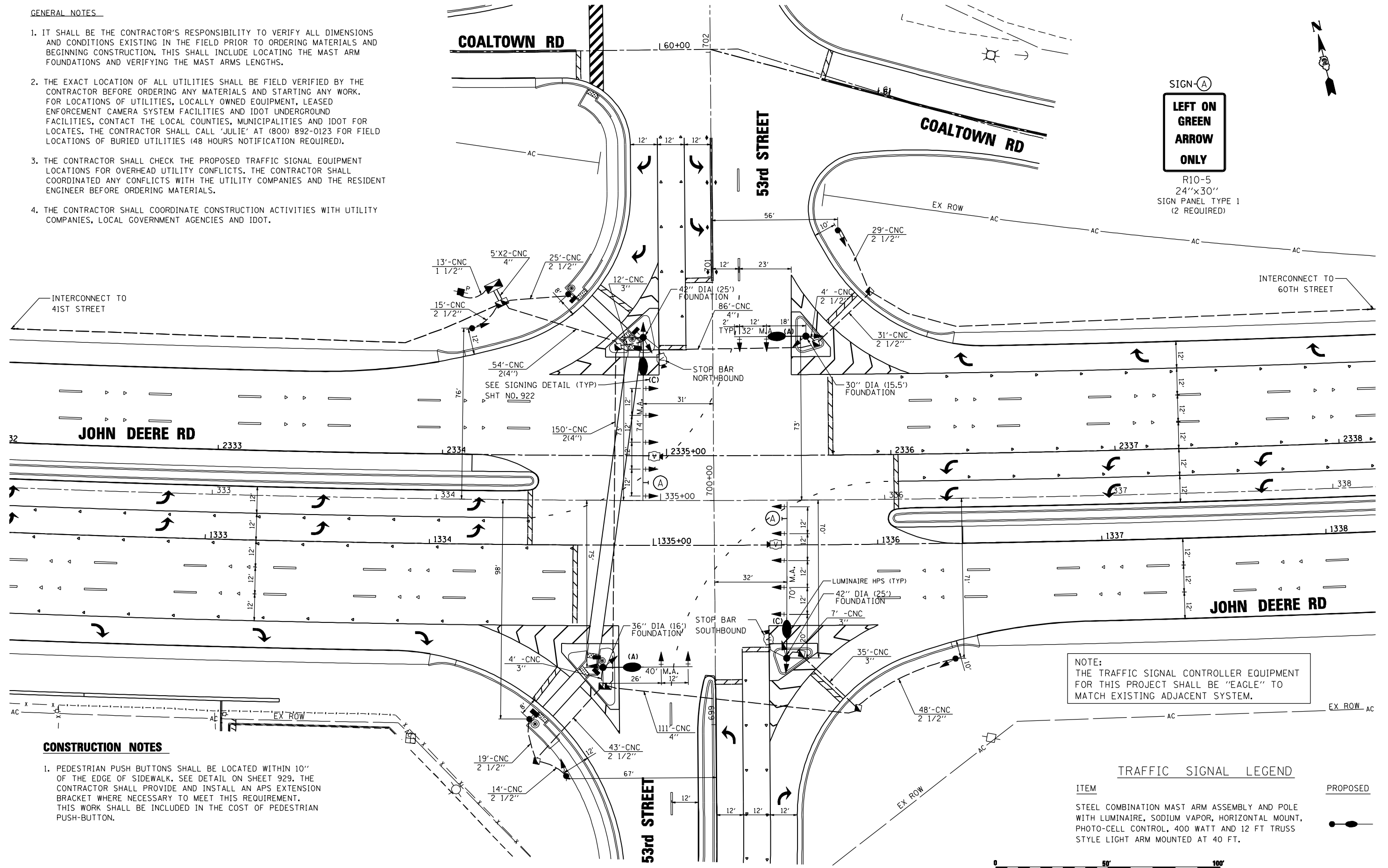
GENERAL NOTES

- IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL DIMENSIONS AND CONDITIONS EXISTING IN THE FIELD PRIOR TO ORDERING MATERIALS AND BEGINNING CONSTRUCTION. THIS SHALL INCLUDE LOCATING THE MAST ARM FOUNDATIONS AND VERIFYING THE MAST ARMS LENGTHS.
- THE EXACT LOCATION OF ALL UTILITIES SHALL BE FIELD VERIFIED BY THE CONTRACTOR BEFORE ORDERING ANY MATERIALS AND STARTING ANY WORK. FOR LOCATIONS OF UTILITIES, LOCALLY OWNED EQUIPMENT, LEASED ENFORCEMENT CAMERA SYSTEM FACILITIES AND IDOT UNDERGROUND FACILITIES, CONTACT THE LOCAL COUNTIES, MUNICIPALITIES AND IDOT FOR LOCATES. THE CONTRACTOR SHALL CALL 'JULIE' AT (800) 892-0123 FOR FIELD LOCATIONS OF BURIED UTILITIES (48 HOURS NOTIFICATION REQUIRED).
- THE CONTRACTOR SHALL CHECK THE PROPOSED TRAFFIC SIGNAL EQUIPMENT LOCATIONS FOR OVERHEAD UTILITY CONFLICTS. THE CONTRACTOR SHALL COORDINATE ANY CONFLICTS WITH THE UTILITY COMPANIES AND THE RESIDENT ENGINEER BEFORE ORDERING MATERIALS.
- THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH UTILITY COMPANIES, LOCAL GOVERNMENT AGENCIES AND IDOT.

SIGN-A

**LEFT ON GREEN
ARROW
ONLY**

R10-5
24"x30"
SIGN PANEL TYPE 1
(2 REQUIRED)



INTERCONNECT TO 41ST STREET

INTERCONNECT TO 60TH STREET

JOHN DEERE RD

JOHN DEERE RD

COALTOWN RD

53rd STREET

53rd STREET

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

CONSTRUCTION NOTES

- PEDESTRIAN PUSH BUTTONS SHALL BE LOCATED WITHIN 10" OF THE EDGE OF SIDEWALK. SEE DETAIL ON SHEET 929. THE CONTRACTOR SHALL PROVIDE AND INSTALL AN APS EXTENSION BRACKET WHERE NECESSARY TO MEET THIS REQUIREMENT. THIS WORK SHALL BE INCLUDED IN THE COST OF PEDESTRIAN PUSH-BUTTON.

TRAFFIC SIGNAL LEGEND

ITEM	PROPOSED
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH LUMINAIRE, SODIUM VAPOR, HORIZONTAL MOUNT, PHOTO-CELL CONTROL, 400 WATT AND 12 FT TRUSS STYLE LIGHT ARM MOUNTED AT 40 FT.	



N:\PROJ\0003393\00\CONTRACT_2\Design\Signals\AD264883-sht-TS23-JDR_53-d.dgn
 USER: MPE
 DATE: 7/13/2015



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DATE -	7/13/2015	REVISED -	

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**FAP 595 (JOHN DEERE ROAD)
JOHN DEERE ROAD AT 53RD STREET
TRAFFIC SIGNAL INSTALLATION PLAN**

SCALE: SCALE20 SHEET NO. OF SHEETS STA. TO STA.

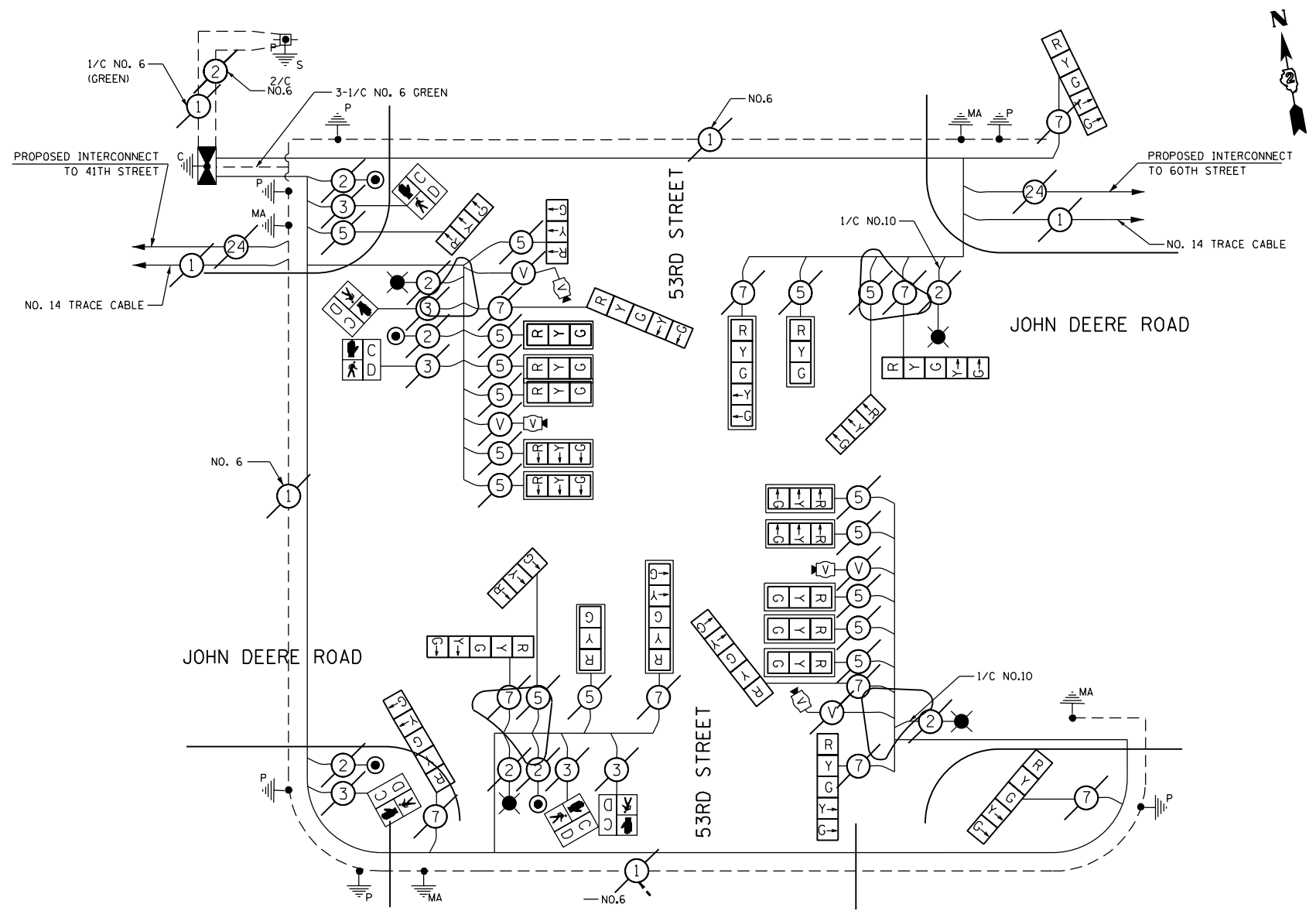
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
595	(142-1, 142)R	ROCK ISLAND	1353	933
CONTRACT NO. 64883				

TS2-3

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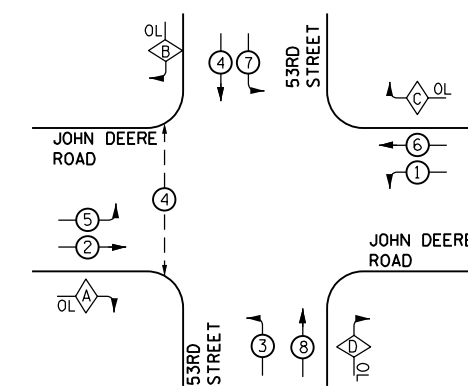
TABULATION OF QUANTITIES – JOHN DEERE ROAD AT 53RD STREET

ITEM	UNIT	QUANTITY
ROCK EXCAVATION FOR STRUCTURES	CU YD	5.3
SIGN PANEL - TYPE 1	SQ FT	10
SIGN PANEL - TYPE 2	SQ FT	58
SERVICE INSTALLATION, TYPE A	EACH	1
UNDERGROUND CONDUIT, COILABLE NONMETALLIC CONDUIT, 1 1/2" DIA.	FOOT	13
UNDERGROUND CONDUIT, COILABLE NONMETALLIC CONDUIT, 2 1/2" DIA.	FOOT	222
UNDERGROUND CONDUIT, COILABLE NONMETALLIC CONDUIT, 3" DIA.	FOOT	58
UNDERGROUND CONDUIT, COILABLE NONMETALLIC CONDUIT, 4" DIA.	FOOT	615
HANDHOLE, COMPOSITE CONCRETE	EACH	6
DOUBLE HANDHOLE, COMPOSITE CONCRETE	EACH	2
FULL-ACTUATED CONTROLLER AND TYPE IV CABINET	EACH	1
ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 10	FOOT	1196
LUMINAIRE, SODIUM VAPOR, HORIZONTAL MOUNT, PHOTO-CELL CONTROL, 400 WATT	EACH	4
TRANSCEIVER - FIBER OPTIC	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	745
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	1154
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	4383
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	2996
ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C	FOOT	92
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	678
TRAFFIC SIGNAL POST, GALVANIZED STEEL 10 FT.	EACH	2
TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EACH	4
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 32 FT.	EACH	1
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 40 FT.	EACH	1
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 70 FT.	EACH	1
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 74 FT.	EACH	1
CONCRETE FOUNDATION, TYPE A	FOOT	24
CONCRETE FOUNDATION, TYPE D	FOOT	4
CONCRETE FOUNDATION, TYPE E 30-INCH DIAMETER	FOOT	15.5
CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	16
CONCRETE FOUNDATION, TYPE E 42-INCH DIAMETER	FOOT	50
SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	1
SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED	EACH	12
SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	3
SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED	EACH	2
SIGNAL HEAD, POLYCARBONATE, LED, 2-FACE, 1-3 SECTION, 1-5 SECTION, BRACKET MOUNTED	EACH	3
SIGNAL HEAD, POLYCARBONATE, LED, 2-FACE, 5-SECTION, BRACKET MOUNTED	EACH	1
PEDESTRIAN SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, BRACKET MOUNTED WITH COUNT DOWN TIMER	EACH	2
PEDESTRIAN SIGNAL HEAD, POLYCARBONATE, LED, 2-FACE, BRACKET MOUNTED WITH COUNT DOWN TIMER	EACH	2
TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC	EACH	14
PEDESTRIAN PUSH-BUTTON	EACH	4
TEMPORARY TRAFFIC SIGNAL INSTALLATION	EACH	1
DISPOSITION OF SALVAGED TRAFFIC SIGNAL EQUIPMENT	L SUM	0.2
VIDEO VEHICLE DETECTION SYSTEM	EACH	1



CABLE PLAN

PROPOSED CONTROLLER SEQUENCE



PHASE DESIGNATION DIAGRAM

OVERLAP LETTER	PERMISSIVE PHASE	PROTECTED PHASE
A	= 2 + 3	
B	= 4 + 5	
C	= 6 + 7	
D	= 8 + 1	

**JOHN DEERE ROAD AT 53RD STREET
CABLE PLAN, PHASE DESIGNATION DIAGRAM,
AND SCHEDULE OF QUANTITIES**

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
595	(142-1, 142)R	ROCK ISLAND	1353	934

CONTRACT NO. 64B83

TS2-4

FILE NAME = P:\2011\ME11008.PT1515-26.IL5.JDR.Corba\C2-JDR\Sheets\0264883-sht-TS24.JDR.53r.dgn
PLOT SCALE = 40/20000
USER NAME = Millennia Professional Services

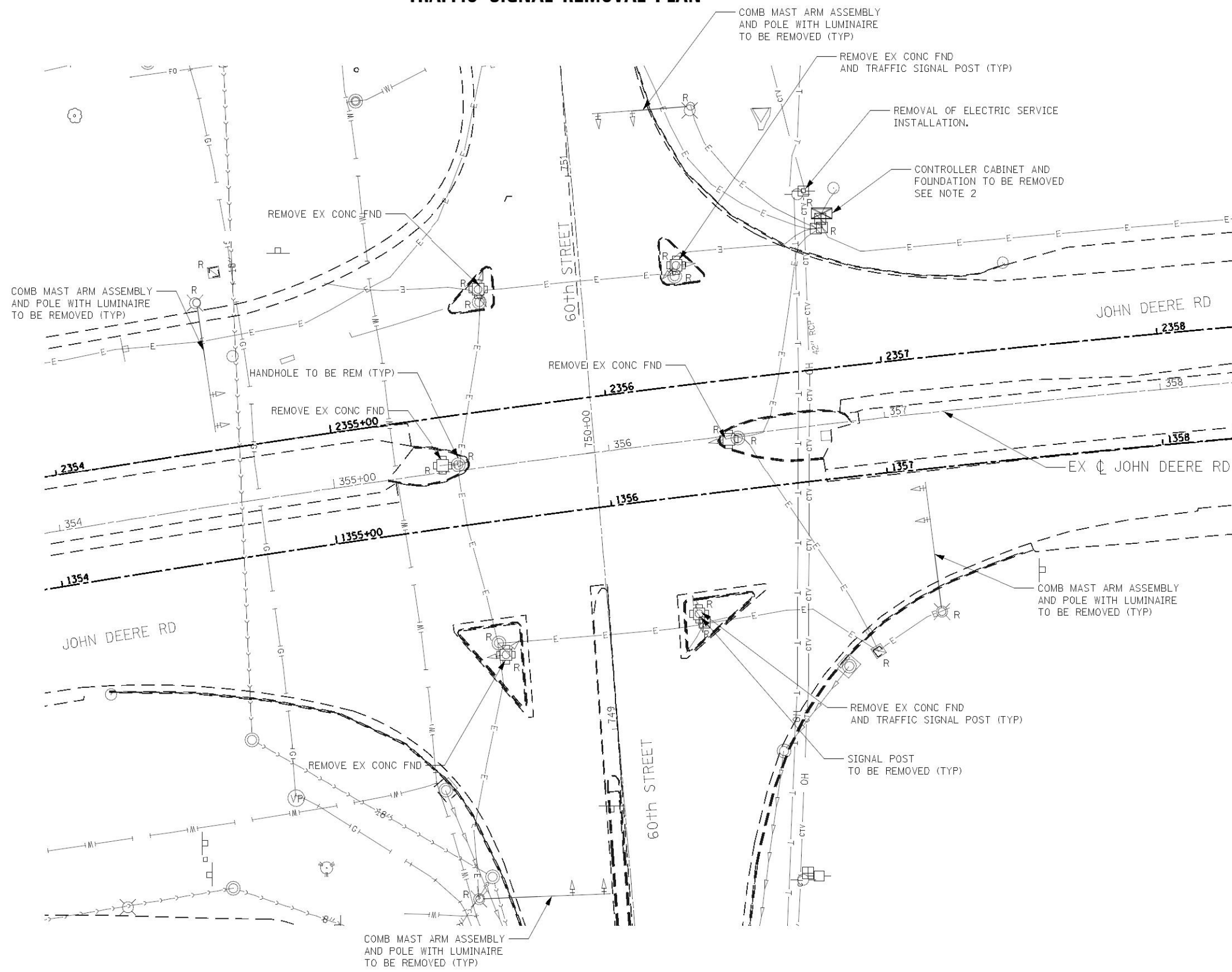


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CHECKED - MG	REVISED -
DATE - 12/18/2014	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

TRAFFIC SIGNAL REMOVAL PLAN



REMOVAL NOTES

- THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR AND SHALL BE DISPOSED OF OUTSIDE OF THE RIGHT-OF-WAY. THE SALVAGE VALUE OF THE REMOVED EQUIPMENT SHALL BE REFLECTED IN THE CONTRACT BID PRICE. THIS WORK SHALL BE PAID FOR AS THE UNIT BID PRICE FOR REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT.
 - 4 EACH COMBINATION MAST ARM ASSEMBLY AND POLE
 - 6 EACH SIGNAL POST
 - 16 EACH SIGNAL HEAD, 1-FACE, 3-SECTION
 - 2 EACH SIGNAL HEAD, 1-FACE, 5-SECTION
 - 4 EACH LUMINAIRE
 - 1 LSUM REMOVE ELECTRIC CABLE FROM CONDUIT
- THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR AND DELIVERED AS LISTED BELOW. THIS WORK SHALL BE INCLUDED IN THE COST OF REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT.
 - 1 EACH CONTROLLER (IDOT)
 - 1 EACH CABINET (CITY OF MOLINE)



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 PLOT SCALE = 1/4" = 10' (1/4" = 10')
 USER NAME = Millennium Professional Services



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DRAWN - TVN	REVISED -
CHECKED - MG	REVISED -
DATE - 12/18/2014	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

JOHN DEERE ROAD AT 60th STREET
TRAFFIC SIGNAL REMOVAL PLAN

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

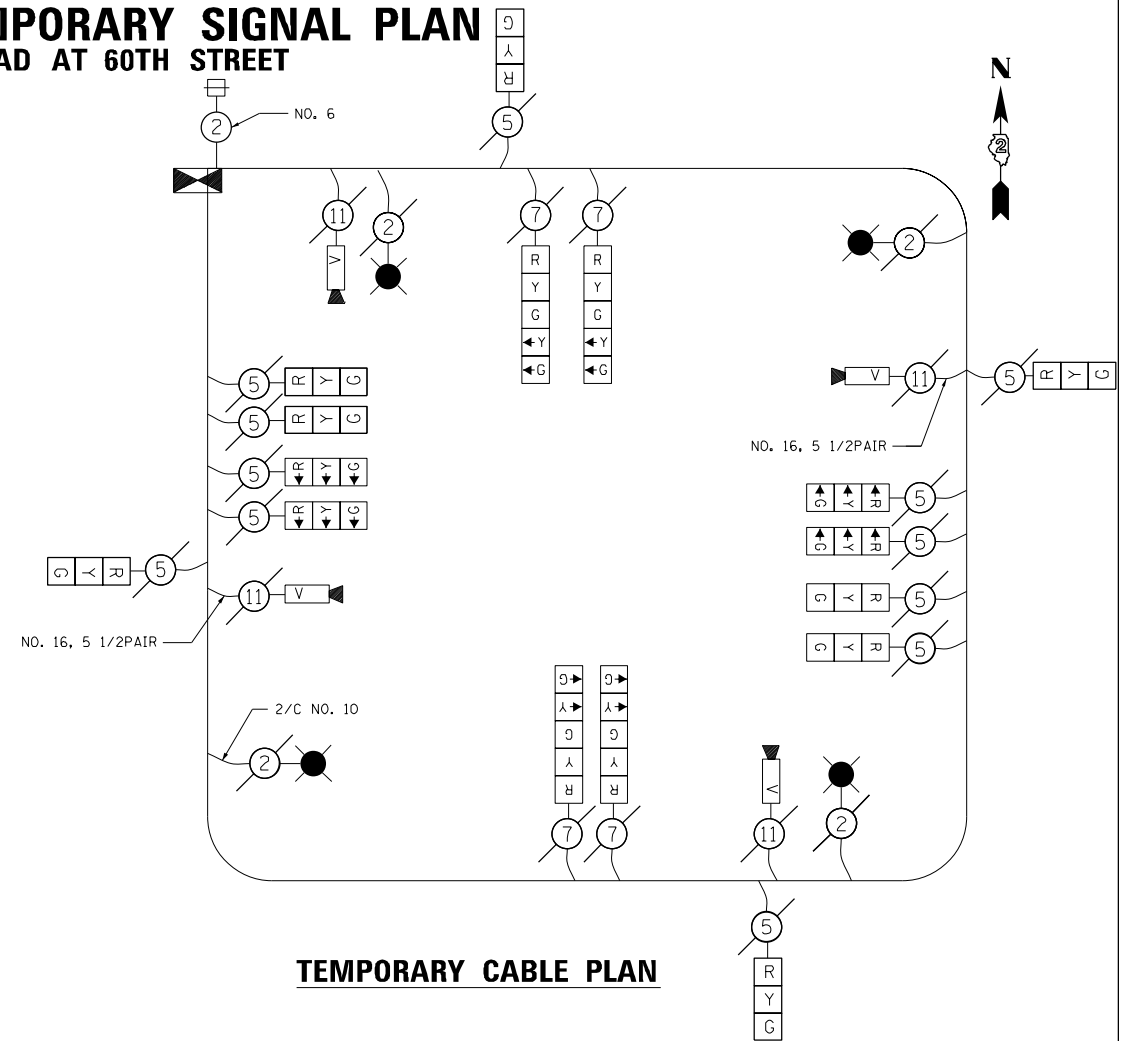
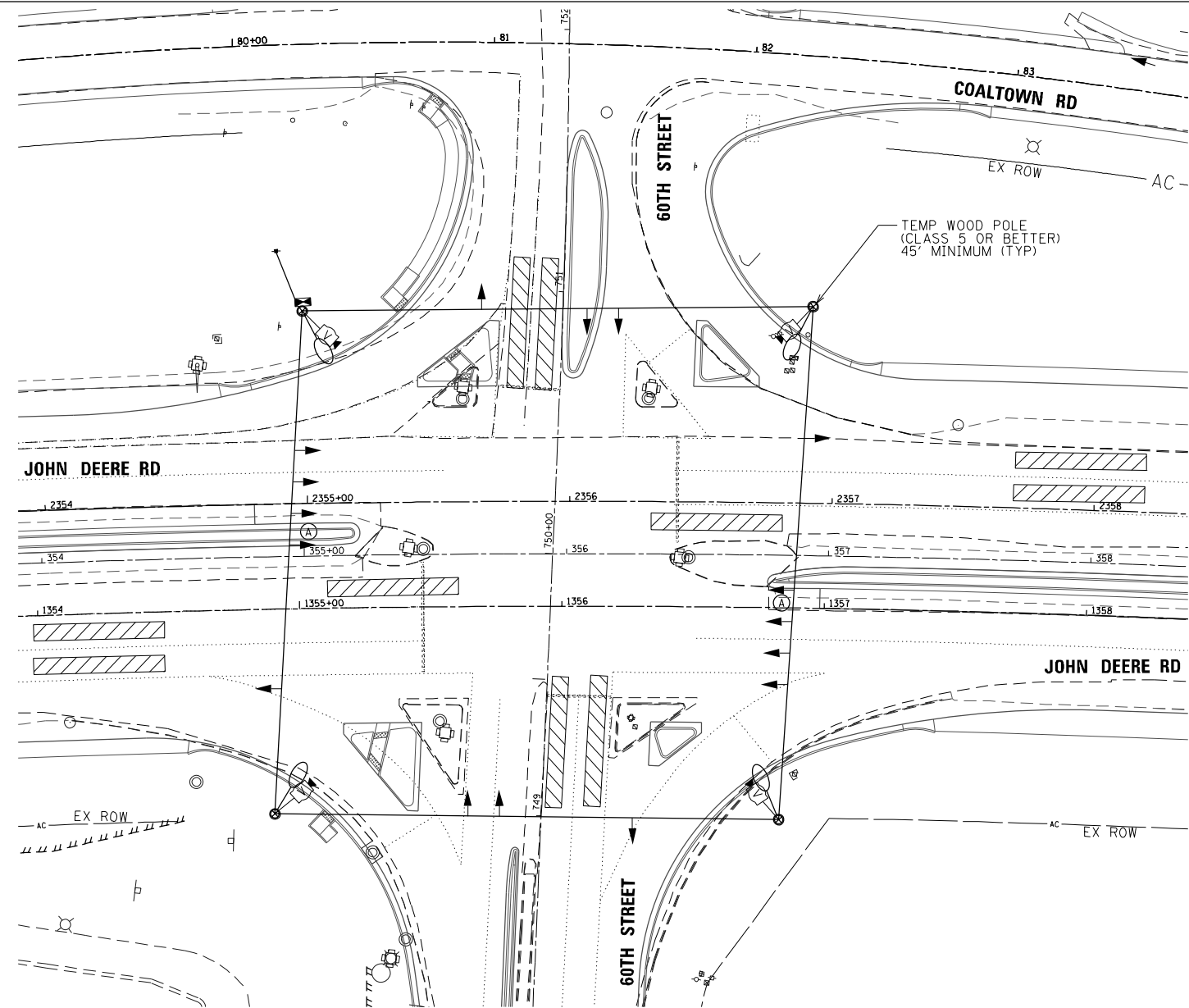
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
595	(142-1, 142)R	ROCK ISLAND	1353	935
CONTRACT NO. 64883				
<small>FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT</small>				

TS3-1

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SUGGESTED TEMPORARY SIGNAL PLAN

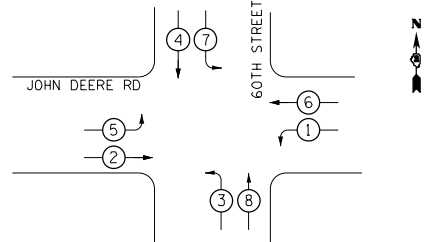
JOHN DEERE ROAD AT 60TH STREET



SIGN (A)
LEFT ON GREEN ARROW ONLY
 R10-5
 24"x30"
 SIGN PANEL TYPE 1
 (4 REQUIRED)

TEMPORARY CABLE PLAN

TEMPORARY CONTROLLER SEQUENCE



PHASE DESIGNATION DIAGRAM

NOTES

- ONLY AN APPROVED IDOT ELECTRICAL SUBCONTRACTOR WILL BE PERMITTED TO INSTALL AND ADJUST VEHICLE DETECTION SYSTEM AS REQUIRED BY STAGE/PHASE CHANGES.
- STAGING OF TEMPORARY SIGNAL INSTALLATION SHALL BE APPROVED BY THE RESIDENT ENGINEER.
- DETECTION ZONES SHALL BE DETERMINED IN THE FIELD BY A QUALIFIED SIGNAL TECHNICIAN.
- RELOCATE EXISTING MAST ARM MOUNTED STREET NAME SIGNS TO THE TEMPORARY TRAFFIC SIGNAL SUPPORT. THIS WORK SHALL BE INCLUDED IN THE COST OF TEMPORARY TRAFFIC SIGNAL INSTALLATION.

FILE NAME = P:\2011\ME11008_PTB155-26_IL5_JDR_Ciorba\C2-JDR\Sheets\0264883-sht-TS32-JDR-60th-Temp.dgn
 PLOT SCALE = 60:2000
 USER NAME = Millennium Professional Services



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 630.705.0110 voice, 630.839.2566 fax
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MILLENNIA PROFESSIONAL SERVICES

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DRAWN - TVN	REVISED -
CHECKED - MG	REVISED -
DATE - 1/14/2015	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

FAP 595 (JOHN DEERE ROAD)
JOHN DEERE ROAD AT 60TH STREET
TEMPORARY SIGNALS PLAN

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
595	(142-1, 142)R	ROCK ISLAND	1353	936
CONTRACT NO. 64B83				
FED. ROAD DIST. NO. 1 [ILLINOIS] FED. AID PROJECT				

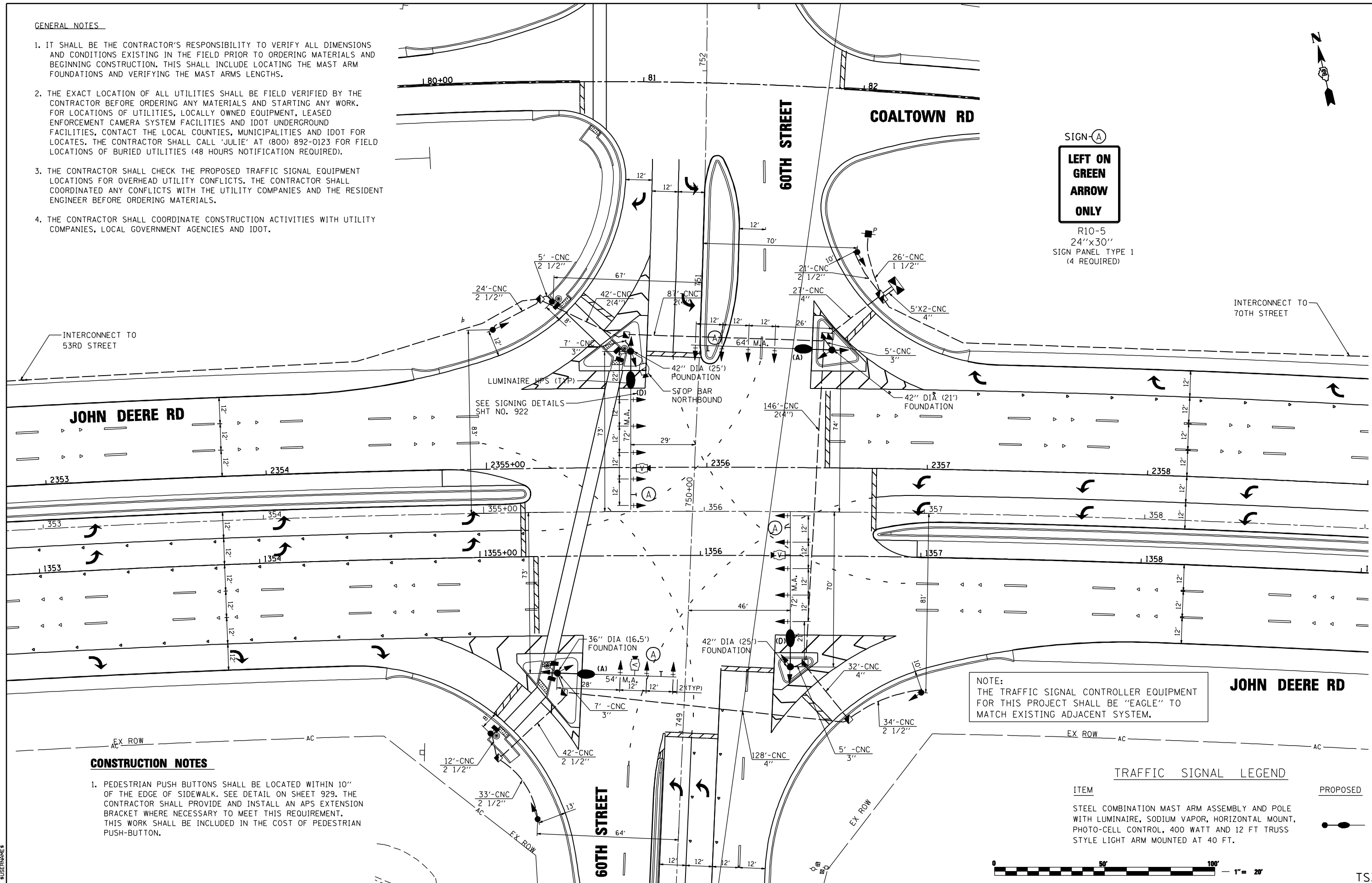
TS3-2

GENERAL NOTES

1. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL DIMENSIONS AND CONDITIONS EXISTING IN THE FIELD PRIOR TO ORDERING MATERIALS AND BEGINNING CONSTRUCTION. THIS SHALL INCLUDE LOCATING THE MAST ARM FOUNDATIONS AND VERIFYING THE MAST ARMS LENGTHS.
2. THE EXACT LOCATION OF ALL UTILITIES SHALL BE FIELD VERIFIED BY THE CONTRACTOR BEFORE ORDERING ANY MATERIALS AND STARTING ANY WORK. FOR LOCATIONS OF UTILITIES, LOCALLY OWNED EQUIPMENT, LEASED ENFORCEMENT CAMERA SYSTEM FACILITIES AND IDOT UNDERGROUND FACILITIES, CONTACT THE LOCAL COUNTIES, MUNICIPALITIES AND IDOT FOR LOCATES. THE CONTRACTOR SHALL CALL 'JULIE' AT (800) 892-0123 FOR FIELD LOCATIONS OF BURIED UTILITIES (48 HOURS NOTIFICATION REQUIRED).
3. THE CONTRACTOR SHALL CHECK THE PROPOSED TRAFFIC SIGNAL EQUIPMENT LOCATIONS FOR OVERHEAD UTILITY CONFLICTS. THE CONTRACTOR SHALL COORDINATED ANY CONFLICTS WITH THE UTILITY COMPANIES AND THE RESIDENT ENGINEER BEFORE ORDERING MATERIALS.
4. THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH UTILITY COMPANIES, LOCAL GOVERNMENT AGENCIES AND IDOT.



SIGN (A)
**LEFT ON GREEN
 ARROW
 ONLY**
 R10-5
 24"x30"
 SIGN PANEL TYPE 1
 (4 REQUIRED)



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

TRAFFIC SIGNAL LEGEND

ITEM	PROPOSED
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH LUMINAIRE, SODIUM VAPOR, HORIZONTAL MOUNT, PHOTO-CELL CONTROL, 400 WATT AND 12 FT TRUSS STYLE LIGHT ARM MOUNTED AT 40 FT.	

CONSTRUCTION NOTES

1. PEDESTRIAN PUSH BUTTONS SHALL BE LOCATED WITHIN 10' OF THE EDGE OF SIDEWALK. SEE DETAIL ON SHEET 929. THE CONTRACTOR SHALL PROVIDE AND INSTALL AN APS EXTENSION BRACKET WHERE NECESSARY TO MEET THIS REQUIREMENT. THIS WORK SHALL BE INCLUDED IN THE COST OF PEDESTRIAN PUSH-BUTTON.

N:\PROJ\0003393\00\CONTRACT_2\Design\Signals\AD264883-shr-TS33-JDR_60th.dgn
 USER: MPE
 DATE: 7/13/2015



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DRAWN -	MS1	REVISED -	
CHECKED -	MS1	REVISED -	
DATE -	7/13/2015	REVISED -	

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

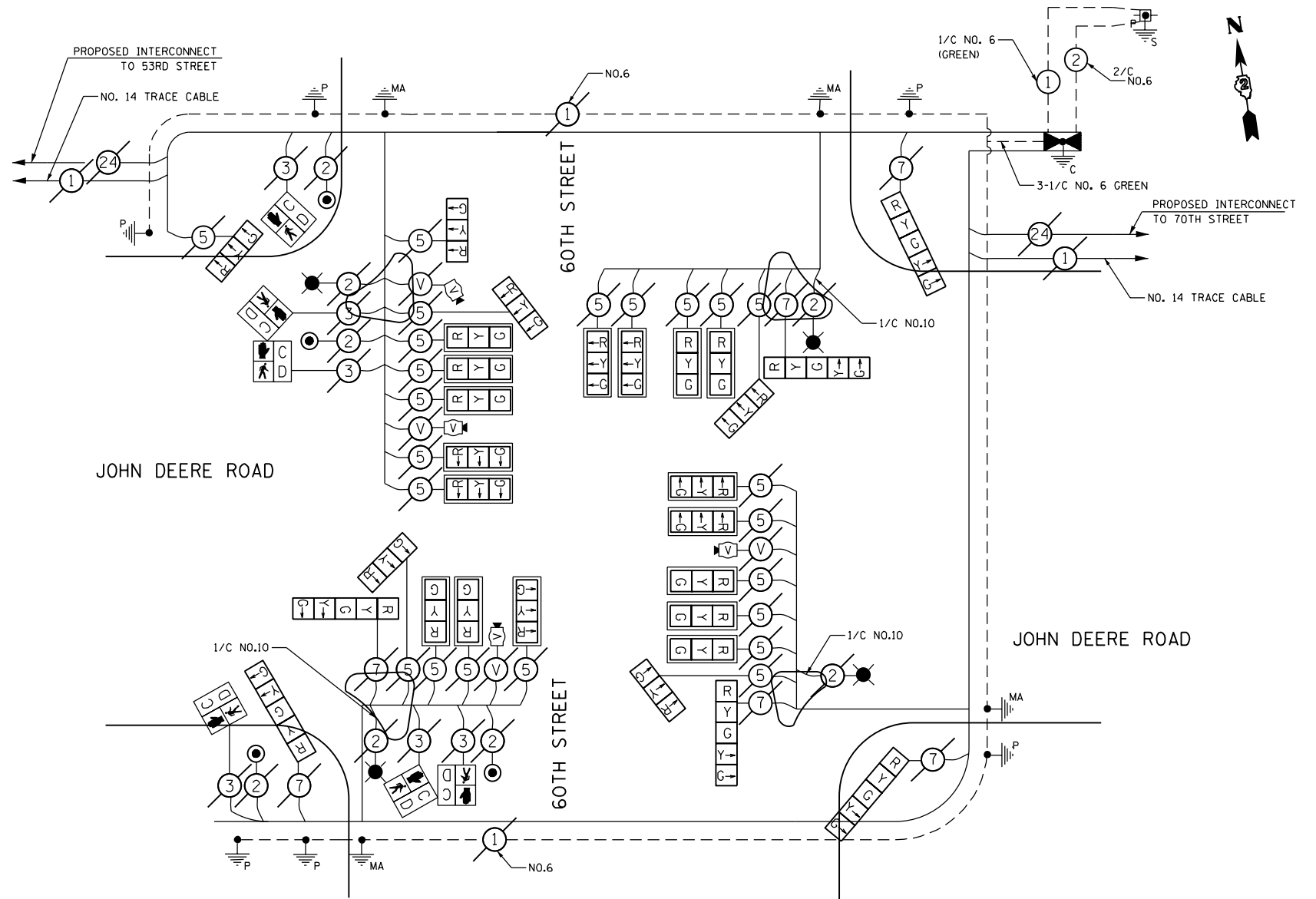
**FAP 595 (JOHN DEERE ROAD)
 JOHN DEERE ROAD AT 60TH STREET
 TRAFFIC SIGNAL INSTALLATION PLAN**

SCALE: SCALE20 SHEET NO. OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
595	(142-1, 142)R	ROCK ISLAND	1353	937
CONTRACT NO. 64883				

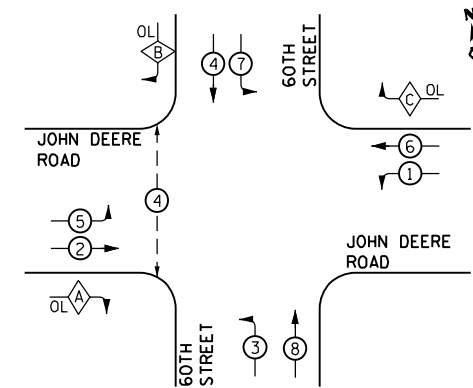
TABULATION OF QUANTITIES – JOHN DEERE ROAD AT 60TH STREET

ITEM	UNIT	QUANTITY
ROCK EXCAVATION FOR STRUCTURES	CU YD	8.2
SIGN PANEL - TYPE 1	SQ FT	20
SIGN PANEL - TYPE 2	SQ FT	58
SERVICE INSTALLATION, TYPE A	EACH	1
UNDERGROUND CONDUIT, COILABLE NONMETALLIC CONDUIT, 1 1/2" DIA.	FOOT	26
UNDERGROUND CONDUIT, COILABLE NONMETALLIC CONDUIT, 2 1/2" DIA.	FOOT	201
UNDERGROUND CONDUIT, COILABLE NONMETALLIC CONDUIT, 3" DIA.	FOOT	24
UNDERGROUND CONDUIT, COILABLE NONMETALLIC CONDUIT, 4" DIA.	FOOT	774
HANDHOLE, COMPOSITE CONCRETE	EACH	6
DOUBLE HANDHOLE, COMPOSITE CONCRETE	EACH	2
FULL-ACTUATED CONTROLLER AND TYPE IV CABINET	EACH	1
ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 10	FOOT	1089
LUMINAIRE, SODIUM VAPOR, HORIZONTAL MOUNT, PHOTO-CELL CONTROL, 400 WATT	EACH	4
TRANSCEIVER - FIBER OPTIC	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	1251
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	1873
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	5884
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	1586
ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C	FOOT	92
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	695
TRAFFIC SIGNAL POST, GALVANIZED STEEL 10 FT.	EACH	2
TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EACH	4
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 54 FT.	EACH	1
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 64 FT.	EACH	1
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 72 FT.	EACH	2
CONCRETE FOUNDATION, TYPE A	FOOT	24
CONCRETE FOUNDATION, TYPE D	FOOT	4
CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	16.5
CONCRETE FOUNDATION, TYPE E 42-INCH DIAMETER	FOOT	71
SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	1
SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED	EACH	17
SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	3
SIGNAL HEAD, POLYCARBONATE, LED, 2-FACE, 3-SECTION, BRACKET MOUNTED	EACH	1
SIGNAL HEAD, POLYCARBONATE, LED, 2-FACE, 1-3 SECTION, 1-5 SECTION, BRACKET MOUNTED	EACH	3
PEDESTRIAN SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, BRACKET MOUNTED WITH COUNT DOWN TIMER	EACH	2
PEDESTRIAN SIGNAL HEAD, POLYCARBONATE, LED, 2-FACE, BRACKET MOUNTED WITH COUNT DOWN TIMER	EACH	2
TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC	EACH	17
PEDESTRIAN PUSH-BUTTON	EACH	4
TEMPORARY TRAFFIC SIGNAL INSTALLATION	EACH	1
DISPOSITION OF SALVAGED TRAFFIC SIGNAL EQUIPMENT	L SUM	0.2
VIDEO VEHICLE DETECTION SYSTEM	EACH	1



CABLE PLAN

PROPOSED CONTROLLER SEQUENCE



PHASE DESIGNATION DIAGRAM

OVERLAP LETTER	PERMISSIVE PHASE	PROTECTED PHASE
A	= 2 + 3	
B	= 4 + 5	
C	= 6 + 7	

FILE NAME = P:\2011\ME11008.PT155-26_IL5_JDR-Corba\C2-JDR\Sheets\0264883-sht-TS34-JDR-60th.dgn
 PLOT SCALE = 40/2000
 USER NAME = Millennium Professional Services

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DRAWN - TVN	REVISED -
CHECKED - MG	REVISED -
DATE - 12/18/2014	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

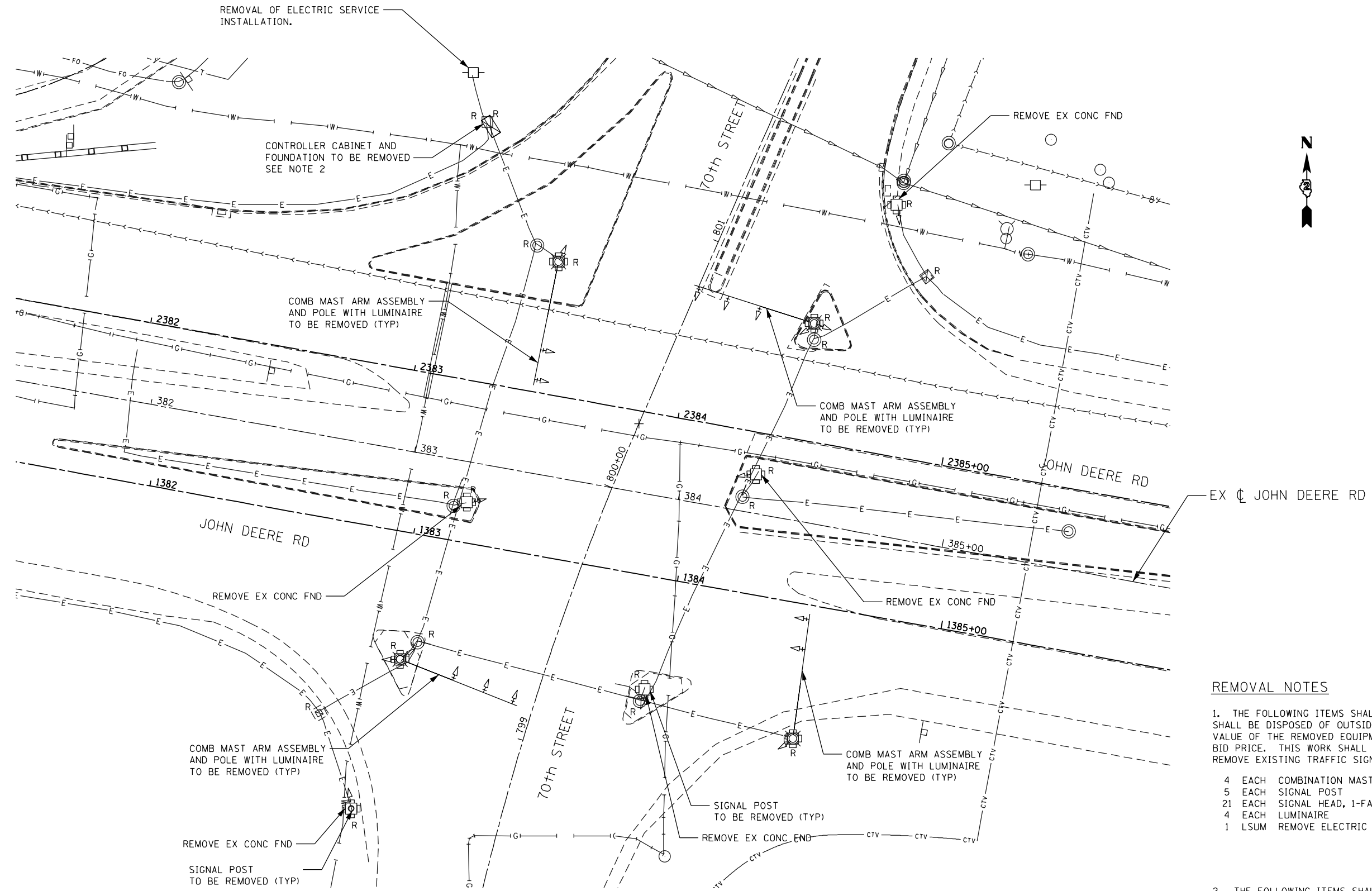
**JOHN DEERE ROAD AT 60TH STREET
 CABLE PLAN, PHASE DESIGNATION DIAGRAM,
 AND SCHEDULE OF QUANTITIES**

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
595	(142-1, 142)R	ROCK ISLAND	1353	938
CONTRACT NO. 64B83				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

TS3-4

TRAFFIC SIGNAL REMOVAL PLAN



REMOVAL NOTES

1. THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR AND SHALL BE DISPOSED OF OUTSIDE OF THE RIGHT-OF-WAY. THE SALVAGE VALUE OF THE REMOVED EQUIPMENT SHALL BE REFLECTED IN THE CONTRACT BID PRICE. THIS WORK SHALL BE PAID FOR AS THE UNIT BID PRICE FOR REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT.
 - 4 EACH COMBINATION MAST ARM ASSEMBLY AND POLE
 - 5 EACH SIGNAL POST
 - 21 EACH SIGNAL HEAD, 1-FACE, 3-SECTION
 - 4 EACH LUMINAIRE
 - 1 LSUM REMOVE ELECTRIC CABLE FROM CONDUIT

2. THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR AND DELIVERED AS LISTED BELOW. THIS WORK SHALL BE INCLUDED IN THE COST OF REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT.
 - 1 EACH CONTROLLER AND CABINET, COMPLETE (CITY OF MOLINE)



FILE NAME = P:\2011\ME11008.PT8155-26.IL5.JDR.Ciorba\C2-JDR\Sheets\0264883-sht-TS41.r-em-JDR-70th.dgn
 PLOT SCALE = 40:2000
 USER NAME = Millennium Professional Services



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DRAWN - TVN	REVISED -
CHECKED - MG	REVISED -
DATE - 12/18/2014	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

FAP 595 (JOHN DEERE ROAD)
JOHN DEERE ROAD AT 70th STREET
TRAFFIC SIGNAL REMOVAL PLAN

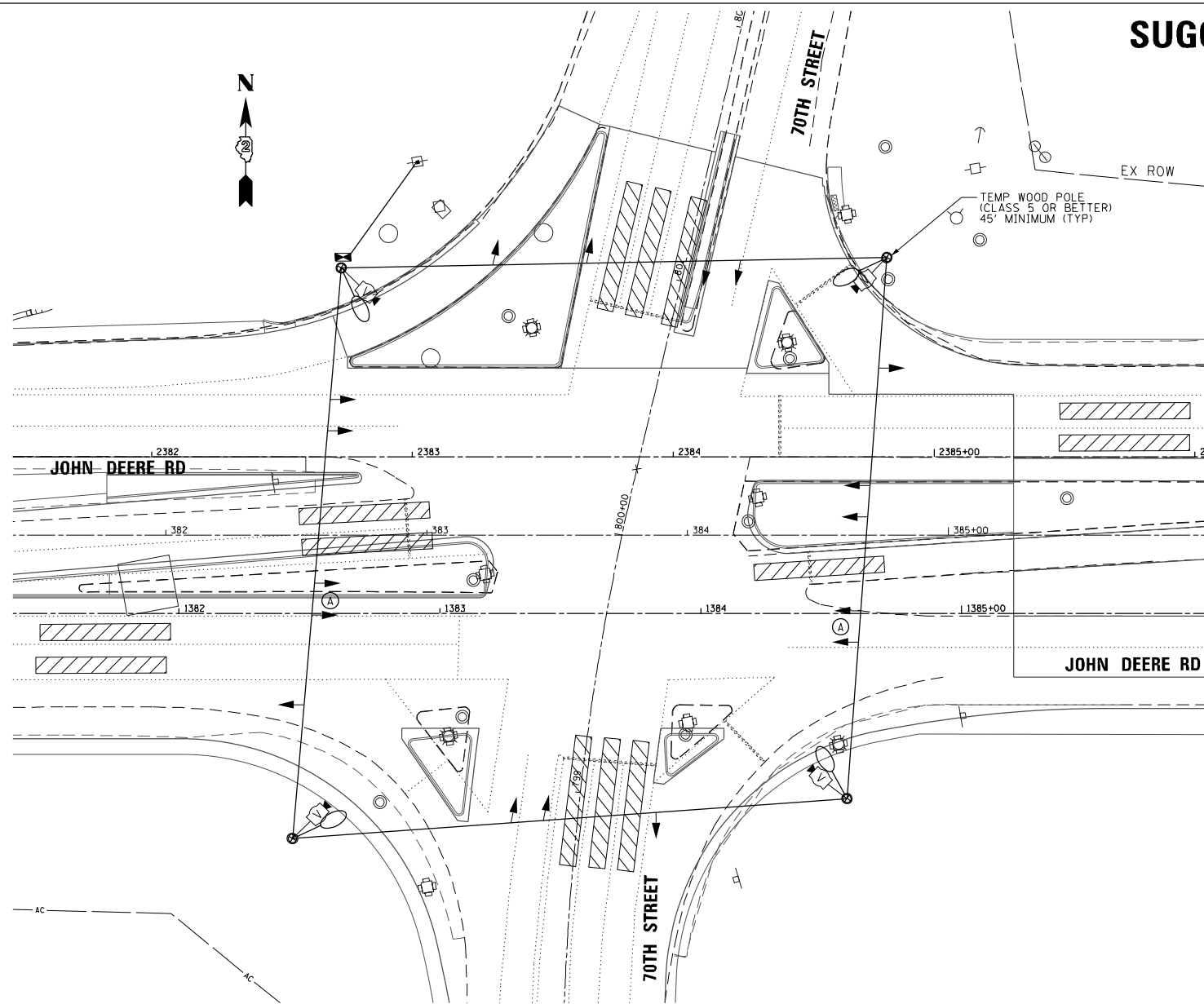
SCALE: 1"=20' SHEET NO. OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
595	(142-1, 142R)	ROCK ISLAND	1353	939
CONTRACT NO. 64883				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

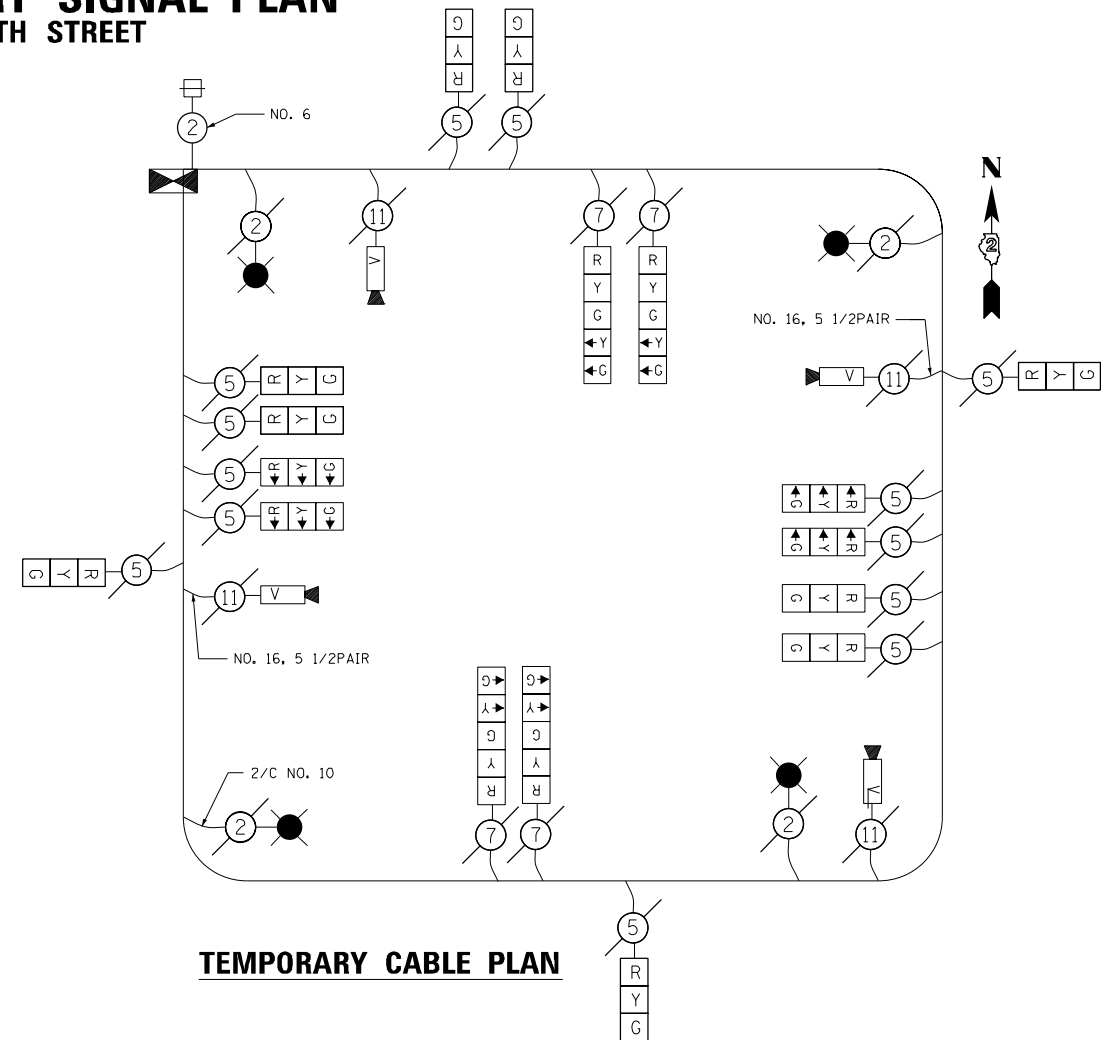
TS4-1

SUGGESTED TEMPORARY SIGNAL PLAN

JOHN DEERE ROAD AT 70TH STREET

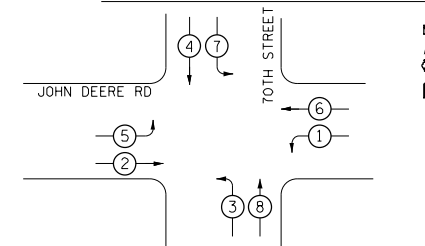


SIGN-A
LEFT ON GREEN ARROW ONLY
 R10-5
 24" x 30"
 SIGN PANEL TYPE 1
 (4 REQUIRED)



TEMPORARY CABLE PLAN

TEMPORARY CONTROLLER SEQUENCE



PHASE DESIGNATION DIAGRAM

NOTES

1. ONLY AN APPROVED IDOT ELECTRICAL SUBCONTRACTOR WILL BE PERMITTED TO INSTALL AND ADJUST VEHICLE DETECTION SYSTEM AS REQUIRED BY STAGE/PHASE CHANGES.
2. STAGING OF TEMPORARY SIGNAL INSTALLATION SHALL BE APPROVED BY THE RESIDENT ENGINEER.
3. DETECTION ZONES SHALL BE DETERMINED IN THE FIELD BY A QUALIFIED SIGNAL TECHNICIAN.
4. RELOCATE EXISTING MAST ARM MOUNTED STREET NAME SIGNS TO THE TEMPORARY TRAFFIC SIGNAL SUPPORT. THIS WORK SHALL BE INCLUDED IN THE COST OF TEMPORARY TRAFFIC SIGNAL INSTALLATION.

FILE NAME = P:\2011\ME11008_PTB155-26_IL5_JDR_Ciorba\C2-JDR\Sheets\0264883-sht-TS42_JDR_70th-Temp.dgn
 PLOT SCALE = 60/2000
 USER NAME = Millennium Professional Services



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DRAWN - TVN	REVISED -
CHECKED - MG	REVISED -
DATE - 1/14/2015	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**FAP 595 (JOHN DEERE ROAD)
 JOHN DEERE ROAD AT 70TH STREET
 TEMPORARY SIGNALS PLAN**

SCALE: 1"=30' SHEET NO. OF SHEETS STA. TO STA.

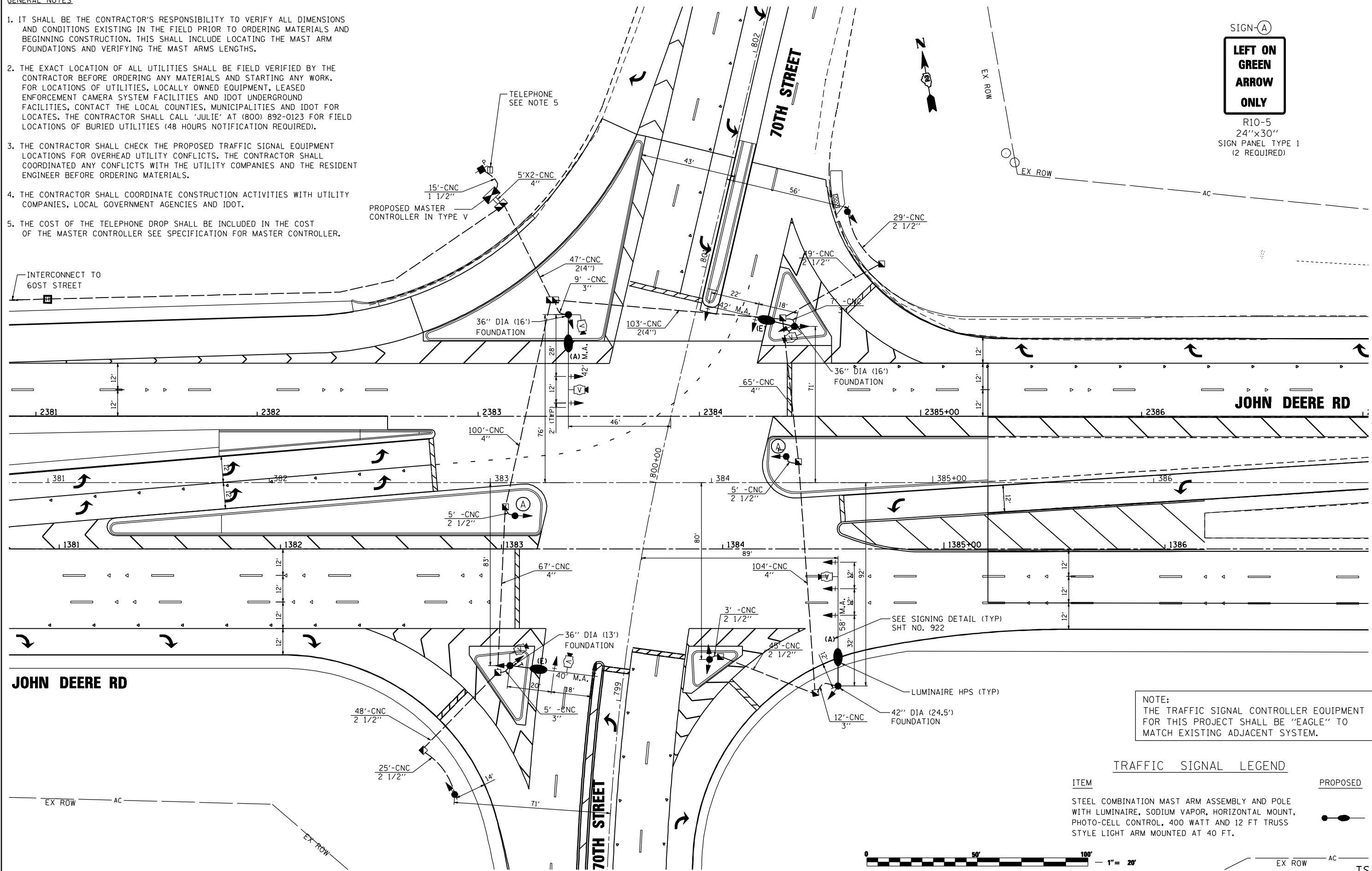
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
595	(142-1, 142)R	ROCK ISLAND	1353	940
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT			CONTRACT NO. 64B83	

TS4-2

GENERAL NOTES

1. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL DIMENSIONS AND CONDITIONS EXISTING IN THE FIELD PRIOR TO ORDERING MATERIALS AND BEGINNING CONSTRUCTION. THIS SHALL INCLUDE LOCATING THE MAST ARM FOUNDATIONS AND VERIFYING THE MAST ARMS LENGTHS.
2. THE EXACT LOCATION OF ALL UTILITIES SHALL BE FIELD VERIFIED BY THE CONTRACTOR BEFORE ORDERING ANY MATERIALS AND STARTING ANY WORK. FOR LOCATIONS OF UTILITIES, LOCALLY OWNED EQUIPMENT, LEASED ENFORCEMENT CAMERA SYSTEM FACILITIES AND IDOT UNDERGROUND FACILITIES, CONTACT THE LOCAL COUNTIES, MUNICIPALITIES AND IDOT FOR LOCATES. THE CONTRACTOR SHALL CALL 'JULIE' AT (800) 892-0123 FOR FIELD LOCATIONS OF BURIED UTILITIES (48 HOURS NOTIFICATION REQUIRED).
3. THE CONTRACTOR SHALL CHECK THE PROPOSED TRAFFIC SIGNAL EQUIPMENT LOCATIONS FOR OVERHEAD UTILITY CONFLICTS. THE CONTRACTOR SHALL COORDINATED ANY CONFLICTS WITH THE UTILITY COMPANIES AND THE RESIDENT ENGINEER BEFORE ORDERING MATERIALS.
4. THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH UTILITY COMPANIES, LOCAL GOVERNMENT AGENCIES AND IDOT.
5. THE COST OF THE TELEPHONE DROP SHALL BE INCLUDED IN THE COST OF THE MASTER CONTROLLER SEE SPECIFICATION FOR MASTER CONTROLLER.

SIGN-A
**LEFT ON GREEN
 ARROW
 ONLY**
 R10-5
 24"x30"
 SIGN PANEL TYPE 1
 (2 REQUIRED)



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

TRAFFIC SIGNAL LEGEND

ITEM	PROPOSED
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH LUMINAIRE, SODIUM VAPOR, HORIZONTAL MOUNT, PHOTO-CELL CONTROL, 400 WATT AND 12 FT TRUSS STYLE LIGHT ARM MOUNTED AT 40 FT.	



N:\PROJ\0003393\00\CONTRACT_2\Design\Signals\AD264883-sht-TS43-JDR-70th.dgn
 USER: JDR
 DATE: 7/13/2015

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DRAWN -	#DBS1	REVISED -	
CHECKED -	#EBK1	REVISED -	
DATE -	7/13/2015	REVISED -	

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**FAP 595 (JOHN DEERE ROAD)
 JOHN DEERE ROAD AT 70TH STREET
 TRAFFIC SIGNAL INSTALLATION PLAN**

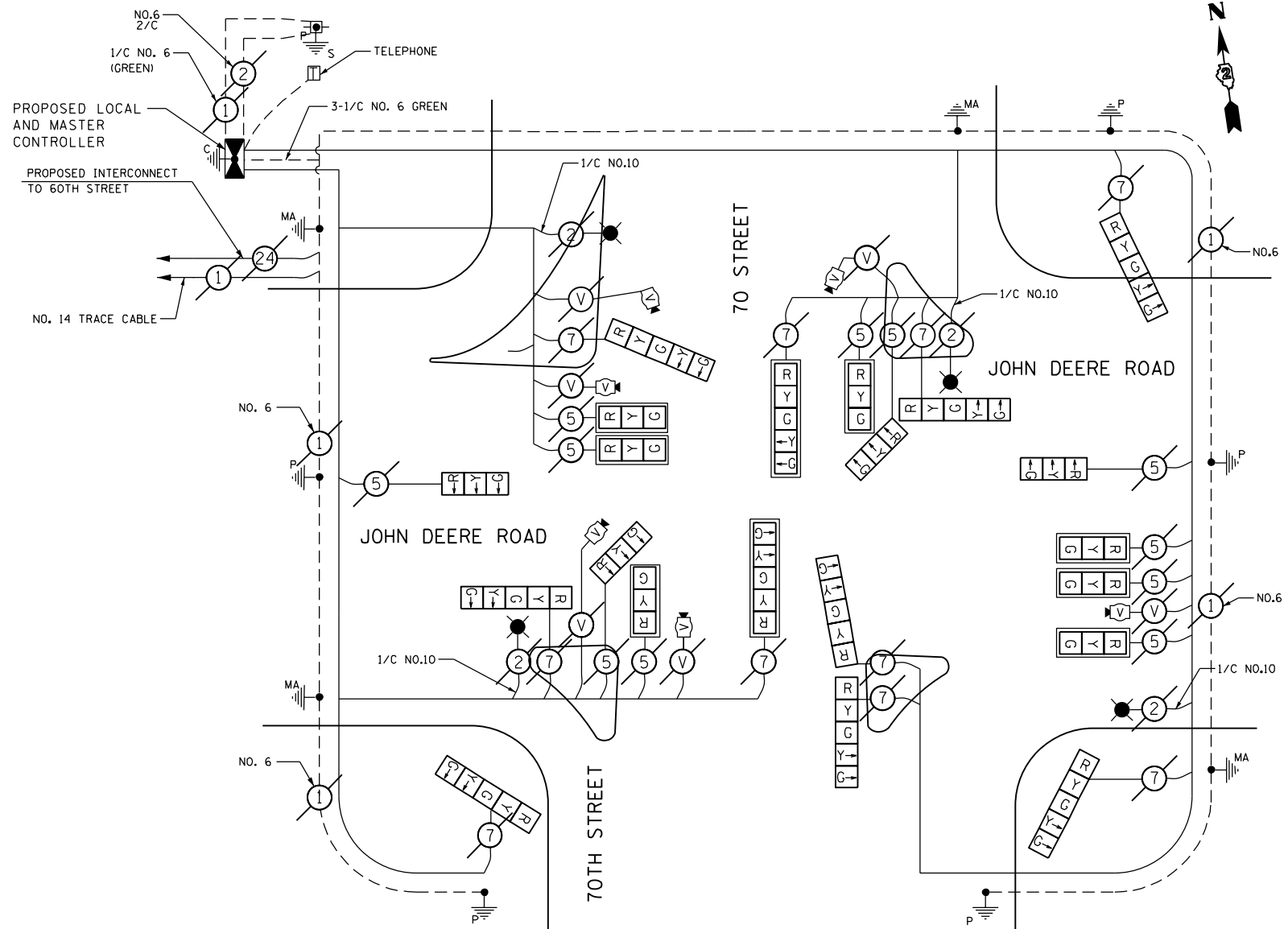
SCALE: 1/4" = 10' SHEET NO. OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
595	(142-1, 142)R	ROCK ISLAND	1353	941
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT			CONTRACT NO. 64B83	

TS4-3

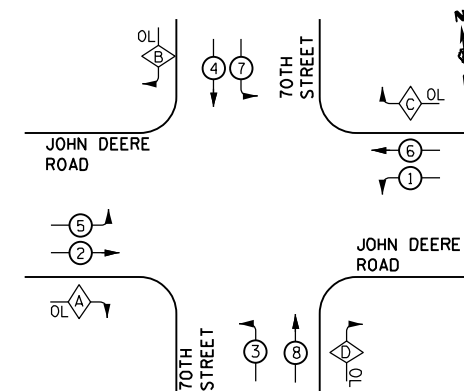
TABULATION OF QUANTITIES – JOHN DEERE ROAD AT 70TH STREET

ITEM	UNIT	QUANTITY
ROCK EXCAVATION FOR STRUCTURES	CU YD	2.8
SIGN PANEL - TYPE 1	SQ FT	10
SIGN PANEL - TYPE 2	SQ FT	58
SERVICE INSTALLATION, TYPE A	EACH	1
UNDERGROUND CONDUIT, COILABLE NONMETALLIC CONDUIT, 1 1/2" DIA.	FOOT	15
UNDERGROUND CONDUIT, COILABLE NONMETALLIC CONDUIT, 2 1/2" DIA.	FOOT	249
UNDERGROUND CONDUIT, COILABLE NONMETALLIC CONDUIT, 3" DIA.	FOOT	33
UNDERGROUND CONDUIT, COILABLE NONMETALLIC CONDUIT, 4" DIA.	FOOT	646
HANDHOLE, COMPOSITE CONCRETE	EACH	8
DOUBLE HANDHOLE, COMPOSITE CONCRETE	EACH	2
ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 10	FOOT	1144
LUMINAIRE, SODIUM VAPOR, HORIZONTAL MOUNT, PHOTO-CELL CONTROL, 400 WATT	EACH	4
TRANSCIEVER - FIBER OPTIC	EACH	1
FULL-ACTUATED CONTROLLER AND TYPE V CABINET	EACH	1
MASTER CONTROLLER	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	3331
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	3155
ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C	FOOT	96
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	689
TRAFFIC SIGNAL POST, GALVANIZED STEEL 14 FT.	EACH	2
TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EACH	4
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 40 FT.	EACH	1
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 42 FT.	EACH	2
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 58 FT.	EACH	1
CONCRETE FOUNDATION, TYPE A	FOOT	20
CONCRETE FOUNDATION, TYPE D	FOOT	4
CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	45
CONCRETE FOUNDATION, TYPE E 42-INCH DIAMETER	FOOT	24.5
SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	2
SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	7
SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	4
SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED	EACH	2
SIGNAL HEAD, POLYCARBONATE, LED, 2-FACE, 5-SECTION, BRACKET MOUNTED	EACH	1
SIGNAL HEAD, POLYCARBONATE, LED, 2-FACE, 1-3-SECTION, 1-5-SECTION, BRACKET MOUNTED	EACH	2
TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC	EACH	9
TEMPORARY TRAFFIC SIGNAL INSTALLATION	EACH	1
DISPOSITION OF SALVAGED TRAFFIC SIGNAL EQUIPMENT	L SUM	0.2
VIDEO VEHICLE DETECTION SYSTEM	EACH	1



CABLE PLAN

PROPOSED CONTROLLER SEQUENCE



PHASE DESIGNATION DIAGRAM

OVERLAP LETTER	PERMISSIVE PHASE	PROTECTED PHASE
A	= 2	+ 3
B	= 4	+ 5
C	= 6	+ 7
D	= 8	+ 1

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 PLOT SCALE = 40/2000
 USER NAME = Millennia Professional Services



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MILLENNIA PROFESSIONAL SERVICES

DESIGNED - TVN	REVISED -
DRAWN - TVN	REVISED -
CHECKED - MG	REVISED -
DATE - 12/18/2014	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**JOHN DEERE ROAD AT 70TH STREET
CABLE PLAN, PHASE DESIGNATION DIAGRAM,
AND SCHEDULE OF QUANTITIES**

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

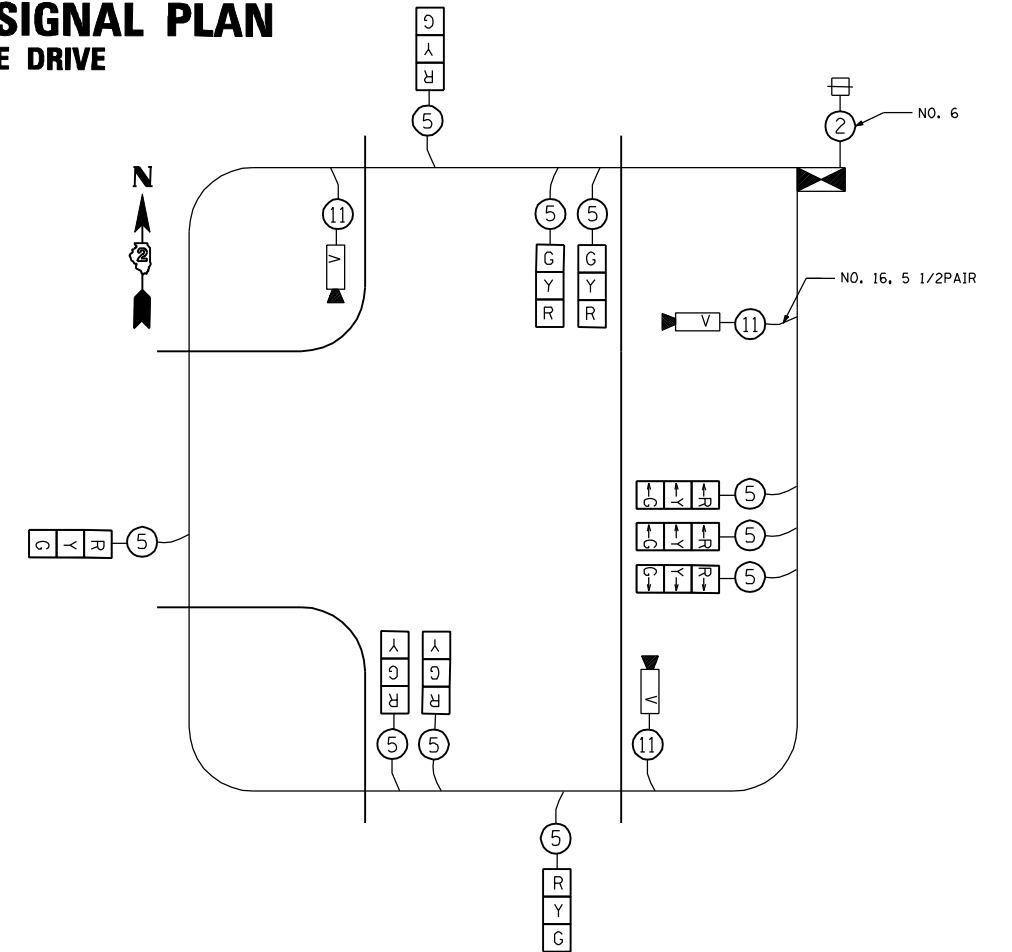
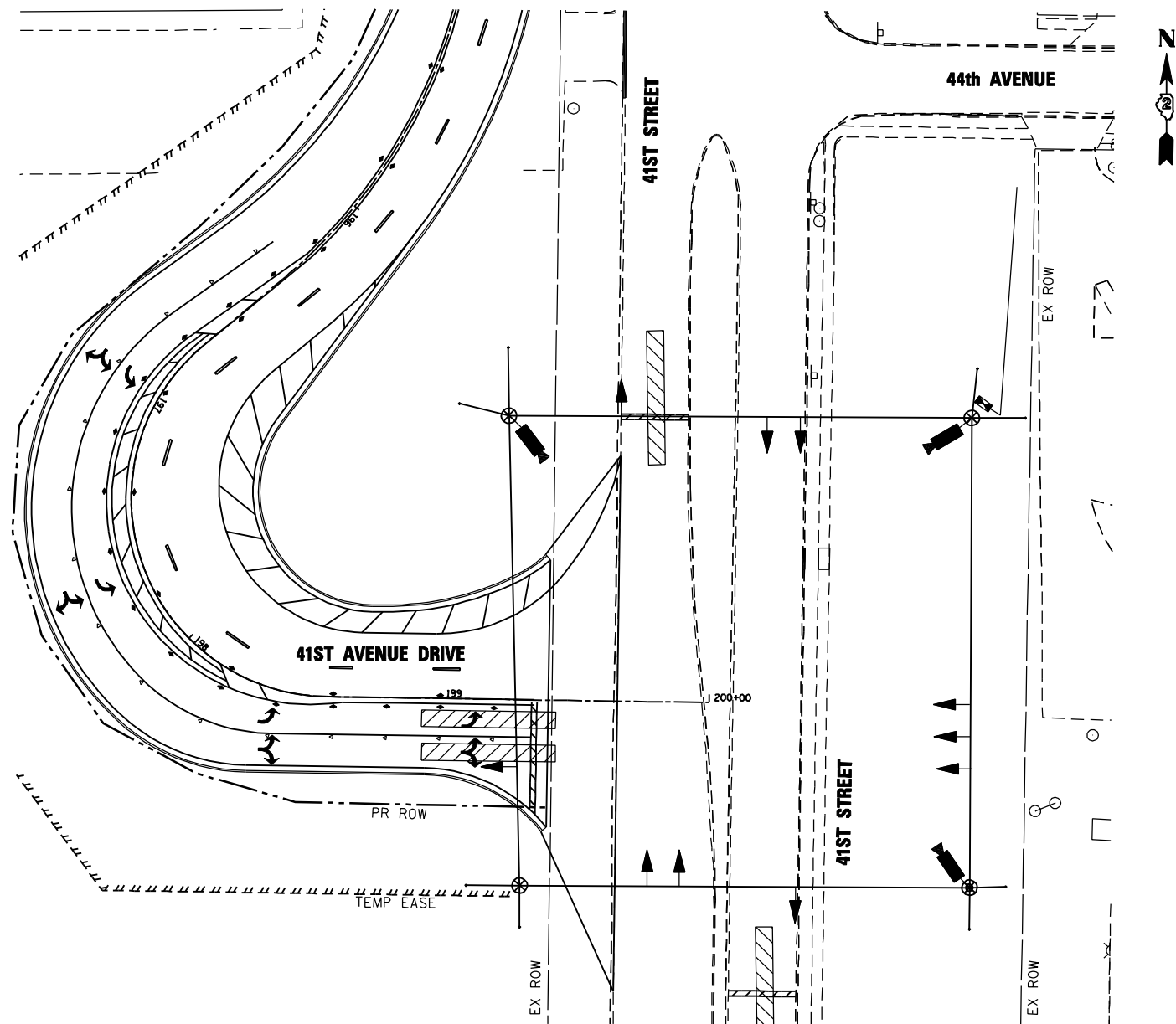
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
595	(142-1, 142R)	ROCK ISLAND	1353	942

CONTRACT NO. 64B83

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

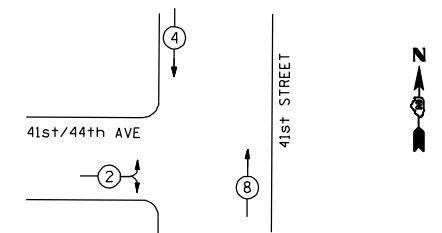
TS4-4

EXISTING TEMPORARY SIGNAL PLAN 41st STREET AT 41st AVENUE DRIVE



TEMPORARY CABLE PLAN

TEMPORARY CONTROLLER SEQUENCE



PHASE DESIGNATION DIAGRAM

NOTES

1. ONLY AN APPROVED IDOT ELECTRICAL SUBCONTRACTOR WILL BE PERMITTED TO INSTALL AND ADJUST VEHICLE DETECTION SYSTEM AS REQUIRED BY STAGE/PHASE CHANCES.
2. STAGING OF TEMPORARY SIGNAL INSTALLATION SHALL BE APPROVED BY THE RESIDENT ENGINEER.
3. DETECTION ZONES SHALL BE DETERMINED IN THE FIELD BY A QUALIFIED SIGNAL TECHNICIAN.

TEMPORARY SIGNALS INSTALLED PREVIOUSLY AS PART OF CONTRACT 64B84

FILE NAME : N:\PROD\0803303\CONTRACT_2\Design\Signal\41st\41st-41B.dgn

Ciorba Group, Inc.
CONSULTING ENGINEERS
6507 North Cumberland Avenue, Suite 402
Chicago, Illinois 60656
Tel. 773.776.4009 Fax 773.776.4014

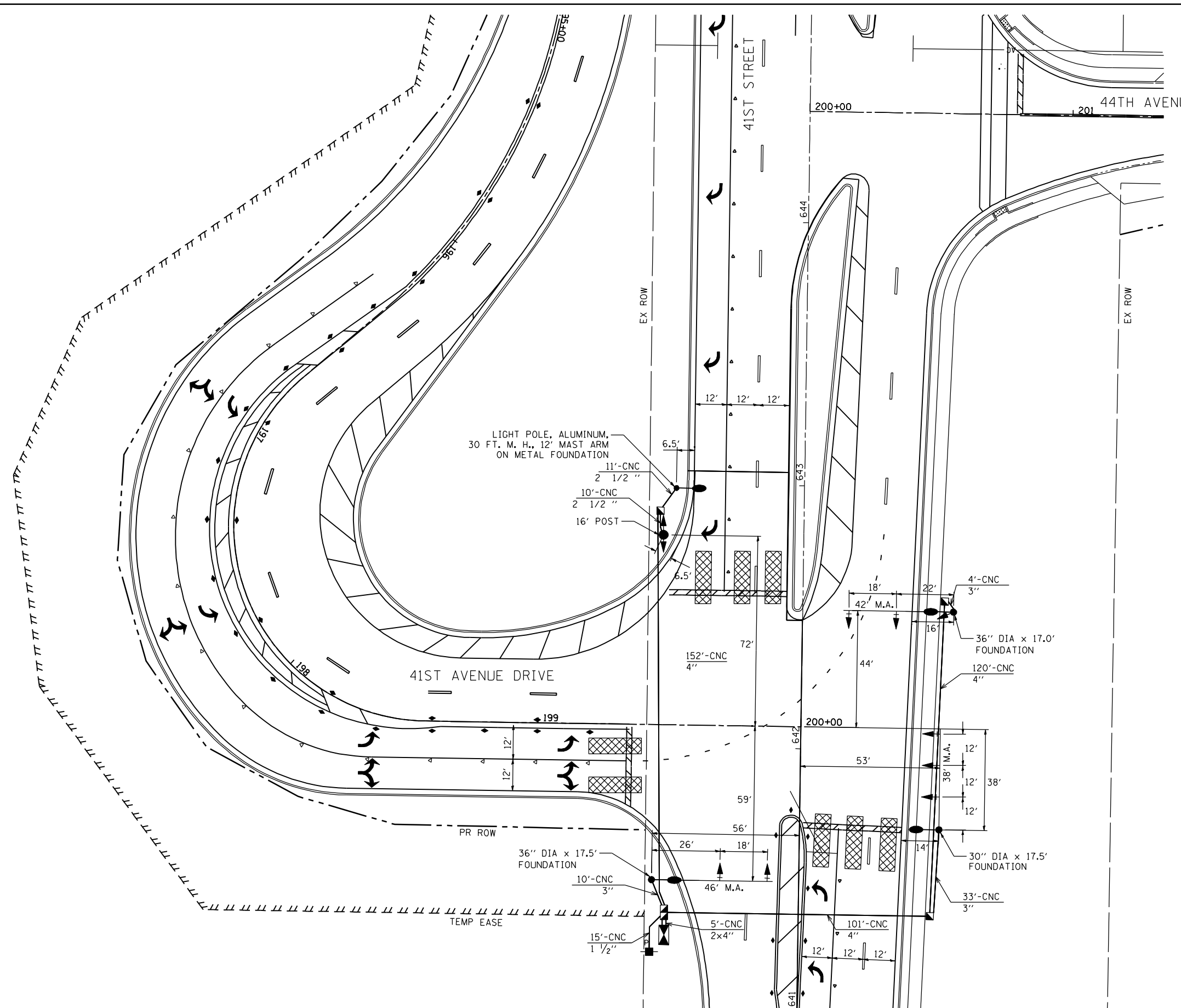
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	DRAWN - NT	REVISED -
PLOT SCALE = 68.0000" / IN.	CHECKED - DJO	REVISED -
PLOT DATE = 12/19/2014	DATE - 12/19/2014	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

**JOHN DEERE ROAD RECONSTRUCTION
41ST STREET AT 41ST AVENUE DRIVE
TEMPORARY SIGNAL PLAN**

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
595	(142-1, 142)R	ROCK ISLAND	1353	943
CONTRACT NO. 64B83				
ILLINOIS FED. AID PROJECT				



TRAFFIC SIGNAL LEGEND

ITEM PROPOSED

STEEL COMBINATION MAST ARM ASSEMBLY AND POLE (SPECIAL) WITH LUMINAIRE, LED, HORIZONTAL MOUNT, 180 WATT, 98 LED AND 12 FT TRUSS STYLE LIGHT ARM MOUNTED AT 30 FT.

GENERAL NOTES

1. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL DIMENSIONS AND CONDITIONS EXISTING IN THE FIELD PRIOR TO ORDERING MATERIALS AND BEGINNING CONSTRUCTION. THIS SHALL INCLUDE LOCATING THE MAST ARM FOUNDATIONS AND VERIFYING THE MAST ARMS LENGTHS.
2. THE EXACT LOCATION OF ALL UTILITIES SHALL BE FIELD VERIFIED BY THE CONTRACTOR BEFORE ORDERING ANY MATERIALS AND STARTING ANY WORK. FOR LOCATIONS OF UTILITIES, LOCALLY OWNED EQUIPMENT, LEASED ENFORCEMENT CAMERA SYSTEM FACILITIES AND IDOT UNDERGROUND FACILITIES, CONTACT THE LOCAL COUNTIES, MUNICIPALITIES AND IDOT FOR LOCATES. THE CONTRACTOR SHALL CALL 'JULIE' AT (800) 892-0123 FOR FIELD LOCATIONS OF BURIED UTILITIES (48 HOURS NOTIFICATION REQUIRED).
3. THE CONTRACTOR SHALL CHECK THE PROPOSED TRAFFIC SIGNAL EQUIPMENT LOCATIONS FOR OVERHEAD UTILITY CONFLICTS. THE CONTRACTOR SHALL COORDINATED ANY CONFLICTS WITH THE UTILITY COMPANIES AND THE RESIDENT ENGINEER BEFORE ORDERING MATERIALS.
4. THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH UTILITY COMPANIES, LOCAL GOVERNMENT AGENCIES AND IDOT.
5. SEE SPECIAL PROVISION "WIRELESS VEHICLE DETECTION AND WARNING SYSTEM COMPLETE" FOR INFORMATION REGARDING THE VEHICLE DETECTION SYSTEM AT THIS LOCATION.
6. DETECTION ZONES SHALL BE DETERMINED IN THE FIELD BY A QUALIFIED SIGNAL TECHNICIAN.

FILE NAME : N:\PROJ\0803393\08\CONTRACT_2\Design\Supervis\0264883\ant\15ac2_41st_41DR.dgn

Ciorba Group, Inc.
 CONSULTING ENGINEERS
 6507 North Cumberland Avenue, Suite 402
 Chicago, Illinois 60656
 Tel. 773.776.4009 Fax 773.776.4014

USER NAME = espino	DESIGNED - EPS	REVISED -
	DRAWN - NT	REVISED -
PLOT SCALE = 48.0000 "/>		

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

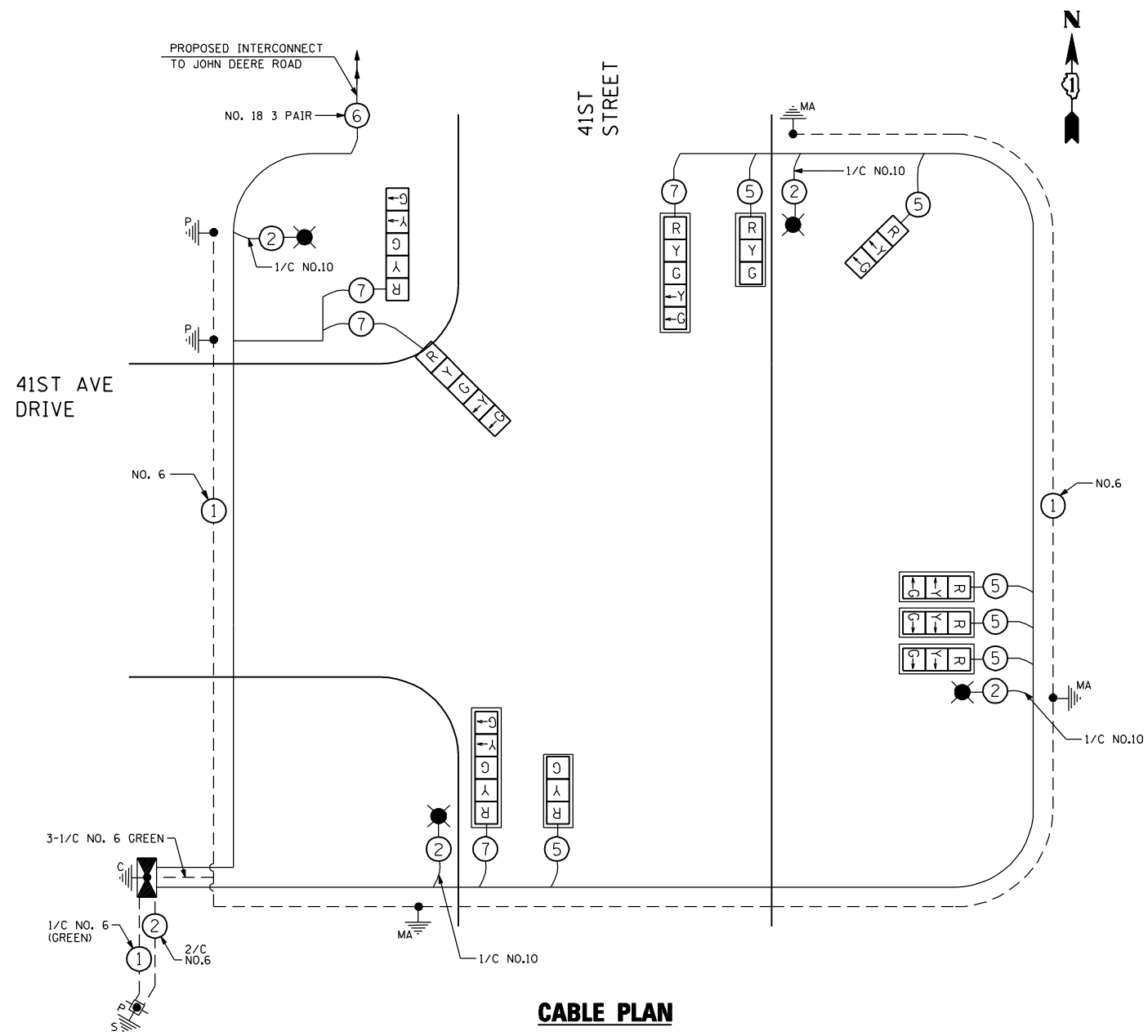
**JOHN DEERE ROAD RECONSTRUCTION
 41ST STREET AT 41ST AVENUE DRIVE
 TRAFFIC SIGNAL INSTALLATION PLAN**

SCALE: 1 : 20 SHEET NO. OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
595	(142-1, 142)R	ROCK ISLAND	1353	944
CONTRACT NO. 64B83				
ILLINOIS FED. AID PROJECT				

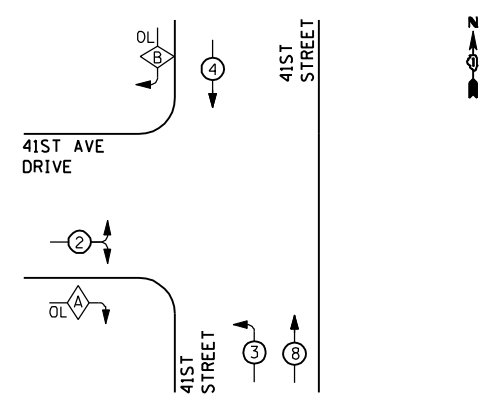
TABULATION OF QUANTITIES – 41ST STREET AT 41ST AVENUE DRIVE

ITEM	UNIT	QUANTITY
ROCK EXCAVATION	CU YD	1
SERVICE INSTALLATION, TYPE A	EACH	1
UNDERGROUND CONDUIT, COILABLE NONMETALLIC CONDUIT, 1 1/2" DIA.	FOOT	15
UNDERGROUND CONDUIT, COILABLE NONMETALLIC CONDUIT, 2 1/2" DIA.	FOOT	21
UNDERGROUND CONDUIT, COILABLE NONMETALLIC CONDUIT, 3" DIA.	FOOT	47
UNDERGROUND CONDUIT, COILABLE NONMETALLIC CONDUIT, 4" DIA.	FOOT	403
HANDHOLE, COMPOSITE CONCRETE	EACH	3
DOUBLE HANDHOLE, COMPOSITE CONCRETE	EACH	1
ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 10	FOOT	1688
LIGHT POLE, ALUMINUM, 30 FT. M.H., 12 FT. MAST ARM	EACH	1
LIGHT POLE FOUNDATION, METAL, 11 1/2" BOLT CIRCLE, 8 5/8" X 6'	EACH	1
BREAKAWAY DEVICE, TRANSFORMER BASE, 11.5 INCH BOLT CIRCLE	EACH	1
FULL-ACTUATED CONTROLLER AND TYPE IV CABINET	EACH	1
TRANSCEIVER	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	1410
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	857
ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C	FOOT	50
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	628
TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EACH	1
CONCRETE FOUNDATION, TYPE A	FOOT	4
CONCRETE FOUNDATION, TYPE D	FOOT	4
CONCRETE FOUNDATION, TYPE E 30-INCH DIAMETER	FOOT	18
CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	34.5
SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	1
SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED	EACH	5
SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED	EACH	2
SIGNAL HEAD, POLYCARBONATE, LED, 2-FACE, 5-SECTION, BRACKET MOUNTED	EACH	1
TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC	EACH	7
WIRELESS VEHICLE DETECTION AND WARNING SYSTEM COMPLETE	EACH	1
LUMINAIRE, LED, HORIZONTAL MOUNT, 180 WATT, 98 LED	EACH	4
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 42 FT. (SPECIAL)	EACH	1
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 38 FT. (SPECIAL)	EACH	1
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 46 FT. (SPECIAL)	EACH	1
MAINTENANCE OF EXISTING TEMPORARY TRAFFIC SIGNAL INSTALLATION	EACH	1
REMOVE EXISTING TEMPORARY TRAFFIC SIGNAL EQUIPMENT	EACH	1
TEMPORARY TRAFFIC SIGNAL INSTALLATION (SPECIAL)	EACH	1



CABLE PLAN

PROPOSED CONTROLLER SEQUENCE



PHASE DESIGNATION DIAGRAM

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

OVERLAP LETTER	PERMISSIVE PHASE	PROTECTED PHASE
A	= 2	+ 3
B	= 4	+ 2

FILE NAME: c:\p\proj\0803193\08\contract\2\design\signal\10264883-ant-15a3-41st-41pr.dgn

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USER NAME = jberendzen	DESIGNED - EPS	REVISED -
PLOT SCALE = 48.0000" / IN.	DRAWN - NT	REVISED -
PLOT DATE = 12/19/2014	CHECKED - DJO	REVISED -
	DATE - 12/19/2014	REVISED -

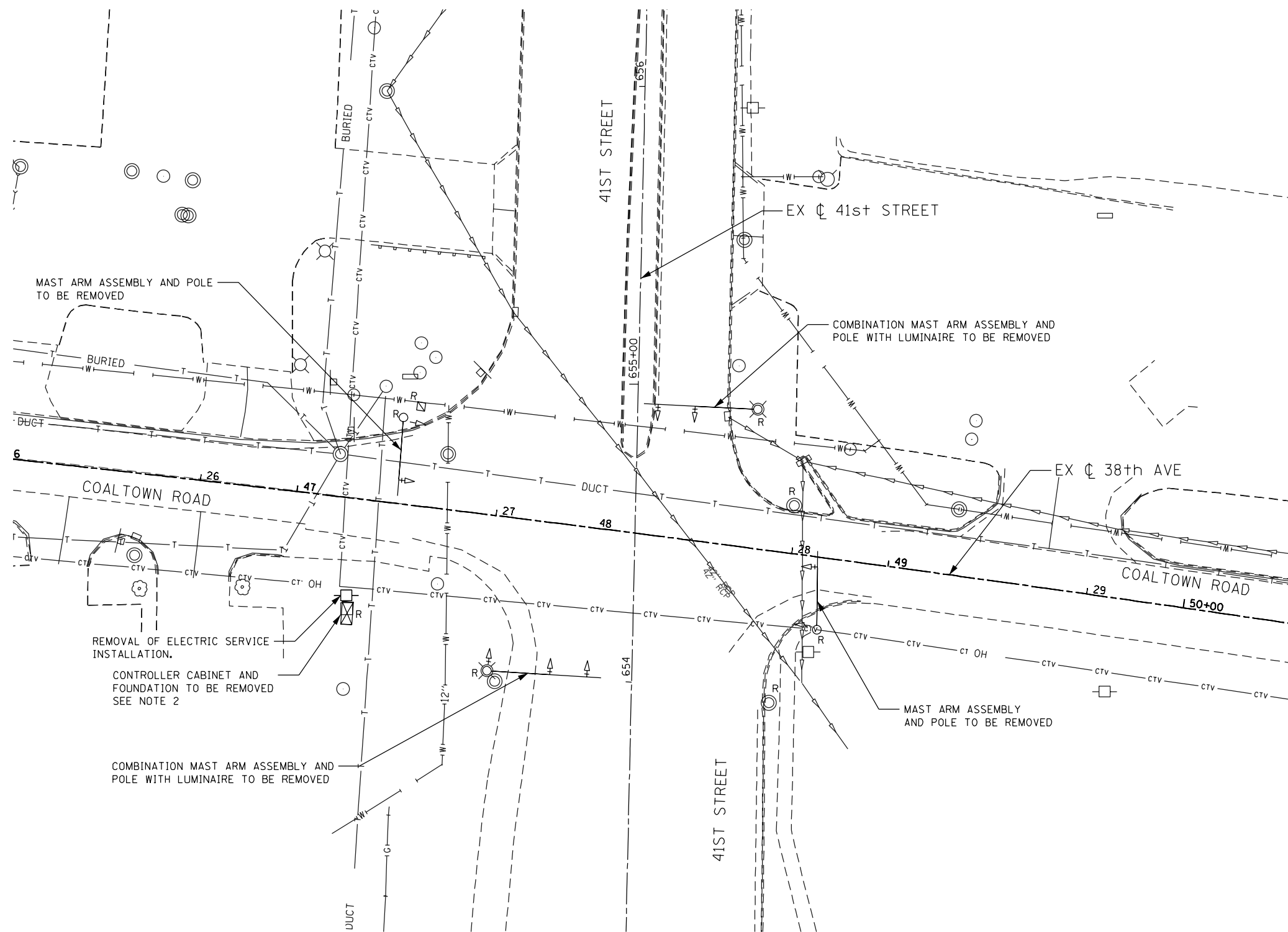
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

41ST STREET AT 41ST AVENUE DRIVE
CABLE PLAN, PHASE DESIGNATION DIAGRAM,
AND SCHEDULE OF QUANTITIES

F.A.P. RTE. 595	SECTION (142-1, 142)R	COUNTY ROCK ISLAND	TOTAL SHEETS 1353	SHEET NO. 945
CONTRACT NO. 64B83			ILLINOIS FED. AID PROJECT	

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

TRAFFIC SIGNAL REMOVAL PLAN



REMOVAL NOTES

1. THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR AND SHALL BE DISPOSED OF OUTSIDE OF THE RIGHT-OF-WAY. THE SALVAGE VALUE OF THE REMOVED EQUIPMENT SHALL BE REFLECTED IN THE CONTRACT BID PRICE. THIS WORK SHALL BE PAID FOR AS THE UNIT BID PRICE FOR REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT.
 - 2 EACH COMBINATION MAST ARM ASSEMBLY AND POLE
 - 2 EACH MAST ARM ASSEMBLY AND POLE
 - 9 EACH SIGNAL HEAD, 1-FACE, 3-SECTION
 - 2 EACH LUMINAIRE
 - 1 LSUM REMOVE ELECTRIC CABLE FROM CONDUIT

2. THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR AND DELIVERED AS LISTED BELOW. THIS WORK SHALL BE INCLUDED IN THE COST OF REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT.
 - 1 EACH CONTROLLER AND CABINET, COMPLETE (CITY OF MOLINE)



FILE NAME = P:\2011\ME11006.PTBI55-26_IL5_JDR_Corba\C2-JDR\Sheets\0264883-shr-TS51.rem_41st_38thAVE.dgn
 PLOT SCALE = 40/2000 in.
 USER NAME = Millennium Professional Services



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MILLENNIA PROFESSIONAL SERVICES

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DRAWN - TVN	REVISED -
CHECKED - MG	REVISED -
DATE - 12/18/2014	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

FAP 595 (JOHN DEERE ROAD)
38TH AVENUE AT 41ST STREET
TRAFFIC SIGNAL REMOVAL PLAN

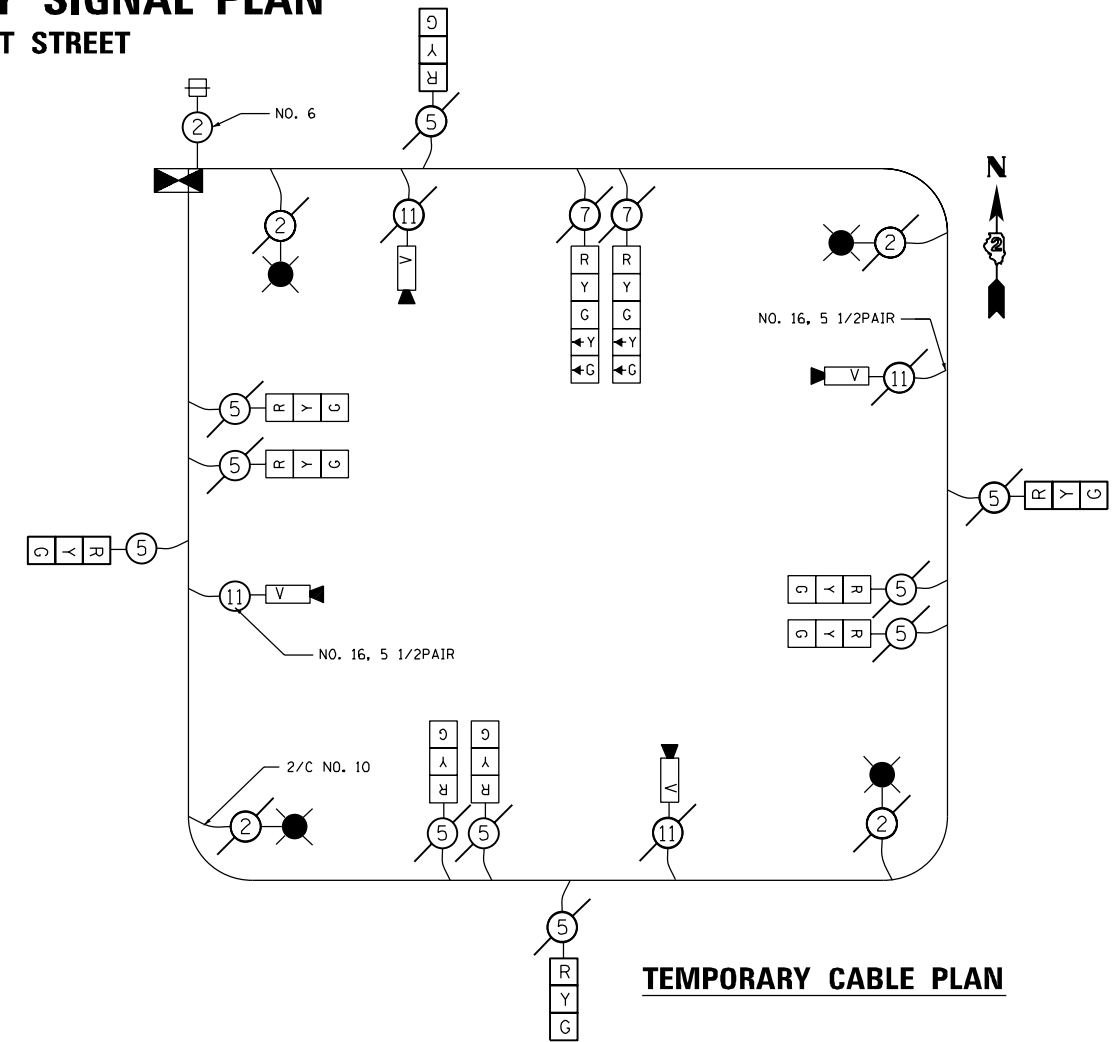
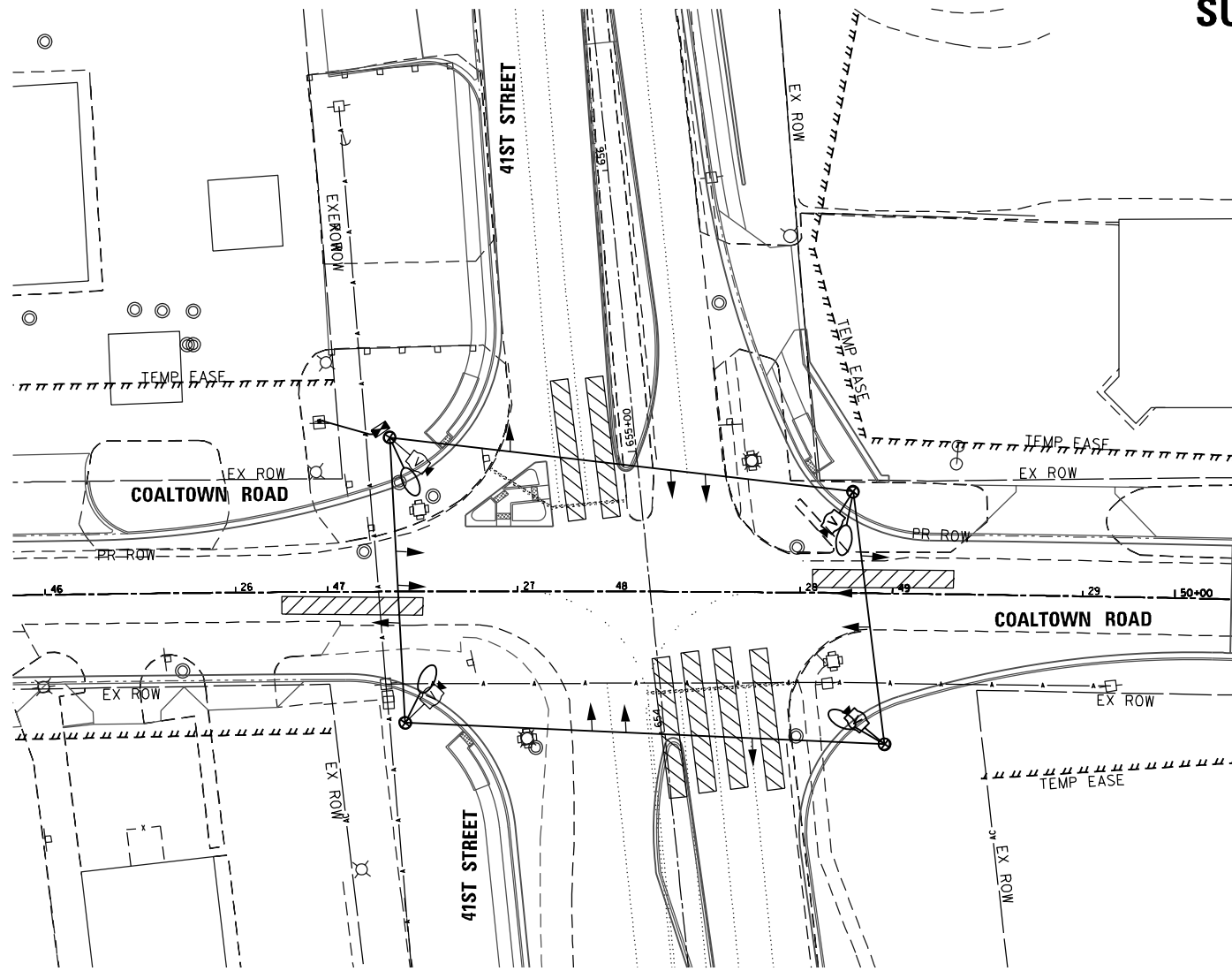
SCALE: 1"=20' SHEET NO. OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
595	(142-1, 142)R	ROCK ISLAND	1353	946
CONTRACT NO. 64883				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

TS5-1

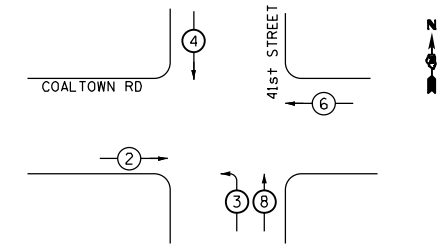
SUGGESTED TEMPORARY SIGNAL PLAN

COALTOWN ROAD AT 41ST STREET



TEMPORARY CABLE PLAN

TEMPORARY CONTROLLER SEQUENCE



PHASE DESIGNATION DIAGRAM

NOTES

1. ONLY AN APPROVED IDOT ELECTRICAL SUBCONTRACTOR WILL BE PERMITTED TO INSTALL AND ADJUST VEHICLE DETECTION SYSTEM AS REQUIRED BY STAGE/PHASE CHANGES.
2. STAGING OF TEMPORARY SIGNAL INSTALLATION SHALL BE APPROVED BY THE RESIDENT ENGINEER.
3. DETECTION ZONES SHALL BE DETERMINED IN THE FIELD BY A QUALIFIED SIGNAL TECHNICIAN.
4. RELOCATE EXISTING MAST ARM MOUNTED STREET NAME SIGNS TO THE TEMPORARY TRAFFIC SIGNAL SUPPORT. THIS WORK SHALL BE INCLUDED IN THE COST OF TEMPORARY TRAFFIC SIGNAL INSTALLATION.

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 PLOT SCALE = 60,0000
 USER NAME = Millennium Professional Services



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DRAWN - TVN	REVISED -
CHECKED - MG	REVISED -
DATE - 12/18/2014	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TEMPORARY SIGNALS PLAN
COALTOWN ROAD AT 41ST STREET**

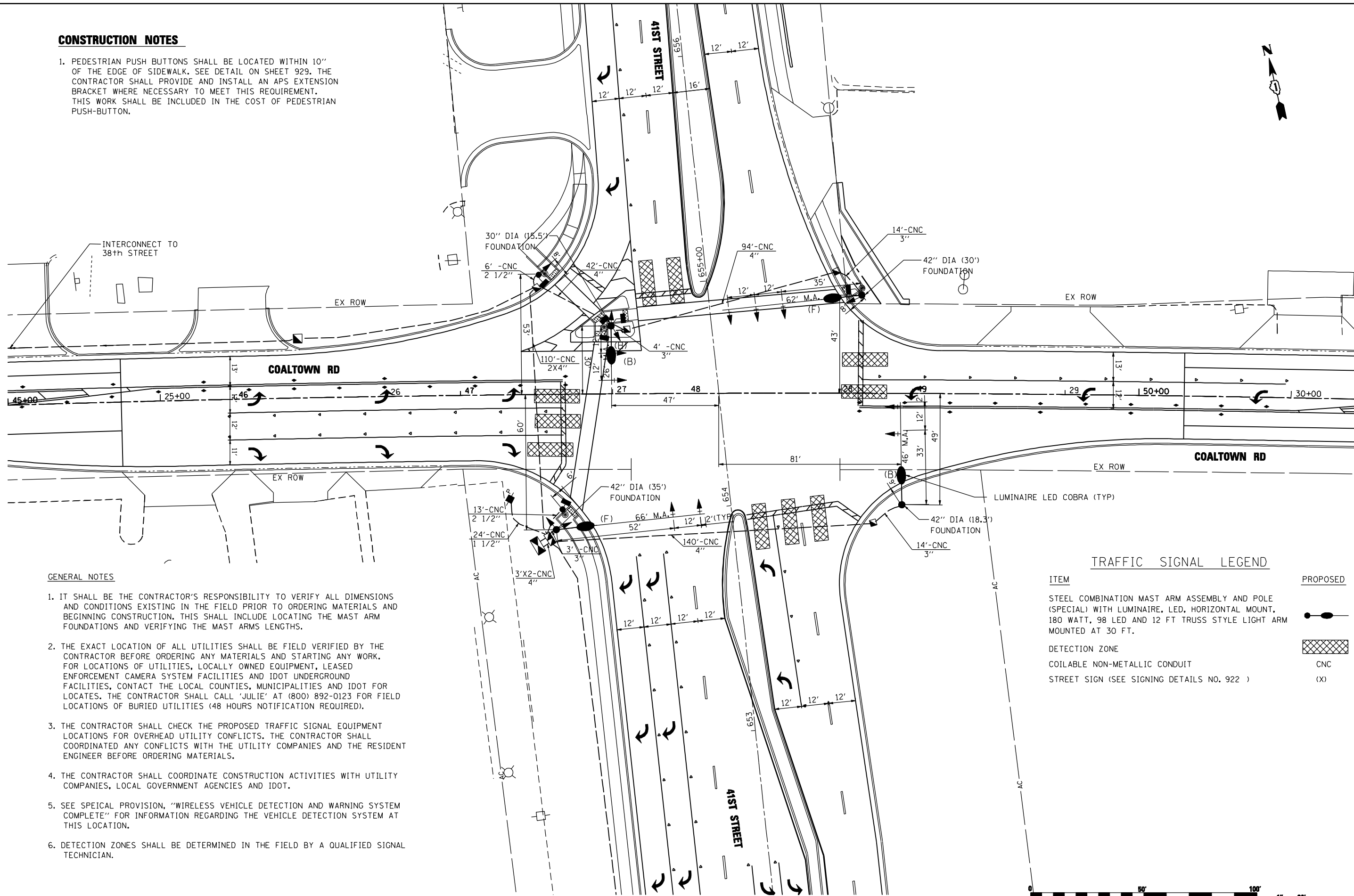
SCALE: 1"=30' SHEET NO. OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
595	(142-1, 142)R	ROCK ISLAND	1353	947
CONTRACT NO. 64B83				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

TS5-2

CONSTRUCTION NOTES

1. PEDESTRIAN PUSH BUTTONS SHALL BE LOCATED WITHIN 10" OF THE EDGE OF SIDEWALK. SEE DETAIL ON SHEET 929, THE CONTRACTOR SHALL PROVIDE AND INSTALL AN APS EXTENSION BRACKET WHERE NECESSARY TO MEET THIS REQUIREMENT. THIS WORK SHALL BE INCLUDED IN THE COST OF PEDESTRIAN PUSH-BUTTON.



GENERAL NOTES

1. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL DIMENSIONS AND CONDITIONS EXISTING IN THE FIELD PRIOR TO ORDERING MATERIALS AND BEGINNING CONSTRUCTION. THIS SHALL INCLUDE LOCATING THE MAST ARM FOUNDATIONS AND VERIFYING THE MAST ARMS LENGTHS.
2. THE EXACT LOCATION OF ALL UTILITIES SHALL BE FIELD VERIFIED BY THE CONTRACTOR BEFORE ORDERING ANY MATERIALS AND STARTING ANY WORK. FOR LOCATIONS OF UTILITIES, LOCALLY OWNED EQUIPMENT, LEASED ENFORCEMENT CAMERA SYSTEM FACILITIES AND IDOT UNDERGROUND FACILITIES, CONTACT THE LOCAL COUNTIES, MUNICIPALITIES AND IDOT FOR LOCATES. THE CONTRACTOR SHALL CALL 'JULIE' AT (800) 892-0123 FOR FIELD LOCATIONS OF BURIED UTILITIES (48 HOURS NOTIFICATION REQUIRED).
3. THE CONTRACTOR SHALL CHECK THE PROPOSED TRAFFIC SIGNAL EQUIPMENT LOCATIONS FOR OVERHEAD UTILITY CONFLICTS. THE CONTRACTOR SHALL COORDINATED ANY CONFLICTS WITH THE UTILITY COMPANIES AND THE RESIDENT ENGINEER BEFORE ORDERING MATERIALS.
4. THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH UTILITY COMPANIES, LOCAL GOVERNMENT AGENCIES AND IDOT.
5. SEE SPEICAL PROVISION, "WIRELESS VEHICLE DETECTION AND WARNING SYSTEM COMPLETE" FOR INFORMATION REGARDING THE VEHICLE DETECTION SYSTEM AT THIS LOCATION.
6. DETECTION ZONES SHALL BE DETERMINED IN THE FIELD BY A QUALIFIED SIGNAL TECHNICIAN.

TRAFFIC SIGNAL LEGEND

ITEM	PROPOSED
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE (SPECIAL) WITH LUMINAIRE, LED, HORIZONTAL MOUNT, 180 WATT, 98 LED AND 12 FT TRUSS STYLE LIGHT ARM MOUNTED AT 30 FT.	
DETECTION ZONE	
COILABLE NON-METALLIC CONDUIT	CNC
STREET SIGN (SEE SIGNING DETAILS NO. 922)	(X)



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 USER: JMS
 DATE: 7/13/2015



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DRAWN -	#DBS1	REVISED -	
CHECKED -	#BEBK1	REVISED -	
DATE -	7/13/2015	REVISED -	

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**FAP 595 (JOHN DEERE ROAD)
 COALTOWN ROAD AT 41ST STREET
 TRAFFIC SIGNAL INSTALLATION PLAN**

SCALE: #SCALE20 SHEET NO. OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
595	(142-1, 142)R	ROCK ISLAND	1353	948
			CONTRACT NO. 64883	

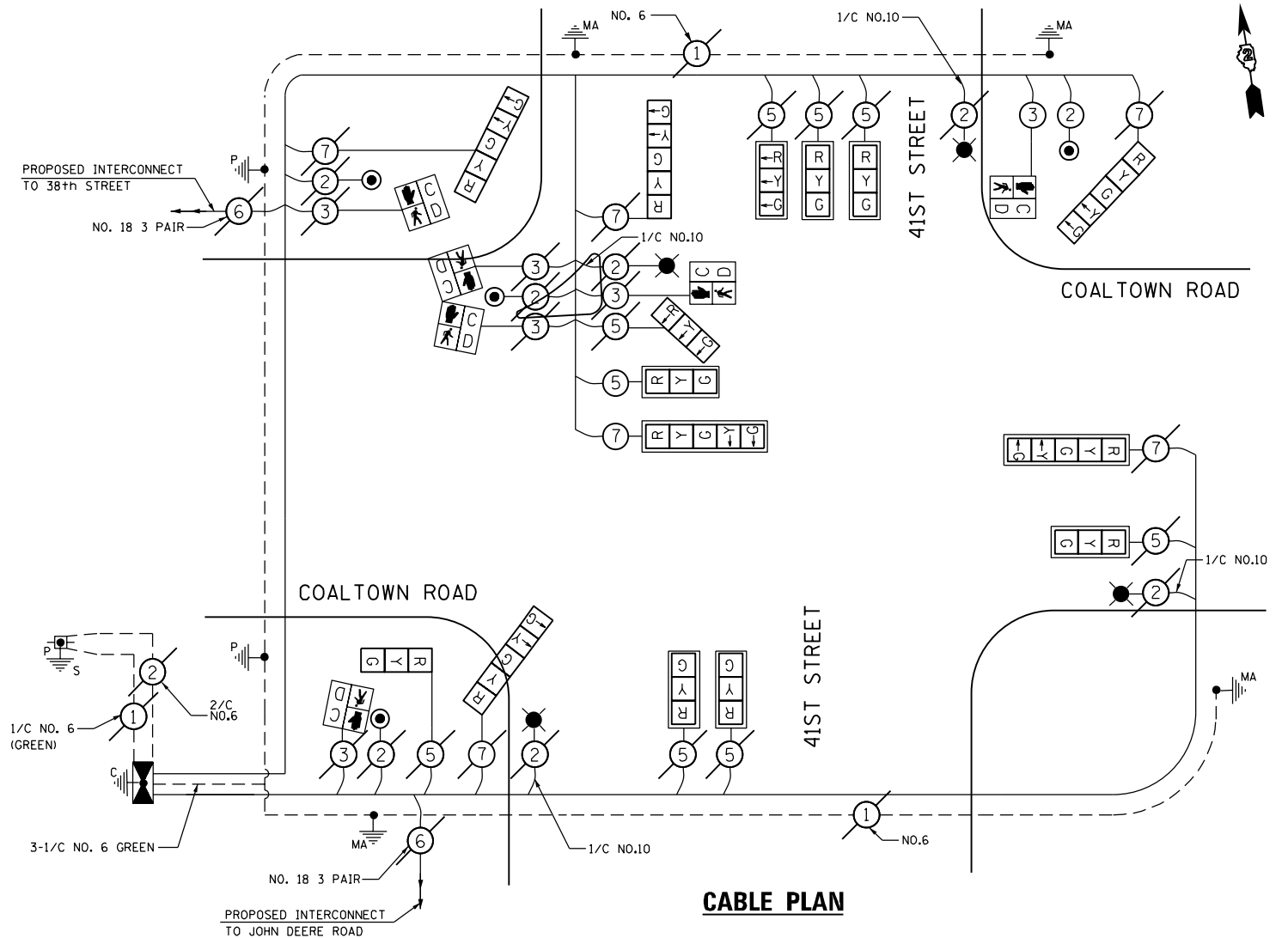
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT

TS5-3

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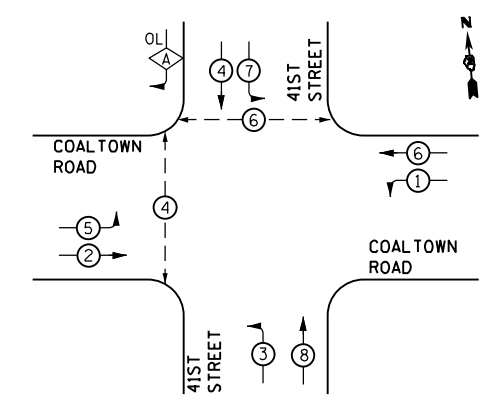
TABULATION OF QUANTITIES – COALTOWN ROAD AT 41ST STREET

ITEM	UNIT	QUANTITY
ROCK EXCAVATION FOR STRUCTURES	CU YD	3.2
SIGN PANEL - TYPE 2	SQ FT	52
SERVICE INSTALLATION, TYPE A	EACH	1
UNDERGROUND CONDUIT, COILABLE NONMETALLIC CONDUIT, 1 1/2" DIA.	FOOT	24
UNDERGROUND CONDUIT, COILABLE NONMETALLIC CONDUIT, 2 1/2" DIA.	FOOT	19
UNDERGROUND CONDUIT, COILABLE NONMETALLIC CONDUIT, 3" DIA.	FOOT	28
UNDERGROUND CONDUIT, COILABLE NONMETALLIC CONDUIT, 4" DIA.	FOOT	392
HANDHOLE, COMPOSITE CONCRETE	EACH	4
DOUBLE HANDHOLE, COMPOSITE CONCRETE	EACH	1
ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 10	FOOT	946
FULL-ACTUATED CONTROLLER AND TYPE IV CABINET	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL, NO. 14 2C	FOOT	685
ELECTRIC CABLE IN CONDUIT, SIGNAL, NO. 14 3C	FOOT	920
ELECTRIC CABLE IN CONDUIT, SIGNAL, NO. 14 5C	FOOT	2013
ELECTRIC CABLE IN CONDUIT, SIGNAL, NO. 14 7C	FOOT	1199
ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C	FOOT	110
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	527
TRAFFIC SIGNAL POST, GALVANIZED STEEL 10 FT.	EACH	1
TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EACH	1
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 26 FT. (SPECIAL)	EACH	1
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 46 FT. (SPECIAL)	EACH	1
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 62 FT. (SPECIAL)	EACH	1
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 66 FT. (SPECIAL)	EACH	1
CONCRETE FOUNDATION, TYPE A	FOOT	8
CONCRETE FOUNDATION, TYPE D	FOOT	4
CONCRETE FOUNDATION, TYPE E 30-INCH DIAMETER	FOOT	15.5
CONCRETE FOUNDATION, TYPE E 42-INCH DIAMETER	FOOT	83.3
SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	7
SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	2
SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED	EACH	2
SIGNAL HEAD, POLYCARBONATE, LED, 2-FACE, 1-3-SECTION, 1-5-SECTION, BRACKET MOUNTED	EACH	2
PEDESTRIAN SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, BRACKET MOUNTED WITH COUNT DOWN TIMER	EACH	4
PEDESTRIAN SIGNAL HEAD, POLYCARBONATE, LED, 2-FACE, BRACKET MOUNTED WITH COUNT DOWN TIMER	EACH	1
TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC	EACH	10
PEDESTRIAN PUSH-BUTTON	EACH	4
TEMPORARY TRAFFIC SIGNAL INSTALLATION	EACH	1
DISPOSITION OF SALVAGED TRAFFIC SIGNAL EQUIPMENT	L SUM	0.2
WIRELESS VEHICLE DETECTION AND WARNING SYSTEM COMPLETE	EACH	1
LUMINAIRE, LED, HORIZONTAL MOUNT, 180 WATT, 98 LED	EACH	4



CABLE PLAN

PROPOSED CONTROLLER SEQUENCE



PHASE DESIGNATION DIAGRAM

FILE NAME = P:\2011\ME11008.PT155-26.IL5.JDR-Corbo\C2-JDR\Sheets\0264883-sht-T554.Cool.41st.dgn
 PLOT SCALE = 40/2000
 USER NAME = Millennia Professional Services



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DRAWN - TVN	REVISED -
CHECKED - MG	REVISED -
DATE - 12/18/2014	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**COALTOWN ROAD AT 41ST STREET
 CABLE PLAN, PHASE DESIGNATION DIAGRAM,
 AND SCHEDULE OF QUANTITIES**

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

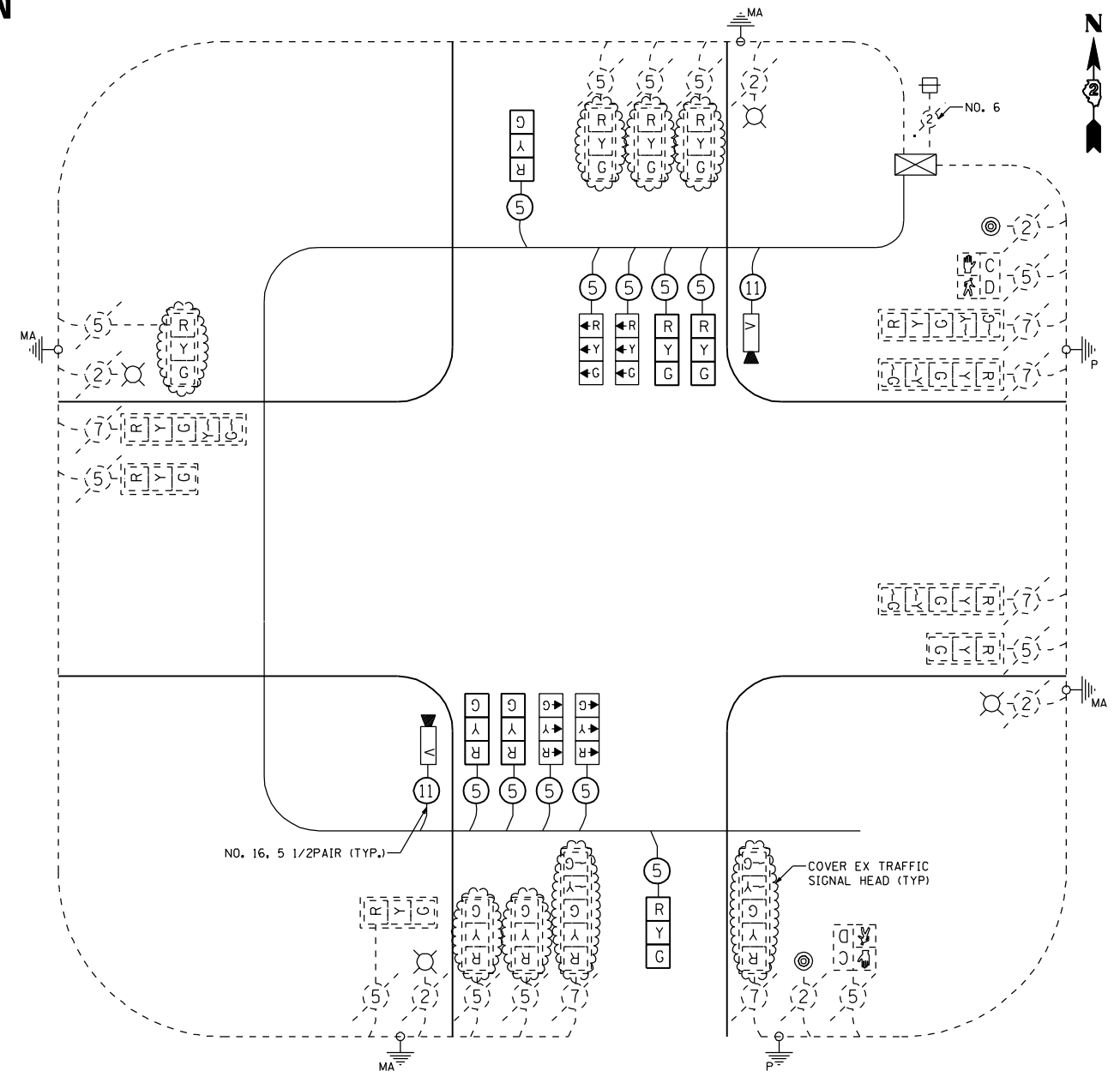
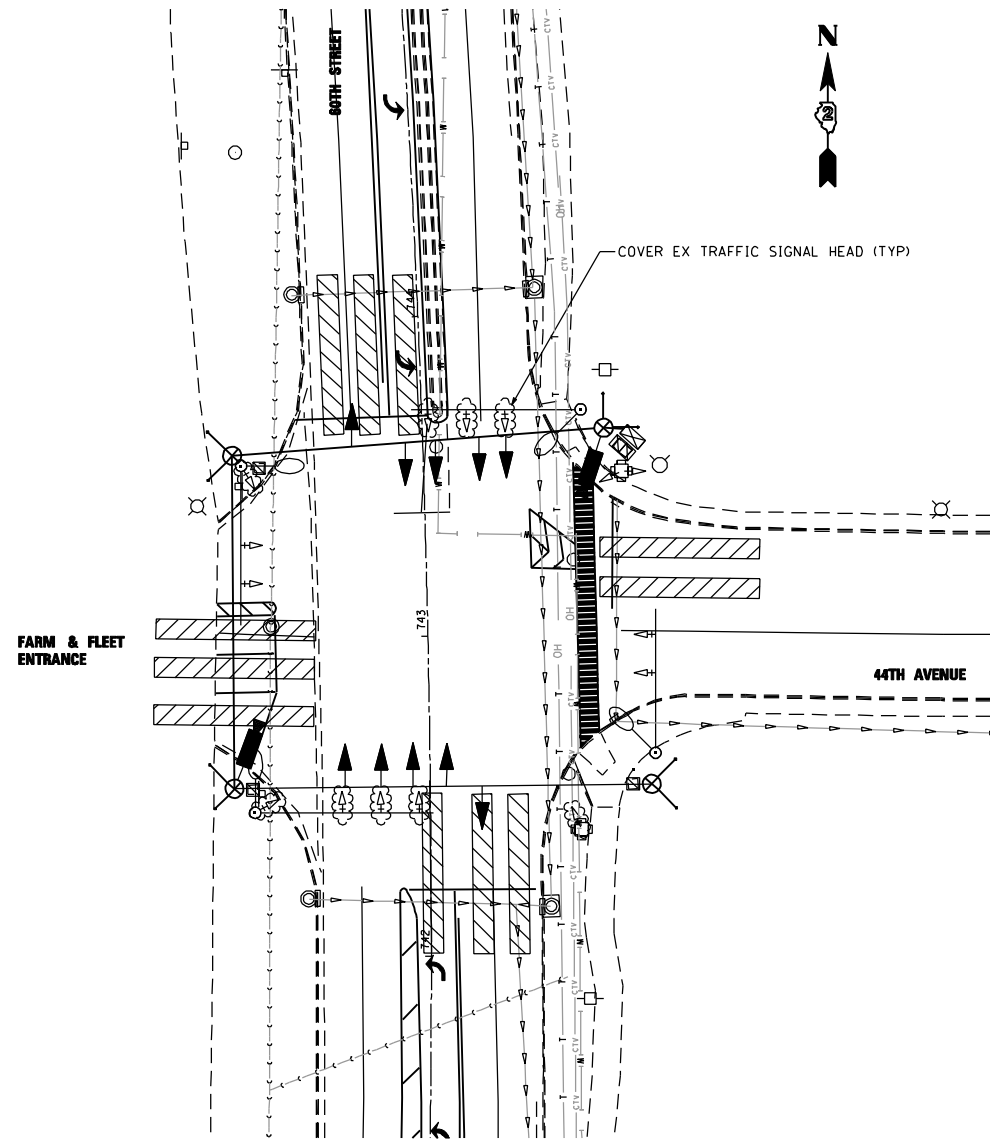
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
595	(142-1, 142R)	ROCK ISLAND	1353	949
CONTRACT NO. 64B83				

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

T55-4

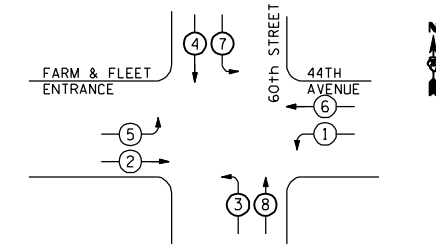
SUGGESTED TEMPORARY SIGNAL PLAN

60TH STREET AT 44TH AVENUE



TEMPORARY CABLE PLAN

TEMPORARY CONTROLLER SEQUENCE



PHASE DESIGNATION DIAGRAM

NOTES

- 1.) ONLY AN APPROVED IDOT ELECTRICAL SUBCONTRACTOR WILL BE PERMITTED TO INSTALL AND ADJUST VEHICLE DETECTION SYSTEM AS REQUIRED BY STAGE/PHASE CHANGES.
- 2.) STAGING OF TEMPORARY SIGNAL INSTALLATION SHALL BE APPROVED BY THE RESIDENT ENGINEER.
- 3.) THE EXISTING SIGNALS SHALL BE BAGGED AND REMAIN IN PLACE UNTIL COMPLETION OF STAGE 2B, AT WHICH TIME, TEMPORARY TRAFFIC SIGNALS WILL NO LONGER BE REQUIRED.
- 4.) DETECTION ZONES SHALL BE DETERMINED IN THE FIELD BY A QUALIFIED TECHNICIAN.

FILE NAME: c:\p\proj\080319108\contract\2\design\signal\10244883-nt-15b1.6851.44AV.dgn

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 6507 North Cumberland Avenue, Suite 402
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USER NAME = jberendzen	DESIGNED - EPS	REVISED -
	DRAWN - NT	REVISED -
PLOT SCALE = 68.0000" / IN.	CHECKED - DJO	REVISED -
PLOT DATE = 12/19/2014	DATE - 12/19/2014	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**JOHN DEERE ROAD RECONSTRUCTION
 60th STREET AT 44th AVENUE
 TEMPORARY SIGNAL PLAN**

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
595	(142-1, 142)R	ROCK ISLAND	1353	950
CONTRACT NO. 64B83			ILLINOIS FED. AID PROJECT	

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



SOIL BORING LOG

ROUTE FAP 595 DESCRIPTION D92-003-06 x traffic signals, John Deere Road Intersection with 41st Street LOGGED BY W. Garza
 SECTION (142-1, 142) R LOCATION S. Moline Twp. - 10SE, SEC., TWP. 17N, RNG. 1W
 COUNTY Rock Island DRILLING METHOD Hollow Stem Auger HAMMER TYPE CME-45 Automatic

STRUCT. NO.	DEPTHS	UCS	M	Surface Water Elev.	DEPTHS	UCS	M
Station	ft	(/ft)	(tsf)	ft	ft	(/ft)	(tsf)
BORING NO. <u>B-1g</u>							
Station <u>650+77</u>							
Offset <u>65.00R Rt</u>							
Ground Surface Elev. <u>581.5</u>							
MEDIUM brown SILTY CLAY LOAM		0.6	17				
		P			560.00		
VERY STIFF brown SILTY CLAY LOAM	579.50	4					
		3.5	20				
	578.00	5			568.00		
VERY STIFF light brown SILTY CLAY LOAM		3					
		5	2.3				
	576.50	7					
STIFF light brown SILTY CLAY LOAM		3					
		4	1.3				
	573.00						
MEDIUM gray SILTY CLAY LOAM		2					
		2	0.7				
	570.50	3					
VERY SOFT tan SILTY LOAM		1					
		1	0.2				
	568.00	2					
MEDIUM gray SILTY CLAY		2					
		2	0.7				
	565.50						
MEDIUM gray SILTY CLAY with 11% ORGANICS		1					
		2	0.5				
	563.00						
		0					

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
 The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206) BBS, from 137 (Rev. 8-99)



SOIL BORING LOG

ROUTE FAP 595 DESCRIPTION D92-003-06 x traffic signals, John Deere Road Intersection with 41st Street LOGGED BY W. Garza
 SECTION (142-1, 142) R LOCATION S. Moline Twp. - 10SE, SEC., TWP. 17N, RNG. 1W
 COUNTY Rock Island DRILLING METHOD Hollow Stem Auger HAMMER TYPE CME-45 Automatic

STRUCT. NO.	DEPTHS	UCS	M	Surface Water Elev.	DEPTHS	UCS	M
Station	ft	(/ft)	(tsf)	ft	ft	(/ft)	(tsf)
BORING NO. <u>B-2g</u>							
Station <u>649+11</u>							
Offset <u>84.00R Lt CL</u>							
Ground Surface Elev. <u>578.3</u>							
STIFF brown SILTY CLAY LOAM							
			1.3				18
			P				
STIFF brown SILTY CLAY LOAM	576.30	2					
		3	1.0				19
	574.80	4					
MEDIUM light brown LOAM		2					
		3	0.8				23
	572.30	4					
SOFT light brown LOAM		0					
		1	0.3				27
	569.30	3					
VERY DENSE light brown dry CLAY		2					
			100/8'				
	567.30						
VERY DENSE light gray DOLOMITE			100/1'				
					564.80		
End of Boring							

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
 The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206) BBS, from 137 (Rev. 8-99)



SOIL BORING LOG

ROUTE FAP 595 DESCRIPTION D92-004-06 Proposed traffic signal at John Deere Road @ 53rd Street, NE Quadrant LOGGED BY W. Garza
 SECTION 142-R LOCATION S. Moline Twp. - 14NW, SEC., TWP. 17N, RNG. 1W
 COUNTY Rock Island DRILLING METHOD Hollow Stem Auger HAMMER TYPE CME-45 Automatic

STRUCT. NO.	DEPTHS	UCS	M	Surface Water Elev.	DEPTHS	UCS	M
Station	ft	(/ft)	(tsf)	ft	ft	(/ft)	(tsf)
BORING NO. <u>B-1d</u>							
Station <u>701+02</u>							
Offset <u>74.00R Rt</u>							
Ground Surface Elev. <u>588.5</u>							
MEDIUM brown SILTY CLAY LOAM		0.8					19
		P					
MEDIUM light brown SILTY CLAY	586.50	3					
		3	0.5				25
	585.00	4					
SOFT tan/light gray SILTY LOAM		1					
		3	0.3				29
	582.50	4					
SOFT light gray SILT with SAND lens		0					
		2	0.3				26
	580.00	3					
SOFT light gray SILT		2					
		4	0.3				26
	577.50	6					
HARD gray SHALE/CLAY		5					
		3	4.2				19
	574.50	7					
VERY DENSE gray SHALE		17					
			100/9'				
	572.50						
End of Boring							

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
 The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206) BBS, from 137 (Rev. 8-99)

FILE NAME = P:\2011\ME11008_PTB155-26_IL5_JDR_Ciorba\C2-JDR\Sheets\0264883-sht-TS01SBor.rtg.dgn
 PLOT SCALE = 2:20000 / 1" = 100'
 USER NAME = millennia Professional Services



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DATE - 12/18/2014	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

FAP 595 (JOHN DEERE ROAD)			
TRAFFIC SIGNAL SOIL BORING LOGS			
SCALE: N/A	SHEET NO. OF SHEETS	STA. TO STA.	

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
595	(142-1, 142)R	ROCK ISLAND	1353	951
CONTRACT NO. 64B83				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

SBOR-01



Illinois Department of Transportation
Division of Highways
Illinois Department of Transportation

SOIL BORING LOG

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ROUTE FAP 595 DESCRIPTION D92-004-06 Proposed traffic signal at John Deere Road and 60th Street LOGGED BY W. Garza
SECTION 142-R LOCATION S. Moline Twp. - 11SE, SEC., TWP. 17N, RNG. 1W
COUNTY Rock Island DRILLING METHOD Hollow Stem Auger HAMMER TYPE CME-45 Automatic

STRUCT. NO.	DEPTH	DESCRIPTION	U	M	Surface Water Elev.	Stream Bed Elev.	Groundwater Elev.	First Encounter	Upon Completion	After
Station	ft	(ft) (ft) (ft) (%)	(ft)	(%)	ft	ft	ft	ft	ft	ft
12" Concrete										
VERY STIFF gray SILTY LOAM	584.00	6 2.5 17								
VERY STIFF black SILTY CLAY LOAM	582.50	3 2.1 24								
STIFF gray SILTY CLAY LOAM	580.00	3 1.9 22								
LOOSE gray fine SAND	587.00	2 1 4								
LOOSE tan fine SAND	585.00	0 2 3								
VERY LOOSE tan fine SAND	582.50	1 2 2								
VERY LOOSE tan fine SAND	579.50	1 2 2								
VERY DENSE light gray weathered SHALE	577.50	100/4'								
End of Boring										

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206) BBS, from 137 (Rev. 8-99)



Illinois Department of Transportation
Division of Highways
Illinois Department of Transportation

SOIL BORING LOG

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ROUTE FAP 595 DESCRIPTION D92-004-06 Proposed traffic signal at John Deere Road @ 70th Street LOGGED BY W. Garza
SECTION 142-R LOCATION S. Moline Twp. - 12SW, SEC., TWP. 17N, RNG. 1W
COUNTY Rock Island DRILLING METHOD Hollow Stem Auger HAMMER TYPE CME 45 Automatic

STRUCT. NO.	DEPTH	DESCRIPTION	U	M	Surface Water Elev.	Stream Bed Elev.	Groundwater Elev.	First Encounter	Upon Completion	After
Station	ft	(ft) (ft) (ft) (%)	(ft)	(%)	ft	ft	ft	ft	ft	ft
MEDIUM brown SILTY CLAY LOAM			0.5	17						
STIFF tan SILTY LOAM	591.10	11 1.8 15								
VERY STIFF dark gray SILTY LOAM	589.60	4 2.5 20								
MEDIUM light brown SILTY CLAY	587.10	3 4 0.8 22								
MEDIUM tan SILTY CLAY	584.60	2 2 0.7 26								
VERY SOFT tan SILTY LOAM	582.10	1 2 0.2 28								
SOFT tan SILTY LOAM with SAND lens	579.60	1 2 0.4 28								
MEDIUM light gray SILT	577.10	1 1 0.6 27								
VERY SOFT light gray SILT	574.60	3								
VERY SOFT light gray SILT										

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206) BBS, from 137 (Rev. 8-99)



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Illinois Department of Transportation

SOIL BORING LOG

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ROUTE FAP 595 DESCRIPTION D92-004-06 Proposed traffic signal at John Deere Road @ 70th Street LOGGED BY W. Garza
SECTION 142-R LOCATION S. Moline Twp. - 12SW, SEC., TWP. 17N, RNG. 1W
COUNTY Rock Island DRILLING METHOD Hollow Stem Auger HAMMER TYPE CME-45 Automatic

STRUCT. NO.	DEPTH	DESCRIPTION	U	M	Surface Water Elev.	Stream Bed Elev.	Groundwater Elev.	First Encounter	Upon Completion	After
Station	ft	(ft) (ft) (ft) (%)	(ft)	(%)	ft	ft	ft	ft	ft	ft
VERY SOFT brown SILTY CLAY LOAM			0.2	14						
VERY STIFF brown SILTY CLAY LOAM	586.50	7 7 2.9 18								
STIFF brown SILTY CLAY LOAM	584.00	2 4 1.3 22								
STIFF tan SILT	581.50	2 5 1.0 20								
VERY STIFF tan SILT	589.00	4 5 2.1 22								
VERY DENSE gray SHALE	586.00									
VERY DENSE gray SHALE	584.00	29 24 61								
VERY DENSE gray SHALE	581.50	00/13'								
End of Boring										

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206) BBS, from 137 (Rev. 8-99)

FILE NAME = P:\2011\ME11008.PT155-26.1L5-JDR_Ciorba\C2-JDR\Sheets\0264B83-sht-TS025Bor-rg.dgn
PLOT SCALE = 2:0000 / 1" = 100'-0"
USER NAME = JDR



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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**FAP 595 (JOHN DEERE ROAD)
TRAFFIC SIGNAL SOIL BORING LOGS**

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
595	(142-1, 142R)	ROCK ISLAND	1353	952
CONTRACT NO. 64B83				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

SBOR-02

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SOIL BORING LOG

ROUTE FAP 595 DESCRIPTION D92-003-06 x traffic signals, NE quad of 38th Avenue & 41st Street in Moline LOGGED BY W. Garza
 SECTION (142-1, 142) R LOCATION SEC., TWP., RNG.
 COUNTY Rock Island DRILLING METHOD Hollow Stem Auger HAMMER TYPE CME-45 Automatic

STRUCT. NO. Station	BORING NO. Station	DEPTH ft	BLOW COUNT (#6")	UNSATURATED PENETRATION (tsf)	MOISTURE (%)	Surface Water Elev.		Stream Bed Elev.		DEPTH ft	BLOW COUNT (#6")	UNSATURATED PENETRATION (tsf)	MOISTURE (%)
						ft	ft	ft	ft				
	B-1h 654+75 25.00ft R/NB CL	593.1											
		591.10	6	1.1 P	23					572.10	5	2.3 B	24
		589.60	7	2.8 P	17					566.60	10	3.1 B	21
		587.10	2	1.0 P	22					566.60	7	2.9 B	20
		584.60	3	1.9 B	24					564.60	12	2.8 S	21
		582.10	4	1.2 B	22					562.10	14	28	
		579.60	4	1.0 B	23					559.60	100/8'		
		577.10	3	0.5 B	26								
		574.60	1	0.7 B	32								
			3										

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
 The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206) BBS, from 137 (Rev. 8-99)



SOIL BORING LOG

ROUTE FAP 595 DESCRIPTION D92-003-06 x traffic signals, NE quad of 38th Avenue & 41st Street in Moline LOGGED BY W. Garza
 SECTION (142-1, 142) R LOCATION SEC., TWP., RNG.
 COUNTY Rock Island DRILLING METHOD Hollow Stem Auger HAMMER TYPE CME-45 Automatic

STRUCT. NO. Station	BORING NO. Station	DEPTH ft	BLOW COUNT (#6")	UNSATURATED PENETRATION (tsf)	MOISTURE (%)	Surface Water Elev.		Stream Bed Elev.		DEPTH ft	BLOW COUNT (#6")	UNSATURATED PENETRATION (tsf)	MOISTURE (%)
						ft	ft	ft	ft				
	B-2h 654+00 65.00ft LI	587.1											
		585.10	2	0.6 B	22					566.10	2	0.4 B	33
		583.60	3	0.6 B	22					563.60	1	0.3 P	37
		581.10	3	1.3 B	22					561.10	1	0.6 B	33
		578.60	2	0.3 P	28					558.10	2	1.1 P	29
		576.10	1	0.4 B	27					556.10	0	100/8'	
		573.60	2	0.5 B	26								
		571.10	0	0.7 B	26								
		568.60	1	0.4 P	29								
			0										

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
 The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206) BBS, from 137 (Rev. 8-99)

FILE NAME: P:\2011\ME11008.PT155-26.1L5-JDR_Ciorba\C2-JDR_Sheets\0264B83-sht-TS035Bor.rng.dgn
 PLOT SCALE: 2:2000 / 1" = 100'
 USER: ME



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STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

FAP 595 (JOHN DEERE ROAD)	
TRAFFIC SIGNAL SOIL BORING LOGS	
SCALE: N/A	SHEET NO. OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
595	(142-1, 142)R	ROCK ISLAND	1353	953
CONTRACT NO. 64B83				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

SBOR-03

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Division of Highways
Illinois Department of Transportation

SOIL BORING LOG

Page 1 of 1

Date 3/23/12

ROUTE FAP 595 DESCRIPTION D92-003-06 x traffic signals, 41st Street, 300' S. of 44th Avenue, West Side LOGGED BY J. Stratling
SECTION (142-1, 142) R LOCATION S. Moline Twp. - 15NE, SEC., TWP. 17N, RNG. 1W
COUNTY Rock Island DRILLING METHOD Hollow Stem Auger HAMMER TYPE CME-45 Automatic

STRUCT. NO.	DEPTH	DESCRIPTION	UCS	M	Surface Water Elev.	Stream Bed Elev.
					ft	ft
BORING NO. <u>B-1f</u>					Groundwater Elev.:	
Station <u>641+48</u>					First Encounter <u>567.3</u> ft	
Offset <u>41.00ft L/SB CL</u>					Upon Completion	
Ground Surface Elev. <u>571.8</u> ft					After	
	(ft)	(ft)	(tsf)	(%)		
MEDIUM brown SILTY CLAY LOAM			0.5 P	14		
	569.80					
MEDIUM brown/gray SILTY CLAY LOAM			0.5 P	28		
	568.30					
SOFT brown/gray SILTY LOAM			0.3 P	31		
	565.80					
MEDIUM dark gray SILTY CLAY LOAM with 12% ORGANICS			0.7 B	52		
	563.30					
SOFT gray SILTY CLAY with ORGANICS			0.3 B	47		
	560.80					
SOFT brown/gray SILTY CLAY with 20% ORGANICS			0.4 B	100		
	558.30					
Wash No Recovery (gray/medium clean SAND?)						
	555.30					
Wash VERY DENSE tan/gray weathered LIMESTONE Auger Refusal at 18.5'						
	553.30					
End of Boring						
	-20					

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206) BBS, from 137 (Rev. 8-99)



Illinois Department of Transportation
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SOIL BORING LOG

Page 1 of 1

Date 3/23/12

ROUTE FAP 595 DESCRIPTION D92-003-06 x traffic signals, 41st Street, 300' S. of 44th Avenue, West Side LOGGED BY J. Stratling
SECTION (142-1, 142) R LOCATION S. Moline Twp. - 15NE, SEC., TWP. 17N, RNG. 1W
COUNTY Rock Island DRILLING METHOD Hollow Stem Auger HAMMER TYPE CME-45 Automatic

STRUCT. NO.	DEPTH	DESCRIPTION	UCS	M	Surface Water Elev.	Stream Bed Elev.
					ft	ft
BORING NO. <u>B-2f</u>					Groundwater Elev.:	
Station <u>642+68</u>					First Encounter <u>548.5</u> ft	
Offset <u>35.00ft east of NB CL</u>					Upon Completion	
Ground Surface Elev. <u>563.0</u> ft					After	
	(ft)	(ft)	(tsf)	(%)		
MEDIUM brown SILTY CLAY LOAM			0.5 P	23		
	561.00					
MEDIUM gray/brown SILTY CLAY LOAM			1.0 P	28		
	559.50					
SOFT gray/brown SILTY LOAM			0.3 P	35		
	557.00					
MEDIUM dark gray SILTY CLAY			0.6 B	34		
	554.50					
SOFT gray/brown SILTY CLAY			0.4 B	56		
	552.00					
VERY SOFT gray SANDY LOAM			0.2 P	50		
	549.00					
LOOSE gray clean medium SAND						
	546.50					
VERY DENSE tan/gray weathered LIMESTONE Auger Refusal at 18.5'						
	544.50					
End of Boring						
	-20					

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206) BBS, from 137 (Rev. 8-99)

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USER NAME = jstratling



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DEPARTMENT OF TRANSPORTATION

FAP 595 (JOHN DEERE ROAD)	
TRAFFIC SIGNAL SOIL BORING LOGS	
SCALE: N/A	SHEET NO. OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
595	(142-1, 142)R	ROCK ISLAND	1353	954
CONTRACT NO. 64B83				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

SBOR-04

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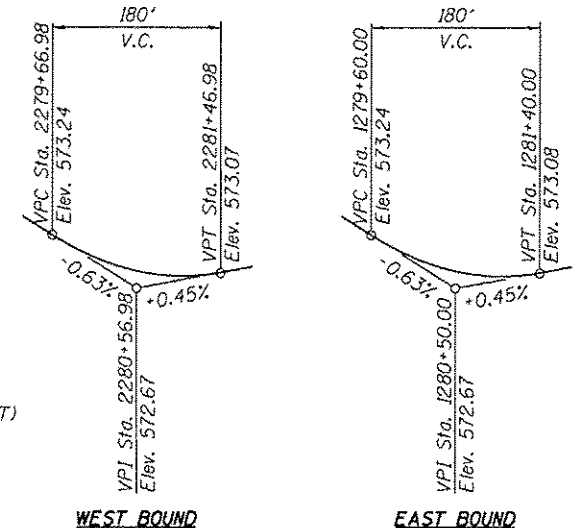
Benchmark: Fire Hydrant, Sta. 294+65.77, 108.75' Rt. Elev. 579.42

Existing Structure: Existing 42" Reinforced Concrete Pipe with 150' out to out length.
Existing structure to be removed and replaced.
Traffic to be maintained utilizing stage construction.
Temporary pavement will be constructed to accommodate Stage I Traffic.

Salvage: No Salvage

INDEX OF SHEETS:

- SA-1 General Plan
- SA-2 General Notes and Total Bill of Material
- SA-3 Details - 1
- SA-4 Details - 2
- SA-5 Soil Borings



CURVE DATA
© F.A.P. 595

$\Delta = 17^\circ 25' 51''$ (RT)
 $D = 0^\circ 36' 00''$
 $T = 1,463.88'$
 $L = 2,905.15'$
 $E = 111.55$
 $R = 9,549.34'$
 $S.E. = 2.0\%$
 $P.C. = Sta. 257+09.97$
 $P.T. = Sta. 286+15.12$
 $P.I. = Sta. 271+73.85$

PROFILE GRADE
F.A.P. 595

DESIGN STRESSES
FIELD UNITS

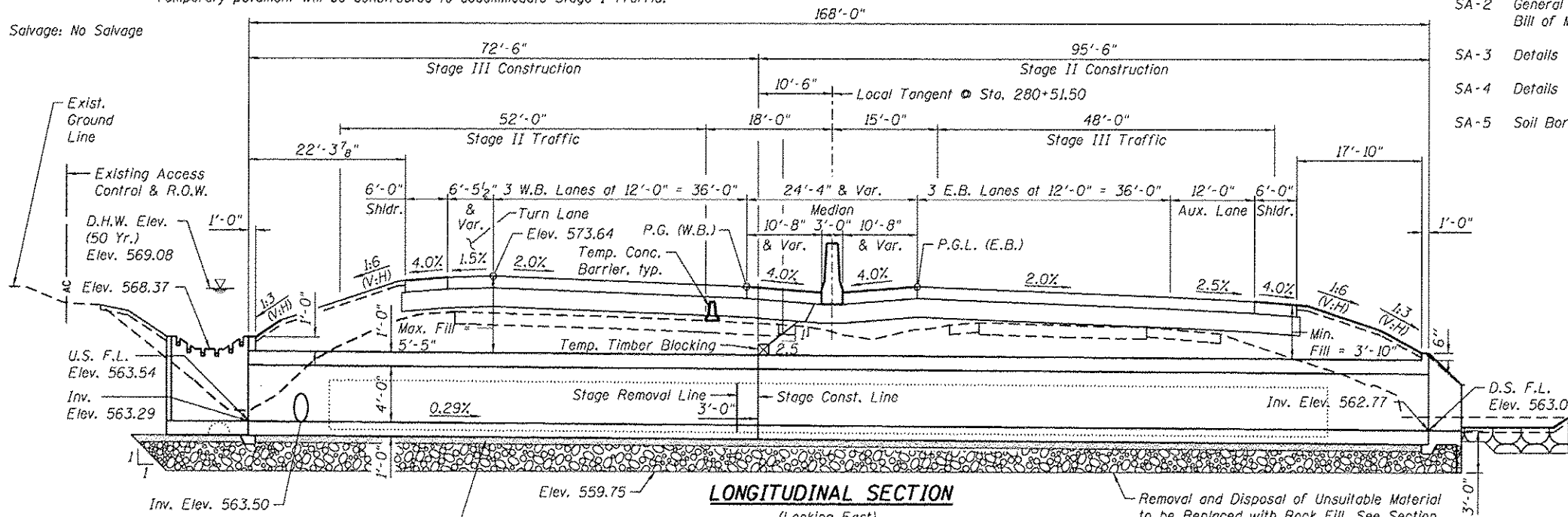
$f'_c = 3,500$ psi
 $f_y = 60,000$ psi (Reinforcement)

PRECAST UNITS

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

LEGEND:

- E— Exist. Underground Electrical Line
- S—S— Exist. Sanitary Sewer
- W— Exist. Water Main
- P—P— Prop. Storm Sewer
- AC— Exist. Access Control and Exist. ROW
- T— Temporary Soil Retention System
- ⊕ Boring Location

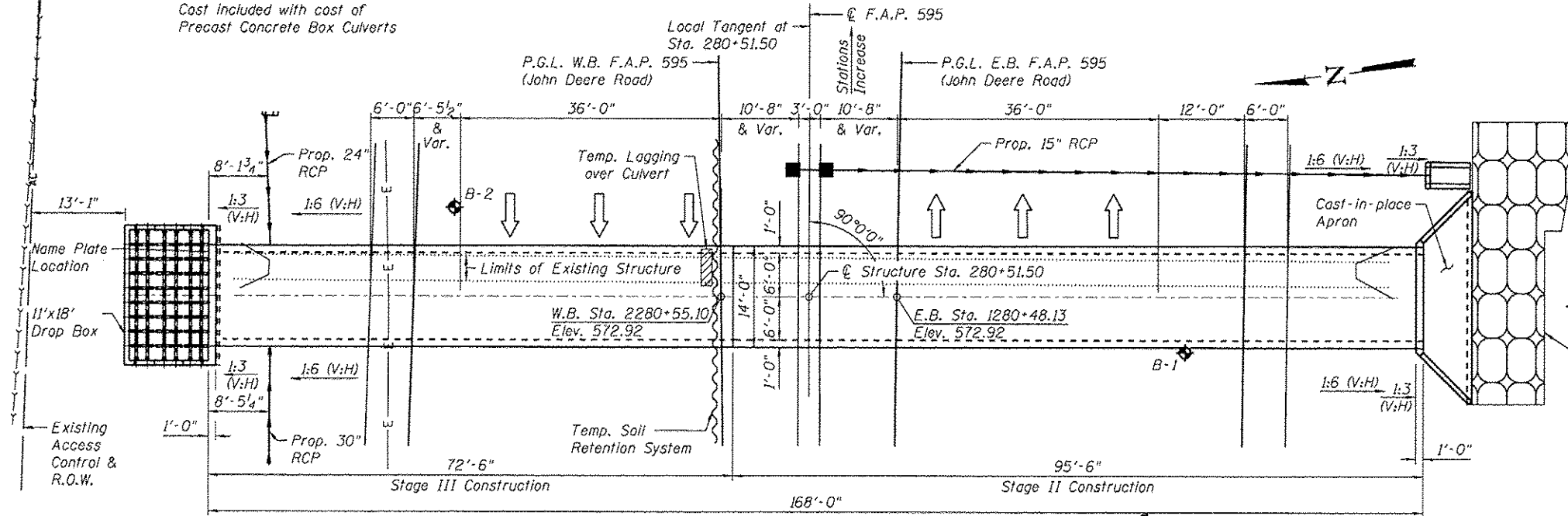


LONGITUDINAL SECTION
(Looking East)

(Dimensions at Rt. L's to local tangent at Sta. 280+51.50 unless otherwise noted)

Removal and Disposal of Unsuitable Material to be Replaced with Rock Fill. See Section Thru Barrel for limits.

6" Porous Granular Embankment Cast included with cost of Precast Concrete Box Culverts



WATERWAY INFORMATION TABLE

Drainage Area	Existing Low Grade Elev. 570.93 ft. @ Sta. 280+55 = 89 Acres				
	Proposed Low-Grade Elev. 573.53 ft. @ Sta. 280+55				
Flood	Freq. Yr.	Q C.F.S.	Opening Sq. Ft. Exist.	Prop.	Headwater El. Exist. Prop.
Design	10	120	48	48	569.37
Base	50	230	10	48	571.14
Overtopping (Existing)	100	289	10	48	571.19
Overtopping (Proposed)	<10	83	10	48	570.93
Max. Calc.	500+	612	48	48	573.53
	500	491	10	48	571.34

DESIGN SCOUR ELEVATION TABLE

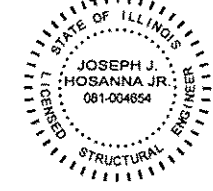
Design Scour Elevation (ft.)	Upstream	Downstream
	560.25	559.77

DESIGN SPECIFICATIONS
2012 AASHTO LRFD Bridge Design Specifications with 2012 Interims

LOADING HL-93

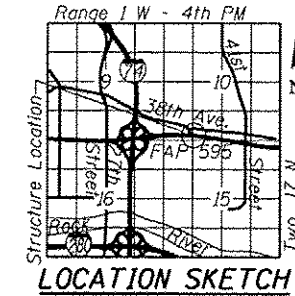
Allow 50#/sq. ft. for future wearing surface. Design Fill > 2 ft.

Joseph J. Hosanna Jr.



STATION 280+51.50
BUILT 20... BY
STATE OF ILLINOIS
F.A.P. RT. 595
SEC. (142-1, 142)R
LOADING HL-93
STRUCTURE NO. 081-1118

NAME PLATE
See Std. 515001



GENERAL PLAN & ELEVATION
JOHN DEERE ROAD (IL 5) OVER
DRAINAGE DITCH
F.A.P. RTE. 595
SECTION (142-1, 142)R
ROCK ISLAND COUNTY
STATION 280+51.50
S.N. 081-1118

S:\PROJECTS\2012\CONTRACT_2\Design\Structure\1\CAD\Culvert - Sta. 280+51.50_081-1118-64883-201_SPE.dgn



USER NAME = saligood	DESIGNED - APD	REVISION -
PLOT SCALE = 20x8" / 1"	CHECKED - BWS	REVISION -
PLOT DATE = 3/17/2015	DRAWN - RD	REVISION -
	CHECKED - BWS	REVISION -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

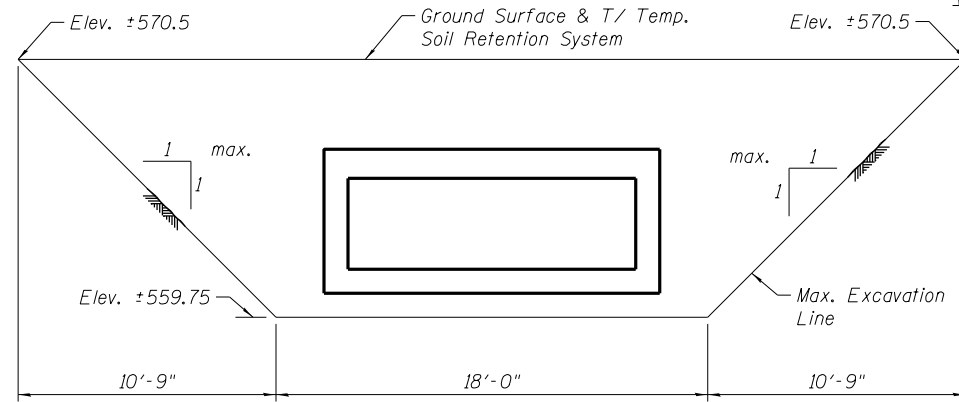
DATE: 3/17/2015
SEAL EXPIRES: 11/30/2016

SHEET NO. SA-1 OF SA-5 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
595	(142-1, 142)R	ROCK ISLAND	1353	955
CONTRACT NO. 64883				
ILLINOIS FED. AID PROJECT				

GENERAL NOTES:

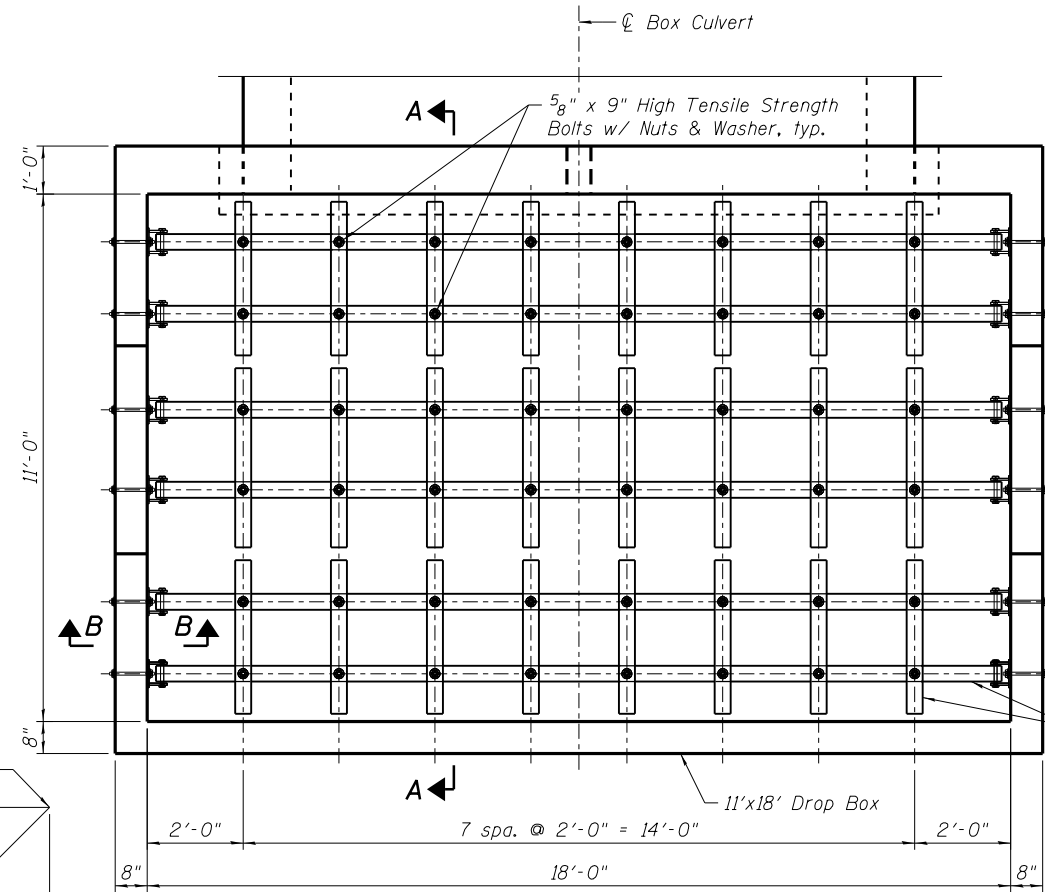
- Reinforcement bars designated (E) shall be epoxy coated.
- A cantilevered sheet piling design does not appear feasible and additional members or other retention system may be necessary. The Contractor shall submit a temporary soil retention system design including plan details and calculations for review and acceptance by the Engineer.
- Layout of the slope protection system may be varied to suit ground conditions in the field as directed by the Engineer.
- Precast concrete box culvert sections shall conform to the requirements of Article 540.06 if the Standard Specifications and applicable requirements of AASHTO M273.
- Lifting holes shall be filled with concrete plugs and mastic after box sections are in place.



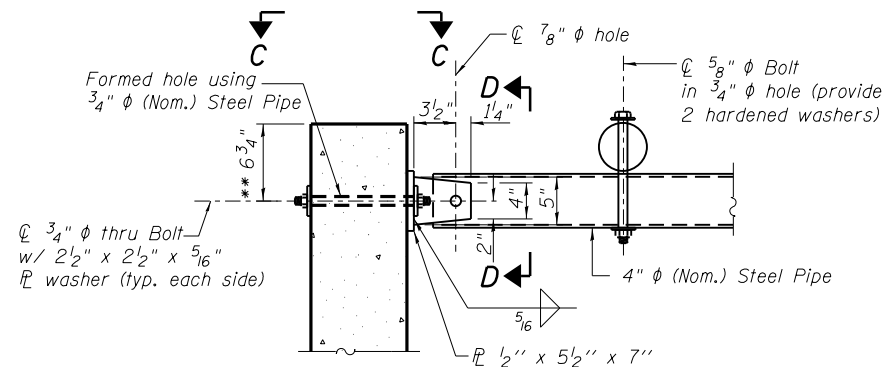
TEMPORARY SOIL RETENTION SYSTEM - ELEVATION
(Looking South)

NOTES

- Cost of Galvanized Pipe, Bolts, Nuts, Washers, Pipe Grate Brackets and Steel Plates shall be included in the cost of Concrete Structures
- Length of steel pipes shall be determined by the Contractor.
- All components of the Pipe Grate shall be galvanized according to the requirements of AASHTO M 111 or M 232, as applicable.
- Fabrication of the Pipe Grate shall conform to the requirements of section 505 of the Standard Specifications.
- Structural steel shapes and plates shall conform to the requirements of Article 1006.04 of the Standard Specifications. Steel pipes shall conform to the requirements of ASTM A53 (Type E or S), Grade B, Standard Weight (Sch.40).
- Bolts and thru bolts shall conform to the requirements of Article 1006.08 of the Standard Specifications. Threaded rods conforming to the requirements of ASTM F1554, Grade 105 may be used for thru bolts.
- The minimum distance from the center of a hole to the free edge of a structural shape or plate shall be 1/2", unless noted otherwise. Bolts shall be snug tightened by a few impacts of an impact wrench or the full force of a worker using an ordinary spud wrench.

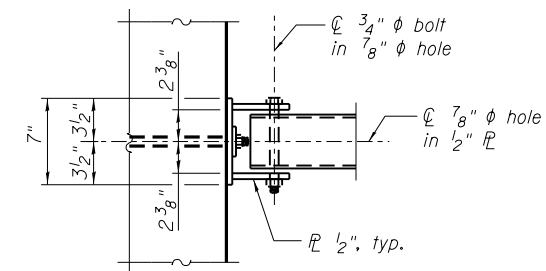


PIPE GRATE PLAN

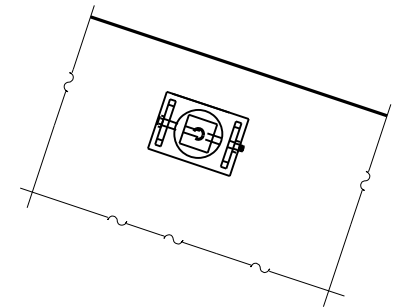


SECTION B-B

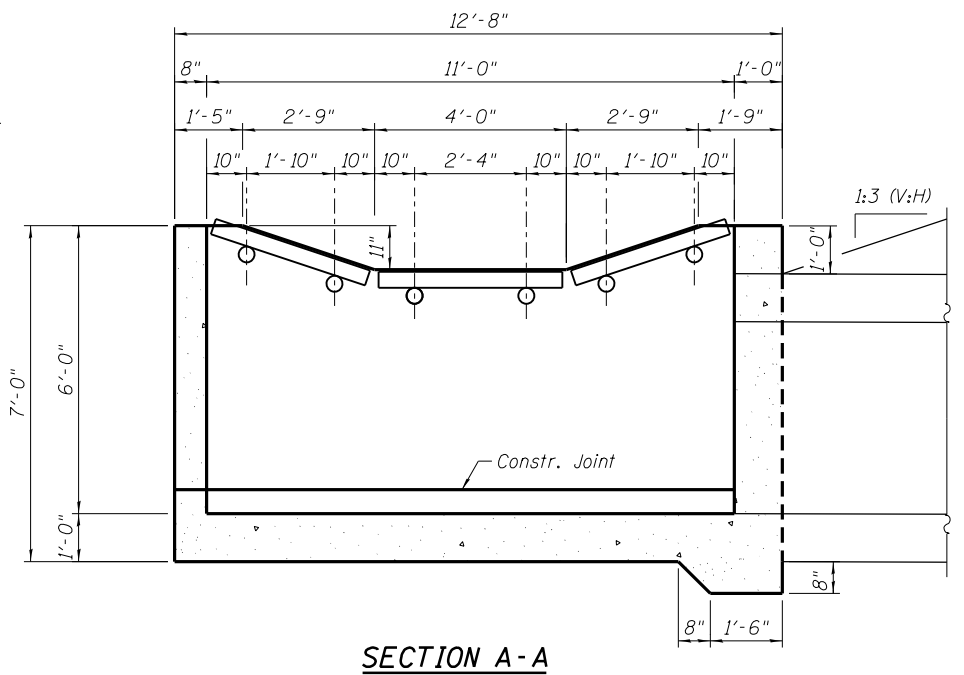
**Measured perpendicular to top of culvert wall. In addition, formed hole shall be located a minimum of 6" measured horizontally from any vertical joints necessary for construction of the culvert end section.



VIEW C-C



VIEW D-D
(See Section B-B for dimensions and details not shown.)



SECTION A-A

BILL OF MATERIAL - PIPE GRATE
(For information only)

ITEM	UNIT	TOTAL
4" Galvanized Steel Pipe	Each	30
5/8" φ Galvanized Steel Bolts	Each	48
Pipe Grate Bracket	Each	12

PIPE GRATE BRACKET DETAILS

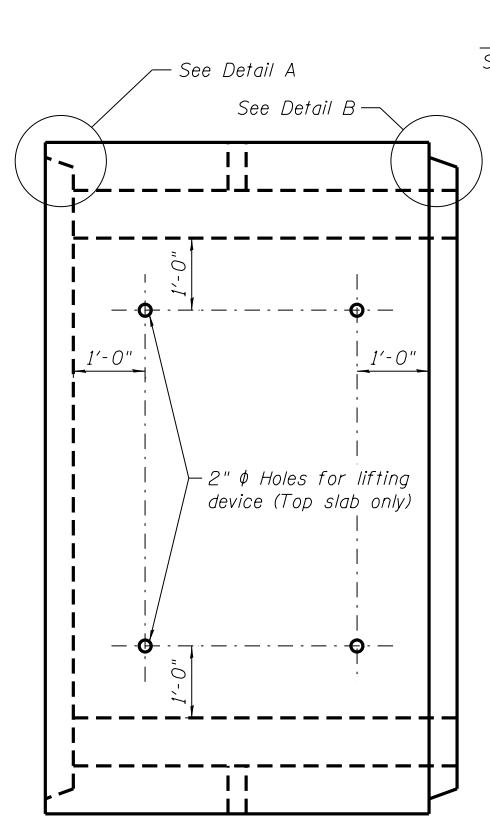
TOTAL BILL OF MATERIAL

ITEM	UNIT	TOTAL
Structure Excavation	Cu Yd	876
Removal And Disposal Of Unsuitable Material For Structures	Cu Yd	317
Concrete Structures	Cu Yd	27.9
Reinforcement Bars, Epoxy Coated	Pound	2,880
Name Plates	Each	1
Precast Concrete Box Culverts 12' X 4'	Foot	168
Rock Fill	Ton	448
Temporary Soil Retention System	Sq Ft	310

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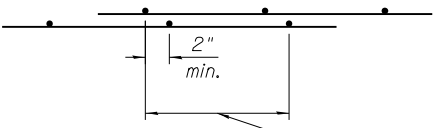
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	CHECKED - BWS	REVISED -
PLOT SCALE = 4/8" = 1" = 1'	DRAWN - RD	REVISED -
PLOT DATE = 3/17/2015	CHECKED - BWS	REVISED -

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
595	(142-1, 142)R	ROCK ISLAND	1353	956
CONTRACT NO. 64883			ILLINOIS FED. AID PROJECT	



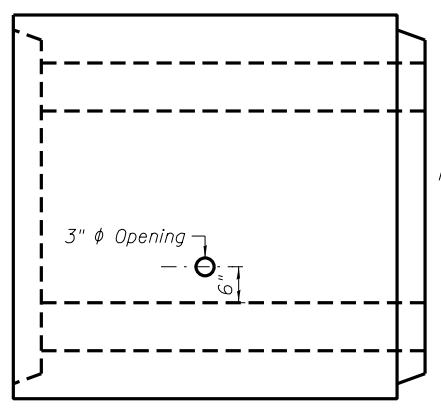
PLAN

Location of lifting holes may be varied as needed to clear reinf.



TYP. FABRIC LAP

Min. length equal to spacing of Longitudinal wires plus 2"

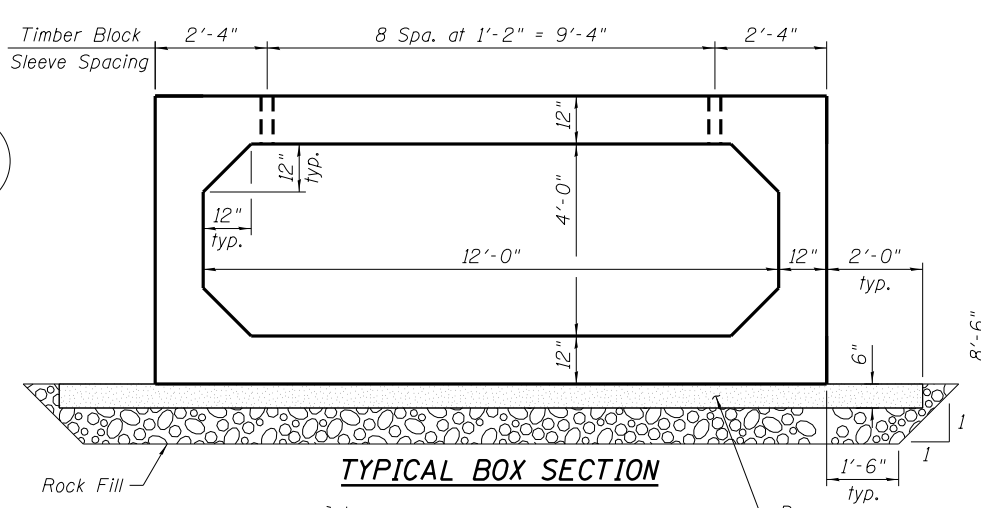


ELEVATION

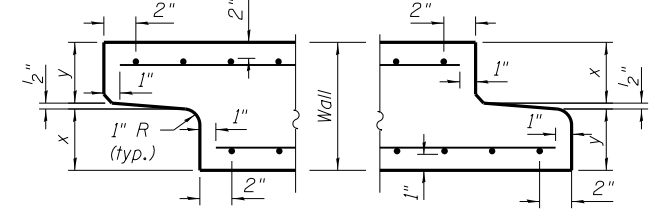
PRECAST BOX CULVERT SECTION

NOTES:

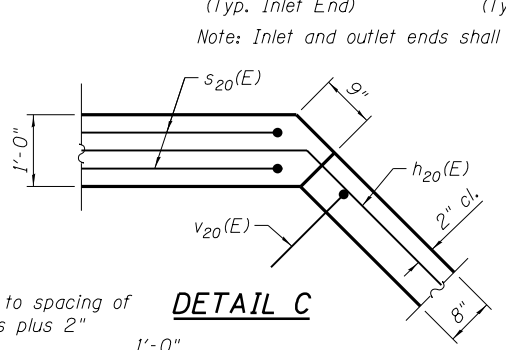
- All construction joints shall be bonded.
- Cover 3" ϕ weep holes with geotechnical fabric for box culvert end section and precast box culvert.



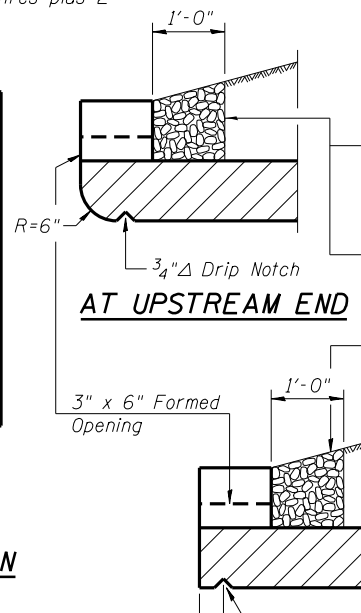
TYPICAL BOX SECTION



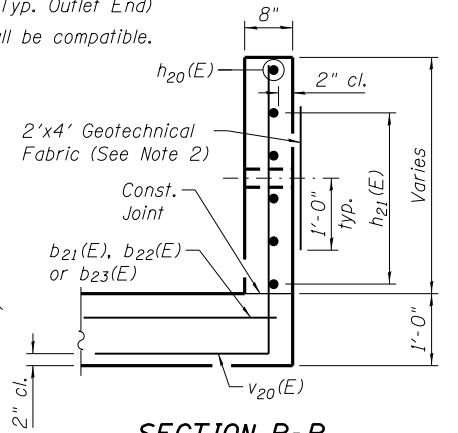
End detail is subject to variation by fabricator.



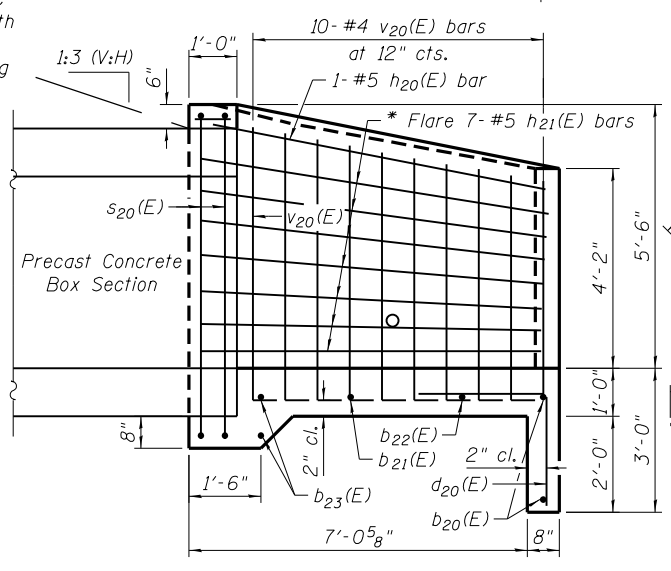
DETAIL C



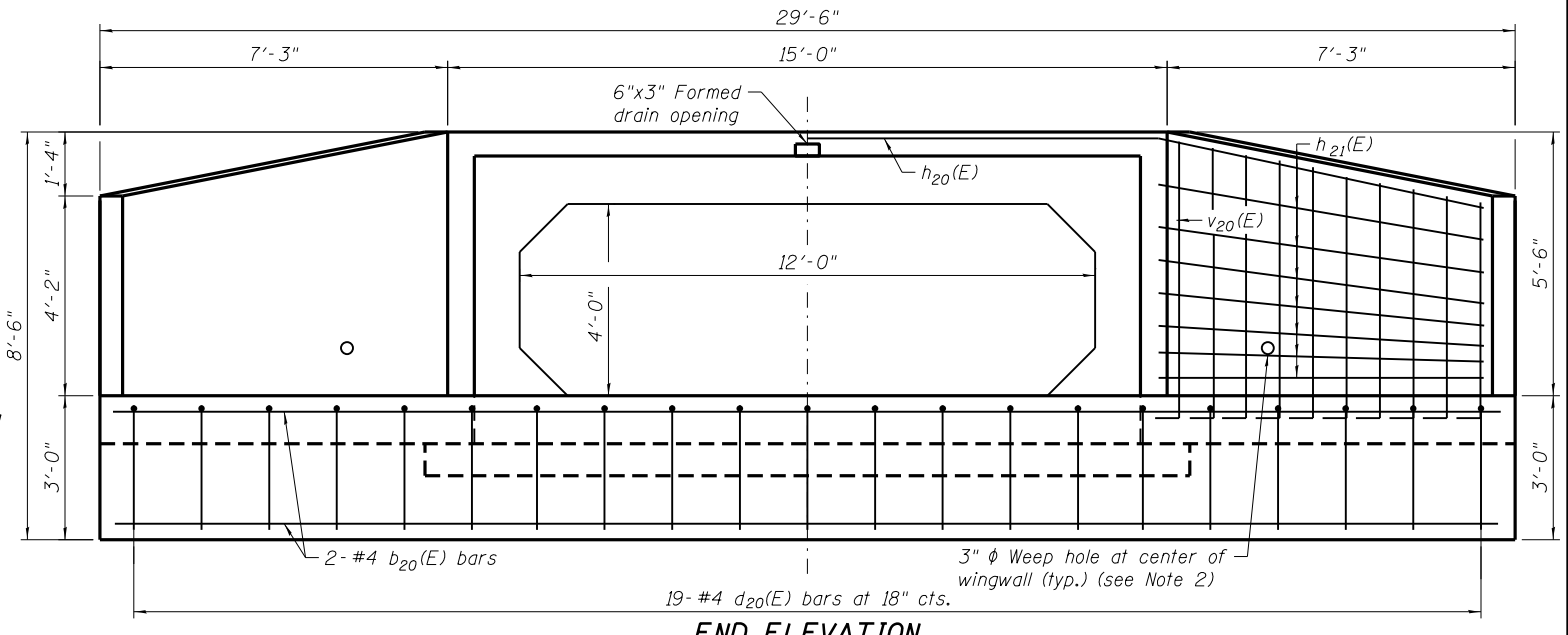
DRAIN DETAIL



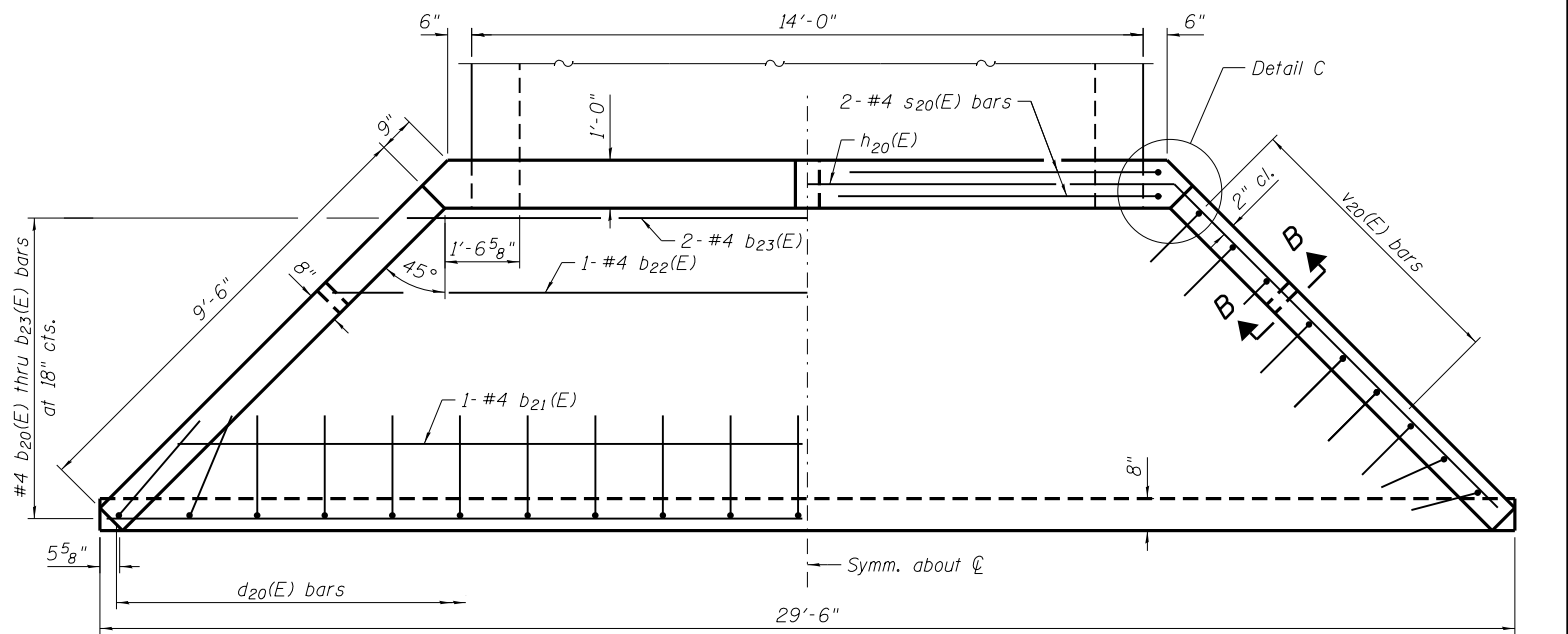
SECTION B-B



HALF SIDE ELEVATION

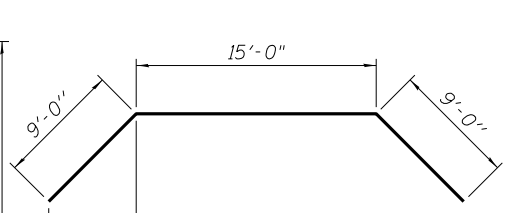


END ELEVATION

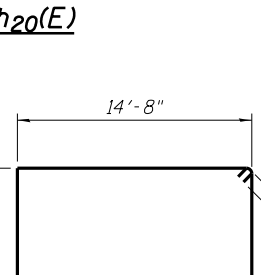


PLAN

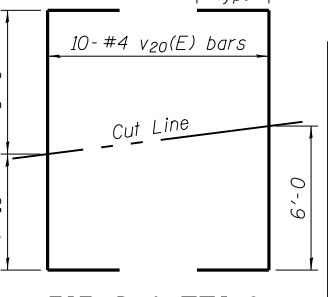
* Cut or bend to fit



BAR $h_{20}(E)$



BAR $s_{20}(E)$



FIELD CUTTING DIAGRAM

Order $v_{20}(E)$ bars full length. Cut as shown and use remainder in opposite wingwall.

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
$b_{20}(E)$	2	# 4	28'-3"	—
$b_{21}(E)$	1	# 4	24'-7"	—
$b_{22}(E)$	1	# 4	20'-11"	—
$b_{23}(E)$	2	# 4	17'-4"	—
$d_{20}(E)$	19	# 4	5'-4"	└
$h_{20}(E)$	1	# 5	33'-0"	┌
$h_{21}(E)$	14	# 5	9'-11"	—
$s_{20}(E)$	2	# 4	43'-9"	└
$v_{20}(E)$	10	# 4	13'-10"	└
Concrete Structures			Cu. Yd.	10.6
Reinforcement Bars, Epoxy Coated			Pound	490
Precast Concrete Box Culverts 12'x4'			Foot	168

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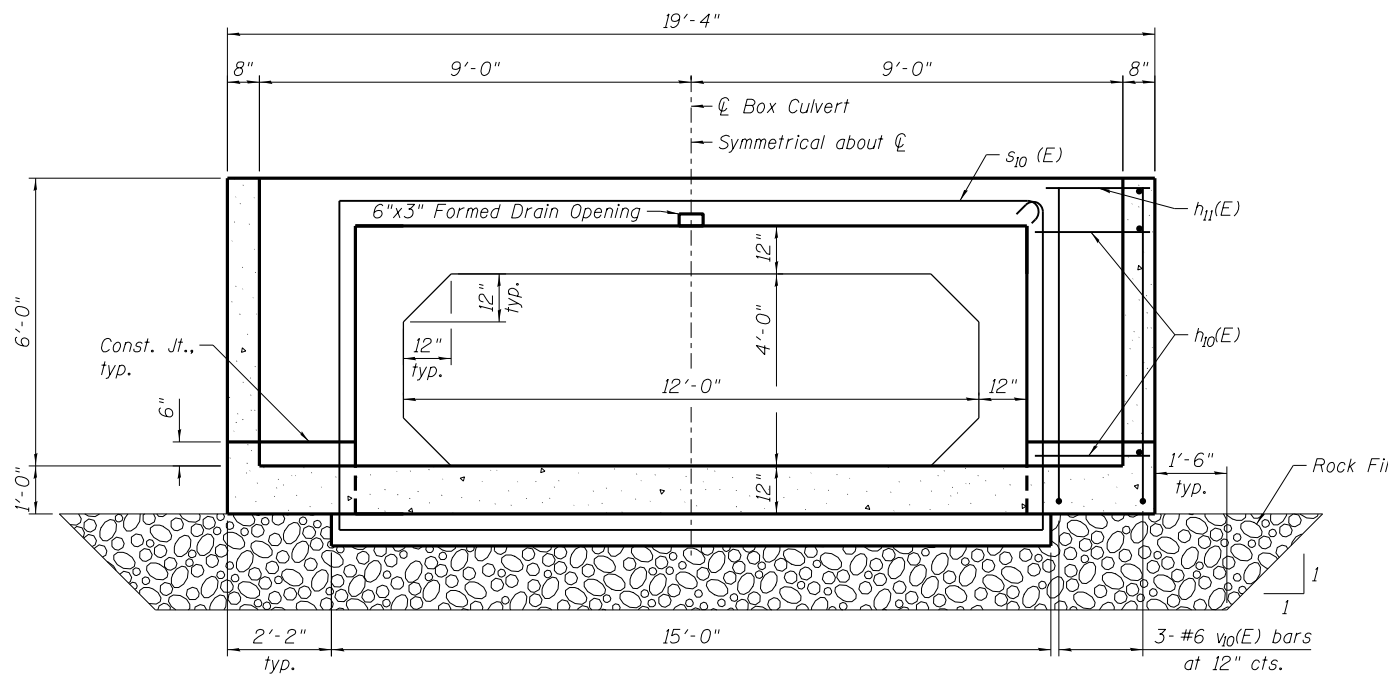
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PLOT DATE = 3/17/2015	DRAWN - RD	REVISD -
	CHECKED - BWS	REVISD -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

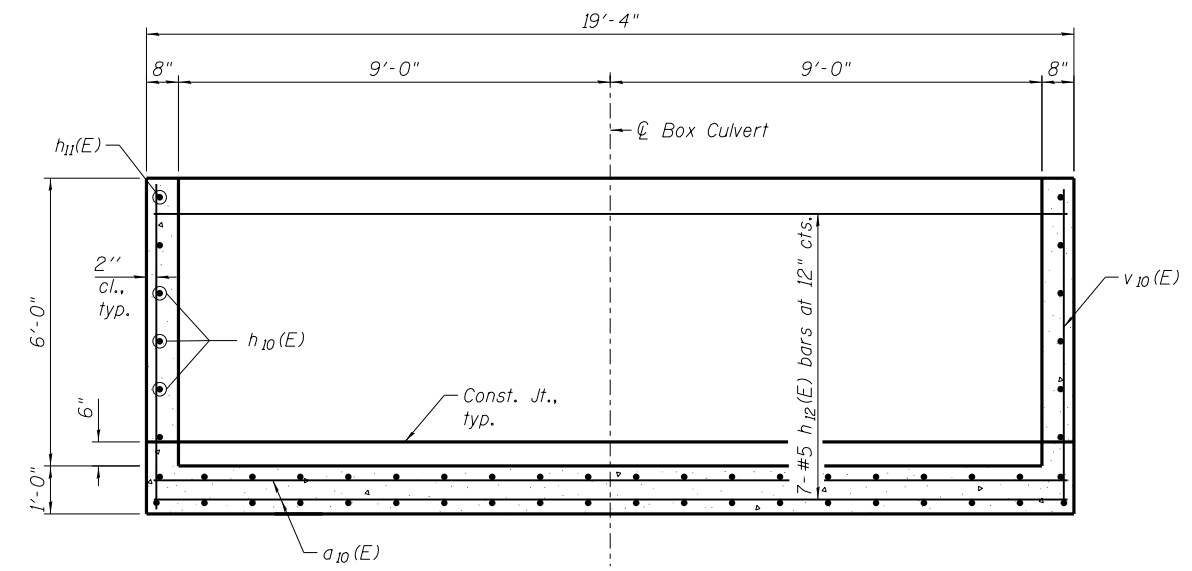
DETAILS - 1
S.N. 081-1118
SHEET NO. SA-3 OF SA-5 SHEETS

F.A.P. RTE. 595	SECTION (142-1, 142R)	COUNTY ROCK ISLAND	TOTAL SHEETS 1353	SHEET NO. 957
ILLINOIS FED. AID PROJECT			CONTRACT NO. 64883	

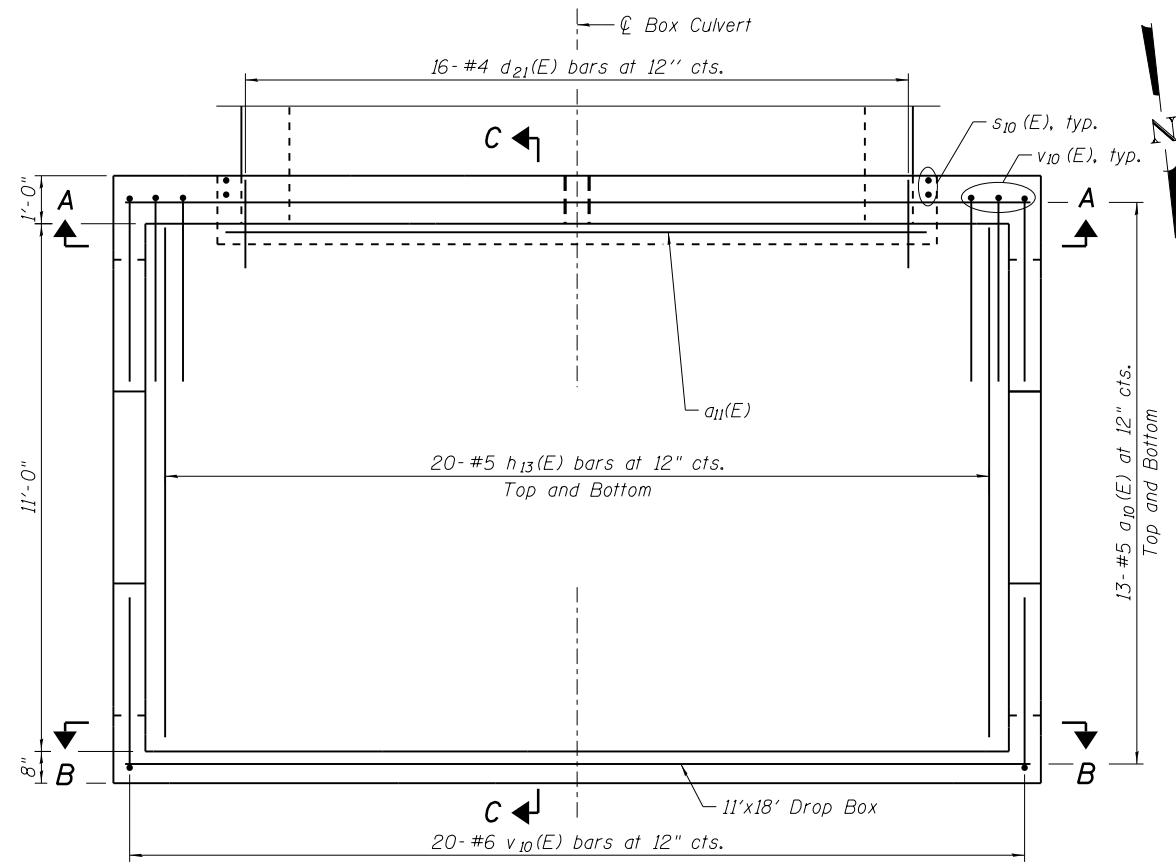
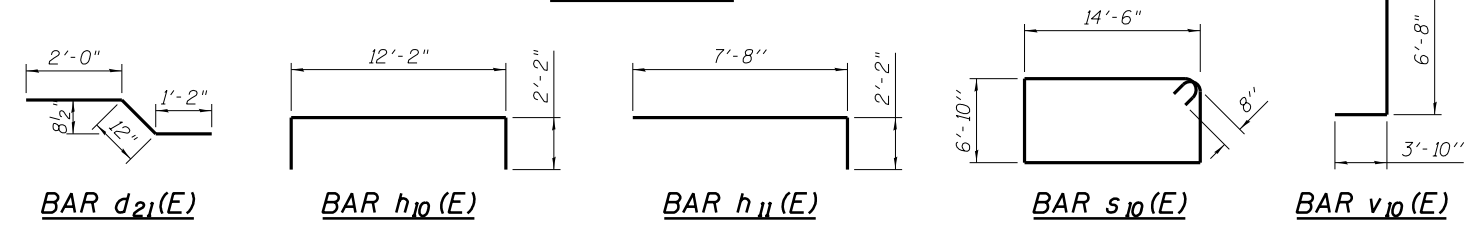
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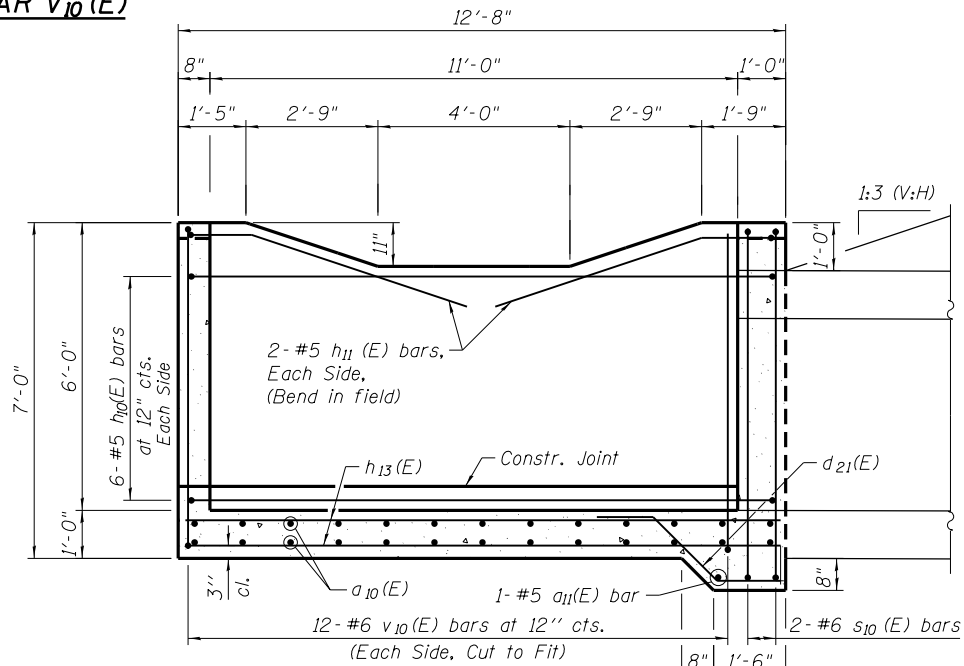
SECTION A-A



SECTION B-B



DROP BOX - PLAN



SECTION C-C

NOTES

- Pipe Grate not shown for clarity. For Pipe Grate Details, See Sheet SA-2.

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a ₁₀ (E)	26	# 5	19'-0"	—
a ₁₁ (E)	1	# 5	14'-8"	—
d ₂₁ (E)	16	# 4	4'-2"	—
h ₁₀ (E)	12	# 5	16'-6"	—
h ₁₁ (E)	4	# 5	9'-10"	—
h ₁₂ (E)	7	# 5	19'-0"	—
h ₁₃ (E)	40	# 5	12'-2"	—
s ₁₀ (E)	2	# 6	44'-0"	—
v ₁₀ (E)	50	# 6	10'-6"	—
Concrete Structures			Cu. Yd.	17.3
Reinforcement Bars, Epoxy Coated			Pound	2,880



USER NAME = sailgood	DESIGNED - APD	REVISED -
PLOT SCALE = 4/8" = 1'-0"	CHECKED - BWS	REVISED -
PLOT DATE = 3/17/2015	DRAWN - RD	REVISED -
	CHECKED - BWS	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**DETAIL - 2
S.N. 081-1118**
SHEET NO. SA-4 OF SA-5 SHEETS

F.A.P. RTE. 595	SECTION (142-1, 142)R	COUNTY ROCK ISLAND	TOTAL SHEETS 1353	SHEET NO. 958
CONTRACT NO. 64883			ILLINOIS FED. AID PROJECT	



Illinois Department of Transportation
Division of Highways
Illinois Department of Transportation/D-2

SOIL BORING LOG

ROUTE FAP 595 DESCRIPTION 081-1118 D-92-003-06 Box Culvert, Double 9' x 3', 1 m. E. of 38th Street in Moline LOGGED BY W. Garza
SECTION (142-1, 142) R LOCATION S. Moline Twp. 10 SW, SEC., TWP. 17N, RNG. 1W
COUNTY Rock Island DRILLING METHOD Hollow Stem Auger HAMMER TYPE B-53 Diedrich Automatic

STRUCT. NO. 081-1118 SURFACE WATER Elev. _____ ft
Station 280+55 Stream Bed Elev. 565.00 ft
BORING NO. B-1 DEPTH 18.0 ft
Station 280+44 H S Qu T
Offset 52.00R Rt CL Groundwater Elev.:
First Encounter 557.0 ft
Upon Completion 555.3 ft
Ground Surface Elev. 569.50 ft After _____ Hrs.

Soil Description	DEPTH (ft)	(ft)	(/ft)	(tsf)	(%)
STIFF brown SILTY CLAY LOAM	0	1.1			18.0
		P			
VERY STIFF tan SILTY LOAM	567.00	4			
	565.50	5	2.3		20.0
		6	P		
MEDIUM dark gray CLAY LOAM with 11.0% ORGANICS	563.00	3	0.5		47.0
		3	B		
SOFT gray CLAY LOAM	560.50	1	0.5		47.0
		3	B		
MEDIUM gray CLAY LOAM	557.50	1	0.5		45.0
		2	B		
		3	B		
MEDIUM gray clean medium coarse SAND	555.50	0			
		4			
		9			
MEDIUM gray clean medium coarse SAND	552.60	4			
		8			
		13			
Wash	550.60	47			
VERY DENSE light gray SANDSTONE		100/9'			
End of Boring					

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T208)
BBS, from 137 (Rev. 8-99)



Illinois Department of Transportation
Division of Highways
Illinois Department of Transportation/D-2

SOIL BORING LOG

ROUTE FAP 595 DESCRIPTION 081-1118 D-92-003-06 Box Culvert, Double 9' x 3', 1 m. E. of 38th Street in Moline LOGGED BY W. Garza
SECTION (142-1, 142) R LOCATION S. Moline Twp. 10 SW, SEC., TWP. 17N, RNG. 1W
COUNTY Rock Island DRILLING METHOD Hollow Stem Auger HAMMER TYPE B-53 Diedrich Automatic

STRUCT. NO. 081-1118 SURFACE WATER Elev. _____ ft
Station 280+55 Stream Bed Elev. 565.00 ft
BORING NO. B-2 DEPTH 30.0 ft
Station 280+63 H S Qu T
Offset 49.00R Lt CL Groundwater Elev.:
First Encounter 557.3 ft
Upon Completion 555.3 ft
Ground Surface Elev. 569.80 ft After _____ Hrs.

Soil Description	DEPTH (ft)	(ft)	(/ft)	(tsf)	(%)
Asphalt Shoulder	0				
MEDIUM tan SILTY LOAM	567.30	5	0.9		24.0
	565.80	5	P		
MEDIUM dark gray CLAY LOAM	563.30	1	0.8		36.0
		3	B		
VERY STIFF gray CLAY LOAM	560.80	1	1.2		30.0
		3	B		
		5	B		
SOFT tan/gray SILTY CLAY	557.80	2	0.5		45.0
		3	B		
		4	B		
MEDIUM gray fine SAND	555.80	2			
		5			
		9			
LOOSE gray fine SAND	552.80	2			
		3			
		4			
VERY DENSE gray SANDSTONE	550.80	32			
		100/9'			
End of Boring					

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T208)
BBS, from 137 (Rev. 8-99)

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USER NAME = sailgood	DESIGNED - BWS	REVISED -
	CHECKED - APD	REVISED -
PLOT SCALE = 0:2.0000 "1" / in.	DRAWN - RD	REVISED -
PLOT DATE = 3/17/2015	CHECKED - BWS	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**SOIL BORINGS
S.N. 081-1118**

SHEET NO. SA-5 OF SA-5 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
595	(142-1, 142)R	ROCK ISLAND	1353	959
				CONTRACT NO. 64883

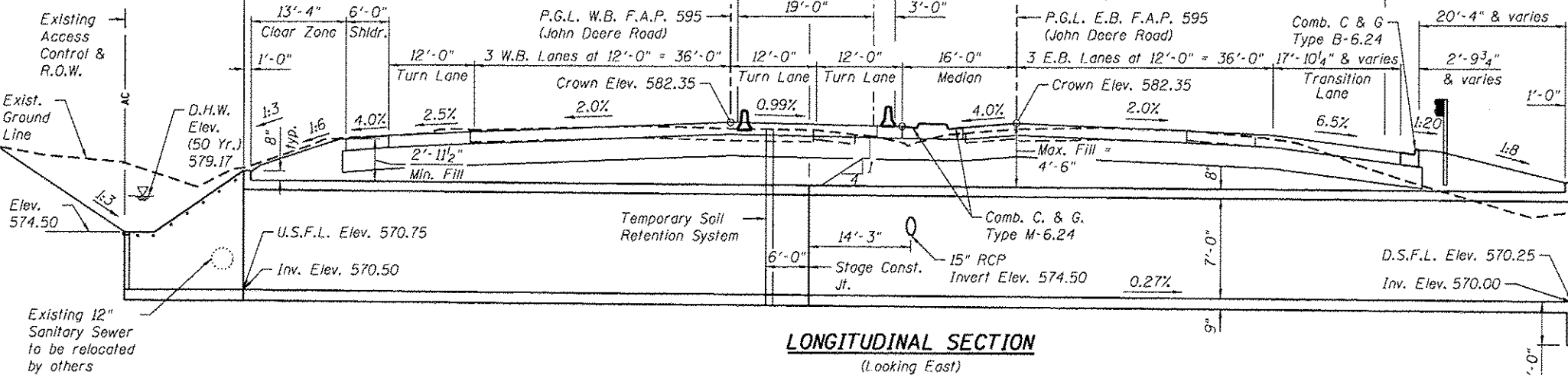
ILLINOIS FED. AID PROJECT

Benchmark: "X" Cut in Headwall, Sta. 303+18.18, 74.12' Rt. Elev. 579.29

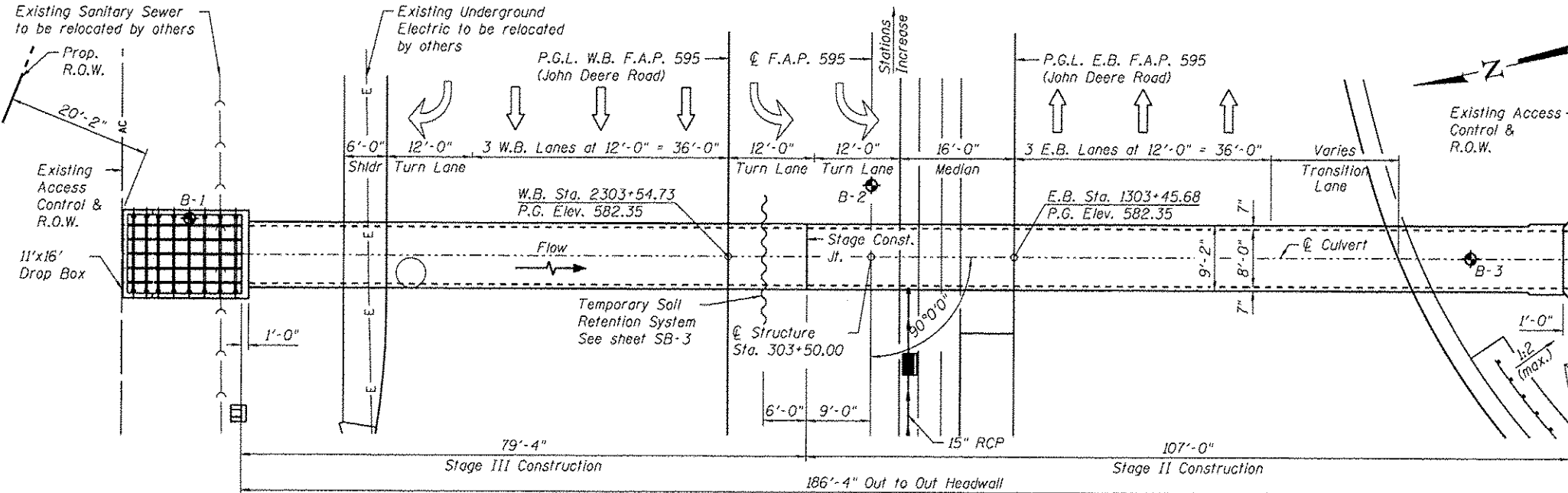
Existing Structure: Existing 6'x5' Culvert at station 303+04.00 with 166' out to out length.
Existing structure to be removed and replaced.
Traffic to be maintained utilizing stage construction.
Temporary pavement will be constructed to accommodate Stage I Traffic.

Salvage: No Salvage

Note: Precast alternate is not allowed.



LONGITUDINAL SECTION (Looking East)
(Dimensions at Rt L's to local tangent at Sta. 303+50.00 unless otherwise noted)



PLAN

DESIGN SCOUR ELEVATION TABLE

Design Scour Elevation (ft.)	Upstream	Downstream
	567.50	567.00

DESIGN SPECIFICATIONS

2012 AASHTO LRFD Bridge Design Specifications with 2013 Interims

DESIGN STRESSES

FIELD UNITS

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

LOADING HL-93

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

WATERWAY INFORMATION

Drainage Area = 164 Acres	Existing Low-Grade Elev. 581.50 ft. @ Sta. 302+00	Proposed Low-Grade Elev. 581.12 ft. @ Sta. 302+60		
Flood	Freq. Yr.	0 C.F.S.	Opening Sq. Ft.	Headwater El.
			Exist. Prop.	Exist. Prop.
Design	50	334	30 44	581.80 579.17
Base	100	429	30 44	582.08 580.96
Overtopping (Existing)	<50	273	30 --	581.50 --
Overtopping (Proposed)	100+	591	-- 53	-- 581.12
Max. Calc.	500	729	30 56	582.72 581.27

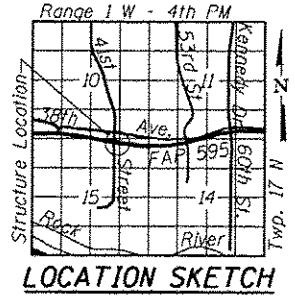
GENERAL NOTES:
1. Reinforcement bars designated (E) shall be epoxy coated.



DATE: 3/17/2015
SEAL EXPIRES: 11/30/2018

STATION 303+50.00
BUILT 20... BY
STATE OF ILLINOIS
F.A.P. RT. 595
SEC. (142-1, 142)R
LOADING HL-93
STRUCTURE NO. 081-1119

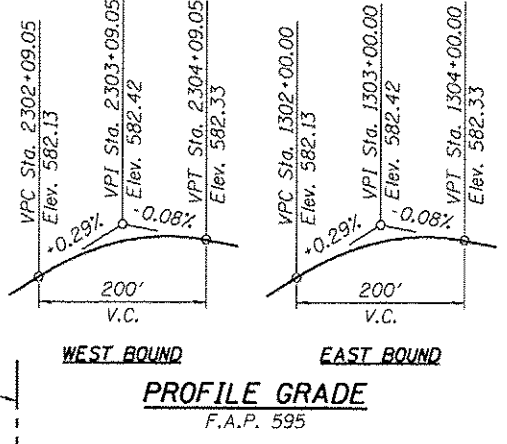
NAME PLATE
See Std. 51500!



GENERAL PLAN & ELEVATION
JOHN DEERE ROAD (IL 5) OVER
DRAINAGE DITCH
F.A.P. RTE. 595
SECTION (142-1, 142)R
ROCK ISLAND COUNTY
STATION 303+50.00
S.N. 081-1119

INDEX OF SHEETS:

- SB-1 General Plan
- SB-2 Details - 1
- SB-3 Details - 2
- SB-4 Details - 3
- SB-5 Bar Splicer Assembly and Mechanical Splicer Details
- SB-6 Boring Logs



TOTAL BILL OF MATERIAL

ITEM	UNIT	TOTAL
Reinforcement Bars, Epoxy Coated	Pound	39,560
Bar Splicers	Each	43
Name Plates	Each	1
Concrete Box Culverts	Cu Yd	168.0
Temporary Soil Retention System	Sq Ft	321

LEGEND:

- E — Exist. Underground Electrical Line
- — — — — Exist. Sanitary Sewer
- W — Exist. Water Main
- — — — — Prop. Storm Sewer
- AC — Exist. Access Control and Exist. ROW
- — — — — Prop. R.O.W.
- — — — — Temporary Soil Retention System
- ◆ — Boring Location

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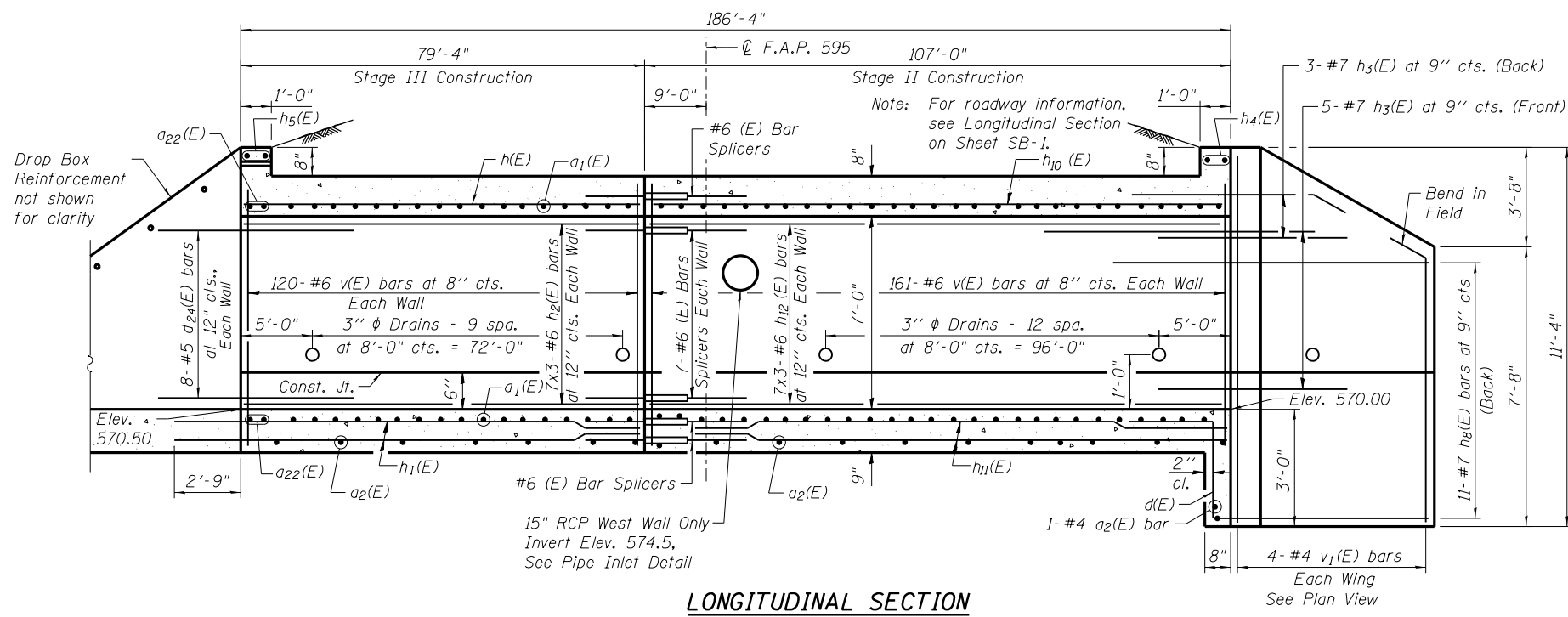


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PLDT DATE = 3/17/2015	DRAWN - RD	REVISED -
	CHECKED - APD	REVISED -

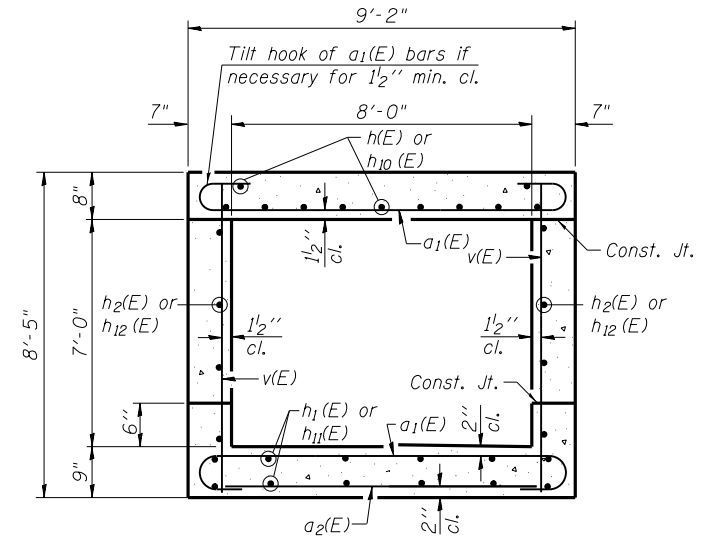
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SHEET NO. SB-1 OF SB-6 SHEETS

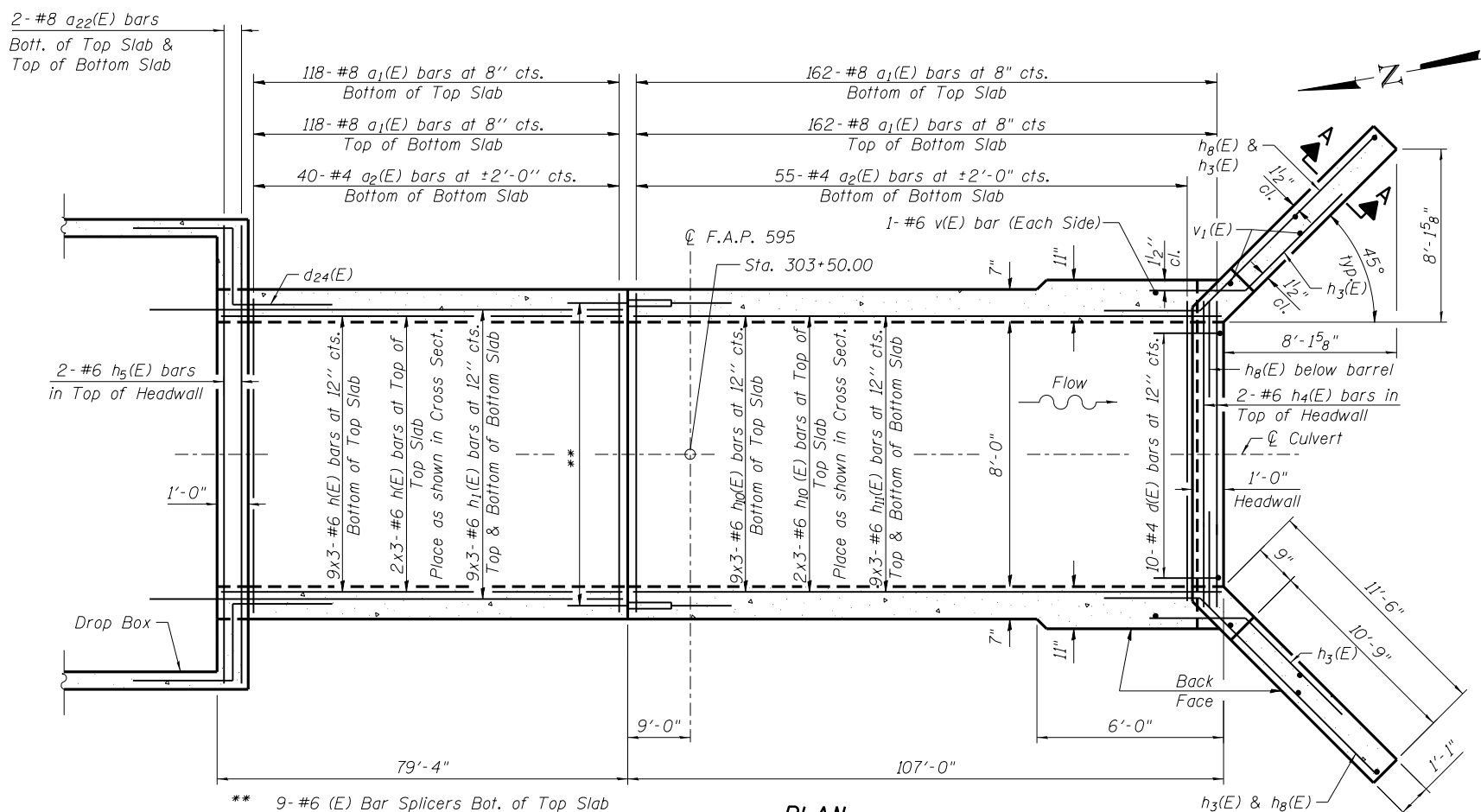
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
595	(142-1, 142)R	ROCK ISLAND	1353	960
CONTRACT NO. 64883			ILLINOIS FED. AID PROJECT	



LONGITUDINAL SECTION

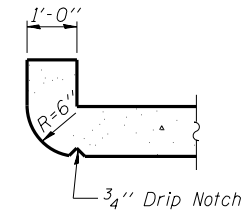


SECTION THRU BARREL

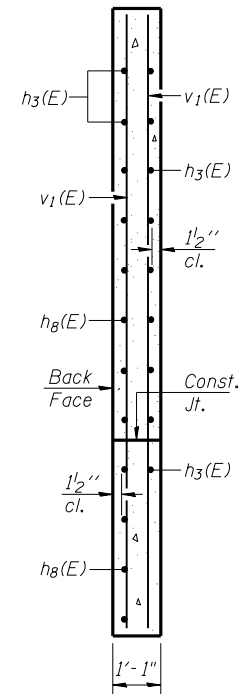


PLAN

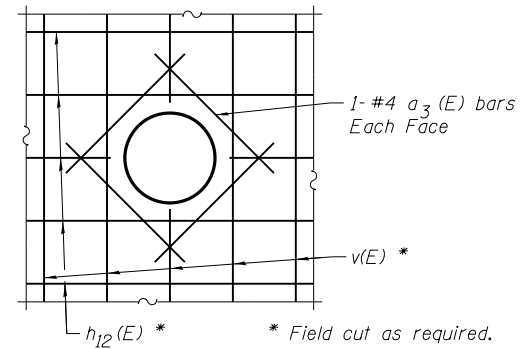
MIN. LAP
#6 bar = 3'-6"



SECTION THRU HEADWALL
(Up Stream End Only)



SECTION A-A



PIPE INLET DETAIL

NOTES:

1. A distance of half the length of the wingwall but not less than six feet of the barrel shall be poured monolithically with the wingwalls.
2. Bars indicated thus 12x4-#5 etc. indicates 12 lines of bars with 4 lengths per line.
3. For Bill of Material, see Sheet SB-3. For Drop Box Details, see Sheet SB-3.

N:\PROJECTS\00033333\CONTRACT_2\Design\Structural\Culvert_2\081-1119\081-1119-64883-002_Details-1.dgn



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PLOT DATE = 3/17/2015	DRAWN - RD	REVISED -
	CHECKED - APD	REVISED -

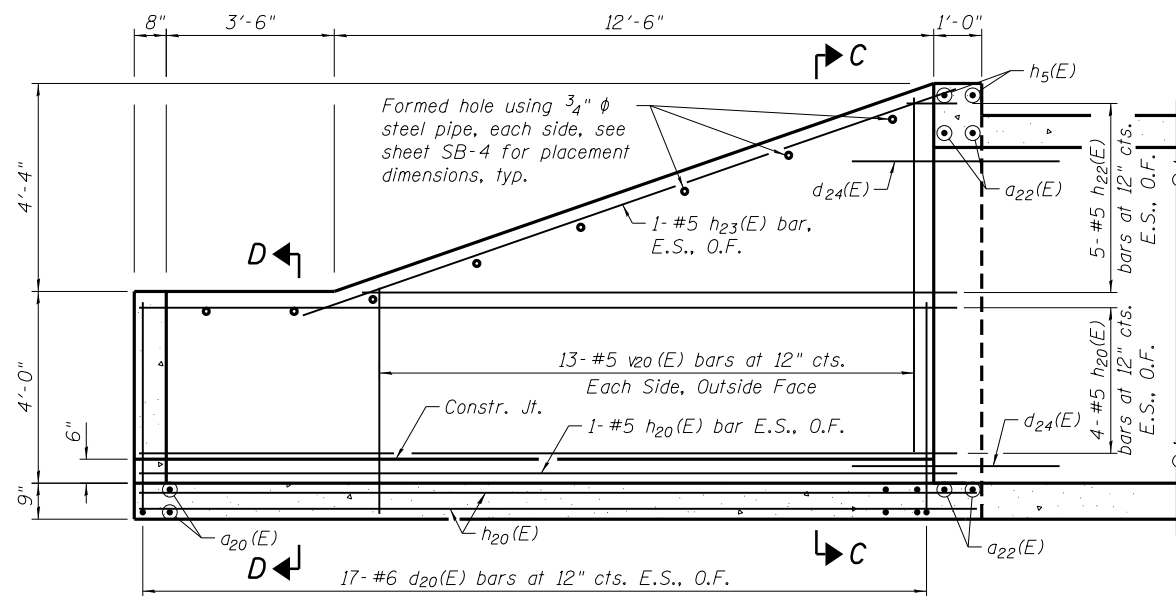
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DETAILS - 1
S.N. 081-1119

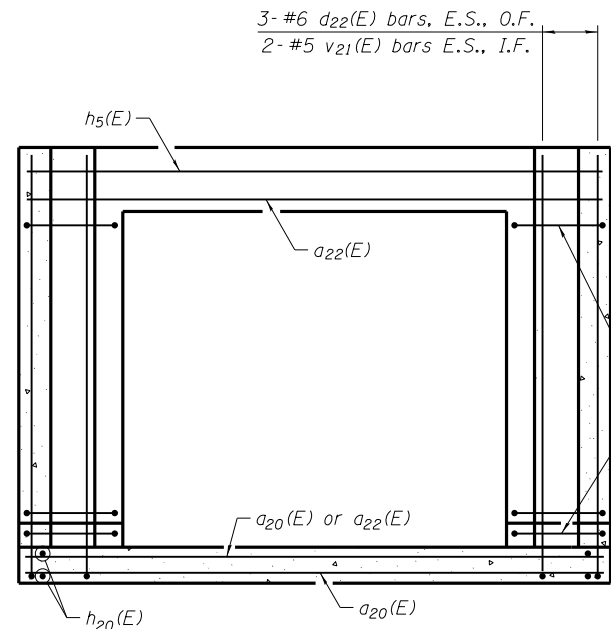
SHEET NO. SB-2 OF SB-6 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
595	(142-1, 142)R	ROCK ISLAND	1353	961
CONTRACT NO. 64883				

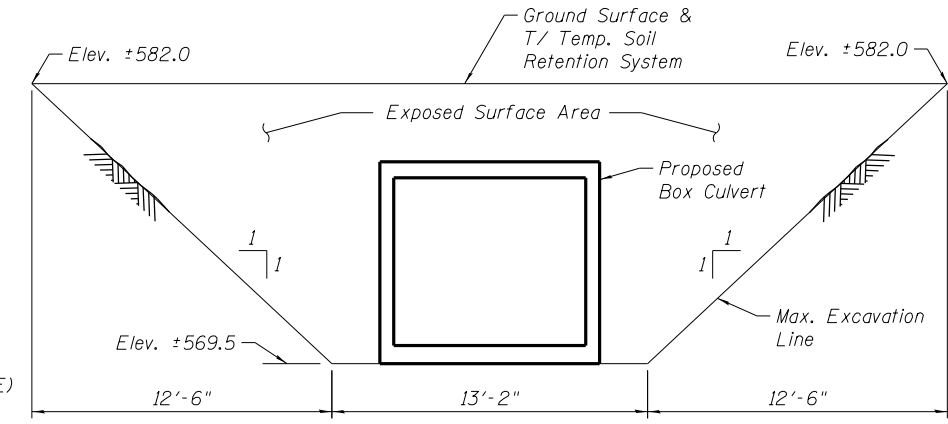
ILLINOIS FED. AID PROJECT



SECTION B-B

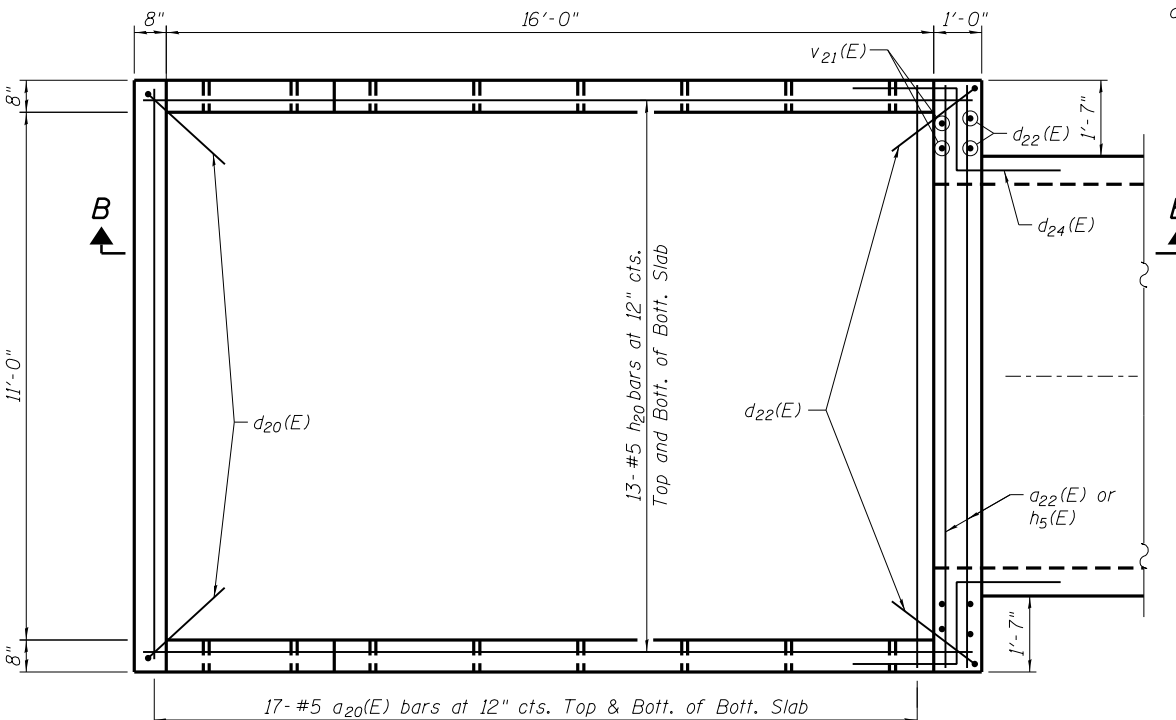


SECTION C-C

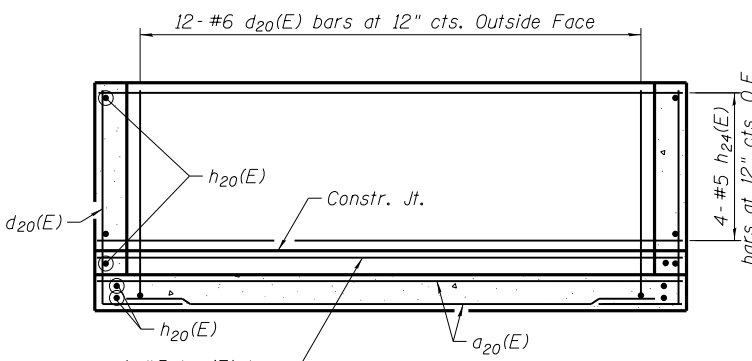


TEMPORARY SOIL RETENTION SYSTEM - ELEVATION
(Looking North)

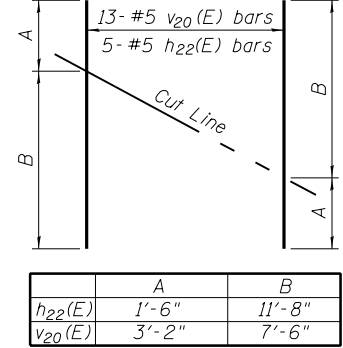
Note:
A cantilevered sheet piling design does not appear feasible and additional members of other retention system may be necessary. The Contractor shall submit a temporary soil retention system design including plan details and calculations for review and acceptance by the Engineer.



PLAN

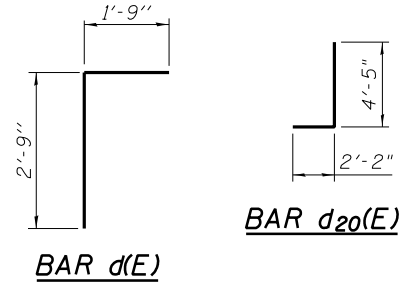
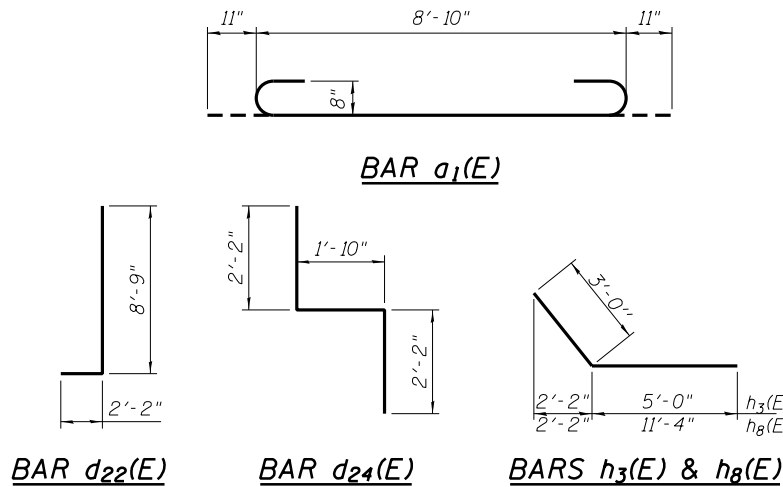


SECTION D-D



FIELD CUTTING DIAGRAM

Order v20(E) and h22(E) bars full length. Cut as shown and use remainder of bars in opposite wall.



MIN. LAP
#5 bar = 2'-7"

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a1(E)	560	# 8	10'-8"	C
a2(E)	95	# 4	8'-10"	—
a3(E)	8	# 4	3'-6"	—
a20(E)	34	# 5	12'-0"	—
a22(E)	4	# 8	12'-0"	—
d(E)	10	# 4	4'-6"	J
d20(E)	46	# 6	6'-7"	J
d22(E)	6	# 6	10'-11"	J
d24(E)	16	# 5	6'-2"	J
h(E)	33	# 6	28'-8"	—
h1(E)	54	# 6	29'-8"	—
h2(E)	42	# 6	28'-5"	—
h3(E)	16	# 7	8'-0"	J
h4(E)	2	# 6	8'-6"	—
h5(E)	2	# 6	12'-0"	—
h8(E)	22	# 7	13'-4"	J
h10(E)	33	# 6	37'-11"	—
h11(E)	54	# 6	37'-11"	—
h12(E)	42	# 6	37'-11"	—
h20(E)	36	# 5	17'-4"	—
h22(E)	5	# 5	13'-2"	—
h23(E)	2	# 5	14'-3"	—
h24(E)	5	# 5	12'-0"	—
v(E)	564	# 6	8'-1"	—
v1(E)	8	# 4	11'-0"	—
v20(E)	13	# 5	10'-8"	—
v21(E)	4	# 5	9'-1"	—
Concrete Box Culverts	Cu. Yd.		168.0	
Reinforcement Bars, Epoxy Coated	Pound		39,560	
Temporary Soil Retention System	Sq. Ft.		321	

NOTES:

- E.S. = Each Side. I.F. = Inside Face. O.F. = Outside Face.
- Pipe Grate not shown for clarity. For Pipe Grate Details, See Sheet SB-4.

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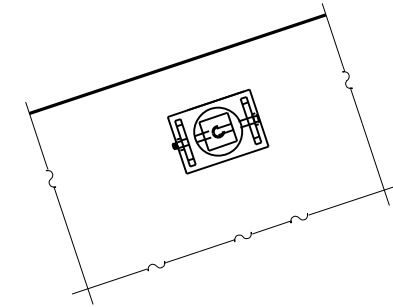
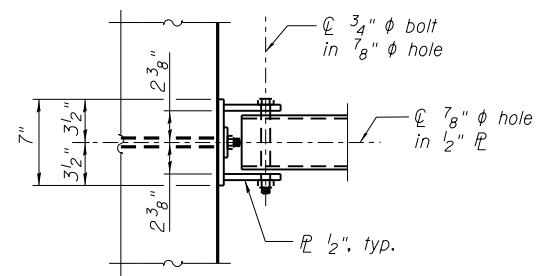
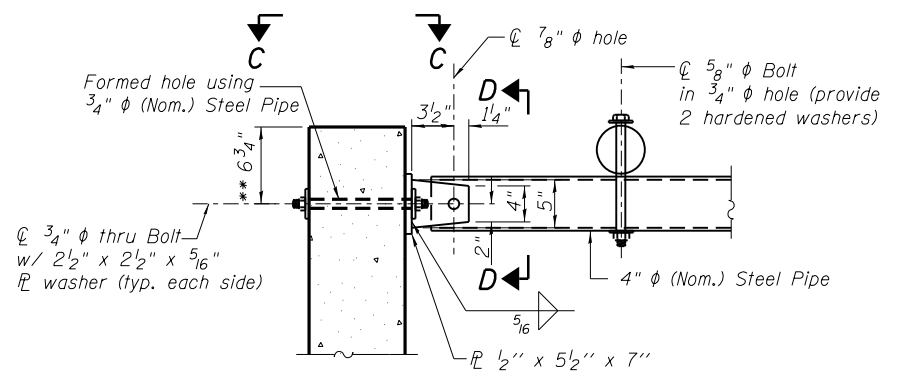
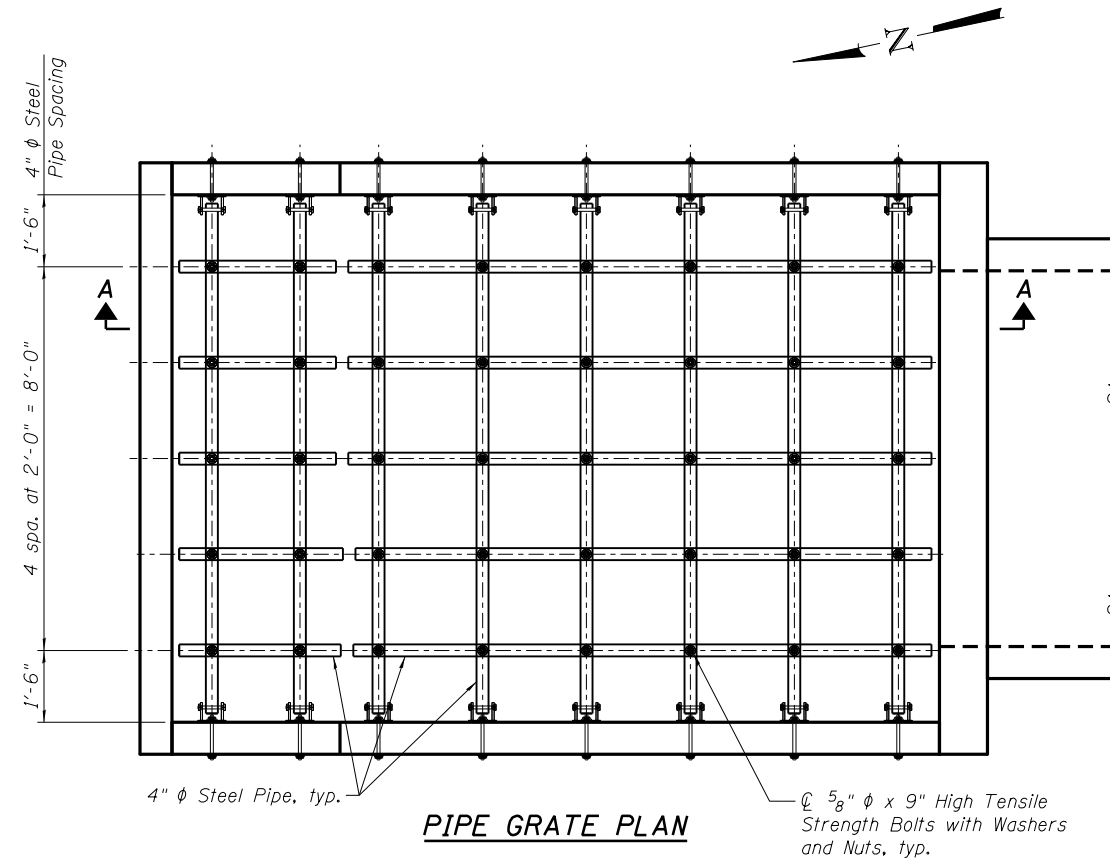
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PLOT DATE = 3/17/2015	CHECKED - APD	REVISED -

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

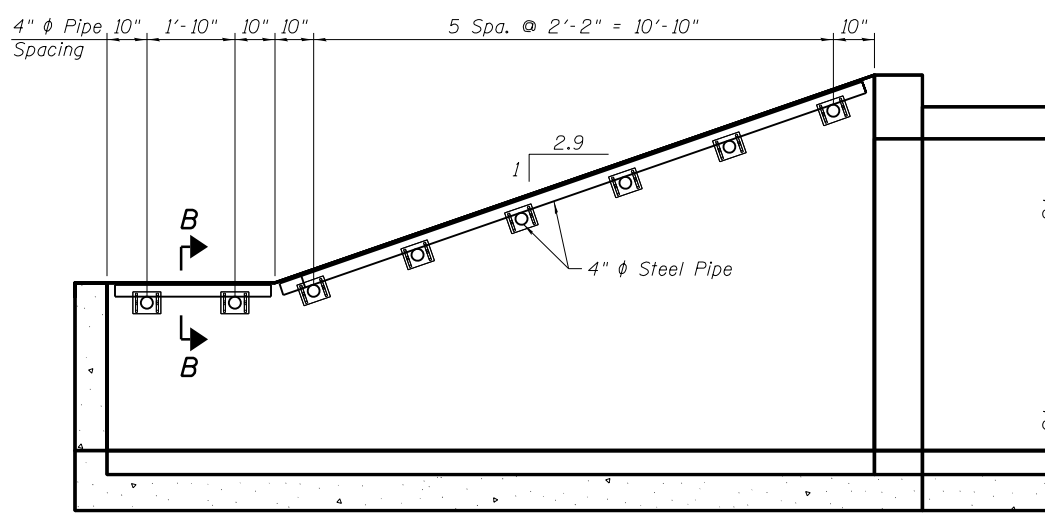
DETAILS - 2 S.N. 081-1119

SHEET NO. SB-3 OF SB-6 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
595	(142-1, 142)R	ROCK ISLAND	1353	962
CONTRACT NO. 64883			ILLINOIS FED. AID PROJECT	



(See Section B-B for dimensions and details not shown.)



PIPE GRATE BRACKET DETAILS

NOTES

- Cost of Galvanized Pipe, Bolts, Nuts, Washers, Pipe Grate Bracket and Steel Plates shall be included in the cost of Concrete Box Culverts.
- Length of steel pipes shall be determined by the Contractor.
- All components of the Pipe Grate shall be galvanized according to the requirements of AASHTO M 111 or M 232, as applicable.
- Fabrication of the Pipe Grate shall conform to the requirements of section 505 of the Standard Specifications.
- Structural steel shapes and plates shall conform to the requirements of Article 1006.04 of the Standard Specifications. Steel pipes shall conform to the requirements of ASTM A53 (Type E or S), Grade B, Standard Weight (Sch.40).
- Bolts and thru bolts shall conform to the requirements of Article 1006.08 of the Standard Specifications. Threaded rods conforming to the requirements of ASTM F1554, Grade 105 may be used for thru bolts.
- The minimum distance from the center of a hole to the free edge of a structural shape or plate shall be 1 1/2", unless noted otherwise. Bolts shall be snug tightened by a few impacts of an impact wrench or the full force of a worker using an ordinary spud wrench.

BILL OF MATERIAL - PIPE GRATE

(For information only)

ITEM	UNIT	TOTAL
4" Galvanized Steel Pipe	Each	18
5/8"x9" Galvanized Steel Bolts	Each	40
Pipe Grate Bracket	Each	16

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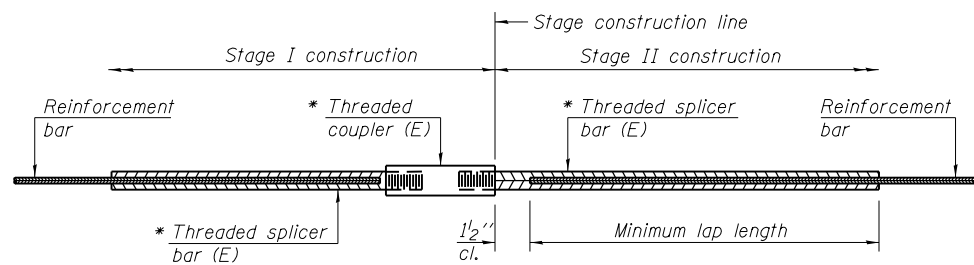


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PLOT DATE = 3/17/2015	CHECKED - APD	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**DETAILS-3
S.N. 081-1119**
SHEET NO. SB-4 OF SB-6 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
595	(142-1, 142)R	ROCK ISLAND	1353	963
				CONTRACT NO. 64883
ILLINOIS FED. AID PROJECT				



STANDARD BAR SPLICER ASSEMBLY

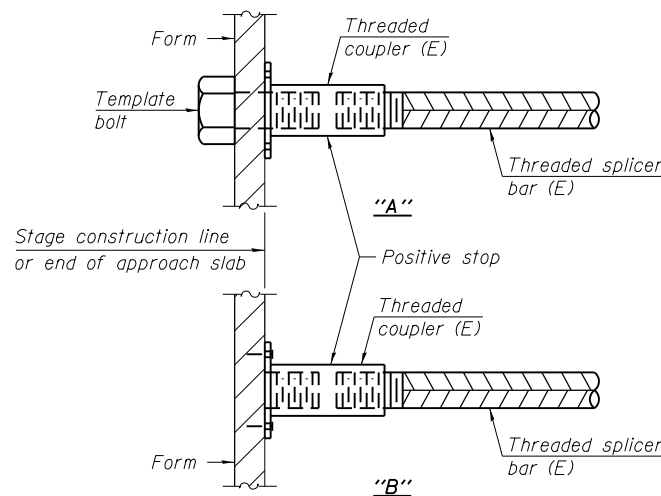
Minimum Lap Lengths						
Bar size to be spliced	Table 1	Table 2	Table 3	Table 4	Table 5	Table 6
3, 4	1'-5"	1'-11"	2'-1"	2'-4"	2'-7"	2'-11"
5	1'-9"	2'-5"	2'-7"	2'-11"	3'-3"	3'-8"
6	2'-1"	2'-11"	3'-1"	3'-6"	3'-10"	4'-5"
7	2'-9"	3'-10"	4'-2"	4'-8"	5'-2"	5'-10"
8	3'-8"	5'-1"	5'-5"	6'-2"	6'-9"	7'-8"
9	4'-7"	6'-5"	6'-10"	7'-9"	8'-7"	9'-8"

- Table 1: Black bar, 0.8 Class C
- Table 2: Black bar, Top bar lap, 0.8 Class C
- Table 3: Epoxy bar, 0.8 Class C
- Table 4: Epoxy bar, Top bar lap, 0.8 Class C
- Table 5: Epoxy bar, Class C
- Table 6: Epoxy bar, Top bar top, Class C

Threaded splicer bar length = min. lap length + 1/2" + thread length

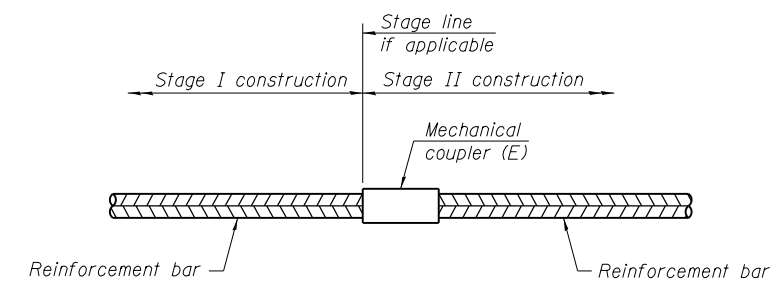
* Epoxy not required on Bar Splicer Assembly components used in conjunction with black bars.

Location	Bar size	No. assemblies required	Table for minimum lap length
Top Slab	#6	11	5
Sidewalls	#6	14	6
Bottom Slab	#6	18	5



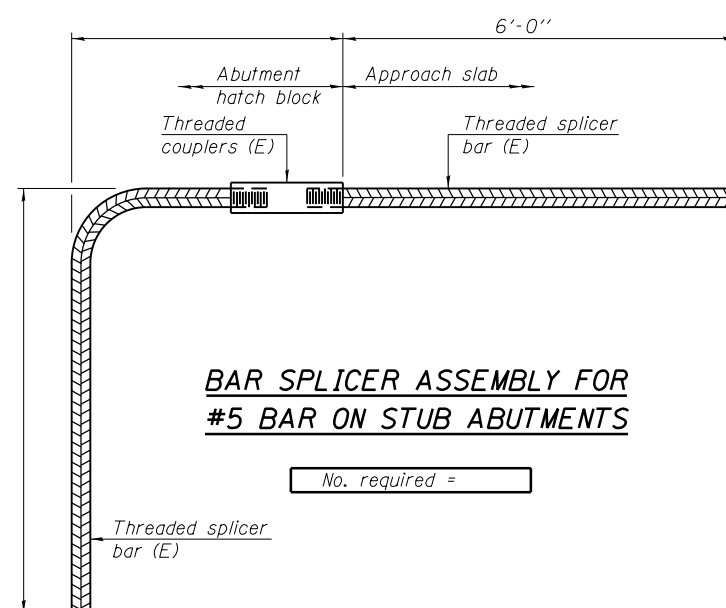
INSTALLATION AND SETTING METHODS

"A" : Set bar splicer assembly by means of a template bolt.
 "B" : Set bar splicer assembly by nailing to wood forms or cementing to steel forms.
 (E) : Indicates epoxy coating.



STANDARD MECHANICAL SPLICER

Location	Bar size	No. assemblies required



BAR SPLICER ASSEMBLY FOR #5 BAR ON STUB ABUTMENTS

No. required =

NOTES

Splicer bars shall be deformed with threaded ends and have a minimum 60 ksi yield strength.
 All reinforcement shall be lapped and tied to the splicer bars.
 Bar splicer assemblies shall be epoxy coated according to the requirements for reinforcement bars. See Section 508 of the Standard Specifications.
 See approved list of bar splicer assemblies and mechanical splicers for alternatives.

BSD-1

8-31-12

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PLOT DATE = 3/17/2015	CHECKED - APD	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BAR SPLICER ASSEMBLY AND MECHANICAL SPLICER DETAILS
S.N. 081-1119

SHEET NO. SB-5 OF SB-6 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
595	(142-1, 142)R	ROCK ISLAND	1353	964
CONTRACT NO. 64883				

ILLINOIS FED. AID PROJECT



Illinois Department of Transportation
Division of Highways
Illinois Department of Transportation D-2

SOIL BORING LOG

081-1119 D92-003-06 John Deere Road
proposed culvert, 8' x 7' box, 150' E. of 41st Street

Date 7/7/11

ROUTE FAP 595 DESCRIPTION Street LOGGED BY W. Garza

SECTION 142-R LOCATION S. Moline Twp. - 15NE, SEC., TWP. 17N, RNG. 1W

COUNTY Rock Island DRILLING METHOD Hollow Stem Auger HAMMER TYPE CME-45 Automatic

STRUCT. NO. 081-1119 Station 303+50
BORING NO. B-1 Station 303+55
Offset 95.00ft RL Med CL
Ground Surface Elev. 578.60 ft

Table with columns for Depth (ft), Blows (6"), (tsf), (%) and Soil Description. Includes entries like 'VERY STIFF brown SILTY CLAY LOAM', 'STIFF brown SILTY CLAY LOAM', etc.

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)
BBS, from 137 (Rev. 8-99)



Illinois Department of Transportation
Division of Highways
Illinois Department of Transportation D-2

SOIL BORING LOG

081-1119 D92-003-06 John Deere Road
proposed culvert, 8' x 7' box, 150' E. of 41st Street

Date 7/7/11

ROUTE FAP 595 DESCRIPTION Street LOGGED BY W. Garza

SECTION 142-R LOCATION S. Moline Twp. - 15NE, SEC., TWP. 17N, RNG. 1W

COUNTY Rock Island DRILLING METHOD Hollow Stem Auger HAMMER TYPE CME-45 Automatic

STRUCT. NO. 081-1119 Station 303+50
BORING NO. B-2 Station 303+90
Offset 0.00ft CL of Med
Ground Surface Elev. 580.80 ft

Table with columns for Depth (ft), Blows (6"), (tsf), (%) and Soil Description. Includes entries like 'STIFF brown SILTY CLAY LOAM', 'VERY STIFF brown SILTY CLAY LOAM with SILT lens', etc.

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)
BBS, from 137 (Rev. 8-99)



Illinois Department of Transportation
Division of Highways
Illinois Department of Transportation D-2

SOIL BORING LOG

081-1119 D92-003-06 John Deere Road
proposed culvert, 8' x 7' box, 150' E. of 41st Street

Date 7/8/11

ROUTE FAP 595 DESCRIPTION Street LOGGED BY W. Garza

SECTION 142-R LOCATION S. Moline Twp. - 15NE, SEC., TWP. 17N, RNG. 1W

COUNTY Rock Island DRILLING METHOD Hollow Stem Auger HAMMER TYPE CME-45 Automatic

STRUCT. NO. 081-1119 Station 303+50
BORING NO. B-3 Station 303+50
Offset 84.00ft RL Med CL
Ground Surface Elev. 575.90 ft

Table with columns for Depth (ft), Blows (6"), (tsf), (%) and Soil Description. Includes entries like 'STIFF brown SILTY CLAY LOAM', 'MEDIUM gray SILTY CLAY LOAM', etc.

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)
BBS, from 137 (Rev. 8-99)

N:\PROJECTS\0003393\CONTRACT_2\Design\Structural\CAD\Culvert_Station_303+50_081-1119-64883-005_Boring_Log.dgn



Table with columns for USER NAME, DESIGNED, CHECKED, DRAWN, PLOT SCALE, PLOT DATE, REVISED, and CHECKED.

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BORING LOGS
S.N. 081-1119
SHEET NO. SB-6 OF SB-6 SHEETS

Table with columns for F.A.P. RTE., SECTION, COUNTY, TOTAL SHEETS, SHEET NO., CONTRACT NO., and ILLINOIS FED. AID PROJECT.

Benchmark: Iron Pin, Sta. 313+85.66, 5.73' Rt. Elev. 582.94

Existing Structure: S.N. 081-1018 built as a 10'x4' reinforced Box Culvert with a 131'-10" out to out length. Existing structure to be removed and replaced. Traffic to be maintained utilizing stage construction. Temporary pavement and a temporary culvert extension will be constructed to accommodate Stage I Traffic.

Salvage: No Salvage.

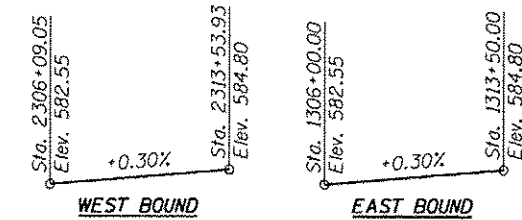
INDEX OF SHEETS:

- SC-1 General Plan & Elevation
- SC-2 Details - 1
- SC-3 Details - 2
- SC-4 Bar Splicer Assembly and Mechanical Splicer Details
- SC-5 Boring Logs

CURVE DATA

© F.A.P. 595

Δ = 26°26'36" (LT)
 D = 00°44'03"
 T = 1,833.41'
 L = 3,601.50'
 E = 212.48'
 R = 7,803.53'
 S.E. = 2.0%
 P.C. = Sta. 306+02.40
 P.T. = Sta. 342+03.89
 P.I. = Sta. 324+35.80



PROFILE GRADE

F.A.P. 595

LEGEND:

- E — Exist. Underground Electrical Line
- S — Exist. Sanitary Sewer
- W — Exist. Water Main
- SS — Prop. Storm Sewer
- AC — Exist. Access Control and Exist. ROW
- T — Temporary Soil Retention System
- B — Boring Location

DESIGN SPECIFICATIONS

2012 AASHTO LRFD Bridge Design Specifications with 2012 Interims

DESIGN STRESSES

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

LOADING HL-93

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

GENERAL NOTES:

1. Reinforcement bars designated (E) shall be epoxy coated.
2. Removal of Existing Structures shown in Removal Plans.
3. Precast alternate not allowed.

TOTAL BILL OF MATERIAL

ITEM	UNIT	TOTAL
Removal And Disposal Of Unsuitable Material For Structures	Cu Yd	551
Reinforcement Bars, Epoxy Coated	Pound	84,520
Bar Splicers	Each	115
Name Plates	Each	1
Concrete Box Culverts	Cu Yd	368.9
Rock Fill	Ton	1,020
Temporary Soil Retention System	Sq Ft	378

GENERAL PLAN & ELEVATION

JOHN DEERE ROAD (IL 5) OVER

DRAINAGE DITCH

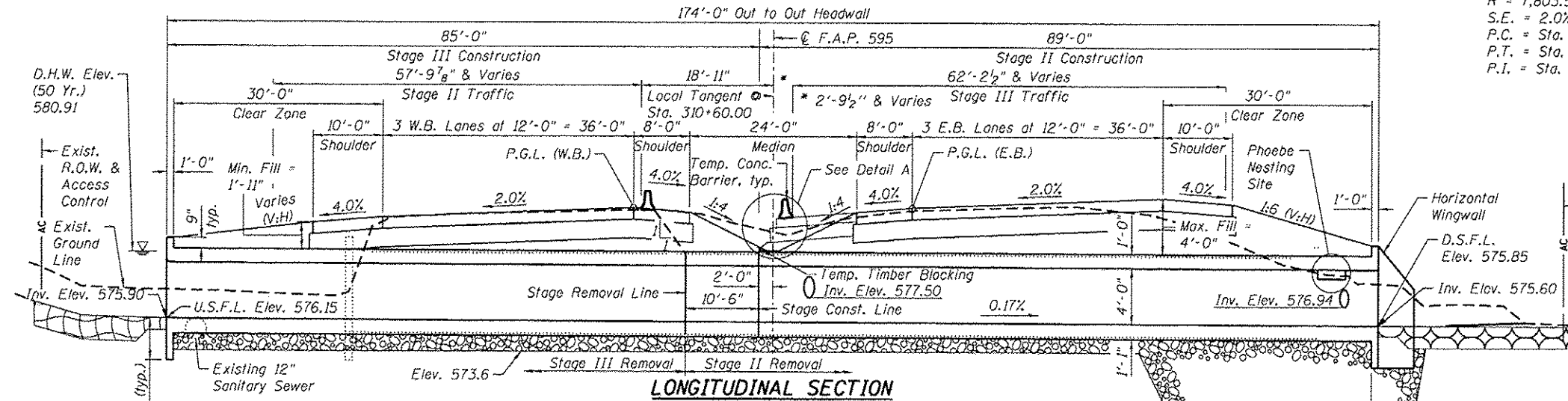
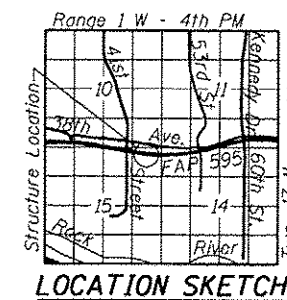
F.A.P. RTE. 595

SECTION (142-1, 142R)

ROCK ISLAND COUNTY

STATION 310+60.00

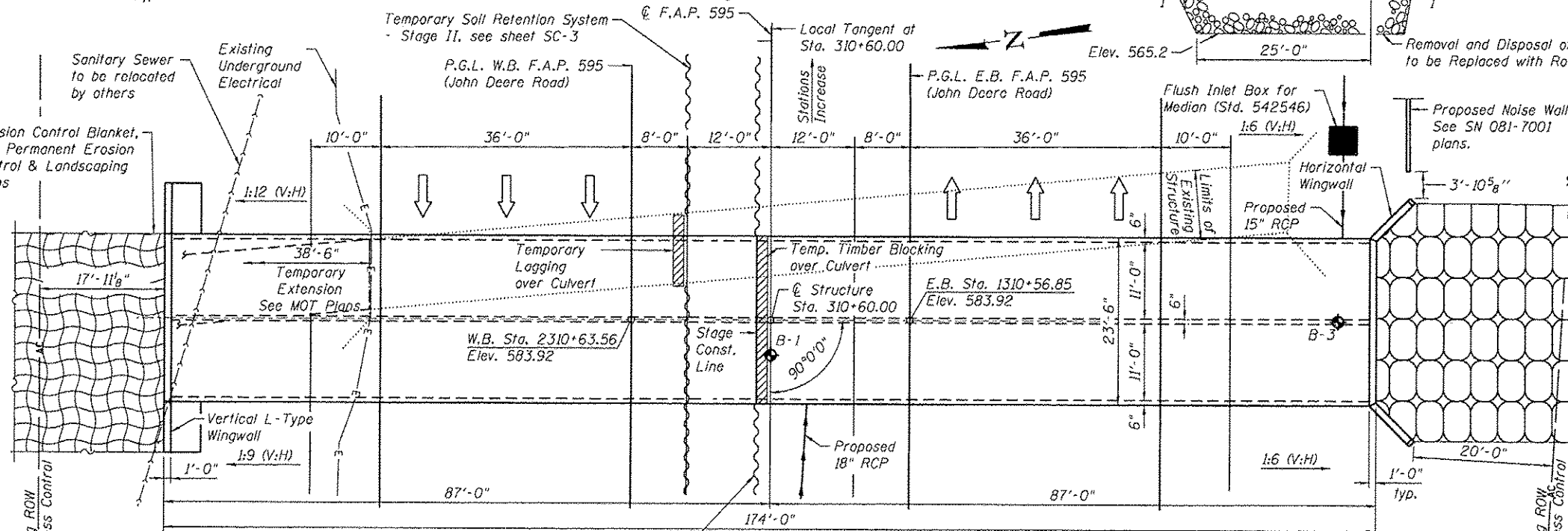
S.N. 081-1120



LONGITUDINAL SECTION

(Looking East)

(Dimensions at Rt L's to local tangent at Sta. 310+60.00 unless otherwise noted)



PLAN

WATERWAY INFORMATION TABLE

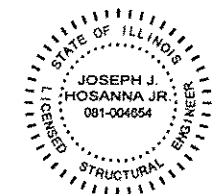
Flood	Freq. Yr.	C.F.S.		Opening Sq. Ft.		Headwater El.	
		0	10	Exist.	Prop.	Exist.	Prop.
Design	10	246	40	88	--	579.23	--
Base	50	467	40	88	583.98	580.91	--
Overtopping (Existing)	100	598	40	88	584.31	582.00	--
Overtopping (Proposed)	<50	358	40	88	583.55	--	--
Max. Calc.	100+	717	40	88	--	583.02	--
	500	1017	40	88	585.09	583.43	--

DESIGN SCOUR ELEVATION TABLE

Design Scour Elevation (ft.)	Upstream	Downstream
	572.80	572.60

APPROVED
 For Structural Adequacy Only

Joseph J. Hosanna Jr.
 Engineer of Bridges & Structures



DATE: 3/17/2015
 SEAL EXPIRES: 1/30/2020

STATION 310+60.00
 BUILT 20... BY
 STATE OF ILLINOIS
 F.A.P. RT. 595
 SEC. (142-1, 142R)
 LOADING HL-93
 STRUCTURE NO. 081-1120

NAME PLATE
 See Std. 515001

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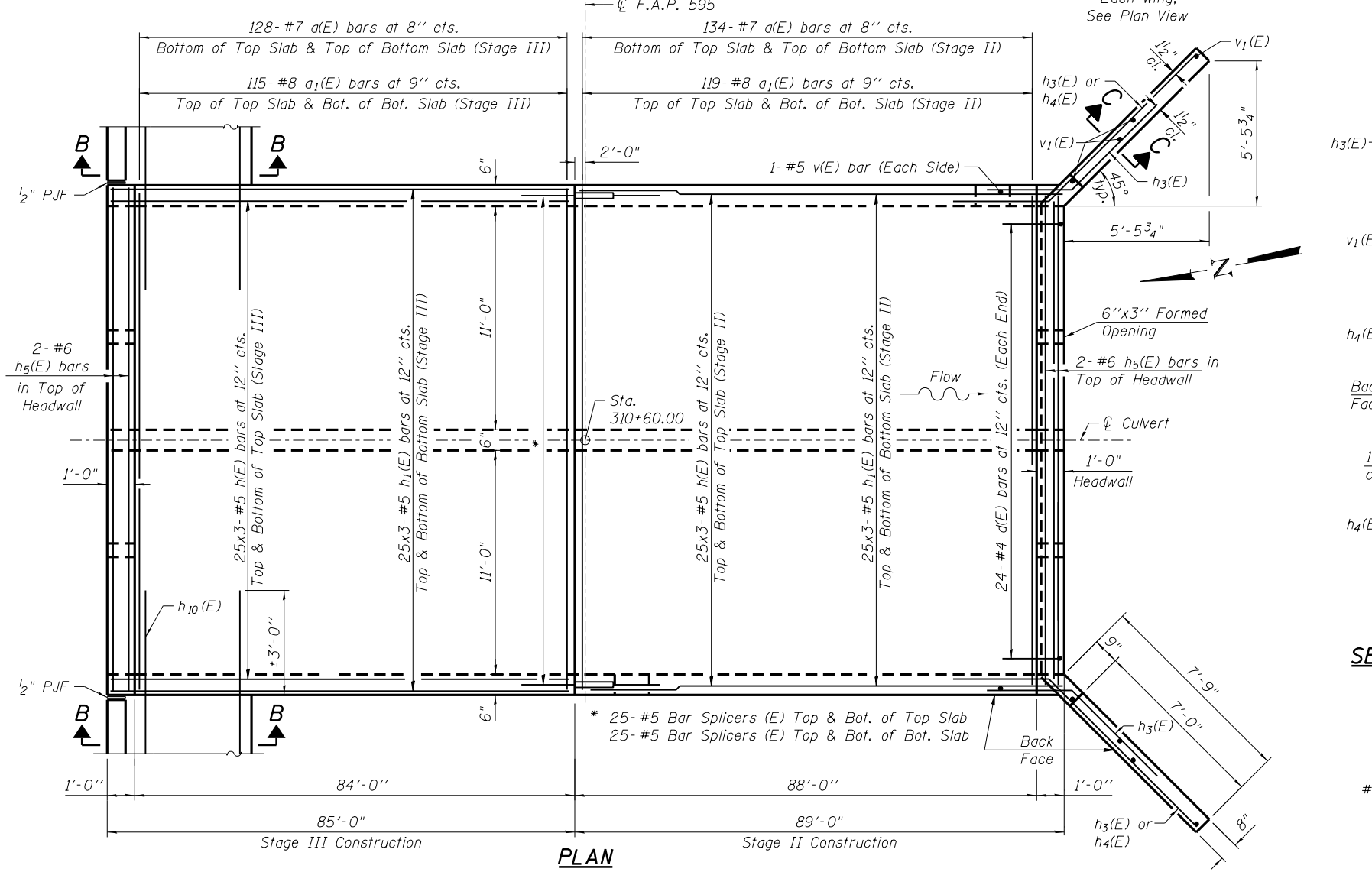
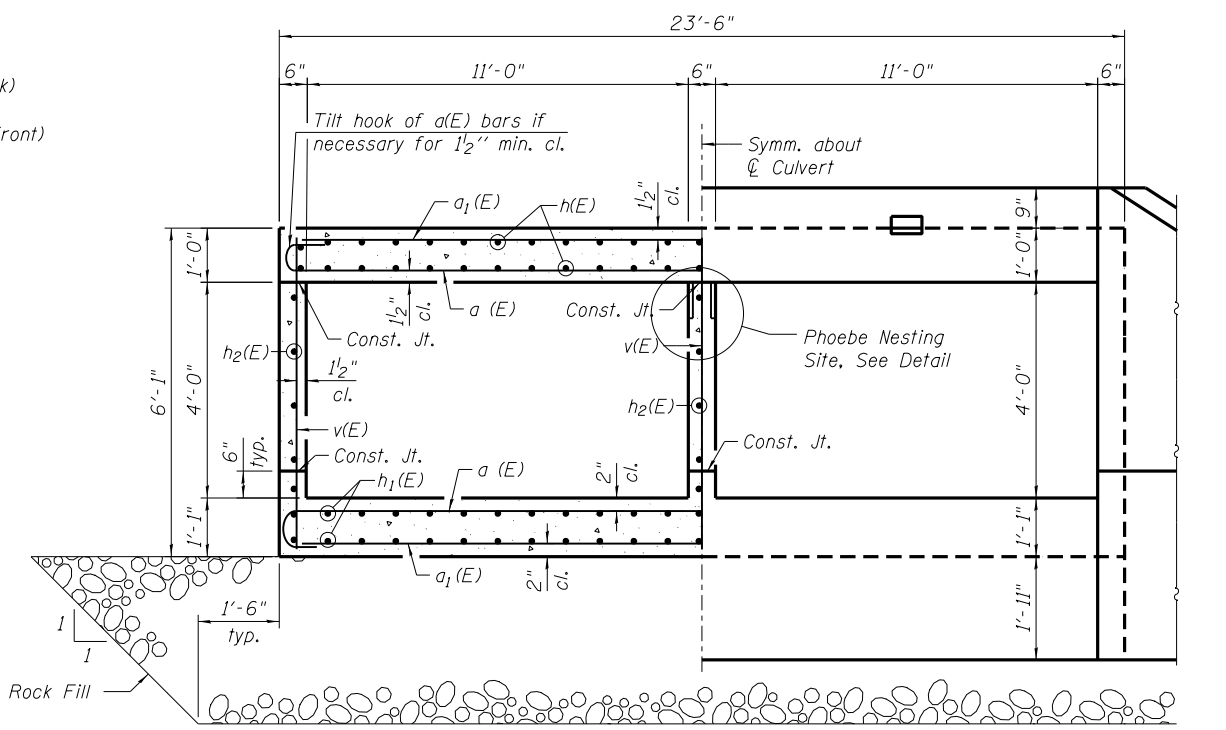
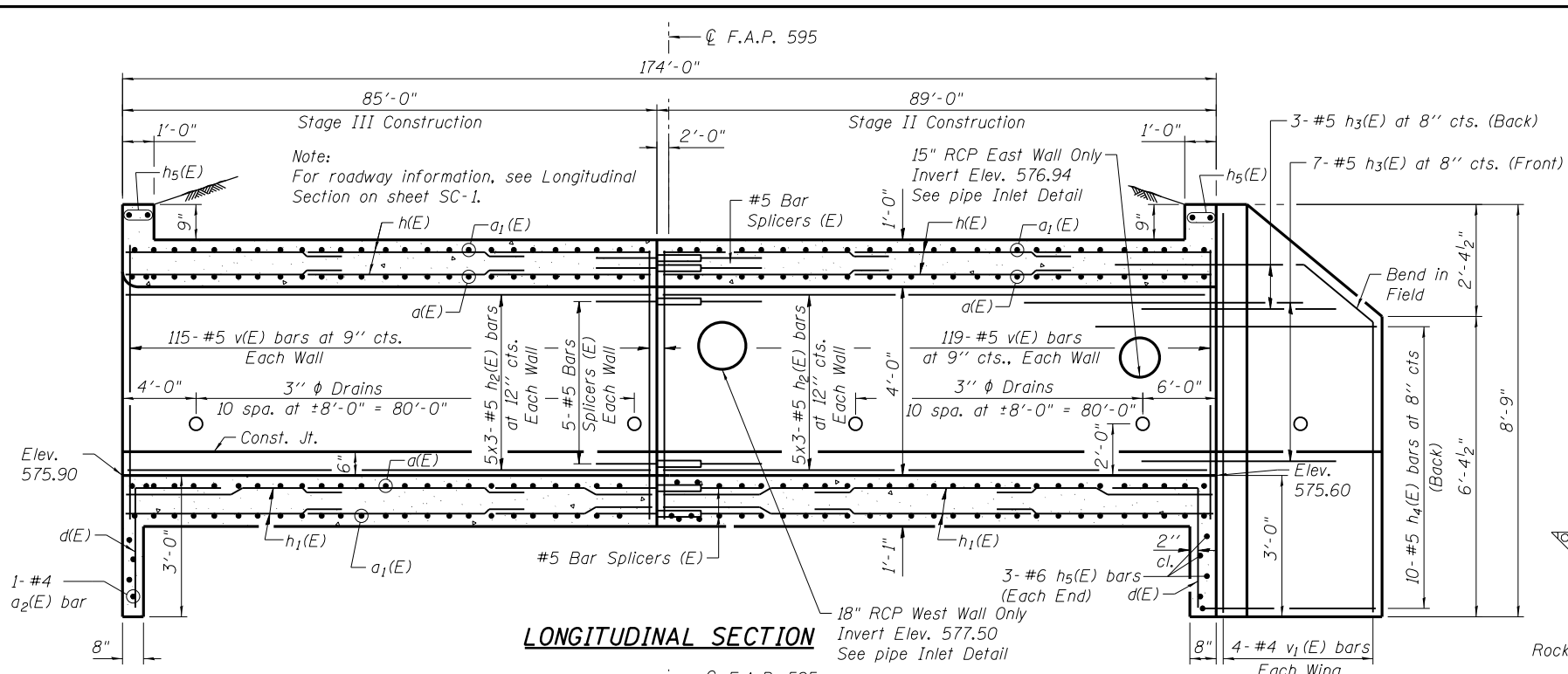
CG **Clarks Group, Inc.**
 CONSULTING ENGINEERS
 801 West Commercial Avenue
 Suite 100, Chicago, Illinois 60610
 Tel: 773-371-0000
 Fax: 773-371-0001
 www.clarksgroup.com

USER NAME	DESIGNED	BWS	REVISOR
soligood	-	-	-
	CHECKED	APD	REVISOR
	DRAWN	RD	REVISOR
	CHECKED	APD	REVISOR

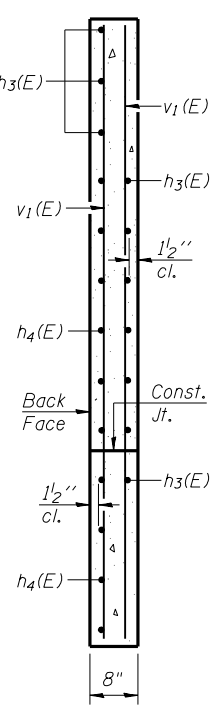
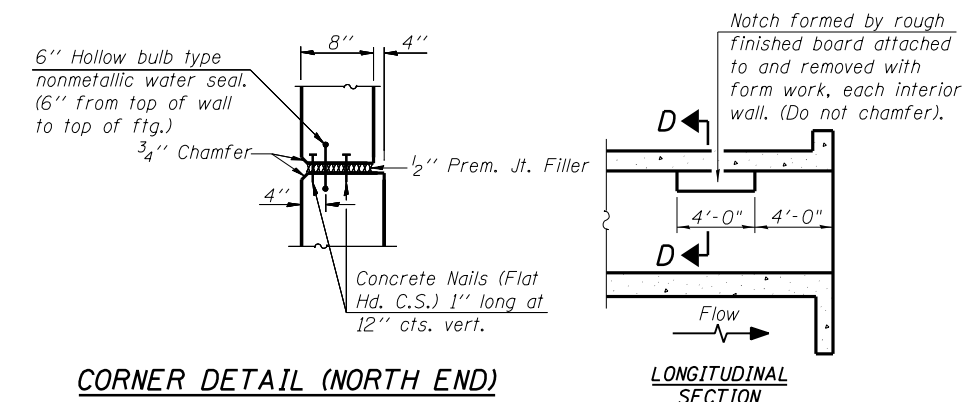
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
595	(142-1, 142R)	ROCK ISLAND	1353	966

CONTRACT NO.	DATE
64883	ILLINOIS FED. AID PROJECT

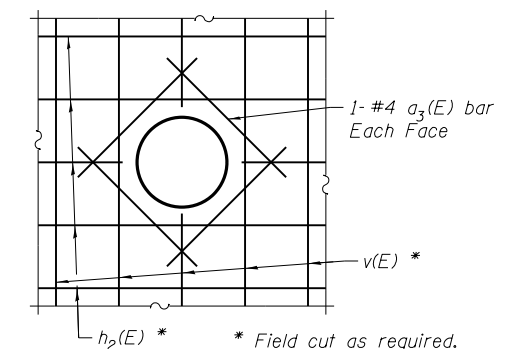


HALF SECTION THRU BARREL HALF END ELEVATION (SOUTH END)

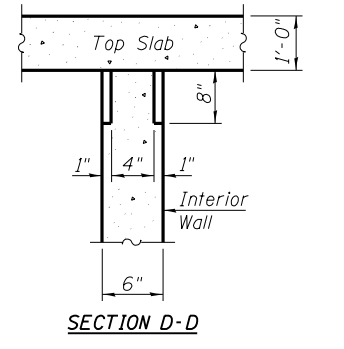


SECTION C-C

MIN. LAP
#5 bar = 3'-3"



PIPE INLET DETAIL



PHOEBE NESTING SITE DETAILS (Downstream End Only)

- NOTES:**
1. A distance of half the length of the horizontal wingwall but not less than six feet of the barrel shall be poured monolithically with the horizontal wingwalls.
 2. Bars indicated thus 12x4- #5 etc. indicates 12 lines of bars with 4 lengths per line.
 3. For Rebar Details, Bill of Material, North Wingwall Details and Section B-B, see Sheet SC-3.

N:\PROJECTS\00033333\CONTRACT_2\Design\Structural\CAD\Culvert_Std_310-60_081-1120\081-1120-64883-002_Details-1.dgn
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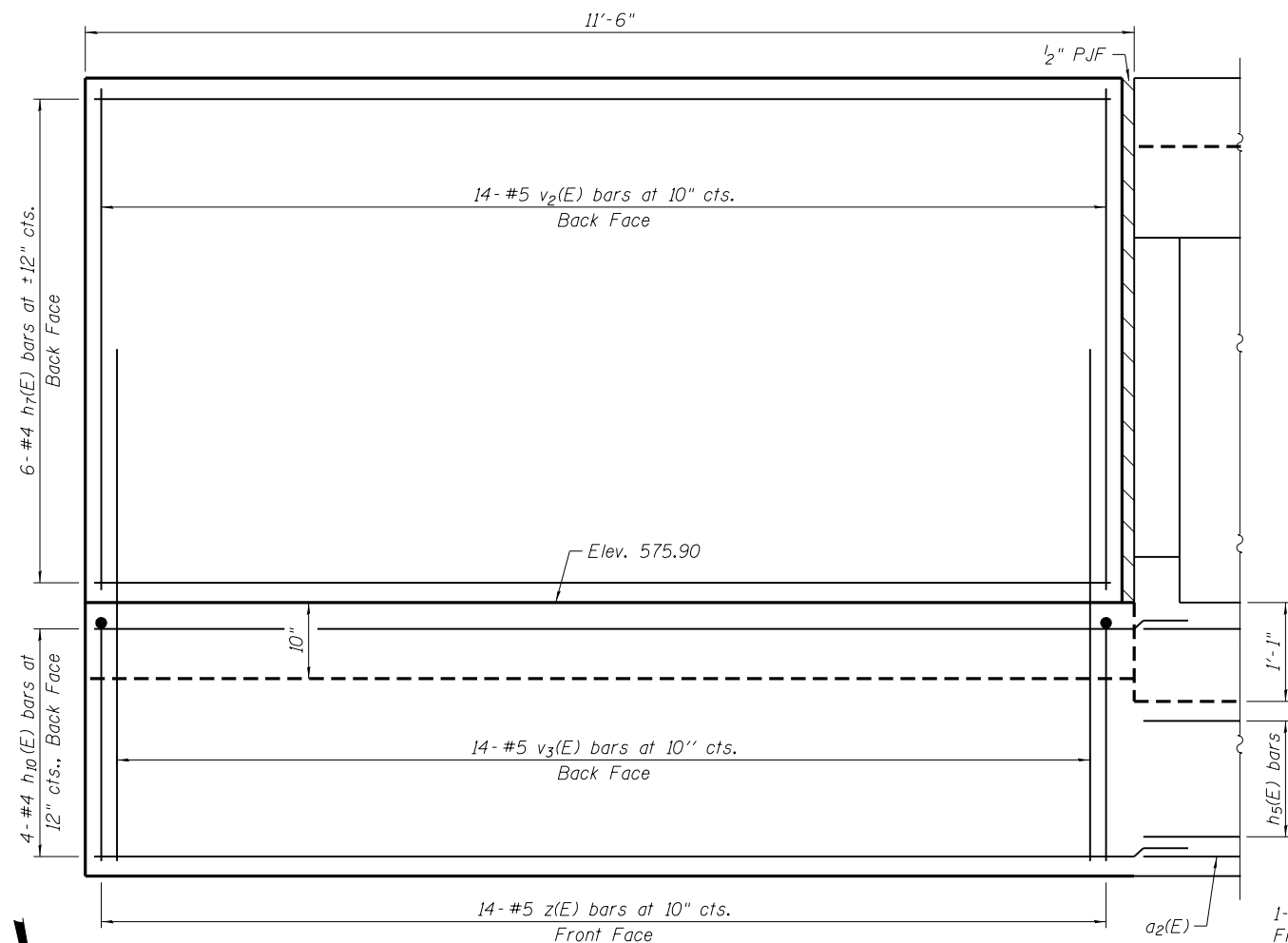
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PLOT DATE = 3/17/2015	DRAWN - RD	REVISED -
	CHECKED - BWS	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**DETAILS - 1
S.N. 081-1120**

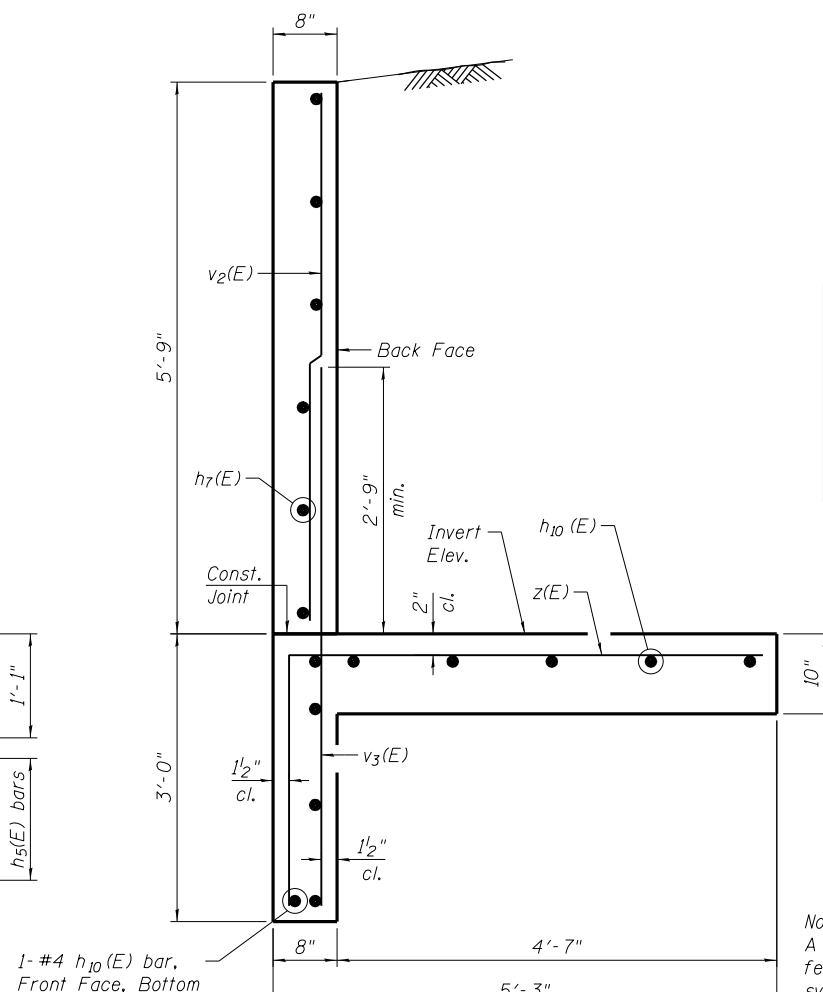
SHEET NO. SC-2 OF SC-5 SHEETS

F.A.P. RTE. 595	SECTION (142-1, 142R)	COUNTY ROCK ISLAND	TOTAL SHEETS 1353	SHEET NO. 967
				CONTRACT NO. 64883
ILLINOIS FED. AID PROJECT				



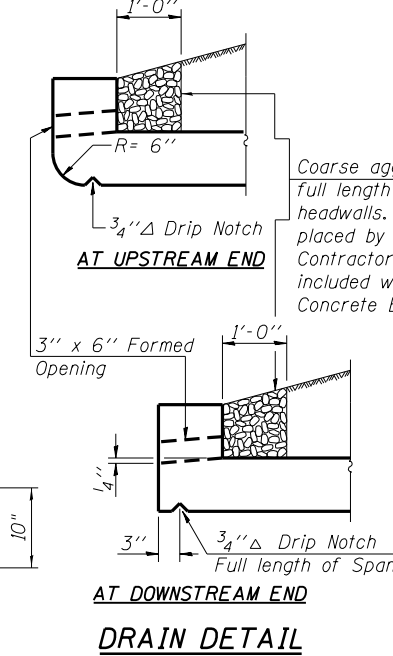
NORTH WINGWALL - ELEVATION

(Northeast wingwall shown
Northwest wingwall similar)

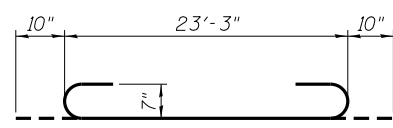


SECTION B-B

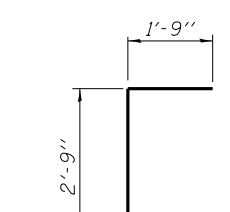
Note:
A cantilevered sheet piling design does not appear feasible and additional members of other retention system may be necessary. The Contractor shall submit a temporary soil retention system design including plan details and calculations for review and acceptance by the Engineer.



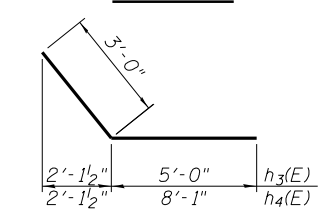
DRAIN DETAIL



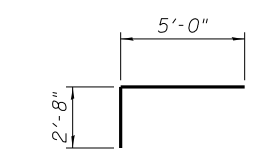
BAR a(E)



BAR d(E)



BARS h3(E) & h4(E)



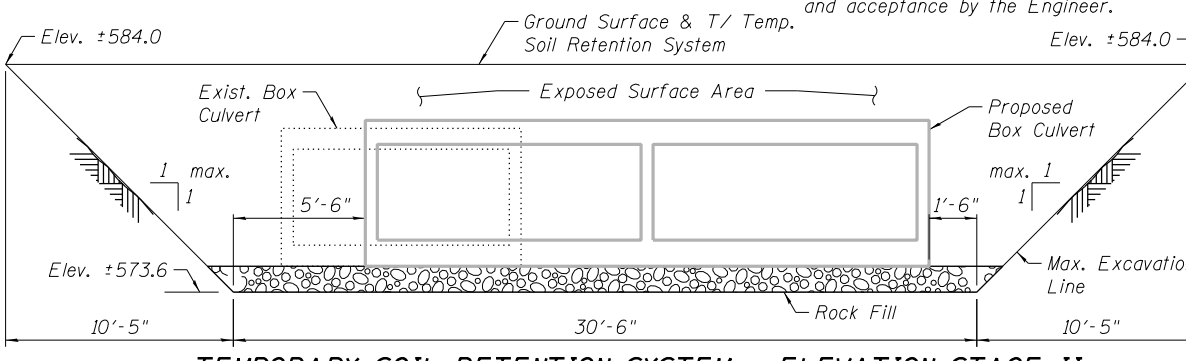
BAR z(E)

MIN. LAP

#5 bar = 3'-3"

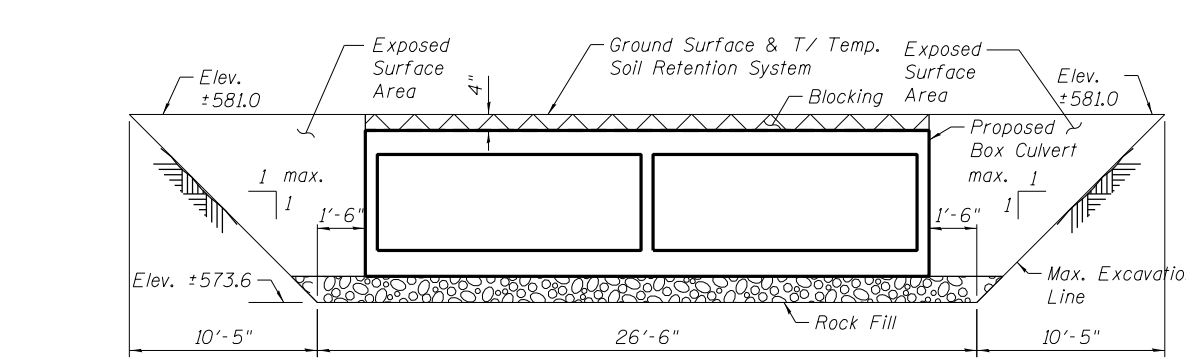
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a(E)	524	# 7	24'-11"	U
a1(E)	468	# 8	23'-2"	—
a2(E)	1	# 4	23'-2"	—
a3(E)	16	# 4	3'-0"	—
d(E)	48	# 4	4'-6"	U
h(E)	300	# 5	31'-9"	—
h1(E)	300	# 5	31'-9"	—
h2(E)	90	# 5	31'-9"	—
h3(E)	20	# 5	8'-0"	—
h4(E)	20	# 5	11'-1"	—
h5(E)	10	# 6	23'-2"	—
h7(E)	12	# 4	11'-1"	—
h10(E)	20	# 4	14'-3"	—
v(E)	704	# 5	5'-9"	—
v1(E)	8	# 4	8'-5"	—
v2(E)	28	# 5	5'-5"	—
v3(E)	28	# 5	5'-7"	—
z(E)	28	# 5	7'-8"	—
Concrete Box Culverts		Cu. Yd.		368.9
Reinforcement Bars, Epoxy Coated		Pound		84,520
Temporary Soil Retention System		Sq. Ft.		378



TEMPORARY SOIL RETENTION SYSTEM - ELEVATION STAGE II

(Looking South)



TEMPORARY SOIL RETENTION SYSTEM - ELEVATION STAGE III

(Looking South)

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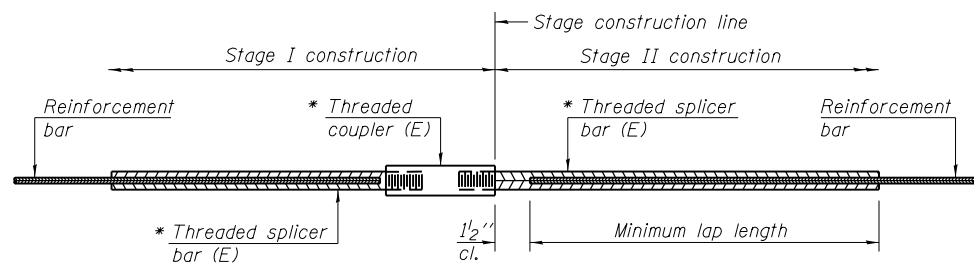
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	CHECKED - APD	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**DETAILS - 2
S.N. 081-1120**

SHEET NO. SC-3 OF SC-5 SHEETS

F.A.P. RTE. 595	SECTION (142-1, 142R)	COUNTY ROCK ISLAND	TOTAL SHEETS 1353	SHEET NO. 968
				CONTRACT NO. 64883
ILLINOIS FED. AID PROJECT				



STANDARD BAR SPLICER ASSEMBLY

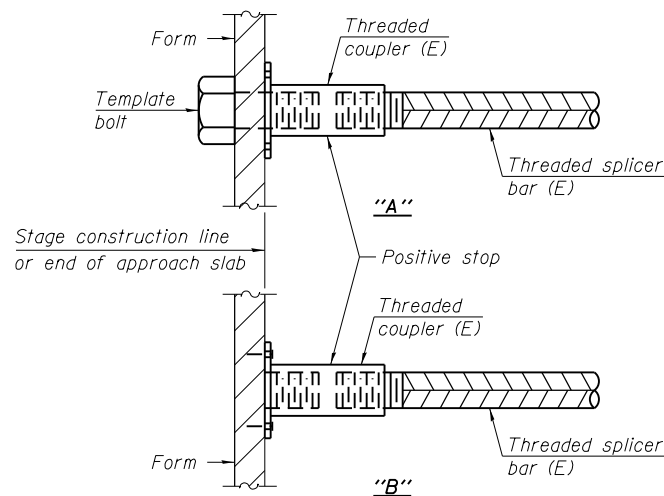
Minimum Lap Lengths						
Bar size to be spliced	Table 1	Table 2	Table 3	Table 4	Table 5	Table 6
3, 4	1'-5"	1'-11"	2'-1"	2'-4"	2'-7"	2'-11"
5	1'-9"	2'-5"	2'-7"	2'-11"	3'-3"	3'-8"
6	2'-1"	2'-11"	3'-1"	3'-6"	3'-10"	4'-5"
7	2'-9"	3'-10"	4'-2"	4'-8"	5'-2"	5'-10"
8	3'-8"	5'-1"	5'-5"	6'-2"	6'-9"	7'-8"
9	4'-7"	6'-5"	6'-10"	7'-9"	8'-7"	9'-8"

- Table 1: Black bar, 0.8 Class C
- Table 2: Black bar, Top bar lap, 0.8 Class C
- Table 3: Epoxy bar, 0.8 Class C
- Table 4: Epoxy bar, Top bar lap, 0.8 Class C
- Table 5: Epoxy bar, Class C
- Table 6: Epoxy bar, Top bar top, Class C

Threaded splicer bar length = min. lap length + 1/2" + thread length

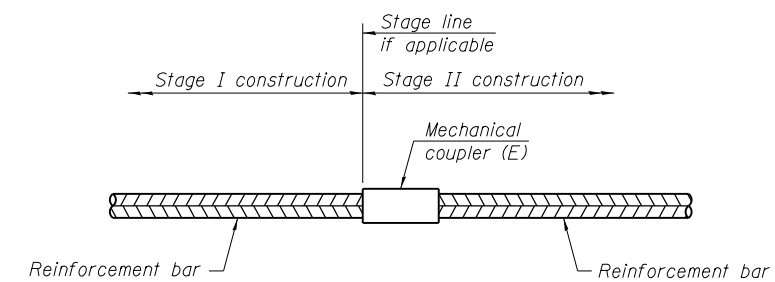
* Epoxy not required on Bar Splicer Assembly components used in conjunction with black bars.

Location	Bar size	No. assemblies required	Table for minimum lap length
Top Slab	#5	50	Table 5
Bottom Slab	#5	50	Table 5
Walls	#5	15	Table 6



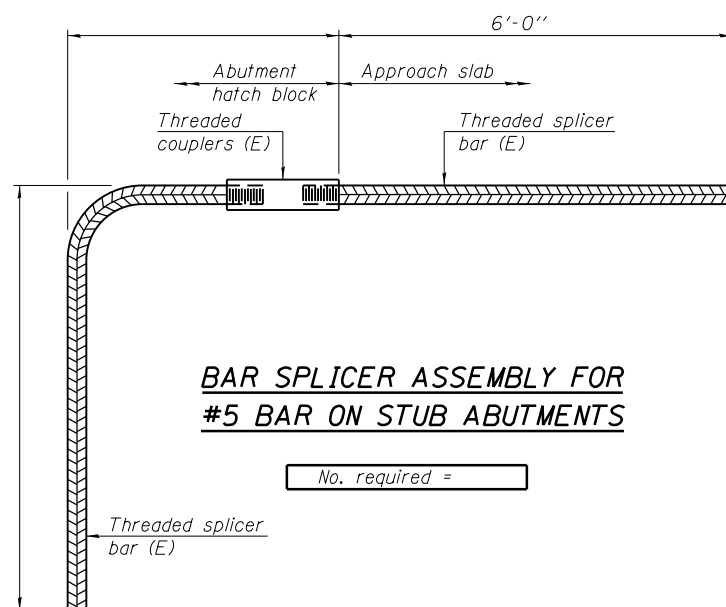
INSTALLATION AND SETTING METHODS

"A" : Set bar splicer assembly by means of a template bolt.
 "B" : Set bar splicer assembly by nailing to wood forms or cementing to steel forms.
 (E) : Indicates epoxy coating.



STANDARD MECHANICAL SPLICER

Location	Bar size	No. assemblies required



BAR SPLICER ASSEMBLY FOR #5 BAR ON STUB ABUTMENTS

No. required =

NOTES

Splicer bars shall be deformed with threaded ends and have a minimum 60 ksi yield strength.
 All reinforcement shall be lapped and tied to the splicer bars.
 Bar splicer assemblies shall be epoxy coated according to the requirements for reinforcement bars. See Section 508 of the Standard Specifications.
 See approved list of bar splicer assemblies and mechanical splicers for alternatives.

BSD-1

8-31-12

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BAR SPLICER ASSEMBLY AND MECHANICAL SPLICER DETAILS
S.N. 081-1120

SHEET NO. SC-4 OF SC-5 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
595	(142-1, 142)R	ROCK ISLAND	1353	969
CONTRACT NO. 64883				

ILLINOIS FED. AID PROJECT

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Structure Geotechnical Report
 IL Rte. 5 (John Deere Road)
 S.N. 081-1120
 Page 1 of 1

Illinois Department of Transportation
 Division of Highways
 Illinois Department of Transportation/D-2

SOIL BORING LOG

081-1120 D92-003-06 John Deere Road
 proposed culvert, double 7' x 4' box, 16 m. E. of
 41st Street
 Date 7/7/11
 LOGGED BY W. Garza

ROUTE FAP 595 DESCRIPTION LOCATION S. Moline Twp. - 15NE, SEC., TWP. 17N, R1G. 1W
 SECTION 142-R COUNTY Rock Island DRILLING METHOD Hollow Stem Auger HAMMER TYPE CME-45 Automatic

STRUCT. NO.	D E L C S				U M O I S T			
Station	P	T	W	Q	H	S	Qu	T
081-1120 310+60								
BORING NO. B-1 Station 310+55 Offset 0.000 CL Med Ground Surface Elev. 582.10								
Surface Water Elev. _____ ft								
Stream Bed Elev. _____ ft								
Groundwater Elev.: First Encounter _____ ft Upon Completion _____ ft After _____ Hrs. _____ ft								
SOFT brown SILTY CLAY LOAM	15	18.0			8	6.1	21.0	
					12			
580.10								
MEDIUM brown SILTY CLAY LOAM	3							
	2	6.8	22.0					
578.60	4							
MEDIUM tan SILTY CLAY LOAM	1							
	2	0.7	24.0					
576.10	3							
VERY SOFT tan SILTY LOAM	2							
	1	0.3	27.0					
573.10	3							
VERY LOOSE tan dirty SAND with medium moist GRAVEL	2							
	1		21.0					
570.60	3							
VERY SOFT gray SILT	0							
	0	0.2	32.0					
568.60	2							
SOFT gray SILT LOAM with ORGANICS	0							
	1	0.4	38.0					
566.10	2							
VERY SOFT gray SILT	0							
	0	0.3	30.0					
563.60	4							
	2							
561.10								

HARD graytan CLAY with COAL fragments (continued)
 VERY DENSE gray SHALE with COAL lens
 End of Boring

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
 The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)
 BBS, from 137 (Rev. 8-99)

Structure Geotechnical Report
 IL Rte. 5 (John Deere Road)
 S.N. 081-1120
 Page 1 of 1

Illinois Department of Transportation
 Division of Highways
 Illinois Department of Transportation/D-2

SOIL BORING LOG

081-1120 D92-003-06 John Deere Road
 proposed culvert, double 7' x 4' box, 16 m. E. of
 41st Street
 Date 7/7/11
 LOGGED BY W. Garza

ROUTE FAP 595 DESCRIPTION LOCATION S. Moline Twp. - 15NE, SEC., TWP. 17N, R1G. 1W
 SECTION 142-R COUNTY Rock Island DRILLING METHOD Hollow Stem Auger HAMMER TYPE CME-45 Automatic

STRUCT. NO.	D E L C S				U M O I S T			
Station	P	T	W	Q	H	S	Qu	T
081-1120 310+60								
BORING NO. B-2 Station 310+29 Offset 87.00Rt LI Med CL Ground Surface Elev. 581.50								
Surface Water Elev. _____ ft								
Stream Bed Elev. _____ ft								
Groundwater Elev.: First Encounter _____ ft Upon Completion _____ ft After _____ Hrs. _____ ft								
VERY STIFF brown SILTY CLAY LOAM	3.5				10.0			
579.50								
MEDIUM light brown SILTY CLAY LOAM	2							
	3	0.8	24.0					
578.00	4							
SOFT light brown/gray SILTY CLAY LOAM	2							
	1	0.5	28.0					
575.50	3							
SOFT tan SILTY LOAM	0							
	2	0.3	28.0					
572.50	2							
LOOSE tan dirty SAND with medium moist GRAVEL	0							
	1		26.0					
570.00	3							
MEDIUM gray/red CLAY LOAM	1							
	2	0.8	30.0					
568.00	3							
SOFT reddish brown CLAY LOAM	1							
	2	0.3	27.0					
565.00	2							
DENSE gray SHALE	10							
	12							
563.00	21							
VERY DENSE gray SHALE	20							
561.00	29							

VERY DENSE gray SHALE (continued)
 End of Boring

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
 The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)
 BBS, from 137 (Rev. 8-99)

Structure Geotechnical Report
 IL Rte. 5 (John Deere Road)
 S.N. 081-1120
 Page 1 of 1

Illinois Department of Transportation
 Division of Highways
 Illinois Department of Transportation/D-2

SOIL BORING LOG

081-1120 D92-003-06 John Deere Road
 proposed culvert, double 7' x 4' box, 16 m. E. of
 41st Street
 Date 7/8/11
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ROUTE FAP 595 DESCRIPTION LOCATION S. Moline Twp. - 15NE, SEC., TWP. 17N, R1G. 1W
 SECTION 142-R COUNTY Rock Island DRILLING METHOD Hollow Stem Auger HAMMER TYPE CME-45 Automatic

STRUCT. NO.	D E L C S				U M O I S T			
Station	P	T	W	Q	H	S	Qu	T
081-1120 310+60								
BORING NO. B-3 Station 310+80 Offset 81.50Rt Med CL Ground Surface Elev. 579.20								
Surface Water Elev. _____ ft								
Stream Bed Elev. _____ ft								
Groundwater Elev.: First Encounter _____ ft Upon Completion _____ ft After _____ Hrs. _____ ft								
STIFF brown SILTY CLAY LOAM	1.3				19.0			
577.20								
STIFF brown SILTY CLAY LOAM	2							
	3	1.8	22.0					
575.70	4							
MEDIUM tan SILTY CLAY LOAM	2							
	2	0.7	28.0					
573.20	4							
MEDIUM tan SILTY LOAM	2							
	2	0.6	28.0					
570.70	3							
STIFF gray SILTY LOAM with SAND lens	0							
	1	1.4	26.0					
568.20	4							
MEDIUM gray SILTY LOAM with SAND lens	0							
	2	0.7	31.0					
565.70	2							
SOFT gray SILTY CLAY with 12% ORGANICS	0							
	0	0.3	83.0					
563.20	2							
MEDIUM gray SILTY CLAY with 10% ORGANICS	0							
	1	0.5	41.0					
560.70	2							
MEDIUM gray SILTY CLAY	0							
558.20								

MEDIUM gray SILTY CLAY (continued)
 VERY DENSE gray SHALE
 VERY DENSE gray SHALE
 End of Boring

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
 The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)
 BBS, from 137 (Rev. 8-99)

Bench Mark: Traffic signal foundation along Rte. 5 Sta. 334+45.00 and 63,9899' LT. Elev. 590.7050

Existing Structure: The structure is a 42" reinforced concrete pipe culvert approximately 139'-5" long. Existing structure to be removed and replaced. Traffic to be maintained utilizing stage construction. Temporary pavement and a temporary culvert extension will be constructed to accommodate Stage II and Stage III Traffic.

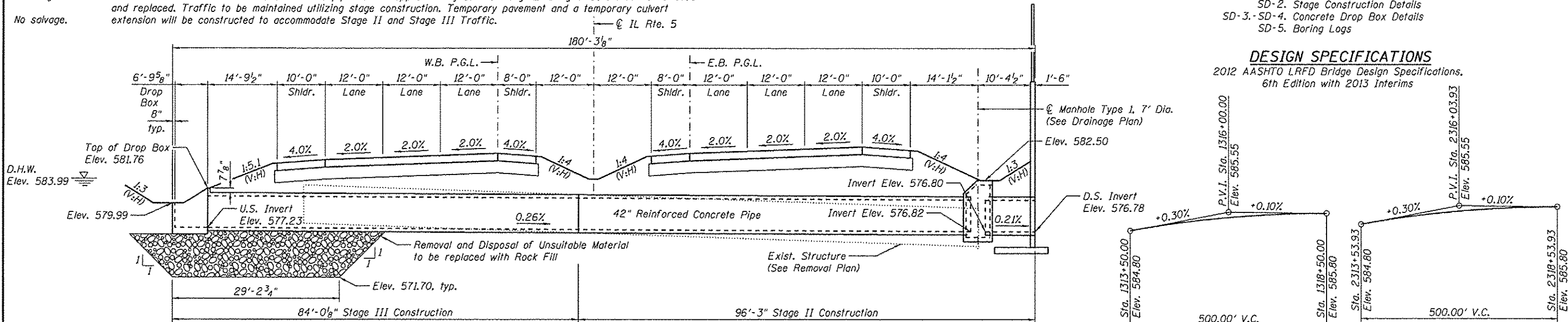
No salvage.

INDEX OF SHEETS

- SD-1. General Plan and Elevation
- SD-2. Stage Construction Details
- SD-3. SD-4. Concrete Drop Box Details
- SD-5. Boring Logs

DESIGN SPECIFICATIONS

2012 AASHTO LRFD Bridge Design Specifications, 6th Edition with 2013 Interims



LONGITUDINAL SECTION

(Dimensions along C at Rt. L's to C Roadway) (Looking East)

PROPOSED PROFILE GRADE

(Along P.G.L. of Eastbound Roadway)

PROPOSED PROFILE GRADE

(Along P.G.L. of Westbound Roadway)

DESIGN STRESSES

FIELD UNITS

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

PRECAST UNITS

f'c = 5,000 psi
fy = 60,000 psi (Reinforcement)
fy = 65,000 psi (Welded Wire Fabric)

CURVE DATA

PROP. CURVE 72270
PI STA. = 1324+36.18
Δ = 26° 26' 36" (LT)
D = 0° 43' 56"
R = 7,823.53'
T = 1,838.11'
L = 3,610.73'
E = 213.03'
P.C. STA = 1305+98.07
P.T. STA = 1342+08.80

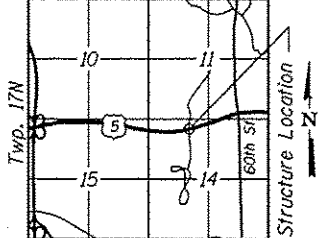
CURVE DATA

PROP. CURVE 72370
PI STA. = 2324+35.84
Δ = 26° 26' 36" (LT)
D = 0° 44' 10"
R = 7,783.53'
T = 1,828.71'
L = 3,592.27'
E = 211.94'
P.C. STA = 2306+07.13
P.T. STA = 2341+99.39

CURVE DATA

EXIST. CURVE 595D
PI STA. = 324+35.80
Δ = 26° 26' 36" (LT)
D = 0° 44' 03"
R = 7,803.53'
T = 1,833.41'
L = 3,601.50'
E = 212.48'
e = 2.0%
P.C. STA = 306+02.40
P.T. STA = 342+03.89

LOCATION SKETCH



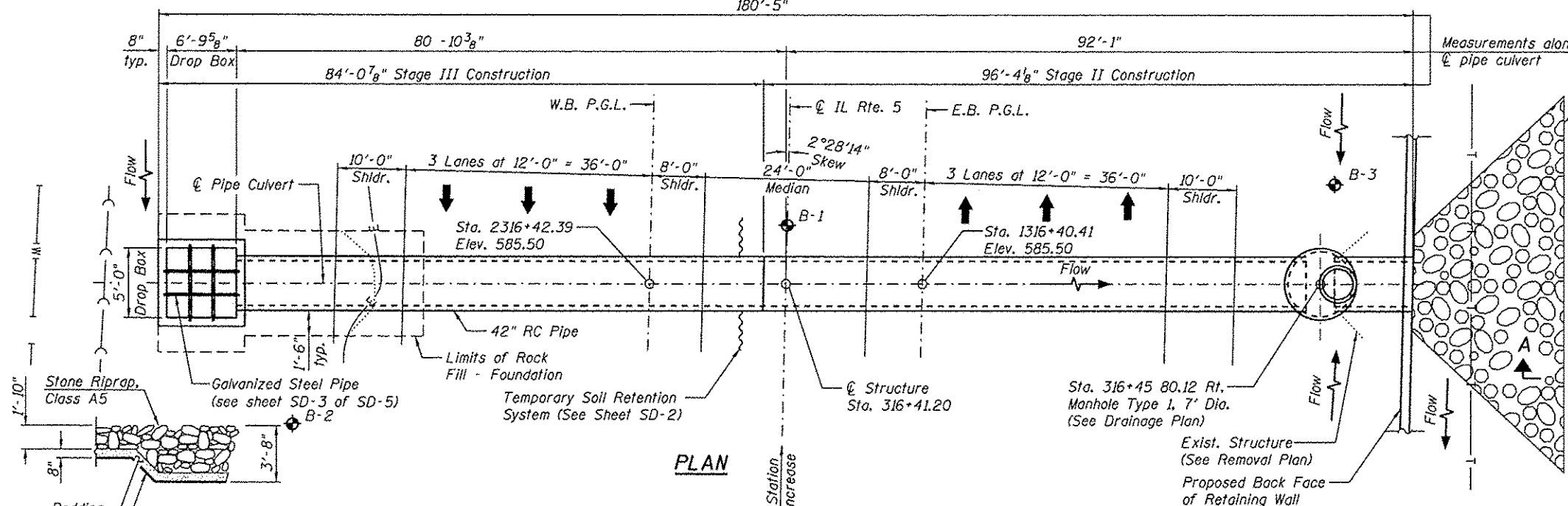
**GENERAL PLAN & ELEVATION
IL Rte. 5/JOHN DEERE ROAD
OVER DRAINAGE DITCH**

F.A.P. RTE. 595 - SEC. (142-1, 142)R

ROCK ISLAND COUNTY

STA. 316+41.20

S.N. 081-1121



PLAN

WATERWAY INFORMATION

Drainage Area = 34 Acres
Existing Low Grade Elev. 584.90 @ Sta. 316+00
Proposed Low Grade Elev. 584.70 @ Sta. 316+00

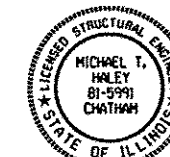
Flood	Freq. Yr.	Q C.F.S.	Opening Sq. Ft.		Headwater El.	
			Exist.	Prop.	Exist.	Prop.
Design	10	42	-	5.7	-	581.44
Base	50	82	9.6	8.3	584.63	583.99
OVT(E)	100	104	9.6	9.0	584.95	584.42
OVT(P)	>50	86	9.6	-	584.90	-
Max. Calc.	>100	106	-	9.3	-	584.70
	500	177	9.6	9.6	585.05	584.83

10-Year Outlet Velocity from Existing Structure = N/A
10-Year Outlet Velocity from Proposed Structure = 7.31 fps

TOTAL BILL OF MATERIAL

Item	Unit	Total
Removal and Disposal of Unsuitable Material for Structures	Cu. Yd.	83
Concrete Structures	Cu. Yd.	3.4
Reinforcement Bars, Epoxy Coated	Pound	680
Rock Fill	Ton	155
Temporary Soil Retention System	Sq. Ft.	26

Note:
Refer to Schedule of Quantities for Trench Backfill and Pipe Culvert, Class A, Type 2 42" Information.



Michael T. Haley
Licensed Structural Engineer
State of Illinois No. 81-5991
Expires 11/30/2016

1-20-2015 Date

DESIGN SCOUR ELEVATION TABLE

Design Scour Elevation (ft.)	Upstream	Downstream
	576.54	576.28

GENERAL NOTES

Concrete Pipe Culvert shall conform to the requirements of Section 542 of the Standard Specifications and the applicable requirements of AASHTO M259.
Pipe Culvert shall be constructed before placing embankment for roadway.
See Landscaping Plan for Riprap details and quantities.



USER NAME	DESIGNED	REVISION
JJA	JJA	
TBP	TBP	
JJA	JJA	
TBP	TBP	

FILE NAME	CHECKED	REVISION
JJA	JJA	
TBP	TBP	
JJA	JJA	
TBP	TBP	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

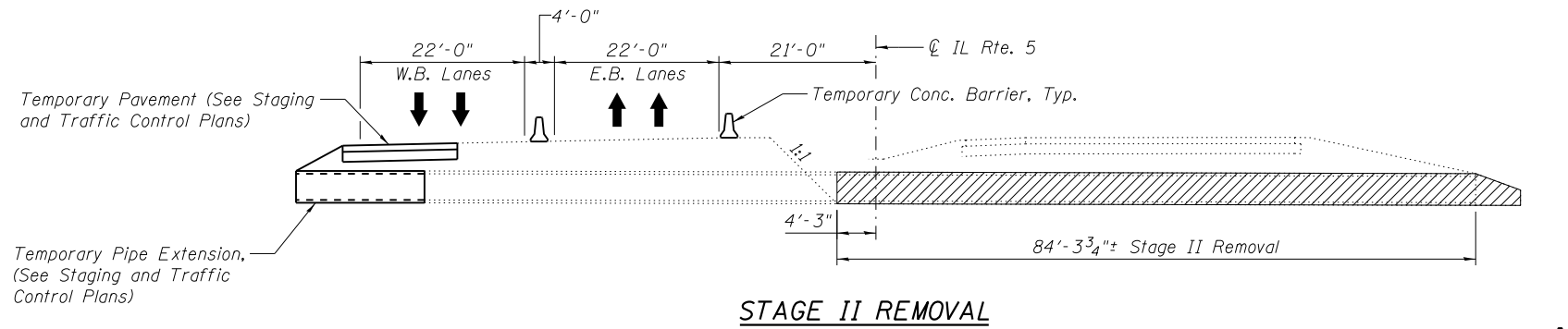
GENERAL PLAN & ELEVATION
S.N. 081-1121

SHEET NO. SD-1 OF SD-5 SHEETS

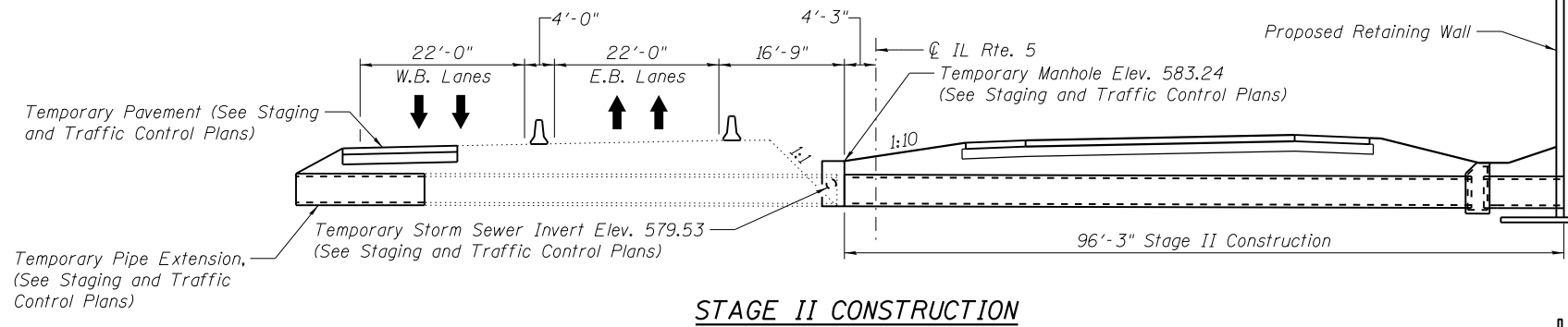
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
595	(142-1, 142)R	ROCK ISLAND	1353	971

CONTRACT NO. 64BB3

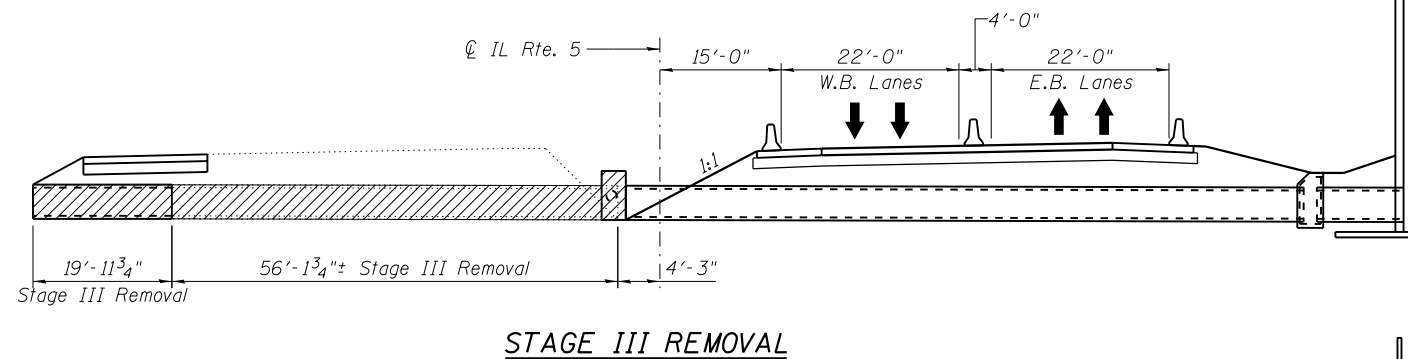
ILLINOIS FED. AID PROJECT



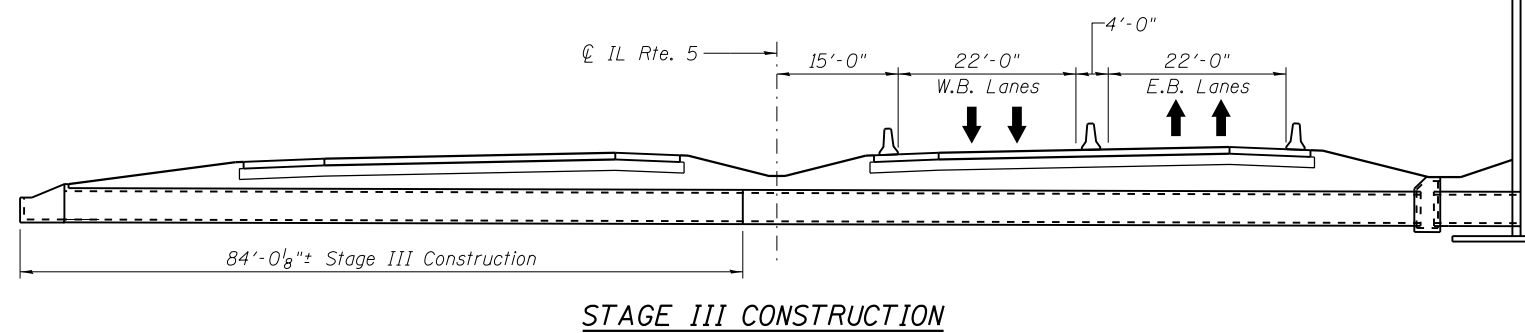
STAGE II REMOVAL



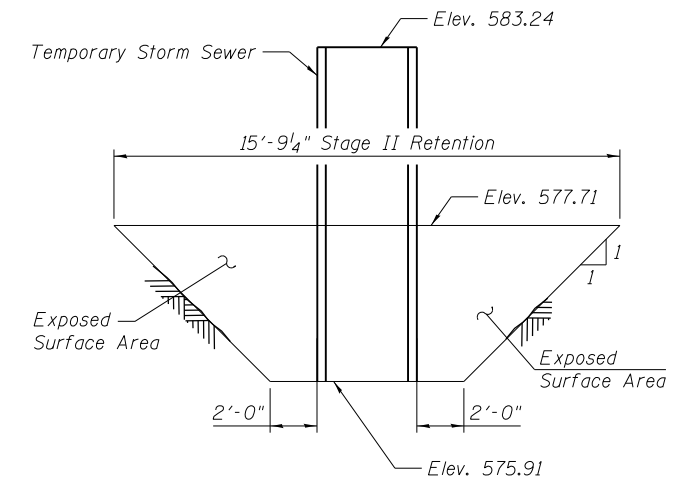
STAGE II CONSTRUCTION



STAGE III REMOVAL



STAGE III CONSTRUCTION

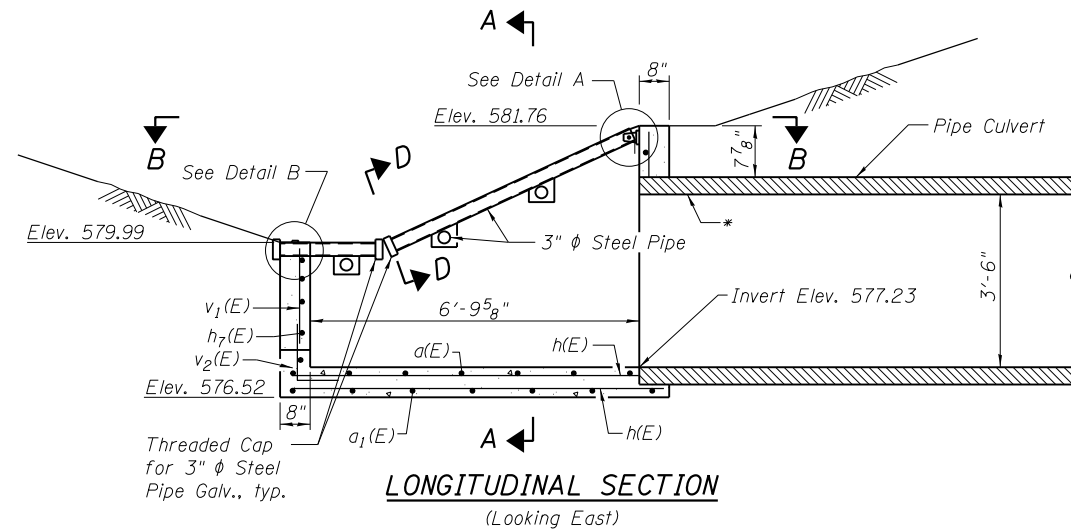


TEMPORARY SOIL RETENTION SYSTEM - FOR STAGE II
(Looking South) (Dimensions along Stage Construction Line)

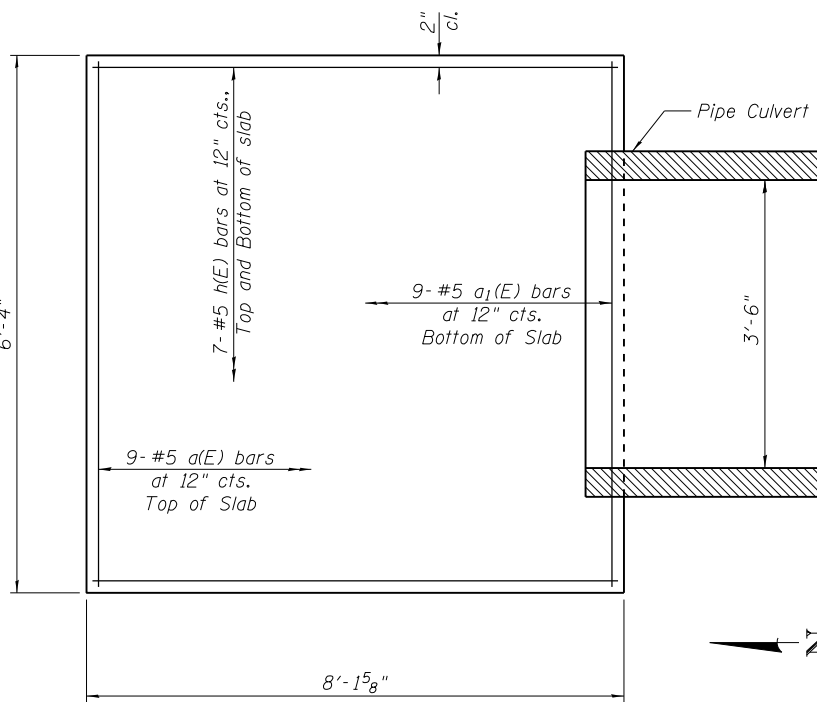
- Notes:
1. Hatched area indicates removal of the existing structure.
 2. See Removal Plan for culvert removal details and quantities.
 3. All staging cross sections are looking east.
 4. All dimensions are perpendicular to CL Roadway unless noted otherwise.
 5. For quantity and details of Temporary Concrete Barrier, see Staging and Traffic Control Plans.
 6. Stage removal line is perpendicular to CL of proposed structure.

USER NAME =	DESIGNED JJA	REVISED
FILE NAME =	CHECKED TBP	REVISED
PLOT SCALE =	DRAWN JJA	REVISED
PLOT DATE =	CHECKED TBP	REVISED

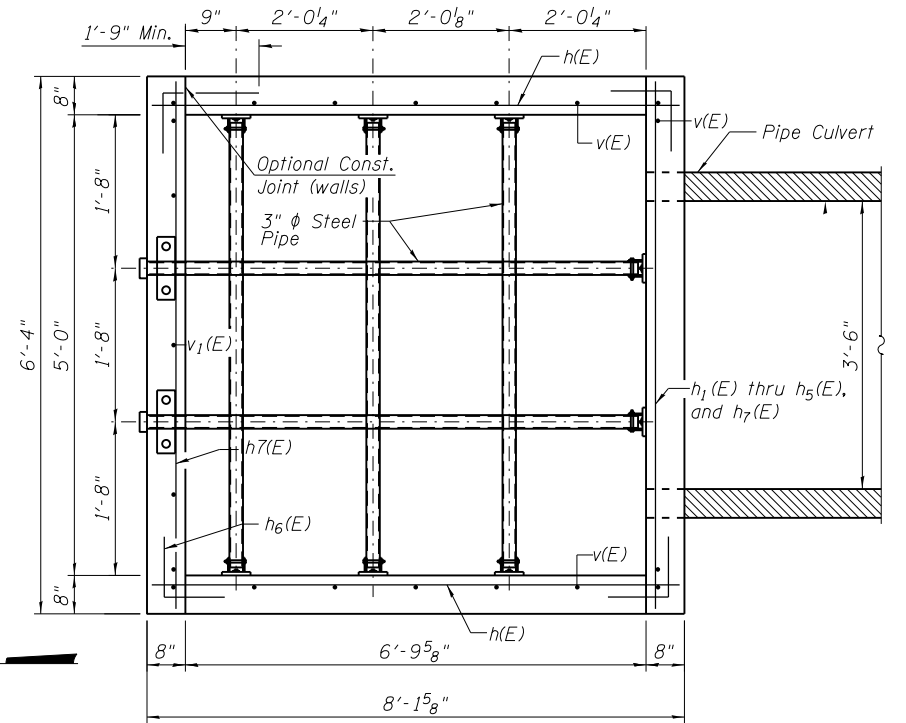
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
595	(142-1, 142)R	ROCK ISLAND	1353	972
CONTRACT NO. 64B83				



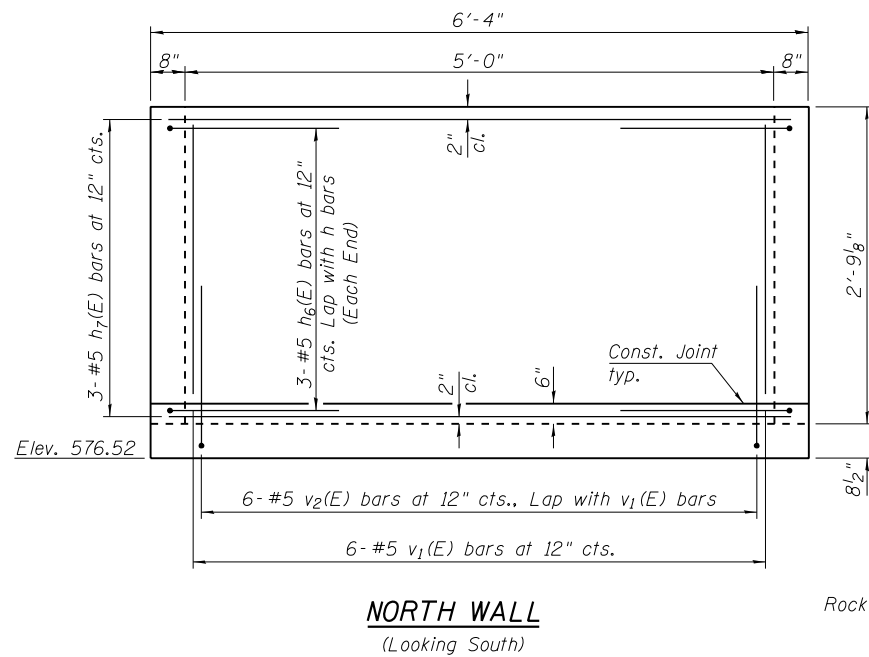
* Provide temporary support at end of pipe to support weight of wet concrete. Temporary support shall not be removed until 72 hours have elapsed after the pour and concrete has attained a minimum flexure of 650 psi or a compressive strength of 350 psi. Cost included with Pipe Culverts, Class A, Type 2 42".



SLAB PLAN

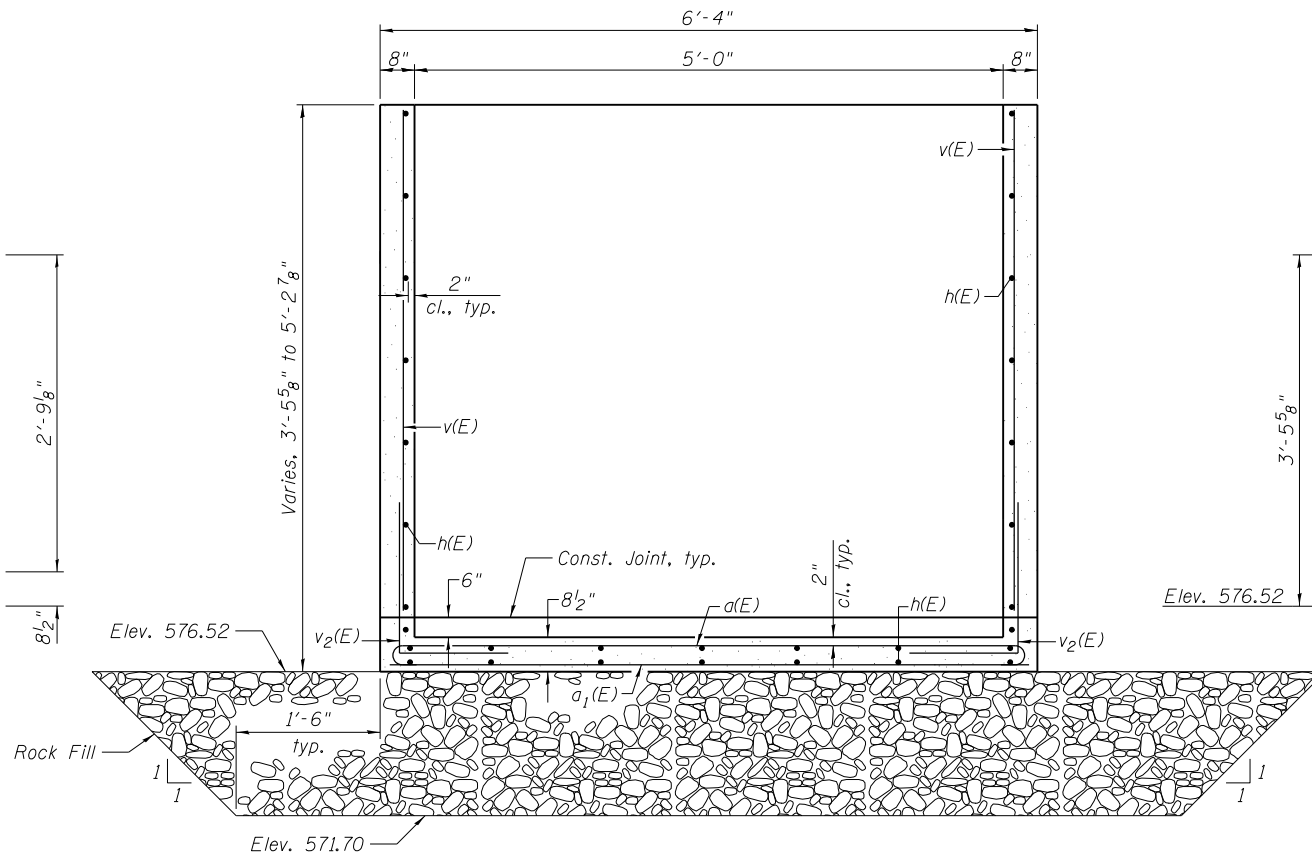


VIEW B-B

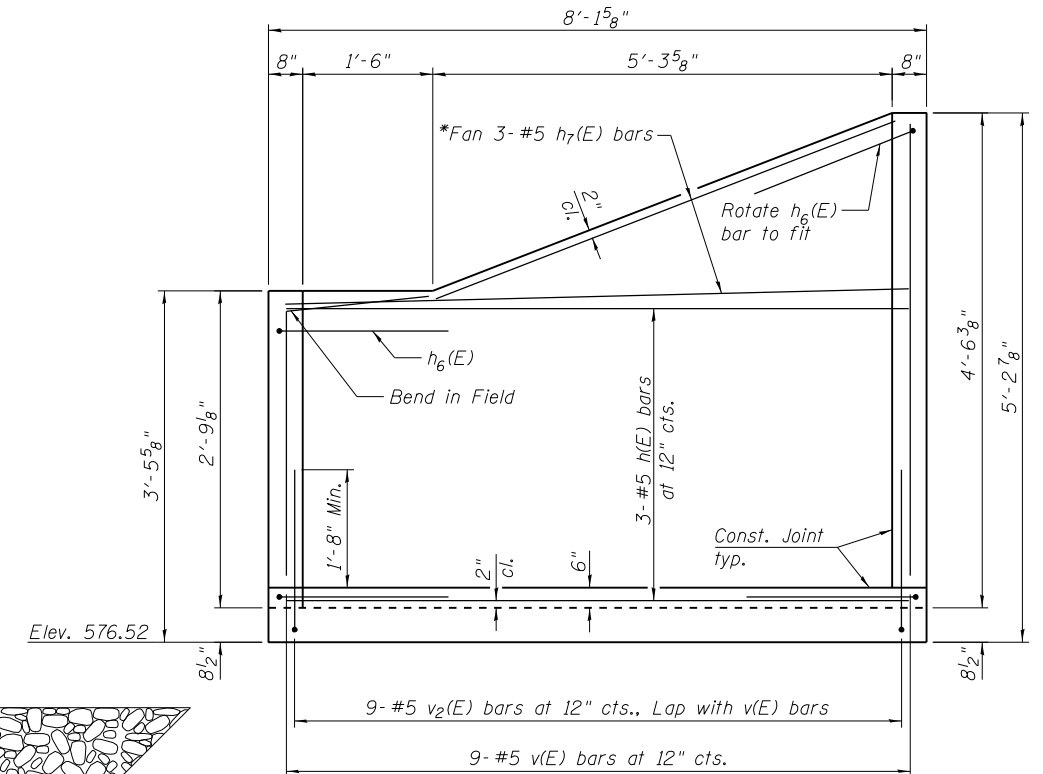


NORTH WALL
(Looking South)

MIN BAR LAP
#5 Bar = 1'-8"



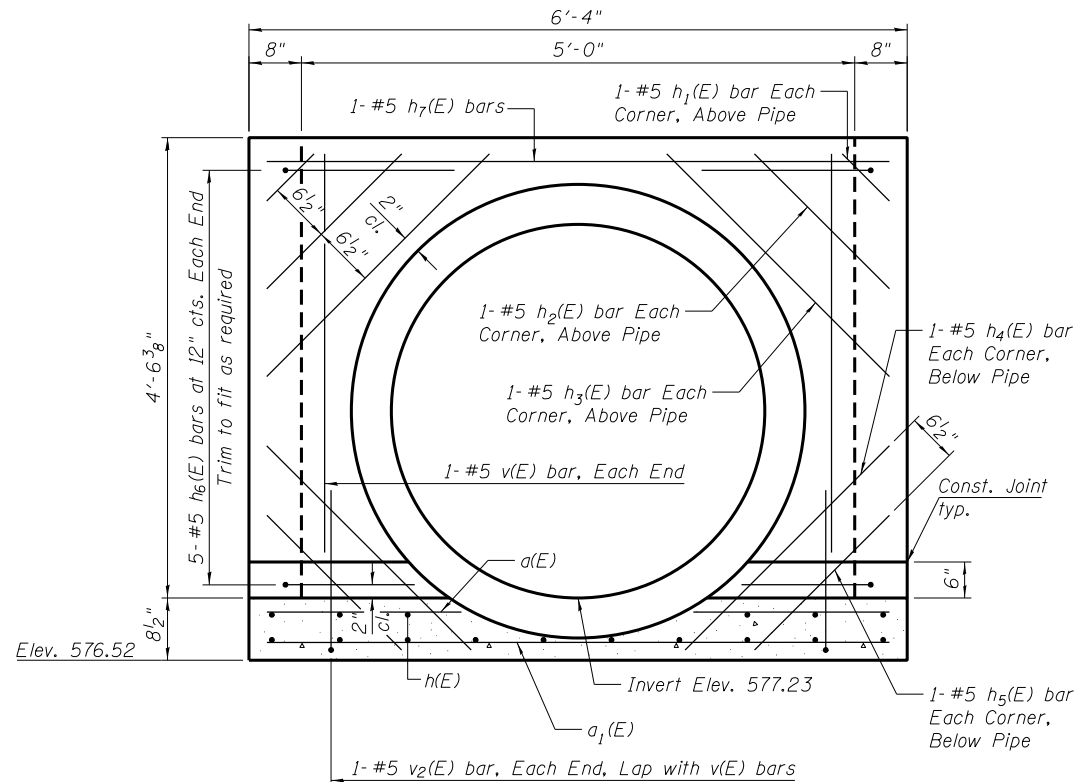
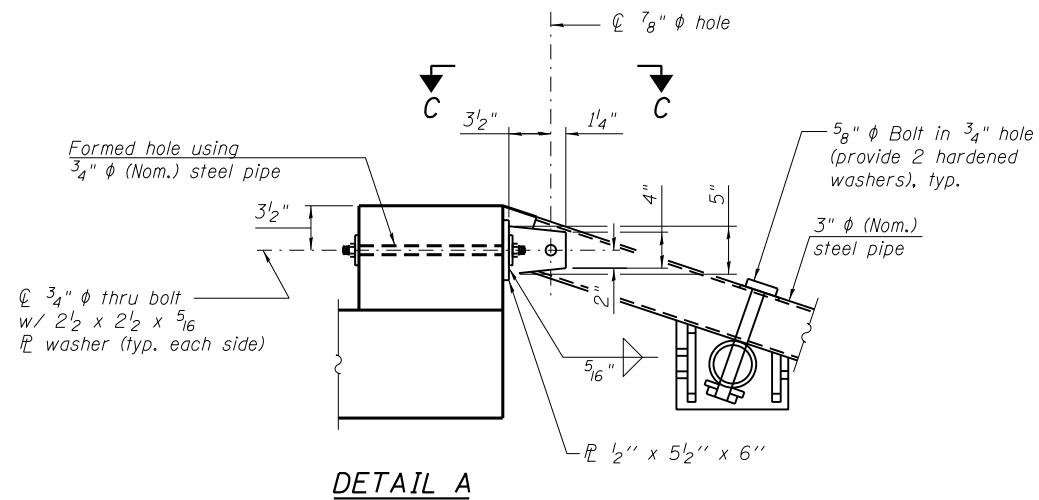
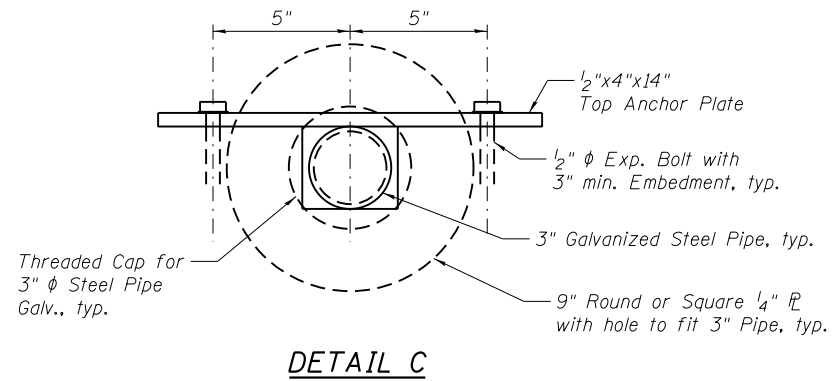
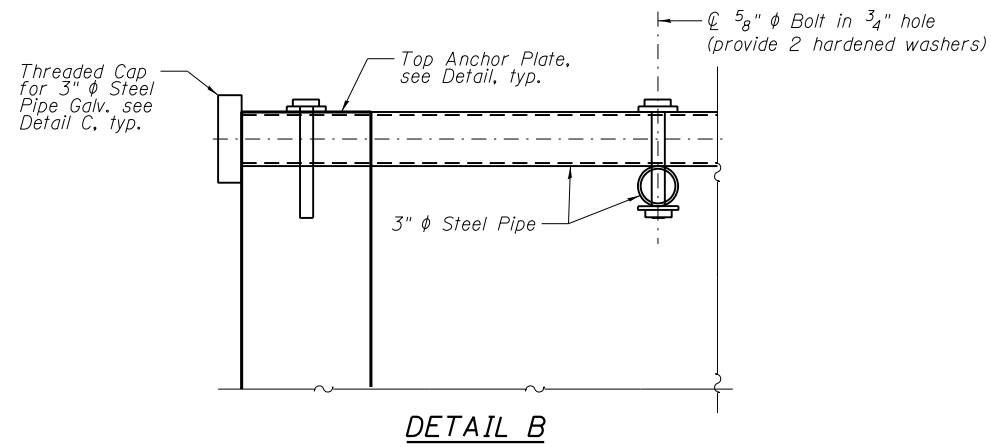
SECTION A-A



EAST AND WEST WALLS
(Looking East)

Note:
See sheet SD-4 of SD-5 for Detail A, Detail B, Section D-D, South Wall, bar details and Bill of Material.

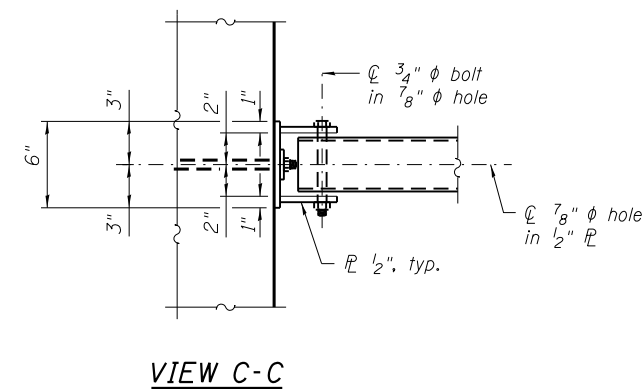
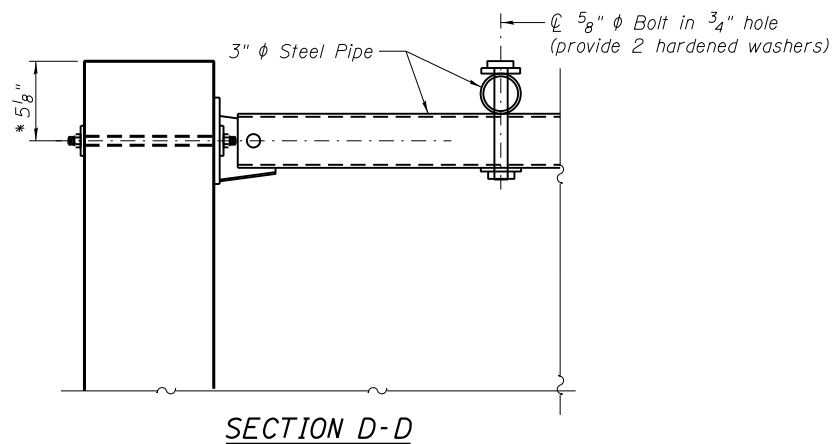
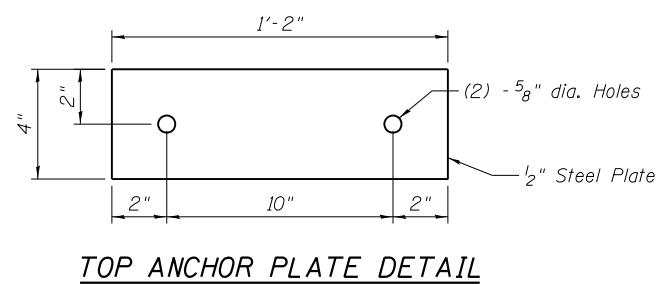
(Sheet 1 of 2)



BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a(E)	9	#5	7'-2"	
a1(E)	9	#5	6'-0"	
h(E)	20	#5	7'-9"	
h1(E)	2	#5	1'-0"	
h2(E)	2	#5	2'-1"	
h3(E)	2	#5	3'-2"	
h4(E)	2	#5	2'-10"	
h5(E)	2	#5	1'-9"	
h6(E)	16	#5	4'-0"	
h7(E)	10	#5	6'-0"	
v(E)	20	#5	4'-10"	
v1(E)	6	#5	2'-5"	
v2(E)	26	#5	4'-6"	
Concrete Structures			Cu. Yd.	3.4
Reinforcement Bars, Epoxy Coated			Pound	680

Notes:
 Cut bars to miss precast pipe opening.
 Cost of Expansion Bolts, Galvanized Pipe, Steel Plates, Bolts, Nuts, and washers shall be included in cost of Concrete Structures.
 Steel P's shall conform to AASHTO M-183 and shall be galvanized conforming to AASHTO M-111.
 Bolts, nuts and washers shall be in accordance with Article 1006.08 of the Standard Specifications and shall be galvanized.
 The minimum distance from the center of a hole to the free edge of a structural shape or plate shall be 1 1/2" unless noted otherwise.

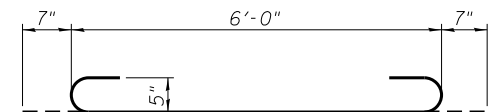


* Measured perpendicular to top of culvert wall. In addition, formed hole shall be located a minimum of 6" measured horizontally from any vertical joints necessary for construction of the culvert end section.

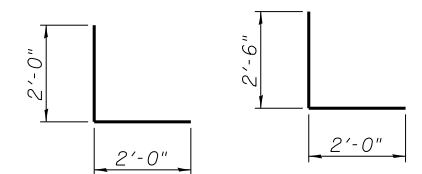
SOUTH WALL
(Looking South)

BILL OF MATERIAL
(For information only)

ITEM	UNIT	TOTAL
3" Galvanized Steel Pipe	Each	5
3" Galvanized Steel Pipe Caps	Each	6
1/4" Galvanized Steel Plate (9" Nominal)	Each	2
1/2"x4"x14" Galvanized Steel Plate	Each	2
5/8"x9" Galvanized Steel Bolts	Each	6
1/2" Galvanized Exp. Bolts	Each	4



BAR a(E)



BAR h6(E)

BAR v2(E)

(Sheet 2 of 2)

Soils Report

IL Rte. 5 (John Deere Road)
S.N. 081-1121



SOIL BORING LOG

Page 1 of 1

ROUTE FAP 595 DESCRIPTION John Deere Road proposed culvert, 42" RCP, .3 miles E. of 41st Street LOGGED BY W. Garza
SECTION 142 R LOCATION S. Moline Twp. - 14NW. SEC., TWP. 17N. RNG. 1W
COUNTY Rock Island DRILLING METHOD Hollow Stem Auger HAMMER TYPE CME-45 Automatic

STRUCT. NO. Station	BORING NO. Station	Ground Surface Elev.	SOIL			D E P T H ft	B L O W S Qu T	U C S Qu T	M O I S T %	Surface Water Elev. ft	Stream Bed Elev. ft	Groundwater Elev. ft	First Encounter Upon Completion After Hrs.
			(ft)	(/6")	(tsf)								
081-1121 316+41	B-1 316+56	579.50										None	
STIFF brown SILTY CLAY LOAM													100/6
			1.1			16.0							
VERY STIFF gray SILTY CLAY													
		577.50	6										
		576.00	8	3.5		17.0							
STIFF tan SILTY LOAM													
		573.50	4	1.3		22.0							
VERY SOFT tan SILTY LOAM													
		571.00	1	0.0		29.0							
MEDIUM redish brown CLAY													
		568.00	1	0.7		47.0							
LOOSE tan moist dirty SAND													
		565.50	2										
MEDIUM gray SHALE													
		563.50	7										
VERY DENSE gray SHALE													
		561.00	20										
			30										
			40										
VERY DENSE gray SHALE													
			31										

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)
BBS, from 137 (Rev. 8-99)

Soils Report

IL Rte. 5 (John Deere Road)
S.N. 081-1121



SOIL BORING LOG

Page 1 of 1

ROUTE FAP 595 DESCRIPTION John Deere Road proposed culvert, 42" RCP, .3 miles E. of 41st Street LOGGED BY W. Garza
SECTION 142 R LOCATION S. Moline Twp. - 14NW. SEC., TWP. 17N. RNG. 1W
COUNTY Rock Island DRILLING METHOD Hollow Stem Auger HAMMER TYPE CME-45 Automatic

STRUCT. NO. Station	BORING NO. Station	Ground Surface Elev.	SOIL			D E P T H ft	B L O W S Qu T	U C S Qu T	M O I S T %	Surface Water Elev. ft	Stream Bed Elev. ft	Groundwater Elev. ft	First Encounter Upon Completion After Hrs.
			(ft)	(/6")	(tsf)								
081-1121 316+41	B-2 316+17	577.80										565.8	
STIFF brown SILTY CLAY LOAM													563.8
			1.5			18.0							
STIFF tan SILTY CLAY													
		575.80	0										
		574.30	2	1.2		22.0							
SOFT tan SILTY LOAM													
		571.80	2	0.3		27.0							
MEDIUM redish brown CLAY with 7% ORGANICS													
		568.80	1	0.5		74.0							
STIFF gray SHALE													
		566.80	2	2.0		20.0							
DENSE gray SHALE with fine SAND lens													
		564.30	11										
VERY DENSE gray SHALE													
		561.80	18										
			29										
			42										

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)
BBS, from 137 (Rev. 8-99)

Soils Report

IL Rte. 5 (John Deere Road)
S.N. 081-1121



SOIL BORING LOG

Page 1 of 1

ROUTE FAP 595 DESCRIPTION John Deere Road proposed culvert, 42" RCP, .3 miles E. of 41st Street LOGGED BY W. Garza
SECTION 142 R LOCATION S. Moline Twp. - 14NW. SEC., TWP. 17N. RNG. 1W
COUNTY Rock Island DRILLING METHOD Hollow Stem Auger HAMMER TYPE CME-45 Automatic

STRUCT. NO. Station	BORING NO. Station	Ground Surface Elev.	SOIL			D E P T H ft	B L O W S Qu T	U C S Qu T	M O I S T %	Surface Water Elev. ft	Stream Bed Elev. ft	Groundwater Elev. ft	First Encounter Upon Completion After Hrs.
			(ft)	(/6")	(tsf)								
081-1121 316+41	B-3 316+22	578.00										566.0	
STIFF brown SILTY CLAY LOAM													566.0
			1.0			29.0							
STIFF tan/brown SILTY CLAY LOAM													
		576.00	1	1.1		24.0							
SOFT tan SILTY LOAM													
		572.00	2	0.3		29.0							
SOFT redish brown CLAY													
		569.50	0	0.5		39.0							
MEDIUM redish brown CLAY with SILT lens													
		566.50	2	0.9		47.0							
VERY DENSE gray fine SAND													
		564.50	4										
End of Boring													
			100/5										

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)
BBS, from 137 (Rev. 8-99)



USER NAME =	DESIGNED JJA	REVISED
FILE NAME =	CHECKED TBP	REVISED
PLOT SCALE =	DRAWN JJA	REVISED
PLOT DATE =	CHECKED TBP	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BORING LOGS
S.N. 081-1121

SHEET NO. SD-5 OF SD-5 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
595	(142-1, 142)R	ROCK ISLAND	1353	975
CONTRACT NO. 64B83				

ILLINOIS FED. AID PROJECT

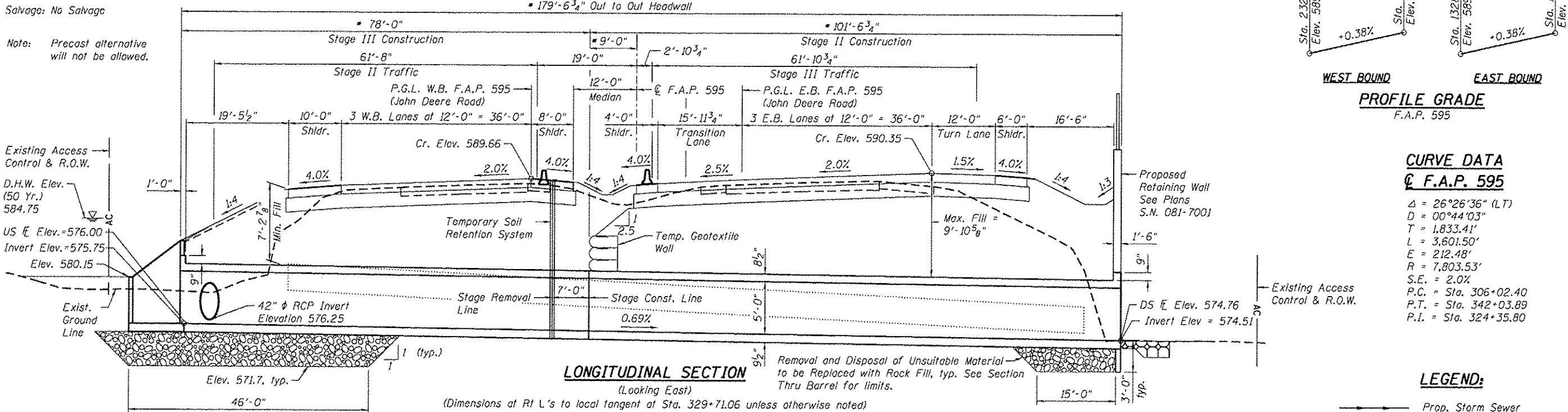
Benchmark: Traffic Signal Foundation, Sta. 334+45.00, 63.99' L.I. Elev. 590.71

Existing Structure: Existing 8'x5' Cast-in-Place Box Culvert with 152' out to out length.
Existing structure to be removed and replaced.
Traffic to be maintained utilizing stage construction.
Temporary pavement and Temporary Culvert Extension will be constructed to accommodate Stage I Traffic.

* Measured along \odot Culvert

Salvage: No Salvage

Note: Precast alternative will not be allowed.



Existing Access Control & R.O.W.
D.H.W. Elev. (50 Yr.) 584.75
US \odot Elev. = 576.00
Invert Elev. = 575.75
Elev. 580.15

Exist. Ground Line
42" ϕ RCP Invert Elevation 576.25

Existing Access Control & ROW
Prop. 42" ϕ RCP Storm Sewer
9'x20' Drop Box
3'-9 1/4" AC
1:2 (V:H)

DESIGN SCOUR ELEVATION TABLE

Design Scour Elevation (ft.)	Upstream	Downstream
	574.96	571.51

DESIGN SPECIFICATIONS

2012 AASHTO LRFD Bridge Design Specifications, 6th Edition with 2013 Interims

DESIGN STRESSES

FIELD UNITS

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

LOADING HL-93

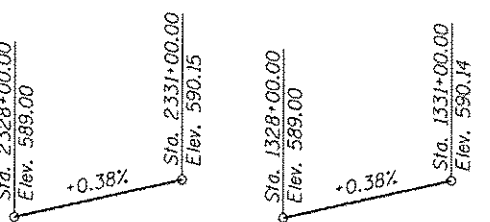
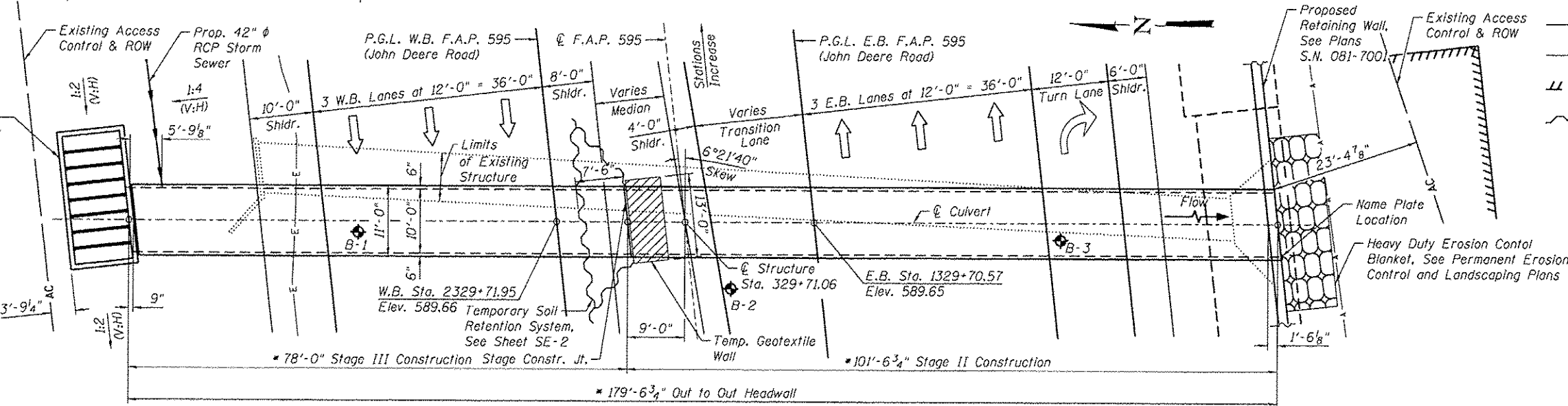
Allow 50# / sq. ft. for future wearing surface.

WATERWAY INFORMATION TABLE

Drainage Area = Existing Low-Grade Elev. 589.00 ft. @ Sta. 329+50
2.25 Acres Proposed Low-Grade Elev. 588.85 ft. @ Sta. 329+50

Flood	Freq. Yr.	Q C.F.S.	Opening Sq. Ft.		Headwater El.	
			Exist.	Prop.	Exist.	Prop.
Design	50	431	30	22	587.55	584.75
Base	100	546	30	26	589.07	586.94
Overtopping (Existing)	82	493	30	--	589.00	--
Overtopping (Proposed)	156	626	--	30	--	588.85

PLAN



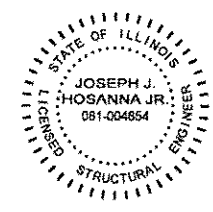
CURVE DATA

\odot F.A.P. 595
 $\Delta = 26^\circ 26' 36''$ (LT)
 $D = 00^\circ 44' 03''$
 $T = 1,833.41'$
 $L = 3,601.50'$
 $E = 212.48'$
 $R = 7,803.53'$
 $S.E. = 2.0\%$
 $P.C. = Sta. 306+02.40$
 $P.T. = Sta. 342+03.89$
 $P.I. = Sta. 324+35.80$

LEGEND:

- Prop. Storm Sewer
- Exist. Aerial Lines
- Exist. Underground Electrical Line
- Prop. Temporary Easement
- Temporary Soil Retention System
- Boring Location

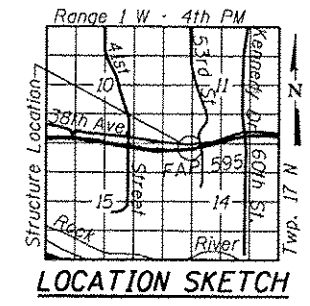
Joseph J. Hosanna Jr.



DATE: 3/17/2015
SEAL EXPIRES: 11/30/2016

STATION 329+71.06
BUILT 20... BY
STATE OF ILLINOIS
F.A.P. RT. 595
SEC. (142-1, 142)R
LOADING HL-93
STRUCTURE NO. 081-1122

NAME PLATE
See Std. 515001



GENERAL PLAN & ELEVATION
JOHN DEERE ROAD (IL 5) OVER
DRAINAGE DITCH
F.A.P. RTE. 595
SECTION (142-1, 142)R
ROCK ISLAND COUNTY
STATION 329+71.06
S.N. 081-1122

N:\PROJECTS\2015\03\CONTRACT_2\Design\Structure\ACAD\Culvert_1\1122-64883-021.dwg



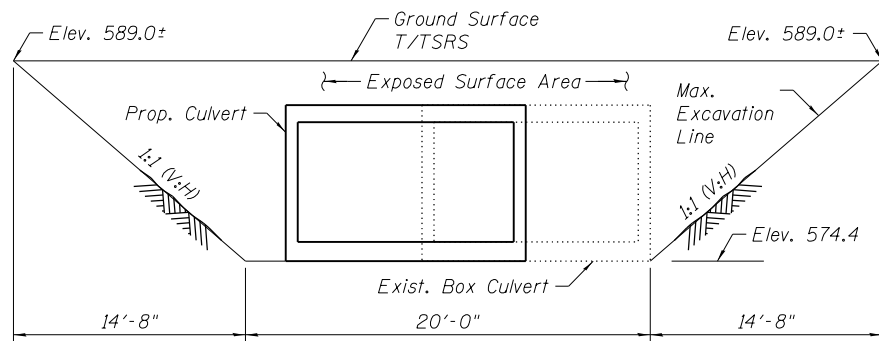
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PLOT DATE: 3/17/2015	DRAWN: SBA	REVISED:
	CHECKED: BWS	REVISED:

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

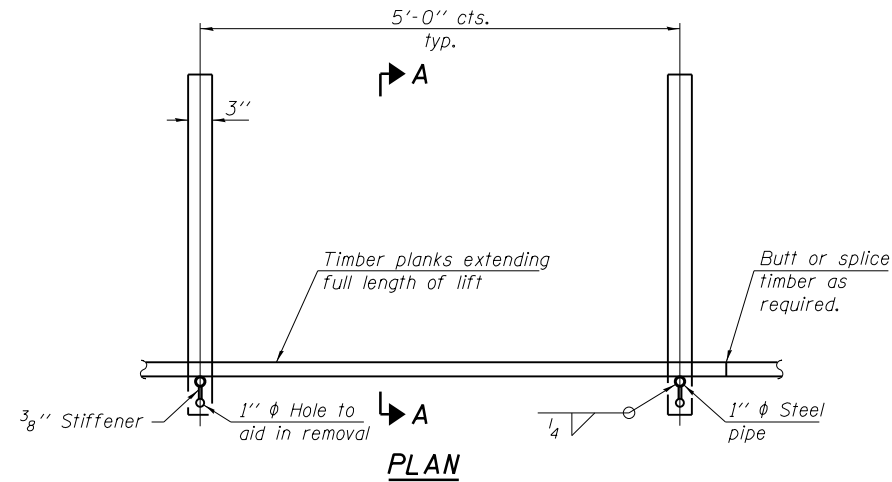
SHEET NO. SE-1 OF SE-7 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
595	(142-1, 142)R	ROCK ISLAND	1353	976

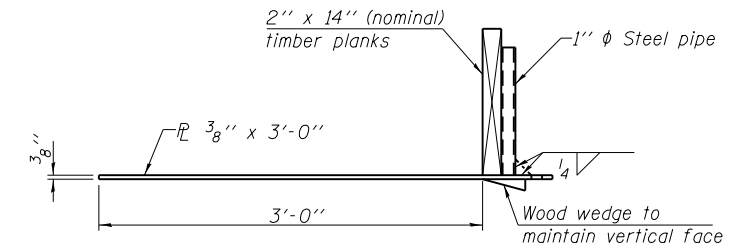
CONTRACT NO. 64883
[ILLINOIS] FED. AID PROJECT



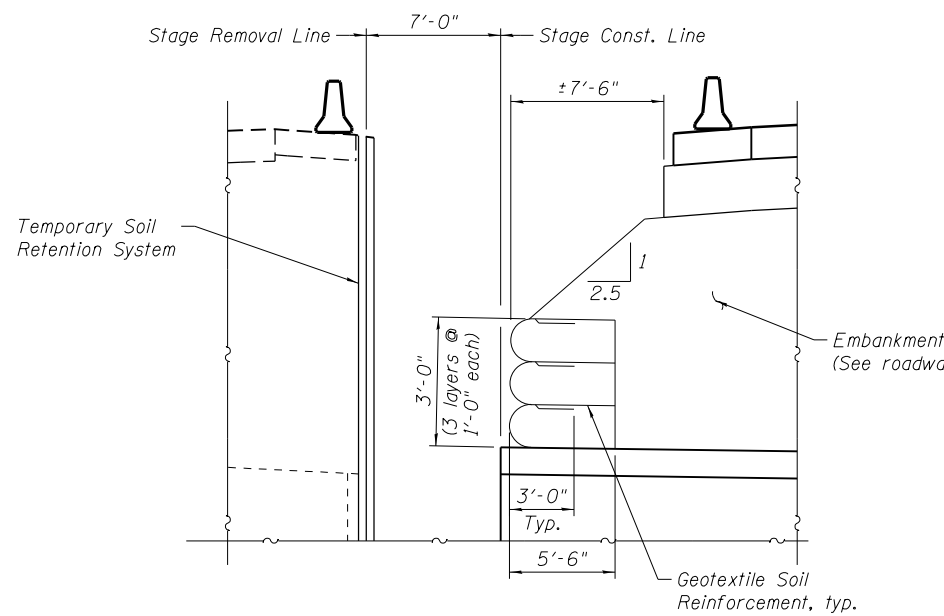
**TEMPORARY SOIL RETENTION SYSTEM
ELEVATION**
(Looking North)



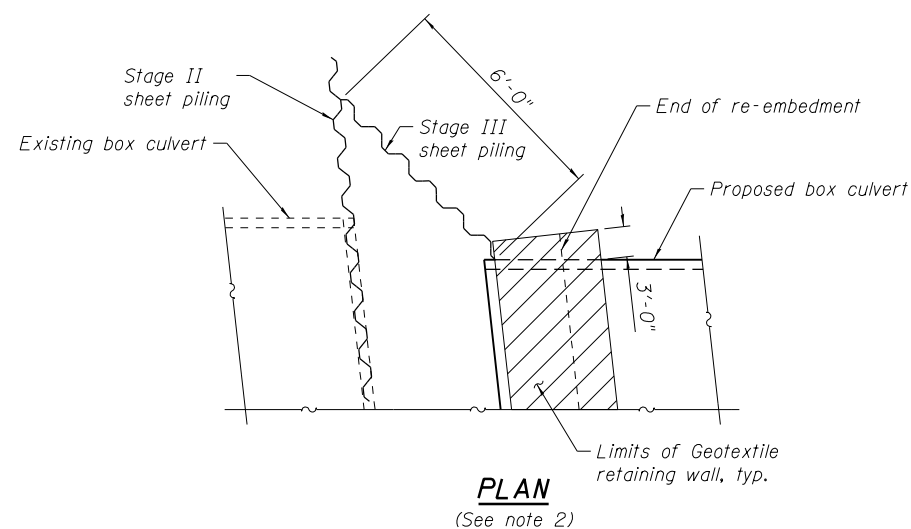
**GEOTEXTILE
FORM BRACE DETAIL**



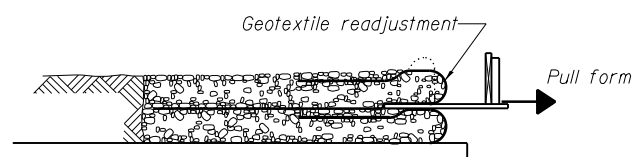
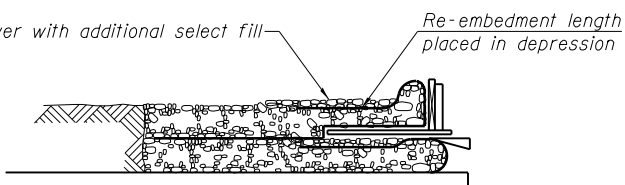
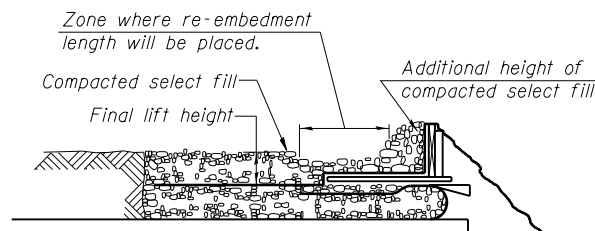
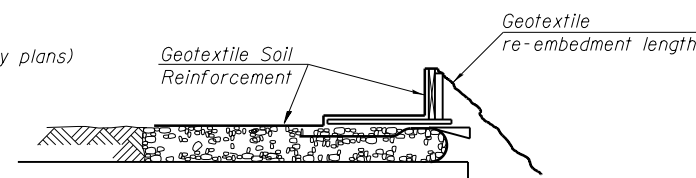
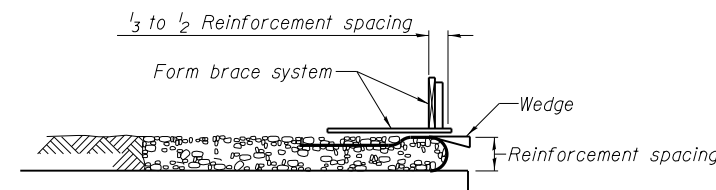
SECTION A-A



TYPICAL SECTION



**TEMPORARY GEOTEXTILE WALL
PLAN**
(See note 2)



**GEOTEXTILE WALL
CONSTRUCTION SEQUENCE**

1. Place form brace system on completed reinforcement level; back from the finished fabric face a distance of 1/3 to 1/2 the geotextile reinforcement spacing.

2. Position fabric so that the required geotextile re-embedment length extends over the top of the form brace and the design reinforcement width is placed with no slack against the previous level.

3. Compact select fill material in lifts to final lift height, create (±3") depression in zone where re-embedment length will be located and place additional height of compacted select fill against form brace.

4. Fold geotextile re-embedment length back over form brace into zone where depression was made in select fill and place additional select fill (±3") to embed geotextile and bring to final lift height.

5. Pull form brace outward allowing geotextile face to slightly readjust to form tight round face level with plan reinforcement spacing.

INDEX OF SHEETS:

- SE-1 General Plan & Elevation
- SE-2 General Notes & Total Bill of Material
- SE-3 Details-1
- SE-4 Details-2
- SE-5 Details-3
- SE-6 Bar Splicer Assembly and Mechanical Splicer Details
- SE-7 Boring Logs

GENERAL NOTES:

1. Reinforcement bars designated (E) shall be epoxy coated.
2. The geotextile soil reinforcement shall have a minimum allowable tensile strength (T min.) of 18.3 lb./in. as determined by the procedure described in the Special Provision. The computations supporting the determination of T min. shall be submitted to the engineer for approval.

TOTAL BILL OF MATERIAL

ITEM	UNIT	TOTAL
Removal And Disposal Of Unsuitable Material For Structures	Cu Yd	134
Reinforcement Bars, Epoxy Coated	Pound	43,830
Bar Splicers	Each	51
Name Plates	Each	1
Concrete Box Culverts	Cu Yd	159.1
Rock Fill	Ton	248
Temporary Soil Retention System	Sq Ft	681
Geotextile Retaining Wall	Sq Ft	51

N:\PROJECTS\033333\CONTRACT_2\Design\Structural\CAD\Culvert_Stage_3\29-71.06 (081-1122)\081-1122-54883-002.Generel.Notes.dgn

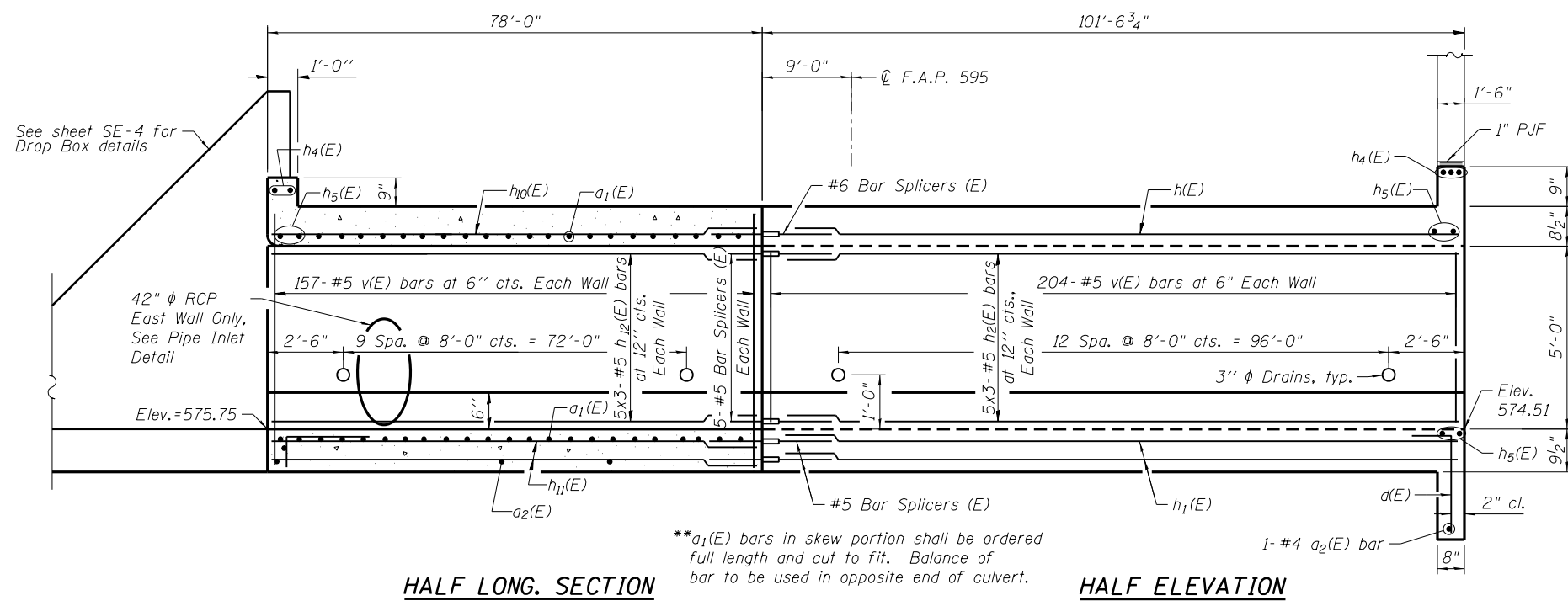


USER NAME = sailgood	DESIGNED - APD	REVISED -
	CHECKED - SMY	REVISED -
PLOT SCALE = 20.000000' / in.	DRAWN - SBA	REVISED -
PLOT DATE = 3/17/2015	CHECKED - BWS	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**GENERAL NOTES & TOTAL BILL OF MATERIAL
S.N. 081-1122**

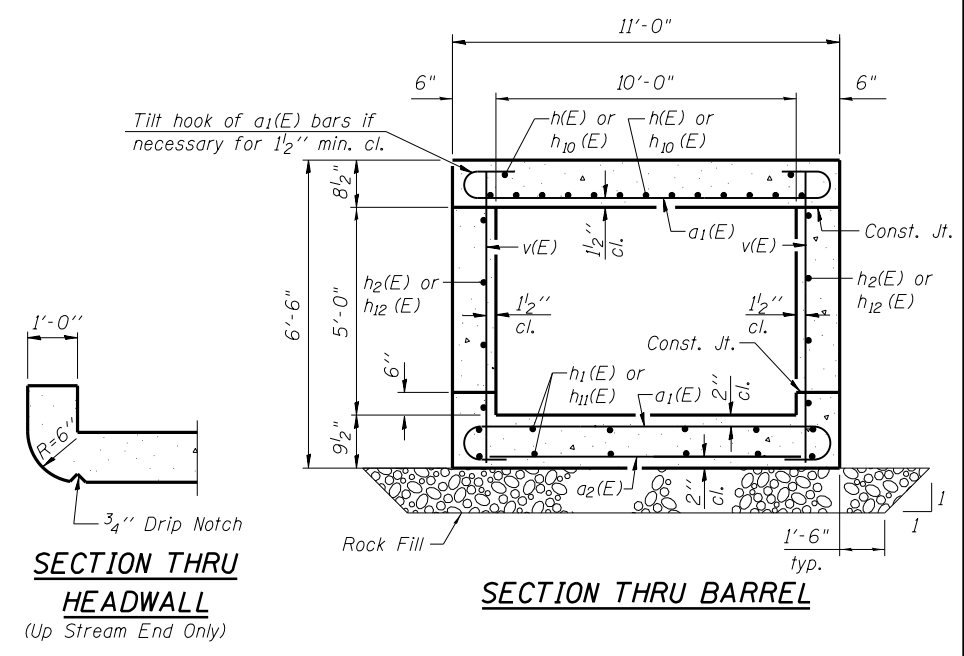
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
595	(142-1, 142)R	ROCK ISLAND	1353	977
CONTRACT NO. 64883				
ILLINOIS FED. AID PROJECT				



HALF LONG. SECTION

HALF ELEVATION

**a₁(E) bars in skew portion shall be ordered full length and cut to fit. Balance of bar to be used in opposite end of culvert.



SECTION THRU HEADWALL
(Up Stream End Only)

SECTION THRU BARREL

NOTES

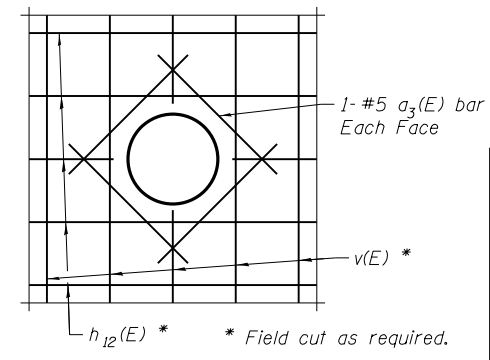
1. A distance of half the length of the wingwall but not less than six feet of the barrel shall be poured monolithically with the wingwalls.
2. Bars indicated thus 12 x 4-#5 etc. indicates 12 lines of bars with 4 lengths per line.
3. For south end elevation see sheet SE-5.

MIN. LAP

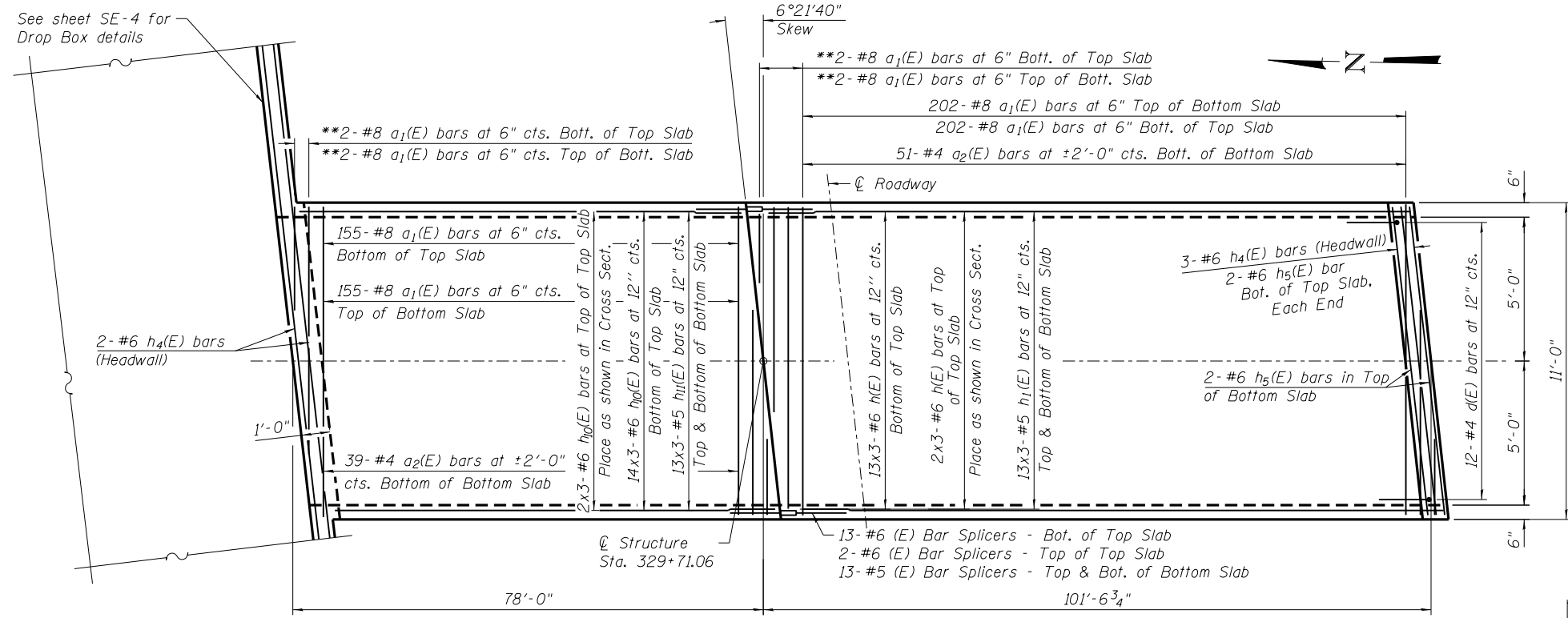
#5 Bar = 2'-11"
#6 Bar = 3'-1"

BILL OF MATERIAL

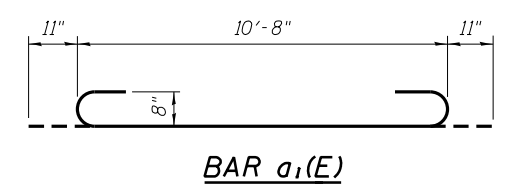
Bar	No.	Size	Length	Shape
a ₁ (E)	722	# 8	12'-6"	
a ₂ (E)	91	# 4	10'-8"	
a ₃ (E)	8	# 5	4'-6"	
d(E)	12	# 4	4'-6"	
h(E)	45	# 6	35'-10"	
h ₁ (E)	78	# 5	35'-9"	
h ₂ (E)	30	# 5	35'-9"	
h ₄ (E)	5	# 6	10'-8"	
h ₅ (E)	6	# 6	10'-9"	
h ₁₀ (E)	48	# 6	28'-0"	
h ₁₁ (E)	78	# 5	28'-10"	
h ₁₂ (E)	30	# 5	27'-10"	
v(E)	722	# 5	6'-2"	
Concrete Box Culverts			Cu. Yd.	144.3
Reinforcement Bars, Epoxy Coated			Pound	41,330



PIPE INLET DETAIL



PLAN SHOWING REINFORCEMENT



BAR a₁(E)

BAR d(E)

N:\PROJ\00033333\CONTRACT_2\Design\Structural\CAD\Culvert_Sets\329+71.06 (081-1122)\081-1122-54883-003_Details.dgn



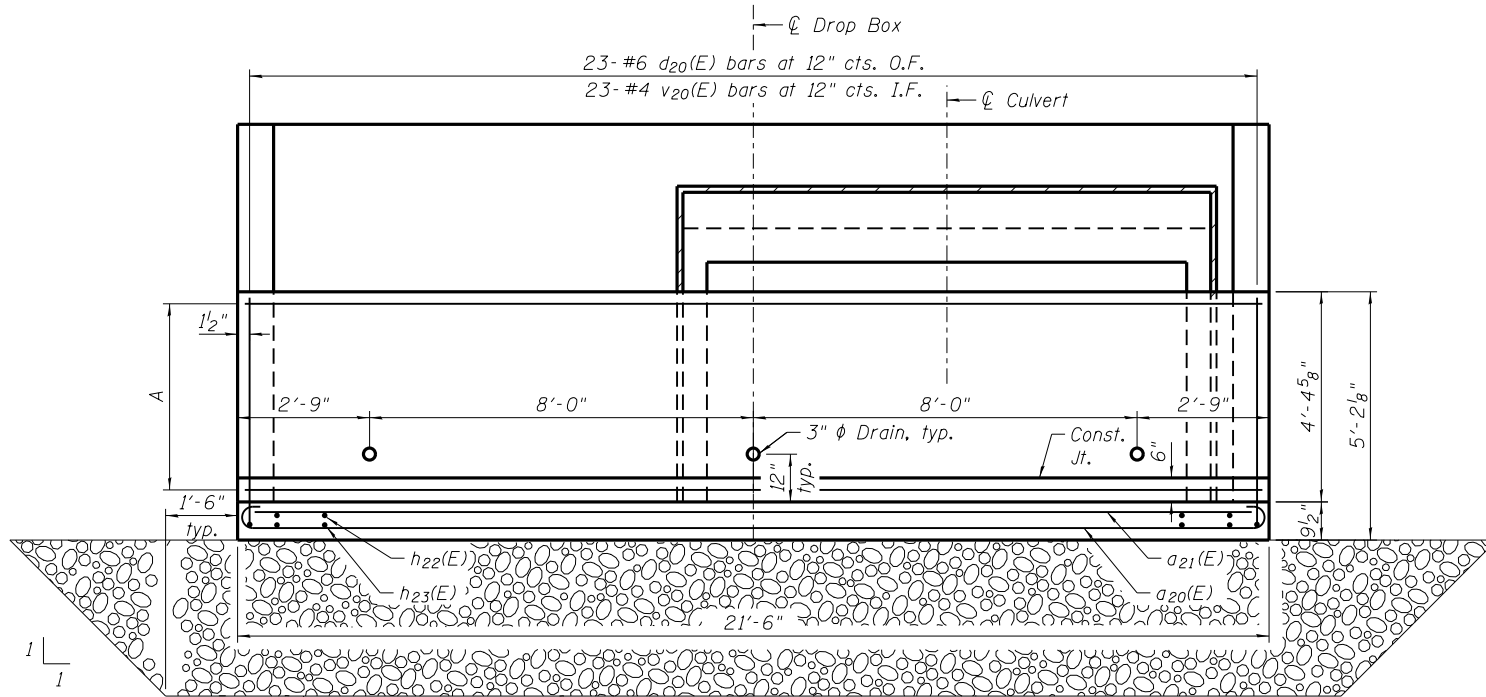
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	CHECKED - BWS	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

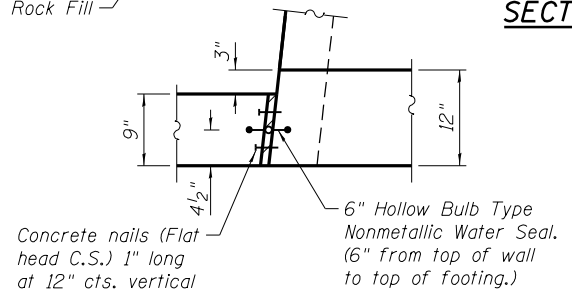
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S.N. 081-1122**

SHEET NO. SE-3 OF SE-7 SHEETS

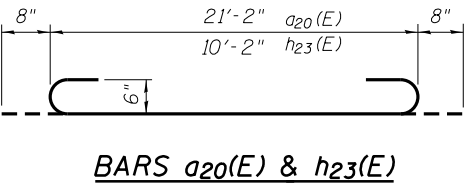
F.A.P. RTE. 595	SECTION (142-1, 142)R	COUNTY ROCK ISLAND	TOTAL SHEETS 1353	SHEET NO. 978
CONTRACT NO. 64883			ILLINOIS FED. AID PROJECT	



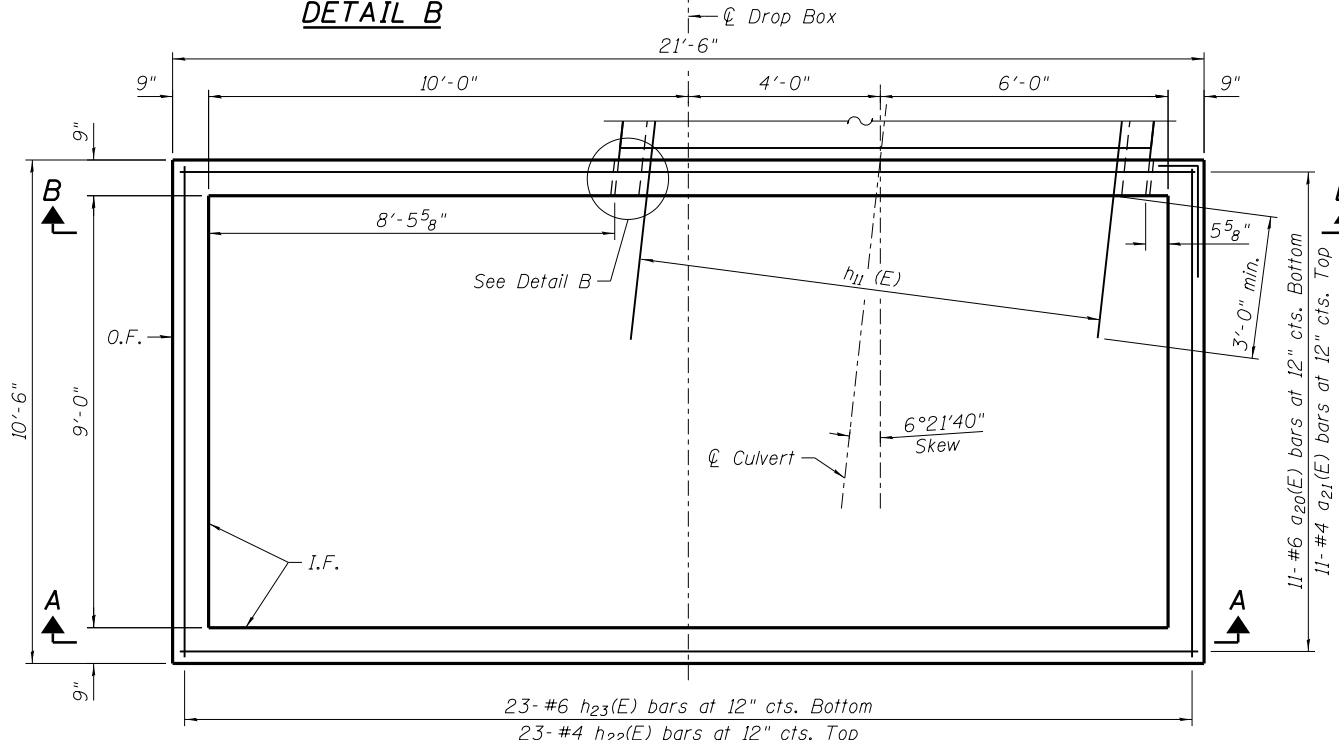
SECTION A-A



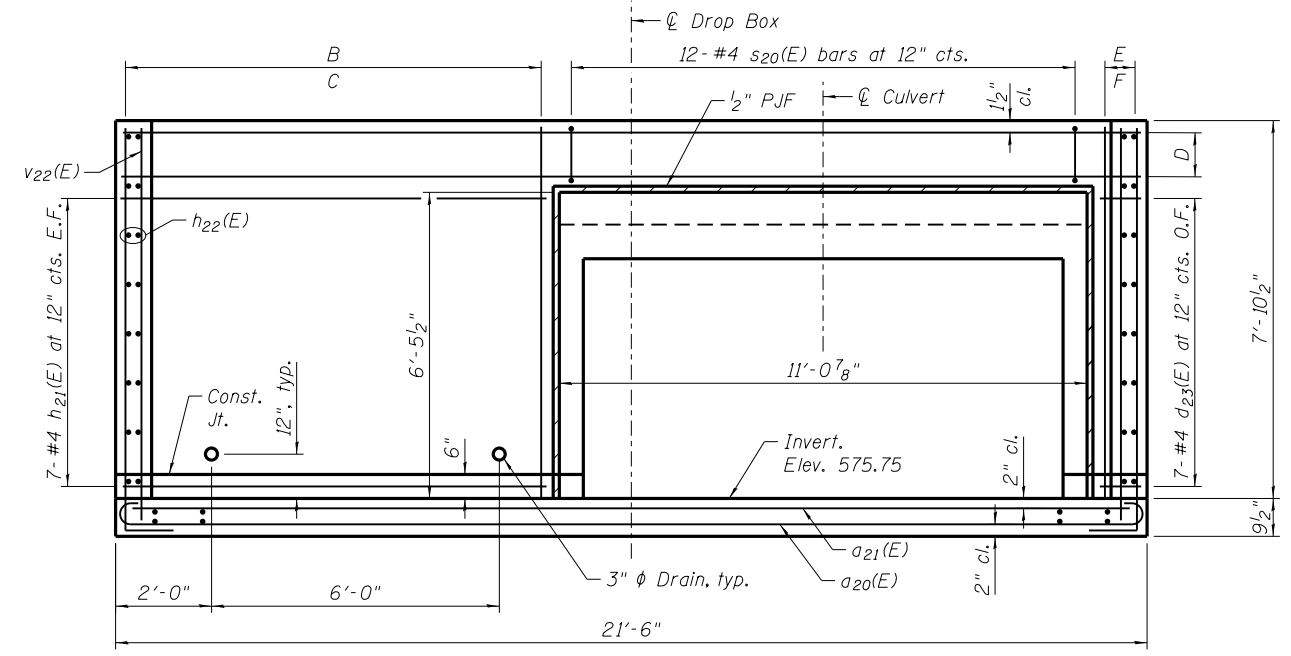
DETAIL B



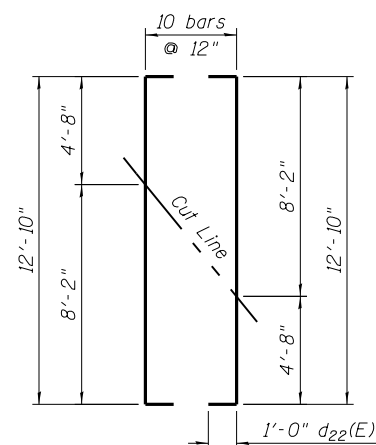
BARS a20(E) & h23(E)



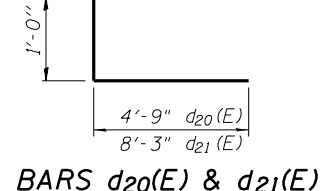
DROP BOX PLAN



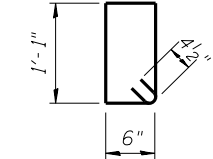
SECTION B-B



**FIELD CUTTING DIAGRAM
BARS v22(E) & d22(E)**

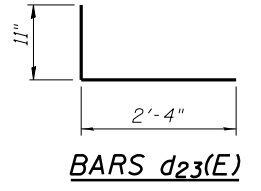


BARS d20(E) & d21(E)

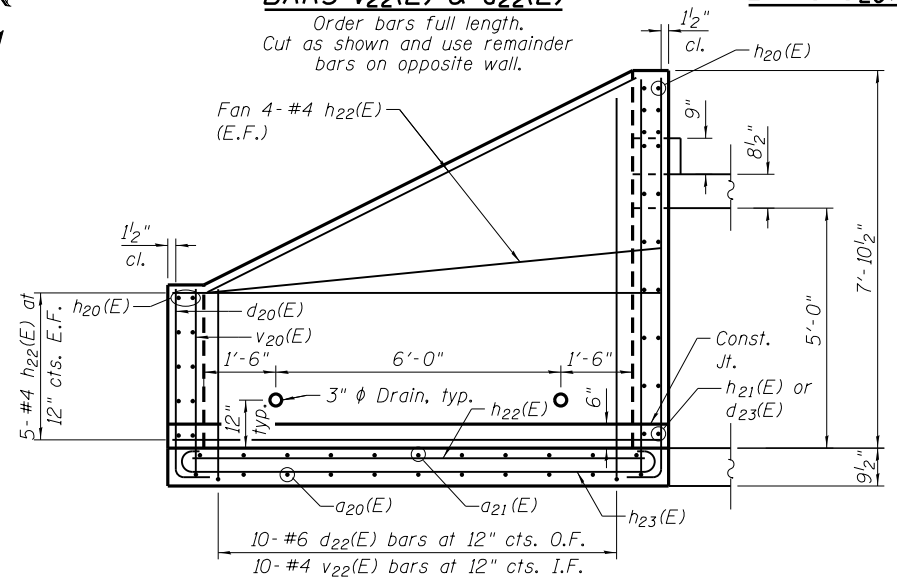


BARS s20(E)

NOTES
O.F. - Outside Face
I.F. - Inside Face
F.F. - Each Face



BARS d23(E)



**WEST WALL ELEVATION
(Looking East, East Wall similar)**

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a20(E)	11	# 6	22'-6"	C
a21(E)	11	# 4	21'-2"	C
d20(E)	23	# 6	5'-9"	L
d21(E)	12	# 6	9'-3"	L
d22(E)	10	# 6	14'-10"	L
d23(E)	7	# 4	3'-3"	L
h20(E)	16	# 4	21'-2"	L
h21(E)	14	# 4	8'-11"	L
h22(E)	59	# 4	10'-2"	L
h23(E)	23	# 6	11'-6"	C
s20(E)	12	# 4	3'-11"	L
v20(E)	23	# 4	4'-8"	L
v21(E)	12	# 4	8'-4"	L
v22(E)	10	# 4	12'-10"	L
Concrete Box Culverts			Cu. Yd.	14.8
Reinforcement Bars, Epoxy Coated			Pound	2,500

N:\PROJECTS\0003393300\CONTRACT_2\Design\Structural\CAD\Culvert_Sht_329-71.06 (081-1122)\081-1122-64883-004_Detail_2.dgn
 CLORBA CONSULTING ENGINEERS
 5071 North Cicero Avenue
 Suite 202, Chicago, Illinois 60656
 Tel: 773-774-0000
 Fax: 773-774-0014
 Email: clorba@clorba.com



USER NAME = sailgood	DESIGNED - BWS	REVISED -
	CHECKED - APD	REVISED -
PLOT SCALE = 4x10 1/4" = 1"	DRAWN - SBA	REVISED -
PLOT DATE = 3/17/2015	CHECKED - BWS	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

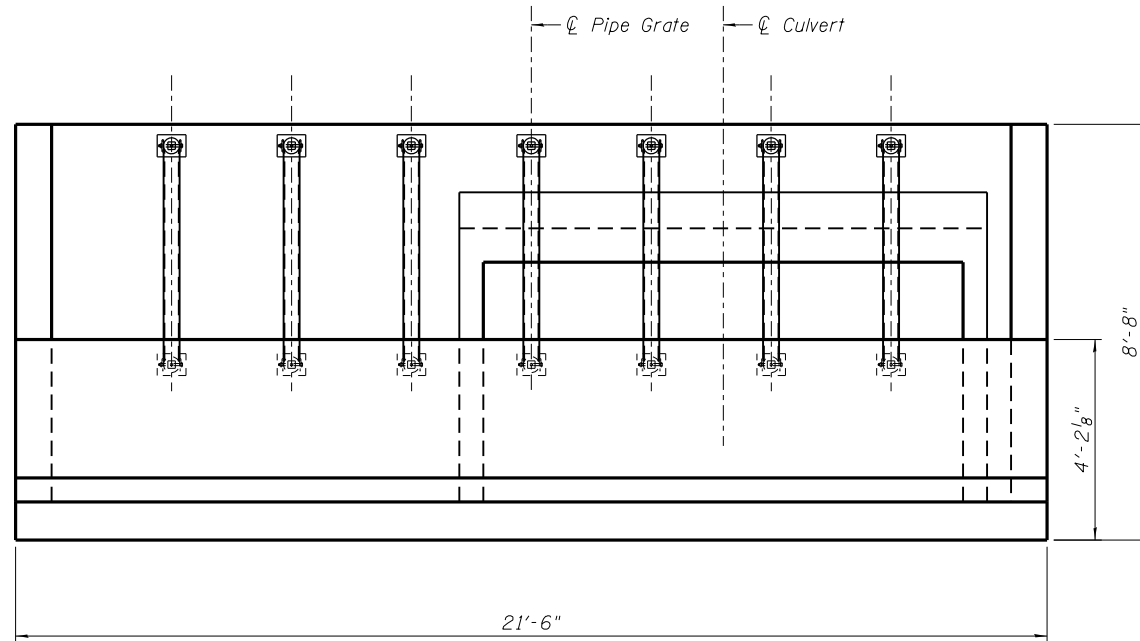
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S.N. 081-1122**

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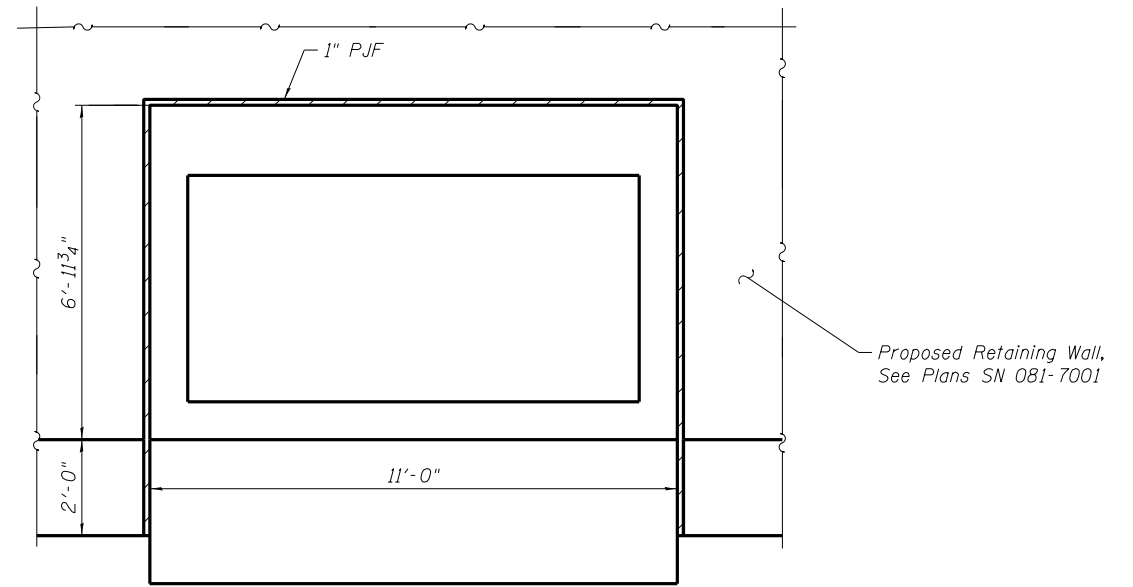
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595	(142-1, 142)R	ROCK ISLAND	1353	979

CONTRACT NO. 64883

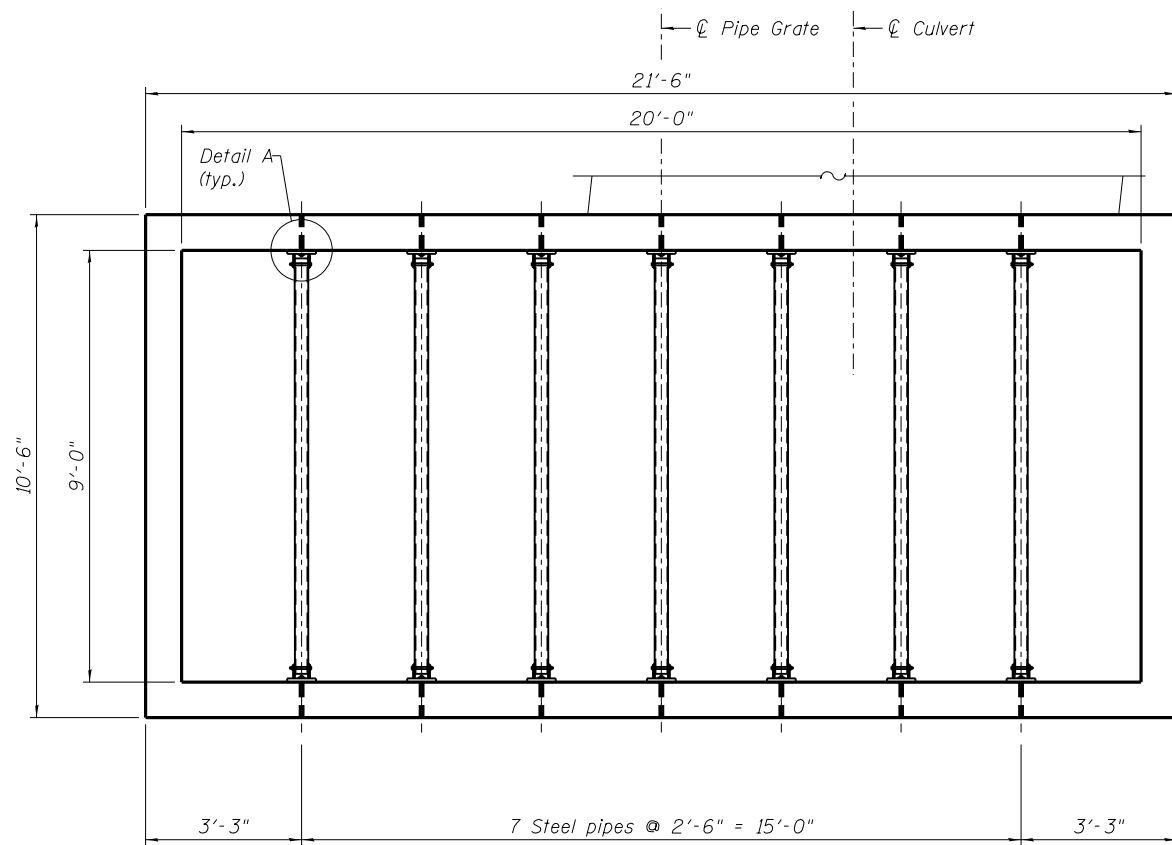
ILLINOIS FED. AID PROJECT



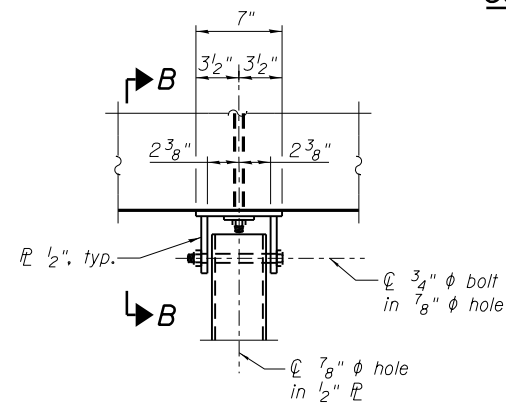
TRAVERSABLE PIPE GRATE ELEVATION
(Looking South)



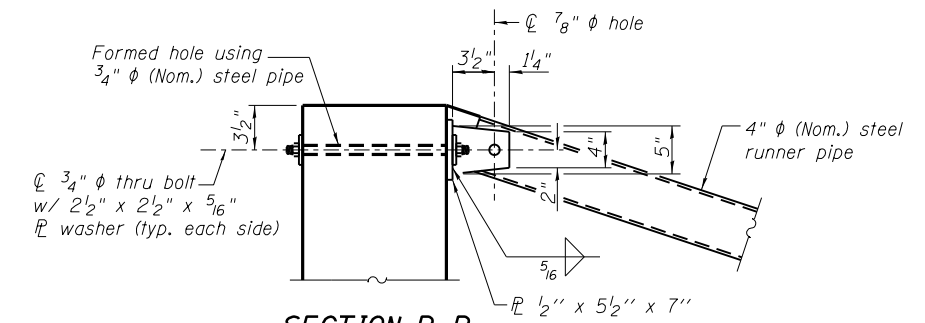
SOUTH END ELEVATION



TRAVERSABLE PIPE GRATE PLAN



DETAIL A



SECTION B-B

PIPE GRATE BRACKET DETAILS

NOTES

- Cost of Galvanized Pipe, Steel Plates, Pipe Grate Brackets, Bolts, Nuts, and Washers shall be included in the cost of Concrete Box Culverts.
- Length of steel pipes shall be determined by the Contractor.
- All components of the Pipe Grate shall be galvanized according to the requirements of AASHTO M 111 or M 232, as applicable.
- Fabrication of the Pipe Grate shall conform to the requirements of section 505 of the Standard Specifications.
- Structural steel shapes and plates shall conform to the requirements of Article 1006.04 of the Standard Specifications. Steel pipes shall conform to the requirements of ASTM A53 (Type E or S), Grade B, Standard Weight (Sch.40).
- Bolts and thru bolts shall conform to the requirements of Article 1006.08 of the Standard Specifications. Threaded rods conforming to the requirements of ASTM F1554, Grade 105 may be used for thru bolts.
- The minimum distance from the center of a hole to the free edge of a structural shape or plate shall be 1 1/2", unless noted otherwise. Bolts shall be snug tightened by a few impacts of an impact wrench or the full force of a worker using an ordinary spud wrench.

BILL OF MATERIAL - PIPE GRATE

(For information only)

ITEM	UNIT	TOTAL
4" Galvanized Steel Pipe	Each	7
Pipe Grate Bracket	Each	14

N:\PROJECTS\0003393\003\CONTRACT_2\Design\Structural\Culvert.Sta. 329+71.06 (081-1122)\081-1122-54883-005_Details-3.dgn

Clorba Group, Inc.
CONSULTING ENGINEERS
1501 North Cumberland Avenue
Suite 202 Chicago, Illinois 60656
Tel: 773-774-4000
Fax: 773-774-4014
Email: clorba@clorba.com

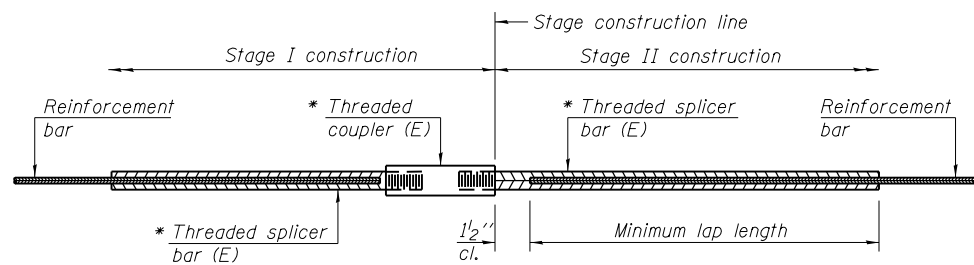
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PLOT DATE = 3/17/2015	CHECKED - BWS	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**DETAILS - 3
S.N. 081-1122**

SHEET NO. SE-5 OF SE-7 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
595	(142-1, 142)R	ROCK ISLAND	1353	980
CONTRACT NO. 64883			ILLINOIS FED. AID PROJECT	



STANDARD BAR SPLICER ASSEMBLY

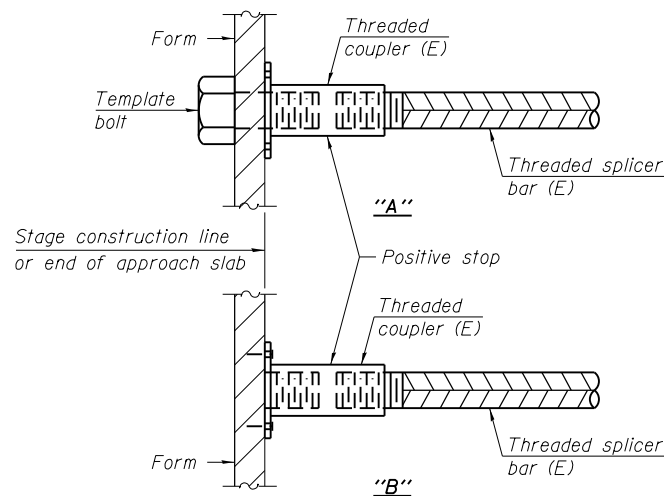
Minimum Lap Lengths						
Bar size to be spliced	Table 1	Table 2	Table 3	Table 4	Table 5	Table 6
3, 4	1'-5"	1'-11"	2'-1"	2'-4"	2'-7"	2'-11"
5	1'-9"	2'-5"	2'-7"	2'-11"	3'-3"	3'-8"
6	2'-1"	2'-11"	3'-1"	3'-6"	3'-10"	4'-5"
7	2'-9"	3'-10"	4'-2"	4'-8"	5'-2"	5'-10"
8	3'-8"	5'-1"	5'-5"	6'-2"	6'-9"	7'-8"
9	4'-7"	6'-5"	6'-10"	7'-9"	8'-7"	9'-8"

- Table 1: Black bar, 0.8 Class C
- Table 2: Black bar, Top bar lap, 0.8 Class C
- Table 3: Epoxy bar, 0.8 Class C
- Table 4: Epoxy bar, Top bar lap, 0.8 Class C
- Table 5: Epoxy bar, Class C
- Table 6: Epoxy bar, Top bar top, Class C

Threaded splicer bar length = min. lap length + 1 1/2" + thread length

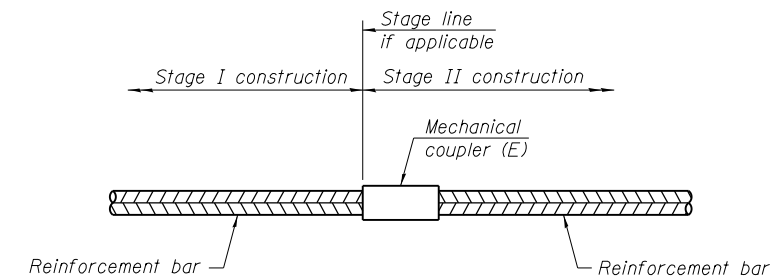
* Epoxy not required on Bar Splicer Assembly components used in conjunction with black bars.

Location	Bar size	No. assemblies required	Table for minimum lap length
Top Slab	#6	15	5
Sidewalls	#5	10	6
Bottom Slab	#5	26	5



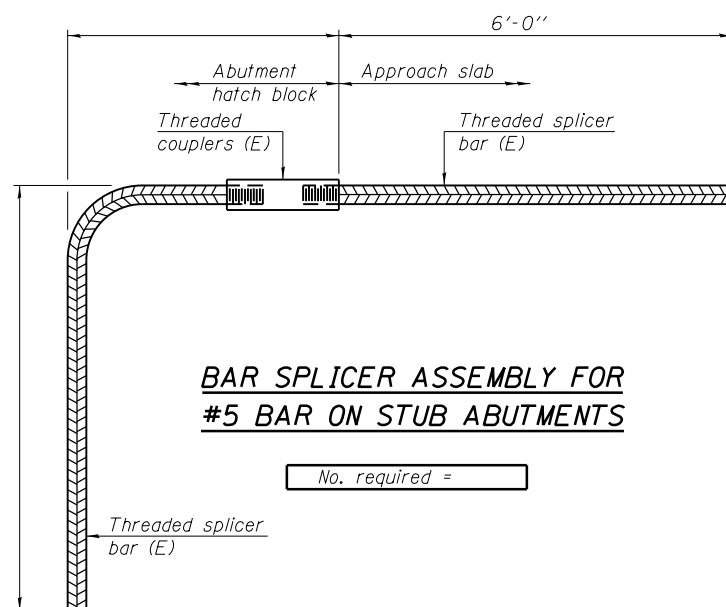
INSTALLATION AND SETTING METHODS

"A" : Set bar splicer assembly by means of a template bolt.
 "B" : Set bar splicer assembly by nailing to wood forms or cementing to steel forms.
 (E) : Indicates epoxy coating.



STANDARD MECHANICAL SPLICER

Location	Bar size	No. assemblies required



BAR SPLICER ASSEMBLY FOR #5 BAR ON STUB ABUTMENTS

No. required =

NOTES

Splicer bars shall be deformed with threaded ends and have a minimum 60 ksi yield strength.
 All reinforcement shall be lapped and tied to the splicer bars.
 Bar splicer assemblies shall be epoxy coated according to the requirements for reinforcement bars. See Section 508 of the Standard Specifications.
 See approved list of bar splicer assemblies and mechanical splicers for alternatives.

BSD-1

8-31-12

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PLOT DATE = 3/17/2015	CHECKED - BWS	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**BAR SPLICER ASSEMBLY AND MECHANICAL SPLICER DETAILS
S.N. 081-1122**

SHEET NO. SE-6 OF SE-7 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
595	(142-1, 142)R	ROCK ISLAND	1353	981

CONTRACT NO. 64B83

ILLINOIS FED. AID PROJECT

Soils Report

IL Rte. 5 (John Deere Road)
S.N. 081-1122



Illinois Department of Transportation
Division of Highways
Illinois Department of Transportation/D-2

SOIL BORING LOG

Page 1 of 1

081-1122 D92-004-06 proposed John Deere Road culvert, 10' x 5' box, .1 mile west of 53rd Street Date 6/24/11

ROUTE FAP 595 DESCRIPTION ROAD Culvert, 10' x 5' box, .1 mile west of 53rd Street LOGGED BY W. Garza

SECTION (142-1, 142) R LOCATION S. Moline Twp. - 14NW, SEC. TWP. 17N, RNG. 1W

COUNTY Rock Island DRILLING METHOD Hollow Stem Auger HAMMER TYPE CME-45 Automatic

STRUCT. NO. 081-1122	D	B	U	M	Surface Water Elev. _____ ft	D	B	U	M
Station 329+70	E	L	C	O	Stream Bed Elev. _____ ft	E	L	C	O
BORING NO. B-1	P	O	S	I	Groundwater Elev.: _____	P	O	S	I
Station 329+75	T	W	Q	T	First Encounter _____ ft	T	W	Q	T
Offset 51.00ft Lt CL	H	S	Qu	T	Upon Completion _____ ft	H	S	Qu	T
Ground Surface Elev. 588.60 ft	(ft)	(/6")	(tsf)	(%)	After _____ Hrs.	(ft)	(/6")	(tsf)	(%)

Asphalt Shoulder					VERY DENSE gray SHALE (continued)	100/12			
					567.60				
STIFF gray SILTY LOAM	586.80	8							
		8	1.4	19.0					
	585.10	7							
MEDIUM gray SILT		2							
		3	0.8	22.0					
	582.80	5							
MEDIUM gray SANDY LOAM		3							
		2	0.9	18.0					
	580.10	2							
MEDIUM gray LOAM		2							
		3	0.8	24.0					
	577.60	3							
SOFT gray SILT		1							
		2	0.4	29.0					
	575.10	3							
MEDIUM gray SILTY LOAM		0							
		2	0.8	33.0					
	572.60	3							
VERY DENSE gray SHALE		14							
		22							
	570.10	30							
VERY DENSE gray SHALE		29							
		20							

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)
BBS, from 137 (Rev. 8-99)

Lin Engineering, Ltd.

Page 3 of 5

Soils Report

IL Rte. 5 (John Deere Road)
S.N. 081-1122



Illinois Department of Transportation
Division of Highways
Illinois Department of Transportation/D-2

SOIL BORING LOG

Page 1 of 1

081-1122 D92-004-06 proposed John Deere Road culvert, 10' x 5' box, .1 mile west of 53rd Street Date 6/28/11

ROUTE FAP 595 DESCRIPTION ROAD Culvert, 10' x 5' box, .1 mile west of 53rd Street LOGGED BY W. Garza

SECTION (142-1, 142) R LOCATION S. Moline Twp. - 14NW, SEC. TWP. 17N, RNG. 1W

COUNTY Rock Island DRILLING METHOD Hollow Stem Auger HAMMER TYPE CME-45 Automatic

STRUCT. NO. 081-1122	D	B	U	M	Surface Water Elev. _____ ft	D	B	U	M
Station 329+70	E	L	C	O	Stream Bed Elev. _____ ft	E	L	C	O
BORING NO. B-2	P	O	S	I	Groundwater Elev.: _____	P	O	S	I
Station 329+80	T	W	Q	T	First Encounter _____ ft	T	W	Q	T
Offset 6.00ft Rt Med CL	H	S	Qu	T	Upon Completion _____ ft	H	S	Qu	T
Ground Surface Elev. 588.50 ft	(ft)	(/6")	(tsf)	(%)	After _____ Hrs.	(ft)	(/6")	(tsf)	(%)

SOFT brown SILTY CLAY LOAM					VERY DENSE gray SHALE (continued)	100/2			
					567.50				
STIFF tan SILT	586.50	1							
		3	1.3	19.0					
	585.00	5							
STIFF gray SILTY LOAM		6							
		8	2.0	14.0					
	582.50	9							
STIFF gray SANDY LOAM with SAND lens		3							
		4	1.1	19.0					
	580.00	6							
VERY STIFF tan/gray SILTY LOAM		4							
		5	2.5	19.0					
	577.50	5							
MEDIUM gray SILTY LOAM with 12% ORGANICS		2							
		2	0.7	42.0					
	575.00	4							
MEDIUM gray SILT		1							
		2	0.5	28.0					
	572.50	3							
SOFT gray SILT		0							
		0	0.3	32.0					
		5							
	569.50	5							
VERY DENSE gray SHALE		18							
		20							

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)
BBS, from 137 (Rev. 8-99)

Lin Engineering, Ltd.

Page 4 of 5

Soils Report

IL Rte. 5 (John Deere Road)
S.N. 081-1122



Illinois Department of Transportation
Division of Highways
Illinois Department of Transportation/D-2

SOIL BORING LOG

Page 1 of 1

081-1122 D92-004-06 proposed John Deere Road culvert, 10' x 5' box, .1 mile west of 53rd Street Date 6/28/11

ROUTE FAP 595 DESCRIPTION ROAD Culvert, 10' x 5' box, .1 mile west of 53rd Street LOGGED BY W. Garza

SECTION (142-1, 142) R LOCATION S. Moline Twp. - 14NW, SEC. TWP. 17N, RNG. 1W

COUNTY Rock Island DRILLING METHOD Hollow Stem Auger HAMMER TYPE CME-45 Automatic

STRUCT. NO. 081-1122	D	B	U	M	Surface Water Elev. _____ ft	D	B	U	M
Station 329+70	E	L	C	O	Stream Bed Elev. _____ ft	E	L	C	O
BORING NO. B-3	P	O	S	I	Groundwater Elev.: _____	P	O	S	I
Station 329+82	T	W	Q	T	First Encounter _____ ft	T	W	Q	T
Offset 58.00ft Rt CL	H	S	Qu	T	Upon Completion _____ ft	H	S	Qu	T
Ground Surface Elev. 588.70 ft	(ft)	(/6")	(tsf)	(%)	After _____ Hrs.	(ft)	(/6")	(tsf)	(%)

SOFT light brown SILTY CLAY LOAM					VERY DENSE gray SHALE (continued)	100/5			
					567.70				
VERY STIFF tan SILTY LOAM	586.70	4							
		6	2.3	18.0					
	585.20	9							
VERY STIFF tan SILTY LOAM		6							
		8	2.4	18.0					
	582.70	10							
STIFF gray SANDY LOAM		5							
		6	1.1	15.0					
	580.20	9							
LOOSE gray dirty fine SAND		4							
		3							
	577.70	5							
STIFF gray SILTY LOAM		1							
		2	1.0	23.0					
	575.20	5							
SOFT gray SILT		2							
		1	0.4	35.0					
	572.70	3							
SOFT gray SILT with GRAVEL and COAL fragments		2							
		5	0.3	33.0					
		7							
	569.70	7							
VERY DENSE gray SHALE		13							
		20							

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)
BBS, from 137 (Rev. 8-99)

Lin Engineering, Ltd.

Page 5 of 5

N:\PROJECTS\00033333\CONTRACT_2\Design\Structural\CAD\Culvert_530_329+71.06 (081-1122)\081-1122-54883-007_Boring_Log.dgn



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	CHECKED - APD	REVISED -
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PLOT DATE = 3/17/2015	CHECKED - BWS	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

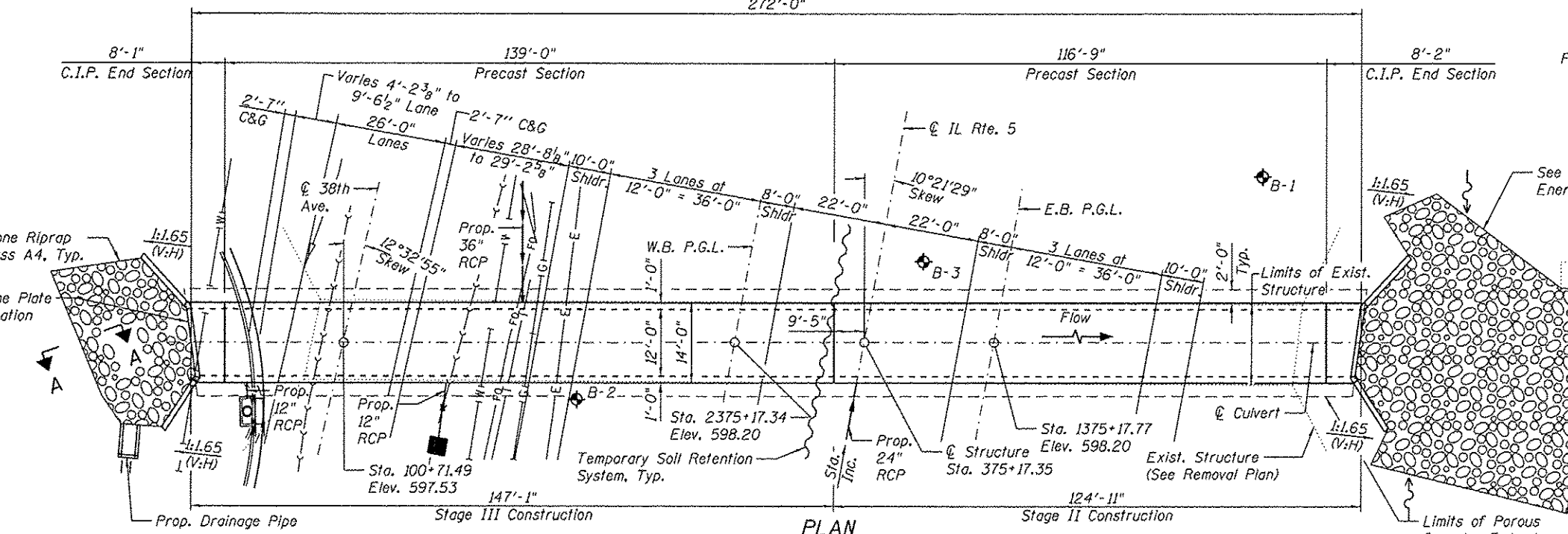
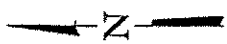
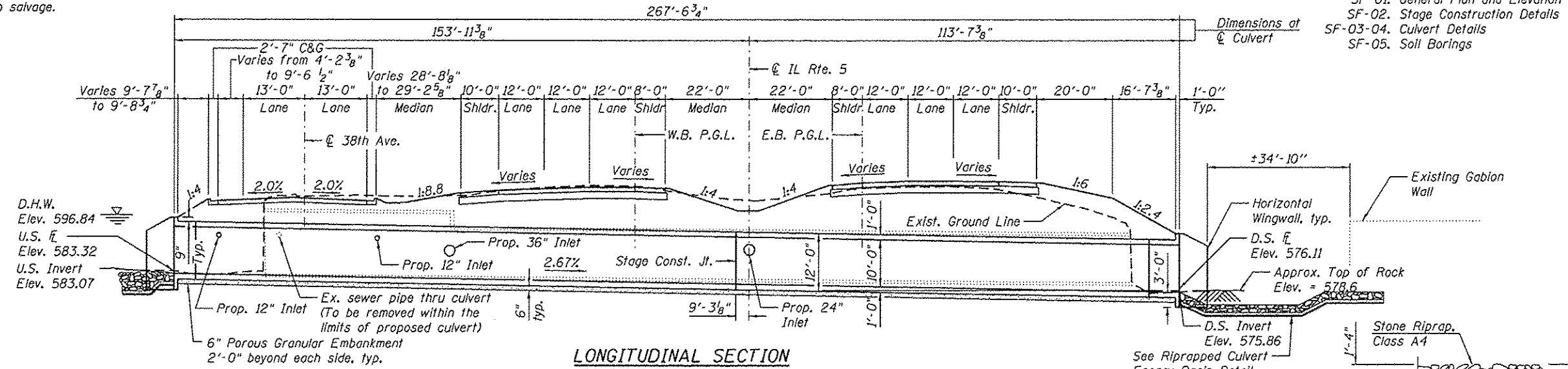
BORING LOGS
S.N. 081-1122
SHEET NO. SE-7 OF SE-7 SHEETS

F.A.P. RTE. 595	SECTION (142-1, 142)R	COUNTY ROCK ISLAND	TOTAL SHEETS 1353	SHEET NO. 982
CONTRACT NO. 64883				
ILLINOIS FED. AID PROJECT				

Bench Mark: Traffic signal controller along Rte. 5 Sta. 348+23.25 and 6908.6677' LT. Elev. 708.6620.

Existing Structure: The structure is a 12'x9' cast-in-place culvert approximately 181'-6" long with a 12'x12' extension on the north end approximately 51'-0" long. The existing culvert has an overall length of 232'-6". Existing structure is to be removed and replaced. Traffic will be maintained utilizing stage construction. Temporary pavement will be constructed to accommodate stage III traffic.

No salvage.



DESIGN SCOUR ELEVATION TABLE

Design Scour Elevation (ft.)	Upstream	Downstream
	580.07	572.86

GENERAL NOTES

The last section of precast culvert on each end shall have reinforcing bars extending from the precast culvert to be incorporated into the cast-in-place end sections as shown on sheet SF-03 of SF-05.
 Precast concrete box culverts shall conform to the design requirements of ASTM C1577.
 See Landscaping Plan for Riprap details and quantities.
 See sheet SF-04 of SF-05 for pipe inlet locations and details.

WATERWAY INFORMATION

Drainage Area = 970 Acres
 Existing Low Grade Elev. 598.70 @ Sta. 375+00
 Proposed Low Grade Elev. 598.21 @ Sta. 375+00

Flood	Freq. Yr.	Q C.F.S.	Opening Sq. Ft.		Headwater EL.	
			Exist.	Prop.	Exist.	Prop.
Design	10	790	-	33	597.31	591.61
Base	100	1891	108	53	598.92	598.49
OVT(E)	50+	1611	-	-	598.70	-
OVT(P)	50+	1611	108	58	-	598.21

10-Year Outlet Velocity from Existing Structure = N/A
 10-Year Outlet Velocity from Proposed Structure = 24.29 fps

STA. 375+17.35
 BUILT 20... BY
 STATE OF ILLINOIS
 F.A.P. RT. 595
 SEC (142-1, 142)R
 LOADING HL-93
 STRUCTURE NO. 081-1126

NAME PLATE
 See Std. 515001

TOTAL BILL OF MATERIAL

Item	Unit	Total
Porous Granular Embankment	Cu. Yd.	91
Rock Excavation for Structures	Cu. Yd.	100
Reinforcement Bars, Epoxy Coated	Pound	12,940
Name Plates	Each	1
Concrete Box Culverts	Cu. Yd.	59.7
Precast Concrete Box Culverts 12' X 10'	Foot	256.0
Membrane Waterproofing for Culverts	Sq. Yd.	488
Temporary Soil Retention System	Sq. Ft.	280

* Waterproofing membrane shall cover the top surface of the culvert and extend 6 inches up the inside face of the headwall. For precast box culverts, the waterproofing membrane shall cover the top 1 foot of the outside face of the sidewalls. For cast in place box culverts, the waterproofing membrane shall extend to 6 inches below the construction joint between the culvert side wall and the top slab on the outside face of the sidewalls.

INDEX OF SHEETS

- SF-01. General Plan and Elevation
- SF-02. Stage Construction Details
- SF-03-04. Culvert Details
- SF-05. Soil Borings

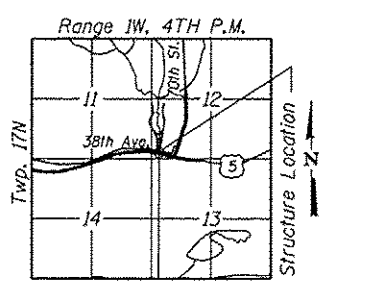
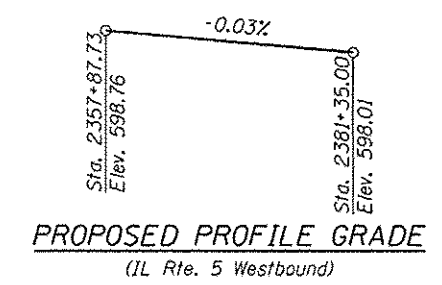
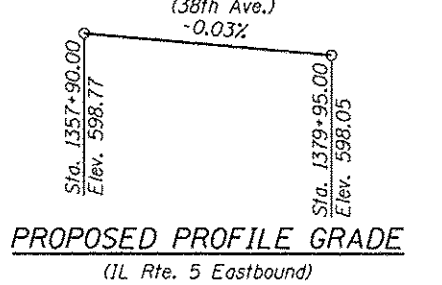
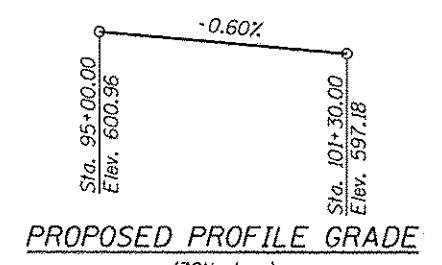
DESIGN SPECIFICATIONS
 2012 AASHTO LRFD Bridge Design Specifications,
 6th Edition with 2013 Interims

DESIGN STRESSES

- FIELD UNITS**
 f'c = 3,500 psi
 fy = 60,000 psi (Reinforcement)
- PRECAST UNITS**
 f'c = 5,000 psi
 fy = 60,000 psi (Reinforcement)
 fy = 65,000 psi (Welded Wire Fabric)

LOADING HL-93

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



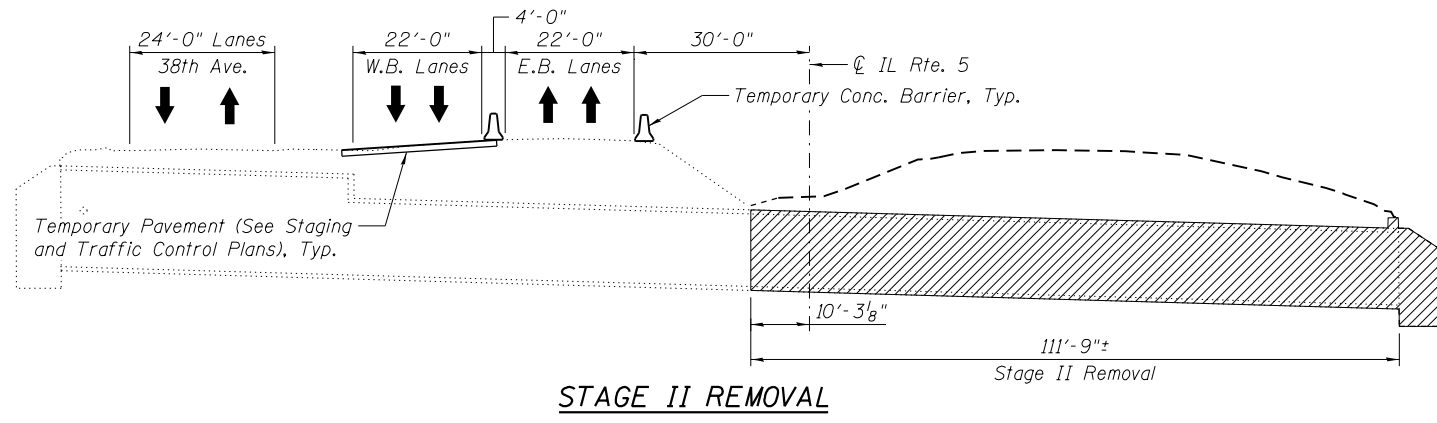
Michael T. Haley 3-13-15
 Michael T. Haley
 Licensed Structural Engineer
 State of Illinois No. 81-5991
 Expires 11/30/2016

Note:
 Refer to Schedule of Quantities
 for Trench Backfill information.

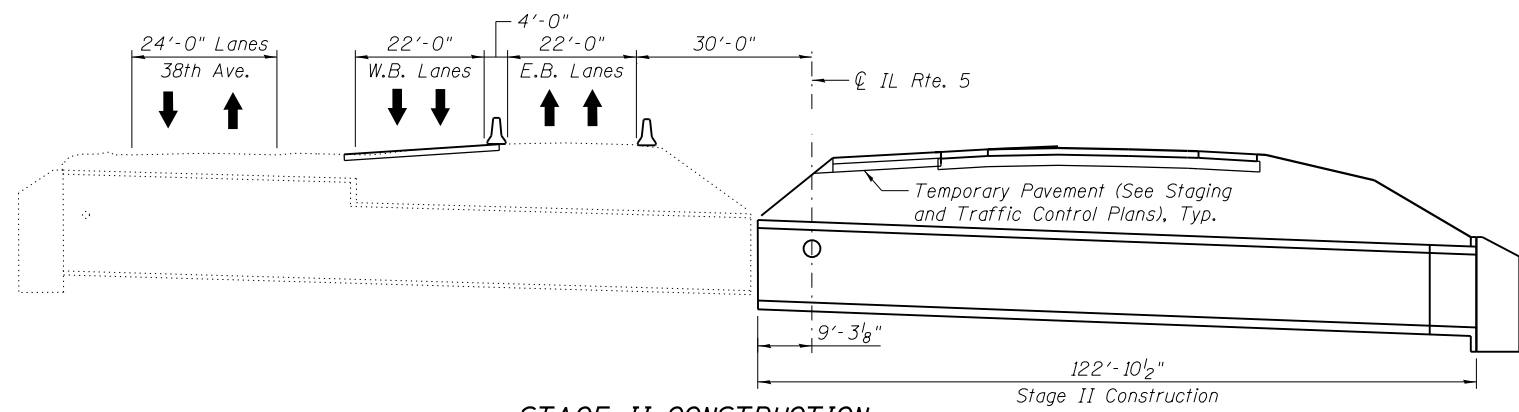
**GENERAL PLAN & ELEVATION
 IL RTE. 5/JOHN DEERE ROAD
 OVER DRAINAGE DITCH**

F.A.P. RTE. 595 - SEC. (142-1, 142)R

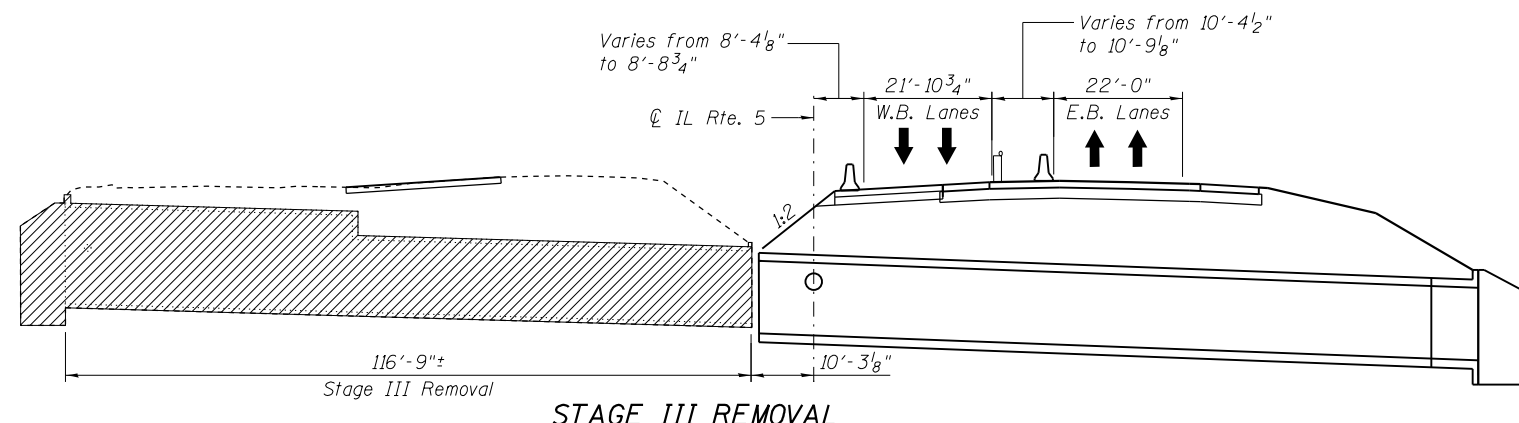
ROCK ISLAND COUNTY
 STA. 375+17.35
 S.N. 081-1126



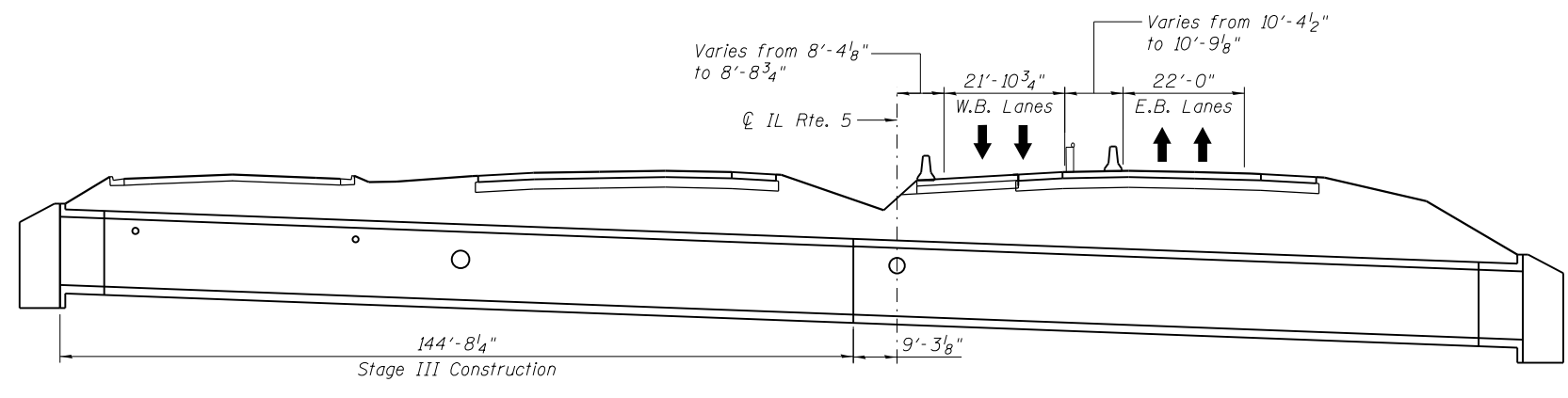
STAGE II REMOVAL



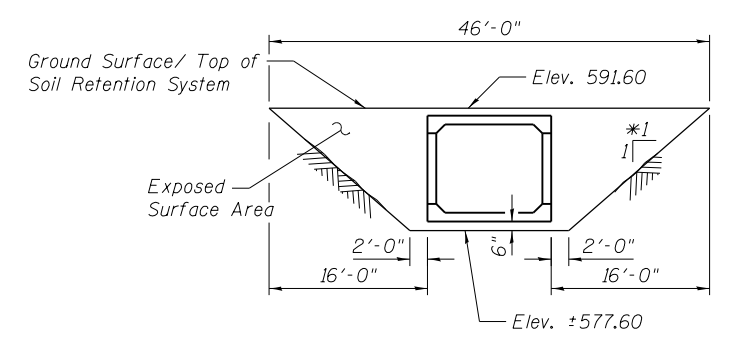
STAGE II CONSTRUCTION



STAGE III REMOVAL



STAGE III CONSTRUCTION



TEMPORARY SOIL RETENTION SYSTEM - STAGE II AND III
(Looking South) (Dimensions along Stage Construction Line)

*Excavation slope shown is for quantity use only. Actual excavation slope is to be determined in the field based on the soil conditions encountered and OSHA requirements.

- Notes:
1. Hatched area indicates removal of the existing structure.
 2. See Removal Plan for removal details and quantities.
 3. All staging cross sections are looking east unless otherwise noted.
 4. All dimensions are perpendicular to \bar{C} Roadway unless noted otherwise.
 5. For quantity and details of Temporary Concrete Barrier, see Staging and Traffic Control Plans.
 6. Stage removal line is perpendicular to the \bar{C} of structure.
 7. A cantilevered sheet piling design does not appear feasible and additional members or other retention systems may be necessary. The Contractor shall submit a temporary soil retention system design including plan details and calculations for review and acceptance by the Engineer.



USER NAME =	DESIGNED - BDC	REVISED
FILE NAME =	CHECKED - TBP	REVISED
PLOT SCALE =	DRAWN - AJF	REVISED
PLOT DATE =	CHECKED - TBP	REVISED

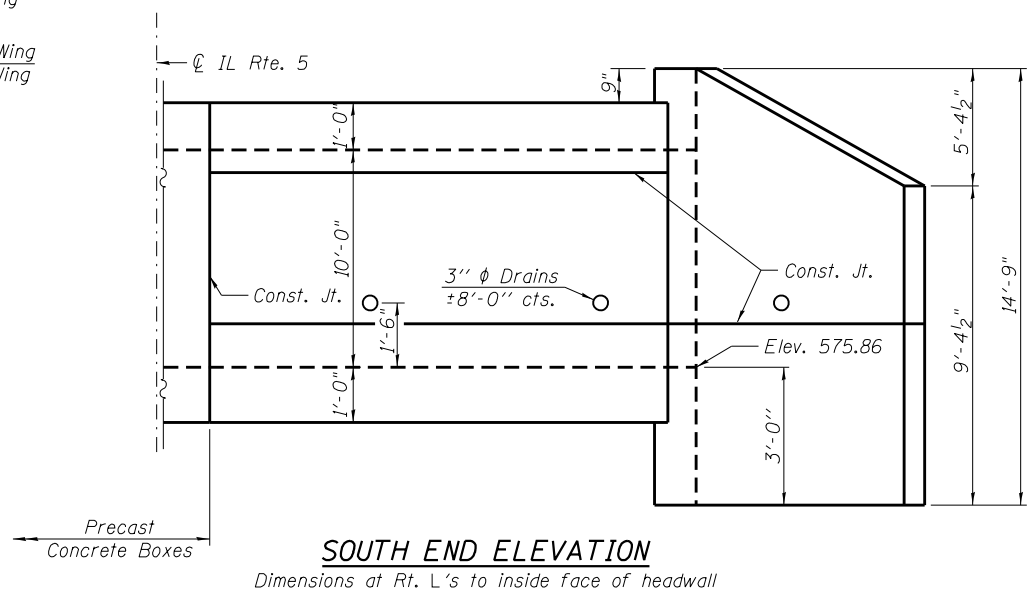
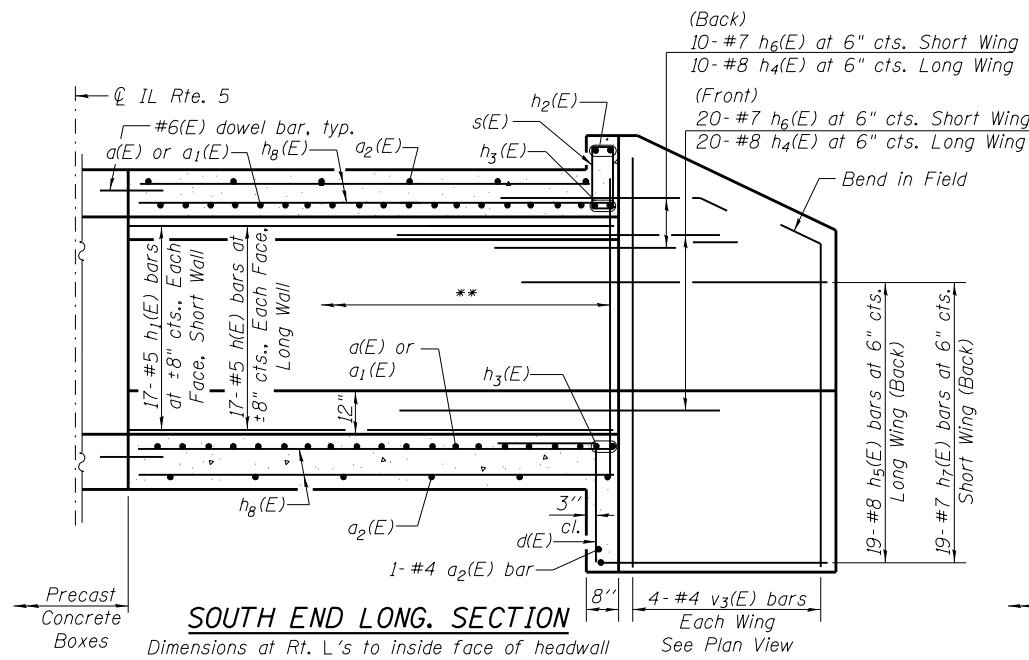
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STAGE CONSTRUCTION DETAILS
S.N. 081-1126

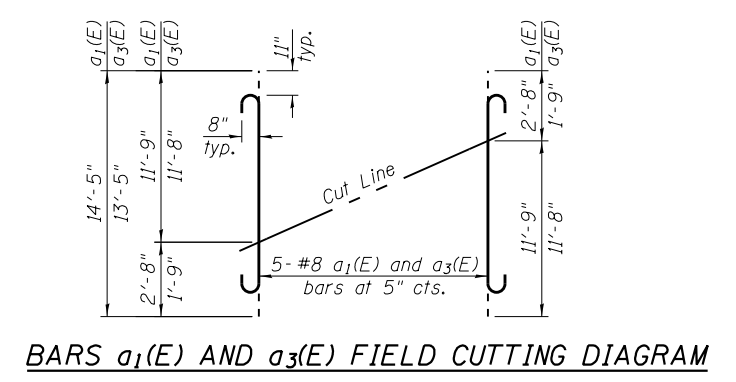
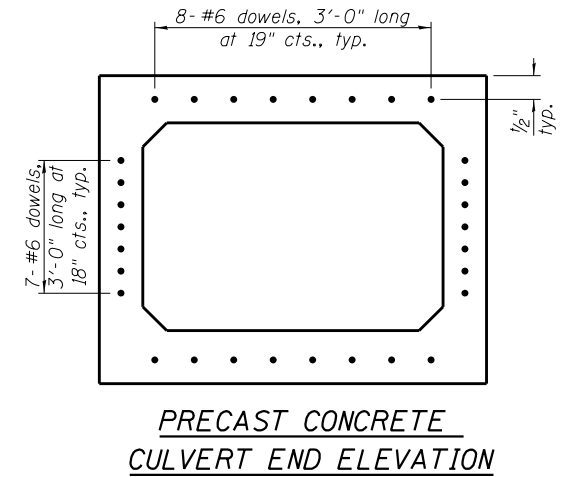
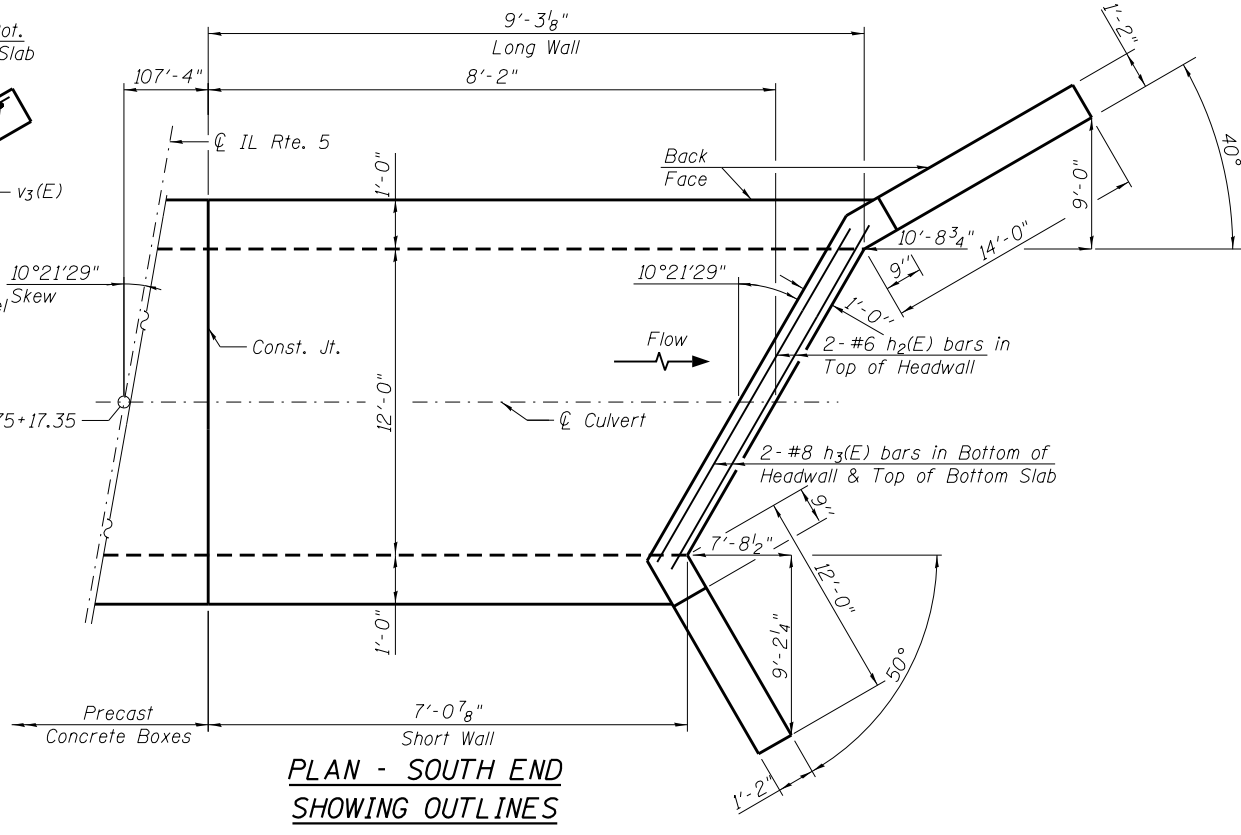
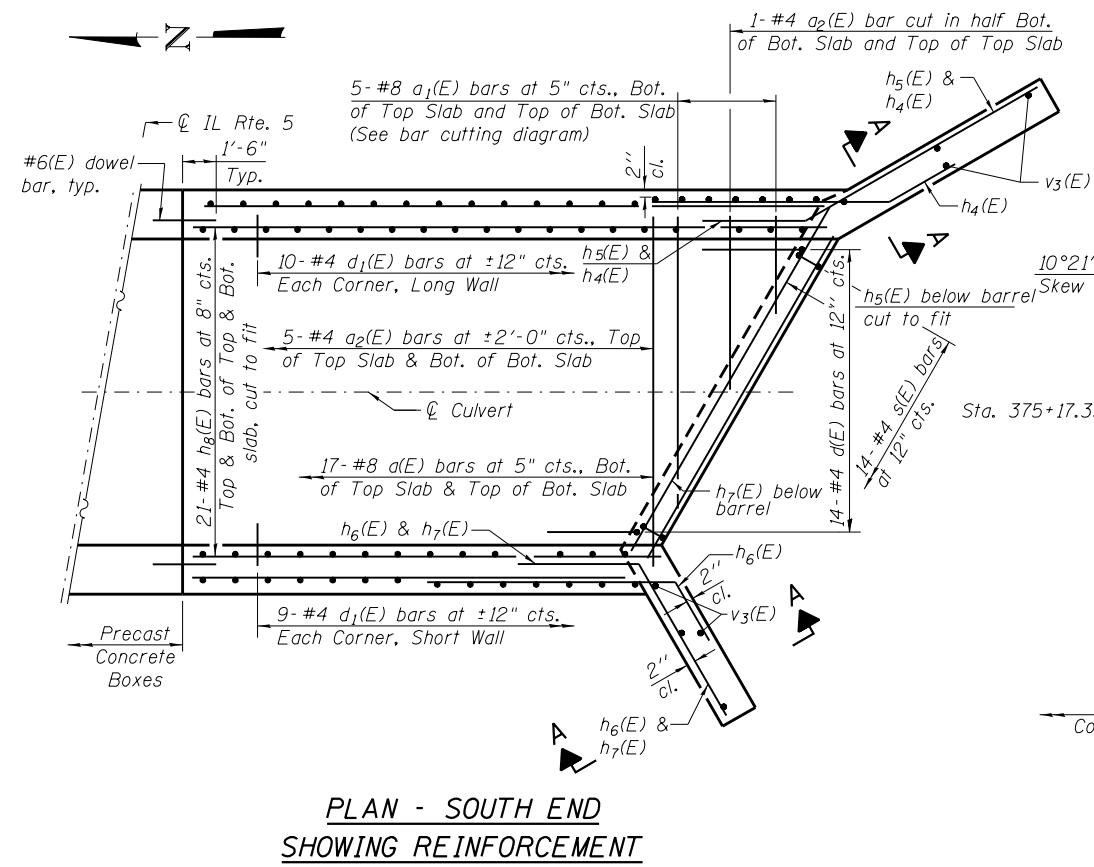
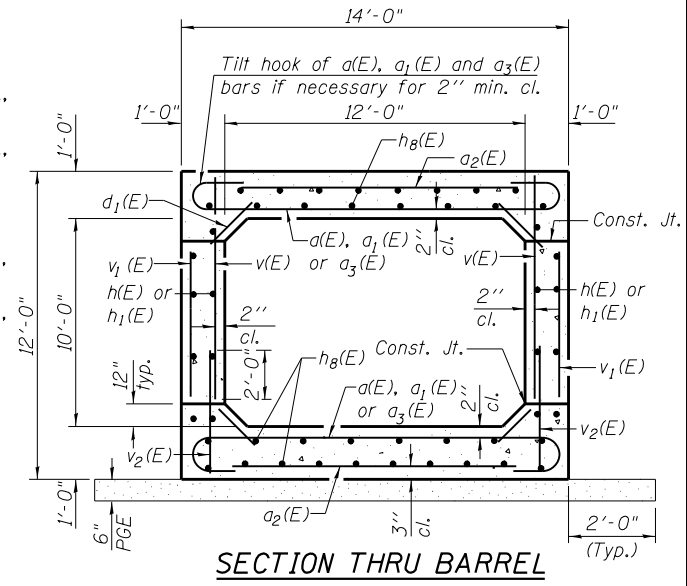
SHEET NO. SF-02 OF SF-05 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 64B83				

ILLINOIS FED. AID PROJECT



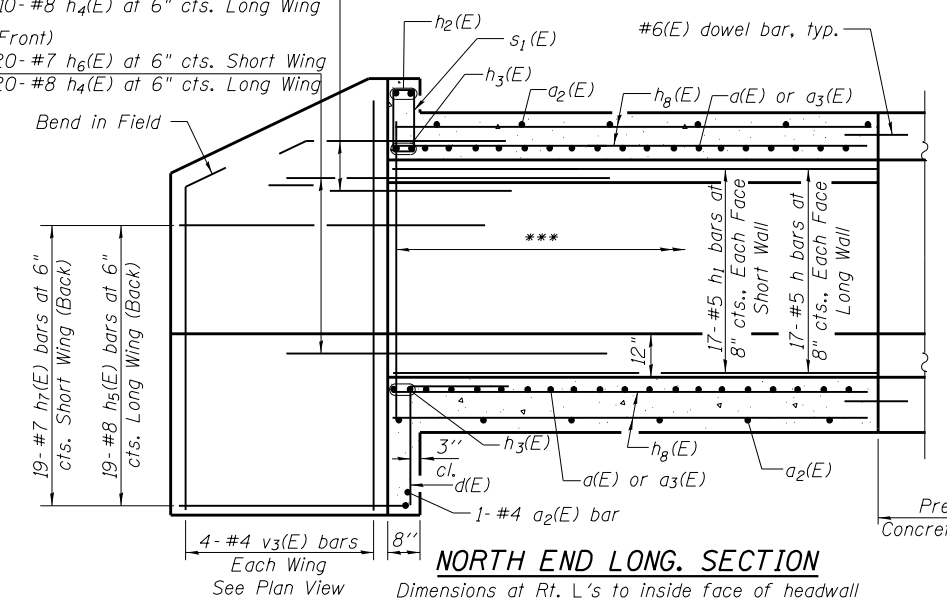
- **15-#5 v(E) bars at 6" cts., Inside Face, Short Wall
- 15-#5 v2(E) bars at 6" cts., Inside Face, Short Wall
- 15-#5 v1(E) bars at 6" cts., Outside Face, Short Wall
- 19-#5 v(E) bars at 6" cts., Inside Face, Long Wall
- 19-#5 v2(E) bars at 6" cts., Inside Face, Long Wall
- 19-#5 v1(E) bars at 6" cts., Outside Face, Long Wall



Notes:
A distance of half the length of the wingwall but not less than six feet of the barrel shall be poured monolithically with the wingwalls.
See Sheet SF-04 of SF-05 for Bill of Material and Bar Details.
See Sheet SF-04 of SF-05 for Section A-A.

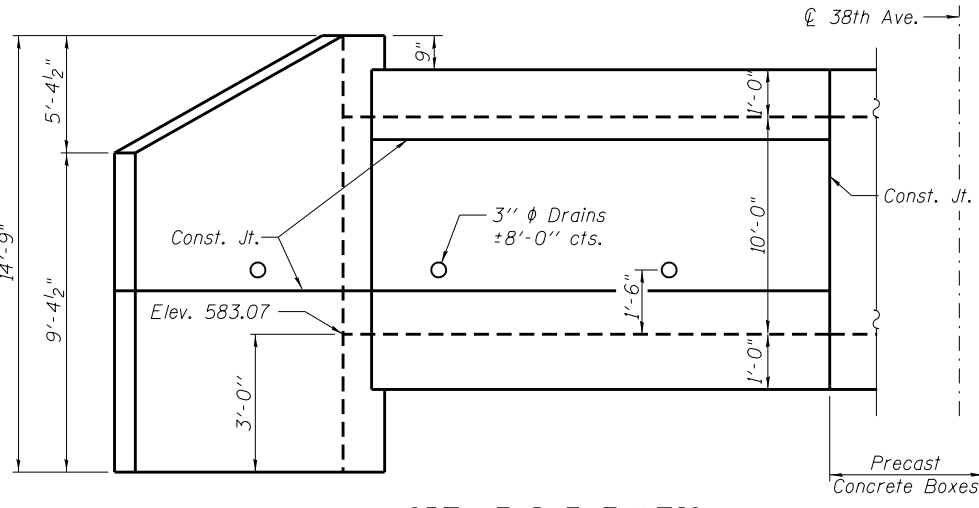
(Back)
 10-#7 h₆(E) at 6" cts. Short Wing
 10-#8 h₄(E) at 6" cts. Long Wing

(Front)
 20-#7 h₆(E) at 6" cts. Short Wing
 20-#8 h₄(E) at 6" cts. Long Wing

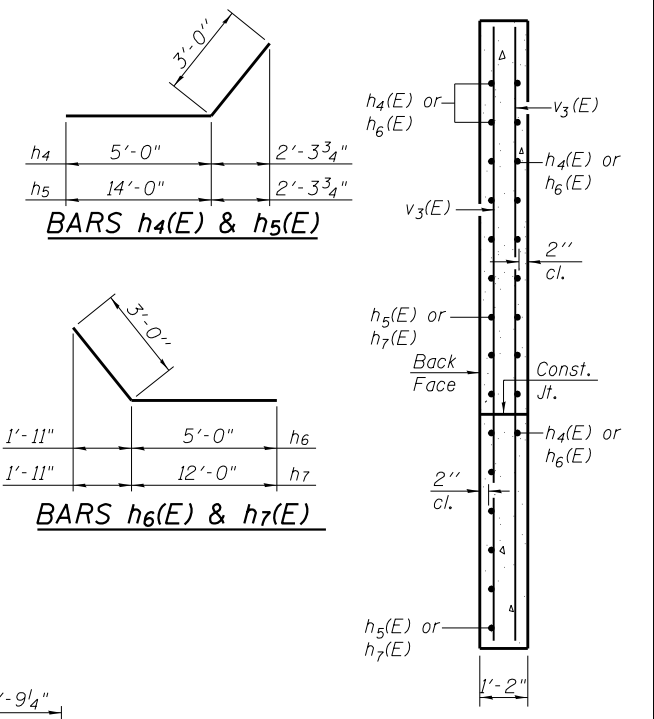


NORTH END LONG SECTION
 Dimensions at Rt. L's to inside face of headwall

- ***15-#5 v(E) bars at 6" cts., Inside Face, Short Wall
- 15-#5 v₂(E) bars at 6" cts., Inside Face, Short Wall
- 15-#5 v₁(E) bars at 6" cts., Outside Face, Short Wall
- 19-#5 v(E) bars at 6" cts., Inside Face, Long Wall
- 19-#5 v₂(E) bars at 6" cts., Inside Face, Long Wall
- 19-#5 v₁(E) bars at 6" cts., Outside Face, Long Wall



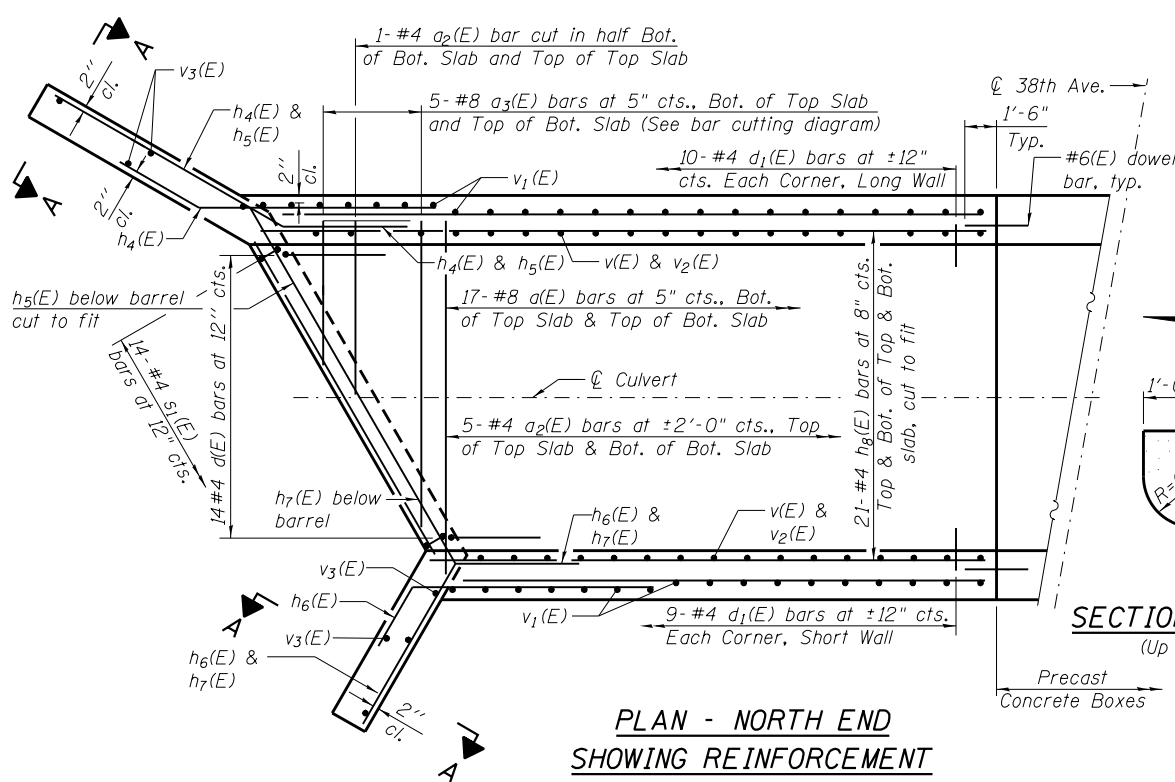
NORTH END ELEVATION
 Dimensions at Rt. L's to inside face of headwall



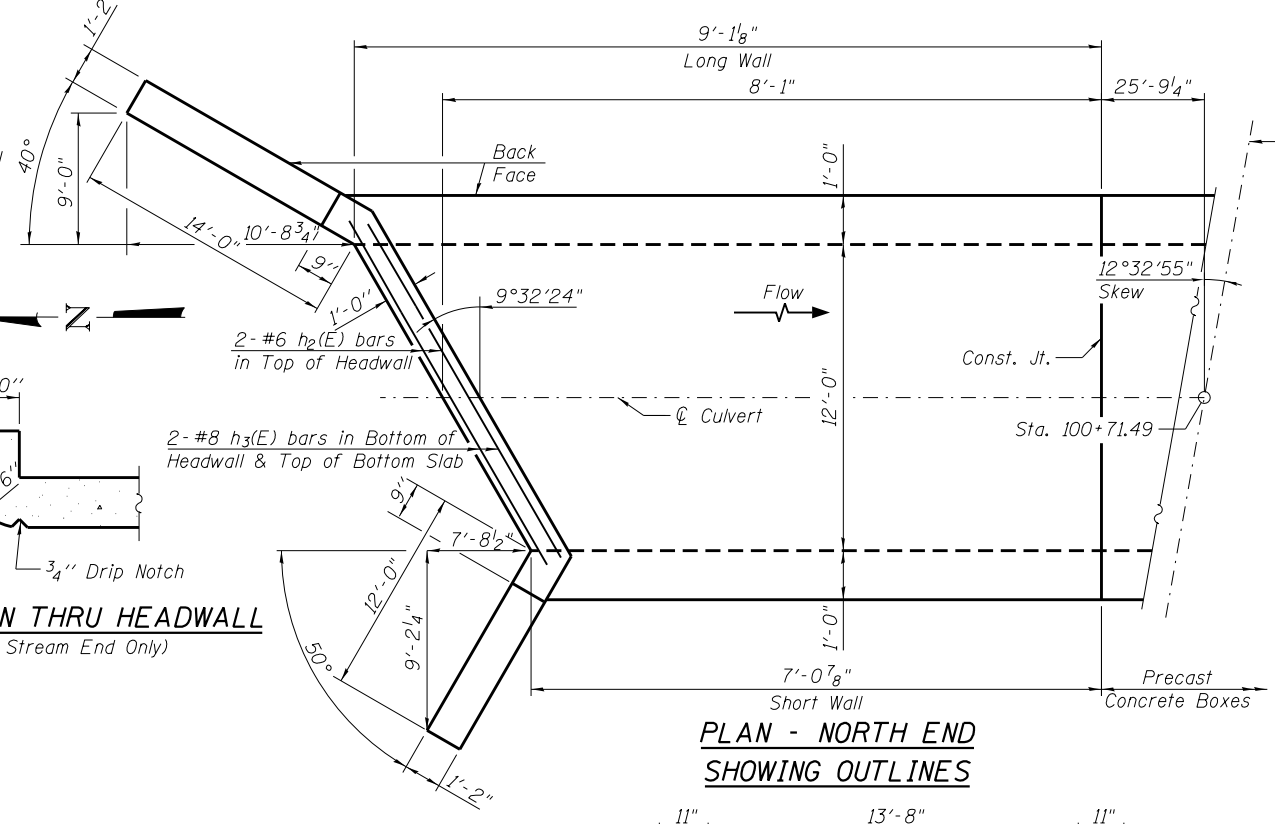
BARS h₄(E) & h₅(E)

BARS h₆(E) & h₇(E)

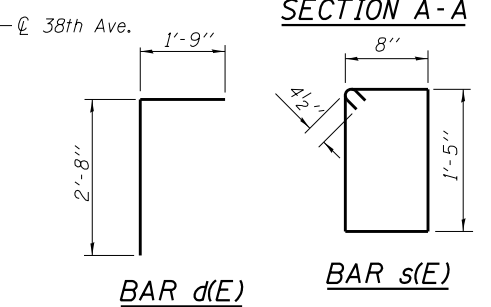
SECTION A-A



PLAN - NORTH END SHOWING REINFORCEMENT



PLAN - NORTH END SHOWING OUTLINES

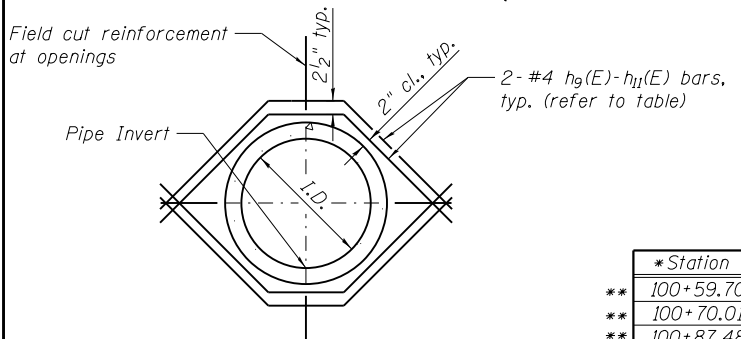


BAR d(E)

BAR s(E)

BILL OF MATERIAL
 (Cast-in-Place Sections)

Bar	No.	Size	Length	Shape
a(E)	68	#8	15'-6"	U
a ₁ (E)	5	#8	14'-5"	U
a ₂ (E)	24	#4	13'-8"	—
a ₃ (E)	5	#8	13'-5"	U
d(E)	28	#4	4'-5"	—
d ₁ (E)	76	#4	1'-8"	—
h(E)	68	#5	8'-11"	—
h ₁ (E)	68	#5	6'-8"	—
h ₂ (E)	4	#6	12'-11"	—
h ₃ (E)	8	#8	12'-11"	—
h ₄ (E)	60	#8	8'-0"	—
h ₅ (E)	38	#8	17'-0"	—
h ₆ (E)	60	#7	8'-0"	—
h ₇ (E)	38	#7	15'-0"	—
h ₈ (E)	168	#4	8'-11"	—
s(E)	14	#4	4'-11"	□
s ₁ (E)	14	#4	4'-11"	□
v(E)	68	#5	9'-8"	—
v ₁ (E)	68	#5	7'-8"	—
v ₂ (E)	68	#5	3'-10"	—
v ₃ (E)	16	#4	14'-5"	—
Concrete Box Culverts			Cu. Yd.	59.7
Reinforcement Bars, Epoxy Coated			Pound	12,940

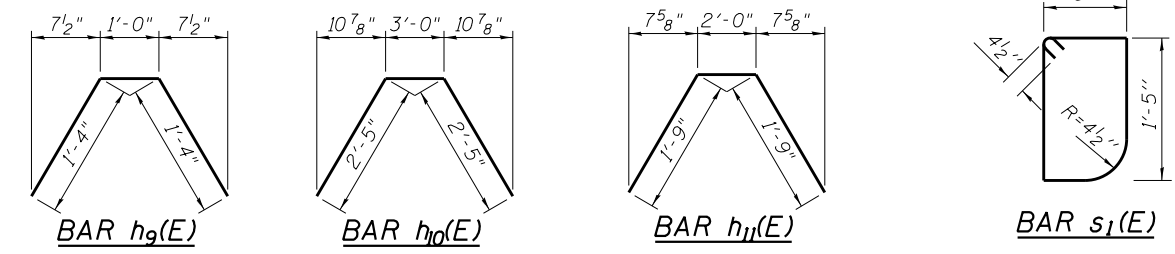


ADDITIONAL REINFORCEMENT FOR 12" φ, 24" φ, AND 36" φ PIPE OPENINGS

*Station	*Offset	Pipe Invert	I.D.	Bar
** 100+59.70	20.79' Lt.	590.46	12"	h ₉ (E)
** 100+70.01	25.53' Rt.	588.44	12"	h ₉ (E)
** 100+87.48	39.61' Rt.	585.32	36"	h ₁₀ (E)
** 100+91.03	119.99' Rt.	585.08	24"	h ₁₁ (E)

* Proposed 38th Ave.
 ** For information only. Cost included with Precast Concrete Box Culverts, 12' X 10'. See Drainage Plan for inlet details.

Notes:
 A distance of half the length of the wingwall but not less than six feet of the barrel shall be poured monolithically with the wingwalls.
 Cut reinforcement to miss inlet and sewer pipes in cast-in-place end section.
 See sheet SF-03 of SF-05 for section thru barrel.
 See sheet SF-03 of SF-05 for bar cutting diagram and drain detail.



BAR h₉(E)

BAR h₁₀(E)

BAR h₁₁(E)

BAR s₁(E)



Illinois Department of Transportation
Division of Highways
Illinois Department of Transportation/D-2

SOIL BORING LOG

Page 1 of 1
Date 6/1/11

ROUTE FAP 595 DESCRIPTION 081-1126 D92-004-06 John Deere Road box culvert, 12' x 9', 850' W. of 70th Street LOGGED BY W. Garza
SECTION (142-1, 142) R LOCATION S. Moline Twp. - 12SW, SEC., TWP. 17N, RNG. 1W
COUNTY Rock Island DRILLING METHOD Hollow Stem Auger HAMMER TYPE CME-45 Automatic

STRUCT. NO. Station	BORING NO. Station	Offset	Ground Surface Elev.	D (ft)	B (#6")	U (tsf)	M (%)	Surface Water Elev.		Groundwater Elev.:
								ft	ft	
081-1126 375+16	B-1 375+81	86.00 ft CL	593.30							578.8 ft 583.3 ft
MEDIUM brown SILTY CLAY LOAM						0.9	24.0			
MEDIUM light gray SILTY LOAM			591.30	1						
			589.80	2	0.6		25.0			
STIFF tan/gray SILTY LOAM				3						
			587.30	4	1.8		21.0			
STIFF tan SILTY LOAM				5						
			584.80	6	1.1		20.0			
STIFF tan SILTY LOAM				7						
			582.30	8	1.1		20.0			
MEDIUM dark gray LOAM				9						
			579.80	10	0.9		28.0			
VERY SOFT gray SANDY LOAM with LIMESTONE fragments				11						
			576.80	12	0.1		27.0			
VERY DENSE tan weathered LIMESTONE				13						
			574.80	14						
End of Boring				15						

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)
BBS, from 137 (Rev. 8-99)



Illinois Department of Transportation
Division of Highways
Illinois Department of Transportation/D-2

SOIL BORING LOG

Page 1 of 1
Date 6/3/11

ROUTE FAP 595 DESCRIPTION 081-1126 D92-004-06 John Deere Road box culvert, 12' x 9', 850' W. of 70th Street LOGGED BY W. Garza
SECTION (142-1, 142) R LOCATION S. Moline Twp. - 12SW, SEC., TWP. 17N, RNG. 1W
COUNTY Rock Island DRILLING METHOD Hollow Stem Auger HAMMER TYPE CME-45 Automatic

STRUCT. NO. Station	BORING NO. Station	Offset	Ground Surface Elev.	D (ft)	B (#6")	U (tsf)	M (%)	Surface Water Elev.		Groundwater Elev.:
								ft	ft	
081-1126 375+16	B-2 374+94	84.00 ft LL Med CL	596.10							578.8 ft 583.3 ft
MEDIUM tan SILTY LOAM						0.8	15.0			
STIFF tan SILTY LOAM			594.10	10						
			592.80	10	1.6		15.0			
VERY STIFF light gray SILTY LOAM				11						
			590.10	12	2.6		17.0			
STIFF tan SILTY LOAM				13						
			587.60	14	2.2		19.0			
STIFF tan SILTY LOAM				15						
			585.10	16	1.9		20.0			
MEDIUM dark gray CLAY LOAM with LIMESTONE fragments				17						
			581.60	18	0.7		23.0			
MEDIUM gray LOAM with SHALE at bottom 9"				19						
			579.60	20	0.8		21.0			
End of Boring				21						

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)
BBS, from 137 (Rev. 8-99)



Illinois Department of Transportation
Division of Highways
Illinois Department of Transportation/D-2

SOIL BORING LOG

Page 1 of 1
Date 6/5/11

ROUTE FAP 595 DESCRIPTION 081-1126 D92-004-06 John Deere Road box culvert, 12' x 9', 850' W. of 70th Street LOGGED BY W. Garza
SECTION (142-1, 142) R LOCATION S. Moline Twp. - 12SW, SEC., TWP. 17N, RNG. 1W
COUNTY Rock Island DRILLING METHOD Hollow Stem Auger HAMMER TYPE CME-45 Automatic

STRUCT. NO. Station	BORING NO. Station	Offset	Ground Surface Elev.	D (ft)	B (#6")	U (tsf)	M (%)	Surface Water Elev.		Groundwater Elev.:
								ft	ft	
081-1126 375+18	B-3 375+33	11.00 ft RL Med CL	598.80							581.6 ft 580.1 ft
STIFF tan SILTY LOAM						1.5	16.0			
VERY STIFF tan SILTY LOAM			596.60	12						
			595.10	12	3.1		17.0			
MEDIUM tan/gray SILTY LOAM				13						
			592.60	13	0.9		20.0			
MEDIUM tan SILT				14						
			590.10	14	0.9		17.0			
VERY STIFF tan SILTY LOAM				15						
			587.60	15	2.5		18.0			
STIFF dark brown SILTY CLAY LOAM				16						
			585.10	16	1.1		24.0			
MEDIUM dark gray SILTY LOAM with ORGANICS				17						
			582.10	17	0.6		36.0			
MEDIUM/DENSE light gray SHALE				18						
			580.10	18						
VERY DENSE light gray SHALE				19						
				20						

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)
BBS, from 137 (Rev. 8-99)

USER NAME =	DESIGNED - BDC	REVISED
FILE NAME =	CHECKED - TBP	REVISED
PLOT SCALE =	DRAWN - AJF	REVISED
PLOT DATE =	CHECKED - TBP	REVISED

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
595	(142-1, 142)R	ROCK ISLAND	1353	987
CONTRACT NO. 64B83				

Bench Mark: Traffic signal controller along Rte. 5 Sta. 348+23.25 and 6908.667' LT. Elev. 708.6620.

Existing Structure: The structure is a 36" reinforced concrete pipe culvert approximately 236'-0" long. Existing structure to be removed and replaced. Traffic to be maintained utilizing stage construction. Temporary pavement will be constructed to accommodate Stage I and Stage II Traffic.

No salvage.

INDEX OF SHEETS

- SG-1. General Plan and Elevation
- SG-2. Stage Construction Details
- SG-3.-SG-4. Concrete Drop Box Details
- SG-5. Boring Logs

DESIGN SPECIFICATIONS

2012 AASHTO LRFD Bridge Design Specifications, 6th Edition with 2013 Interims

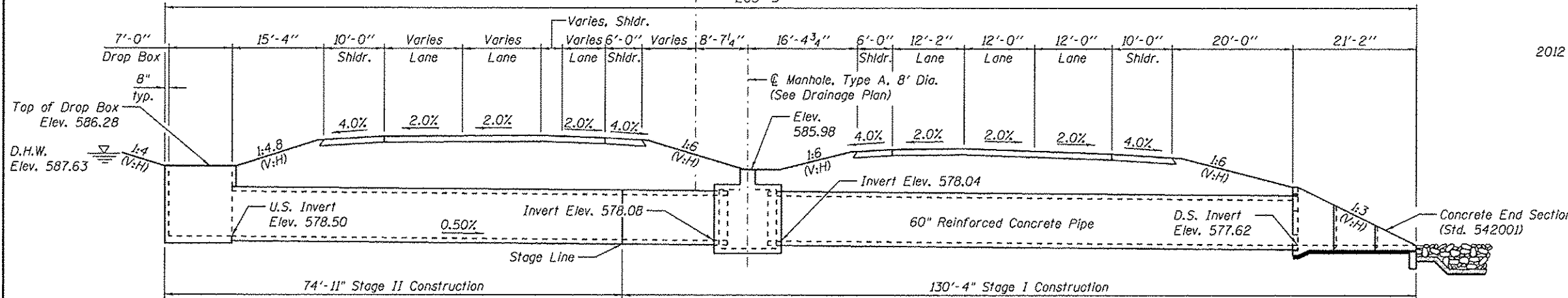
DESIGN STRESSES

FIELD UNITS

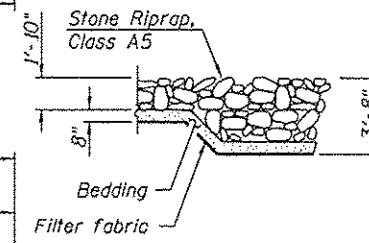
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 $f_y = 60,000$ psi (Reinforcement)

PRECAST UNITS

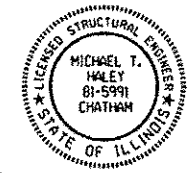
$f'_c = 5,000$ psi
 $f_y = 60,000$ psi (Reinforcement)
 $f_y = 65,000$ psi (Welded Wire Fabric)



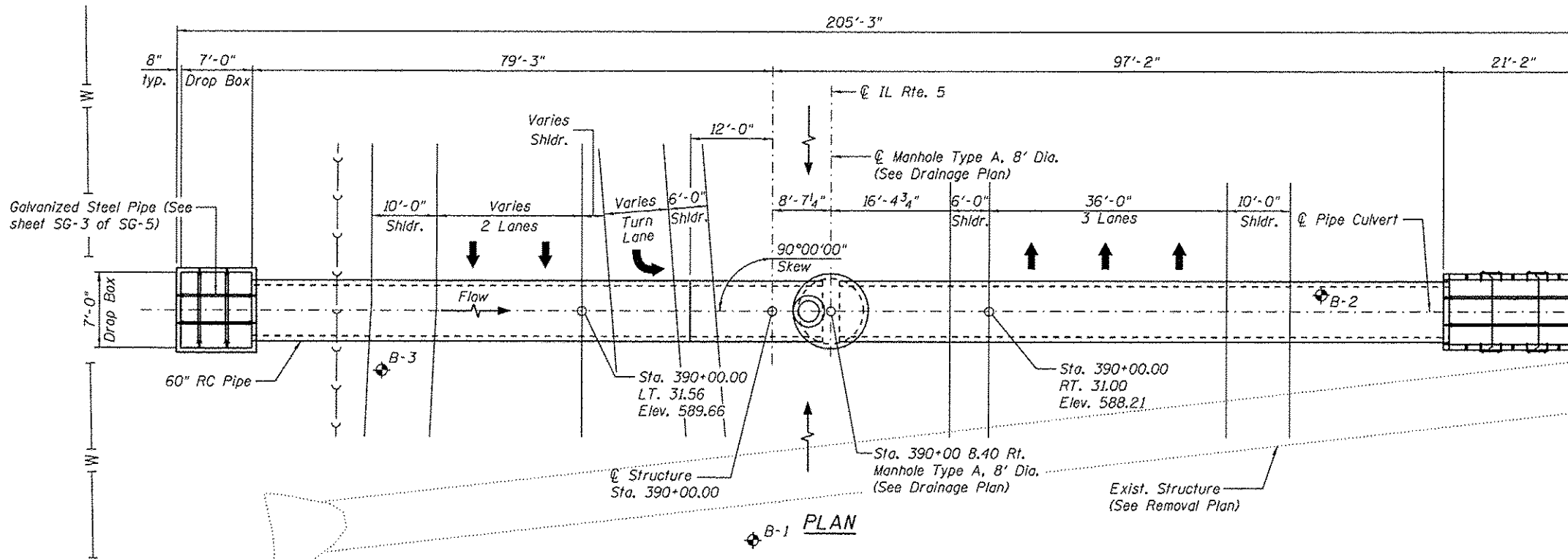
LONGITUDINAL SECTION
 (Dimensions at Rt. L's to C Roadway)
 (Looking East)



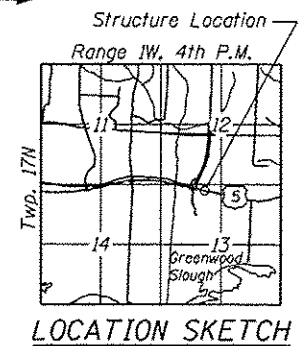
SECTION A-A



Michael T. Haley 3-13-15
 Michael T. Haley
 Licensed Structural Engineer
 State of Illinois No. 81-5991
 Expires 11/30/2016



PLAN



LOCATION SKETCH

WATERWAY INFORMATION

Drainage Area = 32 Acres
 Existing Low Grade Elev. 589.72 @ Sta. 390+40
 Proposed Low Grade Elev. 589.72 @ Sta. 390+40

Flood	Freq. Yr.	C.F.S.	Opening Sq. Ft.		Headwater El.	
			Exist.	Prop.	Exist.	Prop.
Design	10	53	-	6.1	-	587.17
Design	50	99	7.1	9.8	589.80	587.63
Base	100	123	7.1	11.6	589.83	587.84
OVT(E)	>50	64	-	-	589.72	-
Max. Calc.	500	209	7.1	17.3	589.93	588.50

10-Year Outlet Velocity from Existing Structure = N/A
 10-Year Outlet Velocity from Proposed Structure = 8.64 fps

TOTAL BILL OF MATERIAL

Item	Unit	Total
Concrete Structures	Cu. Yd.	7.1
Reinforcement Bars, Epoxy Coated	Pound	1,100

Note:
 Refer to Schedule of Quantities for Trench Backfill, Concrete End Section, and Pipe Culvert, Class A, Type 2 60", information.

DESIGN SCOUR ELEVATION TABLE

Design Scour Elevation (ft.)	Upstream	Downstream
	577.75	574.25

GENERAL NOTES

Concrete Pipe Culvert shall conform to the requirements of Section 542 of the Standard Specifications and the applicable requirements of AASHTO M259.
 Pipe Culvert shall be constructed before placing embankment for roadway.
 See Landscaping Plan for Riprap details and quantities.
 The roadway over the culvert will follow the existing profile.

GENERAL PLAN & ELEVATION
IL Rte. 5/JOHN DEERE ROAD
OVER DRAINAGE DITCH
F.A.P. RTE. 595 SEC (142-1, 142)R
ROCK ISLAND COUNTY
STA. 390+00.00
S.N. 081-1127



USER NAME =	DESIGNED JJA	REVISIONS
FILE NAME =	CHECKED TBP	REVISIONS
PLOT SCALE =	DRAWN JJA	REVISIONS
PLOT DATE =	CHECKED TBP	REVISIONS

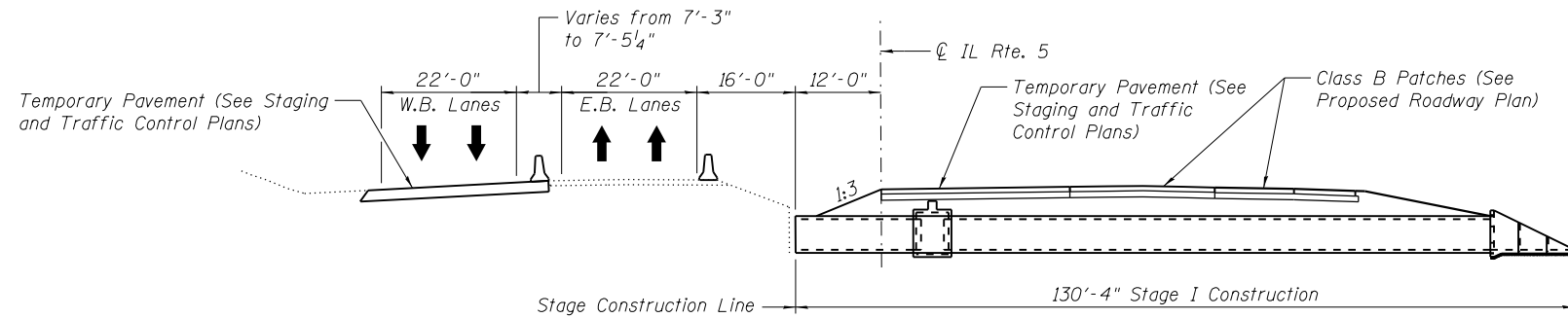
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

GENERAL PLAN & ELEVATION
 S.N. 081-1127

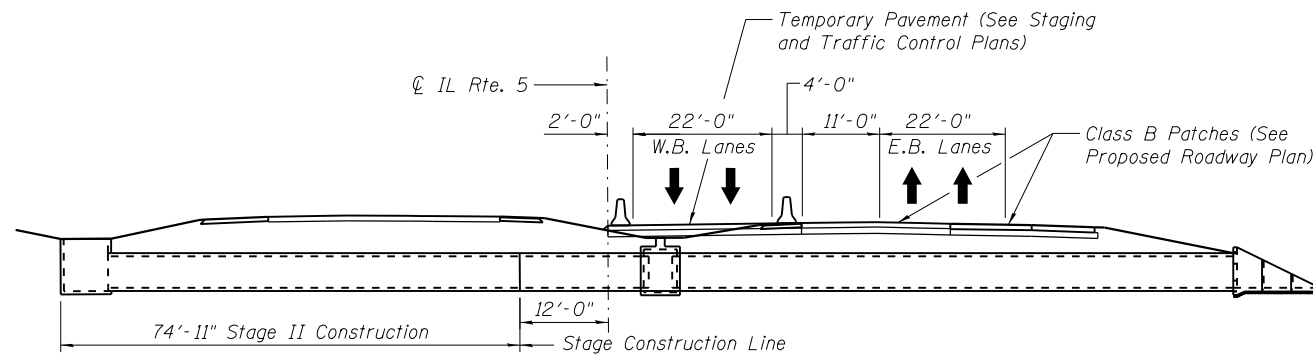
SHEET NO. SG-1 OF SG-5 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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			CONTRACT NO. 64B83	

ILLINOIS FED. AID PROJECT



STAGE I CONSTRUCTION



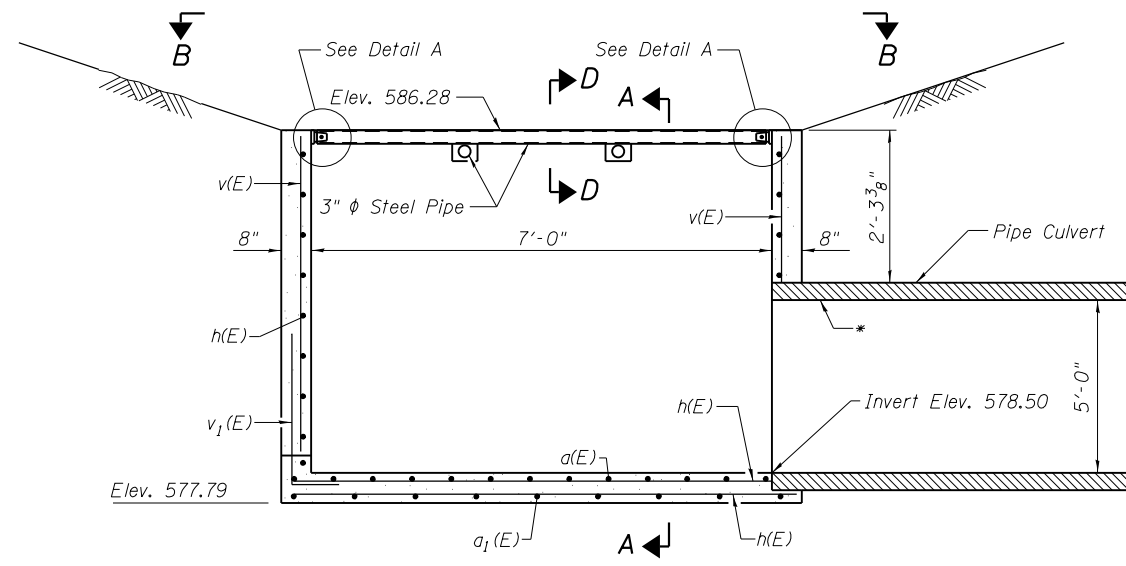
STAGE II CONSTRUCTION

Notes:

1. All staging cross sections are looking east.
2. All dimensions are perpendicular to CL Roadway unless noted otherwise.
3. For quantity and details of Temporary Concrete Barrier, see Staging and Traffic Control Plans.
4. See Removal Plan for culvert removal details and quantities.

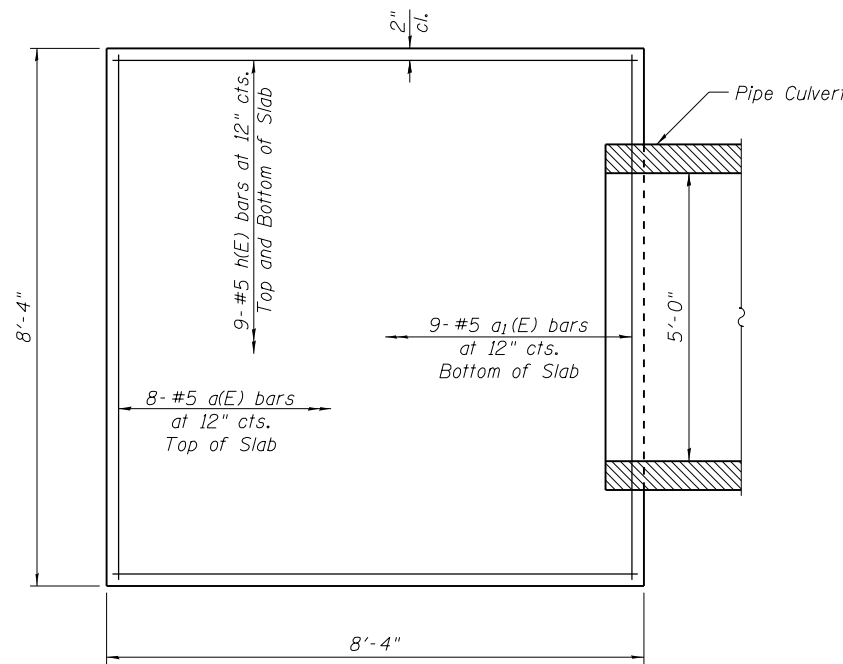
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FILE NAME =	CHECKED TBP	REVISED
PLOT SCALE =	DRAWN JJA	REVISED
PLOT DATE =	CHECKED TBP	REVISED

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
595	(142-1, 142)R	ROCK ISLAND	1353	989
CONTRACT NO. 64B83				
ILLINOIS FED. AID PROJECT				

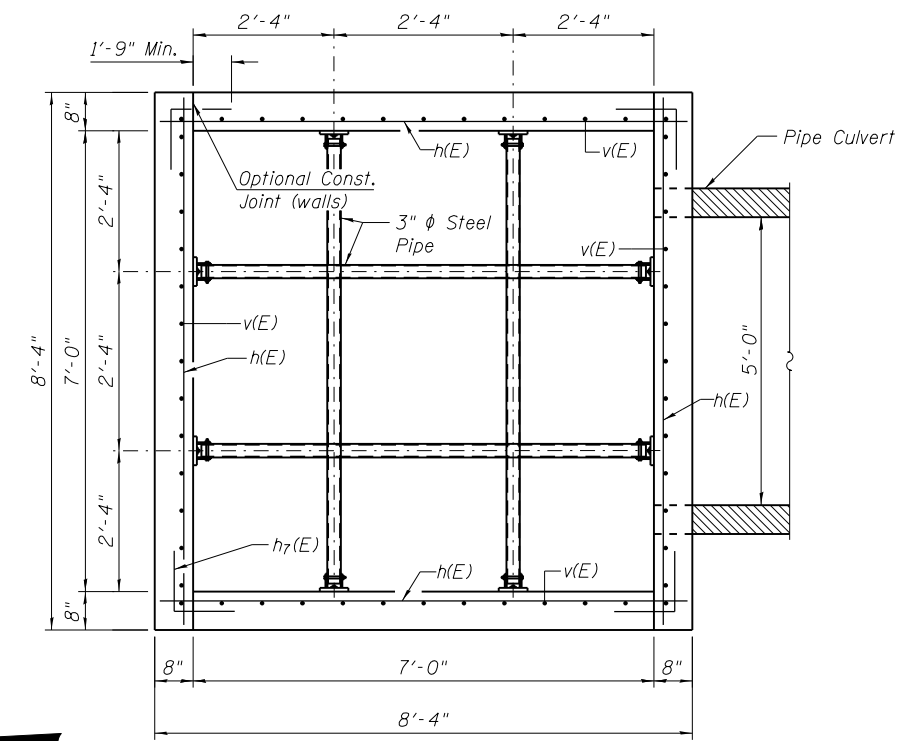


LONGITUDINAL SECTION
(Looking East)

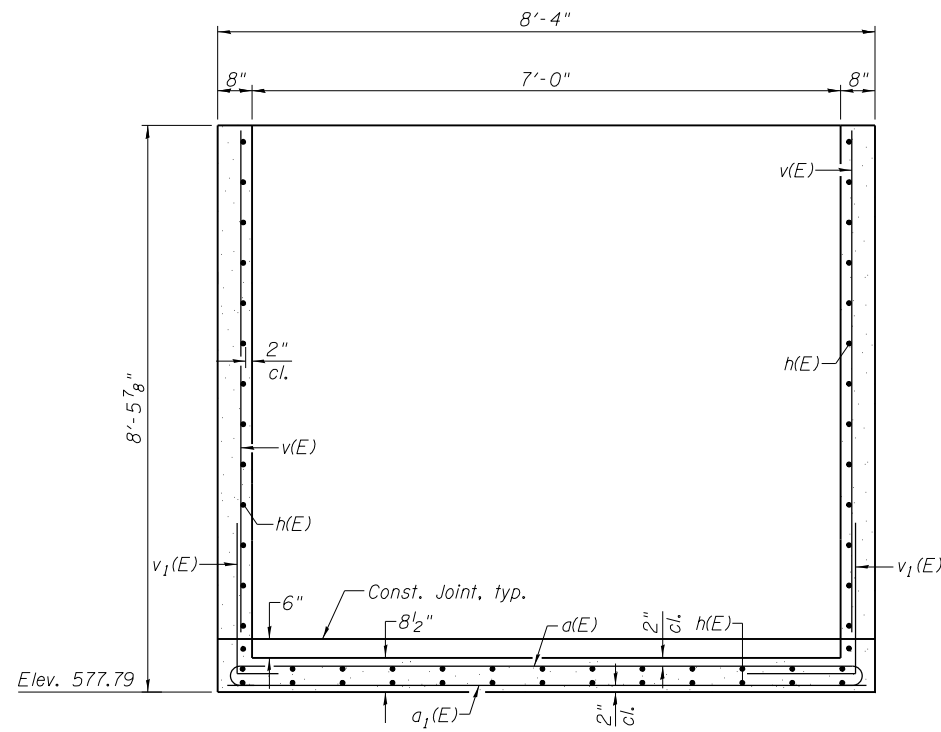
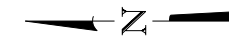
* Provide temporary support at end of pipe to support weight of wet concrete. Temporary support shall not be removed until 72 hours have elapsed after the pour and concrete has attained a minimum flexure of 650 psi or a compressive strength of 350 psi. Cost included with Pipe Culverts, Class A, Type 2 60".



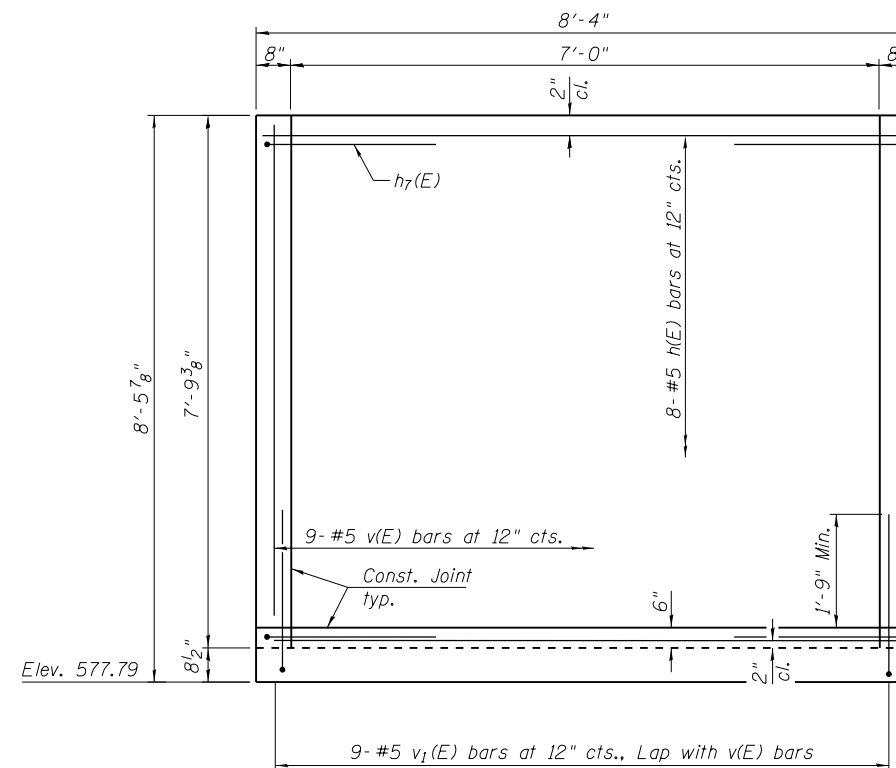
SLAB PLAN



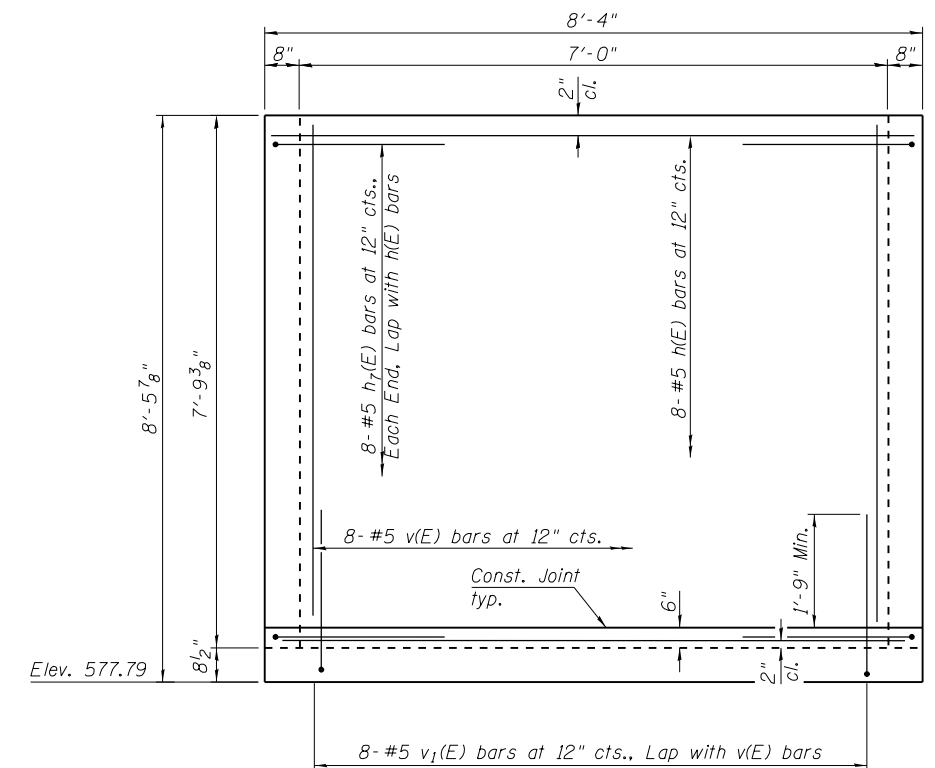
VIEW B-B



SECTION A-A



EAST AND WEST WALLS



NORTH WALL

MIN BAR LAP
#5 Bar = 1'-9"

Note:
See sheet SG-4 of SG-5 for Detail A, Section D-D, South Wall, bar details, and Bill of Material.

(Sheet 1 of 2)



USER NAME =	DESIGNED	JJA	REVISED
FILE NAME =	CHECKED	TBP	REVISED
PLOT SCALE =	DRAWN	JJA	REVISED
PLOT DATE =	CHECKED	TBP	REVISED

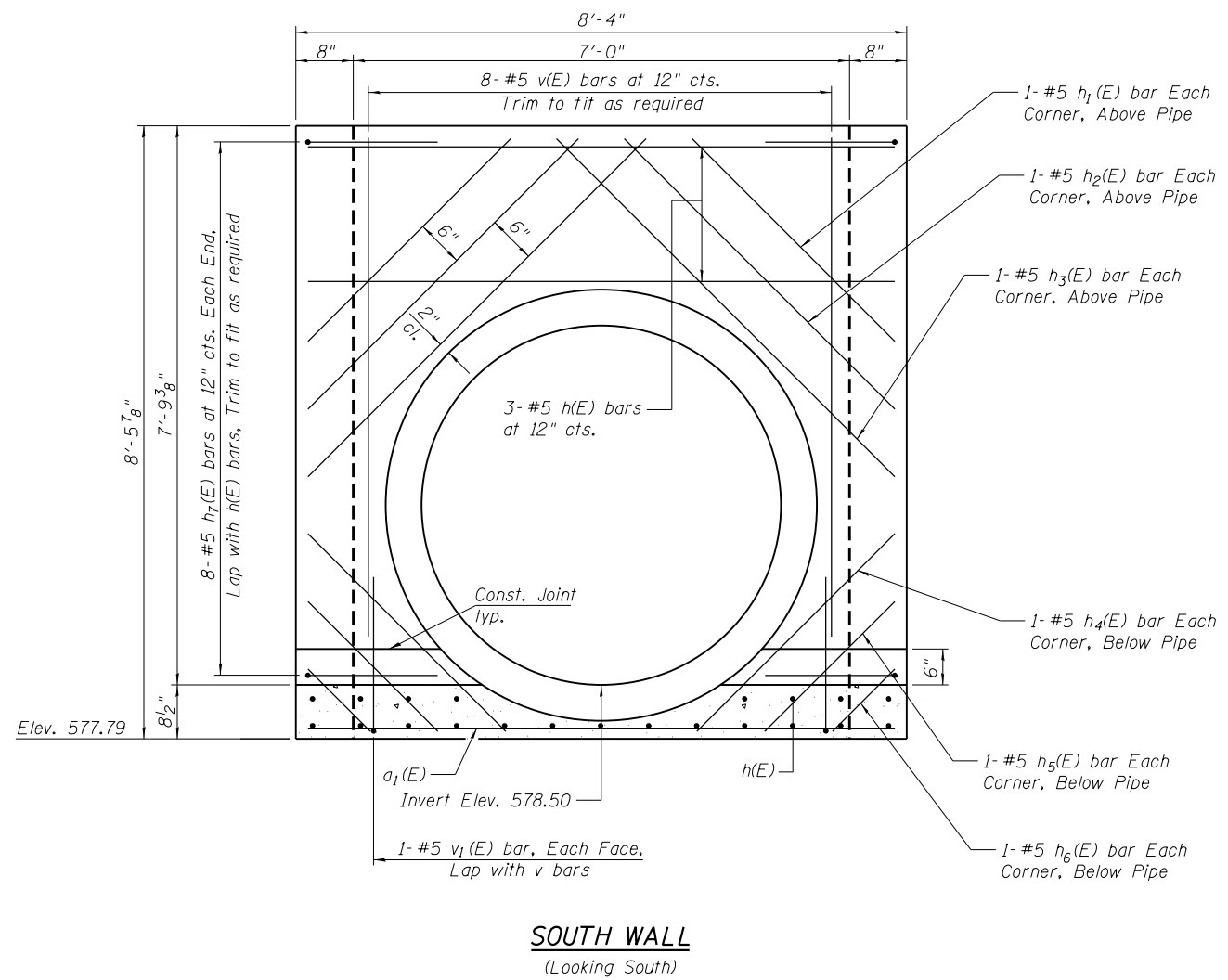
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CONCRETE DROPBOX DETAILS
S.N. 081-1127

SHEET NO. SG-3 OF SG-5 SHEETS

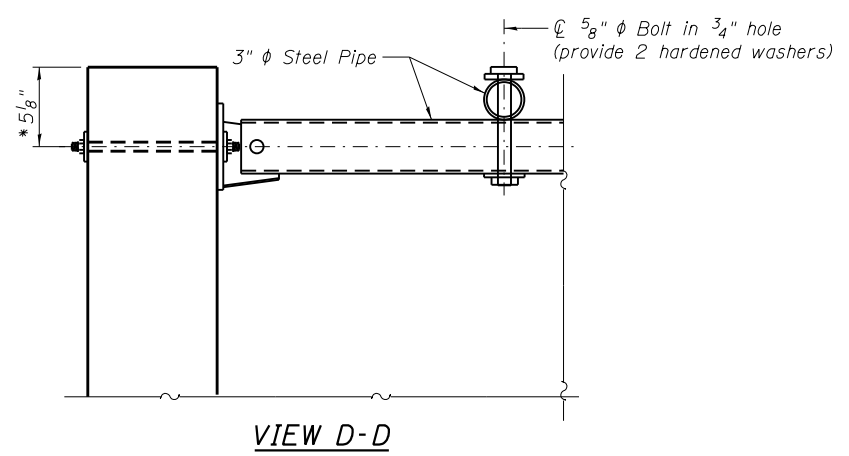
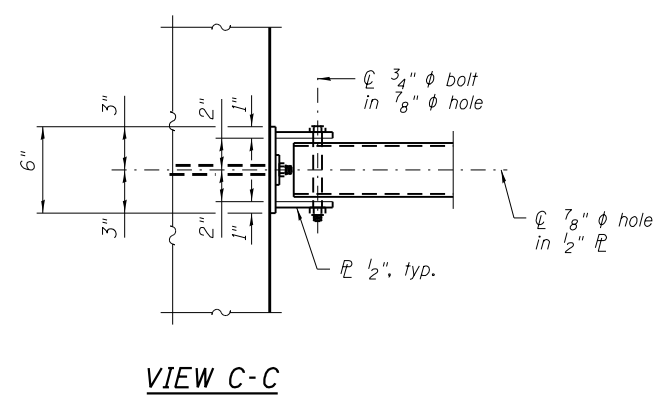
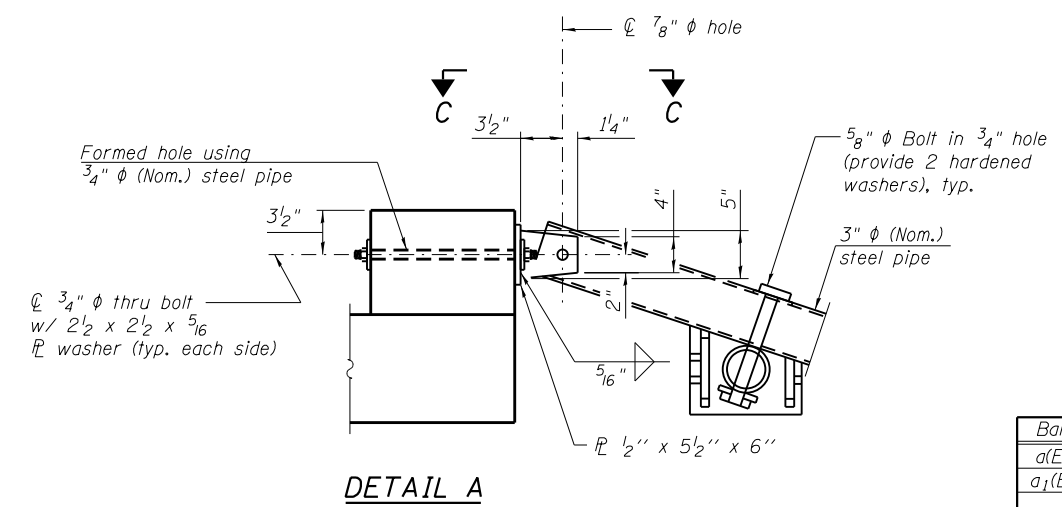
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
595	(142-1, 142)R	ROCK ISLAND	1353	990
CONTRACT NO. 64B83				

ILLINOIS FED. AID PROJECT



BILL OF MATERIAL
(For information only)

ITEM	UNIT	TOTAL
3" Galvanized Steel Pipe	Each	4
5/8"x9" Galvanized Steel Bolts	Each	4

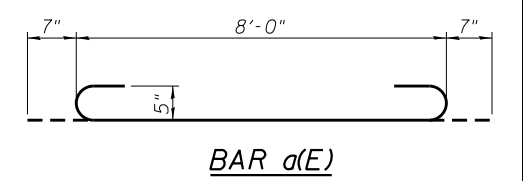
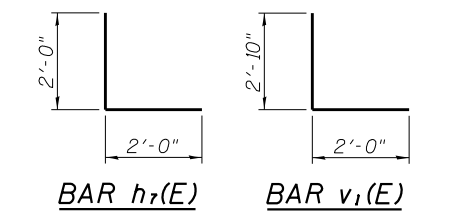


* Measured perpendicular to top of culvert wall. In addition, formed hole shall be located a minimum of 6" measured horizontally from any vertical joints necessary for construction of the culvert end section.

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a(E)	8	#5	9'-2"	U
a1(E)	9	#5	8'-0"	U
h(E)	45	#5	8'-0"	—
h1(E)	2	#5	4'-8"	—
h2(E)	2	#5	5'-8"	—
h3(E)	2	#5	6'-8"	—
h4(E)	2	#5	3'-8"	—
h5(E)	2	#5	2'-8"	—
h6(E)	2	#5	1'-8"	—
h7(E)	32	#5	4'-0"	L
v(E)	34	#5	6'-11"	—
v1(E)	28	#5	4'-10"	L
Concrete Structures			Cu. Yd.	7.1
Reinforcement Bars, Epoxy Coated			Pound	1,100

Notes:
Cut bars to miss precast pipe opening.
Cost of Galvanized Pipe, Steel Plates, Bolts, Nuts, and washers shall be included in cost of Concrete Structures.
Bolts, nuts and washers shall be in accordance with Article 1006.08 of the Standard Specifications and shall be galvanized.
The minimum distance from the center of a hole to the free edge of a structural shape or plate shall be 1 1/2" unless noted otherwise.





Illinois Department of Transportation
Division of Highways
Illinois Department of Transportation/D-2

SOIL BORING LOG

Page 1 of 1

Date 6/6/11

ROUTE FAP 595 DESCRIPTION 081-1127 D92-004-06 John Deere Road box culvert, 6' x 3', 600' E. of 70th Street LOGGED BY W. Garza
SECTION (142-1, 142) R LOCATION S. Moline Twp. - 10SW, SEC., TWP. 17N, RNG. 1W
COUNTY Rock Island DRILLING METHOD Hollow Stem Auger HAMMER TYPE CME-45 Automatic

STRUCT. NO. Station	BORING NO. Station Offset Ground Surface Elev.	D E P T H ft	B L O W S Qu	U C S T	M O I S T ure (%)	Surface Water Elev.		Stream Bed Elev.		D E P T H ft	B L O W S Qu	U C S T	M O I S T ure (%)
						ft	(ft)	ft	(ft)				
081-1127 389+80	B-1 389+56 5,00ft LI Med CL 588.10												
			0.8	P	18.0								
			3										
			4	0.7	18.0								
			6	B									
			3										
			2	2.3	32.0								
			3	B									
			4										
			2	1.3	32.0								
			4	P									
			3										
			3	1.7	26.0								
			5	B									
			1										
			2	1.2	25.0								
			3	B									
			2	1.6	43.0								
			4	S									
			2										
			3										
			7										
			15										

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer).
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)
BBS, from 137 (Rev. 8-99)



Illinois Department of Transportation
Division of Highways
Illinois Department of Transportation/D-2

SOIL BORING LOG

Page 1 of 1

Date 6/7/11

ROUTE FAP 595 DESCRIPTION 081-1127 D92-004-06 John Deere Road box culvert, 6' x 3', 600' E. of 70th Street LOGGED BY W. Garza
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COUNTY Rock Island DRILLING METHOD Hollow Stem Auger HAMMER TYPE CME-45 Automatic

STRUCT. NO. Station	BORING NO. Station Offset Ground Surface Elev.	D E P T H ft	B L O W S Qu	U C S T	M O I S T ure (%)	Surface Water Elev.		Stream Bed Elev.		D E P T H ft	B L O W S Qu	U C S T	M O I S T ure (%)
						ft	(ft)	ft	(ft)				
081-1127 389+80	B-2 390+02 79,00ft RI Med CL 586.10												
			1.0	P	15.0								
			4										
			7	2.1									
			12	P									
			8										
			17	1.8	18.0								
			13	S									
			4										
			3	1.5	33.0								
			6	P									
			2										
			3	1.6	23.0								
			5	B									
			4										
			3	1.7	43.0								
			5	S									
			3										
			4	1.4	28.0								
			4	S									
			5										
			8										
			15										
			20										

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer).
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BBS, from 137 (Rev. 8-99)



Illinois Department of Transportation
Division of Highways
Illinois Department of Transportation/D-2

SOIL BORING LOG

Page 1 of 1

Date 6/7/11

ROUTE FAP 595 DESCRIPTION 081-1127 D92-004-06 John Deere Road box culvert, 6' x 3', 600' E. of 70th Street LOGGED BY W. Garza
SECTION (142-1, 142) R LOCATION S. Moline Twp. - 10SW, SEC., TWP. 17N, RNG. 1W
COUNTY Rock Island DRILLING METHOD Hollow Stem Auger HAMMER TYPE CME-45 Automatic

STRUCT. NO. Station	BORING NO. Station Offset Ground Surface Elev.	D E P T H ft	B L O W S Qu	U C S T	M O I S T ure (%)	Surface Water Elev.		Stream Bed Elev.		D E P T H ft	B L O W S Qu	U C S T	M O I S T ure (%)
						ft	(ft)	ft	(ft)				
081-1127 389+80	B-3 389+91 61,00ft LI Med CL 588.80												
			0.5	P	13.0								
			3										
			3	1.4	21.0								
			5	P									
			3										
			3	0.8	26.0								
			3	P									
			2										
			3	0.8	25.0								
			4	B									
			3										
			3	1.9	23.0								
			4	B									
			0										
			1	0.3	28.0								
			3	P									
			1	0.8	28.0								
			3	B									
			1										
			4	22.0	17.0								
			10	S									
			23										

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer).
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)
BBS, from 137 (Rev. 8-99)



USER NAME =	DESIGNED JJA	REVISED
FILE NAME =	CHECKED TBP	REVISED
PLOT SCALE =	DRAWN JJA	REVISED
PLOT DATE =	CHECKED TBP	REVISED

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

BORING LOGS S.N. 081-1127

SHEET NO. SG-5 OF SG-5 SHEETS

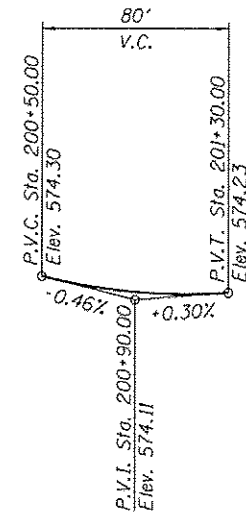
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
595	(142-1, 142)R	ROCK ISLAND	1353	992
CONTRACT NO. 64B83				

ILLINOIS FED. AID PROJECT

Benchmark: Iron Pin, Sta. 313+85.66, @ John Deere Road, 5.73' Rt. Elev. 582.94

Existing Structure: Built as a double 8'x5' Reinforced Concrete Box Culvert with a 59'-0" out to out length. Existing structure to be extended at both ends, with new roadway. Traffic to be maintained utilizing stage construction.

Salvage: No Salvage



INDEX OF SHEETS:

- SH-1 General Plan
- SH-2 General Notes and Total Bill of Material
- SH-3 Details
- SH-4 Soil Borings

APPROVED
For Structural Adequacy Only
Joseph J. Hosanna Jr.
Engineer of Bridges & Structures

PROFILE GRADE
(Along @ Roadway)

WATERWAY INFORMATION

Drainage Area = 482 Acres

Flood	Freq. Yr.	C.F.S.	Opening Sq. Ft.		Nat. H.W.E.	Head - Ft.		Headwater El.	
			Exist.	Prop.		Exist.	Prop.	Exist.	Prop.
Base	10	378	80	80	**	**	**	571.45	571.23
Design	50	715	80	80	**	**	**	574.11	573.86
Overtopping (Existing)	50+	801	80	80	**	**	**	574.94	--
Overtopping (Proposed)	67	788	80	80	**	**	**	--	574.56
Max. Calc.	100	916	80	80	**	**	**	575.10	574.99

Existing Low Grade Elev. 574.94 ft. @ Sta. 644+42
Proposed Low-Grade Elev. 574.56 ft. @ Sta. 200+88

** All references to NHWE have been removed since the basin consists of man made channels.

DESIGN SCOUR ELEVATION TABLE

Design Scour Elevation (ft.)	Upstream	Downstream
		563.76

DESIGN SPECIFICATIONS

2002 AASHTO Standard Specifications for Highway Bridges

DESIGN STRESSES

FIELD UNITS (NEW CONST.)

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

EXISTING CONSTRUCTION

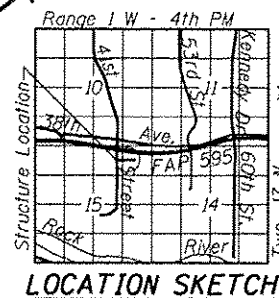
Existing plans not available.

LOADING HS 20-44 (NEW CONST.)

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

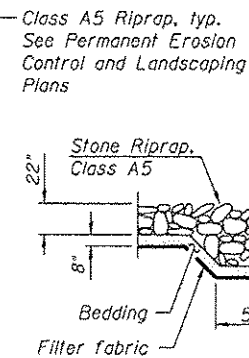
GENERAL PLAN & ELEVATION

**44TH AVENUE OVER
UNNAMED TRIBUTARY TO ROCK RIVER
F.A.P. RTE. 595 - SECTION (142-1, 142)R
ROCK ISLAND COUNTY
STATION 200+88.31
S.N. 081-POOI**



Joseph J. Hosanna Jr.
STATE OF ILLINOIS
JOSEPH J. HOSANNA JR.
081-004654
STRUCTURAL ENGINEER
DATE: 3/17/2015
SEAL EXPIRES: 11/30/2016

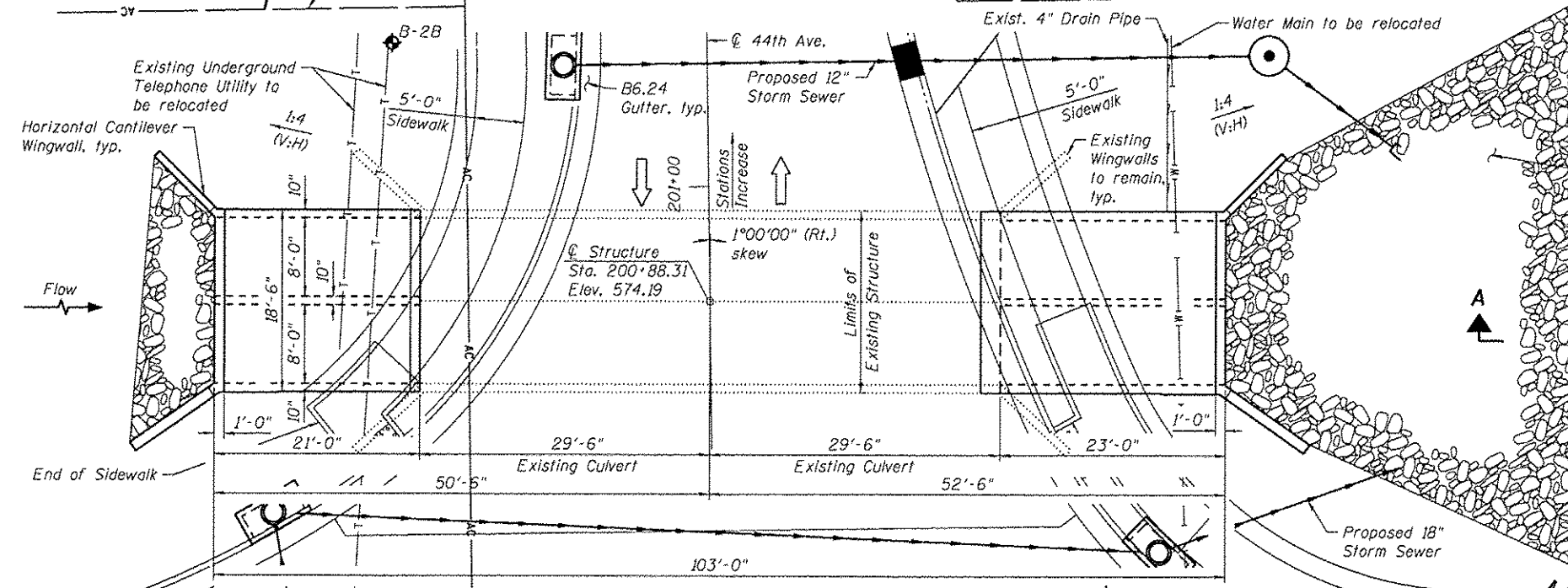
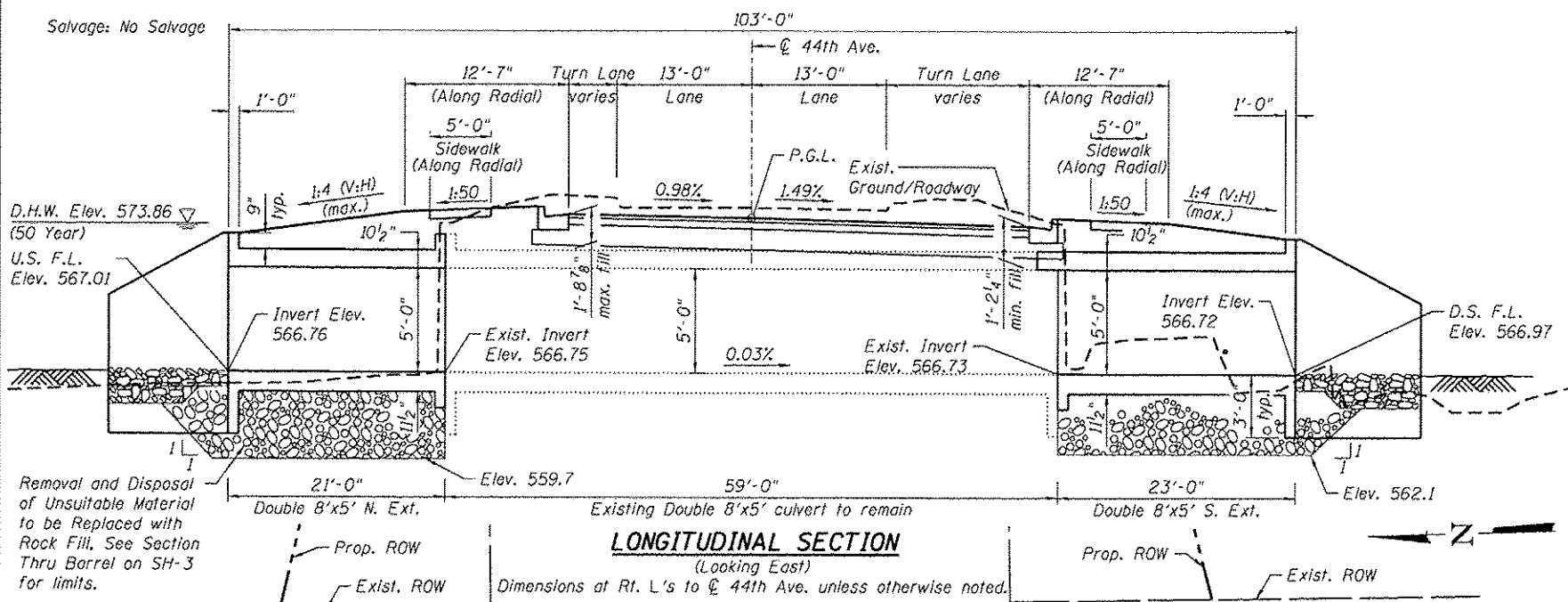
SECTION A-A



PROFILE GRADE
(Along @ Roadway)

LONGITUDINAL SECTION
(Looking East)

Dimensions at Rt. L's to @ 44th Ave. unless otherwise noted.



PLAN

LEGEND:

- T — Exist. Underground Telephone Line
- W — Exist. Water Main
- S — Prop. Storm Sewer
- AC — Exist. Access Control and Exist. ROW
- - - Prop. ROW
- ◆ Boring Location

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

Clarke Group, Inc.
CONSULTING ENGINEERS
1421 West Lincoln Road
Rock Island, Illinois 61201
Tel: 309.399.2000
Fax: 309.399.2001
www.clarkegroup.com

USER NAME	DESIGNED	REVISIONS
sellgood	APD	-
	BWS	-
	RD	-
	APD	-

CHECKED	REVISIONS
BWS	-
RD	-
APD	-

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
595	(142-1, 142)R	ROCK ISLAND	1353	993

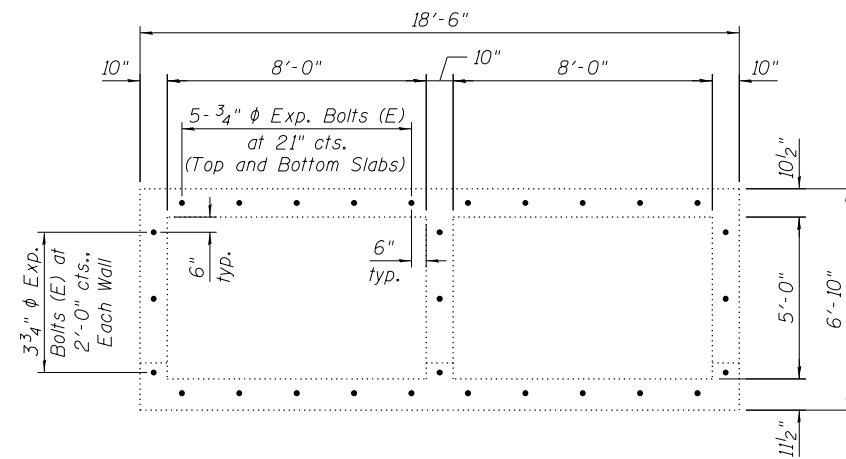
CONTRACT NO.	ILLINOIS FED. AID PROJECT
64883	

SHEET NO. SH-1 OF SH-4 SHEETS

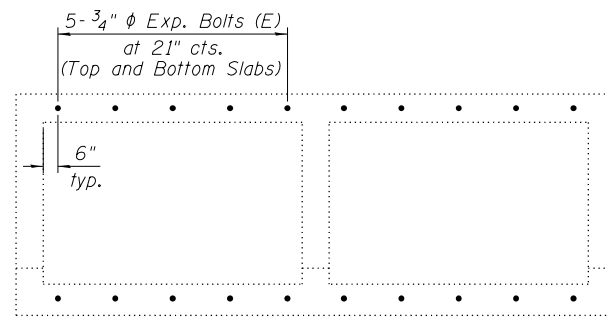
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GENERAL NOTES:

1. Reinforcement bars designated (E) shall be epoxy coated.
2. Plan dimensions and details relative to existing plans are subject to nominal construction variations. The Contractor shall field verify existing dimensions and details affecting new construction and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall not be cause for additional compensation for a change in scope of the work, however, the Contractor will be paid for the quantity actually furnished at the unit price bid for the work.
3. Precast alternate is not allowed.

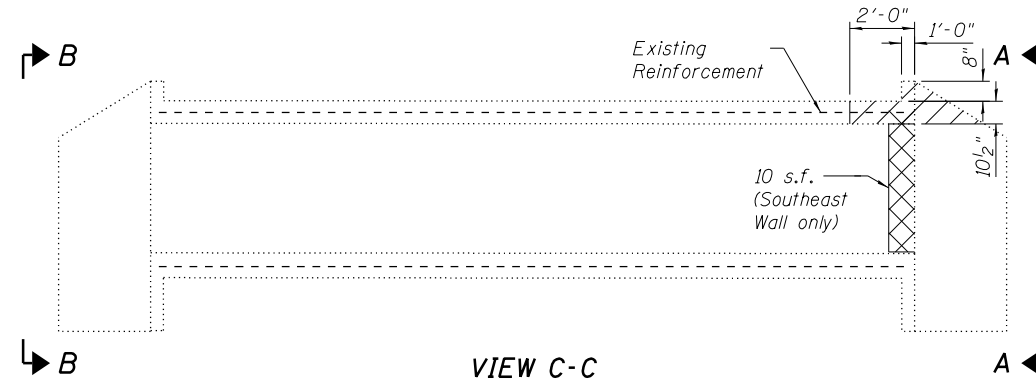


VIEW A-A



VIEW B-B

Note: Expansion Bolts shall be 3/4" hooked bolts. Hooked Bolts shall extend a minimum of 9" into new concrete.



VIEW C-C
(Looking East)

Existing Reinforcement shall be cleaned and incorporated into the new construction. Cost included with Concrete Removal.



EXISTING PLAN

LEGEND:

- Concrete Removal
- Structural Repair of Concrete (Depth Equal to or Less than 5")

TOTAL BILL OF MATERIAL

ITEM	UNIT	TOTAL
Concrete Removal	Cu Yd	1.8
Removal And Disposal Of Unsuitable Material For Structures	Cu Yd	250
Reinforcement Bars, Epoxy Coated	Pound	17,690
Expansion Bolts 3/4 Inch	Each	49
Concrete Box Culverts	Cu Yd	92.2
Structural Repair Of Concrete (Depth Equal To Or Less Than 5 Inches)	Sq Ft	10
Rock Fill	Ton	463

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USER NAME = sailgood	DESIGNED - APD	REVISED -
	CHECKED - BWS	REVISED -
PLOT SCALE = 0/2" = 1'-0"	DRAWN - RD	REVISED -
PLOT DATE = 3/17/2015	CHECKED - APD	REVISED -

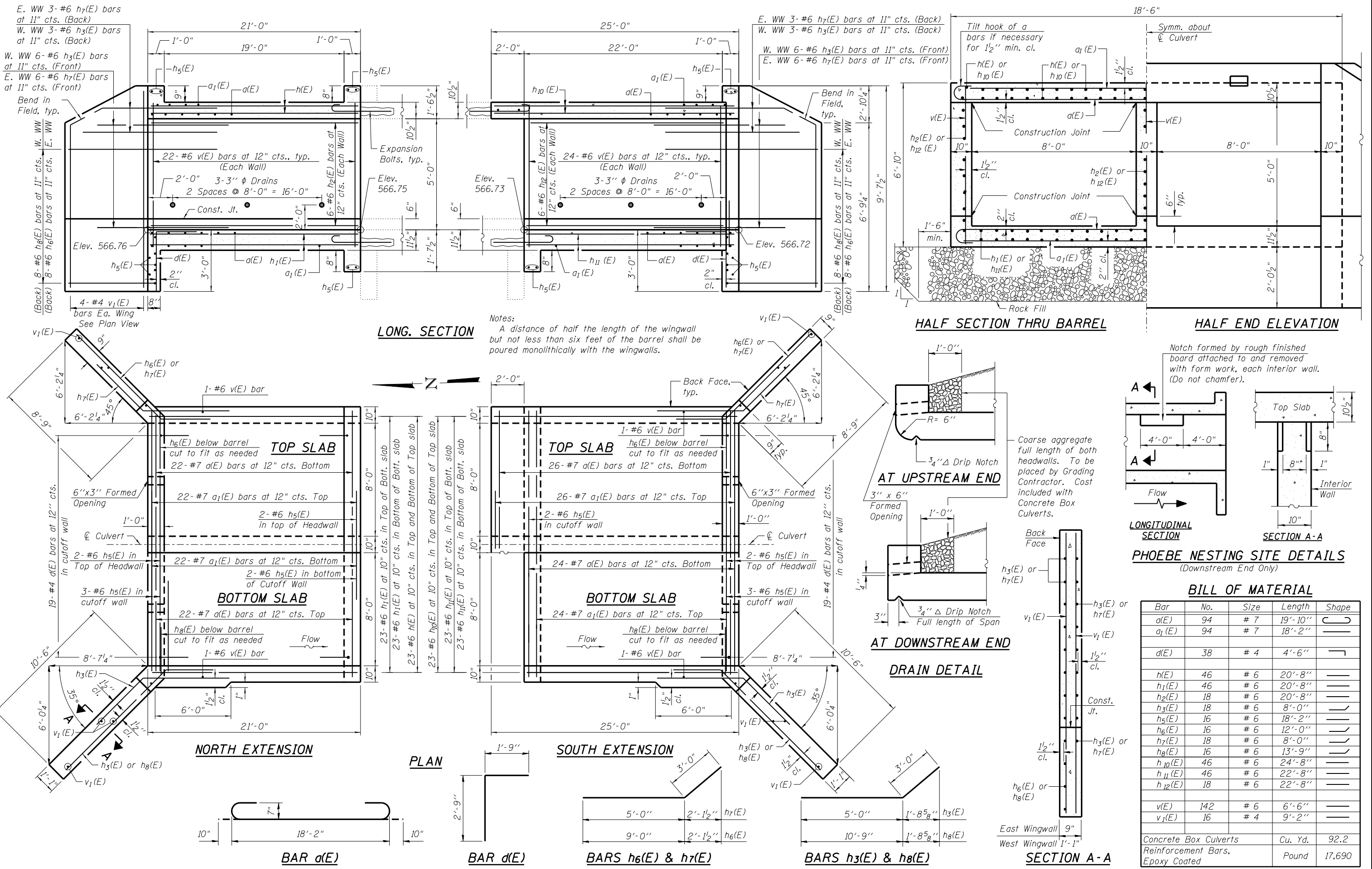
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL NOTES & TOTAL BILL OF MATERIAL
S.N. 081-P001

SHEET NO. SH-2 OF SH-4 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
595	(142-1, 142)R	ROCK ISLAND	1353	994
CONTRACT NO. 64883			ILLINOIS FED. AID PROJECT	

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Notes:
 A distance of half the length of the wingwall but not less than six feet of the barrel shall be poured monolithically with the wingwalls.

Notch formed by rough finished board attached to and removed with form work, each interior wall. (Do not chamfer).

Coarse aggregate full length of both headwalls. To be placed by Grading Contractor. Cost included with Concrete Box Culverts.

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a(E)	94	# 7	19'-10"	U
a ₁ (E)	94	# 7	18'-2"	—
d(E)	38	# 4	4'-6"	L
h(E)	46	# 6	20'-8"	—
h ₁ (E)	46	# 6	20'-8"	—
h ₂ (E)	18	# 6	20'-8"	—
h ₃ (E)	18	# 6	8'-0"	—
h ₅ (E)	16	# 6	18'-2"	—
h ₆ (E)	16	# 6	12'-0"	—
h ₇ (E)	18	# 6	8'-0"	—
h ₈ (E)	16	# 6	13'-9"	—
h ₁₀ (E)	46	# 6	24'-8"	—
h ₁₁ (E)	46	# 6	22'-8"	—
h ₁₂ (E)	18	# 6	22'-8"	—
v(E)	142	# 6	6'-6"	—
v ₁ (E)	16	# 4	9'-2"	—
Concrete Box Culverts				Cu. Yd.
Reinforcement Bars, Epoxy Coated				Pound
				17,690

USER NAME = sailgood	DESIGNED - APD	REVISED -
CHECKED - BWS	REVISED -	
PLOT SCALE = @ 1/2" = 1'	DRAWN - RD	REVISED -
PLOT DATE = 3/17/2015	CHECKED - APD	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**DETAILS
 S.N. 081-P001**
 SHEET NO. SH-3 OF SH-4 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
595	(142-1, 142R)	ROCK ISLAND	1353	995
CONTRACT NO. 64883			ILLINOIS FED. AID PROJECT	





Illinois Department of Transportation
Division of Highways
Illinois Department of Transportation D-2

SOIL BORING LOG

ROUTE FAP 595 DESCRIPTION D92-004-06 Box Culvert, double 8' x 5', 44th Avenue, 100' E. of 41st Street, 500' S. of John Deere Road LOGGED BY W. Garza
SECTION 142-R LOCATION S. Moline Twp. - 15NE. SEC., TWP. 17N, RNG. 1W
COUNTY Rock Island DRILLING METHOD Hollow Stem Auger HAMMER TYPE CME-45 Automatic

STRUCT. NO.	Station	DEPTH (ft)	SOIL TYPE	UCS (tsf)	MOISTURE (%)	Surface Water Elev. (ft)	Stream Bed Elev. (ft)	Groundwater Elev. (ft)	First Encounter (ft)	Upon Completion (ft)	After (Hrs.)
	200+89						92.00				
BORING NO.	B-1b										
	200+58							553.6	553.6		
	40.00R RL CL										
	568.10										
MEDIUM brown SILTY CLAY LOAM				0.5	17.0						
				P							
MEDIUM light gray SILTY LOAM				0.5	27.0						
				P							
MEDIUM dark gray SILTY CLAY LOAM				0.5	33.0						
				B							
MEDIUM gray CLAY LOAM				0.9	27.0						
				B							
MEDIUM gray CLAY LOAM				0.9	35.0						
				B							
MEDIUM gray LOAM with 14% ORGANICS				0.7	56.0						
				B							
VERY DENSE light gray SANDSTONE				100/6"							
End of Boring											

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)
BBS, from 137 (Rev. 8-99)



Illinois Department of Transportation
Division of Highways
Illinois Department of Transportation D-2

SOIL BORING LOG

ROUTE FAP 595 DESCRIPTION D92-004-06 Box Culvert, double 8' x 5', 44th Avenue, 100' E. of 41st Street, 500' S. of John Deere Road LOGGED BY W. Garza
SECTION 142-R LOCATION S. Moline Twp. - 15NE. SEC., TWP. 17N, RNG. 1W
COUNTY Rock Island DRILLING METHOD Hollow Stem Auger HAMMER TYPE CME-45 Automatic

STRUCT. NO.	Station	DEPTH (ft)	SOIL TYPE	UCS (tsf)	MOISTURE (%)	Surface Water Elev. (ft)	Stream Bed Elev. (ft)	Groundwater Elev. (ft)	First Encounter (ft)	Upon Completion (ft)	After (Hrs.)
	200-89						92.00				
BORING NO.	B-2b										
	201+15							552.4	552.4		
	32.00R LI CL										
	569.40										
DRY brown SILTY CLAY LOAM											
STIFF light brown SILTY CLAY LOAM				1.1	23.0						
				P							
SOFT dark gray SILTY LOAM				0.4	32.0						
				B							
SOFT gray LOAM				0.5	28.0						
				B							
SOFT light gray SANDY LOAM				0.3	22.0						
				P							
MEDIUM gray CLAY LOAM with 11% ORGANICS				0.6	44.0						
				B							
MEDIUM gray SILTY LOAM with 10% ORGANICS				0.6	58.0						
				B							
MEDIUM tan/gray SAND											

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)
BBS, from 137 (Rev. 8-99)

N:\PROJ\0003393\00\CONTRACT_2\Design\Structural\CAD\Culvert_Extension_44th_Ave_081-P001-081-P001-64883-004_Soil_Borings.dgn



USER NAME = sailgood	DESIGNED - APD	REVISED -
PLOT SCALE = 0.2" = 1'-0"	CHECKED - BWS	REVISED -
PLOT DATE = 3/17/2015	DRAWN - RD	REVISED -
	CHECKED - APD	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**SOIL BORINGS
S.N. 081-P001**
SHEET NO. SH-4 OF SH-4 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
595	(142-1, 142)R	ROCK ISLAND	1353	996
CONTRACT NO. 64883				
ILLINOIS FED. AID PROJECT				

Benchmark: Traffic Signal Foundation, John Deere Road Sta. 334+45.00, 63.99' Lt. Elev. 590.71

Existing Structure: Existing 5'x4' Reinforced Concrete Box Culvert with 56' out to out length at Sta. 82+05.
Existing structure to be removed and replaced.
Road will be closed to traffic.

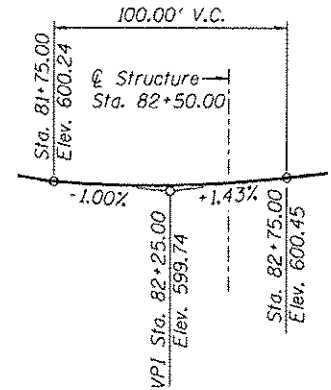
Salvage: No Salvage

INDEX OF SHEETS:

- SI-1 General Plan
- SI-2 Details
- SI-3 Boring Logs

CURVE DATA

$\Delta = 20^{\circ}57'48''$ (RT)
 $D = 2^{\circ}59'59''$
 $T = 353.38'$
 $L = 698.85'$
 $E = 32.41'$
 $R = 1,910.08'$
 $P.C. = \text{Sta. } 76+82.53$
 $P.T. = \text{Sta. } 83+81.38$
 $P.I. = \text{Sta. } 80+35.90$



PROFILE GRADE
(Along \bar{C} Coaltown Road)

DESIGN STRESSES

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

Boring located off drawing at F.A.P. 595 Sta. 357+56.00, 82' Lt

LEGEND:

- CTV — Exist. Underground Cable TV.
- FO — Exist. Underground Fiber Optic
- T — Exist. Underground Telephone
- G — Exist. Underground Gas Line
- S — Exist. Sanitary Sewer
- A — Exist. Access Control and Exist. ROW
- ◆ Boring Location

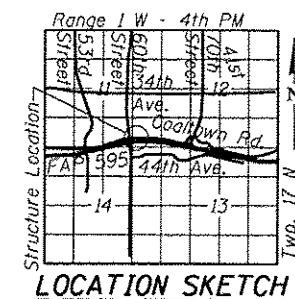
GENERAL NOTES:

1. Reinforcement bars designated (E) shall be epoxy coated.
2. Removal of existing structures to be shown on Removal Plans.

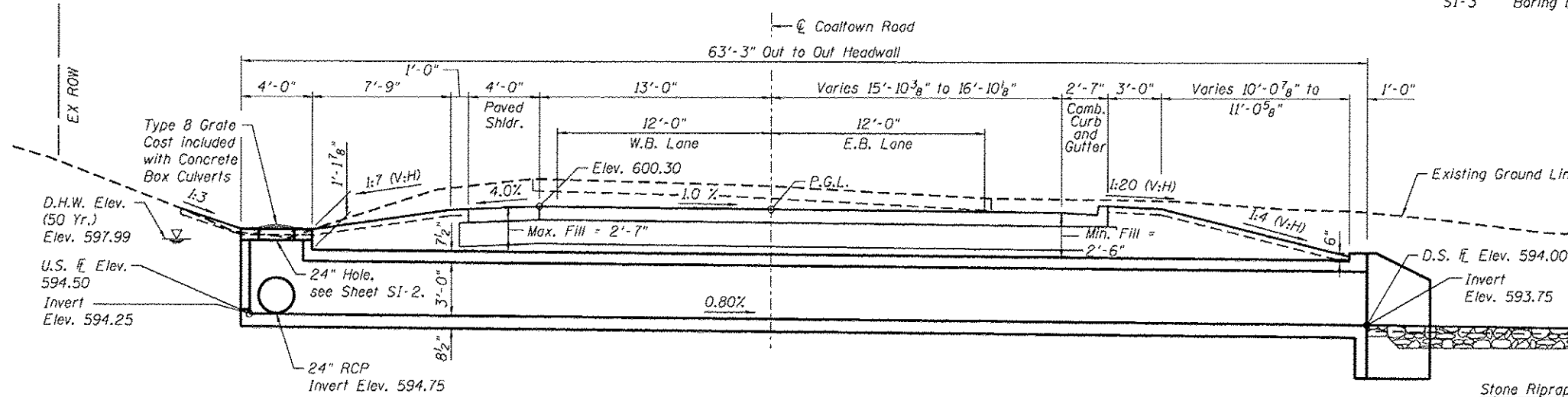
TOTAL BILL OF MATERIAL

ITEM	UNIT	TOTAL
Reinforcement Bars, Epoxy Coated	Pound	5,820
Concrete Box Culverts	Cu Yd	28.5

Class A5 Riprap.
See Permanent Erosion Control and Landscaping Plans

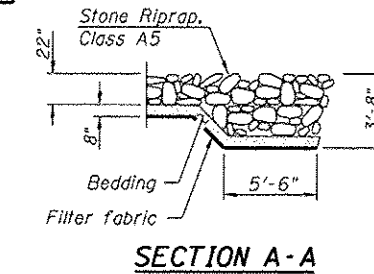


GENERAL PLAN & ELEVATION
COALTOWN ROAD
DRAINAGE DITCH
F.A.P. RTE. 595
SECTION (142-1, 142R)
ROCK ISLAND COUNTY
STATION 82+50.00
S.N. 081-P006

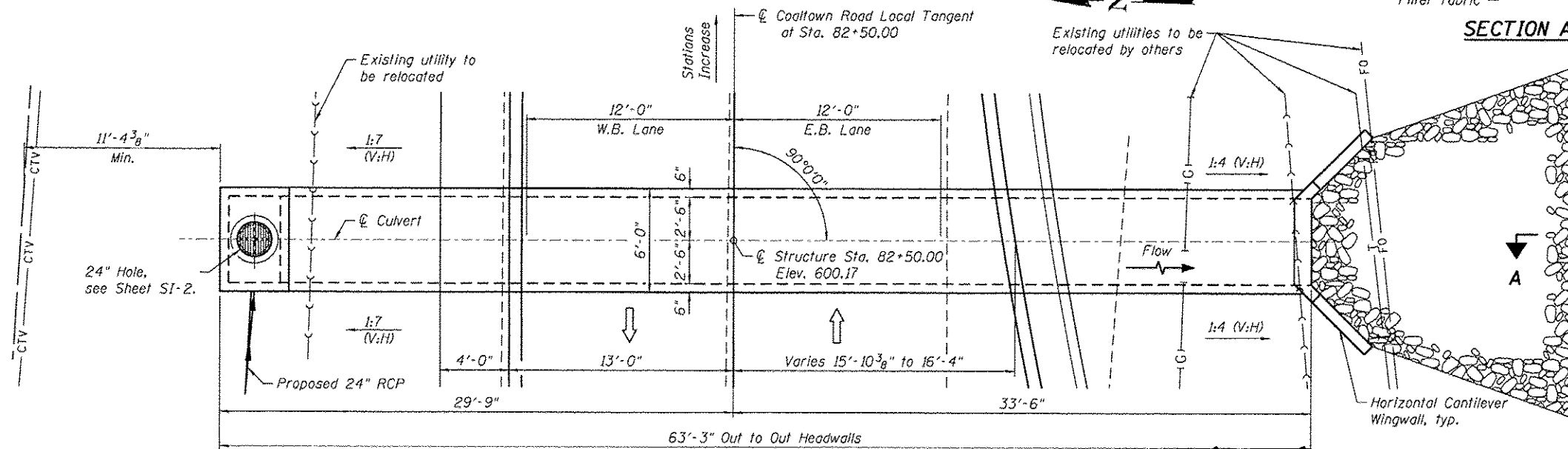


LONGITUDINAL SECTION

(Looking East)
(Dimensions at Rt. L's to local tangent at Sta. 82+50.00 unless otherwise noted.)



SECTION A-A



WATERWAY INFORMATION TABLE

Drainage Area: 40 Acres						
Existing Low Grade Elev. 600.00 ft. @ Sta. 82+10						
Proposed Low Grade Elev. 600.17 ft. @ Sta. 82+25						
Flood	Freq. Yr.	0 C.F.S.	Opening Sq. Ft.		Headwater El.	
			Exist.	Prop.	Exist.	Prop.
Base	10	42	20	5	--	596.44
Design	50	85	20	8	--	597.99
Overlapping (Existing)	--	--	--	--	--	--
Overlapping (Proposed)	100+	114	20	15	--	600.17

PLAN

DESIGN SCOUR ELEVATION TABLE

Design Scour Elevation (ft.)	Upstream	Downstream
	593.54	590.75

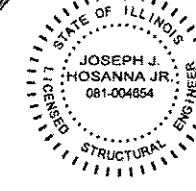
DESIGN SPECIFICATIONS

2012 AASHTO LRFD Bridge Design Specifications with 2013 Interims

LOADING HL-93

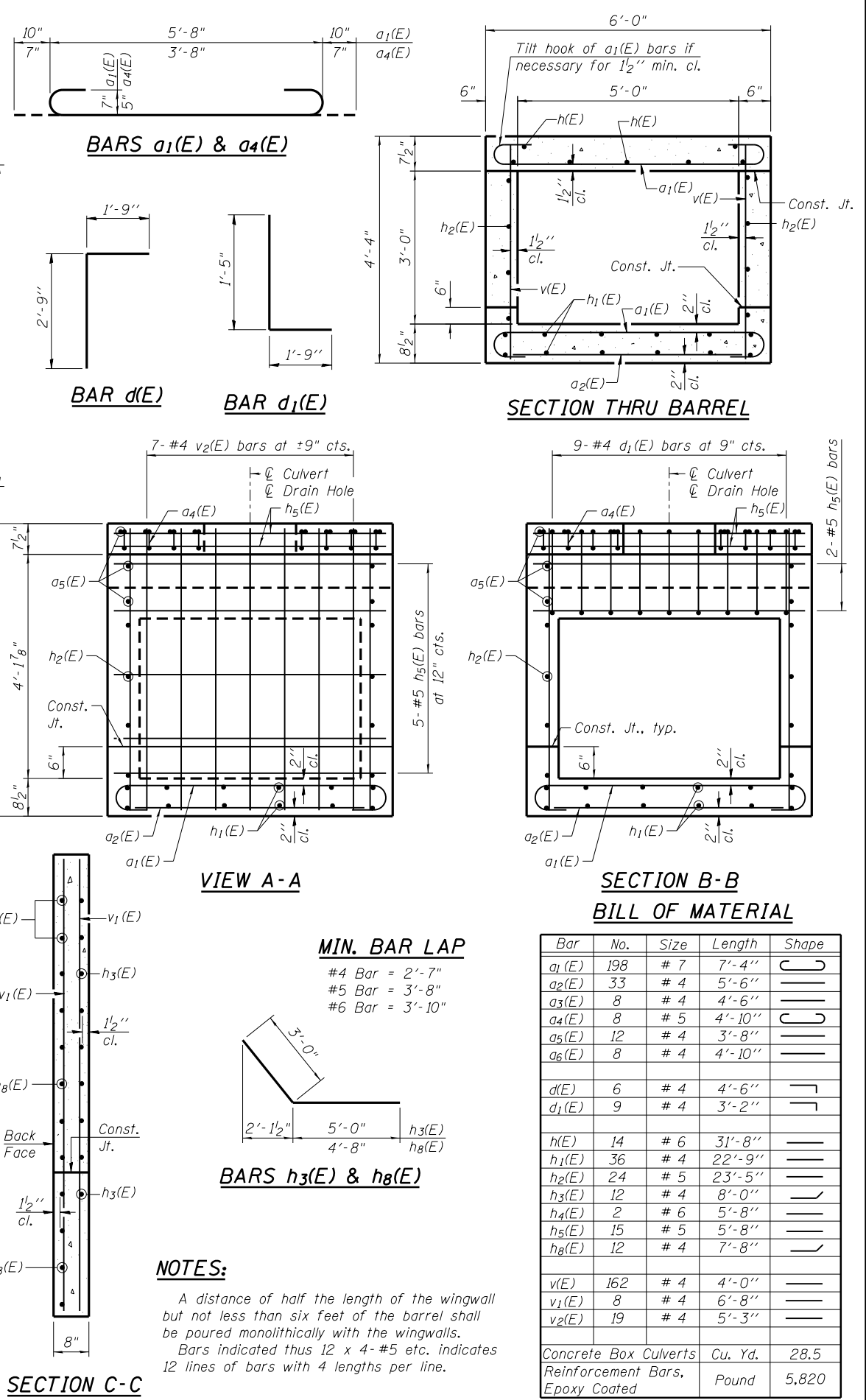
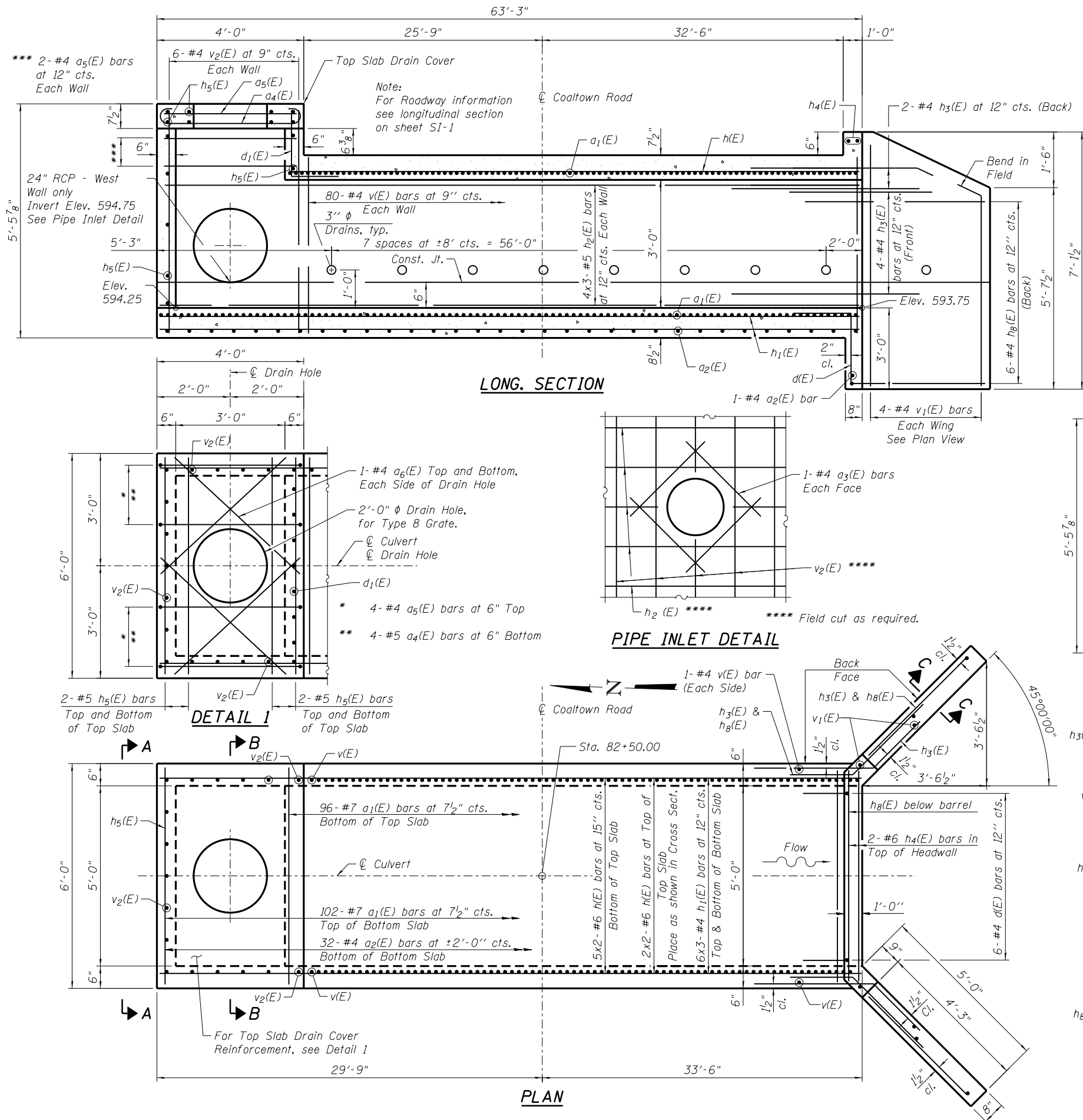
Allow 50#/sq. ft. for future wearing surface.

Joseph J. Hosanna Jr.



DATE: 3/17/2015
SEAL EXPIRES: 11/30/2018

M:\PROJ\2013\393\2013\CONTRACT_2\Design\Structural\CAD\Culvert Sta. 82+50.dwg (08/11/24) (PBI-124, 64883, 820).GPE.dgn



MIN. BAR LAP

#4 Bar = 2'-7"
 #5 Bar = 3'-8"
 #6 Bar = 3'-10"

**SECTION B-B
BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
a1(E)	198	# 7	7'-4"	U
a2(E)	33	# 4	5'-6"	—
a3(E)	8	# 4	4'-6"	—
a4(E)	8	# 5	4'-10"	U
a5(E)	12	# 4	3'-8"	—
a6(E)	8	# 4	4'-10"	—
d(E)	6	# 4	4'-6"	—
d1(E)	9	# 4	3'-2"	—
h(E)	14	# 6	3'-8"	—
h1(E)	36	# 4	22'-9"	—
h2(E)	24	# 5	23'-5"	—
h3(E)	12	# 4	8'-0"	—
h4(E)	2	# 6	5'-8"	—
h5(E)	15	# 5	5'-8"	—
h8(E)	12	# 4	7'-8"	—
v(E)	162	# 4	4'-0"	—
v1(E)	8	# 4	6'-8"	—
v2(E)	19	# 4	5'-3"	—
Concrete Box Culverts			Cu. Yd.	28.5
Reinforcement Bars, Epoxy Coated			Pound	5,820

NOTES:
 A distance of half the length of the wingwall but not less than six feet of the barrel shall be poured monolithically with the wingwalls.
 Bars indicated thus 12 x 4-#5 etc. indicates 12 lines of bars with 4 lengths per line.

N:\PROJECTS\030333\CONTRACT_2\Design\Structural\CAD\Culvert_Sta. 82+50 (081-11241)081-1124-64883_002_Details-1.dgn
 08/11/2015 10:58:11 AM
 User: saillgood



USER NAME = saillgood	DESIGNED BWS	REVISED -
PLOT SCALE = 0.166667' / 1"	CHECKED APD	REVISED -
PLOT DATE = 3/17/2015	DRAWN RD	REVISED -
	CHECKED APD	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**DETAILS
S.N. 081-P006**


F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
595	(142-1, 142)R	ROCK ISLAND	1353	998
CONTRACT NO. 64883				

SHEET NO. SI-2 OF SI-3 SHEETS

ILLINOIS FED. AID PROJECT

N:\PROJ\000333\CONTRACT_2\Design\Structural\CAD\Culvert_S1a_82+50_081-1124\081-1124-64883_003_Boring_Log.dgn

Soils Report



Illinois Department of Transportation
Division of Highways
Illinois Department of Transportation-4

38th Avenue
S.N. N/A

Page 1 of 1

Date 6/29/11

SOIL BORING LOG

081-1124 D62-004-06 John Deere Road
proposed culvert, 42" RCP, 150' E. of 60th Street

LOGGED BY W. Garcia

ROUTE FAP 595 DESCRIPTION 081-1124 D62-004-06 John Deere Road proposed culvert, 42" RCP, 150' E. of 60th Street

SECTION (142-1, 142) R LOCATION S. Main Twp. - 10SW, SEC. 1, TWP. 17N, RNG. 1W

COUNTY Rock Island DRILLING METHOD Hollow Stem Auger HAMMER TYPE CMR-45 Automatic

STRUCT. NO. Station	BORING NO. Station	Offset	Ground Surface Elev.	D (ft)	B (6")	U (in)	M (%)	Surface Water Elev.		D E L C O		B L C O		U C I S		M O S T					
								ft	ft	P	T	H	S	Q _a	T						
081-1124 387+40	B-3 387+56	81.00R Ls Mod CL	596.00																		
								Groundwater Elev.:													
								First Encounter	588.0	ft	▼										
								Upon Completion													
								After													
								End of Boring													
STIFF brown SILTY CLAY LOAM																					
MEDIUM light brown SILTY CLAY LOAM																					
VERY SOFT tan SILTY LOAM																					
VERY SOFT tan SILTY LOAM																					
MEDIUM tan SILTY CLAY LOAM with SAND lens																					
LOOSE tan fine SAND																					
MEDIUM tan dirty SANDY GRAVEL with SHALE																					
DENSE gray SHALE																					
Hard Drilling																					
VERY DENSE gray SHALE																					

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Blgs, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

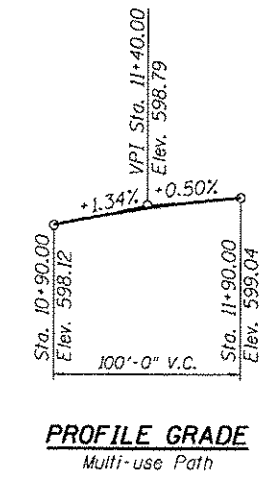
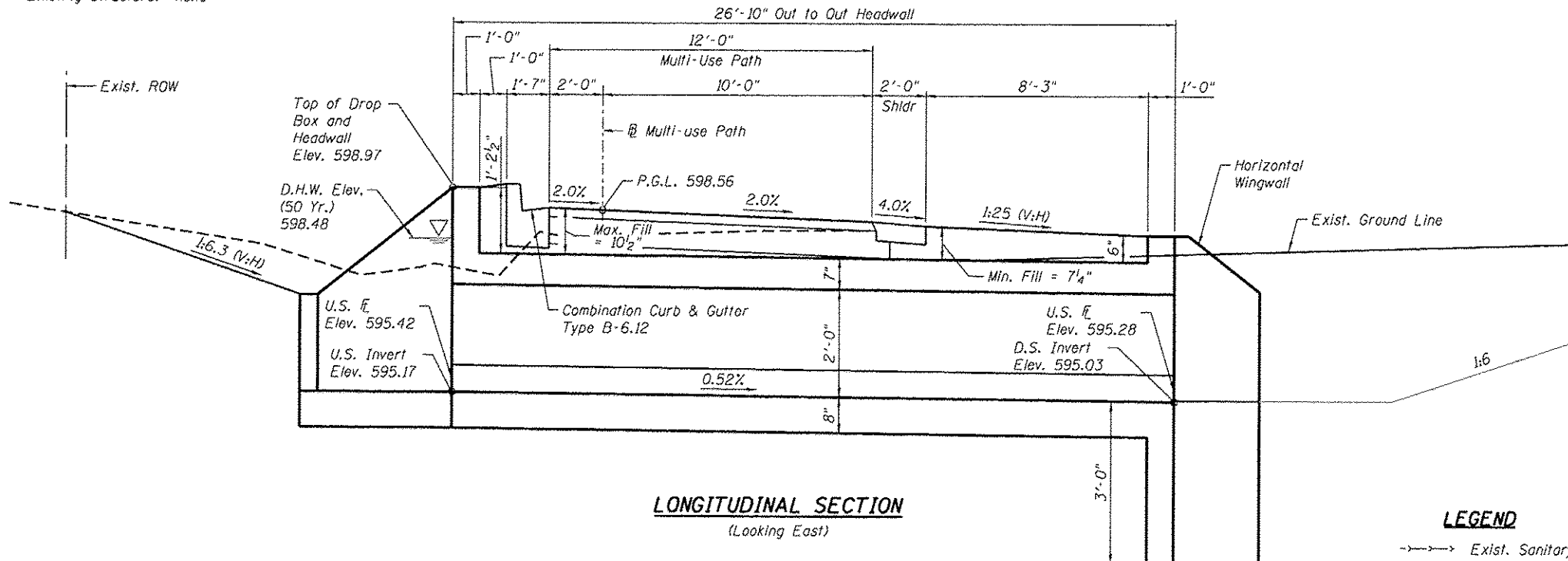
BBS, from 187 (Rev. 8-99)

Lin Engineering, Ltd.

Page 3 of 3

Benchmark: "X" cut in NW corner of Traffic Signal Foundation, F.A.P. 595 Sta. 334+45.00, 63.99 L.L., Elev. 590.71.

Existing Structure: None



INDEX OF SHEETS:

- SJ-1 General Plan & Elevation
- SJ-2 Details-1
- SJ-3 Details-2
- SJ-4 Soil Boring Log

DESIGN SPECIFICATIONS
2012 AASHTO LRFD Bridge Design Specifications with 2013 Interims

DESIGN STRESSES

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

LOADING HL-93

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

TOTAL BILL OF MATERIAL

ITEM	UNIT	TOTAL
Reinforcement Bars, Epoxy Coated	Pound	3,070
Concrete Box Culverts	Cu Yd	15.5

WATERWAY INFORMATION

Drainage Area = 18 Acres Proposed Low Grade Elev. 599.04 at Sta. 11+27.00

Flood	Freq. Yr.	Q C.F.S.	Opening Sq. Ft. Exist.	Prop.	Headwater El. Exist.	Prop.
Base	10	35	--	5.2	--	598.16
Design	50	50	--	6.8	--	598.48
Overtopping (Ex)	--	--	--	--	--	--
Overtopping (P)	>100	91	--	10.1	--	599.04
Max. Calc.	100	56	--	7.4	--	598.60

DESIGN SCOUR ELEVATION TABLE

Design Scour Elevation (ft.)	Up Stream	Down Stream
	594.50	592.03

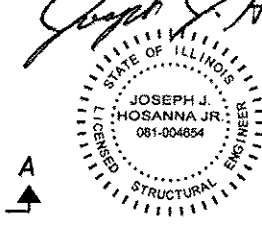
GENERAL NOTES:

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

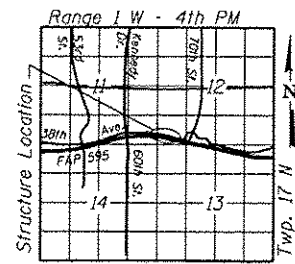
LEGEND

- Existing Sanitary Sewer
- Existing Water Main
- Existing Gas Main
- Existing Aerial Telephone
- Existing Underground Fiber Optic
- Existing ROW
- ◆ Soil Boring Location

Class A5 Riprap. See Permanent Erosion Control and Landscaping Plans.

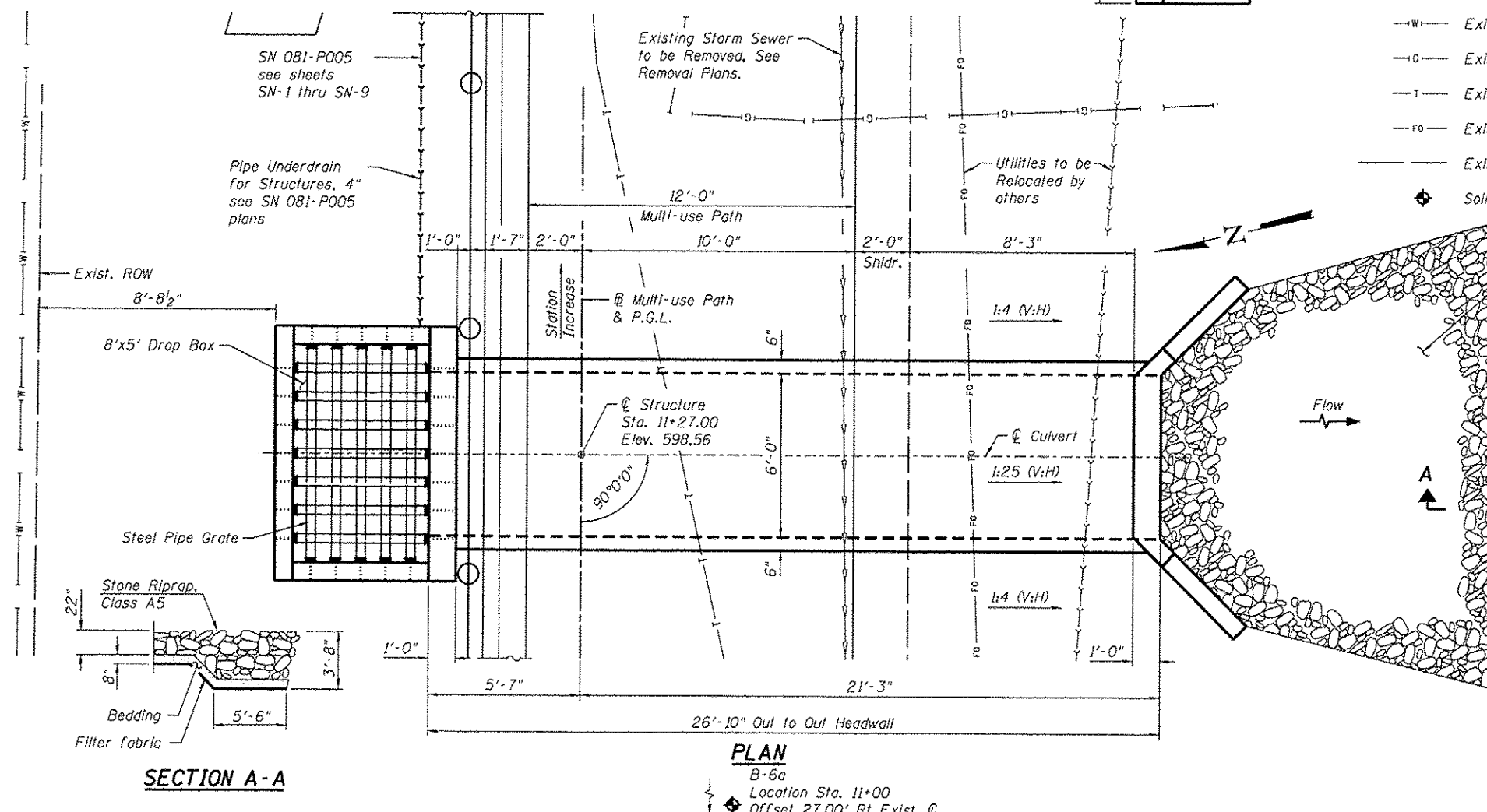


DATE: 3/17/2015
SEAL EXPIRES: 11/30/2018



LOCATION SKETCH

**GENERAL PLAN & ELEVATION
MULTI-USE PATH OVER
DRAINAGE DITCH
F.A.P. RTE. 595
SECTION (142-1, 142)R
ROCK ISLAND COUNTY
STATION 11+27.00
S.N. 081-P007**

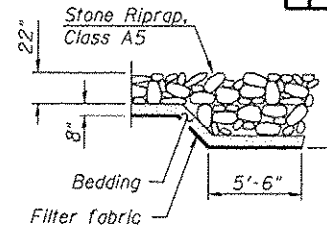


LONGITUDINAL SECTION
(Looking East)

PLAN
B-6a

Location Sta. 11+00
Offset 27.00' Rt. Exist. C.

SECTION A-A



N:\PROJECTS\2013\CONTRACT_2\Design\Structure\CA0\Culvert of Bike Path (081-P007)\B1-P007-B4B83-021_CFE.dgn



USER NAME: kasilgood	DESIGNED: APD	REVISED:
PLOT SCALE: 5/4" = 1' / 1"	CHECKED: BWS	REVISED:
PLOT DATE: 3/17/2015	DRAWN: RD	REVISED:
	CHECKED: JHJ	REVISED:

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SHEET NO. SJ-1 OF SJ-4 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
595	(142-1, 142)R	ROCK ISLAND	1353	1000

CONTRACT NO. 64883
ILLINOIS FED. AID PROJECT