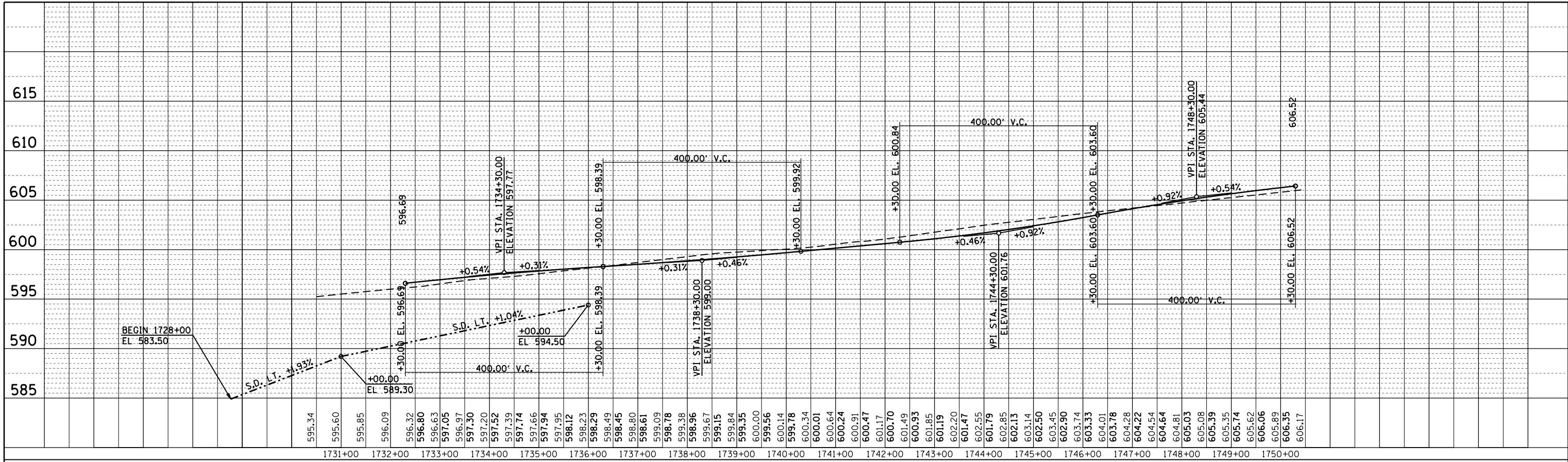


PLAN	SURVEYED	BY	DATE
	PLOTTED		
	ALIGNED		
	CHECKED		
	FILED		
NOTE BOOK NO.	CARD FILE NAME		

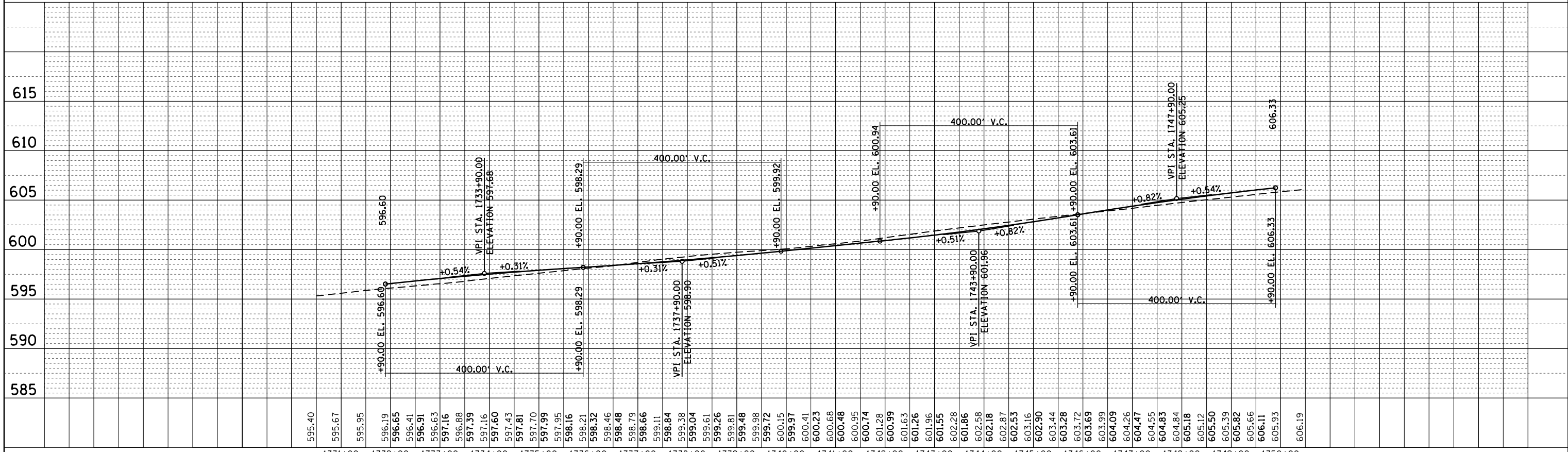


WESTBOUND

BM 403 - CHISELED □ ON N SIDE OF MIDDLE PIER
STA. 1741+17 ELEV. 602.26

EASTBOUND

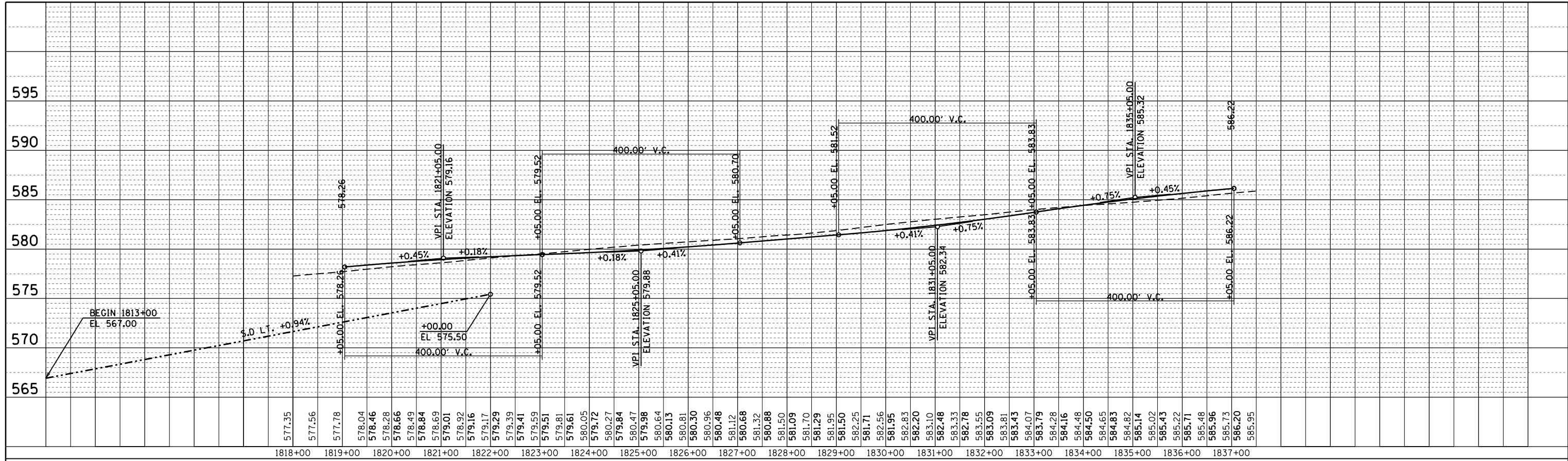
PROFILE	SURVEYED	BY	DATE
	PLOTTED		
	GRADES CHECKED		
	STRUCTURE NOTATIONS CHECKED		
NOTE BOOK NO.	NOTATION CHPKD		



FILE NAME =	USER NAME = steffennk	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION VERTICAL CLEARANCE PROFILES SN 025-0058	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
p:\11\084EBIDINTEG.allinois.gov\PIWIDOT\Documents\DOT Offices\District 7\Projects\74664\DRAWN\CAD\Sheets\0774664-sht-profile.dgn	DRAWN	CHECKED -	REVISED -		70	(25-1,2)R	EFFINGHAM	424	101
Default	PLOT SCALE = 200.0000' / in.	DATE -	REVISED -		CONTRACT NO. 74664				
	PLOT DATE = 8/25/2017	DATE -	REVISED -		ILLINOIS FED. AID PROJECT				

SCALE: SHEET 2 OF 4 SHEETS STA. TO STA.

PLAN	SURVEYED	BY	DATE
	PLOTTED		
	ALIGNED		
	CHECKED		
	NO. _____		
	CARD FILE NAME		



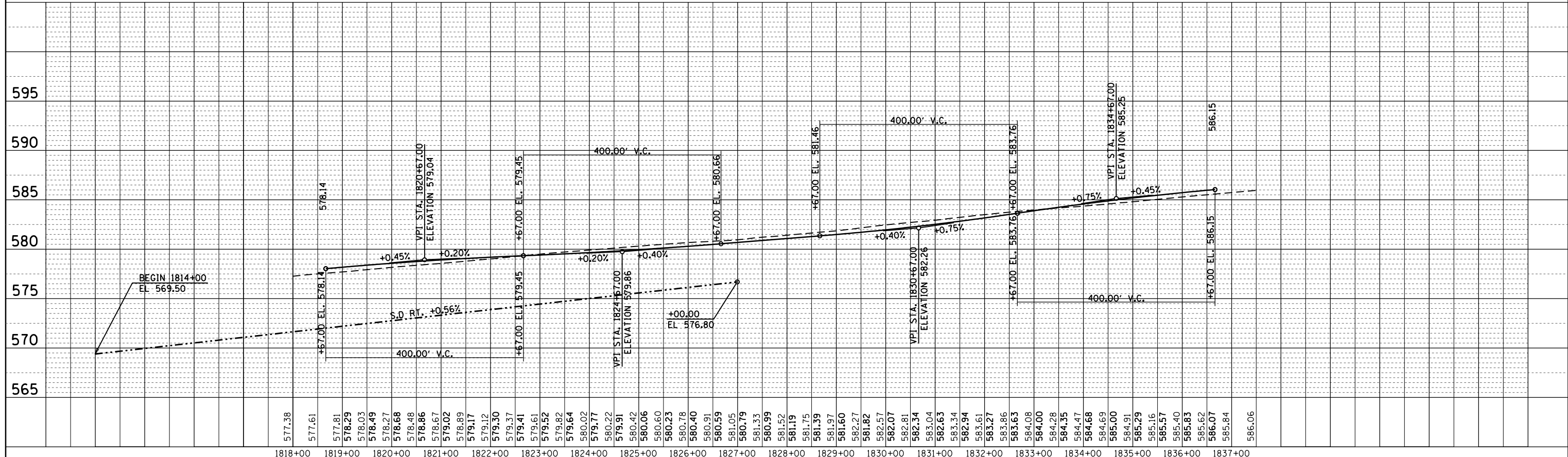
577.35 577.56 577.78 578.04 578.46 578.28 578.66 578.49 578.84 578.69 579.01 578.92 579.16 579.17 579.29 579.39 579.41 579.59 579.51 579.81 579.61 579.72 579.84 580.47 579.98 580.64 580.13 580.81 580.30 580.96 580.48 581.12 580.68 581.32 580.88 581.50 581.09 581.70 581.29 581.95 581.50 582.25 581.71 582.56 581.95 582.83 582.20 583.10 582.48 583.33 582.78 583.55 583.09 583.81 583.43 584.07 583.79 584.28 584.16 584.50 584.65 584.83 584.82 585.14 585.02 585.43 585.22 585.71 585.48 585.96 585.73 586.20 585.95

WESTBOUND

BM 554 - CHISELED □ ON N SIDE OF MIDDLE PIER
STA. 1827+36 ELEV. 582.95

EASTBOUND

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



577.38 577.61 577.81 578.29 578.03 578.49 578.27 578.68 578.48 578.96 578.67 579.02 578.89 579.17 579.12 579.30 579.37 579.41 579.61 579.52 579.82 579.64 580.02 579.77 580.22 579.91 580.42 580.06 580.60 580.23 580.78 580.40 580.91 580.59 581.05 580.79 581.33 580.99 581.52 581.19 581.75 581.39 581.97 581.60 582.27 581.82 582.57 582.07 582.81 582.34 583.04 582.63 583.34 582.94 583.61 583.27 583.96 583.63 584.08 584.00 584.28 584.35 584.47 584.68 584.69 585.00 584.91 585.29 585.16 585.57 585.40 585.83 585.62 586.07 585.84 586.06

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

VERTICAL CLEARANCE PROFILES
SN 025-0059

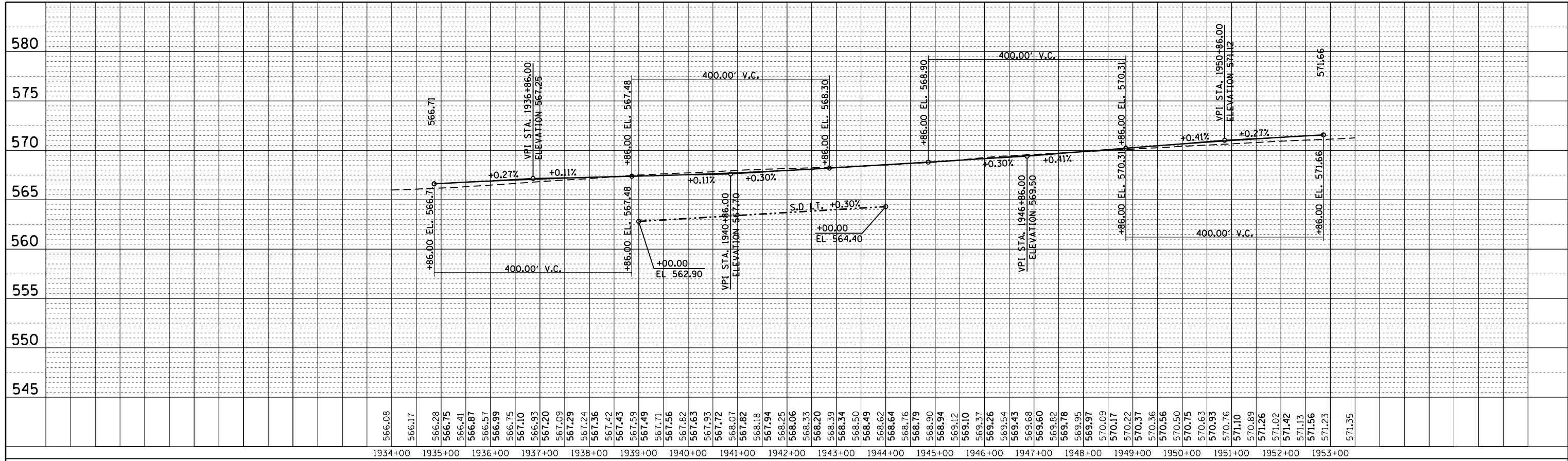
FILE NAME =	USER NAME = steffennk	DESIGNED -	REVISED -
p:\IL084EBIDINTEG.Illinois.gov\PIDOT\Documents\IDOT Offices\District 7\Projects\74664\DRAWN		REVISED -	REVISED -
		CHECKED -	REVISED -
Default	PLOT DATE = 8/25/2017	DATE -	REVISED -

SCALE: SHEET 3 OF 4 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	(25-1,2)R	EFFINGHAM	424	102
CONTRACT NO. 74664			ILLINOIS FED. AID PROJECT	

PLAN	SURVEYED	BY	DATE
	PLOTTED		
	ALIGNED		
	CHECKED		
	NO. _____		
	CARD FILE NAME		

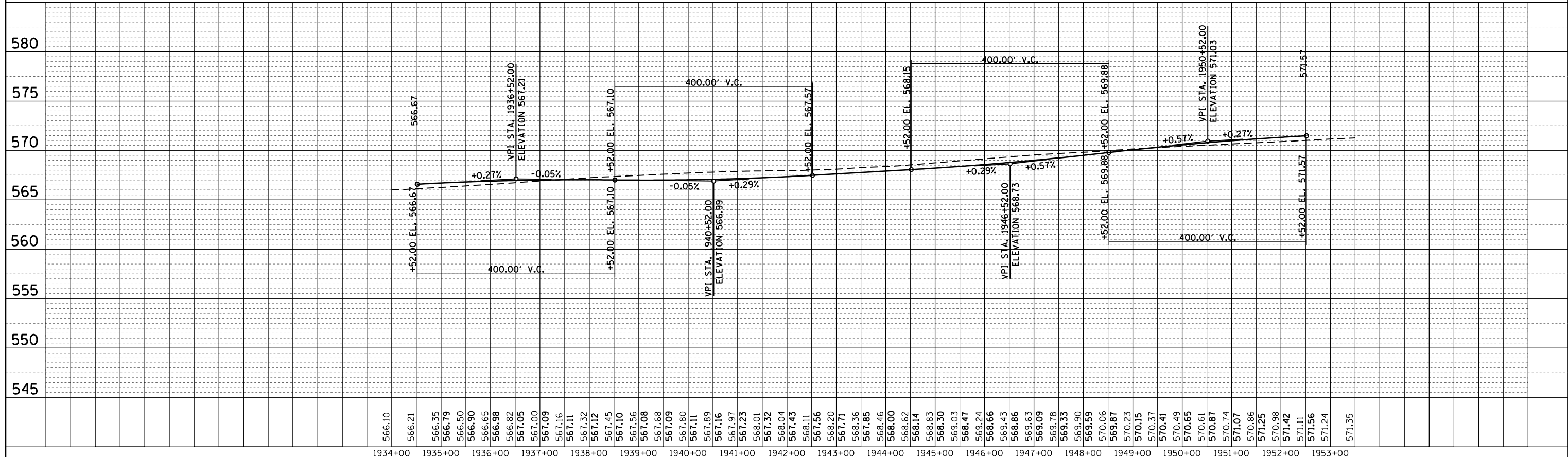
PROFILE	SURVEYED	BY	DATE
	PLOTTED		
	GRADES CHECKED		
	STRUCTURE NOTATIONS CHECKED		
	NO. _____		



WESTBOUND

BM 553 - CHISELED □ ON N SIDE OF MIDDLE PIER
STA. 1943+31 ELEV. 569.74

EASTBOUND

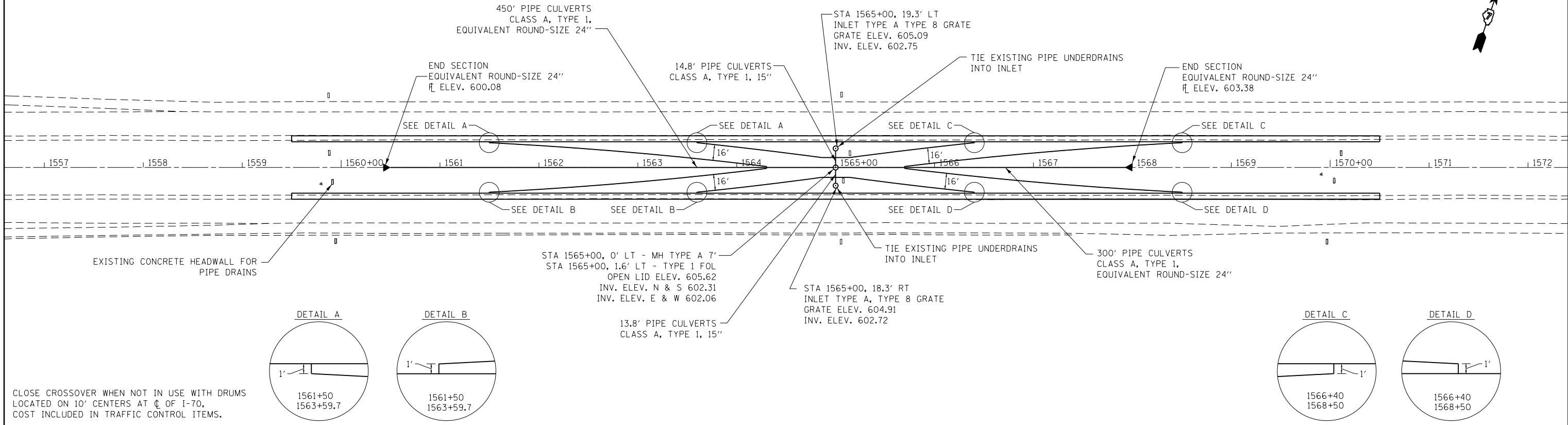


FILE NAME =	USER NAME = steffenk	DESIGNED -	REVISED -	VERTICAL CLEARANCE PROFILES		F.A.I. RE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
p:\IL084EBIDINTEG.allinois.gov\PIDOT\Documents\IDOT Offices\District 7\Projects\74664\DRAWN\CAD\Sheets\0774664-sht-profile.dgn		DRAWN	REVISED	SN 025-0045		70	(25-1,2)R	EFFINGHAM	424	103
Default	PLOT SCALE = 200.0000' / in.	CHECKED -	REVISED -	SCALE: SHEET 4 OF 4 SHEETS STA. TO STA.					CONTRACT NO. 74664	
	PLOT DATE = 8/25/2017	DATE -	REVISED -						ILLINOIS FED. AID PROJECT	

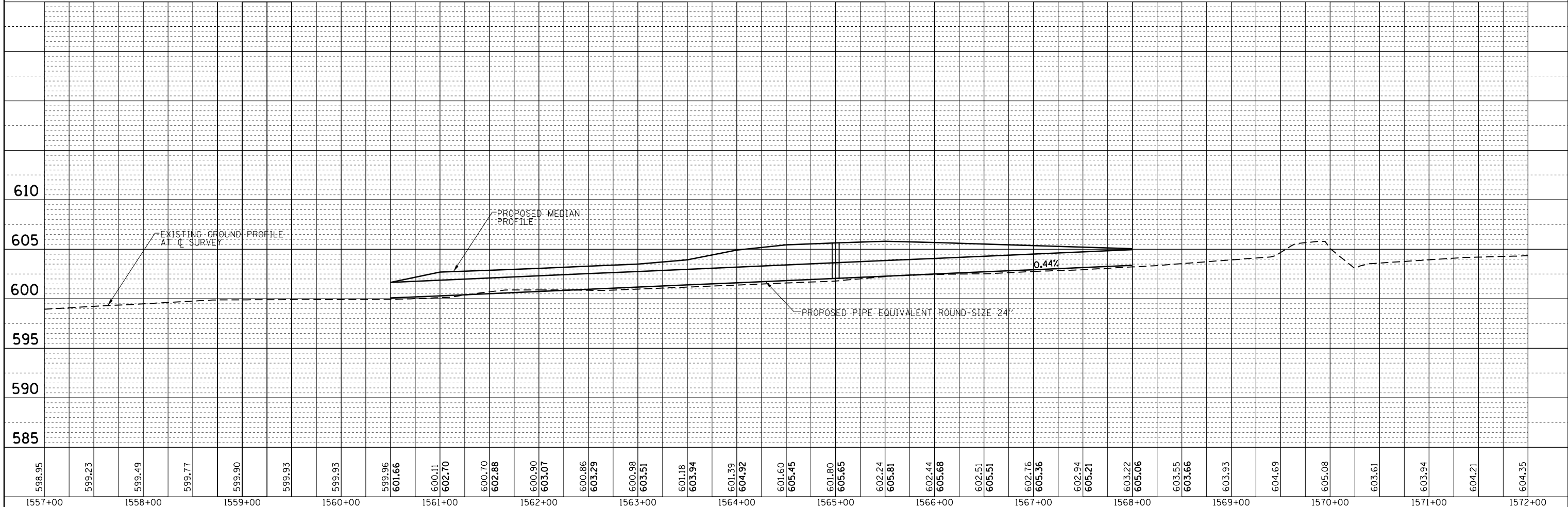
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



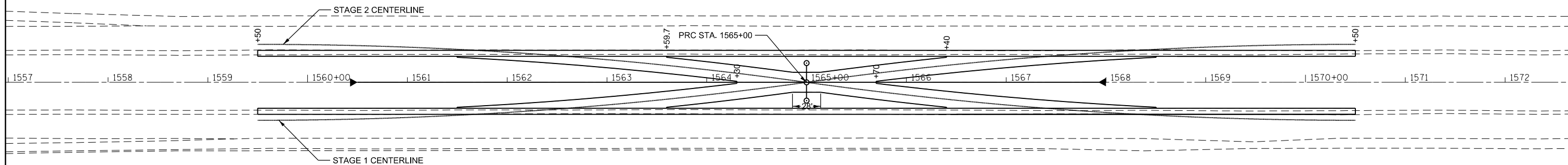
PLAN	SURVEYED	BY	DATE
	PLOTTED		
	ALIGNED		
	CHECKED		
	FILED		
	NO.		



PROFILE	SURVEYED	BY	DATE
	PLOTTED		
	GRADES CHECKED		
	STRUCTURE		
	NOT AT THIS OFFICE		
	NO.		



FILE NAME =	USER NAME = steffennk	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION				PLAN & PROFILE WEST MEDIAN CROSSOVER				F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
Default		DRAWN	REVISED									70	(25-1,2)R	EFFINGHAM	424	104
		CHECKED	REVISED									CONTRACT NO. 74664				
		DATE	REVISED									ILLINOIS FED. AID PROJECT				
				SCALE:	SHEET	OF	SHEETS	STA.	TO	STA.						



PROP. CURVE STG2CL-WC01
 PI STA. = 2+76.34
 $\Delta = 7^\circ 54' 14''$ (RT)
 $D = 1^\circ 25' 57''$
 $R = 4,000.00'$
 $T = 276.34'$
 $L = 551.80'$
 $E = 9.53'$

PROP. CURVE STG1CL-WC01
 PI STA. = 2+76.34
 $\Delta = 7^\circ 54' 14''$ (LT)
 $D = 1^\circ 25' 57''$
 $R = 4,000.00'$
 $T = 276.34'$
 $L = 551.80'$
 $E = 9.53'$

PROP. CURVE STG2CL-WC02
 PI STA. = 8+28.14
 $\Delta = 7^\circ 54' 14''$ (RT)
 $D = 1^\circ 25' 57''$
 $R = 4,000.00'$
 $T = 276.34'$
 $L = 551.80'$
 $E = 9.53'$

PROP. CURVE STG1CL-WC02
 PI STA. = 8+28.14
 $\Delta = 7^\circ 54' 14''$ (LT)
 $D = 1^\circ 25' 57''$
 $R = 4,000.00'$
 $T = 276.34'$
 $L = 551.80'$
 $E = 9.53'$

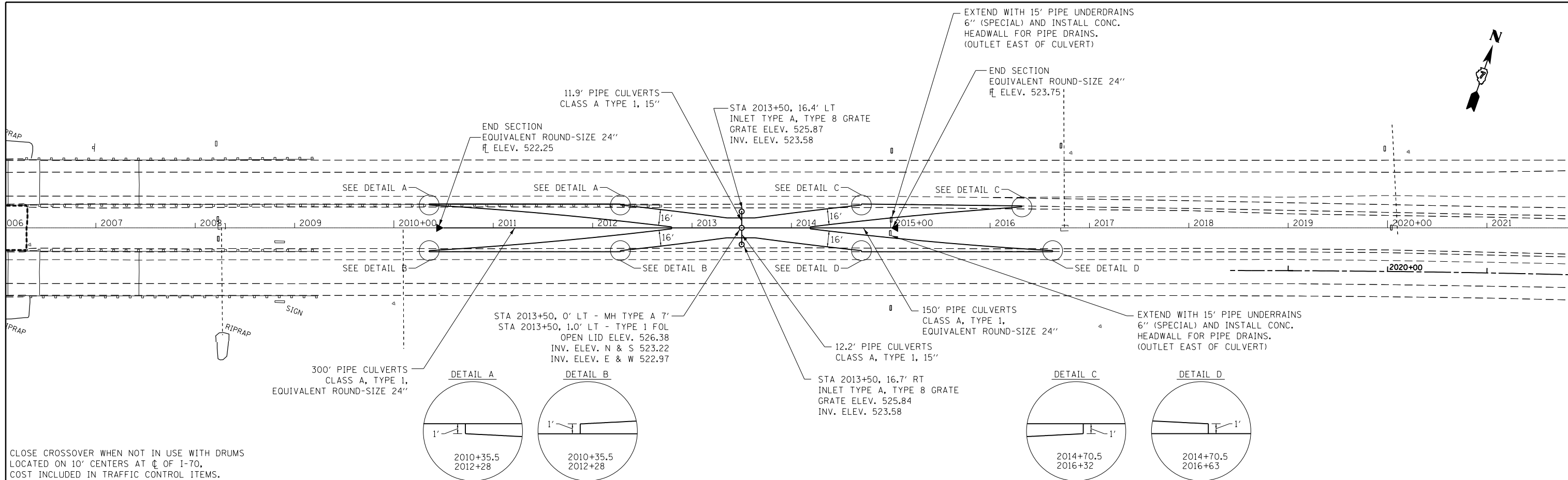


WEST CROSS OVER ELEVATION AND OFFSET DATA

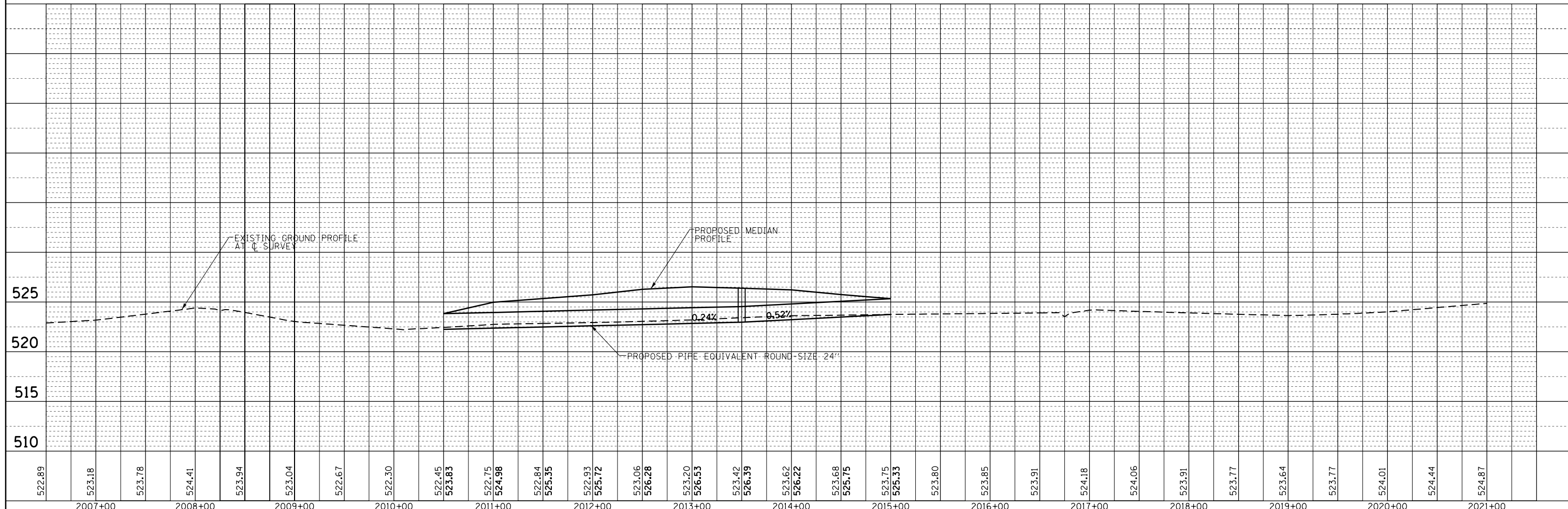
C.L. STATION	STAGE 1 CENTERLINE OFFSET (FT)	STAGE 2 CENTERLINE OFFSET (FT)	E.O.P. LEFT OF C.L. OFFSET (FT)	E.O.P. LEFT OF C.L. ELEV.	E.O.P. LEFT OF C.L. OFFSET (FT)	E.O.P. LEFT OF C.L. ELEV.	BREAK POINT LEFT OFFSET (FT)	BREAK POINT LEFT ELEV.	E.O.P. RIGHT OF C.L. OFFSET (FT)	E.O.P. RIGHT OF C.L. ELEV.	E.O.P. RIGHT OF C.L. OFFSET (FT)	E.O.P. RIGHT OF C.L. ELEV.	BREAK POINT RIGHT OFFSET (FT)	BREAK POINT RIGHT ELEV.
1559+50.00	38.00	-38.00												
1559+75.00	37.92	-37.92												
1560+00.00	37.69	-37.69												
1560+25.00	37.30	-37.30												
1560+50.00	36.75	-36.75												
1560+75.00	36.05	-36.05												
1561+00.00	35.18	-35.18												
1561+25.00	34.17	-34.17												
1561+50.00	32.99	-32.99	-24.98	604.76			-26.00	604.78	24.98	604.78			26.00	604.80
1561+75.00	31.66	-31.66	-23.65	604.83			-26.00	604.88	23.65	604.86			26.00	604.90
1562+00.00	30.18	-30.18	-22.16	604.90			-26.00	605.98	22.16	604.93			26.00	605.00
1562+25.00	28.53	-28.53	-20.51	604.96			-26.00	605.07	20.51	604.99			26.00	605.10
1562+50.00	26.73	-26.73	-18.71	605.02			-26.00	605.17	18.71	605.04			26.00	605.19
1562+75.00	24.77	-24.77	-16.74	605.08			-26.00	605.27	16.74	605.10			26.00	605.28
1563+00.00	22.65	-22.65	-14.62	605.13			-26.00	605.36	14.62	605.16			26.00	605.39
1563+25.00	20.38	-20.38	-12.34	605.19			-26.00	605.46	12.34	605.21			26.00	605.48
1563+50.00	17.95	-17.95	-9.90	605.24	-25.98	605.56			9.90	605.26	25.98	605.58		
1563+75.00	15.35	-15.35	-7.31	605.27	-23.40	605.59			7.31	605.28	23.40	605.61		
1564+00.00	12.60	-12.60	-4.55	605.30	-20.65	605.62			4.55	605.30	20.65	605.64		
1564+25.00	9.69	-9.69	-1.63	605.33	-17.75	605.65			1.63	605.35	17.75	605.69		
1564+50.00	6.62	-6.62			-14.68	605.68	-1.62	605.42			14.68	605.75		
1564+75.00	3.39	-3.39			-11.46	605.71	-1.59	605.52			11.46	605.79		
1565+00.00	0.00	0.00			-10.00	605.79	-1.55	605.62			10.00	605.85		
1565+25.00	-3.39	3.39			-11.46	605.92	-0.95	605.71			11.46	605.96		
1565+50.00	-6.62	6.62			-14.68	606.09	-0.35	605.81			14.68	606.11		
1565+75.00	-9.69	9.69	-1.63	605.93	-17.75	606.25			1.63	605.93	17.75	606.25		
1566+00.00	-12.60	12.60	-4.55	606.08	-20.65	606.40			4.55	606.06	20.65	606.38		
1566+25.00	-15.35	15.35	-7.31	606.25	-23.40	606.57			7.31	606.25	23.40	606.57		
1566+50.00	-17.94	17.94	-9.90	606.41	-25.98	606.73			9.90	606.43	25.98	606.75		
1566+75.00	-20.38	20.38	-12.34	606.55			-26.00	606.83	12.34	606.58			26.00	606.85
1567+00.00	-22.65	22.65	-14.62	606.69			-26.00	606.92	14.62	606.72			26.00	606.95
1567+25.00	-24.77	24.77	-16.74	606.84			-26.00	607.03	16.74	606.86			26.00	607.04
1567+50.00	-26.73	26.73	-18.71	606.98			-26.00	607.13	18.71	607.00			26.00	607.14
1567+75.00	-28.53	28.53	-20.51	607.11			-26.00	607.22	20.51	607.13			26.00	607.24
1568+00.00	-30.18	30.18	-22.16	607.23			-26.00	607.31	22.16	607.26			26.00	607.33
1568+25.00	-31.66	31.66	-23.65	607.36			-26.00	607.41	23.65	607.39			26.00	607.44
1568+50.00	-32.99	32.99	-24.98	607.49			-26.00	607.51	24.98	607.51			26.00	607.53
1568+75.00	-34.17	34.17												
1569+00.00	-35.18	35.18												
1569+25.00	-36.04	36.04												
1569+50.00	-36.75	36.75												
1569+75.00	-37.30	37.30												
1570+00.00	-37.69	37.69												
1570+25.00	-37.92	37.92												
1570+50.00	-38.00	38.00												

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

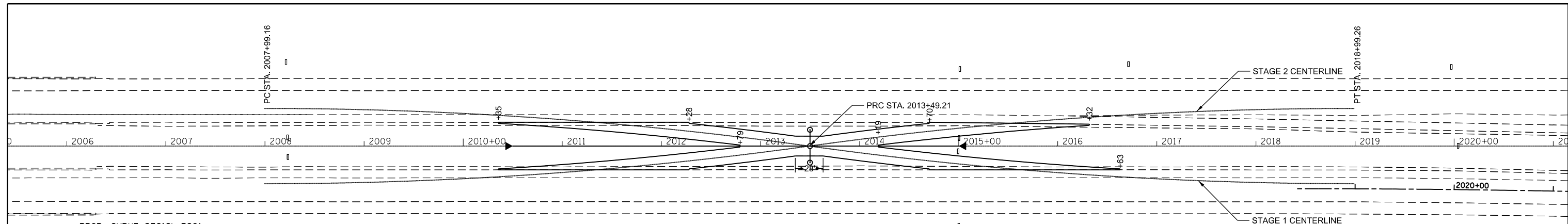
PROFILE	SURVEYED	BY	DATE
	PLOTTED		
	GRADES CHECKED		
	STRUCTURE NOTATIONS CHECKED		
	NOTE BOOK NO.		
	CADD FILE NAME		



CLOSE CROSSOVER WHEN NOT IN USE WITH DRUMS LOCATED ON 10' CENTERS AT C OF I-70, COST INCLUDED IN TRAFFIC CONTROL ITEMS.



FILE NAME =	USER NAME = steffennk	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PLAN & PROFILE				F.A.I. R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
DRAWN -					REVISED -	EAST MEDIAN CROSSOVER				70	(25-1,2)R	EFFINGHAM	424	106
CHECKED -					REVISED -	SCALE:	SHEET	OF	SHEETS	STA.	TO	STA.	CONTRACT NO. 74664	
DATE -					REVISED -	ILLINOIS FED. AID PROJECT								



PROP. CURVE STG1CL.EC01
 PI STA. = 2+76.34
 $\Delta = 7^\circ 54' 14''$ (RT)
 D = $1^\circ 25' 57''$
 R = 4,000.00'
 T = 276.34'
 L = 551.80'
 E = 9.53'

PROP. CURVE STG2CL.EC01
 PI STA. = 2+76.34
 $\Delta = 7^\circ 54' 14''$ (LT)
 D = $1^\circ 25' 57''$
 R = 4,000.00'
 T = 276.34'
 L = 551.80'
 E = 9.53'

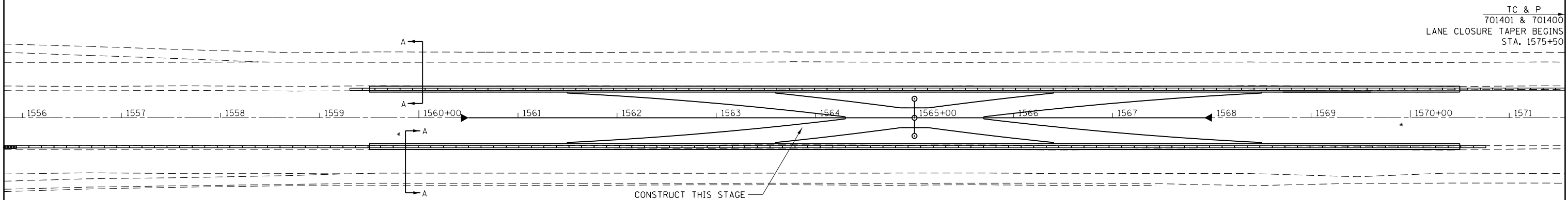
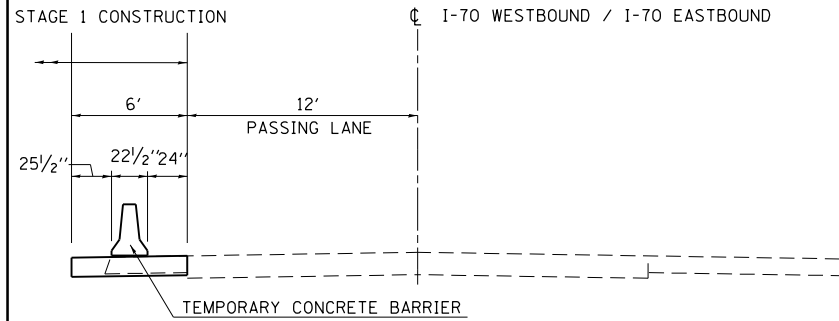
PROP. CURVE STG1CL.EC02
 PI STA. = 8+28.14
 $\Delta = 7^\circ 54' 14''$ (LT)
 D = $1^\circ 25' 57''$
 R = 4,000.00'
 T = 276.34'
 L = 551.80'
 E = 9.53'

PROP. CURVE STG2CL.EC02
 PI STA. = 8+28.14
 $\Delta = 7^\circ 54' 14''$ (RT)
 D = $1^\circ 25' 57''$
 R = 4,000.00'
 T = 276.34'
 L = 551.80'
 E = 9.53'

EAST CROSSOVER ELEVATION AND OFFSET DATA

C.L. STATION	STAGE 1 CENTERLINE		STAGE 2 CENTERLINE		E.O.P. LEFT OF C.L.		E.O.P. LEFT OF C.L.		BREAK POINT LEFT		E.O.P. RIGHT OF C.L.		E.O.P. RIGHT OF C.L.		BREAK POINT RIGHT	
	1-70	OFFSET (FT)	OFFSET (FT)	OFFSET (FT)	OFFSET (FT)	ELEV.	OFFSET (FT)	ELEV.	OFFSET (FT)	ELEV.	OFFSET (FT)	ELEV.	OFFSET (FT)	ELEV.	OFFSET (FT)	ELEV.
2008+00.00		-38.00	38.00													
2008+25.00		-37.92	37.92													
2008+50.00		-37.68	37.68													
2008+75.00		-37.28	37.28													
2009+00.00		-36.73	36.73													
2009+25.00		-36.02	36.02													
2009+50.00		-35.15	35.15													
2009+75.00		-34.13	34.13													
2010+00.00		-32.95	32.95													
2010+25.00		-31.62	31.62													
2010+50.00		-30.13	30.13		-22.11	527.01					22.11	526.99				
2010+75.00		-28.48	28.48		-20.46	527.02					20.46	527.01				
2011+00.00		-26.67	26.67		-18.65	527.02					18.65	527.03				
2011+25.00		-24.71	24.71		-16.68	526.98					16.68	527.00				
2011+50.00		-22.58	22.58		-14.55	526.93					14.55	526.97				
2011+75.00		-20.30	20.30		-12.27	526.88					12.27	526.94				
2012+00.00		-17.87	17.87		-9.82	526.83					9.82	526.90				
2012+25.00		-15.27	15.27		-7.22	526.74					7.22	526.81				
2012+50.00		-12.51	12.51		-4.46	526.65	-20.56	526.97			4.46	526.70	20.56	527.03		
2012+75.00		-9.60	9.60		-1.54	526.56	-17.65	526.88			1.54	526.50	17.65	526.92		
2013+00.00		-6.52	6.52				-14.58	526.78	-0.75	526.50			14.58	526.81		
2013+25.00		-3.29	3.29				-11.36	526.66	-0.50	526.42			11.36	526.68		
2013+50.00		0.11	-0.11				-10.00	526.56	-0.50	526.37			10.00	526.58		
2013+75.00		3.50	-3.50				-11.56	526.52	-0.25	526.29			11.56	526.53		
2014+00.00		6.72	-6.72				-14.78	526.52	0.00	526.22			14.78	526.52		
2014+25.00		9.79	-9.79		-1.73	526.20	-17.84	526.52			1.73	526.18	17.84	526.51		
2014+50.00		12.69	-12.69		-4.64	526.20	-20.74	526.52			4.64	526.18	20.74	526.51		
2014+75.00		15.44	-15.44		-7.39	526.19					7.39	526.17				
2015+00.00		18.02	-18.02		-9.98	526.18					9.98	526.16				
2015+25.00		20.45	-20.45		-12.42	526.16					12.42	526.16				
2015+50.00		22.72	-22.72		-14.69	526.13					14.69	526.15				
2015+75.00		24.84	-24.84		-16.81	526.10					16.81	526.14				
2016+00.00		26.79	-26.79		-18.77	526.06					18.77	526.13				
2016+25.00		28.59	-28.59		-20.57	526.05					20.57	526.16				
2016+50.00		30.23	-30.23								22.21	526.18				
2016+75.00		31.71	-31.71													
2017+00.00		33.03	-33.03													
2017+25.00		34.20	-34.20													
2017+50.00		35.21	-35.21													
2017+75.00		36.07	-36.07													
2018+00.00		36.77	-36.77													
2018+25.00		37.31	-37.31													
2018+50.00		37.70	-37.70													
2018+75.00		37.93	-37.93													

SECTION A-A



TC & P
701401 & 701400
LANE CLOSURE TAPER BEGINS
STA. 1575+50

TC & P
701401 & 701400
LANE CLOSURE TAPER BEGINS
STA. 1554+50

TEMPORARY CONCRETE BARRIER				
STATION	TO	STATION	FEET	DESCRIPTION
1556+01		1570+76	1475	EASTBOUND PASSING LANE SHOULDER
1559+25		1574+00	1475	WESTBOUND PASSING LANE SHOULDER
2009+14		2016+89	775	EASTBOUND PASSING LANE SHOULDER
2010+07		2019+82	975	WESTBOUND PASSING LANE SHOULDER
TOTAL			4700	

PORTLAND CEMENT CONCRETE PAVEMENT 10 1/2"				
STATION	TO	STATION	AREA (SQ YD)	DESCRIPTION
1559+50		1570+50	1662	WEST MEDIAN CROSSOVER
2010+35		2016+63	1451	EAST MEDIAN CROSSOVER
TOTAL			3113	

IMPACT ATTENUATORS, TEMPORARY (FULLY REDIRECTIVE, NARROW)		
STATION	EACH	DESCRIPTION
1556+00	1	EASTBOUND PASSING LANE SHOULDER
1574+00	1	WESTBOUND PASSING LANE SHOULDER
2009+14	1	EASTBOUND PASSING LANE SHOULDER
2019+82	1	WESTBOUND PASSING LANE SHOULDER
TOTAL		4

AGGREGATE BASE COURSE TYPE B					
STATION	TO	STATION	CU YD	TON	DESCRIPTION
1559+00		1570+50	3305	6775.3	WEST MEDIAN CROSSOVER
2010+50		2016+50	1342	2751.1	EAST MEDIAN CROSSOVER
TOTAL				9526	

SUGGESTED SEQUENCE OF OPERATIONS

1. CONSTRUCT WEST CROSSOVER UTILIZING STANDARD 701401 & 701400 AS ALLOWED. (SEE SPL. PROV.)
2. CONSTRUCT EAST CROSSOVER BEHIND TEMPORARY CONCRETE BARRIER
3. BEGIN TREE REMOVAL, EMBANKMENT, AND CULVERT EXTENSION WORK.
4. CONSTRUCT 7' WIDE HMA BASE COURSE 12", IN THE EB DRIVING LANE SHOULDER FOR USE DURING STAGE 2.

PINNING TEMPORARY CONCRETE BARRIER				
STATION	TO	STATION	EACH	DESCRIPTION
1559+50		1570+50	267	EASTBOUND PASSING LANE SHOULDER
1559+50		1570+50	267	WESTBOUND PASSING LANE SHOULDER
2010+35		2016+63	156	EASTBOUND PASSING LANE SHOULDER
2010+35		2016+32	147	WESTBOUND PASSING LANE SHOULDER
TOTAL			837	

TOPSOIL EXCAVATION				
STATION	TO	STATION	VOLUME (CU YD)	DESCRIPTION
1559+00		1570+50	1008	WEST MEDIAN CROSSOVER
2010+50		2016+50	463	EAST MEDIAN CROSSOVER
TOTAL			1471	

IMP. ATT., TEMP. (FULLY-RED.) NARROW

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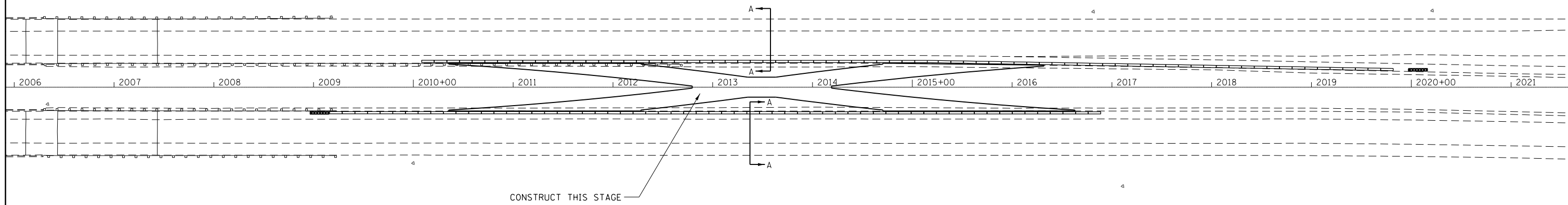
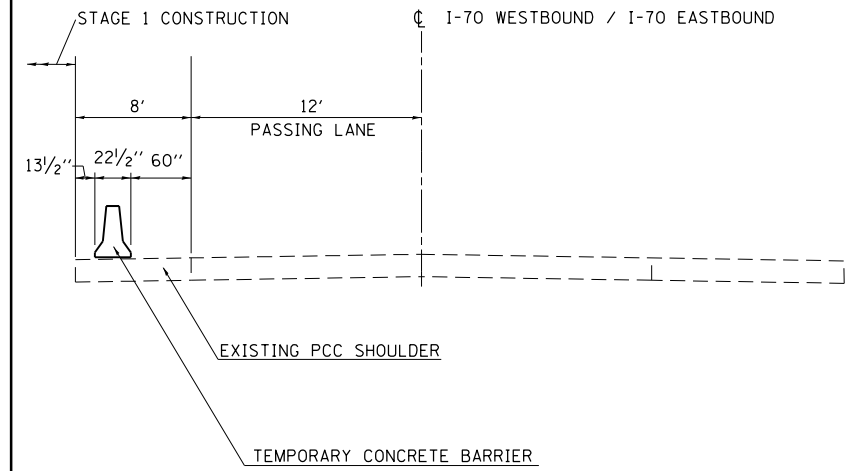
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STAGE 1 TRAFFIC CONTROL
WEST MEDIAN CROSSOVER

SCALE: SHEET 1 OF 10 SHEETS STA. TO STA.

F.A.I. RE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	(25-1,2)R	EFFINGHAM	424	108
CONTRACT NO. 74664			ILLINOIS FED. AID PROJECT	

SECTION A-A



IMP. ATT., TEMP. (FULLY-RED.) NARROW

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

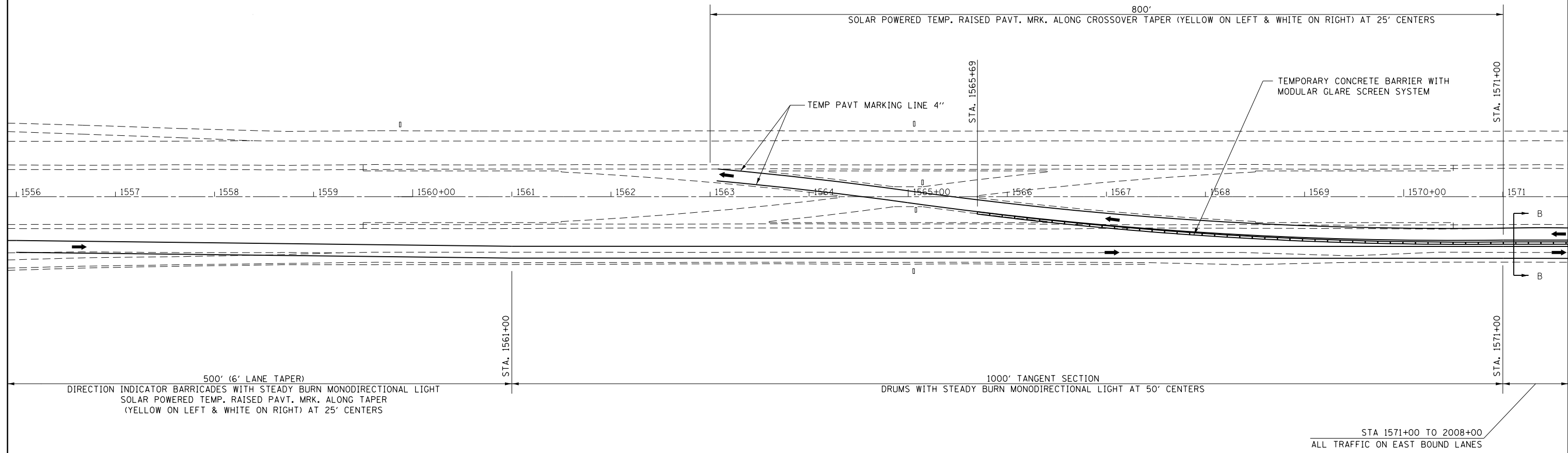
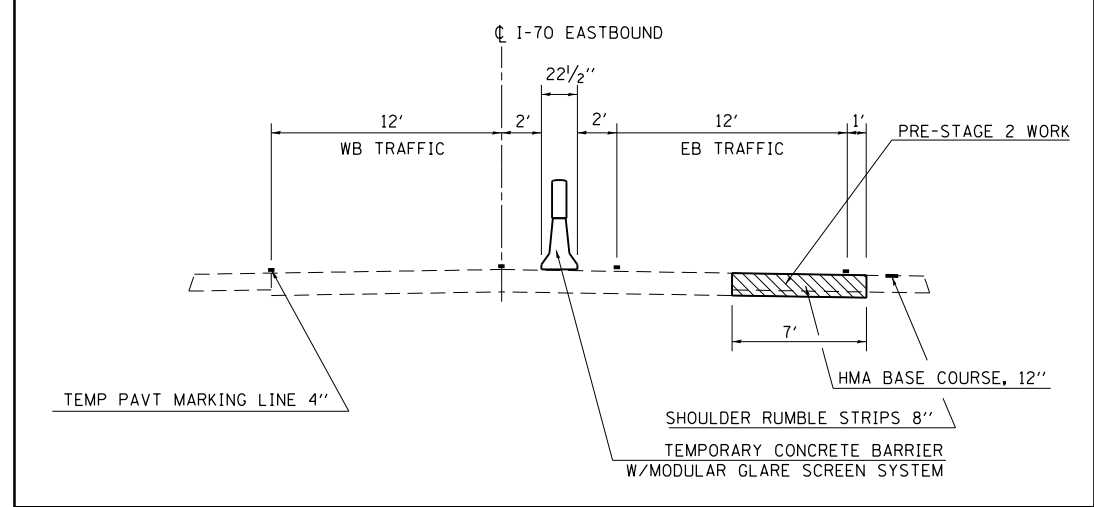
STAGE 1 TRAFFIC CONTROL
EAST MEDIAN CROSSOVER

SCALE: SHEET 1A OF 10 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	(25-1,2)R	EFFINGHAM	424	108A
CONTRACT NO. 74664			ILLINOIS FED. AID PROJECT	



SECTION B-B
STAGE 2 TRAFFIC



NOTE: SEE STD. 701416
FOR DETAILS NOT SHOWN

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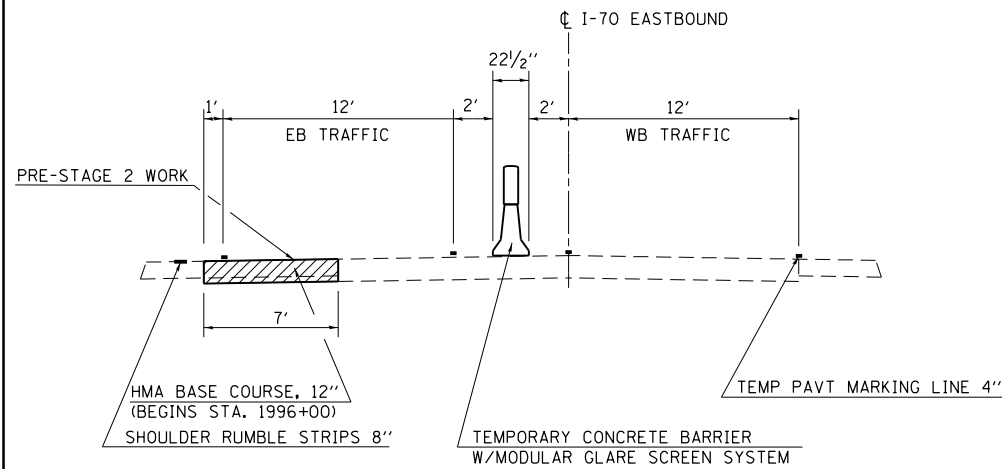
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STAGE 2 TRAFFIC CONTROL

SCALE: SHEET 2 OF 10 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	(25-1,2)R	EFFINGHAM	424	109
CONTRACT NO. 74664			ILLINOIS FED. AID PROJECT	

SECTION A-A



SUGGESTED SEQUENCE OF OPERATIONS

PRE-STAGE 2

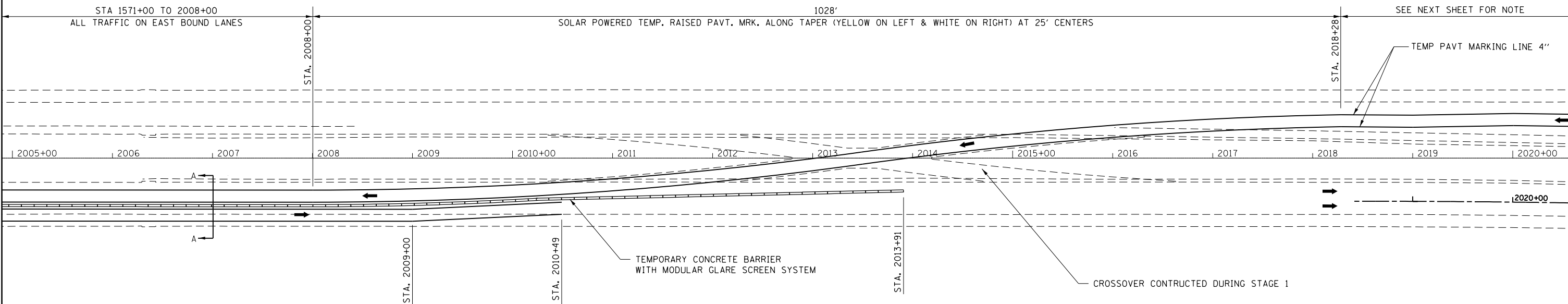
1. PATCH PAVEMENT IN EB LANES FOR STAGE 2 TRAFFIC.
2. CONSTRUCT 7' WIDE HMA BASE COURSE 12" IN THE EB DRIVING LANE SHOULDER.
3. REMOVE DELINEATORS.
4. CONSTRUCT RUMBLE STRIP 8" IN EB DRIVING LANE SHOULDER.
5. INSTALL TEMPORARY GUARDRAIL.
6. INSTALL TEMPORARY CONCRETE BARRIER WALL IN EB DRIVING LANE.
7. CONTINUE TREE REMOVAL, EMBANKMENT, AND CULVERT EXTENSION WORK.

STAGE 2

1. MOVE WB TRAFFIC TO EB PASSING LANE.
2. CONSTRUCT WB RUBBLIZATION AND HMA FULL-DEPTH PAVEMENT SECTIONS.
3. COMPLETE WB EMBANKMENT, CULVERT EXTENSIONS, GUARDRAIL, SEEDING, ETC.

BITUMINOUS MATERIALS (TACK COAT)							
STATION	TO	STATION	SIDE	LENGTH (FT)	WIDTH (FT)	AREA (SQ FT)	POUND
1556+00		1732+69	EB OUT	17669	7	123680.2	3092.0
1732+88		1785+99	EB OUT	5311	7	37173.2	929.3
1786+28		1927+46	EB OUT	14118	7	98827.1	2470.7
1927+72		1996+00	EB OUT	6828	7	47793.8	1194.8
1522+83		1524+43	WB OUT	160	7	1120.0	28.0
1526+00		1535+05	WB OUT	905	7	6335.0	158.4
1536+38		1559+85	WB OUT	2347	7	16429.0	410.7
TOTAL							8284

HOT-MIX ASPHALT BASE COURSE, 12"							
STATION	TO	STATION	SIDE	LENGTH (FT)	WIDTH (FT)	AREA (SQ YD)	
1556+00		1732+69	EB OUT	17669	7	13742.2	
1732+88		1785+99	EB OUT	5311	7	4130.4	
1786+28		1927+46	EB OUT	14118	7	10980.8	
1927+72		1996+00	EB OUT	6828	7	5310.4	
1522+83		1524+43	WB OUT	160	7	124.4	
1526+00		1535+05	WB OUT	905	7	703.9	
1536+38		1559+85	WB OUT	2347	7	1825.4	
TOTAL							36818



PAVEMENT MARKING BLACKOUT TAPE - LINE 7"					
STATION	TO	STATION	DIRECTION	LENGTH (FT)	TAPE (FT)
2028+28		2038+28	WB	1000.0	275.0
TOTAL					275

TEMPORARY RAISED PAVEMENT MARKER						
STATION	TO	STATION	DIRECTION	LENGTH (FT)	EACH	DESCRIPTION
2008+00		2018+28	EB & WB	1028.0	82	BOTH EDGE LINES
2028+28		2038+28	WB	1000.0	40	ONE EDGE LINE
TOTAL					122	

PAVEMENT MARKING REMOVAL - WATER BLASTING						
STATION	TO	STATION	DIRECTION	LENGTH (FT)	TOTAL (SQ FT)	DESCRIPTION
1571+00		2010+49	EB	43949	20143	REMOVE ONE 4" EDGE LINE & 6" CENTERLINE
1571+00		2010+49	EB	43949	14650	1 LINE - REM TEMP PAVT MRKG NOT SHOWN ON STD
TOTAL					34793	

PAVEMENT MARKING BLACKOUT TAPE - LINE 5"					
STATION	TO	STATION	DIRECTION	LENGTH (FT)	
2010+52		2012+00	EB	148.0	
2015+75		2017+30	WB	155.0	
TOTAL					303

FILLING EXISTING RUMBLE STRIP					
STATION	TO	STATION	DIRECTION	LENGTH (FT)	DESCRIPTION
2015+76		2017+31	WB	155.0	INSIDE SHLDR
TOTAL					155

TEMPORARY PAVEMENT MARKING - LINE 4"						
STATION	TO	STATION	DIRECTION	LENGTH (FT)	TOTAL (FT)	DESCRIPTION
1571+00		2010+49	EB	43949.0	43949.0	1 LINE (3 LINES INCLUDED IN HIGHWAY STANDARD 701416)
1571+00		2010+49	EB	43949.0	98885.25	2 EDGE LINES & CENTERLINE - AFTER STAGE 2 COMPLETE
TOTAL					142834	

SHORT TERM PAVEMENT MARKING REMOVAL							
STATION	TO	STATION	DIRECTION	LENGTH (FT)	WIDTH (FT)	AREA (SQ FT)	DESCRIPTION
2010+52		2012+00	WB	148.0	0.42	61.67	EDGE LINE
2015+75		2017+30	WB	155.0	0.42	64.58	EDGE LINE
2028+28		2038+28	WB	1000.0	0.58	160.42	CENTERLINE & SKIP-DASH
TOTAL						287	

NOTE: SEE STD. 701416 FOR DETAILS NOT SHOWN
T = 43,680'

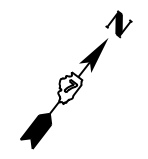
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

STAGE 2 TRAFFIC CONTROL

SCALE: SHEET 3 OF 10 SHEETS STA. TO STA.

F.A.I. RE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	(25-1,2)R	EFFINGHAM	424	110
CONTRACT NO. 74664				
ILLINOIS FED. AID PROJECT				



TEMPORARY TRAFFIC BARRIER TERMINAL, TYPE 1				
LOCATION	DIRECTION / SIDE	EACH		
SN 025-0057	EB / INSIDE	1		
SN 025-0058	EB / INSIDE	1		
SN 025-0059	EB / INSIDE	1		
SN 025-0045	EB / INSIDE	1		
STATION	TO	STATION	DIRECTION / SIDE	EACH
2009+85.50		2010+35.50	EB / INSIDE	1
TOTAL				5

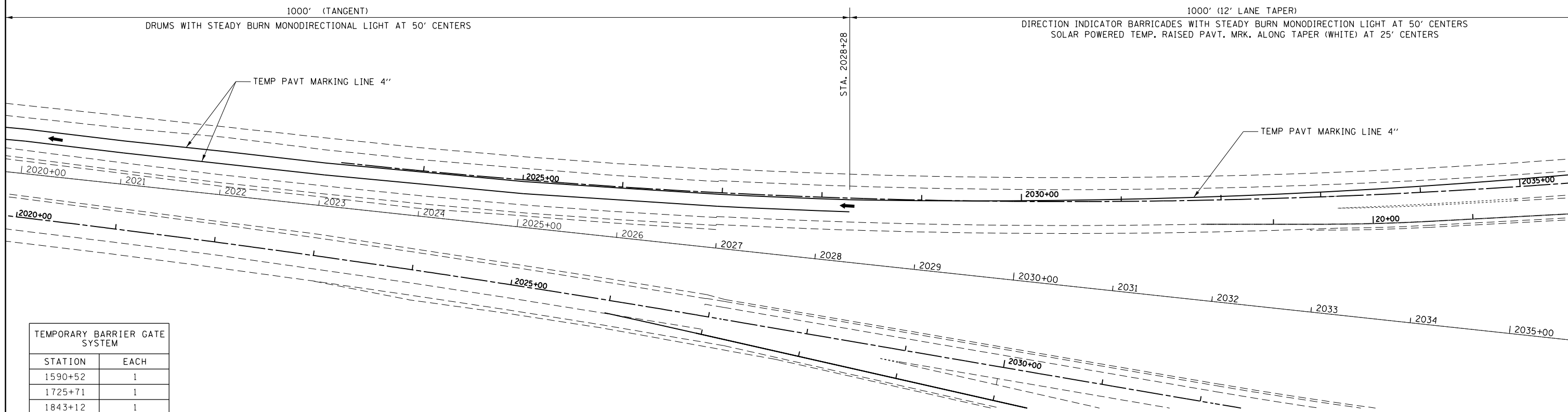
TERMINAL MARKER - DIRECT APPLIED				
LOCATION	DIRECTION / SIDE	EACH		
SN 025-0057	EB / INSIDE	1		
SN 025-0058	EB / INSIDE	1		
SN 025-0059	EB / INSIDE	1		
SN 025-0045	EB / INSIDE	1		
STATION	TO	STATION	DIRECTION / SIDE	EACH
2009+85.50		2010+35.50	EB / INSIDE	1
TOTAL				5

TEMPORARY STEEL PLATE BEAM GUARDRAIL, TYPE A				
STATION	TO	STATION	DIRECTION / SIDE	LENGTH (FT)
2009+10.50		2009+85.50	EB / INSIDE	75.0
SN 025-0057			EB / INSIDE	50.0
SN 025-0058			EB / INSIDE	50.0
SN 025-0059			EB / INSIDE	50.0
SN 025-0045			EB / INSIDE	50.0
TOTAL				275.0

GUARDRAIL REFLECTORS, TYPE A				
LOCATION	DIRECTION / SIDE	EACH		
SN 025-0057	EB / INSIDE	4		
SN 025-0058	EB / INSIDE	4		
SN 025-0059	EB / INSIDE	4		
SN 025-0045	EB / INSIDE	4		
STATION	TO	STATION	DIRECTION / SIDE	EACH
2009+10.50		2010+35.50	EB / INSIDE	1
TOTAL				17

TEMPORARY TRAFFIC BARRIER TERMINAL, TYPE 2				
LOCATION	DIRECTION / SIDE	EACH		
SN 025-0057	WB / INSIDE	1		
SN 025-0058	WB / INSIDE	1		
SN 025-0059	WB / INSIDE	1		
SN 025-0045	WB / INSIDE	1		
TOTAL				4

REMOVE AND REERECT TRAFFIC BARRIER TERMINALS TYPE 2				
STATION	TO	STATION	DIRECTION / SIDE	EACH
2009+10.5		2009+23	EB / INSIDE	1
TOTAL				1

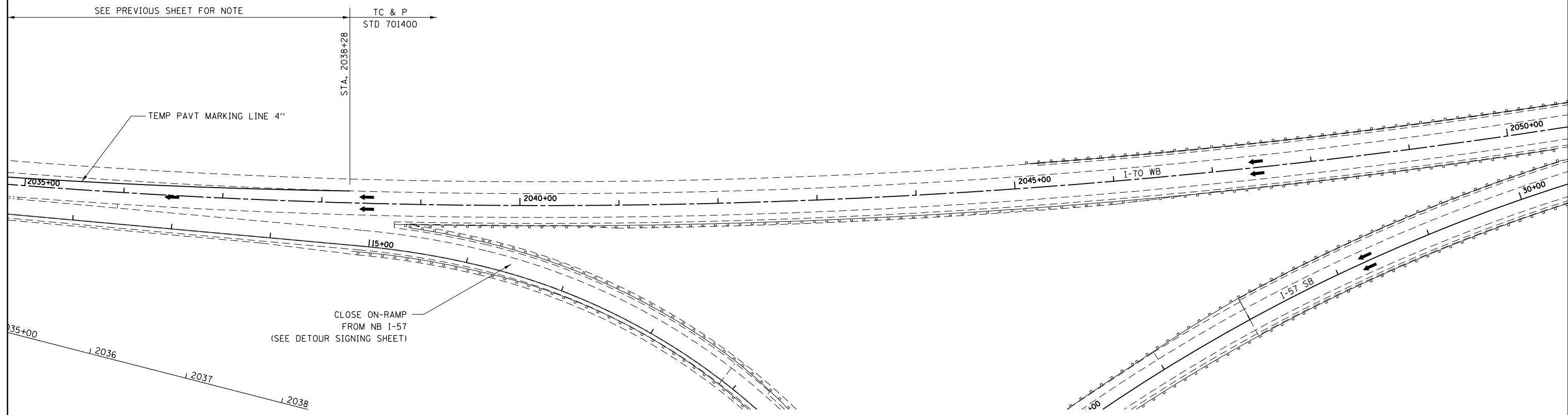
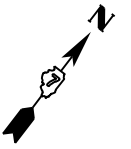


TEMPORARY BARRIER GATE SYSTEM	
STATION	EACH
1590+52	1
1725+71	1
1843+12	1
1977+57	1
TOTAL	4

TEMPORARY CONCRETE BARRIER				
STATION	TO	STATION	DIRECTION	LENGTH (FT)
1565+69.00		1590+32.50	EB	2463.5
1590+71.50		1725+51.50	EB	13480.0
1725+90.50		1732+68.60	EB	678.1
1732+88.69		1785+99.15	EB	5310.5
1786+28.38		1842+92.50	EB	5664.1
1843+31.50		1927+46.53	EB	8415.0
1927+72.31		1977+37.50	EB	4965.2
1977+76.50		2013+91.00	EB	3614.5
TOTAL				44591

MODULAR GLARE SCREEN SYSTEM, TEMPORARY			
STATION	TO	STATION	LENGTH (FT)
1565+69.00		1590+32.50	2463.5
1590+71.50		1725+51.50	13480.0
1725+90.50		1732+68.60	678.1
1732+88.69		1785+99.15	5310.5
1786+28.38		1842+92.50	5664.1
1843+31.50		1927+46.53	8415.0
1927+72.31		1977+37.50	4965.2
1977+76.50		2013+91.00	3614.5
TOTAL			44591

NOTE: SEE STD. 701416 FOR DETAILS NOT SHOWN



SEE PREVIOUS SHEET FOR NOTE

TC & P
STD 701400

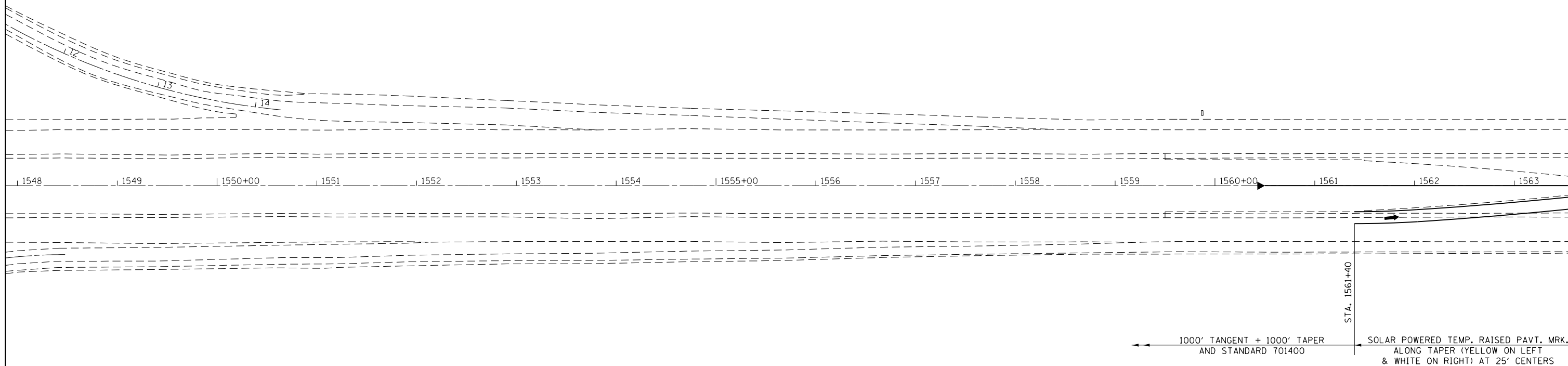
STA. 2038+28

TEMP PAVT MARKING LINE 4"

CLOSE ON-RAMP
FROM NB I-57
(SEE DETOUR SIGNING SHEET)

NOTE: SEE STD. 701416
FOR DETAILS NOT SHOWN

FILE NAME =	USER NAME = steffenmk	DESIGNED -	REVIS	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	STAGE 2 TRAFFIC CONTROL			F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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Default	PLOT SCALE = 100.0000' / in.	DATE -	REVIS		SCALE: SHEET 5 OF 10 SHEETS STA. TO STA.			CONTRACT NO. 74664				
	PLOT DATE = 8/25/2017	DATE -	REVIS		ILLINOIS FED. AID PROJECT							



SUGGESTED SEQUENCE OF OPERATIONS

STAGE 3

1. MOVE EB TRAFFIC TO WB PASSING LANE.
2. CONSTRUCT EB RUBBLIZATION AND HMA FULL-DEPTH PAVEMENT SECTIONS, INCLUDING PERMANENT PAVEMENT MARKINGS AND RUMBLE STRIPS.
3. COMPLETE EB EMBANKMENT, CULVERT EXTENSIONS, AND SEEDING.

NOTE: SEE STD. 701416
FOR DETAILS NOT SHOWN
L=865' T=43,680'

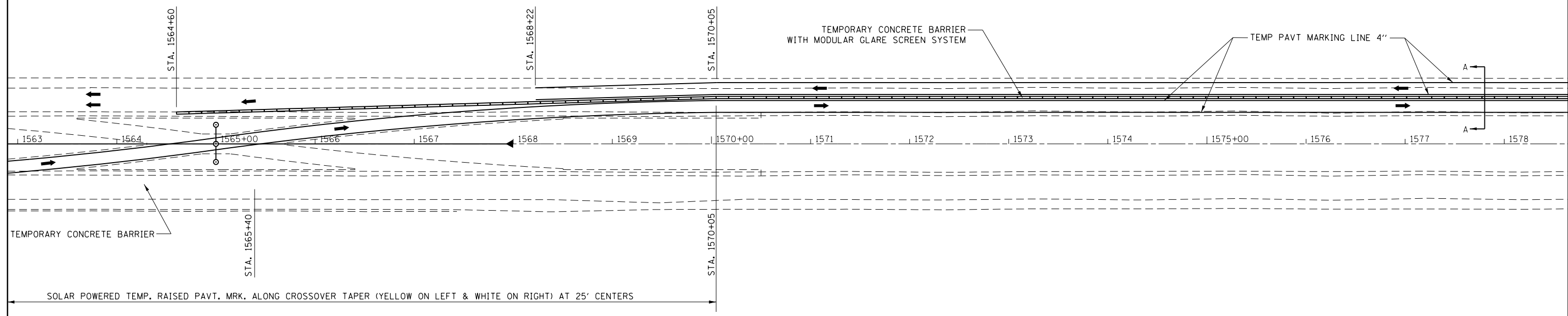
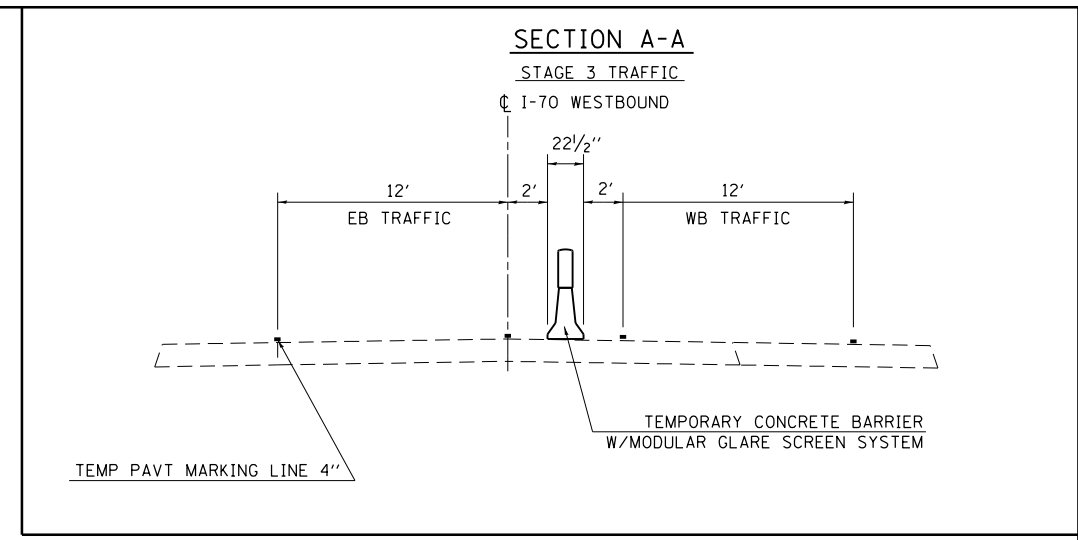
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Default	PLOT DATE = 8/25/2017	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

STAGE 3 TRAFFIC CONTROL

SCALE: SHEET 6 OF 10 SHEETS STA. TO STA.

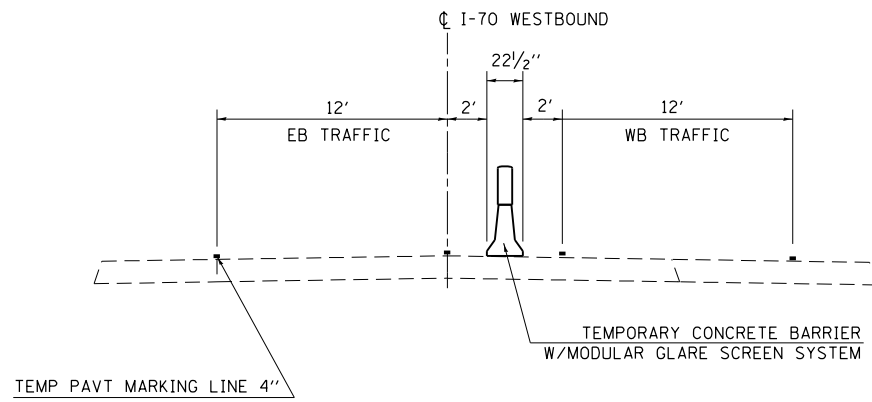
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	(25-1,2)R	EFFINGHAM	424	113
ILLINOIS FED. AID PROJECT			CONTRACT NO. 74664	



NOTE: SEE STD. 701416
FOR DETAILS NOT SHOWN

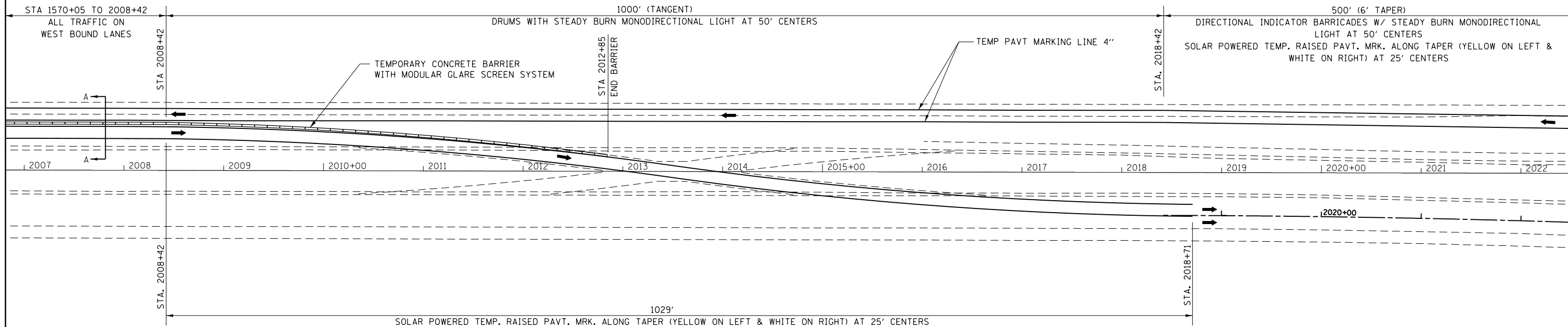
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	PLOT DATE = 8/25/2017	DATE -	REVISED -		SCALE:	SHEET 7	OF 10 SHEETS	STA.	TO STA.			

SECTION A-A



TEMPORARY RAISED PAVEMENT MARKER						
STATION	TO	STATION	DIRECTION	LENGTH (FT)	EACH	DESCRIPTION
2008+42		2018+71	EB & WB	1029.0	82	BOTH EDGE LINES
2018+42		2023+42	WB	500.0	40	BOTH EDGE LINES
2033+42		2043+42	WB	1000.0	40	ONE EDGE LINE
TOTAL					162	

FILLING EXISTING RUMBLE STRIP					
STATION	TO	STATION	DIRECTION	LENGTH (FT)	DESCRIPTION
1996+75		2001+19	WB	444.0	OUTSIDE SHLDR
2006+43		2023+42	WB	1699.0	OUTSIDE SHLDR
TOTAL				2143	



PAVEMENT MARKING REMOVAL - WATER BLASTING						
STATION	TO	STATION	DIRECTION	LENGTH (FT)	TOTAL (SQ FT)	DESCRIPTION
1568+22		2008+42	WB	44020	20176	REMOVE ONE 4" EDGE LINE & 6" CENTERLINE
1568+22		2008+42	WB	44020	14673	1 LINE - REM TEMP PAVT MRKS NOT SHOWN ON STD
TOTAL					34849	

TEMPORARY PAVEMENT MARKING - LINE 4"						
STATION	TO	STATION	DIRECTION	LENGTH (FT)	TOTAL (FT)	DESCRIPTION
1568+22		2008+42	WB	44020.0	44020.0	1 LINE (3 LINES INCLUDED IN HIGHWAY STANDARD 701416)
TOTAL					44020	

PAVEMENT MARKING BLACKOUT TAPE - LINE 7"					
STATION	TO	STATION	DIRECTION	LENGTH (FT)	TAPE (FT)
2033+42		2043+42	WB	1000.0	275.0
TOTAL					275

PAVEMENT MARKING BLACKOUT TAPE - LINE 5"				
STATION	TO	STATION	DIRECTION	LENGTH (FT)
2010+50		2012+00	WB	150.0
2015+00		2016+47	EB	147.0
2008+42		2023+42	WB	1500.0
TOTAL				1797

SHORT TERM PAVEMENT MARKING REMOVAL							
STATION	TO	STATION	DIRECTION	LENGTH (FT)	WIDTH (FT)	AREA (SQ FT)	DESCRIPTION
2008+42		2023+42	WB	1500.0	0.42	625.00	EDGE LINE
2010+50		2012+00	WB	150.0	0.42	62.50	EDGE LINE
2015+00		2016+47	EB	147.0	0.42	61.25	EDGE LINE
2033+42		2043+42	WB	1000.0	0.58	160.42	CENTERLINE & SKIP-DASH
TOTAL						909	

NOTE: SEE STD. 701416 FOR DETAILS NOT SHOWN T = 43,680'

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Default	PLOT DATE = 8/25/2017	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STAGE 3 TRAFFIC CONTROL

SCALE: SHEET 8 OF 10 SHEETS STA. TO STA.

F.A.I. RE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	(25-1,2)R	EFFINGHAM	424	115
CONTRACT NO. 74664			ILLINOIS FED. AID PROJECT	

TEMPORARY TRAFFIC BARRIER TERMINAL, TYPE 1				
LOCATION	DIRECTION / SIDE	EACH		
SN 025-0057	WB / INSIDE	1		
SN 025-0058	WB / INSIDE	1		
SN 025-0059	WB / INSIDE	1		
SN 025-0045	WB / INSIDE	1		
STATION	TO	STATION	DIRECTION / SIDE	EACH
1997+77.00		1998+27.00	WB / INSIDE	1
TOTAL				5

TERMINAL MARKER - DIRECT APPLIED				
LOCATION	DIRECTION / SIDE	EACH		
SN 025-0057	EB / INSIDE	1		
SN 025-0058	EB / INSIDE	1		
SN 025-0059	EB / INSIDE	1		
SN 025-0045	EB / INSIDE	1		
STATION	TO	STATION	DIRECTION / SIDE	EACH
1997+77.00		1998+27.00	WB / INSIDE	1
TOTAL				5

REMOVE AND REERECT TRAFFIC BARRIER TERMINALS, TYPE 1				
STATION	TO	STATION	DIRECTION / SIDE	EACH
2012+20		2012+70	WB / INSIDE	1
TOTAL				1

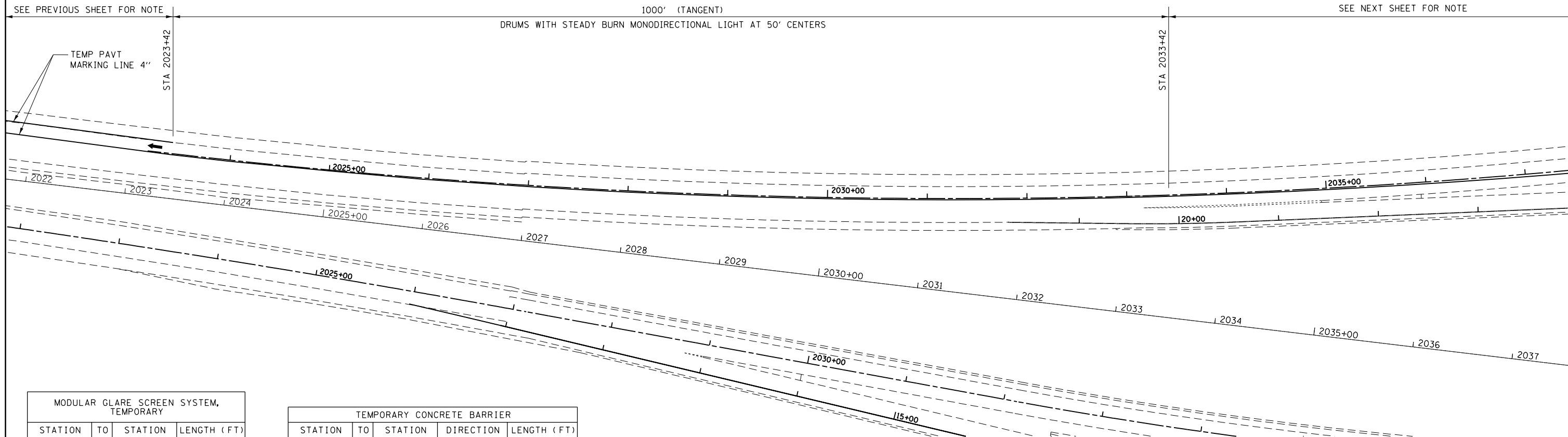
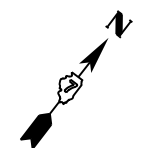
TEMPORARY TRAFFIC BARRIER TERMINAL, TYPE 6				
STATION	TO	STATION	DIRECTION / SIDE	EACH
2000+89.50		2001+34.00	WB / INSIDE	1
TOTAL				1

TEMPORARY TRAFFIC BARRIER TERMINAL, TYPE 2				
LOCATION	DIRECTION / SIDE	EACH		
SN 025-0057	WB / INSIDE	1		
SN 025-0058	WB / INSIDE	1		
SN 025-0059	WB / INSIDE	1		
SN 025-0045	WB / INSIDE	1		
STATION	TO	STATION	DIRECTION / SIDE	EACH
2010+20.00		2010+32.50	WB / INSIDE	1
TOTAL				5

GUARDRAIL REFLECTORS, TYPE A				
LOCATION	DIRECTION / SIDE	EACH		
SN 025-0057	EB / INSIDE	4		
SN 025-0058	EB / INSIDE	4		
SN 025-0059	EB / INSIDE	4		
SN 025-0045	EB / INSIDE	4		
STATION	TO	STATION	DIRECTION / SIDE	EACH
1997+77.00		2001+34.50	WB / INSIDE	4
2010+20.00		2010+32.50	WB / INSIDE	1
TOTAL				21

REMOVE AND REERECT STEEL PLATE BEAM GUARDRAIL, TYPE A				
STATION	TO	STATION	DIRECTION / SIDE	FOOT
2010+20		2012+20	WB / INSIDE	200.00
TOTAL				200

TEMPORARY STEEL PLATE BEAM GUARDRAIL, TYPE A				
STATION	TO	STATION	DIRECTION / SIDE	LENGTH (FT)
1998+27.00		2000+89.50	WB / INSIDE	262.5
SN 025-0057			WB / INSIDE	50.0
SN 025-0058			WB / INSIDE	50.0
SN 025-0059			WB / INSIDE	50.0
SN 025-0045			WB / INSIDE	50.0
TOTAL				462.5

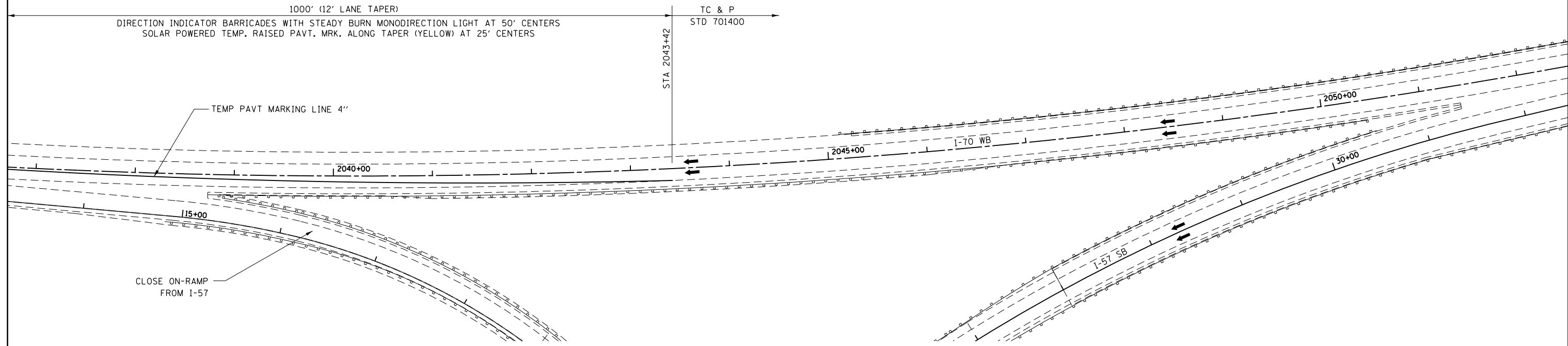
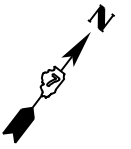


MODULAR GLARE SCREEN SYSTEM, TEMPORARY			
STATION	TO	STATION	LENGTH (FT)
1564+60.00		1590+32.50	2572.5
1590+71.50		1725+51.50	13480.0
1725+90.50		1732+68.60	678.1
1732+88.69		1785+99.15	5310.5
1786+28.38		1842+92.50	5664.1
1843+31.50		1927+46.53	8415.0
1927+72.31		1977+37.50	4965.2
1977+76.50		2012+85.00	3508.5
TOTAL			44594

TEMPORARY CONCRETE BARRIER				
STATION	TO	STATION	DIRECTION	LENGTH (FT)
1564+60.00		1590+32.50	WB	2572.5
1590+71.50		1725+51.50	WB	13480.0
1725+90.50		1732+68.60	WB	678.1
1732+88.69		1785+99.15	WB	5310.5
1786+28.38		1842+92.50	WB	5664.1
1843+31.50		1927+46.53	WB	8415.0
1927+72.31		1977+37.50	WB	4965.2
1977+76.50		2012+85.00	WB	3508.5
TOTAL				44594

TEMPORARY BARRIER GATE SYSTEM		
STATION	EACH	
1590+52	1	
1725+71	1	
1843+12	1	
1977+57	1	
TOTAL		4

NOTE: SEE STD. 701416 FOR DETAILS NOT SHOWN



NOTE: SEE STD. 701416
FOR DETAILS NOT SHOWN

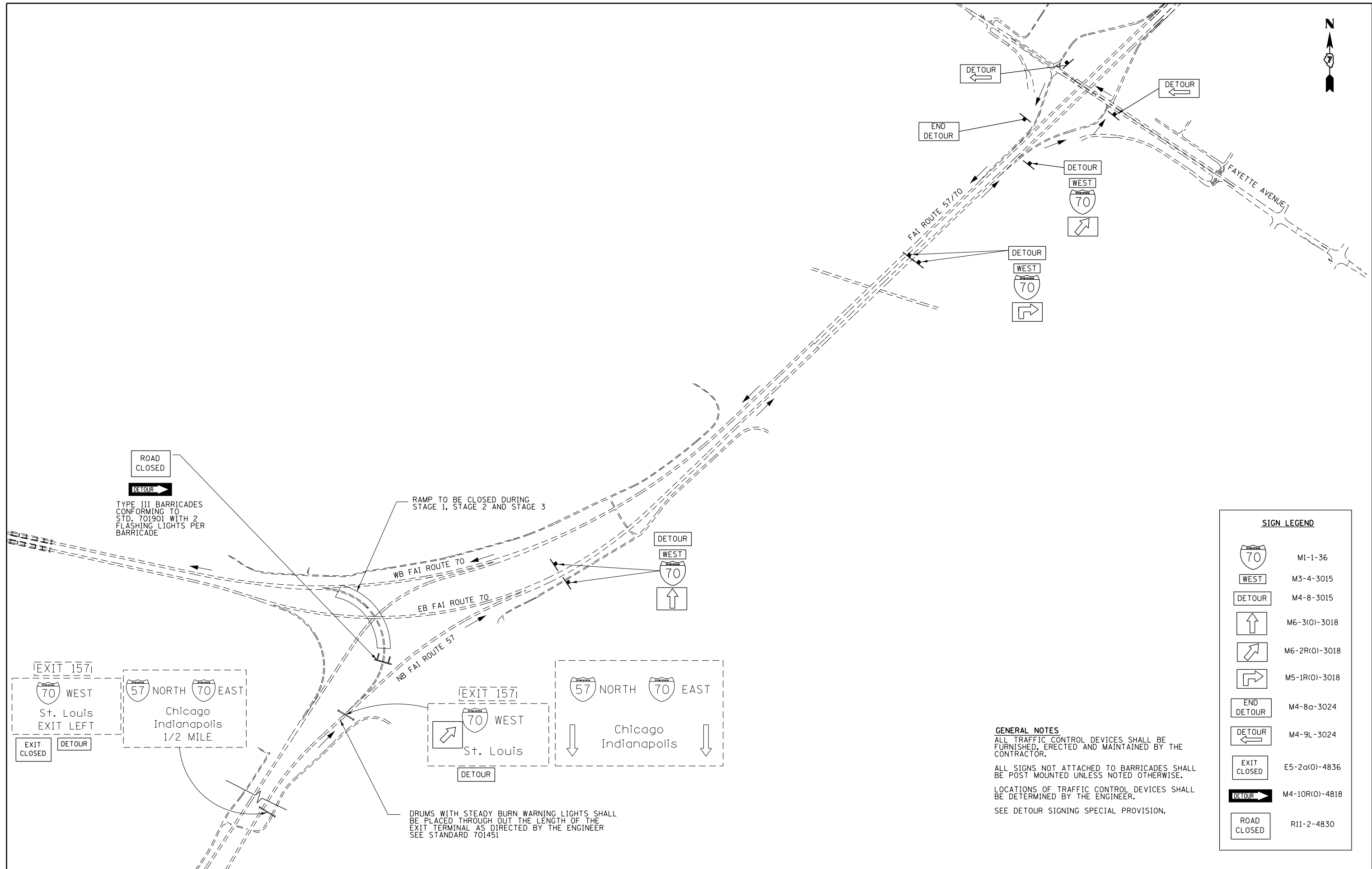
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Default	PLOT DATE = 8/25/2017	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

STAGE 3 TRAFFIC CONTROL

SCALE: SHEET 10 OF 10 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	(25-1,2)R	EFFINGHAM	424	117
ILLINOIS FED. AID PROJECT			CONTRACT NO. 74664	



SIGN LEGEND	
	M1-1-36
	M3-4-3015
	M4-8-3015
	M6-3(O)-3018
	M6-2R(O)-3018
	M5-1R(O)-3018
	M4-8a-3024
	M4-9L-3024
	E5-2a(O)-4836
	M4-10R(O)-4818
	R11-2-4830

GENERAL NOTES
 ALL TRAFFIC CONTROL DEVICES SHALL BE FURNISHED, ERECTED AND MAINTAINED BY THE CONTRACTOR.
 ALL SIGNS NOT ATTACHED TO BARRICADES SHALL BE POST MOUNTED UNLESS NOTED OTHERWISE.
 LOCATIONS OF TRAFFIC CONTROL DEVICES SHALL BE DETERMINED BY THE ENGINEER.
 SEE DETOUR SIGNING SPECIAL PROVISION.

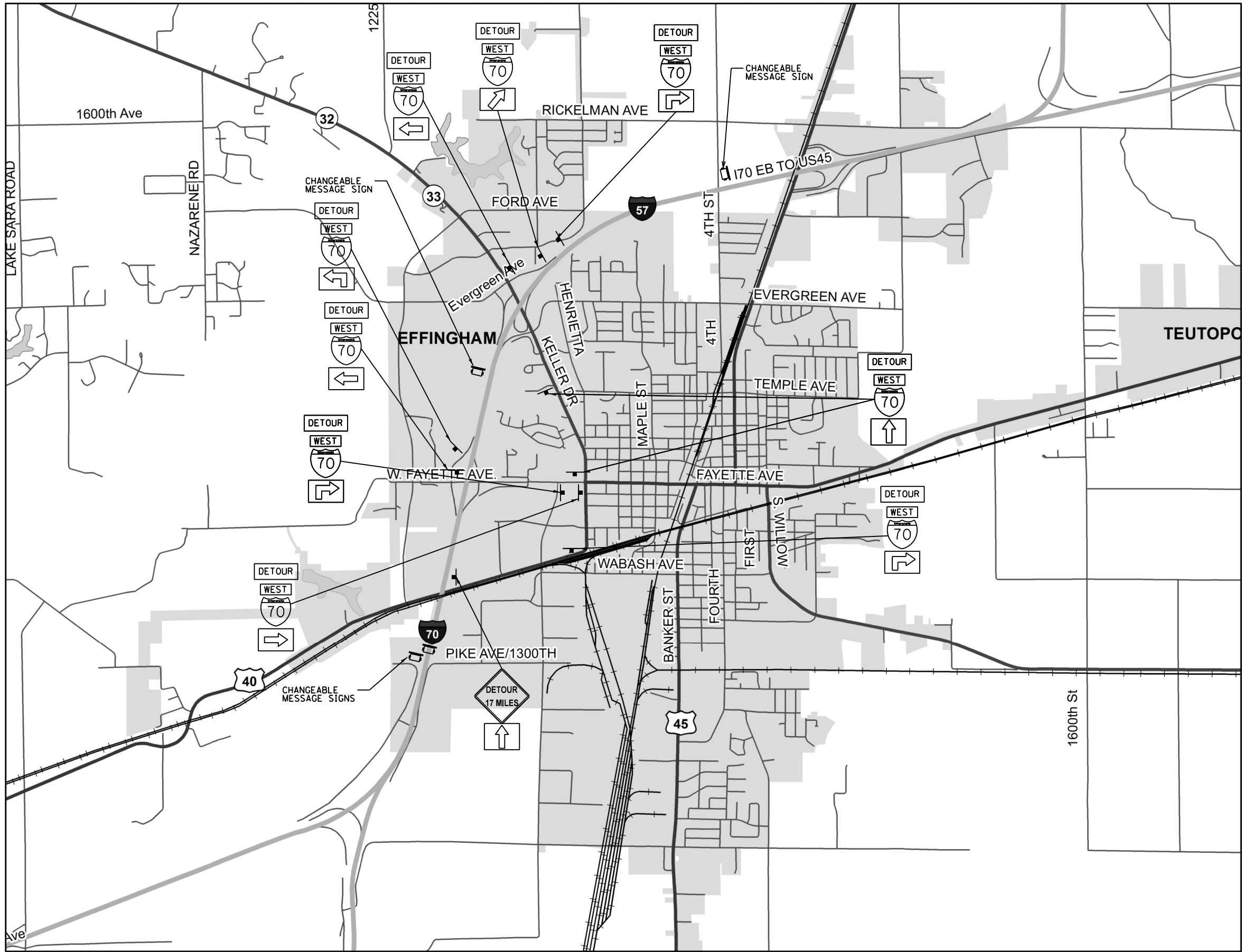
DRUMS WITH STEADY BURN WARNING LIGHTS SHALL BE PLACED THROUGH OUT THE LENGTH OF THE EXIT TERMINAL AS DIRECTED BY THE ENGINEER SEE STANDARD 701451

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Default	PLOT DATE = 8/25/2017	DATE -	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

DETOUR SIGNING			
SCALE: N/A	SHEET	OF SHEETS	STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	(25-1,2)R	EFFINGHAM	424	118
CONTRACT NO. 74664				
ILLINOIS FED. AID PROJECT				



GENERAL NOTES

ALL TRAFFIC CONTROL DEVICES SHALL BE FURNISHED, ERECTED AND MAINTAINED BY THE CONTRACTOR.
 ALL SIGNS NOT ATTACHED TO BARRICADES SHALL BE POST MOUNTED UNLESS NOTED OTHERWISE.
 LOCATIONS OF TRAFFIC CONTROL DEVICES SHALL BE DETERMINED BY THE ENGINEER.
 SEE DETOUR SIGNING SPECIAL PROVISION.

SIGN LEGEND	
	M1-1-36
	M3-4-3015
	M4-8-3015
	W-20-2-48
	M6-3(O)-3018
	M6-2R(O)-3018
	M5-1L(O)-3018
	M5-1R(O)-3018
	M6-2L(O)-3018
	M6-2R(O)-3018

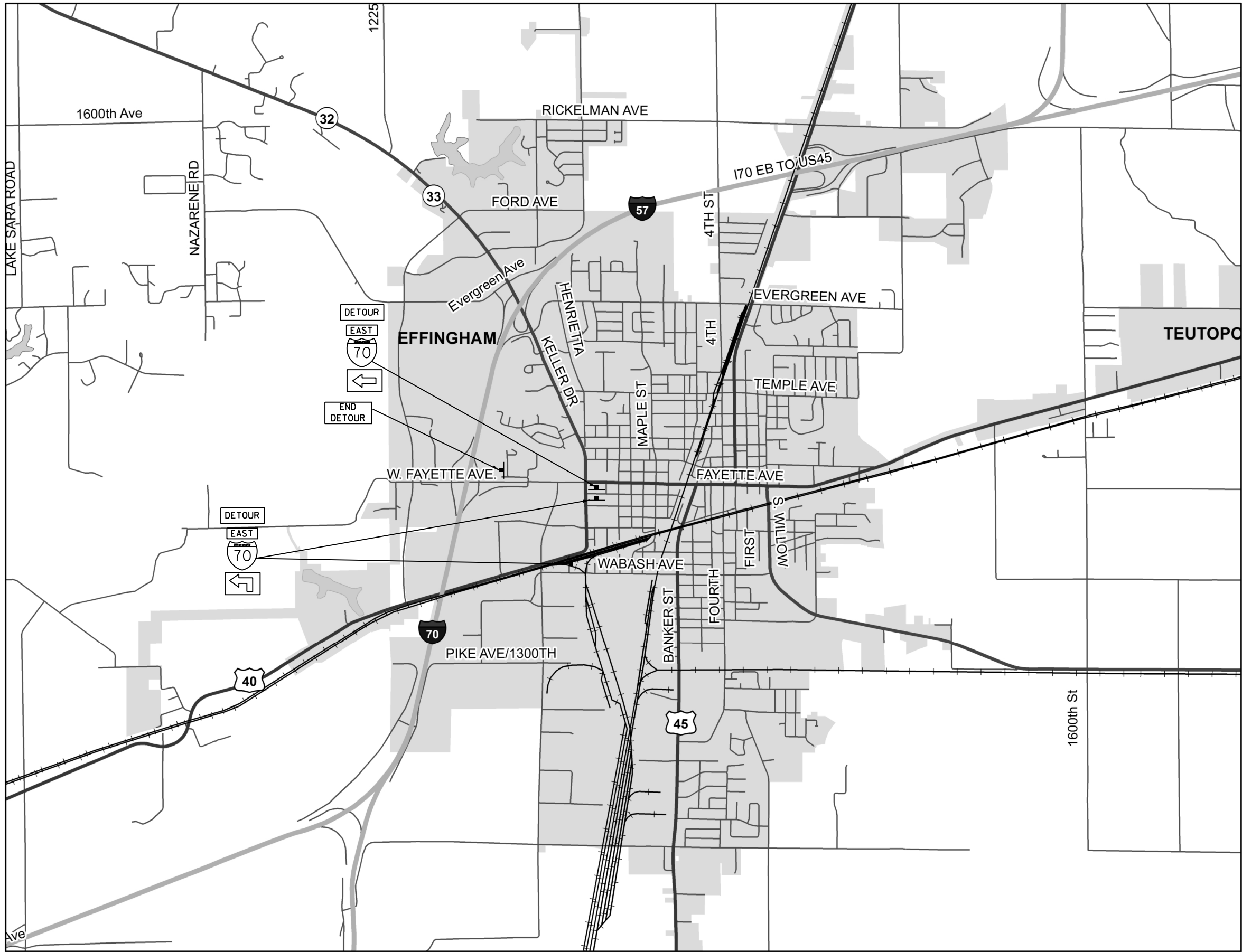
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Default	PLOT DATE = 8/25/2017	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

DETOUR SIGNING

SCALE: N/A SHEET OF SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	(25-1,2)R	EFFINGHAM	424	119
CONTRACT NO. 74664			ILLINOIS FED. AID PROJECT	



GENERAL NOTES

ALL TRAFFIC CONTROL DEVICES SHALL BE FURNISHED, ERECTED AND MAINTAINED BY THE CONTRACTOR.
 ALL SIGNS NOT ATTACHED TO BARRICADES SHALL BE POST MOUNTED UNLESS NOTED OTHERWISE.
 LOCATIONS OF TRAFFIC CONTROL DEVICES SHALL BE DETERMINED BY THE ENGINEER.
 SEE DETOUR SIGNING SPECIAL PROVISION.

SIGN LEGEND

	M1-1-36
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	M4-8-3015
	M5-1L(O)-3018
	M4-8a-3024
	M6-2L(O)-3018

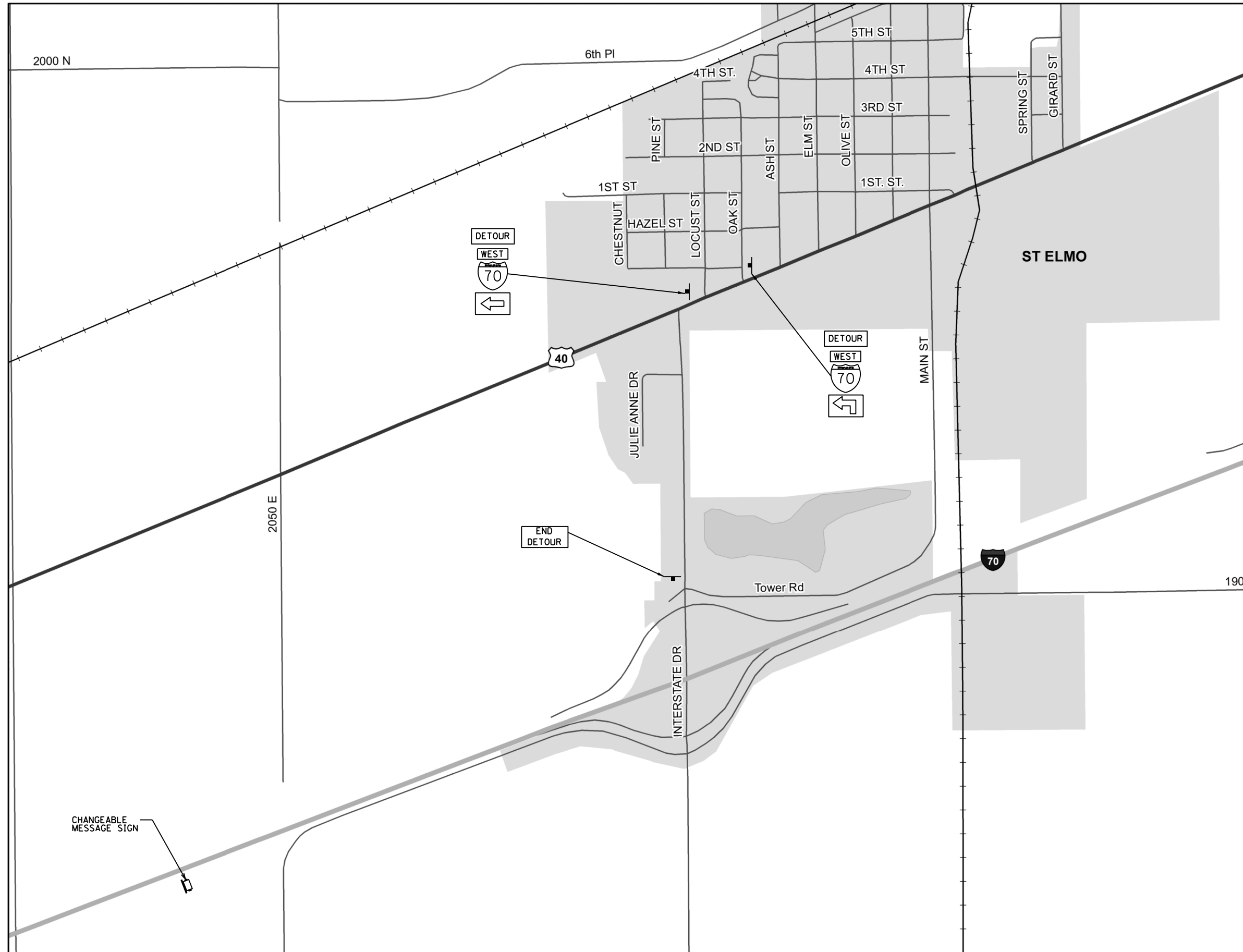
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	PLOT DATE = 8/25/2017	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

DETOUR SIGNING

SCALE: N/A SHEET OF SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	(25-1,2)R	EFFINGHAM	424	120
CONTRACT NO. 74664			ILLINOIS FED. AID PROJECT	



GENERAL NOTES

ALL TRAFFIC CONTROL DEVICES SHALL BE FURNISHED, ERECTED AND MAINTAINED BY THE CONTRACTOR.
 ALL SIGNS NOT ATTACHED TO BARRICADES SHALL BE POST MOUNTED UNLESS NOTED OTHERWISE.
 LOCATIONS OF TRAFFIC CONTROL DEVICES SHALL BE DETERMINED BY THE ENGINEER.
 SEE DETOUR SIGNING SPECIAL PROVISION.

SIGN LEGEND

	M1-1-36
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	M4-8-3015
	M5-1L(O)-3018
	M4-8a-3024
	M6-2L(O)-3018

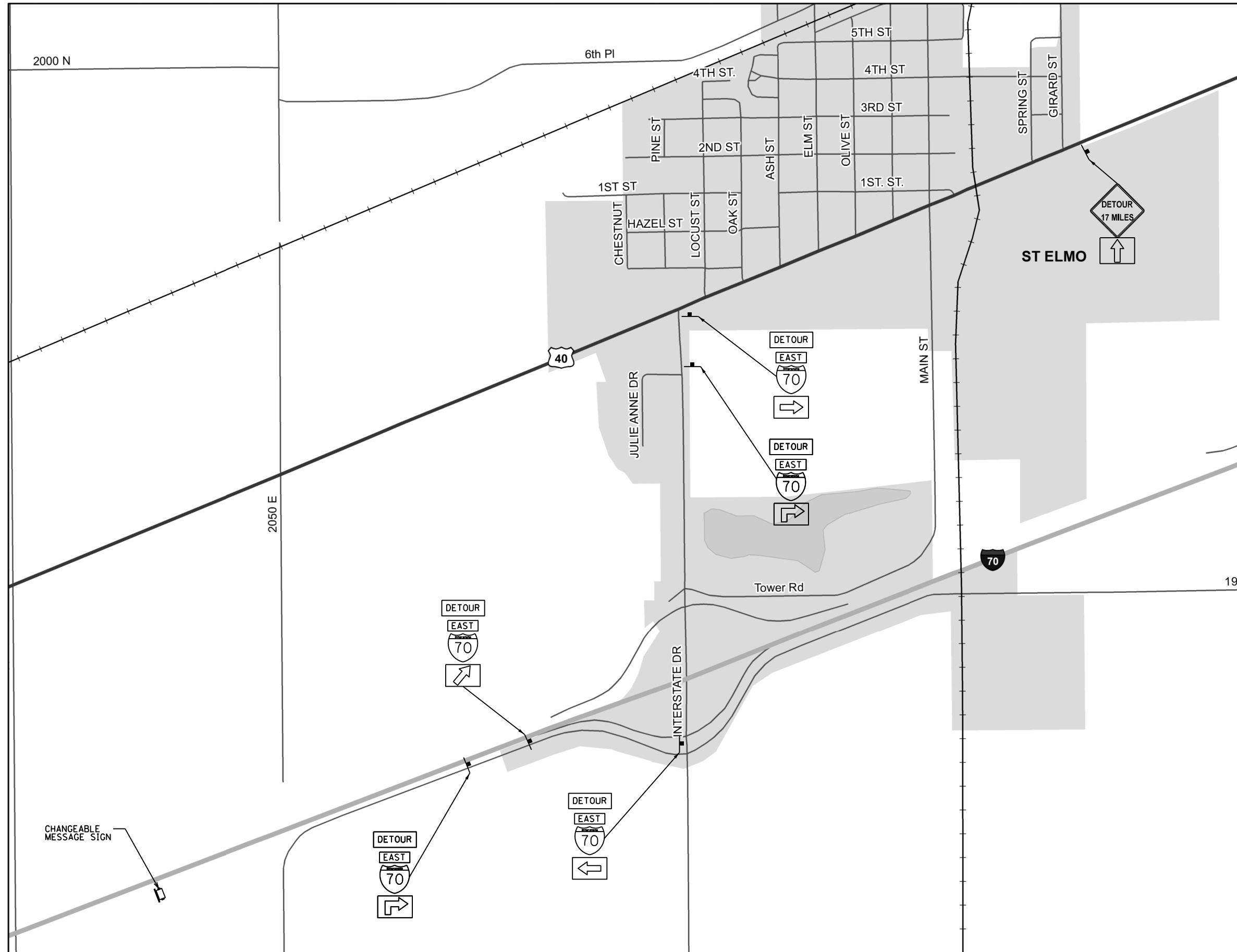
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

DETOUR SIGNING

SCALE: N/A	SHEET	OF	SHEETS	STA.	TO	STA.
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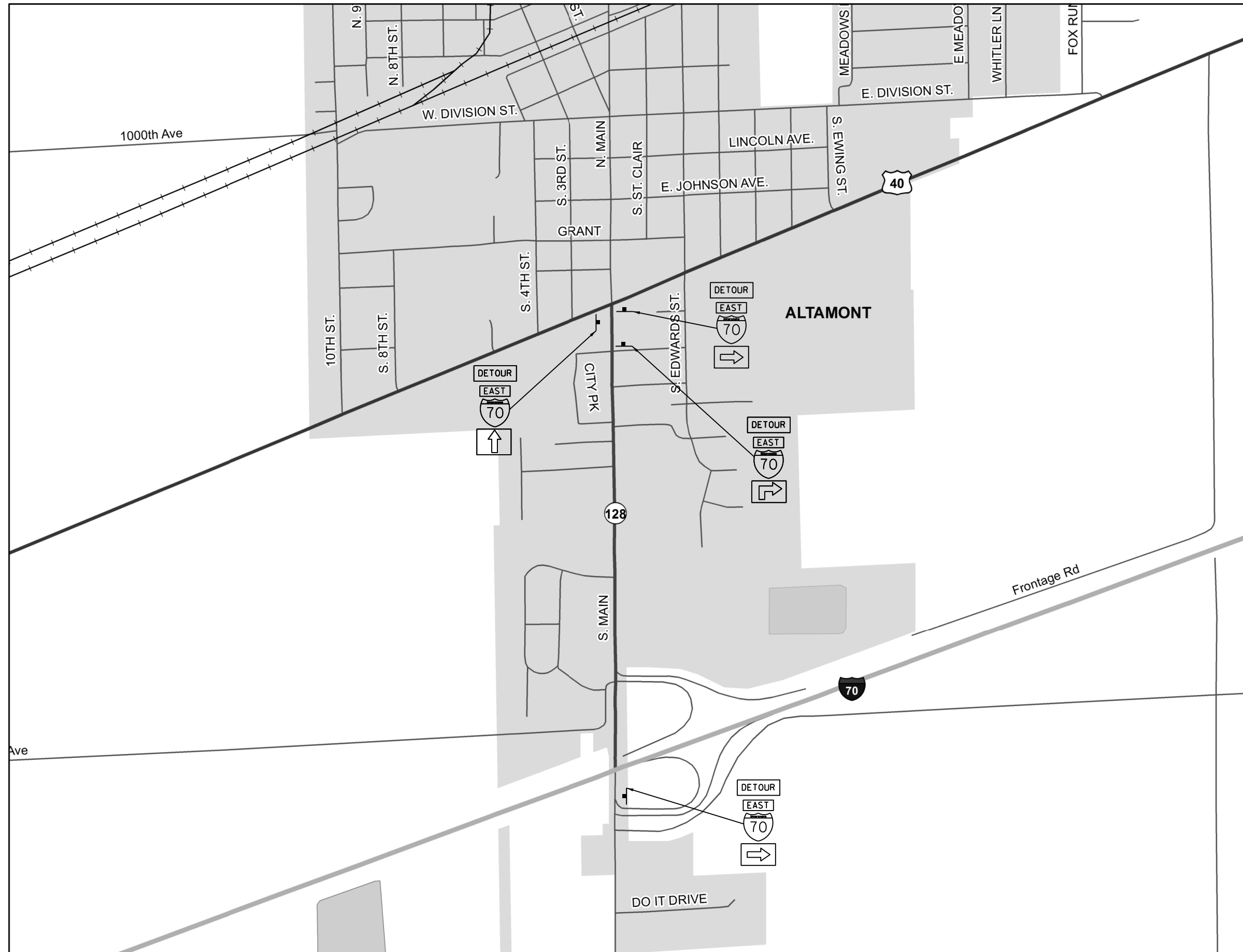
F.A.I. R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	(25-1,2)R	EFFINGHAM	424	121
CONTRACT NO. 74664			ILLINOIS FED. AID PROJECT	



GENERAL NOTES

ALL TRAFFIC CONTROL DEVICES SHALL BE FURNISHED, ERECTED AND MAINTAINED BY THE CONTRACTOR.
 ALL SIGNS NOT ATTACHED TO BARRICADES SHALL BE POST MOUNTED UNLESS NOTED OTHERWISE.
 LOCATIONS OF TRAFFIC CONTROL DEVICES SHALL BE DETERMINED BY THE ENGINEER.
 SEE DETOUR SIGNING SPECIAL PROVISION.

SIGN LEGEND	
	M1-1-36
	M3-2-3015
	M4-8-3015
	W-20-2-48
	M6-3(0)-3018
	M6-2R(0)-3018
	M6-2L(0)-3018
	M6-2R(0)-3018
	M5-1R(0)-3018



GENERAL NOTES

ALL TRAFFIC CONTROL DEVICES SHALL BE FURNISHED, ERECTED AND MAINTAINED BY THE CONTRACTOR.

ALL SIGNS NOT ATTACHED TO BARRICADES SHALL BE POST MOUNTED UNLESS NOTED OTHERWISE.

LOCATIONS OF TRAFFIC CONTROL DEVICES SHALL BE DETERMINED BY THE ENGINEER.

SEE DETOUR SIGNING SPECIAL PROVISION.

SIGN LEGEND	
	M1-1-36
	M3-2-3015
	M4-8-3015
	M6-3(O)-3018
	M6-2R(O)-3018

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

DETOUR SIGNING			
SCALE:	SHEET	OF SHEETS	STA. TO STA.
N/A			

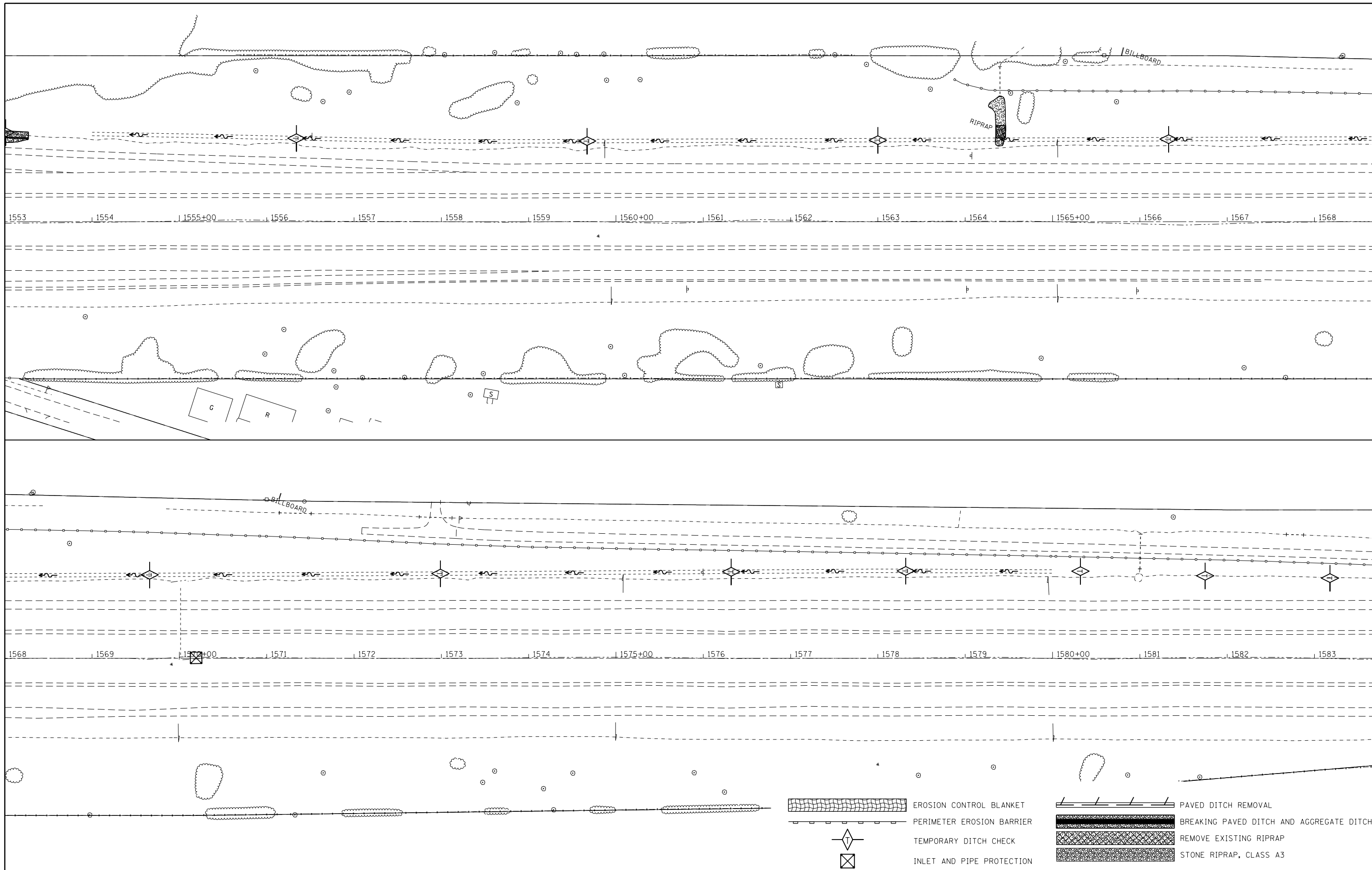
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70	(25-1,2)R	EFFINGHAM	424	123
CONTRACT NO. 74664				
ILLINOIS FED. AID PROJECT				

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	PLOT DATE = 8/25/2017	DATE -	REVISED -		ILLINOIS FED. AID PROJECT							

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	PLOT DATE = 8/25/2017	DATE -	REVISED -		ILLINOIS FED. AID PROJECT							



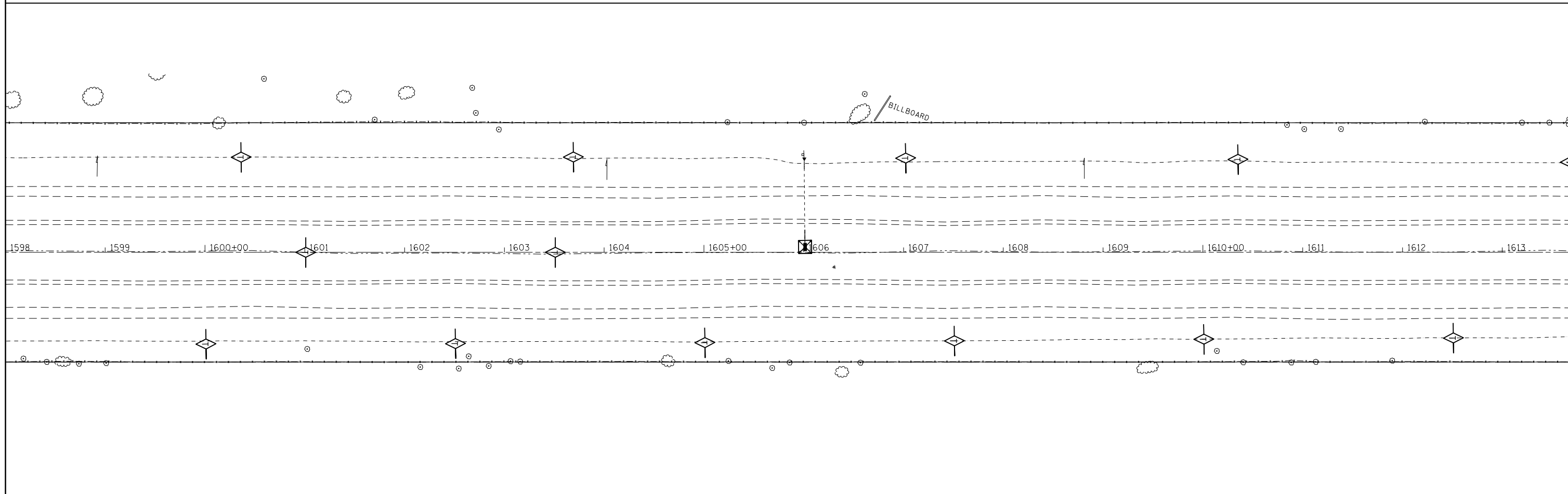
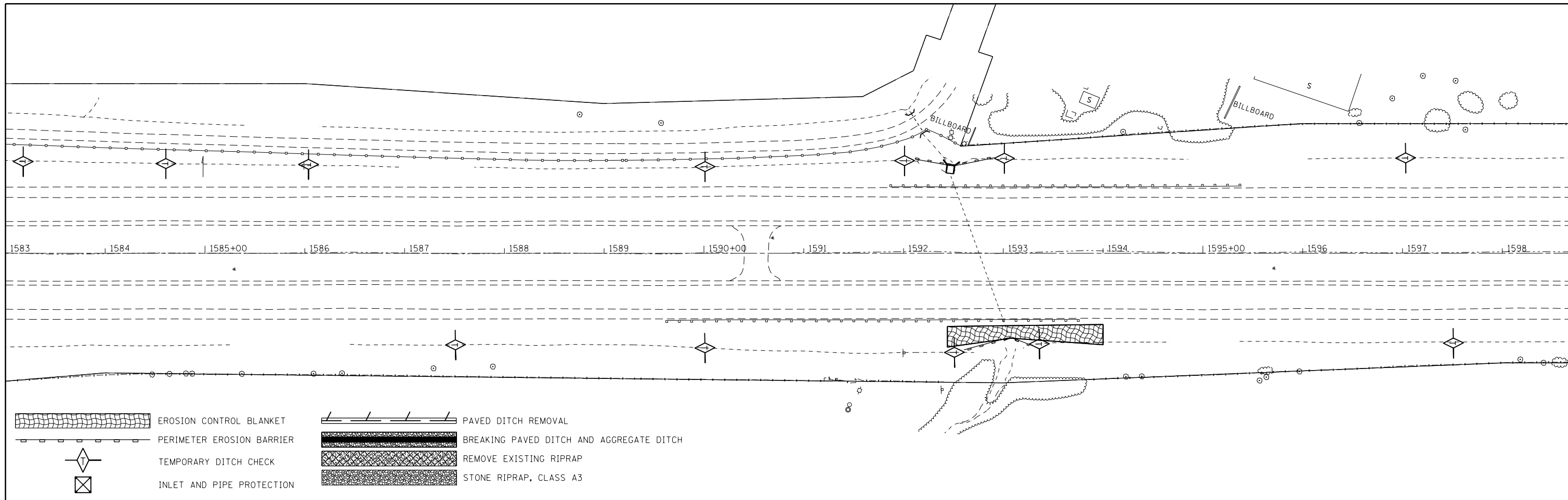
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Default	PLOT DATE = 8/25/2017	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

EROSION CONTROL PLAN

SCALE: SHEET 1 OF 20 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	(25-1,2)R	EFFINGHAM	424	126
				CONTRACT NO. 74664
ILLINOIS FED. AID PROJECT				



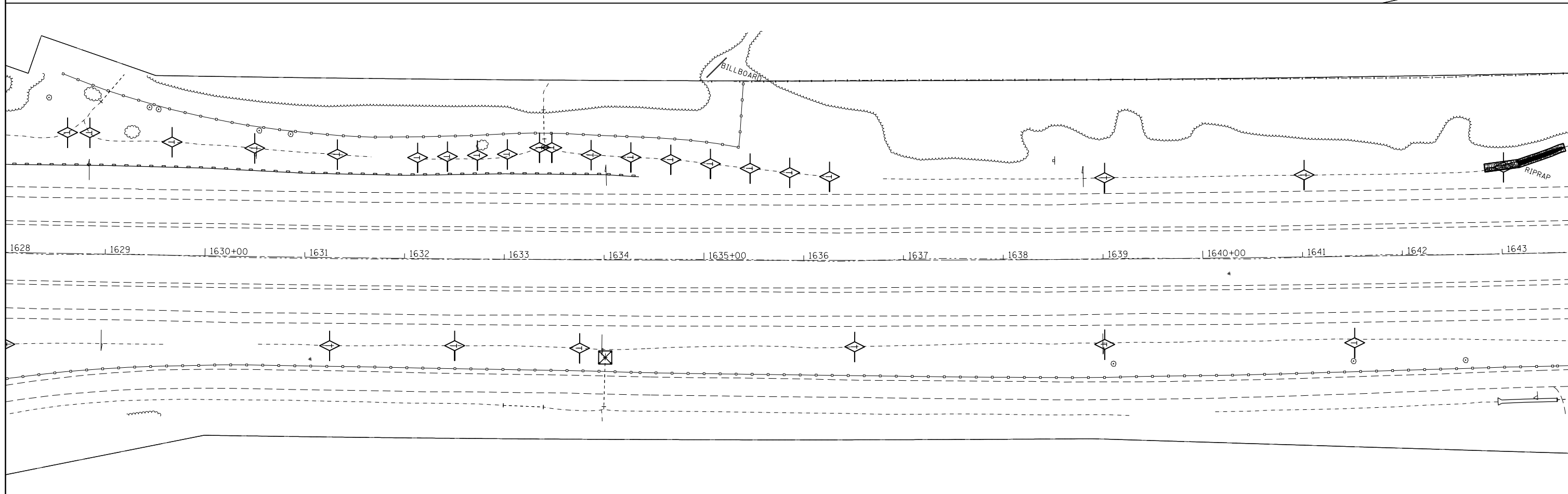
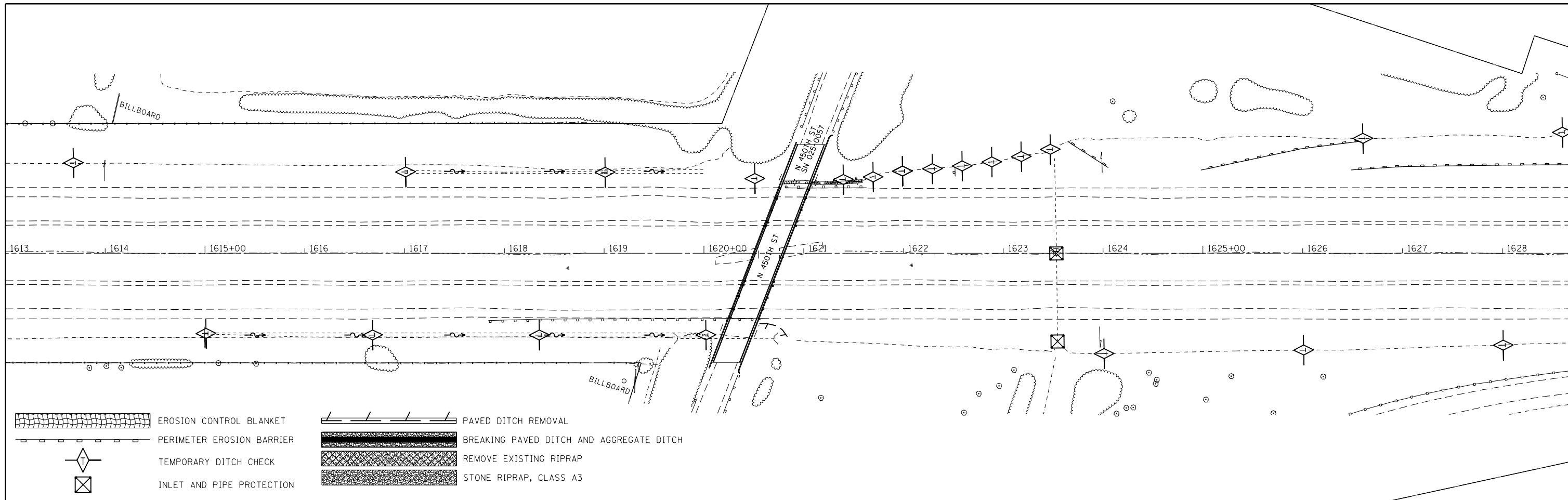
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**


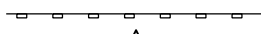


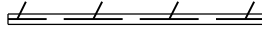



EROSION CONTROL PLAN

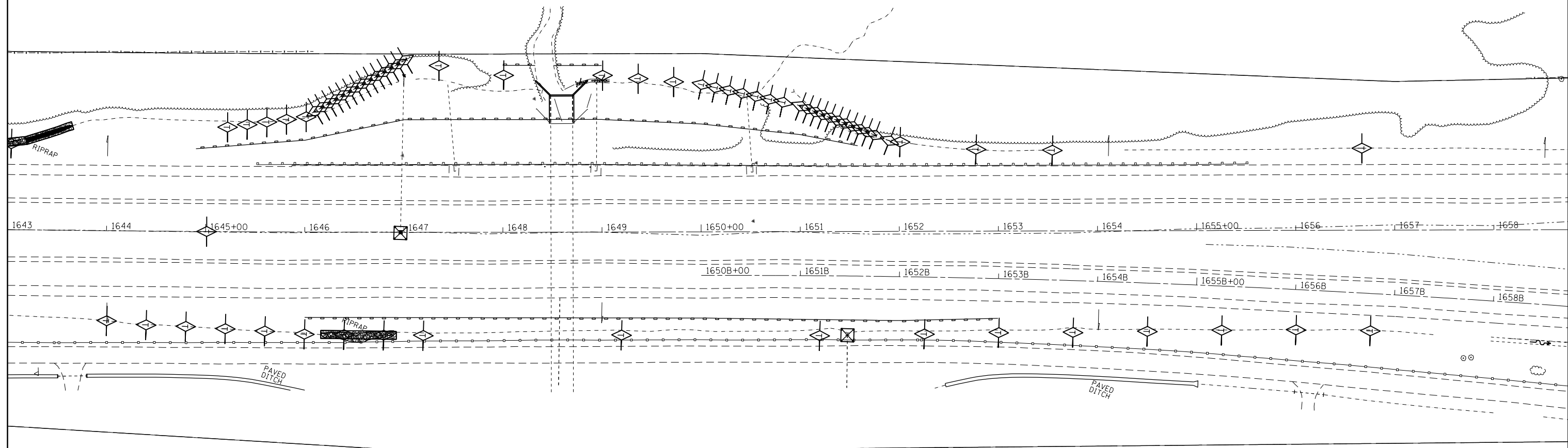
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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	(25-1,2)R	EFFINGHAM	424	127
CONTRACT NO. 74664			ILLINOIS FED. AID PROJECT	



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Default	PLOT SCALE = 100.0000' / in.	DATE -	REVISED -		SCALE: SHEET 3 OF 20 SHEETS STA. TO STA.			CONTRACT NO. 74664				
	PLOT DATE = 8/25/2017		REVISED -					ILLINOIS FED. AID PROJECT				

-  EROSION CONTROL BLANKET
-  PERIMETER EROSION BARRIER
-  TEMPORARY DITCH CHECK
-  INLET AND PIPE PROTECTION
-  PAVED DITCH REMOVAL
-  BREAKING PAVED DITCH AND AGGREGATE DITCH
-  REMOVE EXISTING RIPRAP
-  STONE RIPRAP, CLASS A3




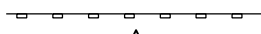


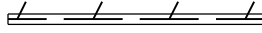



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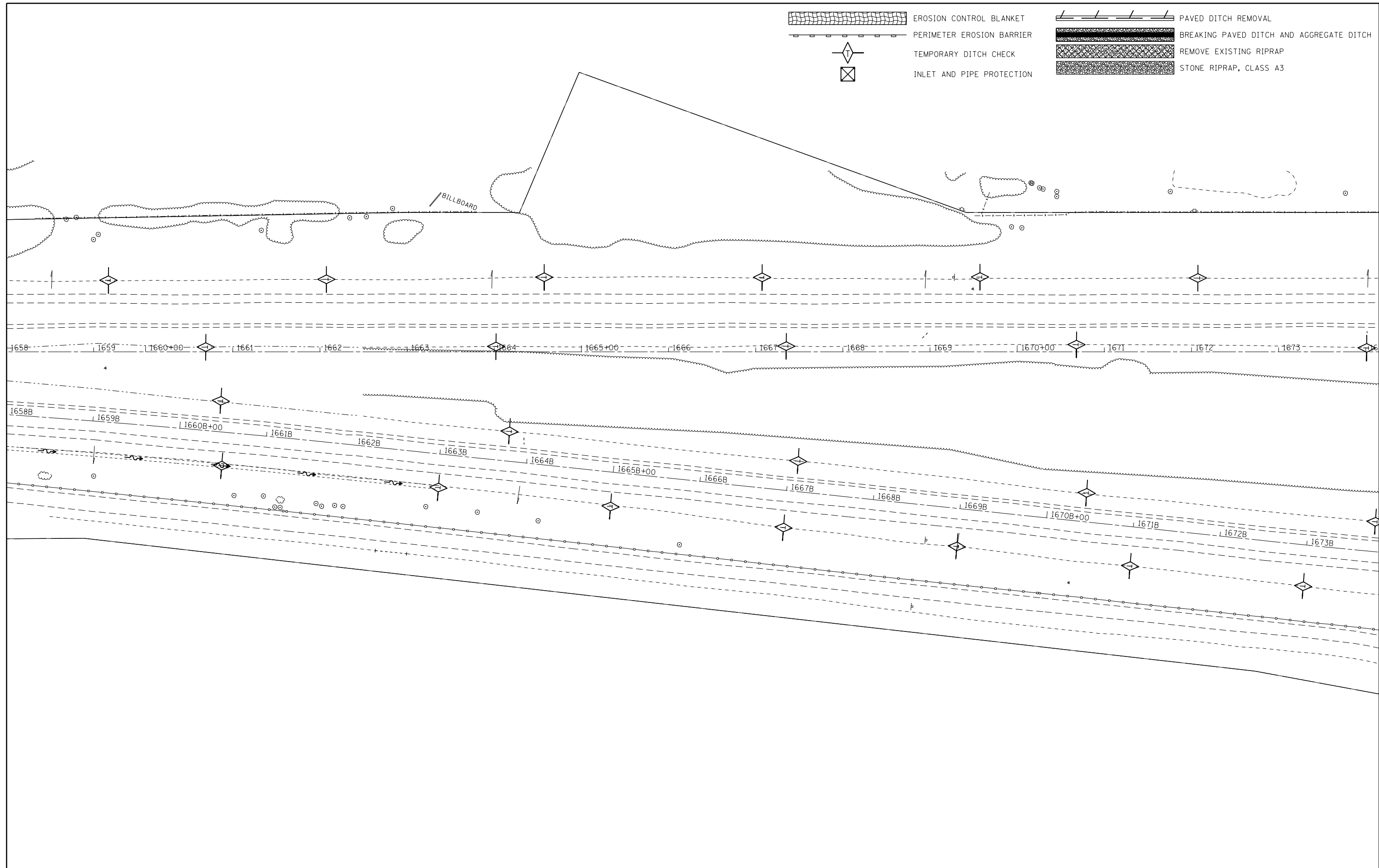
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

EROSION CONTROL PLAN


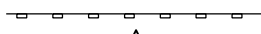


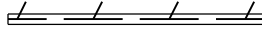



SCALE: SHEET 4 OF 20 SHEETS STA. TO STA.

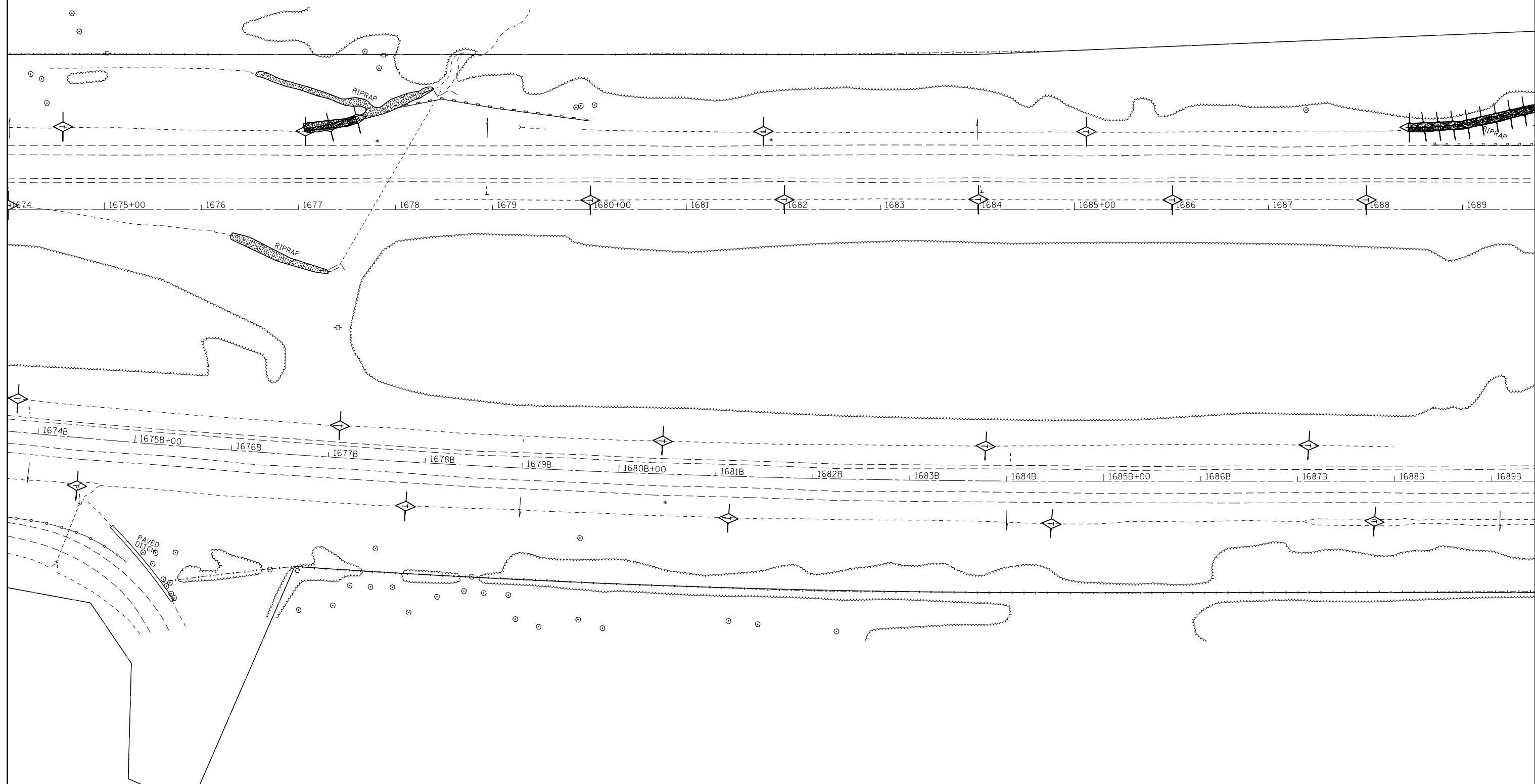
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70	(25-1,2)R	EFFINGHAM	424	129
CONTRACT NO. 74664				
ILLINOIS FED. AID PROJECT				

-  EROSION CONTROL BLANKET
-  PERIMETER EROSION BARRIER
-  TEMPORARY DITCH CHECK
-  INLET AND PIPE PROTECTION
-  PAVED DITCH REMOVAL
-  BREAKING PAVED DITCH AND AGGREGATE DITCH
-  REMOVE EXISTING RIPRAP
-  STONE RIPRAP, CLASS A3


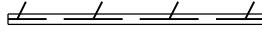
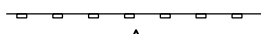







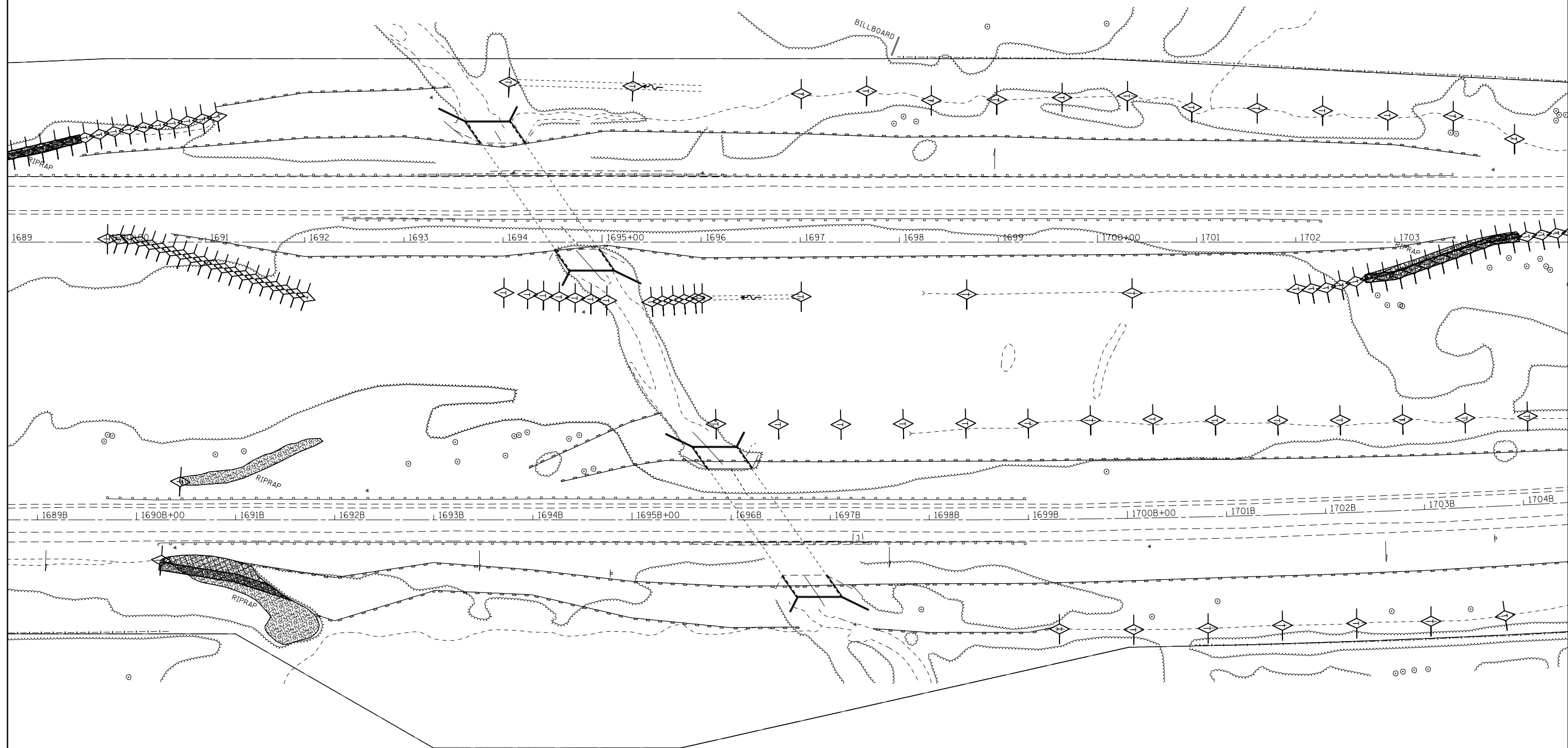
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pw:\IL\084EBIDINTEG\illinois.gov\PIWIDOT\Documents\IDOT Offices\District 7\Projects\74664\Drawings\CAD\Sheets\D774664-sht-eros.dgn		REVISION	REVISION		70	(25-1,2)R	EFFINGHAM	424	130			
Default	PLOT SCALE = 100.0000' / 1in.	CHECKED -	REVISION		SCALE: SHEET 5 OF 20 SHEETS STA. TO STA.			CONTRACT NO. 74664				
	PLOT DATE = 8/25/2017	DATE -	REVISION		ILLINOIS FED. AID PROJECT							

-  EROSION CONTROL BLANKET
-  PERIMETER EROSION BARRIER
-  TEMPORARY DITCH CHECK
-  INLET AND PIPE PROTECTION
-  PAVED DITCH REMOVAL
-  BREAKING PAVED DITCH AND AGGREGATE DITCH
-  REMOVE EXISTING RIPRAP
-  STONE RIPRAP, CLASS A3



FILE NAME =	USER NAME = steffenmk	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EROSION CONTROL PLAN			F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
pw:\IL\084EBIDINTEG\Illinois.gov\PIWIDOT\Documents\IDOT Offices\District 7\Projects\74664\Drawings\CAD\Sheets\D774664-sht-eros.dgn		DRAWN -	REVISED -		70	(25-1,2)R	EFFINGHAM	424	131			
Default	PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED -		SCALE: SHEET 6 OF 20 SHEETS STA. TO STA.			CONTRACT NO. 74664				
	PLOT DATE = 8/25/2017	DATE -	REVISED -		ILLINOIS FED. AID PROJECT							

	EROSION CONTROL BLANKET		PAVED DITCH REMOVAL
	PERIMETER EROSION BARRIER		BREAKING PAVED DITCH AND AGGREGATE DITCH
	TEMPORARY DITCH CHECK		REMOVE EXISTING RIPRAP
	INLET AND PIPE PROTECTION		STONE RIPRAP, CLASS A3




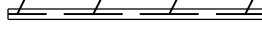

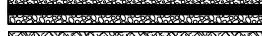




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	PLOT DATE = 8/25/2017	DATE -	REVISED -

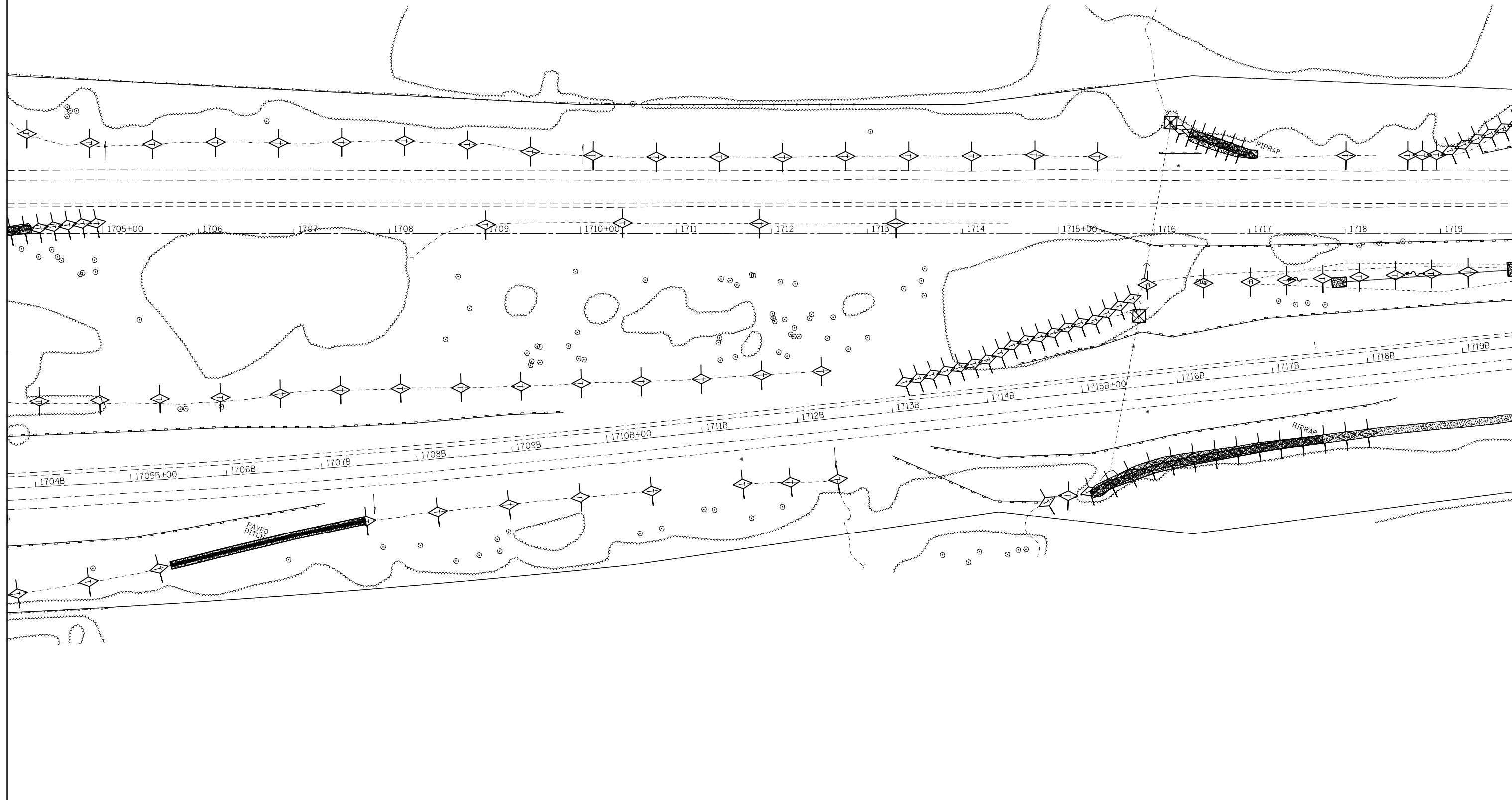
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

EROSION CONTROL PLAN


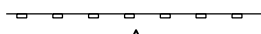


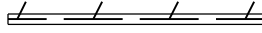



SCALE: SHEET 7 OF 20 SHEETS STA. TO STA.

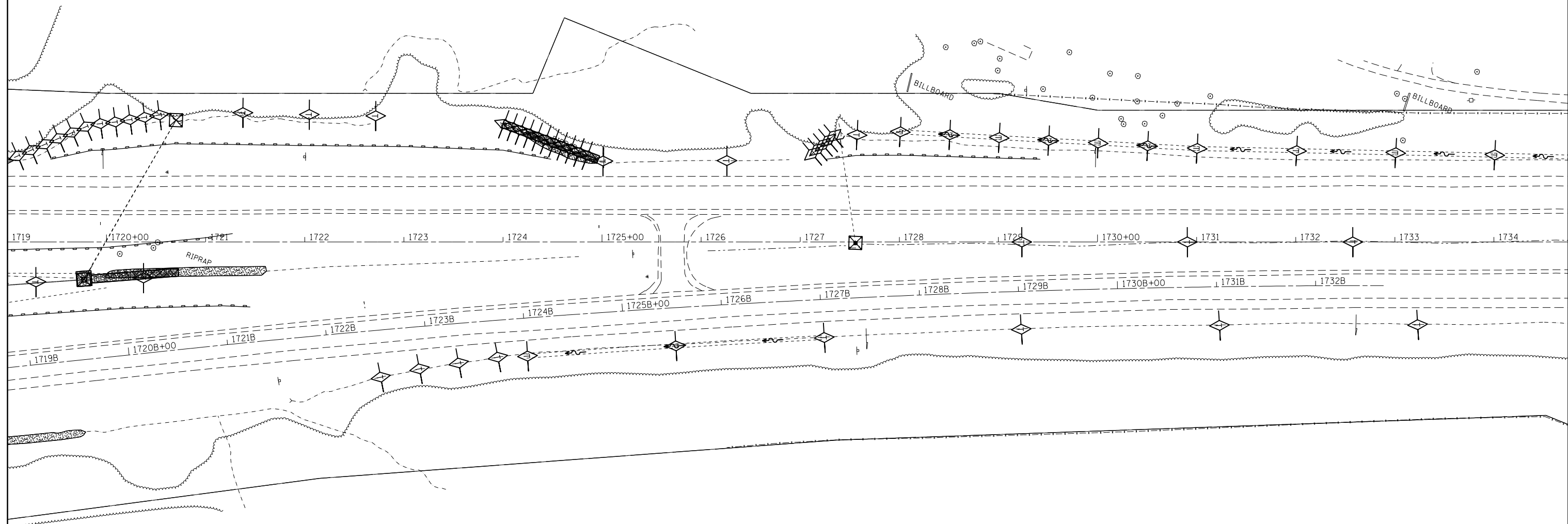
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	(25-1,2)R	EFFINGHAM	424	132
ILLINOIS FED. AID PROJECT			CONTRACT NO. 74664	

	EROSION CONTROL BLANKET		PAVED DITCH REMOVAL
	PERIMETER EROSION BARRIER		BREAKING PAVED DITCH AND AGGREGATE DITCH
	TEMPORARY DITCH CHECK		REMOVE EXISTING RIPRAP
	INLET AND PIPE PROTECTION		STONE RIPRAP, CLASS A3



FILE NAME =	USER NAME = steffenmk	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EROSION CONTROL PLAN		F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
pw:\IL084EBIDINTEG\illinois.gov\PWIDOT\Documents\DOT Offices\District 7\Projects\74664\Drawings\CAD\Drawings\74664-sht-eros.dgn		REVISIONS	REVISED -		SCALE:	SHEET 8 OF 20 SHEETS	STA.	70	(25-1,2)R	EFFINGHAM	424	133
Default	PLOT SCALE = 100.0000' / 1in.	CHECKED -	REVISED -									
	PLOT DATE = 8/25/2017	DATE -	REVISED -									
								CONTRACT NO. 74664		ILLINOIS FED. AID PROJECT		

-  EROSION CONTROL BLANKET
-  PERIMETER EROSION BARRIER
-  TEMPORARY DITCH CHECK
-  INLET AND PIPE PROTECTION
-  PAVED DITCH REMOVAL
-  BREAKING PAVED DITCH AND AGGREGATE DITCH
-  REMOVE EXISTING RIPRAP
-  STONE RIPRAP, CLASS A3

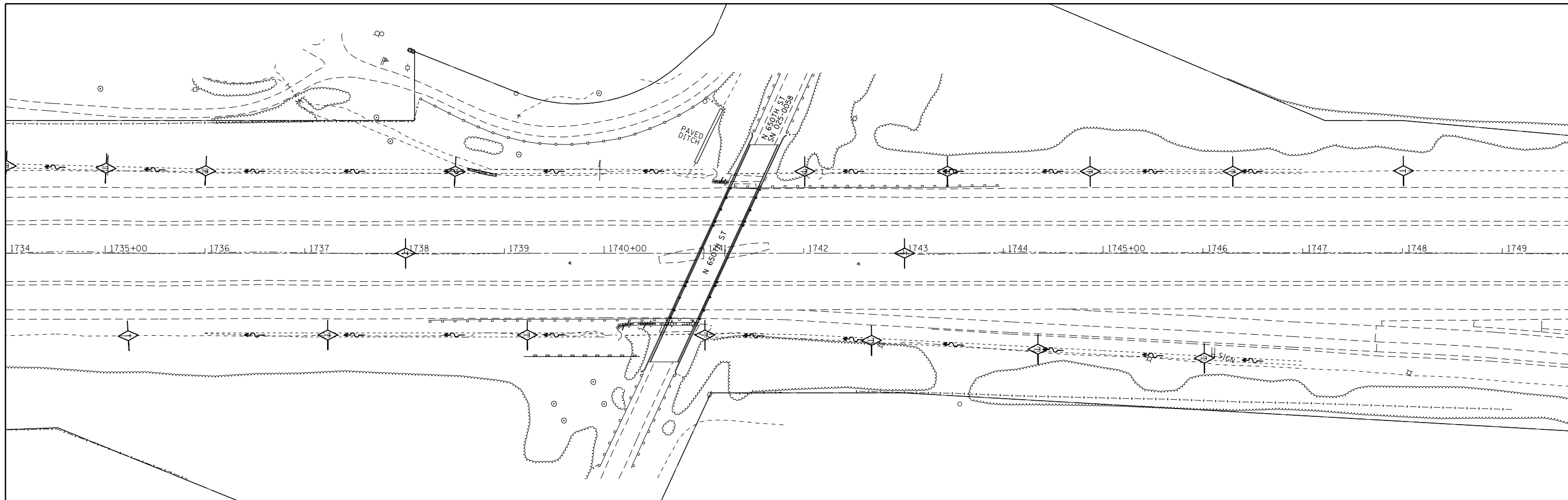


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Default	PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED -
	PLOT DATE = 8/25/2017	DATE -	REVISED -

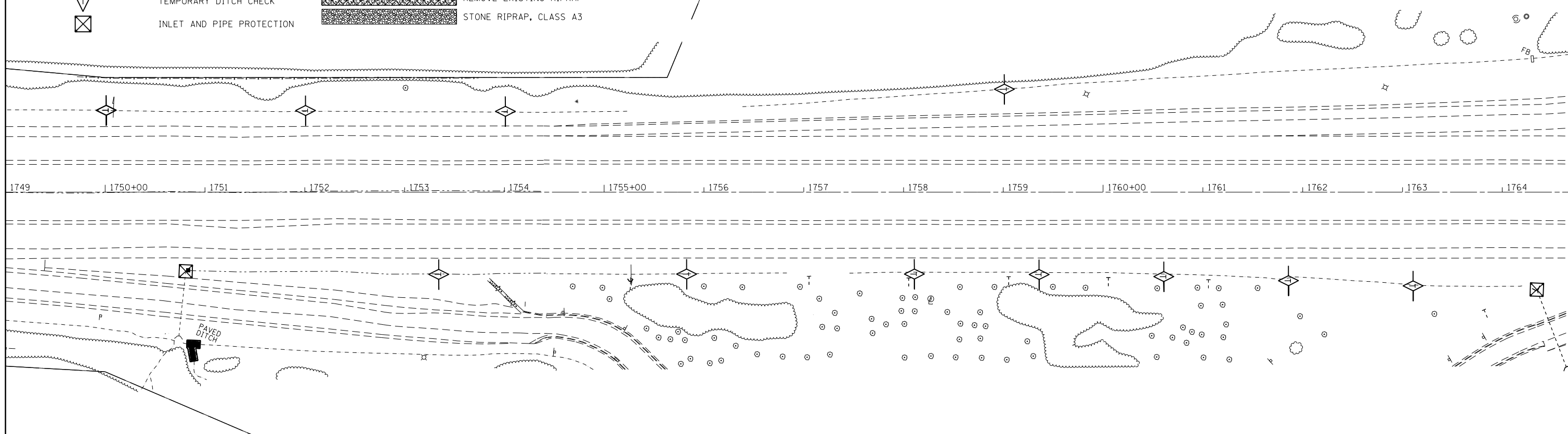
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

EROSION CONTROL PLAN			
SCALE:	SHEET 9	OF 20 SHEETS	STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	(25-1,2)R	EFFINGHAM	424	134
CONTRACT NO. 74664				
ILLINOIS FED. AID PROJECT				



	EROSION CONTROL BLANKET		PAVED DITCH REMOVAL
	PERIMETER EROSION BARRIER		BREAKING PAVED DITCH AND AGGREGATE DITCH
	TEMPORARY DITCH CHECK		REMOVE EXISTING RIPRAP
	INLET AND PIPE PROTECTION		STONE RIPRAP, CLASS A3




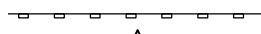


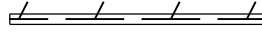



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Default	PLOT DATE = 8/25/2017	DATE -	REVISED -

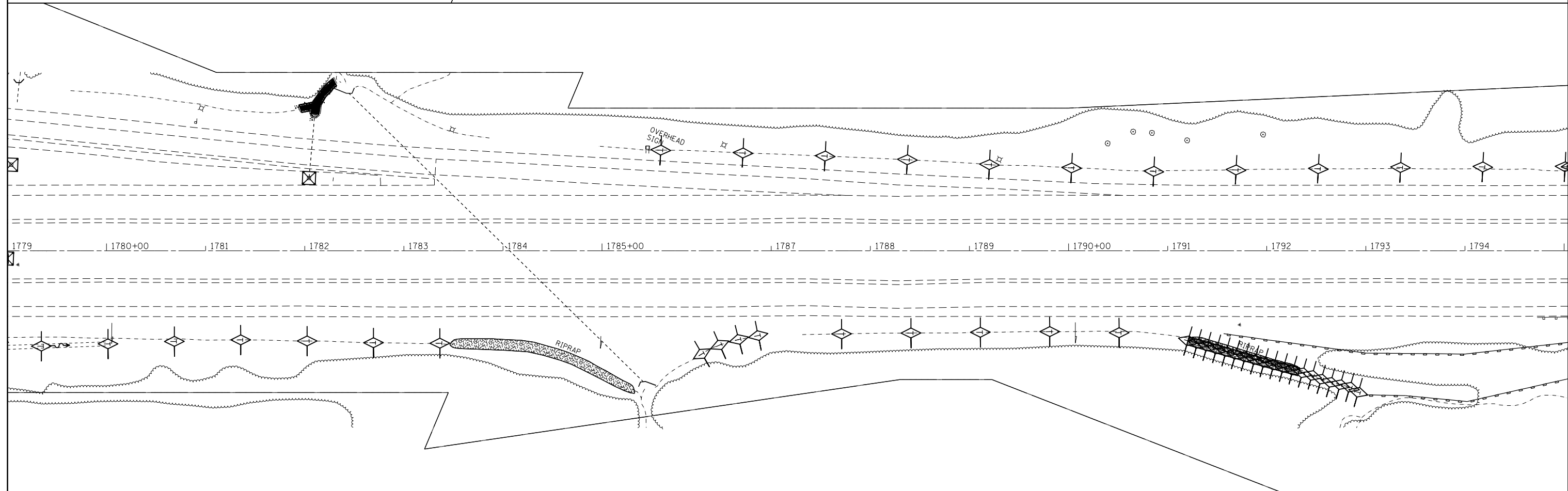
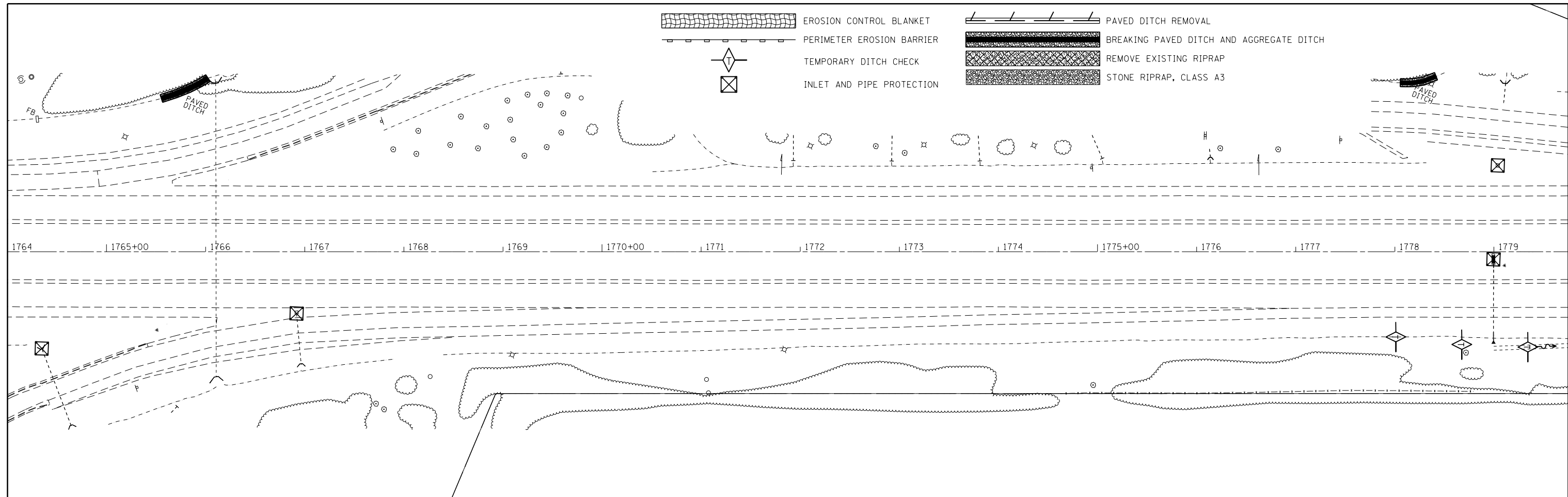
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

EROSION CONTROL PLAN

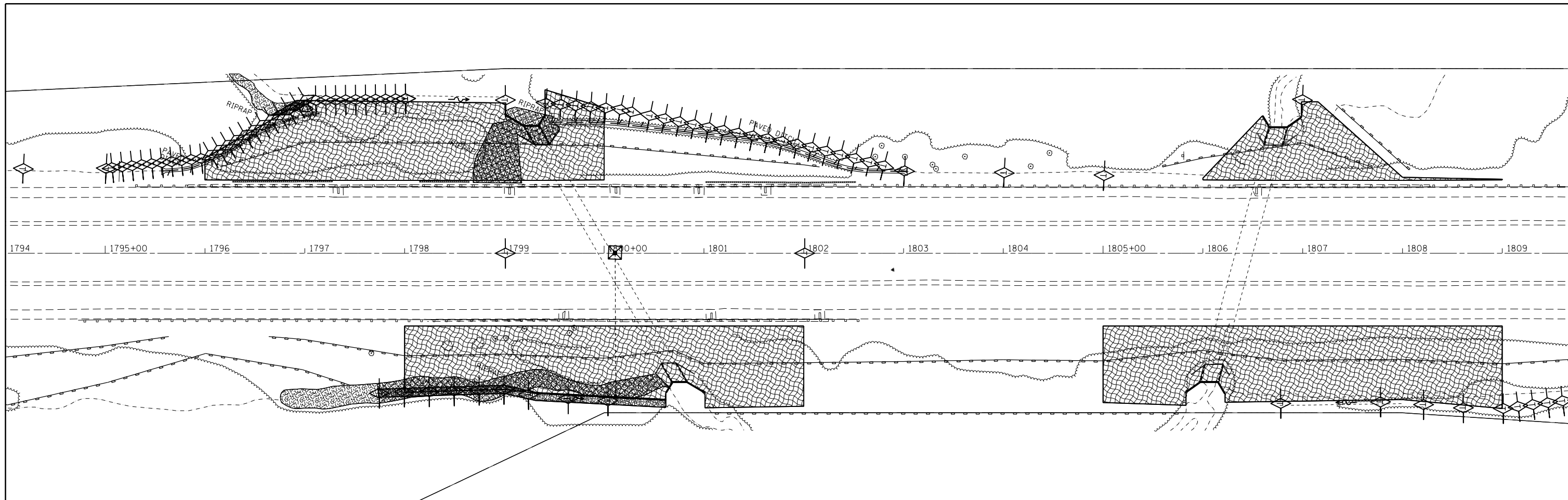
SCALE: SHEET 10 OF 20 SHEETS STA. TO STA.

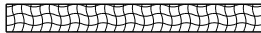
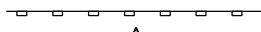



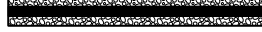


F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	(25-1,2)R	EFFINGHAM	424	135
CONTRACT NO. 74664			ILLINOIS FED. AID PROJECT	

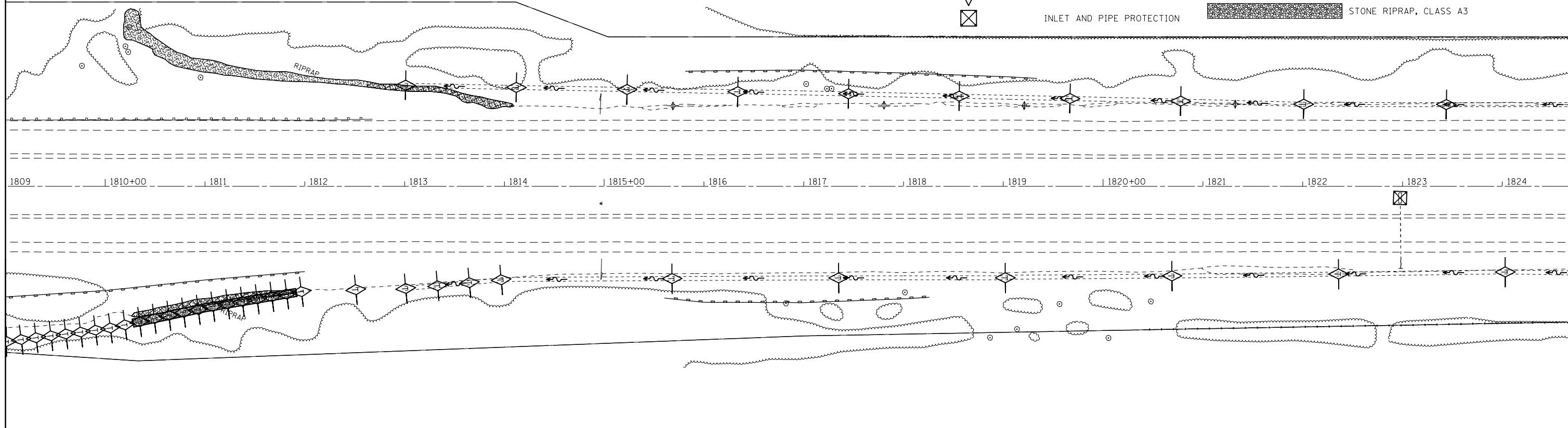
-  EROSION CONTROL BLANKET
-  PERIMETER EROSION BARRIER
-  TEMPORARY DITCH CHECK
-  INLET AND PIPE PROTECTION
-  PAVED DITCH REMOVAL
-  BREAKING PAVED DITCH AND AGGREGATE DITCH
-  REMOVE EXISTING RIPRAP
-  STONE RIPRAP, CLASS A3



FILE NAME =	USER NAME = steffenmk	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EROSION CONTROL PLAN			F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
pw:\IL\084EBIDINTEG\Illinois.gov\PIWIDOT\Documents\IDOT Offices\District 7\Projects\74664\Drawings\CAD\Sheets\D774664-sht-eros.dgn		CHECKED -	REVISED -		70	(25-1,2)R	EFFINGHAM	424	136			
Default	PLOT SCALE = 100.0000' / in.	DATE -	REVISED -		SCALE: SHEET 11 OF 20 SHEETS STA. TO STA.			CONTRACT NO. 74664				
	PLOT DATE = 8/25/2017				ILLINOIS FED. AID PROJECT							



-  EROSION CONTROL BLANKET
-  PERIMETER EROSION BARRIER
-  TEMPORARY DITCH CHECK
-  INLET AND PIPE PROTECTION
-  PAVED DITCH REMOVAL
-  BREAKING PAVED DITCH AND AGGREGATE DITCH
-  REMOVE EXISTING RIPRAP
-  STONE RIPRAP, CLASS A3



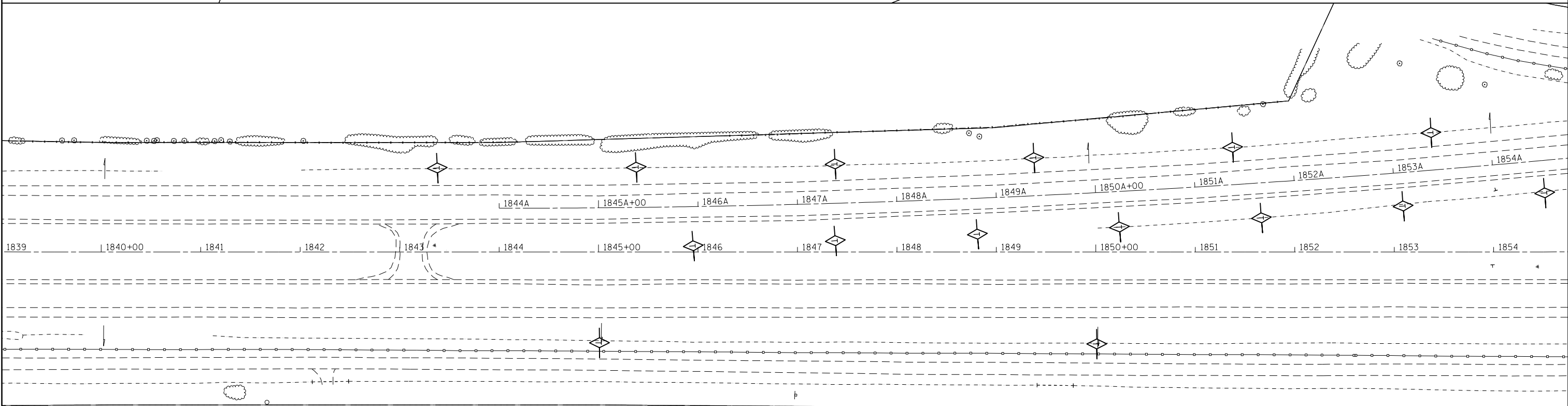
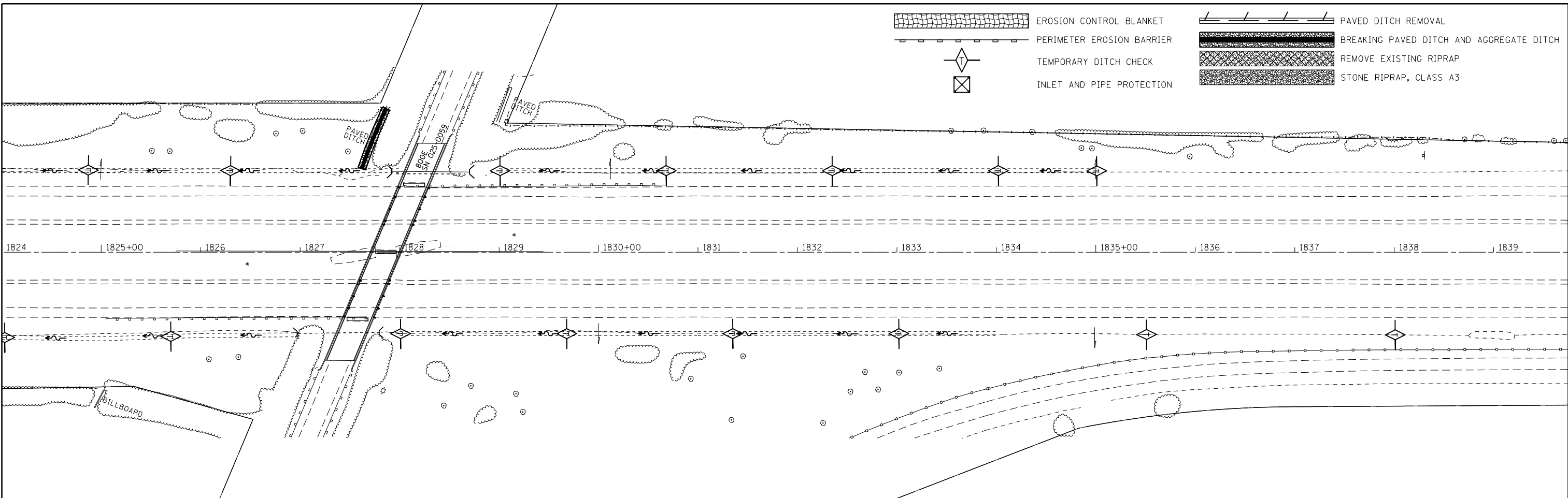
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Default	PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED -
	PLOT DATE = 8/25/2017	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

EROSION CONTROL PLAN

SCALE: SHEET 12 OF 20 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	(25-1,2)R	EFFINGHAM	424	137
CONTRACT NO. 74664				
ILLINOIS FED. AID PROJECT				




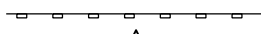


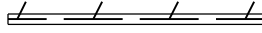



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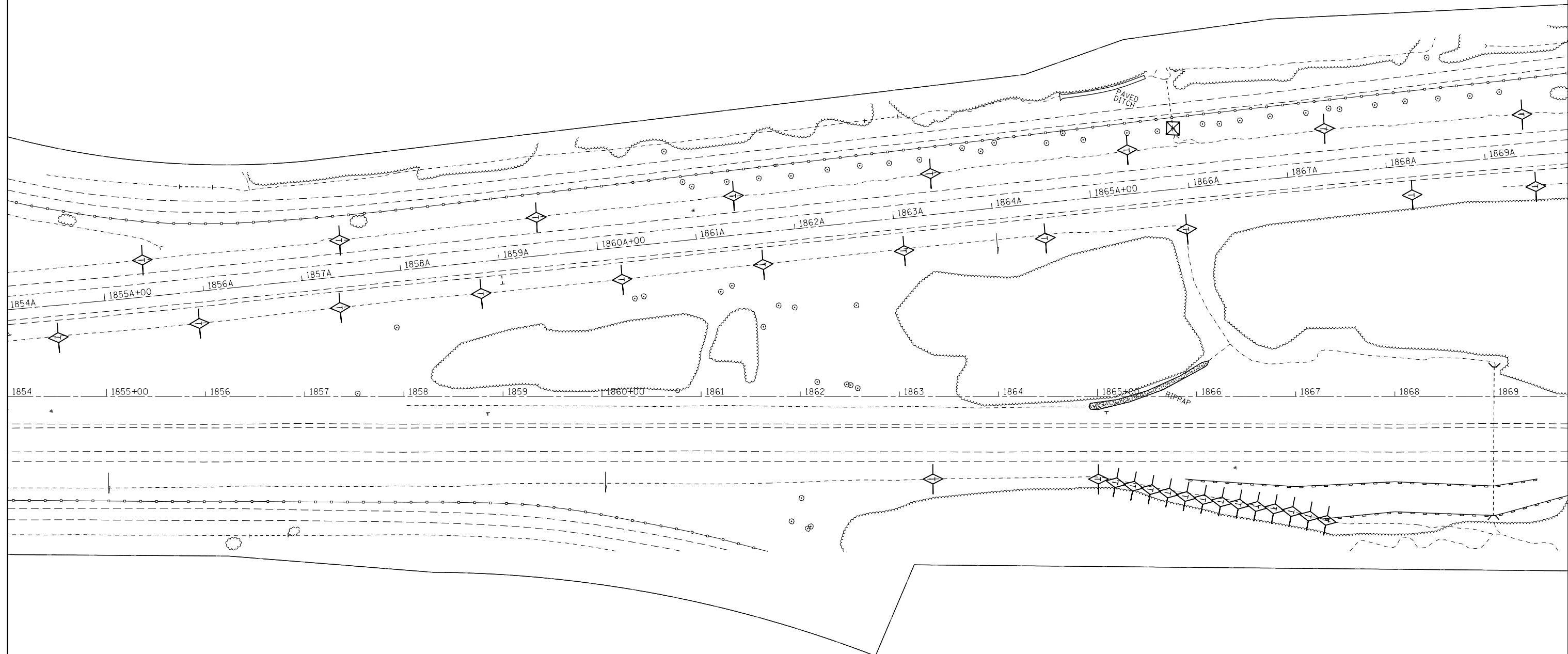
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

EROSION CONTROL PLAN

SCALE: SHEET 13 OF 20 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	(25-1,2)R	EFFINGHAM	424	138
ILLINOIS FED. AID PROJECT			CONTRACT NO. 74664	

-  EROSION CONTROL BLANKET
-  PERIMETER EROSION BARRIER
-  TEMPORARY DITCH CHECK
-  INLET AND PIPE PROTECTION
-  PAVED DITCH REMOVAL
-  BREAKING PAVED DITCH AND AGGREGATE DITCH
-  REMOVE EXISTING RIPRAP
-  STONE RIPRAP, CLASS A3



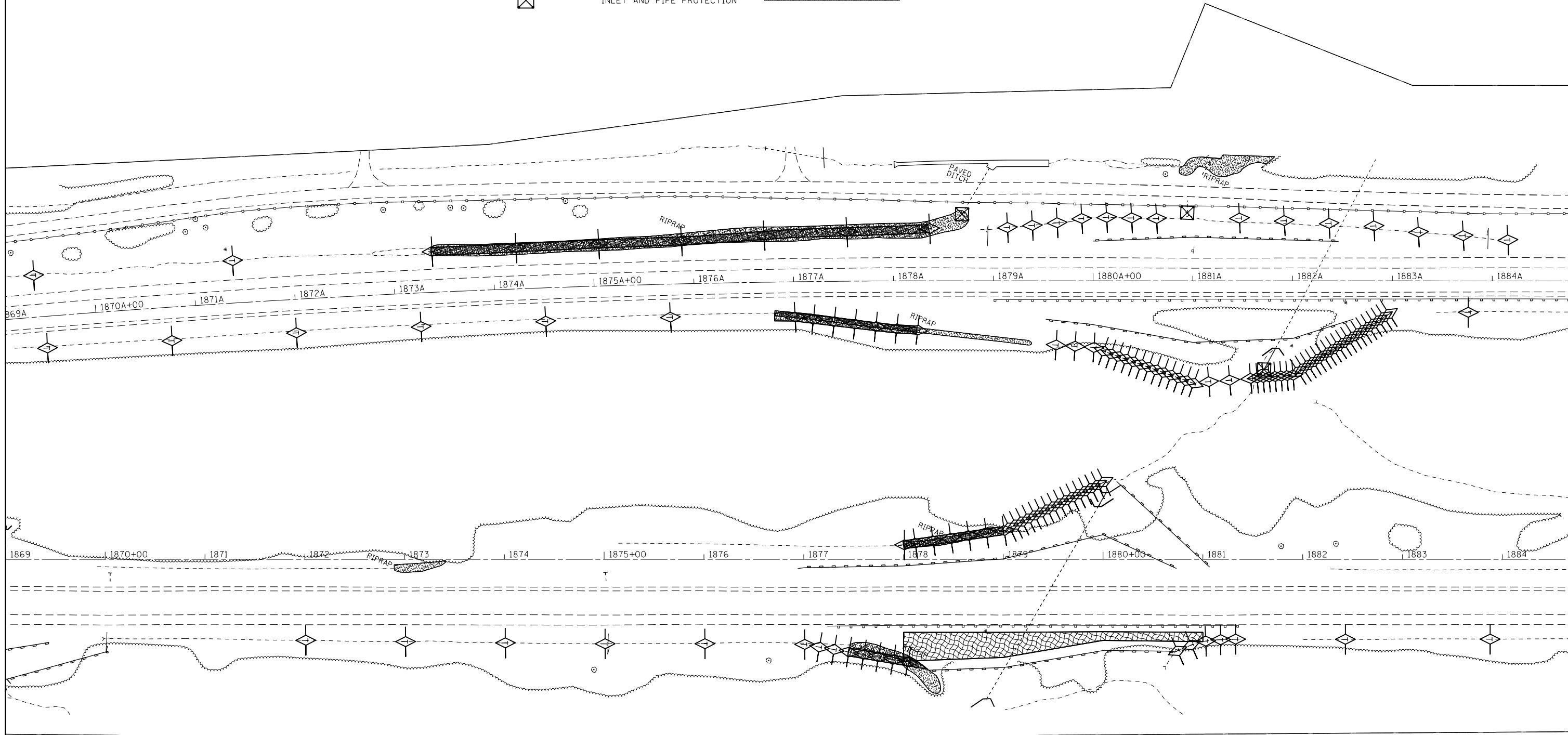
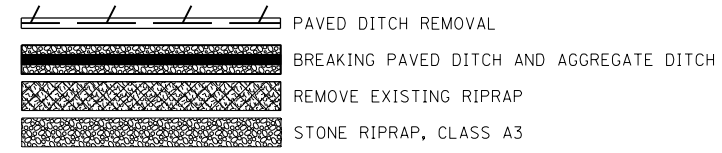
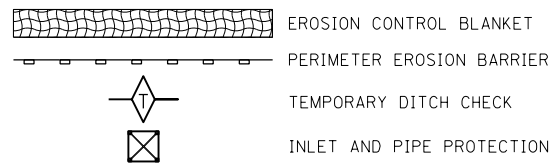
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Default	PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED -
	PLOT DATE = 8/25/2017	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

EROSION CONTROL PLAN

SCALE: SHEET 14 OF 20 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	(25-1,2)R	EFFINGHAM	424	139
CONTRACT NO. 74664			ILLINOIS FED. AID PROJECT	




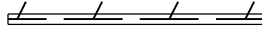
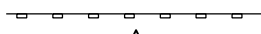





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Default	PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED -
	PLOT DATE = 8/25/2017	DATE -	REVISED -

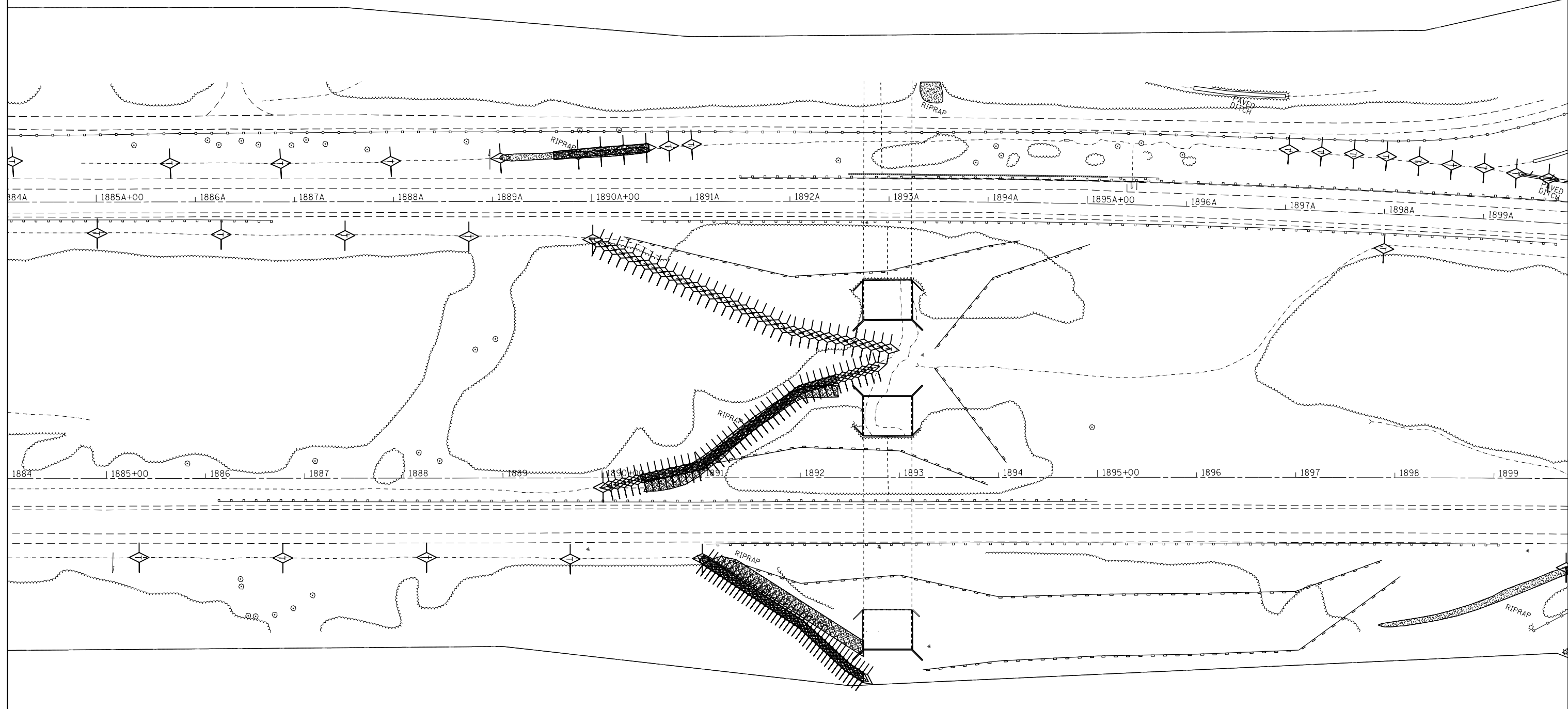
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

EROSION CONTROL PLAN

SCALE: SHEET 15 OF 20 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	(25-1,2)R	EFFINGHAM	424	140
CONTRACT NO. 74664			ILLINOIS FED. AID PROJECT	

	EROSION CONTROL BLANKET		PAVED DITCH REMOVAL
	PERIMETER EROSION BARRIER		BREAKING PAVED DITCH AND AGGREGATE DITCH
	TEMPORARY DITCH CHECK		REMOVE EXISTING RIPRAP
	INLET AND PIPE PROTECTION		STONE RIPRAP, CLASS A3




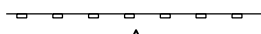


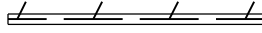



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Default	PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED -
	PLOT DATE = 8/25/2017	DATE -	REVISED -

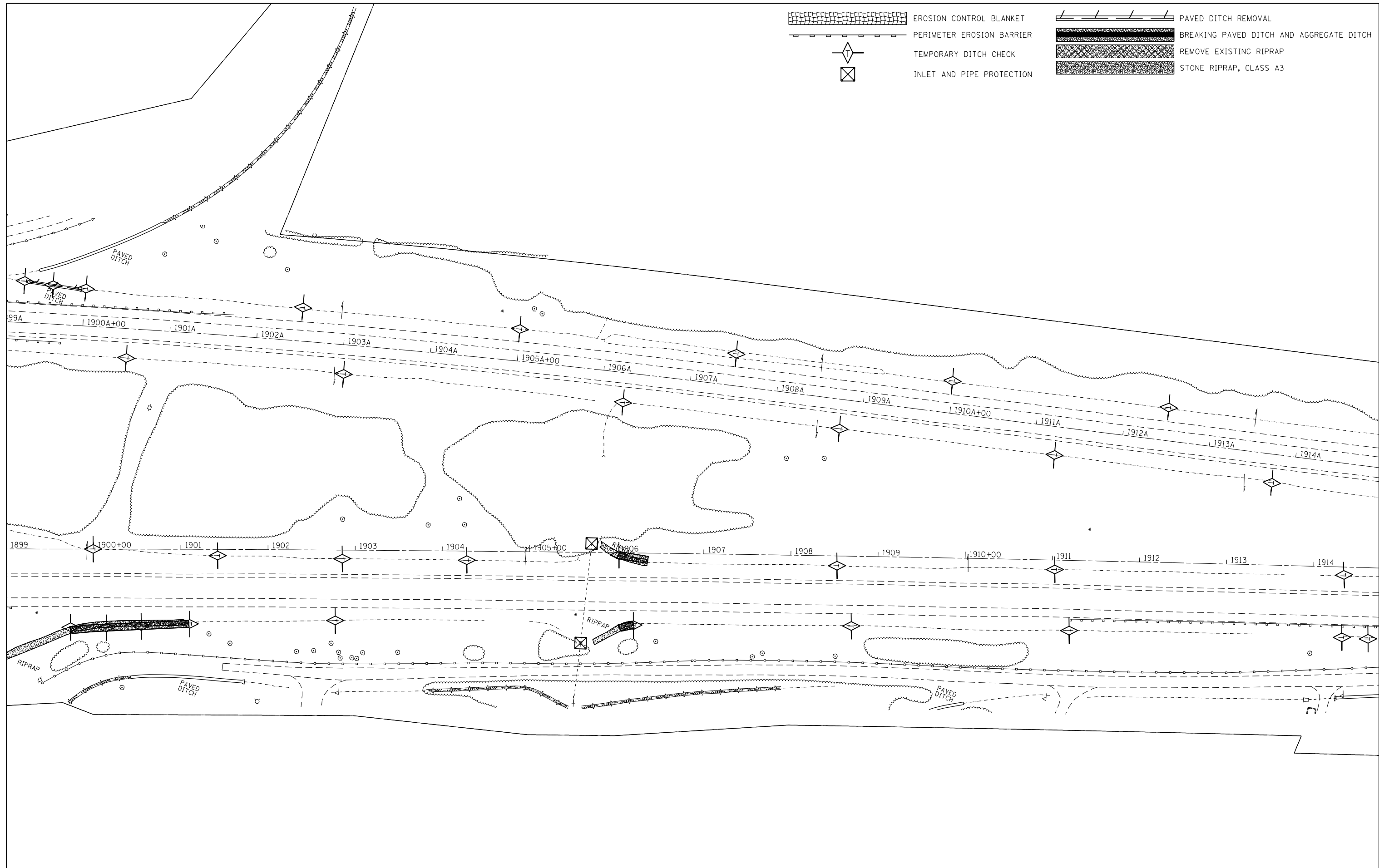
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

EROSION CONTROL PLAN

SCALE: SHEET 16 OF 20 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	(25-1,2)R	EFFINGHAM	424	141
ILLINOIS FED. AID PROJECT			CONTRACT NO. 74664	

-  EROSION CONTROL BLANKET
-  PERIMETER EROSION BARRIER
-  TEMPORARY DITCH CHECK
-  INLET AND PIPE PROTECTION
-  PAVED DITCH REMOVAL
-  BREAKING PAVED DITCH AND AGGREGATE DITCH
-  REMOVE EXISTING RIPRAP
-  STONE RIPRAP, CLASS A3



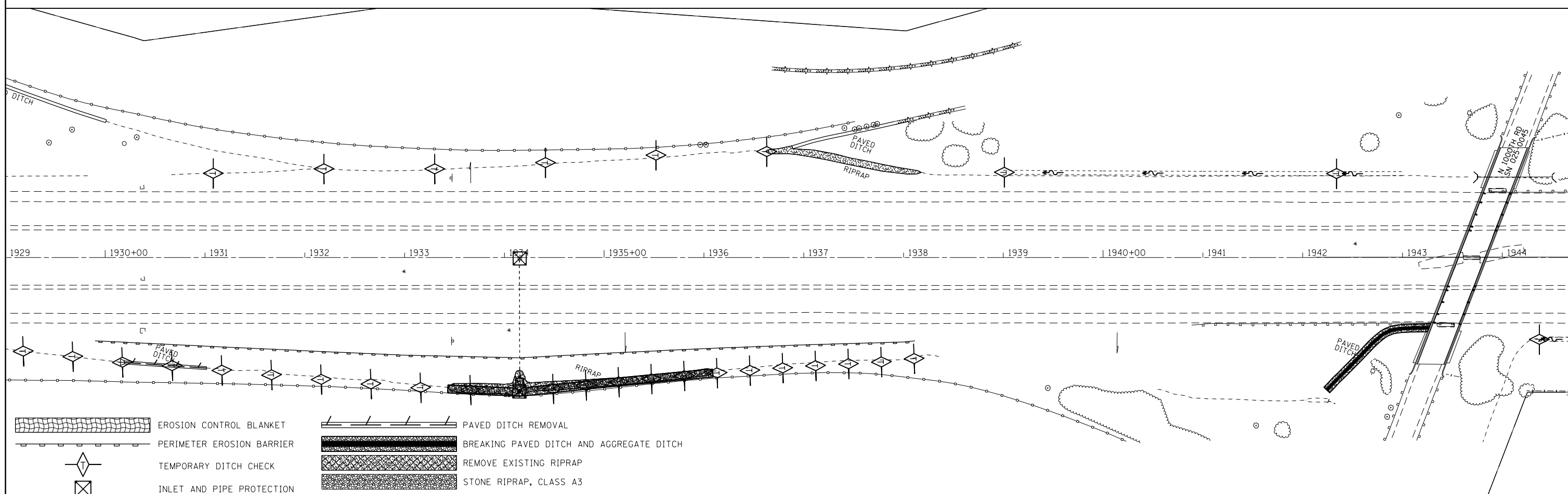
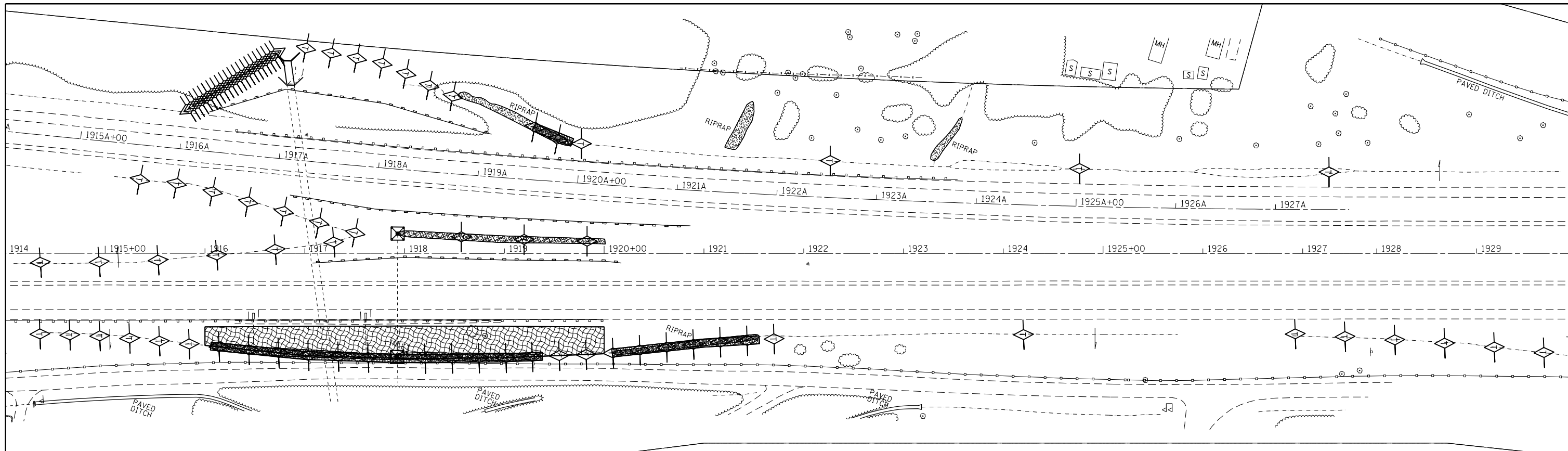
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Default	PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED -
	PLOT DATE = 8/25/2017	DATE -	REVISED -

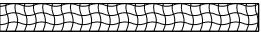

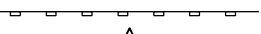





**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

EROSION CONTROL PLAN

SCALE: SHEET 17 OF 20 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	(25-1,2)R	EFFINGHAM	424	142
				CONTRACT NO. 74664
ILLINOIS FED. AID PROJECT				



- | | | | |
|---|---------------------------|--|--|
|  | EROSION CONTROL BLANKET |  | PAVED DITCH REMOVAL |
|  | PERIMETER EROSION BARRIER |  | BREAKING PAVED DITCH AND AGGREGATE DITCH |
|  | TEMPORARY DITCH CHECK |  | REMOVE EXISTING RIPRAP |
|  | INLET AND PIPE PROTECTION |  | STONE RIPRAP, CLASS A3 |

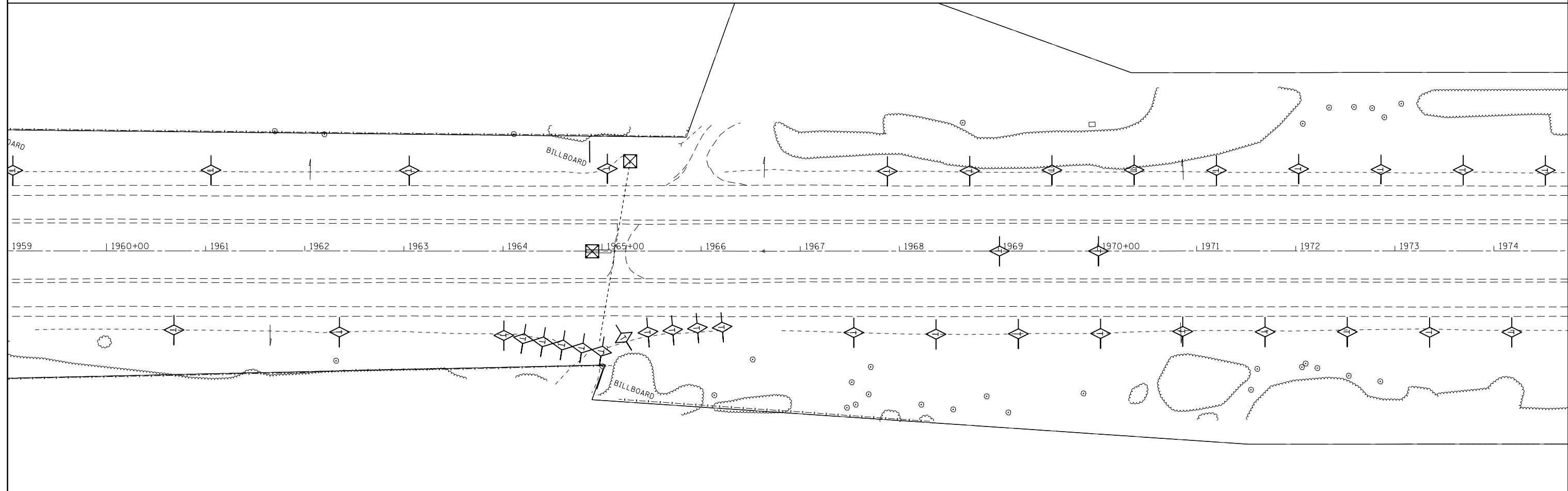
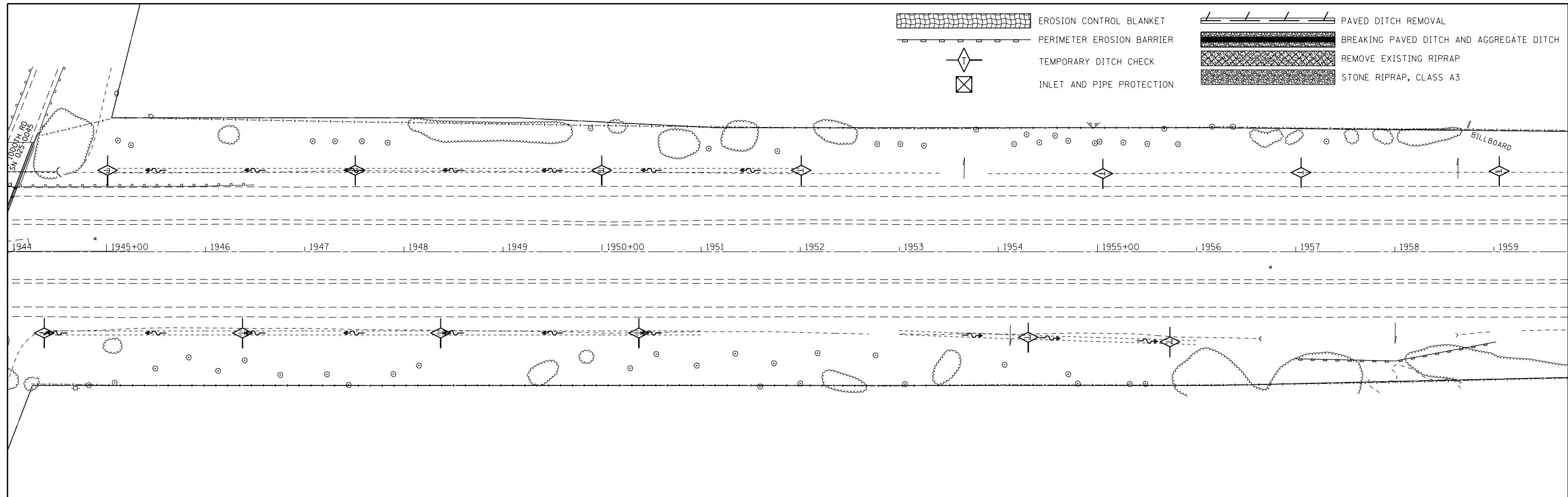
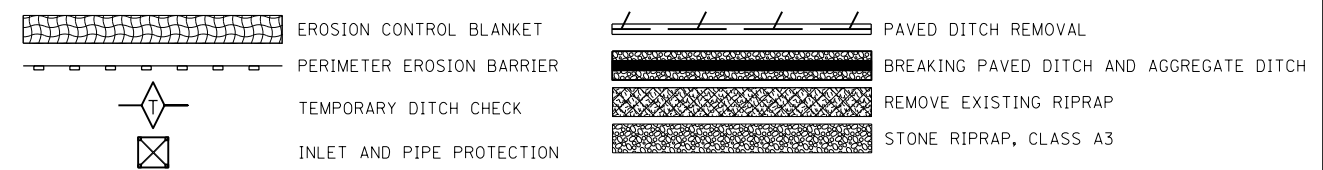
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Default	PLOT SCALE = 100.0000' / 1".	CHECKED -	REVISED -
	PLOT DATE = 8/25/2017	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**


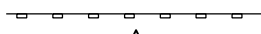


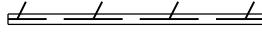



EROSION CONTROL PLAN

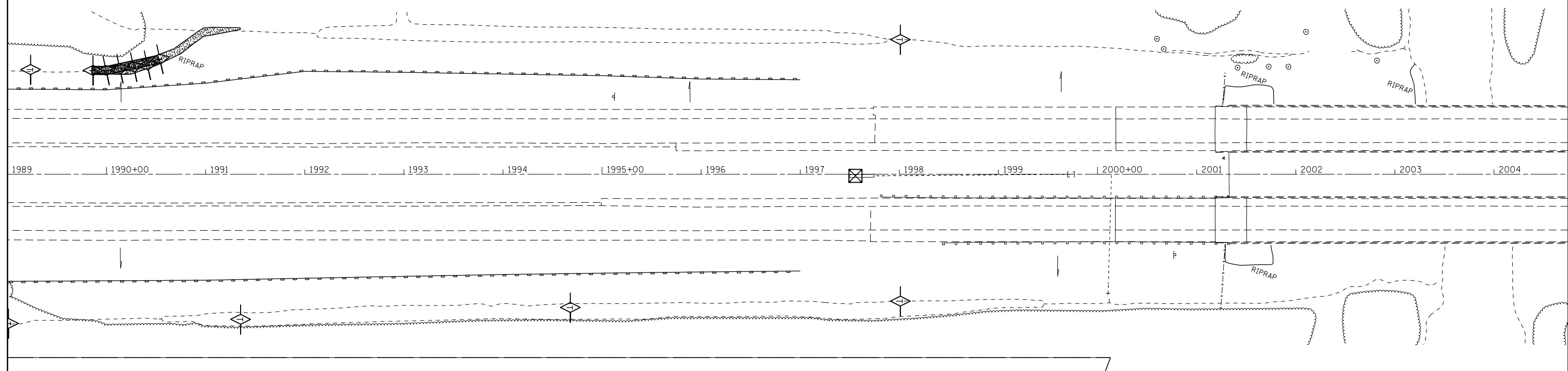
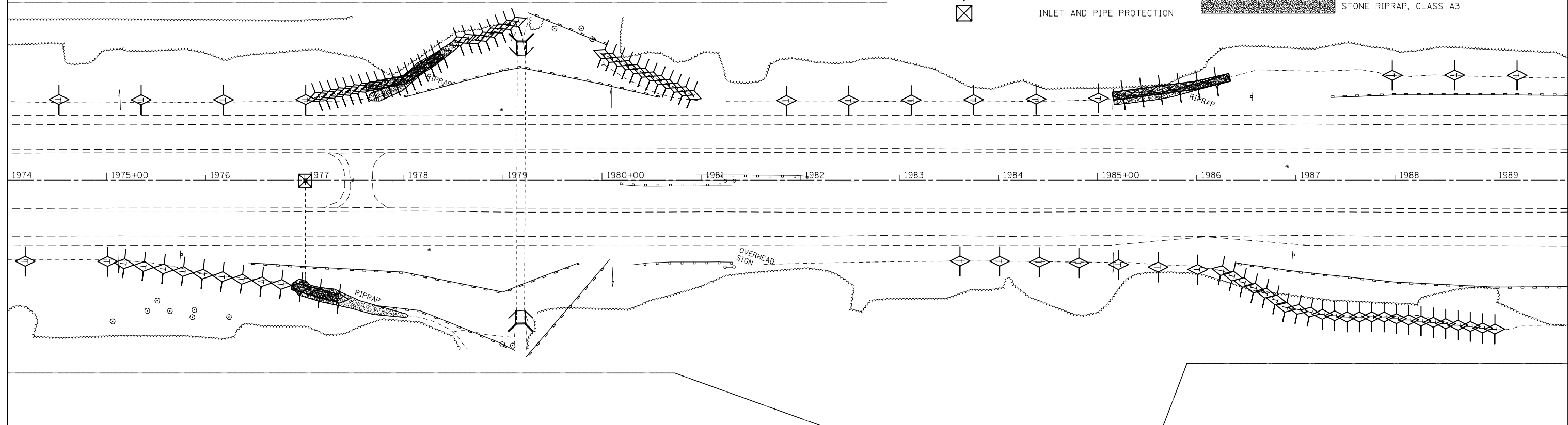
SCALE: SHEET 18 OF 20 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	(25-1,2)R	EFFINGHAM	424	143
CONTRACT NO. 74664				
ILLINOIS FED. AID PROJECT				



FILE NAME =	USER NAME = steffenmk	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EROSION CONTROL PLAN			F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
pw:\IL084EBIDINTEG.illinois.gov\PIWIDOT\Documents\IDOT Offices\District 7\Projects\74664\DRAWING\CAD\Sheets\D774664-sht-eros.dgn		CHECKED -	REVISED -		SCALE:	SHEET 19 OF 20 SHEETS	STA.	TO STA.	70	(25-1,2)R	EFFINGHAM	424	144
Default	PLOT SCALE = 100.0000' / 1".	DATE -	REVISED -					CONTRACT NO. 74664			ILLINOIS FED. AID PROJECT		
	PLOT DATE = 8/25/2017												

-  EROSION CONTROL BLANKET
-  PERIMETER EROSION BARRIER
-  TEMPORARY DITCH CHECK
-  INLET AND PIPE PROTECTION
-  PAVED DITCH REMOVAL
-  BREAKING PAVED DITCH AND AGGREGATE DITCH
-  REMOVE EXISTING RIPRAP
-  STONE RIPRAP, CLASS A3



FILE NAME =	USER NAME = steffenmk	DESIGNED -	REVISED -
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Default	PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED -
	PLOT DATE = 8/25/2017	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

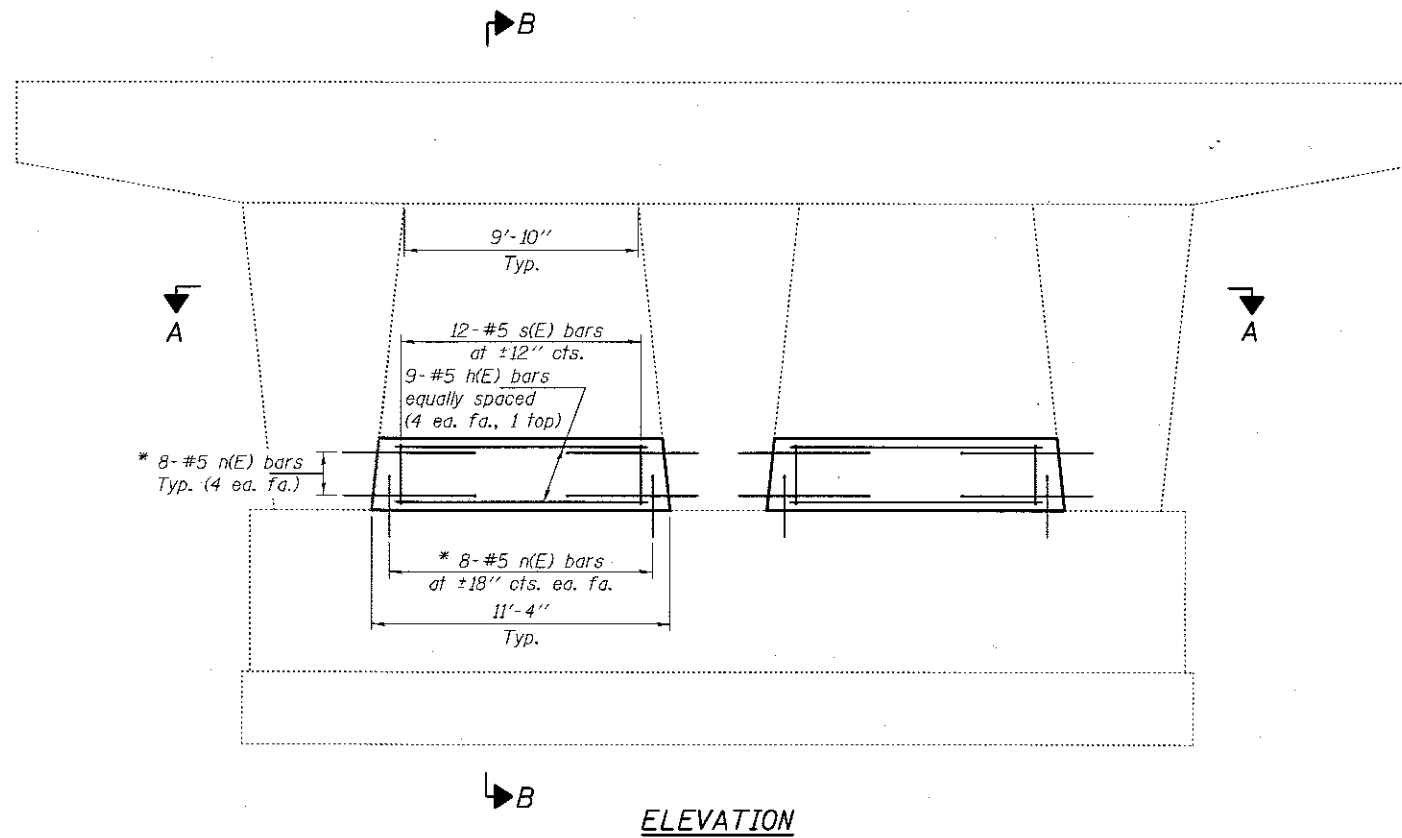
EROSION CONTROL PLAN

SCALE: SHEET 20 OF 20 SHEETS STA. TO STA.

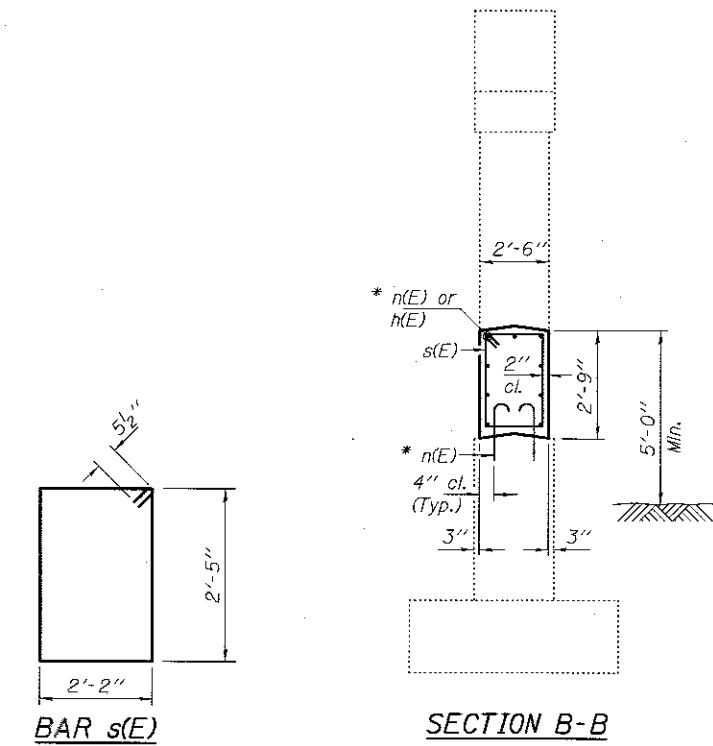
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	(25-1,2)R	EFFINGHAM	424	145
ILLINOIS FED. AID PROJECT			CONTRACT NO. 74664	

GENERAL NOTES

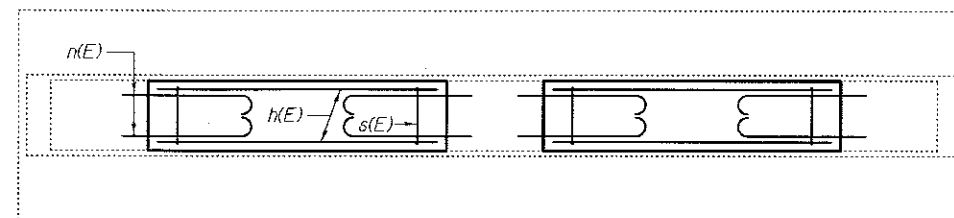
The cost of epoxy grouting threaded rods shall be included with Reinforcement Bars, Epoxy Coated.
 Plan dimensions and details relative to existing plans are subject to nominal construction variations. The Contractor shall field verify existing dimensions and details affecting new construction and make 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.
 Reinforcement bars designated (E) shall be epoxy coated.



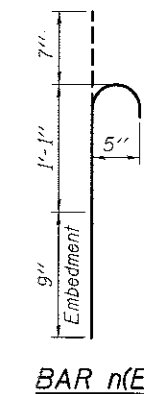
ELEVATION



* Epoxy grout n(E) bars in 9" min. holes according to Article 584 of the Standard Specifications.



SECTION A-A



BAR n(E)

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h(E)	18	#5	10'-7"	—
n(E)	64	#5	2'-5"	⌋
s(E)	24	#5	10'-1"	□
Concrete Structures			Cu. Yd.	5.7
Reinforcement Bars, Epoxy Coated			Pound	610



EXPIRES 11-30-2018

DESIGNED: [Signature]
 CHECKED: V. c. [Signature]
 DRAWN: balva
 CHECKED: [Signature]

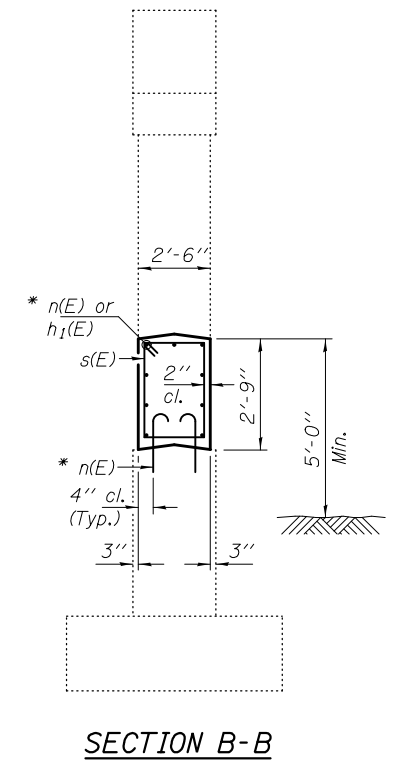
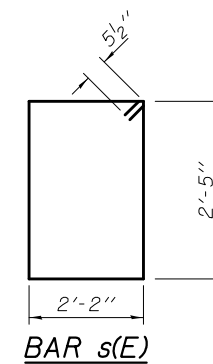
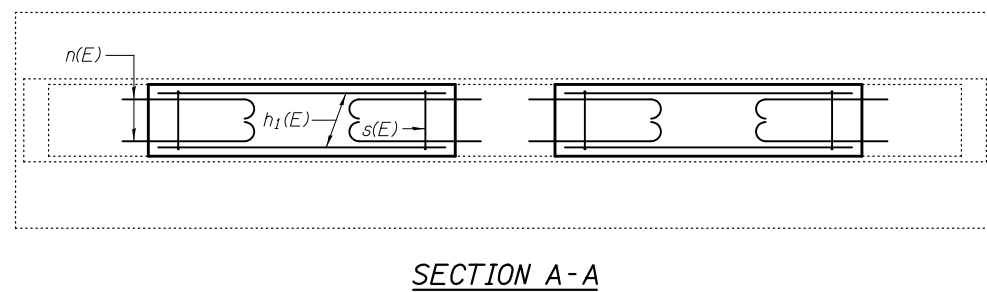
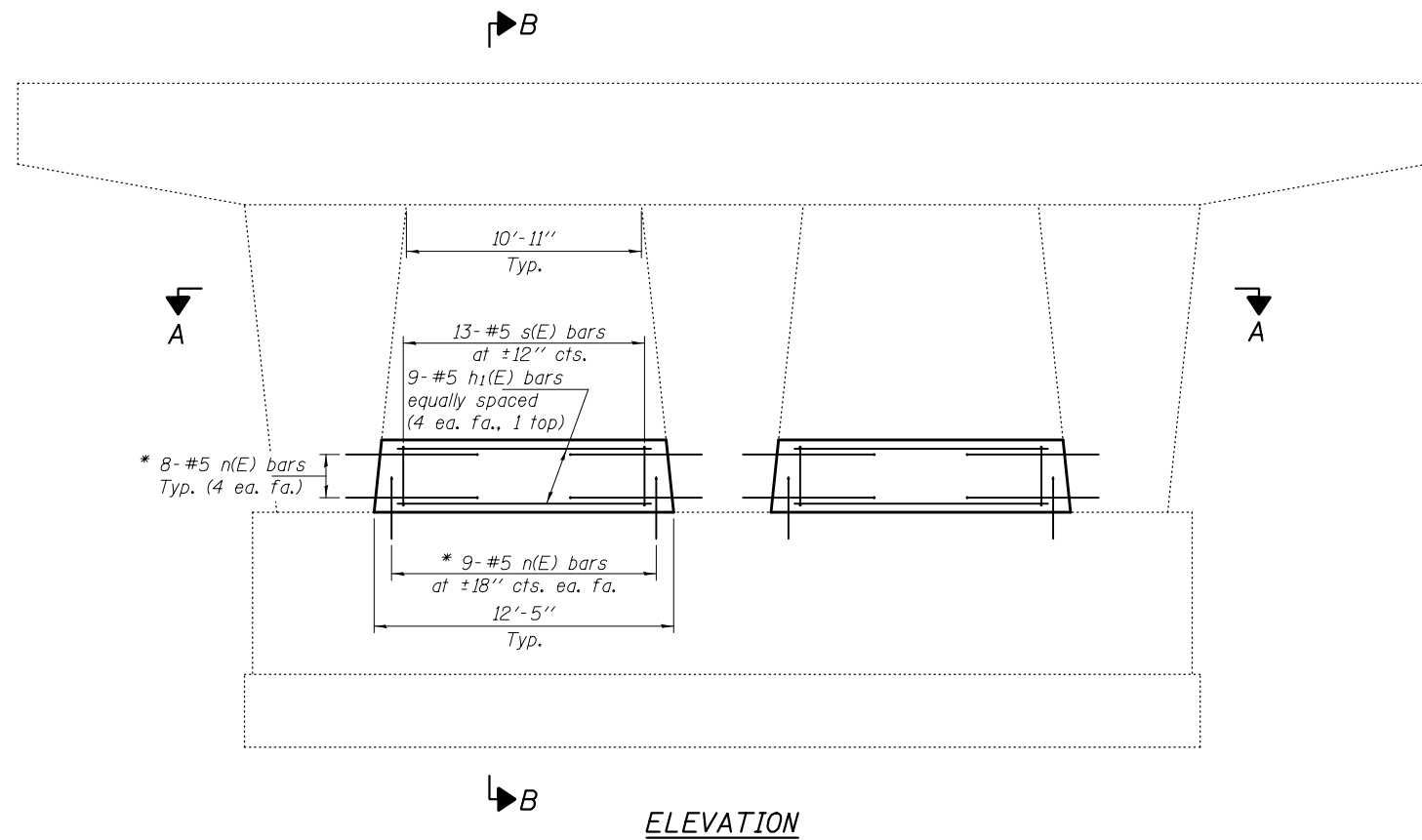
PASSED: [Signature]
 ENGINEER OF BRIDGES AND STRUCTURES

DATE: MAY 12, 2017
 REVISED:
 REVISED:

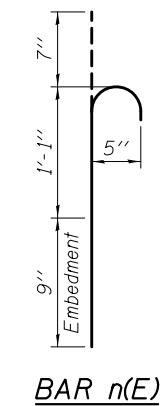
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

PIER 1 CRASHWALL EXTENSION
 SN 025-0007
 SHEET NO. 1 OF 2 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	025-1,21R	EFFINGHAM	424	146
CONTRACT NO. 74664			ILLINOIS FED. AID PROJECT	



* Epoxy grout n(E) bars in 9" min. holes according to Article 584 of the Standard Specifications.



BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h ₁ (E)	18	#5	11'-8"	—
n(E)	68	#5	2'-5"	⌋
s(E)	26	#5	10'-1"	□
Concrete Structures			Cu. Yd.	6.2
Reinforcement Bars, Epoxy Coated			Pound	660

DESIGNED *DAB*
 CHECKED *VHV*
 DRAWN *baliva*
 CHECKED *DAB VHV*

PASSED

 ENGINEER OF BRIDGES AND STRUCTURES

DATE MAY 12, 2017
 REVISED
 REVISED

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

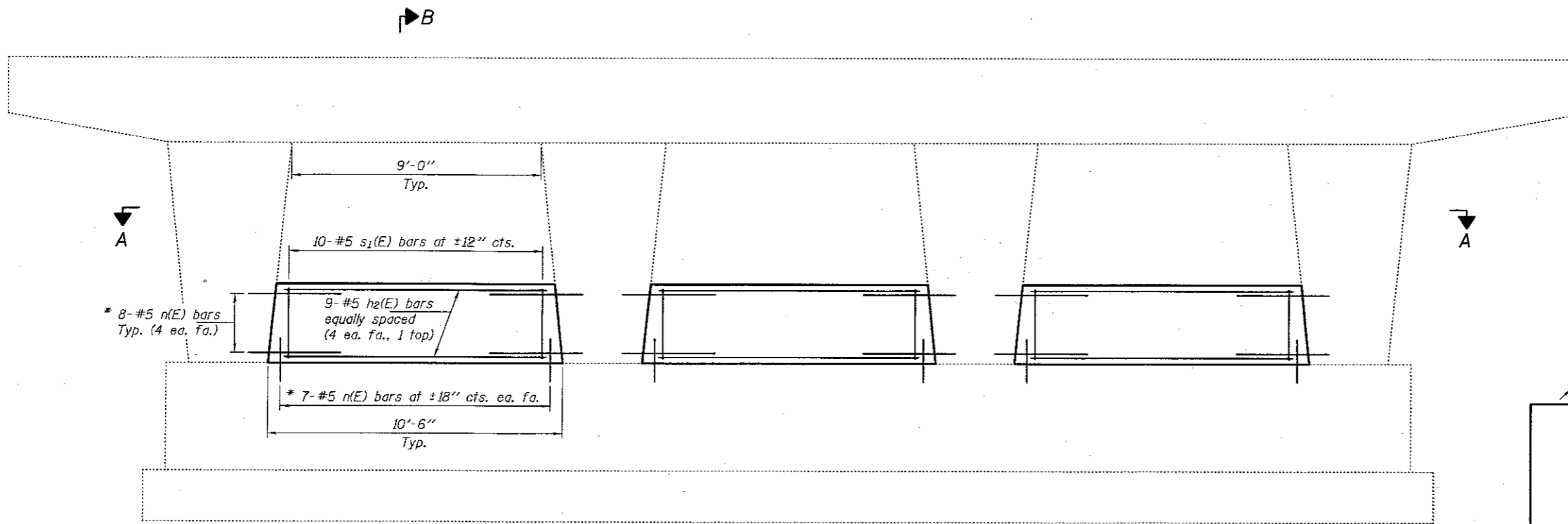
**PIER 2 CRASHWALL EXTENSION
 SN 025-0007**

SHEET NO. 2 OF 2 SHEETS

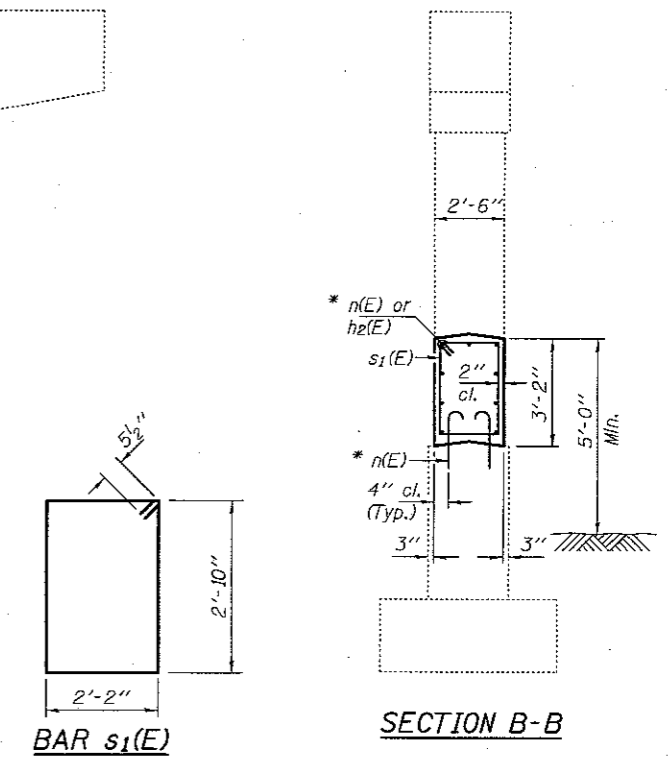
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	(25-1,2)R	EFFINGHAM	424	147
CONTRACT NO. 74664				
ILLINOIS FED. AID PROJECT				

GENERAL NOTES

The cost of epoxy grouting threaded rods shall be included with Reinforcement Bars, Epoxy Coated.
 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. Reinforcement bars designated (E) shall be epoxy coated.

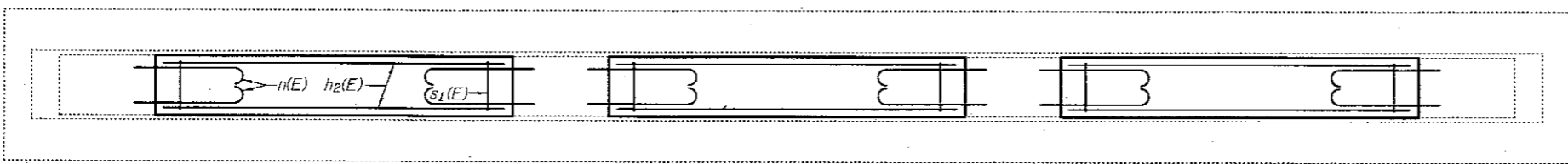


ELEVATION

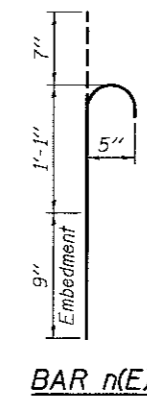


SECTION B-B

* Epoxy grout n(E) bars in 9" min. holes according to Article 584 of the Standard Specifications.



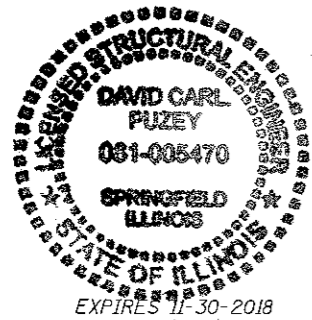
SECTION A-A



BAR n(E)

**BILL OF MATERIAL
2 PIERS**

Bar	No.	Size	Length	Shape
h2(E)	54	#5	9'-8"	—
n(E)	180	#5	2'-5"	—
s1(E)	60	#5	10'-11"	□
Concrete Structures			Cu. Yd.	18.0
Reinforcement Bars, Epoxy Coated			Pound	1680

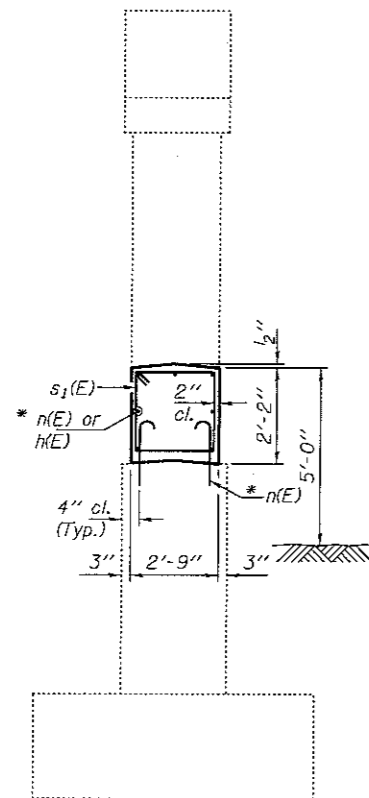


DESIGNED: <i>Victor Velaz</i>	DATE: MAY 12, 2017	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PIERS 1 & 2 CRASHWALL EXTENSION SN 025-0008		F.A.I. RTE. 70	SECTION 125-1.2(R)	COUNTY EFFINGHAM	TOTAL SHEETS 424	SHEET NO. 148
CHECKED: <i>Victor Velaz</i>	REVISOR:		CONTRACT NO. 74664	SHEET NO. 1 OF 1 SHEETS		ILLINOIS FED. AID PROJECT			
DRAWN: <i>bdj/g</i>	REVISOR:		ENGINEER OF BRIDGES AND STRUCTURES						
CHECKED: <i>WHD</i>	REVISOR:								

GENERAL NOTES

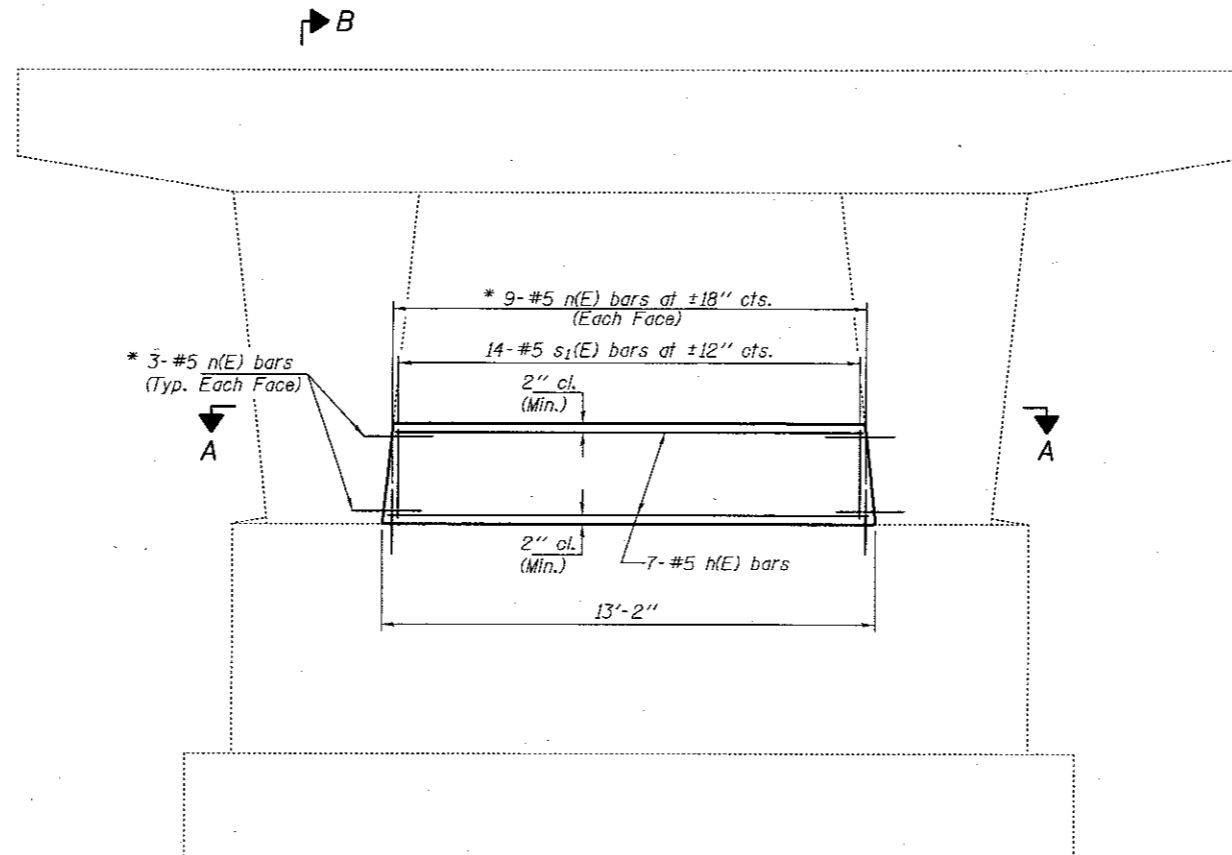
The cost of epoxy grouting n(E) bars shall be included with Reinforcement Bars, Epoxy Coated.

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

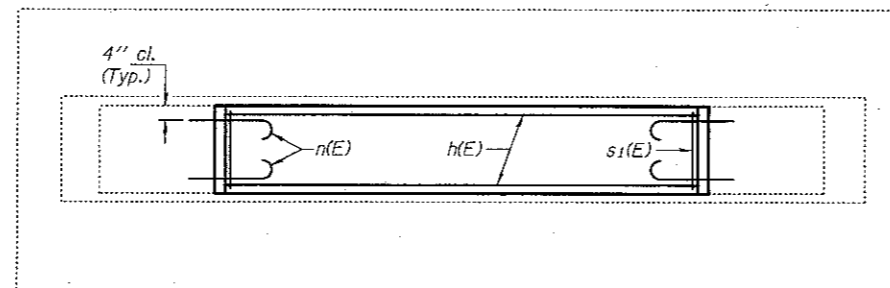


SECTION B-B

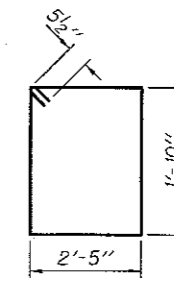
* Epoxy grout n(E) bars in 9" min. holes according to Article 584 of the Standard Specifications.



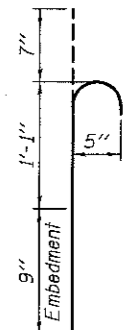
ELEVATION



SECTION A-A



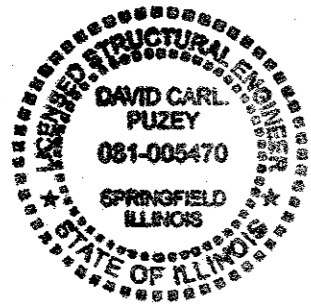
BAR s1(E)



BAR n(E)

**BILL OF MATERIAL
(2 PIERS)**

Bar	No.	Size	Length	Shape
h(E)	14	#5	12'-6"	—
n(E)	60	#5	2'-5"	U
s1(E)	28	#5	9'-5"	□
Concrete Structures			Cu. Yd.	5.8
Reinforcement Bars, Epoxy Coated			Pound	610



EXPIRES 11-30-2018

DESIGNED *Veronica Lopez*
 CHECKED *David Puzey*
 DRAWN *baliva*
 CHECKED *VHV*

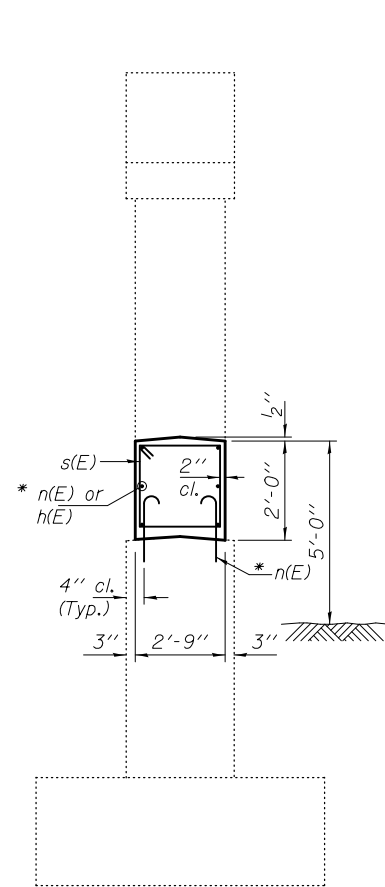
PASSED *David Carl Puzey*
 ENGINEER OF BRIDGES AND STRUCTURES

DATE - MAY 12, 2017
 REVISED
 REVISED

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

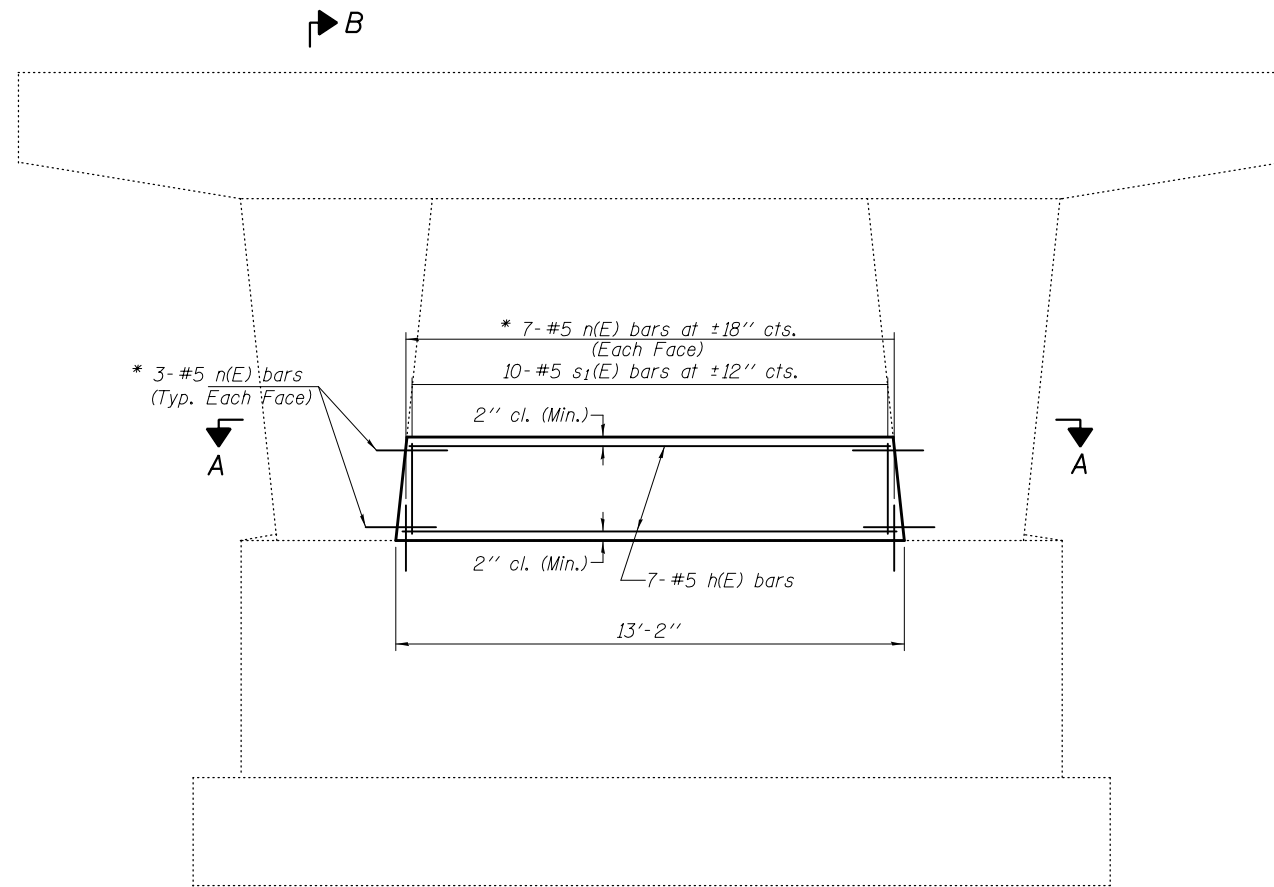
CRASHWALL EXTENSION DETAILS PIERS 1 & 3
 SN 025-0057
 SHEET NO. 1 OF 2 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	(25-1,2R)	EFFINGHAM	424	149
CONTRACT NO. 74664			ILLINOIS FED. AID PROJECT	

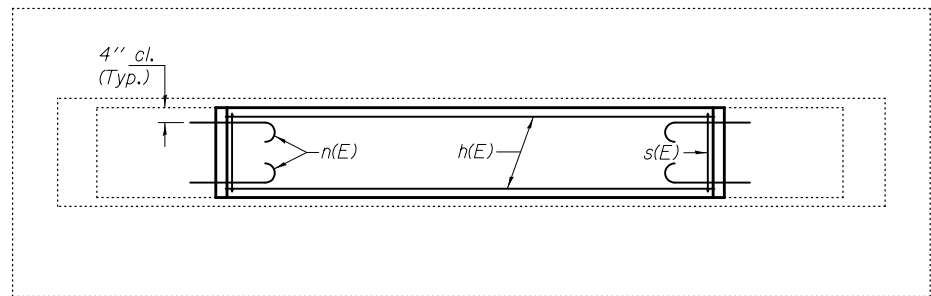


SECTION B-B

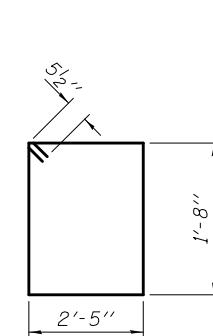
* Epoxy grout n(E) bars in 9" min. holes according to Article 584 of the Standard Specifications.



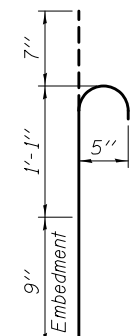
ELEVATION



SECTION A-A



BAR s(E)




BAR n(E)

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h(E)	7	#5	12'-6"	—
n(E)	26	#5	2'-5"	U
s(E)	10	#5	9'-1"	□
Concrete Structures			Cu. Yd.	2.7
Reinforcement Bars, Epoxy Coated			Pound	250

DESIGNED VHV
 CHECKED DAB
 DRAWN baliva
 CHECKED VHV DAB

PASSED

 ENGINEER OF BRIDGES AND STRUCTURES

DATE - MAY 12, 2017
 REVISED
 REVISED

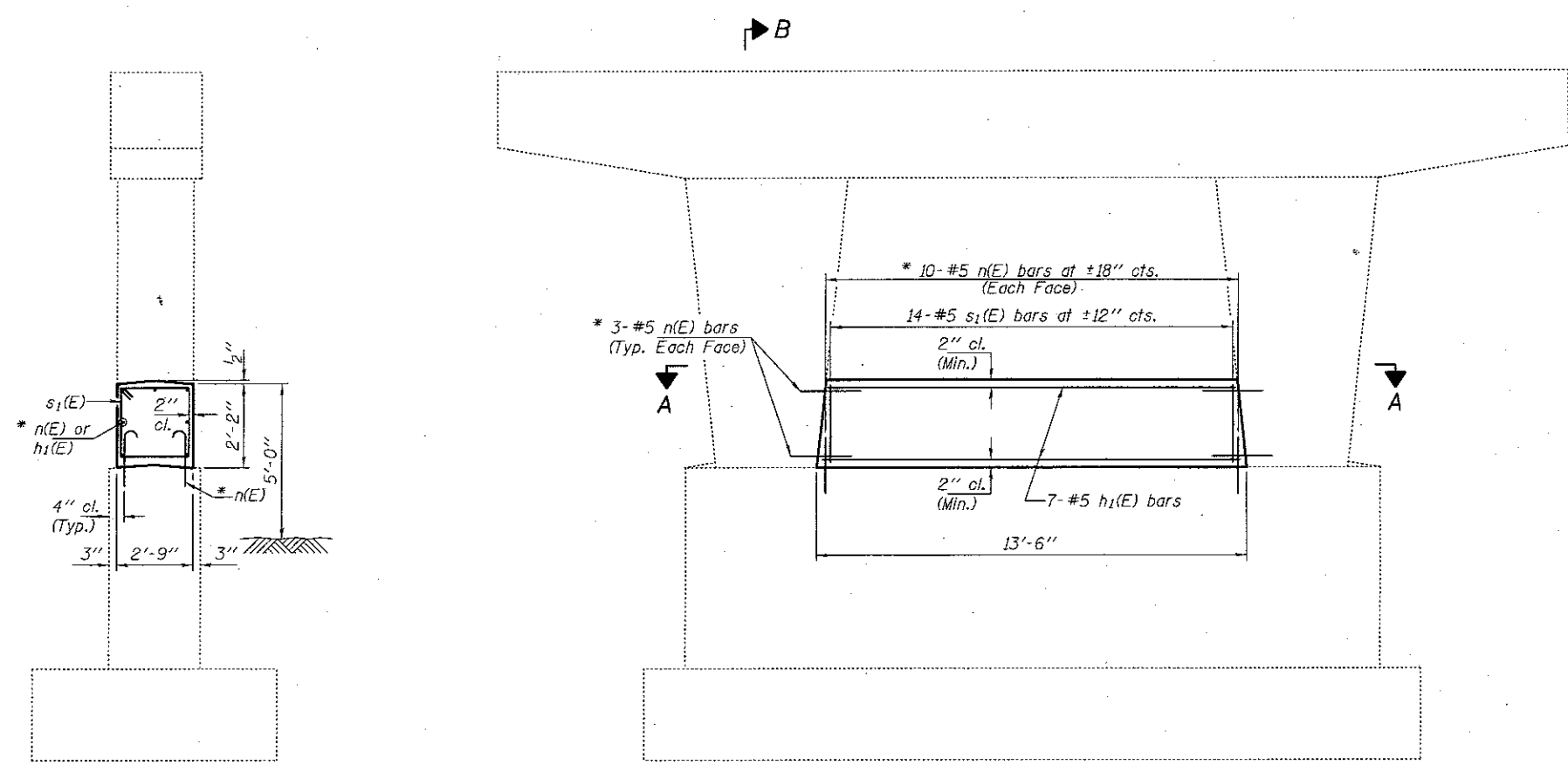
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

CRASHWALL EXTENSION DETAILS PIER 2
 SN 025-0057
 SHEET NO. 2 OF 2 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	(25-1,2)R	EFFINGHAM	424	150
CONTRACT NO. 74664				
ILLINOIS FED. AID PROJECT				

GENERAL NOTES

The cost of epoxy grouting n(E) bars shall be included with Reinforcement Bars, Epoxy Coated.
 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. Reinforcement bars designated (E) shall be epoxy coated.

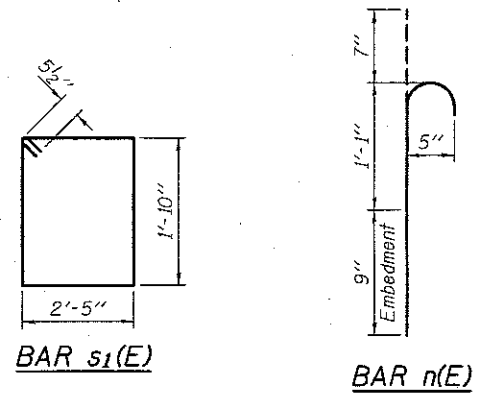


SECTION B-B

ELEVATION

SECTION A-A

* Epoxy grout n(E) bars in 9" min. holes according to Article 584 of the Standard Specifications.



BAR s1(E)

BAR n(E)

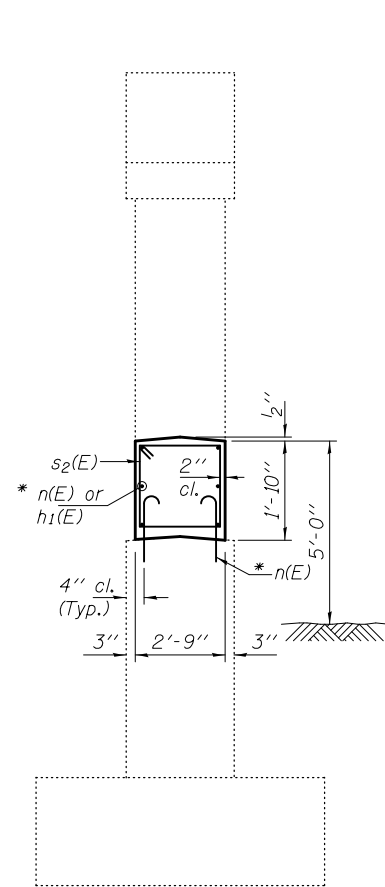
BILL OF MATERIAL (2 PIERS)

Bar	No.	Size	Length	Shape
h1(E)	14	#5	12'-5"	—
n(E)	64	#5	2'-5"	⌋
s1(E)	28	#5	9'-5"	□
Concrete Structures			Cu. Yd.	6.0
Reinforcement Bars, Epoxy Coated			Pound	620



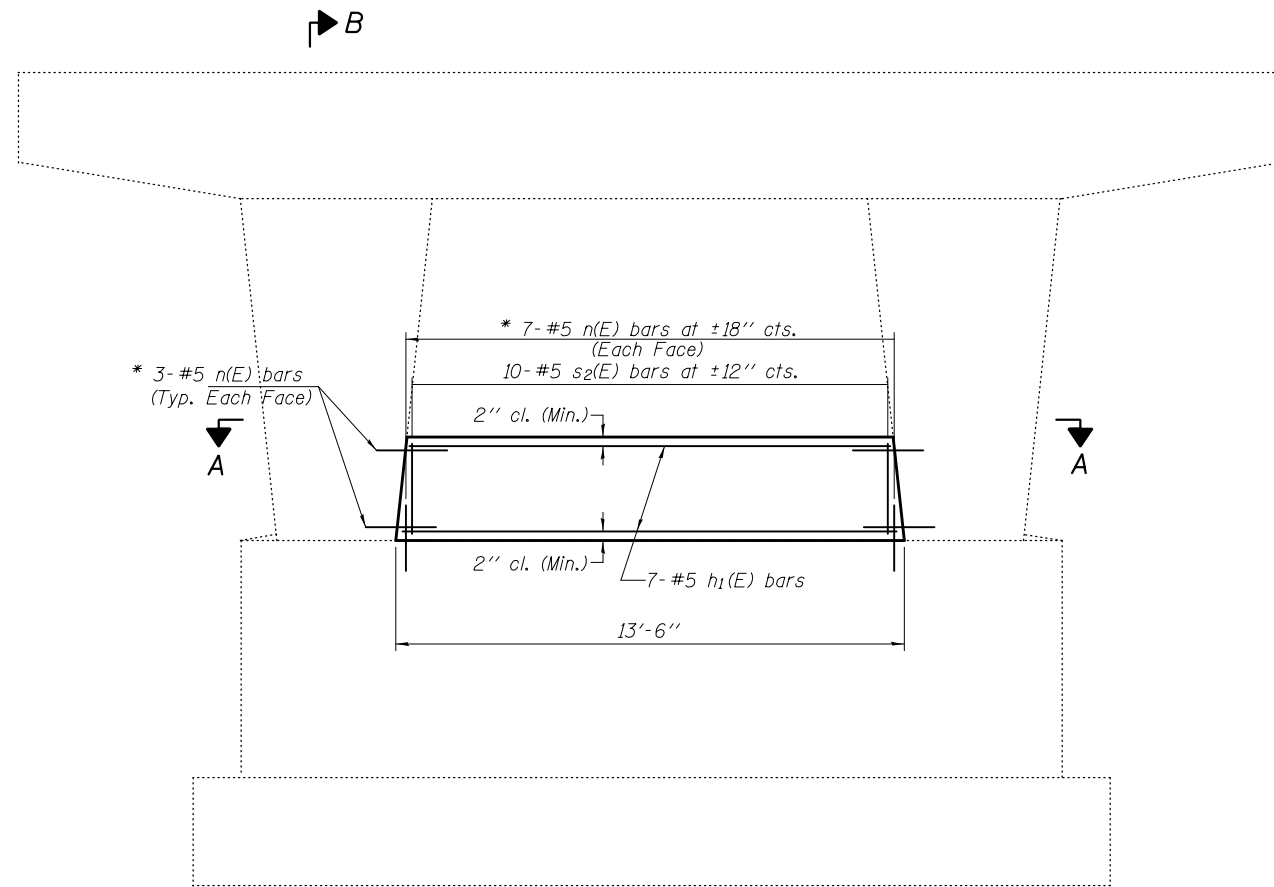
EXPIRES 11-30-2018

DESIGNED <i>Victor Kelsz</i>	DATE - MAY 12, 2017	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	CRASHWALL EXTENSION DETAILS PIERS 1 & 3 SN 025-0058	F.A.J. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CHECKED <i>[Signature]</i>	REVISOR			TO	(25-1.2)R	EFFINGHAM	424	151
DRAWN <i>balliva</i>	REVISOR	SHEET NO. 1 OF 2 SHEETS		CONTRACT NO. 74664				
CHECKED <i>[Signature]</i>	ENGINEER OF BRIDGES AND STRUCTURES			ILLINOIS FED. AID PROJECT				

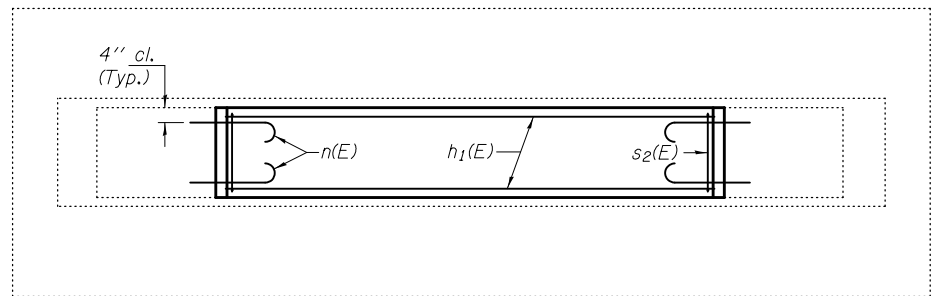


SECTION B-B

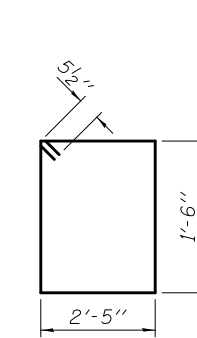
* Epoxy grout n(E) bars in 9" min. holes according to Article 584 of the Standard Specifications.



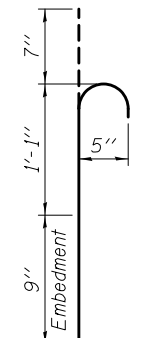
ELEVATION



SECTION A-A



BAR s2(E)




BAR n(E)

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h ₁ (E)	7	#5	12'-5"	—
n(E)	26	#5	2'-5"	U
s ₂ (E)	10	#5	8'-9"	□
Concrete Structures			Cu. Yd.	2.5
Reinforcement Bars, Epoxy Coated			Pound	250

DESIGNED VHV
 CHECKED DAB
 DRAWN baliva
 CHECKED VHV DAB

PASSED

 ENGINEER OF BRIDGES AND STRUCTURES

DATE - MAY 12, 2017
 REVISED
 REVISED

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

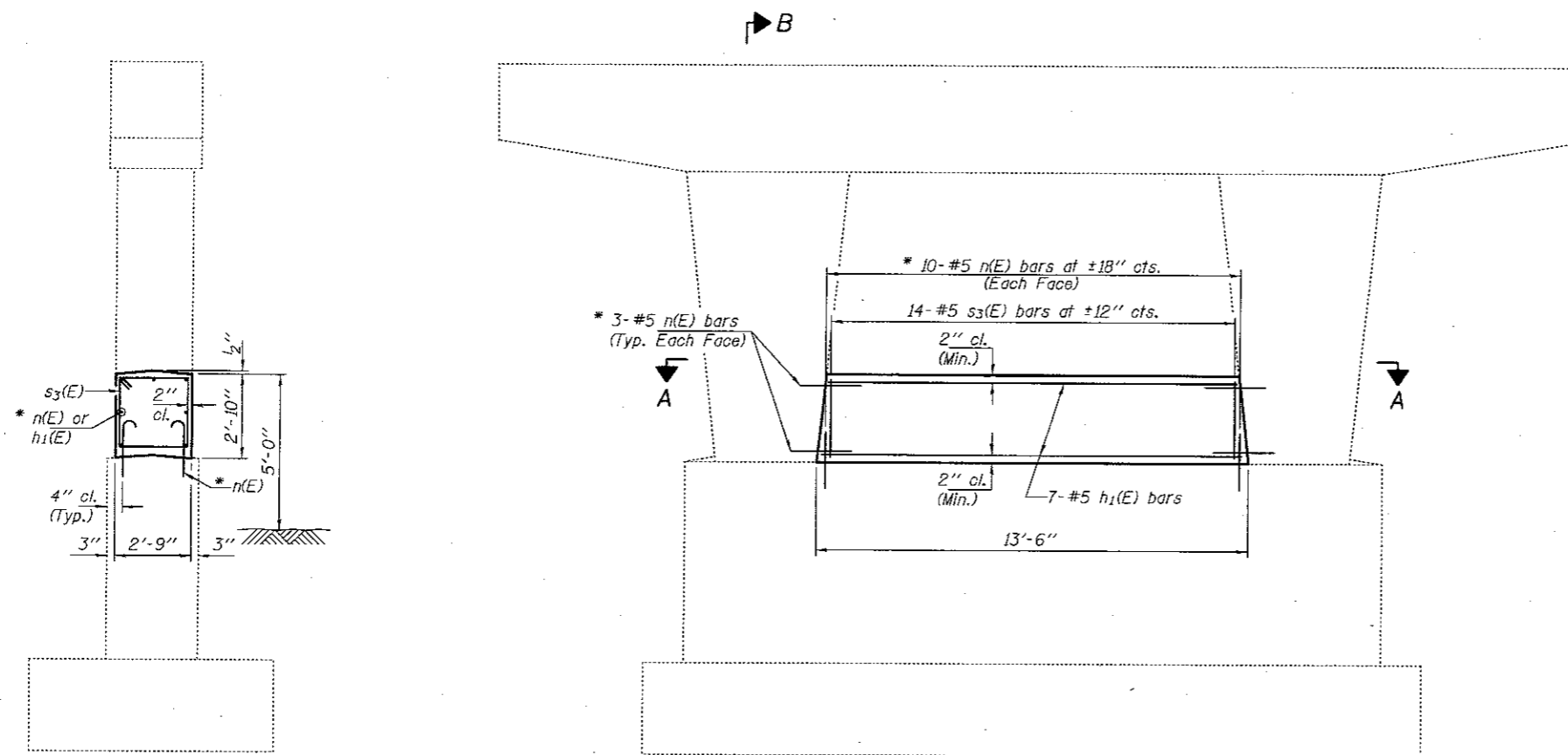
CRASHWALL EXTENSION DETAILS PIER 2
 SN 025-0058
 SHEET NO. 2 OF 2 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	(25-1,2)R	EFFINGHAM	424	152
CONTRACT NO. 74664			ILLINOIS FED. AID PROJECT	

GENERAL NOTES

The cost of epoxy grouting n(E) bars shall be included with Reinforcement Bars, Epoxy Coated.

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

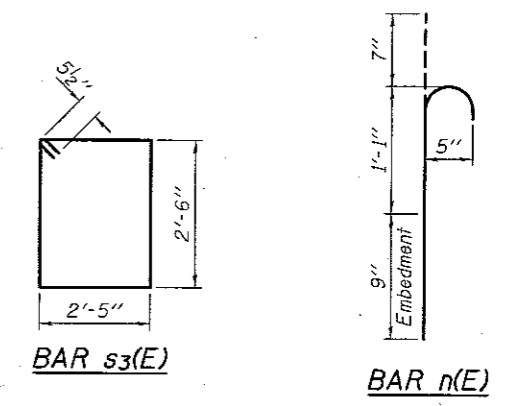


SECTION B-B

ELEVATION

SECTION A-A

* Epoxy grout n(E) bars in 9" min. holes according to Article 584 of the Standard Specifications.



BAR s3(E)

BAR n(E)

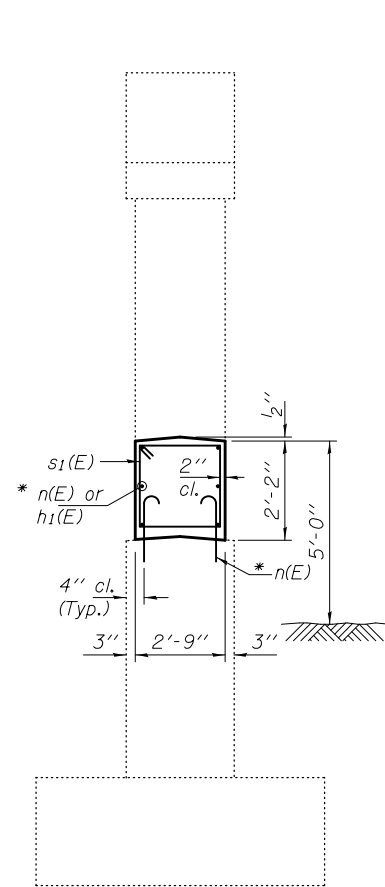
**BILL OF MATERIAL
(2 PIERS)**

Bar	No.	Size	Length	Shape
h ₁ (E)	14	#5	12'-5"	—
n(E)	64	#5	2'-5"	⌒
s ₃ (E)	28	#5	10'-9"	□
Concrete Structures			Cu. Yd.	7.8
Reinforcement Bars, Epoxy Coated			Pound	660



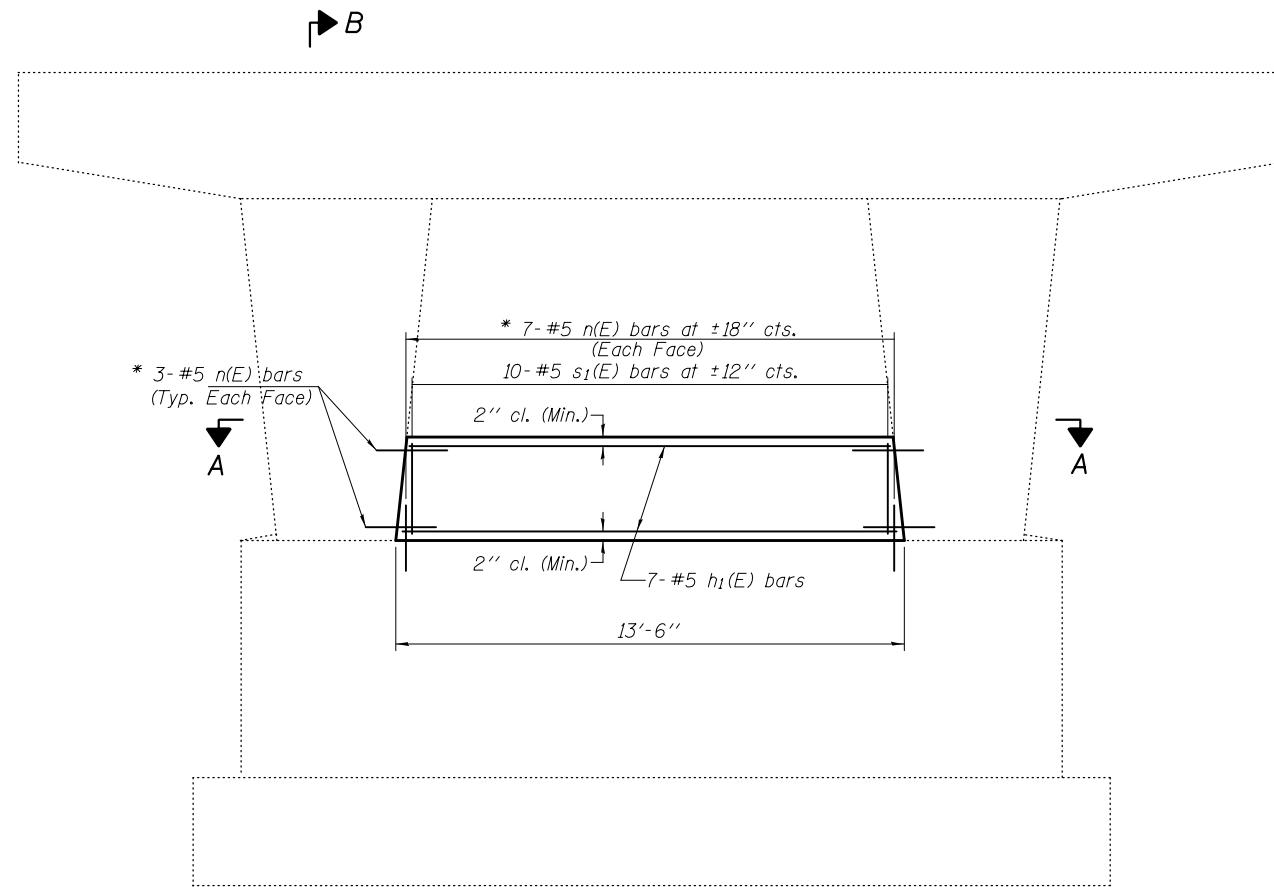
EXPIRES 11-30-2018

DESIGNED Victor Veliz	CHECKED [Signature]	DATE MAY 12, 2017	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	CRASHWALL EXTENSION DETAILS PIERS 1 & 3 SN Q25-0059	F.A.I. RTE. 70	SECTION 25-1.2R	COUNTY EFFINGHAM	TOTAL SHEETS 424	SHEET NO. 153
DRAWN Salva	CHECKED [Signature]	REVISOR	ENGINEER OF BRIDGES AND STRUCTURES	SHEET NO. 1 OF 2 SHEETS	CONTRACT NO. 74664				

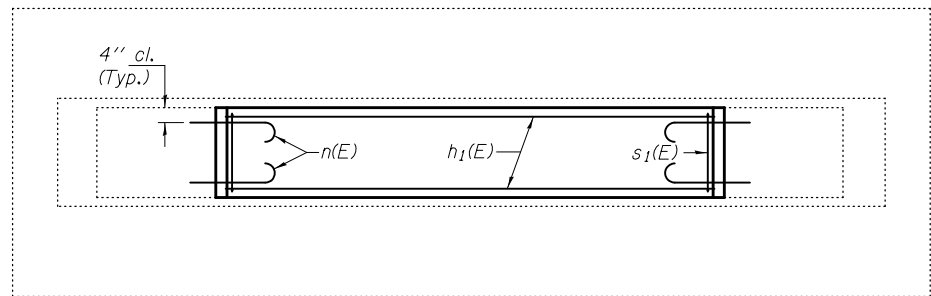


SECTION B-B

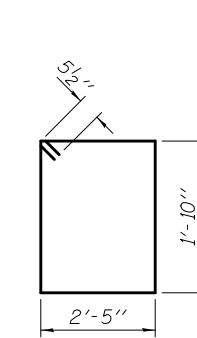
* Epoxy grout n(E) bars in 9" min. holes according to Article 584 of the Standard Specifications.



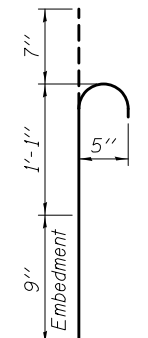
ELEVATION



SECTION A-A



BAR s1(E)




BAR n(E)

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h ₁ (E)	7	#5	12'-5"	—
n(E)	26	#5	2'-5"	⌒
s ₁ (E)	10	#5	9'-5"	□
Concrete Structures			Cu. Yd.	3.0
Reinforcement Bars, Epoxy Coated			Pound	250

DESIGNED VHV
 CHECKED DAB
 DRAWN baliva
 CHECKED VHV DAB

PASSED

 ENGINEER OF BRIDGES AND STRUCTURES

DATE - MAY 12, 2017
 REVISED
 REVISED

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

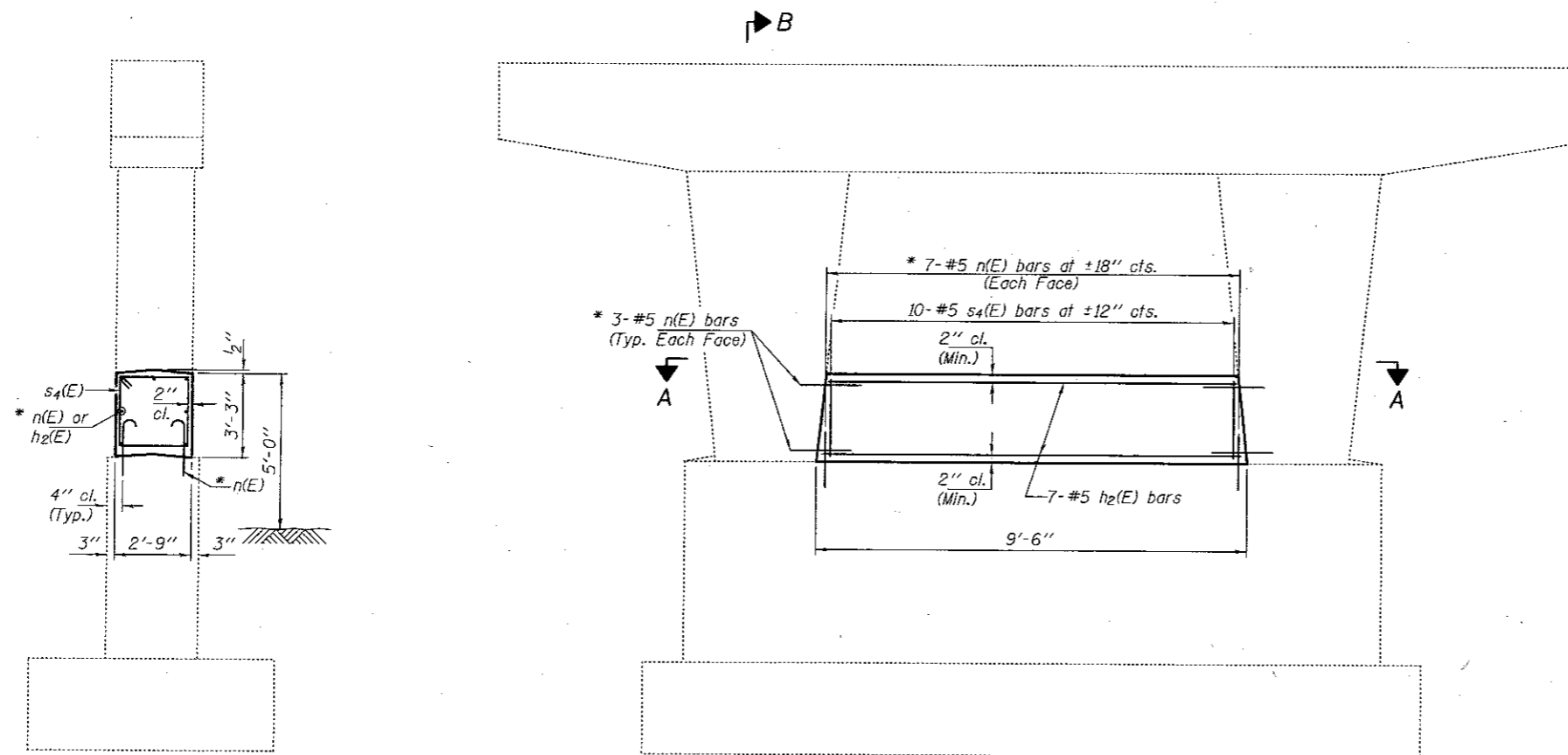
CRASHWALL EXTENSION DETAILS PIER 2
 SN 025-0059
 SHEET NO. 2 OF 2 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	(25-1,2)R	EFFINGHAM	424	154
CONTRACT NO. 74664				
ILLINOIS FED. AID PROJECT				

GENERAL NOTES

The cost of epoxy grouting n(E) bars shall be included with Reinforcement Bars, Epoxy Coated.

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

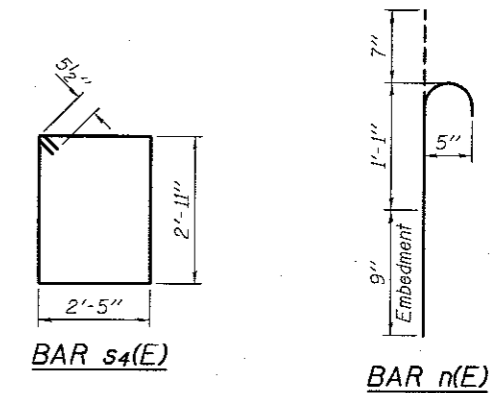


SECTION B-B

ELEVATION

SECTION A-A

* Epoxy grout n(E) bars in 9" min. holes according to Article 584 of the Standard Specifications.



BAR s4(E)

BAR n(E)

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h2(E)	7	#5	9'-0"	—
n(E)	26	#5	2'-5"	—
s4(E)	10	#5	11'-7"	□
Concrete Structures			Cu. Yd.	3.1
Reinforcement Bars, Epoxy Coated			Pound	250



EXPIRES 11-30-2018

DESIGNED: *Victor Veliz*
 CHECKED: *[Signature]*
 DRAWN: *Dalva*
 CHECKED: *VHV-123*

PASSED

[Signature]
 ENGINEER OF BRIDGES AND STRUCTURES

DATE - MAY 12, 2017

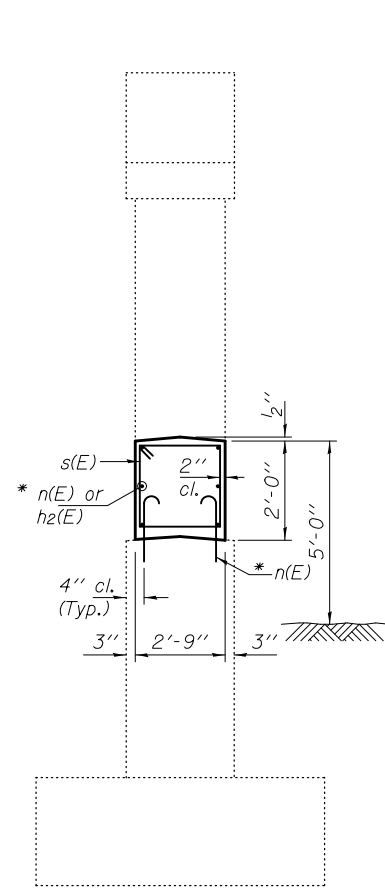
REVISED
 REVISED

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

CRASHWALL EXTENSION DETAILS PIER 1
 SN 025-0045

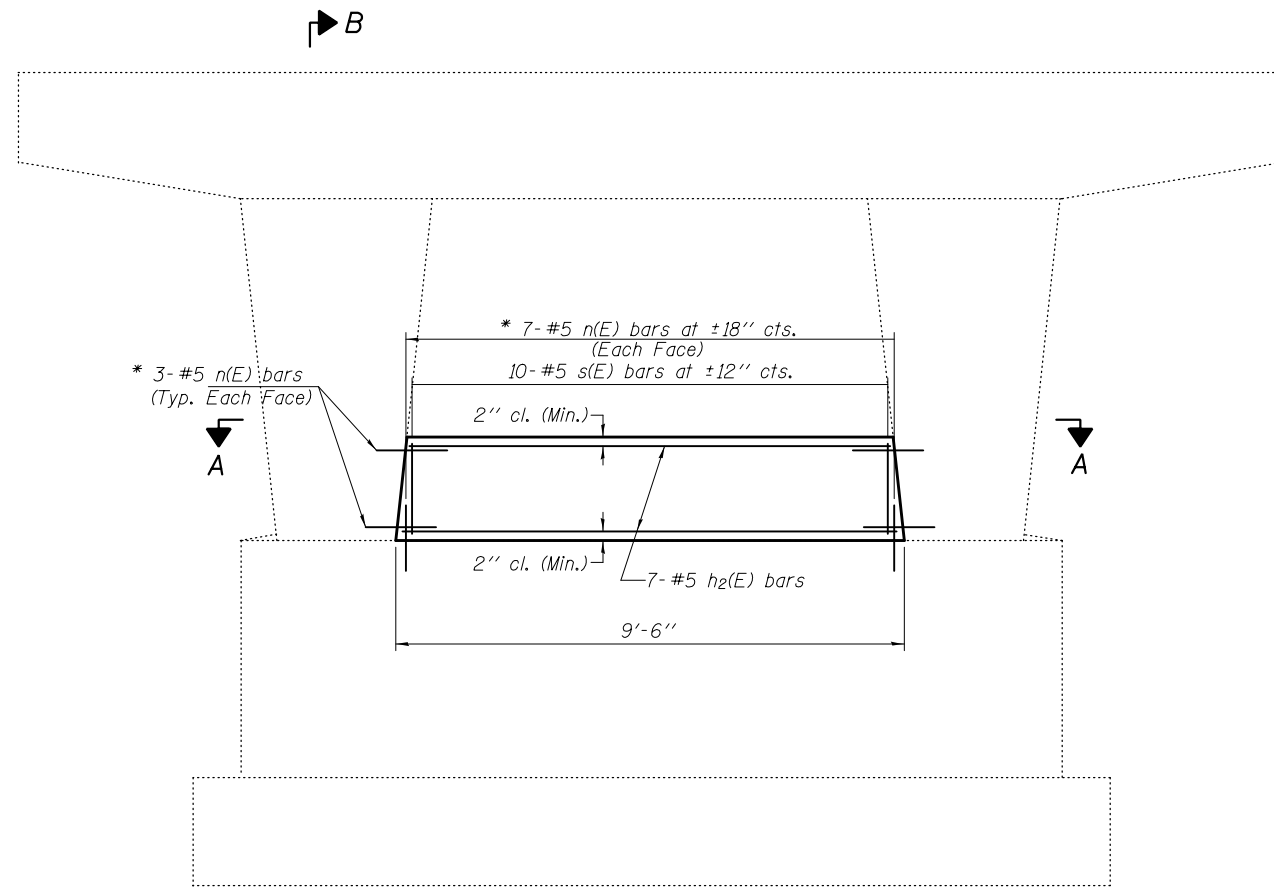
SHEET NO. 1 OF 3 SHEETS

F.A.T. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	125-1.2R	EFFINGHAM	424	155
			CONTRACT NO. 74664	
ILLINOIS FED. AID PROJECT				

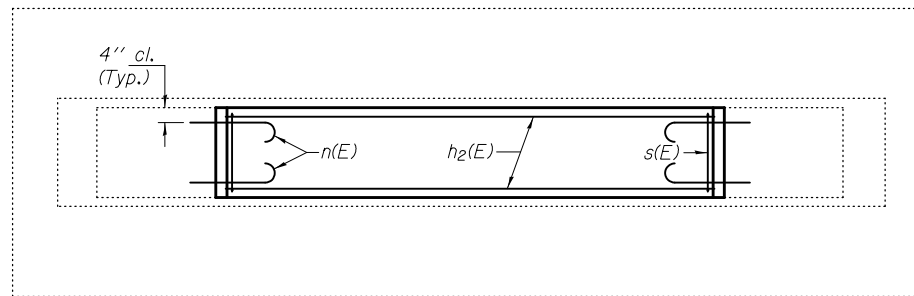


SECTION B-B

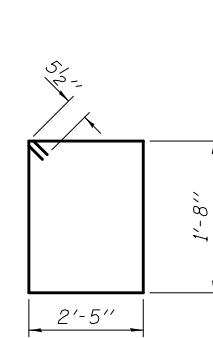
* Epoxy grout n(E) bars in 9" min. holes according to Article 584 of the Standard Specifications.



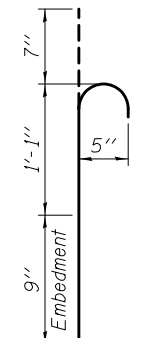
ELEVATION



SECTION A-A



BAR s(E)



BAR n(E)

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h ₂ (E)	7	#5	8'-11"	—
n(E)	26	#5	2'-5"	U
s(E)	10	#5	9'-1"	□
Concrete Structures			Cu. Yd.	1.9
Reinforcement Bars, Epoxy Coated			Pound	230

DESIGNED VHV
 CHECKED DAB
 DRAWN baliva
 CHECKED VHV DAB

PASSED

 ENGINEER OF BRIDGES AND STRUCTURES

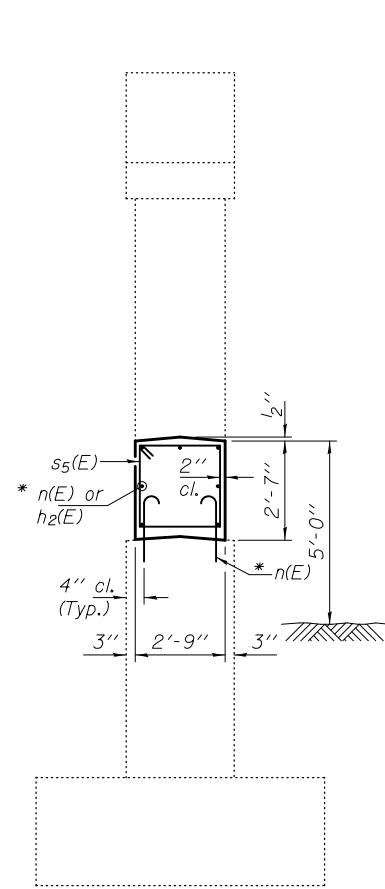
DATE - MAY 12, 2017
 REVISED
 REVISED

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

CRASHWALL EXTENSION DETAILS PIER 2
 SN 025-0045

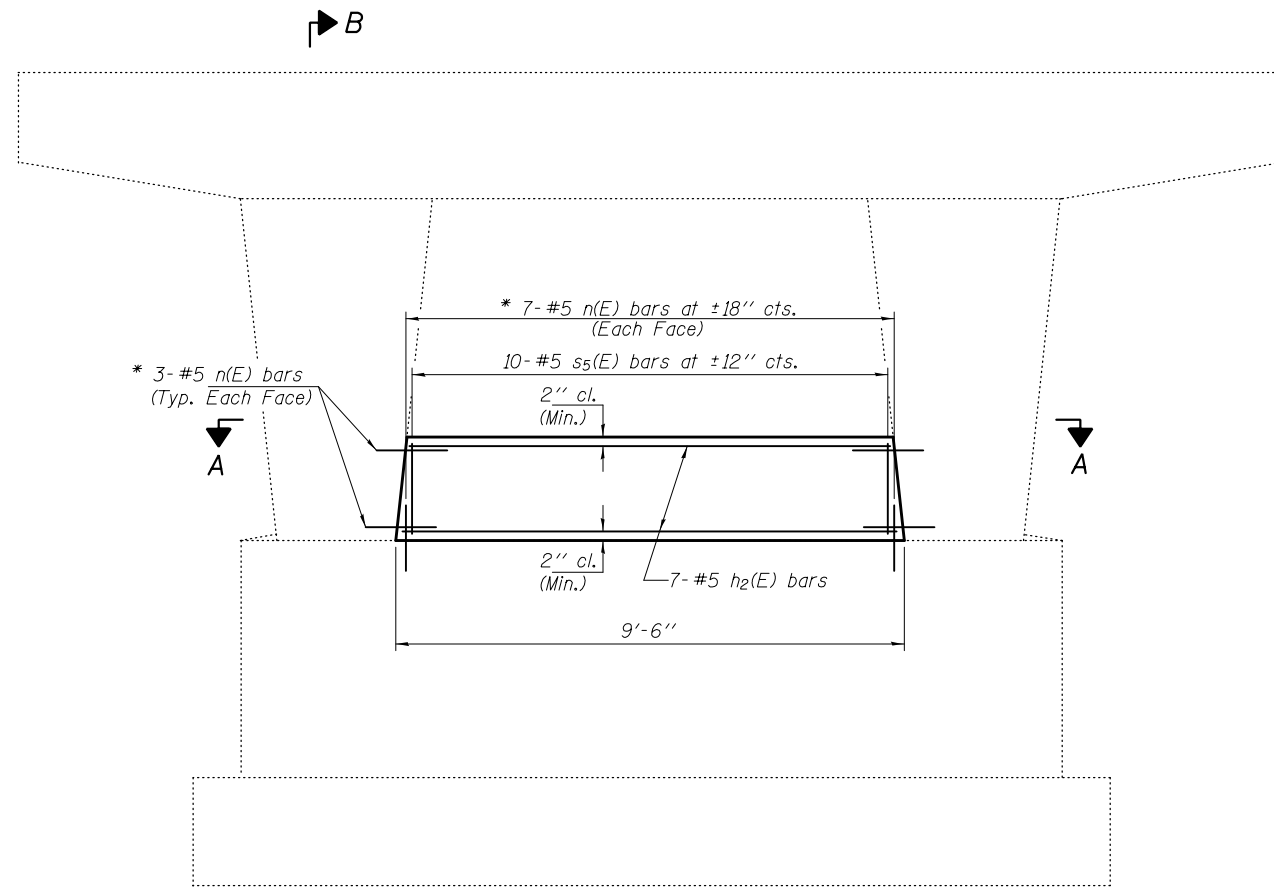
SHEET NO. 2 OF 3 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	(25-1,2)R	EFFINGHAM	424	156
CONTRACT NO. 74664			ILLINOIS FED. AID PROJECT	

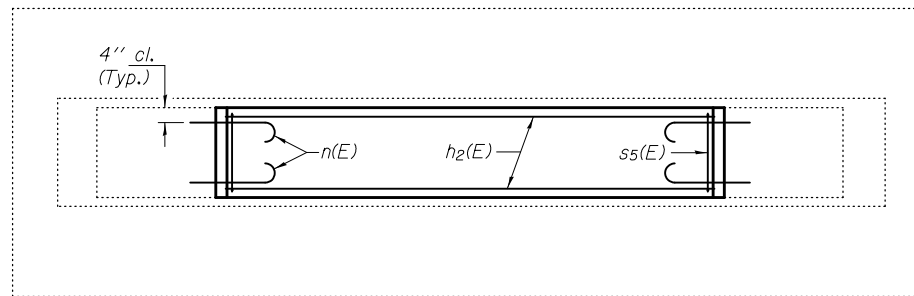


SECTION B-B

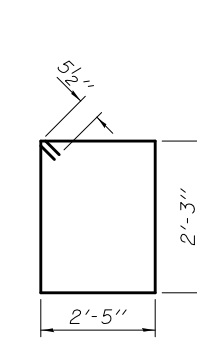
* Epoxy grout n(E) bars in 9" min. holes according to Article 584 of the Standard Specifications.



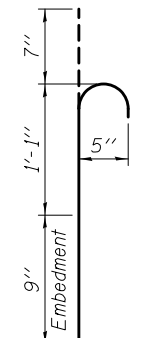
ELEVATION



SECTION A-A



BAR s5(E)




BAR n(E)

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h ₂ (E)	7	#5	9'-0"	—
n(E)	26	#5	2'-5"	U
s ₅ (E)	10	#5	10'-3"	□
Concrete Structures			Cu. Yd.	2.5
Reinforcement Bars, Epoxy Coated			Pound	240

DESIGNED VHV
 CHECKED DAB
 DRAWN baliva
 CHECKED VHV DAB

PASSED

 ENGINEER OF BRIDGES AND STRUCTURES

DATE - MAY 12, 2017
 REVISED
 REVISED

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

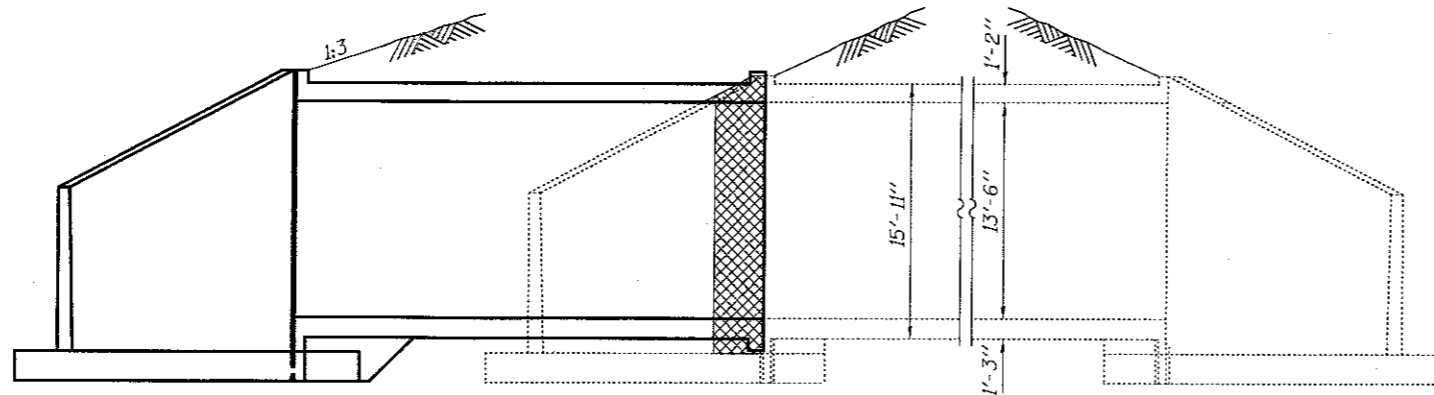
CRASHWALL EXTENSION DETAILS PIER 3
 SN 025-0045
 SHEET NO. 3 OF 3 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	(25-1,2)R	EFFINGHAM	424	157
CONTRACT NO. 74664			ILLINOIS FED. AID PROJECT	

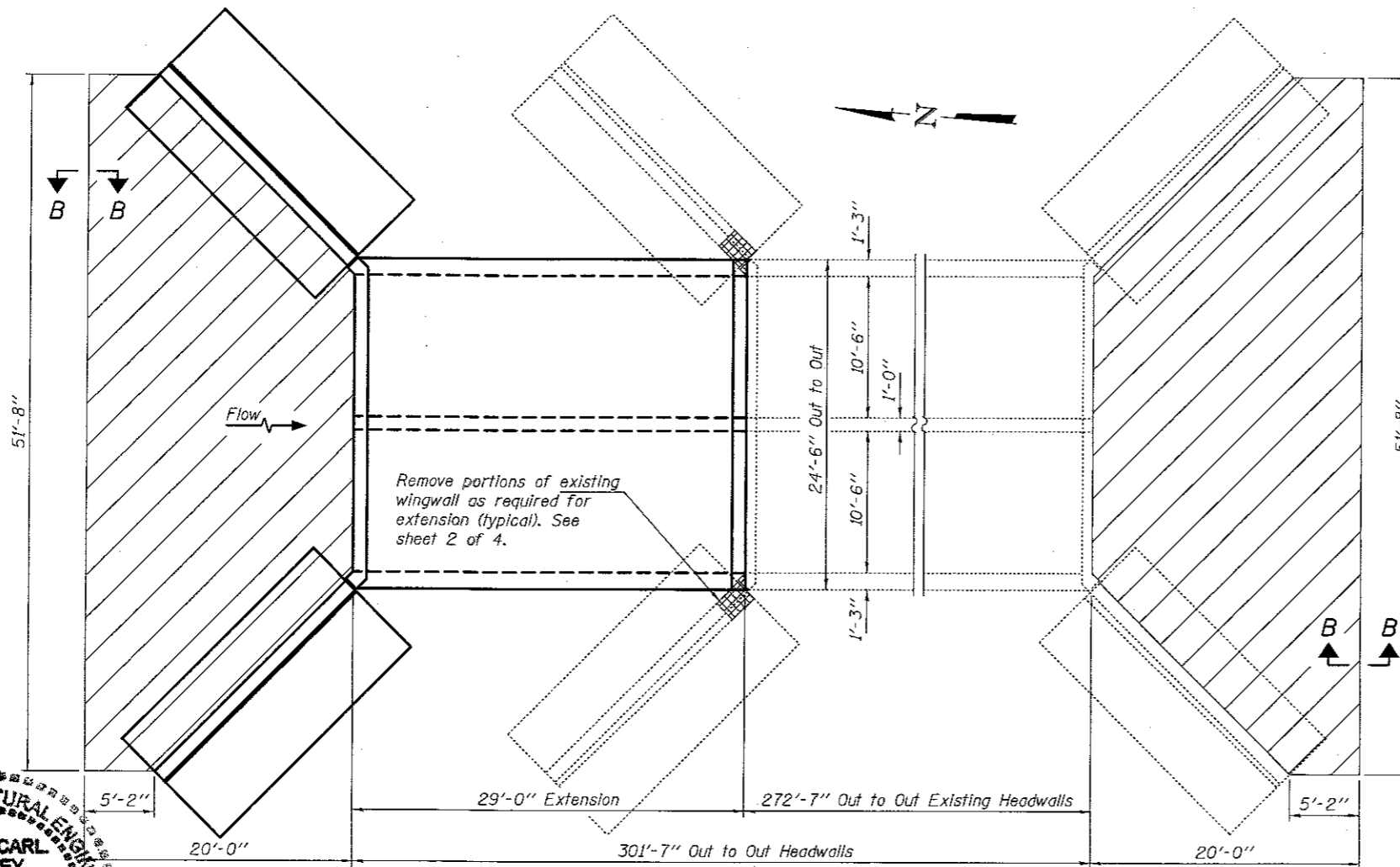
GENERAL NOTES

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.

Expansion bolts shall consist of approved expansion anchors, providing minimum certified proof load = 4,080 lbs., and 3/4" x 12" hooked bolts. All exposed edges shall have standard 3/4" chamfers. Reinforcement bars designated (E) shall be epoxy coated.

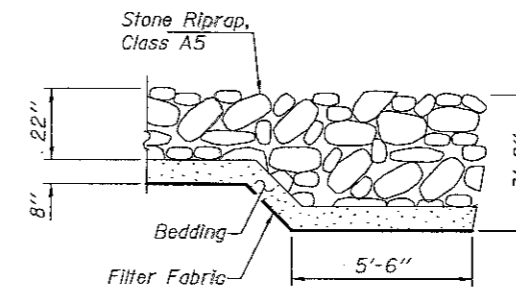


LONGITUDINAL SECTION



PLAN

The contractor shall excavate to the specified depth for placement of the Rock Fill Replacement under the culvert extensions and the wingwall footings (if present) and allow the District Inspectors to test and verify that the foundation soils have a minimum Q_u of at least 2.5 tsf. If the required soil strength is not present, the Contractor shall excavate an additional depth and width as directed by the Engineer to locate suitable strength material. The excavated area shall then be backfilled to the proper elevations using Rockfill capped with 6" of Coarse Aggregate. Cost of excavation and backfill material will be paid for per Art. 109.04 (b) of the Standard Specifications



SECTION B-B

Cost of any excavation necessary for placement of riprap or bedding material shall be included with Stone Riprap, Class A5

- Limits of Stone Riprap, Class A5

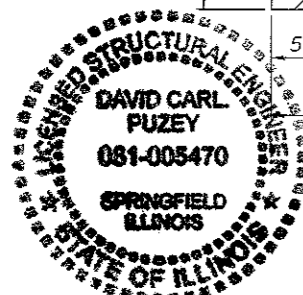
TOTAL BILL OF MATERIAL

ITEM	UNIT	TOTAL
Concrete Removal	Cu. Yd.	4.6
Concrete Box Culverts	Cu. Yd.	164.8
Reinforcement Bars	Pound	35400
Reinforcement Bars, Epoxy Coated	Pound	2500
Expansion Bolts 3/4"	Each	48
Structure Excavation	Cu. Yd.	238
Stone Riprap, Class A5	Sq. Yd.	179.7
Filter Fabric	Sq. Yd.	179.7
Rock-Fill Replacement	Ton	57

DESIGN STRESSES

FIELD UNITS

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



EXPIRES 11-30-2018

DESIGNED *[Signature]*
 CHECKED *[Signature]*
 DRAWN *[Signature]*
 CHECKED *[Signature]*

PASSED

[Signature]
 ENGINEER OF BRIDGES AND STRUCTURES

DATE MAY 12, 2017

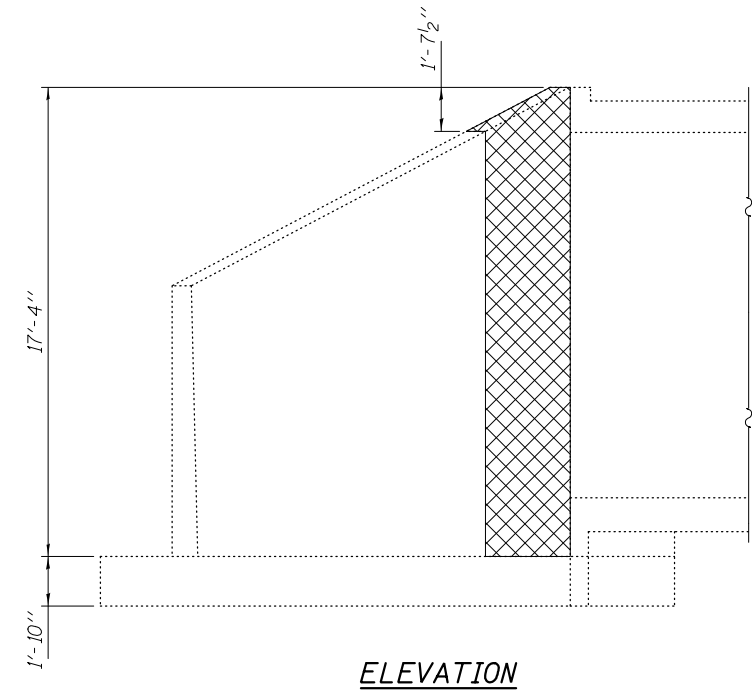
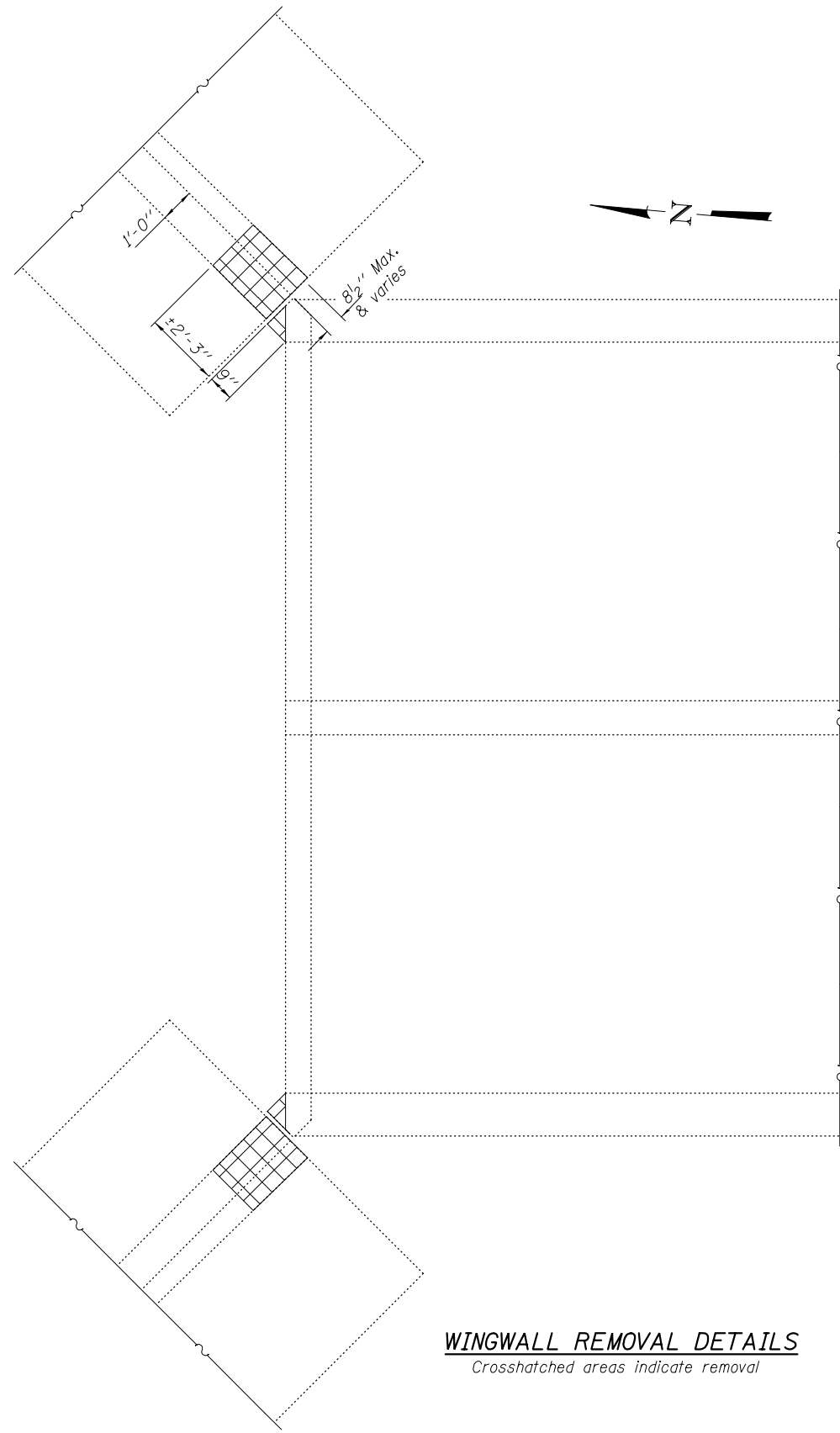
REVISED
 REVISED


STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

PLAN AND ELEVATION
 FAI 70
 SN 025-2001

SHEET NO. 1 OF 4 SHEETS

F.A.J. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	(25-1.2)R	EFFINGHAM	424	158
				CONTRACT NO. 74664
ILLINOIS FED. AID PROJECT				



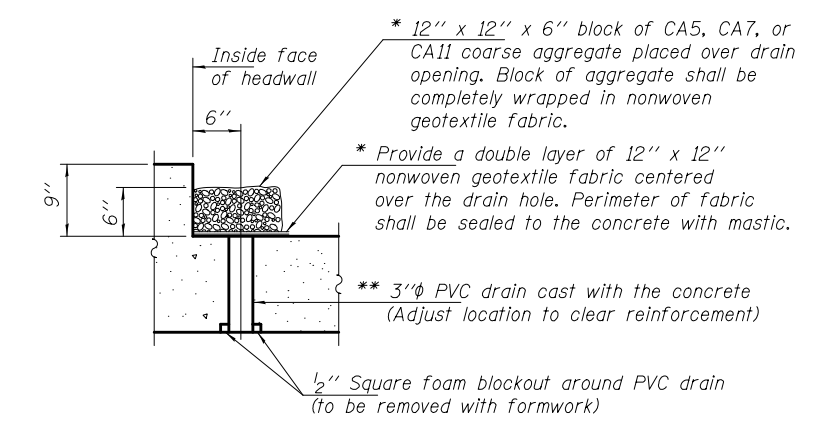
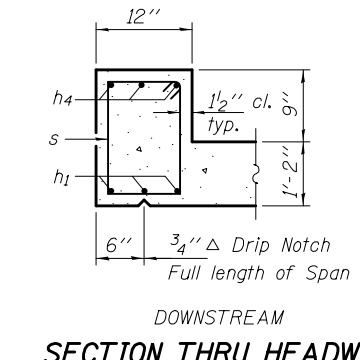
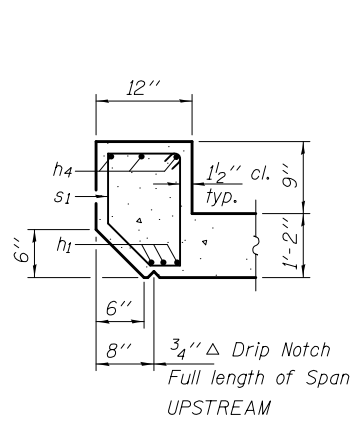
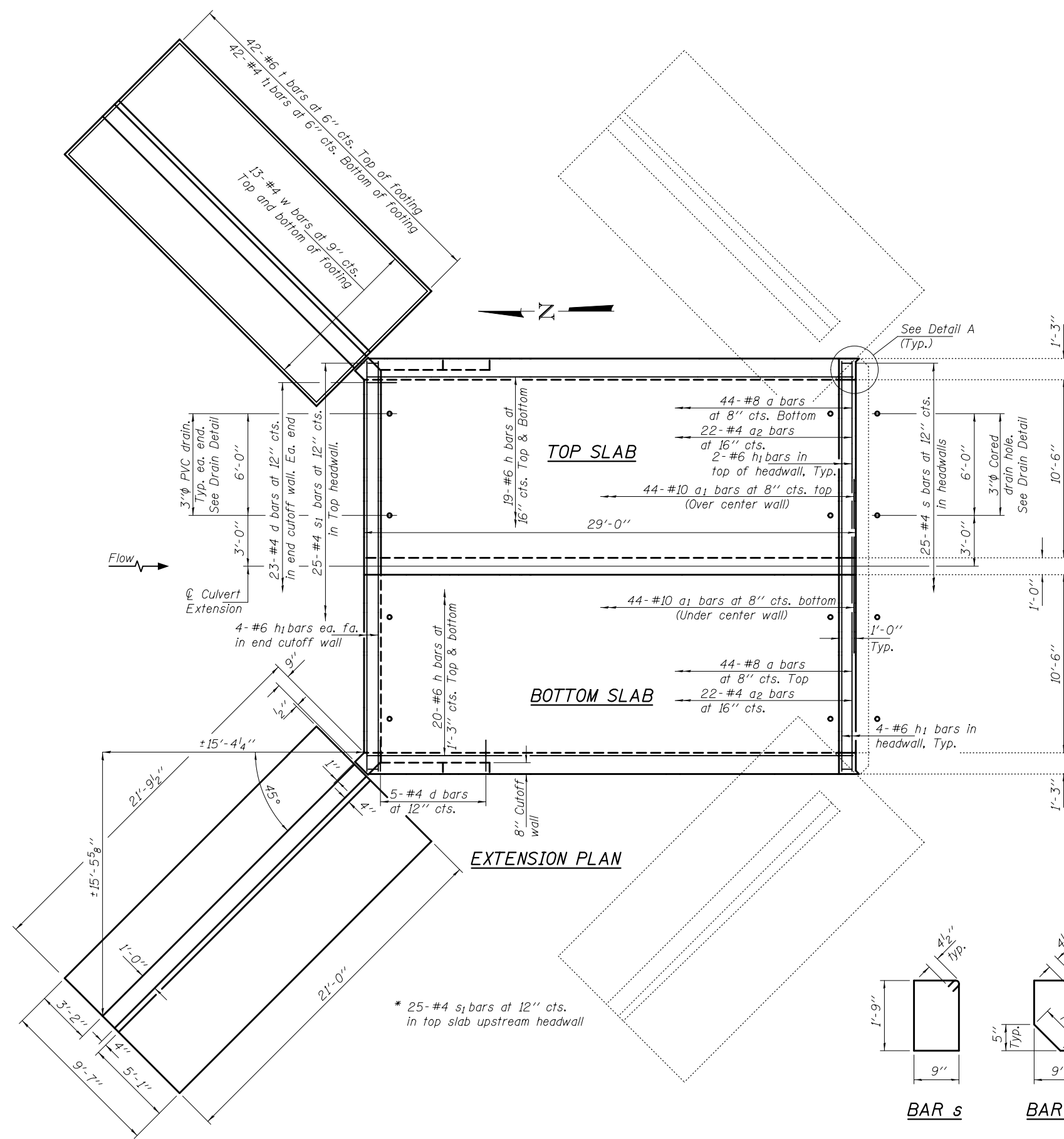
DESIGNED <i>CCC</i>	EXAMINED	DATE <i>MAY 12, 2017</i>
CHECKED <i>SMR</i>	PASSED	REVISOR
DRAWN <i>baliva</i>	 ENGINEER OF BRIDGES AND STRUCTURES	REVISOR
CHECKED <i>CCC SMR</i>		REVISOR

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

REMOVAL DETAILS
SN 025-2001

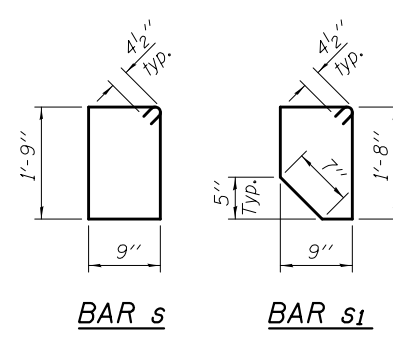
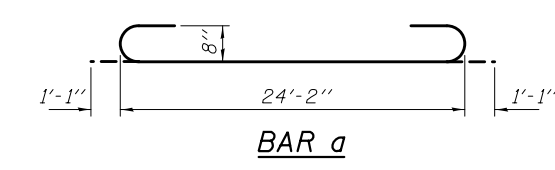
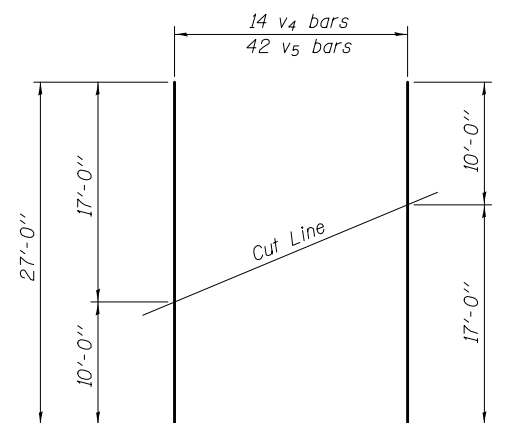
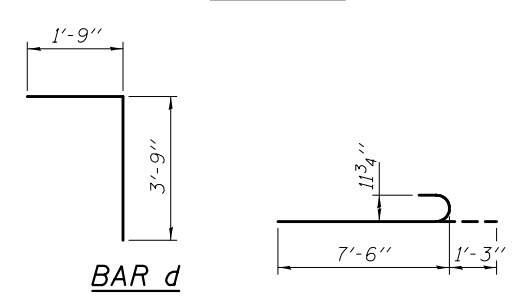
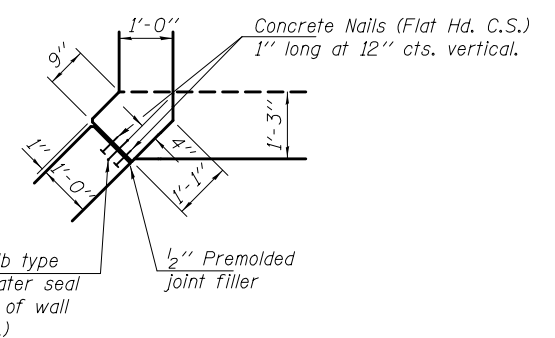
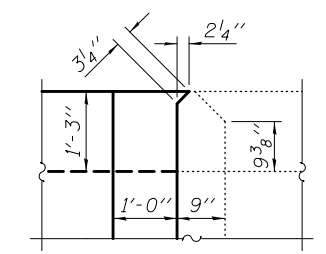
SHEET NO. 2 OF 4 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	125-1,2/R	EFFINGHAM	424	159
CONTRACT NO. 74664			ILLINOIS FED. AID PROJECT	

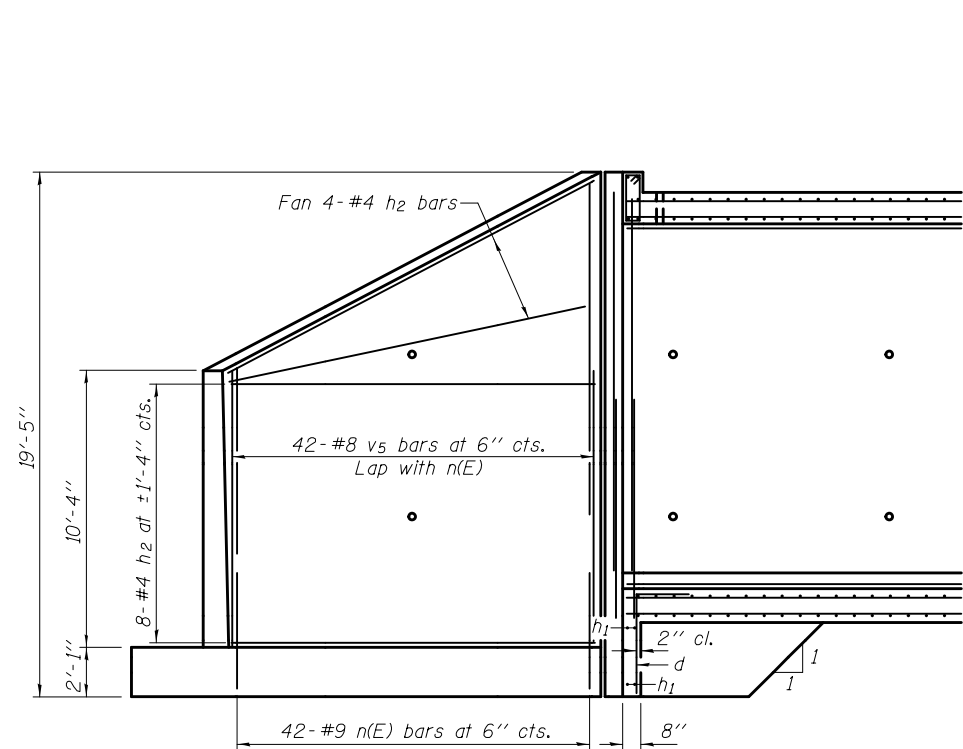


(All costs associated with furnishing and constructing the above drain detail will not be measured for payment but shall be included in the contract unit price for Concrete Box Culverts.)

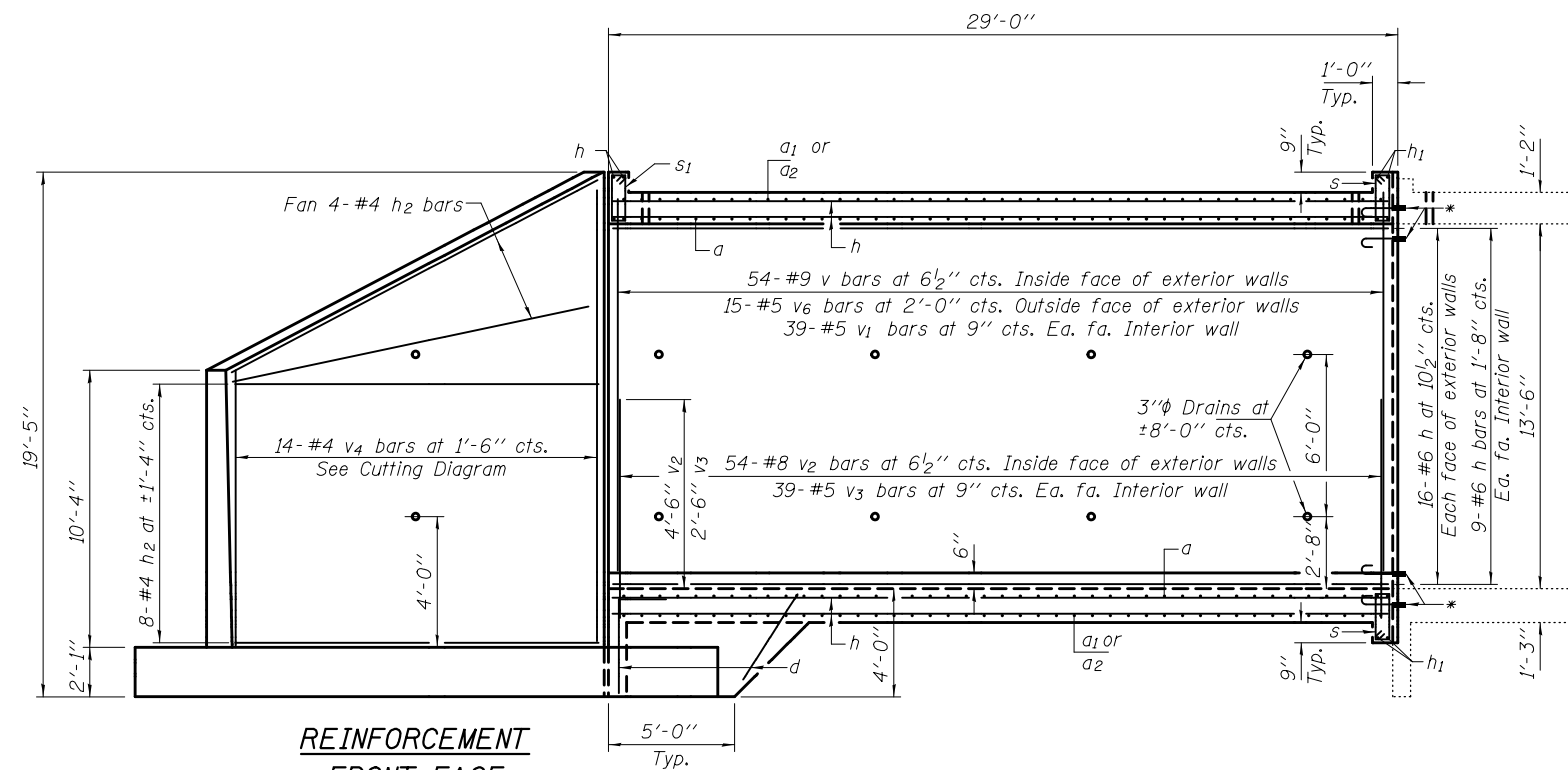
* Nonwoven geotextile fabric shall conform to the requirements of Article 1080.01 of the Standard Specifications. The minimum weight of the fabric shall be 6 ounces per square yard.
 ** 3" φ Cored drain hole in existing culvert. Cost included with Concrete Box Culverts.



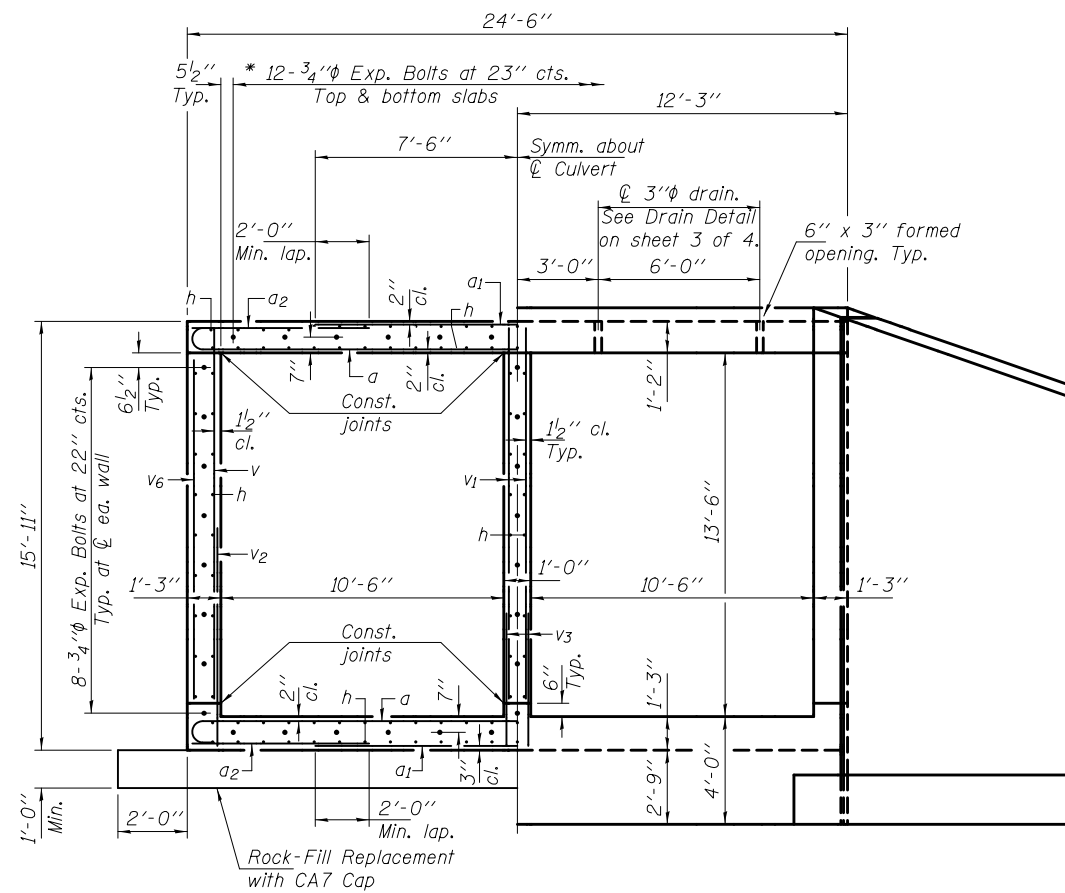
DESIGNED CCC	EXAMINED	DATE MAY 12, 2017	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	CULVERT EXTENSION DETAILS SN 025-2001	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
CHECKED SMR	PASSED	REVISOR			70	125-1,2R	EFFINGHAM	424	160	
DRAWN baliva	ENGINEER OF BRIDGES AND STRUCTURES				CONTRACT NO. 74664		ILLINOIS FED. AID PROJECT			
CHECKED CCC SMR					SHEET NO. 3 OF 4 SHEETS					



**REINFORCEMENT
BACK FACE**

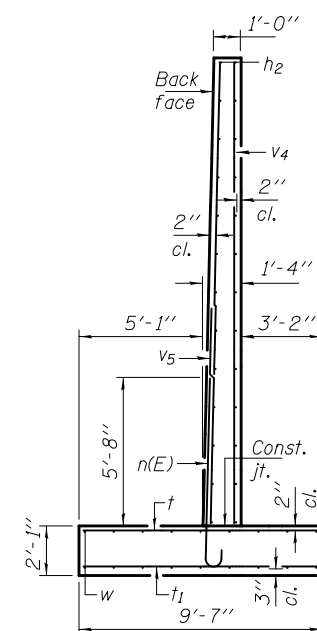


**REINFORCEMENT
FRONT FACE**



**HALF SECTION
THRU BARRELS** **HALF END ELEVATION**

* Expansion bolts shall be 3/4" φ hooked bolts and shall extend a minimum of 9" into new concrete.



SECTION THRU WING

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a	88	#8	26'-4"	┌┐
a1	88	#10	15'-0"	—
a2	88	#4	6'-2"	—
d	33	#4	5'-6"	└┘
h	160	#6	28'-8"	—
h1	16	#6	24'-2"	—
h2	48	#4	19'-9"	—
n(E)	84	#9	8'-9"	┌┐
s	50	#4	5'-9"	□
s1	25	#4	5'-3"	□
t	84	#6	9'-4"	—
t1	84	#4	9'-4"	—
v	108	#9	14'-4"	—
v1	78	#5	14'-4"	—
v2	108	#8	5'-6"	—
v3	78	#5	3'-6"	—
v4	28	#4	27'-0"	—
v5	42	#8	27'-0"	—
v6	30	#5	13'-3"	—
w	52	#4	20'-9"	—
Concrete Removal			Cu. Yd.	4.6
Expansion Bolts 3/4"			Each	48
Reinforcement Bars			Lbs.	35400
Reinforcement Bars, Epoxy Coated			Lbs.	2500
Concrete Box Culverts			Cu. Yd.	164.8

DESIGNED CCC	EXAMINED	DATE MAY 12, 2017
CHECKED SMR	PASSED	REVISOR
DRAWN baliva	ENGINEER OF BRIDGES AND STRUCTURES	REVISOR
CHECKED CCC SMR		

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**CULVERT EXTENSION DETAILS
SN 025-2001**

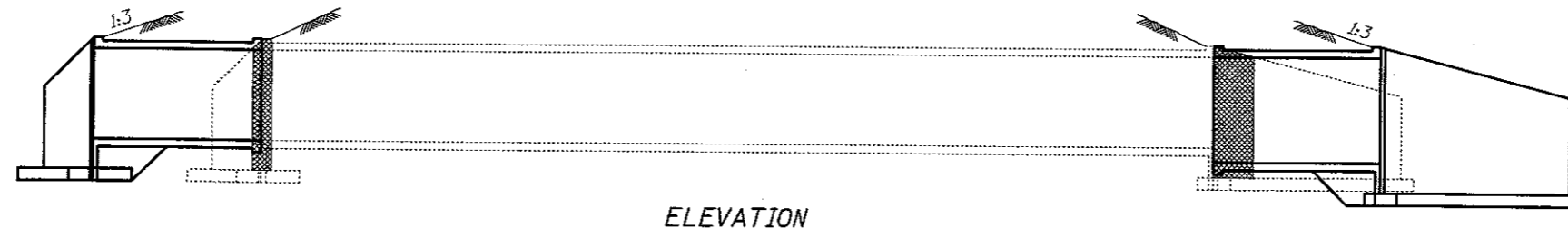
SHEET NO. 4 OF 4 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	125-1,21R	EFFINGHAM	424	161
CONTRACT NO. 74664			ILLINOIS FED. AID PROJECT	

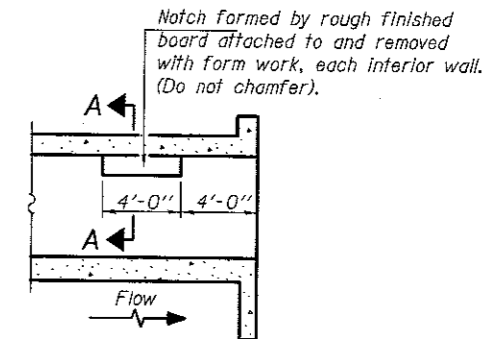
GENERAL NOTES

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.

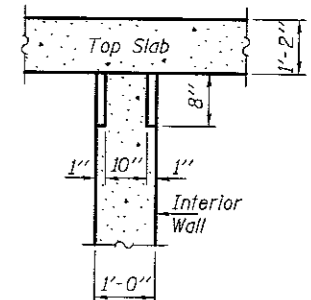
Expansion bolts shall consist of approved expansion anchors, providing minimum certified proof load = 4,080 lbs., and 3/4" x 12" hooked bolts. All exposed edges shall have standard 3/4" chamfers. Reinforcement bars designated (E) shall be epoxy coated.



ELEVATION

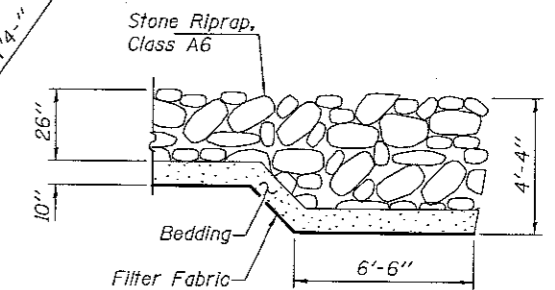


LONGITUDINAL SECTION



SECTION A-A

**PHOEBE NESTING
SITE DETAILS
(Downstream End Only)**

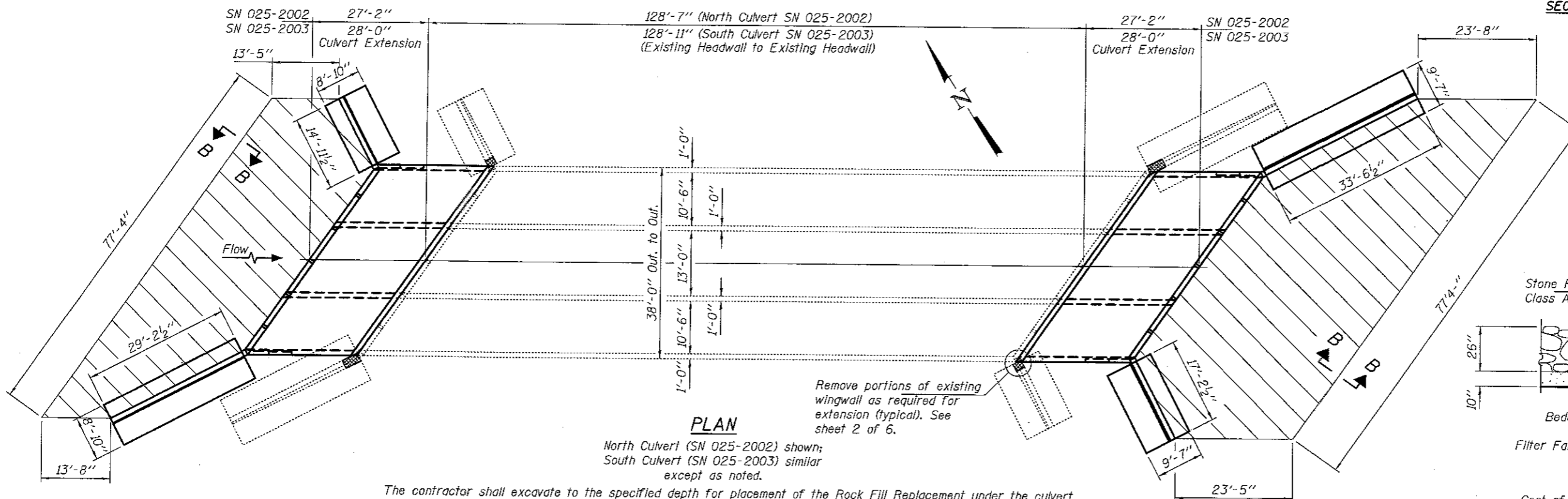


SECTION B-B

Cost of any excavation necessary for placement of riprap or bedding material shall be included with Stone Riprap, Class A6.

TOTAL BILL OF MATERIAL

ITEM	UNIT	TOTAL
Concrete Removal	Cu. Yd.	14.6
Concrete Box Culverts	Cu. Yd.	808.9
Reinforcement Bars	Pound	240950
Reinforcement Bars, Epoxy Coated	Pound	11430
Expansion Bolts 3/4"	Each	280
Structure Excavation	Cu. Yd.	734.8
Stone Riprap, Class A6	Sq. Yd.	992
Filter Fabric	Sq. Yd.	992
Rock-Fill Replacement	Ton	323



PLAN

North Culvert (SN 025-2002) shown;
South Culvert (SN 025-2003) similar
except as noted.

Remove portions of existing wingwall as required for extension (typical). See sheet 2 of 6.

The contractor shall excavate to the specified depth for placement of the Rock Fill Replacement under the culvert extensions and the wingwall footings (if present) and allow the District inspectors to test and verify that the foundation soils have a minimum Q_u of at least 2.5 tsf. If the required soil strength is not present, the Contractor shall excavate an additional depth and width as directed by the Engineer to locate suitable strength material. The excavated area shall then be backfilled to the proper elevations using Rockfill capped with 6" of Coarse Aggregate. Cost of excavation and backfill material will be paid for per Art. 109.04 (b) of the Standard Specifications

- Limits of Stone Riprap, Class A6

**DESIGN STRESSES
FIELD UNITS**

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



EXPIRES 11-30-2018

DESIGNED *Staple*
CHECKED *baiva*
DRAWN *baiva*
CHECKED *DK*

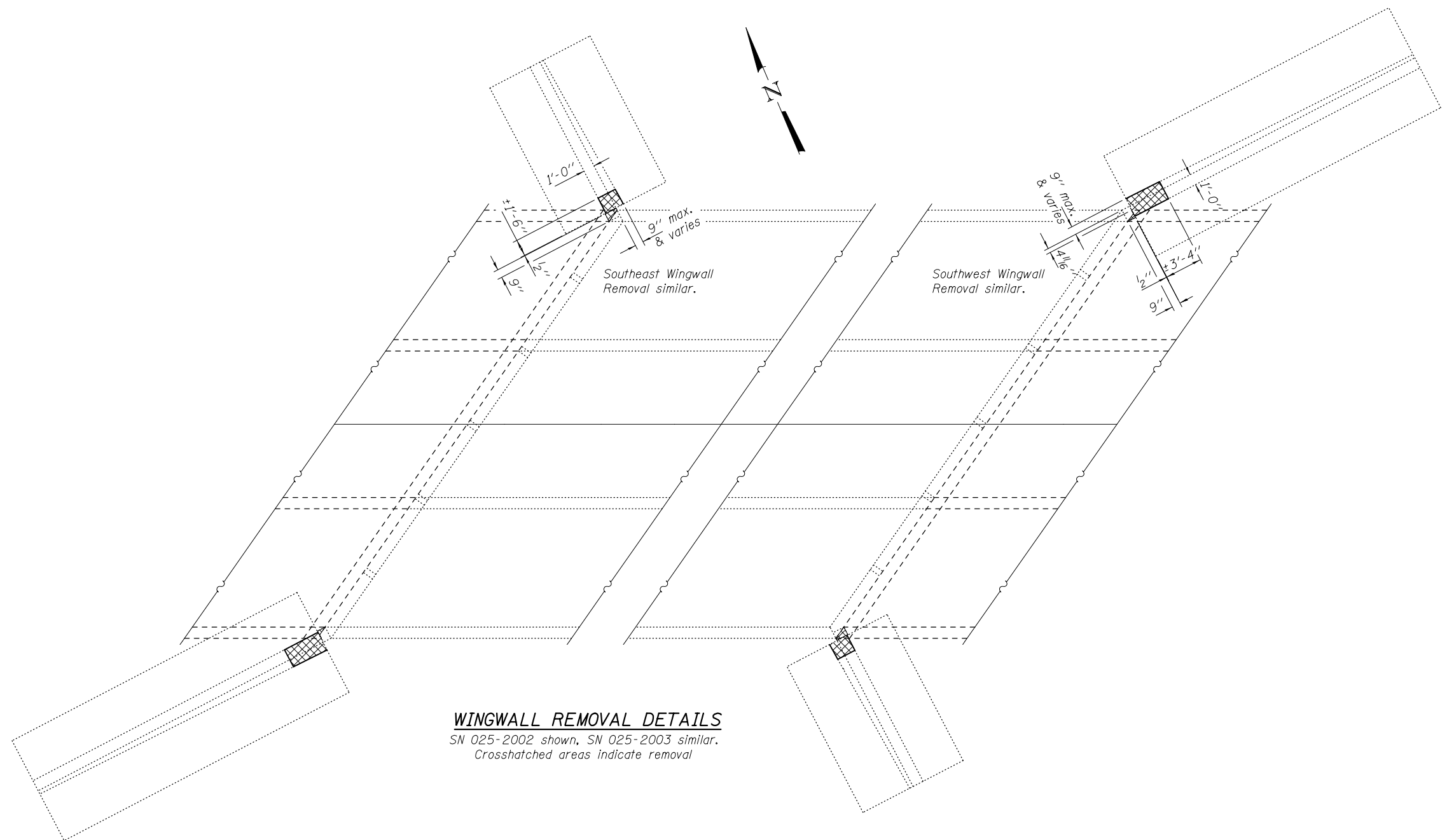
PASSED *David Carl Puzey*
ENGINEER OF BRIDGES AND STRUCTURES

DATE MAY 12, 2017
REVISED
REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PLAN AND ELEVATION
FAI 70 OVER SECOND CREEK
SN 025-2002 (VB) & 2003 (EB)
SHEET NO. 1 OF 6 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	125-1,21R	EFFINGHAM	424	162
				CONTRACT NO. 74664
ILLINOIS FED. AID PROJECT				



WINGWALL REMOVAL DETAILS
 SN 025-2002 shown, SN 025-2003 similar.
 Crosshatched areas indicate removal

DESIGNED *SMR*
 CHECKED *CCC*
 DRAWN *baliva*
 CHECKED *SMR CCC*

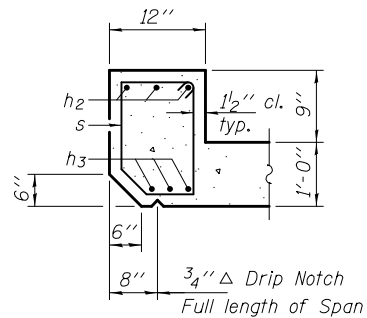
EXAMINED
 PASSED *Carl Pinger*
 ENGINEER OF BRIDGES AND STRUCTURES

DATE *MAY 12, 2017*
 REVISED
 REVISED

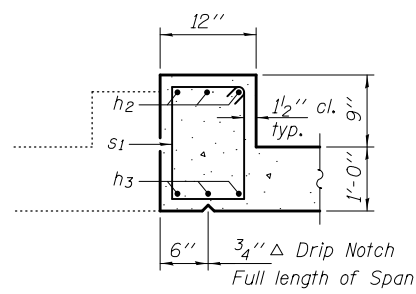
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

REMOVAL DETAILS
SN 025-2002 (WB) & 2003 (EB)
 SHEET NO. 2 OF 6 SHEETS

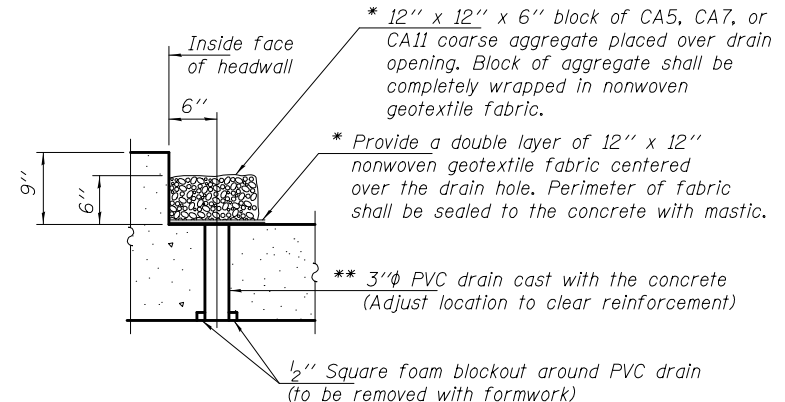
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	125-1,2/R	EFFINGHAM	424	163
CONTRACT NO. 74664			ILLINOIS FED. AID PROJECT	



SECTION A-A



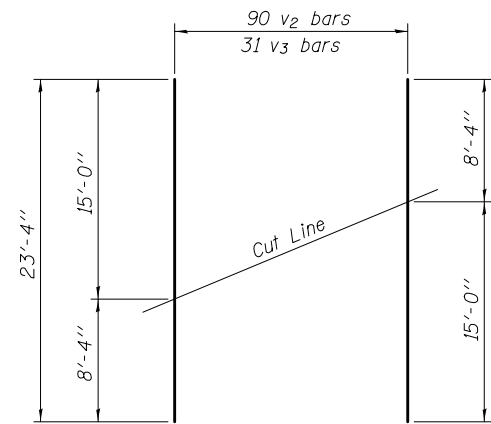
SECTION B-B



DRAIN DETAIL

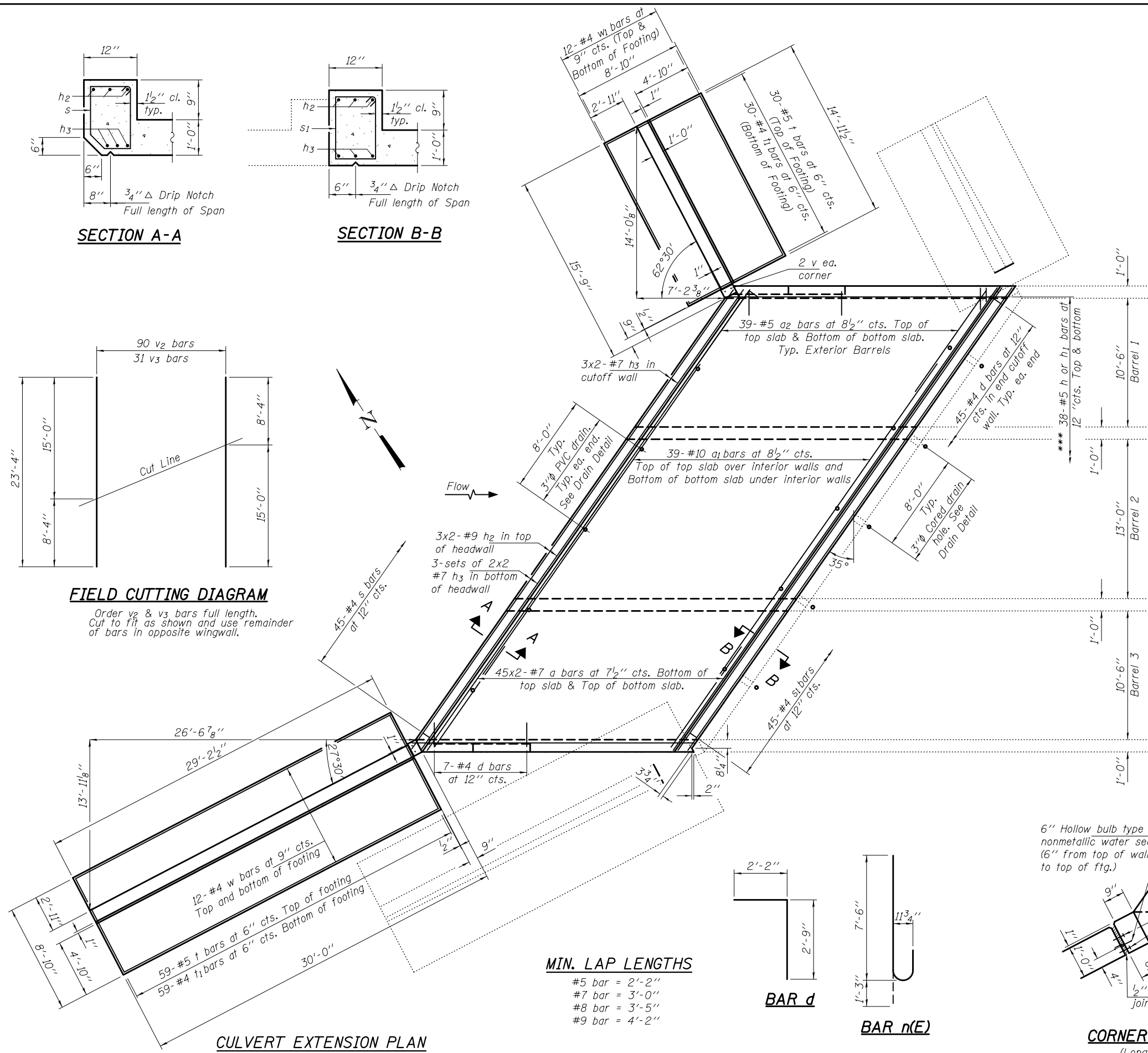
(All costs associated with furnishing and constructing the above drain detail will not be measured for payment but shall be included in the contract unit price for Concrete Box Culverts.)

* Nonwoven geotextile fabric shall conform to the requirements of Article 1080.01 of the Standard Specifications. The minimum weight of the fabric shall be 6 ounces per square yard.
 ** 3" ϕ Cored drain hole in existing culvert. Cost included with Concrete Box Culverts.
 *** Use h bars in slabs of SN 025-2002 (WB); use h_1 bars in slabs of SN 025-2003 (EB)



FIELD CUTTING DIAGRAM

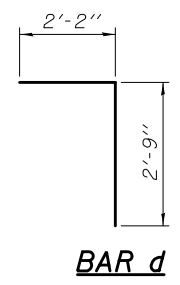
Order v_2 & v_3 bars full length. Cut to fit as shown and use remainder of bars in opposite wingwall.



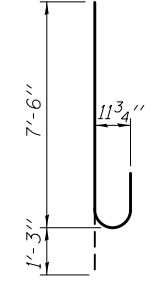
CULVERT EXTENSION PLAN

MIN. LAP LENGTHS

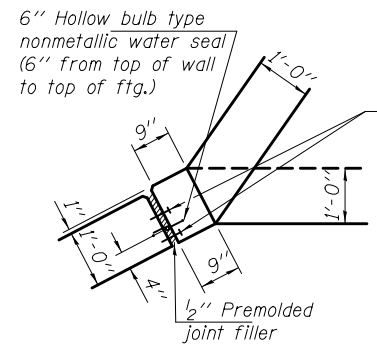
- #5 bar = 2'-2"
- #7 bar = 3'-0"
- #8 bar = 3'-5"
- #9 bar = 4'-2"



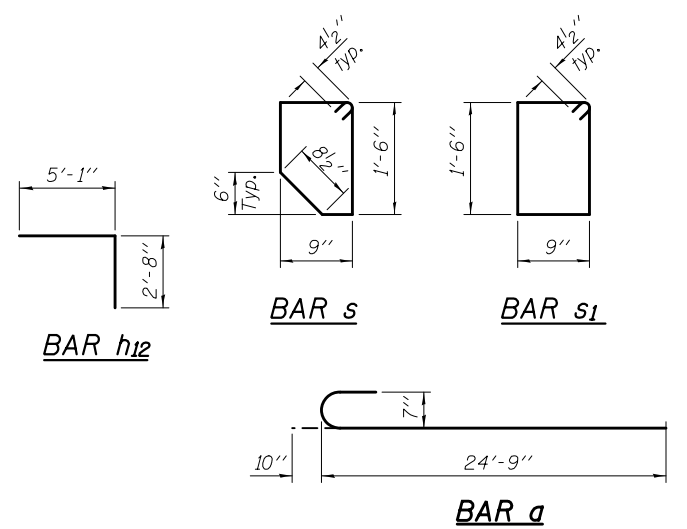
BAR d



BAR n(E)



CORNER DETAIL
(Long Wing)

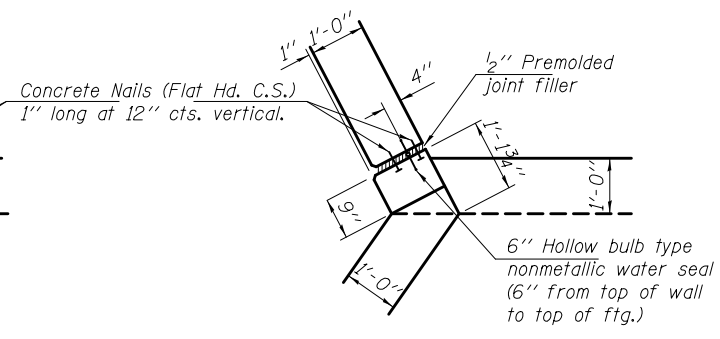


BAR h12

BAR s

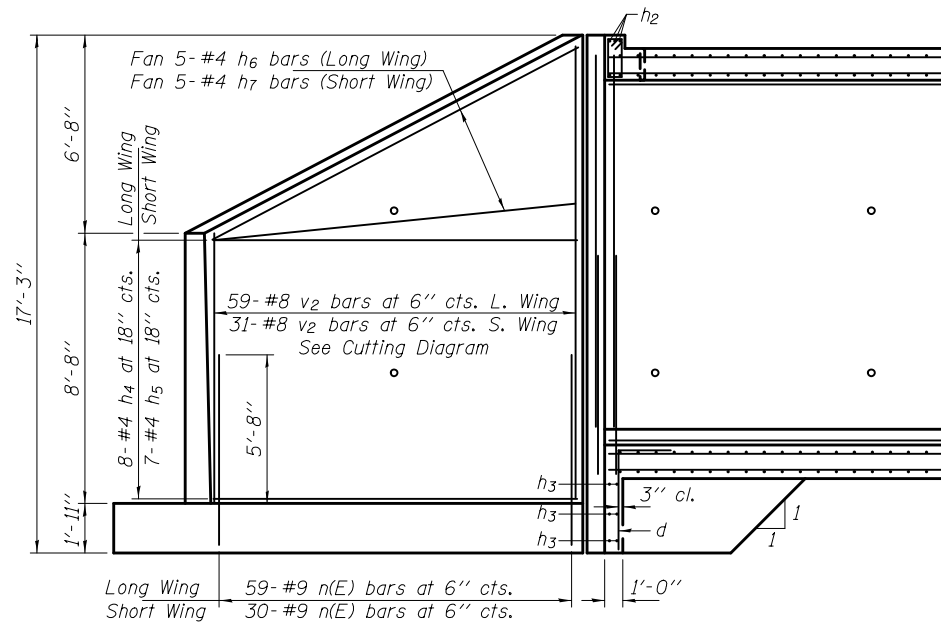
BAR s1

BAR a

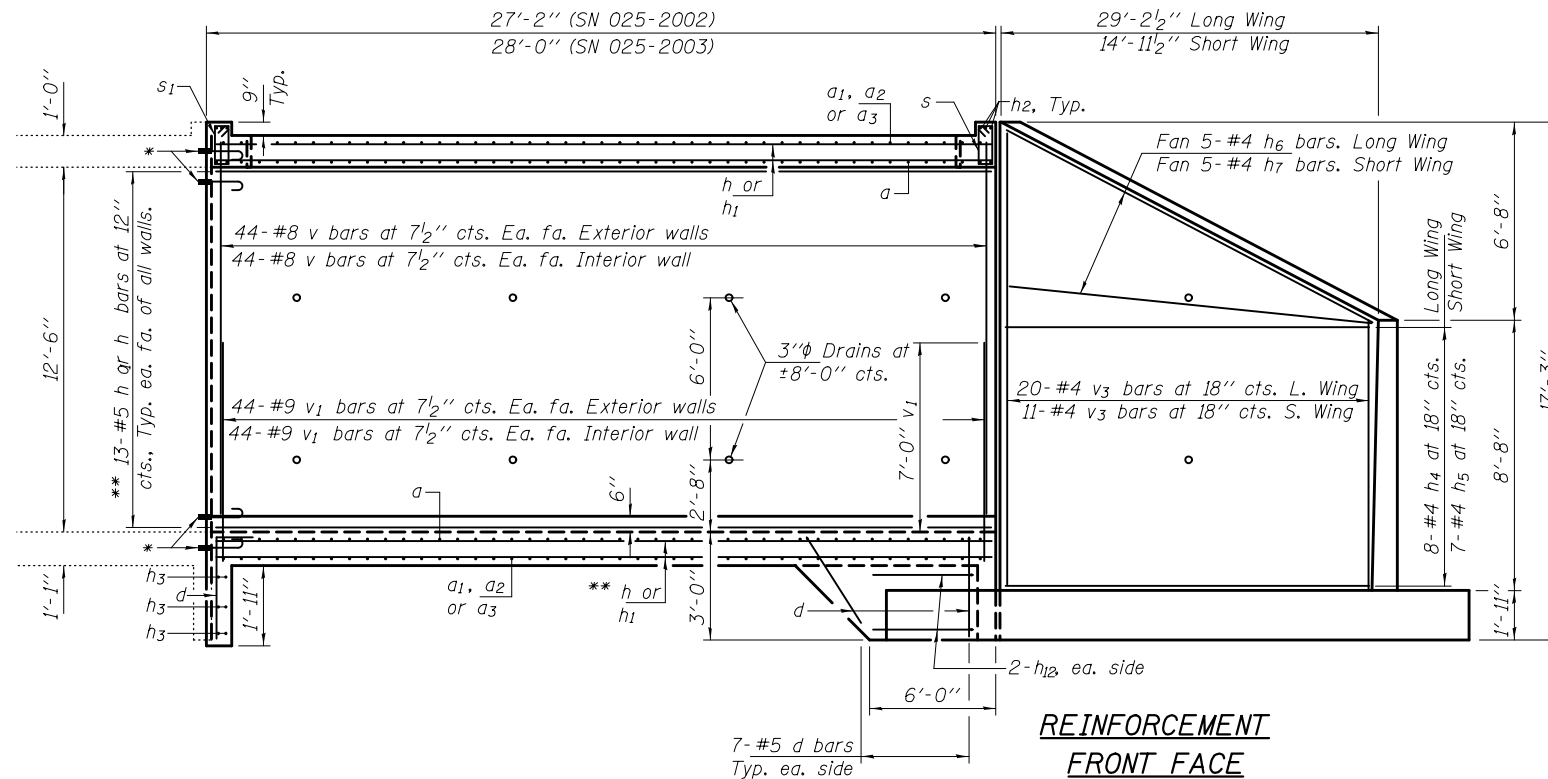


CORNER DETAIL
(Short Wing)

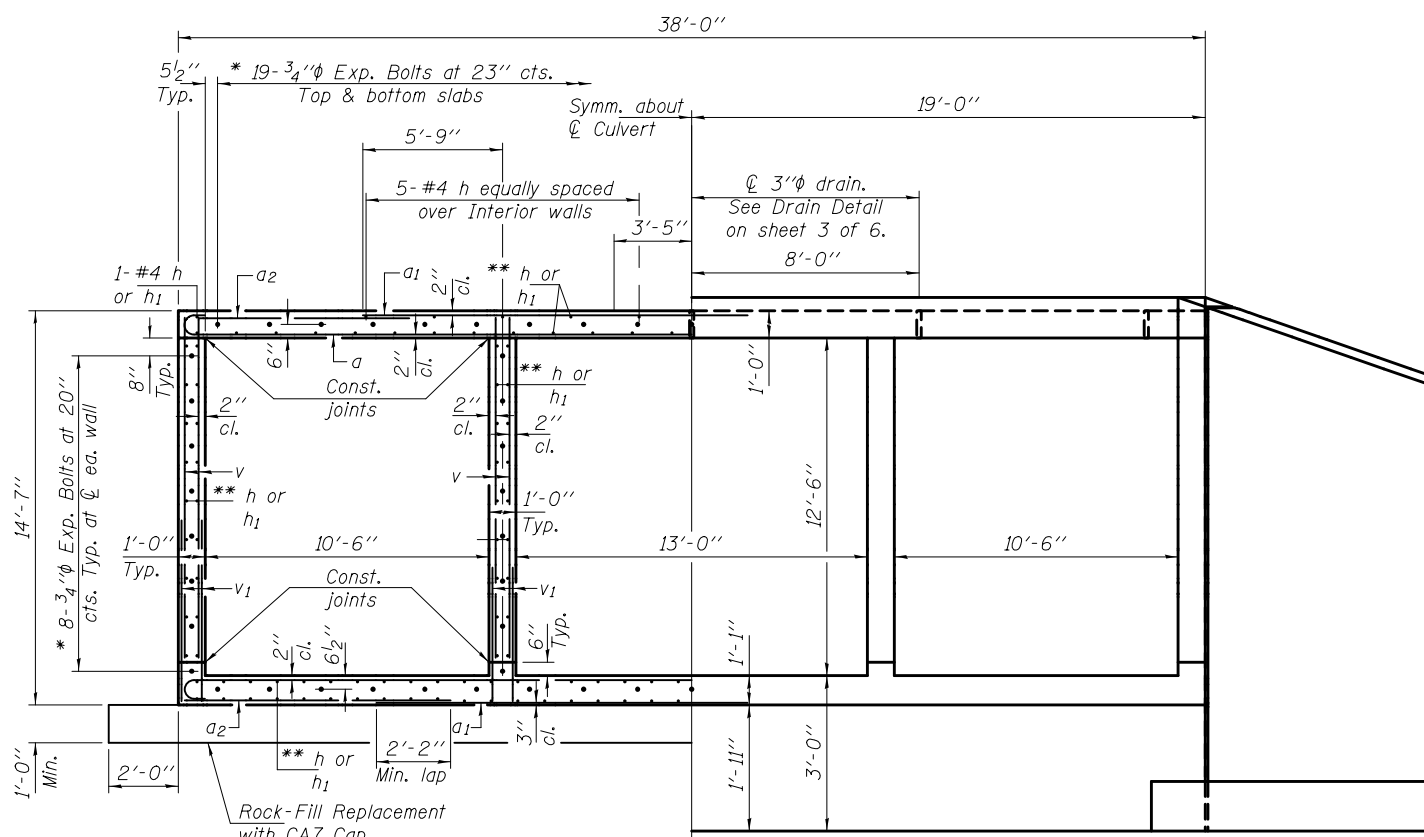
DESIGNED SMR	EXAMINED	DATE MAY 12, 2017	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	UPSTREAM CULVERT EXTENSION DETAILS SN 025-2002 (WB) & 2003 (EB)	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CHECKED CCC	PASSED	REVIS			70	125-1,2R	EFFINGHAM	424	164
DRAWN baliva	<i>A. Carl Pinger</i> ENGINEER OF BRIDGES AND STRUCTURES	REVIS			CONTRACT NO. 74664			ILLINOIS FED. AID PROJECT	
CHECKED SMR CCC		REVIS			SHEET NO. 3 OF 6 SHEETS				



**REINFORCEMENT
BACK FACE**

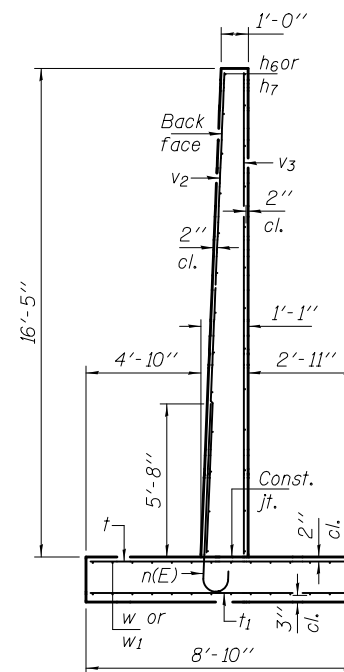


**REINFORCEMENT
FRONT FACE**



**HALF SECTION
THRU BARRELS**

HALF END ELEVATION



* Expansion bolts shall be 3/4" hooked bolts and shall extend a minimum of 9" into new concrete.
** Use h bars in slabs of SN 025-2002 (WB); use h1 bars in slabs of SN 025-2003 (EB)

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a	360	#7	25'-8"	C
a1	156	#10	31'-2"	—
a2	312	#5	10'-0"	—
d	208	#4	4'-11"	L
h	256	#5	26'-10"	—
h1	256	#5	27'-8"	—
h2	24	#9	25'-2"	—
h3	72	#7	24'-8"	—
h4	16	#4	28'-11"	—
h5	16	#4	14'-7"	—
h6	20	#4	29'-9"	—
h7	20	#4	16'-0"	—
h12	8	#4	7'-9"	L
n(E)	178	#9	8'-9"	J
s	90	#4	5'-0"	D
s1	90	#4	5'-3"	D
t	89	#5	8'-6"	—
t1	89	#4	8'-6"	—
v	708	#8	12'-9"	—
v1	704	#9	7'-10"	—
v2	90	#8	23'-4"	—
v3	31	#4	23'-4"	—
w	24	#4	28'-10"	—
w1	24	#4	14'-7"	—
Concrete Removal			Cu. Yd.	7.3
Expansion Bolts 3/4"			Each	140
Reinforcement Bars			Lbs.	116650
Reinforcement Bars, Epoxy Coated			Lbs.	5300
Concrete Box Culverts			Cu. Yd.	375.3

DESIGNED SMR
CHECKED CCC
DRAWN baliva
CHECKED SMR CCC

EXAMINED
PASSED
ENGINEER OF BRIDGES AND STRUCTURES

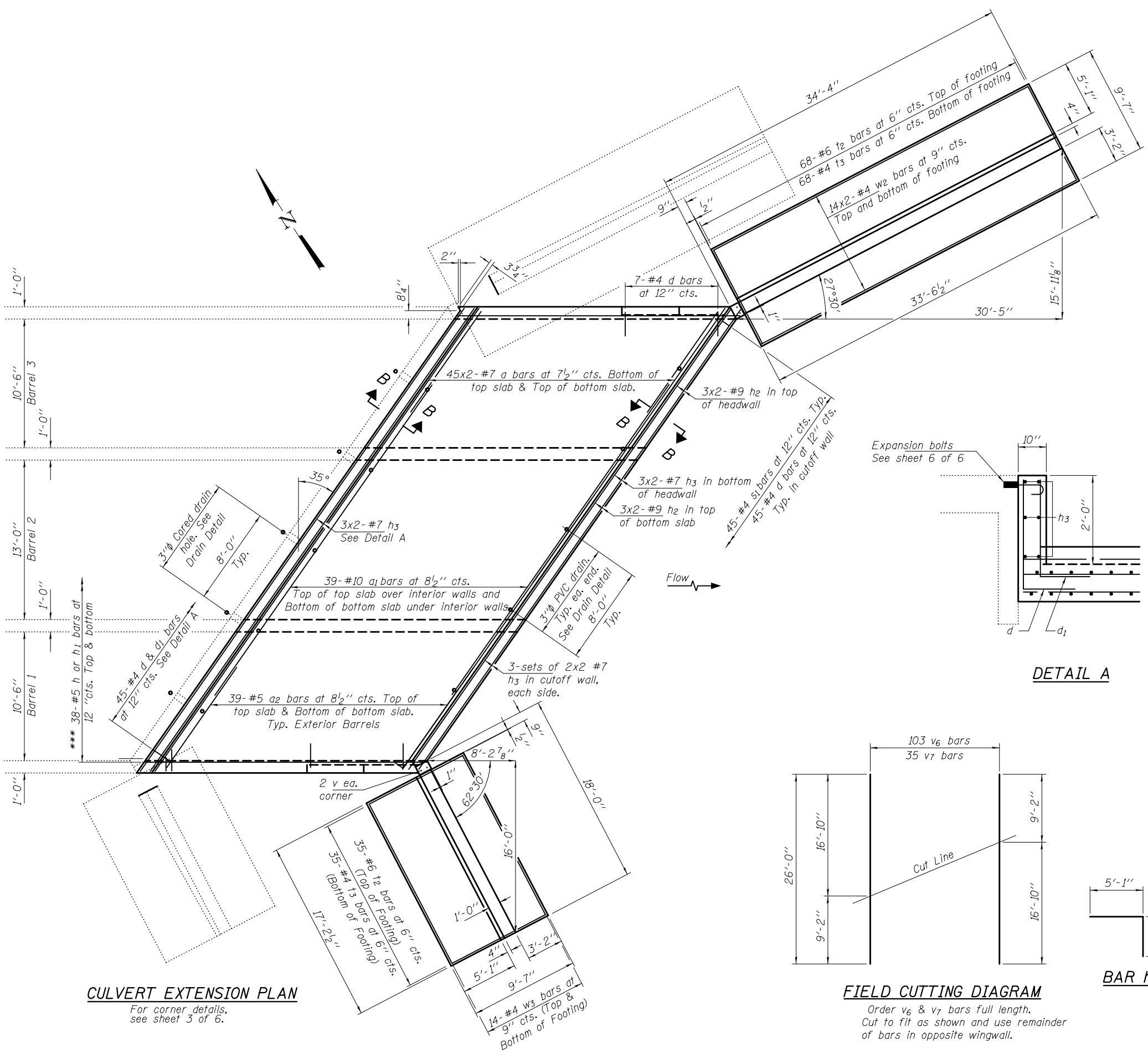
DATE MAY 12, 2017
REVISED
REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

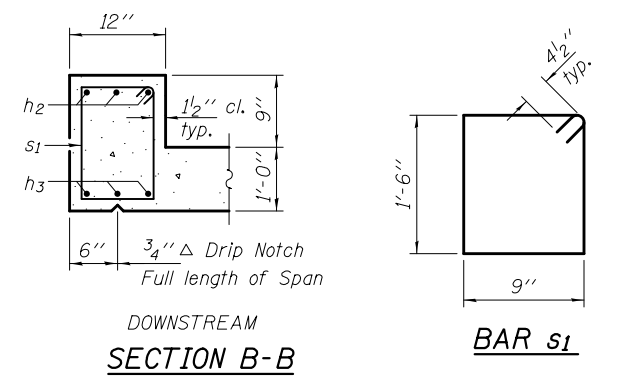
UPSTREAM CULVERT EXTENSION DETAILS
SN 025-2002 (WB) & 2003 (EB)

SHEET NO. 4 OF 6 SHEETS

F.A.I. SECTION COUNTY TOTAL SHEETS SHEET NO.
RTE. 70 125-121R EFFINGHAM 424 165
CONTRACT NO. 74664
ILLINOIS FED. AID PROJECT

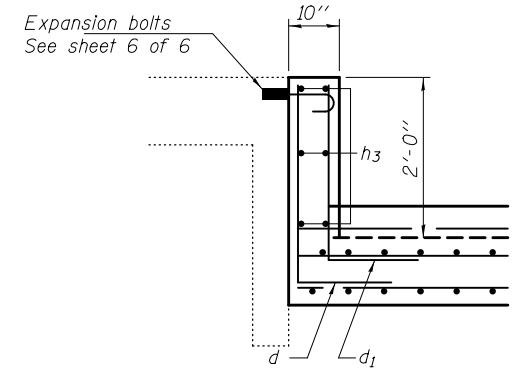


CULVERT EXTENSION PLAN
For corner details, see sheet 3 of 6.

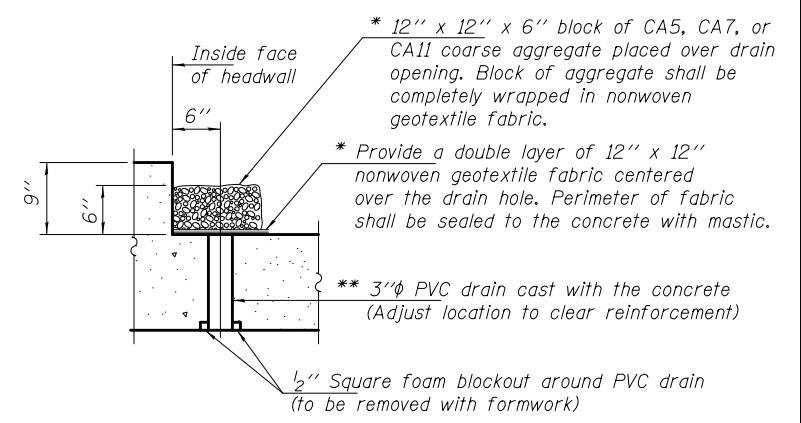


DOWNSTREAM SECTION B-B

BAR s1

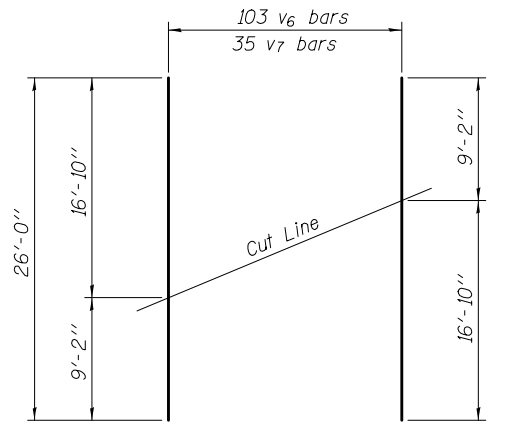


DETAIL A



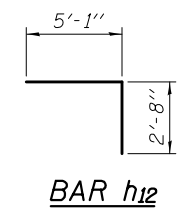
DRAIN DETAIL

(All costs associated with furnishing and constructing the above drain detail will not be measured for payment but shall be included in the contract unit price for Concrete Box Culverts.)
 * Nonwoven geotextile fabric shall conform to the requirements of Article 1080.01 of the Standard Specifications. The minimum weight of the fabric shall be 6 ounces per square yard.
 ** 3"φ Cored drain hole in existing culvert. Cost included with Concrete Box Culverts.
 *** Use h bars in slabs of SN 025-2002 (WB); use h1 bars in slabs of SN 025-2003 (EB)

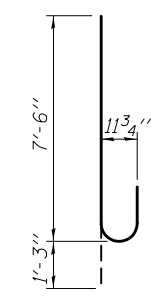


FIELD CUTTING DIAGRAM

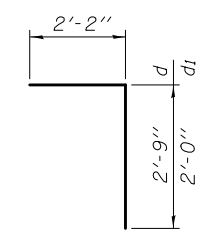
Order v6 & v7 bars full length. Cut to fit as shown and use remainder of bars in opposite wingwall.



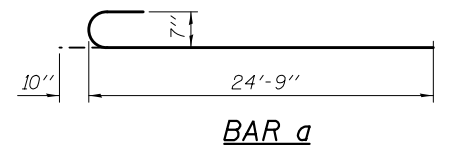
BAR h12



BAR n(E)



BARS d & d1

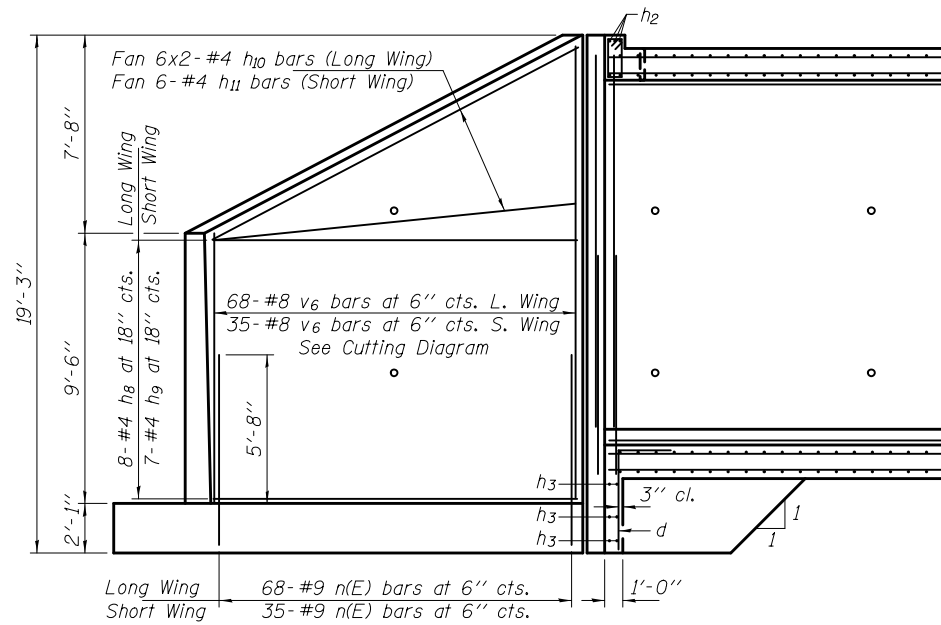


BAR a

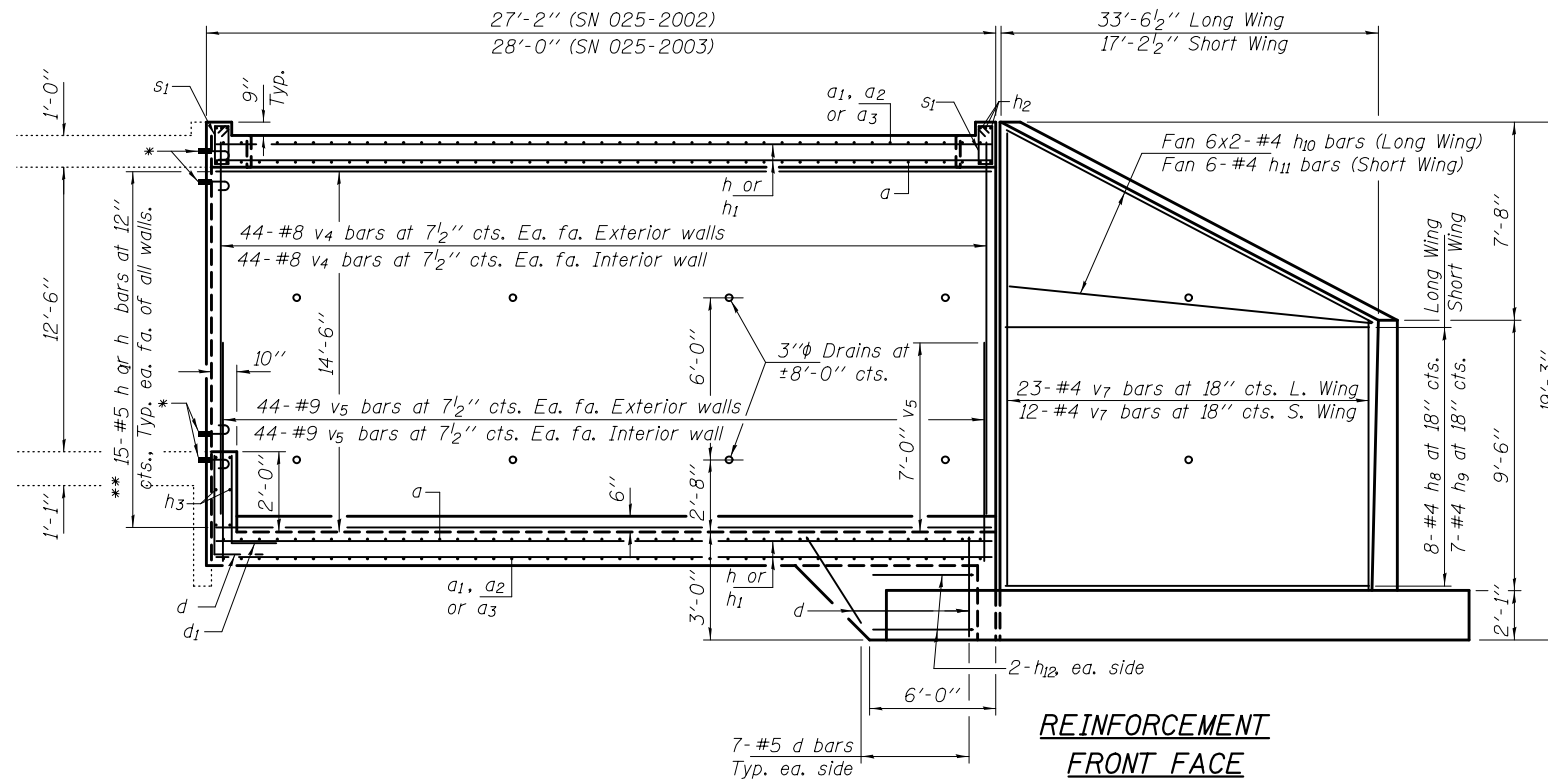
MIN. LAP LENGTHS

- #5 bar = 2'-2"
- #7 bar = 3'-0"
- #8 bar = 3'-5"
- #9 bar = 4'-2"

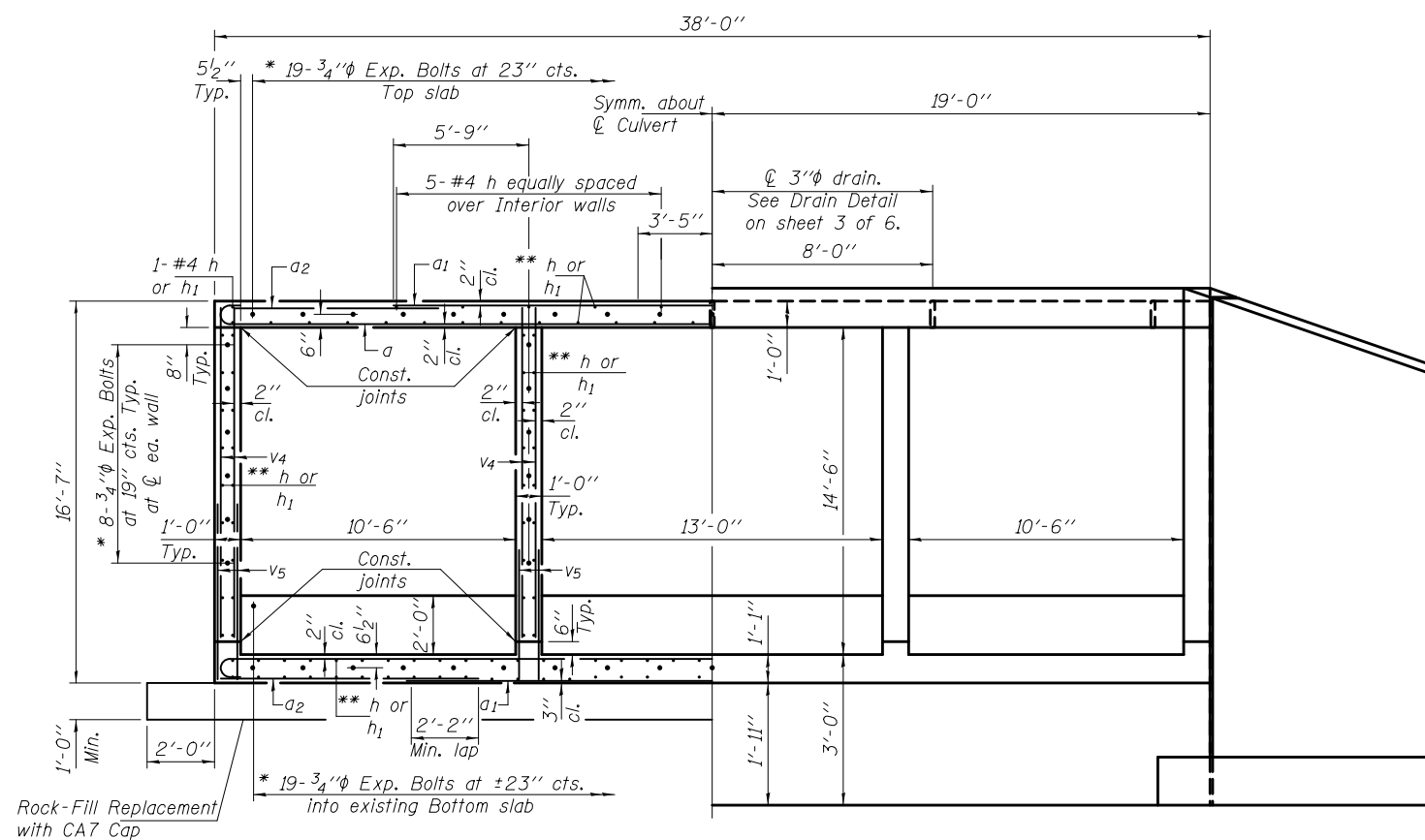
DESIGNED SMR	EXAMINED	DATE MAY 12, 2017	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DOWNSTREAM CULVERT EXTENSION DETAILS SN 025-2002 (WB) & 2003 (EB)	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
CHECKED CCC	PASSED	REVISOR			70	125-1,2R	EFFINGHAM	424	166	
DRAWN baliva	ENGINEER OF BRIDGES AND STRUCTURES	REVISOR			CONTRACT NO. 74664					
CHECKED SMR CCC		REVISOR			SHEET NO. 5 OF 6 SHEETS					
					ILLINOIS FED. AID PROJECT					



**REINFORCEMENT
BACK FACE**

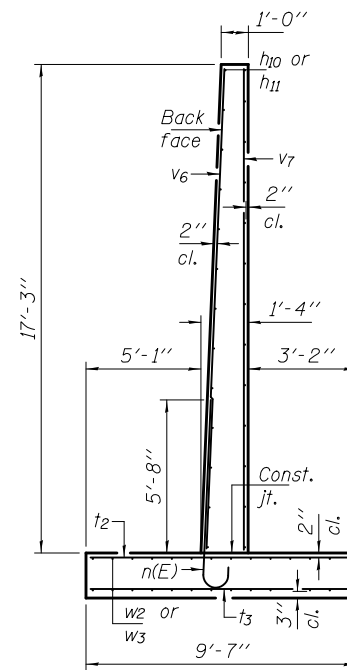


**REINFORCEMENT
FRONT FACE**



**HALF SECTION
THRU BARRELS**

HALF END ELEVATION



MIN. LAP LENGTHS
#4 bar = 1'-9"

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a	360	#7	25'-7"	C
a1	156	#10	31'-2"	—
a2	312	#5	10'-0"	—
d	208	#4	4'-11"	L
d1	90	#4	4'-2"	L
h	272	#5	26'-10"	—
h1	272	#5	27'-8"	—
h2	24	#9	25'-2"	—
h3	72	#7	24'-8"	—
h8	16	#4	33'-2"	—
h9	16	#4	16'-10"	—
h10	24	#4	17'-11"	—
h11	12	#4	18'-7"	—
h12	8	#4	7'-9"	L
n(E)	206	#9	8'-9"	U
s1	180	#4	5'-3"	□
t2	103	#6	9'-3"	—
t3	103	#4	9'-3"	—
v4	712	#8	14'-9"	—
v5	704	#9	5'-7"	—
v6	103	#8	26'-0"	—
v7	35	#4	26'-0"	—
w2	56	#4	17'-7"	—
w3	28	#4	16'-1"	—
Concrete Removal			Cu. Yd.	7.3
Expansion Bolts 3/4"			Each	140
Reinforcement Bars			Lbs.	124300
Reinforcement Bars, Epoxy Coated			Lbs.	6130
Concrete Box Culverts			Cu. Yd.	433.6

* Expansion bolts shall be 3/4" hooked bolts and shall extend a minimum of 9" into new concrete.
** Use h bars in slabs of SN 025-2002 (WB); use h1 bars in slabs of SN 025-2003 (EB)

DESIGNED SMR
CHECKED CCC
DRAWN baliva
CHECKED SMR CCC

EXAMINED
PASSED
ENGINEER OF BRIDGES AND STRUCTURES

DATE MAY 12, 2017
REVISED
REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DOWNSTREAM CULVERT EXTENSION DETAILS
SN 025-2002 (WB) & 2003 (EB)

SHEET NO. 6 OF 6 SHEETS

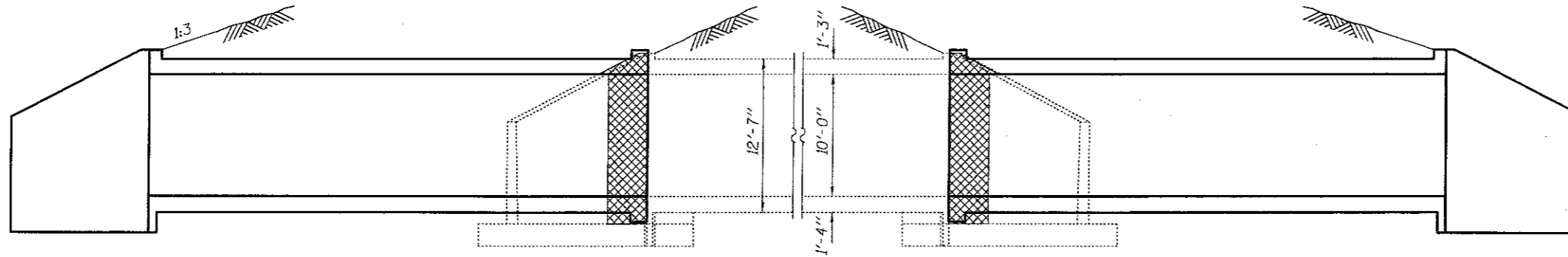
F.A.I. RTE. SECTION COUNTY TOTAL SHEETS SHEET NO.
70 125-1.21R EFFINGHAM 424 167
CONTRACT NO. 74664
ILLINOIS FED. AID PROJECT

GENERAL NOTES

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.

Expansion bolts shall consist of approved expansion anchors, providing minimum certified proof load = 4,080 lbs., and 3/4" x 12" hooked bolts.

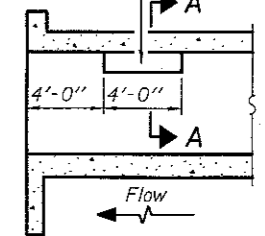
All exposed edges shall have standard 3/4" chamfers.



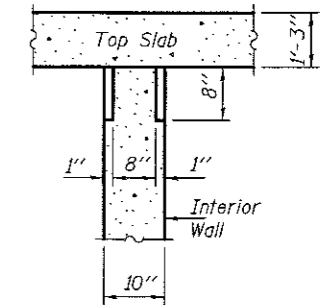
LONGITUDINAL SECTION

- Limits of Stone Riprap, Class A5

Notch formed by rough finished board attached to and removed with form work, each interior wall. (Do not chamfer).

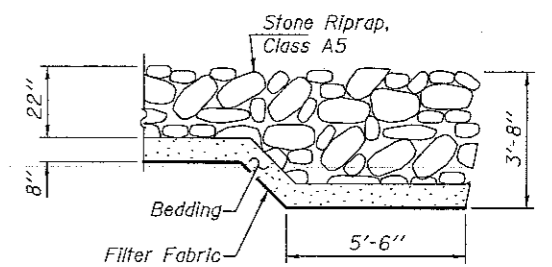


LONGITUDINAL SECTION



SECTION A-A

PHOEBE NESTING SITE DETAILS (Downstream End Only)



SECTION B-B

Cost of any excavation necessary for placement of riprap or bedding material shall be included with Stone Riprap, Class A5

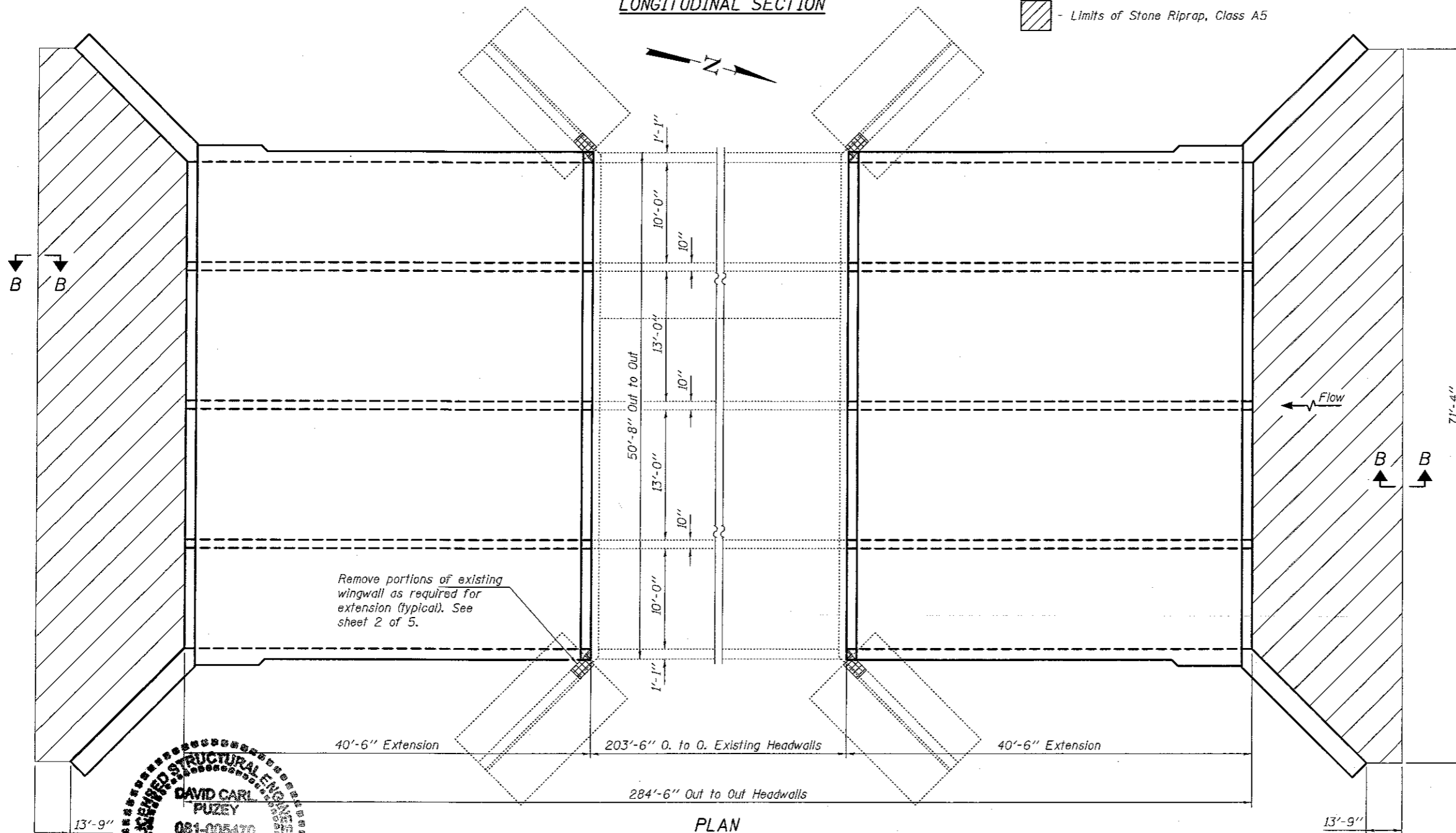
TOTAL BILL OF MATERIAL

ITEM	UNIT	TOTAL
Concrete Removal	Cu. Yd.	5.3
Concrete Box Culverts	Cu. Yd.	603
Reinforcement Bars	Pound	148,060
Expansion Bolts 3/4"	Each	150
Structure Excavation	Cu. Yd.	600
Stone Riprap, Class A5	Sq. Yd.	368.8
Filter Fabric	Sq. Yd.	368.8
Rock-Fill Replacement	Ton	302

DESIGN STRESSES

FIELD UNITS

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



PLAN

The contractor shall excavate to the specified depth for placement of the Rock Fill Replacement under the culvert extensions and the wingwall footings (if present) and allow the District inspectors to test and verify that the foundation soils have a minimum Q_u of at least 2.5 tsf. If the required soil strength is not present, the Contract shall excavate an additional depth and width as directed by the Engineer to locate suitable strength material. The excavated area shall then be backfilled to the proper elevations using Rockfill capped with 6" of Coarse Aggregate. Cost of excavation and backfill material will be paid for per Art. 109.04 (b) of the Standard Specifications



DESIGNED: *[Signature]*
 CHECKED: *[Signature]*
 DRAWN: J. Schneller
 CHECKED: *[Signature]*

PASSED: *[Signature]*
 ENGINEER OF BRIDGES AND STRUCTURES

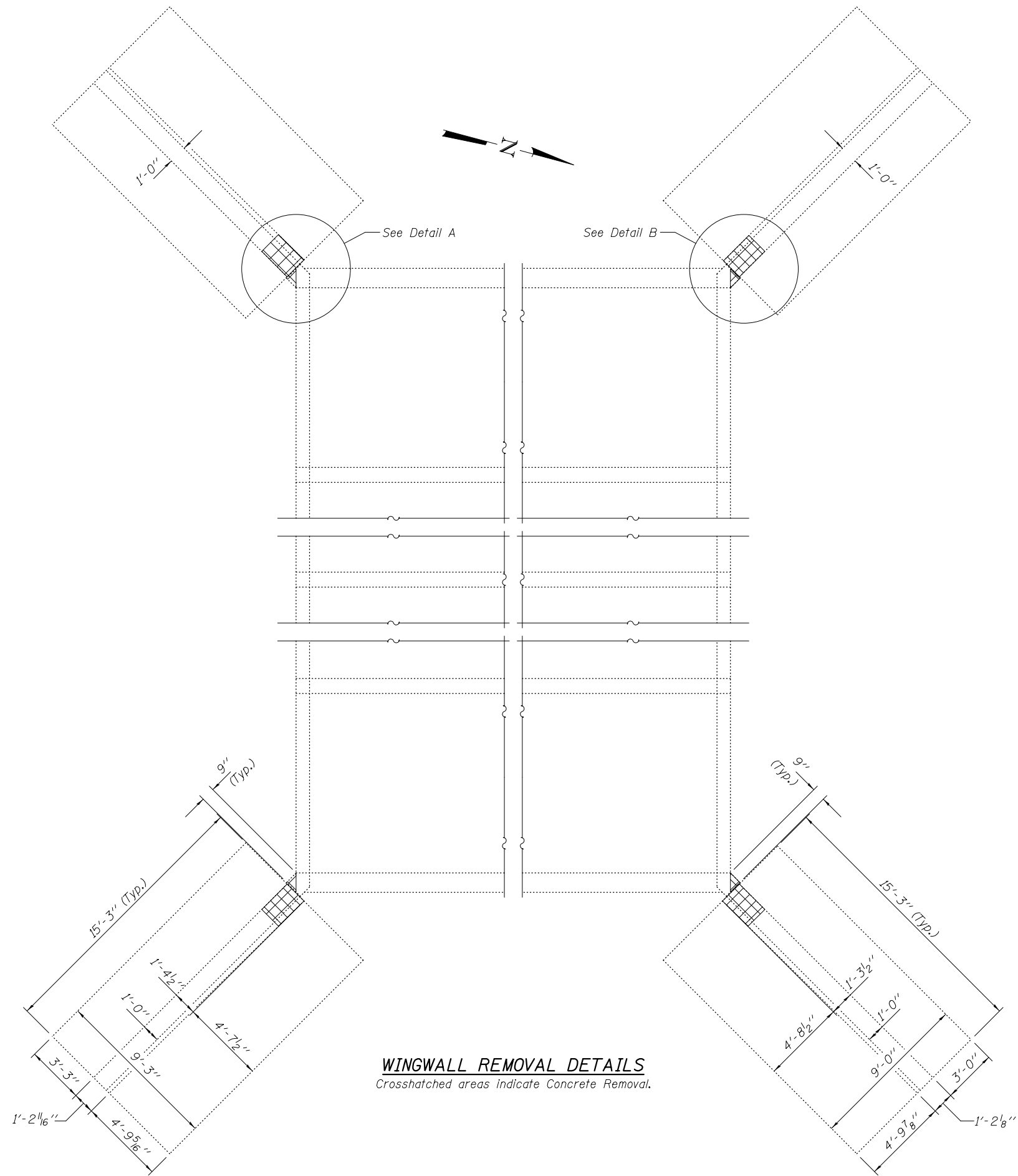
DATE: MAY 12, 2017
 REVISED: _____
 REVISED: _____

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

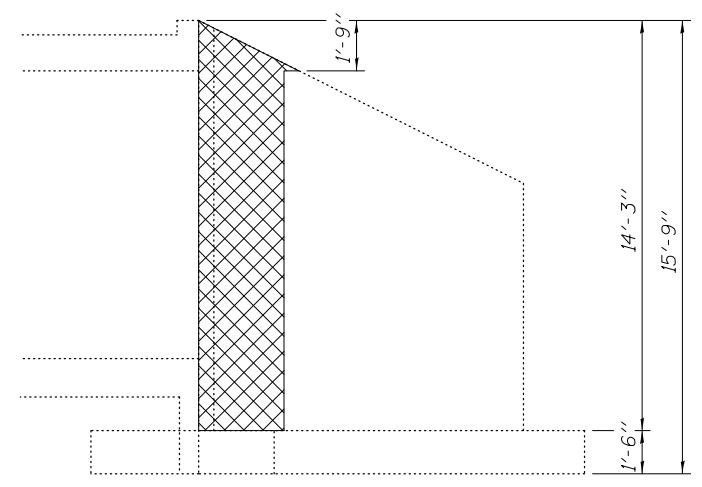
PLAN AND ELEVATION
 FAI 70
 SN 025-2004
 SHEET NO. 1 OF 5 SHEETS

F.A.J. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	125-1,2R	EFFINGHAM	424	168

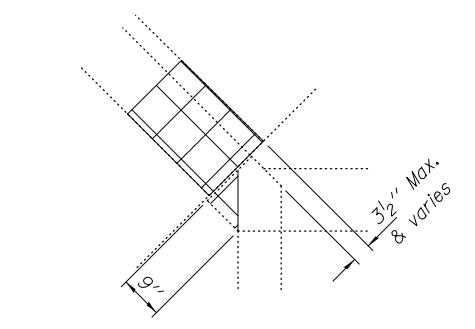
CONTRACT NO. 74664
 ILLINOIS FED. AID PROJECT



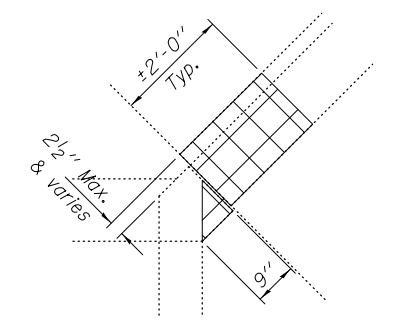
WINGWALL REMOVAL DETAILS
 Crosshatched areas indicate Concrete Removal.



ELEVATION

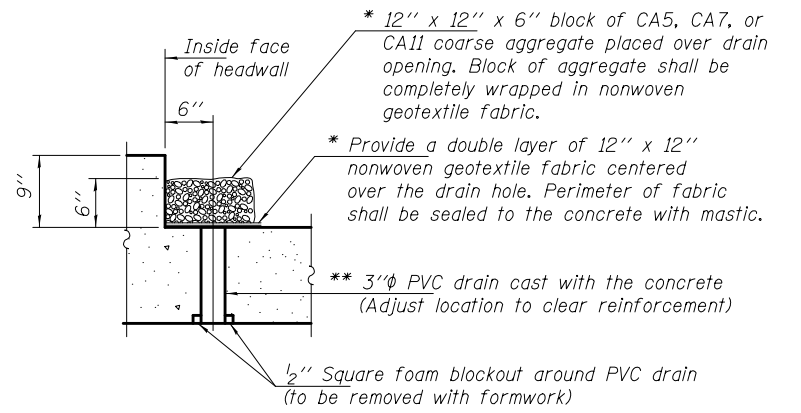
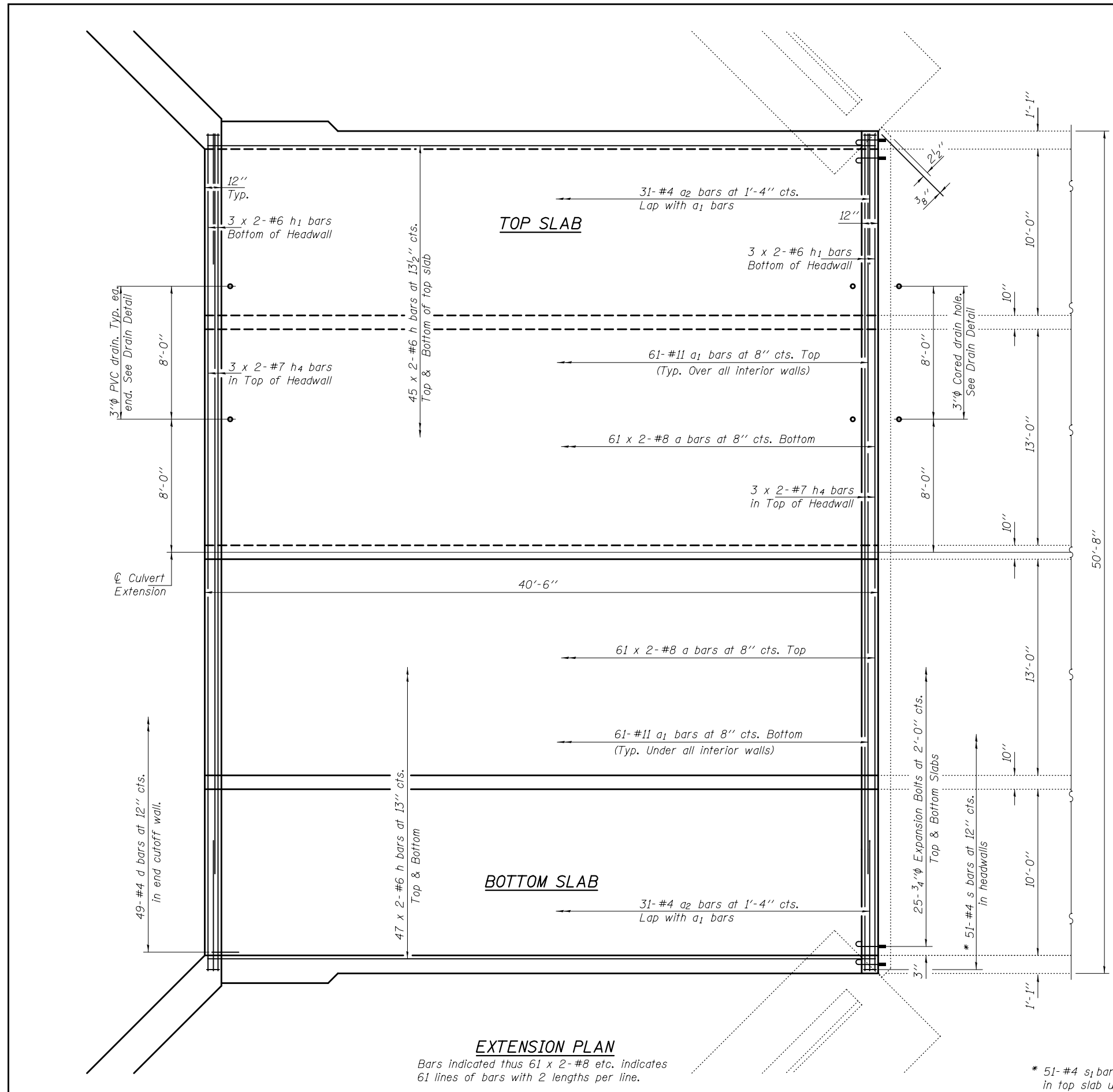


DETAIL A



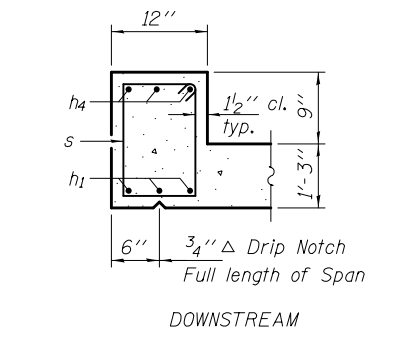
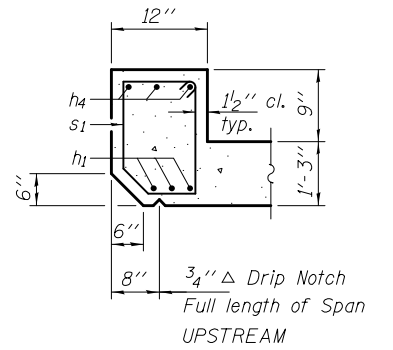
DETAIL B

DESIGNED CCC	DATE MAY 12, 2017	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	REMOVAL DETAILS SN 025-2004	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CHECKED SMR	REVISIONS			70	125-1,2/R	EFFINGHAM	424	169
DRAWN J. Schneller	ENGINEER OF BRIDGES AND STRUCTURES		SHEET NO. 2 OF 5 SHEETS	CONTRACT NO. 74664				
CHECKED CCC SMR				ILLINOIS FED. AID PROJECT				



(All costs associated with furnishing and constructing the above drain detail will not be measured for payment but shall be included in the contract unit price for the associated work.)

* Nonwoven geotextile fabric shall conform to the requirements of Article 1080.01 of the Standard Specifications. The minimum weight of the fabric shall be 6 ounces per square yard.
 ** 3" Cored drain hole in existing culvert. Cost included with Concrete Box Culverts.



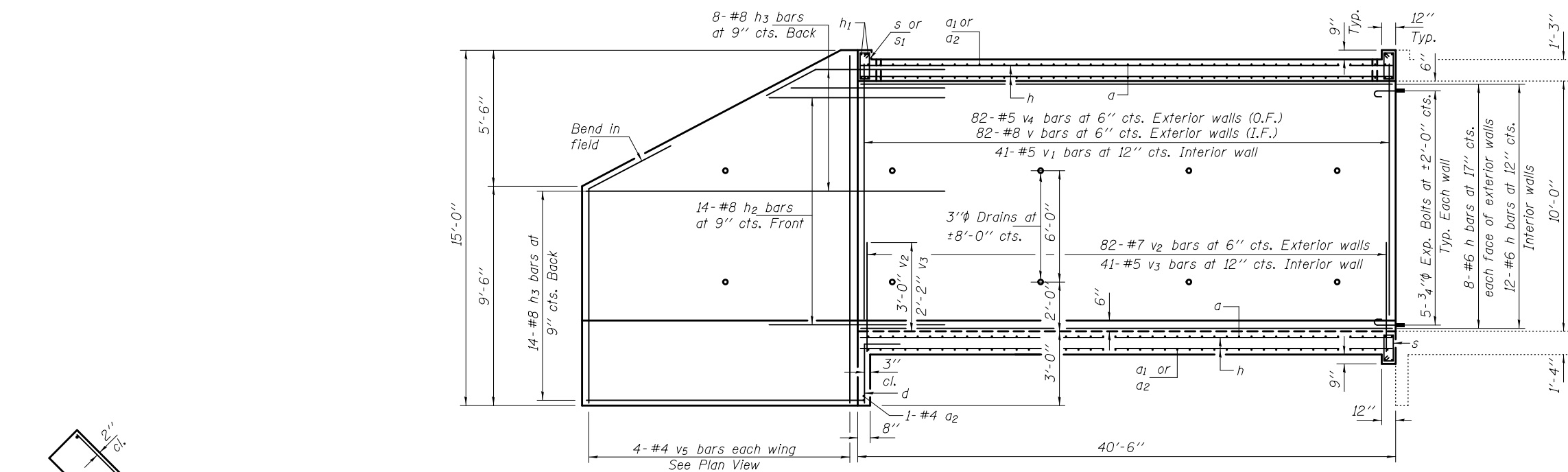
Notes:
 Expansion bolts shall be 3/4 inch hooked bolts and shall extend a minimum of 9 inches into new concrete.

MIN. LAP LENGTHS

- #4 bar = 2'-3"
- #6 bar = 2'-7"
- #7 bar = 3'-4"
- #8 bar = 4'-3"

* 51-#4 s1 bars at 12" cts. in top slab upstream headwall

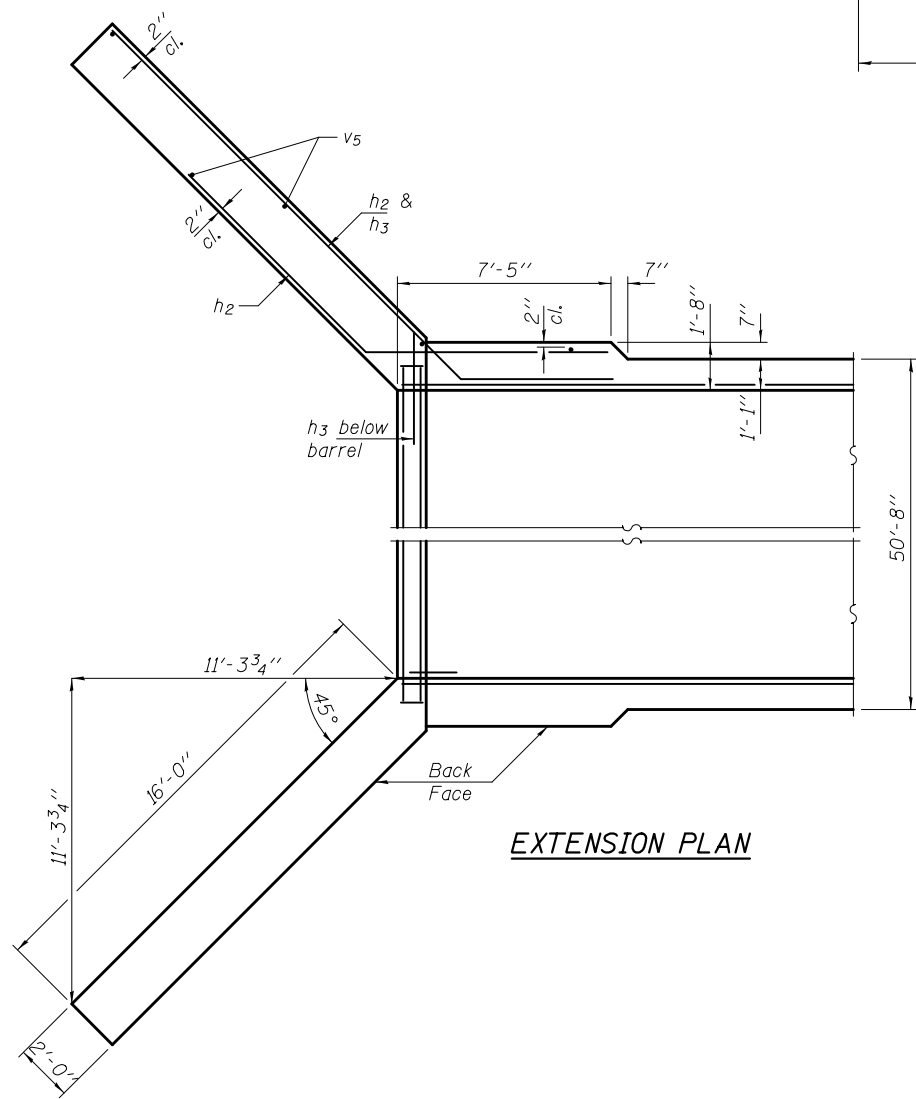
DESIGNED CCC	DATE MAY 12, 2017	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	CULVERT EXTENSION DETAILS SN 025-2004	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CHECKED SMR	REVISIONS			70	125-1,2/R	EFFINGHAM	424	170
DRAWN J. Schneller	ENGINEER OF BRIDGES AND STRUCTURES		SHEET NO. 3 OF 5 SHEETS	CONTRACT NO. 74664				
CHECKED CCC SMR				ILLINOIS FED. AID PROJECT				



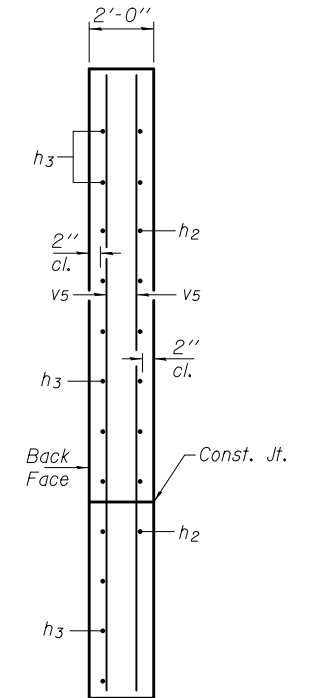
ELEVATION

Bars indicated thus 7 x 2-#4 etc. indicates 7 lines of bars with 2 lengths per line.

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

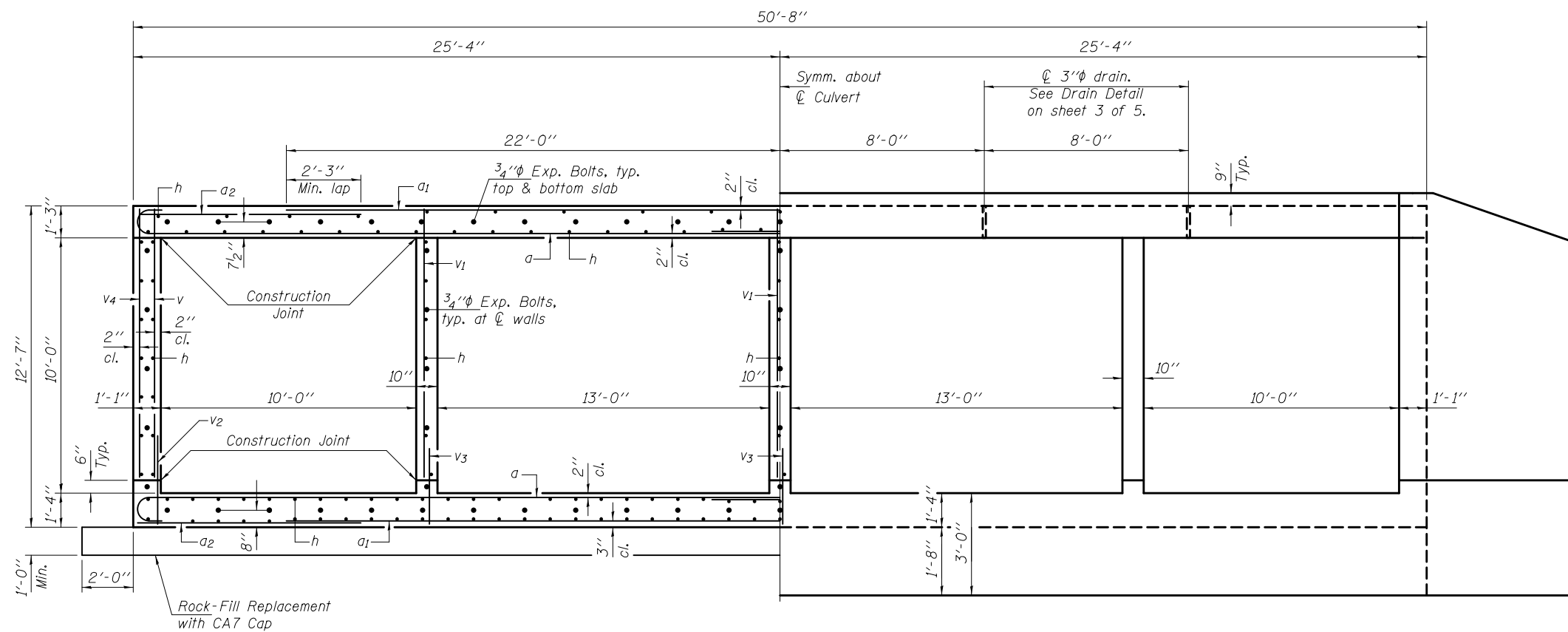


EXTENSION PLAN



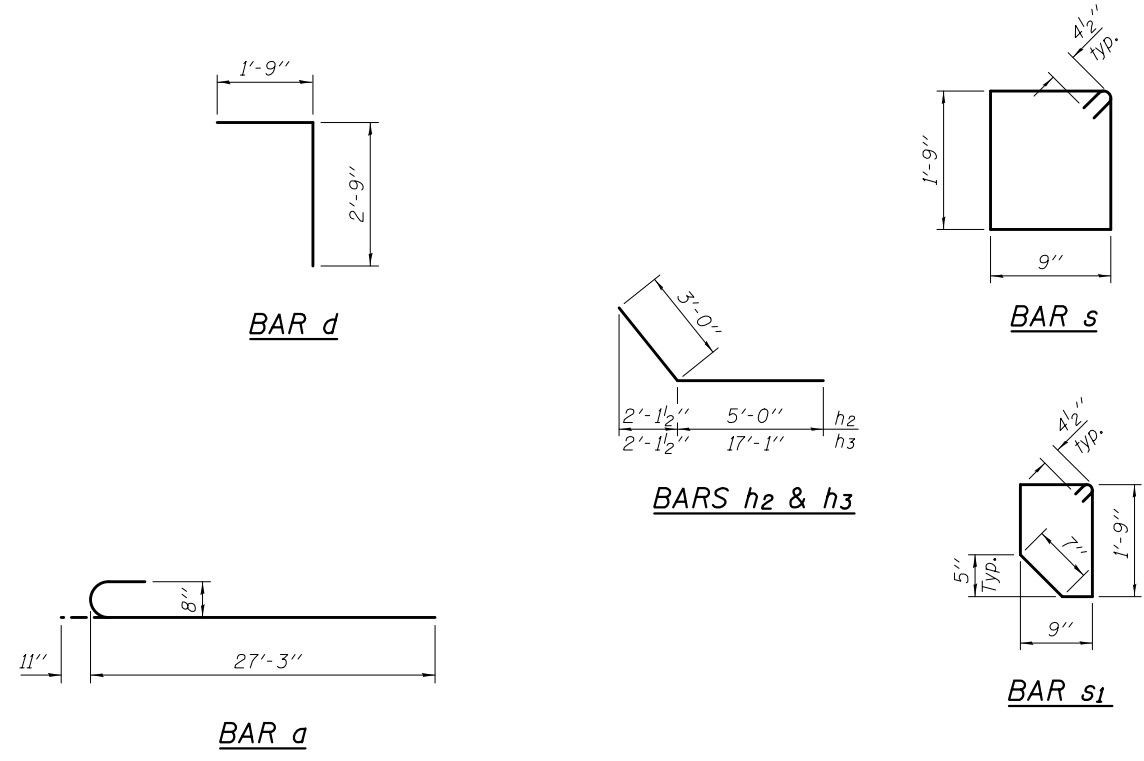
SECTION THRU WING

DESIGNED CCC	PASSED	 ENGINEER OF BRIDGES AND STRUCTURES	DATE MAY 12, 2017	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	CULVERT EXTENSION DETAILS SN 025-2004	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CHECKED SMR			REVISD			70	125-1,2/R	EFFINGHAM	424	171
DRAWN J. Schneller			REVISD			CONTRACT NO. 74664				
CHECKED CCC SMR			REVISD			ILLINOIS FED. AID PROJECT				
SHEET NO. 4 OF 5 SHEETS										



HALF SECTION THRU BARRELS

HALF END ELEVATION



BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a	488	#8	28'-2"	C
a1	244	#11	38'-8"	—
a2	248	#4	5'-7"	—
d	196	#4	4'-6"	—
h	872	#6	22'-0"	—
h1	36	#6	26'-8"	—
h2	56	#8	8'-0"	—
h3	88	#8	20'-1"	—
h4	36	#7	27'-0"	—
v	328	#8	10'-6"	—
v1	246	#5	10'-6"	—
v2	328	#7	4'-6"	—
v3	246	#5	3'-6"	—
v4	328	#5	9'-9"	—
v5	16	#4	15'-5"	—
s	255	#4	5'-9"	□
s1	51	#4	5'-5"	□
Concrete Removal			Cu. Yd.	5.3
Expansion Bolts $\frac{3}{4}$ "			Each	150
Reinforcement Bars			Lbs.	148,060
Concrete Box Culverts			Cu. Yd.	603

DESIGNED CCC
 CHECKED SMR
 DRAWN J. Schneller
 CHECKED CCC SMR

DATE MAY 12, 2017

REVISOR

REVISOR

PASSED *J. Carl Poyner*
 ENGINEER OF BRIDGES AND STRUCTURES

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

CULVERT EXTENSION DETAILS
 SN 025-2004

SHEET NO. 5 OF 5 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	125-1.2/R	EFFINGHAM	424	172
				CONTRACT NO. 74664
ILLINOIS FED. AID PROJECT				

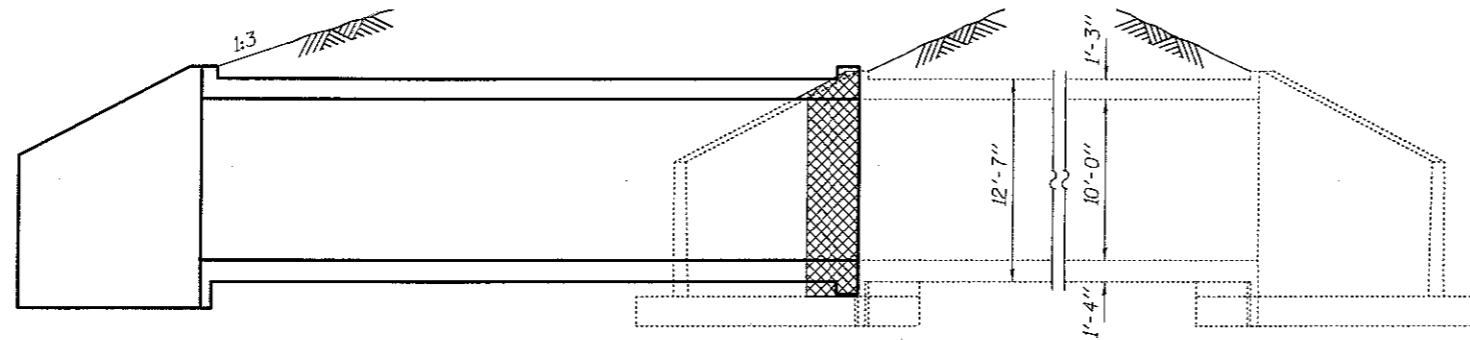
GENERAL NOTES

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.

Expansion bolts shall consist of approved expansion anchors, providing minimum certified proof load = 4,080 lbs., and 3/4" φ x 12" hooked bolts.

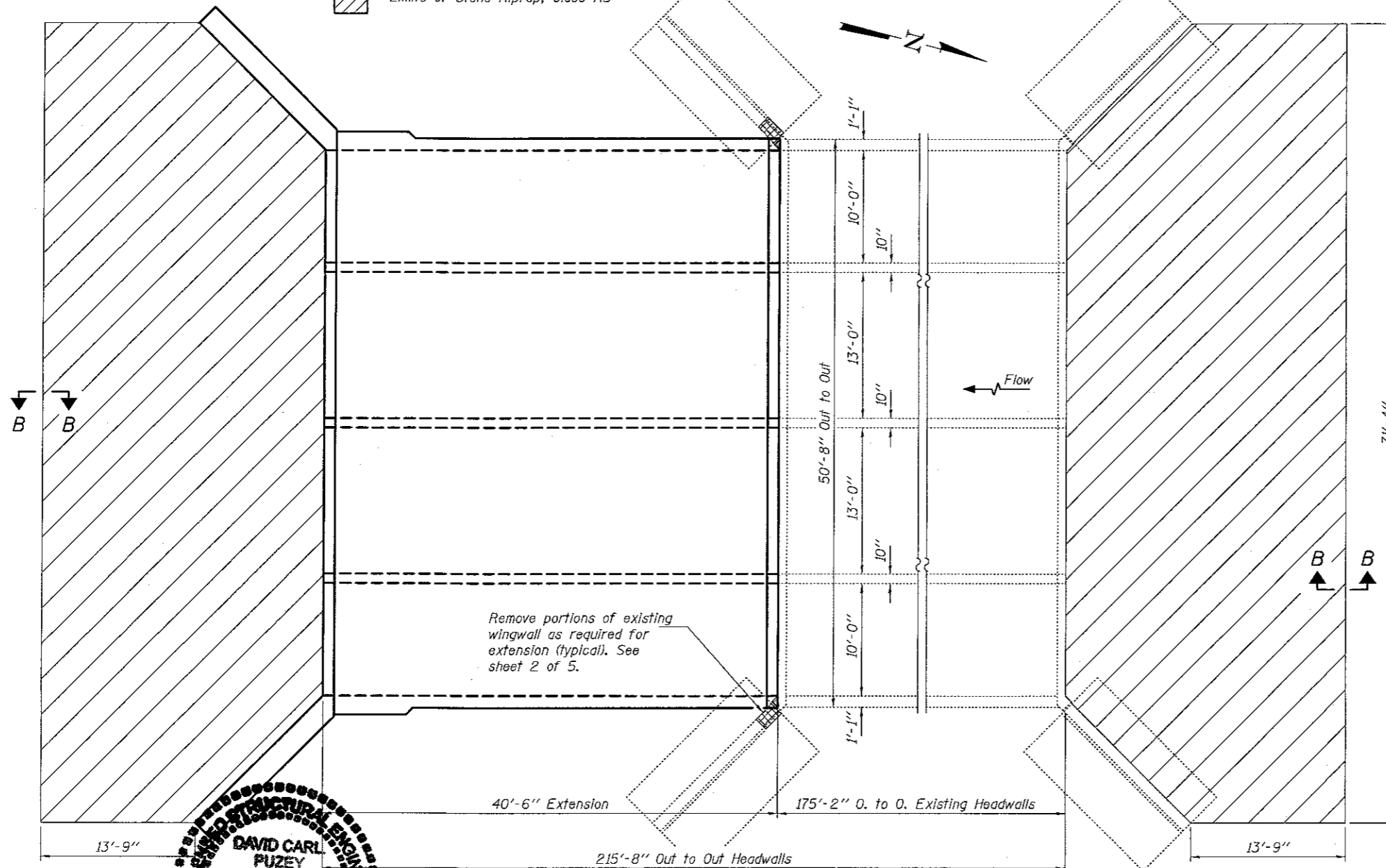
All exposed edges shall have standard 3/4" chamfers.

Notch formed by rough finished board attached to and removed with form work, each interior wall. (Do not chamfer).



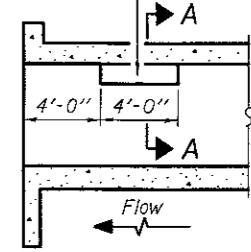
LONGITUDINAL SECTION

- Limits of Stone Riprap, Class A5

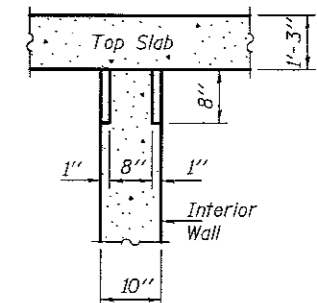


PLAN

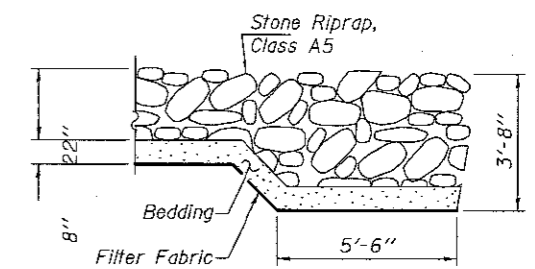
The contractor shall excavate to the specified depth for placement of the Rock Fill Replacement under the culvert extensions and the wingwall footings (if present) and allow the District inspectors to test and verify that the foundation soils have a minimum Q_u of at least 2.5 tsf. If the required soil strength is not present, the Contract shall excavate an additional depth and width as directed by the Engineer to locate suitable strength material. The excavated area shall then be backfilled to the proper elevations using Rockfill capped with 6" of Coarse Aggregate. Cost of excavation and backfill material will be paid for per Art. 109.04 (b) of the Standard Specifications



LONGITUDINAL SECTION



**SECTION A-A
PHOEBE NESTING
SITE DETAILS
(Downstream End Only)**



SECTION B-B

Cost of any excavation necessary for placement of riprap or bedding material shall be included with Stone Riprap, Class A5

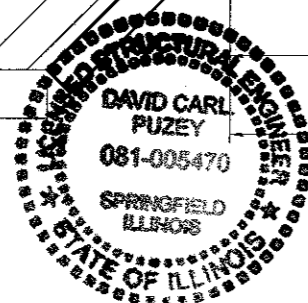
TOTAL BILL OF MATERIAL

ITEM	UNIT	TOTAL
Concrete Removal	Cu. Yd.	2.6
Concrete Box Culverts	Cu. Yd.	301.5
Reinforcement Bars	Pound	77,490
Expansion Bolts 3/4"	Each	75
Structure Excavation	Cu. Yd.	300
Stone Riprap, Class A5	Sq. Yd.	368.8
Filter Fabric	Sq. Yd.	368.8
Rock-Fill Replacement	Ton	302

DESIGN STRESSES

FIELD UNITS

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



EXPIRES 11-30-2018

DESIGNED: *[Signature]*
CHECKED: *[Signature]*
DRAWN: J. Schneller
CHECKED: *[Signature]*

PASSED: *[Signature]*
ENGINEER OF BRIDGES AND STRUCTURES

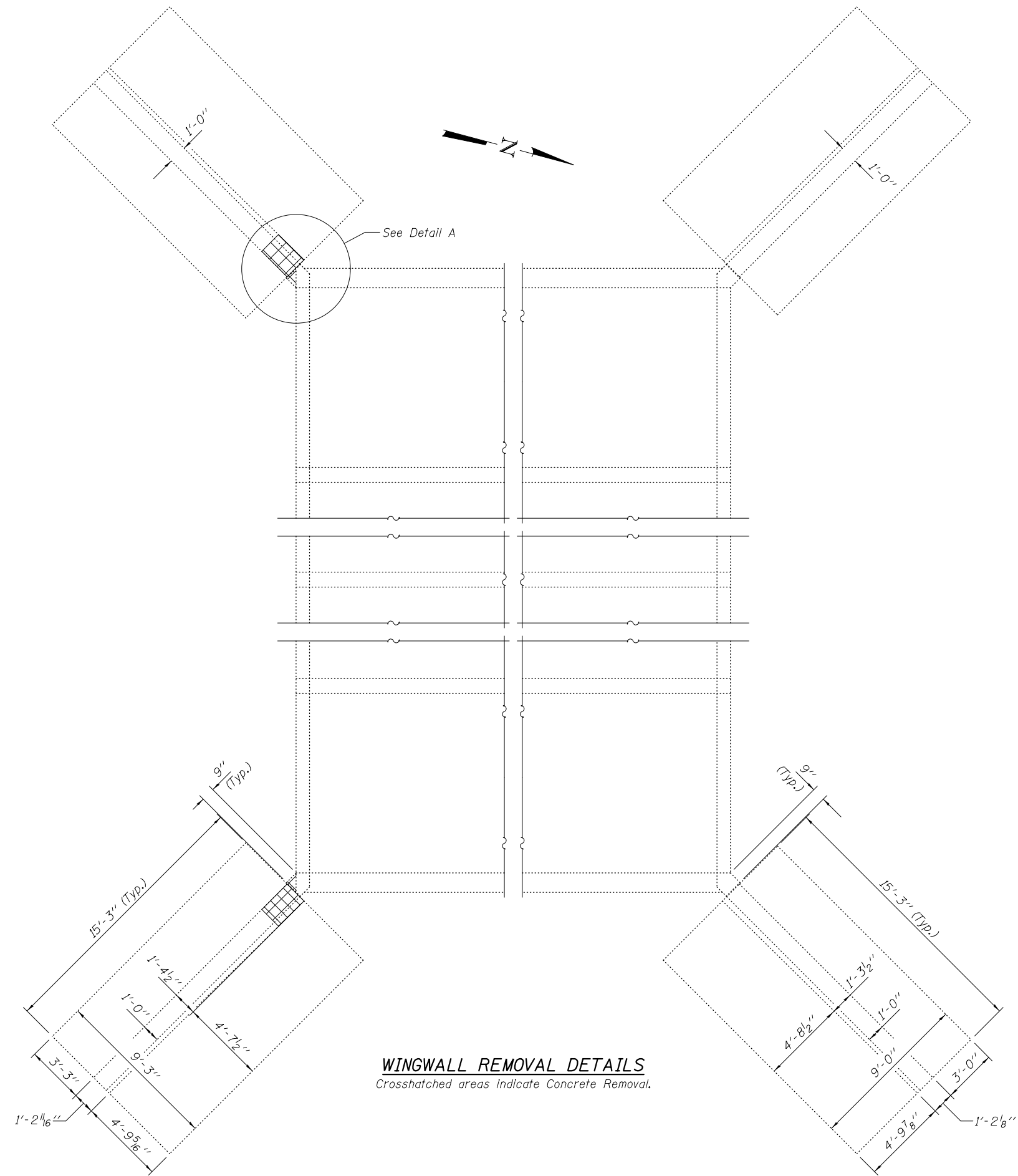
DATE: MAY 12, 2017
REVISED: _____
REVISED: _____

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

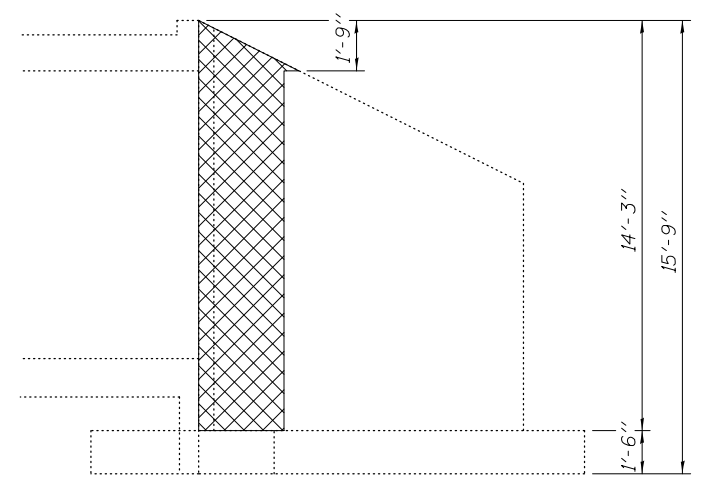
PLAN AND ELEVATION
FAI 70
SN 025-2005
SHEET NO. 1 OF 5 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	125-1,2R	EFFINGHAM	424	173

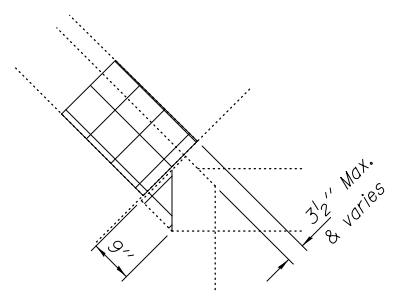
CONTRACT NO. 74664
ILLINOIS FED. AID PROJECT



WINGWALL REMOVAL DETAILS
 Crosshatched areas indicate Concrete Removal.

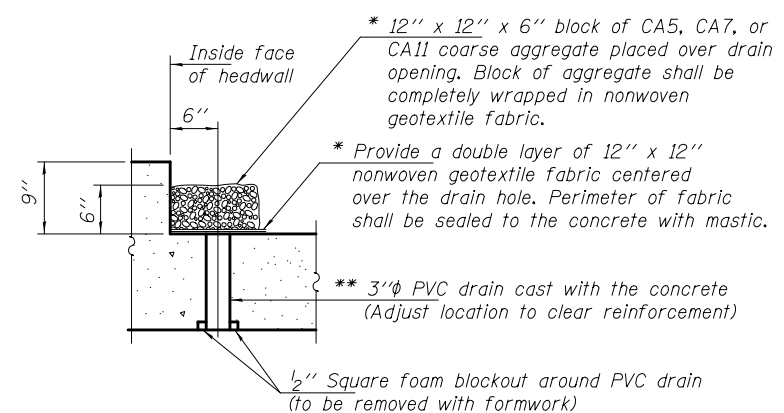
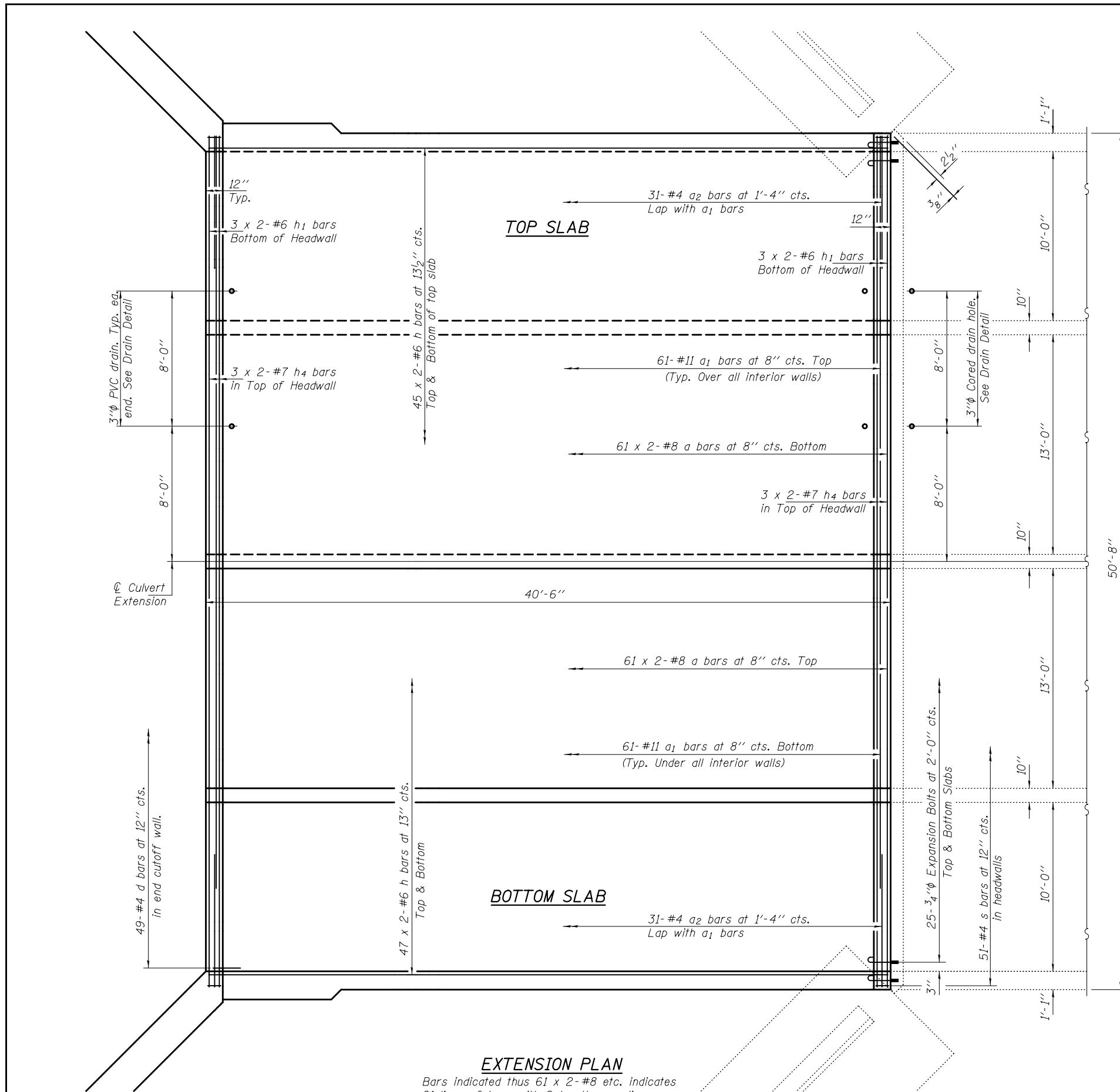


ELEVATION



DETAIL A

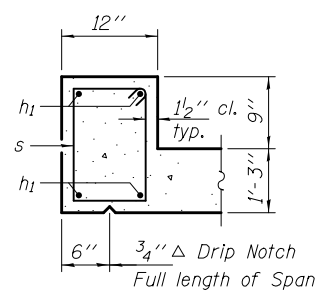
DESIGNED CCC	PASSED <i>Carl Pinger</i> ENGINEER OF BRIDGES AND STRUCTURES	DATE MAY 12, 2017	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	REMOVAL DETAILS SN 025-2005	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CHECKED SMR		REVISION			70	125-1,2/R	EFFINGHAM	424	174
DRAWN J. Schneller		REVISION			CONTRACT NO. 74664				
CHECKED CCC SMR					ILLINOIS FED. AID PROJECT				
				SHEET NO. 2 OF 5 SHEETS					



(All costs associated with furnishing and constructing the above drain detail will not be measured for payment but shall be included in the contract unit price for the associated work.)

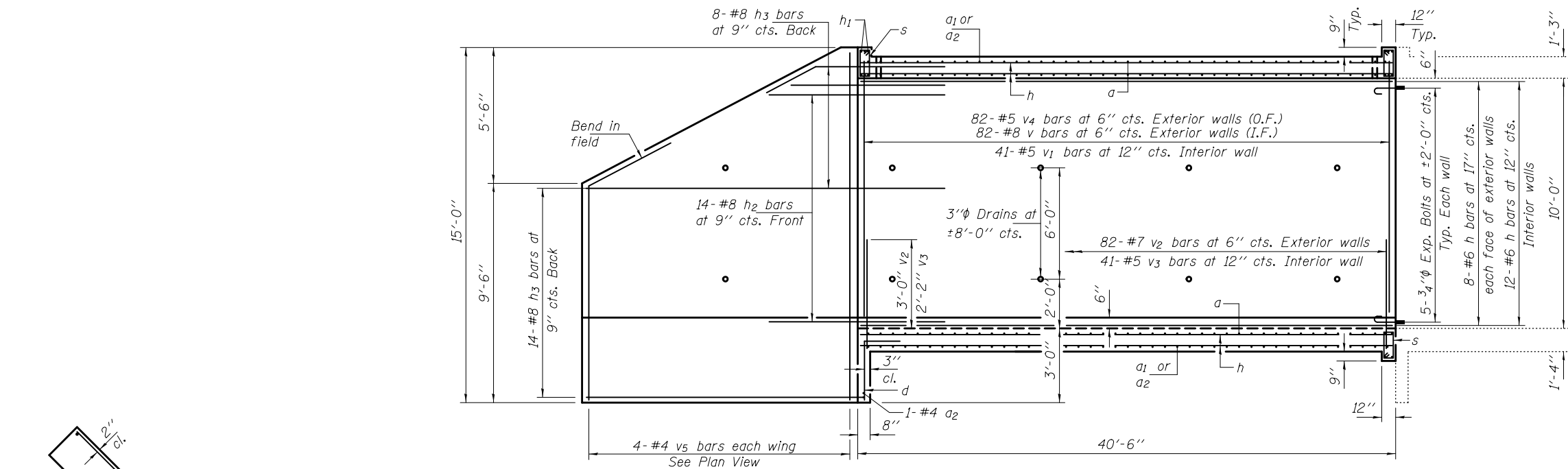
- * Nonwoven geotextile fabric shall conform to the requirements of Article 1080.01 of the Standard Specifications. The minimum weight of the fabric shall be 6 ounces per square yard.
- ** 3"φ Cored drain hole in existing culvert. Cost included with Concrete Box Culverts.

Notes:
 Expansion bolts shall be 3/4"φ hooked bolts and shall extend a minimum of 9" into new concrete.



- MIN. LAP LENGTHS**
- #4 bar = 2'-3"
 - #6 bar = 2'-7"
 - #7 bar = 3'-4"
 - #8 bar = 4'-3"

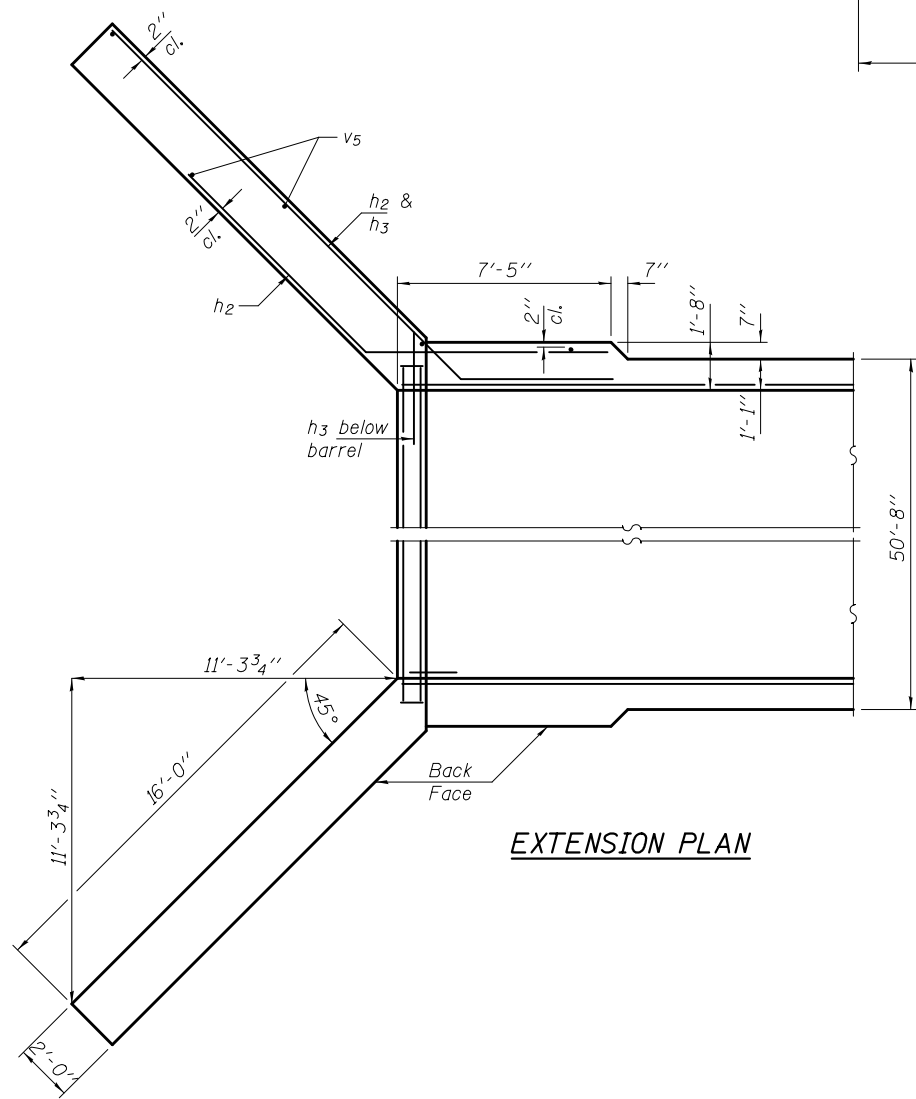
DESIGNED CCC	DATE MAY 12, 2017	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	CULVERT EXTENSION DETAILS SN 025-2005	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CHECKED SMR	REVISIONS			70	125-1,2/R	EFFINGHAM	424	175
DRAWN J. Schneller	ENGINEER OF BRIDGES AND STRUCTURES			CONTRACT NO. 74664				
CHECKED CCC SMR			SHEET NO. 3 OF 5 SHEETS	ILLINOIS FED. AID PROJECT				



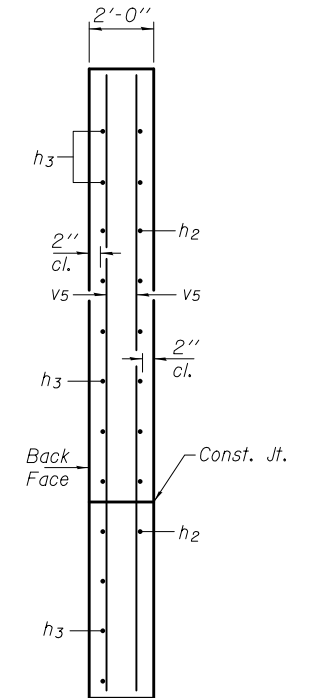
ELEVATION

Bars indicated thus 7 x 2-#4 etc. indicates 7 lines of bars with 2 lengths per line.

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

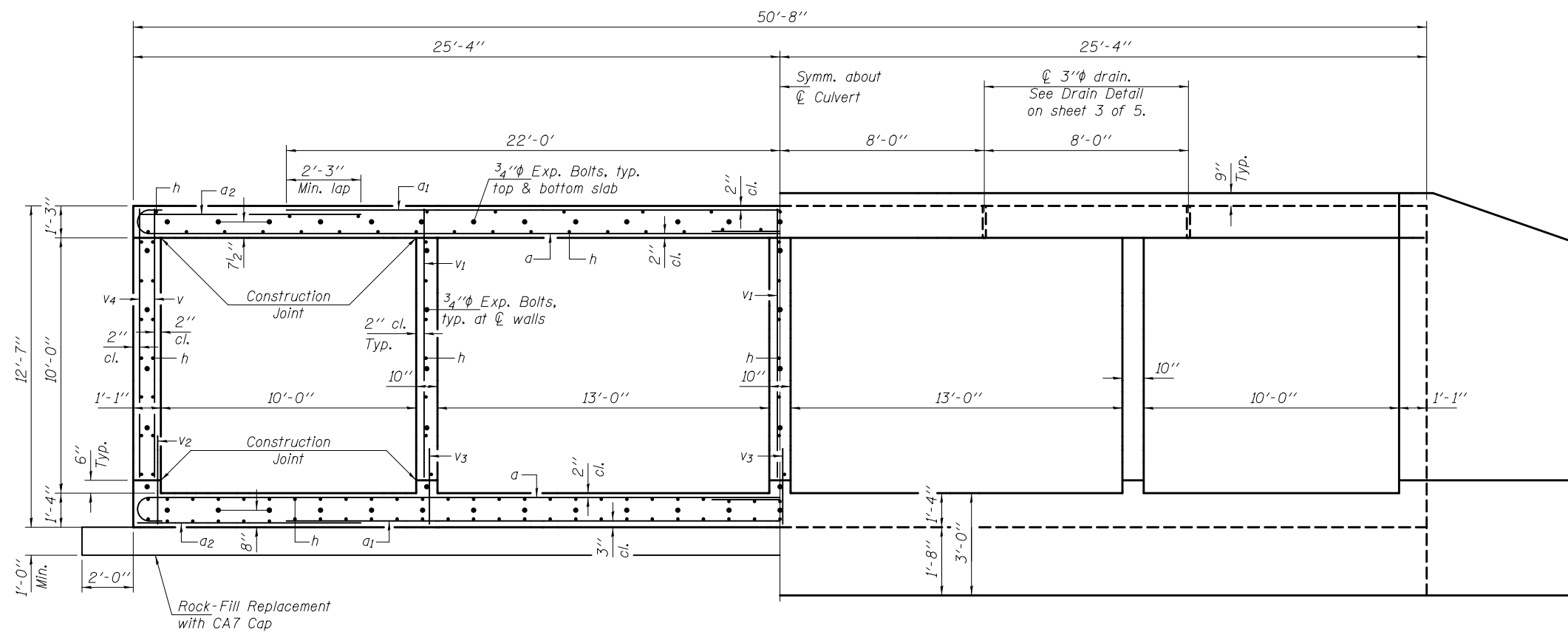


EXTENSION PLAN



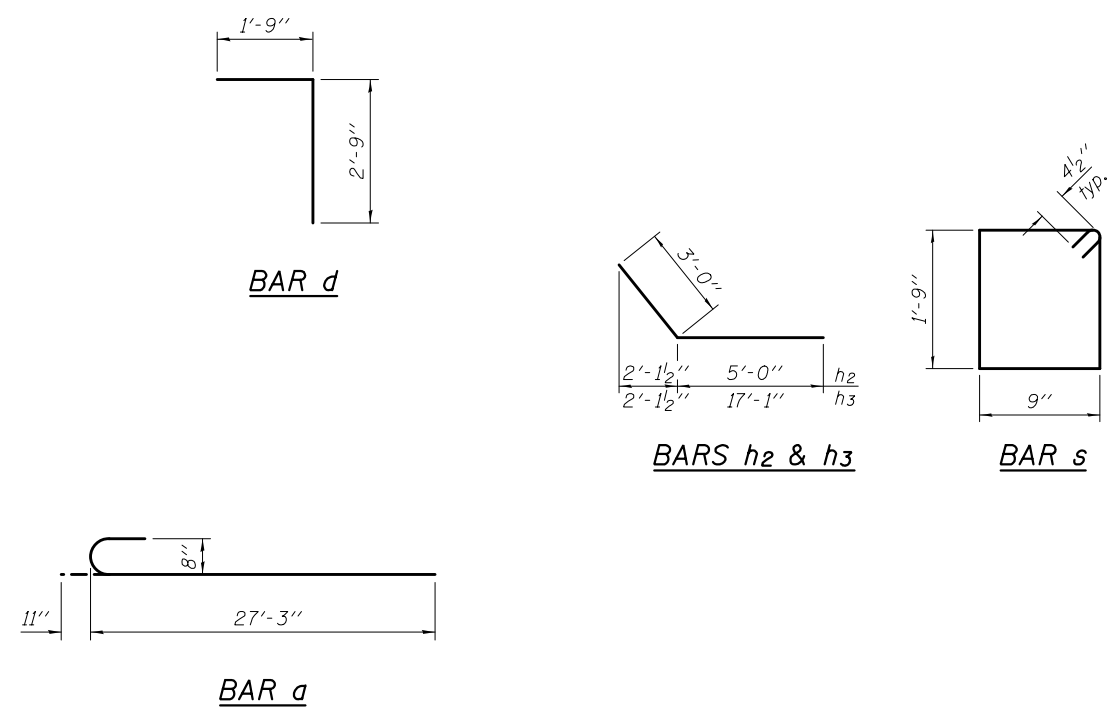
SECTION THRU WING

DESIGNED CCC	PASSED	 ENGINEER OF BRIDGES AND STRUCTURES	DATE MAY 12, 2017	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	CULVERT EXTENSION DETAILS SN 025-2005	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CHECKED SMR			REVISD			70	125-1,2/R	EFFINGHAM	424	176
DRAWN J. Schneller			REVISD			CONTRACT NO. 74664				
CHECKED CCC SMR			REVISD			ILLINOIS FED. AID PROJECT				
SHEET NO. 4 OF 5 SHEETS										



HALF SECTION THRU BARRELS

HALF END ELEVATION



BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a	244	#8	28'-2"	C
a ₁	122	#11	44'-0"	—
a ₂	124	#4	5'-7"	—
d	98	#4	5'-6"	┌
h	436	#6	22'-0"	—
h ₁	18	#6	26'-8"	—
h ₂	28	#8	8'-0"	┌
h ₃	44	#8	20'-1"	┌
h ₄	18	#7	27'-0"	—
v	164	#8	10'-6"	—
v ₁	123	#5	10'-6"	—
v ₂	164	#7	4'-6"	—
v ₃	123	#5	3'-6"	—
v ₄	164	#5	9'-9"	—
v ₅	8	#4	15'-5"	—
s	153	#4	5'-9"	□
Concrete Removal			Cu. Yd.	2.6
Expansion Bolts 3/4"			Each	75
Reinforcement Bars			Lbs.	77,490
Concrete Box Culverts			Cu. Yd.	301.5

DESIGNED CCC	DATE MAY 12, 2017
CHECKED SMR	
DRAWN J. Schneller	
CHECKED CCC SMR	

PASSED *J. Carl Pinger*
ENGINEER OF BRIDGES AND STRUCTURES

REVISED
REVISED

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**CULVERT EXTENSION DETAILS
SN 025-2005**

SHEET NO. 5 OF 5 SHEETS

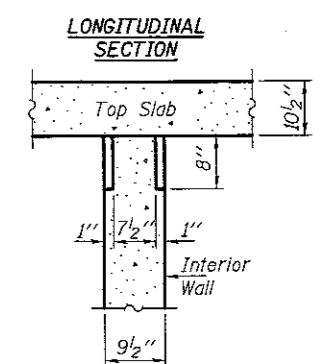
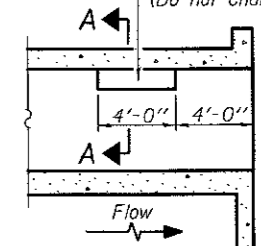
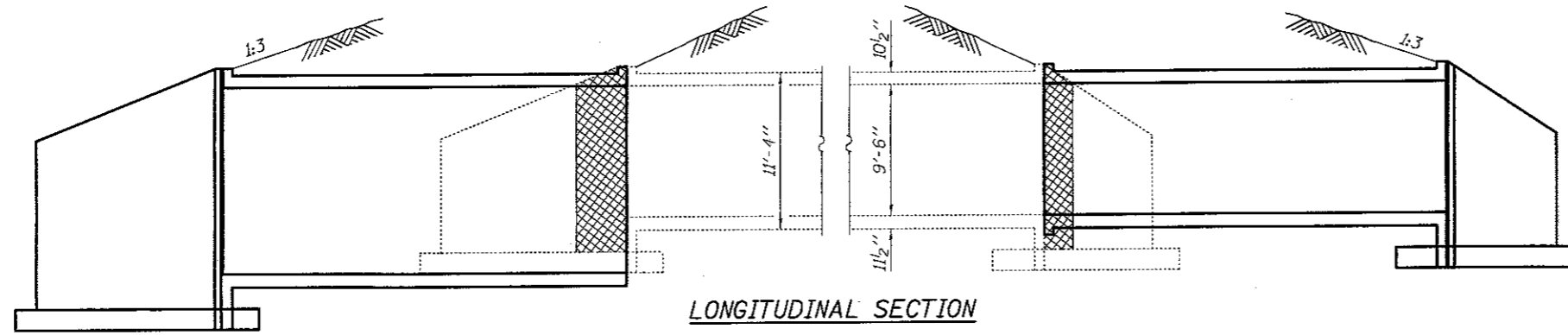
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	125-1,2/R	EFFINGHAM	424	177
CONTRACT NO. 74664			ILLINOIS FED. AID PROJECT	

GENERAL NOTES

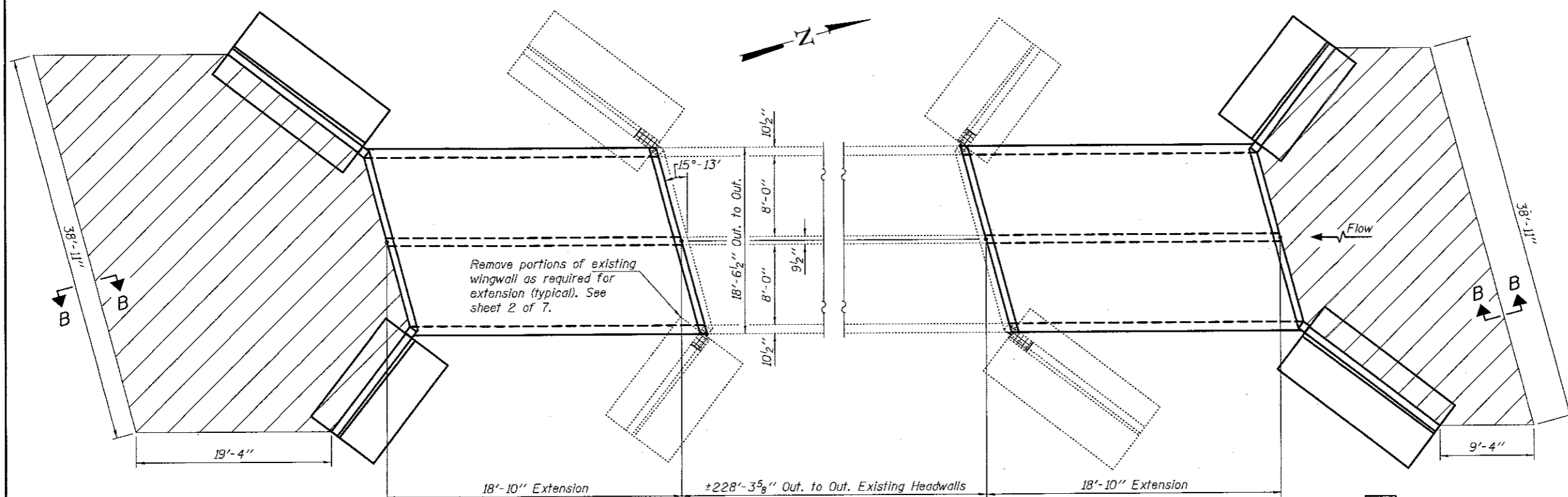
Plan dimensions and details relative to existing plans are subject to nominal construction variations. The Contractor shall field verify existing dimensions and details affecting new construction and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall 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.

Expansion bolts shall consist of approved expansion anchors, providing minimum certified proof load = 4,080 lbs., and 3/4" φ x 12" hooked bolts. All exposed edges shall have standard 3/4" chamfers. Reinforcement bars designated (E) shall be epoxy coated.

Notch formed by rough finished board attached to and removed with form work, each interior wall. (Do not chamfer).



SECTION A-A
PHOEBE NESTING
SITE DETAILS
(Downstream End Only)

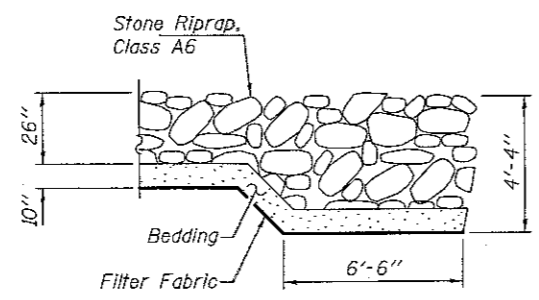


Remove portions of existing wingwall as required for extension (typical). See sheet 2 of 7.

- Limits of Stone Riprap, Class A6

PLAN

The contractor shall excavate to the specified depth for placement of the Rock Fill Replacement under the culvert extensions and the wingwall footings (if present) and allow the District Inspectors to test and verify that the foundation soils have a minimum Q_u of at least 2.5 tsf. If the required soil strength is not present, the Contract shall excavate an additional depth and width as directed by the Engineer to locate suitable strength material. The excavated area shall then be backfilled to the proper elevations using Rockfill capped with 6" of Coarse Aggregate. Cost of excavation and backfill material will be paid for per Art. 109.04 (b) of the Standard Specifications



SECTION B-B

Cost of any excavation necessary for placement of riprap or bedding material shall be included with Stone Riprap, Class A6



DESIGN STRESSES
FIELD UNITS

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

TOTAL BILL OF MATERIAL

ITEM	UNIT	TOTAL
Concrete Removal	Cu. Yd.	4.3
Concrete Box Culverts	Cu. Yd.	176.0
Reinforcement Bars	Pound	30360
Reinforcement Bars, Epoxy Coated	Pound	2890
Expansion Bolts 3/4"	Each	78
Structure Excavation	Cu. Yd.	319.4
Stone Riprap, Class A6	Sq. Yd.	228.7
Filter Fabric	Sq. Yd.	228.7
Rock-Fill Replacement	Ton	66

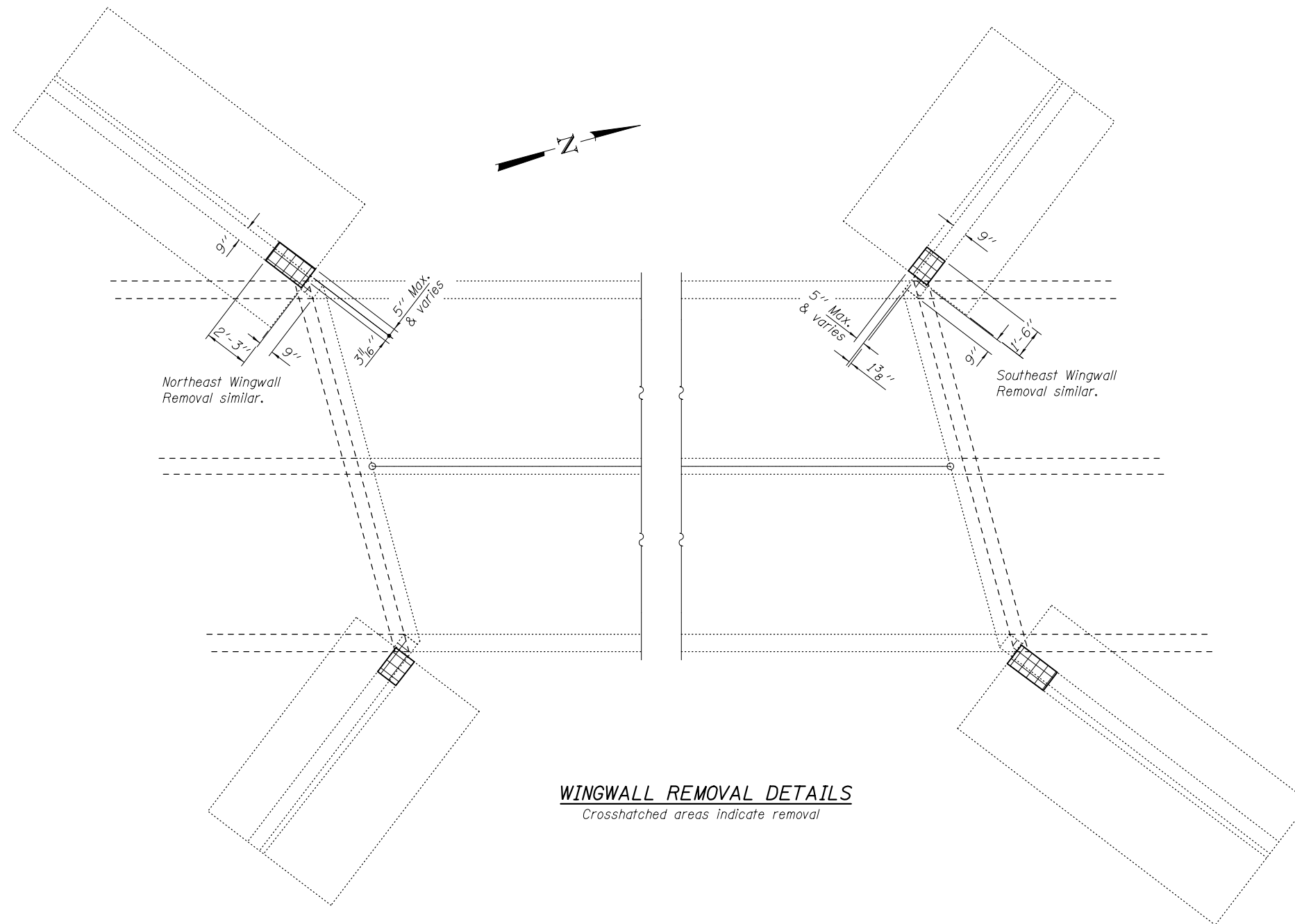
DESIGNED - *[Signature]*
CHECKED - *[Signature]*
DRAWN - Kyle M. Steffen
CHECKED - *[Signature]*

DATE - MAY 12, 2017
PASSED *[Signature]*
ENGINEER OF BRIDGES AND STRUCTURES

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL PLAN & ELEVATION
F.A.I. ROUTE 70 OVER STREAM
SN 025-2016
SHEET NO. 1 OF 7 SHEETS

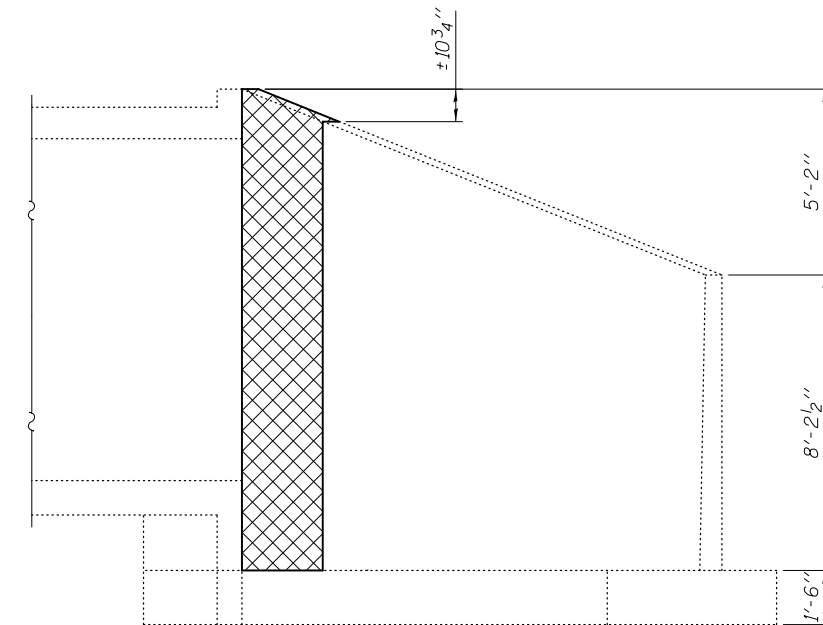
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	(25-1,2)R	EFFINGHAM	424	178
CONTRACT NO. 74664			ILLINOIS FED. AID PROJECT	



Northeast Wingwall
Removal similar.


Southeast Wingwall
Removal similar.

WINGWALL REMOVAL DETAILS
Crosshatched areas indicate removal



ELEVATION

DESIGNED - CCC
CHECKED - SMR
DRAWN - Kyle M. Steffen
CHECKED - CCC SMR

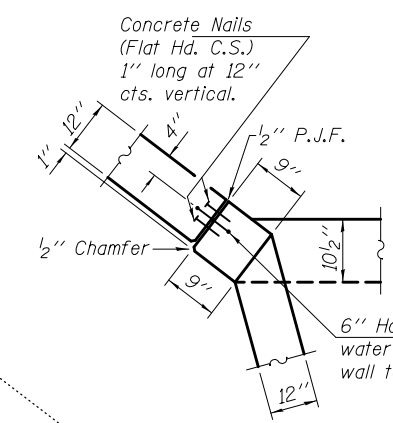
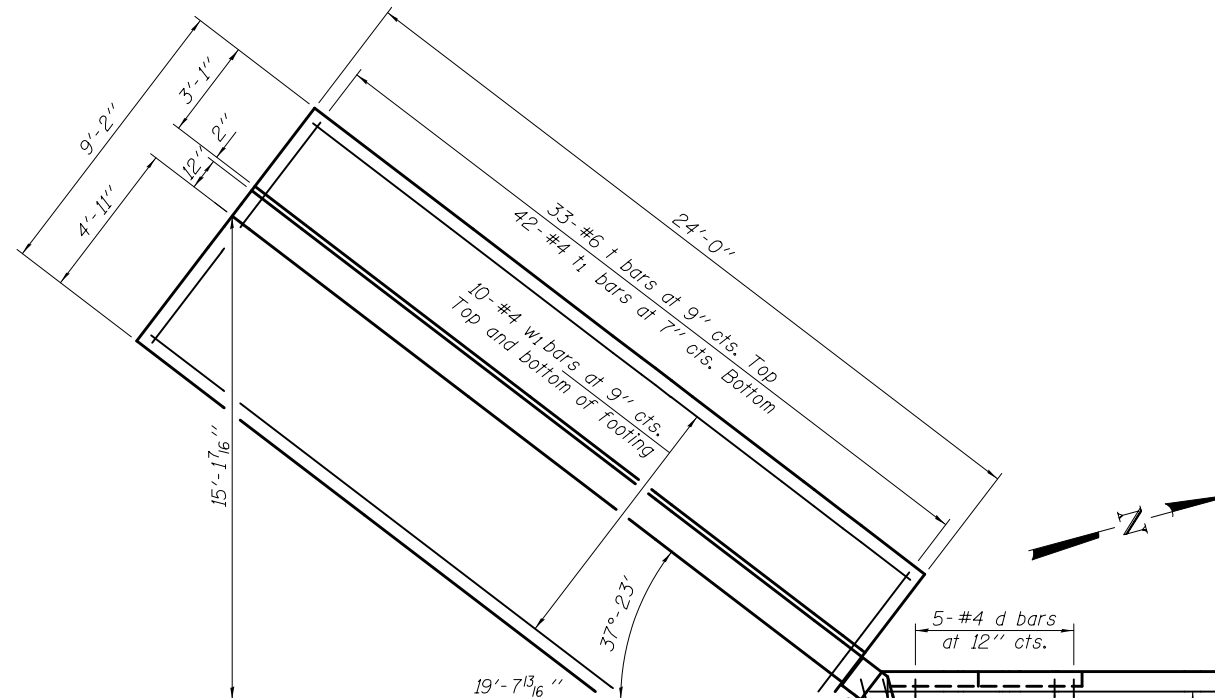
PASSED

 ENGINEER OF BRIDGES AND STRUCTURES

DATE - MAY 12, 2017
REVISED
REVISED

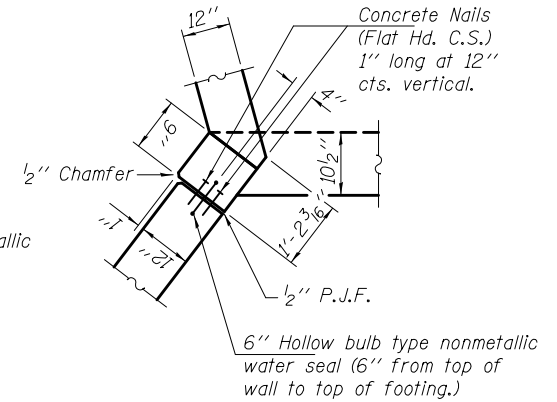
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

REMOVAL DETAILS
SN 025-2016
SHEET NO. 2 OF 7 SHEETS

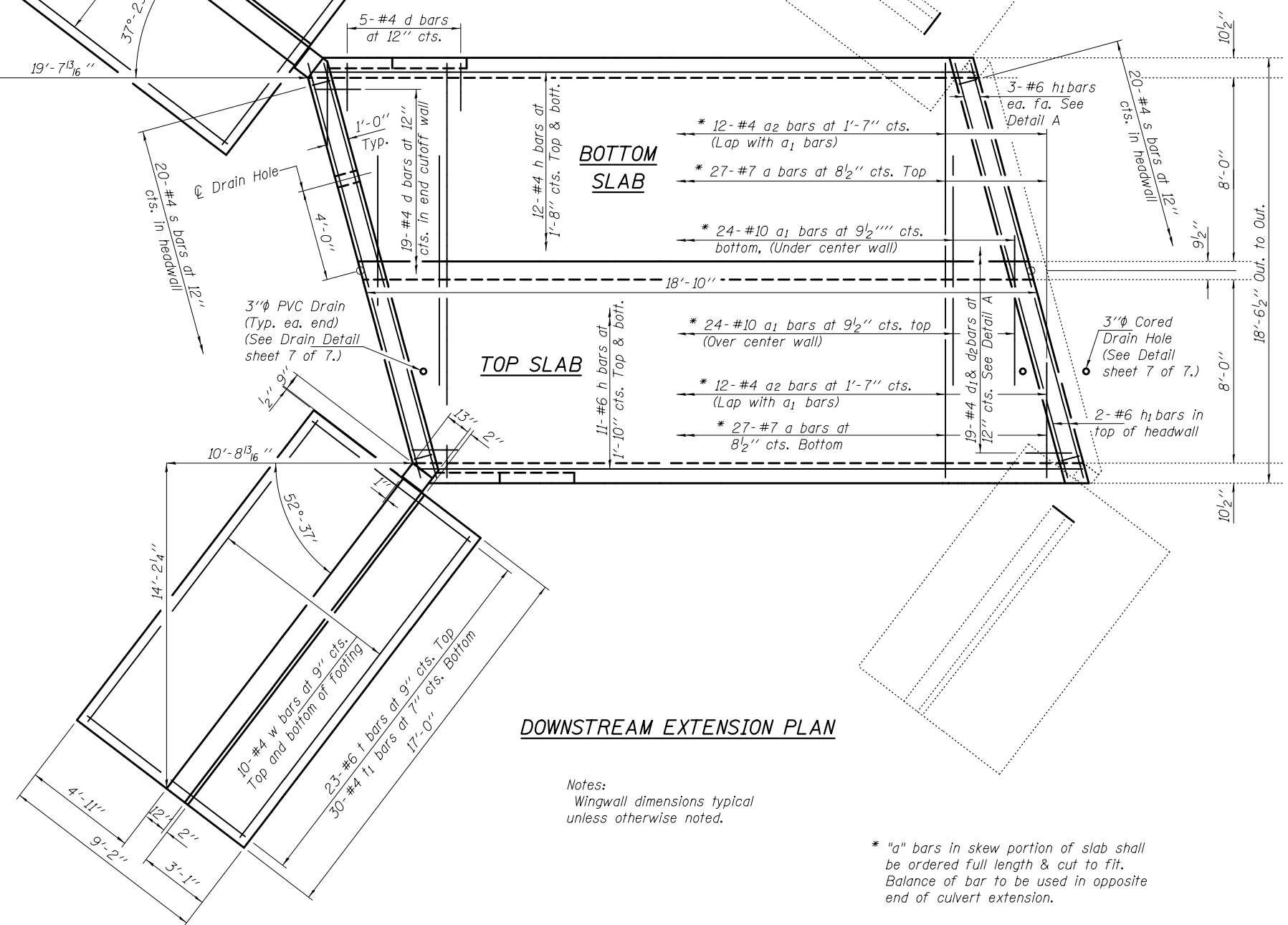
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	(25-1,2)R	EFFINGHAM	424	179
CONTRACT NO. 74664			ILLINOIS FED. AID PROJECT	



SOUTHWEST CORNER

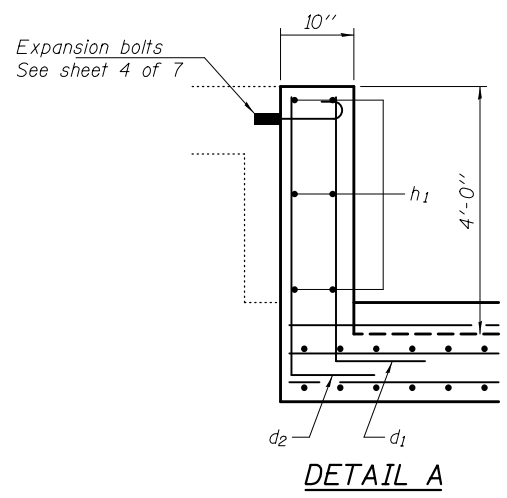


SOUTHEAST CORNER

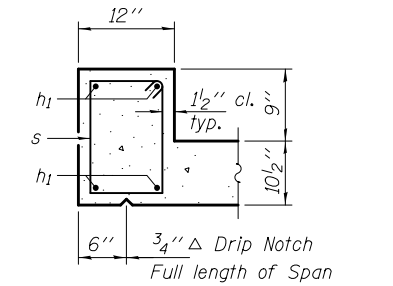


Notes:
Wingwall dimensions typical unless otherwise noted.

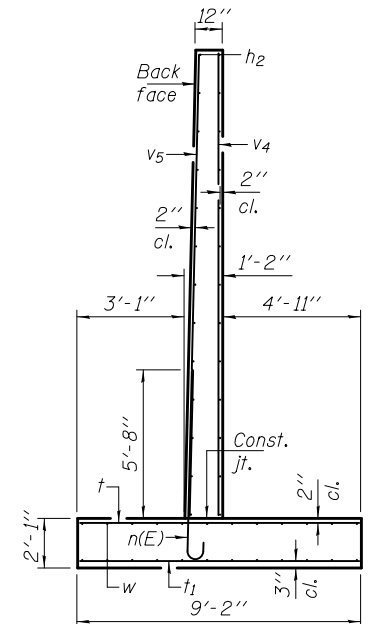
* "a" bars in skew portion of slab shall be ordered full length & cut to fit. Balance of bar to be used in opposite end of culvert extension.



DETAIL A

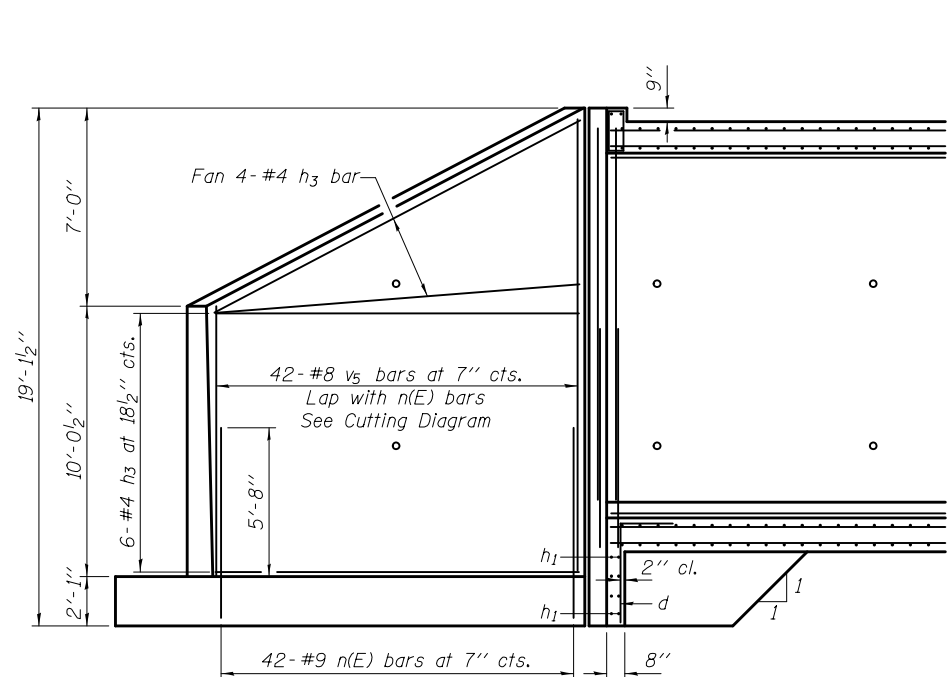


SECTION THRU HEADWALL



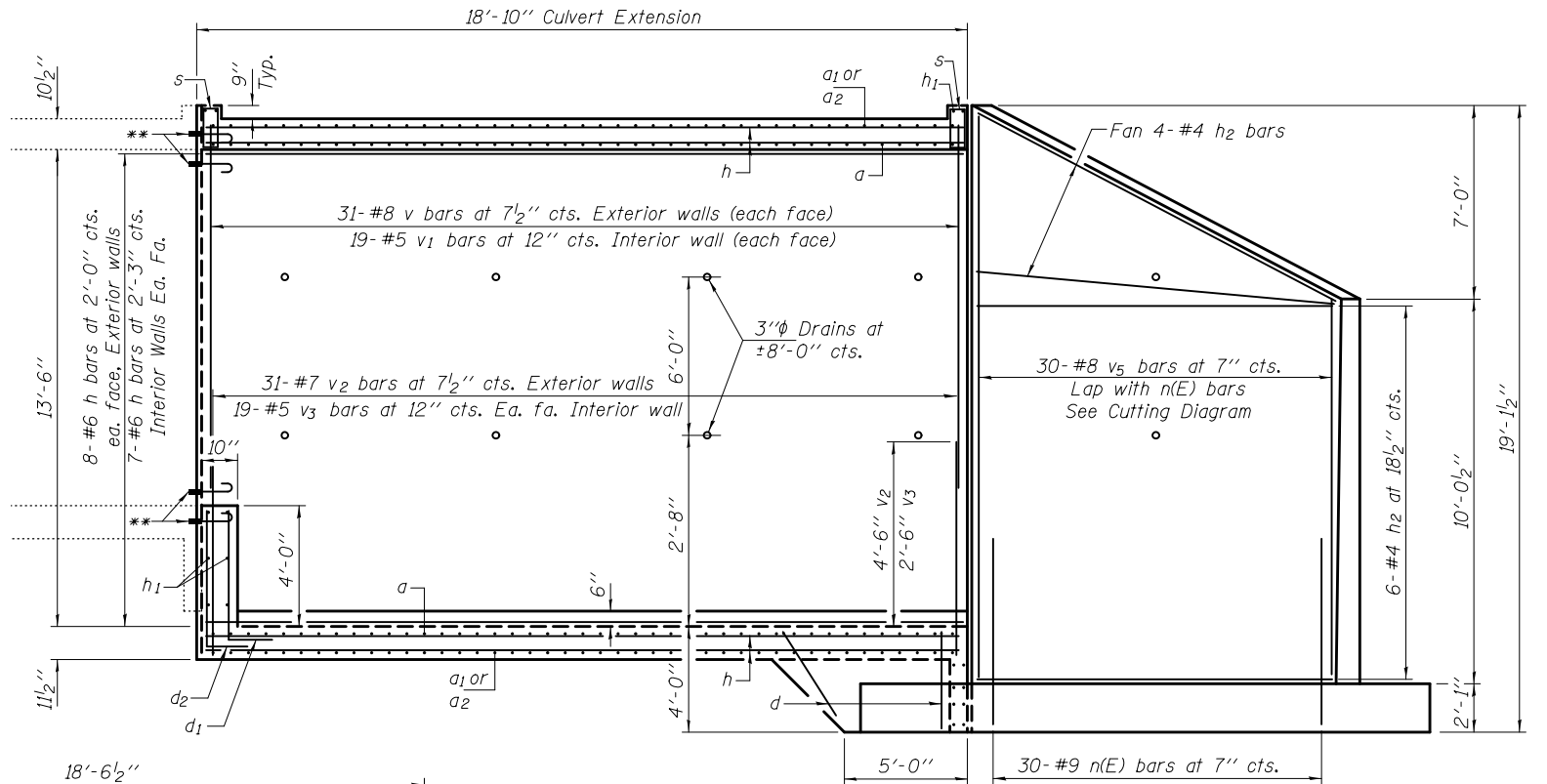
SECTION THRU WING

DESIGNED - CCC	DATE - MAY 12, 2017	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DOWNSTREAM CULVERT EXTENSION DETAILS SN 025-2016	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CHECKED - SMR	REVIS			70	(25-12R)	EFFINGHAM	424	180
DRAWN - Kyle M. Steffen	REVIS	SHEET NO. 3 OF 7 SHEETS		CONTRACT NO. 74664				
CHECKED - CCC SMR	REVIS			ILLINOIS FED. AID PROJECT				

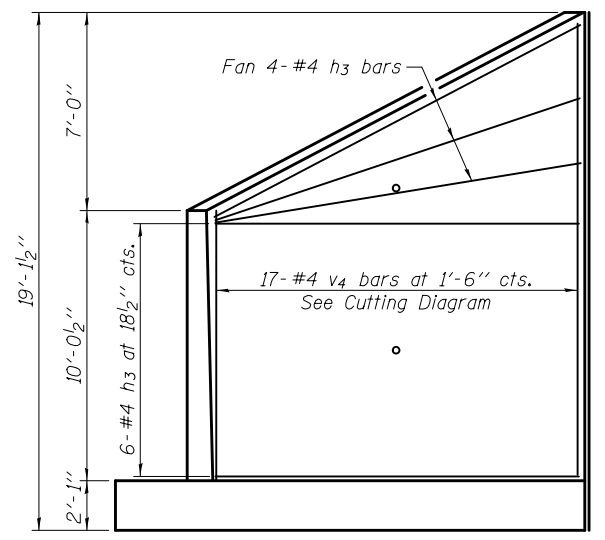


**REINFORCEMENT
LONG WING BACK FACE**

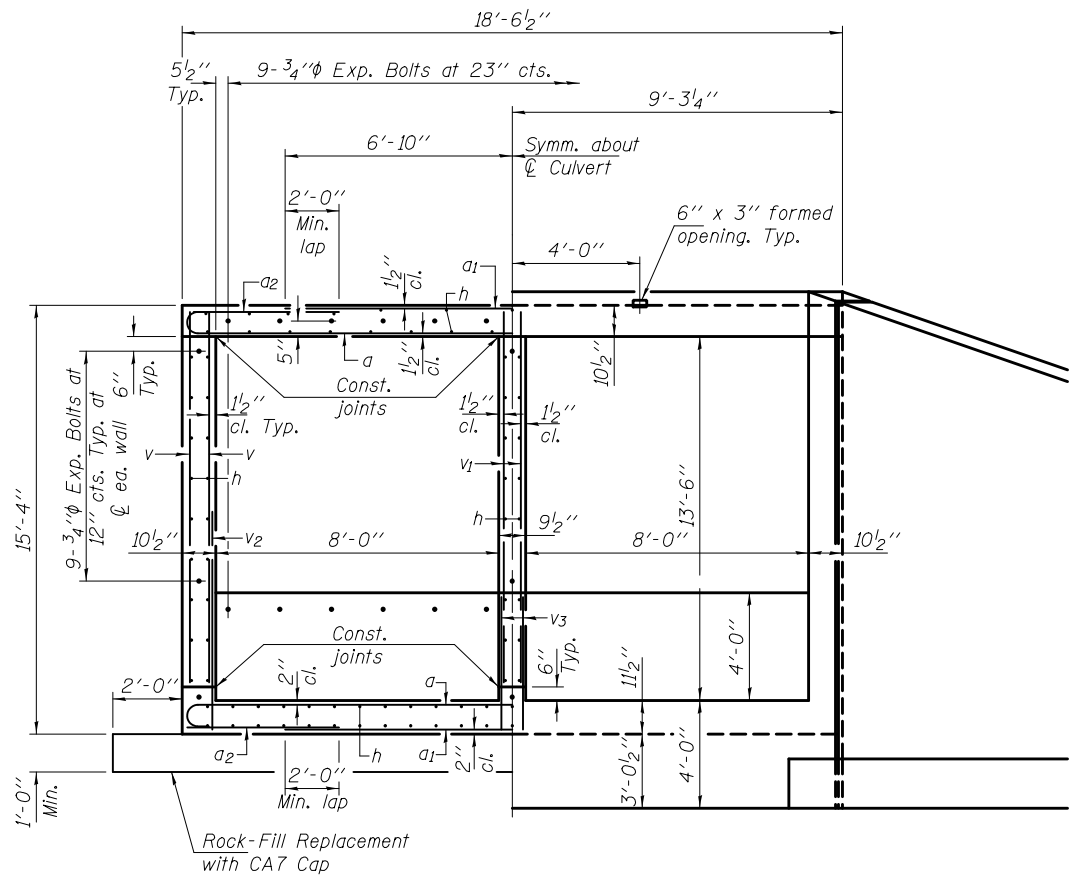
** Expansion Bolts shall be 3/4"φ hooked bolts and extend a minimum of 9" into new concrete.



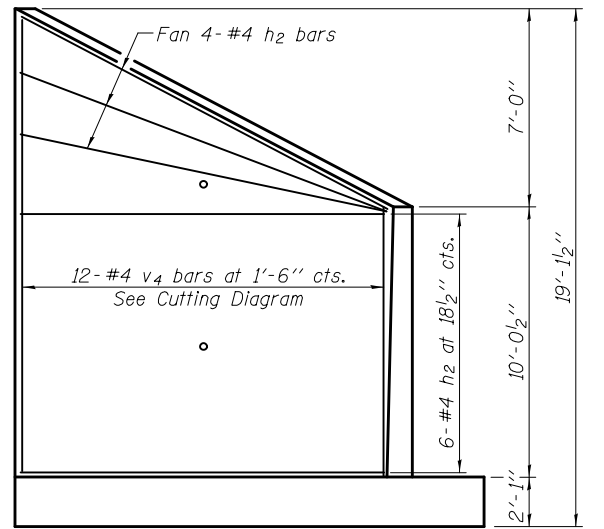
**REINFORCEMENT
SHORT WING BACK FACE**



**REINFORCEMENT
LONG WING FRONT FACE**

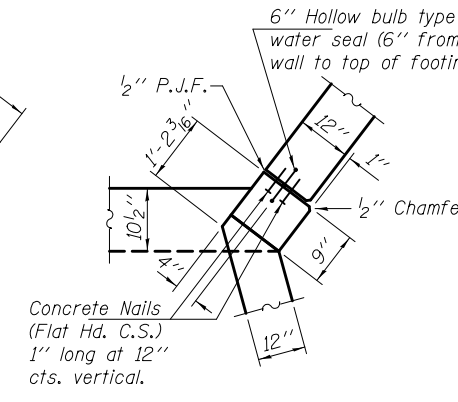
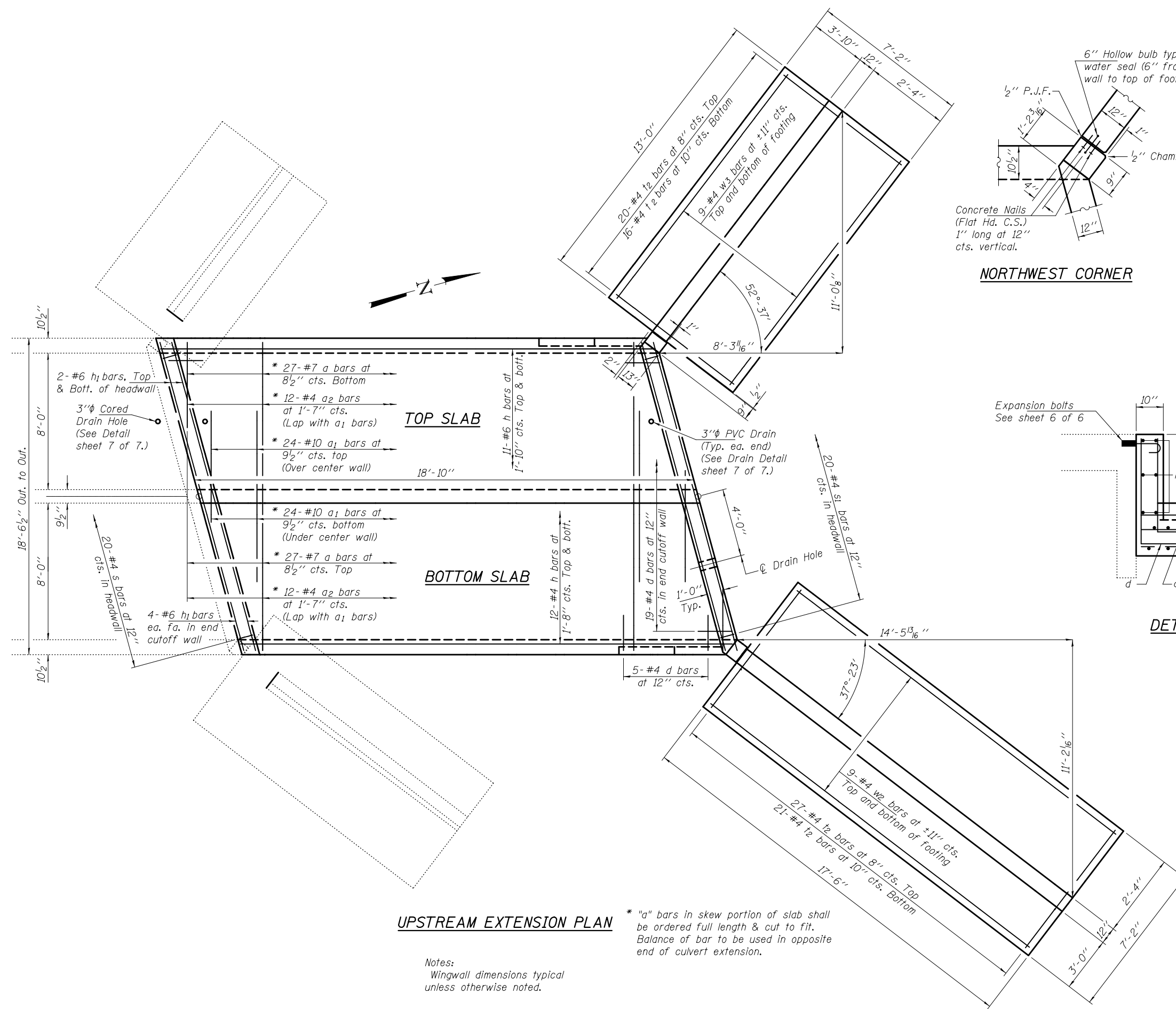


**HALF SECTION
THRU BARRELS** **HALF END ELEVATION**

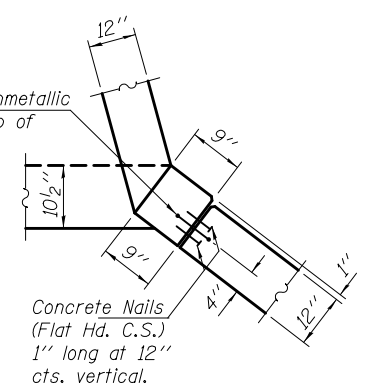


**REINFORCEMENT
SHORT WING FRONT FACE**

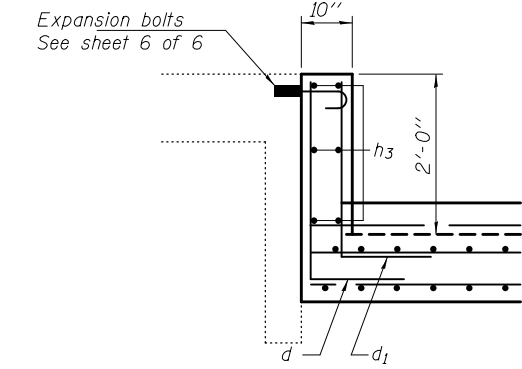
DESIGNED - CCC	PASSED <i>Carl Rieger</i> ENGINEER OF BRIDGES AND STRUCTURES	DATE - MAY 12, 2017	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DOWNSTREAM REPAIR DETAILS SN 025-2016	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CHECKED - SMR		REVISED			70	(25-1,2R)	EFFINGHAM	424	181
DRAWN - Kyle M. Steffen		REVISED			CONTRACT NO. 74664				
CHECKED - CCC SMR		REVISED			ILLINOIS FED. AID PROJECT				
					SHEET NO. 4 OF 7 SHEETS				



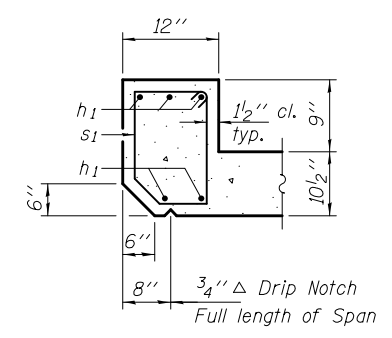
NORTHWEST CORNER



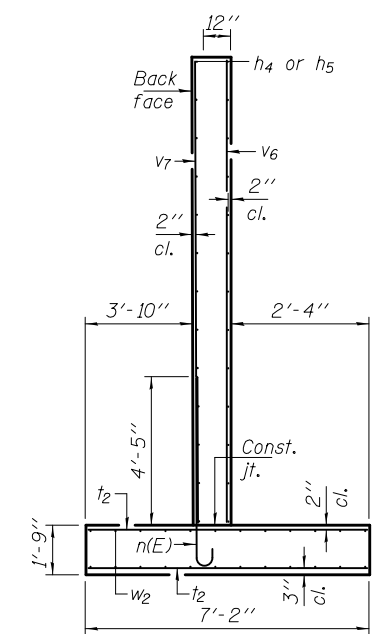
NORTHEAST CORNER



DETAIL A



SECTION THRU HEADWALL



SECTION THRU WING

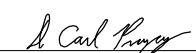
UPSTREAM EXTENSION PLAN

* "a" bars in skew portion of slab shall be ordered full length & cut to fit. Balance of bar to be used in opposite end of culvert extension.

Notes:
Wingwall dimensions typical unless otherwise noted.

DESIGNED - CCC
CHECKED - SMR
DRAWN - Kyle M. Steffen
CHECKED - CCC SMR

PASSED



ENGINEER OF BRIDGES AND STRUCTURES

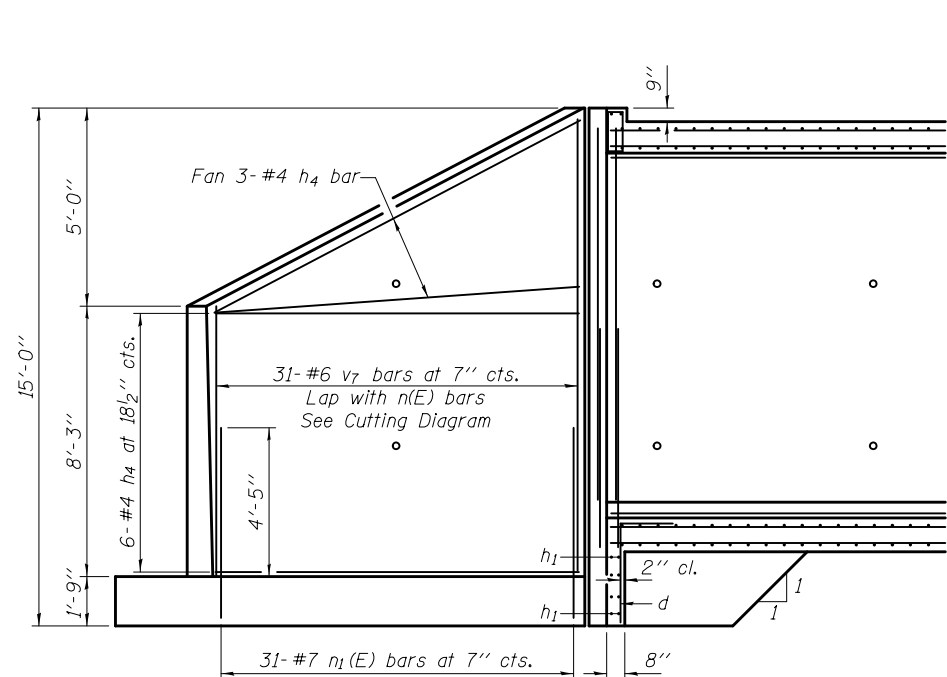
DATE - MAY 12, 2017
REVISED
REVISED

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

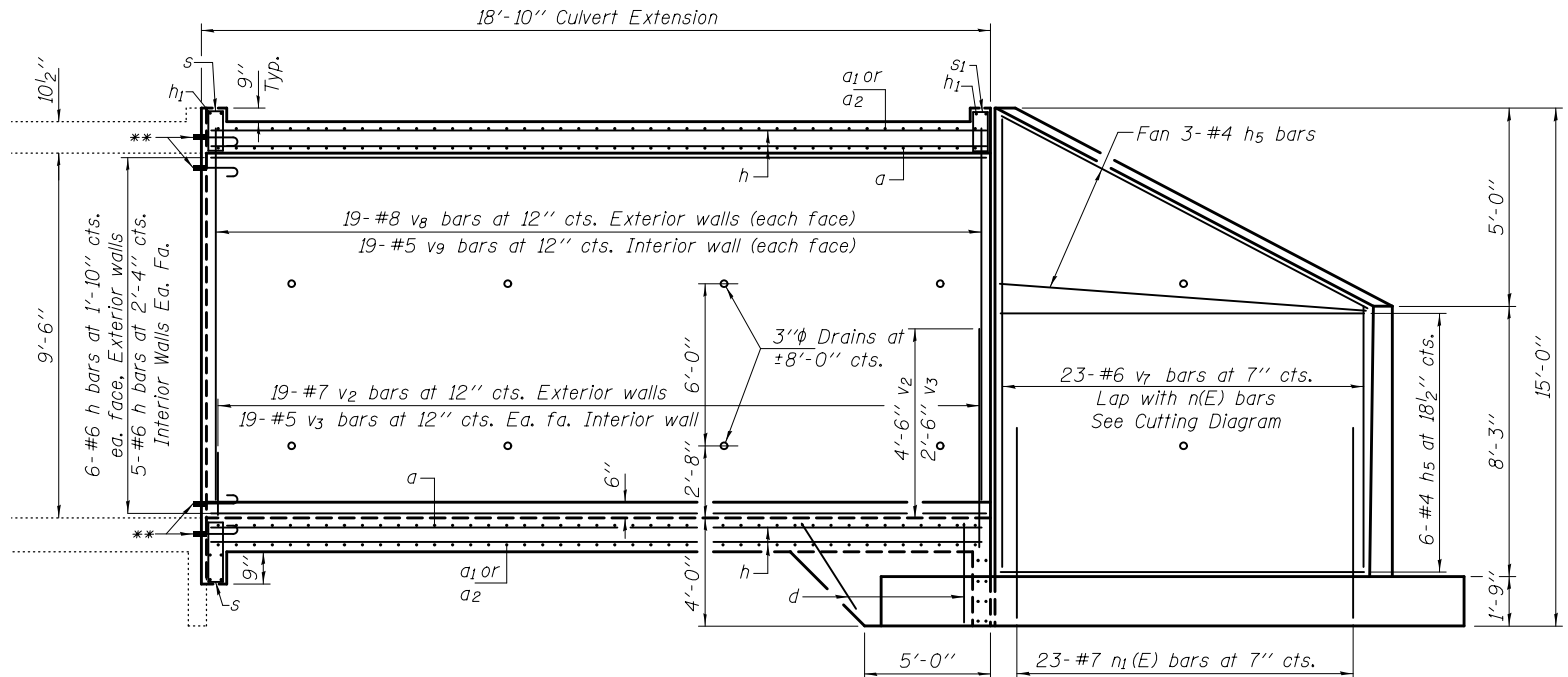
**UPSTREAM CULVERT EXTENSION DETAILS
SN 025-2016**

SHEET NO. 5 OF 7 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	(25-12R)	EFFINGHAM	424	182
CONTRACT NO. 74664			ILLINOIS FED. AID PROJECT	

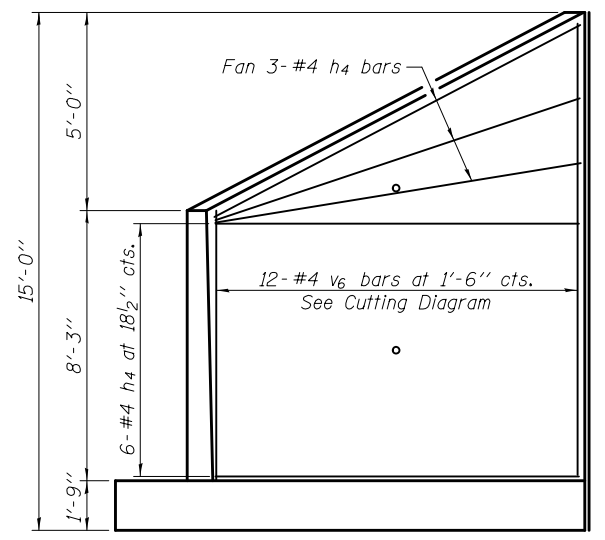


**REINFORCEMENT
LONG WING BACK FACE**

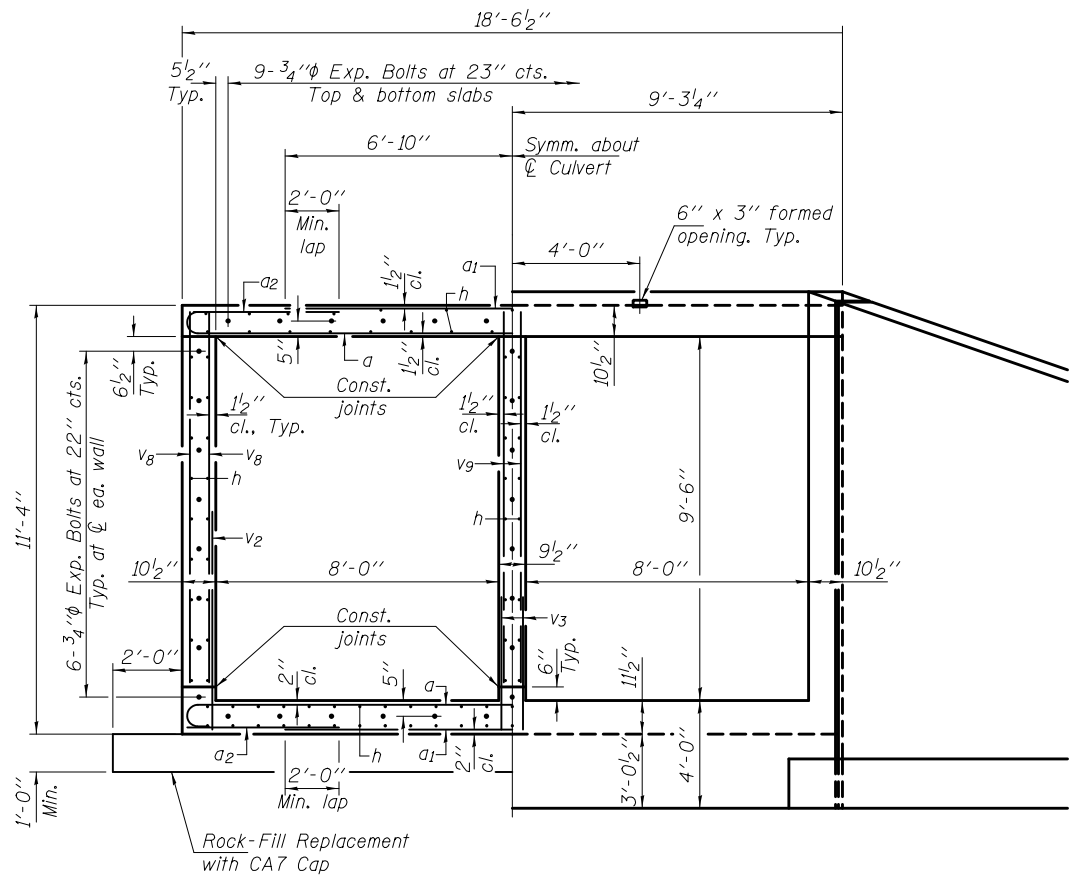


**REINFORCEMENT
SHORT WING BACK FACE**

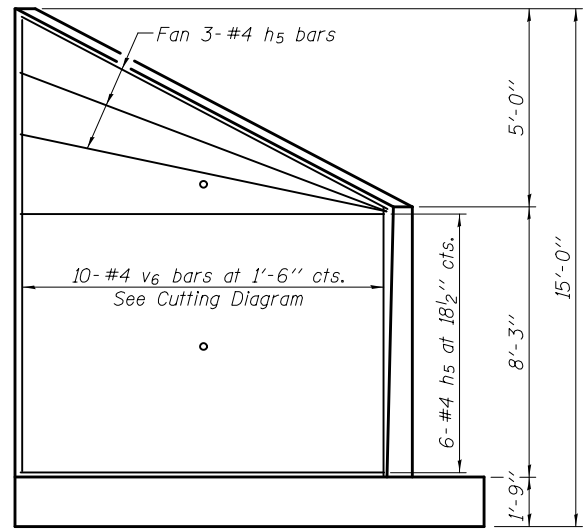
** Expansion Bolts shall be 3/4"φ hooked bolts and extend a minimum of 9" into new concrete.



**REINFORCEMENT
LONG WING FRONT FACE**



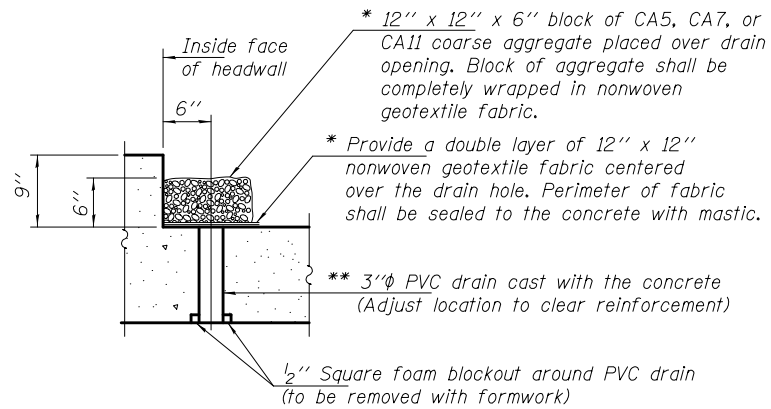
**HALF SECTION THRU BARRELS
HALF END ELEVATION**



**REINFORCEMENT
SHORT WING FRONT FACE**

DESIGNED - CCC	DATE - MAY 12, 2017	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	UPSTREAM REPAIR DETAILS SN 025-2016	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CHECKED - SMR	REVISOR			70	(25-1,2)R	EFFINGHAM	424	183
DRAWN - Kyle M. Steffen	REVISOR			CONTRACT NO. 74664				
CHECKED - CCC SMR	REVISOR			ILLINOIS FED. AID PROJECT				

PASSED
Carl Berger
ENGINEER OF BRIDGES AND STRUCTURES



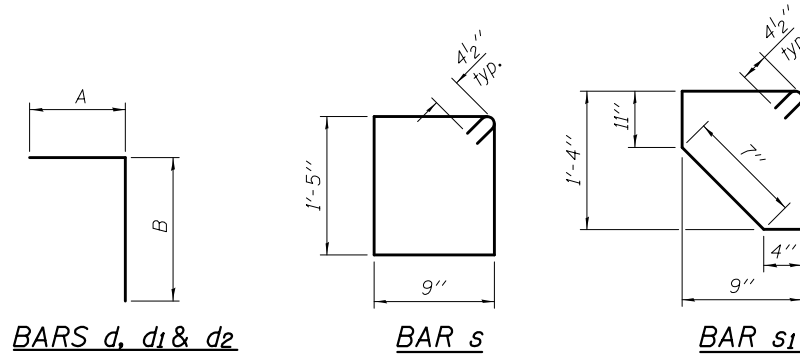
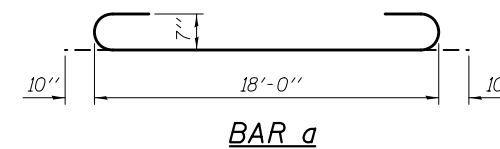
DRAIN DETAIL

(All costs associated with furnishing and constructing the above drain detail will not be measured for payment but shall be included in the contract unit price for the associated work.)

* Nonwoven geotextile fabric shall conform to the requirements of Article 1080.01 of the Standard Specifications. The minimum weight of the fabric shall be 6 ounces per square yard.
 ** 3"φ Cored drain hole in existing culvert. Cost included with Concrete Box Culverts.

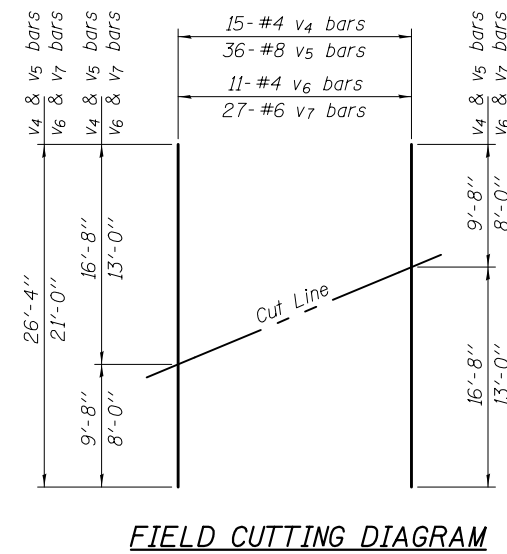
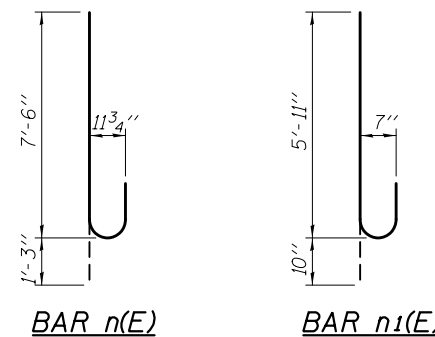
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a	108	#7	19'-8"	U
a ₁	96	#10	13'-8"	U
a ₂	96	#4	4'-6"	U
d	58	#4	5'-6"	L
d ₁	19	#4	5'-9"	L
d ₂	19	#4	6'-0"	L
h	172	#4	18'-6"	—
h ₁	41	#6	18'-10"	—
h ₂	20	#4	16'-8"	—
h ₃	20	#4	23'-8"	—
h ₄	18	#4	17'-2"	—
h ₅	18	#4	12'-8"	—
n(E)	72	#9	8'-9"	U
n ₁ (E)	54	#7	6'-9"	U
s	80	#4	5'-1"	□
s ₁	20	#4	4'-8"	□
t	56	#6	8'-11"	—
t ₁	72	#4	8'-11"	—
t ₂	84	#4	6'-10"	—
v	124	#8	14'-0"	—
v ₁	38	#5	15'-0"	—
v ₂	100	#7	5'-2"	—
v ₃	76	#5	3'-2"	—
v ₄	15	#4	26'-4"	—
v ₅	36	#8	26'-4"	—
v ₆	11	#4	21'-0"	—
v ₇	27	#6	21'-0"	—
v ₈	76	#8	10'-0"	—
v ₉	38	#5	9'-6"	—
w	20	#4	16'-8"	—
w ₁	20	#4	23'-8"	—
w ₂	18	#4	17'-2"	—
w ₃	18	#4	12'-8"	—
Concrete Removal		Cu. Yd.	4.3	
Concrete Box Culverts		Cu. Yd.	176.0	
Expansion Bolts 3/4"		Each	78	
Reinforcement Bars		Lbs.	30360	
Reinforcement Bars, Epoxy Coated		Lbs.	2890	



A & B DIMENSIONS

Bar	A	B
d	1'-9"	3'-9"
d	1'-9"	4'-0"
d	1'-9"	4'-3"



DESIGNED - CCC
 CHECKED - SMR
 DRAWN - Kyle M. Steffen
 CHECKED - CCC SMR

PASSED

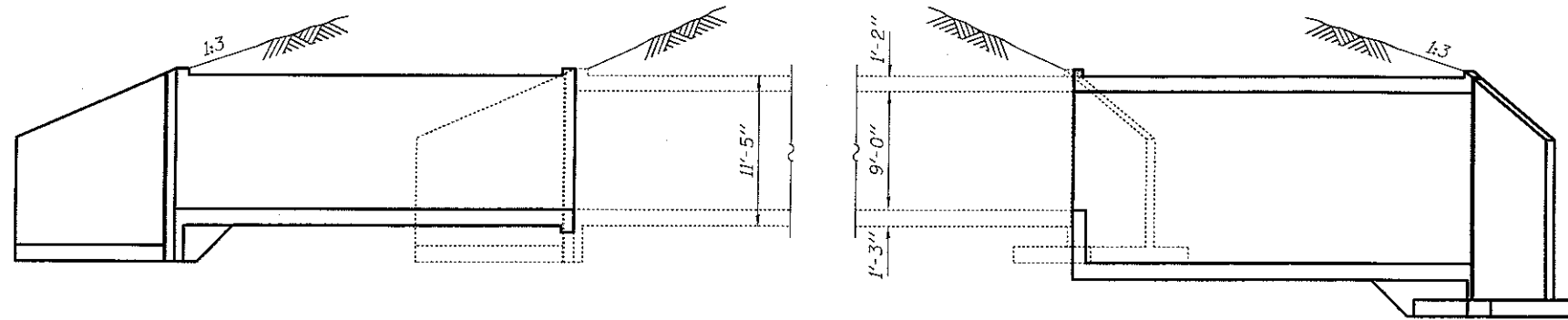
 ENGINEER OF BRIDGES AND STRUCTURES

DATE - MAY 12, 2017
 REVISED
 REVISED

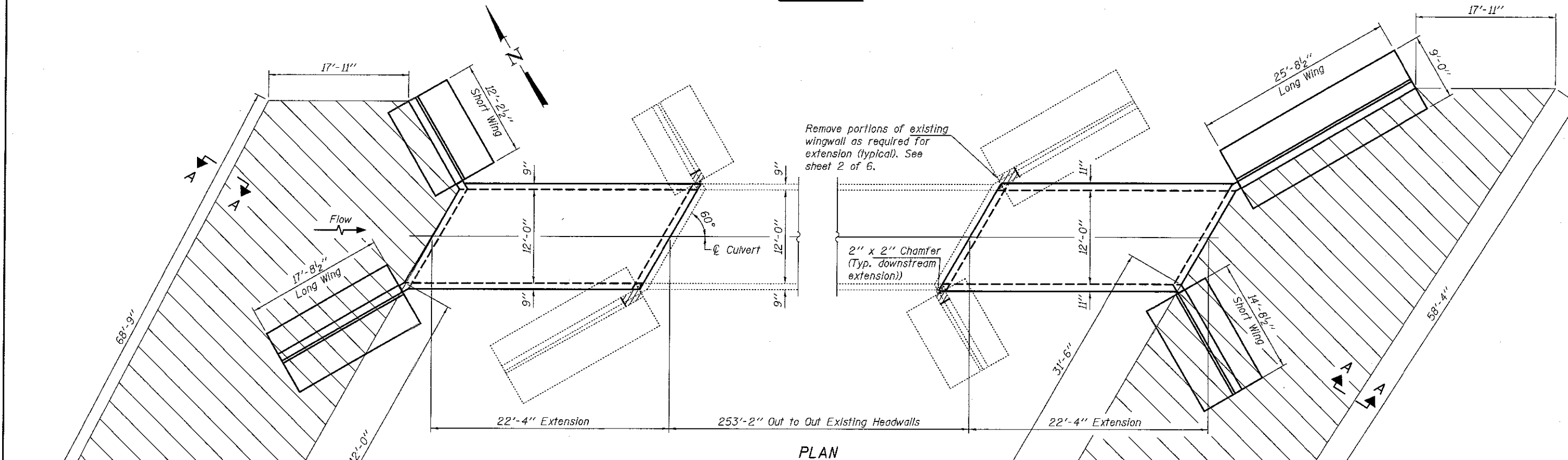
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

REPAIR DETAILS
 SN 025-2016
 SHEET NO. 7 OF 7 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	(25-12R)	EFFINGHAM	424	184
				CONTRACT NO. 74664
ILLINOIS FED. AID PROJECT				



ELEVATION



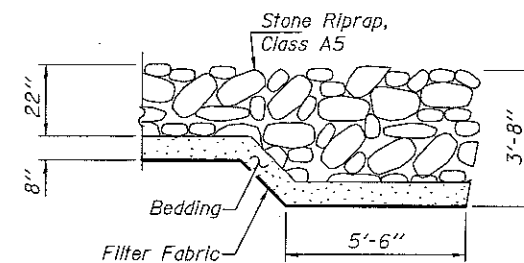
PLAN

The contractor shall excavate to the specified depth for placement of the Rock Fill Replacement under the culvert extensions and the wingwall footings (if present) and allow the District inspectors to test and verify that the foundation soils have a minimum Q_u of at least 2.5 tsf. If the required soil strength is not present, the Contractor shall excavate an additional depth and width as directed by the Engineer to locate suitable strength material. The excavated area shall then be backfilled to the proper elevations using Rockfill capped with 6" of Coarse Aggregate. Cost of excavation and backfill material will be paid for per Art. 109.04 (b) of the Standard Specifications

GENERAL NOTES

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.

Expansion bolts shall consist of approved expansion anchors, providing minimum certified proof load = 4,080 lbs., and $\frac{3}{4}$ " ϕ x 12" hooked bolts. All exposed edges shall have standard $\frac{3}{4}$ " chamfers. Reinforcement bars designated (E) shall be epoxy coated.



SECTION A-A

Cost of any excavation necessary for placement of riprap or bedding material shall be included with Stone Riprap, Class A5

▨ - Limits of Stone Riprap, Class A5

DESIGN STRESSES
FIELD UNITS

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

TOTAL BILL OF MATERIAL

ITEM	UNIT	TOTAL
Concrete Removal	Cu. Yd.	3.6
Concrete Box Culverts	Cu. Yd.	164.2
Reinforcement Bars, Epoxy Coated	Pound	3210
Reinforcement Bars	Pound	41430
Structure Excavation	Cu. Yd.	109.0
Expansion Bolts $\frac{3}{4}$ "	Each	64
Stone Riprap, Class A5	Sq. Yd.	358.2
Filter Fabric	Sq. Yd.	358.2
Rock-Fill Replacement	Ton	55



Expires: November 30, 2018

DESIGNED - *[Signature]*
CHECKED - *[Signature]*
DRAWN - Kyle M. Steffen
CHECKED - *[Signature]*

PASSED
[Signature]
ENGINEER OF BRIDGES AND STRUCTURES

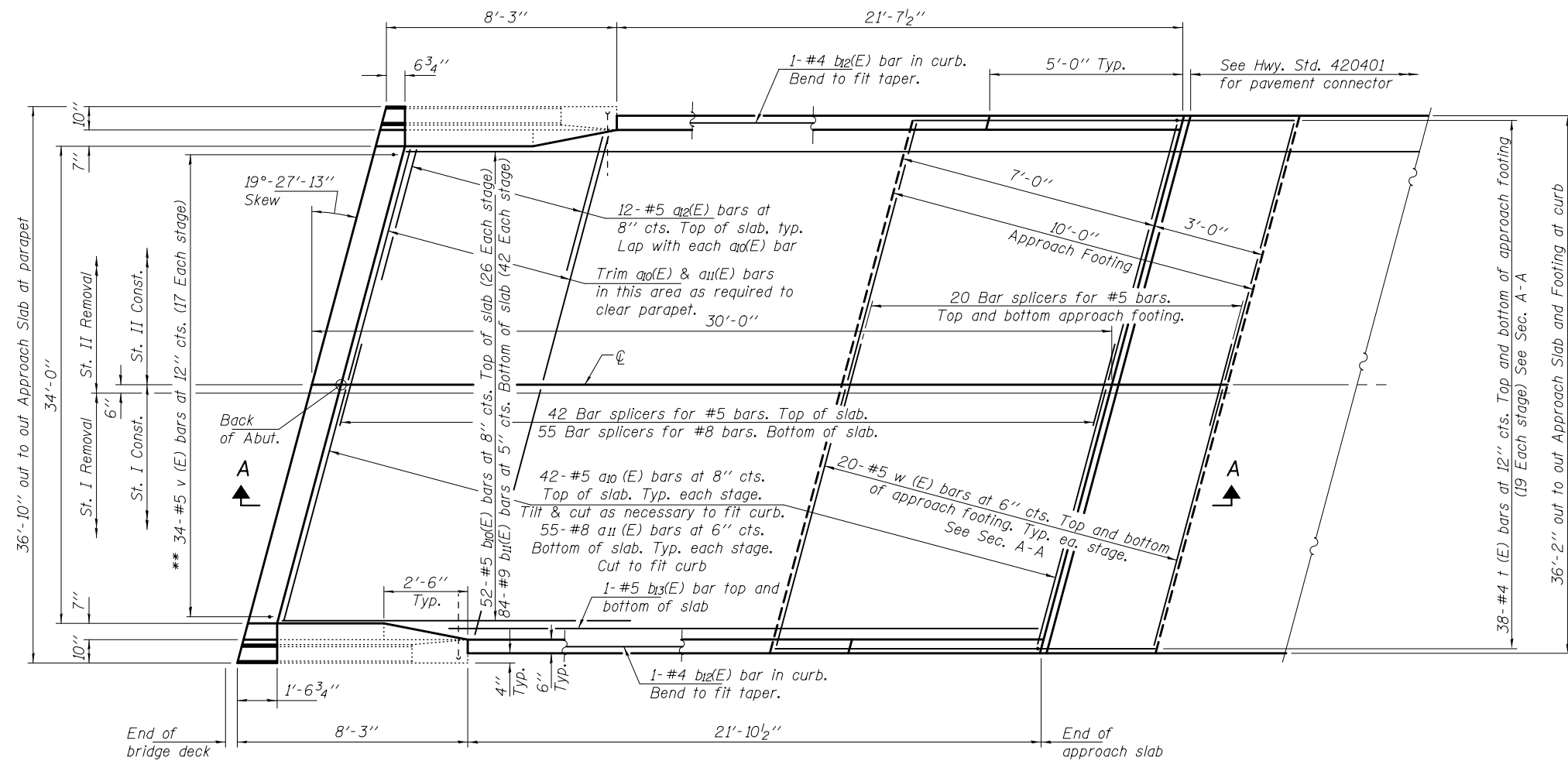
DATE - MAY 12, 2017
REVISED
REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL PLAN & ELEVATION
F.A.I. ROUTE 70
SN 025-8689
SHEET NO. 1 OF 6 SHEETS

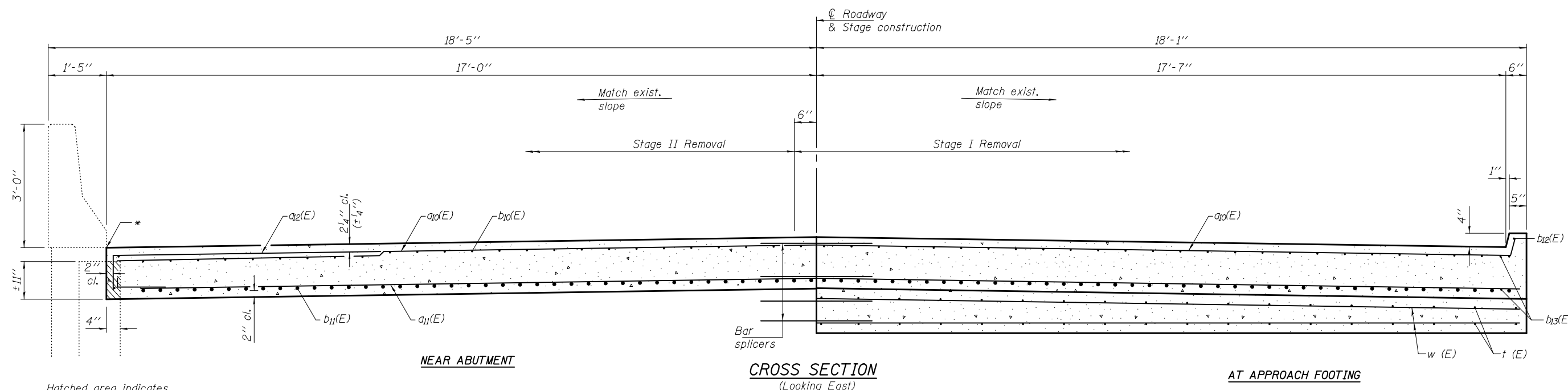
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
TO	(25-1,2)R	EFFINGHAM	424	185

CONTRACT NO. 74664
ILLINOIS FED. AID PROJECT



PLAN
East Approach shown
West similar by rotation except for removal line.

** Epoxy grout v (E) bars in 9" min. holes according to Article 584 of the Standard Specifications.



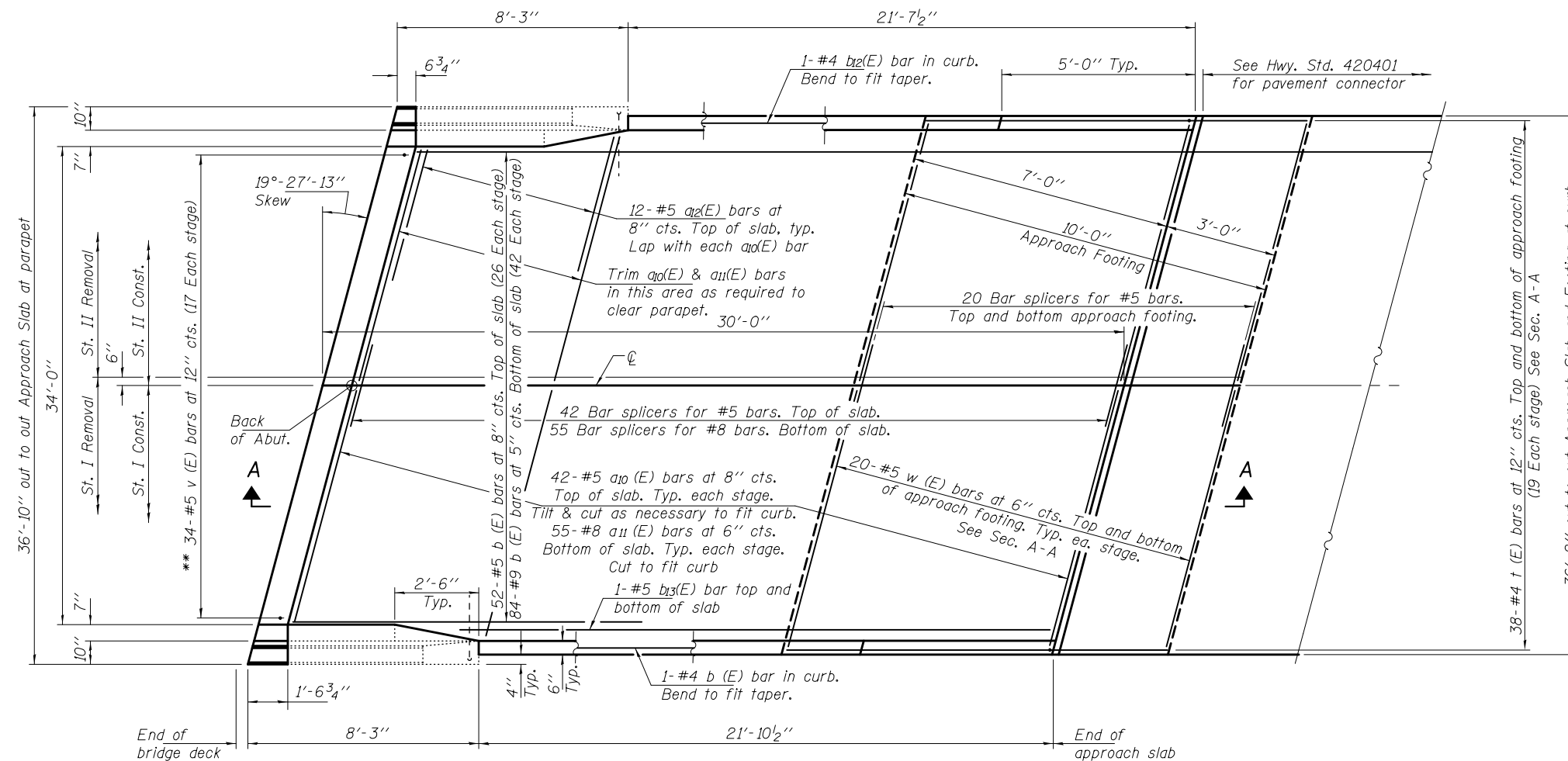
Hatched area indicates Concrete Removal.

* Prefomed Expansion Joint Filler according to Article 1051.09 of the Standard Specifications; full depth of slab, full length of parapet. Typ. each parapet.

BAIA-CIP-34FS-L(30°) 07-22-16

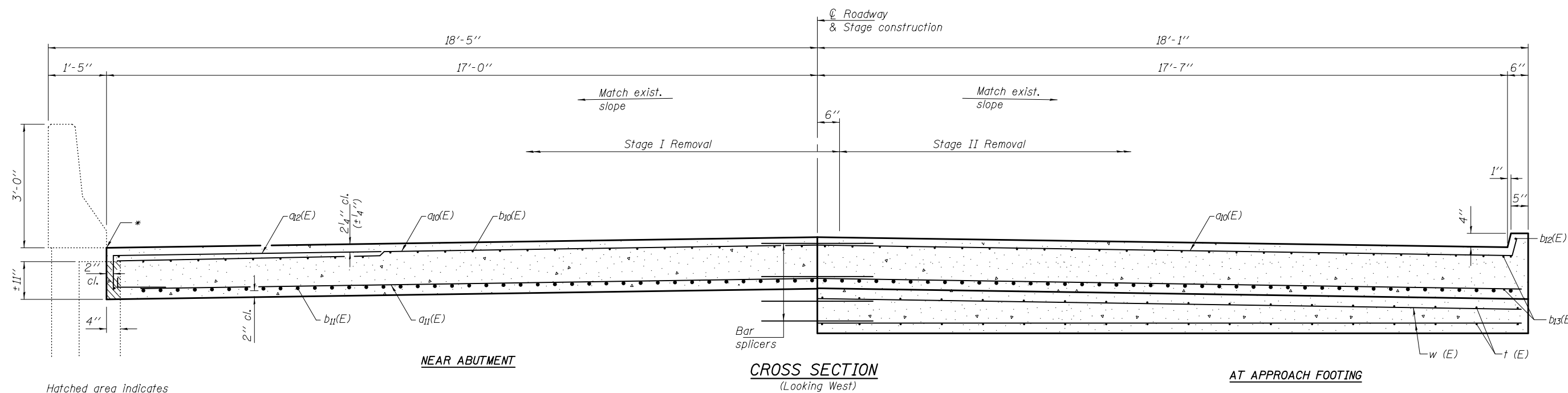
For Section A-A, see sheet 11 of 16.

DESIGNED VHV	DATE MAY 12, 2017	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	BRIDGE APPROACH SLAB DETAILS		F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CHECKED DAB	REVISOR		SN 025-0005		70	(25-1,2)R	EFFINGHAM	496	186
DRAWN baliva	REVISOR	SHEET NO. 10 OF 16 SHEETS		CONTRACT NO. 74664		ILLINOIS FED. AID PROJECT			
CHECKED VHV DAB	ENGINEER OF BRIDGES AND STRUCTURES								



PLAN
East Approach shown
West similar by rotation except for removal line.

** Epoxy grout v (E) bars in 9" min. holes according to Article 584 of the Standard Specifications.



NEAR ABUTMENT

CROSS SECTION
(Looking West)

AT APPROACH FOOTING

Hatched area indicates Concrete Removal.

* Prefomed Expansion Joint Filler according to Article 1051.09 of the Standard Specifications; full depth of slab, full length of parapet. Typ. each parapet.

For Section A-A, see sheet 12 of 16.

BAIA-CIP-34FS-L(30°) 07-22-16

DESIGNED	VHV
CHECKED	DAB
DRAWN	baliva
CHECKED	VHV DAB

PASSED	<i>Carl Pinger</i> ENGINEER OF BRIDGES AND STRUCTURES
--------	--

DATE	MAY 12, 2017
REVISED	
REVISED	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BRIDGE APPROACH SLAB DETAILS
SN 025-0006

SHEET NO. 11 OF 16 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	(25-1,2)R	EFFINGHAM	496	187
CONTRACT NO.			74664	
ILLINOIS FED. AID PROJECT				

Notes:

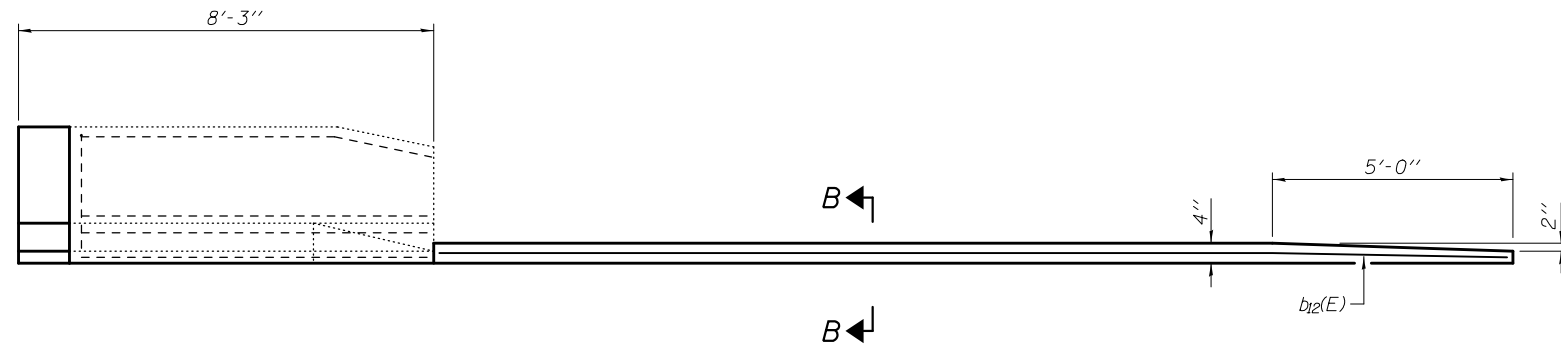
The joint opening shall be adjusted for temperature per Article 520.04 of the Standard Specifications. However, since this detail is for jointless structures, the length of bridge used to calculate the adjustment shall be equal to half the total bridge length plus the length of the bridge approach pavement.

Approach slab shall be paid for as Concrete Superstructure (Approach Slab).

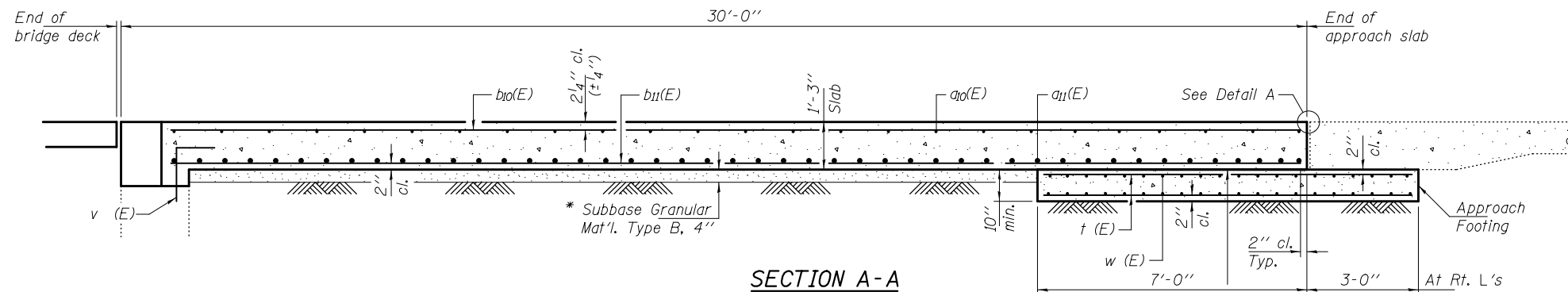
Approach footing concrete shall be paid for as Concrete Structures.

The approach footing maximum applied service bearing pressure (Qmax) = 2.0 ksf.

Cost of excavation for approach footing included with Concrete Structures.



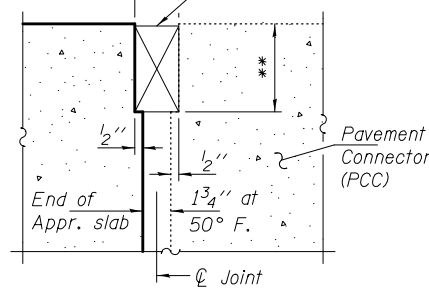
INSIDE ELEVATION OF PARAPET AND CURB



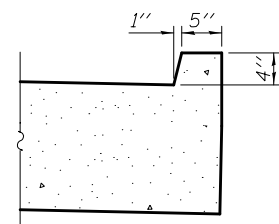
SECTION A-A

* 10 mil. Polyethylene bond breaker on steel trowel finish

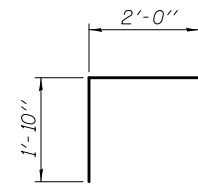
2 3/4" at 50° F. See Notes.
* Expansion joint. See Special Provisions. Recess 1/4" minimum. Run out to out of curb.



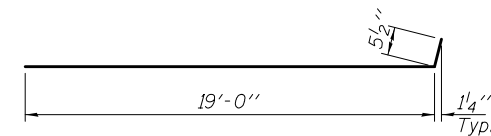
DETAIL A
(At Rt. L's)



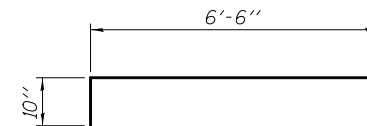
VIEW B-B



BAR v (E)



BAR a10 (E)



BAR a12 (E)

**FOUR APPROACHES
BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
a10(E)	336	#5	19'-5"	—
a11(E)	440	#8	19'-0"	—
a12(E)	96	#5	7'-4"	—
b10(E)	208	#5	28'-7"	—
b11(E)	336	#9	28'-7"	—
b12(E)	8	#5	21'-6"	—
b13(E)	16	#5	21'-6"	—
t (E)	152	#4	9'-8"	—
v (E)	136	#5	3'-10"	┌
w (E)	160	#5	19'-0"	—
Bar Splicers		Each	548	
Concrete Superstructure (Approach Slab)		Cu. Yd.	176.0	
Concrete Structures		Cu. Yd.	48.0	
Reinforcement Bars, Epoxy Coated		Pound	73960	

* Cost included with Concrete Superstructure (Approach Slab).
** Per manufacturer recommendations

BAIA-CIP-34FS-L(30°) 07-22-16

DESIGNED	VHV
CHECKED	DAB
DRAWN	baliva
CHECKED	VHV DAB

PASSED	<i>Carl Pinger</i> ENGINEER OF BRIDGES AND STRUCTURES
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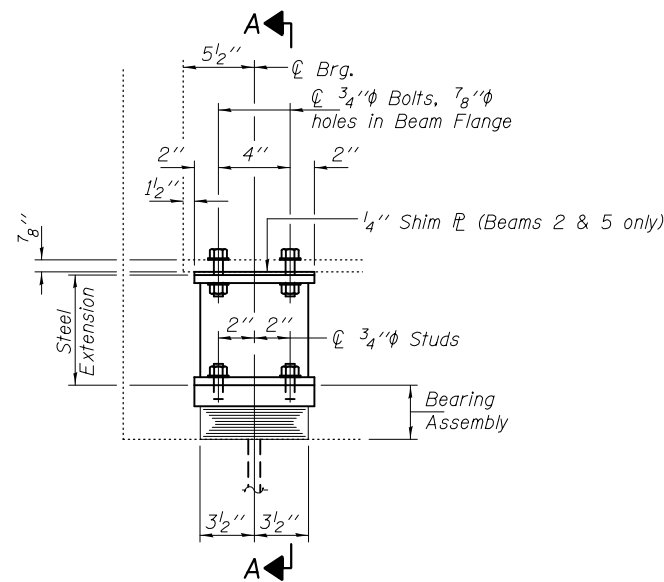
DATE	MAY 12, 2017
REVISED	
REVISED	

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

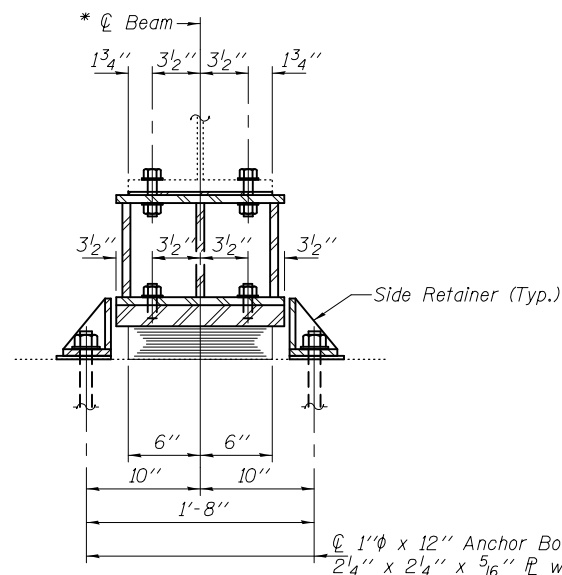
**BRIDGE APPROACH SLAB DETAILS
SN 025-0005 & 0006**

SHEET NO. 12 OF 16 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	(25-1,2R)	EFFINGHAM	496	188
CONTRACT NO.			74664	
ILLINOIS FED. AID PROJECT				



ELEVATION AT WEST ABUTMENT



SECTION A-A
* 30WF116

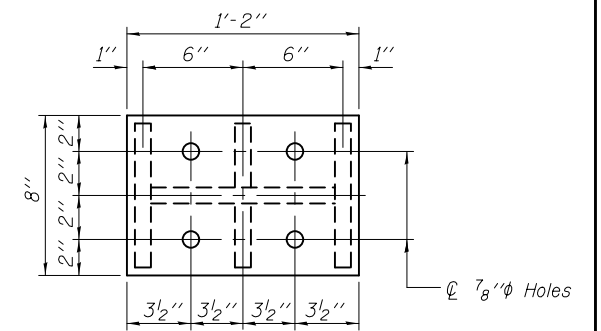
TYPE I ELASTOMERIC EXP. BRG.

BEAM REACTIONS

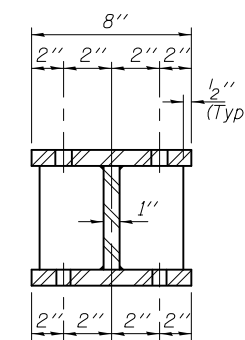
RP	(K)	17.6
R ₁	(K)	30.4
Imp.	(K)	8.7
R (Total)	(K)	56.7

Notes:

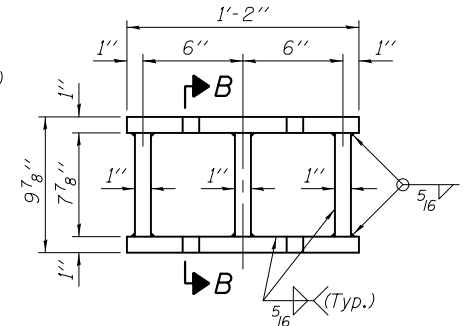
Diaphragm removal and reinstallation may be required to facilitate drilling holes. Cost included with Furnishing and Erecting Structural Steel.
 New steel extensions, shim plates and connection bolts are included with Furnishing and Erecting Structural Steel.
 Prior to ordering any material, the Contractor shall verify in the field all bearing height and shim thickness dimensions. Adjustment must account for deck heave due to pack rust (if present).
 Min. jack capacity = 35 Tons.
 Anchor bolts shall be ASTM F1554 all-thread (or an Engineer-approved alternate material) of the grade(s) and diameter(s) specified. ASTM A307 Grade C anchor bolts may be used in lieu of ASTM F1554 Grade 36 (Fy=36ksi). The corresponding specified grade of AASHTO M314 anchor bolts may be used in lieu of ASTM F1554.
 Anchor bolts at fixed bearings may be either cast in place or installed in holes drilled after the supported member is in place.
 Drilled and set anchor bolts shall be installed according to Article 521.06 of the Standard Specifications.
 Cost of Side retainers and Stainless Steel plates shall be included in the cost of Elastomeric Bearing Assembly, Type I.



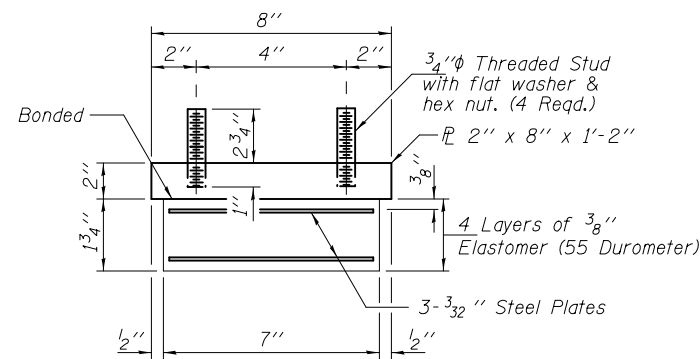
PLAN TOP AND BOTTOM PLATE



SECTION B-B

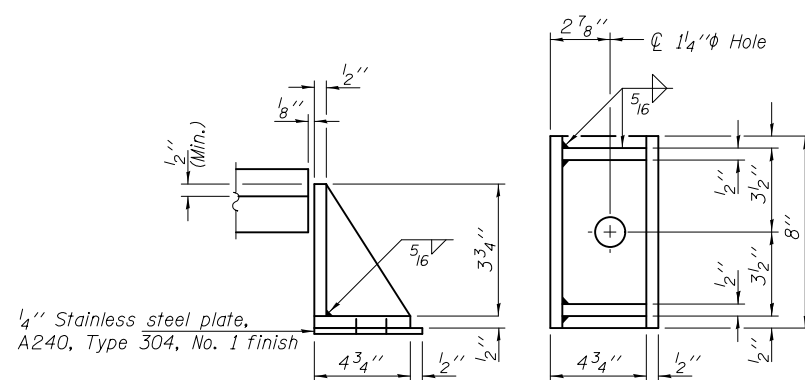


STEEL EXTENSION DETAIL



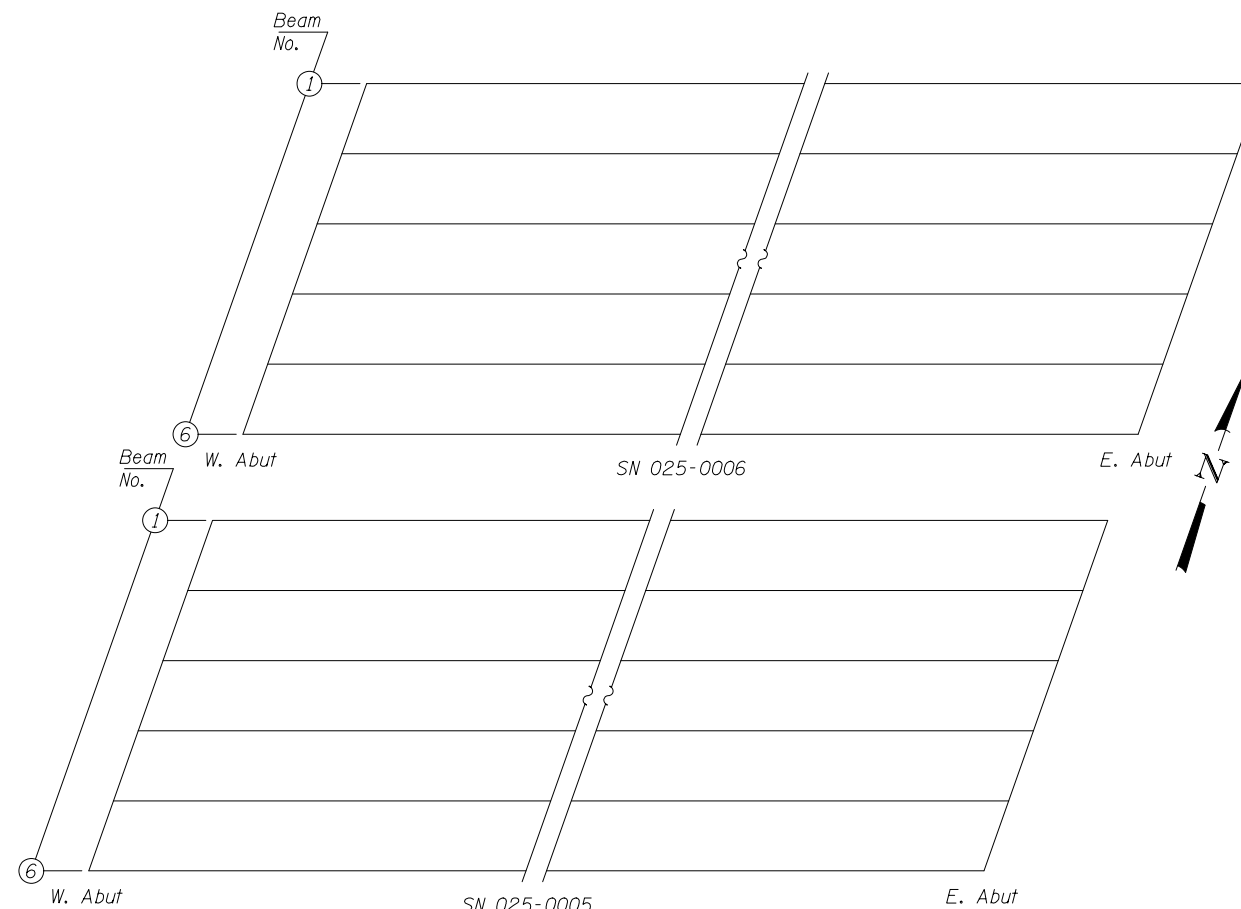
BEARING ASSEMBLY

Note: Shim plates shall not be placed under Bearing Assembly.

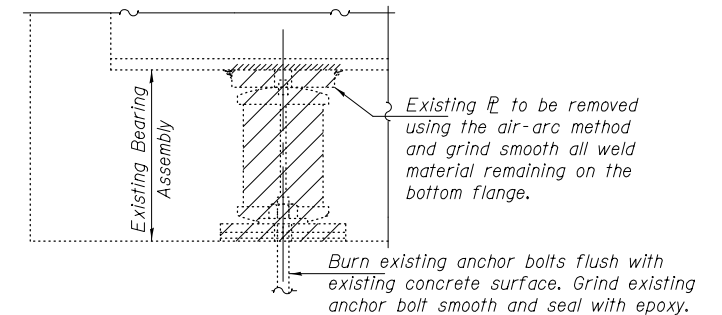


SIDE RETAINER

Equivalent rolled angle with stiffeners will be allowed in lieu of welded plates.



BEAM LAYOUT



EXISTING BEARING REMOVAL DETAIL

Cost included with Jack and Remove Existing Bearings.

BILL OF MATERIAL

Item	Unit	Total
Elastomeric Bearing Assembly, Type I	Each	12
Jack and Remove Existing Bearings	Each	12
Furnishing and Erecting Structural Steel	Pound	1650
Anchor Bolts 1"φ	Each	24

TYI/REPS 12-03-2008

DESIGNED	SMR
CHECKED	VHV
DRAWN	baliva
CHECKED	SMR VHV

PASSED	<i>Carl Berger</i> ENGINEER OF BRIDGES AND STRUCTURES
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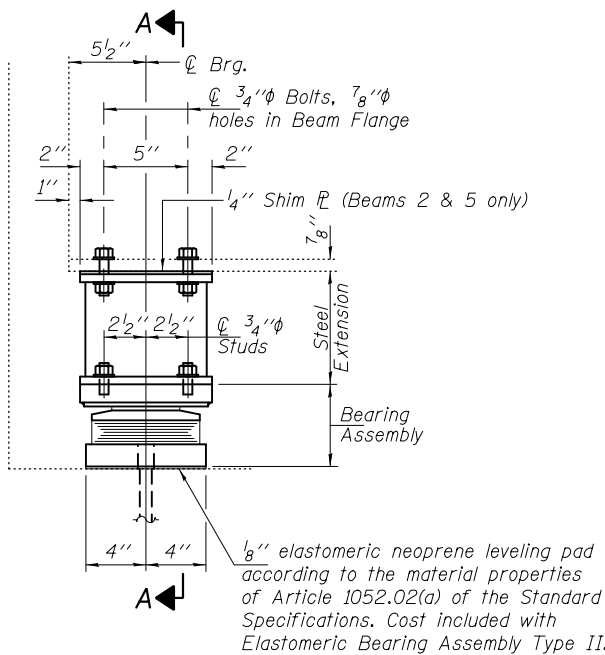
DATE	MAY 12, 2017
REVISED	
REVISED	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

W. ABUTMENT BEARING REPLACEMENT DETAILS
SN 025-0005 & 0006

SHEET NO. 13 OF 16 SHEETS

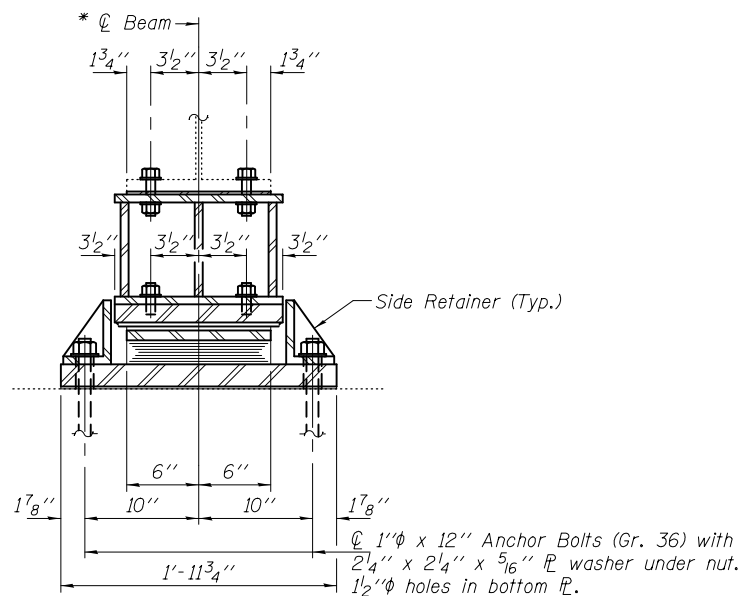
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	(25-1,2R)	EFFINGHAM	496	189
ILLINOIS FED. AID PROJECT			CONTRACT NO. 74664	



ELEVATION AT EAST ABUTMENT

TYPE II TFE ELASTOMERIC EXP. BRG.

For beam layout, see sheet 13 of 16.



SECTION A-A

* 30WF116

BEAM REACTIONS

RP	(K)	17.6
R \dot{L}	(K)	30.4
Imp.	(K)	8.7
R (Total)	(K)	56.7

Notes:

Diaphragm removal and reinstallation may be required to facilitate drilling holes. Cost included with Furnishing and Erecting Structural Steel.

New steel extensions, shim plates and connection bolts are included with Furnishing and Erecting Structural Steel. Prior to ordering any material, the Contractor shall verify in the field all bearing height and shim thickness dimensions. Min. jack capacity = 35 Tons.

Anchor bolts shall be ASTM F1554 all-thread (or an Engineer-approved alternate material) of the grade(s) and diameter(s) specified. ASTM A307 Grade C anchor bolts may be used in lieu of ASTM F1554 Grade 36 (Fy=36ksi).

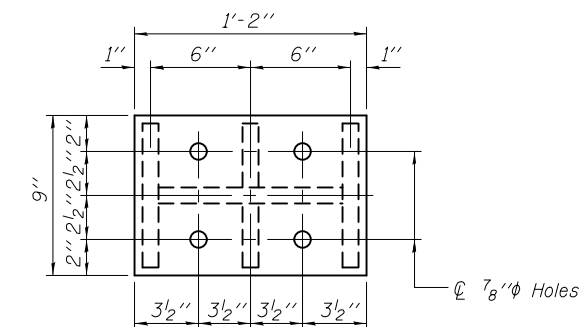
The corresponding specified grade of AASHTO M314 anchor bolts may be used in lieu of ASTM F1554.

Anchor bolts for Type II bearings shall be placed in holes drilled through the bottom bearing plate after members are in place. Side retainers shall be placed after bolts are installed. Drilled and set anchor bolts shall be installed according to Article 521.06 of the Standard Specifications.

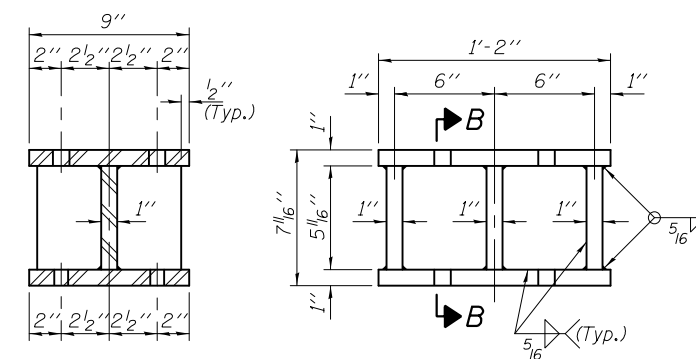
Side retainers shall be included in the cost of Elastomeric Bearing Assembly, Type II.

The 1/8" PTFE sheet shall be bonded directly to the top steel plate with a two-component, medium viscosity epoxy resin, conforming to the requirements of the Federal Specification MMM-A-134, Type I. The bond agent shall be applied on the full area of the contact surfaces.

Bonding of 1/8" PTFE sheet during vulcanizing process will be permitted provided the process and method of adjusting assembly height is approved by the Engineer.

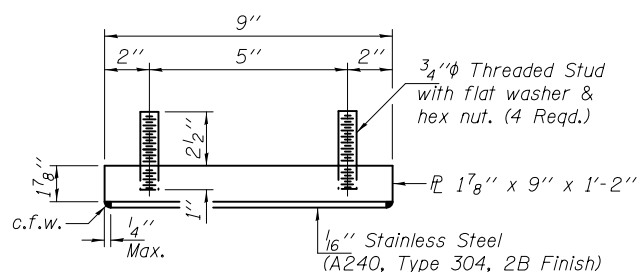


PLAN TOP AND BOTTOM PLATE



SECTION B-B

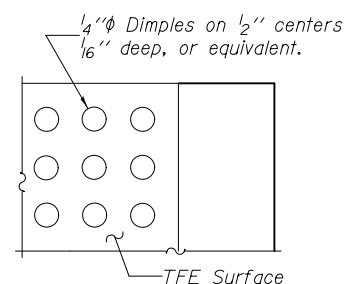
STEEL EXTENSION DETAIL



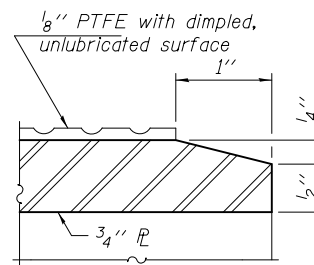
TOP BEARING ASSEMBLY

(Looking North)

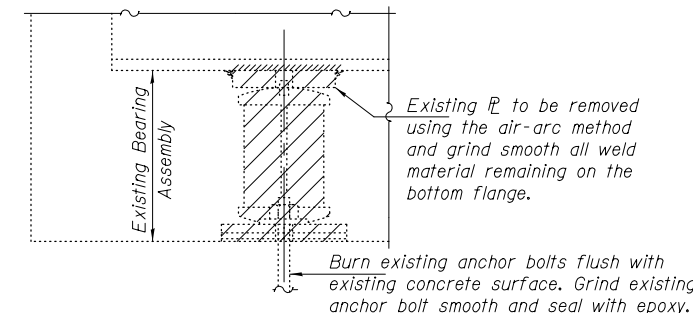
** 1/8" PTFE dimpled, unlubricated



PLAN-TFE SURFACE

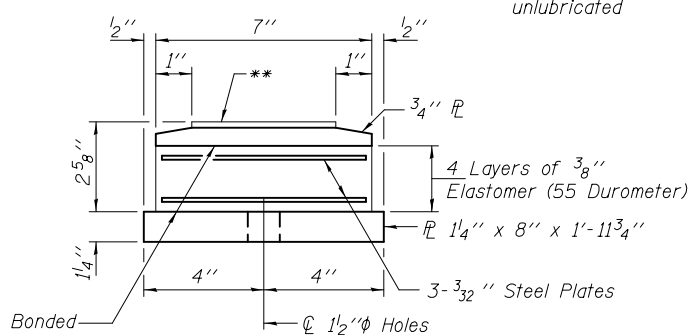


SECTION THRU TFE

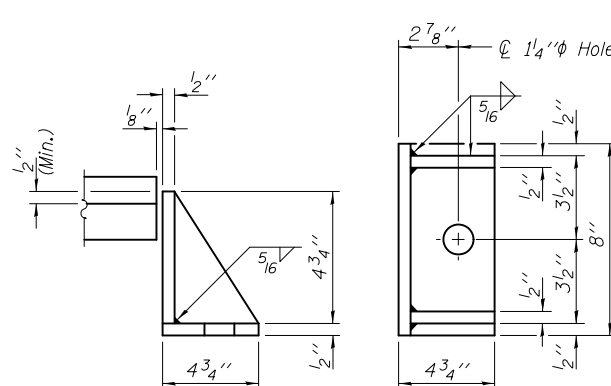


EXISTING BEARING REMOVAL DETAIL

Cost included with Jack and Remove Existing Bearings.

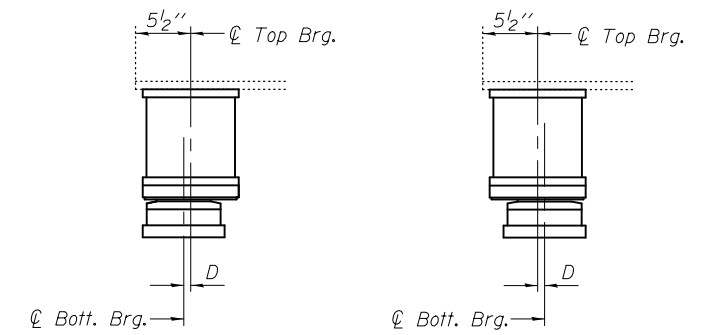


BOTTOM BEARING ASSEMBLY



SIDE RETAINER

Equivalent rolled angle with stiffeners will be allowed in lieu of welded plates.



BELOW 50° F.

(Move bott. brg. away from fixed brg.)

ABOVE 50° F.

(Move bott. brg. toward fixed brg.)

SETTING ANCHOR BOLTS AT EXP. BRG.

D = 1/8" per each 100' of expansion for every 15° temp. change from the normal temp. of 50°F.

BILL OF MATERIAL

Item	Unit	Total
Elastomeric Bearing Assembly Type II	Each	12
Jack and Remove Existing Bearings	Each	12
Furnishing and Erecting Structural Steel	Pound	1700
Anchor Bolts 1" ϕ	Each	24

TYII/REPS 12-03-2008

DESIGNED	SMR
CHECKED	VHV
DRAWN	baliva
CHECKED	SMR VHV

PASSED	<i>Carl Berger</i> ENGINEER OF BRIDGES AND STRUCTURES
--------	--

DATE	MAY 12, 2017
REVISED	
REVISED	

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

E. ABUTMENT BEARING REPLACEMENT DETAILS
 SN 025-0005 & 0006

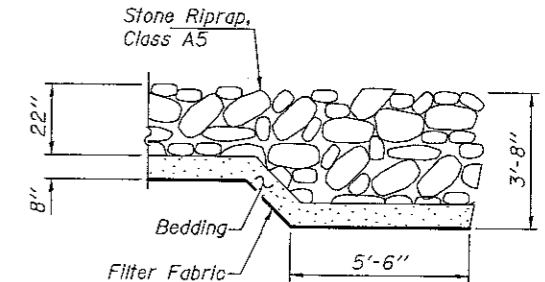
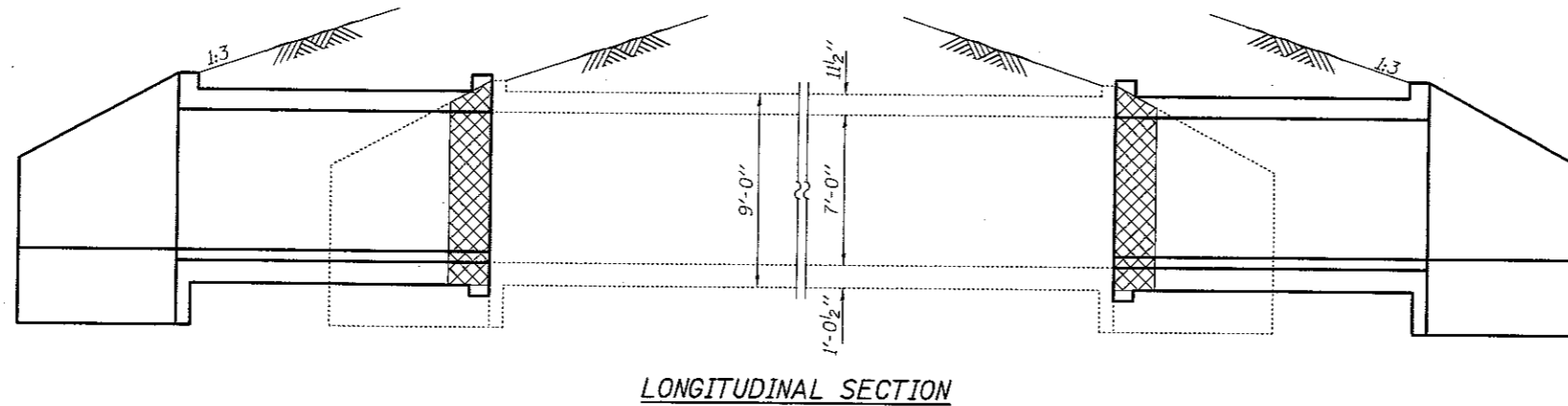
SHEET NO. 14 OF 16 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	(25-1,2R)	EFFINGHAM	496	190
CONTRACT NO.			74664	
ILLINOIS FED. AID PROJECT				

GENERAL NOTES

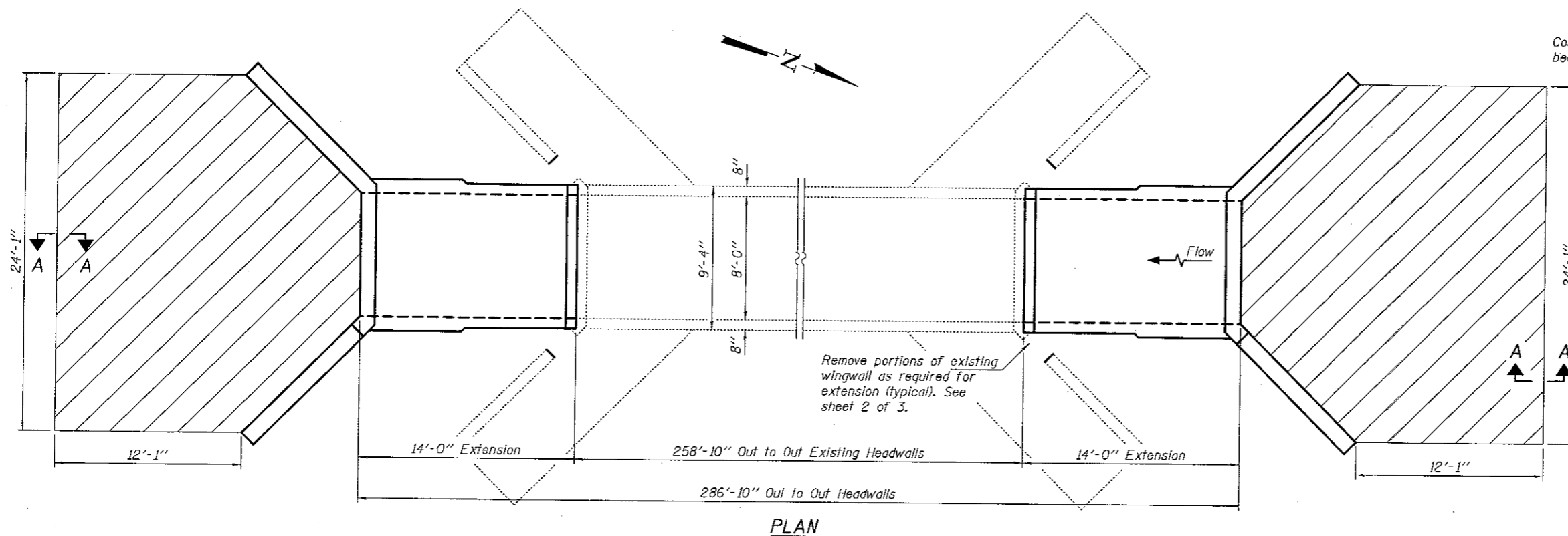
Plan dimensions and details relative to existing plans are subject to nominal construction variations. The Contractor shall field verify existing dimensions and details affecting new construction and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall 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.

Expansion bolts shall consist of approved expansion anchors, providing minimum certified proof load = 4,080 lbs., and 3/4"φ x 12" hooked bolts. All exposed edges shall have standard 3/4" chamfers.



SECTION A-A

Cost of any excavation necessary for placement of riprap or bedding material shall be included with Stone Riprap, Class A5



The contractor shall excavate to the specified depth for placement of the Rock Fill Replacement under the culvert extensions and the wingwall footings (if present) and allow the District Inspectors to test and verify that the foundation soils have a minimum Q_u of at least 2.5 tsf. If the required soil strength is not present, the Contract shall excavate an additional depth and width as directed by the Engineer to locate suitable strength material. The excavated area shall then be backfilled to the proper elevations using Rockfill capped with 6" of Coarse Aggregate. Cost of excavation and backfill material will be paid for per Art. 109.04 (b) of the Standard Specifications

- Limits of Stone Riprap, Class A5

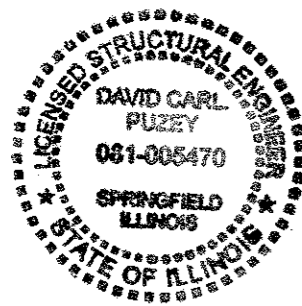
TOTAL BILL OF MATERIAL

ITEM	UNIT	TOTAL
Concrete Removal	Cu. Yd.	2.2
Concrete Box Culverts	Cu. Yd.	48.6
Reinforcement Bars	Pound	9730
Expansion Bolts 3/4"	Each	44
Structure Excavation	Cu. Yd.	48.7
Stone Riprap, Class A5	Sq. Yd.	92.9
Filter Fabric	Sq. Yd.	92.9
Rock-Fill Replacement	Ton	28

DESIGN STRESSES

FIELD UNITS

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



EXPIRES 11-30-2018

DESIGNED: *[Signature]*
 CHECKED: *[Signature]*
 DRAWN: *[Signature]*
 CHECKED: *[Signature]*

PASSED

[Signature]
 ENGINEER OF BRIDGES AND STRUCTURES

DATE: MAY 12, 2017

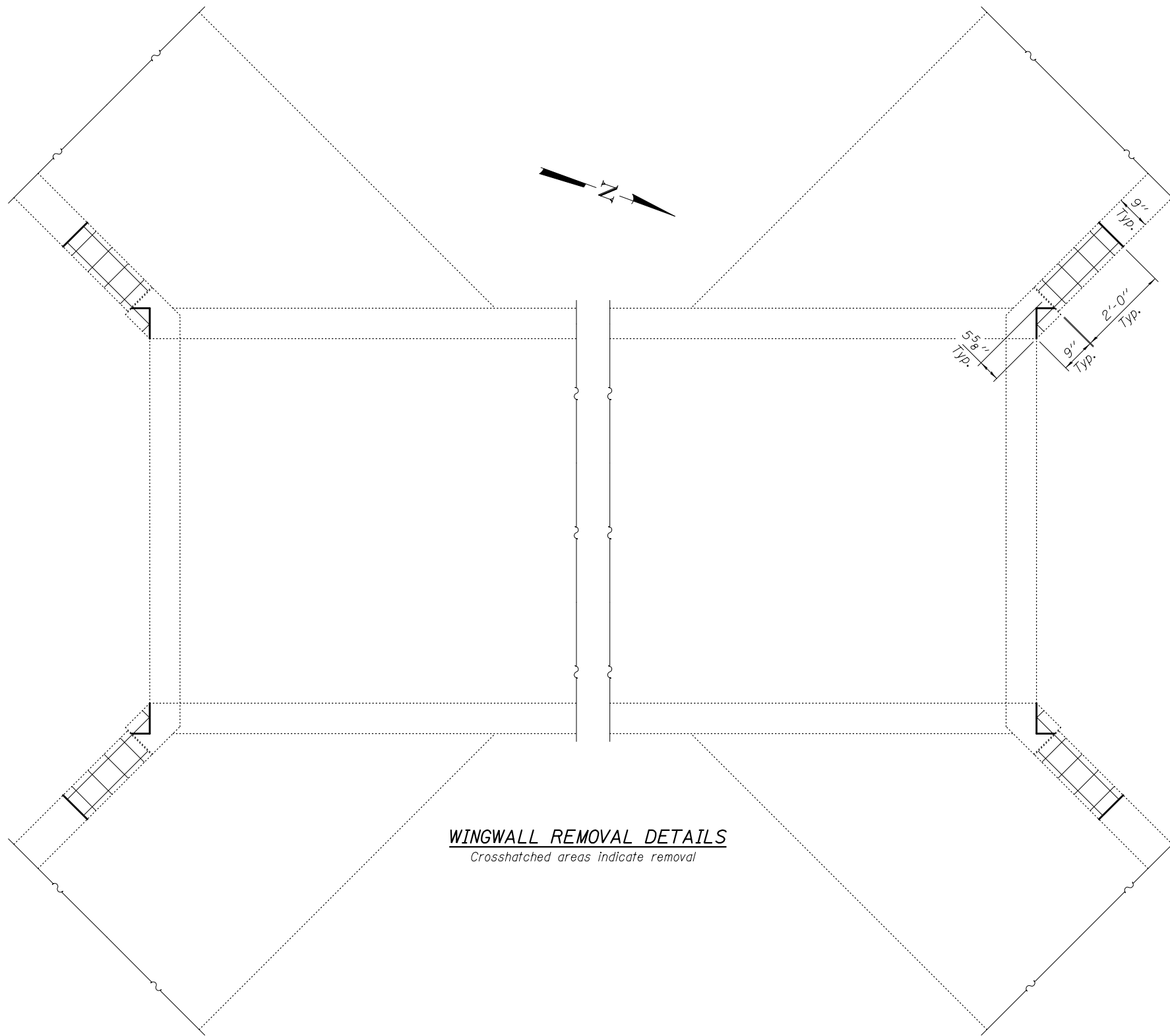
REVISED: _____
 REVISED: _____

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

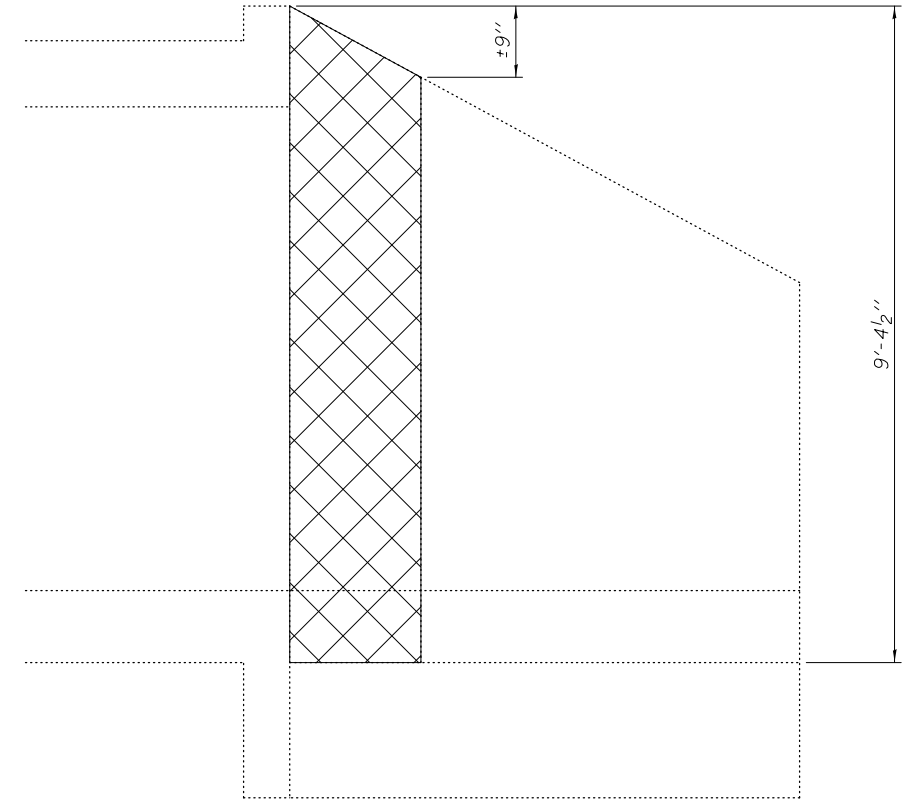
PLAN AND ELEVATION
 FAI 70
 SN 025-8690

SHEET NO. 1 OF 3 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
TO	125-1,21R	EFFINGHAM	424	191
CONTRACT NO. 74664			ILLINOIS FED. AID PROJECT	




WINGWALL REMOVAL DETAILS
 Crosshatched areas indicate removal



ELEVATION

DESIGNED *SMR*
 CHECKED *JSB*
 DRAWN *baliva*
 CHECKED *SMR JSB*

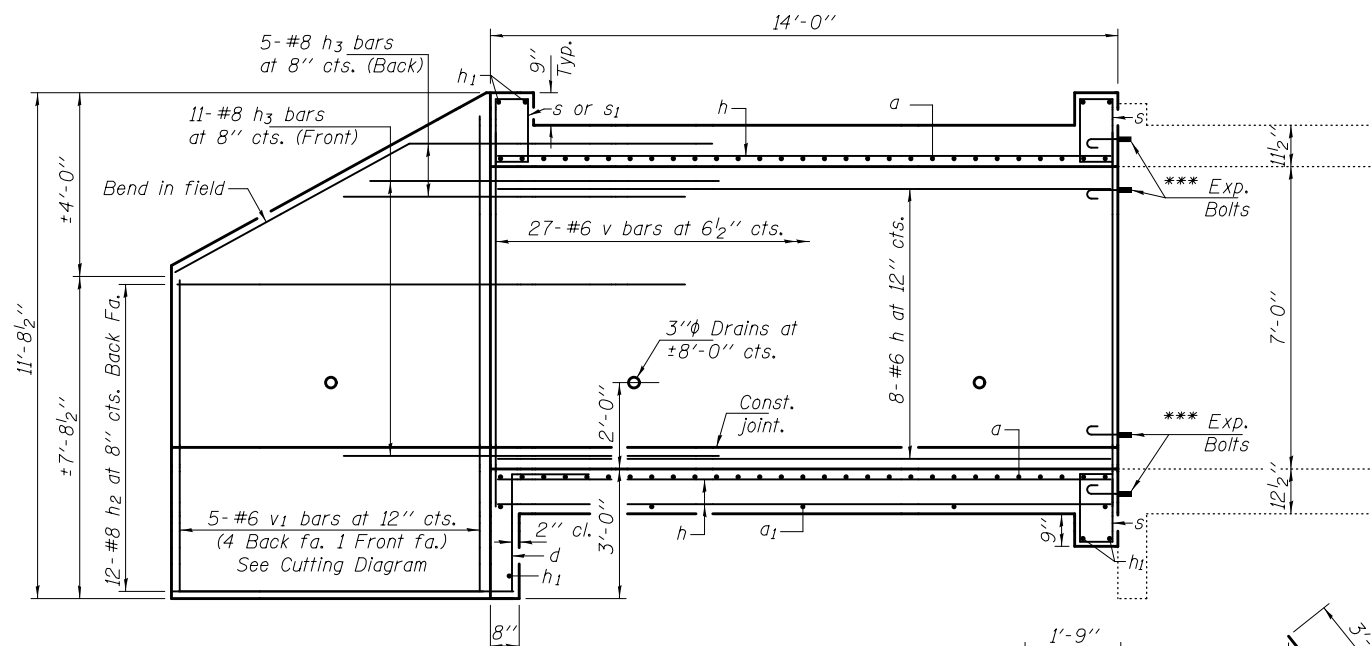
PASSED

 ENGINEER OF BRIDGES AND STRUCTURES

DATE MAY 12, 2017
 REVISED
 REVISED

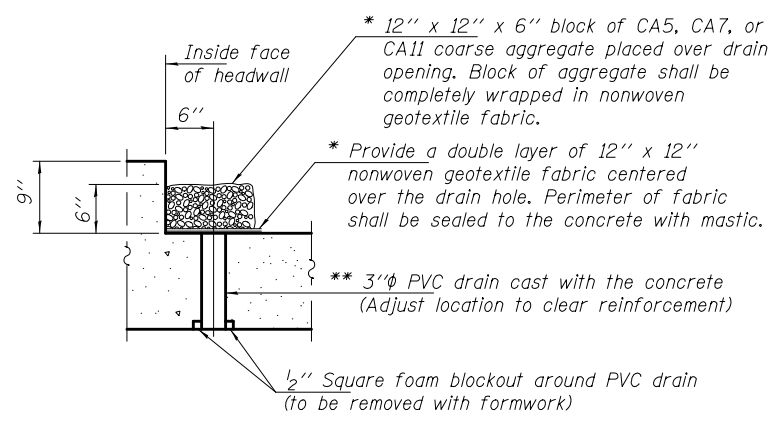
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

REMOVAL DETAILS
SN 025-8690
 SHEET NO. 2 OF 3 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	125-1,2/R	EFFINGHAM	424	192
CONTRACT NO. 74664			ILLINOIS FED. AID PROJECT	



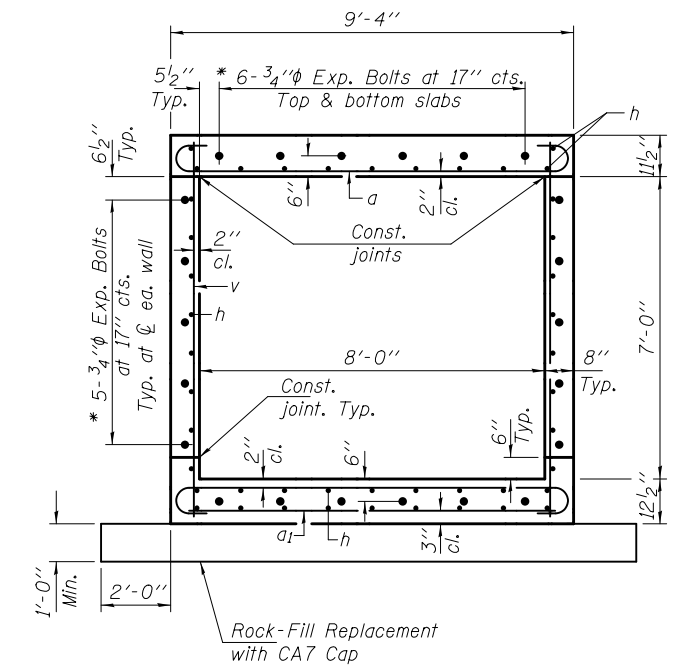
ELEVATION



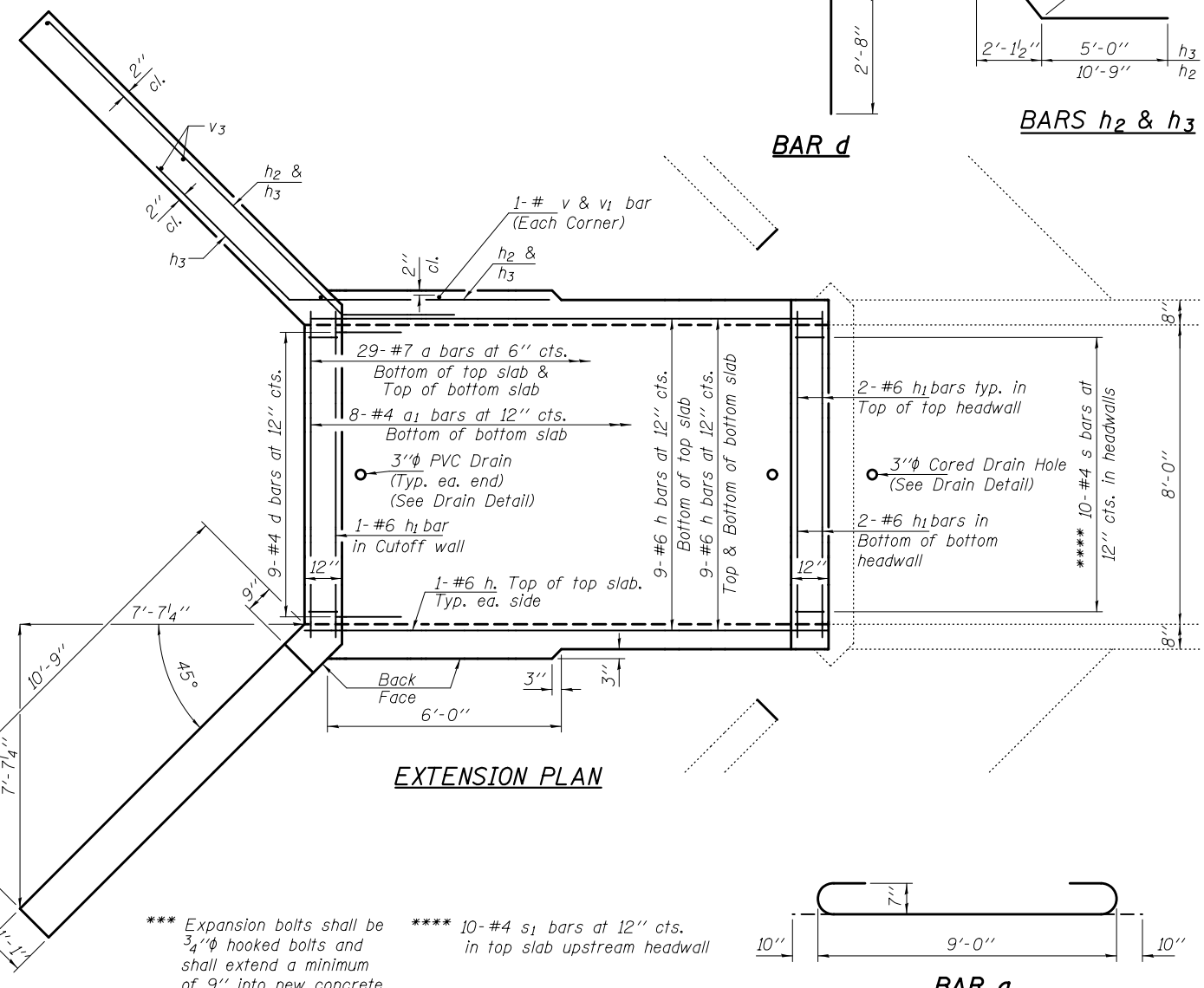
DRAIN DETAIL

(All costs associated with furnishing and constructing the above drain detail will not be measured for payment but shall be included in the contract unit price for the associated work.)

* Nonwoven geotextile fabric shall conform to the requirements of Article 1080.01 of the Standard Specifications. The minimum weight of the fabric shall be 6 ounces per square yard.
 ** 3" φ Cored drain hole in existing culvert. Cost included with Concrete Box Culverts.



SECTION THRU BARREL



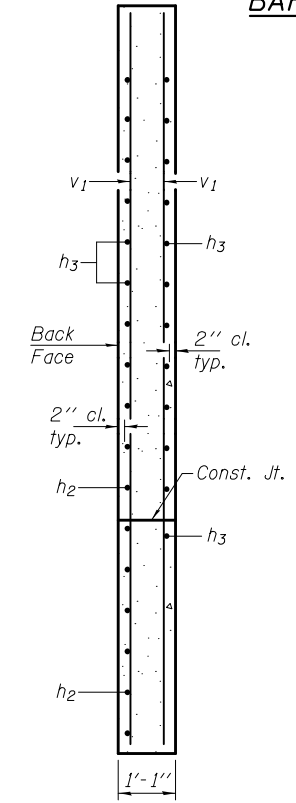
EXTENSION PLAN

BARS h₂ & h₃

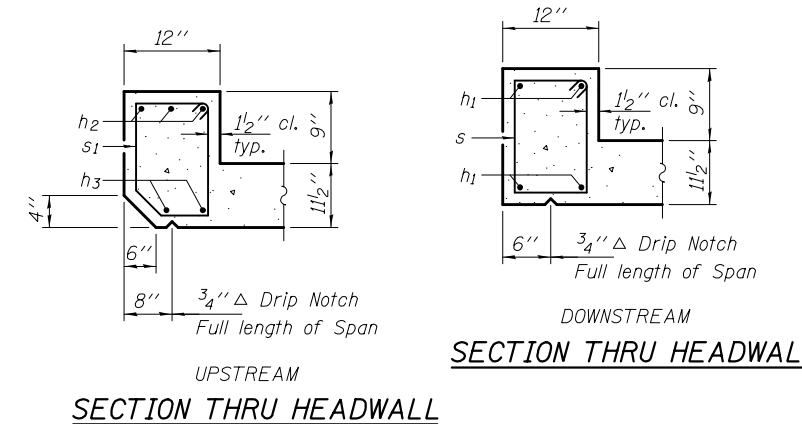
BAR d

BAR s

BAR s₁



SECTION THRU WING



SECTION THRU HEADWALL

BILL OF MATERIAL

Bar	No.	Size	Length	Shape	
a	116	#7	10'-8"	U	
a ₁	16	#4	9'-0"	—	
d	18	#4	4'-5"	L	
h	90	#6	13'-8"	—	
h ₁	14	#6	9'-0"	—	
h ₂	48	#8	13'-9"	—	
h ₃	64	#8	8'-0"	—	
s	50	#4	5'-2"	□	
s ₁	10	#4	4'-10 1/2"	□	
v	108	#6	8'-8"	—	
v ₁	10	#6	18'-7"	—	
Concrete Removal				Cu. Yd.	2.2
Expansion Bolts 3/4"				Each	44
Reinforcement Bars				Lbs.	9730
Concrete Box Culverts				Cu. Yd.	48.6

FIELD CUTTING DIAGRAM

Order v₁ bars full length. Cut to fit as shown and use remainder of bars in opposite wingwall.

DESIGNED SMR
 CHECKED JSB
 DRAWN baliva
 CHECKED SMR JSB

PASSED
 DATE MAY 12, 2017
 ENGINEER OF BRIDGES AND STRUCTURES

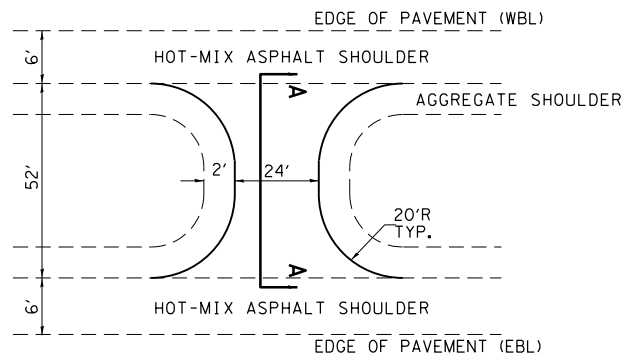
REVISOR
 REVISOR

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

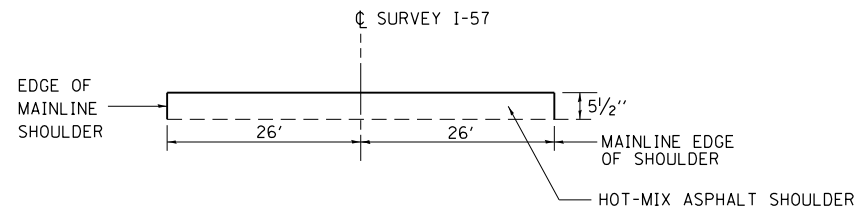
CULVERT EXTENSION DETAILS
 SN 025-8690

SHEET NO. 3 OF 3 SHEETS

F.A.I. RTE. SECTION COUNTY TOTAL SHEETS SHEET NO.
 70 125-1,21R EFFINGHAM 424 193
 CONTRACT NO. 74664
 ILLINOIS FED. AID PROJECT

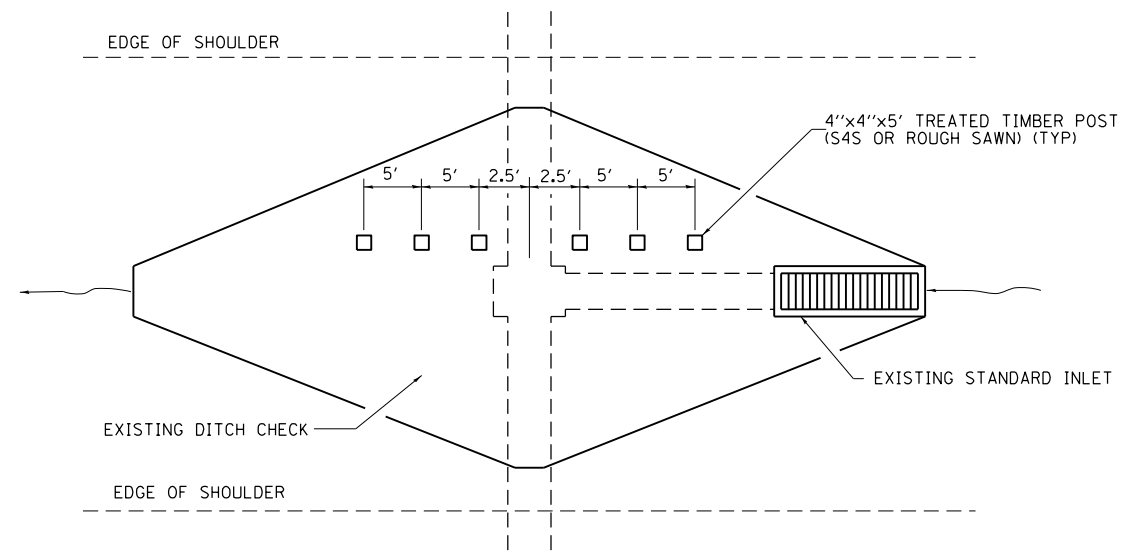


DETAIL OF MEDIAN CROSSOVER

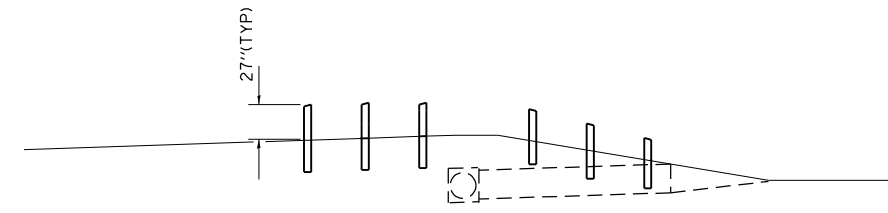


SECTION A-A

STATION 1590+53
 STATION 1725+72
 STATION 1843+13
 STATION 1977+57

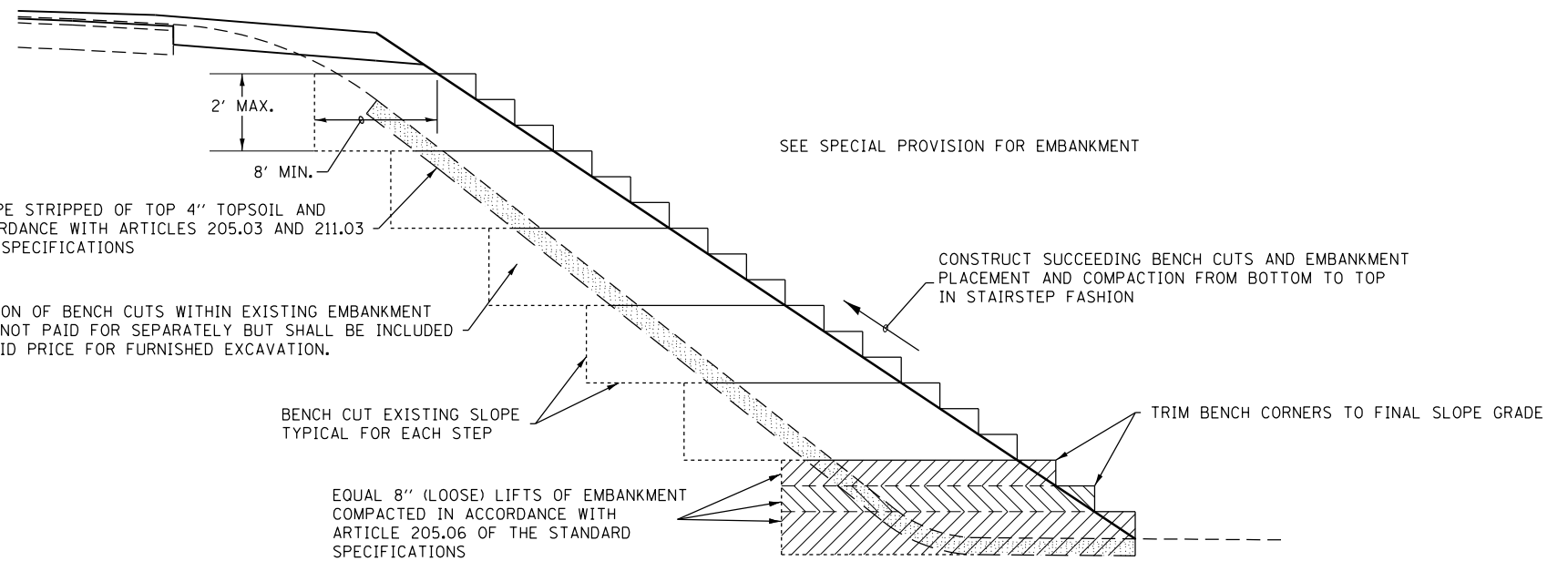


PLAN VIEW



ELEVATION VIEW

DETAIL OF GUARD POST PLACEMENT



TYPICAL BENCHING FOR EMBANKMENTS DETAIL

(NOT TO SCALE)

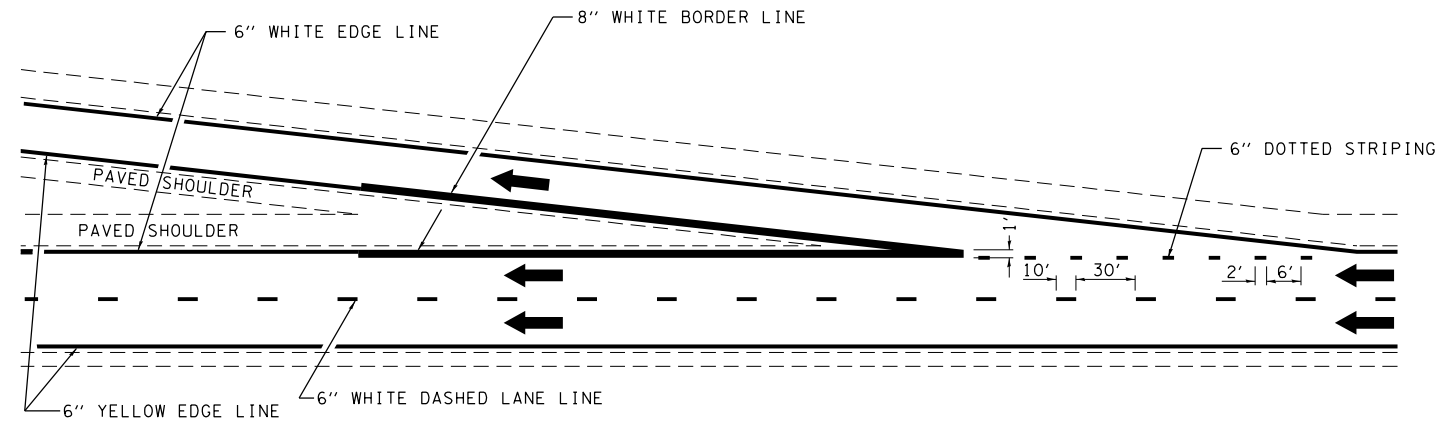
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Default	PLOT SCALE = 100.0000' / 1in.	CHECKED -	REVISED -
	PLOT DATE = 8/25/2017	DATE -	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

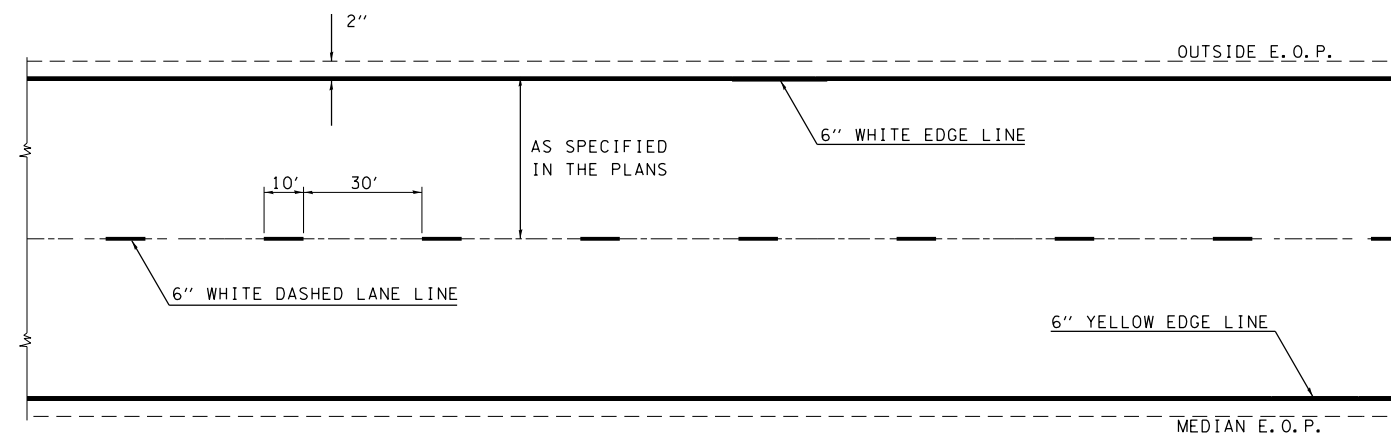
DETAILS

SCALE: SHEET OF SHEETS STA. TO STA.

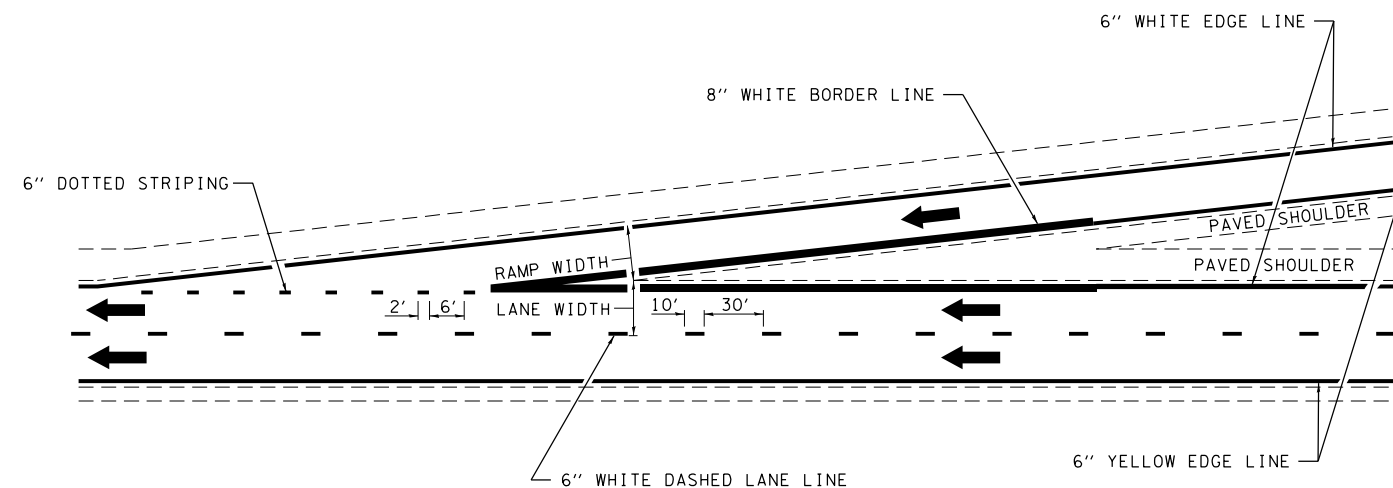
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	(25-1,2)R	EFFINGHAM	424	194
CONTRACT NO. 74664			ILLINOIS FED. AID PROJECT	



TYPICAL EXIT RAMP MARKING



TYPICAL CENTERLINE & EDGELINE MARKINGS



TYPICAL ENTRANCE RAMP MARKING

NOT TO SCALE

FILE NAME =	USER NAME = steffenmk	DESIGNED -	REVISED -
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	PLOT DATE = 8/25/2017	DATE -	REVISED -

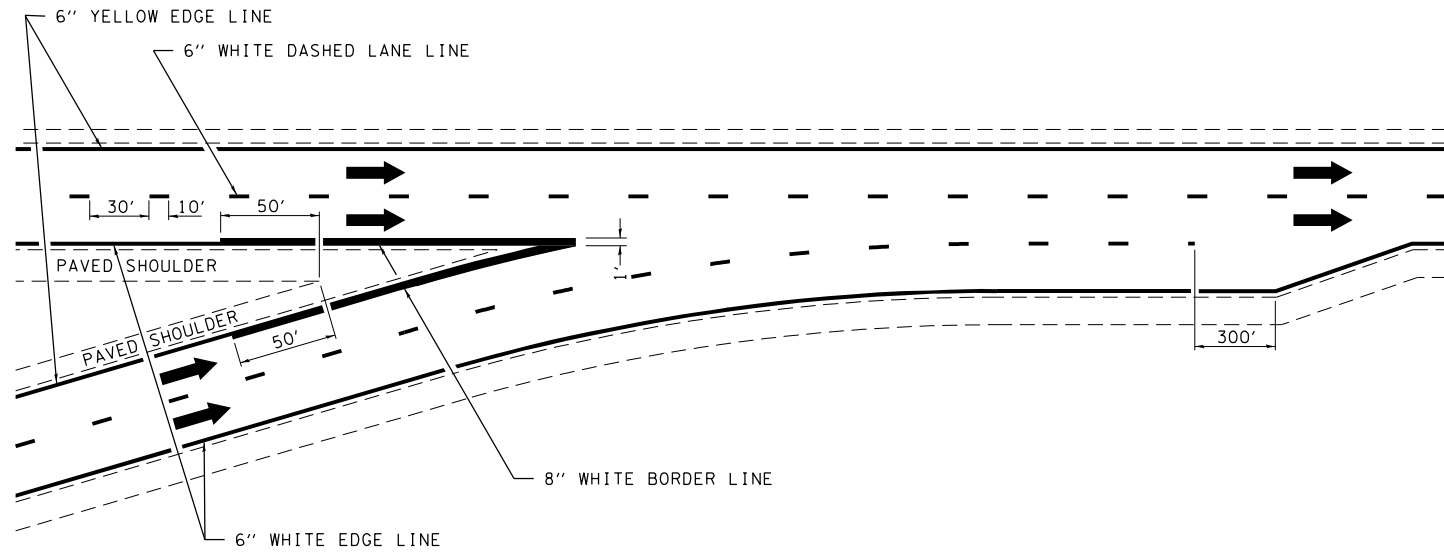
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING DETAILS

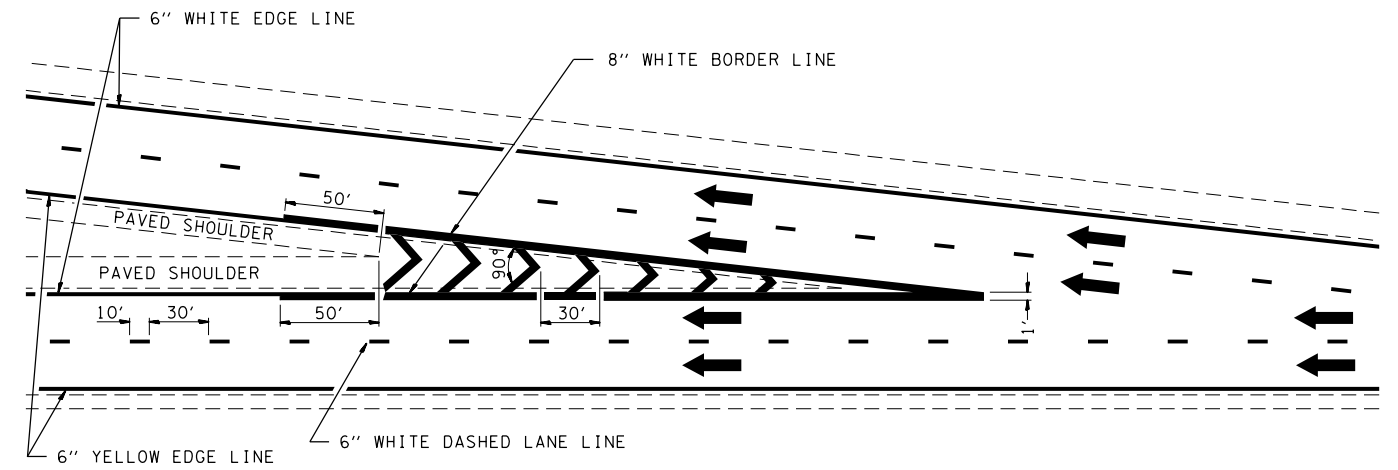
SCALE: SHEET OF SHEETS STA. TO STA.

DISTRICT 7 DETAIL NO. 7800002

F.A.I. RE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	(25-1,2)R	EFFINGHAM	424	195
CONTRACT NO. 74664			ILLINOIS FED. AID PROJECT	

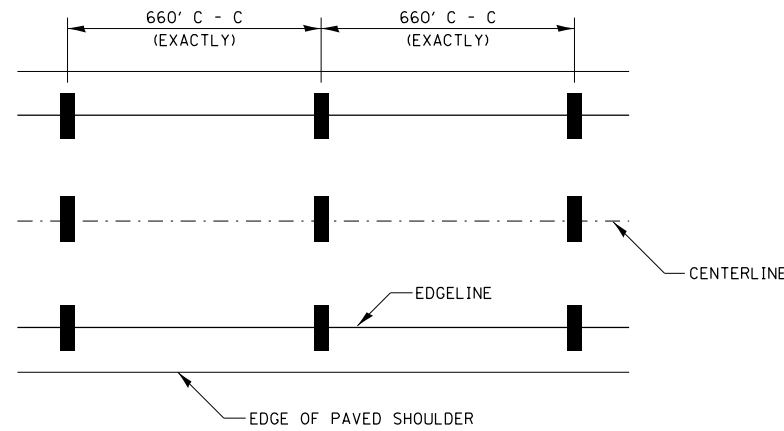


TYPICAL CONVERGENCE MARKING

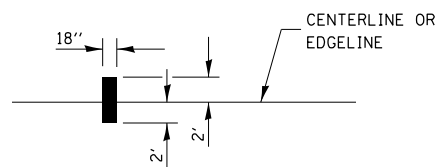


TYPICAL DIVERGENCE MARKING

AERIAL SPEED CHECK ZONES



IT WILL BE NECESSARY TO HAVE A REPRESENTATIVE OF THE STATE POLICE PRESENT SO THAT THE ACCURACY OF MEASUREMENT CAN BE ATTESTED TO IN COURT.



NOT TO SCALE

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

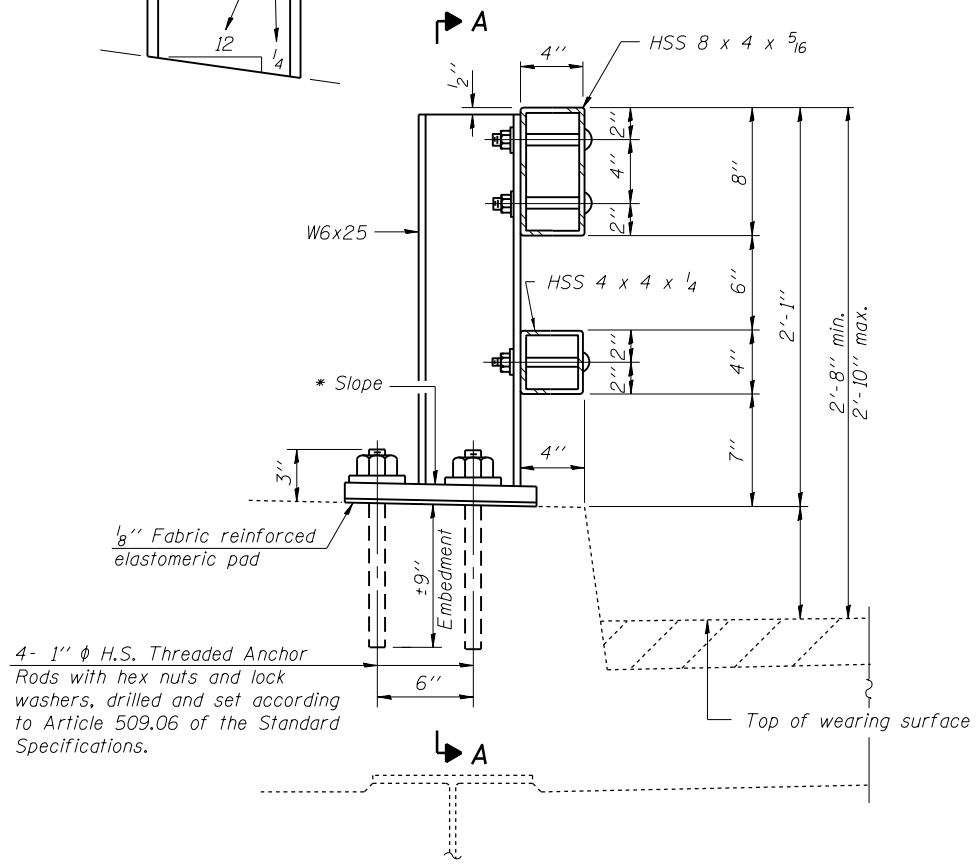
PAVEMENT MARKING DETAILS

SCALE: SHEET OF SHEETS STA. TO STA.

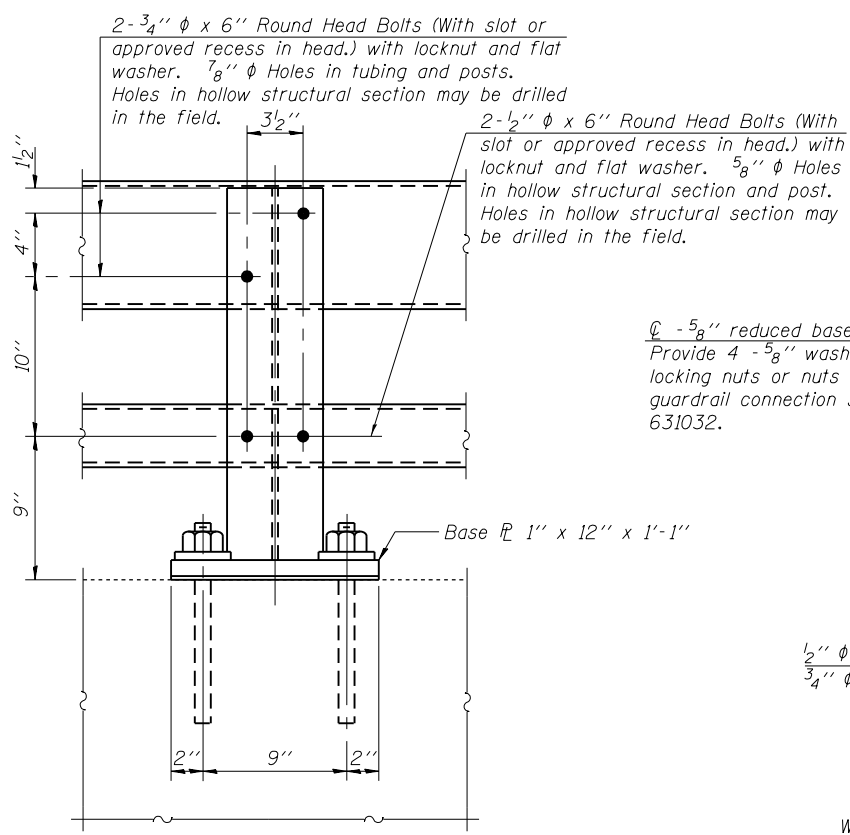
DISTRICT 7 DETAIL NO. 7800002

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	(25-1,2)R	EFFINGHAM	424	196
CONTRACT NO. 74664			ILLINOIS FED. AID PROJECT	

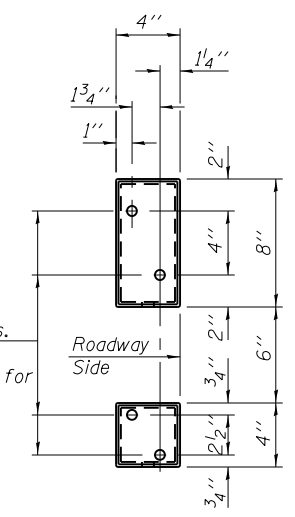
* Cut bottom end of post to curb slope.



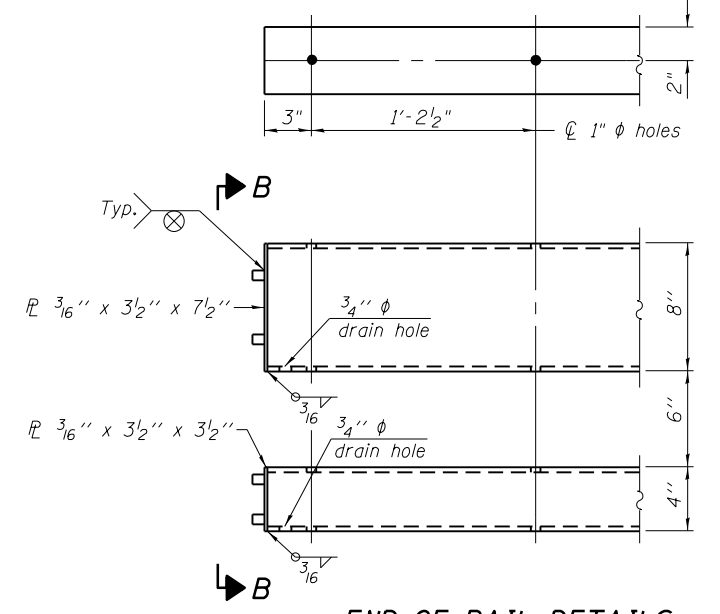
SECTION AT RAIL POST



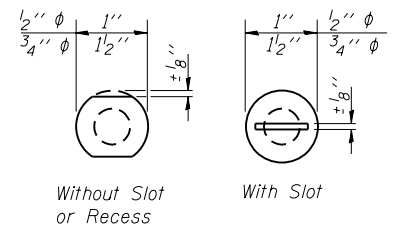
SECTION A-A



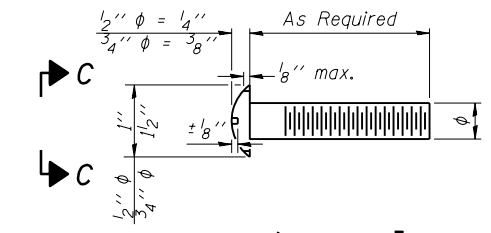
VIEW B-B



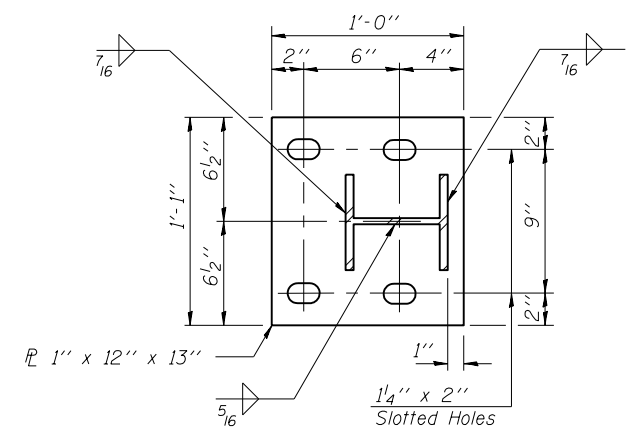
END OF RAIL DETAILS



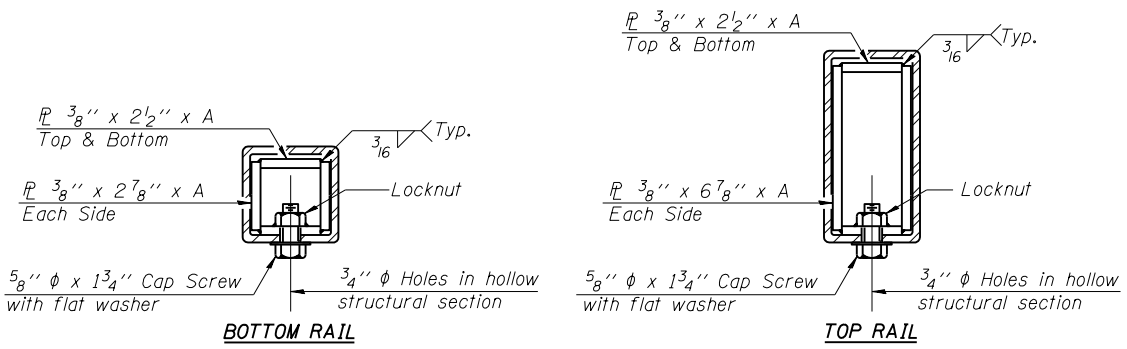
VIEW C-C



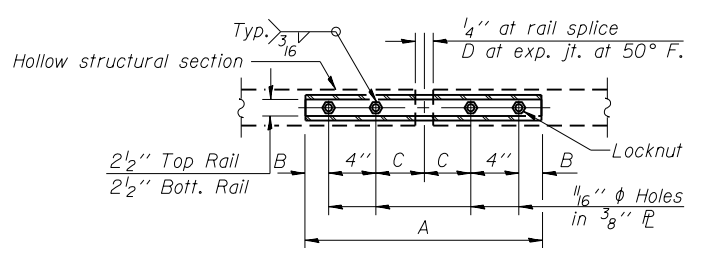
DETAIL OF 1/2" & 3/4" ROUND HEAD BOLTS



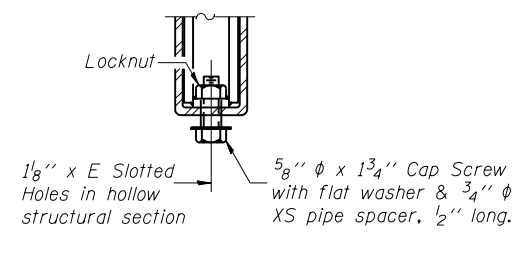
BASE PLATE DETAIL



SECTIONS AT RAIL SPLICE



PLAN-BOTT. SPLICE TYPICAL



RAIL SPLICE CONNECTION AT EXPANSION JT.

Notes:
 All field drilled holes shall be coated with an approved zinc rich paint before erection.
 Posts shall not be located closer than 1'-3" to an existing bridge expansion joint or end of bridge.
 Steel Bridge Rail expansion joint shall be provided between any two (2) posts which span a bridge expansion joint. Bolts located at expansion joint shall be provided with locknuts and shall be tightened only to a point that will allow railing movement.
 Provide one 1/8" and two 1/16" steel shims for 25% of the posts. Shims shall be similar to base plates in size and holes.
 All steel rail elements shall be galvanized according to Article 509.05 of the Standard Specifications.

SPLICE DIMENSIONS

T	D	A	B	C	E
≤4"	2 1/2"	1'-8"	2"	4"	2 1/2"
>4" ≤6 1/2"	3 3/4"	2'-0"	2 1/2"	5 1/2"	3 1/2"
>6 1/2" ≤9"	5"	2'-4"	3 1/2"	6 1/2"	9"
>9" ≤13"	7"	2'-10"	4 1/2"	8 1/2"	11"
Rail Splice	1/4"	1'-8"	2"	4"	—

T = Total movement at expansion joint as shown on the design plans.

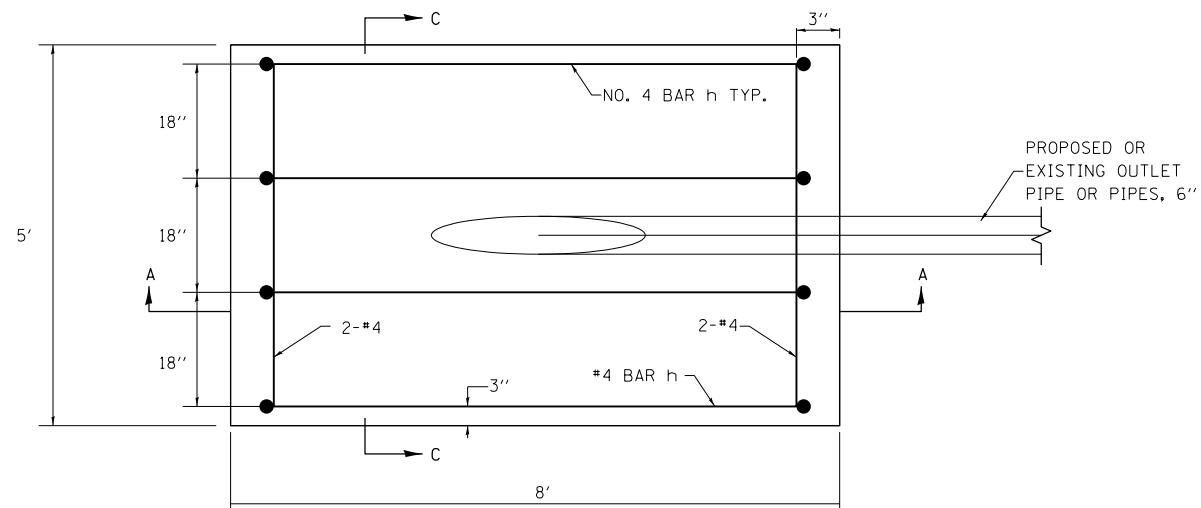
BILL OF MATERIAL

Item	Struct.#	Unit	Quantity
Steel Railing, Type 2399	025-0057	Foot	462
Steel Railing, Type 2399	025-0058	Foot	476
Steel Railing, Type 2399	025-0059	Foot	474
Steel Railing, Type 2399	025-0045	Foot	462

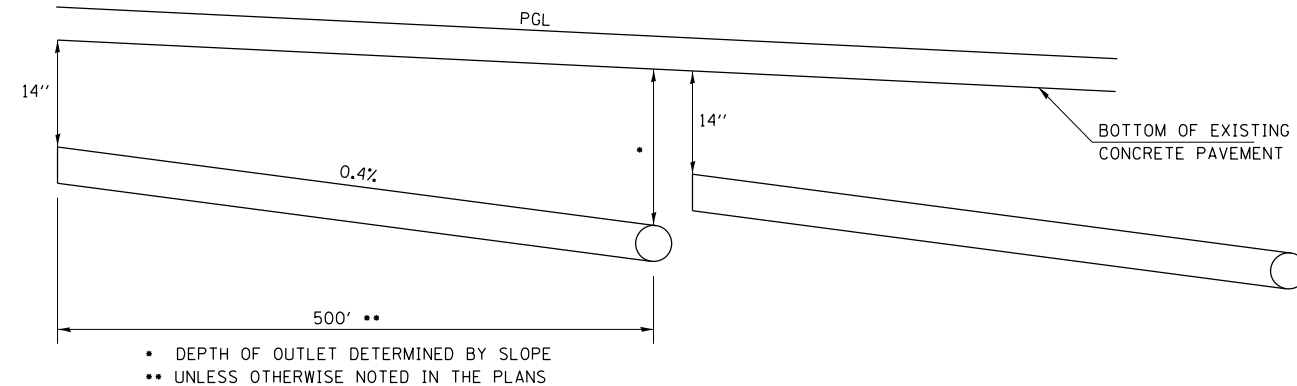
R-31

7-1-10

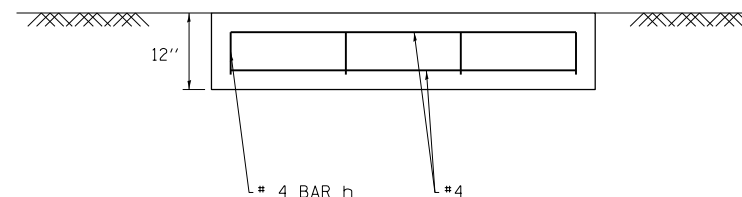
(6'-3" Maximum Post Spacing)



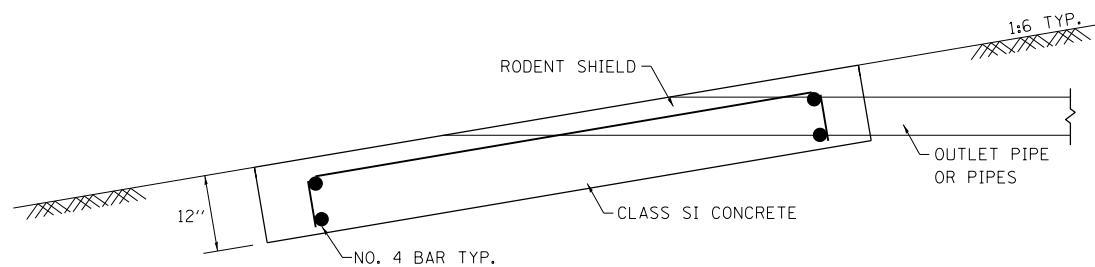
PLAN VIEW



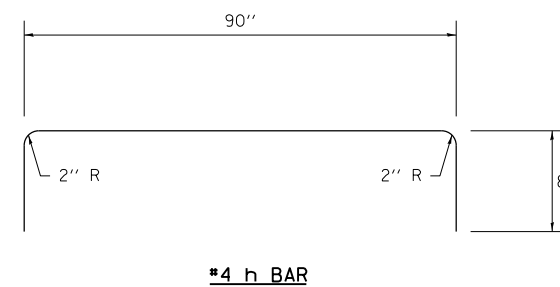
PIPE UNDERDRAIN DETAIL
(USE WHEN PGL IS LESS THAN 0.4%)



SECTION C-C



SECTION A-A



#4 h BAR

NOTES

- SEE STANDARD 601101 FOR DETAILS OF RODENT SHIELDS.
- THE OUTLET PIPE OR PIPES SHALL BE LOCATED AS CLOSE AS POSSIBLE TO THE CENTER OF THE OUTLET PROTECTOR.
- THE LAST 10 FEET OF OUTLET PIPE SHALL BE SCHEDULE 40 PVC.
- REINFORCEMENT BARS MAY BE CUT OR RELOCATED TO ACCOMMODATE PIPE.
- CUT OUTLET PIPE ON A BEVEL TO MATCH FINISHED SURFACE OF SURROUNDING PCC.
- SEEDING CLASS 2 SHALL BE CONSIDERED INCLUDED IN THE COST OF THE PAY ITEMS.

APPROXIMATE OUTLET PROTECTOR QUANTITIES FOR EACH OUTLET PROTECTOR	
CONCRETE, CLASS SI	REINFORCING STEEL
CU YD 1.5	LB 35.6

UNDERDRAIN OUTLET PROTECTOR DETAIL

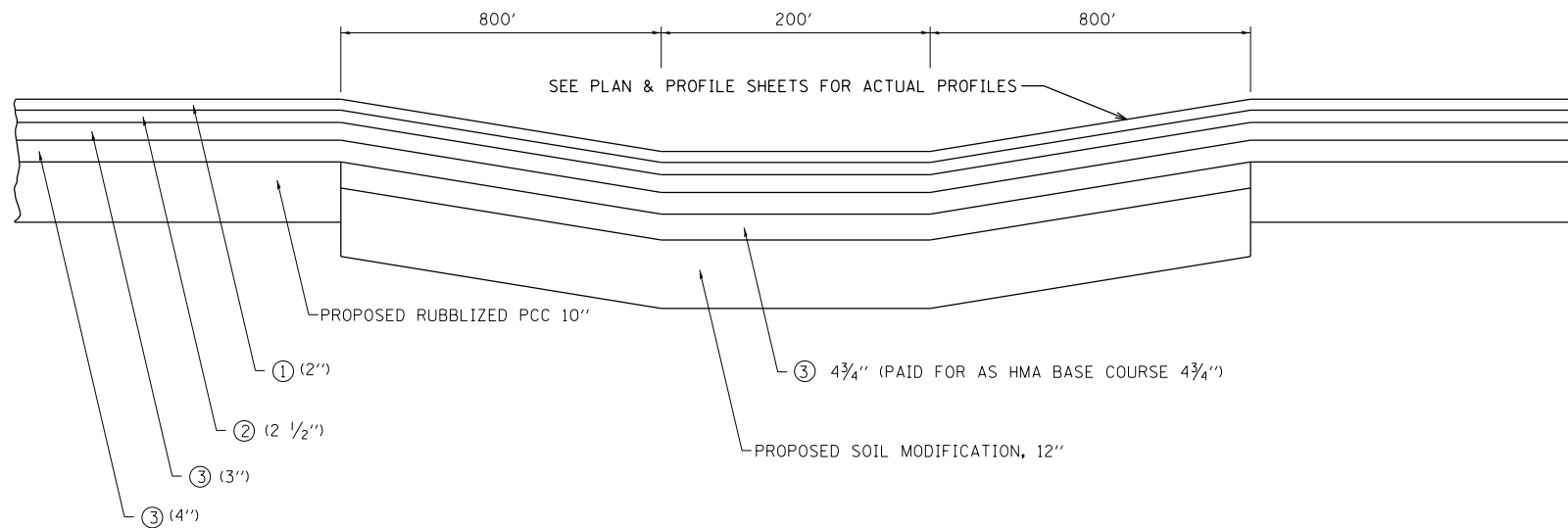
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Default	PLOT DATE = 8/25/2017	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

OUTLET PROTECTOR DETAILS

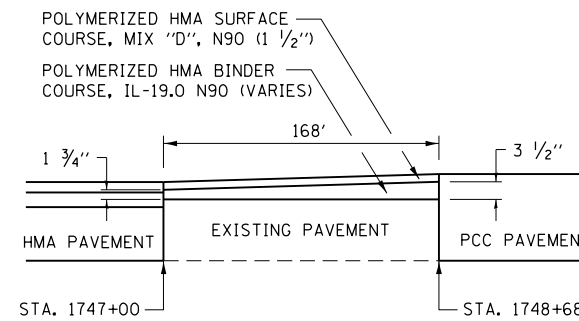
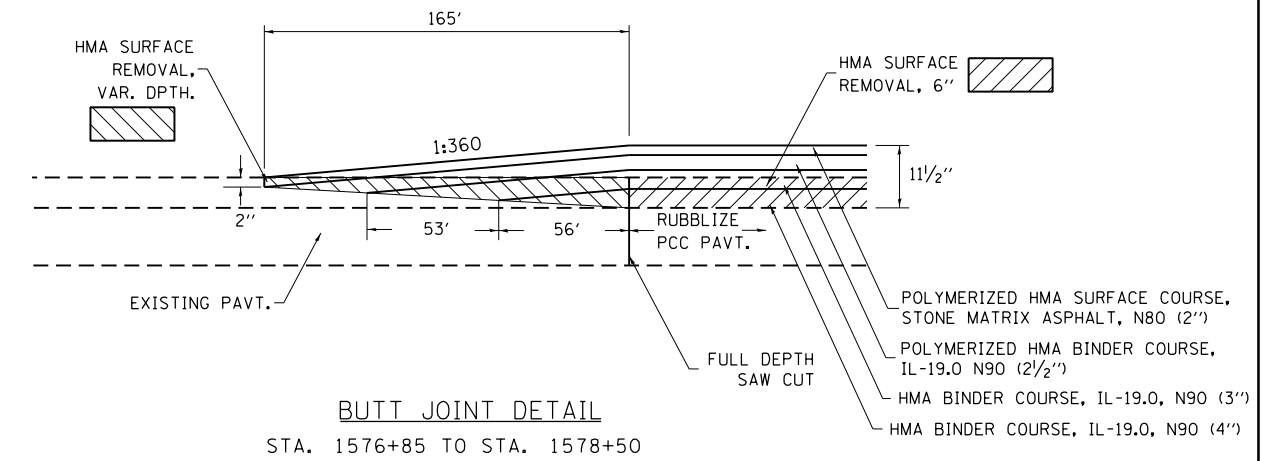
SCALE: SHEET OF SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	(25-1,2)R	EFFINGHAM	424	198
CONTRACT NO. 74664			ILLINOIS FED. AID PROJECT	

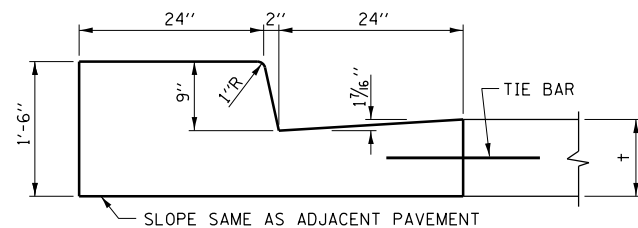
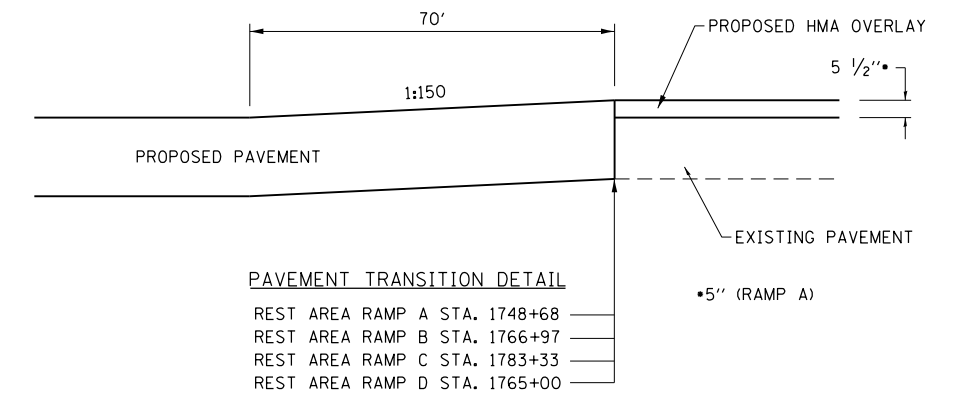


STA. 1611+48 TO STA. 1629+48 (EB)
 STA. 1611+82 TO STA. 1629+82 (WB)
 STA. 1731B+69.9 TO STA. 1749+90 (EB)
 STA. 1732+30 TO STA. 1750+30 (WB)
 STA. 1818+67 TO STA. 1836+67 (EB)
 STA. 1819+05 TO STA. 1837+05 (WB)
 STA. 1934+52 TO STA. 1952+52 (EB)
 STA. 1934+86 TO STA. 1952+86 (WB)

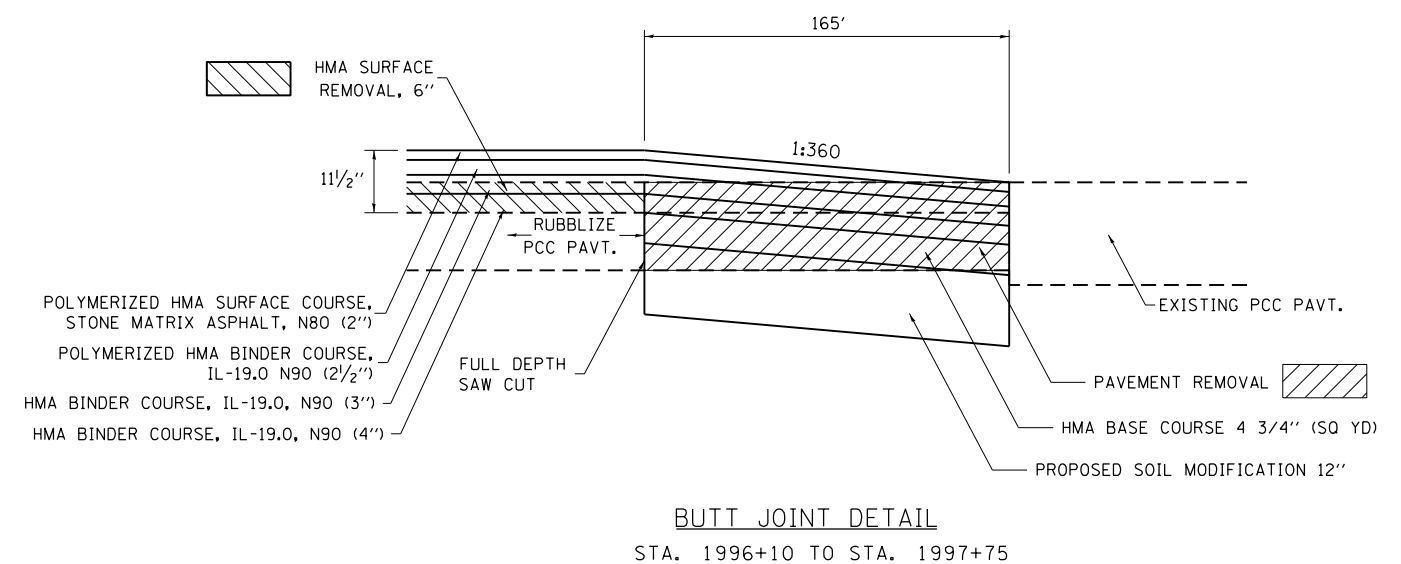
- ① POLYMERIZED HMA SURFACE COURSE, STONE MATRIX ASPHALT, N80
- ② POLYMERIZED HMA BINDER COURSE, IL-19.0, N90
- ③ HMA BINDER COURSE, IL-19.0, N90



PAVEMENT TRANSITION DETAIL
 REST AREA RAMP A STA. 1747+00 TO 1748+68



COMBINATION CONCRETE CURB AND GUTTER, TYPE B9.24 (SPECIAL) DETAIL



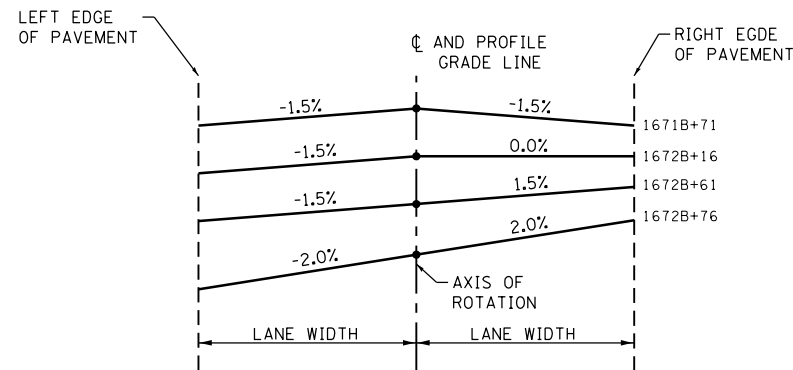
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Default	PLOT DATE = 8/25/2017	DATE -	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

PAVING AND CURB DETAILS

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	(25-1,2)R	EFFINGHAM	424	199
CONTRACT NO. 74664			ILLINOIS FED. AID PROJECT	

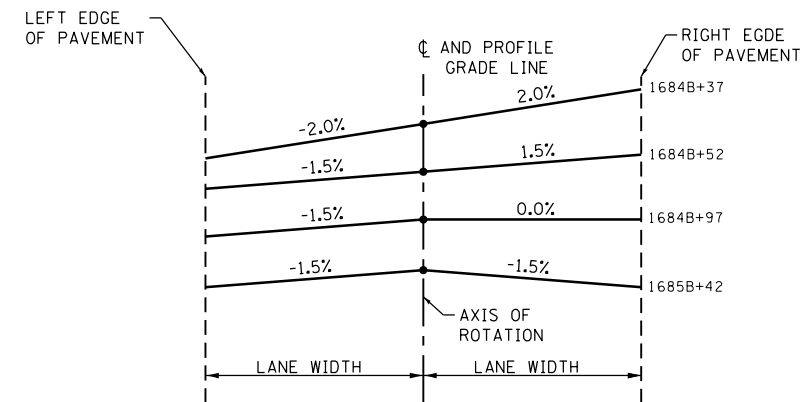


TRANSITION TABLE
FOR TRANSITION
DETAIL 1

Station	LEFT Cross Slope (%)	RIGHT Cross Slope (%)
1671B+71	-1.50	-1.50
1671B+86	-1.50	-1.00
1672B+01	-1.50	-0.50
1672B+16	-1.50	0.00
1672B+31	-1.50	0.50
1672B+46	-1.50	1.00
1672B+61	-1.50	1.50
1672B+76	-2.00	2.00

TRANSITION DETAIL 1
SEE PLAN AND PROFILE SHEETS FOR INDIVIDUAL
CURVE DATA AND SUPERELEVATION DETAILS

CURVE EBL2 - WEST END

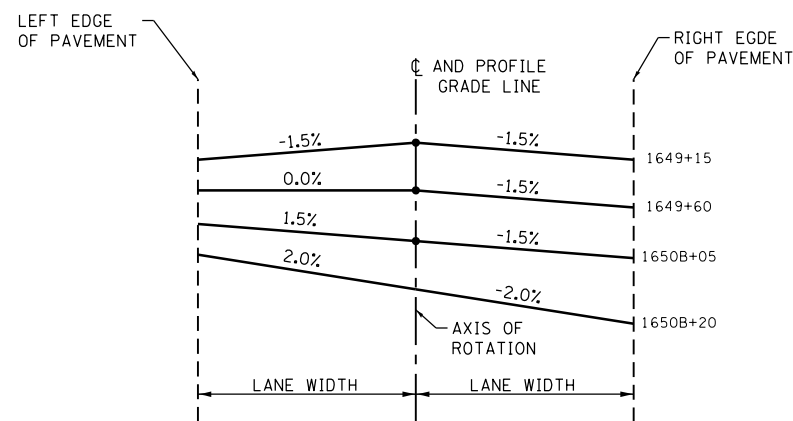


TRANSITION TABLE
FOR TRANSITION
DETAIL 3

Station	LEFT Cross Slope (%)	RIGHT Cross Slope (%)
1684B+37	-2.00	2.00
1684B+52	-1.50	1.50
1684B+67	-1.50	1.00
1684B+82	-1.50	0.50
1684B+97	-1.50	0.00
1685B+12	-1.50	-0.50
1685B+27	-1.50	-1.00
1685B+42	-1.50	-1.50

TRANSITION DETAIL 3
SEE PLAN AND PROFILE SHEETS FOR INDIVIDUAL
CURVE DATA AND SUPERELEVATION DETAILS

CURVE EBL2 - EAST END

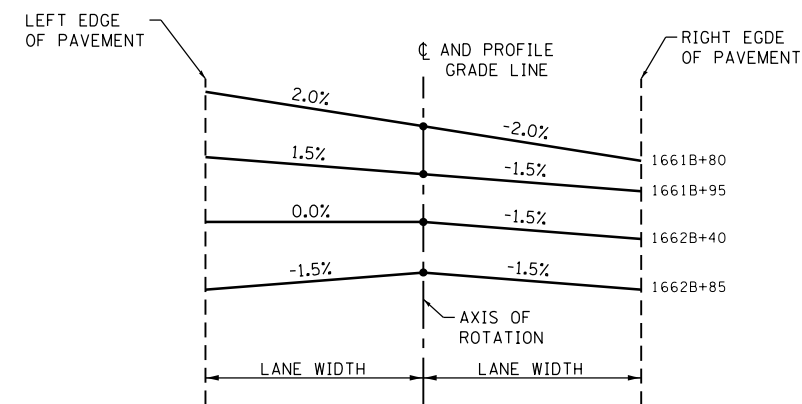


TRANSITION TABLE
FOR TRANSITION
DETAIL 2

Station	LEFT Cross Slope (%)	RIGHT Cross Slope (%)
1649+15	-1.50	-1.50
1649+30	-1.00	-1.50
1649+45	-0.50	-1.50
1649+60	0.00	-1.50
1649+75	0.50	-1.50
1649+90	1.00	-1.50
1650B+05	1.50	-1.50
1650B+20	2.00	-2.00

TRANSITION DETAIL 2
SEE PLAN AND PROFILE SHEETS FOR INDIVIDUAL
CURVE DATA AND SUPERELEVATION DETAILS

CURVE EBL1 - WEST END



TRANSITION TABLE
FOR TRANSITION
DETAIL 4

Station	LEFT Cross Slope (%)	RIGHT Cross Slope (%)
1661B+80	2.00	-2.00
1661B+95	1.50	-1.50
1662B+10	1.00	-1.50
1662B+25	0.50	-1.50
1662B+40	0.00	-1.50
1662B+55	-0.50	-1.50
1662B+70	-1.00	-1.50
1662B+85	-1.50	-1.50

TRANSITION DETAIL 4
SEE PLAN AND PROFILE SHEETS FOR INDIVIDUAL
CURVE DATA AND SUPERELEVATION DETAILS

CURVE EBL1 - EAST END