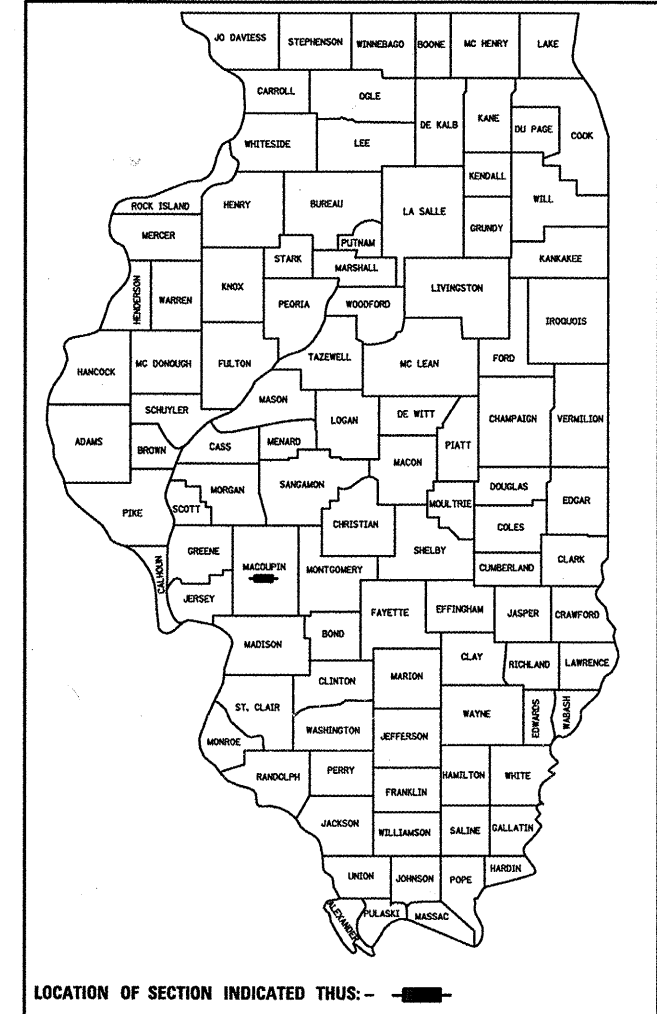


F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
325	114 (B-1)	MACOUPIN	57	1
		ILLINOIS	CONTRACT NO. 72646	

★ 57+3=60

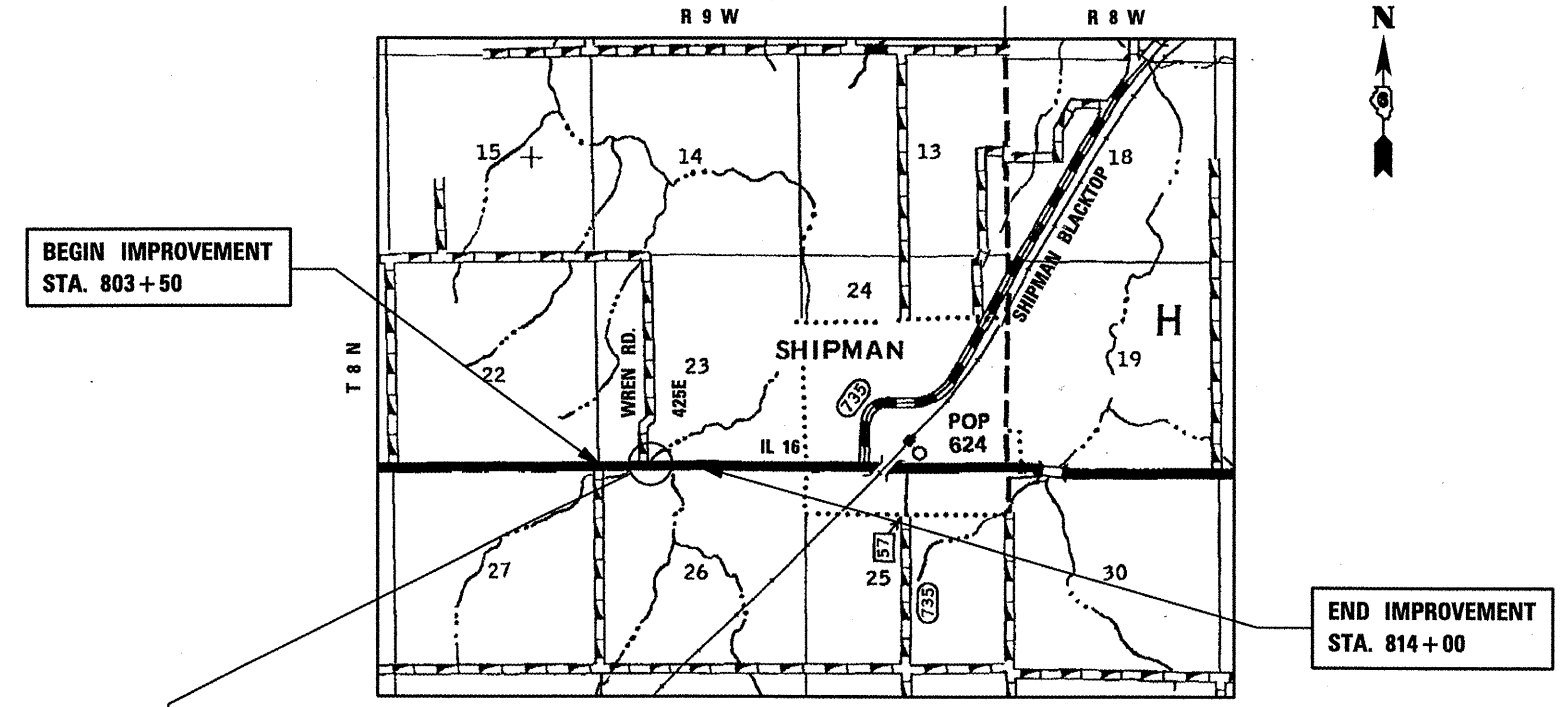
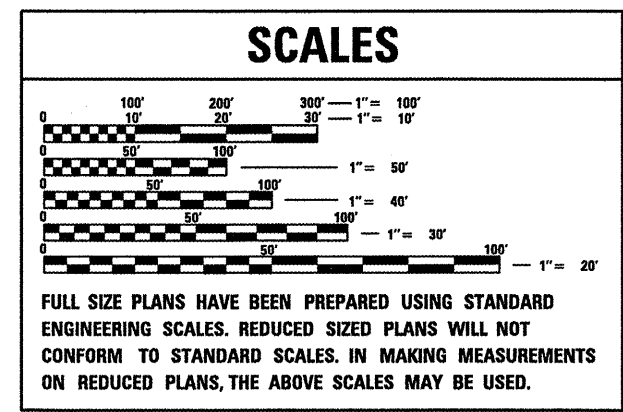
D-96-565-03



STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
**PROPOSED
HIGHWAY PLANS**
F.A.P. ROUTE 325 (IL RTE 16)
SECTION 114 B-1
PROJECT: ACF-0325(052)
STRUCTURE REPLACEMENT
MACOUPIN COUNTY
C-96-507-09

SHEET No.	DESCRIPTION
1	COVER SHEET
2	GENERAL NOTES
3 - 7	SUMMARY OF QUANTITIES
8 - 10	SCHEDULE OF QUANTITIES
11	TYPICAL SECTIONS
12	ALIGNMENT, TIES & BENCHMARKS
13 - 25	MAINTENANCE OF TRAFFIC PLANS
26	WIDTH RESTRICTION SIGNING DETAIL
27 - 30	PLAN AND PROFILE SHEETS
31	INTERSECTION DETAILS
32 - 38	STORM WATER POLLUTION PREVENTION PLANS
39 - 43	CULVERT DETAILS
44 - 55	CROSS SECTIONS - IL 16
56 - 57	CROSS SECTIONS - WREN ROAD

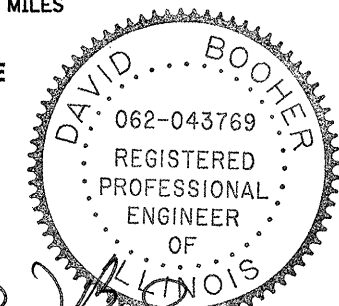
I.D.O.T. STANDARDS		
000001-05	635006-03	701901-01
001001-02	635011-02	704001-06
001006	666001-01	729001-01
280001-05	701001-02	780001-02
482011-03	701201-03	781001-03
542301-02	701306-02	805001-01
606101-04	701321-10	BLR 21-8
630001-08	701326-03	



EX STRUCTURE No. 059-7000
10x10 REINF. CONC. BOX CULVERT
PR STRUCTURE No. 059-7102
STA. 808 + 76.30 CAST-IN-PLACE
10' x 10' CONCRETE BOX CULVERT
123'-0 34" OUT-TO-OUT OF HEADWALLS
43 LT. FORWARD SKEW

APPROXIMATE SCALE: 0 1 2 MILES

GROSS LENGTH OF PROJECT = 1,050 FEET = 0.199 MILE
NET LENGTH OF PROJECT = 1,050 FEET
AVERAGE DAILY TRAFFIC = 3200 (2005)
PV = 2875
SU = 100
MU = 225



DAVID R. BOOHER ILLINOIS P.E. 062-043769 DATE 10-20-09
EXPIRES 11 / 30 / 2009

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

SUBMITTED October 21, 2009
Ref: J. D. Hoff
DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER

December 4, 2009
Charles J. Ingersoll
ENGINEER OF DESIGN AND ENVIRONMENT

December 4, 2009
Christine M. Reed
DIRECTOR OF HIGHWAYS/CHIEF ENGINEER

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IESPRINGFIELD@IE-CONSULTANTS.COM
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CALL **J.U.L.I.E.** (JOINT UTILITY LOCATION INFORMATION FOR EXCAVATORS)
48 Hours (2 working days) Before You Dig.
TOLL FREE: 1 (800) 892-0123

CONTRACT NO. 72646

Rev.

GENERAL NOTES

- 1 ALL ELEVATIONS SHOWN IN THE PLANS ARE U. S. G. S. MEAN SEA LEVEL DATUM.
- 2 ANY REFERENCE TO STANDARDS THROUGHOUT THE PLANS SHALL BE INTERPRETED TO BE THE LATEST STANDARDS OF THE DEPARTMENT AS SHOWN IN THE PLANS.
- 3 THE THICKNESS OF HOT-MIX ASPHALT SHOWN ON THE PLANS IS THE NOMINAL THICKNESS. DEVIATIONS FROM THE NOMINAL THICKNESS WILL BE PERMITTED WHEN SUCH DEVIATIONS OCCUR DUE TO IRREGULARITIES IN THE EXISTING SURFACE OR BASE ON WHICH THE HOT-MIX ASPHALT IS PLACED.
- 4 SEEDING WILL NOT BE PERMITTED AT ANY TIME WHEN THE GROUND IS FROZEN, WET OR IN AN UNTILLABLE CONDITION. AREAS TO BE SEEDED SHALL BE DETERMINED BY THE ENGINEER.
- 5 EXISTING PAVEMENT DAMAGED DUE TO THE CONTRACTOR'S OPERATIONS, AND NOT OTHERWISE NECESSARY TO REPLACE, SHALL BE REPLACED AT THE EXPENSE OF THE CONTRACTOR.
- 6 THE LOCATIONS OF THOSE BURIED AND ABOVE GROUND UTILITIES SHOWN ARE APPROXIMATE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING UTILITY PROPERTY FROM CONSTRUCTION OPERATIONS AS OUTLINE IN ARTICLE 107.26 OF THE STANDARD SPECIFICATIONS. THE J. U. L. I. E. NUMBER IS 800-892-0123. A MINIMUM OF FORTY-EIGHT HOURS ADVANCED NOTICE IS REQUIRED.
- 7 THE EXISTING ROAD SIGNS THAT INTERFERE WITH CONSTRUCTION SHALL BE RELOCATED AS DIRECTED BY THE ENGINEER. AFTER THE CONSTRUCTION IS COMPLETED, THE CONTRACTOR WILL REPLACE THE SIGNS AS DIRECTED BY THE ENGINEER. THIS WORK WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT.
- 8 ABANDONED UNDERGROUND UTILITIES THAT CONFLICT WITH CONSTRUCTION SHALL BE DISPOSED OUTSIDE THE LIMITS OF RIGHT-OF-WAY ACCORDING TO ARTICLE 202.03 OF THE STANDARDS SPECIFICATIONS AND AS DIRECTED BY THE ENGINEER. THIS WORK WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE CONSIDERED INCLUDED IN THE COST OF EARTH EXCAVATION AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.
- 9 WHERE SECTION OR SUBSECTION MONUMENTS ARE ENCOUNTERED THE ENGINEER SHALL BE NOTIFIED BEFORE SUCH MONUMENTS ARE REMOVED. THE CONTRACTOR SHALL PROTECT AND CAREFULLY PRESERVE ALL PROPERTY MARKERS AND MONUMENTS UNTIL THE OWNER AND AUTHORIZED SURVEYOR OR AGENT HAS WITNESSED OR OTHERWISE REFERENCED THEIR LOCATION IF THE ENGINEER DECIDES TO HAVE THE CONTRACTOR RESET THE MONUMENT, THIS WORK WILL BE PAID FOR IN ACCORDANCE WITH ARTICLE 109.04.
- 10 NO PASSING ZONES SHALL BE FIELD VERIFIED BY DIST. 6, TRAFFIC, 14 DAYS PRIOR TO FINAL PAVEMENT MARKINGS.
- 11 THE HMA BASE COURSE WITH A WIDTH OF 6'-0" OR LESS WILL NOT BE PAID FOR AS WIDENING. ITS QUANTITY HAS BEEN INCLUDED IN THE PAY ITEM FOR THE HMA BASE COURSE.
- 12 THE REPLACEMENT OF DAMAGED TEMPORARY PAVEMENT MARKING FOR ANY OF THE TRAFFIC CONTROL STANDARDS WILL NOT BE PAID FOR SEPARATELY. THE REPLACEMENT COST SHALL BE CONSIDERED INCLUDED IN THE COST OF THE TRAFFIC CONTROL STANDARD.

13 THE FOLLOWING APPLICATION RATES WERE USED FOR QUANTITY CALCULATIONS.

HOT-MIX ASPHALT BINDER COURSE,	0.056 TON / SQ YD • IN
HOT-MIX ASPHALT SURFACE COURSE,	0.056 TON / SQ YD • IN
BITUMINOUS MATERIAL (PRIME COAT) (ON BITUMINOUS)	0.00038 TON / SQ YD
BITUMINOUS MATERIAL (PRIME COAT) (ON AGGREGATE)	0.001425 TON / SQ YD
AGGREGATE (PRIME COAT)	0.01 TON / SQ YD
NITROGEN	90 LBS / ACRE
PHOSPHOROUS	90 LBS / ACRE
POTASSIUM	90 LBS / ACRE
MULCH	2 TON / ACRE
AGGREGATE GROUND LIMESTONE	2 TON / ACRE
TEMPORARY EROSION CONTROL SEEDING	100 LB / ACRE
RIPRAP	1.60 TON / CU YD
AGGREGATE SHOULDERS TYPE B	1.89 TON / CU YD

14 THE FOLLOWING MIXTURE REQUIREMENTS ARE APPLICABLE FOR THIS PROJECT.

MIXTURE USE	Surface 40603335	Level Binder 40600625	Base Course 10" 35501324
PG	PG 64-22	PG 64-22	PG 64-22
DESIGN AIR VOIDS	4.0% @ N Design = 50	4.0% @ N Design = 50	4.0% @ N design = 50
MIXTURE COMPOSITION (GRADATION MIXTURE)	IL 9.5 OR 12.5	IL 9.5	IL 19.0
FRICTION AGGREGATE	Mix "C"	N/A	N/A

COMMITMENTS

- THE FIELD/RESIDENT ENGINEER SHALL CONTACT STUDIES & PLANS CONCERNING ANY MAJOR PLAN CHANGES TO MAKE SURE NO PREVIOUS COMMITMENTS (NOT LISTED) WERE MADE AFFECTING THE DESIGN AND ALLOW AN IMPROVED DESIGN FOR FUTURE PROJECTS.

* SWPPP
* LETTER OF UNDERSTANDING W/SHIPMAN TWP.

DISTRICT SIX	
EXAMINED <u>10/18</u> 20 <u>09</u>	<i>[Signature]</i>
OPERATIONS ENGINEER	
EXAMINED <u>October 14</u> 20 <u>09</u>	<i>[Signature]</i>
PROGRAM IMPLEMENTATION ENGINEER	
EXAMINED <u>October 2</u> 20 <u>09</u>	<i>[Signature]</i>
PROGRAM DEVELOPMENT ENGINEER	

FILE NAME = G:\S05081\CAD\5081GNB1.dgn

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PLOT SCALE = 100.0000' / IN.	DRAWN -	REVISED -
PLOT DATE = 10/28/2009	CHECKED -	REVISED -
	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL NOTES

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
325	114 (B-1)	MACOUPIN	57	2
CONTRACT NO. 72646				
ILLINOIS FED. AID PROJECT				

SUMMARY OF QUANTITIES

ILLINOIS DEPARTMENT OF TRANSPORTATION							
SUMMARY OF QUANTITIES							
LOCATION OF WORK				CONSTRUCTION TYPE CODE			
CODE NO.	ITEM	UNIT	<i>80% FED. 20% STATE</i> TOTAL QUANTITY	ROADWAY 1000	STRUCTURE Y007		
20100500	TREE REMOVAL, ACRES	ACRE	<i>3.5</i>	<i>3.5</i>			
20200100	EARTH EXCAVATION	CU YD	<i>5,240</i>	<i>5,240</i>			
20800150	TRENCH BACKFILL	CU YD	54	54			
25000200	SEEDING, CLASS 2	ACRE	1.1	1.1			
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	100	100			
25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	100	100			
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	100	100			
25000700	AGRICULTURAL GROUND LIMESTONE	TON	2.2	2.2			
25100115	MULCH, METHOD 2	ACRE	<i>2.6</i>	<i>2.6</i>			
25100630	EROSION CONTROL BLANKET	SQ YD	601	601			
28000200	EARTH EXCAVATION FOR EROSION CONTROL	CU YD	20	20			
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	400	400			
28000315	AGGREGATE DITCH CHECKS	TON	80	80			
28000400	PERIMETER EROSION BARRIER	FOOT	150	150			
28001000	AGGREGATE (EROSION CONTROL)	TON	59	59			

Rev.

SUMMARY OF QUANTITIES

ILLINOIS DEPARTMENT OF TRANSPORTATION							
SUMMARY OF QUANTITIES							
LOCATION OF WORK				CONSTRUCTION TYPE CODE			
CODE NO.	ITEM	UNIT	<i>80% FED. 20% STATE</i> TOTAL QUANTITY	ROADWAY 1000	STRUCTURE Y007		
28100207	STONE DUMPED RIPRAP, CLASS A4	TON	3,150	3,150			
28200200	FILTER FABRIC	SQ YD	4,430	4,430			
35101400	AGGREGATE BASE COURSE, TYPE B	TON	79	79			
35501324	HOT-MIX ASPHALT BASE COURSE, 10"	SQ YD	<i>1,978</i>	<i>1,978</i>			
40600200	BITUMINOUS MATERIALS (PRIME COAT)	TON	<i>6.2</i>	<i>6.2</i>			
40600300	AGGREGATE (PRIME COAT)	TON	<i>40.5</i>	<i>40.5</i>			
40600625	LEVELING BINDER (MACHINE METHOD), N50	TON	229	229			
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SQ YD	187	187			
40600990	TEMPORARY RAMP	SQ YD	50	50			
40603310	HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50	TON	<i>362</i>	<i>362</i>			
44000100	PAVEMENT REMOVAL	SQ YD	<i>524</i>	<i>524</i>			
44200144	PAVEMENT PATCHING, TYPE II, 12 INCH	SQ YD	100	100			
44200148	PAVEMENT PATCHING, TYPE III, 12 INCH	SQ YD	100	100			
48101200	AGGREGATE SHOULDERS, TYPE B	TON	60	60			

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PLOT DATE = Oct-21-2009 11:02:51AM		DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SUMMARY OF QUANTITIES

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
325	114 (B-1)	MACOUPIN	57	4
CONTRACT NO. 72646				
ILLINOIS FED. AID PROJECT				

Rev.

SUMMARY OF QUANTITIES

ILLINOIS DEPARTMENT OF TRANSPORTATION							
SUMMARY OF QUANTITIES							
LOCATION OF WORK				CONSTRUCTION TYPE CODE			
CODE NO.	ITEM	UNIT	<i>80% FED. 20% STATE</i> TOTAL QUANTITY	ROADWAY 1000	STRUCTURE Y007		
50100300	REMOVAL OF EXISTING STRUCTURE NO. 1	EACH	1		1		
50100400	REMOVAL OF EXISTING STRUCTURE NO. 2	EACH	1	1			
50100500	REMOVAL OF EXISTING STRUCTURE NO. 3	EACH	1	1			
50104400	CONCRETE HEADWALL REMOVAL	EACH	2	2			
50105220	PIPE CULVERT REMOVAL	FOOT	23	23			
50800105	REINFORCEMENT BARS	POUND	34,440		34,440		
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	1,240		1,240		
50800515	BAR SPLICERS	EACH	92		92		
54003000	CONCRETE BOX CULVERTS	CU YD	225.7		225.7		
54200640	PIPE CULVERTS, TYPE 1, <i>CORRUGATED STEEL OR ALUMINUM</i> CULVERT PIPE 15"	FOOT	52	52			
54201285	PIPE CULVERTS, TYPE 2 RCCP 30"	FOOT	69	69			
54213675	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 30"	EACH	2	2			
60600095	CLASS SI CONCRETE (OUTLET)	CU YD	5.4	5.4			
60602500	CONCRETE GUTTER, TYPE A	FOOT	188	188			
63200310	GUARDRAIL REMOVAL	FOOT	116	116			

SUMMARY OF QUANTITIES

ILLINOIS DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

LOCATION OF WORK				CONSTRUCTION TYPE CODE			
CODE NO.	ITEM	UNIT	<i>80% FED. 20% STATE</i> TOTAL QUANTITY	ROADWAY 1000	STRUCTURE Y007		
63300740	TEMPORARY GUARD RAIL	FOOT	75	75			
66502300	WOVEN WIRE FENCE REMOVAL	FOOT	788	788			
66600105	FURNISHING AND ERECTING RIGHT-OF-WAY MARKERS	EACH	13	13			
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	12	12			
67100100	MOBILIZATION	L SUM	1	1			
70100405	TRAFFIC CONTROL AND PROTECTION, STANDARD 701321	EACH	1	1			
70100450	TRAFFIC CONTROL AND PROTECTION, STANDARD 701201	L SUM	1	1			
70100460	TRAFFIC CONTROL AND PROTECTION, STANDARD 701306	L SUM	1	1			
70100500	TRAFFIC CONTROL AND PROTECTION, STANDARD 701326	L SUM	1	1			
70101830	TRAFFIC CONTROL AND PROTECTION, STANDARD BLR 21	L SUM	1	1			
70103815	TRAFFIC CONTROL SURVEILLANCE	CAL DA	15	15			
70106500	TEMPORARY BRIDGE TRAFFIC SIGNALS	EACH	1	1			
70300100	SHORT-TERM PAVEMENT MARKING	FOOT	<i>320</i>	<i>320</i>			
70300230	TEMPORARY PAVEMENT MARKING - LINE 5"	FOOT	<i>2,400</i>	<i>2,400</i>			

SUMMARY OF QUANTITIES

ILLINOIS DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

LOCATION OF WORK				CONSTRUCTION TYPE CODE			
CODE NO.	ITEM	UNIT	<i>80% FED. 20% STATE</i> TOTAL QUANTITY	ROADWAY 1000	STRUCTURE Y007		
70301000	WORK ZONE PAVEMENT MARKING REMOVAL	SQ FT	30	30			
70400100	TEMPORARY CONCRETE BARRIER	FOOT	487.5	487.5			
70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	487.5	487.5			
* 78001120	PAINT PAVEMENT MARKING - LINE 5"	FOOT	<i>2,400</i>	<i>2,400</i>			
* 78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	14	14			
78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	14	14			
X0323988	TEMPORARY SOIL RETENTION SYSTEM	SQ FT	1,256		1,256		
<i>X0324028</i>	<i>GROUT FOR USE WITH RIPRAP</i>	<i>CU YD</i>	<i>10</i>	<i>10</i>			
X0324118	GRANULAR CULVERT BACKFILL	CU YD	1,834		1,834		
X7200201	WIDTH RESTRICTION SIGNING	L SUM	1	1			
X7050167	TEMPORARY TRAFFIC BARRIER TERMINAL, TYPE 1, SPECIAL (TANGENT)	EACH	2	2			
Z0013798	CONSTRUCTION LAYOUT	L SUM	1	1			
Z0030260	IMPACT ATTENUATORS, TEMPORARY (FULLY REDIRECTIVE, NARROW), TEST LEVEL 3	EACH	2	2			
Z0030330	IMPACT ATTENUATORS, RELOCATE (FULLY REDIRECTIVE, NARROW), TEST LEVEL 3	EACH	2	2			
* Z0054517	ROCK FILL - FOUNDATION	TON	130		130		

**Specialty Items*

Rev.

FILE NAME =	USER NAME = loughlinc1	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUMMARY OF QUANTITIES	F.A.P. RTE. 325	SECTION 114 (B-1)	COUNTY MACOUPIN	TOTAL SHEETS 57	SHEET NO. 7
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	PLOT DATE = Oct-21-2009 11:02:59AM	DATE -	REVISED -							
										ILLINOIS FED. AID PROJECT CONTRACT NO. 72646

SCHEDULE OF QUANTITIES

PAVING SCHEDULE												
STATION	LT/RT	PAVEMENT REMOVAL	HMA BASE COURSE, 10"	BITUMINOUS MATERIALS (PRIME COAT)	AGGREGATE (PRIME COAT)	LEVELING BINDER (MACHINE METHOD) N50	HMA SURFACE REMOVAL - BUTT JOINT	TEMPORARY RAMP	HMA SURFACE COURSE, MIX "C", N50	AGGREGATE SHOULDERS, TYPE B	CONCRETE OUTLET CLASS SI	CONCRETE GUTTER, TYPE A
		(SQ YD)	(SQ YD)	(TON)	(TON)	(TON)	(SQ YD)	(SQ YD)	(TON)	(TON)	(CU YD)	(FOOT)
IL ROUTE 16 (ROADWAY)												
STA. 808+27 TO STA. 809+33		524	324.4	0.7								
STA. 803+90 TO STA. 813+60						144.9						
STA. 803+50 TO STA. 803+80							80	14				
STA. 813+70 TO STA. 814+00							107	14				
STA. 803+50 TO STA. 814+00 (SHOULDER AREA)				2.2	28.0				235.2			
STA. 803+50 TO STA. 814+00	LT / RT									60		
STA. 804+00 TO STA. 814+00	RT		860.0	1.9	7.7	39.7			59.6			
STA. 805+50 TO STA. 811+50	LT		466.7	1.1	4.8	26.1			39.2			
STA. 811+03 TO STA. 811+50	RT										4.1	
STA. 811+50 TO STA. 813+38	RT											188
STA. 813+38 TO STA. 813+50	RT										1.3	
WREN ROAD												
			326.8	0.3		18.3		22	27.5			
TOTALS / USE		524	1,978	6.2	40.5	229	187	50	362	60	5.4	188

EARTHWORK SCHEDULE				
LOCATION	EARTH EXCAVATION (C)	EARTH EXCAVATION ADJUSTED FOR SHRINKAGE (25%)	EMBANKMENT (F)	EARTHWORK BALANCE WASTE (+) OR SHORTAGE (-)
	(CU YD)	(CU YD)	(CU YD)	(CU YD)
STAGE 1A	2,431	1,823	872	951
STAGE 1B	1,098	824	942	-118
STAGE 2	125	94	661	-567
STAGE 3	1,421	1,066	332	734
WREN RD.	165	99	6	93
TOTALS	5,240	3,906	2,813	* 1,093

* 25% SHRINKAGE FACTOR APPLIED

DRAINAGE STRUCTURE SCHEDULE								
LOCATION	STATION	LT/RT	PIPE CULVERTS		TRENCH BACKFILL	PRC FLARED END SECTIONS 30"	PIPE CULVERT REMOVAL	CONCRETE HEADWALL REMOVAL
			CS/A	RCCP				
			TYPE 1 15"	TYPE 2 30"				
			(FOOT)	(FOOT)	(CU YD)	(EACH)	(FOOT)	(EACH)
IL ROUTE 16								
	STA. 807+79.20 TO STA. 808+60.00	LT		69	50.4	2		
	STA. 810+56 TO STA. 810+79	RT					23	2
	STA. 810+50.00 TO STA. 811+00.00	RT	52		3.1			
TOTALS / USE			52	69	54	2	23	2

SCHEDULE OF QUANTITIES

FENCE, BARRIERS AND GUARDRAIL SCHEDULE								
STATION	WOVEN WIRE FENCE REMOVAL	TEMPORARY STEEL PLATE BEAM GUARDRAIL, TYPE A	GUARDRAIL REMOVAL	TEMP. TRAF. BAR. TERMINAL, TYPE 1, SP (TAN)	TEMPORARY CONCRETE BARRIER	RELOCATE CONCRETE BARRIER	IMPACT ATTENUATOR, TEMPORARY (FULLY-REDIRECTIVE NARROW), TEST LEVEL 3	IMPACT ATTENUATOR, RELOCATE (FULLY-REDIRECTIVE NARROW), TEST LEVEL 3
	(FOOT)	(FOOT)	(FOOT)	(EACH)	(FOOT)	(FOOT)	(EACH)	(EACH)
IL ROUTE 16								
STA. 806+20, 4' RT							1	
STA. 806+20, 4' LT								1
STA. 806+20 TO STA. 808+00					180	180		
STA. 807+20, 40' RT TO STA. 808+17, 41' RT	98							
STA. 808+00, TO STA. 809+50					150	150		
STA. 808+35 TO STA. 808+85, LT.				1				
STA. 807+96, 20' RT TO STA. 808+49, 20' RT			53					
STA. 808+17, 120' LT TO STA. 808+19, 51' LT	69							
STA. 808+19, 51' LT TO STA. 808+88, 51' LT	69							
STA. 808+85 TO STA. 809+60, LT.		75						
STA. 808+67, 42' RT TO STA. 810+60, 50' RT	193							
STA. 809+06, 20' LT TO STA. 809+69, 19' LT			63					
STA. 809+60 TO STA. 810+10, LT.				1				
STA. 809+44, 43' LT TO STA. 809+58, 52' LT	17							
STA. 809+58, 52' LT TO STA. 813+00, 52' LT	342							
STA. 809+50, TO STA. 811+00					150	150		
STA. 811+00, 4' RT							1	
STA. 811+00, 4' LT								1
TOTALS	788	75	116	2	480	480	2	2
USE	788	75	116	2	487.5	487.5	2	2

FURNISHING AND ERECTING RIGHT-OF-WAY MARKERS		
STATION	OFFSET	R-O-W MARKERS
		(EACH)
IL ROUTE 16		
STA. 805+50.00	40.00' LT	1
STA. 806+00.00	70.00' LT	1
STA. 806+00.00	40.00' RT	1
STA. 806+50.00	110.00' RT	1
STA. 807+25.00	70.00' LT	1
STA. 807+75.52	120.00' LT	1
STA. 808+15.64	120.00' LT	1
STA. 809+00.00	110.00' RT	1
STA. 810+50.00	50.00' RT	1
STA. 810+50.00	120.00' LT	1
STA. 811+00.00	70.00' LT	1
STA. 812+50.00	70.00' LT	1
STA. 813+00.00	50.00' LT	1
TOTALS		13

TREE REMOVAL SCHEDULE	
LOCATION	TREE REMOVAL, ACRES
	ACRE
IL ROUTE 16	
STA. 803+50 TO STA. 814+00	3.5
TOTAL	3.5

ESTIMATED QUANTITIES		
PAY ITEM	UNIT	QUANTITY
(*) MULCH, METHOD 2	ACRE	1.5
EARTH EXCAVATION FOR EROSION CONTROL	CU YD	20
TEMPORARY EROSION CONTROL SEEDING	POUND	400
AGGREGATE DITCH CHECKS	TON	80
PERIMETER EROSION BARRIER	FOOT	150
AGGREGATE (EROSION CONTROL)	TON	59
TEMPORARY PAVEMENT MARKING - LINE 5"	FOOT	2,400
GROUT FOR USE WITH RIPRAP	CU YD	19

(*) ESTIMATED QUANTITY FOR TEMPORARY EROSION CONTROL.

EROSION CONTROL SCHEDULE		
LOCATION	STONE DUMPED RIPRAP, CLASS A4	FILTER FABRIC
	(TON)	(SQ YD)
IL ROUTE 16		
STA. 808+12 TO STA. 810+00, LT		
STA. 810+00 TO STA. 811+50, LT		
STA. 806+00 TO STA. 810+60, RT	1,827	2,569
STA. 808+20 TO STA. 812+00, LT.	1,321	1,858
STA. 807+35, 35' LT.		
STA. 807+77, 76' LT.		
STA. 808+75, 75' LT.		
STA. 809+65, 85' LT.		
STA. 809+80, 100' LT.		
STA. 810+10, 100' LT.		
STA. 807+50, 80' RT.		
STA. 809+20, 65' RT.		
STA. 811+10, 25' RT.		
TOTALS	3,148	4,427
USE	3,150	4,430

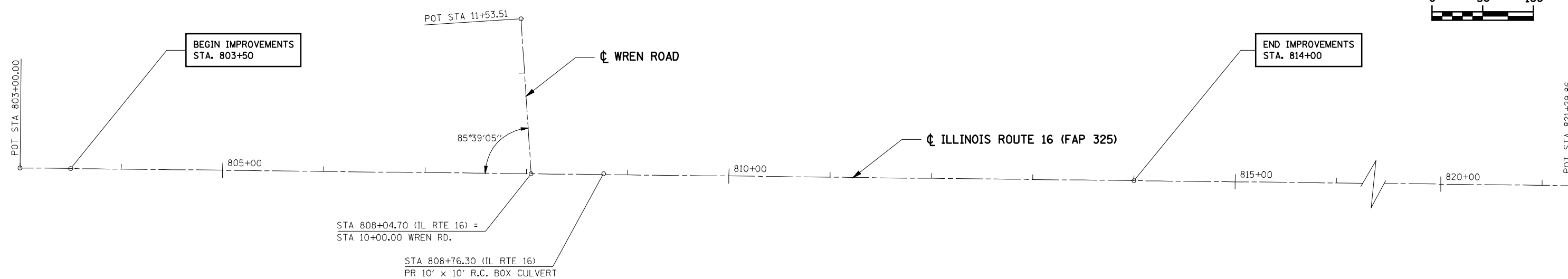
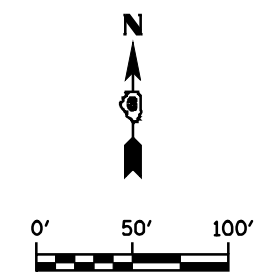
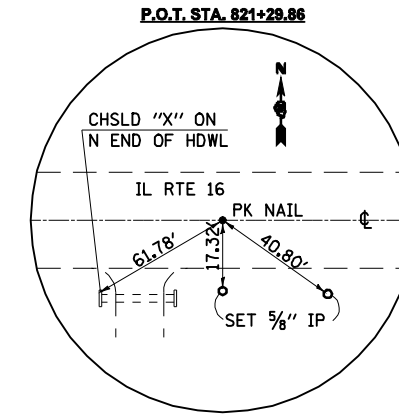
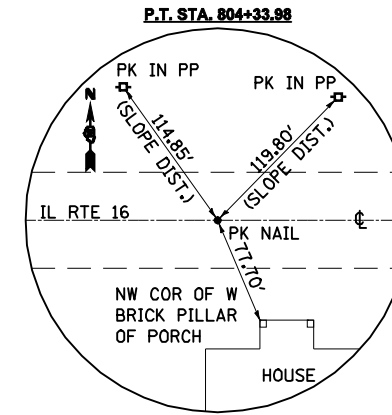
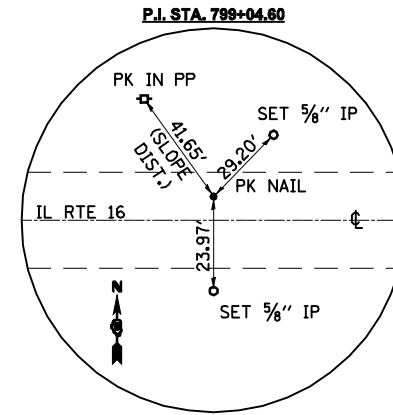
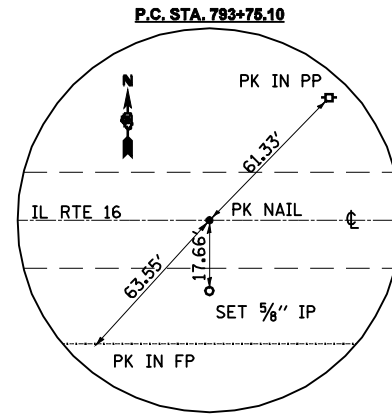
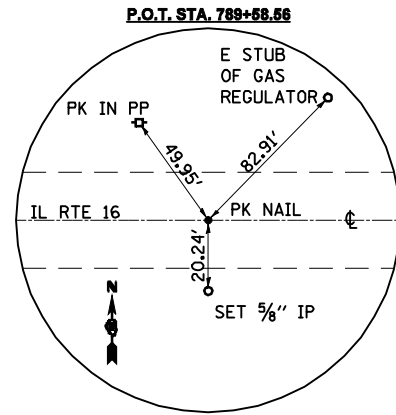
SCHEDULE OF QUANTITIES

PAVEMENT MARKING SCHEDULE							
LOCATION			PAINT PAVEMENT MARKING - LINE 5"		SHORT TERM PAVEMENT MARKING	WORKZONE PAVEMENT MARKING REMOVAL	RAISED REFLECTIVE PAVEMENT MARKERS
			EDGE LINE SOLID WHITE	⌄ SKIP DASH YELLOW	CENTERLINE (3) APPS		
			(FOOT)	(FOOT)	(SQ FT)	(EACH)	
IL ROUTE 16							
STA. 803+50, LT	TO	STA. 814+00, LT	1,050				
STA. 803+50	TO	STA. 814+00		270	324	40	14
STA. 803+50, RT	TO	STA. 814+00, RT	1,050				
TOTALS			2,100	270	324	40	14
USE			2,400		320	40	14

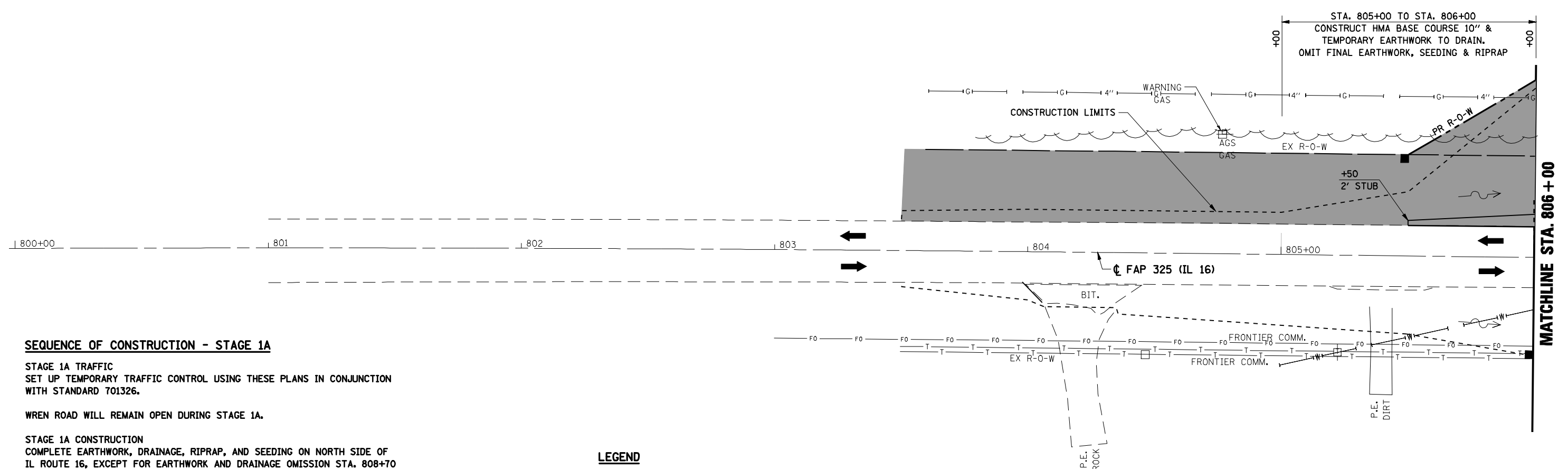
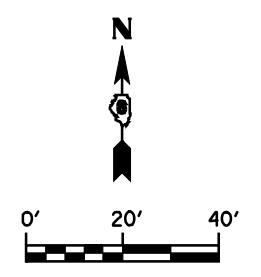
SEEDING SCHEDULE									
STATION	TO	STATION	TOTAL AREA	SEEDING CLASS 2	NITROGEN	PHOSPHORUS	POTASSIUM	AGRICULTURAL GROUND LIMESTONE	(*) MULCH, METHOD 2
			(SQ FT)	(ACRE)	(POUND)	(POUND)	(POUND)	(TON)	(ACRES)
IL ROUTE 16									
STA. 804+00		STA. 813+50	46,500	1.07	99	99	99	2.14	1.07
TOTAL / USE			46,500	1.1	100	100	100	2.2	1.1

(*) ESTIMATED QUANTITY FOR FINAL SEEDING

BMCL 204: SET CHISELED SQUARE IN CENTER OF SOUTH HEADWALL OF 10x10 BOX CULVERT ON IL 16 JUST EAST OF INTERSECTION OF IL 16 AND WREN RD (425E) STA. 808+58, 28' RT. NAVD 88 ELEV = 602.24



FILE NAME =	USER NAME = laughlinr1	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	ALIGNMENT, TIES & BENCHMARKS			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
e:\pwwork\pwidot\LAUGHLINRL\10169540\10169540.dgn	DRAWN -	REVISED -	325					114 (B-1)	MACOUPIN	57	12	
PLOT SCALE = 100.0000' / IN.	CHECKED -	REVISED -	CONTRACT NO. 72646									
PLOT DATE = Oct-21-2009 11:03:35AM	DATE -	REVISED -	ILLINOIS FED. AID PROJECT									
				SCALE:	SHEET NO.	OF SHEETS	STA.	TO STA.				



SEQUENCE OF CONSTRUCTION - STAGE 1A

STAGE 1A TRAFFIC
 SET UP TEMPORARY TRAFFIC CONTROL USING THESE PLANS IN CONJUNCTION WITH STANDARD 701326.

WREN ROAD WILL REMAIN OPEN DURING STAGE 1A.

STAGE 1A CONSTRUCTION
 COMPLETE EARTHWORK, DRAINAGE, RIPRAP, AND SEEDING ON NORTH SIDE OF IL ROUTE 16, EXCEPT FOR EARTHWORK AND DRAINAGE OMISSION STA. 808+70 TO STA. 810+00.

CONSTRUCT HMA BASE COURSE 10" FOR WIDENING ON NORTH SIDE OF IL ROUTE 16.

CONSTRUCT HMA BASE COURSE 10" FOR WREN ROAD.

CONSTRUCT TEMPORARY GUARDRAIL ON NORTH SIDE OF IL ROUTE 16.

GENERAL STAGING NOTES

- CONTRACTOR SHALL MAINTAIN ACCESS TO PRIVATE ENTRANCES AT ALL TIMES.
- ACCESS MUST BE PROVIDED TO ALL ENTRANCES. NO SIGNALS WILL BE REQUIRED.
- THIS TRAFFIC CONTROL PLAN SHALL BE USED IN CONJUNCTION WITH THE REFERENCED STANDARDS AND AS DIRECTED BY THE ENGINEER.
- TEMPORARY PAVEMENT MARKING AND WORK ZONE PAVEMENT MARKING REMOVAL REQUIRED FOR TRAFFIC CONTROL STANDARDS WILL NOT BE PAID FOR SEPARATELY.

LEGEND

- WORK AREA
- SIGN
- TYPE III BARRICADE
- DRUM WITH STEADY BURNING LIGHT
- TRAFFIC SIGNAL
- TYPE C BIDIRECTIONAL REFLECTOR
- TEMPORARY CONCRETE BARRIER
- IMPACT ATTENUATOR
- STEADY BURNING LIGHTS AND DOUBLE VERTICAL PANELS
- TRAFFIC FLOW

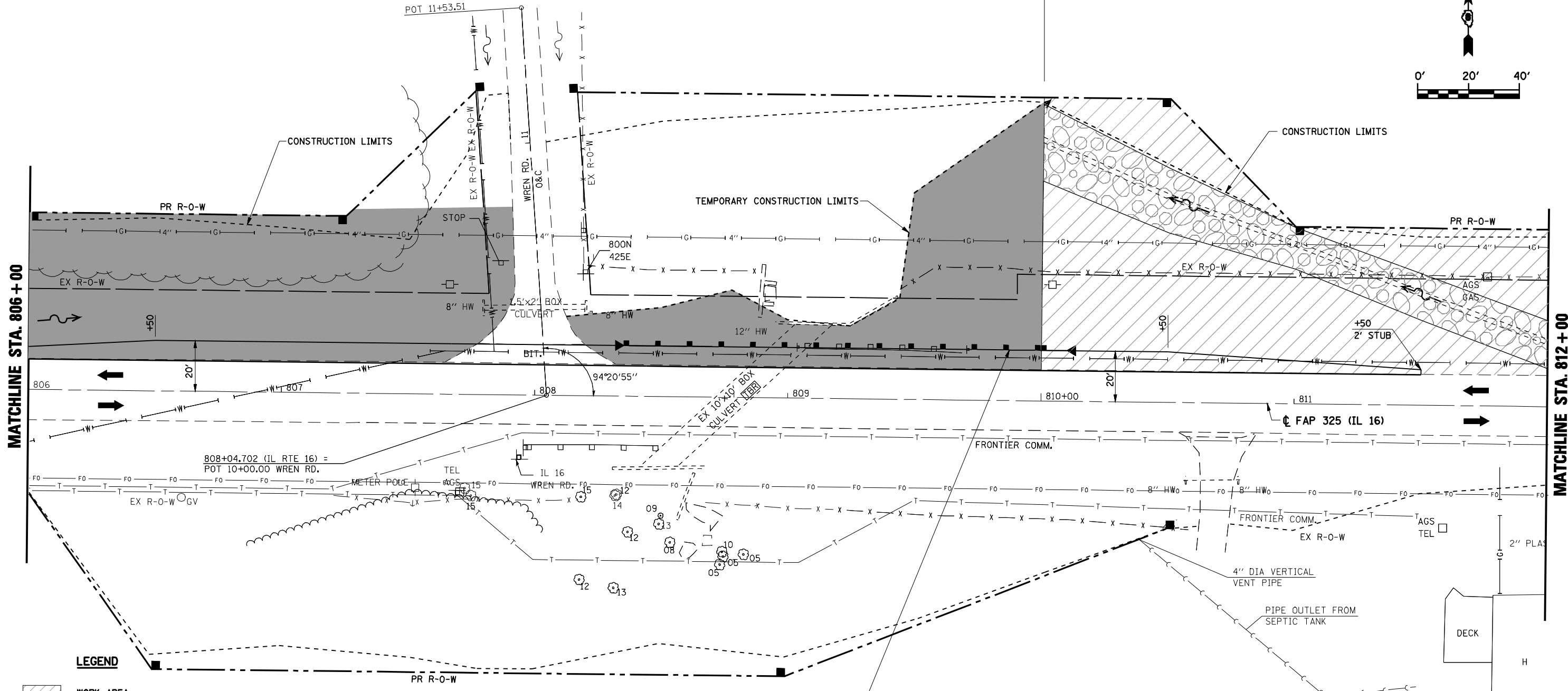
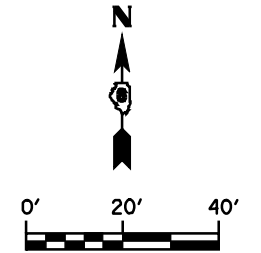
NOTE:

SEE "STORM WATER POLLUTION PREVENTION PLANS" FOR TEMPORARY EROSION CONTROL.

FILE NAME =	USER NAME = laughlinr1	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	MAINTENANCE OF TRAFFIC STAGE 1A STA. 803 + 50 TO STA. 806 + 00				F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
et:\pwwork\pwwid01\LAUGHLINRL\20169540\801STAGING1A.dgn		DRAWN -	REVISED -		325	114 (B-1)	MACOUPIN	57	13				
PLOT SCALE = 40.0000' / IN.		CHECKED -	REVISED -		CONTRACT NO. 72646								
PLOT DATE = Oct-21-2009 11:03:37AM		DATE -	REVISED -		ILLINOIS FED. AID PROJECT								
					SCALE:	SHEET NO.	OF SHEETS	STA.	TO STA.				

STA. 806+00 TO STA. 810+00
 CONSTRUCT HMA BASE COURSE 10" &
 TEMPORARY EARTHWORK TO DRAIN.
 OMIT FINAL EARTHWORK, SEEDING & RIPRAP

STA. 810+00 TO STA. 812+00
 CONSTRUCT HMA BASE COURSE 10",
 FINAL EARTHWORK, SEED & RIPRAP



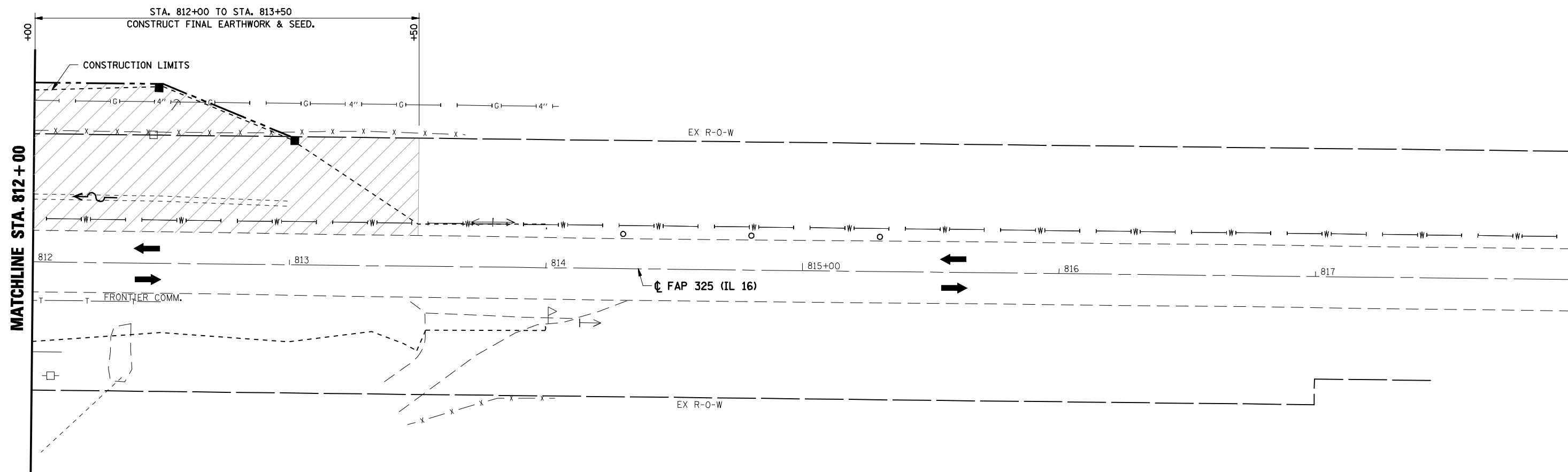
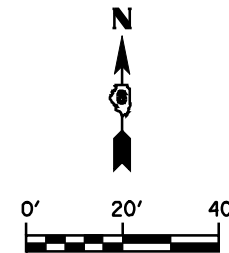
LEGEND

- WORK AREA
- SIGN
- TYPE III BARRICADE
- DRUM WITH STEADY BURNING LIGHT
- TRAFFIC SIGNAL
- TYPE C BIDIRECTIONAL REFLECTOR
- TEMPORARY CONCRETE BARRIER
- IMPACT ATTENUATOR
- STEADY BURNING LIGHTS AND DOUBLE VERTICAL PANELS
- TRAFFIC FLOW

TEMPORARY GUARDRAIL 20' LT
 TRAFFIC BARRIER TERMINAL TYPE 1 (SPECIAL) TANGENT STA. 808+35 TO STA. 808+85
 STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS STA. 808+85 TO STA. 809+60
 TRAFFIC BARRIER TERMINAL TYPE 1 (SPECIAL) TANGENT STA. 809+60 TO STA. 810+10
 REMOVE EXISTING GUARDRAIL LT STA. 809+06 TO STA. 809+69

NOTE:
 SEE "STORM WATER POLLUTION
 PREVENTION PLANS" FOR TEMPORARY
 EROSION CONTROL.

FILE NAME =	USER NAME = laughlinr1	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	MAINTENANCE OF TRAFFIC STAGE 1A STA. 806 + 00 TO STA. 812 + 00			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
es:\pw\work\PWIDOT\LAUGHLINRL\0169540\811STAGING1A.dgn		DRAWN -	REVISED -					325	114 (B-1)	MACOUPIN	57	14
PLOT SCALE = 40.0000' / IN.		CHECKED -	REVISED -					CONTRACT NO. 72646				
PLOT DATE = Oct-21-2009 11:08:39AM		DATE -	REVISED -					ILLINOIS FED. AID PROJECT				
				SCALE:	SHEET NO.	OF SHEETS	STA.	TO STA.				



LEGEND

- WORK AREA
- SIGN
- TYPE III BARRICADE
- DRUM WITH STEADY BURNING LIGHT
- TRAFFIC SIGNAL
- TYPE C BIDIRECTIONAL REFLECTOR
- TEMPORARY CONCRETE BARRIER
- IMPACT ATTENUATOR
- STEADY BURNING LIGHTS AND DOUBLE VERTICAL PANELS
- TRAFFIC FLOW

NOTE:

SEE "STORM WATER POLLUTION PREVENTION PLANS" FOR TEMPORARY EROSION CONTROL.

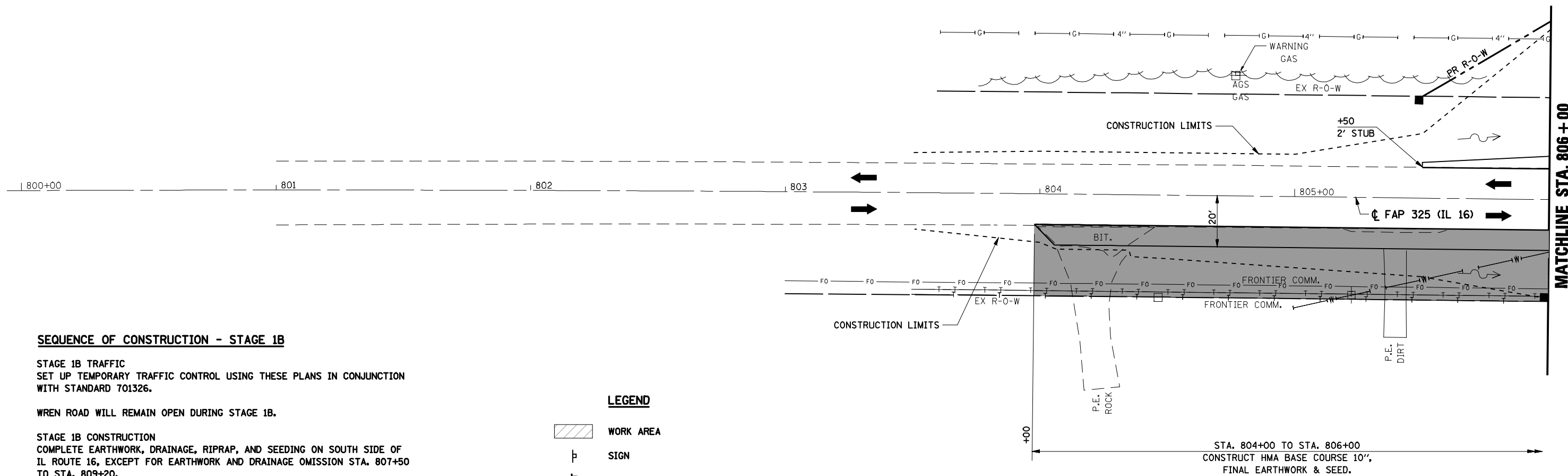
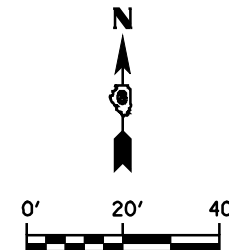
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**MAINTENANCE OF TRAFFIC
STAGE 1A STA. 812+00 TO STA. 814+00**

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
325	114 (B-1)	MACOUPIN	57	15
CONTRACT NO. 72646				
<small>ILLINOIS FED. AID PROJECT</small>				



SEQUENCE OF CONSTRUCTION - STAGE 1B

STAGE 1B TRAFFIC
 SET UP TEMPORARY TRAFFIC CONTROL USING THESE PLANS IN CONJUNCTION WITH STANDARD 701326.

WREN ROAD WILL REMAIN OPEN DURING STAGE 1B.

STAGE 1B CONSTRUCTION
 COMPLETE EARTHWORK, DRAINAGE, RIPRAP, AND SEEDING ON SOUTH SIDE OF IL ROUTE 16, EXCEPT FOR EARTHWORK AND DRAINAGE OMISSION STA. 807+50 TO STA. 809+20.

CONSTRUCT HMA BASE COURSE 10" FOR WIDENING ON SOUTH SIDE OF IL ROUTE 16, EXCEPT FOR PAVING OMISSION FROM STA. 807+50 TO STA. 809+20.

GENERAL STAGING NOTES

- CONTRACTOR SHALL MAINTAIN ACCESS TO PRIVATE ENTRANCES AT ALL TIMES.
- ACCESS MUST BE PROVIDED TO ALL ENTRANCES. NO SIGNALS WILL BE REQUIRED.
- THIS TRAFFIC CONTROL PLAN SHALL BE USED IN CONJUNCTION WITH THE REFERENCED STANDARDS AND AS DIRECTED BY THE ENGINEER.
- TEMPORARY PAVEMENT MARKING AND WORK ZONE PAVEMENT MARKING REMOVAL REQUIRED FOR TRAFFIC CONTROL STANDARDS WILL NOT BE PAID FOR SEPARATELY.

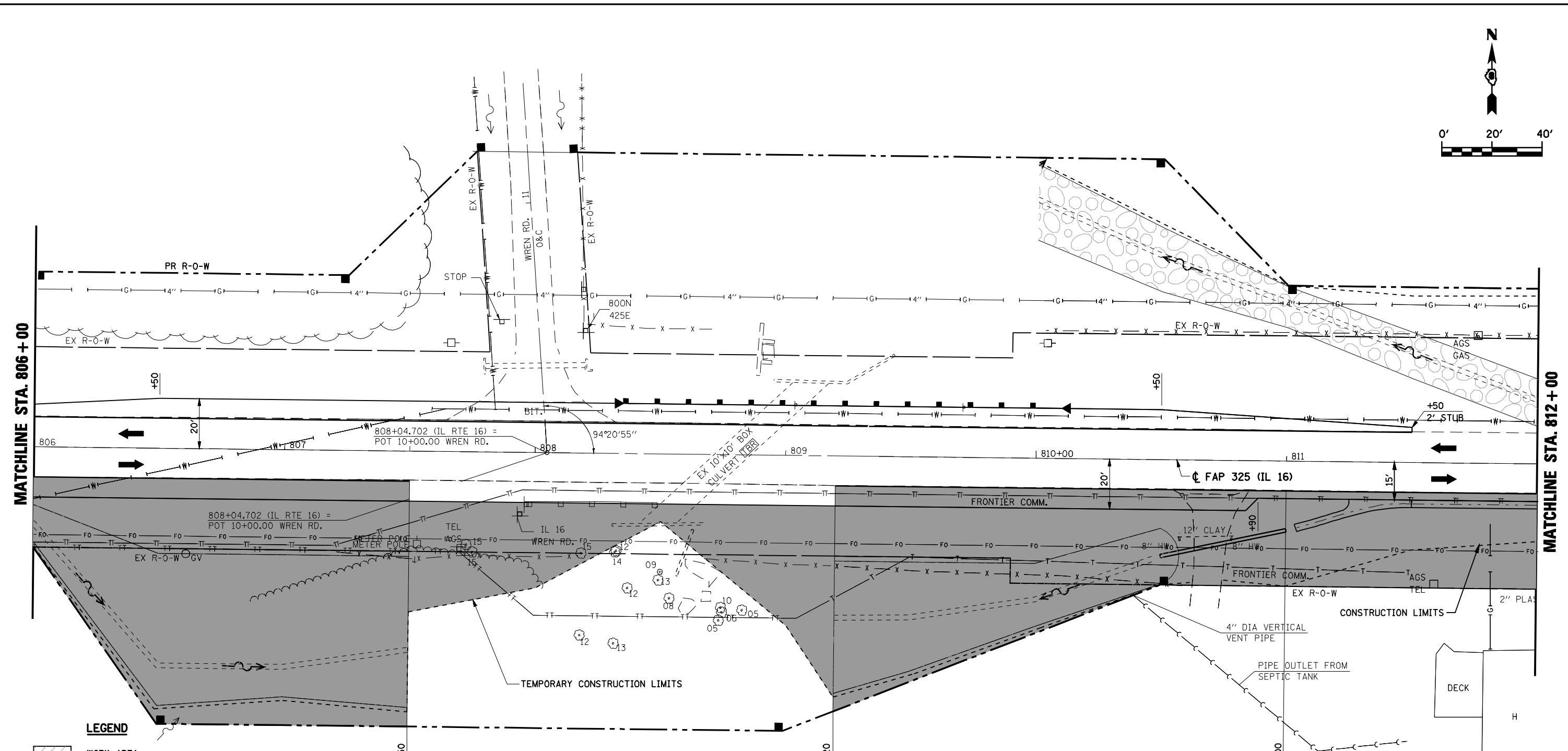
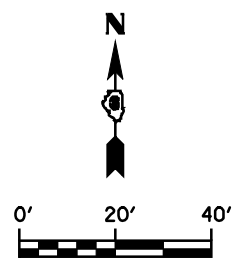
LEGEND

- WORK AREA
- SIGN
- TYPE III BARRICADE
- DRUM WITH STEADY BURNING LIGHT
- TRAFFIC SIGNAL
- TYPE C BIDIRECTIONAL REFLECTOR
- TEMPORARY CONCRETE BARRIER
- IMPACT ATTENUATOR
- STEADY BURNING LIGHTS AND DOUBLE VERTICAL PANELS
- TRAFFIC FLOW

NOTE:

SEE "STORM WATER POLLUTION PREVENTION PLANS" FOR TEMPORARY EROSION CONTROL.

FILE NAME =	USER NAME = laughlinr1	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	MAINTENANCE OF TRAFFIC STAGE 1B STA. 803+50 TO STA. 806+00	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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PLOT DATE = Oct-21-2009 11:08:44AM	DATE -	REVISED -	ILLINOIS FED. AID PROJECT							
				SCALE:	SHEET NO. OF SHEETS	STA. TO STA.				



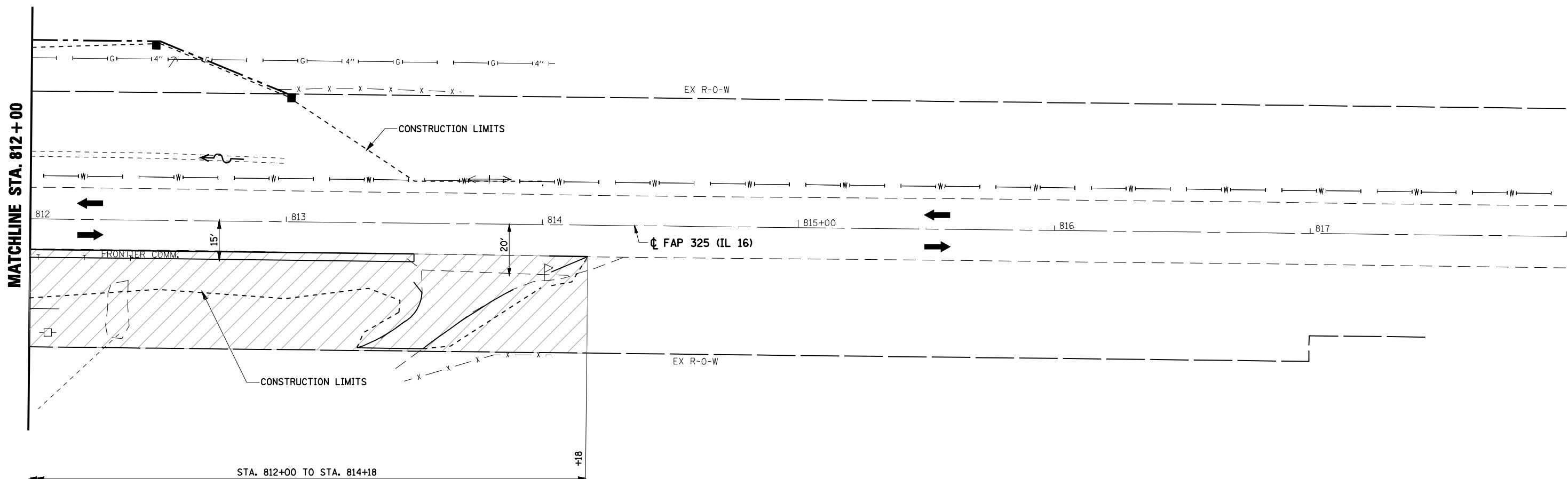
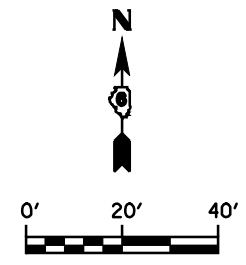
- LEGEND**
- WORK AREA
 - SIGN
 - TYPE III BARRICADE
 - DRUM WITH STEADY BURNING LIGHT
 - TRAFFIC SIGNAL
 - TYPE C BIDIRECTIONAL REFLECTOR
 - TEMPORARY CONCRETE BARRIER
 - IMPACT ATTENUATOR
 - STEADY BURNING LIGHTS AND DOUBLE VERTICAL PANELS
 - TRAFFIC FLOW

STA. 806+00 TO STA. 807+50 CONSTRUCT HMA BASE COURSE 10", FINAL EARTHWORK, SEED & RIPRAP.
 STA. 807+50 TO STA. 809+20 CONSTRUCT TEMPORARY EARTHWORK TO DRAIN. OMIT HMA BASE COURSE 10", FINAL EARTHWORK, SEED & RIPRAP.
 STA. 809+20 TO STA. 811+00 CONSTRUCT HMA BASE COURSE 10", PIPE CULVERT, FINAL EARTHWORK, SEED & RIPRAP.
 STA. 811+00 TO STA. 812+00 CONSTRUCT HMA BASE COURSE 10", TEMPORARY EARTHWORK TO DRAIN. OMIT GUTTER, FINAL EARTHWORK & SEED.

NOTES:
 THE CONTRACTOR SHALL STAKE OUT THE CONSTRUCTION LIMITS PRIOR TO ANY TREE REMOVAL. THE ENGINEER WILL THEN IDENTIFY ANY TREES TO BE SAVED. NO TREES SHALL BE REMOVED UNTIL THE ENGINEER HAS IDENTIFIED ALL TREES TO BE SAVED.







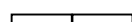



NOTE:
 SEE "STORM WATER POLLUTION PREVENTION PLANS" FOR TEMPORARY EROSION CONTROL.

FILE NAME =	USER NAME = laughlinr1	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	MAINTENANCE OF TRAFFIC STAGE 1B STA. 806 + 00 TO STA. 812 + 00			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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PLOT DATE = Oct-21-2009 11:08:46AM	DATE -	REVISED -	ILLINOIS FED. AID PROJECT									
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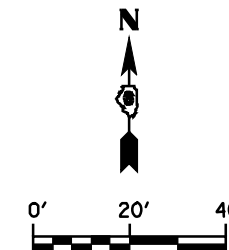
STA. 812+00 TO STA. 814+18
 CONSTRUCT HMA BASE COURSE 10"
 TEMPORARY EARTHWORK TO DRAIN.
 OMIT GUTTER, FINAL EARTHWORK & SEED.

LEGEND

-  WORK AREA
-  SIGN
-  TYPE III BARRICADE
-  DRUM WITH STEADY BURNING LIGHT
-  TRAFFIC SIGNAL
-  TYPE C BIDIRECTIONAL REFLECTOR
-  TEMPORARY CONCRETE BARRIER
-  IMPACT ATTENUATOR
-  STEADY BURNING LIGHTS AND DOUBLE VERTICAL PANELS
-  TRAFFIC FLOW

NOTE:
 SEE "STORM WATER POLLUTION
 PREVENTION PLANS" FOR TEMPORARY
 EROSION CONTROL.

FILE NAME =	USER NAME = #USER*	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	MAINTENANCE OF TRAFFIC STAGE 1B STA. 812 + 00 TO STA. 814 + 00	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
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	PLOT DATE = #DATE*	DATE -	REVISED -			ILLINOIS FED. AID PROJECT					
					SCALE:	SHEET NO.	OF SHEETS	STA.	TO STA.		



LEGEND

STAGE 2 TRAFFIC
 SET UP TEMPORARY TRAFFIC CONTROL USING THESE PLANS IN CONJUNCTION WITH STANDARD 701321.

INSTALL TEMPORARY TRAFFIC SIGNALS AND LOOP DETECTORS AT LOCATIONS SHOWN IN THESE PLANS AND IN STANDARD 701321.

PLACE TEMPORARY CONCRETE BARRIER AND PAVEMENT MARKING IN ACCORDANCE WITH THESE PLANS AND STANDARD 701321.

REMOVE ANY CONFLICTING PAVEMENT MARKINGS.

CHANNEL ALL TRAFFIC TO THE NORTH SIDE OF IL ROUTE 16.

WREN ROAD WILL REMAIN OPEN DURING STAGE 2.

STAGE 2 CONSTRUCTION
 INSTALL TEMPORARY SOIL RETENTION SYSTEM.

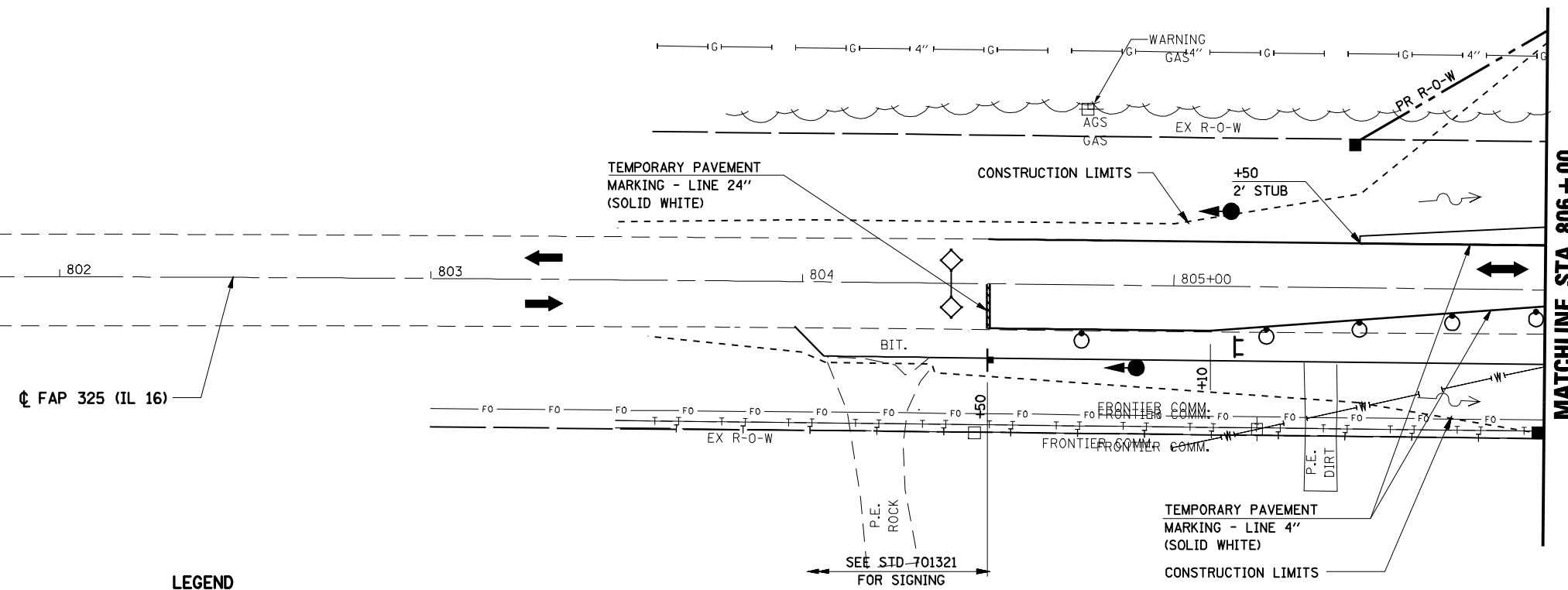
REMOVE AND REPLACE SOUTH PORTION OF BOX CULVERT.

REMOVE AND REPLACE PAVEMENT ON SOUTH SIDE OF IL ROUTE 16.

COMPLETE EARTHWORK, DRAINAGE, RIPRAP, AND SEEDING ON SOUTH SIDE OF IL ROUTE 16.

GENERAL STAGING NOTES

- CONTRACTOR SHALL MAINTAIN ACCESS TO PRIVATE ENTRANCES AT ALL TIMES.
- ACCESS MUST BE PROVIDED TO ALL ENTRANCES. NO SIGNALS WILL BE REQUIRED.
- THIS TRAFFIC CONTROL PLAN SHALL BE USED IN CONJUNCTION WITH THE REFERENCED STANDARDS AND AS DIRECTED BY THE ENGINEER.
- TEMPORARY PAVEMENT MARKING AND WORK ZONE PAVEMENT MARKING REMOVAL REQUIRED FOR TRAFFIC CONTROL STANDARDS WILL NOT BE PAID FOR SEPARATELY.



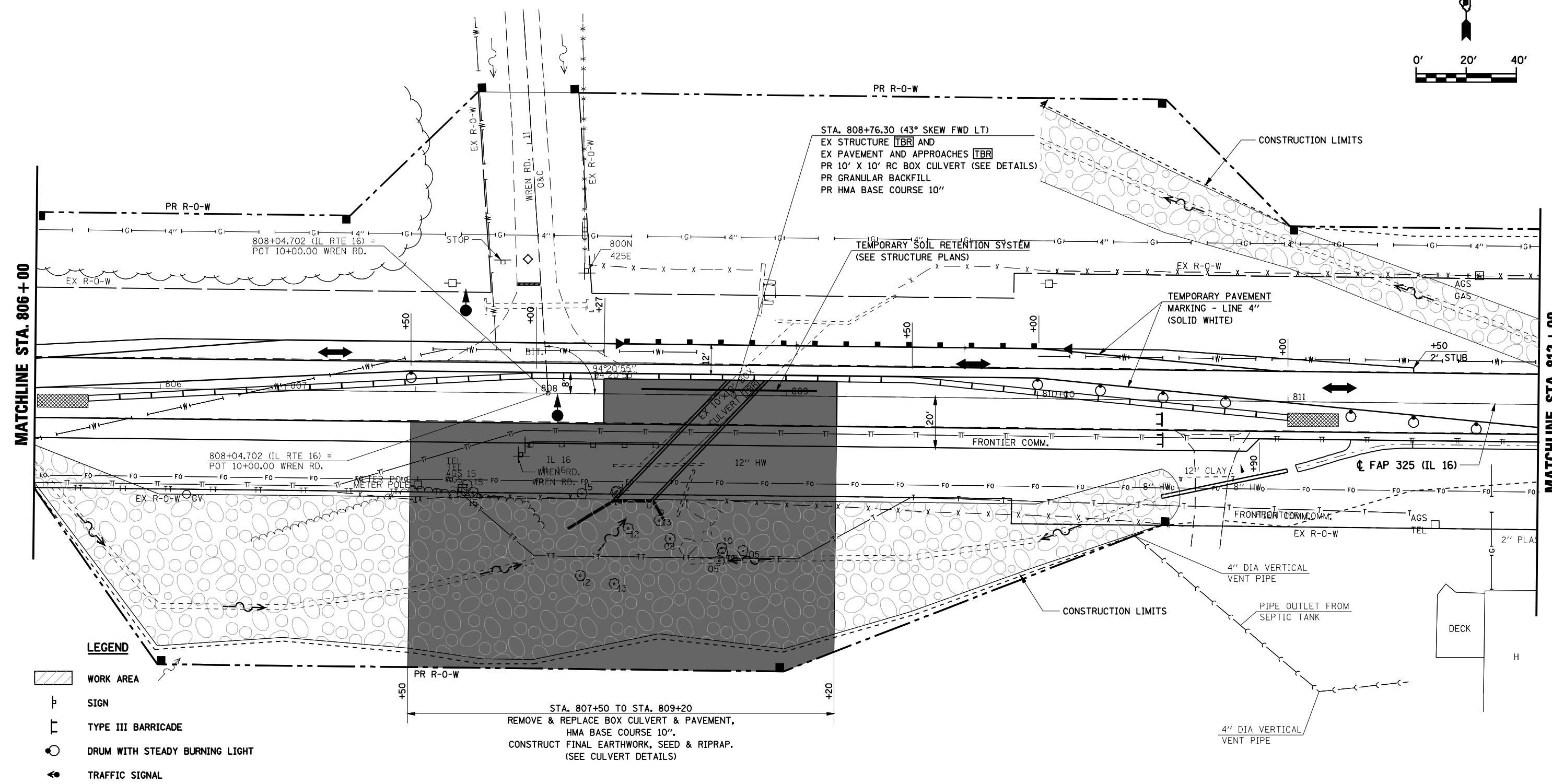
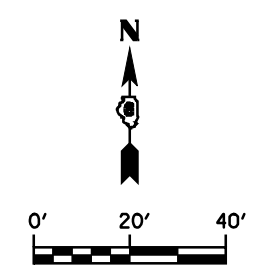
LEGEND

- WORK AREA
- SIGN
- TYPE III BARRICADE
- DRUM WITH STEADY BURNING LIGHT
- TRAFFIC SIGNAL
- TYPE C BIDIRECTIONAL REFLECTOR
- TEMPORARY CONCRETE BARRIER
- IMPACT ATTENUATOR
- STEADY BURNING LIGHTS AND DOUBLE VERTICAL PANELS
- TRAFFIC FLOW

NOTE:

SEE "STORM WATER POLLUTION PREVENTION PLANS" FOR TEMPORARY EROSION CONTROL.

FILE NAME =	USER NAME = laughlinr1	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	MAINTENANCE OF TRAFFIC STAGE 2			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
es:\pwork\PWIDOT\LAUGHLINRL\0169540\8181STAGING2.dgn		DRAWN - TRF	REVISED -		SCALE: 1"=20'	SHEET NO.	OF SHEETS	STA. 803+50	TO STA. 806+00	325	114 (B-1)	MACOUPIN	57 19
		PLOT SCALE = 40.0000' / IN.	CHECKED - RG		REVISED -								CONTRACT NO. 72646
		PLOT DATE = Oct-21-2009 11:05:14AM	DATE - 7/31/09		REVISED -								ILLINOIS FED. AID PROJECT



STA. 808+76.30 (43° SKEW FWD LT)
 EX STRUCTURE TBR AND
 EX PAVEMENT AND APPROACHES TBR
 PR 10' X 10' RC BOX CULVERT (SEE DETAILS)
 PR GRANULAR BACKFILL
 PR HMA BASE COURSE 10"

TEMPORARY SOIL RETENTION SYSTEM
 (SEE STRUCTURE PLANS)

TEMPORARY PAVEMENT
 MARKING - LINE 4"
 (SOLID WHITE)

STA. 807+50 TO STA. 809+20
 REMOVE & REPLACE BOX CULVERT & PAVEMENT,
 HMA BASE COURSE 10".
 CONSTRUCT FINAL EARTHWORK, SEED & RIPRAP.
 (SEE CULVERT DETAILS)

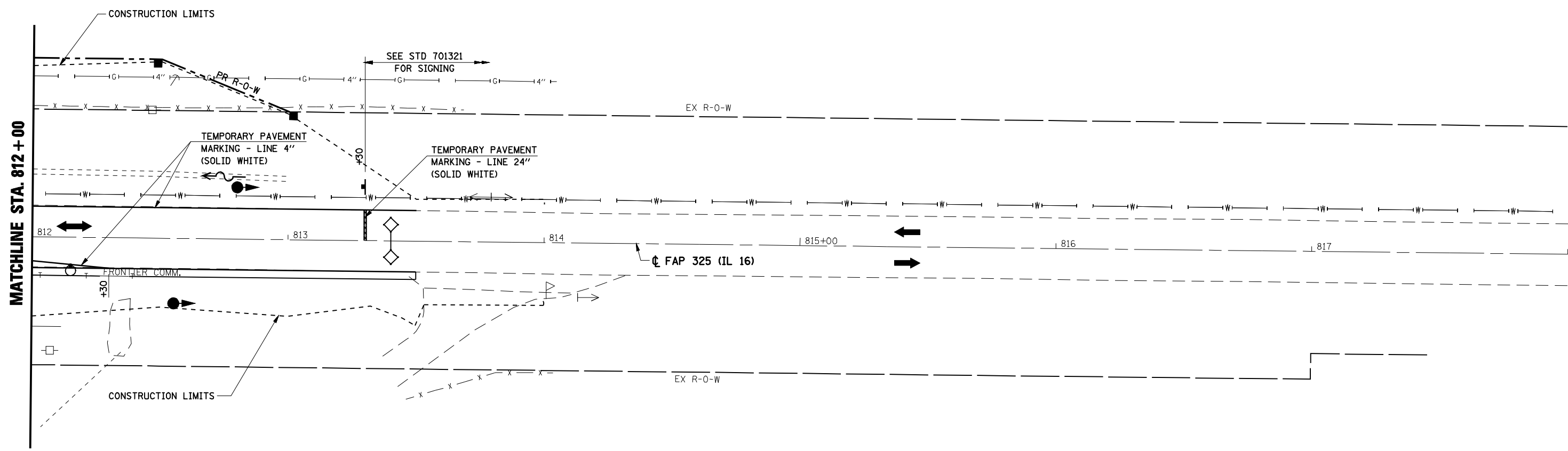
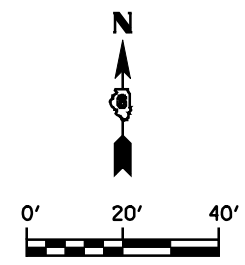
LEGEND

- WORK AREA
- SIGN
- TYPE III BARRICADE
- DRUM WITH STEADY BURNING LIGHT
- TRAFFIC SIGNAL
- TYPE C BIDIRECTIONAL REFLECTOR
- TEMPORARY CONCRETE BARRIER
- IMPACT ATTENUATOR
- STEADY BURNING LIGHTS AND DOUBLE VERTICAL PANELS
- TRAFFIC FLOW

NOTES:
 THE CONTRACTOR SHALL STAKE OUT THE CONSTRUCTION LIMITS PRIOR TO ANY TREE REMOVAL. THE ENGINEER WILL THEN IDENTIFY ANY TREES TO BE SAVED. NO TREES SHALL BE REMOVED UNTIL THE ENGINEER HAS IDENTIFIED ALL TREES TO BE SAVED.

NOTE:
 SEE "STORM WATER POLLUTION PREVENTION PLANS" FOR TEMPORARY EROSION CONTROL.

FILE NAME =	USER NAME = laughlinr1	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	MAINTENANCE OF TRAFFIC STAGE 2			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
et:\pw\work\PWIDOT\LAUGHLINRL\0169540\811\STAGING2.dgn		DRAWN - TRF	REVISED -		SCALE: 1"=20'	SHEET NO.	OF SHEETS	STA. 806+00 TO STA. 812+00	325	114 (B-1)	MACOUPIN	57	20
PLOT SCALE = 48.0000' / IN.		CHECKED - RG	REVISED -						CONTRACT NO. 72646				
PLOT DATE = Oct-21-2009 11:08:53AM		DATE - 7/31/09	REVISED -						ILLINOIS FED. AID PROJECT				

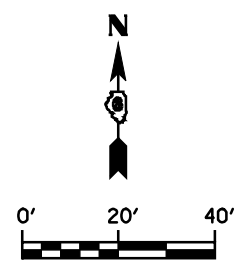


LEGEND

- WORK AREA
- SIGN
- TYPE III BARRICADE
- DRUM WITH STEADY BURNING LIGHT
- TRAFFIC SIGNAL
- TYPE C BIDIRECTIONAL REFLECTOR
- TEMPORARY CONCRETE BARRIER
- IMPACT ATTENUATOR
- STEADY BURNING LIGHTS AND DOUBLE VERTICAL PANELS
- TRAFFIC FLOW

NOTE:
SEE "STORM WATER POLLUTION PREVENTION PLANS" FOR TEMPORARY EROSION CONTROL.

FILE NAME =	USER NAME = laughlinr1	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	MAINTENANCE OF TRAFFIC STAGE 2			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
et:\pw\work\PWIDOT\LAUGHLINRL\0169540\8181STAGING2.dgn		DRAWN - TRF	REVISED -		325	114 (B-1)	MACOUPIN	57	21			
		CHECKED - RG	REVISED -		CONTRACT NO. 72646			ILLINOIS FED. AID PROJECT				
		DATE - 7/31/09	REVISED -		SCALE: 1"=20'	SHEET NO.	OF SHEETS	STA. 812+00	TO STA. 814+00			



SEQUENCE OF CONSTRUCTION - STAGE 3

STAGE 3 TRAFFIC
 SET UP TEMPORARY TRAFFIC CONTROL USING THESE PLANS IN CONJUNCTION WITH STANDARD 701321.

INSTALL TEMPORARY TRAFFIC SIGNALS AND LOOP DETECTORS AT LOCATIONS SHOWN IN THESE PLANS AND IN STANDARD 701321.

PLACE TEMPORARY CONCRETE BARRIER AND PAVEMENT MARKING IN ACCORDANCE WITH THESE PLANS AND STANDARD 701321.

REMOVE ANY CONFLICTING PAVEMENT MARKINGS.

CHANNEL ALL TRAFFIC TO THE SOUTH SIDE OF IL ROUTE 16.

WREN ROAD WILL BE CLOSED DURING STAGE 3 USING STANDARD BLR 21.

STAGE 3 CONSTRUCTION
 MODIFY TEMPORARY SOIL RETENTION SYSTEM AS NEEDED.

REMOVE AND REPLACE NORTH PORTION OF BOX CULVERT.

REMOVE AND REPLACE PAVEMENT ON NORTH SIDE OF IL ROUTE 16.

COMPLETE EARTHWORK, DRAINAGE, RIPRAP, AND SEEDING ON NORTH SIDE OF IL ROUTE 16.

REMOVE TEMPORARY GUARDRAIL FROM NORTH SIDE OF IL ROUTE 16.

POST - STAGE TRAFFIC

REMOVE TEMPORARY TRAFFIC SIGNALS AND TEMPORARY CONCRETE BARRIER.

OPEN WREN ROAD TO TRAFFIC.

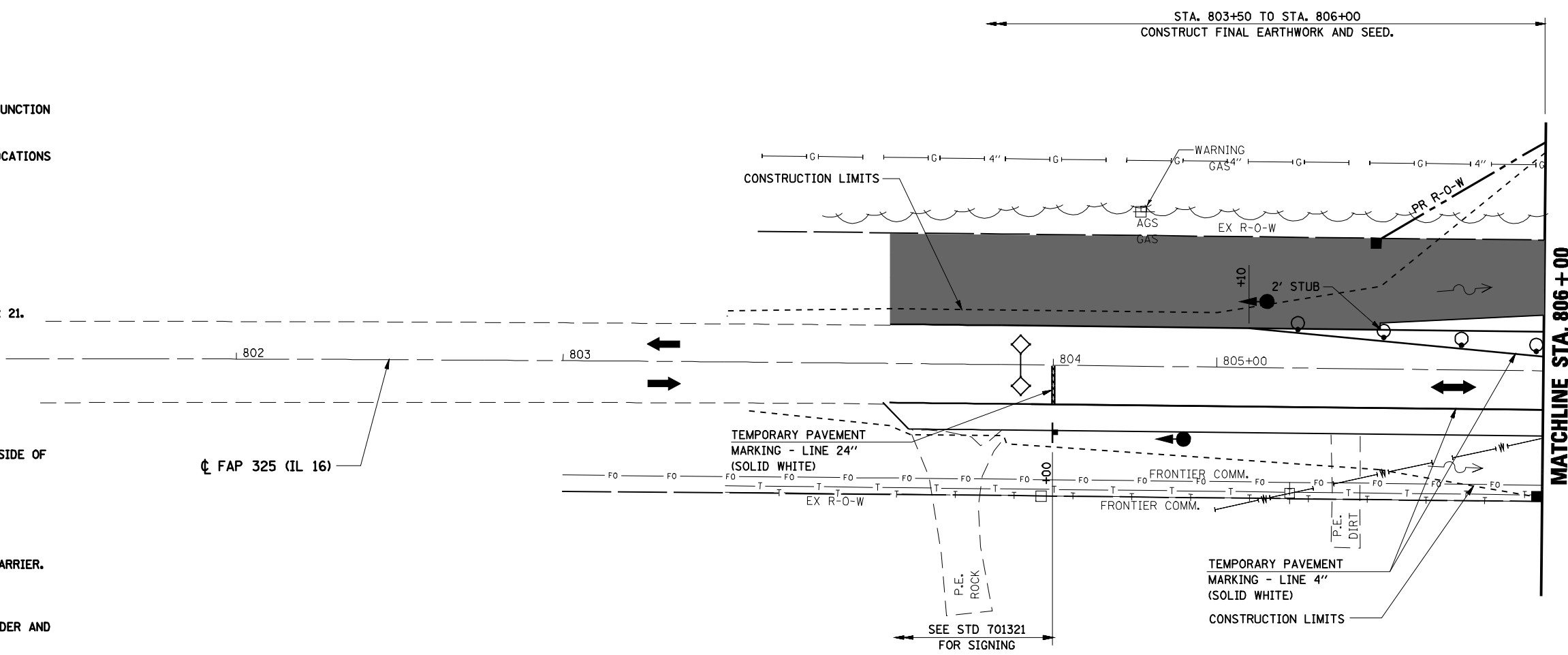
SHIFT TRAFFIC AS NECESSARY TO INSTALL HMA SURFACE ON SHOULDER AND PAVEMENT USING STANDARD 701306.

POST - STAGE CONSTRUCTION

FOLLOWING COMPLETION OF STAGE 3 CONSTRUCTION, INSTALL HMA LEVELING BINDER AND SURFACE COURSE ON PAVEMENT AND SHOULDER, INSTALL AGGREGATE SHOULDERS, COMPLETE ENTRANCES AND SIDE ROADS, INSTALL FINAL STRIPING, AND COMPLETE FINAL EARTHWORK AND SEEDING.

GENERAL STAGING NOTES

- CONTRACTOR SHALL MAINTAIN ACCESS TO PRIVATE ENTRANCES AT ALL TIMES.
- ACCESS MUST BE PROVIDED TO ALL ENTRANCES. NO SIGNALS WILL BE REQUIRED.
- THIS TRAFFIC CONTROL PLAN SHALL BE USED IN CONJUNCTION WITH THE REFERENCED STANDARDS AND AS DIRECTED BY THE ENGINEER.
- TEMPORARY PAVEMENT MARKING AND WORK ZONE PAVEMENT MARKING REMOVAL REQUIRED FOR TRAFFIC CONTROL STANDARDS WILL NOT BE PAID FOR SEPARATELY.



LEGEND

- WORK AREA
- SIGN
- TYPE III BARRICADE
- DRUM WITH STEADY BURNING LIGHT
- TRAFFIC SIGNAL
- TYPE C BIDIRECTIONAL REFLECTOR
- TEMPORARY CONCRETE BARRIER
- IMPACT ATTENUATOR
- STEADY BURNING LIGHTS AND DOUBLE VERTICAL PANELS
- TRAFFIC FLOW

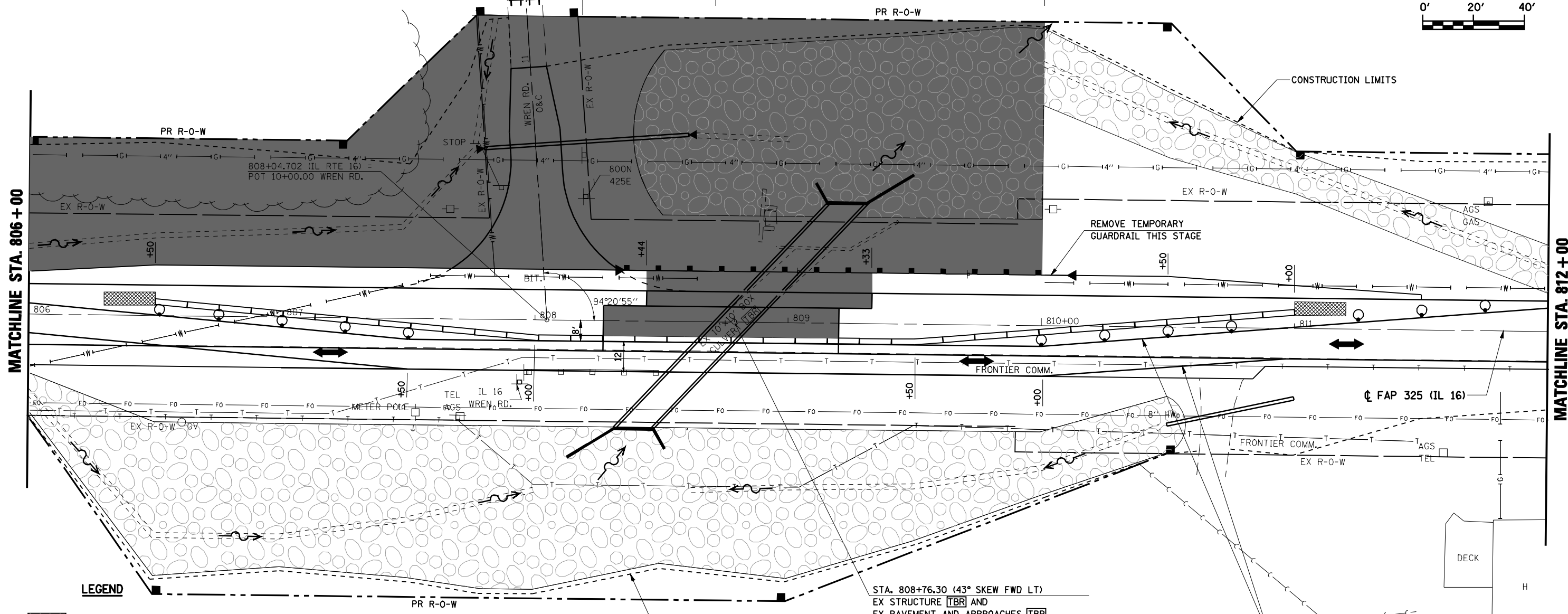
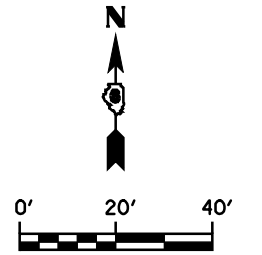
NOTE:

SEE "STORM WATER POLLUTION PREVENTION PLANS" FOR TEMPORARY EROSION CONTROL.

FILE NAME =	USER NAME = laughlinr1	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	MAINTENANCE OF TRAFFIC STAGE 3	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
es:\pwork\PWIDOT\LAUGHLINRL\0169540\8031STAGING3.dgn	DRAWN - TRF	REVISED -	325			114 (B-1)	MACOUPIN	57	22	
PLOT SCALE = 40.0000' / IN.	CHECKED - RG	REVISED -	CONTRACT NO. 72646							
PLOT DATE = Oct-21-2009 11:08:59AM	DATE - 7/31/09	REVISED -	ILLINOIS FED. AID PROJECT							
				SCALE: 1"=20'	SHEET NO. OF SHEETS	STA. 803+50 TO STA. 806+00				

STA. 806+00 TO STA. 808+70
 CLOSE WREN RD. USING STD BLR 21.
 CONSTRUCT WREN RD, PIPE CULVERT,
 END SECTIONS, FINAL EARTHWORK, SEED AND RIPRAP.

STA. 808+70 TO STA. 810+00
 REMOVE & REPLACE BOX CULVERT,
 PAVEMENT & HMA BASE COURSE 10".
 CONSTRUCT FINAL EARTHWORK, SEED & RIPRAP.
 (SEE CULVERT DETAILS)



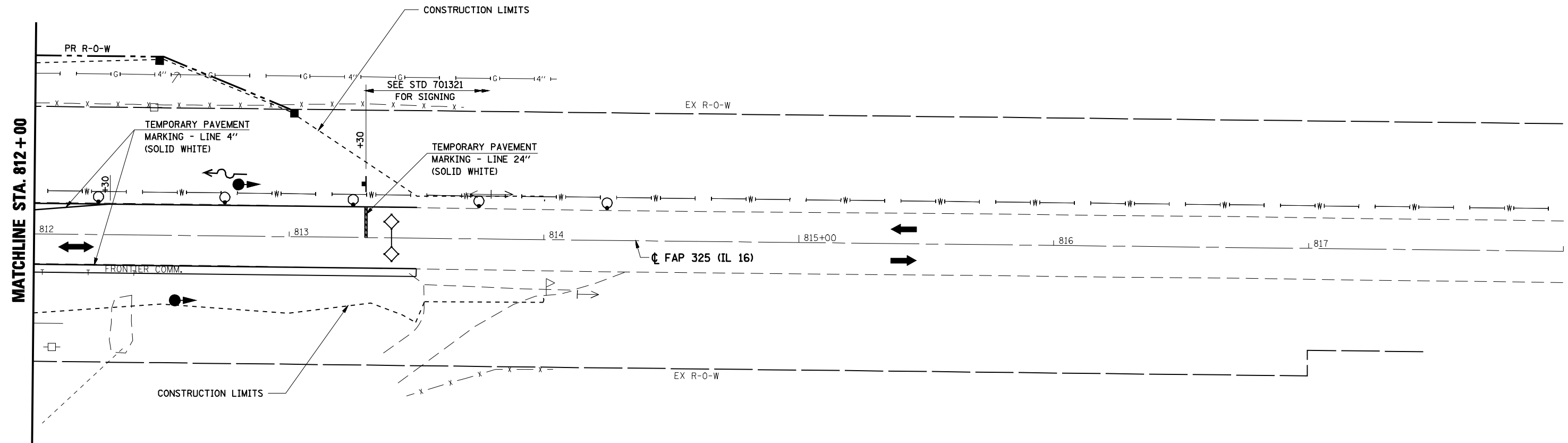
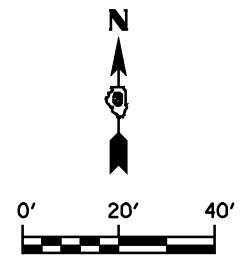
LEGEND

- WORK AREA
- SIGN
- TYPE III BARRICADE
- DRUM WITH STEADY BURNING LIGHT
- TRAFFIC SIGNAL
- TYPE C BIDIRECTIONAL REFLECTOR
- TEMPORARY CONCRETE BARRIER
- IMPACT ATTENUATOR
- STEADY BURNING LIGHTS AND DOUBLE VERTICAL PANELS
- TRAFFIC FLOW

STA. 808+76.30 (43° SKEW FWD LT)
 EX STRUCTURE [TBR] AND
 EX PAVEMENT AND APPROACHES [TBR]
 PR 10' X 10' RC BOX CULVERT (SEE DETAILS)
 PR GRANULAR BACKFILL
 PR HMA BASE COURSE 10"

NOTE:
 SEE "STORM WATER POLLUTION
 PREVENTION PLANS" FOR TEMPORARY
 EROSION CONTROL.

FILE NAME =	USER NAME = laughlinr1	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	MAINTENANCE OF TRAFFIC STAGE 3	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
et\pwork\PWIDOT\LAUGHLINRL\0169540\B01STAGING3.dgn		DRAWN - TRF	REVISED -			325	114 (B-1)	MACOUPIN	57	23	
PLOT SCALE = 40.0000' / IN.		CHECKED - RG	REVISED -			CONTRACT NO. 72646					
PLOT DATE = Oct-21-2009 11:11:01AM		DATE - 7/31/09	REVISED -			ILLINOIS FED. AID PROJECT					
				SCALE: 1"=20'	SHEET NO. OF SHEETS	STA. 806+00 TO STA. 812+00					



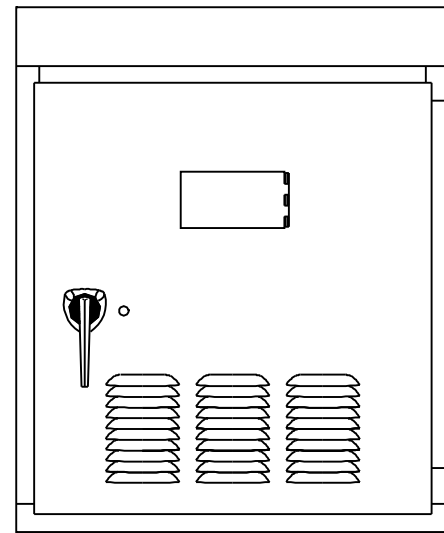
LEGEND

- WORK AREA
- SIGN
- TYPE III BARRICADE
- DRUM WITH STEADY BURNING LIGHT
- TRAFFIC SIGNAL
- TYPE C BIDIRECTIONAL REFLECTOR
- TEMPORARY CONCRETE BARRIER
- IMPACT ATTENUATOR
- STEADY BURNING LIGHTS AND DOUBLE VERTICAL PANELS
- TRAFFIC FLOW

NOTE:

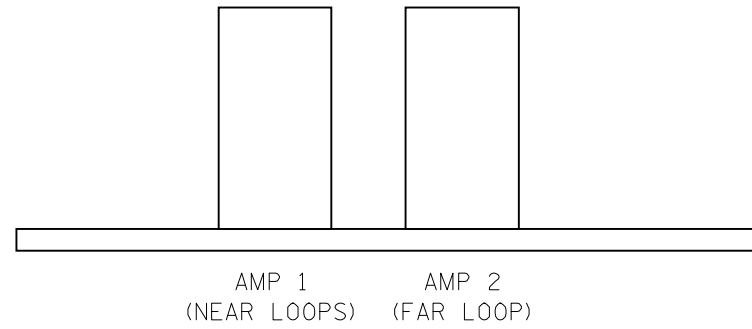
SEE "STORM WATER POLLUTION PREVENTION PLANS" FOR TEMPORARY EROSION CONTROL.

FILE NAME =	USER NAME = laughlinr1	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	MAINTENANCE OF TRAFFIC STAGE 3			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
et:\pwork\PWIDOT\LAUGHLINRL\0169540\812STAGING3.dgn		DRAWN - TRF	REVISED -		325	114 (B-1)	MACOUPIN	57	24			
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PLOT DATE = Oct-21-2009 11:11:04AM		DATE - 7/31/09	REVISED -		SCALE: 1"=20'	SHEET NO.	OF SHEETS	STA. 812+00	TO STA. 814+00			



Temporary Controller Cabinet

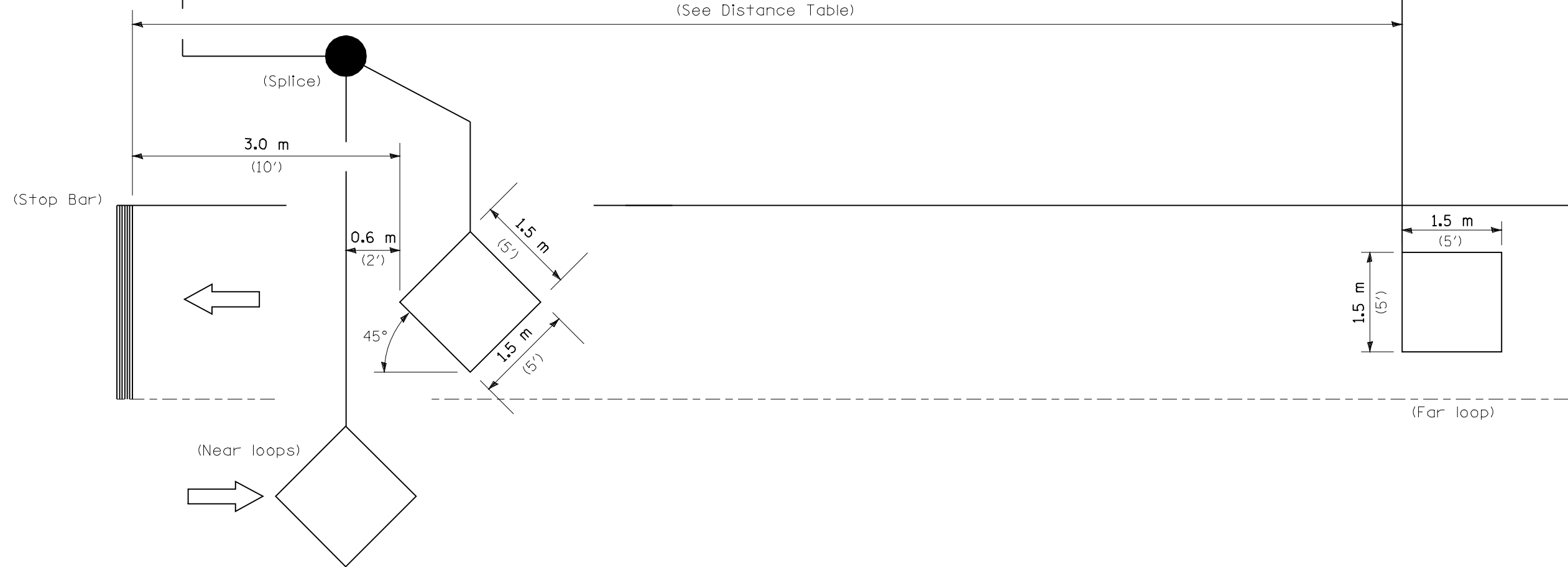
DETECTOR AMPLIFIER NOTES



AMP 1: DELAY = 8 SECONDS
 DELAY SHALL BE INHIBITED DURING GREEN

AMP 2: NO DELAY

FAR LOOP DISTANCE TABLE	
ADVISORY SPEED (MPH)	DISTANCE FROM STOP BAR (FT.)
30 OR LESS	220
35	260
40	300
45	330
50	370
55	400



NOTE: All loops centered in lane.

INDUCTION LOOP DETECTOR

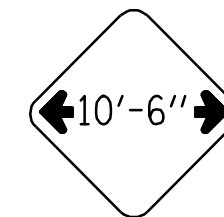
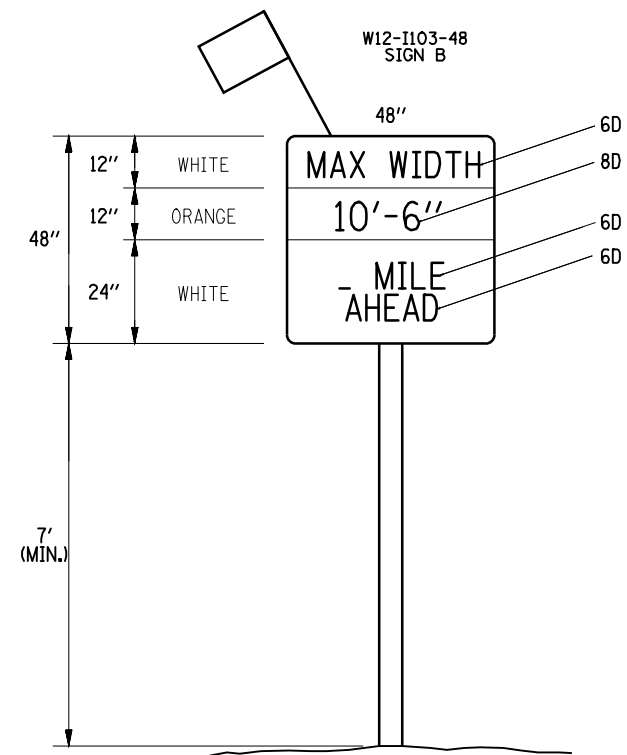
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e:\pwork\work\PWIDOT\LAUGHLINRL\0169540\Loop Detail.dgn		DRAWN -	REVISED -
	PLOT SCALE = 100.0000' / IN.	CHECKED -	REVISED -
	PLOT DATE = Oct-21-2009 11:11:05AM	DATE -	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

TEMPORARY BRIDGE TRAFFIC SIGNAL
 LOOP PLACEMENT DETAIL SHEET

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
325	114 (B-1)	MACOUPIN	57	25
CONTRACT NO. 72646				
ILLINOIS FED. AID PROJECT				



W12-1102(0)-48
SIGN A

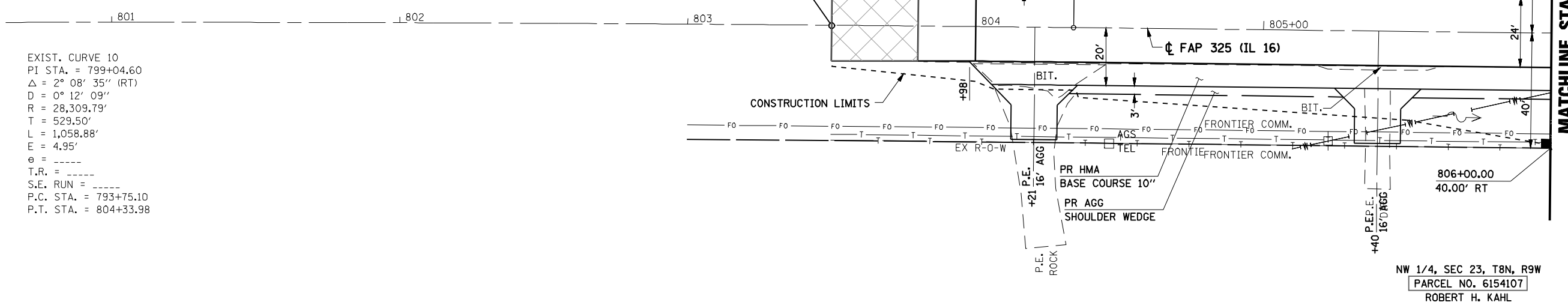
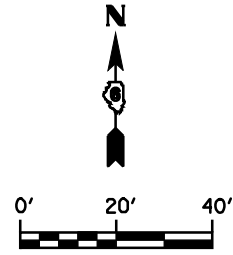
THESE SIGNS SHALL BE INSTALLED WITH FLAGS AND WILL BE PAID FOR AS PER LUMP SUM.

SIGNS SHALL BE PROVIDED BY THE CONTRACTOR AND INSTALLED AT LOCATIONS DETERMINED BY THE ENGINEER.

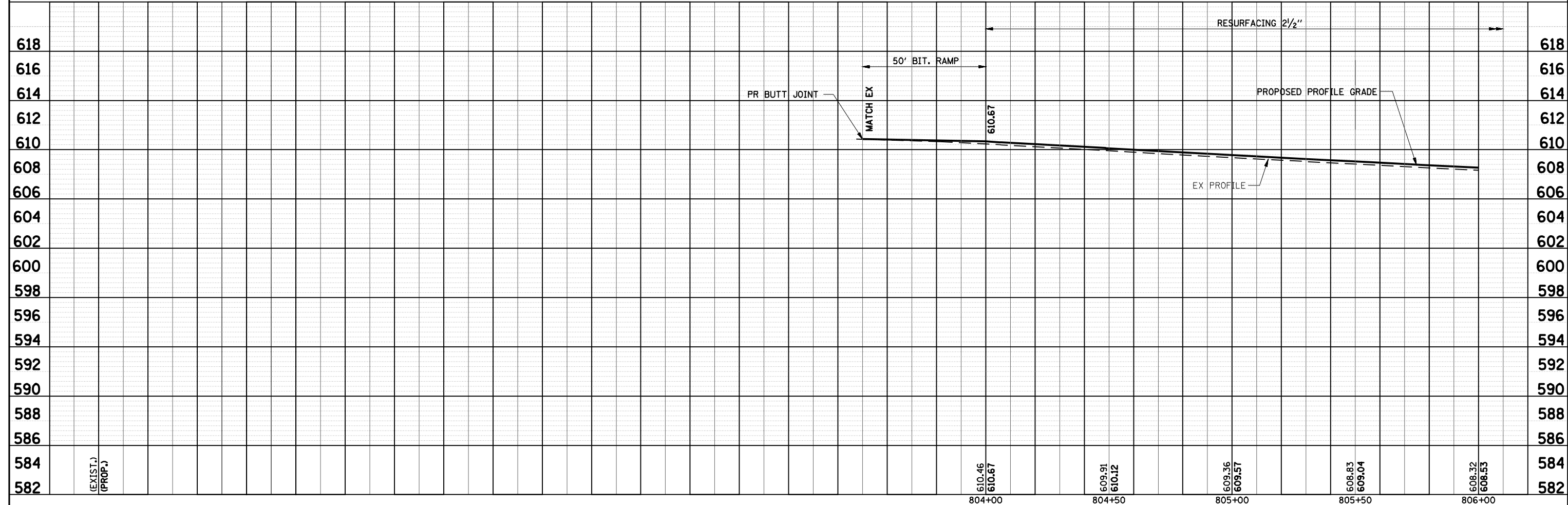
FILE NAME =	USER NAME = laughlinr1	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	WIDTH RESTRICTION SIGNING DETAIL				F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
e:\pwork\pwork\LAUGHLINRL\0169540\w	dthrests1grndgn	DRAWN -	REVISED -						325	114 (B-1)	MACOUPIN	57	26
	PLOT SCALE = 100.0000 ' / IN.	CHECKED -	REVISED -		CONTRACT NO. 72646								
	PLOT DATE = Oct-21-2009 11:11:07AM	DATE -	REVISED -		ILLINOIS FED. AID PROJECT								
					SCALE:	SHEET NO.	OF	SHEETS	STA.	TO STA.			

PLAN	REVIEWED	DATE
	PLOTTED	
	ALIGNED	
	CHECKED	
	FILED	
	CADD FILE NAME	
	NO.	
	NOTE BOOK	
	NO.	

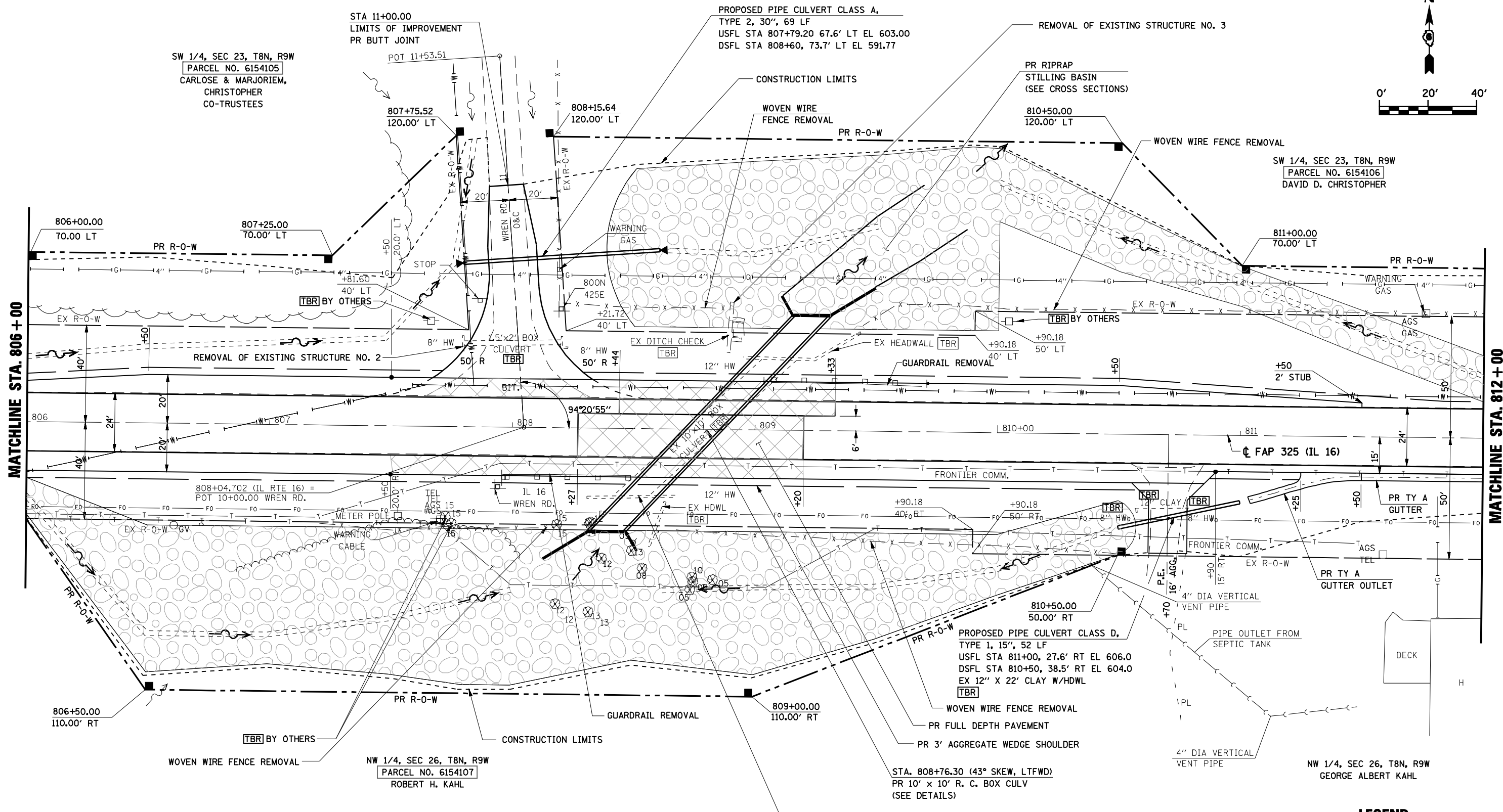
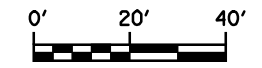
PROFILE	REVIEWED	DATE
	PLOTTED	
	GRADES CHECKED	
	STRUCTURE NOTATIONS CHKD	
	NO.	
	NOTE BOOK	
	NO.	



EXIST. CURVE 10
 PI STA. = 799+04.60
 $\Delta = 2^\circ 08' 35''$ (RT)
 $D = 0^\circ 12' 09''$
 $R = 28,309.79'$
 $T = 529.50'$
 $L = 1,058.88'$
 $E = 4.95'$
 $\theta = \text{---}$
 $T.R. = \text{---}$
 $S.E. RUN = \text{---}$
 $P.C. STA. = 793+75.10$
 $P.T. STA. = 804+33.98$



FILE NAME =	USER NAME = #USER#	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	ROADWAY PLAN AND PROFILE			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
*FILE#		DRAWN - TRF	REVISED -		SCALE: 1"=20'	SHEET NO.	OF SHEETS	STA. 803+50 TO STA. 806+00	325	114 (B-1)	MACOUPIN	57	27
		CHECKED - RG	REVISED -								CONTRACT NO. 72646		
		DATE - 7/31/09	REVISED -								ILLINOIS FED. AID PROJECT		



NOTES:

1. THE CONTRACTOR SHALL STAKE OUT THE CONSTRUCTION LIMITS PRIOR TO ANY TREE REMOVAL. THE ENGINEER WILL THEN IDENTIFY ANY TREES TO BE SAVED. NO TREES SHALL BE REMOVED UNTIL THE ENGINEER HAS IDENTIFIED ALL TREES TO BE SAVED.
2. MAIL BOXES WITHIN CONSTRUCTION LIMITS SHALL BE REMOVED AND RELOCATED.

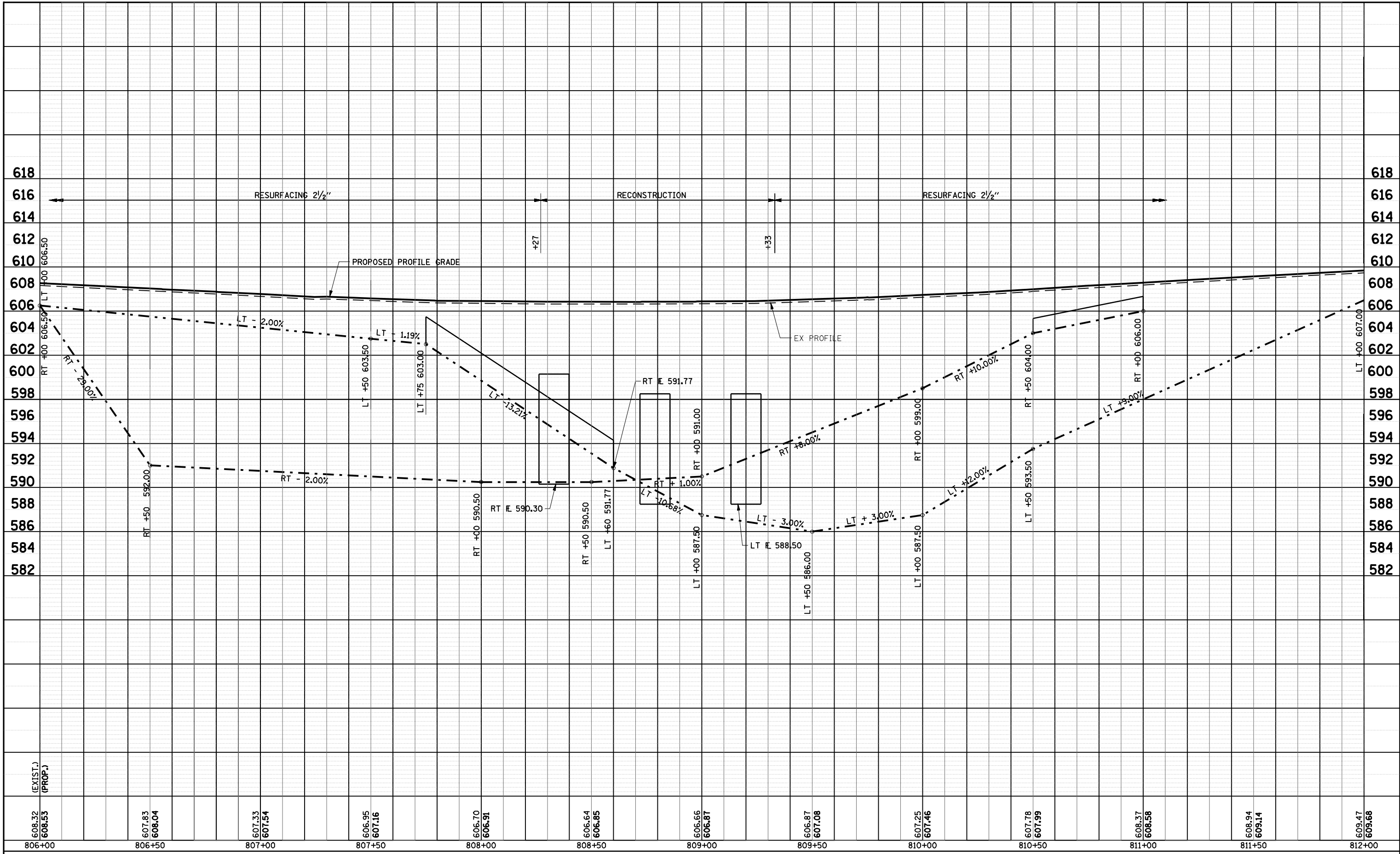
LEGEND

- BITUMINOUS / CONCRETE REMOVAL
- TO BE REMOVED
- TO BE ADJUSTED
- TO BE RELOCATED
- TREE REMOVAL

FILE NAME = #FILE#	USER NAME = #USER#	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	ROADWAY PLAN			F.A.P. RTE. 325	SECTION 114 (B-1)	COUNTY MACOUPIN	TOTAL SHEETS 57	SHEET NO. 28
	PLOT SCALE = #SCALE#	DRAWN - TRF	REVISED -		SCALE: 1"=20'	SHEET NO.	OF SHEETS	STA. 806+00	TO STA. 812+00	CONTRACT NO. 72646		
	PLOT DATE = #DATE#	CHECKED - RG	REVISED -		ILLINOIS FED. AID PROJECT							
		DATE - 7/31/09	REVISED -									

PLAN	SUBMITTED	BY	DATE
	PLOTTED		
	GRADES CHECKED		
	STRUCTURE NOTATIONS OK'D		
	NO.		

PROFILE	SUBMITTED	BY	DATE
	PLOTTED		
	GRADES CHECKED		
	STRUCTURE NOTATIONS OK'D		
	NO.		



FILE NAME =	USER NAME = laughlinr1	DESIGNED -	REVISED -
c:\pwork\pwidot\LAUGHLINRL\d0169540\5081PIInprF.dgn		DRAWN - TRF	REVISED -
		CHECKED - RC	REVISED -
		DATE - 7/31/09	REVISED -

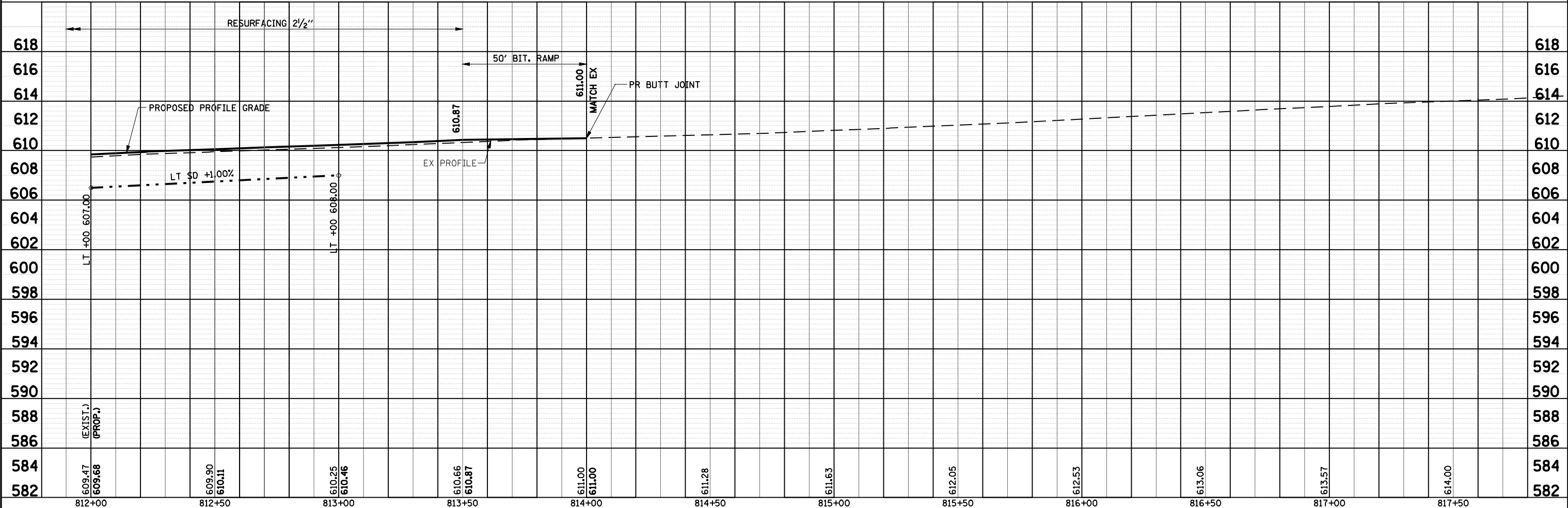
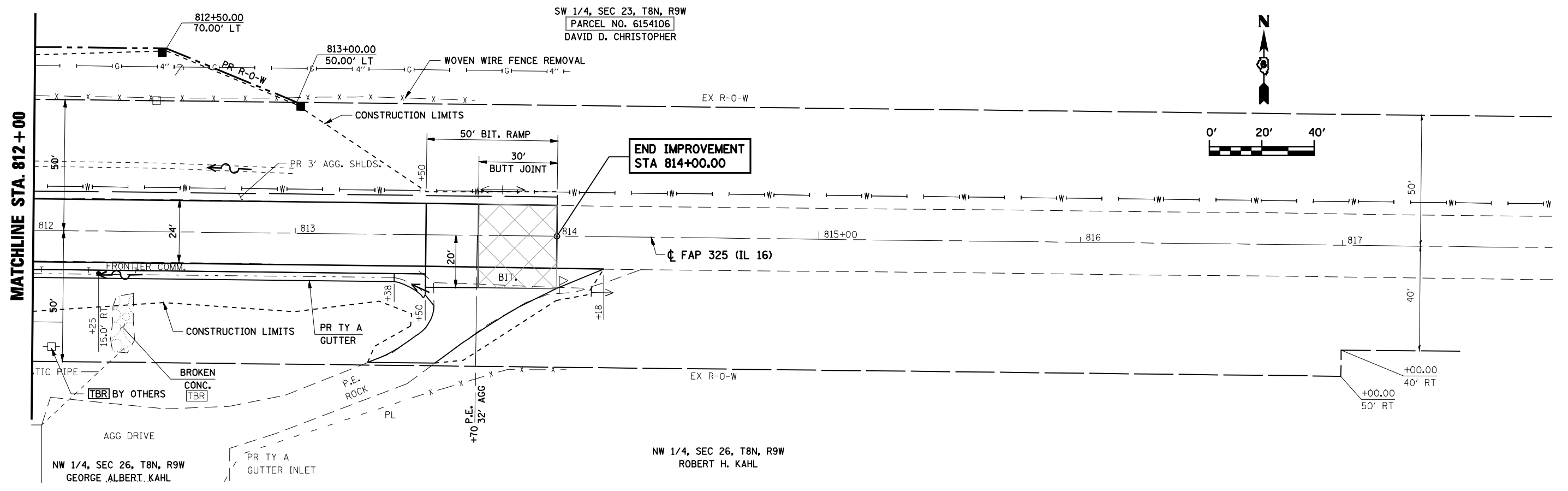
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

ROADWAY PROFILE			
SCALE: 1"=20'	SHEET NO.	OF SHEETS	STA. 803+50 TO STA. 806+00

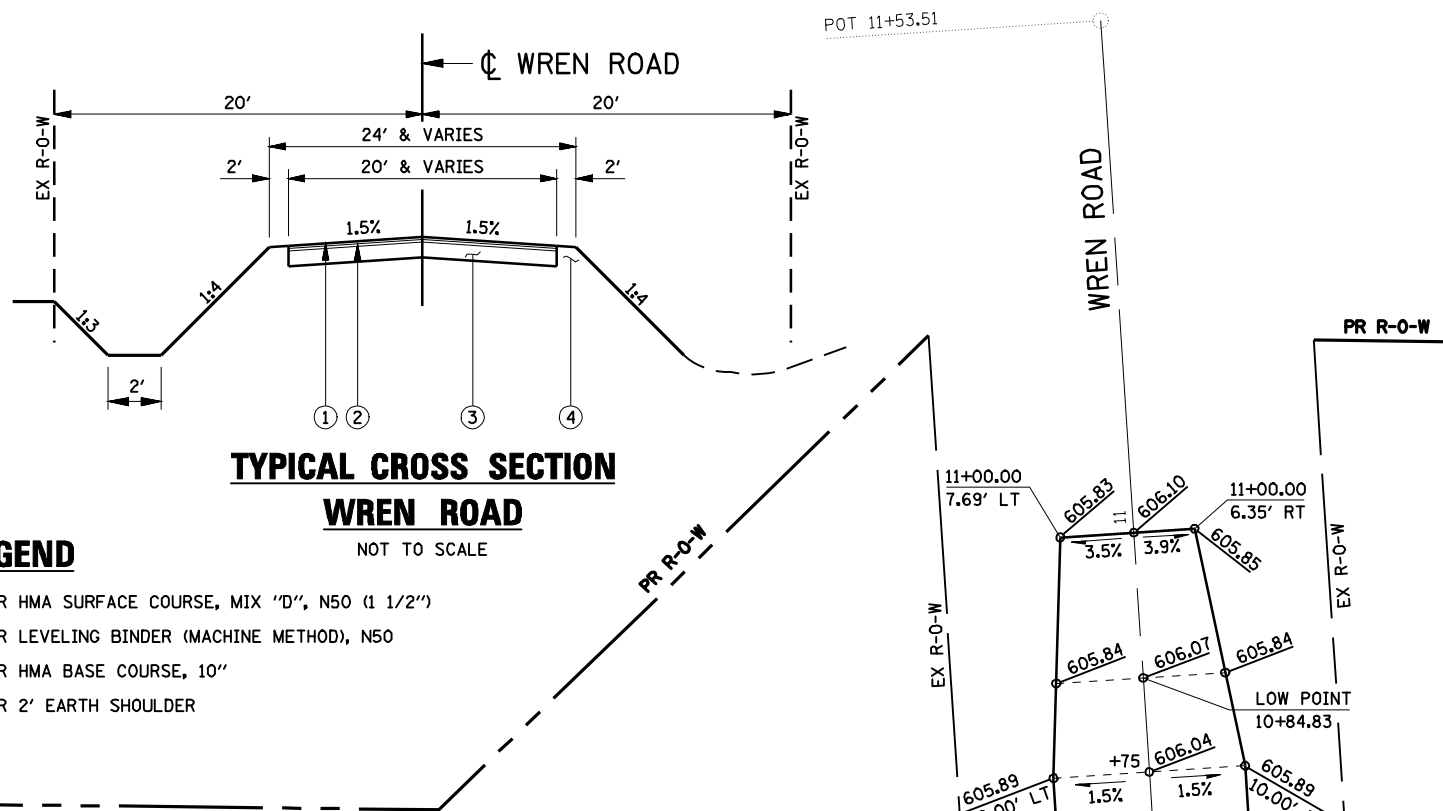
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
325	114 (B-1)	MACOUPIN	57	29
CONTRACT NO. 72646				
ILLINOIS FED. AID PROJECT				

PLAN	REVIEWED	DATE
	PLOTTED	
	ALIGNED	
	CHECKED	
	FILED	
	CADD FILE NAME	
	NO.	

PROFILE	REVIEWED	DATE
	PLOTTED	
	GRADES CHECKED	
	STRUCTURE NOTATIONS OK'D	
	NO.	



FILE NAME =	USER NAME = #USER#	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	ROADWAY PLAN AND PROFILE			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FILE#		DRAWN - TRF	REVISED -		325	114 (B-1)	MACOUPIN	57	30			
		CHECKED - RC	REVISED -		SCALE: 1"=20'			CONTRACT NO. 72646				
		DATE - 7/31/09	REVISED -		SHEET NO. OF SHEETS STA. 812+00 TO STA. 814+00			ILLINOIS FED. AID PROJECT				



**TYPICAL CROSS SECTION
WREN ROAD**
NOT TO SCALE

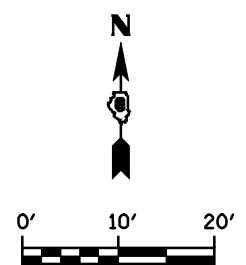
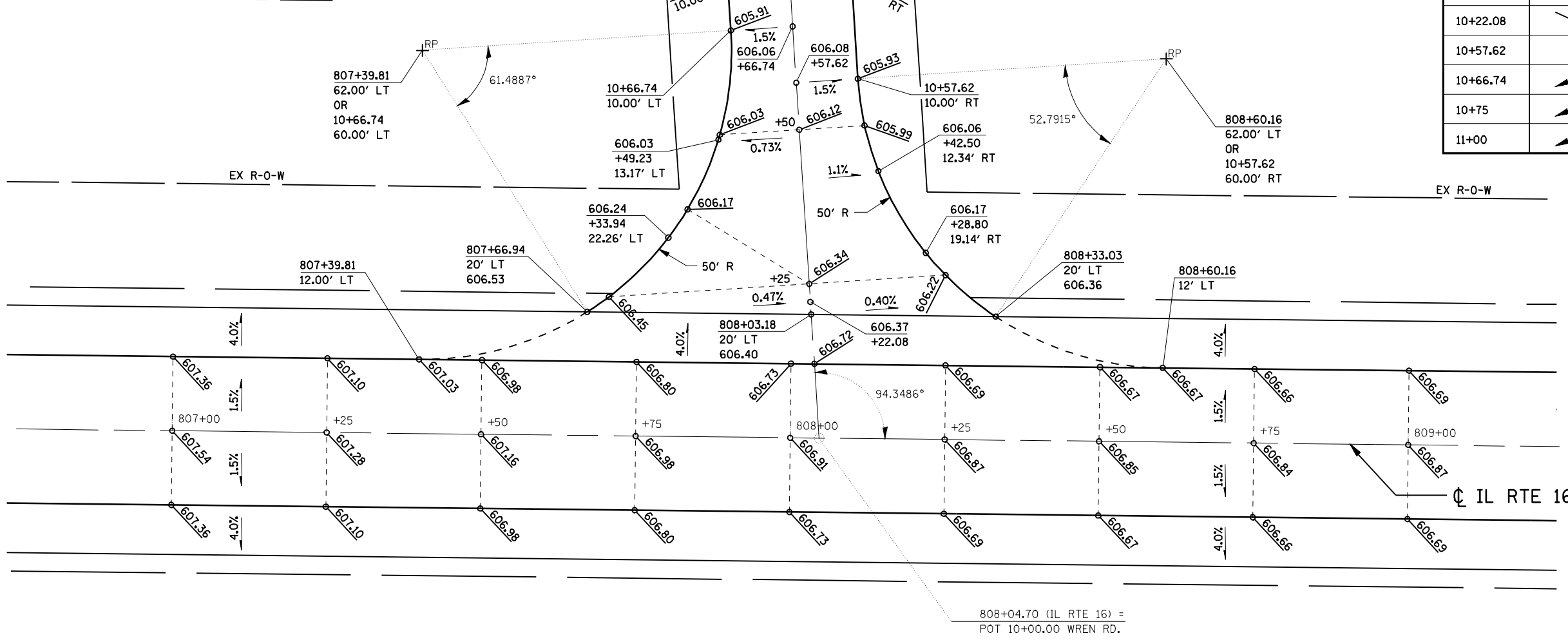
LEGEND

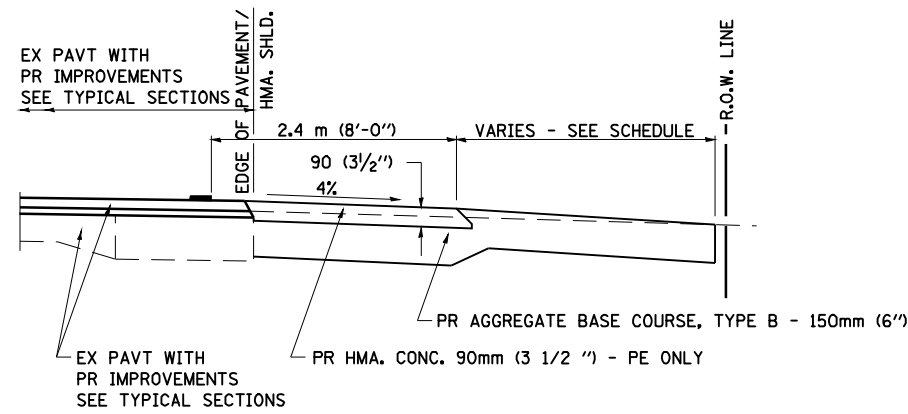
- ① PR HMA SURFACE COURSE, MIX "D", N50 (1 1/2")
- ② PR LEVELING BINDER (MACHINE METHOD), N50
- ③ PR HMA BASE COURSE, 10"
- ④ PR 2' EARTH SHOULDER

608	CL RTE 16 STA 10+00.00 ELEV 606.80	EOP STA. 10+12.03 ELEV 606.72	EOS STA 10+20.06 ELEV 606.40	VPC STA 10+25 ELEV 606.34	70' V.C. K = 45	VPT STA 10+95 ELEV 606.08
606						VPI STA. 10+60 ELEV 605.94
604						VPT STA 11+00 ELEV 606.10
	10+00	10+50	11+00			

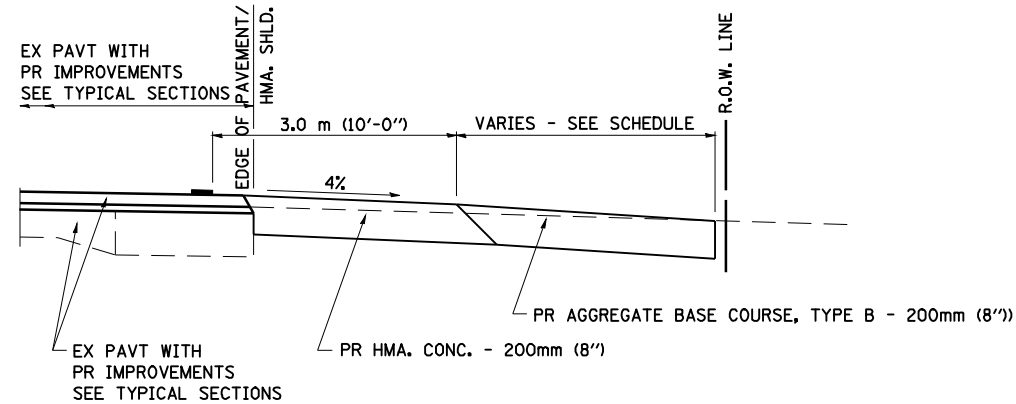
STA.	LT		RT	
	DIRECTION	SLOPE	DIRECTION	SLOPE
10+20.06	↘		↘	0.40%
10+22.08	↘	0.47%		
10+57.62			↘	1.50%
10+66.74	↘	1.50%		
10+75	↘	1.50%	↘	1.50%
11+00	↘	3.50%*	↘	3.90%*

* MATCH EXISTING

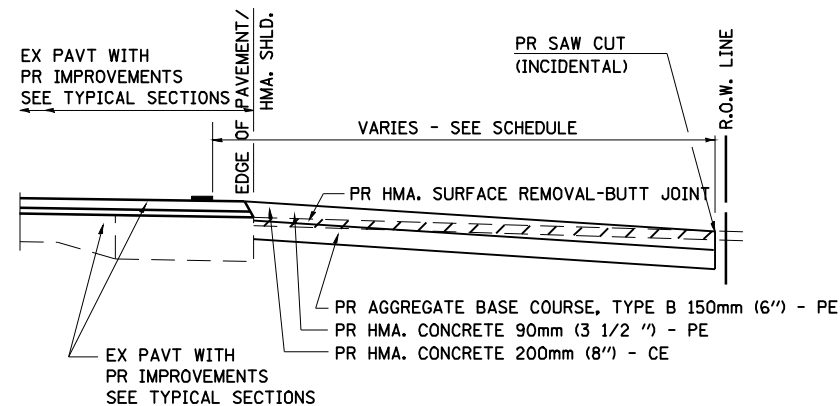




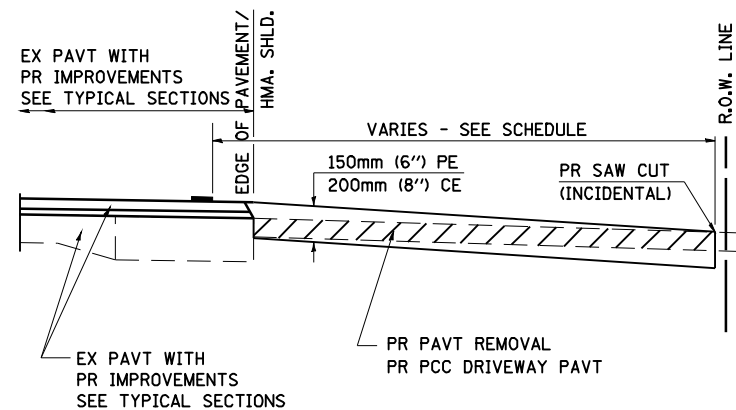
SECTION A-A FOR EX EARTH/AGGREGATE FE & PE



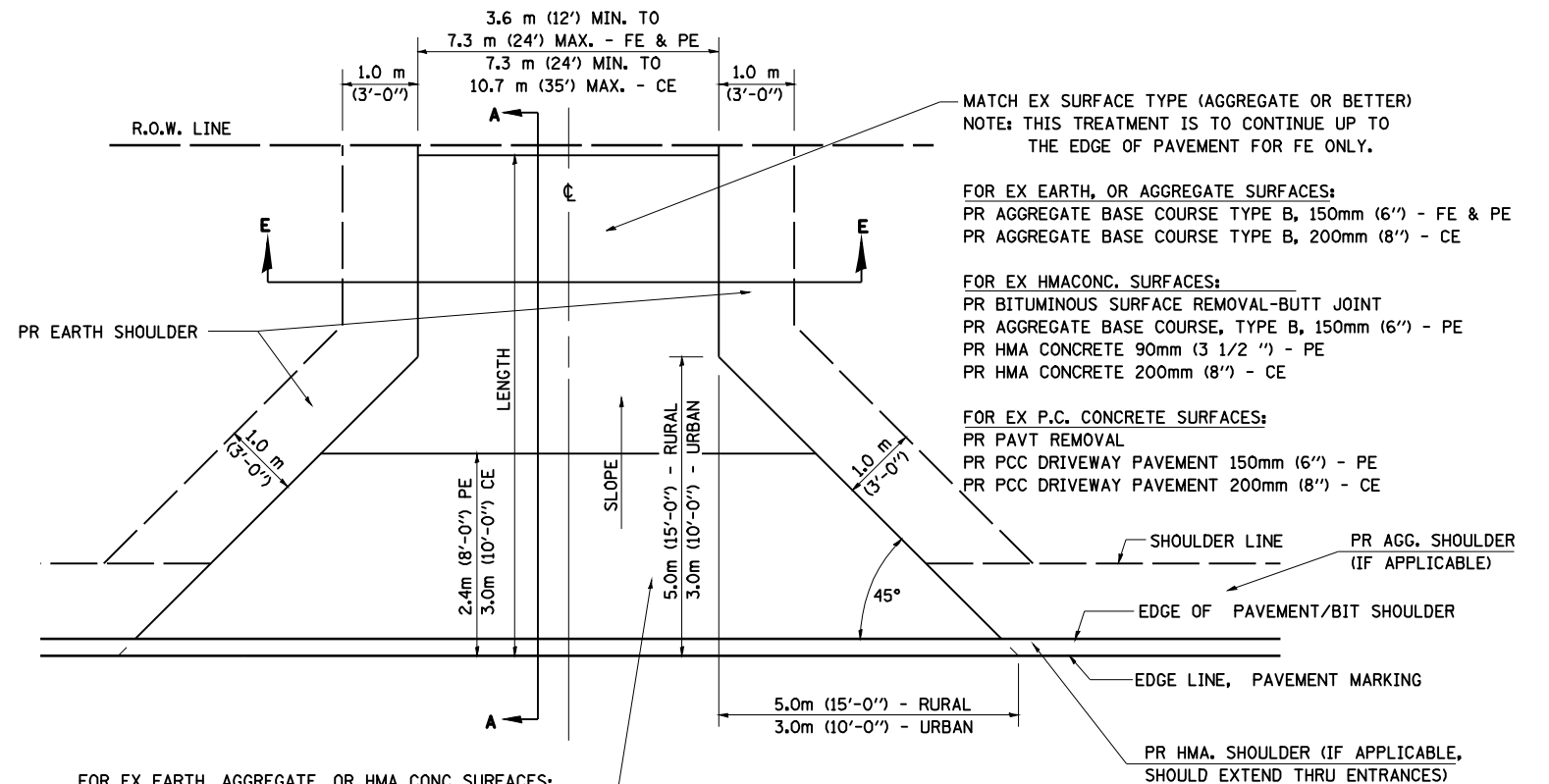
SECTION A-A FOR EX EARTH/AGGREGATE CE



SECTION A-A FOR EX HMA PE & CE



SECTION A-A FOR EX P.C. CONC. PE & CE



FOR EX EARTH, AGGREGATE, OR HMA CONC SURFACES:
 PR HMA SURFACE REMOVAL-BUTT JOINT (IF APPLICABLE)
 PR AGGREGATE BASE COURSE TYPE B 150mm (6'') - FE
 PR AGGREGATE BASE COURSE TYPE B, 150mm (6'') &
 PR HMA CONCRETE 90mm (3 1/2'') - PE
 PR HMA CONCRETE 200mm (8'') - CE

FOR P.C. CONCRETE SURFACES:
 PR PAVT REMOVAL
 PR PCC DRIVEWAY PAVT 150mm (6'') - PE
 PR PCC DRIVEWAY PAVT 200mm (8'') - CE

GENERAL NOTES:

THE RESIDENT ENGINEER WILL DETERMINE THE EXACT TYPE OF IMPROVEMENT TO BE COMPLETED FOR ALL ENTRANCES, SIDEROADS AND MAILBOX TURNOUTS ON THIS PROJECT.

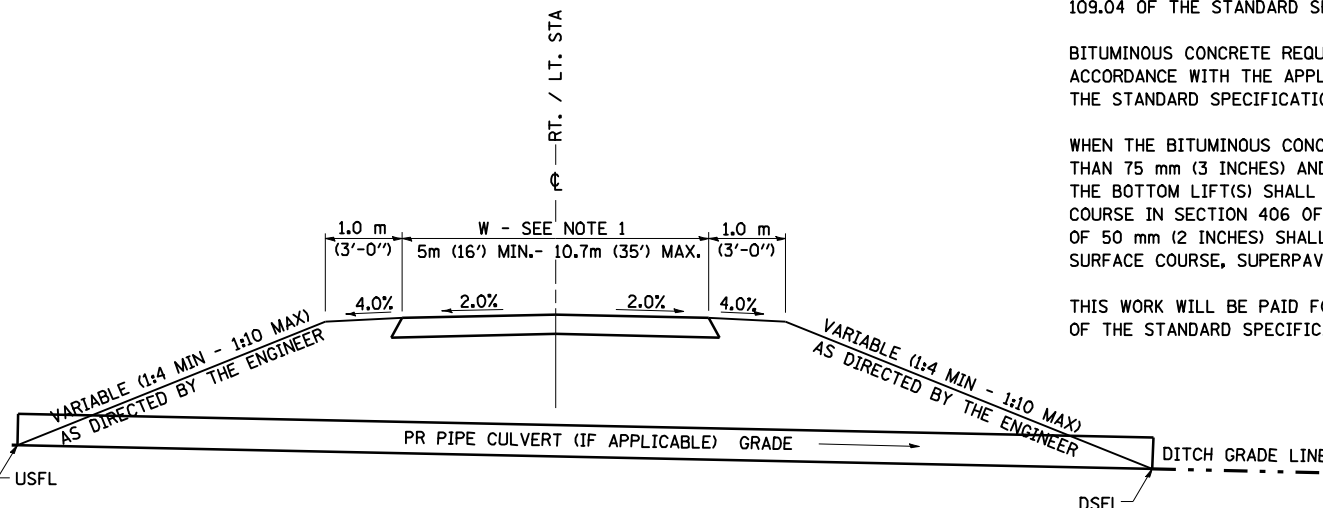
THE PLAN DETAILS AND SCHEDULES SHOULD BE USED AS A GUIDE FOR THE ENGINEER TO IMPLEMENT THE FINAL DESIGN. THE ENGINEER MAY DECIDE TO SALVAGE PORTIONS OF THE EXISTING ENTRANCE PAVEMENT STRUCTURE; THEREFORE, REDUCING PAY ITEM QUANTITIES. NO ADDITIONAL PAYMENT WILL BE ALLOWED FOR THIS REDUCTION IN QUANTITIES.

ANY WORK THE ENGINEER REQUIRES WHICH IS NOT COVERED BY A PAY ITEM CONTAINED IN THE PLANS WILL BE PAID FOR IN ACCORDANCE WITH ARTICLE 109.04 OF THE STANDARD SPECIFICATIONS.

BITUMINOUS CONCRETE REQUIRED TO CONSTRUCT THE ENTRANCES SHALL BE IN ACCORDANCE WITH THE APPLICABLE PORTIONS OF SECTION 406 AND 408 OF THE STANDARD SPECIFICATIONS AND AS DIRECTED BY THE ENGINEER.

WHEN THE BITUMINOUS CONCRETE PROPOSED FOR THE IMPROVEMENT IS THICKER THAN 75 mm (3 INCHES) AND REQUIRE PLACEMENT IN MORE THAN ONE LIFT. THE BOTTOM LIFT(S) SHALL MEET THE REQUIREMENTS OF BITUMINOUS BASE COURSE IN SECTION 406 OF THE STANDARD SPECIFICATIONS AND THE TOP LIFT OF 50 mm (2 INCHES) SHALL MEET THE REQUIREMENTS OF BITUMINOUS CONCRETE SURFACE COURSE, SUPERPAVE.

THIS WORK WILL BE PAID FOR IN ACCORDANCE WITH SECTIONS 351, 358, 408, 423 AND 440 OF THE STANDARD SPECIFICATIONS.



SECTION E-E ENTRANCE TYPICAL SECTION

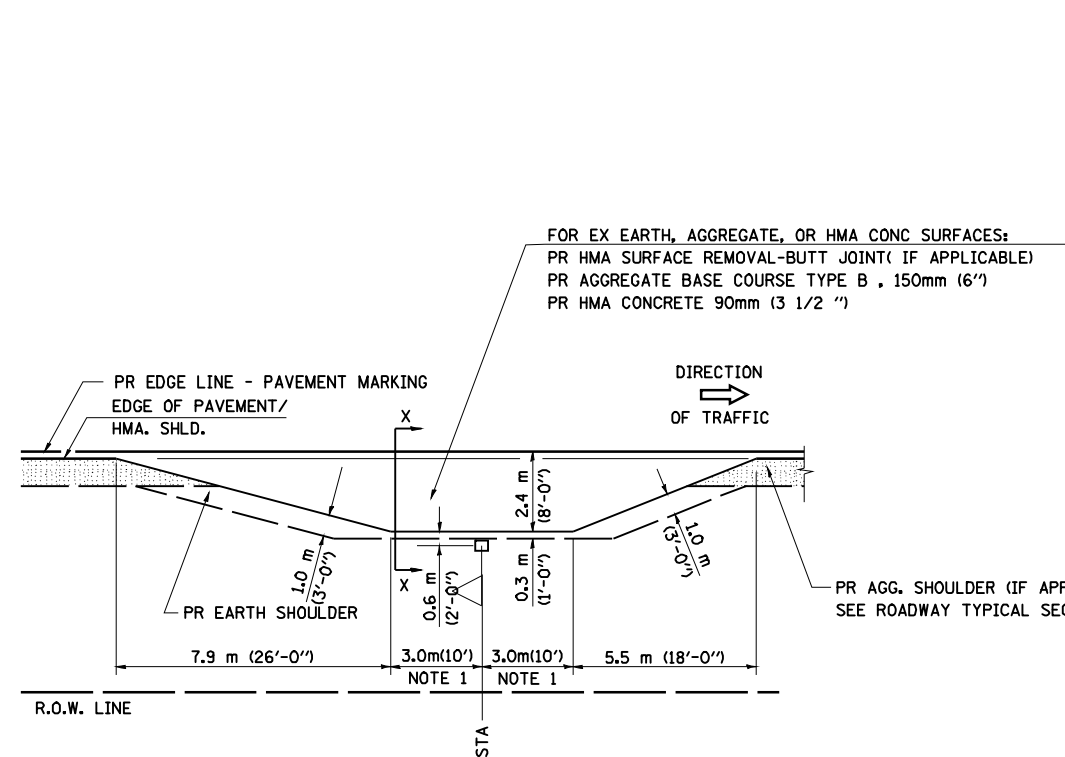
NOTE 1: WIDTH OF ENTRANCE MAY BE INCREASED AT THE PIPE CULVERT DUE TO THE DITCHLINE BEING LOCATED IN THE ENTRANCE FLARE AREA.

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

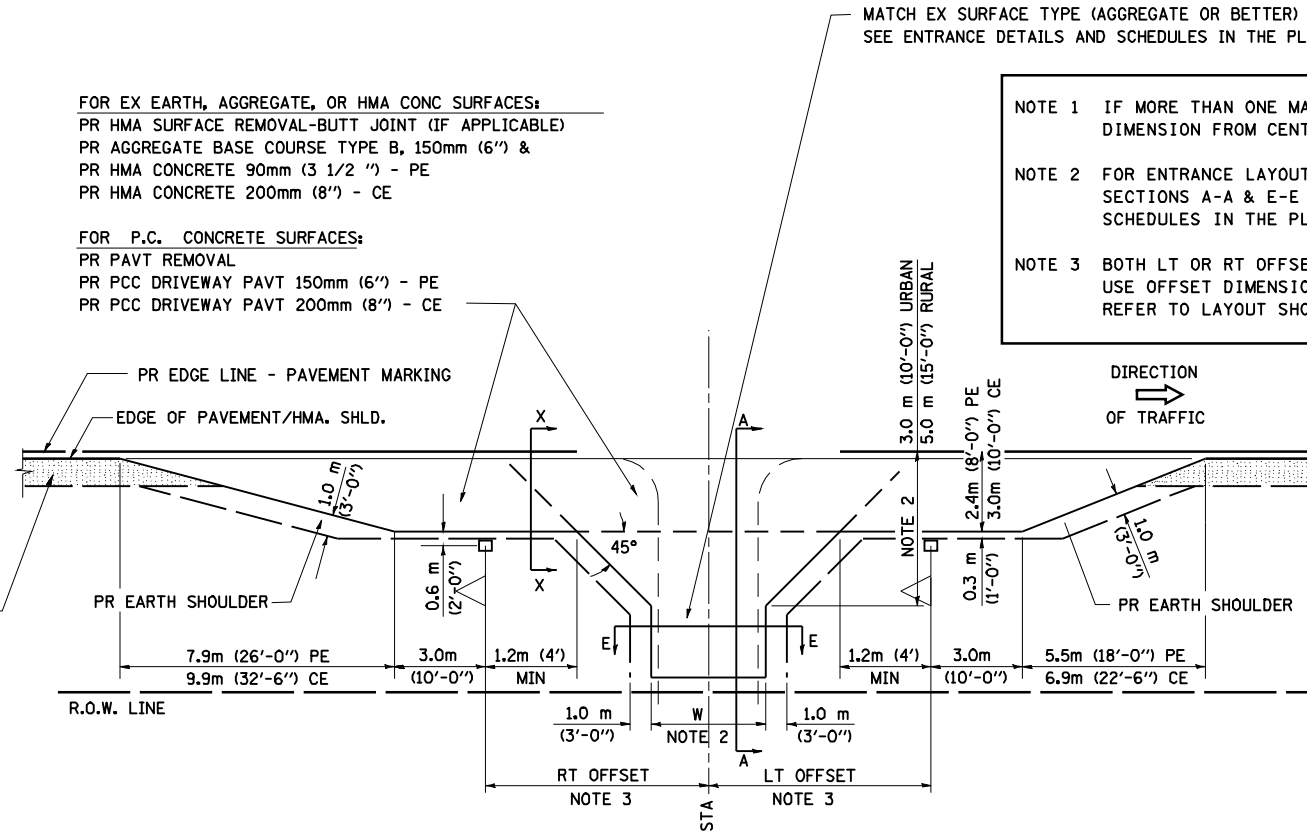
2/19/03

FILE NAME = #FILEL#	USER NAME = #USER#	DESIGNED - 2/19/03	REVISED - 2/19/03	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DISTRICT SIX DETAILS FOR RURAL / URBAN ENTRANCE & MAILBOX TURNOUT W / O CONCRETE GUTTER	F.A.P. RTE. 325	SECTION 114 (B-1)	COUNTY MACOUPIN	TOTAL SHEETS 57	SHEET NO. 31A	
	PLOT SCALE = #SCALE#	DRAWN - 4/01/04	REVISED - 4/01/04			SCALE:	SHEET NO.	OF SHEETS	STA.	TO STA.	ILLINOIS FED. AID PROJECT
	PLOT DATE = #DATE#	CHECKED - 8/01/07	REVISED - 8/01/07								
		DATE -	REVISED -								

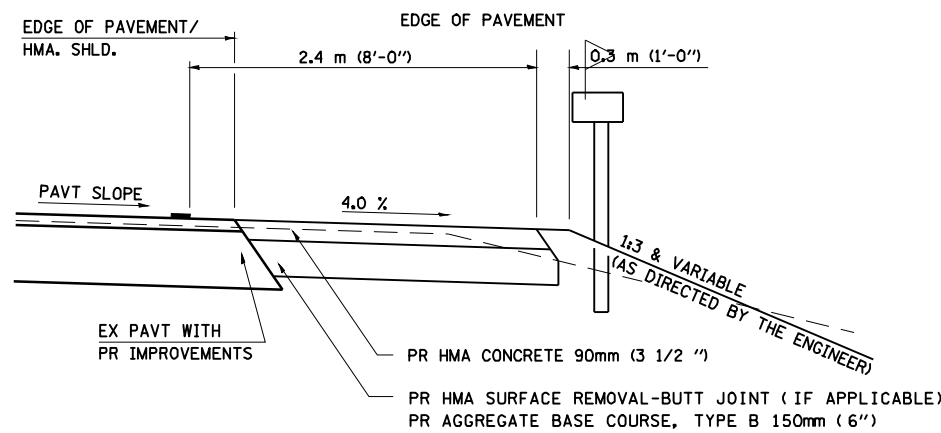
DETAILS OF MAILBOX TURNOUTS



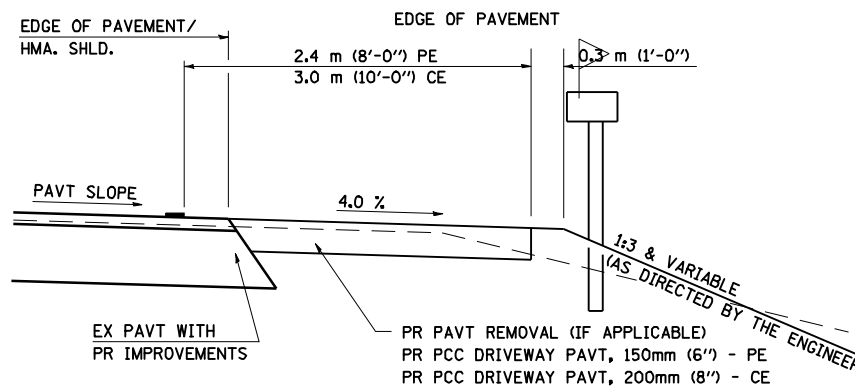
PLAN - MAILBOX TURNOUTS



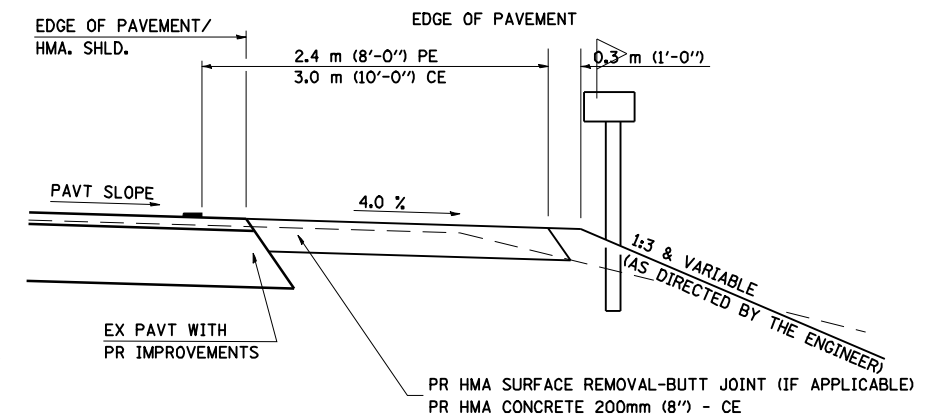
PLAN - COMBINED MAILBOX TURNOUT WITH TRAILING OR LEADING ENTRANCE



**SECTION X-X THRU MAILBOX TURNOUT
 ALSO APPLIES TO MAILBOX TURNOUTS COMBINED WITH
 EX EARTH, AGGREGATE, OR HMA PE & FE**



**SECTION X-X THRU MAILBOX TURNOUT
 COMBINED WITH EX CONC PE OR CE**



**SECTION X-X THRU MAILBOX TURNOUT
 COMBINED WITH EX EARTH, AGGREGATE, OR HMA CE**

FILE NAME =	USER NAME = #USER#	DESIGNED -	REVISED - 2/19/03
#FILE#		DRAWN -	REVISED - 4/01/04
	PLOT SCALE = #SCALE#	CHECKED -	REVISED - 8/01/07
	PLOT DATE = #DATE#	DATE -	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**DISTRICT SIX DETAILS FOR RURAL / URBAN ENTRANCE
 & MAILBOX TURNOUT W / O CONCRETE GUTTER**

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
325	114 (B-1)	MACOUPIN	57	31B
CONTRACT NO. 72646				
ILLINOIS FED. AID PROJECT				

ENTRANCE / SIDEROAD IMPROVEMENT SCHEDULE																	
LOCATION	TYPE OF ENTRANCE	EX MATERIAL TYPE	WIDTH	RT OFFSET	LT OFFSET	LENGTH (FROM EDGE OF PVT/ HMA SHLD TO LIMITS OF IMPROVEMENT)	PR HMA. CONC. THICKNESS	HMA. SURF. REM. - BUTT JOINT	PAVEMENT REMOVAL	PREP OF BASE	AGG. BASE REPAIR	AGGREGATE BASE COURSE TY - B	BIT (P. C.)	AGG (P. C.)	INCIDENTAL HMA. SURF.	P. C. C. DRIVEWAY PAVEMENT 6"	P. C. C. DRIVEWAY PAVEMENT 8"
(LT / RT) (STA) (+)	(FE / PE / CE / MB) (RURAL)	(EARTH / AGG. / HMA. / P. C. C.)	FOOT	FOOT	FOOT	FOOT	INCH	SQ. YD.	SQ. YD.	SQ. YD.	TON	TON	TON	TON	TON	SQ. YD.	SQ. YD.
RT STA. 804+21	P. E.	AGG	16	39		19					35						14
RT STA. 805+40	P. E.	AGG	16	39		19					6						14
RT STA. 810+70	P. E.	AGG	16	49		29					6						20
RT STA. 813+70	P. E.	AGG	32	49		29					58						31
TOTAL =									105			79					

CONTRACTOR CERTIFICATION STATEMENT

This certification statement is part of the Storm Water Pollution Plan for the project described below in accordance with NPDES Permit No. ILR10 _____, issued by the Illinois Environmental Protection Agency on _____.

Route: FAP 325 Marked: IL 16
 Section: 114 (B-1) Project No.: NA
 County: Macoupin Contract No.: 72646

I certify under penalty of law that I understand the terms of the general National Pollutant Discharge Elimination System (NPDES) permit that authorizes the storm water discharges associated with industrial activity from the construction site identified as part of this certification.

Signature _____ Date _____
 Title _____
 Name of Firm _____
 Street Address _____
 City, State, Zip _____
 Phone Number _____

Note: The above boxed in area shall be filled out by the Contractor after the award of the contract to obtain the required NPDES Permit from IEPA. This is a requirement for this contract.

FILE NAME =	USER NAME = laughlinr1	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	STORM WATER POLLUTION PREVENTION PLAN	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
et:\pw\work\PWIDOT\LAUGHLINRL\0169540\5081SWPP.dgn	DRAWN -	REVISED -	325			114 (B-1)	MACOUPIN	57	32	
PLOT SCALE = 40.000' / IN.	CHECKED -	REVISED -	CONTRACT NO. 72646							
PLOT DATE = Oct-21-2009 11:11:21AM	DATE -	REVISED -	SCALE:			SHEET NO.	OF SHEETS	STA.	TO STA.	ILLINOIS FED. AID PROJECT

STORM WATER POLLUTION PREVENTION PLAN

ROUTE: FAP 325 MARKED: IL 16
 SECTION: 114 (B-1)
 COUNTY: MACOUPIN CONTRACT NO.: 72646

THIS PLAN HAS BEEN PREPARED TO COMPLY WITH THE PROVISION OF THE NPDES PERMIT NUMBER ILR10 ISSUED BY THE ILLINOIS ENVIRONMENTAL PROTECTION AGENCY FOR STORM WATER DISCHARGES FROM CONSTRUCTION SITE ACTIVITIES.

I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL GATHERED AND EVALUATED THE INFORMATION SUBMITTED. BASED ON MY INQUIRE OF THE PERSON OR PERSONS WHO MANAGE THE SYSTEM, OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION SUBMITTED, IS, TO THE BEST OF MY KNOWLEDGE AND BELIEF, TRUE, ACCURATE, AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS.

Royce D. Dill
 (DISTRICT ENGINEER)

10/2/07
 (DATE)

THE FOLLOWING PLAN WAS ESTABLISHED AND INCLUDED IN THESE PLANS TO DIRECT THE CONTRACTOR IN THE PLACEMENT OF TEMPORARY EROSION CONTROL SYSTEMS AND TO PROVIDE A STORM WATER POLLUTION PREVENTION PLAN FOR COMPLIANCE UNDER NPDES. THE CONTRACTOR SHALL ABIDE TO ALL REQUIREMENTS WITHIN THIS PLAN AS PART OF THE CONTRACT.

THE PURPOSE OF THIS PLAN IS TO PREVENT / MINIMIZE SILTATION WITHIN THE CONSTRUCTION ZONE AND TO ELIMINATE SEDIMENTS FROM ENTERING AND LEAVING THE CONSTRUCTION ZONE BY UTILIZING PROPER TEMPORARY EROSION CONTROL SYSTEMS AND PROVIDING GROUND COVER WITHIN A REASONABLE TIME.

CERTAIN ITEMS, AS SHOWN IN THIS PLAN AND REFERENCED BY THE LEGEND, SHALL BE PLACED BY THE CONTRACTOR AT THE BEGINNING OF CONSTRUCTION. OTHER ITEMS SHALL BE PLACED BY THE CONTRACTOR AS DIRECTED BY THE ENGINEER ON A CASE BY CASE SITUATION RESULTING FROM THE CONTRACTOR'S SEQUENCE OF ACTIVITIES, TIME OF THE YEAR, AND EXPECTED WEATHER CONDITIONS.

THE CONTRACTOR SHALL PLACE PERMANENT EROSION CONTROL SYSTEMS AND SEEDING WITHIN A REASONABLE AMOUNT OF TIME; THEREFORE, REDUCING THE AMOUNT OF AREA BEING OPEN TO THE POSSIBILITY OF EROSION AND REDUCING THE AMOUNT OF TEMPORARY EROSION CONTROL SYSTEMS AND TEMPORARY SEEDING. THE RESIDENT ENGINEER WILL DETERMINE IF TEMPORARY EROSION CONTROL SYSTEMS SHOWN IN THE PLAN CAN BE DELETED, THE SIZE OF THE PROPOSED DITCH CHECKS, THE PROPER METHOD OF INSTALLATION, AND IF ANY ADDITIONAL TEMPORARY EROSION CONTROL SYSTEMS SHALL BE ADDED WHICH ARE NOT INCLUDED IN THIS PLAN. THE CONTRACTOR SHALL PERFORM ALL WORK AS DIRECTED BY THE ENGINEER AND AS SHOWN IN SPECIAL DETAILS AND IN STANDARD 280001 OF THE PLANS.

THE SPECIAL PROVISIONS TEMPORARY SEEDING AND TEMPORARY EROSION CONTROL ADDITIONALLY SUPPLEMENT THIS PLAN.

ALL DISTURBED AREAS HAVING HIGH POTENTIAL FOR EROSION, AS DETERMINED BY THE ENGINEER, SHALL BE TEMPORARILY SEEDED OR PERMANENTLY SEEDED BY OCTOBER 1 OF EACH CONSTRUCTION YEAR, AND SHALL NOT BE REOPENED UNTIL AFTER THE WINTER SHUTDOWN PERIOD.

SITE DESCRIPTION

DESCRIPTION OF CONSTRUCTION ACTIVITY:

1. THE PROPOSED PROJECT CONSISTS OF 1,050 FEET OF RECONSTRUCTION AND RESURFACING OF A RURAL TWO-LANE HIGHWAY IN MACOUPIN COUNTY.
2. CONSTRUCTION CONSISTS OF PARTIAL PAVEMENT REMOVAL AND RESURFACING OF EX IL RTE 16.
3. CONSTRUCTION IS TO BE DONE IN THREE MAJOR STAGES, AND CONSISTS OF GRADING, CONSTRUCTING CULVERTS & DITCHES, PAVING, PLACING SHOULDERS AND RESURFACING AND OTHER WORK REQUIRED TO COMPLETE THE PROPOSED IMPROVEMENT.

DESCRIPTION OF INTENDED SEQUENCE OF MAJOR CONSTRUCTION ACTIVITIES WHICH WILL DISTURB EARTH AND LEAD TO POSSIBLE EROSION FOR MAJOR PORTIONS OF THE CONSTRUCTION SITE:

1. TREE REMOVAL WILL BE COMPLETED TO CLEAR APPROXIMATELY 0.0 ACRES OF WOODED LAND.
2. EXCAVATION WILL BE COMPLETED ALONG THE ENTIRE LENGTH TO GRADE OUT FOR PROPOSED ROADWAY DITCHES AND WATERWAYS.
3. EXCAVATION WILL ALSO BE COMPLETED IN PROPOSED CUT SECTIONS TO LOWER THE EXISTING GROUND ELEVATION TO MEET THE PROPOSED ROADWAY GRADE/VERTICAL ALIGNMENT.
4. EMBANKMENT WILL BE COMPLETED IN FILL AREAS TO RAISE THE EXISTING GROUND ELEVATION TO MEET THE PROPOSED ROADWAY FORESLOPE AND BACKSLOPE.
5. DRAINAGE STRUCTURES WILL BE INSTALLED BEFORE AND/OR DURING THE CONSTRUCTION OF THE EXCAVATION AND EMBANKMENT TO ALLOW PROPER DRAINAGE ACROSS THE PROPOSED TWO LANE FACILITY.
6. PLACEMENT, MAINTENANCE, REMOVAL AND PROPER CLEAN-UP OF TEMPORARY EROSION CONTROL, SUCH AS EROSION CONTROL FENCE, RIPRAP DITCH CHECKS, SEDIMENT BASINS, TEMPORARY SEEDING, ETC.
7. PLACEMENT OF PERMANENT EROSION CONTROL, SUCH AS RIPRAP DITCH LINING, RIPRAP STILLING BASINS, RIPRAP DRY DAMS, EXCELSIOR BLANKET, SEEDING, ETC.
8. FINAL GRADING, PAVING AND OTHER MISCELLANEOUS ITEMS.

AREA OF CONSTRUCTION SITE:

APPROXIMATELY 1.7 ACRES WILL BE DISTURBED BY EXCAVATION, GRADING OR OTHER ACTIVITIES, WITH A TOTAL DRAINAGE AREA OF 1.17 SQ. MI.

OTHER REPORTS, STUDIES AND PLANS WHICH AID IN THE DEVELOPMENT OF THIS STORM WATER POLLUTION PREVENTION PLAN AS REFERENCED DOCUMENTS:

1. ESTIMATED RUNOFF COEFFICIENTS ARE CONTAINED IN THE PROJECT DRAINAGE STUDY WHICH WERE UTILIZED FOR PROPOSED PLACEMENT OF THE TEMPORARY EROSION CONTROL SYSTEMS.
2. INFORMATION ON THE SOILS WITHIN THE SITE WAS OBTAINED FROM FIELD REVIEWS WHICH WERE UTILIZED FOR PROPOSED PLACEMENT OF THE TEMPORARY EROSION CONTROL SYSTEMS.
3. SITE MAPS INDICATING DRAINAGE PATTERNS AND APPROXIMATE SLOPES WERE CONTAINED IN THE PROJECT DESIGN REPORT, USGS DRAINAGE MAPS, PROJECT DRAINAGE STUDY, AND PROJECT PLAN DOCUMENTS WERE ALL UTILIZED FOR PROPOSED PLACEMENT OF THE TEMPORARY EROSION CONTROL SYSTEMS.

DRAINAGE TRIBUTARIES RECEIVING WATER FROM THIS CONSTRUCTION SITE:

1. DITCH
2. MINOR TRIBUTARIES OF THE ABOVE.

FILE NAME = G:\585881\CAD\5881SWPP.dgn	USER NAME = IE Consultants	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	STORM WATER POLLUTION PREVENTION PLAN		F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLDT SCALE = 48.000' / IN.	DRAWN -	REVISED -				325	114 (B-1)	MACOUPIN	57	33
PLDT DATE = 10/28/2009	CHECKED -	REVISED -	CONTRACT NO. 72646								
	DATE -	REVISED -	SCALE:		SHEET NO.	OF	SHEETS	STA.	TO STA.	ILLINOIS FED. AID PROJECT	

CONTROLS - EROSION CONTROLS AND SEDIMENT CONTROLS

Description of Stabilization Practices at the Beginning of Construction:

1. The area between the existing and proposed right-of-way/temporary easement boundaries and limits of the project will be improved and managed for the purposes of controlling erosion within the area, reducing water flow by temporary diversion and minimizing siltation into the construction zone, and establishing vegetative cover which will become permanent vegetation and act as an erosion barrier. Work at the beginning of construction will consist of the following:
 - (a) Areas of existing vegetation (woods and grasslands) outside the proposed construction slope limits shall be identified for preserving and shall be protected from mowing, brush cutting, tree removal and other activities which would be detrimental to their maintenance and development.
 - (b) Dead, diseased, or unsuitable vegetation within the site shall be removed as directed by the Engineer, along with required tree removal.
 - (c) As soon as reasonable access is available (such as trees cleared) to all locations where water drains away from the project, sediment basins, riprap ditch checks, temporary ditch checks, and/or erosion control fence shall be installed as called out in this plan and directed by the Engineer.
 - (d) Bare and sparsely vegetated ground in highly erodible areas as determined by the Engineer shall be temporarily seeded at the beginning of construction where no construction activities are immediately expected as stated in the special provision "Temporary Erosion Control Seeding".
 - (e) Immediately after tree removal is completed in certain areas which are highly erodible areas as determined by the Engineer, the areas shall be temporarily seeded where no construction activities are immediately expected as stated in the special provision "Temporary Erosion Control Seeding".
 - (f) At locations where a significant amount of water drains into the construction zone from outside areas (adjacent landowners), erosion control fence, temporary ditch checks, or riprap ditch checks will be utilized to locally divert water, reduce flow rates, and collect outside siltation inside the right-of-way line. Erosion control items will not be allowed to be installed to cause flooding to upstream private property which could cause crop damages or other undesirable conditions.
2. Establishment of these temporary erosion control measures will have additional benefits to the project. Desirable grass seed will become established in these areas and will spread seeds onto the construction site until permanent seeding/mowing and overseeding can be complete.
3. A third benefit of these filter areas is that they will begin to provide a screen and buffer. They will help protect the construction site from winds and excess sun and mitigate construction noise and dust.

Description of Stabilization Practices During Construction:

1. During roadway construction, areas outside the construction slope limits as outlined previous herein shall be protected from damaging effects of construction. The Contractor shall not use this area for staging (except as designated on the plans or directed by the Engineer), parking of vehicles or construction equipment, storage of materials, or other construction related activities.
 - (a) Within the construction zone, critical areas which have high flows of water as determined by the Engineer shall remain undisturbed until full scale construction is underway to prevent unnecessary soil erosion.
 - (b) Top soil and earth stockpiles shall be temporarily seeded if they are to remain unused for more than fourteen days.
 - (c) As the Contractor constructs a portion of roadway in a fill section, he/she shall follow the following steps as directed by the Engineer:
 - i. Place temporary erosion control systems at locations where water leaves and enters the construction zone
 - ii. Temporary seed highly erodible areas outside the construction slope limits
 - iii. Construct roadside ditches and provide temporary erosion control systems
 - iv. Temporary divert water around proposed culvert locations
 - v. Build necessary embankment at culvert locations and then excavate and place culvert
 - vi. Continue building up the embankment to the proposed grade while at the same time place permanent erosion control such as riprap ditch lining and conduct final shaping to the slopes
 - (d) The Contractor shall immediately follow major earth moving operations with final grading equipment. After the major earth spread operation has moved to a new location, final grading shall be completed within fourteen days. If grading is not completed within fourteen days, all major earth moving operations will be stopped, as directed by the Engineer, until disturbed areas are final graded and seeded.
 - (e) Excavated areas and embankments shall be permanently seeded when final graded. If not, they shall be temporarily seeded as stated in the special provision "Temporary Erosion Control Seeding".

(f) Construction equipment shall be stored and fueled only at designated locations. All necessary measures shall be taken to contain any fuel or pollution run-off in compliance with EPA water quality regulations. Leaking equipment or supplies shall be immediately repaired or removed from the site.

(g) The Resident Engineer shall inspect the project daily during activities and weekly or after large rains during the winter shutdown period. The project shall additionally be inspected by the Construction Field Engineer on a bi-weekly basis to determine that erosion control efforts are in place and effective and if other control work is necessary.

(h) Sediment collected during construction by the various temporary erosion control systems shall be disposed of on the site on a regular basis as directed by the Engineer. The cost of this maintenance will be paid for in accordance with Article 109.04 of the Standard Specifications.

(i) The temporary erosion control systems shall be removed as directed by the Engineer after use is no longer needed or no longer functioning. The costs of this removal shall be included in the unit bid price for the temporary erosion control system. No additional compensation will be allowed.

Description of Structural Practices After Final Grading:

1. Temporary erosion control systems shall be left in place with proper maintenance until permanent erosion control is in place and working properly and all proposed turf areas seeded and established with a proper stand.
2. Once permanent erosion control systems as proposed in the plans are functional and established, temporary items shall be removed, cleaned up, and disturbed turf reseeded. Temporary riprap ditch checks will be allowed to remain in place where approved by the Engineer.

Maintenance after Construction:

1. Construction is complete after acceptance is received at the final inspection.
2. Areas will be inspected on a regular basis by IDOT District 6 Bureau of Operations.
3. Maintenance crews will perform regular mowings to aid in keeping weeds down and establishing a good roadside seed stand.
4. Maintenance crews will also aid in any ditch lining maintenance or in any drainage problems.
5. All maintenance will be conducted at times when weather conditions will not cause site damage.

DOCUMENTATION

1. A report summarizing the scope of the inspection, name(s) and qualifications of personnel making the inspection, date(s) of the inspection, major observations relating to the implementation of this storm water pollution prevention plan, and actions taken in accordance with Section 4.b. shall be made and retained as part of the plan for at least three years after the date of inspection. The report shall be signed in accordance with part VI.G of the general permit.
2. If any violation of the provisions of this plan is identified during the conduct of the construction work covered by this plan, the Resident Engineer or Resident Technician shall complete and file an "Incident of Noncompliance (ION)" report for the identified violation. The Resident Engineer or Resident Technician shall use forms provided by the Illinois Environmental Protection Agency and shall include specific information on the noncompliance, actions which were taken to prevent any further causes of noncompliance, and a statement detailing any environmental impact which may have resulted from the noncompliance. All reports of noncompliance shall be signed by a responsible authority in accordance with Part VI.G. of the general permit. The report of noncompliance shall be mailed to the following address:

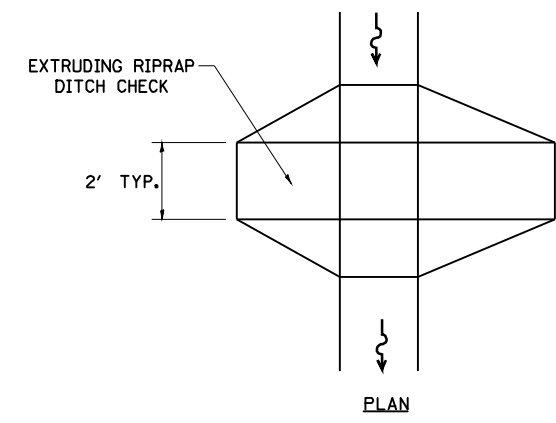
Illinois Environmental Protection Agency
 Division of Water Pollution Control
 2200 Church Hill Road, P.O. Box 19276
 Springfield, IL 62794-9276
 Attn: Compliance Assurance Section

FILE NAME =	USER NAME = laughlinr1	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	STORM WATER POLLUTION PREVENTION PLAN				F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
e:\pwwork\PWIDOT\LAUGHLINRL\20169540\2016SWPP.dgn		DRAWN -	REVISED -						325	114 (B-1)	MACOUPIN	57	34
PLOT SCALE = 40.000' / IN.		CHECKED -	REVISED -		CONTRACT NO. 72646								
PLOT DATE = Oct-21-2009 11:11:26AM		DATE -	REVISED -		SCALE:	SHEET NO.	OF SHEETS	STA.	TO STA.	ILLINOIS FED. AID PROJECT			

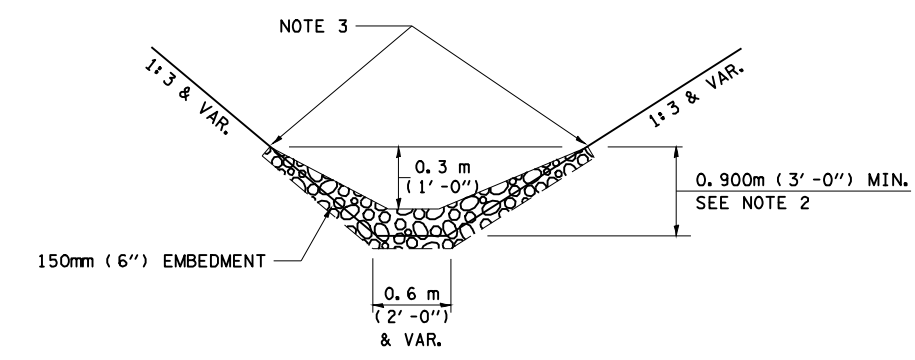
LEGEND FOR STORM WATER POLLUTION PREVENTION PLAN

ITEM	SYMBOL
AGGREGATE DITCH CHECKS [STONE DUMPED RIPRAP DITCH CHECKS: HEIGHT = 0.6M (2')]	
TEMPORARY DITCH CHECKS (AGGREGATE)	
INLET PIPE PROTECTION (I&PP) (HAY OR STRAW BALE DITCH CHECKS OR APPROVED SUBSTITUTION)	
PERIMETER EROSION BARRIER	
EARTH EXCAVATION FOR EROSION CONTROL (SEDIMENT BASINS)	
TEMPORARY RIPRAP WITH GROUT (SEE DETAIL)	
PRESERVE EXISTING TREES, WOODLANDS, AND UNDERSTORY (OUTSIDE CONSTRUCTION LIMITS)	
ITEM PLACED AT BEGINNING OF CONSTRUCTION (REQUIREMENT)	
ITEM PLACED AS DIRECTED BY ENGINEER (WHEN REQUIRED BY SITUATION)	
DIRECTION OF OVERLAND FLOW	
PR DITCH FLOW LINE	
TEMPORARY DITCH FLOW LINE	
PR DITCH SUMMIT	

GENERAL NOTES:
ALL ITEMS SHALL BE CONSTRUCTED AS SHOWN ON THIS SHEET,
ON STANDARD 280001, AND AS DIRECTED BY THE ENGINEER.

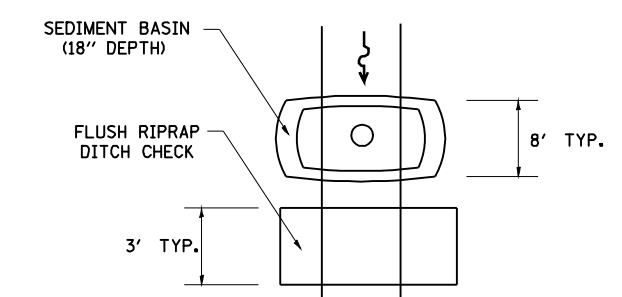


PLAN

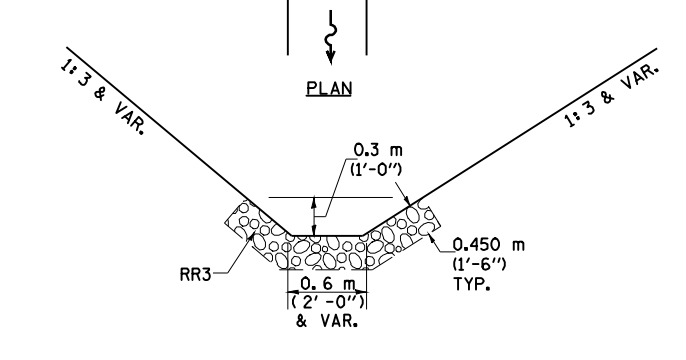


ELEVATION
OPTION 1

(EXTRUDING DITCH CHECK)
RECOMMENDED FOR AREAS
W/ RIPRAP DITCH LINING



PLAN



ELEVATION
OPTION 2

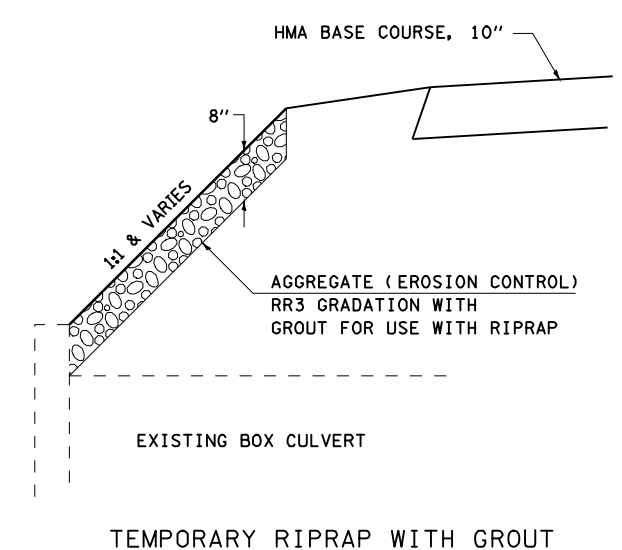
(FLUSH DITCH CHECK)
RECOMMENDED FOR AREAS
W/O RIPRAP DITCH LINING

STONE DUMPED RIPRAP DITCH CHECK
(TYPICAL & OPTIONS 1 & 2
AS DIRECTED BY THE ENGINEER)

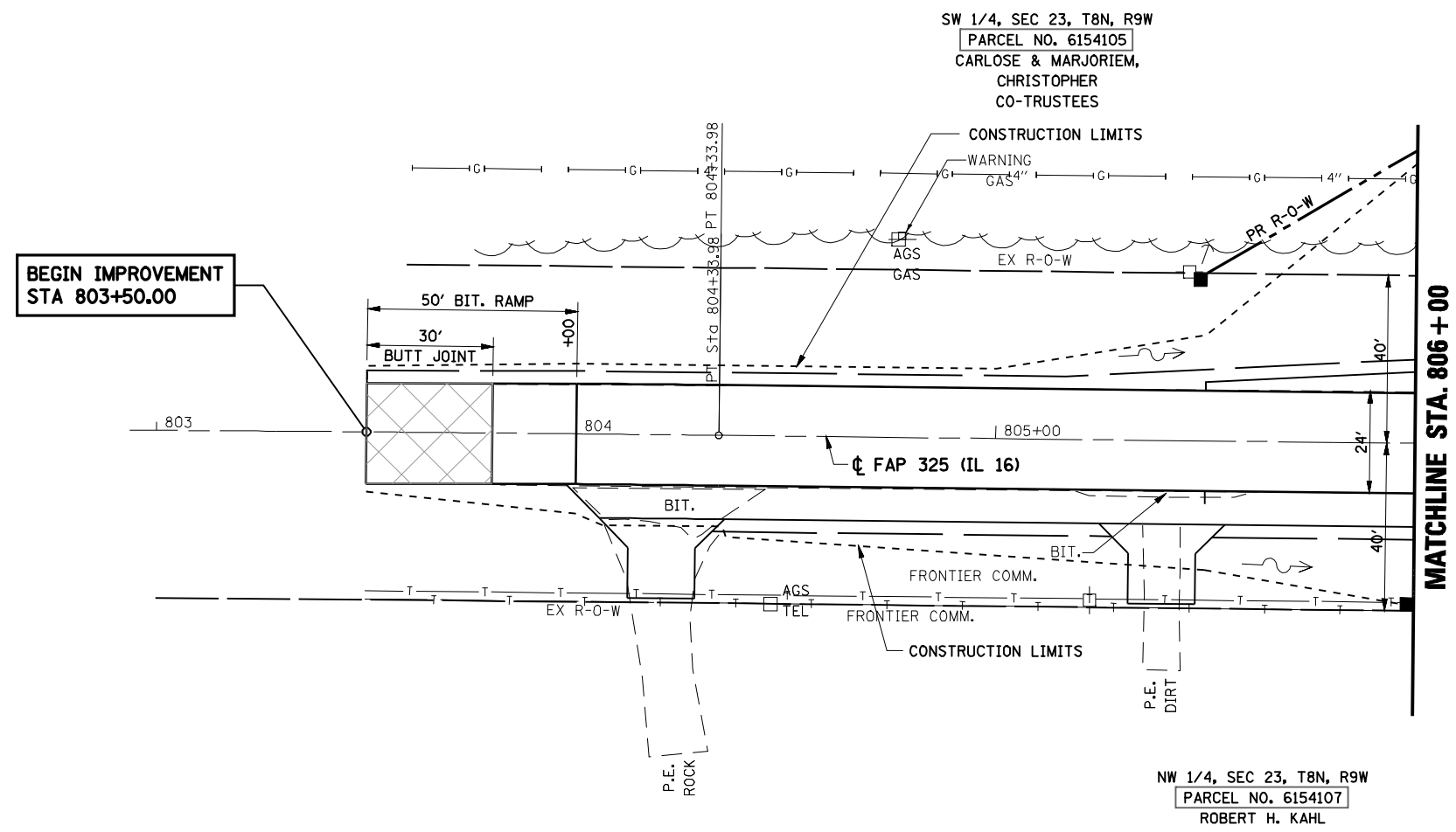
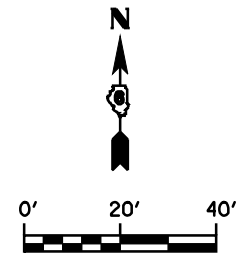
NOTE 1: RIPRAP SHALL EXTEND FAR ENOUGH UP THE
SLOPES TO ALLOW 0.3m (1') OVERTOPPING TO
AVOID ERODING AROUND THE EDGES OF THE
RIPRAP.

NOTE 2: ENDS SHALL BE TIED INTO SLOPES.

NOTE 3: HAY OR STRAW BALE DITCH CHECKS ARE NOT ALLOWED.



TEMPORARY RIPRAP WITH GROUT



EXIST. CURVE 10
 PI STA. = 799+04.60
 $\Delta = 2^\circ 08' 35''$ (RT)
 D = $0^\circ 12' 09''$
 R = 28,309.79'
 T = 529.50'
 L = 1,058.88'
 E = 4.95'
 e = NC
 T.R. = -----
 S.E. RUN = -----
 P.C. STA. = 793+75.10
 P.T. STA. = 804+33.98

FILE NAME =	USER NAME = #USER#	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	STORM WATER POLLUTION PREVENTION PLAN			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
#FILEL#		DRAWN - TRF	REVISED -					325	114 (B-1)	MACOUPIN	57	36	
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	PLOT DATE = #DATE#	DATE - 7/31/09	REVISED -		ILLINOIS FED. AID PROJECT								

SW 1/4, SEC 23, T8N, R9W
 PARCEL NO. 6154105
 CARLOSE & MARJORIEM,
 CHRISTOPHER
 CO-TRUSTEES

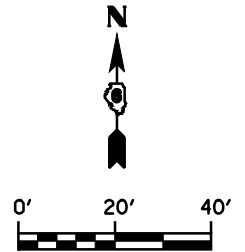
STA 11+00.00
 LIMITS OF IMPROVEMENT
 PR BUTT JOINT

POT 11+53.51

CONSTRUCTION LIMITS

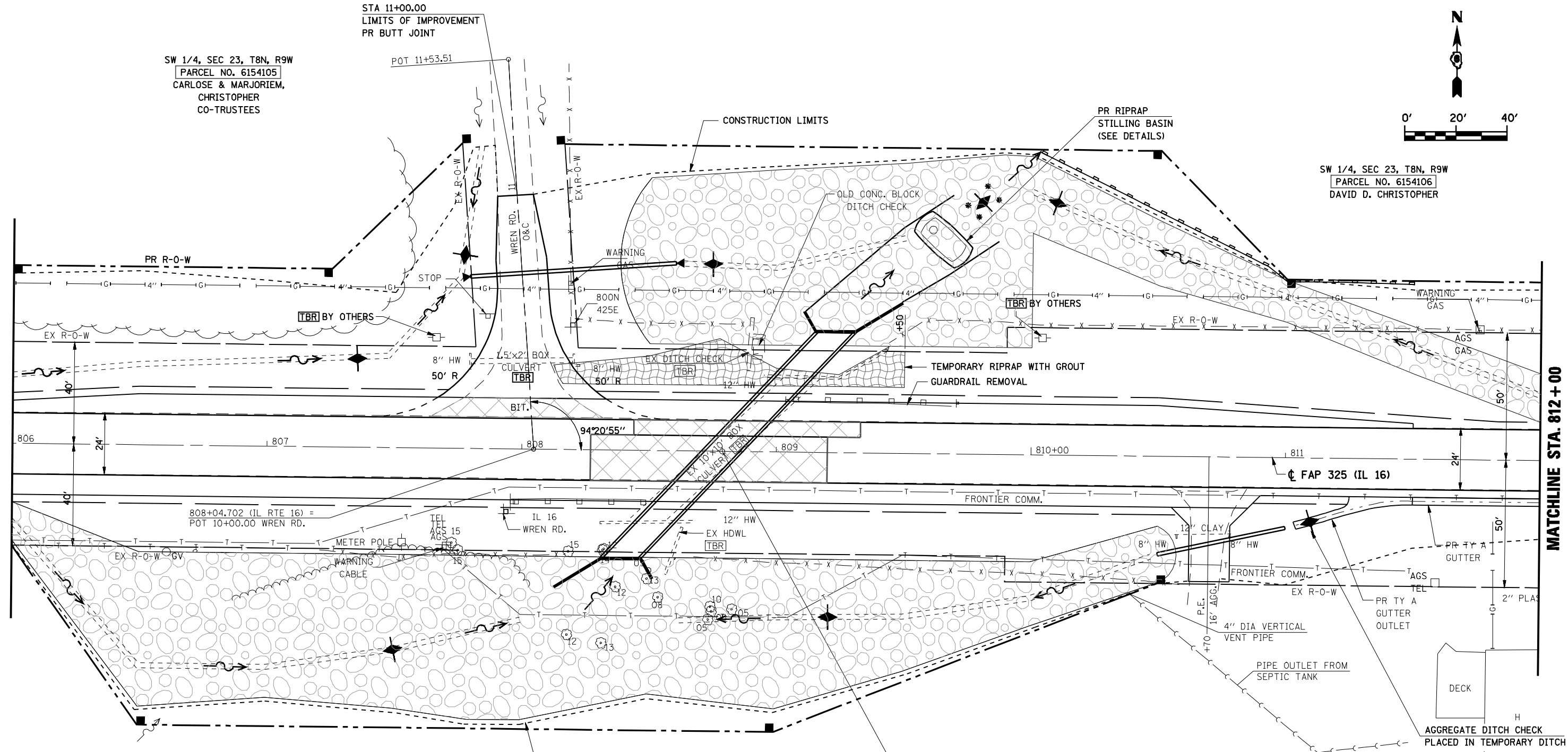
PR RIPRAP
 STILLING BASIN
 (SEE DETAILS)

SW 1/4, SEC 23, T8N, R9W
 PARCEL NO. 6154106
 DAVID D. CHRISTOPHER



MATCHLINE STA. 806+00

MATCHLINE STA. 812+00



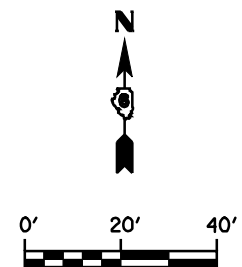
NW 1/4, SEC 26, T8N, R9W
 PARCEL NO. 6154107
 ROBERT H. KAHL

CONSTRUCTION LIMITS

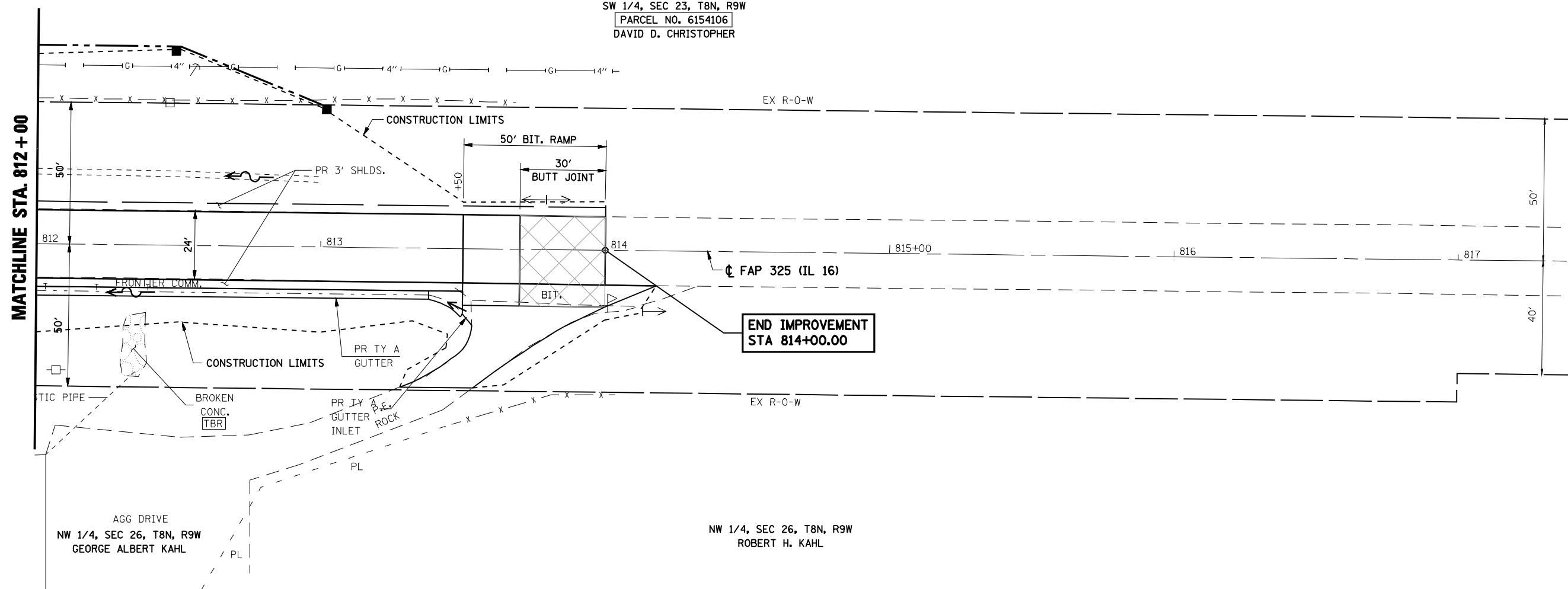
STA. 808+76.30 (43° SKEW, LTFWD)
 PR 10' x 10' R. C. BOX CULV
 (SEE DETAILS)

NW 1/4, SEC 26, T8N, R9W
 GEORGE ALBERT KAHL

FILE NAME = #FILE#	USER NAME = #USER#	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	STORM WATER POLLUTION PREVENTION PLAN			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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	DATE - 7/31/09	REVISED -	ILLINOIS FED. AID PROJECT									

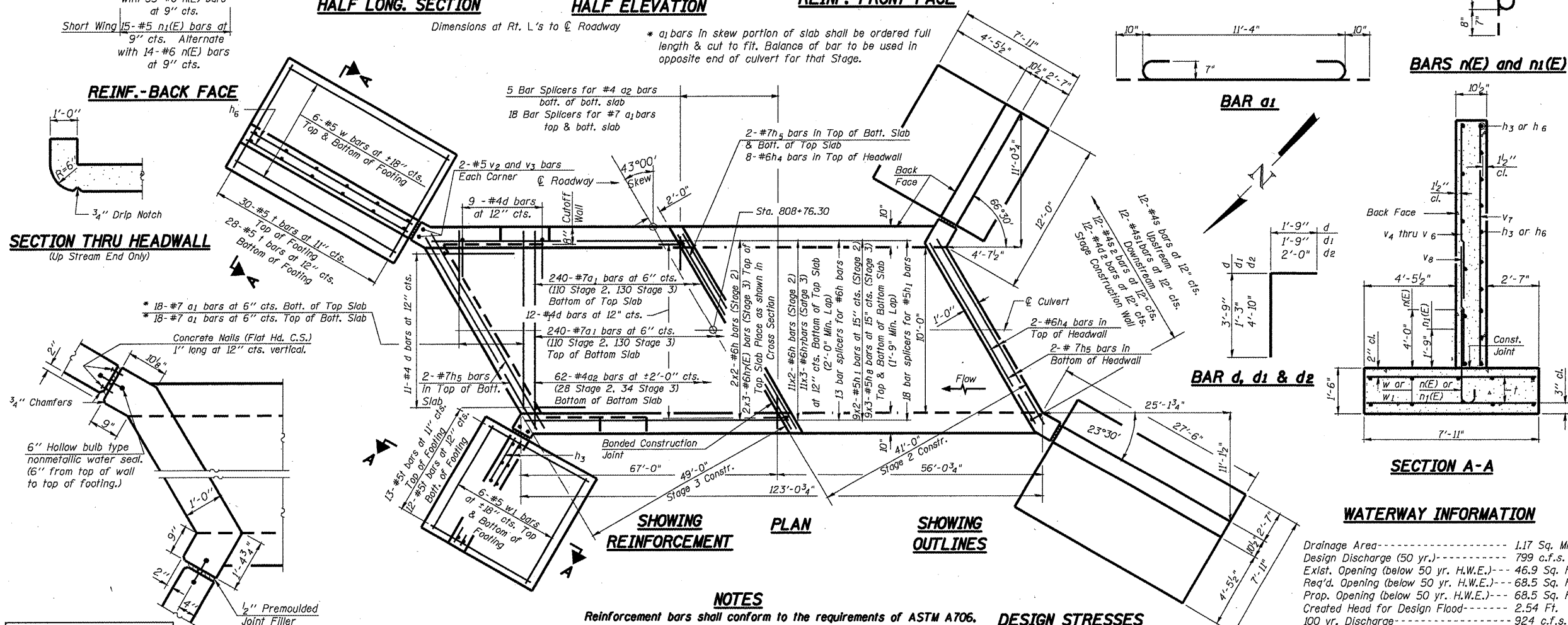
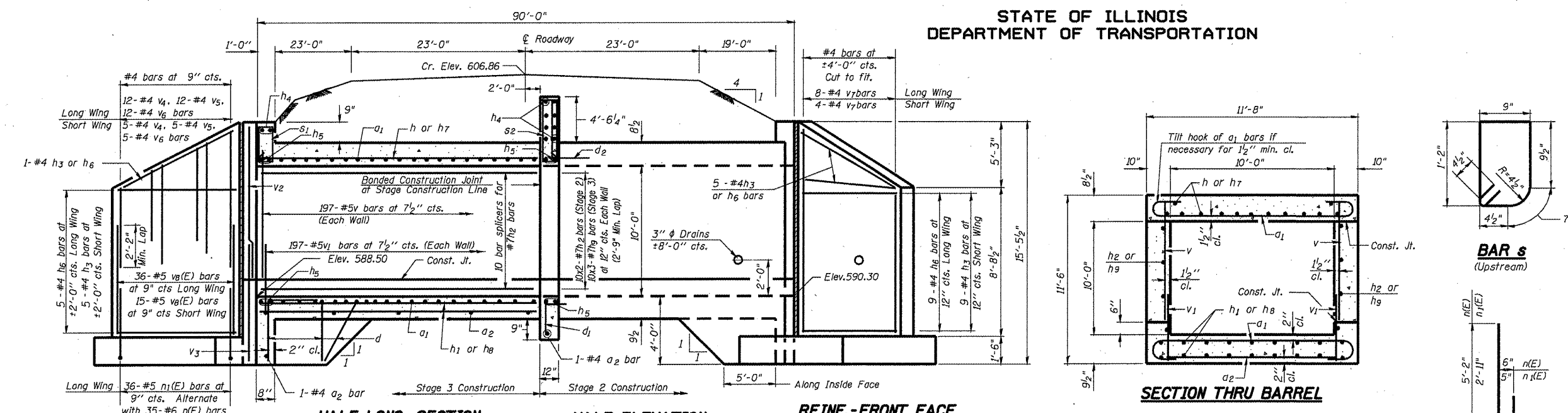


SW 1/4, SEC 23, T8N, R9W
 PARCEL NO. 6154106
 DAVID D. CHRISTOPHER



FILE NAME = *FILEL*	USER NAME = *USER*	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	STORM WATER POLLUTION PREVENTION PLAN			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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	DATE - 7/31/09	REVISED -	ILLINOIS FED. AID PROJECT									

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



DESIGNED SCD
CHECKED DRB
DRAWN THW
CHECKED SCD

CORNER DETAIL

ie CONSULTANTS, INC
6420 SOUTH SIXTH STREET
SPRINGFIELD, ILLINOIS 62712
TEL. (217) 529-8027
FAX (217) 529-4543
WWW.IE-CONSULTANTS.COM

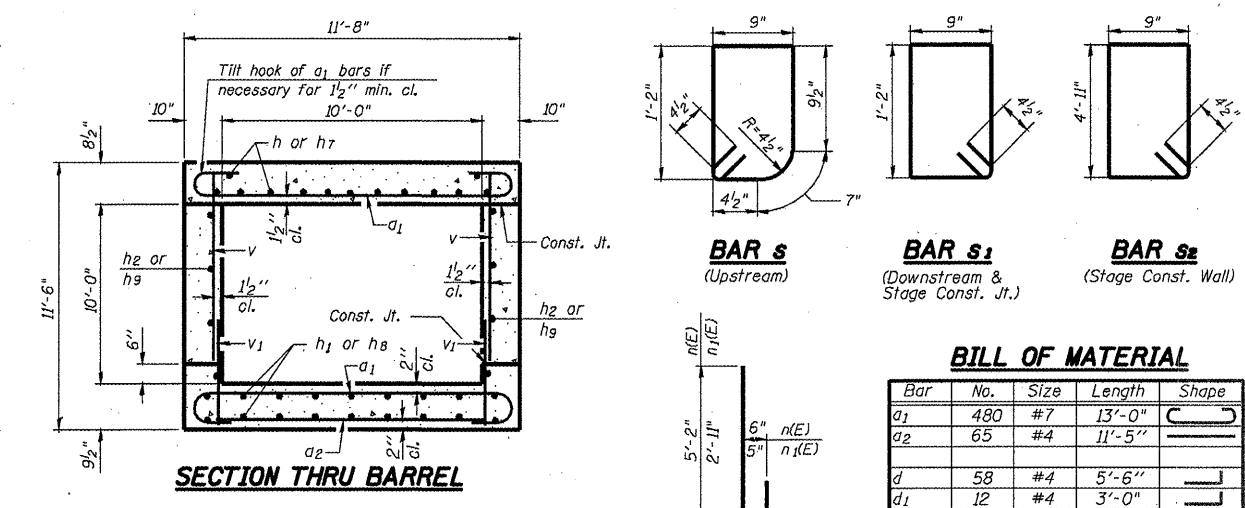
NOTES

Reinforcement bars shall conform to the requirements of ASTM A706, Grade 60.
Bars indicated thus 12 x 4-#5 etc. indicates 12 lines of bars with 4 lengths per line.
Reinforcement bars designated (E) shall be epoxy coated.
All construction joints shall be bonded.

DESIGN STRESSES

$f_y = 60,000 \text{ psi}$
 $f'_c = 3,500 \text{ psi}$
Max. Soil Pressure under footing = 3,148 psf

LOADING HS 20-44 & ALT.



BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a1	480	#7	13'-0"	
a2	65	#4	11'-5"	
d	58	#4	5'-6"	
d1	12	#4	3'-0"	
d2	12	#4	6'-10"	
h	26	#6	28'-10"	
h1	36	#5	28'-8"	
h2	40	#7	29'-3"	
h3	40	#4	11'-0"	
h4	12	#6	14'-6"	
h5	12	#7	15'-0"	
h6	40	#4	26'-6"	
h7	39	#6	23'-7"	
h8	54	#5	23'-4"	
h9	60	#7	24'-1"	
n(E)	98	#6	5'-10"	
n1(E)	102	#5	3'-6"	
s	12	#4	4'-5"	
s1	12	#4	4'-7"	
s2	12	#4	12'-1"	
t	166	#5	7'-8"	
v	394	#5	10'-0"	
v1	394	#5	2'-3"	
v2	8	#5	10'-10"	
v3	8	#5	6'-4"	
v4	34	#4	9'-9"	
v5	34	#4	8'-0"	
v6	34	#4	6'-3"	
v7	24	#4	13'-8"	
v8	102	#5	6'-0"	
w	24	#5	26'-6"	
w1	24	#5	11'-0"	
Concrete Box Culverts			Cu. Yd.	225.7
Reinforcement Bars, Epoxy Coated			Pound	1,240
Reinforcement Bars			Pound	34,440
Bar Splicers			Each	92

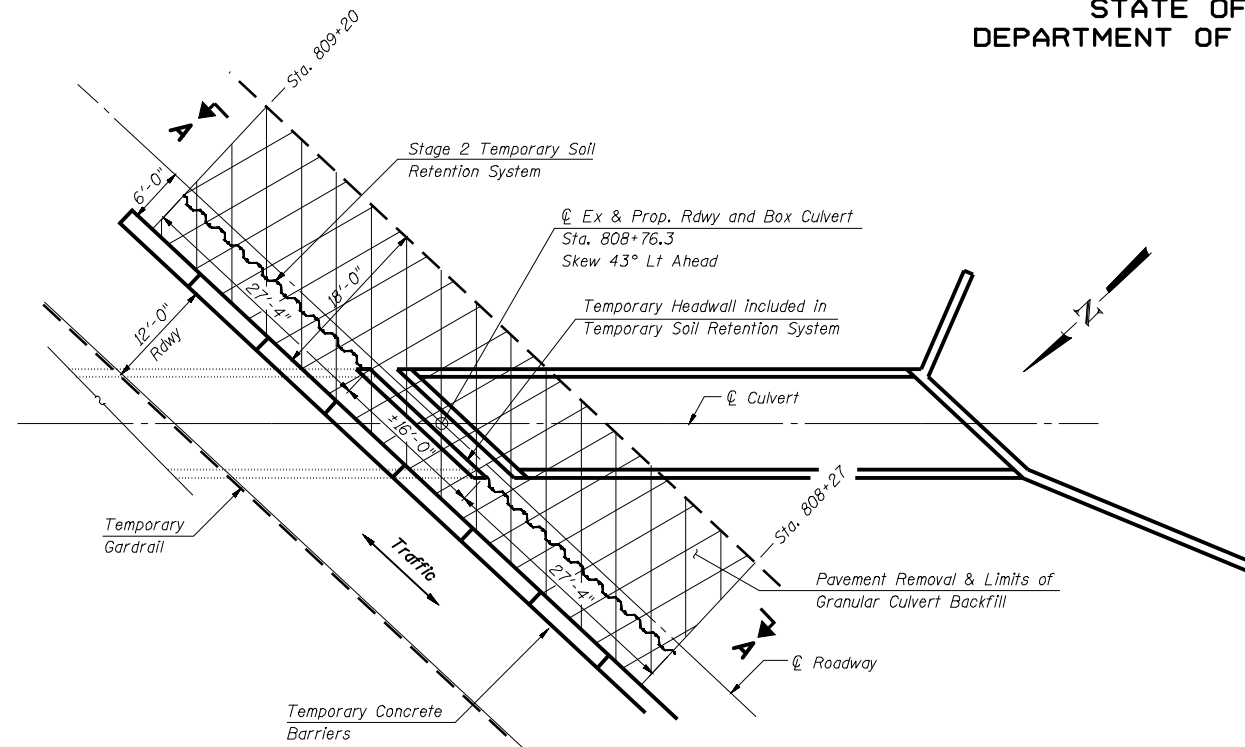
WATERWAY INFORMATION

Drainage Area----- 1.17 Sq. Mi.
Design Discharge (50 yr.)----- 799 c.f.s.
Exlst. Opening (below 50 yr. H.W.E.)-- 46.9 Sq. Ft.
Req'd. Opening (below 50 yr. H.W.E.)-- 68.5 Sq. Ft.
Prop. Opening (below 50 yr. H.W.E.)-- 68.5 Sq. Ft.
Created Head for Design Flood----- 2.54 Ft.
100 yr. Discharge----- 924 c.f.s.
Created Head 100 yr. Flood----- 3.14 Ft.
100 yr. H.W.E.----- 595.29

10' x 10' R.C. BOX CULVERT
F.A.P. 325 (IL RTE 16)
MACOUPIN COUNTY
STRUCTURE No. 059-7102
STA. 808+76.30

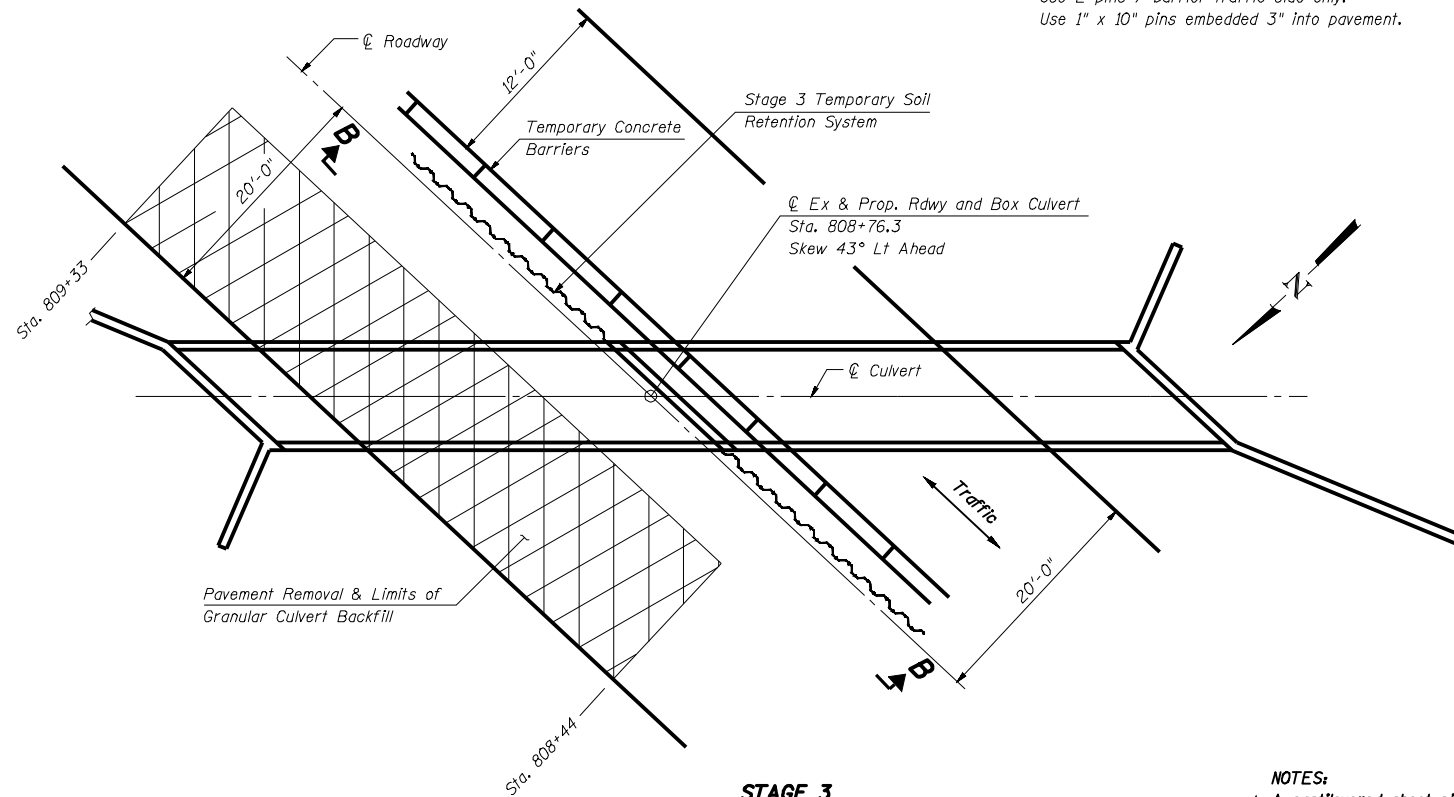
SHEET NO. 1	F.A.P. RTE.	SECTION	COUNTY	TOTAL	SHEET NO.
OF 5 SHEETS	325	114 (B-1)	MACOUPIN	57	39
CONTRACT NO. 72646					
FED. ROAD DIST. NO.		ILLINOIS		FED. AID PROJECT	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

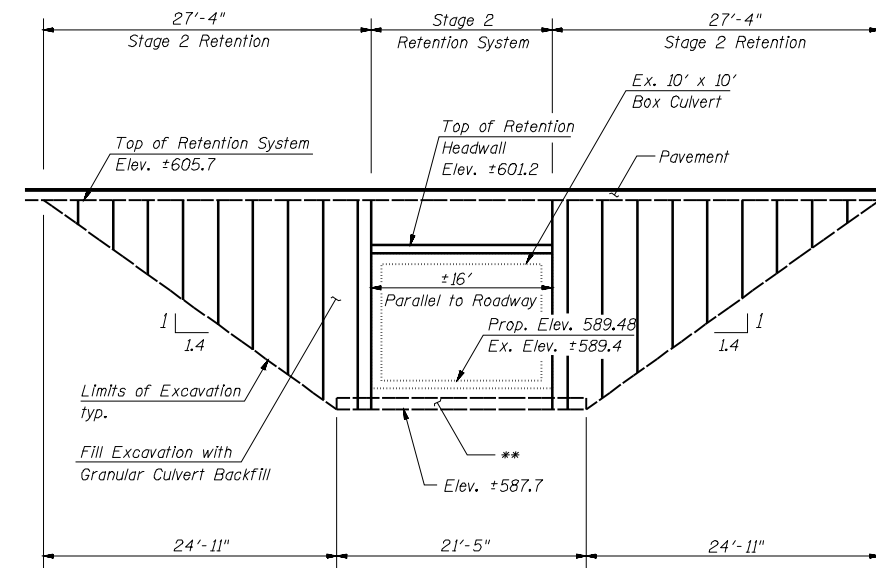


STAGE 2

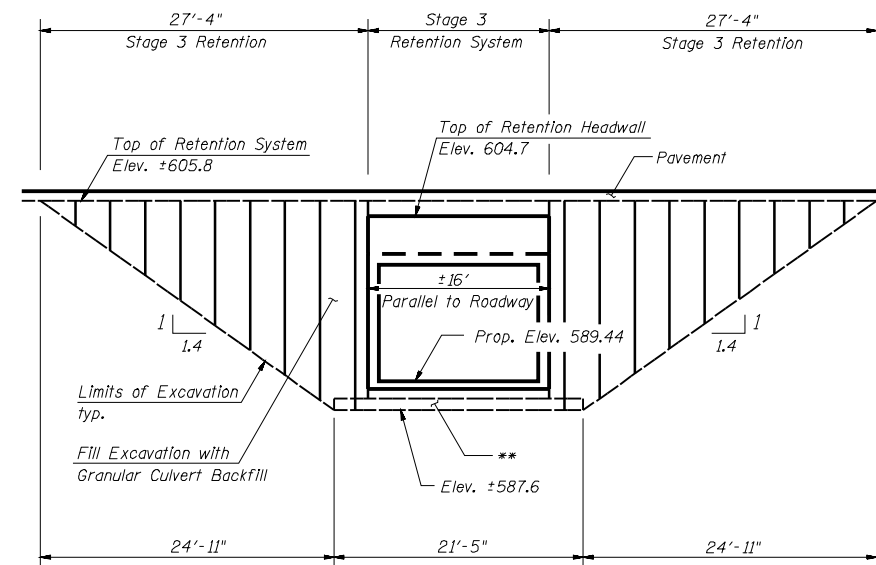
NOTE:
Pin all Barriers along Pavement Removal.
Use 2 pins / barrier traffic side only.
Use 1" x 10" pins embedded 3" into pavement.



STAGE 3



SECTION A-A
(Parallel to Roadway)



SECTION B-B
(Parallel to Roadway)

** Removal and replacement of weak soils with rockfill foundations may be required beneath the culvert. The Engineer will determine the required depth following excavation to Plan Grade.

BILL OF MATERIALS

ITEM	UNIT	QTY.
TEMPORARY SOIL RETENTION SYSTEM	SQ FT	1,256
GRANULAR CULVERT BACKFILL	CU YD	1,834
ROCK FILL - FOUNDATION	TON	130

**STAGE CONSTRUCTION DETAILS
& TEMPORARY SOIL RETENTION
STRUCTURE No. 059-7102**

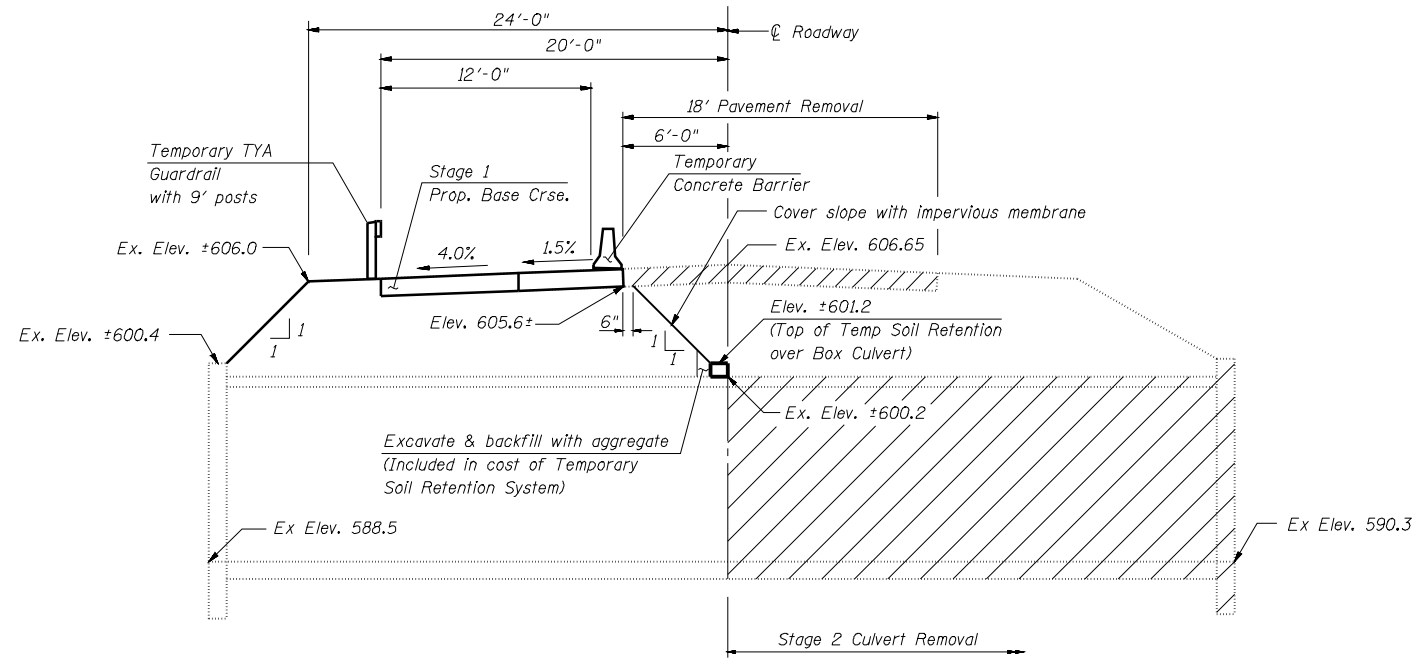
DESIGNED	SCD
CHECKED	DRB
DRAWN	THW
CHECKED	SCD

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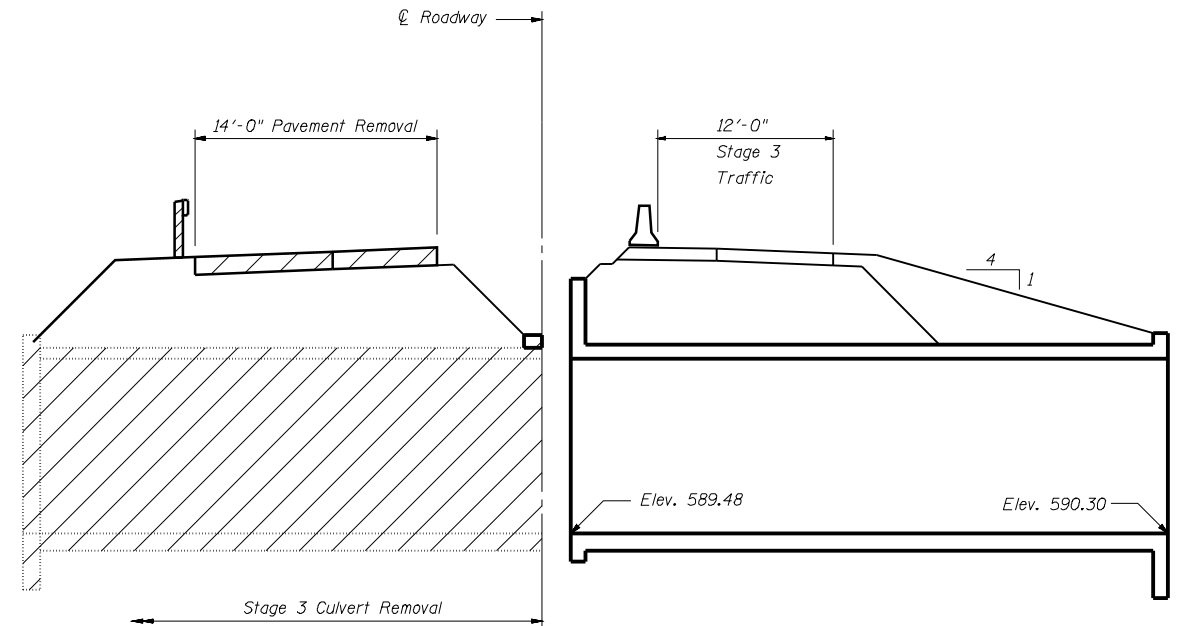
- NOTES:
- A cantilevered sheet piling design does not appear feasible and additional members or other retention system may be necessary. The Contractor shall submit a temporary soil retention system design including plan details and calculations for review and acceptance by the Engineer.
 - Pay Item for Temporary Concrete Barrier are Included in Roadway Plans.
 - Removal of existing culvert and wingwalls shall be paid for as REMOVAL OF EXISTING STRUCTURE #1.
 - Removal of Unsuitable Material Shall be Included in the cost for Rock-Fill Foundation.

SHEET NO. 2 OF 5 SHEETS	F.A.P. RTE.	SECTION	COUNTY	TOTAL	SHEET NO.
	325	114 (B-1)	MACOUPIN	57	40
FED. ROAD DIST. NO.			ILLINOIS FED. AID PROJECT		
CONTRACT NO. 72646					

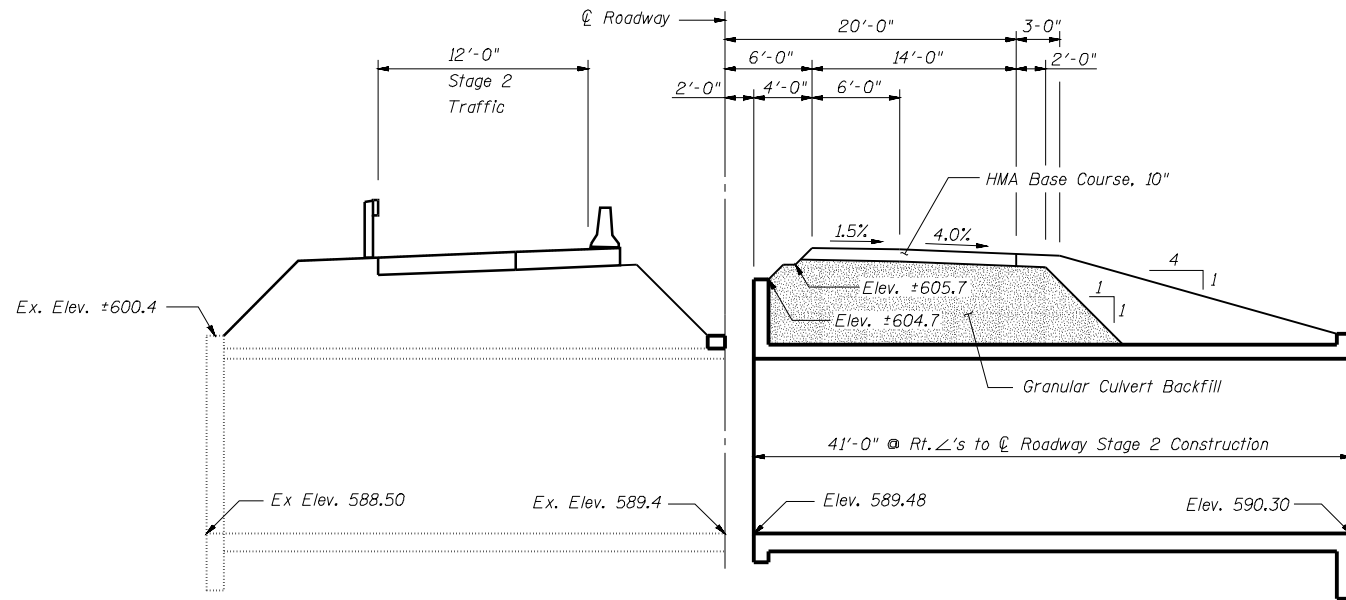
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



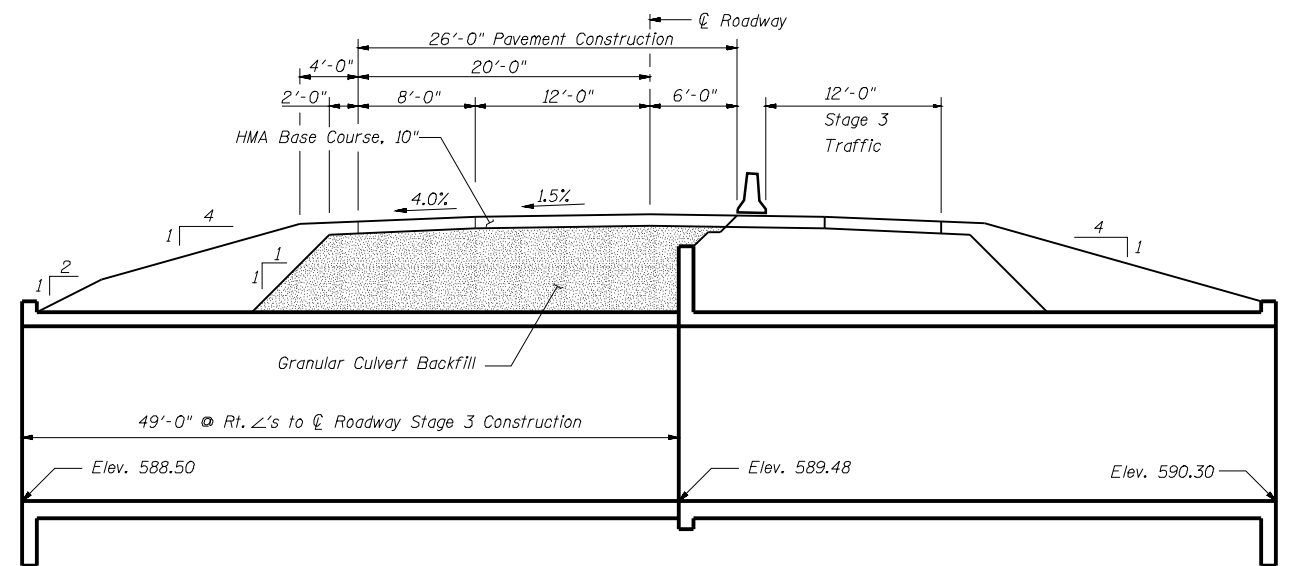
STAGE 2 REMOVAL
(Dim. @ Rt. ∠'s to C Roadway)



STAGE 3 REMOVAL
(Dim. @ Rt. ∠'s to C Roadway)



STAGE 2 CONSTRUCTION
(Dim. @ Rt. ∠'s to C Roadway)



STAGE 3 CONSTRUCTION
(Dim. @ Rt. ∠'s to C Roadway)

DESIGNED	SCD
CHECKED	DRB
DRAWN	THW
CHECKED	SCD



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STAGE CONSTRUCTION DETAILS
STRUCTURE No. 059-7102

SHEET NO. 3 OF 5 SHEETS	F.A.P. RTE.	SECTION	COUNTY	TOTAL	SHEET NO.
	325	114 (B-1)	MACOUPIN	57	41
FED. ROAD DIST. NO.			ILLINOIS FED. AID PROJECT		
CONTRACT NO. 72646					

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

The diameter of this part is the same as the diameter of the bar spliced.

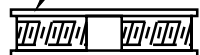
The diameter of this part is equal or larger than the diameter of bar spliced.

ROLLED THREAD DOWEL BAR



**** ONE PIECE**

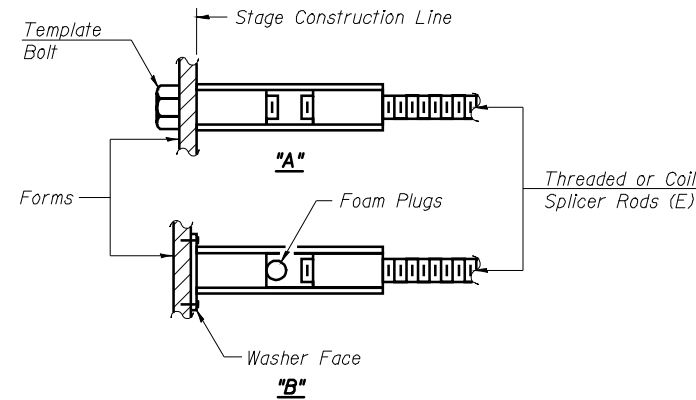
Wire Connector



WELDED SECTIONS

BAR SPLICER ASSEMBLY ALTERNATIVES

** Heavy Hex Nuts conforming to ASTM A 563, Grade C, D or DH may be used.



INSTALLATION AND SETTING METHODS

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

NOTES

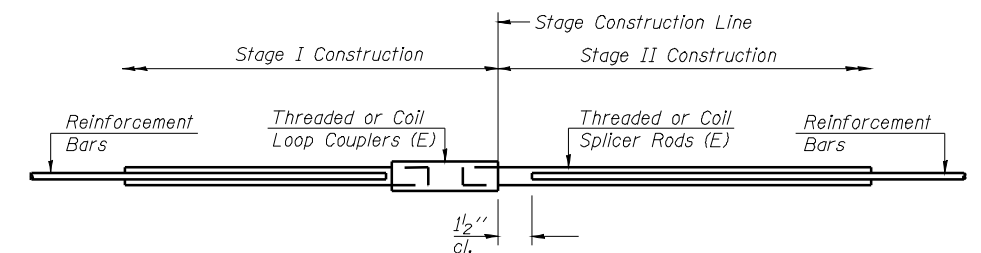
Bar splicer assemblies shall be of an approved type and shall develop in tension at least 125 percent of the yield strength of the lapped reinforcement bars.
Splicer rods shall be of minimum 60 ksi yield strength, threaded or coiled full length.
All reinforcement bars shall be lapped and tied to the splicer rods or dowel bars.
Bar splicer assemblies shall be epoxy coated according to the requirements for reinforcement bars.
Other systems of similar design may be submitted to the Engineer for approval. Approval shall be based on certified test results from an approved testing laboratory that the proposed bar splicer assembly satisfies the following requirements:

- ① Minimum Capacity (Tension in kips) = $1.25 \times f_y \times A_t$
- ② Minimum *Pull-out Strength (Tension in kips) = $1.25 \times f_{sallow} \times A_t$

Where f_y = Yield strength of lapped reinforcement bars in ksi.
 f_{sallow} = Allowable tensile stress in lapped reinforcement bars in ksi (Service Load)
 A_t = Tensile stress area of lapped reinforcement bars.
* = 28 day concrete

BAR SPLICER ASSEMBLIES			
Bar Size to be Spliced	Splicer Rod or Dowel Bar Length	Strength Requirements	
		Min. Capacity kips - tension	Min. Pull-Out Strength kips - tension
#4	1'-8"	14.7	5.9
#5	2'-0"	23.0	9.2
#6	2'-7"	33.1	13.3
#7	3'-5"	45.1	18.0
#8	4'-6"	58.9	23.6
#9	5'-9"	75.0	30.0
#10	7'-3"	95.0	38.0
#11	9'-0"	117.4	46.8

Bar splicer assemblies shall be according to Section 508 of the Standard Specifications, except as noted. The furnishing and installation of bar splicer assemblies will be measured and paid for at the contract unit price each for "BAR SPLICERS."



STANDARD

Bar Size	No. Assemblies Required	Location
#6	13	Top Slab
#7	20	Sidewalls
#5	18	Bottom Slab
#7	36	Top & Bott. Slab
#4	5	Bott. Slab

**BAR SPLICER ASSEMBLY DETAILS
STRUCTURE No. 059-7102**

DESIGNED	SCD
CHECKED	DRB
DRAWN	THW
CHECKED	SCD

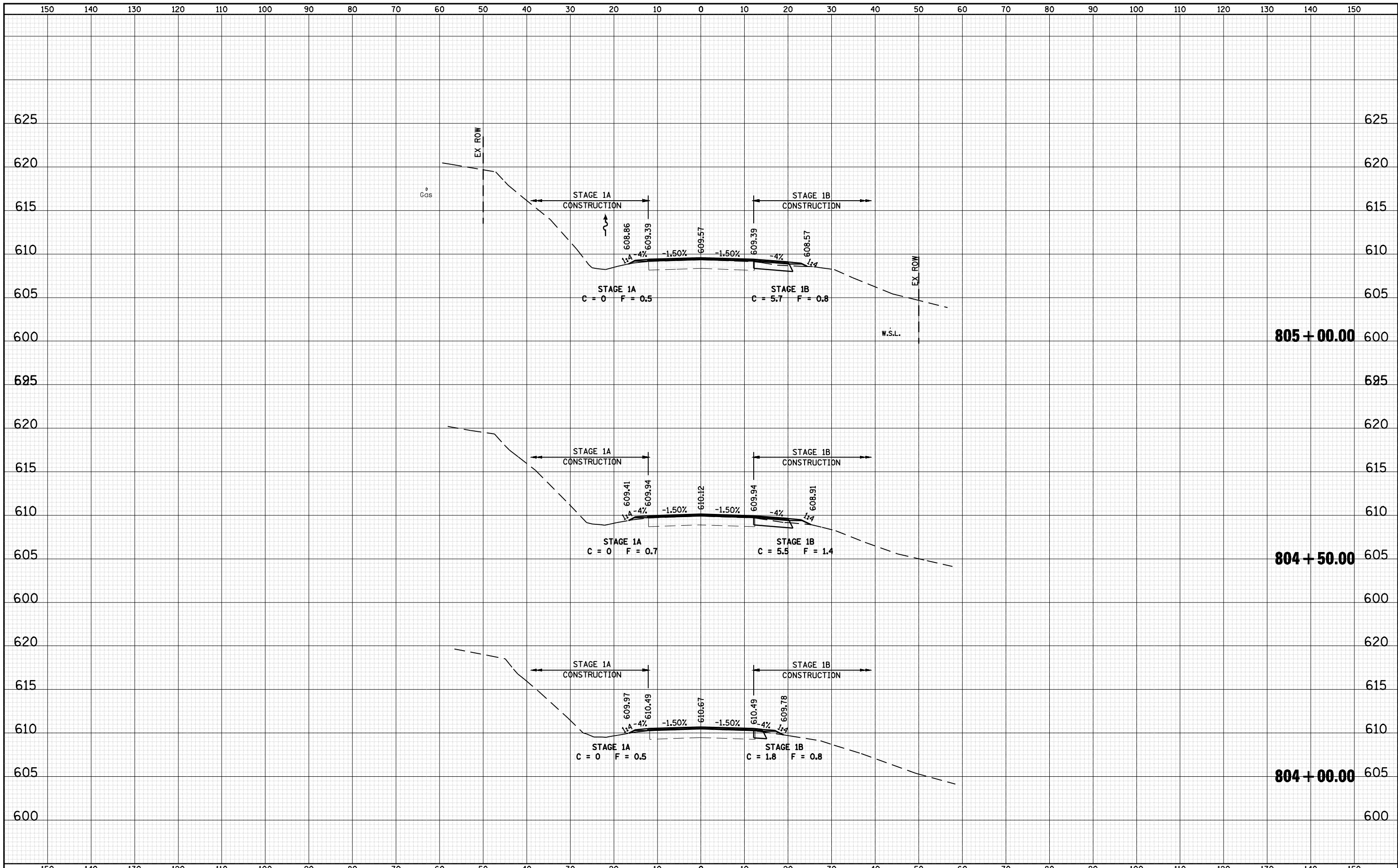
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SHEET NO. 4 OF 5 SHEETS	F.A.P. RTE.	SECTION	COUNTY	TOTAL	SHEET NO.
	325	114 (B-1)	MACOUPIN	57	42
FED. ROAD DIST. NO.			ILLINOIS FED. AID PROJECT		
CONTRACT NO. 72646					

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

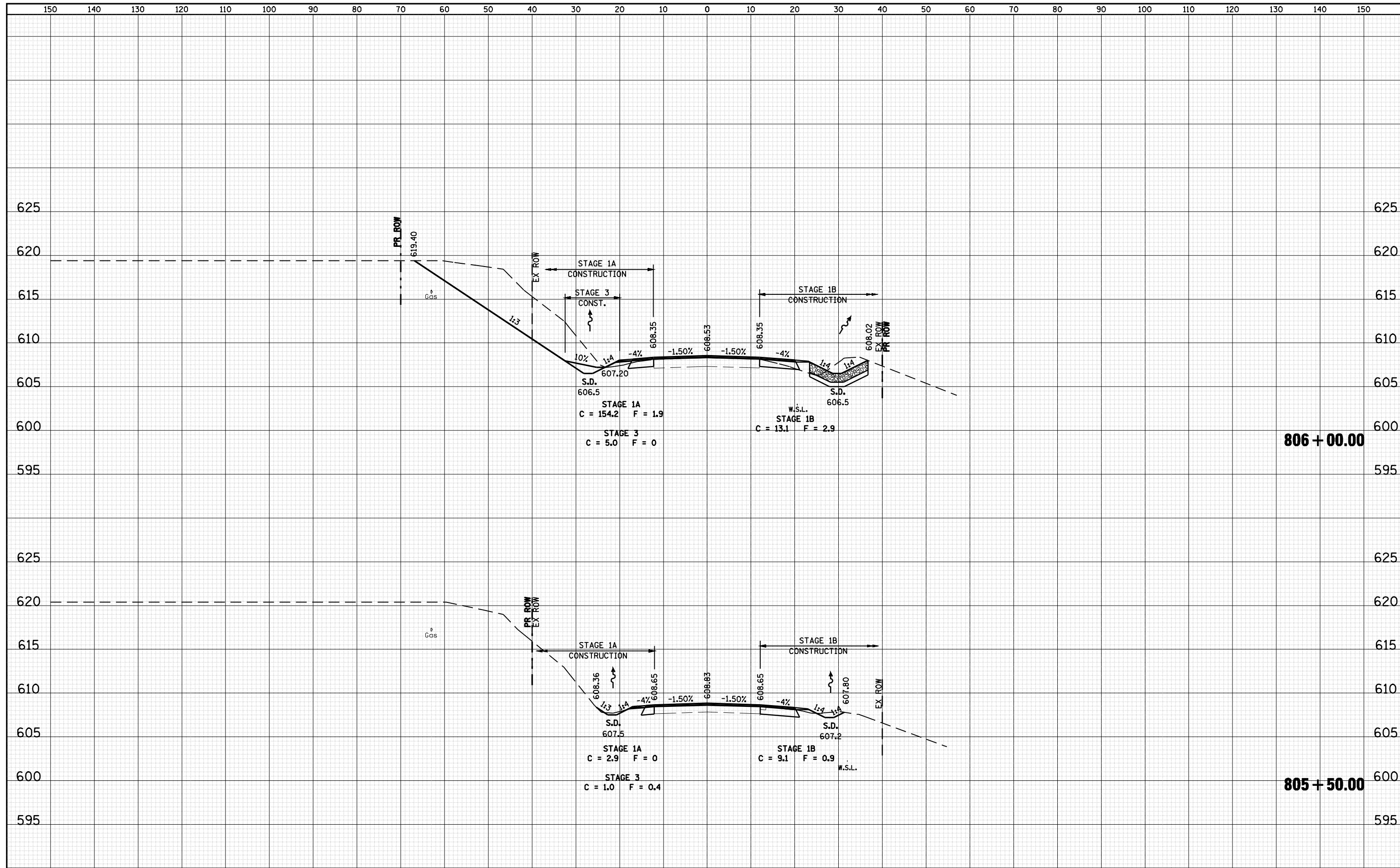
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ORIGINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
NO.	TEMPLATE
	AREAS CHECKED



FILE NAME =	USER NAME = laughlinr1	DESIGNED -	REVISIED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	CROSS SECTIONS - IL RTE 16 (FAP 325)			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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PLOT DATE = Oct-21-2009 11:11:56AM		DATE -	REVISIED -		ILLINOIS FED. AID PROJECT							

DATE	
BY	
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NOTE BOOK	PLOTTED
NO.	TEMPLATE
	AREAS CHECKED

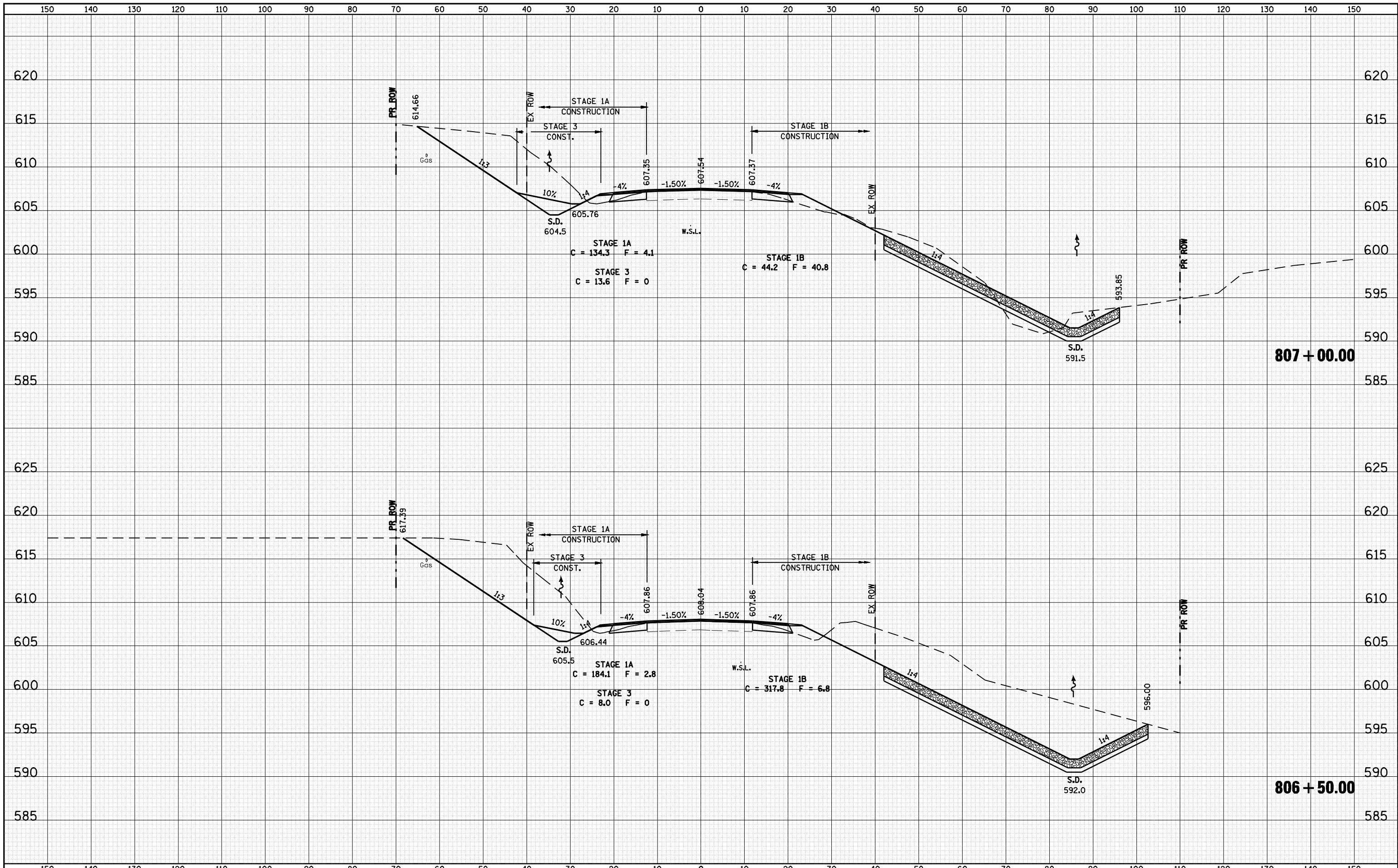
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NOTE BOOK	PLOTTED
NO.	TEMPLATE
	AREAS CHECKED



FILE NAME =	USER NAME = laughlinr1	DESIGNED -	REVISD -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	CROSS SECTIONS - IL RTE 16 (FAP 325)			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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PLOT DATE = Oct-21-2009 11:2:00AM	DATE -	REVISD -	ILLINOIS FED. AID PROJECT									
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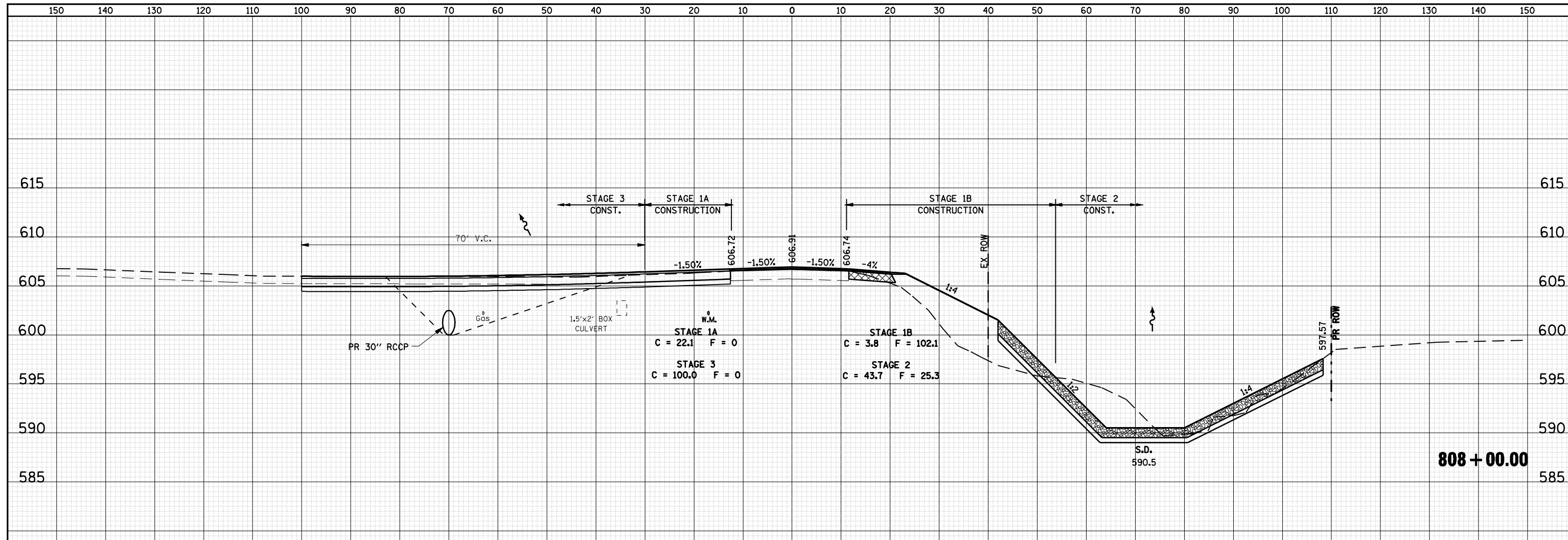
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FINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
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NOTE BOOK	PLOTTED
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	AREAS CHECKED

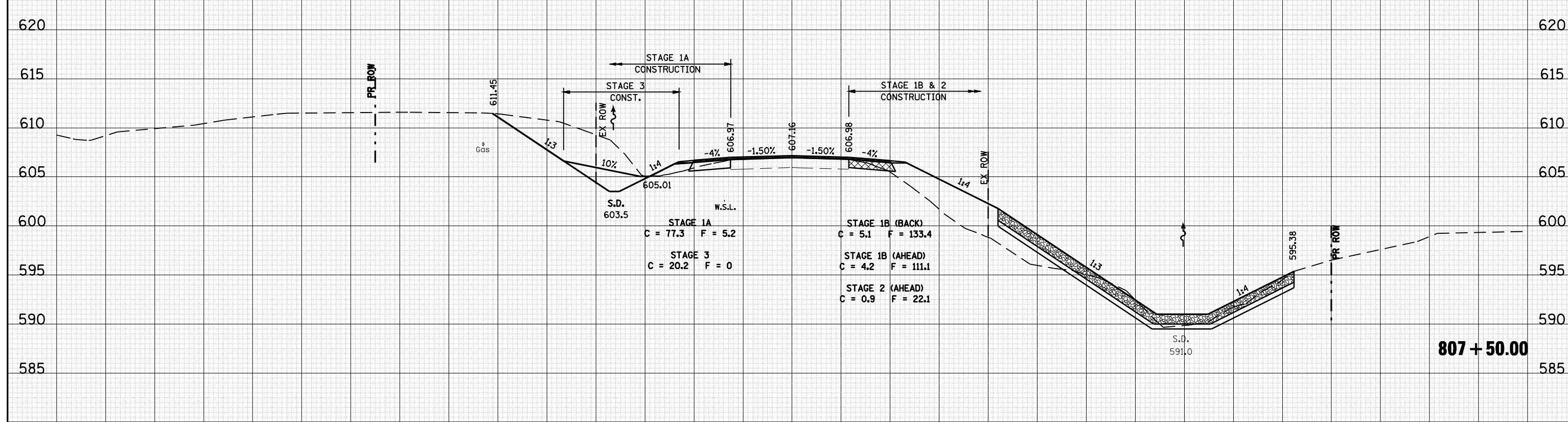


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PLOT DATE = Oct-21-2009 11:20:34AM		DATE -	REVISIED -		ILLINOIS FED. AID PROJECT							

DATE	
BY	
FINAL SURVEY	
SURVEYED	
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TEMPLATE	
NOTE BOOK	
AREAS CHECKED	
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DATE	
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ORIGINAL SURVEY	
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NOTE BOOK	
AREAS CHECKED	
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 PLOT DATE = Oct-21-2009 11:20:07AM

DESIGNED -
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 DATE -

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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

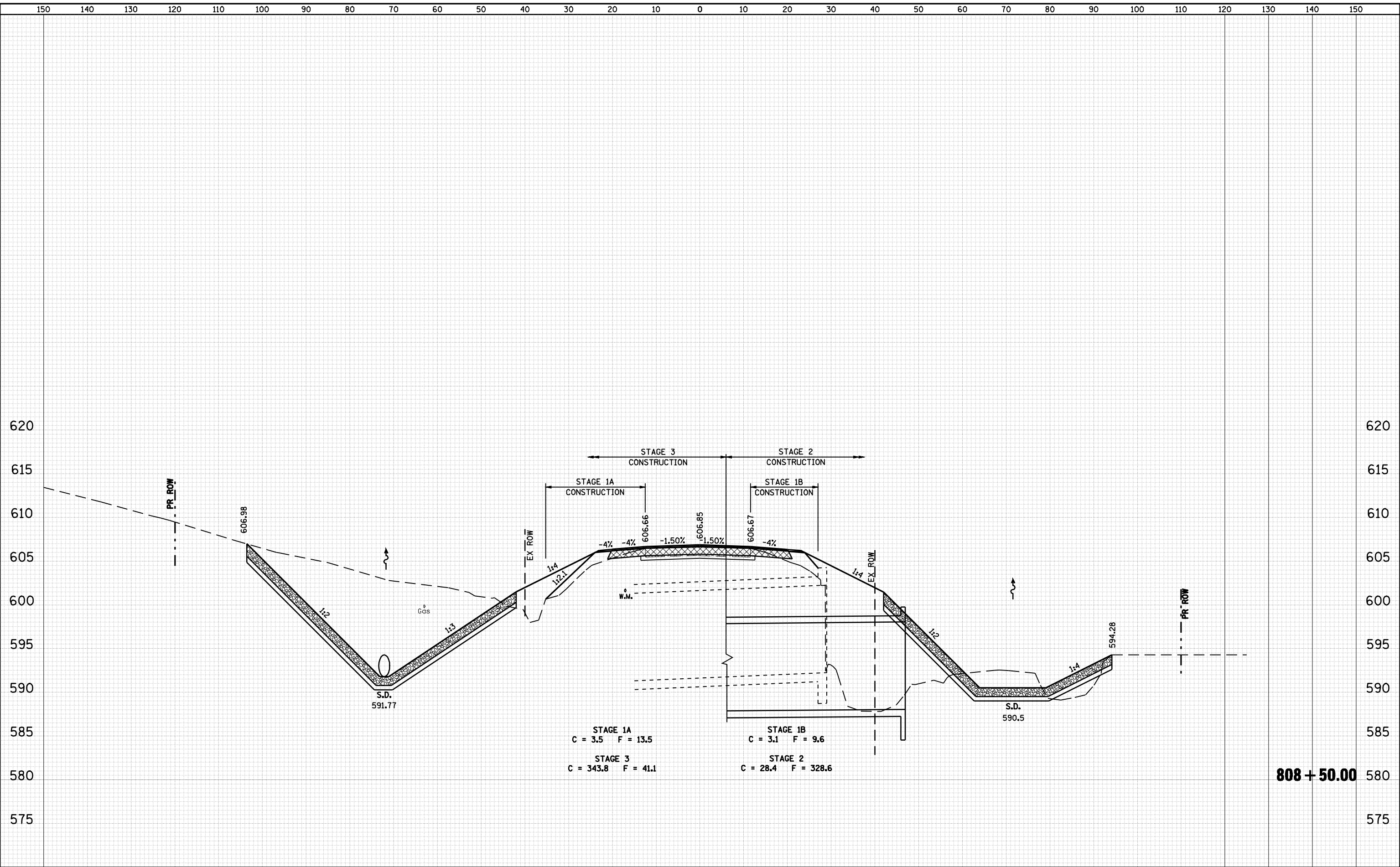
CROSS SECTIONS - IL RTE 16 (FAP 325)

SCALE: SHEET NO. OF SHEETS STA. 807+50.00 TO STA. 808+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
325	114 (B-1)	MACOUPIN	57	47
CONTRACT NO. 72646			ILLINOIS FED. AID PROJECT	

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



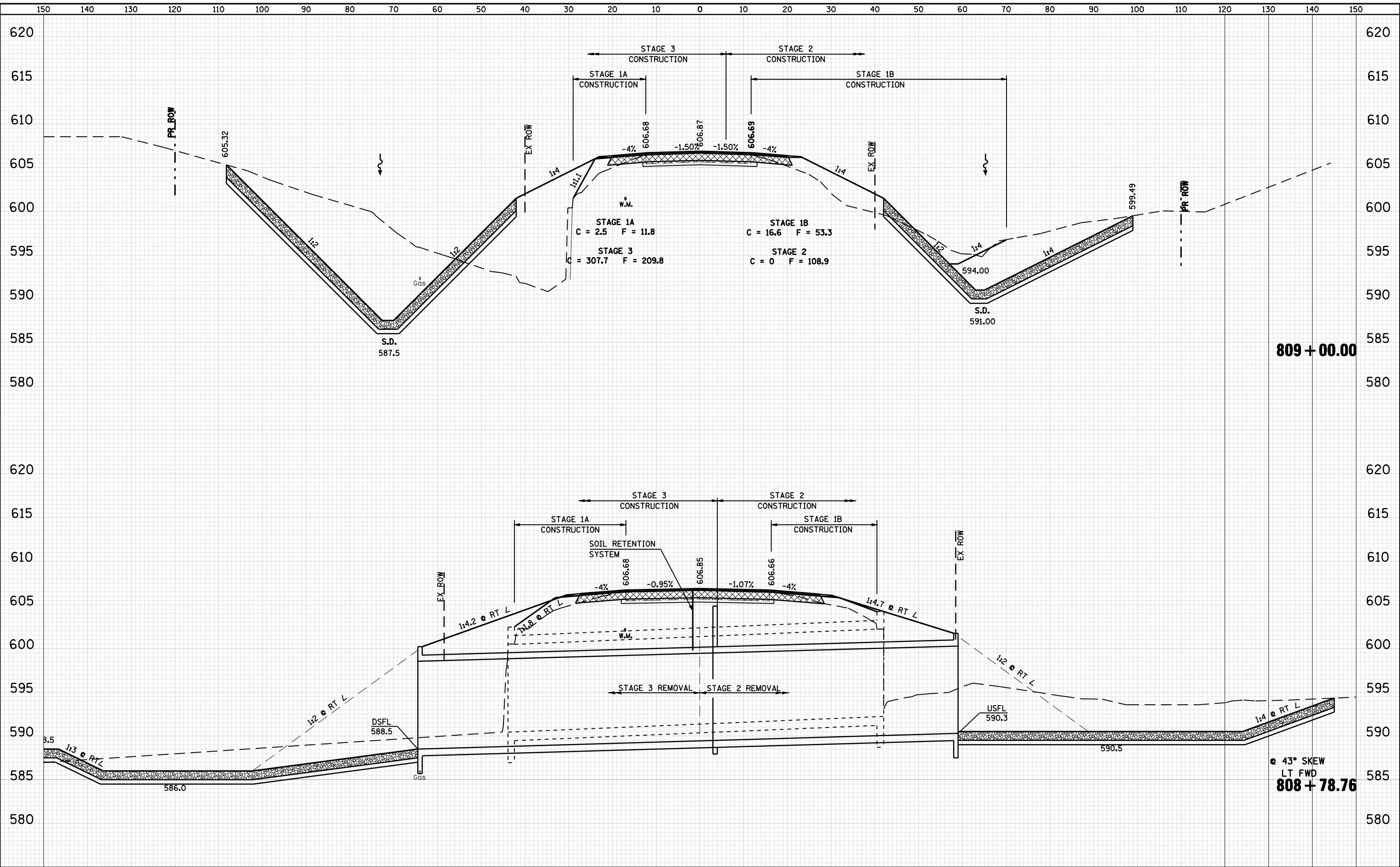
STAGE 1A
 C = 3.5 F = 13.5
 STAGE 1B
 C = 3.1 F = 9.6
 STAGE 2
 C = 28.4 F = 328.6
 STAGE 3
 C = 343.8 F = 41.1

808 + 50.00

FILE NAME =	USER NAME = #USER#	DESIGNED -	REVISIED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	CROSS SECTIONS - IL RTE 16 (FAP 325)	F.A.P. RTE. 325	SECTION 114 (B-1)	COUNTY MACOUPIN	TOTAL SHEETS 57	SHEET NO. 48		
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		DATE -	REVISIED -									

DATE	
BY	
FINAL SURVEY	
NOTE BOOK	
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TEMPLATE	
AREAS	
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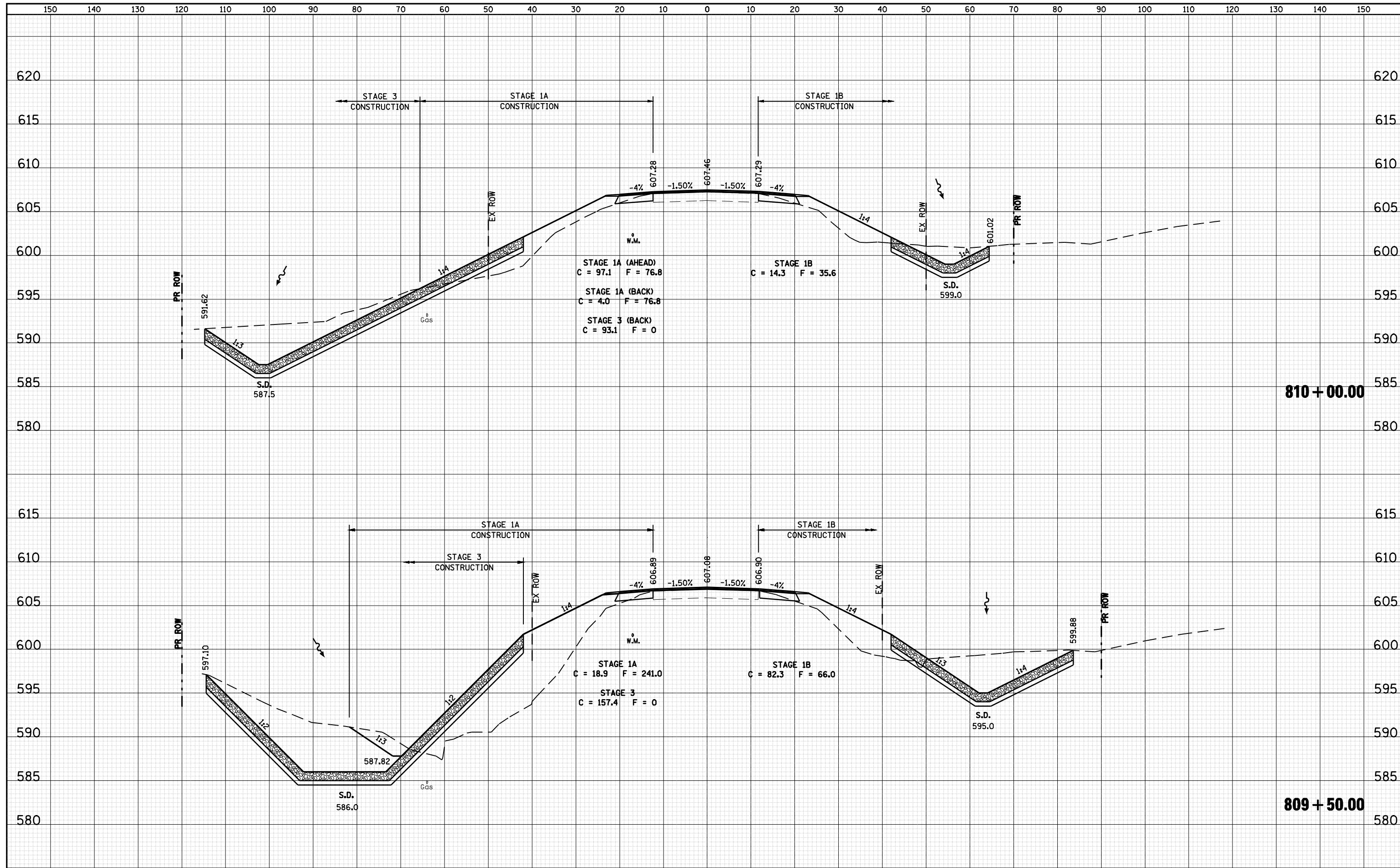
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BY	
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NOTE BOOK	
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SURVEYED	
PLOTTED	
TEMPLATE	
AREAS	
CHECKED	



FILE NAME =	USER NAME = #USER#	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	CROSS SECTIONS - IL RTE 16 (FAP 325)	F.A.P. RTE. 325	SECTION 114 (B-1)	COUNTY MACOUPIN	TOTAL SHEETS 57	SHEET NO. 49		
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		CHECKED -	REVISED -			ILLINOIS FED. AID PROJECT						
		DATE -	REVISED -									

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

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



FILE NAME =
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USER NAME = laughlinr1	DESIGNED -	REVISED -
PLOT SCALE = 20.0000' / IN.	DRAWN -	REVISED -
PLOT DATE = Oct-21-2009 11:21:19AM	CHECKED -	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

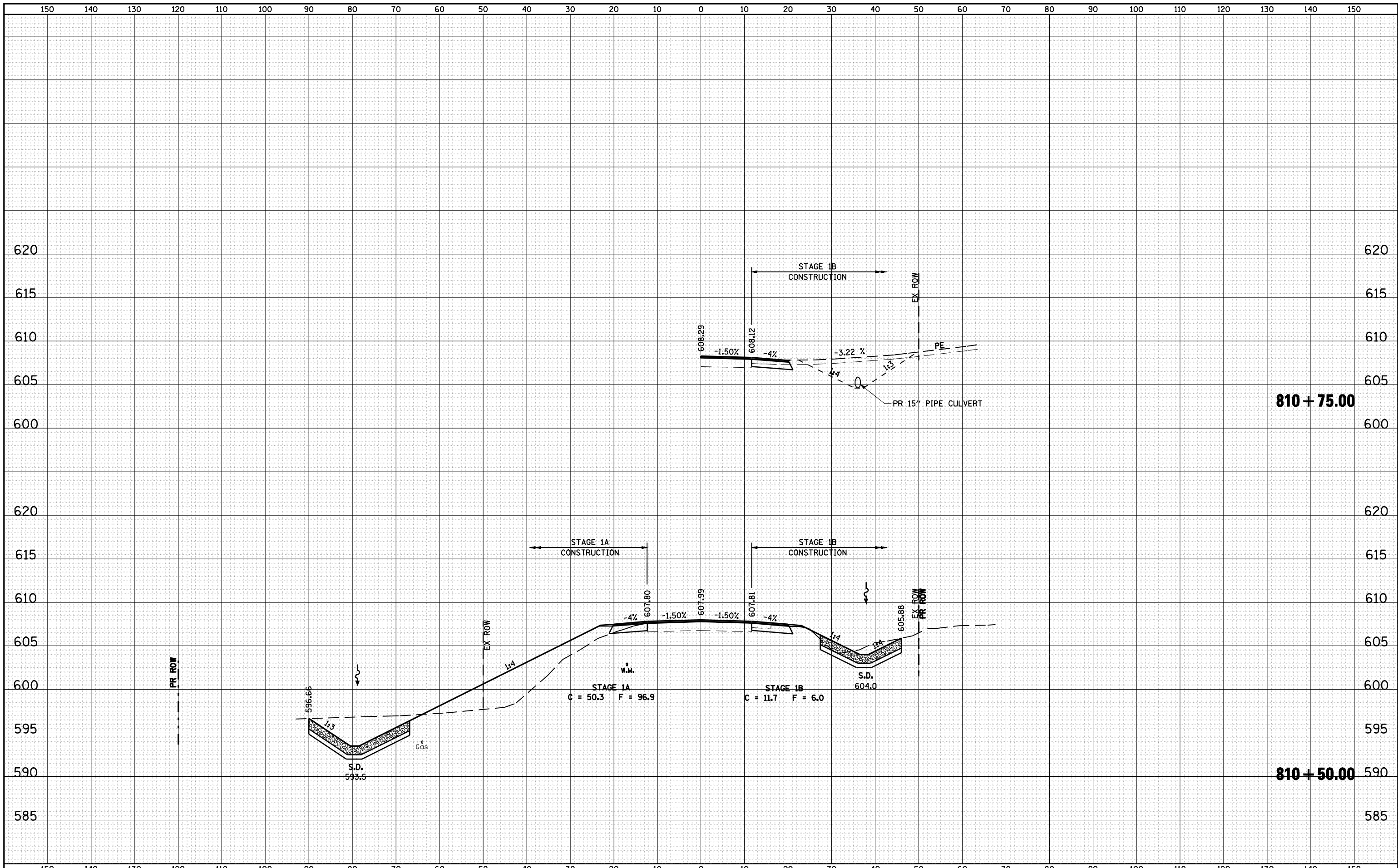
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SCALE: SHEET NO. OF SHEETS STA. 809+50.00 TO STA. 810+00.00

F.A.P. RTE. 325	SECTION 114 (B-1)	COUNTY MACOUPIN	TOTAL SHEETS 57	SHEET NO. 50
CONTRACT NO. 72646			ILLINOIS FED. AID PROJECT	

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NOTE BOOK	PLOTTED
NO.	AREAS CHECKED

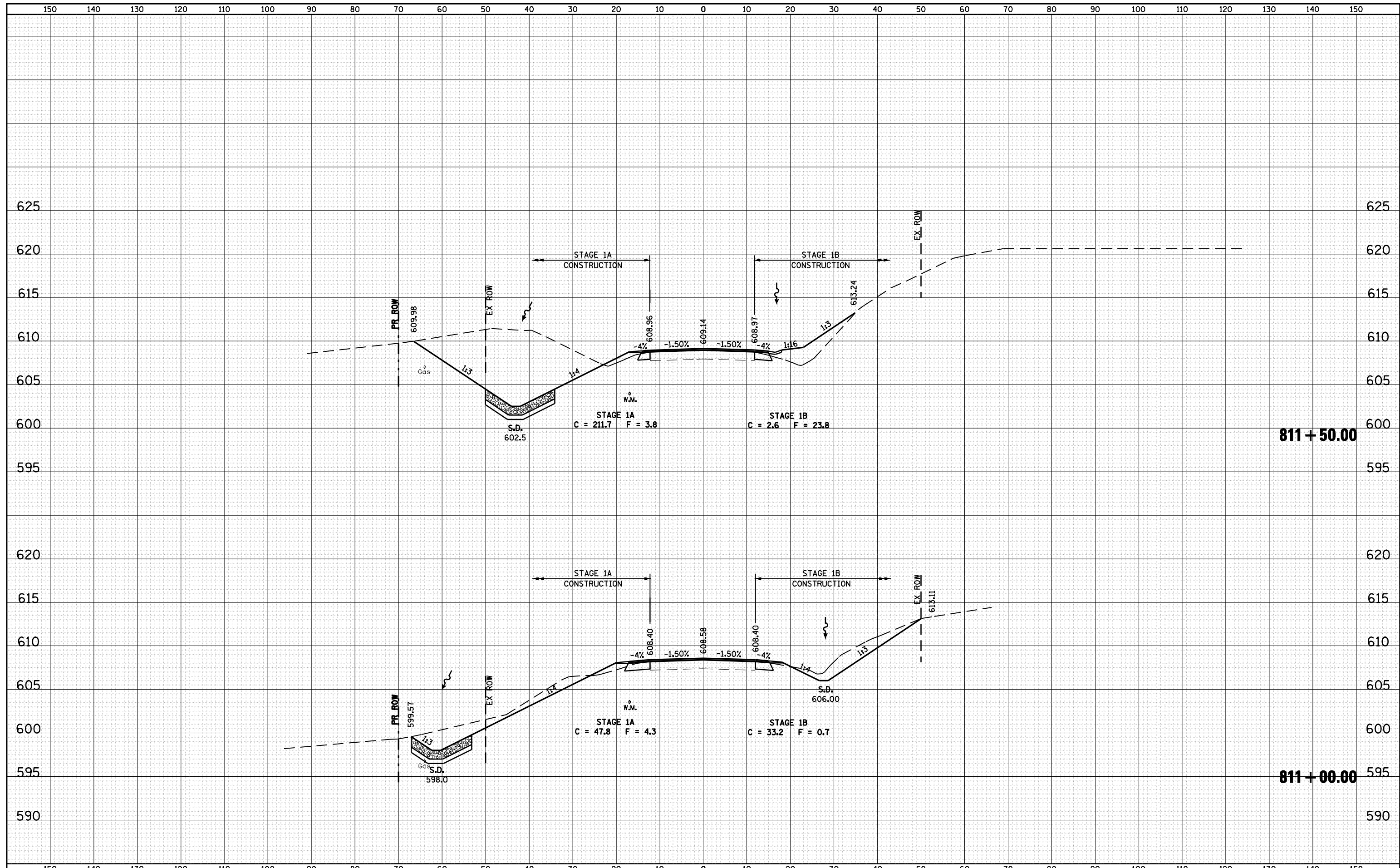
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NOTE BOOK	PLOTTED
NO.	AREAS CHECKED



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c:\pwork\pwork\LAUGHLINR1\0169540\5081X501.dgn		DRAWN -	REVISED -					325	114 (B-1)	MACOUPIN	57	51
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PLOT DATE = Oct-21-2009 11:23:30AM		DATE -	REVISED -		ILLINOIS FED. AID PROJECT							

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NOTE BOOK	PLOTTED
NO.	AREAS CHECKED

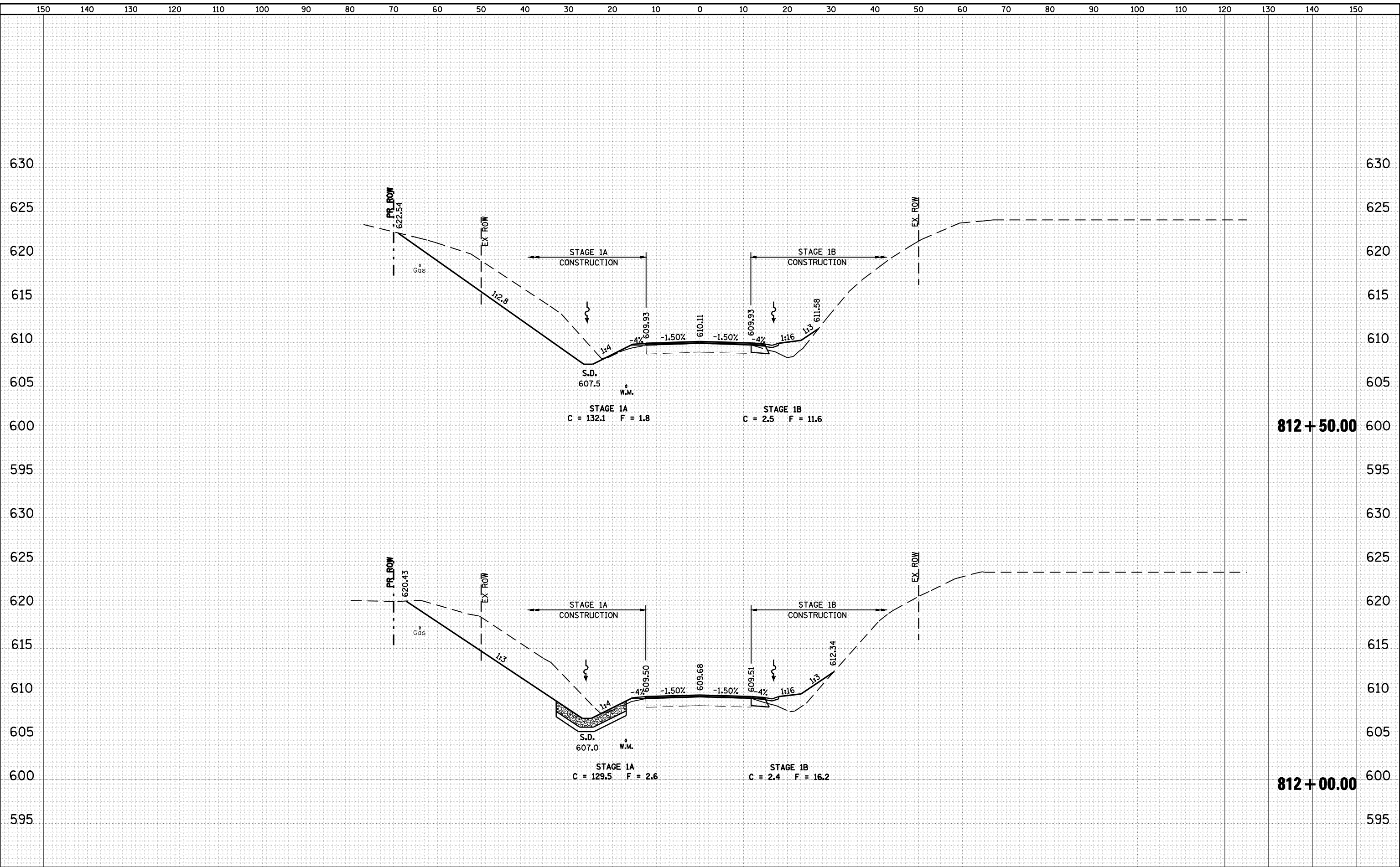
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NOTE BOOK	PLOTTED
NO.	AREAS CHECKED



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PLOT DATE = Oct-21-2009 11:23:33AM	DATE -	CHECKED -	REVISED -		CONTRACT NO. 72646			ILLINOIS FED. AID PROJECT				
		DATE -	REVISED -		SCALE:	SHEET NO.	OF SHEETS	STA. 811+00.00	TO STA. 811+50.00			

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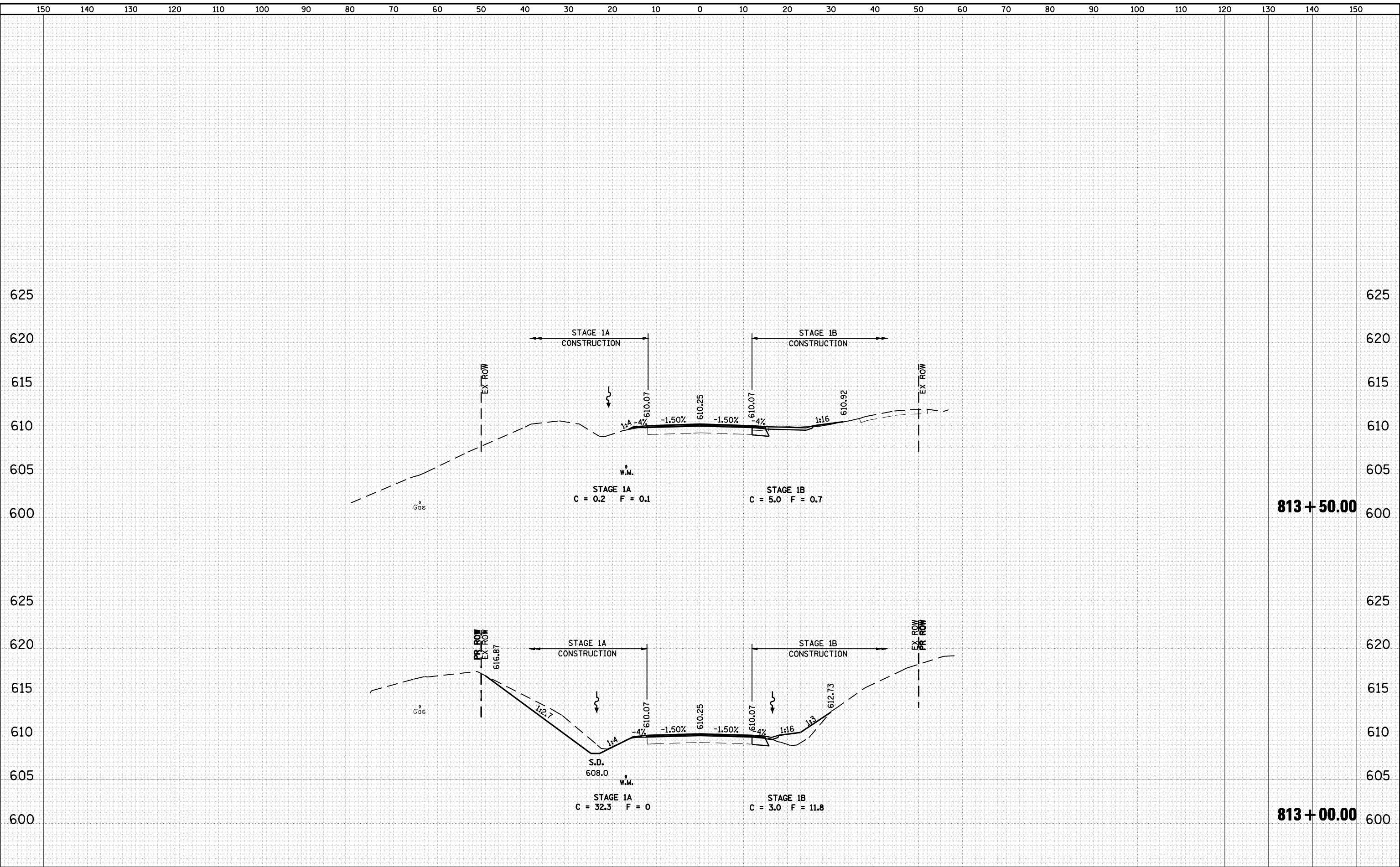
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NOTE BOOK	PLOTTED
NO.	TEMPLATE
	AREAS
	CHECKED



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FILEL		DRAWN -	REVISIED -		SCALE:	SHEET NO.	OF SHEETS	STA. 812+00.00	TO STA. 812+50.00	CONTRACT NO. 72646
		CHECKED -	REVISIED -							ILLINOIS FED. AID PROJECT
		DATE -	REVISIED -							

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BY	
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TEMPLATE	
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AREAS CHECKED	
FINAL SURVEY NOTE BOOK NO.	

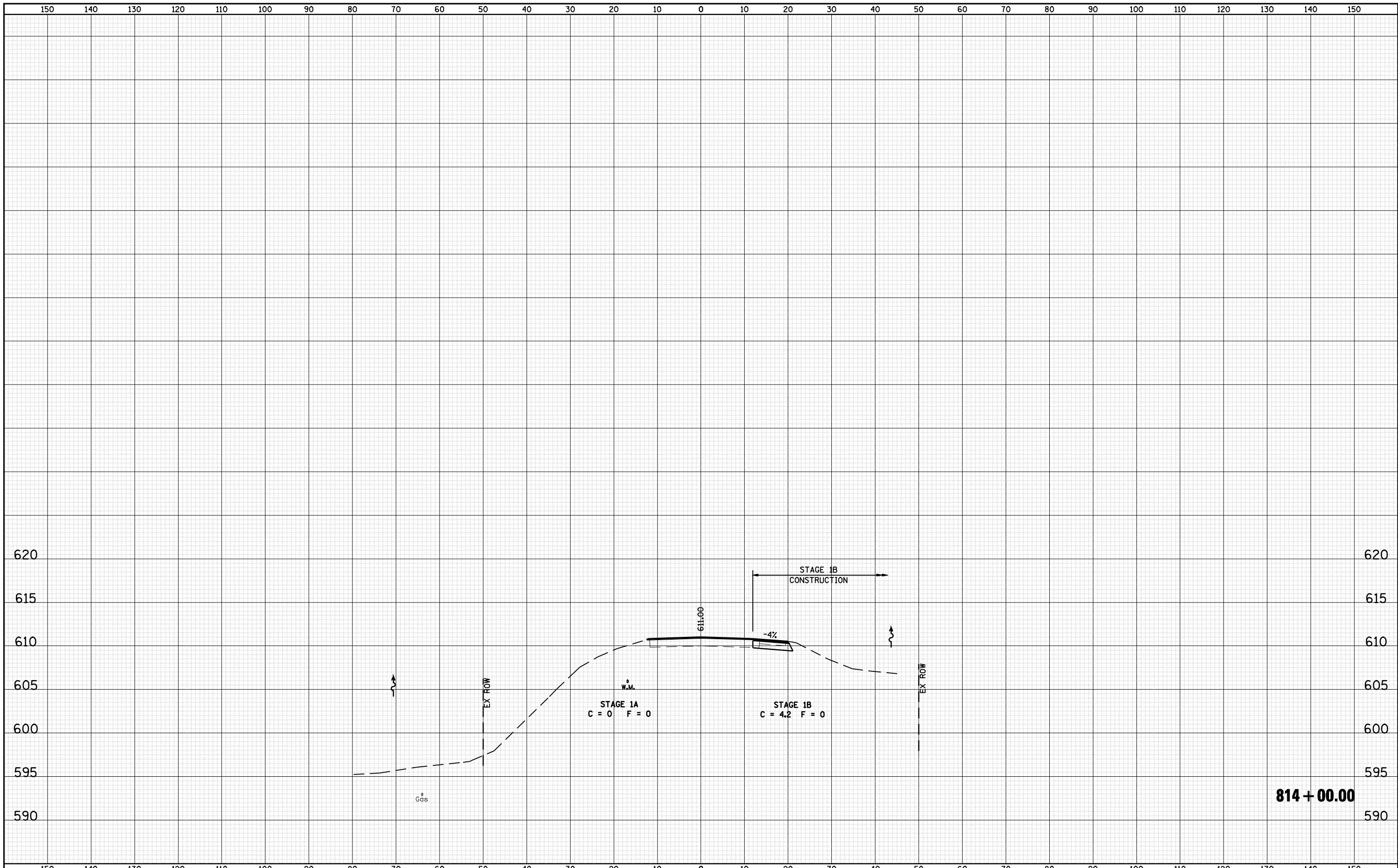
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FILE NAME =	USER NAME = #USER#	DESIGNED -	REVISIED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	CROSS SECTIONS - IL RTE 16 (FAP 325)	F.A.P. RTE. 325	SECTION 114 (B-1)	COUNTY MACOUPIN	TOTAL SHEETS 57	SHEET NO. 54		
FILEL	PLOT SCALE = #SCALE#	DRAWN -	REVISIED -			SCALE:	SHEET NO. OF SHEETS	STA. 813+00.00	TO STA. 813+50.00	ILLINOIS FED. AID PROJECT		
	PLOT DATE = #DATE#	CHECKED -	REVISIED -							CONTRACT NO. 72646		
		DATE -	REVISIED -									

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

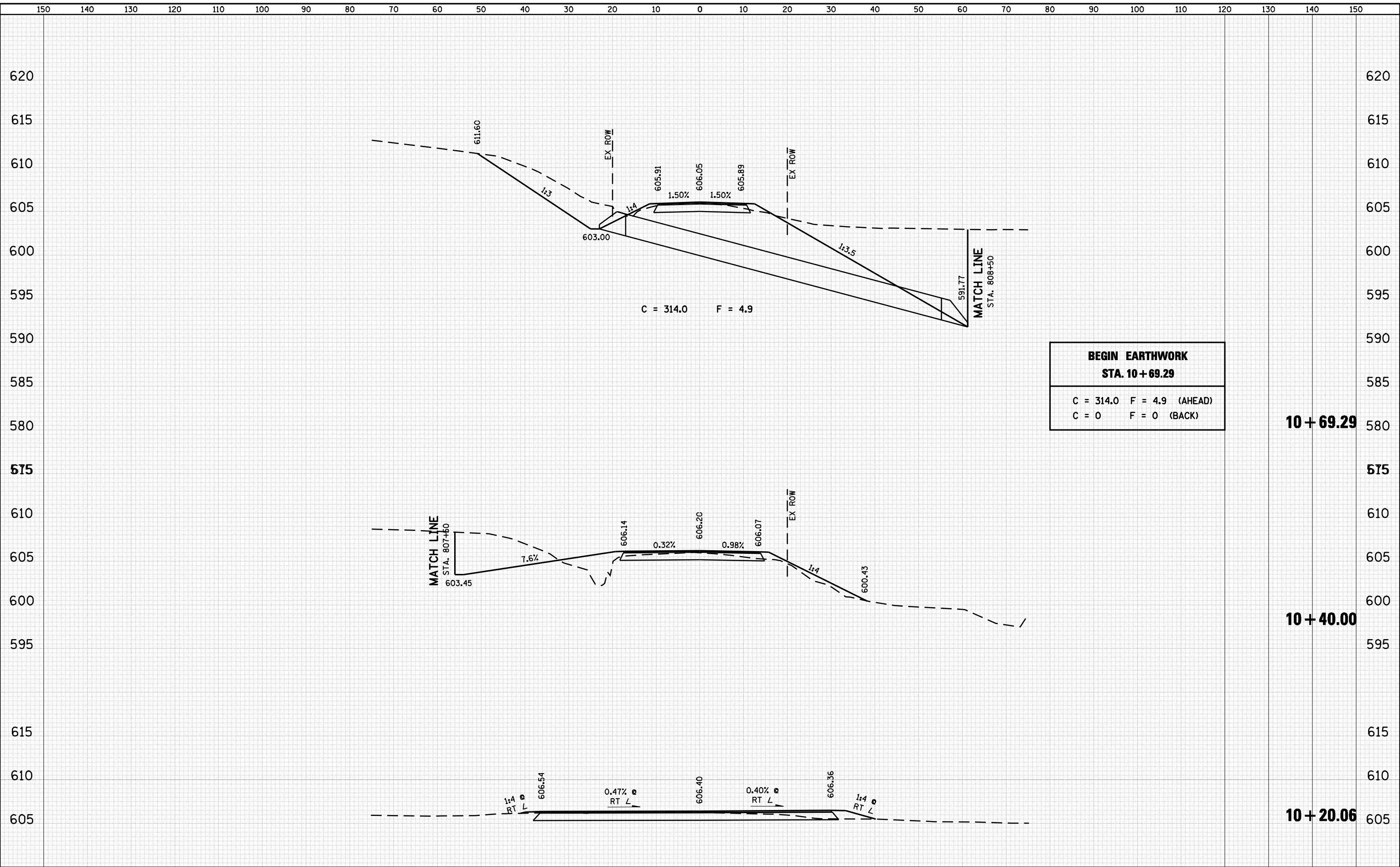
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ORIGINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
NO.	TEMPLATE
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c:\pwork\pwork\LAUGHLINRL\0169540\5081X501.dgn	DRAWN -	REVISIED -	325					114 (B-1)	MACOUPIN	57	55	
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DATE	
BY	
FINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
NO.	TEMPLATE
	AREAS
	CHECKED

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



BEGIN EARTHWORK
STA. 10+69.29
 C = 314.0 F = 4.9 (AHEAD)
 C = 0 F = 0 (BACK)

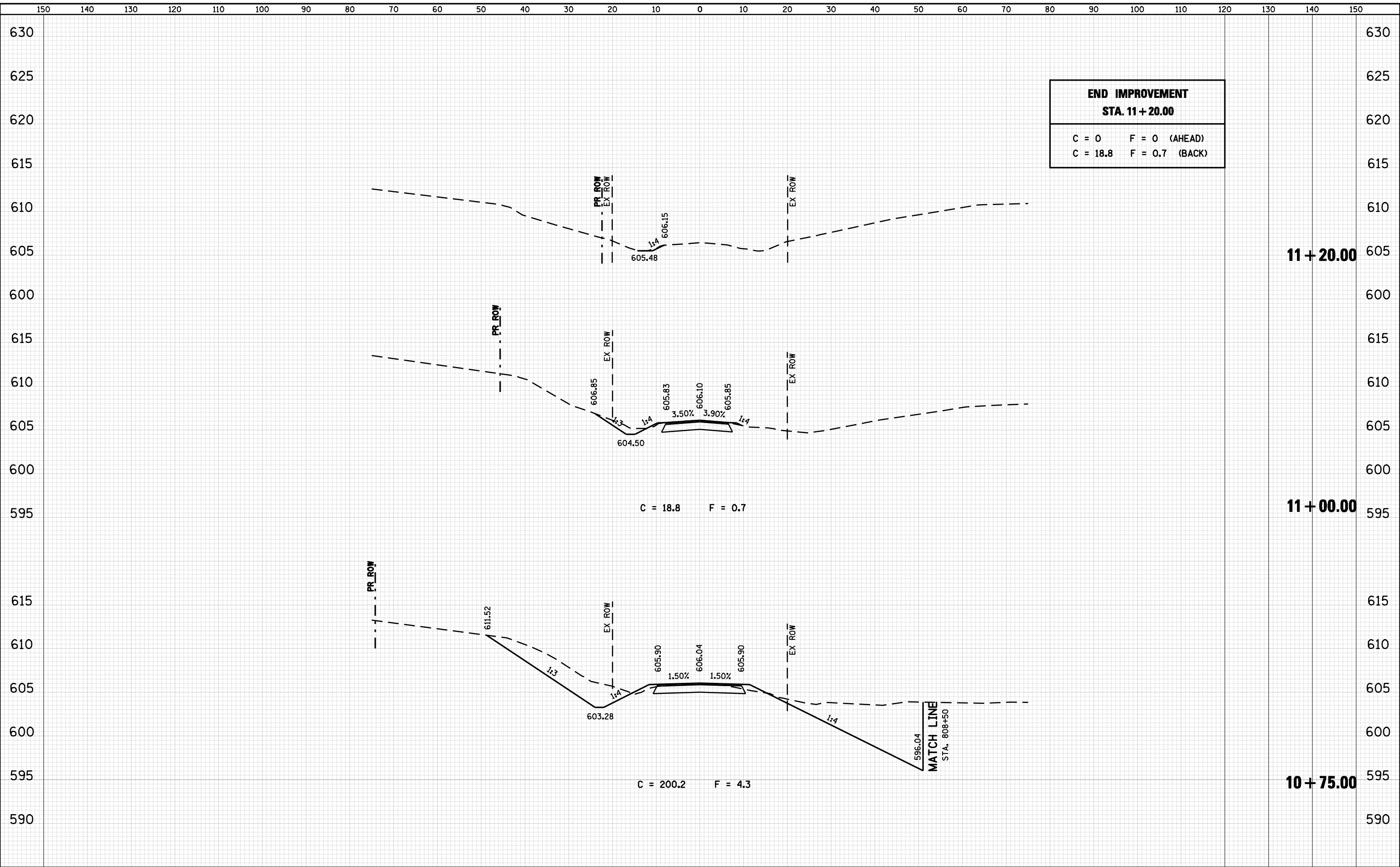
10+69.29

10+40.00

10+20.06

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

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



END IMPROVEMENT
STA. 11 + 20.00
 C = 0 F = 0 (AHEAD)
 C = 18.8 F = 0.7 (BACK)

FILE NAME =	USER NAME = *USER*	DESIGNED -	REVISIED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	CROSS SECTIONS - WREN ROAD			F.A.P. RTE. 325	SECTION 114 (B-1)	COUNTY MACOUPIN	TOTAL SHEETS 57	SHEET NO. 57
FILEL		DRAWN -	REVISIED -		SCALE:	SHEET NO.	OF SHEETS	STA. 10+75.00	TO STA. 11+20.00	CONTRACT NO. 72646		
		CHECKED -	REVISIED -		ILLINOIS FED. AID PROJECT							
		DATE -	REVISIED -									