CONSTRUCTION PROJECT MANAGER : RICK ANDERSON (309) 693-7615

SEE SHEET 2 FOR INDEX OF SHEETS AND LIST OF STANDARDS

F.A.S RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2801	(102B)B-1	EFFINGHAM	51 ✱	1
FED. ROAD DIST. NO. 7	ILLINOIS	CONTRACT NO. 74232		

✱51+4=55

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

PROPOSED
HIGHWAY PLANS

F.A.S. ROUTE 2801 (IL. RTE. 128)
SECTION (102B)B–1
PROJECT: ACRS-2801(101)
EFFINGHAM COUNTY
C–97–034–07

IL. RTE. 128 OVER WOLF CREEK
BRIDGE REPLACEMENT

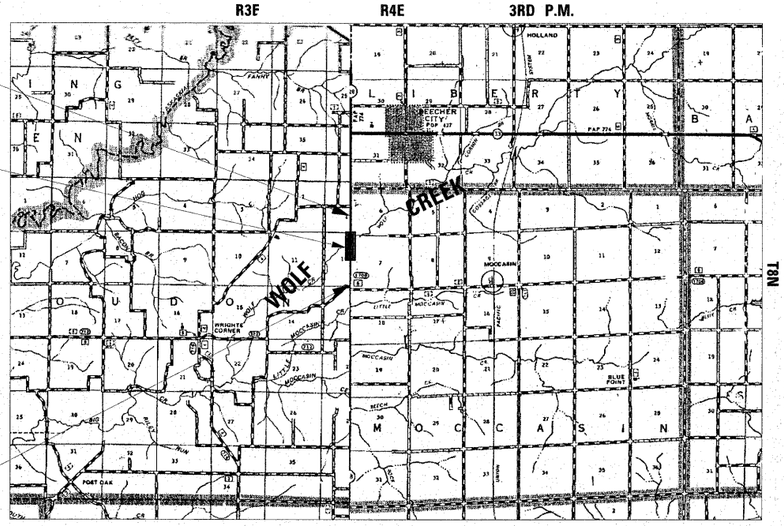
D–97–020–07

LOCATION OF SECTION INDICATED THUS: – ■ –

BEGIN IMPROVEMENTS
STA. 968 + 50.00

PROJECT LOCATION:
SECTION (102B)B–1
REMOVE AND REPLACE
BRIDGE CARRYING IL 128
OVER WOLF CREEK
EX. S.N. 025–0046
PR. S.N. 025–0105
STA. 974 + 76.00

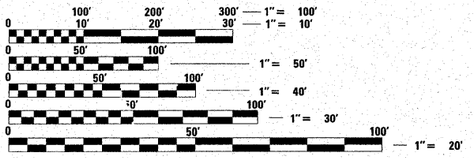
END IMPROVEMENTS
STA. 980 + 50.00



LOCATION MAP

GROSS LENGTH OF IMPROVEMENT = 1200 FEET = 0.23 MILES
NET LENGTH OF IMPROVEMENT = 1200 FEET = 0.23 MILES

ADT = 1550
TOWNSHIPS:
MOCCASIN IN EFFINGHAM COUNTY
LOUDON IN FAYETTE COUNTY



FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

J.U.L.I.E.
JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION
1–800–892–0123
OR 811

CONTRACT NO. 74232

PREPARED BY:

MAURER ▲ STUTZ, INC.
ENGINEERS SURVEYORS
7615 NORTH HARKER DRIVE
PEORIA, ILLINOIS 61615
TEL 309–693–7615
FAX 309–693–7616

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

SUBMITTED December 12 20 08
Roger L. Driskell
DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER
January 30, 20 09
Charles J. Ingersoll
ENGINEER OF DESIGN AND ENVIRONMENT
January 30, 20 09
Christine M. Reed (R)
DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

PROJECT ENGINEER: TOM RONAN (217) 342-8320
SQUAD LEADER: JENNIFER WENTHE (217) 342-8361

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701001-02
701011-02
701301-03

RATES OF APPLICATION

THE FOLLOWING FACTORS WERE USED FOR ESTIMATING PLAN QUANTITIES AND SHALL NOT BE USED FOR THE BASIS OF FINAL QUANTITIES.

HOT-MIX ASPHALT	112 LB/SQ YD/IN
PRIME COAT FOR HOT-MIX ASPHALT:	
ON EXISTING PAVEMENT	0.05 GAL/SQ YD
ON MILLED SURFACE	0.1 GAL/SQ YD
FOG COAT ON NEW BINDER	0.03 GAL/SQ YD
AGGREGATE (PRIME COAT):	
ON NEW BINDER	2 LB/SQ YD
ON MILLED SURFACE	4 LB/SQ YD

THE FOLLOWING MIXTURE REQUIREMENTS ARE APPLICABLE FOR THIS PROJECT:

LOCATION(S):	MAINLINE	MAINLINE	MAINLINE	MAINLINE
MIXTURE USE(S):	HMA BINDER COURSE, IL 19.0, N70	HMA SHOULDER	HMA BASE COURSE WIDENING	HMA SURFACE COURSE
AC/PG:	PG 64-22	PG58-22	PG64-22	PG64-22
DESIGN AIP VOIDS:	4.0% @ N70	4.0% @ N30	4.0% @ N70	4.0% @ N70
MIXTURE COMPOSITION (GRADATION):	IL 19.0	IL-19.0L	IL 19.0	IL 9.5
FRICTION AGGREGATE:	N/A	N/A	N/A	MIX C

GENERAL NOTES

1. THIS SECTION SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE PLANS: THE "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION", ADOPTED JANUARY 1, 2007: THE "SUPPLEMENTAL SPECIFICATIONS AND RECURRING SPECIAL PROVISIONS": AND THE SPECIAL PROVISIONS INCLUDED IN THE PROPOSAL.

2. THE WORK IN THIS SECTION, (102B)B-1, CONSISTS OF THE COMPLETE REMOVAL AND REPLACEMENT OF THE EXISTING STRUCTURE WITH A 2-SPAN 54" PCC I BEAM ON INTEGRAL ABUTMENTS, APPROACH PAVEMENTS, FLEXIBLE CONNECTORS, EARTH WORK, HOT-MIX ASPHALT RESURFACING, HOT-MIX ASPHALT SHOULDERS, GUARDRAIL, AND ANY OTHER WORK NECESSARY TO COMPLETE THE SECTION. THIS WORK SHALL BE COMPLETED USING STAGE CONSTRUCTION AND TRAFFIC SIGNALS.

3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR HAVING THE UTILITY COMPANIES LOCATE THEIR FACILITIES ON THE SITE PRIOR TO ANY CONSTRUCTION AND WILL BE HELD RESPONSIBLE FOR THE MAINTENANCE AND PRESERVATION OF THEIR FACILITIES. THE CONTRACTOR ON SITE, SHALL DETERMINE THE EXACT LOCATIONS OF THE UTILITIES. THE CONTRACTOR SHALL CALL J.U.L.I.E. @ 1-800-892-0123 FOR UTILITY LOCATIONS.

4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRS TO ANY UTILITY LINES AND EXISTING IMPROVEMENTS TO REMAIN THAT ARE DAMAGED AS A RESULT OF THE WORK.

5. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS.

6. ACCESS SHALL BE MAINTAINED TO ALL PROPERTIES DURING ALL STAGES OF CONSTRUCTION.

7. THE WORK AREA SHALL BE POSITIVELY DRAINED DURING CONSTRUCTION. FINAL GRADES SHALL BE PROTECTED AGAINST DAMAGE FROM EROSION, SEDIMENTATION, AND TRAFFIC.

8. WHERE PROPOSED CONSTRUCTION ABUTS EXISTING APPURTENANCES, A SAW-CUT SHALL BE MADE TO ACHIEVE A NEAT BUTT JOINT. THE SAW-CUT IS TO BE INCLUDED IN THE COST OF THE HOT-MIX ASPHALT SURFACE REMOVAL BUTT JOINT.

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 WITNESS OR OTHERWISE REFERENCED THEIR LOCATION.

10. IN ADDITION TO SURVEYS, SOME OF THE PLAN DIMENSIONS AND DETAILS RELATIVE TO EXISTING CONDITIONS HAVE BEEN TAKEN FROM EXISTING PLANS AND ARE SUBJECT TO NOMINAL CONSTRUCTION VARIATIONS. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO VERIFY SUCH DIMENSIONS IN THE FIELD. SUCH VARIATIONS SHALL NOT BE CAUSE FOR ADDITIONAL COMPENSATION DUE TO A CHANGE IN THE SCOPE OF WORK. THE CONTRACTOR WILL BE PAID FOR THE QUANTITY ACTUALLY FURNISHED AT THE UNIT PRICE BID FOR THE WORK.

11. THE PROPOSED PARAPET WALLS SHALL NOT BE CONSTRUCTED BY SLIP FORMING.

12. THE CONTRACTOR SHALL USE EITHER RC-70 OR AN EMULSIFIED POLYMER PRIME SS-1HP FOR THE PAY ITEM BITUMINOUS MATERIALS (PRIME COAT).

13. THE CONTRACTOR SHALL PROVIDE INTERNET ACCESSIBILITY TO THE BITUMINOUS PLANT QUALITY CONTROL LAB SO THAT THE BITUMINOUS PLANT REPORTS CAN BE E-MAILED TO THE DISTRICT HEAD-QUARTERS. THIS WORK SHALL BE INCLUDED IN THE COST OF ALL BITUMINOUS ITEMS.

14. THE BASE COURSE WIDENING SHALL, AT THE CONTRACTOR'S OPTION, BE CONSTRUCTED OF EITHER PORTLAND CEMENT CONCRETE, 8" THICK, OR HOT-MIX ASPHALT, 10" THICK. ANY EXCAVATION AND PAVED SHOULDER REMOVAL REQUIRED FOR PLACEMENT OF THE BASE COURSE WIDENING SHALL BE INCLUDED IN THE COST OF BASE COURSE WIDENING.

15. THE PAY ITEM TEMPORARY RAMP HAS BEEN INCLUDED FOR THE CONSTRUCTION OF TEMPORARY RAMPS IN ACCORDANCE WITH ARTICLE 406.08 OF THE STANDARD SPECIFICATIONS. THE COST SHALL INCLUDE BOTH THE INSTALLATION AND THE REMOVAL OF THE TEMPORARY RAMPS.

16. IN THE AREAS OF THE GUARDRAIL STABILIZATION THE EXCAVATION OF THE MATERIALS FOR THE STABILIZATION AREAS ARE INCLUDED IN THE PAY ITEM OF HOT-MIX ASPHALT SHOULDERS.

17. PAINT PAVEMENT MARKING-LINE 4" SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE STANDARDS, AS SHOWN ON THE TYPICAL SECTIONS, AND AS DETERMINED BY THE ENGINEER. THE TOTAL QUANTITY CALCULATED CONSIST OF 2400 FEET OF WHITE AND 1171 FEET OF YELLOW.

18. SHORT TERM PAVEMENT MARKING SHALL BE APPLIED TO THE MILLED SURFACE, BITUMINOUS MATERIALS (PRIME COAT), AND HOT-MIX ASPHALT SURFACE COURSE AS SPECIFIED IN SECTION 703 OF THE STANDARD SPECIFICATIONS. TEMPORARY TAPE SHALL BE USED ON THE SURFACE COURSE AND PAINT SHALL BE USED ON THE MILLED SURFACES.

19. TEMPORARY EROSION CONTROL SEEDING IS INCLUDED IN THIS CONTRACT TO SEED NEW EARTH SHOULDERS DURING TIME PERIODS WHEN PERMANENT SEEDING IS NOT ALLOWED. SOME OR ALL OF THE CLASS 7 SEEDING WILL BE DELETED IF IT IS POSSIBLE TO PLACE PERMANENT SEEDING ON EARTH SHOULDERS AT THE TIME OF THEIR COMPLETION.

20. A TYPE II CAST IN PLACE PERMANENT SURVEY MARKER SHALL BE PLACED AT THE STRUCTURE. THE LOCATION OF THE SURVEY MARKER SHALL BE DETERMINED BY THE ENGINEER OR THE CHIEF OF SURVEYS.

21. THE CONTRACTOR SHALL BE RESPONSIBLE FOR RELOCATING SIGNS OR DELIVERING EXISTING SIGNS TO THE IDOT DISTRICT 7 SIGN SHOP AS DIRECTED BY THE ENGINEER. THE COST FOR THIS WORK SHALL BE INCLUDED IN THE COST OF THE TRAFFIC CONTROL ITEMS.

Rev.

FILE NAME = $FILEL$	USER NAME = $USER$	DESIGNED -	REVISED -
		DRAWN - WLL 10/07/08	REVISED -
	PLOT SCALE = $SCALE$	CHECKED - GBM 10/14/08	REVISED -
	PLOT DATE = $DATE$	DATE - 10/15/08	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL 128 OVER WOLF CREEK
GENERAL NOTES

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

r.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2801	(102B)B-1	EFFINGHAM	51	2
		CONTRACT NO. 74232		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

SUMMARY OF QUANTITIES		UNIT	TOTAL QUANTITY	CONSTRUCTION TYPE CODE 80% FED/20% STATE	
CODE NO.	ITEM			ROADWAY I000-2A	BRIDGE X081-2A
20200100	EARTH EXCAVATION	CU YD	980	980	
20400800	FURNISHED EXCAVATION	CU YD	3445	3445	
20700400	POROUS GRANULAR EMBANKMENT, SPECIAL	CU YD	116		116
25001000	SEEDING, CLASS 2 (SPECIAL)	ACRE	0.90	0.90	
25100630	EROSION CONTROL BLANKET	SQ YD	4119	4119	
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	270	270	
28000300	TEMPORARY DITCH CHECKS	EACH	2	2	
28000400	PERIMETER EROSION BARRIER	FOOT	1677	1677	
28100107	STONE RIPRAP, CLASS A4	SQ YD	2219	1060	1159
28200200	FILTER FABRIC	SQ YD	2219	1060	1159
35650700	BASE COURSE WIDENING	SQ YD	512	512	
40600100	BITUMINOUS MATERIALS (PRIME COAT)	GALLON	274	274	
40600300	AGGREGATE (PRIME COAT)	TON	4	4	
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SQ YD	149	149	
40600990	TEMPORARY RAMP	SQ YD	412	412	
40603085	HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70	TON	740	740	
40603315	HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N70	TON	264	264	
42001165	BRIDGE APPROACH PAVEMENT	SQ YD	222	222	
42001430	BRIDGE APPROACH PAVEMENT CONNECTOR (FLEXIBLE)	SQ YD	44	44	
44000100	PAVEMENT REMOVAL	SQ YD	237	237	
44000198	HOT-MIX ASPHALT SURFACE REMOVAL, VARIABLE DEPTH	SQ YD	813	813	
44000400	GUTTER REMOVAL	FOOT	917	917	
44002600	GUTTER OUTLET REMOVAL	FOOT	150	150	
44200156	PAVEMENT PATCHING, TYPE II, 13 INCH	SQ YD	85	85	
44200160	PAVEMENT PATCHING, TYPE III, 13 INCH	SQ YD	32	32	
44200162	PAVEMENT PATCHING, TYPE IV, 13 INCH	SQ YD	47	47	
48203100	HOT-MIX ASPHALT SHOULDERS	TON	133	133	
50100100	REMOVAL OF EXISTING STRUCTURES	EACH	1		1
50105220	PIPE CULVERT REMOVAL	FOOT	85	85	
50200100	STRUCTURE EXCAVATION	CU YD	169		169
50300225	CONCRETE STRUCTURES	CU YD	115		115.0
50300255	CONCRETE SUPERSTRUCTURE	CU YD	258.6		258.6

SUMMARY OF QUANTITIES		UNIT	TOTAL QUANTITY	CONSTRUCTION TYPE CODE 80% FED/20% STATE	
CODE NO.	ITEM			ROADWAY I000-2A	BRIDGE X081-2A
50300260	BRIDGE DECK GROOVING	SQ YD	837		837
50300280	CONCRETE ENCASEMENT	CU YD	8.6		8.6
50300300	PROTECTIVE COAT	SQ YD	839		839
50401105	FURNISHING AND ERECTING PRECAST PRESTRESSED CONCRETE I-BEAMS, 54 IN.	FOOT	1136		1136
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	68140		68140
50800515	BAR SPLICERS	EACH	675		675
51201610	FURNISHING STEEL PILES HP12X63	FOOT	360		360
51201900	FURNISHING STEEL PILES HP14X89	FOOT	308		308
51202305	DRIVING PILES	FOOT	220		220
51203610	TEST PILE STEEL HP12X63	EACH	1		1
51500100	NAME PLATES	EACH	1		1
59100100	GEOCOMPOSITE WALL DRAIN	SQ YD	84		84
60100905	PIPE DRAINS 4"	FOOT	283	283	
60109580	PIPE UNDERDRAINS FOR STRUCTURES, 4"	FOOT	154		154
60500060	REMOVING INLETS	EACH	4	4	
60600095	CLASS SI CONCRETE (OUTLET)	CU YD	13.7	13.7	
60602800	CONCRETE GUTTER, TYPE B	FOOT	605.0	605.0	
* 63000001	STEEL PLATE BEAM GUARD RAIL, TYPE A, 6 FOOT POSTS	FOOT	350	350	
* 63100041	TRAFFIC BARRIER TERMINAL, TYPE 1B	EACH	1	1	
* 63100085	TRAFFIC BARRIER TERMINAL, TYPE 6	EACH	4	4	
* 63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	3	3	
63200310	GUARDRAIL REMOVAL	FOOT	328	328	
63300575	REMOVE AND RE-ERECT RAIL ELEMENT OF EXISTING GUARD RAIL	FOOT	176	176	
66600105	FURNISHING AND ERECTING RIGHT-OF-WAY MARKERS	EACH	11	11	
66700305	PERMANENT SURVEY MARKERS, TYPE II	EACH	1	1	
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	6	6	
67100100	MOBILIZATION	L SUM	1	1	
35650450	BASE COURSE WIDENING REMOVAL	SQ YD	101	101	
70100450	TRAFFIC CONTROL AND PROTECTION, STANDARD 701201	L SUM	1	1	

* SPECIALTY ITEMS

FILE NAME = $FILEL$	USER NAME = $USER$	DESIGNED - WLL 10/06/08	REVISED -
		DRAWN - JDS 10/15/08	REVISED -
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	PLOT DATE = $DATE$	DATE - 10/15/08	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL 128 OVER WOLF CREEK
SUMMARY OF QUANTITIES

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

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2801	(102B)B-1	EFFINGHAM	51	3
		CONTRACT NO. 74232		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

SUMMARY OF QUANTITIES

	CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION TYPE CODE 80% FED/20% STATE	
					ROADWAY I000-2A	BRIDGE X081-2A
	70100460	TRAFFIC CONTROL AND PROTECTION, STANDARD 701306	L SUM	1	1	
	70100500	TRAFFIC CONTROL AND PROTECTION, STANDARD 701326	L SUM	1	1	
	70101205	TRAFFIC CONTROL AND PROTECTION, STANDARD 701321 (SPECIAL)	EACH	1		1
	70103815	TRAFFIC CONTROL SURVEILLANCE	CAL DA	10	10	
	70106500	TEMPORARY BRIDGE TRAFFIC SIGNALS	EACH	1	1	
	70106700	TEMPORARY RUMBLE STRIP	EACH	6	6	
	70300100	SHORT-TERM PAVEMENT MARKING	FOOT	480	480	
	70300220	TEMPORARY PAVEMENT MARKING-LINE 4"	FOOT	3571	3571	
	70301000	WORK ZONE PAVEMENT MARKING REMOVAL	SQ FT	40	40	
	70400100	TEMPORARY CONCRETE BARRIER	FOOT	650	650	
	70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	625	625	
*	78001110	PAINT PAVEMENT MARKING-LINE 4"	FOOT	3571	3571	
*	78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	13	13	
*	78100105	RAISED REFLECTIVE PAVEMENT MARKER (BRIDGE)	EACH	2		2
*	78200410	GUARDRAIL MARKERS, TYPE A	EACH	16	16	
*	78201000	TERMINAL MARKER - DIRECT APPLIED	EACH	3	3	
	78300100	PAVEMENT MARKING REMOVAL	SQ FT	470	470	
	X0323988	TEMPORARY SOIL RETENTION SYSTEM	SQ FT	218		218
	X5020501	UNDERWATER STRUCTURE EXCAVATION PROTECTION-LOCATION 1	EACH	1		1
	Z0001900	ASBESTOS BEARING PAD REMOVAL	EACH	88		88
	Z0025500	FURNISHING AND INSTALLING PROPERTY MARKERS	EACH	2	2	
	Z0030250	IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE), TEST LEVEL 3	EACH	2	2	
	Z0030350	IMPACT ATTENUATORS, RELOCATE (NON-REDIRECTIVE), TEST LEVEL 3	EACH	2	2	
	Z0073100	TEMPORARY SHORING	EACH	1		1
*	X0326301	SETTING AND DRIVING PILES IN ROCK, TEST	EACH	12		12
*	X0326317	SETTING AND DRIVING PILES IN ROCK, HP12X63, TEST	EACH	1		1
*	X0326318	SETTING AND DRIVING PILES IN ROCK, HP14X89	EACH	1		1

*SPECIALTY ITEMS

Rev.

FILE NAME = $FILEL$

USER NAME = $USER$ | PLOT SCALE = $SCALE$ | PLOT DATE = $DATE$

DESIGNED - WLL 10/06/08 | DRAWN - RJA 10/07/08 | CHECKED - GBM 10/14/08 | DATE - 10/15/08

REVISED - | REVISED - | REVISED - | REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL 128 OVER WOLF CREEK
SCHEDULE OF QUANTITIES

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

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2801	(102B)B-1	EFFINGHAM	51	4
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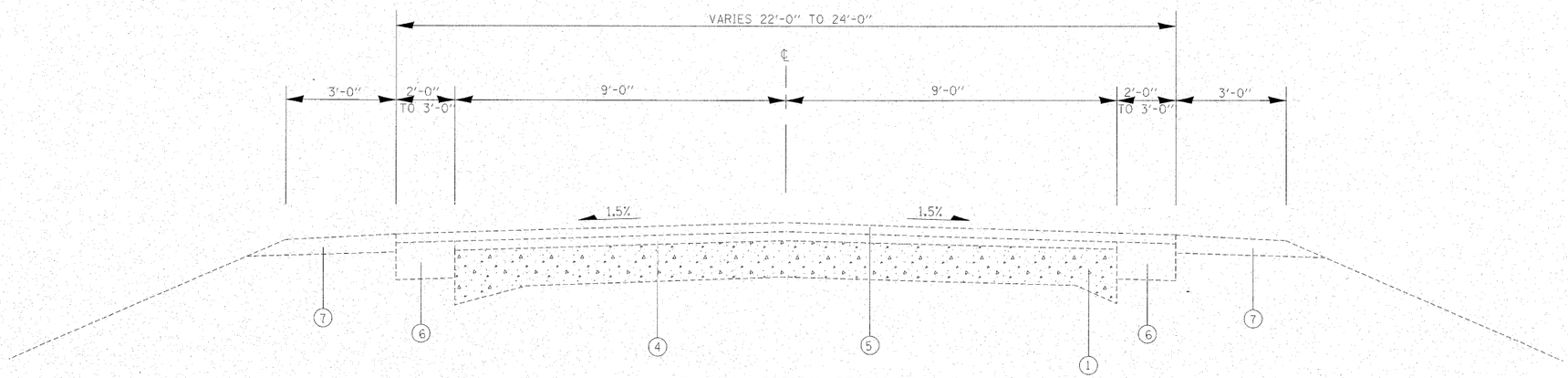
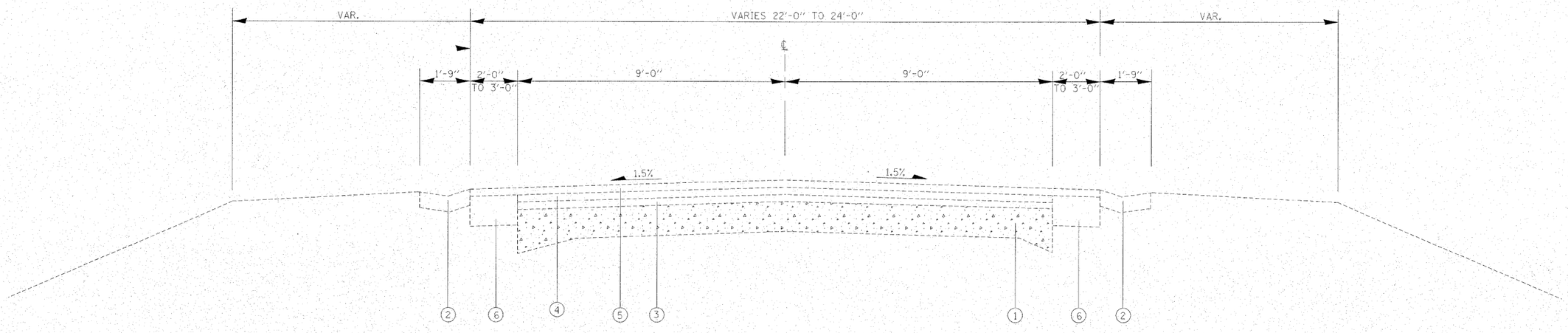


EXISTING TYPICAL SECTION #1

STA. 968+50.00 TO 973+70.58

BRIDGE OMISSION

STA. 973+70.58 TO 975+61.41



EXISTING TYPICAL SECTION #2

STA. 975+61.41 TO 980+50.00

EXISTING LEGEND

1. EXISTING PAVEMENT
2. EXISTING CONCRETE GUTTER, TYPE B
3. EXISTING LEVELING BINDER
4. EXISTING BITUMINOUS CONCRETE BINDER COURSE 1-1/2"
5. EXISTING BITUMINOUS CONCRETE SURFACE COURSE, MIX D, CL. I 1-1/2"
6. EXISTING BITUMINOUS SHOULDER (STANDARD 2239)
7. EXISTING AGGREGATE SHOULDERS

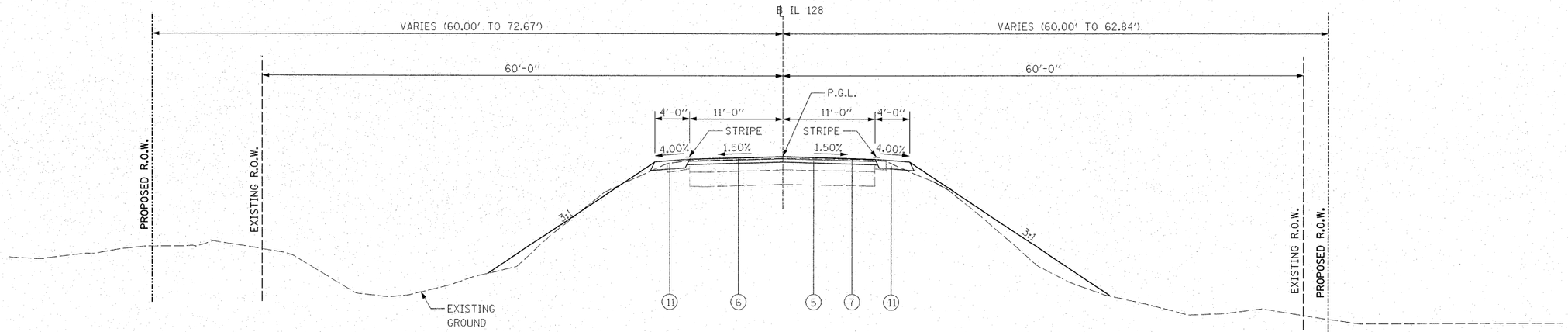
FILE NAME = $FILEL$	USER NAME = $USER$	DESIGNED -	REVISED -
		DRAWN -	REVISED -
	PLOT SCALE = $SCALE$	CHECKED - GBM 10/14/08	REVISED -
	PLOT DATE = $DATE$	DATE - 10/15/08	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL 128 OVER WOLF CREEK
EXISTING TYPICAL SECTIONS

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

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2801	(102B)B-1	EFFINGHAM	51	5
		CONTRACT NO. 74232		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



LEGEND

① EXISTING PAVEMENT
② EXISTING BITUMINOUS CONCRETE BINDER COURSE 1-1/2"
③ EXISTING BITUMINOUS CONCRETE SURFACE COURSE, MIX D, CL. I 1-1/2"
④ EXISTING BITUMINOUS SHOULDER (STANDARD 2239)
⑤ PROPOSED HMA BINDER COURSE, IL 19.0, N70 VAR.
⑥ PROPOSED HMA SURFACE COURSE, MIX C, N70 1-1/2"
⑦ PROPOSED HMA SURFACE REMOVAL, VAR. DEPTH
⑧ PROPOSED BASE COURSE WIDENING
⑨ PROPOSED HMA SHOULDERS (4 1/2")
⑩ PROPOSED CONCRETE GUTTER, TYPE B
⑪ PROPOSED HMA SHOULDERS (6")

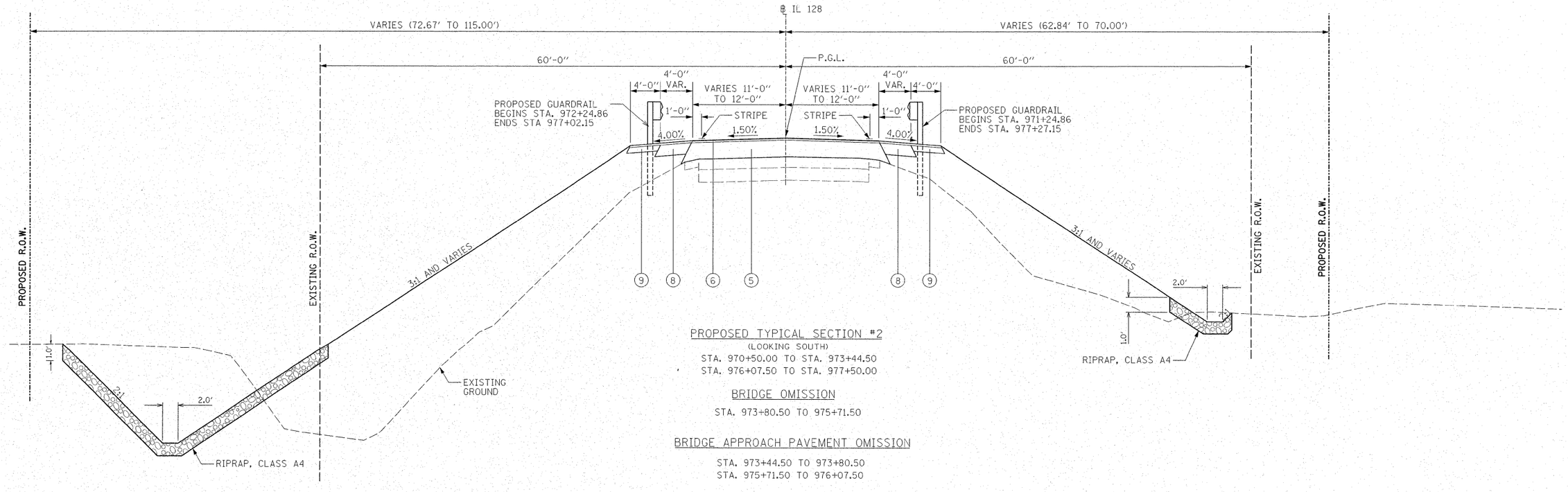
PROPOSED TYPICAL SECTION #1

(LOOKING SOUTH)
STA. 968+50.00 TO STA. 970+50.00

NOTES:

1. SEE CROSS SECTIONS FOR GRADING INFORMATION FROM SHOULDERS.

2. SEE SHEET NO. 7 FOR BENCHING DETAIL.



PROPOSED TYPICAL SECTION #2

(LOOKING SOUTH)
STA. 970+50.00 TO STA. 973+44.50
STA. 976+07.50 TO STA. 977+50.00

BRIDGE OMISSION

STA. 973+80.50 TO 975+71.50

BRIDGE APPROACH PAVEMENT OMISSION

STA. 973+44.50 TO 973+80.50
STA. 975+71.50 TO 976+07.50

FILE NAME = $FILEL$	USER NAME = $USER$	DESIGNED - WLL 10/06/08	REVISED -	**STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION**	**IL 128 OVER WOLF CREEK PROPOSED TYPICAL SECTIONS**
		DRAWN - WLL 10/06/08	REVISED -		
	PLOT SCALE = $SCALE$	CHECKED - GBM 10/14/08	REVISED -		SCALE: SHEET NO. OF SHEETS STA. TO STA.
	PLOT DATE = $DATE$	DATE - 10/15/08	REVISED -		

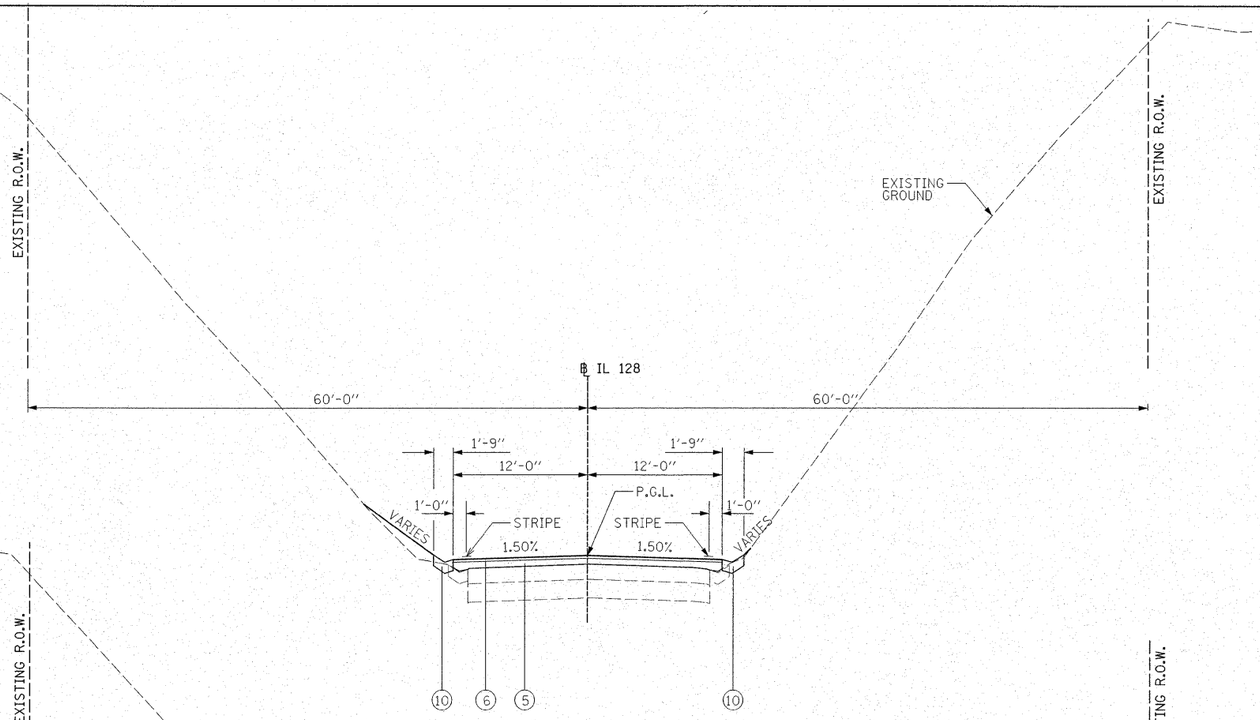
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2801	(102B)B-1	EFFINGHAM	51	6
		CONTRACT NO. 74232		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

NOTES;

1. SEE CROSS SECTIONS FOR GRADING INFORMATION FROM SHOULDERS.

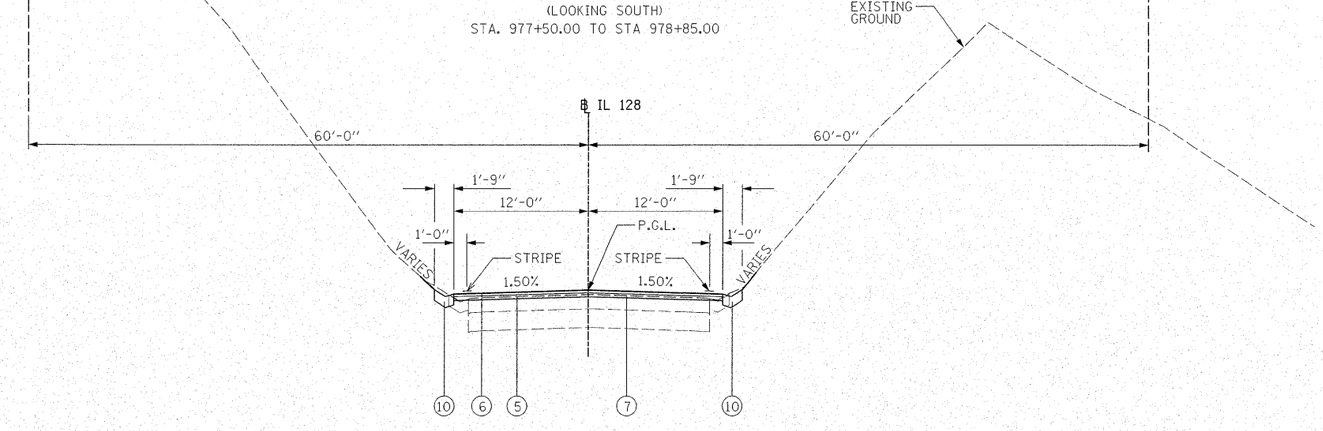
LEGEND

(1) EXISTING PAVEMENT
(2) EXISTING BITUMINOUS CONCRETE BINDER COURSE 1-1/2"
(3) EXISTING BITUMINOUS CONCRETE SURFACE COURSE, MIX D, CL. I 1-1/2"
(4) EXISTING BITUMINOUS SHOULDER (STANDARD 2239)
(5) PROPOSED HMA BINDER COURSE, IL 19.0, N70 VAR.
(6) PROPOSED HMA SURFACE COURSE, MIX C, N70 1-1/2"
(7) PROPOSED HMA SURFACE REMOVAL, VAR. DEPTH
(8) PROPOSED BASE COURSE WIDENING
(9) PROPOSED HMA SHOULDERS (4 1/2")
(10) PROPOSED CONCRETE GUTTER, TYPE B
(11) PROPOSED HMA SHOULDERS (6")



PROPOSED TYPICAL SECTION #3

(LOOKING SOUTH)
STA. 977+50.00 TO STA 978+85.00

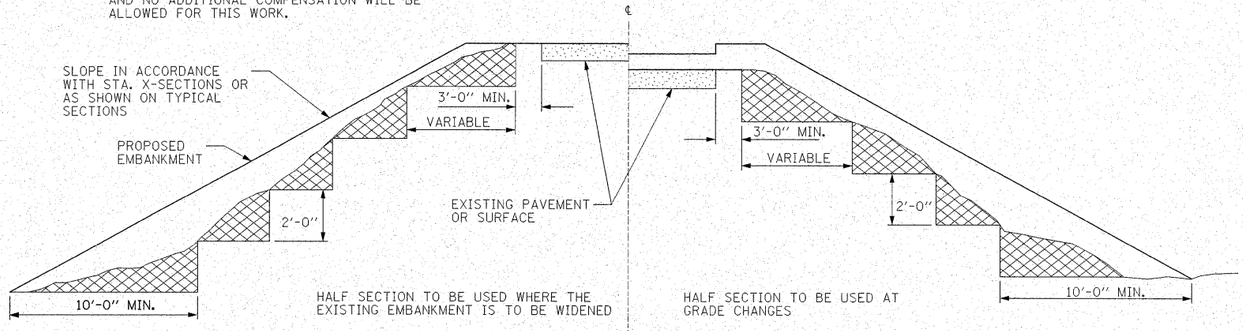


PROPOSED TYPICAL SECTION #4

(LOOKING SOUTH)
STA 978+85.00 TO STA. 980+50.00

BENCHING DETAIL

MATERIAL TO BE REMOVED AND REPLACED IN THE EMBANKMENT IN ACCORDANCE WITH ART. 205.04 OF THE STANDARD SPECIFICATIONS. COST TO BE INCLUDED IN THE VARIOUS ITEMS OF EXCAVATION AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR THIS WORK.



HALF SECTION TO BE USED WHERE THE EXISTING EMBANKMENT IS TO BE WIDENED

HALF SECTION TO BE USED AT GRADE CHANGES

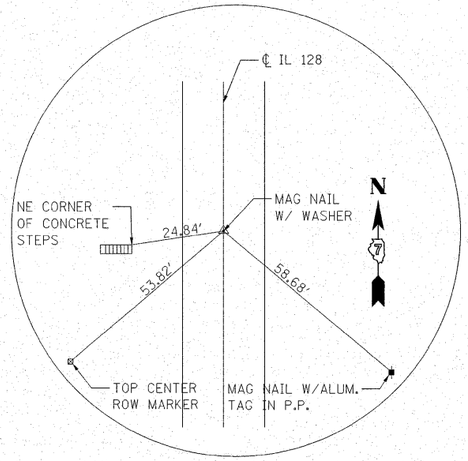
FILE NAME = $FILEL$	USER NAME = $USER$	DESIGNED - WLL 10/06/08	REVISED -
		DRAWN - WLL 10/06/08	REVISED -
	PLOT SCALE = $SCALE$	CHECKED - GBM 10/14/08	REVISED -
	PLOT DATE = $DATE$	DATE - 10/15/08	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

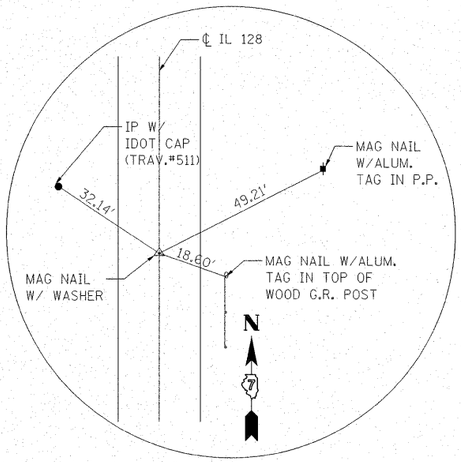
IL 128 OVER WOLF CREEK
PROPOSED TYPICAL SECTIONS

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

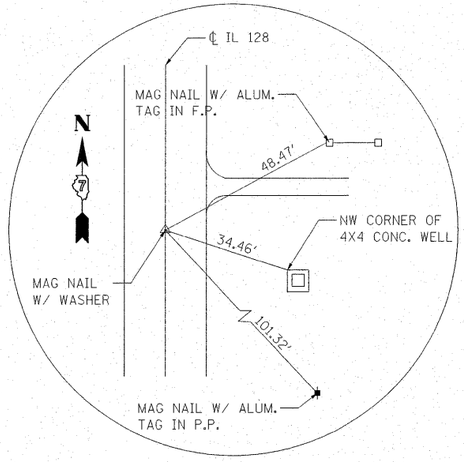
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2801	(102B)B-1	EFFINGHAM	51	7
		CONTRACT NO. 74232		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



P.O.T. STA 950+00.00



P.I. STA 972+80.24



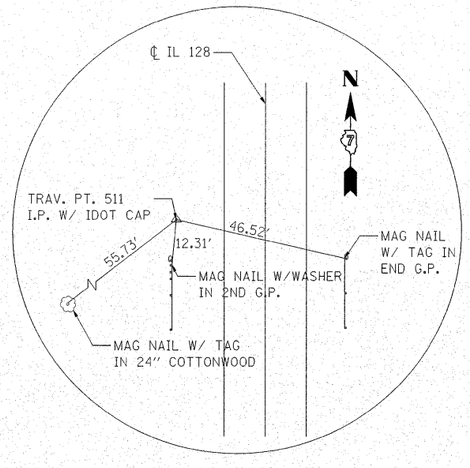
P.O.T. STA 990+00.00

BENCHMARKS:

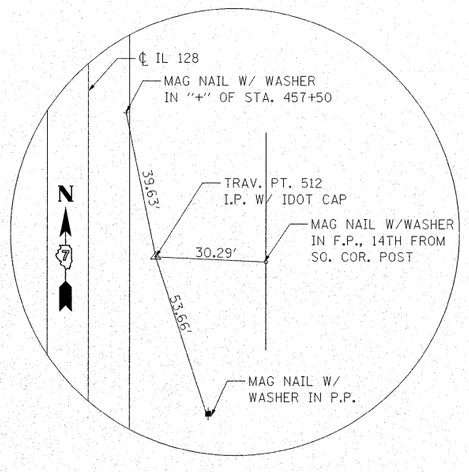
BM 528
STA. 430+83 22.3' LT
CUT SQUARE ON TOP OF SW CORNER OF WEST HEADWALL
ELEV. = 591.41

BM 529
STA. 451+19 18.0' RT
FOUND CHISELED SQUARE ON TOP OF SE WINGWALL ON BRIDGE OVER WOLF CREEK, STR. # 025-0046
ELEV. = 565.077

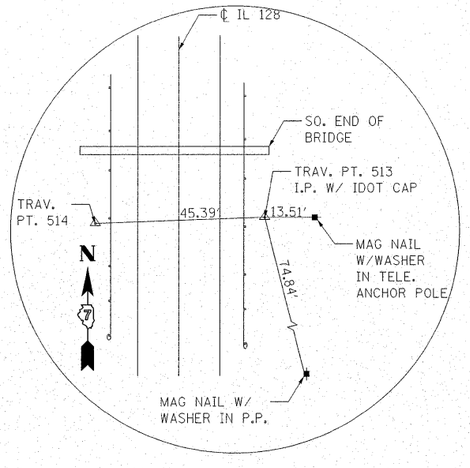
BM 530
STA. 479+33 39.5' RT
FOUND R.R. SPIKE IN POWER POLE AT SE QUAD OF IL 128 AND TR 2950N
ELEV. = 595.207



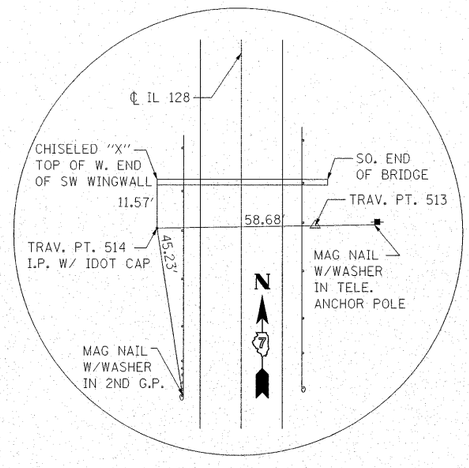
TRAVERSE PT. 511



TRAVERSE PT. 512



TRAVERSE PT. 513



TRAVERSE PT. 514

FILE NAME = $FILEL$	USER NAME = $USER$	DESIGNED - SEM	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	IL 128 OVER WOLF CREEK ALIGNMENT, TIES AND BENCHMARKS	F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN - WLL 10/07/08	REVISED -			2801	(102B)B-1	EFFINGHAM	51	8
	PLOT SCALE = $SCALE$	CHECKED - GBM 10/14/08	REVISED -					CONTRACT NO. 74232		
	PLOT DATE = $DATE$	DATE - 10/15/08	REVISED -		SCALE: SHEET NO. OF SHEETS STA. TO STA.	FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

EARTHWORK

LOCATION	20200100 EARTH EXCAVATION	EARTH EXCAVATION ADJUSTED FOR SHRINKAGE (25%)	EMBANKMENT	20400800 FURNISHED EXCAVATION WASTE (+) OR SHORTAGE (-)
	CU YD	CU YD	CU YD	CU YD
STA. 968+50.00 TO STA. 973+80.50	922.75	692.06	4,132.09	-3,440.03
STA. 975+71.50 TO STA. 980+50.00	54.32	40.74	43.90	-3.16
TOTALS	980	732.80	4,175.99	-3,443.19

PERIMETER EROSION BARRIER

LOCATION	28000400 PERIMETER EROSION BARRIER
	FOOT
STA. 968+50.00 TO STA. 974+16.00, LT	694.0
STA. 968+50.00 TO STA. 974+16.05, RT	614.1
STA. 975+14.50 TO STA. 976+32.78, LT	172.8
STA. 975+14.51 TO STA. 977+48.79, RT	196.0
TOTAL	1677

BITUMINOUS MATERIALS (PRIME COAT)

LOCATION	AREA	40600100 BITUMINOUS MATERIALS (PRIME COAT)
	SQ YD	GAL
ON MILLED SURFACE (RATE=0.1 GAL/SQ YD)		
STA. 968+50.00 TO STA. 970+50.00	525.9	52.59
STA. 978+87.50 TO STA. 980+50.00	427.8	42.78
ON EXISTING PAVEMENT (RATE=0.05 GAL/SQ YD)		
STA. 970+50.00 TO STA. 973+44.50	785.4	39.27
STA. 976+07.50 TO STA. 978+87.50	746.7	37.33
FOG COAT ON NEW BINDER (RATE=0.03 GAL/SQ YD)		
STA. 968+80.00 TO STA. 973+44.50	1237.5	37.13
STA. 976+07.50 TO STA. 980+20.00	1099.1	32.97
ON EXISTING BASE COURSE WIDENING AND		
HMA SHOULDERS (RATE=0.05 GAL/SQ YD)		
STA. 970+67.00 TO STA. 973+80.50, RT	244.3	12.22
STA. 970+71.00 TO STA. 973+80.50, LT	198.1	10.12
STA. 975+71.50 TO STA. 977+55.73, RT	141.0	7.20
STA. 975+71.50 TO STA. 976+43.23, LT	41.9	2.14
STA. 976+40.19 TO STA. 976+80.64, LT	13.7	0.69
	TOTAL	274

SEEDING, CLASS 2 (SPECIAL)

LOCATION	25001000 SEEDING, CLASS 2 (SPECIAL)
	ACRE
STA. 968+50.00 TO STA. 973+44.50, LT	0.50
STA. 968+50.00 TO STA. 973+44.50, RT	0.37
STA. 976+07.50 TO STA. 980+50.00, LT	0.05
STA. 976+07.50 TO STA. 980+50.00, RT	0.01
TOTAL	0.93

STONE RIPRAP, CLASS A4

LOCATION		28100107 STONE RIPRAP, CLASS A4
		SQ YD
STA. 970+50.00 TO STA. 972+07.11, RT	(DITCH)	175.9
STA. 972+00.00 TO STA. 973+44.50, LT	(DITCH)	786.0
STA. 973+48.50 TO STA. 973+53.50, LT	(5'x40')	22.2
STA. 973+48.50 TO STA. 973+53.50, RT	(5'x34')	18.9
STA. 975+39.33 TO STA. 975+85.38, LT	(5'x48')	26.7
STA. 976+71.42 TO STA. 977+24.78, RT	(5'x55')	30.6
FROM BRIDGE PLANS		1159.0
TOTAL		2219.3

FILTER FABRIC

LOCATION		28200200 FILTER FABRIC
		SQ YD
STA. 970+50.00 TO STA. 972+07.11, RT	(DITCH)	175.9
STA. 972+00.00 TO STA. 973+44.50, LT	(DITCH)	786.0
STA. 973+48.50 TO STA. 973+53.50, LT	(5'x40')	22.2
STA. 973+48.50 TO STA. 973+53.50, RT	(5'x34')	18.9
STA. 975+39.33 TO STA. 975+85.38, LT	(5'x48')	26.7
STA. 976+71.42 TO STA. 977+24.78, RT	(5'x55')	30.6
FROM BRIDGE PLANS		1159.0
TOTAL		2219.3

AGGREGATE (PRIME COAT)

LOCATION	AREA	40600300 AGGREGATE (PRIME COAT)
	SQ YD	TON
ON NEW BINDER (2 LBS/SQ YD)		
STA. 968+80.00 TO STA. 973+44.50	1237.5	1.2
STA. 976+07.50 TO STA. 980+20.00	1099.1	1.1
ON MILLED SURFACE (4 LBS/SQ YD)		
STA. 968+50.00 TO STA. 970+50.00	525.9	1.1
STA. 978+87.50 TO STA. 980+50.00	427.8	0.9
TOTAL		4

EROSION CONTROL BLANKET

LOCATION	25100630 EROSION CONTROL BLANKET
	SQ YD
STA. 968+50.00 TO STA. 973+70.57, LT	1884.6
STA. 968+50.00 TO STA. 973+70.53, RT	1656.5
STA. 975+81.50 TO STA. 976+32.78, LT	77.1
STA. 975+81.50 TO STA. 977+48.79, RT	186.1
STA. 975+86.21 TO STA. 980+50.00, LT	233.8
STA. 977+25.59 TO STA. 980+50.00, RT	80.6
TOTAL	4119

BASE COURSE WIDENING

LOCATION	LENGTH (FT)	WIDTH (FT)	35650700 BASE COURSE WIDENING SQ YD
STA. 970+67.00 TO STA. 973+71.92, RT	304.92	5.27	178.4
STA. 970+71.00 TO STA. 973+44.50, LT	273.50	4.21	128.1
STA. 975+59.87 TO STA. 977+88.00, RT	228.13	4.80	121.6
STA. 976+07.50 TO STA. 977+81.00, LT	173.50	4.36	84.0
		TOTAL	512

TEMPORARY EROSION CONTROL SEEDING

LOCATION	AREA	NUMBER OF APPLICATIONS	LBS/ACRE	28000250 TEMPORARY EROSION CONTROL SEEDING
	ACRE			POUND
STA. 968+50.00 TO STA. 980+50.00	0.9	3	100	270
			TOTAL	270

HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT

LOCATION	LENGTH (FT)	WIDTH (FT)	40600982 HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT SQ YD
STA. 468+50.00 TO STA. 468+80.00	30.00	22.13	73.75
STA. 480+20.00 TO STA. 480+50.00	30.00	22.60	75.33
		TOTAL	149

TEMPORARY RAMP

	LOCATION	LENGTH (FT)	WIDTH (FT)	40600990 TEMPORARY RAMP SQ YD
PRE-STAGE I	STA. 968+50.00 TO STA. 968+80.00	30.0	22.1	73.7
	STA. 973+44.50 TO STA. 973+87.10	42.6	32.0	151.5
	STA. 975+83.70 TO STA. 976+07.50	23.8	28.1	74.3
	STA. 980+20.00 TO STA. 980+50.00	30.0	22.6	75.3
STAGE I	STA. 973+39.50 TO STA. 973+44.50, LT	5.0	17.5	9.7
	STA. 976+07.50 TO STA. 976+12.50, LT	5.0	17.5	9.7
STAGE II	STA. 973+39.50 TO STA. 973+44.50, RT	5.0	16.0	8.9
	STA. 976+07.50 TO STA. 976+12.50, RT	5.0	16.0	8.9
			TOTAL	412

TEMPORARY DITCH CHECKS

LOCATION	28000300 TEMPORARY DITCH CHECKS
	EACH
STA. 973+44.50, LT	1
STA. 972+07.11, RT	1
TOTAL	2

FILE NAME = S:\237\2007\23707007\Cist7Var_Var\23707007FIWO6WolfCreekPhII\CADD\CADD Sheets\07705sched.dgn	USER NAME = $USER$	DESIGNED - WLL 10/06/08	REVISED -
		DRAWN - RJA 10/07/08	REVISED -
	PLOT SCALE = 1.0000 ' / IN.	CHECKED - GBM 10/14/08	REVISED -
	PLOT DATE = 12/10/2008	DATE - 10/15/08	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL 128 OVER WOLF CREEK
SCHEDULE OF QUANTITIES

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

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2801	(102B)B-1	EFFINGHAM	51	9
		CONTRACT NO. 74232		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70

LOCATION	VOLUME	CONVERSION	40603085 HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70
	CU YD	TON/CU YD	TON
STA. 968+80.00 TO STA. 973+44.50	245.9	2.016	495.7
STA. 976+07.50 TO STA. 980+20.00	121.3	2.016	244.6
		TOTAL	740.3

VOLUMES DETERMINED BY END AREAS TAKEN FROM CADD.

HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N70

LOCATION	THICKNESS	AREA	40603315 HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N70
	INCH	SQ YD	TON
STA. 968+50.00 TO STA. 973+80.50	1.5	15781.0	147.3
STA. 975+71.50 TO STA. 980+50.00	1.5	12215.2	114.0
STA. 976+40.19 TO STA. 976+80.64	3.0	120.3	2.2
		TOTAL	263.5

AREAS TAKEN FROM CADD.
TON=(# SQ YD) x (# INCHES) x (112 LBS/SQ YD/INCH) / 2000

PAVEMENT REMOVAL

LOCATION	44000100 PAVEMENT REMOVAL
	SQ YD
STA. 973+21.51 TO STA. 973+71.82 *	109.9
STA. 975+60.07 TO STA. 976+07.50 *	126.7
TOTAL	236.6

* QUANTITY TAKEN FROM CADD

HOT-MIX ASPHALT SURFACE REMOVAL, VARIABLE DEPTH

LOCATION			44000198 HOT-MIX ASPHALT SURFACE REMOVAL, VARIABLE DEPTH
	LENGTH	WIDTH	SQ YD
	(FT)	(FT)	
STA. 968+80.00 TO STA. 973+44.50	170.0	24.00	453.3
STA. 976+07.50 TO STA. 980+20.00	135.0	24.00	360.0
		TOTAL	813.3

HOT-MIX ASPHALT SHOULDERS

LOCATION	DESCRIPTION	VOLUME	CONVERSION	48203100 HOT-MIX ASPHALT SHOULDERS
		CU YD	TON/CU YD	TON
STA. 968+50.00 TO STA. 970+71.00, LT	SHOULDER	14.4	2.016	29.0
STA. 968+50.00 TO STA. 970+67.00, RT	SHOULDER	14.1	2.016	28.4
STA. 970+90.83 TO STA. 973+80.50, RT	G-RAIL STAB.	14.6	2.016	29.4
STA. 971+90.88 TO STA. 973+80.50, LT	G-RAIL STAB.	9.8	2.016	19.8
STA. 975+71.50 TO STA. 976+32.78, LT	G-RAIL STAB.	3.4	2.016	6.8
STA. 975+71.50 TO STA. 977+48.79, RT	G-RAIL STAB.	9.8	2.016	19.9
			TOTAL	133.2

VOLUMES DETERMINED BY END AREAS TAKEN FROM CADD.

CLASS SI CONCRETE (OUTLET)

LOCATION	A-A TO E-E*	F-F*	60600095 CLASS SI CONCRETE (OUTLET)
	FOOT	FOOT	CU YD
STA. 975+85.38 TO STA. 976+91.38, LT	52.0	64.2	7.9
STA. 977+24.78 TO STA. 978+03.73, RT	52.0	33.4	5.8
		TOTAL	13.7

*SEE STANDARD 606201-02

BRIDGE APPROACH PAVEMENT

LOCATION			42001165 BRIDGE APPROACH PAVEMENT
	LENGTH	WIDTH	SQ YD
	(FT)	(FT)	
STA. 973+50.50 TO STA. 973+80.50	30.0	33.33	111.11
STA. 975+71.50 TO STA. 976+01.50	30.0	33.33	111.11
		TOTAL	222.2

GUTTER REMOVAL

LOCATION	44000400 GUTTER REMOVAL
	FOOT
STA. 975+64.55 TO STA. 976+46.11, LT	81.7
STA. 975+64.37 TO STA. 977+56.18, RT	192.0
STA. 976+75.59 TO STA. 980+50.00, LT	374.4
STA. 977+80.71 TO STA. 980+50.00, RT	269.3
TOTAL	917.4

PIPE CULVERT REMOVAL

LOCATION	50105220 PIPE CULVERT REMOVAL
	FOOT
STA. 973+60.24, LT	18.0
STA. 973+60.06, RT	21.3
STA. 975+63.83, LT	19.3
STA. 975+63.64, RT	26.1
TOTAL	84.7

REMOVING INLETS

LOCATION	60500060 REMOVING INLETS
	EACH
STA. 973+60.24, LT	1
STA. 973+60.06, RT	1
STA. 975+63.83, LT	1
STA. 975+63.64, RT	1
TOTAL	4

CONCRETE GUTTER, TYPE B

LOCATION	60602800 CONCRETE GUTTER, TYPE B
	FOOT
569+00.00 TO 573+24.48, LT	358.8
569+00.00 TO 573+13.33, RT	246.3
TOTAL	605.1

BRIDGE APPROACH PAVEMENT CONNECTOR (FLEXIBLE)

LOCATION			42001430 BRIDGE APPROACH PAVEMENT CONNECTOR (FLEXIBLE)
	LENGTH	WIDTH	SQ YD
	(FT)	(FT)	
STA. 973+44.50 TO STA. 973+50.50	6.0	32.83	21.9
STA. 976+01.50 TO STA. 976+07.50	6.0	32.83	21.9
		TOTAL	43.8

GUTTER OUTLET REMOVAL

LOCATION	44002600 GUTTER OUTLET REMOVAL
	FOOT
STA. 975+97.41 TO STA. 976+75.59, LT	89.1
STA. 977+25.03 TO STA. 977+80.71, RT	60.4
TOTAL	149.5

PIPE DRAINS 4"

LOCATION	60100905 PIPE DRAINS 4"
	FOOT
STA. 973+80.47, LT	17.6
STA. 973+80.53, RT	12.5
STA. 975+70.22, LT	19.2
STA. 975+70.28, RT	16.3
STA. 975+85.38 TO STA. 977+95.00, LT	217.4
TOTAL	283.0

STEEL PLATE BEAM GUARD RAIL, TYPE A

LOCATION	63000000 STEEL PLATE BEAM GUARD RAIL, TYPE A
	FOOT
STA. 971+74.86 TO STA. 973+37.36, RT	162.5
STA. 972+74.85 TO STA. 973+37.36, LT	62.5
STA. 976+14.65 TO STA. 976+77.15, LT	62.5
STA. 976+14.65 TO STA. 976+77.15, RT	62.5
TOTAL	350.0

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL 128 OVER WOLF CREEK
SCHEDULE OF QUANTITIES

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

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2801	(102B)B-1	EFFINGHAM	51	10
		CONTRACT NO. 74232		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

TRAFFIC BARRIER TERMINAL, TYPE 1B

LOCATION	63100041 TRAFFIC BARRIER TERMINAL, TYPE 1B
	EACH
STA. 976+77.15 TO STA. 977+02.15, LT	1
TOTAL	1

TRAFFIC BARRIER TERMINAL, TYPE 6

LOCATION	63100085 TRAFFIC BARRIER TERMINAL, TYPE 6
	EACH
STA. 973+37.36 TO STA. 973+81.11, LT	1
STA. 973+37.36 TO STA. 973+81.11, RT	1
STA. 975+70.90 TO STA. 976+14.65, LT	1
STA. 975+70.90 TO STA. 976+14.65, RT	1
TOTAL	4

TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT

LOCATION	63100167 TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT
	EACH
STA. 971+24.86 TO STA. 971+74.86, RT	1
STA. 972+24.85 TO STA. 972+74.85, LT	1
STA. 976+77.15 TO STA. 977+27.15, RT	1
TOTAL	3

GUARDRAIL REMOVAL

LOCATION	63200310 GUARDRAIL REMOVAL
	FOOT
STA. 972+58.87 TO STA. 973+71.57, RT	112.7
STA. 972+83.29 TO STA. 973+71.81, LT	88.6
STA. 975+60.18 TO STA. 976+23.38, LT	63.2
STA. 975+59.88 TO STA. 976+23.46, RT	63.6
TOTAL	328.1

REMOVE AND RE-ERECT RAIL ELEMENT OF EXISTING GUARD RAIL

LOCATION	63300575 REMOVE AND RE-ERECT RAIL ELEMENT OF EXISTING GUARD RAIL
	FOOT
STA. 972+58.87 TO STA. 973+71.57, RT	112.7
STA. 975+59.88 TO STA. 976+23.46, RT	63.6
TOTAL	176.3

PERMANENT SURVEY MARKERS, TYPE II

LOCATION	66700305 PERMANENT SURVEY MARKERS, TYPE II
	EACH
TO BE DETERMINED	1
TOTAL	1

TEMPORARY CONCRETE BARRIER

LOCATION	70400100 TEMPORARY CONCRETE BARRIER
	FOOT
STA. 971+01.30 TO STA. 977+50.70 (Stage I Construction)	650
(52 Barriers @ 12.5' each = 650')	
TOTAL	650

BASE COURSE WIDENING REMOVAL

LOCATION	LENGTH (FT)	WIDTH (FT)	*7000599 BASE COURSE WIDENING REMOVAL SQ YD
STA. 973+44.50 TO STA. 973+71.92, RT	27.4	5.2	15.8
STA. 976+40.00 TO STA. 977+81.00, LT	141.0	4.0	62.7
STA. 977+50.00 TO STA. 977+88.00, RT	38.0	5.4	22.8
TOTAL			101.3

SHORT-TERM PAVEMENT MARKING

LOCATION		70300100 SHORT-TERM PAVEMENT MARKING
		FOOT
MILLED PAVEMENT	STA. 968+50.00 TO STA. 980+50.00	120.0
ONE APPLICATION PRIME	STA. 968+50.00 TO STA. 980+50.00	120.0
LIFT BINDER COURSE	STA. 968+50.00 TO STA. 980+50.00	120.0
LIFT SURFACE COURSE	STA. 968+50.00 TO STA. 980+50.00	120.0
TOTAL		480.0

TEMPORARY PAVEMENT MARKING-LINE 4"

LOCATION			70300220 TEMPORARY PAVEMENT MARKING-LINE 4"
			FOOT
LT EDGE	STA. 968+50.00 TO STA. 980+50.00		1200
RT EDGE	STA. 968+50.00 TO STA. 980+50.00		1200
CENTERLINE	STA. 968+50.00 TO STA. 971+80.00	SKIP-DASH	83
CENTERLINE	STA. 971+80.00 TO STA. 980+50.00	SOLID-DASH	1088
TOTAL			3571

RELOCATE TEMPORARY CONCRETE BARRIER

LOCATION	70400200 RELOCATE TEMPORARY CONCRETE BARRIER
	FOOT
STA. 971+13.75 TO STA. 977+38.24 (Stage II Construction)	625
(50 Barriers @ 12.5 each = 625')	
TOTAL	625

WORK ZONE PAVEMENT MARKING REMOVAL

LOCATION		WIDTH	LENGTH	70301000 WORK ZONE PAVEMENT MARKING REMOVAL SQ FT
LIFT SURFACE COURSE	STA. 968+50.00 TO STA. 980+50.00	4"	120.0	40.0
TOTAL				40.0

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		DATE - 10/15/08	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL 128 OVER WOLF CREEK
SCHEDULE OF QUANTITIES

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

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2801	(102B)B-1	EFFINGHAM	51	11
		CONTRACT NO. 74232		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

FURNISHING AND INSTALLING PROPERTY MARKERS

LOCATION & DESCRIPTION		Z0025500 FURNISHING AND INSTALLING PROPERTY MARKERS
LOCATION	DESCRIPTION	EACH
STA. 970+05.00, 0.13' RT	IRON PIN - NW CORNER, SECTION 7 MONUMENT RECORD - VOL. 2439, PAGE 245	1
STA. 972+67.09, 0.24' RT	IRON PIN - SE CORNER, SECTION 1 MONUMENT RECORD - BOOK 1, PAGE 301	1
	TOTAL	2

PAINT PAVEMENT MARKING - LINE 4"

LOCATION			78001110 PAINT PAVEMENT MARKING - LINE 4"
			FOOT
LT EDGE	STA. 968+50.00 TO STA. 980+50.00		1200
RT EDGE	STA. 968+50.00 TO STA. 980+50.00		1200
CENTERLINE	STA. 968+50.00 TO STA. 971+80.00	SKIP-DASH	83
CENTERLINE	STA. 971+80.00 TO STA. 980+50.00	SOLID-DASH	1088
		TOTAL	3571

PAVEMENT MARKING REMOVAL

LOCATION					78300100 PAVEMENT MARKING REMOVAL
			WIDTH	LENGTH	SQ FT
STAGE I	STA. 970+67.00 TO STA. 977+88.00, RT	SOLID	4"	721	240.3
STAGE I	STA. 969+24.50 TO STA. 970+93.50, CL	SKIP-DASH	4"	42.25	14.1
STAGE I	STA. 977+58.50 TO STA. 979+18.50, CL	SOLID-DASH	4"	200	66.7
STAGE II	STA. 970+71.00 TO STA. 973+44.50, LT	SOLID	4"	273.5	91.2
STAGE II	STA. 976+07.50 TO STA. 977+81.00, LT	SOLID	4"	173.5	57.8
				TOTAL	470.1

RAISED REFLECTIVE PAVEMENT MARKER (BRIDGE)

LOCATION	78100105 RAISED REFLECTIVE PAVEMENT MARKER (BRIDGE)
	EACH
STA. 973+80.50 TO STA. 975+71.50	2
(PAVEMENT MARKERS ON 80' cts.)	
TOTAL	2

RAISED REFLECTIVE PAVEMENT MARKER

LOCATION	78100100 RAISED REFLECTIVE PAVEMENT MARKER
	EACH
STA. 968+50.00 TO STA. 973+80.50	7
STA. 975+71.50 TO STA. 980+50.00	6
(PAVEMENT MARKERS ON 80' cts.)	
TOTAL	13

IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE), TEST LEVEL 3

LOCATION	Z0030250 IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE), TEST LEVEL 3
	EACH
STA. 971+01.21, 2.7' LT	1
STA. 977+50.79, 2.7' LT	1
TOTAL	2

FURNISHING AND ERECTING RIGHT-OF-WAY MARKERS

LOCATION	66600105 FURNISHING AND ERECTING RIGHT-OF-WAY MARKERS
	EACH
STA. 970+05.08, 60.0' LT	1
STA. 970+10.43, 60.0' RT	1
STA. 971+50.00, 70.0' RT	1
STA. 972+00.00, 115.0' LT	1
STA. 972+70.16, 70.0' RT	1
STA. 972+80.24, 70.0' RT	1
STA. 972+80.26, 115.0' LT	1
STA. 973+50.00, 70.0' LT	1
STA. 974+70.00, 60.0' RT	1
STA. 974+92.58, 115.0' LT	1
STA. 975+01.52, 115.0' LT	1
TOTAL	11

GUARDRAIL MARKERS, TYPE A

LOCATION	78200410 GUARDRAIL MARKERS, TYPE A
	EACH
STA. 971+24.86 TO STA. 973+81.11, RT	4
STA. 972+24.85 TO STA. 973+81.11, LT	4
STA. 975+70.90 TO STA. 977+02.15, LT	4
STA. 975+70.90 TO STA. 977+27.15, RT	4
TOTAL	16

TERMINAL MARKER - DIRECT APPLIED

LOCATION	78201000 TERMINAL MARKER - DIRECT APPLIED
	EACH
STA. 971+24.86, RT	1
STA. 972+24.85, LT	1
STA. 977+27.15, RT	1
TOTAL	3

IMPACT ATTENUATORS, RELOCATE (NON-REDIRECTIVE), TEST LEVEL 3

LOCATION	Z0030350 IMPACT ATTENUATORS, RELOCATE (NON-REDIRECTIVE), TEST LEVEL 3
	EACH
STA. 971+13.66, 2.4' RT	1
STA. 977+38.33, 2.4' RT	1
TOTAL	2

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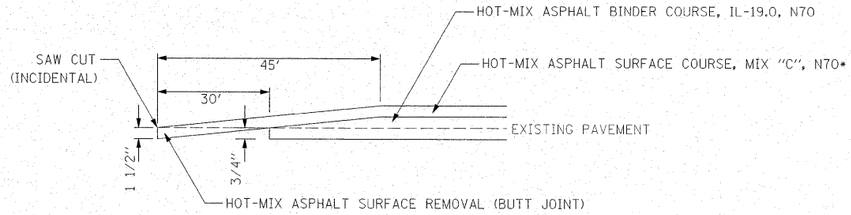
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL 128 OVER WOLF CREEK
SCHEDULE OF QUANTITIES

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

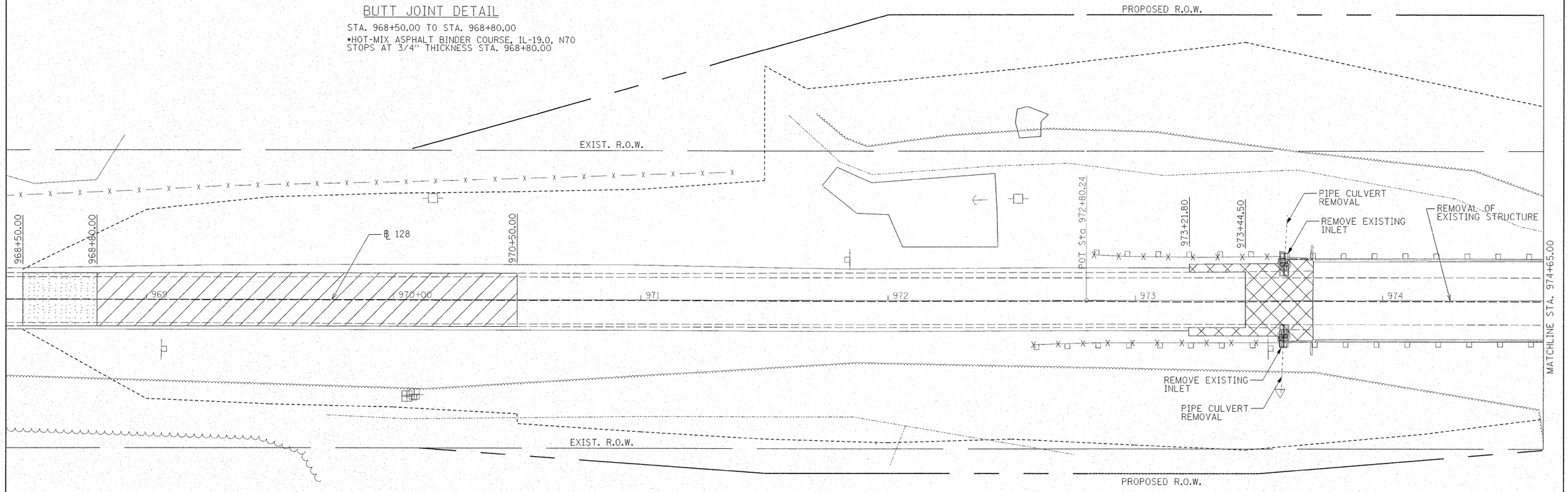
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2801	(102B)B-1	EFFINGHAM	51	12
		CONTRACT NO. 74232		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



BUTT JOINT DETAIL

STA. 968+50.00 TO STA. 968+80.00

*HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70 STOPS AT 3/4" THICKNESS STA. 968+80.00



REMOVAL LEGEND

- HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT
- HOT-MIX ASPHALT SURFACE REMOVAL VARIABLE DEPTH
- PAVEMENT REMOVAL
- GUARDRAIL REMOVAL

0 20' 40'
1" = 20'

FILE NAME = $FILEL$	USER NAME = $USER$	DESIGNED - SEM	REVISED -
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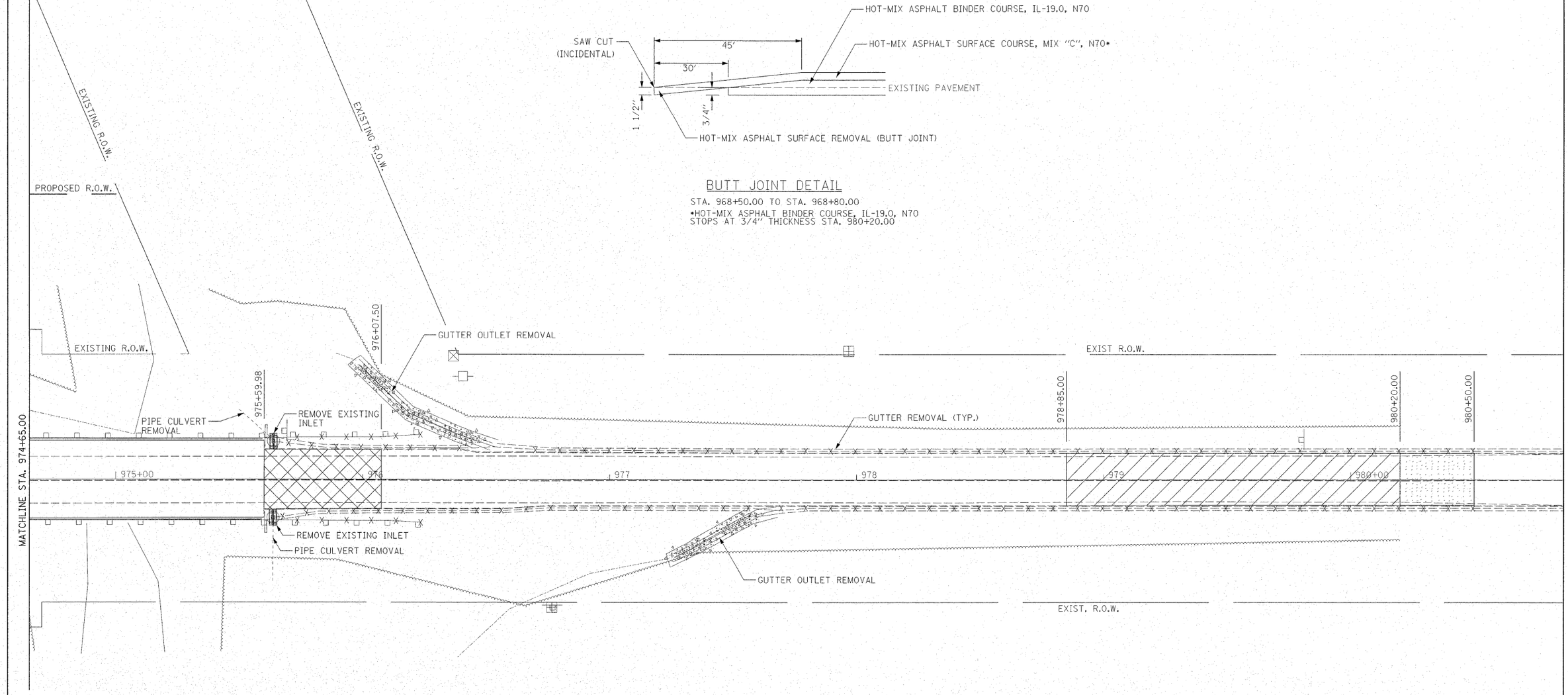
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL 128 OVER WOLF CREEK
REMOVAL PLAN

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

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2801	(102B)B-1	EFFINGHAM	51	13
		CONTRACT NO. 74232		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



BUTT JOINT DETAIL

STA. 968+50.00 TO STA. 968+80.00

*HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70 STOPS AT 3/4" THICKNESS STA. 980+20.00

REMOVAL LEGEND

- HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT
- HOT-MIX ASPHALT SURFACE REMOVAL VARIABLE DEPTH
- PAVEMENT REMOVAL
- GUARDRAIL REMOVAL
- GUTTER REMOVAL

N

0 20' 40'
1" = 20'

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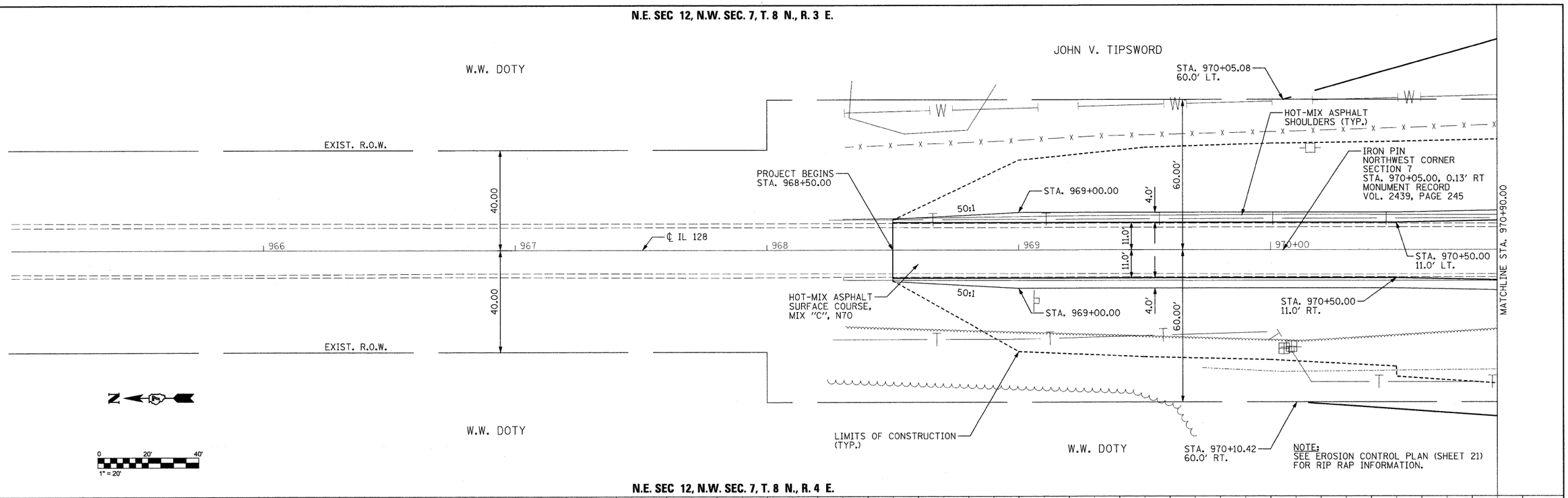
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL 128 OVER WOLF CREEK
REMOVAL PLAN

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

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2801	(102B)B-1	EFFINGHAM	51	14
		CONTRACT NO. 74232		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

N.E. SEC 12, N.W. SEC. 7, T. 8 N., R. 3 E.



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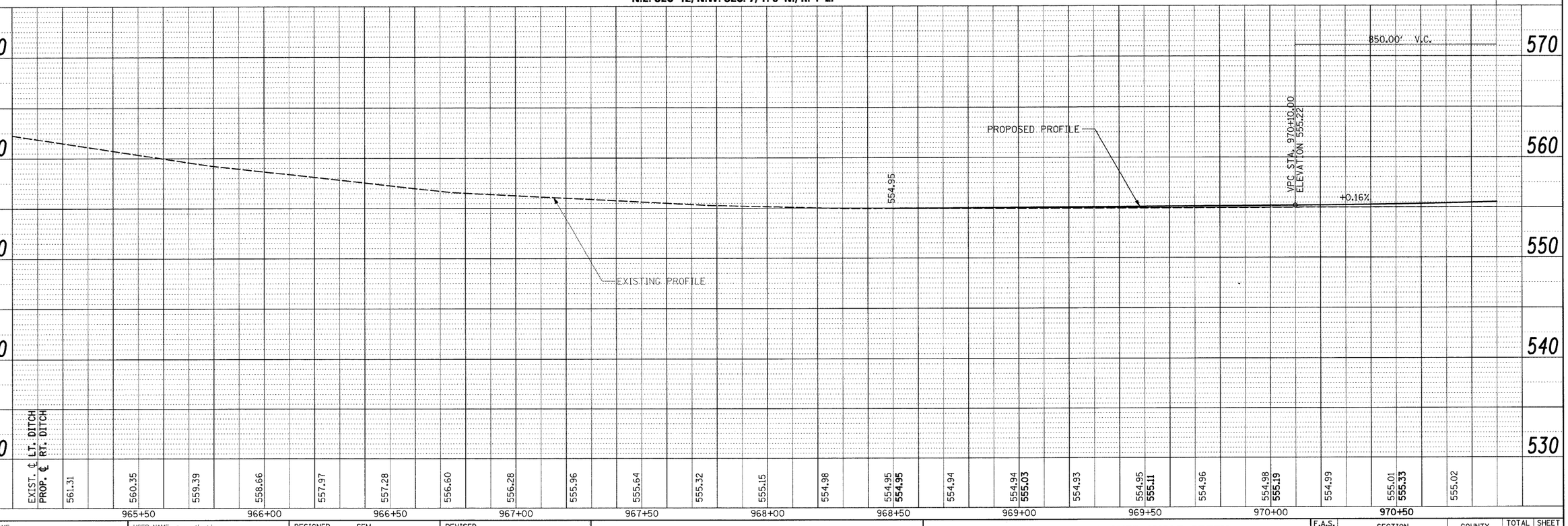

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	PLOT DATE = 12/15/2008	DATE - 10/15/08	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL 128 OVER WOLF CREEK
PLAN AND PROFILE

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

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2801	(102B)B-1	EFFINGHAM	51	15
		CONTRACT NO. 74232		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

PLAN: SURVEYED, PLOTTED, ALIGNMENT CHECKED, ALL DATA VERIFIED, CADD FILE NAME, NOTE BOOK, NO., BY, DATE

PROFILE: SURVEYED, PLOTTED, GRADES CHECKED, ALL DATA VERIFIED, STRUCTURE NO(S)/STNS CHK'D, NOTE BOOK, NO., BY, DATE

CLASS SI CONCRETE (OUTLET) TABLE				
LOCATION	LENGTH FROM:			QUANTITY (CU YD)
	A-A TO D-D	D-D TO E-E	E-E TO OUTLET	
STA. 975+85.38 TO STA. 976+91.23, LT	48′	4′	64.2′	7.9

N.E. SEC 12, N.W. SEC. 7, T. 8 N., R. 3 E.

JOHN V. TIPSWORD

PROPOSED R.O.W.

STA. 972+00.00
115.0′ LT.

STA. 972+80.24
115.0′ LT.

PROPOSED R.O.W.

LIMITS OF CONSTRUCTION

STA. 974+92.58
115.0′ LT.

STA. 975+01.51
115.0′ LT.

IRON PIN
SOUTHEAST CORNER
SECTION 1
STA. 972+67.09, 0.24′ RT.
MONUMENT RECORD
BOOK 1, PAGE 301

PR. S.N. 025-0105
℄ 974+76.00
TWO SPAN
54″ PPC I-BEAMS
SKEW=0°

PIPE DRAIN 4″

STA. 976+60.00
20.0′ LT.

EXIST. R.O.W.

MATCHLINE STA. 970+90.00

STA. 971+00.00
12.0′ LT.

4.0′ (TYP.)

6″, HOT-MIX ASPHALT
SHOULDERS (TYP.)

STA. 972+24.85
17.0′ LT.

STA. 972+14.85
20.0′ LT.

60.0′

115.0′

STEEL PLATE BEAM GUARDRAIL,
TYPE A (TYP.)

BRIDGE APPROACH PAVEMENT
CONNECTOR (FLEXIBLE) (TYP.)

PRL Sta 972+80.24

8.0′ (TYP.)

EXIST. R.O.W.

PIPE DRAIN 4″ TO BE CONNECTED
TO PIPE UNDERDRAINS FOR
STRUCTURES, 4″ SEE SHEET 24 (TYP.)

50.0′

CLASS SI
CONCRETE (OUTLET)
(SEE TABLE)

MATCHLINE STA. 976+80.00

971 | 972 | 973 | 974 | 975+00 | 976

HOT-MIX ASPHALT SURFACE
COURSE, MIX "C", N70

STA. 971+24.86
17.0′ RT

STA. 971+90.88
16.0′ LT.

12.0′

℄ IL 128

12.0′

TRAFFIC BARRIER TERMINAL
TYPE 1, SPECIAL (TANGENT) (TYP.)

STA. 971+14.86
20.0′ RT.

STA. 971+00.00
12.0′ RT.

STA. 970+90.83
16.0′ RT.

60.0′

70.0′

8.0′ (TYP.)

973+44.50

973+50.50

STA. 974+70.00
60.0′ RT.

50.0′

976+01.50

976+07.40

CONCRETE GUTTER,
TYPE B (TYP.)

8.0′ (TYP.)

TRAFFIC BARRIER
TERMINAL, TYPE 6 (TYP.)

BRIDGE APPROACH
PAVEMENT

STA. 973+50.00
70.0′ RT.

STA. 972+70.16
70.0′ RT.

STA. 971+50.00
70.0′ RT.

STA. 972+80.24
70.0′ RT.

EXIST. R.O.W.

PROPOSED R.O.W.

N.E. SEC 12, N.W. SEC. 7, T. 8 N., R. 4 E.

W.W. DOTY

0 20′ 40′
1″ = 20′

PLAN
SURVEYED
PLOTTED
CHECKED
R.O.W. CHECKED
NOTE BOOK
NO.
DATE
BY

PROFILE
SURVEYED
PLOTTED
CHECKED
R.O.W. CHECKED
B.M. NOTED
STRUCTURE NOTATIONS OKD
NOTE BOOK
NO.
DATE
BY

850.00′ V.C.

PROPOSED PROFILE

EXISTING PROFILE

PR. RT. DITCH PROFILE

972+07.11

PR. LT. DITCH PROFILE

UPSTREAM OPENING

973+44.50

973+83.00
562.07

973+35.00
ELEVATION 555.90

-0.16%

+5.17%

974+11.46
539.85

974+19.00
535.09

975+05.05
535.09

975+69.00
560.09

561.09

NATURAL D.H.W.EL. = 551.7

NOTE:
SEE EROSION CONTROL
PLAN (SHEETS 21 & 22)
FOR RIP RAP INFORMATION

570 560 550 540 530

555.05 555.62 | 555.19 | 555.33 556.08 | 555.47 | 555.70 556.71 | 556.00 | 556.30 557.50 | 556.61 | 557.14 558.46 | 557.70 | 558.42 559.58 | 559.16 | 559.97 560.86 | 560.78 | 561.59 562.31 | 562.41 | 563.25 563.93 | 564.08 | 564.91 565.71 | 565.87 | 566.91 567.66 | 568.02 | 569.15 569.77 | 570.28

971+00 | 971+50 | 972+00 | 972+50 | 973+00 | 973+50 | 974+00 | 974+50 | 975+00 | 975+50 | 976+00 | 976+50

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		DATE - 10/15/08	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

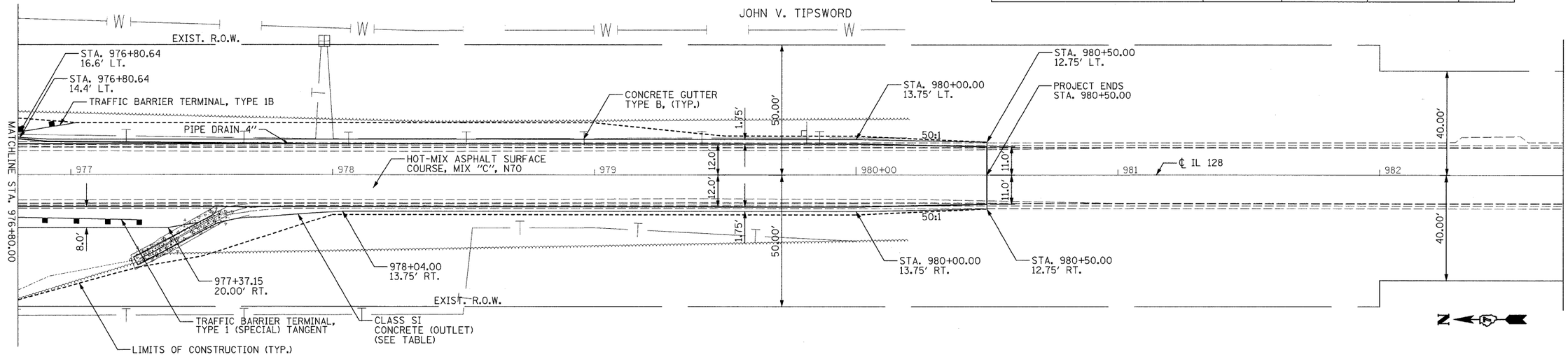
IL 128 OVER WOLF CREEK
PLAN AND PROFILE

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

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2801	(102B)B-1	EFFINGHAM	51	16
		CONTRACT NO. 74232		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

N.E. SEC 12, N.W. SEC. 7, T. 8 N., R. 3 E.

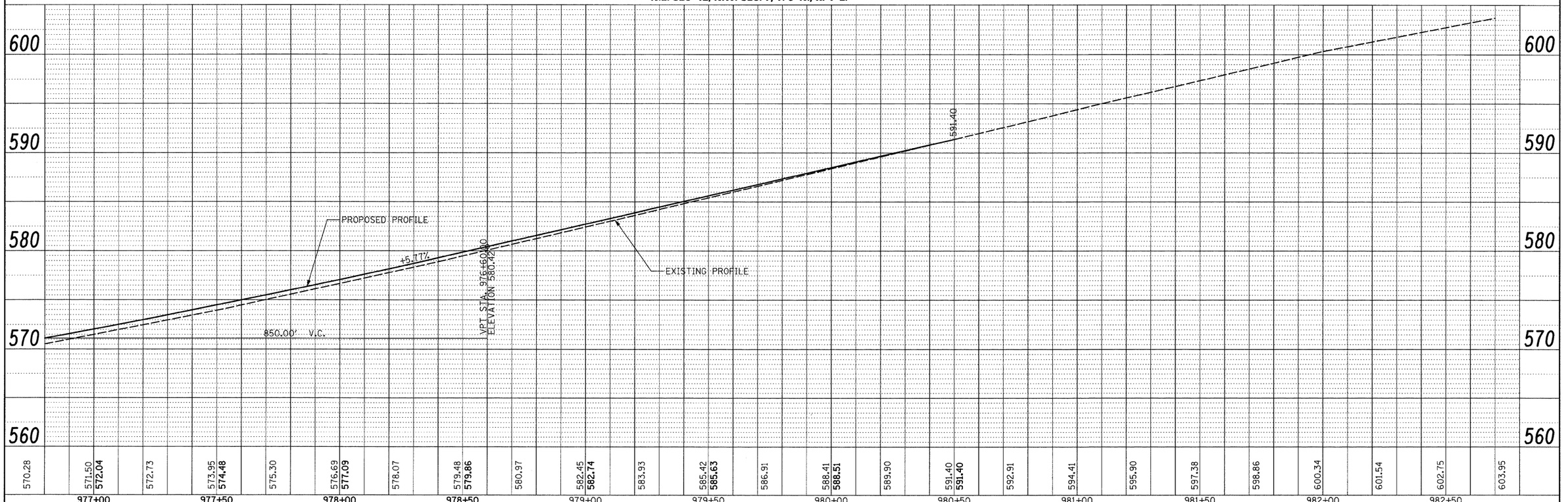
CLASS SI CONCRETE (OUTLET) TABLE				
LOCATION	LENGTH FROM:			QUANTITY
	A-A TO D-D	D-D TO E-E	E-E TO OUTLET	(CU YD)
STA. 977+24.78 TO STA. 978+03.73, RT	48'	4'	33.4'	5.8



NOTE:
SEE EROSION CONTROL PLAN (SHEET 22)
FOR RIP RAP INFORMATION.

0 20' 40'
1" = 20'

N.E. SEC 12, N.W. SEC. 7, T. 8 N., R. 4 E.



PLAN / PROFILE — SURVEYED, PLOTTED, ADDED, CHECKED, RT. OF WAY CHECKED, CADD FILE NAME, NOTE BOOK, NO., DATE, BY, STRUCTURE NO(S) & NAME

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	PLOT SCALE = 20.0000 ' / IN.	CHECKED - GBM 10/14/08	REVISED -
	PLOT DATE = 12/15/2008	DATE - 10/15/08	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

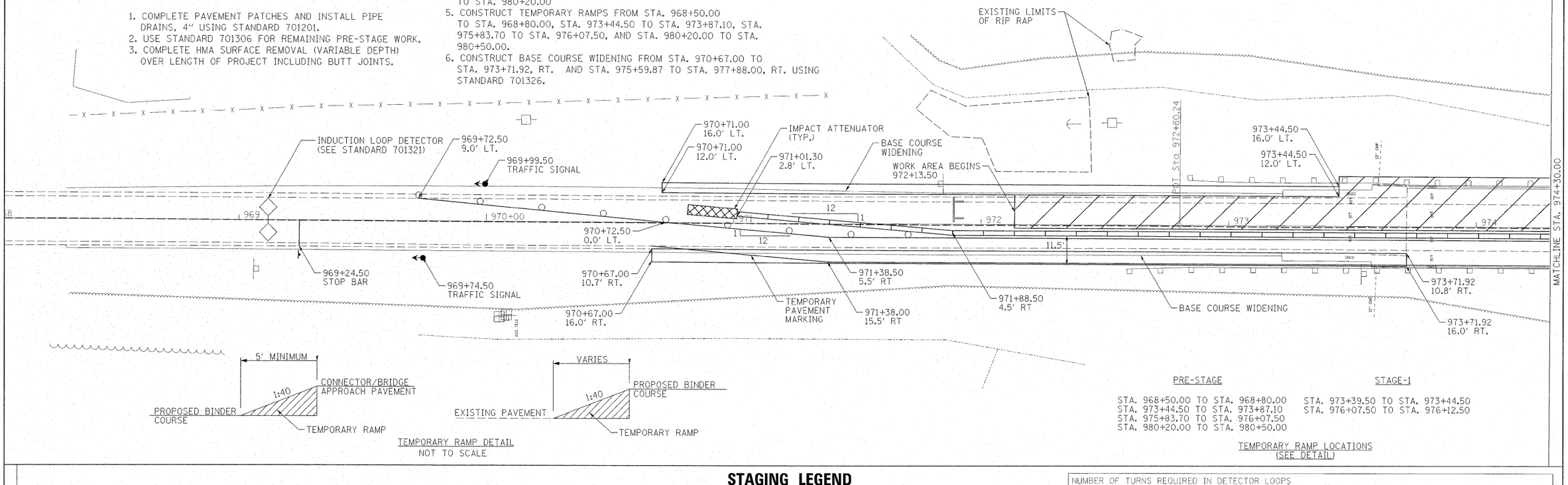
IL 128 OVER WOLF CREEK
PLAN AND PROFILE

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2801	(102B)B-1	EFFINGHAM	51	17
		CONTRACT NO. 74232		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

PRE-STAGE CONSTRUCTION

1. COMPLETE PAVEMENT PATCHES AND INSTALL PIPE DRAINS, 4" USING STANDARD 701201.
2. USE STANDARD 701306 FOR REMAINING PRE-STAGE WORK.
3. COMPLETE HMA SURFACE REMOVAL (VARIABLE DEPTH) OVER LENGTH OF PROJECT INCLUDING BUTT JOINTS.
4. CONSTRUCT ALL HMA BINDER COURSE FROM STA. 968+80.00 TO STA. 973+44.50 AND STA. 976+07.50 TO STA. 980+20.00
5. CONSTRUCT TEMPORARY RAMPS FROM STA. 968+50.00 TO STA. 968+80.00, STA. 973+44.50 TO STA. 973+87.10, STA. 975+83.70 TO STA. 976+07.50, AND STA. 980+20.00 TO STA. 980+50.00.
6. CONSTRUCT BASE COURSE WIDENING FROM STA. 970+67.00 TO STA. 973+71.92, RT. AND STA. 975+59.87 TO STA. 977+88.00, RT. USING STANDARD 701326.



TEMPORARY RAMP DETAIL
NOT TO SCALE

PRE-STAGE

STA. 968+50.00 TO STA. 968+80.00
STA. 973+44.50 TO STA. 973+87.10
STA. 975+83.70 TO STA. 976+07.50
STA. 980+20.00 TO STA. 980+50.00

STAGE-1

STA. 973+39.50 TO STA. 973+44.50
STA. 976+07.50 TO STA. 976+12.50

TEMPORARY RAMP LOCATIONS (SEE DETAIL)

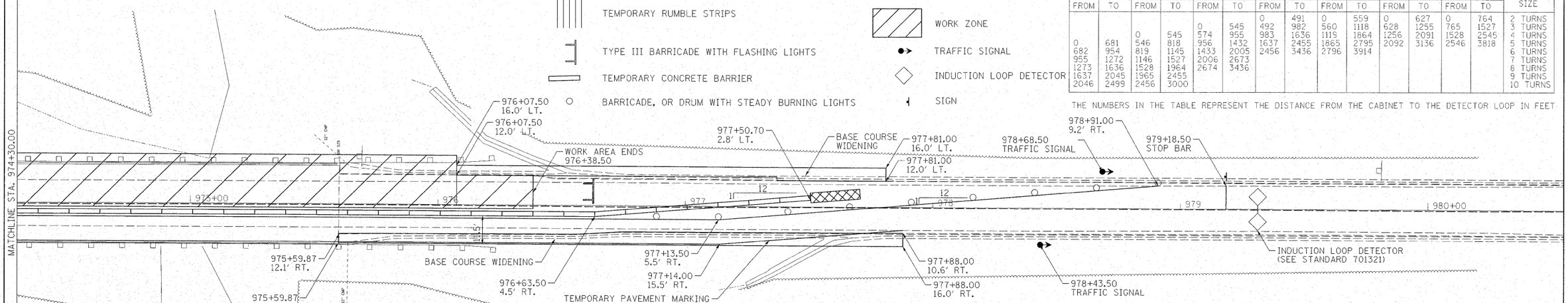
STAGING LEGEND

TEMPORARY RUMBLE STRIPS
TYPE III BARRICADE WITH FLASHING LIGHTS
TEMPORARY CONCRETE BARRIER
BARRICADE, OR DRUM WITH STEADY BURNING LIGHTS
WORK ZONE
TRAFFIC SIGNAL
INDUCTION LOOP DETECTOR
SIGN

NUMBER OF TURNS REQUIRED IN DETECTOR LOOPS

5 X 5		6 X 6		6 X 15		6 X 30		6 X 35		6 X 40		6 X 50		LOOP SIZE
FROM	TO	FROM	TO	FROM	TO	FROM	TO	FROM	TO	FROM	TO	FROM	TO	
0	681	0	545	0	545	0	491	0	559	0	627	0	764	2 TURNS
682	954	546	818	574	955	492	982	560	1118	628	1255	765	1527	3 TURNS
955	1272	819	1145	956	1432	983	1637	1119	1864	1256	2091	1528	2545	4 TURNS
1273	1636	1146	1527	1433	2005	1636	2455	1865	2795	2092	3136	2546	3818	5 TURNS
1637	2045	1528	1964	2006	2673	2456	3436	2796	3914					6 TURNS
2046	2499	1965	2455	2674	3436									7 TURNS
		2456	3000											8 TURNS
														9 TURNS
														10 TURNS

THE NUMBERS IN THE TABLE REPRESENT THE DISTANCE FROM THE CABINET TO THE DETECTOR LOOP IN FEET



STAGE 1 CONSTRUCTION

1. USE STANDARD 701321 FOR BRIDGE WORK.
2. REMOVE STAGE 1 PORTION OF THE EXISTING STRUCTURE, GUARDRAIL, AND PAVEMENT.
3. CONSTRUCT STAGE 1 PORTION OF THE PROPOSED BRIDGE INCLUDING APPROACH PAVEMENTS, RIPRAP, AND EARTHWORK.
4. CONSTRUCT BASE COURSE WIDENING FROM STA. 970+71.00 TO STA. 973+44.50, LT. AND STA. 976+07.50 TO STA. 977+81.00, LT.
5. CONSTRUCT HMA SHOULDERS, GUARDRAIL, AND NECESSARY EARTHWORK FROM STA. 970+71.00 TO STA. 973+80.50, LT. AND STA. 975+71.50 TO STA. 977+81.00, LT.
6. CONSTRUCT TEMPORARY RAMPS FROM STA. 973+39.50 TO STA. 973+44.50, LT. AND STA. 976+07.50 TO STA. 976+12.50, LT.

NOTE:
1. SEE STANDARD 701321 FOR INDUCTION LOOP DETECTOR AND TEMPORARY RUMBLE STRIPS LOCATIONS.
2. SEE SHEET 20 FOR STAGING TYPICAL SECTIONS.

0 20' 40'

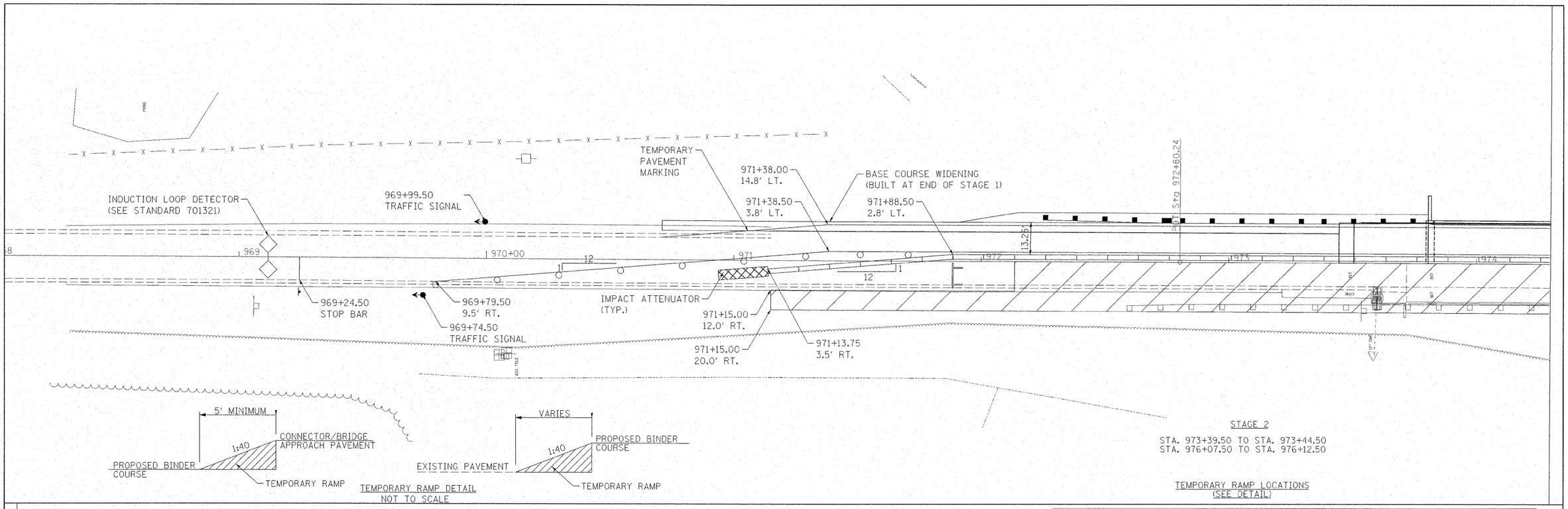
FILE NAME = $FILEL$	USER NAME = $USER$	DESIGNED - JDS 10/02/08	REVISED -
		DRAWN - JDS 10/02/08	REVISED -
	PLOT SCALE = $SCALE$	CHECKED - GBM 10/14/08	REVISED -
	PLOT DATE = $DATE$	DATE - 10/15/08	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL 128 OVER WOLF CREEK
STAGING PLAN – STAGE 1 CONSTRUCTION

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

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2801	(102B)B-1	EFFINGHAM	51	18
		CONTRACT NO. 74232		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



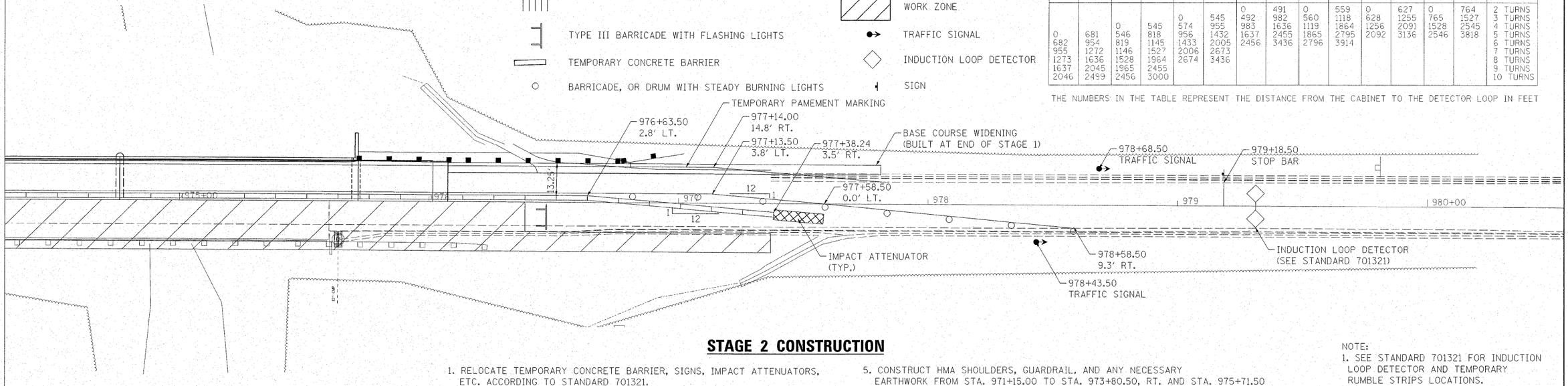
STAGING LEGEND

- TEMPORARY RUMBLE STRIPS
- TYPE III BARRICADE WITH FLASHING LIGHTS
- TEMPORARY CONCRETE BARRIER
- BARRICADE, OR DRUM WITH STEADY BURNING LIGHTS
- WORK ZONE
- TRAFFIC SIGNAL
- INDUCTION LOOP DETECTOR
- SIGN

NUMBER OF TURNS REQUIRED IN DETECTOR LOOPS

5 X 5		6 X 6		6 X 15		6 X 30		6 X 35		6 X 40		6 X 50		LOOP SIZE
FROM	TO	FROM	TO	FROM	TO	FROM	TO	FROM	TO	FROM	TO	FROM	TO	
				0	545	0	491	0	559	0	627	0	764	2 TURNS
		0	545	574	955	492	982	560	1118	628	1255	765	1527	3 TURNS
0	681	546	818	956	1432	983	1636	1119	1864	1256	2091	1528	2545	4 TURNS
682	954	819	1145	1433	2005	1637	2455	1865	2795	2092	3136	2546	3818	5 TURNS
955	1272	1146	1527	2006	2673	2456	3436	2796	3914					6 TURNS
1273	1636	1528	1964	2674	3436									7 TURNS
1637	2045	1965	2455											8 TURNS
2046	2499	2456	3000											9 TURNS
														10 TURNS

THE NUMBERS IN THE TABLE REPRESENT THE DISTANCE FROM THE CABINET TO THE DETECTOR LOOP IN FEET



STAGE 2 CONSTRUCTION

1. RELOCATE TEMPORARY CONCRETE BARRIER, SIGNS, IMPACT ATTENUATORS, ETC. ACCORDING TO STANDARD 701321.
2. USE STANDARD 701321 FOR BRIDGE WORK.
3. REMOVE STAGE 2 PORTION OF THE EXISTING BRIDGE, PAVEMENT, AND GUARDRAIL.
4. CONSTRUCT STAGE 2 PORTION OF THE PROPOSED BRIDGE INCLUDING APPROACH PAVEMENT, RIPRAP, AND EARTHWORK.
5. CONSTRUCT HMA SHOULDERS, GUARDRAIL, AND ANY NECESSARY EARTHWORK FROM STA. 971+15.00 TO STA. 973+80.50, RT. AND STA. 975+71.50 TO STA. 977+37.00
6. CONSTRUCT TEMPORARY RAMPS FROM STA. 973+39.50 TO STA. 973+44.50, LT. AND STA. 976+07.50 TO STA. 976+12.50, LT.
7. REMOVE TEMPORARY CONCRETE BARRIER, BARRELS, SIGNS, SIGNALS, ETC.
8. CONSTRUCT REMAINING HMA SHOULDERS, ALL HMA SURFACE COURSE, AND REMAINING EARTHWORK USING STANDARD 701306.

NOTE:
1. SEE STANDARD 701321 FOR INDUCTION LOOP DETECTOR AND TEMPORARY RUMBLE STRIPS LOCATIONS.
2. SEE SHEET 20 FOR STAGING TYPICAL SECTIONS.

0 20' 40'

FILE NAME = $FILE$	USER NAME = $USER$	DESIGNED - JDS 10/02/08	REVISED -	
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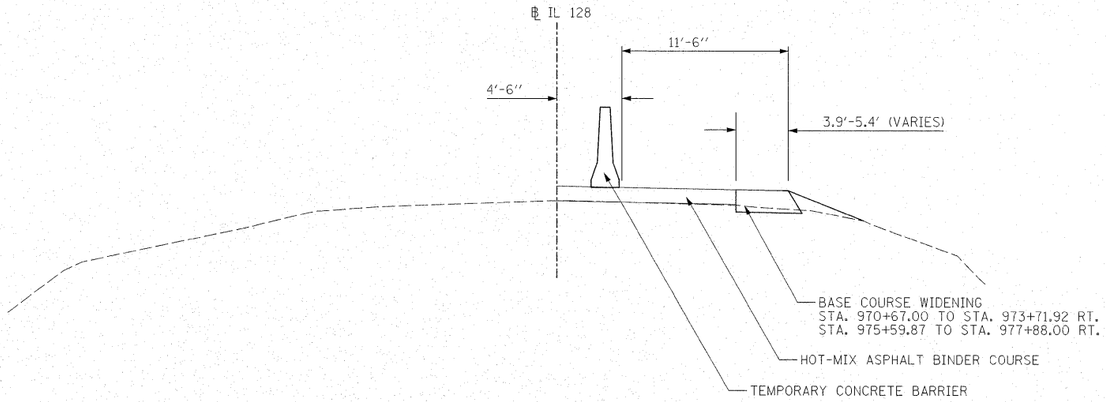
	PLOT DATE = $DATE$	DATE - 10/15/08	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL 128 OVER WOLF CREEK
STAGING PLAN – STAGE 2 CONSTRUCTION

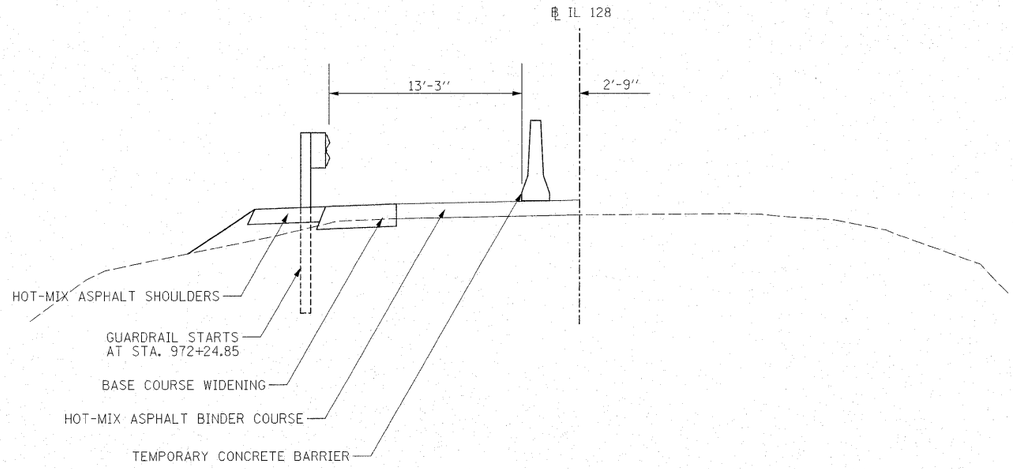
SCALE: 1"=20' | SHEET NO. OF SHEETS | STA. | TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2801	(102B)B-1	EFFINGHAM	51	19
		CONTRACT NO. 74232		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

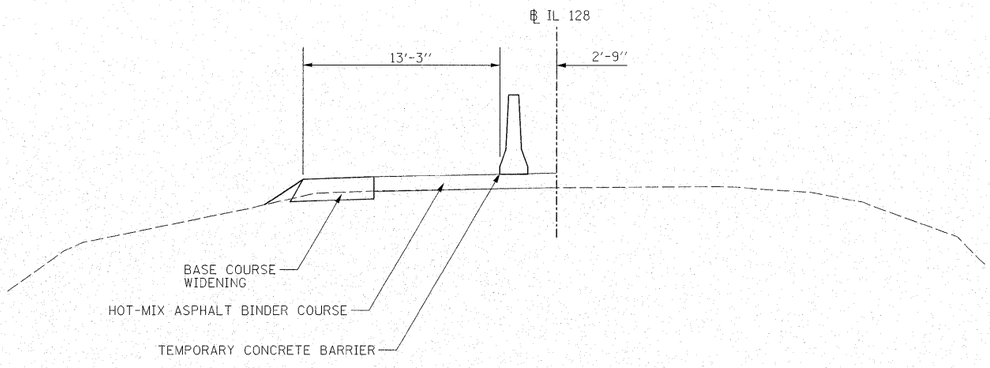


STAGE 1 CONSTRUCTION

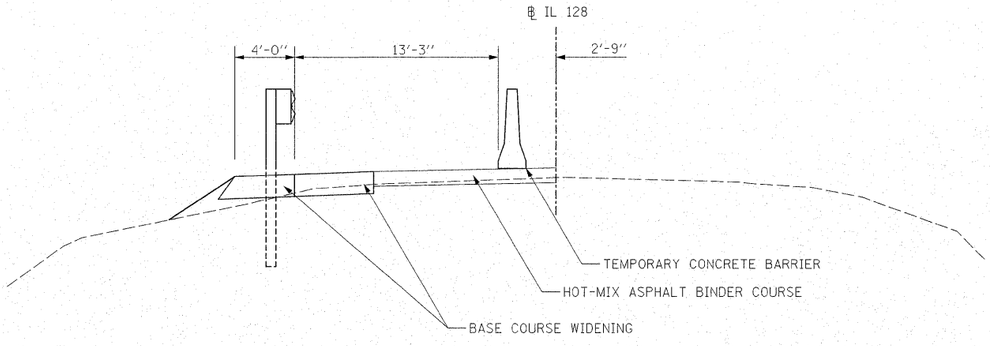
BRIDGE OMMISSION
STA. 973+80.50 TO STA. 975+71.50



STAGE 2 CONSTRUCTION
STA. 971+90.88 TO STA. 973+44.50
STA. 976+07.50 TO STA. 976+40.00



STAGE 2 CONSTRUCTION
STA. 970+71.00 TO STA. 971+90.88
STA. 976+80.00 TO STA. 977+81.00



STAGE 2 CONSTRUCTION
976+40.00 TO STA. 976+80.00

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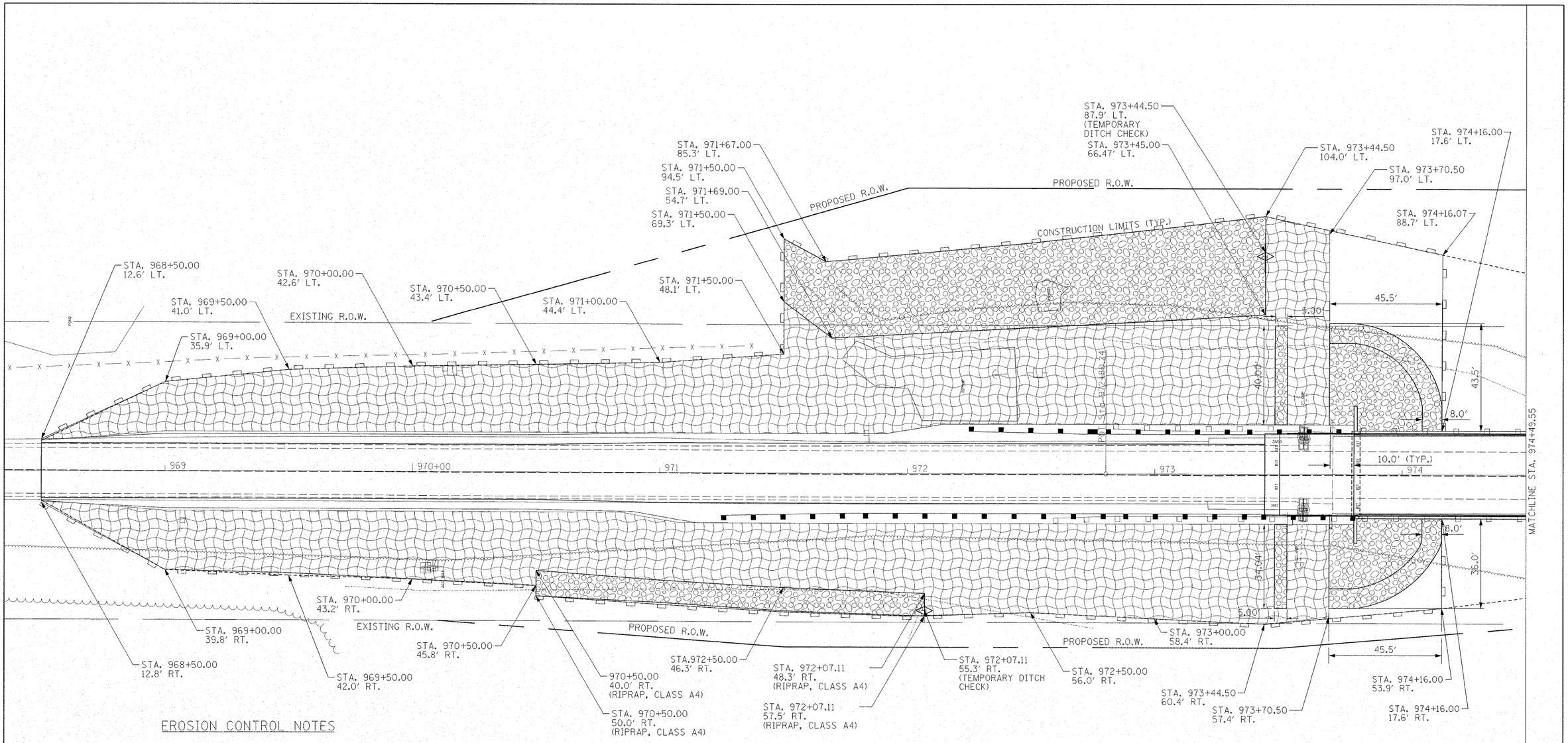
		DRAWN - WLL 07/09/08	REVISED -
	PLOT SCALE = $SCALE$	CHECKED - GBM 10/14/08	REVISED -
	PLOT DATE = $DATE$	DATE - 10/15/08	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL 128 OVER WOLF CREEK
STAGING PLAN DETAILS

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

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2801	(102B)B-1	EFFINGHAM	51	20
		CONTRACT NO. 74232		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



EROSION CONTROL NOTES

EROSION CONTROL MEASURES AT THE START OF CONSTRUCTION

1. THE AREAS OF EXCAVATION AND EMBANKMENT PLACEMENT SHALL BE MANAGED FOR THE PURPOSES OF CONTROLLING EROSION WITHIN THE IMPROVEMENT AREA, REDUCING WATER FLOW BY TEMPORARY DIVERSION, MINIMIZING SILTATION AT THE RIGHT-OF-WAY LINE, AND ESTABLISHING VEGETATIVE COVER WHICH WILL BECOME PERMANENT VEGETATION AND ACT AS AN EROSION CONTROL BARRIER. WORK AT THE START OF CONSTRUCTION SHALL CONSIST OF THE FOLLOWING:

(a) AREAS OF EXISTING VEGETATION (WOODS AND GRASSLANDS) OUTSIDE THE PROPOSED CONSTRUCTION LIMITS SHALL BE IDENTIFIED FOR PRESERVING AND SHALL BE PROTECTED FROM MOWING, BRUSH CUTTING, TREE REMOVAL, AND OTHER ACTIVITIES THAT 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. ANY REMOVAL OF DEAD, DISEASED, OR UNSUITABLE VEGETATION WILL BE PAID FOR AT THE CONTRACT UNIT PRICE FOR EARTH EXCAVATION.

(c) BARE AND SPARSELY VEGETATED GROUND IN HIGHLY ERODIBLE AREAS AS DETERMINED BY THE ENGINEER SHALL BE TEMPORARILY SEEDED AT THE START OF CONSTRUCTION WHEN NO CONSTRUCTION ACTIVITIES ARE EXPECTED WITHIN SEVEN CALENDAR DAYS.

EROSION CONTROL MEASURES DURING CONSTRUCTION:

1. DURING CONSTRUCTION, AREAS OUTSIDE THE CONSTRUCTION LIMITS AS OUTLINED PREVIOUSLY HEREIN SHALL BE PROTECTED FROM DAMAGING EFFECTS OF CONSTRUCTION. THE CONTRACTOR SHALL NOT USE THIS AREA FOR PARKING OF VEHICLES OR CONSTRUCTION EQUIPMENT, STORAGE OF MATERIALS, OR OTHER CONSTRUCTION RELATED ACTIVITIES.

(a) WITHIN THE CONSTRUCTION ZONE, CRITICAL AREAS WHICH HAVE A HIGH FLOW OF WATER, AS DETERMINED BY THE ENGINEER, SHALL REMAIN UNDISTURBED UNTIL CONTINUOUS OPERATIONS CAN ENSURE TIMELY COMPLETION OF WORK IN THESE AREAS TO MINIMIZE SOIL EROSION.

(b) EARTH STOCKPILES SHALL BE TEMPORARILY SEEDED IF THEY ARE TO REMAIN UNUSED FOR MORE THAN FOURTEEN CALENDAR DAYS.

EROSION CONTROL MEASURES AFTER FINAL GRADING:

1. EXCAVATION AND EMBANKMENT AREAS SHALL BE PERMANENTLY SEEDED

EROSION CONTROL LEGEND

- PERIMETER EROSION BARRIER
- TEMPORARY DITCH CHECKS
- EROSION CONTROL BLANKET
- STONE RIPRAP CLASS A4

0 20' 40'
1" = 20'

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	PLOT SCALE = $SCALE$	CHECKED - GBM 10/14/08	REVISED -
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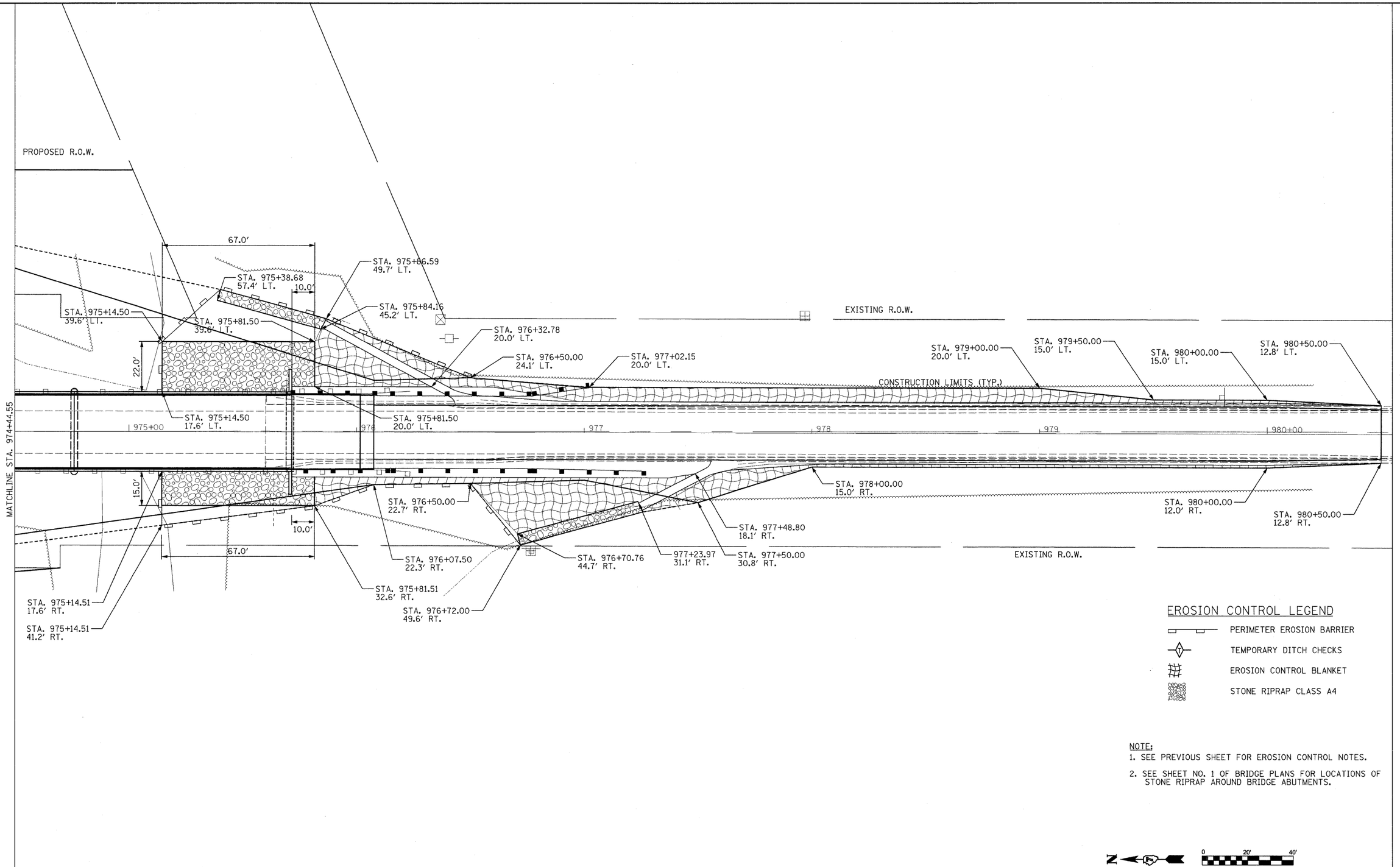
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL 128 OVER WOLF CREEK
EROSION CONTROL

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

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2801	(102B)B-1	EFFINGHAM	51	21
		CONTRACT NO. 74232		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



EROSION CONTROL LEGEND

- PERIMETER EROSION BARRIER
- TEMPORARY DITCH CHECKS
- EROSION CONTROL BLANKET
- STONE RIPRAP CLASS A4

NOTE:

1. SEE PREVIOUS SHEET FOR EROSION CONTROL NOTES.
2. SEE SHEET NO. 1 OF BRIDGE PLANS FOR LOCATIONS OF STONE RIPRAP AROUND BRIDGE ABUTMENTS.

0 20' 40'
1" = 20'

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	PLOT DATE = 12/15/2008	DATE - 10/15/08	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL 128 OVER WOLF CREEK
EROSION CONTROL

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

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2801	(102B)B-1	EFFINGHAM	51	22
		CONTRACT NO. 74232		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

Bench Mark #529- Chiseled square on top of SE wingwall of bridge over Wolf Creek (S.N. 025-0046) Station 975+61.9, 18.0' Lt. of ℄ IL 128; Elev. 565.077.

Existing Structure- S.N. 025-0046; Built in 1931 as S.B.I. 128 Section 102B at Station 974+66. Original structure is a 4-span, 7" reinforced concrete over a steel I-beam superstructure supported by a pile bent north abutment and piers, and an open south abutment on a spread footings. The structure was reconstructed in 1979 as S.B.I. 128, Section 102BR. The substructure was partially removed and widened and the superstructure was replaced and widened using PPC deck beams, 191'-10" bk. to bk. abutments, 33'-0" out to out of deck. Structure is to be removed and replaced with a 2-span 54" PPC I beam bridge on integral abutments. One lane traffic is to be maintained using stage construction.

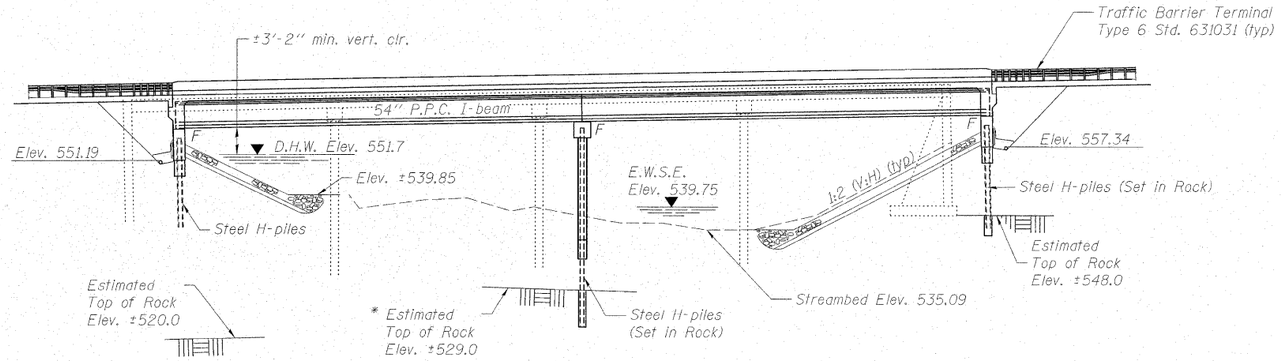
No Salvage-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAS 2801 IL 128	(102B) B-1	EFFINGHAM	51	23
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-		

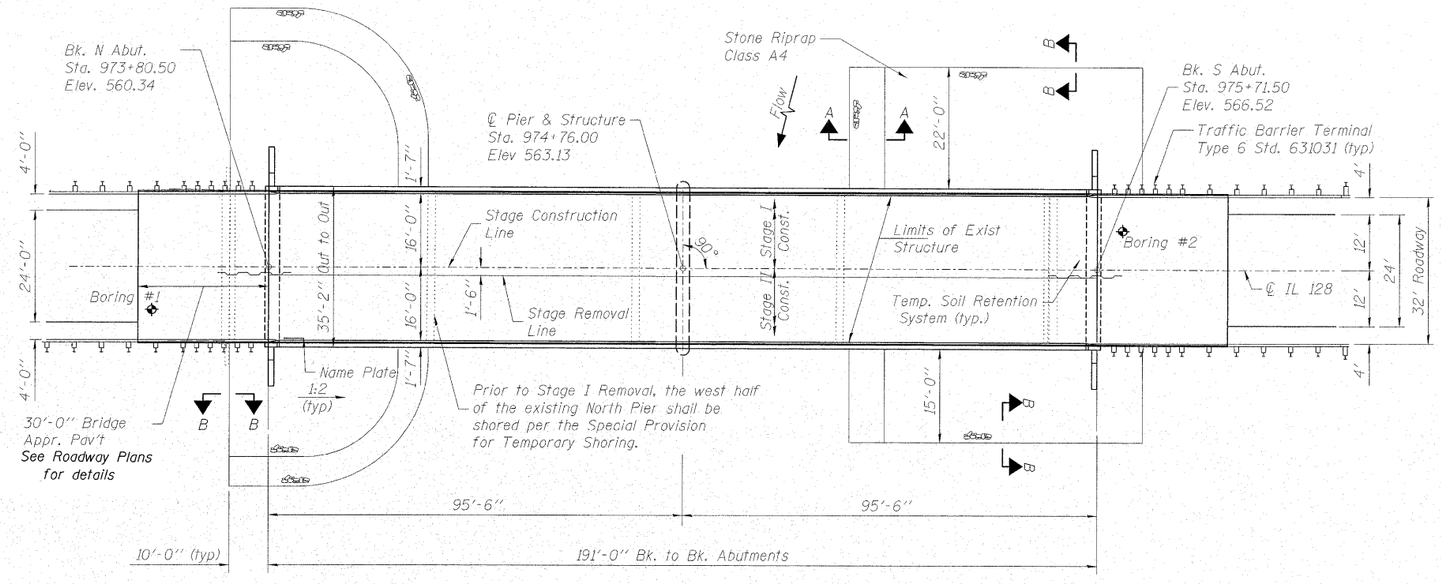
SHEET NO. 1
23 SHEETS

Contract # 74232



* 1974 Soil Borings at each existing substructure are available upon request

ELEVATION



PLAN

APPROVED
FOR STRUCTURAL ADEQUACY ONLY
Ralph E Anderson
ENGINEER OF BRIDGES AND STRUCTURES

STATION 974+76.00
BUILT 200 BY
STATE OF ILLINOIS
F.A.S. RTE. 2801 SEC. (102B)B-1
LOADING HL93
STRUCTURE NO. 025-0105

NAME PLATE
See Std. 515001

INDEX OF SHEETS

DESIGN SCOUR ELEVATION TABLE

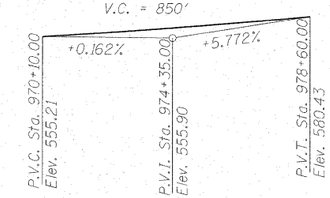
Design Scour Elevation (ft.)	S. Abut.	Pier	N. Abut.
	548.4	529.0	554.5

WATERWAY INFORMATION

Existing Low Grade Elev. = 554.93 @ Sta. 969+24.12
Drainage Area = 48.7 mi.^{2} Proposed Low Grade Elev. = 554.95 @ Sta. 968+50.00

Flood	Freq. Yr.	Q C.F.S.	Opening Sq. Ft. Exist.	Opening Sq. Ft. Prop.	Nat. H.W.E.	Head - Ft. Exist.	Head - Ft. Prop.	Headwater El. Exist.	Headwater El. Prop.
	10	6220	1477	1484	549.8	1.3	1.3	551.1	551.1
Design	50	9690	1773	1785	551.7	1.9	1.9	553.6	553.6
Base	100	11300	1901	1916	552.5	2.1	2.1	554.6	554.6
Overlopping	150	12300	2033	2050	553.0	2.2	2.2	555.2	555.2
Max. Calc.	500	15200	2184	2204	554.2	1.1	1.1	555.3	555.3

10-Year Velcity through Existing Bridge = 4.21 fps
10-Year Velcity through Proposed Bridge = 4.19 fps



PROFILE GRADE
(along ℄ roadway)

MAURER & STUTZ, INC. ENGINEERS SURVEYORS

DESIGNED	- BAS
CHECKED	- KEF
DRAWN	- LAD
CHECKED	- RJA

STATE OF ILLINOIS
KRISTEN E. FIELDS
5714
PEORIA, ILL.
LICENSED STRUCTURAL ENGINEER

Kristen Fields 12-10-08
Date Signed:

Exp. Date: 11-30-10

DESIGN STRESSES

FIELD UNITS
f'_c = 3,500 psi
f_y = 60,000 psi (reinforcement)

PRECAST PRESTRESSED UNITS
f'_c = 7,000 psi
f'_{ci} = 6,000 psi
f'_s = 270,000 psi (1/2" ϕ low lax strands)
f_{si} = 201,960 psi (1/2" ϕ low lax strands)

SEISMIC DATA

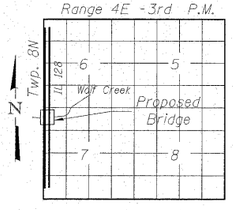
Seismic Performance Zone (SPZ) = 1
Bedrock Acceleration Coefficient (A) = 0.069 g
Site Coefficient (S) = 1.5

DESIGN SPECIFICATIONS

2007 AASHTO LRFD Bridge Design Specifications - 4th ed.

LOADING HL-93

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



LOCATION SKETCH

GENERAL PLAN & ELEVATION
IL ROUTE 128 OVER WOLF CREEK
F.A.S. RTE. 2801 - SECTION (102B)B-1
EFFINGHAM COUNTY
STATION 974+76.00
STRUCTURE NO. 025-0105

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAS 2801 IL 128	(102B) B-1	EFFINGHAM	51	24
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT-	

SHEET NO. 2
23 SHEETS

Contract # 74232

GENERAL NOTES

Reinforcement bars shall conform to the requirements of ASTM A 706 Gr 60 (IL Modified). See Special Provisions.

Reinforcement bars designated (E) shall be epoxy coated.

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

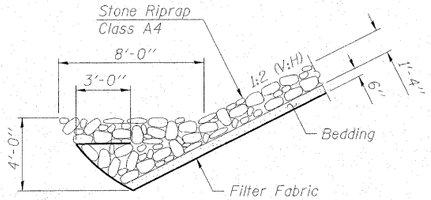
The Contractor shall drive test piles to 110% of the nominal required bearing specified in production locations at substructures specified or approved by the Engineer before ordering the remainder of piles.

All embedded and separate bearing plates, side retainers, anchor bolts, nuts, washers and pintles shall be galvanized according to AASHTO M111 or M232 (as applicable).

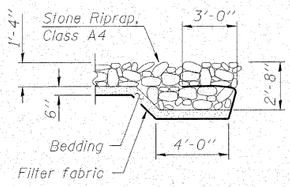
The Contractor is advised that the existing PPC deck beams are in a deteriorated condition with reduced load carrying capacity. It is the Contractor's responsibility to account for the condition of the beams when developing construction procedures for removal and replacement of the structure.

In lieu of the hammer selection criteria and use of the FHWA Modified Gates formula specified in Secion 512 of the Standard Specifications, the Contractor shall conduct a wave equation analysis to establish the driving criteria at all pile foundations which specify a nominal required bearing above 600 kips. The analysis and calculations shall be submitted to the Engineer for approval.

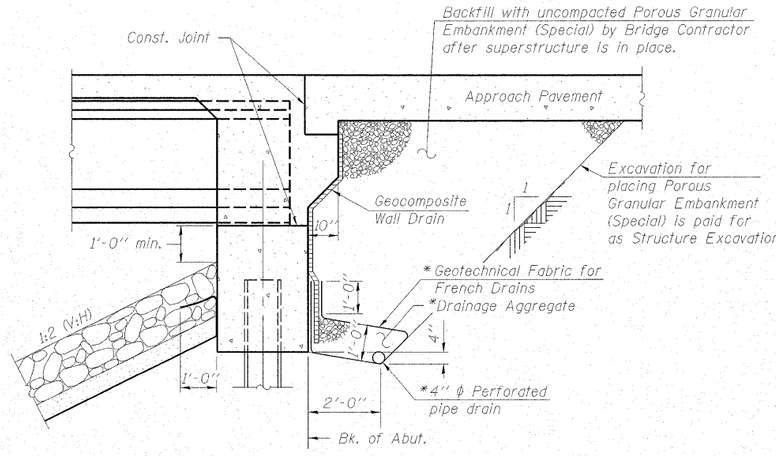
Slipforming of parapets is not allowed.



SECTION A-A



SECTION B-B



SECTION THRU INTEGRAL ABUTMENT

*Included in the cost of Pipe Underdrains for Structures, 4".
Note:
All drainage system components shall extend to 2'-0" from the end of each wingwall except an outlet pipe shall extend until intersecting with the side slopes. The pipes shall drain into concrete headwalls.
(See Article 601.05 of the Standard Specifications and Highway Standard 601101).

A quantity for Pipe Drain 4" has been provided to extend the Pipe Underdrains for Structures, 4" from the edge of wingwalls to the toe of the proposed slope.

TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
Porous Granular Embankment (Special)	Cu. Yd.		116	116
Stone Riprap, Class A4	Sq. Yd.		1159	1159
Filter Fabric	Sq. Yd.		1159	1159
Removal of Existing Structures	Each			1
Structure Excavation	Cu. Yd.		169	169
Concrete Structures	Cu. Yd.		115.0	115.0
Concrete Superstructure	Cu. Yd.	258.6		258.6
Bridge Deck Grooving	Sq. Yd.	837		837
Concrete Encasement	Cu. Yd.		8.6	8.6
Protective Coat	Sq. Yd.	839		839
Furnishing and Erecting Precast Prestressed Concrete I Beams, 54"	Foot	1136		1136
Reinforcement Bars, Epoxy Coated	Pound	58180	9960	68140
Bar Splicers	Each	603	72	675
Furnishing Steel Piles HP12x63	Foot		360	360
Furnishing Steel Piles HP14x89	Foot		308	308
Driving Piles	Foot		220	220
Test Pile Steel HP12x63	Each		1	1
Name Plates	Each	1		1
Geocomposite Wall Drain	Sq. Yd.		84	84
Pipe Underdrains for Structures, 4"	Foot		154	154
Asbestos Bearing Pad Removal	Each		88	88
Temporary Shoring	Each		1	1
Temporary Soil Retention System	Sq. Ft.		218	218
Underwater Structure Excavtion Protection, Location 1	Each		1	1
Setting and Driving Piles in Rock	Each		12	12
Setting and Driving Test Piles in Rock, HP12x63	Each		1	1
Setting and Driving Test Piles in Rock, HP14x89	Each		1	1

MAURER & STUTZ, INC.
ENGINEERS SURVEYORS

DESIGNED	- BAS
CHECKED	- KEF
DRAWN	- LAD
CHECKED	- RJA

GENERAL NOTES,
TOTAL BILL OF MATERIAL
IL ROUTE 128 OVER WOLF CREEK
F.A.S. RTE. 2801 - SECTION (102B)B-1
EFFINGHAM COUNTY
STATION 974+76.00
STRUCTURE NO. 025-0105

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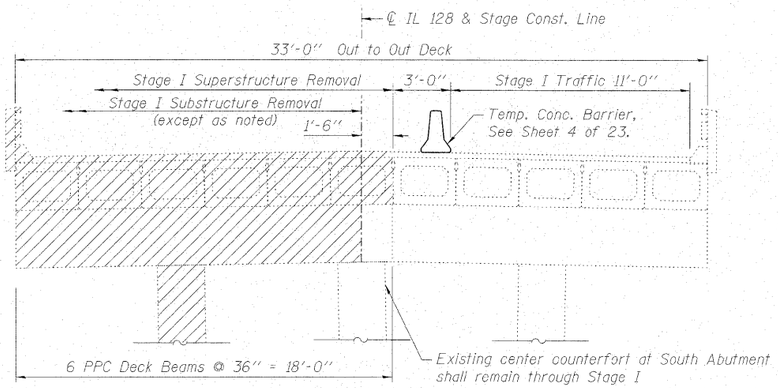
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

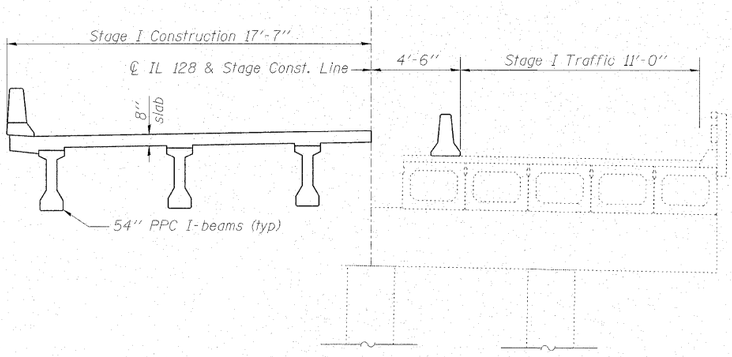
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAS 2801 IL 128	(102B) B-1	EFFINGHAM	51	25
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT-	

SHEET NO. 3
23 SHEETS

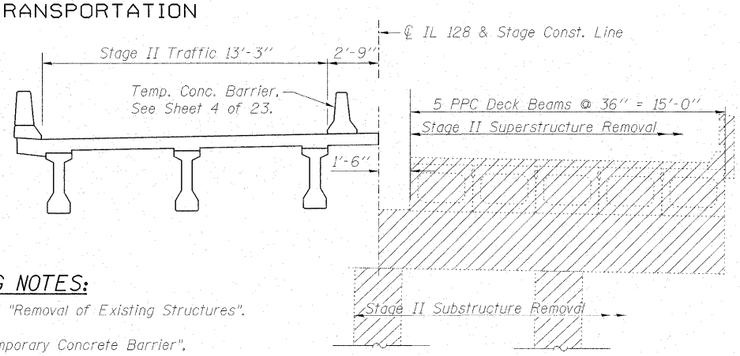
Contract # 74232



STAGE I REMOVAL
(Looking South)



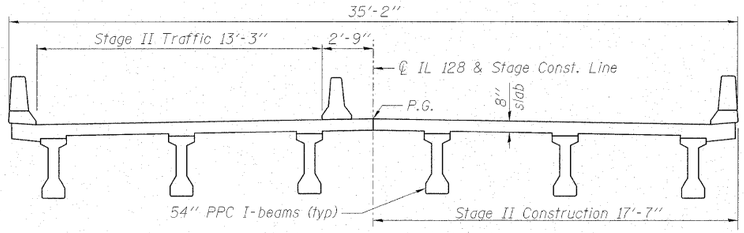
STAGE I CONSTRUCTION
(Looking South)



STAGING NOTES:

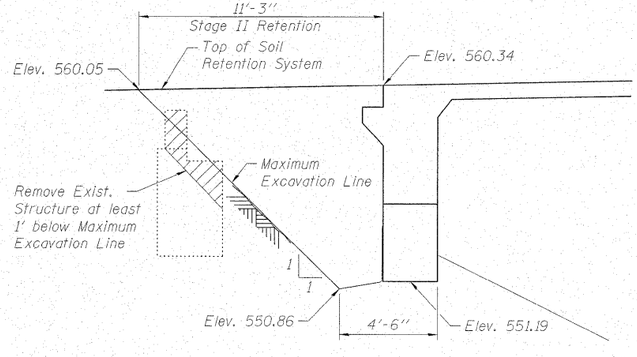
1. Hatched areas indicate "Removal of Existing Structures".
2. For quantities of "Temporary Concrete Barrier", see Roadway Plans.

STAGE II REMOVAL
(Looking South)

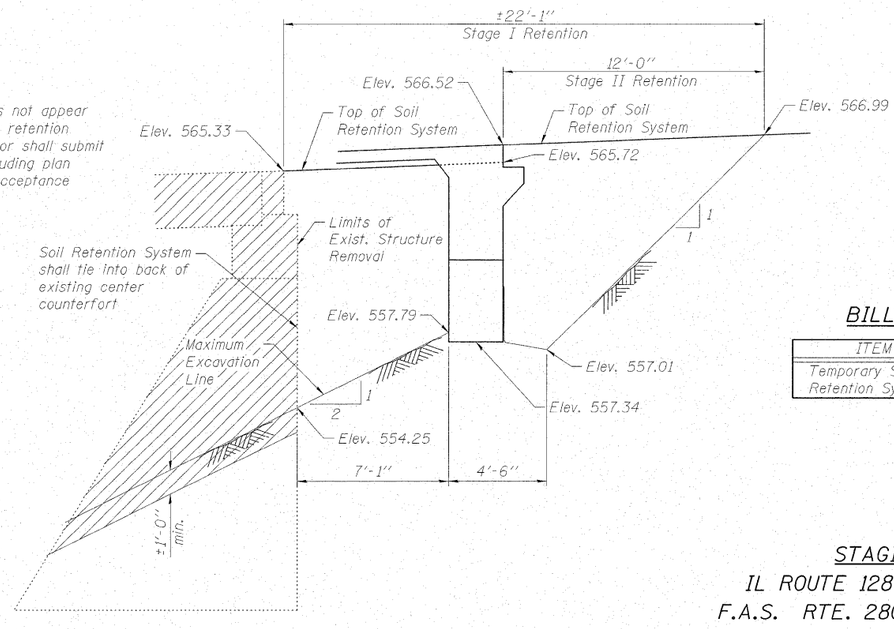


STAGE II CONSTRUCTION
(Looking South)

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



TEMPORARY SOIL RETENTION SYSTEM
(North Abutment)



TEMPORARY SOIL RETENTION SYSTEM
(South Abutment)

BILL OF MATERIAL

ITEM	UNIT	TOTAL
Temporary Soil Retention System	Sq. Ft.	218

MAURER & STUTZ, INC.
ENGINEERS SURVEYORS

DESIGNED	- BAS
CHECKED	- KEF
DRAWN	- LAD
CHECKED	- RJA

STAGING DETAILS
IL ROUTE 128 OVER WOLF CREEK
F.A.S. RTE. 2801 - SECTION (102B)B-1
EFFINGHAM COUNTY
STATION 974+76.00
STRUCTURE NO. 025-0105

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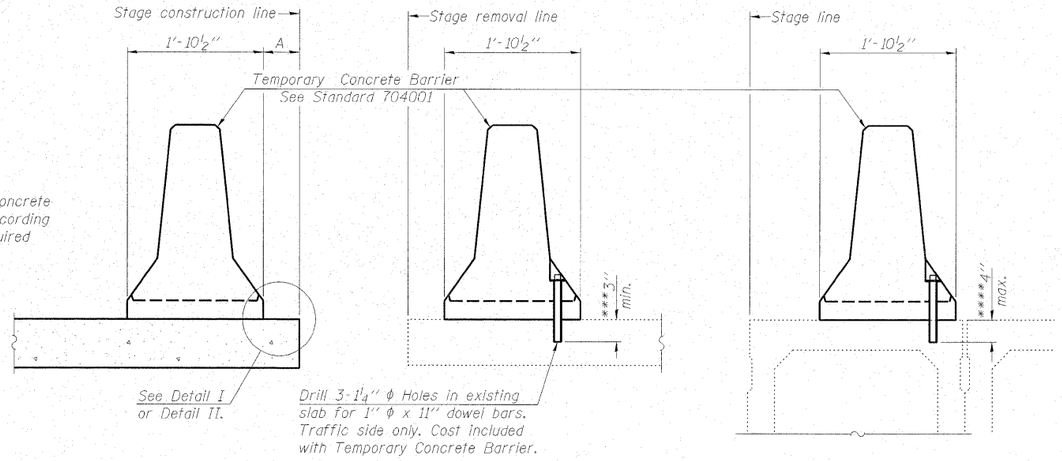
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAS 2801 IL 128	(102B) B-1	EFFINGHAM	51	26
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-		

SHEET NO. 4
23 SHEETS

Contract # 74232



NEW SLAB — EXISTING SLAB — EXISTING DECK BEAM

When "A" is 3'-6" or less, the temporary concrete barrier shall be anchored to the new slab according to Detail I or Detail II. No anchorage is required when "A" is greater than 3'-6".

NOTES

Detail I - With Bar Splicer or Couplers:
Connect one (1) 1"x7"x10" steel ℙ to the top layer of couplers with 2-$\frac{5}{8}$" ϕ bolts screwed to coupler at approximate ℄ of each barrier panel.

Detail II - With Extended Reinforcement Bars:
Connect one (1) 1"x7"x10" steel ℙ to the concrete slab or concrete wearing surface with 2-$\frac{5}{8}$"ϕ Expansion Anchors or cast in place inserts spaced between the top layer of reinforcement at approximate ℄ of each barrier panel.

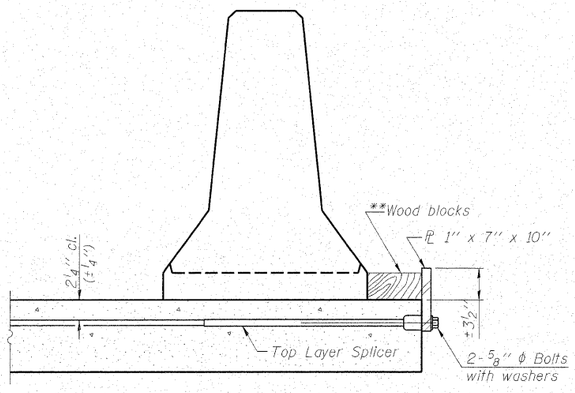
Cost of anchorage is included with Temporary Concrete Barrier.

The 1" x 7" x 10" plate shall not be removed until stage II construction forms and all reinforcement bars are in place and the concrete is ready to be placed.

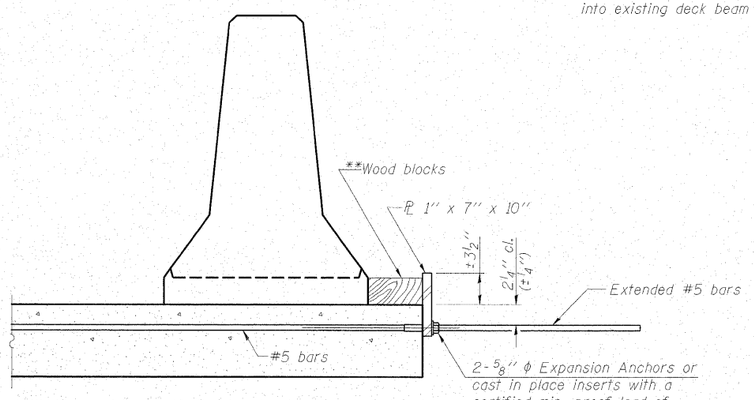
SECTIONS THRU SLAB OR DECK BEAM

***Dimension shown is minimum required embedment into concrete. If hot-mix asphalt wearing surface is present, minimum embedment shall be in addition to wearing surface depth.

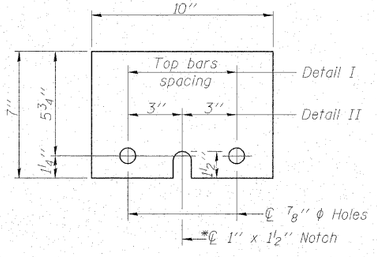
****If existing deck beam is to remain in place after stage construction, embedment shall only be into wearing surface and not into existing deck beam concrete.



DETAIL I



DETAIL II



STEEL RETAINER ℙ 1" x 7" x 10"

*Required only with Detail II

**Wood blocks may be omitted when required to provide minimum stage traffic lane width. When the wood blocks are omitted, the concrete barrier shall be in direct contact with the steel retainer plate.

MAURER & STUTZ, INC. ENGINEERS SURVEYORS

DESIGNED	- BAS
CHECKED	- KEF
DRAWN	- SGM
CHECKED	- RJA

R-27 5-16-08

TEMPORARY CONCRETE BARRIER
FOR STAGE CONSTRUCTION
IL ROUTE 128 OVER WOLF CREEK
F.A.S. RTE. 2801 - SECTION (102B)B-1
EFFINGHAM COUNTY
STATION 974+76.00
STRUCTURE NO. 025-0105

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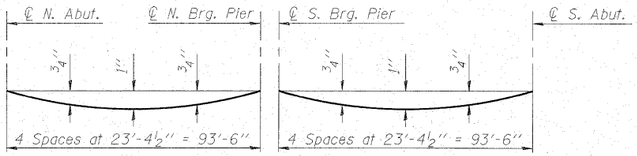
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAS 2801 IL 128	(102B) B-1	EFFINGHAM	51	27
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT-	

SHEET NO. 5
23 SHEETS

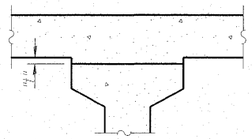
Contract # 74232



DEAD LOAD DEFLECTION DIAGRAM

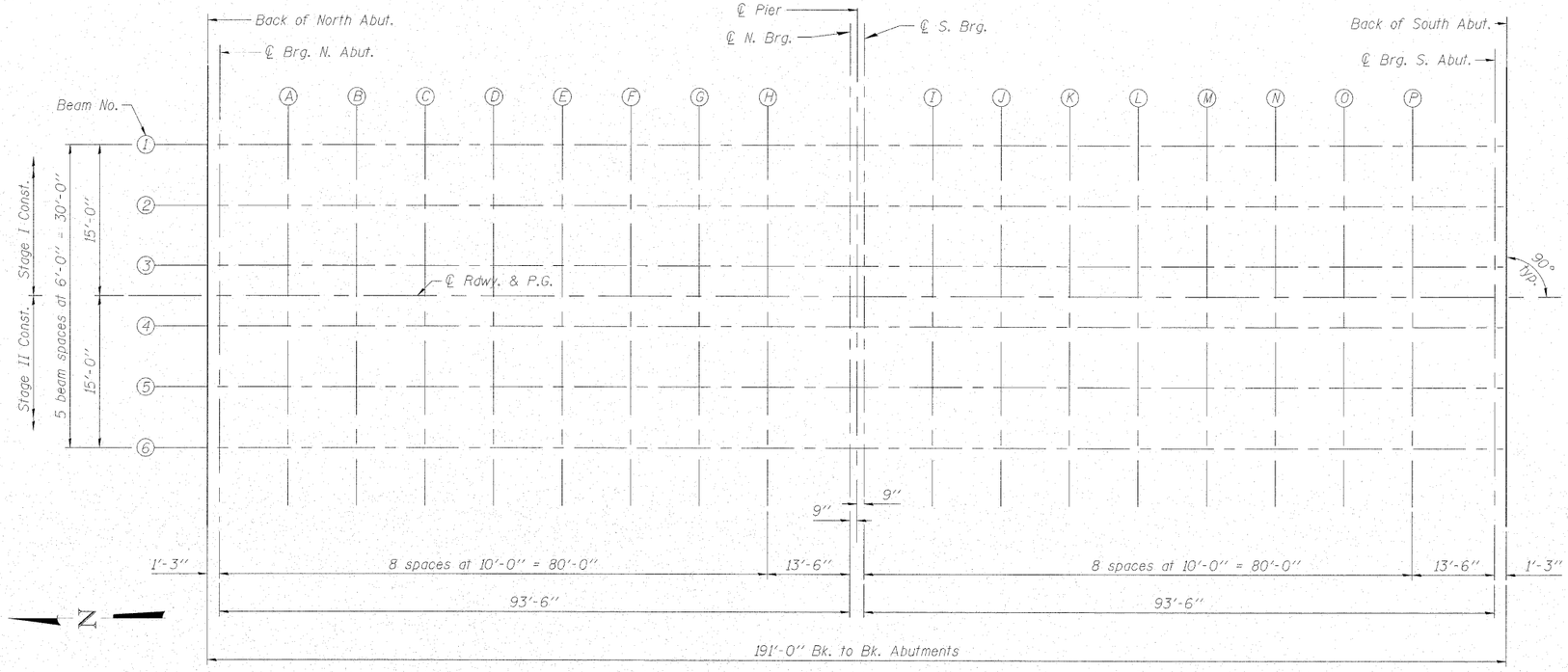
(Includes weight of concrete, excluding beams).

Note:
The above deflections are not to be used in the field if the engineer is working from the grade elevations adjusted for dead load deflections as shown below.



To determine "t": After all precast prestressed beams have been erected, elevations of the top flanges of the beams shall be taken at intervals shown below. These elevations subtracted from the "Theoretical Grade Elevations Adjusted for Dead Load Deflections" shown below, minus slab thickness, equals the fillet heights "t" above top flanges of beams.

FILLET HEIGHTS



BEAM 1

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Back of North Abut.	973+80.50	-15.00	560.09	560.09
CL Brg. N. Abut.	973+81.75	-15.00	560.12	560.12
A	973+91.75	-15.00	560.39	560.42
B	974+01.75	-15.00	560.66	560.71
C	974+11.75	-15.00	560.94	561.01
D	974+21.75	-15.00	561.22	561.31
E	974+31.75	-15.00	561.51	561.60
F	974+41.75	-15.00	561.81	561.89
G	974+51.75	-15.00	562.12	562.18
H	974+61.75	-15.00	562.43	562.46
CL N. Brg. Pier	974+75.25	-15.00	562.86	562.86
CL S. Brg. Pier	974+76.75	-15.00	562.91	562.91
I	974+86.75	-15.00	563.23	563.26
J	974+96.75	-15.00	563.57	563.62
K	975+06.75	-15.00	563.91	563.98
L	975+16.75	-15.00	564.26	564.34
M	975+26.75	-15.00	564.61	564.70
N	975+36.75	-15.00	564.97	565.05
O	975+46.75	-15.00	565.34	565.40
P	975+56.75	-15.00	565.71	565.75
CL Brg. S. Abut.	975+70.25	-15.00	566.23	566.23
Back of South Abut.	975+71.50	-15.00	566.27	566.27

MAURER & STUTZ, INC.
ENGINEERS SURVEYORS

DESIGNED	- BAS
CHECKED	- KEF
DRAWN	- LAD
CHECKED	- RJA

TOP OF SLAB ELEVATIONS

IL ROUTE 128 OVER WOLF CREEK
F.A.S. RTE. 2801 - SECTION (102B)B-1
EFFINGHAM COUNTY
STATION 974+76.00
STRUCTURE NO. 025-0105

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAS 2801 IL 128	(102B) B-1	EFFINGHAM	51	28
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-		

SHEET NO. 6
23 SHEETS

Contract # 74232

BEAM 2

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Back of North Abut.	973+80.50	-9.00	560.20	560.20
CL Brg. N. Abut.	973+81.75	-9.00	560.23	560.23
A	973+91.75	-9.00	560.50	560.53
B	974+01.75	-9.00	560.77	560.82
C	974+11.75	-9.00	561.05	561.12
D	974+21.75	-9.00	561.33	561.42
E	974+31.75	-9.00	561.62	561.71
F	974+41.75	-9.00	561.92	562.00
G	974+51.75	-9.00	562.22	562.29
H	974+61.75	-9.00	562.54	562.57
CL N. Brg. Pier	974+75.25	-9.00	562.97	562.97
CL S. Brg. Pier	974+76.75	-9.00	563.01	563.01
I	974+86.75	-9.00	563.34	563.37
J	974+96.75	-9.00	563.68	563.73
K	975+06.75	-9.00	564.02	564.09
L	975+16.75	-9.00	564.36	564.45
M	975+26.75	-9.00	564.72	564.80
N	975+36.75	-9.00	565.08	565.16
O	975+46.75	-9.00	565.45	565.51
P	975+56.75	-9.00	565.82	565.86
CL Brg. S. Abut.	975+70.25	-9.00	566.33	566.33
Back of South Abut.	975+71.50	-9.00	566.38	566.38

BEAM 3

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Back of North Abut.	973+80.50	-3.00	560.29	560.29
CL Brg. N. Abut.	973+81.75	-3.00	560.33	560.33
A	973+91.75	-3.00	560.59	560.62
B	974+01.75	-3.00	560.86	560.92
C	974+11.75	-3.00	561.14	561.21
D	974+21.75	-3.00	561.42	561.51
E	974+31.75	-3.00	561.72	561.80
F	974+41.75	-3.00	562.01	562.09
G	974+51.75	-3.00	562.32	562.38
H	974+61.75	-3.00	562.63	562.67
CL N. Brg. Pier	974+75.25	-3.00	563.06	563.06
CL S. Brg. Pier	974+76.75	-3.00	563.11	563.11
I	974+86.75	-3.00	563.44	563.46
J	974+96.75	-3.00	563.77	563.82
K	975+06.75	-3.00	564.11	564.18
L	975+16.75	-3.00	564.46	564.54
M	975+26.75	-3.00	564.81	564.90
N	975+36.75	-3.00	565.17	565.25
O	975+46.75	-3.00	565.54	565.60
P	975+56.75	-3.00	565.91	565.95
CL Brg. S. Abut.	975+70.25	-3.00	566.43	566.43
Back of South Abut.	975+71.50	-3.00	566.48	566.48

℄ ROADWAY, P.G. & STAGE CONST. LINE

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Back of North Abut.	973+80.50	0.00	560.34	560.34
CL Brg. N. Abut.	973+81.75	0.00	560.37	560.37
A	973+91.75	0.00	560.64	560.67
B	974+01.75	0.00	560.91	560.96
C	974+11.75	0.00	561.19	561.26
D	974+21.75	0.00	561.47	561.55
E	974+31.75	0.00	561.76	561.85
F	974+41.75	0.00	562.06	562.14
G	974+51.75	0.00	562.37	562.43
H	974+61.75	0.00	562.68	562.72
CL N. Brg. Pier	974+75.25	0.00	563.11	563.11
CL S. Brg. Pier	974+76.75	0.00	563.16	563.16
I	974+86.75	0.00	563.48	563.51
J	974+96.75	0.00	563.82	563.87
K	975+06.75	0.00	564.16	564.23
L	975+16.75	0.00	564.51	564.59
M	975+26.75	0.00	564.86	564.95
N	975+36.75	0.00	565.22	565.30
O	975+46.75	0.00	565.59	565.65
P	975+56.75	0.00	565.96	566.00
CL Brg. S. Abut.	975+70.25	0.00	566.48	566.48
Back of South Abut.	975+71.50	0.00	566.52	566.52

MAURER & STUTZ, INC.
ENGINEERS SURVEYORS

DESIGNED	- BAS
CHECKED	- KEF
DRAWN	- LAD
CHECKED	- RJA

TOP OF SLAB ELEVATIONS
IL ROUTE 128 OVER WOLF CREEK
F.A.S. RTE. 2801 - SECTION (102B)B-1
EFFINGHAM COUNTY
STATION 974+76.00
STRUCTURE NO. 025-0105

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAS 2801 IL 128	(102B) B-1	EFFINGHAM	51	29
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-		

SHEET NO. 7
23 SHEETS

Contract # 74232

BEAM 4

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Back of North Abut.	973+80.50	3.00	560.29	560.29
CL Brg. N. Abut.	973+81.75	3.00	560.33	560.33
A	973+91.75	3.00	560.59	560.62
B	974+01.75	3.00	560.86	560.92
C	974+11.75	3.00	561.14	561.21
D	974+21.75	3.00	561.42	561.51
E	974+31.75	3.00	561.72	561.80
F	974+41.75	3.00	562.01	562.09
G	974+51.75	3.00	562.32	562.38
H	974+61.75	3.00	562.63	562.67
CL N. Brg. Pier	974+75.25	3.00	563.06	563.06
CL S. Brg. Pier	974+76.75	3.00	563.11	563.11
I	974+86.75	3.00	563.44	563.46
J	974+96.75	3.00	563.77	563.82
K	975+06.75	3.00	564.11	564.18
L	975+16.75	3.00	564.46	564.54
M	975+26.75	3.00	564.81	564.90
N	975+36.75	3.00	565.17	565.25
O	975+46.75	3.00	565.54	565.60
P	975+56.75	3.00	565.91	565.95
CL Brg. S. Abut.	975+70.25	3.00	566.43	566.43
Back of South Abut.	975+71.50	3.00	566.48	566.48

BEAM 5

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Back of North Abut.	973+80.50	9.00	560.20	560.20
CL Brg. N. Abut.	973+81.75	9.00	560.23	560.23
A	973+91.75	9.00	560.50	560.53
B	974+01.75	9.00	560.77	560.82
C	974+11.75	9.00	561.05	561.12
D	974+21.75	9.00	561.33	561.42
E	974+31.75	9.00	561.62	561.71
F	974+41.75	9.00	561.92	562.00
G	974+51.75	9.00	562.22	562.29
H	974+61.75	9.00	562.54	562.57
CL N. Brg. Pier	974+75.25	9.00	562.97	562.97
CL S. Brg. Pier	974+76.75	9.00	563.01	563.01
I	974+86.75	9.00	563.34	563.37
J	974+96.75	9.00	563.68	563.73
K	975+06.75	9.00	564.02	564.09
L	975+16.75	9.00	564.36	564.45
M	975+26.75	9.00	564.72	564.80
N	975+36.75	9.00	565.08	565.16
O	975+46.75	9.00	565.45	565.51
P	975+56.75	9.00	565.82	565.86
CL Brg. S. Abut.	975+70.25	9.00	566.33	566.33
Back of South Abut.	975+71.50	9.00	566.38	566.38

BEAM 6

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Back of North Abut.	973+80.50	15.00	560.09	560.09
CL Brg. N. Abut.	973+81.75	15.00	560.12	560.12
A	973+91.75	15.00	560.39	560.42
B	974+01.75	15.00	560.66	560.71
C	974+11.75	15.00	560.94	561.01
D	974+21.75	15.00	561.22	561.31
E	974+31.75	15.00	561.51	561.60
F	974+41.75	15.00	561.81	561.89
G	974+51.75	15.00	562.12	562.18
H	974+61.75	15.00	562.43	562.46
CL N. Brg. Pier	974+75.25	15.00	562.86	562.86
CL S. Brg. Pier	974+76.75	15.00	562.91	562.91
I	974+86.75	15.00	563.23	563.26
J	974+96.75	15.00	563.57	563.62
K	975+06.75	15.00	563.91	563.98
L	975+16.75	15.00	564.26	564.34
M	975+26.75	15.00	564.61	564.70
N	975+36.75	15.00	564.97	565.05
O	975+46.75	15.00	565.34	565.40
P	975+56.75	15.00	565.71	565.75
CL Brg. S. Abut.	975+70.25	15.00	566.23	566.23
Back of South Abut.	975+71.50	15.00	566.27	566.27

MAURER & STUTZ, INC. ENGINEERS SURVEYORS

DESIGNED	- BAS
CHECKED	- KEF
DRAWN	- LAD
CHECKED	- RJA

TOP OF SLAB ELEVATIONS
IL ROUTE 128 OVER WOLF CREEK
F.A.S. RTE. 2801 - SECTION (102B)B-1
EFFINGHAM COUNTY
STATION 974+76.00
STRUCTURE NO. 025-0105

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAS 2801 IL 128	(102B) B-1	EFFINGHAM	51	30
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT-	

SHEET NO. 8
23 SHEETS

Contract # 74232

EAST CURB LINE

Location	Station	Offset	Theoretical Grade Elevations
End of North Appr. Pavt.	973+50.50	-16.42	559.31
Q	973+60.50	-16.42	559.55
R	973+70.50	-16.42	559.80
Back of North Abut.	973+80.50	-16.42	560.06

EAST EDGE OF PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations
End of North Appr. Pavt.	973+50.50	-12.00	559.40
Q	973+60.50	-12.00	559.64
R	973+70.50	-12.00	559.89
Back of North Abut.	973+80.50	-12.00	560.15

℄ ROADWAY & P.G.

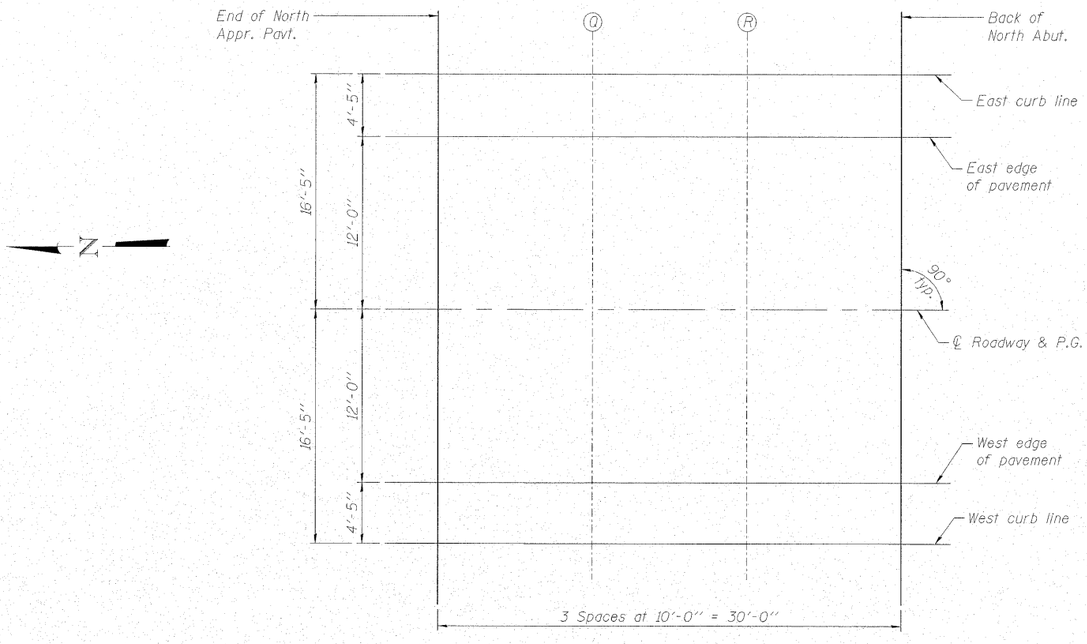
Location	Station	Offset	Theoretical Grade Elevations
End of North Appr. Pavt.	973+50.50	0.00	559.59
Q	973+60.50	0.00	559.83
R	973+70.50	0.00	560.08
Back of North Abut.	973+80.50	0.00	560.34

WEST EDGE OF PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations
End of North Appr. Pavt.	973+50.50	12.00	559.40
Q	973+60.50	12.00	559.64
R	973+70.50	12.00	559.89
Back of North Abut.	973+80.50	12.00	560.15

WEST CURB LINE

Location	Station	Offset	Theoretical Grade Elevations
End of North Appr. Pavt.	973+50.50	16.42	559.31
Q	973+60.50	16.42	559.55
R	973+70.50	16.42	559.80
Back of North Abut.	973+80.50	16.42	560.06



PLAN

MAURER & STUTZ, INC. ENGINEERS SURVEYORS

DESIGNED	BAS
CHECKED	KEF
DRAWN	LAD
CHECKED	RJA

TOP OF NORTH APPROACH
SLAB ELEVATIONS
IL ROUTE 128 OVER WOLF CREEK
F.A.S. RTE. 2801 - SECTION (102B)B-1
EFFINGHAM COUNTY
STATION 974+76.00
STRUCTURE NO. 025-0105

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAS 2801 IL 128	(102B) B-1	EFFINGHAM	51	31
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT-	

SHEET NO. 9
23 SHEETS

Contract # 74232

EAST CURB LINE

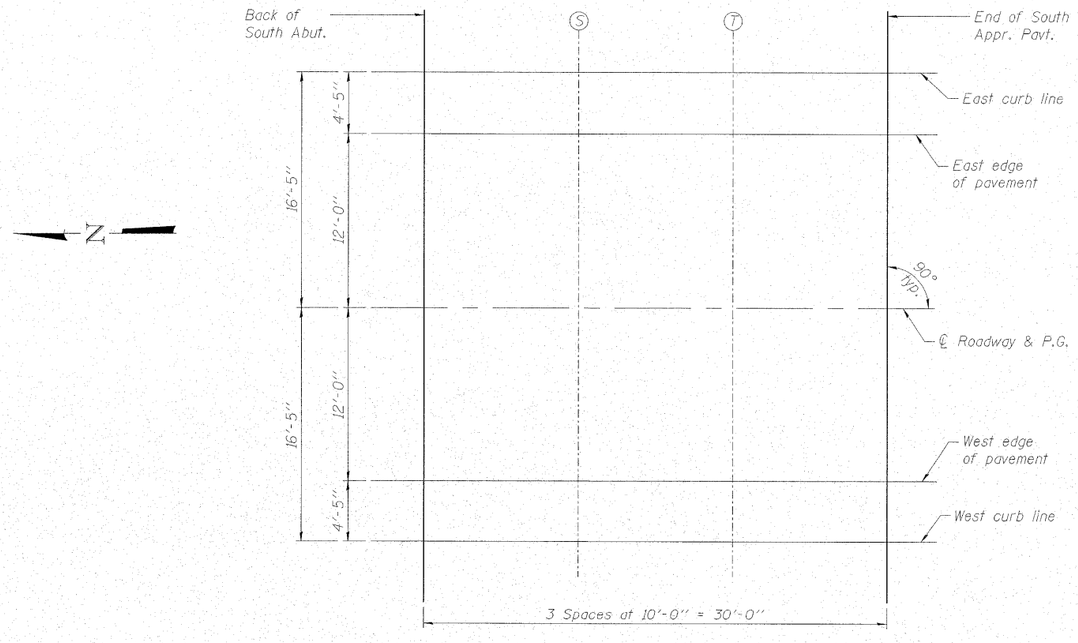
Location	Station	Offset	Theoretical Grade Elevations
Back of South Abut.	975+71.50	-16.42	566.24
S	975+81.50	-16.42	566.63
T	975+91.50	-16.42	567.03
End of South Appr. Pavt.	976+01.50	-16.42	567.43

EAST EDGE OF PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations
Back of South Abut.	975+71.50	-12.00	566.34
S	975+81.50	-12.00	566.73
T	975+91.50	-12.00	567.12
End of South Appr. Pavt.	976+01.50	-12.00	567.53

℄ ROADWAY & P.G.

Location	Station	Offset	Theoretical Grade Elevations
Back of South Abut.	975+71.50	0.00	566.52
S	975+81.50	0.00	566.91
T	975+91.50	0.00	567.31
End of South Appr. Pavt.	976+01.50	0.00	567.71



PLAN

WEST EDGE OF PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations
Back of South Abut.	975+71.50	12.00	566.34
S	975+81.50	12.00	566.73
T	975+91.50	12.00	567.12
End of South Appr. Pavt.	976+01.50	12.00	567.53

WEST CURB LINE

Location	Station	Offset	Theoretical Grade Elevations
Back of South Abut.	975+71.50	16.42	566.24
S	975+81.50	16.42	566.63
T	975+91.50	16.42	567.03
End of South Appr. Pavt.	976+01.50	16.42	567.43

MAURER & STUTZ, INC.
ENGINEERS SURVEYORS

DESIGNED	- BAS
CHECKED	- KEF
DRAWN	- LAD
CHECKED	- RJA

TOP OF SOUTH APPROACH
SLAB ELEVATIONS
IL ROUTE 128 OVER WOLF CREEK
F.A.S. RTE. 2801 - SECTION (102B)B-1
EFFINGHAM COUNTY
STATION 974+76.00
STRUCTURE NO. 025-0105

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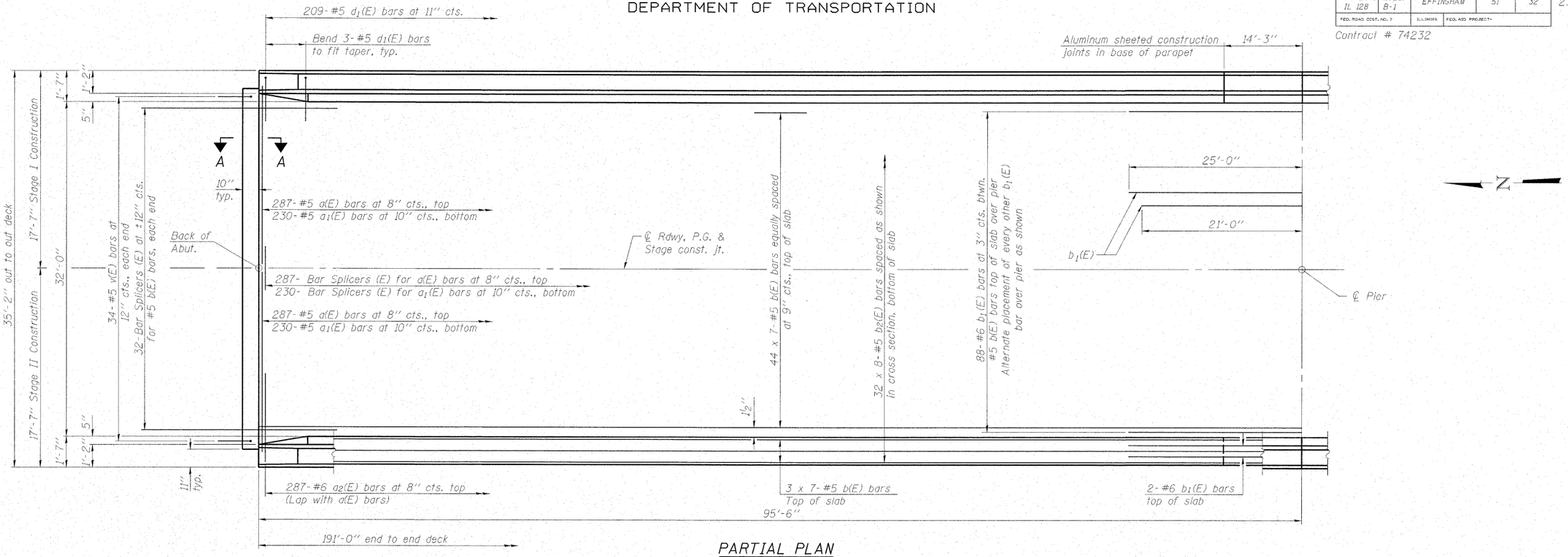
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAS 2801 IL 128	(102B) B-1	EFFINGHAM	51	32
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-		

SHEET NO. 10
23 SHEETS

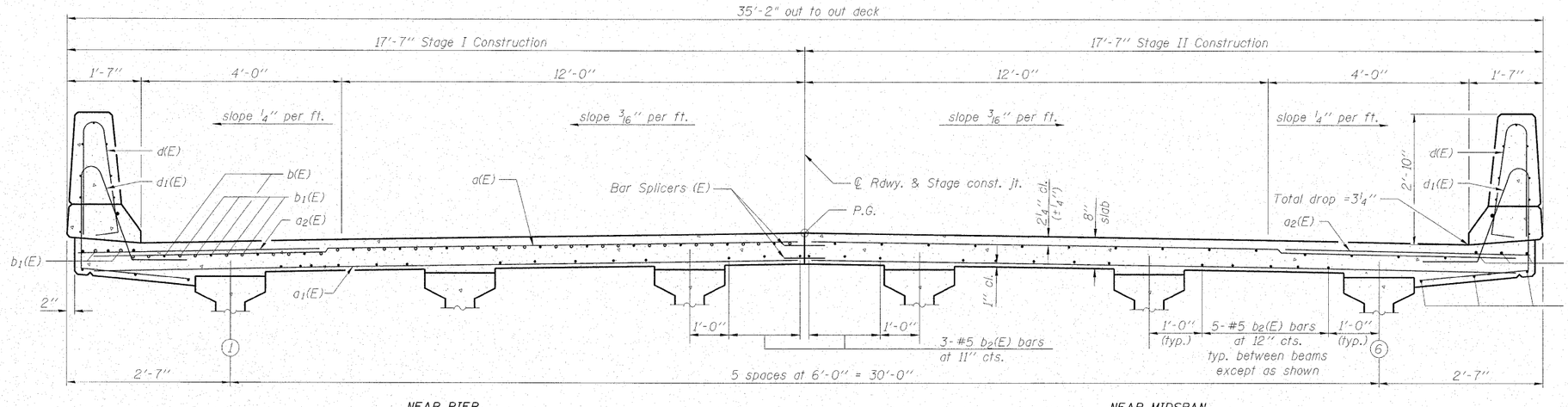
Contract # 74232



PARTIAL PLAN

Notes:
See Sheet 11 of 23 for superstructure details and Bill of Material.
Bars indicated thus 20 x 3-#5 etc. indicates 20 lines of bars with 3 lengths per line.
See Sheet 11 of 23 for parapet reinforcement.
For Section A-A, see Sheet 13 of 23.

MINIMUM BAR LAP
#5 bar = 1'-8"



NEAR PIER

NEAR MIDSPAN

CROSS SECTION
(Looking South)

MAURER & STUTZ, INC.
ENGINEERS SURVEYORS

DESIGNED	- BAS
CHECKED	- KEF
DRAWN	- LAD
CHECKED	- RJA

SUPERSTRUCTURE
IL ROUTE 128 OVER WOLF CREEK
F.A.S. RTE. 2801 - SECTION (102B)B-1
EFFINGHAM COUNTY
STATION 974+76.00
STRUCTURE NO. 025-0105

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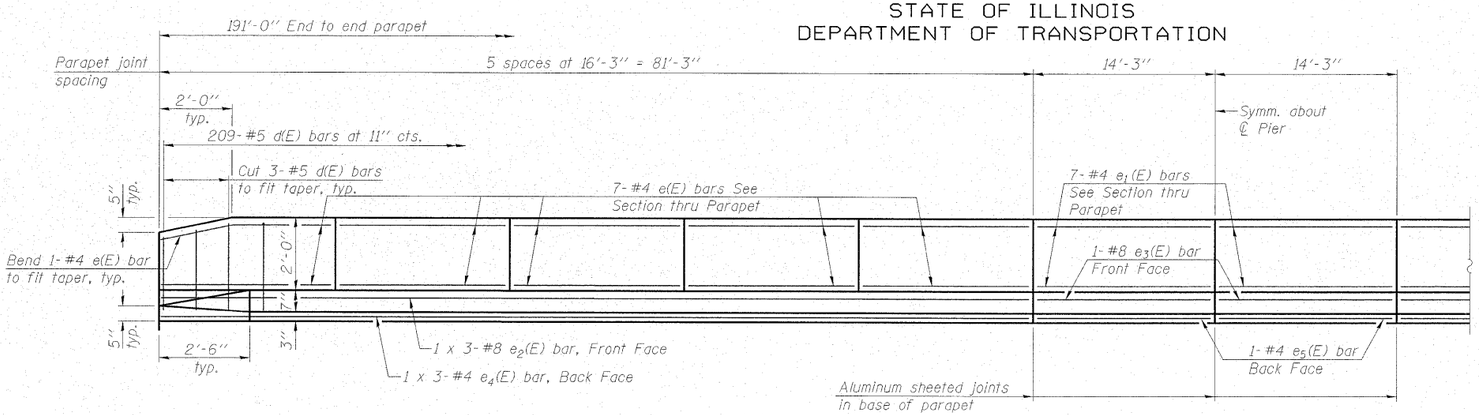
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAS 2801 IL 128	(102B) B-1	EFFINGHAM	51	33
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT-	

SHEET NO. 11
23 SHEETS

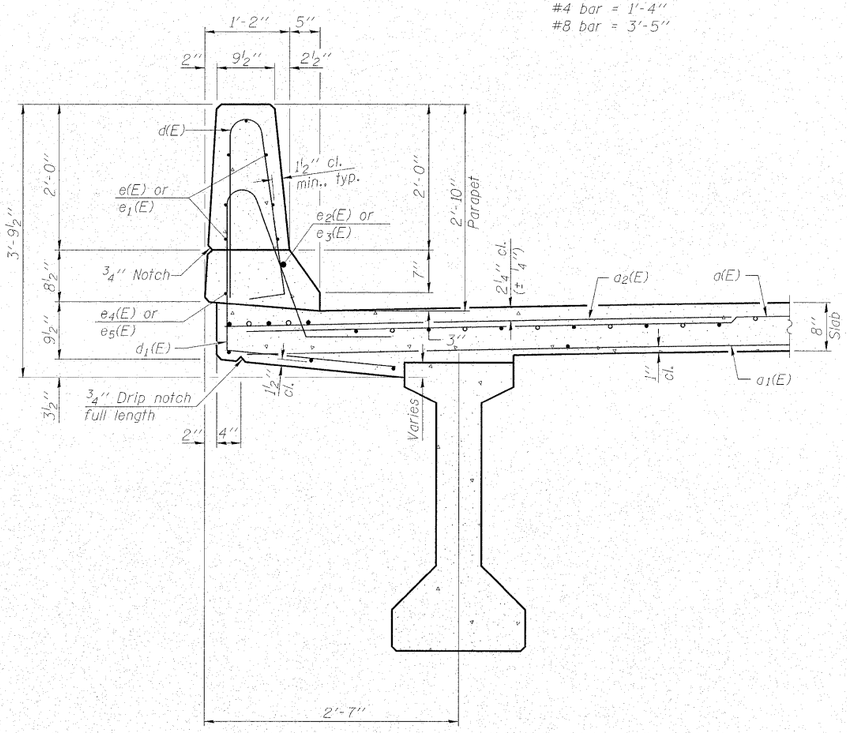
Contract # 74232



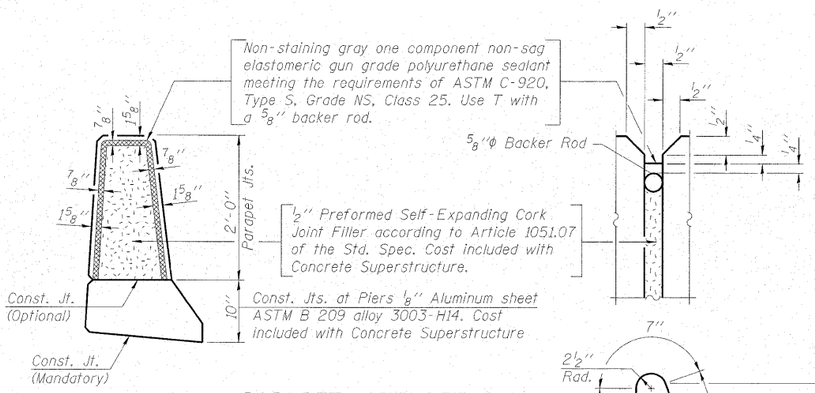
INSIDE ELEVATION OF PARAPET

MINIMUM BAR LAP

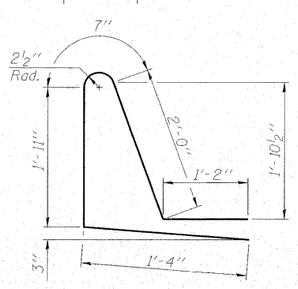
(Parapet)
#4 bar = 1'-4"
#8 bar = 3'-5"



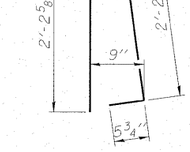
SECTION THRU PARAPET



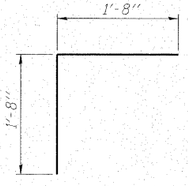
PARAPET JOINT DETAILS



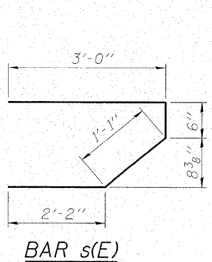
BAR d1(E)



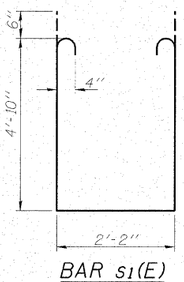
BAR d(E)



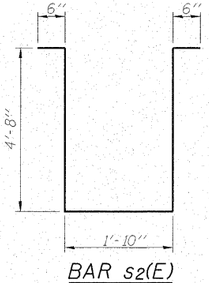
BAR v(E)



BAR s(E)



BAR s1(E)



BAR s2(E)

SUPERSTRUCTURE BILL OF MATERIAL

Bar	No.	Size	Length	Shape
d(E)	574	#5	17'-1"	
d1(E)	460	#5	16'-9"	
d2(E)	574	#6	6'-0"	
b(E)	350	#5	28'-8"	
b1(E)	92	#6	46'-0"	
b2(E)	256	#5	25'-4"	
d(E)	418	#5	5'-7"	
d1(E)	418	#5	7'-0"	
e(E)	140	#4	15'-11"	
e1(E)	28	#4	13'-11"	
e2(E)	12	#8	29'-4"	
e3(E)	4	#8	13'-11"	
e4(E)	12	#4	27'-11"	
e5(E)	4	#4	13'-11"	
m(E)	8	#6	16'-4"	
m1(E)	12	#6	17'-3"	
m2(E)	24	#6	7'-8"	
m3(E)	16	#6	3'-10"	
m4(E)	4	#6	1'-4"	
m5(E)	8	#6	1'-10"	
m6(E)	6	#8	5'-10"	
m7(E)	16	#4	5'-2"	
m8(E)	8	#4	2'-5"	
s(E)	72	#5	6'-9"	
s1(E)	64	#4	12'-10"	
s2(E)	26	#4	12'-2"	
v(E)	68	#5	3'-4"	
Reinforcement Bars, Epoxy Coated			Pound	58180
Concrete Superstructure			Cu. Yd.	258.6

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

MAURER ▲ STUTZ, INC.
ENGINEERS SURVEYORS

DESIGNED	- BAS
CHECKED	- KEF
DRAWN	- LAD
CHECKED	- RJA

SUPERSTRUCTURE DETAILS
IL ROUTE 128 OVER WOLF CREEK
F.A.S. RTE. 2801 - SECTION (102B)B-1
EFFINGHAM COUNTY
STATION 974+76.00
STRUCTURE NO. 025-0105

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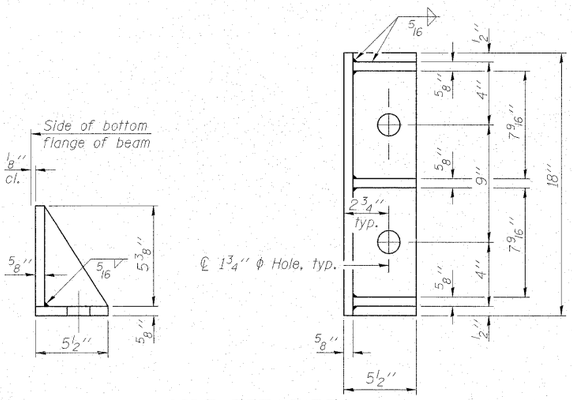
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAS 2801 IL 128	(102B) B-1	EFFINGHAM	51	34
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-		

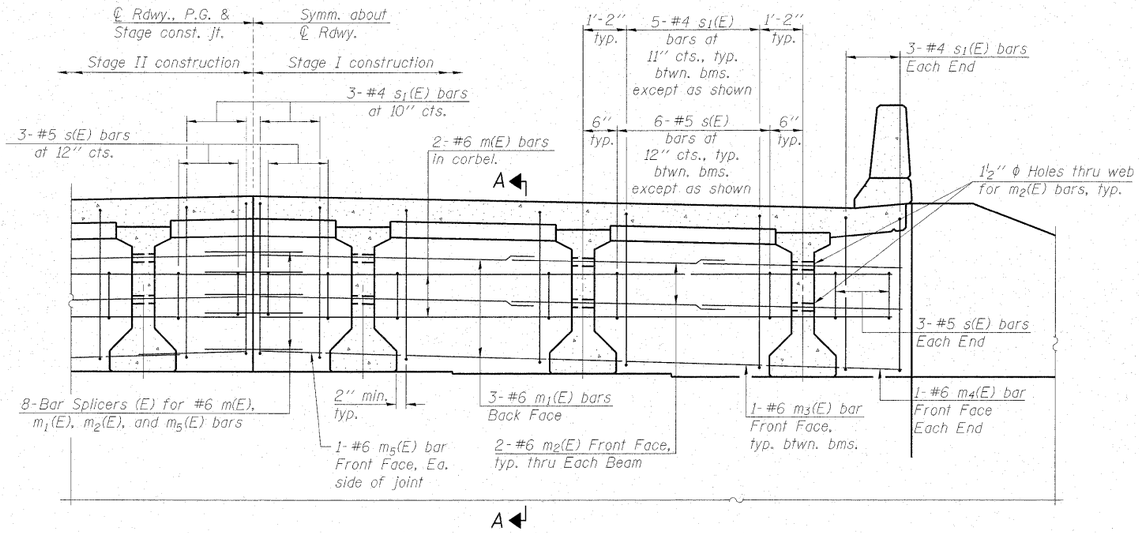
SHEET NO. 12
23 SHEETS

Contract # 74232



SIDE RETAINER

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

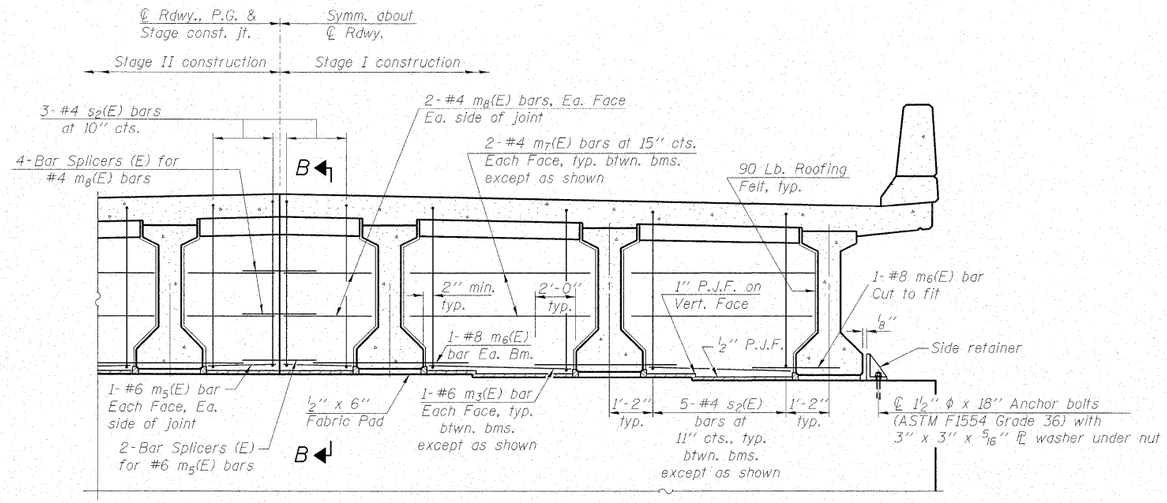


DIAPHRAGM ELEVATION AT ABUTMENT

(Looking North)
North abut. shown, South abut. similar

MIN. BAR LAP

#6 bar = 2'-9"



DIAPHRAGM ELEVATION AT PIER

(Looking North)

Notes:

Reinforcement bars in diaphragm are billed with superstructure on sheet 11 of 23.

Concrete in diaphragm is included with Concrete Superstructure on sheet 11 of 23.

For details of bars s(E), s_1(E) and s_2(E) see sheet 11 of 23.

The s(E), s_1(E) and s_2(E) bars shall be placed parallel to the beams. Spacing for these bars shall be at right angles to the beams.

See sheet 13 of 23 for Sections A-A and B-B.

Cost of 90 Lb. roofing felt is included with Concrete Superstructure.

The side retainer shall be galvanized after shop fabrication according to AASHTO M 111.

Anchor bolt assemblies shall be galvanized according to Article 1006.09 of the Standard Specifications.

Anchor bolts shall be ASTM F1554 all-thread (or an Engineer-approved alternate material) of the grade(s) and diameter(s) specified. ASTM A307 Grade C anchor bolts may be used in lieu of ASTM F1554 Grade 36 (Fy=36ksi). The corresponding specified grade of AASHTO M314 anchor bolts may be used in lieu of ASTM F1554.

Anchor bolts for side retainers may be either cast in place or installed in holes drilled after the supporting member is in place and prior to pouring the deck.

Drilled and set anchor bolts shall be installed according to Article 521.06 of the Standard Specifications.

Cost of side retainer and anchor bolts shall be included with Concrete Structures.

MAURER & STUTZ, INC. ENGINEERS SURVEYORS

DESIGNED	- BAS
CHECKED	- KEF
DRAWN	- LAD
CHECKED	- RJA

DIAPHRAGM DETAILS

IL ROUTE 128 OVER WOLF CREEK
F.A.S. RTE. 2801 - SECTION (102B)B-1
EFFINGHAM COUNTY
STATION 974+76.00
STRUCTURE NO. 025-0105

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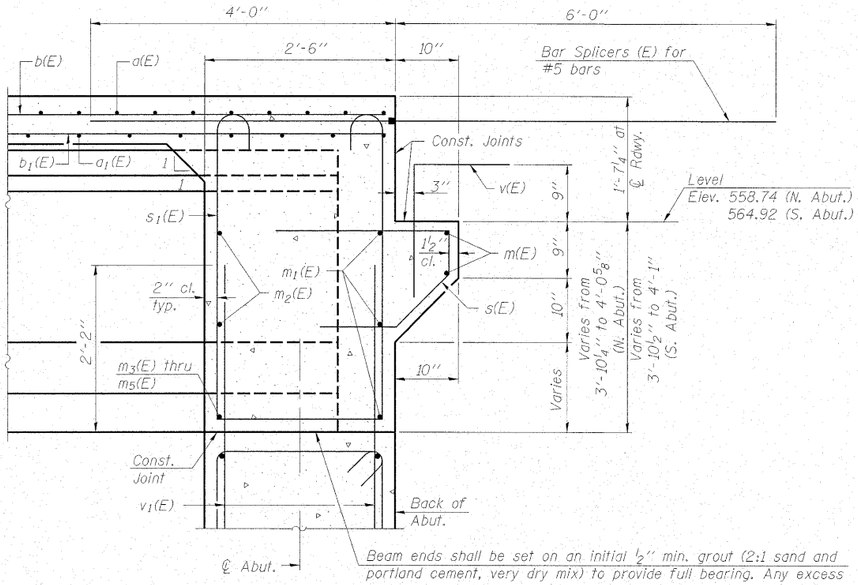
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

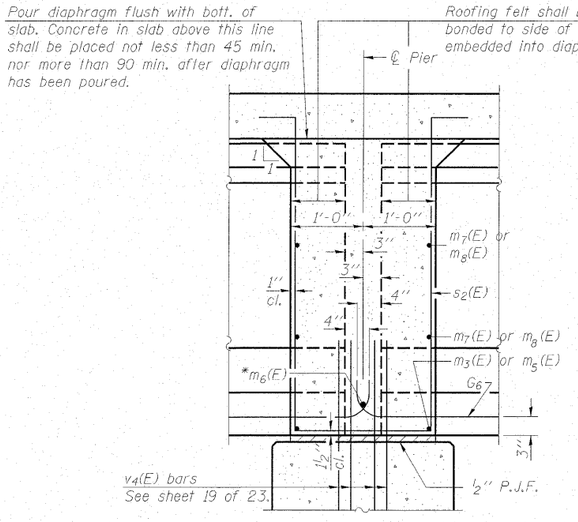
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAS 2801 IL 128	(102B) B-1	EFFINGHAM	51	35
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT-	

SHEET NO. 13
23 SHEETS

Contract # 74232

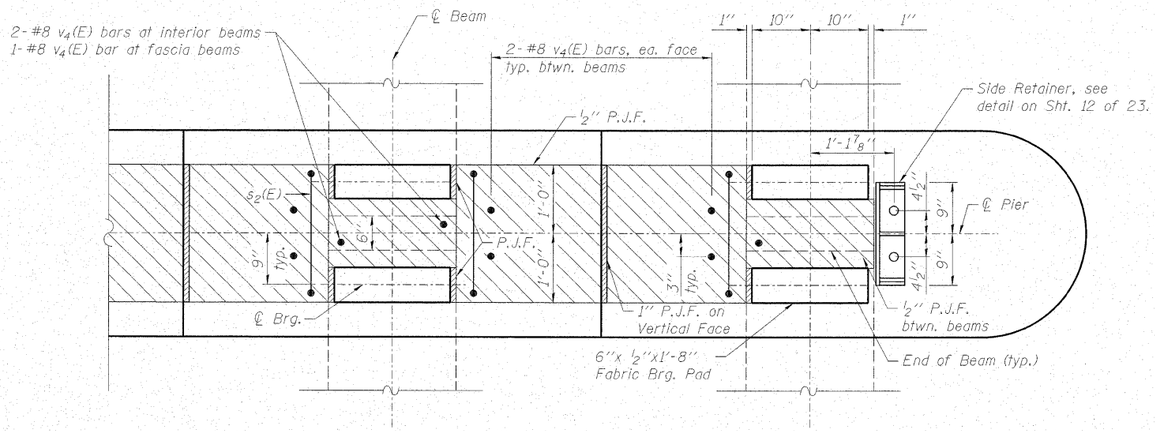


SECTION A-A



SECTION B-B

* Tightly fasten the #8 bars together with No. 9 wire ties.



PLAN AT PIER
(Showing bearing pad and PJF details)

Note:
See sheet 12 of 23 for location of Sections A-A and B-B.

MAURER & STUTZ, INC.
ENGINEERS SURVEYORS

DESIGNED	- BAS
CHECKED	- KEF
DRAWN	- SGM
CHECKED	- RJA

DIAPHRAGM DETAILS
IL ROUTE 128 OVER WOLF CREEK
F.A.S. RTE. 2801 - SECTION (102B)B-1
EFFINGHAM COUNTY
STATION 974+76.00
STRUCTURE NO. 025-0105

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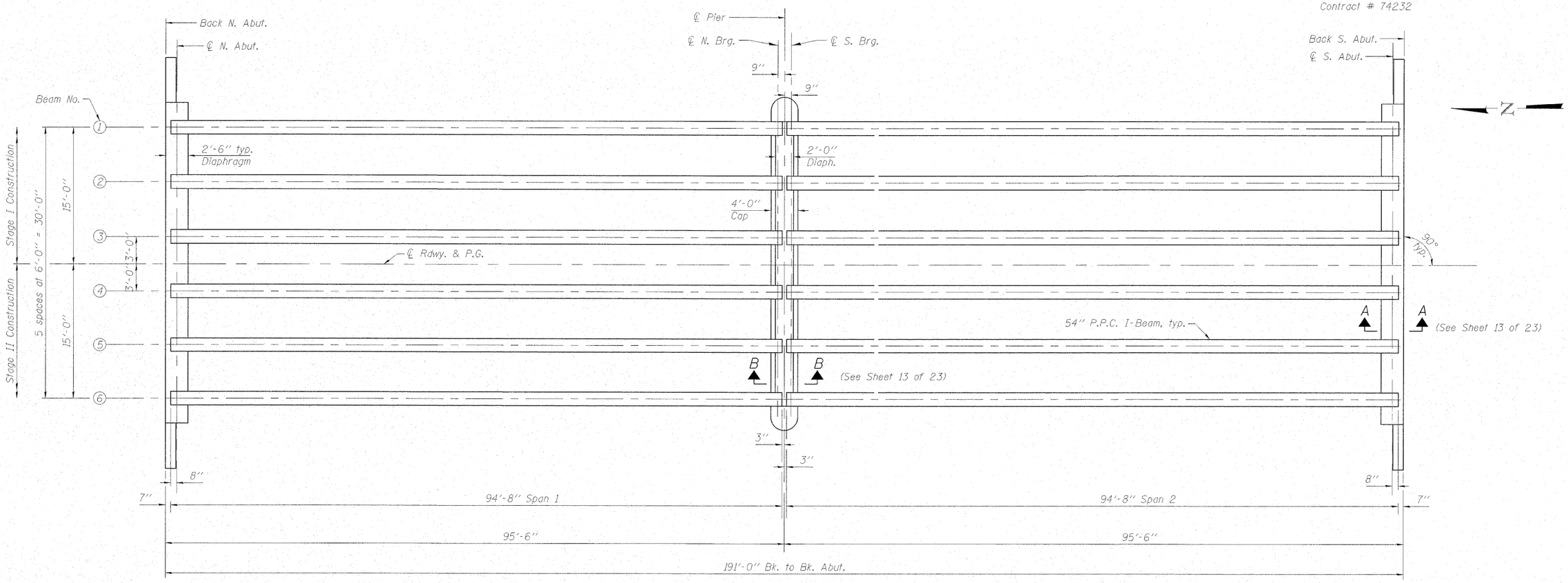
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAS 2801 IL 128	(102B) B-1	EFFINGHAM	51	36
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT-	

SHEET NO. 14
23 SHEETS

Contract # 74232



FRAMING PLAN

INTERIOR BEAM MOMENT TABLE			
		0.4 Sp. 1 0.6 Sp. 2	Pier
I	(in^4)	213715	213715
I'	(in^4)	481040	———
S_b	(in^3)	8559	8559
S_b'	(in^3)	12537	———
S_t	(in^3)	7362	7362
S_t'	(in^3)	30777	———
DC1	(k/')	1.245	1.245
M_{DC1}	('k)	1327.1	———
DC2	(k/')	0.150	0.150
M_{DC2}	('k)	93.3	166.6
DW	(k/')	0.267	0.267
M_{DW}	('k)	166.0	296.5
M_{L+Imp}	('k)	1148.8	1185.0

I: Non-composite moment of inertia of beam section ($in.^4$).
I': Composite moment of inertia of beam section ($in.^4$).
S_b: Non-composite section modulus for the bottom fiber of the prestressed beam ($in.^3$).
S_b': Composite section modulus for the bottom fiber of the prestressed beam ($in.^3$).
S_t: Non-composite section modulus for the top fiber of the prestressed beam ($in.^3$).
S_t': Composite section modulus for the top fiber of the prestressed beam ($in.^3$).
DC1: Un-factored non-composite dead load (kips/ft.).
M_{DC1}: Un-factored moment due to non-composite dead load (kip-ft.).
DC2: Un-factored long-term composite (superimposed excluding future wearing surface) dead load (kips/ft.).
M_{DC2}: Un-factored moment due to long-term composite (superimposed excluding future wearing surface) dead load (kip-ft.).
DW: Un-factored long-term composite (superimposed future wearing surface only) dead load (kips/ft.).
M_{DW}: Un-factored moment due to long-term composite (superimposed future wearing surface only) dead load (kip-ft).
M_{L+Imp}: Un-factored live load moment plus dynamic load allowance (impact) (kip-ft.).

INTERIOR BEAM REACTION TABLE HL93 Loading					
			Pier		
		N. Abut.	Span 1	Span 2	S. Abut.
R_{DC1}	(k)	58.7	58.7	58.7	58.7
* R_{DC2}	(k)	5.3	8.8	8.8	5.3
* R_{DW}	(k)	9.4	15.7	15.7	9.4
* R_{L+Imp}	(k)	74.0	67.3	67.3	74.0
R_{Total}	(k)	147.4	150.5	150.5	147.4

* The total R_{DC2}, R_{DW} and R_{L+Imp} are assumed to be distributed evenly to each bearing line at a pier regardless of the span ratios. The bearing design at a pier is based on the maximum reactions of either span.

MAURER & STUTZ, INC.
ENGINEERS SURVEYORS

DESIGNED	- BAS
CHECKED	- KEF
DRAWN	- SGM
CHECKED	- RJA

FRAMING PLAN
IL ROUTE 128 OVER WOLF CREEK
F.A.S. RTE. 2801 - SECTION (102B)B-1
EFFINGHAM COUNTY
STATION 974+76.00
STRUCTURE NO. 025-0105

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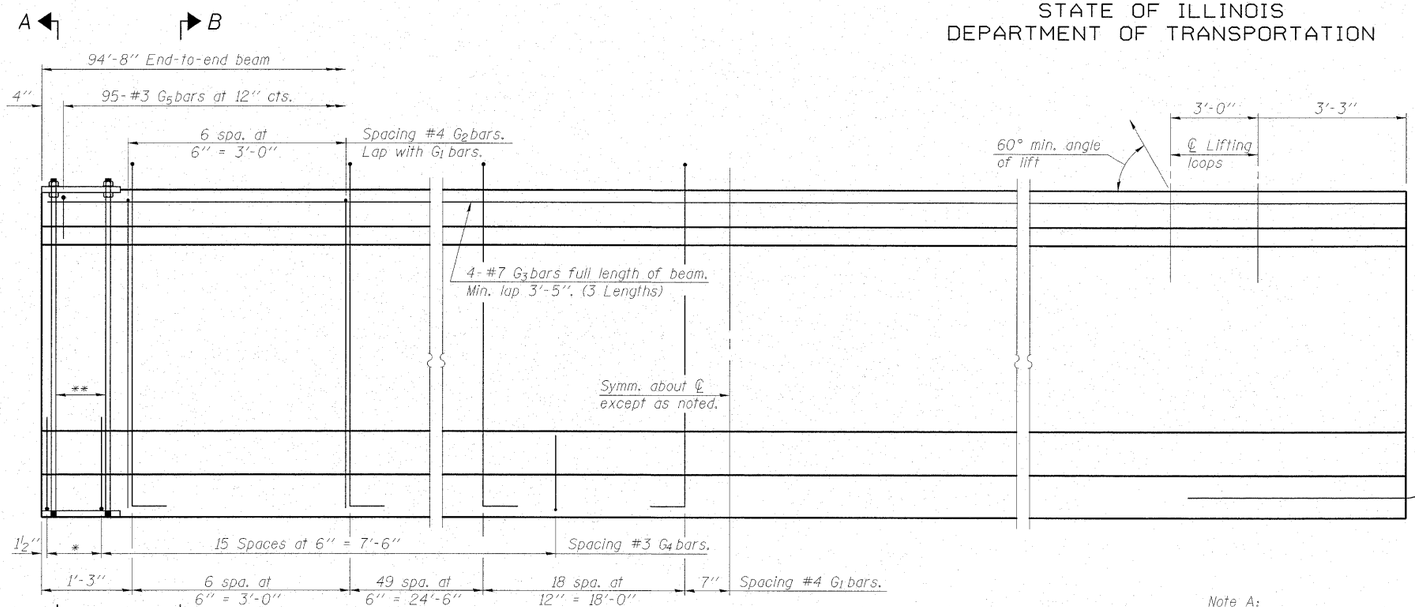
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAS 2801 IL 128	(102B) B-1	EFFINGHAM	51	37
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-		

SHEET NO. 15
23 SHEETS

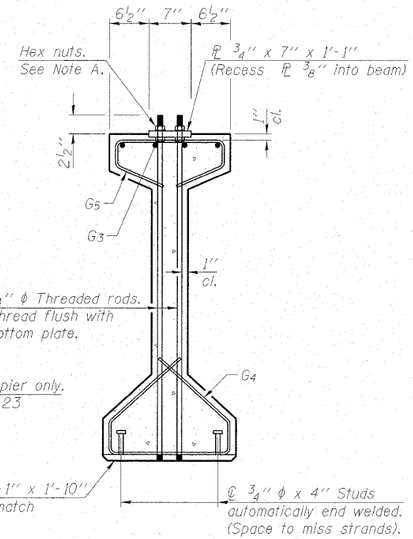
Contract # 74232



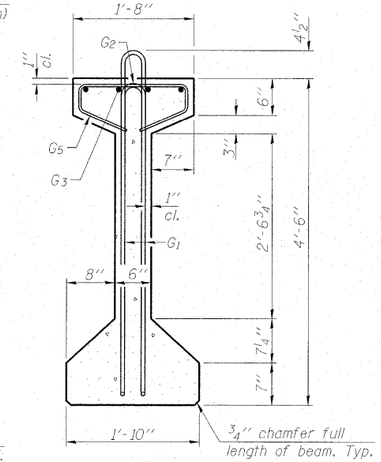
ELEVATION OF BEAM
(Showing reinforcement & dimensions)

*3 spaces at 3" = 9".
**4-¾" ϕ threaded dowel rods at 3" cts., Each Face.

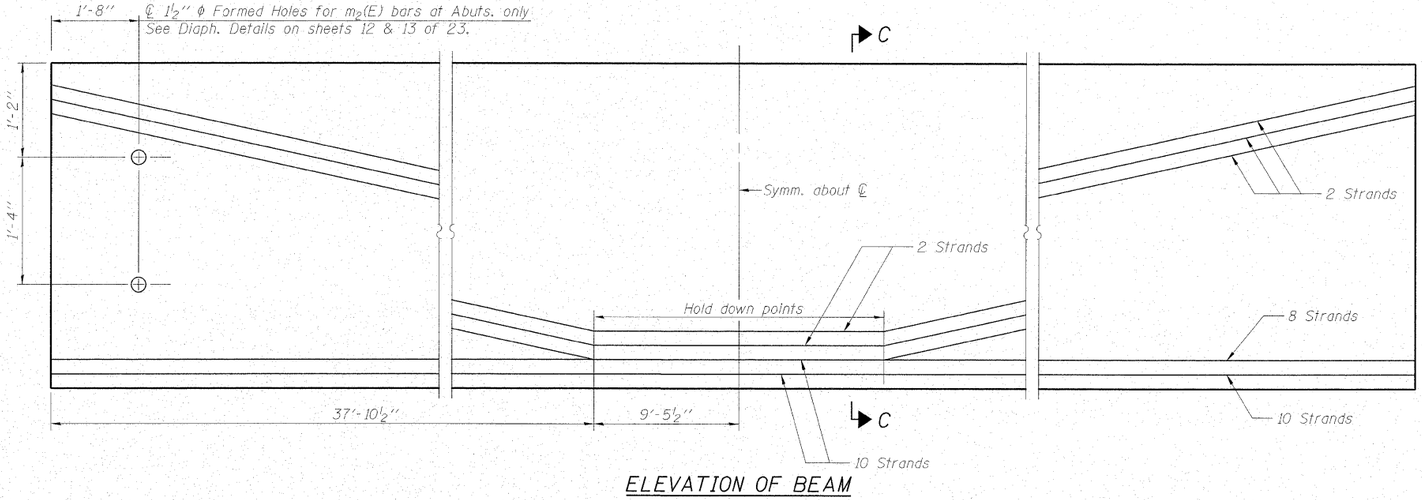
Note A:
Hex nuts (top and bottom) with lock washers (top). Only tighten sufficiently to compress lock washers.



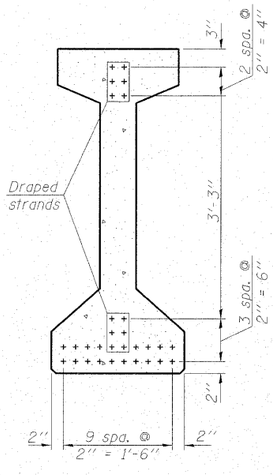
SECTION A-A



SECTION B-B



ELEVATION OF BEAM
(Showing prestressing steel)



SECTION C-C

***BAR LIST
ONE BEAM ONLY

Bar	No.	Size	Length	Shape
G_1	148	#4	10'-5"	
G_2	14	#4	8'-8"	
G_3	12	#7	33'-10"	
G_4	38	#3	4'-11"	
G_5	95	#3	3'-5"	
G_6	2	#8	3'-9"	

***For information only

Notes:
See sheet 16 of 23 for additional details and Bill of Material.
Required release strength, f'ci, shall be 6000 psi.

MAURER & STUTZ, INC. ENGINEERS SURVEYORS

DESIGNED	- BAS
CHECKED	- KEF
DRAWN	- SGM
CHECKED	- RJA

54" PPC I-BEAM
IL ROUTE 128 OVER WOLF CREEK
F.A.S. RTE. 2801 - SECTION (102B)B-1
EFFINGHAM COUNTY
STATION 974+76.00
STRUCTURE NO. 025-0105

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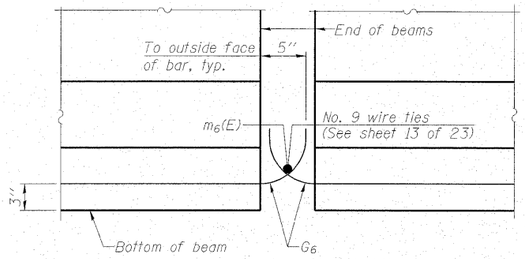
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

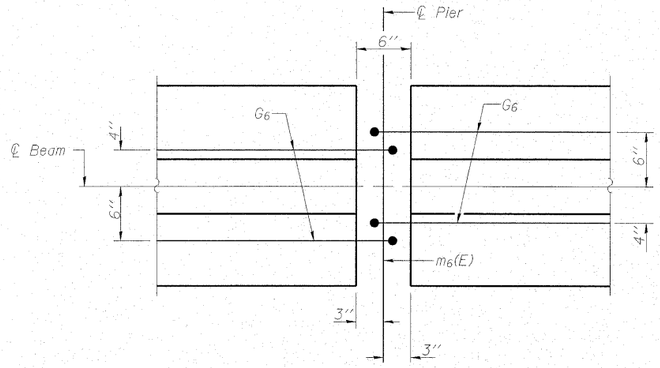
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAS 2801 IL 128	(102B) B-1	EFFINGHAM	51	38
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT-	

SHEET NO. 16
23 SHEETS

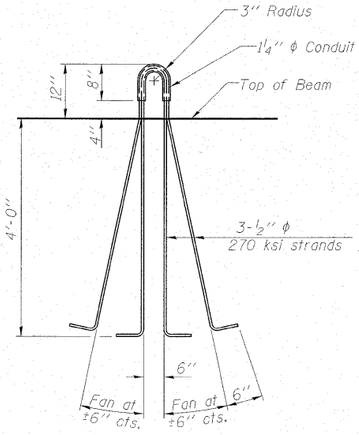
Contract # 74232



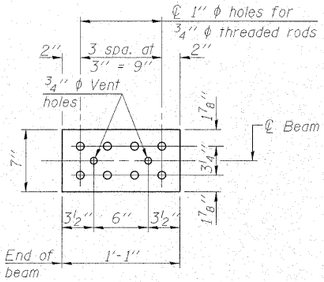
ELEVATION OF BEAM AT PIER



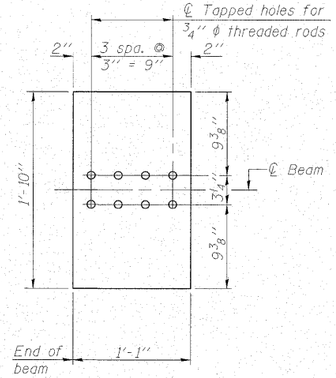
PLAN OF BEAM AT PIER



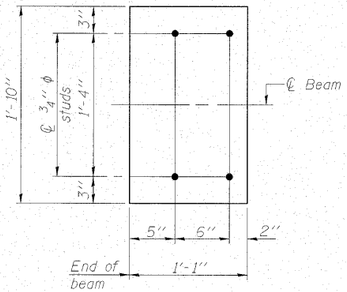
LIFTING LOOP DETAIL



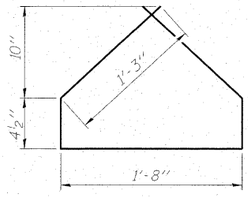
TOP PLATE



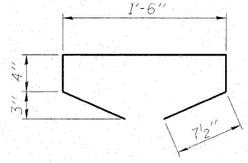
BOTTOM PLATE
(Showing threaded rods)



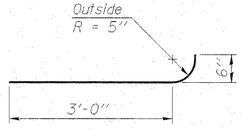
BOTTOM PLATE
(Showing studs)



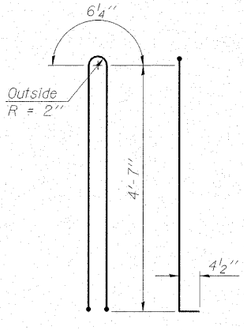
BAR G4



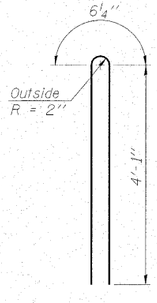
BAR G5



BAR G6



BAR G1



BAR G2

NOTES

Inserts for ¾" ϕ threaded dowel rods, when specified, are to be two strut, coil type for interior beams and single coil, flared loop type for exterior beams.

Prestressing steel shall be uncoated high strength, low relaxation 7-wire strand, Grade 270.

The nominal diameter shall be ½" and the nominal cross-sectional area shall be 0.153 sq. in.

Non-prestressing steel shall conform to ASTM A 706 (IL MOD), Grade 60.

A minimum 2½" ϕ lifting pin shall be used to engage the lifting loops during handling.

Cut G_6 bars when necessary to maintain 1½" clearance.

The top and bottom plates shall be AASHTO M270 Grade 50.

The bottom plates and studs shall be galvanized according to AASHTO M111.

Threaded rods shall be ASTM F 1554 Grade 55.

BILL OF MATERIAL

Item	Unit	Total
Furnishing and Erecting Precast Prestressed Concrete I-Beams, 54"	Ft.	1136

MAURER ▲ STUTZ, INC.
ENGINEERS SURVEYORS

DESIGNED	- BAS
CHECKED	- KEF
DRAWN	- SGM
CHECKED	- RJA

54" PPC I-BEAM DETAILS
IL ROUTE 128 OVER WOLF CREEK
F.A.S. RTE. 2801 - SECTION (102B)B-1
EFFINGHAM COUNTY
STATION 974+76.00
STRUCTURE NO. 025-0105

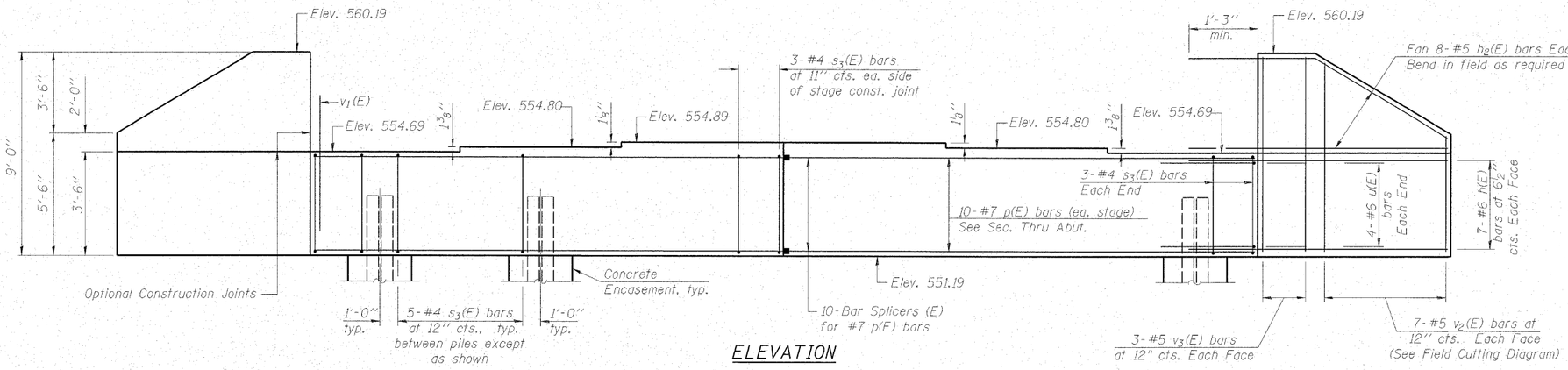
Notes: Pour steps monolithically with cap.

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

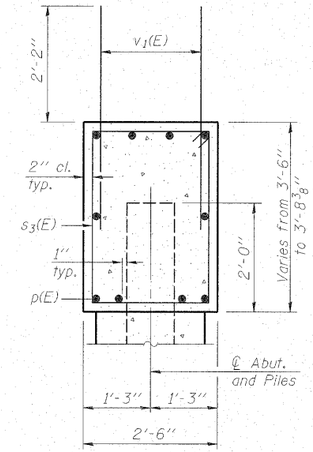
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAS 2801 IL 128	(102B) B-1	EFFINGHAM	51	39
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT-	

SHEET NO. 17
23 SHEETS

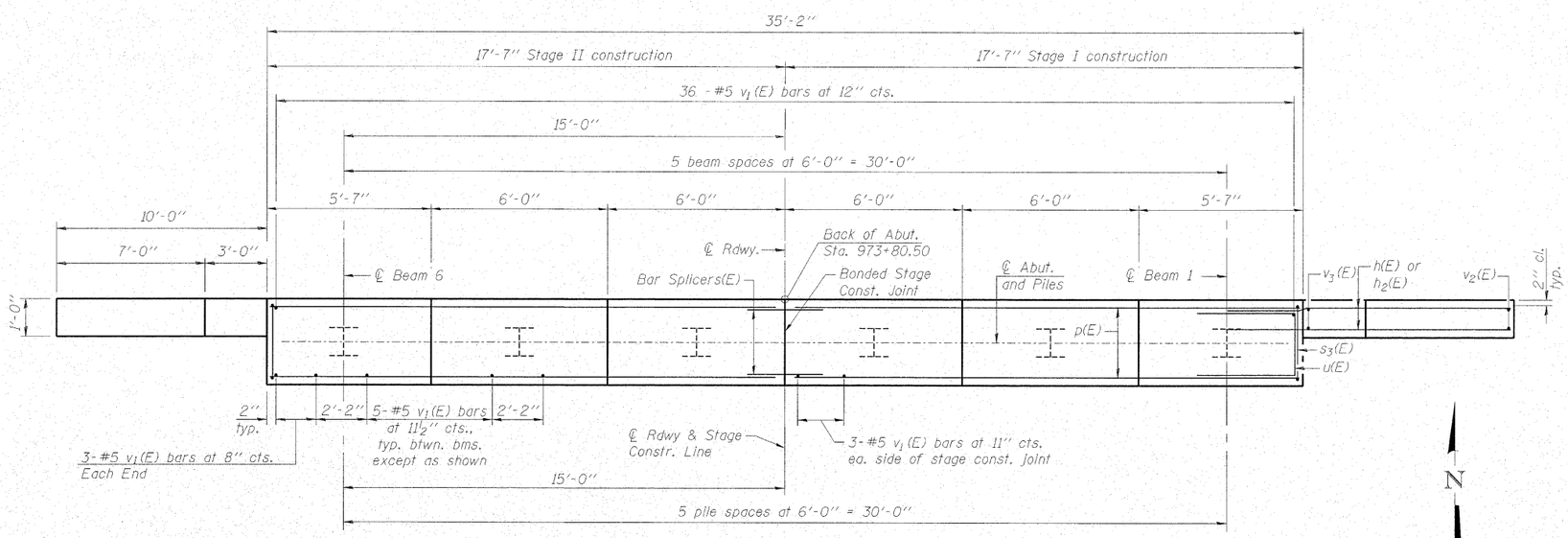
Contract # 74232



ELEVATION



SEC. THRU ABUT.



PLAN

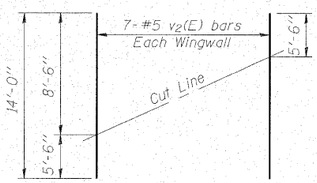
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h(E)	28	#6	12'-4"	
h2(E)	32	#5	11'-11"	
p(E)	20	#7	17'-3"	
s3(E)	32	#4	11'-5"	
u(E)	8	#6	7'-9"	
v1(E)	68	#5	4'-4"	
v2(E)	14	#5	14'-0"	
v3(E)	12	#5	8'-9"	
Concrete Structures		Cu. Yd.	17.5	
Concrete Encasement		Cu. Yd.	2.1	
Reinforcement Bars, Epoxy Coated		Pound	2580	
Furnishing Steel Piles HP12x63		Foot	220	
Driving Piles		Foot	220	
Test Pile Steel HP12x63		Each	1	

For details of Bar Splicers, see sheet 21 of 23.
For details of piles and Concrete Encasement, see sheet 20 of 23.

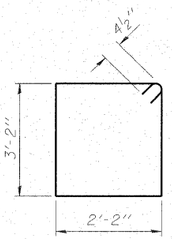
PILE DATA

Type: Steel HP12x63
Nominal Required Bearing: 497 kips
Factored Resistance Available: 248 kips
Est. Length: 44 feet
No. Production Piles: 5
No. Test Piles: 1

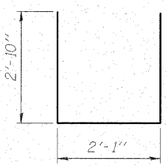


FIELD CUTTING DIAGRAM

Order v2(E) full length. Cut as shown and use remainder of bars in opposite face.



BAR s3(E)



BAR u(E)

MAURER & STUTZ, INC. ENGINEERS SURVEYORS

DESIGNED	- BAS
CHECKED	- KEF
DRAWN	- LAD
CHECKED	- RJA

NORTH ABUTMENT
IL ROUTE 128 OVER WOLF CREEK
F.A.S. RTE. 2801 - SECTION (102B)B-1
EFFINGHAM COUNTY
STATION 974+76.00
STRUCTURE NO. 025-0105

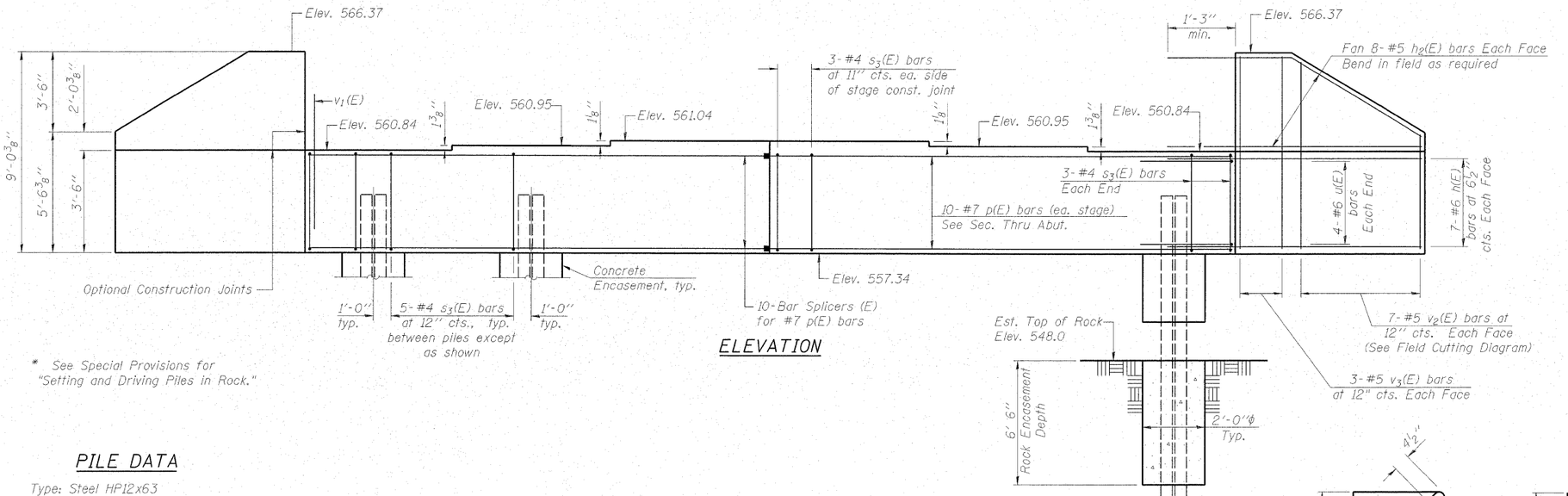
Notes: Pour steps monolithically with cap.

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAS 2801 IL 128	(102B) B-1	EFFINGHAM	51	40
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT-	

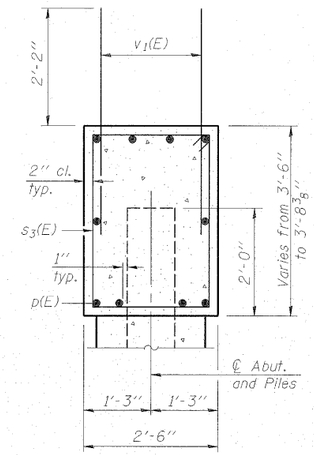
SHEET NO. 18
23 SHEETS

Contract # 74232



ELEVATION

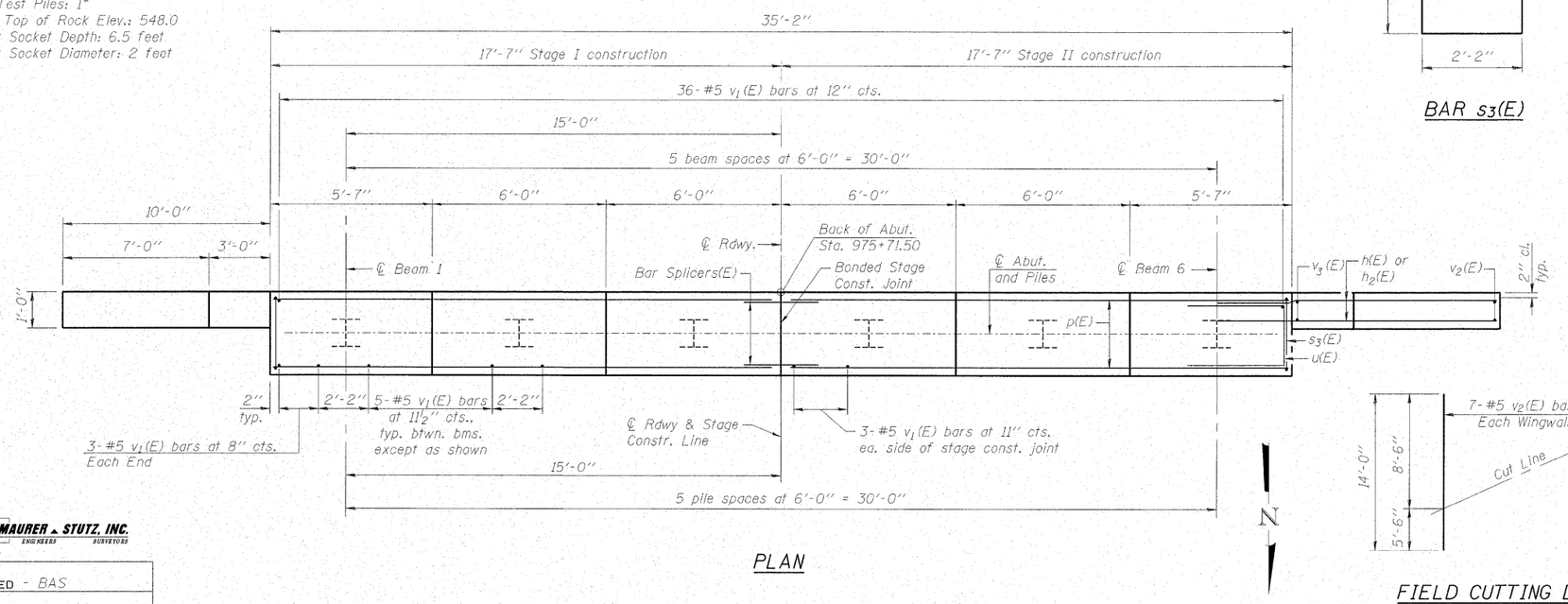
* See Special Provisions for "Setting and Driving Piles in Rock."



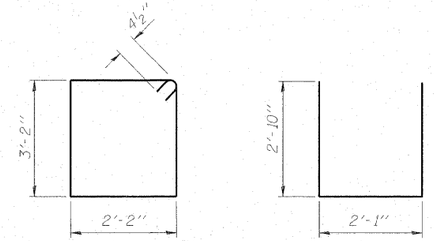
SEC. THRU ABUT.

PILE DATA

Type: Steel HP12x63
Nominal Required Bearing: 497 kips*
Factored Resistance Available: 248 kips
Est. Length: 28 feet
No. Production Piles: 5
No. Test Piles: 1*
Est. Top of Rock Elev.: 548.0
Rock Socket Depth: 6.5 feet
Rock Socket Diameter: 2 feet



PLAN



BAR s3(E) BAR u(E)

FIELD CUTTING DIAGRAM

Order $v_2(E)$ full length. Cut as shown and use remainder of bars in opposite face.

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h(E)	28	#6	12'-4"	
$h_2(E)$	32	#5	11'-11"	
p(E)	20	#7	17'-3"	
$s_3(E)$	32	#4	11'-5"	
u(E)	8	#6	7'-9"	
$v_1(E)$	68	#5	4'-4"	
$v_2(E)$	14	#5	14'-0"	
$v_3(E)$	12	#5	8'-9"	
Structure Excavation		Cu. Yd.	131	
Concrete Structures		Cu. Yd.	17.5	
Concrete Encasement		Cu. Yd.	2.1	
Reinforcement Bars, Epoxy Coated		Pound	2580	
Furnishing Steel Piles HP12x63		Foot	140	
Setting and Driving Piles in Rock		Each	5	
Setting and Driving Test Piles in Rock HP12x63		Each	1	

For details of Bar Splicers, see sheet 21 of 23.
For details of piles and Concrete Encasement, see sheet 20 of 23.

MAURER & STUTZ, INC. ENGINEERS SURVEYORS

DESIGNED	- BAS
CHECKED	- KEF
DRAWN	- LAD
CHECKED	- RJA

SOUTH ABUTMENT
IL ROUTE 128 OVER WOLF CREEK
F.A.S. RTE. 2801 - SECTION (102B)B-1
EFFINGHAM COUNTY
STATION 974+76.00
STRUCTURE NO. 025-0105

Notes:

Pour steps monolithically with cap.
For details of piles, see sheet 20 of 23.
For details of Bar Splicers, see sheet 21 of 23.
Space reinforcement in cap to miss side retainer anchor bolts, see sheet 13 of 23.

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAS 2801 IL 128	(102B) B-1	EFFINGHAM	51	41
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-		

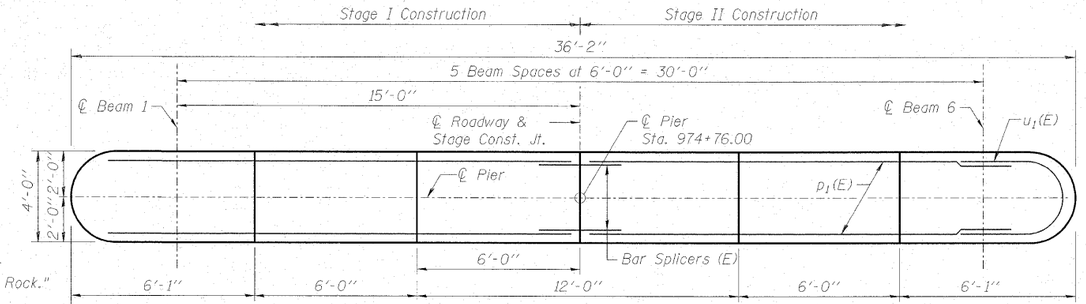
SHEET NO. 19
23 SHEETS

Contract # 74232

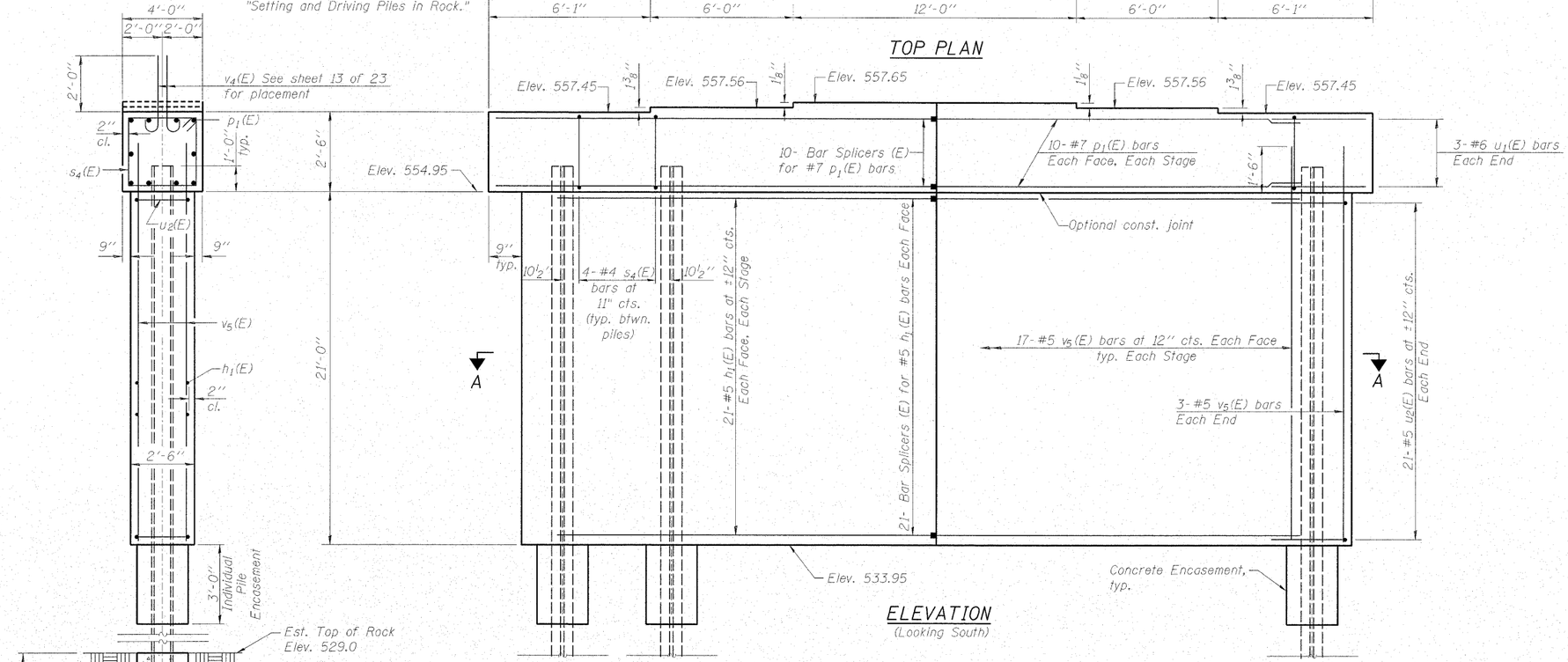
PILE DATA

Type: Steel HP14x89
Nominal Required Bearing: 705 kips*
Factored Resistance Available: 352 kips
Est. Length: 44 feet
No. Production Piles: 7
No. Test Piles: 1*
Est. Top of Rock Elev.: 529.0
Rock Socket Depth: 6.5 feet
Rock Socket Diameter: 2 feet

* See Special Provisions for "Setting and Driving Piles in Rock."

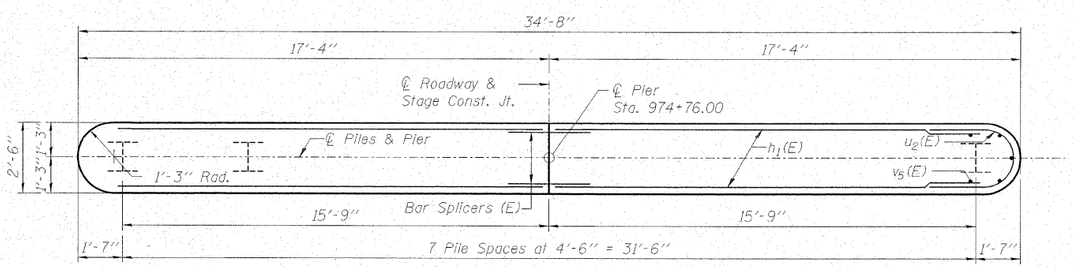


TOP PLAN

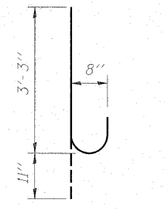


ELEVATION
(Looking South)

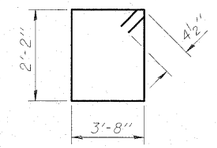
END VIEW



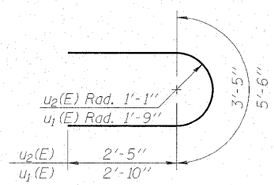
SECTION A-A



BAR v_4(E)



BAR s_4(E)



BARS u_1(E) & u_2(E)

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h_1(E)	84	#5	16'-0"	——
p_1(E)	20	#7	15'-11"	——
s_4(E)	28	#4	12'-5"	□
u_1(E)	6	#6	11'-2"	⊃
u_2(E)	42	#5	8'-3"	⊃
v_4(E)	30	#8	4'-2"	⊃
v_5(E)	74	#5	22'-4"	——
Structure Excavation		Cu. Yd.	38	
Concrete Structures		Cu. Yd.	80.0	
Concrete Encasement		Cu. Yd.	4.4	
Reinforcement Bars, Epoxy Coated		Pound	4800	
Furnishing Steel Piles, HP14x89		Foot	308	
Underwater Structure Excavation Protection, Location 1		Each	1	
Setting and Driving Piles in Rock		Each	7	
Setting and Driving Test Piles in Rock HP14x89		Each	1	

MAURER ▲ STUTZ, INC.
ENGINEERS SURVEYORS

DESIGNED	- BAS
CHECKED	- KEF
DRAWN	- SGM
CHECKED	- RJA

If a portion of the pier wall or concrete encasement is under water, reinforcement may be placed underwater into forms. Concrete shall be tremied according to Article 503.08 of the Standard Specifications to an elevation of 1'-0" above the water line at the time of construction.

PIER

IL ROUTE 128 OVER WOLF CREEK
F.A.S. RTE. 2801 - SECTION (102B)B-1
EFFINGHAM COUNTY
STATION 974+76.00
STRUCTURE NO. 025-0105

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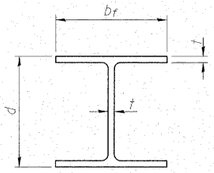
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAS 2801 IL 128	(102B) B-1	EFFINGHAM	51	42
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-		

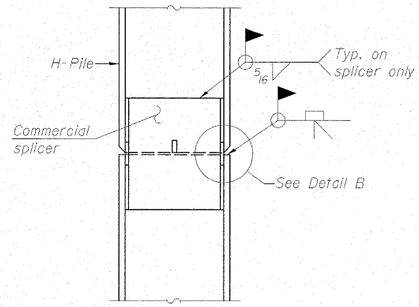
SHEET NO. 20
23 SHEETS

Contract # 74232

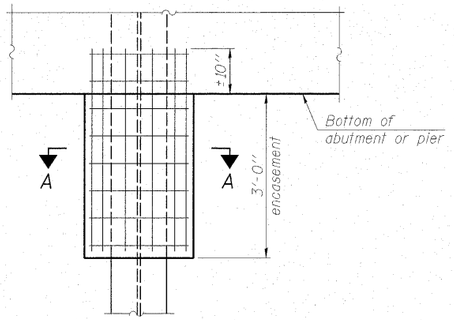


STEEL PILE TABLE

Designation	Depth d	Flange width b_f	Web and Flange thickness t	Encasement diameter A
HP 14x117	14 1/4"	14 7/8"	13/16"	30"
x102	14"	14 3/4"	11/16"	30"
x89	13 7/8"	14 3/4"	5/8"	30"
x73	13 5/8"	14 5/8"	1/2"	30"
HP 12x84	12 1/4"	12 1/4"	11/16"	24"
x74	12 1/8"	12 1/4"	5/8"	24"
x63	12"	12 1/8"	1/2"	24"
x53	11 3/4"	12"	7/16"	24"
HP 10x57	10"	10 1/4"	9/16"	24"
x42	9 3/4"	10 1/8"	7/16"	24"
HP 8x36	8"	8 1/8"	7/16"	18"



ELEVATION



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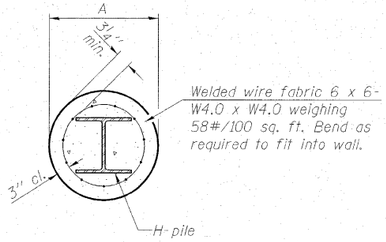
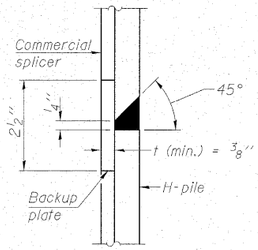


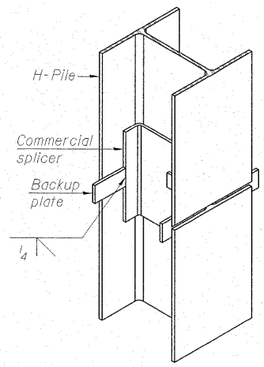
SECTION A-A

Note:
Forms for encasement may be omitted when soil conditions permit.

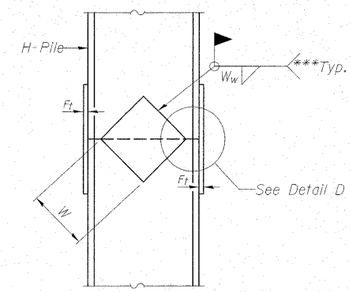
PILE ENCASEMENT



DETAIL "B"



ISOMETRIC VIEW



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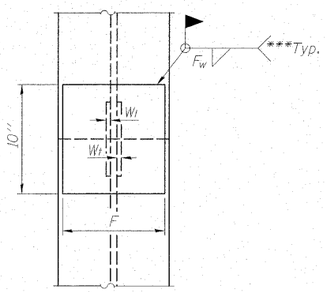
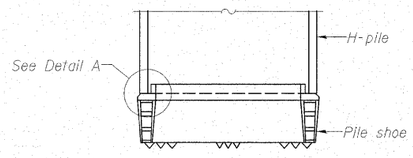


END VIEW

WELDED COMMERCIAL SPLICE



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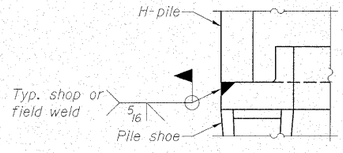
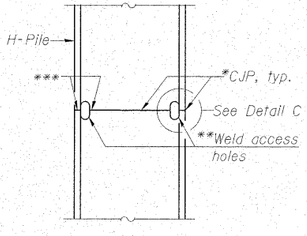


DETAIL A

H-PILE SHOE ATTACHMENT



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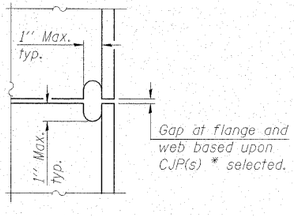
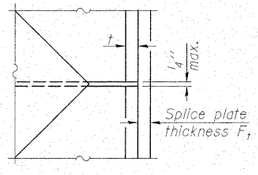


DETAIL C



DETAIL D

COMPLETE PENETRATION WELD SPLICE

Designation	F	F_t	F_w	W	W_t	W_w
HP 14x117	12 1/2"	1"	7/8"	7 3/4"	5/8"	1/2"
x102	12 1/2"	7/8"	3/4"	7 3/4"	5/8"	1/2"
x89	12 1/2"	3/4"	11/16"	7 3/4"	5/8"	1/2"
x73	12 1/2"	5/8"	9/16"	7 3/4"	5/8"	1/2"
HP 12x84	10"	7/8"	11/16"	6 1/2"	5/8"	1/2"
x74	10"	7/8"	11/16"	6 1/2"	5/8"	1/2"
x63	10"	5/8"	1/2"	6 1/2"	1/2"	3/8"
x53	10"	5/8"	1/2"	6 1/2"	1/2"	3/8"
HP 10x57	8"	3/4"	9/16"	5 1/4"	1/2"	3/8"
x42	8"	5/8"	9/16"	5 1/4"	1/2"	3/8"
HP 8x36	7"	5/8"	7/16"	4 1/4"	1/2"	3/8"

*Use joint conforming to Figure 3.4 in AWS D1.1, Structure Welding Code - Steel.

**Preparation per Fig. 5.2 in AWS D1.1, Structure Welding Code - Steel.

***Interrupt welds ¼" from end of each pile.

WELDED PLATE FIELD SPLICE

Note:
The steel H-piles shall be according to AASHTO M270 Grade 50.

MAURER & STUTZ, INC. ENGINEERS SURVEYORS

DESIGNED	- BAS
CHECKED	- KEF
DRAWN	- SGM
CHECKED	- RJA

F-HP 9-3-07

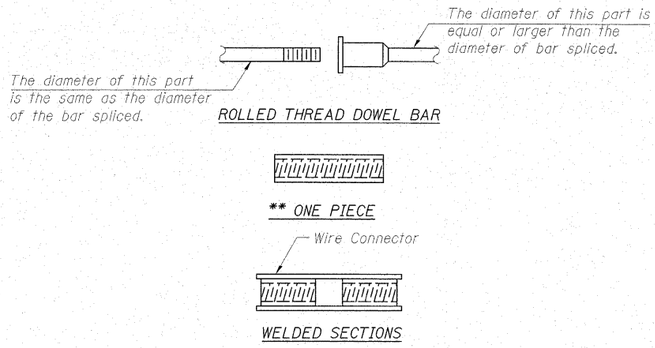
STEEL H-PILE DETAILS
IL ROUTE 128 OVER WOLF CREEK
F.A.S. RTE. 2801 - SECTION (102B)B-1
EFFINGHAM COUNTY
STATION 974+76.00
STRUCTURE NO. 025-0105

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAS 2801 IL 128	(102B) B-1	EFFINGHAM	51	43
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT-	

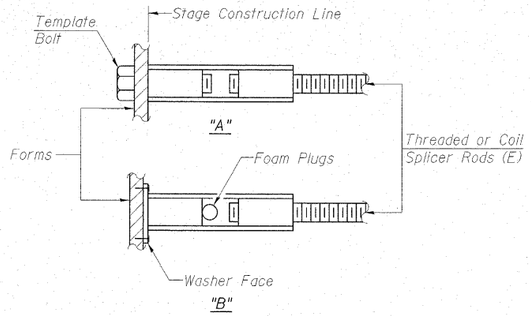
SHEET NO. 21
23 SHEETS

Contract # 74232



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.

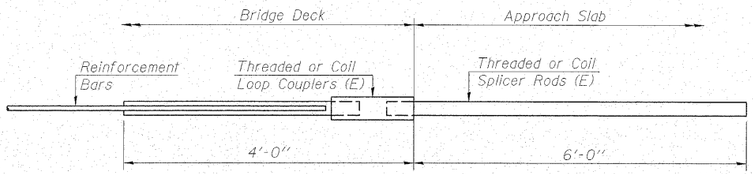
Other systems of similar design may be submitted to the Engineer for approval. Approval shall be based on certified test results from an approved testing laboratory that the proposed bar splicer assembly satisfies the following requirements:

① Minimum Capacity (Tension in kips) = $1.25 \times f_y \times A_t$

② Minimum *Pull-out Strength (Tension in kips) = $0.66 \times f_y \times A_t$

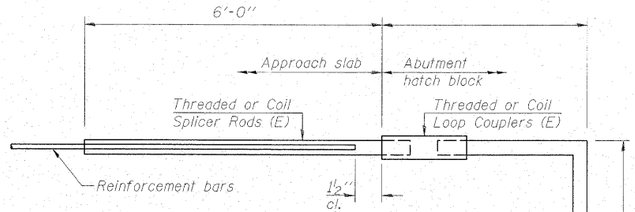
Where f_y = Yield strength of lapped reinforcement bars in ksi.
A_t = Tensile stress area of lapped reinforcement bars.
* = 28 day concrete

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	7.9
#5	2'-0"	23.0	12.3
#6	2'-7"	33.1	17.4
#7	3'-5"	45.1	23.8
#8	4'-6"	58.9	31.3
#9	5'-9"	75.0	39.6
#10	7'-3"	95.0	50.3
#11	9'-0"	117.4	61.8



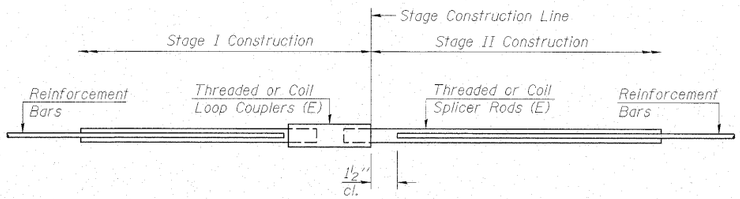
FOR INTEGRAL OR SEMI-INTEGRAL ABUTMENTS

Bar Splicer for #5 bar
Min. Capacity = 23.0 kips - tension
Min. Pull-out Strength = 12.3 kips - tension
No. Required = 64



FOR STUB ABUTMENTS

Bar Splicer for #5 bar
Min. Capacity = 23.0 kips - tension
Min. Pull-out Strength = 12.3 kips - tension
No. Required =



STANDARD

Bar Size	No. Assemblies Required	Location
#5	517	Deck
#6	16	Abut. Diaph.
#4	4	Pier Diaph.
#6	2	Pier Diaph.
#7	20	Abutments
#7	10	Pier
#5	42	Pier

MAURER ▲ STUTZ, INC.
ENGINEERS SURVEYORS

DESIGNED	- BAS
CHECKED	- KEF
DRAWN	- SGM
CHECKED	- RJA

BSD-1 11-1-06

BAR SPLICER ASSEMBLY DETAILS
IL ROUTE 128 OVER WOLF CREEK
F.A.S. RTE. 2801 - SECTION (102B)B-1
EFFINGHAM COUNTY
STATION 974+76.00
STRUCTURE NO. 025-0105

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAS 2801 IL 128	(102B) B-1	EFFINGHAM	51	44
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-		

SHEET NO. 22
23 SHEETS

Contract # 74232

Illinois Department of Transportation
Division of Highways
Illinois Department of Transportation

SOIL BORING LOG

Page 1 of 3

Date 6/12/07

ROUTE FAS 2801 (IL 128) DESCRIPTION Wolf Creek LOGGED BY E. Sandschafer

SECTION (102B)B-1 LOCATION NW 1/4, SEC. 7, TWP. 8 N, RNG. 4 E, 3 PM

COUNTY Effingham DRILLING METHOD Hollow stem auger & split spoon HAMMER TYPE Auto 140#

STRUCT. NO. 025-0046
Station 974+66

BORING NO. 1
Station 973+54
Offset 9.00ft Rt
Ground Surface Elev. 558.42 ft

Surface Water Elev. 536.99 ft
Stream Bed Elev. 534.49 ft

Groundwater Elev.:
First Encounter 535.7 ft
Upon Completion 535.9 ft
After 24 Hrs. 537.1 ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
8.5" asphalt on 9.5" concrete pavement.			
556.92			
Medium, damp, brown marbled gray, SILTY CLAY.	2		
	3	0.8	21
	3	B	
553.92			
-5 Very soft, very damp, gray, SILTY LOAM.	0		
	1	0.3	23
	2	B	
	1		
	2	0.3	13
	3	B	
-10	1		
	2	0.2	18
	3	PP	
	1		
	2	0.2	12
	2	B	
-15 Stiff	1		
	5	1.6	15
	8	S	
	1		
Medium	2	0.8	18
	2	B	
538.42 -20	0		

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Very soft, very damp, dark gray, SILTY LOAM.	0	0.2	24
	3	B	
535.72	1		
Gray, fine grained, SAND. 6% passing #200 sieve.	2	0.2	26
	3	B	
533.42 -25	0		
Very soft, very damp, dark gray, SILTY LOAM w/ wood pieces.	1	0.2	20
	2	B	
531.42	1		
Very loose, wet, gray, fine grained, SAND. 10% passing #200 sieve.	2		24
	3		
-30 6% passing #200 sieve.	1		
	1		20
	1		
523.92			
-35 Very soft, wet, gray, SANDY LOAM w/ fine Gravel.	4		
	5	0.2	15
	9	B	
518.92			
-40	49		

Latitude = 39 deg 03.534 min. Longitude = 88 deg 48.346 min. Map Datum: WGS 84

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

BBS, from 137 (Rev. 8-99)

Illinois Department of Transportation
Division of Highways
Illinois Department of Transportation

SOIL BORING LOG

Page 2 of 3

Date 6/12/07

ROUTE FAS 2801 (IL 128) DESCRIPTION Wolf Creek LOGGED BY E. Sandschafer

SECTION (102B)B-1 LOCATION NW 1/4, SEC. 7, TWP. 8 N, RNG. 4 E, 3 PM

COUNTY Effingham DRILLING METHOD Hollow stem auger & split spoon HAMMER TYPE Auto 140#

STRUCT. NO. 025-0046
Station 974+66

BORING NO. 1
Station 973+54
Offset 9.00ft Rt
Ground Surface Elev. 558.42 ft

Surface Water Elev. 536.99 ft
Stream Bed Elev. 534.49 ft

Groundwater Elev.:
First Encounter 535.7 ft
Upon Completion 535.9 ft
After 24 Hrs. 537.1 ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Very dense, moist, gray, SILTY CLAY SHALE. (continued) 517.92	50/4"		7
	50/2"		
Borehole continued with rock coring.			
-45			
-50			
-55			
-60			

Latitude = 39 deg 03.534 min. Longitude = 88 deg 48.346 min. Map Datum: WGS 84

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

BBS, from 137 (Rev. 8-99)

Illinois Department of Transportation
Division of Highways
Illinois Department of Transportation

ROCK CORE LOG

Page 3 of 3

Date 6/12/07

ROUTE FAS 2801 (IL 128) DESCRIPTION Wolf Creek LOGGED BY E. Sandschafer

SECTION (102B)B-1 LOCATION NW 1/4, SEC. 7, TWP. 8 N, RNG. 4 E, 3 PM

COUNTY Effingham CORING METHOD Rotary, surf set diamond bit

STRUCT. NO. 025-0046
Station 974+66

BORING NO. 1
Station 973+54
Offset 9.00ft Rt
Ground Surface Elev. 558.42 ft

CORING BARREL TYPE & SIZE NW, conv dbl bbl, split inner
Core Diameter 2.06 in
Top of Rock Elev. 518.92 ft
Begin Core Elev. 517.92 ft

DEPTH (ft)	CORE (#)	RECOVERY (%)	R.Q.D. (%)	CORE TIME (min/ft)	STRENGTH (tsf)
Gray, moderately to severely weathered, SILTY CLAY SHALE. 517.92	B1-1	94	46	0.9	
Rock core B1A at depth 42.4' to 42.9' Qu = 12 tsf					
513.52 -45 Gray, soft, CLAY SHALE w/ fine Gravel. 513.22					
Dark gray, slightly weathered, SILTY CLAY SHALE.	B1-2	85	85	0.9	
Rock core B1B at depth 48.9' to 49.5' Qu = 30 tsf					
508.72					
-50 Black, highly fragmented, COAL. 508.62	B1-3	95	48	1	
Dark gray, slightly weathered, SILTY CLAY SHALE. 507.52					
Black, highly fragmented, COAL. 507.12					
Gray, slightly weathered, SILTY CLAY SHALE. 505.92					
Gray, SANDY CLAY SHALE.					
Rock core B1C at depth 52.9' to 53.4' Qu = 37 tsf					
504.12					
-55 Extent of exploration.					
Benchmark: BM 529 chiseled square on top of SE wingwall of existing bridge, Station 975+61.9 Lt 18' = 565.08' elevation. Provided by Program Development. UPDATED Station 03/25/08.					
Note: Structure on Effingham/Fayette County line. NE 1/4, Section 12, T8N, R3E, Fayette County.					
-60					

Color pictures of the cores Available on request
Cores will be stored for examination until 06/12/08
The "Strength" column represents the unlaxial compressive strength of the core sample (ASTM D-2938)

BBS, form 138 (Rev. 8-99)

MAURER ▲ STUTZ, INC.
ENGINEERS SURVEYORS

DESIGNED	- BAS
CHECKED	- KEF
DRAWN	- SEM
CHECKED	- RJA

SOIL BORINGS
IL ROUTE 128 OVER WOLF CREEK
F.A.S. RTE. 2801 - SECTION (102B)B-1
EFFINGHAM COUNTY
STATION 974+76.00
STRUCTURE NO. 025-0105

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAS 2801 IL 128	(102B) B-1	EFFINGHAM	51	45
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT-	

SHEET NO. 23
23 SHEETS

Contract # 74232

Illinois Department of Transportation
Division of Highways
Illinois Department of Transportation

SOIL BORING LOG

Page 1 of 1

Date 6/12/07

ROUTE FAS 2801 (IL 128) DESCRIPTION Wolf Creek LOGGED BY E. Sandschafer

SECTION (102B)B-1 LOCATION NW 1/4, SEC. 7, TWP. 8 N, RNG. 4 E, 3 PM

COUNTY Effingham DRILLING METHOD Hollow stem auger & split spoon HAMMER TYPE Auto 140#

STRUCT. NO. 025-0046
Station 974+66

BORING NO. 2
Station 975+77
Offset 8.00ft Lt
Ground Surface Elev. 565.71 ft

Surface Water Elev. 536.99 ft
Stream Bed Elev. 534.49 ft

Groundwater Elev.:
First Encounter Dry ft
Upon Completion Dry ft
After 24 Hrs. Dry ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)	Description
				8" asphalt on 9" concrete pavement.
564.31				
	1			Stiff, damp, tan, SANDY CLAY.
	2	1.2	11	
	2	PP		
561.21				
-5	3			Medium to very soft, very damp, brown, SANDY LOAM.
	2	0.8	10	
	3	PP		
	3			
	4	0.2	14	
	5	PP		
556.21				
-10	2			Medium to stiff, damp, brown, SANDY CLAY TILL.
	3	1.0	9	
	2	PP		
	2			
552.71				
	2	2.0	17	Stiff, damp, gray, CLAY LOAM TILL.
	2	B		
-15	1			
	4	0.6	15	
550.11	4	B		
				Very dense, moist, brown, SANDSTONE.
548.41	50/3"		11	
	50/1"			Extent of exploration.
	50/0"			
-20				

Benchmark: BM 529 chiseled square on top of SE wingwall of existing bridge. Station 975+61.9 Lt 18' = 565.08' elevation. Provided by Program Development. UPDATED Station 03/25/08.

Note: Structure on Effingham/Fayette County line. NE 1/4, Section 12, T8N, R3E, Fayette County.

-25 -30 -35 -40

Latitude W 88 deg 48.344 min. Longitude N 39 deg 09.494 min. Map Datum WGS 84

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

BBS, from 137 (Rev. 8-99)

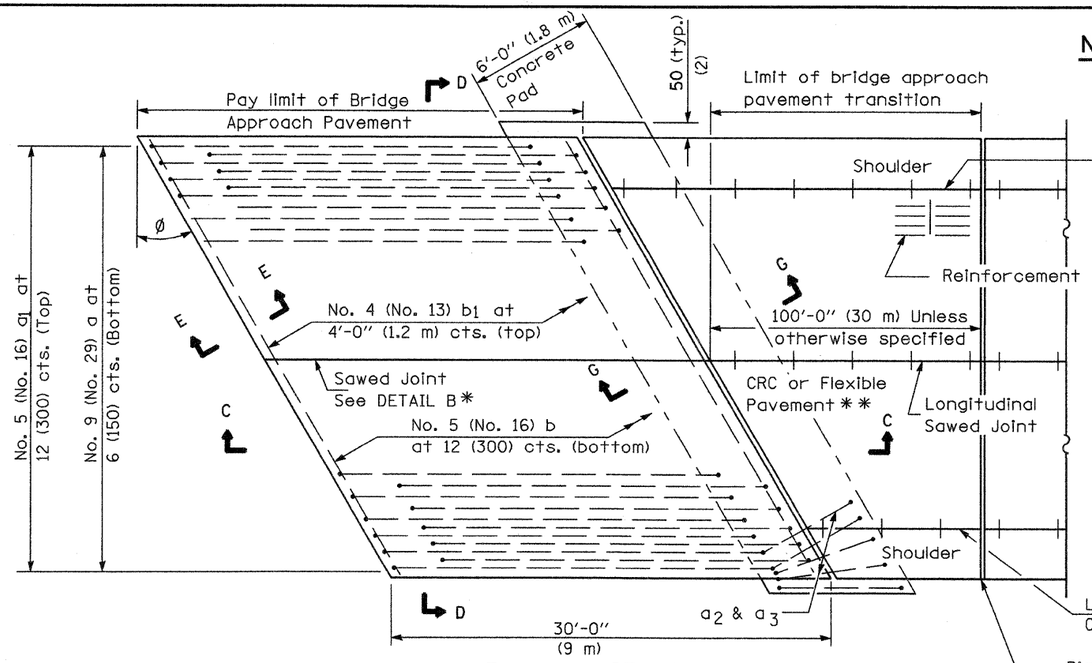
MAURER ▲ STUTZ, INC.
ENGINEERS SURVEYORS

DESIGNED	- BAS
CHECKED	- KEF
DRAWN	- SEM
CHECKED	- RJA

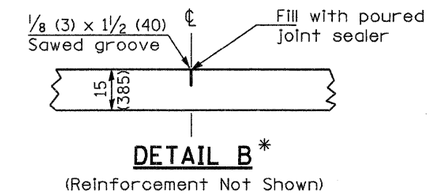
SOIL BORINGS
IL ROUTE 128 OVER WOLF CREEK
F.A.S. RTE. 2801 - SECTION (102B)B-1
EFFINGHAM COUNTY
STATION 974+76.00
STRUCTURE NO. 025-0105

...\CADD\0250105-74232-Boring.dgn 12/10/2008 3:10:32 PM

NEW CONSTRUCTION

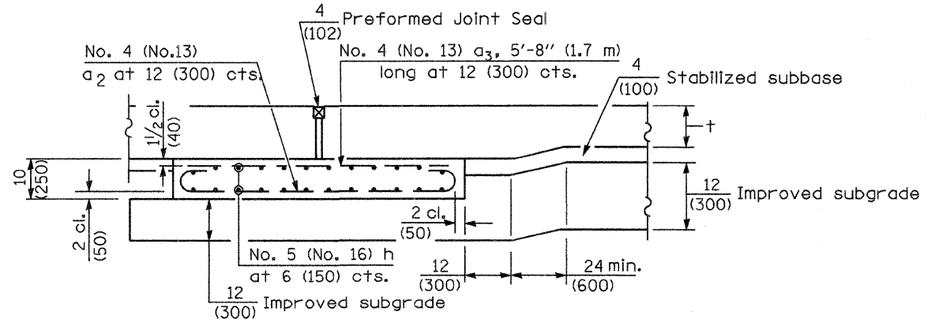


PLAN - WITH SKEW



DETAIL B*

(Reinforcement Not Shown)

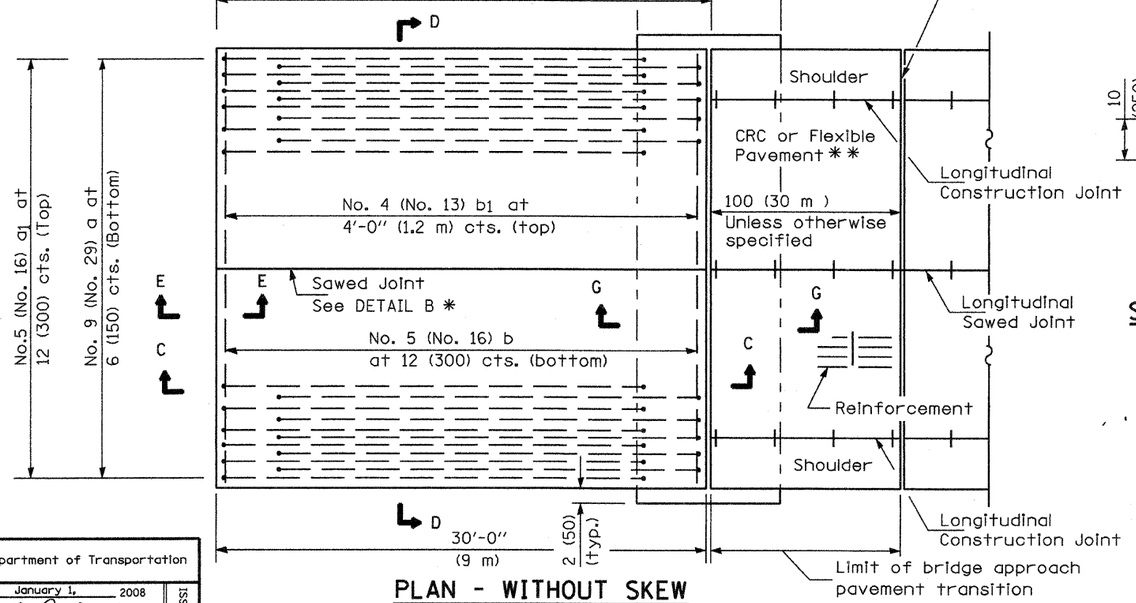


SECTION G-G - RIGID PAVEMENT

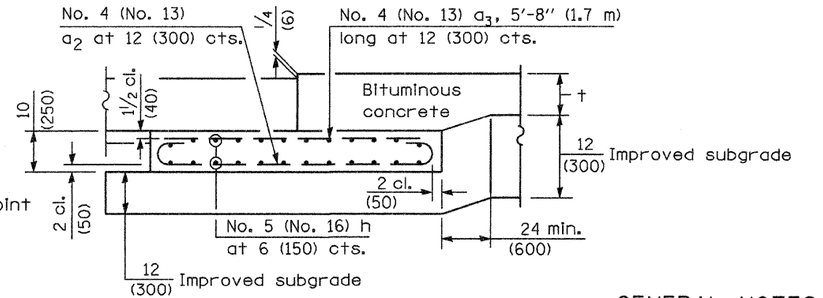
(Showing reinforcement)

Rigid Pavement only:

Wide Flange Beam Terminal Joint (See DETAIL AT BEAM - Standard 421101 or 421106) or 2 (50) Trans. Exp. Joint as detailed on Standard 420001.



PLAN - WITHOUT SKEW



SECTION G-G - FLEXIBLE PAVEMENT

(Showing reinforcement)

* Saw ℄ or lane edge if poured two or more lane widths at a time.

** Omit Reinforcement, tie bars and Long. sawed Jt. for Flexible Pavement.

GENERAL NOTES

THICKNESS-"t"=Thickness of Pavement.

See Standard 421001 for reinforcement details not shown.

See Standard 420001 for joint details not shown.

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

Illinois Department of Transportation

APPROVED January 1, 2008
Ralph E. Anderson
ENGINEER OF BRIDGES AND STRUCTURES

APPROVED January 1, 2008
Lee E. Han
ENGINEER OF DESIGN AND ENVIRONMENT

ISSUED 1-1-97

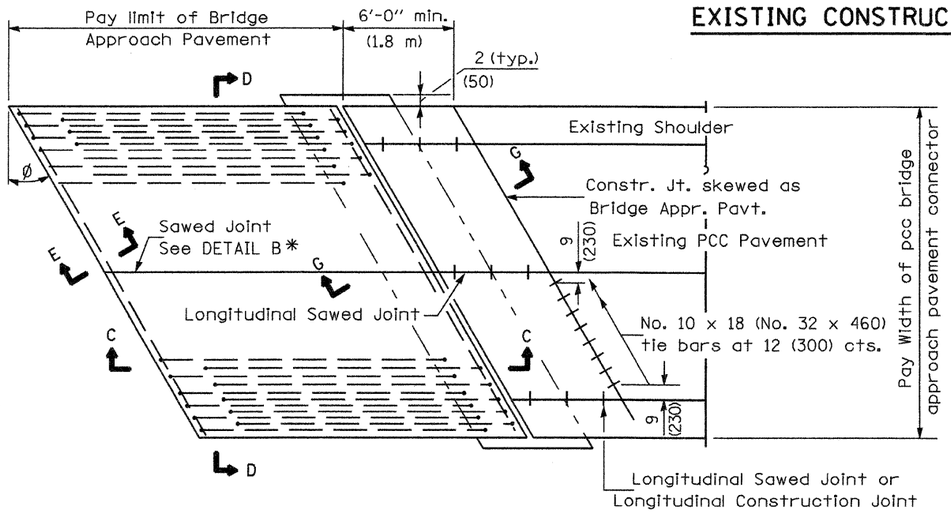
DATE	REVISIONS
1-1-08	Switched units to English
	(metric). Moved rebar epoxy
	coat note to Standard Spec.
1-1-04	Rev. size of Trans. Exp.
	Jt. and soft converted
	metric reinf.

BRIDGE APPROACH PAVEMENT

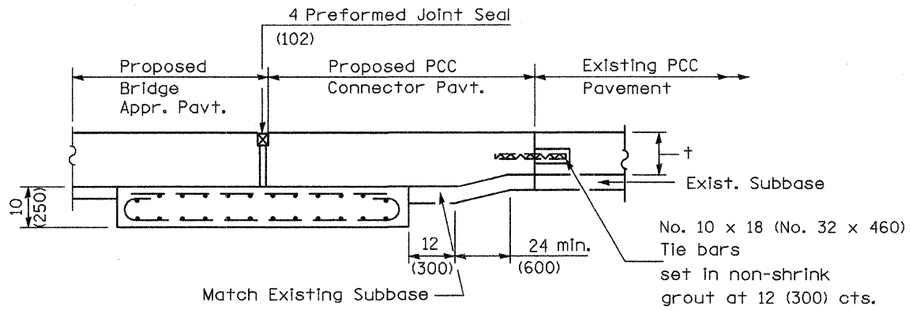
(Sheet 1 of 4)

Contract 74232 Sheet 45a.

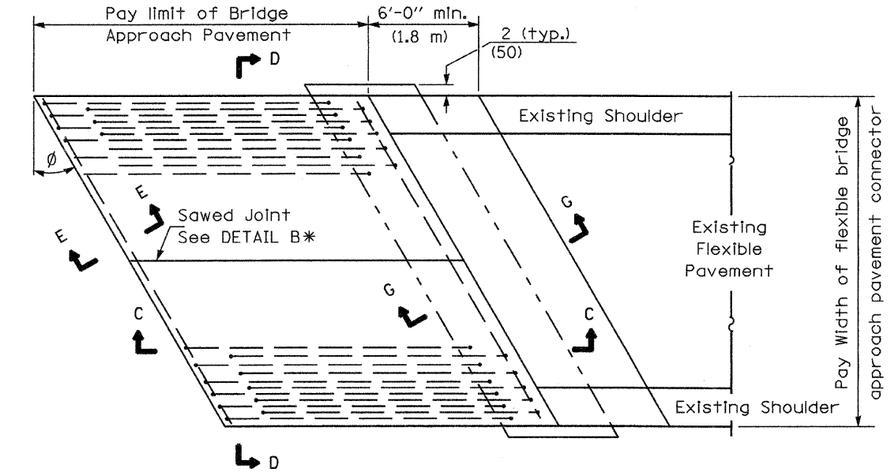
EXISTING CONSTRUCTION



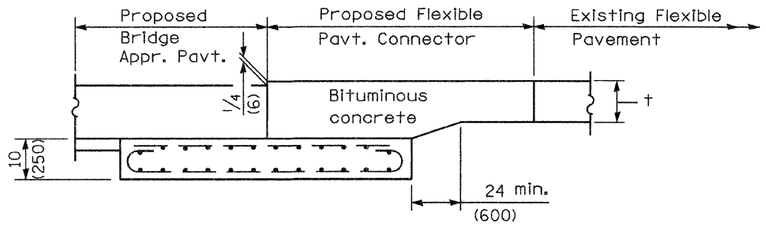
BRIDGE APPROACH PAVEMENT CONNECTOR (PCC)



SECTION G-G - RIGID PAVEMENT



BRIDGE APPROACH PAVEMENT CONNECTOR (FLEXIBLE)



SECTION G-G - FLEXIBLE PAVEMENT

Illinois Department of Transportation

APPROVED January 1, 2008
Ralph E. Anderson
ENGINEER OF BRIDGES AND STRUCTURES

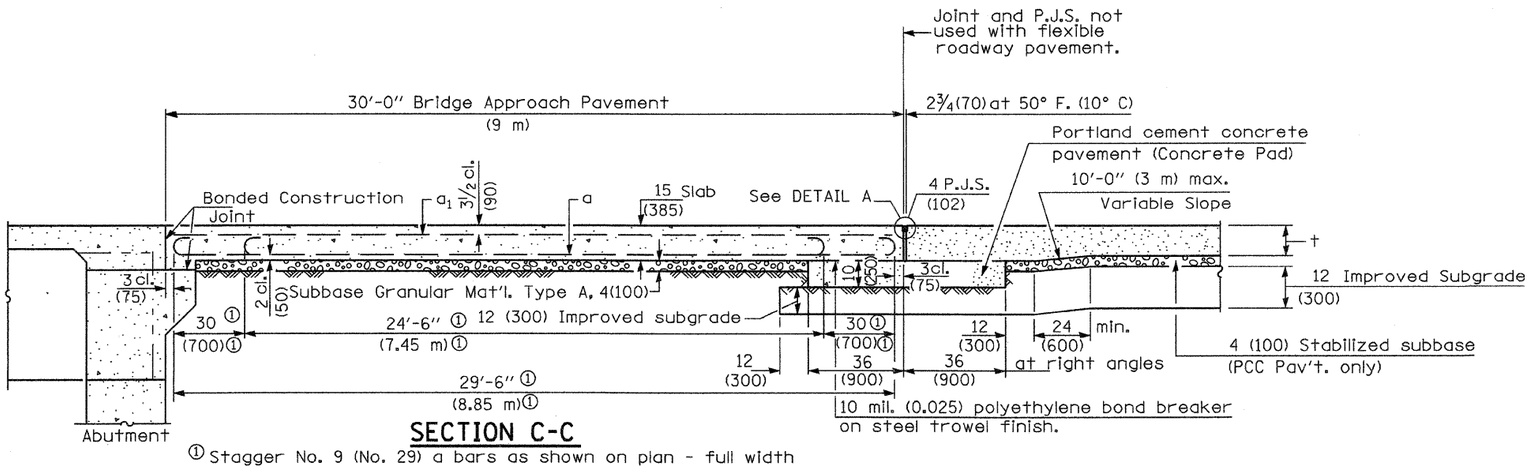
APPROVED January 1, 2008
Gene E. Hoss
ENGINEER OF DESIGN AND ENVIRONMENT

ISSUED 1-1-07

BRIDGE APPROACH PAVEMENT

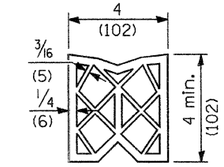
(Sheet 2 of 4)

Contract 74232 Sheet 45b.

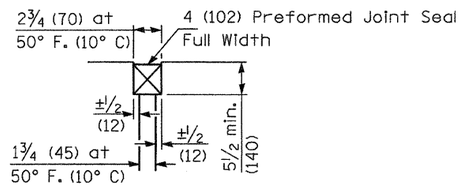


SECTION C-C

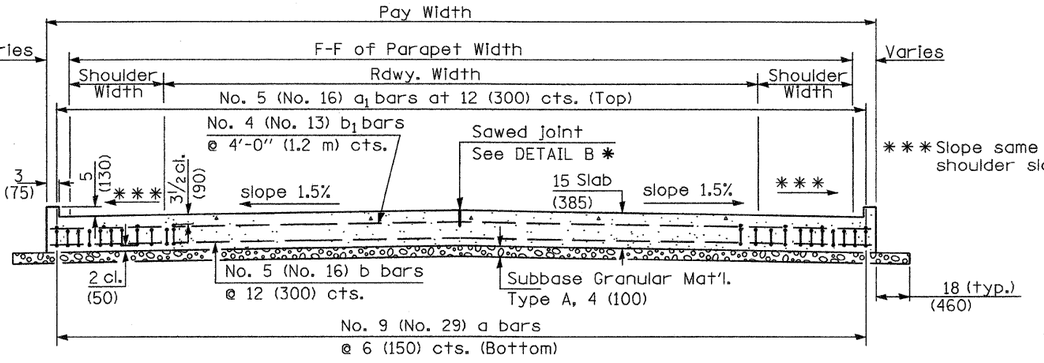
① Stagger No. 9 (No. 29) a bars as shown on plan - full width



PREFORMED JOINT SEAL



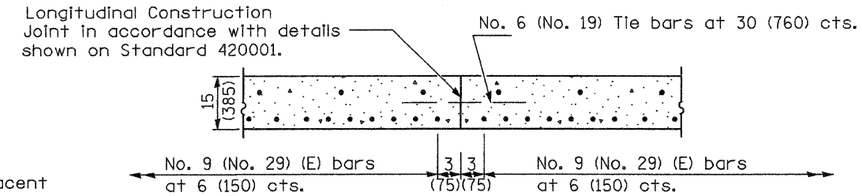
DETAIL A



*** Slope same as adjacent shoulder slope.

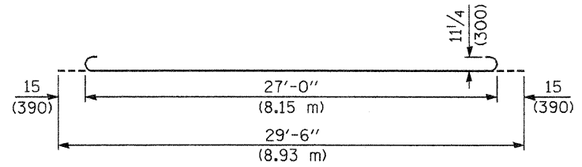
SECTION D-D

(See Plan for Dimensions not shown)

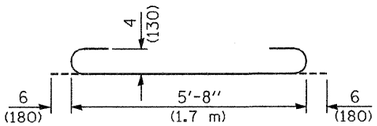


OPTIONAL LONGITUDINAL CONSTRUCTION JOINT

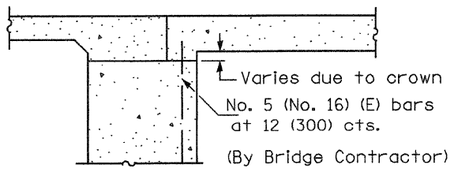
As approved by the Engineer, the Contractor may elect to reduce the widths of pour by use of the Optional Longitudinal Construction Joint shown. Joints shall be located at the edge of a traffic lane.



BAR a

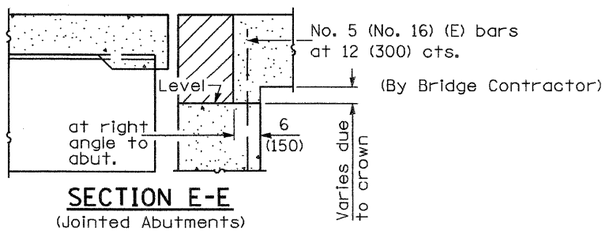


BAR a2



SECTION E-E

(Integral Abutments)



SECTION E-E

(Jointed Abutments)

DESIGN STRESSES

fy = 60,000 p.s.i. (400 MPa)
f'c = 3,500 p.s.i. (24 MPa)
n = 8.5

Illinois Department of Transportation

APPROVED January 1, 2008
Ralph E. Anderson
ENGINEER OF BRIDGES AND STRUCTURES

APPROVED January 1, 2008
Gene E. Hou
ENGINEER OF DESIGN AND ENVIRONMENT

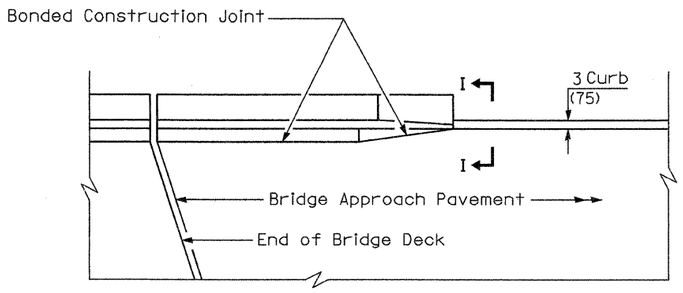
ISSUED 1-1-97

BRIDGE APPROACH PAVEMENT

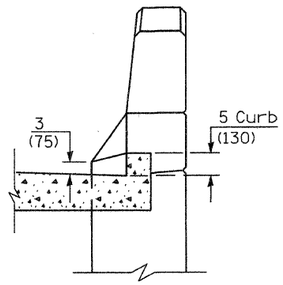
(Sheet 3 of 4)

Contract 74232

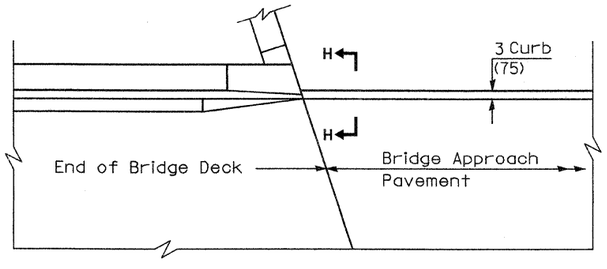
Sheet 45c.



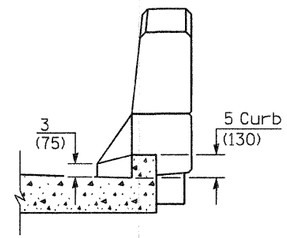
PARAPET TO CURB TRANSITION
PILE BENT ABUTMENT



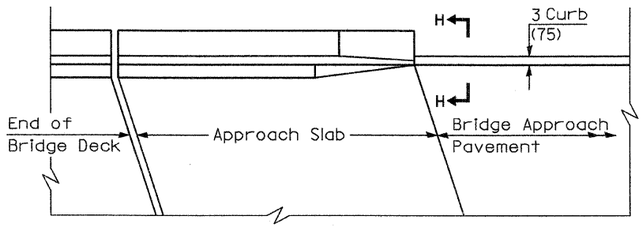
SECTION I - I



PARAPET TO CURB TRANSITION
INTEGRAL ABUTMENT



SECTION H - H



PARAPET TO CURB TRANSITION
VAULTED ABUTMENT

Illinois Department of Transportation

APPROVED January 1, 2008
Ralph E. Anderson
ENGINEER OF BRIDGES AND STRUCTURES

APPROVED January 1, 2008
Gene E. Hou
ENGINEER OF DESIGN AND ENVIRONMENT

ISSUED 1-1-07

BRIDGE APPROACH PAVEMENT

(Sheet 4 of 4)

Contract 74232 Sheet 45d.

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

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

970 + 50.00

EXISTING R.O.W.

PROPOSED R.O.W.

50.73,545.56

545.06

B_ IL 128

C=0.1 F=76.6

4.00% 1.50% 4.00%

3:1

970 + 00.00

EXISTING R.O.W.

41.59,546.00

545.15

B_ IL 128

C=0.5 F=71.3

4.00% 1.50% 4.00%

3:1

969 + 50.00

EXISTING R.O.W.

40.67,546.23

B_ IL 128

C=1.1 F=55.5

4.00% 1.50% 4.00%

3:1

969 + 00.00

EXISTING R.O.W.

38.37,546.92

B_ IL 128

C=1.5 F=32.9

4.00% 1.50% 4.00%

3:1

968 + 50.00

EXISTING R.O.W.

12.81,554.60

B_ IL 128

C=1.1 F=0.0

1.50%

-12.63,554.71

PROJECT BEGINS STA. 968 + 50.00

EXISTING R.O.W.

-42.23,545.93

PROPOSED R.O.W.

EXISTING R.O.W.

-41.49,546.04

EXISTING R.O.W.

-39.91,546.48

EXISTING R.O.W.

-19.49,553.21

EXISTING R.O.W.

FILE NAME = $FILEL$	USER NAME = $USER$	DESIGNED - JDS	REVISED -
		DRAWN - WLL 10/14/08	REVISED -
	PLOT SCALE = $SCALE$	CHECKED - GBM 10/14/08	REVISED -
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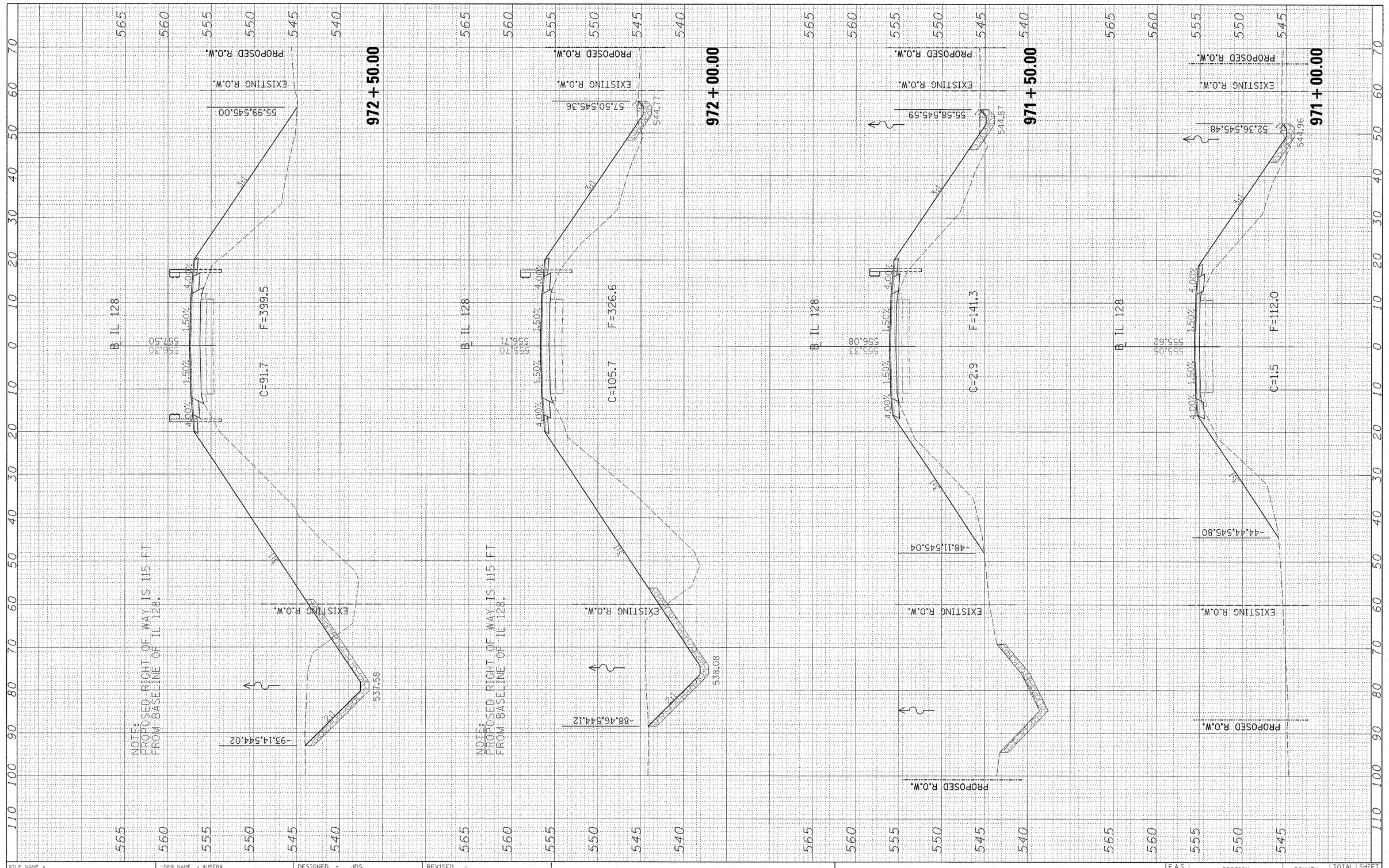
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL 128 OVER WOLF CREEK CROSS SECTIONS

SCALE: | SHEET NO. OF SHEETS | STA. 968+50.00 TO STA. 970+50.00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2801	(102B)B-1	EFFINGHAM	51	46
		CONTRACT NO. 74232		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



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

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

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

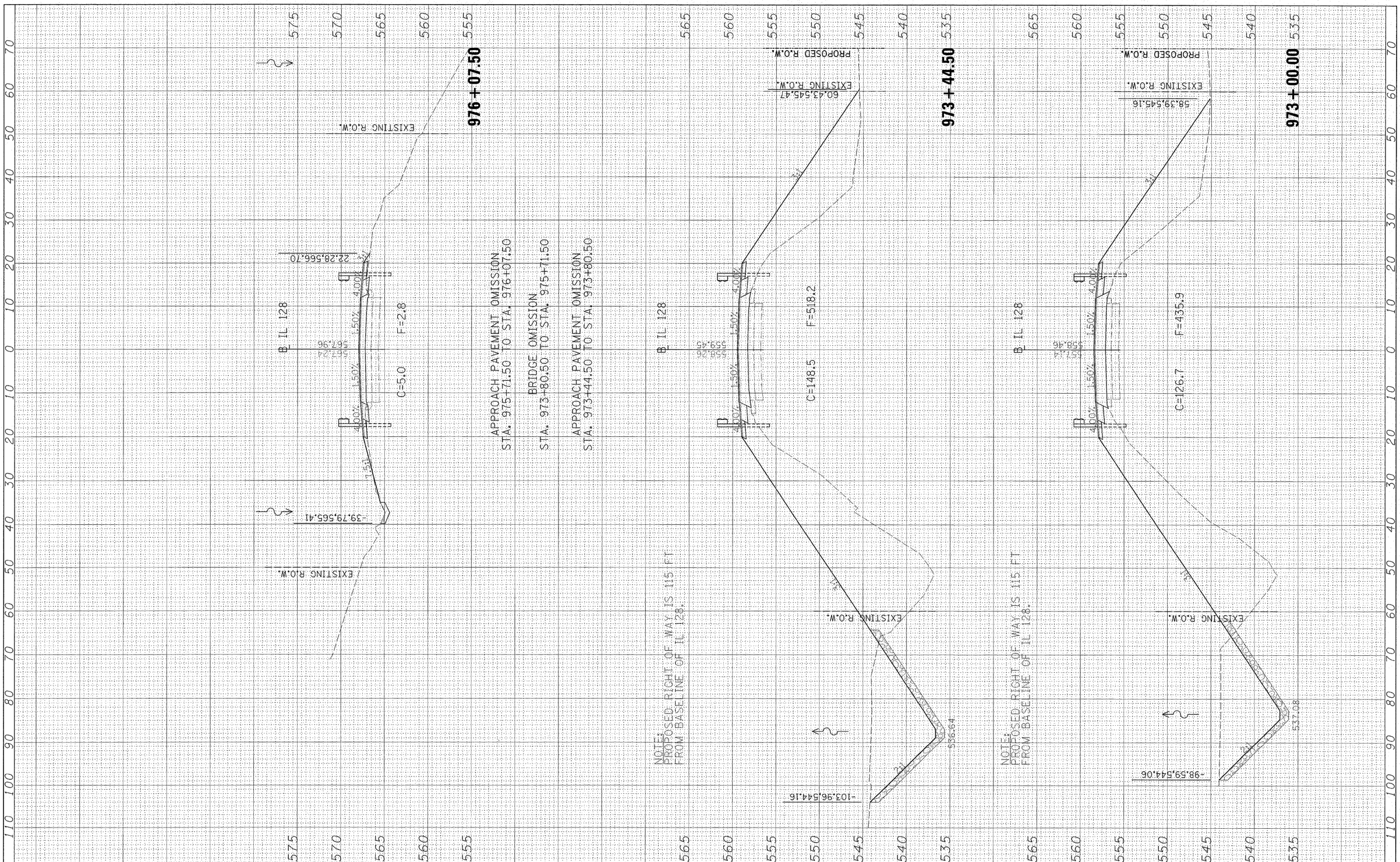
IL 128 OVER WOLF CREEK CROSS SECTIONS

SCALE: | SHEET NO. OF SHEETS | STA. 971+00.00 TO STA. 972+50.00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2801	(102B)B-1	EFFINGHAM	51	47
		CONTRACT NO. 74232		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

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

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



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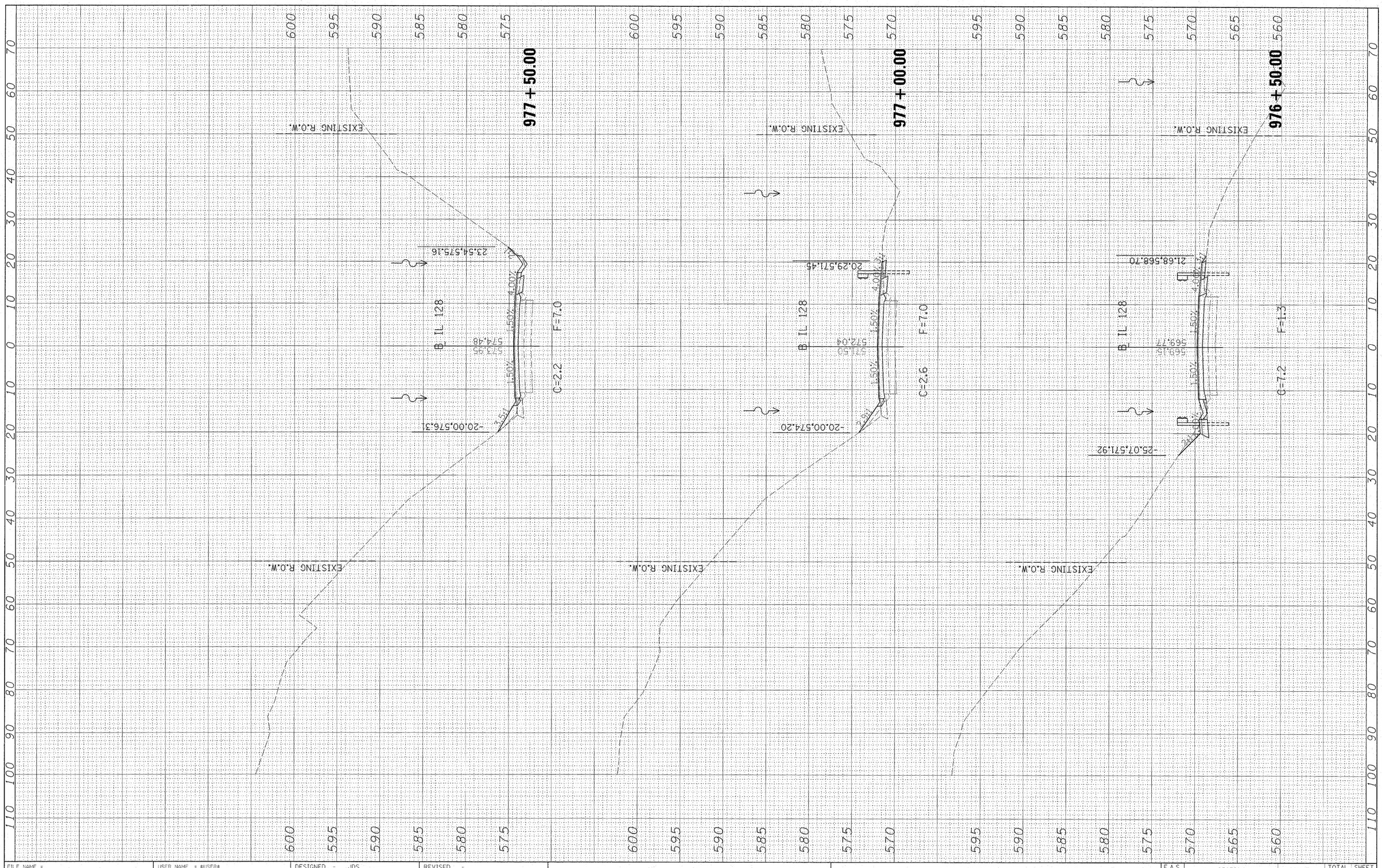
	PLOT DATE = $DATE$	DATE - 10/15/08	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL 128 OVER WOLF CREEK CROSS SECTIONS

SCALE: | SHEET NO. OF SHEETS | STA. 973+00.00 TO STA. 976+07.50

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2801	(102B)B-1	EFFINGHAM	51	48
		CONTRACT NO. 74232		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL 128 OVER WOLF CREEK CROSS SECTIONS

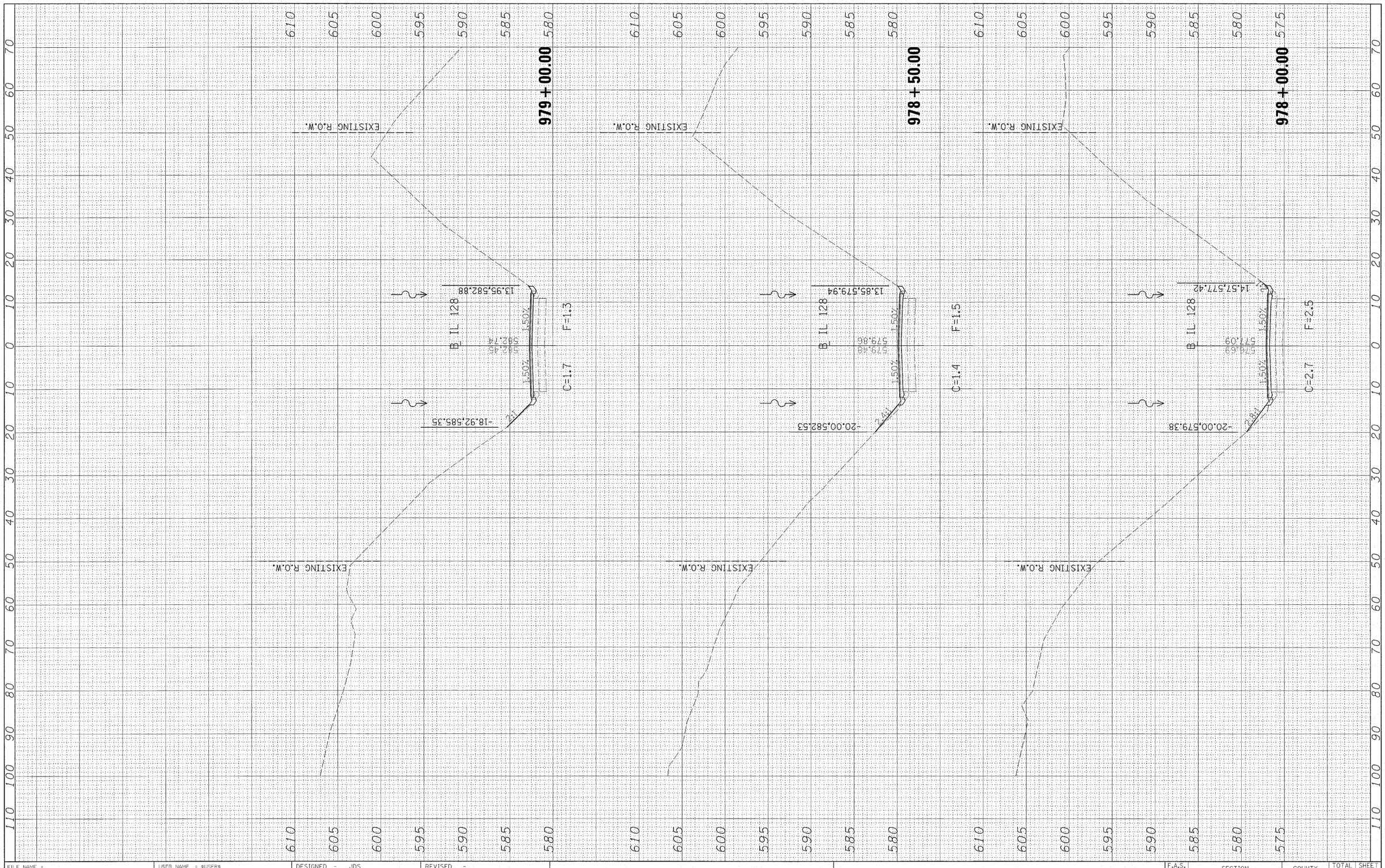
SCALE: | SHEET NO. OF SHEETS | STA. 976+50.00 TO STA. 977+50.00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2801	(102B)B-1	EFFINGHAM	51	49
		CONTRACT NO. 74232		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

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

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

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



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

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	PLOT SCALE = $SCALE$	CHECKED - GBM 10/14/08	REVISED -
	PLOT DATE = $DATE$	DATE - 10/15/08	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL 128 OVER WOLF CREEK CROSS SECTIONS

SCALE: | SHEET NO. OF SHEETS | STA. 978+00.00 TO STA. 979+00.00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2801	(102B)B-1	EFFINGHAM	51	50
		CONTRACT NO. 74232		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

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

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

PROJECT ENDS STA. 980+50.00

EXISTING R.O.W.

980+50.00

-13.18,591.73

B IL 128

12.86,591.50

591.40

591.40

1.50%

1.50%

F=0.0

C=1.7

EXISTING R.O.W.

980+00.00

-18.13,590.89

B IL 128

15.00,589.56

588.51

588.4

1.50%

1.50%

F=0.0

C=3.2

EXISTING R.O.W.

979+50.00

-15.00,586.25

B IL 128

14.04,585.81

585.63

585.42

1.50%

1.50%

F=0.0

C=2.3

FILE NAME = $FILE1$	USER NAME = $USER$	DESIGNED - JDS	REVISED -
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	PLOT SCALE = $SCALE$	CHECKED - GBM 10/14/08	REVISED -
	PLOT DATE = $DATE$	DATE - 10/15/08	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL 128 OVER WOLF CREEK CROSS SECTIONS

SCALE: | SHEET NO. OF SHEETS | STA. 979+50.00 TO STA. 980+50.00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2801	(102B)B-1	EFFINGHAM	51	51
		CONTRACT NO. 74232		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		