

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
10	410BR-1	GREENE	37	1
FED. ROAD DIST. NO.	ILLINOIS	CONTRACT NO.	76B58	

★37+13=50

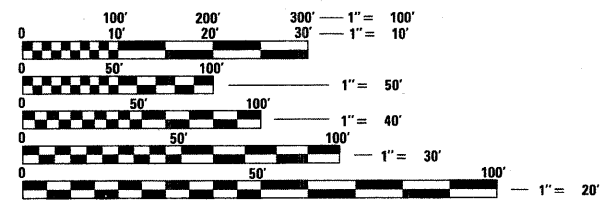
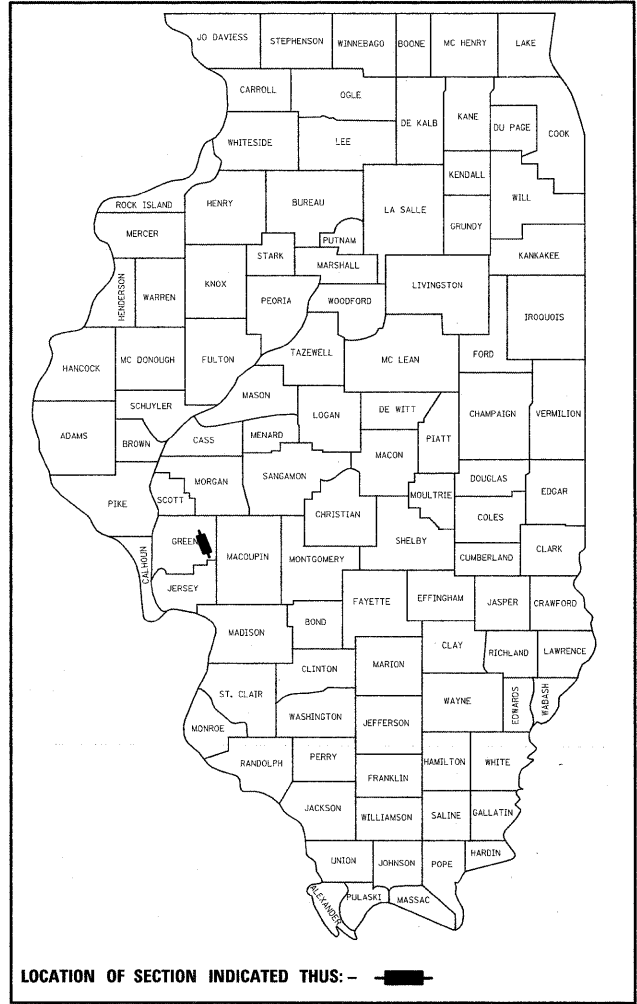
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

PROPOSED
HIGHWAY PLANS

FAP ROUTE 10 (IL 267)
SECTION 410BR-1
PROJECT: BRF-0010(076)
GREENE COUNTY
REPLACEMENT OF THE STRUCTURE
CARRYING IL 267 OVER TAYLOR CREEK
C-98-024-08

FOR INDEX OF SHEETS SEE SHEET 2

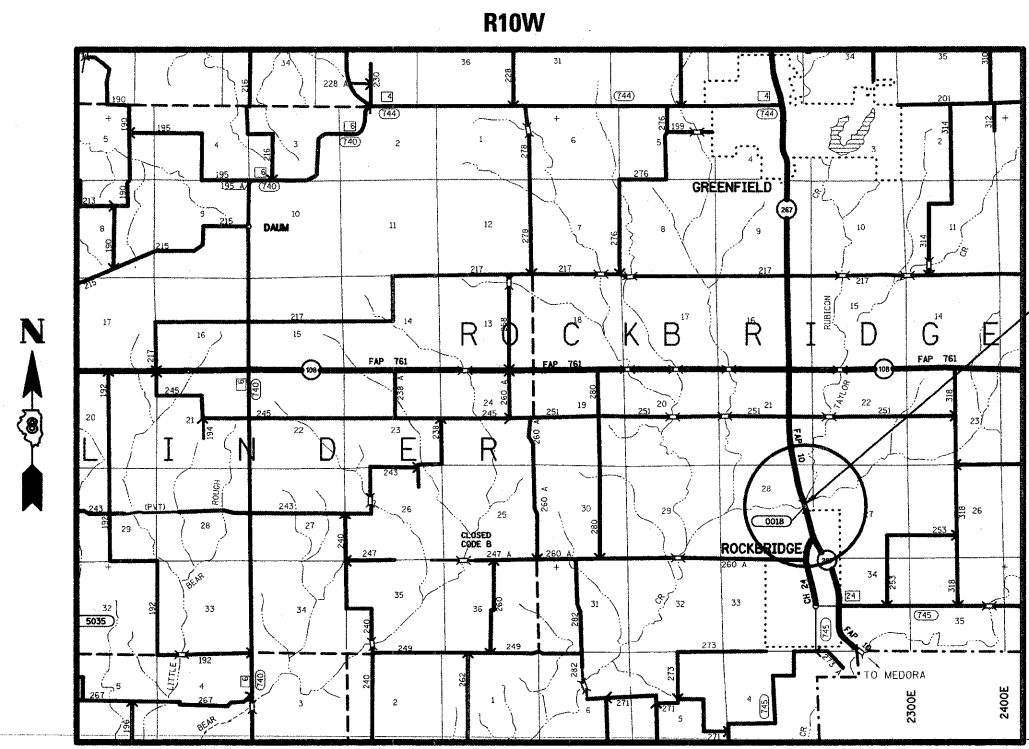
D-98-030-08



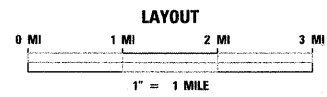
FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

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

TRAFFIC DATA:
 ADT: 2200 (2009)
 2700 (2025)
 SU: 5.8%
 MU: 12.8%



PROJECT LOCATION
 STATION 85+20.50



LATITUDE: 39.11796
 LONGITUDE: 90.20696

GROSS LENGTH: .029 MILES (ABUTMENT TO ABUTMENT)
 NET LENGTH: .029 MILES (ABUTMENT TO ABUTMENT)

PROJECT ENGINEER: PATTI LEBEAU (618) 346-3179
SQUAD CONTACT: ART MUEHLFELD (618) 346-3209
CONTRACT NO. 76B58

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

SUBMITTED *October 16, 20 08*

M. C. Jamme
 DEPUTY DIRECTOR OF HIGHWAYS, REGION 5 ENGINEER

December 5, 20 08
Eric E. Hamm
 ENGINEER OF DESIGN AND ENVIRONMENT

December 5, 20 08
Christine M. Reed
 DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

PRINTED BY THE AUTHORITY
OF THE STATE OF ILLINOIS

INDEX OF SHEETS

- 1 COVER SHEET
- 2 INDEX OF SHEETS, HWY. STDS. GEN. NOTES. & COMMITMENTS
- 3-4 SUMMARY OF QUANTITIES
- 5 TIE POINTS & BENCH MARKS
- 6 TYPICAL SECTIONS
- 7 SCHEDULE OF QUANTITIES
- 8-10 PLAN & PROFILE SHEETS
- 11 SUGGESTED STAGES CONSTRUCTION NOTES
- 12-12D DETAILS
- 13-31 STRUCTURE PLANS
- 32-35 CROSS SECTION SHEETS
- 36-37E EXISTING BRIDGE PLANS
- 37F-37I BRIDGE APPROACH PAVT. DETAILS

GENERAL NOTES

1. THE STANDARDS AND REVISION NUMBERS STATED IN THE PLANS SHALL APPLY TO THIS CONTRACT.
2. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS IN THE FIELD PRIOR TO CONSTRUCTION AND THE ORDERING OF MATERIALS.
3. ILLINOIS STATE LAW REQUIRES A 48-HOUR NOTICE BE GIVEN TO ALL UTILITIES BEFORE DIGGING. FIELD MARKING OF FACILITIES MAY BE OBTAINED BY CONTACTING J.U.L.I.E. OR FOR NON-MEMBERS, THE UTILITY COMPANY DIRECTLY. AGENCIES KNOWN TO HAVE FACILITIES WITHING THE PROJECT AREA ARE AS FOLLOWS:
 - AMERENCIPS
 - FRONTIER COMMUNICATIONS COMPANY
 - VERIZON NORTH, INC.
 MEMBERS OF J.U.L.I.E. (800) 892-0123 ARE INDICATED BY AN *. NON- J.U.L.I.E. MEMBERS MUST BE NOTIFIED INDIVIDUALLY.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SEEDING, FERTILIZING, AND MULCHING ANY AREAS DISTURBED OUTSIDE THE LIMITS OF CONSTRUCTION. THIS WORK WILL NOT BE MEASURED FOR PAYMENT. THE SEEDING SHALL BE CLASS 1. THE APPLICATION OF THE SEEDING, FERTILIZER AND MULCH SHALL BE TO THE SATISFACTION OF THE ENGINEER, FINAL SEEDING SHALL BE PERFORMED AS SOON AS POSSIBLE.
5. IF THE CONTRACTOR REMOVES TREES WITHIN THE PROJECT RIGHT-OF-WAY LIMITS FOR HIS CONSTRUCTION ACTIVITY, I.E. IN ORDER TO GAIN ACCESS TO THE PROJECT SITE, IT WILL BE HIS RESPONSIBILITY TO REPLACE THE TREES AT A 1:1 RATIO. THE TREES WILL BE REPLACED WITH A 1 GALLON NATIVE ILLINOIS TREE SPECIES AND SHALL BE APPROVED BY THE ENGINEER. THE TREE REMOVAL AND TREE REPLACEMENT WILL BE AT THE CONTRACTOR'S EXPENSE AND NO OTHER COMPENSATION WILL BE ALLOWED.
6. "ROAD CONSTRUCTION AHEAD" SIGNS SHALL BE PLACED AT THE BEGINNING AND ENDING OF THE PROJECT AND WILL BE INCLUDED IN THE TRAFFIC CONTROL PAY ITEMS. ALL CONSTRUCTION SIGNS SHALL BE FLUORESCENT ORANGE.
7. NO TRENCHES OR OPEN PITS WILL BE PERMITTED ADJACENT TO A TRAFFIC LANE DURING NONE WORKING HOURS. ALL WIDENING TRENCHES SHALL BE BACK FILLED DURING THE SAME WORKING DAY IT WAS EXCAVATED.
8. THE COST OF GRADING AND SHAPING ALONG THE PROPOSED BASE COURSE SHALL BE INCLUDED IN THE COST OF "EARTH EXCAVATION".
9. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO INSURE THAT ADJACENT PAVEMENT IS NOT DAMAGED DURING ANY OPERATION.
10. ALL TEMPORARY PAVEMENT MARKING SHALL BE PLACED IN SUCH A MANNER AS NOT TO INTERFERE WITH THE PLACEMENT OF PERMANENT PAVEMENT MARKING.
11. ALL WIDE LOAD SIGNING SHALL BE IN PLACE PRIOR TO COMMENCEMENT OF THE CONTRACT.
12. EXCAVATIONS ADJACENT TO THE EDGE OF PAVEMENT SHALL BE PROTECTED WITH EXTENDED LEG BARRICADES AND APPROPRIATE FLASHING OR STEADY BURNING LIGHTS. NO ADDITIONAL COMPENSATION WILL BE ALLOWED.
13. THE THICKNESS OF THE BITUMINOUS MIXTURE SHOWN ON THE PLANS IS A NOMINAL THICKNESS. DEVIATIONS FROM THE NOMINAL THICKNESS WILL BE PERMITTED WHEN SUCH DEVIATIONS OCCUR DUE TO THE IRRREGULARITY IN THE BASE ON WHICH THE MIXTURE IS PLACED.
14. WHEN SECTION OR SUB-SECTION 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, AN AUTHORIZED SURVEYOR, OR AGENT HAS WITNESSED OR OTHERWISE REFERENCED THE LOCATION.
15. STANDARD 610001 HAS BEEN MODIFIED TO UTILIZE TYPE B INLET BOX, STANDARD 609006. SEE THE SPECIAL PROVISIONS "SHOULDER INLET WITH CURB, SPECIAL" AND THE DETAILS FOR MORE INFORMATION.
16. THE PAVEMENT REMOVAL QUANTITY INCLUDES 35 SQUARE YARDS OF BRIDGE APPROACH PAVEMENT.
17. ALL EXISTING AND PROPOSED RIGHT-OF-WAY LINES AND PROPERTY LINES SHOWN ON THE PLAN SHEETS ARE GRAPHICAL REPRESENTATIONS AND SHALL NOT BE USED AS A MEANS TO ESTABLISH OWNERSHIP. IN ALL MATTERS RELATING TO RIGHT-OF-WAY, THE PLAT OF HIGHWAYS SHALL BE THE CONTROLLING DOCUMENT.
18. THE EXISTING STEEL BEAM SHORING IN SPAN 3 SHALL BE SALVAGED.

LIST OF HIGHWAY STANDARDS

000001-05	606201-02	635011-02	780001-02
001001-02	420401-07	701006-03	781001-03
001006	610001-04	701011-02	420001-07
406201-01	630001-08	701321-10	421001-02
420701-02	630301-05	701325-03	601101-01
515001-03	631031-07	701901-01	
542401-01	635006-03	704001-05	

COMMITMENTS

NONE

MIXTURE REQUIREMENT CHART	
ADT (CONSTRUCTION YR):	2200
MUZ:	12.8
SUZ:	5.8
20 YR ESAL'S	
MIXTURE USE	BINDER/WIDENING
AC/PG	PG 64-22
RAP% (MAX)	15%
DESIGN AIR VOIDS	4.0% @ NDES = 70
MIX COMPOSITION	
(GRADATION MIXTURE)	
FRICTION AGG	MIXTURE "B"

FILE NAME =	USER NAME = manntm	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	GENERAL NOTES, INDEX OF SHEETS, STANDARDS	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
c:\pw_work\PWDOT\MANNM\dms51659\pln2008a.dgn		DRAWN -	REVISED -			10	410BR-1	GREENE	37	2
PLOT SCALE = 50.0000' / IN.		CHECKED -	REVISED -			CONTRACT NO. 76B58				
PLOT DATE = 10/15/2008		DATE -	REVISED -			SCALE:	SHEET NO. OF SHEETS	STA. TO STA.	FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT

SUMMARY OF QUANTITIES

SUMMARY OF QUANTITIES			TOTAL QUANTITIES	CONSTRUCTION TYPE CODE		SUMMARY OF QUANTITIES			TOTAL QUANTITIES	CONSTRUCTION TYPE CODE	
CODE NO	ITEM	UNIT		X071-2A FED 80% STATE 20%		CODE NO	ITEM	UNIT		X071-2A 80% FED. 20% STATE	
20200100	EARTH EXCAVATION	CU YD	305	305		51204650	PILE SHOES	EACH	24	24	
20700400	POROUS GRANULAR EMBANKMENT, SPECIAL	CU YD	98	98		51205200	TEMPORARY SHEET PILING	SQ FT	299	299	
25000200	SEEDING, CLASS 2	ACRE	0.25	0.25		51500100	NAME PLATES	EACH	1	1	
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	25	25		52100520	ANCHOR BOLTS, 1"	EACH	48	48	
25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	25	25		54215547	METAL END SECTIONS 12"	EACH	2	2	
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	25	25		59100100	GEOCOMPOSITE WALL DRAIN	SQ YD	62	62	
25100105	MULCH, METHOD 1	ACRE	0.25	0.25		60100945	PIPE DRAINS 12"	FOOT	78	78	
28100101	STONE RIPRAP, CLASS A1	SQ YD	10	10		60109580	PIPE UNDERDRAINS FOR STRUCTURES 4"	FOOT	134	134	
28100105	STONE RIPRAP, CLASS A3	SQ YD	10	10		60500060	REMOVING INLETS	EACH	3	3	
28100109	STONE RIPRAP, CLASS A5	SQ YD	1661	1661		60900515	CONCRETE THRUST BLOCKS	EACH	2	2	
28200200	FILTER FABRIC	SQ YD	1671	1671		61000115	TYPE E INLET BOX, STANDARD 610001	EACH	2	2	
35600716	HOT-MIX ASPHALT BASE COURSE WIDENING, 10"	SQ YD	294	294		*63000000	STEEL PLATE BEAM GUARD RAIL, TYPE A	FOOT	538	538	
42001165	BRIDGE APPROACH PAVEMENT	SQ YD	224	224		*63100085	TRAFFIC BARRIER TERMINAL, TYPE 6	EACH	4	4	
42001430	BRIDGE APPROACH PAVEMENT CONNECTOR (FLEXIBLE)	SQ YD	43	43		*63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	4	4	
44000100	PAVEMENT REMOVAL	SQ YD	226	226		63200310	GUARDRAIL REMOVAL	FOOT	598	598	
44004250	PAVED SHOULDER REMOVAL	SQ YD	84	84		63301000	REMOVE AND RE-ERECT STEEL PLATE BEAM GUARD RAIL	FOOT	100	100	
48101200	AGGREGATE SHOULDERS, TYPE B	TON	57	57		63302700	REMOVE AND RE-ERECT TRAFFIC BARRIER TERMINAL, TYPE 6	EACH	2	2	
50100100	REMOVAL OF EXISTING STRUCTURES	EACH	1	1		66101150	HOT-MIX ASPHALT SHOULDER CURB	FOOT	30	30	
50104650	SLOPE WALL REMOVAL	SQ YD	1080	1080		67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	9	9	
50200100	STRUCTURE EXCAVATION	CU YD	224	224		67100100	MOBILIZATION	L SUM	1	1	
50300225	CONCRETE STRUCTURES	CU YD	175.2	175.2		70100405	TRAFFIC CONTROL AND PROTECTION, STANDARD 701321	EACH	1	1	
50300255	CONCRETE SUPERSTRUCTURE	CU YD	191.9	191.9		70100500	TRAFFIC CONTROL AND PROTECTION, STANDARD 701326	L SUM	1	1	
50300260	BRIDGE DECK GROOVING	SQ YD	530	530		70106500	TEMPORARY BRIDGE TRAFFIC SIGNALS	EACH	1	1	
50300280	CONCRETE ENCASEMENT	CU YD	8.4	8.4		70106700	TEMPORARY RUMBLE STRIP	EACH	12	12	
50300300	PROTECTIVE COAT	SQ YD	694	694		70300100	SHORT-TERM PAVEMENT MARKING	FOOT	52	52	
50500105	FURNISHING AND ERECTING STRUCTURAL STEEL	L SUM	1	1		70301000	WORK ZONE PAVEMENT MARKING REMOVAL	SQ FT	13	13	
50500505	STUD SHEAR CONNECTORS	EACH	2700	2700		70400100	TEMPORARY CONCRETE BARRIER	FOOT	562.5	562.5	
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	58560	58560		70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	562.5	562.5	
50800515	BAR SPLICERS	EACH	676	676		*78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	903	903	
51201600	FURNISHING STEEL PILES HP12X53	FOOT	1050	1050		*78008210	POLYUREA PAVEMENT MARKING TYPE I - LINE 4"	FOOT	696	696	
51201610	FURNISHING STEEL PILES HP12X63	FOOT	1050	1050		*78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	4	4	
51202305	DRIVING PILES	FOOT	2100	2100		*78100105	RAISED REFLECTIVE PAVEMENT MARKER (BRIDGE)	EACH	3	3	
51203600	TEST PILE STEEL HP12X53	EACH	2	2							
51203610	TEST PILE STEEL HP12X63	EACH	2	2							

*Specialty Items

FILE NAME =	USER NAME = manntm	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SCALE: _____	SHEET NO. OF _____	SHEETS STA. _____	TO STA. _____	F.A.P. RTE. 10	SECTION 410BR-1	COUNTY GREENE	TOTAL SHEETS 37	SHEET NO. 3	
ca:\pwork\PWIDOT\MANN\tdms51659\p1\030008a.dgn		DRAWN -	REVISED -											
		CHECKED -	REVISED -											
		DATE -	REVISED -											

CONTRACT NO. 76B58

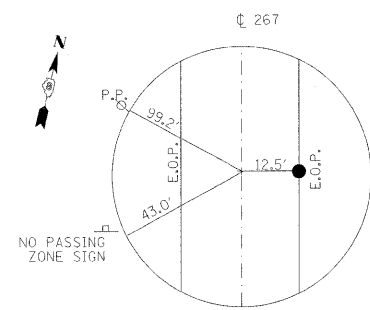
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT

SUMMARY OF QUANTITIES

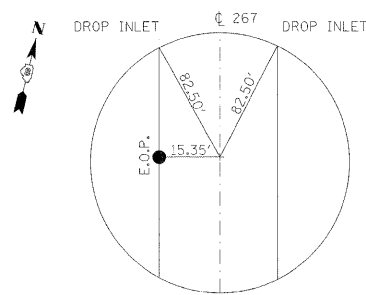
SUMMARY OF QUANTITIES			TOTAL QUANTITIES	CONSTRUCTION TYPE CODE			SUMMARY OF QUANTITIES			TOTAL QUANTITIES	CONSTRUCTION TYPE CODE		
CODE NO	ITEM	UNIT		<i>X071 - 2A 80% FED. 20% STATE</i>			CODE NO	ITEM	UNIT				
*78200200	BIDIRECTIONAL PRISMATIC BARRIER REFLECTOR	EACH	8	8									
*78200410	GUARDRAIL MARKERS, TYPE A	EACH	16	16									
*78201000	TERMINAL MARKER - DIRECT APPLIED	EACH	4	4									
78300100	PAVEMENT MARKING REMOVAL	SQ FT	400	400									
78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	7	7									
X5020501	UNDERWATER STRUCTURE EXCAVATION PROTECTION - LOCATION 1	EACH	1	1									
X5020502	UNDERWATER STRUCTURE EXCAVATION PROTECTION - LOCATION 2	EACH	1	1									
X7200200	WIDE LOAD SIGNING	L SUM	1	1									
Z0030250	IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE), TEST LEVEL 3	EACH	2	2									
Z0030350	IMPACT ATTENUATORS, RELOCATE (NON-REDIRECTIVE), TEST LEVEL 3	EACH	2	2									
©Z0076600	TRAINEES	HOUR	500	500									

©Y000 *Specialty Items

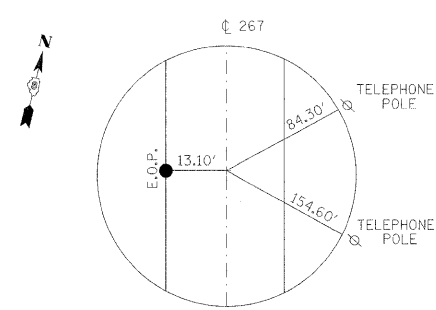
FILE NAME =	USER NAME = manntm	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SCALE:	SHEET NO. OF SHEETS STA. TO STA.	F.A.P. RTE. 10	SECTION 410BR-1	COUNTY GREENE	TOTAL SHEETS 37	SHEET NO. 4
cd:\pw_work\PWIDOT\MANNTM\dms51659\p1n03008a.dgn		DRAWN -	REVISED -								
	PLOT SCALE = 50.0000' / IN.	CHECKED -	REVISED -				FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			
	PLOT DATE = 10/15/2008	DATE -	REVISED -								



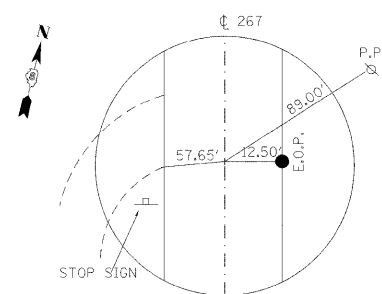
STA. 66+81.70



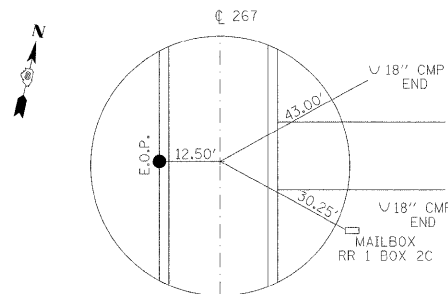
STA. 85+20.00



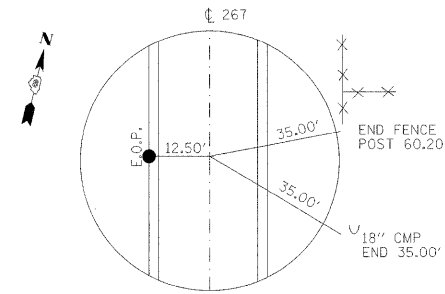
P.C. STA. 96+82.07



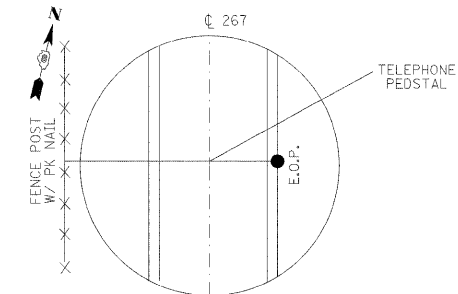
P.C.C. STA. 98+65.00



P.T. STA. 103+00.41



P.T. STA. 110+44.83



STA. 113+22.85

BENCH MARKS

STA. 85+92.00
S.N. 031-0018

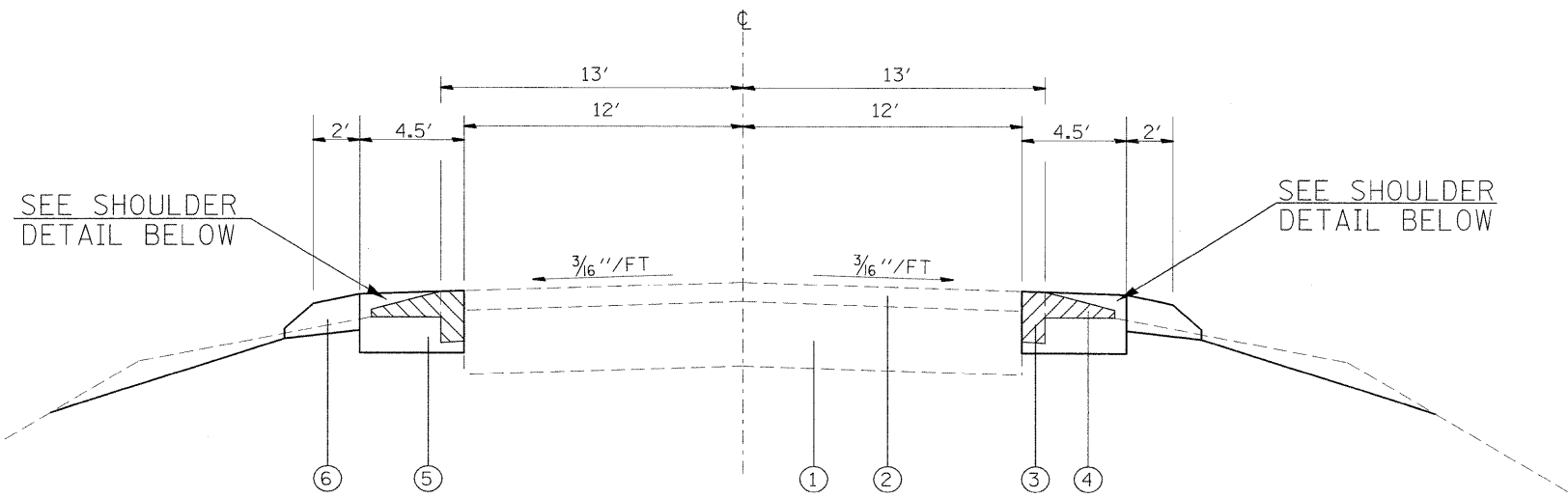
CHLD BOX ON S.E. WINGWALL
ELE. 512.9639

FILE NAME =	USER NAME = manntm	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TIE POINTS & BENCH MARKS				F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
es:\pwork\pwork\manntm\dms51659\pin032008a.dgn		DRAWN -	REVISED -		10	410BR-1	GREENE	37	5				
PLOT SCALE = 20,0000' / IN.		CHECKED -	REVISED -		CONTRACT NO. 76B58								
PLOT DATE = 10/16/2008		DATE -	REVISED -		SCALE:	SHEET NO.	OF	SHEETS	STA.	TO STA.	FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT	

LEGEND

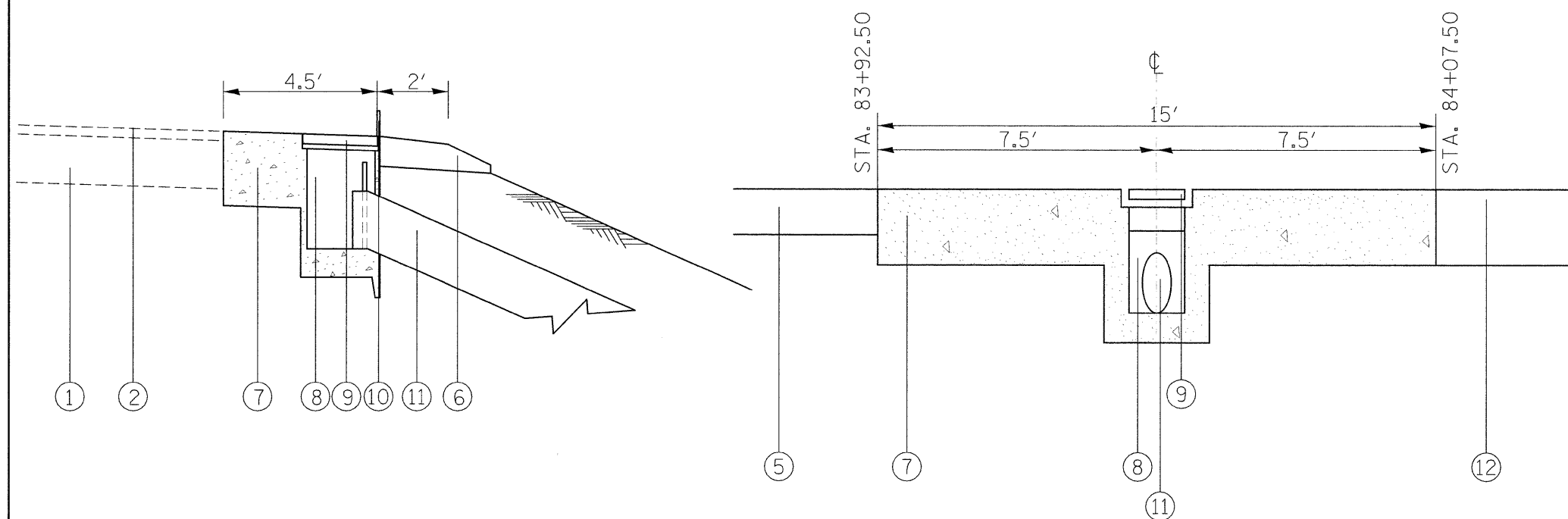
- ① EXISTING PCC PAVEMENT-10"
- ② EXISTING RESURFACING-3"
- ③ EXISTING BITUMINOUS SHOULDER-8"
- ④ EXISTING AGGREGATE SHOULDER WEDGE
- ⑤ PROPOSED HOT-MIX ASPHALT BASE COURSE WIDENING - 10"
- ⑥ PROPOSED AGGREGATE SHOULDER TYPE B- 6"
- ⑦ PROPOSED PCC SLAB (INCLUDED IN THE COST OF TY E INLET BOX, STD. 610001
- ⑧ PROPOSED TYPE E INLET BOX, STD. 610001
- ⑨ PROPOSED 0-0 GRATING FRAME
- ⑩ PROPOSED HOT-MIX ASPHALT SHOULDER CURB
- ⑪ PROPOSED PIPE DRAIN-12"
- ⑫ PROPOSED BRIDGE APPROACH PAVEMENT CONNECTOR

 PROPOSED REMOVAL



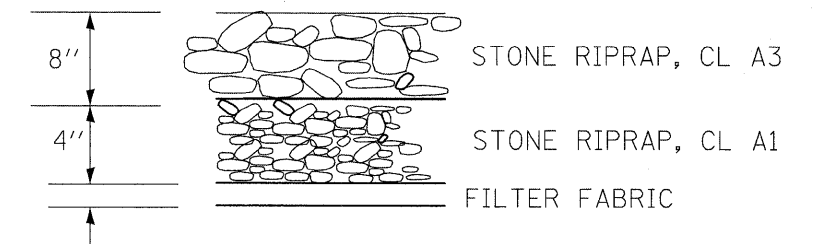
TYPICAL SECTION

STA. 82+55.00 TO STA. 84+07.50
 STA. 86+33.50 TO STA. 87+75.00



SHOULDER DETAIL (SHOULDER INLET W/ CURB)
 SEE STANDARDS 610001 FOR DIMENSIONS AND MORE DETAILS

STA. 83+92.50 TO STA. 84+07.50



DETAIL OF STONE RIPRAP FOR METAL END SECTIONS-12"

FILE NAME =	USER NAME = manntm	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TYPICAL SECTIONS				F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
ca:\p\work\psidot\manntm\dms51659\p1n03000a.dgn	PLOT SCALE = 50.0000' / IN.	DRAWN -	REVISED -						10	410BR-1	GREENE	37	6
	PLOT DATE = 10/16/2008	CHECKED -	REVISED -		CONTRACT NO. 76B58				FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				
		DATE -	REVISED -		SCALE:	SHEET NO.	OF	SHEETS	STA.	TO STA.			

EARTHWORK SCHEDULE						
STATION	TO	STATION	UNADJUSTED EXCAVATION (CU YD)	EXCAVATION ADJUSTED FOR SHINKAGE (CU YD)	EMBANKMENT (CU YD)	EARTHWORK BALANCE WASTE (+) OR SHORTAGE (-) (CU YD)
82+50.00	TO	82+75.00	6.0	4.5	8.7	-4.2
82+75.00	TO	83+00.00	25.9	19.4	10.3	9.1
83+00.00	TO	83+50.00	66.7	50.0	5.8	44.2
83+50.00	TO	84+00.00	40.4	30.3	6.6	23.7
84+00.00	TO	84+25.00	21.5	16.1	5.4	10.7
84+25.00	TO	84+43.50	10.9	8.2	2.6	5.6
85+97.50	TO	86+00.00	1.6	1.2	0.1	1.1
86+00.00	TO	86+50.00	46.5	34.9	1.8	33.1
86+50.00	TO	87+00.00	28.3	21.2	0	21.2
87+00.00	TO	87+50.00	34.7	26.0	0	26.0
87+50.00	TO	88+00.00	20.4	15.3	0	15.3
TOTAL =			302.9	227.1	41.3	185.8
ROUNDED TOTAL =			305	225	40	185

SEEDING CLASS 2 SCHEDULE							
STATION	TO	STATION	SEEDING CLASS 2 (ACRE)	MULCH METHOD 1 (ACRE)	NITROGEN FERTILIZER NUTRIENT (POUND)	PHOSPHOROUS FERTILIZER NUTRIENT (POUND)	POTASSIUM FERTILIZER NUTRIENT (POUND)
82+50.00	TO	82+75.00	0.01	0.01	0.87	0.87	0.87
82+75.00	TO	83+00.00	0.02	0.02	2.24	2.24	2.24
83+00.00	TO	83+50.00	0.05	0.05	4.71	4.71	4.71
83+50.00	TO	84+00.00	0.07	0.07	6.22	6.22	6.22
84+00.00	TO	84+25.00	0.03	0.03	2.40	2.40	2.40
84+25.00	TO	84+43.50	0.00	0.00	0.21	0.21	0.21
84+43.50	TO	85+97.50	0.00	0.00	0.00	0.00	0.00
85+97.50	TO	86+00.00	0.00	0.00	0.00	0.00	0.00
86+00.00	TO	86+50.00	0.01	0.01	1.15	1.15	1.15
86+50.00	TO	87+00.00	0.01	0.01	1.17	1.17	1.17
87+00.00	TO	87+50.00	0.02	0.02	1.99	1.99	1.99
87+50.00	TO	88+00.00	0.02	0.02	1.38	1.38	1.38
TOTAL			0.25	0.25	22.4	22.4	22.4
ROUNDED TOTAL			0.25	0.25	25	25	25

GUARDRAIL SCHEDULE							
STATION	LT/RT OFFSET	GUARDRAIL REMOVAL (FEET)	SPBGR TYPE A (FEET)	TBT TY 6 (EACH)	TBT TY 1 (SPECIAL) (EACH)	GUARDRAIL MARKERS TYPE A (EACH)	TERMINAL MARKER DIRECT APPL. (EACH)
80+87.25	TO 81+37.25	RT			1	1	1
81+37.25	TO 83+99.75	RT	166.5	262.5		2	
83+99.75	TO 84+43.50	RT	53.5		1	1	
85+97.50	TO 86+41.25	RT			1	2	
86+41.25	TO 86+91.25	RT				2	1
82+90.00	TO 83+49.75	LT	53.4				
83+49.75	TO 83+99.75	LT	52.0		1	2	1
83+99.75	TO 84+43.50	LT	52.6		1	2	
85+97.50	TO 86+41.25	LT	53.5		1	1	
86+41.25	TO 89+16.25	LT	166.5	275.0		2	
89+16.25	TO 89+66.25	LT				1	1
TOTAL			598	538	4	4	16

PAVING SCHEDULE							
STATION	TO	STATION	BITUMINOUS BASE CSE WIDENING - 10" (SQ YDS)	AGGREGATE SHOULDER, TYPE B (TON)	PCC SLAB *(NMFP) (SQ YDS)	BRIDGE APPR. PAVT. CONNECTOR FLEXIBLE (SQ YDS)	BRIDGE APPROACH PAVEMENT (SQ YDS)
82+55.00	TO	83+92.50	137.5	21.4			
83+92.50	TO	84+07.50	15.0	2.3	15.0		
84+07.50	TO	84+13.50		0.9		21.3	
84+13.50	TO	84+43.50		4.7			106.7
85+97.50	TO	86+27.50		4.7			106.7
86+27.50	TO	86+33.50		0.9		21.3	
86+33.50	TO	87+75.00	141.5	22.0			
TOTAL			294.0	57.0	15.0	43.0	214.0

*NMFP= NOT MEASURED FOR PAYMENT, INCLUDED IN THE COST OF INLET TY B, STD 609006 (SEE INLET, TYPE B SCHEDULE)

INLET TYPE E, STANDARD 610001									
STATION	OFFSET LT/RT (FEET)	INLET, TY B STANDARD 610001 (EACH)	PIPE DRAINS-12" (FEET)	METAL END SECTION - 24" (EACH)	CONCRETE THRUST BOX (EACH)	HMA SHOULDER CURB (FEET)	STONE RIPRAP CLASS A3-8" (SQ YDS)	*STONE RIPRAP CLASS A1-4" (SQ YDS)	FILTER FABRIC (SQ YDS)
84+00	16.5' TO 52.3' LT	1	43.0	1	1	15	6	6	6
84+00	16.5' TO 49.3' RT	1	35.0	1	1	15	4	4	4
TOTAL		2	78.0	2	2	30	10	10	10

*STONE RIPRAP CLASS A1 USED AS BEDDING MATERIAL FOR STONE RIPRAP CLASS A3 (SEE DETAIL)

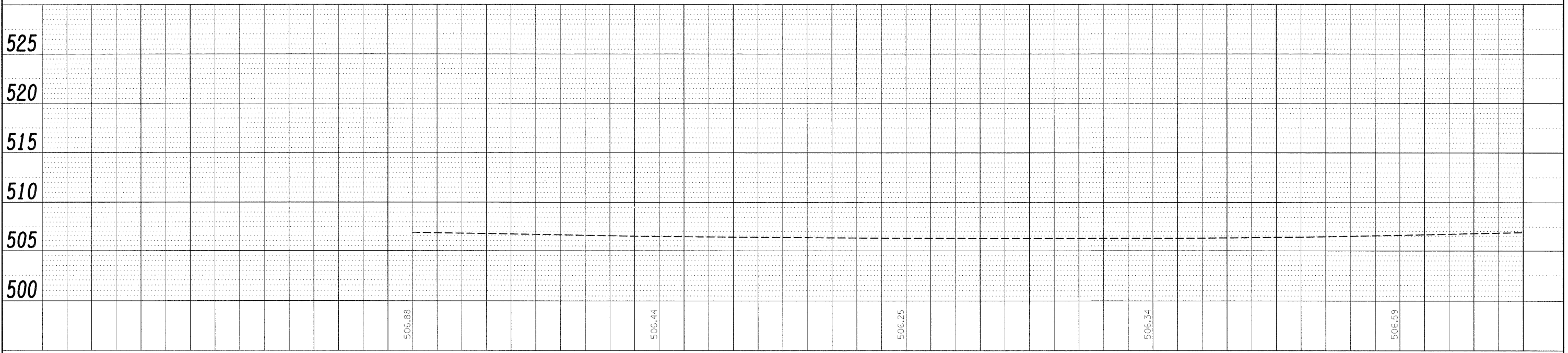
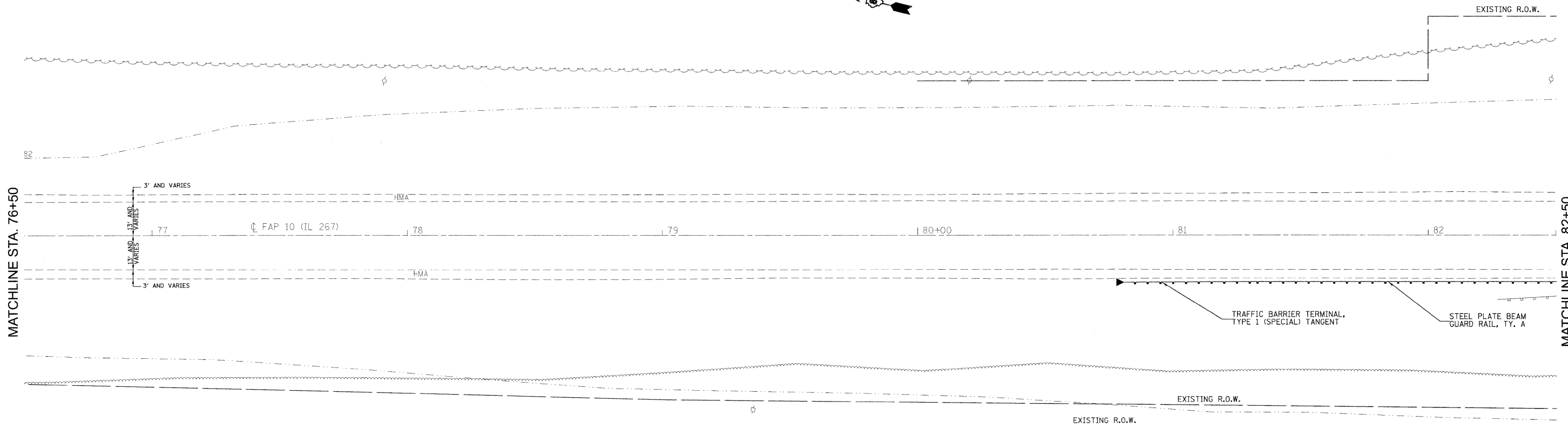
REMOVAL SCHEDULE					
STATION TO	STATION	REMOVING INLETS (EACH)	PAVEMENT REMOVAL (SQ YDS)	BITUMINOUS SHOULDER REMOVAL (SQ YDS)	
				LEFT	RIGHT
82+55.00	TO 83+92.50			15.3	15.3
83+92.50	TO 84+07.50		15.0	1.7	1.7
84+07.50	TO 84+46.50	3 @ STA. 84+39.98	104.0	4.3	4.3
85+93.50	TO 86+33.50		106.7	4.4	4.4
86+33.50	TO 87+75.00			15.7	15.7
TOTAL		3	226.0	84.0	

PAVEMENT MARKING SCHEDULE														
STATION			THERMOPLASTIC PAVEMENT MARKING LINE - 4" (FOOT)			POLYUREA PAVEMENT MARKING LINE - 4" (FOOT)			SHORT PAVEMENT MARKING (FOOT)	RAISED RELECTIVE PAVEMENT MARKERS (EACH)	RAISED RELECTIVE PAVT. MRKS. (BRIDGE) (EACH)	RAISED RELECTIVE PAVT. MRK. REMOVAL (EACH)	PAVEMENT MARKING REMOVAL (SQ FT)	WORK ZONE PAVEMENT MARKING REM. (SQ FT)
			SOLID WHITE	SKIP DASH YELLOW	SOLID YELLOW	SOLID WHITE	SKIP DASH YELLOW	SOLID YELLOW						
82+55.00	TO	83+47.00	184	23				9.2	1		1	52	2.3	
83+47.00	TO	84+13.50	133	17	67			6.7	1		1	54	1.7	
84+13.50	TO	86+27.50				428	54	214	21.4		3	174	5.4	
86+27.50	TO	87+75.00	295	37	148			14.8	2		2	120	3.7	
SUBTOTAL			612	77	214	428	54	214	52.0	4	3	400	13.0	
TOTAL			903			696			52.0	4	3	5	400	13.0

GUARDRAIL REMOVAL AND RE-ERECTION SCHEDULE			
STATION TO	STATION	REMOVE & RE-ERECT TBT-TY 6 (EACH)	REMOVE & REERECT SPBGR (FT)
83+62.525	TO 84+12.525		50
84+12.525	TO 84+46.90	1	
85+92.50	TO 86+26.875	1	
86+26.875	TO 86+76.875		50
TOTAL		2	100

PLAN
 DESIGNED
 CHECKED
 PLOTTED
 ALIGNMENT
 CHECKED
 NO. _____
 DATE _____
 BY _____
 NOTE BOOK
 NO. _____
 ADD FILE NAME

PROFILE
 DESIGNED
 CHECKED
 GRADES
 CHECKED
 PLOTTED
 PROFILE
 INITIATING
 CHKD
 NO. _____
 DATE _____
 BY _____

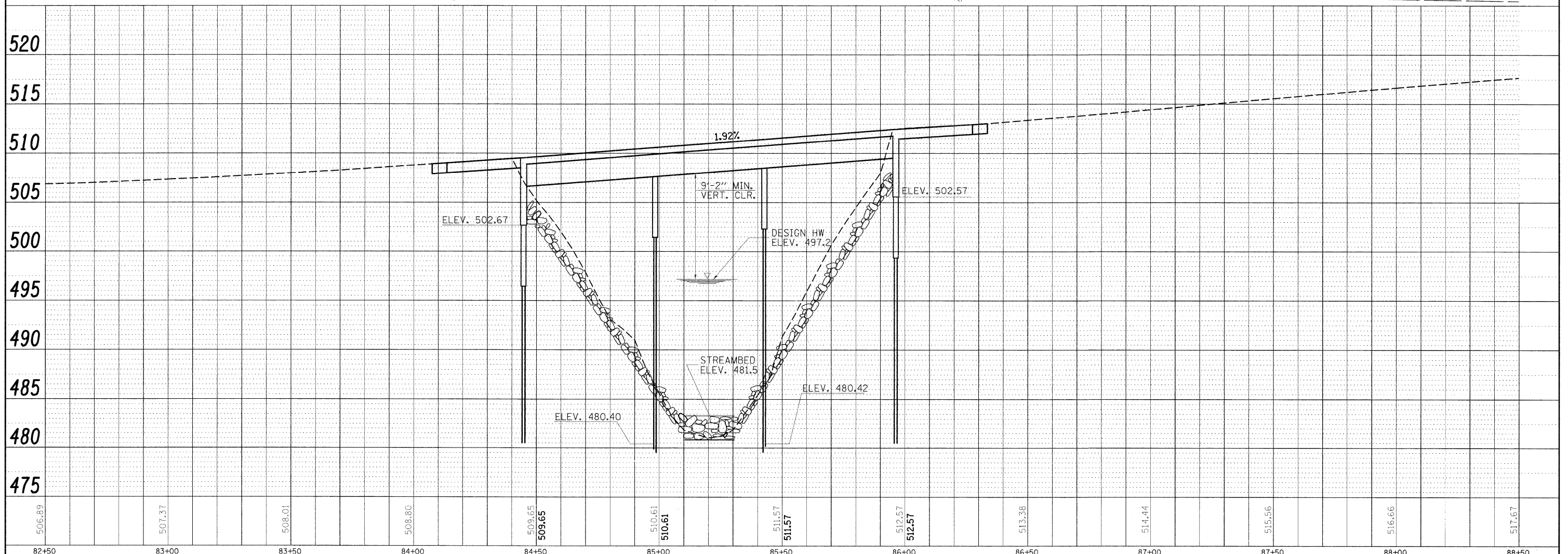
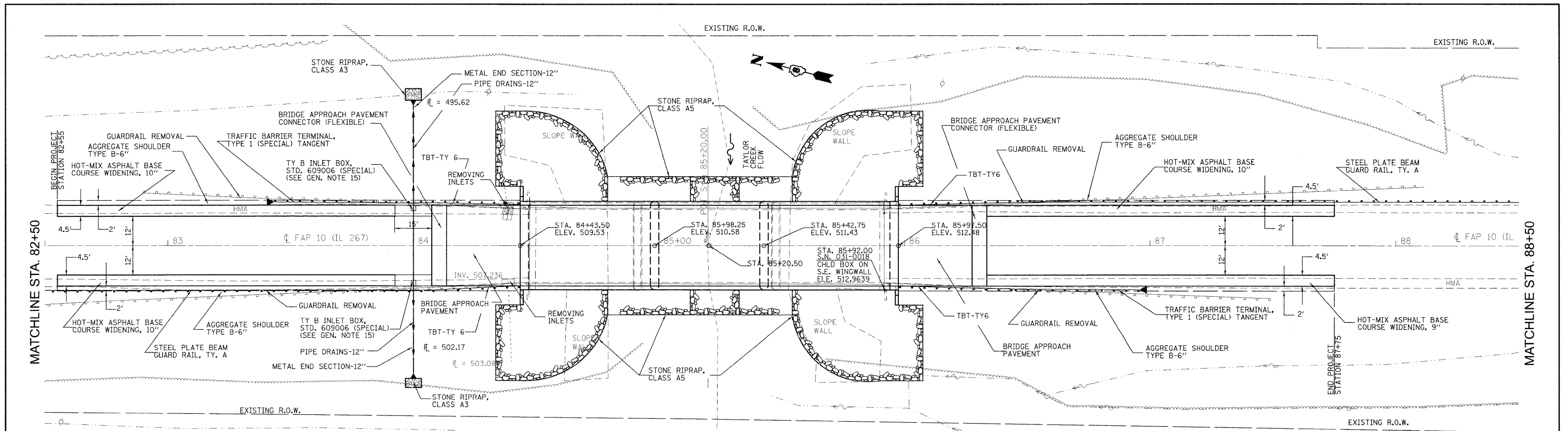


FILE NAME =	USER NAME = manntm	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PLAN VIEW			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.			
c:\pwork\pwork\manntm\dms51659\p1n03008	8a.dgn	CHECKED -	REVISED -		SCALE: 20 = 1"	SHEET NO.	OF	SHEETS	STA.	TO STA.	10	410BR-1	GREENE	37	8
		DRAWN -	REVISED -												
		CHECKED -	REVISED -												

FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT
 CONTRACT NO. 76B58

PLAN	DESIGNED	DATE
	PLOTTED	
	GRADES CHECKED	
	ALIGNMENT CHECKED	
	NOTE BOOK	
	NO.	
	BY	
	DATE	

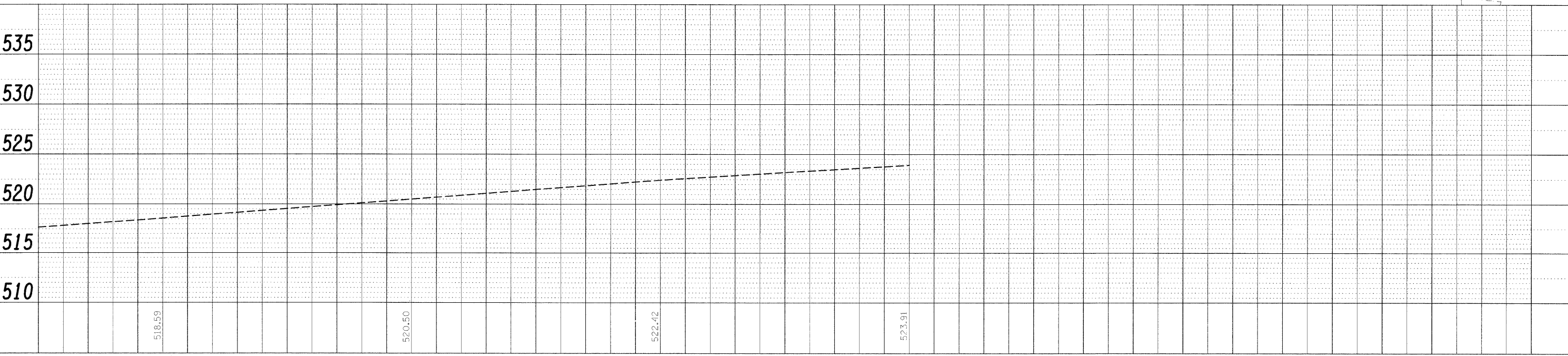
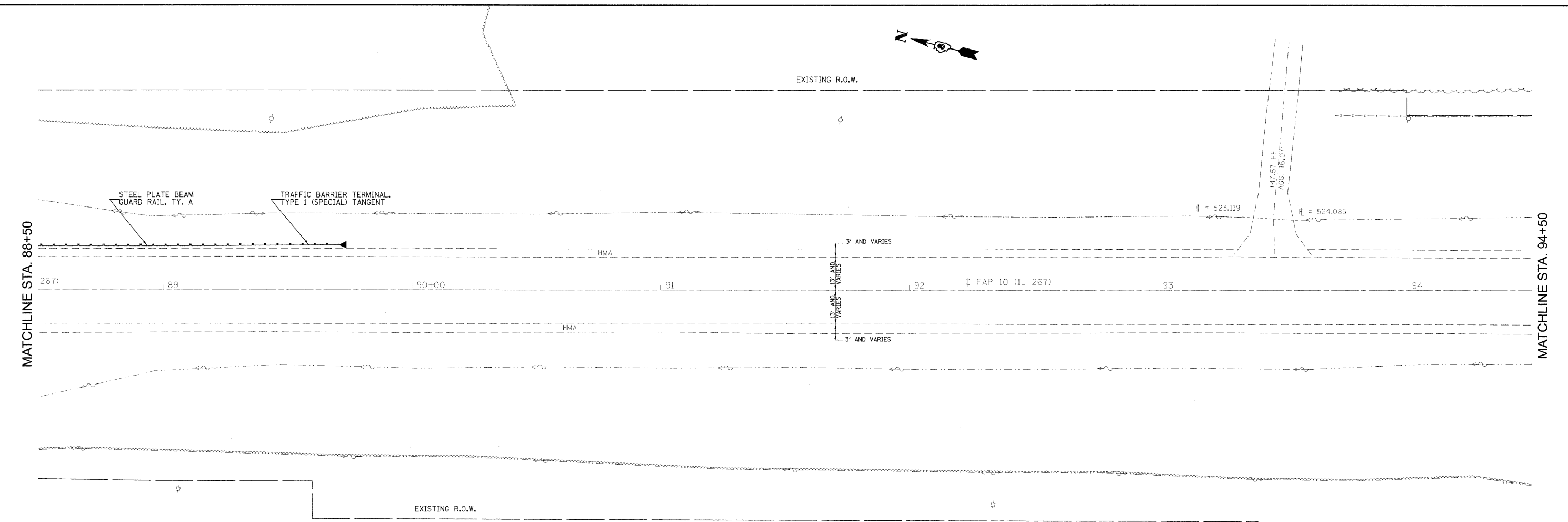
PROFILE	DESIGNED	DATE
	PLOTTED	
	GRADES CHECKED	
	ALIGNMENT CHECKED	
	NOTE BOOK	
	NO.	
	BY	
	DATE	



FILE NAME =	USER NAME = manntm	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PLAN VIEW	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
ct:\p\work\p\wdot\manntm\cass51659\p1-03008a.dgn		CHECKED -	REVISED -			10	410BR-1	GREENE	37	9	
PLOT SCALE = 20.0000' / IN.		DRAWN -	REVISED -			CONTRACT NO. 76B58					
PLOT DATE = 10/16/2009		CHECKED -	REVISED -			FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT					

PLAN	DESIGNED	BY	DATE
	PLOTTED		
	ALIGNMENT CHECKED		
	NOTE BOOK NO.		
	FILE NAME		

PROFILE	DESIGNED	BY	DATE
	PLOTTED		
	GRADES CHECKED		
	NOTE BOOK NO.		
	STRUCTURE NOTATIONS CHECKED		



FILE NAME =	USER NAME =	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION				PLAN VIEW				F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
cc:\p\work\p\widot\m\mntm\dms51659\p1n03008.dgn		CHECKED -	REVISED -									10	410BR-1	GREENE	42	10
		DRAWN -	REVISED -	SCALE: 20 = 1" SHEET NO. OF SHEETS STA. TO STA.				CONTRACT NO. 76B58				FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				
		CHECKED -	REVISED -													

PRESTAGE CONSTRUCTION

- PRESTAGE CONSTRUCTION SHALL CONSIST OF REMOVAL OF THE EXISTING 1' BITUMINOUS SHOULDER AND 3' AGGREGATE SHOULDER IN ACCORDANCE WITH SECTION 440 OF THE STANDARD SPECIFICATIONS, REMOVING AND REERECTING EXISTING GUARDRAIL NECESSARY FOR WIDENING ACCORDING TO THE SCHEDULE IN THE PLANS, AND CONSTRUCTION OF THE 4.5' WIDENING ON THE EAST SIDE OF THE PAVEMENT FOR STAGE 1 TRAFFIC.
- THE PROPOSED WIDENING SHALL INCLUDE PLACING EARTH EXCAVATION AGAINST WIDENING TO DRAIN. THE WIDENING SHALL CONSIST OF HOT-MIX ASPHALT BASE COURSE WIDENING-10".
- TRAFFIC CONTROL FOR THIS WORK SHALL BE IN ACCORDANCE WITH THE APPLICABLE PORTIONS OF TRAFFIC CONTROL AND PROTECTION, STANDARD 701326. ONE LANE OF TRAFFIC IN BOTH DIRECTIONS SHALL BE OPEN TO TRAFFIC AT ALL TIMES DURING THE PRESTAGE CONSTRUCTION.

STAGE 1 CONSTRUCTION

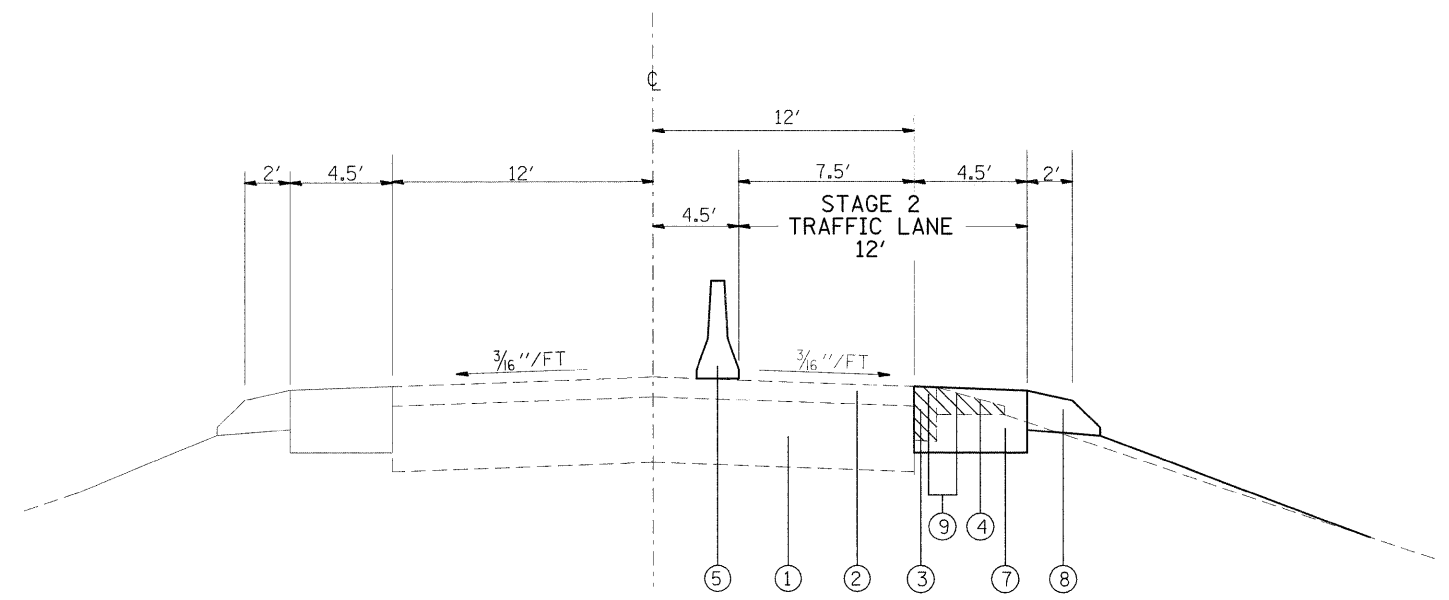
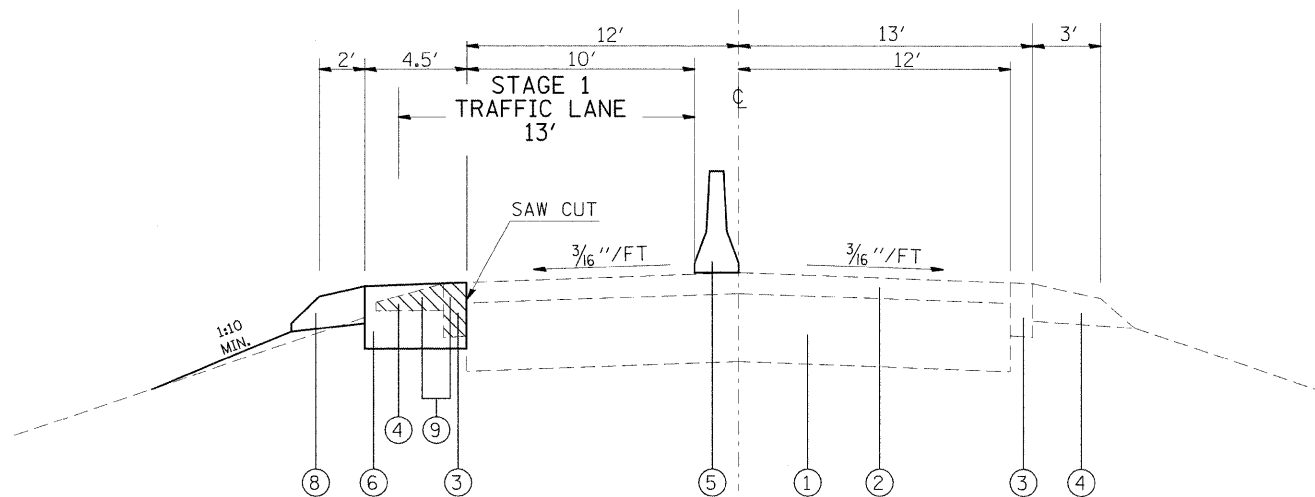
- STAGE 1 CONSTRUCTION SHALL CONSIST OF REMOVING THE EXISTING 1' BITUMINOUS SHOULDER AND 3' AGGREGATE SHOULDER, AND CONSTRUCTION OF THE 4.5' WIDENING ON THE WEST SIDE OF THE PAVEMENT FOR STAGE 2 TRAFFIC, REMOVAL OF THE EXISTING PAVEMENT NECESSARY FOR THE CONSTRUCTION OF THE PROPOSED STRUCTURE, STAGE 1 REMOVAL OF THE EXISTING STRUCTURE, STAGE 1 CONSTRUCTION OF THE PROPOSED STRUCTURE AND PLACEMENT OF THE RIPRAP WEST OF THE STRUCTURE TO THE LIMITS SHOWN IN THE PLANS.
- REMOVAL OF THE EXISTING BITUMINOUS AND AGGREGATE SHOULDERS SHALL BE DONE IN ACCORDANCE WITH SECTION 440 OF THE STANDARD SPECIFICATIONS.
- THE PROPOSED WIDENING SHALL INCLUDE PLACING EARTH EXCAVATION AGAINST WIDENING TO DRAIN. THE WIDENING SHALL CONSISTS OF HOT-MIX ASPHALT BASE COURSE WIDENING-10".
- TRAFFIC CONTROL FOR STAGE 1 SHALL BE IN ACCORDANCE WITH THE APPLICABLE PORTIONS OF STANDARD 701321. ANY ADDITIONAL SIGNING OR TRAFFIC CONTROL DEVICES SHOWN IN THE STAGE CONSTRUCTION PLANS SHALL BE CONSIDERED AS INCLUDED IN THE COST OF TRAFFIC CONTROL AND PROTECTION 701321.

STAGE 2 CONSTRUCTION

- STAGE 2 CONSTRUCTION SHALL CONSIST OF REMOVAL OF THE EXISTING PAVEMENT NECESSARY FOR THE CONSTRUCTION OF THE PROPOSED STRUCTURE, STAGE 2 REMOVAL OF THE EXISTING STRUCTURE, STAGE 2 CONSTRUCTION OF THE PROPOSED STRUCTURE AND PLACEMENT OF THE RIPRAP TO THE LIMITS SHOWN IN THE PLANS. STAGE 2 REMOVAL AND CONSTRUCTION OF THE STRUCTURE SHALL BE DONE ACCORDING TO THE STAGE CONSTRUCTION AS DETAILED IN THE PLANS.
- THE PROPOSED WIDENING SHALL CONSIST OF HOT-MIX ASPHALT BASE COURSE WIDENING-10".
- TRAFFIC CONTROL FOR STAGE 2 SHALL BE IN ACCORDANCE WITH THE APPLICABLE PORTIONS OF STANDARD 701321. ANY ADDITIONAL SIGNING OR TRAFFIC CONTROL DEVICES SHOWN IN THE STAGE CONSTRUCTION PLANS SHALL BE CONSIDERED AS INCLUDED IN THE COST OF TRAFFIC CONTROL AND PROTECTION 701321.

NOTES:

- THE BOTTOM 6" OF THE TEMPORARY CONCRETE BARRIER SHALL BE PAINTED WITH TEMPORARY PAVEMENT MARKING "YELLOW". THE COST FOR THIS SHALL BE CONSIDERED AS INCLUDED IN THE COST OF TEMPORARY CONCRETE BARRIER.
- ALL CONFLICTING PAVEMENT MARKING SHALL BE REMOVED PRIOR TO PLACING PAVEMENT MARKING NECESSARY FOR STAGE CONSTRUCTION. THE COST FOR THIS SHALL BE INCLUDED IN THE APPLICABLE TRAFFIC CONTROL AND PROTECTION STANDARD.
- THE TEMPORARY BRIDGE SIGNALS SHOWN ON THE PLANS SHALL BE CONSIDERED AS 1 EACH PER INSTALLATION.
- IF THE CONTRACTOR CHOOSES THE OPTION OF SAND MODULE IMPACT ATTENUATORS THEN THE LAYOUT SHOWN BELOW SHOULD BE USED.
- THIS PROJECT WILL REQUIRE TEMPORARY RUMBLE STRIP.

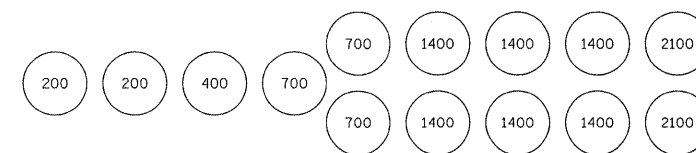


STAGE 1 TRAFFIC

STAGE 2 TRAFFIC

LEGEND

- ① EXISTING PCC PAVEMENT
- ② EXISTING RESURFACING
- ③ EXISTING BITUMINOUS SHOULDER
- ④ EXISTING AGGREGATE SHOULDER
- ⑤ TEMPORARY CONCRETE BARRIER
- ⑥ PROPOSED WIDENING - PRESTAGE 1 CONSTRUCTION- 10"
- ⑦ PROPOSED WIDENING - STAGE 1 CONSTRUCTION- 10"
- ⑧ PROPOSED AGGREGATE SHOULDER - 6"
- ⑨ PROPOSED BITUMINOUS AND AGGREGATE SHOULDER REMOVAL

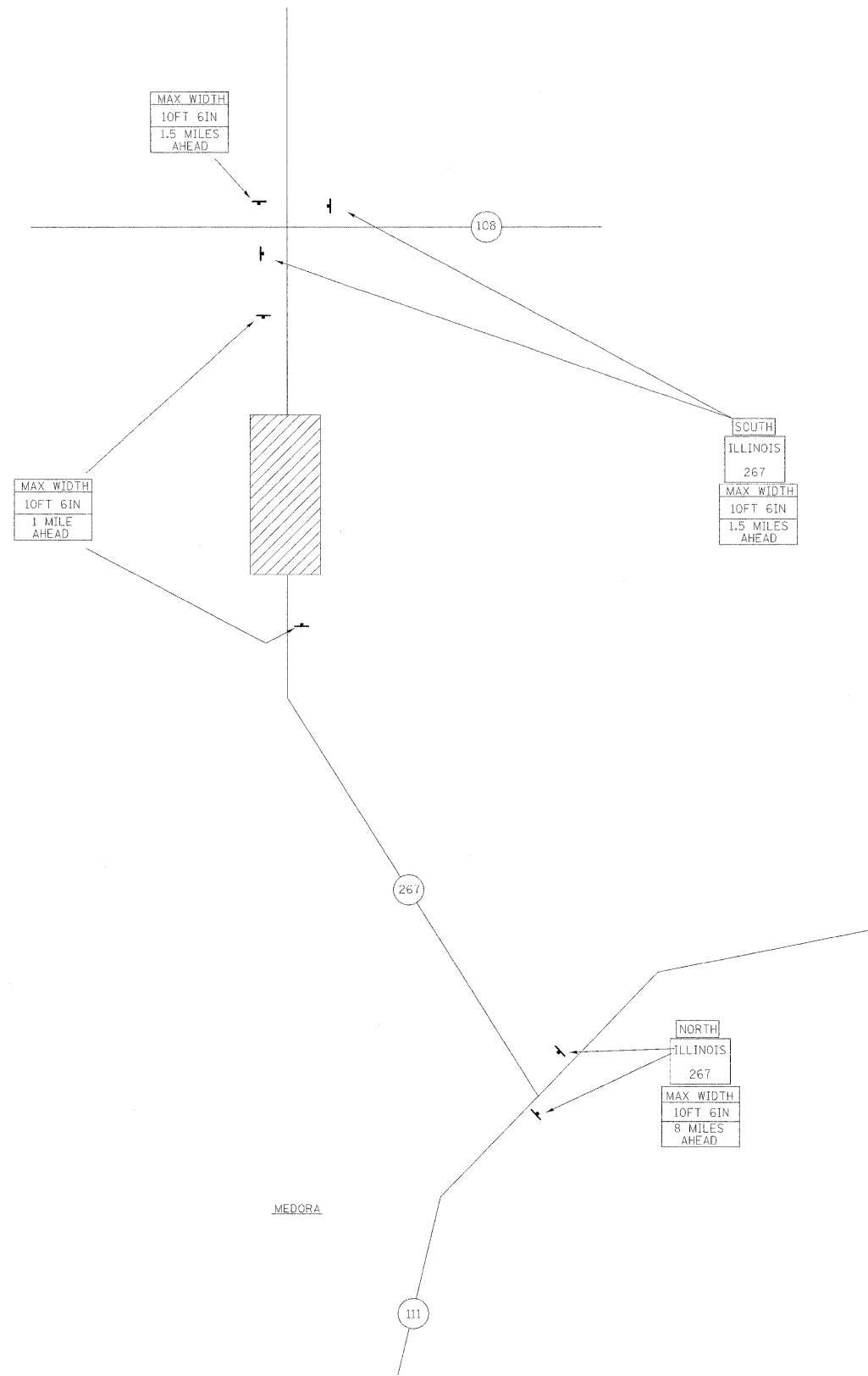


**SAND MODULE IMPACT ATTENUATOR LAYOUT
(IF OPTION USED)**

FILE NAME =	USER NAME = manntm	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	STAGE 1 CONSTRUCTION			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
oi:\pw\work\pilot\manntm\dms51659\p1n83008a.dgn		DRAWN -	REVISED -					10	410BR-1	GREENE	37	11
PLOT SCALE = 20.0000' / IN.		CHECKED -	REVISED -		CONTRACT NO. 76B58							
PLOT DATE = 10/16/2008		DATE -	REVISED -		SCALE: 20 = 1"	SHEET NO. OF SHEETS	STA. 70+50 TO STA. 76+50	FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			

NOTES

1. ALL SIGNS REQUIRED WILL BE SUPPLIED TO THE CONTRACTOR BY I.D.O.T.
2. THE CONTRACTOR SHALL FURNISH THE POSTS AND ERECT SIGNS AT THE LOCATION SHOWN ON THIS SHEET, AS DIRECTED BY THE RE/RT. THE POSTS SHALL REMAIN THE PROPERTY OF THE CONTRACTOR.
3. THE CONTRACTOR SHALL THE GIVE ILLINOIS DEPARTMENT OF TRANSPORTATION, BUREAU OF OPERATIONS A TWO WEEK NOTICE FOR SIGNS. THE CONTRACTOR SHALL PICK UP THE SIGNS AT THE TM BUILDING IN FAIRVIEW HEIGHTS, AND RETURN THEM UPON COMPLETION OF THE CONTRACT. CONTACT JEAN SLAPE 618-346-3289.
4. THE ABOVE NOTED WORK SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE. "LUMP SUM" FOR "WIDE LOADING SIGNING" AND NO OTHER COMPENSATION WILL BE ALLOWED.
5. SIGN SPACING WILL BE 400' OR TO FIT FIELD CONDITIONS.
6. THE HEIGHT TO THE BOTTOM OF THE LOWEST SIGN SHALL NOT BE LESS THAN 6'.

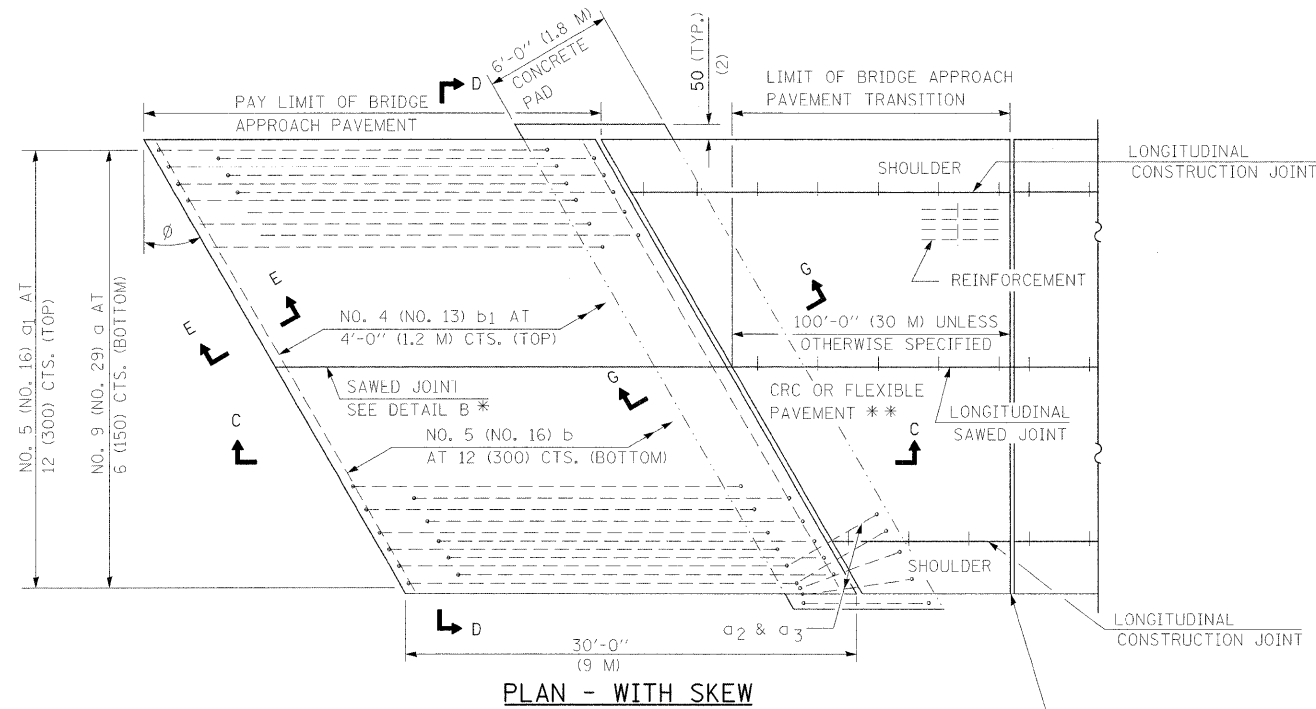


SIGNS REQUIRED

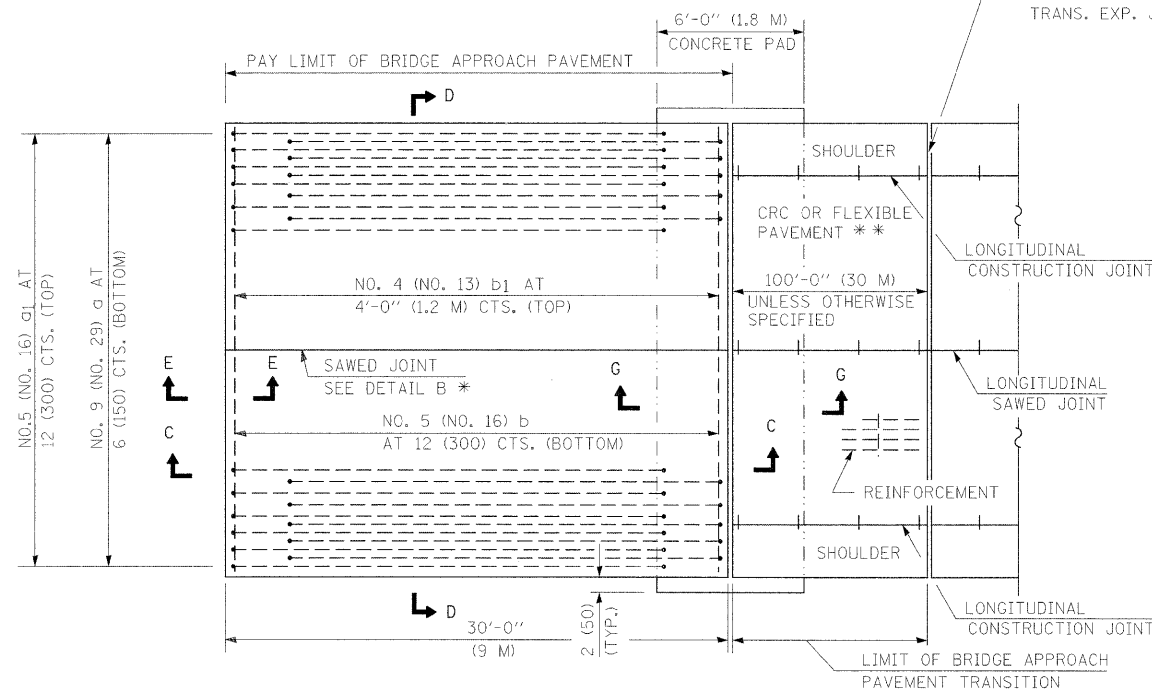
MAX WIDTH 10FT 6IN 1 MILE AHEAD	(2)	NORTH	(2)
MAX WIDTH 10FT 6IN 1.5 MILES AHEAD	(3)	SOUTH	(2)
MAX WIDTH 10FT 6IN 8 MILES AHEAD	(2)	ILLINOIS	(4)
		267	

FILE NAME =	USER NAME = manntm	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	WIDE LOAD SIGNING			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
c:\pwork\pwork\manntm\dms51659\p1n03000a.dgn		DRAWN -	REVISED -					10	410BR-1	GREENE	37	12
PLOT SCALE = 20,0000' / IN.		CHECKED -	REVISED -					CONTRACT NO. 76B58				
PLOT DATE = 10/16/2008		DATE -	REVISED -					ILLINOIS FED. AID PROJECT				
				SCALE:	SHEET NO.	OF	SHEETS	STA.	TO STA.			

NEW CONSTRUCTION



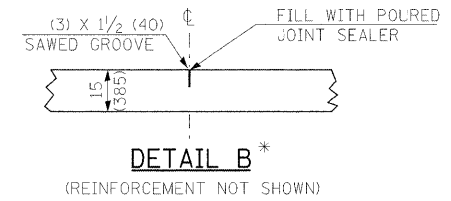
PLAN - WITH SKEW



PLAN - WITHOUT SKEW

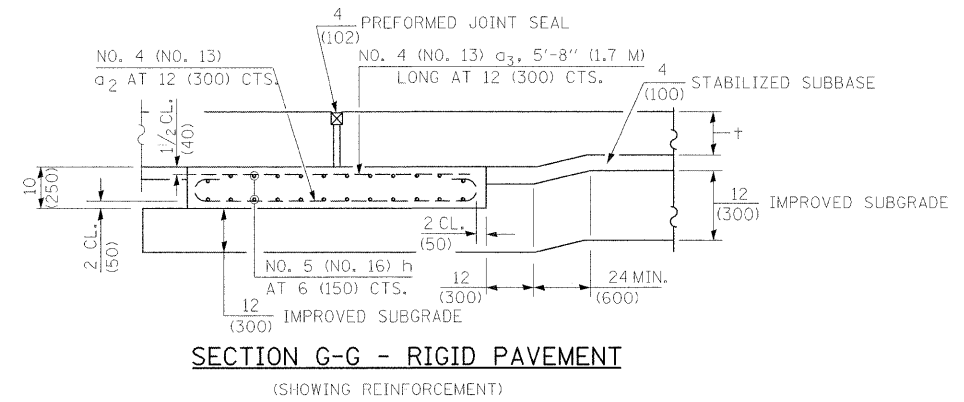
* SAW ϕ OR LANE EDGE IF POURED TWO OR MORE LANE WIDTHS AT A TIME.
 ** OMIT REINFORCEMENT, TIE BARS AND LONG. SAWED JT. FOR FLEXIBLE PAVEMENT.

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.



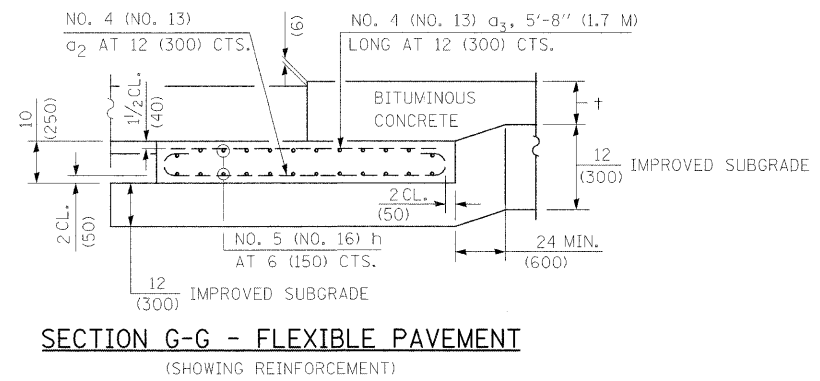
DETAIL B*

(REINFORCEMENT NOT SHOWN)



SECTION G-G - RIGID PAVEMENT

(SHOWING REINFORCEMENT)



SECTION G-G - FLEXIBLE PAVEMENT

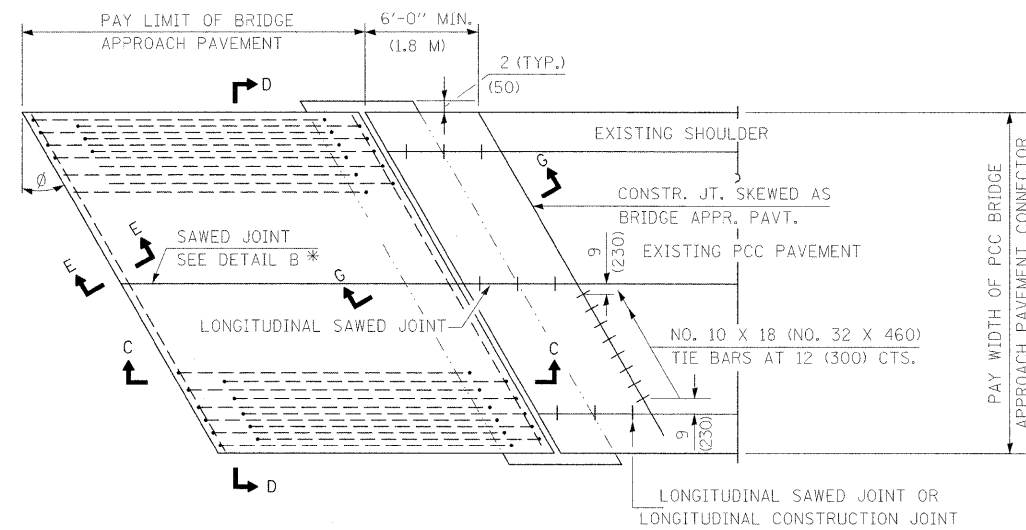
(SHOWING REINFORCEMENT)

GENERAL NOTES

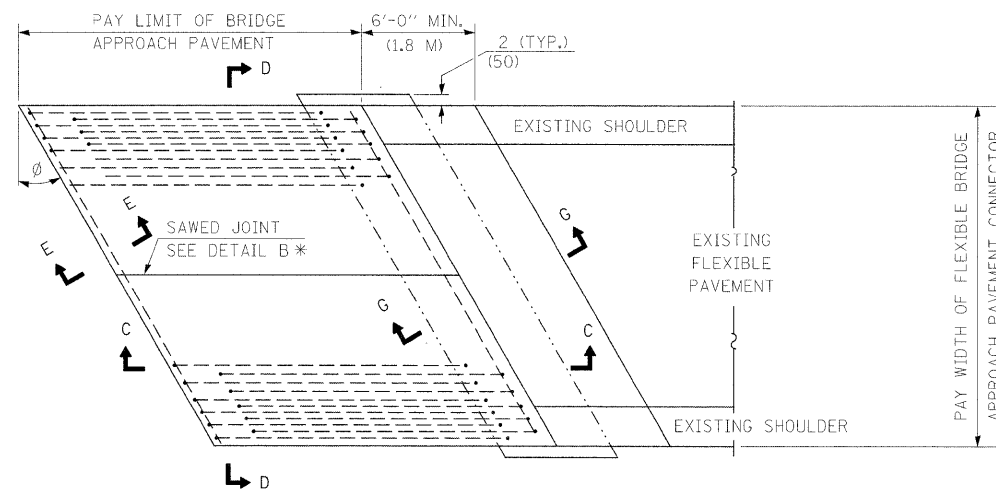
THICKNESS-"+"=THICKNESS OF PAVEMENT.
 SEE STANDARD 421001 FOR REINFORCEMENT DETAILS NOT SHOWN.
 SEE STANDARD 420001 FOR JOINT DETAILS NOT SHOWN.
 ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

FILE NAME =	USER NAME = manntm	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	BRIDGE APPROACH PAVEMENT DETAIL	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
es:\pwork\pwork\manntm\dms51859\p1n02088.dgn		DRAWN -	REVISED -			10	410BR-1	GREENE	37	12A
PLOT SCALE = 20.0000 "/ IN.		CHECKED -	REVISED -			CONTRACT NO. 76B58				
PLOT DATE = 10/16/2008		DATE -	REVISED -			FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				
SCALE:						SHEET NO. 1 OF 4 SHEETS	STA.	TO STA.		

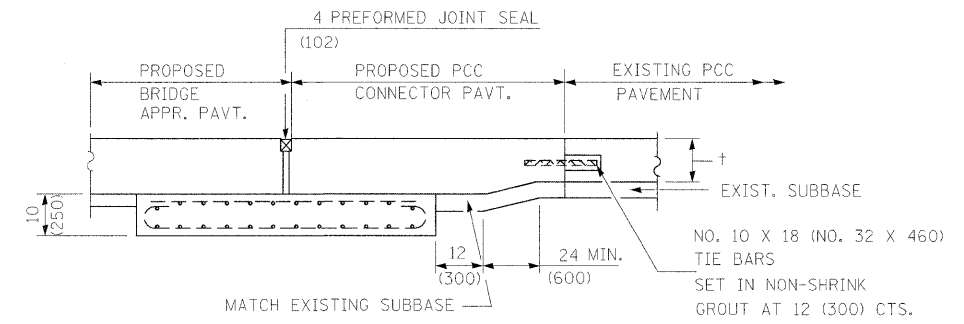
EXISTING CONSTRUCTION



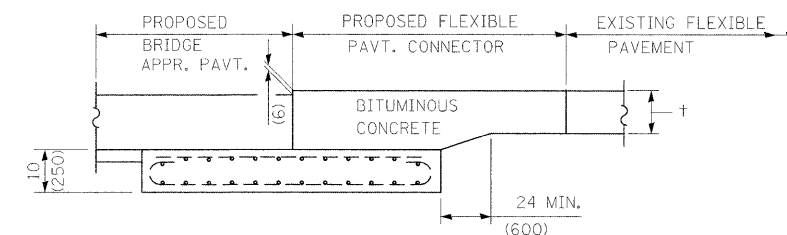
BRIDGE APPROACH PAVEMENT CONNECTOR (PCC)



BRIDGE APPROACH PAVEMENT CONNECTOR (FLEXIBLE)

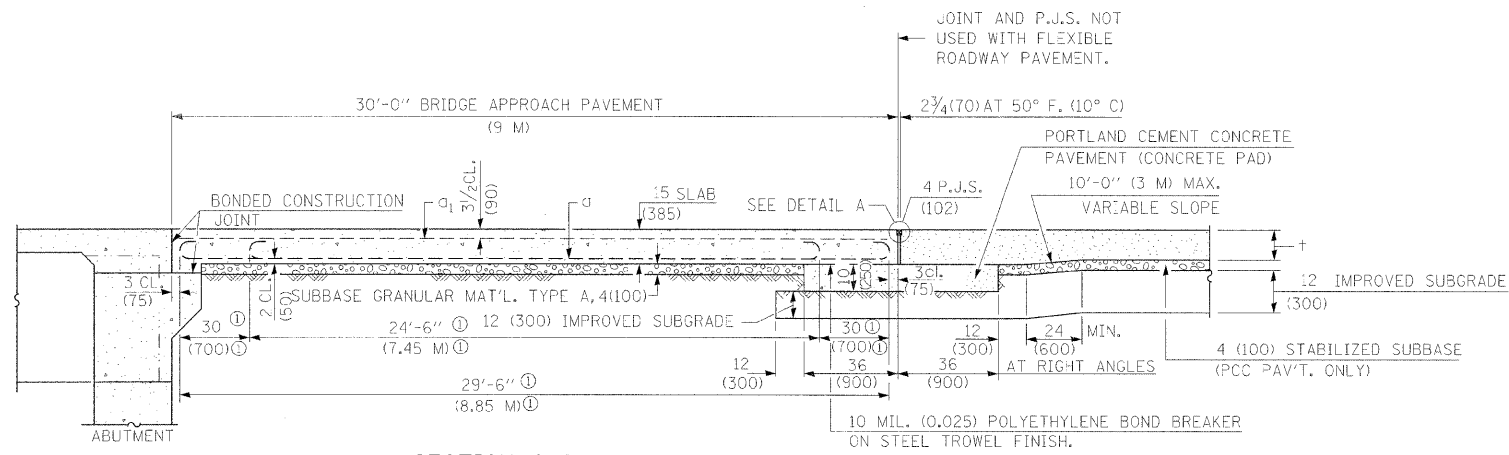


SECTION G-G - RIGID PAVEMENT



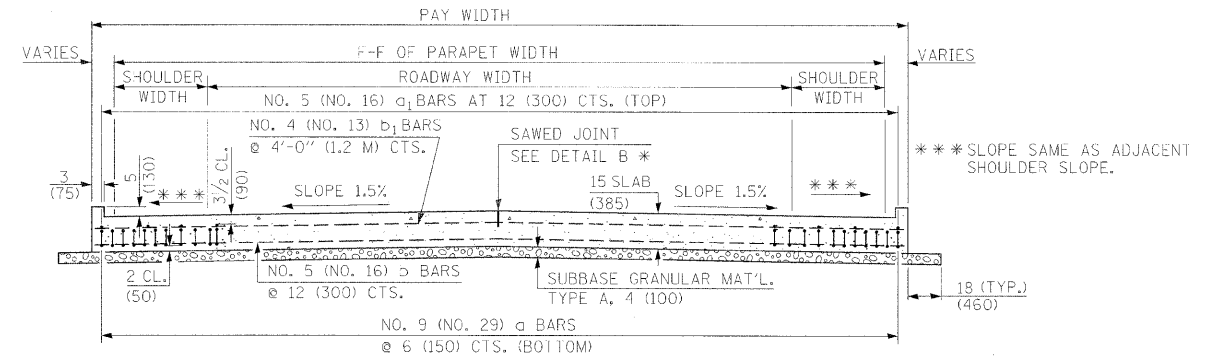
SECTION G-G - FLEXIBLE PAVEMENT

FILE NAME =	USER NAME = marntm	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	BRIDGE APPROACH PAVEMENT DETAIL	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
e:\pw_work\pwidot\marntm\dms51659\pin0300a.dgn		DRAWN -	REVISED -			10	410BR-1	GREENE	37	12B	
PLOT SCALE = 20.0000 ' / IN.		CHECKED -	REVISED -			CONTRACT NO. 76B58					
PLOT DATE = 10/16/2008		DATE -	REVISED -			ILLINOIS FED. AID PROJECT					
					SCALE:	SHEET NO. 2 OF 4 SHEETS	STA.	TO STA.			



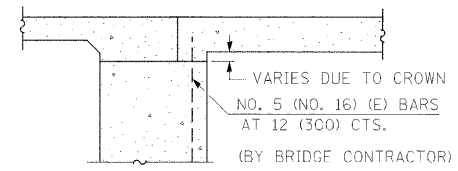
SECTION C-C

⊙ STAGGER NO. 9 (NO. 29) A BARS AS SHOWN ON PLAN - FULL WIDTH

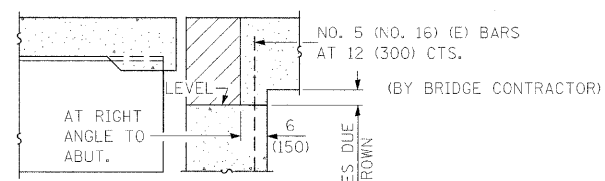


SECTION D-D

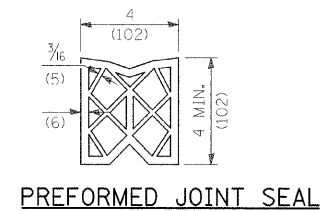
(SEE PLAN FOR DIMENSIONS NOT SHOWN)



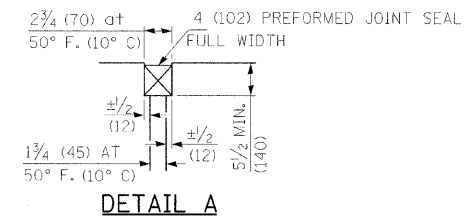
SECTION E-E
(INTEGRAL ABUTMENTS)



SECTION E-E
(JOINTED ABUTMENTS)

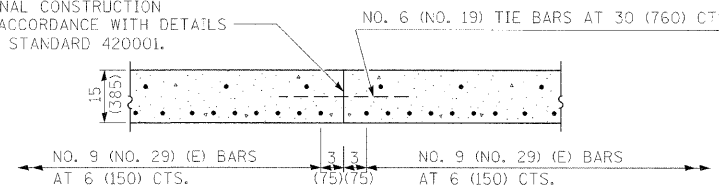


PREFORMED JOINT SEAL



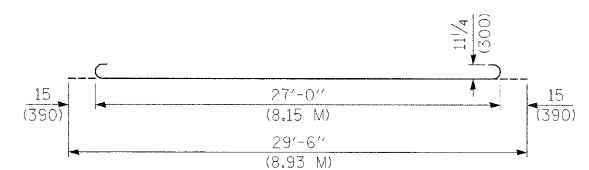
DETAIL A

LONGITUDINAL CONSTRUCTION JOINT IN ACCORDANCE WITH DETAILS SHOWN ON STANDARD 420001.

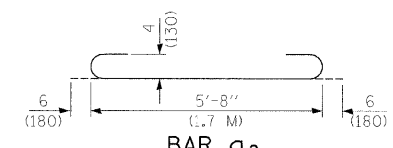


OPTIONAL LONGITUDINAL CONSTRUCTION JOINT

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.



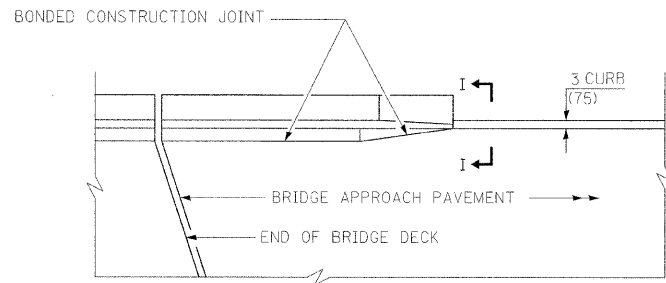
BAR a



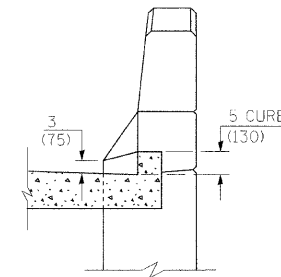
BAR a₂

DESIGN STRESSES
 f_y = 60,000 P.S.I. (400 MPa)
 f'c = 3,500 P.S.I. (24 MPa)
 n = 8.5

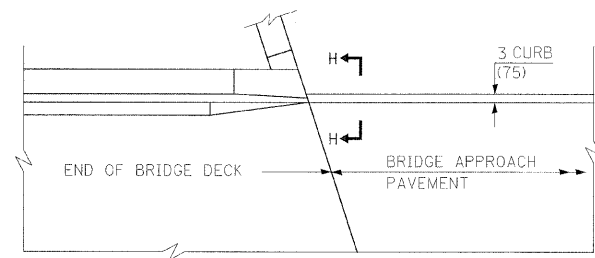
FILE NAME =	USER NAME = manntm	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	BRIDGE APPROACH PAVEMENT DETAIL	F.A.P. RTÉ.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
c:\p\work\p\widat\manntm\dms51659\p\in0300a.dgn		DRAWN -	REVISED -			10	410BR-1	GREENE	37	12C
PLOT SCALE = 20,0000' / IN.		CHECKED -	REVISED -			CONTRACT NO. 76B58				
PLOT DATE = 10/16/2000		DATE -	REVISED -			FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			
				SCALE:	SHEET NO. 3 OF 4 SHEETS	STA.	TO STA.			



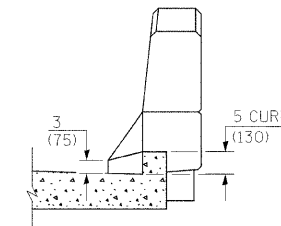
PARAPET TO CURB TRANSITION
PILE BENT ABUTMENT



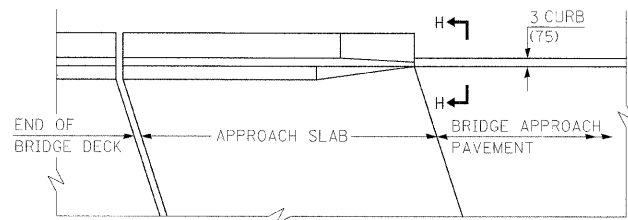
SECTION I - I



PARAPET TO CURB TRANSITION
INTEGRAL ABUTMENT



SECTION H - H



PARAPET TO CURB TRANSITION
VAULTED ABUTMENT

FILE NAME =	USER NAME = mannon	DESIGNED =	REVISED =	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	BRIDGE APPROACH PAVEMENT DETAIL		F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
cs:\pw_work\pwidot\mannon\dms51659\p1n03	009a.dgn	DRAWN =	REVISED =				10	410BR-1	GREENE	37	12D
PLOT SCALE = 20,0000' / 1"		CHECKED =	REVISED =				CONTRACT NO. 76B58				
PLOT DATE = 10/16/2008		DATE =	REVISED =				FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			

SCALE: SHEET NO. 4 OF 4 SHEETS STA. TO STA.

DESIGN DETAIL BR-D-5

B.M. 151: Chiseled box on SE wingwall of SN 031-0018, Sta. 85+92, 18.2' Left, Elev. 512.96.

EXISTING STRUCTURE: S.N. 031-0018, originally constructed in 1952 as FA Route 164 Sec. 410-B at Station 85+20.00, using cast-in-place concrete deck beams with 7" concrete deck, 3 spans, 147'-0" back-back abutments, 35'-8" out-out width, open pile bent abutment on concrete piles, wall piers with footings on timber piles, open abutment with footing on timber piles. In 1988 the bridge was repaired, including a concrete deck overlay and new bridge railing.

Existing structure shall be removed and replaced using staged construction to maintain one lane of traffic.

No salvage.

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL NOTES

Fasteners shall be AASHTO M164 Type 1, mechanically galvanized bolts in painted areas and M164 Type 3 in unpainted areas. Bolts 7/8 in. φ, holes 15/16 in. φ, unless otherwise noted.

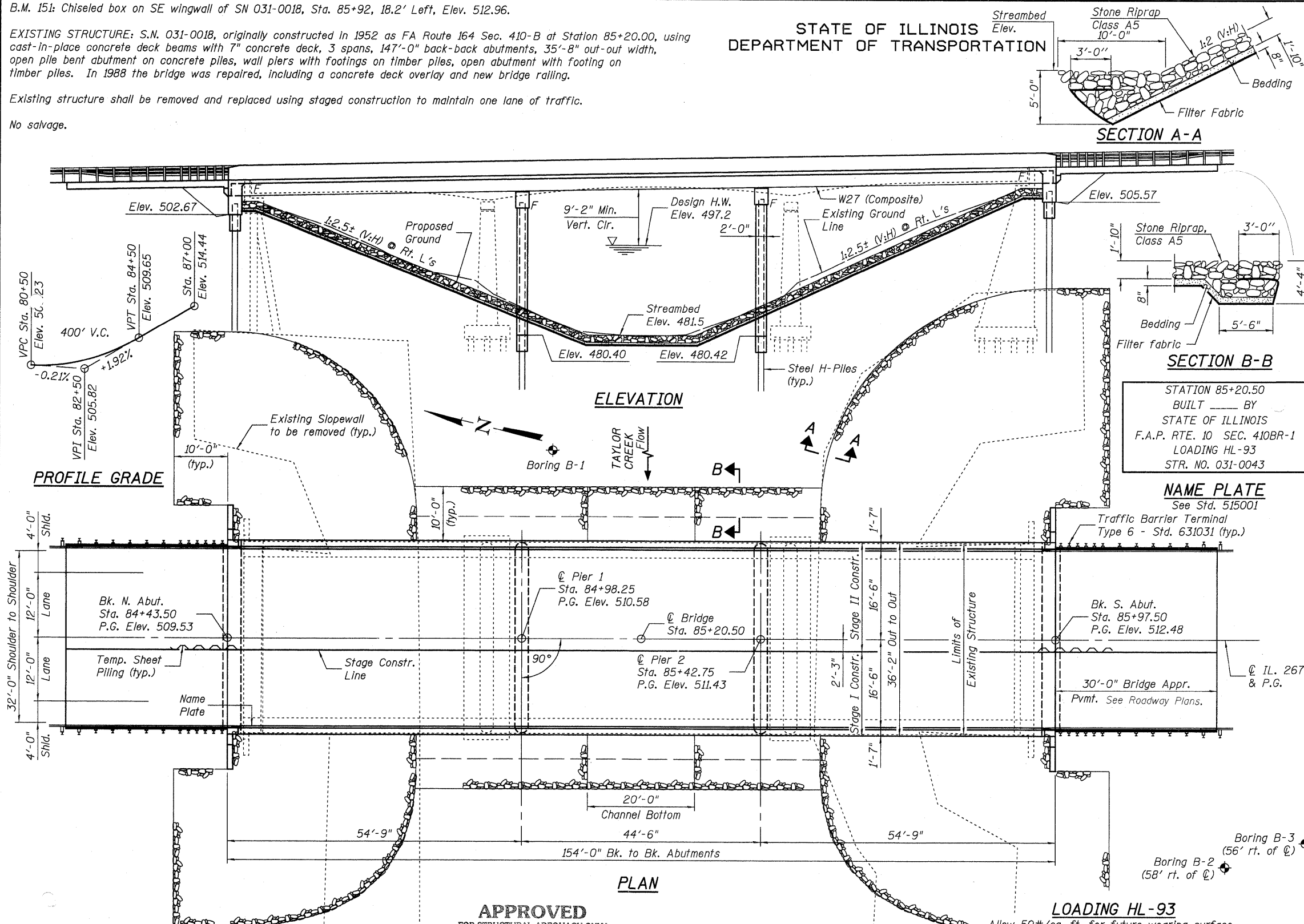
All structural steel shall be AASHTO M 270 Grade 50W. Calculated weight of Structural Steel = 89040 lbs. No field welding is permitted except as specified in the contract documents. Reinforcement bars shall conform to the requirements of ASTM A 706 Gr 60. See Special Provisions. Reinforcement bars designated (E) shall be epoxy coated.

Structural steel shall only be painted for a distance equal to the depth of embedment into the concrete cap plus 3 inches. Those areas shall be primed in the shop with a Department approved zinc rich primer. No field painting shall be required. All structural steel shall be cleaned as specified in the Special Provision for "Surface Preparation and Painting Requirements for Weathering Steel".

The existing structural steel coating contains lead. The Contractor shall take appropriate precautions to deal with the presence of lead on this project. Bearing seat surfaces shall be constructed or adjusted to their designated elevations within a tolerance of 1/8 inch (0.01 ft.). Adjustment shall be made either by grinding the surface or by shimming the bearings.

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.



TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
Porous Granular Embankment, Special	Cu Yd	--	98	98
Stone Riprap, Class A5	Sq Yd	--	1661	1661
Filter Fabric	Sq Yd	--	1661	1661
Removal Of Existing Structures	Each	1	--	1
Slope Wall Removal	Sq Yd	--	1080	1080
Structure Excavation	Cu Yd	--	224	224
Concrete Structures	Cu Yd	--	175.2	175.2
Concrete Superstructure	Cu Yd	191.9	--	191.9
Bridge Deck Grooving	Sq Yd	530	--	530
Concrete Encasement	Cu Yd	--	8.4	8.4
Protective Coat	Sq Yd	694	--	694
Furnishing And Erecting Structural Steel	L Sum	1	--	1
Stud Shear Connectors	Each	2700	--	2700
Reinforcement Bars, Epoxy Coated	Pound	45480	13080	58560
Bar Splicers	Each	552	124	676
Furnishing Steel Piles HP 12x53	Foot	--	1050	1050
Furnishing Steel Piles HP 12x63	Foot	--	1050	1050
Driving Piles	Foot	--	2100	2100
Test Pile Steel HP12x53	Each	--	2	2
Test Pile Steel HP12x63	Each	--	2	2
Pile Shoes	Each	--	24	24
Temporary Sheet Piling	Sq Ft	--	299	299
Name Plates	Each	1	--	1
Anchor Bolts, 1"	Each	--	48	48
Geocomposite Wall Drain	Sq Yd	--	62	62
Pipe Underdrains For Structures 4"	Foot	--	134	134
Underwater Struct. Excav. Protection - Loc. 1	Each	--	1	1
Underwater Struct. Excav. Protection - Loc. 2	Each	--	1	1

INDEX OF SHEETS

Sheet No.	Description
1	General Plan, General Notes & Bill of Material
2	Stage Construction Details, Temp Sheet Piling
3	Temp Concrete Barrier for Stage Construction
4-6	Top of Slab Elevations
7-9	Superstructure Details
10	Concrete Parapet Slipforming Option
11	Structural Steel & Framing Plan
12	Bearings
13	North and South Abutments
14	Piers 1 and 2
15	Pile Details
16	Bar Splicer Assembly Details
17-19	Soil Borings

GENERAL PLAN
ILLINOIS 267 OVER
TAYLOR CREEK
STRUCTURE NO. 031-0043

SHEET 1 OF 19	F.A.P. RTE. 10	SECTION 410BR-1	COUNTY GREENE	TOTAL SHEETS 37	SHEET NO. 13
		STA. 85+20.50	CONTRACT NO. 76B58		
		FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT		

DESIGN SCOUR ELEVATION TABLE

Design Scour Elevation (ft.)	N. Abut.	Pier 1	Pier 2	S. Abut.
	502.7	480.4	480.4	505.6

Johnson, Depp & Quisenberry
CONSULTING ENGINEERS
Springfield, Illinois

DESIGNED: JDQ DRAWN: P. Ray
CHECKED: DCD CHECKED: DCD

DAVID C. DEPP
081-005117
LICENSED STRUCTURAL ENGINEER

Signed: *David Depp*
Date: 10-7-2008
Lic. Expires: 11-30-2008

APPROVED
FOR STRUCTURAL ADEQUACY ONLY

Ralph E. Anderson (TSP)
ENGINEER OF BRIDGES AND STRUCTURES

WATERWAY INFORMATION

Existing Low Grade Elevation: 506.23 @ Sta. 81+00

Prop. Low Grade Elevation: 506.23 @ Sta. 81+00

Flood	Freq. Yr.	Q C.F.S.	Opening Sq. Ft.		Nat. Head - Ft.		Headwater El.		
			Exist.	Prop.	H.W.E. Exist.	Prop.	Exist.	Prop.	
Scour	10	4100	533.80	672.72	494.71	1.23	1.12	495.94	495.83
Design	50	6600	737.35	893.34	497.18	2.67	2.51	499.85	499.69
Base	100	7720	806.50	969.48	497.96	3.68	3.46	501.64	501.42
Overtopping									
Max. Calc.	500	10500	972.14	1153.75	499.73	5.54	5.33	505.27	505.06

LOADING HL-93
Allow 50#/sq. ft. for future wearing surface.

DESIGN SPECIFICATIONS

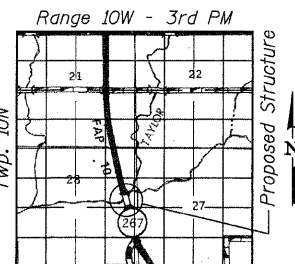
2007 AASHTO LRFD Bridge Design Specifications

DESIGN STRESSES

FIELD UNITS
f'c = 3,500 psi
fy = 60,000 psi (Reinforcement)
fy = 50,000 psi (M270 Grade 50W)

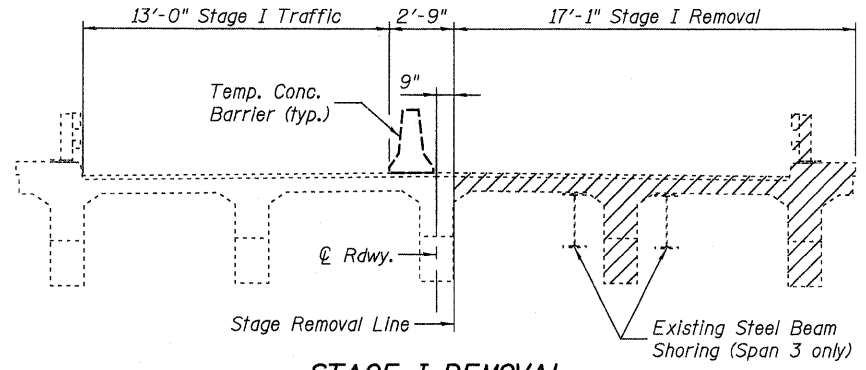
SEISMIC DATA

Seismic Performance Zone (SPZ) = 1
Bedrock Acceleration Coefficient (A) = 0.060g
Site Coefficient (S) = 1.0

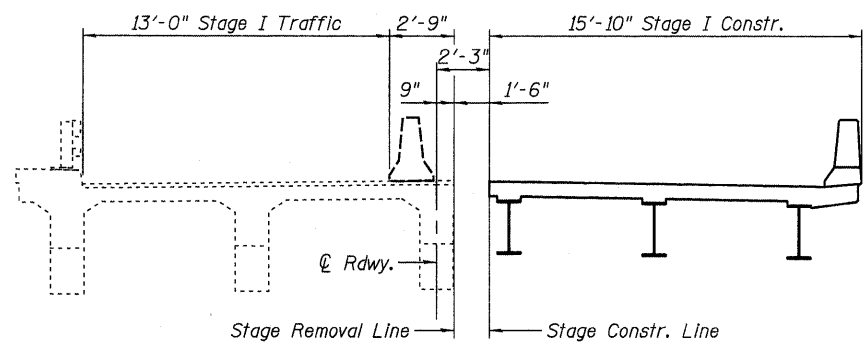


LOCATION SKETCH

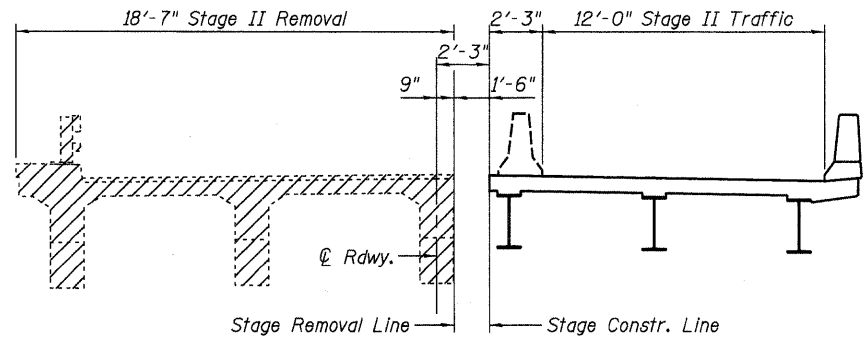
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



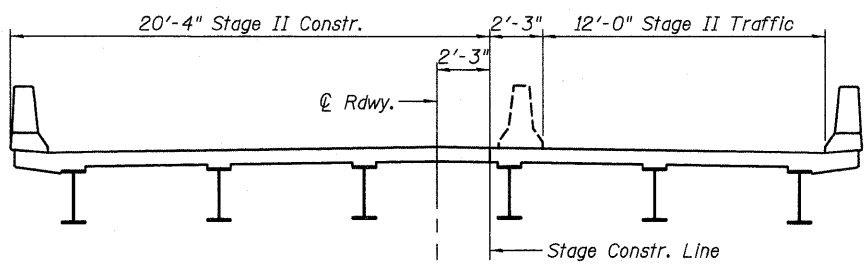
STAGE I REMOVAL
(Looking South)



STAGE I CONSTRUCTION
(Looking South)



STAGE II REMOVAL
(Looking South)

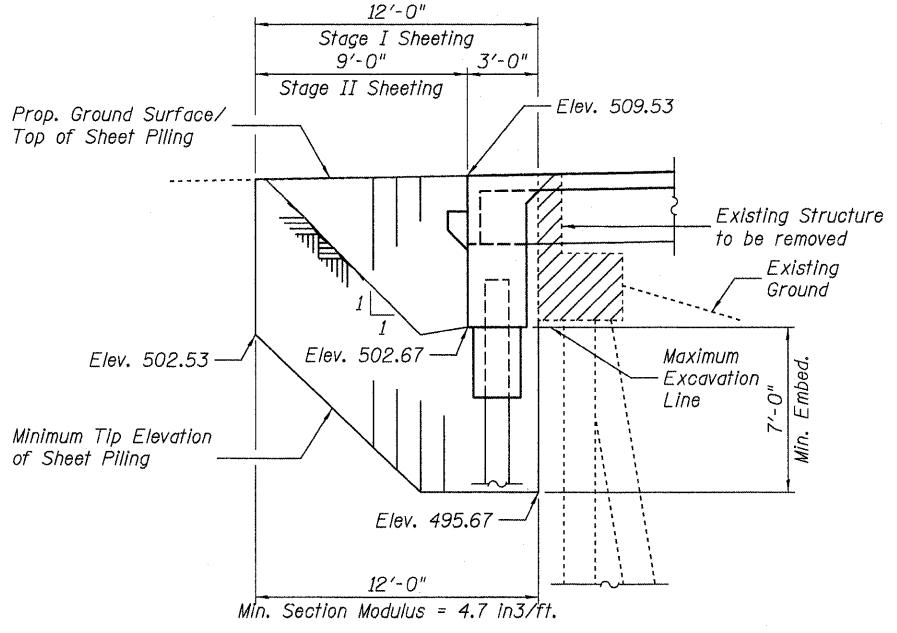


STAGE II CONSTRUCTION
(Looking South)

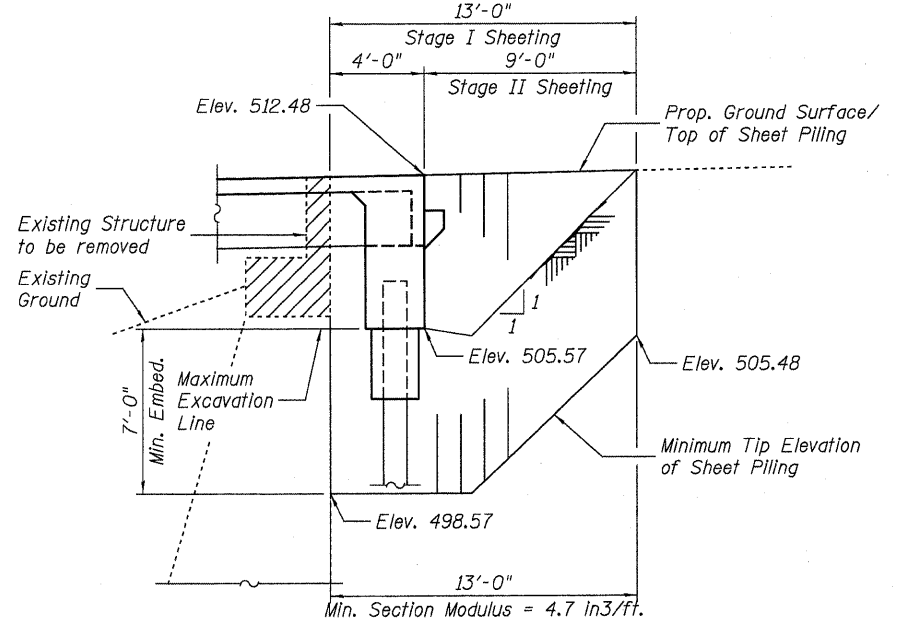
Notes:
Hatched area indicates Removal of Existing Structures.
Removal of existing railing is included with Removal of Existing Structures.
For quantity and location of Temporary Concrete Barrier, see Roadway Plans.

JD Johnson, Depp & Quisenberry
CONSULTING ENGINEERS
Springfield, Illinois

DESIGNED: JDQ	DRAWN: SJS
CHECKED: DCD	CHECKED: DCD



NORTH ABUTMENT

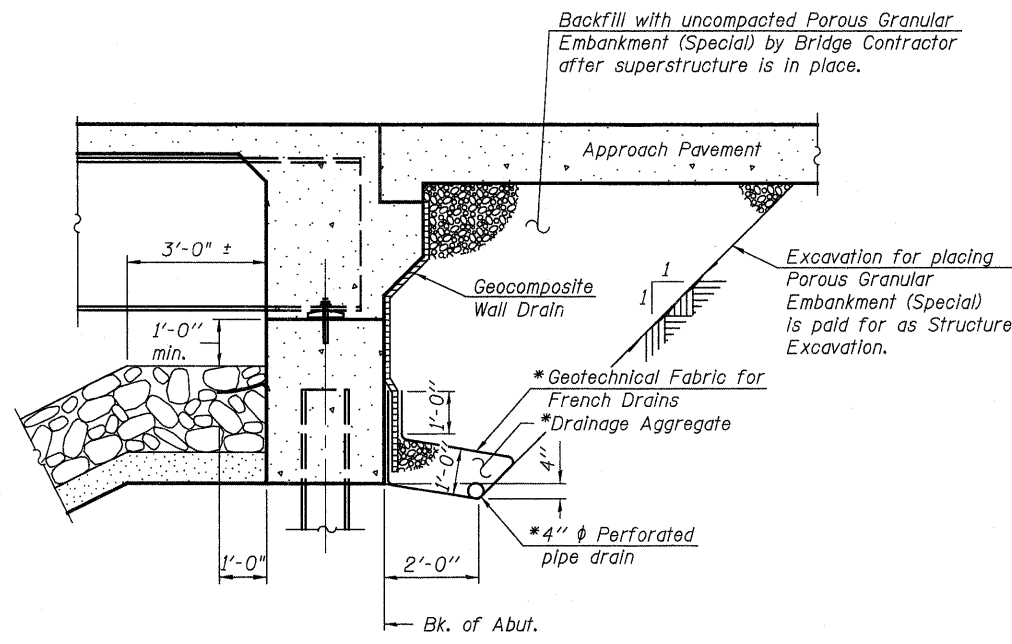


SOUTH ABUTMENT

TEMPORARY SHEET PILING DETAILS

(Slopes and horizontal dimensions are measured parallel to ϕ roadway)

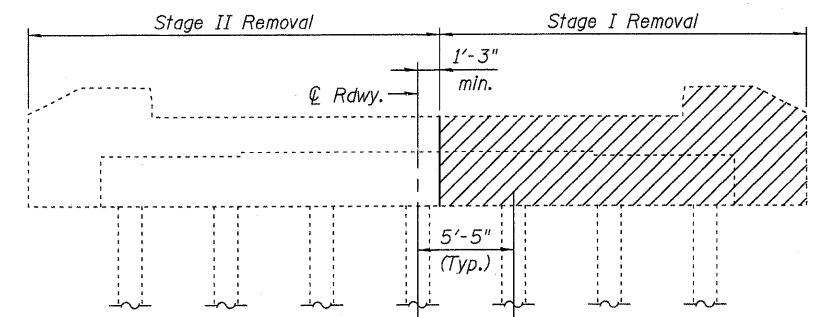
If the Contractor chooses to alter the temporary cantilevered sheet piling design requirements shown on plans, a design submittal including plan details and calculations will be required for review and acceptance by the Engineer.



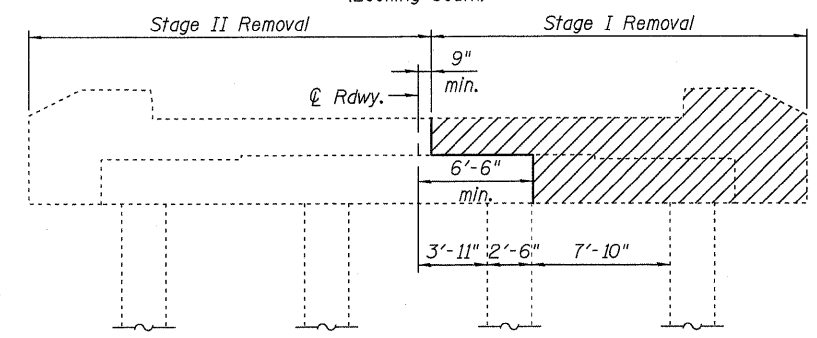
SECTION THRU INTEGRAL ABUTMENT
(Horiz. dim. ϕ Rt. L's)

* Included in the cost of Pipe Underdrains for Structures.

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).



NORTH ABUTMENT
(Looking South)



SOUTH ABUTMENT
(Looking South)

Note:
South Abutment cap must remain supported on 3 columns during Stage I.

STAGE CONSTRUCTION DETAILS

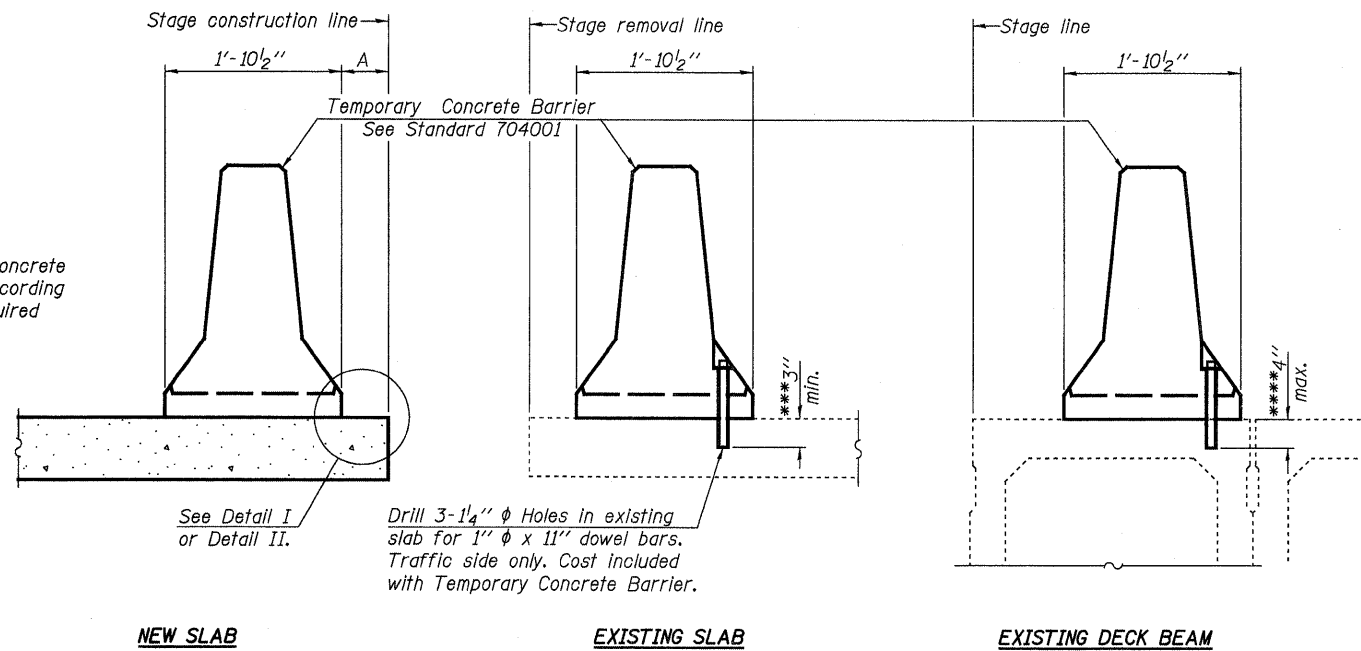
ILLINOIS 267 OVER
TAYLOR CREEK
STRUCTURE NO. 031-0043

SHEET 2 OF 19	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	10	410BR-1	GREENE	37	14
	STA. 85+20.50		CONTRACT NO. 76B58		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT			

FILE: J:\JDD\10163 IL-08V98 IL 267 Taylor Creek-FINAL V-TaylorCreek\02stageconst.r.dgn
USER: DCD
DATE: 10/07/2008 15:05:50

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

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".



NEW SLAB

EXISTING SLAB

EXISTING DECK BEAM

See Detail I or Detail II.

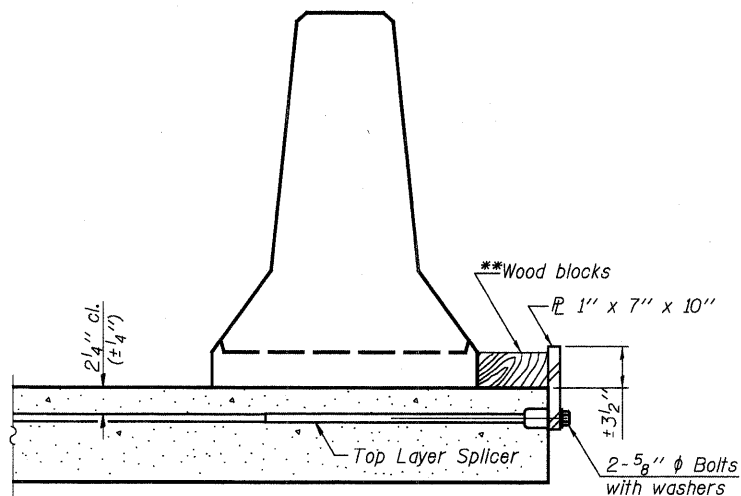
Drill 3-1/4" ϕ Holes in existing slab for 1" ϕ x 11" dowel bars. Traffic side only. Cost included with Temporary Concrete Barrier.

SECTIONS THRU SLAB OR DECK BEAM

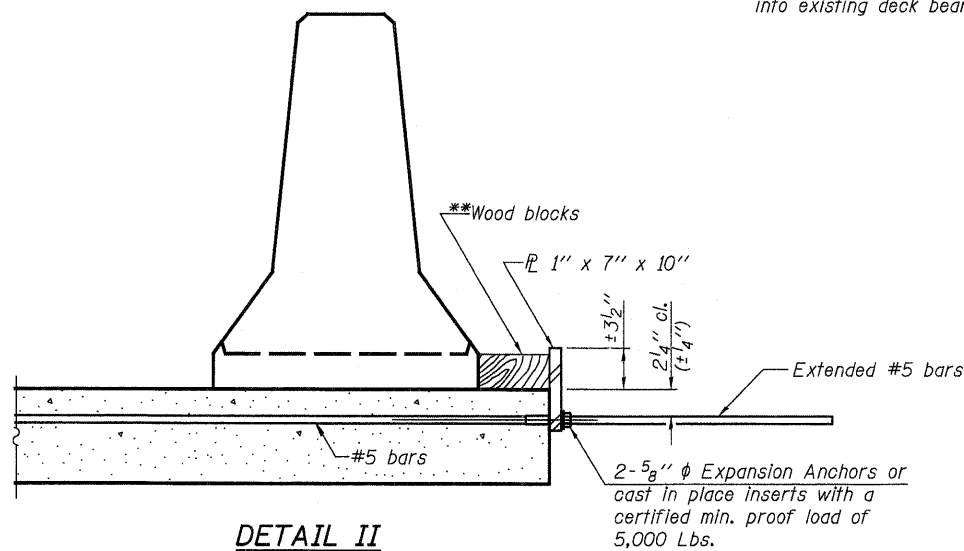
NOTES

- Detail I - With Bar Splicer or Couplers:
Connect one (1) 1"x7"x10" steel \bar{P} to the top layer of couplers with 2-5/8" ϕ bolts screwed to coupler at approximate \bar{C} of each barrier panel.
- Detail II - With Extended Reinforcement Bars:
Connect one (1) 1"x7"x10" steel \bar{P} to the concrete slab or concrete wearing surface with 2-5/8" ϕ Expansion Anchors or cast in place inserts spaced between the top layer of reinforcement at approximate \bar{C} 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.

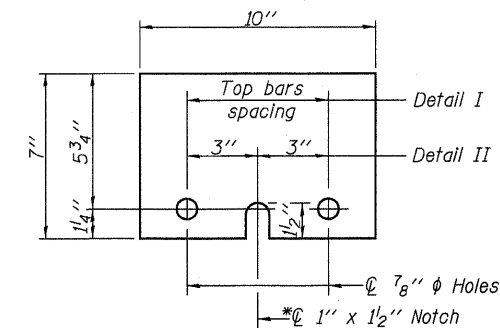
- ***Dimension shown is minimum required embedment into concrete. If hot-mix asphalt wearing surface is present, minimum embedment shall be in addition to wearing surface depth.
- ***If existing deck beam is to remain in place after stage construction, embedment shall only be into wearing surface and not into existing deck beam concrete.



DETAIL I



DETAIL II



STEEL RETAINER \bar{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.

TEMPORARY CONCRETE BARRIER
FOR STAGE CONSTRUCTION
ILLINOIS 267 OVER
TAYLOR CREEK
STRUCTURE NO. 031-0043

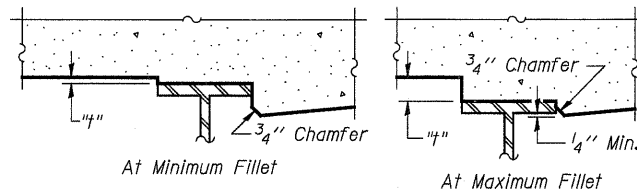
DESIGNED: JDQ	DRAWN: SJS
CHECKED: DCD	CHECKED: DCD

R-27

5-16-08

SHEET 3 OF 19	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	10	410BR-1	GREENE	37	15
	STA. 85+20.50		CONTRACT NO. 76B58		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT			

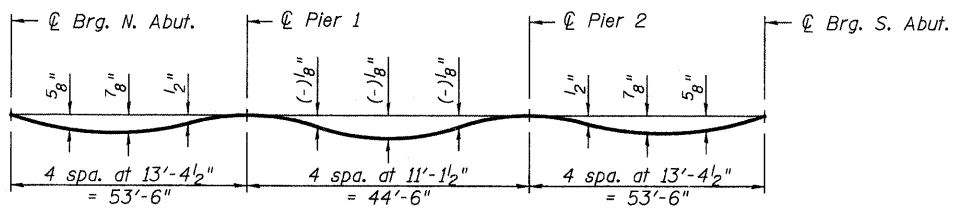
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



To determine "t": After all structural steel has 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 Deflection" shown below, minus slab thickness, equals the fillet heights "t" above top flange of beams.

FILLET HEIGHTS

NOTE: Expected fillet height "t" varies from 1/2" (at Abuts.) to 1 3/4" (at midspan 1 & 3).



DEAD LOAD DEFLECTION DIAGRAM

(Includes weight of concrete only.)

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.

BEAM 1

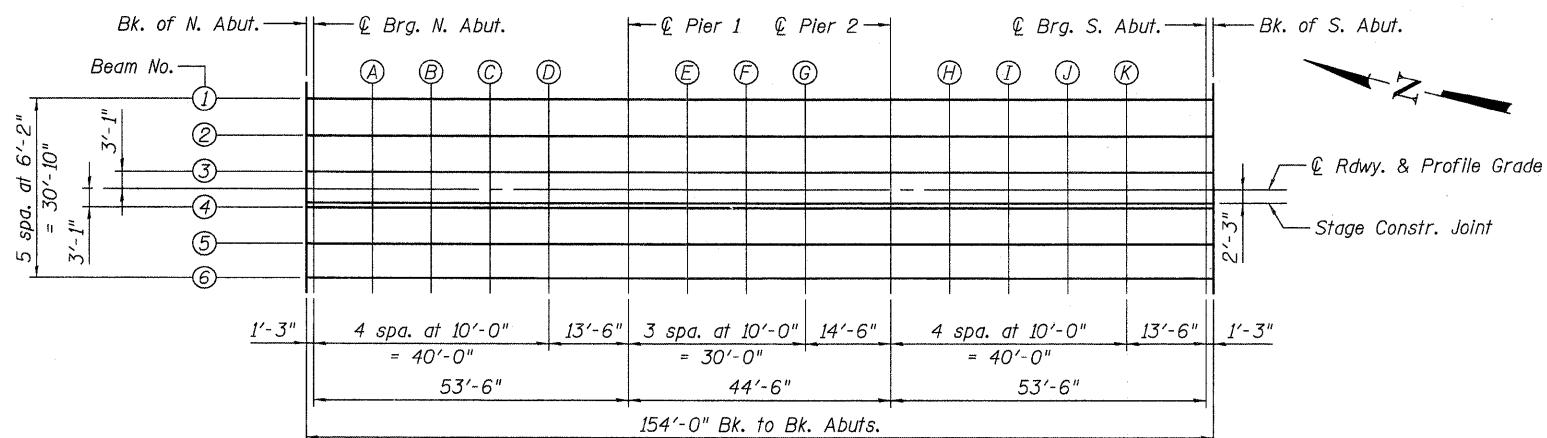
Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. N. Abut.	84+43.50	-15.42	509.28	509.28
☉ Brg. N. Abut.	84+44.75	-15.42	509.30	509.30
A	84+54.75	-15.42	509.49	509.54
B	84+64.75	-15.42	509.69	509.76
C	84+74.75	-15.42	509.88	509.95
D	84+84.75	-15.42	510.07	510.11
☉ Pier 1	84+98.25	-15.42	510.33	510.33
E	85+08.25	-15.42	510.52	510.51
F	85+18.25	-15.42	510.71	510.70
G	85+28.25	-15.42	510.90	510.89
☉ Pier 2	85+42.75	-15.42	511.18	511.18
H	85+52.75	-15.42	511.37	511.40
I	85+62.75	-15.42	511.56	511.63
J	85+72.75	-15.42	511.75	511.83
K	85+82.75	-15.42	511.95	512.00
☉ Brg. S. Abut.	85+96.25	-15.42	512.20	512.20
Bk. S. Abut.	85+97.50	-15.42	512.23	512.23

BEAM 2

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. N. Abut.	84+43.50	-9.25	509.39	509.39
☉ Brg. N. Abut.	84+44.75	-9.25	509.41	509.41
A	84+54.75	-9.25	509.60	509.65
B	84+64.75	-9.25	509.79	509.87
C	84+74.75	-9.25	509.99	510.06
D	84+84.75	-9.25	510.18	510.22
☉ Pier 1	84+98.25	-9.25	510.44	510.44
E	85+08.25	-9.25	510.63	510.62
F	85+18.25	-9.25	510.82	510.81
G	85+28.25	-9.25	511.01	511.00
☉ Pier 2	85+42.75	-9.25	511.29	511.29
H	85+52.75	-9.25	511.48	511.51
I	85+62.75	-9.25	511.67	511.74
J	85+72.75	-9.25	511.86	511.94
K	85+82.75	-9.25	512.06	512.11
☉ Brg. S. Abut.	85+96.25	-9.25	512.31	512.31
Bk. S. Abut.	85+97.50	-9.25	512.34	512.34

BEAM 3

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. N. Abut.	84+43.50	-3.08	509.48	509.48
☉ Brg. N. Abut.	84+44.75	-3.08	509.51	509.51
A	84+54.75	-3.08	509.70	509.74
B	84+64.75	-3.08	509.89	509.96
C	84+74.75	-3.08	510.08	510.15
D	84+84.75	-3.08	510.27	510.32
☉ Pier 1	84+98.25	-3.08	510.53	510.53
E	85+08.25	-3.08	510.72	510.71
F	85+18.25	-3.08	510.91	510.90
G	85+28.25	-3.08	511.10	511.09
☉ Pier 2	85+42.75	-3.08	511.38	511.38
H	85+52.75	-3.08	511.57	511.61
I	85+62.75	-3.08	511.76	511.83
J	85+72.75	-3.08	511.96	512.03
K	85+82.75	-3.08	512.15	512.20
☉ Brg. S. Abut.	85+96.25	-3.08	512.41	512.41
Bk. S. Abut.	85+97.50	-3.08	512.43	512.43



PLAN

TOP OF SLAB ELEVATIONS

ILLINOIS 267 OVER
TAYLOR CREEK
STRUCTURE NO. 031-0043

JD Johnson, Depp & Quisenberry
CONSULTING ENGINEERS
Springfield, Illinois

DESIGNED: JDQ DRAWN: SJS
CHECKED: DCD CHECKED: DCD

SHEET 4 OF 19	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	10	410BR-1	GREENE	37	16
	STA. 85+20.50		CONTRACT NO. 76B58		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT			

FILE: J:\JDO\1063 IL-08VW\8 IL 267 Taylor Creek-FINAL\1-Taylor Creek 04tabelev.dgn
USER: DCD
DATE: 10/07/2008 15:05:58

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

RDWY. & PROFILE GRADE

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. N. Abut.	84+43.50	0.00	509.53	509.53
⊙ Brg. N. Abut.	84+44.75	0.00	509.55	509.55
A	84+54.75	0.00	509.74	509.79
B	84+64.75	0.00	509.93	510.00
C	84+74.75	0.00	510.13	510.19
D	84+84.75	0.00	510.32	510.36
⊙ Pier 1	84+98.25	0.00	510.58	510.58
E	85+08.25	0.00	510.77	510.76
F	85+18.25	0.00	510.96	510.95
G	85+28.25	0.00	511.15	511.14
⊙ Pier 2	85+42.75	0.00	511.43	511.43
H	85+52.75	0.00	511.62	511.65
I	85+62.75	0.00	511.81	511.87
J	85+72.75	0.00	512.00	512.08
K	85+82.75	0.00	512.19	512.25
⊙ Brg. S. Abut.	85+96.25	0.00	512.45	512.45
Bk. S. Abut.	85+97.50	0.00	512.48	512.48

STAGE CONSTRUCTION JOINT

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. N. Abut.	84+43.50	2.25	509.49	509.49
⊙ Brg. N. Abut.	84+44.75	2.25	509.52	509.52
A	84+54.75	2.25	509.71	509.75
B	84+64.75	2.25	509.90	509.97
C	84+74.75	2.25	510.09	510.16
D	84+84.75	2.25	510.28	510.33
⊙ Pier 1	84+98.25	2.25	510.54	510.54
E	85+08.25	2.25	510.73	510.72
F	85+18.25	2.25	510.92	510.91
G	85+28.25	2.25	511.12	511.10
⊙ Pier 2	85+42.75	2.25	511.39	511.39
H	85+52.75	2.25	511.59	511.62
I	85+62.75	2.25	511.78	511.84
J	85+72.75	2.25	511.97	512.04
K	85+82.75	2.25	512.16	512.22
⊙ Brg. S. Abut.	85+96.25	2.25	512.42	512.42
Bk. S. Abut.	85+97.50	2.25	512.44	512.44

BEAM 4

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. N. Abut.	84+43.50	3.08	509.48	509.48
⊙ Brg. N. Abut.	84+44.75	3.08	509.51	509.51
A	84+54.75	3.08	509.70	509.74
B	84+64.75	3.08	509.89	509.96
C	84+74.75	3.08	510.08	510.15
D	84+84.75	3.08	510.27	510.32
⊙ Pier 1	84+98.25	3.08	510.53	510.53
E	85+08.25	3.08	510.72	510.71
F	85+18.25	3.08	510.91	510.90
G	85+28.25	3.08	511.10	511.09
⊙ Pier 2	85+42.75	3.08	511.38	511.38
H	85+52.75	3.08	511.57	511.61
I	85+62.75	3.08	511.76	511.83
J	85+72.75	3.08	511.96	512.03
K	85+82.75	3.08	512.15	512.20
⊙ Brg. S. Abut.	85+96.25	3.08	512.41	512.41
Bk. S. Abut.	85+97.50	3.08	512.43	512.43

BEAM 5

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. N. Abut.	84+43.50	9.25	509.39	509.39
⊙ Brg. N. Abut.	84+44.75	9.25	509.41	509.41
A	84+54.75	9.25	509.60	509.65
B	84+64.75	9.25	509.79	509.87
C	84+74.75	9.25	509.99	510.06
D	84+84.75	9.25	510.18	510.22
⊙ Pier 1	84+98.25	9.25	510.44	510.44
E	85+08.25	9.25	510.63	510.62
F	85+18.25	9.25	510.82	510.81
G	85+28.25	9.25	511.01	511.00
⊙ Pier 2	85+42.75	9.25	511.29	511.29
H	85+52.75	9.25	511.48	511.51
I	85+62.75	9.25	511.67	511.74
J	85+72.75	9.25	511.86	511.94
K	85+82.75	9.25	512.06	512.11
⊙ Brg. S. Abut.	85+96.25	9.25	512.31	512.31
Bk. S. Abut.	85+97.50	9.25	512.34	512.34

BEAM 6

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. N. Abut.	84+43.50	15.42	509.28	509.28
⊙ Brg. N. Abut.	84+44.75	15.42	509.30	509.30
A	84+54.75	15.42	509.49	509.54
B	84+64.75	15.42	509.69	509.76
C	84+74.75	15.42	509.88	509.95
D	84+84.75	15.42	510.07	510.11
⊙ Pier 1	84+98.25	15.42	510.33	510.33
E	85+08.25	15.42	510.52	510.51
F	85+18.25	15.42	510.71	510.70
G	85+28.25	15.42	510.90	510.89
⊙ Pier 2	85+42.75	15.42	511.18	511.18
H	85+52.75	15.42	511.37	511.40
I	85+62.75	15.42	511.56	511.63
J	85+72.75	15.42	511.75	511.83
K	85+82.75	15.42	511.95	512.00
⊙ Brg. S. Abut.	85+96.25	15.42	512.20	512.20
Bk. S. Abut.	85+97.50	15.42	512.23	512.23

FILE: J:\JDO\10163 IL-08WV98 IL 267 Taylor Creek-FINAL V-Taylor Creek-04slabelev.dgn
DATE: 10/07/2008 15:06:00
USER: DCD

JD Johnson, Depp & Quisenberry
CONSULTING ENGINEERS
Springfield, Illinois

DESIGNED: JDO	DRAWN: SJS
CHECKED: DCD	CHECKED: DCD

TOP OF SLAB ELEVATIONS
ILLINOIS 267 OVER
TAYLOR CREEK
STRUCTURE NO. 031-0043

SHEET 5 OF 19	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	10	410BR-1	GREENE	37	17
	STA. 85+20.50		CONTRACT NO. 76B58		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT			

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LEFT CURB LINE

Location	Station	Offset	Theoretical Grade Elevations
End N. Appr. Pvmf.	84+13.50	-16.92	508.71
A1	84+23.50	-16.92	508.88
B1	84+33.50	-16.92	509.06
Bk. N. Abut.	84+43.50	-16.92	509.25
Bk. S. Abut.	85+97.50	-16.92	512.20
A2	86+07.50	-16.92	512.39
B2	86+17.50	-16.92	512.58
End S. Appr. Pvmf.	86+27.50	-16.92	512.77

LEFT EDGE OF PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations
End N. Appr. Pvmf.	84+13.50	-12.00	508.81
A1	84+23.50	-12.00	508.98
B1	84+33.50	-12.00	509.16
Bk. N. Abut.	84+43.50	-12.00	509.35
Bk. S. Abut.	85+97.50	-12.00	512.30
A2	86+07.50	-12.00	512.49
B2	86+17.50	-12.00	512.68
End S. Appr. Pvmf.	86+27.50	-12.00	512.87

☉ RDWY. & PROFILE GRADE

Location	Station	Offset	Theoretical Grade Elevations
End N. Appr. Pvmf.	84+13.50	0.00	508.99
A1	84+23.50	0.00	509.16
B1	84+33.50	0.00	509.34
Bk. N. Abut.	84+43.50	0.00	509.53
Bk. S. Abut.	85+97.50	0.00	512.48
A2	86+07.50	0.00	512.67
B2	86+17.50	0.00	512.86
End S. Appr. Pvmf.	86+27.50	0.00	513.05

STAGE CONSTRUCTION JOINT

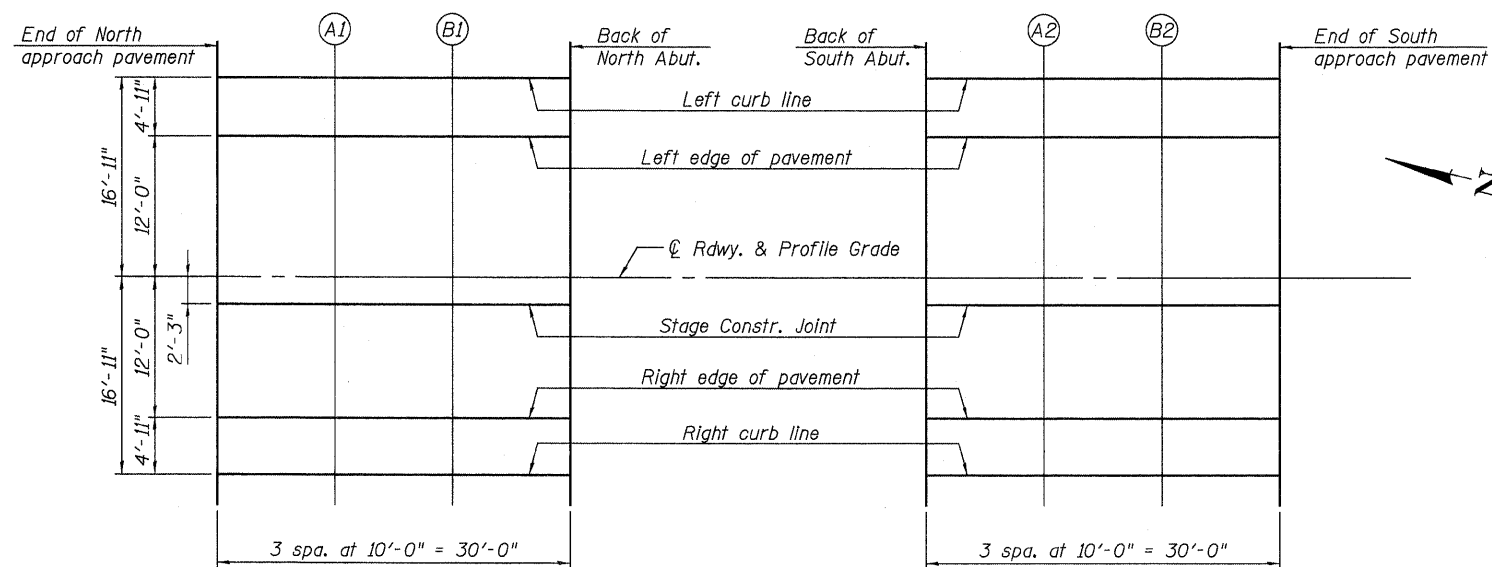
Location	Station	Offset	Theoretical Grade Elevations
End N. Appr. Pvmf.	84+13.50	2.25	508.95
A1	84+23.50	2.25	509.13
B1	84+33.50	2.25	509.31
Bk. N. Abut.	84+43.50	2.25	509.49
Bk. S. Abut.	85+97.50	2.25	512.44
A2	86+07.50	2.25	512.63
B2	86+17.50	2.25	512.83
End S. Appr. Pvmf.	86+27.50	2.25	513.02

RIGHT EDGE OF PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations
End N. Appr. Pvmf.	84+13.50	12.00	508.81
A1	84+23.50	12.00	508.98
B1	84+33.50	12.00	509.16
Bk. N. Abut.	84+43.50	12.00	509.35
Bk. S. Abut.	85+97.50	12.00	512.30
A2	86+07.50	12.00	512.49
B2	86+17.50	12.00	512.68
End S. Appr. Pvmf.	86+27.50	12.00	512.87

RIGHT CURB LINE

Location	Station	Offset	Theoretical Grade Elevations
End N. Appr. Pvmf.	84+13.50	16.92	508.71
A1	84+23.50	16.92	508.88
B1	84+33.50	16.92	509.06
Bk. N. Abut.	84+43.50	16.92	509.25
Bk. S. Abut.	85+97.50	16.92	512.20
A2	86+07.50	16.92	512.39
B2	86+17.50	16.92	512.58
End S. Appr. Pvmf.	86+27.50	16.92	512.77



PLAN

TOP OF APPROACH
SLAB ELEVATIONS
ILLINOIS 267 OVER
TAYLOR CREEK
STRUCTURE NO. 031-0043

JD Johnson, Depp & Quisenberry
CONSULTING ENGINEERS
Springfield, Illinois

DESIGNED: JDQ	DRAWN: SJS
CHECKED: DCD	CHECKED: DCD

E-AS 5-16-08

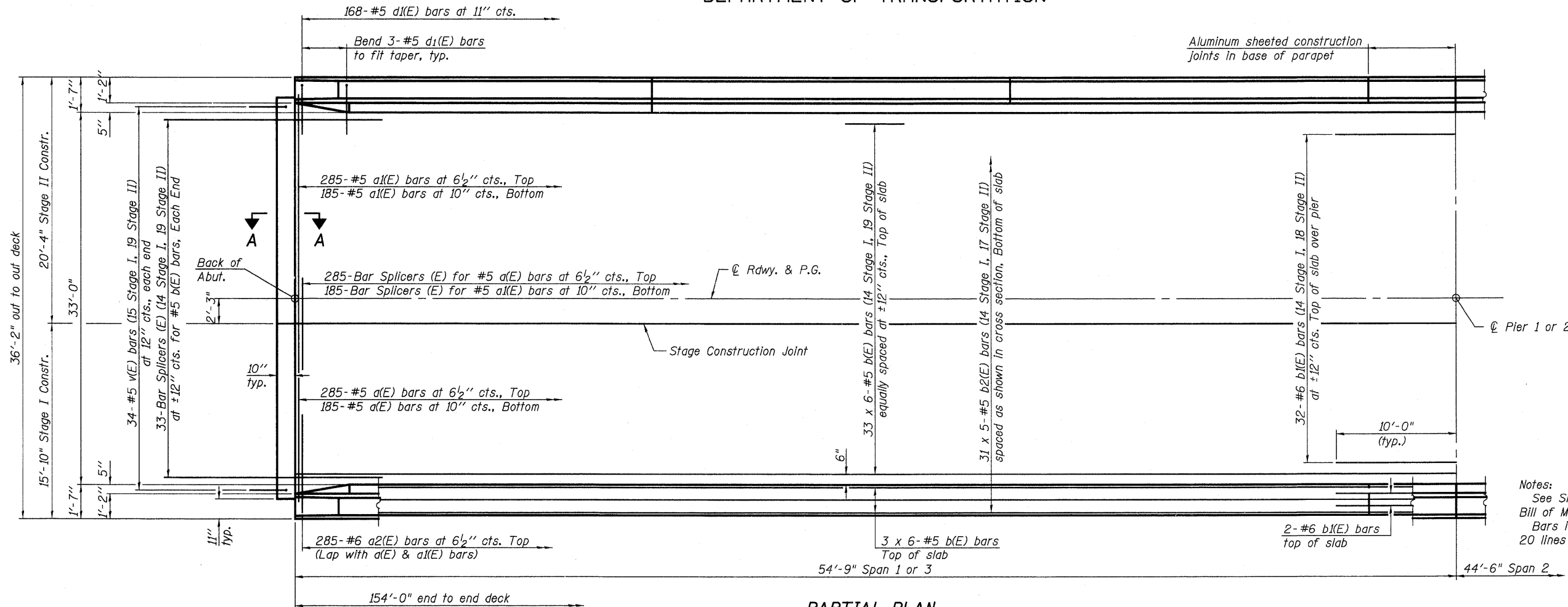
SHEET 6 OF 19	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	10	410BR-1	GREENE	37	18
		STA. 85+20.50	CONTRACT NO. 76B58		
		FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			

FILE: J:\JUDQ\10163 IL-DBV\18 IL-267 Taylor Creek-FINAL-TaylorCreek\06cpaldblev.dgn

USER: DCD

DATE: 10/07/2008 15:05:03

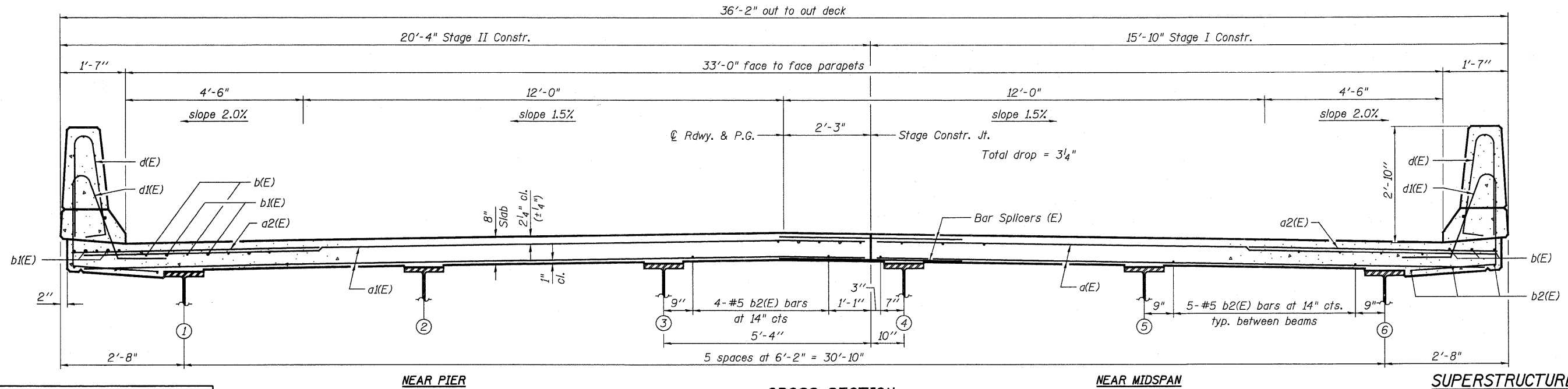
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



PARTIAL PLAN

MIN. BAR LAP
#5 Bar = 2'-2"

Notes:
See Sheet 9 of 19 for superstructure details, Bill of Material and parapet reinforcement. Bars indicated thus 20 x 3-#5 etc. indicates 20 lines of bars with 3 lengths per line.



CROSS SECTION
(Looking South)

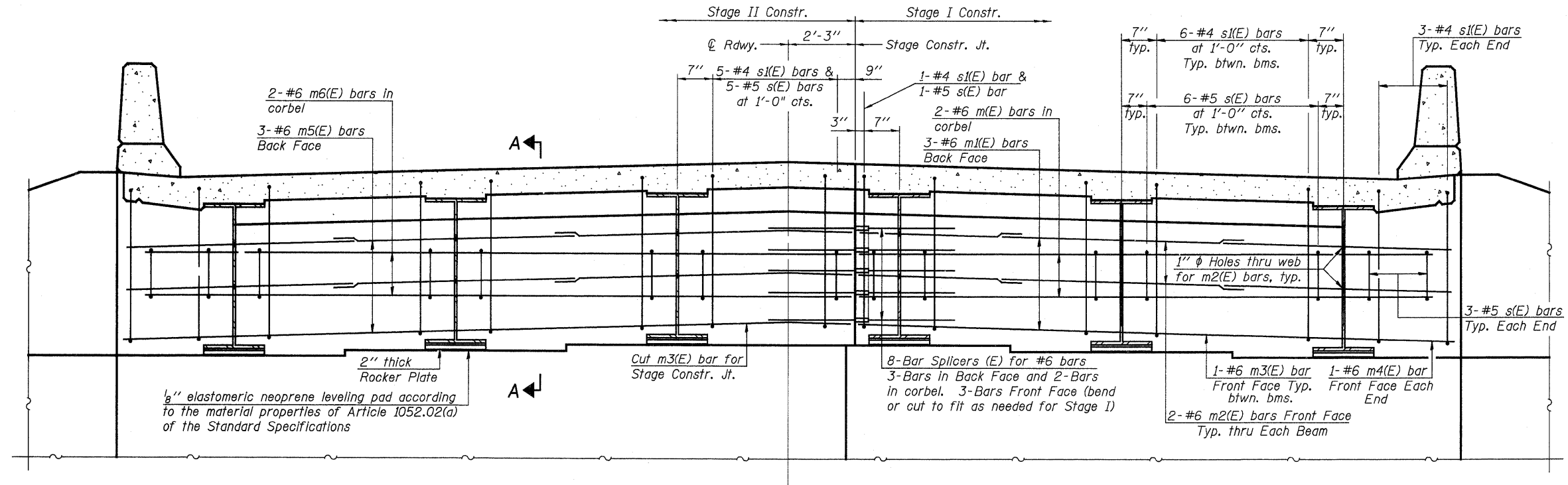
SUPERSTRUCTURE
ILLINOIS 267 OVER
TAYLOR CREEK
STRUCTURE NO. 031-0043

JD Johnson, Depp & Quisenberry CONSULTING ENGINEERS Springfield, Illinois	
DESIGNED: JDQ	DRAWN: PTR
CHECKED: DCD	CHECKED: DCD

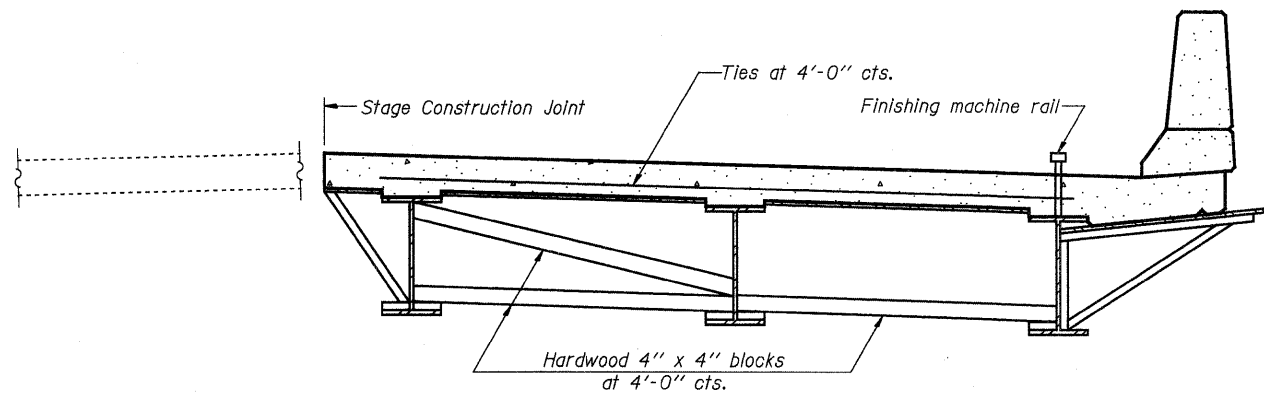
SI-2-0 5-16-08

SHEET 7 OF 19	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	10	410BR-1	GREENE	37	19
	STA. 85+20.50		CONTRACT NO. 76B58		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT			

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



DIAPHRAGM ELEVATION AT ABUTMENT



FORM BRACES FOR STAGE CONSTRUCTION

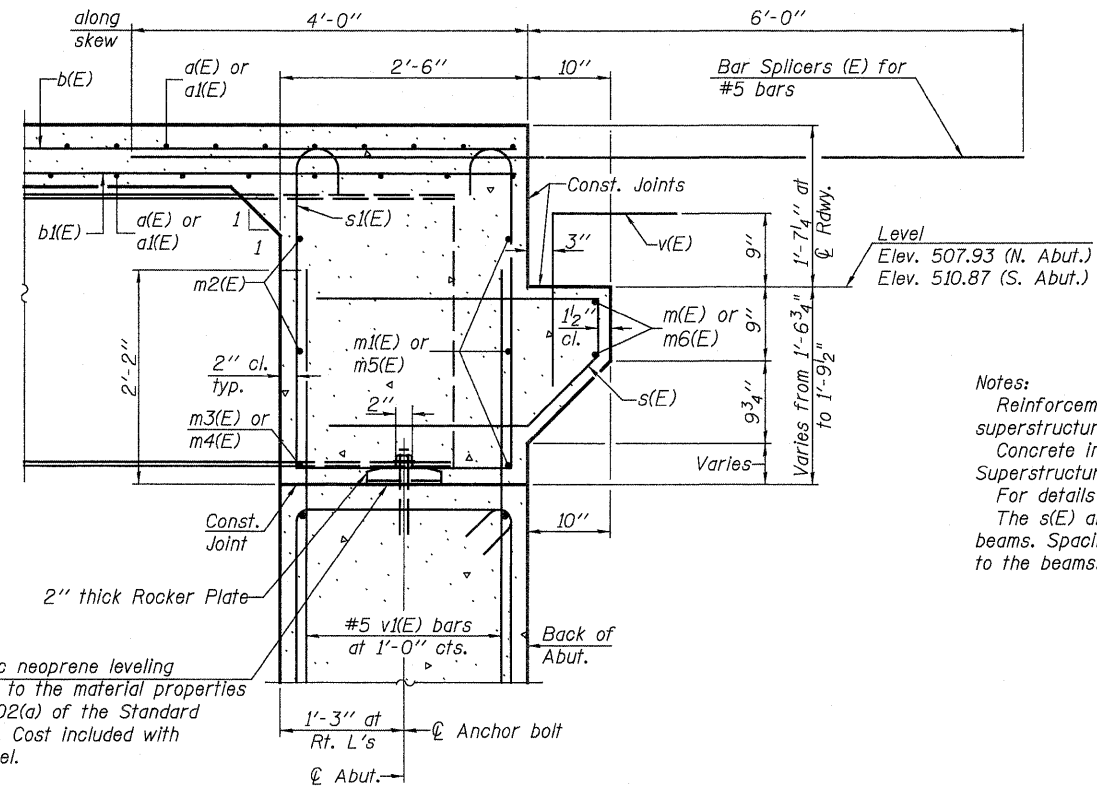
When cantilever forming brackets are used, the work shall be done according to Article 503.06(b) of the Standard Specifications, except as modified below and in the details shown on this sheet.

The finishing machine rails shall be placed on the top flange of the exterior beams.

The beams or girders, supporting cantilever forming brackets, shall be tied together at 4 foot intervals.

For Standard construction, or Stage Construction the Hardwood bracing materials shall be placed as shown between webs of beams in each bay.

1/8" elastomeric neoprene leveling pad according to the material properties of Art. 1052.02(a) of the Standard Specifications. Cost included with Structural Steel.



SECTION A-A

Dimensions at right angles to abutment, except as shown.

Notes:
Reinforcement bars in diaphragm are billed with superstructure on sheet 9 of 19.
Concrete in diaphragm is included with Concrete Superstructure on sheet 9 of 19.
For details of bars s(E) & s1(E) see sheet 9 of 19.
The s(E) and s1(E) bars shall be placed parallel to the beams. Spacing for these bars shall be at right angles to the beams.

MIN. BAR LAP

#6 bar = 2'-7"

INTEGRAL ABUTMENT
DIAPHRAGM DETAILS
ILLINOIS 267 OVER
TAYLOR CREEK
STRUCTURE NO. 031-0043

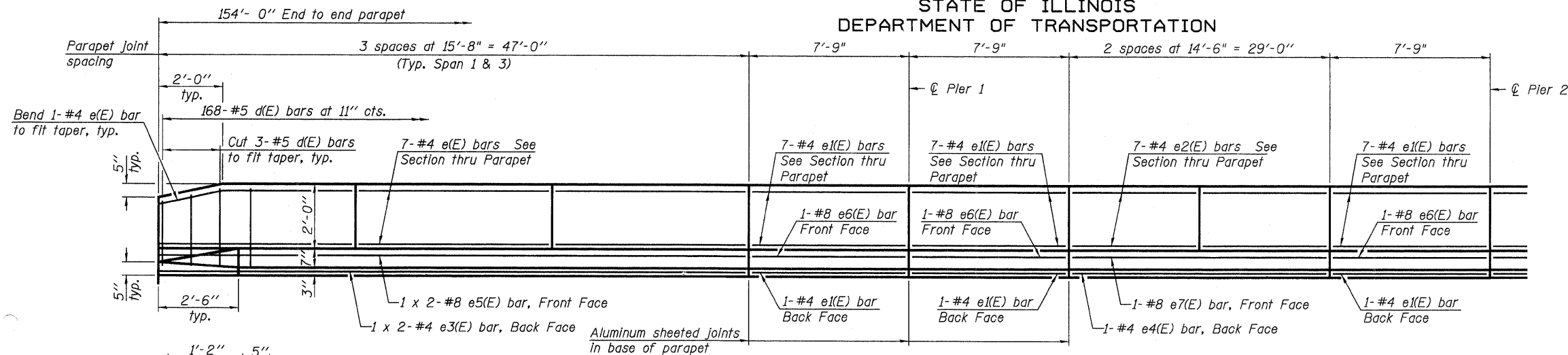
Johnson, Depp & Quisenberry CONSULTING ENGINEERS Springfield, Illinois	
DESIGNED: JDQ	DRAWN: PTR
CHECKED: DCD	CHECKED: DCD

SI-DSI

5-16-08

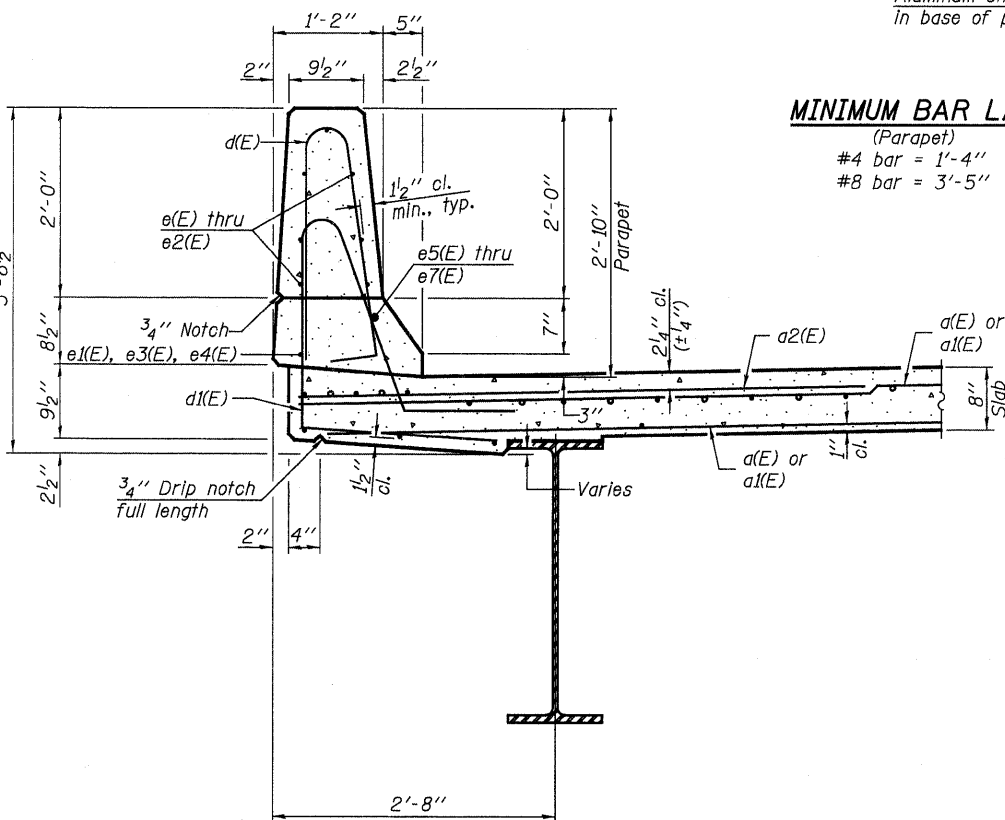
SHEET 8 OF 19	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	10	410BR-1	GREENE	37	20
		STA. 85+20.50	CONTRACT NO. 76B58		
		FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

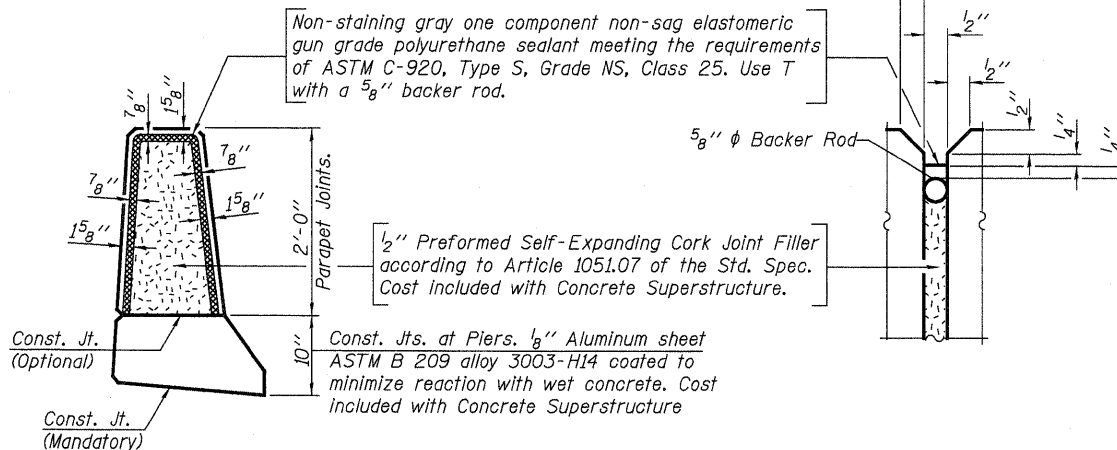


INSIDE ELEVATION OF PARAPET

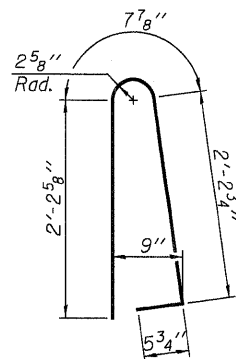
MINIMUM BAR LAP
(Parapet)
#4 bar = 1'-4"
#8 bar = 3'-5"



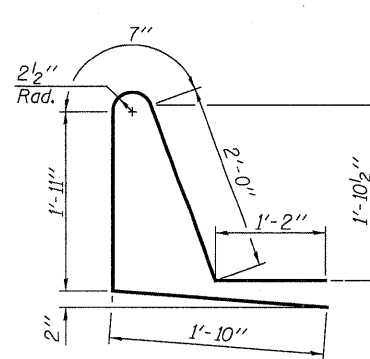
SECTION THRU PARAPET



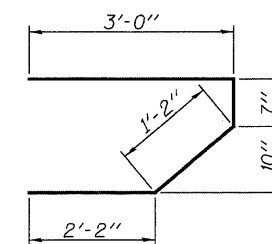
PARAPET JOINT DETAILS



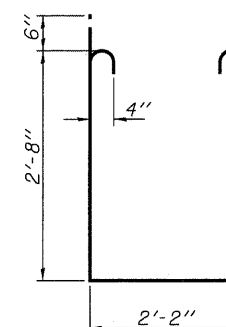
BAR d(E)



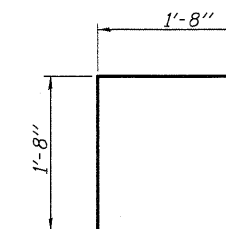
BAR d1(E)



BAR s(E)



BAR s1(E)



BAR v(E)

**SUPERSTRUCTURE
BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
a(E)	470	#5	15'-4"	—
a1(E)	470	#5	19'-10"	—
a2(E)	570	#6	6'-0"	—
b(E)	234	#5	27'-5"	—
b1(E)	72	#6	20'-0"	—
b2(E)	155	#5	32'-6"	—
d(E)	336	#5	5'-7"	U
d1(E)	336	#5	7'-6"	U
e(E)	84	#4	15'-4"	—
e1(E)	64	#4	7'-5"	—
e2(E)	28	#4	14'-2"	—
e3(E)	8	#4	24'-0"	—
e4(E)	2	#4	28'-8"	—
e5(E)	8	#8	25'-1"	—
e6(E)	8	#8	7'-5"	—
e7(E)	2	#8	28'-8"	—
m(E)	4	#6	14'-7"	—
m1(E)	6	#6	15'-6"	—
m2(E)	12	#6	8'-9"	—
m3(E)	10	#6	5'-10"	—
m4(E)	4	#6	2'-4"	—
m5(E)	6	#6	20'-0"	—
m6(E)	4	#6	19'-1"	—
s(E)	72	#5	6'-11"	—
s1(E)	72	#4	8'-6"	—
v(E)	68	#5	3'-4"	—
Reinforcement Bars, Epoxy Coated		Pound	45480	
Concrete Superstructure		Cu. Yds.	191.9	

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

**SUPERSTRUCTURE DETAILS
ILLINOIS 267 OVER
TAYLOR CREEK
STRUCTURE NO. 031-0043**

JD Johnson, Depp & Quisenberry
CONSULTING ENGINEERS
Springfield, Illinois

DESIGNED: JDQ DRAWN: PTR
CHECKED: DCD CHECKED: DCD

S-I-D 5-16-08

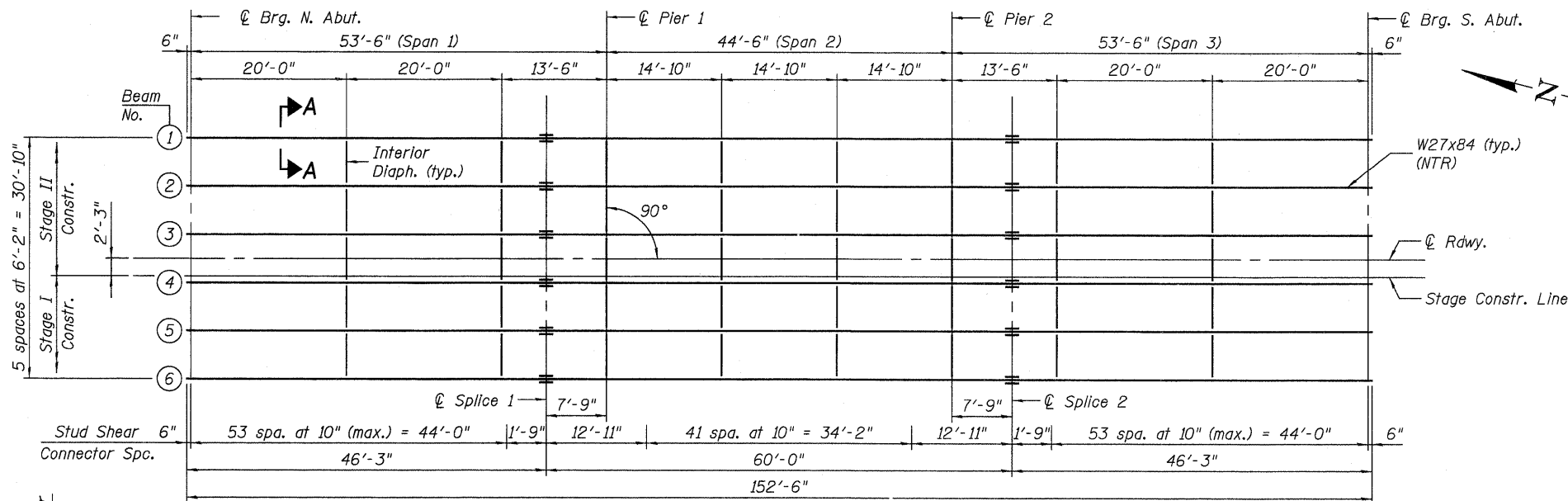
SHEET 9 OF 19	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	10	410BR-1	GREENE	37	21
STA. 85+20.50		CONTRACT NO. 76B58			
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT			

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

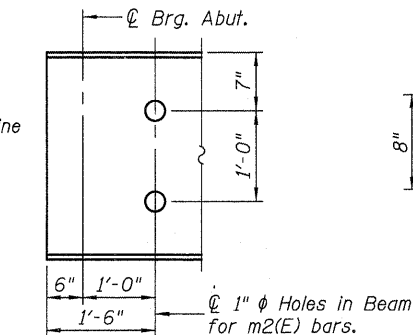
TOP OF BEAM ELEVATIONS*

Location	Beam 1	Beam 2	Beam 3	Beam 4	Beam 5	Beam 6
℄ Brg. N. Abut.	508.59	508.70	508.80	508.80	508.70	508.59
℄ Splice 1	509.43	509.54	509.63	509.63	509.54	509.43
℄ Pier 1	509.58	509.69	509.78	509.78	509.69	509.58
℄ Pier 2	510.43	510.54	510.63	510.63	510.54	510.43
℄ Splice 2	510.58	510.69	510.78	510.78	510.69	510.58
℄ Brg. S. Abut.	511.50	511.61	511.70	511.70	511.61	511.50

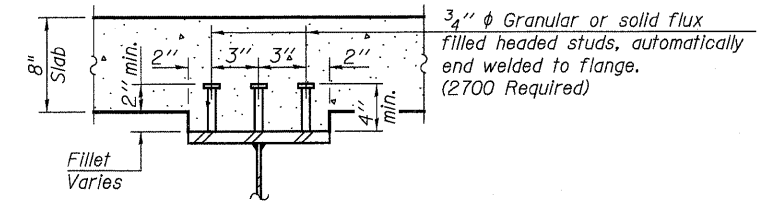
* For Fabrication only. (Theoretical elevations before dead load deflection.)



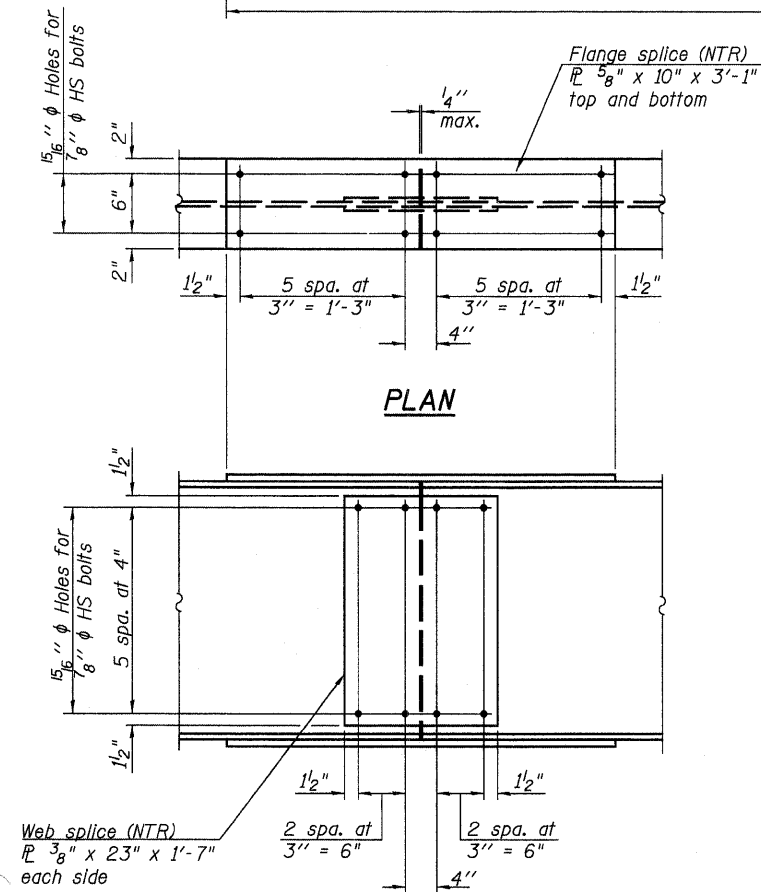
FRAMING PLAN



END OF BEAM AT ABUTMENTS



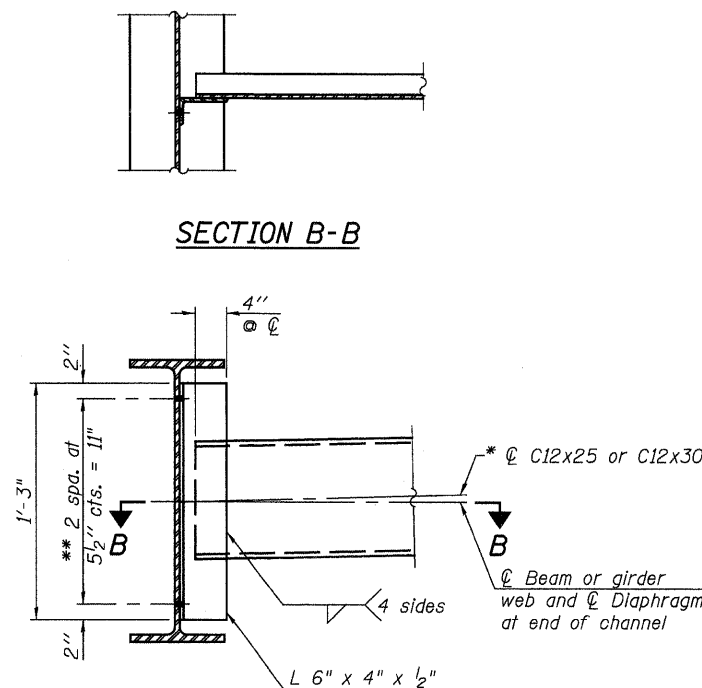
SECTION A-A



PLAN

ELEVATION

SPLICE DETAIL
(12 Required)



SECTION B-B

INTERIOR DIAPHRAGM
(40 Required)

Note:
Two hardened washers required for each set of oversized holes.

* Alternate channels are permitted to facilitate material acquisition. Calculated weight of structural steel is based on the lighter section.
** 3/4 inch diameter HS bolts, 15/16 inch diameter holes

	INTERIOR GIRDER MOMENT TABLE		
	0.4 Sp. 1 or 0.6 Sp. 3	Pier 1 or 2	0.5 Span 2
I_s	(in ⁴) 2850	2850	2850
$I_o(n)$	(in ⁴) 8510	2850	8510
$I_o(3n)$	(in ⁴) 6391	2850	6391
S_s	(in ³) 213	213	213
$S_o(n)$	(in ³) 327	213	327
$S_o(3n)$	(in ³) 296	213	296
Z	(in ³) ---	---	---
DC1	(k/ft) 0.724	0.724	0.724
M _{DC1}	(k) 176	182	-2
DC2	(k/ft) 0.150	0.150	0.150
M _{DC2}	(k) 41	28	10
DW	(k/ft) 0.275	0.275	0.275
M _{DW}	(k) 74	51	17
M _{℄ + IM}	(k) 566	274	391
M _u (Strength I)	(k) 1373	819	720
* $\phi_r M_{nc}$, $\phi_r M_{ne}$	(k) 1773	973	1773
f_s DC1	(ksi) 9.9	10.3	-0.1
f_s DC2	(ksi) 1.7	1.6	0.4
f_s DW	(ksi) 3.0	2.9	0.7
f_s 1.3(℄ + IM)	(ksi) 27.0	20.1	18.7
f_s (Service II)	(ksi) 41.6	34.9	19.7
** f_s (Total)(Strength I)	(ksi) ---	---	---
V _r	(k) 23.4	---	20.6

* Compact sections
** Non-Compact and slender sections

	INTERIOR GIRDER REACTION TABLE	
	Abut.	Pier
R _{DC1}	(k) 16.0	38.8
R _{DC2}	(k) 3.5	7.9
R _{DW}	(k) 6.4	14.4
R _{℄ + IM}	(k) 63.0	85.5
R _{Total}	(k) 88.9	146.6

Notes:
All structural steel shall be AASHTO M270 Gr. 50W.
Load carrying components designated "NTR" shall conform to the Supplemental Requirements for Notch Toughness, Zone 2.
All cross frames or diaphragms shall be installed as steel is erected and secured with erection pins and bolts except as otherwise noted. Individual cross frames or diaphragms at supports may be temporarily disconnected to install bearing anchor rods.

I_s , S_s : Non-composite moment of inertia and section modulus of the steel section used for computing f_s (Total-Strength I, and Service II) due to non-composite dead loads (in⁴ and in³).
 $I_o(n)$, $S_o(n)$: Composite moment of inertia and section modulus of the steel and deck based upon the modular ratio, "n", used for computing f_s (Total-Strength I, and Service II) due to short-term composite live loads (in⁴ and in³).
 $I_o(3n)$, $S_o(3n)$: Composite moment of inertia and section modulus of the steel and deck based upon 3 times the modular ratio, "3n", used for computing f_s (Total-Strength I, and Service II) due to long-term composite (superimposed) dead loads (in⁴ and in³).
Z: Plastic Section Modulus of the steel section in non-composite areas. Omit line in Moment Table if not used in design calculations (in³).
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_{℄ + IM}: Un-factored live load moment plus dynamic load allowance (impact) (kip-ft.).
M_u (Strength I): Factored design moment (kip-ft.).
1.25 (M_{DC1} + M_{DC2}) + 1.5 M_{DW} + 1.75 M_{℄ + IM}
 $\phi_r M_{nc}$: Compact composite positive moment capacity computed according to Article 6.10.7.1 (kip-ft.).
 $\phi_r M_{ne}$: Compact non-composite negative moment capacity computed according to Article A6.1.1 (kip-ft.).
 f_s (Service II): Sum of stresses as computed from the moments below (ksi).
 f_s (Total)(Strength I): Sum of stresses as computed from the moments below on non-compact section (ksi).
1.25 (M_{DC1} + M_{DC2}) + 1.5 M_{DW} + 1.75 M_{℄ + IM}
V_r: Maximum factored shear range in composite portion of span computed according to Article 6.10.10.

STRUCTURAL STEEL & FRAMING PLAN
ILLINOIS 267 OVER
TAYLOR CREEK
STRUCTURE NO. 031-0043

SHEET 11 OF 19	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	10	410BR-1	GREENE	37	23
		STA. 85+20.50	CONTRACT NO. 76B58		
		FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT		

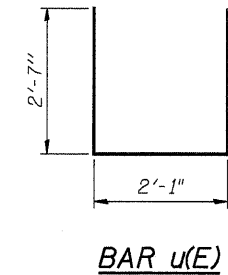
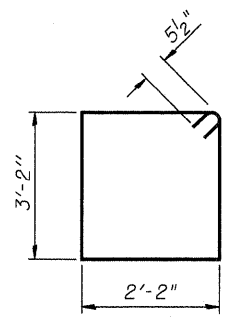
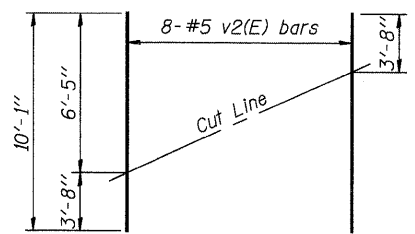
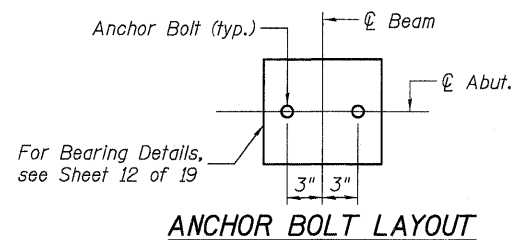
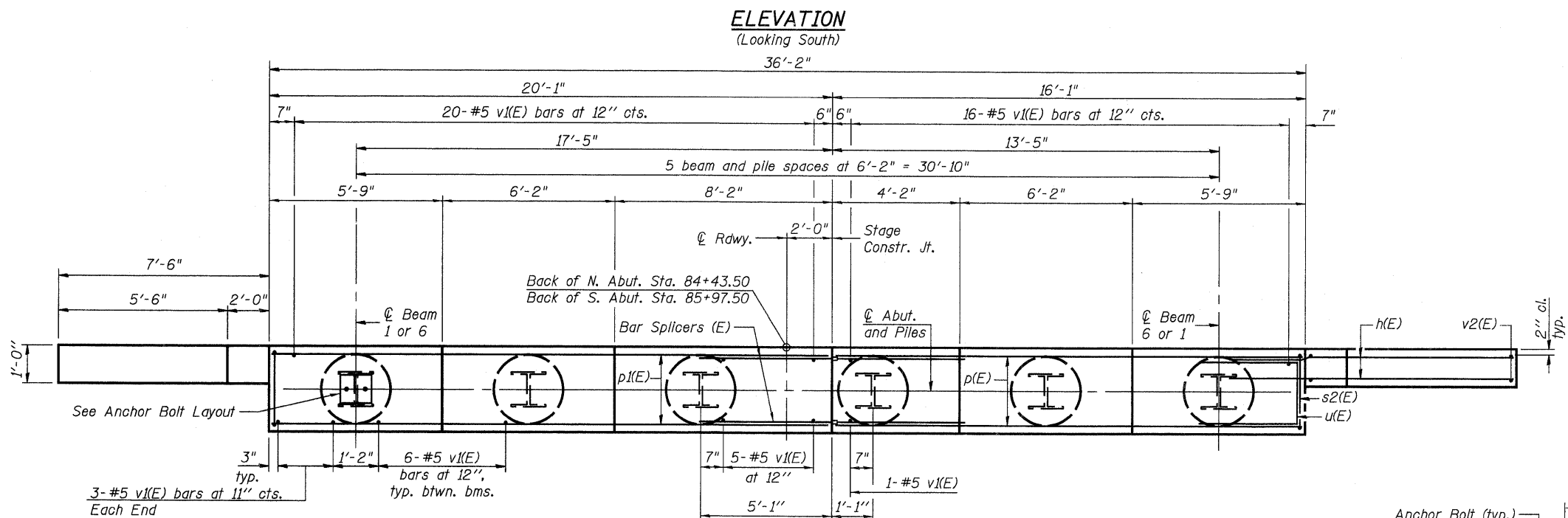
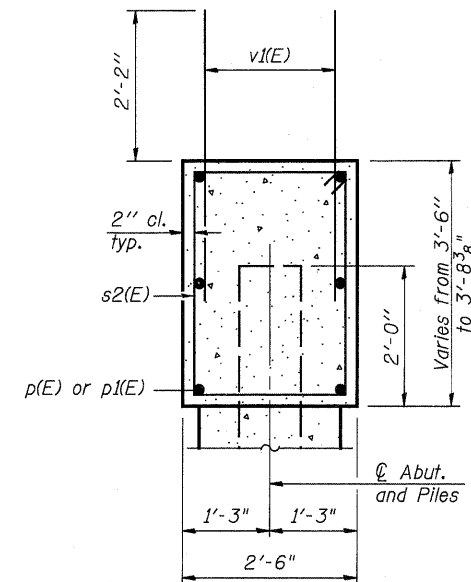
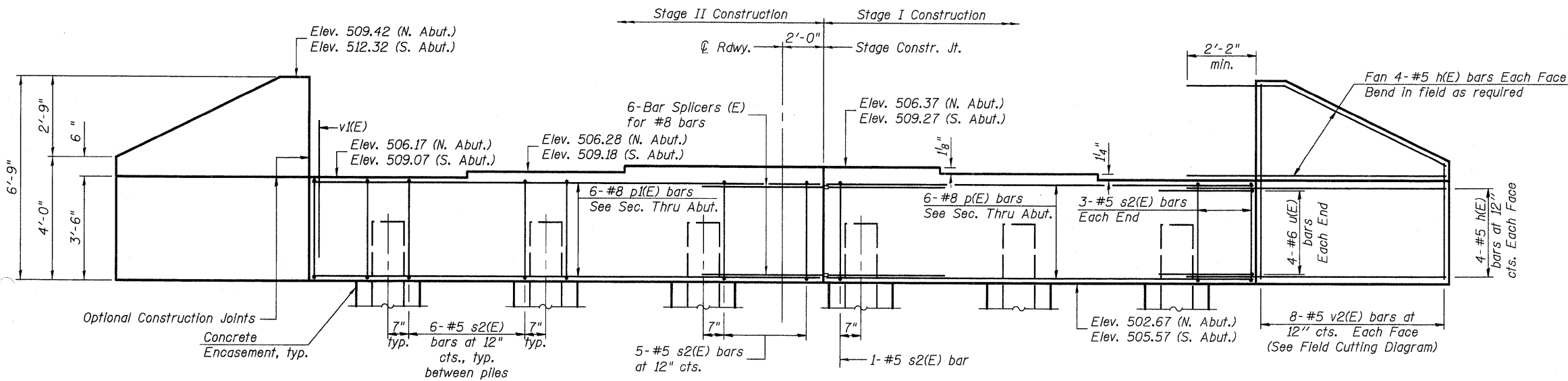
Johnson, Depp & Quisenberry
CONSULTING ENGINEERS
Springfield, Illinois

DESIGNED: JDQ	DRAWN: SJS
CHECKED: DCD	CHECKED: DCD

FILE: J:\DOCS\1063 IL-DBVW\8 IL 267 Taylor Creek-FINAL-V-TaylorCreek\Struct\steel.dgn
DATE: 10/07/2008 15:06:16
USER: DCD

Notes: Pour steps monolithically with cap.
Elevations are symmetrical.

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



BILL OF MATERIAL

Bar	No.	Size	Length	Shape		
h(E)	32	#5	9'-6"			
p(E)	6	#8	15'-9"			
p1(E)	6	#8	19'-9"			
s2(E)	36	#5	11'-7"			
u(E)	8	#6	7'-3"			
v1(E)	72	#5	4'-4"			
v2(E)	16	#5	10'-1"			
					N. Abut.	S. Abut.
Structure Excavation		Cu. Yd.			106	118
Concrete Structures		Cu. Yd.			15.2	15.2
Reinforcement Bars, Epoxy Coated		Pound			1910	1910
Furnishing Steel Piles HP12x53		Foot			525	525
Driving Piles		Foot			525	525
Test Pile Steel HP12x53		Each			1	1
Pile Shoes		Each			6	6
Concrete Encasement		Cu. Yd.			2.1	2.1

For details of Bar Splicers, see sheet 16 of 19.
For details of Piles and Concrete Encasement, see sheet 15 of 19.
Reinforcement Bar list is for one Abutment only.

NORTH AND SOUTH ABUTMENTS
ILLINOIS 267 OVER
TAYLOR CREEK
STRUCTURE NO. 031-0043

PILE DATA
Type: Steel-HP 12x53 with Pile Shoes
Nominal Required Bearing: 270 kips
Factored Resistance Available: 135 kips
Est. Length: 105' (each Abut.)
No. Production Piles: 5 (each Abut.)
No. Test Piles: 1 (each Abut.)

Johnson, Depp & Quisenberry CONSULTING ENGINEERS Springfield, Illinois	
DESIGNED: JDQ	DRAWN: SJS
CHECKED: DCD	CHECKED: DCD

AI-0 5-16-08

SHEET 13 OF 19	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	10	410BR-1	GREENE	37	25
		STA. 85+20.50		CONTRACT NO. 76B58	
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT			

Notes:
 Pour steps monolithically with cap.
 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.

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

MIN. BAR LAP

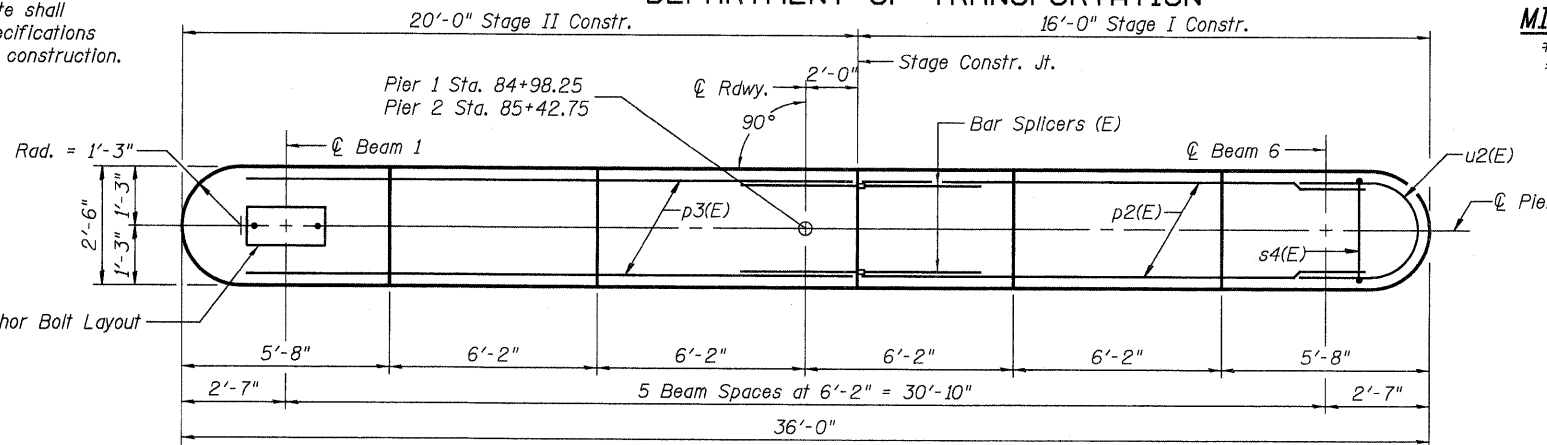
#5 Bar = 2'-2"
 #6 bar = 2'-7"

PILE DATA

Type: Steel-HP 12x63 with Pile Shoes
 Nominal Required Bearing: 470 kips
 Factored Resistance Available: 235 kips
 Est. Length: 105' (each Pier)
 No. Production Piles: 5 (each Pier)
 No. Test Piles: 1 (each Pier)

TABLE OF ELEVATIONS

Location	A	B	C	D	E
Pier 1	480.40	504.57	507.07	507.18	507.27
Pier 2	480.42	505.42	507.92	508.03	508.12



TOP PLAN

6- #5 s4(E) bars at 12" cts.
 (typ. between piles)

5- #5 s4(E) bars at 12" cts.

1- #5 s4(E) bar

3- Bar Splicers (E) for #6 bars (Each Face)

3- #6 p3(E) bars Ea. Face

3- #6 p2(E) bars Ea. Face

1- #5 s4(E) bar Each End

3- #6 u2(E) bars Each End

19- #5 v3(E) bars at 12" cts. Each Face

15- #5 v3(E) bars at 12" cts. Each Face

3- #5 v3(E) bars Each End

25- #5 h2(E) bars at 12" cts. Each Face

25 Bar Splicers (E) for #5 bars at 12" cts. Each Face

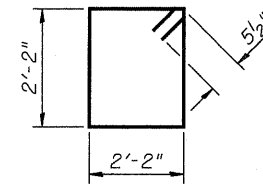
25- #5 h1(E) bars at 12" cts. Each Face

25- #5 u1(E) bars at 12" cts. Each End

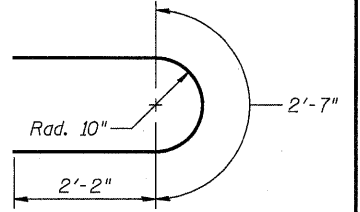
Anchor Bolt (typ.)

For Bearing Details, see Sheet 12 of 19

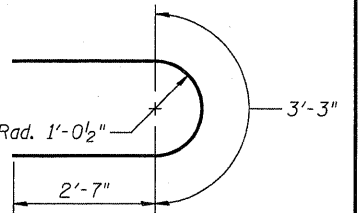
ANCHOR BOLT LAYOUT



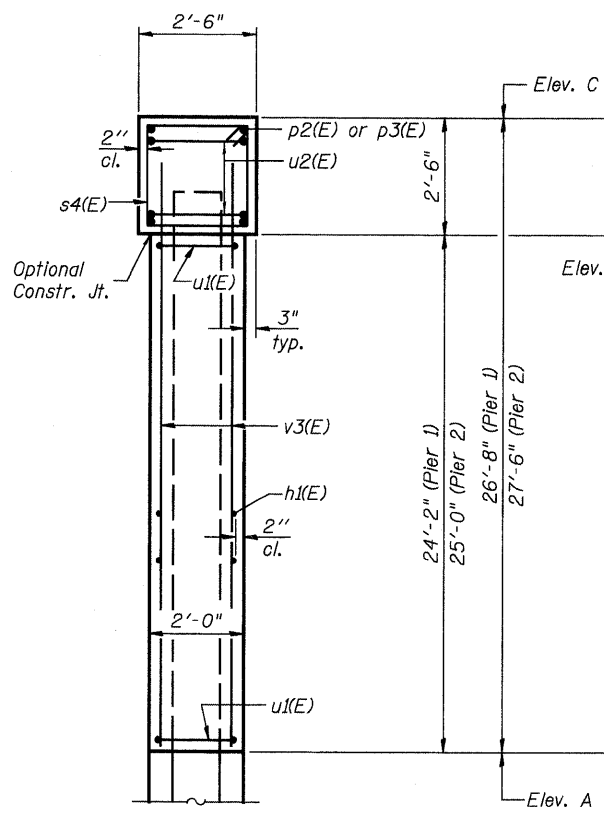
BAR s4(E)



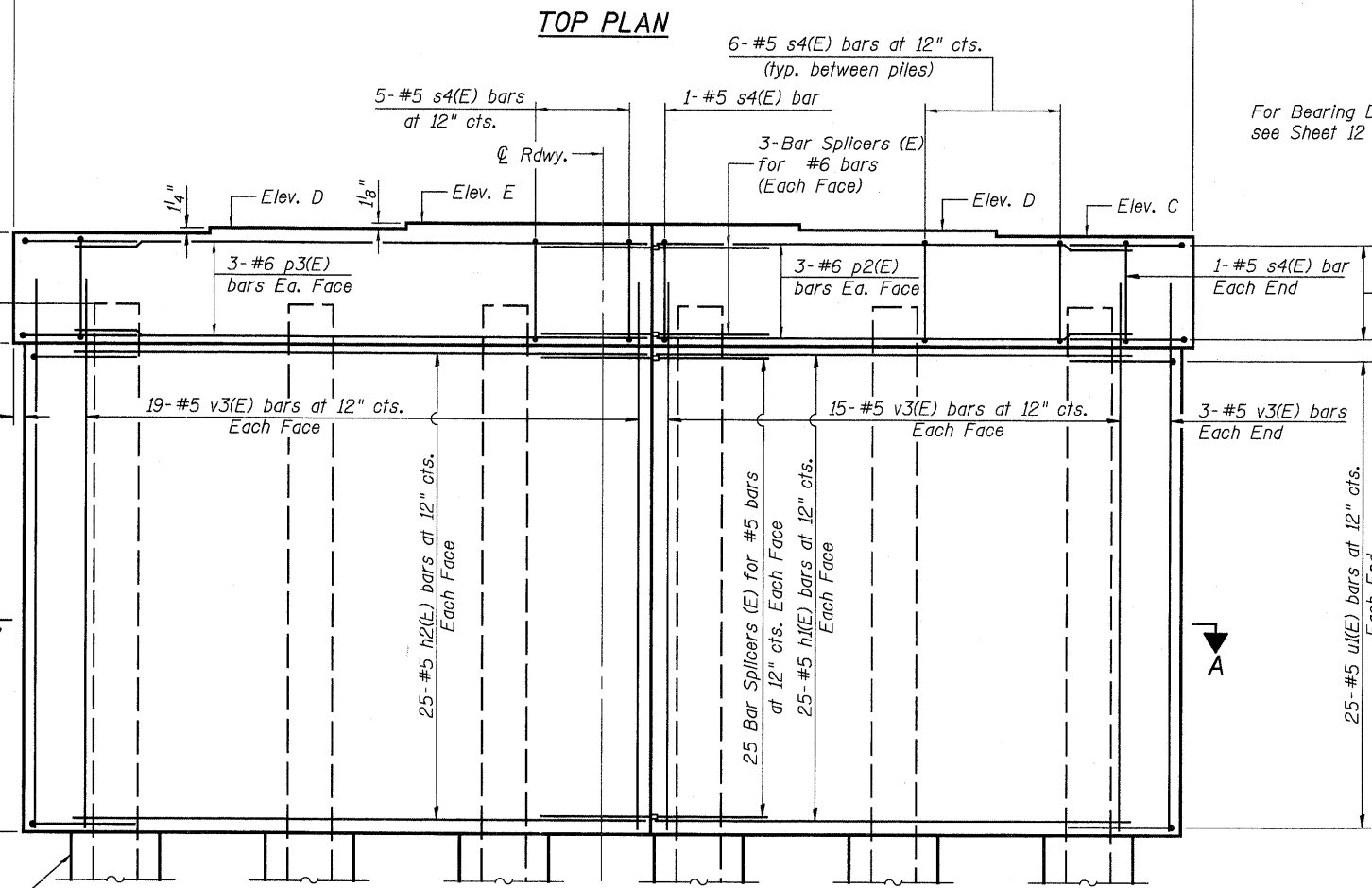
BAR u1(E)



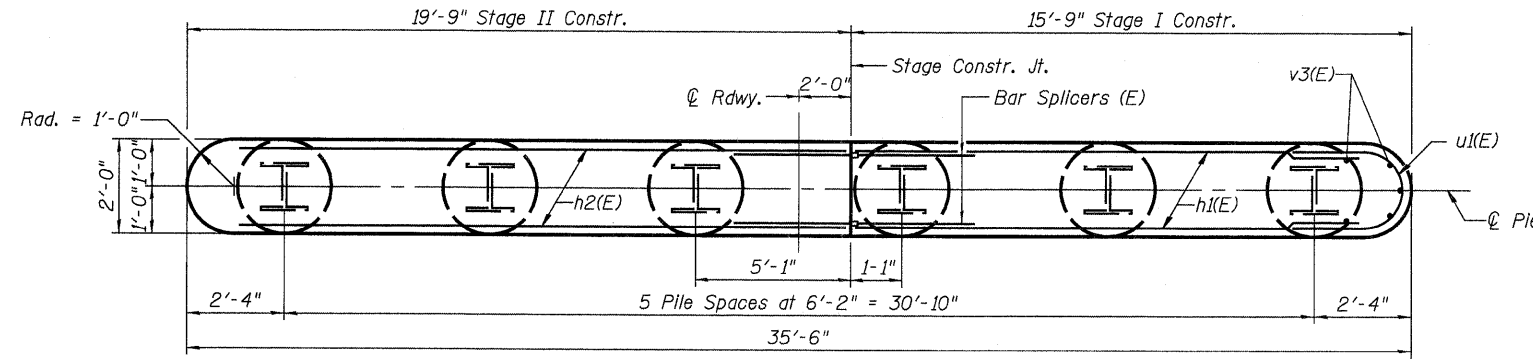
BAR u2(E)



END VIEW



ELEVATION (Looking South)



SECTION A-A

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h1(E)	50	#5	14'-7"	—
h2(E)	50	#5	18'-7"	—
p2(E)	6	#6	14'-7"	—
p3(E)	6	#6	18'-7"	—
s4(E)	32	#5	9'-7"	□
u1(E)	50	#5	6'-11"	U
u2(E)	6	#6	8'-5"	U
v3(E)	68	#5	26'-0"	—

		Pier 1	Pier 2
Concrete Structures	Cu. Yd.	71.3	73.5
Reinforcement Bars, Epoxy Coated	Pound	4630	4630
Furnishing Steel Piles HP12x63	Foot	525	525
Driving Piles	Foot	525	525
Test Pile Steel HP12x63	Each	1	1
Pile Shoes	Each	6	6
Concrete Encasement	Cu. Yd.	2.1	2.1

Reinforcement Bar list is for one Pier only.
 For details of Bar Splicers, see sheet 16 of 19.
 For details of piles and Concrete Encasement, see sheet 15 of 19.

PIERS 1 AND 2
 ILLINOIS 267 OVER
 TAYLOR CREEK
 STRUCTURE NO. 031-0043

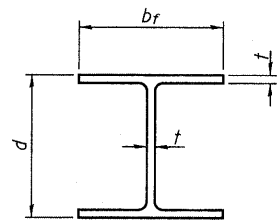
SHEET 14 OF 19	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	10	410BR-1	GREENE	37	26
	STA. 85+20.50		CONTRACT NO. 76B58		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT			

JD Johnson, Depp & Quisenberry
 CONSULTING ENGINEERS
 Springfield, Illinois

DESIGNED: JDQ	DRAWN: PTR
CHECKED: DCD	CHECKED: DCD

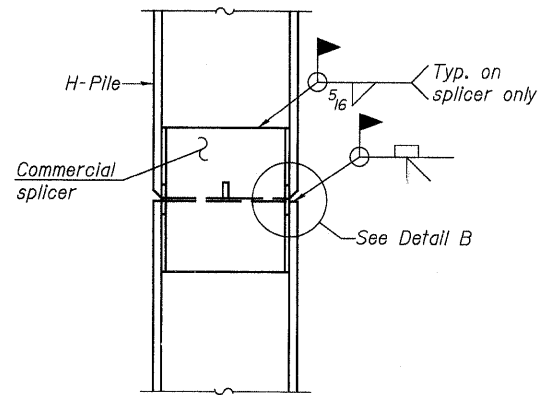
FILE: J:\JDO\1063 IL-DBVW#8 IL 267 Taylor Creek-FINAL.V-Taylor-Creek\Mapier.scd
 USER: DCD
 DATE: 10/07/2008 15:06:25

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

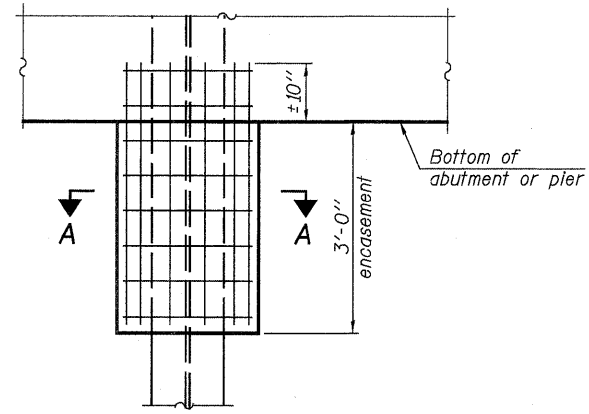


STEEL PILE TABLE

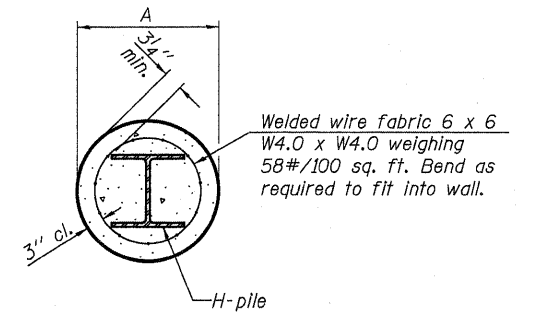
Designation	Depth d	Flange width br	Web and Flange thickness t	Encasement diameter A
HP 14x117	14 1/4"	14 7/8"	13/16"	30"
x102	14"	14 3/4"	1/16"	30"
x89	13 7/8"	14 3/4"	5/8"	30"
x73	13 5/8"	14 5/8"	1/2"	30"
HP 12x84	12 1/4"	12 1/4"	1/16"	24"
x74	12 1/8"	12 1/4"	5/8"	24"
x63	12"	12 1/8"	1/2"	24"
x53	11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



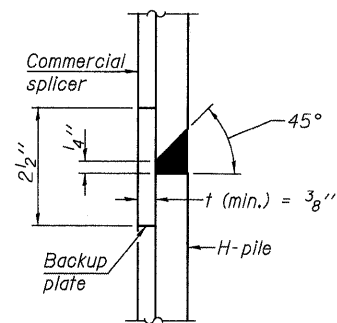
ELEVATION



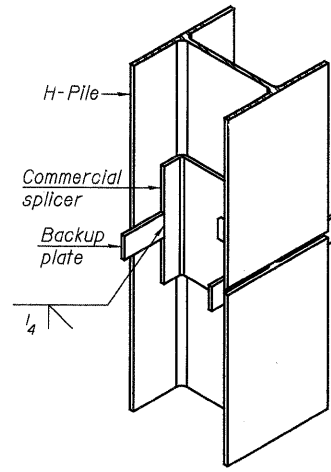
SECTION A-A

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

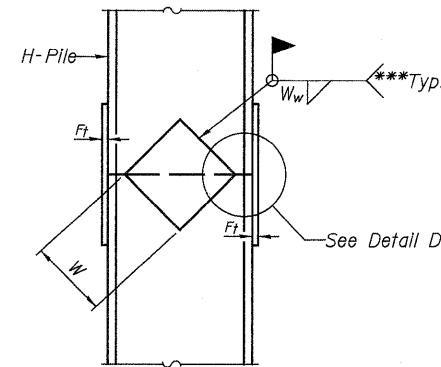
PILE ENCASEMENT



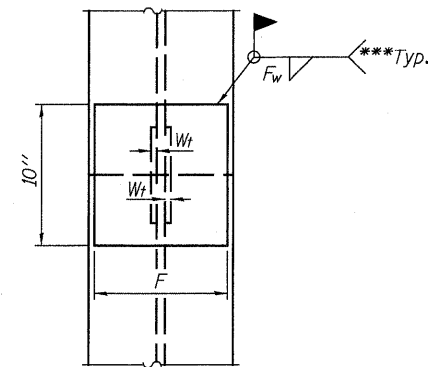
DETAIL "B"



ISOMETRIC VIEW

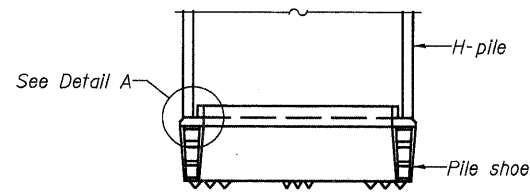


ELEVATION

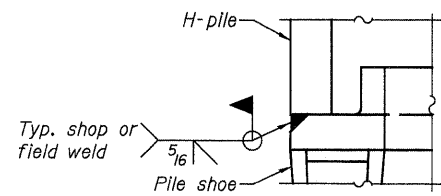


END VIEW

WELDED COMMERCIAL SPLICE

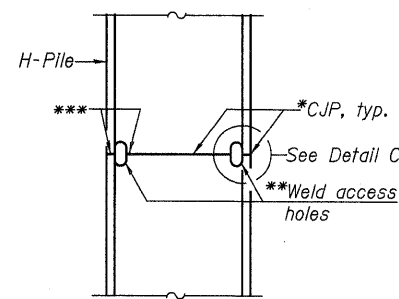


ELEVATION

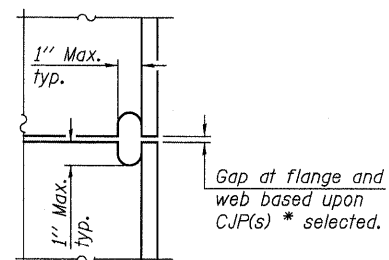


DETAIL A

H-PILE SHOE ATTACHMENT

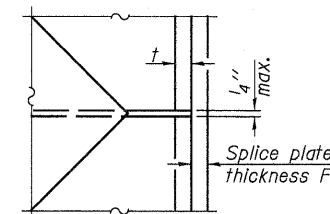


ELEVATION



DETAIL C

COMPLETE PENETRATION WELD SPLICE



DETAIL D

WELDED PLATE FIELD SPLICE

Designation	F	Ft	Fw	W	Wt	Ww
HP 14x117	12 1/2"	1"	7/8"	7 3/4"	5 1/2"	1/2"
x102	12 1/2"	7/8"	3/4"	7 3/4"	5 1/2"	1/2"
x89	12 1/2"	3/4"	1/16"	7 3/4"	5 1/2"	1/2"
x73	12 1/2"	5/8"	9/16"	7 3/4"	5 1/2"	1/2"
HP 12x84	10"	7/8"	1/16"	6 1/2"	5 1/2"	1/2"
x74	10"	7/8"	1/16"	6 1/2"	5 1/2"	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"

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

*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 1/4" from end of each pile.

JD Johnson, Depp & Quisenberry
CONSULTING ENGINEERS
Springfield, Illinois

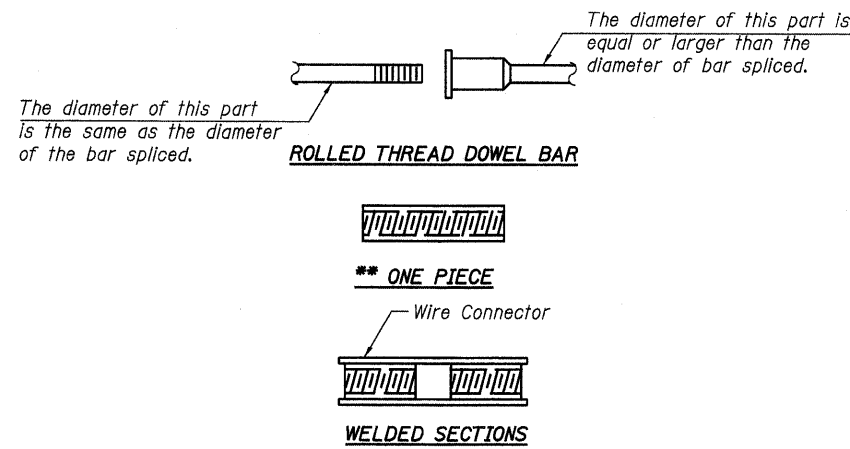
DESIGNED: JDQ	DRAWN: SJS
CHECKED: DCD	CHECKED: DCD

F-HP 5-16-08

HP PILE DETAILS
ILLINOIS 267 OVER
TAYLOR CREEK
STRUCTURE NO. 031-0043

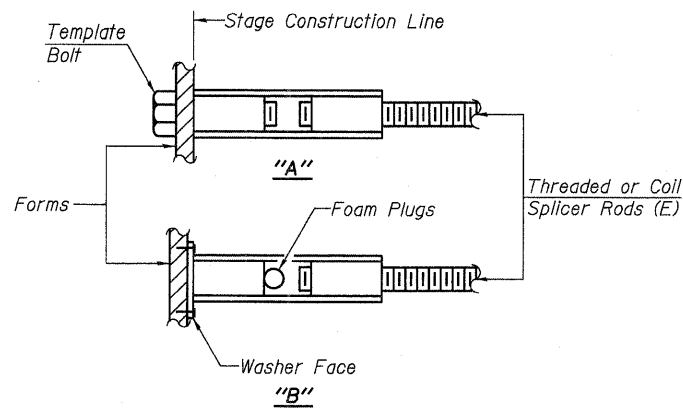
SHEET 15 OF 19	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	10	410BR-1	GREENE	37	27
	STA. 85+20.50		CONTRACT NO. 76B58		
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT					

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



BAR SPLICER ASSEMBLY ALTERNATIVES

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



INSTALLATION AND SETTING METHODS

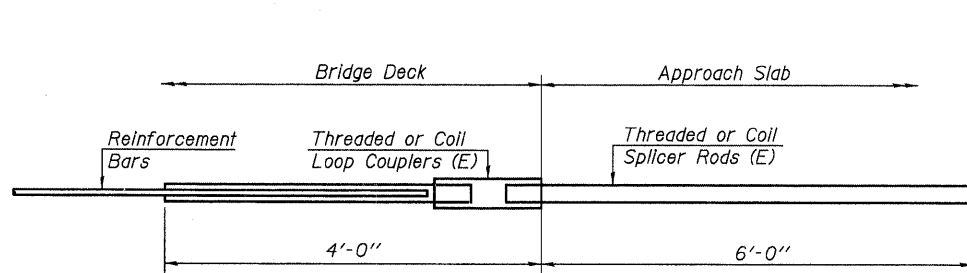
"A" :Set bar splicer assembly by means of a template bolt.
"B" :Set bar splicer assembly by nailing to wood forms or cementing to steel forms.
(E) : Indicates epoxy coating.

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:

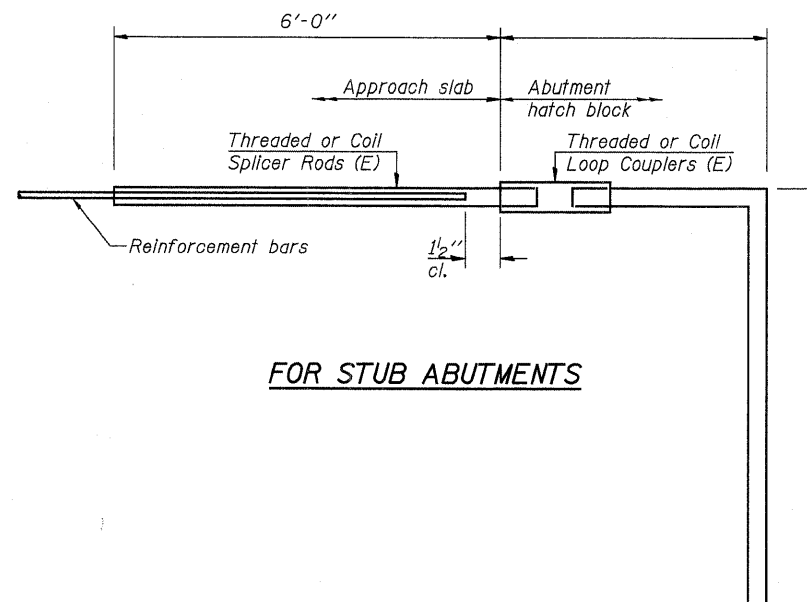
- ① Minimum Capacity (Tension in kips) = $1.25 \times f_y \times A_t$
 - ② Minimum *Pull-out Strength (Tension in kips) = $0.66 \times f_y \times A_t$
- Where f_y = Yield strength of lapped reinforcement bars in ksi.
 A_t = Tensile stress area of lapped reinforcement bars.
* = 28 day concrete

Bar 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



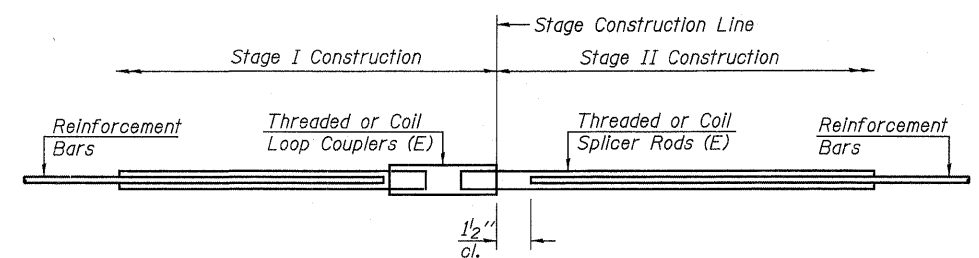
FOR INTEGRAL OR SEMI-INTEGRAL ABUTMENTS

Bar Splicer for #5 bar	
Min. Capacity = 23.0 kips - tension	
Min. Pull-out Strength = 12.3 kips - tension	
No. Required = 66	



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	470	Deck
#6	16	Abut. Diaph.
#8	12	Abutments
#6	12	Piers
#5	100	Piers

JD Johnson, Depp & Quisenberry
CONSULTING ENGINEERS
Springfield, Illinois

DESIGNED: JDQ	DRAWN: SJS
CHECKED: DCD	CHECKED: DCD

BSD-1 5-16-08

BAR SPLICER ASSEMBLY DETAILS
ILLINOIS 267 OVER
TAYLOR CREEK
STRUCTURE NO. 031-0043

SHEET 16 OF 19	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	10	410BR-1	GREENE	37	28
	STA. 85+20.50		CONTRACT NO. 76B58		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT			

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



SOIL BORING LOG

Page 1 of 3

Date 2/19, 27/2008

ROUTE FAP Route 10 DESCRIPTION IL Route 267 Bridge Replacement over Taylor Creek LOGGED BY Terra Drill/SCI
SECTION 410BR-1 LOCATION Rockbridge Township, SEC. 28, TWP. 10N, RNG. 10W
COUNTY Greene DRILLING METHOD CME 550 w/HSA HAMMER TYPE Automatic

STRUCT. NO. Station	BORING NO. Station	DEPTH H	BULGE L	SHEAR C	PENETROMETER U	MOISTURE M	Surface Water Elev. ft	Stream Bed Elev. ft	Groundwater Elev.: First Encounter Upon Completion After - Hrs.	DEPTH H	BULGE L	SHEAR C	PENETROMETER U	MOISTURE M
Existing 031-0018	B-1	85+04							483.7 ft					
TOPSOIL - 4 Inches														
SILTY CLAY: Brown low plastic, some sand (A-6)														
CLAYEY SILT: Brown, low plastic (A-4)														
SAND: Brown, fine to medium (A-3)														
CLAY: Brown, high plastic (A-7)														
CLAYEY SAND: Gray, fine to medium (A-2)														
CLAY: Gray, high plastic, trace organics (A-7)														
SAND: Gray, fine to coarse trace gravel (A-1) and CLAYEY SAND: Gray, fine to medium (A-2)														
CLAY: Brown, high plastic, some sand, trace gravel (A-7)														
Becomes gray														

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
AASHTO Classifications are based on visual classifications unless otherwise noted BBS, form 137 (Rev. 8-99)



SOIL BORING LOG

Page 2 of 3

Date 2/19, 27/2008

ROUTE FAP Route 10 DESCRIPTION IL Route 267 Bridge Replacement over Taylor Creek LOGGED BY Terra Drill/SCI
SECTION 410BR-1 LOCATION Rockbridge Township, SEC. 28, TWP. 10N, RNG. 10W
COUNTY Greene DRILLING METHOD CME 550 w/HSA HAMMER TYPE Automatic

STRUCT. NO. Station	BORING NO. Station	DEPTH H	BULGE L	SHEAR C	PENETROMETER U	MOISTURE M	Surface Water Elev. ft	Stream Bed Elev. ft	Groundwater Elev.: First Encounter Upon Completion After - Hrs.	DEPTH H	BULGE L	SHEAR C	PENETROMETER U	MOISTURE M
Existing 031-0018	B-1	85+04							483.7 ft					
CLAY: Brown, high plastic, some sand, trace gravel (A-7) (continued)														
SAND: Brown, fine to medium, trace gravel (A-3) (continued)														
Grades to trace organics														
Mud rotary mixture/water added to augers at 45 feet.														
SAND: Brown, fine to medium, trace gravel (A-3)														
Grades to trace gravel														
SAND: Brown, fine to medium, some silt, trace organics and coal (A-2)														

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
AASHTO Classifications are based on visual classifications unless otherwise noted BBS, form 137 (Rev. 8-99)



SOIL BORING LOG

Page 3 of 3

Date 2/19, 27/2008

ROUTE FAP Route 10 DESCRIPTION IL Route 267 Bridge Replacement over Taylor Creek LOGGED BY Terra Drill/SCI
SECTION 410BR-1 LOCATION Rockbridge Township, SEC. 28, TWP. 10N, RNG. 10W
COUNTY Greene DRILLING METHOD CME 550 w/HSA HAMMER TYPE Automatic

STRUCT. NO. Station	BORING NO. Station	DEPTH H	BULGE L	SHEAR C	PENETROMETER U	MOISTURE M	Surface Water Elev. ft	Stream Bed Elev. ft	Groundwater Elev.: First Encounter Upon Completion After - Hrs.	DEPTH H	BULGE L	SHEAR C	PENETROMETER U	MOISTURE M
Existing 031-0018	B-1	85+04							483.7 ft					
SAND: Brown, fine to medium, some silt, trace organics and coal (A-2) (continued)														
SANDY CLAY: Brown, low plastic, some silt, gravel, and coal (A-4)														
Borehole continued with rock coring.														

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
AASHTO Classifications are based on visual classifications unless otherwise noted BBS, form 137 (Rev. 8-99)



DESIGNED: K-E-G DRAWN: SJS
CHECKED: DCD CHECKED: DCD

SOIL BORINGS (1 OF 3)
ILLINOIS 267 OVER
TAYLOR CREEK
STRUCTURE NO. 031-0043

SHEET 17 OF 19	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	10	410BR-1	GREENE	37	29
		STA. 85+20.50	CONTRACT NO. 76B58		
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT					

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



ROCK CORE LOG

Page 1 of 1

Date 2/19, 27/2008

ROUTE FAP Route 10 DESCRIPTION IL Route 267 Bridge Replacement over Taylor Creek LOGGED BY Terra Drill/SCI

SECTION 410BR-1 LOCATION Rockbridge Township, SEC. 28, TWP. 10N, RNG. 10W

COUNTY Greene CORING METHOD Rotary, surface set diamond bit

STRUCT. NO. Existing 031-0018 CORING BARREL TYPE & SIZE NW conv dbl bbl split inner
Station _____ Core Diameter 1.9 In
BORING NO. B-1 Top of Rock Elev. 406.2 ft
Station 85+04 Bgn Core Elev. 406.2 ft
Offset 35 ft Lt.
Ground Surface Elev. 492.2 ft

DEPTH (ft)	REMARKS	RECOVERED (%)	QUANTITY (mln/ft)	STRENGTH (tsf)
406.2	CLAYEY SHALE: Gray	1	90	45
403.3	Moisture content - 10 percent Hand Penetrometer strength test - 4.5 tsf			
403.3	Boring terminated at 89 feet.			
-90				
-95				
-100				
-105				

Color pictures of the cores Yes
Cores will be stored for examination until _____
The "Strength" column represents the uniaxial compressive strength of the core sample (ASTM D-2938)
BBS, form 138 (Rev. 8-99)



SOIL BORING LOG

Page 1 of 2

Date 02/18/08

ROUTE FAP Route 10 DESCRIPTION IL Route 267 Bridge Replacement over Taylor Creek LOGGED BY Terra Drill/SCI

SECTION 410BR-1 LOCATION Rockbridge Township, SEC. 28, TWP. 10N, RNG. 10W

COUNTY Greene DRILLING METHOD CME 550 w/HSA HAMMER TYPE Automatic

STRUCT. NO. Existing 031-0018
Station _____
BORING NO. B-2
Station 86+29
Offset 58 ft Rt.
Ground Surface Elev. 508.2 ft

DEPTH (ft)	REMARKS	RECOVERED (%)	QUANTITY (tsf)	STRENGTH (tsf)
507.1	TOPSOIL - 6 Inches FILL: Brown high plastic clay, some sand (A-7)	0	1.8	18
505.2	FILL: Brown, low plastic silty clay (A-6) and Brown, high plastic clay, some sand, trace brick (A-7)	1	<0.25	22
502.1	FILL: Brown, low plastic silty clay (A-7) and Brown, high plastic clay, some sand, trace gravel (A-7)	1	0.8	20
500.2	CLAY: Brown, high plastic, trace sand and gravel (A-7)	1	0.8	20
497.1	SILTY CLAY: Brown, low plastic, some sand, trace gravel and organics (A-6)	2	1.5	18
495.2	SANDY CLAY: Brown and gray, low plastic, trace gravel (A-6)	3	0.8	14
492.7	CLAY: Brown, high plastic, some sand, trace gravel (A-7)	0	0.5	22
489.7	Becomes brownish gray	2	3.3	14

The Unconfined Compressive Strength (UCS) Failure Mode Is Indicated by (B-Bulge, S-Shear, P-Penetrometer)
AASHTO Classifications are based on visual classifications unless otherwise noted BBS, form 137 (Rev. 8-99)



SOIL BORING LOG

Page 2 of 2

Date 02/18/08

ROUTE FAP Route 10 DESCRIPTION IL Route 267 Bridge Replacement over Taylor Creek LOGGED BY Terra Drill/SCI

SECTION 410BR-1 LOCATION Rockbridge Township, SEC. 28, TWP. 10N, RNG. 10W

COUNTY Greene DRILLING METHOD CME 550 w/HSA HAMMER TYPE Automatic

STRUCT. NO. Existing 031-0018
Station _____
BORING NO. B-2
Station 86+29
Offset 58 ft Rt.
Ground Surface Elev. 508.2 ft

DEPTH (ft)	REMARKS	RECOVERED (%)	QUANTITY (tsf)	STRENGTH (tsf)
485.7	CLAY: Brown, high plastic, some sand, trace gravel (A-7) (continued)	3	2.9	15
483.2	Grades to trace sand and gravel	5	1.2	20
480.7		6	1.2	19
478.2		11	1.1	23
449.7	No recovery Boring terminated at 58.5 feet.	50/114		

The Unconfined Compressive Strength (UCS) Failure Mode Is Indicated by (B-Bulge, S-Shear, P-Penetrometer)
AASHTO Classifications are based on visual classifications unless otherwise noted BBS, form 137 (Rev. 8-99)

JD Johnson, Depp & Quisenberry
CONSULTING ENGINEERS
Springfield, Illinois

DESIGNED: K-E-G DRAWN: SJS
CHECKED: DCD CHECKED: DCD

SOIL BORINGS (2 OF 3)
ILLINOIS 267 OVER
TAYLOR CREEK
STRUCTURE NO. 031-0043

SHEET 18 OF 19	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	10	410BR-1	GREENE	37	30
	STA. 85+20.50		CONTRACT NO. 76B58		
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT					

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



SOIL BORING LOG

Page 1 of 3

Date 02/29/08

ROUTE FAP Route 10 DESCRIPTION IL Route 267 Bridge Replacement over Taylor Creek LOGGED BY Terra Drill/SCI

SECTION 410BR-1 LOCATION Rockbridge Township, SEC. 28, TWP. 10N, RNG. 10W

COUNTY Greene DRILLING METHOD CME 550 w/HSA HAMMER TYPE Automatic

STRUCT. NO. Station	D E P T H	B L O W S	U C S	M O I S T U R E	Surface Water Elev. Stream Bed Elev.	D E P T H	B L O W S	U C S	M O I S T U R E
Existing 031-0018					488.0				
B-3 86+44 56 ft Rt 508.5 ft					497.5 ft				
FILL: Brown, high plastic clay, some gravel (A-7) and Crushed Rock	3								
	18	0.4	25						
FILL: Brown, high plastic clay, some sand (A-7)	2								
	2	1.4	19						
Grades to trace organics	2	<0.25	25						
	1	P							
No recovery	2								
	3								
SANDY CLAY: Brown, low plastic, trace gravel (A-6)	3								
	6	4.0	15						
CLAY: Brown, high plastic, some sand, trace gravel (A-7)	7								
	9	0.6	23						
SANDY CLAY: Brown, low plastic, trace gravel (A-6)	4								
	9	3.1	19						

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
AASHTO Classifications are based on visual classifications unless otherwise noted BBS, form 137 (Rev. 8-99)



SOIL BORING LOG

Page 2 of 3

Date 02/29/08

ROUTE FAP Route 10 DESCRIPTION IL Route 267 Bridge Replacement over Taylor Creek LOGGED BY Terra Drill/SCI

SECTION 410BR-1 LOCATION Rockbridge Township, SEC. 28, TWP. 10N, RNG. 10W

COUNTY Greene DRILLING METHOD CME 550 w/HSA HAMMER TYPE Automatic

STRUCT. NO. Station	D E P T H	B L O W S	U C S	M O I S T U R E	Surface Water Elev. Stream Bed Elev.	D E P T H	B L O W S	U C S	M O I S T U R E
Existing 031-0018					447.5				
B-3 86+44 56 ft Rt 508.5 ft					497.5 ft				
CLAY: Brown, high plastic, some sand, trace gravel (A-7) (continued)									
SAND: Brown, fine to medium (A-3)	7								
	8	2.3	20						
Mud rotary mixture/water added to augers at 65 feet.	9								
	9	B							
Driller encountered broken rock at approximately 46 feet.									
SILT SAND: Brown, fine (A-2)	4								
	6	2.1	21						
No recovery	9								
	11								
Driller encountered broken rock at approximately 52 feet.									
SILT CLAY: Grayish brown, low plastic, trace sand (A-6)	10								
	12								
Grades to trace sand and gravel	10								
	12								

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
AASHTO Classifications are based on visual classifications unless otherwise noted BBS, form 137 (Rev. 8-99)



SOIL BORING LOG

Page 3 of 3

Date 02/29/08

ROUTE FAP Route 10 DESCRIPTION IL Route 267 Bridge Replacement over Taylor Creek LOGGED BY Terra Drill/SCI

SECTION 410BR-1 LOCATION Rockbridge Township, SEC. 28, TWP. 10N, RNG. 10W

COUNTY Greene DRILLING METHOD CME 550 w/HSA HAMMER TYPE Automatic

STRUCT. NO. Station	D E P T H	B L O W S	U C S	M O I S T U R E	Surface Water Elev. Stream Bed Elev.	D E P T H	B L O W S	U C S	M O I S T U R E
Existing 031-0018					408.0				
B-3 86+44 56 ft Rt 508.5 ft					497.5 ft				
SILT CLAY: Grayish brown, low plastic, trace sand (A-6) (continued)									
SAND: Brown, fine to medium (A-3)	7								
	10	2.8	21						
Refusal with tri-cone bit on shale at 100.5 feet.									
SAND: Brown, fine to medium (A-3)	18								
	20								
SILT CLAY: Grayish brown, low plastic, trace sand (A-6)	16								
	18								
SANDY CLAY: Brown, low plastic, some gravel (A-4)	4								
	9	1.0	24						

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
AASHTO Classifications are based on visual classifications unless otherwise noted BBS, form 137 (Rev. 8-99)

JD Johnson, Depp & Quisenberry
CONSULTING ENGINEERS
Springfield, Illinois

DESIGNED: K-E-G DRAWN: SJS
CHECKED: DCD CHECKED: DCD

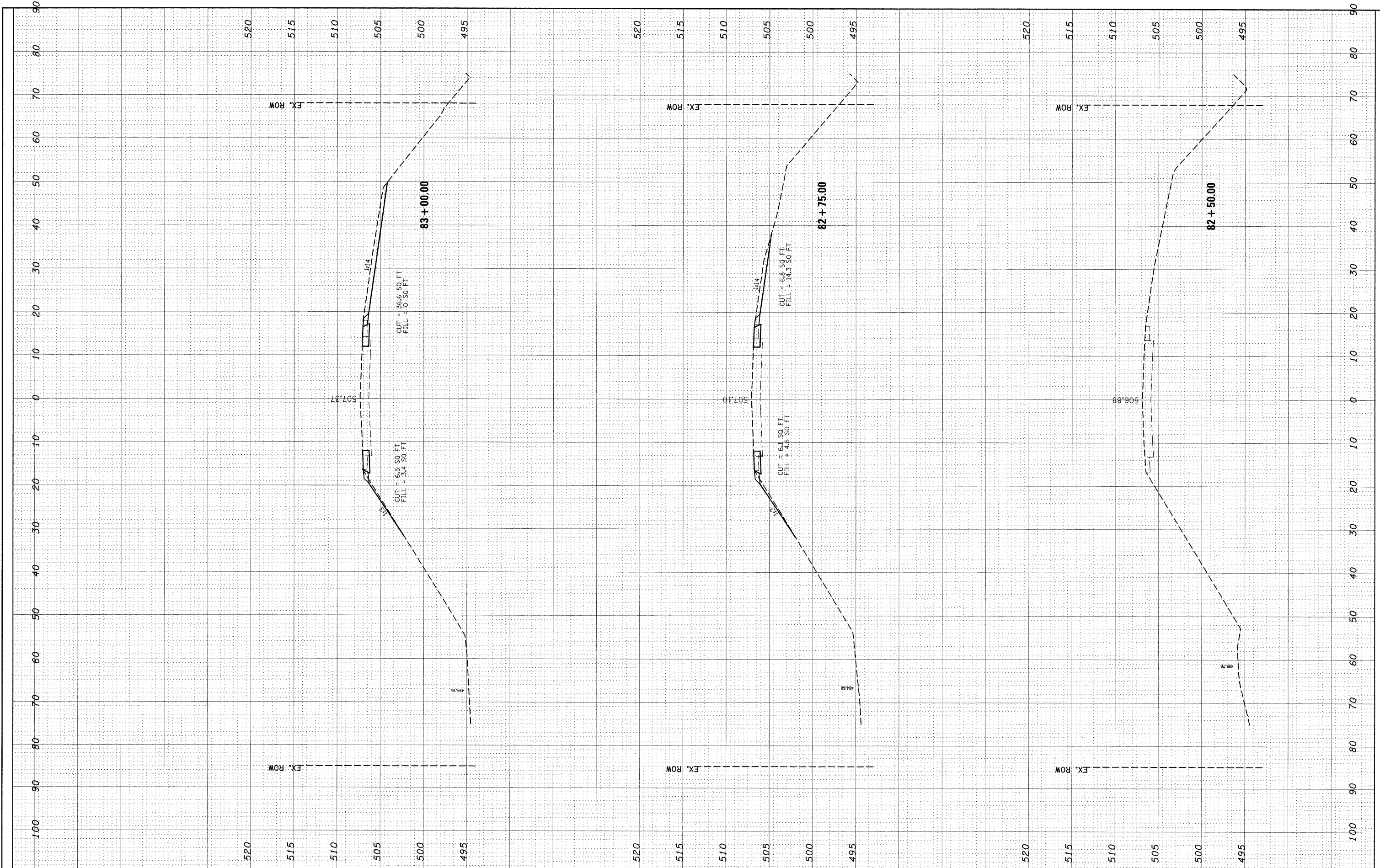
SOIL BORINGS (3 OF 3)
ILLINOIS 267 OVER
TAYLOR CREEK
STRUCTURE NO. 031-0043

SHEET 19 OF 19	F.A.P. RTE. 10	SECTION 410BR-1	COUNTY GREENE	TOTAL SHEETS 37	SHEET NO. 31
	STA. 85+20.50		CONTRACT NO. 76B58		
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT					

FILE: J:\JUN06\63 IL-08VVV#8 IL 267 Taylor Creek-FINAL N-TaylorCreek\borings.dgn
USER: DCD
DATE: 10/07/2008 15:06:37

FINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	FILED		
	TOPGATE		
	AREAS		
	AREAS CHECKED		

ORIGINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	FILED		
	TOPGATE		
	AREAS		
	AREAS CHECKED		



FILE NAME =
 c:\pw_work\PWIDOT\MANNM\dms51659\ssht03308a.dgn

USER NAME = manntm
 PLOT SCALE = 10.0000' / IN.
 PLOT DATE = 10/16/2008

DESIGNED	-	REVISED	-
DRAWN	-	REVISED	-
CHECKED	-	REVISED	-
DATE	-	REVISED	-

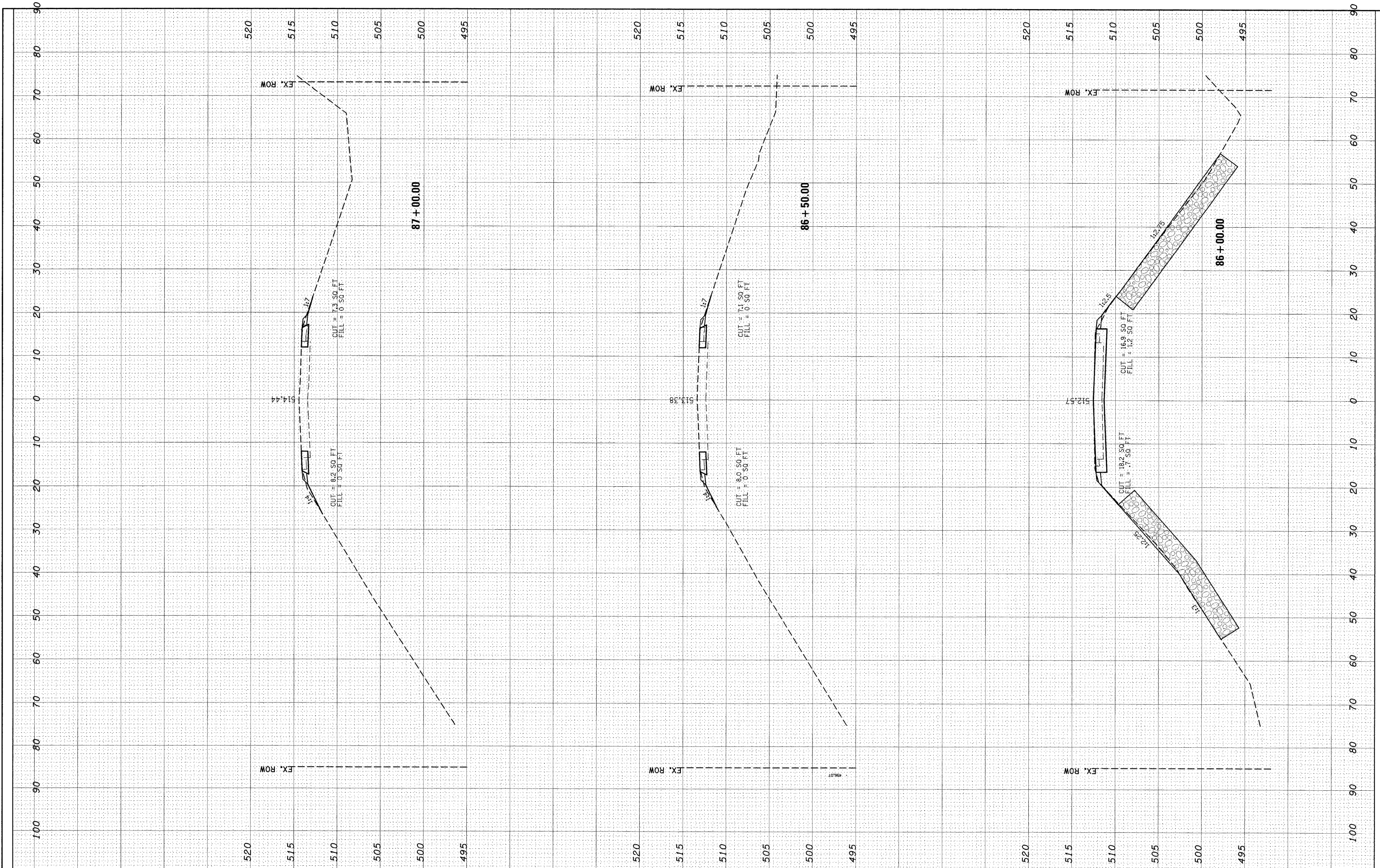
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

SCALE: SHEET NO. 1 OF 4 SHEETS STA. 82+50.00 TO STA. 83+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
10	410BR-1	GREENE	37	32
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
		CONTRACT NO. 76B58		

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

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



FILE NAME = c:\pw_work\FWIDOT\MANNITM\dms51659\ssht030008.dgn

USER NAME = manntm
 PLLOT SCALE = 10.0000" / 1"
 PLOT DATE = 10/16/2008

DESIGNED	-	REVISED	-
DRAWN	-	REVISED	-
CHECKED	-	REVISED	-
DATE	-	REVISED	-

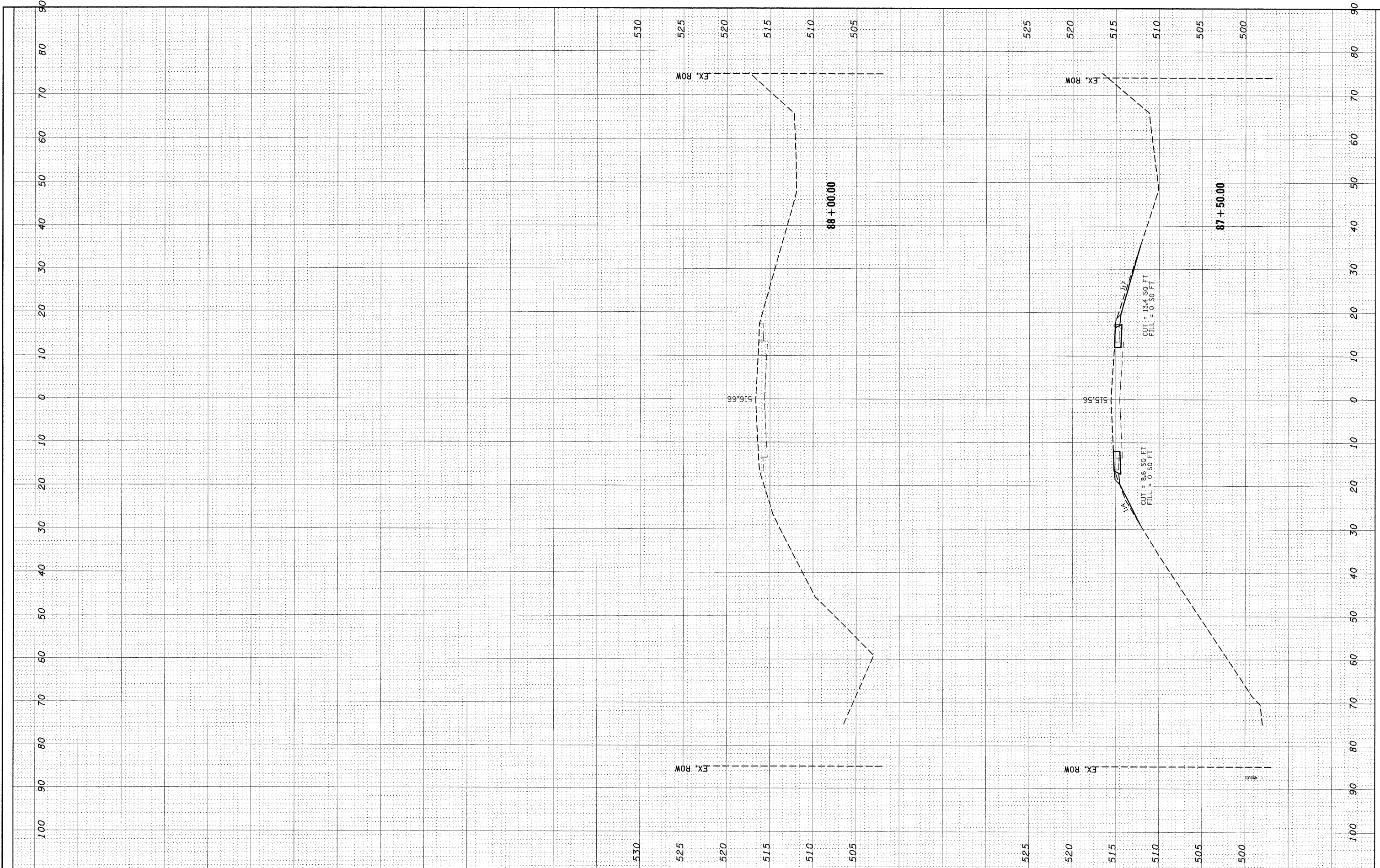
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

SCALE: SHEET NO. 3 OF 4 SHEETS STA. 86+00.00 TO STA. 87+00.00

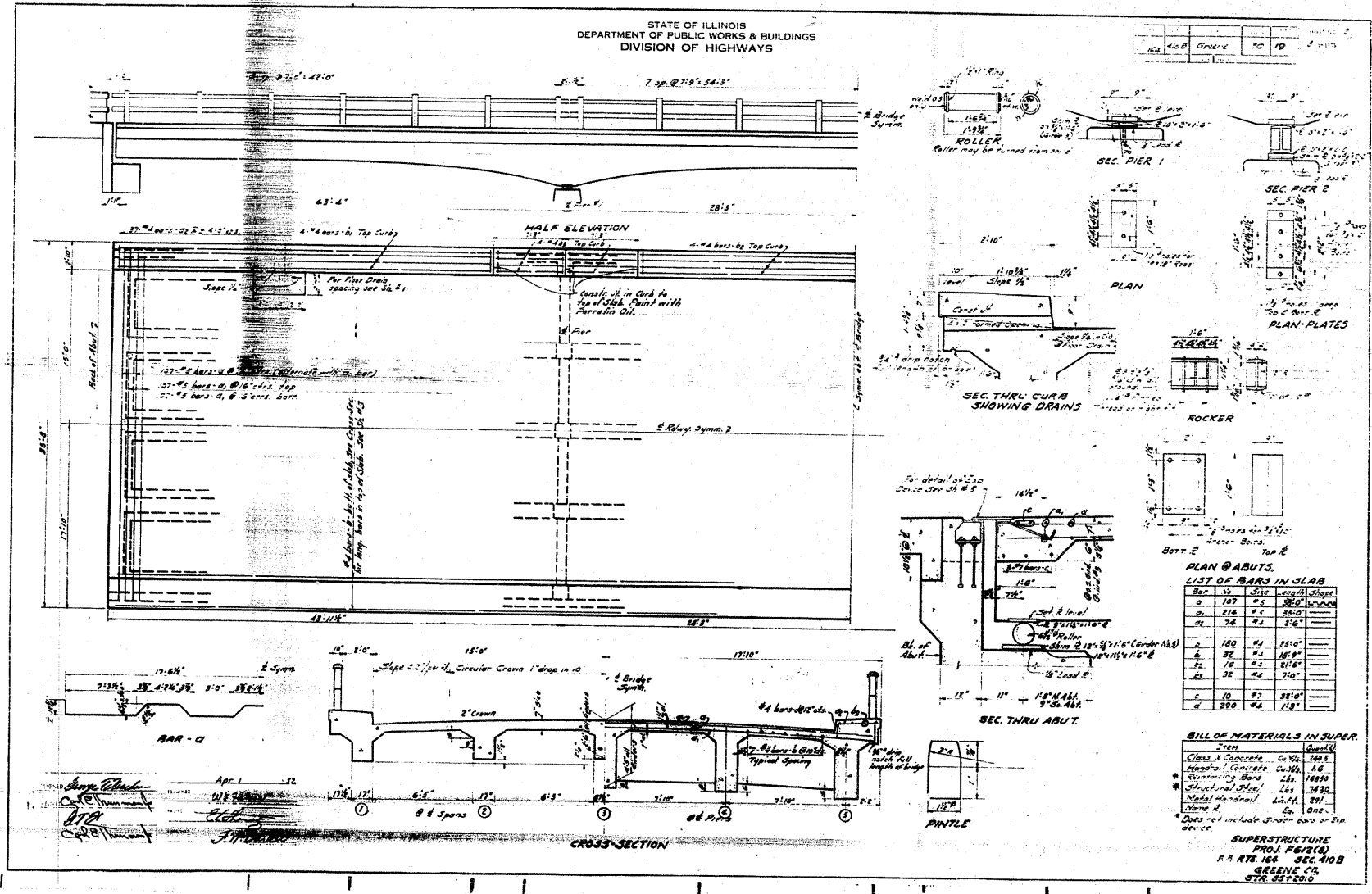
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
10	410BR-1	GREENE	37	34
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
		CONTRACT NO. 76B58		

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

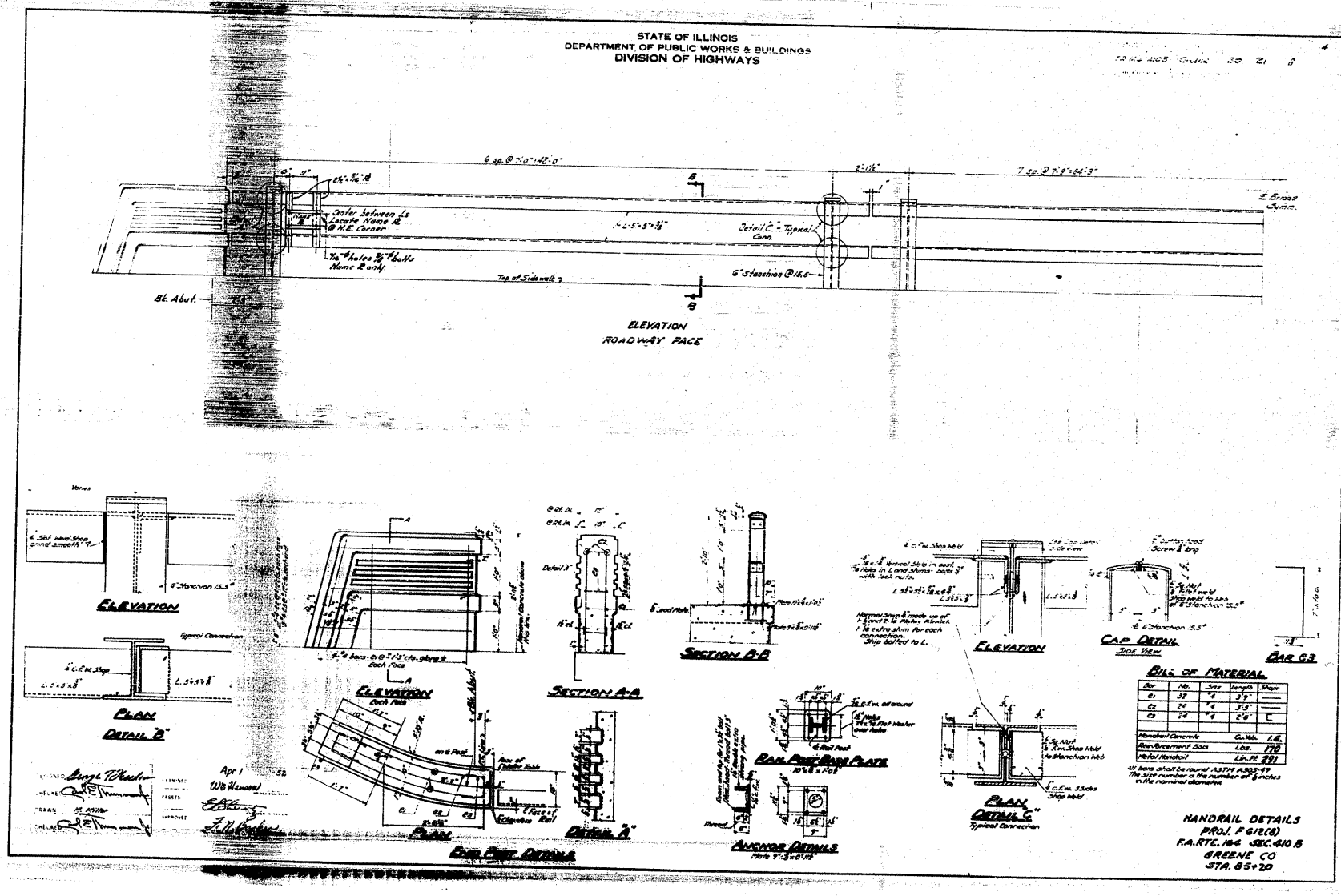
ORIGINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
NO.	AREAS		
	CHECKED		



FILE NAME =	USER NAME = manntm	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SCALE:	SHEET NO. 4 OF 4 SHEETS	STA. 87+50.00 TO STA. 88+00.00	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
c:\p_w\work\PWJDOT\MANNM\dm51659\ssht03028.dgn	DRAWN -	REVISED -	10					410BR-1	GREENE	37	35	
PLOT SCALE = 10.0000' / IN.	CHECKED -	REVISED -	CONTRACT NO. 76B58									
PLOT DATE = 10/16/2008	DATE -	REVISED -	ILLINOIS FED. AID PROJECT									



FILE NAME =	USER NAME = muenstermangk	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EXISTING BRIDGE PLAN	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
ct\pw_wor\p\WIDOT\MUENSTERMANGK\dms51659\p1n03008a.dgn	11/15/2006	DRAWN -	REVISED -			10	410BR-1	GREENE	37	37	
PLOT SCALE = 20.0000' / IN.	CHECKED -	REVISED -	REVISED -			CONTRACT NO. 76B58					
PLOT DATE = 10/15/2006	DATE -	REVISED -	REVISED -			FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT					



FILE NAME =
c:\pwwork\pwid01\muenstermannk\dms159\p1n03008a.dgn

USER NAME = muenstermannk

PLOT SCALE = 20,0000 1 / IN.

PLOT DATE = 10/15/2008

DESIGNED -
DRAWN -
CHECKED -
DATE -

REVISED -
REVISED -
REVISED -
REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

EXISTING BRIDGE PLAN

SCALE: SHEET NO. 3 OF 7 SHEETS STA. TO STA.

F.A.P. RTE. 10	SECTION 410BR-1	COUNTY GREENE	TOTAL SHEETS 37	SHEET NO. 3TA
CONTRACT NO. 76B58				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

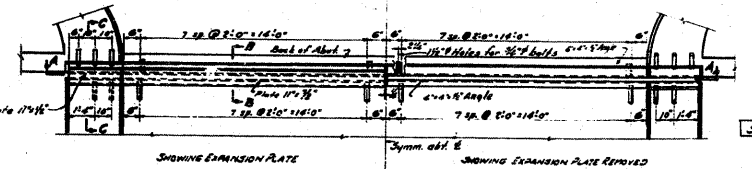
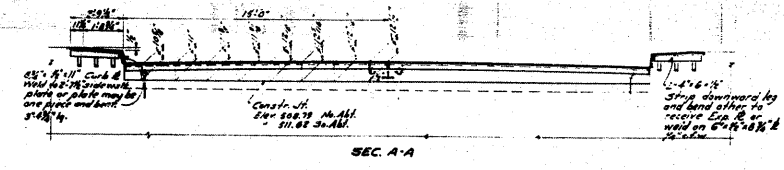
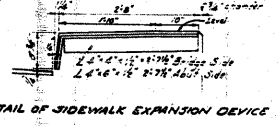
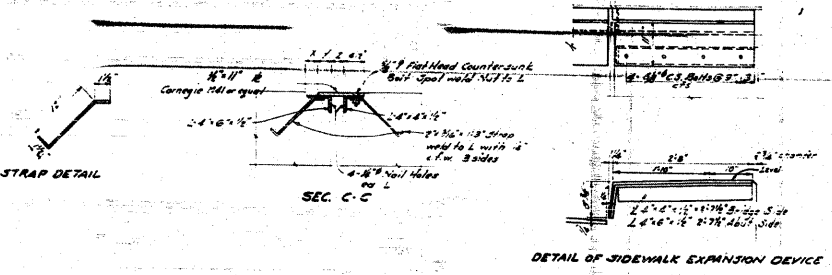
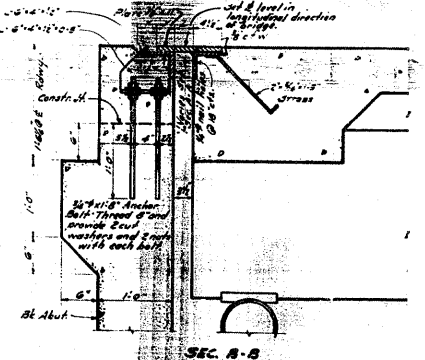
STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BUILDINGS
DIVISION OF HIGHWAYS

410B	Greene	30	22	8
------	--------	----	----	---

Expansion Device shall be fabricated with steel
and assembled in proper position in shop. Leave
system for inspection.
After erection shall receive
two 2000 lb test load point correct 2 1/2 in.
stress of 2000 lb. in 20 sec. not to be painted
2000 lb. test

TABLE OF X-Y-Z DIMENSIONS

Part	X	Y	Z
1	18"	24"	2 1/2"
2	18"	24"	2 1/2"
3	18"	24"	2 1/2"
4	18"	24"	2 1/2"
5	18"	24"	2 1/2"
6	18"	24"	2 1/2"
7	18"	24"	2 1/2"
8	18"	24"	2 1/2"
9	18"	24"	2 1/2"
10	18"	24"	2 1/2"



BILL OF MATERIAL

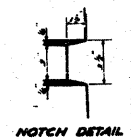
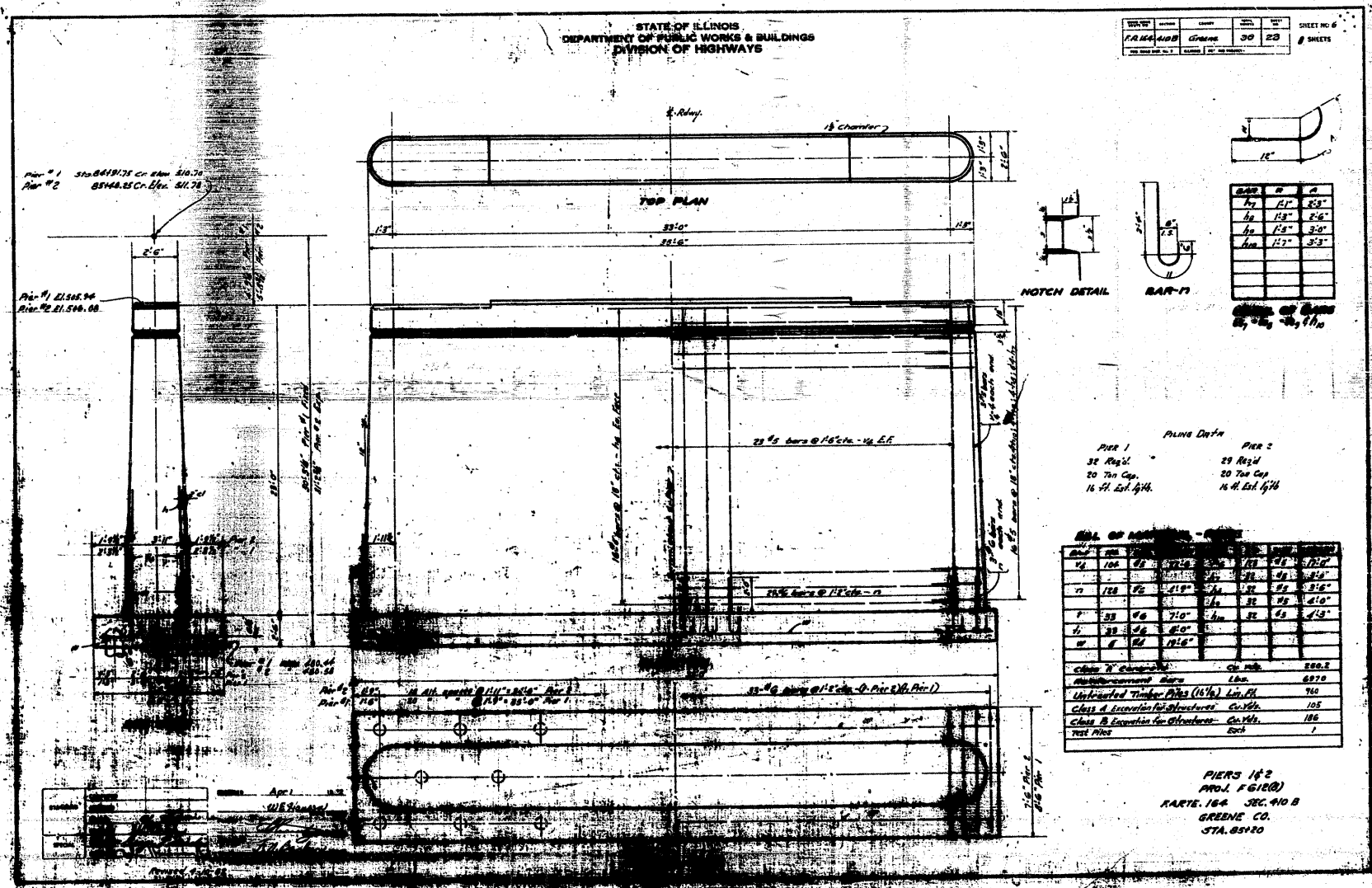
Structural Steel	145	5070
------------------	-----	------

DESIGNED BY: [Signature]
DRAWN BY: [Signature]
CHECKED BY: [Signature]
DATE: 10/15/2008

EXPANSION DEVICE
PROJ. F-8180
R.A. RTE. 164 SEC. 410 B
GREENE CO.
STA. 66+20

STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BUILDINGS
DIVISION OF HIGHWAYS

DATE	BY	CHECKED	APPROVED	SHEET NO.
				6



BAR #	SIZE	LENGTH
1	1/2"	15'
2	1/2"	15'
3	1/2"	15'
4	1/2"	15'
5	1/2"	15'
6	1/2"	15'
7	1/2"	15'
8	1/2"	15'
9	1/2"	15'
10	1/2"	15'

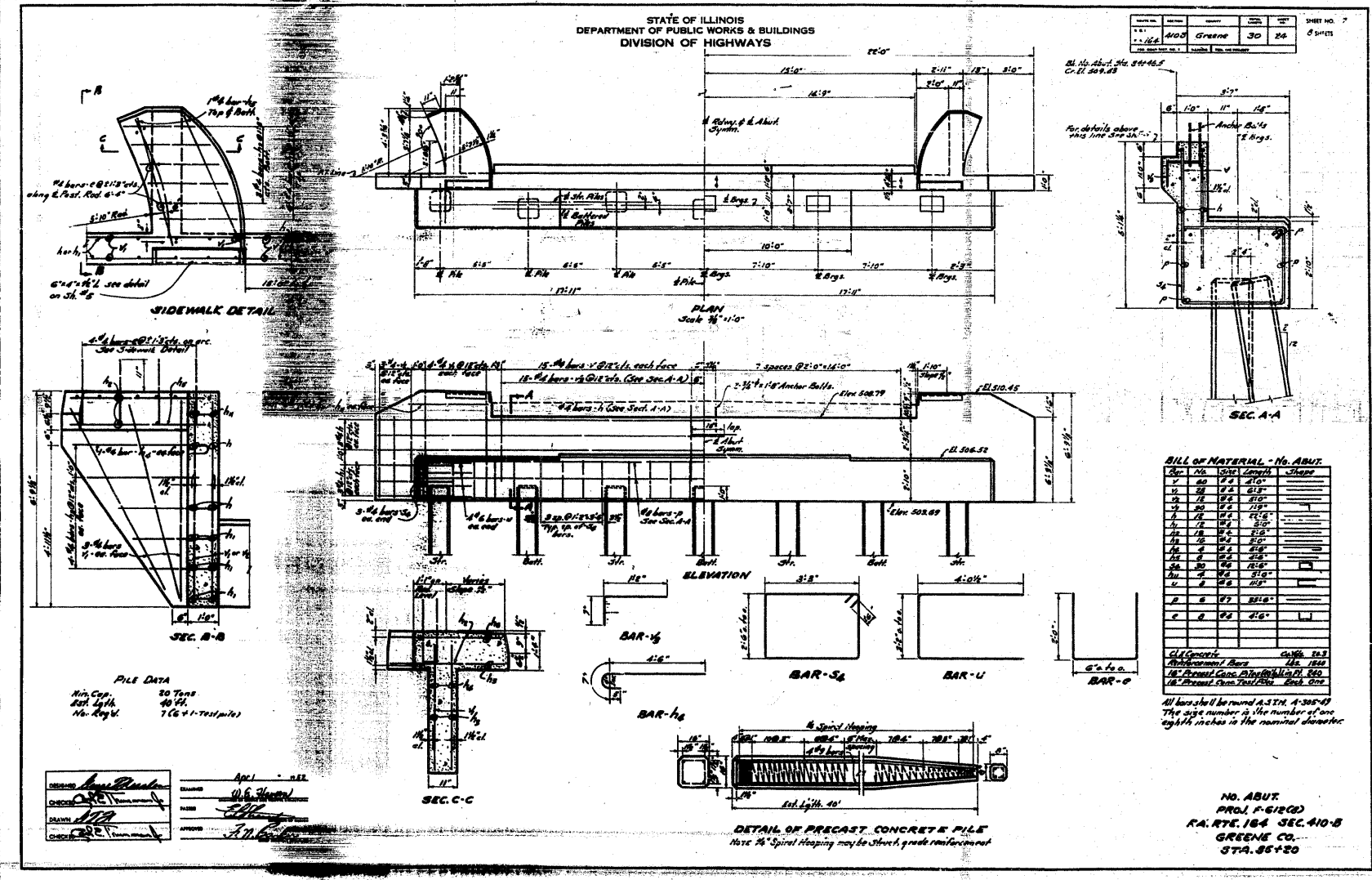
PIERS DATA

PIER	REINFORCEMENT
PIER 1	32 Reqd.
PIER 2	29 Reqd.
	20 Top Cap.
	16 H. Ext. 1/4"

BILL OF MATERIALS

ITEM	QUANTITY	UNIT	PRICE	TOTAL
Class A Reinforcement Bars	288.2	Lbs.		6875
Unreinforced Timber Piles (1 1/2")	760	Lin. Ft.		105
Class B Reinforcement for Structures	186	Lbs.		1
Test Piles	1	Each		

PIERS 1 & 2
PROJ. F 6120
ROUTE 164 SEC. NO 8
GREENE CO.
STA. 85+20



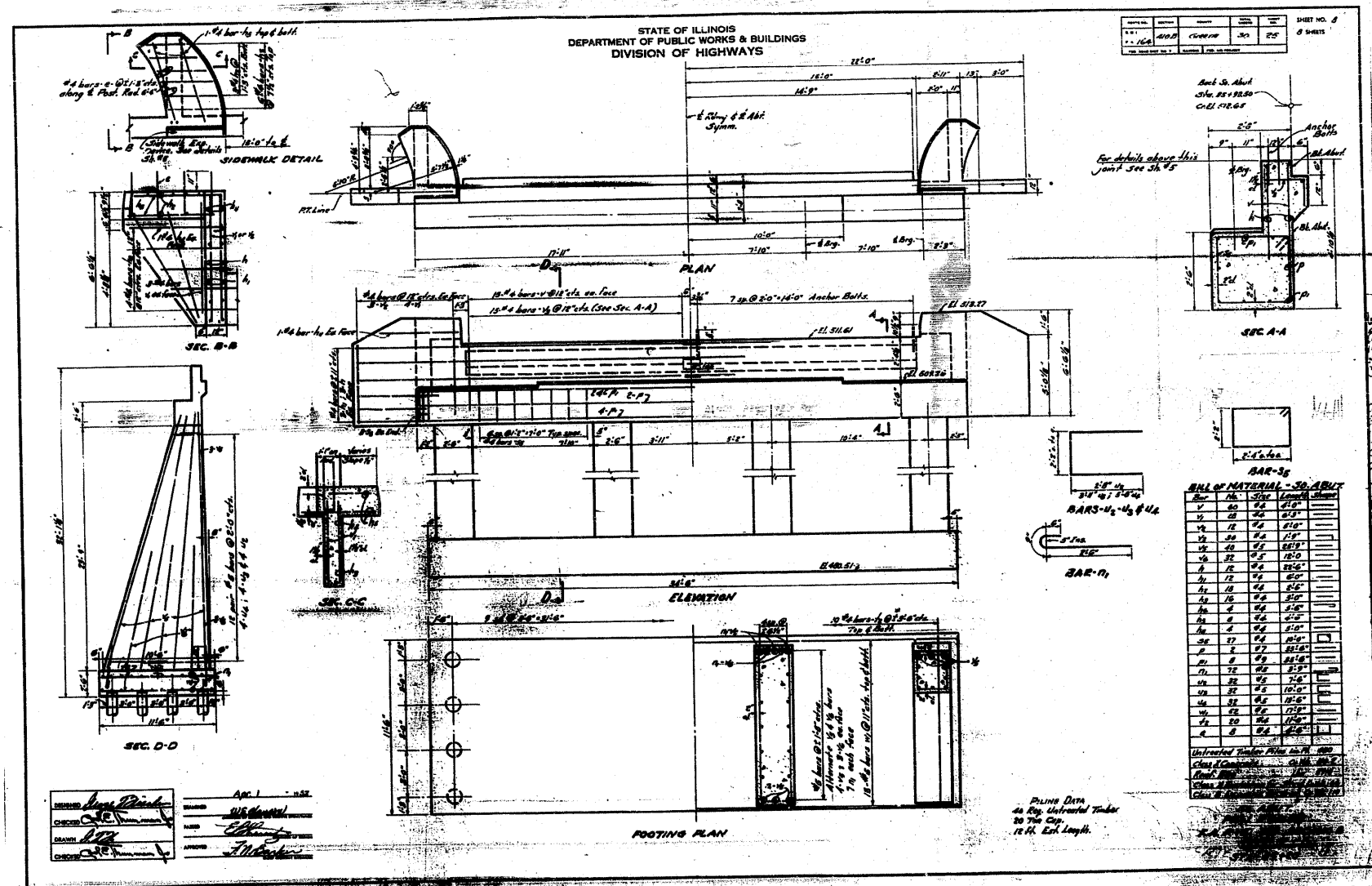
FILE NAME =	USER NAME = muenstermannk	DESIGNED -	REVISED -
c:\pwwork\pwwid\muenstermannk\dms5159\pin@3008a.dgn		DRAWN -	REVISED -
PLOT SCALE = 20.0000' / IN.		CHECKED -	REVISED -
PLOT DATE = 10/15/2008		DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

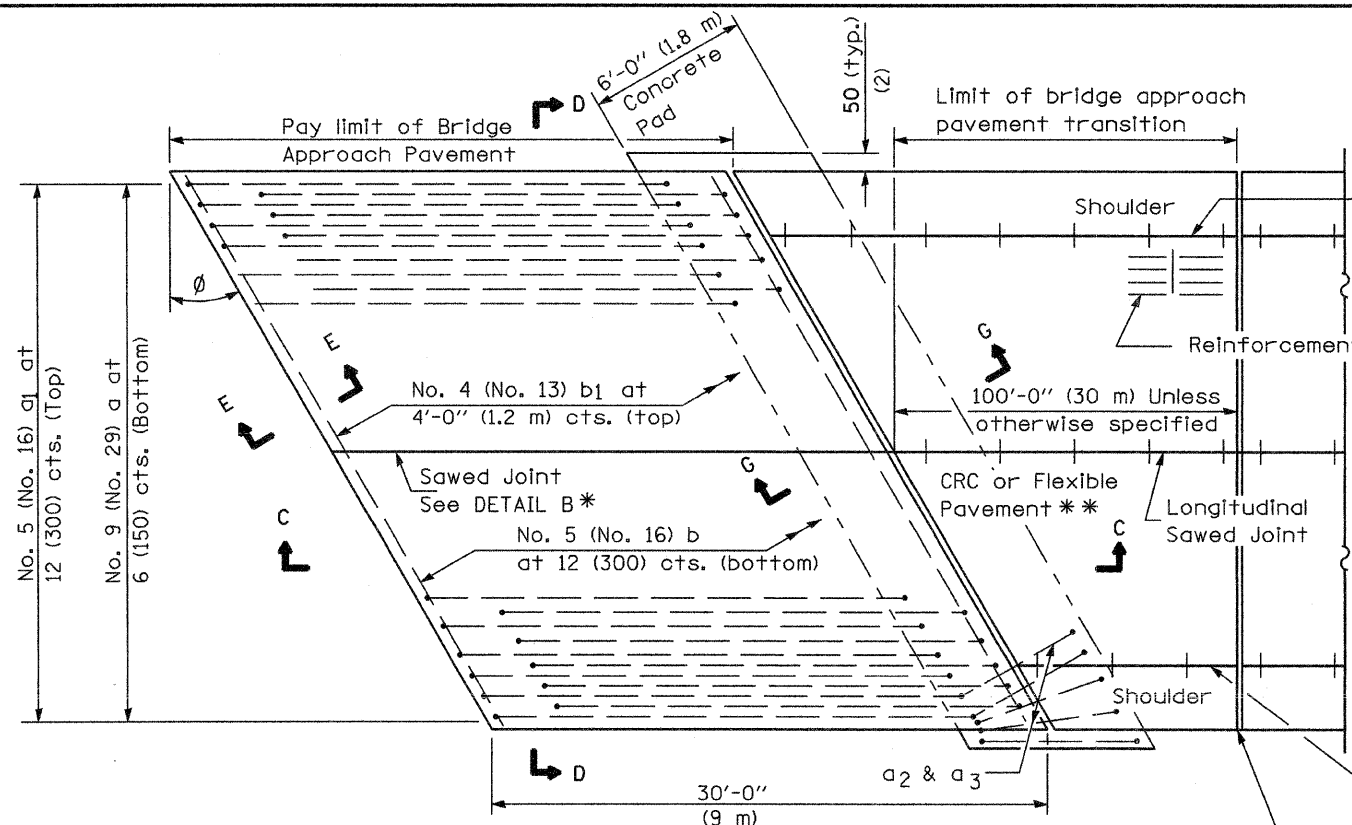
EXISTING BRIDGE PLAN

SCALE: SHEET NO. 6 OF 7 SHEETS STA. TO STA.

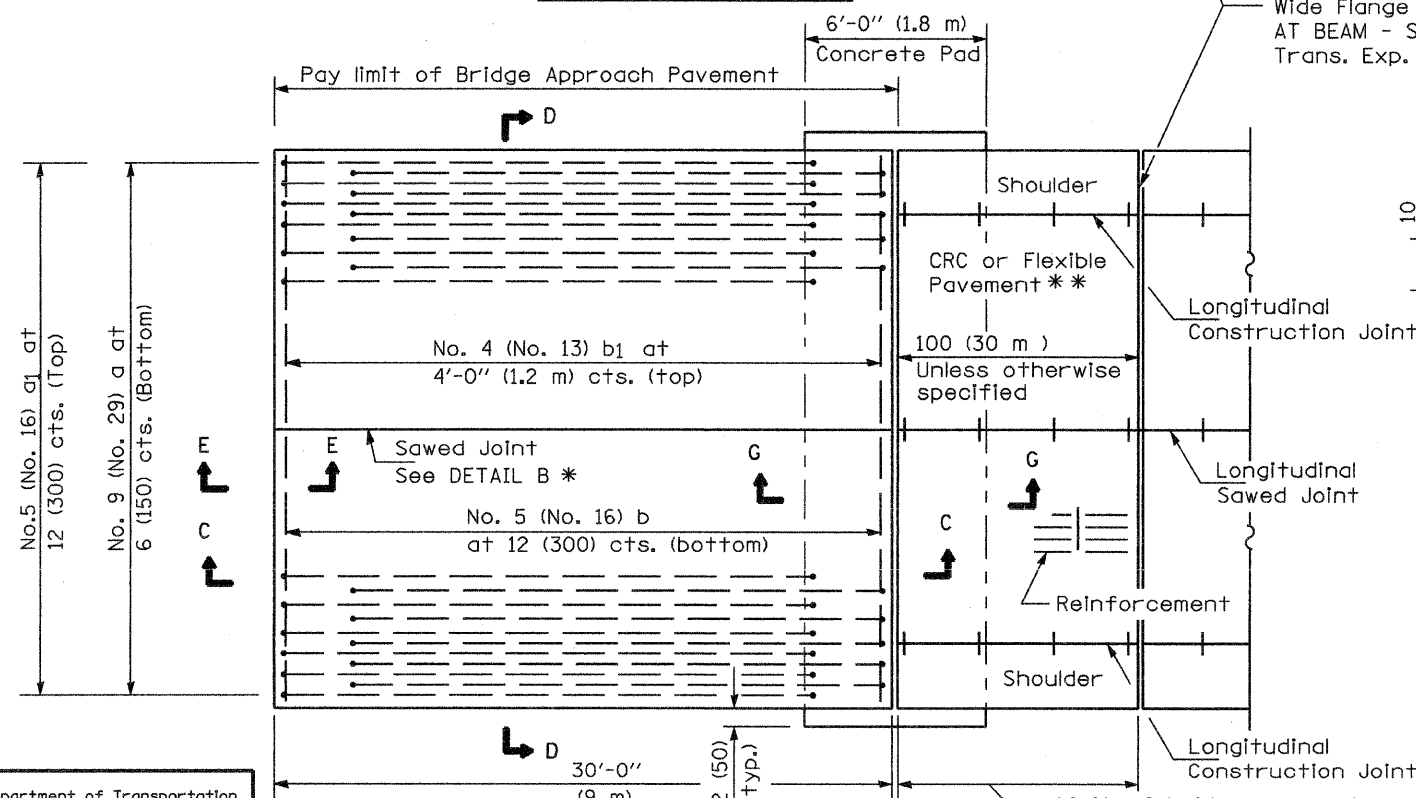
F.A.P. RTE. 10	SECTION 410BR-1	COUNTY GREENE	TOTAL SHEETS 37	SHEET NO. 37D
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 76B58	



FILE NAME = USER NAME = muenstermannk PLOT SCALE = 20,0000' / IN. PLOT DATE = 10/15/2008	DESIGNED - DRAWN - CHECKED - DATE -	REVISED - REVISED - REVISED - REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EXISTING BRIDGE PLAN		F.A.P. RTE. 10	SECTION 410BR-1	COUNTY GREENE	TOTAL SHEETS 37	SHEET NO. 37E
				SCALE:	SHEET NO. 7 OF 7 SHEETS	STA.	TO STA.	FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT	CONTRACT NO. 76B58

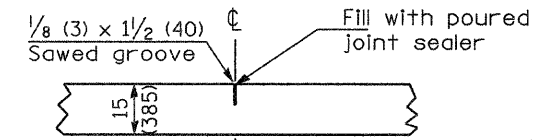


PLAN - WITH SKEW

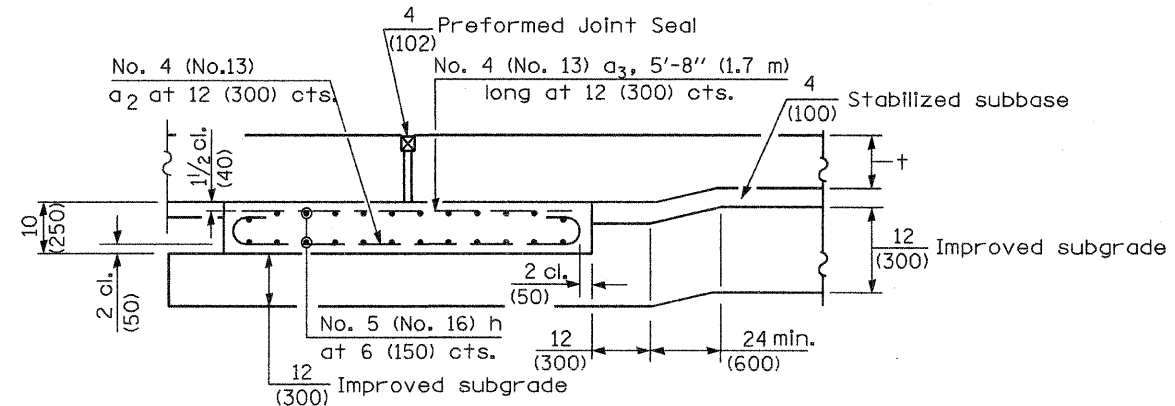


PLAN - WITHOUT SKEW

NEW CONSTRUCTION



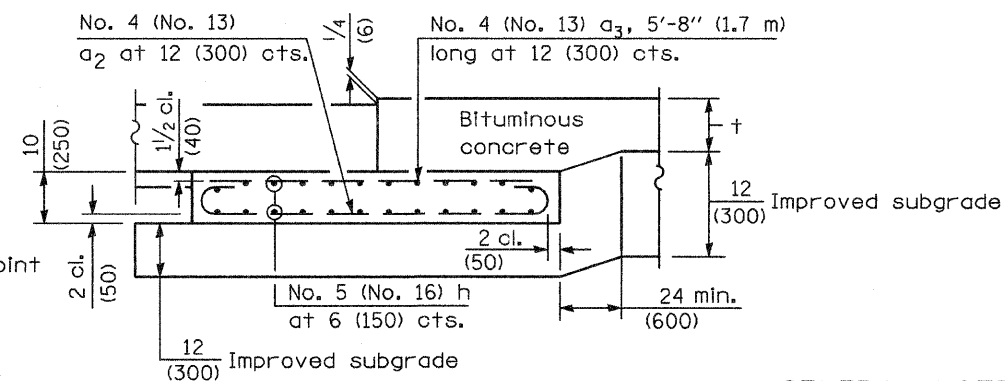
DETAIL B*
(Reinforcement Not Shown)



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.



SECTION G-G - FLEXIBLE PAVEMENT
(Showing reinforcement)

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.

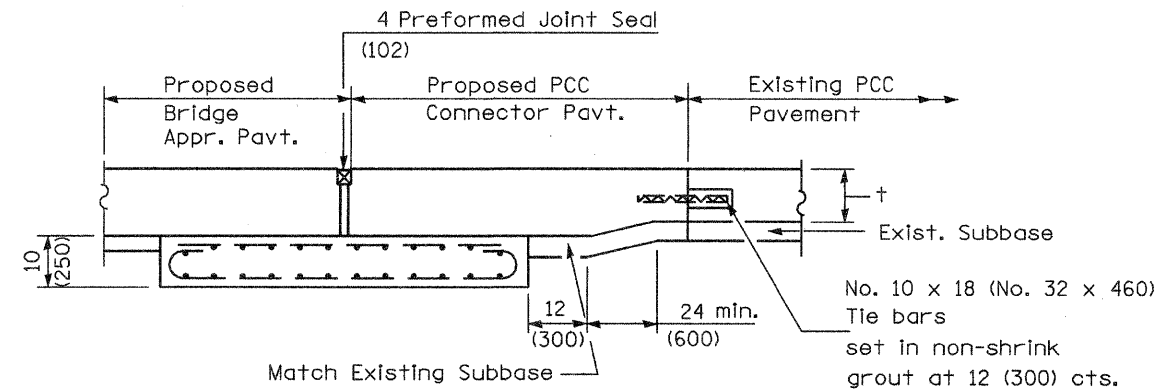
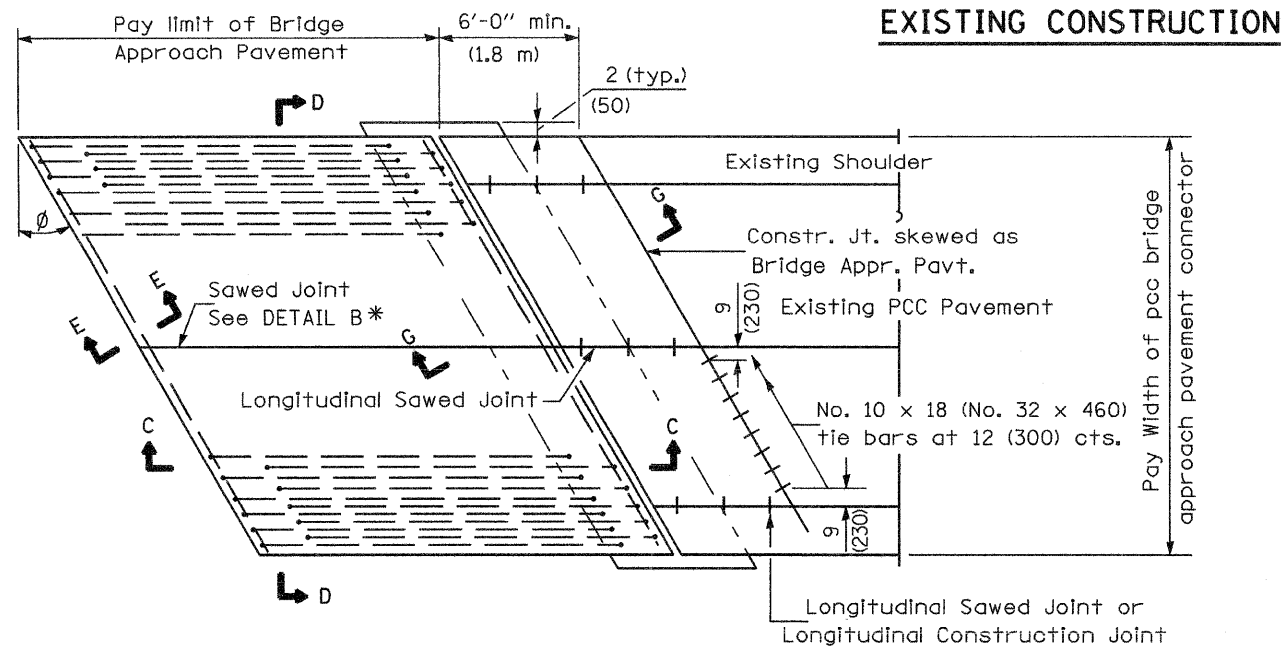
Illinois Department of Transportation
APPROVED January 1, 2008
Walsh E. Anderson
ENGINEER OF BRIDGES AND STRUCTURES
APPROVED January 1, 2008
Ken S. Han
ENGINEER OF DESIGN AND ENVIRONMENT

* Saw \downarrow or lane edge if poured two or more lane widths at a time.
** Omit Reinforcement, tie bars and Long. sawed Jt. for Flexible Pavement.

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.

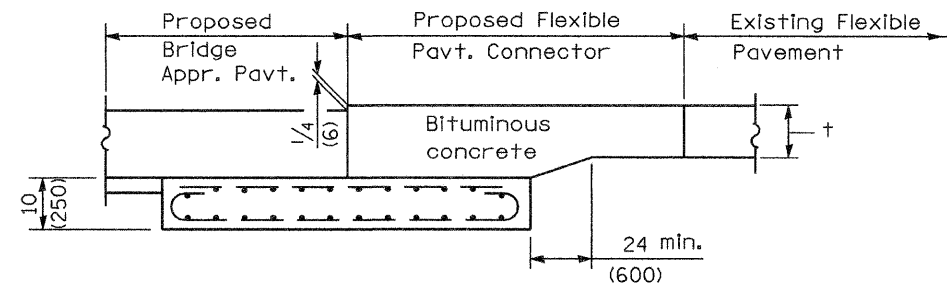
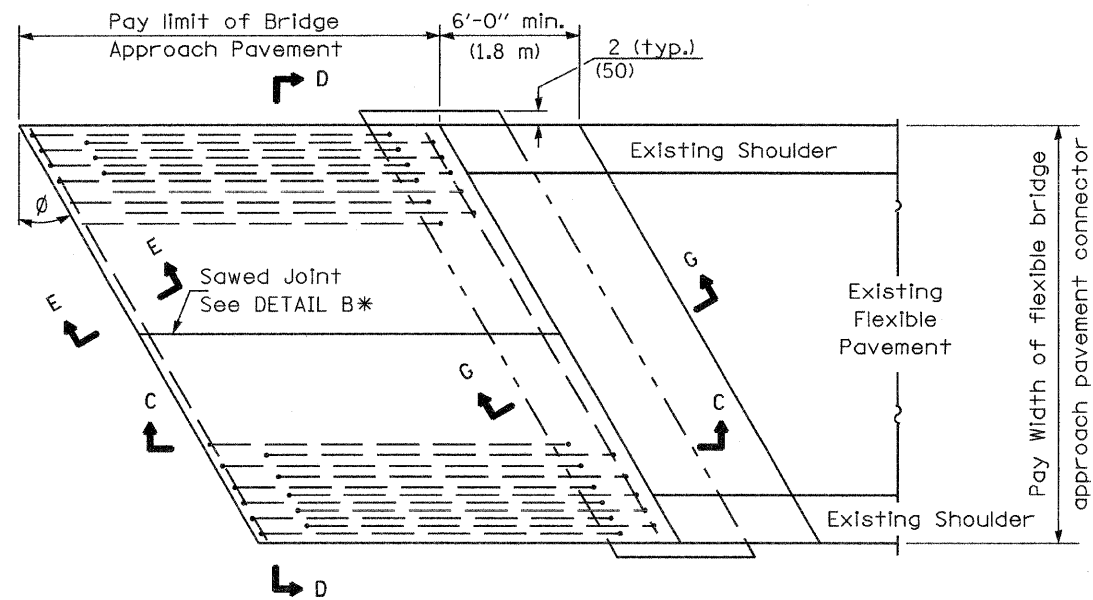
BRIDGE APPROACH PAVEMENT
(Sheet 1 of 4)

Contract 74B5B Sheet 37F.



SECTION G-G - RIGID PAVEMENT

BRIDGE APPROACH PAVEMENT CONNECTOR (PCC)



SECTION G-G - FLEXIBLE PAVEMENT

BRIDGE APPROACH PAVEMENT CONNECTOR (FLEXIBLE)

Illinois Department of Transportation

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

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

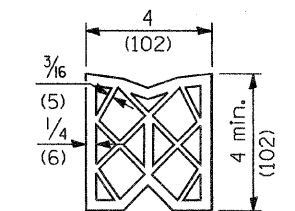
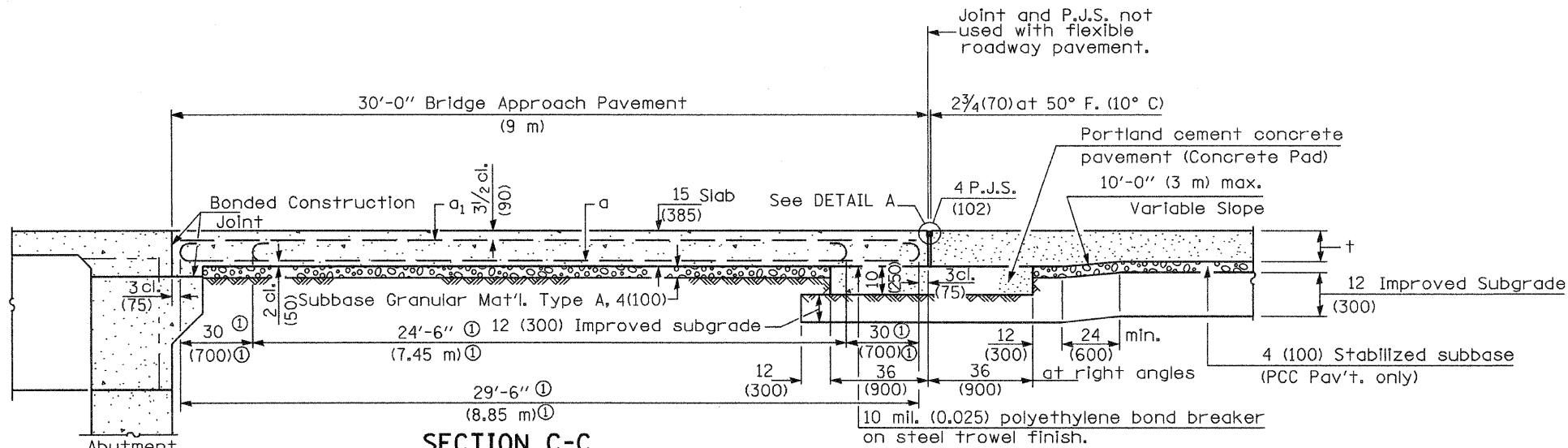
ISSUED 1-1-97

BRIDGE APPROACH PAVEMENT

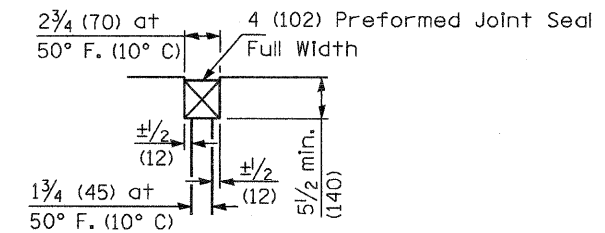
(Sheet 2 of 4)

Contract 76B58

Sheet 37G.

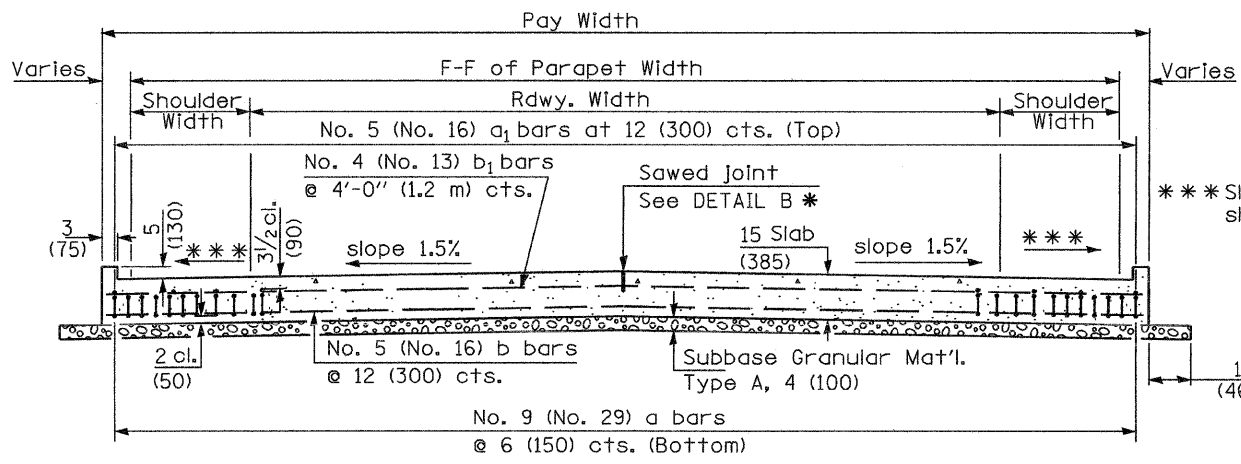


PREFORMED JOINT SEAL



DETAIL A

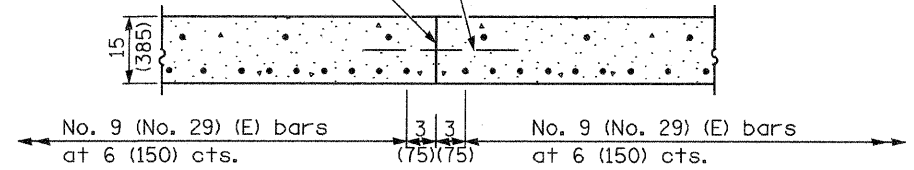
① Stagger No. 9 (No. 29) a bars as shown on plan - full width



SECTION D-D

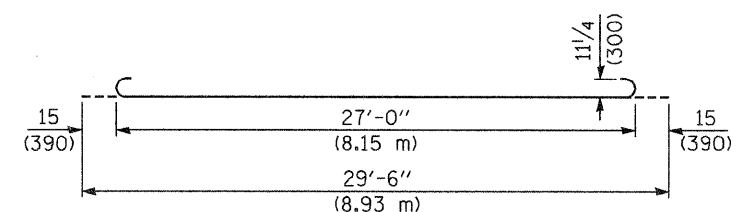
(See Plan for Dimensions not shown)

Longitudinal Construction Joint In accordance with details shown on Standard 420001.

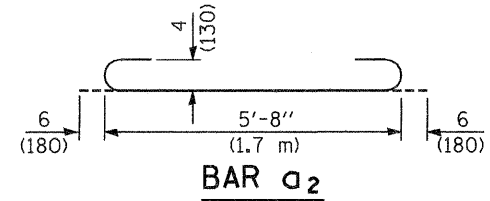


OPTIONAL LONGITUDINAL CONSTRUCTION JOINT

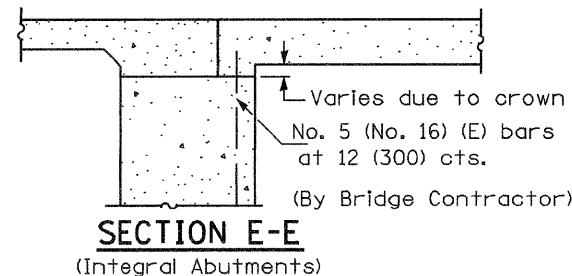
As approved by the Engineer, the Contractor may elect to reduce the widths of pour by use of the Optional Longitudinal Construction Joint shown. Joints shall be located at the edge of a traffic lane.



BAR a

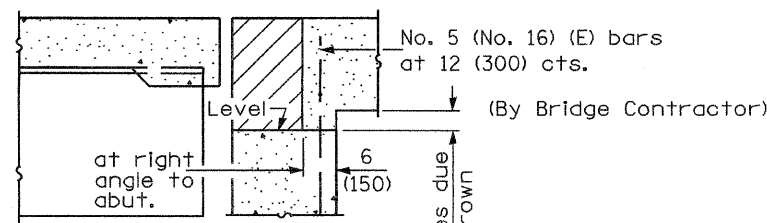


BAR a2



SECTION E-E

(Integral Abutments)



SECTION E-E

(Jointed Abutments)

DESIGN STRESSES

$f_y = 60,000$ p.s.i. (400 MPa)
 $f'_c = 3,500$ p.s.i. (24 MPa)
 $n = 8.5$

BRIDGE APPROACH PAVEMENT

(Sheet 3 of 4)

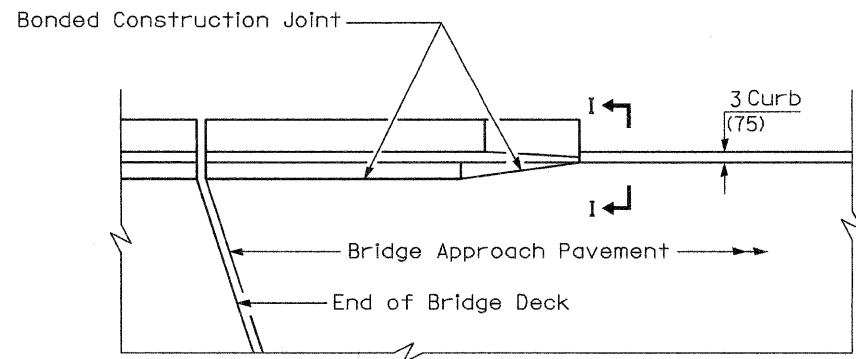
Contract 76058 Sheet 374.

Illinois Department of Transportation

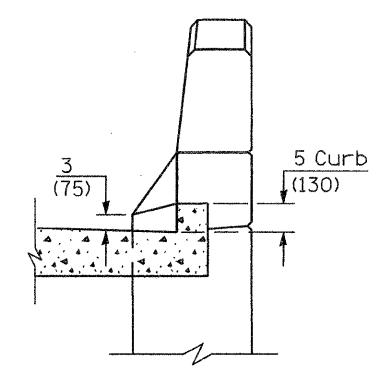
APPROVED January 1, 2008
Ralph E. Anderson
 ENGINEER OF BRIDGES AND STRUCTURES

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

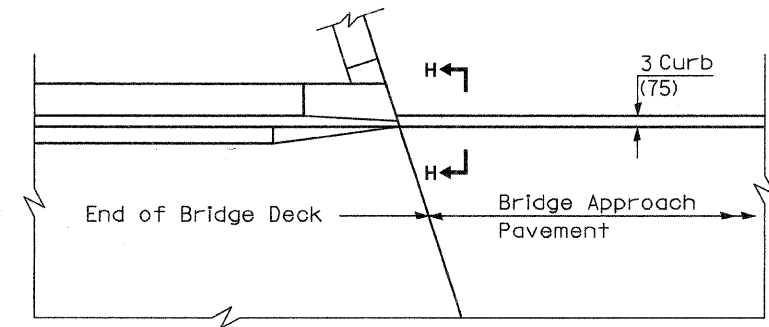
ISSUES 1-1-97



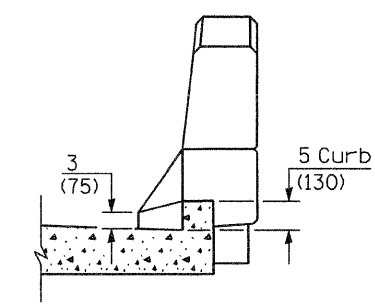
**PARAPET TO CURB TRANSITION
PILE BENT ABUTMENT**



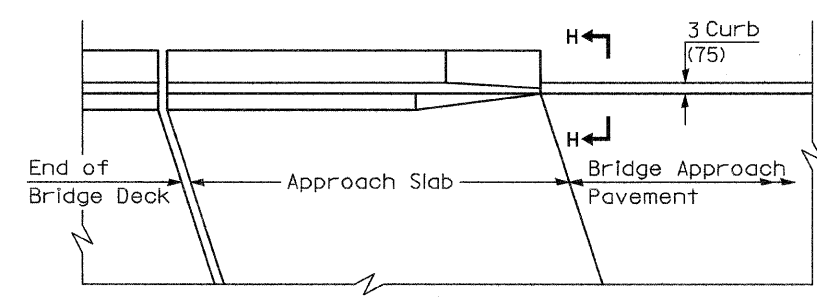
SECTION I - I



**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
Ken E. Haas
 ENGINEER OF DESIGN AND ENVIRONMENT
 ISSUED 1-1-97

BRIDGE APPROACH PAVEMENT
 (Sheet 4 of 4)
 Contract 76B58 Sheet 37I.