F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	(39-R)I	MCDONOLIGH	38	1

STATE OF ILLINOIS

DEPARTMENT OF TRANSPORTATION

DIVISION OF HIGHWAYS

PROPOSED HIGHWAY PLANS

FAP 310 (US 67) SECTION (39B)I PROJECT BHF-0310 (127) McDONOUGH COUNTY C-94-024-07

R 2 W, 4th PM

PROPOSED PROJECT BEGINS

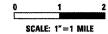
PROPOSED PRECAST PRESTRESSED CONCRETE DECK BEAM SUPERSTRUCTURE ON EXISTING DOUBLE SPAN SUBSTRUCTURE 76'-0" BK-BK ABUTMENTS, 33'-0" CLEAR DECK WIDTH WITH STEEL RAILING, TYPE SM., 00 SKEW S.N. 055-0005 € STA. 88+17

> PROPOSED PROJECT ENDS STA. 91 + 40

SUPERSTRUCTURE REPLACEMENT OVER TROUBLESOME CREEK

LOCATION MAP

NET LENGTH OF PROJECT = 620 FT. = 0.12 MI.



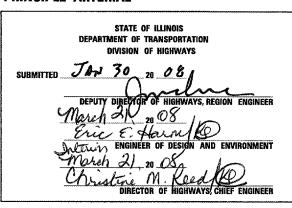
QA/QC CONCRETE

062-045260 LICENSED **PROFESSIONAL**

MARTIN SILVESTER, P.E. LICENSE EXP. DATE 11-30-09 D-94-021-07



ADT = 2950 (2005); 3803 (2020)%SU = 6.8 (2005)%MU = 8.5 (2005)TOWNSHIP: SCOTLAND **FUNCTIONAL CLASSIFICATION: 30 OTHER** PRINCIPLE ARTERIAL



PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

SHEET NO. INDEX OF SHEETS

TITLE SHEET

GENERAL NOTES, PROJECT SPECIFIC NOTES AND COMMITMENTS

SUMMARY OF QUANTITIES

TYPICAL SECTIONS

SCHEDULE OF QUANTITIES PLAN & PROFILE

TRAFFIC CONTROL PLAN - STAGING

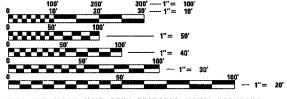
STRUCTURE DETAILS

ROADWAY DETAILS

35-38 CROSS SECTIONS

LIST OF ILLINOIS DOT HIGHWAY **STANDARDS**

000001-05 701201-02 280001-04 701301-02 353001-04 701311-02 420001-07 701321-09 515001-02 701326-02 630001-07 701901 630301-04 704001-04 631032--03 780001--01 635006-02 781001-02 635011-01 701001-01 701006-02



ENGINEERING SCALES, REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES, IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION 1-800-892-0123

CONTRACT NO. 68692

McDONOUGH COUNTY SECTION (39B)1 FAP 310 (US67)

F.A.P.	SECTION		COUNT	Y	TOTAL	SHEE NO.
310	(398)1	M	COONC	UGH	38	2
STA.		TO	STA.			*******
FED. ROA	D DIST. NO.	ILLIMOIS	FEO.	AID	PROJECT	

GENERAL NOTES

- 1. MICROSTATION AND GEOPAK FILES OF THIS PROJECT WILL BE MADE AVAILABLE TO THE CONTRACTOR, IF THERE IS A CONFLICT BETWEEN THE ELECTRONIC FILES AND THE PRINTED CONTRACT PLANS AND DOCUMENTS, THE PRINTED CONTRACT PLANS AND DOCUMENTS SHALL TAKE PRECEDENCE OVER THE ELECTRONIC FILES. THE CONTRACTOR SHALL ACCEPT ALL RISK ASSOCIATED WITH USING THE ELECTRONIC FILES AND SHALL HOLD THE DEPARTMENT HARMLESS FOR ANY ERRORS OR OMISSION IN THE ELECTRONIC FILES AND THE DATA CONTAINED THEREIN. ERRORS OR DELAYS RESULTING FROM THE USE OF THE ELECTRONIC FILES BY THE CONTRACTOR SHALL NOT RESULT IN AN EXTENSION OF TIME FOR ANY INTERIM OR FINAL COMPLETION DATE OR SHALL NOT BE CONSIDERED CAUSE FOR ADDITIONAL COMPENSATION. THE CONTRACTOR SHALL NOT USE, SHARE, OR DISTRIBUTE THESE ELECTRONIC FILES EXCEPT FOR THE PURPOSE OF CONSTRUCTING THIS CONTRACT, ANY CLAIMS BY THIRD PARTIES DUE TO USE OR ERRORS SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR, THE CONTRACTOR SHALL INCLUDE THIS DISCLAIMER WITH THE TRANSFER OF THESE ELECTRONIC FILES TO ANY OTHER PARTIES AND SHALL INCLUDE APPROPRIATE LANGUAGE BINDING THEM TO SIMILAR RESPONSIBILITIES.
- 2. AFTER PLACEMENT OF THE BRIDGE DECK OVERLAY, THE RESIDENT ENGINEER SHALL NOTIFY THE DISTRICT BRIDGE MAINTENANCE ENGINEER OF THE "AS CONSTRUCTED" MILLING DEPTH AND OVERLAY THICKNESS FOR UPDATING THE ILLINOIS HIGHWAY INFORMATION SYSTEM.
- 3. THE CONTRACTOR SHALL PROVIDE LABOR AND MATERIALS REQUIRED TO IMPRINT PAVEMENT STATION NUMBERS IN THE FINISHED SURFACE OF THE PAVEMENT AND/OR OVERLAY. THE NUMBERS SHALL BE APPROXIMATELY 3/4 INCH WIDE, 5 INCHES HIGH AND 5/8 INCH DEEP.

THE PAVEMENT STATION NUMBERS SHALL BE INSTALLED AS SPECIFIED HEREINS

INTERVAL - 200 FEET ENGLISH STATIONING

BOTTOM OF NUMBERS - 6 INCHES FROM THE INSIDE EDGE OF THE PAVEMENT MARKING

- . 2. 3. & 5 LANE PAVEMENTS RIGHT EDGE OF PAVEMENT IN DIRECTION OF INCREASING
- MULTI-LANE DIVIDED ROADWAYS OUTSIDE EDGE OF PAVEMENT IN BOTH DIRECTIONS
- RAMPS ALONG BASELINE EDGE OF PAVEMENT
- POSITION STATIONS SHALL BE PLACED SO THEY CAN BE READ FROM THE ADJACENT
- FORMAT ENGLISH PAVEMENT STATIONS SHALL USE THIS FORMAT (XX+XXX) WHERE

THIS WORK WILL NOT BE PAID FOR SEPARATELY, BUT WILL BE CONSIDERED INCLUDED IN THE COST OF THE ASSOCIATED PAVEMENT AND/OR OVERLAY PAY ITEMS.

- 4. CONTINUOUS PAVING OPERATIONS ON THE MAIN ROADWAY SHALL BE MAINTAINED AT ALL TIMES DURING THE CONSTRUCTION OF THE BITUMINOUS SURFACE, NO INTERRUPTIONS FOR SIDE ROADS, ENTRANCES, TURN LANES, ETC. WILL BE ALLOWED.
- 5. ADD THE FOLLOWING SENTENCE TO THE END OF PRAGRAPH 670.02 (1) AND 670.04 (E):
 - ALL OF THE TELEPHONE LINES PROVIDED SHALL HAVE UNPUBLISHED NUMBERS.
- 6. ALL ELEVATIONS SHOWN ON THE PLANS ARE ESTABLISHED FROM U.S.G.S. MEAN SEA LEVEL DATUM.

ENVIRONMENTAL REVIEWS

PRIOR TO THE USE OF ANY PROPOSED BORROW AREAS, USE AREAS, (TEMPORARY ACCESS ROADS, DETOURS, RUN-AROUNDS, ETC.) AND/OR WASTE AREAS, THE CONTRACTOR SHALL FILE THE REQUIRED ENVIRONMENTAL RESOURCE REQUEST SURVEYS ACCORDING TO SECTION 107.22 OF THE STANDARD SPECIFICATIONS. THESE SURVEYS ARE REQUIRED IN ORDER FOR THE DEPARTMENT TO CONDUCT CULTURAL AND BIOLOGICAL RESOURCE SURVEYS FOR THE PROPOSED SITE.

PRIOR TO ANY WASTE MATERIALS BEING REMOVED FROM THE CONSTRUCTION SITE THE REQUIRED ENVIRONMENTAL RESOURCE SURVEYS WILL NEED TO BE OBTAINED AND FILED BY THE CONTRACTOR. EXCESS WASTE PRODUCTS REMOVED FROM THE CONSTRUCTION SITE SHALL BE DISPOSED OF AS REQUIRED IN SECTION 202.03 OF THE STANDARD SPECIFICATIONS.

ANY PROTRUDING METAL BARS SHALL BE REMOVED PRIOR TO THE DISPOSAL OF BROKEN CONCRETE AT APPROVED DISPOSAL SITES.

THE REQUIRED ENVIRONMENTAL RESOURCE DOCUMENTATION SHALL INCLUDE THE FOLLOWING:

- BDE FORM 2289 (ENVIRONMENTAL SURVEY REQUEST)
- . A LOCATION MAP SHOWING THE SIZE LIMITS AND LOCATION OF THE USE AREA
- . SIGNED PROPERTY OWNER AGREEMENT FORM D4 PIO100
- . COLOR PHOTOGRAPHS DEPICTING THE USE AREA
- BORROW AREA ENTRY AGREEMENT FORM D4 PIO101

PLEASE NOTE THAT A MINIMUM OF TWO WEEKS SHALL BE ALLOWED FOR THE DISTRICT TO OBTAIN THE REQUIRED ENVIRONMENTAL CLEARANCES.

PROPERTY OWNER ACCESS REQUIREMENT

ACCESS MUST BE MAINTAINED TO ALL EXISTING PROPERTIES DURING CONSTRUCTION PER ARTICLE 107.09 UNLESS ARRANGEMENTS ARE MADE IN WRITING BY THE CONTRACTOR WITH THE PROPERTY OWNERS WITH A COPY TO THE ENGINEER FOR SHORT-TERM CLOSURES.

PROJECT SPECIFIC NOTES

- THE THICKNESS OF BITUMINOUS MIXTURES SHOWN ON THE PLANS IS THE NOMINAL THICKNESS. DEVIATIONS FROM THE NOMINAL THICKNESS WILL BE PERMITTED WHEN SUCH DEVIATIONS OCCUR DUE TO IRREGULARITIES IN THE EXISTING SURFACE OR BASE ON WHICH THE BITUMINOUS MIXTURE IS PLACED.
- 2. EXCEPT AS NOTED IN THE PLANS, PAVEMENT GRADES SHOWN ARE AT THE TOP OF
- 3. WHERE SECTION OR SUBSECTION MONUMENTS ARE ENCOUNTERED. THE ENGINEER SHALL BE NOTIFIED BEFORE SUCH MONUMENTS ARE REMOVED. THE CONTRACTOR SHALL PROTECT AND CAREFULLY PRESERVE ALL PROPERTY MARKERS AND MONUMENTS UNTIL THE OWNER OR AN AUTHORIZED SURVEYOR OR AGENT HAS WITNESSED OR OTHERWISE REFERENCED THEIR LOCATION. THE CONTRACTOR WILL BE ESPONSIBLE FOR HAVING AN AUTHORIZED SURVEYOR RE-ESTABLISH ANY SECTION OR SUBSECTION MONUMENTS DESTROYED BY HIS OPERATIONS.
- SEEDING WILL NOT BE PERMITTED AT ANY TIME WHEN THE GROUND IS FROZEN, WET OR IN AN UNTILLABLE CONDITION. AREAS TO BE SEEDED SHALL BE DETERMINED BY THE ENGINEER AND SEEDED AS SOON AS POSSIBLE.

- 5. ALL SAW CUTS, NECESSARY TO COMPLETE THE WORK DETAILED IN THESE PLANS, SHALL BE INCLUDED IN THE COST FOR THE VARIOUS PAY ITEMS INVOLVED. THE MINIMUM SAW CUT DEPTH IN THE PAVEMENT SHALL BE 1 1/2" UNLESS OTHERWISE SPECIFIED IN A DETAIL
- 6. UNLESS DIRECTED BY THE ENGINEER, PAVEMENT MARKING LINES SHALL NOT BE LAID DIRECTLY OVER A LONGITUDINAL CRACK OR JOINT NOR OVER A TAR OR ASPHALT PAINTED LINE. THE EDGE OF A CENTERLINE OR LANE LINE SHALL BE OFFSET A MINIMUM DISTANCE OF 2" FROM A LONGITUDINAL CRACK OR JOINT. EDGE LINES SHALL BE APPROXIMATELY 2" FROM THE EDGE LINE OF PAVEMENT. SEE SECTION 780 OF THE STANDARD SPECIFICATIONS FOR TRAFFIC CONTROL ITEMS.
- ABANDONED UNDERGROUND UTILITIES THAT CONFLICT WITH CONSTRUCTION SHALL BE DISPOSED OUTSIDE THE LIMITS OF RIGHT OF WAY ACCORDING TO ARTICLE 202,03 OF THE STANDARD SPECIFICATIONS AND AS DIRECTED BY THE ENGINEER. THIS WORK WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE COST PER CUBIC YARD FOR EARTH EXCAVATION AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.
- 8. ANY REFERENCE TO A STANDARD IN THESE PLANS SHALL BE INTERPRETED TO MEAN THE EDITION AS INDICATED BY THE SUB-NUMBER LISTED IN THE INDEX OF SHEETS OR THE COPY OF THE STANDARD INCLUDED IN THESE PLANS.
- 9. IN ADDITION TO THE FIELD SURVEYS, PLAN DIMENSIONS AND DETAILS RELATIVE TO THE EXISTING FACILITIES HAVE BEEN TAKEN FROM EXISTING PLANS AND ARE SUBJECT TO CONSTRUCTION VARIATIONS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY SUCH DIMENSIONS AND DETAILS IN THE FIELD. SUCH VARIATIONS SHALL NOT BE A CAUSE FOR ADDITIONAL COMPENSATION DUE TO CHANGE IN THE SCOPE OF WORK. HOWEVER, THE CONTRACTOR WILL BE PAID FOR THE QUANTITY ACTUALLY FURNISHED AT THE UNIT PRICE BID FOR THE WORK.
- 10. THE EXISTING ROAD SIGNS THAT INTERFERE WITH CONSTRUCTION WILL BE REMOVED OR RELOCATED AS DIRECTED BY THE ENGINEER. AFTER THE CONSTRUCTION IS COMPLETED, THE CONTRACTOR WILL REPLACE THE SIGNS AS DIRECTED BY THE ENGINEER. THIS WORK WILL NOT BE PAID SEPARATELY BUT SHALL BE CONSIDERED INCLUDED IN THE CONTRACT, AND NO COMPENSATION WILL BE ALLOWED.
- 11. THE LOCATIONS OF EXISTING UTILITIES ARE NOT SHOWN ON THE PLANS, IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO HAVE THE UTILITIES LOCATED BEFORE BEGINNING ANY WORK.
- 12. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING UTILITY PROPERTY FORM CONSTRUCTION OPERATIONS AS OUTLINED IN ARTICLE 107.31 OF THE STANDARD SPECIFICATIONS. THE J.U.L.I.E. NUMBER IS 800-892-0123. A MINIMUM OF FORTY-EIGHT HOURS ADVANCE NOTICE IS
- 13. THE DISTRICT BUREAU OF OPERATIONS SHALL BE NOTIFIED AT LEAST 14 DAYS PRIOR TO PLACEMENT OF FINAL PAVEMENT MARKING (PHONE: 309-671-4460).
- 14. EXCAVATION REQUIRED FOR WIDENING SHALL BE PAID FOR AS EARTH EXCAVATION.

COMMITMENTS:

THE FOLLOWING RATES OF APPLICATION HAVE BEEN USED TO CALCULATE THE PLAN QUANTITIES:

HOT MIX ASPHALT MATERIALS (PRIME COAT) HOT MIX ASPHALT MATERIALS (PRIME COAT) HOT MIX ASPHALT SURFACE / BINDER AGGREGATE MATERIAL RIPRAP NITROGEN FERTILIZER NUTRIENT PHOSPHOROUS FERTILIZER NUTRIENT POTASSIUM FERTILIZER NUTRIENT AGGREGATE PRIME COAT

0.00038 TON/SQ. YD. (ON PAVEMENT) 0.001425 TON/SQ. YD. (ON AGG) 0.056 TON/SQ. YD. PER 1" 2.05 TON/CU, YD. 1.35 TON/CU. YD. 90 LBS./ACRE 90 LBS./ACRE 90 LBS./ACRE 0.002 TON/SQ. YD.

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MIXTURE REQUIREMENTS

LOCATION(S)	SURFACE	BINDER	
· MIXTURE USE(S):	HOT-MIX ASPHALT SURFACE COURSE MIX "D", NSO, AND HOT-MIX ASPHALT SHOULDERS, 2"	POLYMERIZED LEVELING BINDER (MACHINE METHOD), N50 & TEMPORARY RAMP	BASE COURSE WIDENING
AC/PG:	PC 64-22	SBS 70-22	PG 64-22
(MAX). RAP%	15%	0%	25%
DESIGN AIR VOIDS:	4.2% e N DESIGN = 50	2.5% c N DESIGN = 50	4.2% e N = 50
MIXTURE COMPOSITION:	IL 9.5 OR 12.5	IL 4.75	IL 19.0
FRICTION AGGREGATE:	MIX D (DOLOMITE ONLY)	N/A	N/A

. IF THE RAP OPTIONS SELECTED THE ASPHALT CEMENT GRADE MAY BE ADJUSTED. THIS WILL BE DETERMINED BY THE ENGINEER. ILLINOIS DEPARTMENT OF TRANSPORTATION GENERAL NOTES PROJECT SPECIFIC NOTES. AND COMMITMENTS US 67 OVER TROUBLESOME CREEK FAP 310 SECTION (39B)! McDONOUGH COUNTY

CONTRACT NO. 68692

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	SUMMARY OF	ROADWAY FAP 310 80% FEDERAL 20% STATE	STRUCTURE SN.055-000 80% FEDERAL 20% STATE		
CODE NO.	ITEM	UNIT	TOTAL		CTION TYPE CODE
CODE NO.	LICM	UNIT	QUANTITY	1000-2A	X080~2A
20200100	EARTH EXCAVATION	CU YD	105	105	
20400800	FURNISHED EXCAVATION	CU YD.	321	321	
21101615	TOPSOIL FURNISH AND PLACE, 4"	SO YD	797	797	
25000300	SEEDING, CLASS 3	ACRE	0.16	0.16	
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	14	14	
25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	14	14	
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	14	14	
25100630	EROSION CONTROL BLANKET	SQ YD	774	774	
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	16	16	
28000300	TEMPORARY DITCH CHECKS	EACH	4	4	
28000400	PERIMETER EROSION BARRIER	FOOT	2640	2640	
28100125	STONE RIPRAP, CLASS B3	SQ YD	94	94	
31100300	SUB-BASE GRANULAR MATERIAL, TYPE A 4"	SQ YD.	. 114	114	
35300400	PORTLAND CEMENT CONCRETE BASE COURSE 9"	SQ YD.	114	114	
35600716	HOT-MIX ASPHALT BASE COURSE WIDENING, 10"	SQ YD	505	505	
40600200	BITUMINOUS MATERIALS (PRIME COAT)	TON	0.93	0.93	
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SQ YD	220	220	
40600990	TEMPORARY RAMP	SQ YD	100	100	
40603335	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50	TON	140	140	
44000100	PAVEMENT REMOVAL	SQ YD	425	425	
48203100	HOT-MIX ASPHALT SHOULDERS	TON	65	65	
50101500	REMOVAL OF EXISTING SUPERSTRUCTURES	EACH	1		1
50300225	CONCRETE STRUCTURES	CU YD	0.4		0.4
50300260	BRIDGE DECK GROOVING	SQ,YD	399		399
50300300	PROTECTIVE COAT	SQ YD	425		425
50400105	PRECAST CONCRETE BRIDGE SLAB	SQ FT	299		299
50400305	PRECAST PRESTRESSED CONCRETE DECK BEAMS (17" DEPTH)	SQ FT	2500		2500
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	5340		5340
50800515	BAR SPLICERS	EACH	117		117
¥ 50901050	STEEL RAILING, TYPE SM	FOOT	232		232
51500100	NAME PLATES	EACH	1		1
54002020	EXPANSION BOLTS 3/4 INCH	EACH	16		16
59000200	EPOXY CRACK INJECTION	FOOT	19		19
★ 63000000	STEEL PLATE BEAM GUARDRAIL, TYPE A	FOOT	462.5	462.5	
* 63100087	TRAFFIC BARRIER TERMINAL, TYPE 6A	EACH	4	4	
# 63100061 # 63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	4	4	
63200310	GUARDRAIL REMOVAL	FOOT	822	822	

* SPECIALTY ITEM

ILLINOIS DEPARTMENT OF TRANSPORTATION	NS	REVISION
TELINOIS DELANTMENT OF THANSPORTATIO	DATE	NAME
	1/30/08	K.JH
SUMMARY OF QUANTITIES		· · · · · · · · · · · · · · · · · · ·
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US 67 OVER TROUBLESOME CREE		
FAP 310 SECTION (39B)I		
McDONOUGH COUNTY		
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SCALE: VERT. HORIZ. DATE #DATE

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CONTRACT NO. 68692

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	SUMMARY OF QUANTITIE	ROADWAY FAP 310 80% FEDERAL 20% STATE	STRUCTURE SN.055-0005 80% FEDERAL 20% STATE			
CODE NO.	ITEM	UNIT	TOTAL QUANTITY		CTION TYPE CODE	
			QUANTIT	I000-2A	X080-2A	
67000400	ENGINEER'S FIELD OFFICE. TYPE A	CAL MO	6	6		
67000400		L SUM	1	,		
67100100 70100405	MOBILIZATION TRAFFIC CONTROL AND PROTECTION, STANDARD 701321	EACH	1	,		
	TRAFFIC CONTROL AND PROTECTION, STANDARD 701201	L SUM	1	;		
70100450 70100500	TRAFFIC CONTROL AND PROTECTION, STANDARD 701201	L SUM	1			
70103815	TRAFFIC CONTROL SURVEILLANCE	CAL DA	A	4		
	TEMPORARY BRIDGE TRAFFIC SIGNALS	EACH	1	1		
70106500	SHORT-TERM PAVEMENT MARKING	FOOT	133	133		
70300100		FOOT	1410	1410		
70300220	TEMPORARY PAVEMENT MARKING - LINE 4"	SQ. FT	747	747		
70301000	WORK ZONE PAVEMENT MARKING REMOVAL	FOOT	362.5	362.5		
70400100	TEMPORARY CONCRETE BARRIER RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	362.5	362.5		
70400200	PAINT PAVEMENT MARKING - LINE 4"	FOOT	1410	1410		
* 78001110 * 78300410	GUARDRAIL MARKERS, TYPE A	EACH	51	51	And the second s	
* 78200410		EACH	4	4		
* 78201000	TERMINAL MARKER - DIRECT APPLIED PAVEMENT MARKING REMOVAL	SQ FT	470	470		
78300100 78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	10	10		
X0301512	GUARDRAIL AGGREGATE EROSION CONTROL	TON	214	214		
X0301512 X0325305	STRUCTURAL REPAIR OF CONCRETE (DEPTH EQUAL TO OR LESS THAN 5 INCHES)	SQ FT	49	214	49	
l l	POLYMERIZED LEVELING BINDER (MACHINE METHOD), IL-4.75, N50	TON	52	52	73	
X4067107	·	SQ YD	425	32	425	
X5030305	CONCRETE WEARING SURFACE, 5"	EACH	52		52	
Z0001900	ASBESTOS BEARING PAD REMOVAL	L SUM	1	1	52	
Z0013798	CONSTRUCTION LAYOUT	EACH	2	2		
20030260	IMPACT ATTENUATORS, TEMPORARY (FULLY REDIRECTIVE, NARROW), TEST LEVEL 3	EACH	2	2		
20030330	IMPACT ATTENUATORS, RELOCATE (FULLY REDIRECTIVE), TEST LEVEL 3		14	14		
X7015005	CHANGEABLE MESSAGE SIGN	CAL DA	14	7.7		
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	*SPECIALTY ITEM					

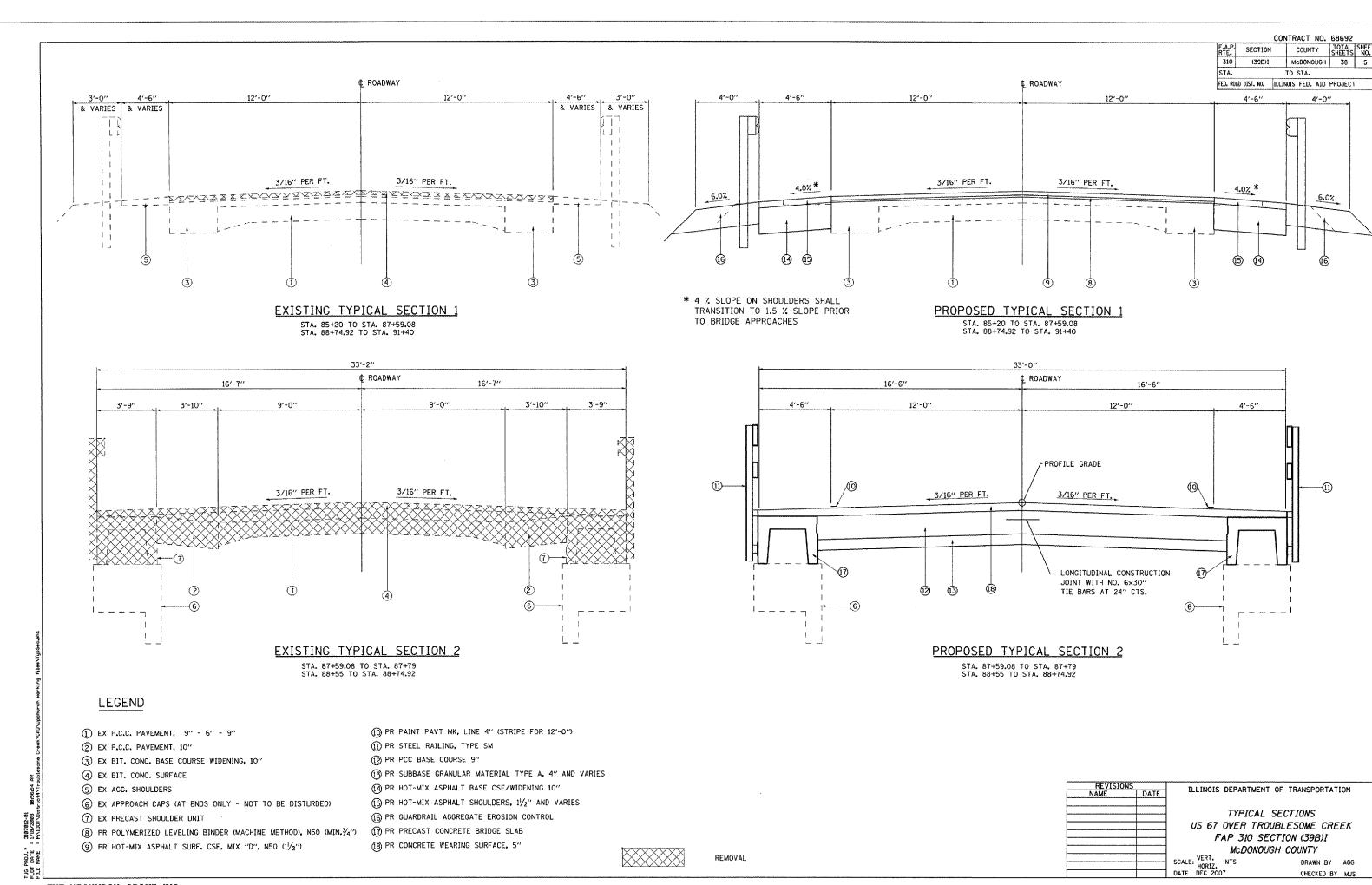
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ILLINOIS DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES
US 67 OVER TROUBLESOME CREEK
FAP 310 SECTION (39B)I
MCDONOUGH COUNTY

SCALE: VERT. HORIZ. DATE *DATE

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GL	GUARDRAIL SCHEDULE						
LOCATION	TRAFFIC BARRIER TERMINAL TYPE I SPECIAL (TANGENT) (EACH)	BEAM GUARDRAIL	TRAFFIC BARRIER TERMINAL TYPE 6A (EACH)				
STA RT 85+15.94 TO 85+65.94	1						
STA RT 85+65.94 TO 87+15.94		150.0					
STA RT 87+15.94 TO 87+61.88			1				
STA RT 88+72.13 TO 89+18.07			1				
STA RT 89+18.07 TO 90+05.57		87.5					
STA RT 90+05.57 TO 90+55.57	1						
STA LT 86+03.44 TO 86+53.44	1						
STA LT 86+53.44 TO 87+15.94		62.5					
STA LT 87+15.84 TO 87+61.88			1				
STA LT 88+72.13 TO 89+18.07			1 .				
STA LT 89+18.07 TO 90+80.57		162.5					
STA LT 90+80.57 TO 91+30.57	1						
TOTAL	4	462.5	4				

PAVEMENT MARKING SCHEDULE							
		3	MARKING EMOVAL		ERM PVMT LINE - 4"	_	VMT MARKING NE - 4"
LOCATION	LENGTH (FOOT)	SOLID WHITE (SO. FT.)	YELLOW SKIP DASH & NO PASSING (SQ. FT.)	WHITE (FOOT)	YELLOW (FOOT)	SOLID WHITE (FOOT)	YELLOW SKIP DASH & NO PASSING (FOOT)
STA 84+85.00 TO 91+50			56.67		133.0		170.0
STA RT 85+20.00 TO 91+40.00		206.67				620.0	
STA LT 85+20.00 TO 91+40.00		206.67				620.0	
TOTAL		413.34	56.67	0	133	1240.0	170

NOTE: SHORT-TERM PAVEMENT MARKING QUANTITIES ARE FOR TWO APPLICATION. • 10% OF TOTAL LENGTH FOR SHORT-TERM PAVEMENT MARKING

SUB-BASE GRANULAR MATERIAL, TYPE A, 4" SCHEDULE						
LOCATION QUANTITY (SO. YD.)						
STA 87+59.08 TO STA 87+79.00	56.81					
STA 88+55.00 TO STA 88+74.92	56.81					
TOTAL	113.62					

SE GRANULA PE A. 4" S		PORTLAND CEMENT CONCRETE BASE COURSE. 9" SCHEDULE
	QUANTITY (SO. YD.)	LOCATION QUANTITY (SO. YD.)
A 87+79.00	56.81	STA 87+59.08 TO STA 87+79.00 56.81
FA 88+74.92	56.81	STA 88+55.00 TO STA 88+74.92 56.81
TOTAL	113.62	TOTAL 113.62

GUARDRAIL AGGREGAT EROSION CONTROL SCHEE	
LOCATION	QUANT (TON
STA RT 84+88.94 TO 87+61.00	61.5
STA RT 88+73.00 TO 90+82.57	46.
STA LT 85+76.44 TO 87+61.00	40.
STA LT 88+73.00 TO 91+57.57	64.
TOTAL	213

ENGINEER'S FIELD OFFICE, TYPE A

TOTAL

LOCATION

			CONTR	ACT	NO.	68692	
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RAISED REFLECT PAVEMENT MARKER REMOV	
LOCATION	RAISED REFL PAVT MRK REM (EACH)
STA 84+85 TO STA 91+50	10
TOTAL	10

PRECAST CONCRET BRIDGE SLAB SCHED	-
LOCATION	QUANTITY (SQ. FT.)
STA RT 87+59.08 TO 87+79.00	74,70
STA LT 87+59.08 TO 87+79.00	74.70
STA RT 88+55.00 TO 88+74.92	74.70
STA LT 88+55.00 TO 88+74.92	74.70
TOTAL	298.80

PAVEMENT REMOVAL S	
LOCATION	OUANTITY (SQ. YD.)
STA RT 87+59.08 TO 88+74.92	231.68
STA LT 87+59.08 TO 88+74.92	193.07

QUANTITY (CAL MO)

6

HOT MIX ASPHAL SURFACE REMOVAL- BUTT JO	
LOCATION	QUANTITY (SQ. YD.)
STA 85+20 TO STA 85+50	110
STA 91+10 TO STA 91+40	110
TOTAL	220

PERIMETER EROSI BARRIER SCHEDUL	
LOCATION	QUANTITY (FOOT)
STA RT 84+80.00 TO 91+40.00	1320
STA_LT 85+20.00 TO 91+80.00	1320
TOTAL	2640

GUARDRAIL REMOVAL SC	HEDULE
LOCATION	QUANTITY (FOOT)
STA RT 85+24 TO 87+59	235
STA LT 86+11 TO 87+59	148
DTA RT 88+75 TO 90+57	182
STA LT 88+75 TO 91+32	257
TOTAL	822

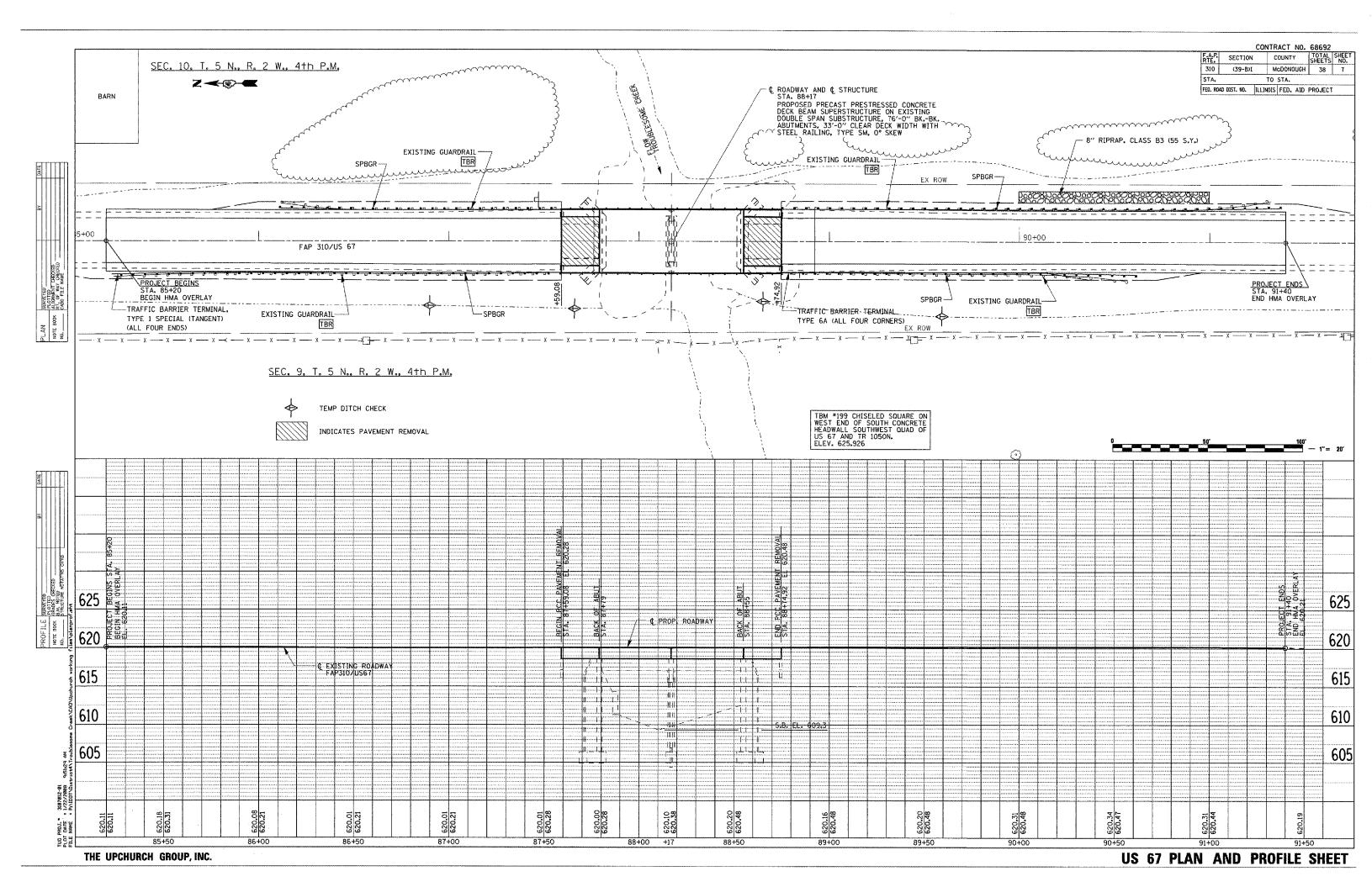
		EARTHWORK	SCHEDULE		
LOCATION		EARTH EXCAVATION (CU. YD.)	EARTH EXCAVATION ADJUSTED FOR SHRINKAGE (CU. YD.)	EMBANKMENT	EARTHWORK BALANCE WASTE (+) OF SHORTAGE (-) (CU. YD.)
	TOTAL	105	79	400	-321

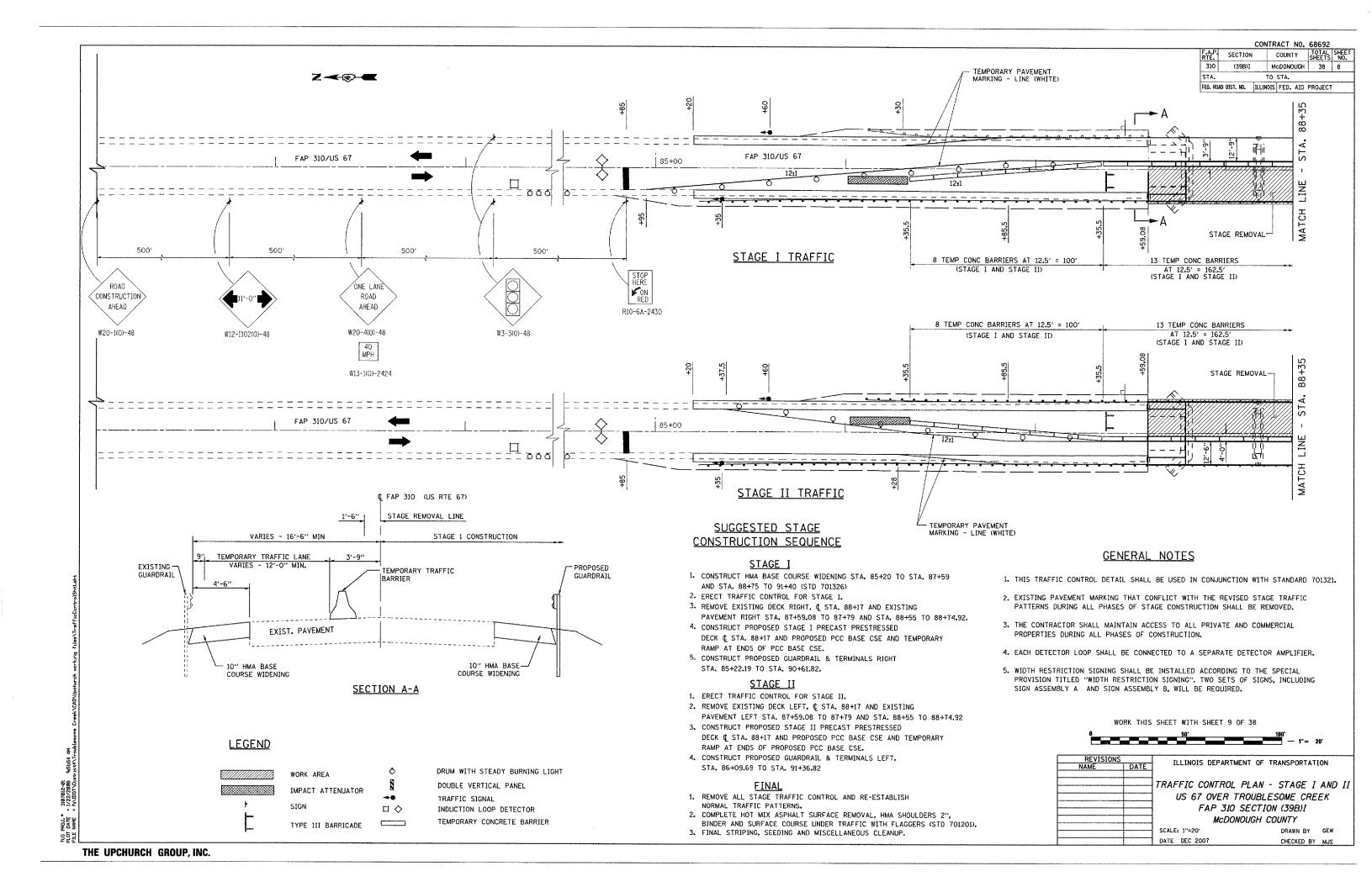
GUARDRAIL & TE	RMINAL	MARKERS SCI	HEDULE
LOCATION		GUARDRAIL MARKERS TYPE A	TERMINAL MARKER DIRECT APPLIED
•		(EACH)	(EACH)
STA RT 85+15.94	,		ı
STA RT 85+65.94 TO 90	+05.57	18	
STA RT 87+48.00 TO 88	+85.50	6	,
STA RT 90+55.57			· 1
STA LT 86+03.44	ļ		1
STA LT 86+53.44 TO 90	+80.57	21	
STA LT 87+48.00 TO 88	+85.50	6	
STA LT 91+30.57			1
т	OTAL	51	4

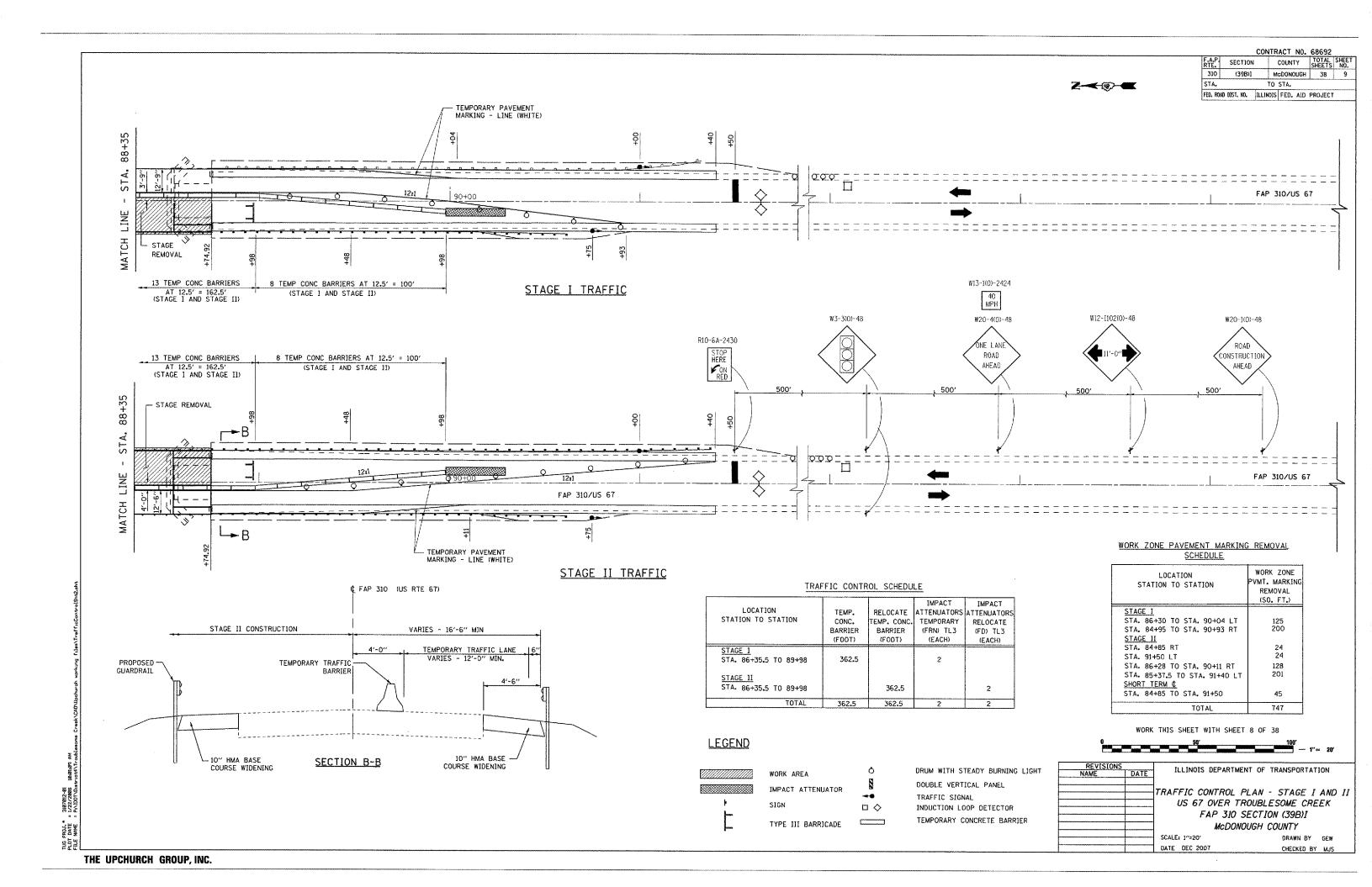
		HOT M	IX ASPHALT SCHE	DULE	•	
LOCATION	TEMPORARY RAMP	POLYMERIZED LEVELING BINDER (MACHINE METHOD), NSO	HOT MIX ASPHALT SURFACE COURSE MIX "D", N50	BITUMINOUS MATERIALS (PRIME COAT)	HOT-MIX ASPHALT BASE COURSE WIDENING, 10"	HOT-MIX ASPHAL SHOULDERS
	(SO. YD.)	(TON)	(TON)	(TON)	(SQ. YD.)	(TON)
STA 85+20.00 TO 85+25.00	13.33					•
STA 85+20.00 TO 87+59.08			53.55	0.4436	239.08	28.61
STA 85+50.00 TO 86+50.00			7.47			
STA 86+50.00 TO 87+59.08		19.64				
STA 87+49.00 TO 87+59.00	36.67					
STA 87+59.08 TO 87+79.00						
STA 87+79.00 TO 88+55.00						
STA 88+75.00 TO 88+85.00	36.67					
STA 88+55.00 TO 88+74.92						
STA 88+74.92 TO 91+40.00			59.38	0.4810	265.08	35.82
STA 88+74.92 TO 89+85.00 STA 89+85.00 TO 91+10.00		32.28	9,33			
STA 91+35.00 TO 91+40.00	13.33		3433			
PROVISIONAL			9.41			
TOTAL	100.00	51.92	139.14	0.93	504.16	64.43

PERMANENT SEEDING SCHEDULE							
LOCATION	TOPSOIL FURNISH & PLACE, 4" (SO. YD.)	SEEDING CLASS 3 (ACRE)	NITROGEN FERT. NUT. (POUND)	PHOSPHORUS FERT.NUT. (POUND)	POTASSIUM FERT.NUT. (POUND)	EROSION CONTROL BLANKET (SQ. YD.)	TEMPORARY EROSION CONTROL SEEDING (POUND)
TOTAL	797	0.16	14.0	14.0	14.0	774	16

115 11010		THE INCIC DEPARTME	ENT OF TRANSPORTATION
NAME	DATE	ILLINOIS DEL'ANTINE	SAL OF THANSFORMATION
KJH	1/30/08		
		SCHEDULE (OF QUANTITIES
		US 67 OVER TI	ROUBLESOME CREEK
		FAP 310	SECTION (39B)[
		McDOM	OUGH COUNTY
		SCALE: N.T.S.	DRAWN BY GEW
		DATE #DATE	CHECKED BY MUS







SHEET 1 OF 12 SHEETS

SECTION COUNTY TOTAL SHEETS NO. (398)1 McDONOUGH 38 10 310 STA. TO STA. FED. ROAD DIST. NO. | ILLINOIS | FED. AID PROJECT

GENERAL NOTES

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

Reinforcement bars designated (E) shall be epoxy coated.

Plan dimensions and details relative to existing structure have been taken from existing plans and are subject to nominal construction variations. It shall be the Contractor's responsibility to verify such dimensions and details in the field and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall not be cause for additional compensation or a change in the scope at the work, however, the Contractor will be paid for the quantity actually furnished at the unit price for the work.

The Contractor is advised that the existing P.P.C. Deck Beams are in a deteriorated condition with reduced load bearing capacity. It is the Contractor's responsibility to account for the condition of the beams when developing construction procedures for removing and replacement of the superstructure.

The Minimum thickness of the Concrete Overlay shall be 5" and varies as required to adjust for the new profile grade and beam camber.

If the Contractor's procedure for existing beam removal or placement of new beams involves placement of heavy equipment on new beams, a detailed procedure shall be submitted to the Engineer for approval. The procedure shall include calculations prepared and sealed by an Illinois Licensed Structural Engineer verifying the structural adequacy of the beams for the proposed loads. Cost included with Removal of Existing Superstructure. No instream work will be allowed on this project.

Repairs of abutments and pier shall be completed prior to placement of the

TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
Removal of Existing Superstructures	Each	1		1
Concrete Structures	Cu. Yd.		0.4	0.4
Precast Concrete Bridge Slab	Sq. Ft.	299		299
Precast Prestressed Concrete Deck Beams (17" Depth)	Sq. Ft.	2500		2500
Reinforcement Bars, Epoxy Coated	Pound	5310	30	5340
Steel Railing, Type SM	Foot	232	***************************************	232
Name Plates	Each		1	1
Asbestos Bearing Pad Removal	Each	, ,	52	52
Epoxy Crack Injection	Foot		19	19
Structural Repair of Concrete	Sa. Ft.		49	49
(Depth Equal to or Less than 5")	34. FI.		,,,	73
Bridge Deck Grooving	Sq. Yd.	399		399
Protective Coat	Sq. Yd.	425		425
Concrete Wearing Surface, 5"	Sq. Yd.	425		425
Expansion Bolts 34" Ø	Éach	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	16	16
Bar Splicers	Each	117		117

APPROVED For Structural Adequacy Only

SolvE audersai Engineer of Bridges & Structures

R2W 4th P.M.

LOCATION SKETCH

Proposed

Structure

081-00487 STRUCTURAL ENGINEER Jehnah 01-22-08

J. SILVE

MARTIN J. SILVESTER STRUCTURAL ENGINEER LICENSE EXP. DATE 11-30-08

ILLINOIS DEPARTMENT OF TRANSPORTATION

GENERAL PLAN AND ELEVATION US 67 OVER TROUBLESOME CREEK FAP 310 SECTION (39B)I McDONOUGH COUNTY STR. 055-0005

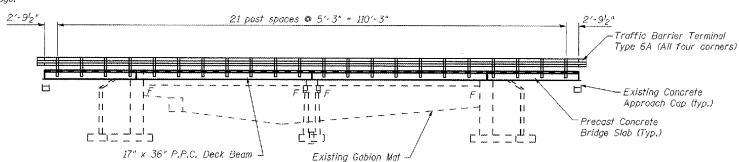
SCALE: N.T.S. DRAWN BY RMH DATE DEC 2007 CHECKED BY MJS

southwest guad of US67 and TR1050N. Elevation 625,926 Existing Structure: S.N. 055-0005. Built as S.B.I. Rte. 3, Section 39B at Sta, 88+17 in 1923, The existing PPC Deck Beams shall be removed and replaced. Superstructure removal shall be 33'-2" wide by 76'-0" long. Existing gablons in channel to remain,

Benchwork: TBM #199, Chiseled Square on west end of south concrete headwall

Traffic to be maintained using stage construction. One lane is to remain open at all times.

No salvage.



ELEVATION Z - (8)--Existing Gabion Mat — ハ ir Hi € FAP Rte 310 Station (US 67) Increase 41 -Stage Const. Line 111 (P.P.C. Deck Beams) Bk. S. Abut. (Exist.) Sta. 88+55 Bk. N. Abut. (Exist.) Sta. 87+79 © Plen S. Abut. Sta. 88+17 Elev. 620.48 Elev. 620.28 Elev. 620.38

76'-0" Bk. to B. Abuts.

PLAN

INDEX OF SHEETS

GENERAL PLAN AND ELEVATION STAGE CONSTRUCTION DETAILS SUPERSTRUCTURE DECK BEAM DETAILS APPROACH DETAILS SUPERSTRUCTURE DETAILS STEEL RAILING, TYPE SM SOUTH ABUTMENT NORTH ABUTMENT PIER DETAILS TEMPORARY CONCRETE BARRIER BAR SPLICER ASSEMBLY DETAILS

LOADING HS 20-44

50 lbs./sq. ft. allowance for future wearing surface.

DESIGN SPECIFICATIONS

2002 AASHTO Standard Specifications 17th Edition

DESIGN STRESSES

FIELD UNITS

19'-11"

 $f_c' = 3,500 \text{ psi}$

f_V = 60,000 psi (Reinforcement)

PRECAST PRESTRESSED UNITS

f'c = 5,000 psi

f'ci = 4,000 psi

f's = 270,000 psi (1/2" \$\phi\$ low lax strands) f'si = 201,960 psi (1/2" \$\phi\$ low lax strands)

PRECAST CONCRETE UNITS

+0.263%

19'-11"

PROFILE GRADE (Along & Roadway)

STATION 88+17 BUILT 20 BY STATE OF ILLINOIS F.A.P. RTE. 310 SEC. (39B)1 F.A.P. PROJ. LOADING HS20-44 STR. NO. 055-0005

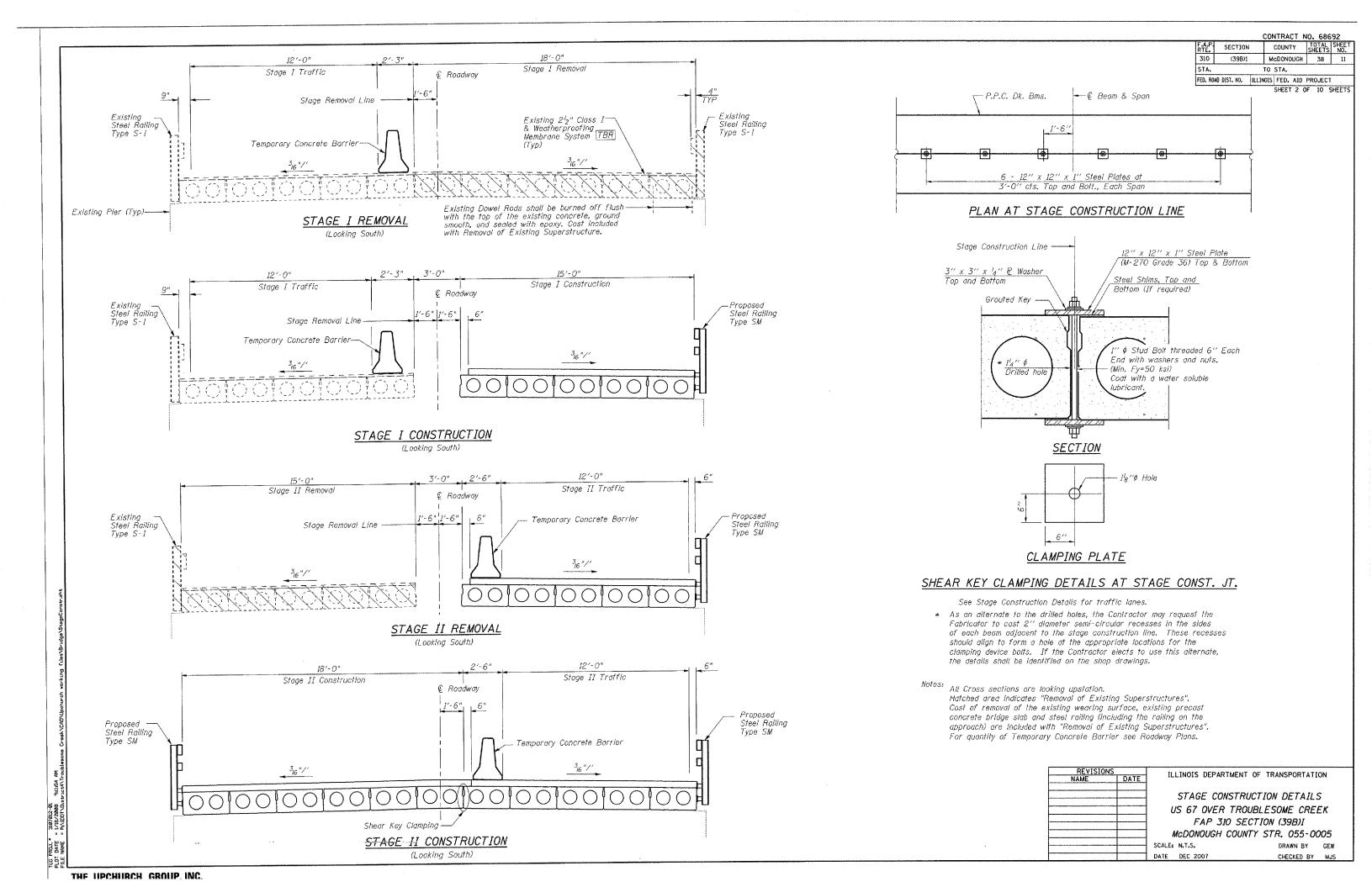
> NAME PLATE See Std. 515001

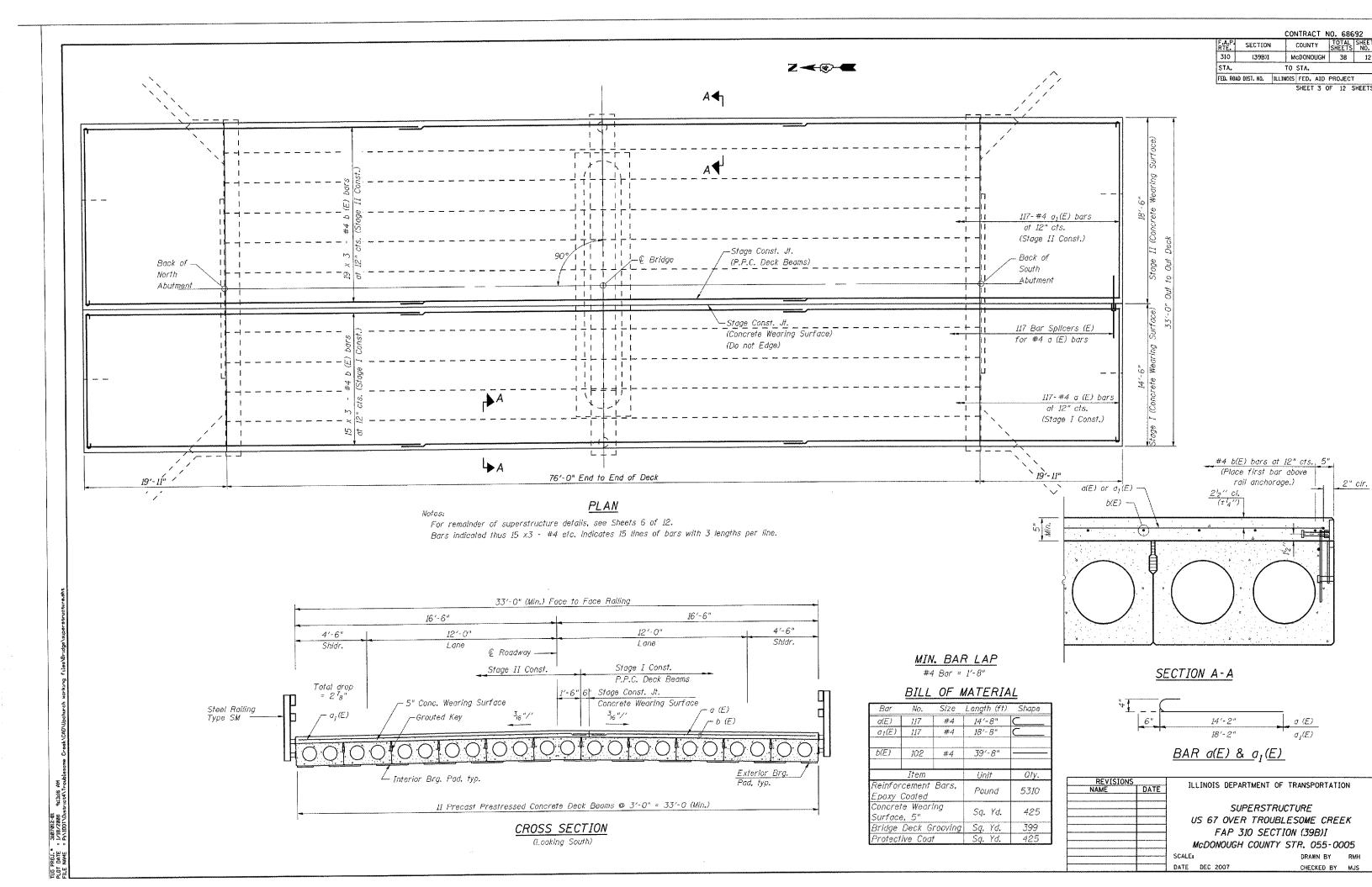
Attach new name plate to the backside of 8" rail element. Existing Name Plate shall be removed, cleaned and relocated adjacent to new Name Plate. Cost included with Name Plates.

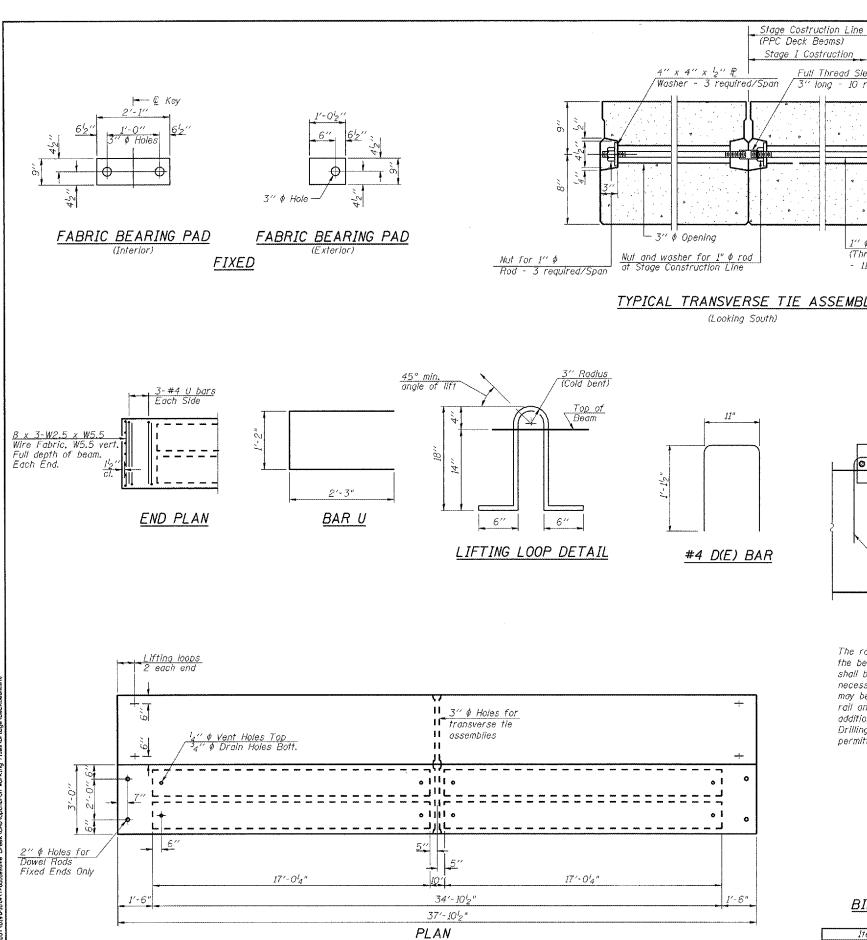
f'c = 4,500 psi

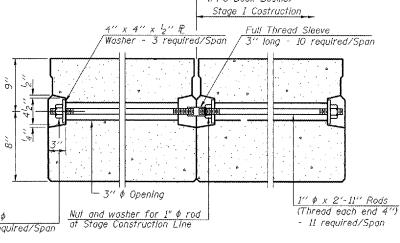
fy = 60,000 psi (Reinforcement)

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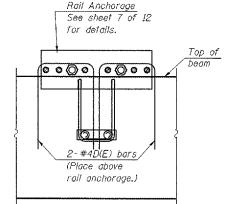








TYPICAL TRANSVERSE TIE ASSEMBLY



SECTION A-A

The rail anchorage shall be cast with the beam and the wearing surface shall be cast in the field. Formwork necessary for the wearing surface may be secured utilizing the bottom rail anchorage inserts and/or additional inserts cast into beam. Drilling into the beam will not be permitted.

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

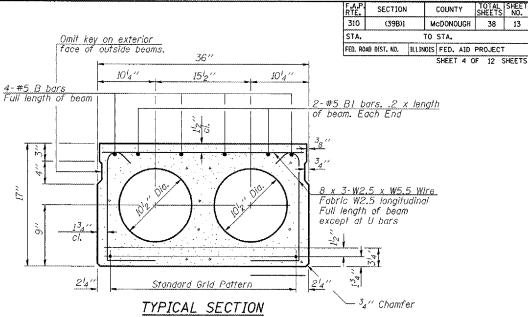
The bearing seat surfaces shall be adjusted by shimming to assure firm and even bearing. Two solutions of the Exterior Bearing Pad shall be provided for each

Keyway surfaces shall be cleaned to remove form oil or other bond breaking material prior to shipment of the beams. Cleaning shall be done by sandblasting the keyway areas between top of the beam and the bottom edge of the key.

concrete for precast prestressed concrete deck beams. Required Release Strength, f'ci, shall be 4,000 p.s.i. See Sheet 6 and 7 of 12 for rail anchorage locations.

BILL OF MATERIAL

Item	Unit	Quantity
Precast Prestressed Conc. Deck Bms.	Sq. Ft.	2500



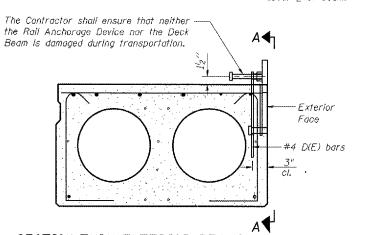
13 -½" ϕ Strands, Each Strand Stressed to 30,900 Lbs, 7-Strands 134" up, 4-Strands 3_4 " up, 2-Strands 12" up

Place strands symmetrically about © of beam.

CONTRACT NO. 68692

COLINTY

TOTAL SHEE SHEETS NO.



SECTION THRU EXTERIOR BEAMS

See Typical Secton for strand pattern, dimensions and bar locations.

NOTES

Prestressing steel shall be uncoated high strength, low relaxation 7-wire strand, Grade 270. The nominal diameter shall be 2'' and the nominal cross-sectional area shall be 0.153 sq. in. Lifting loops shall be $2 \cdot 2''$ ϕ -270 ksi strands, as shown.

The 1'' ϕ rods in the transverse tie assembly shall be tightened to a snug fit and the threads

set. Pockets that receive transverse tie bar on outside shall be filled with grout after transverse tie assembly is in place.

Corrosion Inhibitor, per Article 1020.05(b)(12) of the Standard Specifications, shall be used in the

DATE

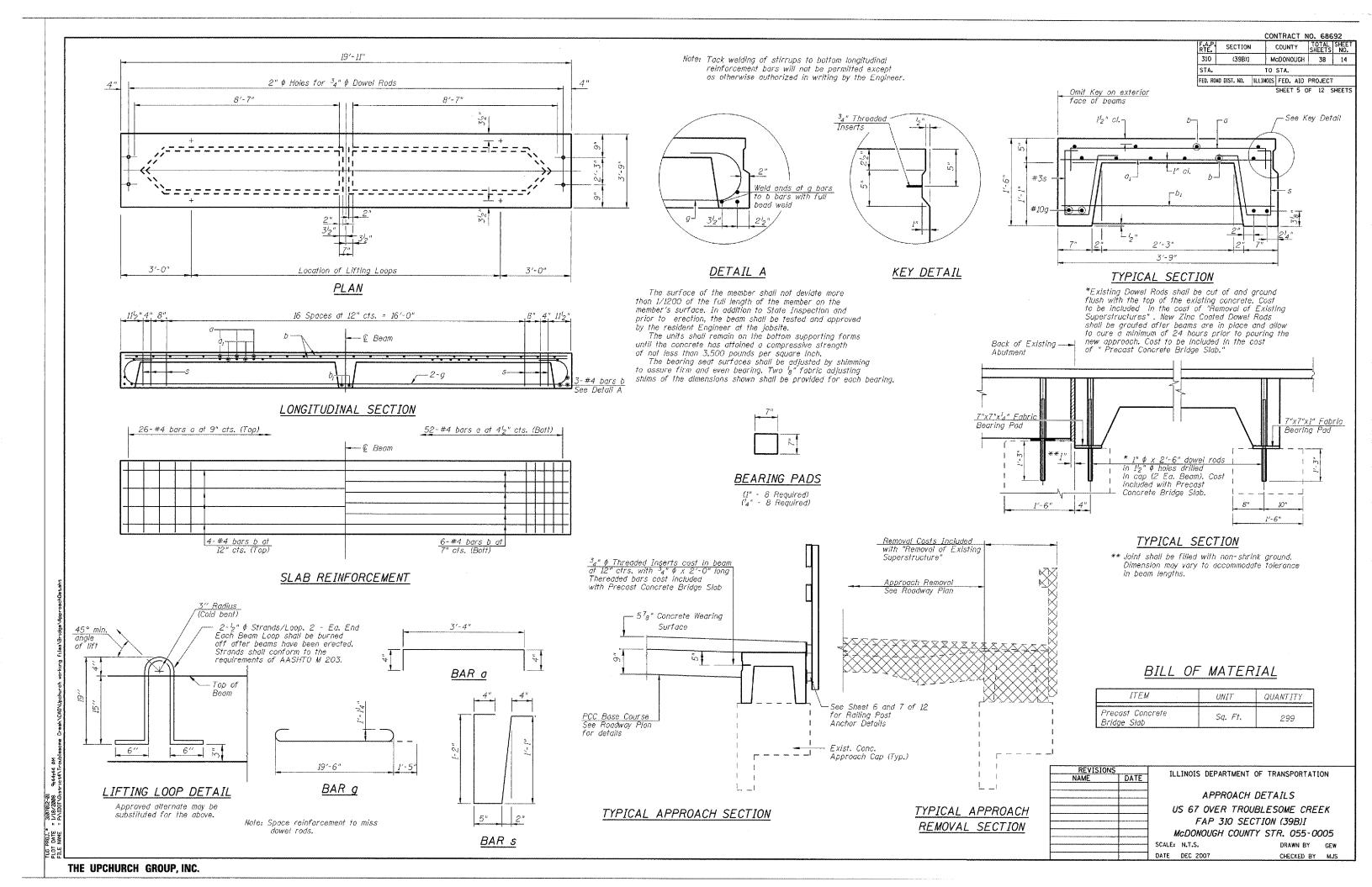
ILLINOIS DEPARTMENT OF TRANSPORTATION

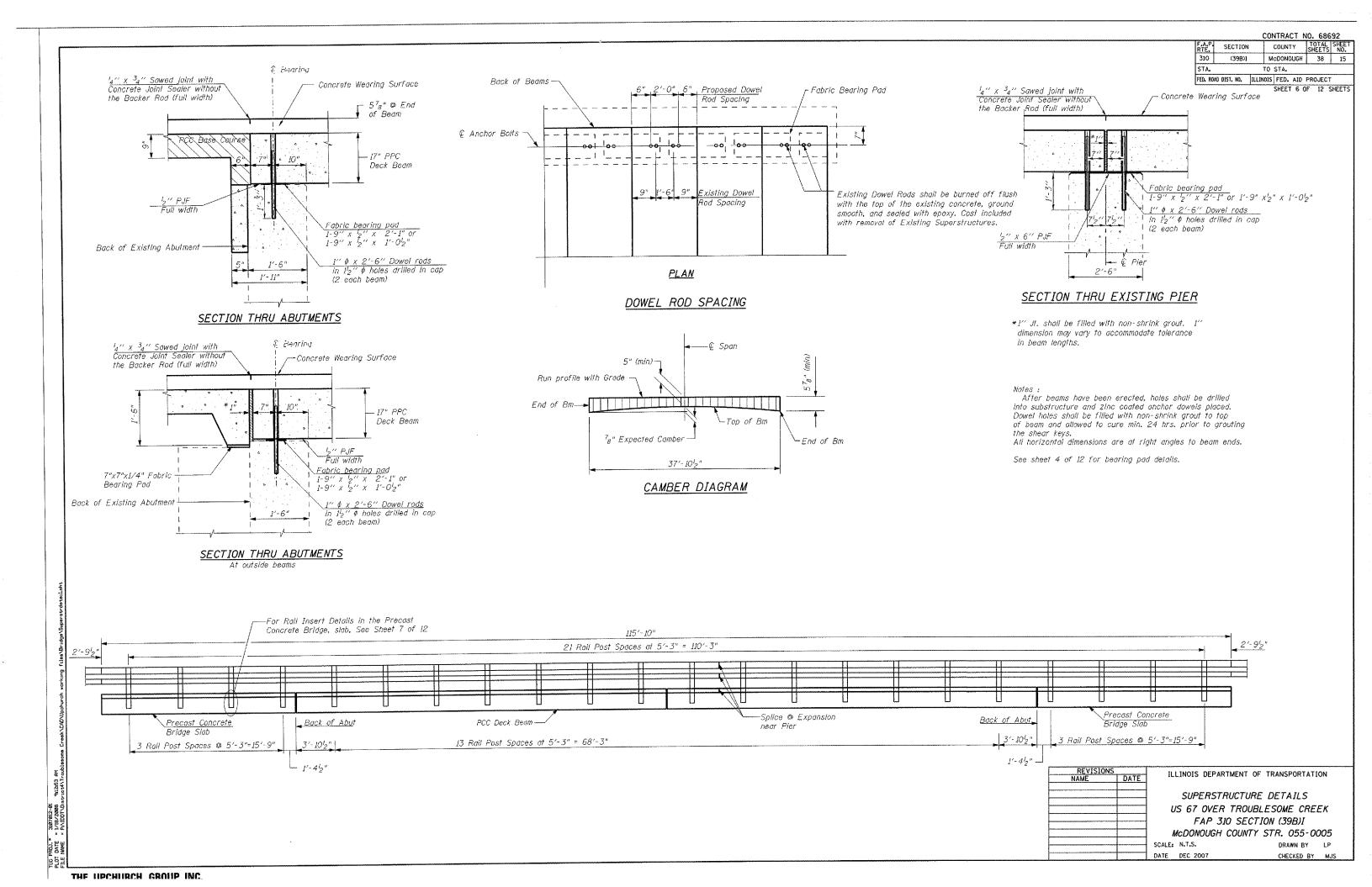
DECK BEAM DETAILS US 67 OVER TROUBLESOME CREEK FAP 310 SECTION (39B)I McDONOUGH COUNTY STR. 055-0005

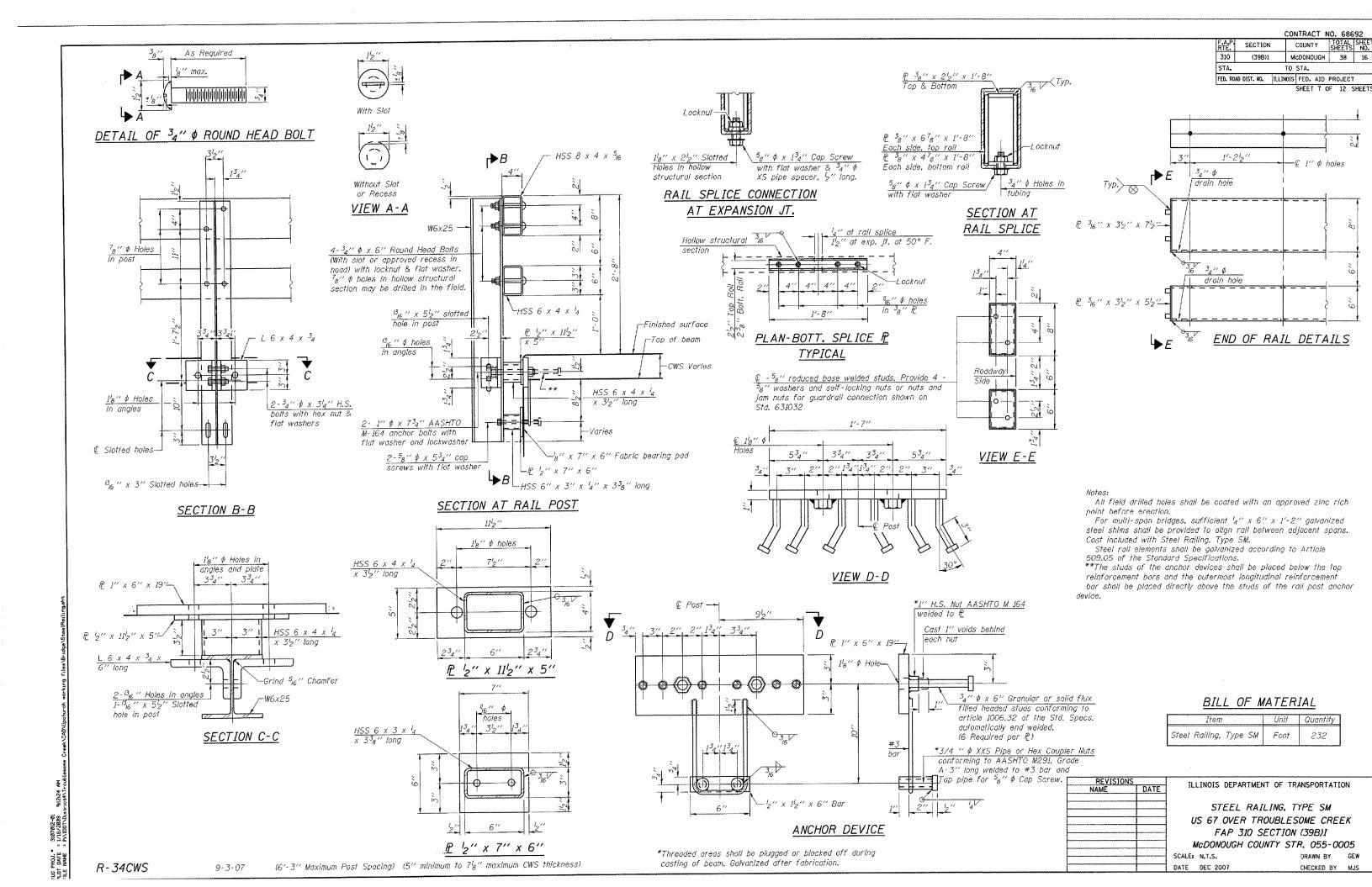
DATE DEC 2007

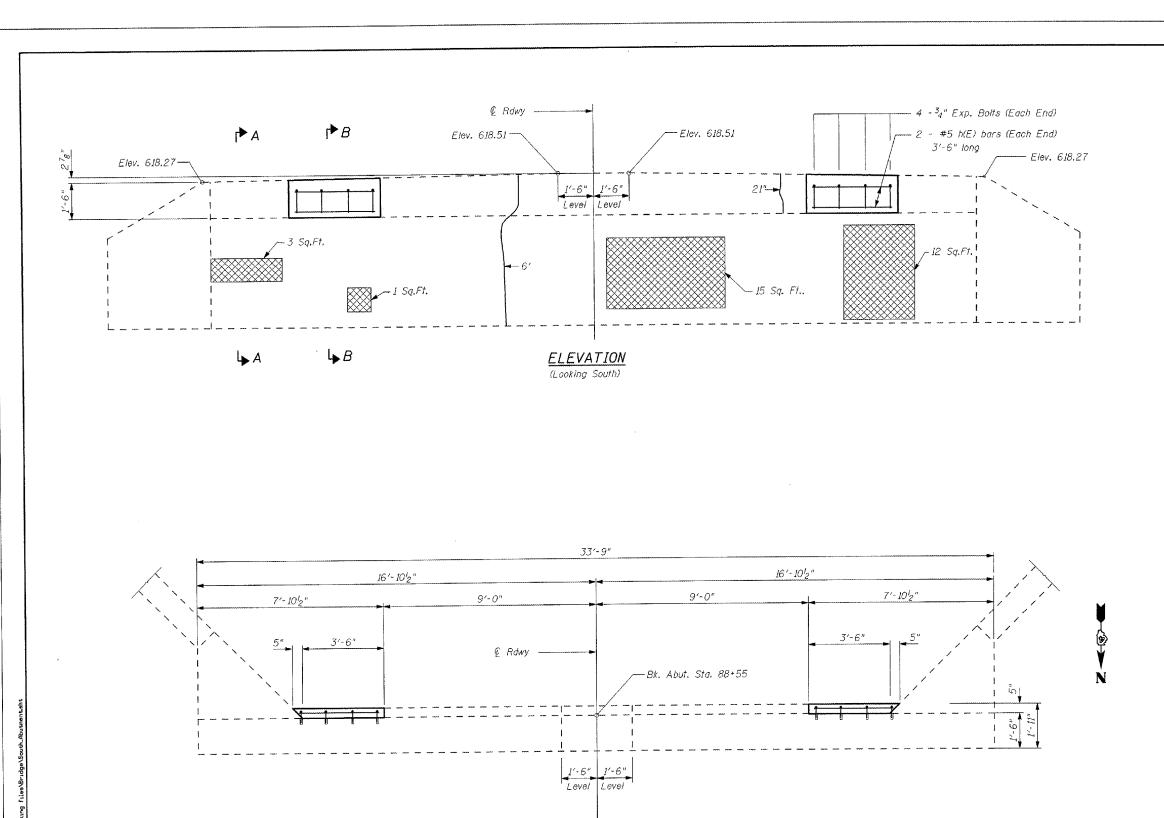
DRAWN BY CHECKED BY

THE UPCHURCH GROUP, INC.





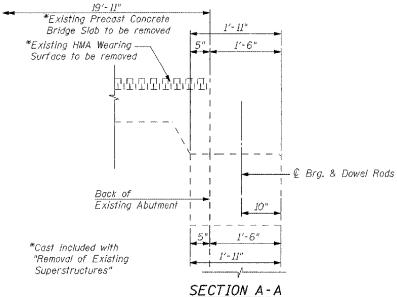


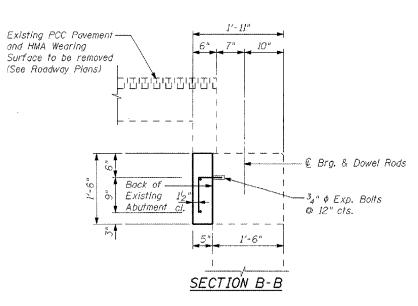


PLAN

| CONTRACT NO. 68692 | RTE. | SECTION | COUNTY | TOTAL SHEETS NO. 310 | (39B)1 | McDONOUGH | 38 | 17 | STA. | TO STA. | TO STA. | FED. ROAD DIST. NO. | ILLINOIS | FED. AID | PROJECT |

SHEET 8 OF 12 SHEETS





BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Concrete Structures	Cu. Yd.	0.2
Reinforcement Bars, Epoxy Coated	Pound	15
Expansion Bolts ³ 4" φ	Each	8
Epoxy Crack Injection .	Foot	8
Structural Repair of Concrete (Depth equal to or less than 5")	Sq. Ft.	31

DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

SOUTH ABUTMENT
US 67 OVER TROUBLESOME CREEK
FAP 310 SECTION (39B)I
MCDONOUGH COUNTY STR. 055-0005

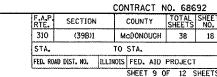
McDONOUGH COUNTY STR. 055-0005
SCALE: DRAWN BY RMH
DATE DEC 2007 CHECKED BY MJS

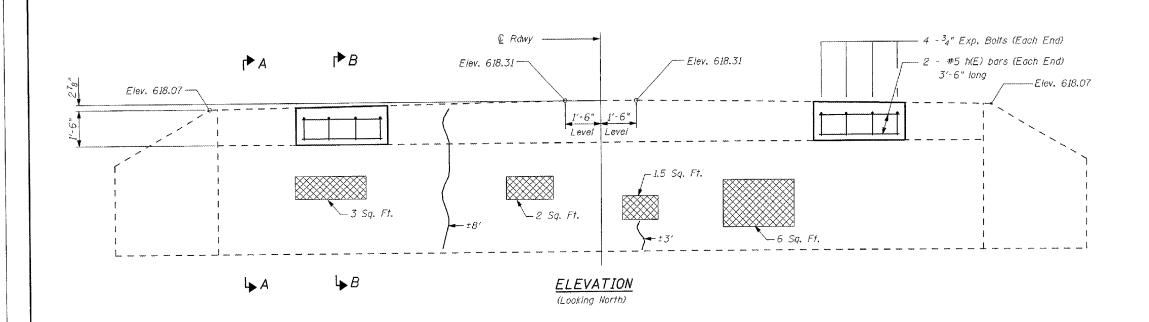
H.L. Hairline Crack (not to be sealed)

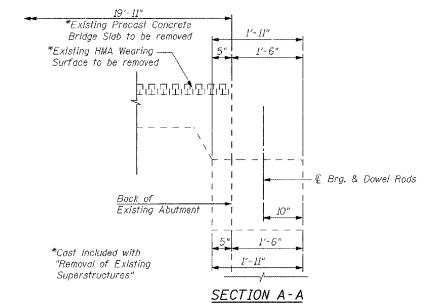
LEGEND

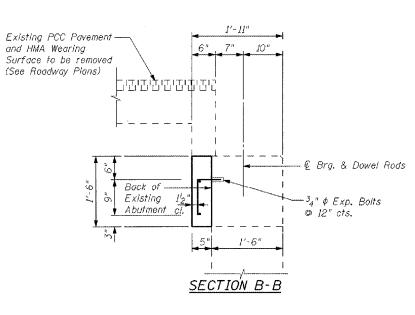
Structural repair of Concrete (Depth equal to or less than 5")

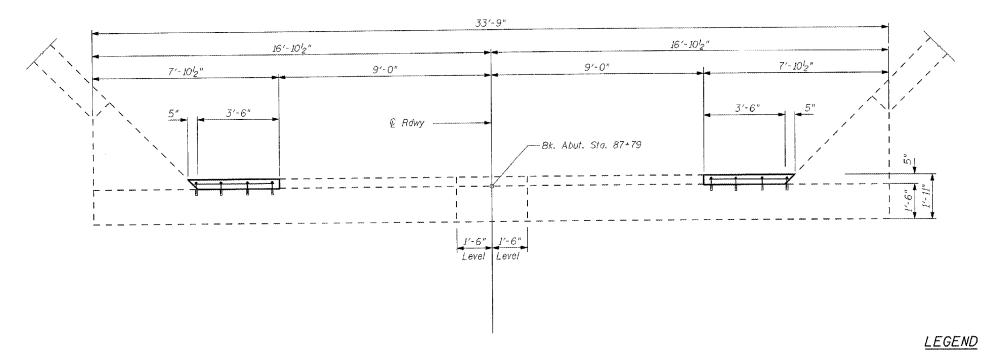
Epoxy Crack Injection (Crack widths shown are approx. 1₁₆" to 1₈" in width)











PLAN

BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Concrete Structures	Cu. Yd.	0.2
Reinforcement Bars, Epoxy Coated	Pound	15
Expansion Bolts ³ 4" φ	Each	8
Epoxy Crack Injection	Foot	11
Structural Repair of Concrete (Depth equal to or less than 5")	Sq. Ft.	13

	Structural repair of Concrete (Depth equal to or less than 5")	N.
± 5'	Epoxy Crack Injection (Crack widths shown are approx. ${}^{l}_{6}{}^{n}$ to ${}^{l}_{8}{}^{n}$ in width)	
H.L. —	Hairline Crack (not to be sealed)	

REVISIONS
NAME DATE

NORTH ABUTMENT

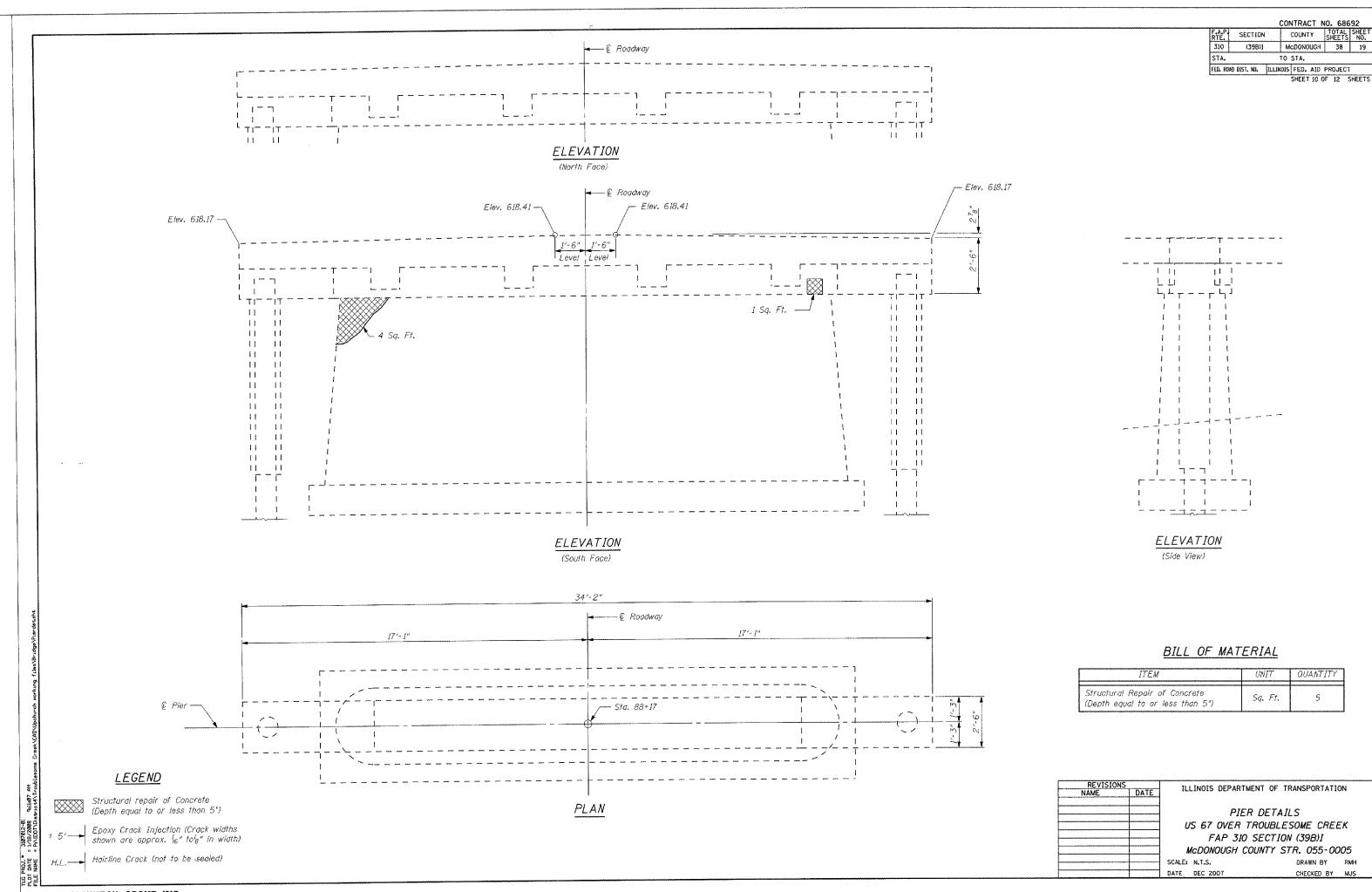
US 67 OVER TROUBLESOME CREEK

FAP 310 SECTION (39B)I

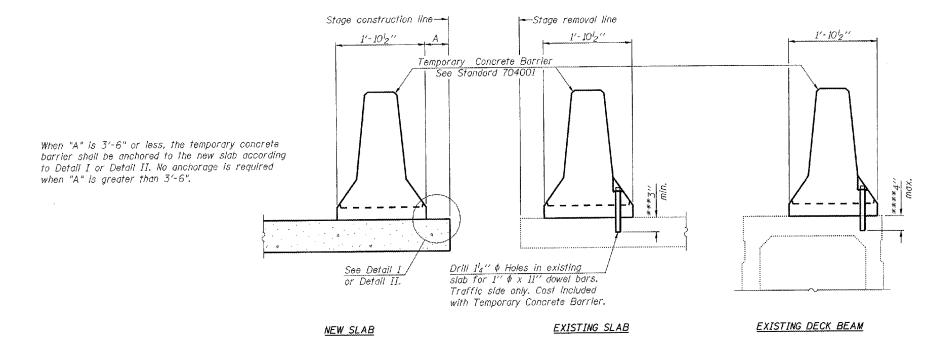
McDONOUGH COUNTY STR. 055-0005

SCALE: DRAWN BY RMH

DATE DEC 2007 CHECKED BY MJS



SHEET 11 OF 12 SHEETS



NOTES

Detail I - With Bar Splicer or Couplers:

Connect one (1) I'x7"x10" steel £ to the top layer of couplers with 2-58" \$\phi\$ bolts screwed to coupler at approximate £ of each barrier panel.

Detail II - With Extended Reinforcement Bars:

Connect one (I) !''x7''x10'' steel £ to the concrete stab or concrete wearing surface with 2-5g''\(\phi\)

Expansion Anchors or cast in place inserts spaced between the top layer of reinforcement at approximate & of each barrier panel.

Cost of anchorage is included with Temporary Concrete Barrier.

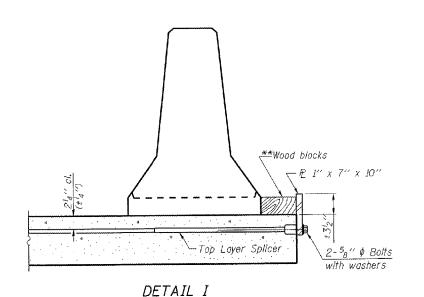
The 1" x 7" x 10" plate shall not be removed until stage II construction forms and all reinforcement bars are in place and the concrete is ready to be placed.

SECTIONS THRU SLAB OR DECK BEAM

***Dimension shown is minimum required embedment into concrete.

If hot-mix asphalt wearing surface is present, minimum embedment shall be in addition to wearing surface depth.

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



#5 bars

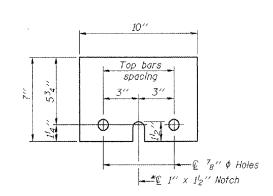
#5 bars

#5 bars

#5 bars

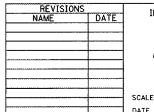
2-5₈" \$ Expansion Anchors or cast in place inserts with a certified min. proof load of 5,000 Lbs.

**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.



STEEL RETAINER P 1" x 7" x 10"

* Required only with Detail II

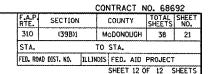


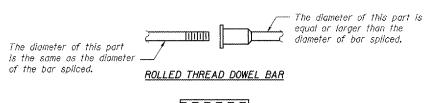
ILLINOIS DEPARTMENT OF TRANSPORTATION
TEMPORARY CONCRETE BARRIER
FOR STAGE CONSTRUCTION
US 67 OVER TROUBLESOME CREEK
FAP 310 SECTION (39B)I
MCDONOUGH COUNTY STR. 055-0005

McDONOUGH COUNTY STR. 055-0005
SCALE: N.T.S. DRAWN BY GEW

DATE DEC 2007

DRAWN BY GEW
CHECKED BY MJS

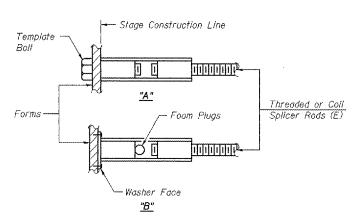




** ONE PIECE -Wire Connector மும்ம WWUWELDED SECTIONS

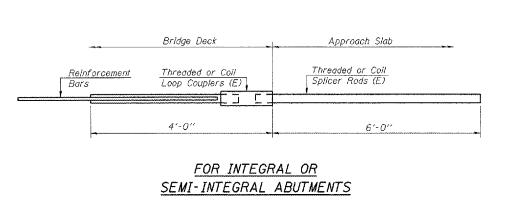
BAR SPLICER ASSEMBLY ALTERNATIVES

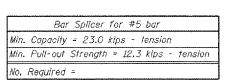
** Heavy Hex Nuts conforming to ASTM A 563, Grade C, D or DH may be used.

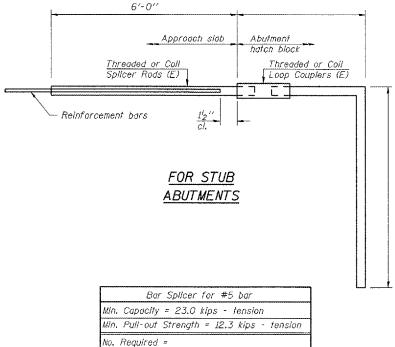


INSTALLATION AND SETTING METHODS

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







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:

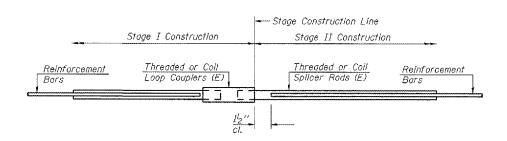
Minimum Capacity (Tension in kips) = $1.25 \times fy \times A_t$

Minimum *Pull-out Strength = 0.66 x fy x A₁

Where fy = Yield strength of lapped reinforcement bars in ksi.

 A_t = Tensile stress area of lapped reinforcement bars. * = 28 day concrete

	BAR SPLIC	ER ASSEMBLI	ES
		Strengt	h Requirements
Bar Size to be Spliced	Splicer Rod or Dowel Bar Length		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



STANDARD

Bar Size	No. Assemblies Required	Location Concrete	
#4	117	Wearing Surface	

REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTAT	LON
NAME	DATE	TELINOIS DEL ARTIMENT OF TRANSFORTAT	LUN
		BAR SPLICER ASSEMBLY DETA	ILS
	1	US 67 OVER TROUBLESOME CRE	ΈK
		FAP 310 SECTION (39B)I	
	t	7 AT 310 SECTION 133D/1	
		McDONOUGH COUNTY STR. 055-0	005
	-	SCALE: N.T.S. DRAWN BY	GEW
		DATE DEC 2007 CHECKED BY	MJS

THE UPCHURCH GROUP, INC.

CONTRACT NO. 68692 RTE. SECTION COUNTY TOTAL SHEETS NO. 310 (398)1 McDONOUGH 38 22 STA. TO STA. TOP OF CONC WEARING SURFACE TOP OF EX PAVEMENT FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT 1" MIN -EX HMA SURFACE, 1 1/2" BUTT JOINT PAVEMENT REMOVAL -EX HMA BINDER, 3/4 HMA SURFACE REMOVAL BUTT JOINT EX PPC PAVEMENT 1 1/2" SAW CUT EXISTING APPROACH SLAB EXISTING P.P.C. DECK BEAM - LEVELING BINDER* BACK OF ABUT -**BUTT JOINT DETAIL** STA. 85+20 TO STA. 85+50 TOP OF EX PAVEMENT TOP OF CONC WEARING SURFACE MIN - EX HMA SURFACE, 1 1/2" BUTT JOINT --- PAVEMENT REMOVAL _EX HMA BINDER, ¾" HMA SURFACE REMOVAL BUTT JOINT EXISTING P.P.C. DECK BEAM-EXISTING APPROACH SLAB 1 1/2" SAW CUT - LEVELING BINDER * EX PPC PAVEMENT - BACK OF ABUT LEVELING BINDER PROFILE WILL BE CONTROLLED BY STRINGLINES **BUTT JOINT DETAIL** STA. 91+10 TO STA. 91+40 PR CONC WEARING SURFACE 10'-0" TEMPORARY HOT MIX ASPHALT RAMP CONSTRUCTED IN ACCORDANCE WITH ARTICLES 406.08 - 406.14 5'-0" @ BUTT JT PR PCC BASE COURSE ±3" ---PR BRIDGE DECK BEAMS EX PAVEMENT -TEMPORARY RAMP DETAIL STA. 85+20 TO STA. 85+25 STA. 87+49 TO STA. 87+59 STA. 88+75 TO STA. 88+85 STA. 91+35 TO STA. 91+40 ILLINOIS DEPARTMENT OF TRANSPORTATION DATE ROADWAY DETAILS US 67 OVER TROUBLESOME CREEK FAP 310 SECTION (39B)I McDONOUGH COUNTY SCALE: VERT. N' HORIZ. DATE DEC 2007

NTS

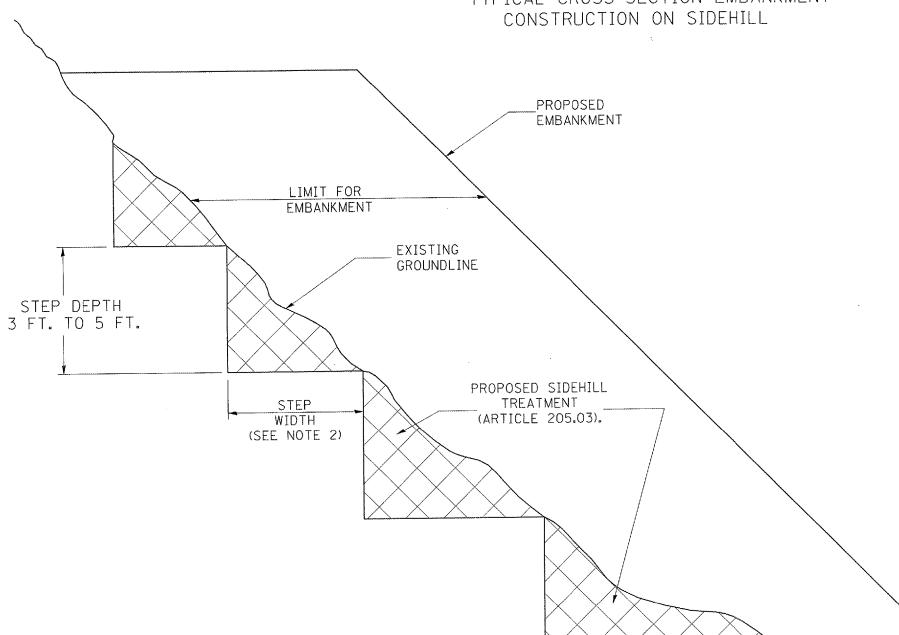
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THE UPCHURCH GROUP, INC.

COUNTY TOTAL SHEET NO. F.A. . RTE. 310 (39-B)1 McD0N0UGH 38 23 STA. TO STA. FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT

SLOPE STEPS DETAIL

TYPICAL CROSS-SECTION EMBANKMENT



GENERAL NOTES:

1. Slope Steps will be required for all 12(300) minimum thickness "silver fills" and on a fills with a height of 10'(3.0m).

RENUM. L-5.03. NEW REVISION BOX, REVISED TITLE BOX. REVISED GENERAL NOTES.

10-16-06 REVISED TO 2007 SPEC.

- 2. The Step width shall be twice the Step depth but not less than 6 feet.
- 3. Refer to Article 205.03 for Embankment to be constructed on Hillside or Slopes, or if existing Embankments are to be widened.

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

ILLINOIS DEPARTMENT OF TRANSPORTATION DISTRICT CADD STANDARD

> SLOPE STEPS DETAIL

CADD STD. NO. 205001-D4 SCALE: NOT DRAWN TO SCALE

DRAWN BY CADD CHECKED BY

REPLACEMENT MATERIAL:

DESIGNER NOTE:

1. EACH PROJECT SHOULD BE REVIEWED INDEPENDENTLY FOR TREATMENT REQUIRED.

2. REFER TO THIS DETAIL WITH NOTE ON APPLICABLE TYPICAL SECTIONS.

STANDARD EMBANKMENT (IN ACCORDANCE WITH

205 OF THE STANDARD SPECIFACATION).

205001-D4

RTE. SECTION 310 (39-B)I McDONDUGHI STA. TO STA. FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT

Pay limits for HOT MIX ASPHALT SURFACE REMOVAL Pay limits for BUTT JOINT (Cold Milling) Length: See table A, Special Note (1) $1\frac{1}{2}$ (38) Hot mix asphalt surf. cse. -Prop. overlay thickness: see plans $1\frac{1}{2}$ (38) deep Saw cut (typ.) Permanent taper see table A, Prop. hot mix asphalt surf. removal Special Note (2) (cold milling) see plans Exist. overlay (typ.) -Removal limits Leveling binder and/or binder ase. Exist. pav't. or when applicable (see plans) base cse. (typ.)

CASE 1: WITH HOT MIX ASPHALT SURFACE REMOVAL (COLD MILLING)

DESIGNER NOTES:

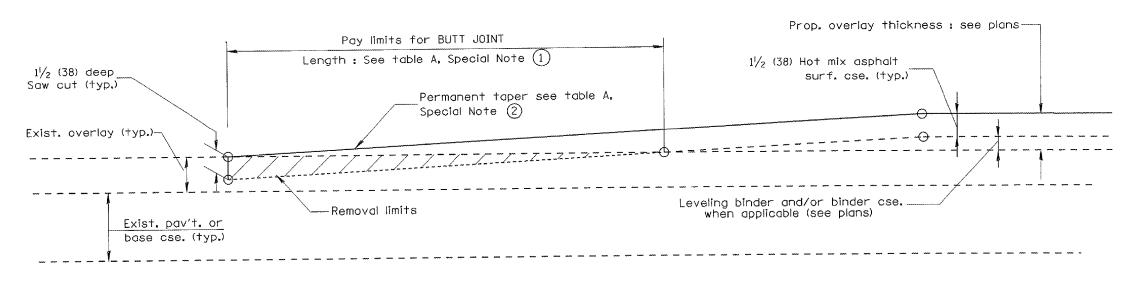
1. Include District Special Provision for Butt Joints & for Hot Mix Asphalt Removal (Cold
2. The butt joints pay item includes the saw cut & temporary ramp. Payment for the applies whether or not the project features Hot Mix Asphalt Removal (Cold Milling).

TABLE A (LENGTHS AND TAPER RATES)

SPECIAL NOTE NUMBER	ELEMENT	MAINLINE INTERSTATES & 4-LANE EXPRESSWAYS	ALL OTHERS
1	LENGTH OF BUTT JOINT	60′(18.0 m)	30′(9 . 0 m)
2	PERMANENT TAPER RATE	1:480	1:240
3	TEMPORARY RAMP TAPER RATE	1:80	1:40
4	TEMPORARY RAMP LENGTH	10′(3 . 0 m)	5′(1 . 5 m)
(5)	LENGTH OF BUTT JOINT	10′(3.0 m)	10′(3.0 m)

GENERAL NOTES

- 1. The work shall be done in accordance with Article 406.08 and the Special Provision for Butt Joints.
- 2. The pavement surface to be removed may be either bituminous or P.C. concrete. The work shall be performed in accordance with Article 440.04 and the Special Provisions for Butt Joints.
- 3. The saw cut joints shall be primed just prior to the placing of bituminous material. The work will be in accordance with the applicable portions of Article 406.05.



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

ILLINOIS DEPARTMENT OF TRANSPORTATION DISTRICT CADD STANDARD

BUTT JOINTS CADD STD NO. 406101-D4 SHEET 1 OF SCALE: NOT DRAWN TO SCALE DRAWN BY CADD

DATE

406101-D4 (1)

CASE 2 : NO HOT MIX ASHALT SURFACE REMOVAL (COLD MILLING)

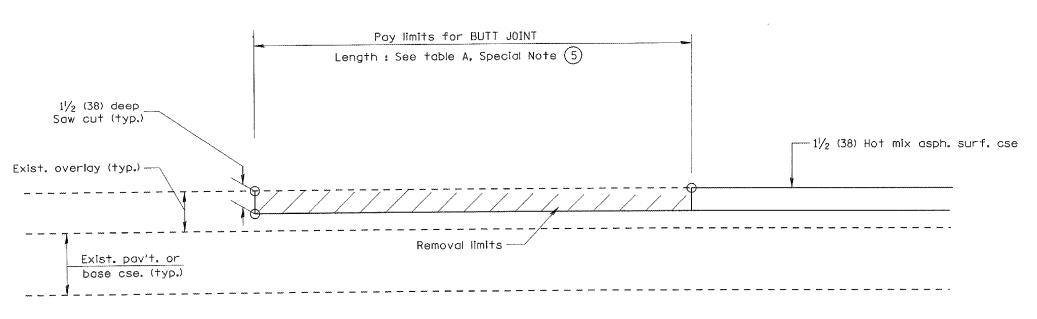
F.A. RTE. 310 COUNTY McDONOUGHI 38 25 Pay limits for HOT MIX ASPHALT SURFACE REMOVAL Pay limits for BUTT JOINT STA. TO STA. (Cold Milling) Length: See table A, Special Note (1) FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT $1\frac{1}{2}$ (38) Bit. conc. surf. cse. -Prop. overlay thickness : see plans $1\frac{1}{2}$ (38) deep Saw cut (typ.) Prop. hot mix asphalt surf. removal Exist. bit. taper see table A, (cold milling) thickness: Special Note (2) see plans Exist. overlay (typ.) -Removal limits Leveling binder and/or binder cse. when applicable (see plans) Exist. pav't. or base cse. (typ.) CASE 3: WITH HOT MIX ASPHALT SURFACE REMOVAL (COLD MILLING) TIE-IN TO EXISTING BITUMINOUS TAPER Prop. overlay thickness: see plans-Pay limits for BUTT JOINT Length: See table A, Special Note (1) $1\frac{1}{2}$ (38) Hot mix asphalt surf. cse. - $1\frac{1}{2}$ (38) deep Saw cut (typ.) Exist. bit. taper see table A, Special Note (2) Exist. overlay (typ.) Leveling binder and/or binder ase. Removal limits when applicable (see plans) Exist. pav't. or base cse. (typ.) CASE 4 : NO HOT MIX ASPHALT SURFACE REMOVAL (COLD MILLING) TIE-IN TO EXISTING BITUMINOUS TAPER Temporary ramp length = see table A, Special Note (3) $1\frac{1}{2}$ (38) deep Saw cut (typ.) Temporary ramp, see table A, Special Note (4) Exist. overlay (typ.) --Milled surface All dimensions are in inches (millimeters) unless otherwise noted. ILLINOIS DEPARTMENT OF TRANSPORTATION DISTRICT CADD STANDARD Exist. pav't. or BUTT JOINTS CADD STD NO. 406101-D4 SHEET 2 OF 3 DETAIL TEMPORARY RAMP SCALE: NOT DRAWN TO SCALE

406101-D4 (2)

| CONTRACT NO. 6865 | RTE. | SECTION | COUNTY | TOTAL SHEETS NO. | 310 | (39-B)I | McDONOUGHI | 38 | 26

STA. TO STA.

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



CASE 5: WITH HOT MIX ASPHALT SURFACE REMOVAL (COLD MILLING)
TIE-IN TO EXISTING BITUMINOUS TAPER

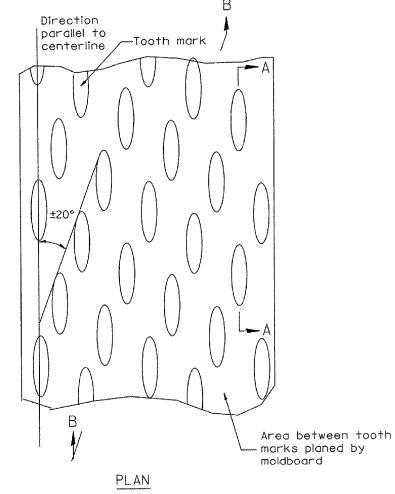
All dimensions are in inches (millimeters) unless otherwise noted.

ILLINOIS DEPARTMENT OF TRANSPORTATION
DISTRICT CADD STANDARD

BUTT JOINTS

CADD STD NO. 406101-D4 SHEET 3 OF 3
SCALE; NOT DRAWN TO SCALE

406101-D4 (3



±0.02(0.5)

SECTION A-A

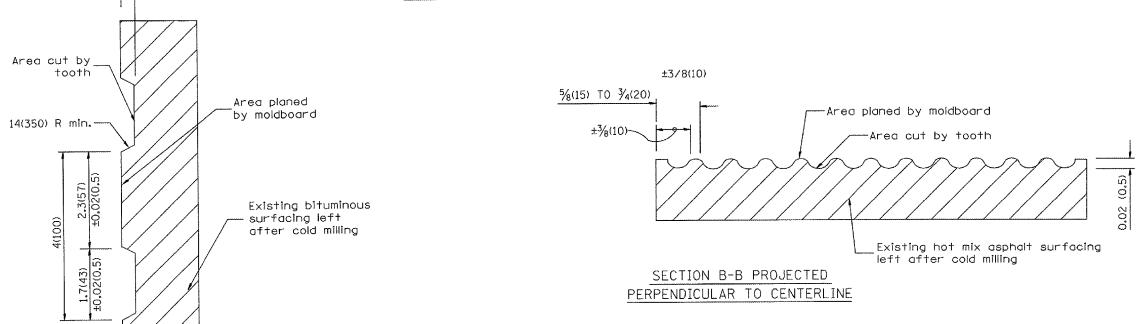
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PROVISION,

DESIGNER NOTE 1. INCLUDE DISTRICT SPECIAL

General notes:

- Coldmilling shall consist of two processes: Cutting with carbide teeth mounted on a rotating drum, and planing with a moldboard mounted immediately behind the cutting drum.
- 2. Other similar patterns will be acceptable if they consist of a smooth, flat, planed surface interspersed with a pattern of discontinuous longitudinal striations.



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

			ILLINOIS DEPARTMENT OF TRANSPORTATION				
			DISTRICT CADD STANDARD				
DATE	REVISIONS	BY	HOT MIX ASPHALT				
1- 1-97	RENUM. C-104.01, NEW REVISION BOX	T. P.					
4-20-98	REMOVED MILLING DETAIL FROM STD.	J. A.	SURFACE REMOVAL				
9-08-98	CORRECT NOTE LEADER PLACEMENT	R. W.	(COLD MILLING)				
10-16-06	REVISED TO 2007 SPEC.	M.A.	(COLD MILLING)				
			CADD STD NO. 440001-D4				
			SCALE: NOT DRAWN TO SCALE DRAWN BY CADD				
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	F.A RTE.	SECTION		COUNTY		TOTAL	SHEET S NO.	
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GENERAL NOTES: EROSION CONTROL CURB

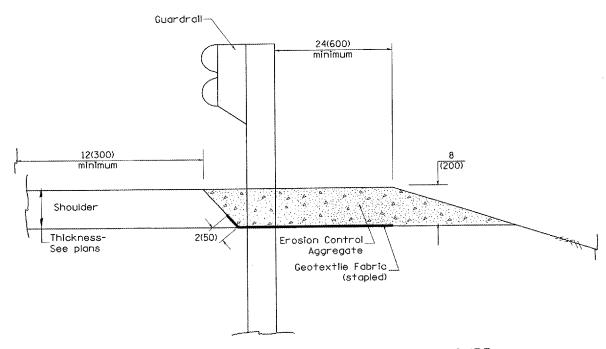
- 1. This work shall consist of grading as needed, installing hardware and treated timber boards, furnishing and placing mastic material and incidental bituminous surfacing in front of Steel Plate Beam Guardrail in accordance with Plan Details.
- 2. Timber shall be treated in accordance with Article 1007.12. All preservatives specified in the article will be allowed. Waterborne preservatives "asa" and "cca" shall have a minimum retention of 0.40 lbs./cu. ft. (6.4 kg/m³)

GENERAL NOTES: GUARDRAIL AGGREGATE EROSION CONTROL

- 1. This work shall consist of grading as needed, furnishing and installing geotextile fabric and staples, and furnishing, placing and shaping crushed aggregate around and behind Steel Plate Beam Guardrail posts in accordance with Plan Details.
- 2. Before placing the aggregate and the Geotextile Fabric, weeds and grass shall be removed from the area to be covered.
- 3. After the area has been prepared, and in a dry condition, the Geotextile fabric shall be placed with a 12(300) minimum overlap. A knife cut for guardrail post installation is necessary.
- 4. The aggregate shall be deposited, compacted and shaped by either mechanical or hand methods, in a manner reasonably true to line and grade.
- 5. The Contractor shall have the option of placing the guardrail before or after the Geotextile Fabric and Aggregate are in place. If the guardrail is placed after the Geotextile Fabric and Aggregate, then any voids must be filled and the aggregate returned to line and grade.
- 6. Materials shall meet the following requirements:
- A. The crushed aggregate shall be CA1 gradation in accordance with Article 1004,01(c) of the Standard Specifications.
- B. The Geotextile Fabric shall be nonwoven fabric in accordance with Article 1080,02 of the Standard Specifications.

Guardrail-24(600) minimum Treated Timber Curb 24(600) lap into Bridge Approach Curb 7½ (190) 1/2(M12) galvanized U-bolts with nuts and washers Maximum Spacing 12'-6" (3.8m) (200) (100) Bituminous Shoulder 2(50) Thickness-Erosion Control_ See plans Aggregate Geotextile Fabric_ Incidental Bituminous (stapled) Surfacing

TYPICAL SECTION WITH EROSION CONTROL CURB



TYPICAL SECTION WITHOUT EROSION CONTROL CURB

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

ILLINOIS DEPARTMENT OF TRANSPORTATION DISTRICT CADD STANDARD

GUARDRAIL EROSION CONTROL TREATMENTS

> CADD STD NO. 630101-D4(1) SCALE: NOT DRAWN TO SCALE

SHEET 1 OF 2 DRAWN BY CADD CHECKED BY

630101-D4(1)

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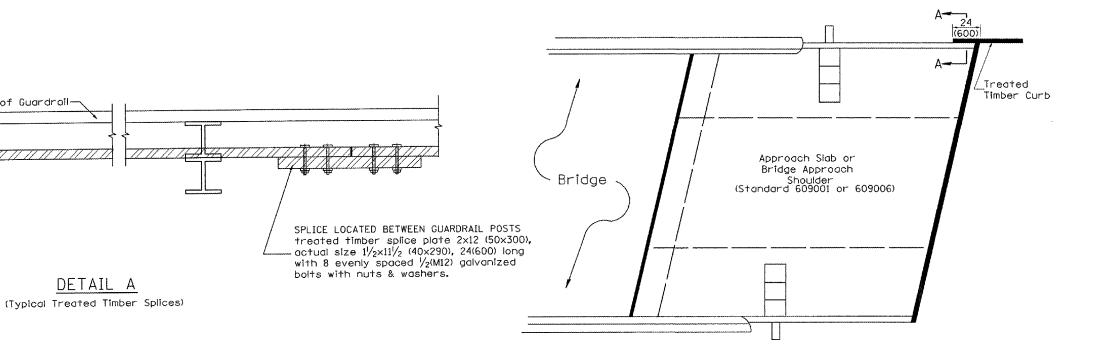
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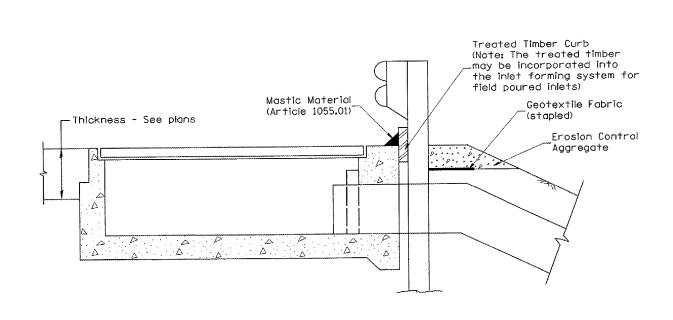
45'5'4' G

CONTRACT NO. 6869 TOTAL SHEE SHEETS NO. SECTION COUNTY

F.A. . RTE. 310 (39-B)I McDONOUGH 38 29 STA. TO STA. FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT



PLAN VIEW APPROACH SLAB OR BRIDGE APPROACH SHOULDER (STANDARD 609001 or 609006)



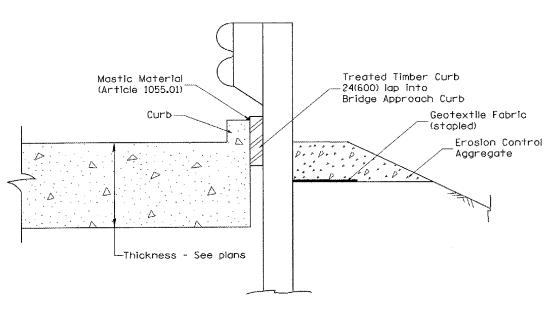
TYPICAL SECTION WITH EROSION CONTROL CURB

AT INLETS TYPE E & F (STANDARD 610001)

Face of Guardrall-

Treated Timber Curb-

SPLICE LOCATED AT GUARDRAIL POST 1/2(M12) galvanized U-bolt with nut & washer



SECTION A-A TYPICAL SECTION WITH EROSION CONTROL CURB AT BRIDGE APPROACH CURB (STANDARD 609001 OR 609006)

All dimensions are in inches (millimeters) unless otherwise noted. ILLINOIS DEPARTMENT OF TRANSPORTATION

DISTRICT CADD STANDARD GUARDRAIL EROSION

CONTROL TREATMENTS SHEET 2 OF 2

CADD STD NO. 630101-D4(2) SCALE: NOT DRAWN TO SCALE

CHECKED BY

DRAWN BY CADD

F.A RTE.	SECTION	COUNTY		TOTAL SHEETS	SHEET NO.
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1

Spacing 80 ft. (24 m) max. for first 400 ft. (122 m) or curve spacing shown in Standard 635001, whichever is less (min. 4 reflectors regardless of length).

> Greater than 10' (3m)

② After 400 ft.(122 m), transition to normal delineator spacing shown in Standard 635001, and continue as required.

-Edge of shoulder

Bidirectional silver/silver should be used in lieu of monodirectional silver on both sides of two-lane bridges where the bridge pavement is less than 24 (610) wider than the pavement approaching the bridge.

TWO-WAY TRAFFIC

ONE-WAY TRAFFIC

Begin reflectors at 10' (3m) point

NOTE: Omit terminal marker when terminal over 10' (3m) from edge of paved shoulder or break point of unpaved shoulder, or

when terminal buried in backslope.

[Terminal over 10' (3m) from edge of shoulder]

Traffic Barrier Terminal Type(*) and/or Turned-Down Terminal

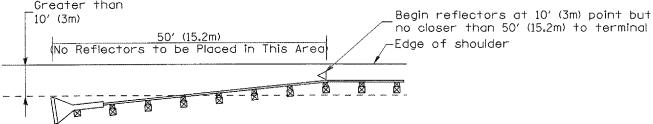
GUARDRAIL / BARRIER WALL / BRIDGE RAIL REFLECTORS

LEGEND

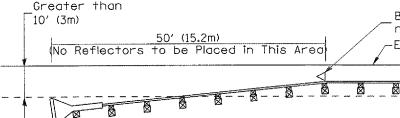
✓ Monodirectional silver

Monodirectional amber

Terminal Marker - Black/Yellow Left or Right as appropriate



NOTE: Omit terminal marker when terminal over (10') from edge of paved shoulder or break point of unpaved shoulder.



Traffic Barrier Terminal Type 1 (Special) [Terminal over 10' (3m) from edge of shoulder]

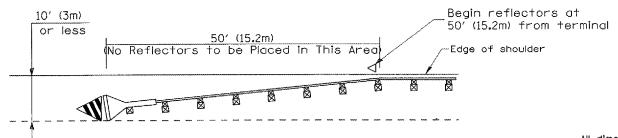


Turned-Down Terminal

10' (3m) or less 5 - 10' Edge of shoulder (1.5 - 3 m) Traffic Barrier Terminal Type(*) and/or

*See Plans for Type

[Terminal over 10' (3m) or less from edge of shoulder] *See Plans for Type



Traffic Barrier Terminal Type 1(Specia) [Terminal 10' (3m) or less from edge of shoulder]

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

ILLINOIS DEPARTMENT OF TRANSPORTATION DISTRICT CADD STANDARD GUARDRAIL AND RENUM. E-10.02, NEW REVISION BOX T.P.
CORRECT STD. SPEC. # J.A.

BARRIER WALL DELINEATION

CADD STD. NO. 635101-D4 SCALE: NOT DRAWN TO SCALE

SHEET 1 OF 3 DRAWN BY CADD CHECKED BY

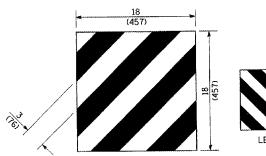
TERMINAL MARKER PLACEMENT

INCLUDE APPROPRIATE SPECIAL PROVISIONS FOR "GUARD RAIL DELINEATION POLICY: 1. FROM INTERIM SPECIAL PROVISIONS 94-74; "GUARDRAIL AND BARRIER WALL DELINEATION IF POST MOUNT TERMINAL MARKER IS USED, INCLUDE STATE STD, 720011. NO TE: DESIGNER | 1. INCLUDI FROM 2. IF POS

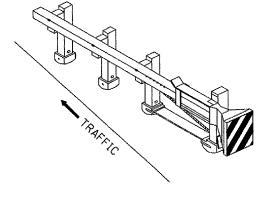
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635101-D4 (1)

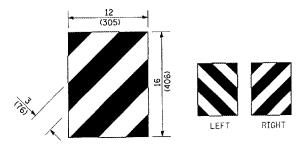
 F.A RTE.	SECTION	(COUNT	′	TOTAL SHEETS	SHEET NO.
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FED. RO	AD DIST. NO.	ILLINOIS	FED.	AID	PROJECT	



For Traffic Barrier Terminal Type 1 (Special)



Standard Treatment - Direct Applied Sheeting Traffic Barrier Terminal Type 1 (Special)



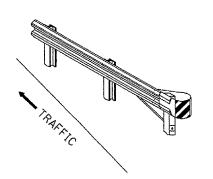
For Traffic Barrier Terminal Type (*) and Post Mount * See Plans for Type

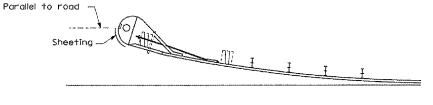
TERMINAL MARKER DETAILS

Color: Black / Yellow reflectorized

OM - 1100 (L or R) Direct applied reflective sheeting

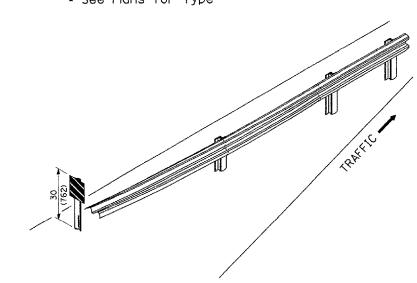
OM - I200 (L or R) Post mounted





Sheeting Position for Traffic Barrier Terminal Type (*) * See Plans for Type

Standard Treatment - Direct Applied Sheeting Traffic Barrier Terminal Type (*) * See Plans for Type



ALTERNATE TREATMENT - POST MOUNTED (For turned-down terminal where sheeting cannot be direct applied)

TERMINAL MARKER TREATMENTS

GENERAL NOTES

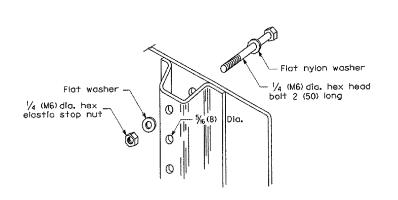
All dimensions are in inches (millimeters) unless otherwise noted.

ILLINOIS DEPARTMENT OF TRANSPORTATION DISTRICT CADD STANDARD

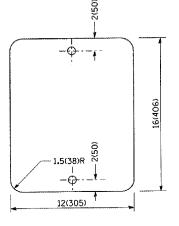
GUARDRAIL AND BARRIER WALL DELINEATION

CADD STD, NO. 635101-D4 SCALE: NOT DRAWN TO SCALE

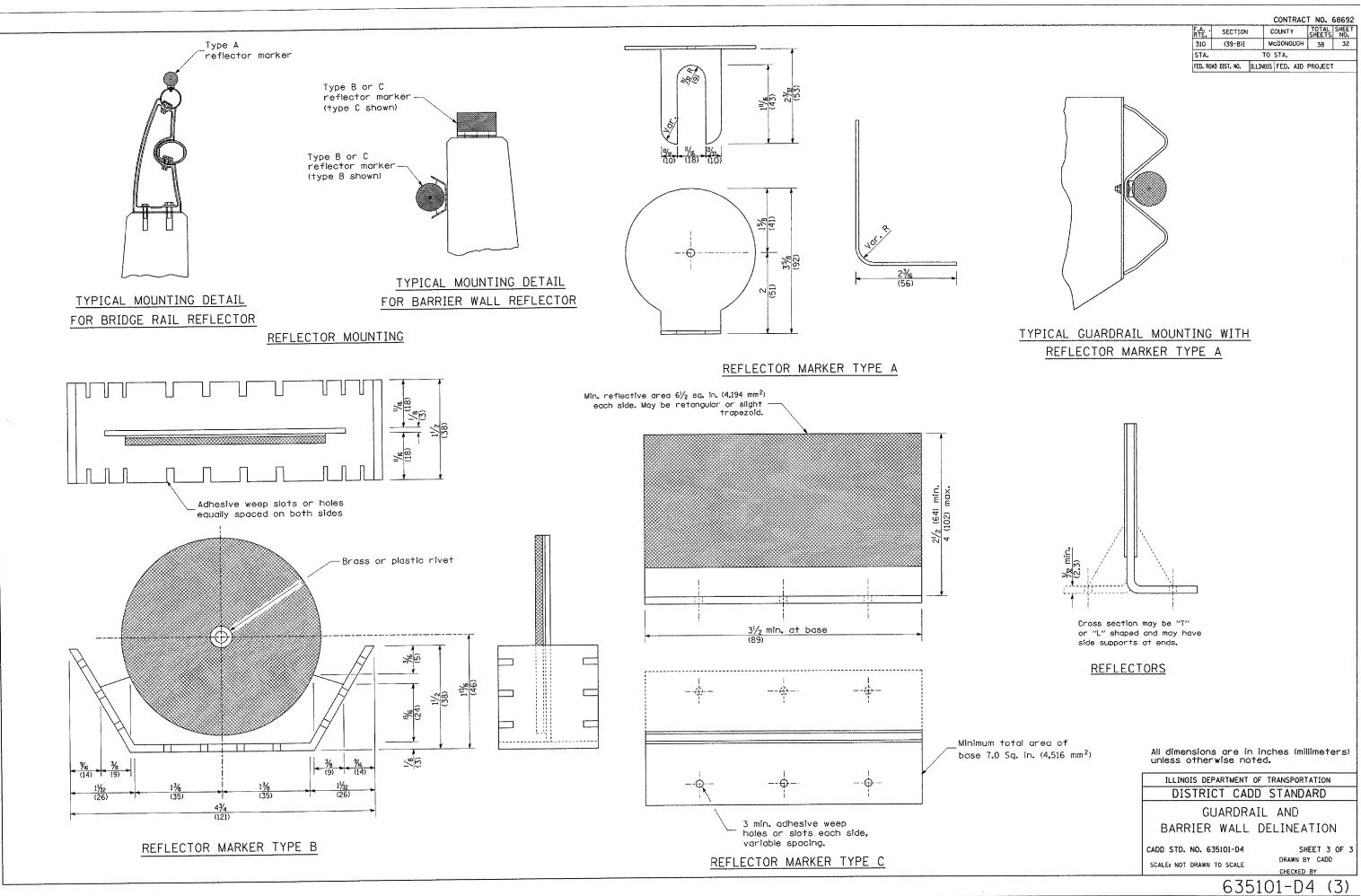
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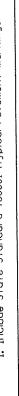


DETAIL OF MOUNTING TERMINAL MARKER TO POST

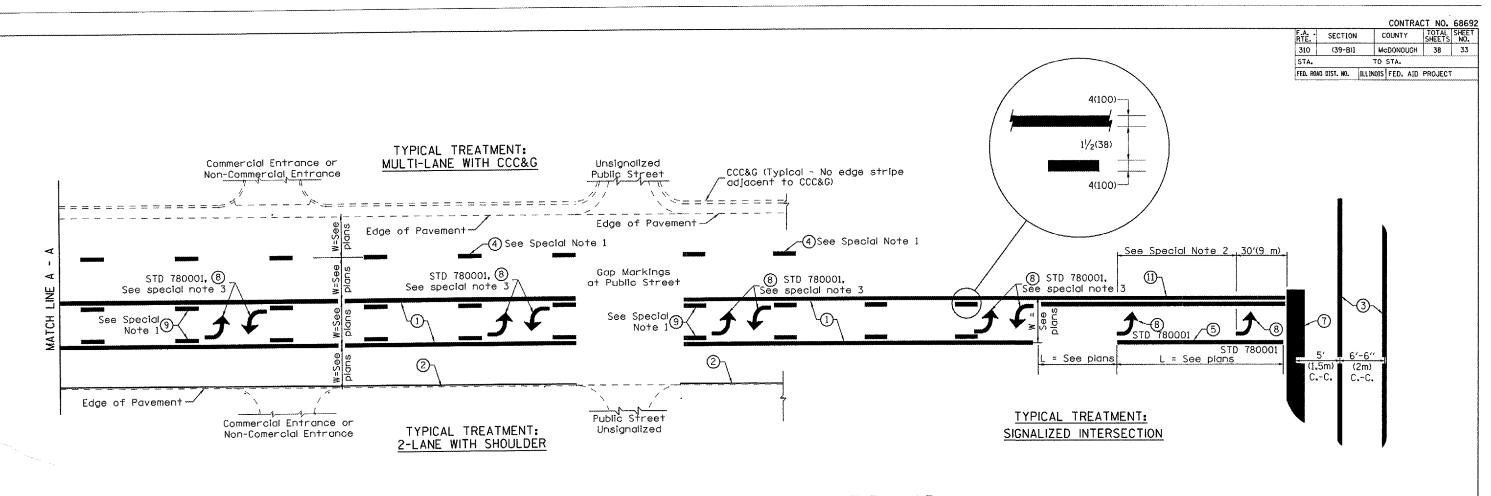


STANDARD TERMINAL MARKER









FLUSH PAVED MEDIAN: TWO-WAY LEFT TURN LANE WITH ONE-WAY LEFT TURN LANE AT SIGNALIZED INTERSECTION

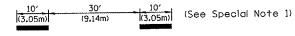
TYPICAL PAVEMENT MARKING LEGEND

(Note: This is a District Standard Legend. Some elements may not apply to specific project.)

- 1 4(100) Solid (Yellow)
- 2 4(100) Solid (White)
- 2-6(150) Crosswalk @ 6'-6" (2m)min C.-C. (White)
 2-8(200) Crosswalk @ 6'-6" (2m)min C.-C. (White) (When traffic signals are present.)
- 4 6(150) Skip-Dash (White)
- 10' 30' 10' (See Special Note 1)
- (5) 8(200) Solld (White)
- 6) 12(300) Diagonal (White) (Item (6) is shown on Std. 780001)
- (7) 24(600) Stop Bar (White)
- 8 Letters & Arrows

(10m) (See Std. 780001 and Special Notes 2 & 3)

9 4(100) Skip-Dash (Yellow)



) 12(300) Diagonal (Yellow) (See Table A)

(1) 4(100) Double Soild (Yellow)

11(280) C.-C. See Table A

SPECIAL NOTES

- Skip-Dash markings will be centered between both ends of city blocks and shall be placed in alignment transversly across the pavement.
- The following shall apply to arrows located in one-way left turn lanes:
- A. A minimum of two (2) arrows is required.
- B. The maximum spacing between arrows is 80' (24 m).
- C. Arrows shall be evenly spaced if three (3) or more are required.
- The following shall apply to arrow pairs located in two-way left turn lanes:
 - A. A minimum of two (2) arrow pairs is required.
 B. The maximum spacing between arrow pairs
 - is 200' (61 m).C. Arrow pairs shall be evenly spaced if three (3) or more are required.
 - D. The spacing between Bi Directional Left Turn Arrows is 33' (10 m).

GENERAL NOTES

- Refer to State Standard 780001 for additional Pavement Markings including letters & arrows.
- See Plans for Pavement Markings adjacent to curbed islands and medians, and through lane reductions.

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

ILLINOIS DEPARTMENT OF TRANSPORTATION

DISTRICT CADD STANDARD

SIONS
NEW REVISION BOX T.P.

TYPICAL PAVEMENT

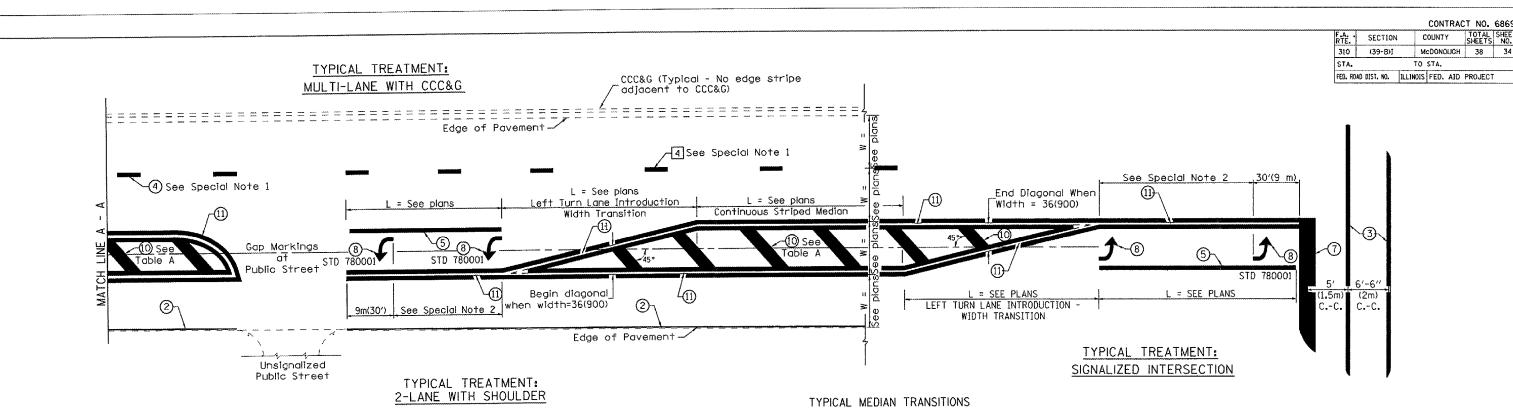
BI DIRECTIONAL DIMENSION J.A.
SSWALK DIMS, WITH T.S. M.A.
D TO 2007 SPEC. M.A.
CADD STANDARD 780001-D4

PRANKEY CADD

SCALE: NOT DRAWN TO SCALE

DRAWN BY CADD
CHECKED BY

780001-D4 (1)

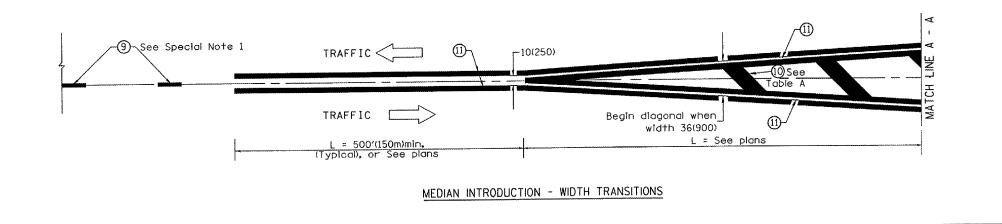


FLUSH PAVED MEDIAN: RESTRICTED LEFT TURN LANE

TABLE A

RECOMMENDED SPACING BETWEEN DIAGONAL LINES

SPEED LIMIT RANGE	CONTINUOUS	INTERSECTION CHANNELIZATION (Includes Width Transitions for Median and Left Turn Lane Introductions)
Less Than 30 mph (50 km/h)	50' (15m)	15′ (5m)
30 - 45 mph (50 - 70 km/h)	75' (23m)	20' (6m)
Over 45 mph (70 km/h)	150' (46m)	30' (9m)



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

ILLINOIS DEPARTMENT OF TRANSPORTATION
DISTRICT CADD STANDARD

TYPICAL PAVEMENT MARKINGS

CADD STANDARD 780001-D4 SCALE: NOT DRAWN TO SCALE

DRAWN BY CADD CHECKED BY

SHEET 2 OF 2

780001-D4 (2)

