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- PIPE DRAIN DETAILS
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- STAGING & TRAFFIC CONTROL DETAILS STAGE II
- PAVEMENT MARKING DETAILS

STANDARDS

000001-04 - STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS

001001 AREAS OF REINFORCEMENT BARS

001006 DECIMAL OF AN INCH AND OF A FOOT 420001-06 PAVEMENT JOINTS

630001-05 STEEL PLATE BEAM GUARDRAIL

631031-05 TRAFFIC BARRIER TERMINAL, TYPE 6

701101-01 - OFF-ROAD OPERATIONS MULTILANE, 4.5 m (15') TO 600 mm (24") FROM

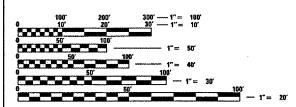
OFF-ROAD OPERATIONS, MULTILANE, MORE THAN 4.5 m (15') AWAY 701106-01

701400-02 "APPROACH TO LANE CLOSURE, FREEWAY/EXPRESSWAY

702001-05 TRAFFIC CONTROL DEVICES

704001-02 TEMPORARY CONCRETE BARRIER

781001-02 TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS



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.

JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION

1-800-892-0123

DISTRICT 3 NO. (815) 434-6131

PROJECT ENGINEER: TOM HUFNAGEL (815)-434-8418 UNIT CHIEF: RON WOODSHANK (815)-434-8419

CONTRACT NO. 66578

STATE OF ILLINOIS

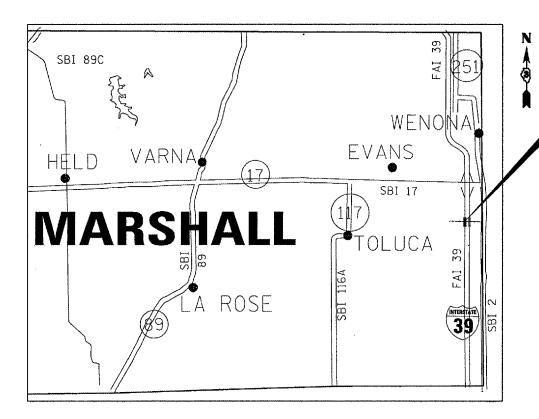
DEPARTMENT OF TRANSPORTATION

DIVISION OF HIGHWAYS

PROPOSED HIGHWAY PLANS

FAI ROUTE 412 (I-39) (SB) SECTION (62-2VB)I

MARSHALL COUNTY C-93-084-05 STRUCTURE & APPROACH SLAB REPAIR



PROJECT LOCATION S.N. 062-0051 (SB) 1.26 MILES SOUTH OF IL ROUTE 17

FAI 412 OVER BNSF RAILROAD

LOCATION OF SECTION INDICATED THUS: -

SECTION COUNTY

ILLINOIS

D-93-002-05

(62-2VB)] MARSHALL 19 1

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

MARSHALL COUNTY SECTION (62-2VB)]

F.A.I. SECTION COUNTY TOTAL SHEE NO. 412 (62-2VB)1 MARSHALL 19 2 FED. ROAD DIST. NO. . ILLINGIS PROJECT

GENERAL NOTES

PLAN DIMENSIONS AND DETAILS RELATIVE TO THE EXISTING ROADWAY AND 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 TO MAKE NECESSARY APPROVED ADJUSTMENTS PRIOR TO CONSTRUCTION OR ORDERING OF MATERIALS. SUCH VARIATIONS SHALL NOT BE CAUSE FOR ADDITIONAL COMPENSATION FOR A CHANGE IN THE SCOPE OF THE WORK, HOWEVER, THE CONTRACTOR WILL BE PAID FOR THE QUANTITY ACTUALLY FURNISHED AT THE UNIT PRICE BID FOR THE WORK.

FOR STABILIZATION. ALL TYPE III BARRICADES SHALL REQUIRE A MINIMUM OF FOUR SAND BAGS PER BARRICADE.

FOR STABILIZATION, ALL TYPE II BARRICADES SHALL REQUIRE A MINIMUM OF TWO SAND BAGS PER BARRICADE.

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 MONUMENTS UNTIL AN AUTHORIZED SURVEYOR OR AGENT HAS WITNESSED OR OTHERWISE REFERENCED THEIR LOCATION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR HAVING AN AUTHORIZED SURVEYOR REESTABLISH ANY SECTION OR SUBSECTION MONUMENTS DESTROYED BY HIS OPERATIONS.

ON EXISTING PAVEMENT WHICH MAY BE SUPERELEVATED. THE NEW CONCRETE PAVEMENT SHALL BE BUILT WITH THE SAME SUPERELEVATION UNLESS NEW SUPERELEVATION RATES ARE GIVEN ON THE PLANS.

ALL ELEVATIONS REFERRING TO U.S.G.S. MEAN SEA LEVEL DATUM.

ABANDONED UNDERGROUND UTILITIES THAT CONFLICT WITH CONSTRUCTION SHALL BE DISPOSED OF OUTSIDE THE LIMITS OF THE 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 OF EARTH EXCAVATION.

Superpave
Stabilized
Sub-base
PG58-22
30%
2.0% e N30
BAM
NON-CLASS I
•

*MATERIAL SHALL BE COMPACTED TO 93 TO 97 PERCENT OF THE MAXIMUM THEORETICAL DENSITY EXCEPT THE THE BOTTOM LIFT SHALL BE COMPACTED TO A MINIMUM OF 91.0 PERCENT. THE MAXIMUM THEORETICAL DENSITY SHALL BE DETERMINED FROM THE MOVING AVERAGE AS SPECIFIED IN THE QC/QA SPECIFICATION.

**IF RAP OPTION IS SELECTED, THE ASPHALT CEMENT GRADE MAY NEED TO BE ADJUSTED. THIS WILL BE DETERMINED BY THE ENGINEER.

> PREPARED BY: OPERATIONS ENGINEER EXAMINED BY: **ENGINEER** DISTRICT STUDIES & PLANS ENGINEER DISTRICT MATERIALS ENGINEER ILLINOIS DEPARTMENT OF TRANSPORTATION GENERAL NOTES FAI 412 (I-39)

> > SCALE: VERT.

SECTION (62-2VB)I STA. 165+90.23

MARSHALL COUNTY

DRAWN BY RLW

SUMMARY OF QUANTITIES

CONSTRUCTION CODE TYPE: SFTY-2A

SFTY-2A

100% STATE

CODE	ITEM		TOTAL
NO.		UNIT	QUANTITY
20200100	EARTH EXCAVATION	CU YD	19
20700400	POROUS GRANULAR EMBANKMENT, SPECIAL	CU YD	16
21001000	GEOTECHNICAL FABRIC FOR GROUND STABILIZATION	SQ YD	175
31100100	SUB-BASE GRANULAR MATERIAL, TYPE A	TON	30
31102900	SUB-BASE GRANULAR MATERIAL (SPECIAL)	CU YD	96
42001300	PROTECTIVE COAT	SQ YD	615
42001400	BRIDGE APPROACH PAVEMENT (SPECIAL)	SQ YD	137
42001420	BRIDGE APPROACH PAVEMENT CONNECTOR (PCC)	SQ YD	479
44000700	APPROACH SLAB REMOVAL	SQ YD	272
44002100	CONTINUOUSLY REINFORCED CONCRETE PAVEMENT REMOVAL	SQ YD	89
44004510	PORTLAND CEMENT CONCRETE SHOULDER REMOVAL	SQ YD	252
48101200	AGGREGATE SHOULDERS, TYPE B	TON	10
50102400	CONCRETE REMOVAL	CU YD	10
50200100	STRUCTURE EXCAVATION	CU YD	16
50300120	PREFORMED JOINT SEAL 21/2"	FOOT	44
50300225	CONCRETE STRUCTURES	CU YD	12
50300300	PROTECTIVE COAT	SQ YD	12
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	1436
51205200	TEMPORARY SHEET PILING	SQ FT	105

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		SCALE:	VERT.
		0470	HURIZ.
			04/20/2000

DEPARTMENT OF TRANSPORTATION MMARY OF QUANTITIES

FAI 412 (I-39)

SECTION (62-2VB)I

STA. 165+90.23

MARSHALL COUNTY

DRAWN BY RLW

SUMMARY	O F	QUANIIIII	ES
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CONSTRUCTION CODE TYPE:

SFTY -2A

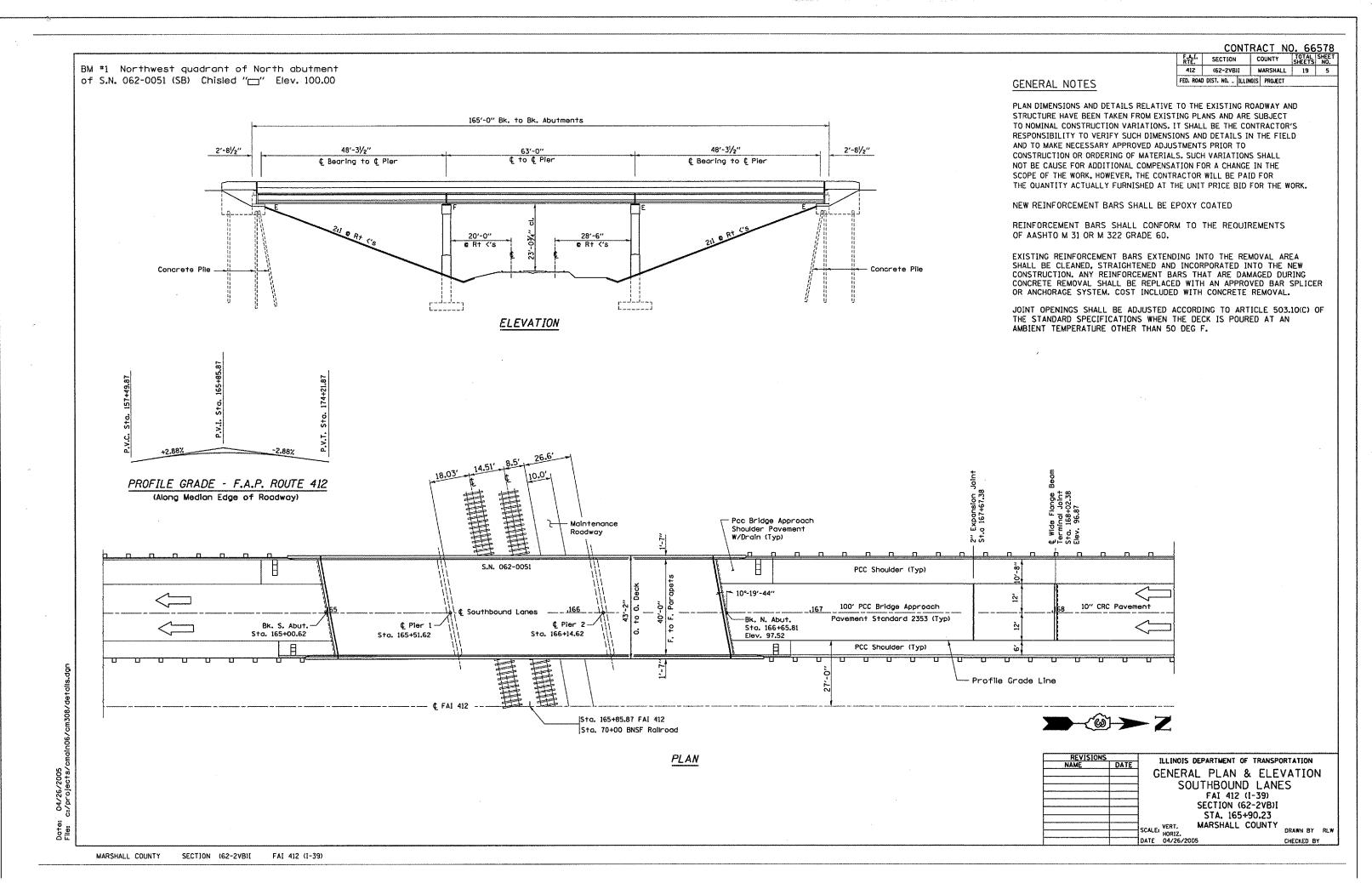
SFTY-ZA

				100% STATE
	CODE	ITEM		TOTAL
	NO.		UNIT	QUANTITY
	60100925	PIPE DRAINS 8"	FOOT	46
	63301100	REMOVE AND RE-ERECT STEEL PLATE BEAM GUARD RAIL, SINGLE RAIL	FOOT	192
	63302700	REMOVE AND RE-ERECT TRAFFIC BARRIER TERMINAL, TYPE 6	EACH	2
	67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	2
	67100100	MOBILIZATION	L SUM	1
	70100305	TRAFFIC CONTROL AND PROTECTION, STANDARD 701400	L SUM	1
	70101605	TRAFFIC CONTROL AND PROTECTION, STANDARD 701402 (SPECIAL)	EACH	1
	70300220	TEMPORARY PAVEMENT MARKING - LINE 4"	FOOT	1878
	70301000	WORK ZONE PAVEMENT MARKING REMOVAL	SQ FT	620
	70400100	TEMPORARY CONCRETE BARRIER	FOOT	560
	70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	546
*	78005110	EPOXY PAVEMENT MARKING - LINE 4"	FOOT	1878
*	78005130	EPOXY PAVEMENT MARKING - LINE 6"	FOOT	250
*	78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	3
	78300100	PAVEMENT MARKING REMOVAL	SQ FT	620
	X3120700	STABILIZED SUB-BASE 4", SUPERPAVE	SQ YD	309
	Z0002600	BAR SPLICERS	EACH	51
₩	Z0030250	IMPACT ATTENUATORS, TEMPORARY (NON- REDIRECTIVE), TEST LEVEL 3	EACH	1
₩	Z0030350	IMPACT ATTENUATORS, RELOCATE (NON- REDIRECTIVE), TEST LEVEL 3	EACH	1

⊕SFTY-3N

* SPECIALTY ITEMS

REVISIO		ILLINOIS DEPARTMENT OF TRANSPORTATION						
NAME	DATE	SUMMARY OF QUANTITIES						
		FAI 412 (I-39) SECTION (62-2VB)I						
		STA. 165+90.23 MARSHALL COUNTY						
		SCALE: HORIZ. DRAWN BY F	a					



CONTRACT NO. 66578 SECTION COUNTY TOTAL SHEET NO. 104'-41/2" Approach Slab Removal 33'-6" 412 (62-2VB)I MARSHALL 19 6 CRC Pavement Removal As measured along West E.O.P FED. ROAD DIST. NO. . ILLINOIS PROJECT ±93'~0" Remove & Re-Erect Traffic Remove & Re-Erect Steel Plate Beam Guardrail, Single Rail Barrier Terminal, Type 6 GENERAL NOTES B ← C Existing reinforcement bars extending into the concrete removal area (abutment), that are to remain, shall be cleaned, straightened and incorporated into the new concrete. If reinforcement bars that are to remain, are damaged during concrete removal operation, or PCC Shoulder Removal the Engineer has determined that they are deteriorated beyond effectiveness, the bars shall be cut off flush with the concrete and v (E) bars shall be drilled and epoxy grouted. The cost of drilling and grouting new bars shall be paid for as specified elsewhere. Existing approach slab seat shall be thoroughly cleaned prior to placement of concrete, and all unsuitable material PCC Approach Pavemen 10" CRC Pavemen Stageapproach slab seat during the concrete placement to insure the seat remain clean and free from all unsuitable Removal Line PCC Shoulder Removal **B** ◆ APPROACH SLAB REMOVAL ±34'-0" ±86'-0" NOTE: Existing shoulder inlets and grates shall remain in place. Remove & Re-Erect Steel Plate Remove & Re-Erect Traffic Barrier Terminal, Type 6 Beam Guardrail, Single Rail CRC PAVEMENT REMOVAL 100'-0" Approach Slab Removal 33'-6" STRUCTURE EXCAVATION CRC Pavement Removal As measured along East E.O.P PLAN EARTH EXCAVATION NORTH APPROACH PAVEMENT PCC SHOULDER REMOVAL 41'-2" 41'-2" **₡** Roadway - Stage Removal Line Roadway 2'-0"-- Stage Removal Line -4" Stabilized -4" Stabilized Sub-Base Sub-Base SECTION C-C SECTION B-B 102'-21/4" 33'-6" measured along (Roadway ILLINOIS DEPARTMENT OF TRANSPORTATION EXISTING APPROACH PAVEMENT 4" Stabilized Sub-base DETAILS - NORTH APPROACH FAI 412 (I-39) SECTION (62-2VB)I ±33'-6" STA. 165+90.23 SECTION A-A SCALE; VERT. MARSHALL COUNTY DATE 04/26/2005 DRAWN BY RLW CHECKED BY

MARSHALL COUNTY

SECTION (62-2VB)I

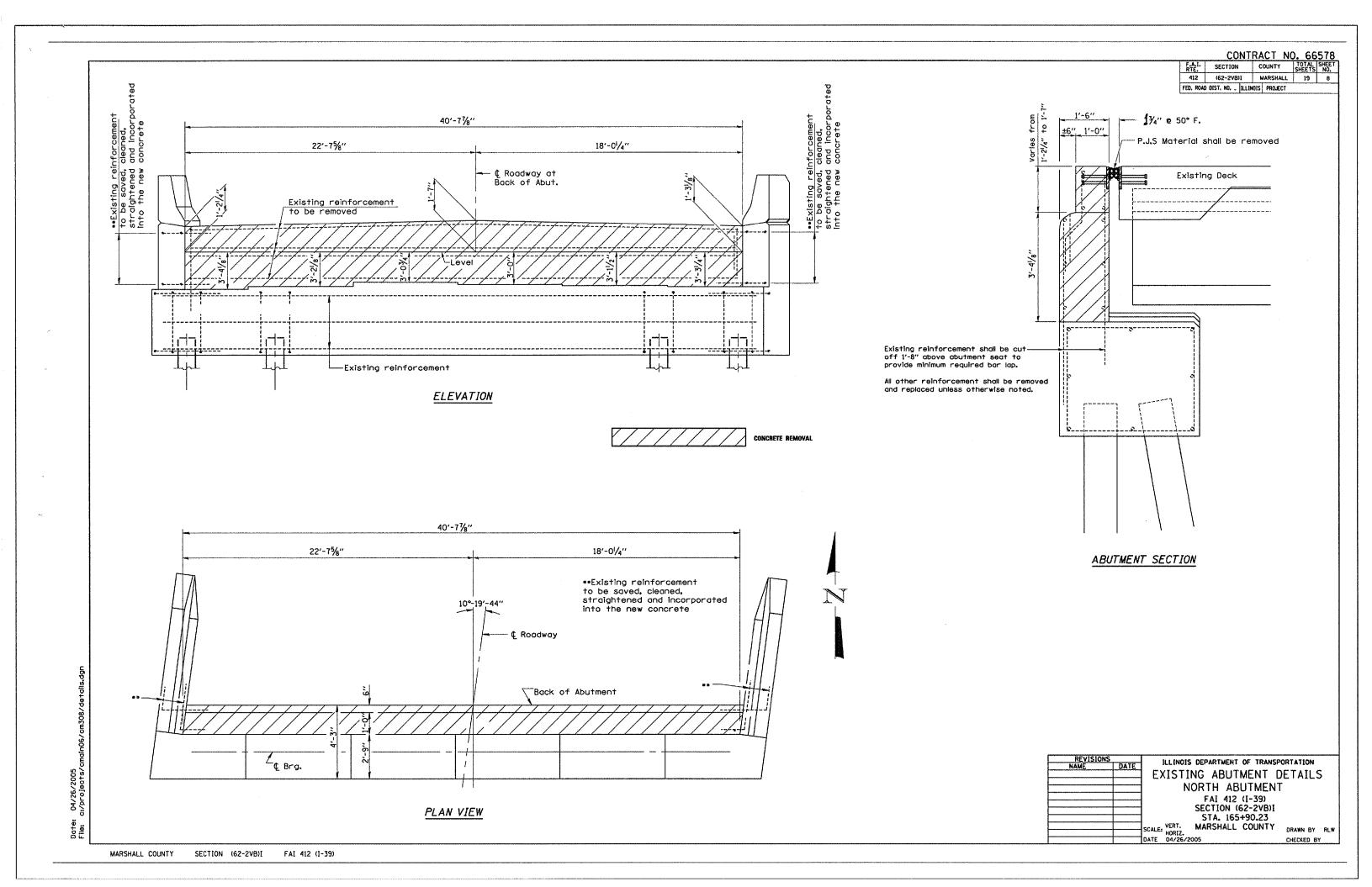
 CONTRACT
 NO.
 66578

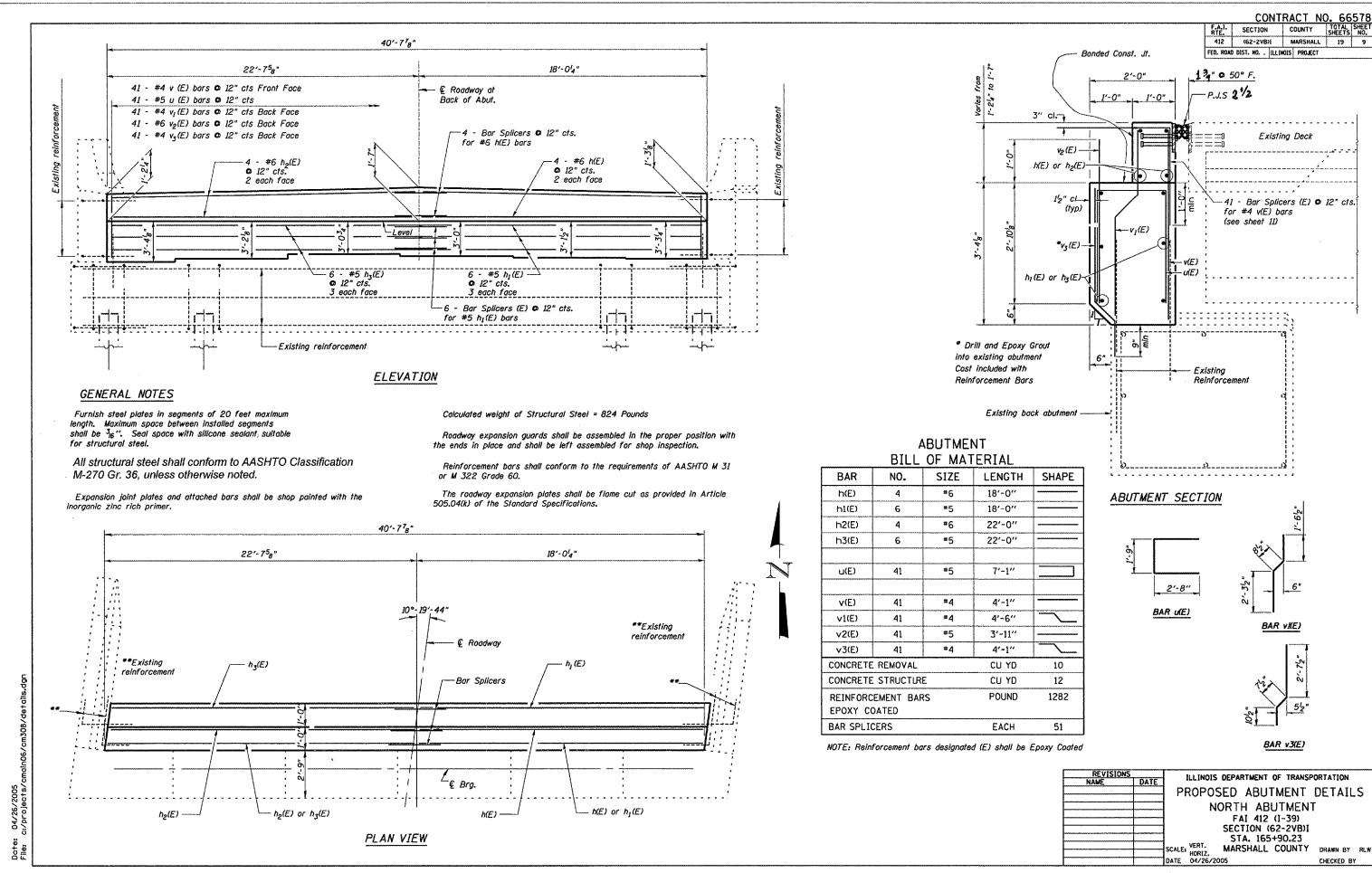
 F.A.I. RTE.
 SECTION
 COUNTY SHEETS NO.

 412
 (62-2VB)1
 MARSHALL
 19
 7
 BM #1 Northwest quadrant of North abutment of S.N. 062-0051 (SB) Chisled "__" Elev. 100.00 FED. ROAD DIST. NO. . ILLINOIS PROJECT 7'-0" -Elevation 97.52 Elev. 98.52 at (Roadway at End of Deck & Roadway Approach Slab Stage Removal Line 7'-0" Earth' ` Excavation DETAIL "A" 1 STAGE I Temporary
Sheet Piling
from Stage I
Construction Stage Removal Line ₡ Roadway --- Temporary Sheet Pile DETAIL "B" STAGE II Elev. 83.52 ILLINOIS DEPARTMENT OF TRANSPORTATION DATE TEMPORARY SHEET PILE DETAILS FAI 412 (I-39) SECTION (62-2VB)I STA. 165+90.23 MARSHALL COUNTY SCALE: VERT. M.
DATE 04/26/2005 DRAWN BY RLW CHECKED BY

MARSHALL COUNTY

SECTION (62-2VB)I FAI 412 (I-39)

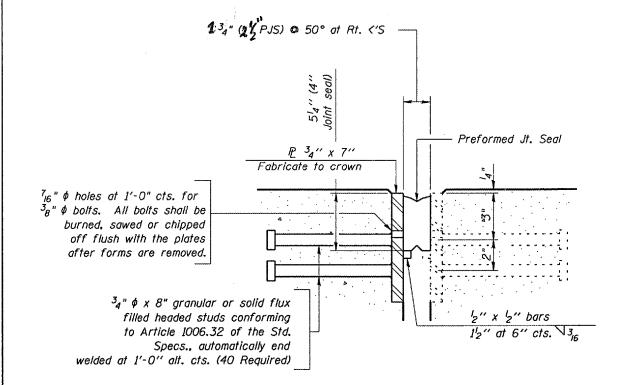




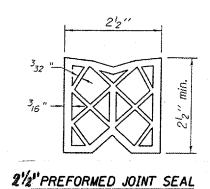
MARSHALL COUNTY

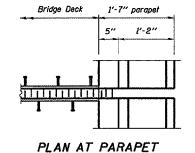
SECTION (62-2VB)I

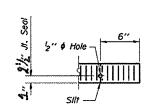
SECTION COUNTY 412 (62-2VB)1 MARSHALL 19 10 FED. ROAD DIST. NO. . ILLINOIS PROJECT



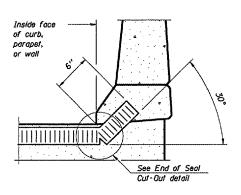
SECTION THRU EXPANSION JOINT AT SOUTH ABUTMENT



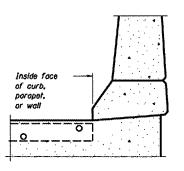




END OF SEAL CUT-OUT



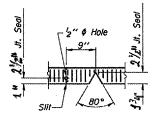
AT CURB. PARAPET. OR WALL



AT CURB, PARAPET, OR WALL

(Showing plate)

TYPICAL END TREATMENTS



SEAL CUT-OUT AT CURB

GENERAL NOTES

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 for a change in the scope of the work, however, the Contractor will be paid for the quantity actually furnished at the unit price bid for the

The roadway expansion plates shall be flame cut as provided in Article 505.04(k) of the Standard Specifications.

Roadway expansion guards shall be assembled in the proper position with the ends in place and shall be left assembled for shop inspection.

Expansion guards shall be fabricated and erected according to Article 503.10(c) of the Standard Specifications and are included in quantity of structural steel.

Expansion joint plates and attached bars shall be shop painted with the inorganic zinc rich primer.

All structural steel shall conform to AASHTO Classification M-270 Gr. 36, unless otherwise noted.

Furnish steel plates in segments of 20 feet maximum length. Maximum space between installed segments shall be 3/16". Seal space with silicone sealant suitable for structural steel.

> ILLINOIS DEPARTMENT OF TRANSPORTATION **EXPANSION JOINT DETAILS** NORTH ABUTMENT FAI 412 (I-39) SECTION (62-2VB)I STA. 165+90.23 MARSHALL COUNTY DRAWN BY RLW CHECKED BY

MARSHALL COUNTY SECTION (62-2VB)I FAI 412 (I-39)

412 (62-2VB)] MARSHALL 19 11 FED. ROAD DIST. NO. . ILLINOIS PROJECT

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:

(Tension in kips) * 1.25 x fy x A

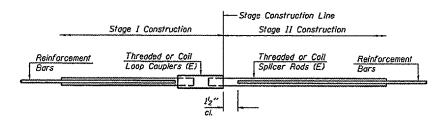
Minimum *Pull-out Strength (Tension in kips) = 1.25 x fs_{clion} x A₁

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

fs_{allow}= Allowable tensile stress in lapped reinforcement bars in ksi (Service Laad) A, = Tensile stress area af lapped reinforcement bars. * = 28 day concrete

	BAR SPLICER ASSEMBLIES								
Ora Cina da	6-4	Strength Requirements							
Bar Size to be Spliced	Dowel Bar Lenath	Min. Capacity kips - tension	Min. Pull-Out Strength kips - tension						
#4	1'-8"	14.7	5.9						
#5	2'-0"	23.0	9.2						
#6	2'-7"	33.1	13.3						
#7	3′-5″	45.1	18.0						
#8	4'-6"	58.9	23.6						
#9	549″	75.0	30.0						
#10	7′-3′′	95.0	38.0						
#][9′-0′′	117.4	46.8						

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



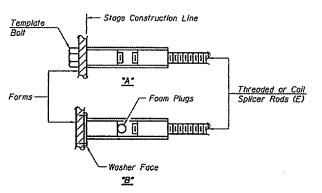
<u>STANDARD</u>

Size	No. Assemblies Required	Location
#6	4	END DAM
#5	6	BACK WALL
#4	8	Approach Pavement
#5	30	Approach Pavement
#4	24	Approach Povement (Concrete Pad)
#6	28	Approach Pavement Connector

BAR SPLICER ASSEMBLY DETAILS

REVISIONS				ILLINOIS DEPARTMENT OF TRANSPORTATION						
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			BA	R	SPLICER	ASS	EMBLY	DE	TA	IL
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		ļ	SCALE	VE			1	DRAWN	BY	RLW
			DATE		RIZ, /26/2005			CHECKE	D BY	

The diameter of this part is equal or larger than the The diameter of this part is the same as the diameter diameter of bar spliced. of the bar spliced. ROLLED THREAD DOWEL BAR

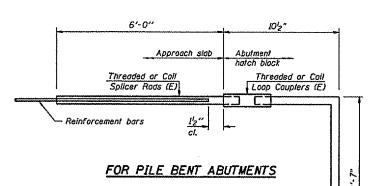


INSTALLATION AND SETTING METHODS

"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.

4 - Bar Splicers • 12" cts.

for #6 h(E) bars



FOR INTEGRAL OR SEMI-INTEGRAL ABUTMENTS

Bridge Deck

4'-0"

Threaded or Coll Loop Couplers (E)

Reinforcement

	Bar	Splicer	For	#5	bar	
Mio.	Capacity	» 23.0	kips	-	tension	
Min.	Pull-out	Strength	= 5	1.2	kips -	tension
No.	Required	*				

Bar Splicer for #5 bar Min. Capacity = 23.0 kips - tension Min. Pull-out Strength = 9.2 kips - tension No. Required =

No. Assemblies Location Required BACK WALL

BSD-1 9-01-03

LASALLE COUNTY

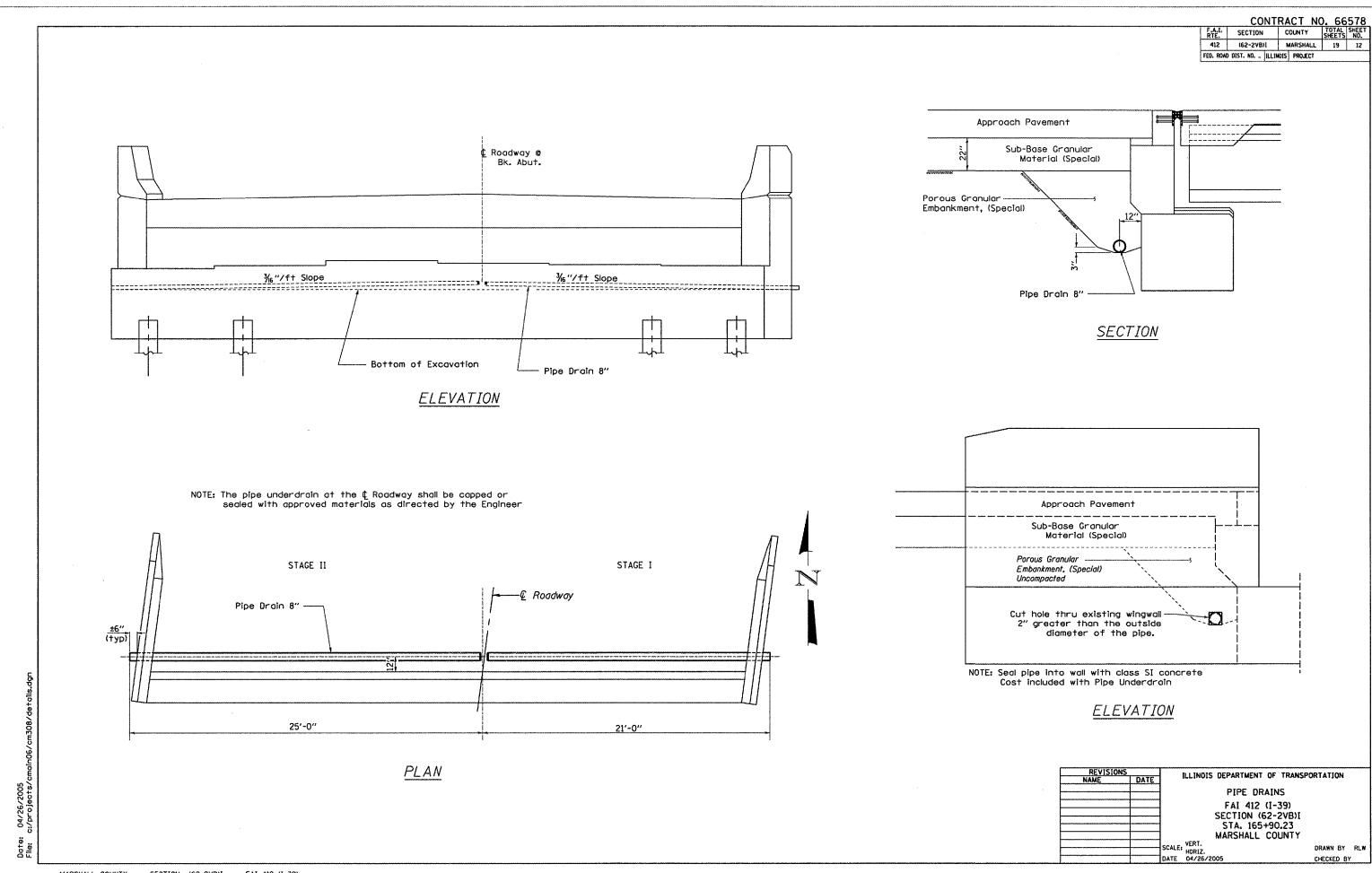
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SECTION: (50-6VB)I-2

Approach Slab

6'-0"

Threaded or Coil Splicer Rods (E)



MARSHALL COUNTY SEC

SECTION (62-2VB)I FAI 41

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F.A.I. RTE.		SECTION	COUNTY		OUNTY	TOTAL SHEETS	SHEET NO.
	412	412 (62-278)]		MARSHALL		19	13
	FED. ROAL	DIST. NO	ILLIN	015	PROJECT		

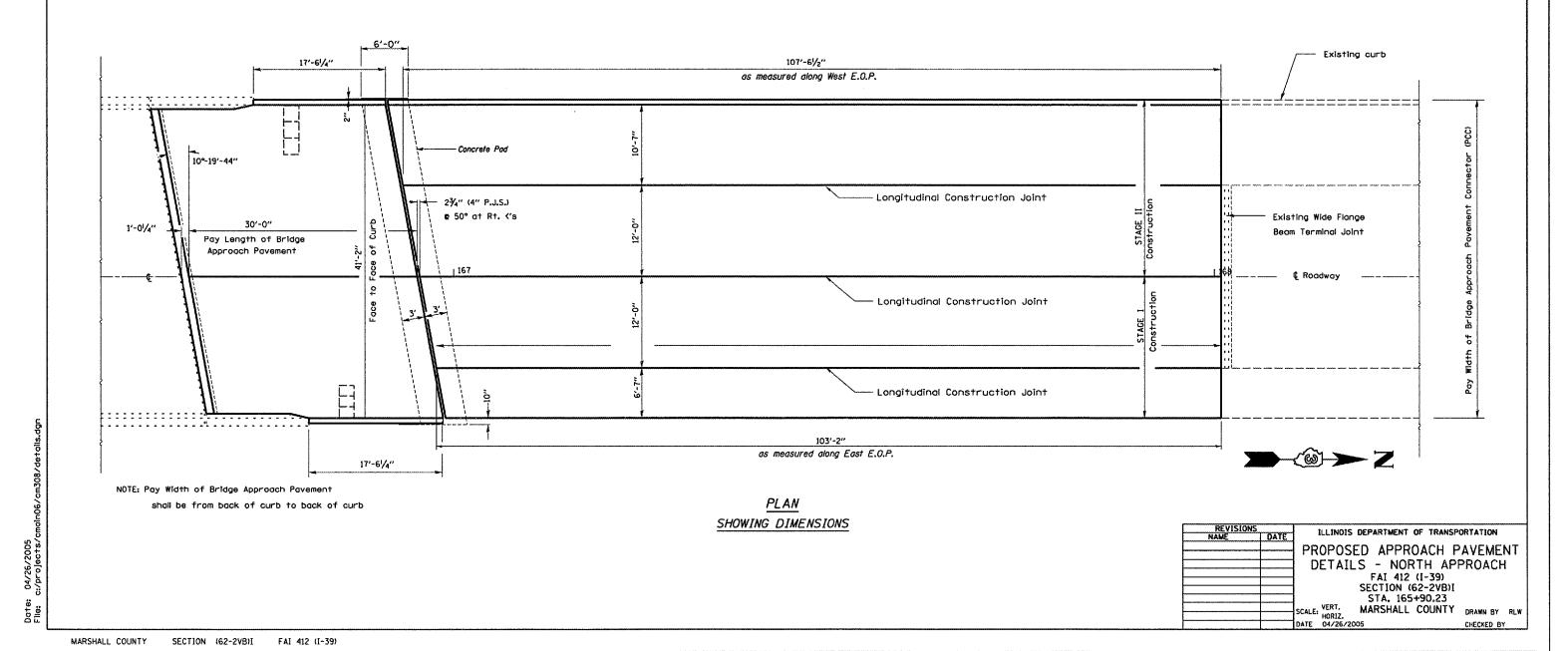
GENERAL NOTES

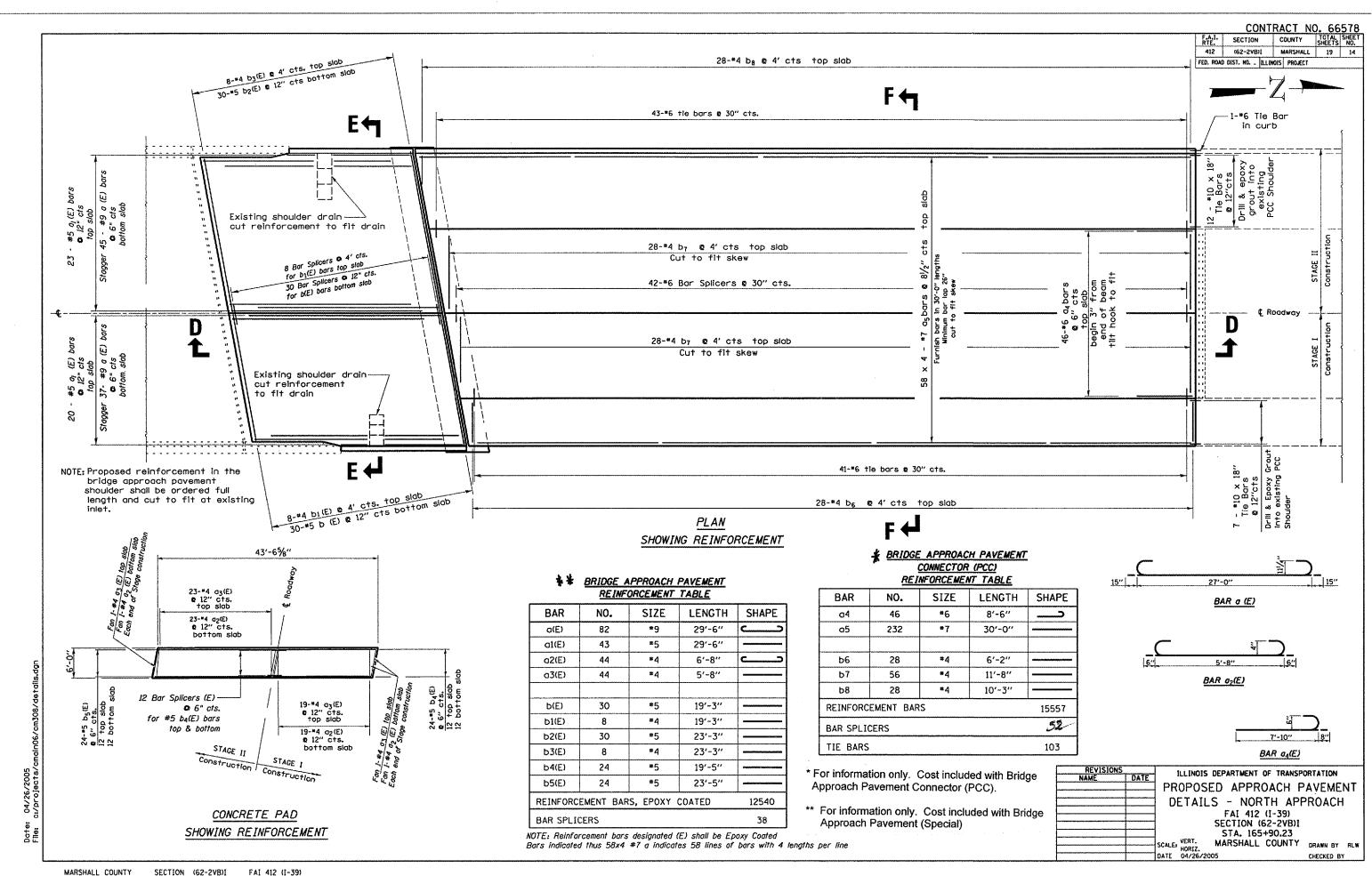
PLAN DIMENSIONS AND DETAILS RELATIVE TO THE EXISTING ROADWAY AND STRUCTURE HAVE BEEN TAKEN FROM EXISTING PLANS AND ARE SUBJECT TO NOMINAL CONSTRUCTION VARIATIONS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY SUCH DIMENSIONS AND DETAILS IN THE FIELD AND TO MAKE NECESSARY APPROVED ADJUSTMENTS PRIOR TO CONSTRUCTION OR ORDERING OF MATERIALS. SUCH VARIATIONS SHALL NOT BE CAUSE FOR ADDITIONAL COMPENSATION FOR A CHANGE IN THE SCOPE OF THE WORK, HOWEVER, THE CONTRACTOR WILL BE PAID FOR THE QUANTITY ACTUALLY FURNISHED AT THE UNIT PRICE BID FOR THE WORK.

REINFORCEMENT BARS OR TIE BARS THAT ARE TO REMAIN IN PLACE WHICH ARE DAMAGED DURING THE REMOVAL OPERATIONS SHALL BE REPAIRED OR REPLACED USING APPROVED BAR SPLICER OR ANCHORAGE SYSTEM. COST INCLUDED WITH THE REMOVAL ITEMS AND NO OTHER COMPENSATION WILL BE ALLOWED.

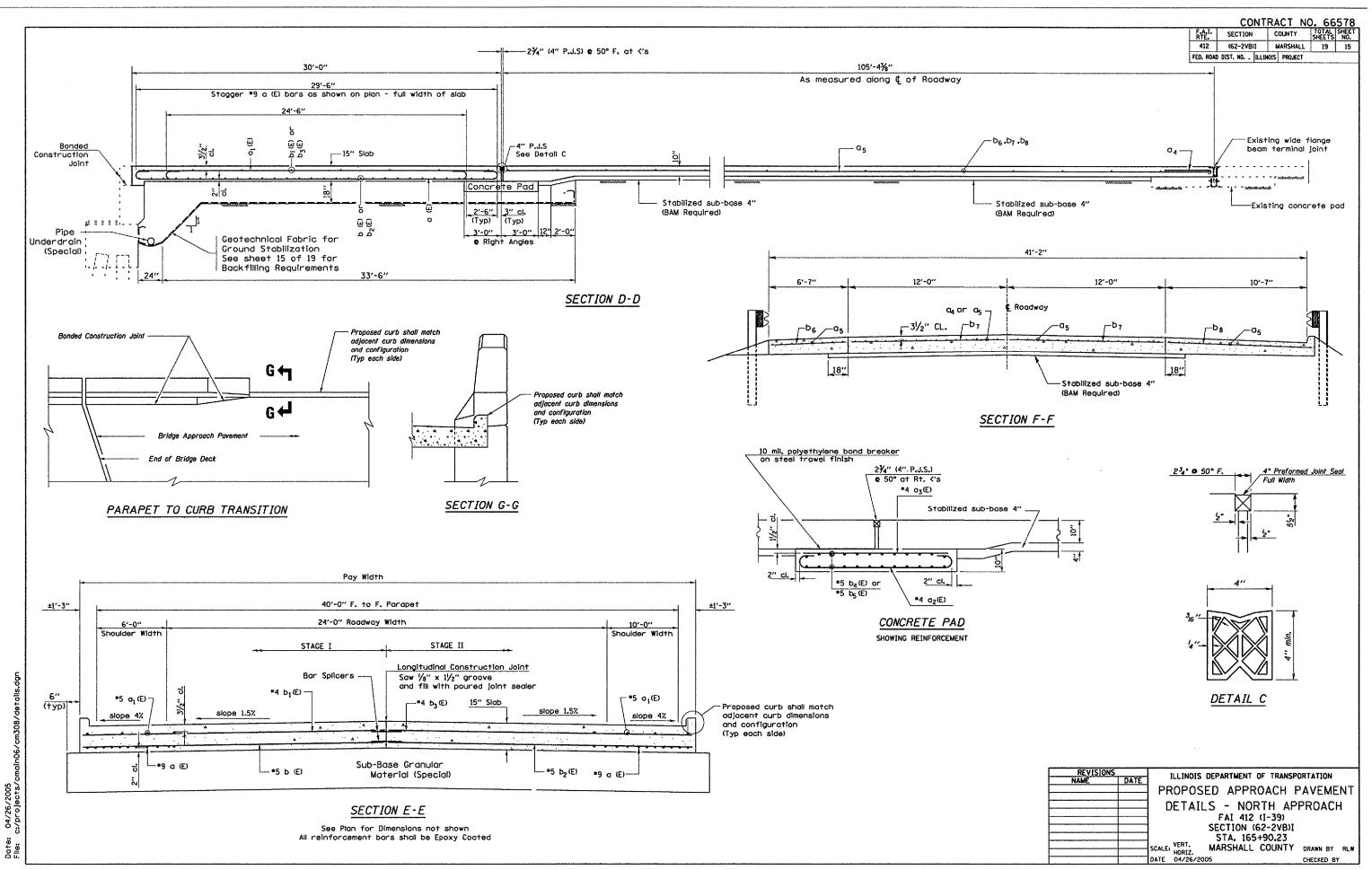
NEW REINFORCEMENT BARS SHALL CONFORM TO THE REQUIREMENTS OF AASHTO M 31 OR M 322 GRADE 60.

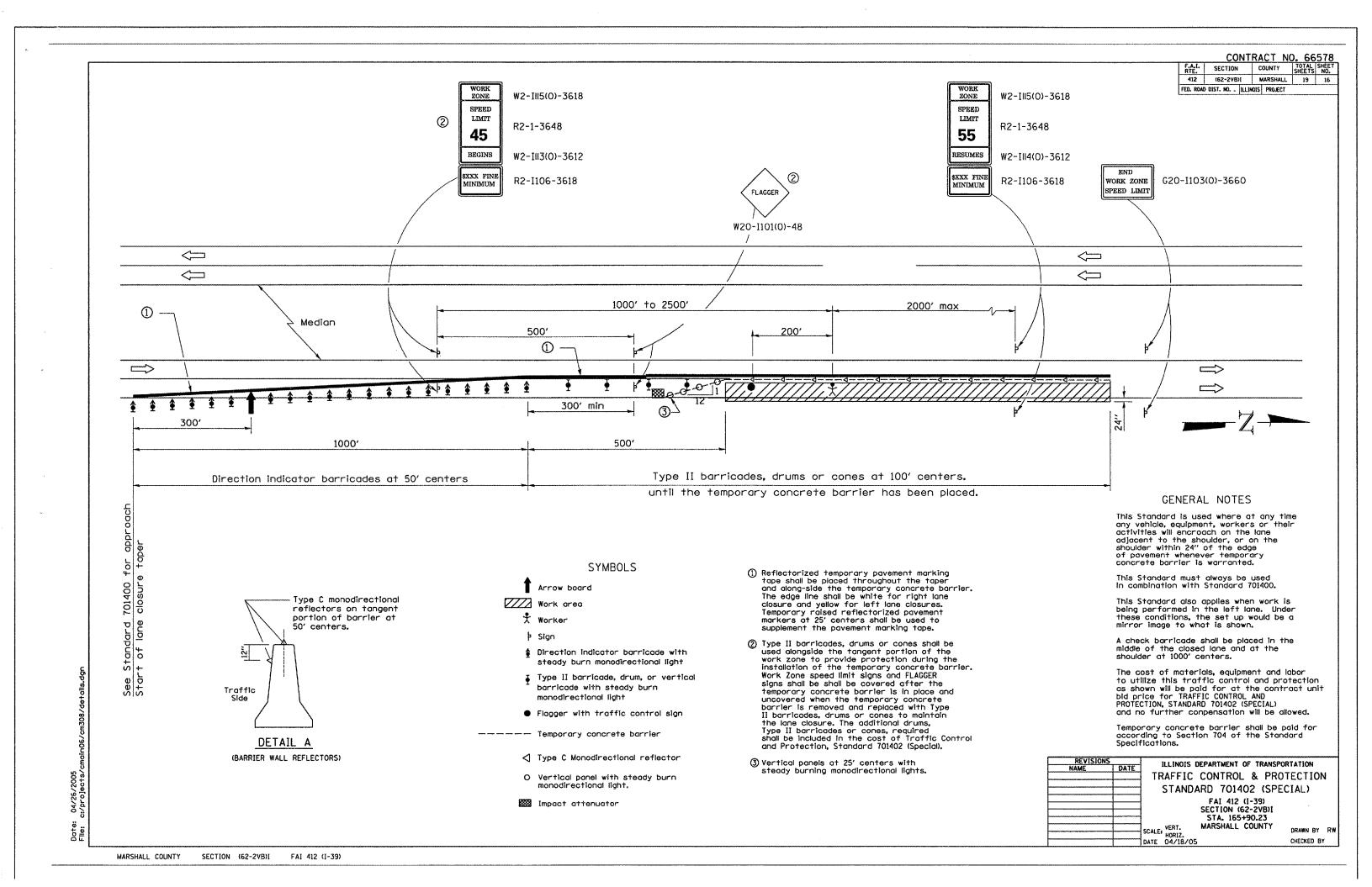
NEW REINFORCEMENT BARS SHALL BE EPOXY COATED

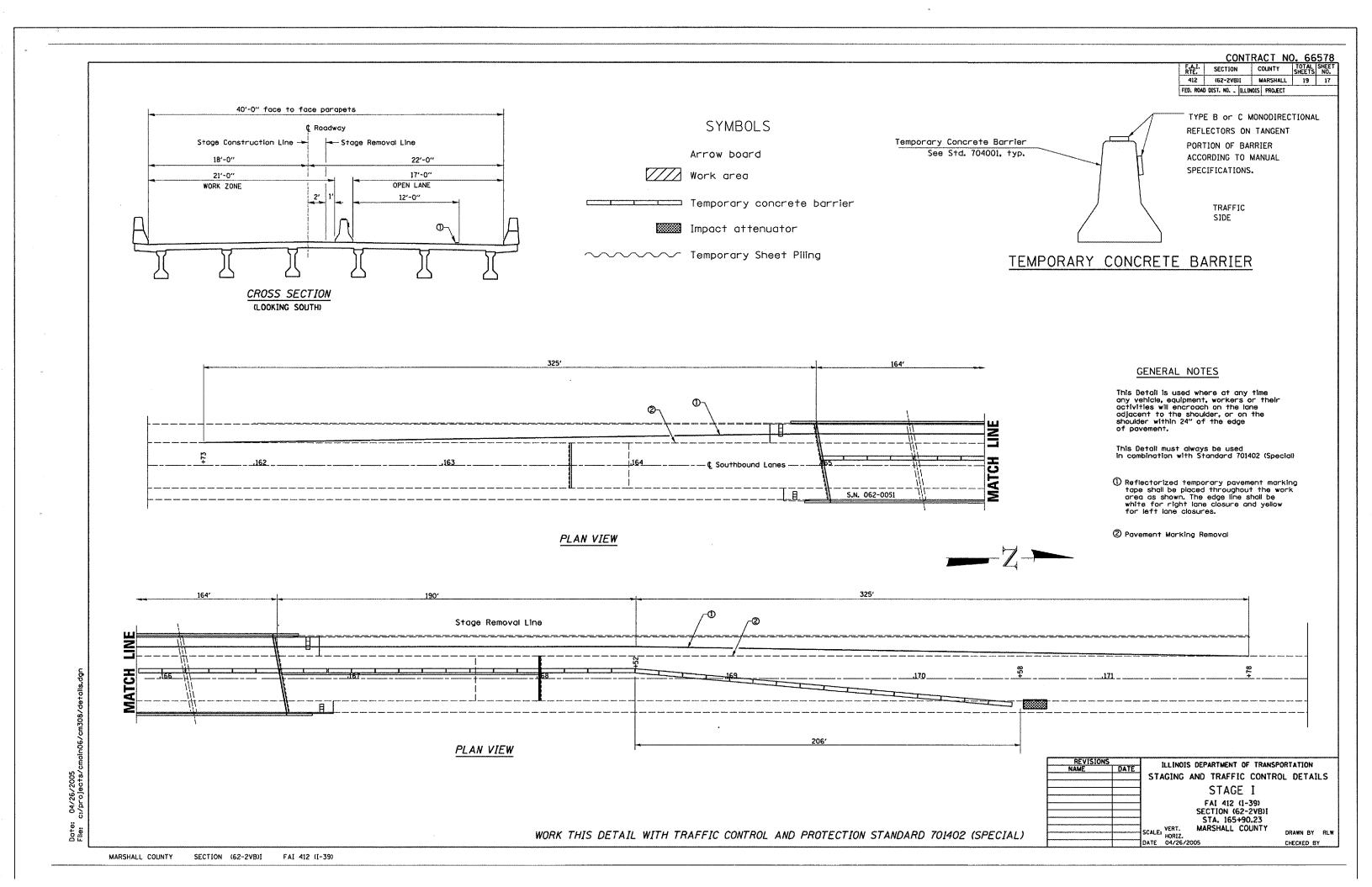


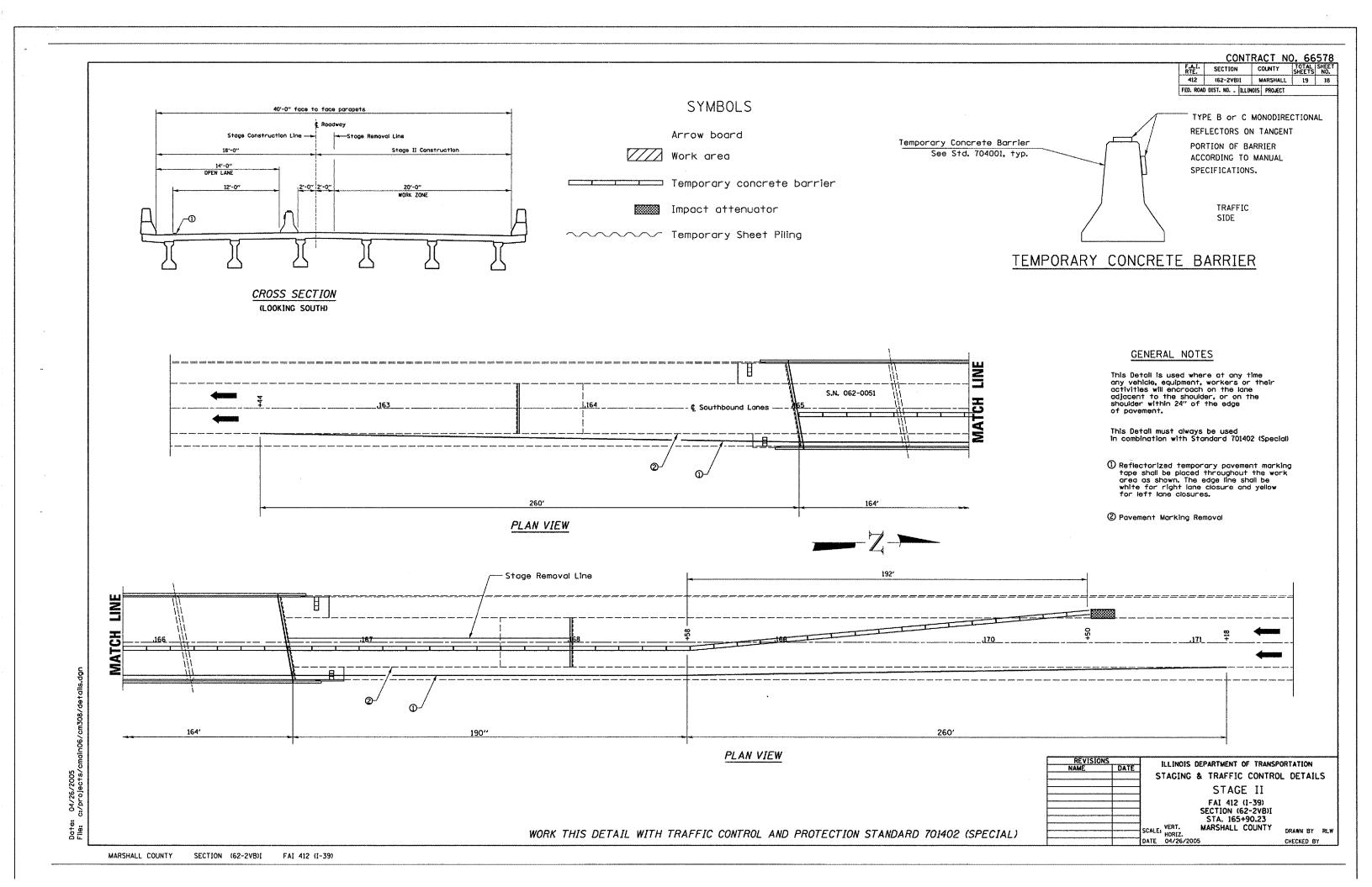


SECTION (62-2VB)I MARSHALL COUNTY







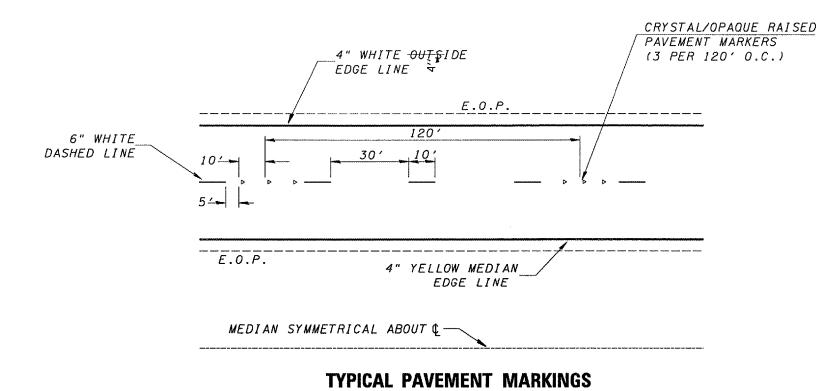


 CONTRACT NO. 66578

 F.A.I. SECTION COUNTY SHEETS NO.

 412 (62-2VB)1 MARSHALL 19 19

 FED. ROAD DIST. NO. . | ILLINOIS | PROJECT



ILLINOIS DEPARTMENT OF TRANSPORTATION PAVEMENT MARKING DETAILS FAI 412 (I-39) SECTION (62-2VB)I STA. 165+90.23 MARSHALL COUNTY

SCALE: VERT. HORIZ. DATE 04/26/2005

DRAWN BY RLW CHECKED BY

MARSHALL COUNTY

SECTION (62-2VB)I