

GIRDER REACTIONS

9₽	(K)	21.2
٩ <i>٤</i>	(K)	38.0
īmp.	(K)	11.1
R (Total)	(K)	70.3

Side Retainer (Typ.)

¢ 1" ∮ x 12" Anchor bolts Grade 36 with $2^{l}4^{\prime\prime} \times 2^{l}4^{\prime\prime} \times {}^{5}_{16}^{\prime\prime} \stackrel{\text{R}}{\text{L}} \text{ washer under nut.}$

 1^{l_2} " ϕ Holes in bottom P_{\bullet} .

SECTION A-A

PTFE Surface

10'

1'-11 3/4 "

14" Dimples on 12" centers

16" deep, or equivalent.

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Diaphragm removal and replacement may be required to facilitate drilling holes. Cost shall be included in the cost of Furnishing and Erecting Structural Steel.

Steel extensions, shim £'s, and connection bolts are included in Furnishing and Erecting Structural Steel.

Prior to ordering any material, the Contractor shall verify in the field all bearing height and shim thickness dimensions.

Min. jack capacity = 35 Tons.

The $^{\prime}_{8}{}^{\prime\prime}$ PTFE sheet shall be bonded directly to the top steel plate with a two-component, medium viscosity epoxy resin, conforming to the requirements of the Federal Specification MMM-A-134, Type I. The bond agent shall be applied on the full area of the contact surfaces.

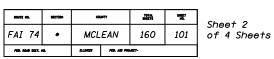
Bonding of 18" PTFE sheet during vulcanizing process will be permitted provided the process and method of adjusting assembly height is approved by the Engineer.

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

Anchor bolts for Type II bearings shall be placed in holes drilled in the concrete through holes in the bottom bearing plate after members are in place. Side retainers shall be placed after bolts are installed.

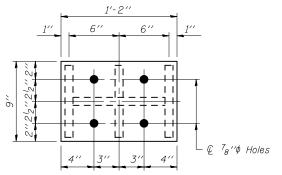
Drilled and set anchor bolts shall be installed according to Article 521.05 of the Standards Specifications.

Side retainers shall be included in the cost of Elastomeric Bearing Assembly, Type II.

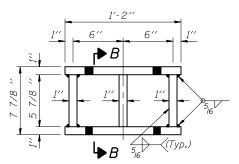


* 57-20(1) & (57-4,5,6)RS-3

CONTRACT NO. 70505



PLAN TOP AND BOTTOM PLATE



STEEL EXTENSION DETAIL

l_{l6}'' Stainless Steel

TYPE II TFE ELASTOMERIC EXP. BRG.

³₄′′¢ Threaded Stud

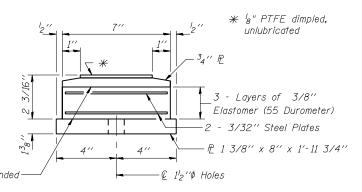
with flat washer & hex. nut. (4-Read.)

P 2" x 9" x 1'-2" (Plate will be

tappered to 17₈")

TOP BEARING ASSEMBLY

BOTTOM BEARING ASSEMBLY



PLAN-PTFE SURFACE

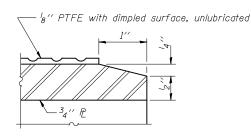
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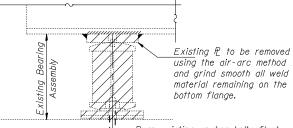
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SECTION THRU PTFE

4 3/4"



Burn existing anchor bolts flush with existing concrete surface. Grind existing anchor bolt smooth and seal with epoxy.

--- € Top Brg.

BELOW 50°F.

SHIM PLATES "T" DIMENSIONS

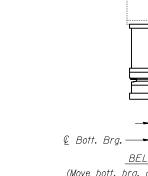
Beam #	3	5	12	14
W. Abuts.	-	11/16′′	3/16′′	11/16′′
E. Abuts.	1/8′′	3/4′′	1/8′′	3/4′′

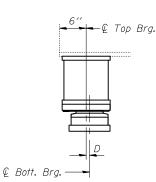
Note: There are existing lighting conduits along the south fascia beam of the Eastbound Structure and the north fascia beam of the Westbound Structure that will need to be temporarily relocated during bearing replacement. The cost of this relocation will be included in the cost of bearing replacement. Should the lighting system or conduit be damaged, it shall be repaired at the contractor's expense.

EXISTING BEARING REMOVAL DETAIL

Cost included with Jack and Remove Existing Bearings.

SECTION B-B





ABOVE 50°F.

(Move bott, brg. away from fixed brg.) (Move bott, brg. toward fixed brg.)

SIDE RETAINER

€ 14" \$ Hole

4 3/4"

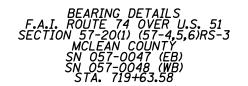
Equivalent rolled angle with stiffeners will be allowed in lieu of welded plates.

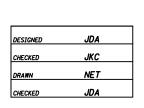
SETTING ANCHOR BOLTS AT EXP. BRG.

 $D=I_{B}^{\prime\prime\prime}$ per each 100' of expansion for every 15° temp. change from the normal temp, of 50°F.

BILL OF MATERIAL

Item	Unit	Total
Elastomeric Bearing Assembly Type II	Each	36
Furnishing and Erecting Structural Steel	Pound	6800
Jack and Remove Existing Bearing	Each	36
Anchor Bolts, 1"	Each	72

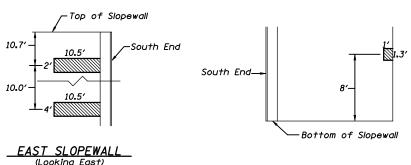


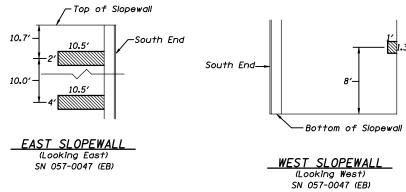


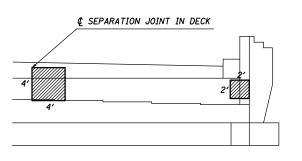


* 57-20(1) & (57-4,5,6)RS-3

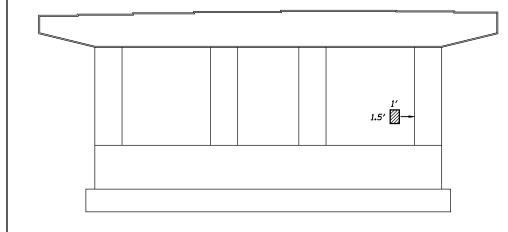
CONTRACT NO. 70505



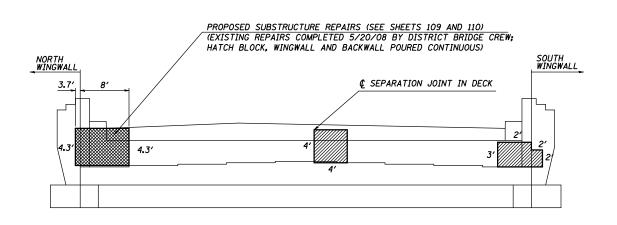




WEST ABUTMENT (Looking West) (North End) SN 057-0047 (EB)



EAST ELEVATION (Looking West)



EAST ABUTMENT (Looking East) SN 057-0047 (EB)

BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Structural Repair of Concrete (Depth Equal to or Less Than 5")	Sq. Ft.	48
Slopewall Removal	Sq. Yd.	7.1
Slopewall, 4 Inch	Sa. Yd.	7.1

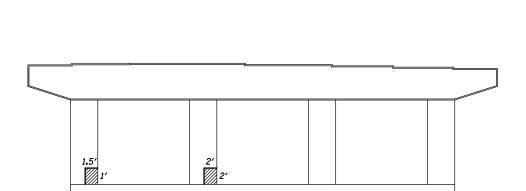
LEGEND

Structural Repair of Concrete (Depth Equal to or Less Than 5")

Slopewall Removal Slopewall, 4 Inch

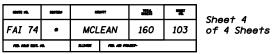
PIER, ABUTMENT, AND SLOPEWALL REPAIR
F.A.I. ROUTE 74 OVER U.S. 51
SECTION 57-20(1) & (57-4,5,6)RS-3
MCLEAN COUNTY
SN 057-0047 (EB)
SN 057-0048 (WB)
STA. 719+63.58

DESIGNED	JDA
CHECKED	JKC
DRAWN	NET
CHECKED	.IDA



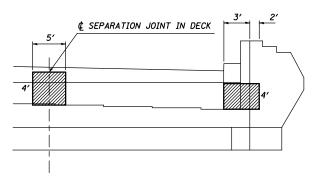
<u>WEST ELEVATION</u> (Looking East)

PIER 3
SN 057-0048 (WB)



* 57-20(1) & (57-4,5,6)RS-3

CONTRACT NO. 70505



SOUTHEAST WINGWALL AND ABUTMENT (Looking East) SN 057-0048 (WB)

LEGEND

Structural Repair of Concrete (Depth Equal to or Less Than 5")

BILL OF MATERIAL

ITEM	UNIT	QUANTITY	
Structural Repair of Concrete (Depth Equal to or Less Than 5")	Sq. Ft.	46	

 DESIGNED
 JDA

 CHECKED
 JKC

 DRAWN
 NET

 CHECKED
 JDA

PIER, ABUTMENT, AND WINGWALL REPAIR F.A.I. ROUTE 74 OVER U.S. 51 SECTION 57-20(1) & (57-4,5,6)RS-3 MCLEAN COUNTY SN 057-0047 (EB) SN 057-0048 (WB) STA. 719+63.58 Benchmark: BM #1 on center top of slope drain headwall at Sta.48+60, 50' west of edge of southbound pavement Elev. = 815.96

Existing Structure: The existing dual four-span structures were built in 1963 as F.A.I. Route 74. The 7 inch R.C. slobs were supported on W30 X Beams. The existing structures are 181'-2" Back to Back of Abutments and vary from 52'-4 9/16" to 54'-7 1/16" Out to Out of Decks.

In 1991, the concrete deck was replaced and the substructure was repaired.

-Centerline Bearing

West Abutment

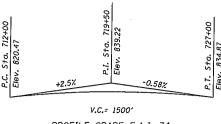
See additional proposed work on this sheet for description of proposed improvements.

Centerline

Stage Construction Line

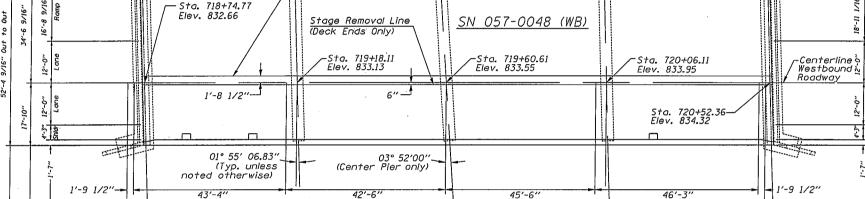
Pier 1

Traffic to be maintained using Stage Construction.



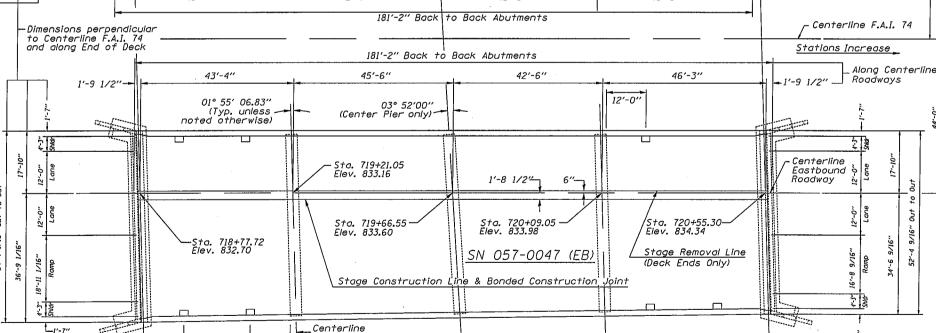


PROFILE GRADE F.A.I.-74 Centerline Centerline Bearing Pier 3 East Abutment Bonded Construction Joint



Centerline

Pier 2



PLAN

_Centerline Pier 5

FILE NAME USER NAME = \$USER\$ DESIGNED - GMS REVISED -DRAWN - GMS REVISED -\$FILEL\$ CHECKED -REVISED PLOT SCALE = \$SCALE\$ PLOT DATE = *DATE* DATE REVISED

20'-0"

Centerline Bearing

West Abutment

12'-0"

Pier 4

Location of

Drainage Scuppers (Typ.)

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

Centerline Bearing

SCALE:

SHEE

East Abutment

Centerline

Pier 6

GENERAL PLAN S.N. 057-0047 & S.N. 057-0048			F.A.I. RTE.	
			74	57-20
ET NO. 1A OF 11A SHEETS	STA.	TO STA.	FED. RI	DAD DIST. N

COUNTY TOTAL SHEE NO. SECTION O(1)&(57-4,5,6)R-3 MCLEAN 160 104 CONTRACT NO. 70505 NO. ILLINOIS FED. AID PROJECT

ADDITIONAL PROPOSED WORK

- 1. Partial deck removal and replacement.
- 2. Add shear stud connectors at abutment end of beams.
- 3. Removal and replacement of portion of backwall and
- wingwall of EB structure.

 4. Replace all four abutment PJS expansion joints with preformed ioint strip seal.

BILL OF MATERIALS

Item	Uni†	Super.	Sub.	Total
CONCRETE REMOVAL	CU YD	44.3	19.0	63.3
CONCRETE SUPERSTRUCTURE	CU YD	44.3	19.0	63.3
PROTECTIVE COAT	SO YD	192.5		192.5
REINFORCEMENT BARS, EPOXY COATED	POUND	8800	3150	11950
PREFORMED JOINT STRIP SEAL	FOOT	214.0		214.0
BAR SPLICERS	EACH	104		104
SHEAR STUD CONNECTORS	EACH	864		864

QUANTITIES FOR TEMPORARY CONCRETE BARRIER AND RELOCATE TEMPORARY CONCRETE BARRIER INCLUDED IN ROADWAY PLANS.

GENERAL NOTES

The deck ends, hatch blocks and approach pavement shall have its final surface tined according to Article 420.09 (e) (j) of the Standard Specifications. Cost to be included with concrete superstructure.

Plan dimensions and details relative to the 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 the 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 work. However, the Contractor will be paid for the quantity actually furnished at the unit price for the work.

The existing structural steel coating contains lead. The Contractor shall take appropriate precautions to deal with the presence of lead on this project.

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

Reinforcement bars designated (E) shall be epoxy coated.

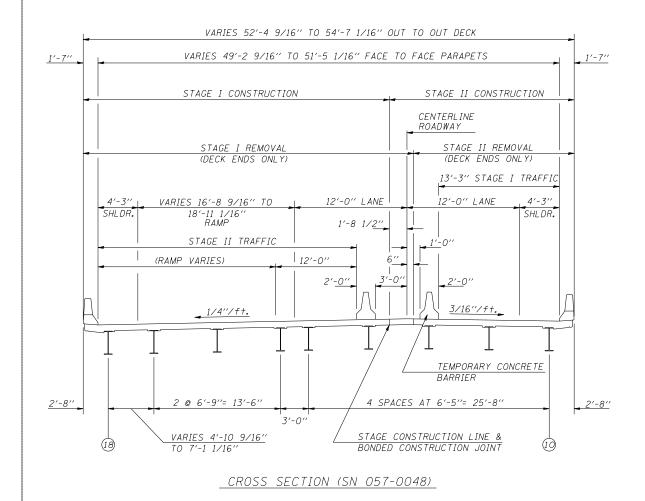
Prior to pouring the new concrete deck, all heavy or loose rust, loose mill scale, and other loose or potentially detrimental foreign material shall be removed from the surface in contact with concrete. Tightly adhered paint may remain unless otherwise noted. Removal shall be accomplished by methods that will not damage the steel and the cost will be included in the pay item covering removal of the existing concrete.

Existing structural steel that will be in contact with new structural steel shall be cleaned and painted prior to erection as required by the Special Provision "Cleaning and Painting Contact Surface Areas of Existing Steel Structures".

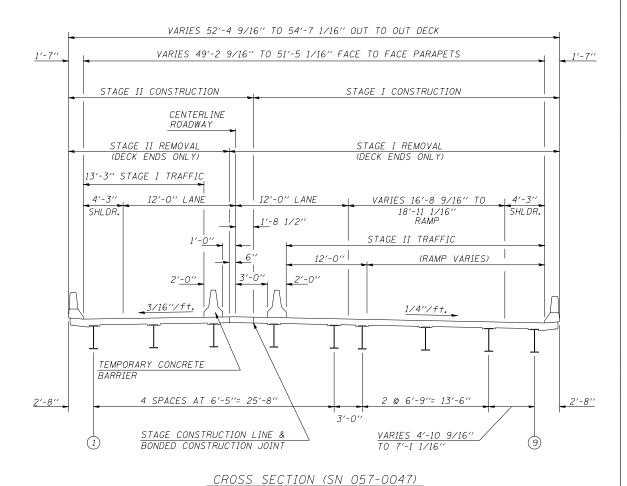
Existing reinforcement bars extending into the removal area shall be cleaned, straightened and incorporated into the new construction. Any reinforcement bars that are damaged during concrete removal shall be replaced with an approved bar splicer or anchorage system. Cost included with Concrete Removal.

Joint openings shall be adjusted according to article 520.04 of the Std. Specs, when the deck is poured at an ambient temperature other than

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



CENTERLINE F.A.I. 74



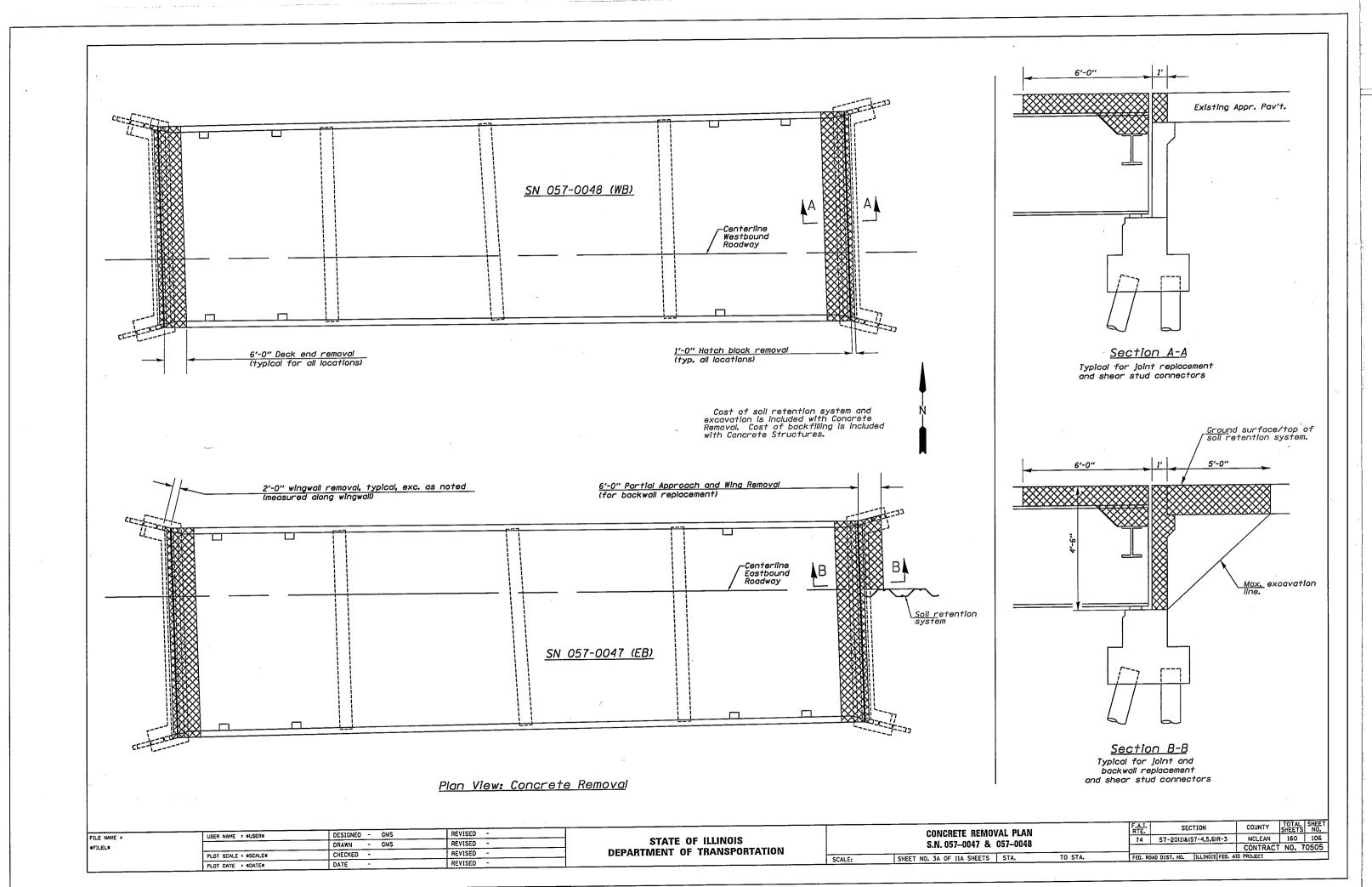
TO STA.

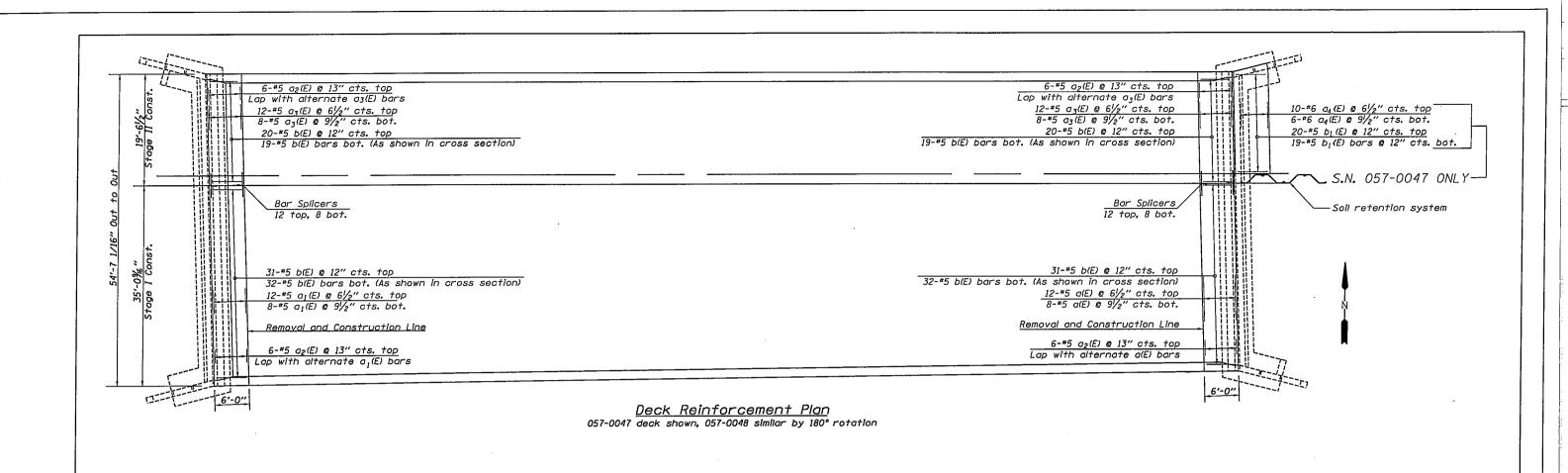
FED. ROAD DIST. NO. | ILLINOIS FED. AID PROJECT

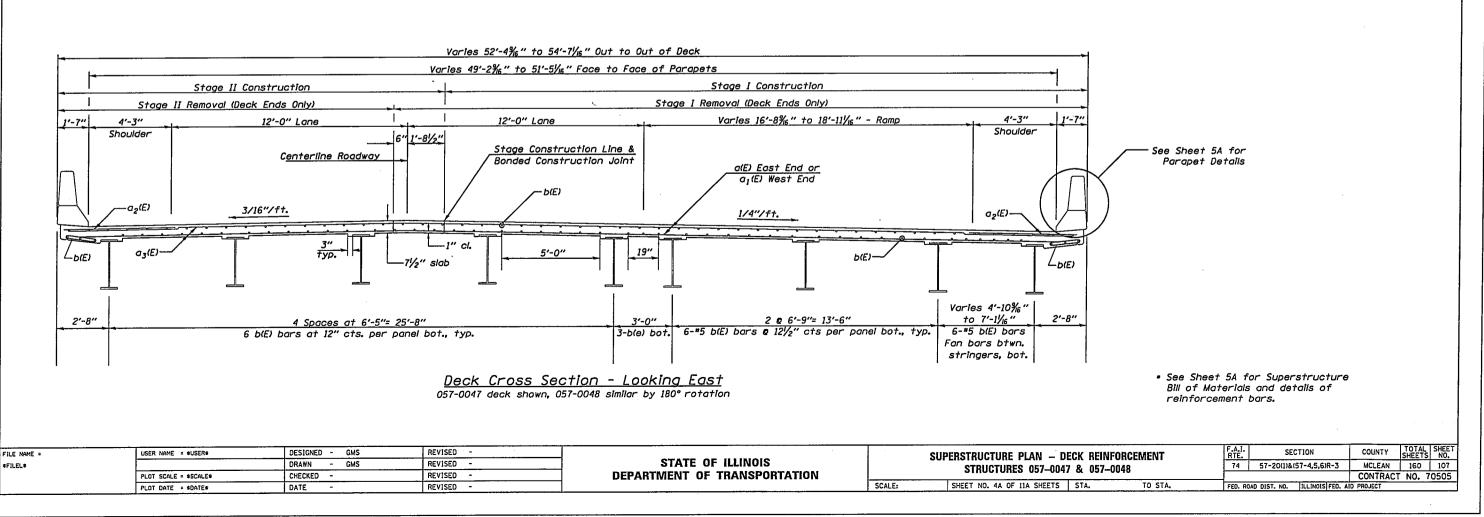
CONTRACT NO. 70505

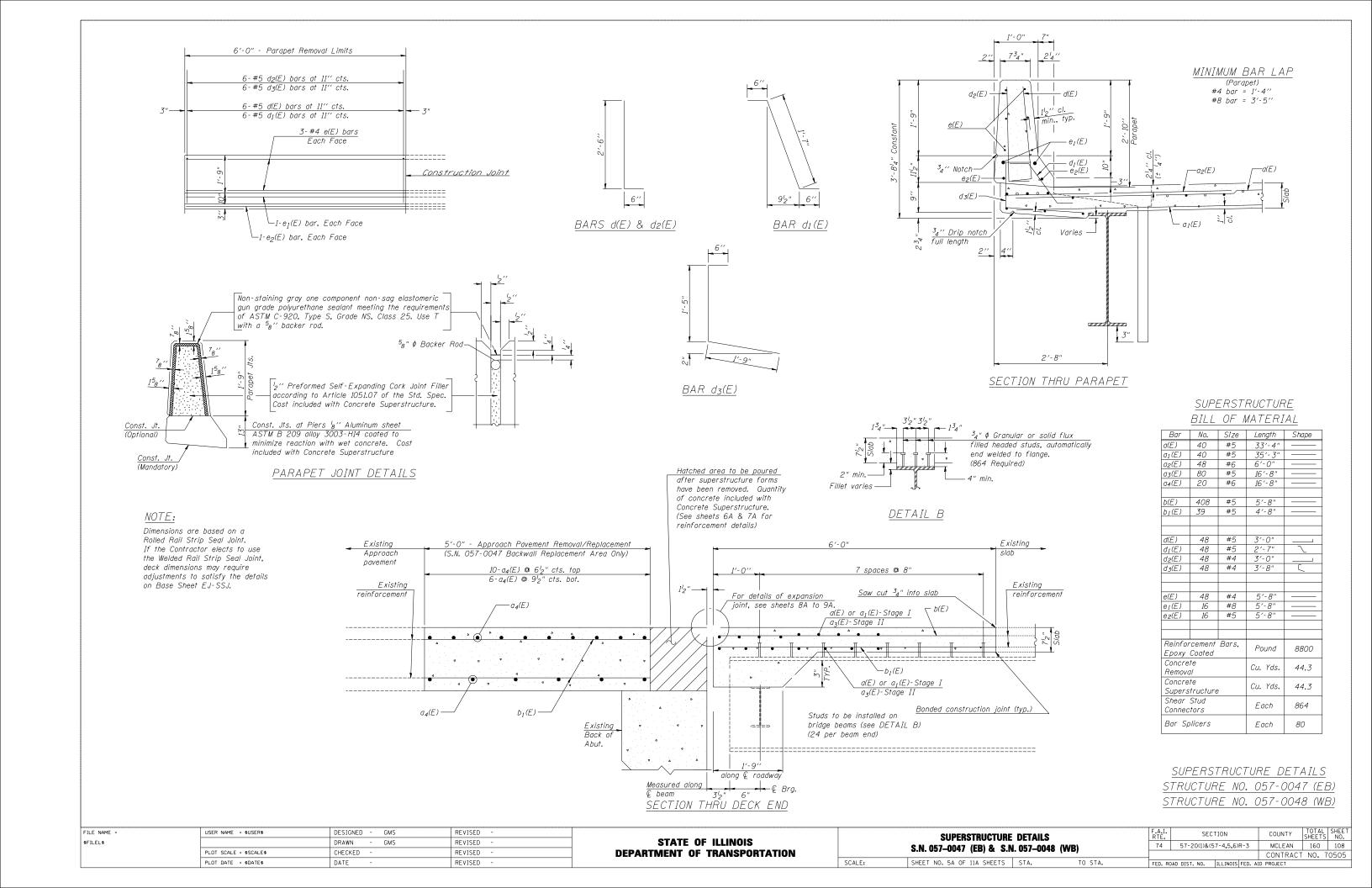
LOOKING EAST

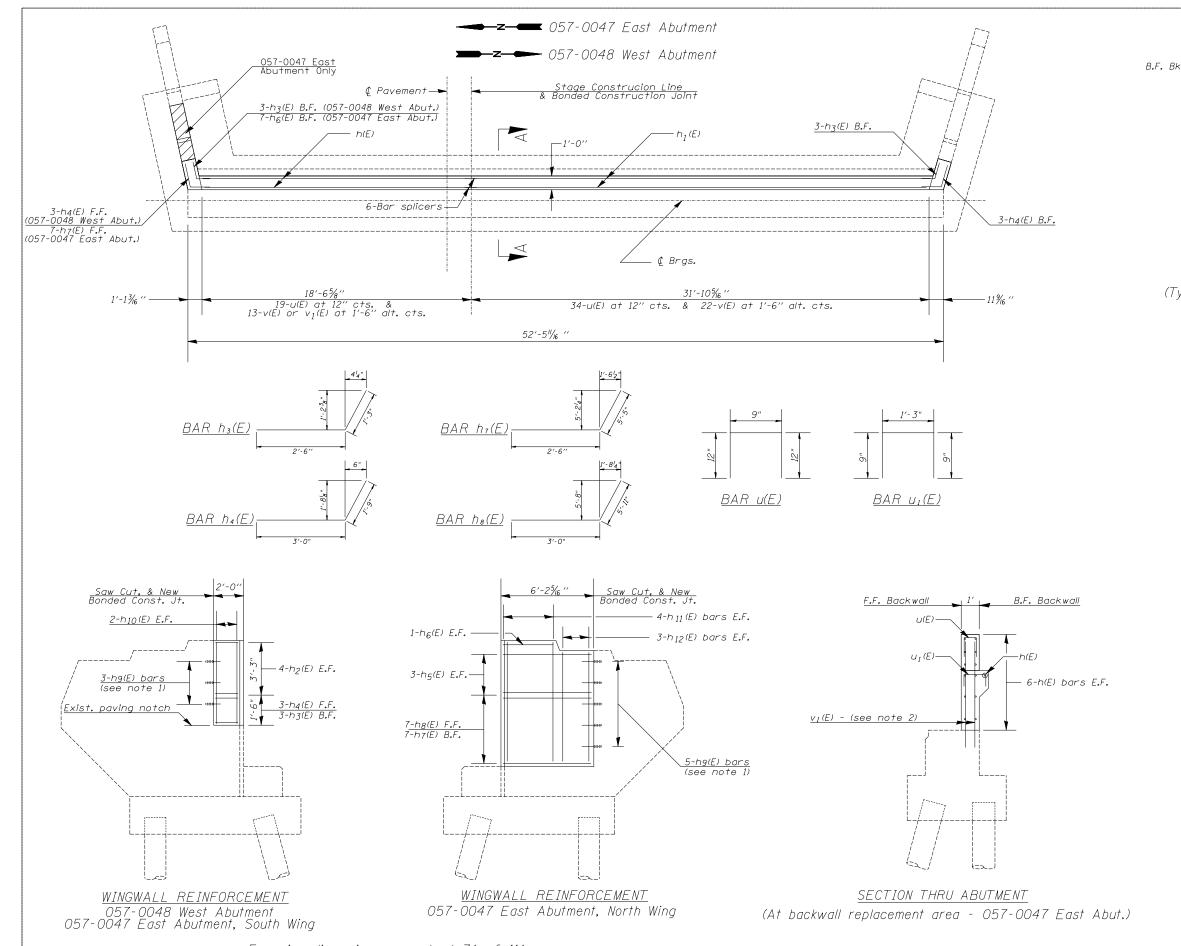
USER NAME = \$USER\$ DESIGNED - GMS REVISED FILE NAME STATE OF ILLINOIS \$FILEL\$ DRAWN - GMS REVISED STAGE CONSTRUCTION PLOT SCALE = \$SCALE\$ CHECKED REVISED **DEPARTMENT OF TRANSPORTATION** SCALE: SHEET NO. 2A OF 11A SHEETS STA. PLOT DATE = \$DATE\$ DATE REVISED











Wall ———	1'-0'' F.F. Bk. Wall
ļ	u(E)
}	3-h(E) or h _I (E) bars E.F.
}	v(E) - (see note 2)
	Wall ———————————————————————————————————

<u>SECTION A - A</u> (Typical for joint replacement)

NOTES:

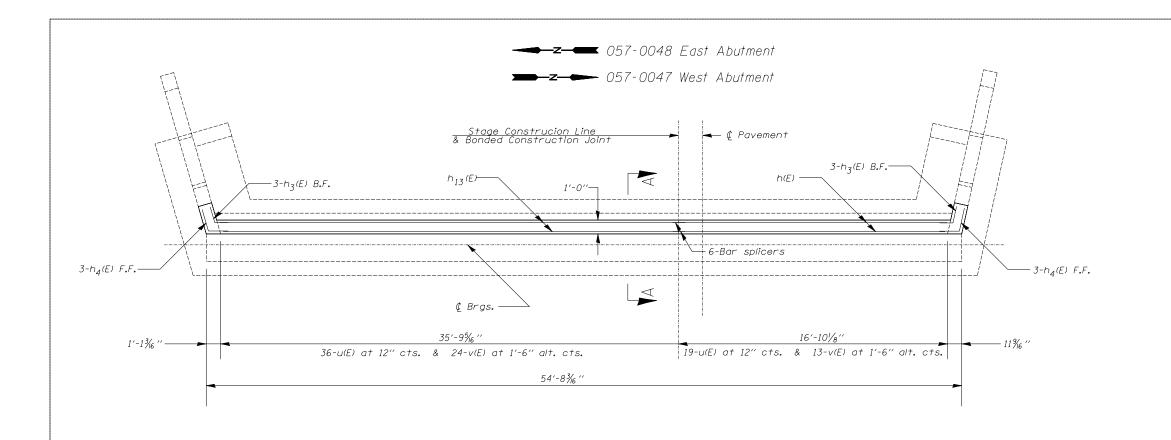
- Epoxy grout hg(E) bars in 9" Min. drilled holes according to Article 584 of the Standard Specs.
- Epoxy grout #5-v(E) & V₁(E) bars in ⁷/₈" dia, min. drilled holes (see Spec. Prov.) The method of grout application shall be approved by the engineer. The cost shall be incidental to the cost of reinforcement bars, epoxy coated.

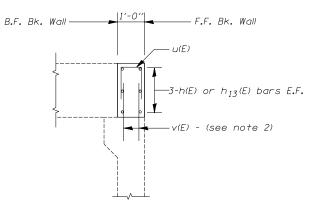
TWO ABUTMENTS BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h(E)	19	#6	16′-8"	
$h_I(E)$	12	#6	33'-2"	
h ₂ (E)	24	#4	1′-8"	
hʒ(E)	9	#4	3′-9"	
h4(E)	9	#4	4'-9"	
h5(E)	6	#4	5′-10"	
h ₆ (E)	2 7	#4	3'-4"	
h ₇ (E)		#4	7′-11"	
h ₈ (E)	7	#4	8′-11"	
hg(E)	14	#6	2'-0"	
h 10 (E)	12	#4	4'-3"	
h 11 (E)	8	#4	7′-2"	
h ₁₂ (E)	6	#4	6'-6"	
u(E)	106	#4	2'-9" 2'-9"	
υ ₁ (Ε)	16	#4	2'-9"	
v(E)	58	#4	1'-9"	
$v_I(E)$	12	#4	4'-6"	
Reinfor Epoxy	cement Coated	Bars,	Pound	1730
Concrete		Cu. Yds.	11.1	
Removal		cu. 108.	11.1	
Concrete Superstructure		Cu. Yds.	11.1	
Bar Sp	licers		Each	12
			1	

For wing dimensions, see sheet 7A of 11A

FILE NAME = USER NAME = \$USER\$ DESIGNED - GMS REVISED -		SUBSTRUCTURE DETAILS	F.A.I. SECTION COUNTY SHEET NO.
\$FILEL\$ DRAWN - GMS REVISED -	STATE OF ILLINOIS	057-0047 EAST ABUTMENT & 057-0048 WEST ABUTMENT	74 57-20(1)&(57-4,5,6)R-3 MCLEAN 160 109
PLOT SCALE = \$SCALE\$ CHECKED - REVISED -	DEPARTMENT OF TRANSPORTATION	US7-UU47 EAST ABUTMENT & US7-UU40 WEST ABUTMENT	CONTRACT NO. 70505
PLOT DATE = *DATE* DATE - REVISED -		SCALE: SHEET NO. 6A OF 11A SHEETS STA. TO STA.	FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT

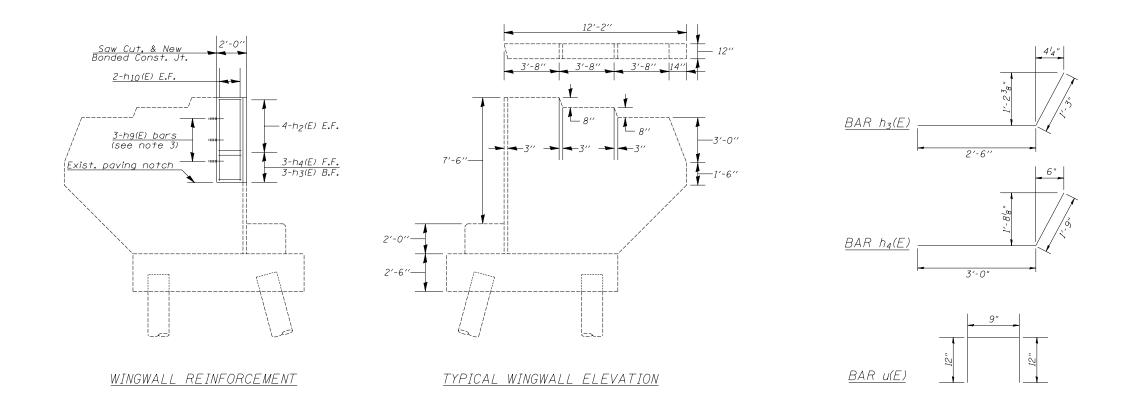




SECTION A-A

NOTES:

- Epoxy grout hg(E) bars in 9" Min. drilled holes according to Article 584 of the Standard Specs.
- Epoxy grout #5-v(E) & V₁(E) bars in ⁷/₈" dia. min. drilled holes (see Spec. Prov.) The method of grout application shall be approved by the engineer. The cost shall be incidental to the cost of reinforcement bars, epoxy coated.



TWO ABUTMENTS BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h(E)	12	#6	16′-8"	
h2(E)	32	#4	1′-8"	
h3(E)	12	#4	3′-9"	/
h4(E)	12	#4	4'-9"	
hg(E)	12	#6	2'-0"	
h 10 (E)	16	#4	4'-3"	
h 13 (E)	12	#6	35′-7"	
(=)				
u(E)	110	#4	2'-9"	
v(E)	74	#4	1'-9"	
		L		
Reinfor Epoxy	cement Coated	Bars,	Pound	1420
Concrete		Cu. Yds.	7.9	
Removal				
1	Concrete Superstructure		Cu. Yds.	7.9
Bar Sp	licers		Each	12
				1

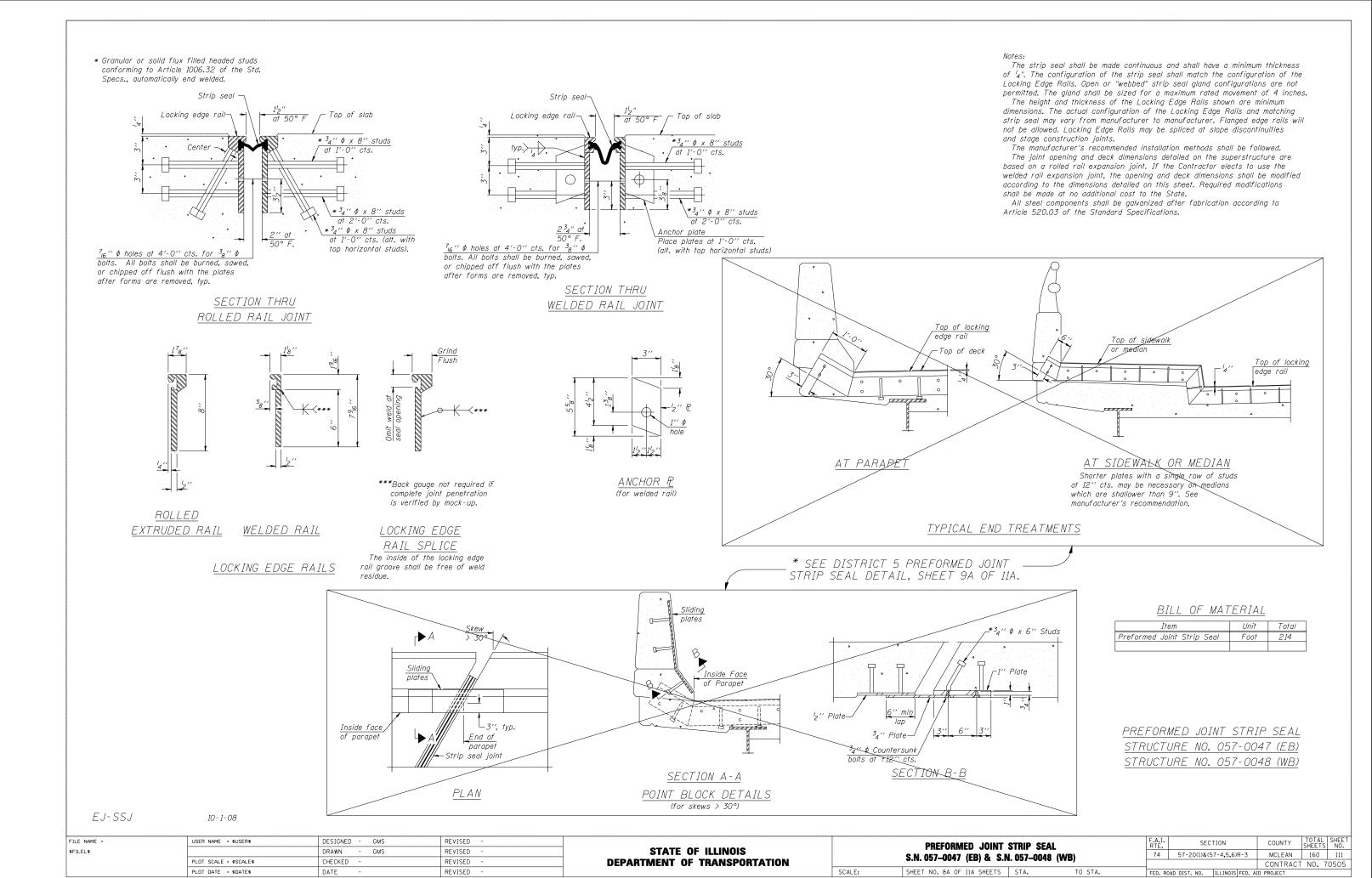
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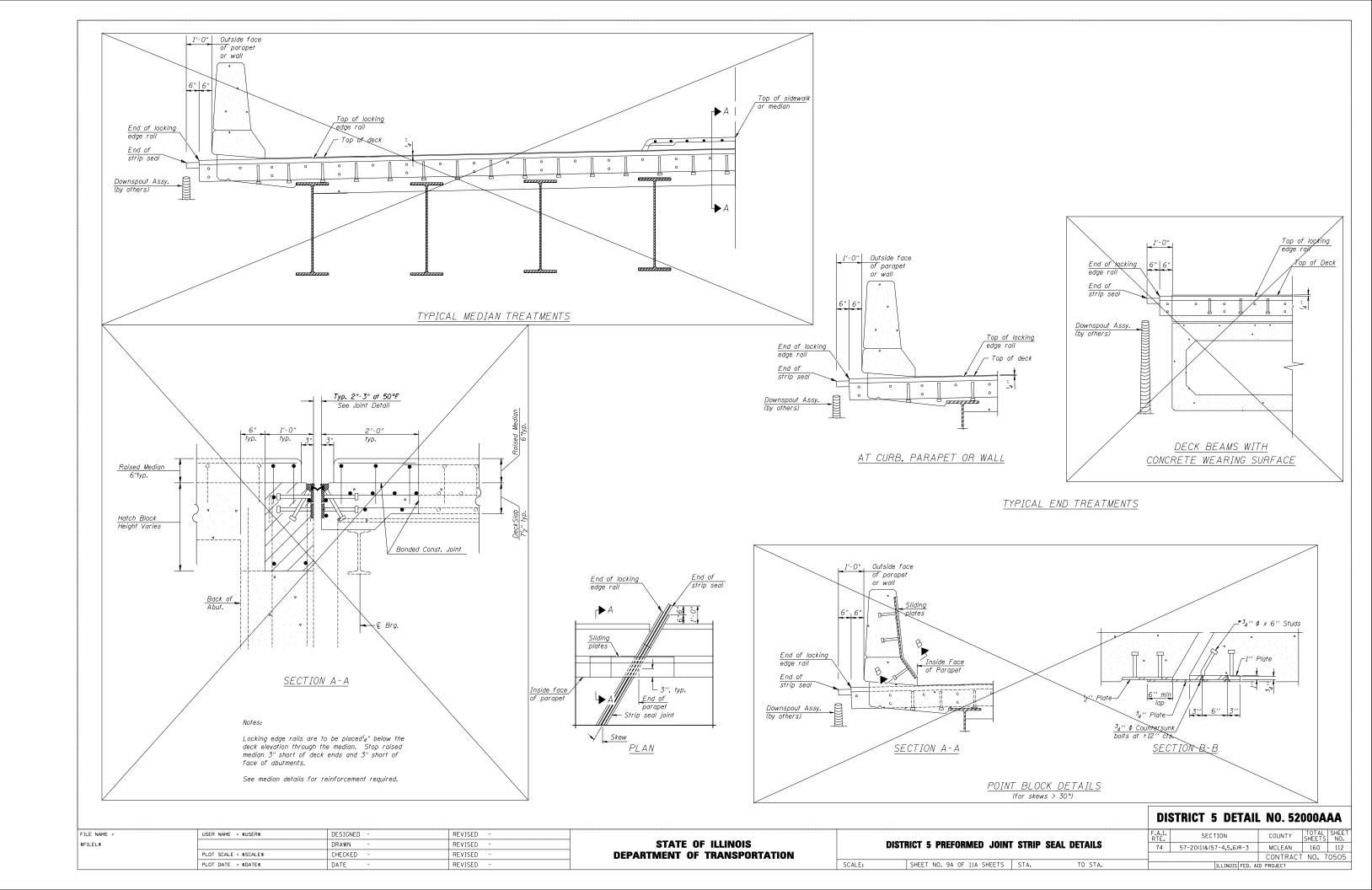
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PLOT SCALE = \$SCALE\$	CHECKED -		REVISED	-
PLOT DATE = \$DATE\$	DATE -		REVISED	-

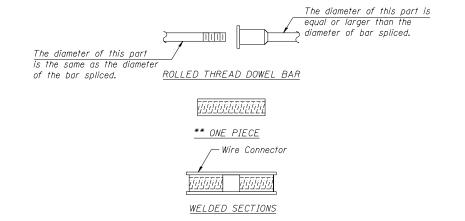
STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

	SUBSTRUCTURE DETAILS								
	057-0047 WEST	ABUTMENT & 0	57-0048 EAST	ABUTMENT					
SCALE:	SHEET NO	. 7A OF 11A SHEETS	STA.	TO STA.					

RTE.		SECTION					COUNTY	SHEETS	NO.
74	57-20(1)&(57-4,5,6)R-3					Т	MCLEAN	160	110
							CONTRACT	NO. 7	0505
FED. F	ROAD	DIST.	NO.	ILLINOIS	FED.	AIC	PROJECT		







BAR SPLICER ASSEMBLY ALTERNATIVES

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

Approach Slab

Threaded or Coil

Splicer Rods (E)

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

Bridge Deck

4'-0"

Threaded or Coil

Loop Couplers (E)

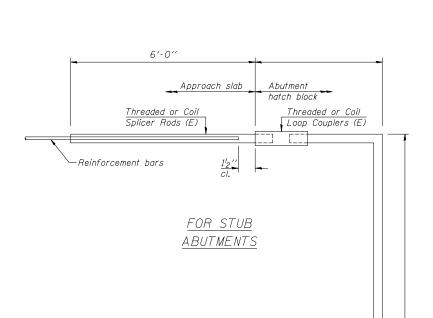
No. Required = N.A.

Reinforcement

←Stage Construction Line Template <u>"A "</u> Threaded or Coil Forms -Splicer Rods (E) -Foam Plugs Washer Face <u>"B"</u>

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

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) = $1.25 \times fy \times A_t$

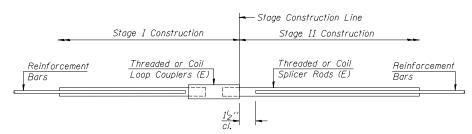
Minimum *Pull-out Strength = 0.66 x fy x A_t (Tension in kips)

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

A_t = Tensile stress area of lapped reinforcement bars.

* = 28 day concrete

BAR SPLICER ASSEMBLIES								
	0.11. 0.1	Strength Requirements						
Bar Size to be Spliced	Splicer Rod or Dowel Bar Length	Min. Capacity kips - tension	Min. Pull-Out Strength kips - tension					
#4	1′-8′′	14.7	7.9					
#5	2'-2''	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
#5	80	Deck Ends
#6	24	Approach Pav't.

BAR SPLICER ASSEMBLY DETAILS STRUCTURE NO. 057-0047 (EB) STRUCTURE NO. 057-0048 (WB)

BSD-1

10 - 1 - 08

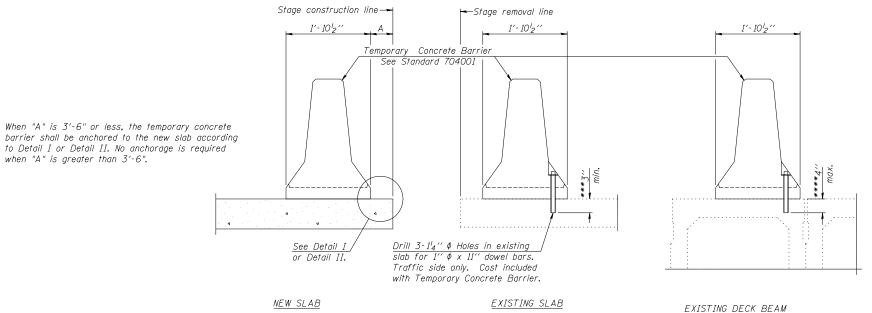
FILE NAME =	USER NAME = \$USER\$	DESIGNED -	REVISED -
\$FILEL\$		DRAWN -	REVISED -
	PLOT SCALE = \$SCALE\$	CHECKED -	REVISED -
	PLOT DATE = \$DATE\$	DATE -	REVISED -

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

SCALE:

 BAR SPLICER ASSEM	BLY DE	TAILS	F.A.I RTE.		SEC1	ION
S.N. 057-0047 (EB) & S.N. 057-0048 (WB)					57-20(1)&(5	7-4,5,
		(112)				
SHEET NO. 10A OF 11A SHEETS	STA.	TO STA.	FED.	ROAD	DIST. NO.	ILL INO

	F.A.I. RTE.	SECTIO	NC		COUNTY	TOTAL SHEETS	SHEET NO.
	74	57-20(1)&(57-	4,5,6)R-3		MCLEAN	160	113
					CONTRACT	NO. 7	0505
ı	FFD. RO	DAD DIST. NO. II	LINOIS FED.	AID	PROJECT		



NOTES

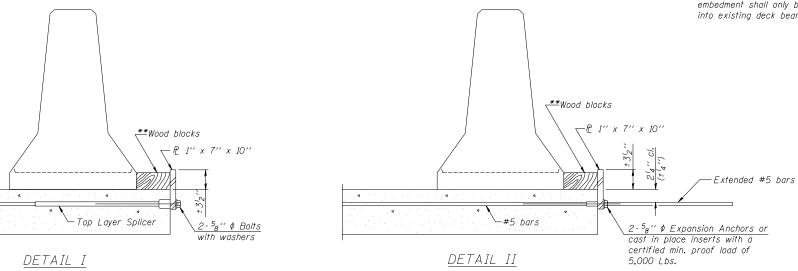
Detail I - With Bar Splicer or Couplers: Connect one (I) I''x7''x10'' steel P_L to the top layer of couplers with $2^{-5}g''$ ϕ bolts screwed to coupler at approximate © of each barrier panel.

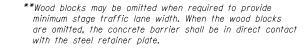
Detail II - With Extended Reinforcement Bars: Connect one (1) 1''x7''x 10'' steel R to the concrete slab or concrete wearing surface with $2^{-5}8'' \phi$ Expansion Anchors or cast in place inserts spaced between the top layer of reinforcement at approximate © of each barrier panel.

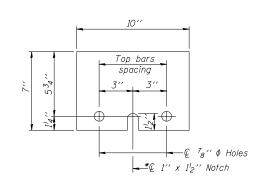
Cost of anchorage is included with Temporary Concrete Barrier. The 1" x 7" x 10" plate shall not be removed until stage II construction forms and all reinforcement bars are in place and the concrete is ready to be placed.

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.







STEEL RETAINER & 1" x 7" x 10"

* Required only with Detail II

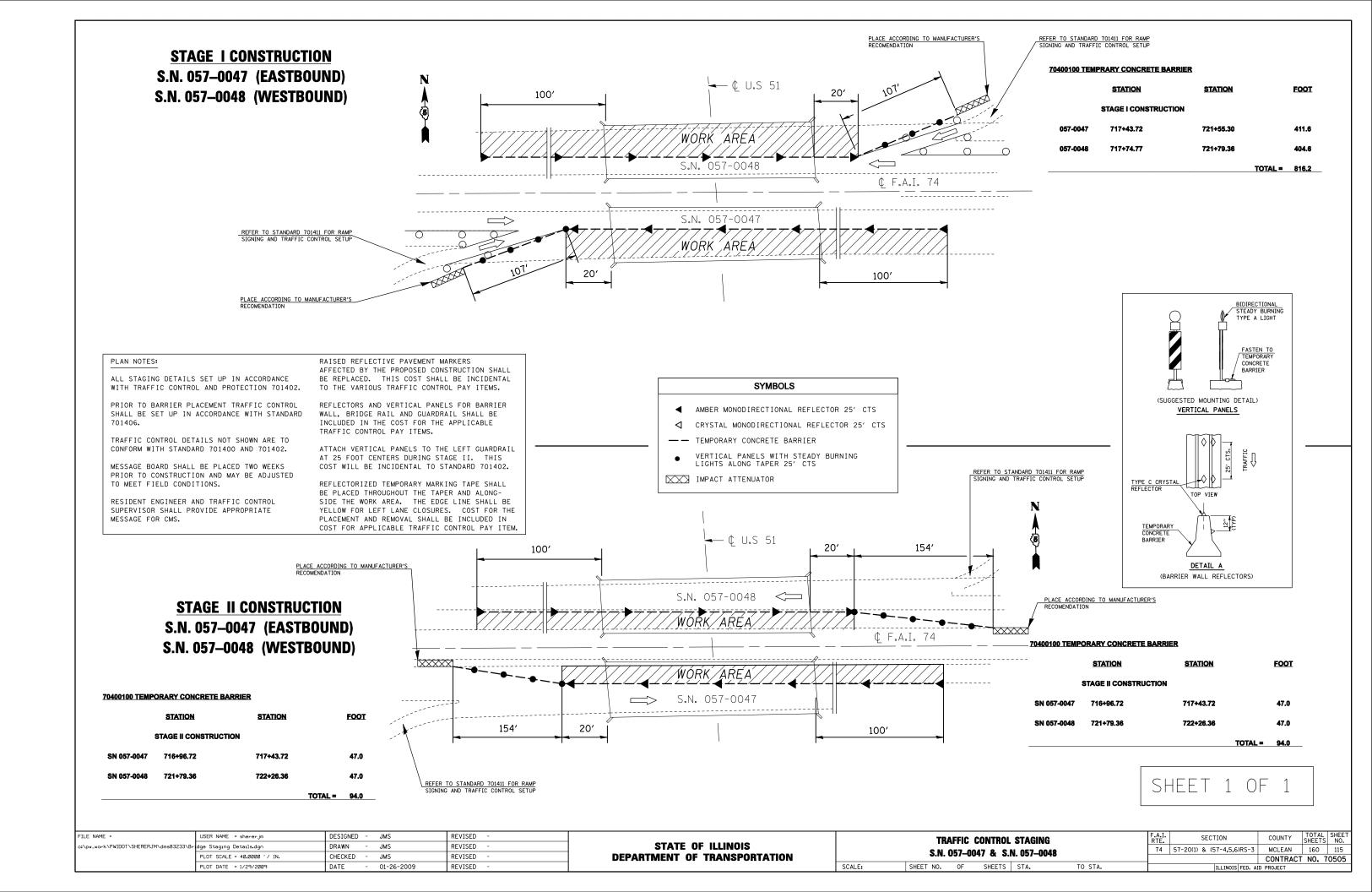
TEMPORARY CONCRETE BARRIER FOR STAGE CONSTRUCTION STRUCTURE NO. 057-0047 (EB) STRUCTURE NO. 057-0048 (WB)

R-27

10 - 1 - 08

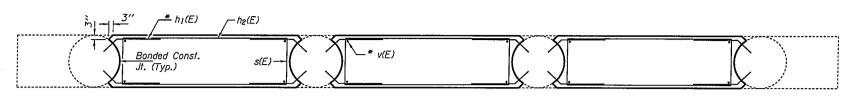
when "A" is greater than 3'-6".

FILE NAME =	USER NAME = \$USER\$	DESIGNED -	REVISED -		TFM	MPORARY CONCRETE BARRIER FOR STAGE CONSTRUCTION	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEET SHEETS NO.
\$FILEL\$		DRAWN -	REVISED -	STATE OF ILLINOIS			74	57-20(1)&(57-4,5,6)R-3	MCLEAN	160 114
	PLOT SCALE = \$SCALE\$	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION	S.N. 057-0047 (EB) & S.N. 057-0048 (WB)			•	CONTRAC.	T NO. 70505
	PLOT DATE = \$DATE\$	DATE -	REVISED -		SCALE:	SHEET NO. 11A OF 11A SHEETS STA. TO STA.	FED. F	ROAD DIST. NO. ILLINOIS FED. A	ID PROJECT	

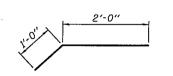


STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION GENERAL NOTES Reinforcement bars shall conform to the requirements of ASTM A 706 Gr 60. See Special Provisions. Reinforcement bars designated (E) shall be epoxy coated. Plan dimensions and details relative to existing plans are subject to nominal construction variations. The Contractor shall field verify existing dimensions and details affecting new construction 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 scope of the work, however, the * v(E) Bonded Const. Contractor will be paid for the quantity actually furnished at the unit price bid Jt. (Typ.) SECTION B-B 2'-8" BAR hi(E) A◀₁ BAR s(E) 3'-0" 3'-0" Typ.BAR V(E) * 2-#5 h₁(E) bars. Typ. each face. B 8-#5 s(E) bars equally spaced 7-#5 h(E) bars, spaced as shown in Sec. A-A Existing Bonded Const. Jt. (Typ.) shoulder * 8- #5 v(E) bars equally spaced - Each face-TIEIT A◀J ELEVATION SECTION A-A BILL OF MATERIAL Bar No. Size Length Shape CRASH WALL EXTENSION 21 #5 9'-10'' — 24 #5 3'-0'' / WEST PIER 4 INTERSTATE SAFETY 2007 24 #5 10'-1" DESIGNED Vie G. A. Veliz SN 057-0047 v(E) 48 #5 2'-10" TOTAL SHEET SHEETS NO. COUNTY SECTION Concrete Structures Cu. Yd. 8.0 * Epoxy grout $h_1(E)$ & v(E) bars in 9" min. SHEET NO. 1 holes according to Article 584 of the Reinforcement Bars, Pound 680 74 | 57-20(I) & (57-4,5-6)RS-3 MC LEAN | 160 | 116 CHECKED VIEW DAS Standard Specifications. Epoxy Coated EXPIRES 11-30-2010 4 SHEETS CONTRACT NO. 70505 FED. ROAD DIST. NO. | ILLINOIS FED. AID PROJECT

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION



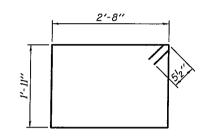
SECTION B-B



BAR h1(E)

See Special Provisions.

for the work.

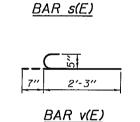


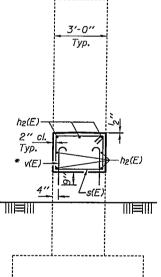
GENERAL NOTES Reinforcement bars shall conform to the requirements of ASTM A 706 Gr 60.

Reinforcement bars designated (E) shall be epoxy coated.
Plan dimensions and details relative to existing plans are subject to nominal construction variations. The Contractor shall field verify existing dimensions and details affecting new construction 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 scope of the work, however, the

Contractor will be paid for the quantity actually furnished at the unit price bid





SECTION A-A

$A \blacktriangleleft_1$ 3'-0" Тур. * 2-#5 h_I(E) bars. Typ. each face. ₹ B 7-#5 s(E) bars equally spaced 7-#5 h₂(E) bars, spaced as shown in Sec. A-A <u>Existing</u> _Bonded Const. Jt. (Typ.) shoulder * 7-#5 v(E) bars equally spaced Each face-

ELEVATION

RILL OF MATERIAL

	BILL OF MATERIAL									
Bar	No.	Size	Length	Shape						
h _I (E)	24	#5	3'-0"							
ha(E)	21	#5	9'-6"							
s(E)	21	#5	10'-1''							
v(E)	42	#5	2'-10"	_ل						
	e Struc		Cu. Yd.	7.7						
Reinfor Epoxy (cement Coated	Bars,	Pound	630						

Bar	No.	Size	Length	Shape
h ₁ (E)	24	#5	3'-0"	_
h ₂ (E)	21	#5	9'-6"	
s(E)	21	#5	10'-1"	
v(E)	42	#5	2'-10"	J
i				
Concret	e Struc	tures	Cu Yd	77

CRASH WALL EXTENSION EAST PIER 6 INTERSTATE SAFETY 2007 SN 057-0047

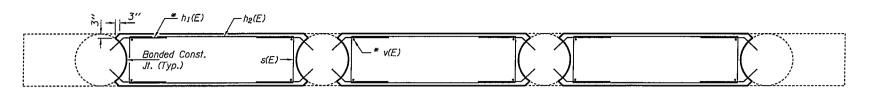
SHEET NO	F.A.I. SHEET NO. 2 RTE.		SEC	CTION	COUNTY	TOTAL	SHEE NO.	
31.221 140.2	74	57-20(I) & (57-4,5-6)RS-3			MC LEAN	160	117	
4 SHEET	rs					CONTRACT	NO. 70	505
		FED. RO	DAD DIST. NO.	ILLINOIS FE	ED. AI	D PROJECT		

DESIGNED	VHV	MARCH 3,
CHECKED	DAB	EXAMINED & Carl
DRAWN	baliva	PASSED Galph E. C
CHECKED	VHV DAB	ENGINEER OF BAIDCES A

* Epoxy grout h₁(E) & v(E) bars in 9" min. holes according to Article 584 of the Standard Specifications.

 $A \blacktriangleleft \downarrow$

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION



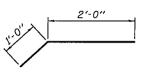
SECTION B-B

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

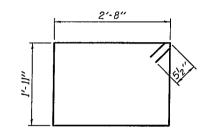
GENERAL NOTES

Reinforcement bars designated (E) shall be epoxy coated.

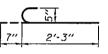
Plan dimensions and details relative to existing plans are subject to nominal construction variations. The Confractor shall field verify existing dimensions and details affecting new construction and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall not be cause for additional compensation for a change in scope of the work, however, the Contractor will be paid for the quantity actually furnished at the unit price bid



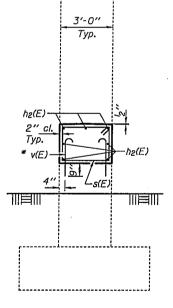
BAR h₁(E)



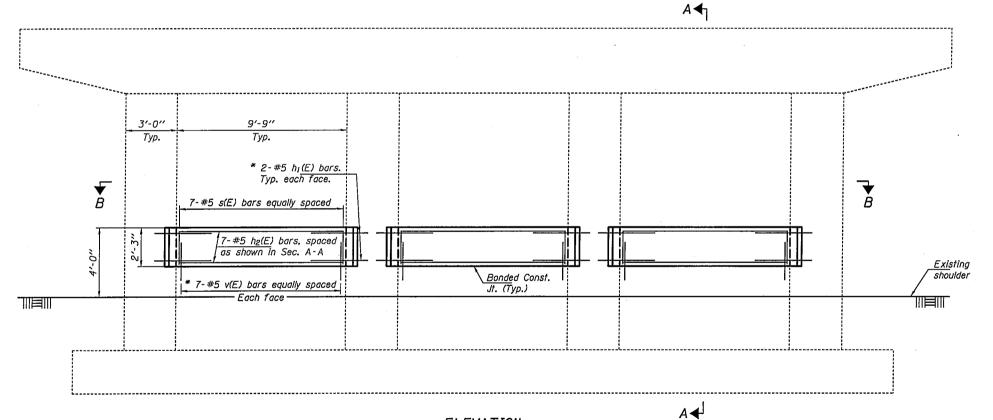




BAR V(E)



SECTION A-A



ELEVATION

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h _I (E)	24	#5	3'-0"	<i></i>
h ₂ (E)	21	#5	9'-6"	
s(E)	. 21	#5	10'-1''	
v(E)	42	#5	2'-10"	J
Concrete Structures			Cu. Yd.	7.7
Reinfor Epoxy	cement Coated	Bars,	Pound	630

CRASH WALL EXTENSION WEST PIER 1 INTERSTATE SAFETY 2007 SN 057-0048

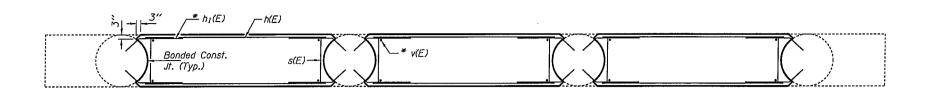
SHEET NO. 3	F.A.I. RTE.	SEC.	TION		COUNTY	TOTAL SHEETS	SHEET NO.
4 SHEETS 74 57-	57-20(I) & (57-4,5-6)RS-3			MC LEAN	160	118	
4 SHEETS					CONTRACT	NO. 70	505
	FED. RO	AD DIST. NO.	ILLINOIS FED.	ΑI	D PROJECT		

DESIGNED	VHV
CHECKED	DAB
DRAWN	baliva
CHECKED	VHV DAB

MARCH 3, 2009
EXAMINED & Carl Prayer
PASSED Reliker OF STRUCTURAL SERVICES PASSED Reliker OF STRUCTURAL SERVICES
ENGINEER OF BRIDGES AND STRUCTURES

* Epoxy grout $h_I(E)$ & v(E) bars in 9" min. holes according to Article 584 of the Standard Specifications.

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION



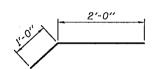
SECTION B-B

GENERAL NOTES

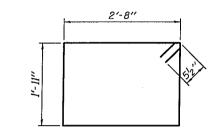
Reinforcement bars shall conform to the requirements of ASTM A 706 Gr 60. See Special Provisions.

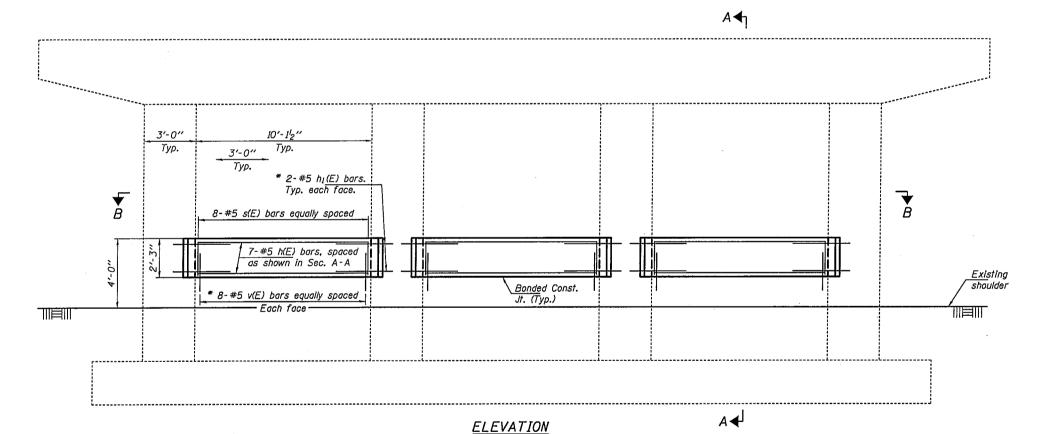
Reinforcement bars designated (E) shall be epoxy coated.

Plan dimensions and details relative to existing plans are subject to nominal construction variations. The Contractor shall field verify existing dimensions and details affecting new construction 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 scope of the work, however, the Contractor will be paid for the quantity actually furnished at the unit price bid for the work.



BAR h₁(E)





BAR S(E) 3'-0" Тур. BAR V(E)

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h(E)	21	#5	9'-10"	
h _I (E)	24	#5	3'-0"	
s(E)	24	#5	10'-1"	
v(E)	48	#5	2'-10"	
Concrete Structures		Cu. Yd.	8.0	
Reinforcement Bars, Epoxy Coated		Pound	680	

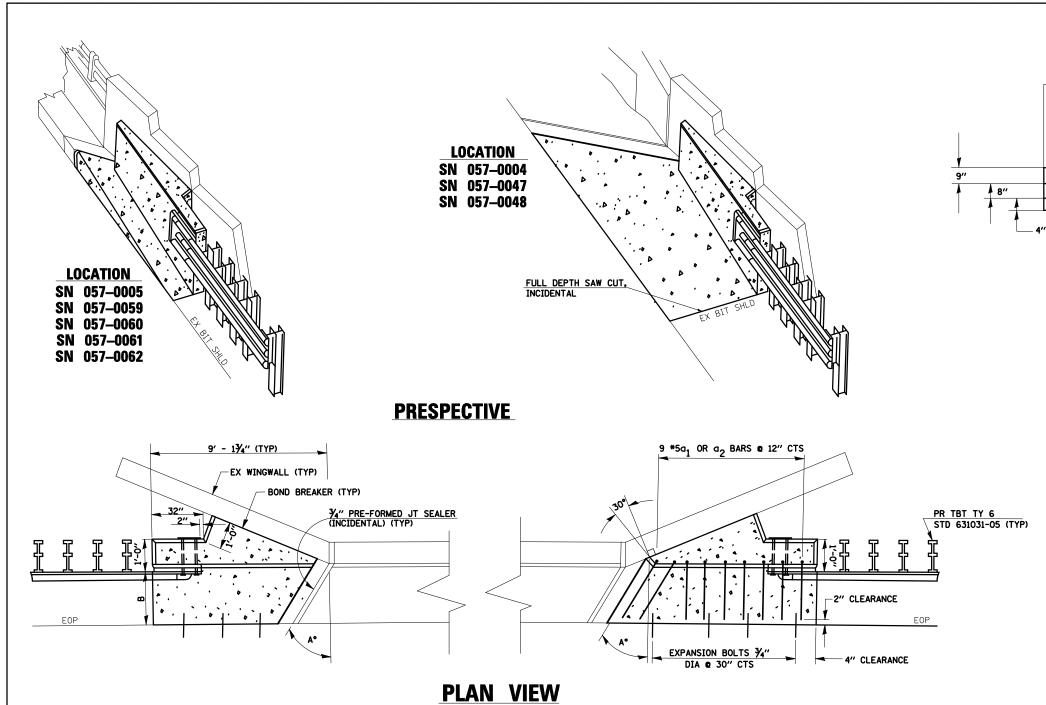
CRASH WALL EXTENSION EAST PIER 3 INTERSTATE SAFETY 2007 SN 057-0048

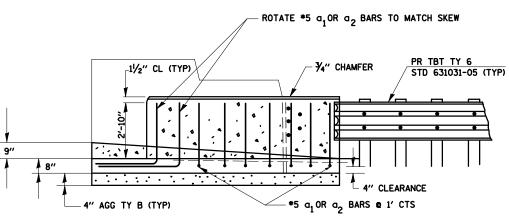
SHEET NO. 4	F.A.I. RTE.	SECTION	COUNTY	TOTAL	SHEE NO.
3/1221 140. 4	74	57-20(I) & (57-4,5-6)RS-3	MC LEAN	160	119
4 SHEETS		•	CONTRACT	NO. 70	505
	FED. RO	DAD DIST. NO. ILLINOIS FED. AI	D PROJECT		

SECTION A-A

DESIGNED	VHV	MARCH 3, 2009
CHECKED	DAB	EXAMINED & Carl Prayey
DRAWN	baliva	PASSED Ralph E. Curleus
CHECKED	VHV DAB	ENGINEER OF BRIDGES AND STRUCTURES

* Epoxy grout h1(E) & v(E) bars in 9" min. holes according to Article 584 of the Standard Specifications.





ELEVATION SHOWING REINFORCEMENT

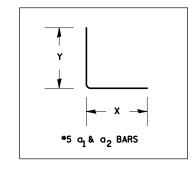
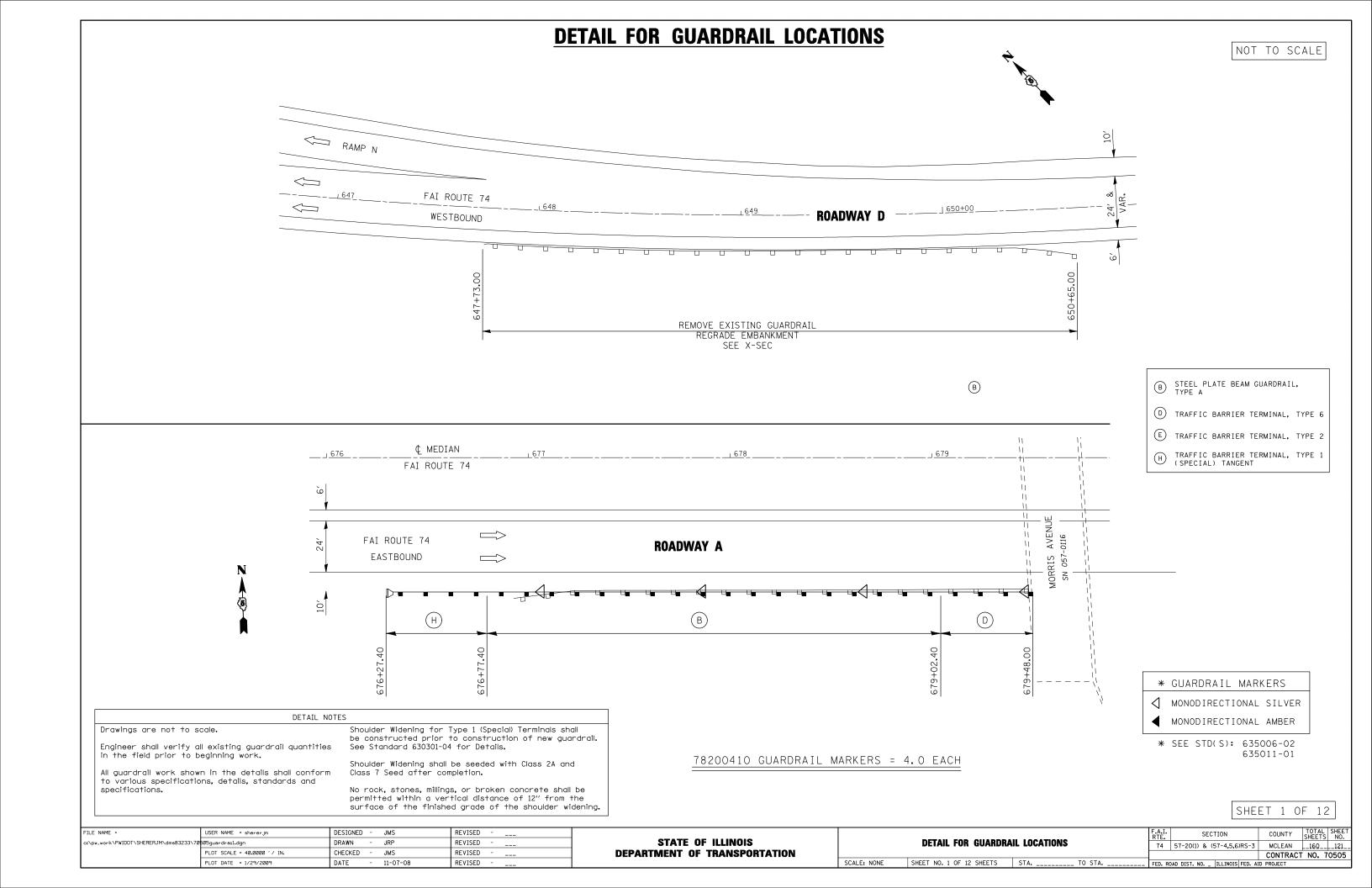


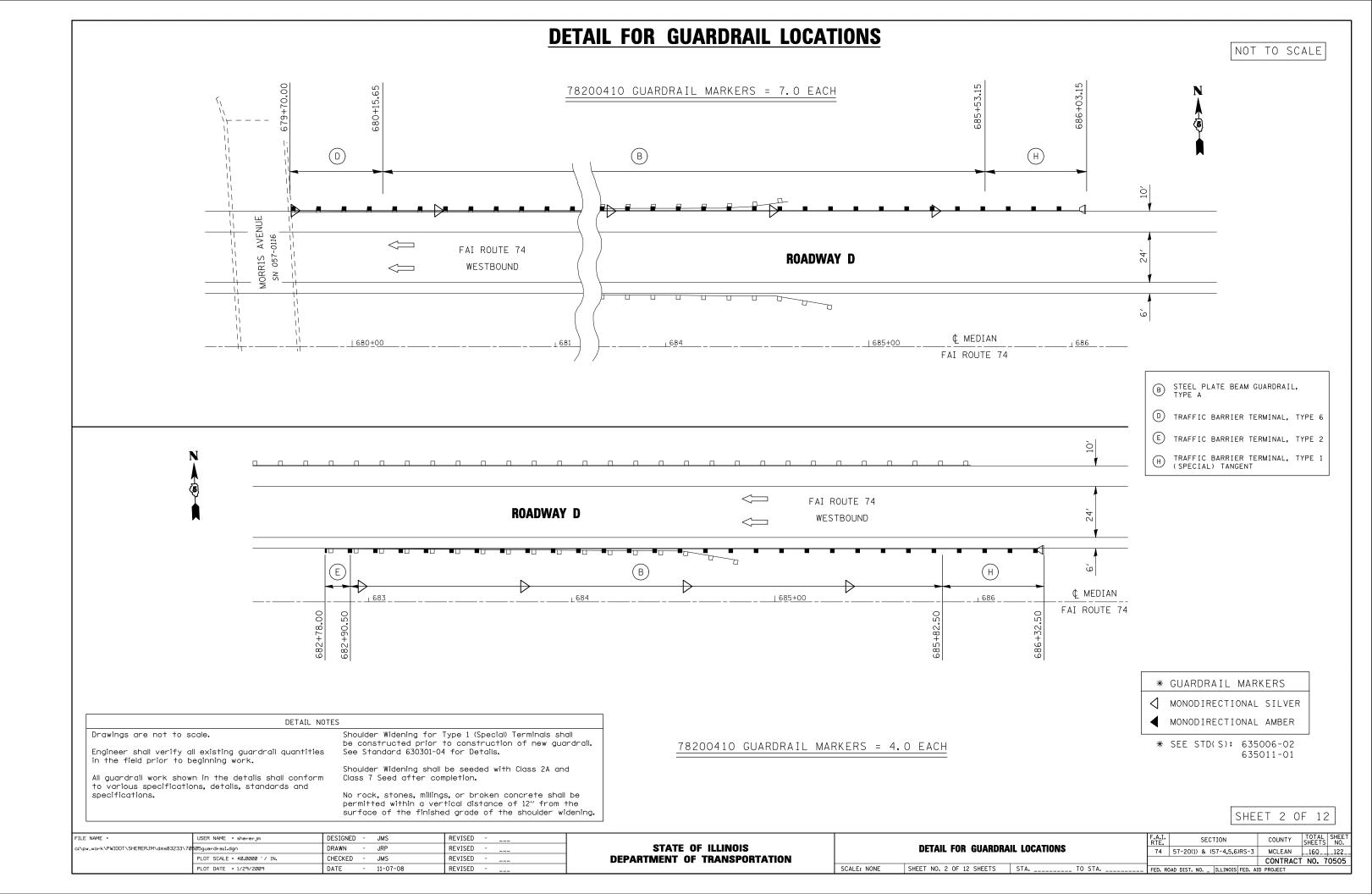
TABLE OF DIMENSIONS								
(A) (B) REINFORCEMENT BARS								
LOCATION	SKEW	BASE	BAR SIZE DIMENSION D		DIMENSION			
	ANGLE	WIDTH	DAR	SIZE X		Y		
SN 057-0047	1°-55′-06.83′′	4'-3''	a2	#5	4'-3''	2'-10''		
SN 057-0048	1°-55′-06.83′′	4'-3''	a2	#5	4'-3''	2'-10''		
SN 057-0059	4°-01′-50′′	1'-10''	a1	#5	1'-10''	2'-10''		
SN 057-0062	58°-48′-30′′	1'-10''	a1	#5	1'-10''	2'-10''		

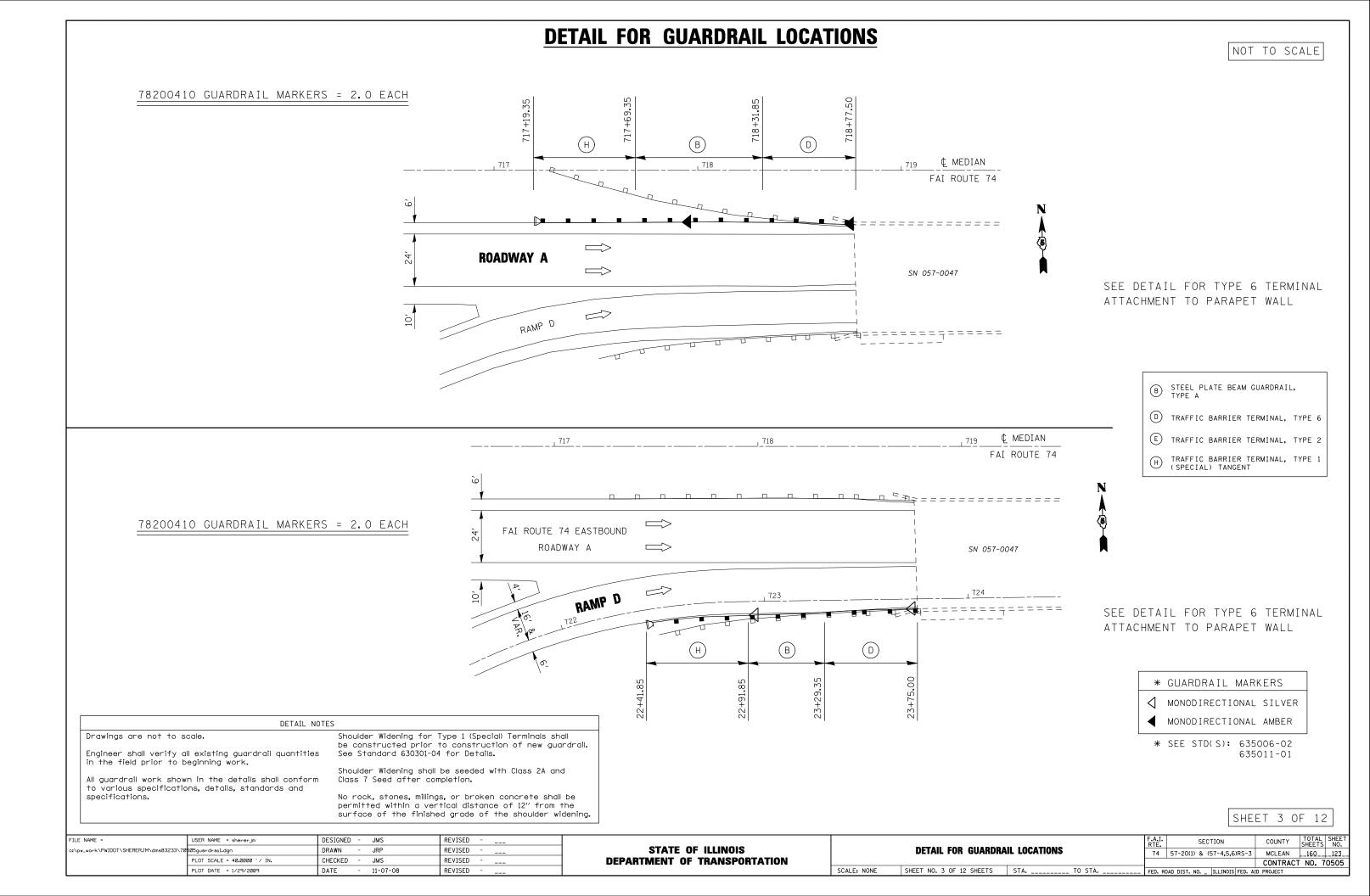
TOTAL BILL OF MATERIALS									
ITEM	UNIT	057-0047	** 057-0048	057-0059	057-0062	TOTAL			
BITUMINOUS SHOULDER REMOVAL	SQ YD	18	13	5	5	41			
REINFORCEMENT BARS, EPOXY COATED	PDS	270	200	176	176	822			
AGGREGATE BASE COURSE TYPE B	TON	5.2	4	2.1	2.1	13.4			
EXPANSIONS BOLTS 3/4"	EACH	16	12	16	16	60			
CONCRETE SUPERS-TRUCTURE	CU YD	13.3	10	7	7	37.3			

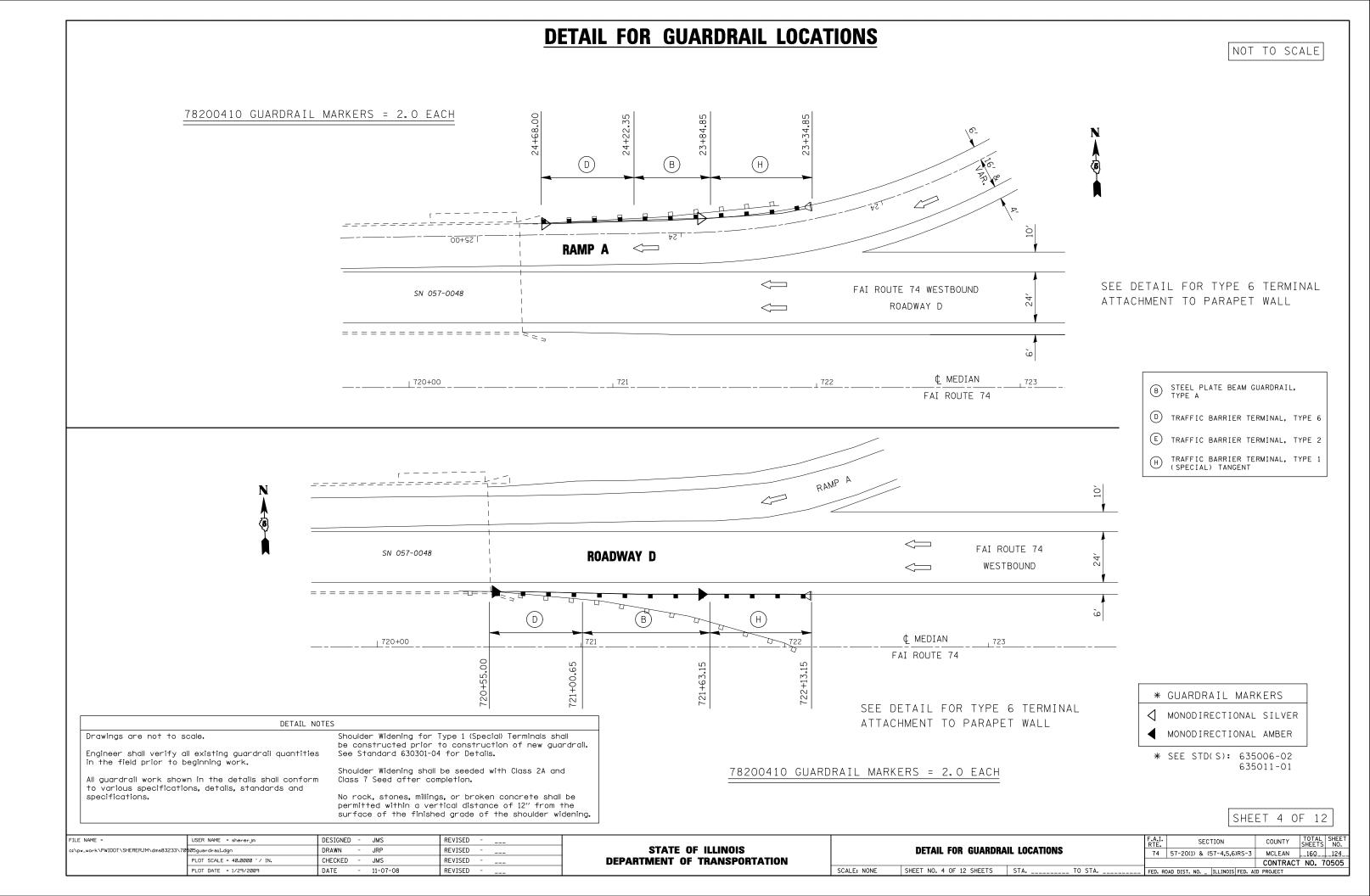
NOTE: ** NE QUADRANT OF SN 057-0048 IS COMPLETE, NO WORK NEEDED IN THIS QUADRANT.

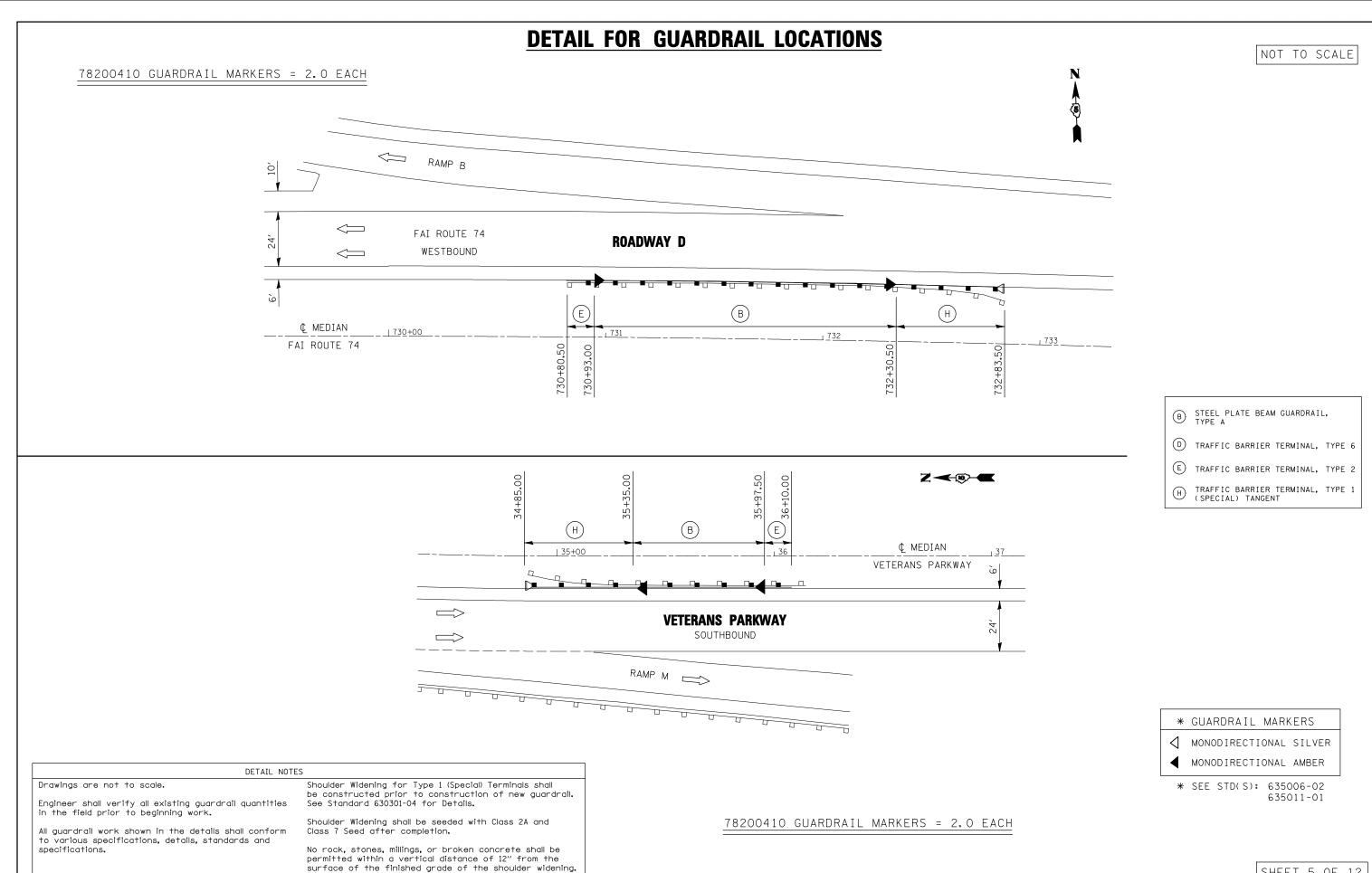
FILE NAME =	USER NAME = shererjm	DESIGNED - JMS	REVISED -		DETAIL FOR TYPE 6 TERMINAL ATTACHMENT	F.A.P. SECTION	COUNTY TOTAL SHEET
c:\pw_work\PWIDOT\SHERERJM\dms83233\70	005details.dgn	DRAWN - JMS	REVISED -	STATE OF ILLINOIS	TO PARAPET WALL	74 57-20(1)&(57-4.5.6)RS-3	MCLEAN 160 120
	PLOT SCALE = 100.00000 '/ IN.	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION	IU FARAFEI WALL		CONTRACT NO. 70505
	PLOT DATE = 1/29/2009	DATE - 6/03/2008	REVISED -		SCALE: NO SCALE SHEET NO. OF SHEETS STA. TO STA.	FED. ROAD DIST. NO. ILLINOIS FED. AI	D PROJECT





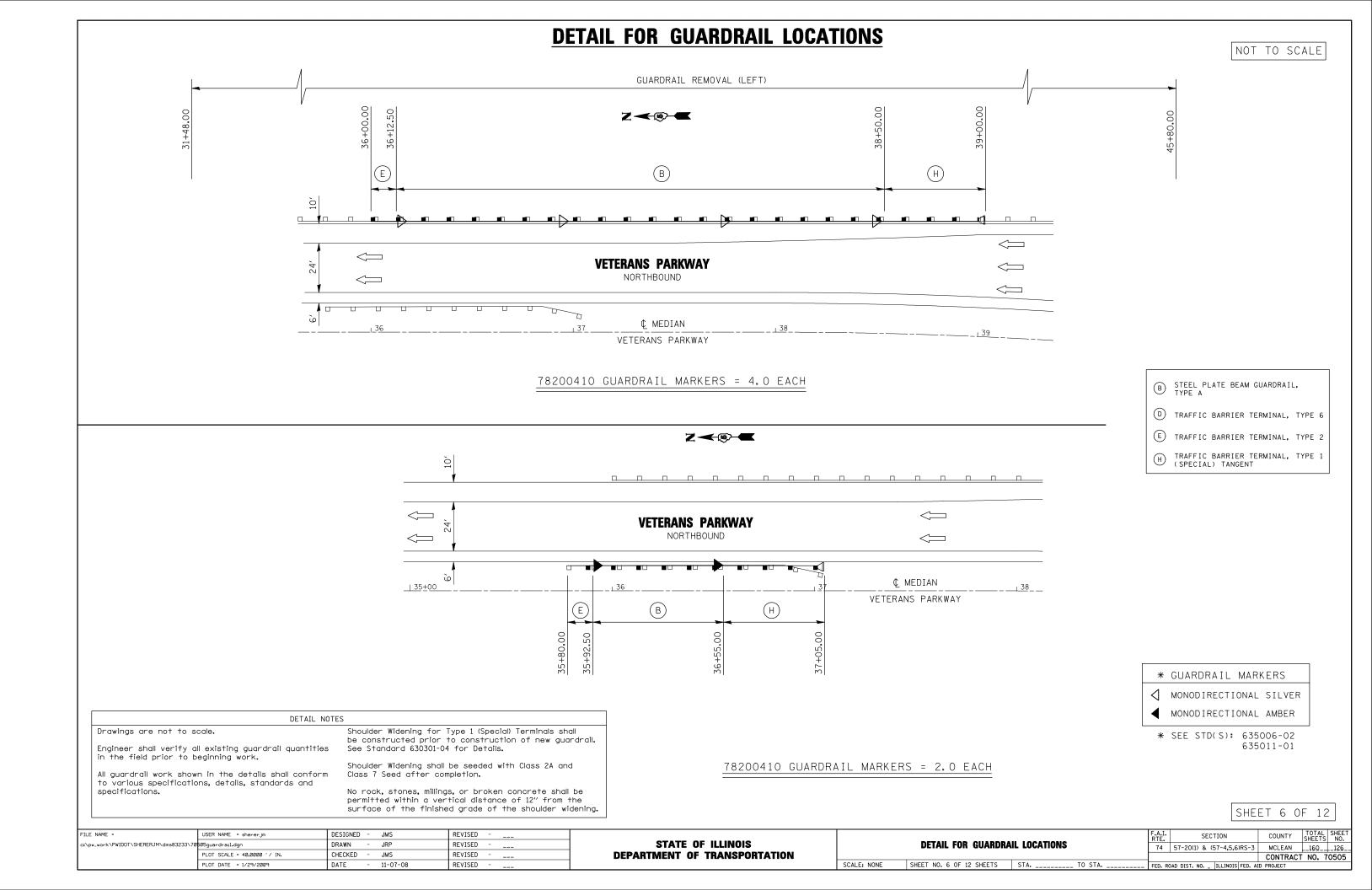






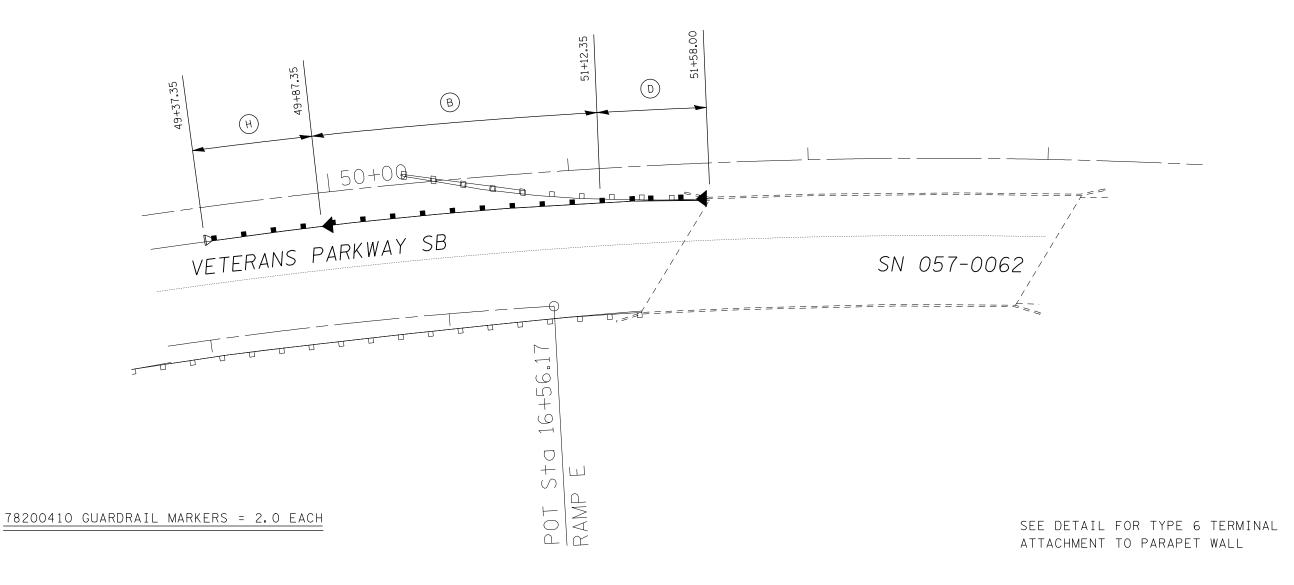
SHEET 5 OF 12

FILE NAME =	USER NAME = shererjm	DESIGNED - JMS	REVISED			F.A.I. SECTION	COUNTY TOTAL SHEET
c:\pw_work\PWIDOT\SHERERJM\dms8323	3\70505guardrail.dgn	DRAWN - JRP	REVISED	STATE OF ILLINOIS	DETAIL FOR GUARDRAIL LOCATIONS	74 57-20(1) & (57-4.5.6)RS-3	MCLEAN160125
	PLOT SCALE = 40.0000 '/ IN.	CHECKED - JMS	REVISED	DEPARTMENT OF TRANSPORTATION			CONTRACT NO. 70505
	PLOT DATE = 1/29/2009	DATE - 11-07-08	REVISED		SCALE: NONE SHEET NO. 5 OF 12 SHEETS STA TO STA	FED. ROAD DIST. NO. ILLINOIS FED. AI	D PROJECT



DETAIL FOR GUARDRAIL LOCATIONS

NOT TO SCALE



DETAIL NOTES

Drawings are not to scale.

Engineer shall verify all existing guardrail quantities in the field prior to beginning work.

All guardrail work shown in the details shall conform to various specifications, details, standards and specifications.

Shoulder Widening for Type 1 (Special) Terminals shall be constructed prior to construction of new guardrail. See Standard 630301-04 for Details.

Shoulder Widening shall be seeded with Class 2A and Class 7 Seed after completion.

No rock, stones, millings, or broken concrete shall be permitted within a vertical distance of 12" from the surface of the finished grade of the shoulder widening.

- * GUARDRAIL MARKERS
- MONODIRECTIONAL AMBER
- * SEE STD(S): 635006-02 635011-01

B STEEL PLATE BEAM GUARDRAIL,

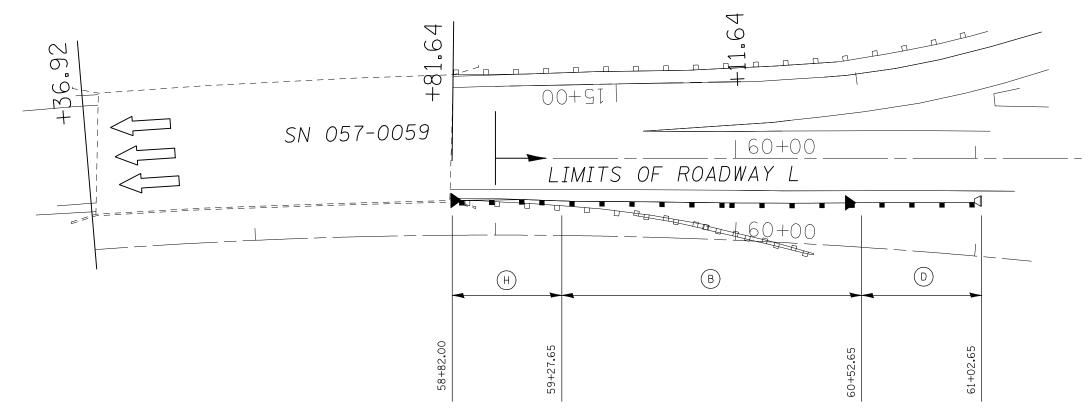
- D TRAFFIC BARRIER TERMINAL, TYPE 6
- E TRAFFIC BARRIER TERMINAL, TYPE 2
- H TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT

SHEET 7 OF 12

	PLOT DATE = 1/29/2009	DATE - 11-07-08	REVISED		SCALE: NONE	SHEET NO. 7 OF 12 SHEETS STA TO STA	FED. ROAD	D DIST, NO ILLINOIS FED, AIL		
	PLOT SCALE = 40,0000 '/ IN.	CHECKED - JMS	REVISED	DEPARTMENT OF TRANSPORTATION					CONTRAC	CT NO. 70505
c:\pw_work\PWIDOT\SHERERJM\dms83233\70	05guardra11.dgn	DRAWN - JRP	REVISED	STATE OF ILLINOIS		DETAIL FOR GUARDRAIL LOCATIONS	74 5	57-20(1) & (57-4,5,6)RS-3	MCLEAN	160 127
FILE NAME =	USER NAME = shererjm	DESIGNED - JMS	REVISED				F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEET

DETAIL FOR GUARDRAIL LOCATIONS

NOT TO SCALE



78200410 GUARDRAIL MARKERS = 2.0 EACH

DETAIL NOTES

Drawings are not to scale.

Engineer shall verify all existing guardrail quantities in the field prior to beginning work.

All guardrail work shown in the details shall conform to various specifications, details, standards and specifications.

Shoulder Widening for Type 1 (Special) Terminals shall be constructed prior to construction of new guardrail. See Standard 630301-04 for Details.

Shoulder Widening shall be seeded with Class 2A and Class 7 Seed after completion.

No rock, stones, millings, or broken concrete shall be permitted within a vertical distance of 12" from the surface of the finished grade of the shoulder widening.

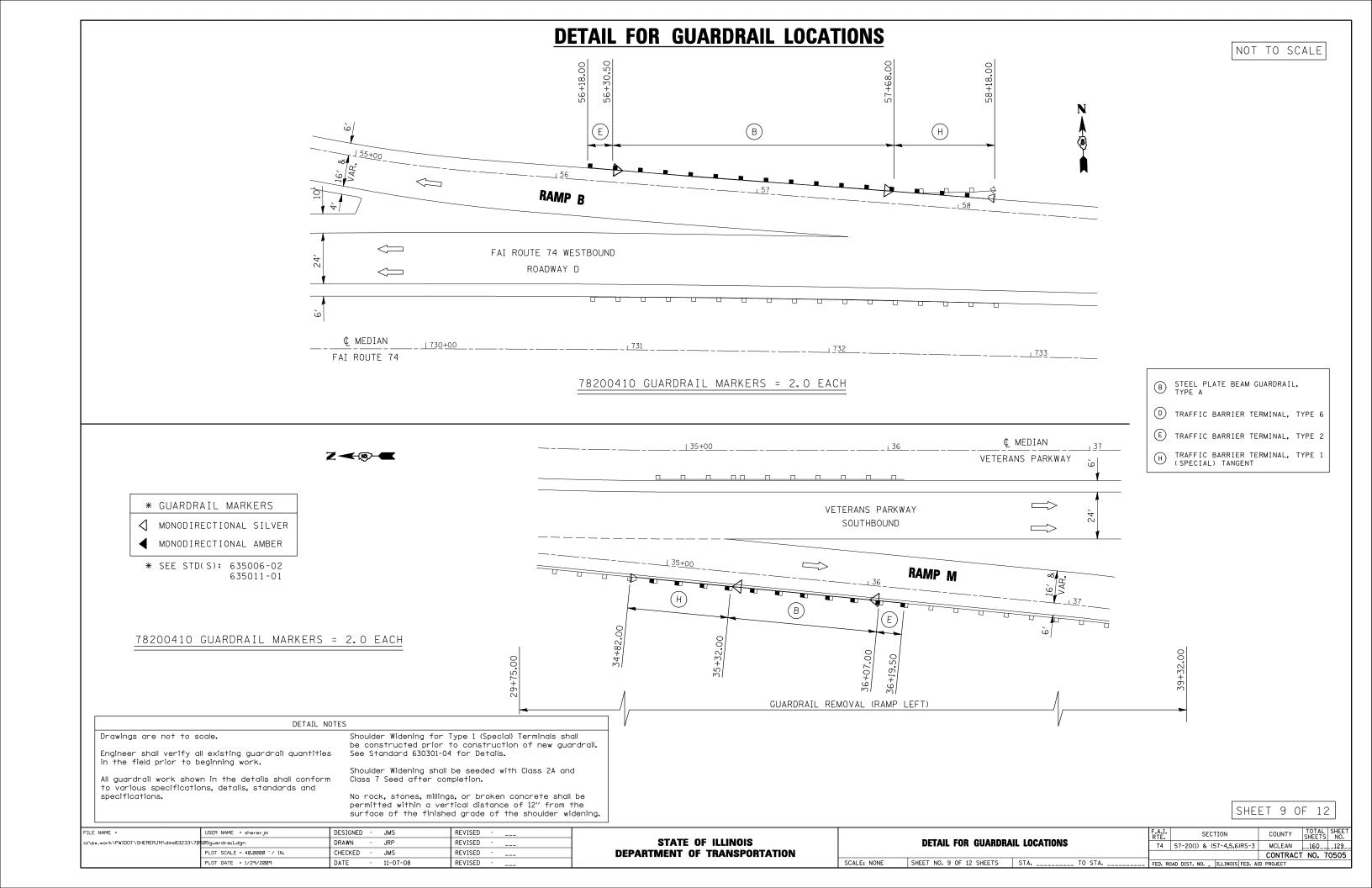
SEE DETAIL FOR TYPE 6 TERMINAL ATTACHMENT TO PARAPET WALL

- * GUARDRAIL MARKERS
- ✓ MONODIRECTIONAL SILVER
- MONODIRECTIONAL AMBER
- * SEE STD(S): 635006-02 635011-01

- B STEEL PLATE BEAM GUARDRAIL,
- D TRAFFIC BARRIER TERMINAL, TYPE 6
- E TRAFFIC BARRIER TERMINAL, TYPE 2
- H TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT

SHEET 8 OF 12

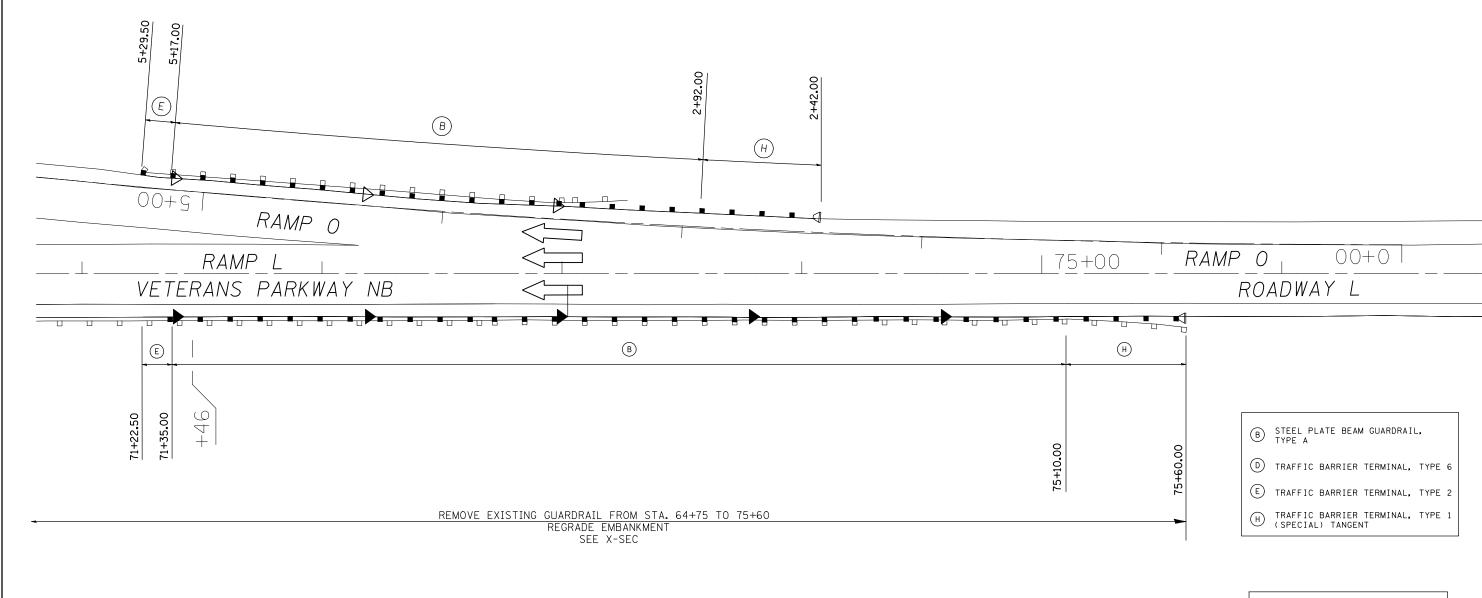
FILE NAME =	USER NAME = shererjm	DESIGNED - JMS	REVISED			F.A.I. SECTION COUNTY TOTAL SHEET
c:\pw_work\PWIDOT\SHERERJM\dms83233\70	05guardraıl.dgn	DRAWN - JRP	REVISED	STATE OF ILLINOIS	DETAIL FOR GUARDRAIL LOCATIONS	74 57-20(1) & (57-4.5.6)RS-3 MCLEAN 160 128
	PLOT SCALE = 40.00000 '/ IN.	CHECKED - JMS	REVISED	DEPARTMENT OF TRANSPORTATION		CONTRACT NO. 70505
	PLOT DATE = 1/29/2009	DATE - 11-07-08	REVISED		SCALE: NONE SHEET NO. 8 OF 12 SHEETS STA TO STA	FED. ROAD DIST. NO ILLINOIS FED. AID PROJECT



DETAIL FOR GUARDRAIL LOCATIONS

NOT TO SCALE

78200410 GUARDRAIL MARKERS = 3.0 EACH



DETAIL NOTES

Drawings are not to scale.

Engineer shall verify all existing guardrail quantities in the field prior to beginning work.

All guardrail work shown in the details shall conform to various specifications, details, standards and specifications.

Shoulder Widening for Type 1 (Special) Terminals shall be constructed prior to construction of new guardrail. See Standard 630301-04 for Details.

Shoulder Widening shall be seeded with Class 2A and Class 7 Seed after completion.

No rock, stones, millings, or broken concrete shall be permitted within a vertical distance of 12" from the surface of the finished grade of the shoulder widening.

* GUARDRAIL MARKERS

 \triangleleft MONODIRECTIONAL SILVER

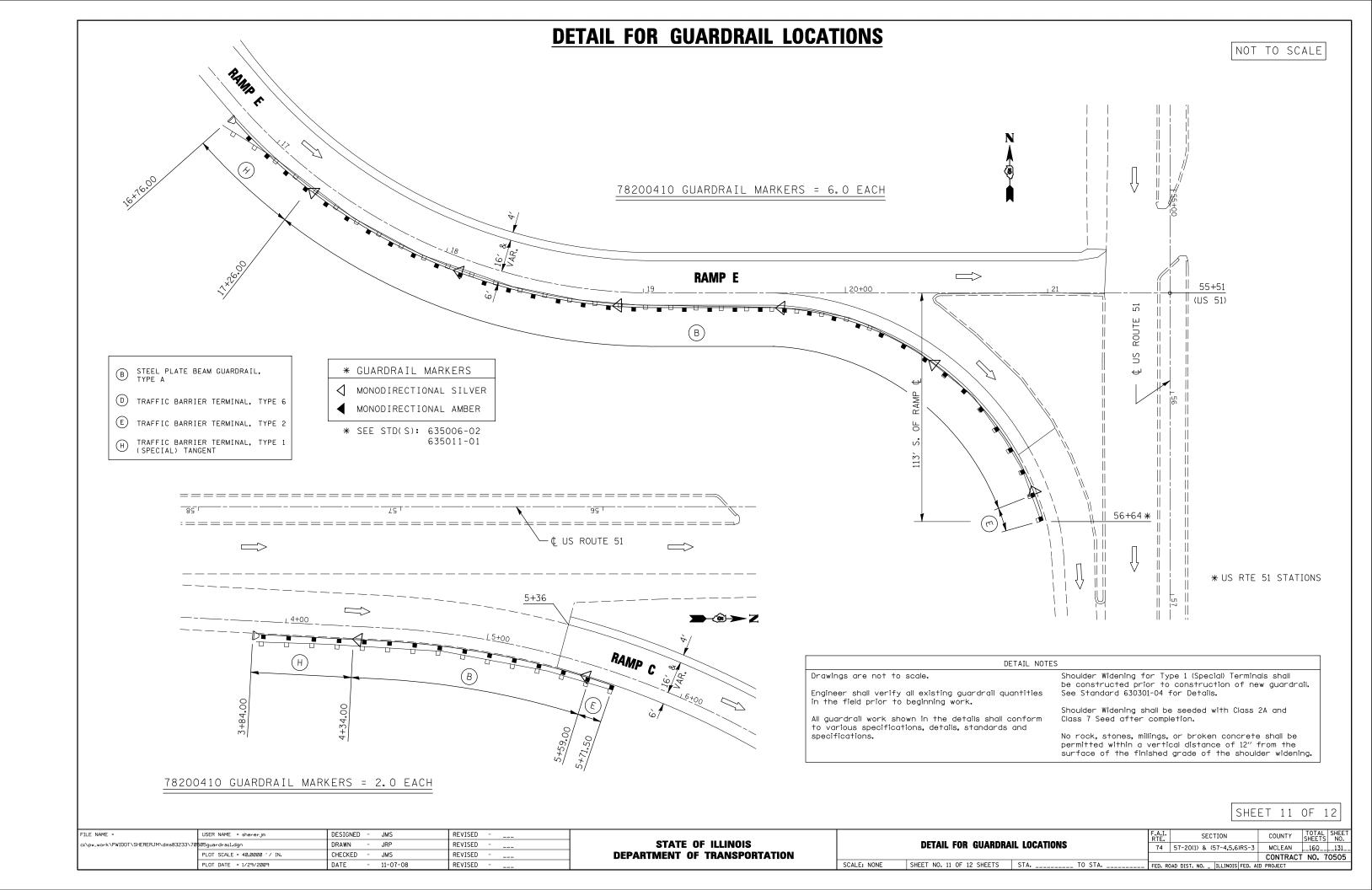
■ MONODIRECTIONAL AMBER

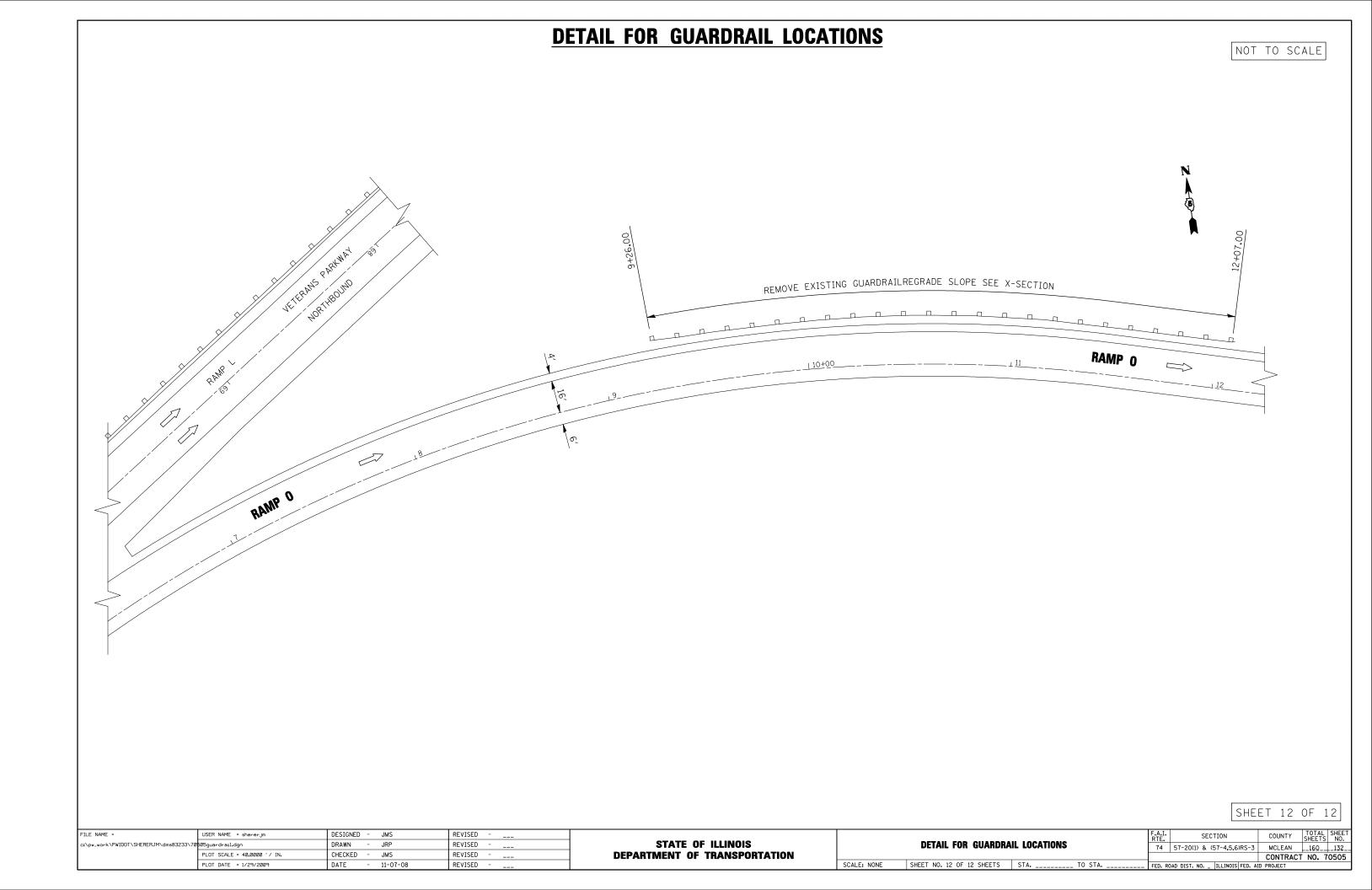
* SEE STD(S): 635006-02 635011-01

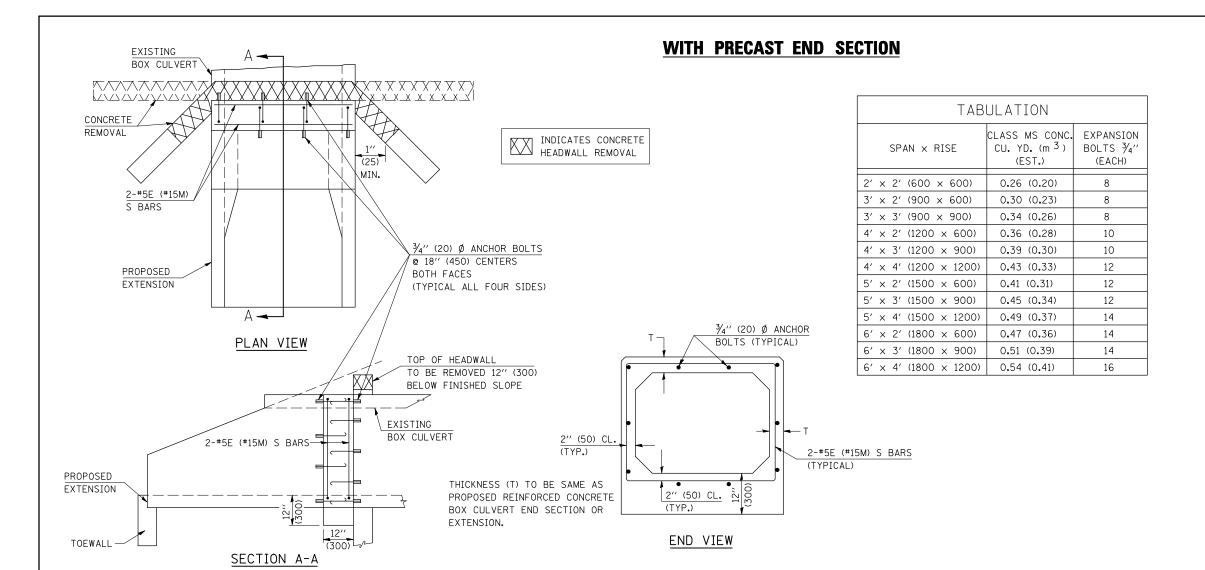
SHEET 10 OF 12

FILE NAME =	USER NAME = shererjm	DESIGNED - JMS	REVISED					F.A.I.	SECTION	COUNTY	SHEETS NO
c:\pw_work\PWIDOT\SHERERJM\dms83233\705	iØ5guardraıl.dgn	DRAWN - JRP	REVISED	STATE OF ILLINOIS		DETAIL FOR GUARDRA	IL LOCATIONS	74 57-20(1) & (57-4.5.6)RS-3	MCLEAN	160 130
	PLOT SCALE = 40.0000 '/ IN.	CHECKED - JMS	REVISED	DEPARTMENT OF TRANSPORTATION						CONTRACT	T NO. 70505
	PLOT DATE = 1/29/2009	DATE - 11-07-08	REVISED		SCALE: NONE	SHEET NO. 10 OF 12 SHEETS	STA TO STA	FED. ROAD DIST.	NO ILLINOIS FED. A	ID PROJECT	

78200410 GUARDRAIL MARKERS = 5.0 EACH



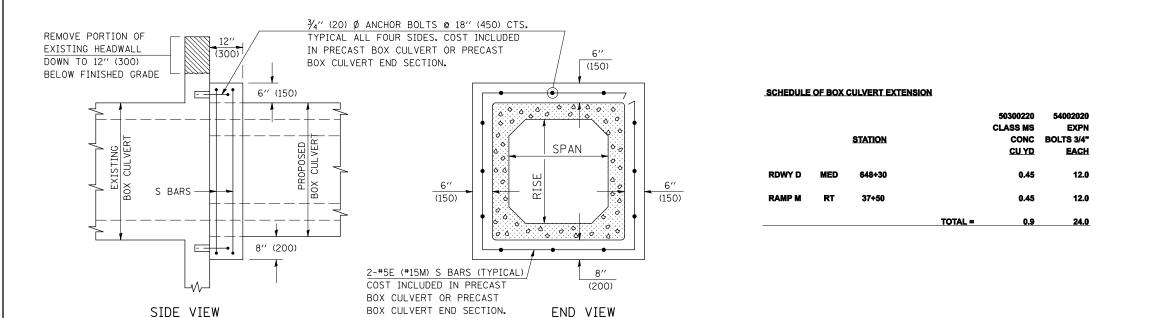




GENERAL NOTES

- ANCHOR BOLTS, MEETING THE REQUIREMENTS OF ARTICLE 1006.09 OF THE STANDARD SPECIFICATIONS, SHALL EXTEND A MINIMUM OF 9" (225 mm) INTO THE NEW CONCRETE.
- 2. REINFORCEMENT BARS SHALL MEET THE REQUIREMENTS OF ARTICLE 1006.10 OF THE STANDARD SPECIFICATIONS.
- 3. CLASS SI CONCRETE SHALL BE USED THROUGHOUT.
- 4. THE PRECAST END SECTION WILL BE PAID FOR AT THE CONTRACT UNIT PRICE EACH FOR BOX CULVERT END SECTIONS OF THE CULVERT NUMBER SPECIFIED WHICH PRICE SHALL INCLUDE THE CONCRETE COLLAR, ANCHOR BOLTS, REINFORCEMENT AND TOEWALL IF ANY.
- 5. ANY PRECAST BOX CULVERT BARREL SECTIONS PLACED AS PART OF THE EXTENSION WILL BE IN ACCORDANCE WITH APPLICABLE PORTIONS OF SECTION 540 OF THE SPECIFICATIONS EXCEPT THAT END SECTIONS WILL BE PAID FOR AS STATED ABOVE.

WITH PRECAST BOX CULVERT

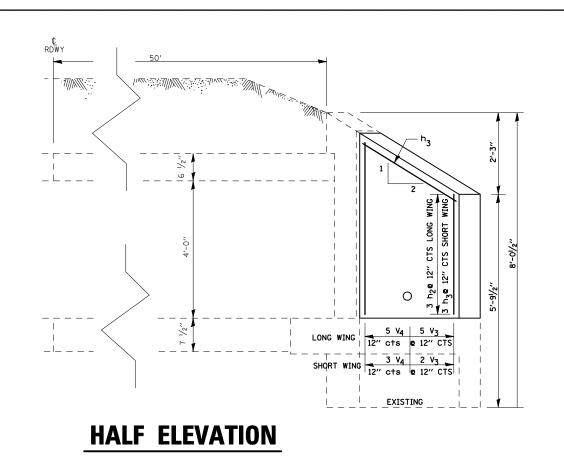


GENERAL NOTES

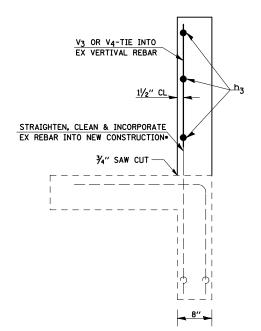
- 1. THIS WORK SHALL BE IN ACCORDANCE WITH THE APPLICABLE PORTIONS OF SECTIONS 503 AND 540 OF THE STANDARD SPECIFICATIONS, EXCEPT THAT WHEN PRECAST END SECTIONS ARE USED, THE CONCRETE COLLAR, EXPANSION BOLTS, AND REINFORCEMENT BARS SHOWN ON THIS DETAIL SHALL BE INCLUDED IN THE PAY ITEM FOR BOX CULVERT END SECTIONS.
- 2. WHEN CAST-IN-PLACE END SECTIONS ARE USED, THE VARIOUS ITEMS FOR CONCRETE BOX CULVERTS, REINFORCEMENT BARS, AND EXPANSION BOLTS WILL BE COMPUTED AND INCLUDED IN THE PLAN QUANTITIES FOR THESE PAY ITEMS.

Note: All dimensions are in INCHES (millimeters) unless otherwise shown.

			=				DISTRICT 5 DETAIL	. NO. 5400AAAA
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c:\pw_work\PWIDOT\SHERERJM\dms83233\70	7505details.dgn	DRAWN -	REVISED -	STATE OF ILLINOIS		BOX CULVERT EXTENSION	74 57-20(1) & (57-4,5,6)RS-3	MCLEAN 160 133
	PLOT SCALE = 40.0000 '/ IN.	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION			1	CONTRACT NO. 70505
	PLOT DATE = 2/3/2009	DATE -	REVISED -		SCALE:	SHEET NO. OF SHEETS STA. TO STA.	FED. ROAD DIST. NO. ILLINOIS FED. A	AID PROJECT

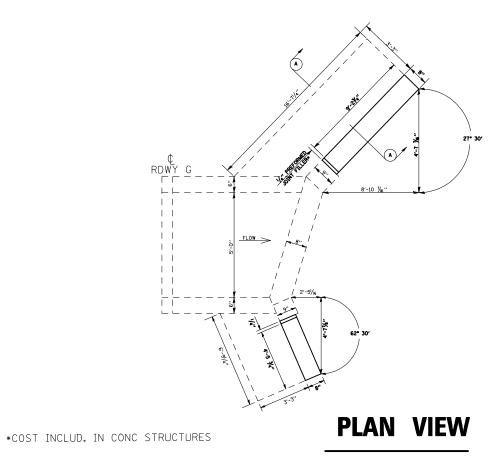


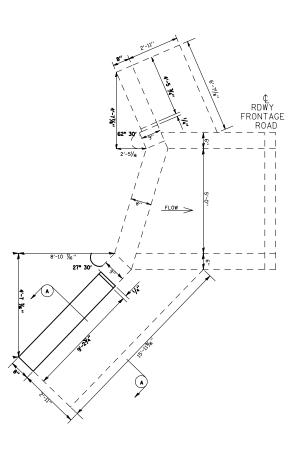




SECTION A-A

В	ILL OF	MATER	RIAL
BAR	NO	SIZE	LENGTH
h2	4	No. 4	4'-3''
h3	8	No. 4	9'-0''
V3	12	No. 4	2'-9''
V4	13	No. 4	4'-3''
CONCRETE	REMOVAL		2.2 cu yd
CONCRETE	STRUCTUR	E	2.2 cu yd
REINFORC	EMENT REB.	ARS	118 lbs



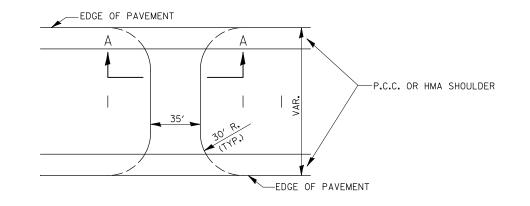


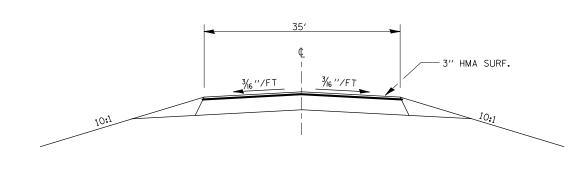
WORK TO INCLUDE REPAIR TO BOTH EAST WINDWALLS FOR BOX CULVERT UNDER RDWY G AND FOR LONG WINGWALL (WEST END) UNDER FRONTAGE ROAD

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	PLOT SCALE = 100.0000 '/ IN.	CHECKED -		REVISED -	
	PLOT DATE = 1/29/2009	DATE -	6/03/2008	REVISED -	

STATE O	F ILLINOIS
DEPARTMENT OF	TRANSPORTATION

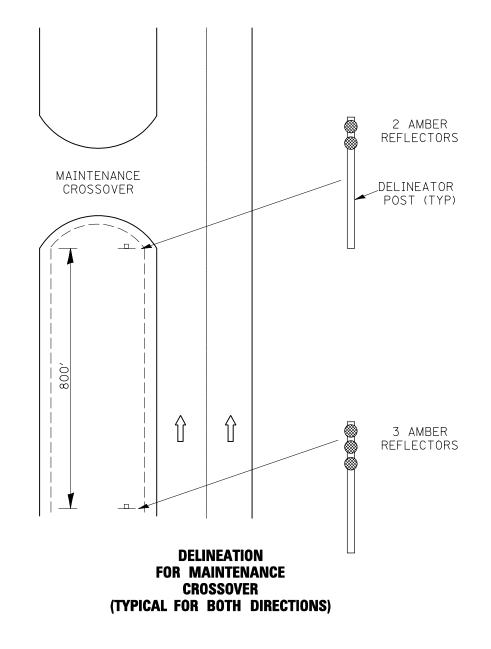
DETAIL FOR WINGWALL REPAIRS	F.A.P. RTE.	SECTION	COUNTY	TOTAL SH SHEETS N	NO.
STA. 633+65 RDWY G & STA. 30+81 (FRONTAGE ROAD)	74	57-20(1)&(57-4,5,6)RS-3	MCLEAN	160 13	34
OTAL COOT OF HISTOT C. C. OTAL CO. T. I. HORITAGE HOAD			CONTRAC	T NO. 705	05
SCALE: NO SCALE SHEET NO. OF SHEETS STA. TO STA.	FED. RO	DAD DIST. NO. ILLINOIS FED.	AID PROJECT		





SECTION A-A

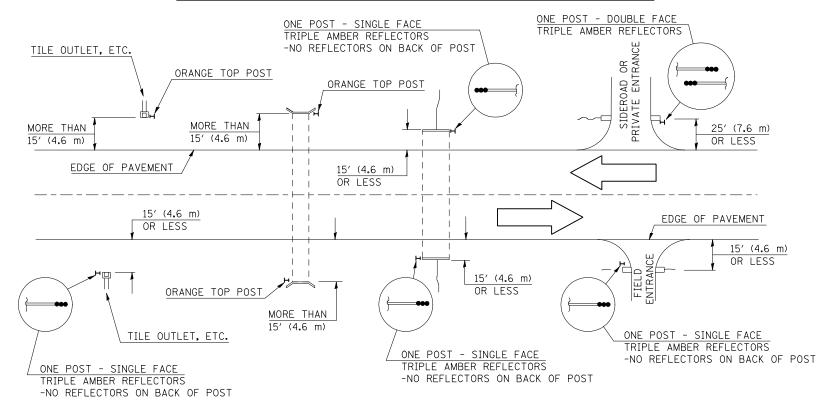
HMA MAINTENANCE CROSSOVER



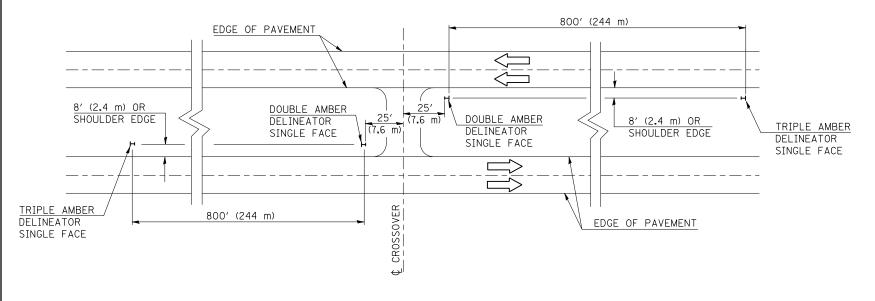
FILE NAME =	USER NAME = shererjm	DESIGNED	-	JMS	REVISED -
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	PLOT SCALE = 100.00000 '/ IN.	CHECKED	-		REVISED -
	PLOT DATE = 1/29/2009	DATE	-	6/03/2008	REVISED -

						RTE.	SECTION	COUNTY	SHEETS	NO.
	M	ISCELL	LANEOUS	DETAIL	5	74	57-20(1)&(57-4,5,6)RS-3	MCLEAN	160	135
								CONTRACT	T NO. 7	70505
SCALE: NO SCALE	SHEET NO.	0F	SHEETS	STA.	TO STA.	FED. RO	DAD DIST. NO. ILLINOIS FED. A	D PROJECT		

IDENTIFICATION OF ROADSIDE HAZARDS FOR TWO-LANE ROADWAYS



MEDIAN DELINEATORS AT CROSSOVER (FOR INTERSTATES, EXPRESSWAYS, DUAL HIGHWAYS)



BILL OF MATERIALS

DELINEATOR TYPE	SINGLE	DOUBLE	NO	TOTAL
	FACE	FACE	REFLECTOR	DELINEATORS
SINGLE CRYSTAL		N/A	N/A	
DOUBLE CRYSTAL			N/A	
SINGLE AMBER			N/A	
DOUBLE AMBER		N/A	N/A	
TRIPLE AMBER			N/A	
ORANGE TOP	N/A	N/A		
			TOTAL	

NOTES

DELINEATORS FOR ROADSIDE HAZARDS SHALL ONLY BE PLACED AT LOCATIONS WHERE THERE IS NO GUARDRAIL, OR OTHERPERMANENT BARRIER, ON THE SAME SIDE OF ROAD AS THE HAZARD.

DELINEATORS FOR ROADSIDE HAZARDS SHALL ONLY BE PLACED AT LOCATIONS WHERE DELINEATORS ARE NOT IN PLACE ALONG THE EDGE OF SHOULDER.

EACH POST SHALL BE CONSIDERED AS ONE DELINEATOR FOR PAYMENT, REGARDLESS OF THE NUMBER OF DELINEATORS ATTACHED TO IT.

POSTS INDICATED AS "ORANGE TOP" SHALL HAVE NO REFLECTORS. THEY SHALL HAVE THE TOP 12" (300 mm) (MINIMUM) OF THE POST PAINTED A BRIGHT ORANGE COLOR SIMILAR TO CONSTRUCTION SIGNS, AND SHALL MEET THE APPROVAL OF THE ENGINEER. FLUORESCENT PAINT OR OTHER SPECIAL RETROREFLECTIVE COATINGS WILL NOT BE REQUIRED.

FOR ONE-WAY ROADWAYS THE APPLICATION SHALL BE SIMILAR WITH DELINEATORS PLACED ON THE TRAFFIC APPROACH SIDE OF HAZARDS AND OBJECTS. ONLY SINGLE FACE DELINEATORS WILL BE REQUIRED ON ONE-WAY ROADWAYS.

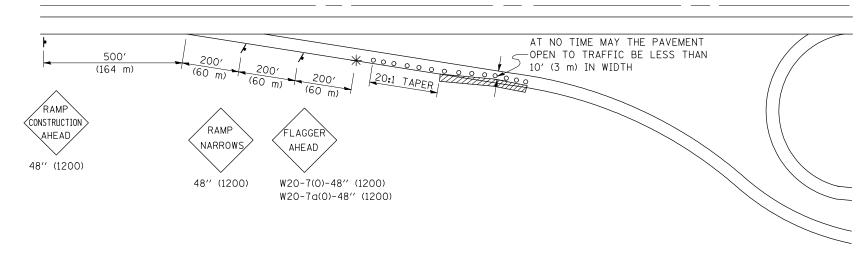
FOR OTHER DELINEATOR APPLICATIONS, REFER TO HIGHWAY STANDARD 635001.

Note: All dimensions are in INCHES (millimeters) unless otherwise shown.

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c:\pw_work\PWIDOT\SHERERJM\dms83233\70	005details.dgn	DRAWN -	REVISED -	STATE OF ILLINOIS	SCALE: SHEET NO. OF SHEETS STA. TO STA.				74	57-20(1) & (57-	4.5.6)RS-3	MCLEAN	160	136
	PLOT SCALE = 40.0000 '/ IN.	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION							,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	CONTRAC	F NO. 70	0505	
	PLOT DATE = 1/29/2009	DATE -	REVISED -					FED. R	DAD DIST.	NO. ILL	INOIS FED. AID				

APPLICATION NO. 1 DAY OPERATION ONLY PARTIAL RAMP CLOSURE



GENERAL NOTES

CONSTRUCTION OPERATIONS SHALL BE CONFINED TO AN AREA NARROW ENOUGH THAT A MINIMUM OF 10' (3 m) OF PAVEMENT SHALL BE OPEN TO TRAFFIC AT ALL TIMES.

FULL WIDTH PAVEMENT ON THE RAMPS SHALL BE OPEN TO TRAFFIC AT NIGHT.

WHEN NO WORK IS BEING PERFORMED, THE FLAGGER WILL NOT BE REQUIRED. IF THE FLAGGER IS NOT PRESENT, THE FLAGGER SIGNS SHALL BE REMOVED OR COVERED.

FILE

ALL SIGNS SHALL BE POST MOUNTED IF WORK IN THE AREA EXCEEDS FOUR DAYS OF DAYTIME OPERATIONS.

LONGITUDINAL DIMENSIONS MAY BE ADJUSTED SLIGHTLY TO FIT FIELD CONDITIONS.

ALL VEHICLES, EQUIPMENT, WORKERS (EXCEPT FLAGGER) AND THEIR ACTIVITIES ARE RESTRICTED AT ALL TIMES TO ONE SIDE OF THE PAVEMENT UNLESS OTHERWISE AUTHORIZED BY THE DISTRICT ENGINEER.

APPLICATION NO. 2 RAMP CLOSURE

SYMBOLS

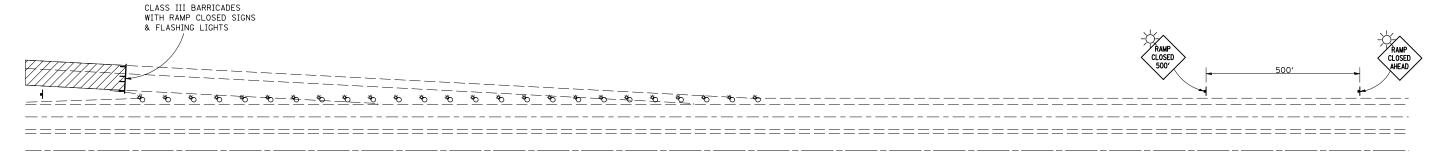
- (APPLICATION NO. 1) TYPE I OR II BARRICADES OR DRUMS @ 50' (15 m) CTS.
- ♦ (APPLICATION NO. 2) TYPE I OR II BARRICADES OR DRUMS @ 25' (7.5 m) CTS. W/STEADY BURNING LIGHTS
- * (APPLICATION NO. 1) FLAGGER PLACED AS DIRECTED BY THE ENGINEER
- ▶ SIGN ON PORTABLE OR PERMANENT SUPPORT

WORK AREA

TYPICAL APPLICATIONS

PAVEMENT PATCHING PIPE UNDERDRAINS HMA RESURFACING

Traffic Control for all ramps shall be in accordance with the appropriate application of plan detail TRAFFIC CONTROL FOR RAMPS and will not be paid for separately, but shall be included in the contract lump sum prices for Traffic Control and Protection, Standard 701401 and Traffic Control and Protection, Standard 701406.



GENERAL NOTES

STEADY BURN LIGHTS ARE NOT REQUIRED FOR DAYTIME OPERATIONS.

CONTACT THE DISTRICT TRAFFIC OPERATIONS ENGINEER AT 217-465-4181, ONE WEEK PRIOR TO CLOSING THE RAMP.

Note: All dimensions are in INCHES (millimeters) unless otherwise shown.

						DISTRICT 5 DETAI	DISTRICT 5 DETAIL NO. 70103710		
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:\pw_work\PWIDOT\SHERERJM\dms83233\70	505details.dgn	DRAWN -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TRAFFIC CONTROL FOR RAMPS	74 57-20(1) & (57-4,5,6)RS-3	MCLEAN 160 137		
	PLOT SCALE = 40.00000 ' / IN.	CHECKED -	REVISED -				CONTRACT NO. 70505		
	PLOT DATE = 1/29/2009	DATE -	REVISED -		SCALE: SHEET NO. OF SHEETS STA. TO STA.	FED. ROAD DIST. NO. ILLINOIS FED. AI			

CENTERLINE INTERSTATE OR MULTI-LANE TWO WAY DIVIDED HIGHWAY EDGE OF PAV'T. TYPICAL EXIT RAMP TERMINAL ¢ MEDIAN — 2 LANES 2 LANES EDGE OF PAV'T. 10' (3.05 m) (TYP.) 10' (3.05 m) (TYP.) DIRECTION OF (TYPICAL) TRAFFIC 12 C PAVEMENT AS SHOWN IN THE PLANS DIRECTION OF 7 TRAFFIC EXIT RAMP TERMINAL with EXCLUSIVE (auxiliary) LANE 30' (9.0 m) EDGE OF PAV'T. -8 3 LANES NOTE: PAVEMENT MARKINGS ARE NOTE: SEE ARTICLES 780.04 & 781.03 FOR LOCATION OF STRIPES TO BE EXTENDED THROUGH AND MARKERS RELATIVE TO EDGES OR JOINTS. SEE PLANS FOR END OF TAPER OMISSIONS WHEN APPLICABLE. 2" (50) FOR RAISED REFLECTIVE PAVEMENT MARKERS, REFER TO STANDARD 781001. STATIONING 8 TYPICAL PAVEMENT MARKING LEGEND 660' C - C 660' C - C (EXACTLY) (EXACTLY) TYPICAL ENTRANCE RAMP TERMINAL 1 4" (100) SKIP-DASH (YELLOW) 2 4" (100) SOLID (YELLOW) 3 12" (300) DIAGONAL (YELLOW) 2 LANES 2 LANES 16' (4.9 m) GORE 4 4" (100) DOUBLE YELLOW (NARROW) **=** 6" (150) CTS. 5 RESERVED 12 6 RESERVED 7 4" (100) SKIP-DASH (WHITE) -EDGE OF PAVED SHOULDER 8 4" (100) SOLID (WHITE) ENTRANCE RAMP TERMINAL with EXCLUSIVE LANE IT WILL BE NECESSARY TO HAVE A REPRESENTATIVE OF THE 9 12" (300) DIAGONAL (WHITE) STATE POLICE PRESENT SO THAT THE ACCURACY OF MEASUREMENT CAN BE ATTESTED TO IN COURT. 10 6" (150) SOLID (WHITE) 2" (50) -CENTERLINE OR 11 24" (600) STOP BAR (WHITE) 2 LANES 3 LANES EDGELINE 16' (4.9 m) GORE 12 8" (200) SOLID (WHITE) 4" (100) LANE LINE EXTENSIONS (WHITE) 8 4' TYP. 24" TYP. (1.22 m) AERIAL SPEED CHECK ZONES START LAYOUT_ Note: All dimensions are in INCHES (millimeters) unless otherwise shown. LARGE MERGE ARROWS 42 SQ. FT. **DISTRICT 5 DETAIL NO. 7800BBBB**

STATE OF ILLINOIS

DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING (INTERSTATE & MULTI-LANE APPLICATIONS)

SHEET NO. OF SHEETS STA.

74 57-20(1) & (57-4,5,6)RS-3 MCLEAN 160 138

CONTRACT NO. 70505

DESIGNED

DRAWN

DATE

CHECKED

USER NAME = sherer.jm

PLOT DATE = 1/29/2009

FILE NAME =

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