



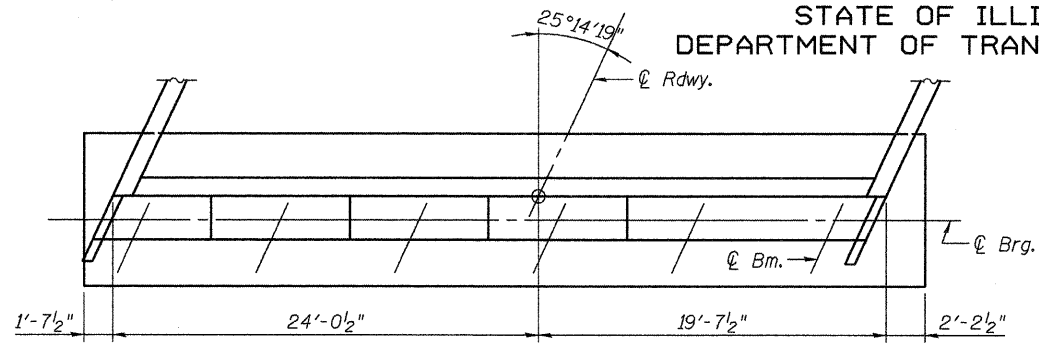


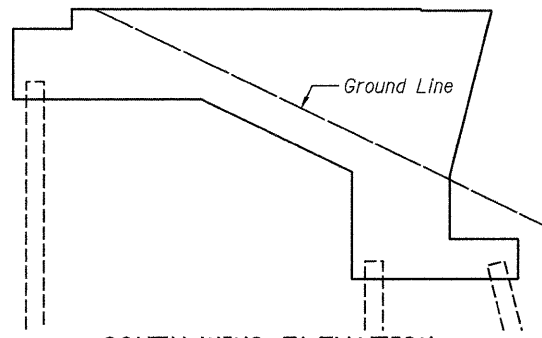
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LEGEND

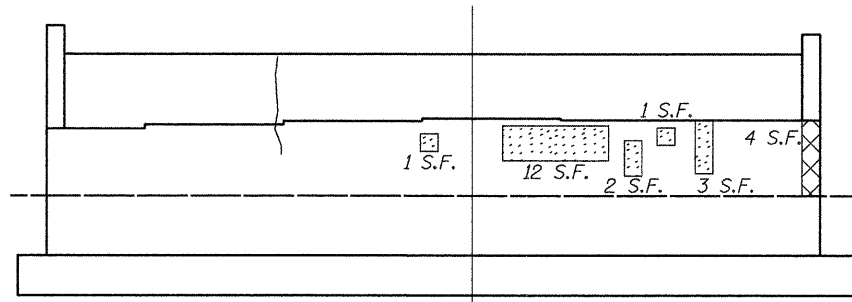
-  Hollow or Unsound Concrete
-  Spalled Concrete
-  Spalled Concrete with Exposed Reinf.
-  Hairline Crack



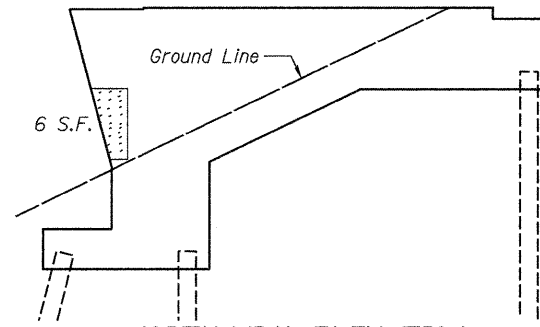
PLAN



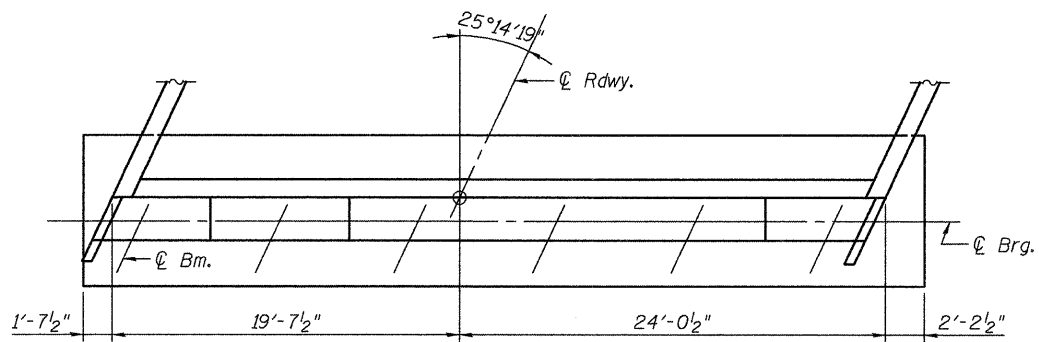
SOUTH WING ELEVATION



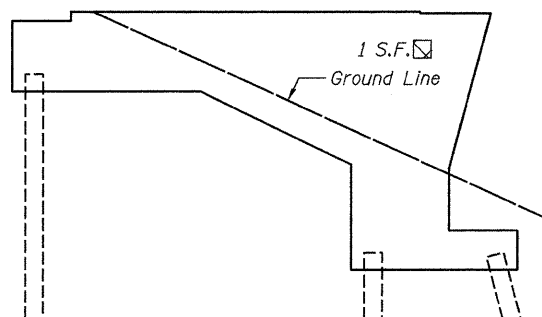
ELEVATION AT EAST ABUTMENT



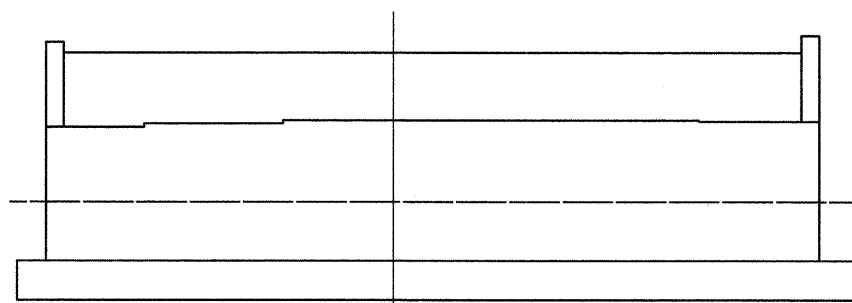
NORTH WING ELEVATION



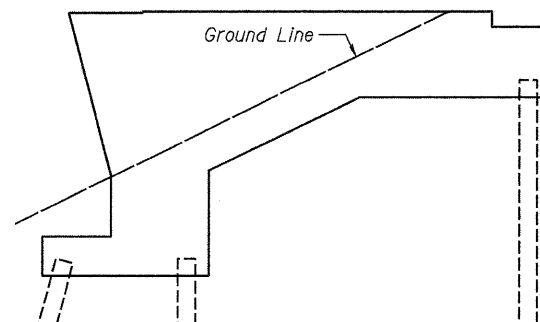
PLAN



NORTH WING ELEVATION



ELEVATION AT WEST ABUTMENT



SOUTH WING ELEVATION

BILL OF MATERIAL

Item	Unit	Total
Structural Repair of Concrete (Depth = < 5")	Sq. Ft.	5

Notes:
Condition Survey performed 9/16/2009.

Plan quantities assume that areas of "exposed reinforcing" will be repaired.

Repair areas are estimated, the Engineer shall determine actual repair locations and record them on the As-Built plans.

 **Johnson, Depp & Quisenberry**
CONSULTING ENGINEERS
Springfield, Illinois

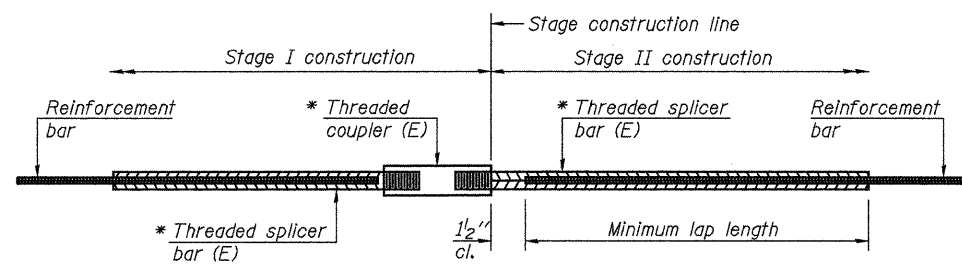
DESIGNED: JDQ	DRAWN: SJS
CHECKED: DCD	CHECKED: DCD

ABUTMENTS (NB)
STRUCTURE NO. 058-0104(NB) & 0105(SB)

SHEET 10 OF 11	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	322	(58-20)RS	MACON	151	101
STA. 142+55.53		CONTRACT NO. 74150			
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT			

DATE: 04/09/2010 10:51:16 USER: DCD FILE: J:\JDQ\10177 IL-DT\VT\8 USS\Bridg Repairs\2-Taylor-Road\0580104-74150-010-abutms-NB.dgn

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



STANDARD BAR SPLICER ASSEMBLY

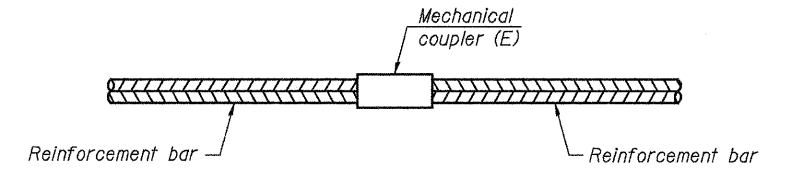
Bar size to be spliced	Minimum Lap Lengths			
	Table 1	Table 2	Table 3	Table 4
3, 4	1'-5"	1'-11"	2'-1"	2'-4"
5	1'-9"	2'-5"	2'-7"	2'-11"
6	2'-1"	2'-11"	3'-1"	3'-6"
7	2'-9"	3'-10"	4'-2"	4'-8"
8	3'-8"	5'-1"	5'-5"	6'-2"
9	4'-7"	6'-5"	6'-10"	7'-9"

Table 1: Black bar, 0.8 Class C
Table 2: Black bar, Top bar lap, 0.8 Class C
Table 3: Epoxy bar, 0.8 Class C
Table 4: Epoxy bar, Top bar lap, 0.8 Class C

Threaded splicer bar length = min. lap length + 1/2" + thread length

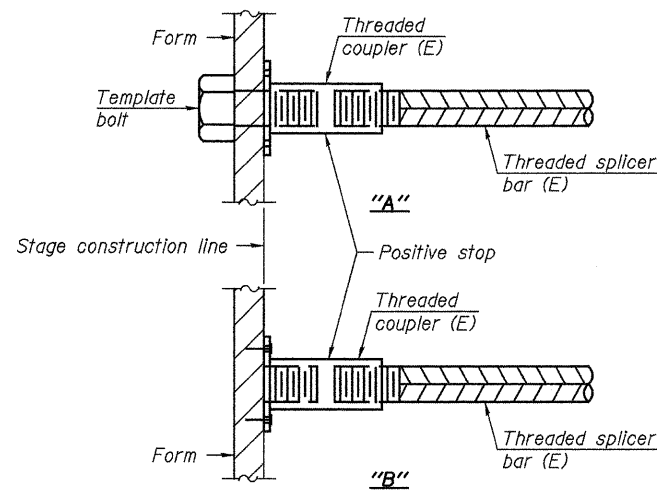
* Epoxy not required on Bar Splicer Assembly components used in conjunction with black bars.

Location	Bar size	No. assemblies required	Table for minimum lap length
Deck Exp. Jts.	#5	4 (SB) & 4 (NB)	3
Deck Exp. Jts.	#6	10 (SB) & 10 (NB)	3
Deck Exp. Jts.	#7	18 (SB) & 18 (NB)	3



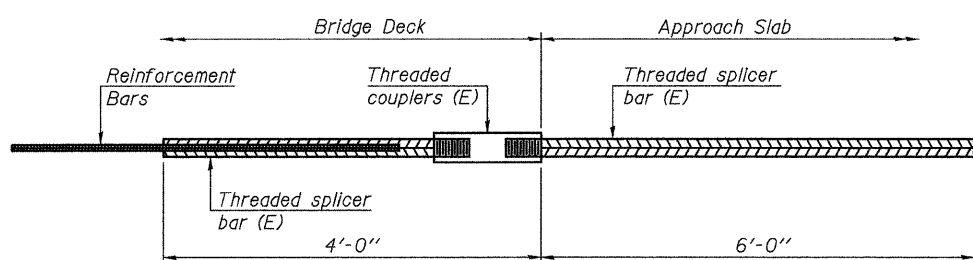
STANDARD MECHANICAL SPLICER

Location	Bar size	No. assemblies required



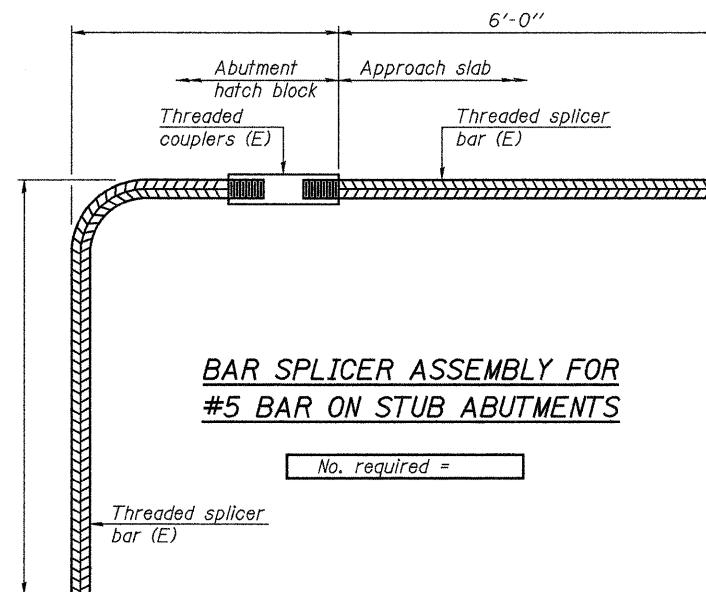
INSTALLATION AND SETTING METHODS

"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 ASSEMBLY FOR #5 BAR ON INTEGRAL OR SEMI-INTEGRAL ABUTMENTS

No. required =



BAR SPLICER ASSEMBLY FOR #5 BAR ON STUB ABUTMENTS

No. required =

NOTES

Splicer bars shall be deformed with threaded ends and have a minimum 60 ksi yield strength.
All reinforcement shall be lapped and tied to the splicer bars.
Bar splicer assemblies shall be epoxy coated according to the requirements for reinforcement bars. See Section 508 of the Standard Specifications.
See special provision for Mechanical Splicers.
See approved list of bar splicer assemblies and mechanical splicers for alternatives.

BAR SPLICER ASSEMBLY AND MECHANICAL SPLICER DETAILS
STRUCTURE NO. 058-0104(NB) & 0105(SB)

SHEET 11 OF 11	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	322	(58-20)RS	MACON	151	102
STA. 142+55.53		CONTRACT NO. 74150			
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT			

JD Johnson, Depp & Quisenberry
CONSULTING ENGINEERS
Springfield, Illinois

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

BSD-1 11-1-09

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EXISTING STRUCTURE: S.N. 058-0108(SB) & 0109(NB), originally constructed in 1978 as FA Route 412 Sec. 58-20HVB-1 at Station 235+00.78, using rolled and welded steel I-girders with 8" concrete deck and 1/2" bituminous wearing surface, 4 spans, 275'-4" back-back abutments, variable out-out width, open stub abutments on concrete piles, multi-column piers with footings on concrete piles.

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

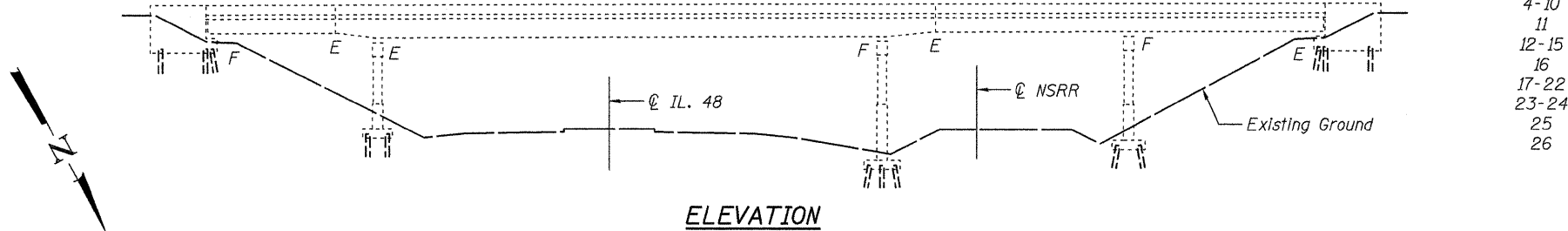
Staged construction shall be used to maintain one lane of traffic in each direction.

INDEX OF SHEETS

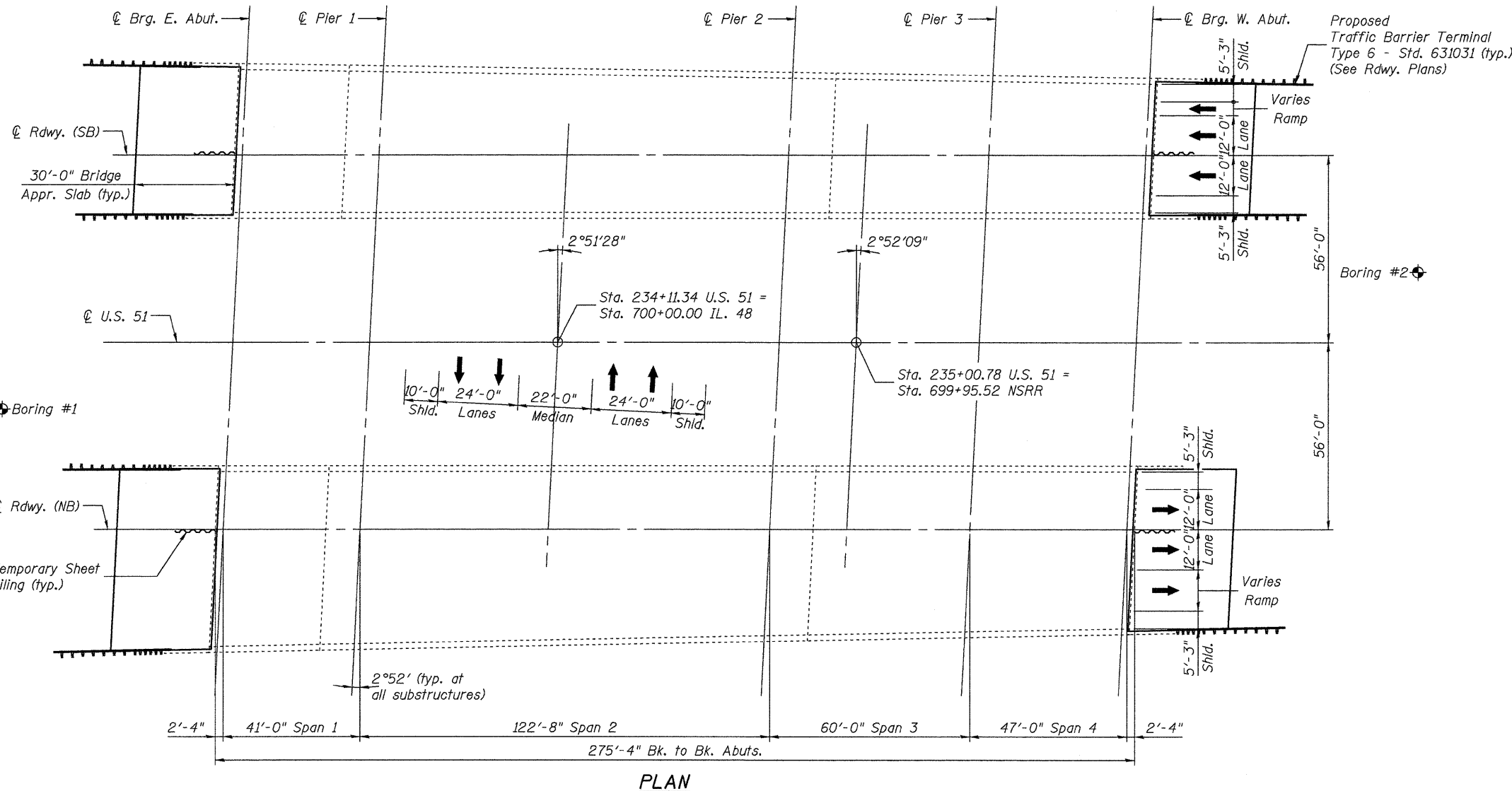
Sheet No.	Description
1	Gen Plan, Gen Notes, Bill of Mat'l
2	Temporary Sheet Piling
3	Temporary Concrete Barrier
4-10	Superstructure
11	Preformed Joint Strip Seal
12-15	Bridge Approach Slab Details
16	Bearings
17-22	Abutments
23-24	Piers
25	Bar Splicer Assembly Details
26	Soil Borings

GENERAL NOTES

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 50° F.
No field welding is permitted except as specified in the contract documents.
Reinforcement bars shall conform to the requirements of ASTM A 706 Gr 60. See Special Provisions.
Reinforcement bars designated (E) shall be epoxy coated.
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.
Where shown on the plans, reinforcement bars shall be epoxy grouted into existing concrete according to Section 584 of the Standard Specifications. Cost included with Reinforcement Bars, 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 surfaces 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.



ELEVATION

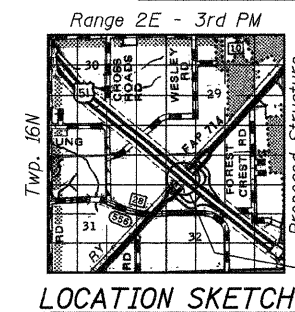


PLAN

Plan dimensions and details relative to existing plans are subject to routine 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 based upon the unit price bid 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.
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".
All structural steel shall be shop painted with the inorganic zinc rich primer per AASHTO M300, Type 1. Cost included with Furnishing and Erecting Structural Steel.
Protective Shield shall be provided for the full width of the bridge deck, over the roadway below from edge of shoulder to edge of shoulder, and over the railroad for 10 feet each side of the track centerline.
Elevations shown on these plans are based on the original 1975 plan elevations, not the current datum. The original plan elevations may be used to establish a temporary benchmark for construction.

TOTAL BILL OF MATERIAL

ITEM	UNIT	SB	NB
Porous Granular Embankment, Special	Cu Yd	160	200
Hot-Mix Asphalt Surface Removal (Deck)	Sq Yd	1166	1422
Concrete Removal	Cu Yd	53.5	65.1
Protective Shield	Sq Yd	610	733
Structure Excavation	Cu Yd	160	200
Concrete Structures	Cu Yd	48.0	56.2
Concrete Superstructure	Cu Yd	159.2	195.6
Bridge Deck Grooving	Sq Yd	1440	1772
Protective Coat	Sq Yd	1753	2085
Furnishing And Erecting Structural Steel	Pound	1090	1240
Jack And Remove Existing Bearings	Each	7	8
Reinforcement Bars, Epoxy Coated	Pound	39580	47590
Bar Splicers	Each	388	405
Temporary Sheet Piling	Sq Ft	318	323
Preformed Joint Strip Seal	Foot	173	209
Elastomeric Bearing Assembly, Type I	Each	7	8
Anchor Bolts, 1"	Each	14	16
Geocomposite Wall Drain	Sq Yd	72	87
Pipe Underdrains For Structures 4"	Foot	218	235
Structural Repair Of Concrete (Depth = < 5")	Sq Ft	1	10
Bridge Deck Microsilica Concrete Overlay 2 1/4"	Sq Yd	1166	1422
Bridge Deck Hydro-Scarification 2"	Sq Yd	1166	1422



LOCATION SKETCH

GENERAL PLAN & ELEVATION
U.S. 51 OVER IL 48 & NSRR
F.A.P. RTE. 322 SECTION (58-20)RS
MACON COUNTY
STATION 235+00.78
STRUCTURE NO. 058-0108(SB) & 0109(NB)

SHEET 1 OF 26	F.A.P. RTE. 322	SECTION (58-20)RS	COUNTY MACON	TOTAL SHEETS 151	SHEET NO. 103
		STA. 235+00.78	CONTRACT NO. 74150		
		FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT		

JD Johnson, Depp & Quisenberry
CONSULTING ENGINEERS
Springfield, Illinois

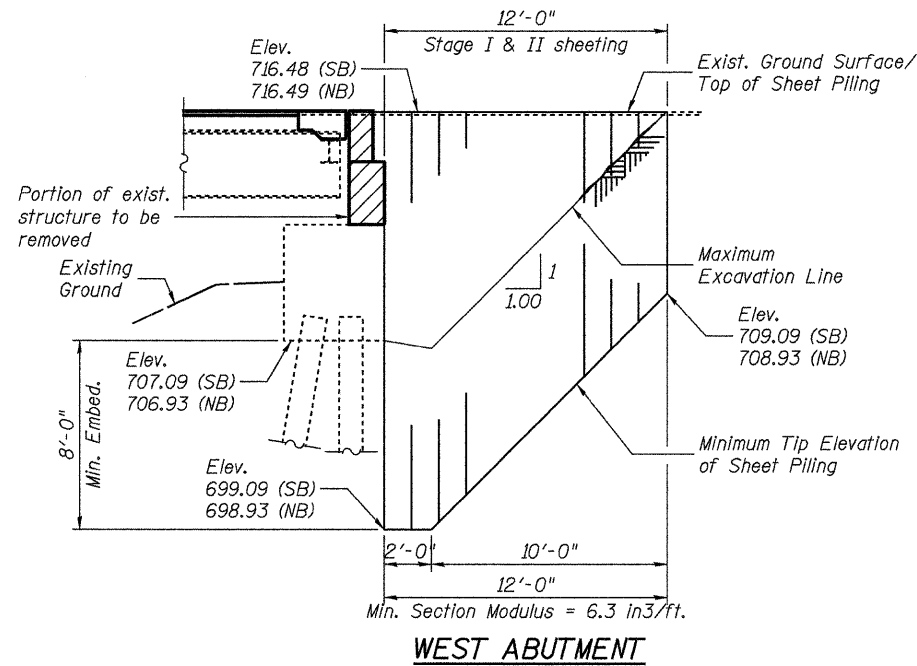
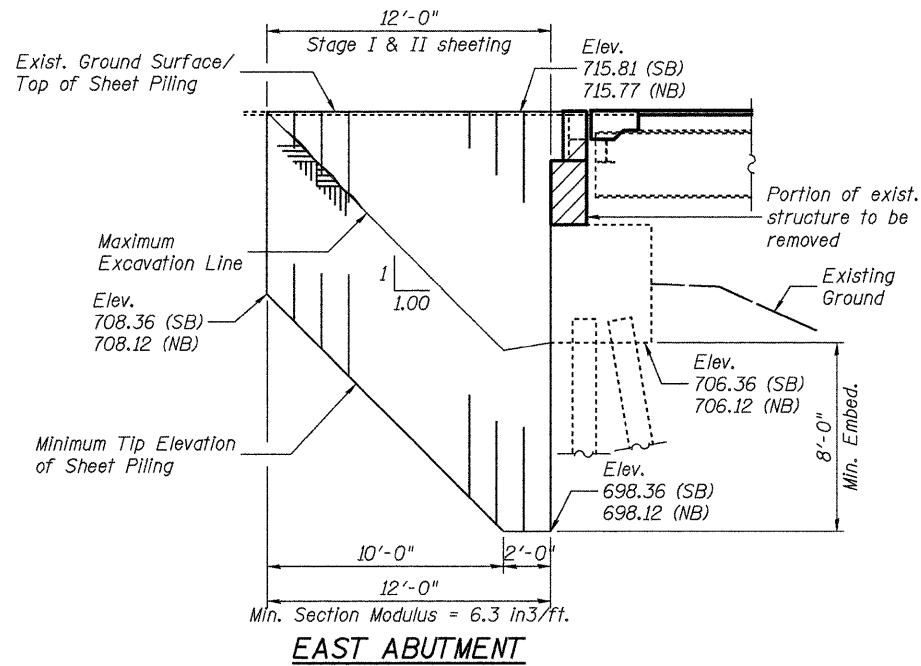
DESIGNED: JDQ DRAWN: PTR
CHECKED: DCD CHECKED: DCD

STATE OF ILLINOIS
DAVID G. DEPP
081-006117
LICENSED PROFESSIONAL ENGINEER

Signed: David Depp
Date: 4-9-2010
Lic. Expires: 11-30-2010

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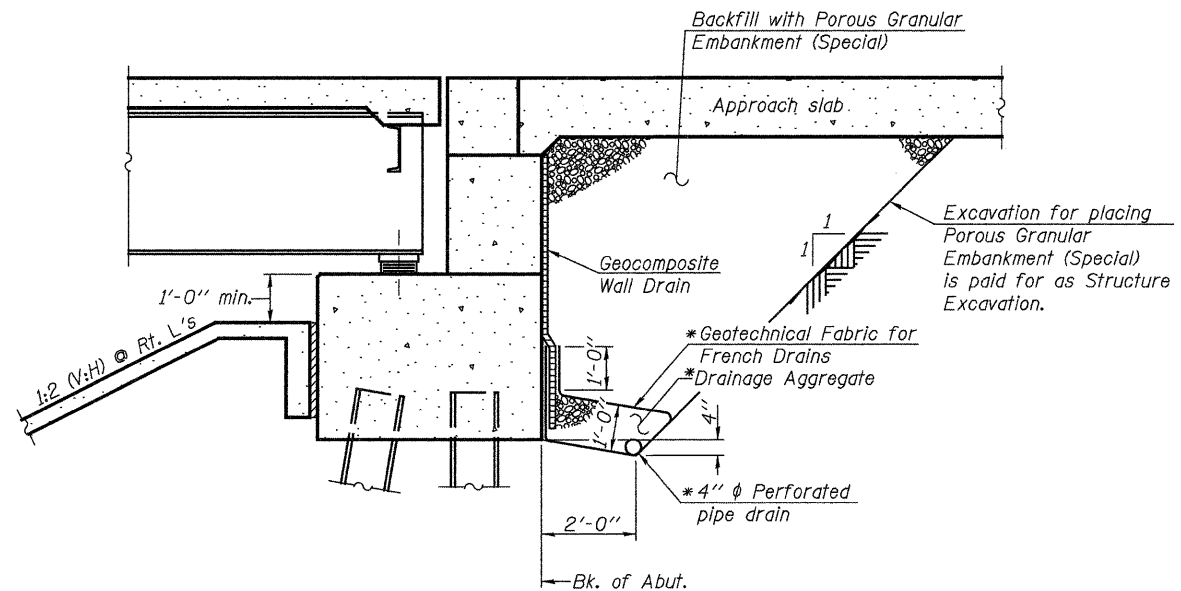
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



TEMPORARY SHEET PILING DETAILS

(Slopes and horizontal dimensions are measured parallel to \bar{C} roadway)

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



SECTION THRU PILE SUPPORTED

STUB ABUTMENT

(Horiz. dim. \odot Rt. L's)

*Included in the cost of Pipe Underdrains for Structures.

Note:

All drainage system components shall extend parallel to the abutment back wall until they intersect the wingwalls. The pipe shall extend under the wingwall, then to the toe of slope. The pipes shall drain into concrete headwalls. (See Article 601.05 of the Standard Specifications and Highway Standard 60110).

**TEMPORARY SHEET PILING
STRUCTURE NO. 058-0108(SB) & 0109(NB)**

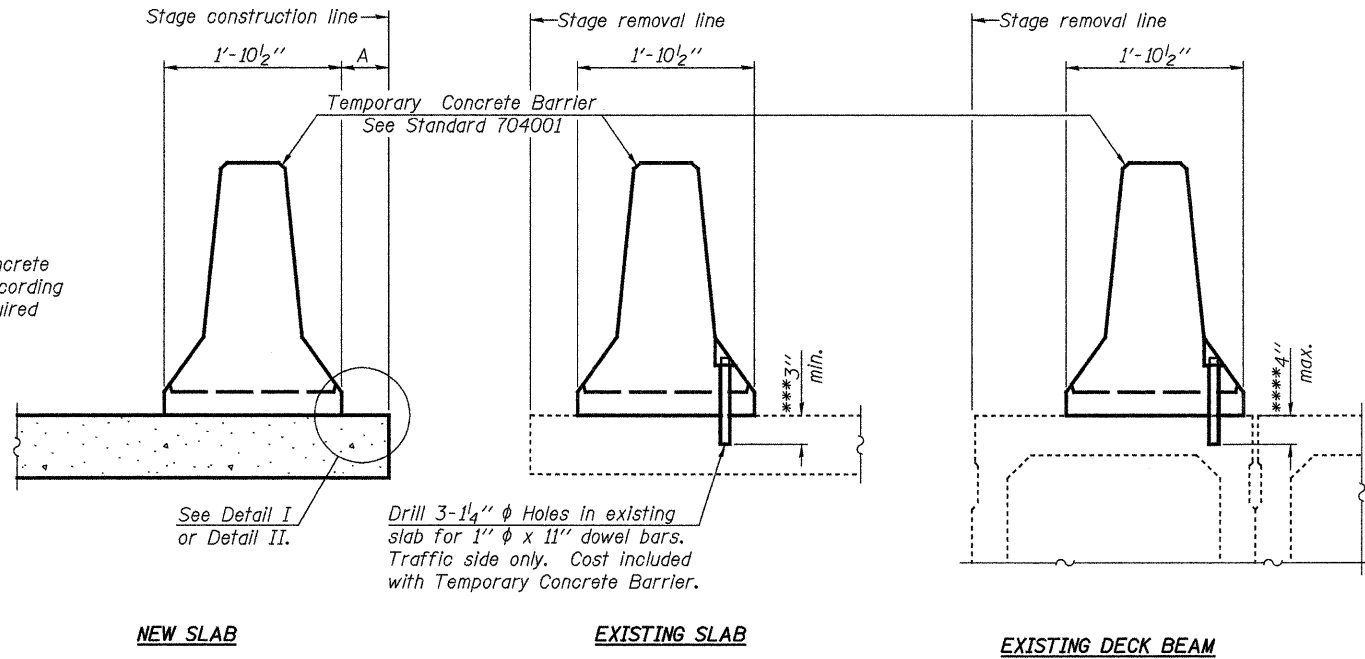
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		STA. 235+00.78	CONTRACT NO. 74150		
		FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT		

JD Johnson, Depp & Quisenberry
CONSULTING ENGINEERS
Springfield, Illinois

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

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

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



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

NOTES

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

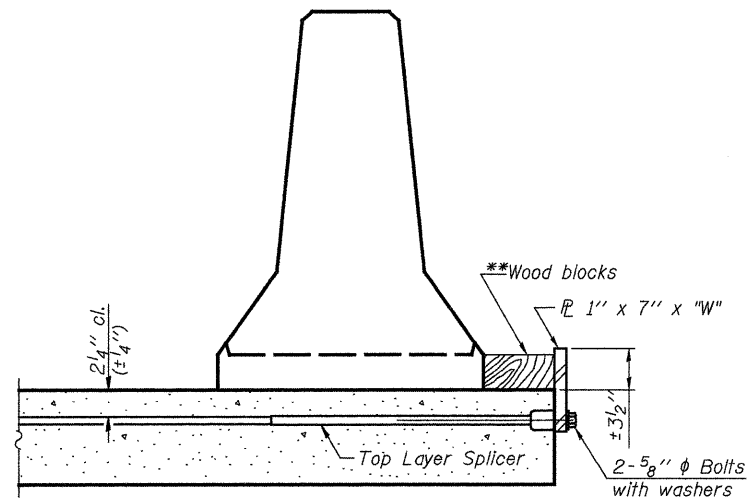
Detail II - With Extended Reinforcement Bars: Connect one (1) 1"x7"x 10" steel \bar{L} to the concrete slab or concrete wearing surface with 2-5/8" ϕ Expansion Anchors or cast in place inserts spaced between the top layer of reinforcement at approximate \bar{C} of each barrier panel.

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

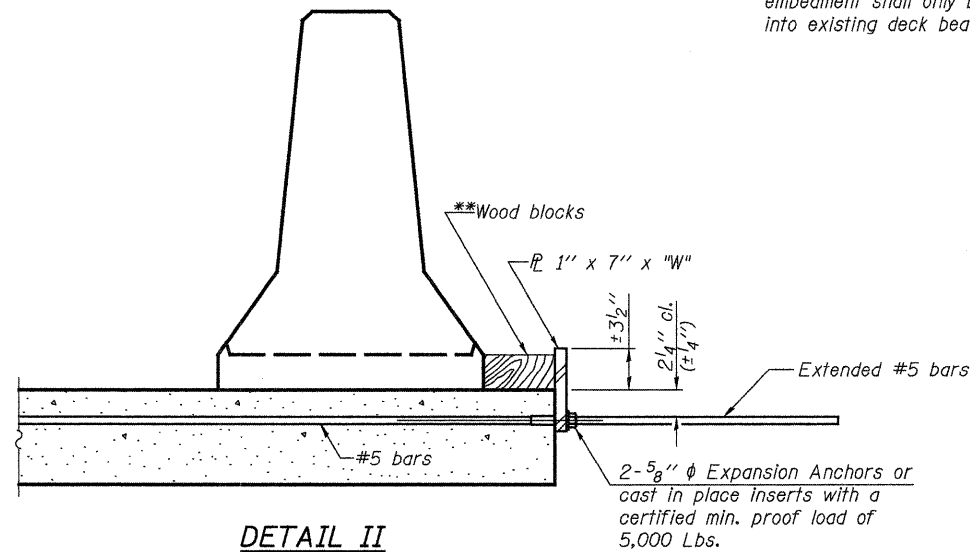
SECTIONS THRU SLAB OR DECK BEAM

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

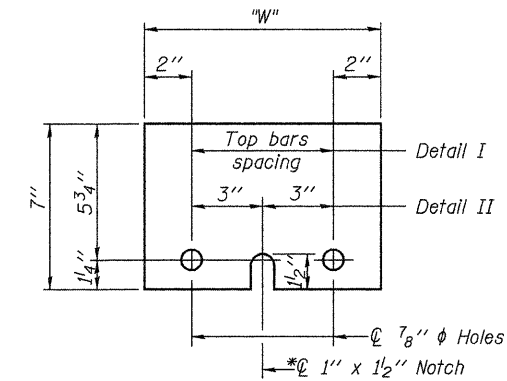
**** If existing deck beam is to remain in place after stage construction, embedment shall only be into wearing surface and not into existing deck beam concrete.



DETAIL I



DETAIL II



STEEL RETAINER \bar{L} 1" x 7" x 10"

* Required only with Detail II

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

"W" = Top bars spacing + 4"

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

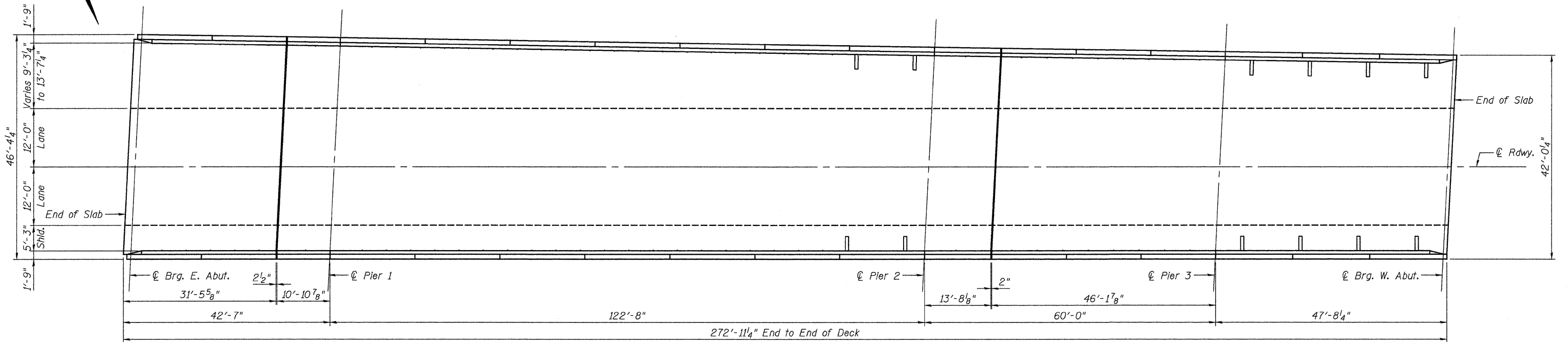
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11-1-09

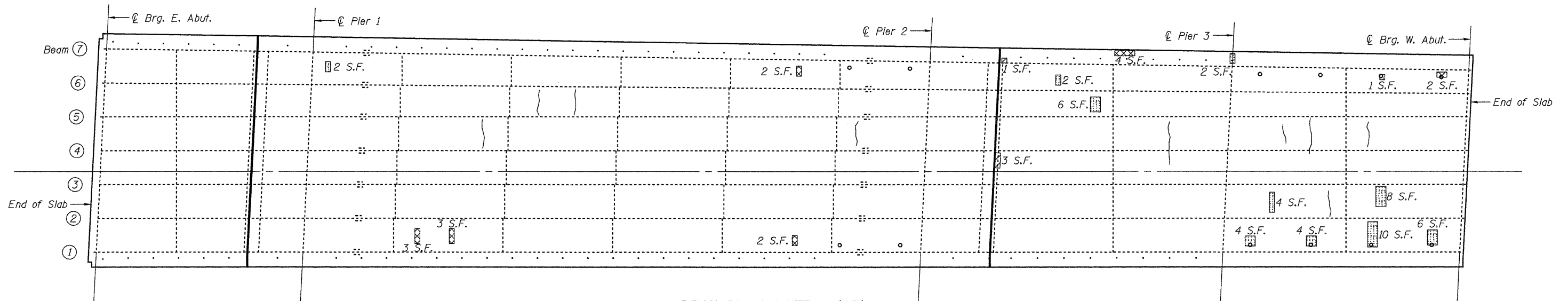
**TEMPORARY CONCRETE BARRIER
FOR STAGE CONSTRUCTION
STRUCTURE NO. 058-0108(SB) & 0109(NB)**

SHEET 3 OF 26	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	322	158-20/RS	MACON	151	105
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT	CONTRACT NO. 74150		

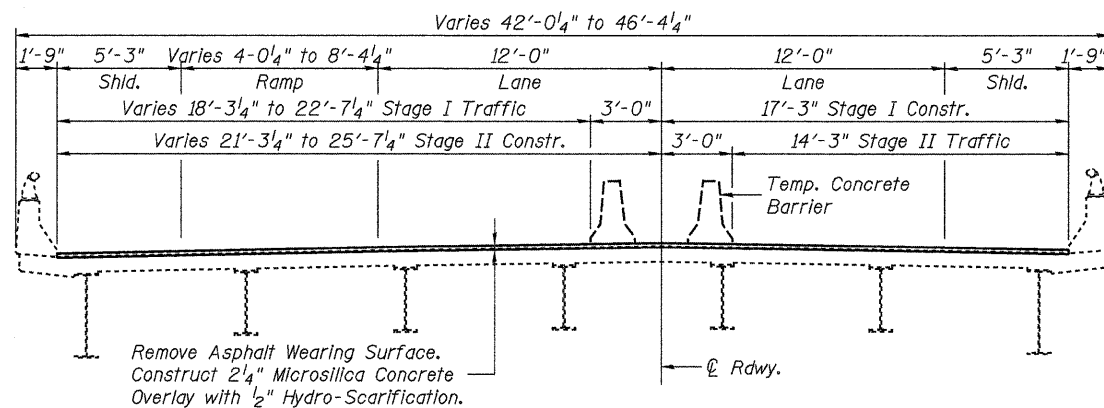
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



DECK PLAN-TOP (SB)



DECK PLAN-BOTTOM (SB)



CROSS SECTION
(Southbound, Looking West)

LEGEND

- Hollow or Unsound Concrete
- Spalled Concrete
- Spalled Concrete with Exposed Reinf.
- Hairline Crack

Notes:

Deck Condition Survey performed 9/17/2009.

Plan quantities assume that areas of "exposed reinforcing" greater than 5 sq. ft. will use Full-depth Type II repair.

Repair areas are estimated, the Engineer shall determine actual repair locations and record them on the As-Built plans.

Partial depth repairs are included with Bridge Deck Hydro-scarification, see Special Provision for Bridge Deck Microsilica Concrete Overlay.

BILL OF MATERIAL

Item	Unit	Total
Deck Slab Repair (Full Depth, Type II)	Sq. Yd.	0

Johnson, Depp & Quisenberry
CONSULTING ENGINEERS
Springfield, Illinois

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

DECK PLAN (SB)
STRUCTURE NO. 058-0108(SB) & 0109(NB)

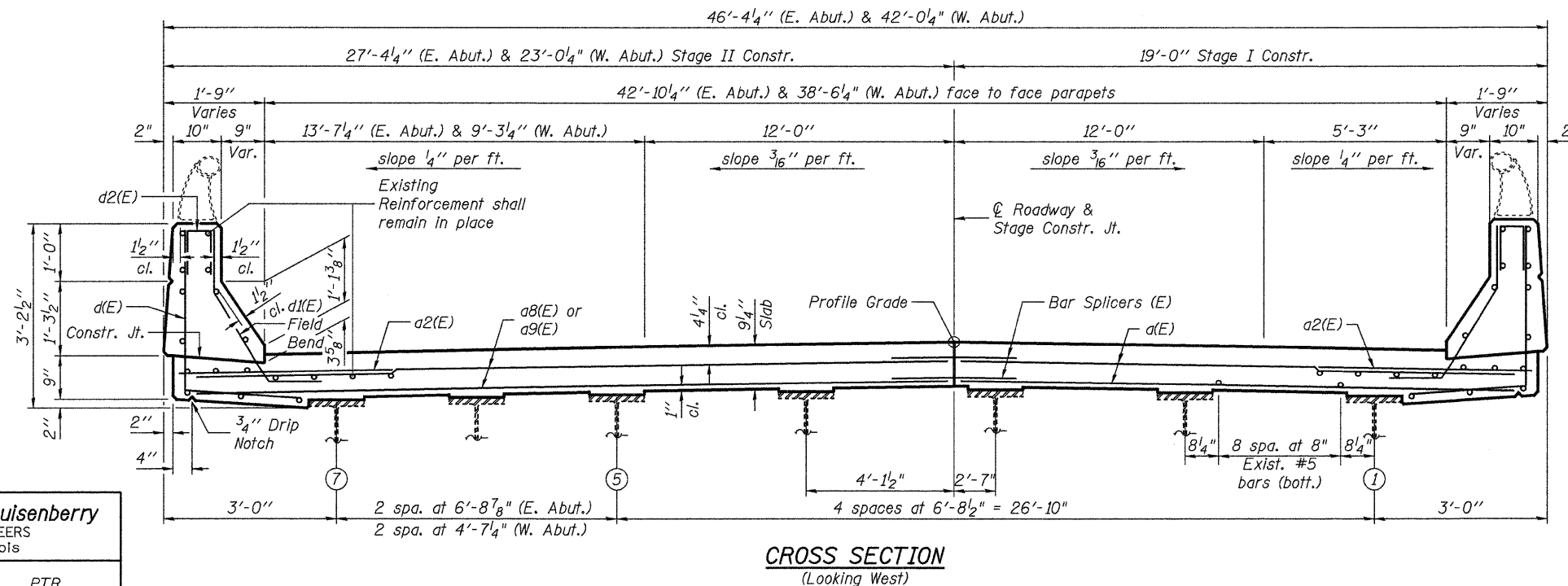
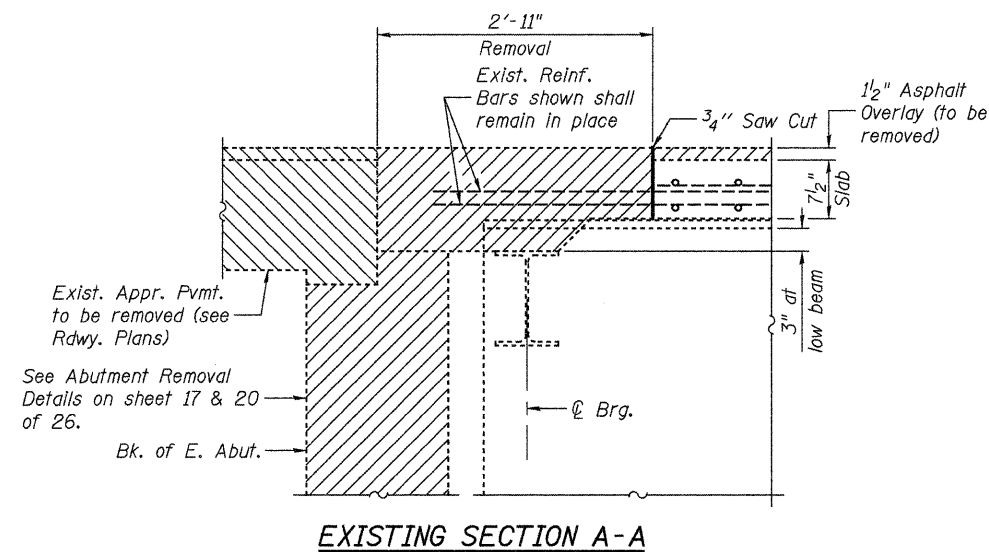
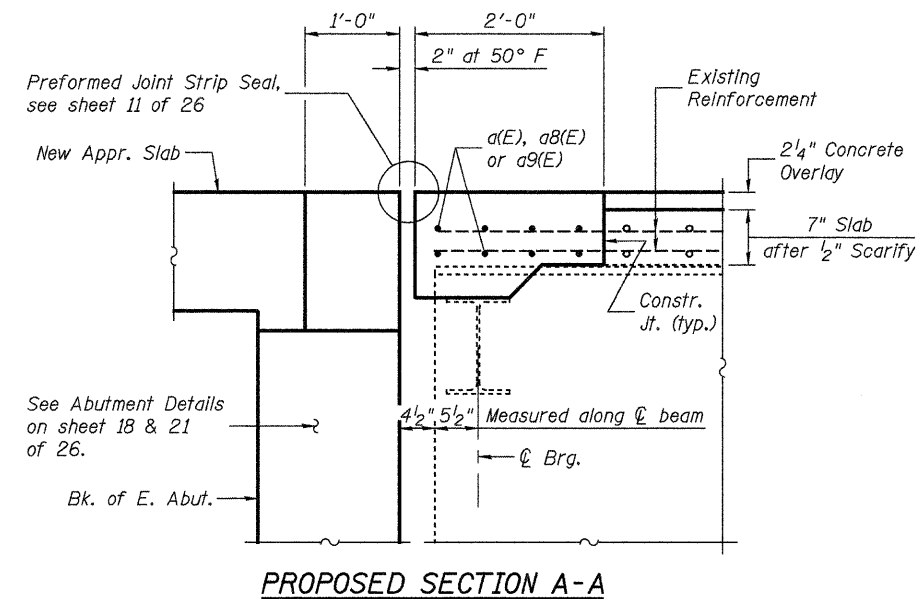
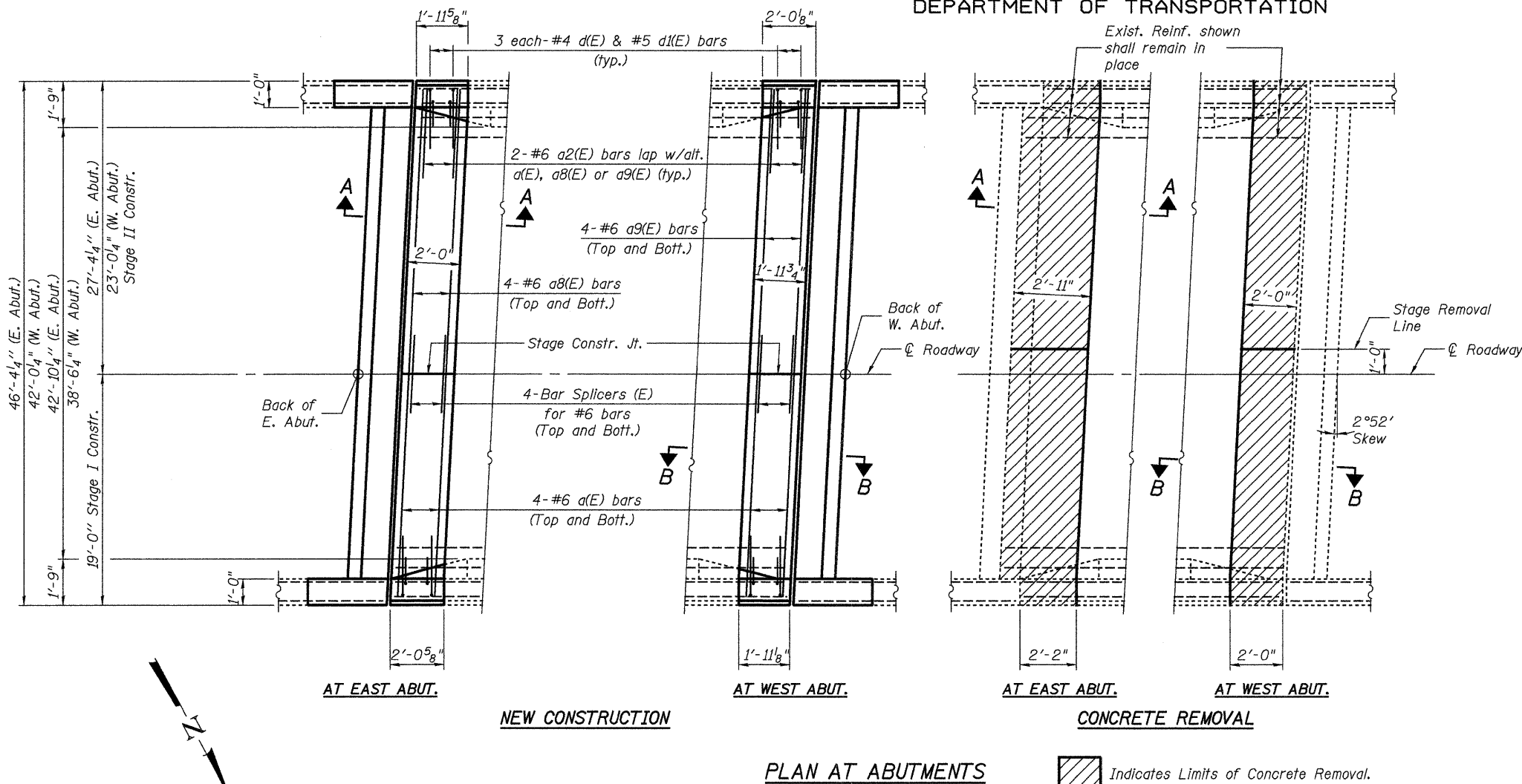
SHEET 4 OF 26	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	322	(58-20)RS	MACON	151	106
STA. 235+00.78			CONTRACT NO. 74150		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT			

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



Notes:
For Section B-B see sheet 8 of 26.
For Parapet Details and Bill of Material see sheet 10 of 26.
The existing expansion joint areas were previously reconstructed. The concrete removal for this project shall extend at least to the limits of the previous reconstruction.

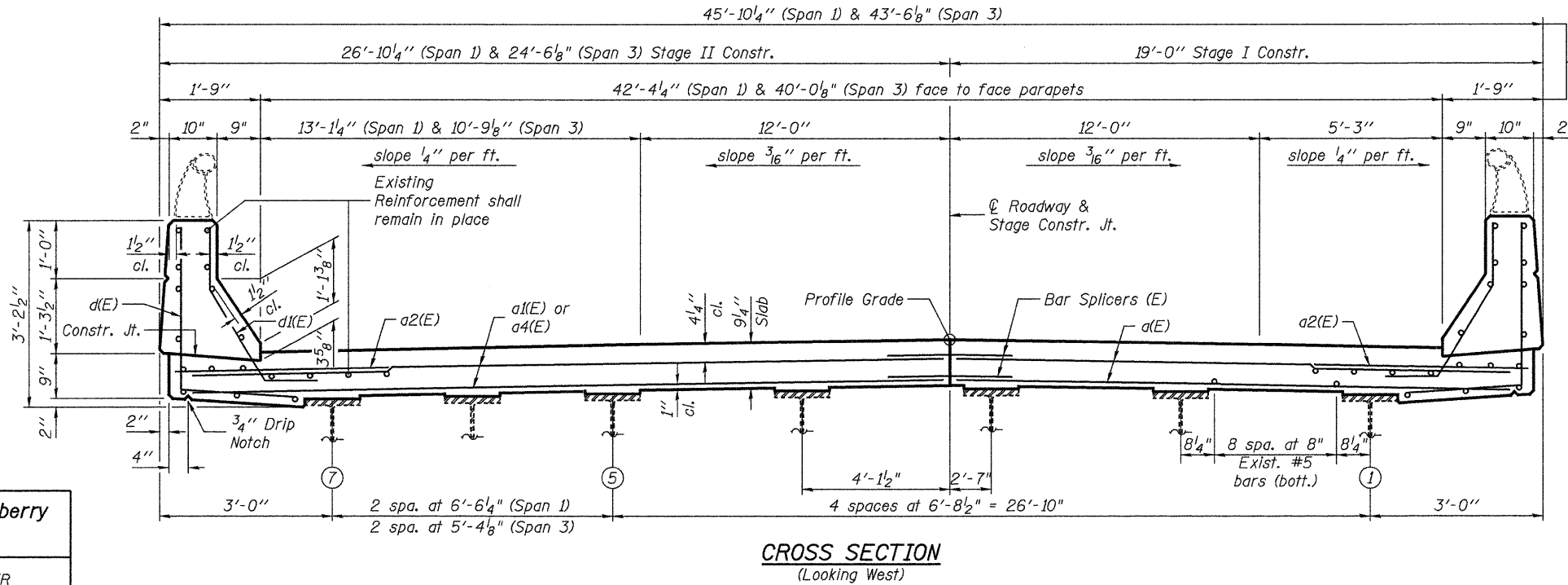
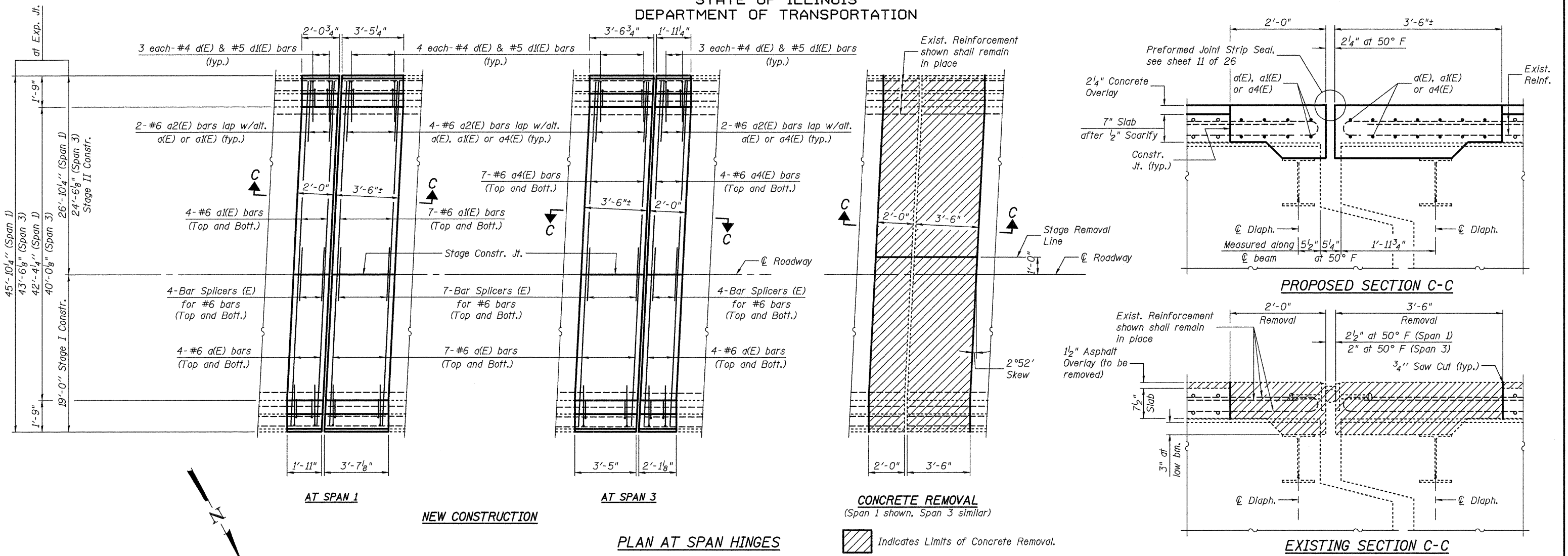
Johnson, Depp & Quisenberry CONSULTING ENGINEERS Springfield, Illinois	
DESIGNED: JDQ	DRAWN: PTR
CHECKED: DCD	CHECKED: DCD

SUPERSTRUCTURE (SB)
STRUCTURE NO. 058-0108(SB) & 0109(NB)

SHEET 5 OF 26	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	322	(58-20)RS	MACON	151	107
	STA. 235+00.78		CONTRACT NO. 74150		
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT					

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



Notes:
 For Parapet Details and Bill of Material see sheet 10 of 26.
 The existing expansion joint areas were previously reconstructed. The concrete removal for this project shall extend at least to the limits of the previous reconstruction.

Johnson, Depp & Quisenberry
 CONSULTING ENGINEERS
 Springfield, Illinois

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

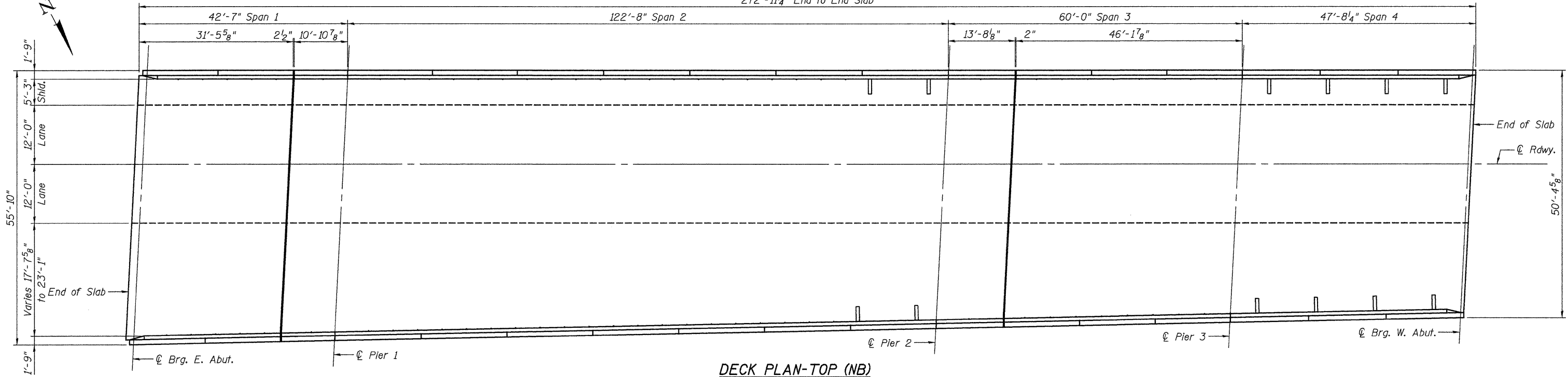
SUPERSTRUCTURE (SB)
STRUCTURE NO. 058-0108(SB) & 0109(NB)

SHEET 6 OF 26	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	322	158-20/RS	MACON	151	108
		STA. 235+00.78	CONTRACT NO. 74150		
		FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT		

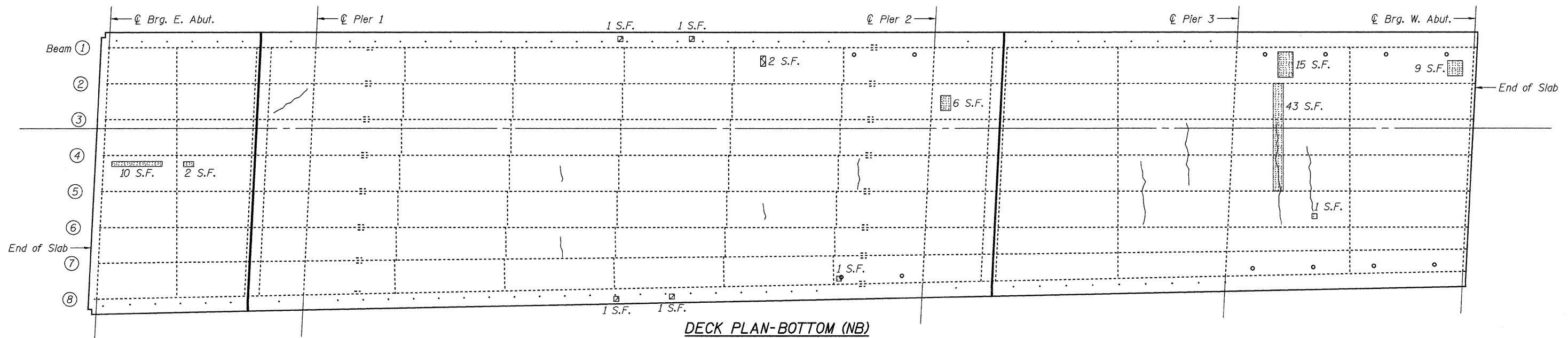
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

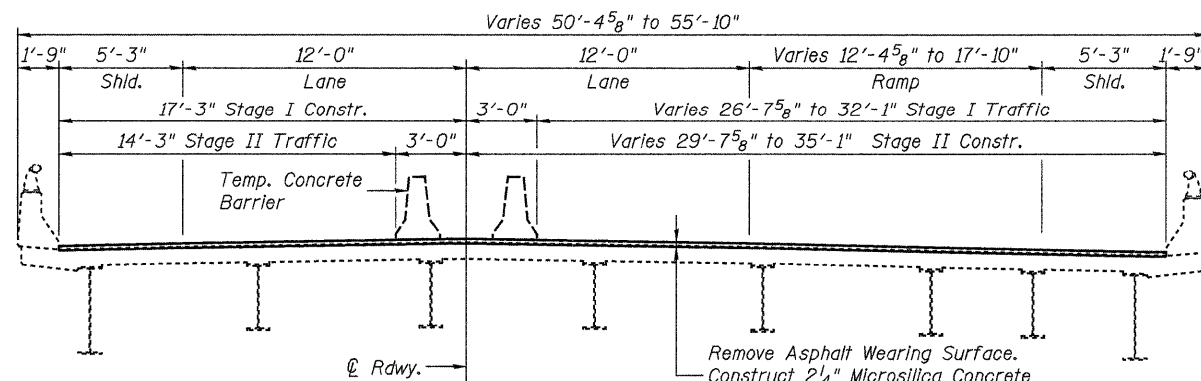
272'-11 1/4" End to End Slab



DECK PLAN-TOP (NB)



DECK PLAN-BOTTOM (NB)



CROSS SECTION
(Northbound, Looking West)

LEGEND

- Hollow or Unsound Concrete
- Spalled Concrete
- Spalled Concrete with Exposed Reinf.
- Hairline Crack

Johnson, Depp & Quisenberry
CONSULTING ENGINEERS
Springfield, Illinois

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

Notes:

Deck Condition Survey performed 9/17/2009.

Plan quantities assume that areas of "exposed reinforcing" greater than 5 sq. ft. will use Full-depth Type II repair.

Repair areas are estimated, the Engineer shall determine actual repair locations and record them on the As-Built plans.

Partial depth repairs are included with Bridge Deck Hydro-scarification, see Special Provision for Bridge Deck Microsilica Concrete Overlay.

BILL OF MATERIAL

Item	Unit	Total
Deck Slab Repair (Full Depth, Type II)	Sq. Yd.	0

DECK PLAN (NB)
STRUCTURE NO. 058-0108(SB) & 0109(NB)

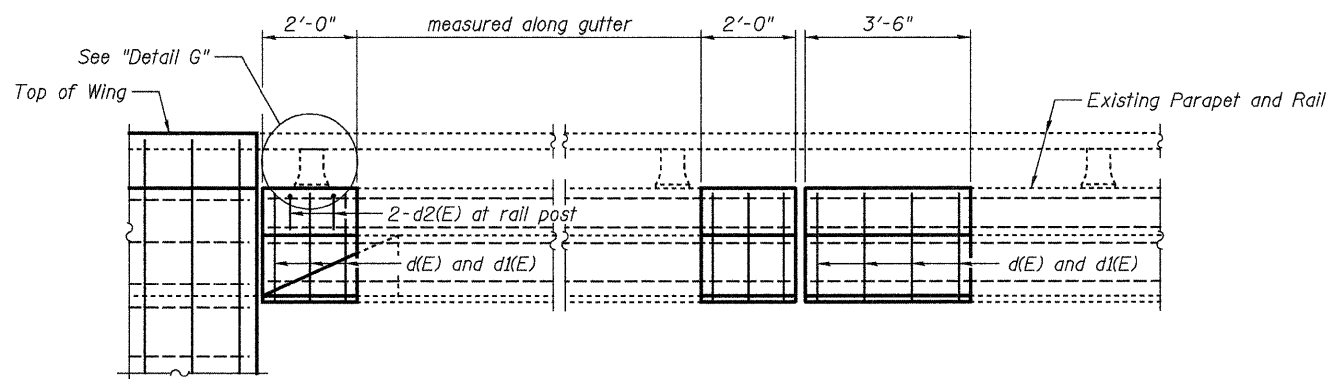
SHEET 7 OF 26	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	322	(58-20)RS	MACON	151	109
		STA. 235+00.78	CONTRACT NO. 74150		
		FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT		

FILE: J:\JDD\110177 IL-DTVV#8 US51 Bridge Repairs\3-IL48-NSRR\0580108-74150-007-superstr1-NB.dgn

USER: DCD

DATE: 04/09/2010 18:02:41

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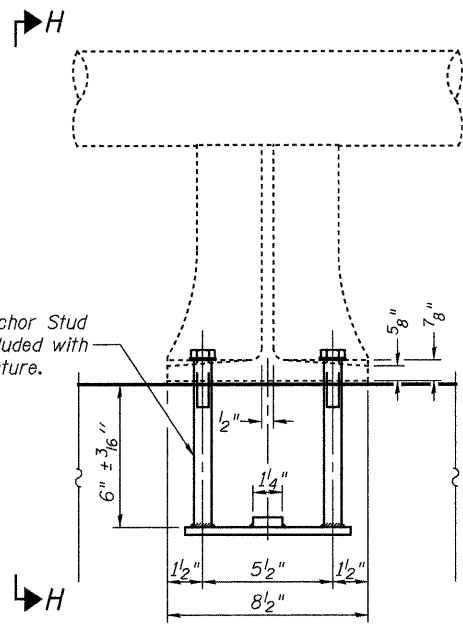
AT EAST ABUTMENT

AT SPAN 1

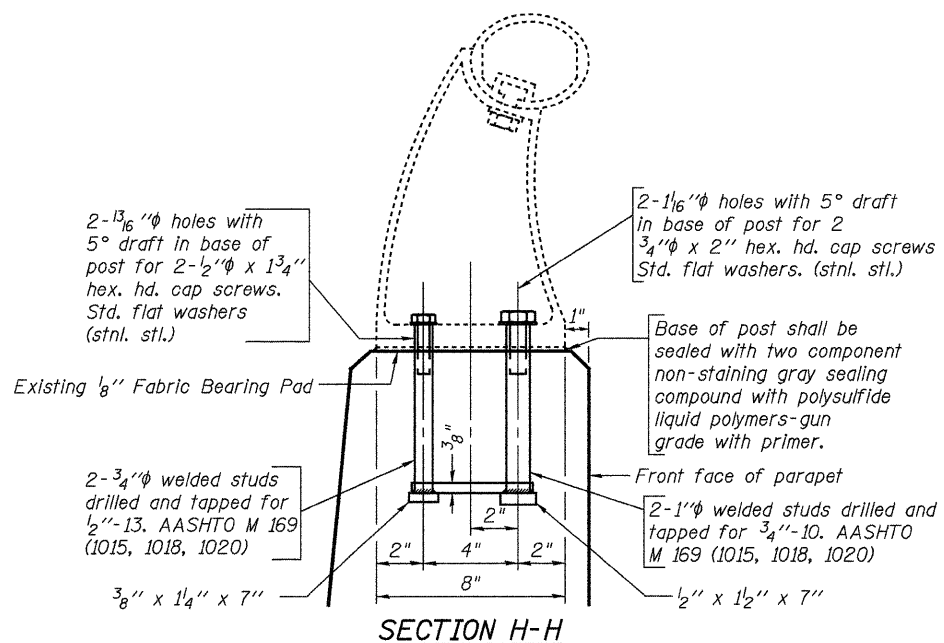
PARTIAL INSIDE ELEVATION OF PARAPET

(Span 3 & West Abutment similar)

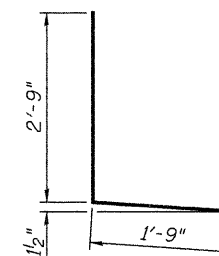
Replace existing Anchor Stud Assembly. Cost included with Concrete Superstructure.



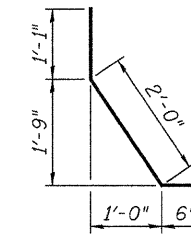
DETAIL G



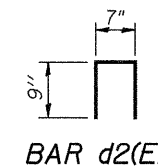
SECTION H-H



BAR d(E)



BAR d1(E)



BAR d2(E)

SUPERSTRUCTURE (SB)
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a(E)	60	#6	18'-1"	—
a1(E)	22	#6	25'-11"	—
a2(E)	32	#6	5'-0"	—
a4(E)	22	#6	23'-7"	—
a8(E)	8	#6	26'-5"	—
a9(E)	8	#6	22'-1"	—
d(E)	40	#4	4'-6"	L
d1(E)	40	#5	3'-7"	L
d2(E)	8	#4	2'-1"	Π
Reinforcement Bars, Epoxy Coated			Pound	4370
Concrete Superstructure			Cu. Yd.	29.9
Concrete Removal			Cu. Yd.	30.5

SUPERSTRUCTURE (NB)
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a(E)	60	#6	18'-1"	—
a2(E)	32	#6	5'-0"	—
a5(E)	22	#6	35'-3"	—
a7(E)	22	#6	32'-4"	—
a10(E)	8	#6	35'-11"	—
a11(E)	8	#6	30'-6"	—
d(E)	40	#4	4'-6"	L
d1(E)	40	#5	3'-7"	L
d2(E)	8	#4	2'-1"	Π
Reinforcement Bars, Epoxy Coated			Pound	5190
Concrete Superstructure			Cu. Yd.	37.6
Concrete Removal			Cu. Yd.	38.3

JD Johnson, Depp & Quisenberry
CONSULTING ENGINEERS
Springfield, Illinois

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

SUPERSTRUCTURE DETAILS
STRUCTURE NO. 058-0108(SB) & 0109(NB)

SHEET 10 OF 26	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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STA. 235+00.78		CONTRACT NO. 74150			
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT			

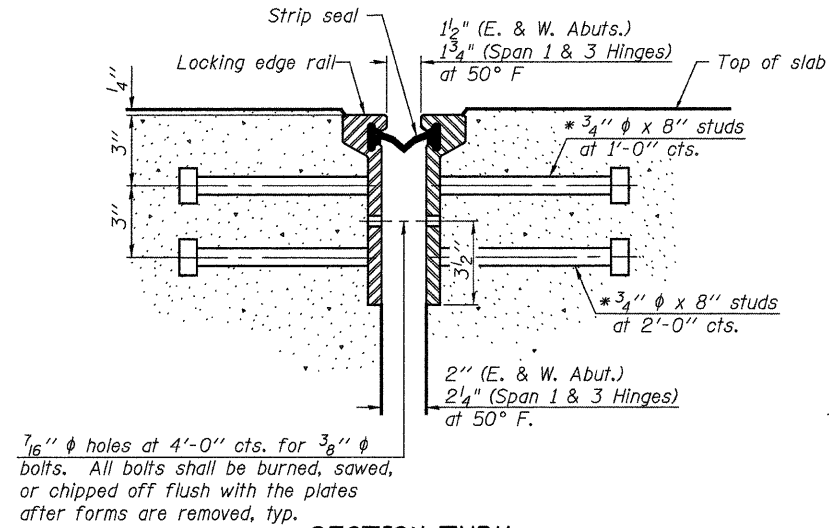
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USER: DCD

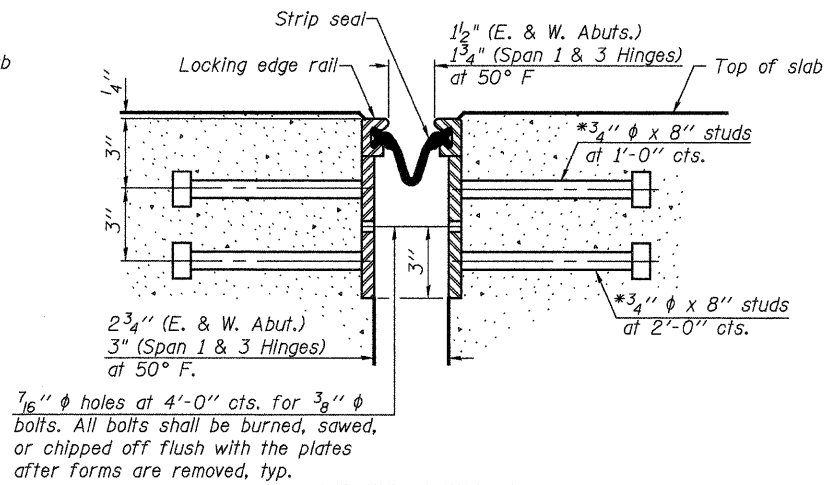
DATE: 04/09/2010 18:02:50

* Granular or solid flux filled headed studs conforming to Article 1006.32 of the Std. Specs., automatically end welded.

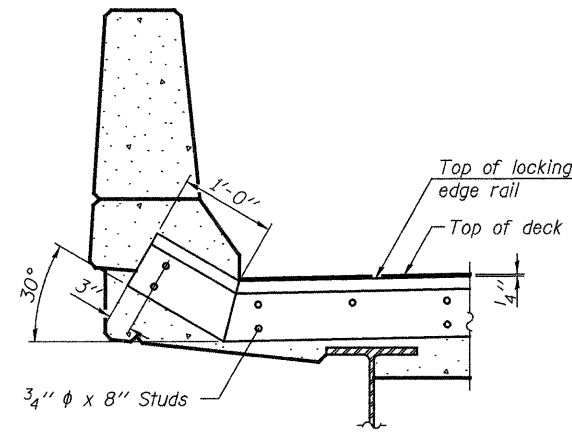
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



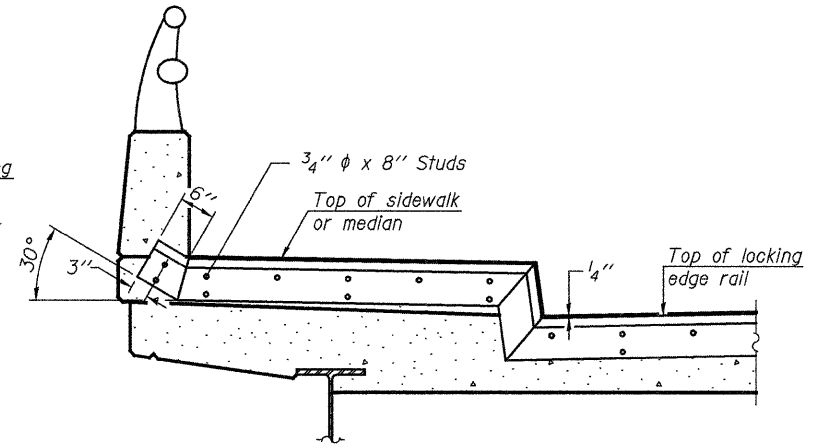
SECTION THRU
ROLLED RAIL JOINT



SECTION THRU
WELDED RAIL JOINT



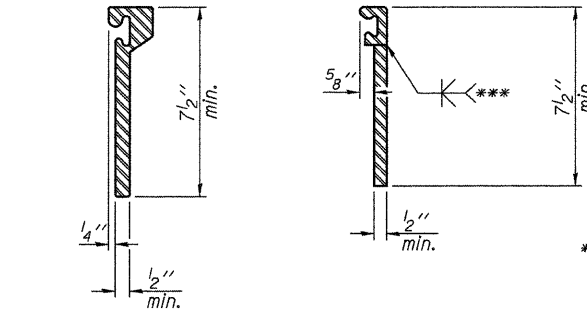
AT PARAPET
See Section A-A for end
treatment of skews > 30°.



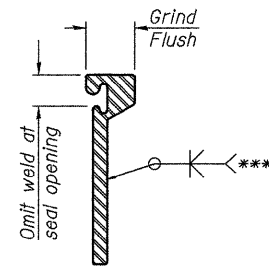
AT SIDEWALK OR MEDIAN
Shorter plates with a single row of studs
at 12\"/>

7/16" φ holes at 4'-0" cts. for 3/8" φ bolts. All bolts shall be burned, sawed, or chipped off flush with the plates after forms are removed, typ.

7/16" φ holes at 4'-0" cts. for 3/8" φ bolts. All bolts shall be burned, sawed, or chipped off flush with the plates after forms are removed, typ.



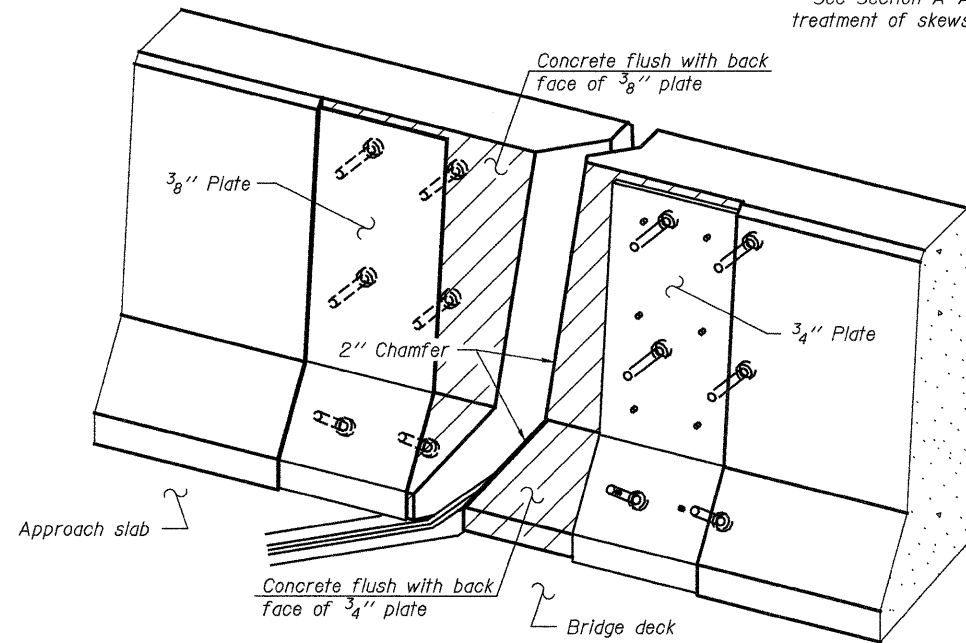
ROLLED
EXTRUDED RAIL WELDED RAIL



*** Back gouge not required if complete joint penetration is verified by mock-up.

LOCKING EDGE
RAIL SPLICE

The inside of the locking edge rail groove shall be free of weld residue.
Rolled rail shown, welded rail similar.



TYPICAL END TREATMENTS

Notes:

The strip seal shall be made continuous and shall have a minimum thickness of 1/4". The configuration of the strip seal shall match the configuration of the Locking Edge Rails. Open or "webbed" strip seal gland configurations are not permitted. The gland shall be sized for a maximum rated movement of 4 inches.

The Locking Edge Rails depicted are conceptual only, except for the minimum dimensions shown. The actual configuration of the Locking Edge Rails and matching strip seal may vary from manufacturer to manufacturer. Flanged edge rails will not be allowed. Locking Edge Rails may be spliced at slope discontinuities.

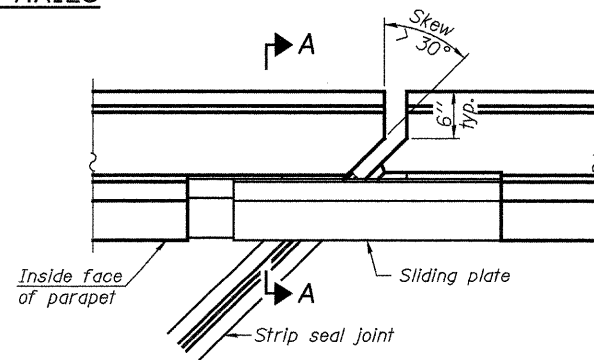
The manufacturer's recommended installation methods shall be followed.

The joint opening and deck dimensions detailed on the superstructure are based on a rolled rail expansion joint. If the Contractor elects to use the welded rail expansion joint, the opening and deck dimensions shall be modified according to the dimensions detailed on this sheet. Required modifications shall be made at no additional cost to the State.

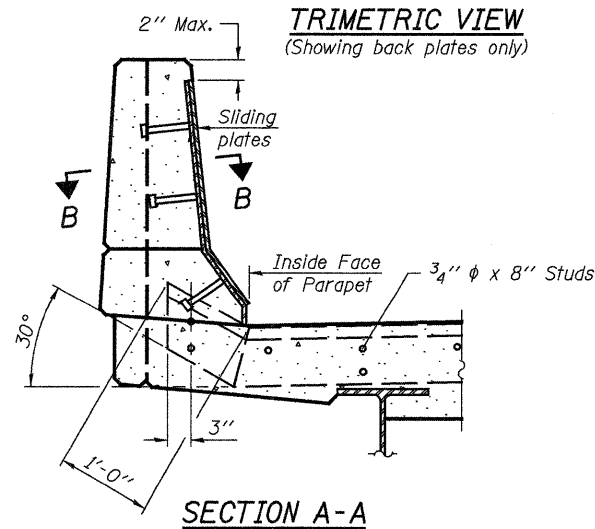
All steel components shall be galvanized after fabrication according to Article 520.03 of the Standard Specifications.

Maximum space between rail segments at stage lines shall be 3/16", sealed with a suitable sealant.

LOCKING EDGE RAILS

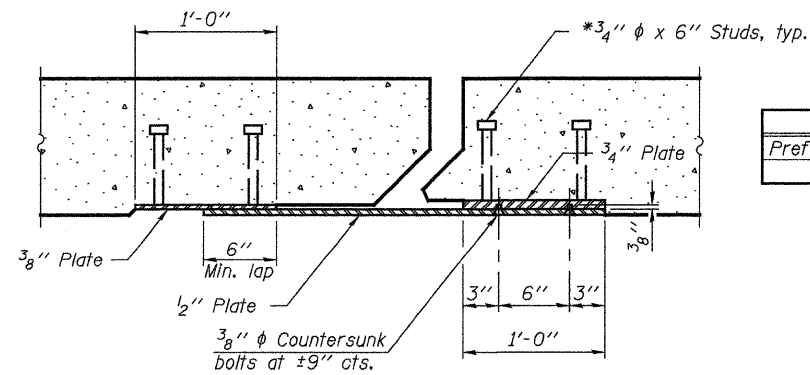


PLAN



SECTION A-A

POINT BLOCK DETAILS
(for skews > 30°)



SECTION B-B

BILL OF MATERIAL

Item	Unit	SB Bridge	NB Bridge
Preformed Joint Strip Seal	Foot	173	209

PREFORMED JOINT STRIP SEAL
STRUCTURE NO. 058-0108(SB) & 0109(NB)

SHEET 11 OF 26	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	322	158-201RS	MACON	151	113
STA. 235+00.78		CONTRACT NO. 74150			
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT			

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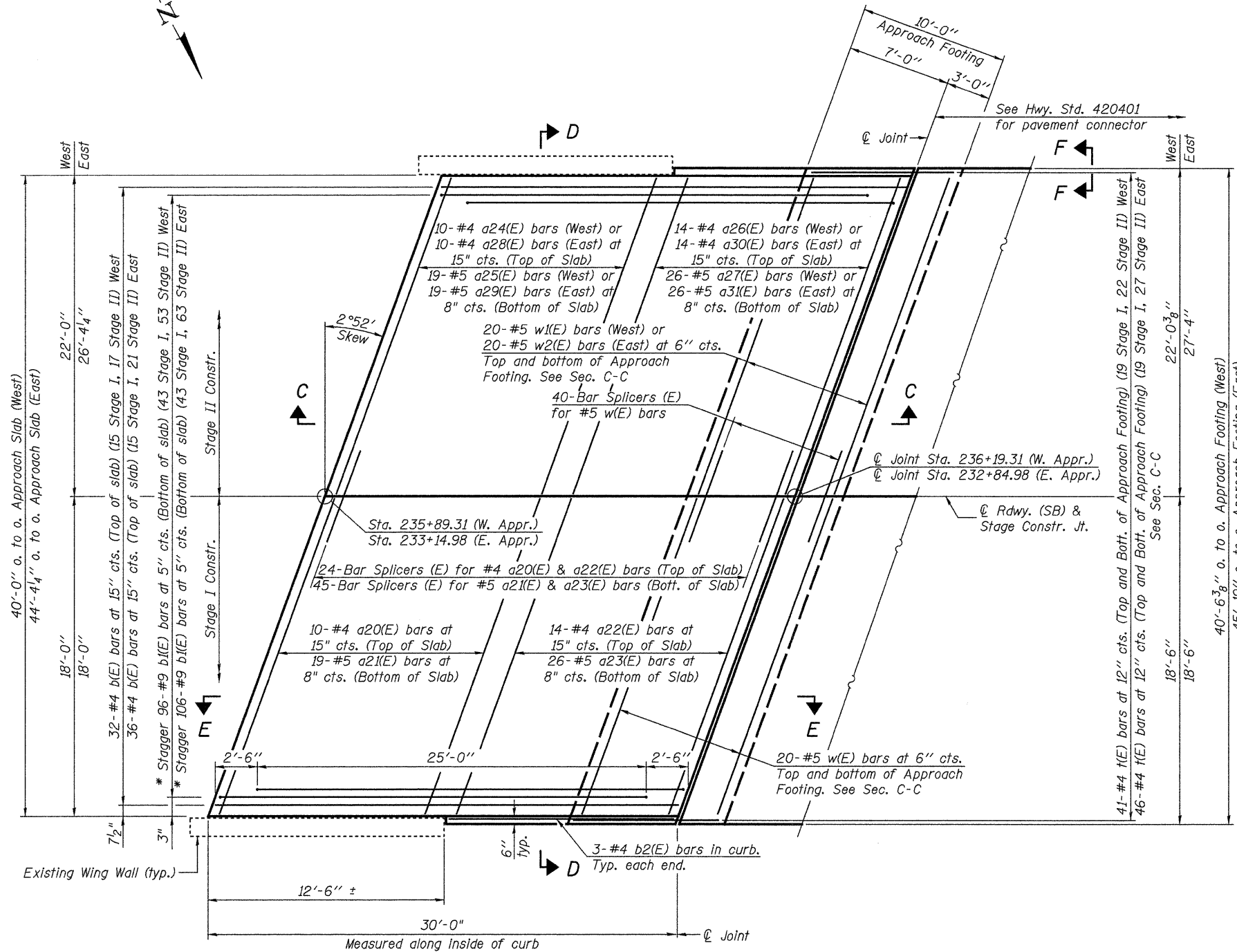
DESIGNED: JDQ	DRAWN: PTR
CHECKED: DCD	CHECKED: DCD

EJ-SSJ

11-1-09

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DEPARTMENT OF TRANSPORTATION

Notes:
See sheet 13 of 26 for Sections C-C & D-D and View E-E.
a20(E) thru a31(E) bar spacings measured along ϕ Rdwy.

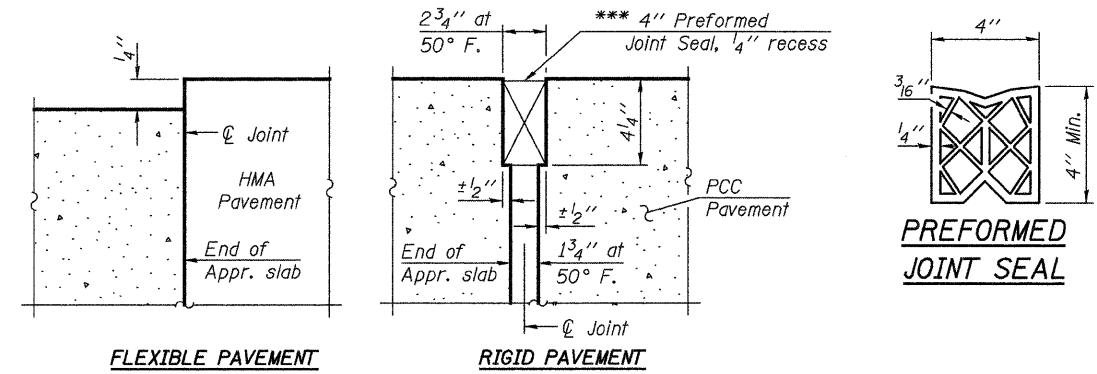


PLAN

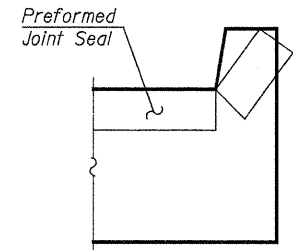
(West Approach shown, East Approach similar)

* Tilt #9 b(E) bars as required to maintain clearance.

*** Cost included with Concrete Superstructure.

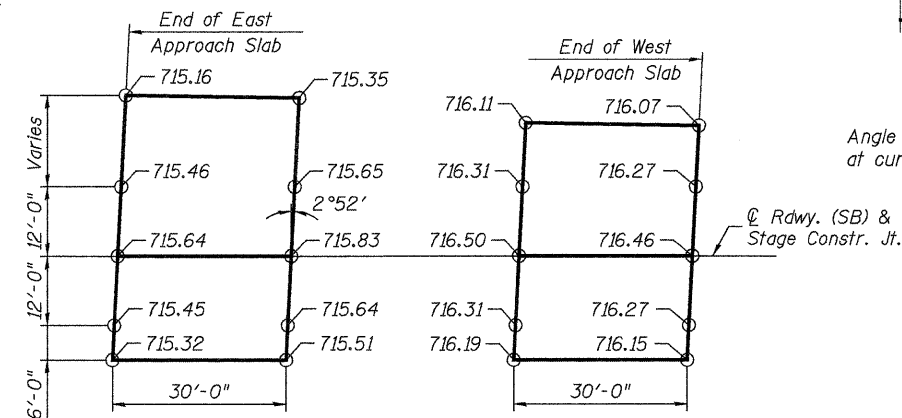


DETAIL A



VIEW F-F

Angle Preformed Joint Seal at 45° at curbs when req'd for drainage.



TOP OF APPROACH SLAB ELEVATIONS

NOTE:
Proposed elevations are based on the original 1975 plan elevations, increased by 0.02' (1/4") to account for the proposed deck overlay. The top of the existing pavement at the abutment backwall can be used as a temporary benchmark by assuming the following elevations:
Back of East Abut. original PG Elev. 715.81
Back of West Abut. original PG Elev. 716.48

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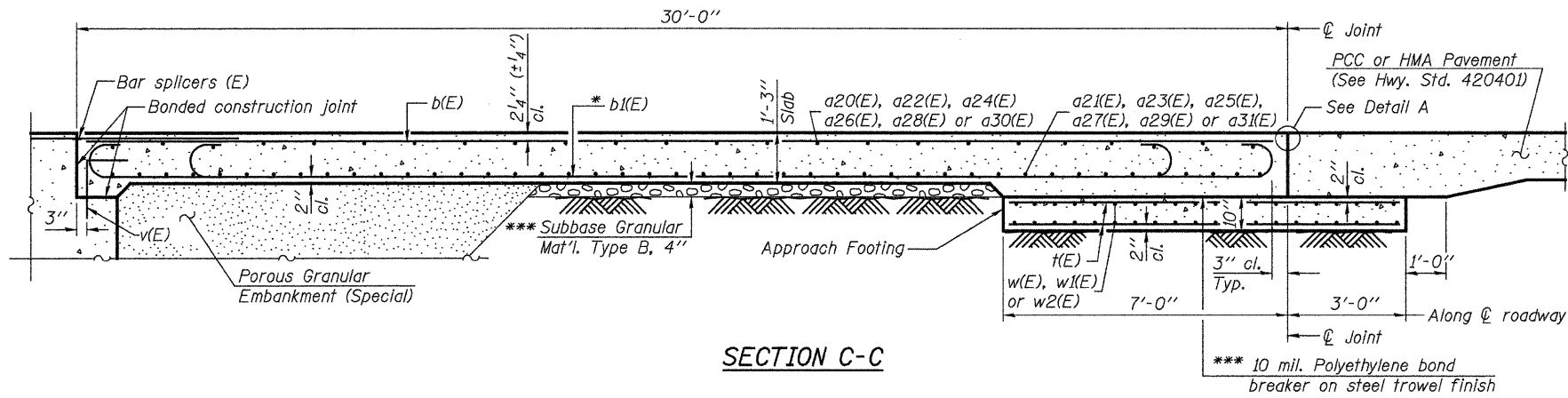
DESIGNED: JDQ	DRAWN: P. Ray
CHECKED: DCD	CHECKED: DCD

BA-L 11-1-09 (Modified)

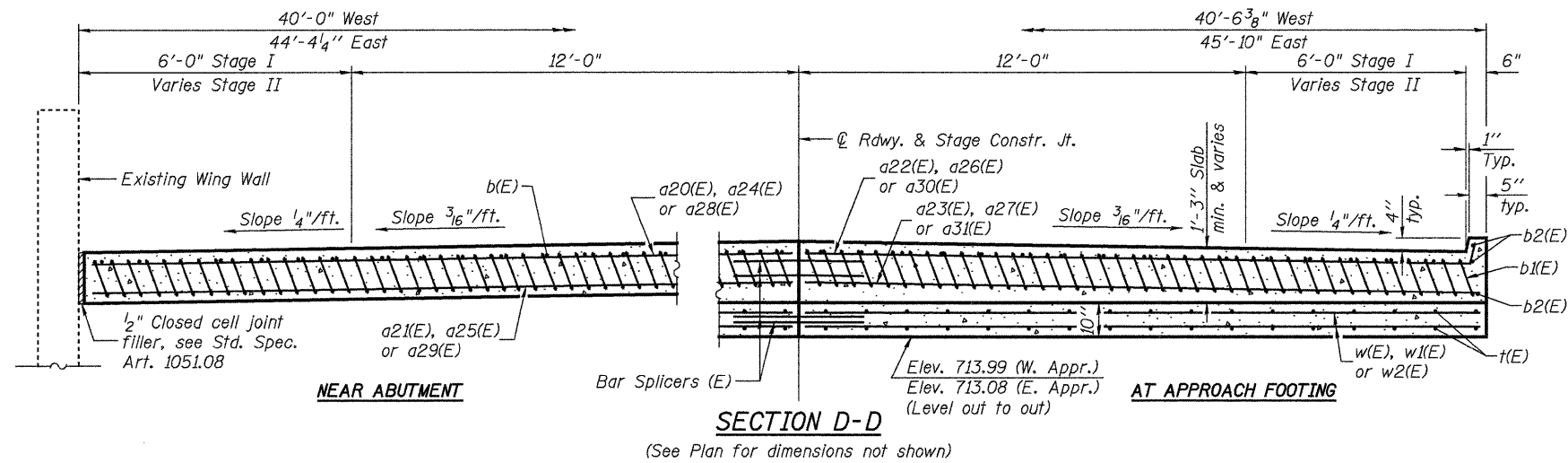
(Sheet 1 of 2)
BRIDGE APPROACH SLAB DETAILS (SB)
STRUCTURE NO. 058-0108(SB) & 0109(NB)

SHEET 12 OF 26	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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STA. 235+00.78		CONTRACT NO. 74150			
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT			

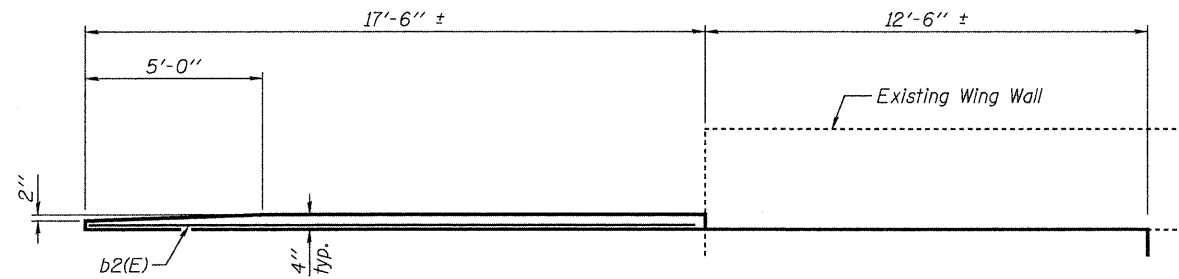
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



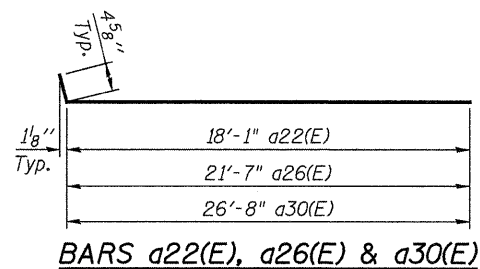
SECTION C-C



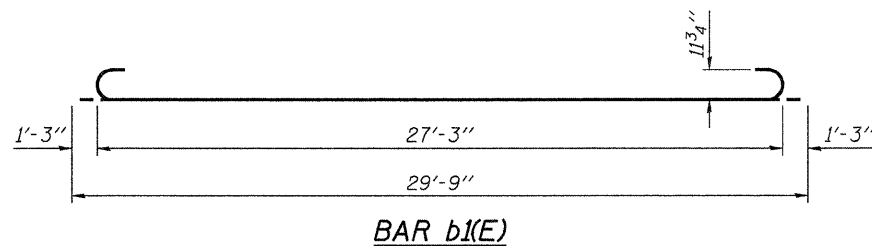
SECTION D-D
(See Plan for dimensions not shown)



VIEW E-E



BARS a22(E), a26(E) & a30(E)



BAR b1(E)

Notes:

See sheet 12 of 26 for Detail A and View F-F.
Approach slab and parapet concrete shall be paid for as Concrete Superstructure.
Approach footing concrete shall be paid for as Concrete Structures.
Reinforcement shall be paid for as Reinforcement Bars, Epoxy Coated.
For v(E) bar details, see sheet 18 & 19 of 26.
The approach footing maximum applied service bearing pressure (Qmax) = 2.0 ksf.
For bar splicer details, see sheet 25 of 26.
Cost of excavation for approach footing included with Concrete Structures.
For Porous Granular Embankment (Special) and drainage treatment details, see sheet 2 of 26.

* Tilt #9 b1(E) bars as required to maintain clearance.
*** Cost included with Concrete Superstructure.

TWO APPROACHES
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a20(E)	20	#4	17'-8"	—
a21(E)	38	#5	17'-8"	—
a22(E)	28	#4	18'-6"	—
a23(E)	52	#5	18'-2"	—
a24(E)	10	#4	21'-6"	—
a25(E)	19	#5	21'-6"	—
a26(E)	14	#4	22'-0"	—
a27(E)	26	#5	21'-8"	—
a28(E)	10	#4	26'-0"	—
a29(E)	19	#5	26'-0"	—
a30(E)	14	#4	27'-1"	—
a31(E)	26	#5	26'-9"	—
b(E)	68	#4	29'-8"	—
b1(E)	202	#9	29'-9"	—
b2(E)	12	#4	17'-2"	—
t(E)	174	#4	9'-8"	—
w(E)	80	#5	18'-2"	—
w1(E)	40	#5	21'-8"	—
w2(E)	40	#5	26'-11"	—
Concrete Superstructure		Cu. Yd.	124.3	
Concrete Structures		Cu. Yd.	26.7	
Reinforcement Bars, Epoxy Coated		Pound	31880	

JD Johnson, Depp & Quisenberry
CONSULTING ENGINEERS
Springfield, Illinois

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

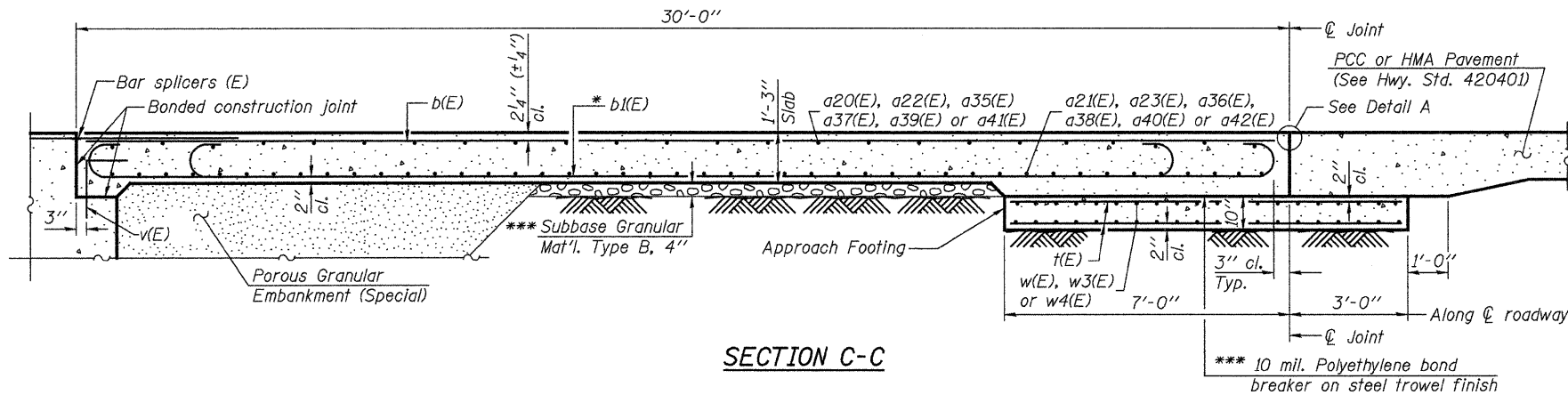
BA-L 11-1-09 (Modified)

(Sheet 2 of 2)
BRIDGE APPROACH SLAB DETAILS (SB)
STRUCTURE NO. 058-0108(SB) & 0109(NB)

SHEET 13 OF 26	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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STA. 235+00.78		CONTRACT NO. 74150			
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT			

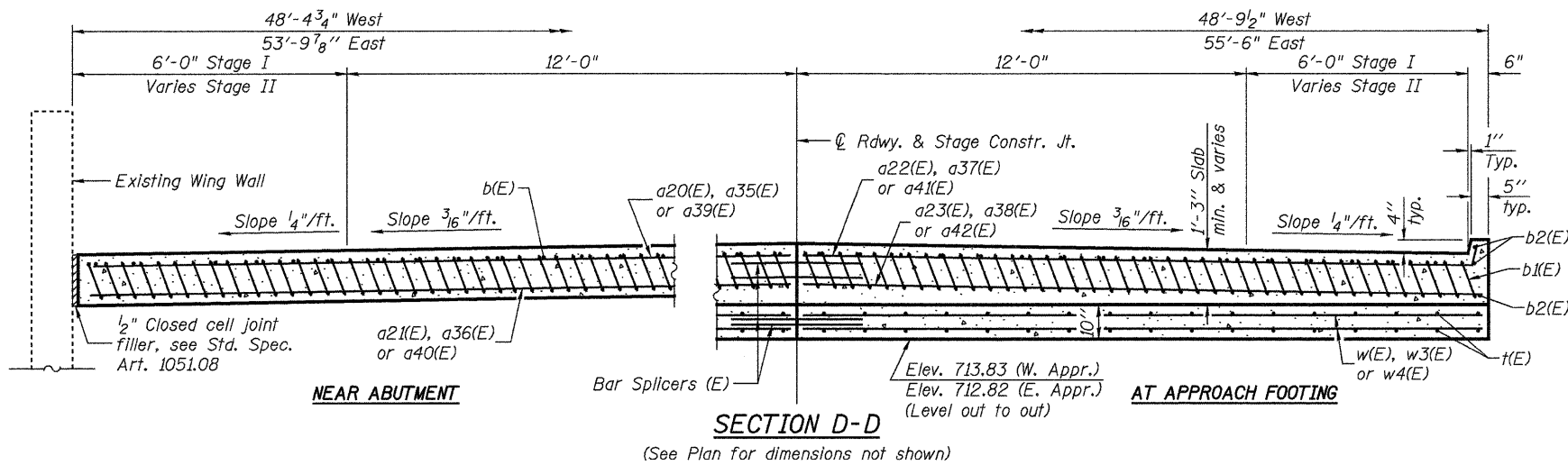
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DEPARTMENT OF TRANSPORTATION

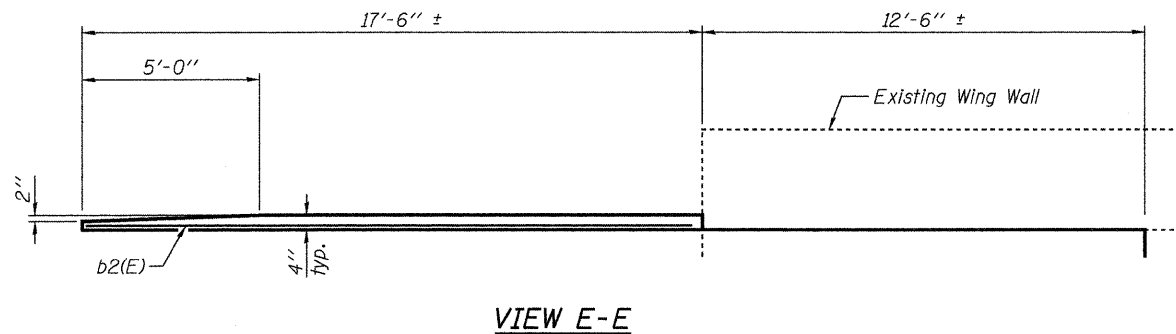


Notes:

See sheet 14 of 26 for Detail A and View F-F.
Approach slab and parapet concrete shall be paid for as Concrete Superstructure.
Approach footing concrete shall be paid for as Concrete Structures.
Reinforcement shall be paid for as Reinforcement Bars, Epoxy Coated.
For v(E) bar details, see sheet 21 & 22 of 26.
The approach footing maximum applied service bearing pressure (Qmax) = 2.0 ksf.
For bar splicer details, see sheet 25 of 26.
Cost of excavation for approach footing included with Concrete Structures.
For Porous Granular Embankment (Special) and drainage treatment details, see sheet 2 of 26.

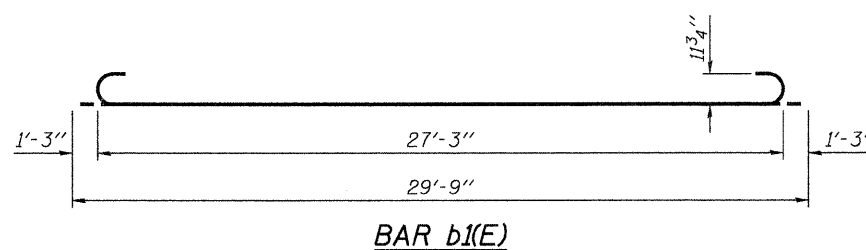
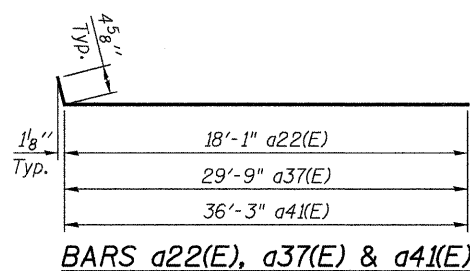


* Tilt #9 b1(E) bars as required to maintain clearance.
*** Cost included with Concrete Superstructure.



TWO APPROACHES
BILL OF MATERIAL

Bar	No.	Size	Length	Shape	
a20(E)	20	#4	17'-8"	—	
a21(E)	38	#5	17'-8"	—	
a22(E)	28	#4	18'-6"	—	
a23(E)	52	#5	18'-2"	—	
a35(E)	10	#4	29'-10"	—	
a36(E)	19	#5	29'-10"	—	
a37(E)	14	#4	30'-2"	—	
a38(E)	26	#5	29'-10"	—	
a39(E)	10	#4	35'-6"	—	
a40(E)	19	#5	35'-6"	—	
a41(E)	14	#4	36'-8"	—	
a42(E)	26	#5	36'-4"	—	
b(E)	82	#4	29'-8"	—	
b1(E)	245	#9	29'-9"	—	
b2(E)	12	#4	17'-2"	—	
t(E)	210	#4	9'-8"	—	
w(E)	80	#5	18'-2"	—	
w3(E)	40	#5	30'-0"	—	
w4(E)	40	#5	36'-7"	—	
Concrete Superstructure				Cu. Yd.	151.4
Concrete Structures				Cu. Yd.	32.2
Reinforcement Bars, Epoxy Coated				Pound	38610



JD Johnson, Depp & Guisenberry
CONSULTING ENGINEERS
Springfield, Illinois

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

BA-R 11-1-09 (Modified)

(Sheet 2 of 2)
BRIDGE APPROACH SLAB DETAILS (NB)
STRUCTURE NO. 058-0108(SB) & 0109(NB)

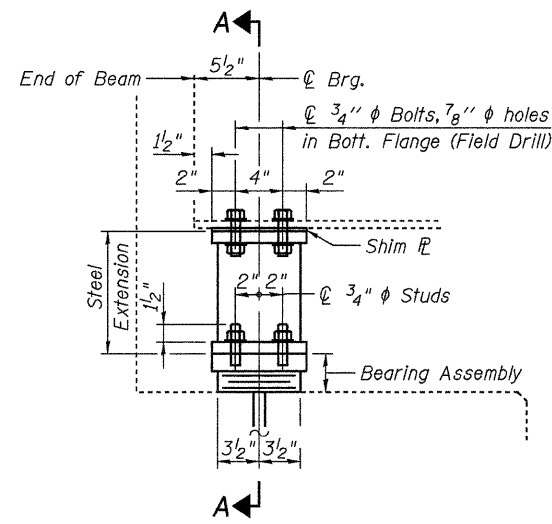
SHEET 15 OF 26	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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		STA. 235+00.78	CONTRACT NO.	74150	
		FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT		

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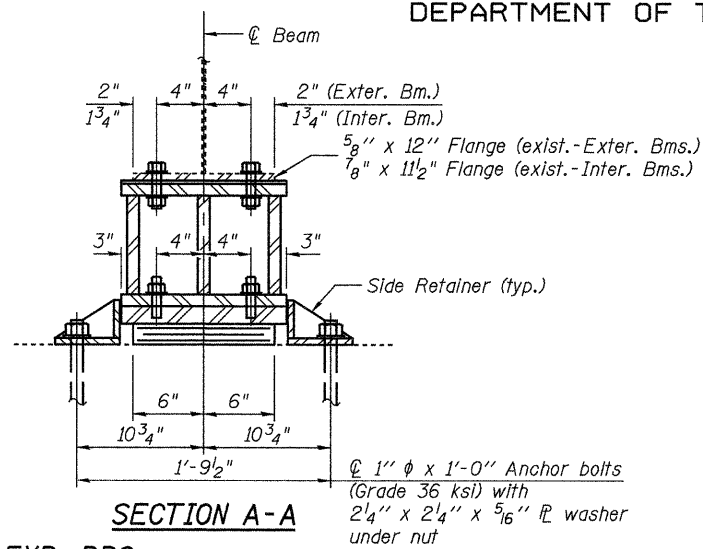
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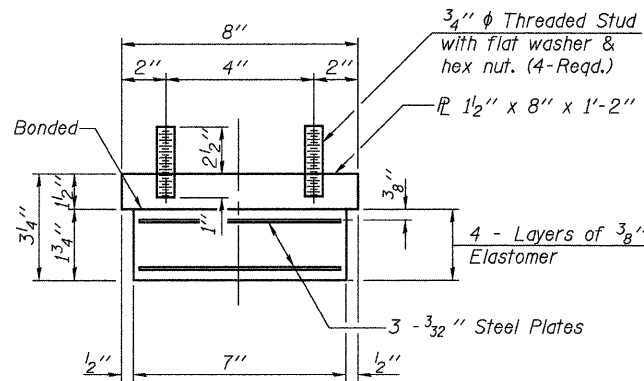


ELEVATION



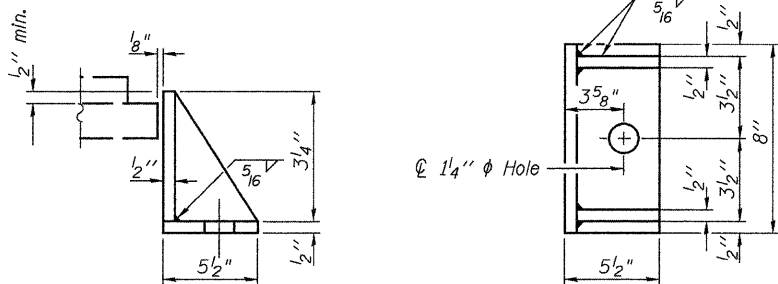
SECTION A-A

TYPE I ELASTOMERIC EXP. BRG.



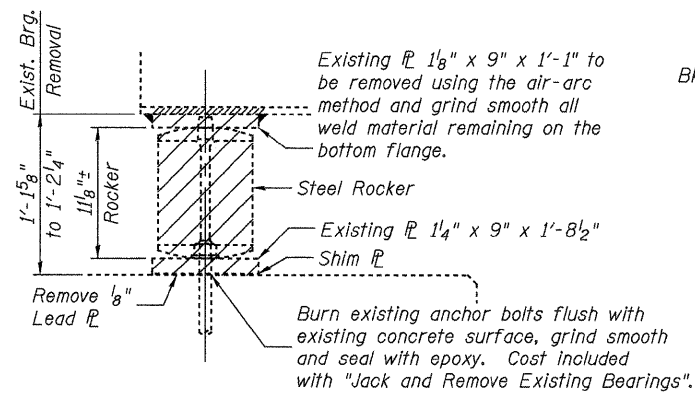
BEARING ASSEMBLY

Note:
Shim plates shall not be placed under Bearing Assembly.

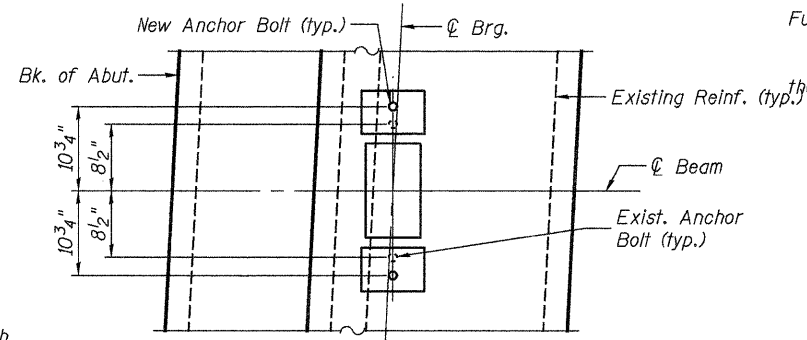


SIDE RETAINER

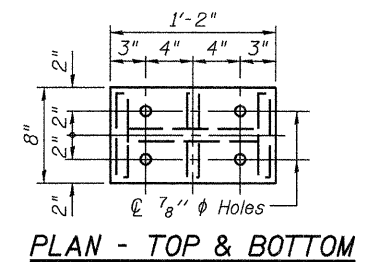
Equivalent rolled angle with stiffeners will be allowed in lieu of welded plates.



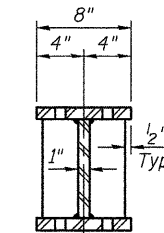
EXISTING BEARING REMOVAL



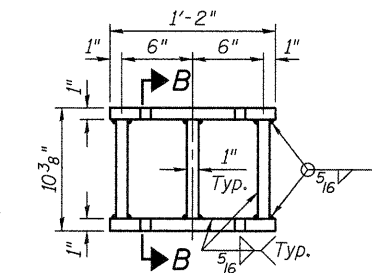
ANCHOR BOLT LAYOUT



PLAN - TOP & BOTTOM



SECTION B-B



ELEVATION

STEEL EXTENSION

Notes:
Anchor bolts shall be ASTM F1554 all-thread (or an Engineer-approved alternate material) of the grade(s) and diameter(s) specified. ASTM A307 Grade C anchor bolts may be used in lieu of ASTM F1554 Grade 36 (Fy=36ksi). The corresponding specified grade of AASHTO M314 anchor bolts may be used in lieu of ASTM F1554.
Anchor bolts for side retainers shall be installed in holes drilled after members are in place.
Drilled and set anchor bolts shall be installed according to Article 521.06 of the Standard Specifications.
Side retainers and other steel members required for the bearing assembly shall be included in the cost of Elastomeric Bearing Assembly, Type I.

Notes:
Existing expansion bearings shall be removed and replaced according to the plans. Jacking shall be according to the Special Provisions for "JACK AND REMOVE EXISTING BEARINGS". If web stiffeners are not present directly over the jack location, hardwood timbers shall be installed tightly between top and bottom flanges to prevent rotation.

The abutment bearings shall be in place and the jacks lowered before the new concrete deck is poured at the abutments.

Diaphragm removal and replacement may be required to facilitate drilling holes. Cost shall be included with Furnishing and Erecting Structural Steel.

Prior to ordering any material, the Contractor shall verify in the field all bearing height and shim thickness dimensions. Existing bearing dimensions shown are copied from the original plans.

Two 1/8 in. adjusting shims shall be provided for each bearing in addition to all other plates or shims and placed as shown on bearing details.

New steel extensions, shim plates and connection bolts are included with Furnishing and Erecting Structural Steel.

The structural steel bearing plates for the expansion bearings shall conform to the requirements of AASHTO M 270 Grade 36 (min.).

BILL OF MATERIAL

Item	Unit	SB Bridge	NB Bridge
Jack and Remove Existing Bearings	Each	7	8
Elastomeric Bearing Assembly Type I	Each	7	8
Furnishing and Erecting Structural Steel	Pound	1090	1240
Anchor Bolts, 1"	Each	14	16

SHIM THICKNESS TABLE

Location	Beam 3			
W. Abut. (SB)	1/4"			
W. Abut. (NB)	5/8"			

INTERIOR GIRDER REACTION TABLE		
		W. Abut.
R (DL)	(K)	24.4
R (LL)	(K)	35.3
R (Imp)	(K)	10.3
R (Total)	(K)	70.0
Minimum Jack Capacity	(Tons)	40

BEARINGS - WEST ABUTMENT
STRUCTURE NO. 058-0108(SB) & 0109(NB)

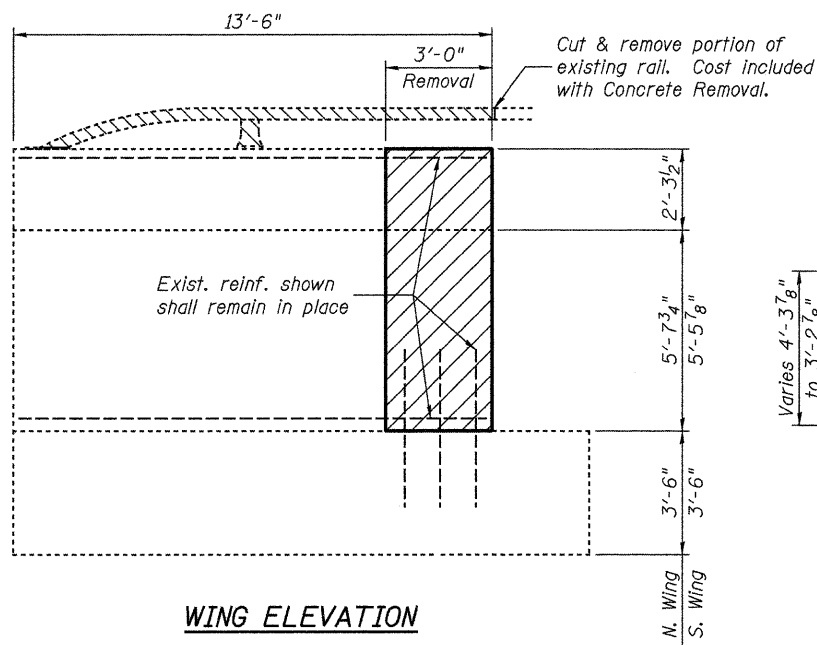
SHEET 16 OF 26	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	322	(58-20)RS	MACON	151	118
STA. 235+00.78		CONTRACT NO. 74150			
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT			

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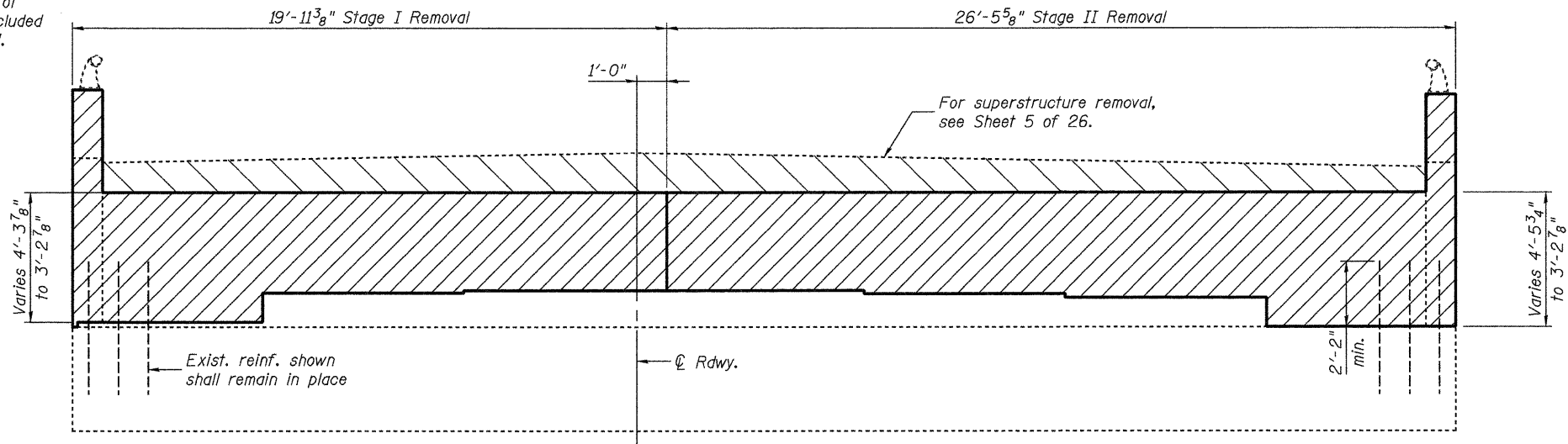
DESIGNED: JDQ DRAWN: PTR
CHECKED: DCD CHECKED: DCD

I-2E-1 11-1-09 (Modified)

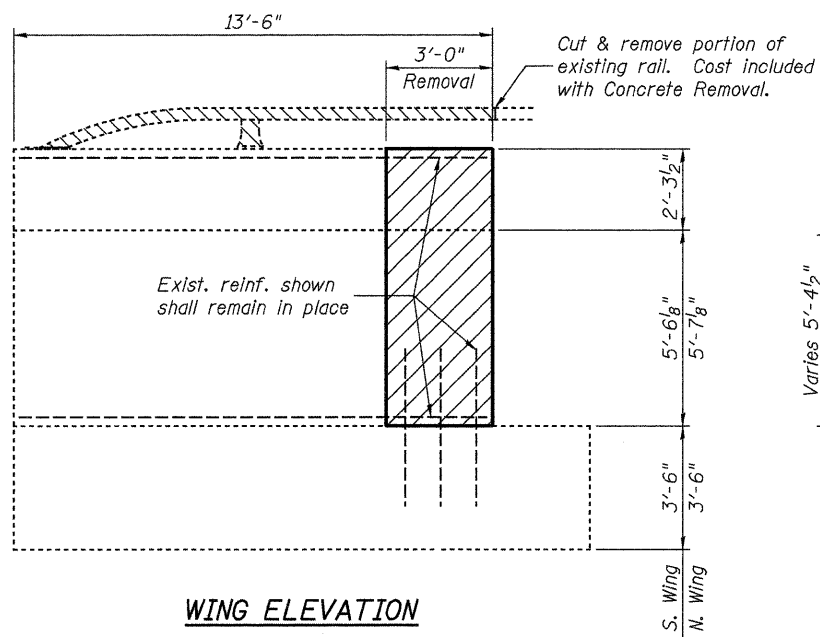
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



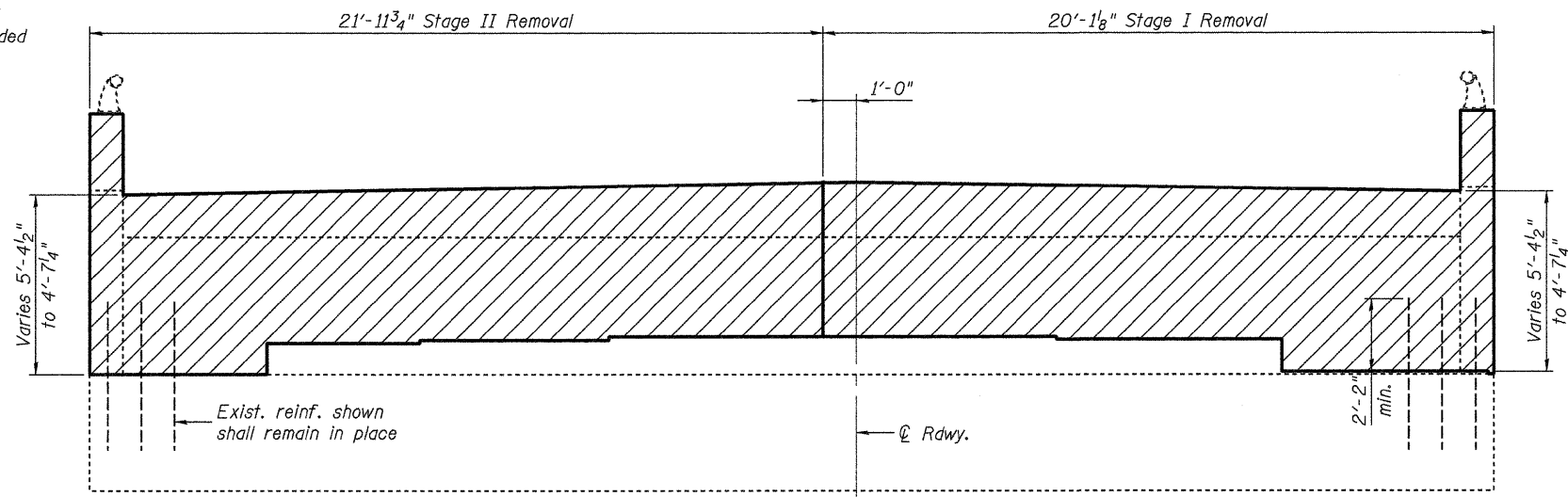
WING ELEVATION



ELEVATION EAST ABUTMENT



WING ELEVATION



ELEVATION WEST ABUTMENT

Indicates Limits of Concrete Removal.

Note:
Quantities for Concrete Removal are included on sheets 18 and 19 of 26.

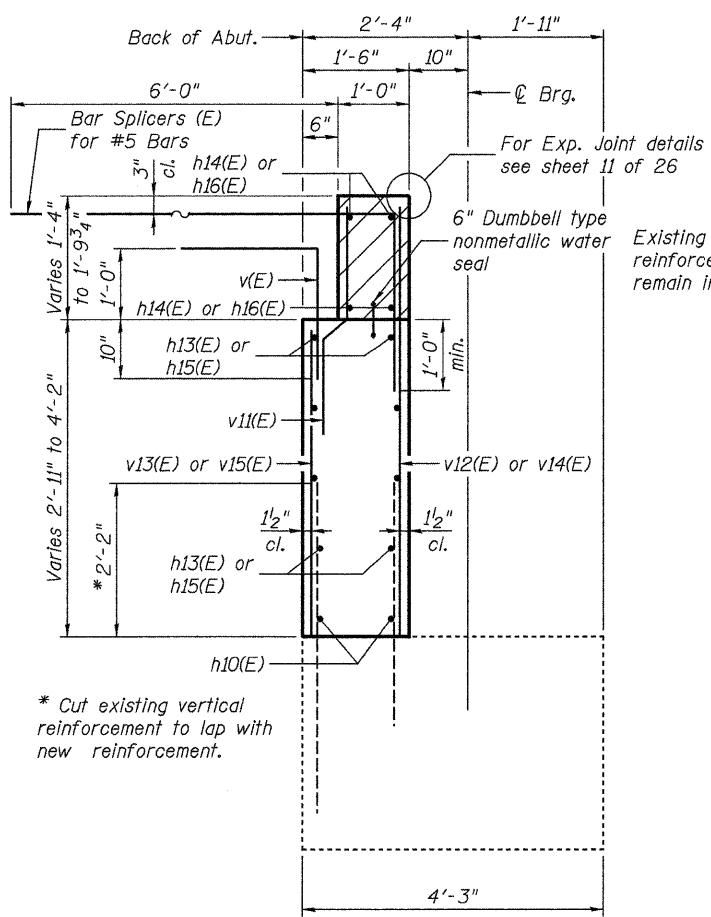
Johnson, Depp & Quisenberry
CONSULTING ENGINEERS
Springfield, Illinois

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

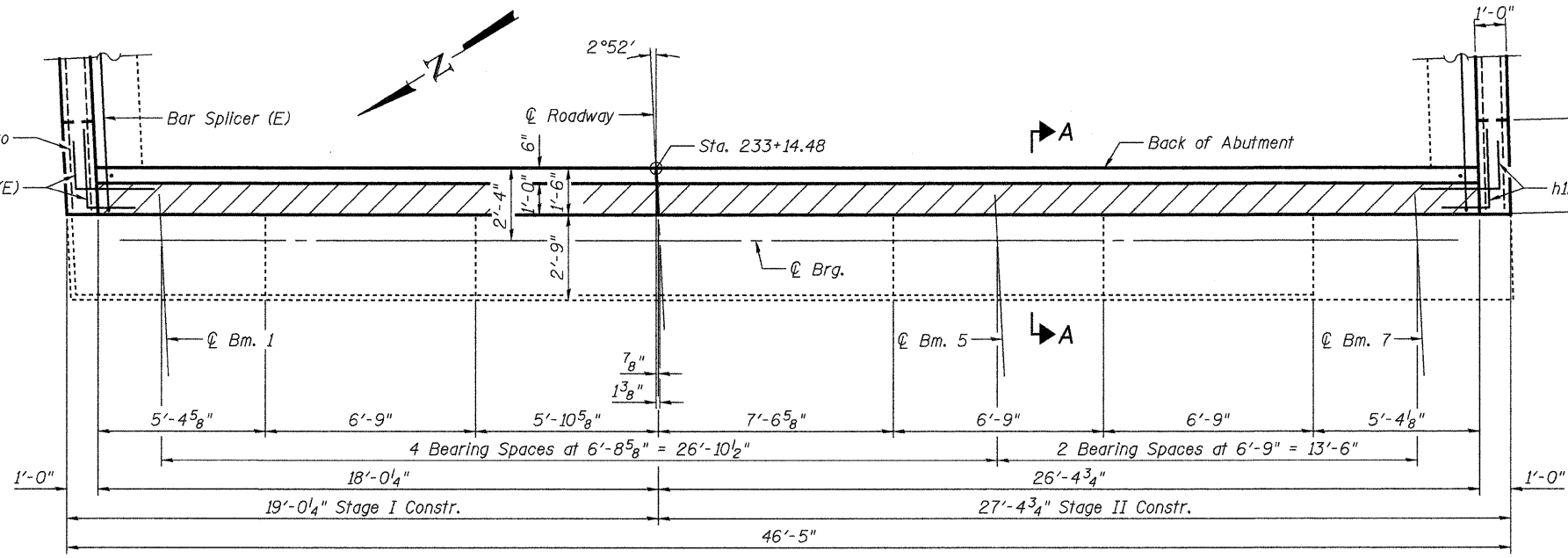
ABUTMENT - REMOVAL (SB)
STRUCTURE NO. 058-0108(SB) & 0109(NB)

SHEET 17 OF 26	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	322	(58-20)RS	MACON	151	119
STA. 235+00.78			CONTRACT NO. 74150		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT			

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

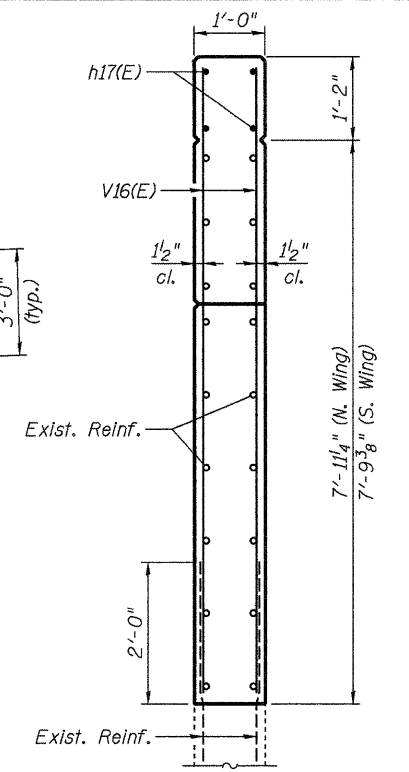


SECTION A-A



PLAN

Hatched area to be poured after superstructure false work has been removed. Quantity of concrete included with Concrete Superstructure.

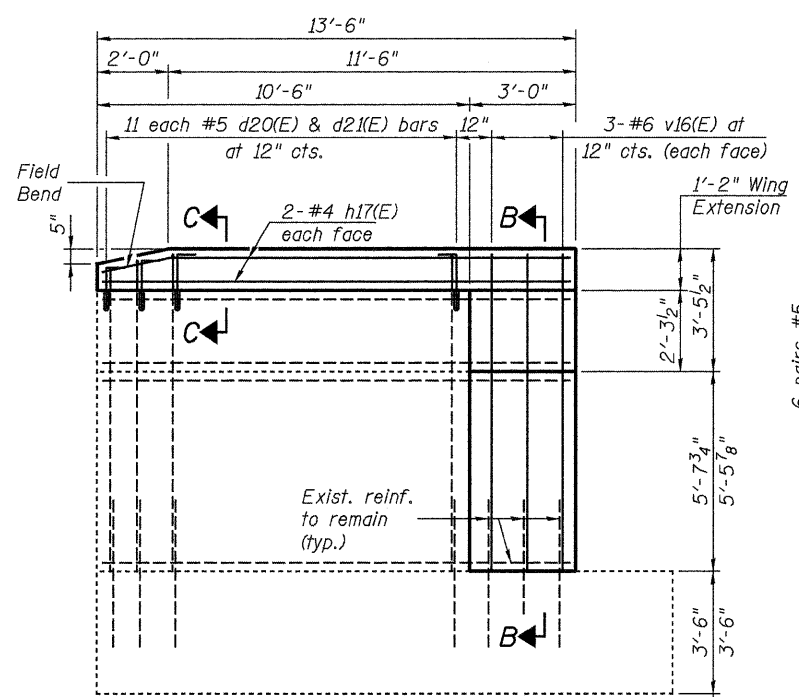


SECTION B-B

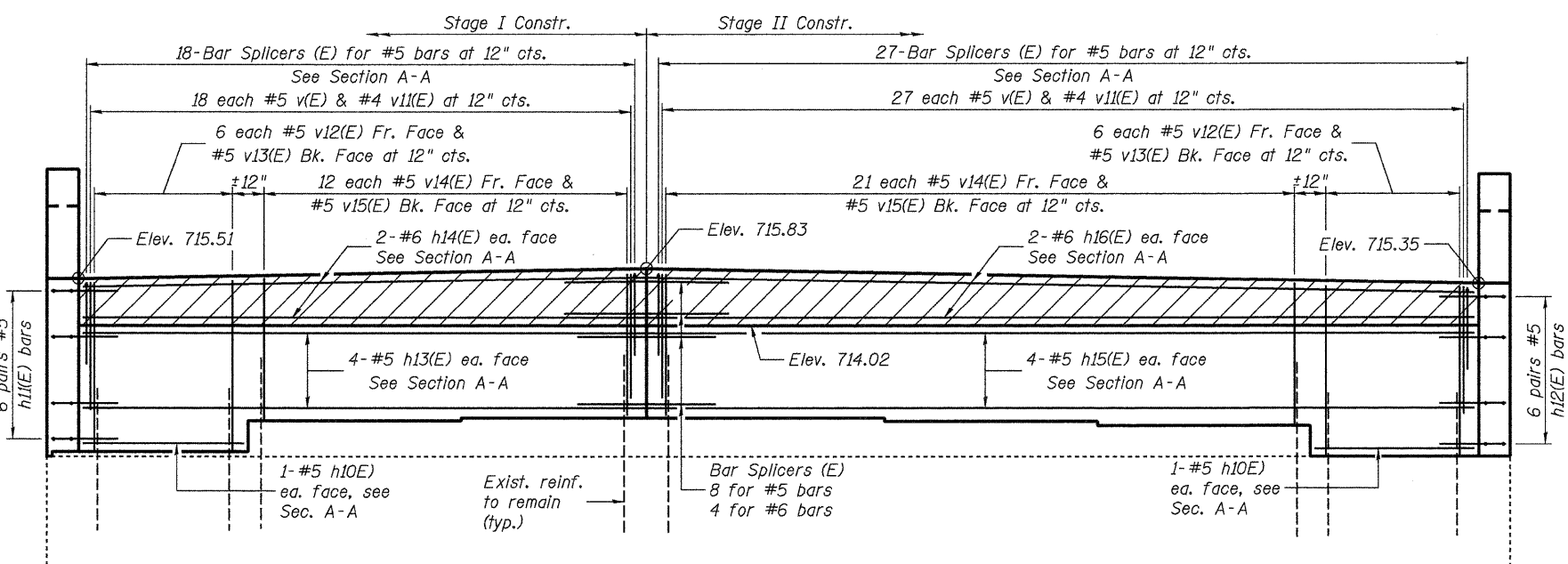
ABUTMENT
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
d20(E)	22	#5	2'-7"	□
d21(E)	22	#5	2'-0"	└
h10(E)	4	#5	6'-0"	—
h11(E)	12	#5	4'-0"	└
h12(E)	12	#5	4'-0"	└
h13(E)	8	#5	18'-8"	—
h14(E)	4	#6	17'-8"	—
h15(E)	8	#5	27'-0"	—
h16(E)	4	#6	26'-0"	—
h17(E)	8	#4	13'-0"	—
v(E)	45	#5	3'-9"	└
v11(E)	45	#4	3'-2"	└
v12(E)	12	#5	5'-2"	—
v13(E)	12	#5	3'-9"	—
v14(E)	33	#5	4'-3"	—
v15(E)	33	#5	2'-8"	—
v16(E)	12	#6	8'-7"	—
Structure Excavation			Cu. Yd.	84
Concrete Removal			Cu. Yd.	11.2
Concrete Structures			Cu. Yd.	11.0
Concr. Superstructure			Cu. Yd.	2.7
Reinforcement Bars, Epoxy Coated			Pound	1720

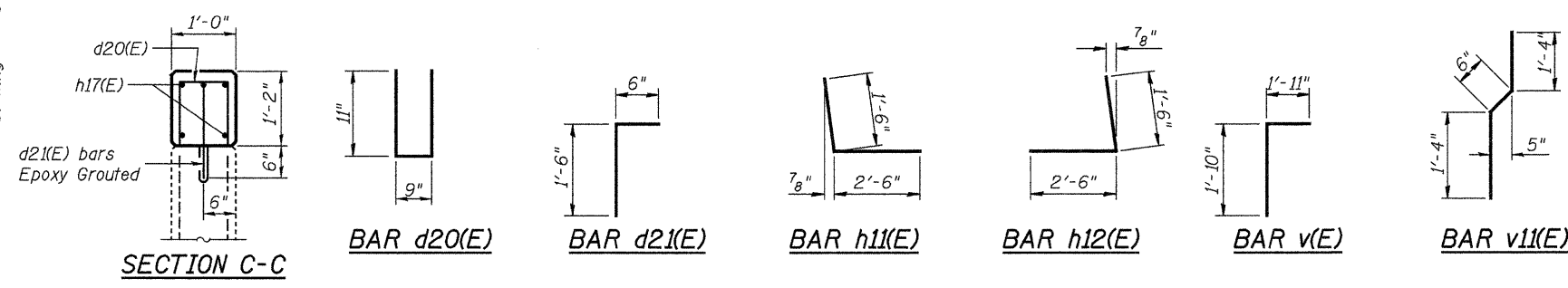
For details of Bar Splicers, see sheet 25 of 26.



WING ELEVATION



ELEVATION



SECTION C-C

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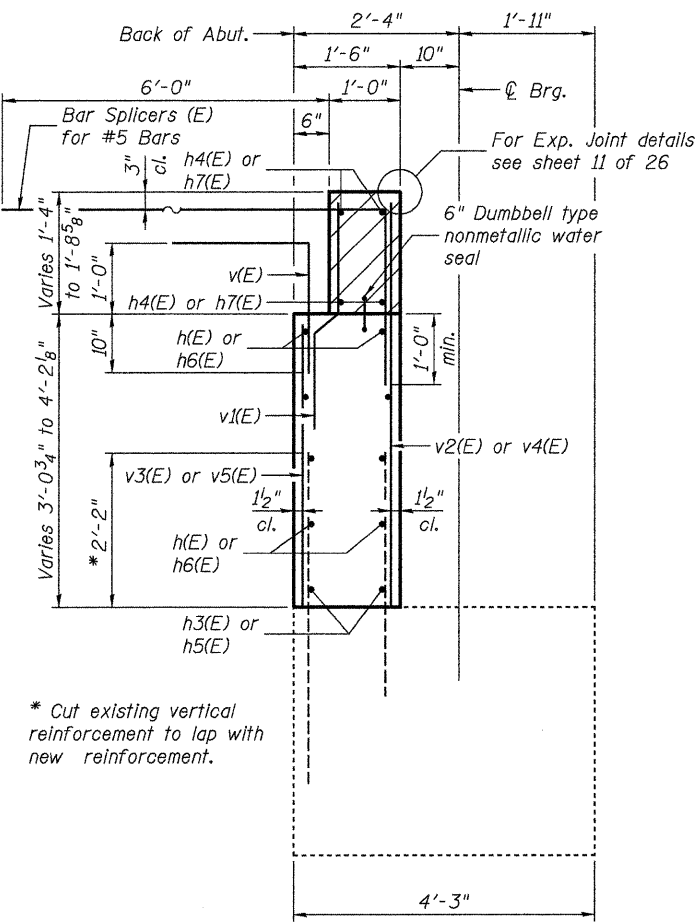
DESIGNED: JDQ	DRAWN: P. Ray
CHECKED: DCD	CHECKED: DCD

EAST ABUTMENT (SB)
STRUCTURE NO. 058-0108(SB) & 0109(NB)

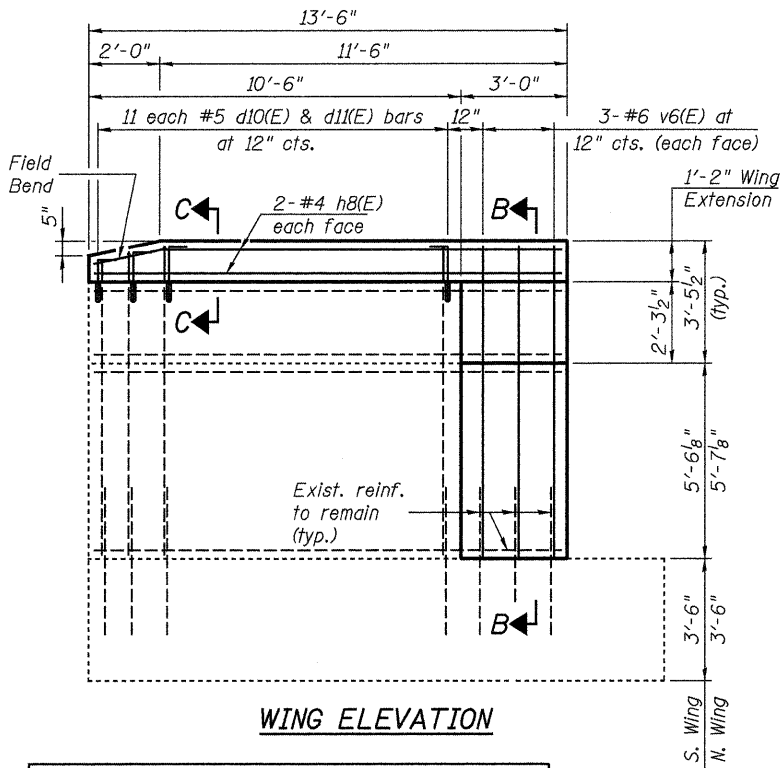
SHEET 18 OF 26	F.A.P. RTE. 322	SECTION (58-20)RS	COUNTY MACON	TOTAL SHEETS 151	SHEET NO. 120
	STA. 235+00.78		CONTRACT NO. 74150		
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT					

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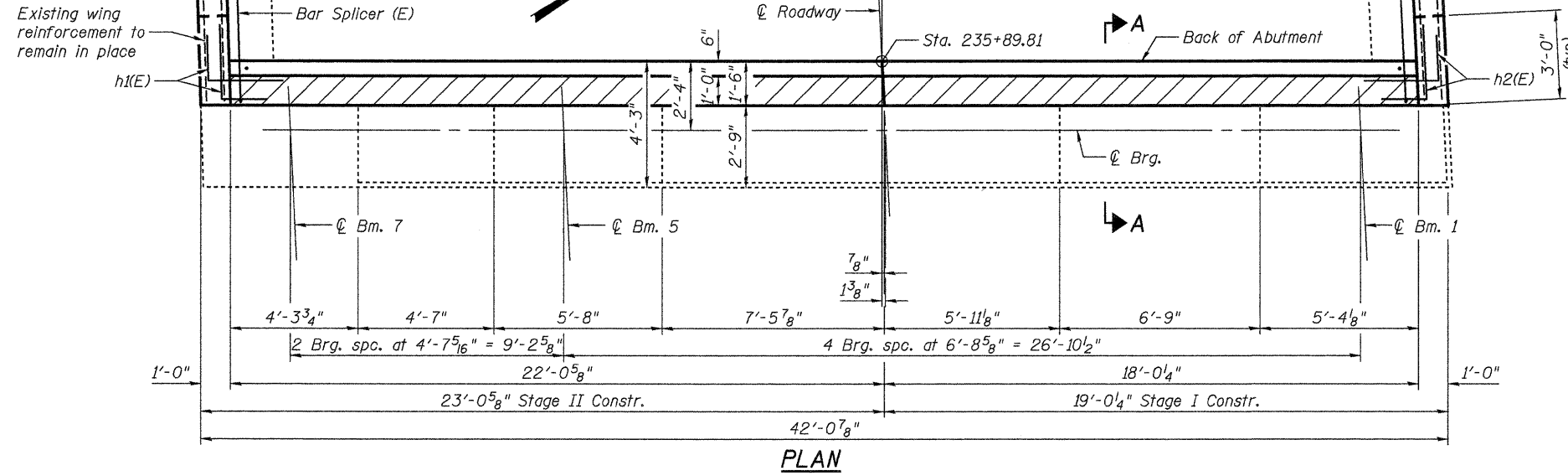
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



SECTION A-A

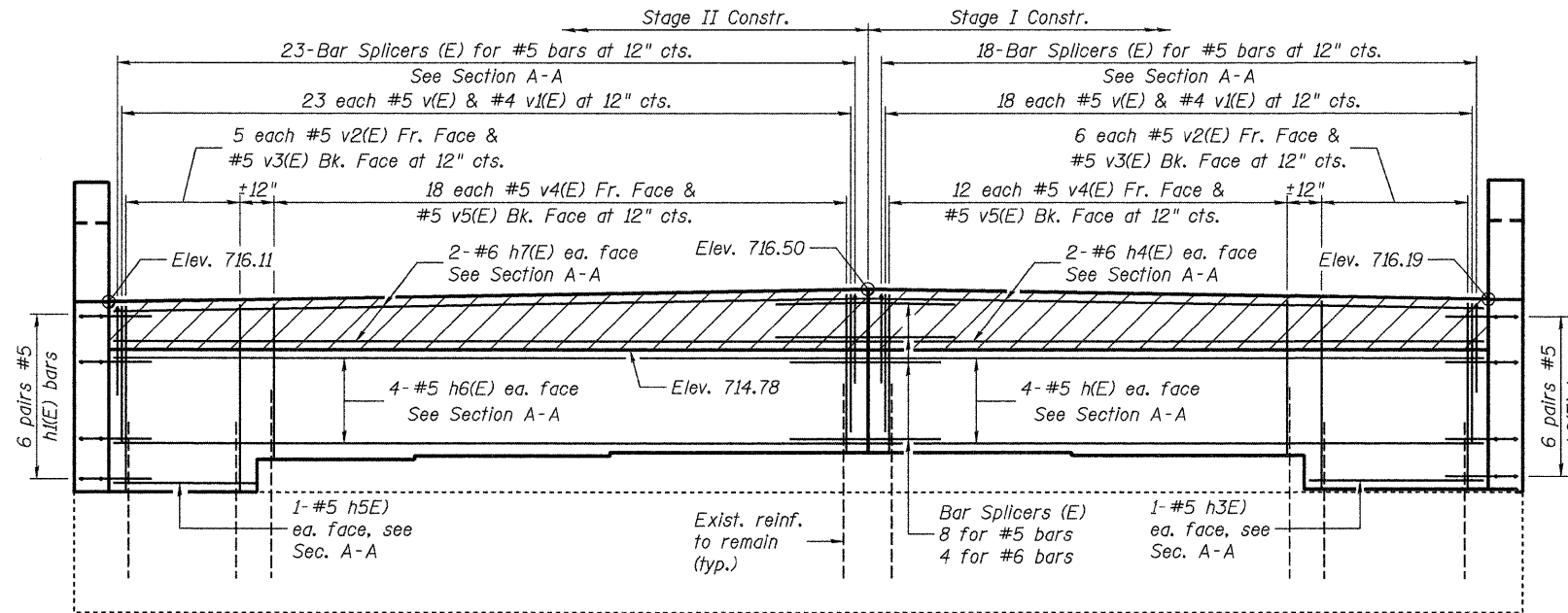


WING ELEVATION

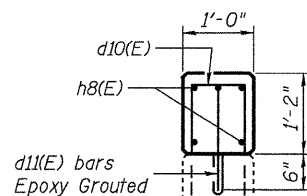


PLAN

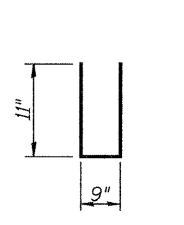
Hatched area to be poured after superstructure false work has been removed. Quantity of concrete included with Concrete Superstructure.



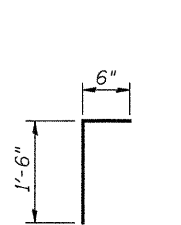
ELEVATION



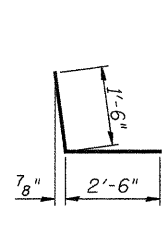
SECTION C-C



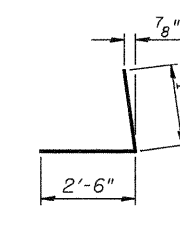
BAR d10(E)



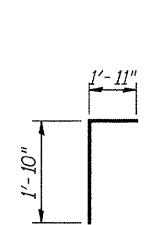
BAR d11(E)



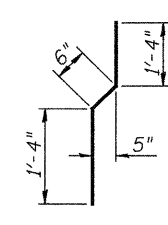
BAR h1(E)



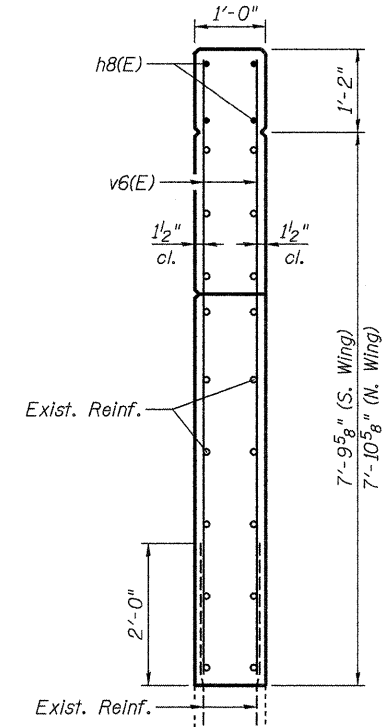
BAR h2(E)



BAR v1(E)



BAR v2(E)



SECTION B-B

ABUTMENT
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
d10(E)	22	#5	2'-7"	⊏
d11(E)	22	#5	2'-0"	⊏
h(E)	8	#5	18'-8"	—
h1(E)	12	#5	4'-0"	⊏
h2(E)	12	#5	4'-0"	⊏
h3(E)	2	#5	6'-0"	—
h4(E)	4	#6	17'-8"	—
h5(E)	2	#5	5'-0"	—
h6(E)	8	#5	22'-8"	—
h7(E)	4	#6	21'-8"	—
h8(E)	8	#4	13'-0"	—
v(E)	41	#5	3'-9"	⊏
v1(E)	41	#4	3'-2"	⊏
v2(E)	11	#5	5'-2"	—
v3(E)	11	#5	3'-10"	—
v4(E)	30	#5	4'-5"	—
v5(E)	30	#5	2'-10"	—
v6(E)	12	#6	8'-7"	—
Structure Excavation		Cu. Yd.		76
Concrete Removal		Cu. Yd.		11.8
Concrete Structures		Cu. Yd.		10.3
Concr. Superstructure		Cu. Yd.		2.3
Reinforcement Bars, Epoxy Coated		Pound		1610

For details of Bar Splicers, see sheet 25 of 26.

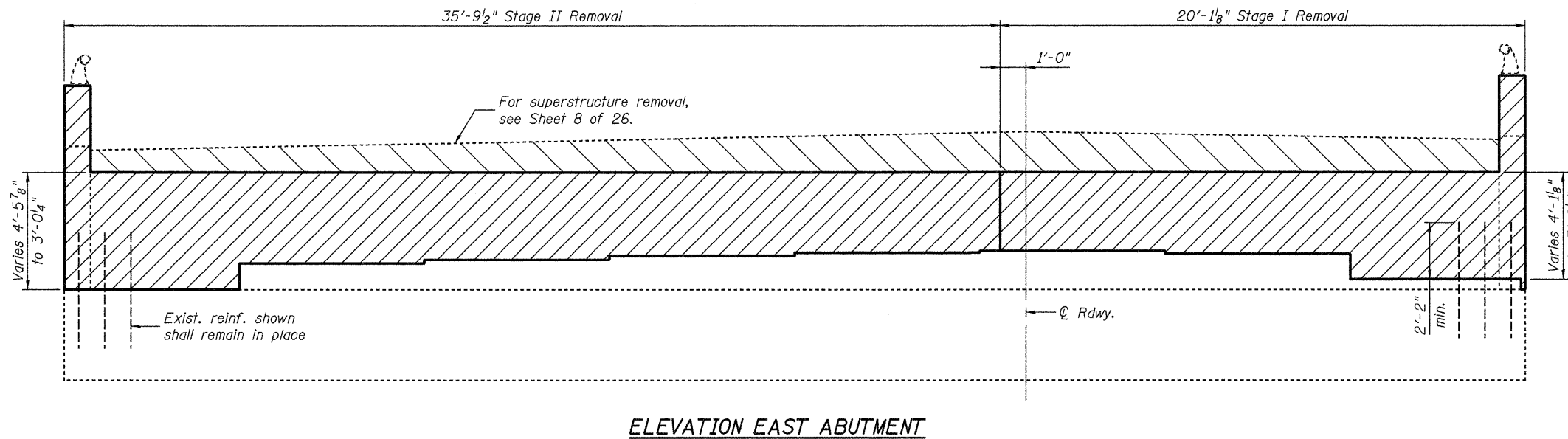
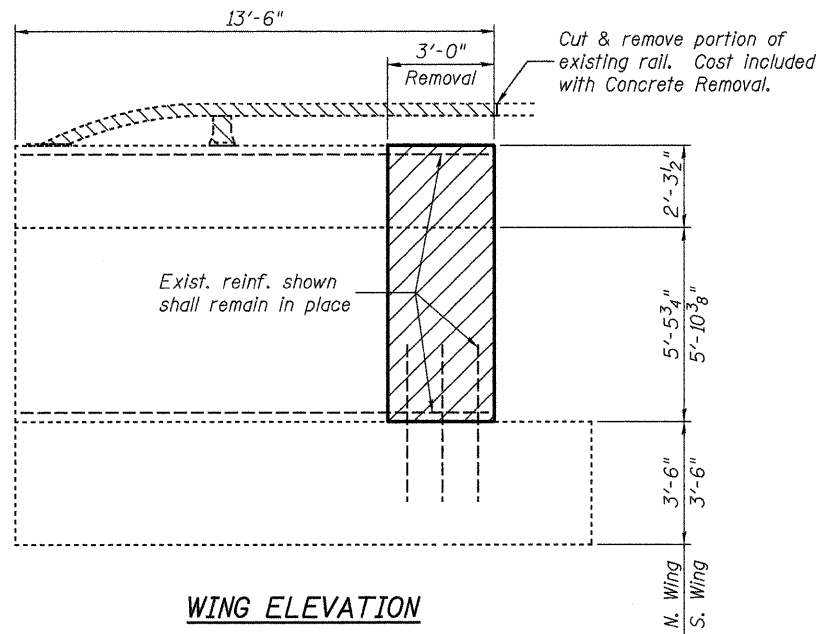
WEST ABUTMENT (SB)
STRUCTURE NO. 058-0108(SB) & 0109(NB)

JD Johnson, Depp & Quisenberry
CONSULTING ENGINEERS
Springfield, Illinois

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

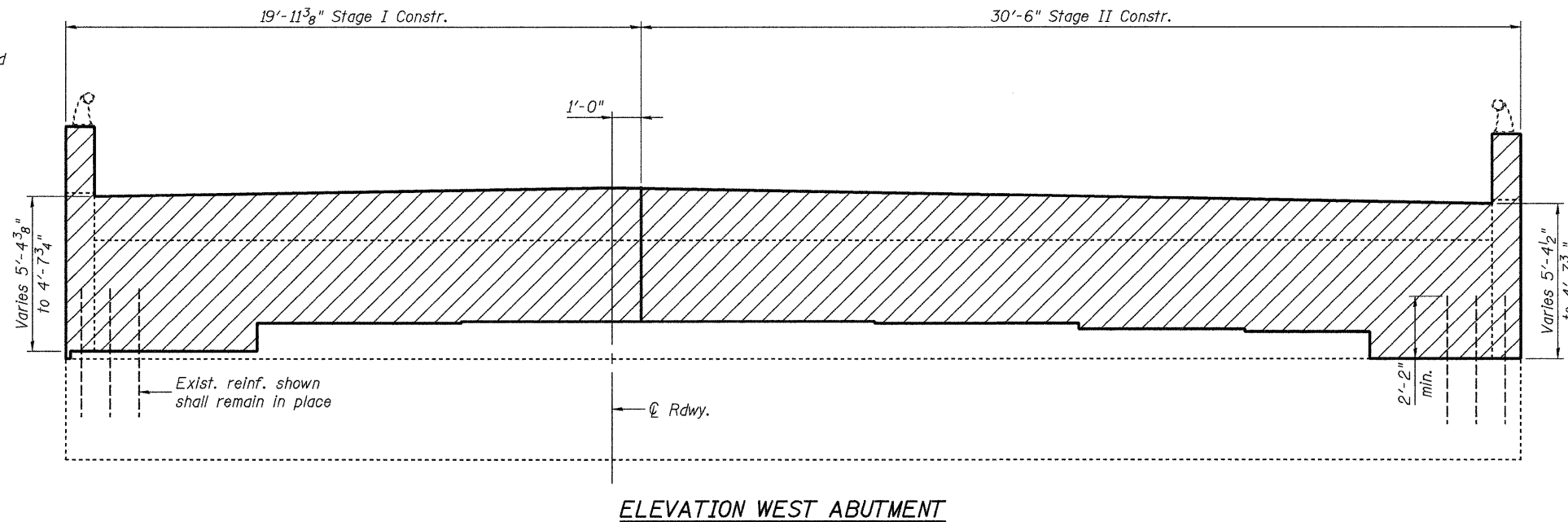
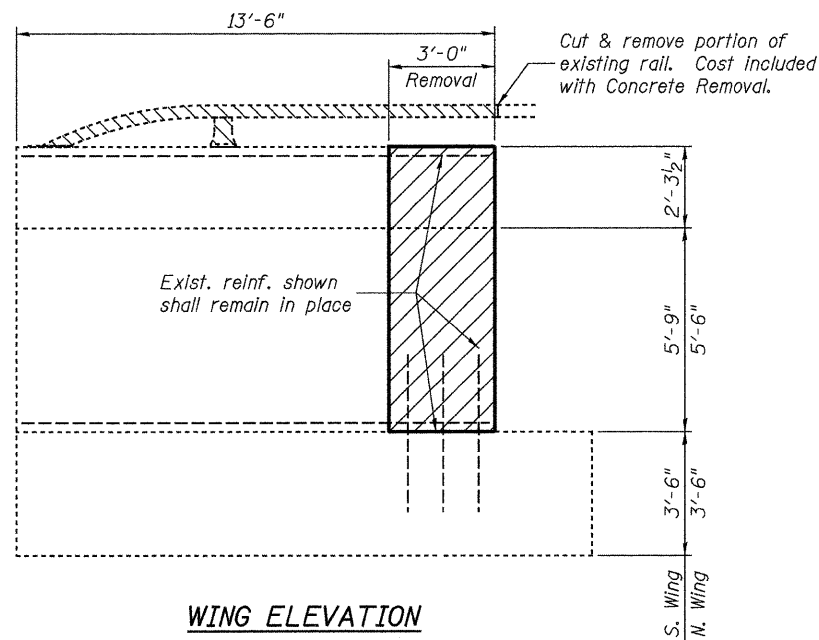
SHEET NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
19	(58-20)RS	MACON	151	121
OF 26	STA. 235+00.78	CONTRACT NO.	74150	
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



WING ELEVATION

ELEVATION EAST ABUTMENT



WING ELEVATION

ELEVATION WEST ABUTMENT

Indicates Limits of Concrete Removal.

Note:
Quantities for Concrete Removal are included on sheets 21 and 22 of 26.

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Springfield, Illinois

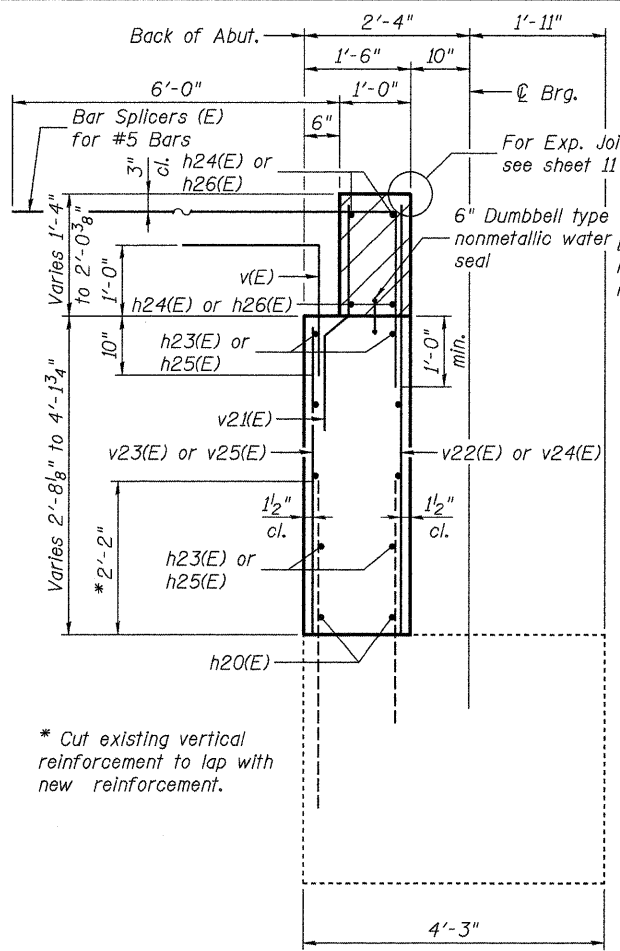
DESIGNED: JDQ	DRAWN: SJS
CHECKED: DCD	CHECKED: DCD

ABUTMENT - REMOVAL (NB)
STRUCTURE NO. 058-0108(SB) & 0109(NB)

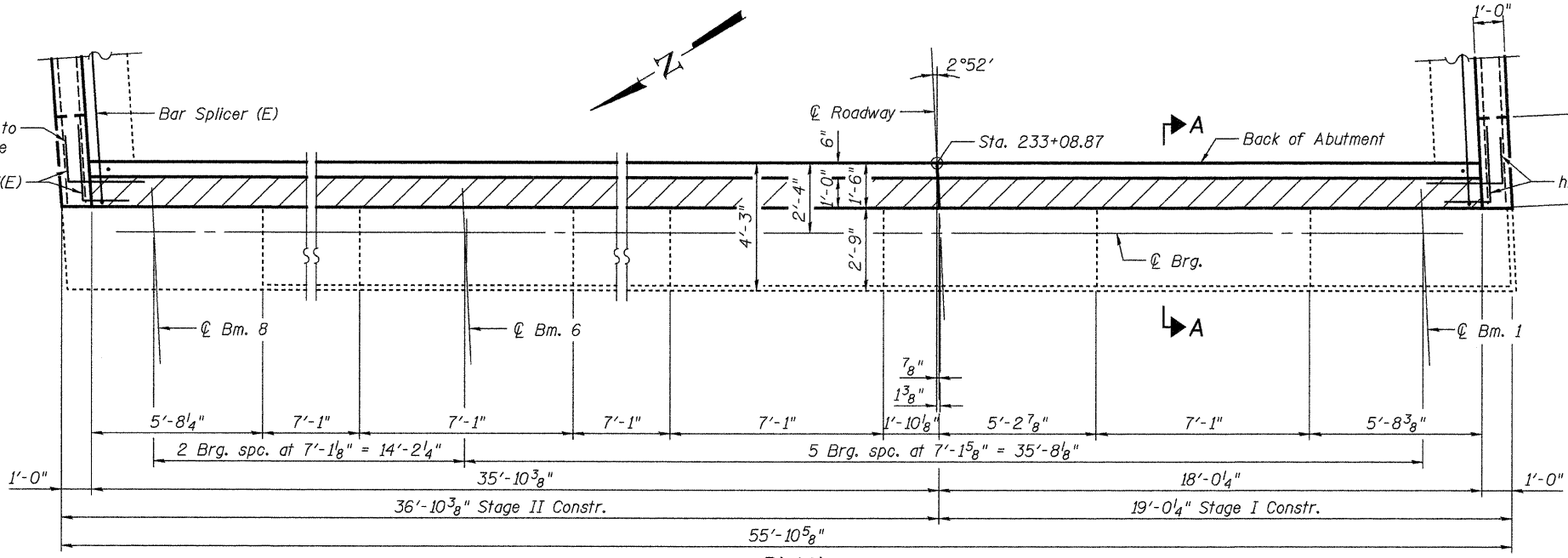
SHEET 20 OF 26	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	322	158-201RS	MACON	151	122
	STA. 235+00.78		CONTRACT NO. 74150		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT			

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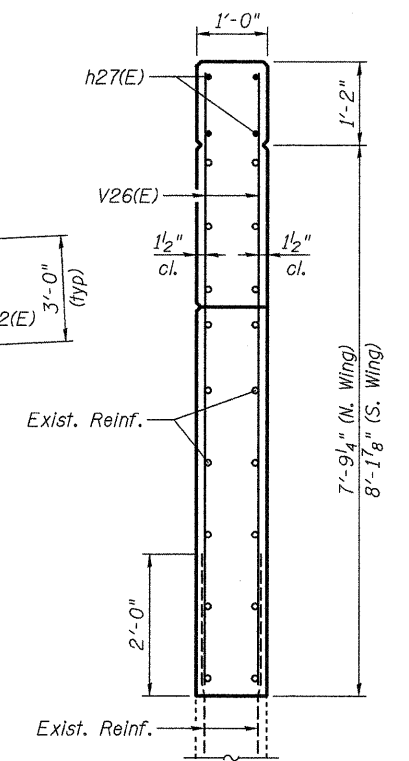
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



SECTION A-A

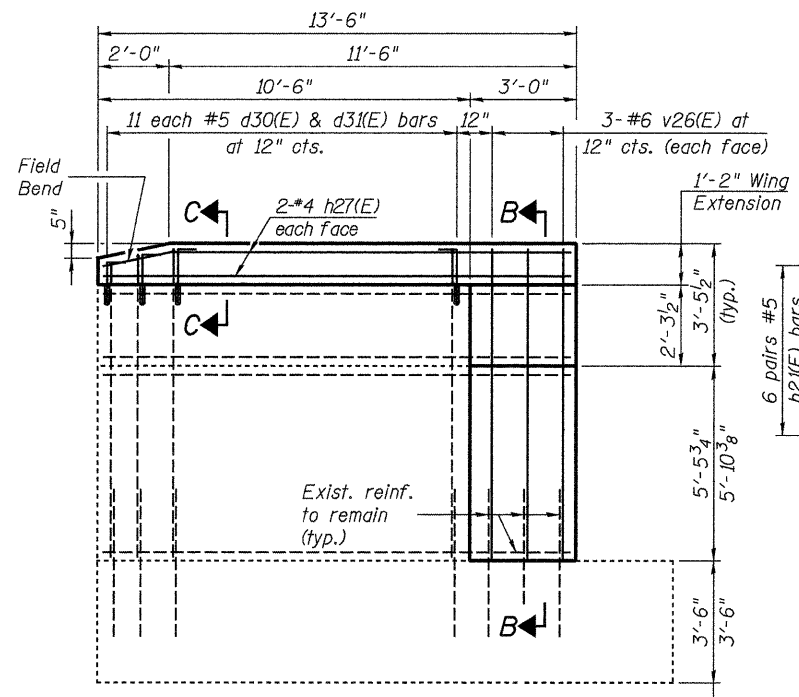


PLAN

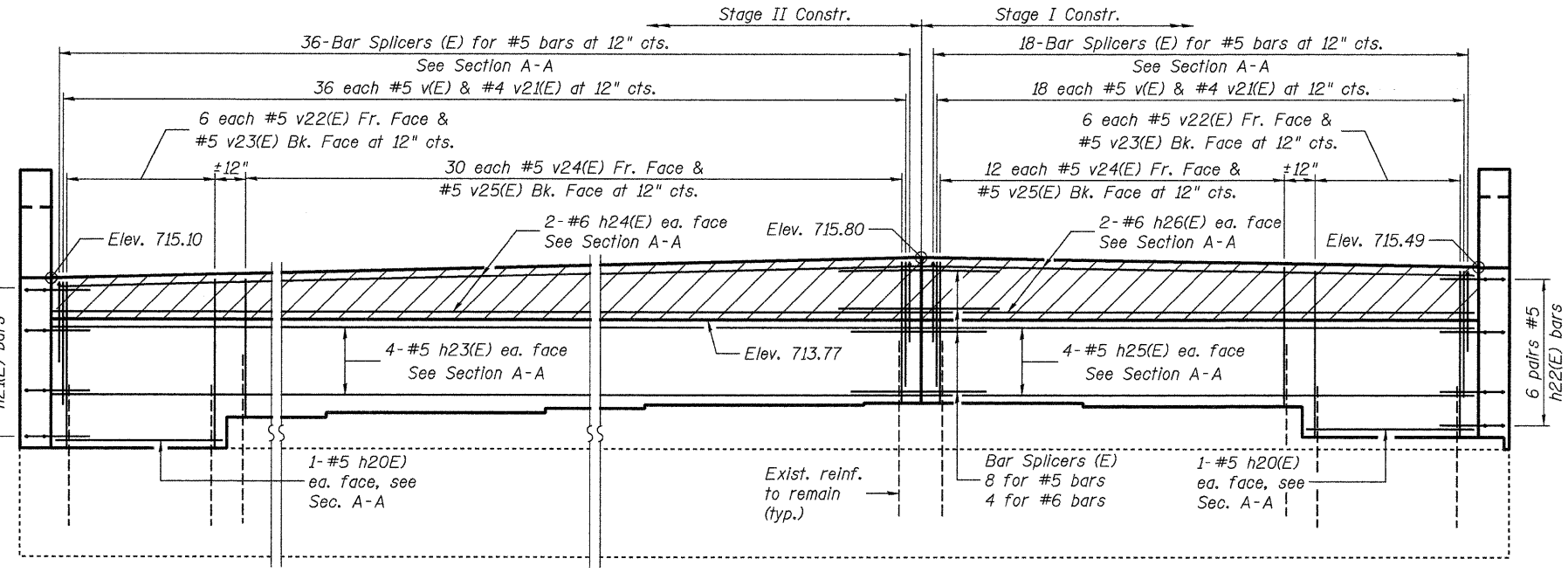


SECTION B-B

Hatched area to be poured after superstructure false work has been removed. Quantity of concrete included with Concrete Superstructure.



WING ELEVATION

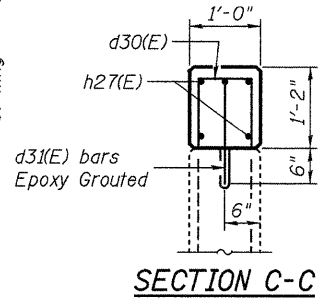


ELEVATION

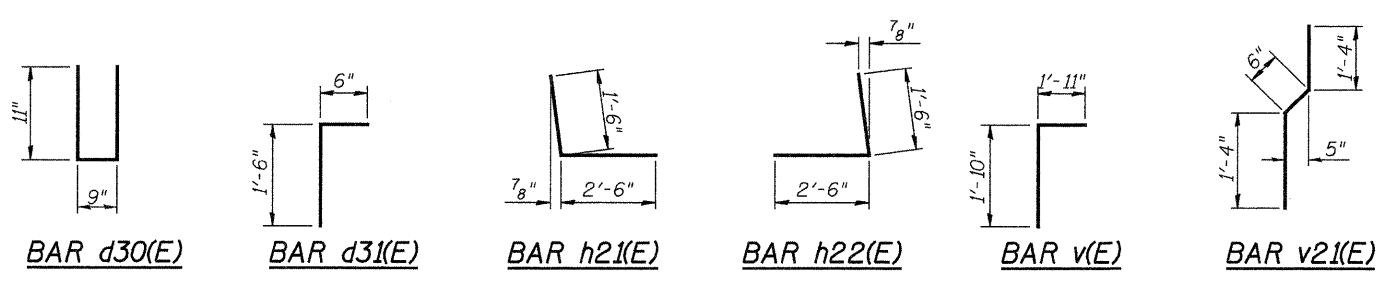
ABUTMENT
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
d30(E)	22	#5	2'-7"	□
d31(E)	22	#5	2'-0"	L
h20(E)	4	#5	6'-4"	—
h21(E)	12	#5	4'-0"	L
h22(E)	12	#5	4'-0"	L
h23(E)	8	#5	36'-6"	—
h24(E)	4	#6	35'-6"	—
h25(E)	8	#5	18'-8"	—
h26(E)	4	#6	17'-8"	—
h27(E)	8	#4	13'-0"	—
v(E)	54	#5	3'-9"	L
v21(E)	54	#4	3'-2"	L
v22(E)	12	#5	5'-2"	—
v23(E)	12	#5	3'-6"	—
v24(E)	42	#5	4'-3"	—
v25(E)	42	#5	2'-5"	—
v26(E)	12	#6	8'-7"	—
Structure Excavation		Cu. Yd.	106	
Concrete Removal		Cu. Yd.	12.8	
Concrete Structures		Cu. Yd.	12.3	
Concr. Superstructure		Cu. Yd.	3.6	
Reinforcement Bars, Epoxy Coated		Pound	1960	

For details of Bar Splicers, see sheet 25 of 26.



SECTION C-C



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Springfield, Illinois

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

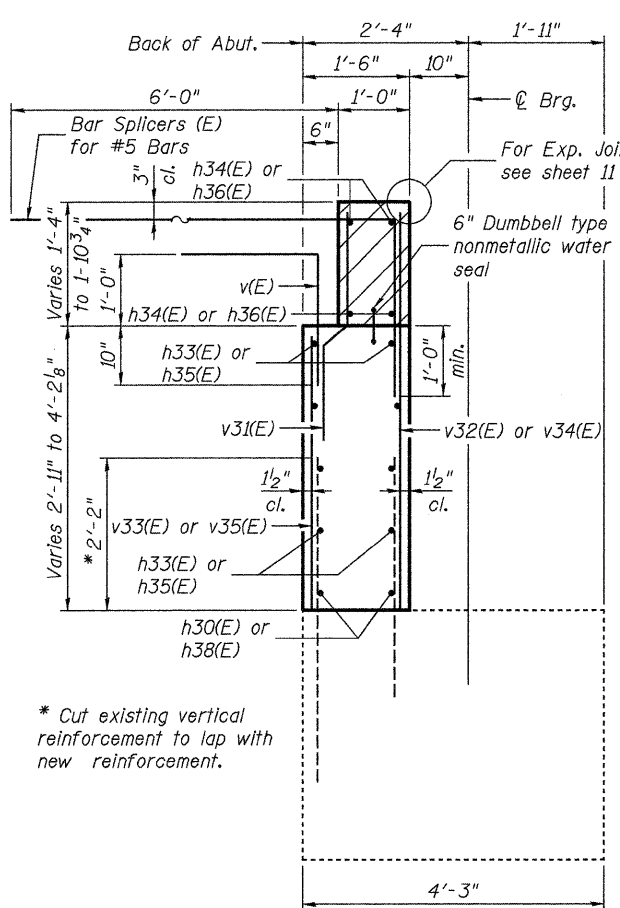
EAST ABUTMENT (NB)
STRUCTURE NO. 058-0108(SB) & 0109(NB)

SHEET 21 OF 26	F.A.P. RTE. 322	SECTION 158-20RS	COUNTY MACON	TOTAL SHEETS 151	SHEET NO. 123
		STA. 235+00.78	CONTRACT NO. 74150		

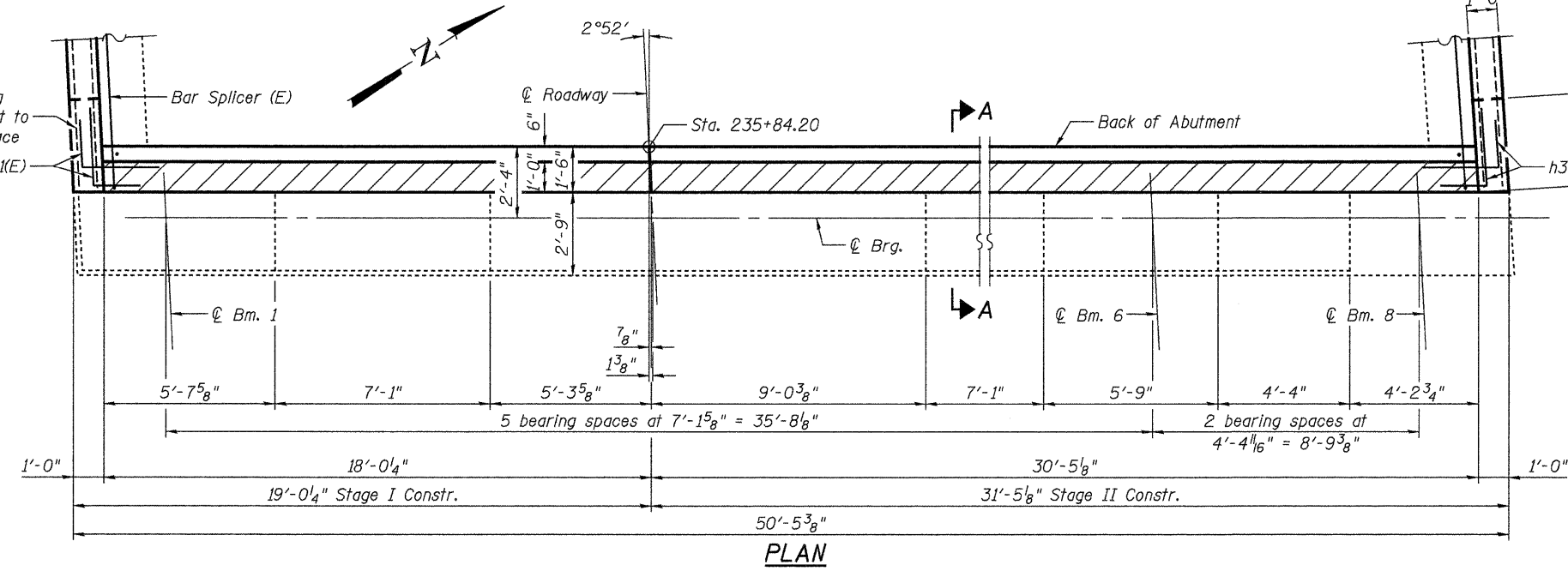
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

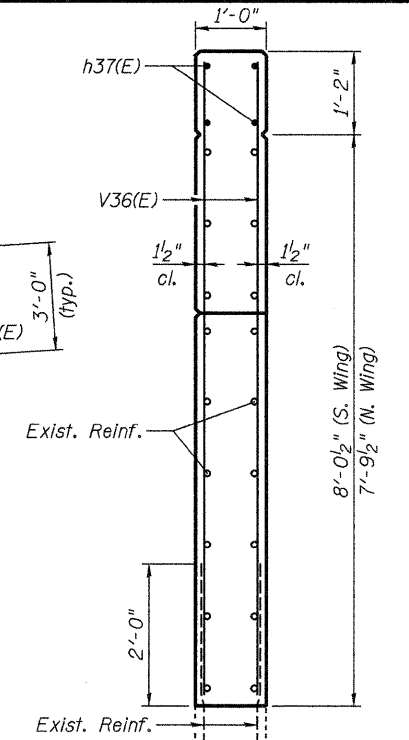


SECTION A-A



PLAN

Hatched area to be poured after superstructure false work has been removed. Quantity of concrete included with Concrete Superstructure.

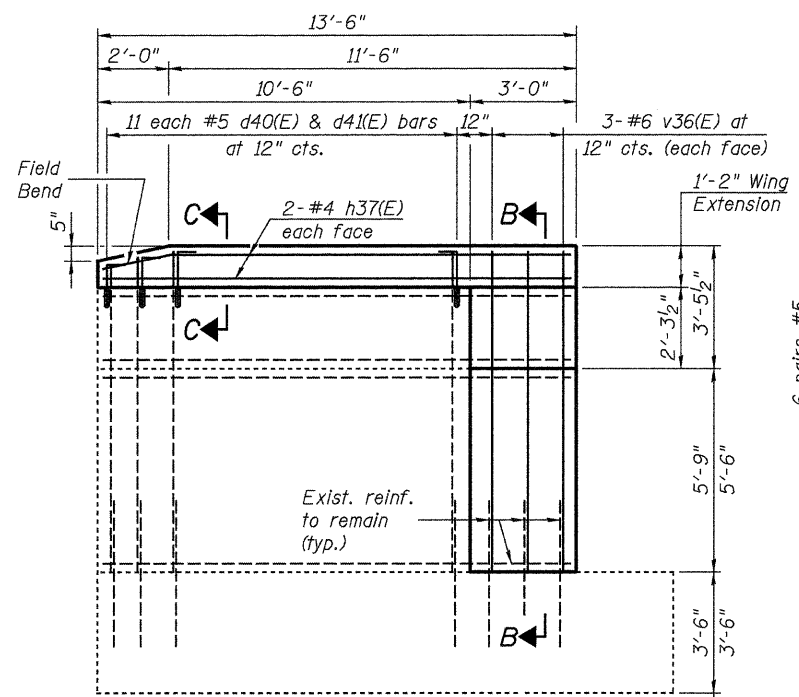


SECTION B-B

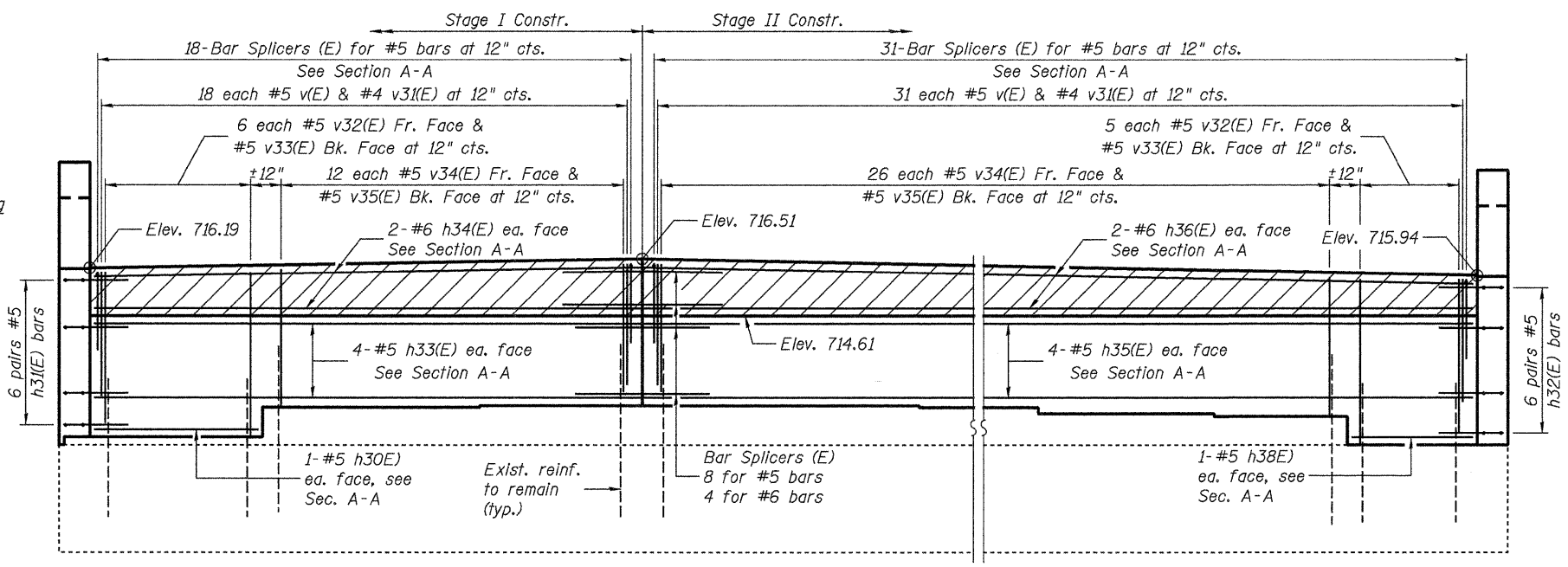
ABUTMENT
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
d40(E)	22	#5	2'-7"	□
d41(E)	22	#5	2'-0"	L
h30(E)	2	#5	6'-3"	—
h31(E)	12	#5	4'-0"	L
h32(E)	12	#5	4'-0"	J
h33(E)	8	#5	18'-8"	—
h34(E)	4	#6	17'-8"	—
h35(E)	8	#5	31'-0"	—
h36(E)	4	#6	30'-0"	—
h37(E)	8	#4	13'-0"	—
h38(E)	2	#5	4'-10"	—
v(E)	49	#5	3'-9"	L
v31(E)	49	#4	3'-2"	L
v32(E)	11	#5	5'-2"	—
v33(E)	11	#5	3'-8"	—
v34(E)	38	#5	4'-5"	—
v35(E)	38	#5	2'-8"	—
v36(E)	12	#6	8'-7"	—
Structure Excavation		Cu. Yd.		94
Concrete Removal		Cu. Yd.		14.0
Concrete Structures		Cu. Yd.		11.7
Concr. Superstructure		Cu. Yd.		3.0
Reinforcement Bars, Epoxy Coated		Pound		1830

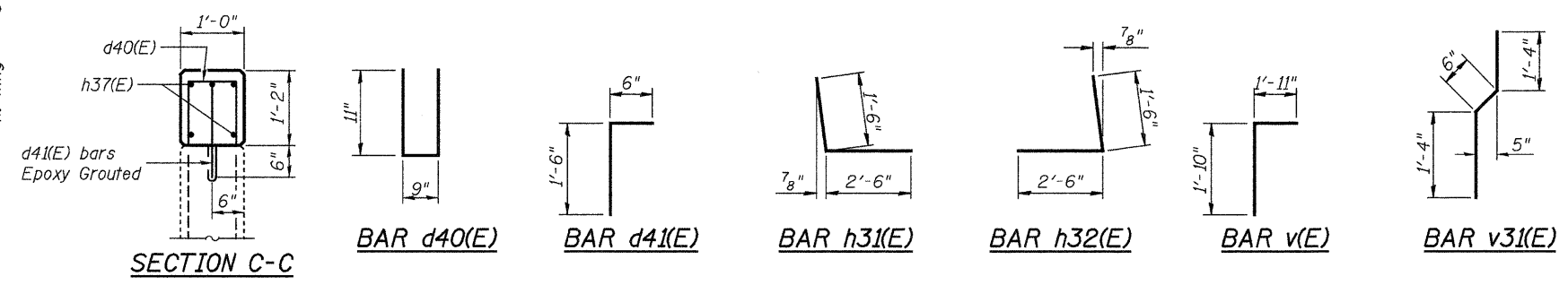
For details of Bar Splicers, see sheet 25 of 26.



WING ELEVATION



ELEVATION



SECTION C-C

JD Johnson, Depp & Quisenberry
CONSULTING ENGINEERS
Springfield, Illinois

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

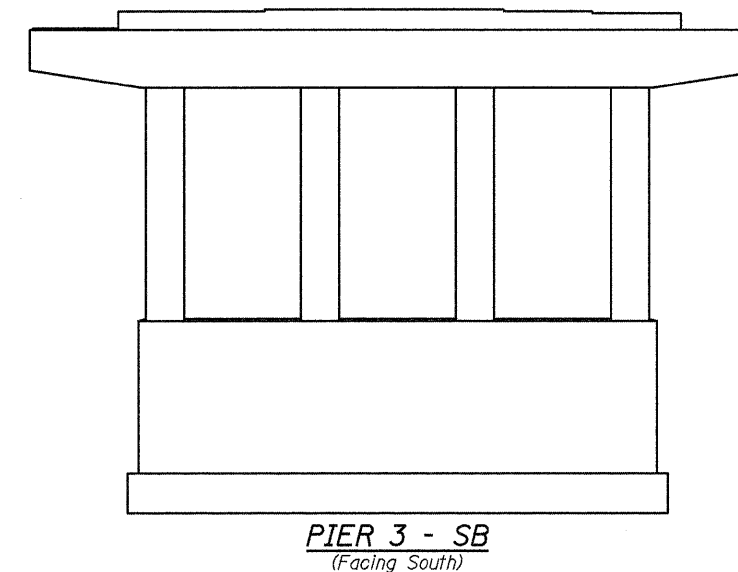
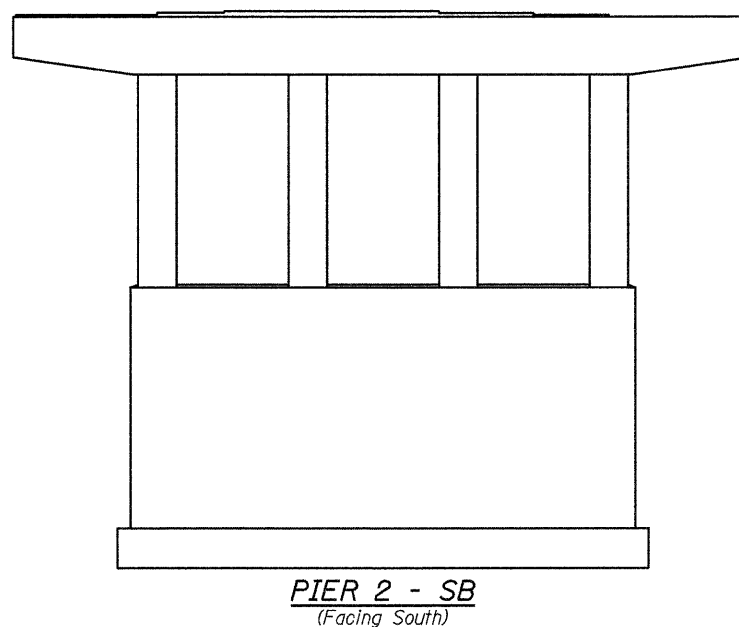
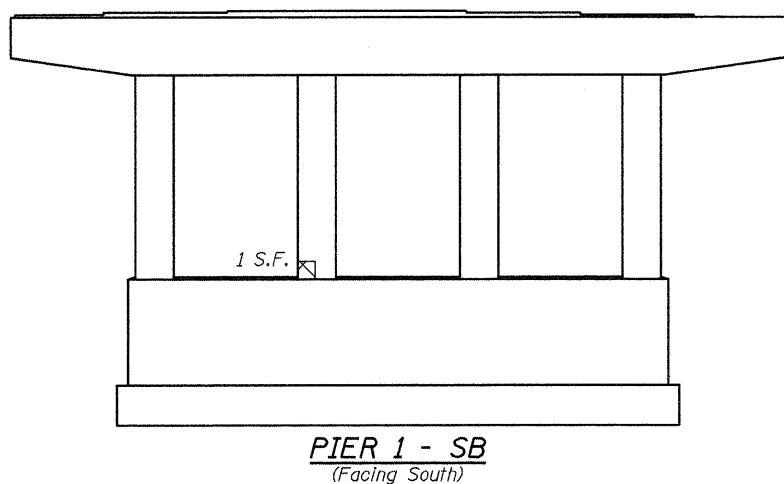
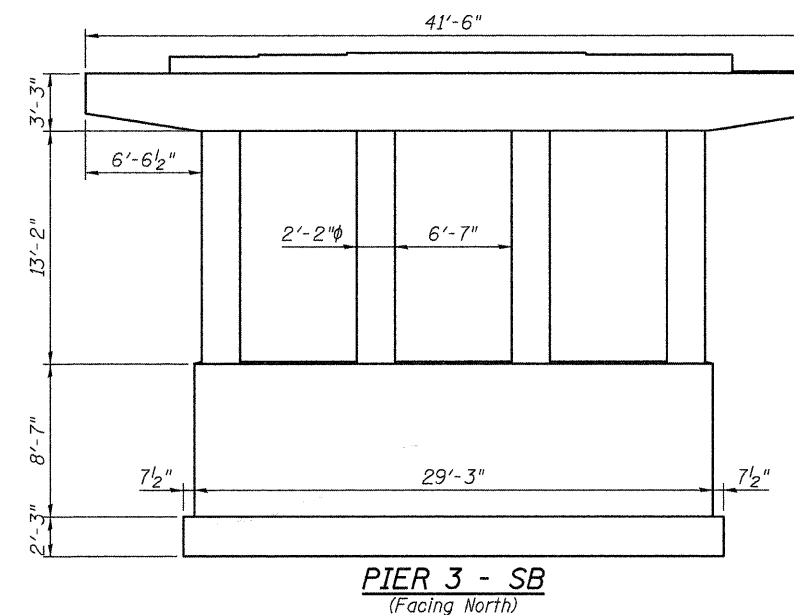
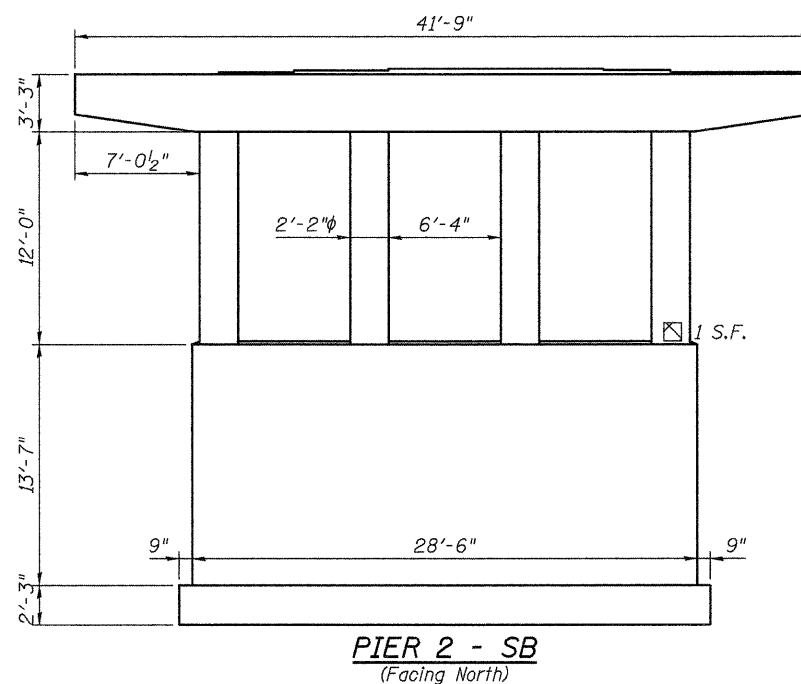
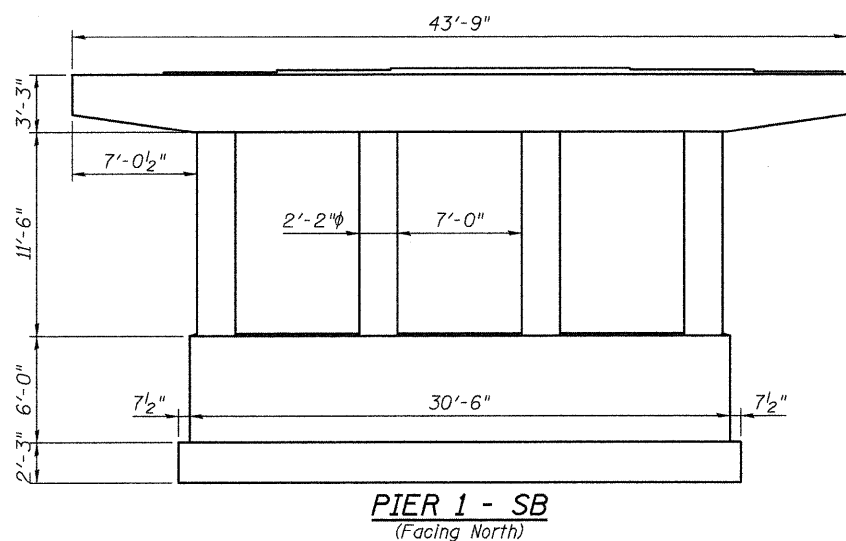
WEST ABUTMENT (NB)
STRUCTURE NO. 058-0108(SB) & 0109(NB)

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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STA. 235+00.78		CONTRACT NO. 74150		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

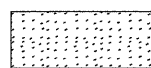



SHEET 22
OF 26

DATE: 04/09/2010 18:03:27 USER: DCD FILE: J:\JDD\10177 IL-DTVM#8 USS51 Bridge Repairs\3-IL48-NSRR\0580108-7450-022-abut2-NB.dgn

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



LEGEND

-  Hollow or Unsound Concrete
-  Spalled Concrete
-  Spalled Concrete with Exposed Reinf.
-  Hairline Crack

Notes:
Pier Condition Survey performed 9/17/2009.

Plan quantities assume that areas of "exposed reinforcing" will be repaired.

Repair areas are estimated, the Engineer shall determine actual repair locations and record them on the As-Built plans.

BILL OF MATERIAL

Item	Unit	Total
Structural Repair of Concrete (Depth = < 5")	Sq. Ft.	1

**PIERS (SB)
STRUCTURE NO. 058-0108(SB) & 0109(NB)**

SHEET 23 OF 26	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	322	158-20/RS	MACON	151	125
STA. 235+00.78			CONTRACT NO. 74150		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT			

JD Johnson, Depp & Quisenberry
CONSULTING ENGINEERS
Springfield, Illinois

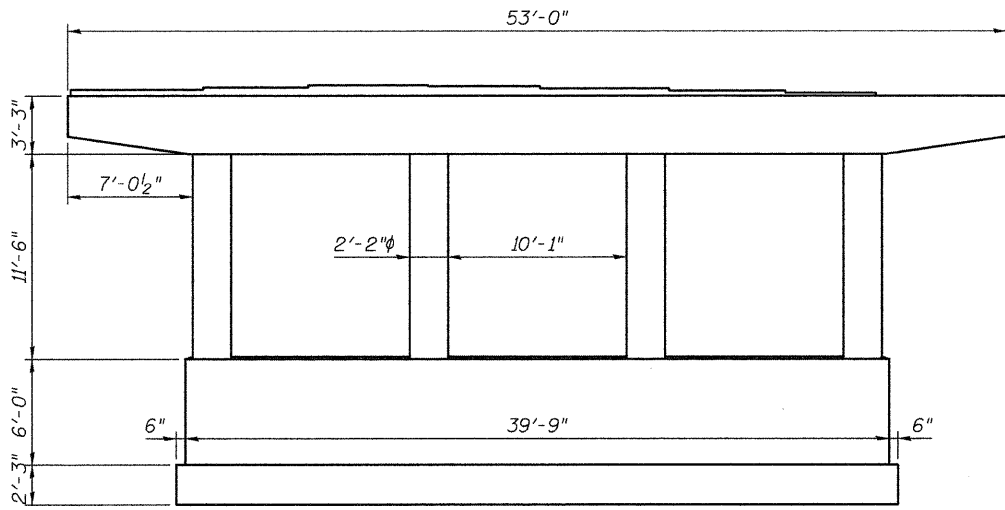
DESIGNED: JDQ	DRAWN: SJS
CHECKED: DCD	CHECKED: DCD

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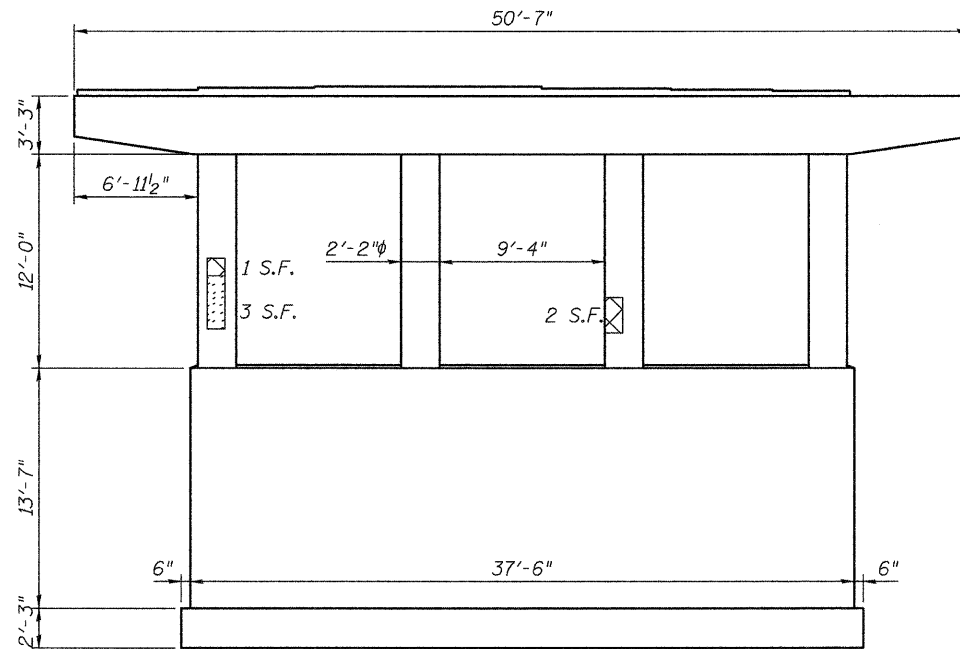
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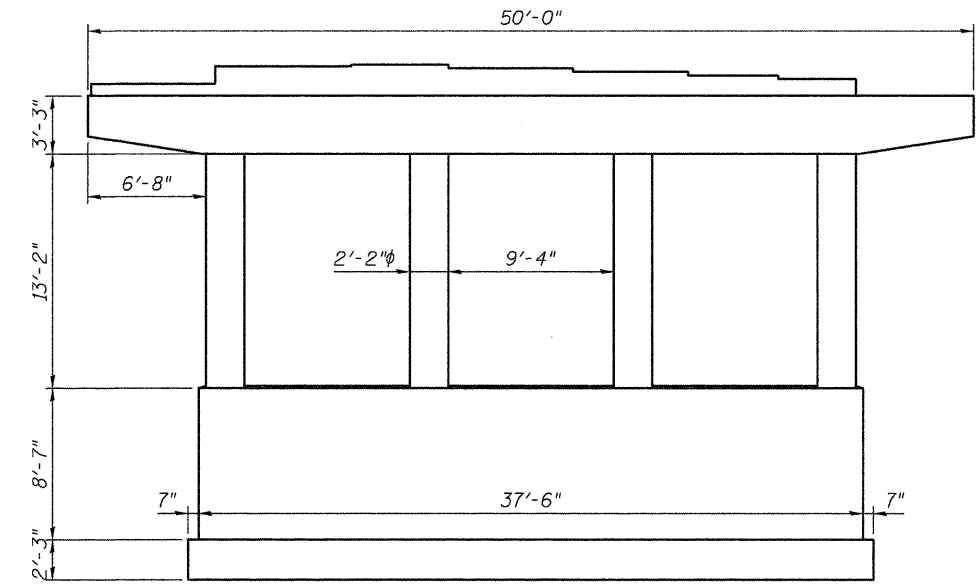
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



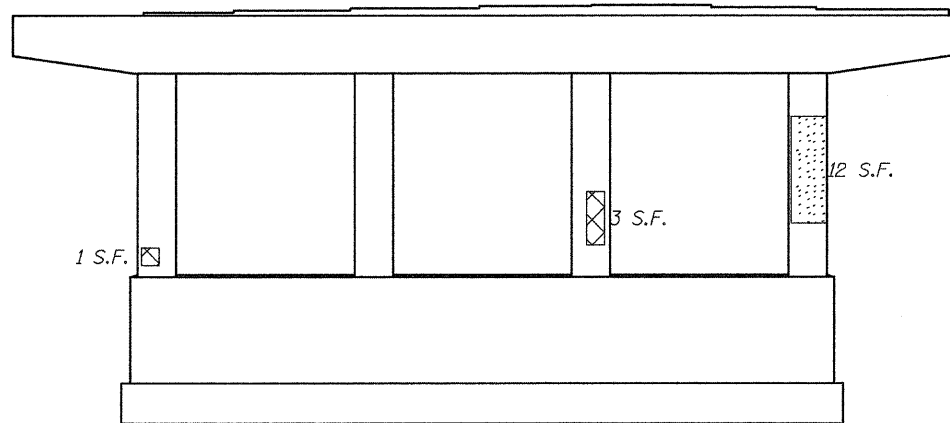
PIER 1 - NB
(Facing North)



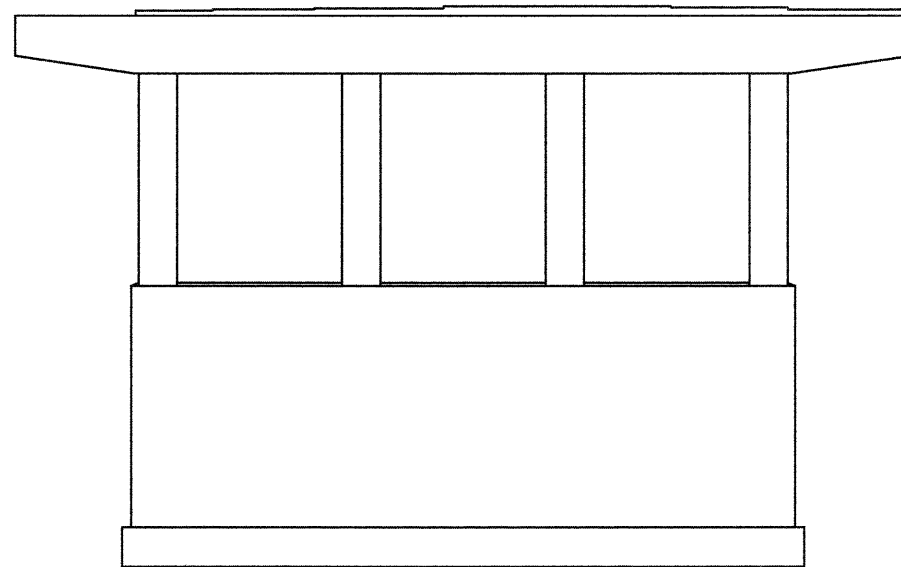
PIER 2 - NB
(Facing North)



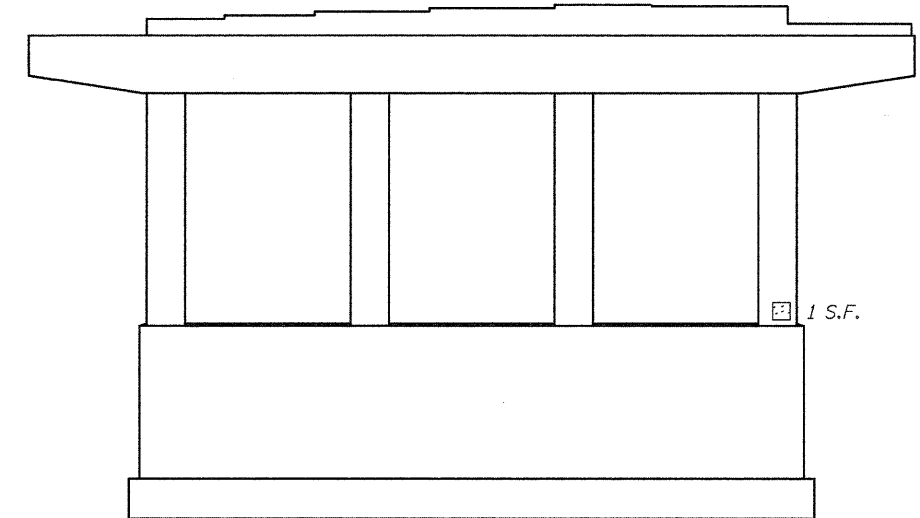
PIER 3 - NB
(Facing North)



PIER 1 - NB
(Facing South)








PIER 2 - NB
(Facing South)



PIER 3 - NB
(Facing South)

LEGEND

-  Hollow or Unsound Concrete
-  Spalled Concrete
-  Spalled Concrete with Exposed Reinf.
-  Hairline Crack

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

Notes:
Pier Condition Survey performed 9/17/2009.

Plan quantities assume that areas of "exposed reinforcing" will be repaired.

Repair areas are estimated, the Engineer shall determine actual repair locations and record them on the As-Built plans.

BILL OF MATERIAL

Item	Unit	Total
Structural Repair of Concrete (Depth = < 5")	Sq. Ft.	10

PIERS (NB)
STRUCTURE NO. 058-0108(SB) & 0109(NB)

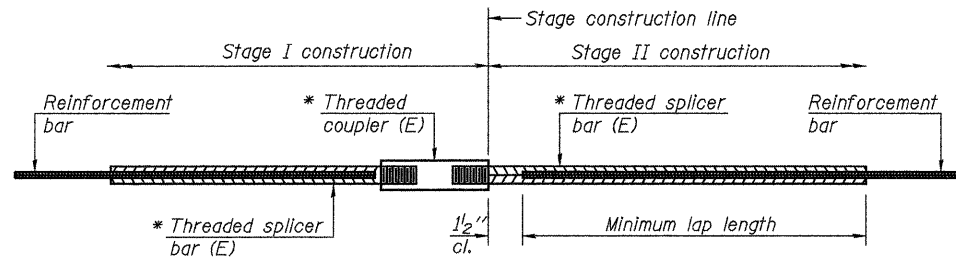
SHEET 24 OF 26	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	322	158-201RS	MACON	151	126
		STA. 235+00.78	CONTRACT NO. 74150		
		FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT		

FILE: J:\DD\010177_IL-DTVM\8 USSIBridge Repairs\3-IL48-NSRR\0580108-74150-024-Piers-NB.dgn

USER: DCD

DATE: 04/09/2010 10:03:33

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



STANDARD BAR SPLICER ASSEMBLY

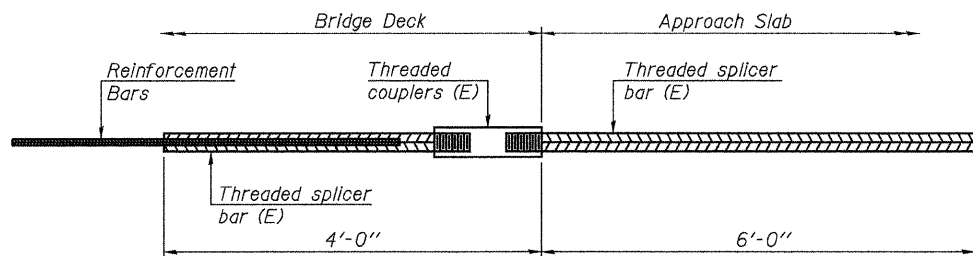
Bar size to be spliced	Minimum Lap Lengths			
	Table 1	Table 2	Table 3	Table 4
3, 4	1'-5"	1'-11"	2'-1"	2'-4"
5	1'-9"	2'-5"	2'-7"	2'-11"
6	2'-1"	2'-11"	3'-1"	3'-6"
7	2'-9"	3'-10"	4'-2"	4'-8"
8	3'-8"	5'-1"	5'-5"	6'-2"
9	4'-7"	6'-5"	6'-10"	7'-9"

Table 1: Black bar, 0.8 Class C
Table 2: Black bar, Top bar lap, 0.8 Class C
Table 3: Epoxy bar, 0.8 Class C
Table 4: Epoxy bar, Top bar lap, 0.8 Class C

Threaded splicer bar length = min. lap length + 1 1/2" + thread length

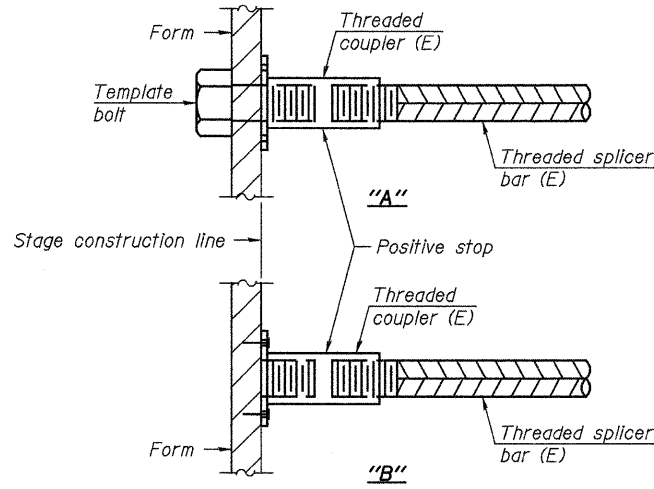
* Epoxy not required on Bar Splicer Assembly components used in conjunction with black bars.

Location	Bar size	No. assemblies required	Table for minimum lap length
Deck Exp. Jts.	#6	60 (SB) & 60 (NB)	3
Appr. Slab	#4	48 (SB) & 48 (NB)	3
Appr. Slab	#5	170 (SB) & 170 (NB)	3
Abutments	#5	16 (SB) & 16 (NB)	3
Abutments	#6	8 (SB) & 8 (NB)	3



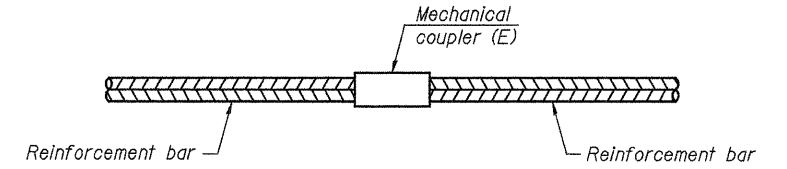
BAR SPLICER ASSEMBLY FOR #5 BAR ON INTEGRAL OR SEMI-INTEGRAL ABUTMENTS

No. required =



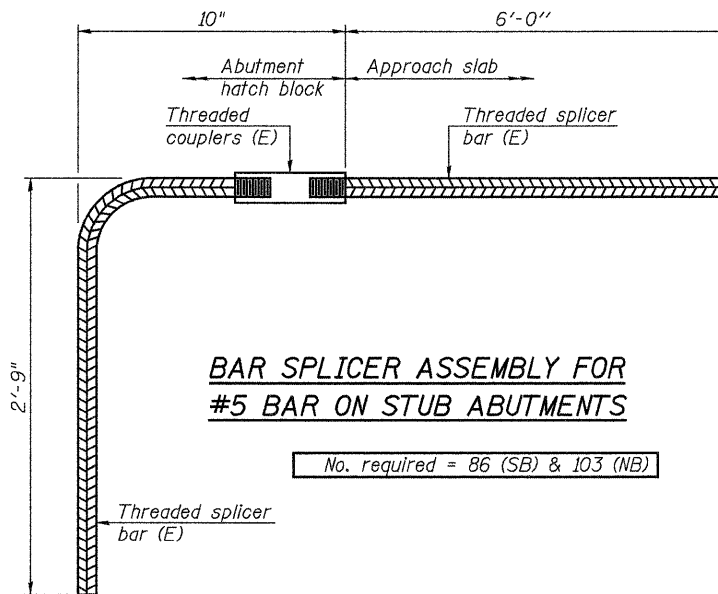
INSTALLATION AND SETTING METHODS

"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.



STANDARD MECHANICAL SPLICER

Location	Bar size	No. assemblies required



BAR SPLICER ASSEMBLY FOR #5 BAR ON STUB ABUTMENTS

No. required = 86 (SB) & 103 (NB)

NOTES

Splicer bars shall be deformed with threaded ends and have a minimum 60 ksi yield strength.
All reinforcement shall be lapped and tied to the splicer bars.
Bar splicer assemblies shall be epoxy coated according to the requirements for reinforcement bars. See Section 508 of the Standard Specifications.
See special provision for Mechanical Splicers.
See approved list of bar splicer assemblies and mechanical splicers for alternatives.

**BAR SPLICER ASSEMBLY AND MECHANICAL SPLICER DETAILS
STRUCTURE NO. 058-0108(SB) & 0109(NB)**

SHEET 25 OF 26	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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STA. 235+00.78		CONTRACT NO. 74150			
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT			

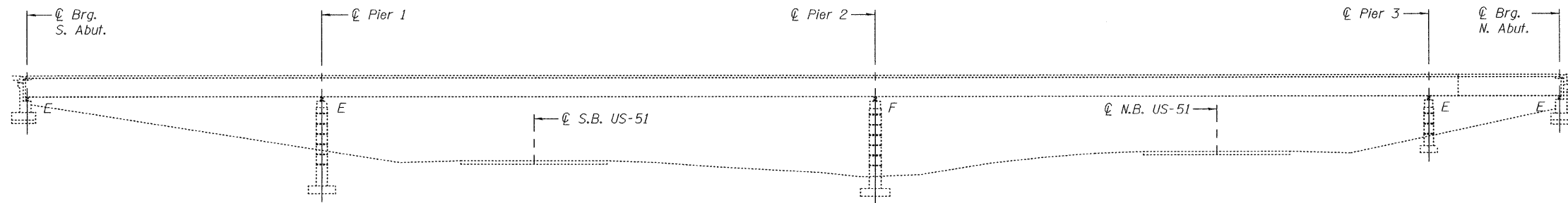
JD Johnson, Depp & Quisenberry
CONSULTING ENGINEERS
Springfield, Illinois

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

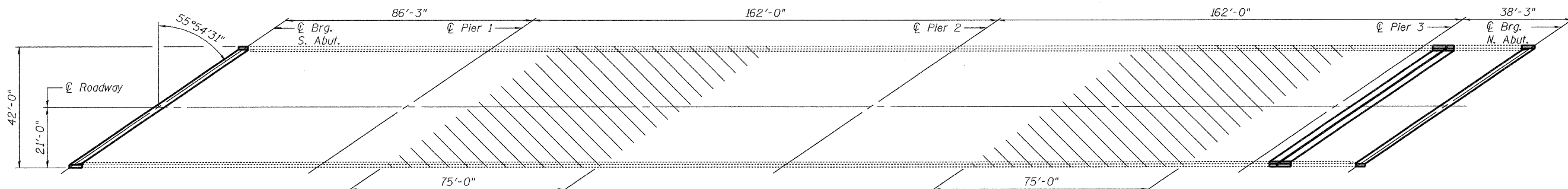
BSD-1 11-1-09

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



ELEVATION



PLAN

TOTAL BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Concrete Removal	Cu. Yd.	35.1
Concrete Superstructure	Cu. Yd.	35.9
Furnishing and Erecting Structural Steel	Pound	2,690
Reinforcement Bars, Epoxy Coated	Pound	6,000
Protective Coat	Sq. Yd.	1,965
Bridge Deck Grooving	Sq. Yd.	1,850
Protective Shield	Sq. Yd.	699
Bridge Deck Hydro-Scarification	Sq. Yd.	1,875
Bridge Deck Microsilica Concrete Overlay 2 1/4"	Sq. Yd.	1,875
Hot-Mix Asphalt Surface Removal (Deck)	Sq. Yd.	1,875
Preformed Joint Strip Seal	Foot	206
Anchor Bolts 1" Dia.	Each	24
Elastomeric Bearing Assembly, Type II	Each	12
Jack and Remove Existing Bearings	Each	12
Deck Slab Repairs (Full Depth Type 2)	Sq. Yd.	11

GENERAL NOTES

All structural steel shall conform to AASHTO Classification M-270 Gr. 36, unless otherwise noted.
 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 surfaces 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.
 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.
 Cost of removal and reinstallation of all members necessary to complete the work as detailed on the plans and as specified in the Special Provisions shall be included with Furnishing and Erecting Structural Steel.
 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 Standard Specifications when the deck is poured at an ambient temperature other than 50° F.
 The existing structural steel coating contains lead. The Contractor shall take appropriate precautions to deal with the presence of lead on this project.
 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".
 All structural steel shall be shop painted with the inorganic zinc rich primer per AASHTO M300, Type 1. Cost included with Furnishing and Erecting Structural Steel.
 Removal and reinstallation of the existing name plate on the structure will be necessary for construction of the expansion joint. This work and all materials shall be included with Relocating Name Plates.
 Removal and reinstallation of the end handrail sections and support posts at both abutments will be necessary for construction at the expansion joints. The existing handrail sections and support posts shall be reused. New bolts, shim plates and post support anchor assemblies as detailed in the plans are to be provided and installed for the replacement of the handrail and supports. This work and all materials shall be included with Concrete Superstructure.
 Work is to be done under road closure.

DESIGNED	Adrian Holloway
CHECKED	Jim J. [Signature]
DRAWN	[Signature]
CHECKED	ATH ISL

EXAMINED	April 29, 2010	[Signature]
PASSED	[Signature]	ENGINEER OF STRUCTURAL SERVICES
	[Signature]	ENGINEER OF BRIDGES AND STRUCTURES

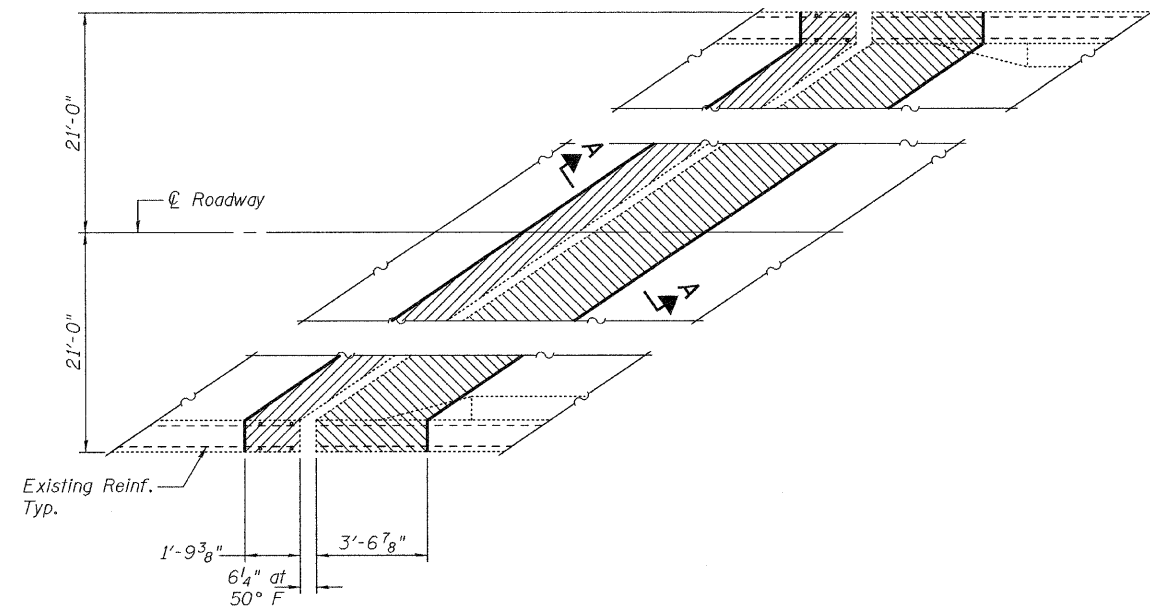


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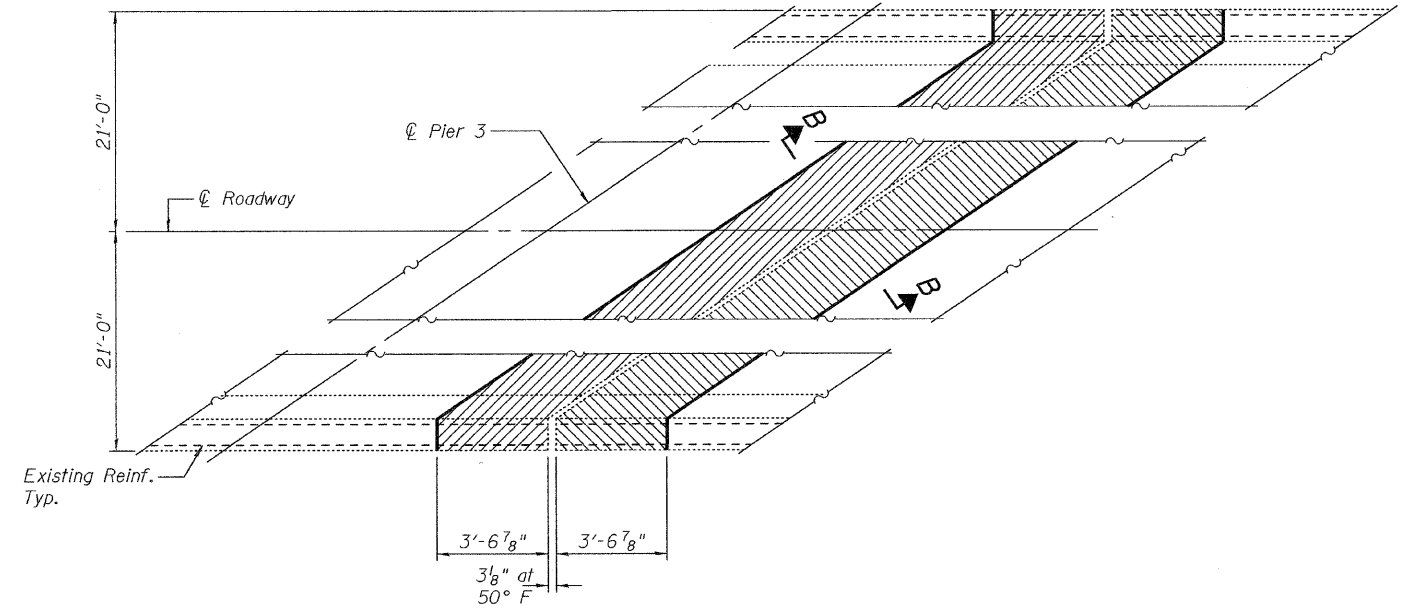
PLAN AND ELEVATION
SN 058-0103

SHEET NO. 1 9 SHEETS	F.A.P. RTE. 322	SECTION (58-20)RS	COUNTY Macon	TOTAL SHEETS 151	SHEET NO. 129
	FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT	CONTRACT NO. 74150	

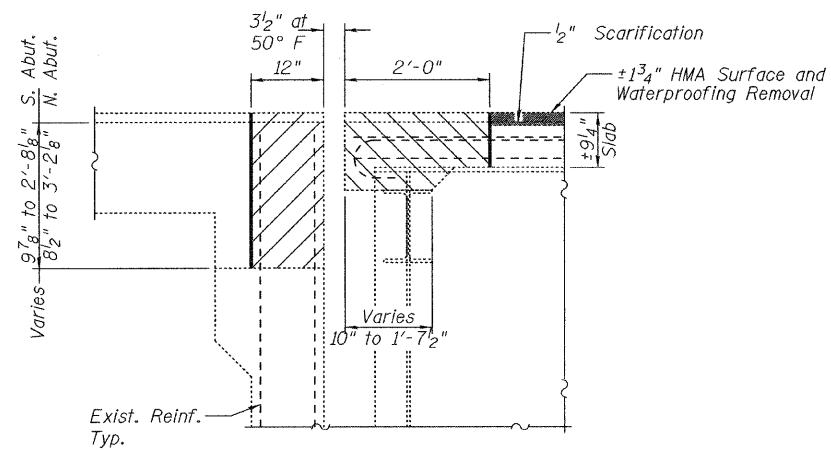
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



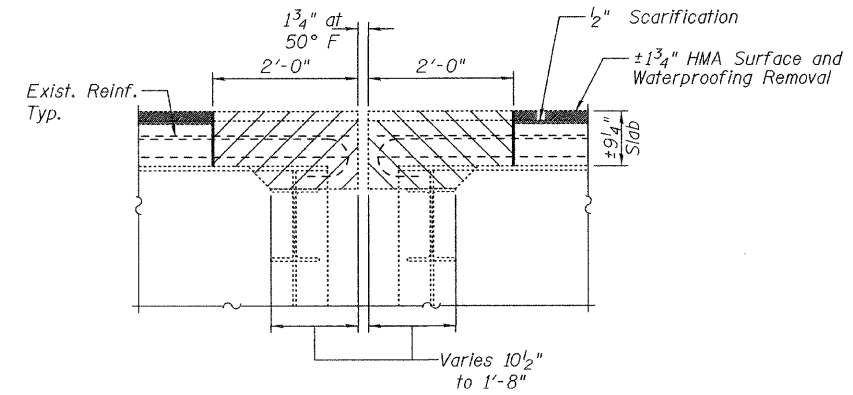
TYPICAL PLAN AT ABUTMENT
(South Abutment Shown, North Abutment Similar by Rotation)



PLAN AT HINGE JOINT



SECTION A-A



SECTION B-B

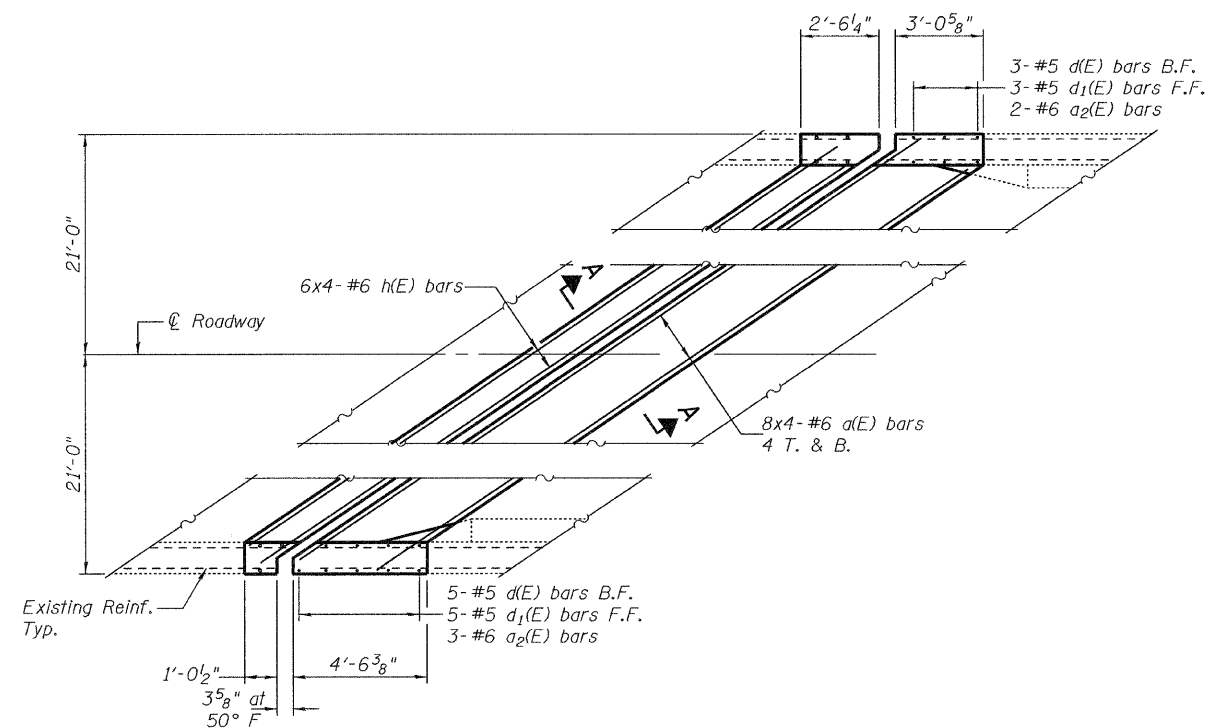
DESIGNED	A.T.H.
CHECKED	I.J.L.
DRAWN	Drew Christopher
CHECKED	A.T.H. I.J.L.

APPROVED	April 29, 2010
EXAMINED	<i>Carl P. ...</i>
PASSED	<i>Ralph E. Anderson</i>

REMOVAL DETAILS
SN 058-0103

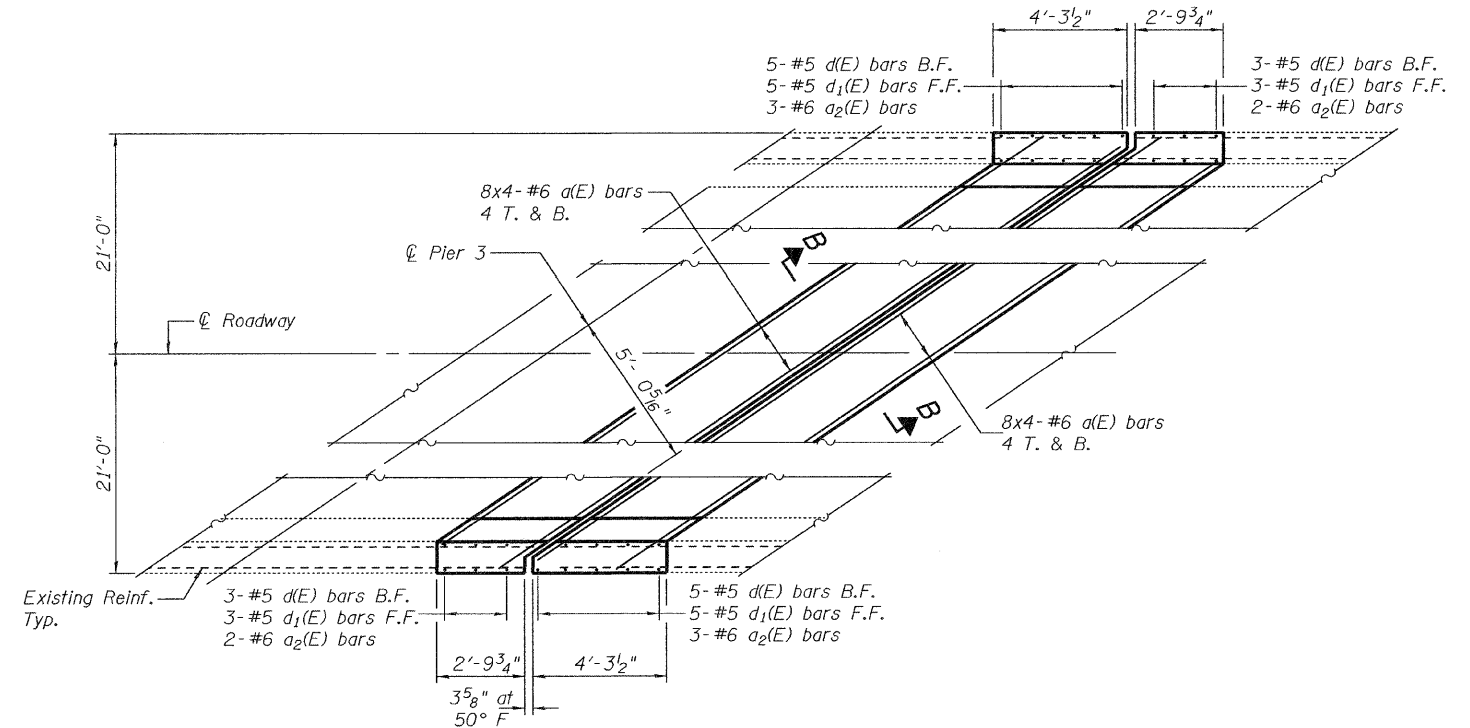
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	FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 74150	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

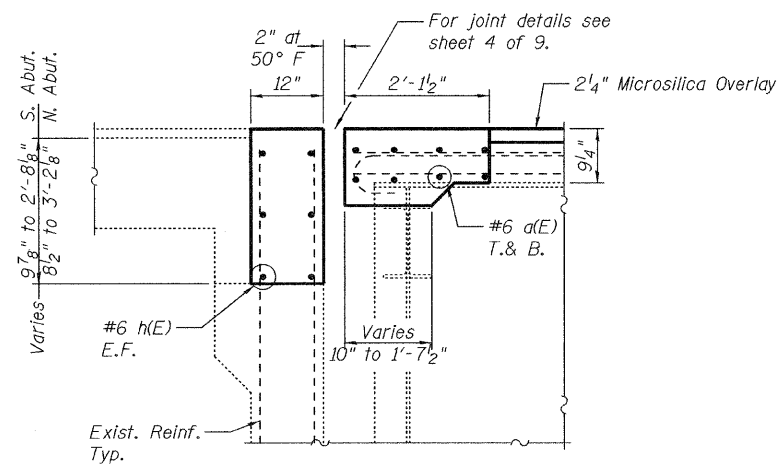


TYPICAL PLAN AT ABUTMENT

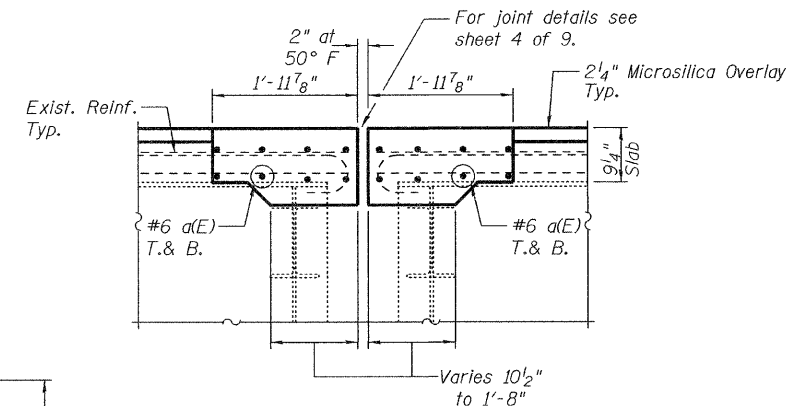
(South Abutment Shown, North Abutment Similar by Rotation)



PLAN AT HINGE JOINT



SECTION A-A



SECTION B-B

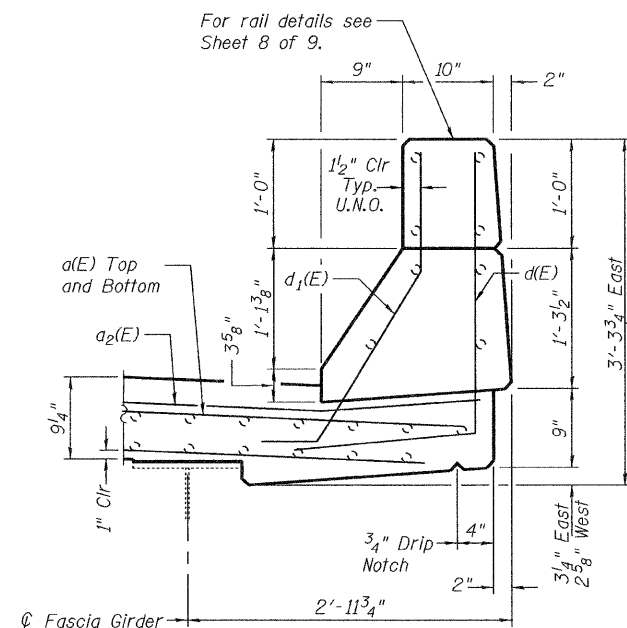
Min. Bar Lap

#6 = 3'-10"

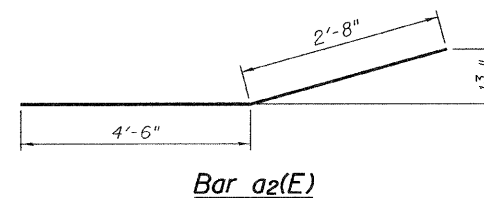
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a(E)	128	#6	20'-11"	—
a2(E)	20	#6	7'-2"	—
d(E)	32	#5	4'-3"	L
d1(E)	32	#5	3'-5"	L
h(E)	48	#6	20'-11"	—
Concrete Removal			Cu. Yd.	35.1
Concrete Superstructure			Cu. Yd.	35.9
Reinforcement Bars, Epoxy Coated			Lbs.	6,000

Bars indicated thus 8 x 4-#6 etc. indicates 8 line of bars with 4 lengths per line.



TYPICAL PARAPET SECTION



Bar a2(E)

DESIGNED	A.T.H.
CHECKED	I.J.L.
DRAWN	Drew Christopher
CHECKED	A.T.H. I.J.L.

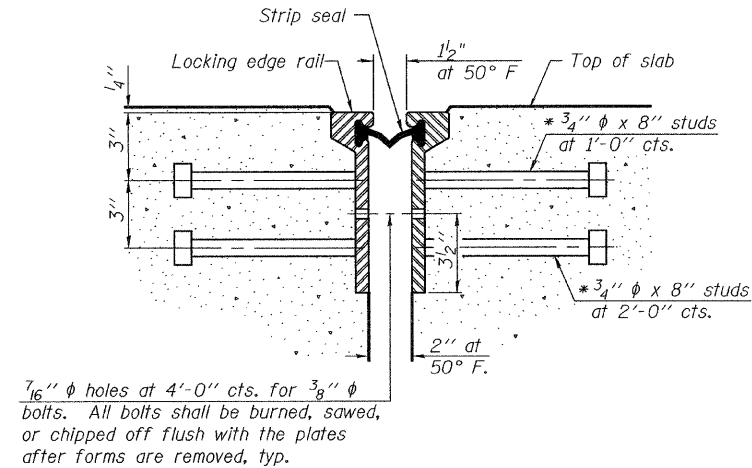
EXAMINED	April 29, 2010
PASSED	 ENGINEER OF STRUCTURAL SERVICES ENGINEER OF BRIDGES AND STRUCTURES

JOINT DETAILS
SN 058-0103

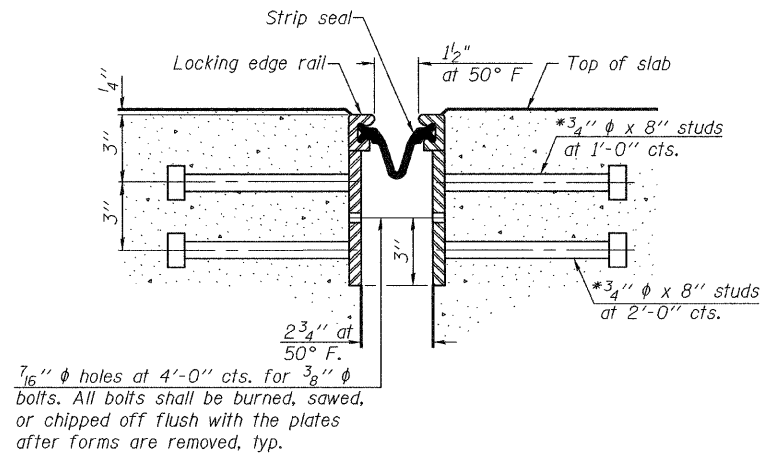
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	322	(58-20)RS	Macon	151	131
9 SHEETS	FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT	CONTRACT NO. 74150	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

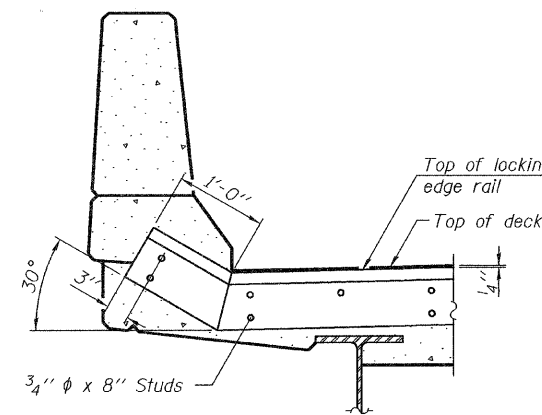
* Granular or solid Flux filled headed studs conforming to Article 1006.32 of the Std. Specs., automatically end welded.



SECTION THRU
ROLLED RAIL JOINT

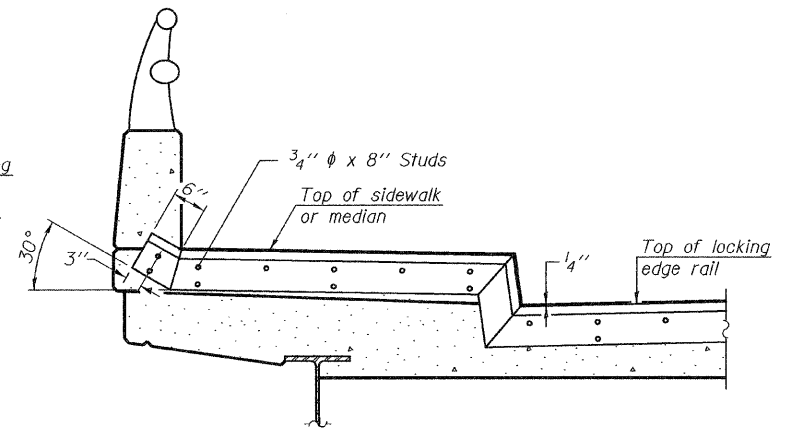


SECTION THRU
WELDED RAIL JOINT



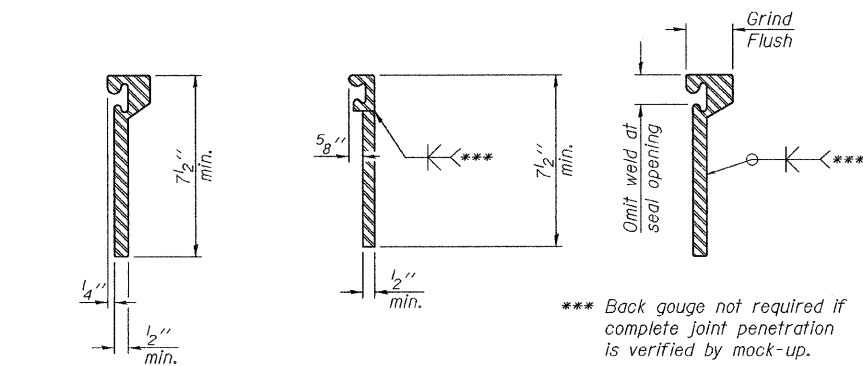
AT PARAPET

See Section A-A for end treatment of skews > 30°.



AT SIDEWALK OR MEDIAN

Shorter plates with a single row of studs at 12 inch cts. may be necessary on medians which are shallower than 9 inch. See manufacturer's recommendation.

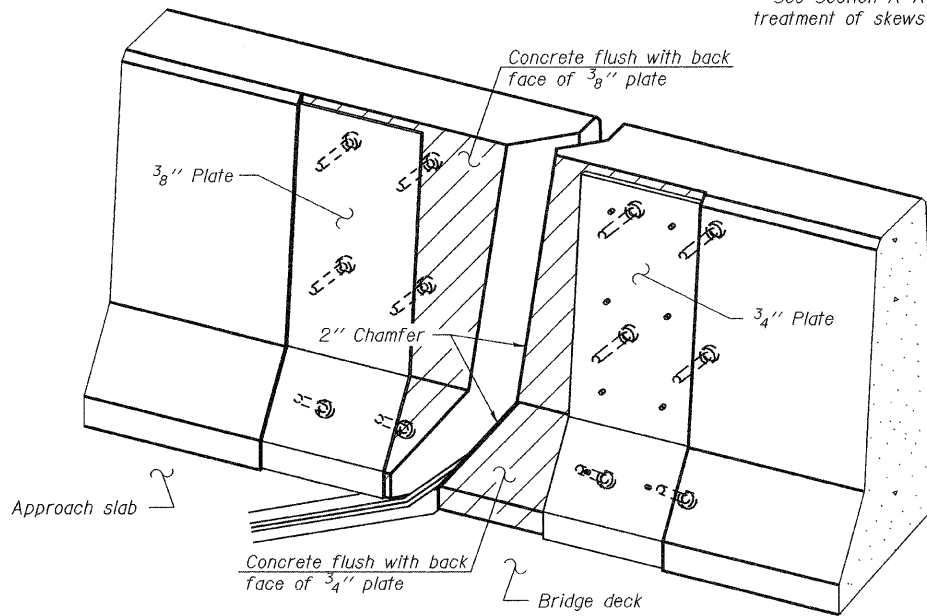


ROLLED
EXTRUDED RAIL

WELDED RAIL

LOCKING EDGE
RAIL SPLICE

The inside of the locking edge rail groove shall be free of weld residue.
Rolled rail shown, welded rail similar.



TYPICAL END TREATMENTS

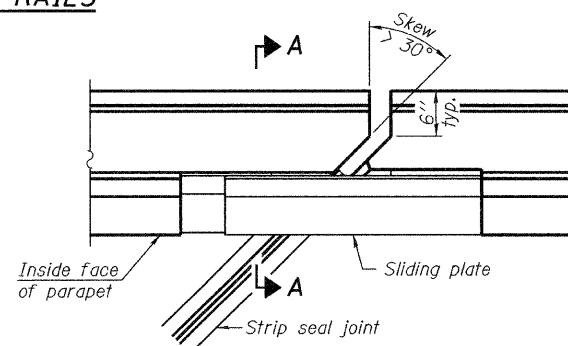
Notes:

The strip seal shall be made continuous and shall have a minimum thickness of 1/4 inch. The configuration of the strip seal shall match the configuration of the Locking Edge Rails. Open or "webbed" strip seal gland configurations are not permitted. The gland shall be sized for a maximum rated movement of 4 inches. The Locking Edge Rails depicted are conceptual only, except for the minimum dimensions shown. The actual configuration of the Locking Edge Rails and matching strip seal may vary from manufacturer to manufacturer. Flanged edge rails will not be allowed. Locking Edge Rails may be spliced at slope discontinuities.

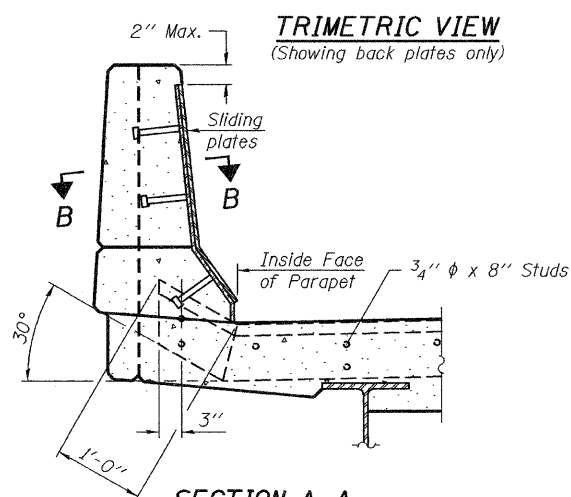
The manufacturer's recommended installation methods shall be followed. The joint opening and deck dimensions detailed on the superstructure are based on a rolled rail expansion joint. If the Contractor elects to use the welded rail expansion joint, the opening and deck dimensions shall be modified according to the dimensions detailed on this sheet. Required modifications shall be made at no additional cost to the State.

All steel components shall be galvanized after fabrication according to Article 520.03 of the Standard Specifications. Maximum space between rail segments at stage lines shall be 3/16 inch, sealed with a suitable sealant.

LOCKING EDGE RAILS

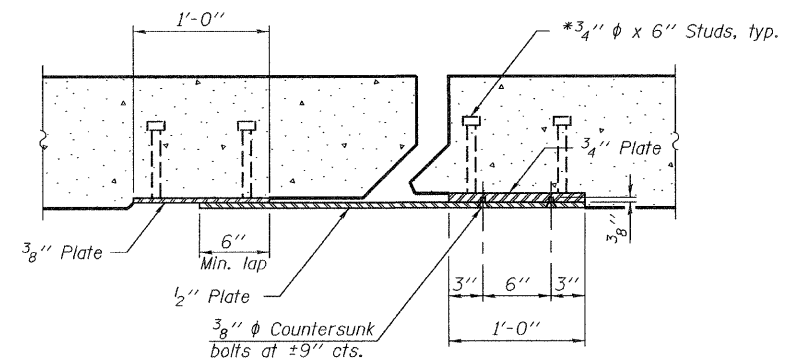


PLAN



SECTION A-A

POINT BLOCK DETAILS
(for skews > 30°)



SECTION B-B

BILL OF MATERIAL

Item	Unit	Total
Preformed Joint Strip Seal	Foot	206

STRIP SEAL DETAILS
SN 058-0103

DESIGNED	A.T.H.
CHECKED	I.J.L.
DRAWN	Drew Christopher
CHECKED	A.T.H. I.J.L.

EXAMINED	April 29, 2010
PASSED	Ralph E. Anderson ENGINEER OF BRIDGES AND STRUCTURES

SHEET NO. 4	F.A.P. RTE. 322	SECTION (58-20)RS	COUNTY Macon	TOTAL SHEETS 151	SHEET NO. 132
9 SHEETS	FED. ROAD DIST. NO. ILLINOIS		FED. AID PROJECT CONTRACT NO. 74150		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BEAM REACTIONS

R _P	(K)	34.4
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Notes:
Diaphragm removal and installation may be required to facilitate drilling holes. Cost included with Furnishing and Erecting Structural Steel.
New steel extensions, shim plates and connection bolts are included with 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 = 30 Tons.
Anchor bolts shall be ASTM F1554 all-thread (or an Engineer-approved alternate material) of the grade(s) and diameter(s) specified. ASTM A307 Grade C anchor bolts may be used in lieu of ASTM F1554 Grade 36 (F_y=36ksi). The corresponding specified grade of AASHTO M314 anchor bolts may be used in lieu of ASTM F1554.

Anchor bolts at fixed bearings may be either cast in place or installed in holes drilled after the supported member is in place.

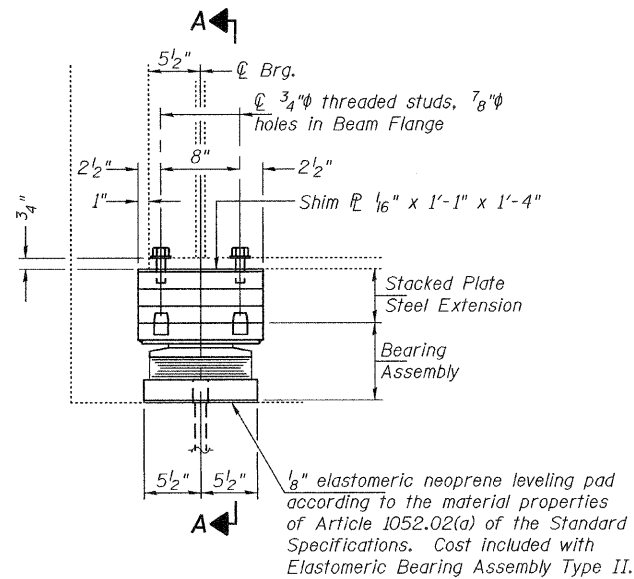
Anchor bolts for Type II bearings shall be placed in holes drilled through the bottom bearing plate after members are in place. Side retainers shall be placed after bolts are installed.

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

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

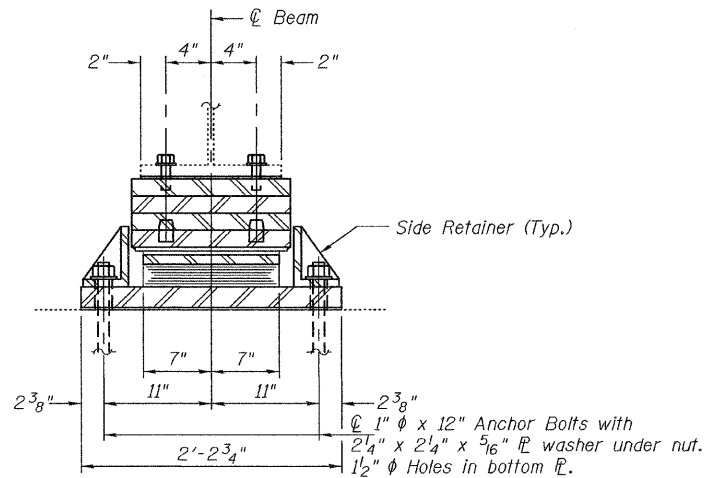
The 1/8" PTFE sheet shall be bonded directly to the top steel plate with a two-component, medium viscosity epoxy resin, conforming to the requirements of the Federal Specification MMM-A-134, Type I. The bond agent shall be applied on the full area of the contact surfaces.

Bonding of 1/8" PTFE sheet during vulcanizing process will be permitted provided the process and method of adjusting assembly height is approved by the Engineer.

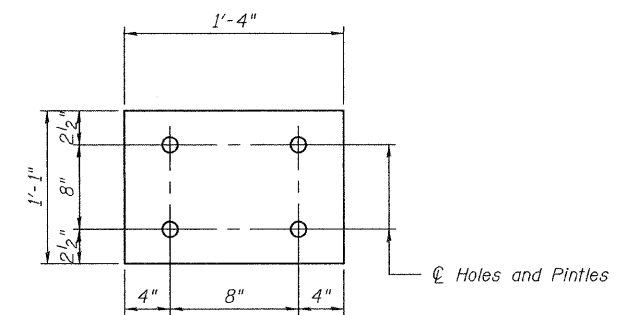


ELEVATION AT ABUTMENT

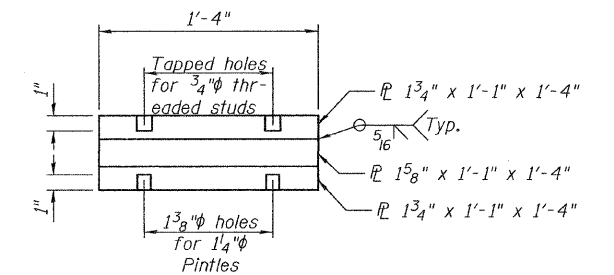
TYPE II TFE ELASTOMERIC EXP. BRG.



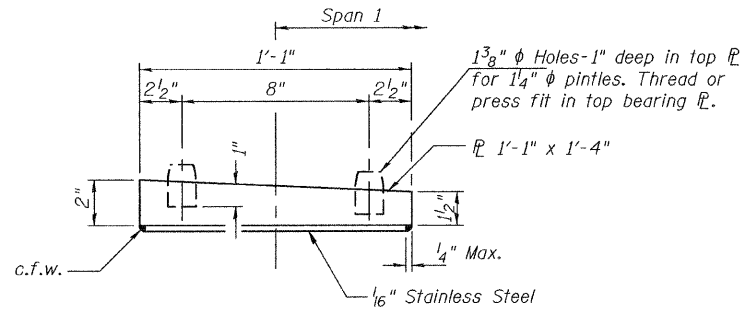
SECTION A-A



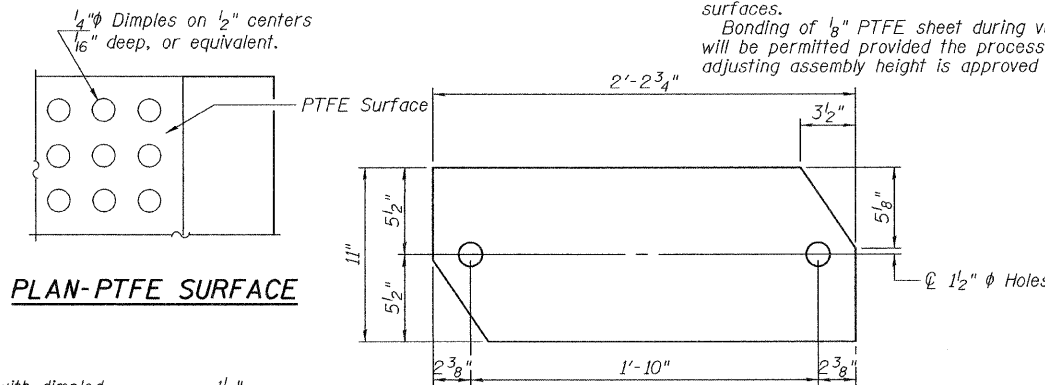
PLAN TOP AND BOTTOM PLATE



STEEL EXTENSION DETAIL

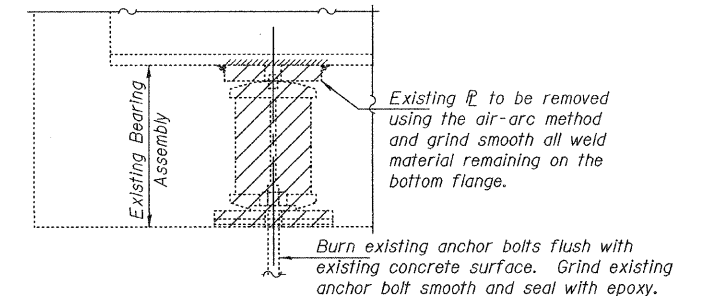


TOP BEARING ASSEMBLY

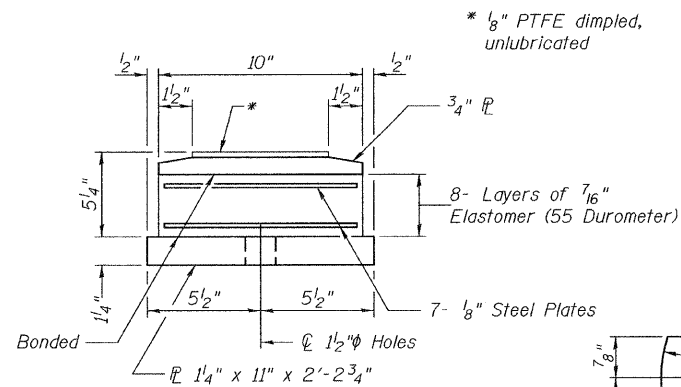


PLAN-PTFE SURFACE

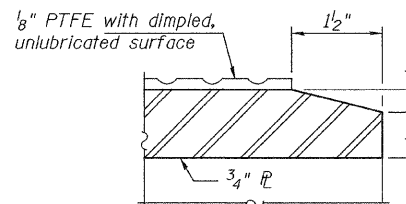
BEARING BOTTOM PLATE PLAN



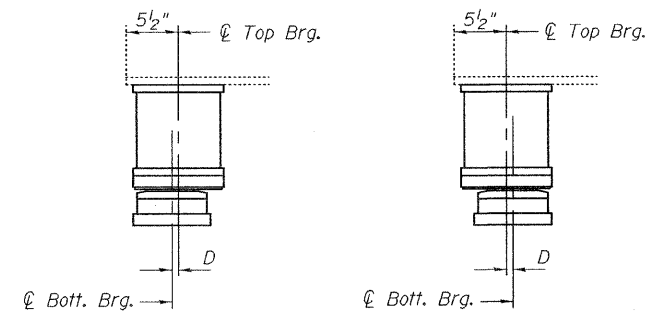
EXISTING BEARING REMOVAL DETAIL



BOTTOM BEARING ASSEMBLY



SECTION THRU PTFE



BELOW 50° F. (Move bott. brg. away from fixed brg.)
ABOVE 50° F. (Move bott. brg. toward fixed brg.)

SETTING ANCHOR BOLTS AT EXP. BRG.

D = 1/8" per each 100' of expansion for every 15° temp. change from the normal temp. of 50°F.

Cost included with Jack and Remove Existing Bearings.

BILL OF MATERIAL

Item	Unit	Total
Elastomeric Bearing Assembly, Type II	Each	6
Jack and Remove Existing Bearings	Each	6
Furnishing and Erecting Structural Steel	Pound	1,850
Anchor Bolts 1"	Each	12

**SOUTH ABUTMENT BEARING DETAILS
SN 058-0103**

DESIGNED	A.T.H.
CHECKED	I.J.L.
DRAWN	Drew Christopher
CHECKED	A.T.H. I.J.L.

APPROVED	April 29, 2010
EXAMINED	<i>Carl Honey</i> ENGINEER OF STRUCTURAL SERVICES
PASSED	<i>Ralph E. Anderson</i> ENGINEER OF BRIDGES AND STRUCTURES

TYII/REPS 12-03-2008

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

SHEET NO. 5 9 SHEETS	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	322	(58-20)RS	Macon	151	133
FED. ROAD DIST. NO.			ILLINOIS FED. AID PROJECT		
			CONTRACT NO. 74150		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BEAM REACTIONS

R#	(K)	18.2
----	-----	------

Notes:
Diaphragm removal and reinstallation may be required to facilitate drilling holes. Cost included with Furnishing and Erecting Structural Steel.
New steel extensions, shim plates and connection bolts are included with 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 = 15 Tons.

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

Anchor bolts at fixed bearings may be either cast in place or installed in holes drilled after the supported member is in place.

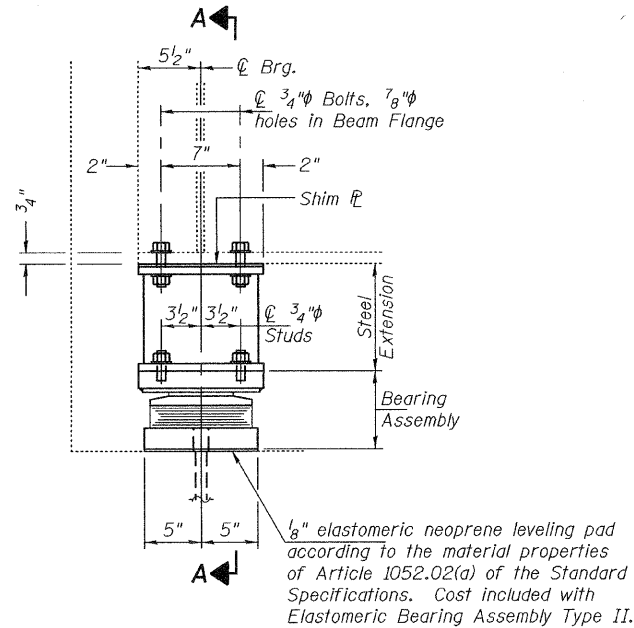
Anchor bolts for Type II bearings shall be placed in holes drilled through the bottom bearing plate after members are in place. Side retainers shall be placed after bolts are installed.

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

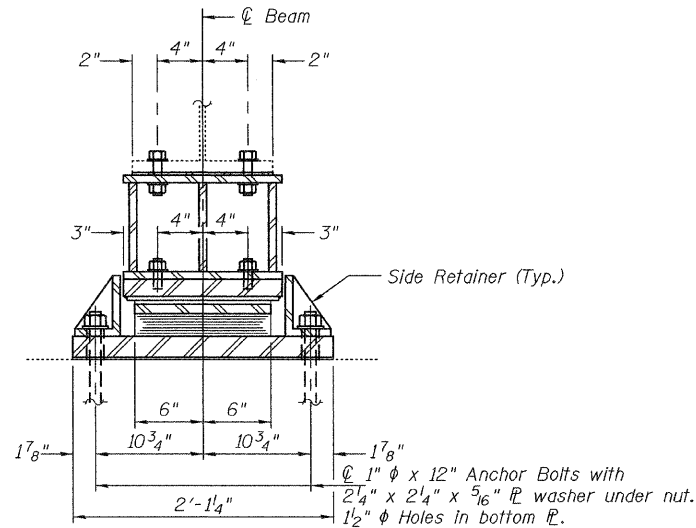
Side retainers shall be included in the cost of Elastomeric Bearing Assembly, Type II.

The 1/8" 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 1/8" PTFE sheet during vulcanizing process will be permitted provided the process and method of adjusting assembly height is approved by the Engineer.

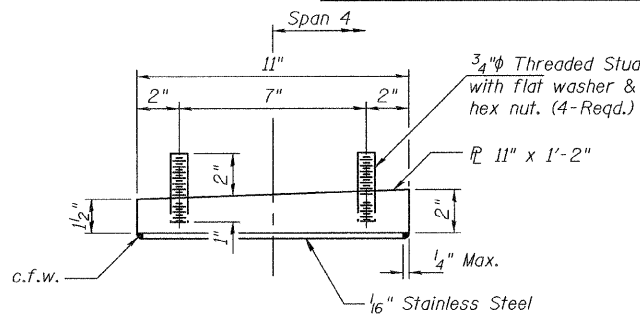


ELEVATION AT ABUTMENT

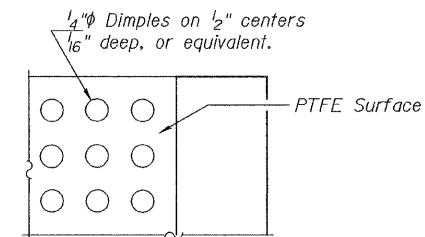


SECTION A-A

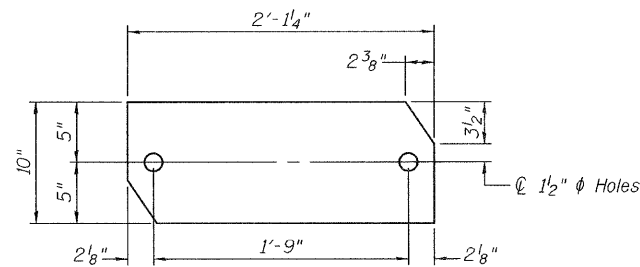
TYPE II TFE ELASTOMERIC EXP. BRG.



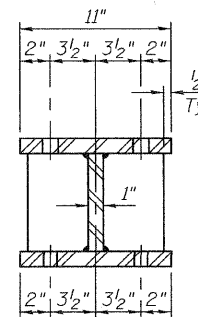
TOP BEARING ASSEMBLY



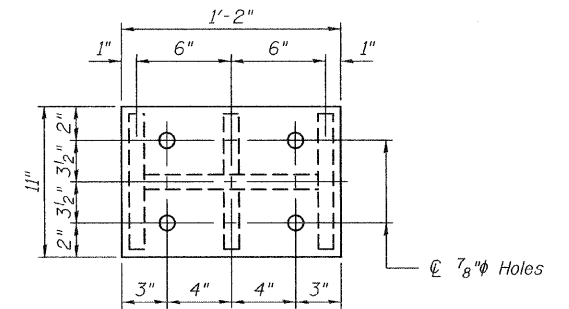
PLAN-PTFE SURFACE



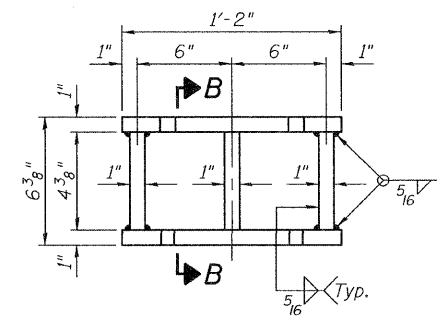
BOTTOM BEARING PLATE PLAN



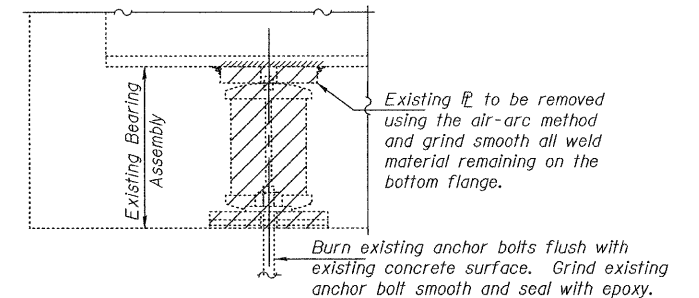
SECTION B-B



PLAN TOP AND BOTTOM PLATE

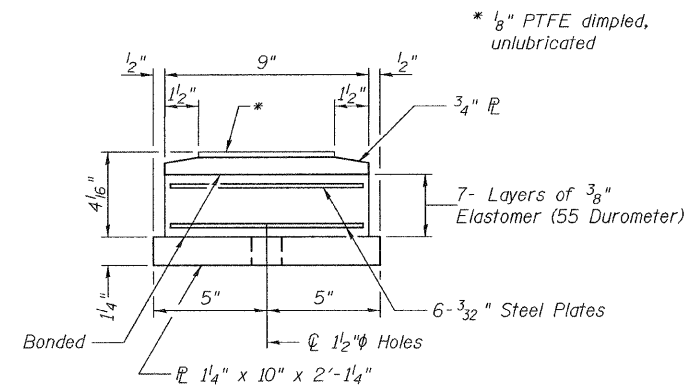


STEEL EXTENSION DETAIL

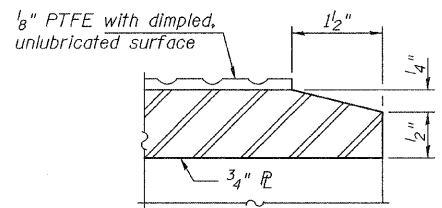


EXISTING BEARING REMOVAL DETAIL

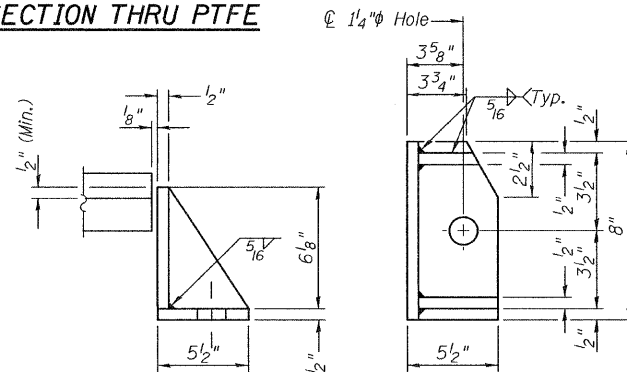
Cost included with Jack and Remove Existing Bearings.



BOTTOM BEARING ASSEMBLY

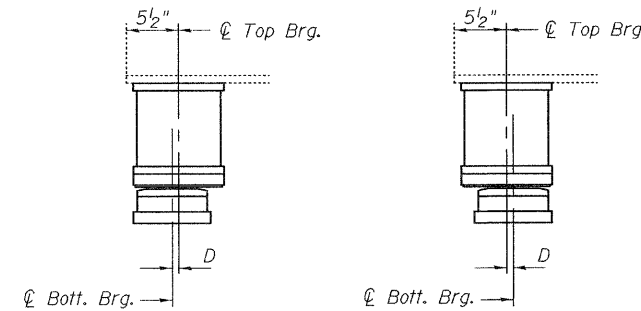


SECTION THRU PTFE



SIDE RETAINER

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



BELOW 50° F. (Move bott. brg. away from fixed brg.) ABOVE 50° F. (Move bott. brg. toward fixed brg.)

SETTING ANCHOR BOLTS AT EXP. BRG.

D = 1/8" 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	2
Jack and Remove Existing Bearings	Each	2
Furnishing and Erecting Structural Steel	Pound	280
Anchor Bolts 1" phi	Each	4

NORTH ABUTMENT GIRDERS 1 & 6

BEARING DETAILS

SN 058-0103

DESIGNED	A.T.H.
CHECKED	I.J.L.
DRAWN	Drew Christopher
CHECKED	A.T.H. I.J.L.

APPROVED	April 29, 2010
EXAMINED	<i>Carl Proyer</i> ENGINEER OF STRUCTURAL SERVICES
PASSED	<i>Ralph E. Anderson</i> ENGINEER OF BRIDGES AND STRUCTURES

TYII/REPS 12-03-2008

SHEET NO. 6	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	322	(58-20)RS	Macon	151	134
9 SHEETS	FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT	CONTRACT NO. 74150		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BEAM REACTIONS

R	(K)	18.2
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Notes:
Diaphragm removal and reinstallation may be required to facilitate drilling holes. Cost included with Furnishing and Erecting Structural Steel.
New steel extensions, shim plates and connection bolts are included with 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 = 15 Tons.

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

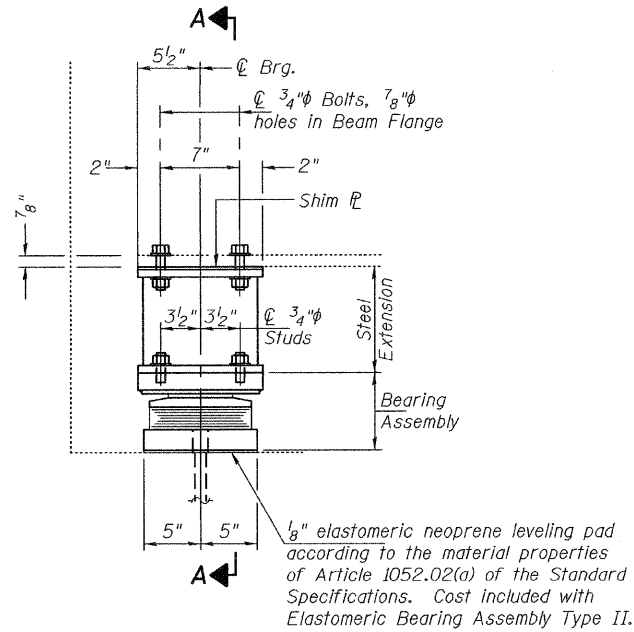
Anchor bolts at fixed bearings may be either cast in place or installed in holes drilled after the supported member is in place.

Anchor bolts for Type II bearings shall be placed in holes drilled through 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 521.06 of the Standard Specifications. Side retainers shall be included in the cost of Elastomeric Bearing Assembly, Type II.

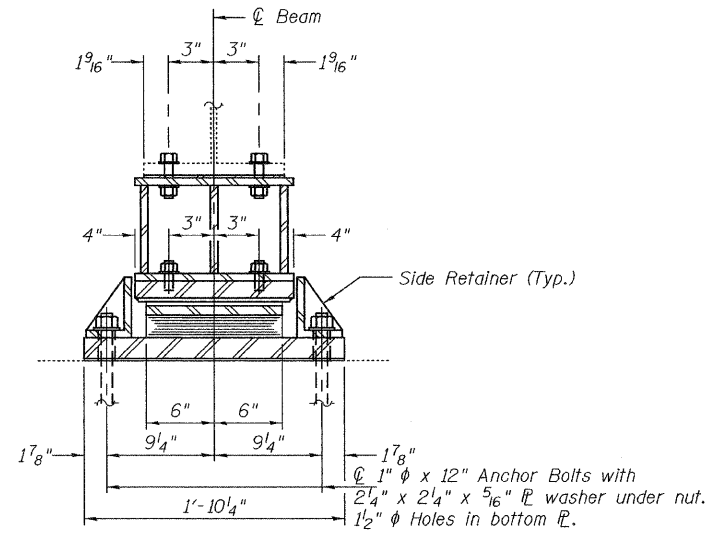
The 1/8" PTFE sheet shall be bonded directly to the top steel plate with a two-component, medium viscosity epoxy resin, conforming to the requirements of the Federal Specification MMM-A-134, Type I. The bond agent shall be applied on the full area of the contact surfaces.

Bonding of 1/8" PTFE sheet during vulcanizing process will be permitted provided the process and method of adjusting assembly height is approved by the Engineer.

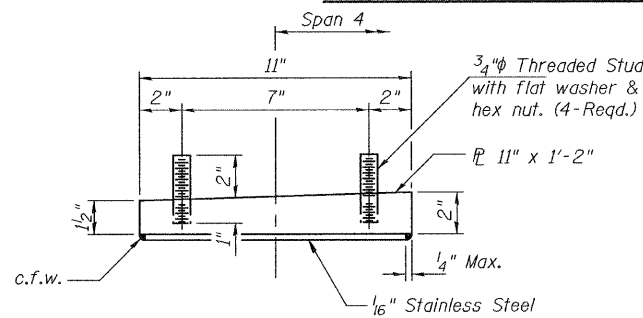


ELEVATION AT ABUTMENT

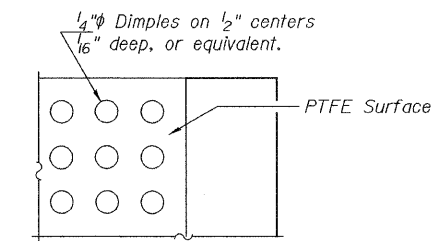
TYPE II TFE ELASTOMERIC EXP. BRG.



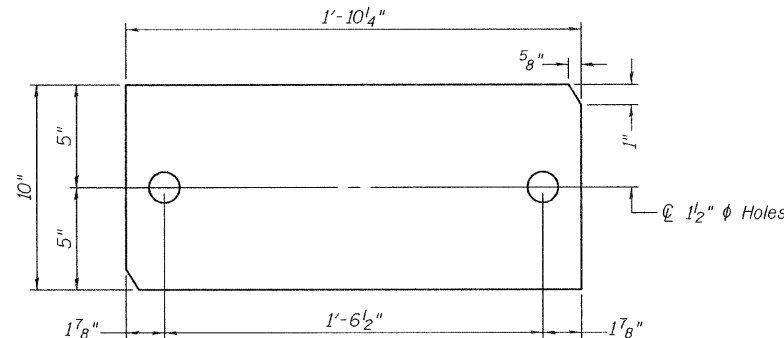
SECTION A-A



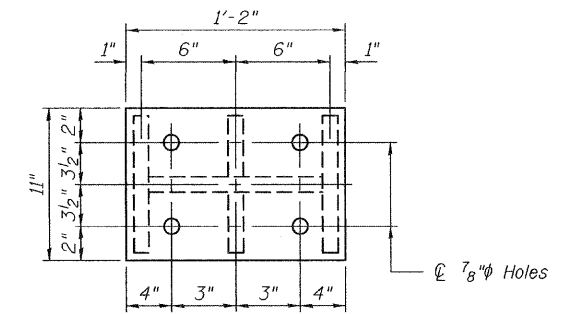
TOP BEARING ASSEMBLY



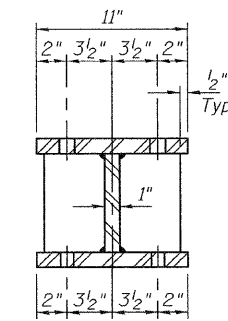
PLAN-PTFE SURFACE



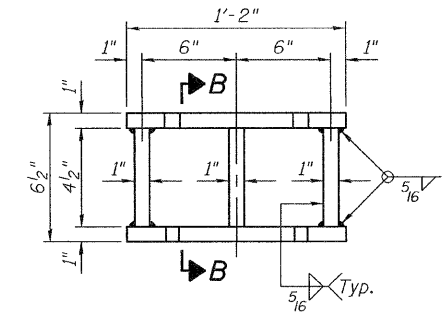
BEARING BOTTOM PLATE PLAN



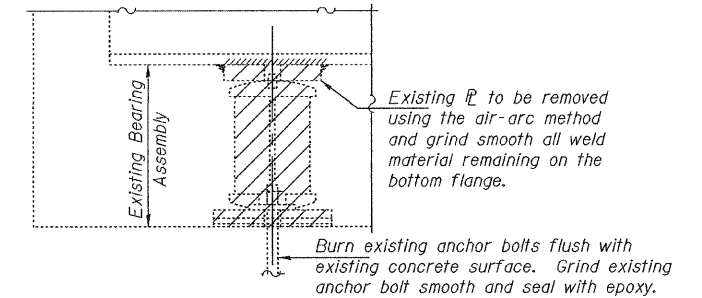
PLAN TOP AND BOTTOM PLATE



SECTION B-B

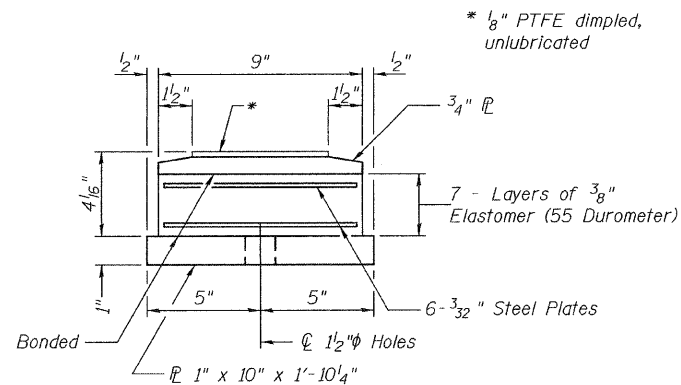


STEEL EXTENSION DETAIL

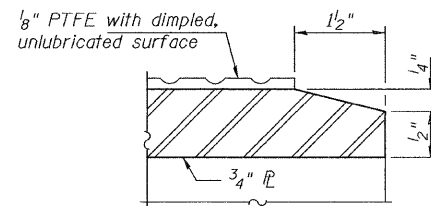


EXISTING BEARING REMOVAL DETAIL

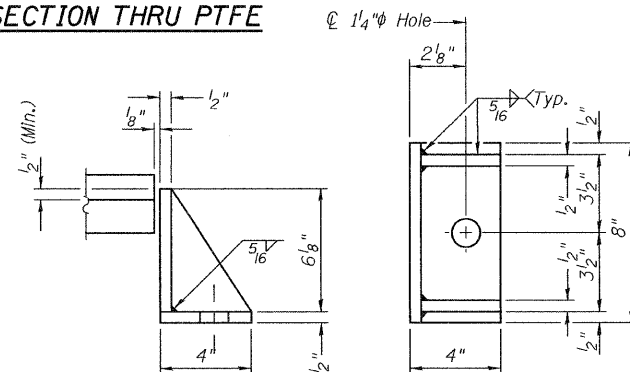
Cost Included with Jack and Remove Existing Bearings.



BOTTOM BEARING ASSEMBLY

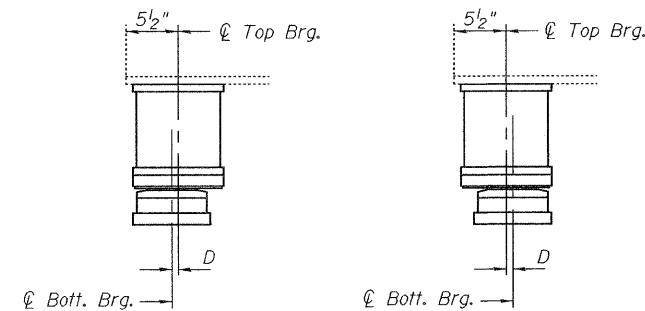


SECTION THRU PTFE



SIDE RETAINER

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



BELOW 50° F. (Move bott. brg. away from fixed brg.) ABOVE 50° F. (Move bott. brg. toward fixed brg.)

SETTING ANCHOR BOLTS AT EXP. BRG.

D = 1/8" 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	4
Jack and Remove Existing Bearings	Each	4
Furnishing and Erecting Structural Steel	Pound	560
Anchor Bolts 1"φ	Each	8

NORTH ABUTMENT BEAMS 2 THRU 5

BEARING DETAILS

SN 058-0103

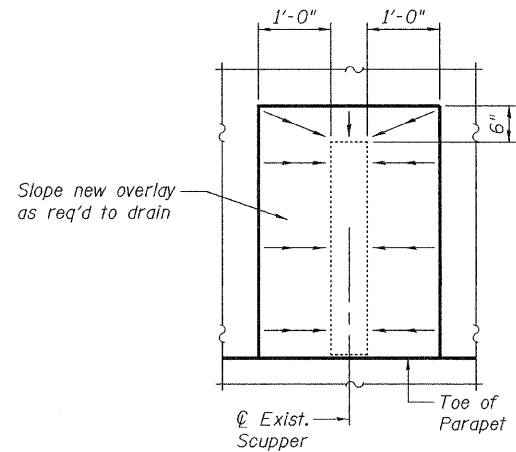
DESIGNED	A.T.H.
CHECKED	I.J.L.
DRAWN	Drew Christopher
CHECKED	A.T.H. I.J.L.

APPROVED	April 29, 2010
EXAMINED	<i>Carl Perry</i> ENGINEER OF STRUCTURAL SERVICES
PASSED	<i>Ralph E. Anderson</i> ENGINEER OF BRIDGES AND STRUCTURES

TYII/REPS 12-03-2008

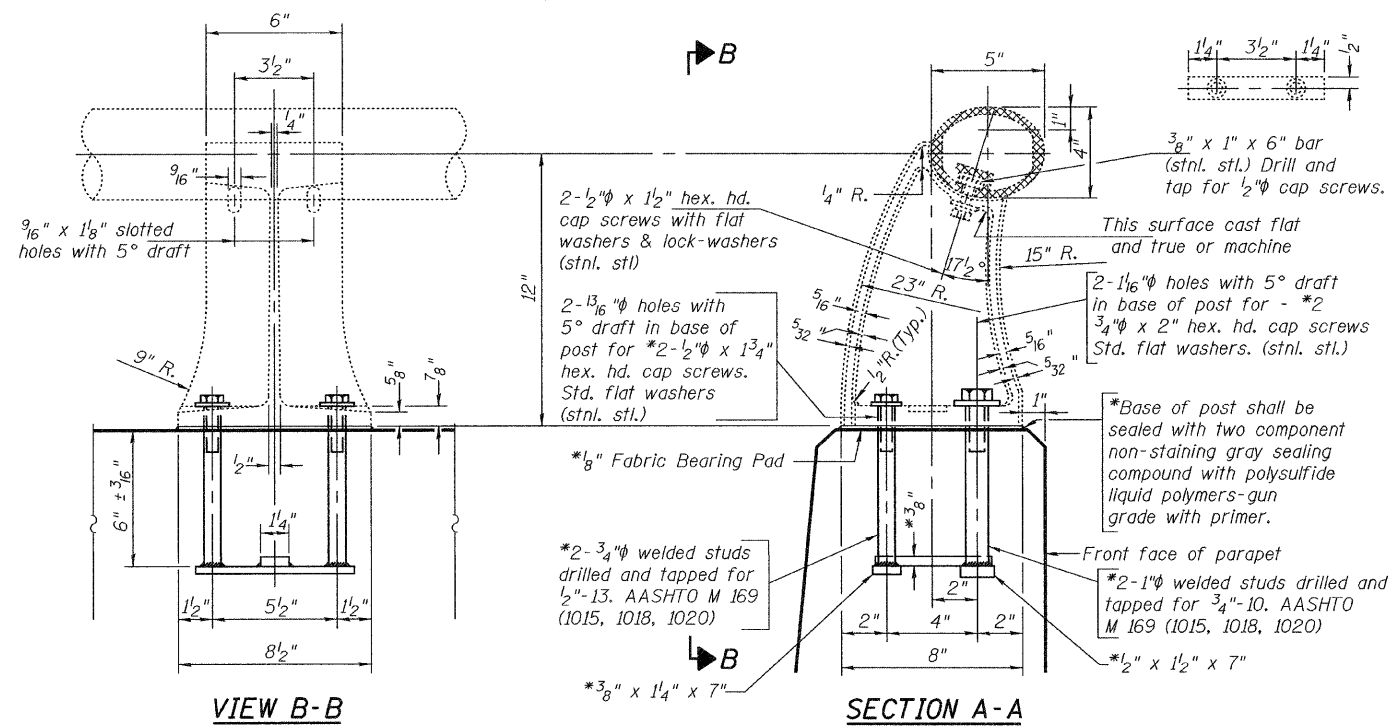
SHEET NO. 7	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	322	(58-20)RS	Macon	151	135
9 SHEETS	FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT	CONTRACT NO. 74150		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



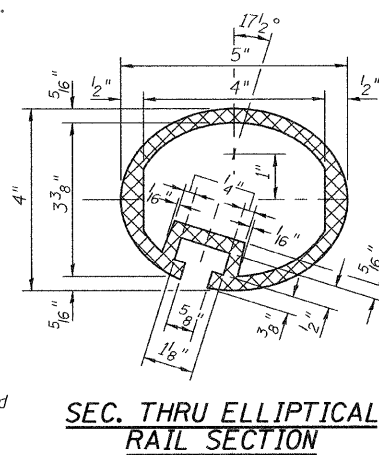
**OVERLAY SLOPE DETAIL
AT SCUPPER LOCATIONS**

Notes:
All Posts shall be normal to parapet.
All joints in rail shall be spliced per detail.
Provide 1- $\frac{1}{8}$ " and 2- $\frac{1}{16}$ " Aluminum Shims for 25% of the Posts.
Rail elements shall be parallel to Grade-high spots will be ground and low spots shimmed.
Horizontal rail element & rail posts shown are for information only.

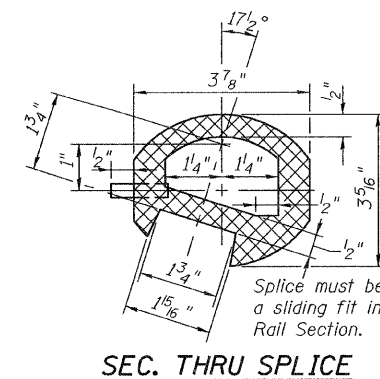


RAIL POST DETAILS

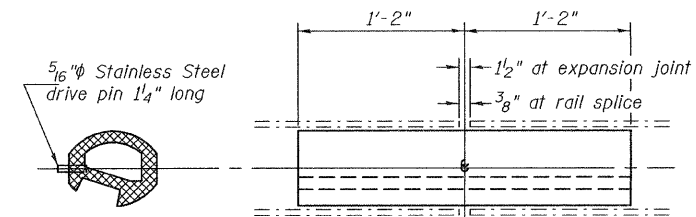
* New Rail Post anchorage devices will be required at each location where posts are connected to new construction. Cost shall be included with Removing and Re-erecting Existing Railing.



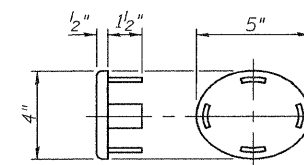
**SEC. THRU ELLIPTICAL
RAIL SECTION**



SEC. THRU SPLICE



RAIL SPLICE



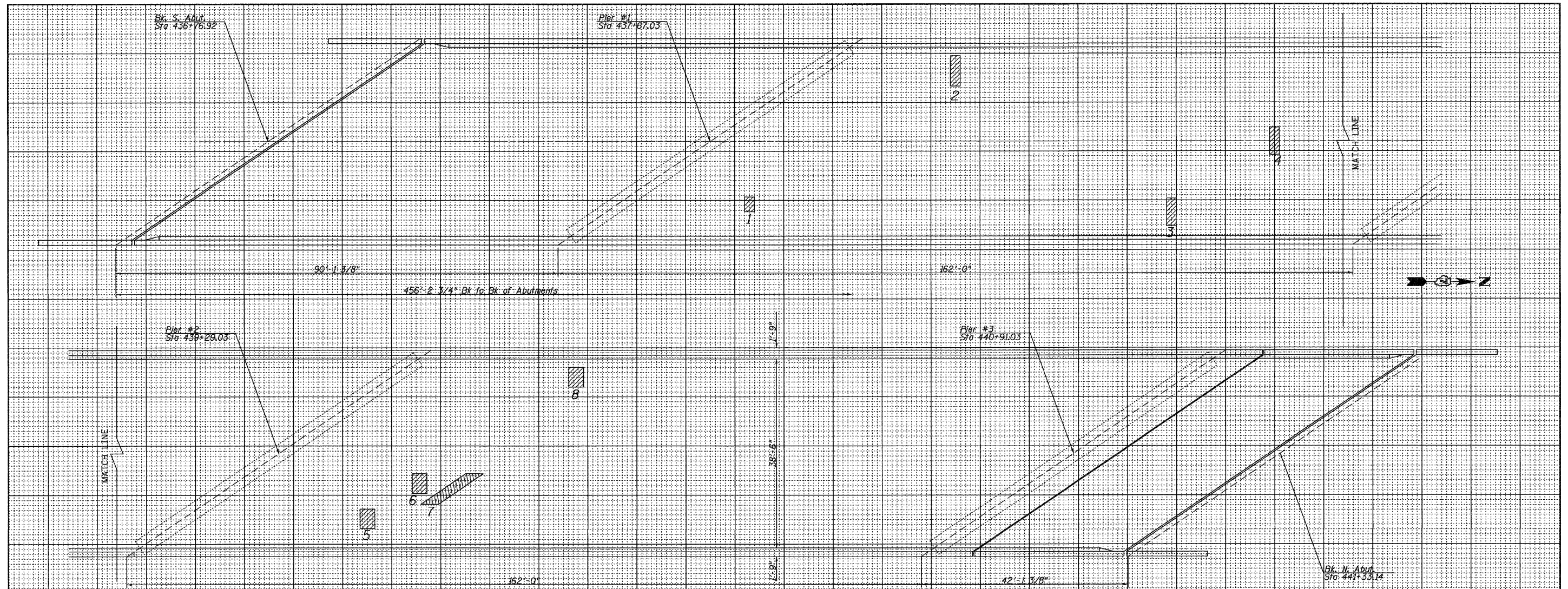
**CAST END CAP
DRIVE FIT TYPE**

**RAILING AND OVERLAY DETAILS
SN 058-0103**

DESIGNED	A.T.H.
CHECKED	I.J.L.
DRAWN	Drew Christopher
CHECKED	A.T.H. I.J.L.
R17/REPS 1-27-2000	

APPROVED	April 29, 2010
EXAMINED	<i>Carl Honey</i> ENGINEER OF STRUCTURAL SERVICES
PASSED	<i>Ralph E. Anderson</i> ENGINEER OF BRIDGES AND STRUCTURES

SHEET NO. 8	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	322	(58-20)RS	Macon	151	136
9 SHEETS	FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT	CONTRACT NO. 74150	



PATCH NO.	SIZE	DECK SLAB REPAIR (PART DEPTH)		DECK SLAB REPAIR (FD TY 1)		DECK SLAB REPAIR (FD TY 2)	
		SO	YD	SO	YD	SO	YD
1	2.0 x 3.0					6.0	
2	2.0 x 5.5					11.0	
3	2.0 x 5.5					11.0	
4	2.0 x 5.5					11.0	
5	3.0 x 4.0					12.0	
6	3.0 x 4.0					12.0	
7	2.0 x 11.0					22.0	
8	3.0 x 4.0					12.0	
	TOTAL	1683		0		97	

PATCH NO.	SIZE	DECK SLAB REPAIR (PART DEPTH)		DECK SLAB REPAIR (FD TY 1)		DECK SLAB REPAIR (FD TY 2)	
		SO	YD	SO	YD	SO	YD
	PARTIAL DEPTH (ESTIMATED)						
	1683 / 9 = 187.0						
	USE	187		SO	YD		
	FULL DEPTH, TYPE 1						
	0 / 9 = 0.0						
	USE	0		SO	YD		
	FULL DEPTH, TYPE 2						
	97 / 9 = 10.8						
	USE	11		SO	YD		

THE LOCATIONS AND SIZES SHOWN GRAPHICALLY ABOVE ARE APPROXIMATE. SEE THIS TABLE FOR ACTUAL SIZES.

PATCHING LEGEND

PARTIAL DEPTH ESTIMATED AT 10% OF DECK AREA. (FOR INFORMATION ONLY)

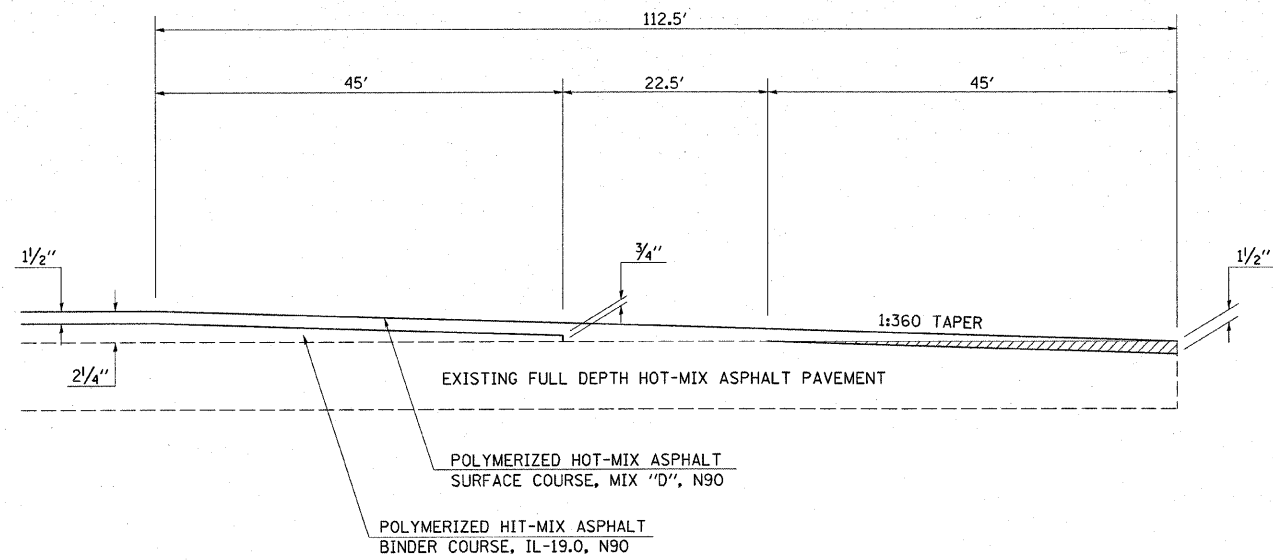
FULL DEPTH

DATE OF SURVEY: 1/6/10
 SURVEY BY: M. ALLEN, A. RING
 METHOD OF SURVEY: VISUAL

BRIDGE DECK PATCHING
 MACON COUNTY
 US 51
 SN 058-0103

BUTT JOINT DETAIL

RAMP A ENTRANCE
RAMP D EXIT

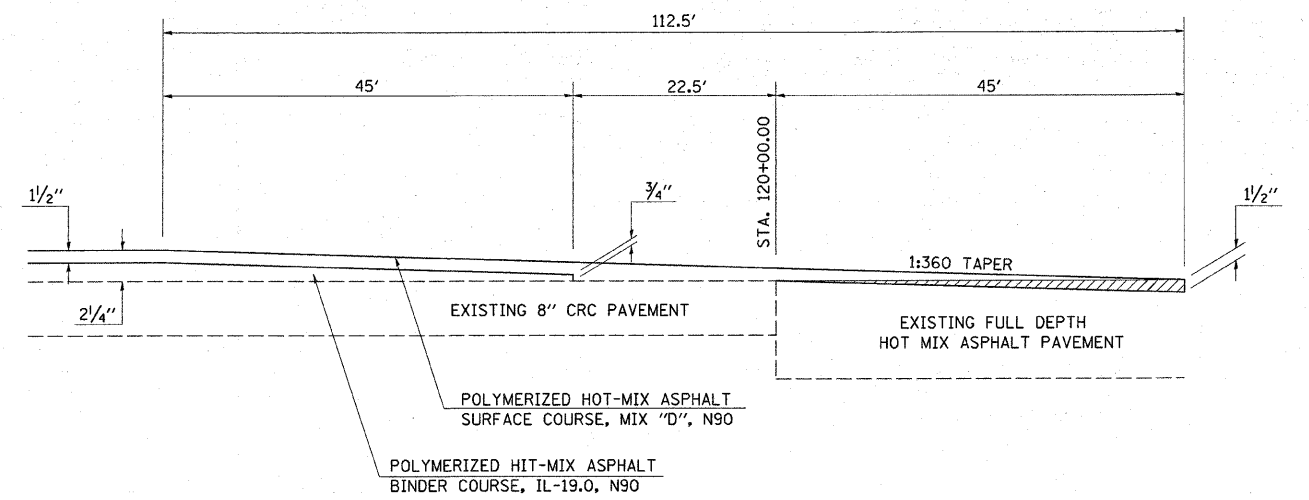


HOT-MIX ASPHALT SURFACE REMOVAL (BUTT JOINT)

NOTE: DETAIL NOT DRAWN TO SCALE

BUTT JOINT DETAIL

STA. 119+55.00 TO STA. 120+67.50 NB/SB

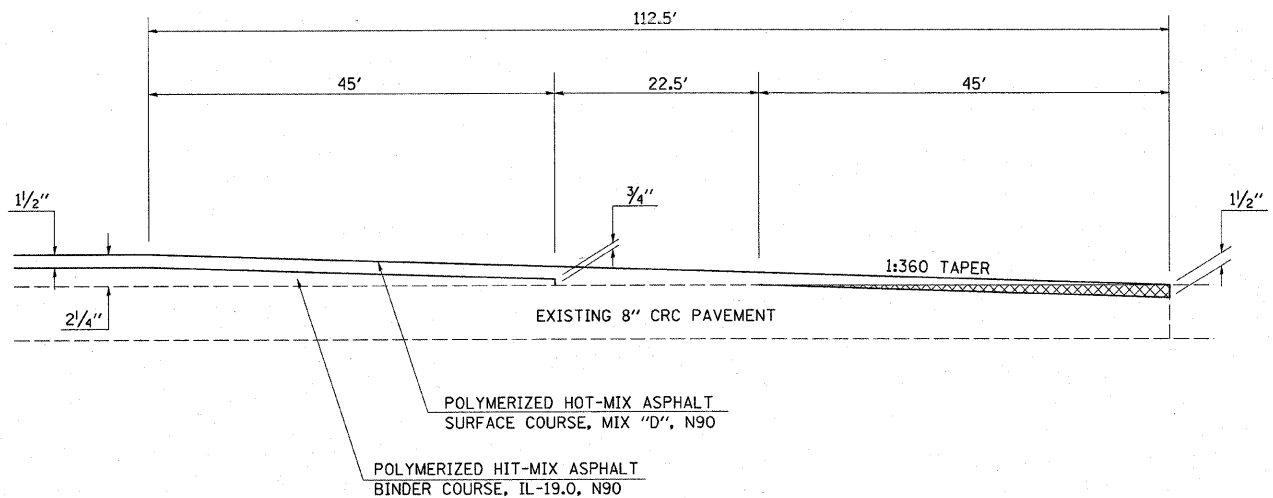


HOT-MIX ASPHALT SURFACE REMOVAL (BUTT JOINT)

NOTE: DETAIL NOT DRAWN TO SCALE

BUTT JOINT DETAIL

STA. 366+27.50 TO STA. 367+40.00 NB/SB

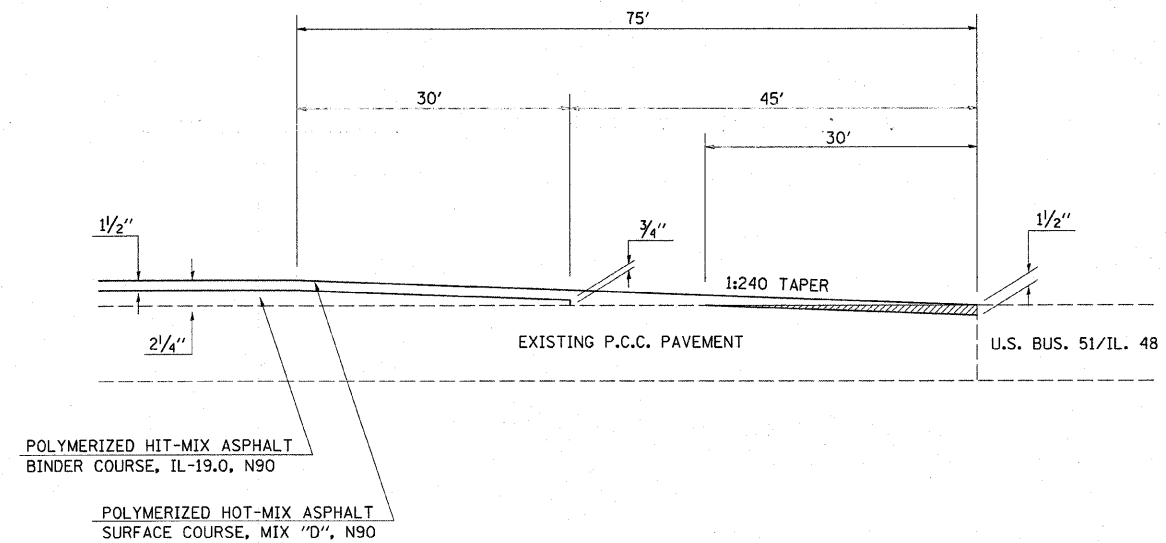


PCC SURFACE REMOVAL (BUTT JOINT)

NOTE: DETAIL NOT DRAWN TO SCALE

BUTT JOINT DETAIL

RAMPS A & B, C & D @ U.S. BUS. 51 & IL. 48



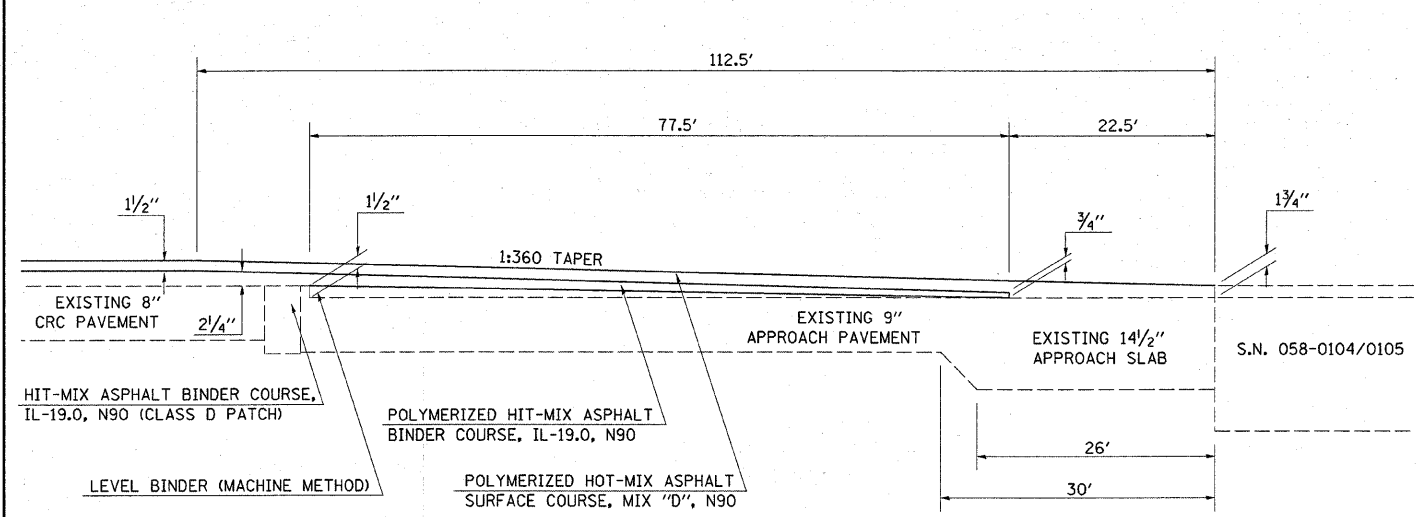
HOT-MIX ASPHALT SURFACE REMOVAL (BUTT JOINT)

NOTE: DETAIL NOT DRAWN TO SCALE

FILE NAME =	USER NAME = swartzw	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DISTRICT DETAILS			F.A.P. RTE. 322	SECTION (58-20)RS	COUNTY MACON	TOTAL SHEETS 151	SHEET NO. 138
ct:\pw_work\pwsdot\swartzw\0138928\0774150-details.dgn		DRAWN -	REVISED -		SCALE: NA	SHEET NO. 1 OF 6 SHEETS	STA.	TO STA.	CONTRACT NO. 74150			
PLOT SCALE = 20.0000' / IN.		CHECKED -	REVISED -		ILLINOIS FED. AID PROJECT							
PLOT DATE = 3/17/2018		DATE -	REVISED -									

BUTT JOINT DETAIL

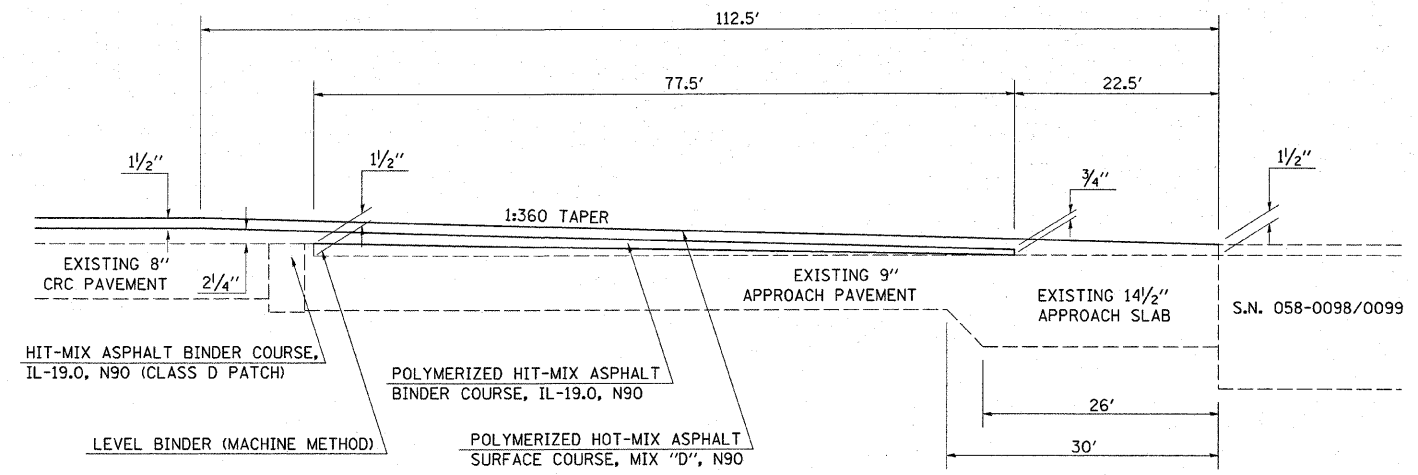
SN 058-0104/0105



NOTE: DETAIL NOT DRAWN TO SCALE

BUTT JOINT DETAIL

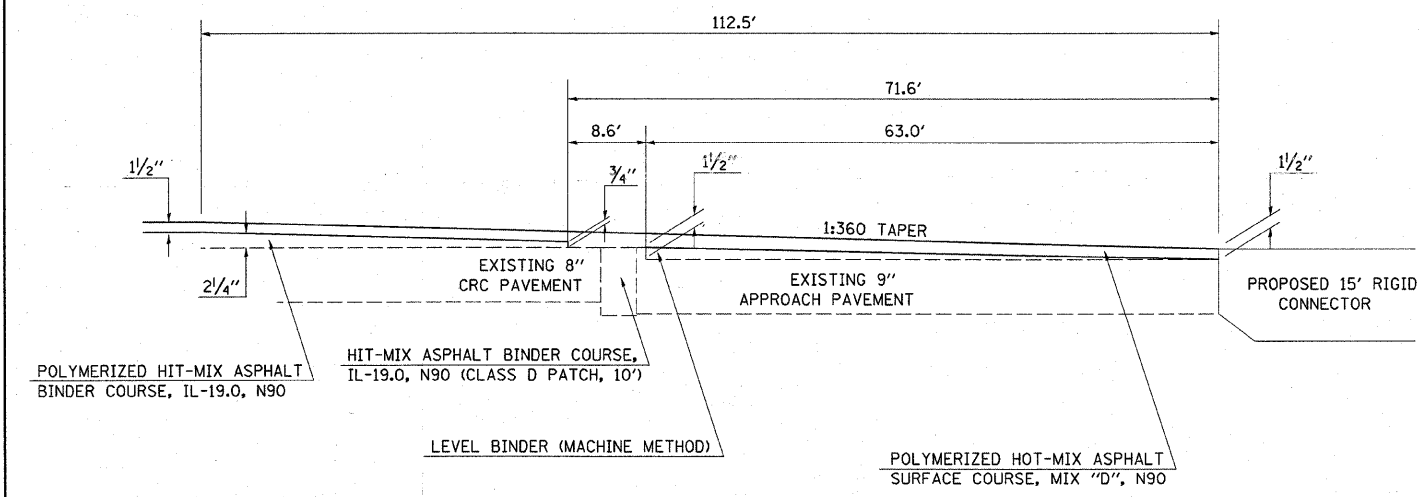
SN 058-0098/0099



NOTE: DETAIL NOT DRAWN TO SCALE

BUTT JOINT DETAIL

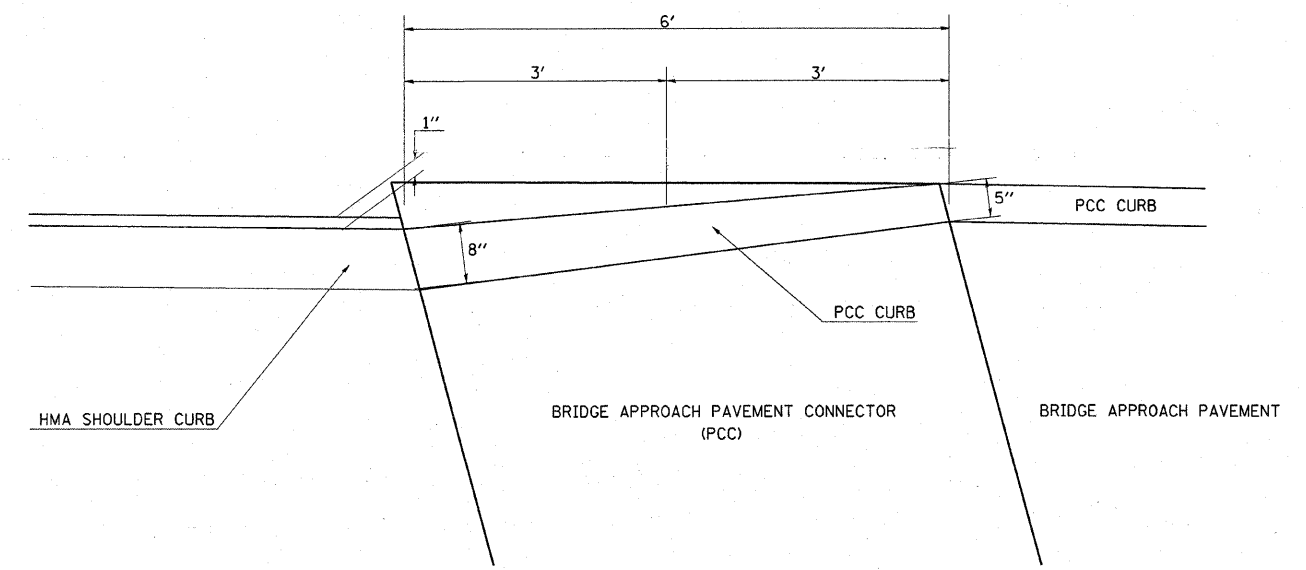
AT RIGID APPROACH CONNECTOR FOR STRUCTURES:
058-0101/0102, 0109/0108 (NB & SB)



NOTE: DETAIL NOT DRAWN TO SCALE

BRIDGE APPROACH PAVEMENT CONNECTOR CURB

(PCC)



NOTE: DETAIL NOT DRAWN TO SCALE

FILE NAME =	USER NAME = swartzrw	DESIGNED -	REVISED -
c:\pwwork\pwwork\swartzrw\d0138928\077150-detail1.svdgn		DRAWN -	REVISED -
PLOT SCALE = 28.0000 / IN.		CHECKED -	REVISED -
PLOT DATE = 3/17/2018		DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

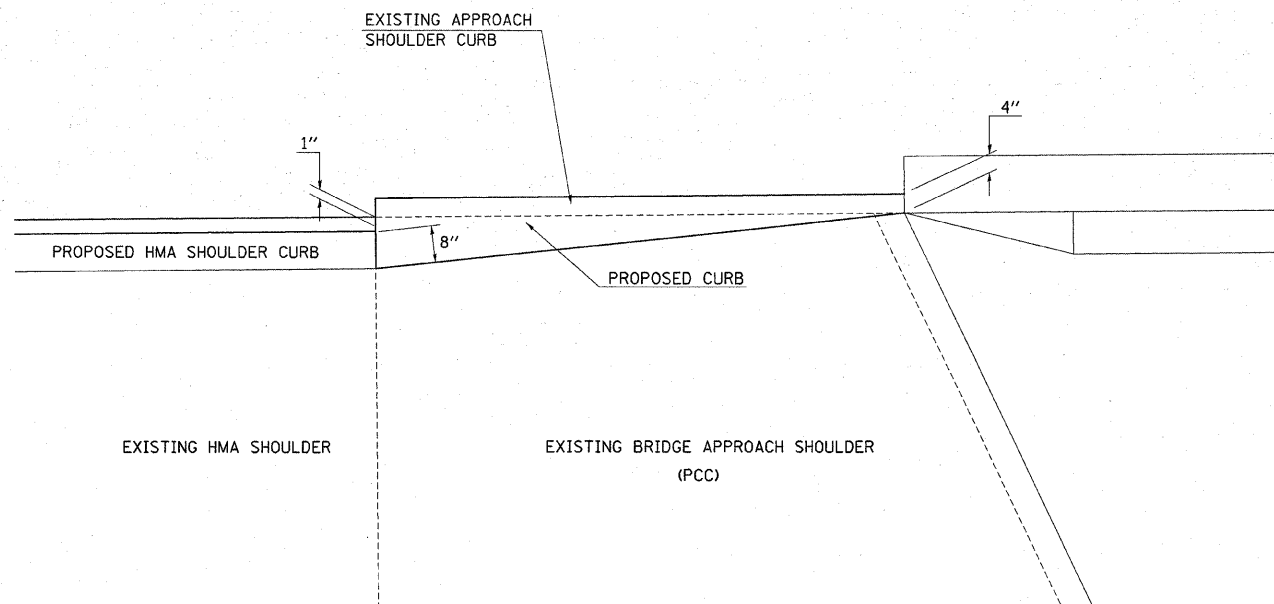
DISTRICT DETAILS

SCALE: NA SHEET NO. 2 OF 6 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
322	(58-20)RS	MACON	151	139
CONTRACT NO. 74150				
ILLINOIS FED. AID PROJECT				

CURB REMOVAL AND REPLACEMENT

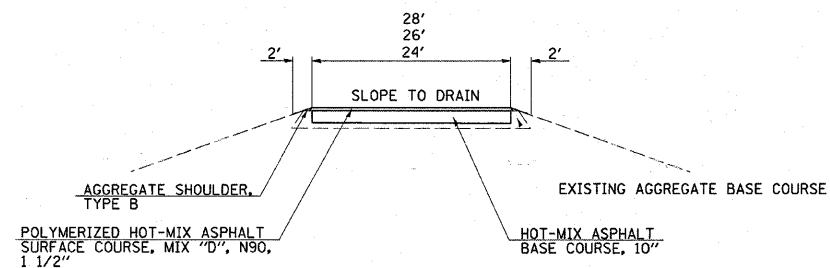
S.N. 058-0104 AND 058-0105
APPROACH SHOULDER PAVEMENT



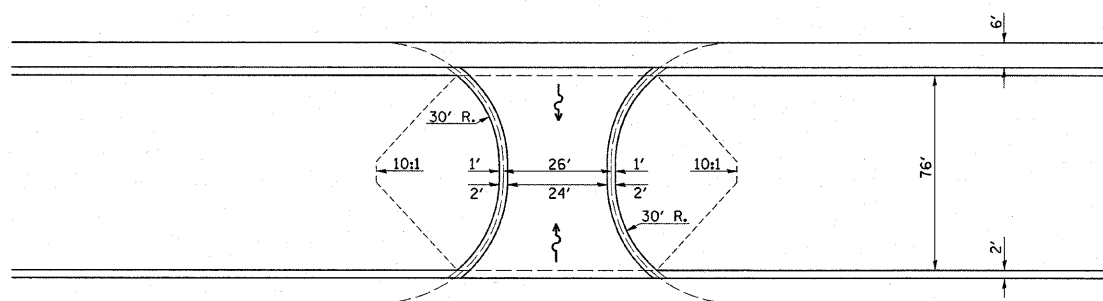
NOTE: DETAIL NOT DRAWN TO SCALE

DETAIL OF MEDIAN CROSSOVER TO BE RECONSTRUCTED

STA. 162 + 34
STA. 268 + 70
STA. 331 + 45

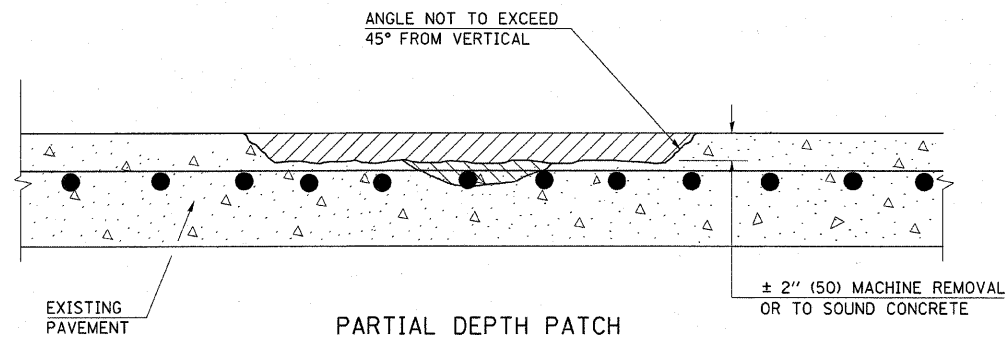
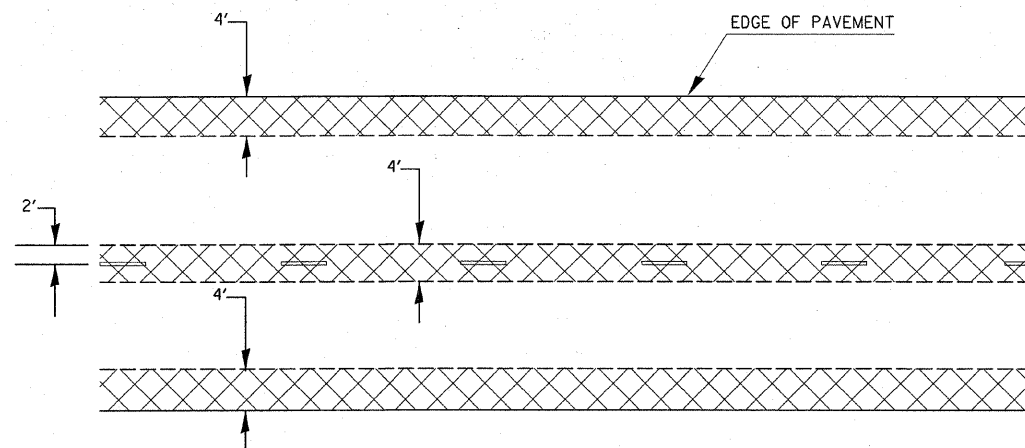


ELEVATION



PLAN

PARTIAL DEPTH PATCHING FOR BARE P.C.C. PAVEMENT

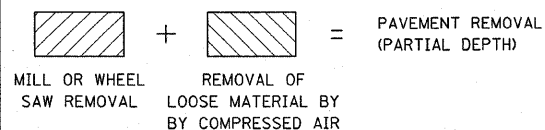


SEQUENCE OF CONSTRUCTION

1. INSPECT PAVEMENT TO DETERMINE IF A FULL OR PARTIAL DEPTH PATCH IS REQUIRED.
2. REMOVE AND REPLACE FULL DEPTH OR PARTIAL DEPTH PATCH.

GENERAL NOTES

1. THE WORK REQUIRED TO PERFORM A PARTIAL DEPTH PATCH SHALL BE PAID FOR AS SPECIFIED IN THE SPECIAL PROVISION ENTITLED "PAVEMENT PATCHING (PARTIAL DEPTH)".



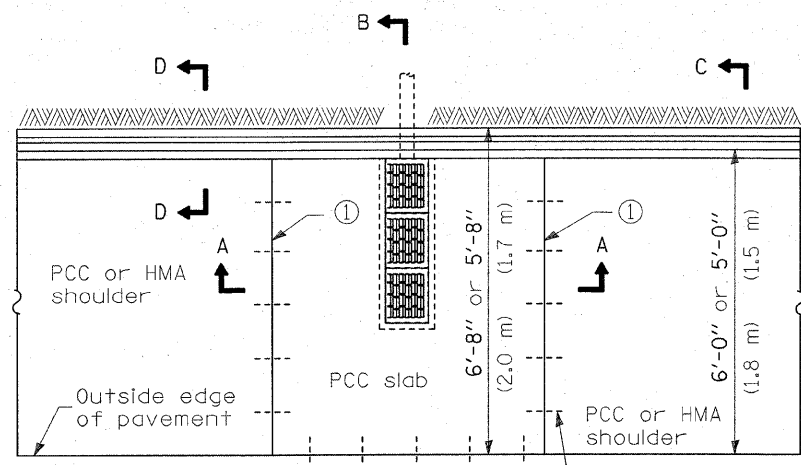
ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

FILE NAME =	USER NAME = swartzw	DESIGNED -	REVISED -
c:\pw_work\p\dot\swartzw\d0138928\0774150-details.dgn		DRAWN -	REVISED -
PLOT SCALE = 20.0000' / IN.		CHECKED -	REVISED -
PLOT DATE = 3/17/2010		DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT DETAILS

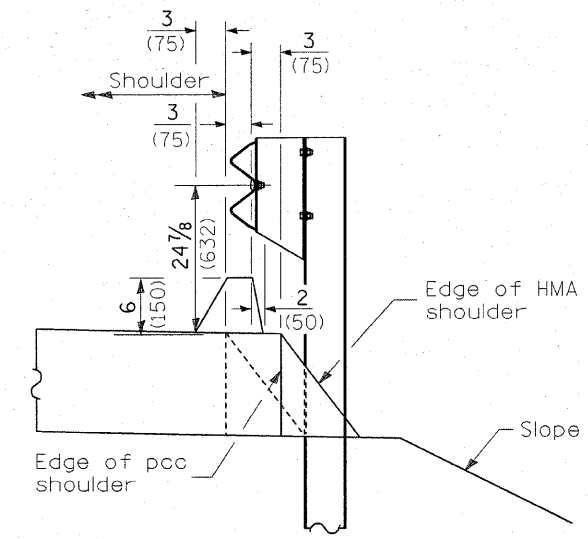
F.A.P. RTE. 322	SECTION 058-20IRS	COUNTY MACON	TOTAL SHEETS 151	SHEET NO. 140
SCALE: NA	SHEET NO. 3 OF 6 SHEETS	STA. TO STA.	CONTRACT NO. 74150	
ILLINOIS FED. AID PROJECT				



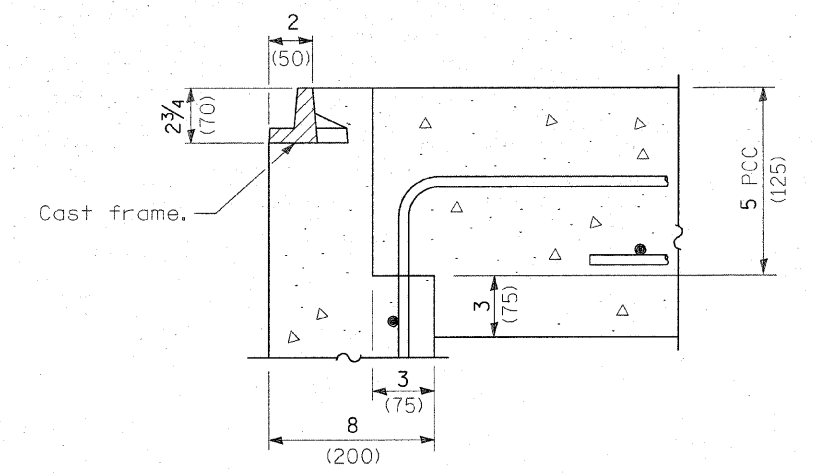
① Joints in prolongation with existing joints in pavements.

No. 6 (No. 19) Tie bars or expansion anchor ties at 24 (600) cts.

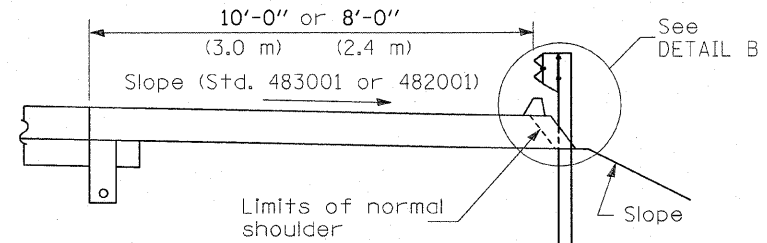
PLAN



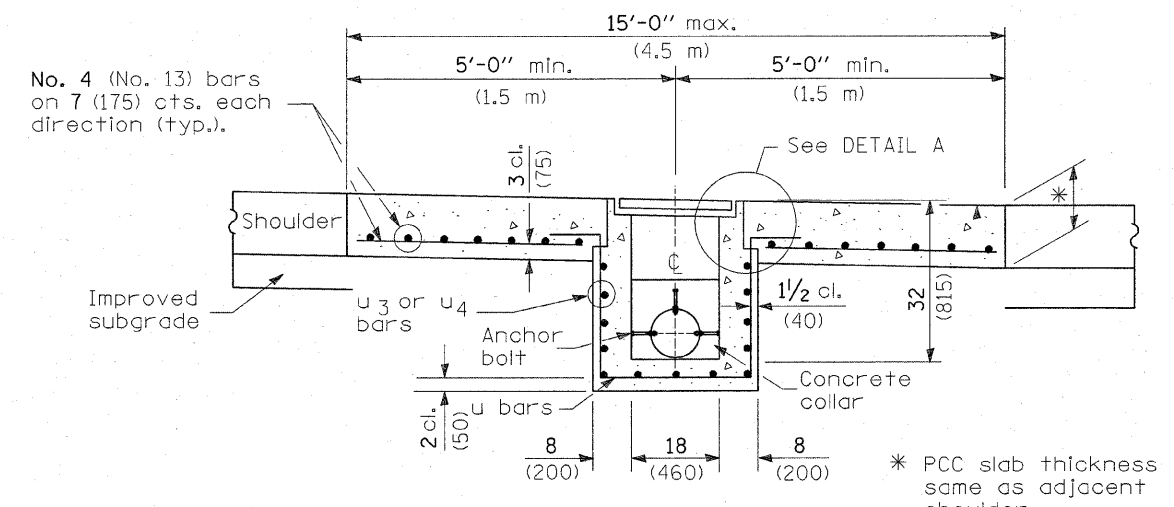
DETAIL B



DETAIL A



SECTION C-C



SEC. A-A

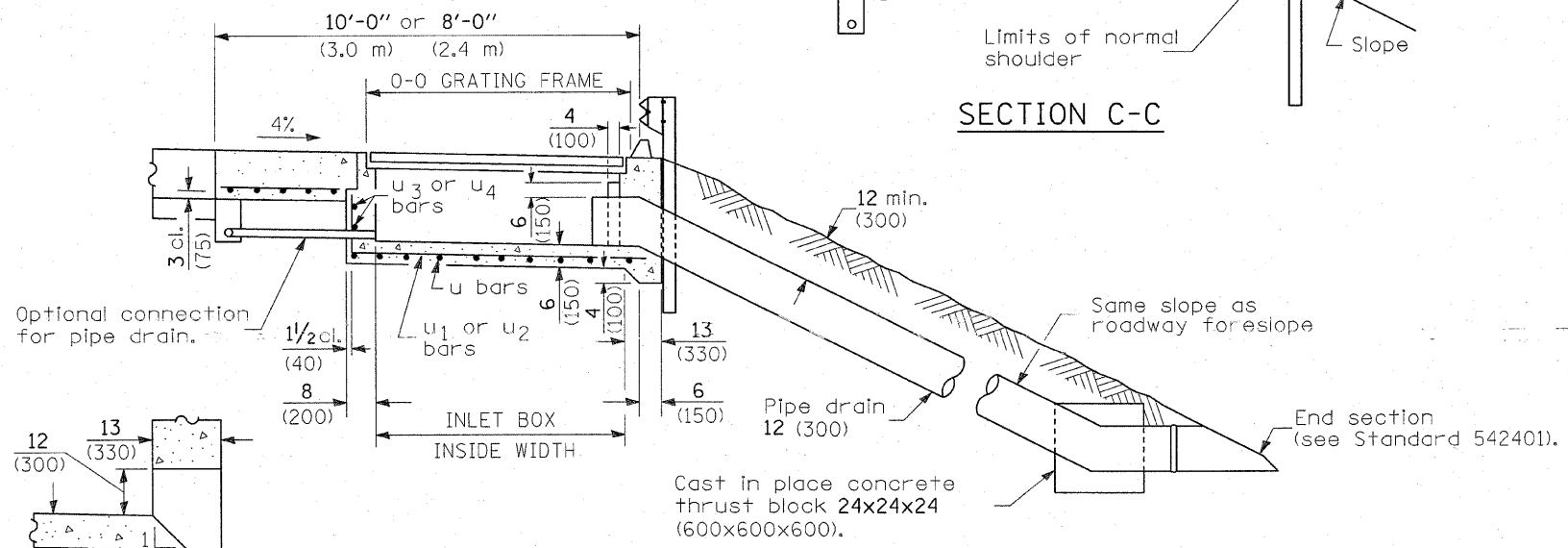
GENERAL NOTES

See Standard 420001 for joint details not shown.

All exposed edges of the inlet, except the upper perimeter, shall be beveled 3/4 (20).

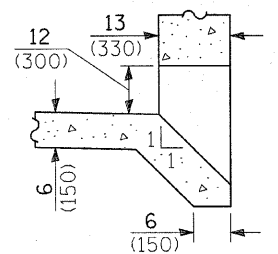
For placement of drainage elements on existing construction with existing rigid pavement, substitute expansion anchor ties for tie bars. For nonrigid pavements or monolithic construction of pcc slab and shoulder, omit tie bars.

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

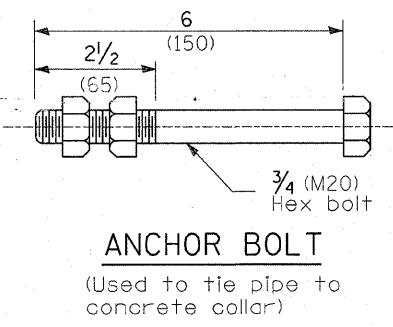


SEC. B-B

BOX OUTLET WHEN PRECAST

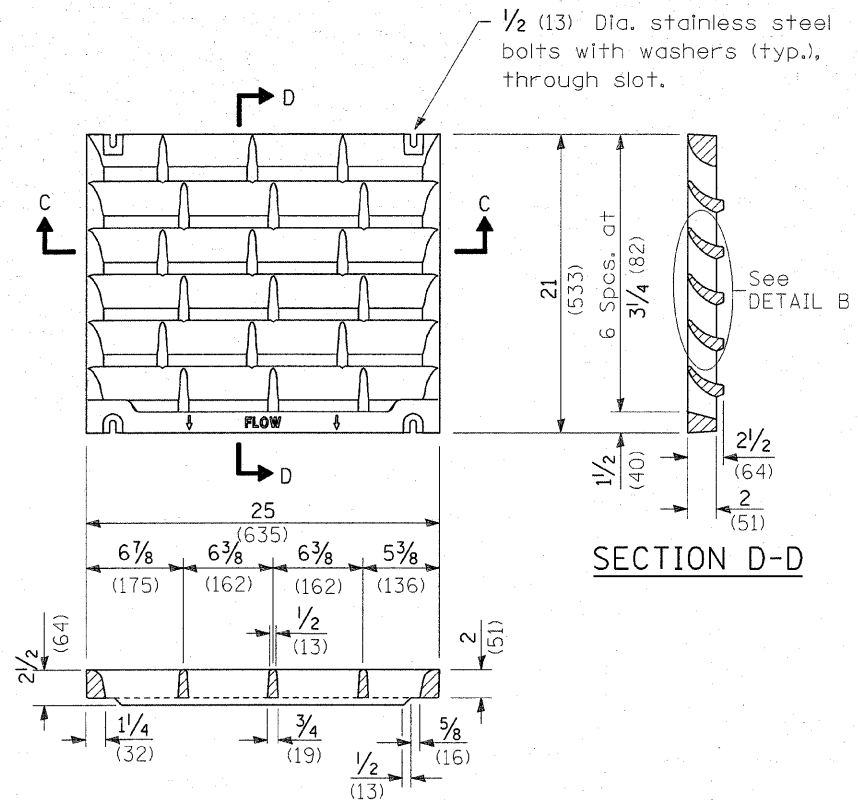


INLET TYPE	SHOULDER WIDTH	0-0 GRATING FRAME	INLET BOX INSIDE WIDTH	INLET BOX INSIDE LENGTH
Type C	5' TO 6' (1.5 m TO 1.8m))	4'-4" (1.325 m)	3'-11" (1.195 m)	18 (460)



ANCHOR BOLT
(Used to tie pipe to concrete collar)

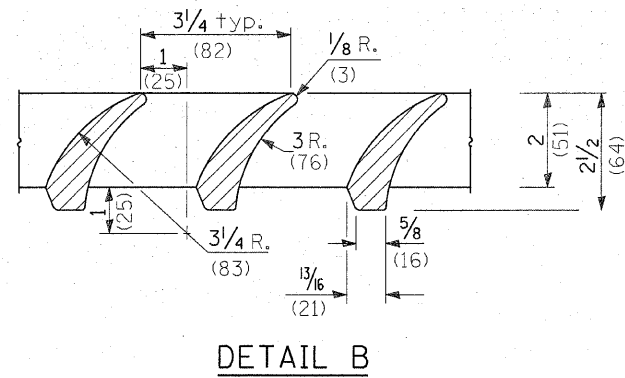
DETAIL INLETS, SPECIAL, TYPE C



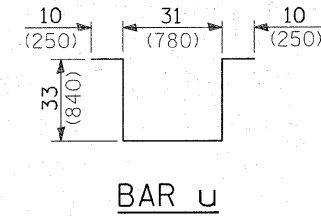
SECTION C-C

DETAIL OF CAST GRATE

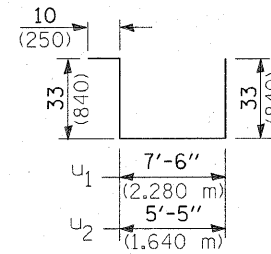
Type B requires 1 grate
 Type C requires 2 grates
 Type D requires 3 grates



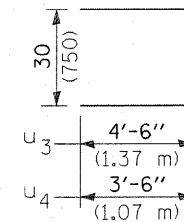
DETAIL B



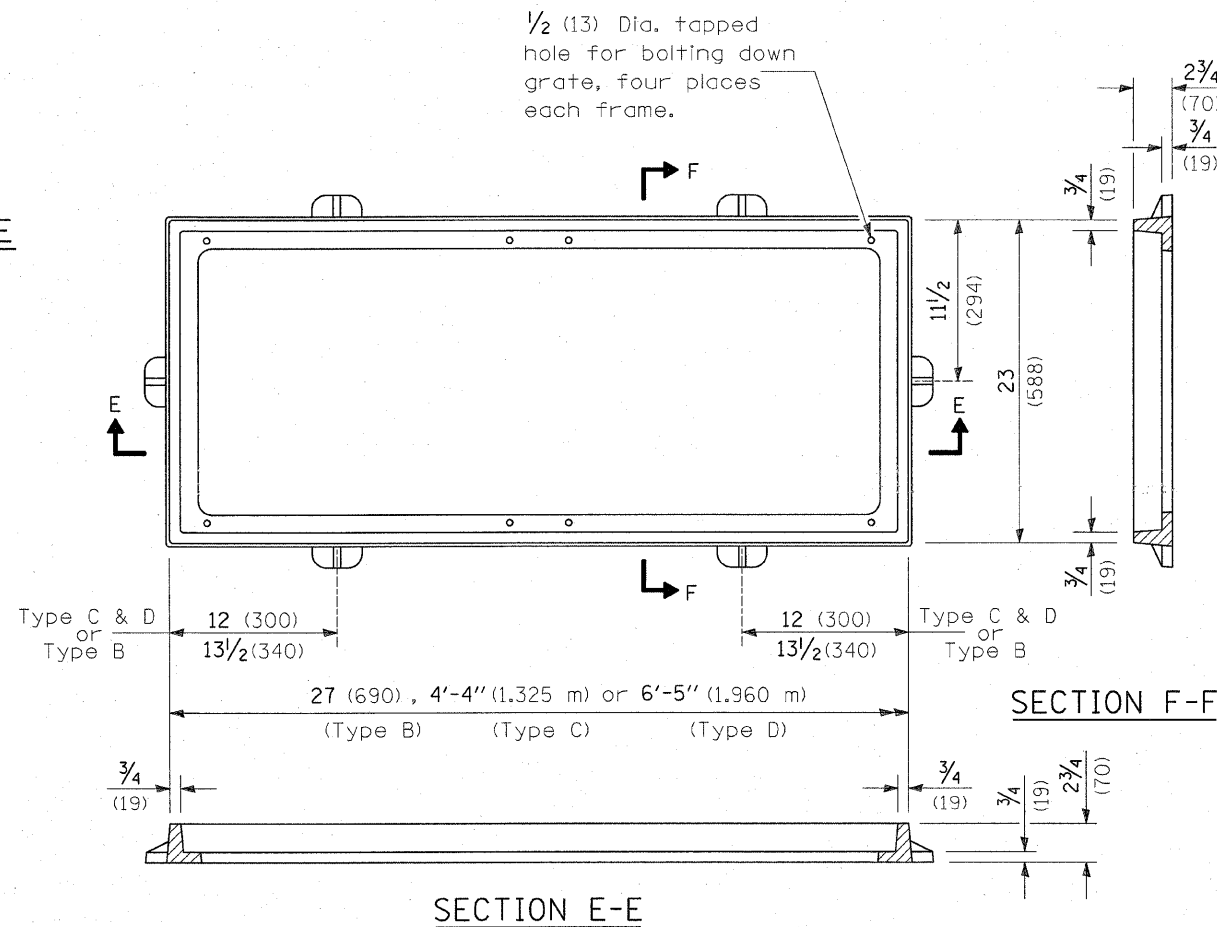
BAR U



BARS U₁, U₂



BARS U₃, U₄



SECTION E-E

SECTION F-F

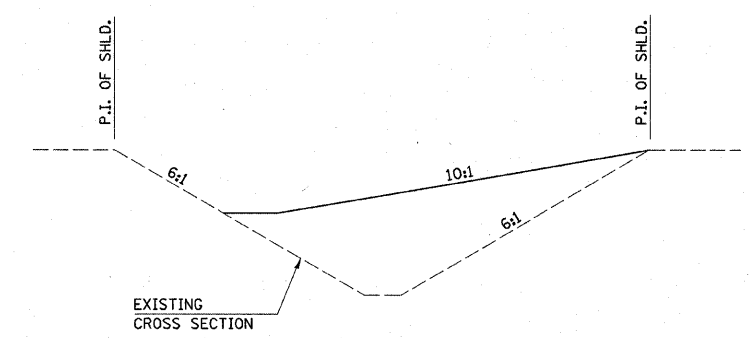
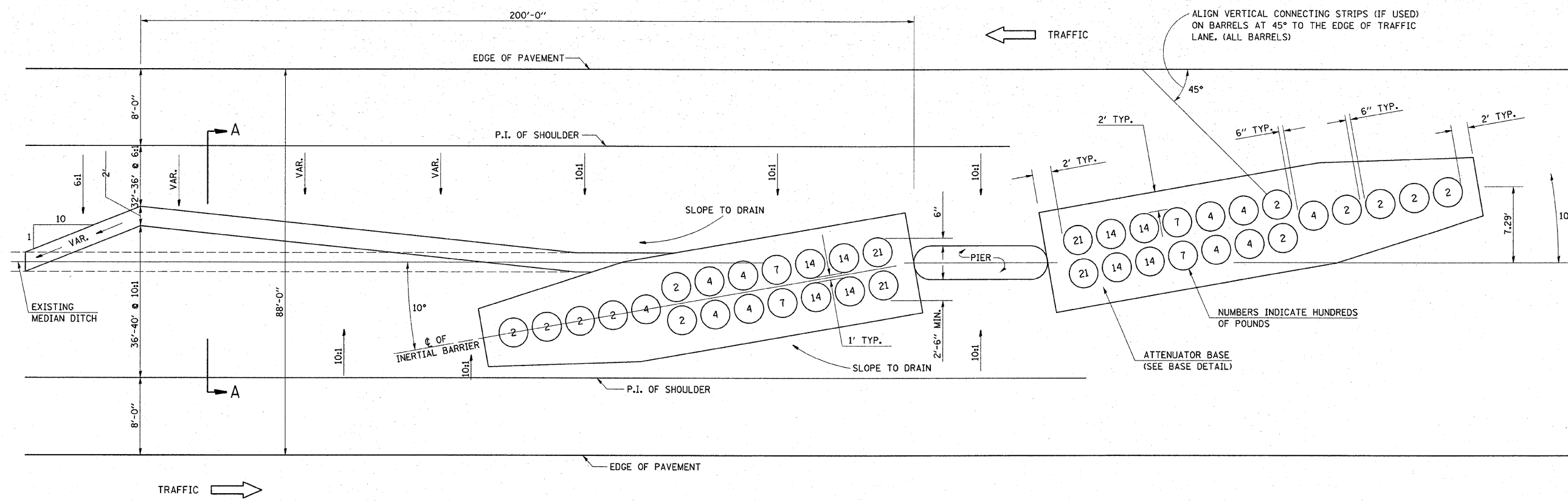
DETAIL OF CAST FRAME
 (Type C shown)

INLET BOX

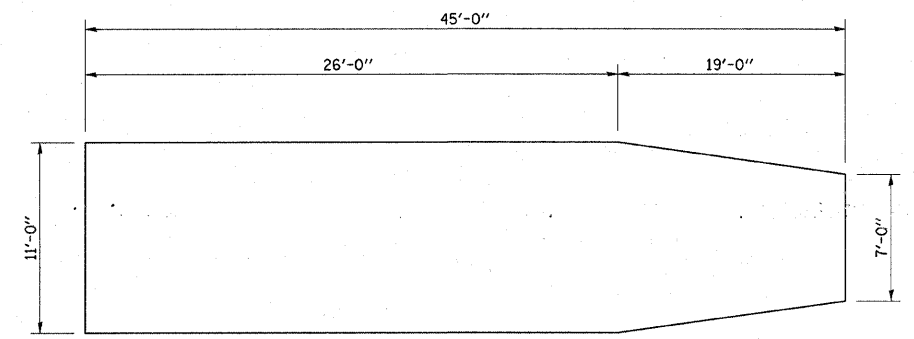
TYPE C

Bar	Qty.	Size	Length
u	6	No. 4 (No. 13)	9'-9" (2.96 m)
u ₂	3	No. 4 (No. 13)	11'-9" (3.57 m)
u ₄	6	No. 4 (No. 13)	9'-6" (2.89 m)
Concrete		cu. yds. (m ³)	1.3 (1.0)
Reinf. bars		lbs. (kg)	101 (45.8)
Grating		sq. ft. (m ²)	7.3 (0.68)

DETAIL
 INLETS, SPECIAL,
 TYPE C



SECTION A-A
GRADING AND SHAPING DETAIL



BASE DETAIL

GENERAL NOTES

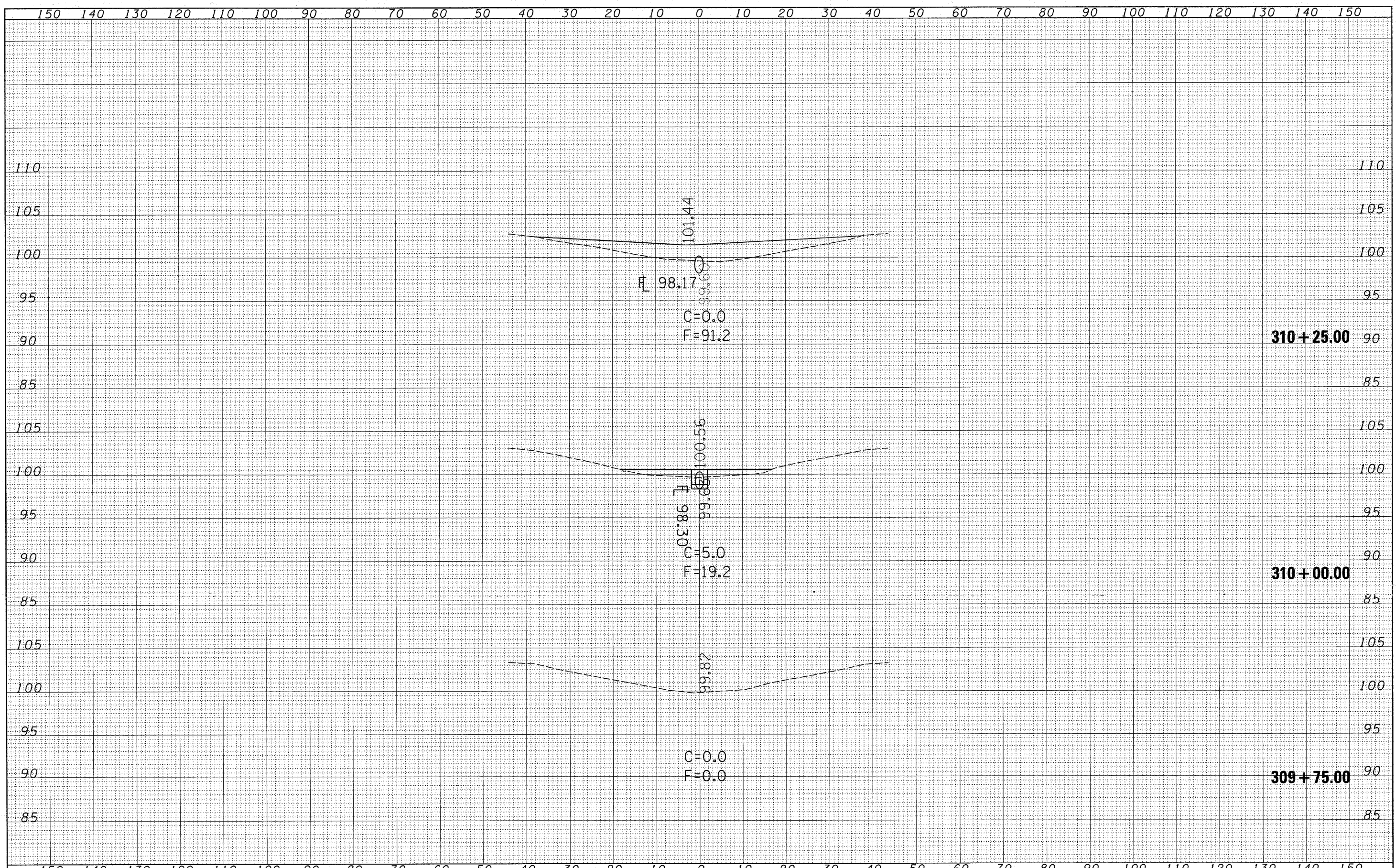
1. ALL 10:1 SLOPES SHOWN ON THIS DETAIL SHALL BE CONSTRUCTED 10:1 OR FLATTER.
2. THE SLOPES AS SHOWN ON THIS DETAIL SHALL APPLY TO BOTH ENDS OF THE BRIDGE PIERS.
3. THE LENGTH X WIDTH OF MODULE LAYOUT IS 41.0' X 7.0': 19 MODULES - 14,400 LBS.
4. IN AREAS OF 10:1 SLOPES PRECEDING THE ATTENUATOR IN THE MEDIAN INSTALLATION, FOUR OR MORE WOOD POSTS SHALL BE PLACED AT 5' INTERVALS IN THE MEDIAN ϕ . SEE SPECIAL PROVISIONS AND SCHEDULES.

NOT TO SCALE
Note: All dimensions are in INCHES (millimeters) unless otherwise shown.

FILE NAME =	USER NAME = swartzrw	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DETAIL OF IMPACT ATTENUATORS (NON-REDIRECTIVE) TEST LEVEL 3 88' MEDIAN		F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
cd:\pw_work\pwt\dot\swartzrw\d0138928\0774158-details.dgn		DRAWN -	REVISED -				322	(58-20IRS)	MACON	151	143
PLOT SCALE = 20.0000' / IN.		CHECKED -	REVISED -				CONTRACT NO. 74150				
PLOT DATE = 3/17/2010		DATE -	REVISED -				ILLINOIS FED. AID PROJECT				

DATE _____
 BY _____
 SURVEYED _____
 PLOTTED _____
 FINISH _____
 CHECKED _____
 AREAS CHECKED _____

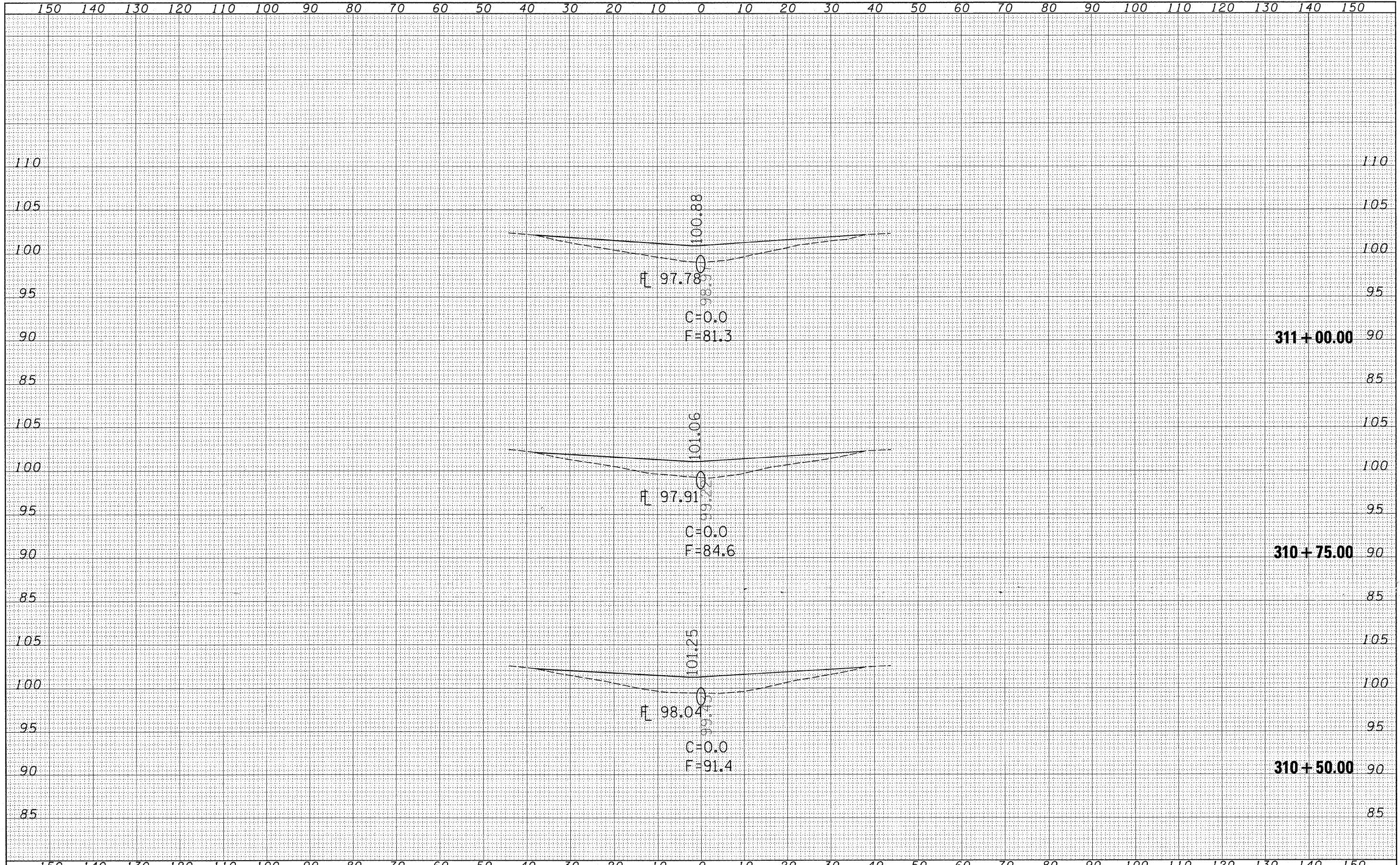
DATE _____
 BY _____
 ORIGINAL SURVEY _____
 PLOTTED _____
 FINISH _____
 CHECKED _____
 AREAS CHECKED _____



FILE NAME =	USER NAME = swartzw	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION				STATION CROSS SECTIONS				F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
ca:\pwork\pwork\DOT\SWARTZRW\0138926\0774150-sh	t:ksht.dgn	DRAWN -	REVISED -									322	(58,20)RS	MACON	151	144
PLOT SCALE = 10.0000' / IN.	CHECKED -	REVISED -	REVISED -	SCALE: 10				SHEET NO. 1 OF 8 SHEETS		STA. 309+75.00 TO STA. 310+25.00		CONTRACT NO. 74150				
PLOT DATE = 3/17/2018	DATE -	REVISED -	REVISED -	ILLINOIS FED. AID PROJECT												

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

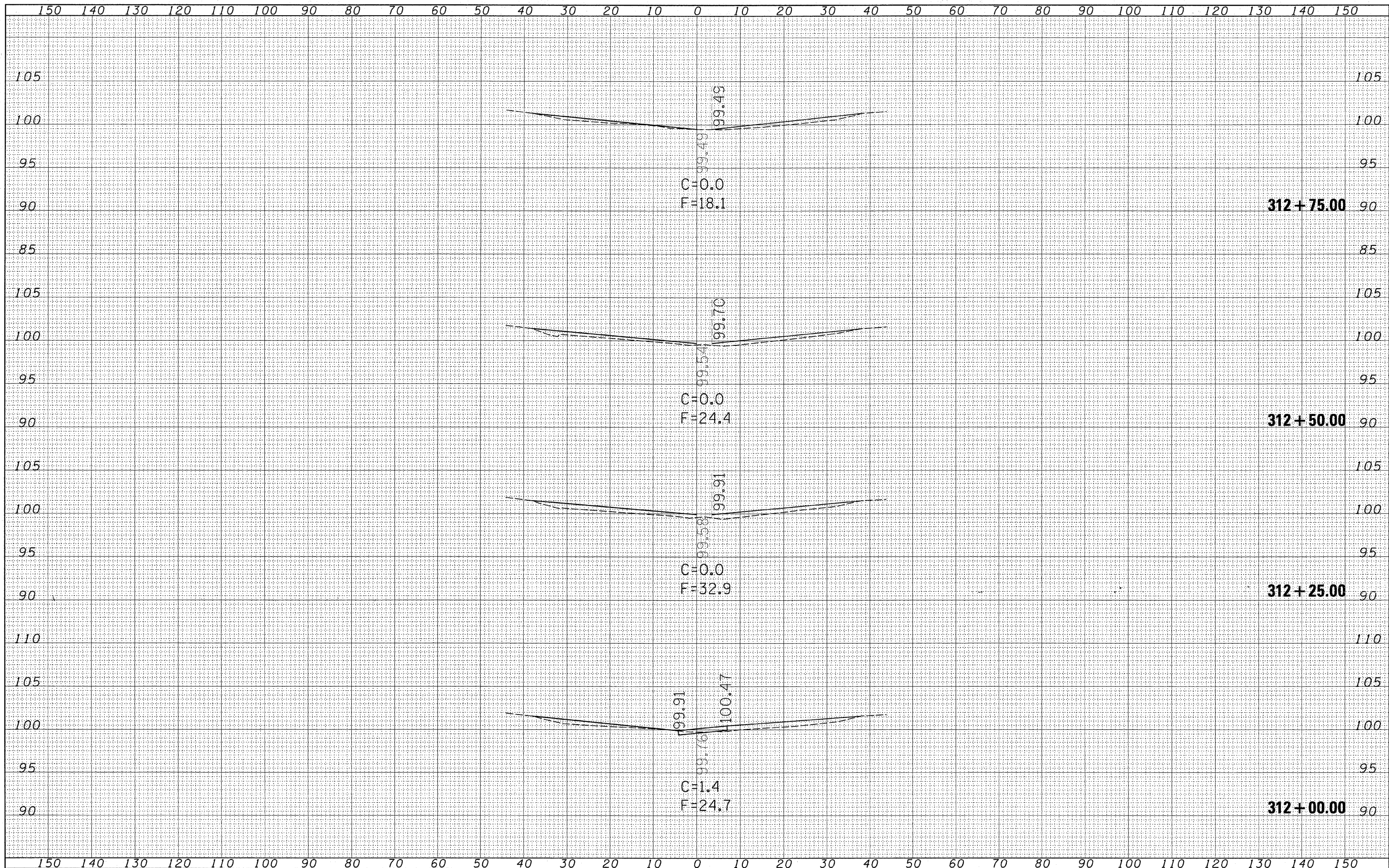
DATE	
BY	
ORIGINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
NO.	TEMPLATE
	AREAS
	CHECKED



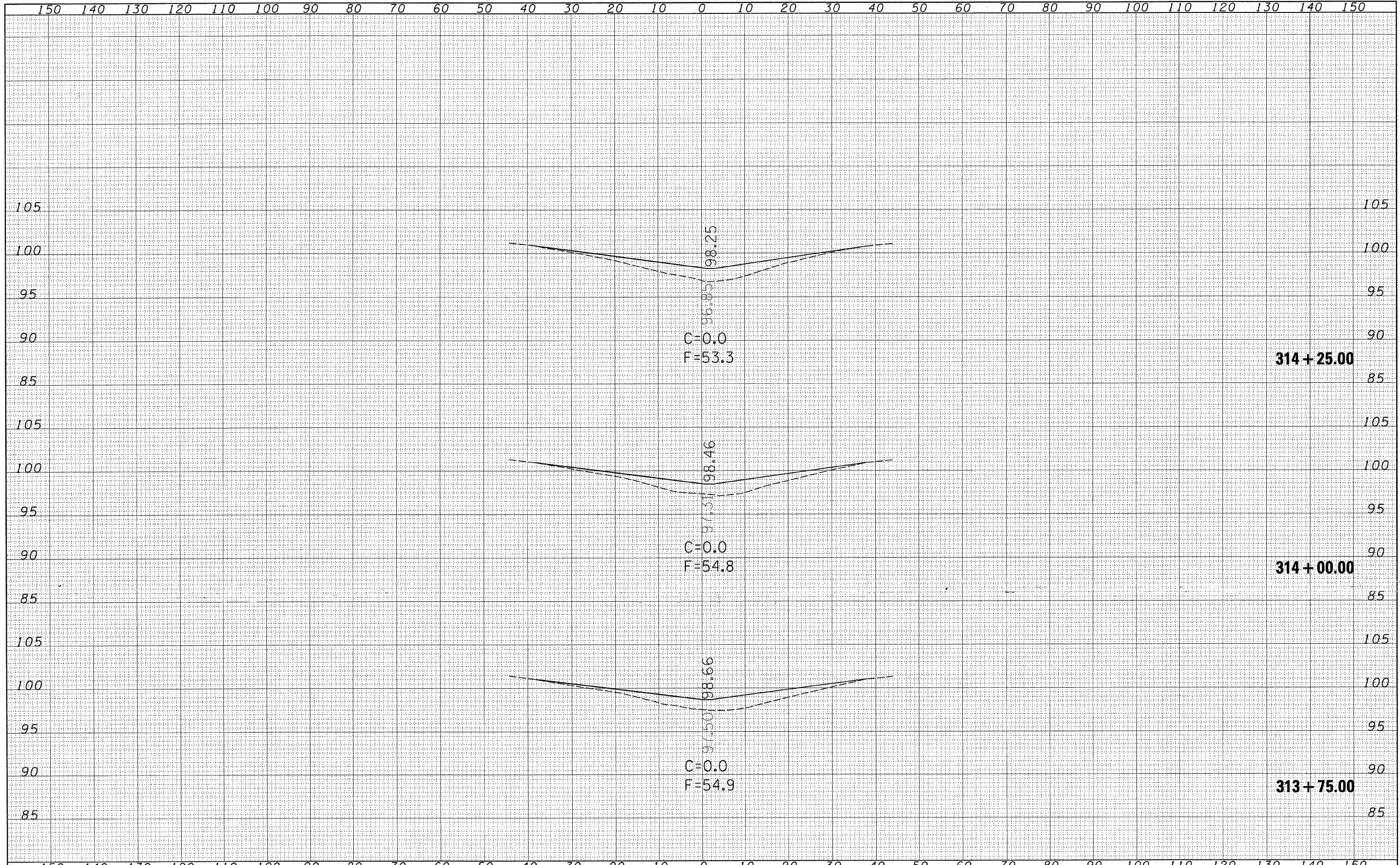
FILE NAME =	USER NAME = swartzrw	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION				STATION CROSS SECTIONS				F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
ca:\pw_work\PIWIDOT\SWARTZRW\d0138928\0774150-st	t-ssht.dgn	DRAWN -	REVISED -					SCALE: 10	SHEET NO. 2 OF 8 SHEETS	STA. 310+50.00 TO STA. 311+00.00	322	(58,20)RS	MACON	151	145	
PLOT SCALE = 10.0000' / IN.	CHECKED -	REVISED -	REVISED -					CONTRACT NO. 74150				ILLINOIS FED. AID PROJECT				
PLOT DATE = 3/17/2010	DATE -	REVISED -	REVISED -													

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

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



FILE NAME =	USER NAME = swartzr	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION				STATION CROSS SECTIONS				F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
ai:\pw\work\PW100T\SWARTZRW\08138928\0774158-sht-xssht.dgn		DRAWN -	REVISED -					SCALE: 10	SHEET NO. 4 OF 8 SHEETS	STA. 312+00.00 TO STA. 312+75.00	322	158,201RS	MACON	151	147	
PLOT SCALE = 10.0000' / IN.		CHECKED -	REVISED -					CONTRACT NO. 74150				ILLINOIS FED. AID PROJECT				
PLOT DATE = 3/17/2018		DATE -	REVISED -													

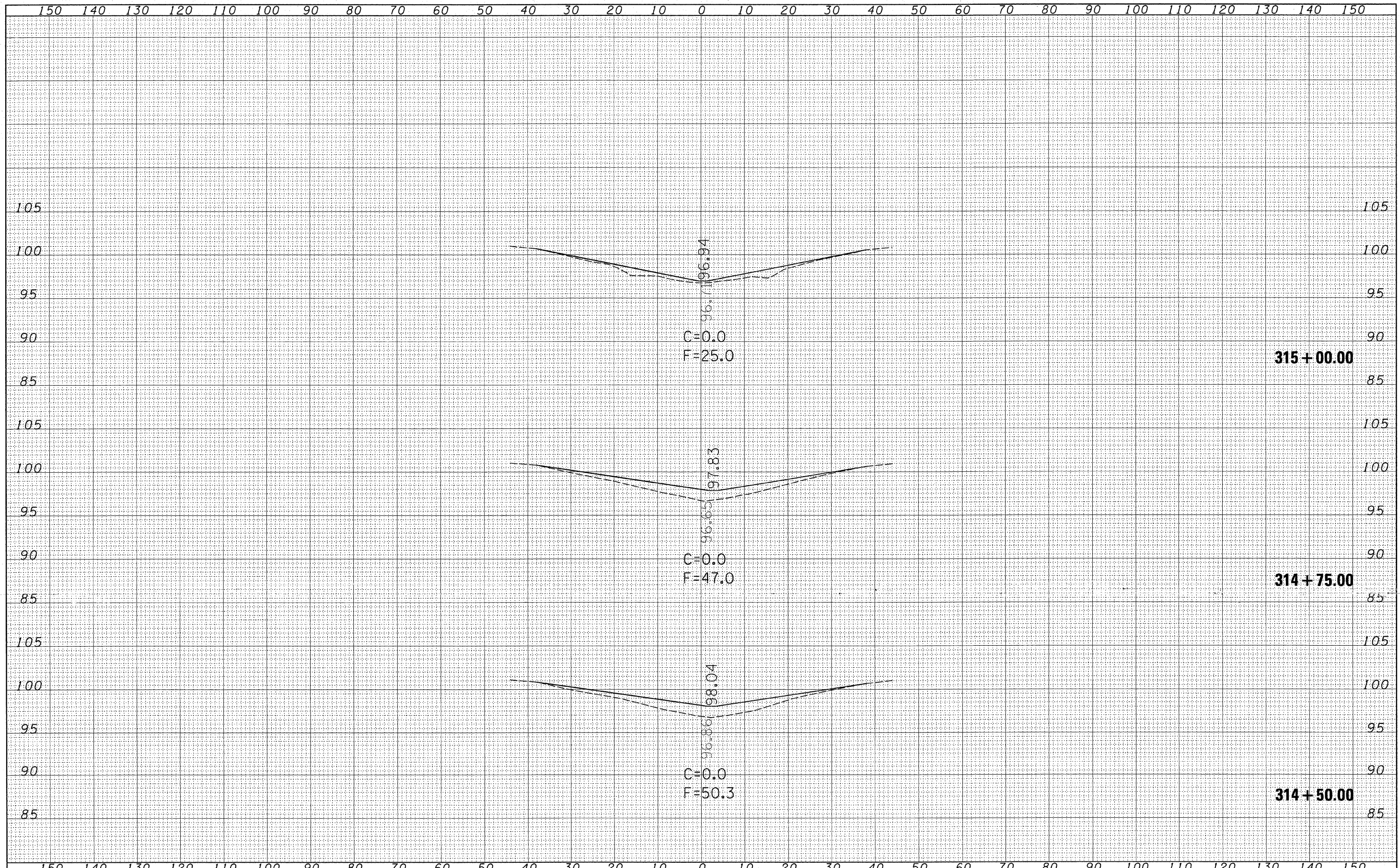


BY	DATE
FINAL SURVEY	SURVEYED
NOTE BOOK	FLOTTED
NO.	TEMPLATE
	AREAS CHECKED

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

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

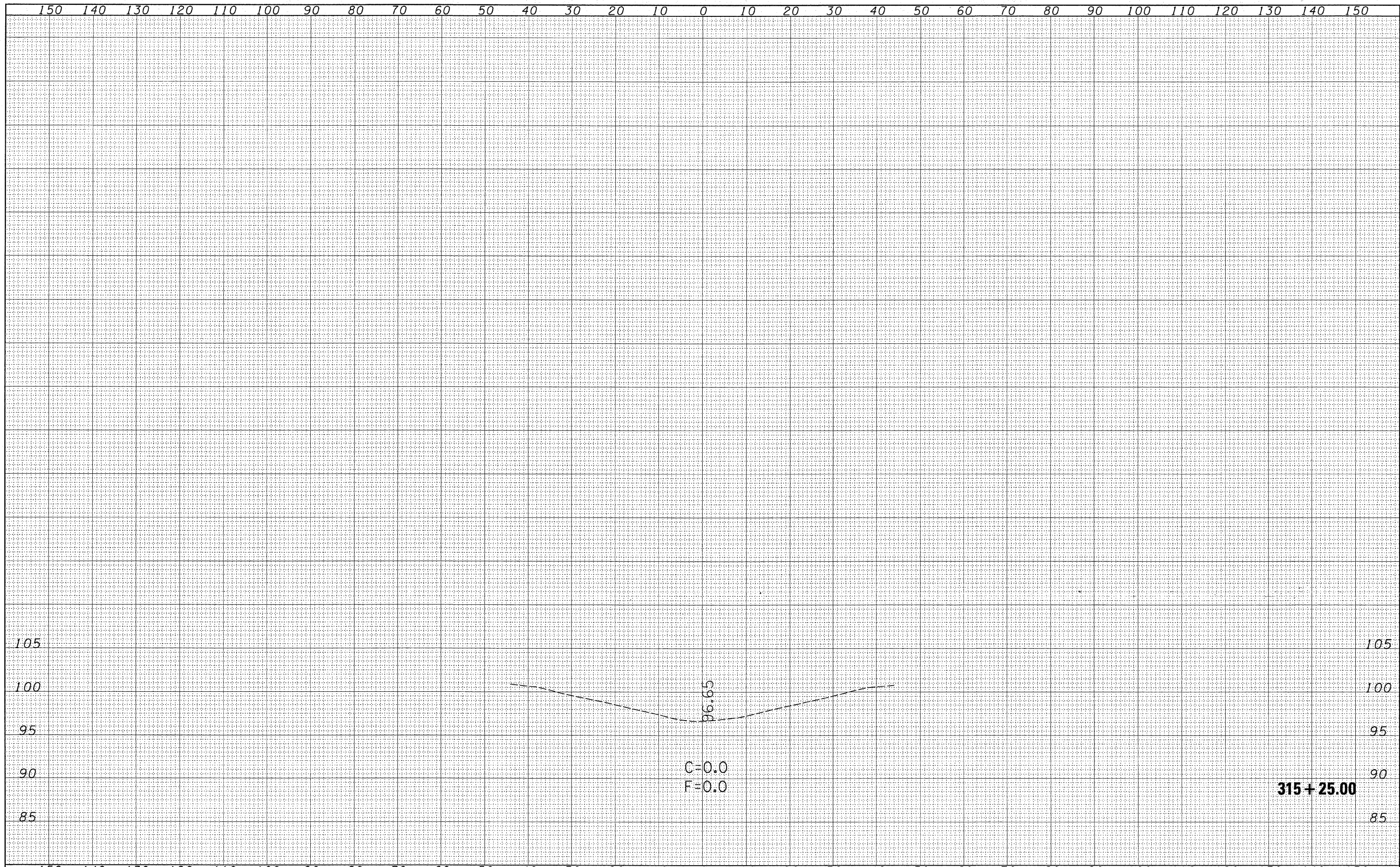
ORIGINAL SURVEY	SKETCHED	BY	DATE
NOTE BOOK NO.	PLOTTED		
	TEMPLATE		
	AREAS CHECKED		



FILE NAME =	USER NAME = swartzrw	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	STATION CROSS SECTIONS				F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
ca:\pwork\pwork\DOT\SWARTZRW\d0138928\0774150-1\st-xsh.txd		DRAWN -	REVISED -		322	(58,20)RS	MACON	151	150				
PLOT SCALE = 10.0000' / IN.		CHECKED -	REVISED -		CONTRACT NO. 74150								
PLOT DATE = 3/17/2018		DATE -	REVISED -		ILLINOIS FED. AID PROJECT								
				SCALE: 10	SHEET NO. 7 OF 8 SHEETS	STA. 314+50.00 TO STA. 315+00.00							

FINAL SURVEY NO.	SURVEYED PLOTTED TEMPLATE AREAS CHECKED	BY	DATE

ORIGINAL SURVEY NO.	SURVEYED PLOTTED TEMPLATE AREAS CHECKED	BY	DATE



FILE NAME =	USER NAME = swartzw	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	STATION CROSS SECTIONS				F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
at:\pwwork\pwwidgt\swartzw\d0130928\0774158-s	t-xssht.dgn	DRAWN -	REVISED -		SCALE: 10	SHEET NO. 8	OF 8	SHEETS	322	(58,20)RS	MACON	151	151
	PLOT SCALE = 10.0000' / IN.	CHECKED -	REVISED -		STA. 315+25.00	TO STA. 315+25.00		ILLINOIS FED. AID PROJECT					
	PLOT DATE = 3/17/2010	DATE -	REVISED -		CONTRACT NO. 74150								