

CONTRACT NO. 72A37

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
72	(69-8VHB)I	MORGAN	10	1

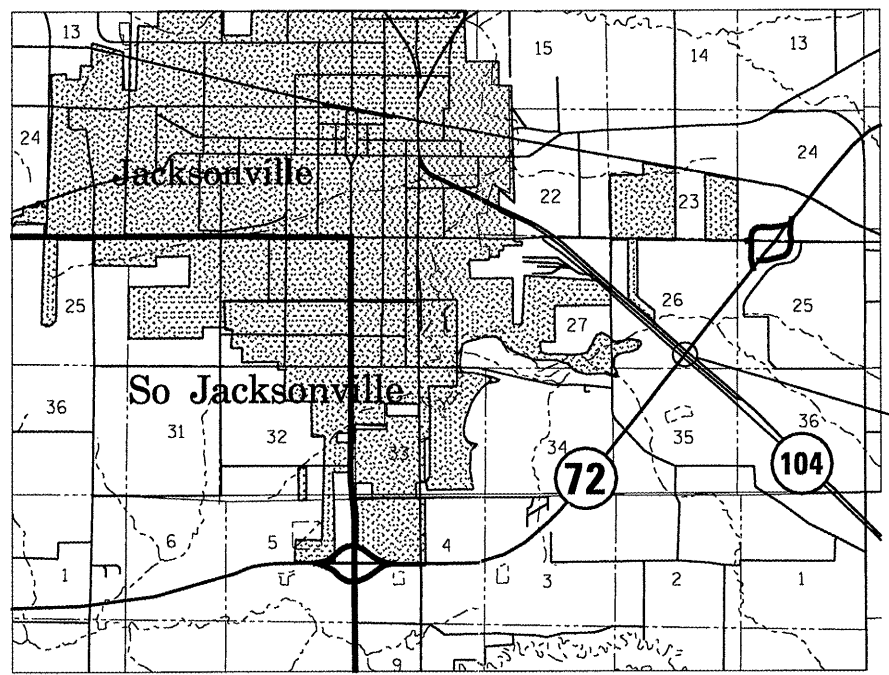
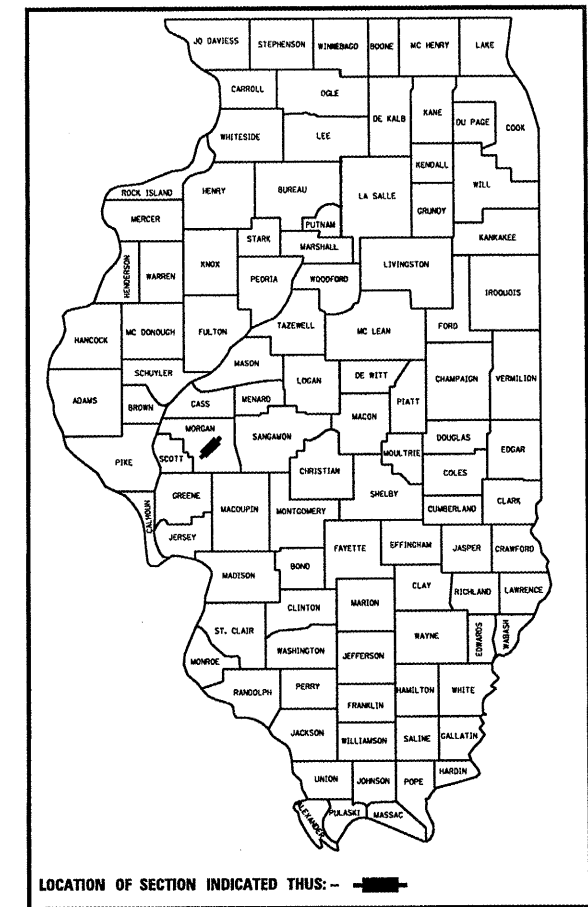
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

**PROPOSED
HIGHWAY PLANS**

FAI ROUTE 72 (I-72)
SECTION (69-8VHB)I
PROJECT C-96-002-07
MORGAN COUNTY

FOR INDEX OF SHEETS, SEE SHEET NO. 2

D-96-014-06



SN 069-0041

NET LENGTH OF SECTION: 263' = 0.05 MI

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

CONTRACT NO. 72A37

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

SUBMITTED March 31, 2006
Chris M. Reed
DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER

May 12, 2006
Mike Hine
ENGINEER OF DESIGN AND ENVIRONMENT

May 12, 2006
Milton R. Sees P.E.
DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

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OF THE STATE OF ILLINOIS**

INDEX OF SHEETS

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- 8 BAR DRILLING LOCATION DETAILS
- 9 APPROACH SLAB CONCRETE DETAILS
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STANDARDS

- 701101-01
- 701106-01
- 701400-02
- 701402-05
- 701406-04
- 702001-06
- 704001-02

GENERAL NOTES:

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

EXISTING REINFORCEMENT 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 AND APPROVED BAR SPLICER OR ANCHORAGE SYSTEM. COST SHALL BE INCLUDED WITH CONCRETE REMOVAL.

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS DISTRICT 6
EXAMINED <u>March 17</u> 20 <u>06</u> <i>Soni A. Hosni</i> ENGINEER OF OPERATIONS
EXAMINED <u>March 21</u> 20 <u>06</u> <i>W.B. Tracy</i> ENGINEER OF PROGRAM IMPLEMENTATION
EXAMINED <u>MARCH 20</u> 20 <u>06</u> <i>William E. Martin</i> ENGINEER OF PROGRAM DEVELOPMENT

CONTRACT 72A37
INDEX OF SHEETS,
GENERAL NOTES,
& SIGNATURES

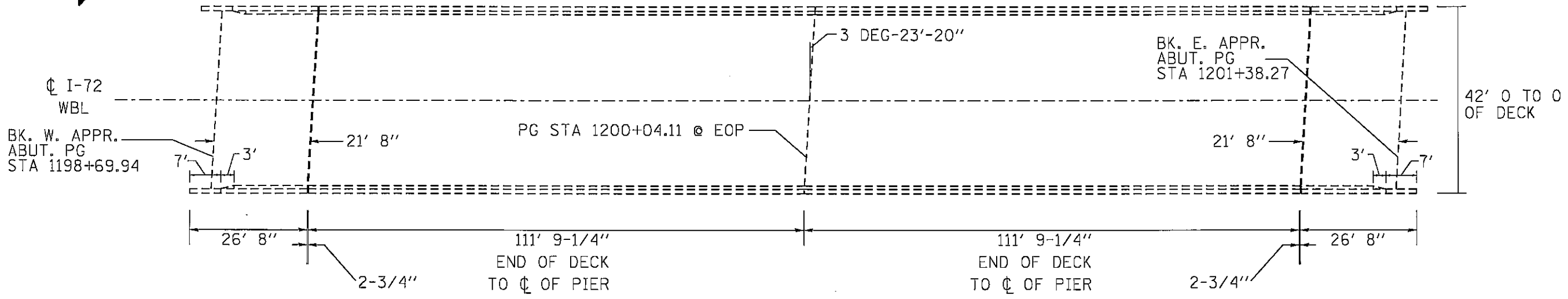
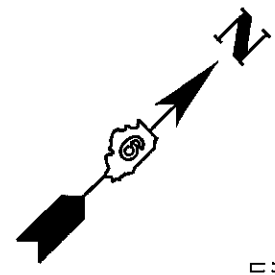
SUMMARY OF QUANTITIES

100% STATE

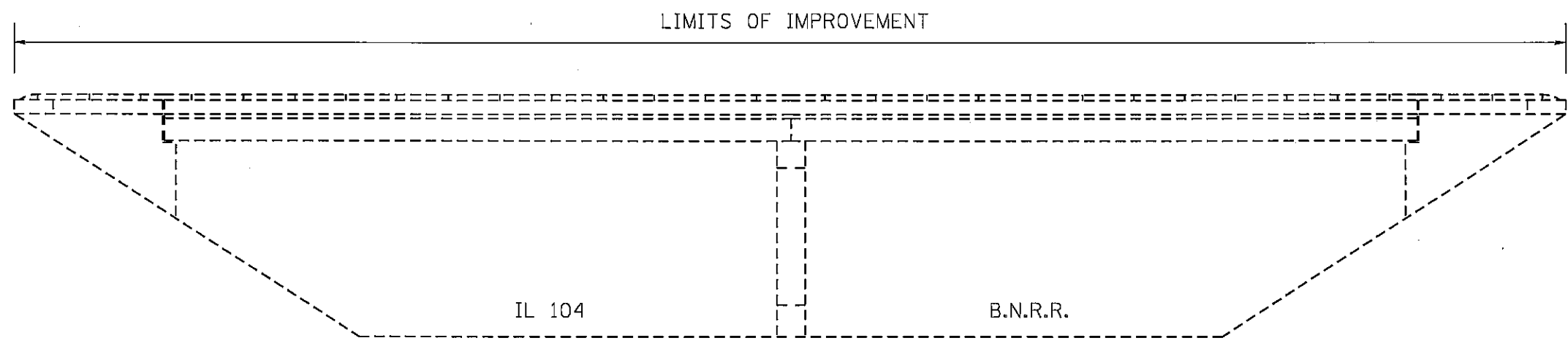
ITEM	DESCRIPTION	UNIT	QUANTITY	SFTY-2A MORGAN
50102400	CONCRETE REMOVAL	CU YD	54	54
50300255	CONCRETE SUPERSTRUCTURE	CU YD	65	65
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	10180	10180
67100100	MOBILIZATION	L SUM	1	1
70100700	TRAFFIC CONTROL AND PROTECTION, STANDARD 701406	L SUM	1	1
70100805	TRAFFIC CONTROL AND PROTECTION, STANDARD 701402	L SUM	1	1
70400100	TEMPORARY CONCRETE BARRIER	FOOT	450	450
70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	450	450
Δ Z0030250	IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE), TEST LEVEL 3	EACH	1	1
Δ Z0030350	IMPACT ATTENUATORS, RELOCATE (NON-REDIRECTIVE), TEST LEVEL 3	EACH	1	1
Z0047300	PROTECTIVE SHIELD	SQ YD	235	235
Z0048665	RAILROAD PROTECTIVE LIABILITY INSURANCE	L SUM	1	1

Δ SFTY-3H

CONTRACT 72A37
SUMMARY OF
QUANTITIES

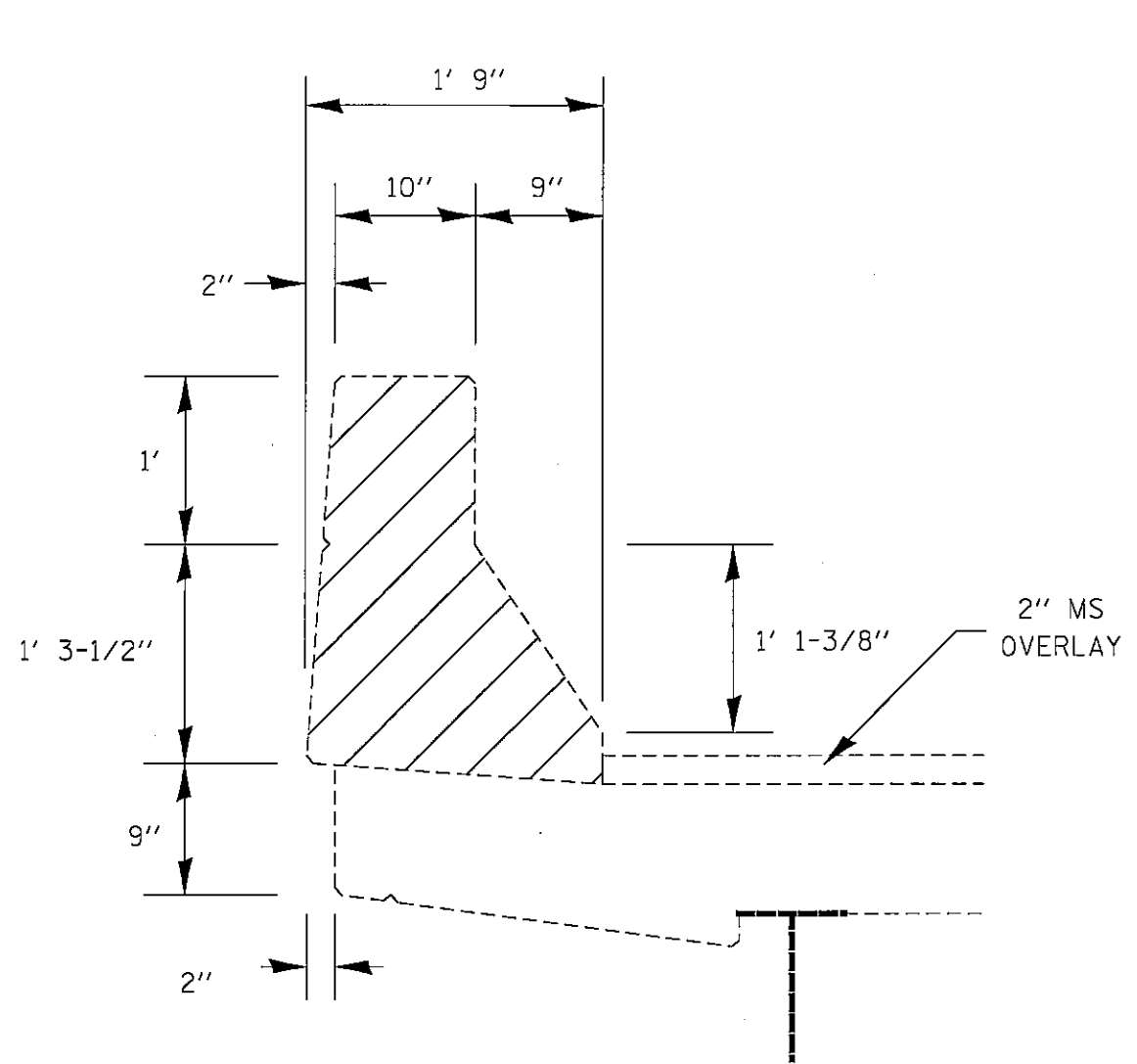


PLAN VIEW

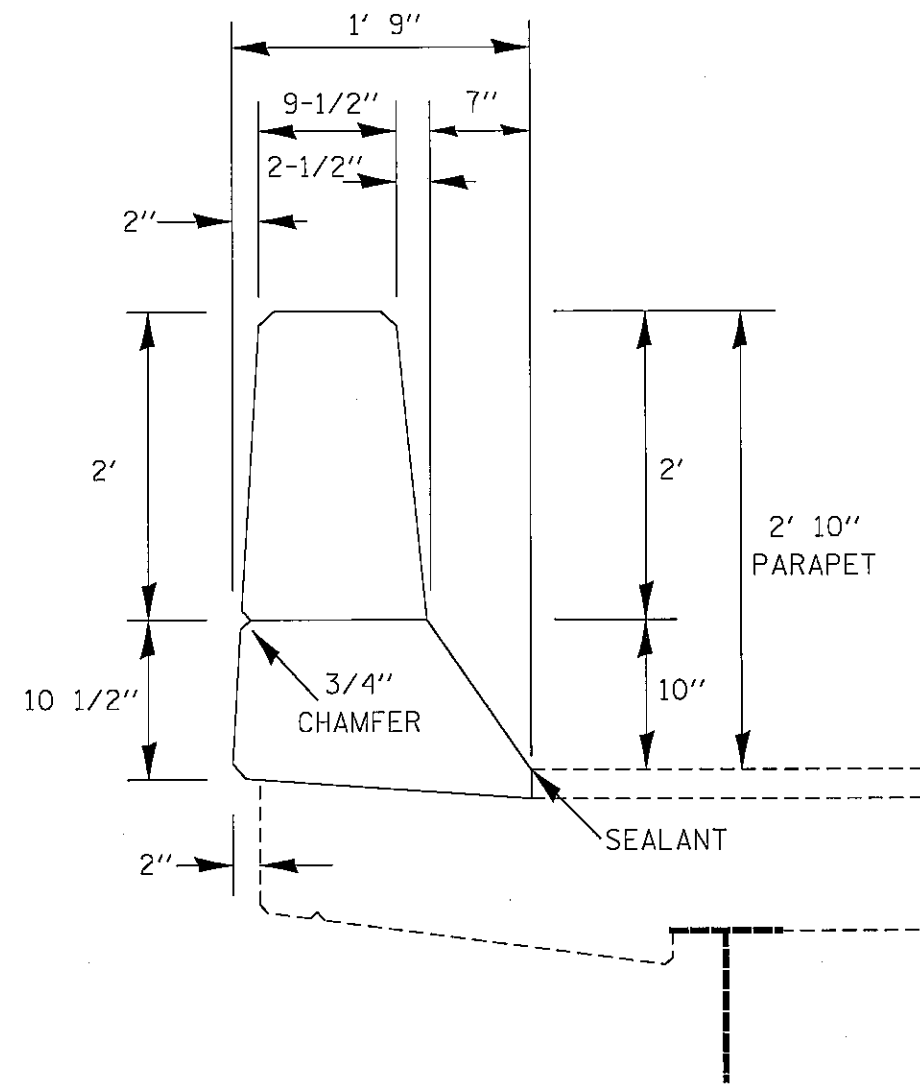


ELEVATION VIEW

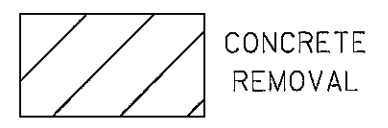
CONTRACT 72A37
EXISTING PLAN
& ELEVATION VIEWS
(NOT TO SCALE)



CONCRETE REMOVAL
CROSS SECTION



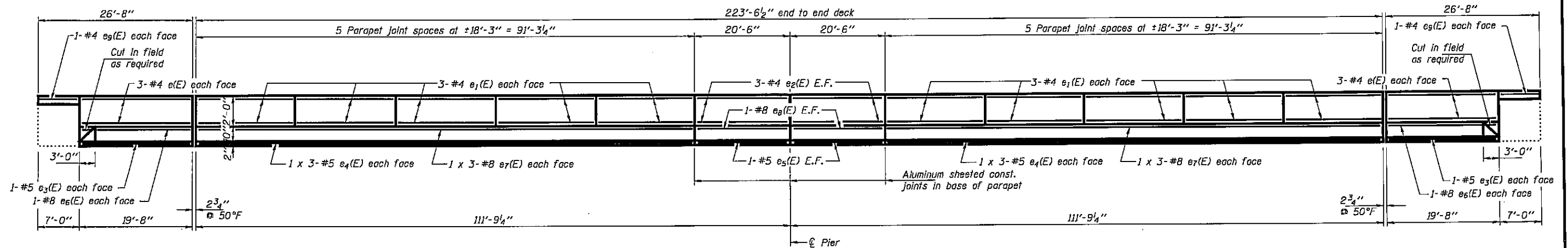
CONCRETE SUPERSTRUCTURE
CROSS SECTION



NOTES:

CARE SHALL BE TAKEN AT THE REMOVAL POINT WHERE THE PARAPET MEETS THE EXISTING MICROSILICA OVERLAY. THE ENGINEER MAY ELECT TO REQUIRE A SAW CUT AND/OR REMOVAL BY HAND AT THIS LOCATION IN ORDER TO ENSURE PROTECTION OF THE MICROSILICA BRIDGE DECK. AN APPROVED SEALANT AS DETAILED IN THE SPECIAL PROVISIONS SHALL BE APPLIED IN THIS AREA AFTER RECONSTRUCTION IS COMPLETE. THE CONTRACTOR SHALL INCLUDE THE PRICE OF ALL WORK DESCRIBED IN THIS NOTE IN THE BID PRICE FOR CONCRETE SUPERSTRUCTURE.

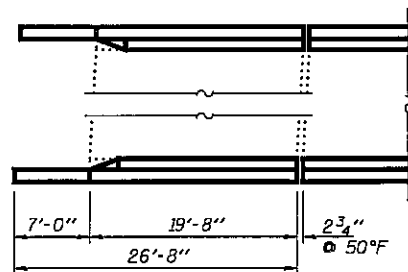
CONTRACT 72A37
CONCRETE REMOVAL &
SUPERSTRUCTURE DETAILS
(NOT TO SCALE)



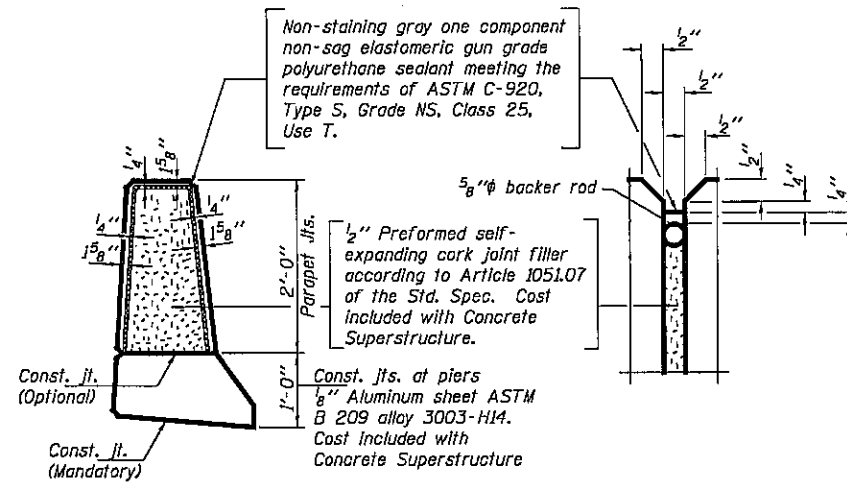
INSIDE ELEVATION OF PARAPET

MIN. BAR LAPS

#5 bars = 2'-2"
#8 bars = 4'-6"



TYPICAL PARTIAL PLAN

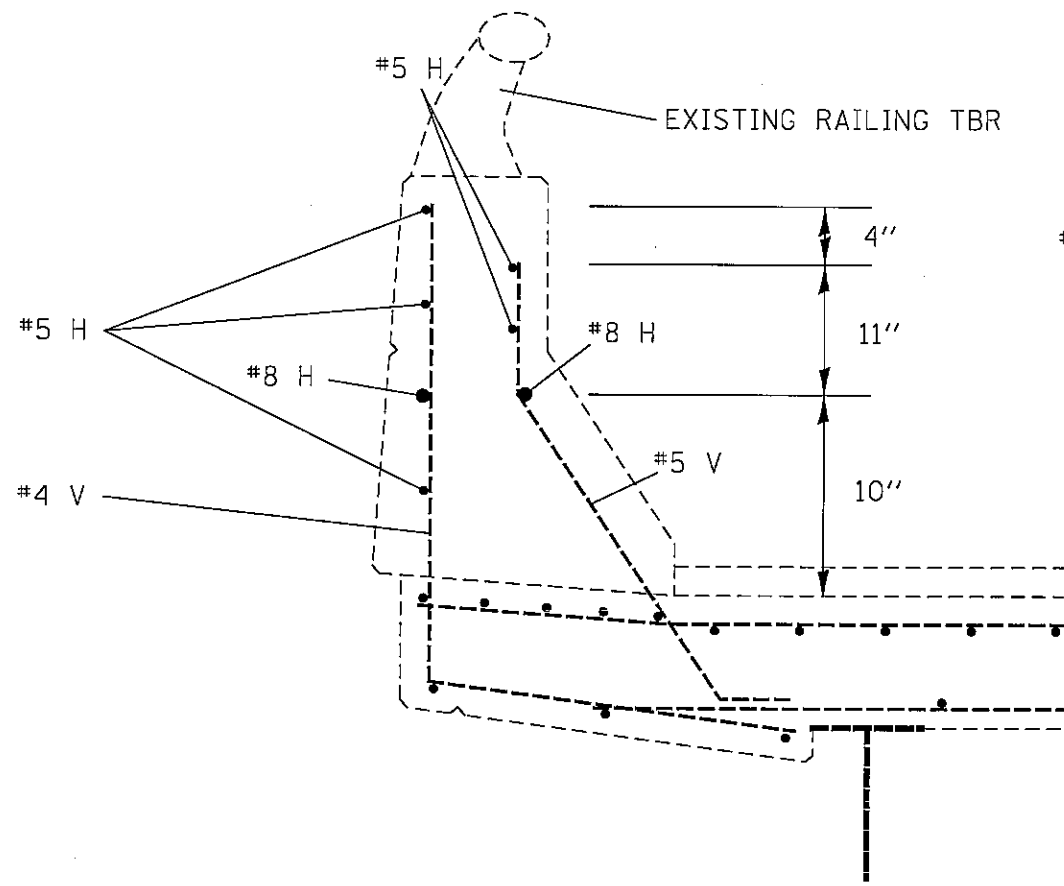


PARAPET JOINT DETAILS

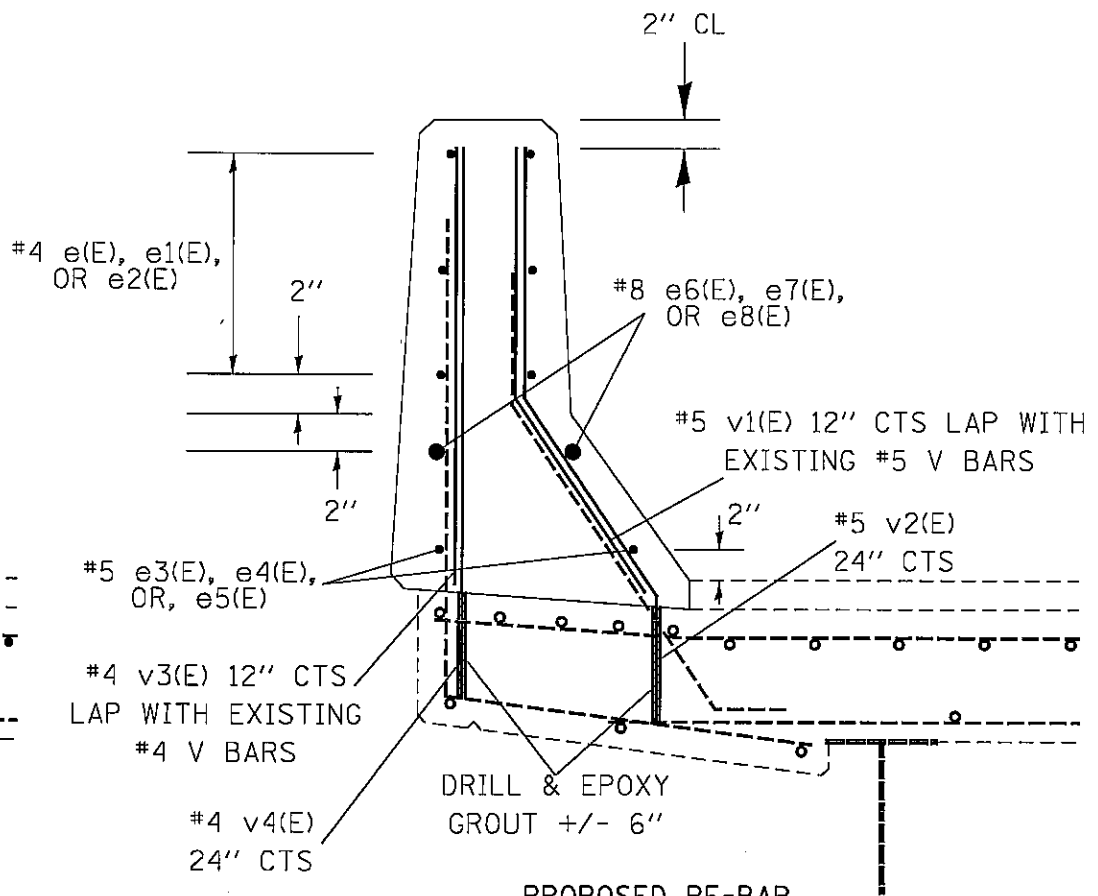
BILL OF MATERIAL			
BAR	#	SIZE	LENGTH
v1(E)	514	#5	2'-10"
v2(E)	256	#5	3'-4"
v3(E)	538	#4	2'-8"
v4(E)	268	#4	3'-2"
v5(E)	64	#4	9"
e(E)	24	#4	19'-4"
e1(E)	120	#4	17'-9"
e2(E)	24	#4	20'-2"
e3(E)	8	#5	19'-4"
e4(E)	24	#5	32'-0"
e5(E)	8	#5	20'-2"
e6(E)	8	#8	19'-4"
e7(E)	24	#8	33'-6"
e8(E)	8	#8	20'-2"
e9(E)	8	#4	6'-8"
RE-BAR EPOXY COATED			10,180 POUNDS
CONCRETE REMOVAL			54 CU YD
CONCRETE SUPERSTRUCTURE			65 CU YD

Reinforcement bars designated (E) shall be epoxy coated.
Bars indicated thus 1 x 3-#5 etc. indicates 1 line of bars with 3 lengths per line.
Bar shape details on pages 7 and 10.

CONTRACT 72A37
REINFORCEMENT &
JOINTING DETAILS
(NOT TO SCALE)

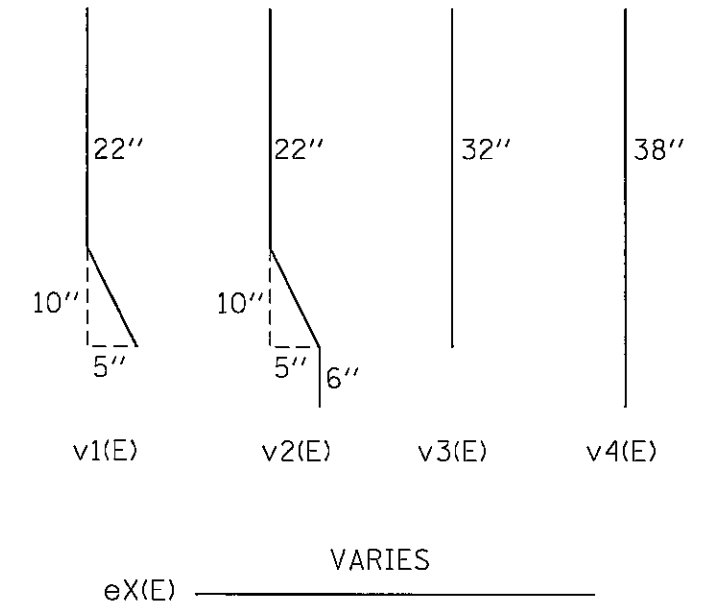


EXISTING RE-BAR CROSS SECTION



PROPOSED RE-BAR CROSS SECTION

BAR SHAPE DETAILS



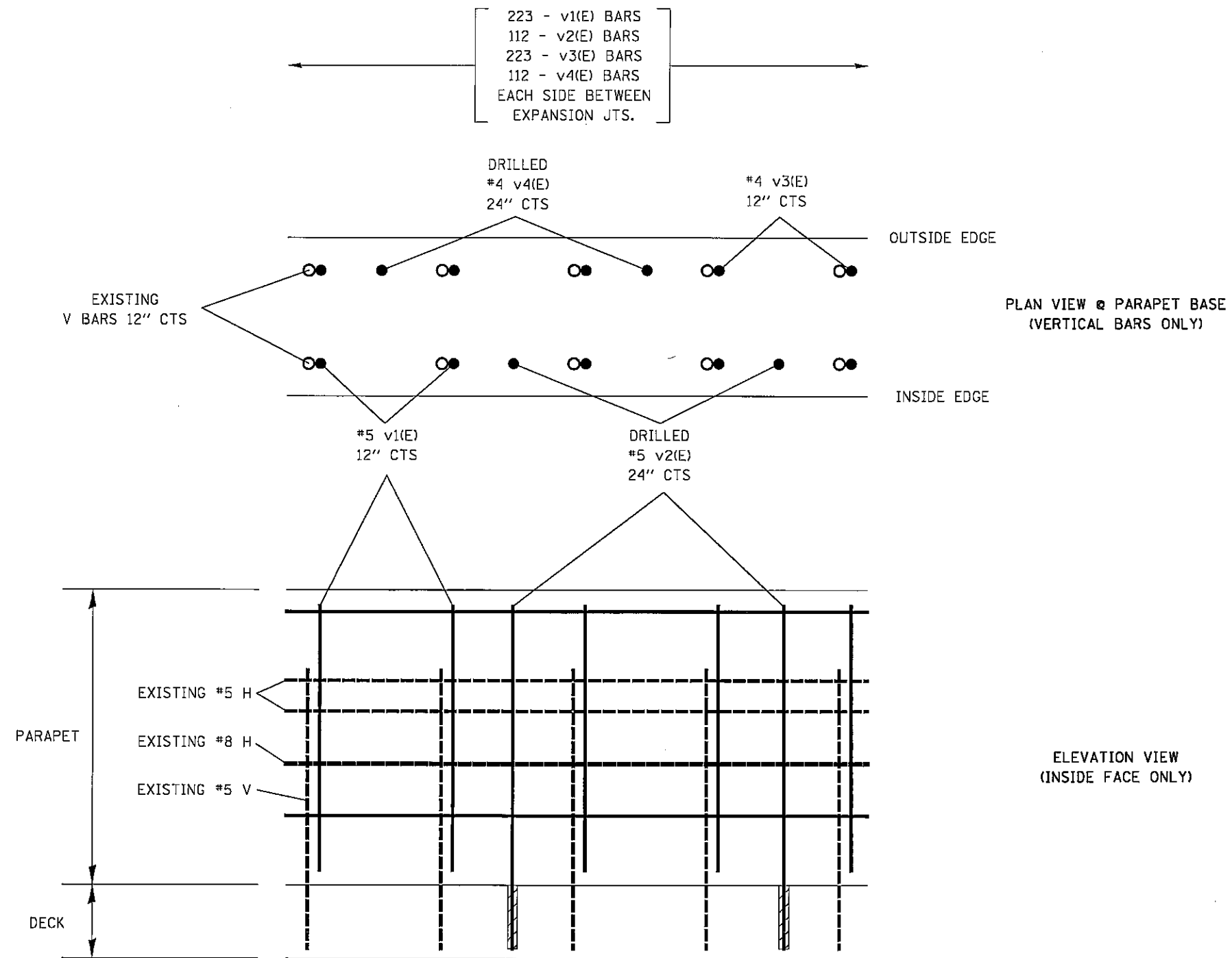
NOTES:

EXISTING RE-BAR DEPTHS WILL VARY DEPENDING ON THE DEPTH OF CONCRETE ACTUALLY REMOVED DURING CONST.

v2(E) AND v4(E) BARS SHALL BE DRILLED AND EPOXY GROUTED IN PLACE ACCORDING TO ARTICLE 584 OF THE STANDARD SPECIFICATIONS. DRILLING DEPTH SHALL BE APPROXIMATELY DOWN TO THE BOTTOM LAYER OF DECK STEEL (+/- 6"). v2(E) AND v4(E) BARS SHALL ALTERNATE WITH EACH OTHER AS DETAILED IN THE PLAN DRAWING ON THE FOLLOWING SHEET.

THE CURVED END SECTIONS OF EXISTING RAIL SHALL BE SALVAGED AND REMAIN IN IDOT POSSESSION. AFTER REMOVAL, THE CONTRACTOR SHALL CONTACT DAVE COPENBARGER AT (217) 785-5306 FOR RETRIEVAL OF THE END SECTIONS. ALL OTHER SECTIONS OF RAIL SHALL BE DISPOSED OF BY THE CONTRACTOR. THE CONTRACTOR SHALL INCLUDE THE COST OF THE RAIL REMOVAL AND DISPOSAL IN THE BID PRICE FOR CONCRETE REMOVAL.

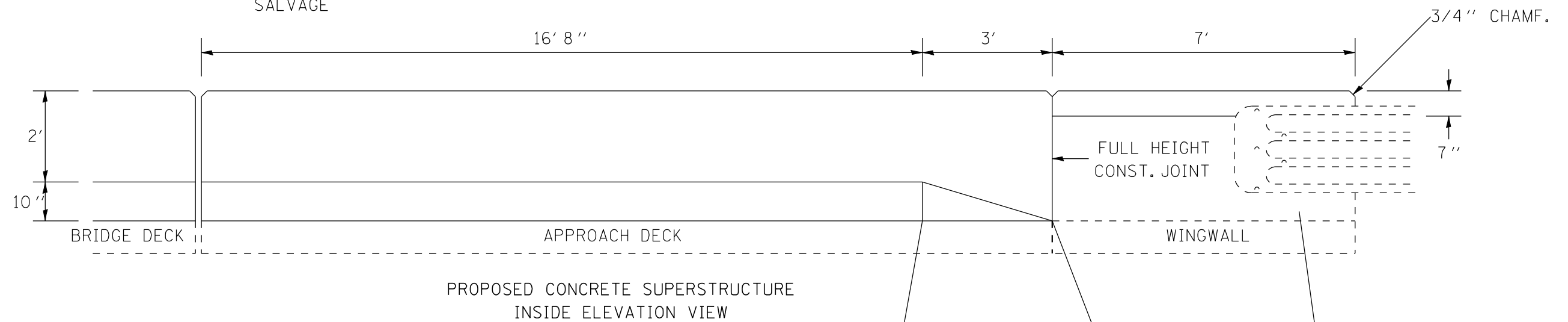
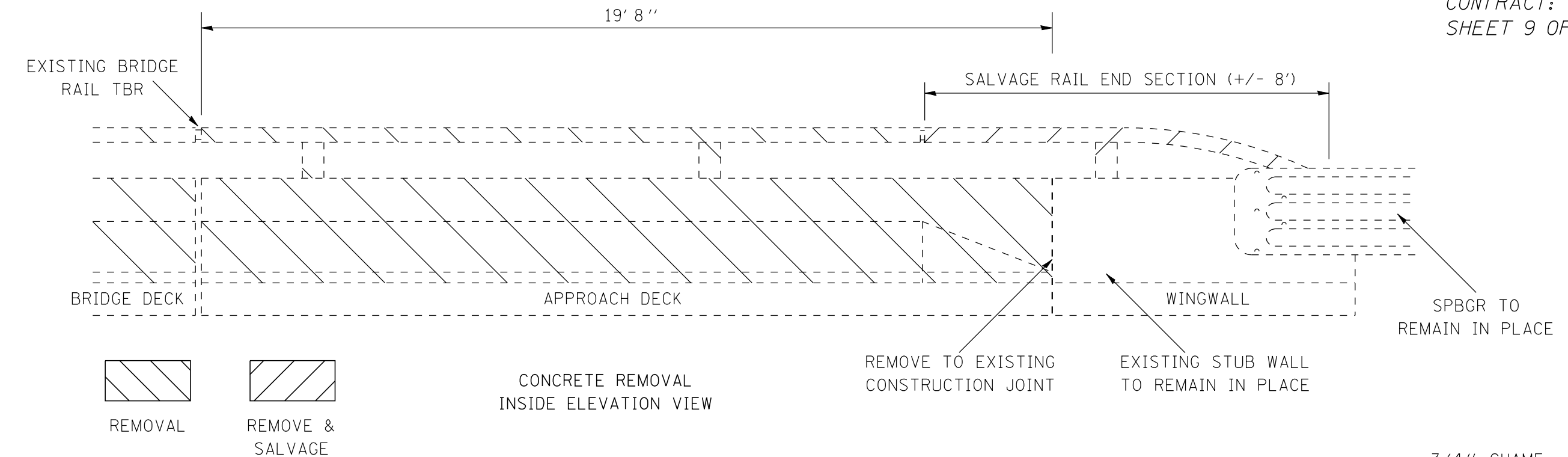
CONTRACT 72A37
EXISTING & PROPOSED
RE-BAR DETAILS
(NOT TO SCALE)



NOTES:

v2(E) AND v4(E) BARS SHALL BE DRILLED AND EPOXY GROUTED IN PLACE ACCORDING TO ARTICLE 584 OF THE STANDARD SPECIFICATIONS. DRILLING DEPTH SHALL BE APPROX. DOWN TO THE BOTTOM LAYER OF DECK STEEL (+/- 6"), v2(E) AND v4(E) BARS SHALL ALTERNATE WITH EACH OTHER AS DETAILED IN THE PLAN DRAWING.

CONTRACT 72A37
BAR DRILLING
LOCATION DETAIL
(NOT TO SCALE)

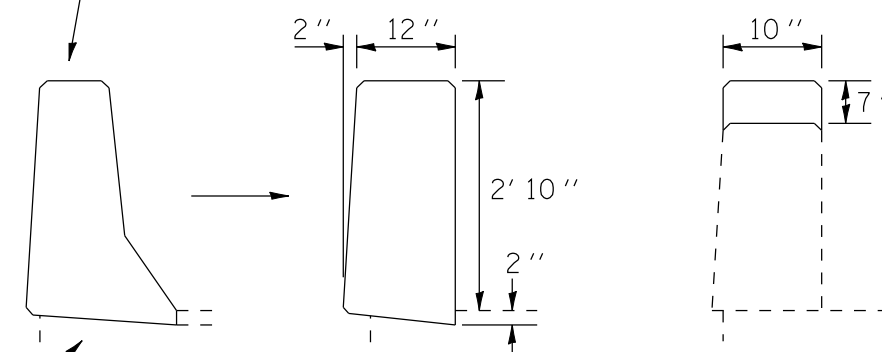


NOTES:

THE PROPOSED WINGWALL CAP SHALL BE Poured THE ENTIRE LENGTH OF THE WINGWALL AND SHALL INCORPORATE THE EXISTING SPBGR HARDWARE PRESENT.

THE CURVED END SECTIONS OF EXISTING RAIL SHALL BE SALVAGED AND REMAIN IN IDOT POSSESSION. AFTER REMOVAL, THE CONTRACTOR SHALL CONTACT DAVE COPENBARGER AT (217) 785-5306 FOR RETRIEVAL OF THE END SECTIONS. ALL OTHER SECTIONS OF RAIL SHALL BE DISPOSED OF BY THE CONTRACTOR. THE CONTRACTOR SHALL INCLUDE THE COST OF THE RAIL REMOVAL AND DISPOSAL IN THE BID PRICE FOR CONCRETE REMOVAL.

ALL CONSTRUCTION JOINTS SHALL BE BONDED.



NORMAL CROSS SECTION
SEE SHEET 5 FOR DIMENSIONS

CROSS SECTION
TRANSITION DETAIL

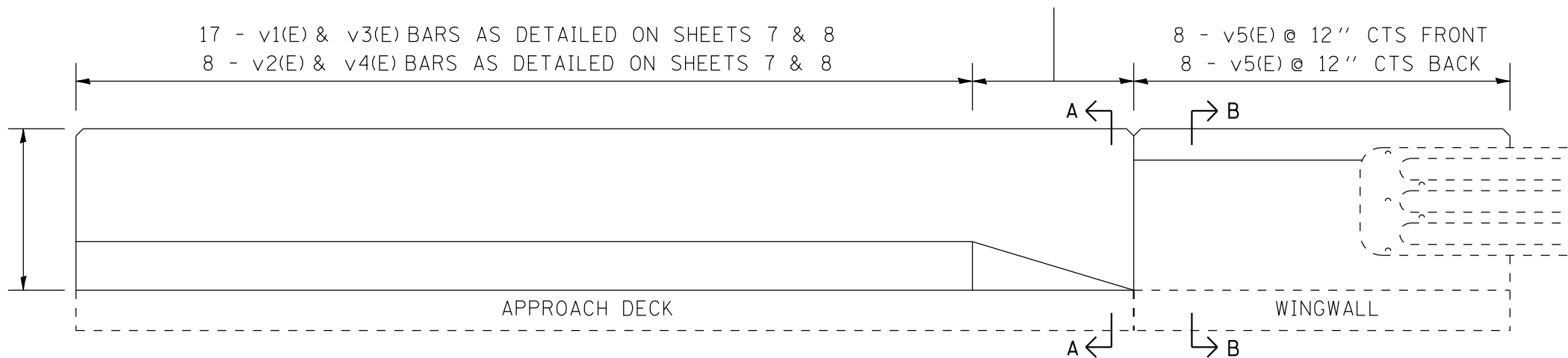
CONTRACT 72A37
APPROACH SLAB
CONCRETE DETAILS
(NOT TO SCALE)

3 - v3(E) @ 12" CTS & 2 - v4(E) @ 24" CTS FRONT
3 - v3(E) @ 12" CTS & 1 - v4(E) BACK (SEE DETAIL)

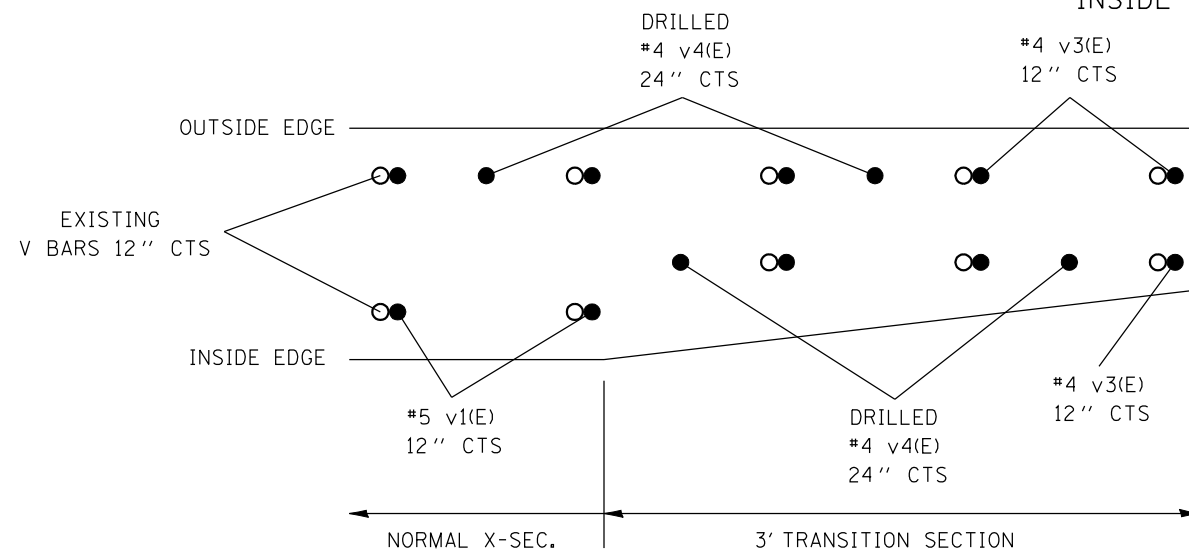
17 - v1(E) & v3(E) BARS AS DETAILED ON SHEETS 7 & 8
8 - v2(E) & v4(E) BARS AS DETAILED ON SHEETS 7 & 8

8 - v5(E) @ 12" CTS FRONT
8 - v5(E) @ 12" CTS BACK

#4 e(E), e3(E),
AND e6(E) BARS
AS DETAILED
ON SHEETS 6 & 7
(TRIM BOTTOM
BAR 3' FOR
WALL TAPER)



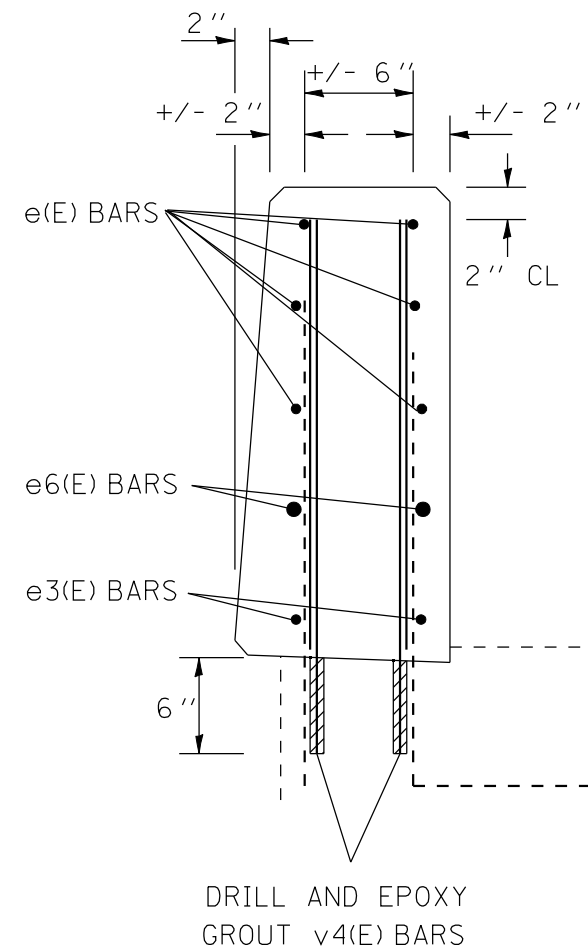
PROPOSED APPROACH SLAB RE-BAR
INSIDE ELEVATION VIEW



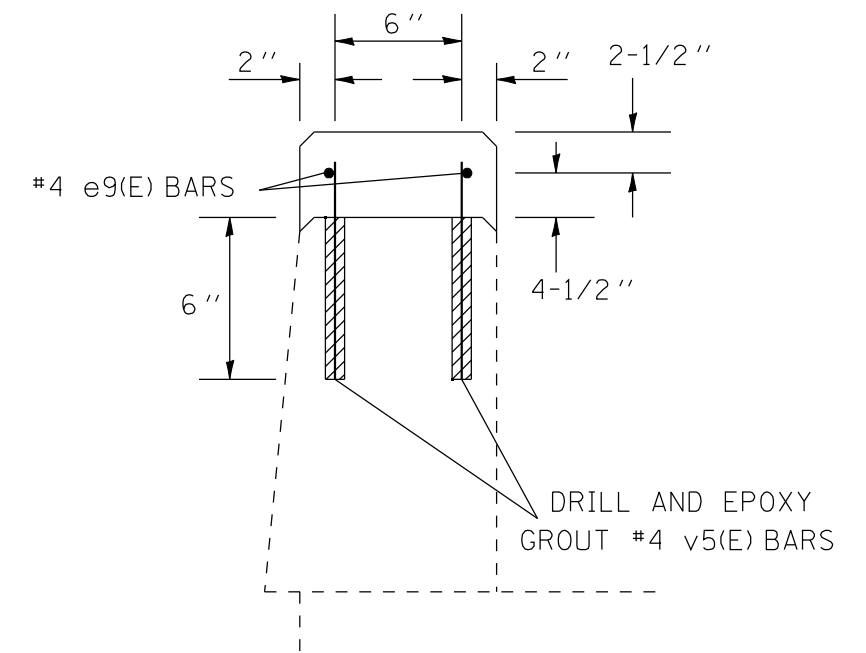
PLAN VIEW @ PARAPET BASE
(VERTICAL BARS ONLY)

NOTES:

v2(E) AND v4(E) BARS SHALL BE DRILLED AND EPOXY GROUTED IN PLACE ACCORDING TO ARTICLE 584 OF THE STANDARD SPECIFICATIONS. DRILLING DEPTH SHALL BE APPROX. DOWN TO THE BOTTOM LAYER OF DECK STEEL (+/- 6"). v2(E) AND v4(E) BARS SHALL ALTERNATE WITH EACH OTHER AS DETAILED IN THE PLAN DRAWING.



SECTION A-A



SECTION B-B

CONTRACT 72A37
APPROACH SPAN
RE-BAR DETAIL
(NOT TO SCALE)