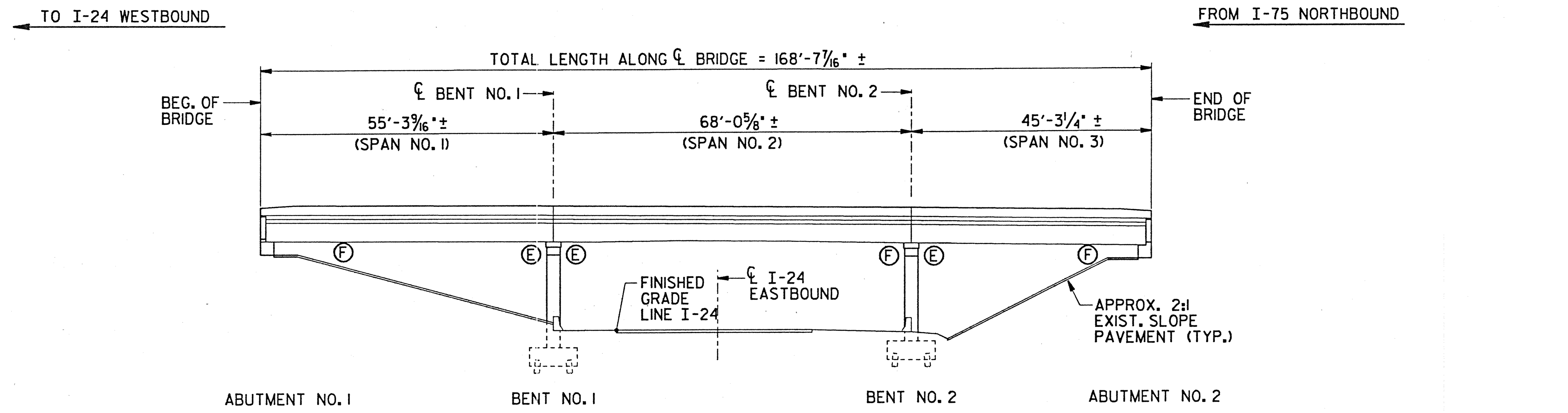
PROJECT NO.	YEAR	SHEET NO.
33004-4135-04	1996	

REVISIONS

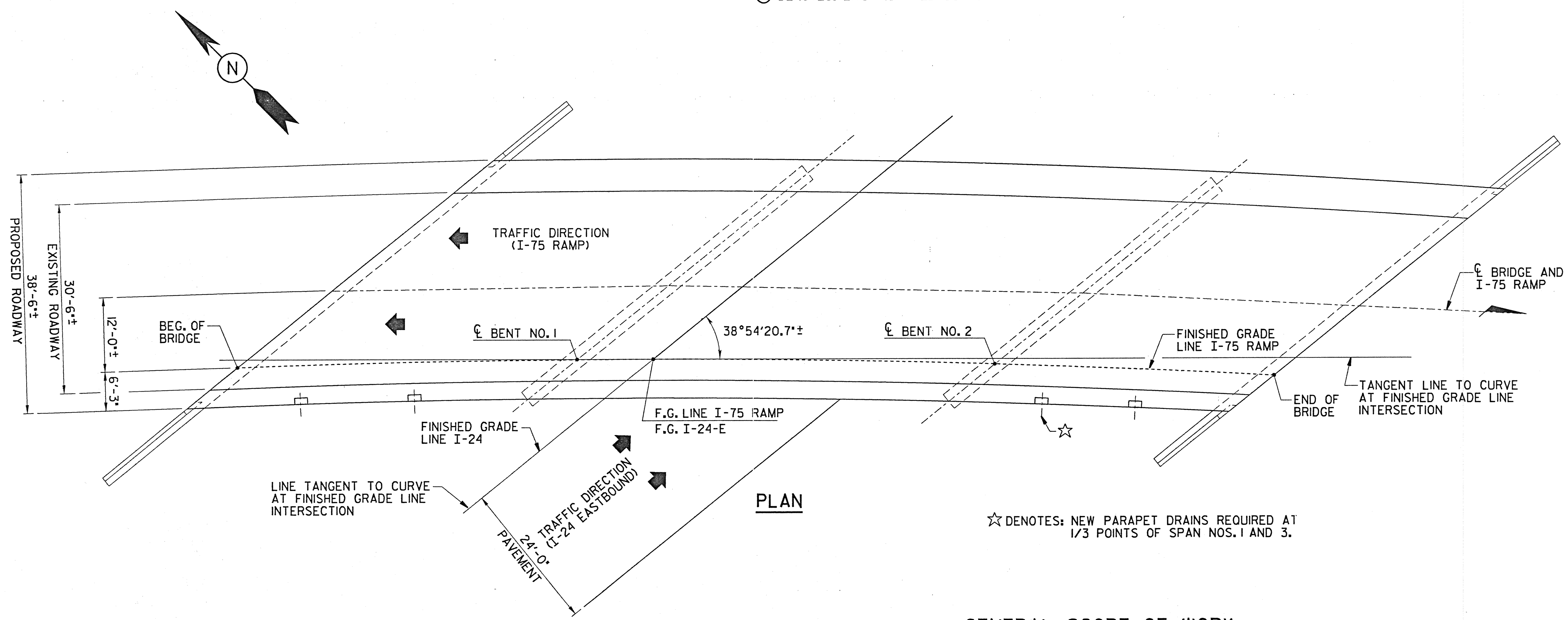
NO.	DATE	BY	BRIEF DESCRIPTION



ELEVATION
(ALONG BRIDGE ℄)

Ⓔ DENOTES: EXISTING EXPANSION SUPPORT

Ⓕ DENOTES: EXISTING FIXED SUPPORT



PLAN

☆ DENOTES: NEW PARAPET DRAINS REQUIRED AT 1/3 POINTS OF SPAN NOS. 1 AND 3.

LIST OF DRAWINGS

DWG. NO.	LAST REV. DATE	DRAWING
BR-26-1		LAYOUT OF BRIDGE TO BE REPAIRED
BR-26-2		GENERAL NOTES AND ESTIMATED QUANTITIES
BR-26-3		SUPERSTRUCTURE
BR-26-4		SUPERSTRUCTURE DETAILS
BR-26-5		SUPERSTRUCTURE DETAILS
BR-26-6		PRESTRESSED BEAM DETAILS
BR-26-7		ABUTMENT DETAILS

LIST OF STANDARD DRAWINGS

DWG. NO.	LAST REV. DATE	DRAWING
STD-1-1	12-18-95	BRIDGE RAILING CONCRETE PARAPET
STD-1-2	9-11-95	STEEL SLIDER PLATE ASSEMBLIES FOR CONCRETE PARAPET AND BRIDGE DECK DRAIN DETAILS
STD-14-3		DETAILS FOR PRESTRESSED BOX BEAMS
S-GR-SERIES	VARIES	STANDARD GUARDRAIL DETAILS

*LIST OF REFERENCE DRAWINGS

DWG. NO.	LAST REV. DATE	DRAWING
H-2-32 THRU H-2-35		EXISTING BRIDGE PLANS

LIST OF SPECIAL PROVISIONS

NO.	LAST REV. DATE	REGARDING
105A	**	APPROVAL OF SHOP DRAWINGS

* DENOTES: THESE DRAWINGS ARE TO BE PRINTED WITH PLANS.
** DENOTES: CURRENT REVISION DATE, AS PER CONTRACT DOCUMENTS.

GENERAL SCOPE OF WORK

1. PROVIDE REQUIRED TRAFFIC CONTROL TO MAINTAIN ONE LANE OF TRAFFIC ON THE EXISTING BRIDGE.
2. REMOVE THE EXISTING 3"± ASPHALT OVERLAY FOR THE ENTIRE LENGTH OF BRIDGE. REMOVE PORTIONS OF ASPHALT APPROACHES FOR A 300 FT. TRANSTION LENGTH BEYOND EACH BRIDGE END. SEE DETAIL ON SHEET NO. 2A.
3. REMOVE AND REPLACE EXISTING SIDE BY SIDE PRESTRESSED BOX BEAMS 'F' AND 'K' OF SPAN NO. 2 AND BEAM 'K' OF SPAN NO. 3. SEE DETAILS ON DWG. NOS. BR-26-3 AND BR-26-5.
4. REMOVE EXISTING CURBS AND BRIDGERAILS FOR ENTIRE LENGTH OF BRIDGE. PLACE EPOXY COATED REINFORCEMENT AND POUR 6 INCH NEW CONCRETE OVERLAY AND CANTILEVERS. SEE DWG. NOS. BR-26-3 AND BR-26-4.
5. INSTALL NEW CONCRETE PARAPET WITH ENDPOSTS AND PARAPET DRAINS (WHERE SHOWN). SEE STANDARD DWG. NOS. STD-1-1 AND STD-1-2 AND DWG. NOS. BR-26-3, BR-26-4 AND BR-26-5.
6. REMOVE PORTIONS OF EXISTING GUARDRAIL AND INSTALL NEW METAL GUARDRAIL ATTACHEMENT AT BRIDGE ENDS AT ALL FOUR CORNERS OF THE EXISTING BRIDGE. FOR DETAILS, SEE SHEET 2A AND S-GR-SERIES.
7. CONSTRUCT NEW ASPHALT APPROACH TRANSITIONS AS SHOWN IN DETAIL ON SHEET NO. 2A.
8. REPAIR FILL SETTLEMENT AREA AT ABUTMENT NO. 2 AS SHOWN IN DETAIL ON DWG. NO. BR-26-7.

DESIGNED BY	R. LOVETT	DATE	9/96
DRAWN BY	J.L. KITTRELL	DATE	9/96
SUPERVISED BY	PETRONE	DATE	9/96
CHECKED BY	WILSON, PETRONE	DATE	9/96

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

LAYOUT OF BRIDGE TO BE REPAIRED
INTERSTATE 75
OVER
INTERSTATE 24
BRIDGE NO. 33-I75-1.41
HAMILTON COUNTY
1996

ROBIN LOVETT · STATE OF TENNESSEE · 022

BR-26-1

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ESTIMATED BRIDGE QUANTITIES

ITEM NO.	DESCRIPTION	UNIT	QUANTITY
604-03.09	CLASS "D" CONCRETE (BRIDGE DECK)	C.Y.	(1) 136
604-04.02	APPLIED TEXTURE FINISH (EXISTING STRUCTURE)	S.Y.	(2) 478
604-05.31	BRIDGE DECK GROOVING (MECHANICAL)	S.Y.	(3) 645
604-10.02	CONCRETE REPAIRS	C.Y.	(4) 7
604-10.13	CONCRETE SLAB REMOVAL	L.S.	(5) 1
604-10.14	REMOVE EXISTING WEARING SURFACE	L.S.	(6) 1
604-10.18	REINFORCING STEEL (REPAIRS)	LBS.	(7) 25,304
615-02.05	PRESTRESSED CONCRETE BOX BEAM (33" x 36")	L.F.	(8) 180
620-03	CONCRETE PARAPET (STD-1-1)	L.F.	(9) 332

FOOTNOTES:

(1) INCLUDES ALL LABOR AND MATERIALS (EXCEPT REINFORCING STEEL) NECESSARY TO PLACE NEW 6 INCH CONCRETE OVERLAY AND CANTILEVERS. SEE DWG. NOS. BR-26-3 AND BR-26-4.

(2) INCLUDES ALL LABOR AND MATERIALS NECESSARY FOR THE APPLICATION OF TEXTURE COATING FOR FULL LENGTH OF BRIDGE AS SHOWN IN DETAIL ON THIS SHEET.

(3) INCLUDES ALL QUANTITIES FOR GROOVING BRIDGE DECK. SEE BRIDGE DECK SURFACE FINISH NOTE ON THIS SHEET.

(4) INCLUDES ALL LABOR AND MATERIALS NECESSARY FOR THE PLACEMENT OF CLASS "A" CONCRETE AT ABUTMENT NO. 2. SEE DETAIL ON DWG. NO. BR-26-7.

(5) INCLUDES ALL LABOR AND MATERIALS NECESSARY FOR THE REMOVAL AND DISPOSAL OF EXISTING CURBS AND CONCRETE BRIDGERAILS. SEE DWG. NO. BR-26-3.

(6) INCLUDES COST OF ALL LABOR AND MATERIALS REQUIRED TO REMOVE AND DISPOSE OF THE EXISTING ASPHALT WEARING SURFACE (APPROX. DEPTH = 3"±) WITHIN THE LIMITS OF THE BRIDGE.

(7) INCLUDES EPOXY COATED REINFORCING STEEL REQUIRED FOR THE NEW 6 INCH CONCRETE OVERLAY AND CANTILEVERS. SEE BILL OF STEEL ON DWG. NO. BR-26-4.

(8) INCLUDES ALL LABOR AND COST OF NEW BOX BEAMS, SAW CUTTING EXISTING GROUTED KEYWAYS, FIELD CUTTING LATERAL TIE BARS, AND REMOVAL AND DISPOSAL OF EXISTING BEAMS. ALSO INCLUDES SETTING AND GROUTING KEYWAYS OF NEW BOX BEAMS. SEE DETAILS ON DWG. NOS. BR-26-3 AND BR-26-5.

(9) INCLUDES ALL LABOR AND MATERIALS NECESSARY TO CONSTRUCT NEW CONCRETE PARAPET WITH ENDPOSTS AND PARAPET DRAINS. SEE STANDARD DWG. NOS. STD-1-1 AND STD-1-2 AND DWG. NO. BR-26-1.

GENERAL NOTES

SPECIFICATIONS: STANDARD ROAD AND BRIDGE SPECIFICATIONS OF THE TENNESSEE DEPARTMENT OF TRANSPORTATION. (MARCH 1, 1995 EDITION).

DESIGN SPECIFICATIONS: AASHTO 1992 EDITION WITH ADDENDA.

CONCRETE FOR ABUTMENT FILL SETTLEMENT REPAIR: SHALL BE CLASS "A" CONCRETE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS.

BRIDGE DECK CONCRETE: SHALL BE CLASS "D" CONCRETE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS.

BRIDGE DECK SURFACE FINISH: TO BE IN ACCORDANCE WITH METHOD (C) IN SUBSECTION 604.23 OF THE STANDARD SPECIFICATIONS.

CONCRETE CURING: ALL CONCRETE IN REPAIR AREAS TO BE CURED ACCORDING TO THE STANDARD SPECIFICATIONS.

CONCRETE FINISH: SHALL BE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS. ONLY SURFACES DESIGNATED ON PLANS SHALL RECEIVE AN APPLIED TEXTURE FINISH.

REINFORCING STEEL: SEE THE STANDARD SPECIFICATIONS.

GROUTED BARS IN DRILLED HOLES: HORIZONTALLY DRILLED HOLES SHALL BE DRILLED ½" IN DIAMETER LARGER THAN THE BAR, CLEANED, PACKED WITH NON-SHRINK GROUT AND BAR DRIVEN TO ITS SEAT. VERTICALLY DRILLED HOLES SHALL BE DRILLED ¼" IN DIAMETER LARGER THAN THE BAR, CLEANED, PACKED WITH EPOXY GROUT AND BAR DRIVEN TO ITS SEAT. ALL GROUTING MATERIAL SHALL BE APPROVED BY T.D.O.T. MATERIALS AND TESTS.

SHOP DRAWINGS: SHALL BE SUBMITTED ACCORDING TO SPECIAL PROVISION NO. 105A, EXCEPT SHOP DRAWINGS SHALL BE SUBMITTED TO THE BRIDGE REPAIR OFFICE OF THE DIVISION OF STRUCTURES.

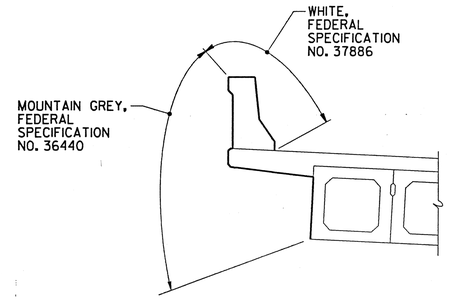
MECHANICAL BAR SPLICERS: MUST BE ON THE APPROVED LIST MAINTAINED BY THE DIVISION OF MATERIALS AND TESTS. THE BAR SPLICER SHALL MEET AASHTO STANDARD SPECIFICATIONS FOR MECHANICAL CONNECTION. WHEN EPOXY COATING IS REQUIRED, THE EXPOSED THREADS SHALL BE REPAIRED AFTER SPLICING ACCORDING TO THE STANDARD SPECIFICATIONS, SECTION 907. THE COST OF FURNISHING THE BAR SPLICERS, (AND EPOXY COATING WHEN REQUIRED) INCLUDING ALL LABOR AND MATERIALS NECESSARY FOR COMPLETE INSTALLATION, SHALL BE INCLUDED IN THE UNIT PRICE BID FOR ITEM NO. 604-10.18, LBS.

DEMOLITION: THE CONTRACTOR SHALL TAKE SPECIAL CARE TO PROTECT ANY PARTS OF THE STRUCTURE THAT ARE NOT TO BE REMOVED SPECIFICALLY. THE CONTRACTOR IS NOT ALLOWED TO USE A HYDRAULIC RAM MOUNTED ON A BACKHOE (COMMONLY CALLED A HOE RAM) OR OTHER SIMILARLY HEAVY EQUIPMENT FOR CONCRETE REMOVAL. SAWING OR CUTTING OF THE CONCRETE IS ACCEPTABLE SO LONG AS ANY SPECIFIED PROJECTION OF THE EXISTING REINFORCING STEEL IS MAINTAINED. ALL DEVICES PROPOSED FOR CONCRETE DEMOLITION SHALL MEET APPROVAL OF THE ENGINEER.

PROJECT NO.	YEAR	SHEET NO.
33004-4135-04	1996	2

REVISIONS

NO.	DATE	BY	BRIEF DESCRIPTION



TEXTURE COATING DETAIL

NOTE: COST OF TEXTURE COATING SHALL BE INCLUDED IN ITEM NO. 604-04.02, AND INCLUDES ENDPOSTS AS SHOWN ON STANDARD DWG. NO. STD-1-1.

NOTE: THE CONTRACTOR SHALL USE CONTAINMENT SCREENS OR OTHER MEASURES AS NECESSARY TO PREVENT ANY TEXTURE COATING FROM ENTERING THE ENVIRONMENT. CONTAINMENT MEASURES SHALL BE APPROVED BY THE ENGINEER AND COST SHALL BE INCLUDED IN ITEMS BID ON.

ROBIN LOVETT — REGISTERED ENGINEER — AGRICULTURE — No. 022... — STATE OF TENNESSEE

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

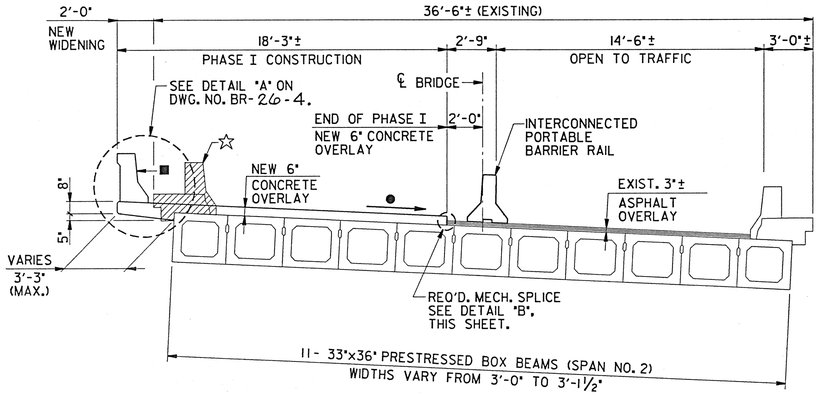
GENERAL NOTES AND ESTIMATED QUANTITIES INTERSTATE 75 OVER INTERSTATE 24 BRIDGE NO. 33-I75-1.41 HAMILTON COUNTY 1996

DESIGNED BY R. LOVETT DATE 9/96
DRAWN BY G. GERTH DATE 9/96
SUPERVISED BY PETRONE DATE 9/96
CHECKED BY WILSON, PETRONE DATE 9/96

PROJECT NO.	YEAR	SHEET NO.
33004-4135-04	1996	

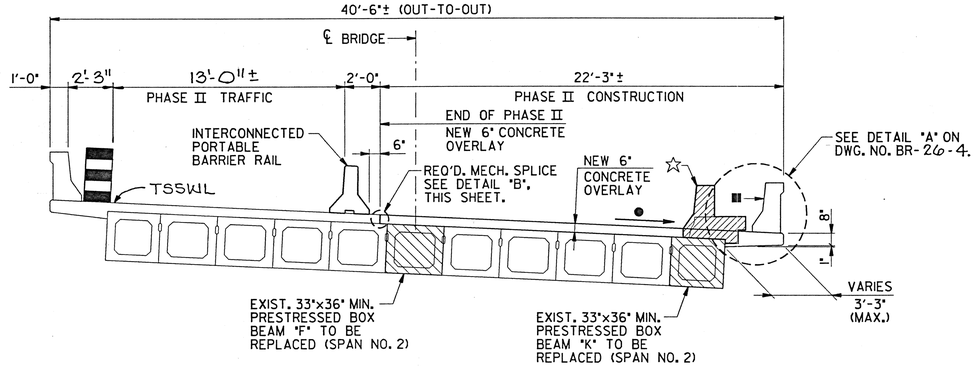
REVISIONS

NO.	DATE	BY	BRIEF DESCRIPTION



PHASE I CONSTRUCTION

(SHOWN AT SPAN NO. 2)



PHASE II CONSTRUCTION

(SHOWN AT SPAN NO. 2)

TYPICAL CROSS SECTIONS

(LOOKING FORWARD ON SURVEY)

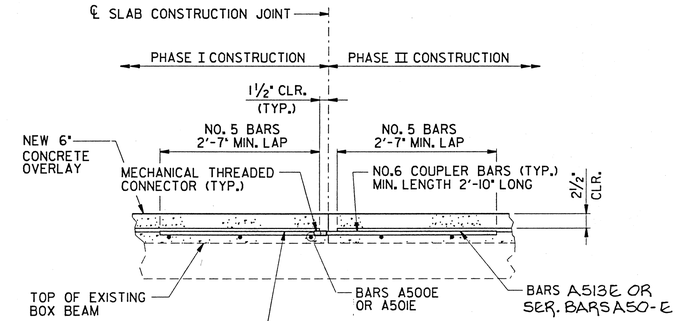
■ DENOTES: NEW CONCRETE PARAPET, SEE STD. DWG. NO. STD-1-1.

● DENOTES: THE NEW 6" CONCRETE OVERLAY SHALL CONFORM TO THE EXISTING CROSS SLOPE. SEE SURFACE FINISH NOTE ON DWG. NO. BR-26-2.

☆ DENOTES: PHASED REMOVAL OF EXISTING BRIDGERAIL AND CONCRETE CURBS FOR ENTIRE LENGTH OF BRIDGE, TYPICAL EACH SIDE.

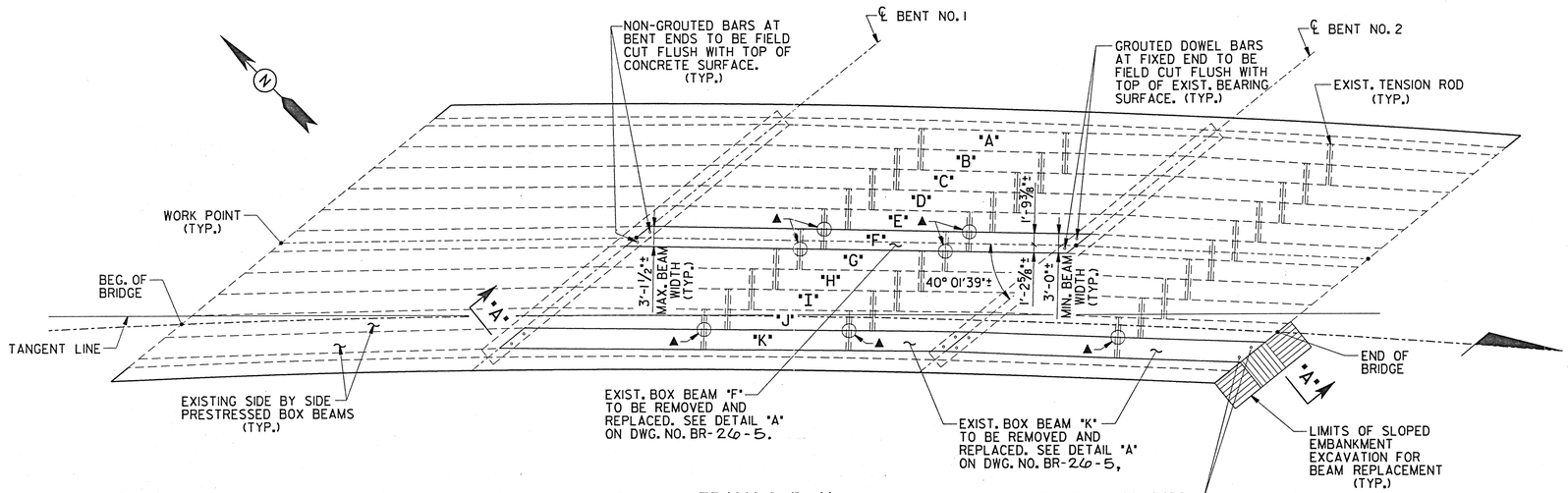
NOTE: CROSS SECTION DIMENSIONS ARE RADIAL TO ROADWAY CURVE.

NOTE: THE COST OF REMOVING AND DISPOSING OF THE EXISTING CONCRETE CURBS AND BRIDGERAILS WITHIN THE LIMITS SHOWN IS TO BE INCLUDED IN ITEM NO. 604-10.13, CONCRETE SLAB REMOVAL, L.S.



DETAIL "B"

NOTE: THE COST OF MECHANICAL THREADED CONNECTORS AND THE COST OF THREADING THE COUPLER BARS SHALL BE INCLUDED IN THE PRICE BID FOR ITEM NO. 604-10.18, REINFORCING STEEL (REPAIRS), LBS.



FRAMING PLAN

▲ DENOTES: EXISTING 1" DIA. TENSION RODS TO BE FIELD CUT AT THESE LOCATIONS.

NOTE: EXISTING TENSION RODS ARE SHOWN IN APPROXIMATE LOCATIONS OF 1/3 SPAN LENGTH IN SPAN NO. 2 AND AT MID SPAN OF SPAN NO. 3. CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD LOCATING TIE RODS.

ROBIN LOVETT — LICENSED PROFESSIONAL ENGINEER — No. 022217 — STATE OF TENNESSEE — 9/26/96

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

SUPERSTRUCTURE
INTERSTATE 75
OVER
INTERSTATE 24
BRIDGE NO. 33-I75-1.41
HAMILTON COUNTY
1996

DESIGNED BY	R. LOVETT	DATE 9/96
DRAWN BY	G. GERTH	DATE 9/96
SUPERVISED BY	PETRONE	DATE 9/96
CHECKED BY	WILSON, PETRONE	DATE 9/96

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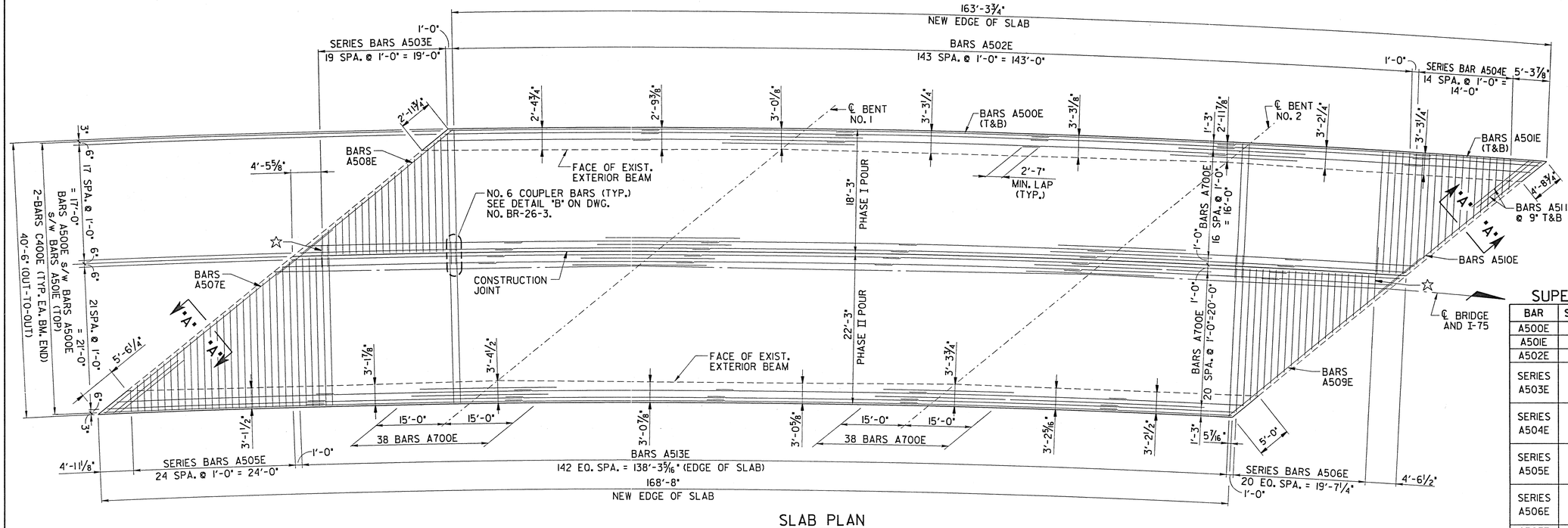
PROJECT NO.	YEAR	SHEET NO.
33004-4135-04	1996	

REVISIONS

NO.	DATE	BY	BRIEF DESCRIPTION



SLAB PLAN

(TOP OF 6" OVERLAY)

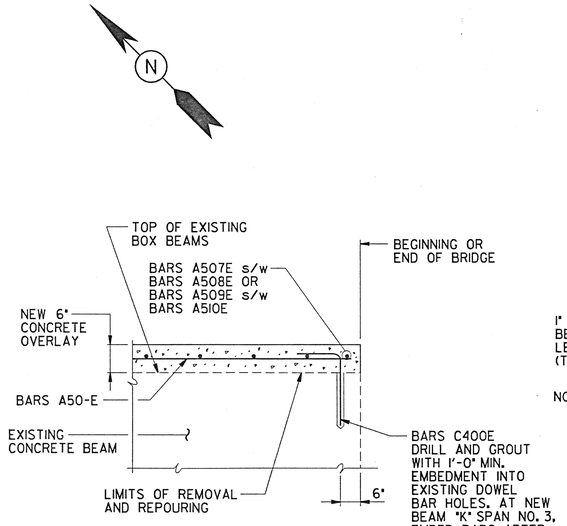
☆ DENOTES: THREAD ONE END OF BAR IN PLACE OF REQ'D. COUPLER BAR AT THIS LOCATION.

NOTE: SLAB OFFSETS AT INTERMEDIATE POINTS ALONG EXTERIOR BEAMS ARE GIVEN AT 1/3 POINTS. OFFSET DIMENSIONS ARE AT RIGHT ANGLES TO BEAM FACE UNLESS SHOWN OTHERWISE.

SUPERSTRUCTURE BILL OF STEEL

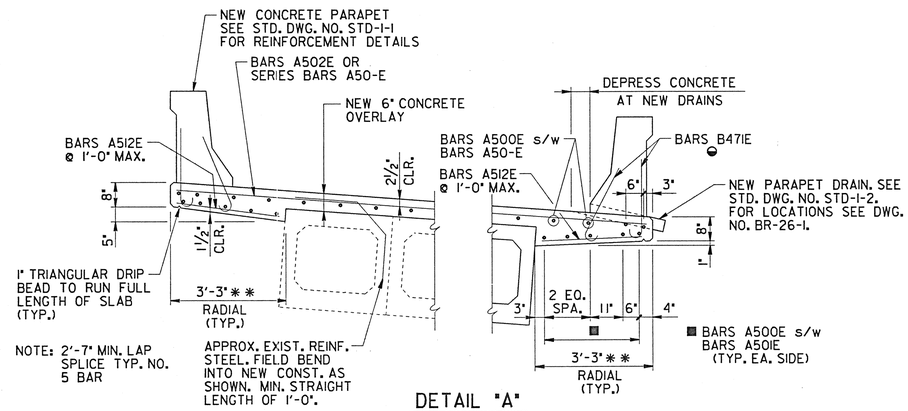
BAR	SIZE	NO. REQ'D.	LENGTH
A500E	5	260	30'-0"
A501E	5	52	31'-3"
A502E	5	144	17'-11"
SERIES A503E	5	1	LENGTH VARIES FROM 3'-0" TO 17'-2" IN INC. OF 9" (20 BARS) TOTAL LENGTH = 201'-8"
SERIES A504E	5	1	LENGTH VARIES FROM 17'-6" TO 3'-3" IN INC. OF 1'-0¼" (15 BARS) TOTAL LENGTH = 155'-8"
SERIES A505E	5	1	LENGTH VARIES FROM 3'-3" TO 21'-6" IN INC. OF 9" (25 BARS) TOTAL LENGTH = 309'-5"
SERIES A506E	5	1	LENGTH VARIES FROM 21'-1" TO 3'-0" IN INC. OF 11" (21 BARS) TOTAL LENGTH = 252'-11"
A507E	5	1	36'-8"
A508E	5	1	29'-5"
A509E	5	1	32'-8"
A510E	5	1	26'-5"
A511E	5	4	8'-0"
A512E	5	322	2'-9"
A513E	5	143	21'-11"
A700E	7	76	30'-0"
B471E	4	666	2'-10"
C400E	4	44	2'-9"
SERIES C470E	4	4	17'-6"
SERIES C471E	4	4	17'-10"
NO. 6 COUPLER	6	322	2'-10"

NOTE: ALL REINFORCING STEEL SHALL BE EPOXY COATED. THE COST OF EPOXY COATED REINFORCING STEEL TO BE INCLUDED IN ITEM NO. 604-10.18, REINFORCING STEEL (REPAIRS), LBS.



SECTION "A-A"

(SHOWING END OF OVERLAY AT EXISTING AND NEW BEAM ENDS.)

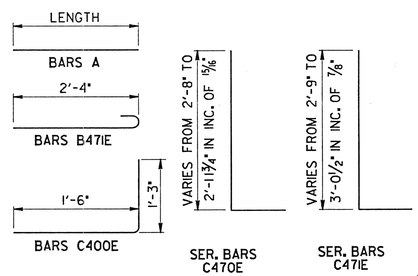


DETAIL "A"

(SHOWING CANTILEVER REINFORCEMENT)

** DENOTES: NEW CANTILEVER TO BE FORMED TO HORIZONTAL CURVE WITH VARYING OFFSETS (SHOWN THIS SHEET) FROM EXTERIOR FACE OF EXIST. BEAMS.

◒ DENOTES: WHEN POURING CANTILEVERS, PROVISIONS SHALL BE MADE FOR SETTING REINFORCING STEEL FOR PARAPET. THE PARAPET SHALL NOT BE POURED UNTIL THE CANTILEVERS ARE POURED AND CURED. SEE STD. DWG. NO. STD-1-1.



DESIGNED BY	R. LOVETT	DATE 9/96
DRAWN BY	C. GERTH	DATE 9/96
SUPERVISED BY	PETRONE	DATE 9/96
CHECKED BY	WILSON, PETRONE	DATE 9/96

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

SUPERSTRUCTURE DETAILS INTERSTATE 75 OVER INTERSTATE 24 BRIDGE NO. 33-I75-1.41 HAMILTON COUNTY 1996

ROBIN LOVETT REGISTERED PROFESSIONAL ENGINEER No. 022218 STATE OF TENNESSEE

BR-26-4

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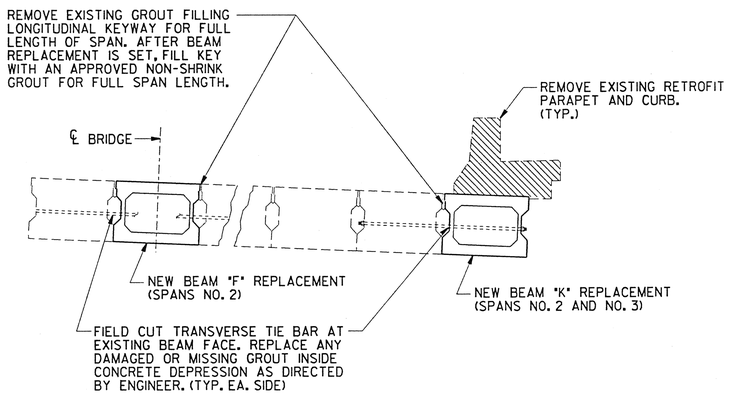
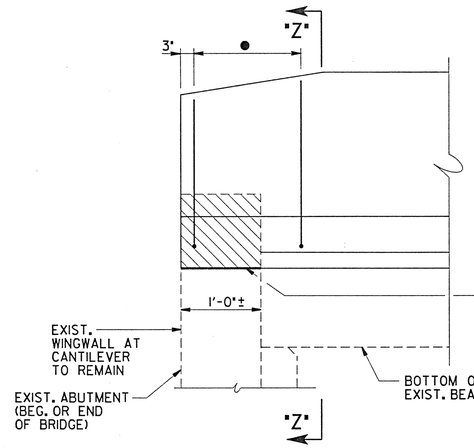


DETAIL "A"

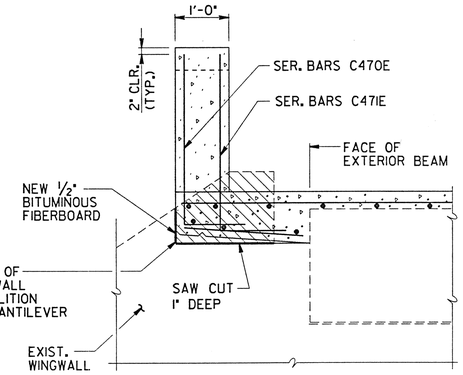
(SECTION AT INTERMEDIATE DIAPHRAGM)

▨ DENOTES: LIMITS OF REMOVAL OF THE EXISTING RETROFIT PARAPETS AND CURBS.

NOTE: DIAPHRAGMS LOCATED APPROXIMATELY AT 1/3 POINTS OF SPAN NO. 2 AND AT APPROXIMATELY THE MIDPOINT OF SPAN NO. 3.



ELEVATION VIEW OF ENDPOST



SECTION "Z-Z"

DETAIL "C"

● DENOTES: SERIES BARS C470E AND C471E 4 SPA. @ 6" = 2'-0"

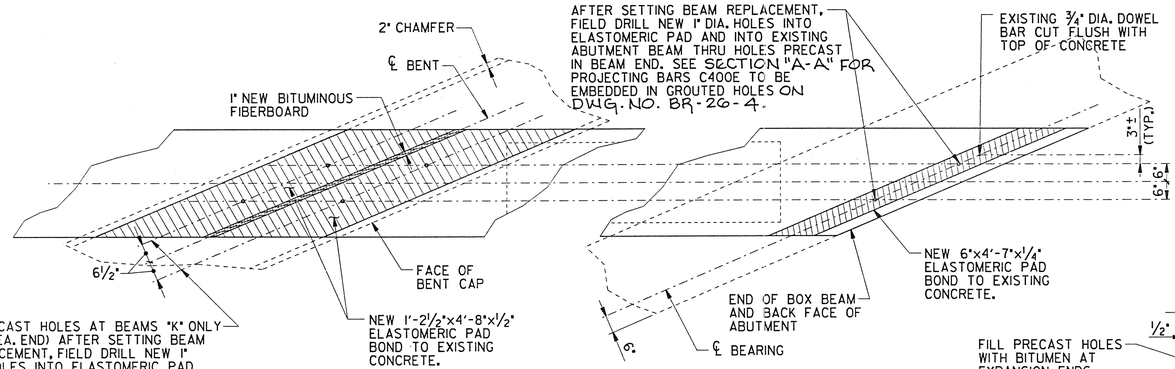
▨ DENOTES: PORTION OF EXISTING WINGWALL TO BE REMOVED. (TYP.)

NOTE: THE ENDPOST SHOWN ON STD. DWG. STD-1-1 SHALL BE MODIFIED TO BE INTEGRAL WITH SLAB AS SHOWN ABOVE. SERIES BARS A470E ARE TO BE REPLACED BY SERIES BARS C470E AND C471E. COST OF THESE BARS TO BE INCLUDED IN PRICE BID FOR ITEM NO. 604-10.18, REINFORCING STEEL (REPAIRS), LBS.

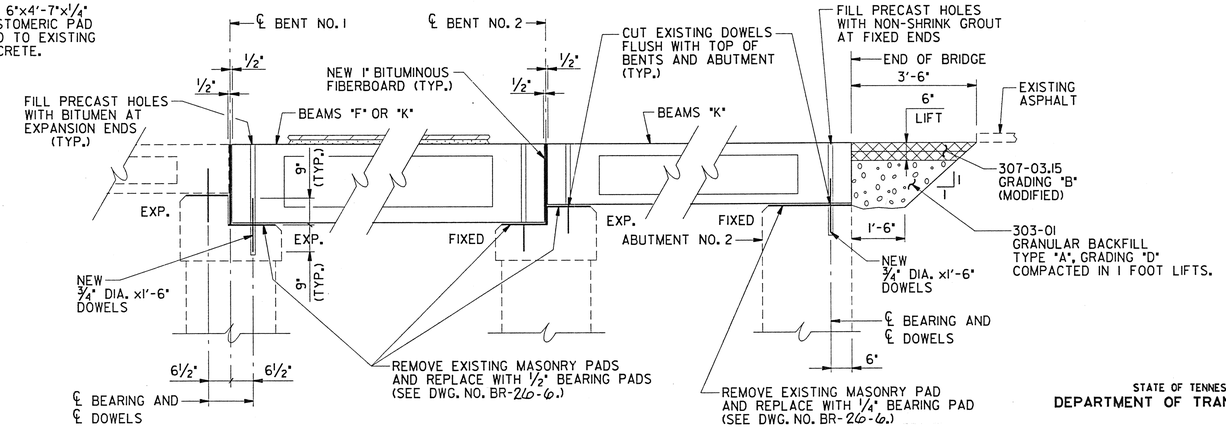
PROJECT NO.	YEAR	SHEET NO.
33004-4135-04	1996	

REVISIONS

NO.	DATE	BY	BRIEF DESCRIPTION



DETAIL "B"



SPAN NO. 2 SPAN NO. 3

SECTION "A-A"

NOTE: 1" DIA. HOLES IN ABUTMENT AND BENTS FOR NEW ANCHOR DOWELS ARE TO BE DRILLED AFTER MEMBERS ARE SET.

NOTE: COST OF TYPE "A", GRADING "D", EXCAVATION AND BACKFILL TO BE INCLUDED IN ITEM NO. 303-01, TYPE "A" GRADING "D", TON.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

SUPERSTRUCTURE DETAILS INTERSTATE 75 OVER INTERSTATE 24 BRIDGE NO. 33-I75-1.41 HAMILTON COUNTY 1996

BR-26-5

DESIGNED BY	R. LOVETT	DATE	9/96
DRAWN BY	C. GERTH	DATE	9/96
SUPERVISED BY	PETRONE	DATE	9/96
CHECKED BY	WILSON, PETRONE	DATE	9/96

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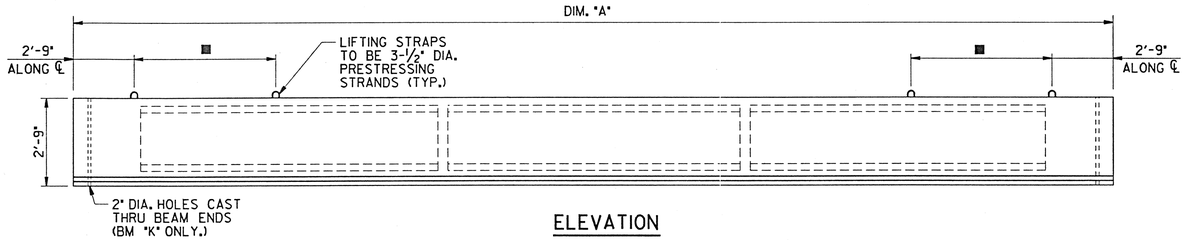
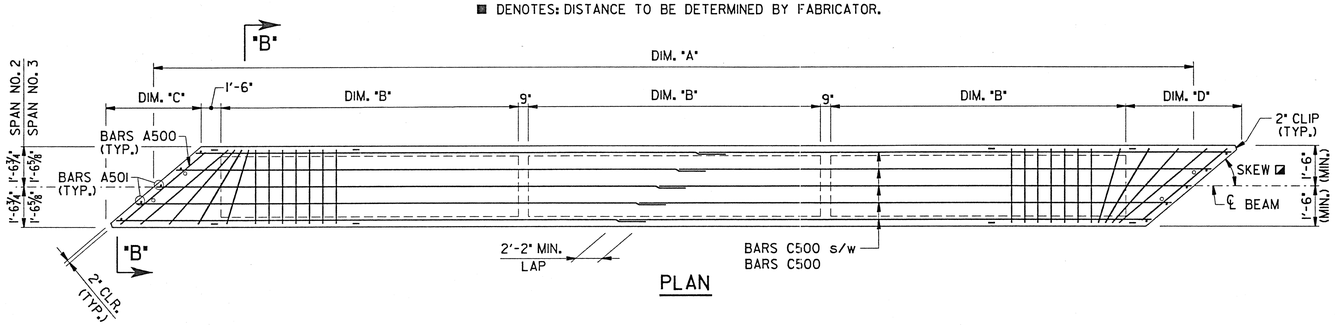
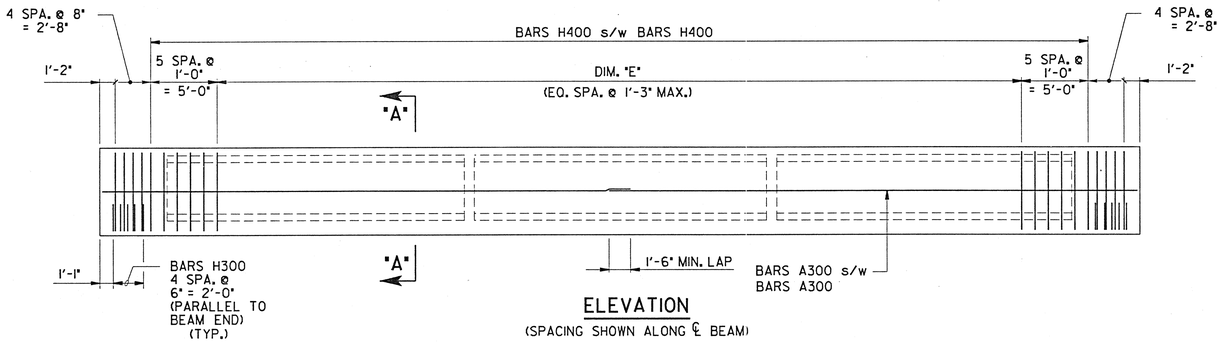


ELEVATION

■ DENOTES: DISTANCE TO BE DETERMINED BY FABRICATOR.

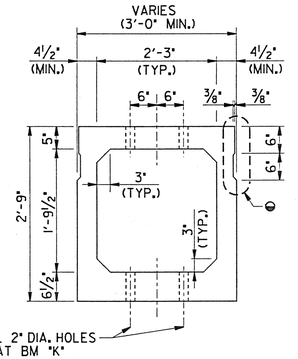


PLAN



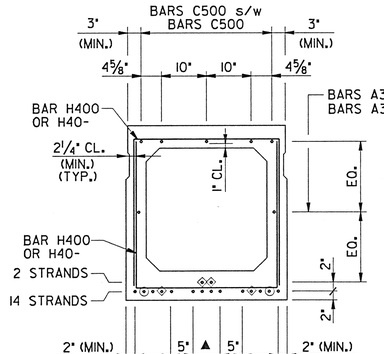
ELEVATION

(SPACING SHOWN ALONG ℄ BEAM)



SECTION SHOWING PROPERTIES

◒ DENOTES: KEY WAY ON INSIDE FACE ONLY OF BEAMS "K". (TYP.)



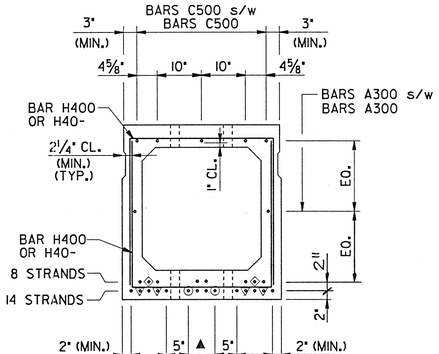
SECTION "A-A"

(SHOWING SPAN NO. 2 BM "F" STRAND PATTERN)

▲ DENOTES: 3 SPA. @ 2" = 6"

⊙ DENOTES: BREAK BOND FOR 6'-0" FROM BEAM END.

◈ DENOTES: BREAK BOND FOR 3'-0" FROM BEAM END.



SECTION "A-A"

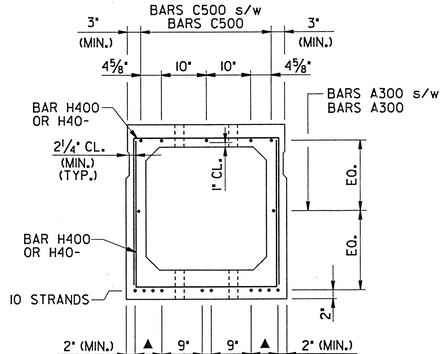
(SHOWING SPAN NO. 2, BM "K" STRAND PATTERN)

▲ DENOTES: 3 SPA. @ 2" = 6"

▽ DENOTES: BREAK BOND FOR 9'-0" FROM BEAM END.

⊙ DENOTES: BREAK BOND FOR 6'-0" FROM BEAM END.

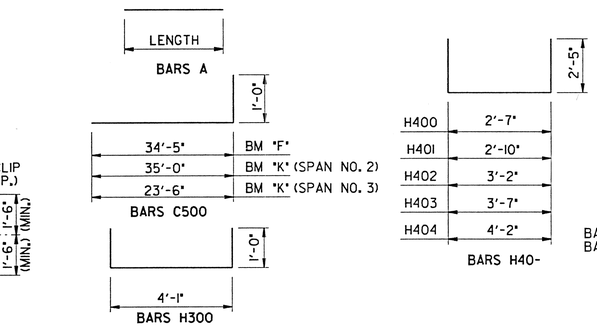
◈ DENOTES: BREAK BOND FOR 3'-0" FROM BEAM END.



SECTION "A-A"

(SHOWING SPAN NO. 3, BM "K" STRAND PATTERN)

▲ DENOTES: 3 SPA. @ 2" = 6"



ELASTOMERIC BEARING PAD DETAILS

PART-PLAN

(NARROW END, FLARED END TYP.)

BILL OF STEEL

(PER BEAM)

BAR	SIZE	BM "F"		BM "K" (SPAN NO. 2)		BM "K" (SPAN NO. 3)	
		NO. REQ'D.	LENGTH	NO. REQ'D.	LENGTH	NO. REQ'D.	LENGTH
A300	3	4	34'-1"	4	34'-7"	4	23'-2"
A500	5	8	4'-2"	8	4'-2"	8	4'- 1"
A501	5	10	2'-5"	10	2'-5"	10	2'-5"
C500	5	10	35'-5"	10	36'-0"	10	24'-6"
H300	3	10	6'-1"	10	6'-1"	10	6'-1"
H400	4	102	7'-5"	104	7'-5"	66	7'-5"
H401	4	4	7'-8"	4	7'-8"	4	7'-8"
H402	4	4	8'-0"	4	8'-0"	4	8'-0"
H403	4	4	8'-5"	4	8'-5"	4	8'-5"
H404	4	4	9'-0"	4	9'-0"	4	9'-0"

TABLE OF BEAM LENGTHS AND DIMENSIONS

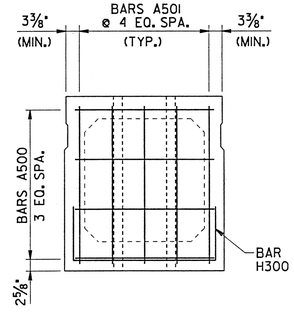
BEAM	SPAN NO.	DIMENSION					SKEW
		"A"	"B"	"C"	"D"	"E"	◪
"F"	2	66'-10½"	19'-7¼"	3'-6¼"	4'-10½"	49'-2½"	40° 01'22"
"K"	2	67'-11⅝"	19'-11⅝"	3'-7¼"	4'-11⅜"	50'-3⅝"	39° 25'09"
"K"	3	45'-1"	12'-4⅝"	3'-4¼"	4'-8¾"	27'-5"	41°10'34"

ESTIMATED QUANTITIES

(PER BEAM)

SPAN NO.	BEAM	NO. BEAMS REQ'D.	CLASS "A" CONCRETE C.Y.	REINFORCING STEEL LB.	PRESTRESSING STRANDS (LOW RELAXATION) LB.
2	"F"	1	13	1098	562
2	"K"	1	13	1114	785
3	"K"	1	9	788	237

NOTE: COST OF ELASTOMERIC PADS AND RUBBER BONDING CEMENT TO BE INCLUDED IN THE COST OF PRESTRESSED BEAM.



SECTION "B-B"

NOTES

THE CONCRETE FOR THIS CONSTRUCTION SHALL BE OF SUCH PROPERTIES AS TO ATTAIN A COMPRESSIVE STRENGTH OF NOT LESS THAN 5,400 PSI. AT THE AGE OF 28 DAYS AND STRESS TRANSFER SHALL NOT BE MADE TO THE BRIDGE MEMBER UNTIL THE TEST SPECIMENS INDICATE THAT THE CONCRETE HAS REACHED A COMPRESSIVE STRENGTH OF AT LEAST 4,000 PSI.

THE CONTRACTOR SHALL FIELD VERIFY SPAN LENGTHS AND ALL BEAM DIMENSIONS SHOWN BEFORE FABRICATING BEAMS.

SEE STD-14-3 FOR BOX BEAM STANDARD DETAILS, NOTES AND REINFORCING.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PRESTRESSED BEAM DETAILS
INTERSTATE 75
OVER
INTERSTATE 24
BRIDGE NO. 33-175-1.41
HAMILTON COUNTY
1996

PRESTRESSED BEAM DESIGN DATA PER BEAM

LIVE LOAD DISTRIBUTION FACTOR: 0.55 WHEELS
SUPERIMPOSED DEAD LOAD: 846 LB/FT BMS "K"
SUPERIMPOSED DEAD LOAD: 464 LB/FT BMS "F"

PROJECT NO.	YEAR	SHEET NO.
33004-4135-04	1996	

REVISIONS

NO.	DATE	BY	BRIEF DESCRIPTION

ROBIN LOVETT REGISTERED ENGINEER AGRICULTURE 022 STATE OF TENNESSEE

DESIGNED BY	R. LOVETT	DATE	9/96
DRAWN BY	C. GERTH	DATE	9/96
SUPERVISED BY	PETRONE	DATE	9/96
CHECKED BY	WILSON, PETRONE	DATE	9/96

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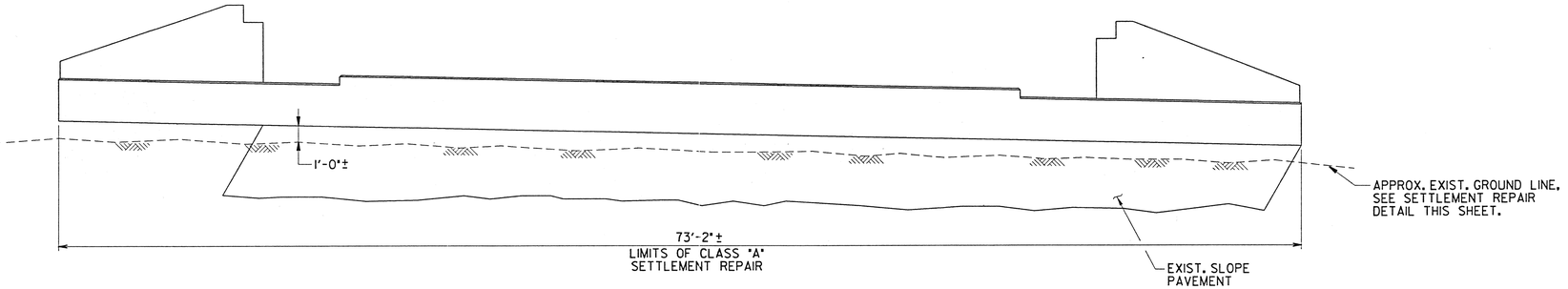
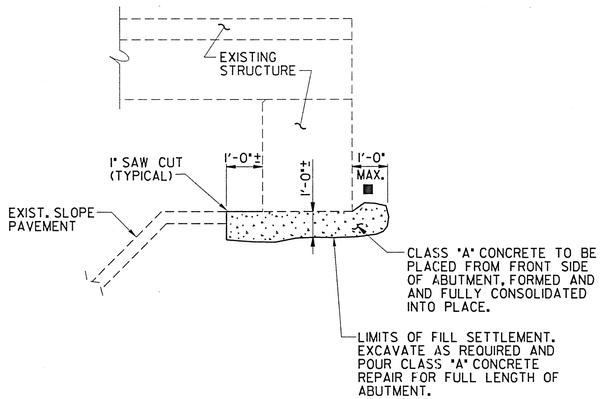
PROJECT NO.	YEAR	SHEET NO.
33004-4135-04	1996	

REVISIONS

NO.	DATE	BY	BRIEF DESCRIPTION



ELEVATION OF ABUTMENT NO. 2



FILL SETTLEMENT REPAIR DETAIL

■ DENOTES: WHEN THE SURFACE OF FILL SETTLEMENT EXTENDS FURTHER THAN 1'-0" BEHIND THE ABUTMENT, OR A VISUAL INSPECTION REVEALS THAT PORTIONS OF FILL SETTLEMENT ARE INACCESIBLE AND CANNOT BE ADEQUATELY FILLED FROM THE FRONT SIDE OF ABUTMENT; THE CONTRACTOR WILL BE REQUIRED TO EXCAVATE TO THE EROSION POCKET FROM BEHIND THE EXISTING ABUTMENT PRIOR TO PLACEMENT OF CLASS "A" CONCRETE. THE NECESSITY FOR EMBANKMENT EXCAVATION WILL BE AT THE DISCRETION OF THE ENGINEER.

NOTE: THE COST OF SAW-CUTTING, EXCAVATION (IF REQUIRED) AND CLASS "A" CONCRETE, COMPLETE AND IN PLACE AS SHOWN IN FILL SETTLEMENT REPAIR DETAIL WILL BE PAID FOR UNDER ITEM NO. 604-10.02, CONCRETE REPAIRS, C.Y.

DESIGNED BY R. LOVETT DATE 9/96
DRAWN BY G. GERTH DATE 9/96
SUPERVISED BY PETRONE DATE 9/96
CHECKED BY WILSON, PETRONE DATE 9/96

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

ABUTMENT DETAILS
INTERSTATE 75
OVER
INTERSTATE 24
BRIDGE NO. 33-I75-1.41
HAMILTON COUNTY
1996

BR-26-7