

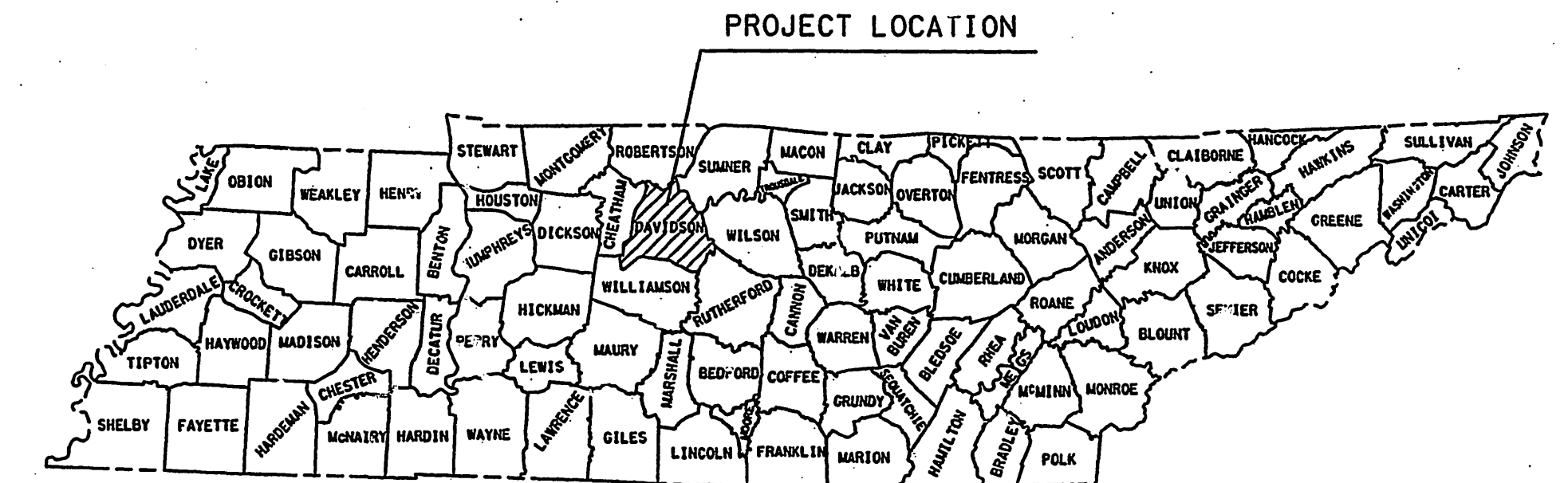
Index Of Sheets

SEE SHEET 1A FOR INDEX AND STANDARD DRAWINGS

STATE OF TENNESSEE DEPARTMENT OF TRANSPORTATION BUREAU OF ENGINEERING DAVIDSON COUNTY

SIGN REPLACEMENT
REPLACEMENT OF SIGNS ALONG
INTERSTATE 24 DOWNTOWN LOOP

STATE HIGHWAY NO. F.A.H.S. NO. 24



REFERENCE DRAWINGS

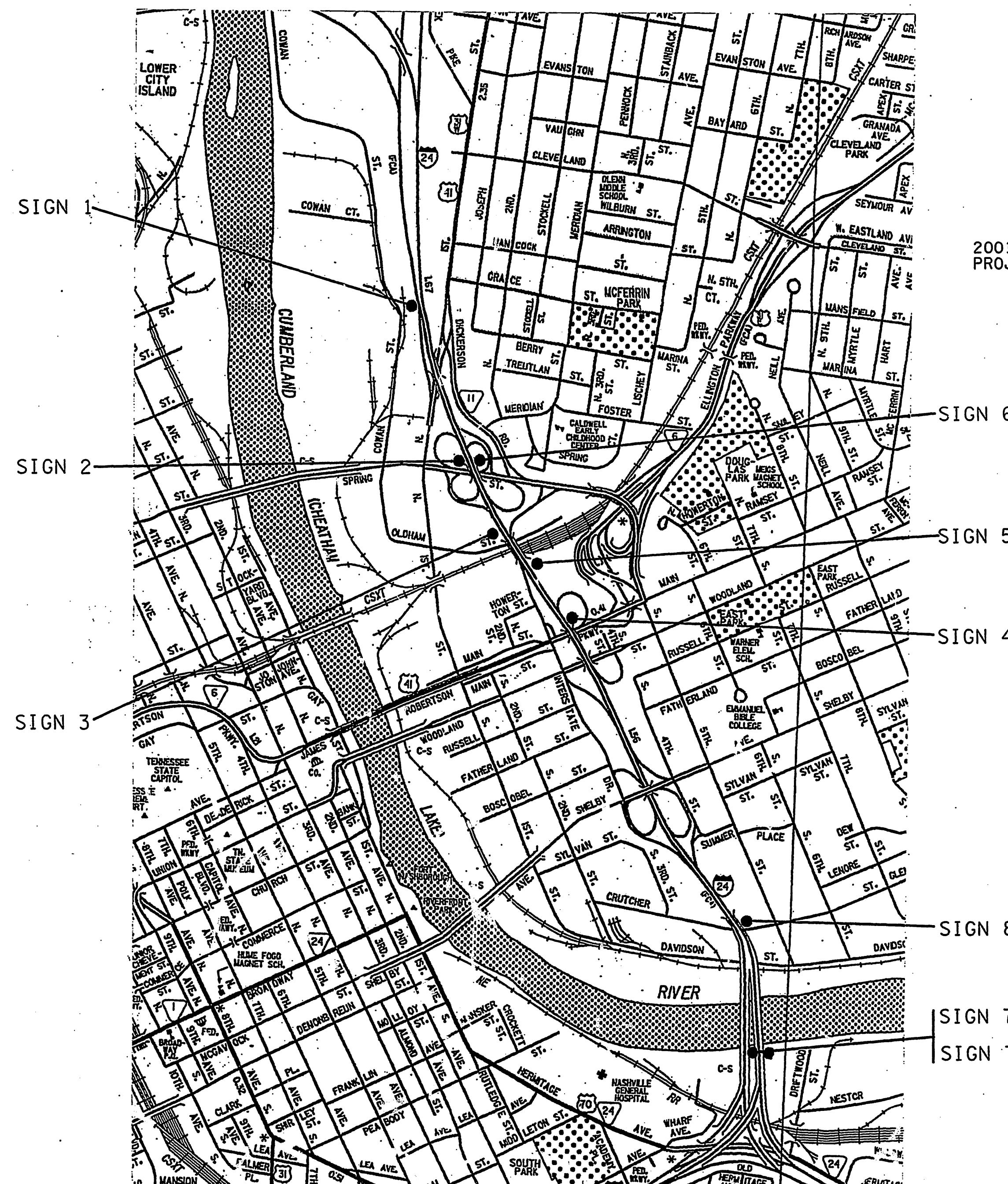
PROJECT I-IR-65-3(72)83
SHEETS 2R, 5A, 6A, 7A, 8A, 9A,
16C, 16D, 16E, 16F, 16G,
16H, 16J, 16K, 16L, 28 DRAWER IN156

PROJECT IM-098-3(6)
SHEETS 4, 8, 9, 10, 11, 12, 13 DRAWER Y-12

SHOP DRAWINGS C9397-T1, C9397-D1,
C9397-D4, C9397-D6,
C9397-E4, C9397-1,
C9397-2, C9397-5,
C9397-8, C9397-9, C9397-13 DMS SIGN AT
SIGN 4 LOCATION

M-130-54 LAYOUT OF BRIDGE BETWEEN
SIGN 3 & 5 LOCATIONS

2001 ITS
PROJECT



SPECIAL NOTES

PROPOSALS MAY BE REJECTED BY THE COMMISSIONER IF ANY OF THE UNIT PRICES
CONTAINED THEREIN ARE OBVIOUSLY UNBALANCED, EITHER EXCESSIVE OR BELOW
THE REASONABLE COST ANALYSIS VALUE.

THIS PROJECT TO BE CONSTRUCTED UNDER THE STANDARD SPECIFICATIONS OF THE
TENNESSEE DEPARTMENT OF TRANSPORTATION DATED MARCH 1, 1995 AND ADDITIONAL
SPECIFICATIONS AND SPECIAL PROVISIONS CONTAINED IN THE PLANS AND IN
THE PROPOSAL CONTRACT

CE MANAGER 1 BRIAN K. EGLI

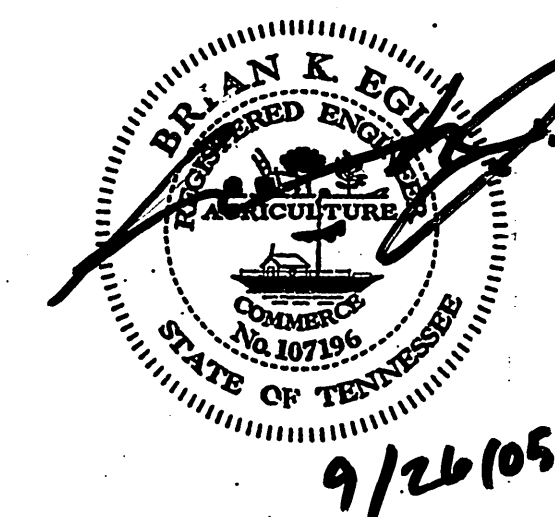
DESIGNER BRIAN K. EGLI CHECKED BY

P.E. NO. 19002-4177-04

APPROVED: Paul D. Decker
CHIEF ENGINEER

DATE:

APPROVED: Don F. Kelly
COMMISSIONER



U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION

APPROVED:
DIVISION ADMINISTRATOR DATE

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST	2006	19002-4177-04	1A

REV 1, 2/22/06, ADDED SHEET 2N

STANDARD ROADWAY DRAWINGS

INDEX

TITLE SHEET	1
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SIGN DETAIL SHEETS	2C – 2N 
PRESENT LAYOUTS	3- 5
PROPOSED LAYOUTS	6 - 10
TRAFFIC CONTROL	11 – 14

REFERENCE DRAWINGS

PROJECT I-IR-65-3(72)83	2R, 5A - 9A, 16C – 16L, 28
PROJECT IM-098-3(16)	4, 8 – 13
SHOP DRAWINGS FOR DMS #3 FROM PROJECT IM-098-3(16)	C9397-T1 C9397-D1 C9397-D4 C9397-D6 C9397-E4 C9397-1 C9397-2 C9397-5 C9397-8 C9397-9 C9397-13

LETTER 'I' NOT USED IN SHEET NUMBERS

STANDARD ROADWAY DRAWINGS TO BE
PRINTED WITH PLANS

DWG. NO.	REV.	DESCRIPTION
S-GR-11	02-22-05	W-BEAM & THRIE BEAM BARRIER RAIL AND RUB RAIL ALTERNATES
S-GR-37	05-05-05	SKT-350 (2 TUBE) POST AND ASSEMBLY DETAILS
S-GR-38	05-05-05	DETAILS FOR CONSTRUCTION OF EARTH PAD FOR TYPE 38 GUARDRAIL END TERMINALS
S-GR-38A		DETAILS FOR CONSTRUCTION OF ALTERNATE EARTH PAD FOR TYPE 38 GUARDRAIL END TERMINALS

STANDARD BRIDGE DRAWINGS

DWG. NO.	REV.	DESCRIPTION
BRIDGE APPURTENANCES ENGLISH (NEW STRUCTURES)		
STD-8-4		SIGN, LUMINAIRE, AND TRAFFIC SIGNAL SUPPORTS, 2003

ROADWAY DESIGN STANDARDS

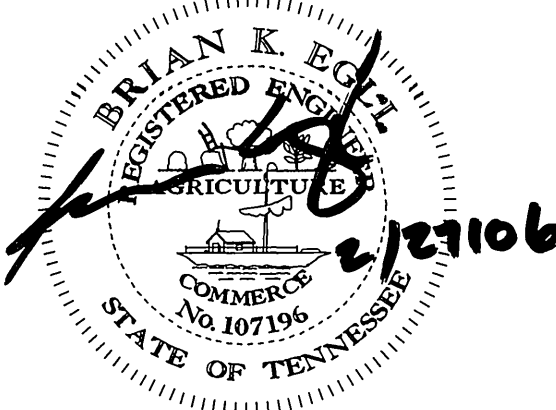
RD-A-1	12-18-99	STANDARD ABBREVIATIONS
RD-L-1	10-26-94	STANDARD LEGEND

SAFETY APPURTENANCES AND FENCE

S-GR-12	05-27-03	W-BEAM BARRIER POST DETAILS AND SPECIFICATIONS
S-GR-13	05-27-03	BARRIER RAIL MOUNTING, POST BLOCK-OUTS WITH VERTICAL ADJUSTMENT HOLES
S-GR-13A		BARRIER RAIL MOUNTING POST FOR PLASTIC BLOCK-OUTS WITH HORIZONTAL ADJUSTMENT HOLES
S-GR-14	09-05-98	W-BEAM BARRIER FASTENING HARDWARE AND BRIDGE APPROACH DELINEATORS
S-GR-15	09-05-03	W-BEAM BARRIER TERMINAL ELEMENT DETAILS
S-GR-32	05-27-03	ET-2000 GUARDRAIL TERMINAL ANCHOR (TYPE 38) POST LAYOUT AND ERECTION DETAILS
S-GR-33	02-01-99	ET-2000 (2 TUBE) GUARDRAIL ELEMENT ASSEMBLY DETAILS
S-GR-34	05-27-03	ET-2000 (2 TUBE) POST AND ASSEMBLY DETAILS
S-GR-35	05-01-03	SKT-350 GUARDRAIL TERMINAL ANCHOR (TYPE 38) POST LAYOUT AND ERECTION DETAILS
S-GR-36	05-01-03	SKT-350 (2 TUBE) GUARDRAIL ELEMENT ASSEMBLY DETAILS
S-GR-40	09-11-01	BEST GUARDRAIL TERMINAL ANCHOR (TYPE 38) POST LAYOUT AND ERECTION DETAILS
S-GR-41		BEST (2 TUBE) GUARDRAIL ELEMENT ASSEMBLY DETAILS
S-GR-42		BEST (2 TUBE) POST AND ASSEMBLY DETAILS
S-MB-1	05-27-01	CONCRETE MEDIAN BARRIER

TRAFFIC CONTROL APPURTENANCES

T-FAB-1	05-27-97	FLASHING YELLOW ARROW BOARD
T-PBR-1	02-22-04	INTERCONNECTED PORTABLE BARRIER RAIL
T-PBR-2		DETAIL FOR VERTICAL PANELS
T-S-6	02-12-91	MOUNTING DETAILS - BOLTED EXTRUDED PANELS
T-S-7	02-12-91	HIGHWAY SHIELDS USED ON INTERSTATE AND U.S. NUMBERED ROUTES
T-S-15	12-07-90	CONDUIT & GROUND DETAILS FOR OVERHEAD & CANTILEVER SIGN STRUCTURES
T-WZ-11	04-15-04	ONE LANE CLOSURE DETAIL ON DIVIDED HIGHWAYS
T-WZ-18	04-15-04	SHOULDER CLOSURE DETAIL FOR FREEWAYS AND DIVIDED HIGHWAYS



STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

INDEX
AND
STANDARD
DRAWINGS

GENERAL NOTES

GUARDRAIL

- (9)

THE CONTRACTOR SHALL NOT REMOVE ANY SECTIONS OF EXISTING GUARDRAIL TO REWORK SHOULDERS OR FLATTEN SLOPES UNTIL THE ENGINEER CONCURS IN THE NECESSITY OF REMOVAL DUE TO CONSTRUCTION REQUIREMENTS AND THE APPROPRIATE WARNING DEVICES ARE INSTALLED. THE PROPOSED GUARDRAIL, INCLUDING ANY ANCHOR SYSTEM, SHALL BE INSTALLED QUICKLY TO MINIMIZE TRAFFIC EXPOSURE TO ANY HAZARD. NO PAYMENT WILL BE MADE FOR A SECTION OF PROPOSED GUARDRAIL, INCLUDING ANCHORS, UNTIL IT IS COMPLETE IN PLACE.
- (10)

THE PROPOSED GUARDRAIL, INCLUDING ANY ANCHOR SYSTEM, SHALL BE INSTALLED QUICKLY TO MINIMIZE TRAFFIC EXPOSURE TO ANY HAZARD. NO PAYMENT WILL BE MADE FOR A SECTION OF PROPOSED GUARDRAIL, INCLUDING ANCHORS, UNTIL IT IS COMPLETE IN PLACE.
- (12)

GUARDRAIL IS TO BE COMPLETE IN PLACE BEFORE THE MAINLINE ROADWAY IS OPENED TO TRAFFIC.

UTILITIES

- (19)

THE LOCATIONS OF UTILITIES SHOWN WITHIN THESE PLANS ARE APPROXIMATE ONLY. EXACT LOCATIONS SHALL BE DETERMINED IN THE FIELD BY CONTACTING THE UTILITY COMPANIES INVOLVED. NOTIFICATION BY CALLING THE TENNESSEE ONE CALL SYSTEM, INC., AT 1-800-351-1111 AS REQUIRED BY TCA 65-31-106 WILL BE REQUIRED.
- (20)

UNLESS OTHERWISE NOTED, ALL UTILITY ADJUSTMENTS WILL BE PERFORMED BY THE UTILITY OR ITS REPRESENTATIVE. THE CONTRACTOR AND UTILITY OWNERS WILL BE REQUIRED TO COOPERATE WITH EACH OTHER IN ORDER TO EXPEDITE THE WORK REQUIRED BY THIS CONTRACT. ON CONTRACTS WHERE CONSTRUCTION STAKES, LINES, AND GRADES ARE CONTRACT ITEMS, THE CONTRACTOR WILL BE REQUIRED TO PROVIDE RIGHT-OF-WAY OR SLOPE STAKES, DITCH OR STREAM BED GRADES, OR OTHER ESSENTIAL SURVEY STAKING TO PREVENT CONFLICTS WITH THE HIGHWAY CONSTRUCTION. FREQUENTLY, THIS WILL BE REQUIRED AS THE FIRST ITEM OF WORK AND AT ANY LOCATION ON THE PROJECT DIRECTED BY THE ENGINEER.
- (21)

THE CONTRACTOR WILL PROVIDE ALL NECESSARY PROTECTIVE MEASURES TO SAFEGUARD EXISTING UTILITIES FROM DAMAGE DURING CONSTRUCTION OF THIS PROJECT. IN THE EVENT THAT SPECIAL EQUIPMENT IS REQUIRED TO WORK OVER AND AROUND THE UTILITIES, THE CONTRACTOR WILL BE REQUIRED TO FURNISH SUCH EQUIPMENT. THE COST OF PROTECTING UTILITIES FROM DAMAGE AND FURNISHING SPECIAL EQUIPMENT WILL BE INCLUDED IN THE PRICE BID FOR OTHER ITEMS OF CONSTRUCTION.
- (22)

PRIOR TO SUBMITTING HIS BID, THE CONTRACTOR WILL BE SOLELY RESPONSIBLE FOR CONTACTING OWNERS OF ALL AFFECTED UTILITIES IN ORDER TO DETERMINE THE EXTENT TO WHICH UTILITY RELOCATIONS AND/OR ADJUSTMENTS WILL HAVE UPON THE SCHEDULE OF WORK FOR THE PROJECT. WHILE SOME WORK MAY BE REQUIRED 'AROUND' UTILITY FACILITIES THAT WILL REMAIN IN PLACE, OTHER UTILITY FACILITIES MAY NEED TO BE ADJUSTED CONCURRENTLY WITH THE CONTRACTOR'S OPERATIONS. ADVANCE CLEAR CUTTING MAY BE REQUIRED BY THE ENGINEER AT ANY LOCATION WHERE CLEARING IS CALLED FOR IN THE SPECIFICATIONS AND CLEAR CUTTING IS NECESSARY FOR A UTILITY RELOCATION. ANY ADDITIONAL COST WILL BE INCLUDED IN THE UNIT PRICE BID FOR THE CLEARING ITEM SPECIFIED IN THE PLANS.
- (23)

THE CONTRACTOR SHALL NOTIFY EACH INDIVIDUAL UTILITY OWNER OF HIS PLAN OF OPERATION IN THE AREA OF THE UTILITIES. PRIOR TO COMMENCING WORK, THE CONTRACTOR SHALL CONTACT THE UTILITY OWNERS AND REQUEST THEM TO PROPERLY LOCATE THEIR RESPECTIVE UTILITY ON THE GROUND. THIS NOTIFICATION SHALL BE GIVEN AT LEAST THREE (3) BUSINESS DAYS PRIOR TO COMMENCEMENT OF OPERATIONS AROUND THE UTILITY IN ACCORDANCE WITH TCA 65-31-106.

ROAD CLOSURE NOTES

- (31)

NO LESS THAN SEVEN (7) DAYS PRIOR TO THE CLOSURE OF THE ROAD, THE CONTRACTOR SHALL NOTIFY THE FOLLOWING INDIVIDUALS OR AGENCIES COMPLETELY DESCRIBING THE AFFECTED ROADS AND THE APPROXIMATE DURATION OF THE CONSTRUCTION: THESE PARTIES INCLUDE, BUT ARE NOT LIMITED TO: (1) LOCAL LAW ENFORCEMENT OFFICE, (2) LOCAL FIRE DEPARTMENT, (3) AMBULANCE SERVICE, (4) LOCAL SCHOOL SUPERINTENDENT, (5) UNITED STATES POSTAL SERVICE, AND (6) LOCAL ROAD SUPERINTENDENT AND (7) TDOT.

SIGNING NOTES

- (66)

THE LETTERS, DIGITS, ARROWS, BORDERS, AND ALPHABET ACCESSORIES ON ALL FLAT SHEET SIGNS SHALL BE APPLIED BY SILK SCREENING PROCESS, EXCEPT THAT CUTOUT DIRECT APPLIED COPY SHALL BE USED ON ALL FLAT SHEET SIGNS WITH A GREEN BACKGROUND. THE LETTERS, DIGITS, ARROWS, BORDERS, AND ALPHABET ACCESSORIES ON ALL EXTRUDED PANEL SIGNS SHALL BE DEMOUNTABLE AND ATTACHED TO THE SIGN FACE, AS OUTLINED IN THE STANDARD SPECIFICATIONS. ALL SHIELDS ON GUIDE SIGNS SHALL BE DEMOUNTABLE AND ATTACHED TO THE SIGN FACE AS OUTLINED IN THE STANDARD SPECIFICATIONS.
- (69)

AFTER THE SIGN LOCATIONS HAVE BEEN STAKED, BUT PRIOR TO ORDERING ANY MATERIAL FOR THE SUPPORTS, THERE SHALL BE A FIELD INSPECTION AND APPROVAL BY THE REGIONAL CONSTRUCTION OFFICE.
- (70)

THE CONTRACTOR SHALL BE REQUIRED TO FURNISH LAYOUT DRAWINGS (3 SETS) OF ALL EXTRUDED PANEL SIGNS WITH SPACING OF ALL LETTERS, NUMERALS, SHIELDS, AND ARROWS. THE LAYOUT DRAWINGS SHALL BE SENT TO THE DESIGN DIVISION, SIGNING AND MARKING SECTION, SUITE 1000, J. K. POLK BUILDING, NASHVILLE, TN 37243-0350.
- (71)

ALL SIGNS MARKED "TO BE REMOVED" ARE TO BE REMOVED BY THE CONTRACTOR AND PAID FOR UNDER ITEM 713-15 AND BECOME THE PROPERTY OF THE CONTRACTOR.
- (72)

THE EXISTING FOOTINGS ARE TO BE REMOVED 6 INCHES BELOW GROUND LINE.

CONSTRUCTION WORK ZONE & TRAFFIC CONTROL NOTES

SEE SHEETS 13 THRU 16 FOR NOTES AND DETAILS.

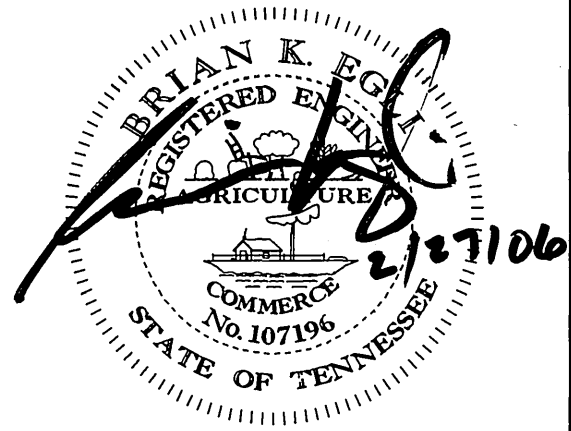
SPECIAL NOTE: THE VARIABLE MESSAGE SIGN AT THE SIGN 4 LOCATION IS DMS #3 IN THE REFERENCE DRAWINGS C9397-T1, C9397-D1, C9397-D4, C9397-D6, C9397-E4, C9397-1, C9397-2, C9397-5, C9397-8, C9397-9, C9397-13.

SPECIAL NOTE FOR ALTERNATE B: IF THE CONTRACTOR CHOOSES ALTERNATE B, THE FOOTING FOR SIGNS 1 THRU 6 SHALL BE IN THE SAME LOCATION ON THE OUTSIDE SHOULDER AS SHOWN FOR THE OVERHEAD SIGNS.



TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2006	19002-4177-04	2

REV 1, 02/22/06, ADDED NOTE



STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

GENERAL
NOTES

REV 1, 2/22/06, ADDED ITEM NO. 712-08.06,
713-10.02, 713-10.03,
713-10.04, 713-10.05,
713-10.06, 713-10.07
ADDED ALTERNATE B

FOOTNOTES:

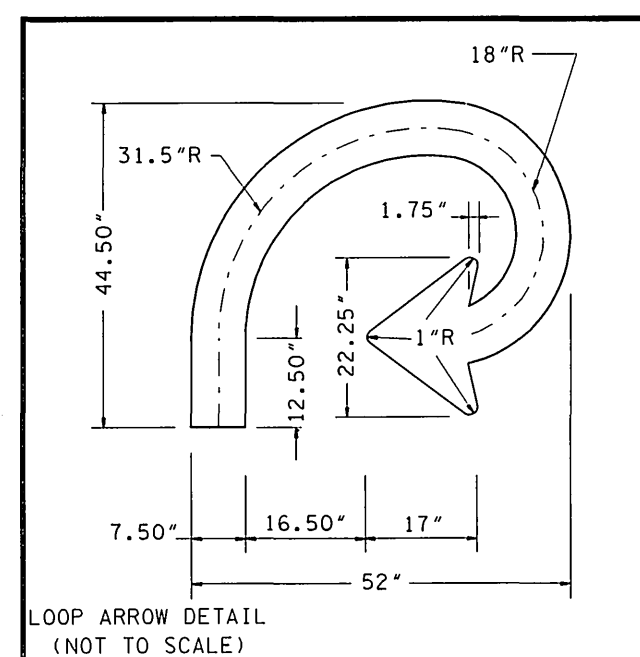
- . FOR OVERHEAD SIGNS 1, 2 & 6, AND 3
- . INCLUDES SUPPORT STRUCTURES, FOUNDATIONS, CONNECTION HARDWARE, REPAVING AND MATERIAL RESTORATION AROUND THE FOUNDATION, AND ALL WORK, EQUIPMENT, AND APPURTENCES AS REQUIRED AND TO HAVE THE STRUCTURE COMPLETE, IN PLACE, AND READY FOR USE. THIS PRICE SHALL BE FULL COMPENSATION FOR ALL LABOR, TOOLS, MATERIALS, EQUIPMENT AND INCEDENTALS NECESSARY TO COMPLETE THE WORK.
- . INCLUDES SUPPORT STRUCTURES, CONNECTION HARDWARE, AND ALL WORK, EQUIPMENT, AND APPURTENCES AS REQUIRED TO HAVE THE STRUCTURE COMPLETE, IN PLACE, AND READY FOR USE. THIS PRICE SHALL BE FULL COMPENSATION FOR ALL LABOR, TOOLS, MATERIALS, EQUIPMENT AND INCEDENTALS NECESSARY TO COMPLETE THE WORK.
- . FOR SIGN 2 LOCATION, SEE SHEET 7, DETAIL B.
- . REMOVE EXISTING CANILEVER SIGN STRUCTURES, FOOTINGS AND SOME EXISTING SIGN FACES. CONTRACTOR IS TO USE EXTREME CARE WHEN REMOVING SIGNS SO AS NOT TO DAMAGE THE SIGNS THAT ARE TO BE RELOCATED.
 - A. SIGN 4 IS ONLY THE REMOVAL OF FOOTING, CANTILEVER SUPPORT HAS BEEN REMOVED. SIGN 4 ALSO INCLUDES ANY REMOVAL INVOLVED WITH THE VARIABLE MESSAGE SIGN. THE EXISTING VARIABLE MESSAGE SIGN (VMS) IS TO BE REMOVED AND PROPOSED FOR REMOUNTING ON THE MODIFIED OVERHEAD SIGN SUPPORT. THE CONTRACTOR MUST USE EXTREME CARE WHEN REMOVING AND STORING THE VMS. DAMAGE TO THE VMS OR FIBER-OPTIC LINE WILL BE REPAIRED/REPLACED AT THE CONTRACTOR'S EXPENSE.
 - B. SIGN 7A, 7B, AND 8 DO NOT INCLUDE FOOTING REMOVAL. THESE SIGN STRUCTURES ARE MOUNTED ON THE SILLIMAN-EVANS BRIDGE.
- . EXISTING SIGN FACES TO BE RELOCATED ON NEW OVERHEAD SIGN STRUCTURES. SEE SHEETS 3, 4, AND 5 FOR SIGNS THAT ARE TO BE RELOCATED.
- . SEE SHEET 2B FOR NEW EXTRUDED PANEL SIGNS
- . INCLUDES COST OF MODIFYING EXISTING VARIABLE MESSAGE SIGN OVERHEAD SUPPORTS
- . SEE SHEET 12 FOR ADDITIONAL DETAILS.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

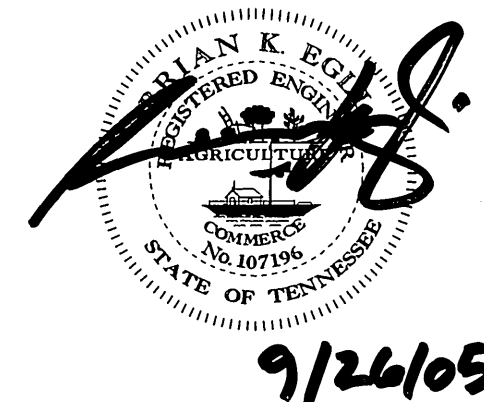
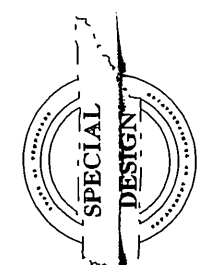
ESTIMATED QUANTITIES

- SEE STD. DWG. NO. T-S-19

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2006	19002-4177-04	2B

[illegible]

\$\$\$\$SYTIME\$\$\$\$
 \$\$\$\$DGN\$SPEC\$\$\$\$



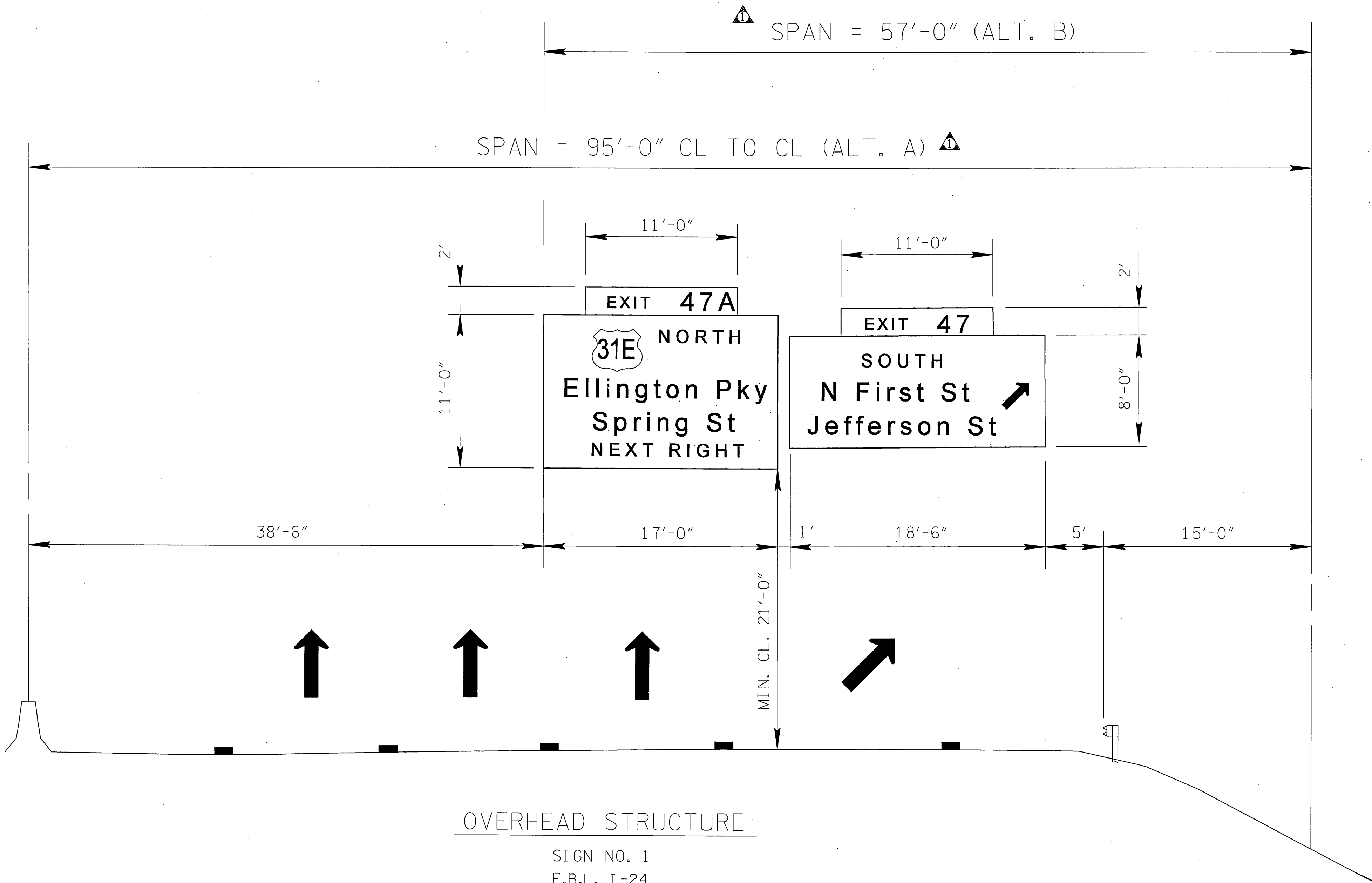
9/26/05

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

SIGN SCHEDULE

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2006	19002-4177-04	2C

REV.1, 2/22/06, ADDED ALTERNATE B
REVISED NOTES



SIGN STRUCTURE
ID NUMBER
19SIGN003833

DESIGN DATA
SIGN DESIGN AREA = 528 sq. ft.

NOTE: CONTRACTOR SHALL USE CARE TO NOT DAMAGE THE EXISTING SIGN PANELS.
EXISTING SIGN PANELS ARE TO BE USED ON NEW SIGN SUPPORT.

THE CONTRACTOR SHALL REFER TO STANDARD BRIDGE DRAWING "STD-8-4". IF THIS DRAWING IS NOT LISTED IN THE PLANS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING THIS STANDARD. (THIS STANDARD DRAWING CAN BE FOUND ON THE INTERNET WEBSITE UNDER, "TDOT SERVICES INDEX" AND THEN "STANDARD DRAWINGS".)

IF CONTRACTOR IS USING ALTERNATE B, THE CONTRACTOR SHALL REFER TO SHEET 2N.

NOTE: PRIOR TO ORDERING ANY MATERIAL,
THE CONTRACTOR SHALL FIELD CHECK
THIS SIGN STRUCTURE TO VERIFY SPAN
LENGTHS

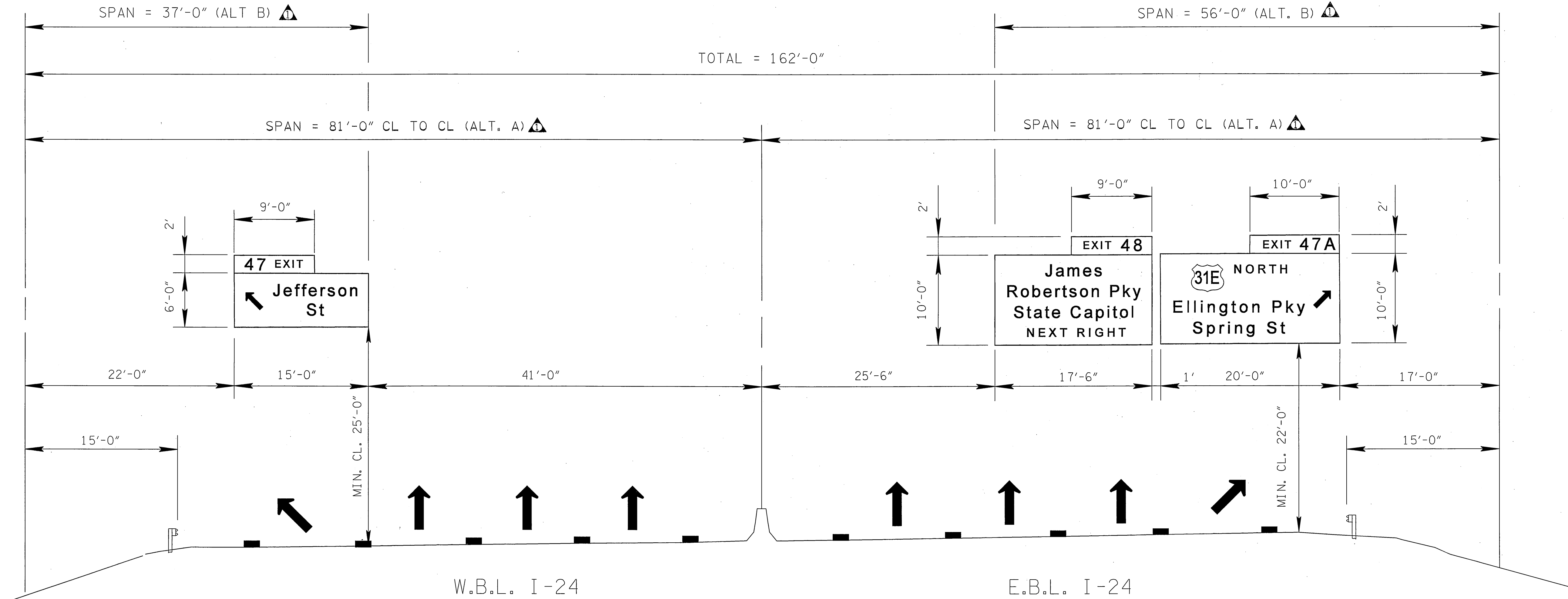
THE COST OF THE FOOTINGS ARE INCLUDED
IN THE BID ITEM FOR THIS SIGN STRUCTURE.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

OVERHEAD SIGN SKETCH
SIGN 1
I-24
DOWNTOWN LOOP
DAVIDSON COUNTY
2006

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2006	19002-4177-04	2D

REV.1, 2/22/06, ADDED ALTERNATE B
REVISED NOTES



OVERHEAD STRUCTURE

SIGN NO. 2 & 6
E.B.L. & W.B.L. I-24

DESIGN DATA

SIGN DESIGN AREA = 960 sq. ft.

NOTE: CONTRACTOR SHALL USE CARE TO NOT DAMAGE THE EXISTING SIGN PANELS.
EXISTING SIGN PANELS ARE TO BE USED ON NEW SIGN SUPPORT.

IF USING ALT. B, SIGN 2 SHALL HAVE THE SIGN
STRUCTURE ID NUMBER 19SIGN002023 AND
SIGN 6 SHALL HAVE THE THE SIGN STRUCTURE
ID NUMBER 19SIGN002503.

THE CONTRACTOR SHALL REFER TO STANDARD BRIDGE DRAWING
"STD-8-4". IF THIS DRAWING IS NOT LISTED IN THE PLANS, THE
CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING THIS
STANDARD. (THIS STANDARD DRAWING CAN BE FOUND ON THE
INTERNET WEBSITE UNDER, "TDOT SERVICES INDEX" AND THEN
"STANDARD DRAWINGS".)

IF CONTRACTOR IS USING ALTERNATE B, THE CONTRACTOR SHALL REFER
TO SHEET 2N.

SIGN STRUCTURE
ID NUMBER
19SIGN002503

DO NOT USE SIGN NO. 19SIGN002023

ALTERNATE A

NOTE: PRIOR TO ORDERING ANY MATERIAL,
THE CONTRACTOR SHALL FIELD CHECK
THIS SIGN STRUCTURE TO VERIFY SPAN
LENGTHS

THE COST OF THE FOOTINGS ARE INCLUDED
IN THE BID ITEM FOR THIS SIGN STRUCTURE.



STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

OVERHEAD SIGN SKETCH
SIGNS 2&6
I-24
DOWNTOWN LOOP
DAVIDSON COUNTY
2006

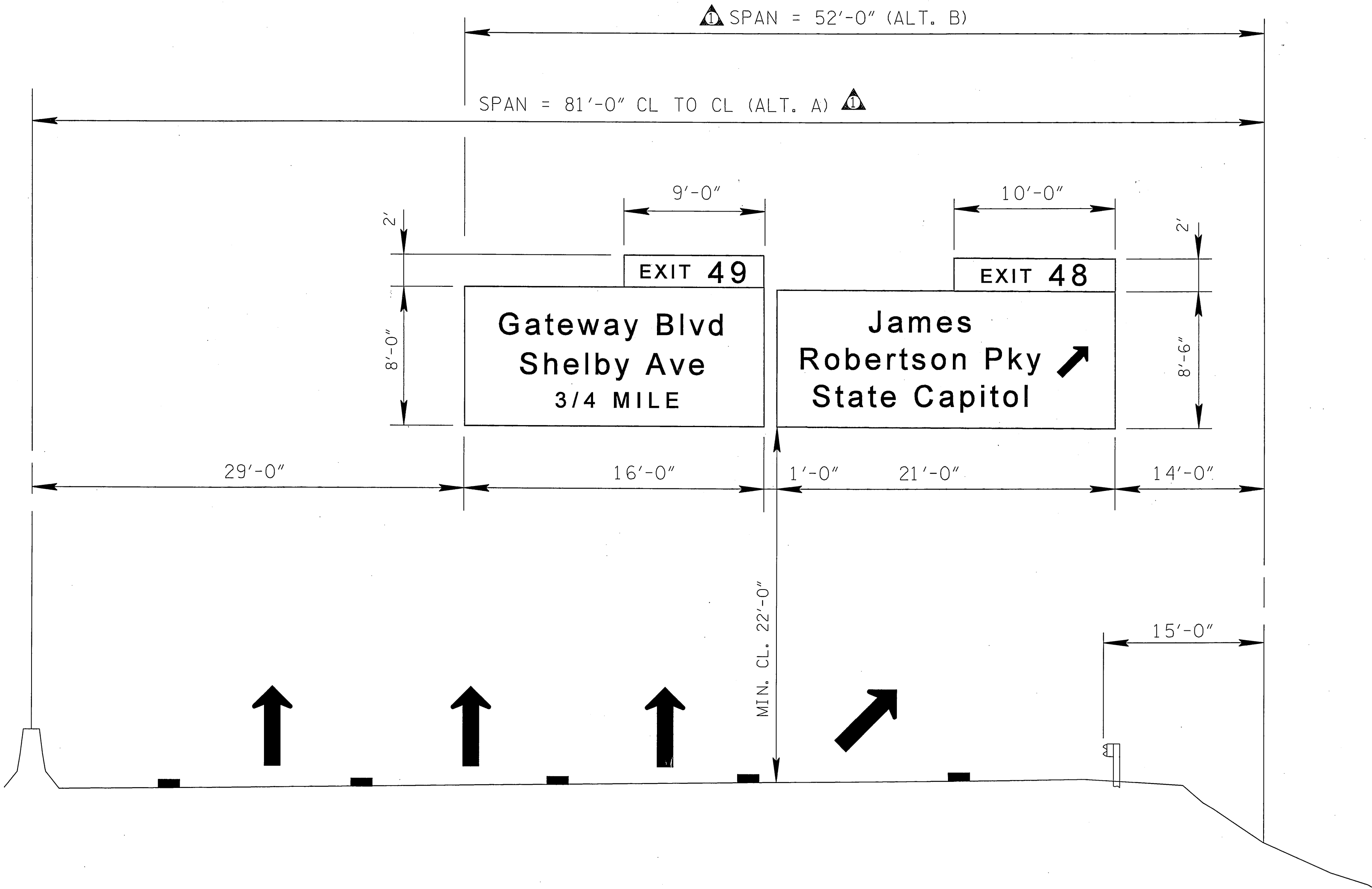
TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2006	19002-4177-04	2E

REV.1, 2/22/06, ADDED ALTERNATE B
REVISED NOTES



NOTE: CONTRACTOR SHALL USE CARE TO NOT DAMAGE THE EXISTING SIGN PANELS.
EXISTING SIGN PANELS ARE TO BE USED ON NEW SIGN SUPPORT. SEE SHEET 2B
FOR SIGN SCHEDULE.

GATEWAY BLVD, SHELBY AVE, ¾ MILE IS A NEW SIGN TO BE MOUNTED ON THE NEW
SIGN SUPPORT.



OVERHEAD STRUCTURE

SIGN NO. 3
E.B.L. I-24

DESIGN DATA

SIGN DESIGN AREA = 408 sq. ft.

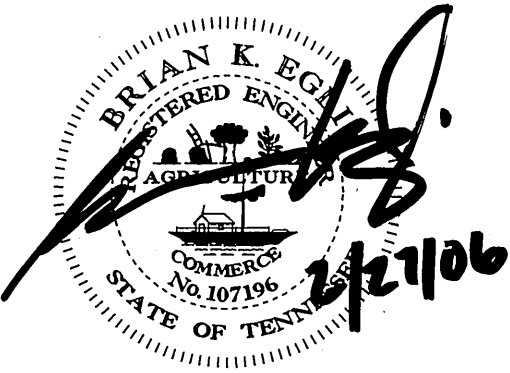
THE CONTRACTOR SHALL REFER TO STANDARD BRIDGE DRAWING
"STD-8-4". IF THIS DRAWING IS NOT LISTED IN THE PLANS, THE
CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING THIS
STANDARD. (THIS STANDARD DRAWING CAN BE FOUND ON THE
INTERNET WEBSITE UNDER, "TDOT SERVICES INDEX" AND THEN
"STANDARD DRAWINGS".)



IF CONTRACTOR IS USING ALTERNATE B, THE CONTRACTOR SHALL REFER
TO SHEET 2N.

NOTE: PRIOR TO ORDERING ANY MATERIAL,
THE CONTRACTOR SHALL FIELD CHECK
THIS SIGN STRUCTURE TO VERIFY SPAN
LENGTHS

THE COST OF THE FOOTINGS ARE INCLUDED
IN THE BID ITEM FOR THIS SIGN STRUCTURE.



STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

OVERHEAD SIGN SKETCH

SIGN 3

I-24
DOWNTOWN LOOP
DAVIDSON COUNTY
2006

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2006	19002-4177-04	2F

REV.1, 2/22/06, ADDED ALTERNATE B
REVISED NOTES

NOTE: SEE SHEET 2B FOR SIGN SCHEDULE.

NOTE: PRIOR TO ORDERING ANY MATERIAL,
THE CONTRACTOR SHALL FIELD CHECK
THIS SIGN STRUCTURE TO VERIFY SPAN
LENGTHS.

THE COST OF MODIFYING THE EXISTING
VARIABLE MESSAGE SIGN SUPPORT IS
INCLUDED IN BID ITEM FOR THIS SIGN
STRUCTURE.

THE COST OF THE FOOTINGS ARE INCLUDED
IN THE BID ITEM FOR THIS SIGN STRUCTURE.

EXISTING VARIABLE MESSAGE SIGN SUPPORT
TO BE MODIFIED TO INCLUDE THE OVERHEAD
SIGN SUPPORT OVER THE WESTBOUND LANES.
FOR INFORMATION ABOUT THE EXISTING
OVERHEAD SIGN SEE SHOP DRAWINGS:

C9397-T1,C9397-D1,
C9397-D4,C9397-D6,
C9397-E4,C9397-1,
C9397-2,C9397-5,
C9397-8,C9397-9,C9397-13

ALTERNATE A

⚠ IF USING ALT. B, SIGN 4 SHALL HAVE THE SIGN
STRUCTURE ID NUMBER 19SIGN001973 AND NOT
USE THE SIGN STRUCTURE ID NUMBER 19SN02414813.

SIGN STRUCTURE
ID NUMBER
19SN02414813

DO NOT USE SIGN NO. 19SIGN001973

ALTERNATE A

OVERHEAD STRUCTURE

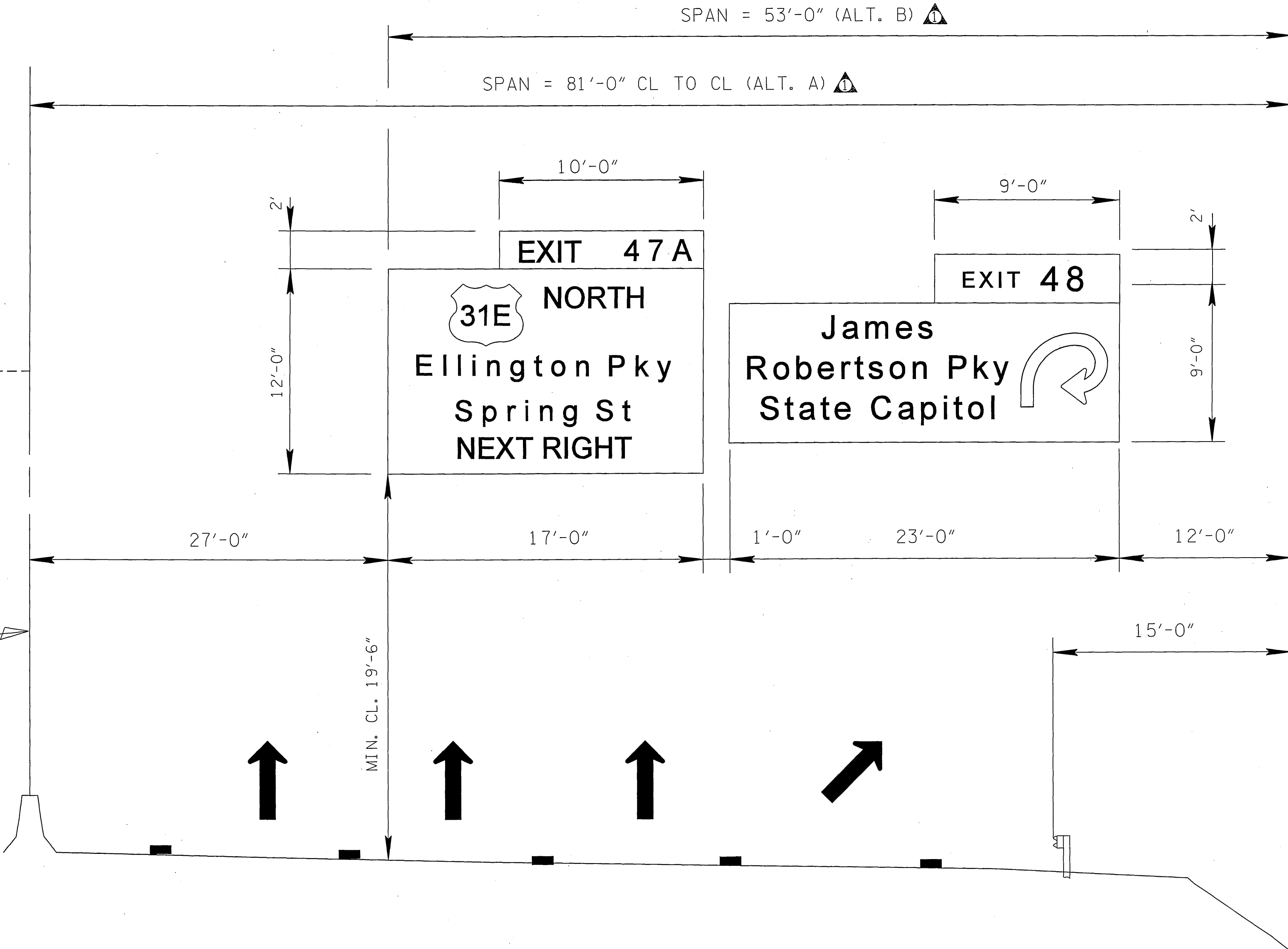
SIGN NO. 4
W.B.L. I-24

DESIGN DATA

SIGN DESIGN AREA = 576 sq. ft.

THE CONTRACTOR SHALL REFER TO STANDARD BRIDGE DRAWING
"STD-8-4". IF THIS DRAWING IS NOT LISTED IN THE PLANS, THE
CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING THIS
STANDARD. (THIS STANDARD DRAWING CAN BE FOUND ON THE
INTERNET WEBSITE UNDER, "TDOT SERVICES INDEX" AND THEN
"STANDARD DRAWINGS".)

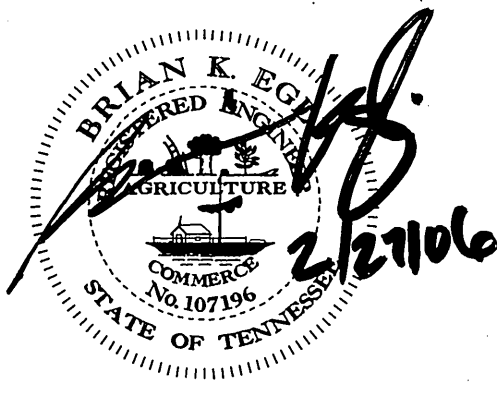
⚠ IF CONTRACTOR IS USING ALTERNATE B, THE CONTRACTOR SHALL REFER
TO SHEET 2N.



IF REQUIRED:

THE EXISTING VARIABLE MESSAGE SIGN (VMS) IS TO BE REMOVED AND PROPERLY STORED
FOR REMOUNTING ON THE MODIFIED OVERHEAD SIGN SUPPORT. THE CONTRACTOR IS TO USE
EXTREME CARE WHEN REMOVING AND STORING THE VMS. DAMAGE TO THE VMS, POWER LINE,
OR FIBER-OPTIC LINE WILL BE REPAIRED/REPLACED AT THE CONTRACTOR'S EXPENSE.

ALTERNATE A



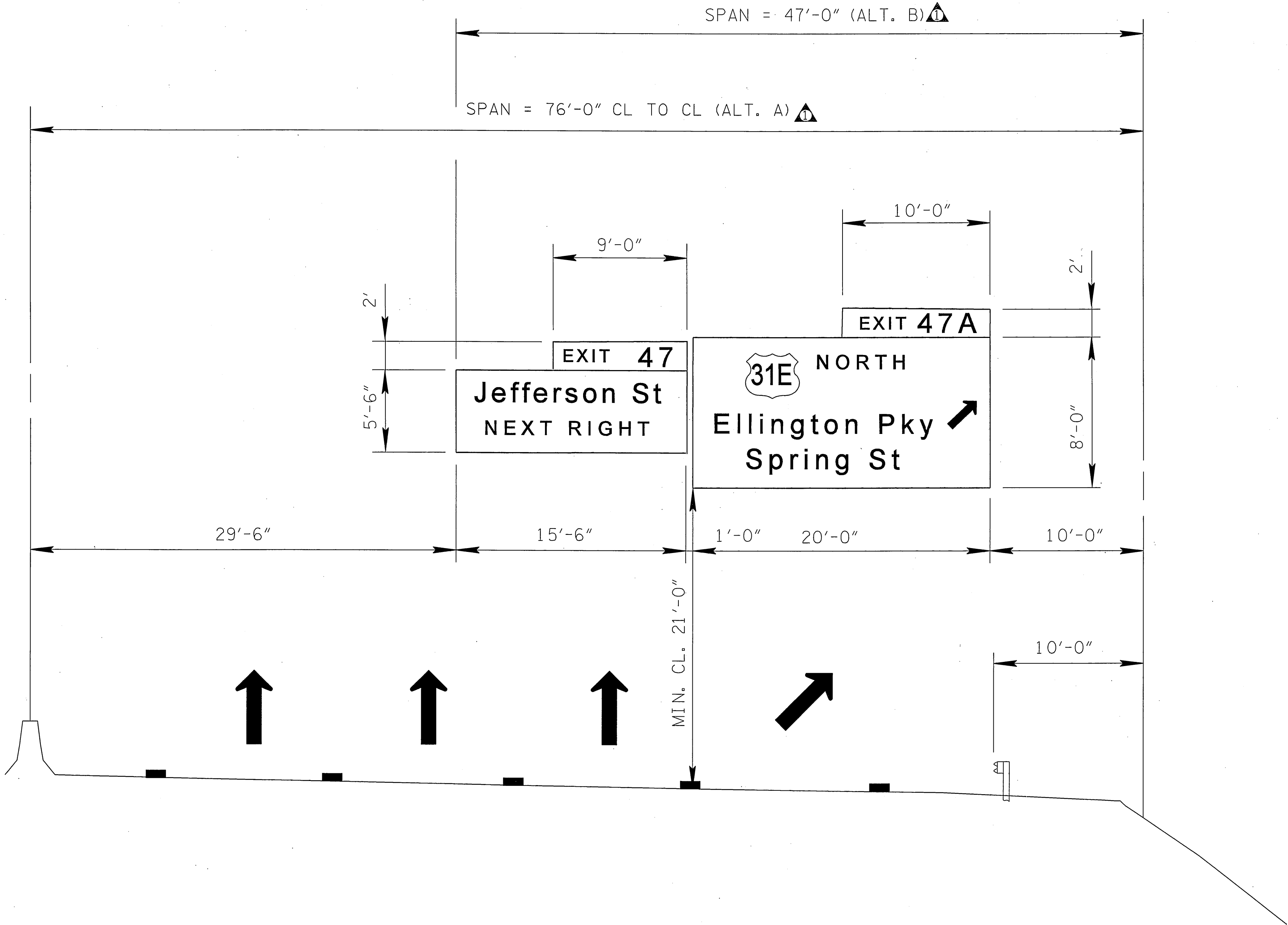
STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

OVERHEAD SIGN SKETCH
SIGN 4
I-24
DOWNTOWN LOOP
DAVIDSON COUNTY
2006

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2006	19002-4177-04	2G

REV.1, 2/22/06, ADDED ALTERNATE B
REVISED NOTES

NOTE: CONTRACTOR SHALL USE CARE TO NOT DAMAGE THE EXISTING SIGN PANELS.
EXISTING SIGN PANELS ARE TO BE USED ON NEW SIGN SUPPORT.



OVERHEAD STRUCTURE

SIGN NO. 5
W.B.L. I-24

DESIGN DATA

SIGN DESIGN AREA = 384 sq. ft.

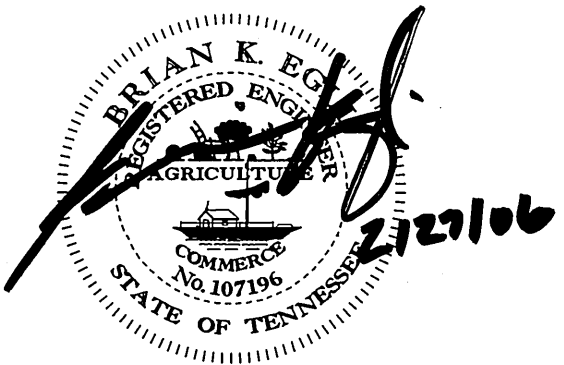
SIGN STRUCTURE
ID NUMBER
19SIGN001983

THE CONTRACTOR SHALL REFER TO STANDARD BRIDGE DRAWING "STD-8-4". IF THIS DRAWING IS NOT LISTED IN THE PLANS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING THIS STANDARD. (THIS STANDARD DRAWING CAN BE FOUND ON THE INTERNET WEBSITE UNDER, "TDOT SERVICES INDEX" AND THEN "STANDARD DRAWINGS".)

IF CONTRACTOR IS USING ALTERNATE B, THE CONTRACTOR SHALL REFER TO SHEET 2N.

NOTE: PRIOR TO ORDERING ANY MATERIAL, THE CONTRACTOR SHALL FIELD CHECK THIS SIGN STRUCTURE TO VERIFY SPAN LENGTHS

THE COST OF THE FOOTINGS ARE INCLUDED IN THE BID ITEM FOR THIS SIGN STRUCTURE.



STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

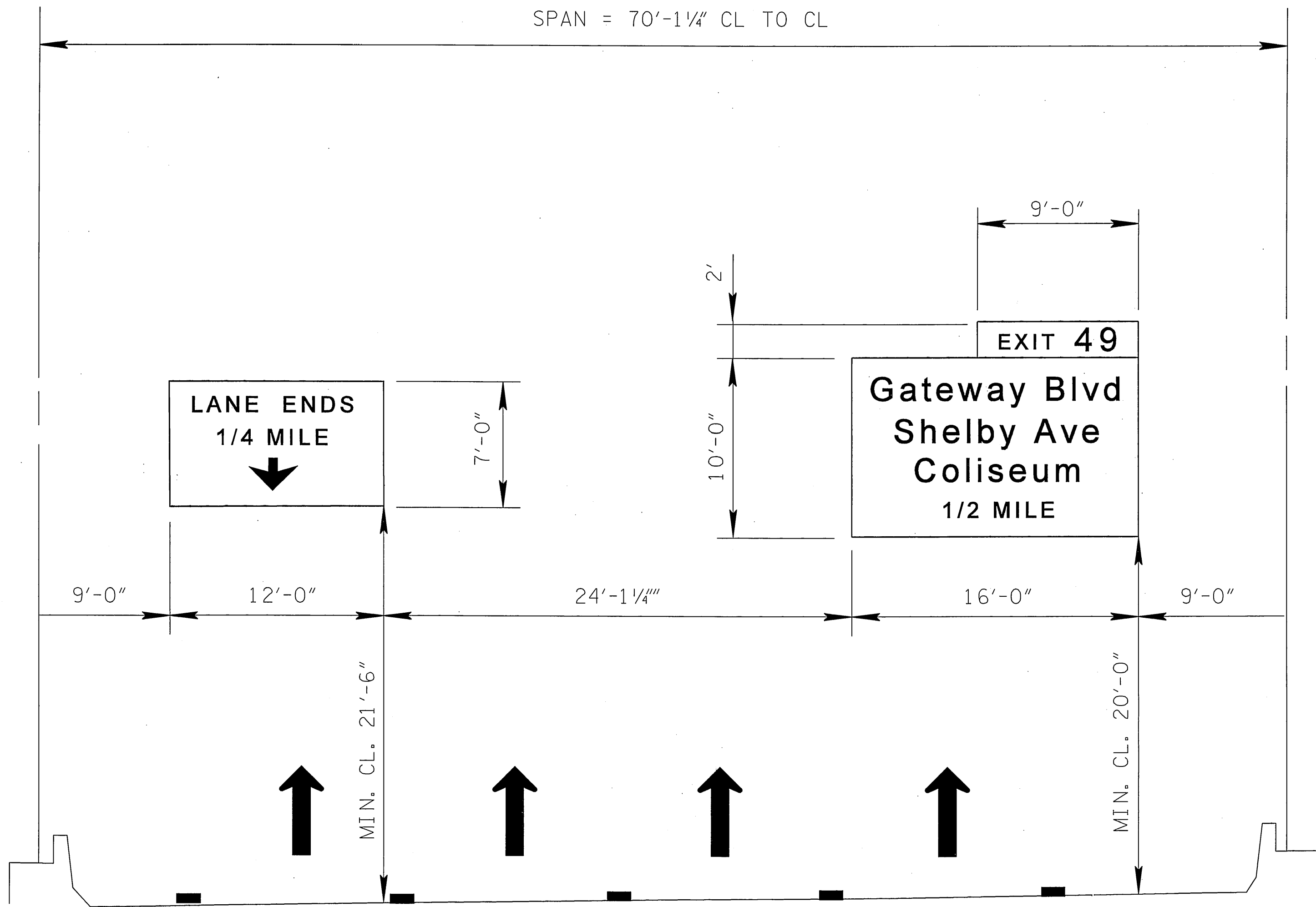
OVERHEAD SIGN SKETCH
SIGN 5
I-24
DOWNTOWN LOOP
DAVIDSON COUNTY
2006

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2006	19002-4177-04	2H

REV 1, 02/22/06, ADDED NOTE

NOTE: CONTRACTOR SHALL USE CARE TO NOT DAMAGE THE EXISTING SIGN PANELS.
EXISTING SIGN PANELS ARE TO BE USED ON NEW OVERHEAD SIGN SUPPORT.

GATEWAY BLVD, SHELBY AVE, COLISEUM, 1/2 MILE IS A NEW SIGN TO BE MOUNTED ON THE NEW OVERHEAD SIGN SUPPORT. SEE SHEET 2B FOR SIGN SCHEDULE.



OVERHEAD STRUCTURE

SIGN NO. 7A & 7B
W.B.L. I-24

DESIGN DATA

SIGN DESIGN AREA = 480 sq. ft.

SIGN STRUCTURE
ID NUMBER
19SIGN001943

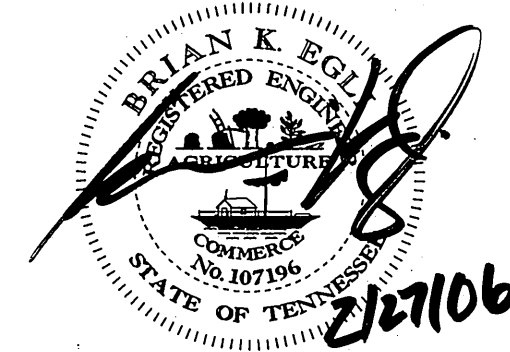
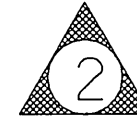
DO NOT USE SIGN NO. 19SIGN001953

THE CONTRACTOR SHALL REFER TO STANDARD BRIDGE DRAWING "STD-8-4". IF THIS DRAWING IS NOT LISTED IN THE PLANS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING THIS STANDARD. (THIS STANDARD DRAWING CAN BE FOUND ON THE INTERNET WEBSITE UNDER, "TDOT SERVICES INDEX" AND THEN "STANDARD DRAWINGS".)

NOTE: PRIOR TO ORDERING ANY MATERIAL, THE CONTRACTOR SHALL FIELD CHECK THIS SIGN STRUCTURE TO VERIFY SPAN LENGTHS

THE COST OF THE FOOTINGS ARE INCLUDED IN THE BID ITEM FOR THIS SIGN STRUCTURE.

FOR USE WITH ALTERNATE A AND B



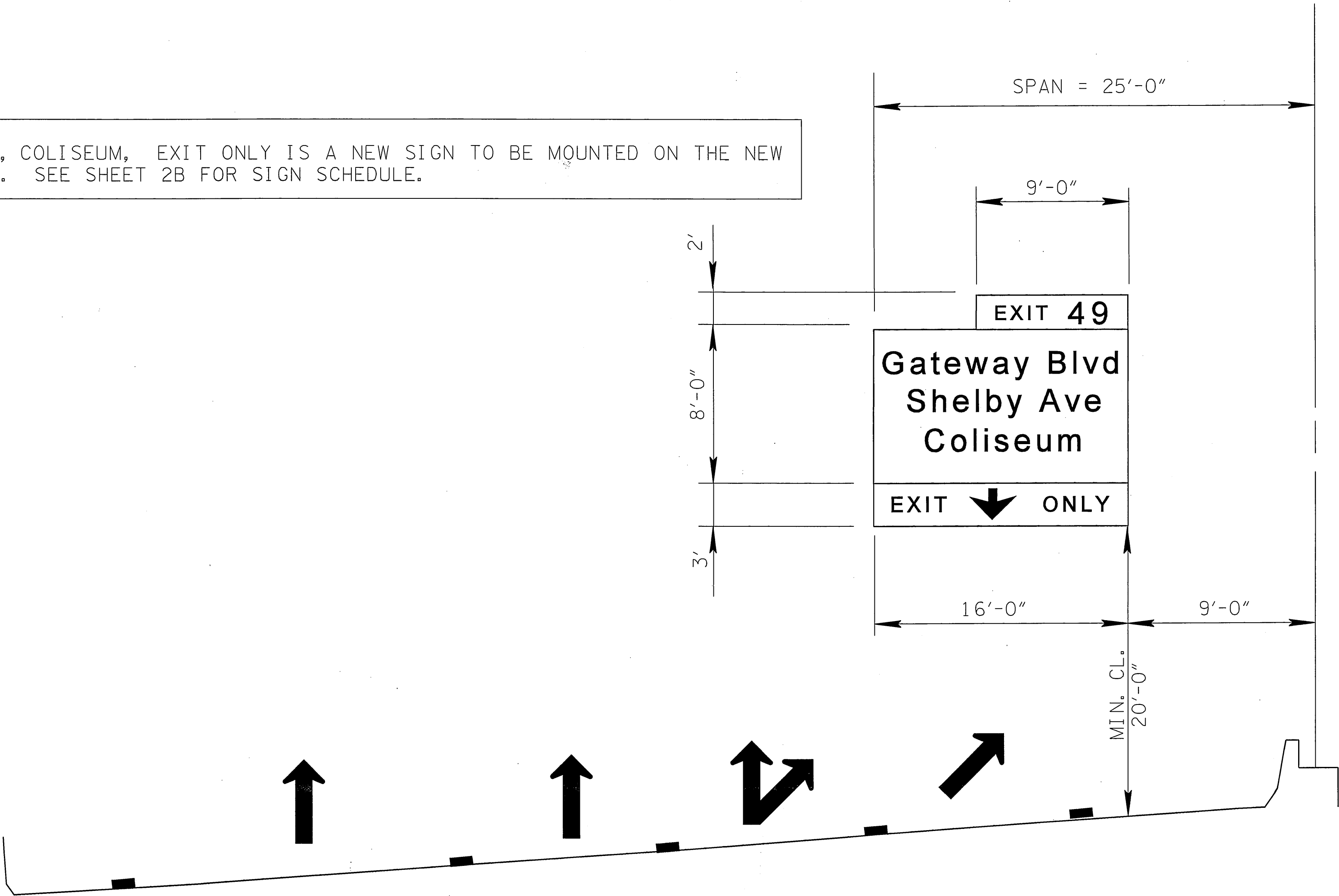
STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

OVERHEAD SIGN SKETCH
SIGNS 7A & 7B
I-24
DOWNTOWN LOOP
DAVIDSON COUNTY
2006

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2006	19002-4177-04	2J

REV 1, 02/22/06, ADDED NOTE

NOTE: GATEWAY BLVD, SHELBY AVE, COLISEUM, EXIT ONLY IS A NEW SIGN TO BE MOUNTED ON THE NEW CANTILEVER SIGN SUPPORT. SEE SHEET 2B FOR SIGN SCHEDULE.



CANTILEVER STRUCTURE

SIGN NO. 8
W.B.L. I-24

DESIGN DATA

SIGN DESIGN AREA = 192 sq. ft.

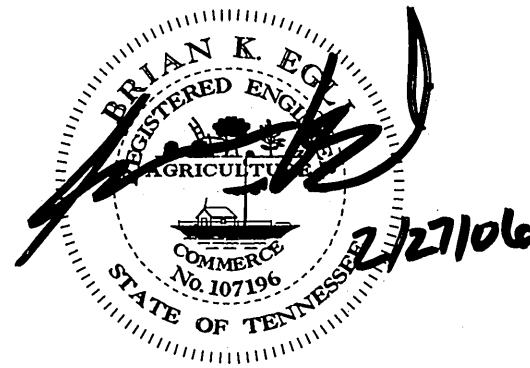
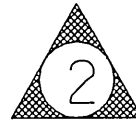
SIGN STRUCTURE
ID NUMBER
19SIGN001933

THE CONTRACTOR SHALL REFER TO STANDARD BRIDGE DRAWING "STD-8-4". IF THIS DRAWING IS NOT LISTED IN THE PLANS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING THIS STANDARD. (THIS STANDARD DRAWING CAN BE FOUND ON THE INTERNET WEBSITE UNDER, "TDOT SERVICES INDEX" AND THEN "STANDARD DRAWINGS".)

NOTE: PRIOR TO ORDERING ANY MATERIAL, THE CONTRACTOR SHALL FIELD CHECK THIS SIGN STRUCTURE TO VERIFY SPAN LENGTHS

THE COST OF THE FOOTINGS ARE INCLUDED IN THE BID ITEM FOR THIS SIGN STRUCTURE.

FOR USE WITH ALTERNATE A AND B



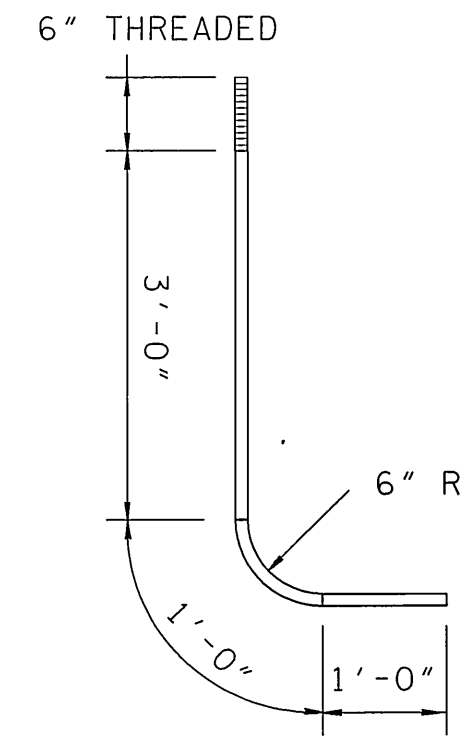
STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

CANTILEVER SIGN SKETCH

SIGN 8
I-24
DOWNTOWN LOOP
DAVIDSON COUNTY
2006

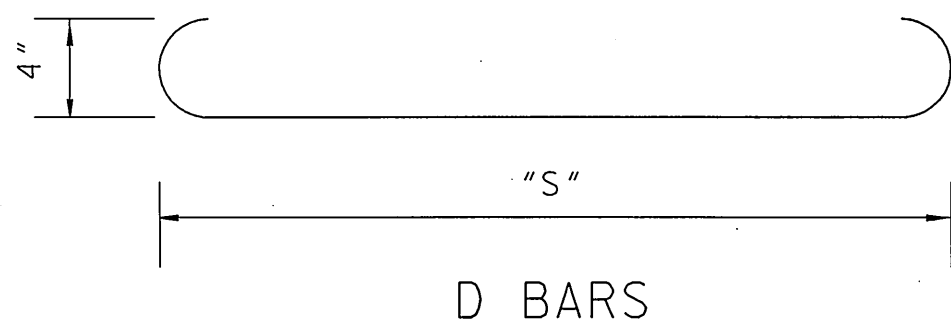
TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST	2006	19002-4177-04	2K

REV.1, 2/22/06, ADDED NOTE

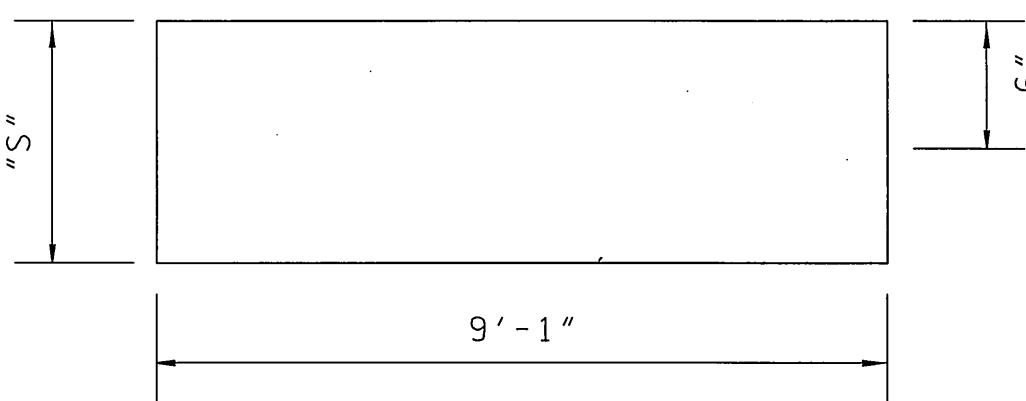


ANCHOR BOLT DETAIL

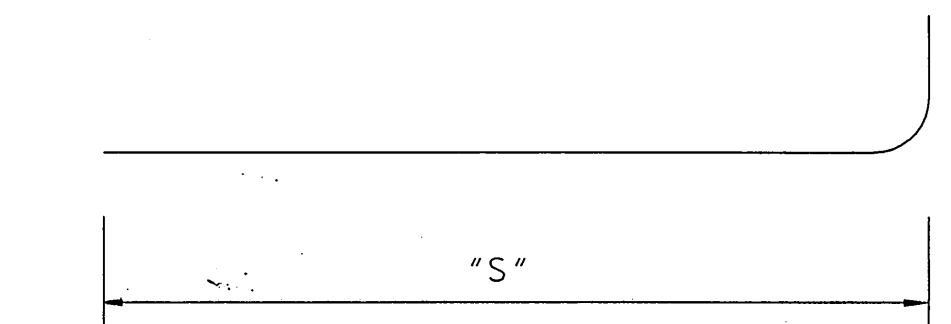
ASTM A-687 GALVANIZED STEEL (OR AS SUPPLIED BY THE SIGN FABRICATOR)



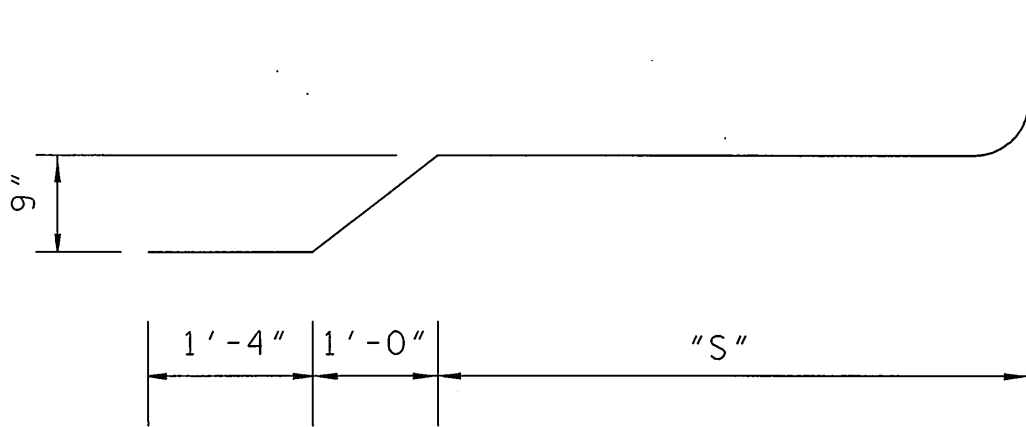
D BARS



L BARS

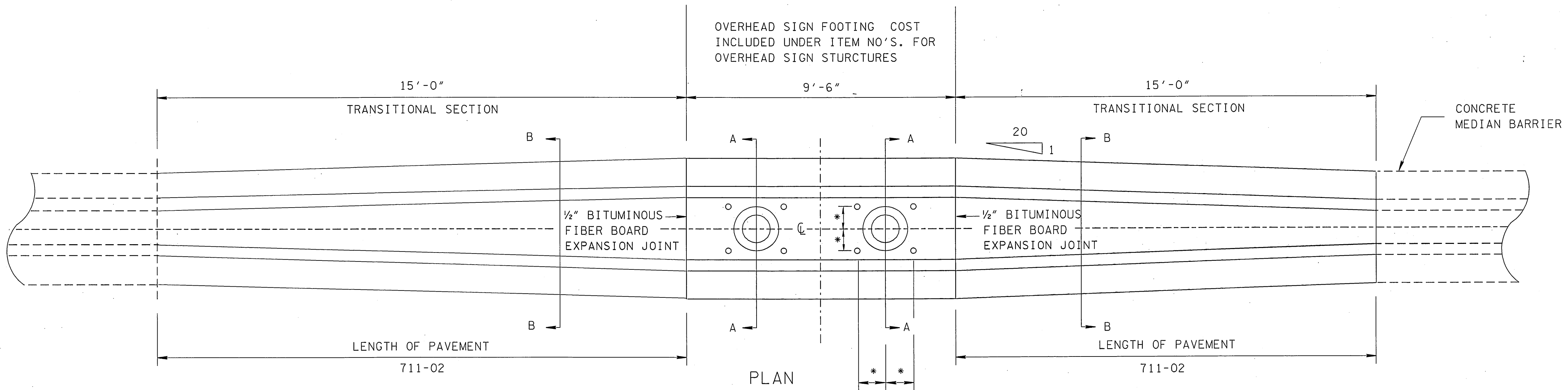


C BARS

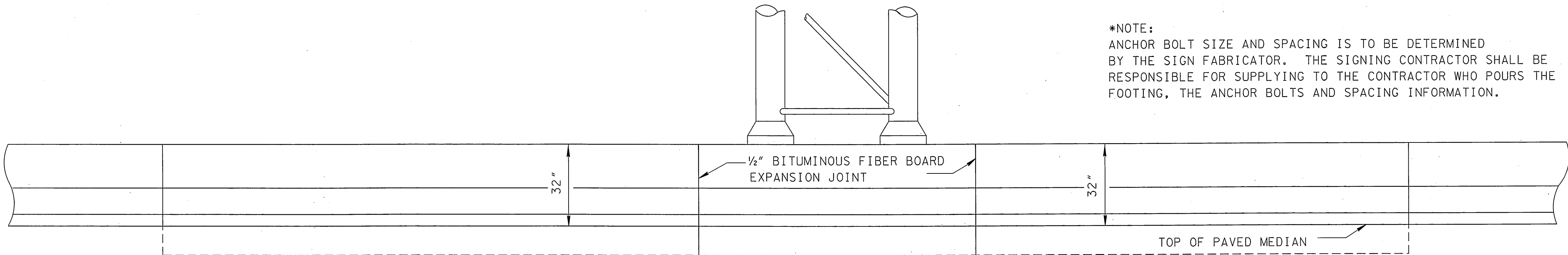


BARS CA 700

BAR DETAIL

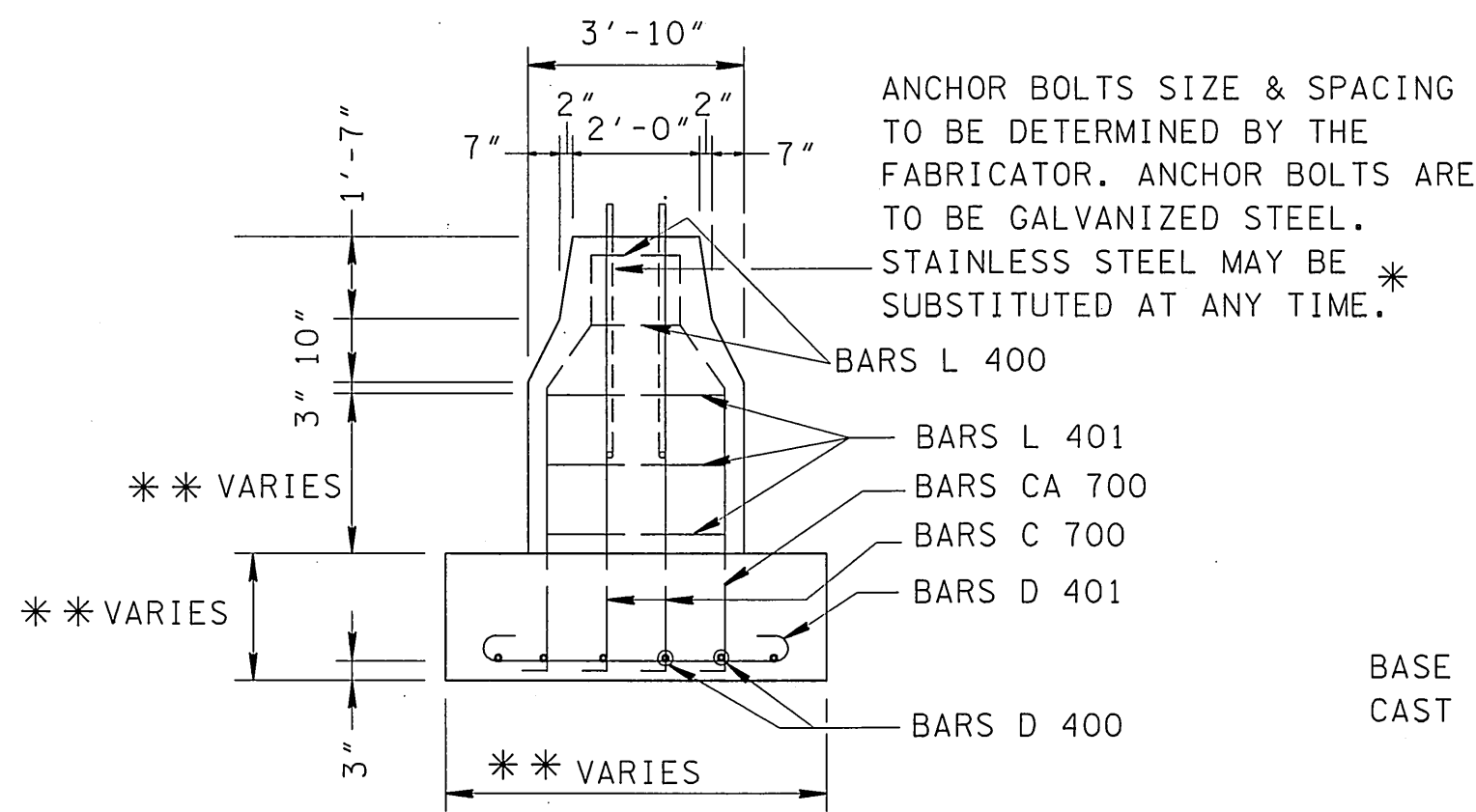


PLAN



ELEVATION

*NOTE:
ANCHOR BOLT SIZE AND SPACING IS TO BE DETERMINED BY THE SIGN FABRICATOR. THE SIGNING CONTRACTOR SHALL BE RESPONSIBLE FOR SUPPLYING TO THE CONTRACTOR WHO POURS THE FOOTING, THE ANCHOR BOLTS AND SPACING INFORMATION.

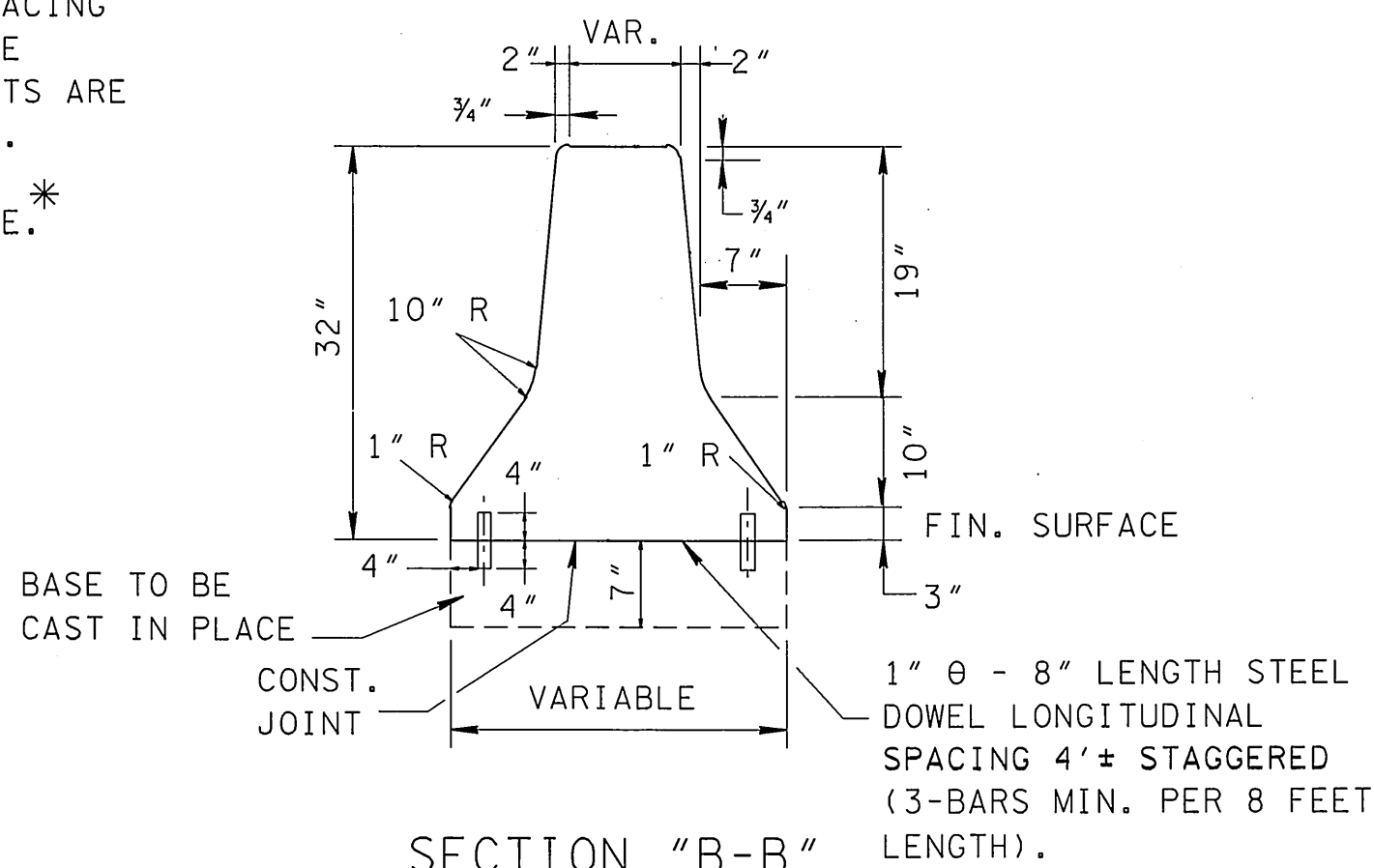


SECTION "A-A"

* NOTE:
ANCHOR BOLTS SIZE & SPACING TO BE DETERMINED BY THE FABRICATOR. THE SIGN FABRICATOR SHALL BE RESPONSIBLE FOR SUPPLYING THE ANCHOR BOLTS AND SPACING INFORMATION TO THE CONTRACTOR.

* * NOTE:
IT'S THE CONTRACTOR'S RESPONSIBILITY TO DESIGN THE FOOTING BASED ON THE SIGN STRUCTURE AND SIGN LOADS.

IF A SIGN STRUCTURE OTHER THAN A TWO COLUMN TRUSS TYPE IS USED, THE CONTRACTOR SHALL SUBMIT THE PROPOSED MEDIAN BARRIER MOUNTING DETAILS TO THE ENGINEER FOR APPROVAL.



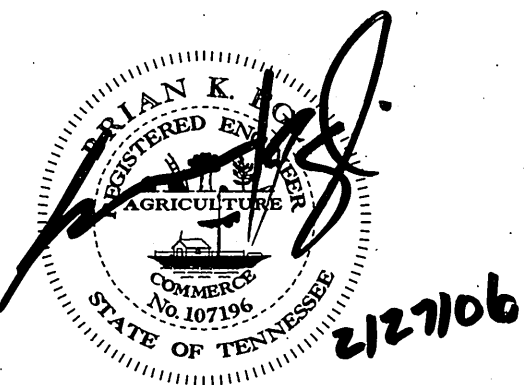
SECTION "B-B"

FINISHED CONCRETE SURFACES: CONCRETE FINISHING SHALL BE IN ACCORDANCE WITH SECTION 604.22 OF THE TENNESSEE STANDARD SPECIFICATIONS EXCEPT AS MODIFIED BY THE SPECIAL PROVISION NO. 130 REGARDING SECTION 604-CONCRETE STRUCTURES. A TEXTURED COATED FINISH SHALL BE USED IN LIEU OF A CLASS 2 FINISH. THE COLOR OF THE FINISH SHALL BE SIMILAR TO WHITE FEDERAL SPECIFICATION NO. 37778, A COLOR SAMPLE SHALL BE SUBMITTED TO THE MATERIALS AND TEST ENGINEER FOR APPROVAL. ALL COST OF FINISHING TO BE INCLUDED IN ITEM NO. 711-02.

PLASTIC COATED DOWEL BARS WILL BE PERMITTED AS AN ALTERNATE TO PAINTED AND GREASED DOWEL BARS. THE PLASTIC COATING SHALL BE AN APPROVED HIGH DENSITY POLYETHYLENE 17 MILS (+/- 2 MILS) BONDED TO THE BAR WITH AN APPROVED ADHESIVE 1 TO 8 MILS THICK (4 MILS NOMINAL).

PRICE OF BARRIER INCLUDES COST OF ALL REINFORCEMENT, DOWELS, DRILLING, JOINTS, JOINT MATERIAL AND ANY OTHER INCIDENTAL ITEMS NECESSARY FOR COMPLETE INSTALLATION OF THE BARRIER.

FOR USE WITH ALTERNATE A



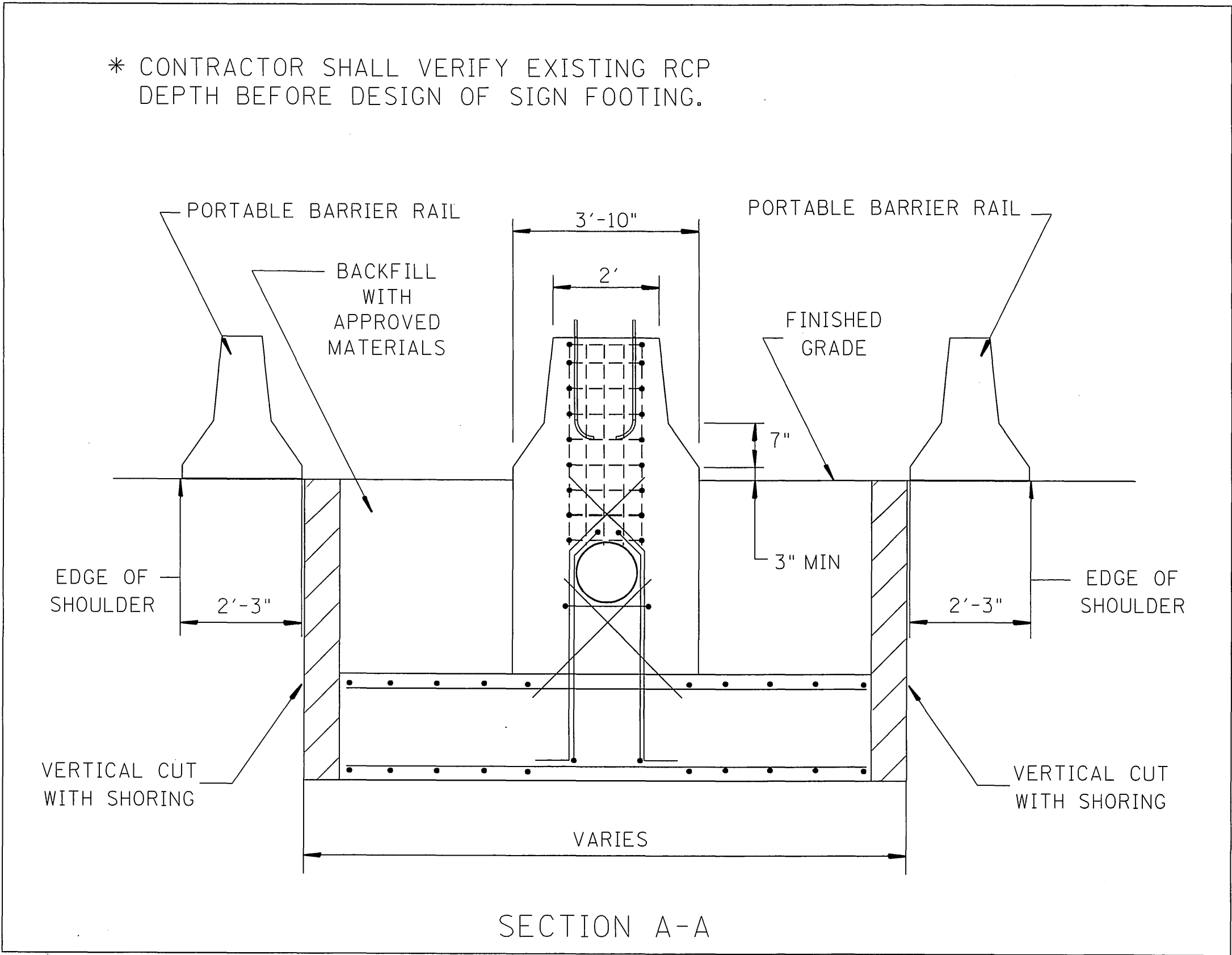
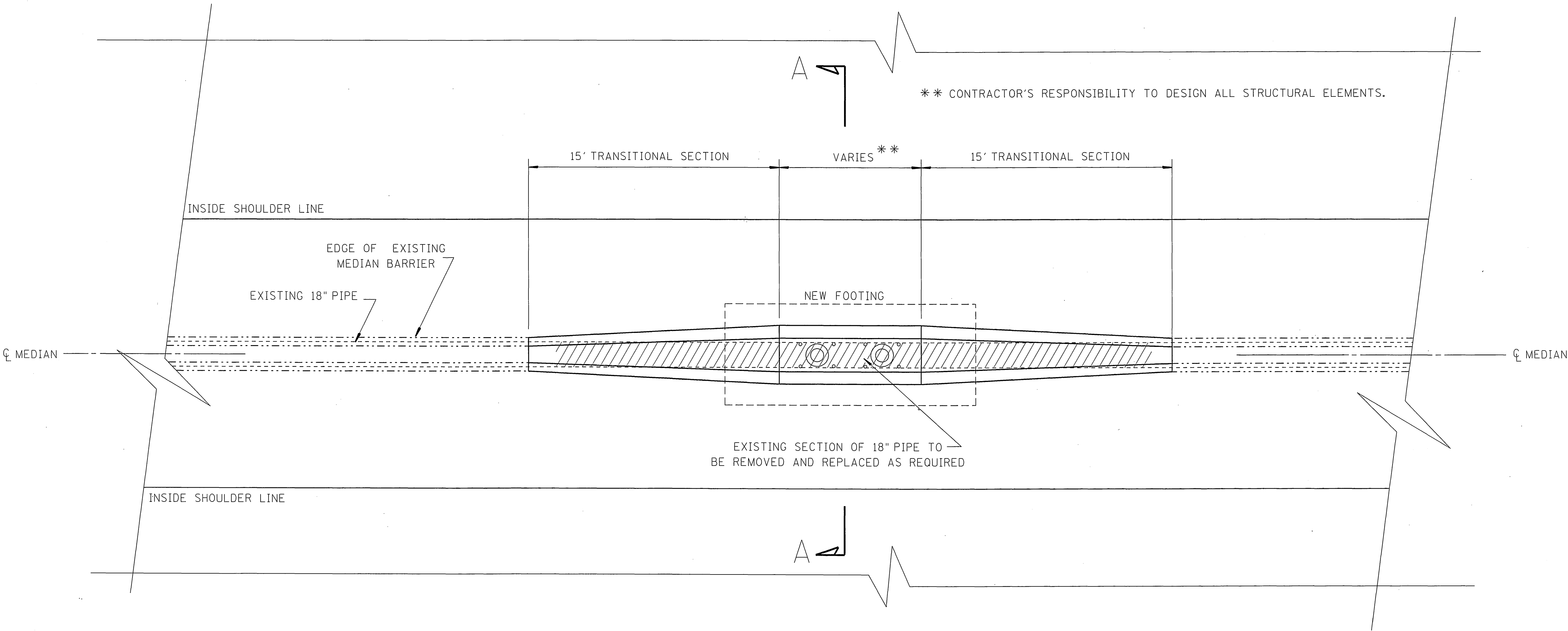
STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

DETAILS
OVERHEAD SIGN
STRUCTURE
MOUNTED ON CONCRETE
MEDIAN BARRIER

32" WALL

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST	2005	19002-4177-04	2L

REV.1, 2/22/06, ADDED NOTE

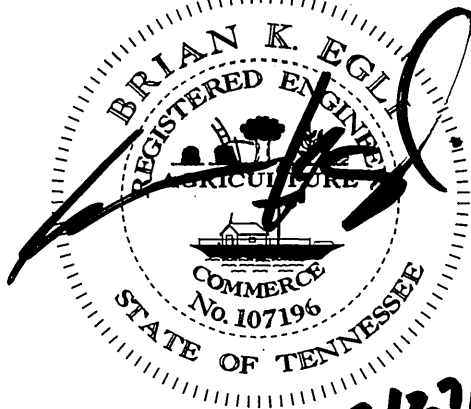


NOTES:

1. AT THREE (3) LOCATIONS (SIGNS 1, 2 & 6, AND SIGN 3) AN EXISTING DRAINAGE SYSTEM RUNS UNDER THE PROPOSED FOOTING LOCATION. IN THESE LOCATIONS THE DRAINAGE SHALL BE ROUTED THROUGH THE PROPOSED FOOTING AS SHOWN IN THIS DETAIL. IT IS THE CONTRACTOR'S RESPONSIBILITY TO DESIGN ALL STRUCTURAL ELEMENTS. IF THE CONTRACTOR PREFERENCES AN ALTERNATE METHOD, THE PROPOSED METHOD MUST BE SUBMITTED TO THE ENGINEER FOR APPROVAL.
2. SPECIFIC ELEVATION AND BENCHMARK DATA IS NOT PROVIDED. IT IS THE CONTRACTOR'S RESPONSIBILITY TO TIE TO EXISTING PIPE GRADES AT EACH END AND MAINTAIN A CONSTANT GRADE ALONG NEW PIPE SECTIONS.

FOR USE WITH ALTERNATE A

EXISTING DRAINAGE INFORMATION	
** SIGN 1 - 18" CONCRETE PIPE IS APPROXIMATELY 7' BELOW MEDIAN BARRIER.	
** INFORMATION FROM WIDENING PROJECT I-IR-65-3(72)83 SHEET 28 OF 87	
*** CATCH BASIN INVOLVED AT:	
SIGN 2 & 6 - NORM. GUTTER FLOW LINE - 439.04' INVERT ELEVATION - 435.04' PIPE SLOPE - 1.55 %	SIGN 3 - NORM. GUTTER FLOW LINE - 451.21' INVERT ELEVATION - 449.21' PIPE SLOPE - 1.50 %
*** INFORMATION FROM WIDENING PROJECT I-IR-65-3(72)83 SHEETS 7A, 7B AND 2R	

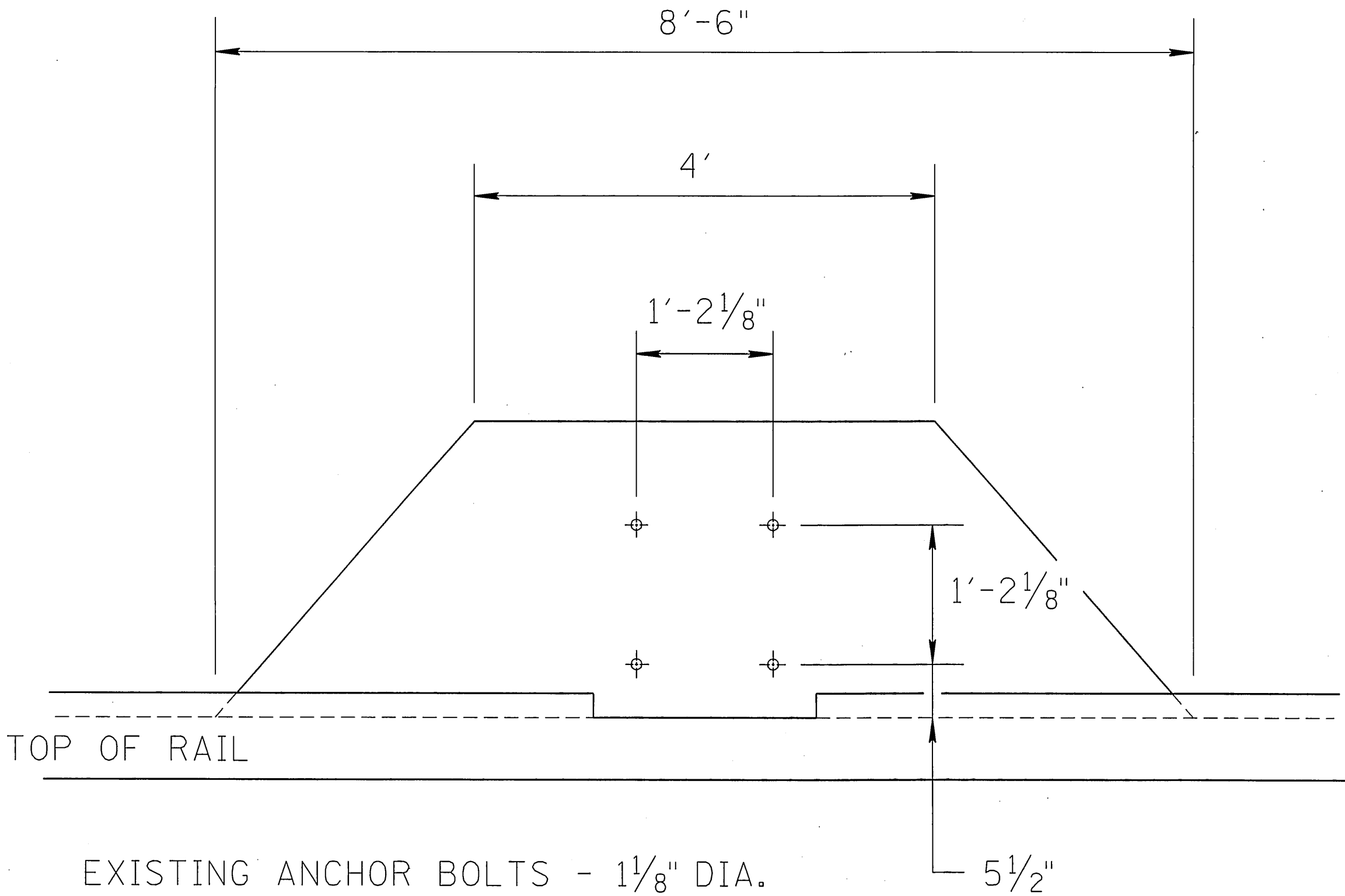


STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

DRAINAGE DETAILS
AT MEDIAN SIGN
STRUCTURE FOOTING
SIGNS 1, 2 & 6,
AND SIGN 3

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2006	19002-4177-04	2M

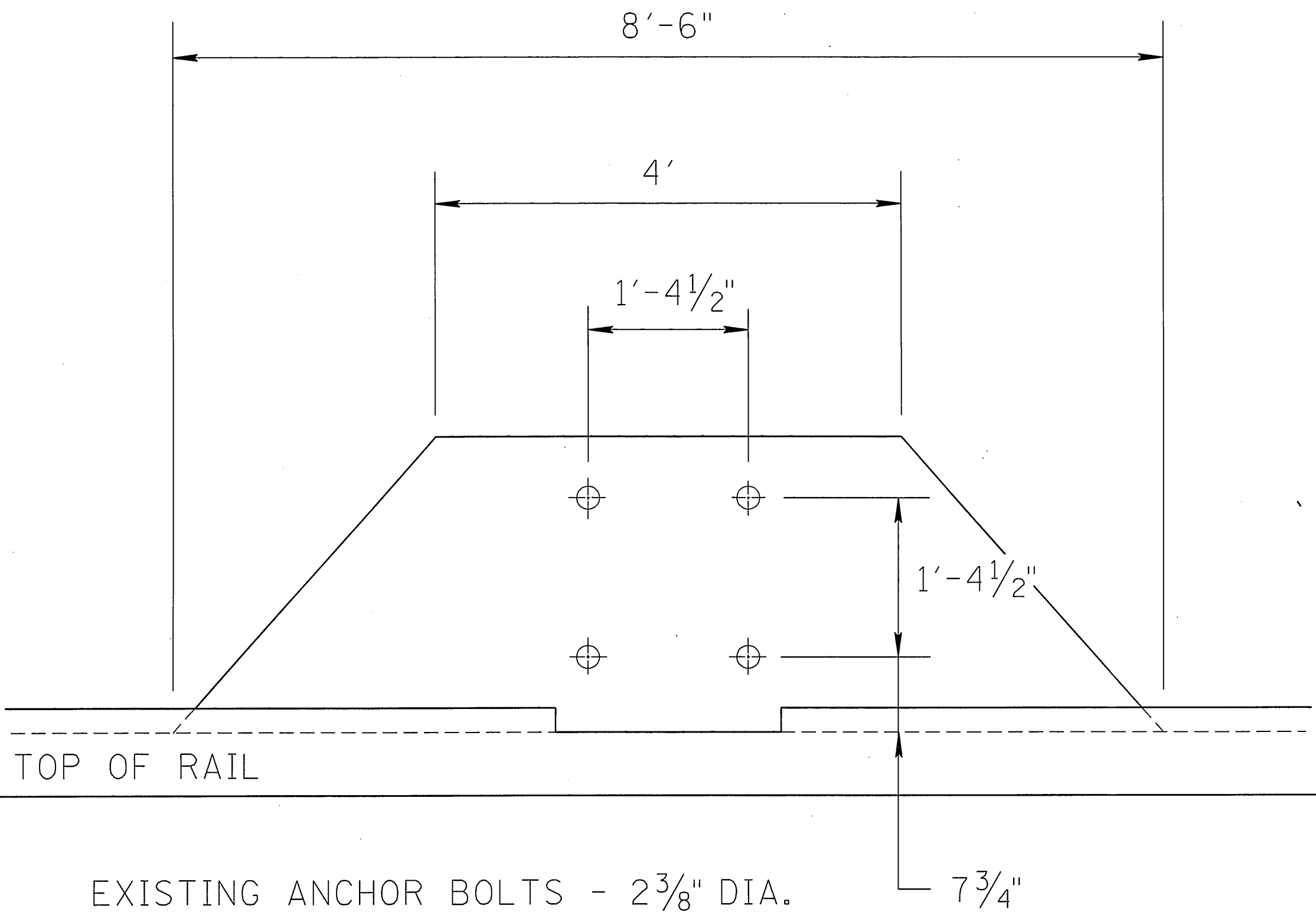
REV 1, 01/06/06, ADDED NOTES
REV.2, 2/22/06, ADDED NOTE



SIGN 7A & 7B

1 NOTE: THE TWO EXISTING CANTILEVER SIGNS (7A AND 7B) TO BECOME ONE OVERHEAD SIGN. SEE SHEETS 2H AND 10.

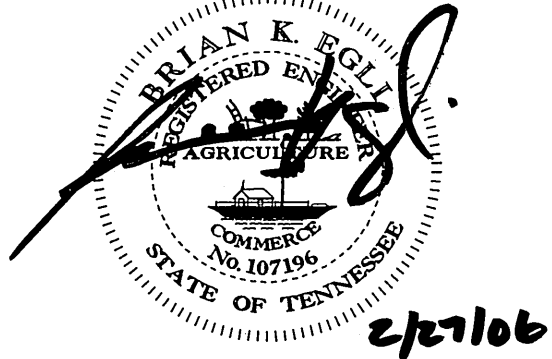
FOR USE WITH ALTERNATE A AND B 2



SIGN 8

1 NOTE: EXISTING CANTILEVER SIGN SUPPORT TO BE REPLACED WITH A NEW CANTILEVER SIGN SUPPORT. THE NEW SIGN SUPPORT SHALL USE THE EXISTING 4 BOLT ANCHOR BOLT PATTERN IN LIEU OF THE 8 BOLT ANCHOR CALLED FOR ON STD-8-4.

NOTE: CONTRACTOR IS TO VERIFY ALL MEASUREMENTS BEFORE ANY FABRICATION OF SIGN SUPPORTS BEGINS.

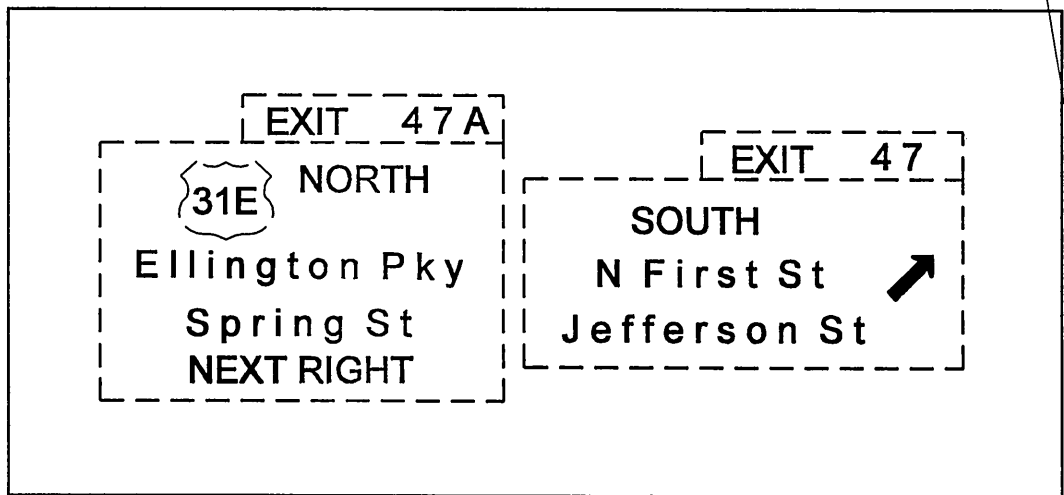


ALL CANTILEVER SIGN STRUCTURES MOUNTED ON BRIDGES SHALL BE EQUIPPED WITH VIBRATION DAMPERS.

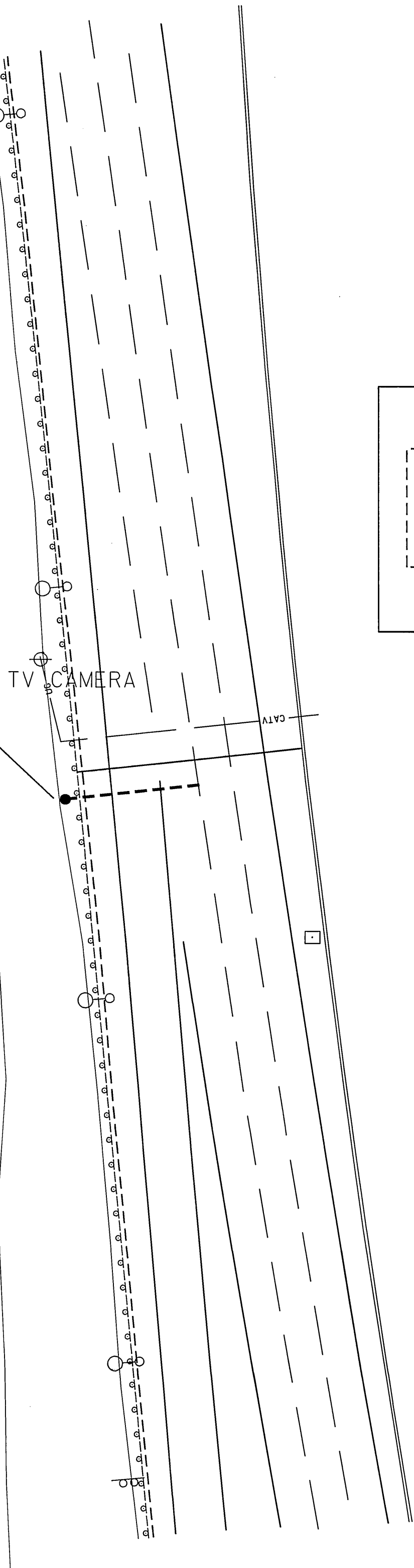
CANTILEVER SIGN BASE
SUPPORT DETAILS
DAVIDSON COUNTY
2006

DESIGNED BY R.L. CRAWFORD DATE 12-04
DRAWN BY M. DYE (K.L.F.) DATE 1-05
SUPERVISED BY R.L.C./R.L.H./H.M.B. DATE 12-04
CHECKED BY _____ DATE _____

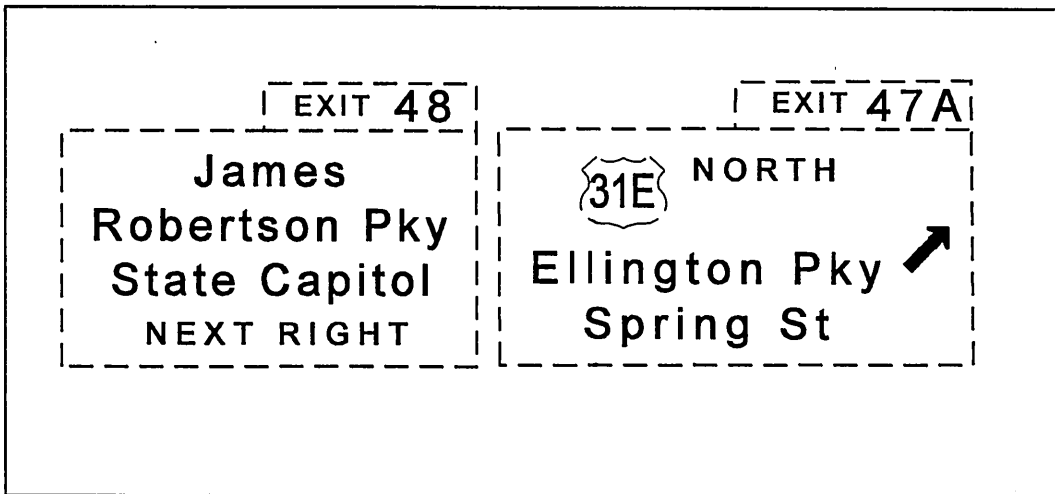
TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2006	19002-4177-04	3



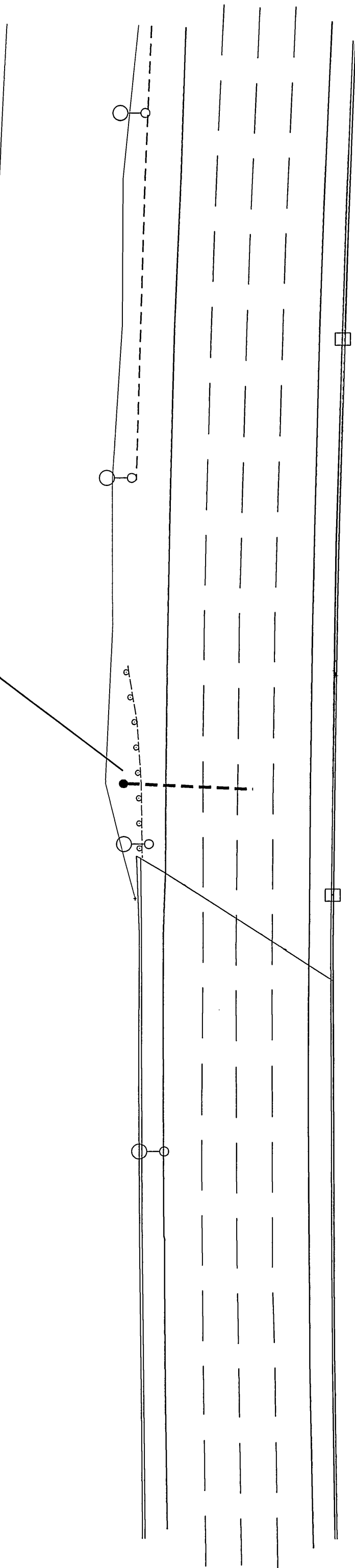
EXISTING SIGNS
TO BE USED ON
NEW SUPPORT



SIGN 1
EASTBOUND LANES
EXISTING SIGN NO. 19SIGN003833



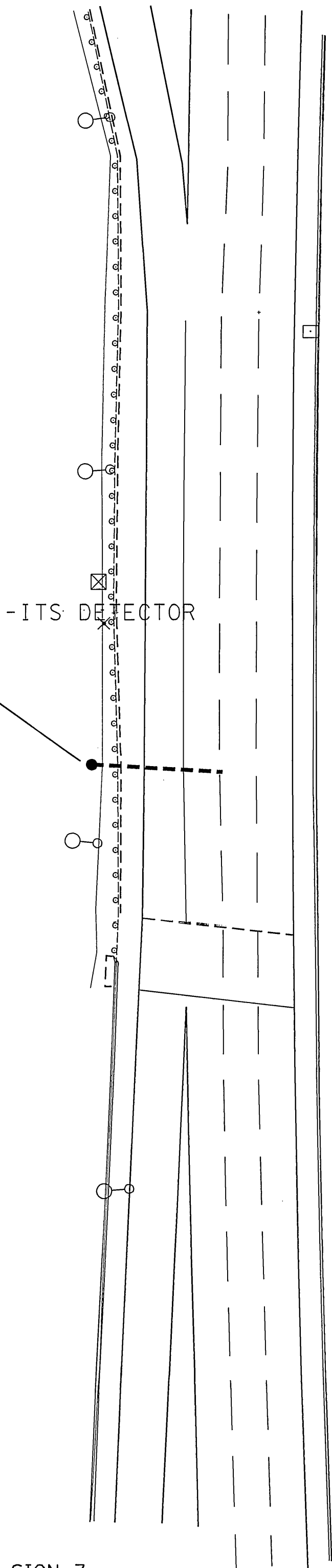
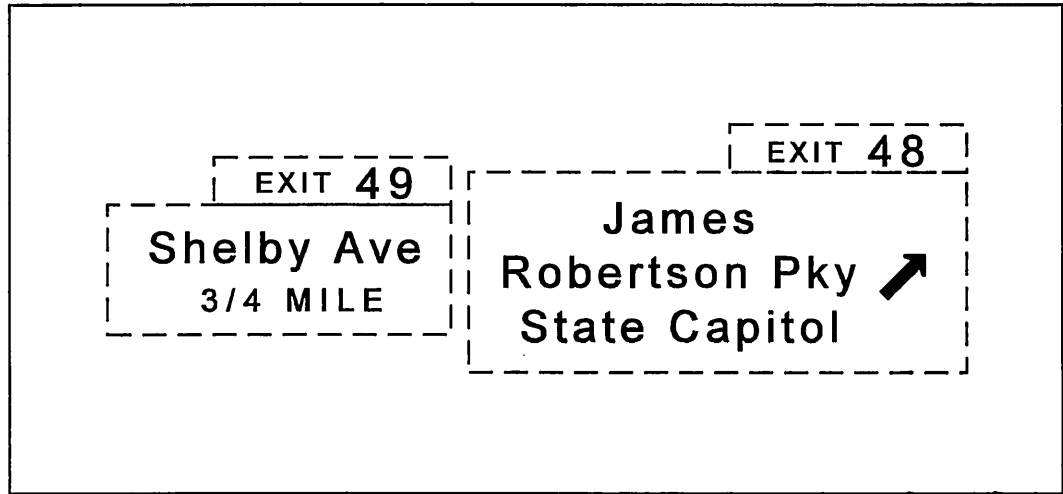
EXISTING SIGNS
TO BE USED ON
NEW SUPPORT



SIGN 2
EASTBOUND LANES
EXISTING SIGN NO. 19SIGN002503

EXISTING
JAMES ROBERTSON PKY
SIGN TO BE USED
ON NEW SUPPORT

EXISTING SHELBY AVE SIGN
TO BE REPLACED WITH NEW
EXTRUDED SIGN PANEL.
SEE SHEET 2B FOR NEW SIGN.

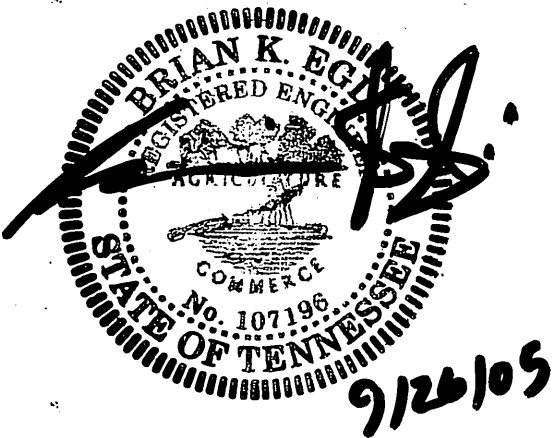


SIGN 3
EASTBOUND LANES
EXISTING SIGN NO. 19SIGN003623

SEE THE FOLLOWING REFERENCE
DRAWINGS FOR UTILITY INFORMATION

PROJECT I-IR-65-3(72)83
SHEETS 2R, 5A, 6A, 7A, 8A, 9A,
16C, 16D, 16E, 16F, 16G,
16H, 16J, 16K, 16L, 28

PROJECT IM-098-3(6)
SHEETS 4, 8, 9, 10, 11, 12, 13



TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2006	19002-4177-04	4

EXISTING
VARIABLE
MESSAGE SIGN
OVER EASTBOUND
LANES
SIGN NO. 19SN02414813

ITS DETECTOR BASE

SIGN TO HAVE NEW
EXTRUDED SIGN PANEL.
SEE SHEET 2B FOR NEW SIGN.

SIGN 4
WESTBOUND LANES
EXISTING SIGN NO. 19SIGN001973

SEE THE FOLLOWING REFERENCE
DRAWINGS FOR UTILITY INFORMATION

PROJECT I-IR-65-3(72)83
SHEETS 2R, 5A, 6A, 7A, 8A, 9A,
16C, 16D, 16E, 16F, 16G,
16H, 16J, 16K, 16L, 28

PROJECT IM-098-3(6)
SHEETS 4, 8, 9, 10, 11, 12, 13

EXIT 47
Jefferson St
NEXT RIGHT

EXIT 47A
31E NORTH
Ellington Pky
Spring St

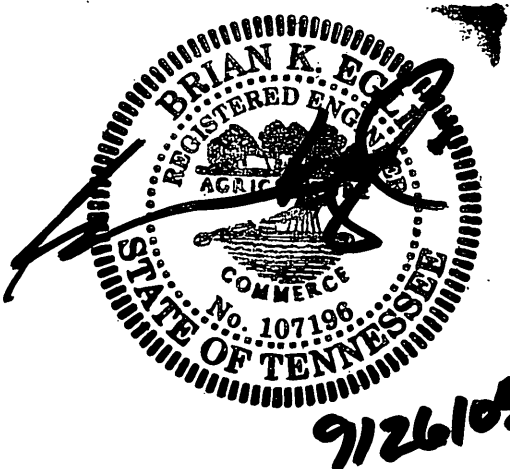
EXISTING SIGNS
TO BE USED ON
NEW SUPPORT

SIGN 5
WESTBOUND LANES
EXISTING SIGN NO. 19SIGN001983

EXIT 47
Jefferson St

EXISTING SIGN
TO BE USED ON
NEW SUPPORT

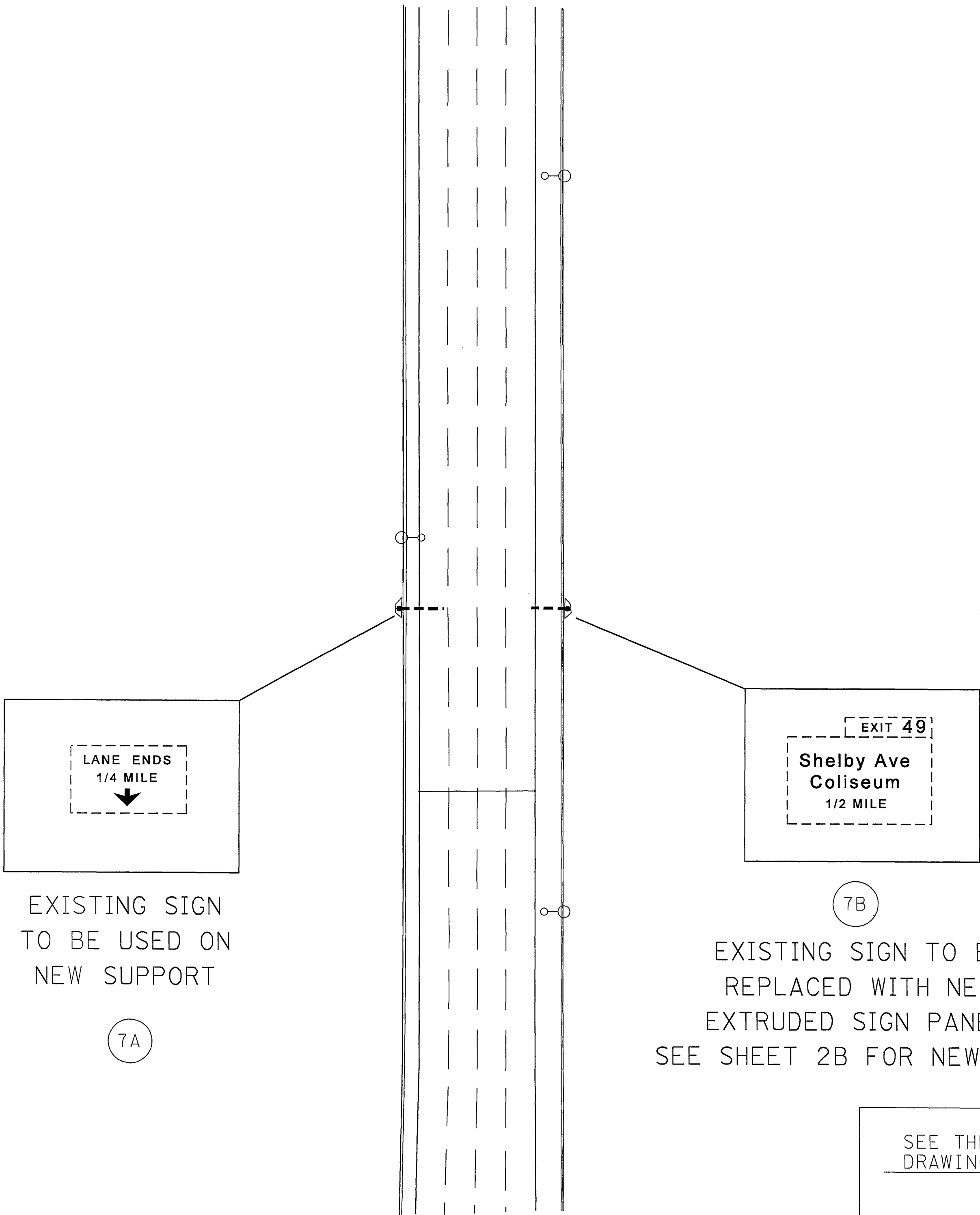
SIGN 6
WESTBOUND LANES
EXISTING SIGN NO. 19SIGN002023



STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EXISTING SIGN LAYOUT
SIGNS 4, 5, 6
I-24 EASTBOUND
DOWNTOWN LOOP
DAVIDSON COUNTY
2006

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2006	19002-4177-04	5



EXISTING SIGN
TO BE USED ON
NEW SUPPORT

7A

EXISTING SIGN TO BE
REPLACED WITH NEW
EXTRUDED SIGN PANEL.
SEE SHEET 2B FOR NEW SIGN.

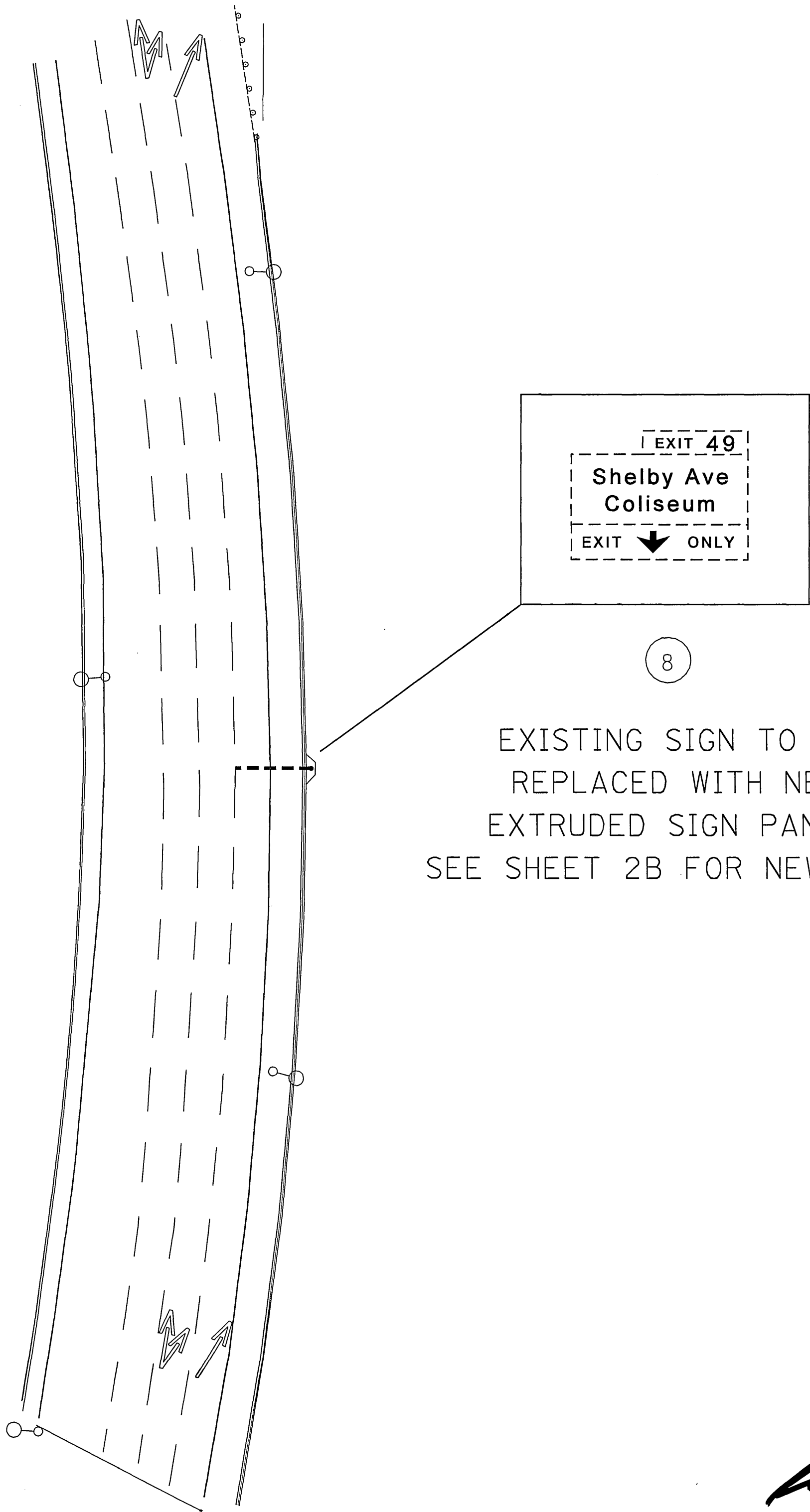
7B

SEE THE FOLLOWING REFERENCE
DRAWINGS FOR UTILITY INFORMATION

PROJECT I-IR-65-3(72)83
SHEETS 2R,5A,6A,7A,8A,9A,
16C,16D,16E,16F,16G,
16H,16J,16K,16L,28

PROJECT IM-098-3(6)
SHEETS 4,8,9,10,11,12,13

SIGN 7A & 7B
WESTBOUND LANES
EXISTING SIGN NO.19SIGN001943 (7A)
EXISTING SIGN NO.19SIGN001953 (7B)



SIGN 8
WESTBOUND LANES
EXISTING SIGN NO.19SIGN001933

EXISTING SIGN TO BE
REPLACED WITH NEW
EXTRUDED SIGN PANEL.
SEE SHEET 2B FOR NEW SIGN.

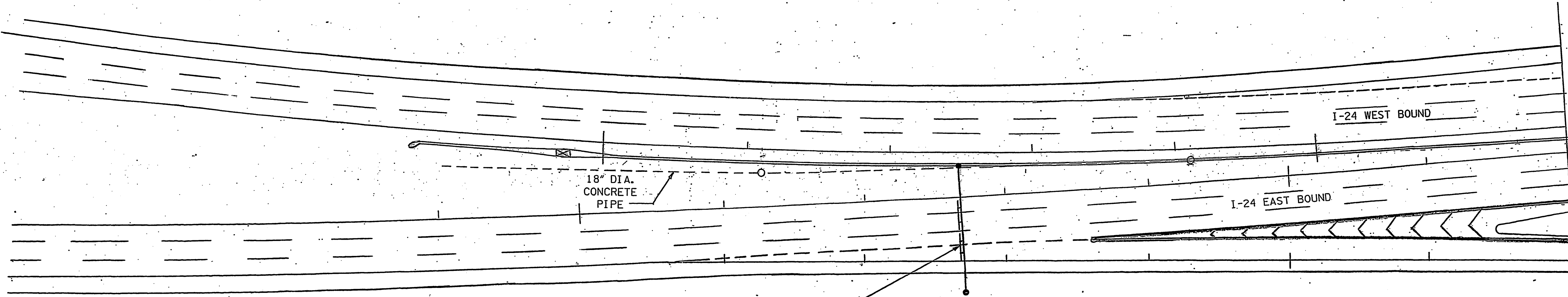
8



STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EXISTING SIGN LAYOUT
SIGNS 7A, 7B, 8
I-24 EASTBOUND
DOWNTOWN LOOP
DAVIDSON COUNTY
2006

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST	2005	19002-4177-04	6



EXIT 47A

31E NORTH

Ellington Pky

Spring St

NEXT RIGHT

EXIT 47

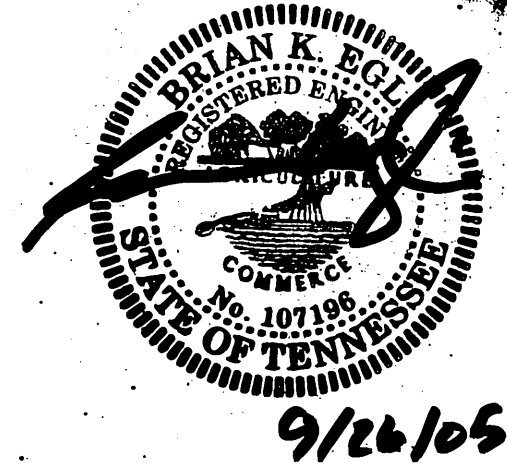
SOUTH

N First St

Jefferson St

1

NOTE: NEW OVERHEAD SIGN TO BE LOCATED
± 90' WEST OF THE EXISTING CANTILEVER.
CENTER FOOTING SHALL BE LOCATED 15' FROM
THE FRONT FACE OF GUARDRAIL.
CONTRACTOR SHALL MAKE SURE SIGN SUPPORTS
DON'T INTERFERE WITH EXISTING ROADWAY
LIGHTING.



STATE OF TENNESSEE

DEPARTMENT OF TRANSPORTATION

PROPOSED SIGN LAYOUT

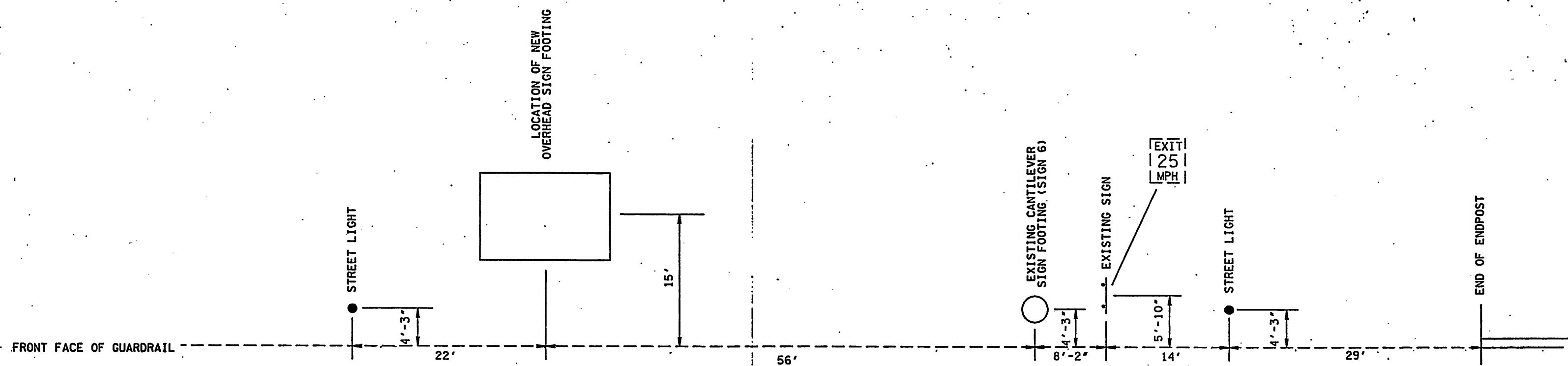
SIGN 1

I-24 DOWNTOWN LOOP

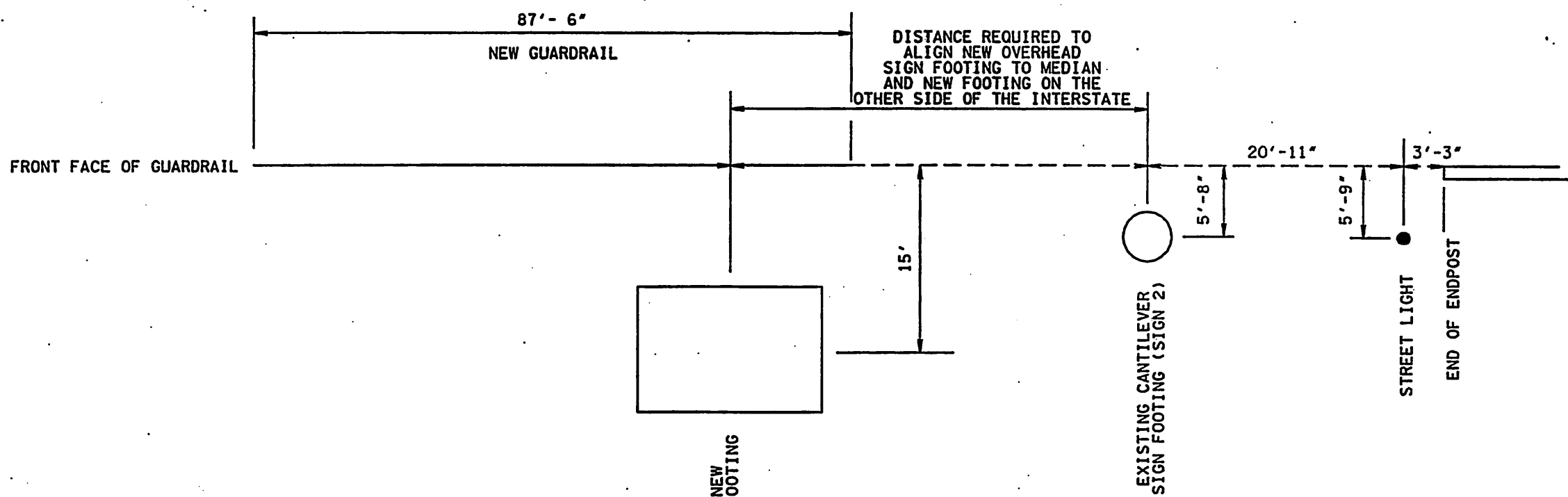
DAVIDSON COUNTY

2005

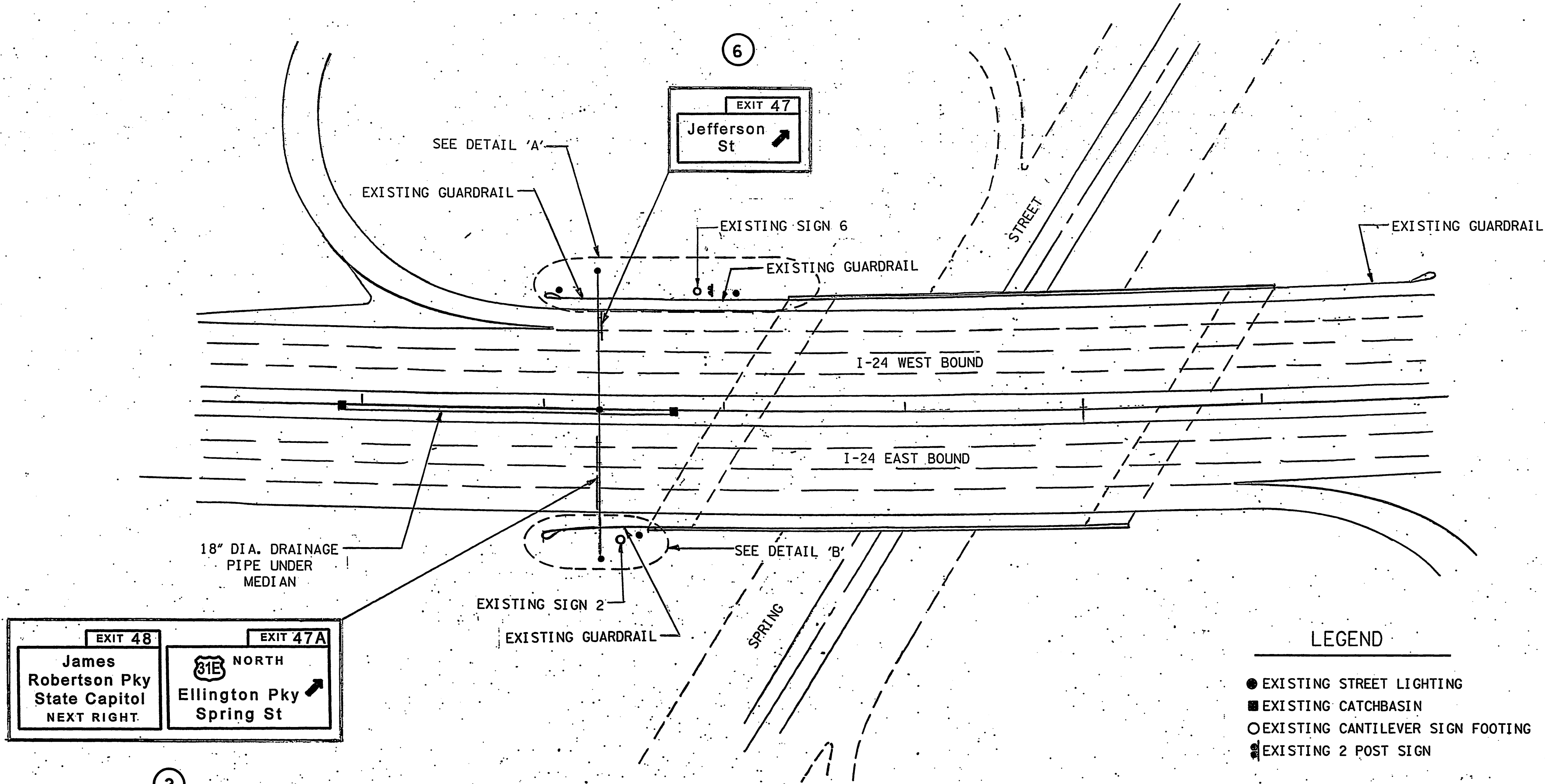
TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST	2006	19002-4177-04	7



DETAIL 'A'



DETAIL 'B'



EXIT 48
James
Robertson Pky
State Capitol
NEXT RIGHT.

EXIT 47A
NORTH
81E
Ellington Pky
Spring St

2

LEGEND

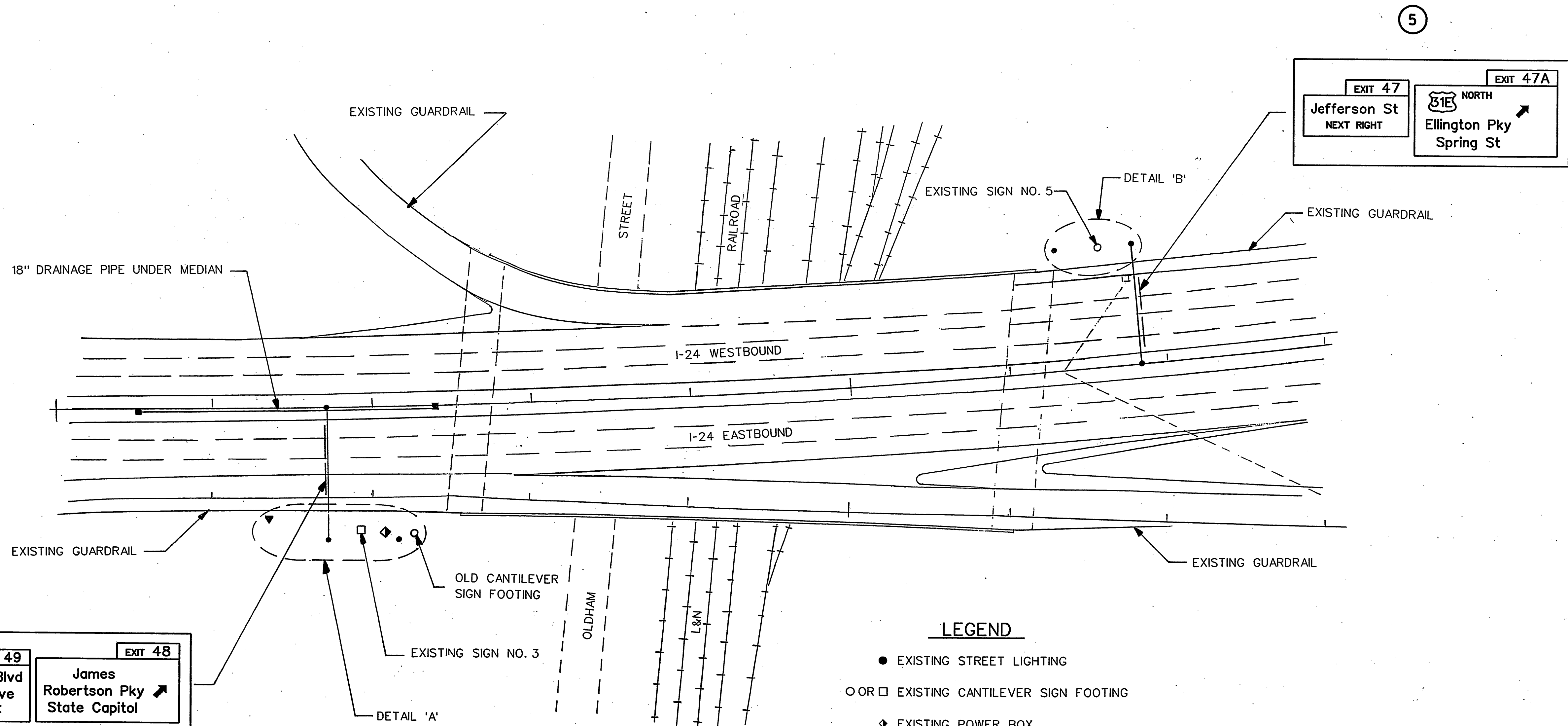
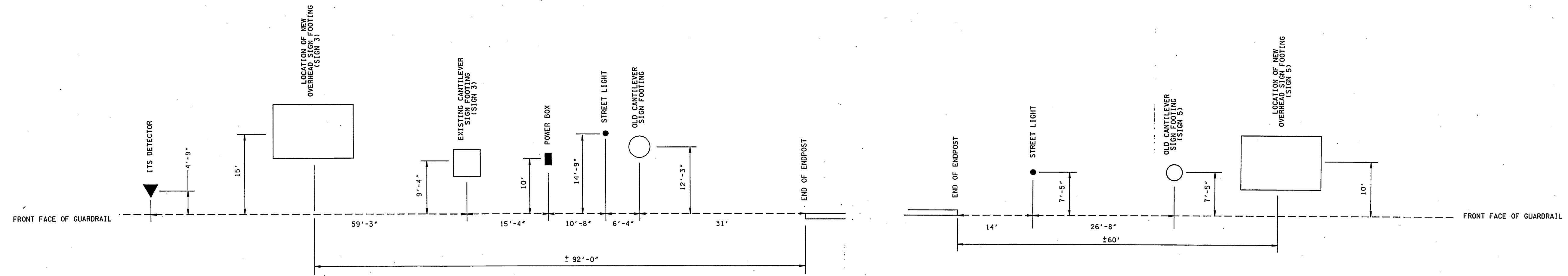
- EXISTING STREET LIGHTING
- EXISTING CATCHBASIN
- EXISTING CANTILEVER SIGN FOOTING
- EXISTING 2 POST SIGN



STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROPOSED SIGN LAYOUT
SIGNS 2&6
I-24 DOWNTOWN
LOOP
DAVIDSON COUNTY
2006

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST	2006	19002-4177-04	8



LEGEND

- EXISTING STREET LIGHTING
- OR □ EXISTING CANTILEVER SIGN FOOTING
- ◆ EXISTING POWER BOX
- ▼ EXISTING ITS DETECTOR



9/26/05

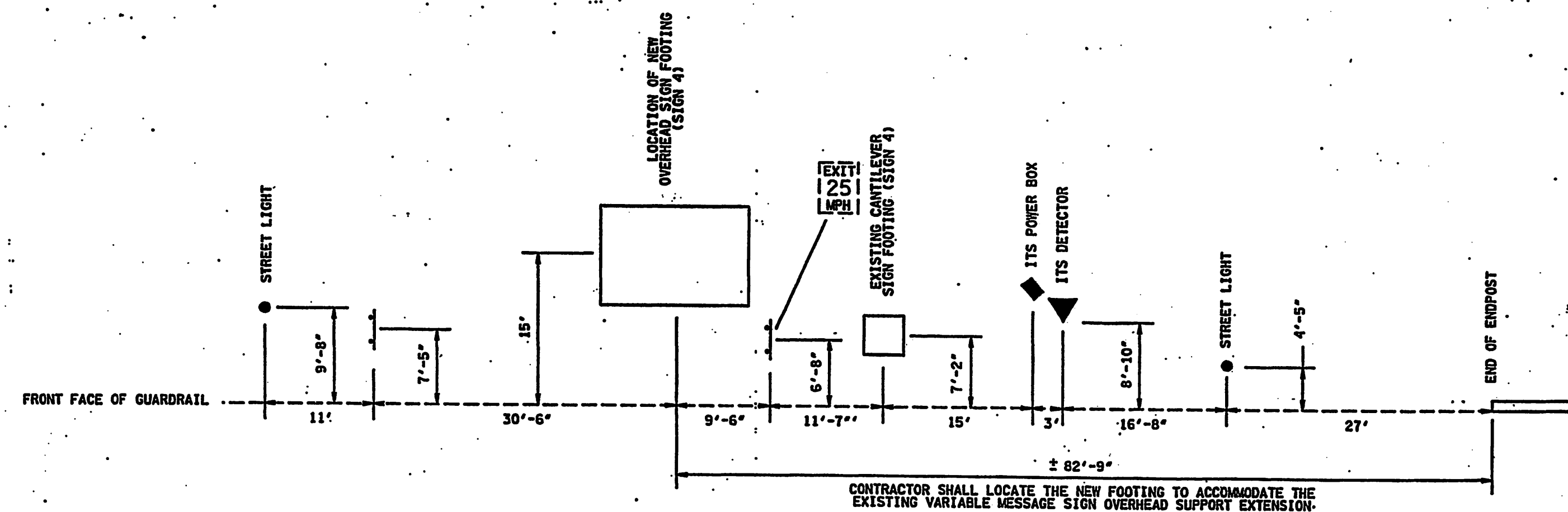
STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROPOSED SIGN LAYOUT
SIGNS 3&5
I-24 DOWNTOWN
LOOP
DAVIDSON COUNTY
2006

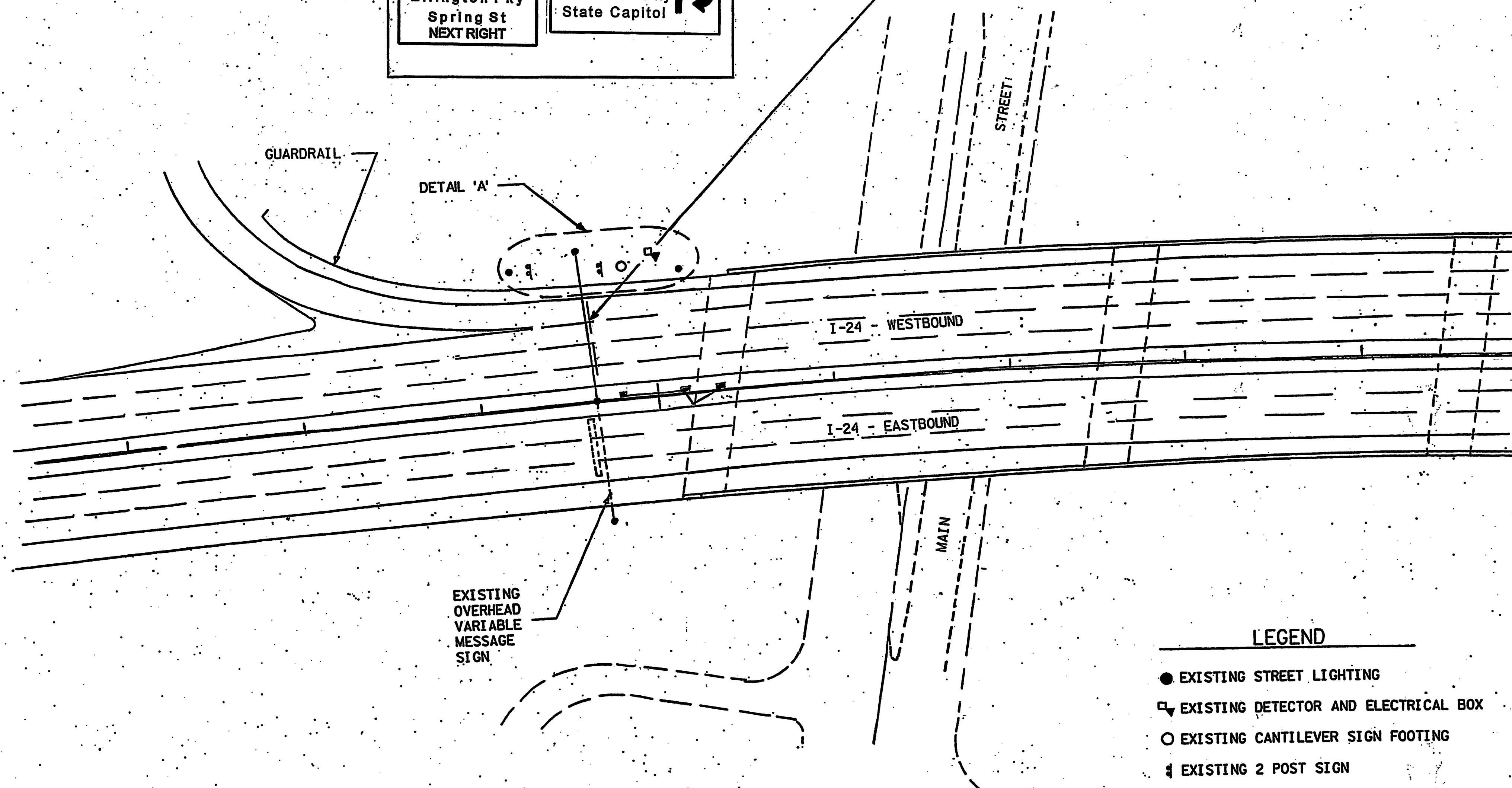
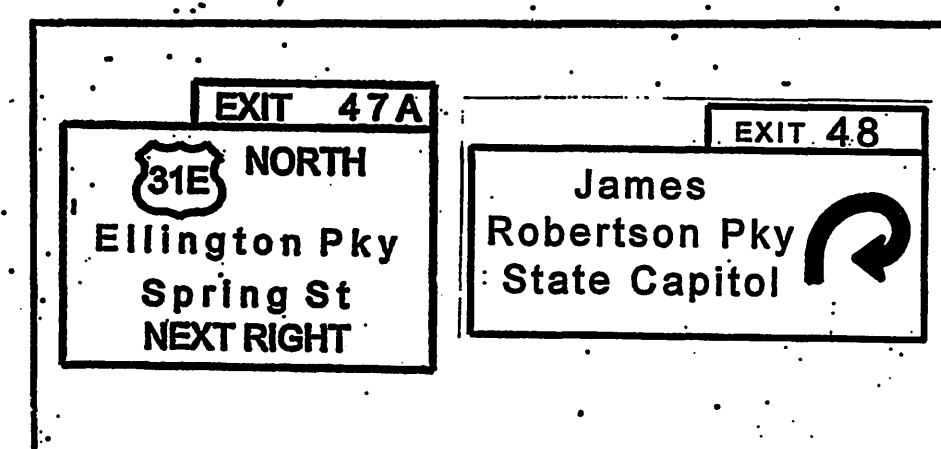
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02/25/06

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST	2006	19002-4177-04	9



DETAIL 'A'



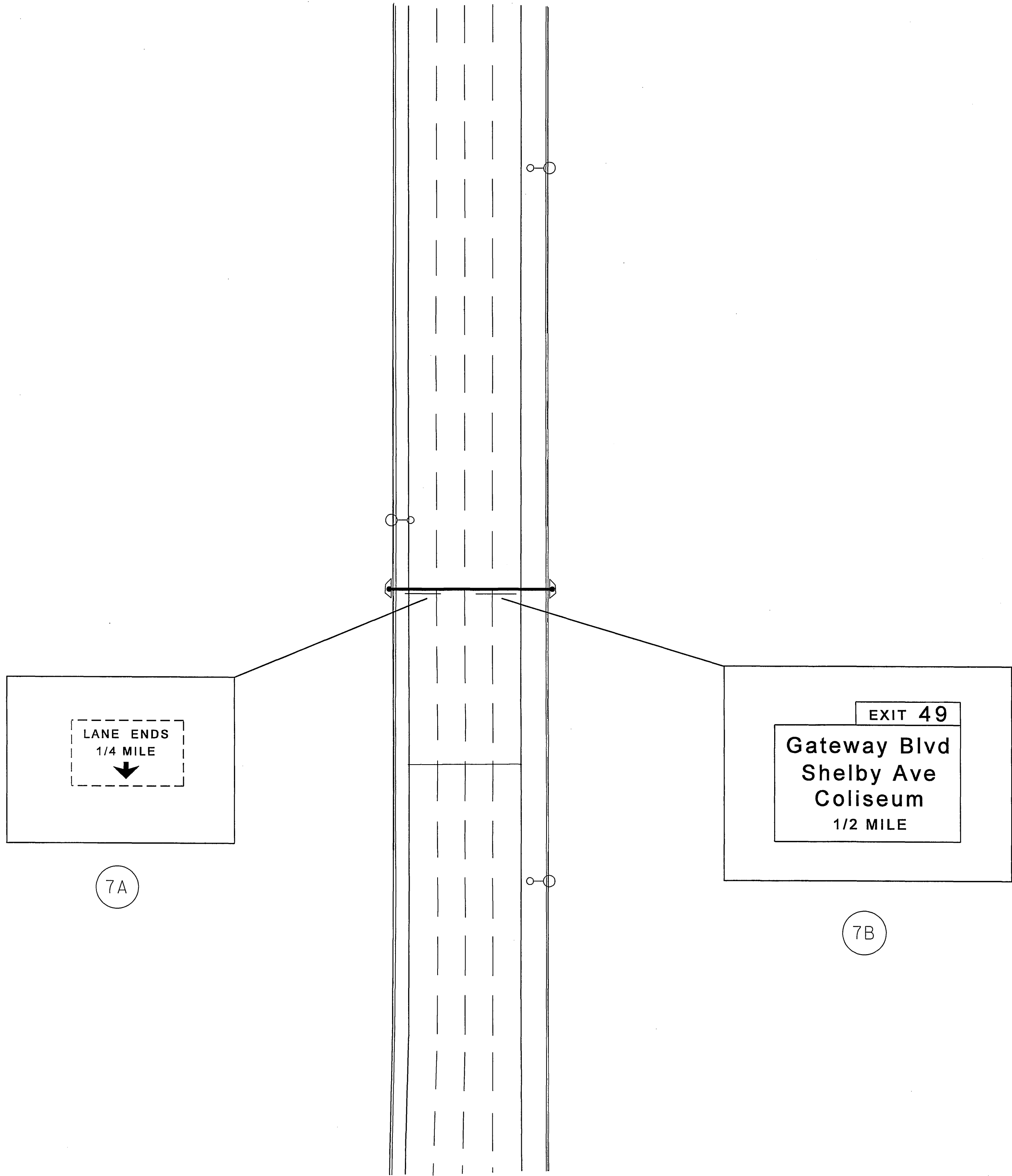
LEGEND

- EXISTING STREET LIGHTING
- EXISTING DETECTOR AND ELECTRICAL BOX
- EXISTING CANTILEVER SIGN FOOTING
- ⌞ EXISTING 2 POST SIGN
- EXISTING CATCH BASIN

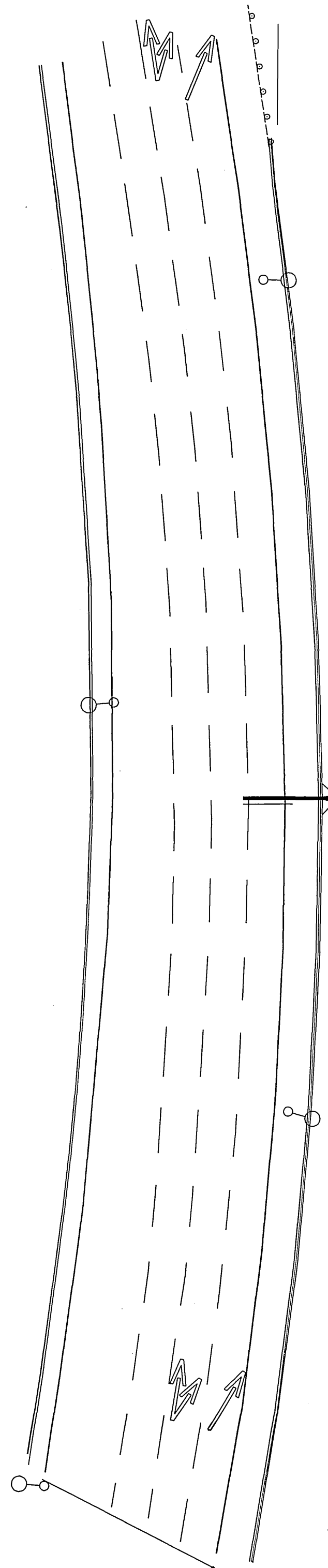


STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
PROPOSED SIGN LAYOUT
SIGN 4
I-24 DOWNTOWN LOOP
DAVIDSON COUNTY
2006

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2006	19002-4177-04	10



SIGN 7A & 7B
WESTBOUND LANES



SIGN 8
WESTBOUND LANES



TRAFFIC CONTROL PLAN

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST	2006	19002-4177-04	11

INTRODUCTION

THIS PROJECT SHOULD BE CONSTRUCTED IN A MANNER TO LIMIT THE IMPACT ON TRAFFIC. MUCH OF THE WORK IN THIS PROJECT CAN BE PERFORMED BEYOND THE SHOULDERS OF THE ROADWAY. HOWEVER, SOME WORK WILL REQUIRE SHOULDER CLOSURES AND/OR LANE CLOSURES.

THIS PROJECT WILL CONSIST OF A NUMBER OF SHORT TERM WORK LOCATIONS WITHIN THE OVERALL PROJECT LIMITS. THE CONTRACTOR WILL BE ALLOWED TO WORK AT DIFFERENT LOCATIONS WITHIN THE PROJECT LIMITS; THEREFORE, EACH WORK LOCATION SHOULD BE SIGNED AS A SEPARATE WORK ZONE. ADVANCE SIGNING SHOULD BE PLACED AS NEEDED FOR EACH WORK ZONE WHEN WORKING CONDITIONS ARE PRESENT. ADVANCED SIGNING IS NOT NEEDED FOR THE OVERALL PROJECT LIMITS.

FOR THE PURPOSE OF THIS PROJECT, ANY WORK LOCATIONS WHICH ARE UNDER CONSTRUCTION DURING THE SAME TIME PERIOD AND ARE WITHIN ONE (1) MILE OF EACH OTHER AND IN THE SAME DIRECTION OF TRAFFIC SHALL BE TREATED AND SIGNED AS ONE WORK ZONE.

EXCEPT AS NOTED IN THIS PLAN, THE PHASING WORK IS AT THE CONTRACTOR'S DISCRETION. THE CONTRACTOR IS RESPONSIBLE FOR PHASING THE WORK IN A MANNER THAT FITS THE SCHEDULE AND ALSO LIMITS THE DURATION OF IMPACT ON TRAFFIC. THE CONTRACTOR SHALL SUBMIT A TRAFFIC CONTROL PLAN AT THE PRE-CONSTRUCTION MEETING WHICH OUTLINES THE PROPOSED PHASING, SCHEDULE OF WORK AND TRAFFIC CONTROL PROCEDURES THROUGHOUT THE PROJECT.

THIS TRAFFIC CONTROL PLAN IS NOT INTENDED TO SUPERCEDE OR RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY OF INSTALLING TRAFFIC CONTROL DEVICES IN ACCORDANCE WITH THE CURRENT "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" (MUTCD).

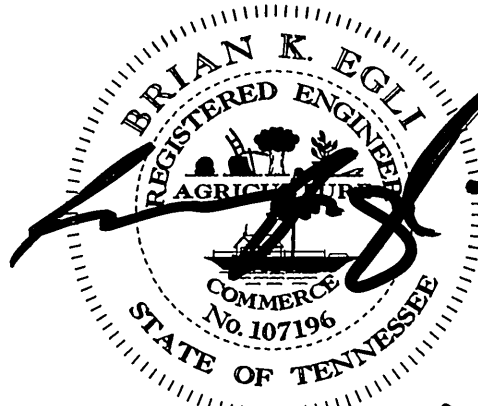
TRAFFIC CONTROL - GENERAL NOTES

- 1
- ADVANCED WARNING SIGNS SHALL NOT BE DISPLAYED MORE THAN FORTY-EIGHT (48) HOURS BEFORE PHYSICAL CONSTRUCTION BEGINS. SIGNS MAY BE ERECTED UP TO ONE WEEK IN BEFORE NEEDED, IF THE SIGN IS FULLY COVERED.
- 2
- IF THE CONTRACTOR MOVES OFF THE PROJECT OR OFF AN INDIVIDUAL WORK LOCATION, HE SHALL COVER OR REMOVE ALL UNNEEDED SIGNS AS DIRECTED BY THE ENGINEER. COSTS OF REMOVAL, COVERING, AND REINSTALLING SHALL NOT BE MEASURED AND PAID FOR SEPARATELY, BUT ALL COSTS SHALL BE INCLUDED IN THE ORIGINAL UNIT PRICE BID FOR ITEM NO. 712-06.10, NEW SIGNS (CONSTRUCTION) PER SQUARE FOOT.
- 3
- TRAFFIC CONTROL DEVICES SHALL NOT BE DISPLAYED OR ERECTED UNLESS RELATED CONDITIONS ARE PRESENT NECESSITATING WARNING.
- 4
- USE OF BARRICADES, PORTABLE BARRIER RAILS, VERTICAL PANELS, AND DRUMS SHALL BE LIMITED TO THE IMMEDIATE AREAS OF CONSTRUCTION WHERE A HAZARD IS PRESENT. THESE DEVICES SHALL NOT BE STORED ALONG THE ROADWAY WITHIN THIRTY (30) FEET OF THE EDGE OF THE TRAVELED WAY BEFORE OR AFTER USE UNLESS PROTECTED BY GUARDRAIL, BRIDGE RAIL, AND/OR BARRIERS INSTALLED FOR OTHER PURPOSES. THESE DEVICES SHALL BE REMOVED FROM THE CONSTRUCTION WORK ZONE WHEN THE ENGINEER DETERMINES THEY ARE NO LONGER NEEDED. WHERE THERE IS INSUFFICIENT RIGHT-OF-WAY TO PROVIDE FOR THIS THIRTY (30) FOOT SETBACK, THE CONTRACTOR SHALL DETERMINE THE ALTERNATE LOCATIONS AND REQUEST THE ENGINEER'S APPROVAL TO USE THEM.
- 5
- THE CONTRACTOR SHALL NOT BE PERMITTED TO PARK ANY VEHICLES OR CONSTRUCTION EQUIPMENT DURING PERIODS OF INACTIVITY, WITHIN THIRTY (30) FEET OF THE EDGE OF PAVEMENT WHEN THE LANE IS OPEN TO TRAFFIC, UNLESS PROTECTED BY GUARDRAIL, BRIDGE RAIL, AND/OR BARRIERS INSTALLED FOR OTHER PURPOSES. PRIVATELY OWNED VEHICLES SHALL NOT BE ALLOWED TO BE PARKED WITHIN THIRTY (30) FEET OF THE EDGE OF AN OPEN TRAFFIC LANE AT ANY TIME UNLESS PROTECTED AS DESCRIBED ABOVE. WHERE THERE IS INSUFFICIENT RIGHT-OF-WAY TO PROVIDE FOR THIS THIRTY (30) FOOT SETBACK, THE CONTRACTOR SHALL DETERMINE THE ALTERNATE LOCATIONS AND REQUEST THE ENGINEER'S APPROVAL TO USE THEM.

SPECIAL NOTES

- 6
- TRAFFIC SHALL BE MAINTAINED AND DEVICES INSTALLED IN ACCORDANCE WITH THE CURRENT MANUAL ON UNIFORM TRAFFIC CONTROL PART VI, TDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND THE TENNESSEE STANDARD ROADWAY DRAWINGS.
- 7
- ANY ADDITIONAL SIGNS DEEMED NECESSARY BY THE ENGINEER SHALL BE FURNISHED, INSTALLED, AND PAID FOR UNDER THE APPROPRIATE BID ITEM.

- 8
- THE CONTRACTOR IS CAUTIONED THAT THERE MAY BE ACTIVE CONSTRUCTION PROJECTS IN THE AREA. IF SO, COORDINATION WILL BE REQUIRED WITH THE ADJOINING CONTRACTOR THROUGH THE ENGINEER TO AVOID CONFLICTS IN MAINTAINING TRAFFIC AND SIGNING.
- 9
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTENANCE OF ALL TEMPORARY CROSSTOVERS, DETOURS, PAVEMENTS, PAVEMENT MARKINGS, SIGNS, AND OTHER TRAFFIC CONTROL DEVICES CALLED FOR IN THESE PLANS AND ANY OTHER ITEMS THAT MAY BE CALLED FOR AT A LATER DATE, 24 HOURS A DAY, SEVEN DAYS A WEEK, UNTIL COMPLETION OF THE PROJECT TO INSURE PROPER OPERATION. THE CONTRACTOR SHALL ASSIGN A MINIMUM OF ONE PERSON AS TRAFFIC CONTROL REPRESENTATIVE AND THE ENGINEER SHALL ASSIGN A MINIMUM OF ONE PERSON AS TRAFFIC CONTROL REPRESENTATIVE. THESE PEOPLE SHALL BE IN CHARGE OF THE PROJECT FOR CONTINUOUS MAINTENANCE OF ALL TRAFFIC CONTROL DEVICES. THEY SHALL BE ON THE PROJECT AND BE CAPABLE OF BEING CONTACTED 24 HOURS A DAY, SEVEN DAYS A WEEK AND SHALL HAVE SUFFICIENT AUTHORITY TO ORDER WORK STOPPAGES AND IMMEDIATE REVISIONS TO SIGNING AND OTHER NECESSARY TRAFFIC CONTROL DEVICES AS APPROVED BY THE ENGINEER.
- 10
- CHANNELIZING DEVICES SHALL BE INSTALLED IN ACCORDANCE TO "PAVEMENT EDGE DROP-OFF TRAFFIC CONTROL NOTES" FOUND IN PLANS UNLESS OTHERWISE DIRECTED.
- 11
- THE CONTRACTOR SHALL PROVIDE PORTABLE BARRIER RAIL AND CRASH CUSHIONS AS CONDITIONS WARRANT. THE LOCATION OF ALL BARRIER RAILS AS PRESENTED ON THE PLANS ARE SUBJECT TO CHANGE AS DIRECTED AND APPROVED BY THE ENGINEER.
- 12
- VERTICAL PANELS SHALL BE MOUNTED ON PORTABLE BARRIER RAIL IN ACCORDANCE WITH TDOT STANDARD ROADWAY DRAWINGS. VERTICAL PANELS SHALL ALSO BE USED AT LOCATIONS WHERE OUTSIDE SHOULDERS ARE BEING USED FOR TRAFFIC. SPACING OF THESE PANELS SHALL BE 200 FEET MAXIMUM.
- 13
- THE CONTRACTOR SHALL COVER ANY SIGNS, EITHER EXISTING, PERMANENT, OR TEMPORARY, WHICH DO NOT PROPERLY APPLY TO THE CURRENT TRAFFIC PHASING, AND SHALL MAINTAIN THE COVERING UNTIL THE SIGNS ARE APPLICABLE OR ARE REMOVED.
- 14
- THE CONTRACTOR SHALL RELOCATE ANY SIGNS EITHER EXISTING OR TEMPORARY, AS NECESSARY TO PROPERLY APPLY TO THE CURRENT TRAFFIC PHASING. NO INDIVIDUAL PAYMENT SHALL BE MADE FOR THE TEMPORARY RELOCATION OF EXISTING SIGNS AS THESE WILL BE INCLUDED IN THE LUMP SUM PRICE BID FOR TRAFFIC CONTROL (712-01).
- 15
- THE CONTRACTOR'S VEHICLES SHALL ALWAYS MOVE WITH AND NOT AGAINST THE FLOW OF TRAFFIC. VEHICLES SHALL LEAVE WORK AREAS IN A MANNER WHICH WILL NOT BE HAZARDOUS TO OR INTERFERE WITH NORMAL TRAFFIC. VEHICLES SHALL NOT PARK OR STOP EXCEPT WITHIN WORK AREAS DESIGNATED BY THE ENGINEER.
- 16
- THE CONTRACTOR SHALL PROVIDE PORTABLE MESSAGE SIGNS FOR TRAFFIC CONTROL PURPOSES. PLACEMENT DURING CONSTRUCTION SHALL BE AS DIRECTED AND APPROVED BY THE ENGINEER. THE MESSAGE SIGN SHALL BE OPERABLE AT ALL TIMES. IN THE EVENT OF MECHANICAL/ELECTRICAL FAILURE THE MESSAGE BOARD SHALL BE REPLACED WITHIN TWENTY FOUR (24) HOURS.
- 17
- TRAFFIC CONTROL DEVICES SHALL BE MAINTAINED IN PROPER CONDITIONS THROUGHOUT THE LENGTH OF THE PROJECT.
- 18
- TRAFFIC CONES AND ADVANCE SHOULDER WORK SIGNS CAN BE USED FOR ALL SHORT DURATION AND SHORT TERM SHOULDER CLOSURES.
- 19
- ALL SIGNING FOR SHORT DURATION (LESS THAN 60 MINUTES) AND SHORT TERM (1-12 DAYLIGHT HOURS) WORK SHALL BE INSTALLED IN A TEMPORARY MANNER AND SHALL ONLY BE IN PLACE WHILE CONSTRUCTION ACTIVITIES ARE OCCURING. THIS TEMPORARY SIGNING CANNOT REMAIN IN PLACE OVERNIGHT UNLESS NIGHT WORK IS IN PROGRESS.



STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TRAFFIC
CONTROL
PLAN
NOTES

\$\$\$\$SYTIME\$\$\$\$\$\$\$\$
\$\$\$\$DCNSPEC\$\$\$\$\$\$\$\$

TRAFFIC CONTROL PLAN

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST	2006	19002-4177-04	12

ROAD CLOSURES

MOMENTARY STOPPING OF TRAFFIC ON THE INTERSTATE WILL BE PERMITTED DURING SIGN STRUCTURE INSTALLATIONS. WITHIN ONE WEEK OF THESE ACTIVITIES THE FOLLOWING SIGNS SHALL BE ERECTED IN THE DIRECTION AFFECTED BY THESE OPERATIONS:

- "BE PREPARED TO STOP" PLACED ON THE INSIDE AND OUTSIDE SHOULDERS ONE HALF MILE IN ADVANCE OF STRUCTURE.
- "PERIODIC ROAD CLOSURES (30 MIN. MAX) 00/00/00" PLACED ON THE INSIDE AND OUTSIDE SHOULDERS ONE HALF MILE IN ADVANCE OF STRUCTURE.

TWO UNIFORM POLICE OFFICERS SHALL BE PRESENT DURING THESE ACTIVITIES TO GRADUALLY SLOW TRAFFIC TO A STOP. ADDITIONAL OFFICERS MAY BE IN POSITION TO HALT TRAFFIC AT RAMP INTERSECTIONS WHEN NECESSARY. CLOSURES SHALL BE LIMITED TO 30 MINUTE MAXIMUM PERIODS WITHIN ANY ONE HOUR PERIOD BETWEEN 5:00 AM AND 11:00 AM SUNDAY MORNINGS ONLY. PAYMENT FOR UNIFORM OFFICERS TO BE INCLUDED IN LUMP SUM BID ITEM FOR TRAFFIC CONTROL.

LANE CLOSURES

LANE CLOSURES WILL BE ALLOWED WHENEVER ENCROACHMENT INTO THE TRAVEL LANE (i.e. WITHIN TWO FEET OF TRAVEL LANE) IS NECESSARY. LANE CLOSURES SHALL BE IMPLEMENTED IN ACCORDANCE WITH THE APPROPRIATE TCP DETAIL OR STANDARD DRAWING.

- NO LANES OF INTERSTATE MAY BE CLOSED BETWEEN 6:00 AM AND 7:00 PM WEEKDAYS.
- NO LANES MAY BE CLOSED ON ANY STREET ON DATES WHICH THE COLISEUM HAS AN EVENT, OR ON HOLIDAY WEEKENDS.

SHOULDER CLOSURES

IN AREAS OF CONSTRUCTION WITHIN (15) FEET OF THE EDGE OF THE TRAVEL LANE, THE SHOULDER SHALL BE CLOSED.

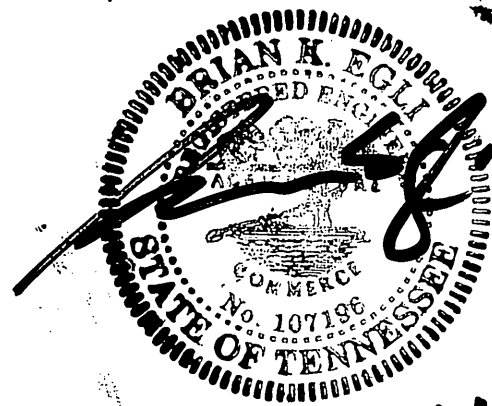
- EXCEPT FOR THE OVERHEAD WORK DESCRIBED BELOW, NO ADDITIONAL SHOULDER CLOSURES ARE ALLOWED IN EITHER DIRECTION DURING THE AM PEAK (6-9 AM) AND PM PEAK (4-7 PM).

TRAFFIC CONTROL DURING OVERHEAD SIGN WORK

IN AREAS OF CONSTRUCTION WITHIN (15) FEET OF THE EDGE OF THE TRAVEL LANE, THE SHOULDER SHALL BE CLOSED.

- ALL MEDIAN WORK THAT REQUIRES AN INTERIOR LANE CLOSURE SHALL BE PERFORMED ONLY DURING WEEKENDS FROM 7:00 PM FRIDAY NIGHT TO 6:00 AM MONDAY MORNING. ALL LANES MUST BE REOPENED BY 6:00 AM MONDAY MORNING.
- IF ALL FOUNDATION WORK AND BARRIER RECONSTRUCTION WORK IS NOT COMPLETED BY 6:00 AM MONDAY MORNING, A FULL SHOULDER CLOSURE WITH PORTABLE BARRIER RAIL SHALL BE IN PLACE BY 6:00 AM MONDAY MORNING.
- ALL FOUNDATION AND MEDIAN WORK AT A PARTICULAR LOCATION MUST BE COMPLETED IN NO MORE THAN 4 CONSECUTIVE WEEKENDS.
- MOMENTARY STOPPING OF TRAFFIC WILL BE PERMITTED DURING SIGN INSTALLATIONS AS NOTED PREVIOUSLY

OTHER SIGN FOUNDATIONS: ALL OTHER SIGN FOUNDATIONS NOT INSTALLED IN THE MEDIAN SHALL BE CONSTRUCTED IN A MANNER TO MINIMIZE THE DISRUPTION OF TRAFFIC. SHORT TERM SINGLE LANE CLOSURES WILL BE PERMITTED AS DESCRIBED ABOVE; HOWEVER, THE FOOTINGS SHOULD BE INSTALLED UTILIZING ONLY A SHOULDER CLOSURE WHERE POSSIBLE. ALL LANE CLOSURES SHALL CONFORM TO ALL TDOT STANDARD DRAWINGS AND THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.





SEE STANDARD DRAWINGS T-WZ-11 AND T-WZ-18 FOR LANE AND LONG TERM SHOULDER CLOSURES.

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST	2006	19002-4177-04	13

REV.1, 2/22/06, ADDED ALTERNATE B
REVISED NOTES

▲ TABULATED TRAFFIC CONTROL DEVICES			
ITEM NO.	DESCRIPTION	UNIT	TOTAL
712-01	TRAFFIC CONTROL	LS	1
712-04.01	FLEXIBLE DRUMS (CHANNELIZING)	EACH	471
712-05.03	WARNING LIGHTS (TYPE C)	EACH	117
712-08.03	ARROW BOARD (TYPE C)	EACH	5
712-08.06	UNIFORMED POLICE OFFICER	HOURL	250
713-16.02	TRUCK MOUNTED IMPACT ATTENUATOR (W/FLASH ARROW BOARD)	EACH	9
725-02.41	PORTABLE VARIABLE MESSAGE SIGN	EACH	4
705-08.51	PORTABLE IMPACT ATTENUATOR NCHRP350,TL3	EACH	6
712-02.02	INTERCONNECTED PORTABLE BARRIER RAIL	LF	2760
712-06.01	VERTICAL PANELS	SF	36
712-06.10	NEW SIGNS (CONSTRUCTION)	SF	2736
712-06.10	NEW SIGNS (CONSTRUCTION)	SF	2064

QUANTITIES ARE CARRIED OVER AND INCLUDED ON THE ESTIMATED QUANTITIES SHEET

- ① THIS ITEM SHALL BE A PORTABLE ENERGY ABSORBING TERMINAL MEETING THE REQUIREMENTS OF NCHRP 350 FOR TEST LEVEL 3. EXAMPLES WOULD BE QUAD-GUARD, A REACT 350, OR A TRACC. THE PAY ITEM WILL INCLUDE FURNISHING AND INSTALLING ALL COMPONENTS AS LISTED ON THE MANUFACTURER'S BILL OF MATERIALS. SHOP DRAWINGS OF THE PORTABLE ENERGY TERMINALS MUST BE SUBMITTED TO AND APPROVED BY THE DIVISION OF STRUCTURES PRIOR TO INSTALLATION.
- ② ALL TRUCK MOUNTED ATTENUATORS SHALL MEET ALL RECOMMENDED NCHRP 350 TL3 CRITERIA FOR CRASH CUSHIONS. THE ARROW BOARDS UTILIZED SHALL BE TYPE B FLASHING BOARDS OR APPROVED EQUAL. (SEE STD. DWG. T-FAB-1)
- ③ LOCATIONS TO BE DETERMINED BY THE ENGINEER

NEW SIGNS (CONSTRUCTION) ALT. A					
DESCRIPTION	NUMBER REQUIRED	SIZE	SIGN I.D.	UNIT	TOTAL
END ROAD WORK	14	48" X 24"	G20-2A	SF	112
ROAD WORK 1 MILE	18	48" X 48"	W20-1	SF	288
ROAD WORK 1/2 MILE	18	48" X 48"	W20-1	SF	288
LEFT LANE CLOSED 1/2 MILE	18	48" X 48"	W20-5L	SF	288
LEFT LANE CLOSED 1500 FT	18	48" X 48"	W20-5L	SF	288
LEFT LANE CLOSED-MERGE SYMBOL	18	48" X 48"	W4-2L	SF	288
RIGHT SHOULDER CLOSED 1000 FT.	9	48" X 48"	W21-5R	SF	144
RIGHT SHOULDER CLOSED	9	48" X 48"	W21-5R	SF	144
LEFT SHOULDER CLOSED 1000 FT.	12	48" X 48"	W21-5L	SF	192
LEFT SHOULDER CLOSED	12	48" X 48"	W21-5L	SF	192
PERIODIC ROAD CLOSINGS	16	48" X 48"	SPECIAL	SF	256
BE PREPARED TO STOP	16	48" X 48"	W20-7B	SF	256
ITEM NO. 712-06.10 NEW SIGNS (CONSTRUCTION TOTAL)				SF	2736

▲ NEW SIGNS (CONSTRUCTION) ALT. B					
DESCRIPTION	NUMBER REQUIRED	SIZE	SIGN I.D.	UNIT	TOTAL
END ROAD WORK	14	48" X 24"	G20-2A	SF	112
ROAD WORK 1 MILE	18	48" X 48"	W20-1	SF	288
ROAD WORK 1/2 MILE	18	48" X 48"	W20-1	SF	288
LEFT LANE CLOSED 1/2 MILE	4	48" X 48"	W20-5L	SF	64
LEFT LANE CLOSED 1500 FT	4	48" X 48"	W20-5L	SF	64
LEFT LANE CLOSED-MERGE SYMBOL	4	48" X 48"	W4-2L	SF	64
RIGHT SHOULDER CLOSED 1000 FT.	9	48" X 48"	W21-5R	SF	144
RIGHT SHOULDER CLOSED	9	48" X 48"	W21-5R	SF	144
LEFT SHOULDER CLOSED 1000 FT.	12	48" X 48"	W21-5L	SF	192
LEFT SHOULDER CLOSED	12	48" X 48"	W21-5L	SF	192
PERIODIC ROAD CLOSINGS	16	48" X 48"	SPECIAL	SF	256
BE PREPARED TO STOP	16	48" X 48"	W20-7B	SF	256
ITEM NO. 712-06.10 NEW SIGNS (CONSTRUCTION TOTAL)				SF	2064

QUANTITIES ARE CARRIED OVER AND INCLUDED ON THE ESTIMATED QUANTITIES SHEET

- ④ INCLUDES THE INSTALLATION AND MAINTENANCE OF A NEW SIGN PANEL, SHEETING AND SUPPORTS. SEE SPECIAL PROVISION 712F.
- ⑤ SIGN QUANTITIES ARE BASED ON THE FOLLOWING MAXIMUM SETUPS AT ONE TIME. NO SEPARATE PAYMENT WILL BE ALLOWED FOR MOVING SIGNS FROM ONE LOCATION TO ANOTHER.

* 4 OVERHEAD MEDIAN FOOTINGS (SIGNS 1,2&6,3,5)

3 LOCATIONS FOR LONG TERM SHOULDER CLOSURES (SIGNS 3 AND 5 COUNT AS ONE (1) LOCATION)

3 LOCATIONS FOR LEFT LANE WEEKEND CLOSURES (SIGNS 3 AND 5 COUNT AS ONE (1) LOCATION)

* 9 LOCATIONS FOR SHORT TERM SHOULDER CLOSURES FOR WORK WITH EXISTING SIGN SUPPORTS AND NEW FOOTINGS BEYOND THE OUTSIDE SHOULDER. (SIGNS 1,2,3,4,5,6,7B,8, AND EXISTING VMS).

* 2 LOCATIONS FOR SHORT TERM LEFT LANE CLOSUREFOR WORK IN THE MEDIAN FOR THE EXISTING VMS AND SIGN 7A. CLOSURES ON WEEKENDS OR WEEKDAYS BETWEEN 8 PM AND 5 AM.



- ⑥ SIGN QUANTITIES ARE BASED ON THE FOLLOWING MAXIMUM SETUPS AT ONE TIME. NO SEPARATE PAYMENT WILL BE ALLOWED FOR MOVING SIGNS FROM ONE LOCATION TO ANOTHER.

* 9 LOCATIONS FOR SHORT TERM SHOULDER CLOSURES FOR WORK WITH EXISTING SIGN SUPPORTS AND NEW FOOTINGS BEYOND THE OUTSIDE SHOULDER. (SIGNS 1,2,3,4,5,6,7B,8).

* 1 LOCATION FOR SHORT TERM LEFT LANE CLOSURE FOR WORK IN THE MEDIAN FOR THE EXISTING SIGN 7A. CLOSURES ON WEEKENDS OR WEEKDAYS BETWEEN 8 PM AND 5 AM.

