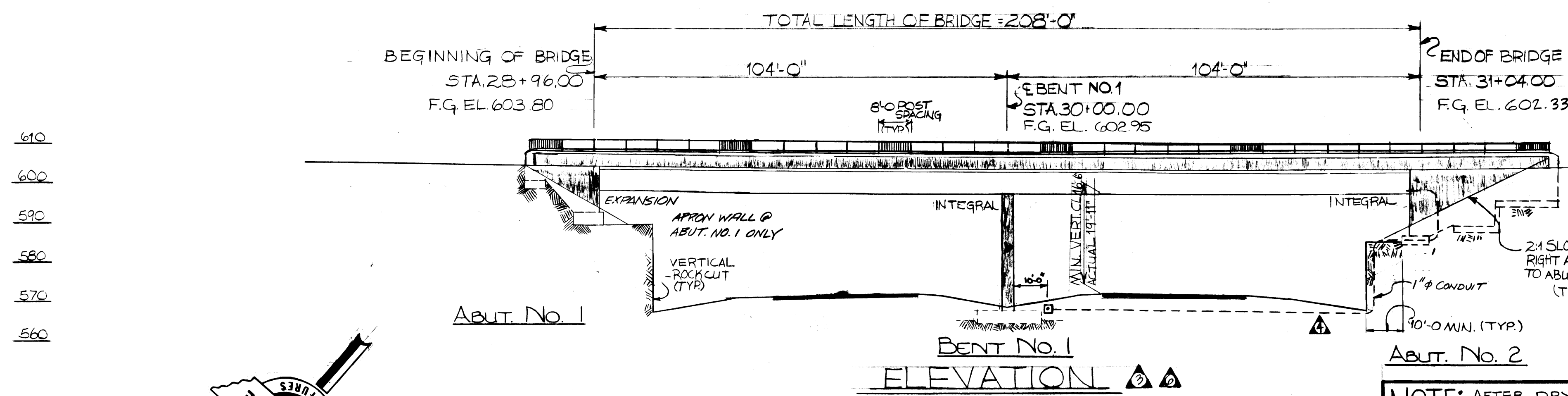


PROJECT NO.	YEAR	SHEET NO.
1-440-4(4A)206	1982	

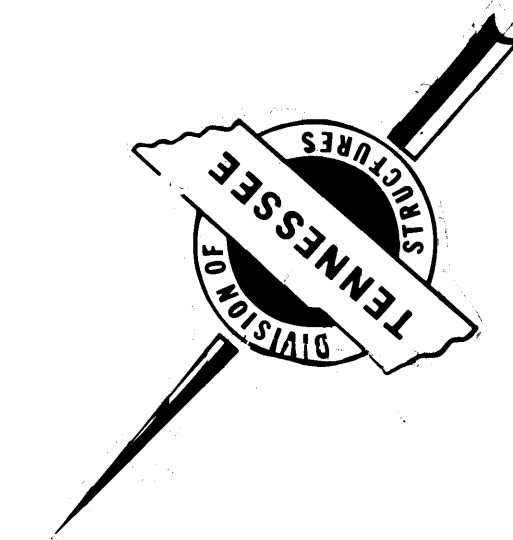
  

REVISIONS			
NO.	DATE	BY	BRIEF DESCRIPTION
1	5-24-82	MAH	SPECIAL NOTE
2	10-7-82	CNK	GENERAL REVISIONS
3	9-19-83	MEF	GENERAL REVISIONS
4	10-17-83	MEF	ADDED LIGHTING DETAILS
5	2-2-84	MH	REVISED PLAZA LAYOUT (SIDEWALK, CURBS, AND FUTURE WALL) AND NOTES
6	10-2-84	MH	REVISED FENCE DETAILS
7	3-8-91	MH	LATEST REVISION DATE

NOTE: ALL EXPOSED SURFACES OF THE ABUTMENT, BENTS, PARAPET INSET, AND RETAINING WALLS SHALL RECEIVE A DECORATIVE FORM FINISH. SEE SURFACE FINISH SKETCH ON DWG. NO. M-94-36.

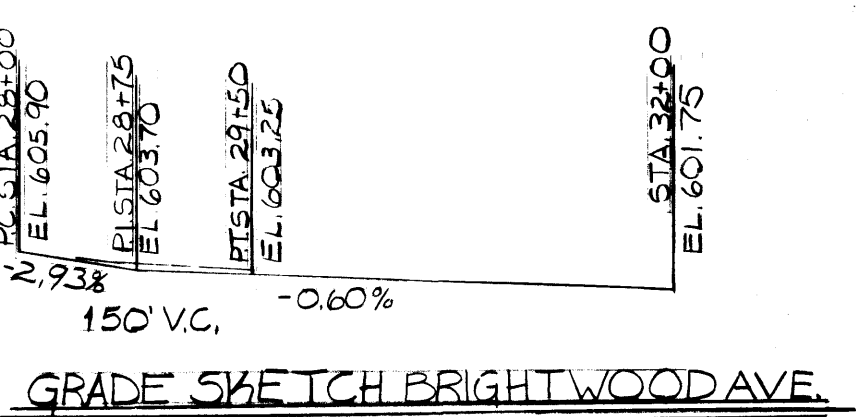
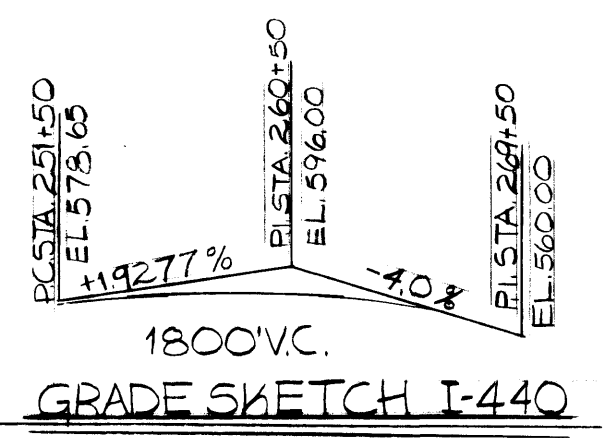
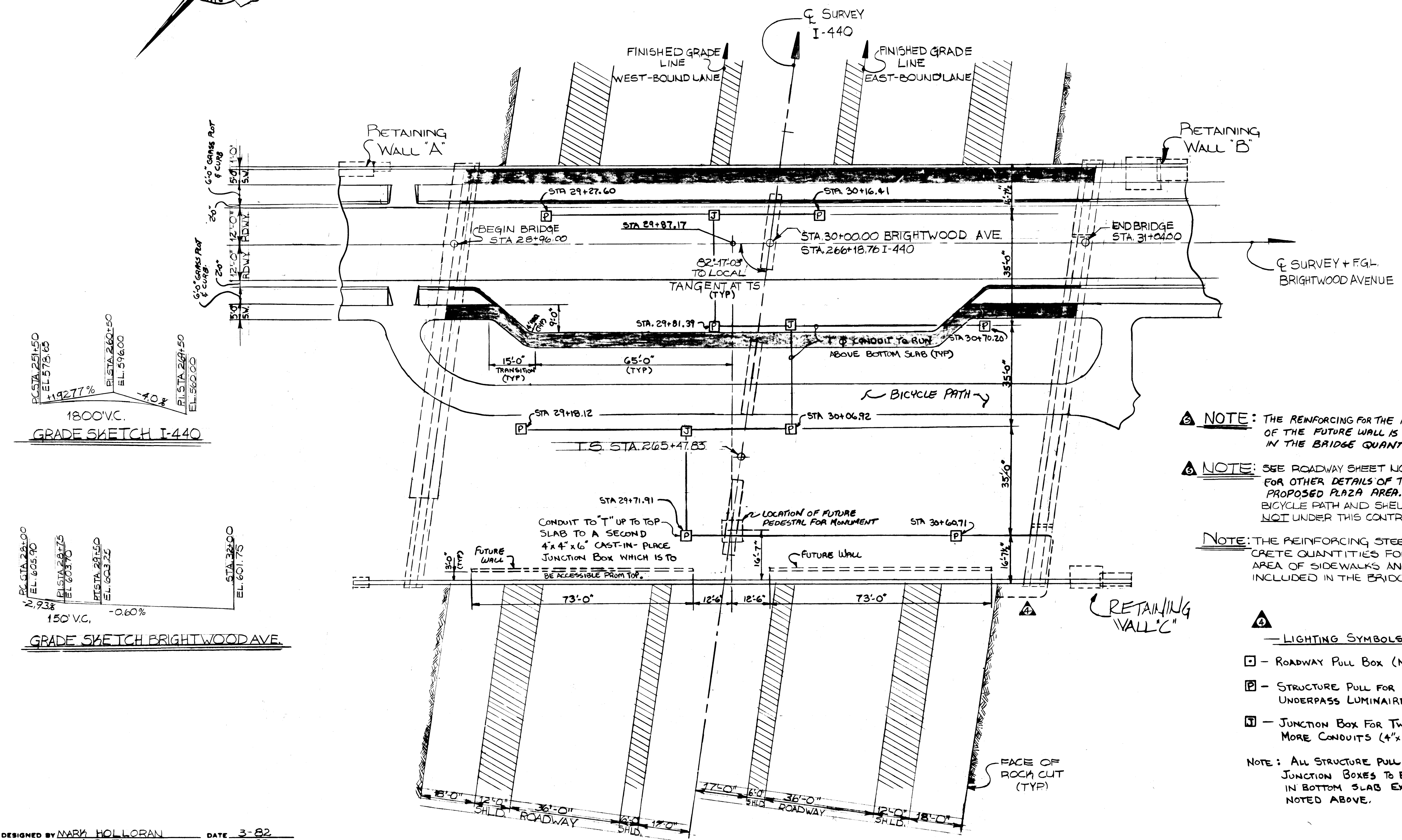


NOTE: AFTER DRY EXCAVATION TO THE TOP OF ROCK IS ACCOMPLISHED, THE DIVISION OF STRUCTURES WILL BE NOTIFIED PRIOR TO ANY FURTHER EXCAVATION AT ABUTMENTS.



**LIST OF DRAWINGS**

TITLE	DWG NO	LATEST REVISION DATE
LAYOUT OF BRIDGE	M-94-35	3-8-91
GENERAL NOTES AND ESTIMATED QUANTITIES	M-94-36	3-8-91
FOUNDATION DATA	M-94-37	
SUPERSTRUCTURE	M-94-38	3-8-91
SUPERSTRUCTURE DETAILS	M-94-39	7-22-82
SUPERSTRUCTURE DETAILS	M-94-40	
SUPERSTRUCTURE DETAILS @ ABUTMENT NO. 1	M-94-41	
SUPERSTRUCTURE DETAILS @ ABUTMENT NO. 2	M-94-42	
ABUTMENT NO. 1	M-94-43	5-26-82
ABUTMENT NO. 1 DETAILS	M-94-44	
ABUTMENT NO. 1 DETAILS	M-94-44A	
ABUTMENT NO. 2	M-94-45	5-26-82
ABUTMENT NO. 2 DETAILS	M-94-46	
RETAINING WALLS A, B, & C	M-94-46A	
BENT NO. 1	M-94-47	5-26-82
BILL OF STEEL	M-94-48	



**LIST OF STANDARD DRAWINGS**

STANDARD PILE DETAILS	H-5-111	11-27-73
STANDARD REINFORCEMENT BAR SUPPORT	K-80-14	8-27-76
MISCELLANEOUS ABUTMENT AND DRAINAGE DETAILS	K-85-150	1-09-75

**TENNESSEE STANDARD PRESTRESSED BRIDGE DECK PANELS**

	K-80-15A	
--	----------	--

**LIST OF SPECIAL PROVISIONS**

NO.	REGARDING	LATEST REVISION DATE
105A	APPROVAL OF SHOP DRAWINGS	09-08-81
907A	EPOXY COATED REINFORCING STEEL	09-03-81

NOTE: THE REINFORCING FOR THE ATTACHMENT OF THE FUTURE WALL IS INCLUDED IN THE BRIDGE QUANTITIES.

NOTE: SEE ROADWAY SHEET NO. 22 FOR OTHER DETAILS OF THE PROPOSED PLAZA AREA. BICYCLE PATH AND SHELTER CONSTRUCTION NOT UNDER THIS CONTRACT.

NOTE: THE REINFORCING STEEL AND CONCRETE QUANTITIES FOR THE SHADDED AREA OF SIDEWALKS AND CURBS ARE INCLUDED IN THE BRIDGE QUANTITIES.

- LIGHTING SYMBOLS**
- - Roadway Pull Box (N.I.C.)
  - ▣ - Structure Pull for Future Underpass Luminaire (4'x4'x6")
  - ▤ - Junction Box for Two(2) or More Conduits (4'x4'x6")
- NOTE: ALL STRUCTURE PULL BOXES & JUNCTION BOXES TO BE CAST IN BOTTOM SLAB EXCEPT AS NOTED ABOVE.

DESIGNED BY MARK HOLLORAN DATE 3-82  
 DRAWN BY BEN OWENS DATE 3-82  
 SUPERVISED BY ROGER L. HARRISON DATE 3-82  
 CHECKED BY MARK HOLLORAN DATE 4-82

STATE OF TENNESSEE  
 DEPARTMENT OF TRANSPORTATION  
 BUREAU OF HIGHWAYS

LAYOUT  
 BRIGHTWOOD AVENUE  
 OVER INTERSTATE 440  
 STATION 266+18.76  
 DAVIDSON COUNTY

CORRECT *Clifton L. Howell* 1982  
 ENGINEER OF STRUCTURES

APPROVED *David S. Evans*  
 DIRECTOR OF HIGHWAYS

PROJECT NO.	YEAR	SHEET NO.
I-440-449)206	1982	

REVISIONS		
NO.	DATE	BRIEF DESCRIPTION
1	5-24-82	MAH. REDUCED QUANTITIES
2	10-1-82	C.N.K. GENERAL REVISIONS.
3	9-19-83	MEF. REVISED QUANTITIES
4	10-11-83	LAF. REVISED QUANTITIES
5	10-17-83	MEF. ADDED LIGHTING NOTE
6	2-2-84	MH. REVISED SURFACE FINISH SKETCH AND LINED OIL TREATMENT
7	10-2-84	MH. DELETED CHAIN LINK FENCE AND ADDED DECORATIVE FENCE
8	3-8-91	MH. QUANTITY FOR ITEM 604-03-01

**CONCRETE FINISHES:** PORTIONS OF THE BRIDGE SURFACE DESIGNATED TO RECEIVE A CLASS 2 'RUBBED FINISH' SHALL BE FINISHED ACCORDING TO SUBSECTION 604-22 OF THE STANDARD SPECIFICATIONS. PORTIONS OF THE BRIDGE SURFACE DESIGNATED TO RECEIVE A DECORATIVE FORM FINISH SHALL BE FORMED USING A FORMLINER SIMILAR TO BUJAVE FORMLINER 6G208 CONCRETE HARP LITHOTEX FORMLINER. FRACTURED FINISH GROOVED T-150, SYMONS 3/4" NARROW FRACTURED FIN PIC 30909-9 OR EQUAL. AFTER STRIPPING FORMLINERS, THE DECORATIVE FORM FINISHED AREAS SHALL RECEIVE A CLASS 1, ORDINARY FINISH IN ACCORDANCE WITH SUBSECTION 604.23 OF THE STANDARD SPECIFICATIONS. THE CONTRACTOR SHALL SUBMIT TO THE ENGINEER FOR APPROVAL A SAMPLE CASTING USING THE FORMLINER TO BE FURNISHED. THE COST OF ALL CONCRETE FINISHES SHALL BE INCLUDED IN THE UNIT PRICE OF ITEMS BID ON. SURFACES RECEIVING A DECORATIVE OR CLASS 2 FINISH SHALL NOT RECEIVE A LINED OIL TREATMENT. SEE SURFACE FINISH SKETCH THIS SHEET. UNDER NO CIRCUMSTANCES WILL MECHANICALLY FRACTURED SURFACES BE ALLOWED. ESTIMATED QUANTITIES ARE BASED ON PLANS DIMENSIONS.

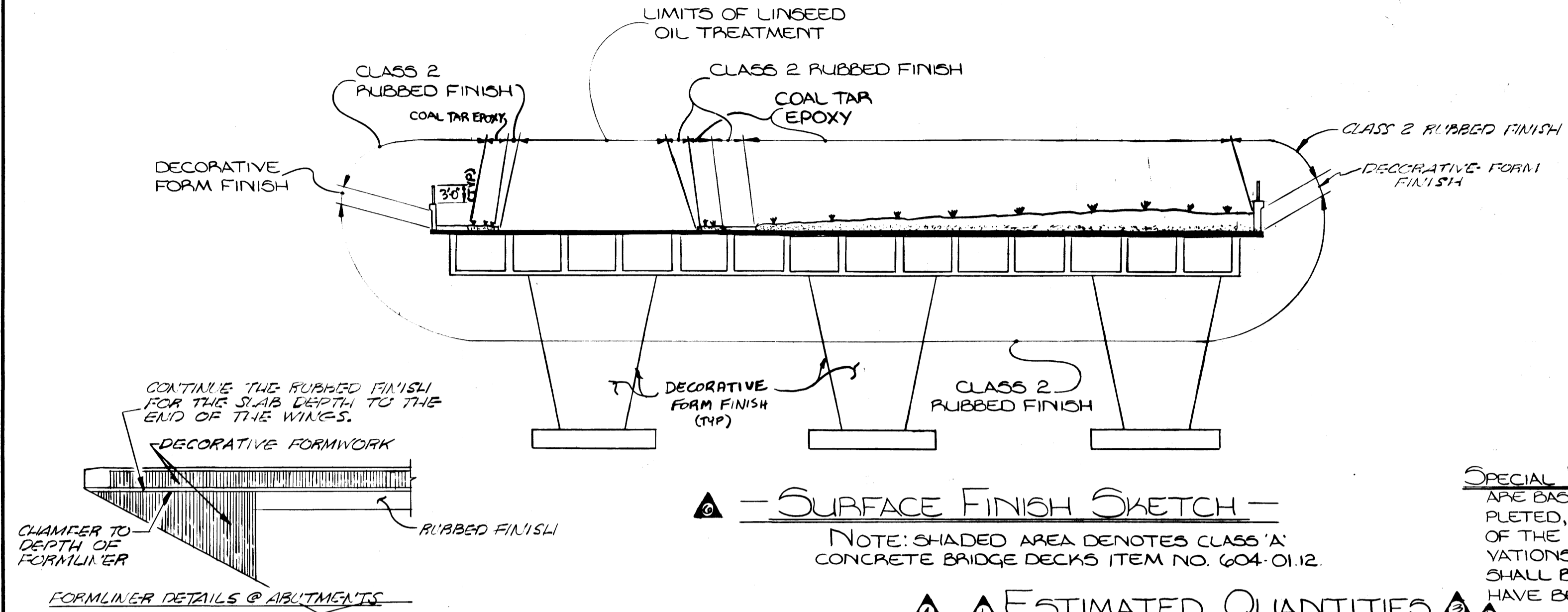
**GENERAL NOTES:**  
 - SPECIAL NOTE FOR CONCRETE BRIDGE DECK: CLASS 'A' CONCRETE FOR BRIDGE DECKS SHALL BE IN ACCORDANCE WITH SECTION 604 EXCEPT AS FOLLOWS. MINIMUM 28 DAYS COMPRESSIVE STRENGTH = 4500 P.S.I. MAXIMUM WATER/CEMENT = 50 GAL/BAK OF CEMENT. AIR CONTENT = 6% ± 2%. SEE SURFACE FINISH SKETCH FOR LIMITS.  
 - SPECIFICATIONS: STANDARD ROAD AND BRIDGE SPECIFICATIONS OF THE TENNESSEE DEPARTMENT OF TRANSPORTATION, (MARCH, 1981 EDITION).  
 - LOADING: H-20-44.  
 - DESIGN SPECIFICATIONS: AASHTO 1977 EDITION WITH ADDENDA.  
 - CONCRETE: TO BE CLASS 'A' (CAST IN PLACE).  $f'_c$  3000 P.S.I. EXCEPT CONCRETE FOR BRIDGE DECK. SEE SPECIAL NOTE FOR CONCRETE BRIDGE DECKS.  
 - BRIDGE DECK FORMS: BRIDGE DECK FORMS FOR CONCRETE DECKS SHALL BE CONSTRUCTED USING EITHER REMOVABLE FORMS OR PERMANENT FORMS. PERMANENT FORMS MAY BE EITHER REMAIN-IN-PLACE STEEL OR PRECAST, PRESTRESSED CONCRETE PANELS. IN EITHER CASE, FORMS SHALL BE ATTACHED BY MEANS OTHER THAN WELDING TO SUPPORT MEMBERS. THE CONTRACTOR SHALL TAKE STEPS TO ASSURE THE STABILITY OF THE EXTERIOR GIRDER AGAINST TWISTING OR OVERTURNING DURING SLAB POURING OPERATIONS.

**NOTE:** ALL EXPOSED SURFACES OF THE ABUTMENT, BENTS, PARAPET INSET, AND RETAINING WALLS SHALL RECEIVE A DECORATIVE FORM FINISH.

**SPECIAL NOTE FOR WINGWALLS:** THE FOOTING ELEVATIONS SHOWN FOR THE WINGWALLS ARE BASED ON ASSUMED ROCK LINES. AFTER EXCAVATION TO ROCK HAS BEEN COMPLETED, THE ENGINEER SHALL SUBMIT TO THE ENGINEER OF STRUCTURES A PROFILE OF THE ROCK LINE FOR EACH WINGWALL IN ORDER TO DETERMINE FINAL FOOTING ELEVATIONS AND WINGWALL LENGTHS. NO REINFORCING STEEL FOR THE WINGWALLS SHALL BE ORDERED UNTIL FINAL FOOTING ELEVATIONS AND WINGWALL LENGTHS HAVE BEEN ESTABLISHED.

- **NOTE:** BEARING PADS SHALL BE IN ACCORDANCE WITH THE DETAILS AND DIMENSIONS SHOWN ON DRAWING M-94-43. THE CONTRACTOR MAY ALSO SUBMIT ALTERNATE DETAILS FOR APPROVAL. SEE NOTE ⑥.  
 - **REINFORCING STEEL:** TO BE ASTM A615 GRADE 60. STANDARD CASH HOOK DETAILS APPLY UNLESS OTHERWISE NOTED ON BILL OF STEEL. BENDING DIMENSIONS SHOWN ARE BASED ON GRADE 60. SPACING DIMENSIONS ARE CENTER TO CENTER UNLESS OTHERWISE NOTED ON DETAIL DRAWINGS. THE SUFFIX 'E', FOR BARS 50 MARKED, DENOTES EPOXY COATED REINFORCEMENT. SEE SPECIAL PROVISION 907A.  
 - **SPECIAL NOTE - FOOTINGS FOR BENTS AND ABUTMENTS:** AFTER EXCAVATION TO ROCK FOR FOOTING HAS BEEN COMPLETED, HOLES 6" DEEP SHALL BE DRILLED AT POINTS DESIGNATED BY THE ENGINEER. FROM THE RESULTS OBTAINED, THE ENGINEER SHALL DETERMINE THE FINAL FOOTING ELEVATIONS. NO REINFORCING STEEL FOR BENT AND ABUTMENT COLUMNS AND ABUTMENT FOOTINGS SHALL BE ORDERED UNTIL FINAL FOOTING ELEVATIONS HAVE BEEN DETERMINED. SEE SPECIAL NOTE FOR WINGWALLS.  
 - **BRIDGE RAIL SYSTEM:** BUILD PARAPETS ACCORDING TO DETAILS SHOWN ON DWG. M-94-40.  
 - **SHOP DRAWINGS:** SEE SPECIAL PROVISION NO. 105A.

- **NOTE:** THE CONTRACTOR SHALL SUBMIT SHOP PLANS FOR THE FENCE AND ITS INSTALLATION TO THE ENGINEER OF STRUCTURES FOR APPROVAL. FENCING TO BE 2 INCH BLACK DIAMOND MESH, THERMAL BONDED, VINYL-CLAD CHAIN LINK FABRIC. THE FENCING SHALL BE 9 GAGE, COMMERCIAL QUALITY, MEDIUM-HIGH CARBON, HOT-DIPPED GALVANIZED STEEL WIRE, MEETING THE REQUIREMENTS OF ASTM A116, AND SHALL HAVE A MINIMUM TENSILE STRENGTH OF 75,000 P.S.I. THE WIRE SHALL HAVE A BONDED COATING OF PLASTICIZED POLY-VINYL CHLORIDE, HAVING A MINIMUM THICKNESS OF 0.015 INCHES. POSTS, RAILS AND FRAMEWORK FOR THE CAGE SHALL BE GALVANIZED STRUCTURAL STEEL OR SCHEDULE 40 PIPE, AS APPROPRIATE, CLAD IN A BONDED VINYL COATING, MATCHING THE COLOR OF THE MESH. ALL MISCELLANEOUS CONNECTIONS FOR POSTS, RAILS AND FRAMEWORK SHALL BE VINYL-CLAD AND GALVANIZED, EXCEPT BASE PLATES, U-BOLTS, HEX NUTS AND WASHERS WHICH SHALL ONLY BE GALVANIZED. SEE DETAIL 'X' ON DWG. M-94-40.



FORMLINER DETAILS @ ABUTMENTS

**Estimated Quantities**

ITEM NO.	204-02.01	204-04.01	204-05	604-02.03	604-03.01	604-03.02	604-03.03	920-01.95	710-10.	710-11	920-01.11	604-01.12
ITEM	DRY EXCAVATION (BRIDGES) C.Y.	ROCK EXCAVATION (BRIDGES) C.Y.	ROCK DRILLING (BRIDGES) L.F.	EPOXY COATED REINFORCING STEEL LBS.	CLASS 'A' CONCRETE (BRIDGES) C.Y.	STEEL BAR REINFORCEMENT (BRIDGES) LBS.	LINED OIL TREATMENT SY.	DECORATIVE FENCE L.F.	6" REFORCATED C.M. PIPE (18 GA.) W/POPOUS BACKFILL L.F.	6" C.M. PIPE UNDERDRAINS (18 GA.) L.F.	ROADWAY EXPANSION DEVICE ⑤ L.F.	CLASS 'A' CONCRETE (BRIDGE DECK) C.Y.
SUPERSTRUCTURE				471,682	1,549.2	289,953	891					725.2
ABUTMENT NO. 1	694	74	36	3,164	176.6	14,060			145	19	142	
BENT NO. 1	93	649	36		383.1	57,578						
ABUTMENT NO. 2	624	13	36		160.0	20,010			148	19		
RETAINING WALL 'A'	10	11		134	3.8	211						
RETAINING WALL 'B'	57	46		337	22.2	1,314						
RETAINING WALL 'C'	57	46			22.2	1,314						
TOTAL	1,540	839	108	475,317	2,317.1	375,440	891	516	293	38	142	725.2

- ① EXCAVATION BASED ON LOWER ROADWAY PROFILE.
- ② NOTE: THE COST OF BITUMINOUS-FIBERBOARD TO BE INCLUDED IN BRIDGE ITEMS BID ON.
- ③ NOTE: COST OF POLYETHYLENE SHEETING AND ALL MISCELLANEOUS ITEMS NECESSARY FOR INSTALLATION TO BE INCLUDED IN COST OF REFORCATED C.M. PIPE.
- ④ THE COST OF THE MATERIALS AND INSTALLATION OF THE COVER PLATE FOR THE EXPANSION DEVICE UNDER FILL IS TO BE INCLUDED IN THE PRICE BID FOR ITEM 920-01.11. SEE DWG. NO. M-94-43 FOR EXAMPLE DETAIL.
- ⑤ NOTE: ACCEPTABLE EXPANSION DEVICES INCLUDE:  
 A) ON-FLEX 25 BY STRUCTURAL ACCESSORIES, INC.  
 B) AS200 BY ACME HIGHWAY PRODUCTS, INC.  
 C) WABO-MAUREA 3200 BY WATSON BOWMAN ASSOCIATES, INC. OR EQUAL.
- ⑥ NOTE: AT THE CONTRACTOR'S OPTION, ALTERNATE BEARING DEVICES MAY BE SUBMITTED FOR APPROVAL TO THE ENGINEER OF STRUCTURES. THE BEARINGS SHALL BE CAPABLE OF PROVIDING THE FOLLOWING MINIMUM REQUIREMENTS UNDER SERVICE LOADS:

BEARING	TOTAL MOVEMENT	DEAD LOAD REACTION	LIVE LOAD REACTION
M-94-43	1/4"	212 KIPS	33 KIPS

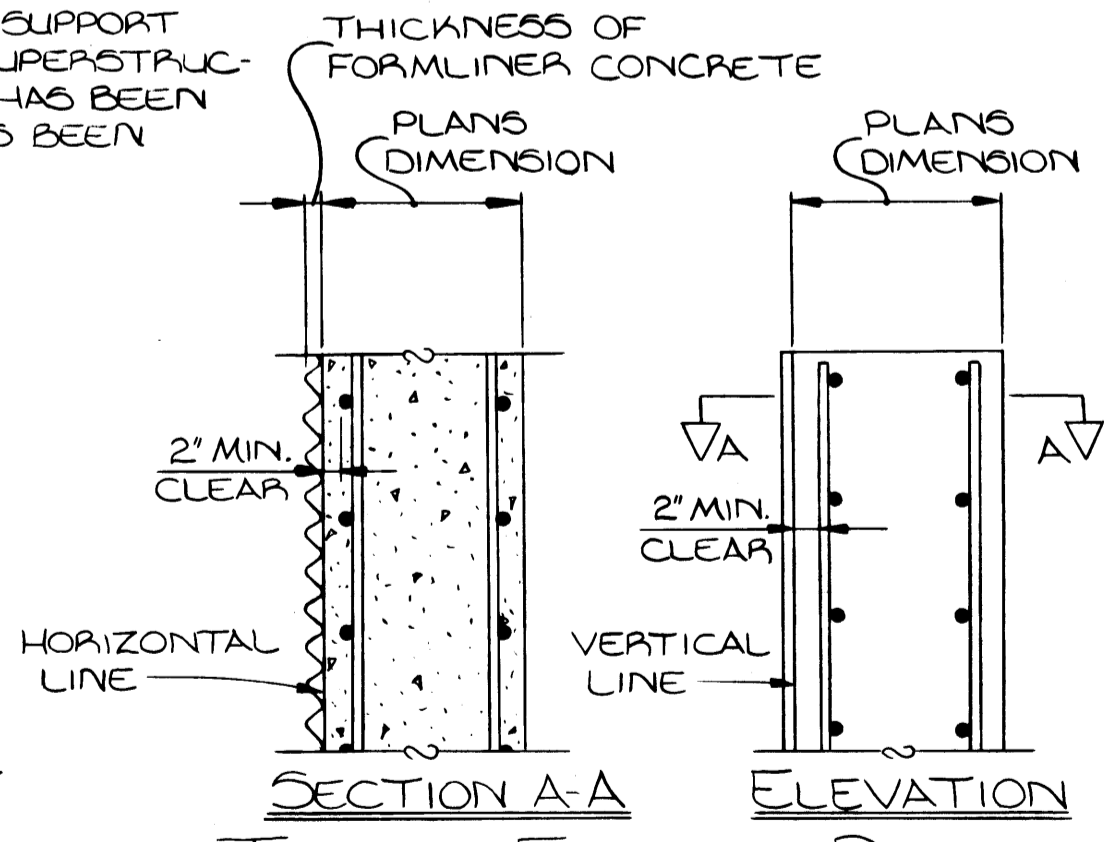
- ⑦ NOTE: CONCRETE AND REINFORCING STEEL FOR PARAPET IS INCLUDED IN ITEM 604-03.01, 604-02.03, AND 604-03.02.
- ⑧ THE PRICE BID FOR ITEM NO. 920-01.75 SHALL INCLUDE ALL LABOR, EQUIPMENT AND MATERIALS NECESSARY FOR INSTALLATION, AND SHALL INCLUDE ALL FITTINGS REQUIRED. SEE DETAILS ON DWG. NO. M-94-40.
- ⑨ NOTE: COST OF COAL TAR EPOXY IS TO BE INCLUDED IN ITEMS BID ON.
- ⑩ LUMP SUM: ITEM 714-01.03 INCLUDES 560 FT. OF 1" φ CONDUIT WITH PULL WIRES, 13 JUNCTION OR PULL BOXES AND ALL NECESSARY MATERIALS FOR INSTALLATION OF STRUCTURE LIGHTING.

ITEM NO.	908-21.04
ITEM	BEARINGS (M-94-43) EA.
SUPERSTRUCTURE	
ABUTMENT NO. 1	16
BENT NO. 1	
ABUTMENT NO. 2	
RETAINING WALL 'A'	
RETAINING WALL 'B'	
RETAINING WALL 'C'	
TOTAL	16

**GENERAL NOTES - CONT.:**  
 - **SPECIAL NOTE FOR UTILITIES:** IT IS INTENDED THAT THE COST OF MATERIALS AND LABOR NECESSARY FOR THE COMPLETE INSTALLATION OF UTILITIES SHALL BE BORNE BY OTHERS AND SHALL NOT BE PAID FOR AS A PART OF THIS CONTRACT. THE CONTRACTOR SHALL COOPERATE WITH OTHERS IN THE INSTALLATION OF UTILITIES WITH NO ADDITIONAL COMPENSATION ALLOWED THE CONTRACTOR AS A RESULT.  
 - **NOTE:** THE CONTRACTOR SHALL SUPPORT THE ABUTMENTS UNTIL THE SUPERSTRUCTURE IS IN PLACE, FALSEWORK HAS BEEN REMOVED AND BACKFILLING HAS BEEN COMPLETED.

ITEM NO.	714-01.03
ITEM	STRUCTURE LIGHTING L.S.
TOTAL	1

**SPECIAL NOTE FOR FILL PLACEMENT ON BRIDGE DECK:** THE FILL MATERIAL SHALL BE PLACED ON THE BRIDGE DECK IN THE LOCATION AND TO THE DIMENSIONS SHOWN ON ROADWAY SHEET NO. 22. THE CONTRACTOR SHALL TAKE THE NECESSARY PRECAUTIONS DURING THE PLACEMENT OF THE FILL MATERIAL TO PROTECT THE STRUCTURE FROM DAMAGE DUE TO EXCESSIVE LOADS OR OTHER DAMAGE DUE TO CONSTRUCTION EQUIPMENT. THE MAXIMUM ALLOWABLE WEIGHT OF THE LOADED TRUCKS OR SPREADING EQUIPMENT SHALL BE 36 TONS. BEFORE SPREADING THE MAXIMUM ALLOWABLE DEPTH OF FILL MATERIAL SHALL BE SIX (6) FEET AND NO DUMPING WILL BE ALLOWED ON THE CANTILEVER PORTIONS OF THE BRIDGE DECK. EXTREME CARE SHALL BE TAKEN WHEN PLACING FILL MATERIAL AGAINST THE BRIDGERAILS AND CURBS. ALL CONSTRUCTION EQUIPMENT ON THE BRIDGE DECK SHALL HAVE RUBBER TIRES. THE FILL MATERIAL SHALL CONSIST OF A SIX INCH GRAVEL BASE AND A MAXIMUM OF 2'-6" OF EARTH FILL WITH BODDING. A FILTER CLOTH SHALL SEPARATE THE GRAVEL BASE FROM THE EARTH FILL. FOR PAYMENT AND MATERIAL SPECIFICATIONS SEE ROADWAY SHEET NO. 2A & 2P.



**NOTE:** THESE DETAILS ARE TYPICAL FOR ALL STRUCTURAL ELEMENTS REQUIRING DECORATIVE FORM LINERS EXCEPT CONCRETE PARAPETS. PARAPET DIMENSIONS MAY BE REDUCED BY THE THICKNESS OF THE FORM LINER IN ORDER TO UTILIZE STANDARD PARAPET FORMS. REINFORCING BAR BENDING DIMENSIONS SHALL BE REDUCED ACCORDINGLY.

STATE OF TENNESSEE  
 DEPARTMENT OF TRANSPORTATION  
 BUREAU OF HIGHWAYS

GENERAL NOTES  
 AND ESTIMATED QUANTITIES  
 BRIGHTWOOD AVENUE  
 OVER INTERSTATE 440  
 STA. 266+18.76  
 DAVIDSON COUNTY

1982

CORRECT *William L. Lovelace*  
 ENGINEER OF STRUCTURES

APPROVED *Lewis Evans*  
 DIRECTOR OF HIGHWAYS

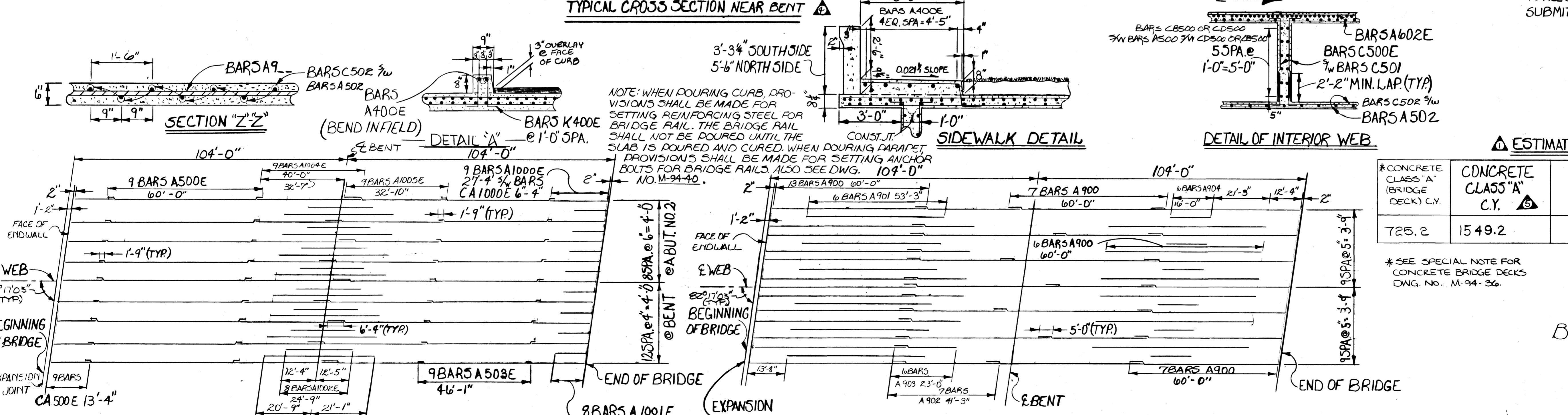
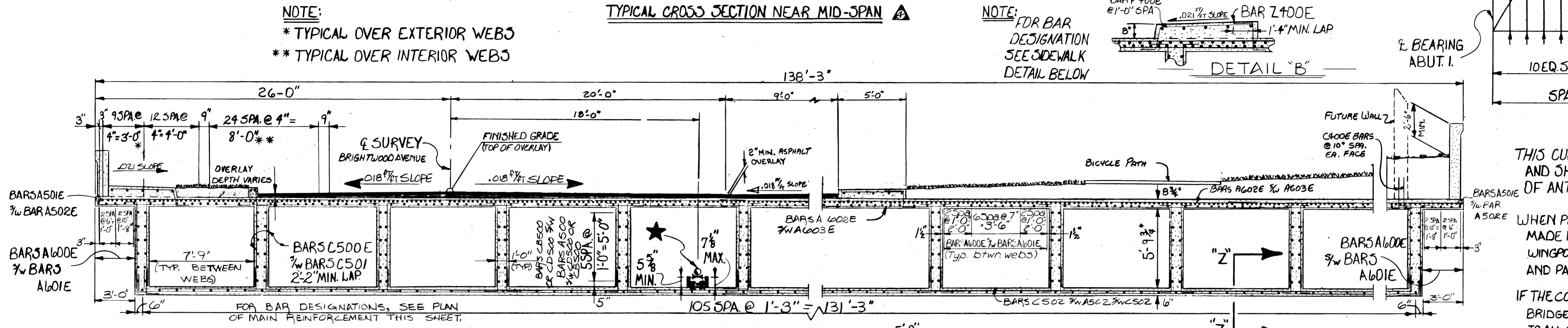
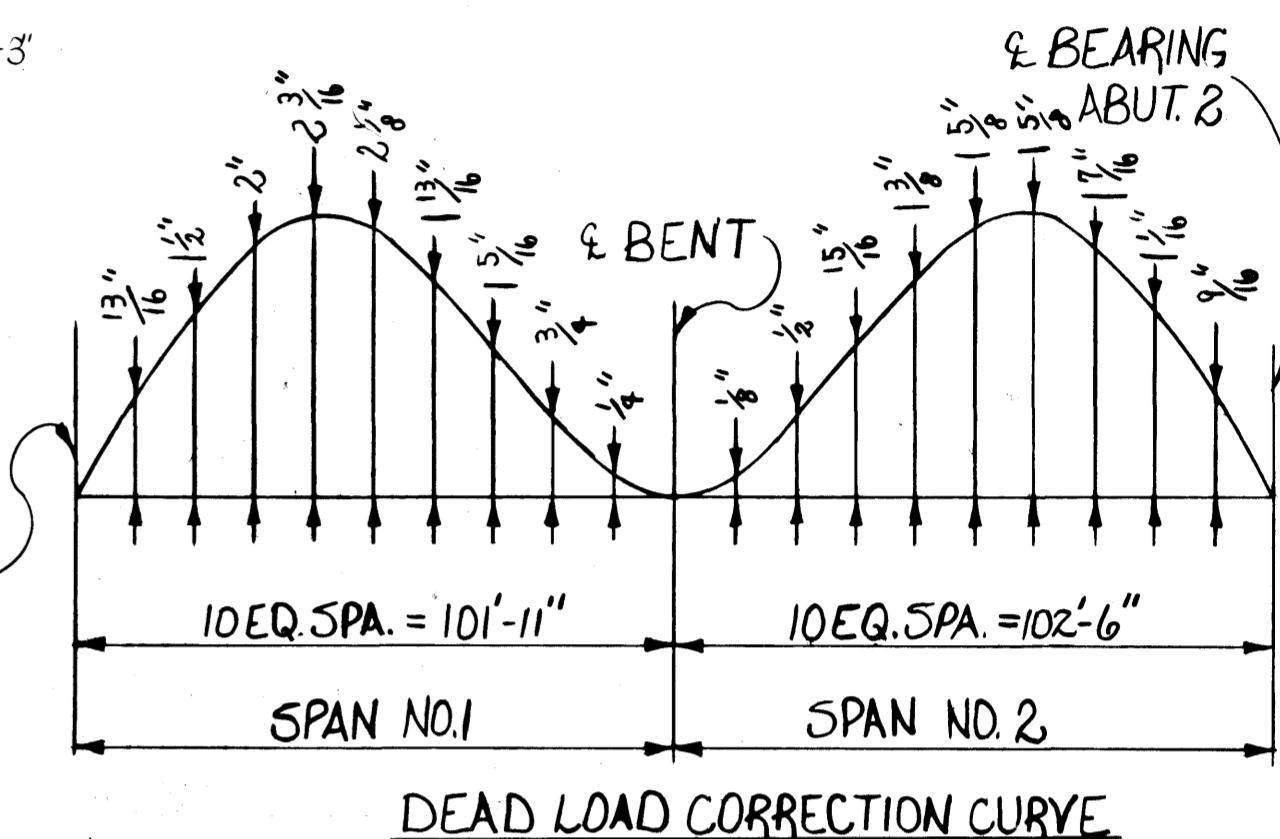
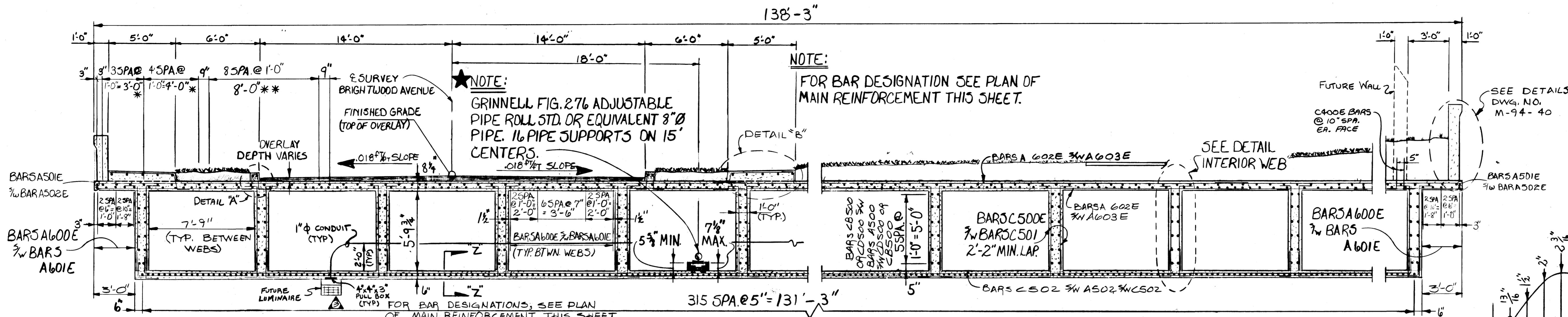
M-94-36

MICROFILMED



PROJECT NO.	YEAR	SHEET NO.
1-440-1(49)206	1982	

REVISIONS				
NO.	DATE	BY	BRIEF DESCRIPTION	
1	5-24-82	MAH	REDUCED QUANTITIES	
2	10-7-82	CAJK	GENERAL REVISIONS	
3	10-17-82	MAH	ADDED LIGHTING DETAILS	
4	2-2-84	MH	REVISED LOCATION OF SINKS & CURBS	
5	3-8-91	MH	CORRECTED SUPERSTRUCTURE CONCRETE QUANTITY	



**ESTIMATED QUANTITIES**

* CONCRETE CLASS "A" (BRIDGE DECK) C.Y.	CONCRETE CLASS "A" C.Y.	REINFORCING STEEL LBS.	EPOXY COATED REINFORCING STEEL LBS.
725.2	1549.2	280,953	477,666

\* SEE SPECIAL NOTE FOR CONCRETE BRIDGE DECKS DWG. NO. M-94-36.

STATE OF TENNESSEE  
DEPARTMENT OF TRANSPORTATION  
BUREAU OF HIGHWAYS

Superstructure  
Brightwood Avenue over  
Interstate 440  
Station 266+18.76  
Davidson County

1982  
CORRECT *Colton J. Foveal*  
ENGINEER OF STRUCTURES  
APPROVED *Louis Covens*  
DIRECTOR OF HIGHWAYS

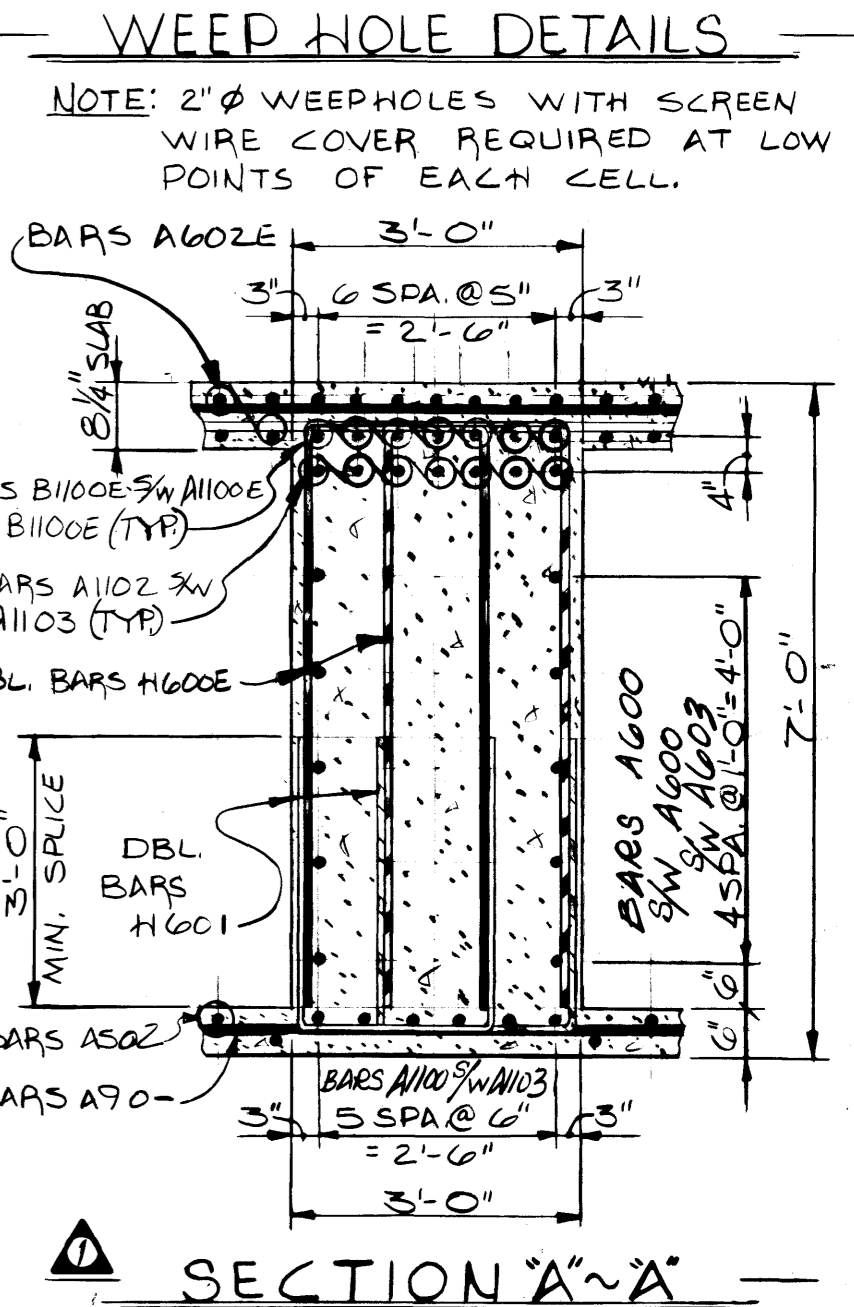
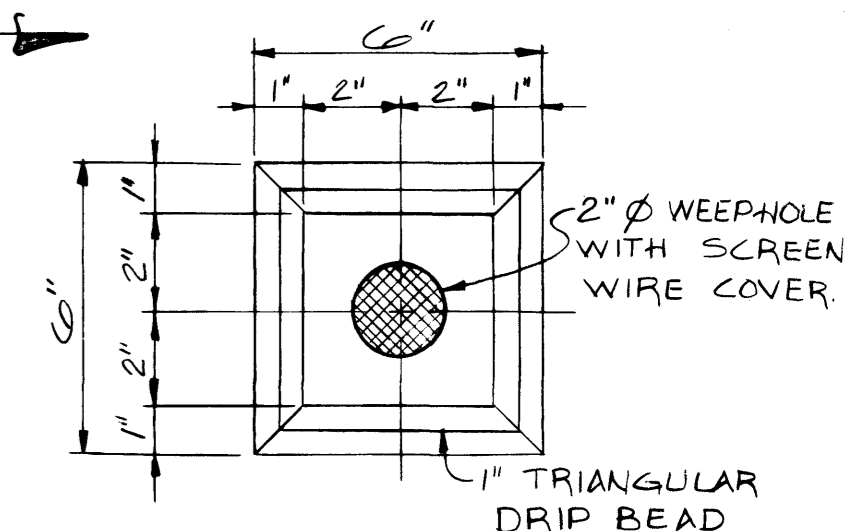
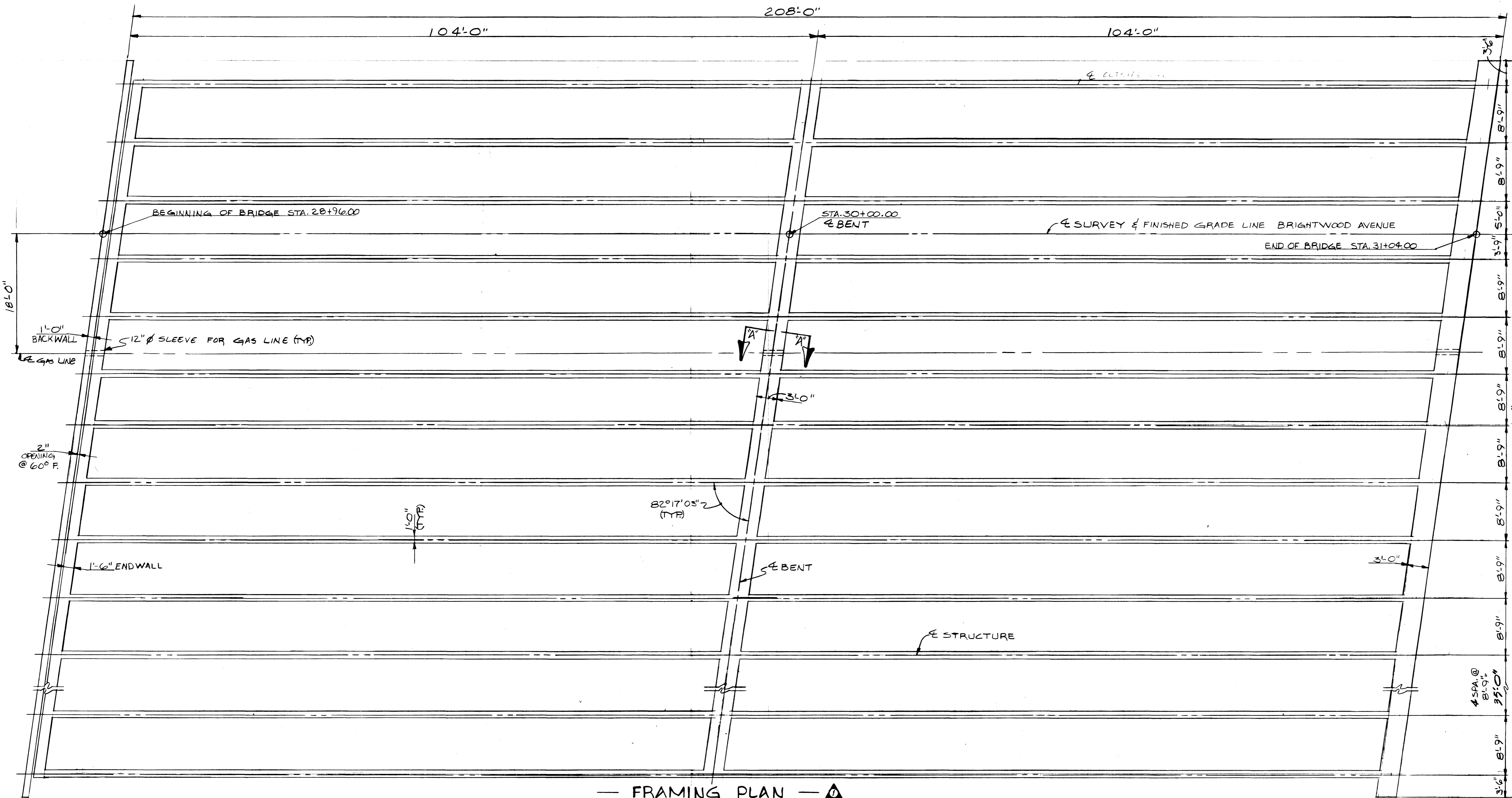
M-94-38

DESIGNED BY: MARK HOLLORAN DATE: 2-82  
DRAWN BY: MIKE FAGAN DATE: 3-82  
SUPERVISED BY: HOLLORAN & HARRISON DATE: 3-82  
CHECKED BY: DATE:

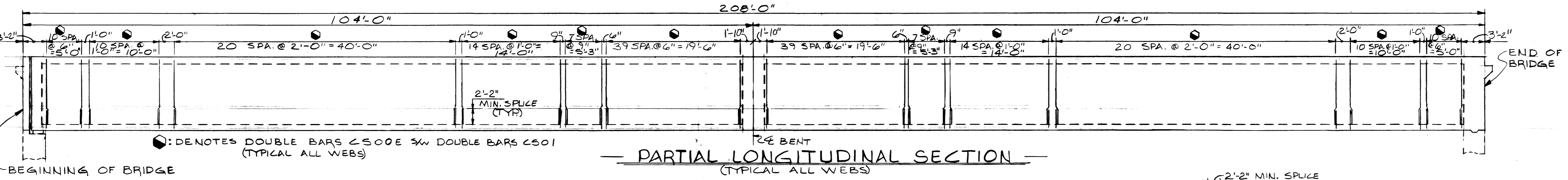
MICROFILMED

PROJECT NO.	YEAR	SHEET NO.
I-440-(49)206	1982	

REVISIONS			
NO.	DATE	BY	BRIEF DESCRIPTION
1	10-7-82	CMK	GENERAL



DIMENSIONS ARE TO FACE WEBS.



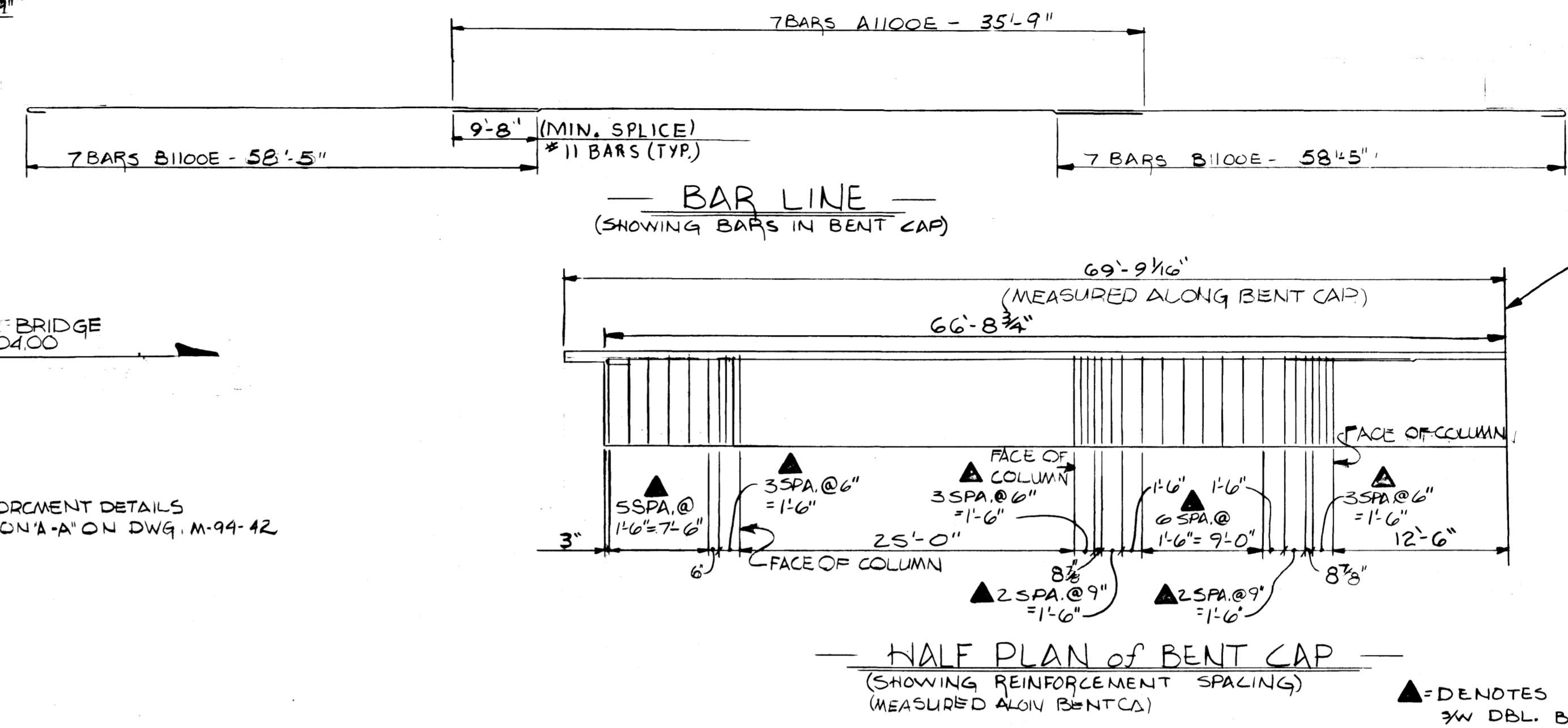
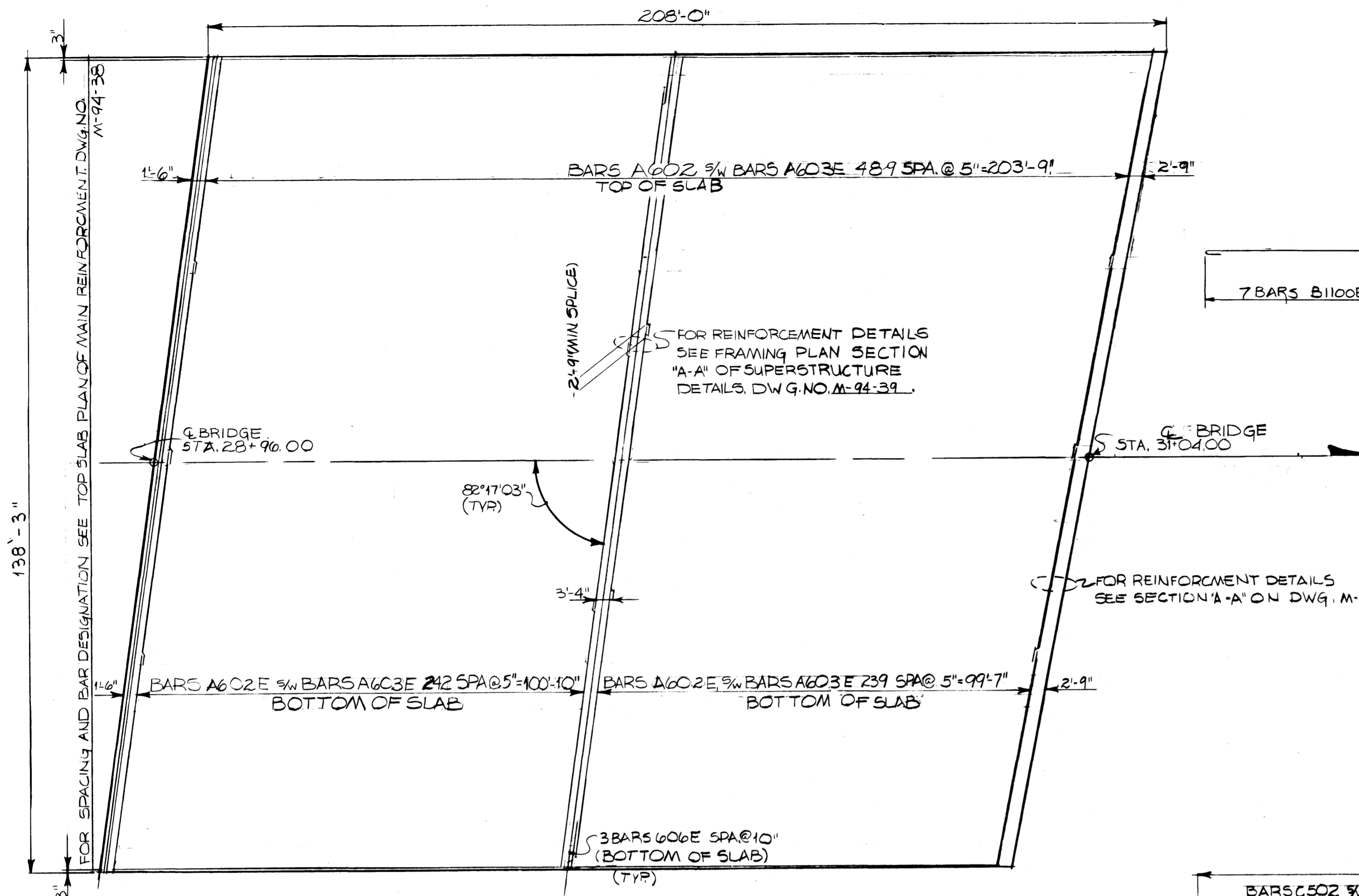
DESIGNED BY MARK HOLLORAN DATE 11-81  
 DRAWN BY GRANT L. LLOYD DATE 3-82  
 SUPERVISED BY Roger L. Harrison DATE 3-82  
 CHECKED BY MARK HOLLORAN DATE 4-82

STATE OF TENNESSEE  
 DEPARTMENT OF TRANSPORTATION  
 BUREAU OF HIGHWAYS  
 SUPERSTRUCTURE DETAILS  
 BRIGHTWOOD AVENUE OVER  
 INTERSTATE 440  
 STATION: 266+18.76  
 DAVIDSON COUNTY  
 1982

CORRECT *Colleen L. Lowery*  
 ENGINEER OF STRUCTURES  
 APPROVED *James L. Evans*  
 DIRECTOR OF HIGHWAYS

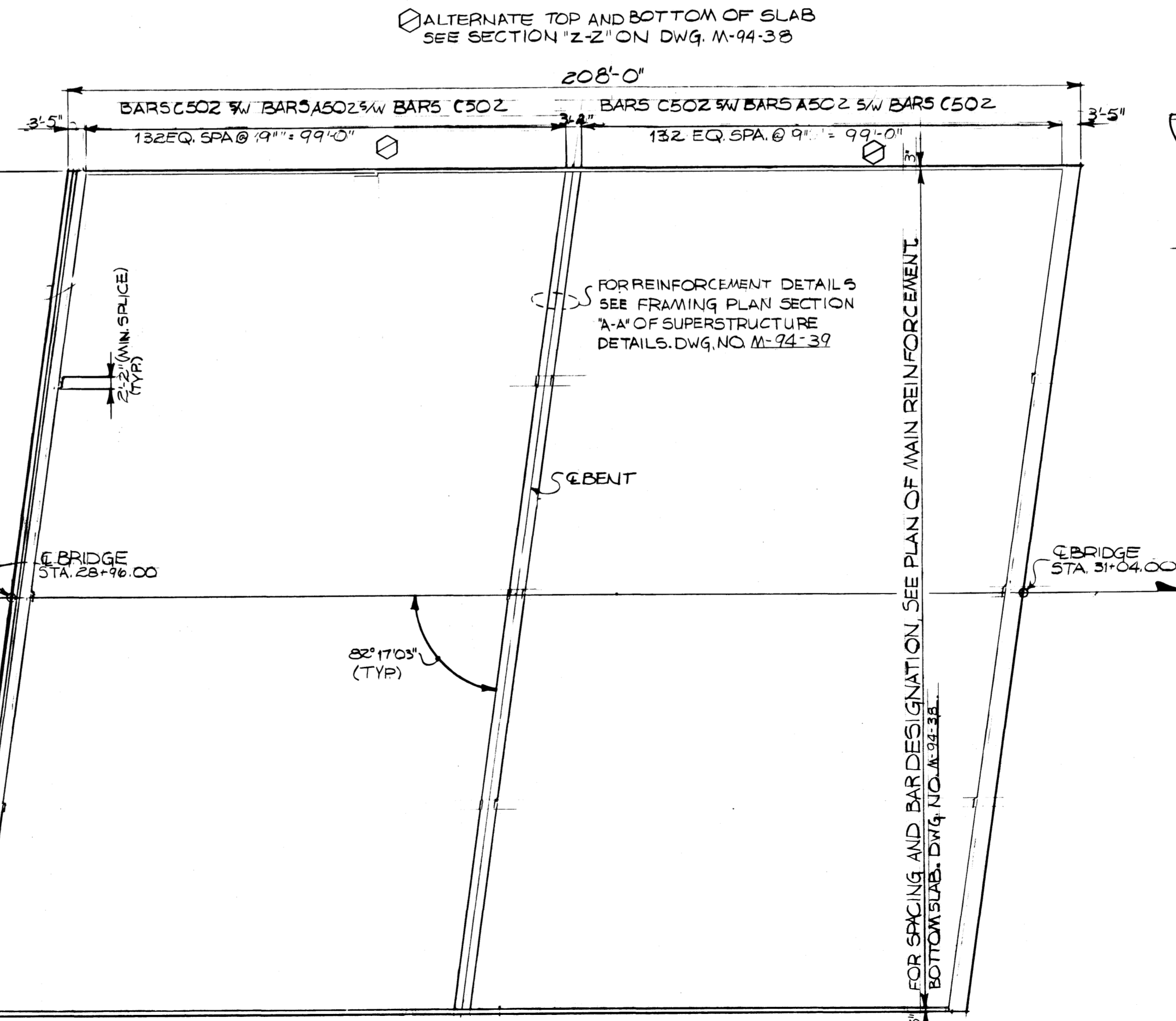
PROJECT NO.	YEAR	SHEET NO.
I-440-4(4) 206	1982	

REVISIONS			
NO.	DATE	BY	BRIEF DESCRIPTION
1	7-22-82	RLH	FENCE RAIL
2	10-7-82	CWK	GENERAL REVISIONS
3	10-28-84	MAH	ADDED DECORATIVE FENCE DETAILS AND NOTES



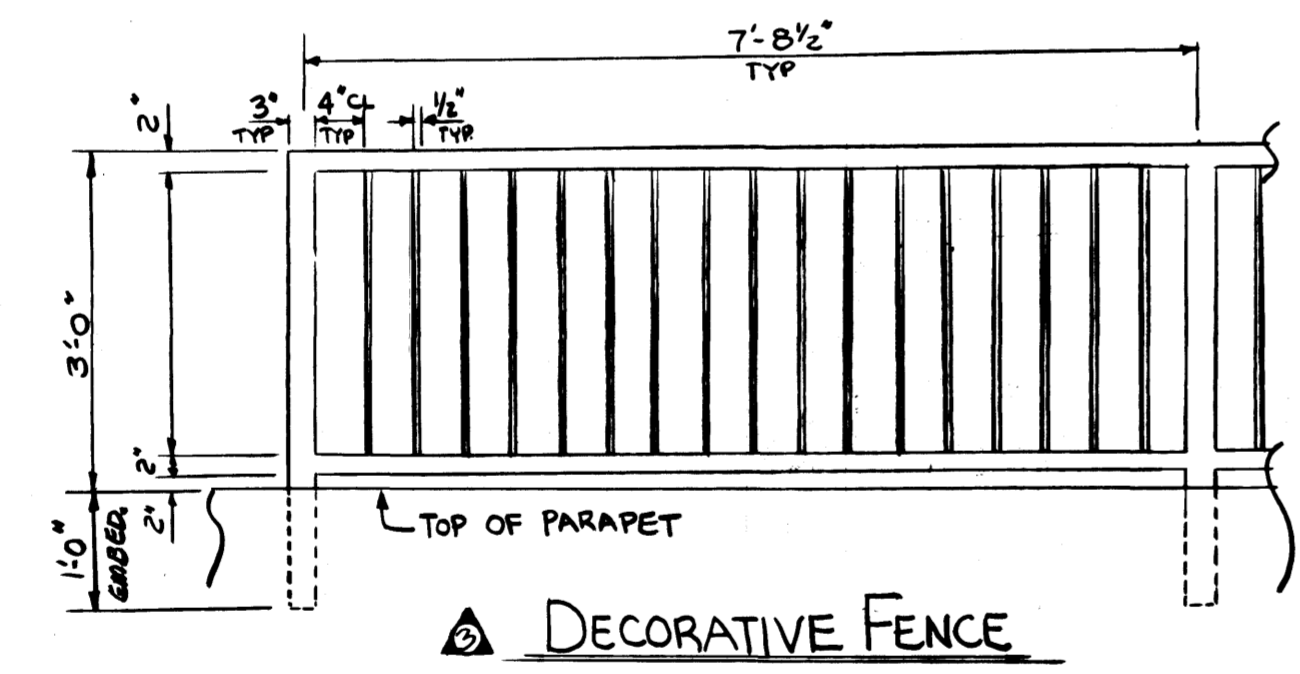
NOTE: REINFORCEMENT IS SYMMETRICAL ABOUT  $\bar{C}$  STRUCTURE

SLAB PLAN - TOP SLAB

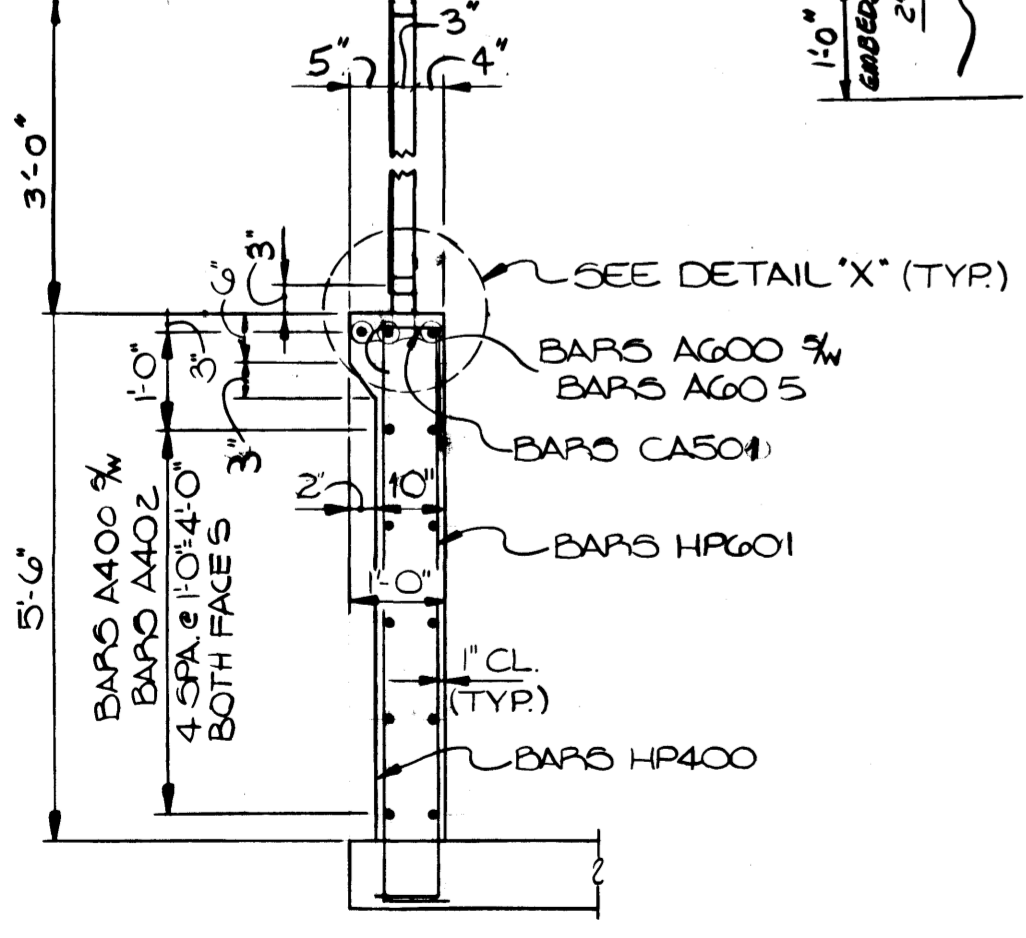


SLAB PLAN - BOTTOM SLAB

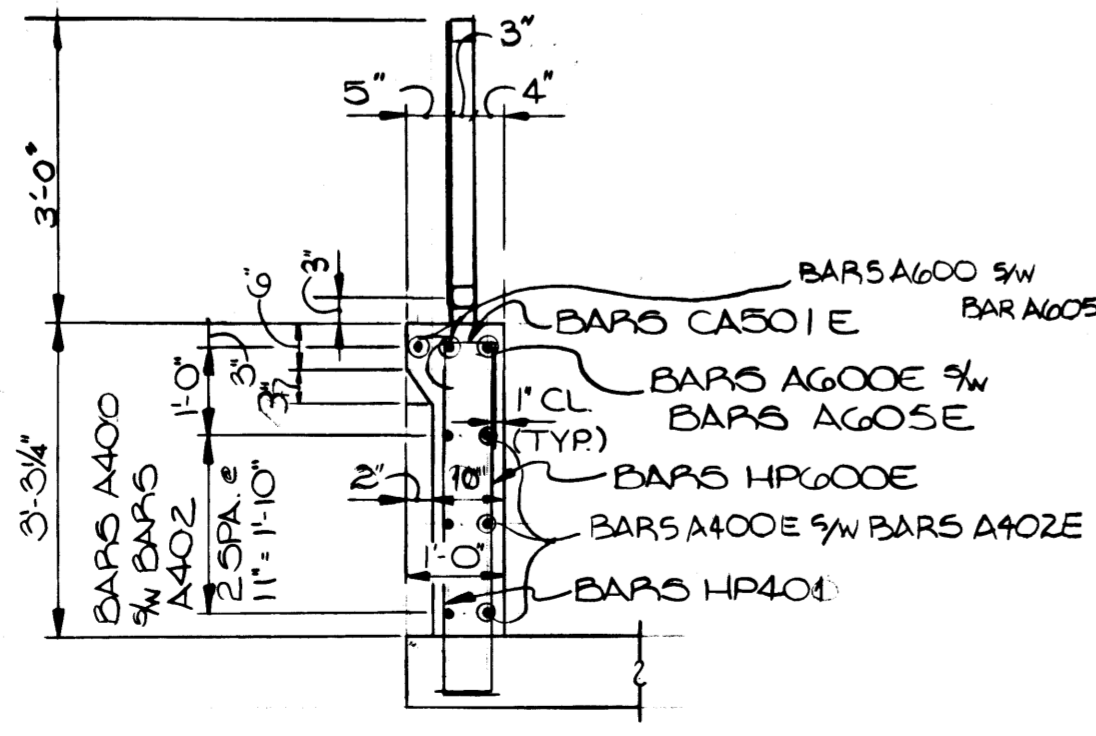
- NOTES FOR DECORATIVE FENCE:**
- FENCE TO BE CAST IRON PAINTED BLACK. ACCEPTABLE BRANDS ARE "HEAVY REGAL" STYLE NO. 110 BY BUILDERS FENCE CO. OR EQUIVALENT. ALL CONNECTIONS TO BE WELDED.
  - FENCE POSTS TO BE SET IN SLEEVES IN TOP OF PARAPET USING NON-SHRINK GROUT.
  - SEE SPECIAL NOTE FOR ERECTION TND SHEET.



DECORATIVE FENCE

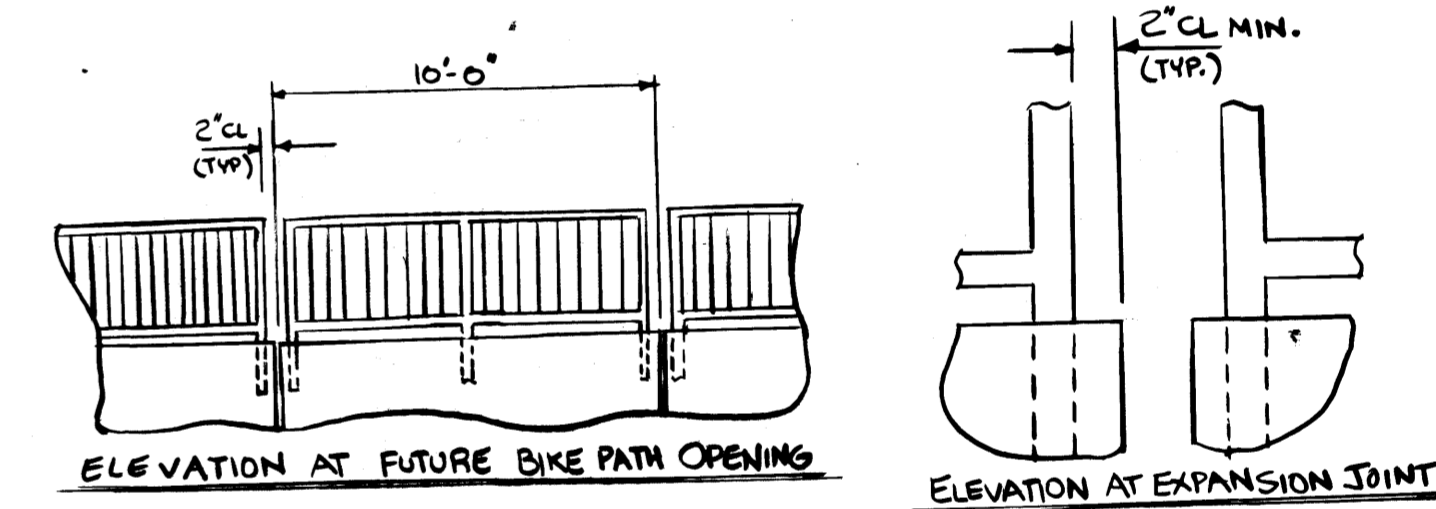


PARAPET SECTION @ NORTH SIDE OF BRIDGE



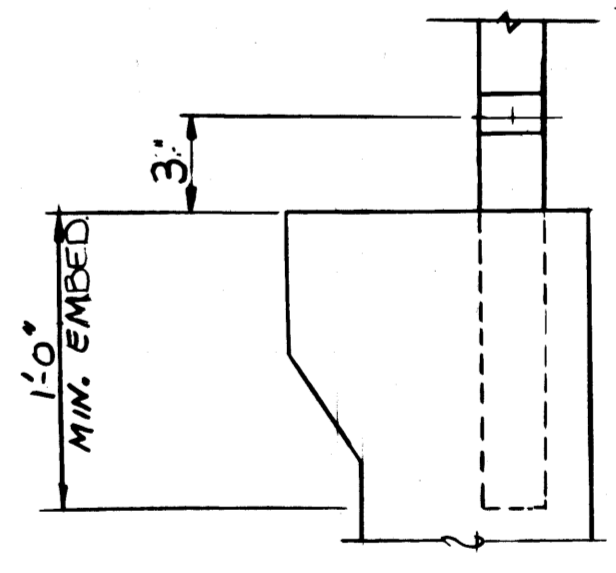
PARAPET SECTION @ SOUTH SIDE OF BRIDGE

NOTE: ESTIMATED QUANTITIES FOR SUPERSTRUCTURE INCLUDES: ALL STEEL BAR REINFORCEMENT, EPOXY COATED REINFORCING STEEL AND CLASS 'A' CONCRETE IN THE PARAPETS.



SPECIAL NOTE FOR FENCE ERECTION:

- THE CONTRACTOR SHALL ERECT THE DECORATIVE FENCE BY EITHER OF TWO METHODS:
- THE CONTRACTOR SHALL FIELD MEASURE THE EXISTING SLEEVE SPACINGS IN THE COMPLETED RAILS AND HAVE THE FENCE FABRICATED TO THOSE LENGTHS.
  - THE CONTRACTOR SHALL HAVE THE FENCE FABRICATED TO THE POST SPACING SHOWN ON THIS SHEET. NEW SLEEVE OPENINGS SHALL BE FIELD DRILLED USING THE FENCE AS THE TEMPLATE.
- FOR EITHER METHOD, ALL COSTS FOR ERECTION SHALL BE INCLUDED IN THE COST OF THE DECORATIVE FENCE.



DETAIL X

STATE OF TENNESSEE  
DEPARTMENT OF TRANSPORTATION  
BUREAU OF HIGHWAYS  
SUPERSTRUCTURE DETAILS  
BRIGHTWOOD AVENUE OVER  
INTERSTATE 440  
STATION 266+18.76  
DAVIDSON COUNTY

1982

CORRECT *Colleen J. Foreall*  
ENGINEER OF STRUCTURES  
APPROVED *Louis E. Brant*  
DIRECTOR OF HIGHWAYS

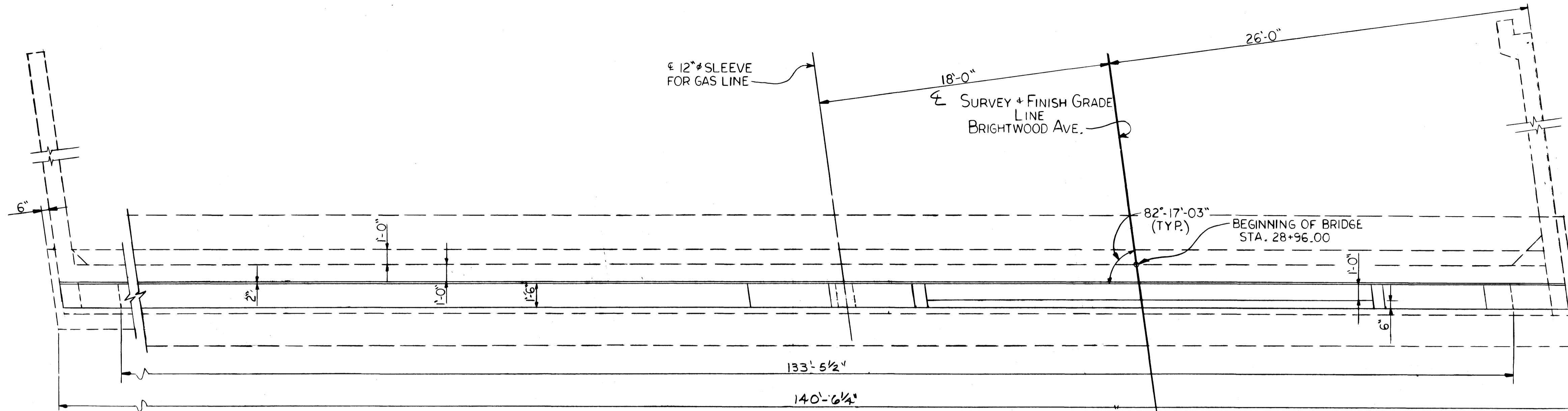
MICROFILMED

Const. No. 19014-3110-44

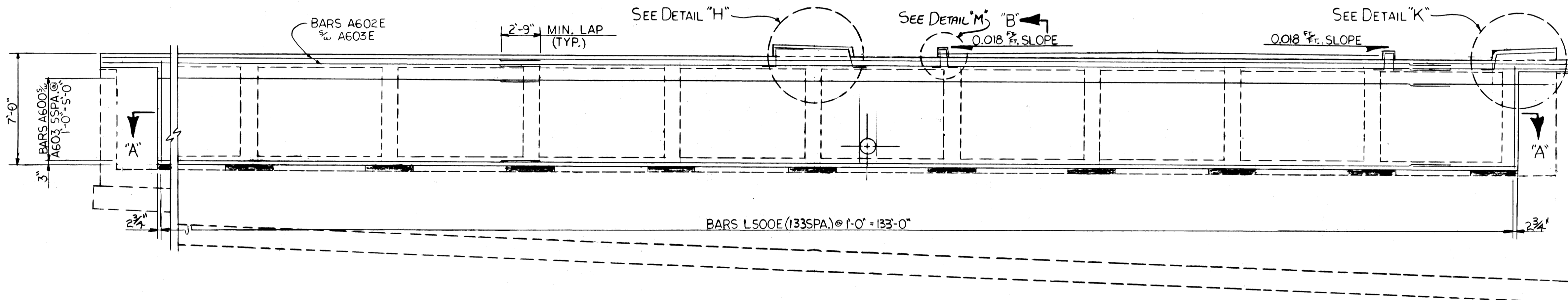
PROJECT NO.	YEAR	SHEET NO.
1440-44(1)206	1982	

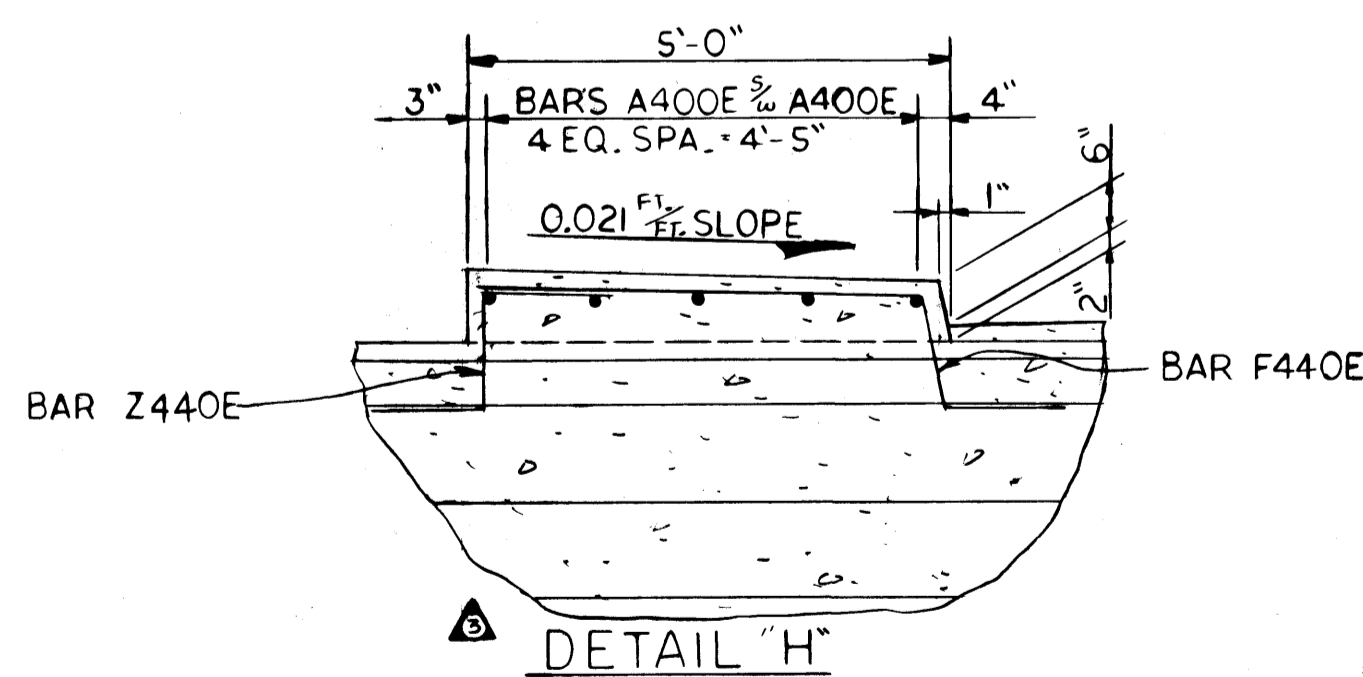
REVISIONS				
NO.	DATE	BY	BRIEF DESCRIPTION	
1	10-7-82	CJK	GENERAL REVISIONS	
2	9-19-82	MEP	GENERAL REVISIONS	
3	10-11-82	LAF	GENERAL REVISIONS	
4	2-2-84	MH	REVISED LOCATION OF CURB AND ADDED DETAIL 'M'	



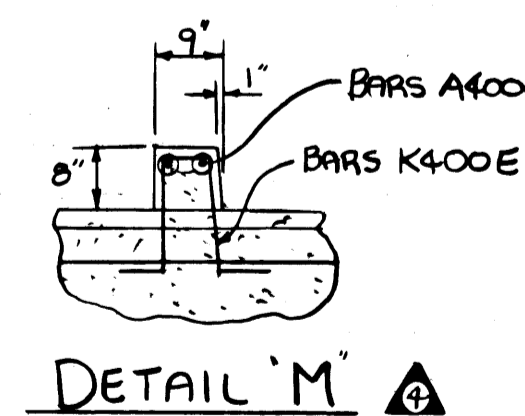
PLAN



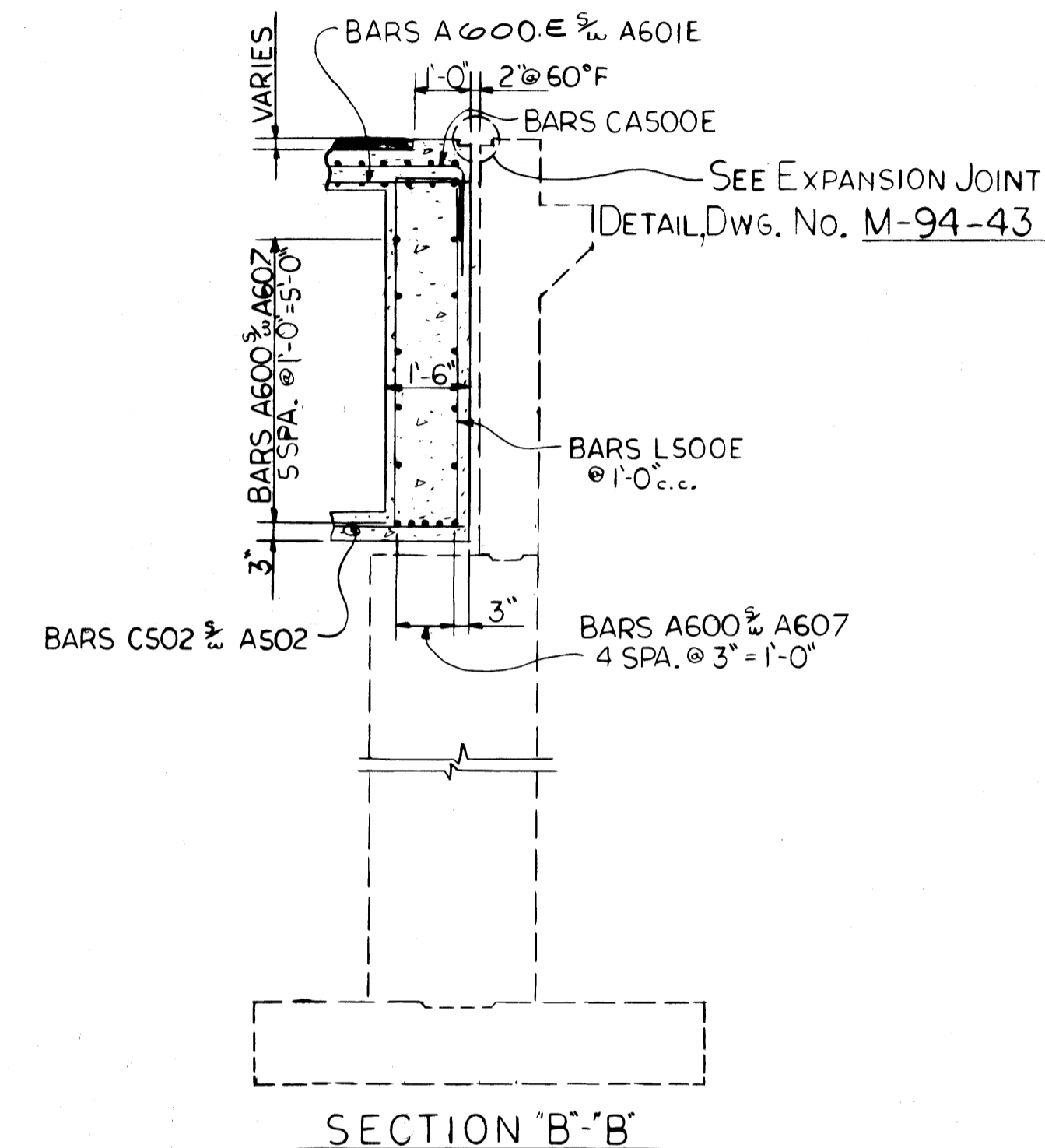
ELEVATION  
(LOOKING BACK ON SURVEY)



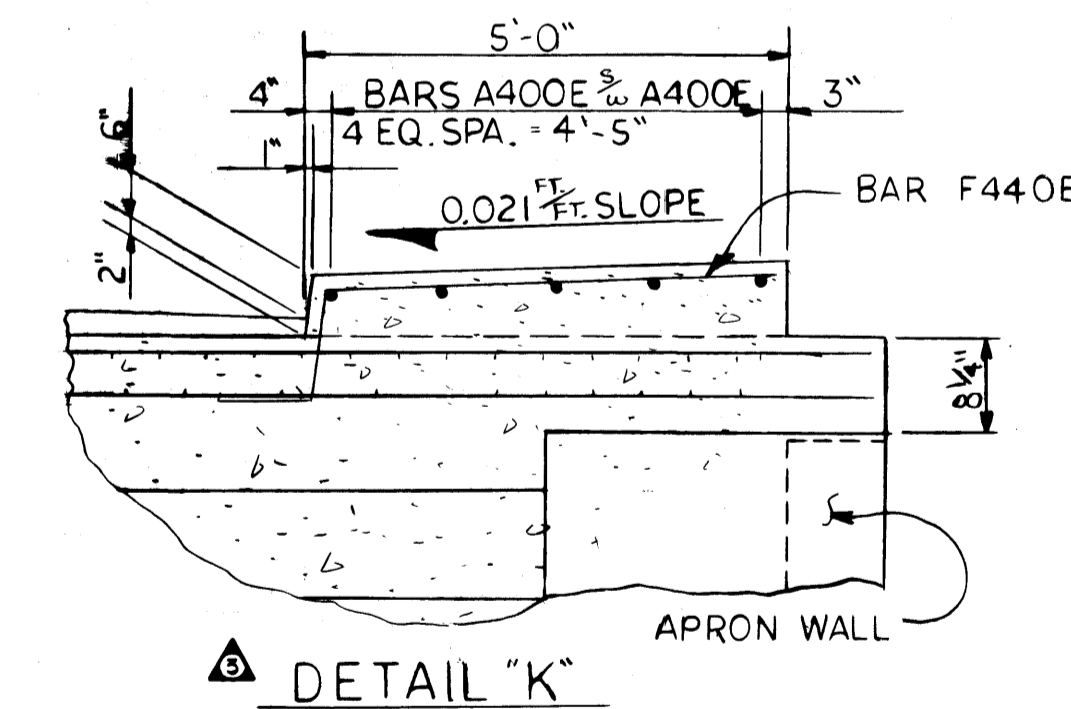
DETAIL "H"



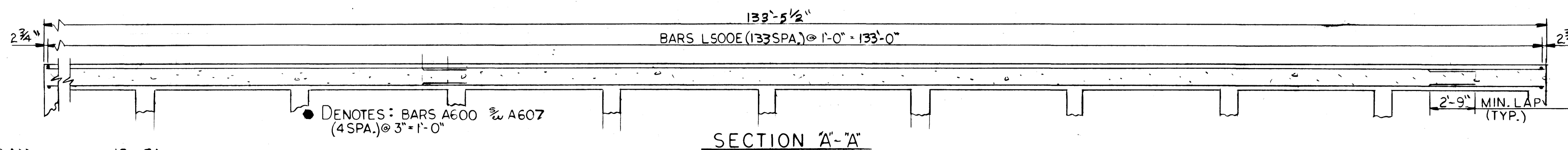
DETAIL "M"



SECTION "B-B"



DETAIL "K"



SECTION "A-A"

DESIGNED BY M. HOLLORAN DATE 12-81  
 DRAWN BY FROST DATE 3-82  
 SUPERVISED BY HARRISON & HOLLORAN DATE 3-82  
 CHECKED BY MARK HOLLORAN DATE 4-82

STATE OF TENNESSEE  
 DEPARTMENT OF TRANSPORTATION  
 BUREAU OF HIGHWAYS  
 SUPERSTRUCTURE DETAILS  
 AT ABUTMENT No. 1  
 BRIGHTWOOD AVENUE OVER  
 INTERSTATE 440  
 STATION 226+18.76  
 DAVIDSON COUNTY  
 1982

CORRECT *Colleen L. Foucaud*  
 ENGINEER OF STRUCTURES  
 APPROVED *Lawrence Evans*  
 DIRECTOR OF HIGHWAYS

M-94-41

MICROFILMED

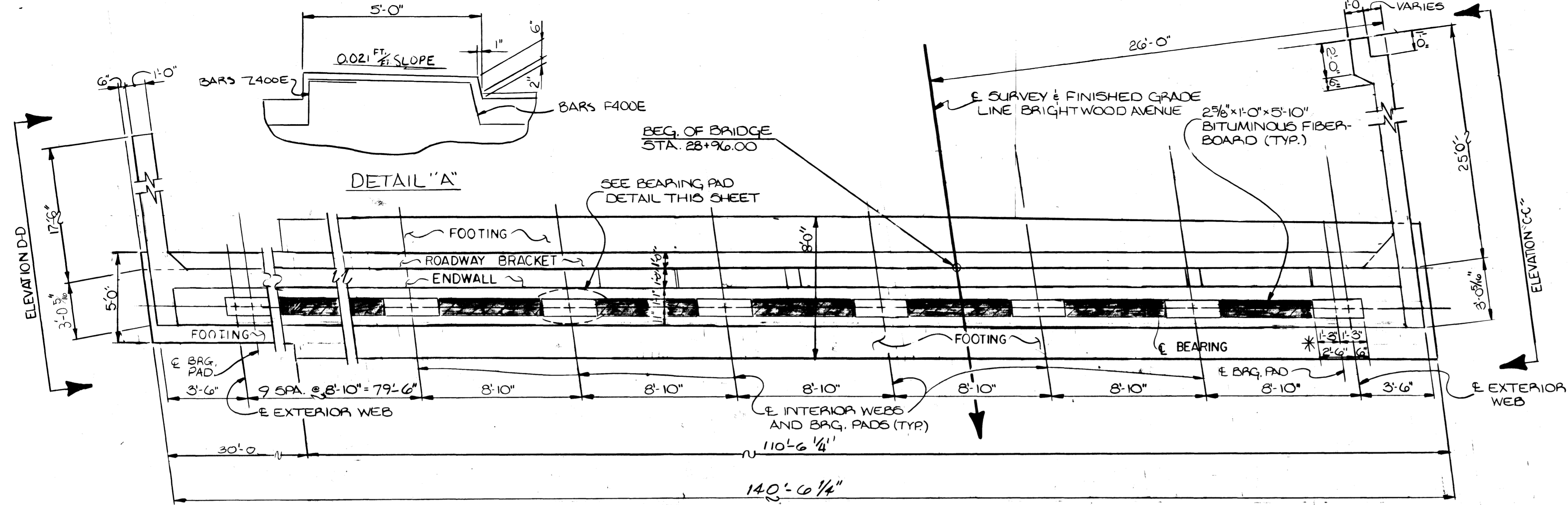




PROJECT NO.	YEAR	SHEET NO.
I-440-4(4) 206	1982	

REVISIONS

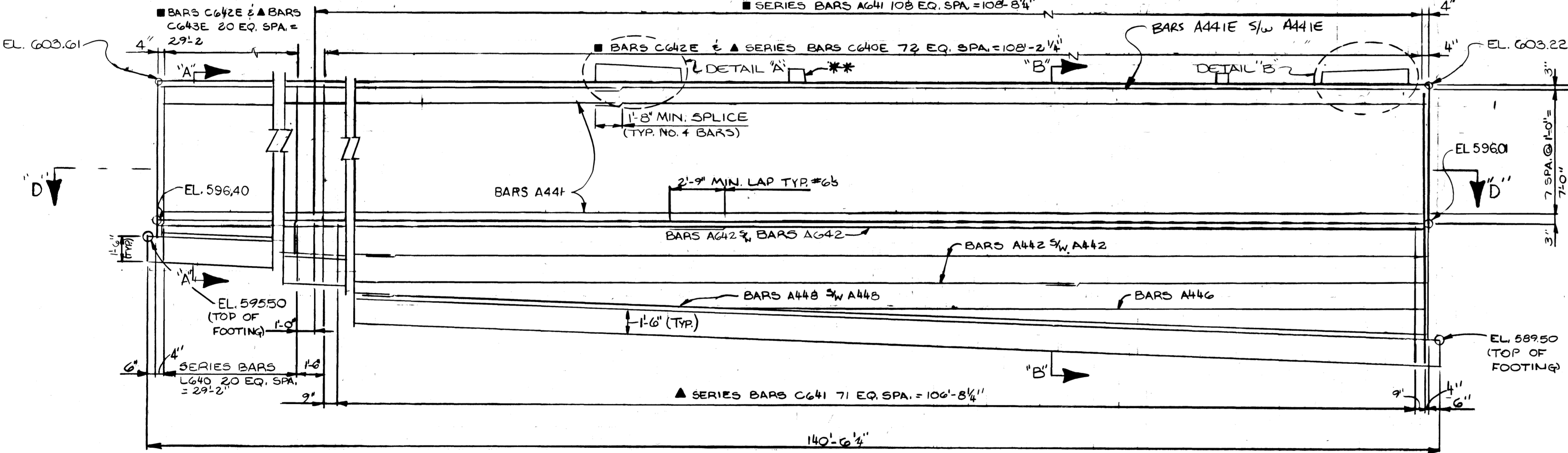
NO.	DATE	BY	BRIEF DESCRIPTION
1	5-24-82	MAH	REDUCED QUANTITIES
2	10-7-82	MAH	GENERAL
3	9-19-83	M.F.	GENERAL
4	2-2-84	M.H.	REVISED CURB LOCATION



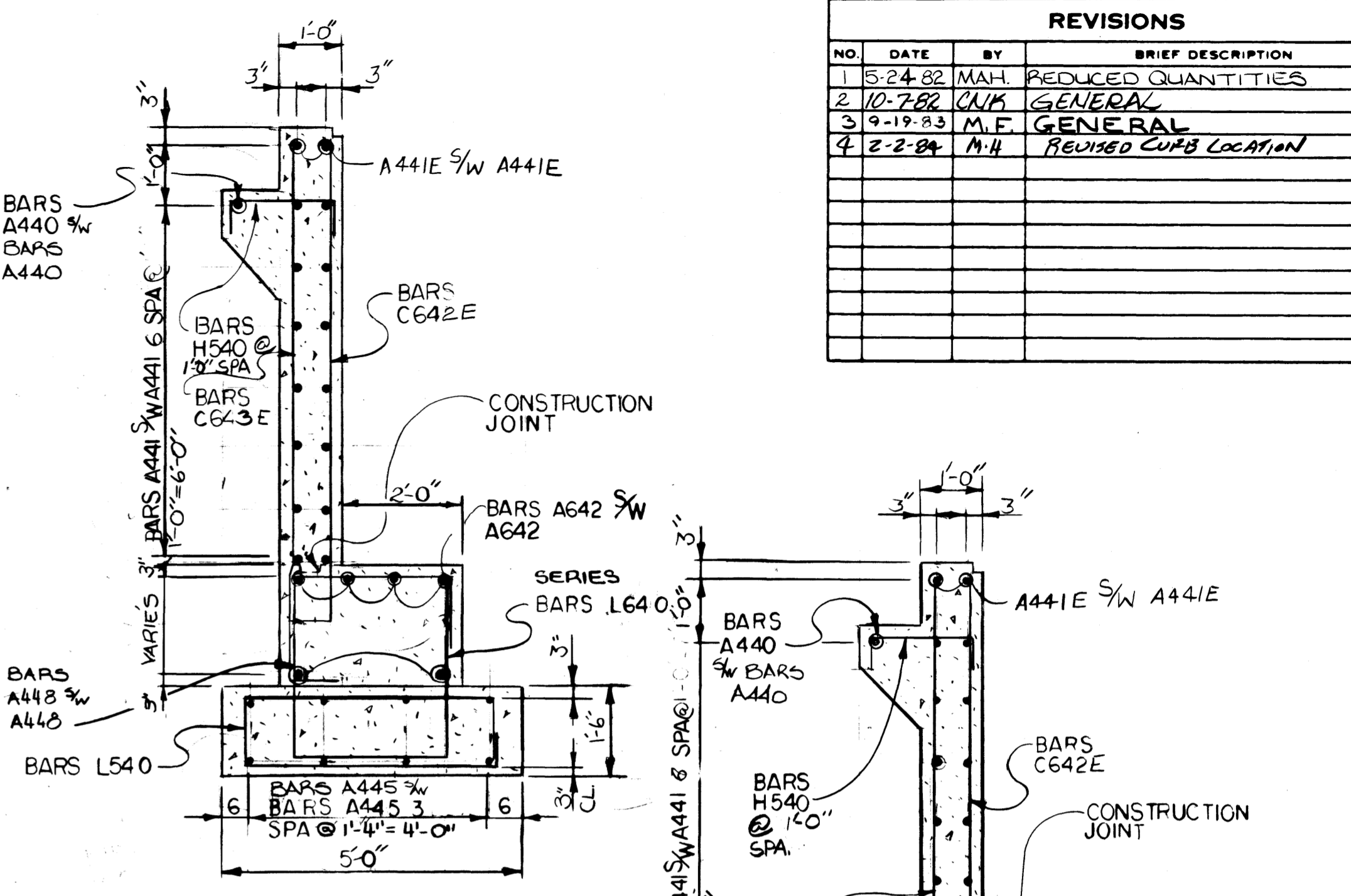
PLAN

■ : DENOTES FRONT FACE  
▲ : DENOTES BACK FACE

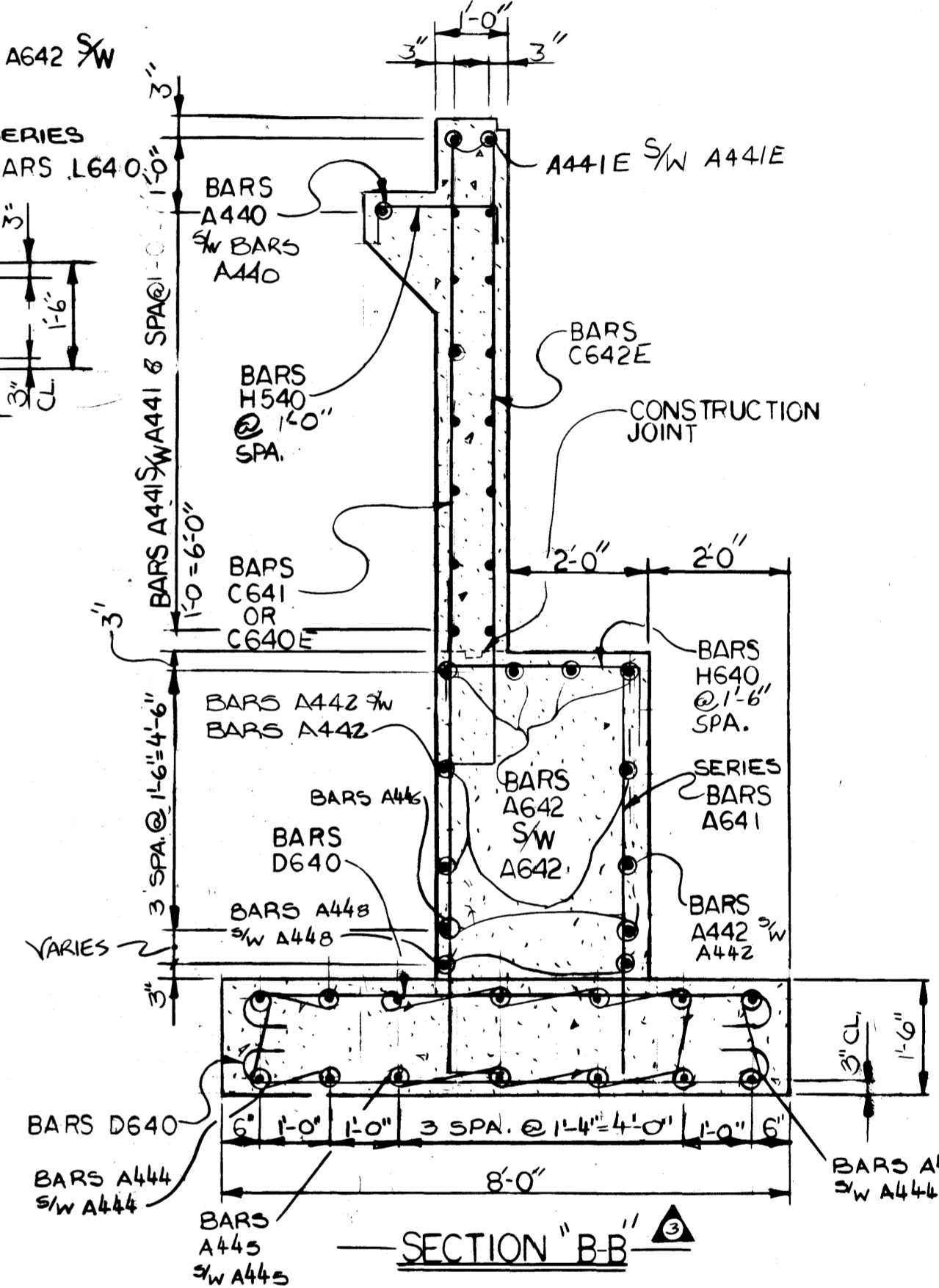
\*\* SEE DETAIL 'M' ON DWG. M-94-41



ELEVATION (LOOKING BACK ON SURVEY)



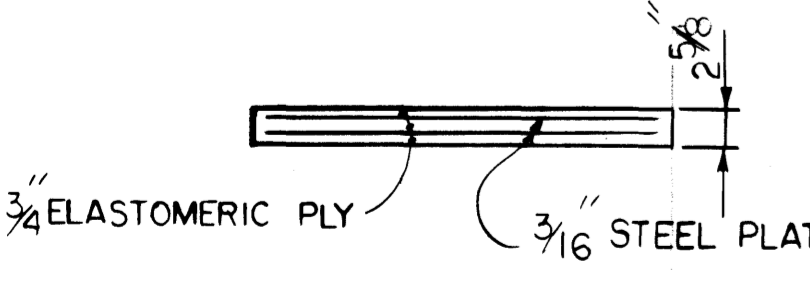
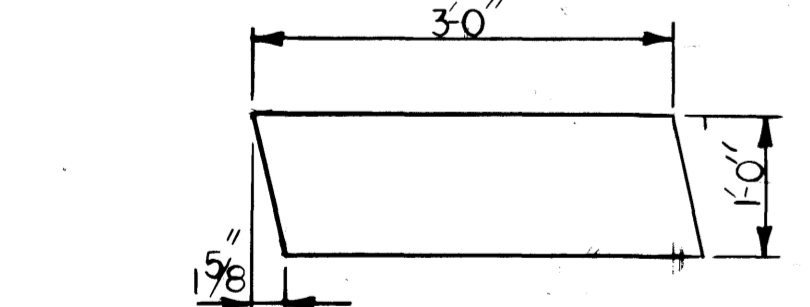
SECTION A-A



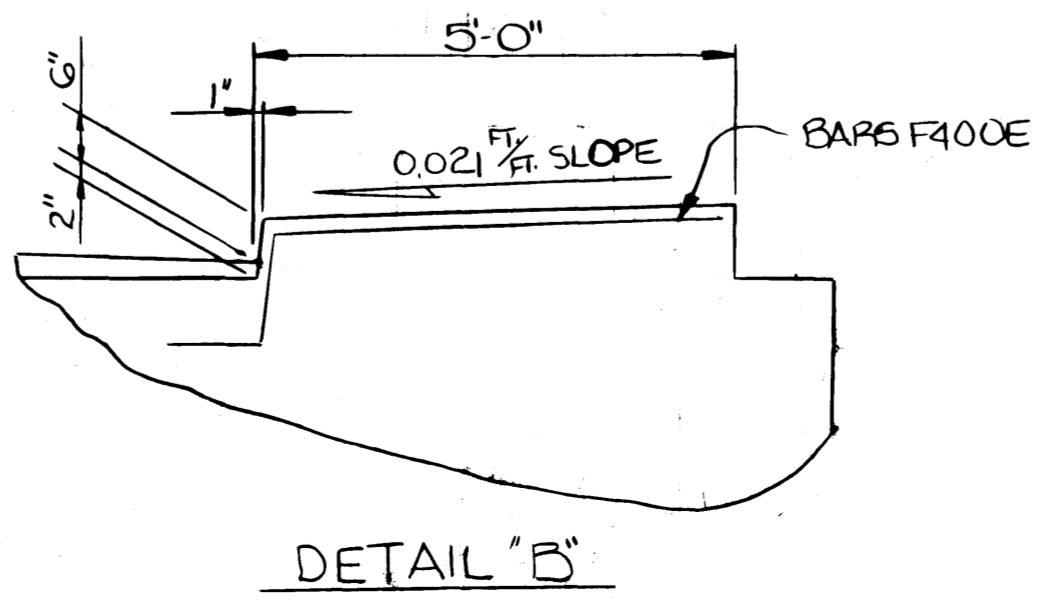
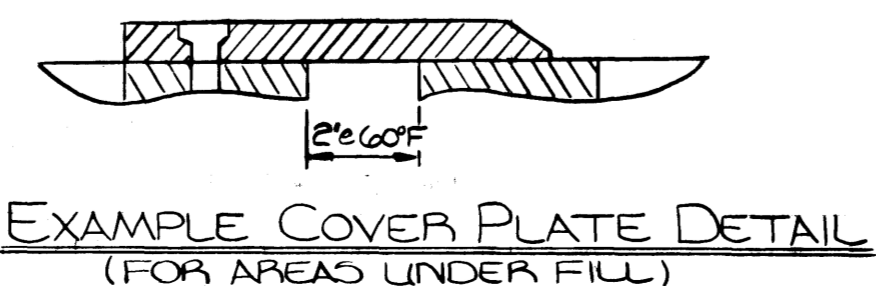
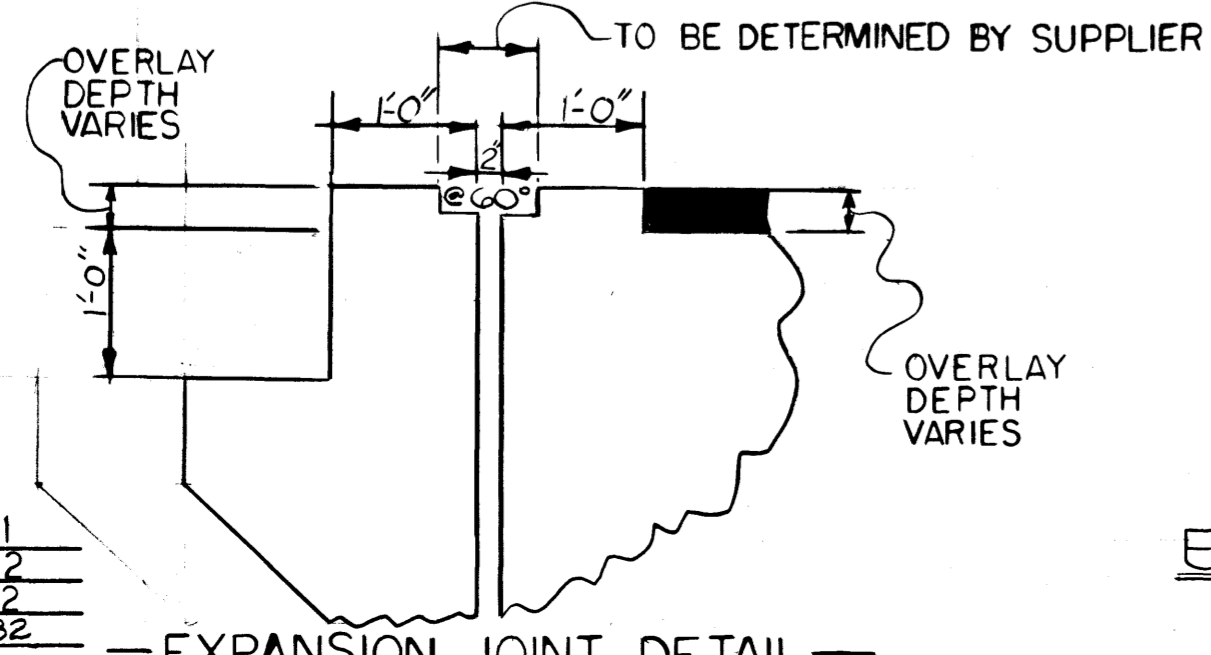
SECTION B-B

ESTIMATED QUANTITIES

ITEM	CONCRETE CLASS 'A' CY	REINFORCING STEEL LBS	EPXY COATED STEEL LBS
ABUTMENT NO. 1	176.6	14,060	1,918



BEARING PAD DETAILS



DESIGNED BY MAH DATE 12-81  
DRAWN BY KEVIN X. MARTINKO DATE 3-82  
SUPERVISED BY R.H. DATE 3-82  
CHECKED BY MARK HOLLORAN DATE 4-82

STATE OF TENNESSEE  
DEPARTMENT OF TRANSPORTATION  
BUREAU OF HIGHWAYS  
ABUTMENT NUMBER 1  
BRIGHT WOOD AVENUE  
OVER INTERSTATE-440  
STATION 266+18.76  
DAVIDSON COUNTY  
1982

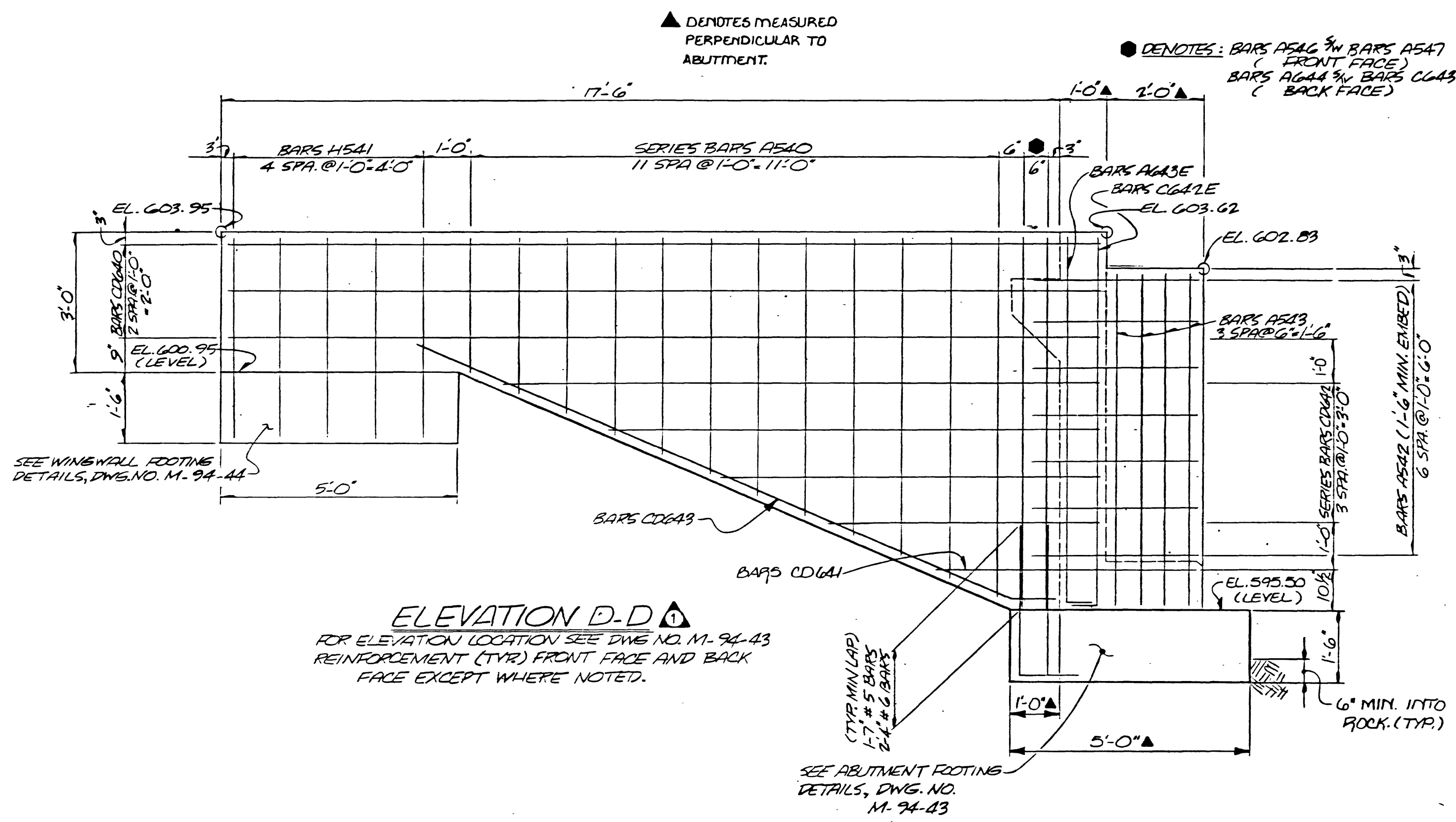
CORRECT *Colleton L. Lovell*  
ENGINEER OF STRUCTURES  
APPROVED *Louis J. ...*  
DIRECTOR OF HIGHWAYS

MICROFILMED



PROJECT NO.	YEAR	SHEET NO.
I-440-4(A)206	1982	

REVISIONS			
NO.	DATE	BY	BRIEF DESCRIPTION
1	9-19-83	MEF	REVISED WINGWALL ELEVATIONS

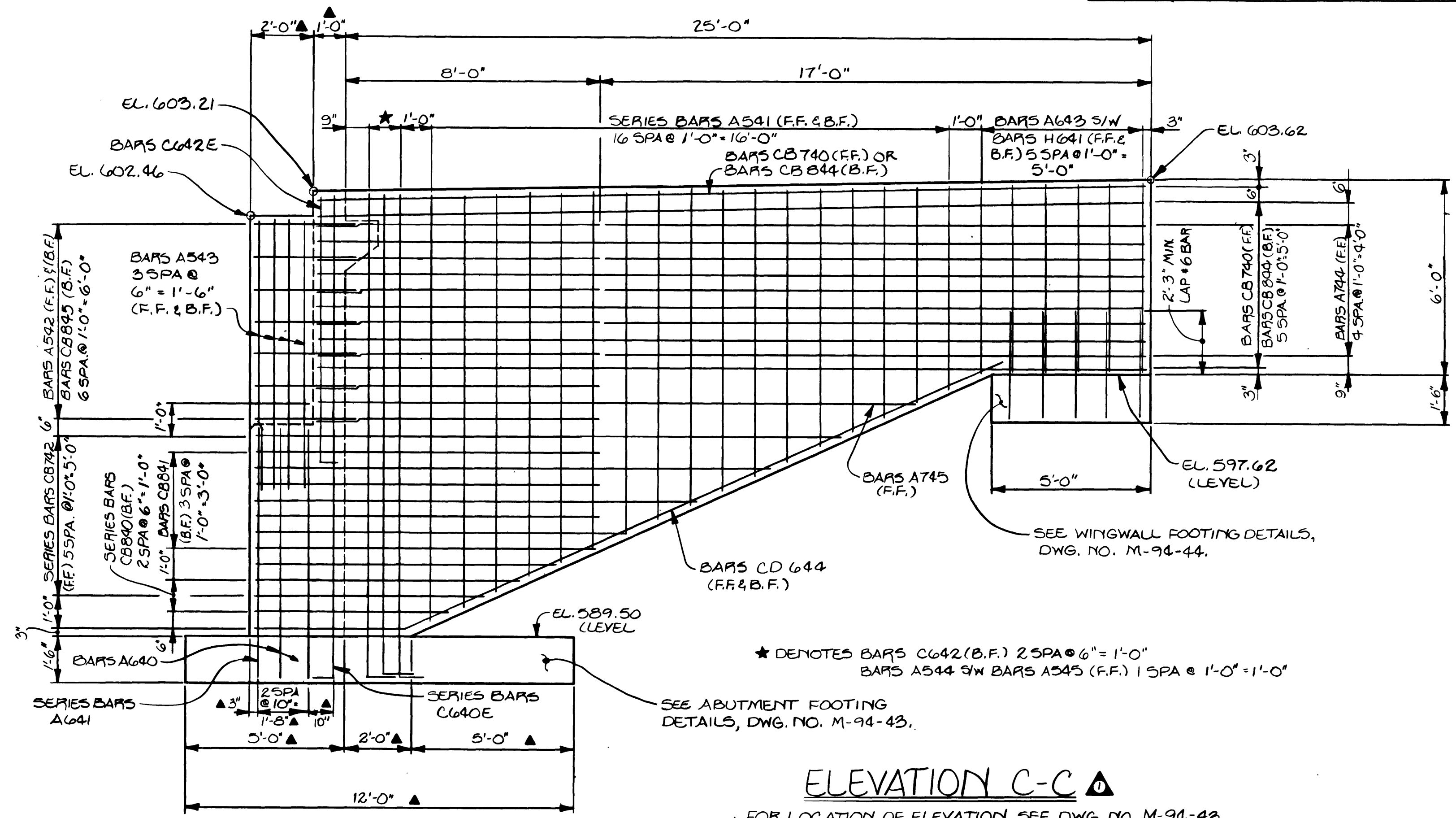


**ELEVATION D-D**  
 FOR ELEVATION LOCATION SEE DWG. NO. M-94-43  
 REINFORCEMENT (TYR) FRONT FACE AND BACK  
 FACE EXCEPT WHERE NOTED.

(TYR MIN LAP)  
 17'-0" x 5 BARS  
 2'-0" x 6 BARS  
 2'-0" x 6 BARS

SEE ABUTMENT FOOTING  
 DETAILS, DWG. NO.  
 M-94-43

NOTE: F.F. DENOTES FRONT FACE ONLY.  
 B.F. DENOTES BACK FACE ONLY.  
 FF & B.F. DENOTES BOTH FACES.



**ELEVATION C-C**  
 FOR LOCATION OF ELEVATION, SEE DWG. NO. M-94-43.

\* DENOTES BARS C642 (B.F.) 2 SPA @ 6" = 1'-0"  
 BARS A544 5/W BARS A545 (F.F.) 1 SPA @ 1'-0" = 1'-0"

SEE ABUTMENT FOOTING  
 DETAILS, DWG. NO. M-94-43.

STATE OF TENNESSEE  
 DEPARTMENT OF TRANSPORTATION  
 BUREAU OF HIGHWAYS

ABUTMENT NO. 1 DETAILS  
 BRIGHTWOOD AVENUE OVER  
 INTERSTATE 440  
 STATION 266+18.76  
 DAVIDSON COUNTY  
 1982

DESIGNED BY MARK A. HOLLORAN DATE 07-81  
 DRAWN BY MIKE CHILDRESS DATE 08-82  
 SUPERVISED BY HARBISON DATE 02-82  
 CHECKED BY MARK HOLLORAN DATE 04-82

CORRECT *Calvin L. Small*  
 ENGINEER OF STRUCTURES

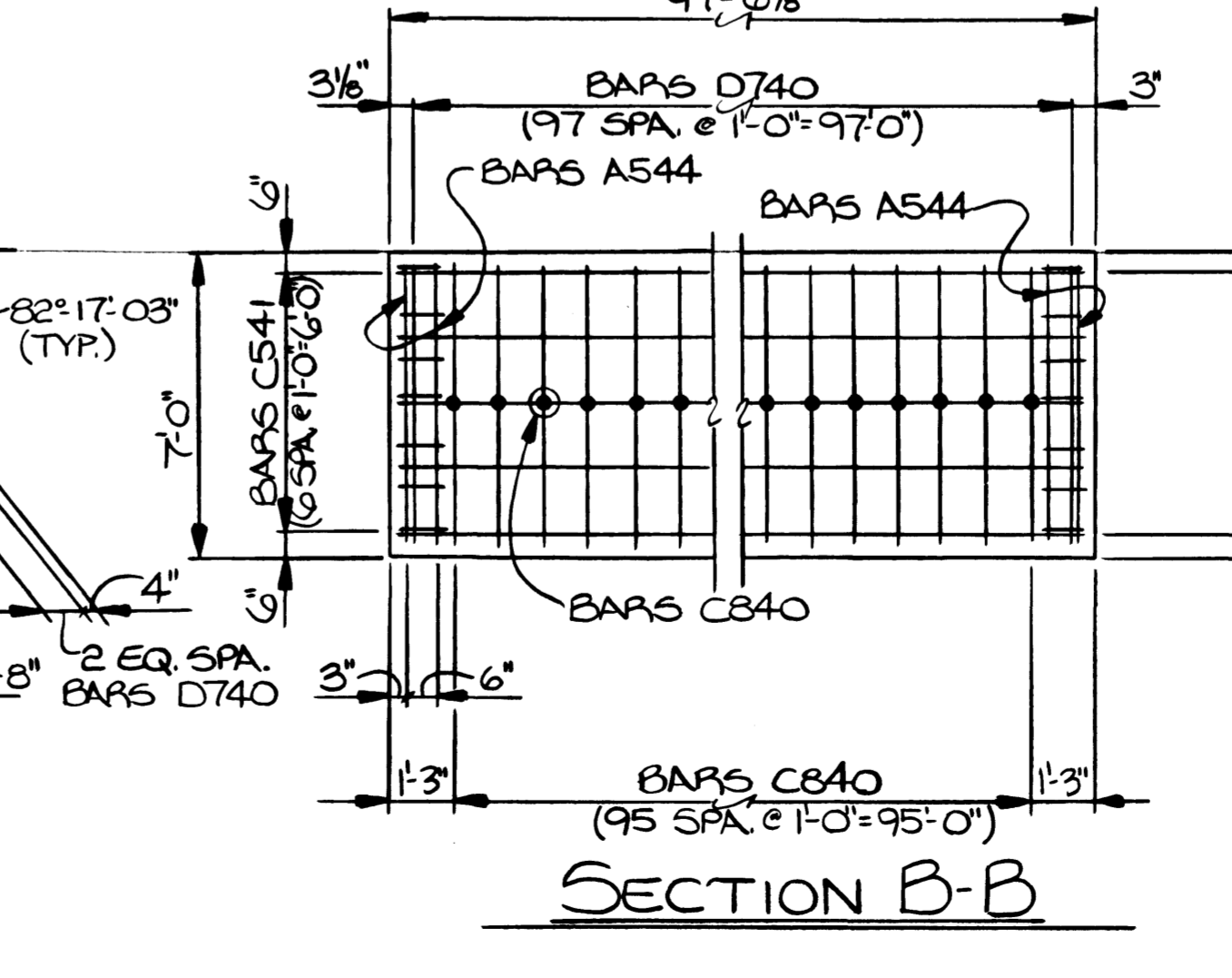
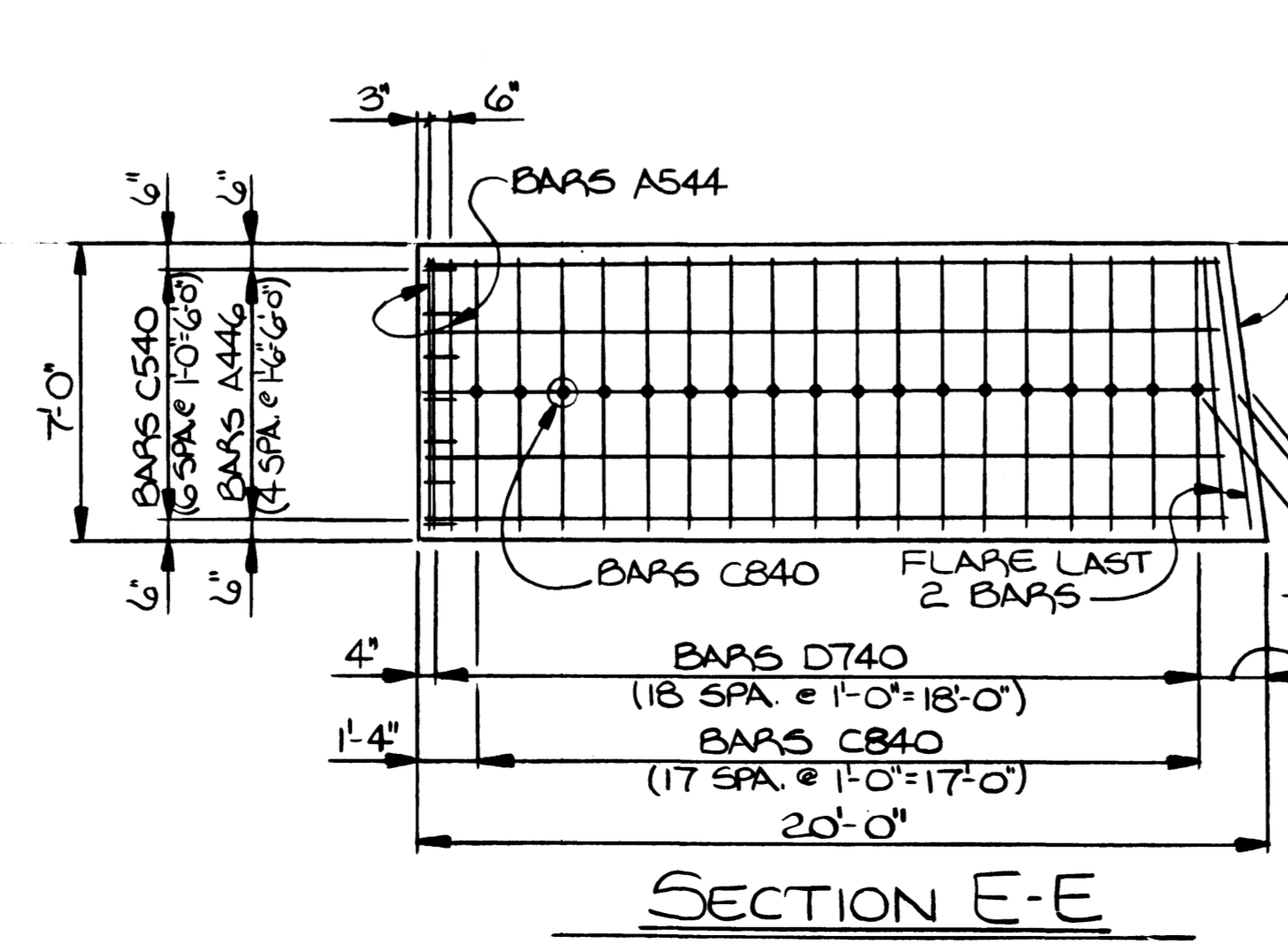
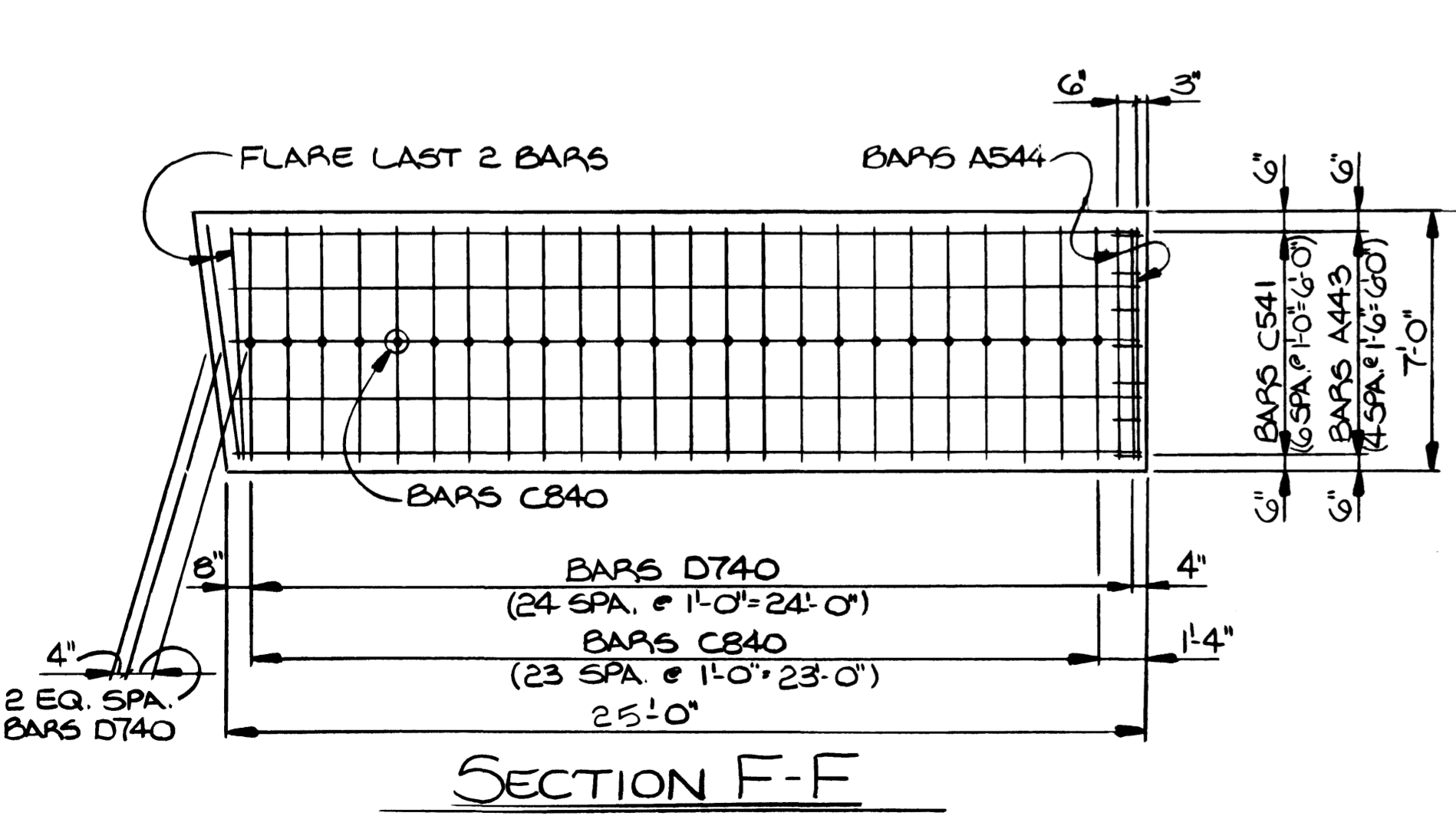
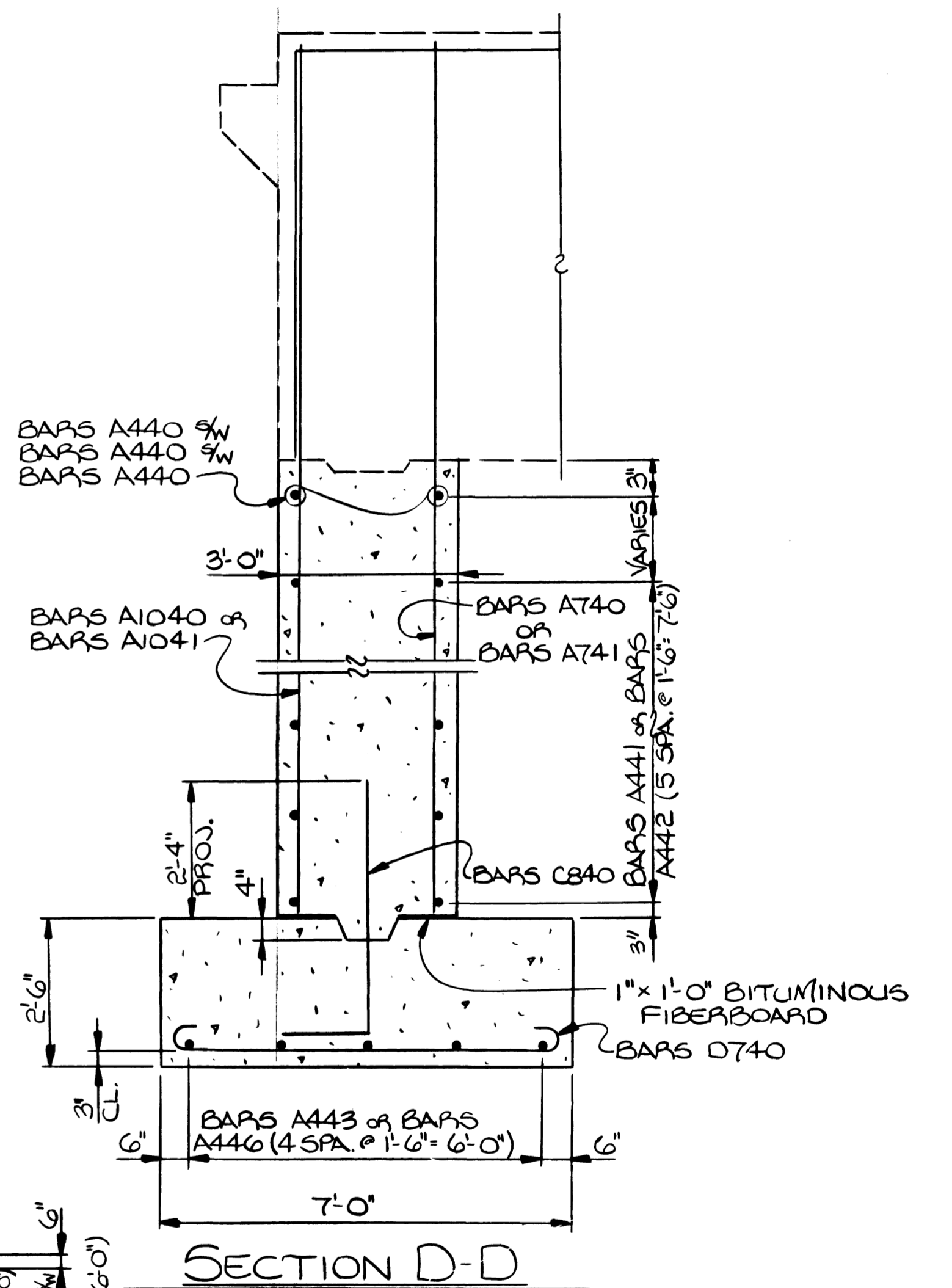
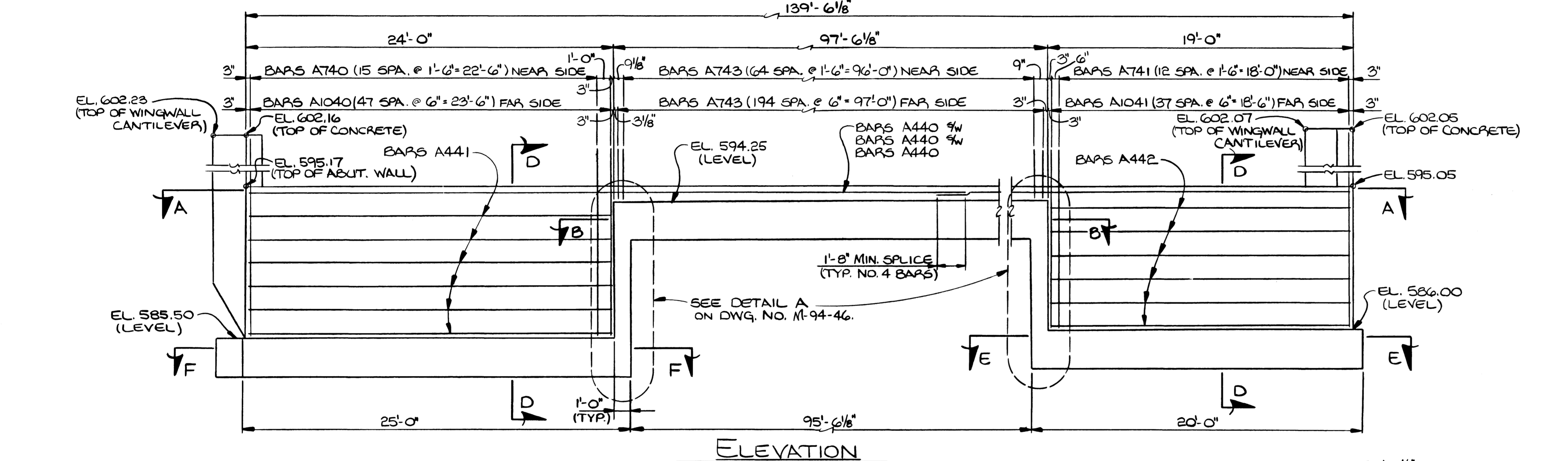
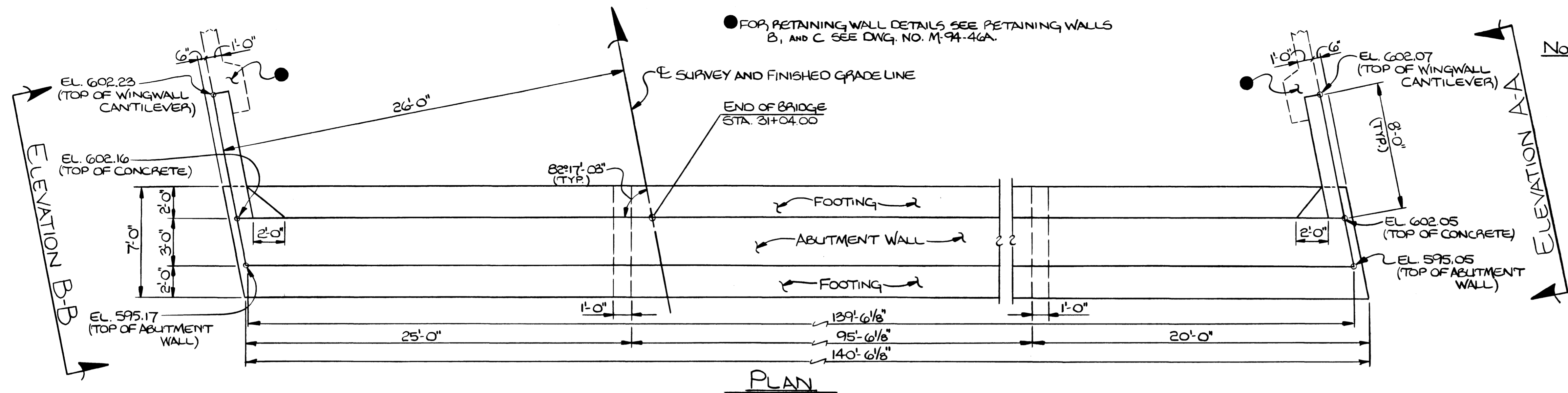
APPROVED *Lewis Evans*  
 DIRECTOR OF HIGHWAYS

MICROFILMED

PROJECT NO.	YEAR	SHEET NO.
I-440-4(49)206	1982	

REVISIONS			
NO.	DATE	BY	BRIEF DESCRIPTION
1	5-24-82	MAH.	REDUCED QUANTITIES
2	10-7-82	CNK.	GENERAL REVISIONS
3	19-19-83	MEF.	GENERAL REVISIONS

NOTE: FOR ELEVATIONS A-A AND B-B AND SECTIONS A-A AND B-B SEE ABUTMENT NO 2 DETAILS SHEET DWG. NO. M-94-46.



ESTIMATED QUANTITIES

Item	CLASS 'A' CONCRETE CY.	REINFORCING STEEL LB.
ABUTMENT NO. 2	160.0	20,010

STATE OF TENNESSEE  
 DEPARTMENT OF TRANSPORTATION  
 BUREAU OF HIGHWAYS  
 ABUTMENT No. 2  
 BRIGHTWOOD AVENUE  
 OVER INTERSTATE 440  
 STATION 266+18.76  
 DAVIDSON COUNTY  
 1982

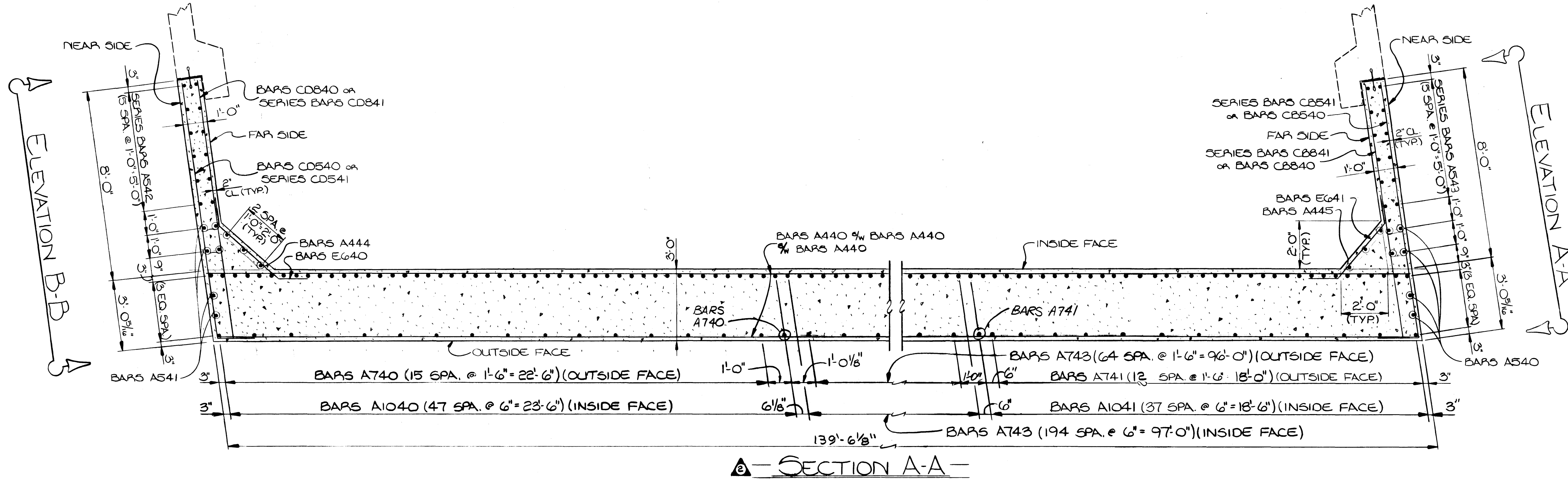
CORRECT *Clifton L. Lovell*  
 ENGINEER OF STRUCTURES  
 APPROVED *Lewis Brown*  
 DIRECTOR OF HIGHWAYS

DESIGNED BY M. HOLLORAN DATE FEB. 82  
 DRAWN BY M. DYE DATE FEB. 82  
 SUPERVISED BY A.L.H. & D.W.F. DATE FEB. 82  
 CHECKED BY M. HOLLORAN DATE APRIL 82

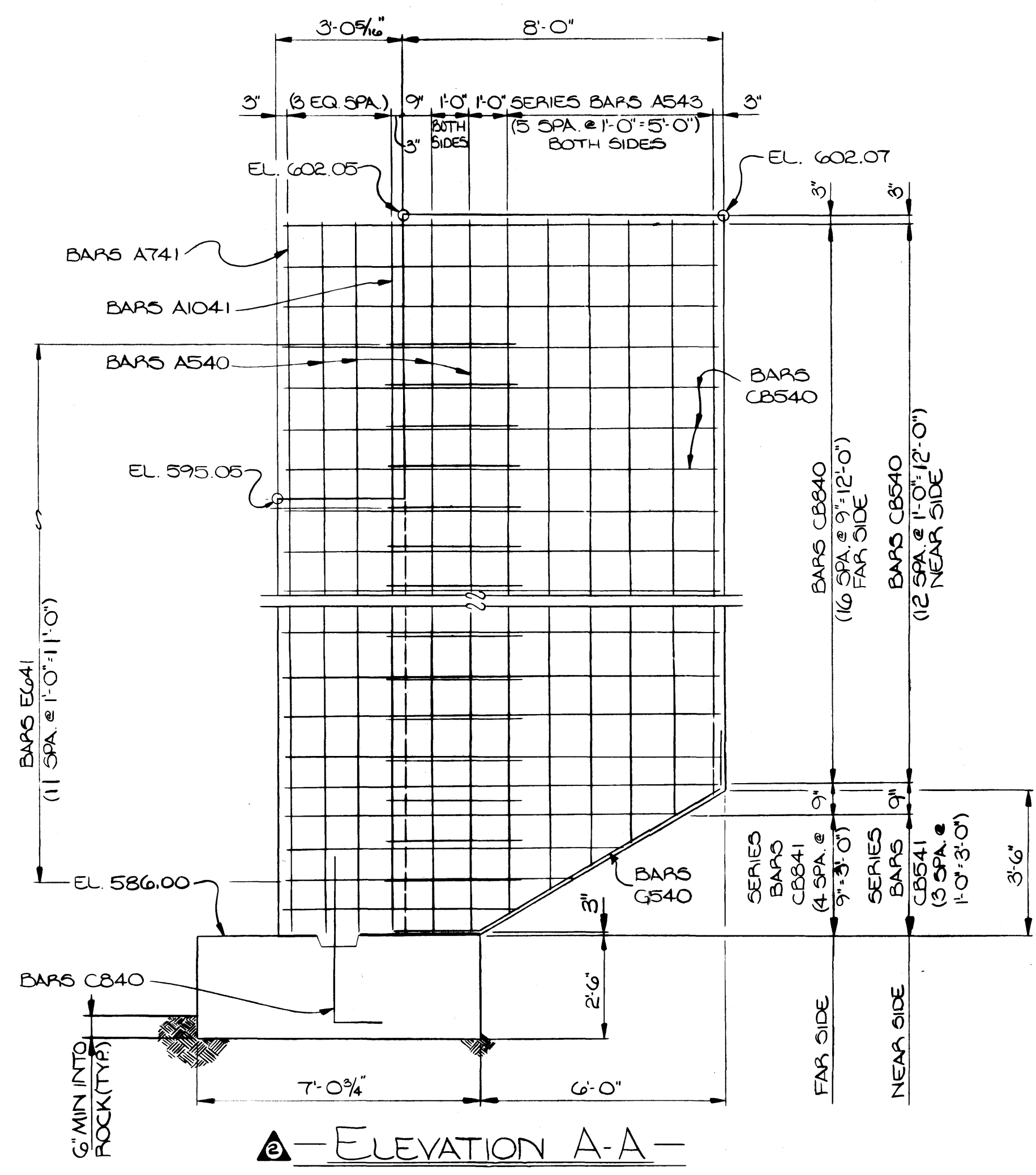
MICROFILMED

PROJECT NO.	YEAR	SHEET NO.
I-440-4(4)206	1982	

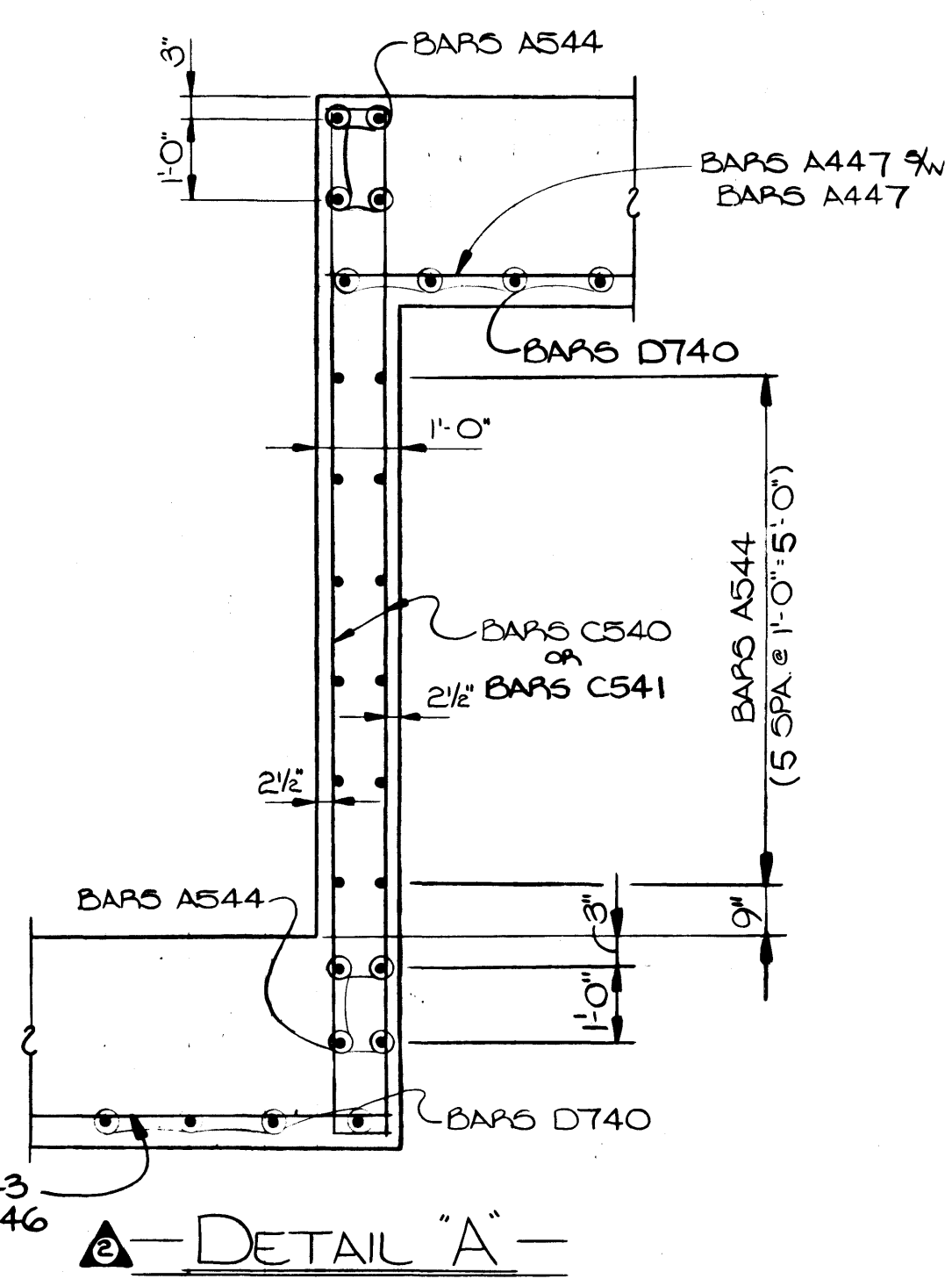
REVISIONS			
NO.	DATE	BY	BRIEF DESCRIPTION
1	10-7-82	CNK	GENERAL REVISIONS
2	9-19-82	MEF	GENERAL REVISIONS



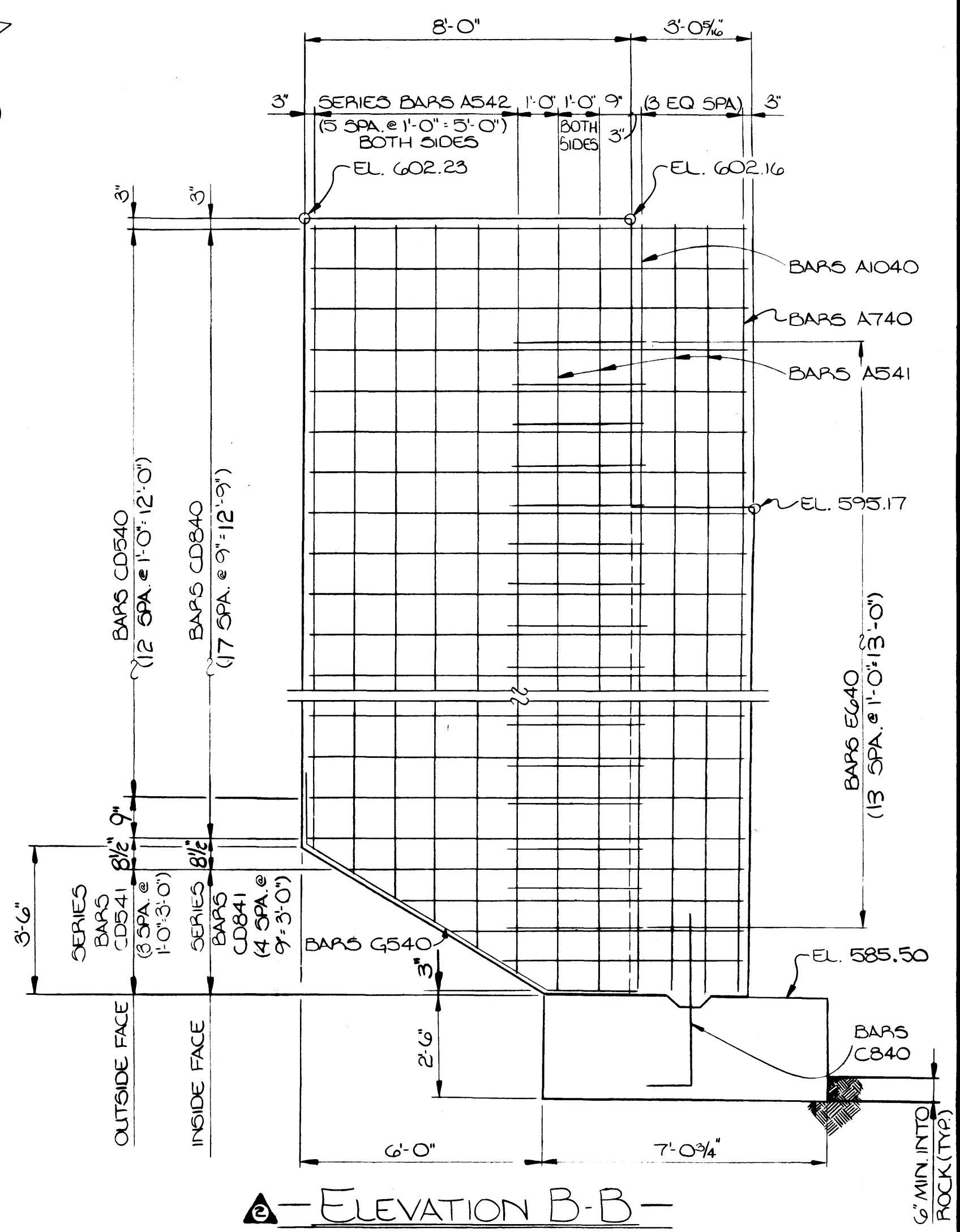
SECTION A-A



ELEVATION A-A



DETAIL A



ELEVATION B-B

DESIGNED BY M. HOLLORAN DATE FEB. 82  
 DRAWN BY MARK D. DATE FEB. 82  
 SUPERVISED BY P. L. HARRISON-DW.FORTNER DATE FEB. 82  
 CHECKED BY M. HOLLORAN DATE APRIL 82

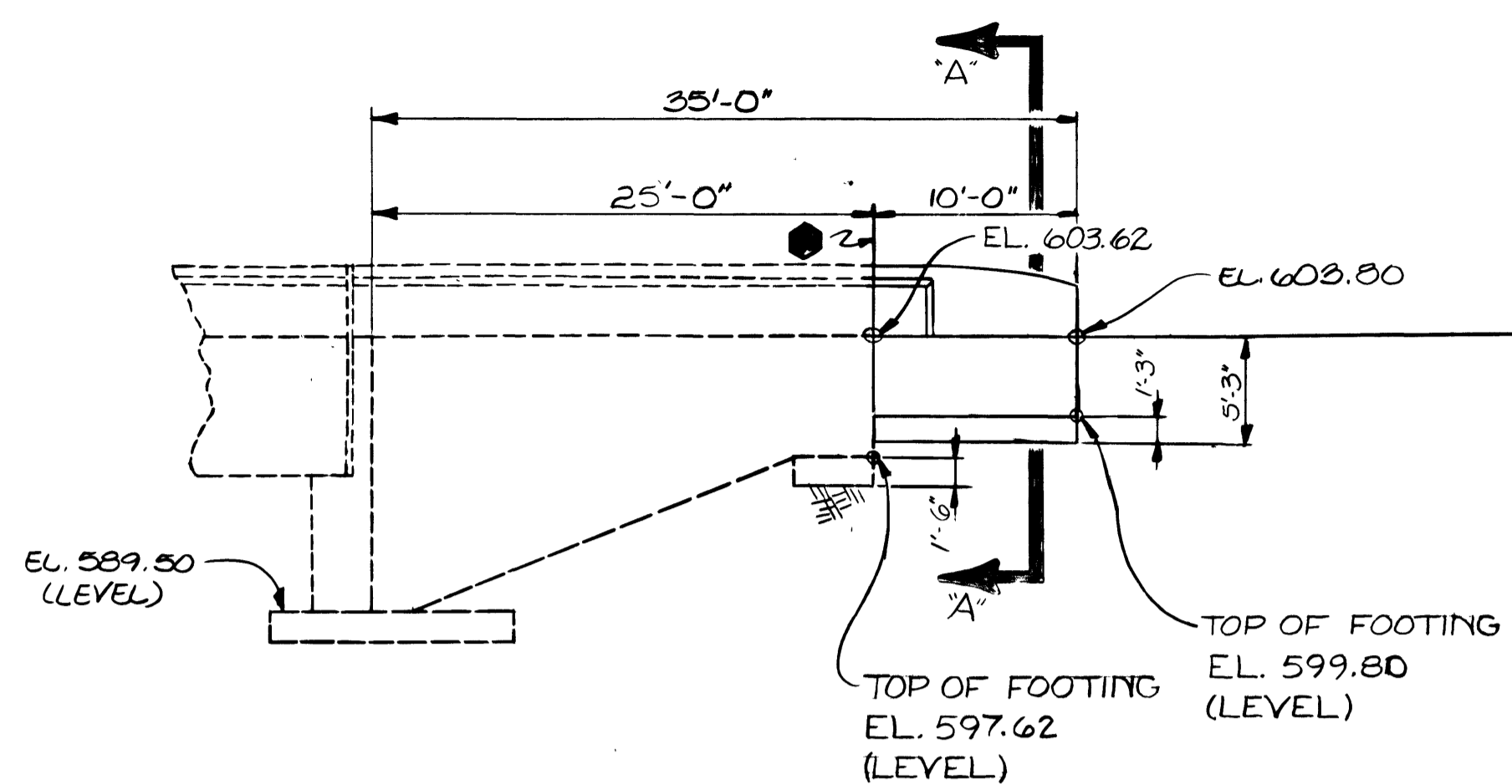
STATE OF TENNESSEE  
 DEPARTMENT OF TRANSPORTATION  
 BUREAU OF HIGHWAYS  
 ABUTMENT No. 2 DETAILS  
 BRIGHTWOOD AVENUE  
 OVER INTERSTATE 440  
 STA. 266+18.76  
 DAVIDSON COUNTY  
 1982

CORRECT *William L. Lovell*  
 ENGINEER OF STRUCTURES  
 APPROVED *Lewis Evans*  
 DIRECTOR OF HIGHWAYS

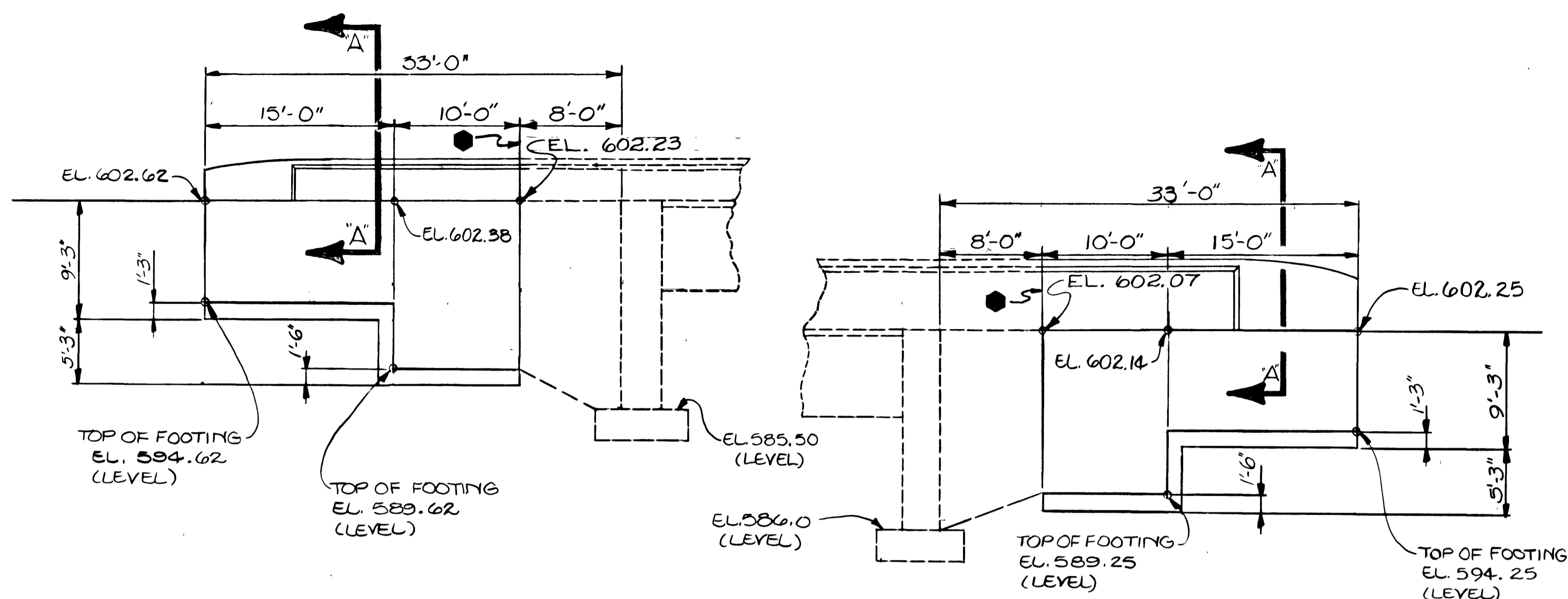
MICROFILMED

PROJECT NO.	YEAR	SHEET NO.
1-440-4(A) 206	1982	

REVISIONS			
NO.	DATE	BY	BRIEF DESCRIPTION
1	9-19-82	MEF	REVISED RET. WALLS & QUAN
2	2-2-84	MH	ADDED NOTE FOR ADDITIONAL JOINTS IN PARAPET RAIL



—ELEVATION—  
RETAINING WALL "A"

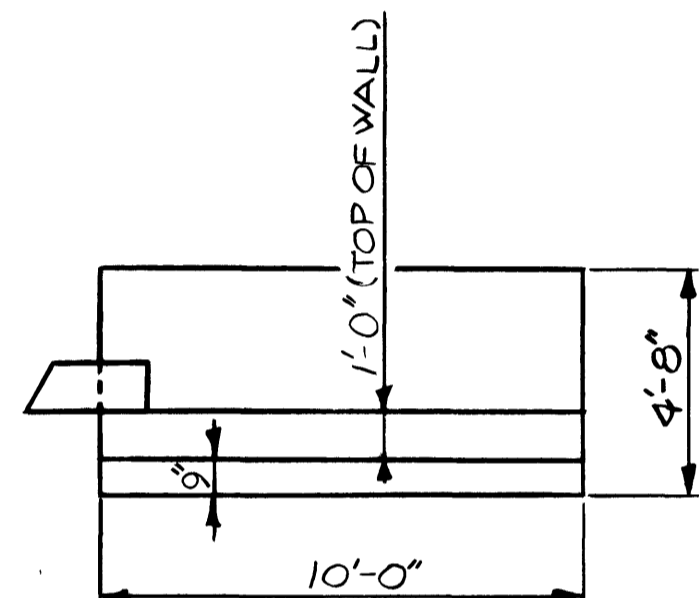


—ELEVATION—  
RETAINING WALL "B"

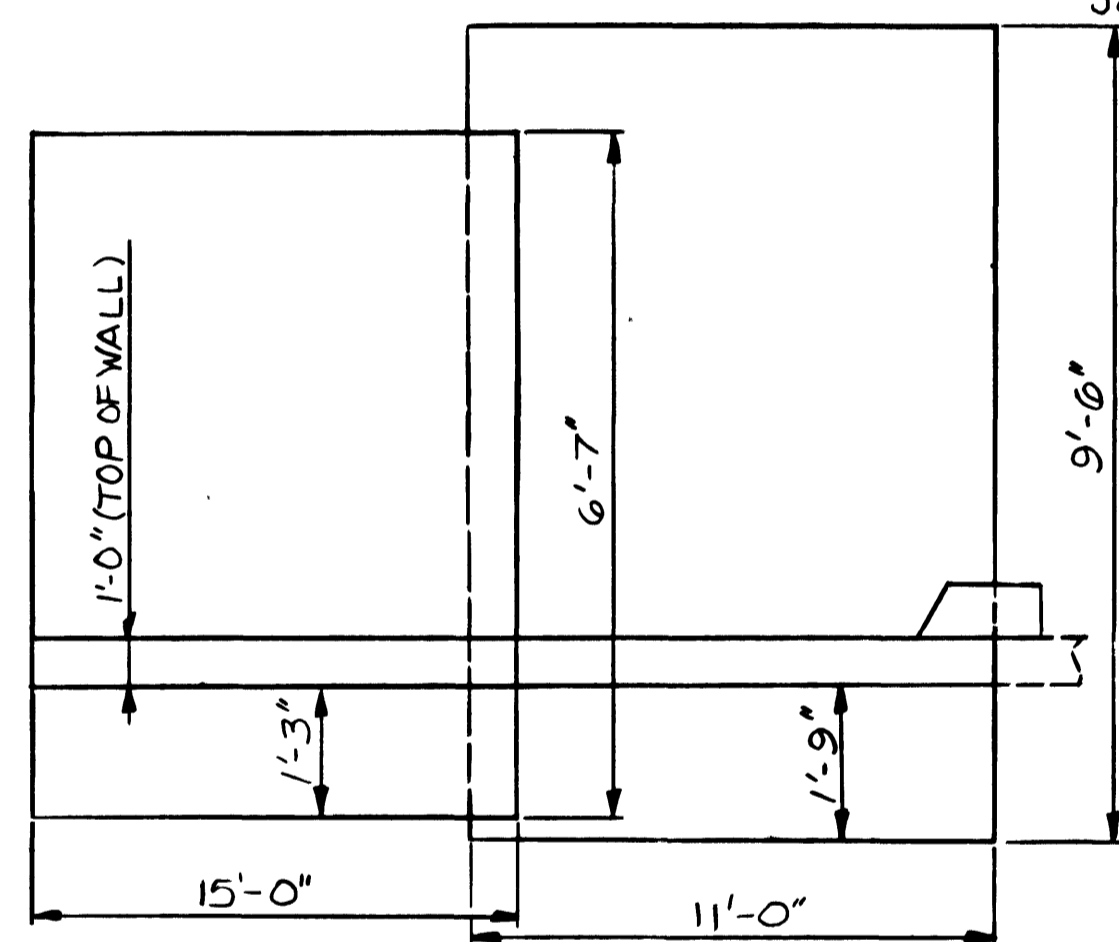
—ELEVATION—  
RETAINING WALL "C"

NOTE: FOR LOCATION OF RETAINING WALLS SEE LAYOUT DWG. NO. M-94-35.

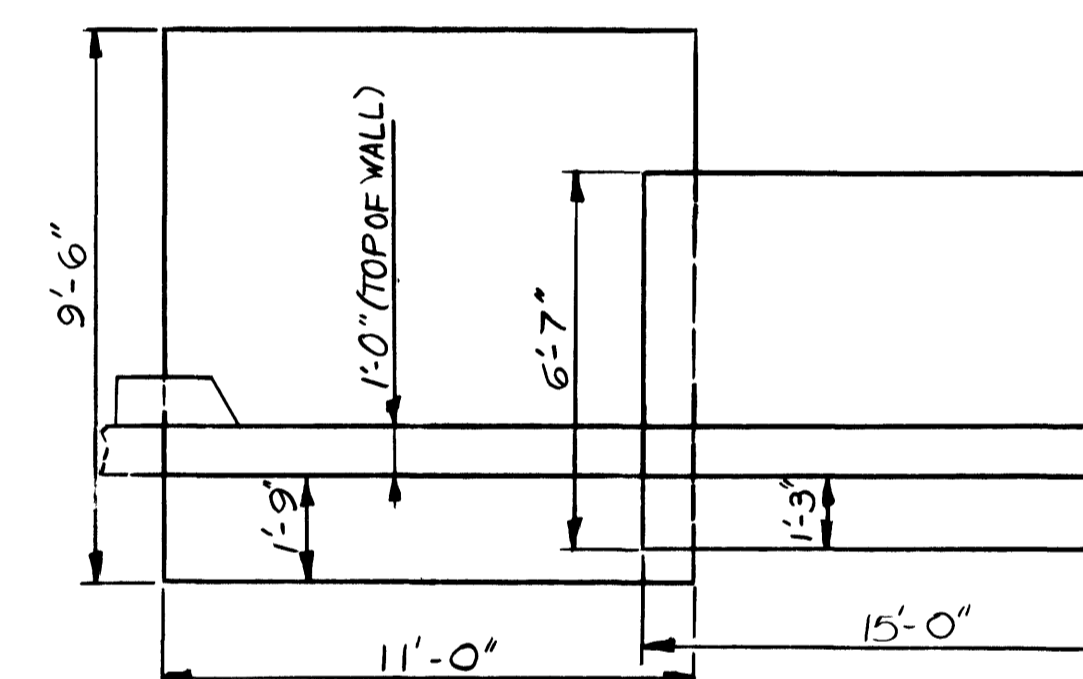
— DENOTES A JOINT REQUIRED IN THE PARAPET RAIL AT THE LOCATIONS DESIGNATED. IN ADDITION, A JOINT WILL BE REQUIRED AT THE EXPANSION JOINT AT ABUT. NO. 1 (AS SHOWN).



—PLAN—  
—RETAINING WALL "A"—

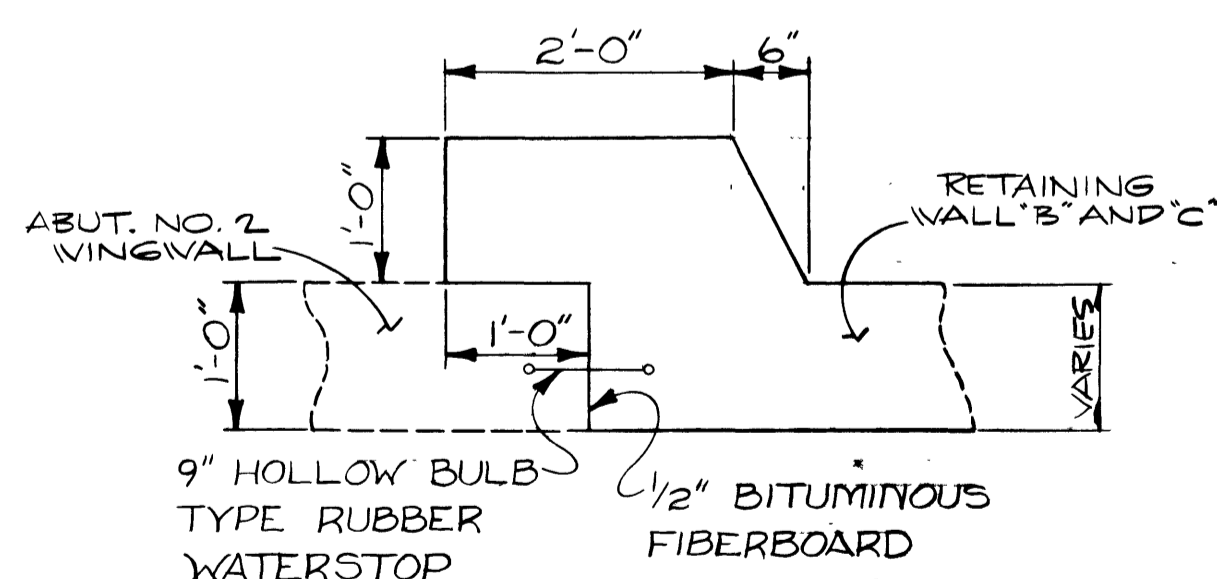


—PLAN—  
—RETAINING WALL "B"—

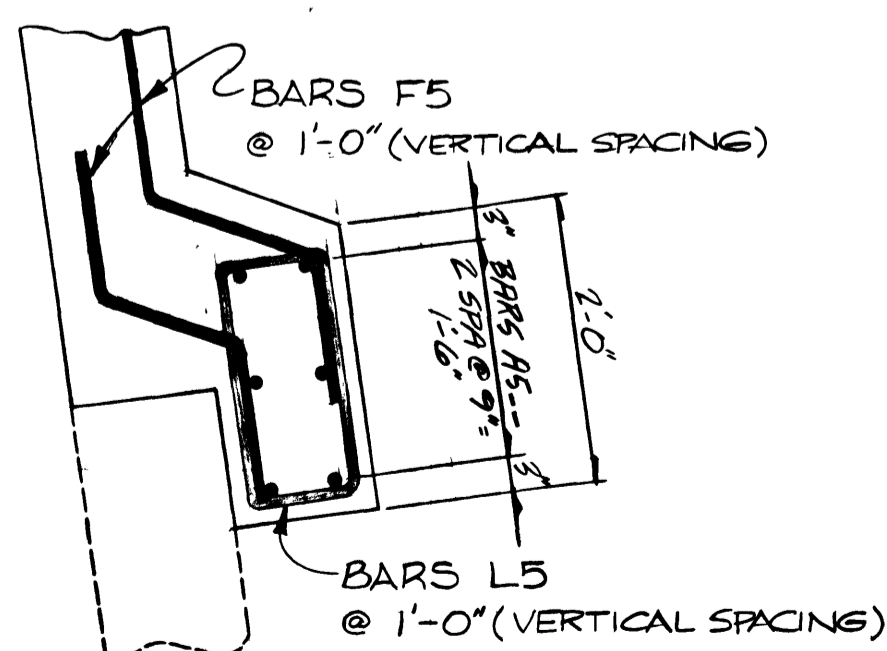


—PLAN—  
—RETAINING WALL "C"—

NOTE: ALL EXPOSED SURFACES OF RETAINING WALL SHALL RECEIVE A DECORATIVE FORM FINISH. (SEE NOTE ON CONCRETE FINISHES, DWG. NO. M-94-36)

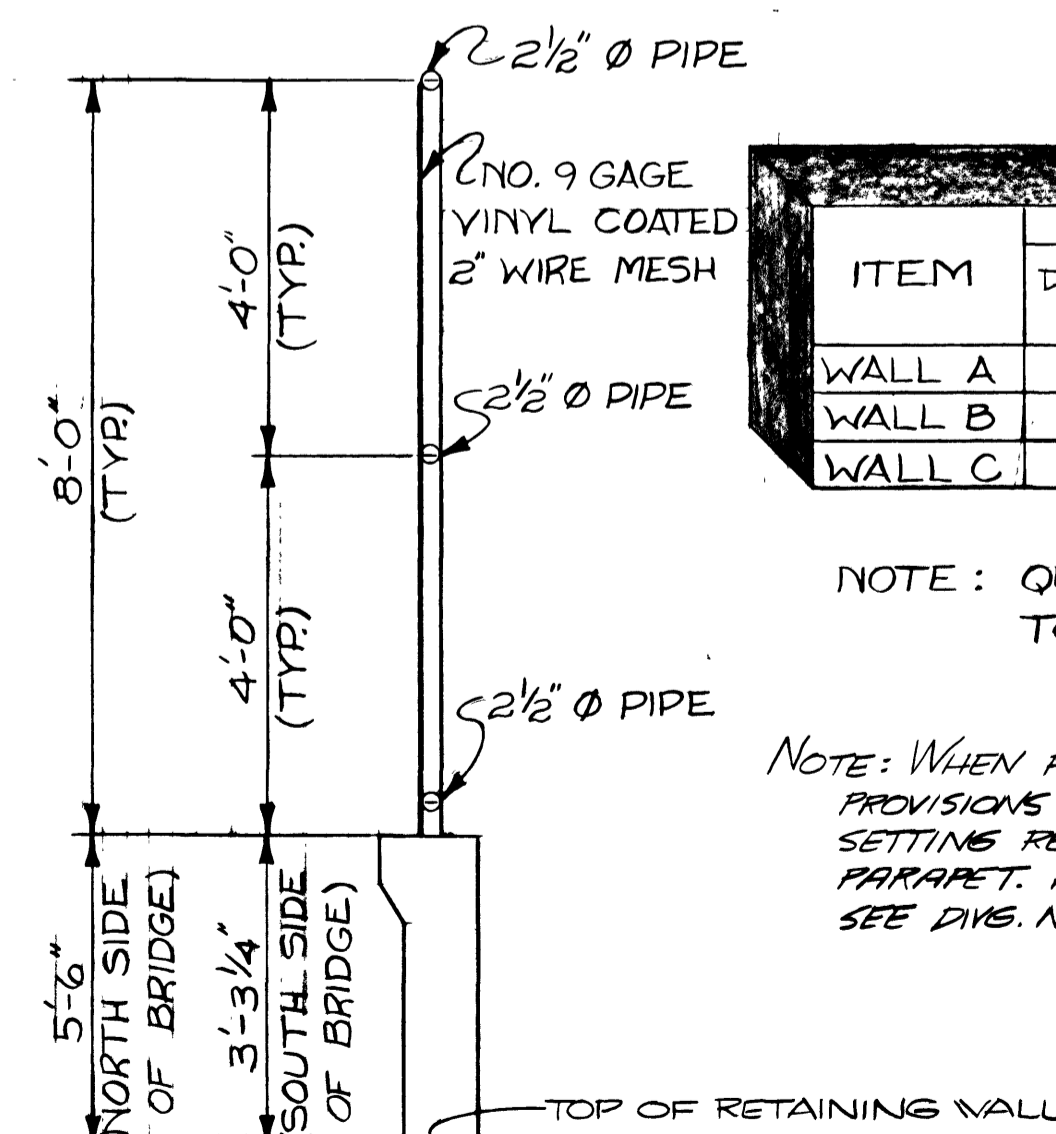


—WINGWALL JOINT DETAIL—



RETAINING WALL CANTILEVER—  
@ ABUT. NO. 2

NOTE: REINFORCEMENT SHOWN TO BE INCLUDED IN RETAINING WALLS "B" AND "C" ONLY.



—SECTION "A-A"—

—ESTIMATED QUANTITIES—

ITEM	EXCAVATION		CONCRETE C.Y.	STEEL BARS LBS.	CHAIN-LINK FENCE S.F.	EPOXY-BARS LBS.
	DRY C.Y.	ROCK C.Y.				
WALL A	10	11	3.8	211	80	134
WALL B	57	46	22.2	1,314	200	337
WALL C	57	46	22.2	1,314	200	—

NOTE: QUANTITIES FOR PARAPET WALL ON RETAINING WALL TO BE INCLUDED IN RETAINING WALL QUANTITIES.

NOTE: WHEN POURING RETAINING WALLS PROVISIONS SHALL BE MADE FOR SETTING REINFORCING STEEL FOR PARAPET. FOR PARAPET DETAILS SEE DWG. NO. M-94-40.

STATE OF TENNESSEE  
DEPARTMENT OF TRANSPORTATION  
BUREAU OF HIGHWAYS

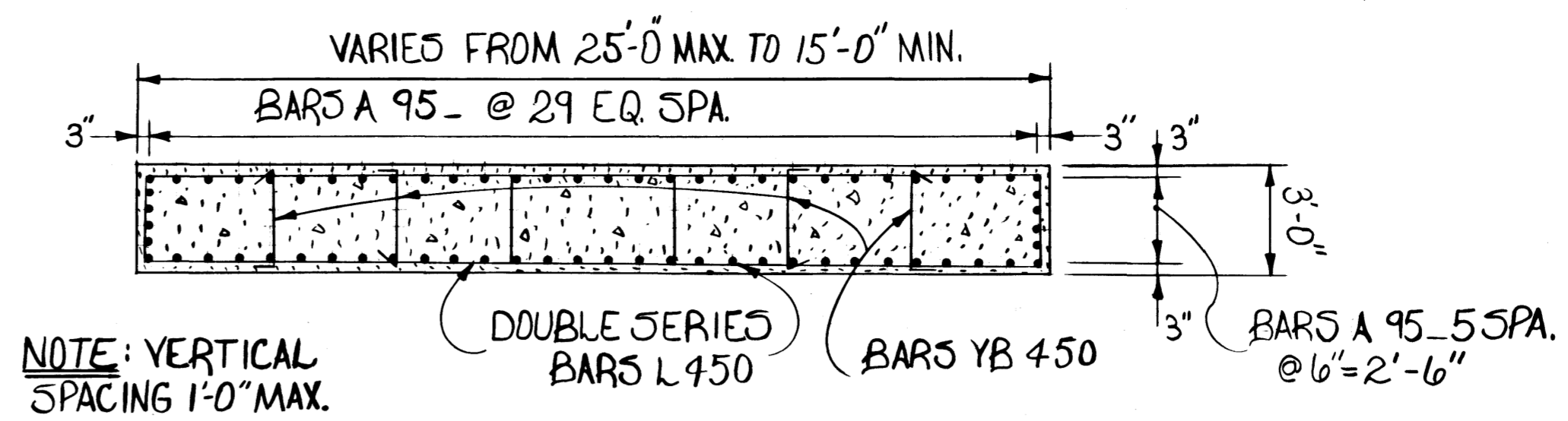
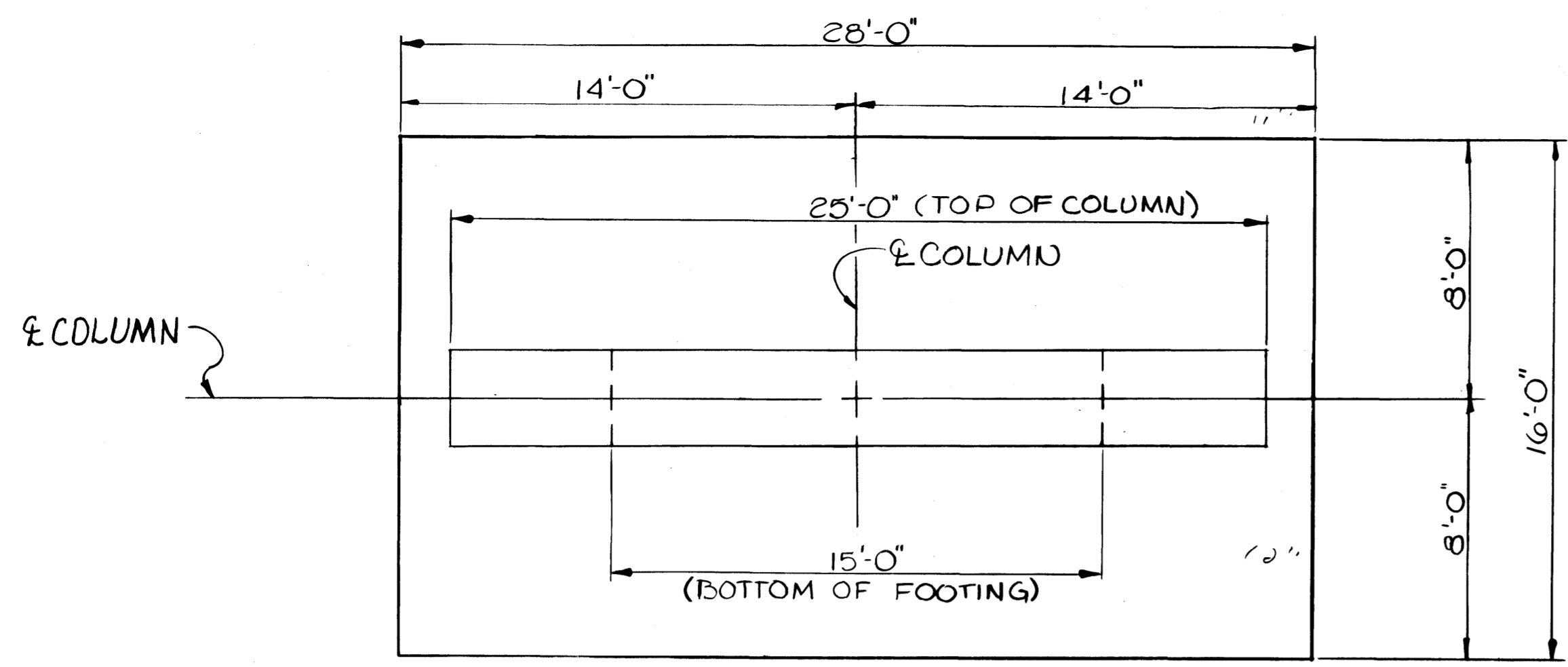
RETAINING WALLS A, B, & C  
BRIGHTWOOD AVENUE  
OVER INTERSTATE 440  
STATION 266+18.76  
DAVIDSON COUNTY  
1982

CORRECT *Colleen L. Lovell*  
ENGINEER OF STRUCTURES  
APPROVED *Lewis G. Gamm*  
DIRECTOR OF HIGHWAYS

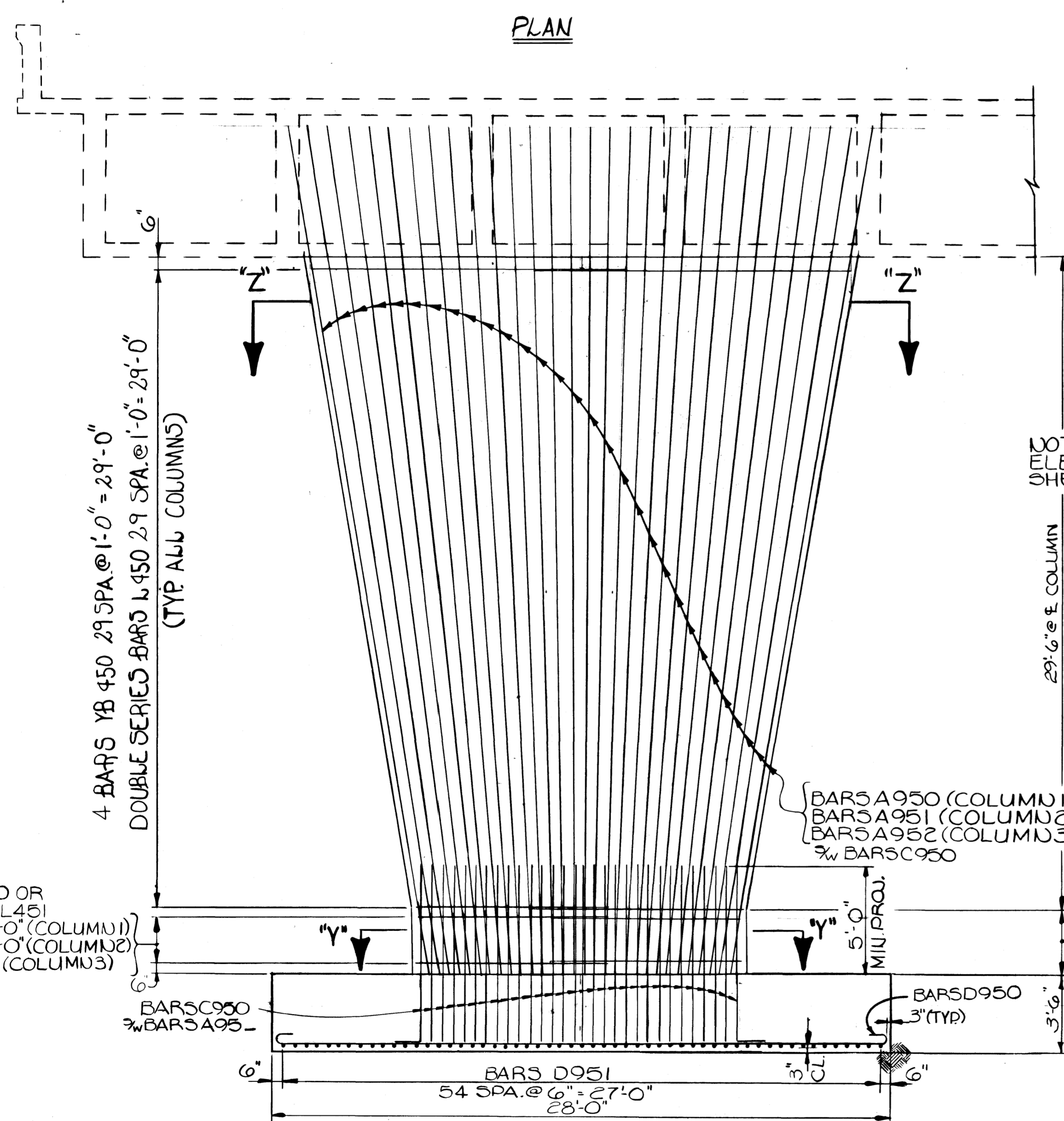
SEE DETAIL ON PARAPET SECTION, NORTH AND SOUTH SIDE OF BRIDGE. DWG. NO. M-94-40

PROJECT NO.	YEAR	SHEET NO.
1-440-4(47)206	1982	

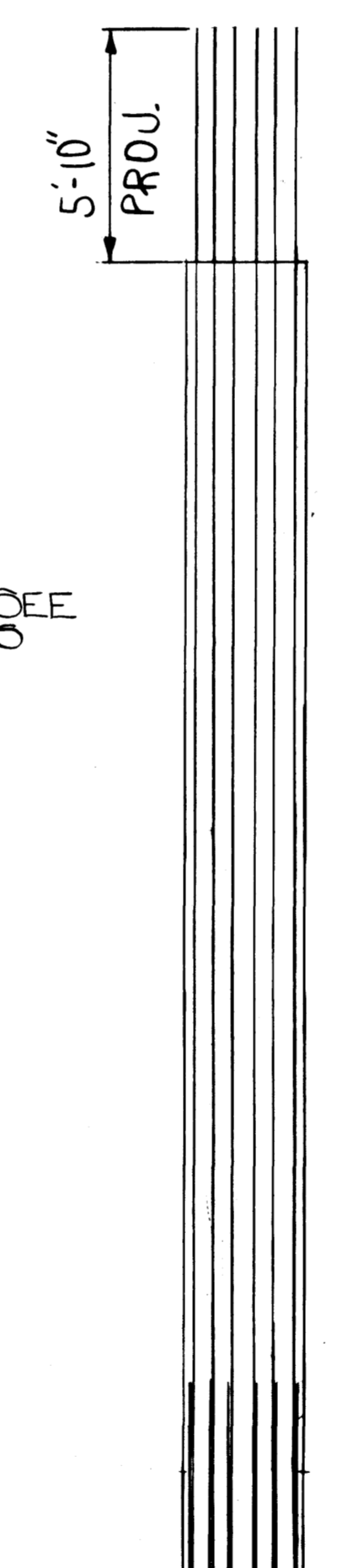
REVISIONS			
NO.	DATE	BY	BRIEF DESCRIPTION
1	5-24-82	MAH.	REDUCED QUANTITIES
2	10-7-82	CNK	GENERAL REVISIONS



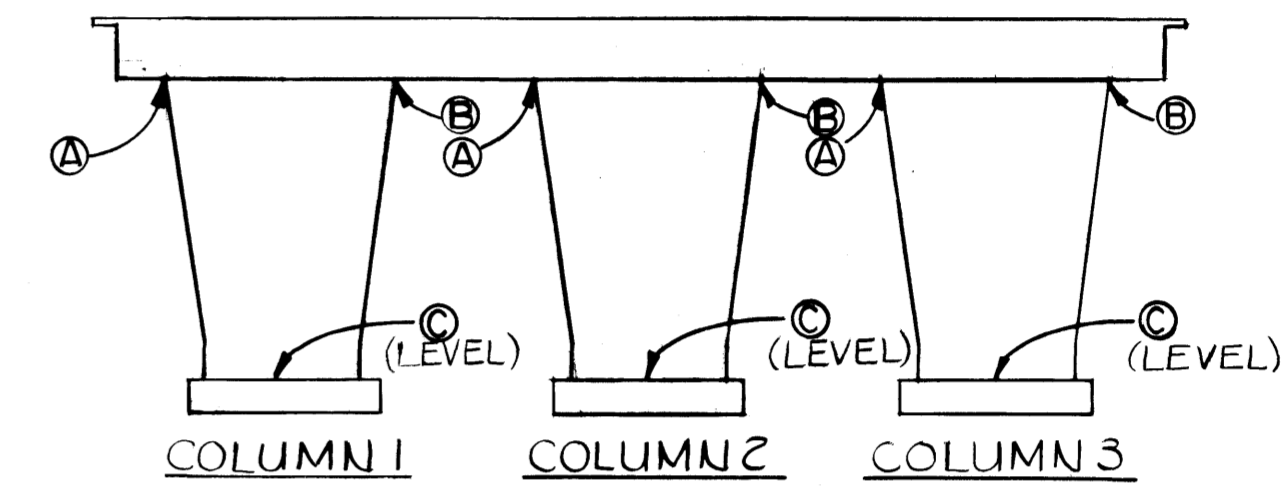
SECTION "Z"-Z"



ELEVATION (LOOKING FORWARD ON SURVEY)



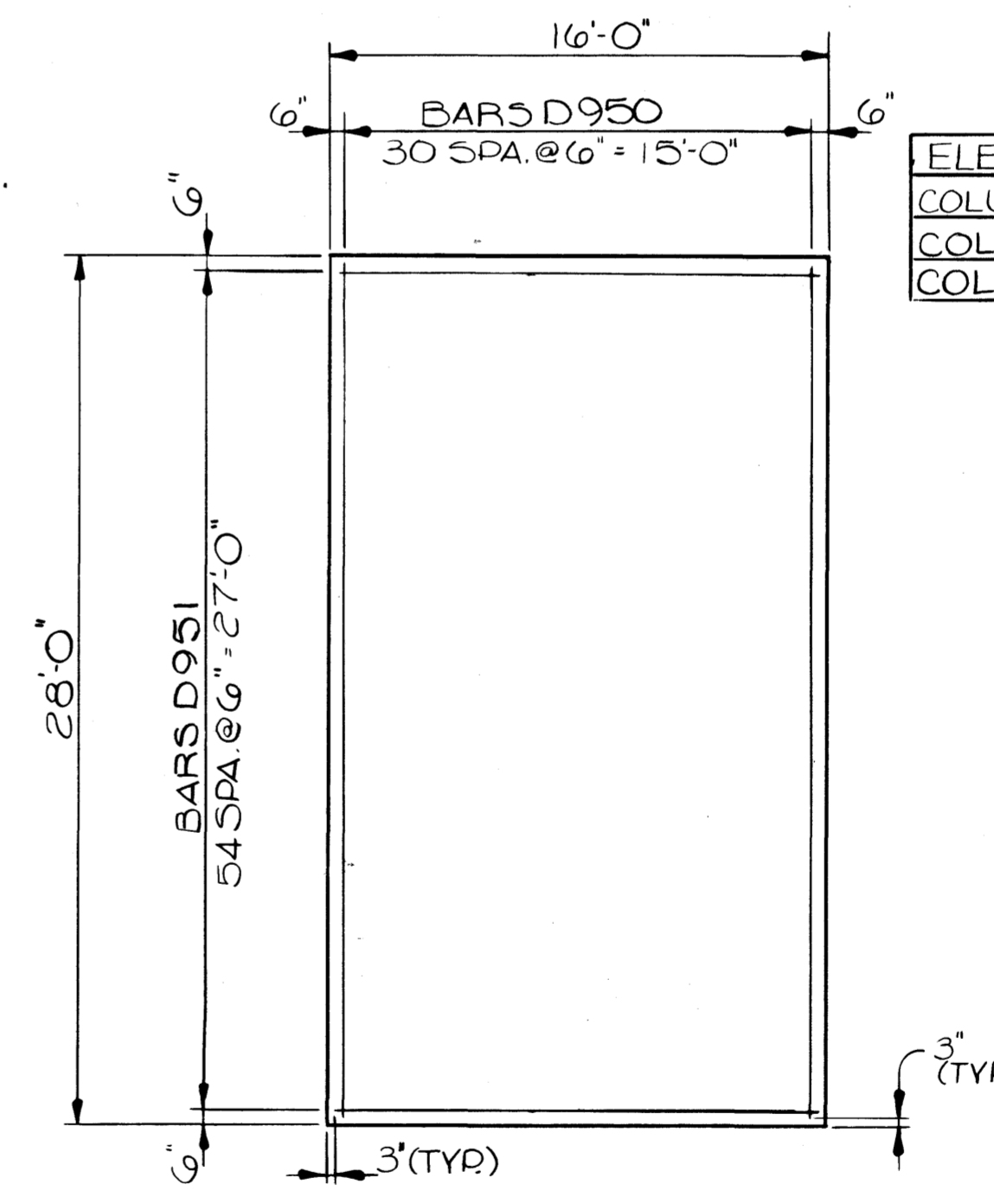
END ELEVATION



ELEVATION DETAILS (LOOKING FORWARD ON SURVEY)

TABLE OF ELEVATIONS

ELEVATION	A	B	C
COLUMN 1	595.41	595.43	562.50
COLUMN 2	595.45	595.47	562.50
COLUMN 3	595.48	595.51	564.50



PLAN OF FOOTING

ESTIMATED QUANTITIES		
ITEM	CONCRETE CLASS "A" C.Y.	REINFORCING STEEL LBS.
BENT NO. 1	383.1	57,578

NOTE: FOR ELEVATIONS SEE ELEVATION DETAILS THIS SHEET.

NOTE: COLUMN STEEL TO EXTEND 5'-10" INTO CAP BEAM.

NOTE: VERTICAL SPACING 1'-0" MAX.

SECTION "Y"-Y

DESIGNED BY MARK HOLLORAN DATE 2-82  
 DRAWN BY MIKE FAGAN DATE 3-82  
 SUPERVISED BY HOLLORAN & HARRISON DATE 3-82  
 CHECKED BY MARK HOLLORAN DATE 4-82

STATE OF TENNESSEE  
 DEPARTMENT OF TRANSPORTATION  
 BUREAU OF HIGHWAYS  
 Bent No. 1  
 Brightwood Avenue  
 over Interstate 440  
 Station 266+18.76  
 Davidson County  
 1982

CORRECT *Challen L. Foreall*  
 ENGINEER OF STRUCTURES  
 APPROVED *Louis Christ*  
 DIRECTOR OF HIGHWAYS

NOTE: THE SUFFIX "E", FOR BARS SO MARKED, DENOTES EPOXY COATED REINFORCING STEEL.

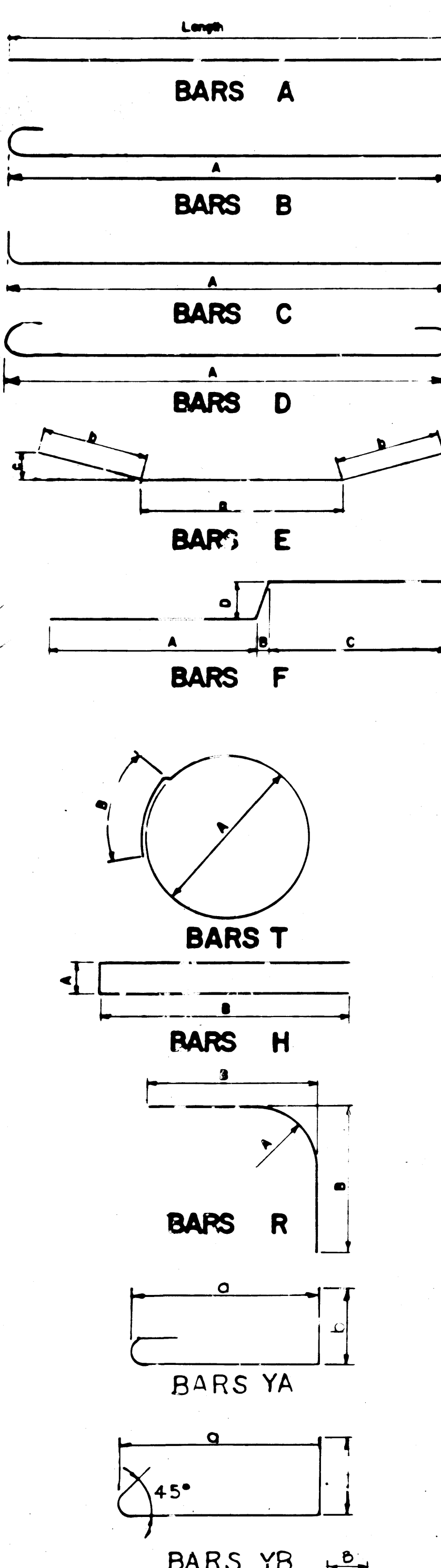
# BILL OF STEEL

Const. No. 19014-3110-44

## RIGHT LANE

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
3	TENN.	I-440-4401	1982	16	16

SUPERSTRUCTURE					ABUTMENTS NO. 1					ABUTMENT NO. 1 (CONTINUED)								
Bar	Location	Size	No. Reqd.	Bending Dimensions	Length	Bar	Location	Size	No. Reqd.	Bending Dimensions	Length	Bar	Location	Size	No. Reqd.	Bending Dimensions	Length	
A400	P/RET/RDWAY BRKT.	4	41		60'-0"	A440	RDWY. BRKT.	4	3		47'-4"							
A402	PARAPET	4	13		39'-2"	A441	ENDWALL	4	42		47'-7"							
A403	RDWY. BRKT.	4	1		24'-8"	A442	ABUT. WALL	4	10		41'-6"	E640	FILLET	6	6	2'-0" 1'-4" 1'-0"	4'-8"	
A404	PARAPET	4	10		18'-2"	A443	FILLET	4	3		10'-8"	E641	FILLET	6	11	3'-0" 1'-2" 1'-0"	5'-8"	
A405	PARAPET	4	3		29'-8"	A444	FOOTING	4	12		47'-10"							
A500	WEBS	5	576		60'-0"	A445	FOOTING	4	24		44'-0"	F540	WINGWALL	5	6	2'-0" 1'-0" 2'-0" 1'-0"	5'-11"	
A502	BOTTOM SLAB	5	246		46'-1"	A447	FILLET	4	3		5'-2"	F541	WINGWALL	5	6	2'-0" 1'-0" 2'-0" 1'-0"	5'-2"	
A600	S. DIAPHRAGM/ PARAPET	6	23		60'-0"	A448	ABUT. WALL	4	6		47'-9"	H540	RDWY. BRKT.	5	138	1'-8" 4'-2"	2'-8"	
A602	BENT DIAPHRAGM	6	10		32'-7"	Series	WINGWALL	5	2			H541	WING FOOTING	5	5	8" 4'-2"	0'-0"	
A604	PARAPET	6	2		29'-8"							H640	ABUT. WALL	6	73	2'-8" 1'-0"	4'-7"	
A605	PARAPET	6	5		32'-2"							H641	WING FOOTING	6	5	3'-8" 8"	8'-0"	
A606	PARAPET	6	3		18'-2"	Series	WINGWALL	5	2									
A607	END DIAPHRAGM	6	29		24'-8"							L540	FOOTING	5	30	4'-8" 1'-0" 1'-1"	12'-4"	
A608	BOTTOM SLAB	9	498		60'-0"							L541	WINGWALL	5	6	8" 1'-0" 1'-8"	5'-7"	
A609	BOTTOM SLAB	9	90		53'-2"	A542	APRON WALL	5	28		3'-0"							
A610	BOTTOM SLAB	9	106		41'-3"	A543	APRON WALL	5	16		7'-1"							
A611	BOTTOM SLAB	9	90		23'-0"	A544	WINGWALL	5	2		3'-9"							
A612	BOTTOM SLAB	9	90		16'-0"	A545	WINGWALL	5	2		13'-1"							
A1102	BENT DIAPHRAGM	11	26		60'-0"	A546	WINGWALL	5	2		8'-0"	A446	ENDWALL	4	6		47'-7"	
A1103	BENT DIAPHRAGM	11	13		32'-7"	A547	WINGWALL	5	2		2'-11"							
L501	WEB	5	678	2'-0" 1'-0"	3'-6"	A640	ABUT. WALL	6	2		7'-8"							
L502	BOTTOM SLAB	5	532	4'-0" 1'-0"	47'-0"	A642	ABUT. WALL	6	12		48'-3"	A642E	ABUT. WALL	6	94	7'-11"	8'-10"	
L641	PARAPET	5	234	1'-6" 1'-0"	3'-1"	A643	WINGWALL	6	12		5'-8"	F440E	SIDEWALK	4	4	1'-0" 0'-3" 4'-7" 1'-0"	6'-6"	
L642	WEBS	5	192	1'-8" 1'-0" 1'-8"	15'-8"	A644	WINGWALL	6	2		8'-0"	Z440E	SIDEWALK	4	2	1'-0" 1'-0"	2'-11"	
L643	WEBS	5	192	1'-8" 1'-0" 1'-8"	15'-8"	A742	FOOTING	7	12		4'-8"	K400E	CURB	4	4	8" 4'-4" 1'-0"	3'-8"	
L644	RDWY. BRKT.	5	138	3'-0" 3'-0"	4'-7"	A743	FOOTING	7	20		2'-8"	A744	WINGWALL	7	5		12'-10"	
L645	BENT DIAPHRAGM	6	124	2'-2" 3'-3"	8'-7"	A745	WINGWALL	7	1		18'-4"	Series	ABUT. WALL	6	1		23'-0"	
L646	PARAPET	4	234	5'-11" 1'-0"	6'-9"													
L647	PARAPET	4	245	3'-9" 1'-0"	4'-7"													
L648	PARAPET	6	234	5'-11" 1'-0"	6'-9"													
A402E	S.WALK/P/RET	4	45		60'-0"	Series	ABUT. WALL	6	1									
A403E	S.WALK	4	2		29'-8"													
A404E	PARAPET	4	3		39'-2"													
A602E	TOP SLAB	5	142		60'-0"	C642	WINGWALL	6	3	14'-11"	19'-10"							
A603E	TOP SLAB	5	6		60'-0"	C643	FOOTING	6	2	3'-8"	4'-6"							
A604E	TOP SLAB	5	2		3'-6"													
A605E	TOP SLAB	5	142		46'-1"													
A606E	TOP SLAB	6	6		5'-6"													
A607E	TOP SLAB/P/RET	6	528		60'-0"													
A608E	TOP SLAB	6	175		34'-6"													
A609E	TOP SLAB	6	752		60'-0"													
A610E	END DIAPHRAGM	6	976		25'-0"	B740	WINGWALL	7	7	25'-3" 1'-2" 1'-6"	26'-10"							
A611E	PARAPET	6	1		29'-8"	B741	WINGWALL	7	2	21'-8" 1'-2" 1'-6"	28'-10"							
A612E	PARAPET	6	1		39'-2"	Series	WINGWALL	7	1									
A1002E	TOP SLAB	10	142		40'-0"	B742												
A1003E	TOP SLAB	10	142		27'-4"													
A1004E	TOP SLAB	10	126		12'-11"													
A1005E	TOP SLAB	10	126		24'-9"	Series	WINGWALL	8	1									
A1006E	TOP SLAB	10	126		41'-0"	B840												
A1007E	TOP SLAB	10	142		32'-10"													
A1008E	BENT DIAPHRAGM	11	14		55'-9"	B841	WINGWALL	8	4	10'-10" 1'-4" 2'-6"	12'-2"							
B1002E	BENT DIAPHRAGM	11	14	5'-5" 1'-7"	60'-0"													
B2002E	WEBS	5	678	6'-1" 1'-0"	7'-1"	B842	WINGWALL	8	2	21'-3" 1'-4" 2'-6"	29'-0"							
B3002E	FUTURE WALL	4	352	3'-0" 1'-0"	4'-0"	B843	WINGWALL	8	7	25'-3" 1'-4" 2'-6"	27'-0"							
B4002E	TOP SLAB	5	142	1'-0" 1'-0"	15'-8"	B844	WINGWALL	8	7	8'-10" 1'-4" 2'-6"	10'-2"							
B4003E	PARAPET	5	245	1'-6" 1'-0"	3'-1"	B845	WINGWALL	8	6	8'-2" 1'-0" 1'-8"	19'-2"							
B4004E	TOP SLAB	10	268	6'-4" 6'-8"	13'-0"	B846	WINGWALL	6	2	5'-6" 1'-0" 1'-8"	6'-6"							
B4005E	SIDEWALK	4	420	1'-0" 3" 4'-7" 1'-0"	6'-6"	Series	WINGWALL	6	2									
B4006E	BENT DIAPHRAGM	6	124	2'-2" 6'-0"	14'-1"													
B4007E	PARAPET	6	245	3'-9" 1'-0"	4'-7"													
K400E	CURB	4	264	8" 4'-4" 1'-0"	3'-8"													
L500E	END DIAPHRAGM	5	134	1'-2" 1'-0" 6'-3"	15'-8"													
Z400E	SIDEWALK	4	213	1'-0" 1'-0"	3'-4"													



ABUTMENT NO. 2					BENT NO. 1					BENTS NO.								
Bar	Location	Size	No. Reqd.	Bending Dimensions	Length	Bar	Location	Size	No. Reqd.	Bending Dimensions	Length	Bar	Location	Size	No. Reqd.	Bending Dimensions	Length	
A440	ABUT. WALL	4	6		47'-6"	A950	COLUMN #1	9	65		32'-2"							
A441	ABUT. WALL	4	12		29'-8"	A951	COLUMN #2	9	65		32'-2"							
A442	ABUT. WALL	4	12		18'-8"	A952	COLUMN #3	9	65		37'-9"							
A443	FOOTING	4	5		24'-9"													
A444	FILLET	4	3		17'-9"	C950	COLUMN/FOOTING	9	224	8"	9'-9"							
A445	FILLET	4	3		17'-0"													
A540	ABUT. WALL	5	6		15'-10"	D950	FOOTING	9	93	2'-6"	30'-0"							
A541	ABUT. WALL	5	6		16'-6"	D951	FOOTING	9	165	15'-6"	18'-0"							
Series	WINGWALL	5	2			Series	COLUMNS	4	6	"A" DIM. VARIES FROM 8'-5" TO 14'-4 1/2" IN INC. OF (30 BARS)								
A542	Series	WINGWALL	5	2			Series	COLUMNS	4	6	"A" DIM. VARIES FROM 8'-5" TO 14'-4 1/2" IN INC. OF (30 BARS)							
Series	WINGWALL	5	2			Series	COLUMNS	4	6	"A" DIM. VARIES FROM 8'-5" TO 14'-4 1/2" IN INC. OF (30 BARS)								
A543	Series	WINGWALL	5	2			Series	COLUMNS	4	6	"A" DIM. VARIES FROM 8'-5" TO 14'-4 1/2" IN INC. OF (30 BARS)							
A544	FOOTING	5	40		8'-8"	B950	COLUMNS	4	388	2'-8" 8"	3'-10"							
A740	ABUT. WALL	7	17		16'-6"													
A741	ABUT. WALL	7	14		15'-10"													
A1040	ABUT. WALL	10	48		16'-6"													
A1041	ABUT. WALL	10	38		15'-10"		</											