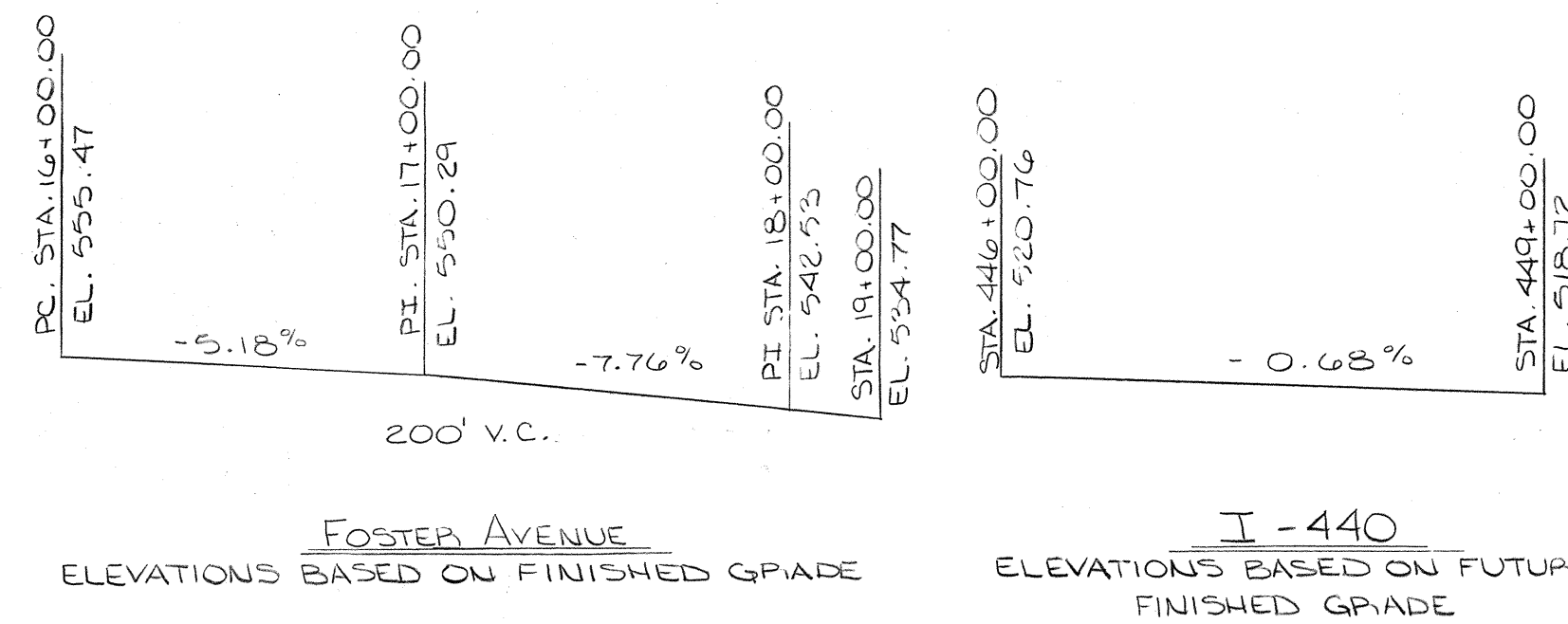
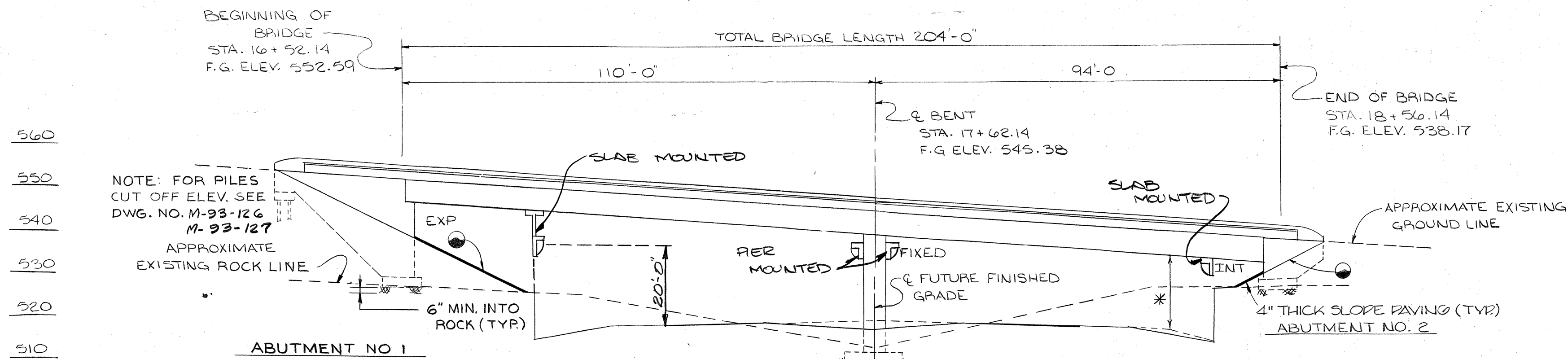


PROJECT NO.	YEAR	SHEET NO.	
I-440-4(44)22	1981	77	
REVISIONS			
NO.	DATE	BY	BRIEF DESCRIPTION
1	12-2-82	ELD	Added Signs
2	2-2-83	KLE	ADDED CONDUIT
3	5-3-83	JHP	BRIDGE RAILING



NOTE: FOR PILES CUT OFF ELEV. SEE DWG. NO. M-93-126 M-93-127

NOTE: ABUTMENT NO. 1 ONLY THE FILL AT THE END OF THE BRIDGE SHALL BE IN PLACE AND THOROUGHLY COMPACTED BEFORE ANY ABUTMENT PILES ARE DRIVEN.

NOTE: THE CONTRACTOR SHALL SUPPORT THE ABUTMENTS UNTIL THE SUPERSTRUCTURE IS IN PLACE, FALSEWORK HAS BEEN REMOVED AND BACKFILLING HAS BEEN COMPLETED.

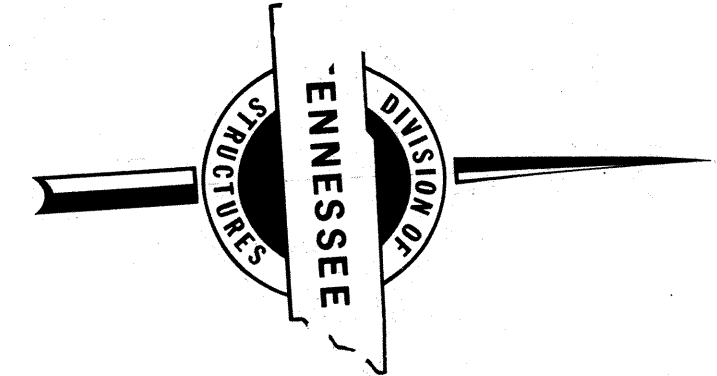
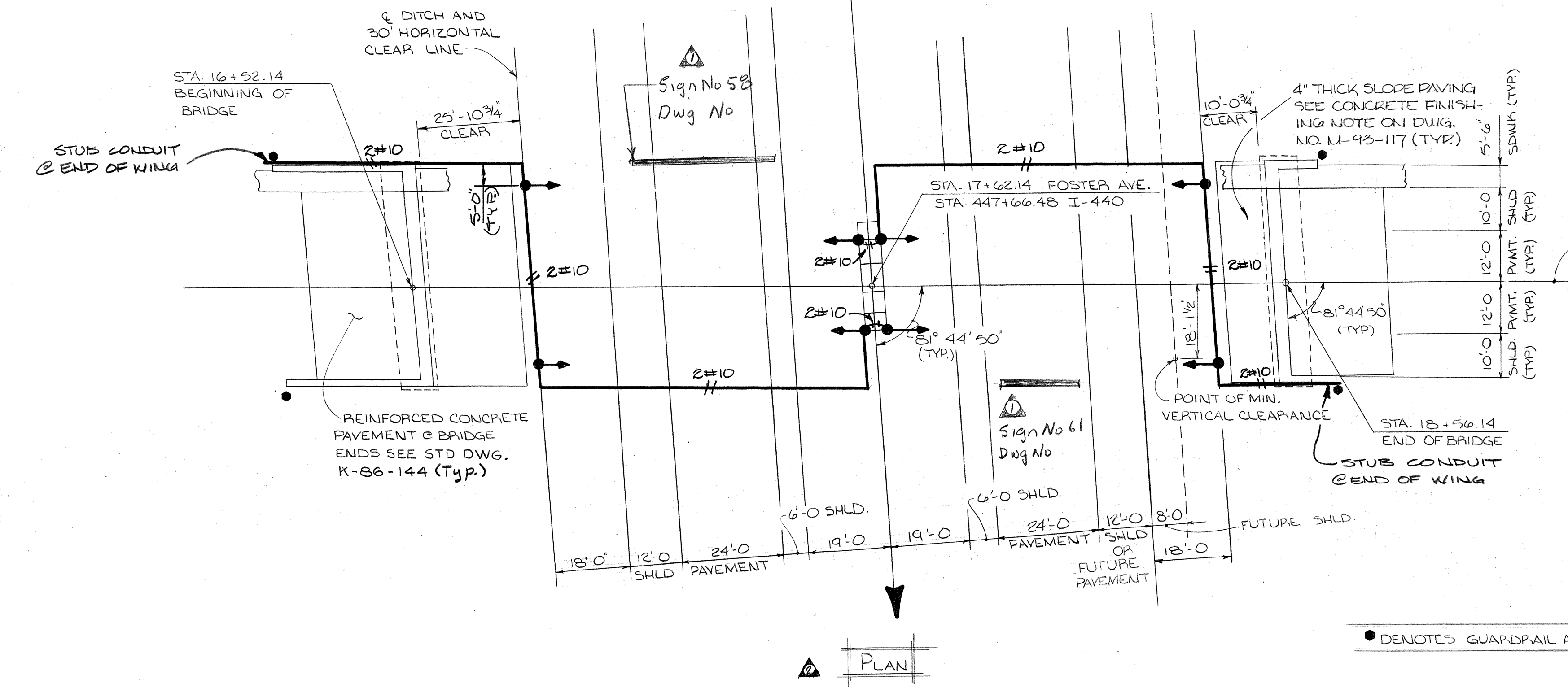
NOTE: 2:1 SLOPE @ RIGHT ANGLES TO ABUTMENT

* NOTE: MIN. VERTICAL CLEARANCE = 16'-6" VERTICAL CLEARANCE @ EDGE OF FUTURE SHOULDER = 16'-6"

LIST OF DRAWINGS	DWG. NO.	LAST REV. DATE
LAYOUT	M-93-116	5-3-83
GENERAL NOTES AND ESTIMATED QUANT.	M-93-117	10-4-83
FOUNDATION DATA	M-93-118	
SUPERSTRUCTURE	M-93-119	10-4-83
SUPERSTRUCTURE DETAILS	M-93-120	5-3-83
SUPERSTRUCTURE DETAILS	M-93-121	5-11-81
SUPERSTRUCTURE DETAILS	M-93-122	5-11-81
SUPERSTRUCTURE DETAILS	M-93-123	2-10-82
SUPERSTRUCTURE DETAILS	M-93-124	5-11-81
ABUTMENT NO. 1	M-93-125	12-18-81
ABUTMENT NO. 1 DETAILS	M-93-126	12-18-81
ABUTMENT NO. 1 DETAILS	M-93-127	12-18-81
ABUTMENT NO. 2	M-93-128	5-11-81
ABUTMENT NO. 2 DETAILS	M-93-129	5-11-81
BENT DETAILS	M-93-130	2-10-82
BENT DETAILS	M-93-131	12-18-81
BILL OF STEEL	M-93-132	10-4-82
BILL OF STEEL	M-93-133	12-18-81
BILL OF STEEL	M-93-133A	12-18-81

STANDARD DRAWINGS	DWG. NO.	LAST REV. DATE
STD. PILE DETAILS	H-5-111	11-27-75
BRIDGE RAILING CONCRETE PARAPET WITH STRUCTURAL TUBING	K-38-162	11-82
MISCELLANEOUS ABUTMENT AND DRAINAGE DETAILS	K-85-150	1-09-75
STD. DWG. REINFORCED CONCRETE PAVEMENT @ BRIDGE ENDS	K-86-144	11-8-79
BRIDGE RAILING CONCRETE PARAPET	M-28-1	1-28-76
STD. REINFORCING BAR SUPPORT	K-80-14	8-27-76
TENN. STD. PRECAST, PRESTRESSED BRIDGE DECK PANELS	K-80-15A	
LIGHT STANDARD SUPPORT DETAILS	M-3-149	11-20-75

SPECIAL PROVISIONS	DWG. NO.	LAST REV. DATE
REGARDING SECTION 604 - CONCRETE STRUCTURE	130	12-17-79
REGARDING SECTION 606 - PILING	131	10-01-75
REGARDING SECTION 615 - PRECAST - PRESTRESSED CONCRETE BRIDGE MEMBERS	555	7-01-77
REGARDING EPOXY-COATED REINFORCING STEEL	471	2-15-74
REGARDING APPROVAL OF SHOP DRAWINGS	420	7-02-79
REGARDING PERMANENT STEEL BRIDGE DECK FORMS	450	9-19-77
REGARDING HAULING OVER STRUCTURES	570	7-10-68
REGARDING SUBSECTION 908.13 - ELASTOMERIC BEARING PADS	210	12-2-76
REGARDING SECTION 606 - STEEL PILING	133	2-2-79



44'-0" ROADWAY WITH PARAPET AND PEDESTRIAN RAIL

STATE OF TENNESSEE
 DEPARTMENT OF TRANSPORTATION
 BUREAU OF HIGHWAYS
 LAYOUT OF BRIDGE NO. 5
 FOSTER AVENUE OVER INTERSTATE-440
 STATION 447+66.48
 DAVIDSON COUNTY
 1981

DESIGNED BY P. HENDERSON DATE 2-81
 DRAWN BY K. COLEMAN DATE 2-81
 SUPERVISED BY J. FIELDS DATE 2-81
 CHECKED BY R. HENDERSON DATE 5-81

CORRECT *Colleen L. Sorell*
 ENGINEER OF STRUCTURES
 APPROVED *Louis Evans*
 DIRECTOR OF HIGHWAYS

M-93-116

MICROFILMED

CLASS 'A' GRADING 'D' = 519 CY

PROJECT NO.	YEAR	SHEET NO.	
1440-4(44) 212	1981	78	
REVISIONS			
NO.	DATE	BY	BRIEF DESCRIPTION
1	6-11-81	AMS	GENERAL REVISIONS
2	12-18-81	AMS	GENERAL REVISIONS
3	2-10-82	AMS	EPOXY REIN. STEEL QUANTITY
4	1-25-83	R.M.D.	ADDED STRUC. LIGHT. NOTE & NO.
5	3-83	J.H.P.	General Revision
6	10-14-83	GNK	EPOXY REIN. STEEL QUANTITY

GENERAL NOTES

SPECIFICATIONS: STANDARD ROAD AND BRIDGE SPECIFICATIONS OF THE TENNESSEE DEPARTMENT OF HIGHWAYS. (1968 EDITION)

LOADING: (HS-20-44)

DESIGN SPECIFICATIONS: AASHTO 1977 EDITION WITH ADDENDA.

CONCRETE: TO BE CLASS 'A' $f'c = 3,000$ PSI. SEE SPECIAL PROVISION NO. 130.

BRIDGE DECK FORMS: BRIDGE DECK FORMS FOR CONCRETE DECKS SHALL BE CONSTRUCTED USING EITHER REMOVAL 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. SEE SPECIAL PROVISION NO. 450 AND STANDARD DWG. K-80-15A. THE CONTRACTOR SHALL TAKE STEPS TO ASSURE THE STABILITY OF THE EXTERIOR GIRDER AGAINST TWISTING OR OVERTURNING DURING SLAB POURING OPERATIONS.

REINFORCING STEEL: TO BE ASTM A615 GRADE 60. STANDARD CP31 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 SO MARKED, DENOTES EPOXY COATED REINFORCEMENT. SEE SPECIAL PROVISION 471.

SPECIAL NOTE - FOOTING ON ROCK: 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 COLUMNS OR ABUTMENT WALLS SHALL BE ORDERED UNTIL FINAL FOOTING ELEVATIONS HAVE BEEN DETERMINED.

BRIDGE RAIL SYSTEM: BUILD PARAPETS ACCORDING TO STANDARD DRAWINGS NO. M-28-1 & NO. K-38-161 EXCEPT AS NOTED ON DWG. NO. M-93-123

PILES: TO BE HP 10 x 42 DRIVEN TO REFUSAL ON ROCK OR A MINIMUM BEARING OF 50 TONS FOR THE ABUTMENTS.

PRECAST, PRESTRESSED BRIDGE MEMBERS: SEE SPECIAL PROVISION NO. 535.

ELASTOMERIC BEARING PAD: SEE SPECIAL PROVISION NO. 210.

LINSEED OIL PROTECTIVE TREATMENT: SURFACES RECEIVING DECORATIVE OR CLASS 2 FINISH SHALL NOT RECEIVE A LINSEED OIL TREATMENT. SEE SPECIAL PROVISION NO. 130, AND SURFACE FINISH DETAIL, THIS SHEET.

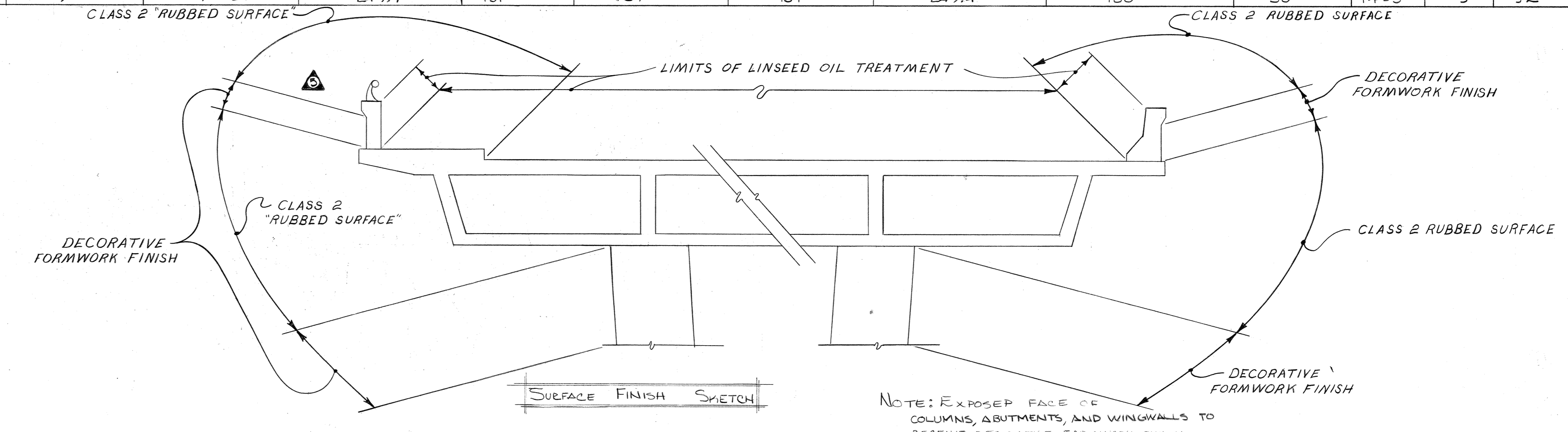
CONCRETE FINISHES: Portions of the bridge surface designated to receive a Class 2 "Rubbed Finish" shall be finished according to Subsection 604.22 of the Standard Specifications. Portions of the bridge surface designated to receive a Decorative Form Finish shall be formed using a Form Liner similar to Burke Formliner B6 308, Concrete Harp or equal. SLOPE PAVING FINISH TO BE A STRIATED (PAVED) FINISH WITH THE TINES AT APPROXIMATELY THE SAME WIDTH AND SPACING TO DUPLICATE TO DECORATIVE FORMWORK FINISH. STRIATIONS SHALL BE ORIENTED WITH THE LONG AXIS UP AND DOWN THE SLOPE PAVING. After stripping Form Liners, the Decorative Form Finished area shall be given a "Class 1" Ordinary Finish according to Subsection 604.22 of the Standard Specifications. The contractor shall submit to the engineer for approval, a sample casting using the Formliner to be furnished. Cost of all concrete finishes to be included in the price bid for Class 'A' concrete (bridges), Concrete Parapet (M-28-1 & K-38-161), and Slope Paving.

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-93-126	1 1/4"	128.3	59.4

ESTIMATED QUANTITIES

ITEMS	714-01.04	604-01.07	204-02.01	204-04.01	204-05	604-03.01	604-03.02	604-02.03	620-14	606-22.05	606-32.03	606-42.03	616-08	710-10	710-11	604-03.03	908-21.05	920-01.11	714-01.10
STRUCTURE LIGHTING (LS) BRIDGE NO. 5																			
CLASS 'A' CONCRETE FOUNDATION LEVELING (CY)																			
DRY EXCAVATION (BRIDGES) (CY)																			
ROCK EXCAVATION (BRIDGES) (CY)																			
ROCK DRILLING (BRIDGES) (LF)																			
CLASS 'A' CONCRETE (BRIDGES) (CY)						628.3	116,079	178,262											
STEEL BAR REINFORCEMENT (BRIDGES) (LBS)						274.3	54,902												
EPOXY COATED REINFORCING STEEL (LBS)						147.1	24,862												
CONCRETE PARAPET W/ STRUCTURAL TIEING (K-38-162) (LF)						50.3	4,629	8,962											
STEEL PILES (10") (DRIVING) (LF)						50.4		14,214		60									
STEEL PILES (10") (FURNISH DOMESTIC STEEL) (LF)						50.4		14,114		60									
STEEL PILES (10") (FURNISH FOREIGN STEEL) (LF)										60									
CONCRETE PARAPET (M-28-1) (LF)													249.4						
6" PERFORATED C.M. PIPE (18 GA.) W/POPOUS BACKFILL (LF)														66.0	15				
6" C.M. PIPE UNDERDRAINS (18 GA.) (LF)																			
LINSEED OIL TREATMENT (S.Y.)																			
BEARINGS M-93-126 E.A.																			
ROADWAY EXPANSION DEVICE L.F.																			
STRUCTURE LIGHTING (BRIDGE NO. 5) (LS)																			
TOTALS	L.S.	20.0	839.6	433.6	54	1,200.8	200,472	215,552	249.4	137	137	137	249.4	180	30	1453	5	52	LUMP SUM



NOTES:

- ① EXCAVATION BASED ON LOWER ROAD PROFILE.
- ② NOTE: COST OF POLYETHYLENE SHEETING AND ALL MISCELLANEOUS ITEMS NECESSARY FOR INSTALLATION TO BE INCLUDED IN COST OF PERFORATED C.M. PIPE.
- ③ NOTE: THE COST OF 16 THREADED STEEL INSERTS AND 16 7/8" x 4" HEX HEAD BOLTS, (A'SOT), TO BE INCLUDED IN BRIDGE ITEMS BID ON.
- ④ NOTE: ALL REINFORCING STEEL IN THE TRAFFIC FACE OF PARAPETS SHALL BE EPOXY COATED. COST TO BE INCLUDED IN THE PRICE BID FOR ITEM 616-08 AND 616-08.02.
- ⑤ NOTE: COST OF BRIDGE RAIL ENDPOST IS TO BE INCLUDED IN THE COST OF THE BRIDGE RAIL SYSTEM.
- ⑥ NOTE: ACCEPTABLE EXPANSION DEVICES ARE AS 200 BY ACME; OR FLEX 25 BY OLD-NORTH MFG. CO.; OR WARD-MAUER SA-200. TOTAL REQUIRED MOVEMENT IS 1 1/4".
- ⑦ NOTE: THE COST OF BITUMINOUS FIBERBOARD, AND ALL MISCELLANEOUS JOINT MATERIAL TO BE INCLUDED IN BRIDGE ITEMS BID ON.
- ⑧ NOTE: QUANTITY INCLUDES 3/4" L.F. OF 2" CONDUIT WITH PULL WIRES, FOUR (4) PULL BOXES, FOUR (4) ANCHOR BOLTS, AND ALL INCIDENTAL MATERIAL AND LABOR REQUIRED TO PROVIDE CONDUIT AND SUPPORT. FUTURE LIGHTING SUPPORT LOCATION TO BE SUPPLIED BY NASHVILLE ELECTRIC SERVICE.
- ⑨ NOTE: LUMP SUM FOR STRUCTURE LIGHTING, ITEM NO. 714-01.10 INCLUDES 430 FT. 1" CONDUIT WITH PULL WIRES, 8 JUNCTION BOXES, AND ALL NECESSARY MATERIALS FOR INSTALLATION OF STRUCTURE LIGHTING.

FINISHING CONCRETE SURFACES: CONCRETE FINISHING SHALL BE IN ACCORDANCE WITH SECTION 604.22 OF THE TENNESSEE STANDARD SPECIFICATION EXCEPT AS MODIFIED BY SPECIAL PROVISION NO. 130. See note above regarding Concrete Finishes.

NOTE: EXPOSED FACE OF COLUMNS, ABUTMENTS, AND WINGWALLS TO RECEIVE DECORATIVE FORMWORK FINISH.

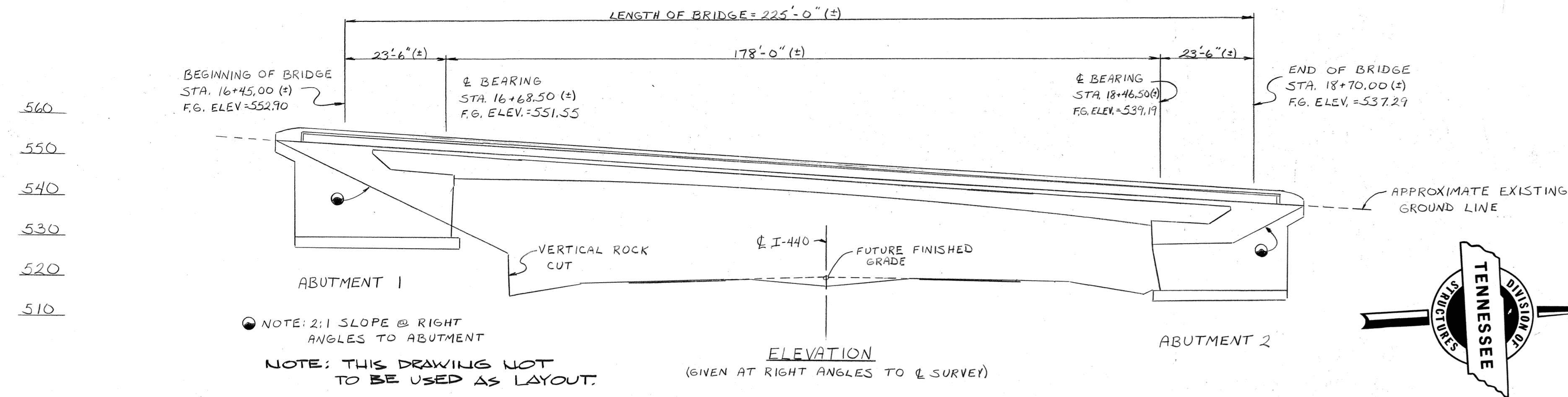
DESIGNED BY P. HENDERSON DATE 12-80
 DRAWN BY H. COLEMAN DATE 2-81
 SUPERVISED BY S. FIELDS DATE 2-81
 CHECKED BY R. HENDERSON DATE 5-81

STATE OF TENNESSEE
 DEPARTMENT OF TRANSPORTATION
 BUREAU OF HIGHWAYS
 BRIDGE NO. 5
 GENERAL NOTES AND ESTIMATED QUANTITIES
 FOSTER AVENUE OVER INTERSTATE -440
 STATION 447+66.48
 DAVIDSON COUNTY
 1981

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

M-93-117

PROJECT NO.	YEAR	SHEET NO.	
EA440-4(44)212	1981	79	
REVISIONS			
NO.	DATE	BY	BRIEF DESCRIPTION

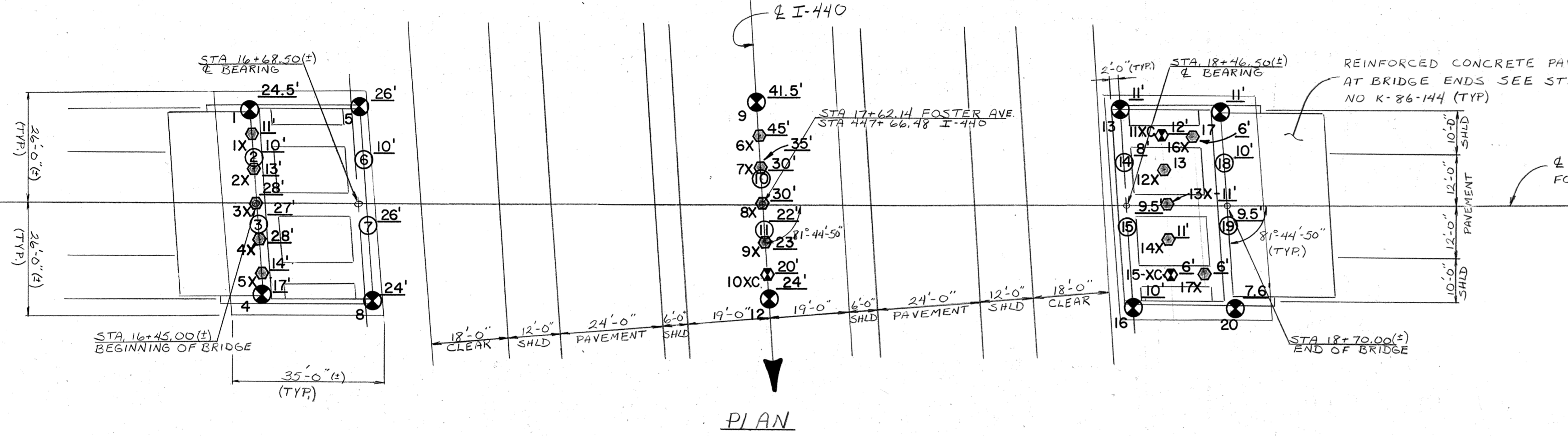


NOTE: 2:1 SLOPE @ RIGHT ANGLES TO ABUTMENT
NOTE: THIS DRAWING NOT TO BE USED AS LAYOUT.

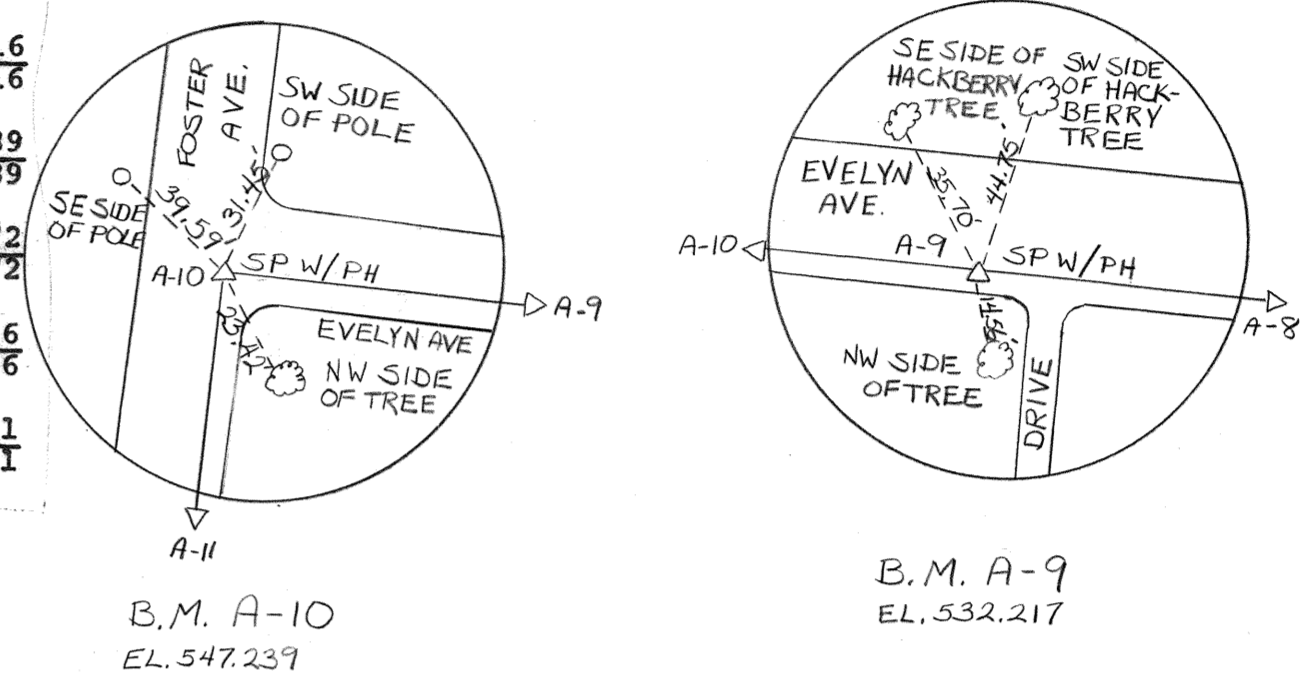
ELEVATION
(GIVEN AT RIGHT ANGLES TO ϕ SURVEY)

Ground-Rock Elevations

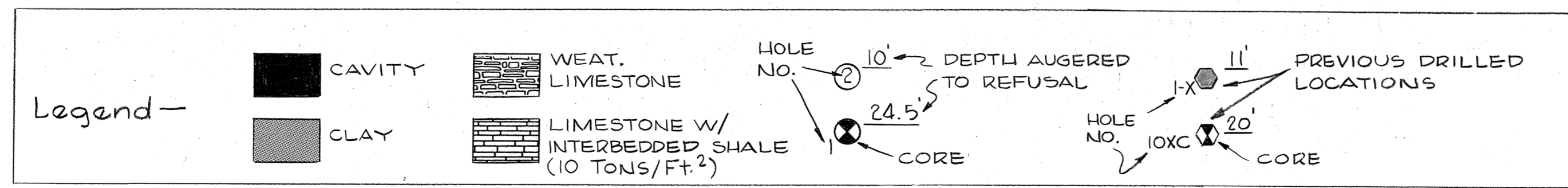
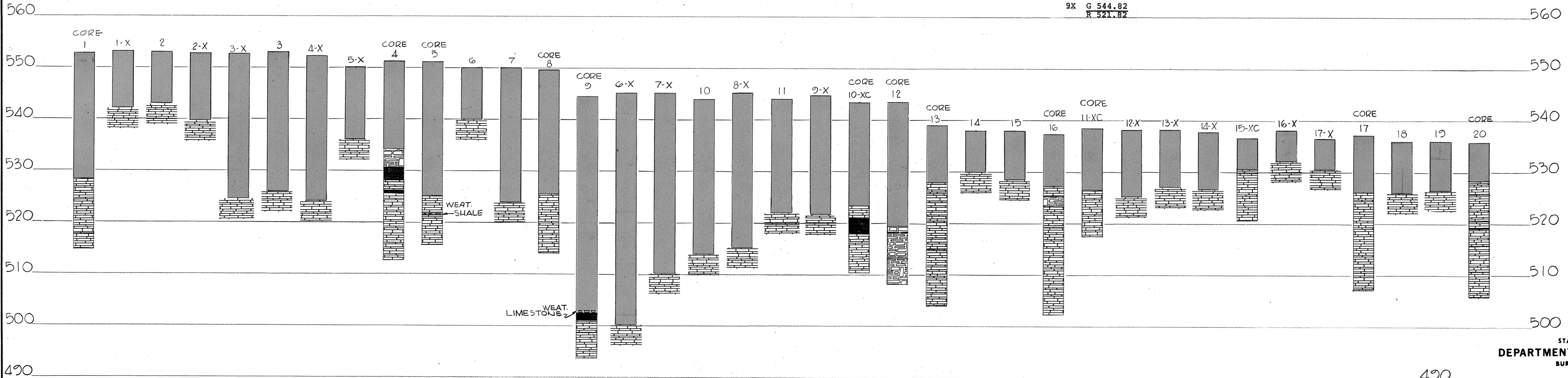
- | | |
|-------------------------|---------------------------|
| 1. G 552.8
R 528.3 | 10XC G 543.47
R 523.47 |
| 1X G 553.16
R 542.16 | 12. G 543.6
R 519.6 |
| 2. G 553.0
R 543.0 | 13. G 539.0
R 528.00 |
| 2X G 552.8
R 539.8 | 14. G 538.0
R 530.0 |
| 3X G 552.75
R 524.75 | 15. G 538.0
R 528.5 |
| 3. G 553.0
R 526.0 | 16. G 537.4
R 527.4 |
| 4X G 552.3
R 524.3 | 11XC G 538.45
R 526.45 |
| 5X G 550.66
R 536.66 | 12X G 538.23
R 525.23 |
| 4. G 551.2
R 534.2 | 13X G 538.16
R 527.16 |
| 5. G 551.1
R 525.1 | 14X G 537.89
R 526.89 |
| 6. G 550.0
R 540.0 | 15XC G 536.72
R 530.72 |
| 7. G 550.0
R 524.0 | 16X G 538.16
R 532.16 |
| 8. G 549.7
R 525.7 | 17X G 536.41
R 530.41 |
| 9. G 544.5
R 503.0 | |
| 6X G 545.28
R 500.28 | |
| 7X G 545.19
R 510.19 | |
| 10 G 544.0
R 514.0 | |
| 8X G 545.20
R 515.20 | |
| 11 G 544.0
R 522.0 | |
| 9X G 544.82
R 521.82 | |



PLAN



REQUIRED:
1) APPROXIMATE EXISTING GROUND AND ROCK LINE.
2) SUFFICIENT GROUND ROCK AND CORING INFORMATION FOR BRIDGE FOUNDATIONS.



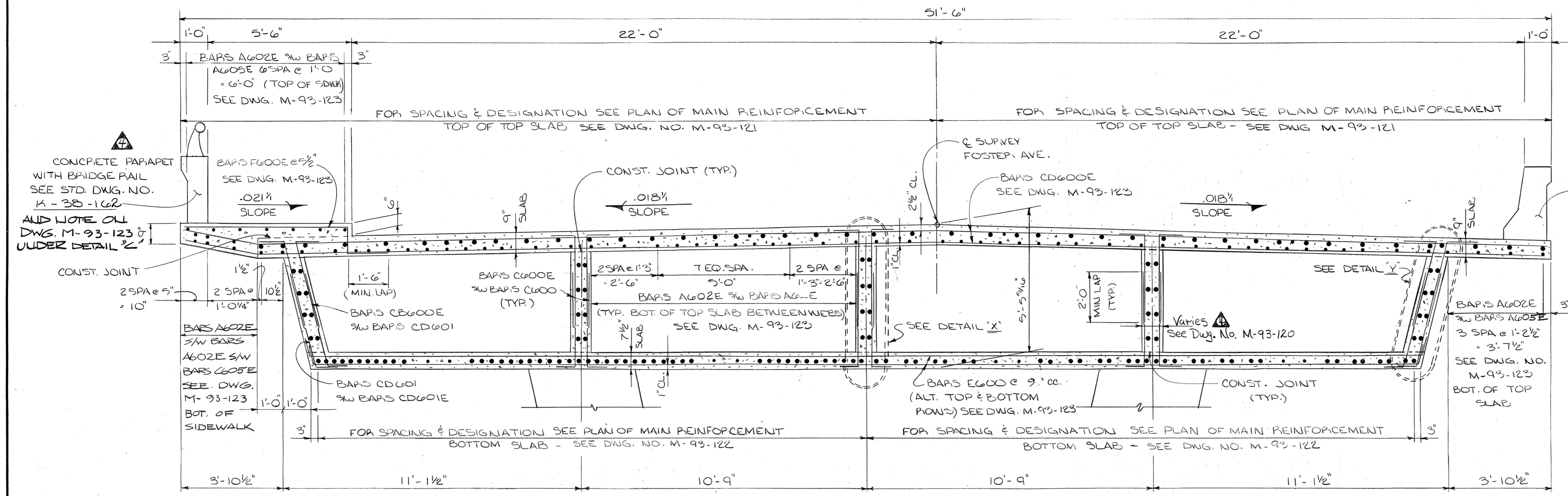
STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF HIGHWAYS
FOUNDATION DATA
FOSTER AVE. OVER I-440
STA. 447+66.48
DAVIDSON COUNTY
1980

DESIGNED BY RICK HENDERSON DATE 10-80
DRAWN BY RICK HENDERSON DATE 10-80
SUPERVISED BY DATE
CHECKED BY A.M. SMITH DATE 11-80

CORRECT *Colleen L. Howell*
ENGINEER OF STRUCTURES
APPROVED *Louis Evans*
DIRECTOR OF HIGHWAYS

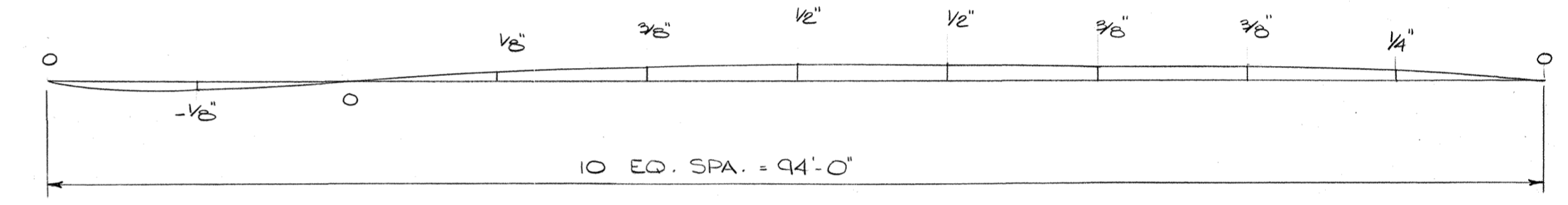
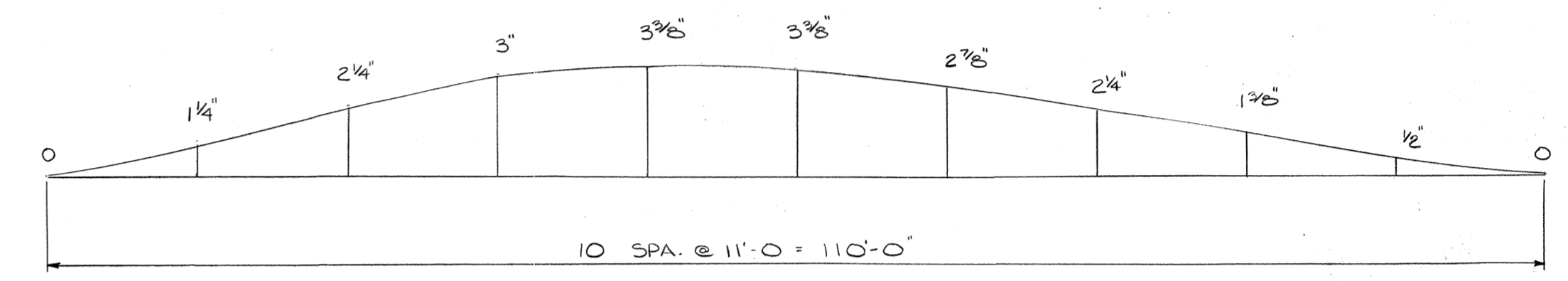
PROJECT NO.	YEAR	SHEET NO.
I-440-4(44)212	1981	80

REVISIONS			
NO.	DATE	BY	BRIEF DESCRIPTION
1	5-11-81	R.H.	GENERAL REVISIONS
2	2-10-82	D.M.S.	EPXY REIN. STEEL QUANTITY
3	1-25-83	R.M.D.	LIGHTING DETAILS
4	5-3-83	J.A.P.	Web Details
5	10-14-83	C.N.K.	EPoxy REIN. STEEL QUANTITY



HALF-SECTION
SPAN 1

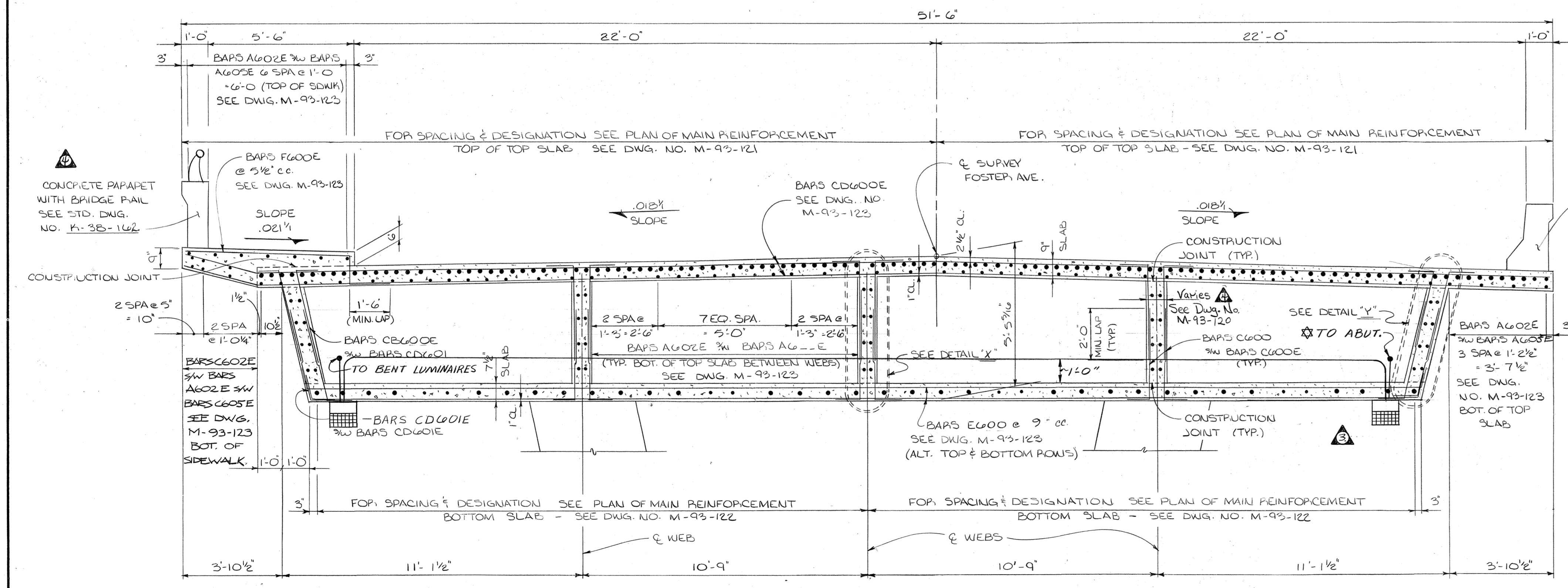
— TYPICAL CROSS-SECTION —
NEAR MID-SPAN
(LOOKING FORWARD ON SURVEY)



— DEAD-LOAD CORRECTION CURVE —

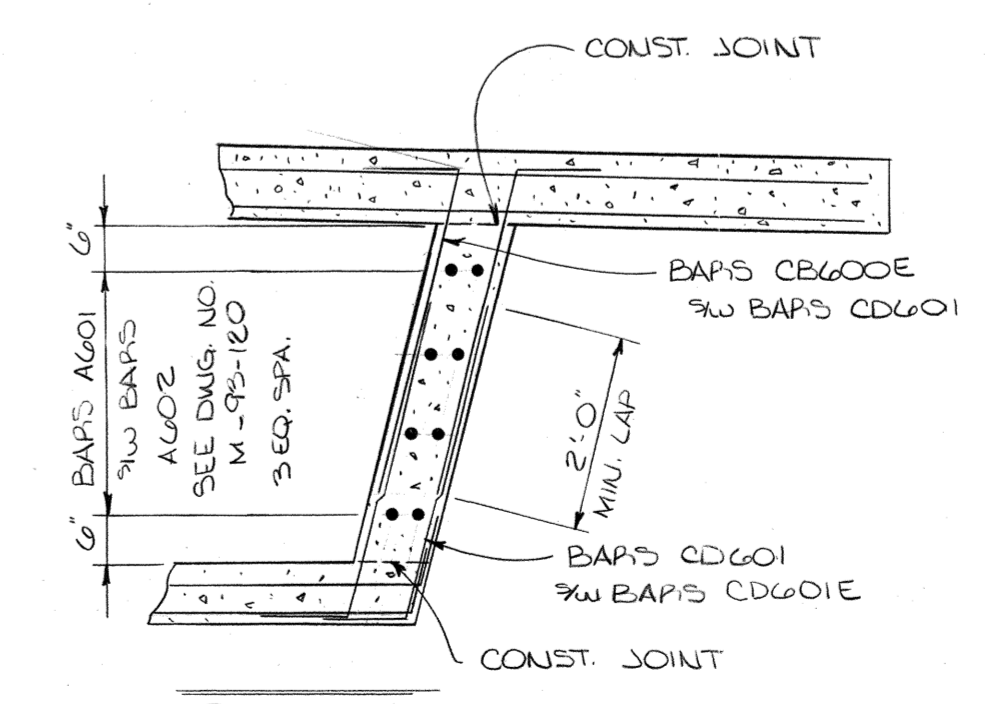
DEAD-LOAD CORRECTION CURVE NOTE:
THIS CURVE IS FOR DEAD LOAD CAMBER ONLY AND SHOULD BE INCREASED BY THE AMOUNT OF ANTICIPATED TAKE UP IN THE FALSEWORK.

NOTE: IF THE CONTRACTOR ELECTS TO USE REMAIN IN PLACE FORMS, DETAILS FOR PROVIDING ACCESS TO ALL CELLS OF THE STRUCTURE SHALL BE SUBMITTED TO THE ENGINEER OF STRUCTURES. SEE SPECIAL PROVISION NO. 450.



— TYPICAL CROSS-SECTION —
NEAR BENT
(LOOKING FORWARD ON SURVEY)

★ DENOTES: SIMILAR AT BOTH ABUTMENTS.



ESTIMATED QUANTITIES			
ITEM	CLASS 'A' CONCRETE CY.	REINFORCING STEEL LBS.	EPXY STEEL LBS. Ⓢ
SUPERSTRUCTURE	628.3	110,079	178,262

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF HIGHWAYS

SUPERSTRUCTURE
FOSTER AVENUE
OVER
INTERSTATE - 440
STATION 447+66.48
DAVIDSON COUNTY
1981

CORRECT *Clifton L. Fowell*
ENGINEER OF STRUCTURES

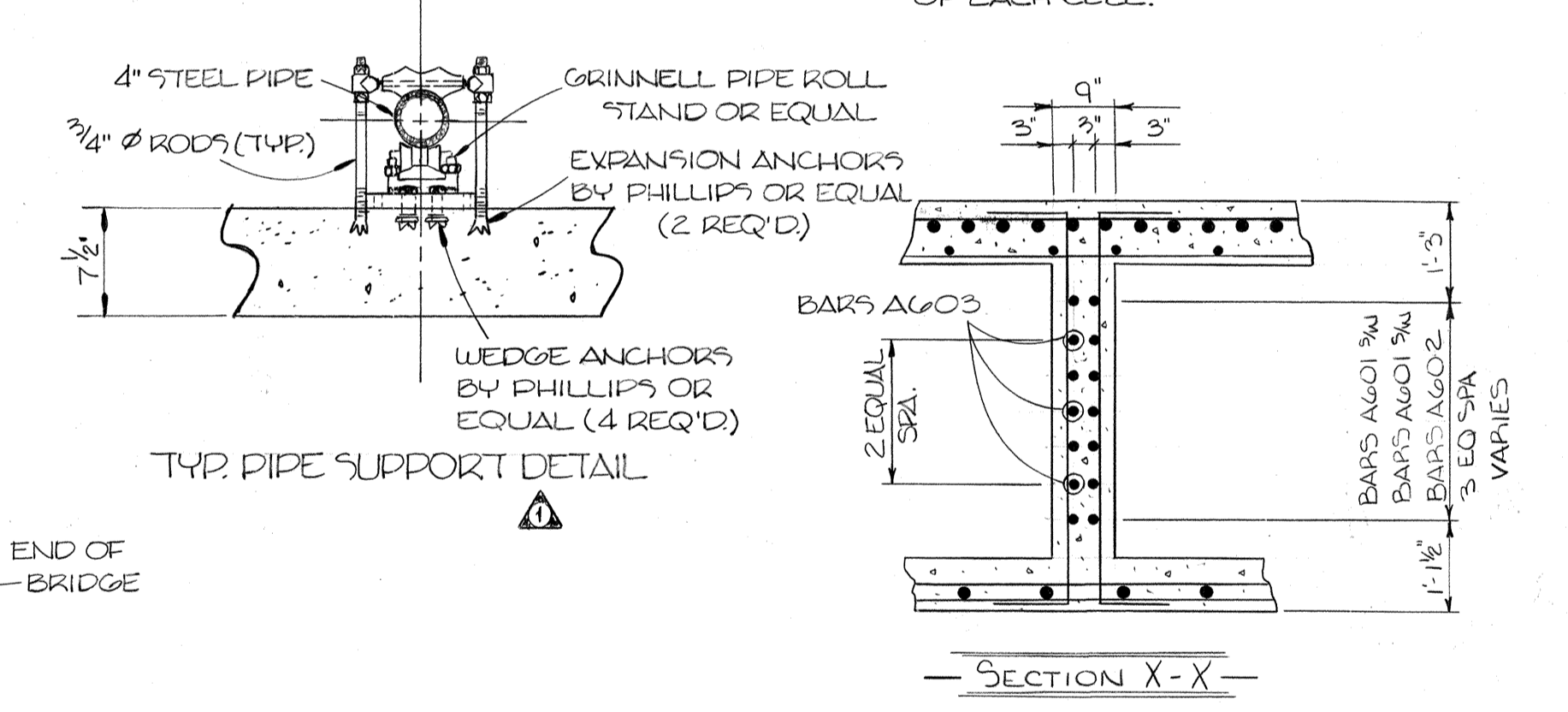
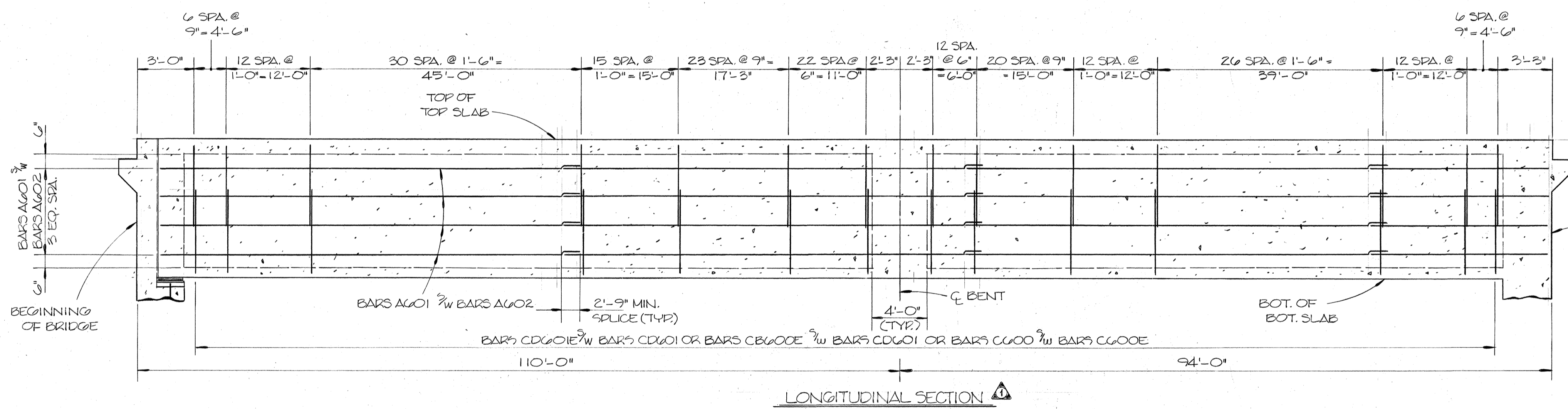
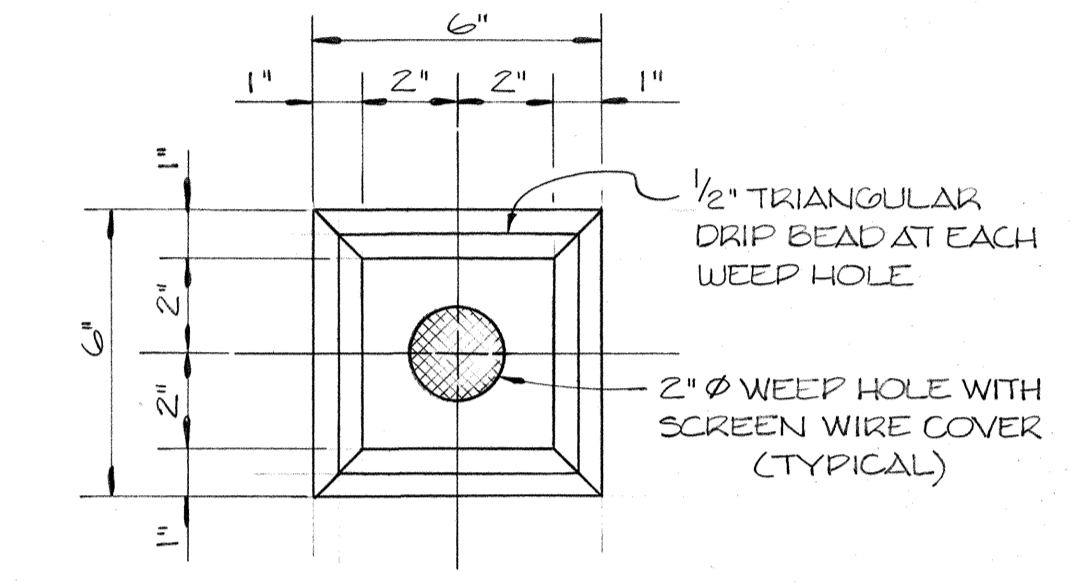
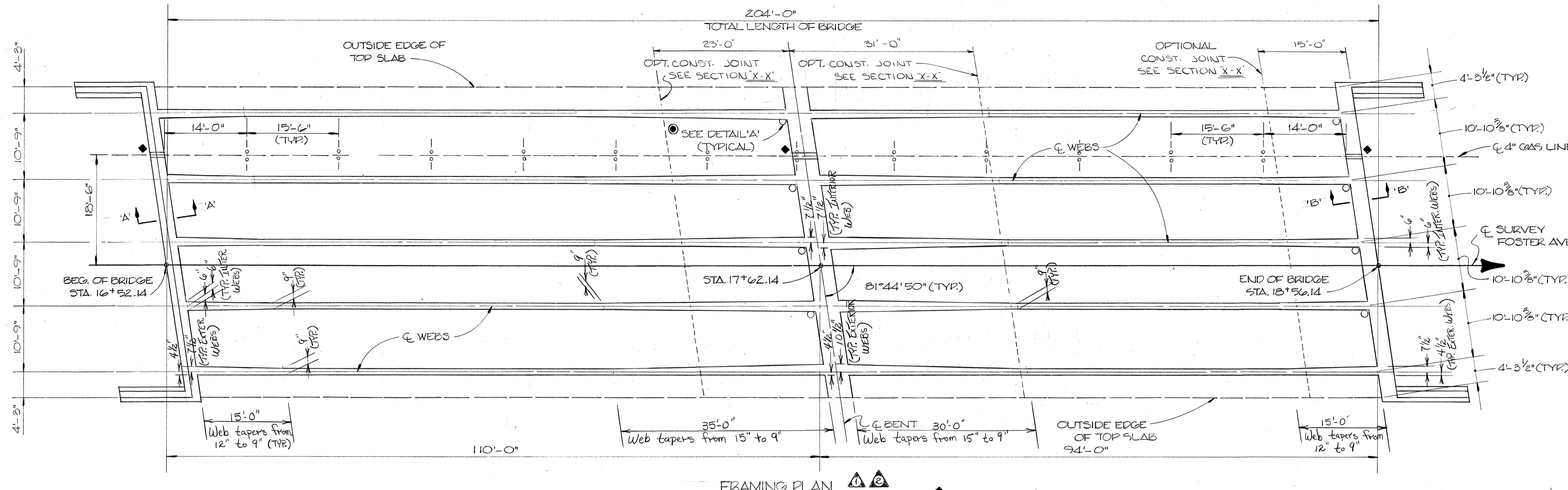
APPROVED *Lewis Grant*
DIRECTOR OF HIGHWAYS

MICROFILMED

DESIGNED BY P. HENDERSON DATE 2-81
DRAWN BY K. COLEMAN DATE 2-81
SUPERVISED BY J. FIELDS DATE 2-81
CHECKED BY R. HENDERSON DATE 5-81

PROJECT NO.	YEAR	SHEET NO.
I-440-4(44)212	1981	81

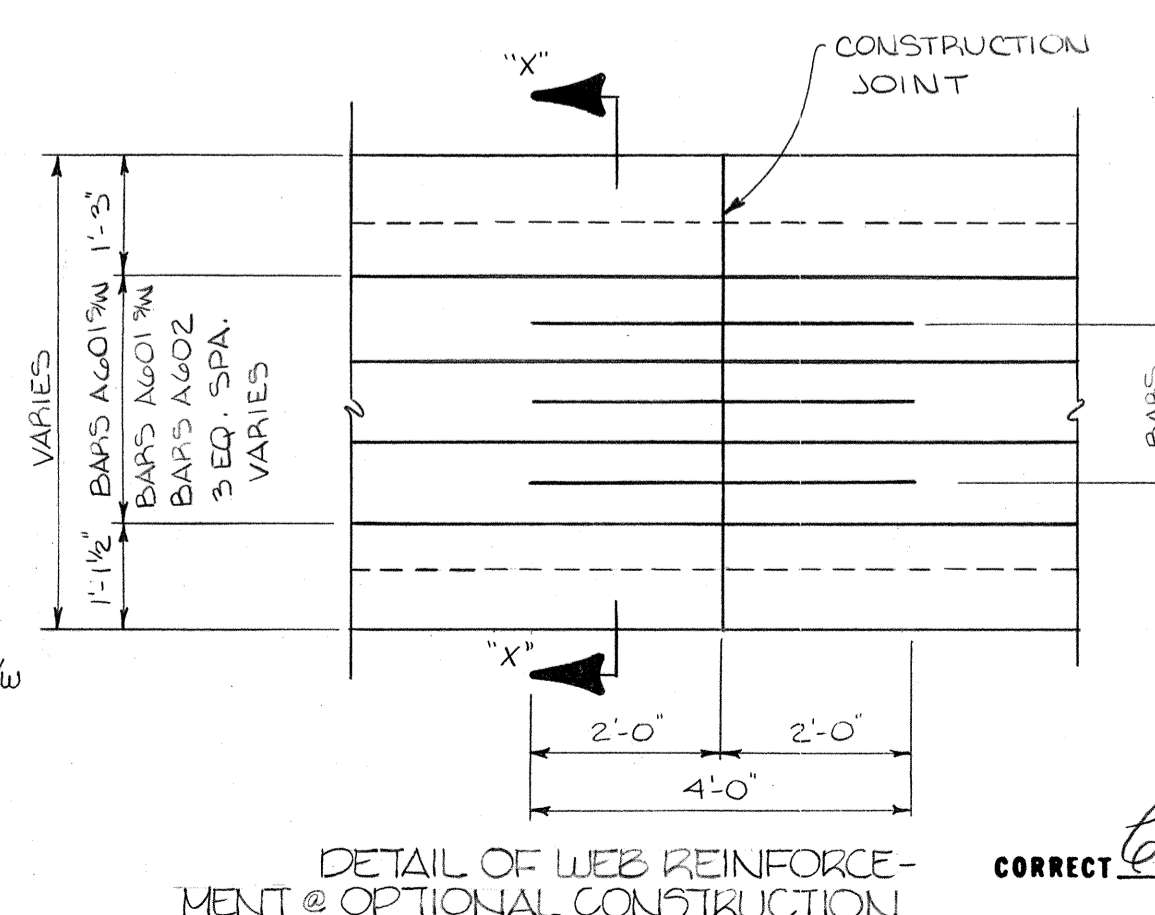
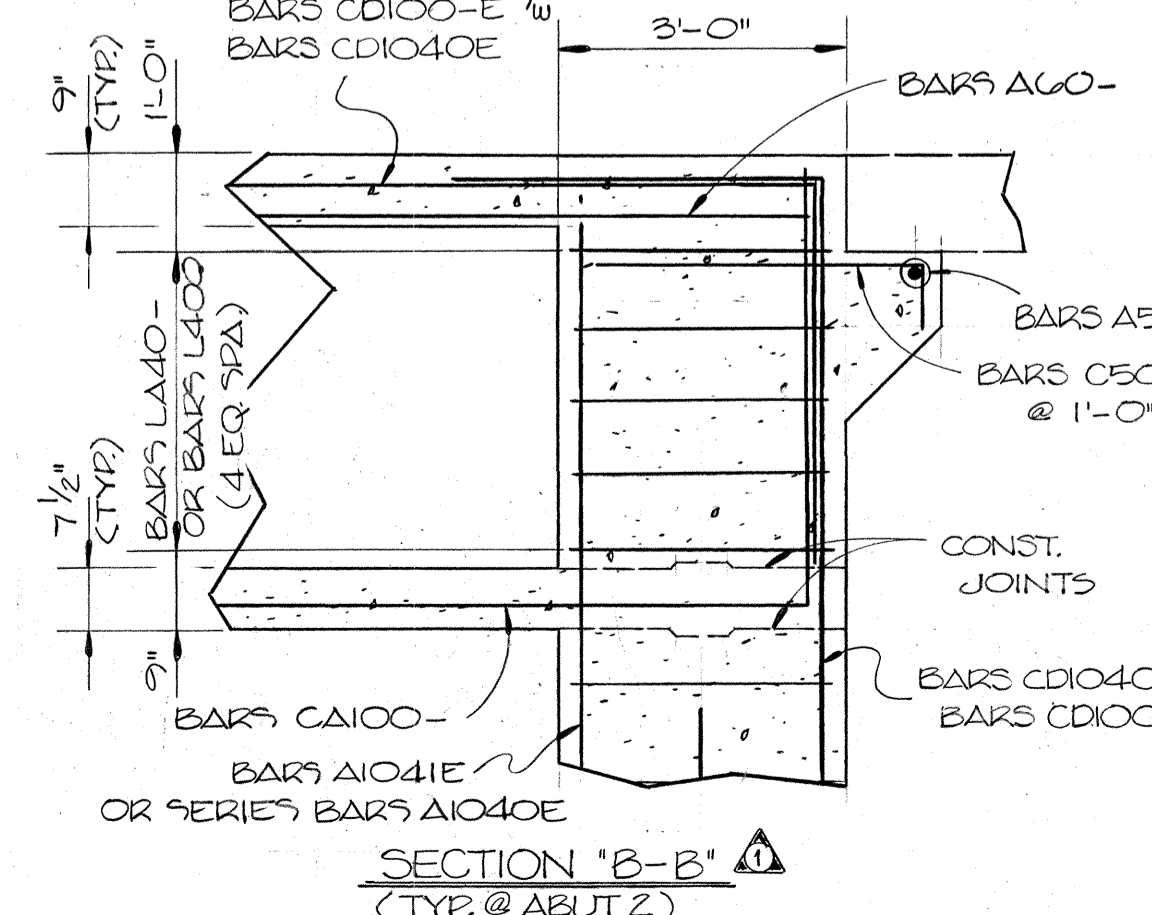
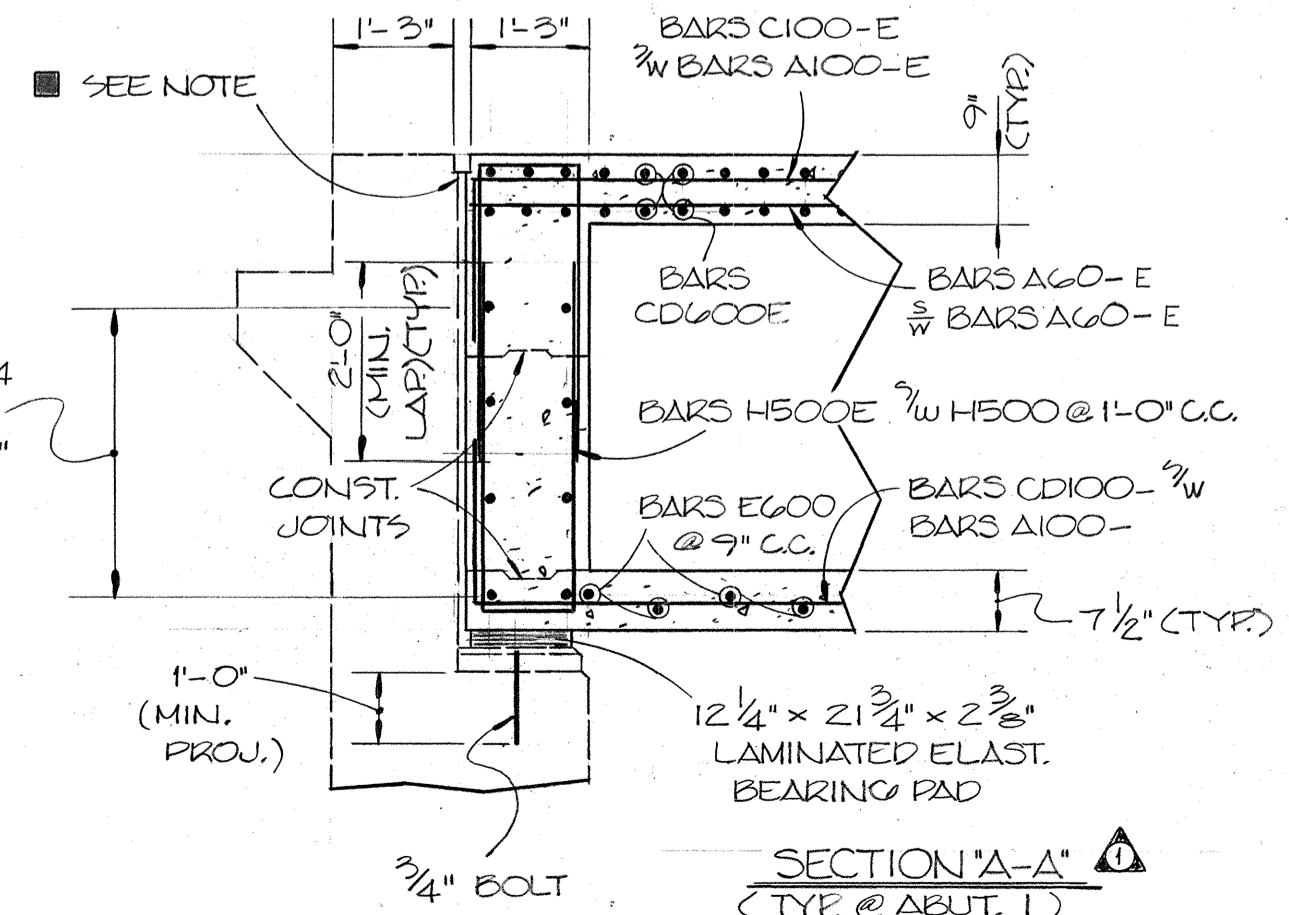
REVISIONS			
NO.	DATE	BY	BRIEF DESCRIPTION
1	5-11-81	AMS	GENERAL REVISIONS
2	5-3-83	JHP	Web Thickness



REINFORCED CONCRETE HOLLOW BOX STRUCTURE

PLANS NOTE: FORMS AND SUPPORTS FOR THE ENTIRE BOTTOM SLAB SHALL BE IN PLACE PRIOR TO THE PLACEMENT OF SUPERSTRUCTURE CONCRETE. CONCRETE FOR THE TOP & BOTTOM SLAB AND WALLS MAY BE PLACED IN ANY SEQUENCE, HOWEVER, CONSTRUCTION JOINTS WILL BE PERMITTED AT DESIGNATED LOCATIONS ONLY. NO TOP SLAB CONCRETE MAY BE PLACED UNTIL ALL WALLS HAVE BEEN COMPLETED.

NOTE: TOTAL REQUIRED MOVEMENT IS 1 1/2" @ 60° F. ACCEPTABLE EXPANSION DEVICES ARE: AS200 BY ACME, ON-FLEX 25 BY OLD NORTH MANUFACTURING CO., OR SA-200 BY WABO-MAUREK.



STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF HIGHWAYS

SUPERSTRUCTURE DETAILS
FOSTER AVENUE OVER
INTERSTATE 440
STATION 447+06.43
DAVIDSON COUNTY
1981

CORRECT *Clifton L. Sewell*
ENGINEER OF STRUCTURES

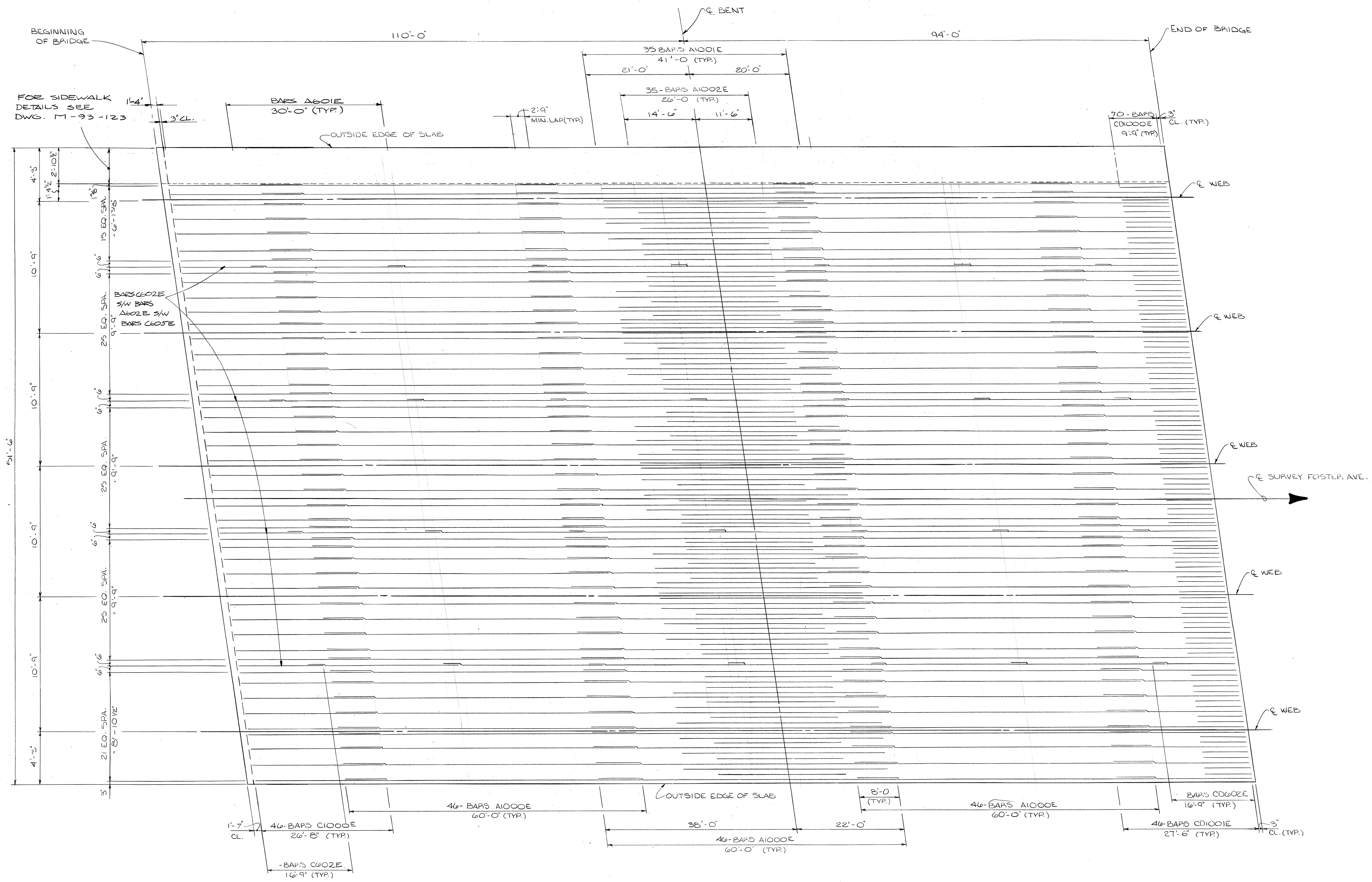
APPROVED *Lewis Evans*
DIRECTOR OF HIGHWAYS

MICROFILMED

DESIGNED BY R. HENDERSON DATE 2/81
DRAWN BY DONNA BRILEY & K.C. DATE 2/81
SUPERVISED BY FIELDS & SMITH DATE 2/81
CHECKED BY R. HENDERSON DATE 3/81

PROJECT NO.	YEAR	SHEET NO.
I-440-444)212	1981	82

REVISIONS			
NO.	DATE	BY	BRIEF DESCRIPTION
1	5-1-81	R.H.	GENERAL REVISIONS



NOTE: NO. 10 BARS SPLICE 8'-0".
NO. 6 BARS SPLICE 2'-0".

TOP OF TOP SLAB.

PLAN OF MAIN REINFORCEMENT

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF HIGHWAYS
SUPERSTRUCTURE DETAILS
FOSTER AVENUE OVER
INTERSTATE -440
STATION 447 + 66.48
DAVIDSON COUNTY
1981

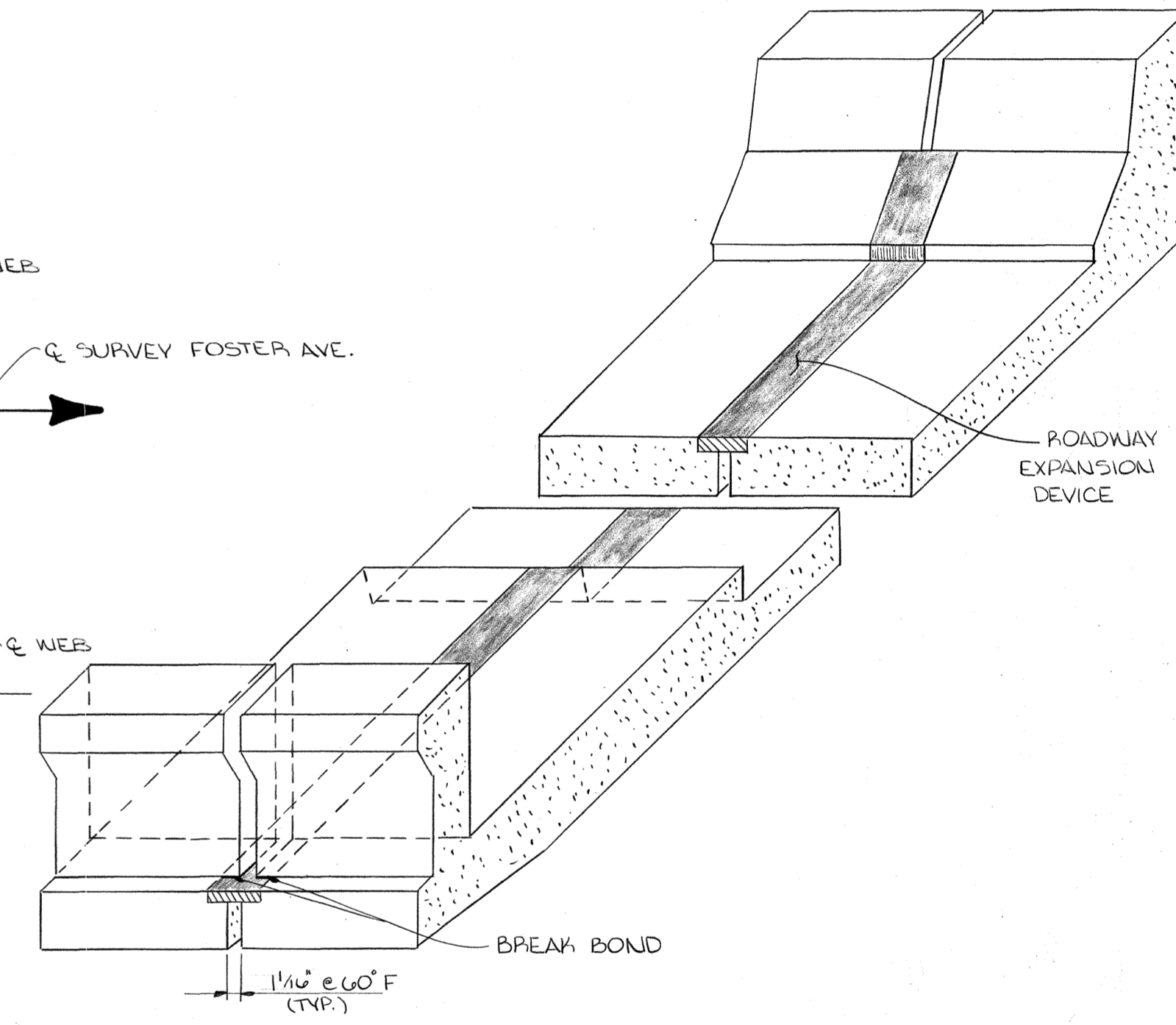
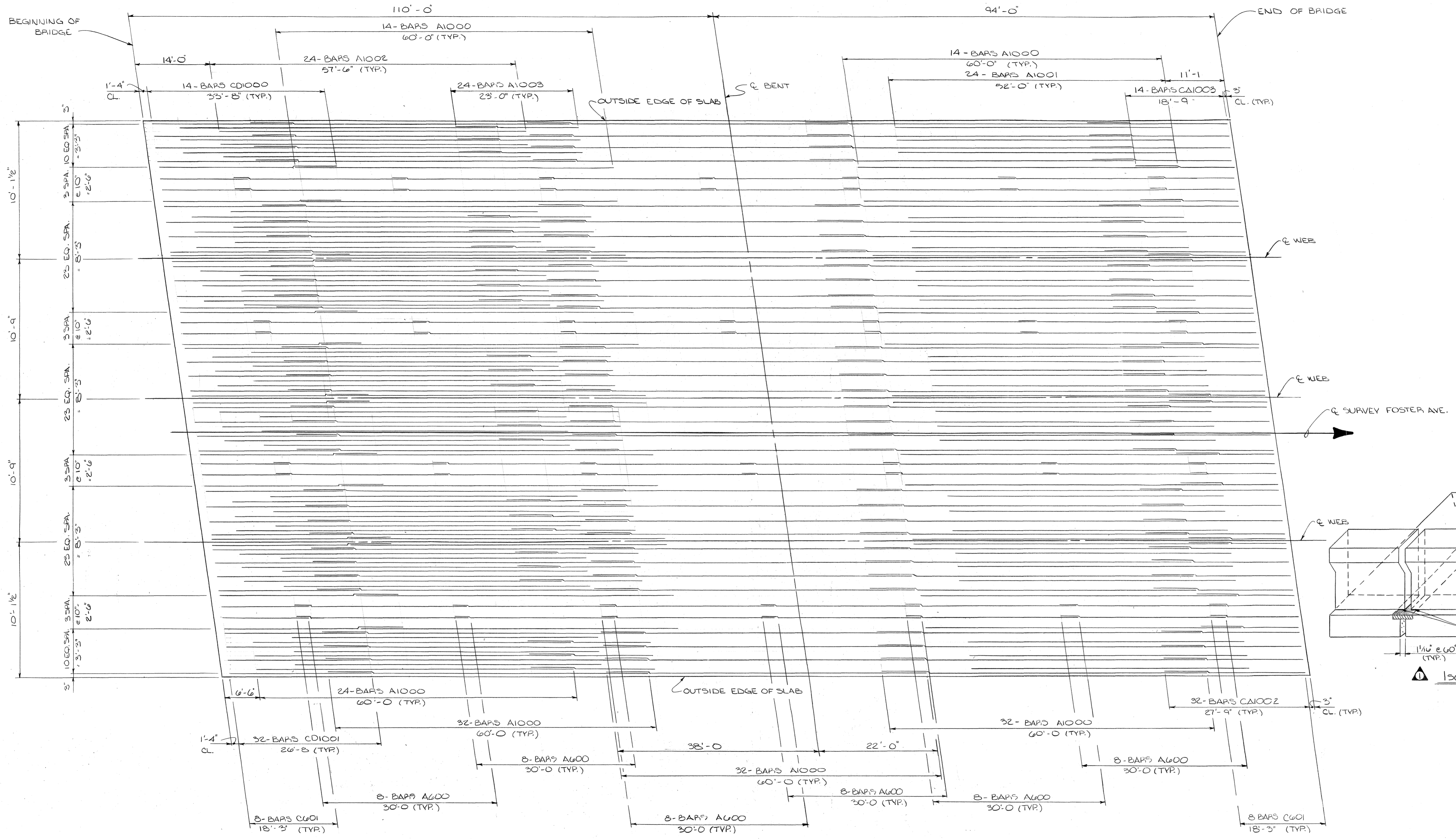
CORRECT
ENGINEER OF STRUCTURES
APPROVED
DIRECTOR OF HIGHWAYS

DESIGNED BY RICK HENDERSON DATE 2-81
DRAWN BY H. COLEMAN DATE 2-81
SUPERVISED BY J. FIELDS DATE 2-81
CHECKED BY RICK HENDERSON DATE 5-81

MICROFILMED

PROJECT NO.	YEAR	SHEET NO.
I-440-4(44)212	1981	83

REVISIONS			
NO.	DATE	BY	BRIEF DESCRIPTION
1	5-11-81	PH	GEN. REV.



NOTE: SPLICE NO. 10 BARS - 8'-0"
SPLICE NO. 6 BARS - 2'-0"

△ BOTTOM SLAB
PLAN OF MAIN REINFORCEMENT

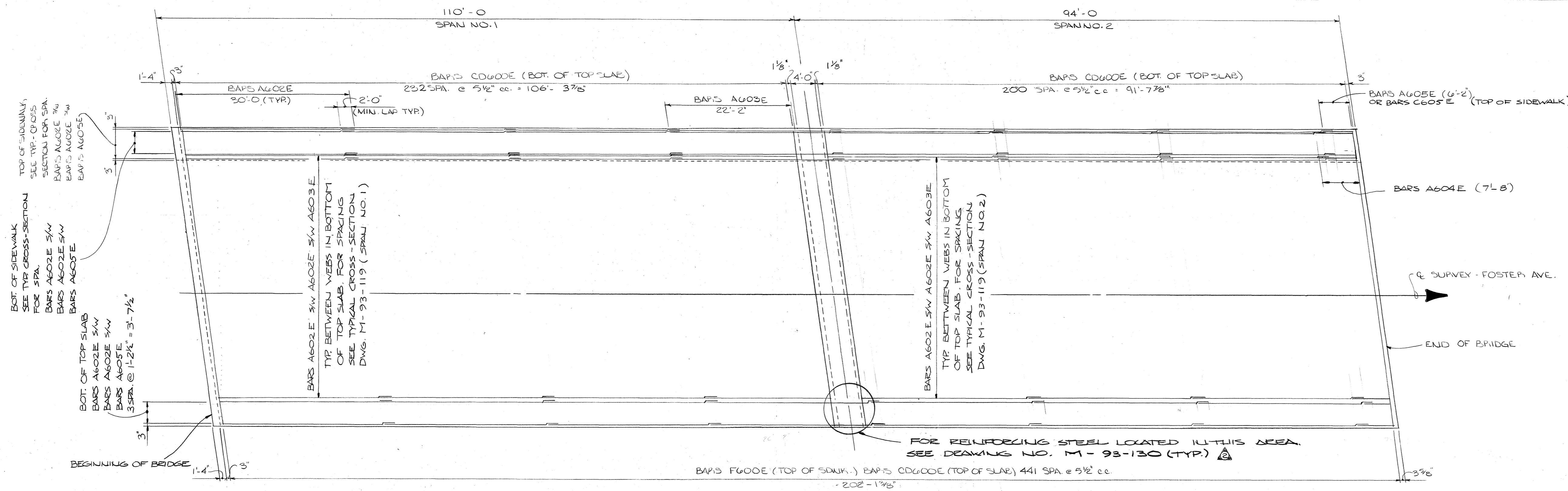
STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF HIGHWAYS
SUPERSTRUCTURE DETAILS
FOSTER AVENUE OVER
INTERSTATE - 440
STATION 447+66.48
DAVIDSON COUNTY
1981

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

MICROFILMED

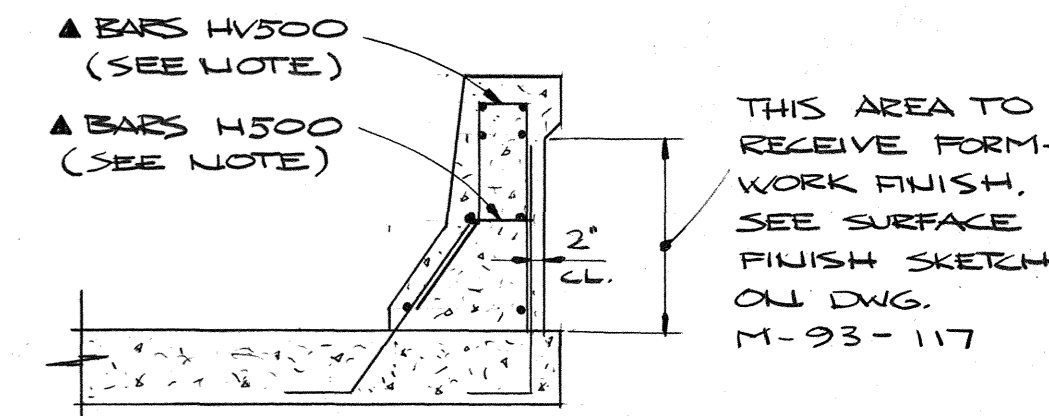
DESIGNED BY P. HENDERSON DATE 2-81
DRAWN BY M. COLEMAN DATE 2-81
SUPERVISED BY J. FIELDS DATE 2-81
CHECKED BY P. HENDERSON DATE 5-81

PROJECT NO.	YEAR	SHEET NO.	
I-440-4(44)212	1981	84	
REVISIONS			
NO.	DATE	BY	BRIEF DESCRIPTION
1	5-11-81	R.H.	GENERAL REVISIONS
2	2-10-82	J.M.S.	ADDED NOTE

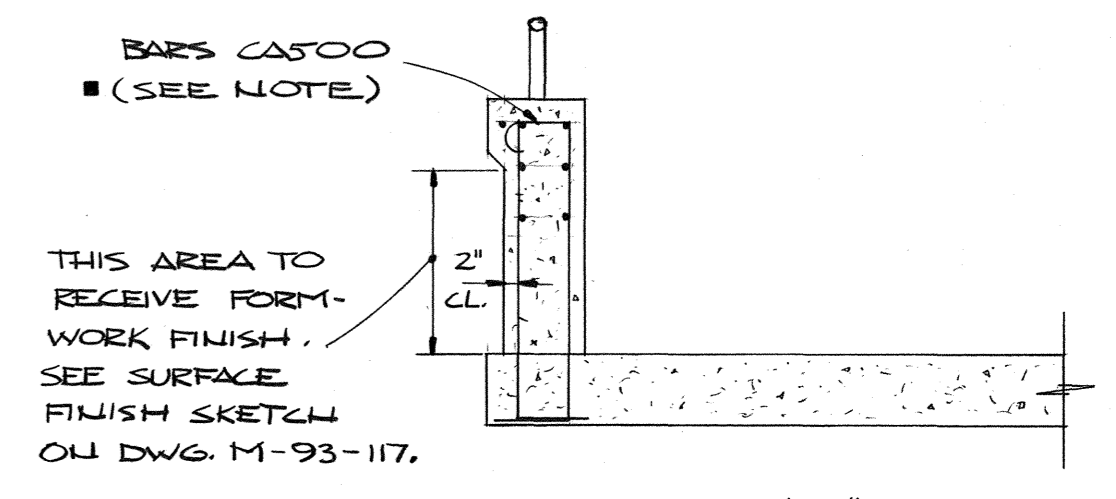
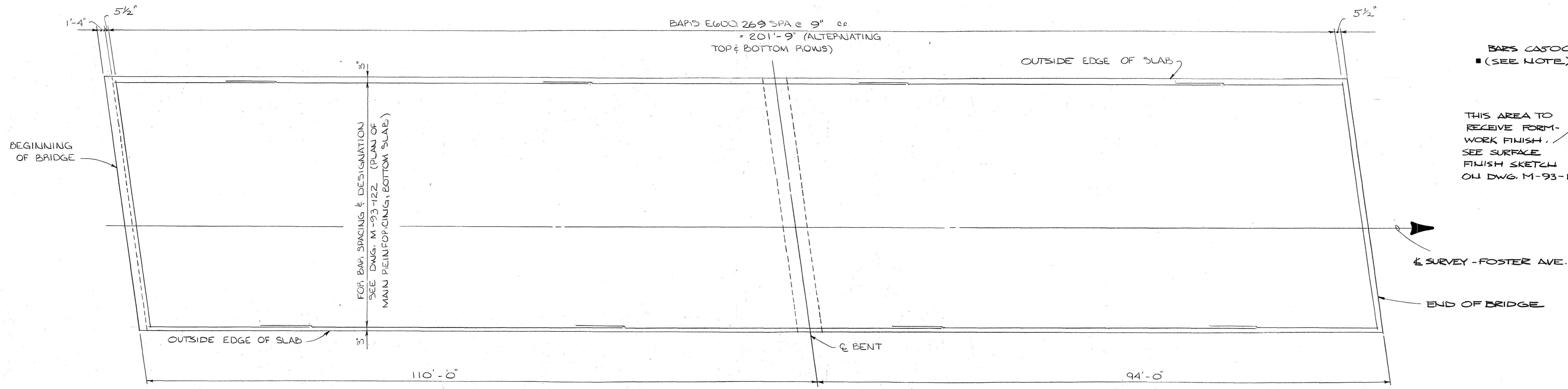


NOTE: FOR MAIN REINFORCING IN TOP SLAB. SEE DWG. M-93-121

SLAB PLAN
SHOWING TOP AND BOTTOM OF TOP SLAB AND TOP OF SIDEWALK.



DETAIL "B"
NOTE: MODIFY BARS H500 AND BARS HV500 TO ACCOMMODATE THE 2" CLEARANCE.



DETAIL "C"
NOTE: MODIFY BARS CA300 TO ACCOMMODATE THE 2" CLEARANCE.

SLAB PLAN
SHOWING BOTTOM SLAB

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF HIGHWAYS

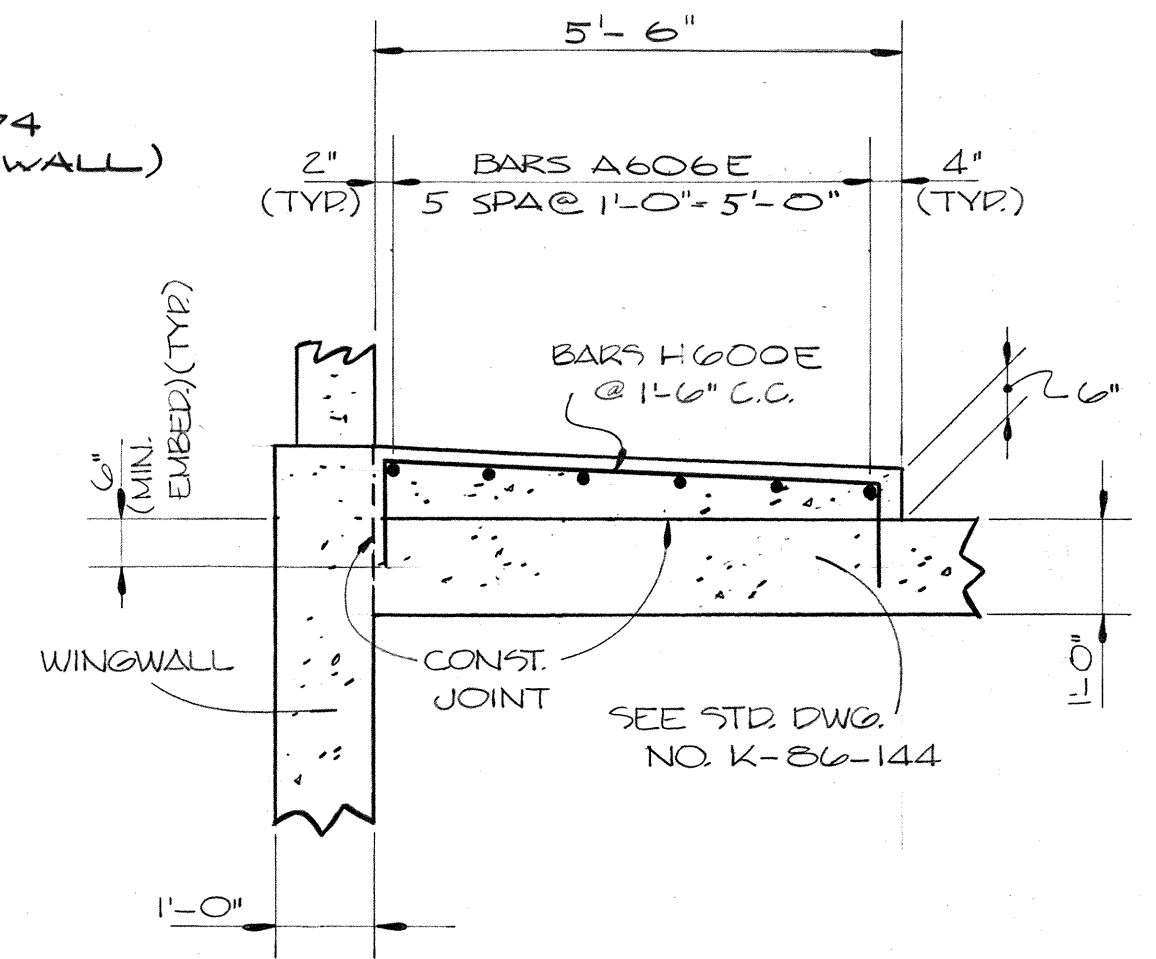
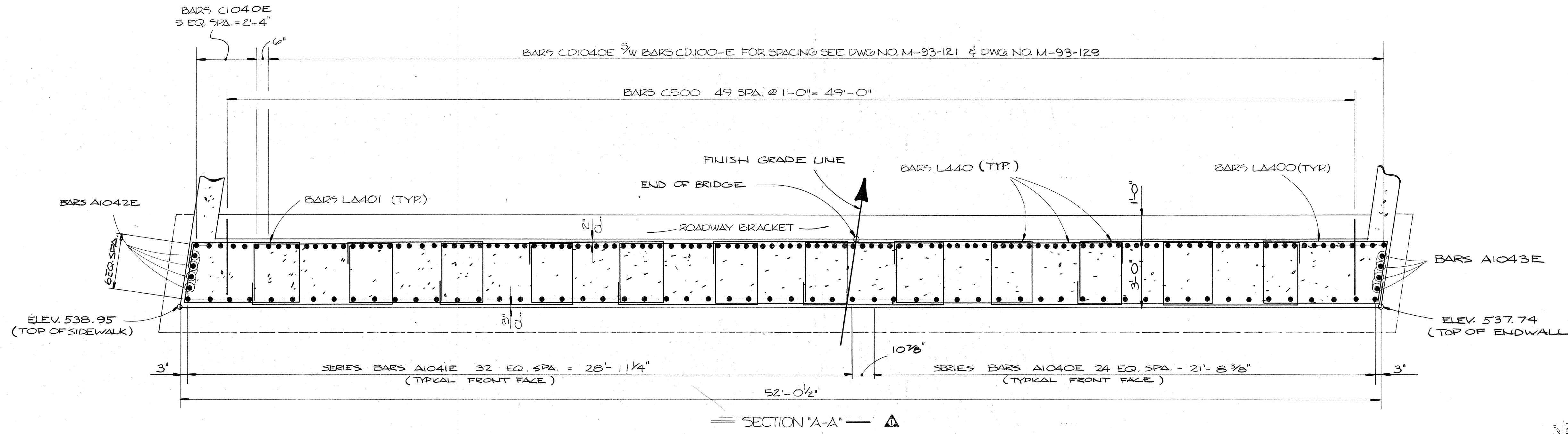
SUPERSTRUCTURE DETAILS
FOSTER AVENUE OVER
INTERSTATE-440
STATION 447+66.48
DAVIDSON COUNTY
1981

DESIGNED BY P. HENDERSON DATE 2-81
DRAWN BY H. COLEMAN DATE 2-81
SUPERVISED BY J. FIELDS DATE 2-81
CHECKED BY R. HENDERSON DATE 3-81

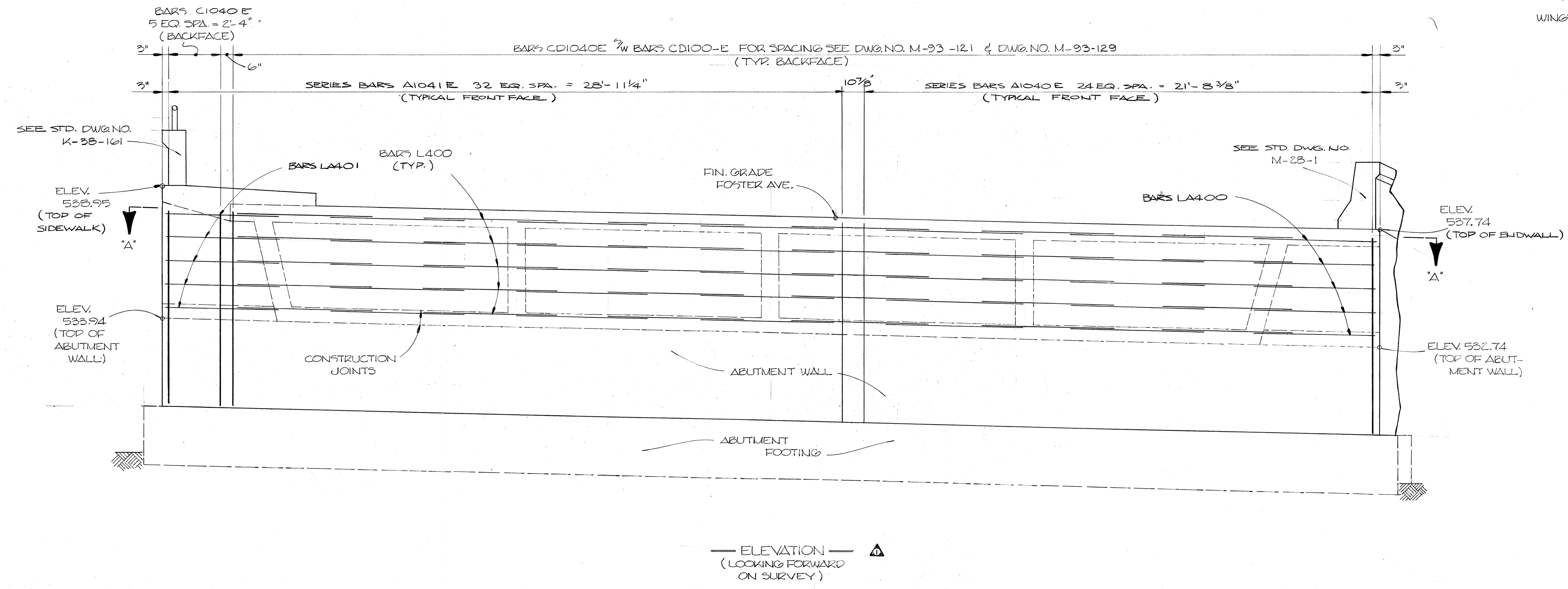
CORRECT *Clifton L. Fowell*
ENGINEER OF STRUCTURES
APPROVED *Louis Evans*
DIRECTOR OF HIGHWAYS

PROJECT NO.	YEAR	SHEET NO.
I.440-4(44)212	1981	85

REVISIONS			
NO.	DATE	BY	BRIEF DESCRIPTION
1	5-11-81	R.H.	GENERAL REVISIONS



NOTE: WHEN POURING WINGWALLS PROVISIONS SHALL BE MADE FOR SETTING REINFORCING STEEL FOR WINGPOST AND PARAPET. SEE STD. DWG. K-38-161 AND M-28-1.



STATE OF TENNESSEE
 DEPARTMENT OF TRANSPORTATION
 BUREAU OF HIGHWAYS
 SUPERSTRUCTURE DETAILS
 @ ABUTMENT NO. 2
 FOSTER AVENUE OVER
 INTERSTATE 440
 STATION 447+66.48
 DAVIDSON COUNTY
 1981

DESIGNED BY R. HENDERSON DATE 3-81
 DRAWN BY DONNA BRILEY DATE 3-81
 SUPERVISED BY J. FIELDS & A. SMITH DATE 3-81
 CHECKED BY R. HENDERSON DATE 5-81

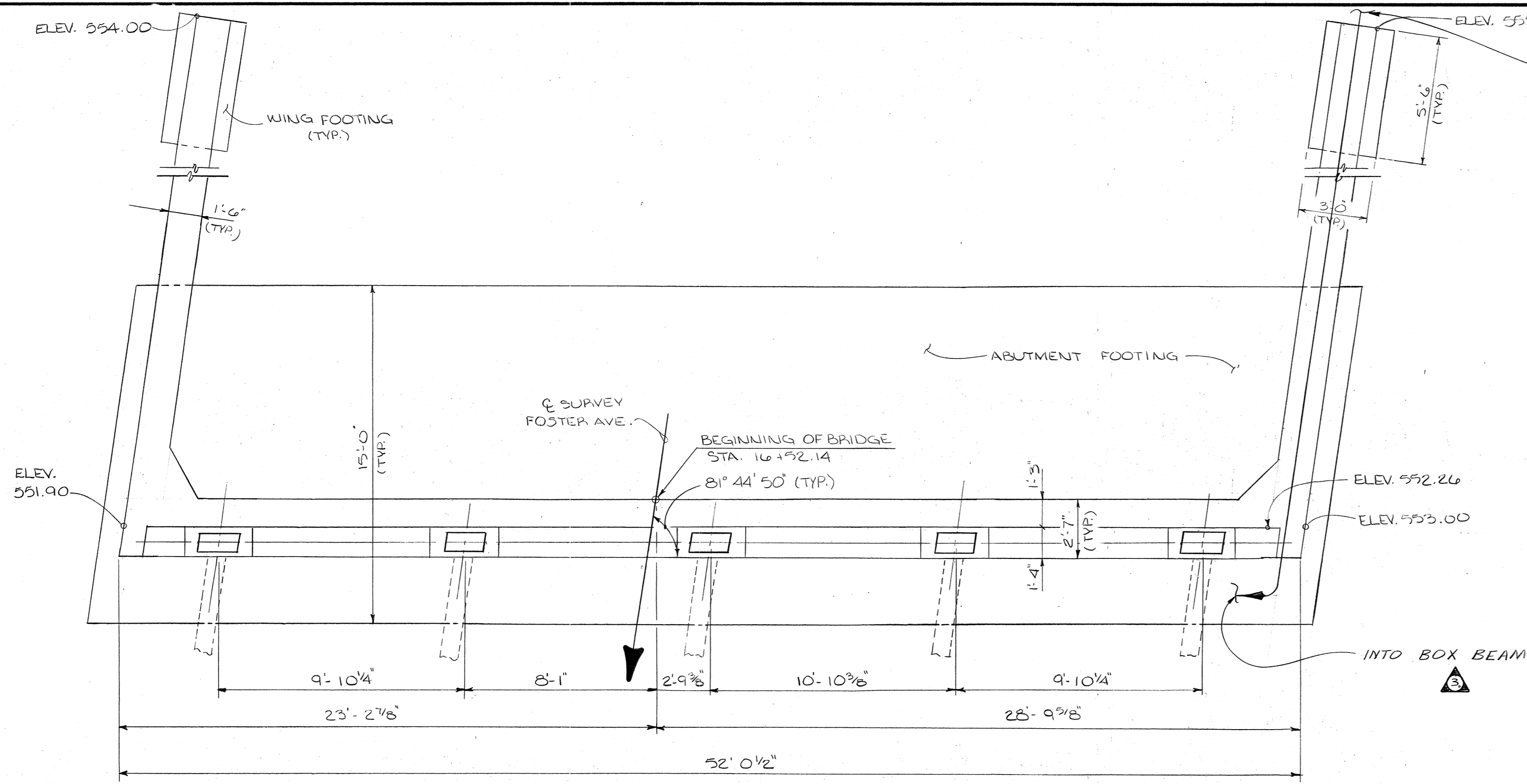
Coleman L. Sewell
 ENGINEER OF STRUCTURES
 APPROVED [Signature]
 DIRECTOR OF HIGHWAYS
 M-93-124

MICROFILMED

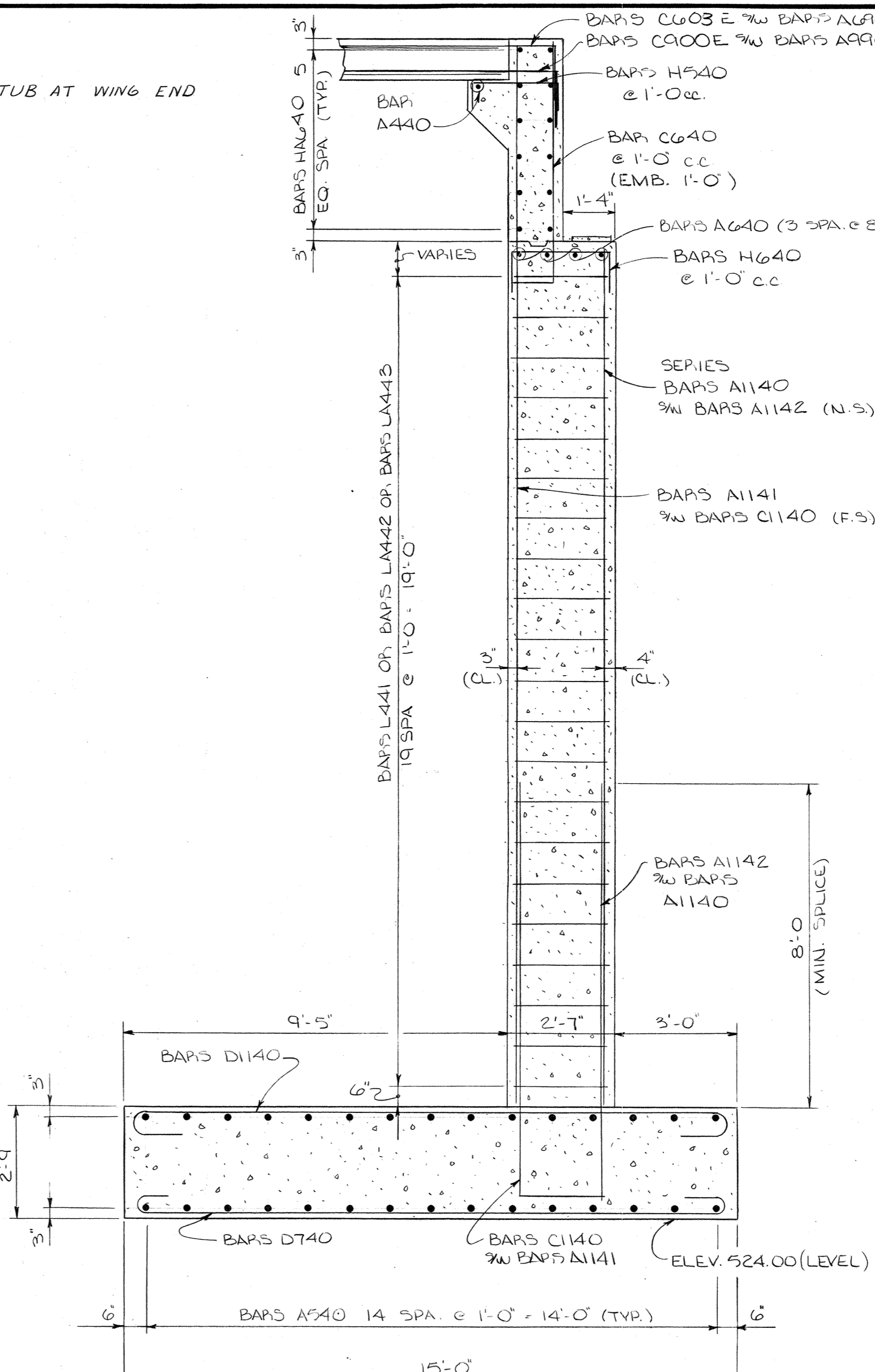
PROJECT NO.	YEAR	SHEET NO.
I-440-4447272	1981	86

REVISIONS

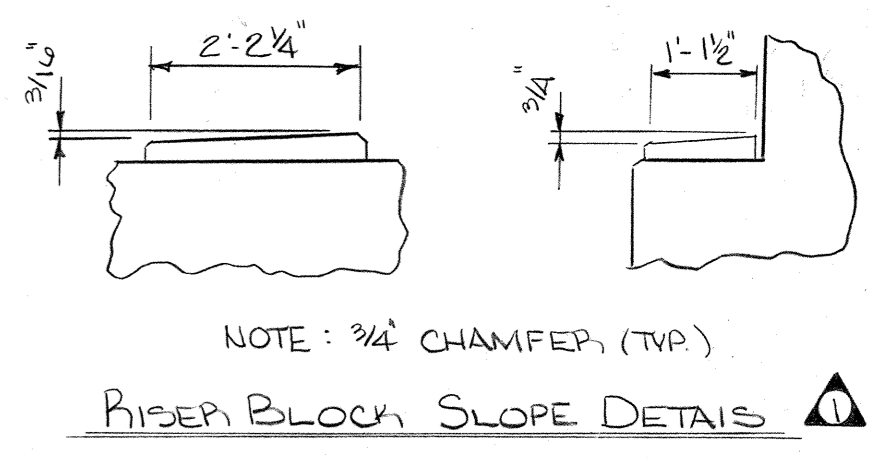
NO.	DATE	BY	BRIEF DESCRIPTION
1	9-11-81	R.H.	GEN. REV.
2	12-8-81	AMS	GENERAL REVISIONS
3	1-25-83	R.M.D.	LIGHTING DETAILS



PLAN
* ELEVATIONS SHOWN ARE AT THE Q BEARING & Q WEBS



SECTION C-C



NOTE: RISER BLOCKS TO BE POURED MONOLITHICALLY WITH ABUTMENT BEAM.
NOTE: FOR RISER BLOCK DETAILS, SEE DWG. M-93-121.

NOTE: RISER BLOCK BEARING PAD TO CONFORM TO BOTTOM OF BEAM GRADE.

NOTE: COST OF BRIDGE RAIL AND POST IS TO BE INCLUDED IN THE COST OF BRIDGE RAIL SYSTEM.

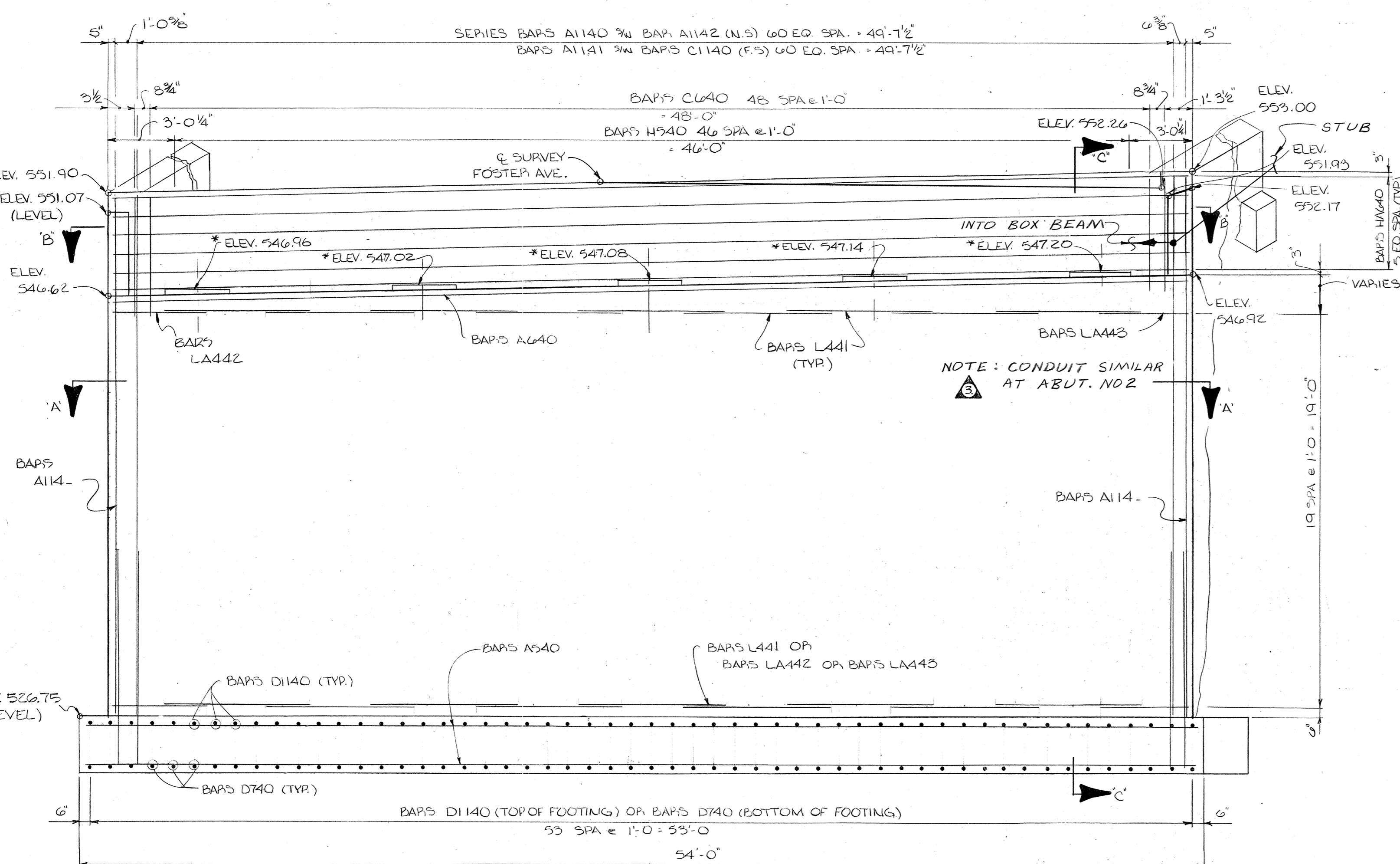
NOTE: THE CONTRACTOR SHALL SUPPORT THE ABUTMENTS UNTIL THE SUPERSTRUCTURE IS IN PLACE, FALSEWORK HAS BEEN REMOVED AND BACKFILLING HAS BEEN COMPLETED.

ESTIMATED QUANTITIES

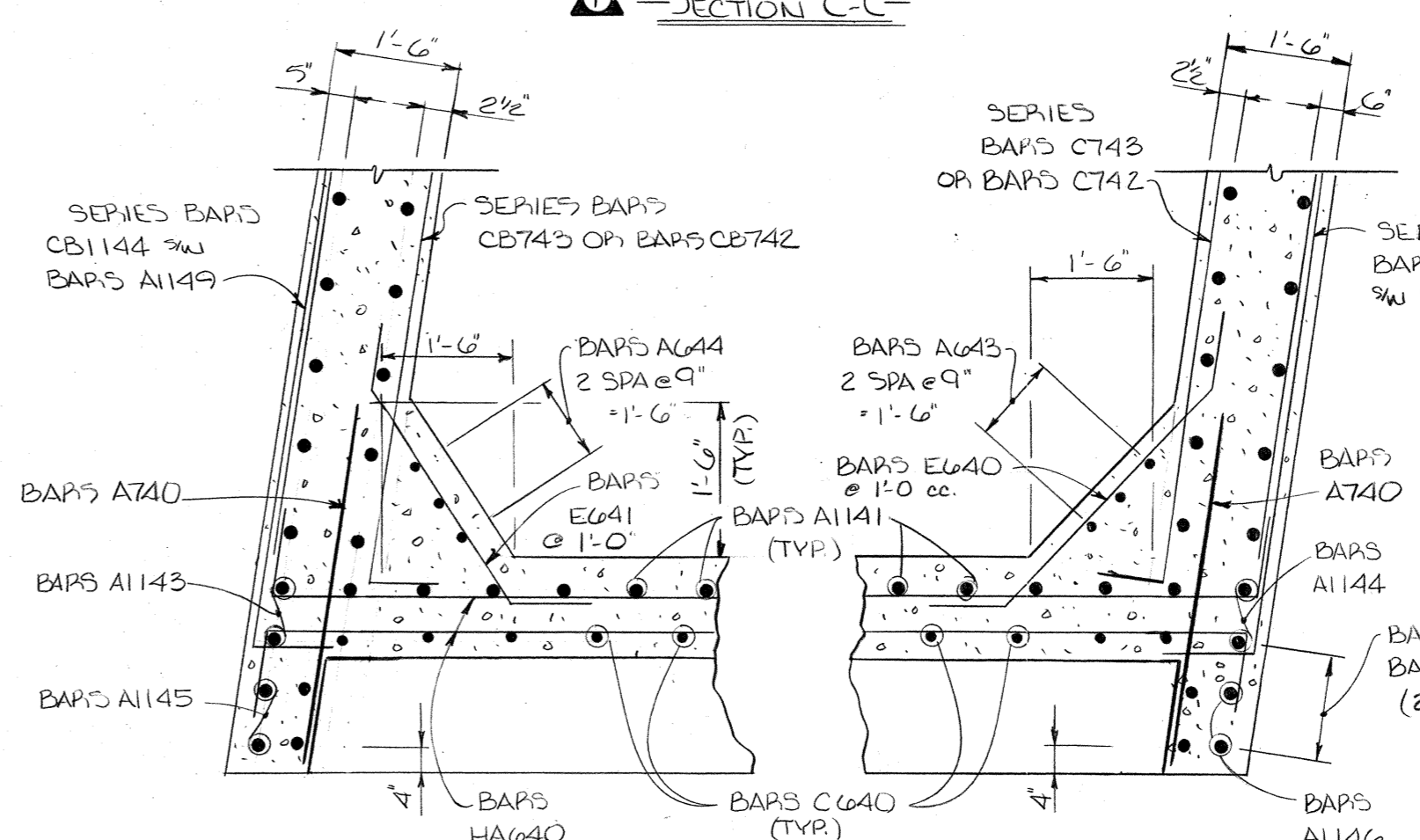
ITEM	CLASS 'A' CONCRETE CY	REINFORCING STEEL LBS.
ABUTMENT 1	274.3	54,902

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF HIGHWAYS

ABUTMENT NO. 1 DETAILS
FOSTER AVENUE OVER
INTERSTATE-440
STATION 447+66.48
DAVIDSON COUNTY
1981



ELEVATION
LOOKING BACK ON SURVEY



PART SECTION B-B
SEE DWG. M-93-126 AND DWG. M-93-127

DESIGNED BY P. HENDERSON
DRAWN BY K. COLEMAN
SUPERVISED BY J. FIELDS
CHECKED BY P. HENDERSON

DATE 3-81
DATE 3-81
DATE 3-81
DATE 5-81

Coleman L. Foreall
ENGINEER OF STRUCTURES
APPROVED
Louis Evans
DIRECTOR OF HIGHWAYS

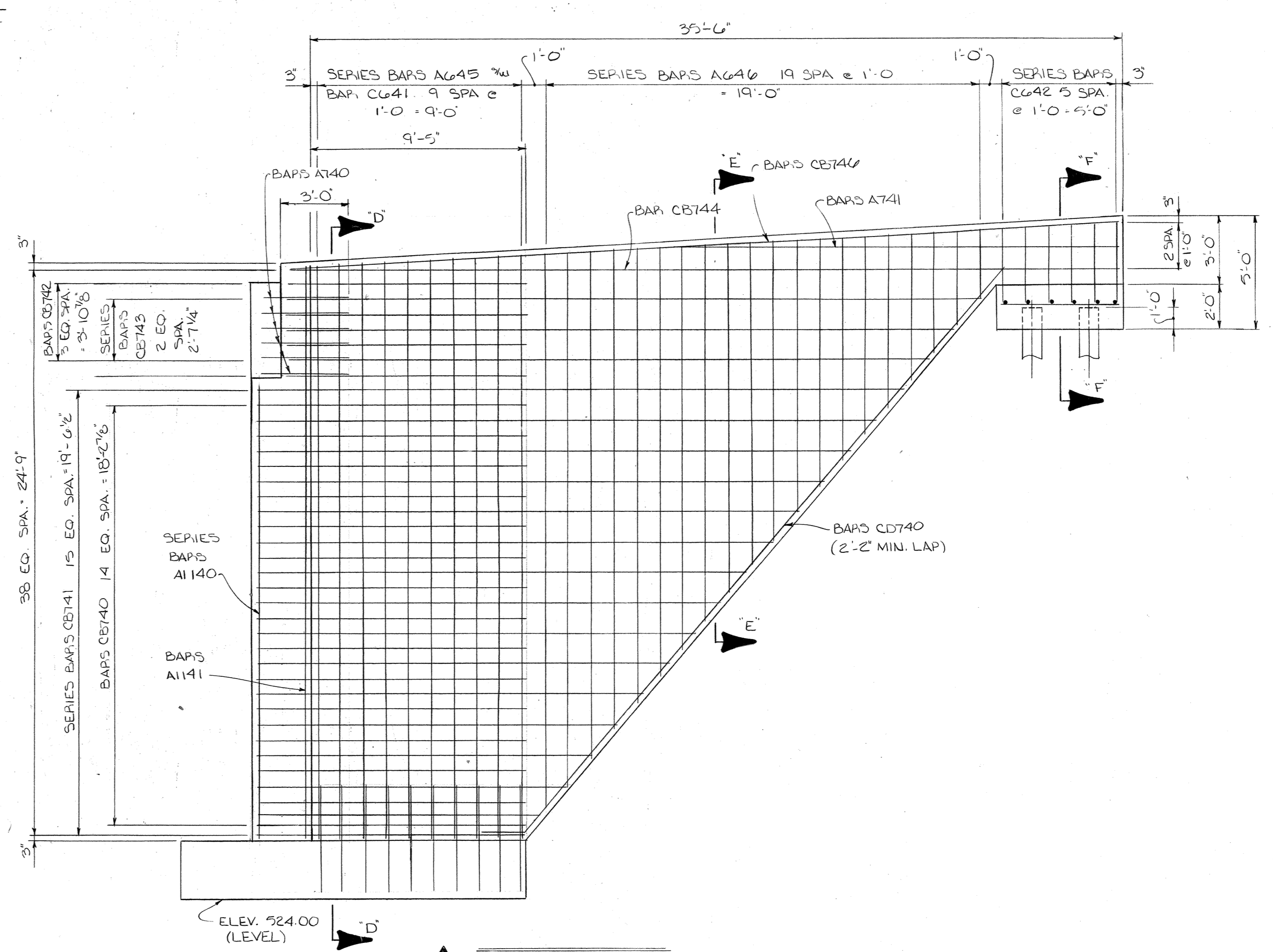
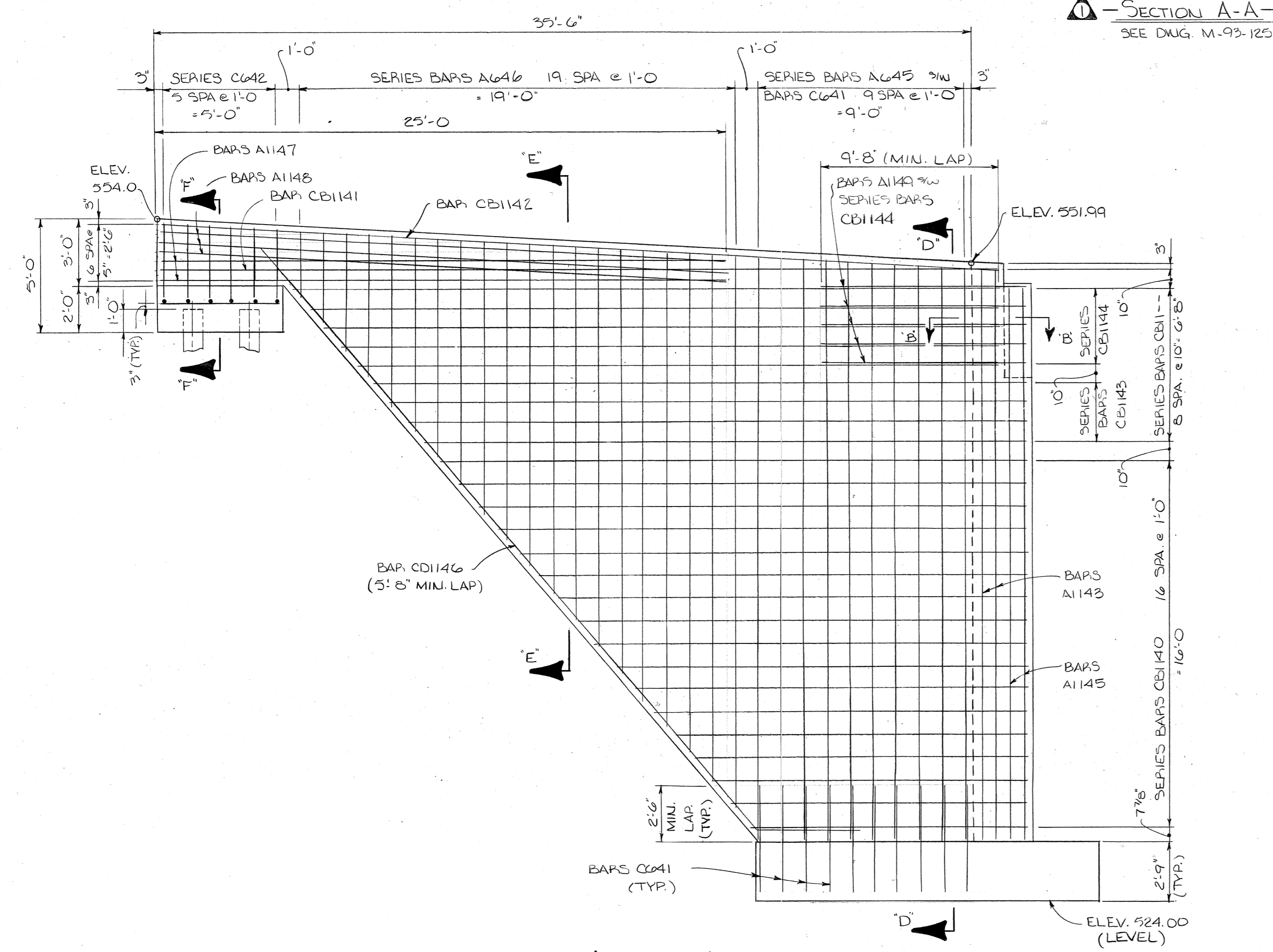
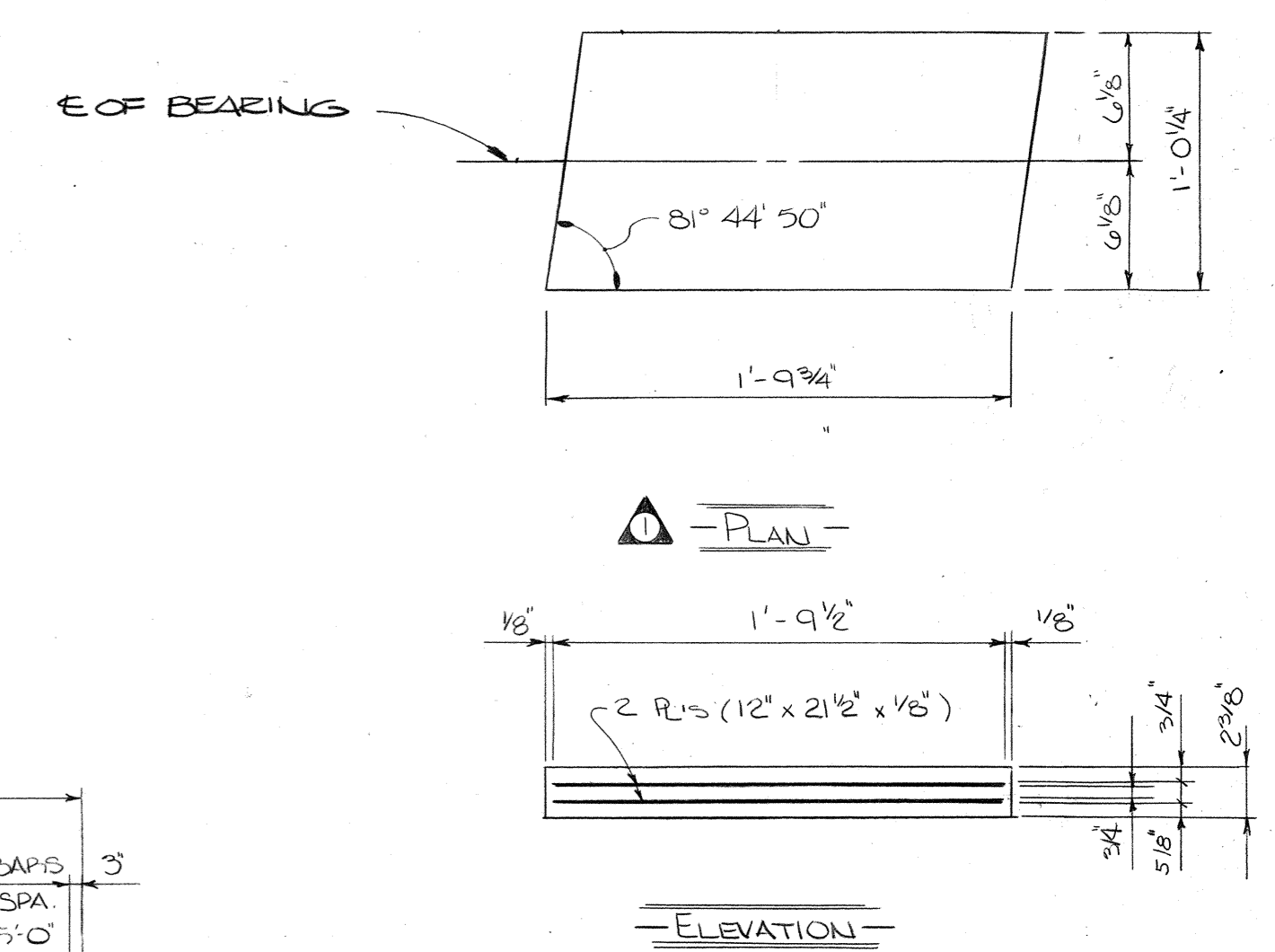
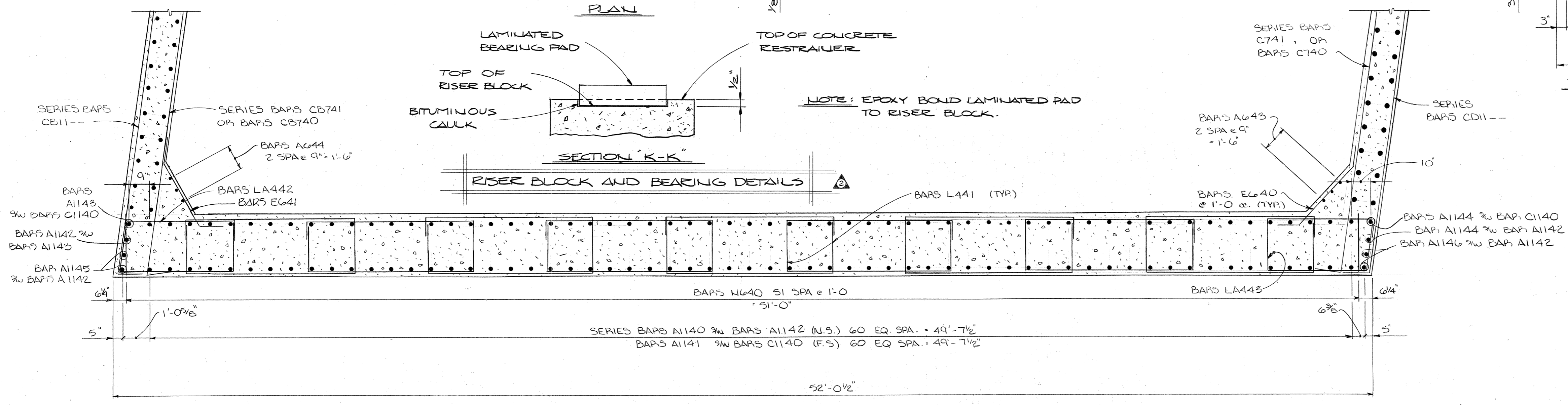
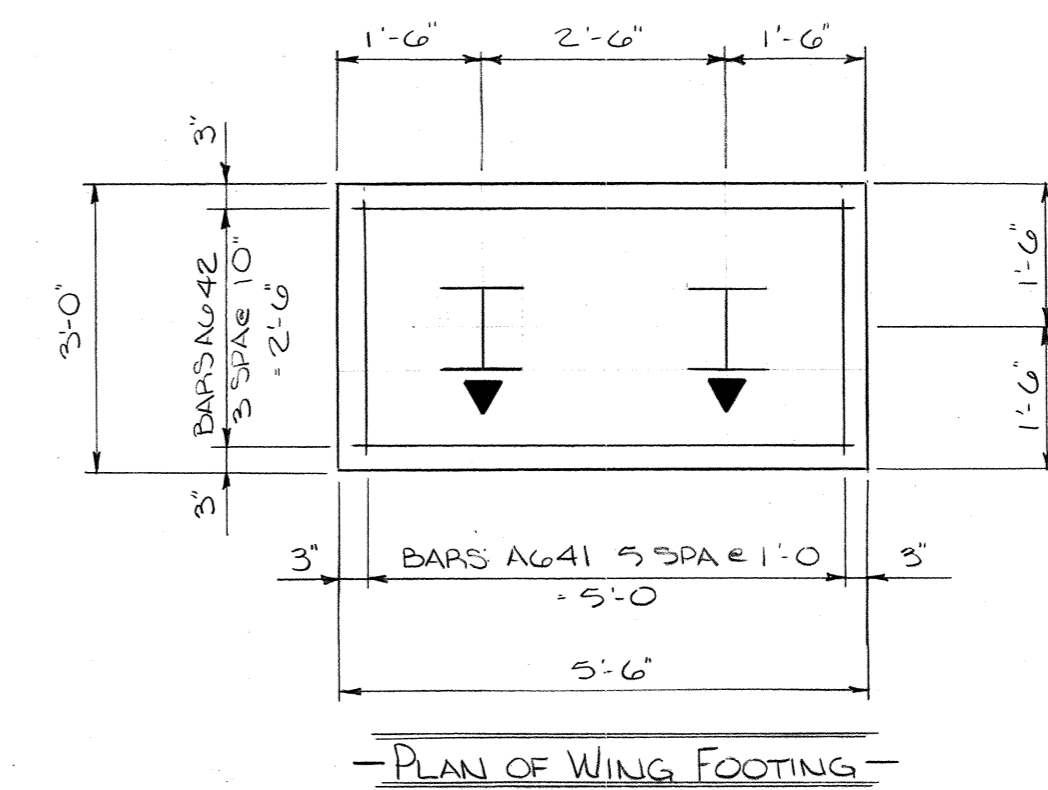
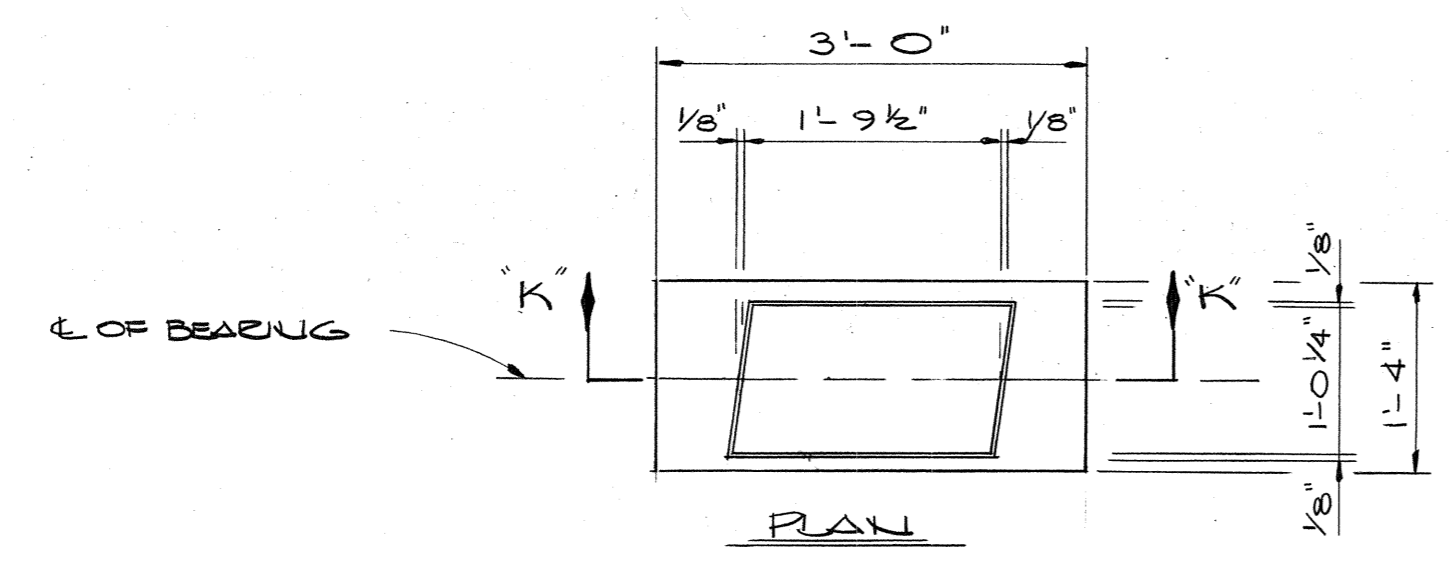
M-93-125

NOTE: HP 10x42 PILES
BATTER OUTWARD @ 3:12

CONST. NO. 1905-3110-44

PROJECT NO.	YEAR	SHEET NO.
I-440-4(44)212	1981	87

REVISIONS			
NO.	DATE	BY	BRIEF DESCRIPTION
1	9-11-81	PH	GEN. REV.
2	12-18-81	AMS	GENERAL REVISIONS



RIGHT WINGWALL
OUTSIDE FACE (N.S.)
SEE DWG. M-93-127

RIGHT WINGWALL
TRAFFIC FACE (F.S.)
SEE DWG. M-93-127

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF HIGHWAYS
ABUTMENT NO. 1 DETAILS
FOSTER AVENUE OVER
INTERSTATE - 440
STATION 447+66.48
DAVIDSON COUNTY
1981

CORRECT *William L. Jorvall*
ENGINEER OF STRUCTURES
APPROVED *Louis Evans*
DIRECTOR OF HIGHWAYS

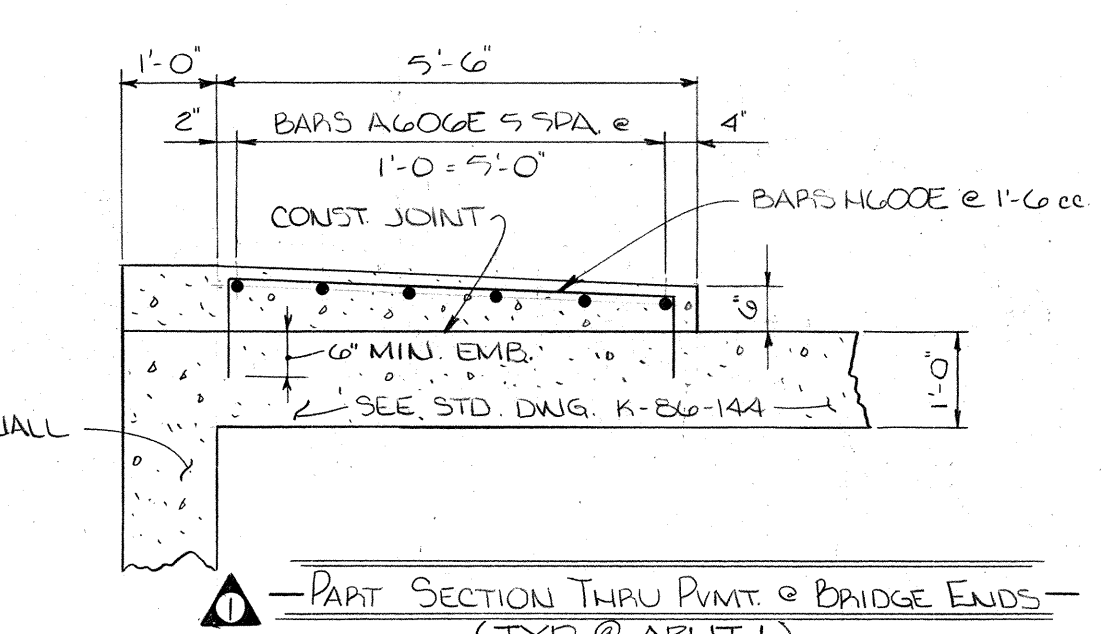
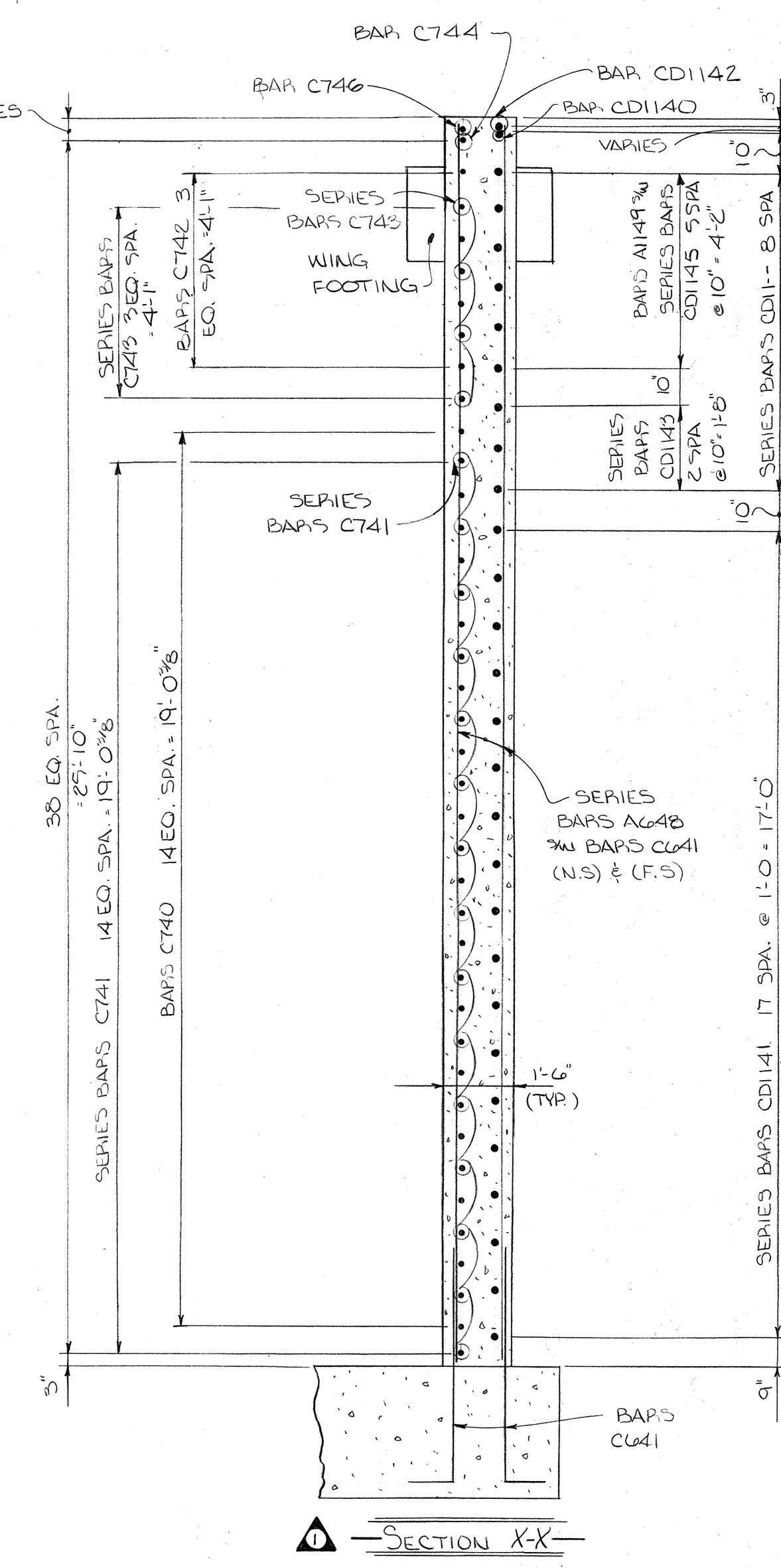
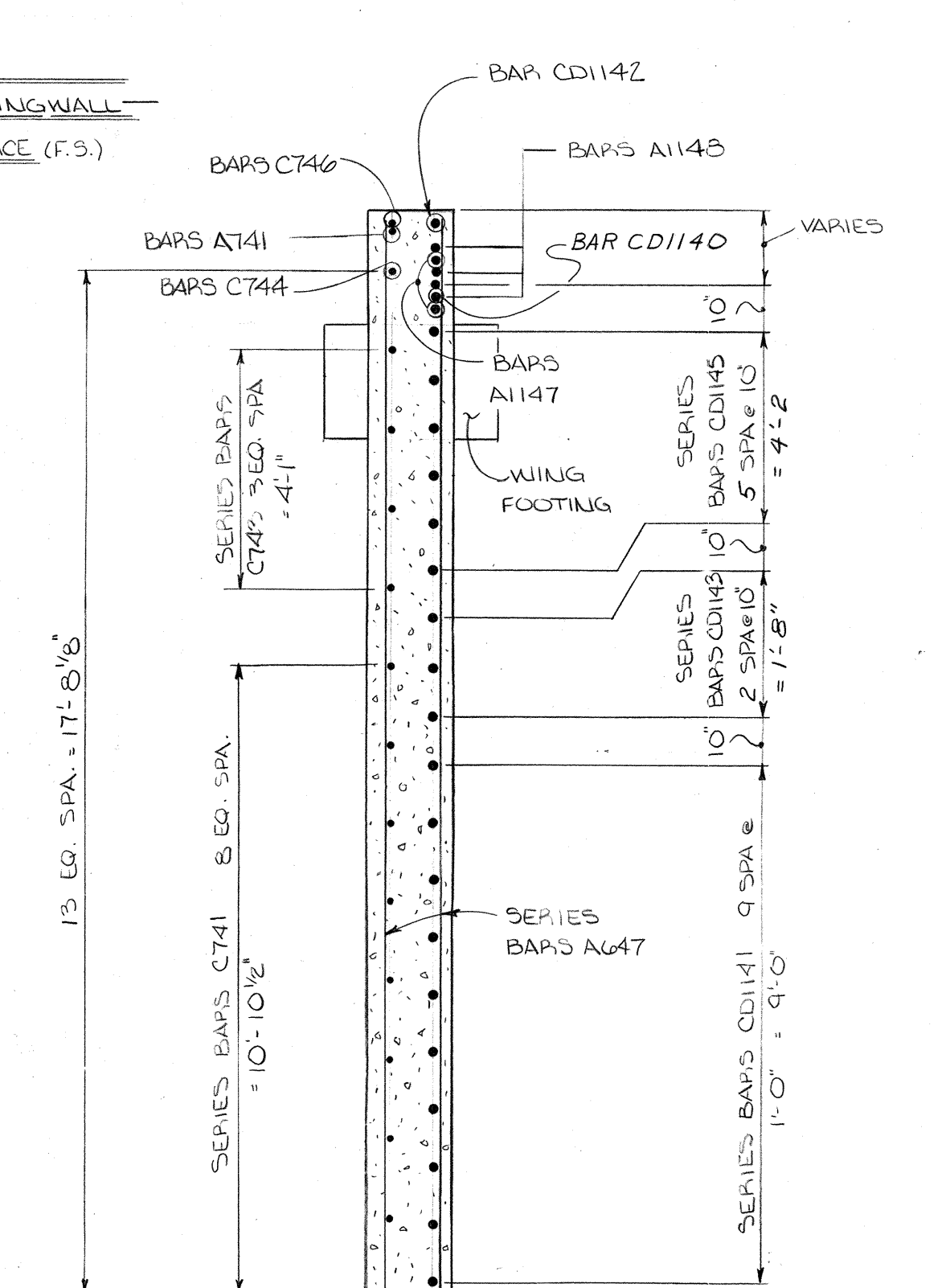
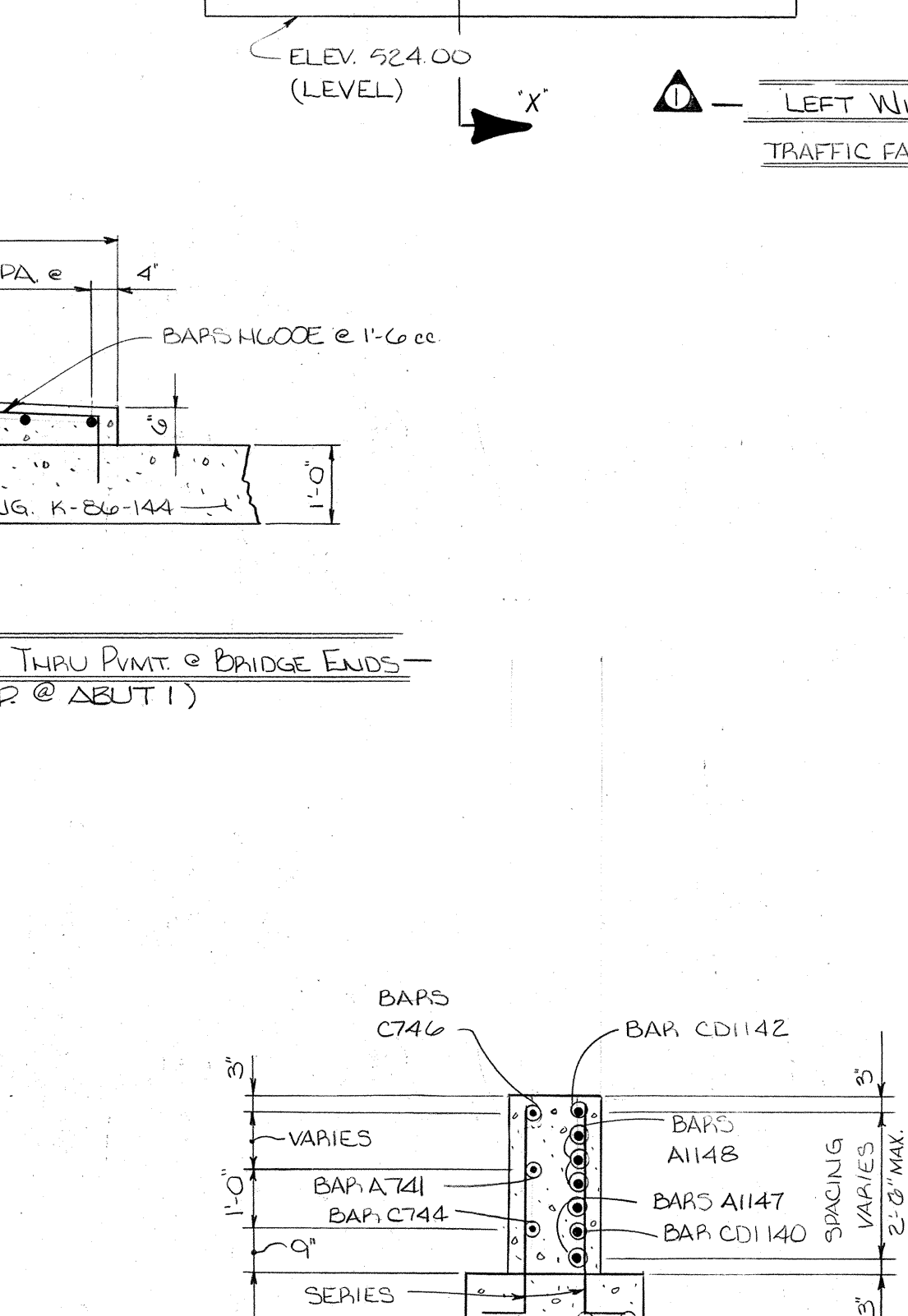
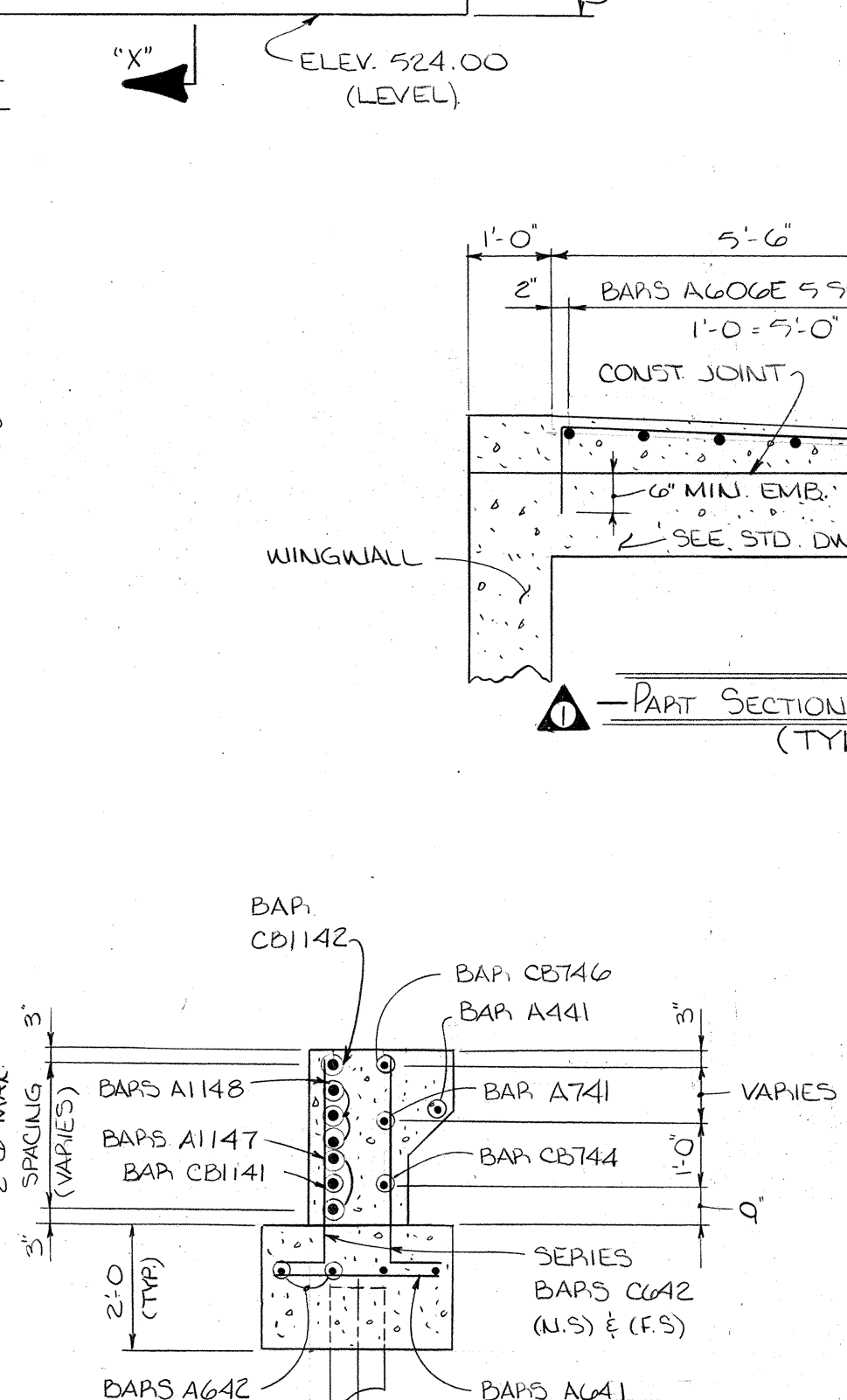
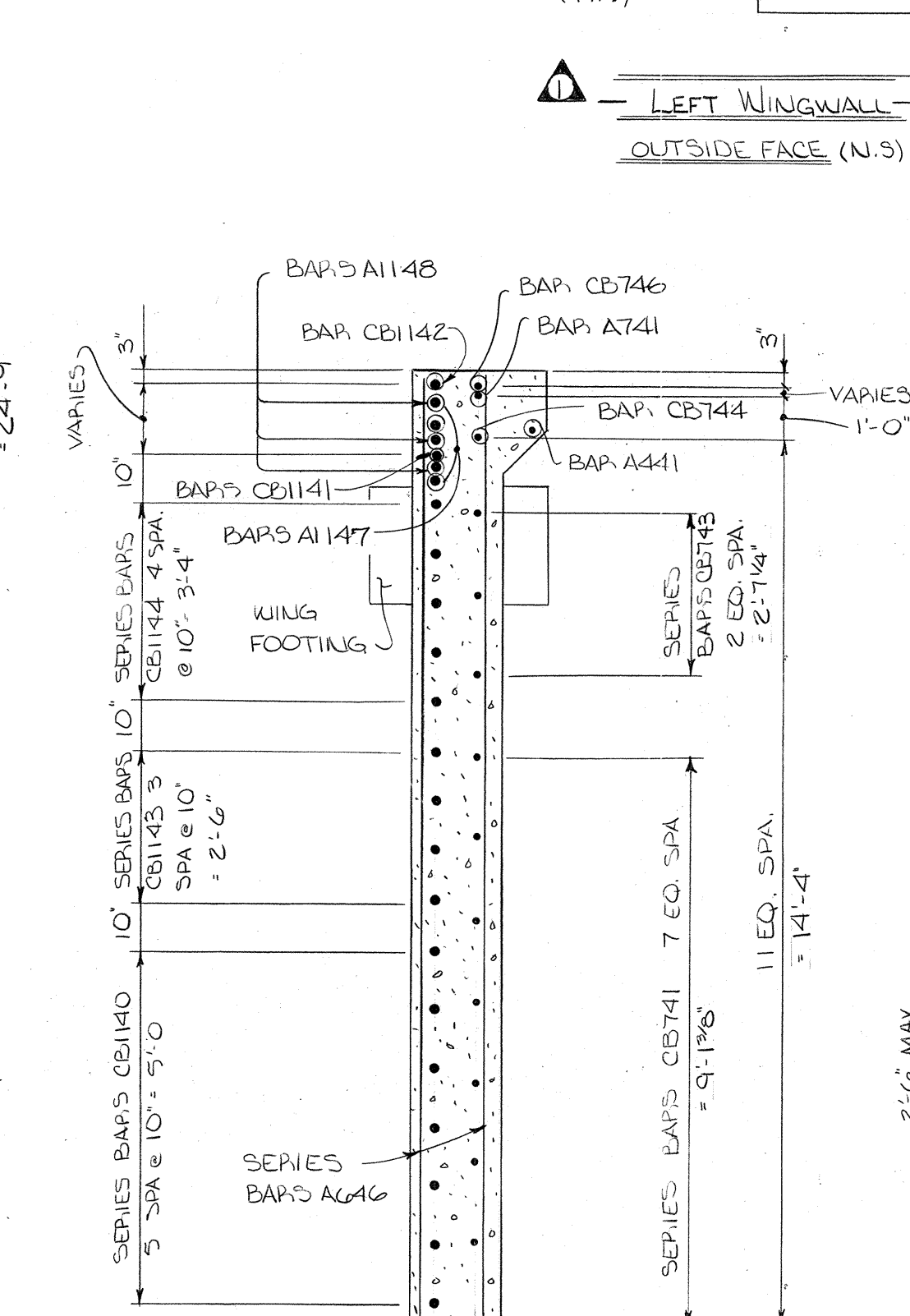
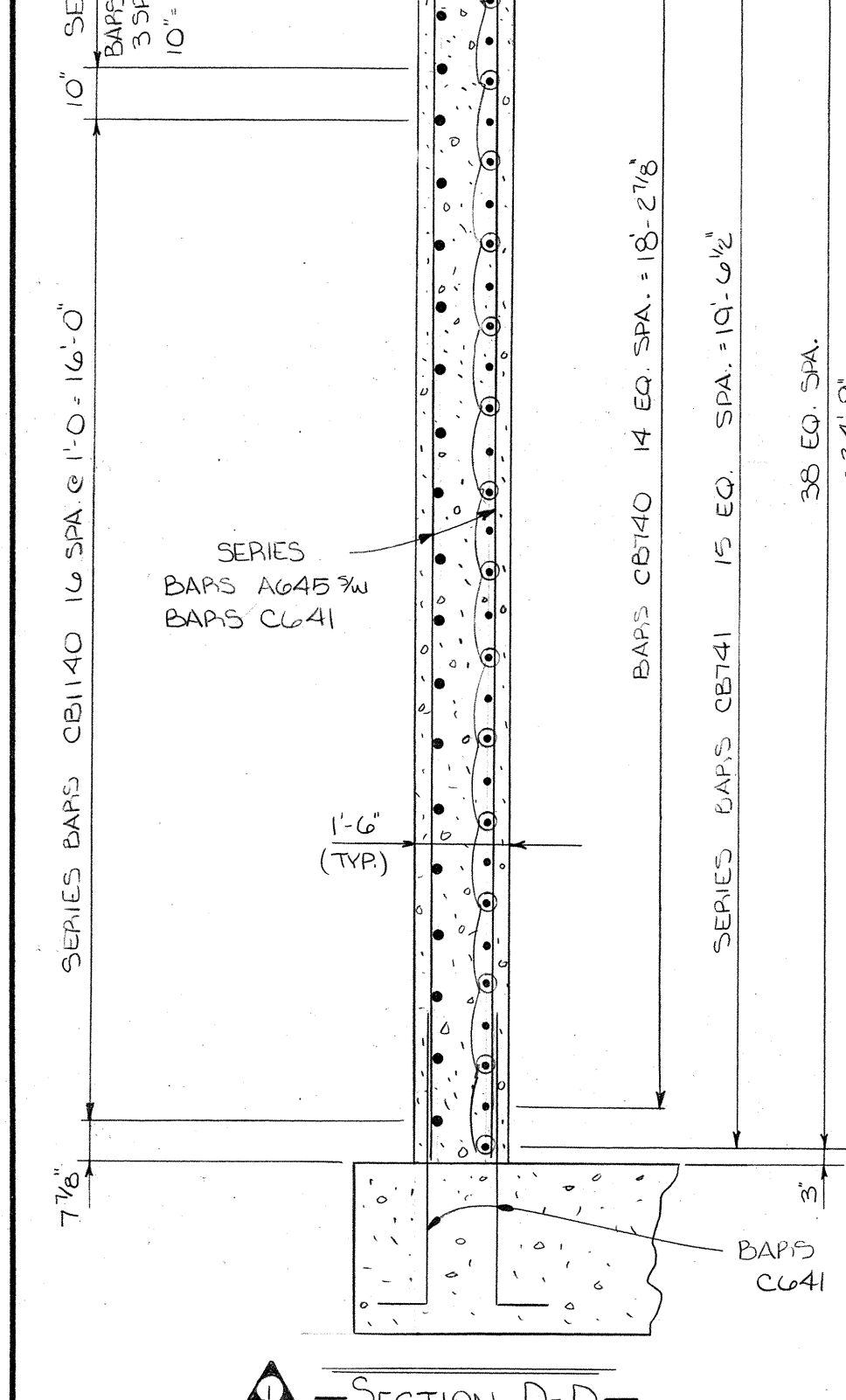
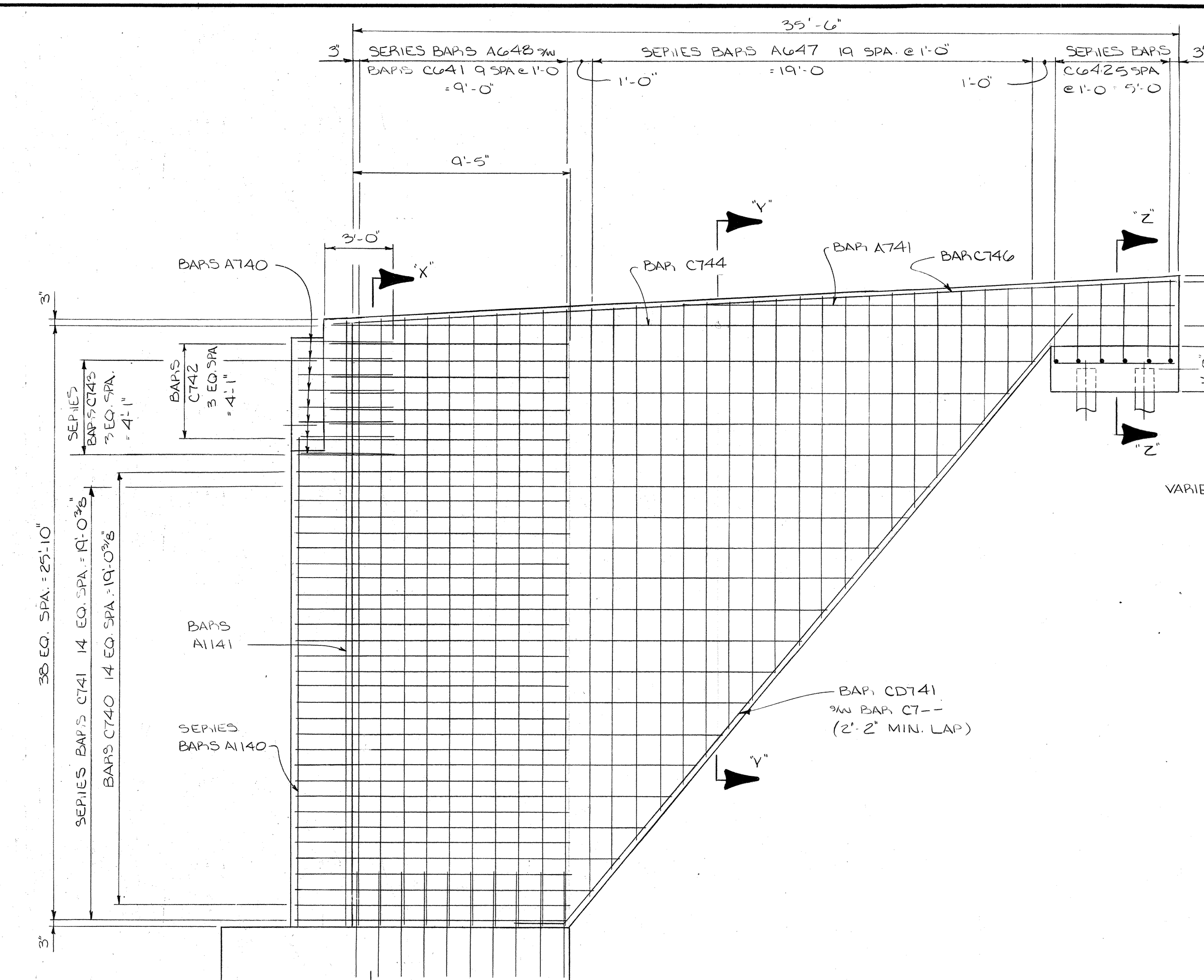
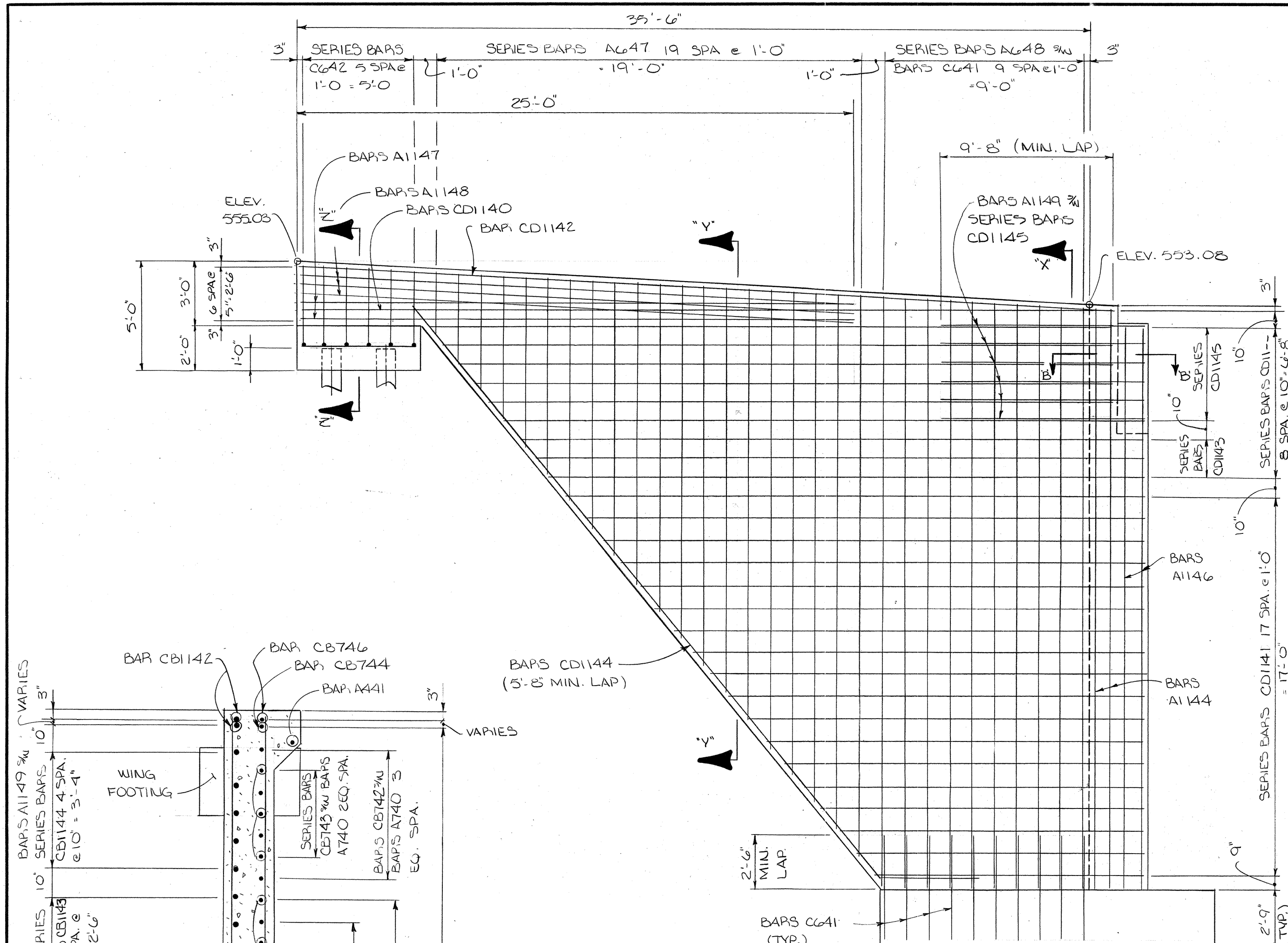
M-93-126

MICROFILMED

DESIGNED BY RICK HENDERSON DATE 2-81
DRAWN BY K. COLEMAN DATE 3-81
SUPERVISED BY J. FIELDS & A. SMITH DATE 3-81
CHECKED BY R. HENDERSON DATE 5-81

MICROFILMED

CONST. NO. 19015-3110-44			
PROJECT NO.	YEAR	SHEET NO.	
I-440-4(44)212	1981	88	
REVISIONS			
NO.	DATE	BY	BRIEF DESCRIPTION
1	9-11-81	RA	GEN. REV.
2	12-18-81	A.M.S.	GENERAL REVISIONS



DESIGNED BY P. HENDERSON DATE 2-81
 DRAWN BY K. COLEMAN DATE 3-81
 SUPERVISED BY J. FIELDS & A. SMITH DATE 3-81
 CHECKED BY P. HENDERSON DATE 3-81

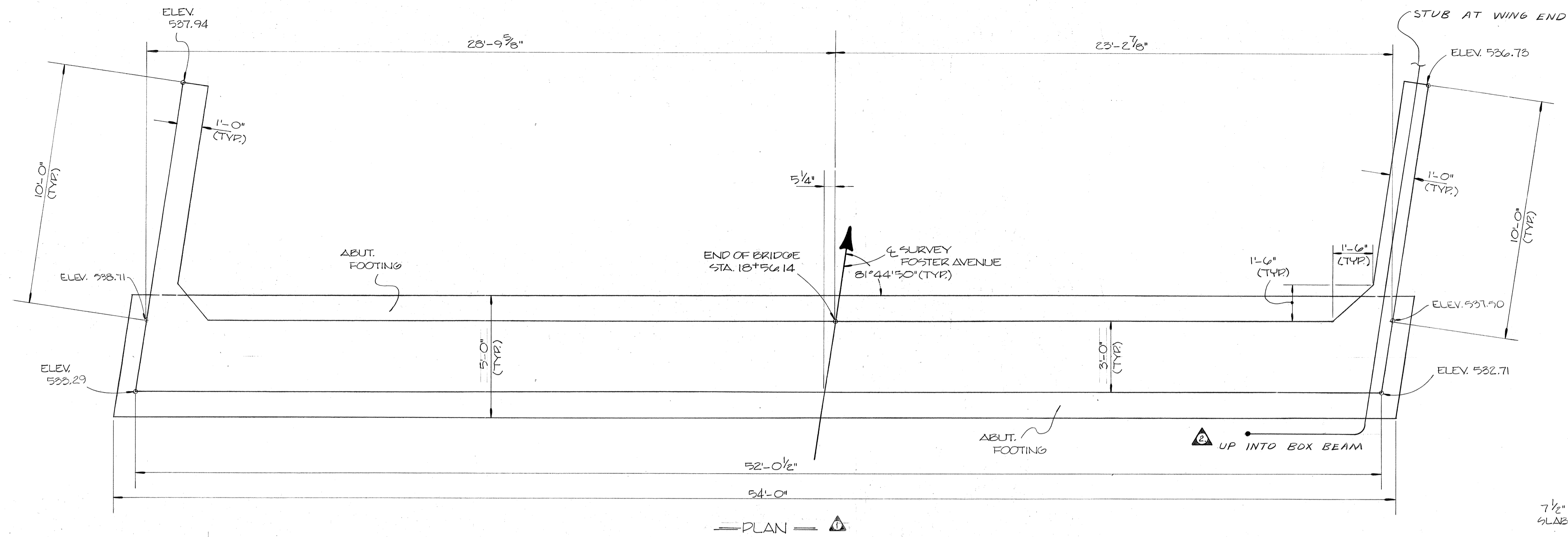
STATE OF TENNESSEE
 DEPARTMENT OF TRANSPORTATION
 BUREAU OF HIGHWAYS
 ABUTMENT NO. 1 DETAILS
 FOSTER AVENUE OVER
 INTERSTATE-440
 STATION 447+66.48
 DAVIDSON COUNTY

CORRECT *Clifton L. Jorreal*
 ENGINEER OF STRUCTURES
 APPROVED *Louis Evans*
 DIRECTOR OF HIGHWAYS

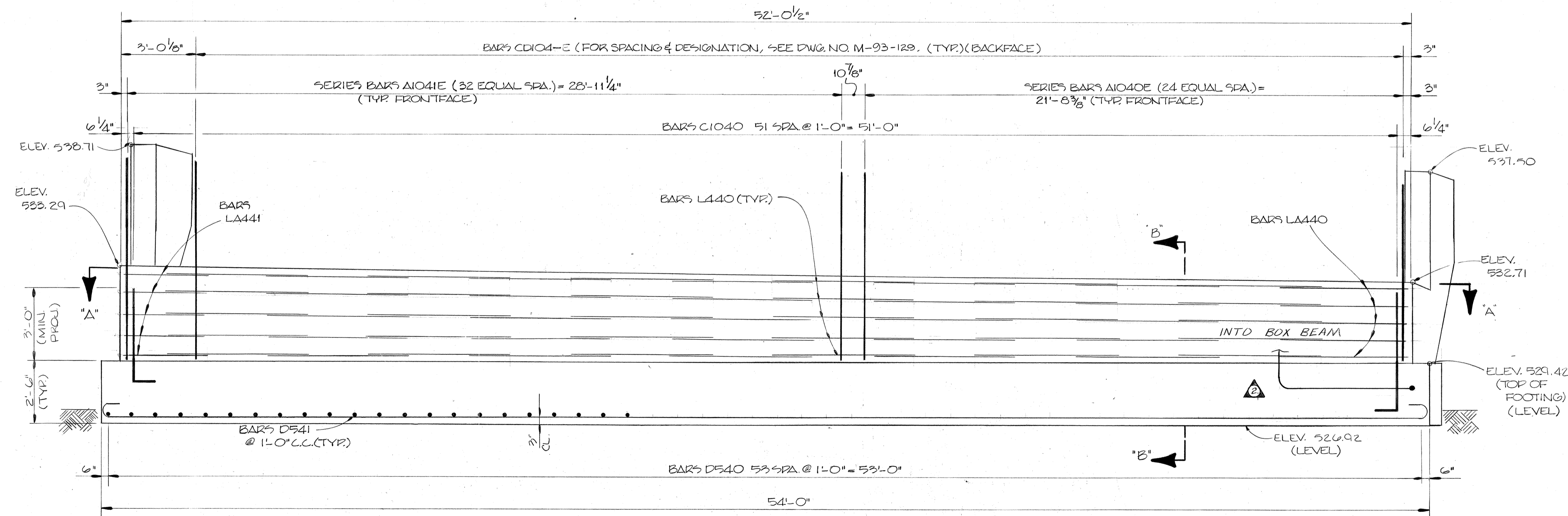
M-93-127

PROJECT NO.	YEAR	SHEET NO.
E440-4 (44)212	1981	89

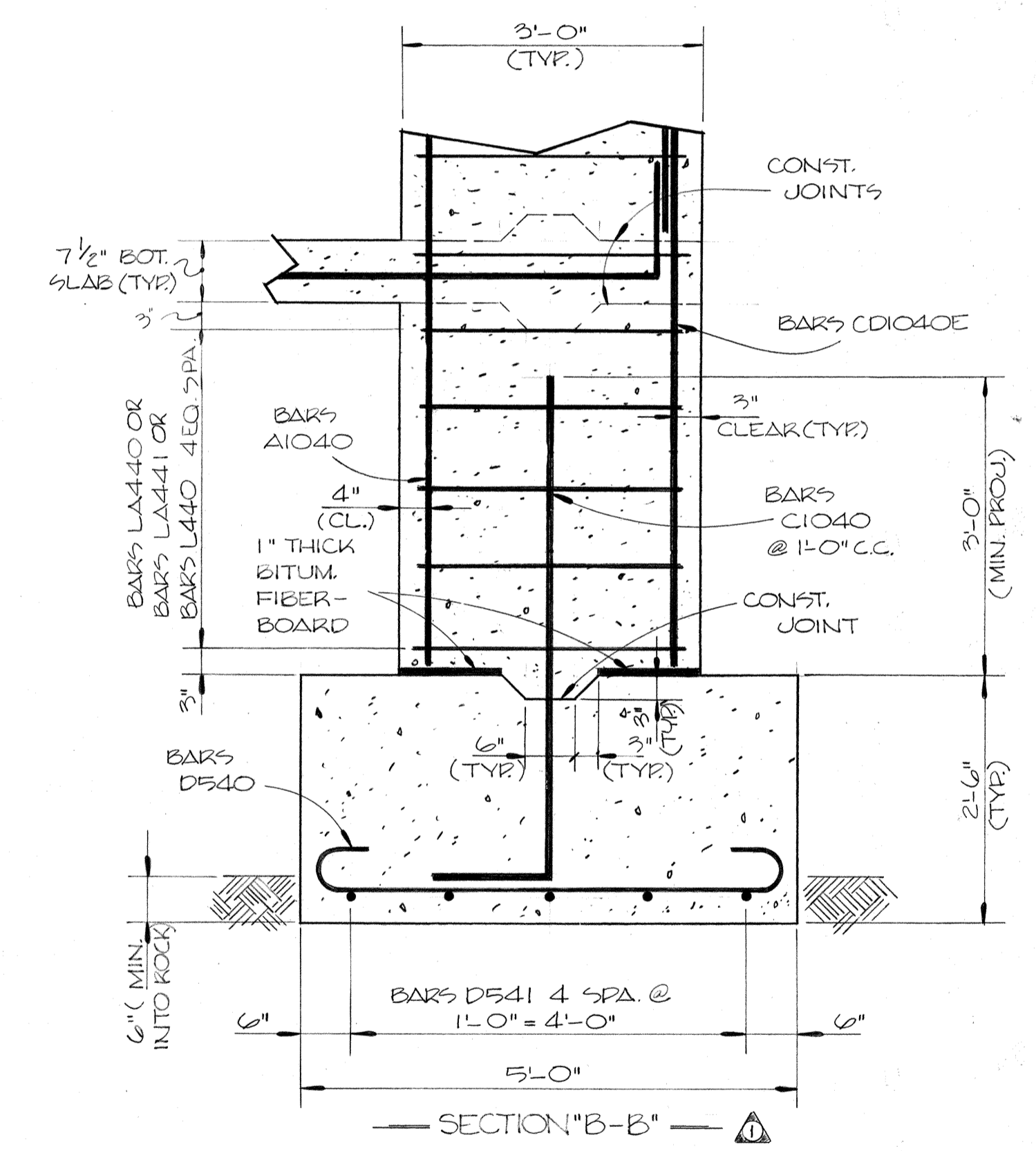
REVISIONS			
NO.	DATE	BY	BRIEF DESCRIPTION
1	5-11-81	ALV	GENERAL REVISIONS
2	1-25-83	R.M.D.	LIGHTING DETAILS



— PLAN —



— ELEVATION —
(LOOKING FORWARD ON SURVEY-ABUT 2)



ESTIMATED QUANTITIES		
CLASS 'A' CONCRETE (C.Y.)	REINF. STEEL LBS.	EPOXY STEEL LBS.
50.3	4,629	8,962

STATE OF TENNESSEE
 DEPARTMENT OF TRANSPORTATION
 BUREAU OF HIGHWAYS
 ABUTMENT NO. 2
 FOSTER AVENUE
 OVER INTERSTATE 440
 STATION 447+66.45
 DAVIDSON COUNTY
 1981

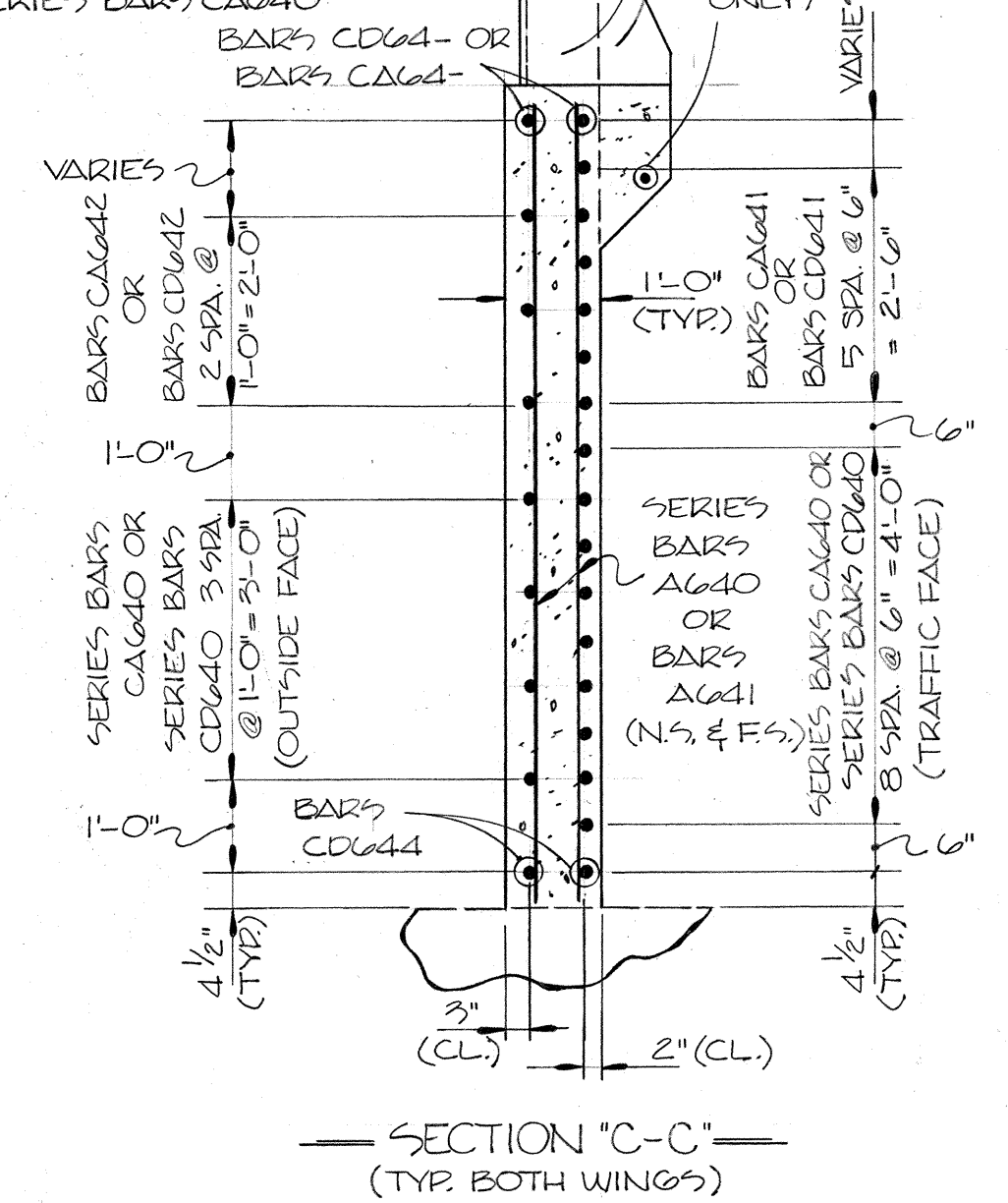
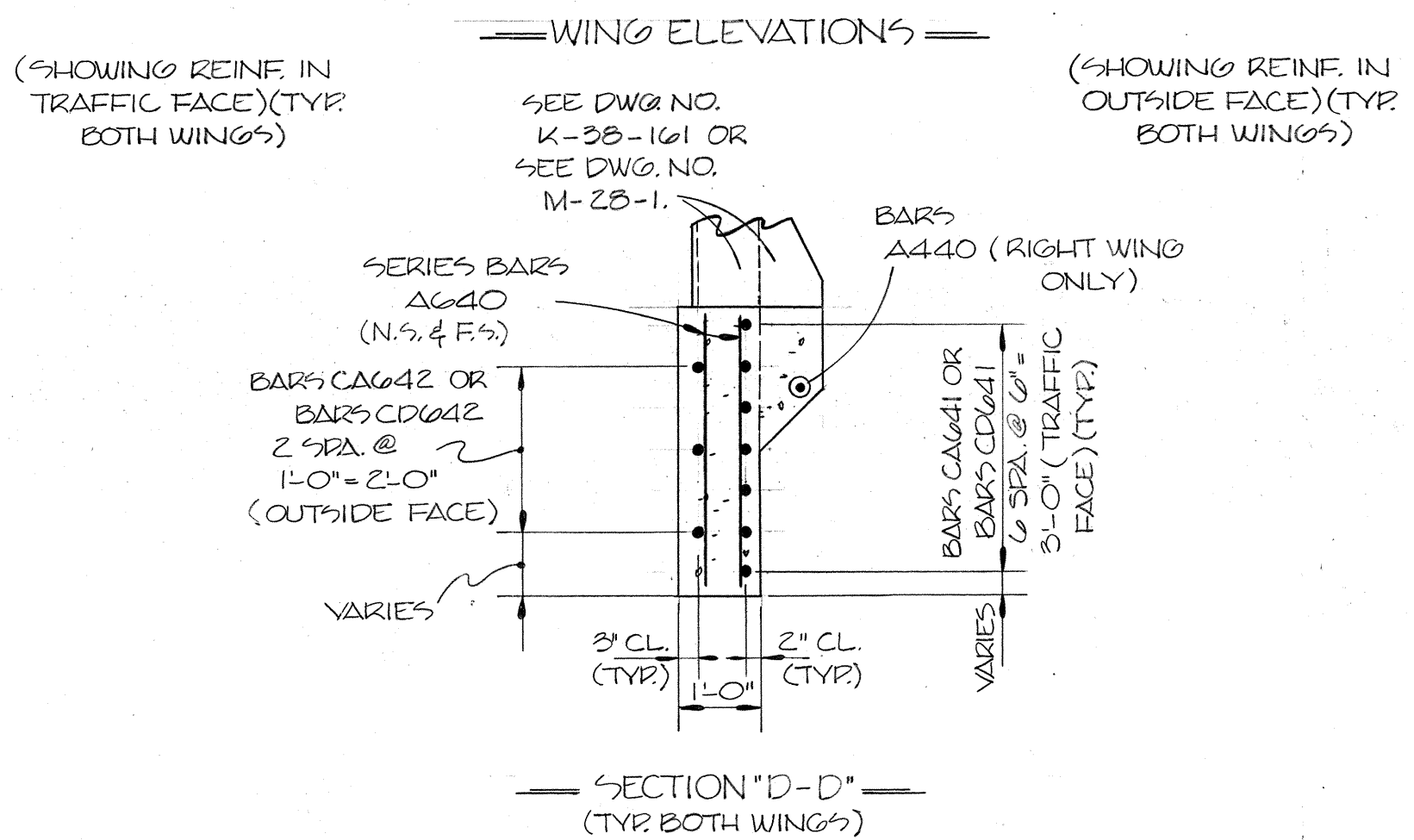
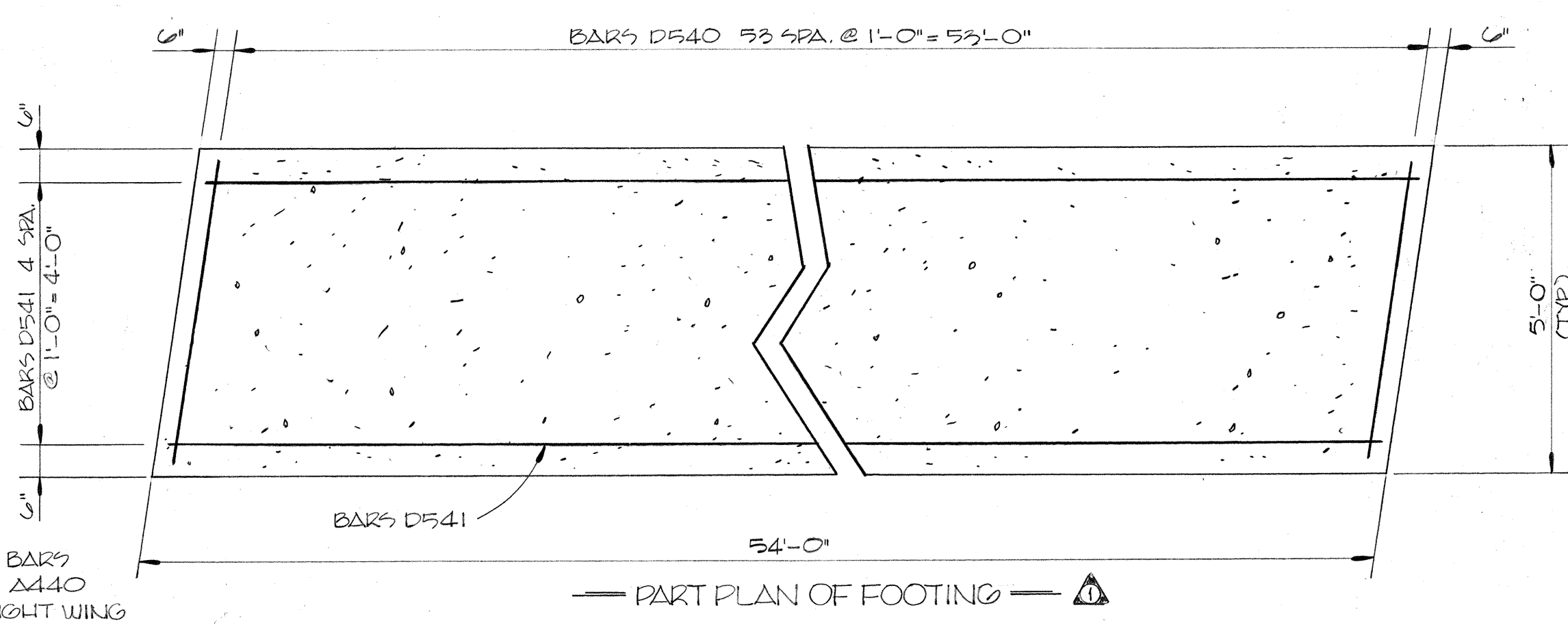
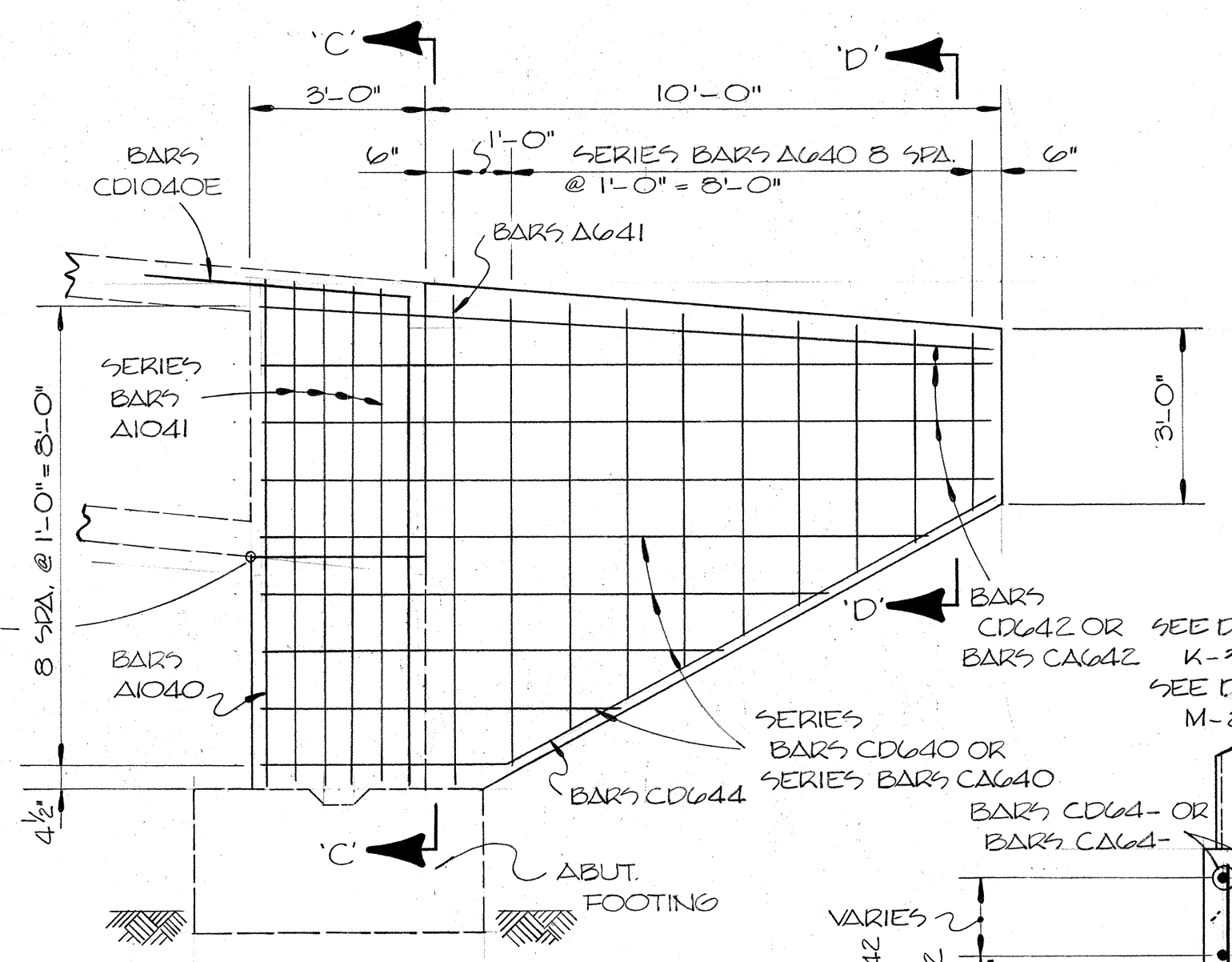
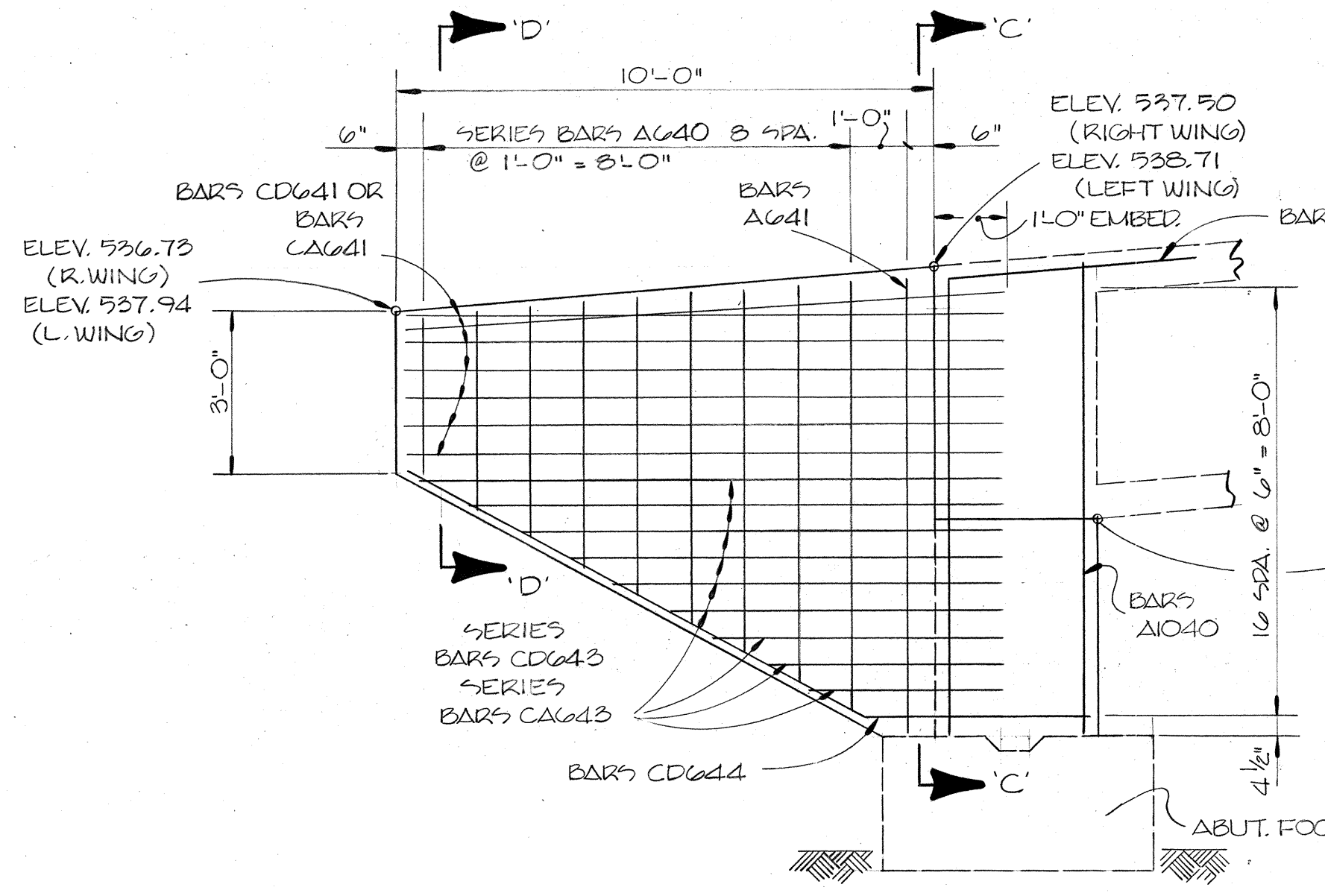
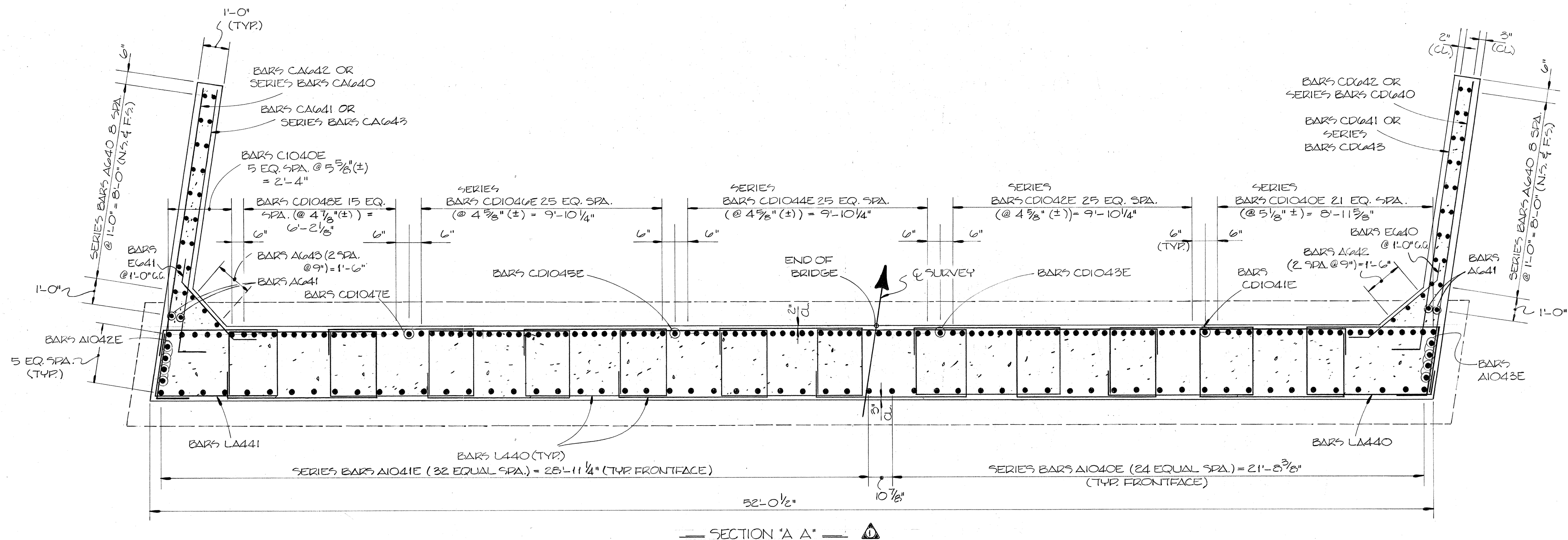
CORRECT *William L. Linnell*
 ENGINEER OF STRUCTURES
 APPROVED *Louis J. Low*
 DIRECTOR OF HIGHWAYS

MICROFILMED

DESIGNED BY R. HENDERSON DATE 3/81
 DRAWN BY DONNA BRILEY & CO. DATE 3/81
 SUPERVISED BY FIELDS & SMITH DATE 3/81
 CHECKED BY R. HENDERSON DATE 5/81

PROJECT NO.	YEAR	SHEET NO.
I-440-4(44)212	1981	90

REVISIONS			
NO.	DATE	BY	BRIEF DESCRIPTION
1	5-11-81	AMF	GENERAL REVISIONS



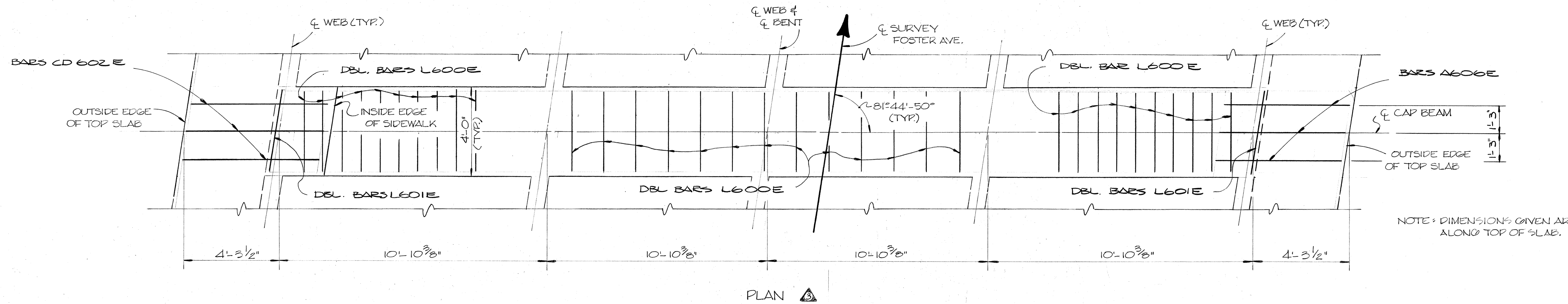
DESIGNED BY R. HENDERSON DATE 3-81
 DRAWN BY DONNA BRILEY DATE 3-81
 SUPERVISED BY J. FIELDS & A. SMITH DATE 3-81
 CHECKED BY R. HENDERSON DATE 5-81

STATE OF TENNESSEE
 DEPARTMENT OF TRANSPORTATION
 BUREAU OF HIGHWAYS
 ABUTMENT NO. 2 DETAILS
 FOSTER AVENUE OVER
 INTERSTATE 440
 STATION 447+66.45
 DAVIDSON COUNTY
 1981

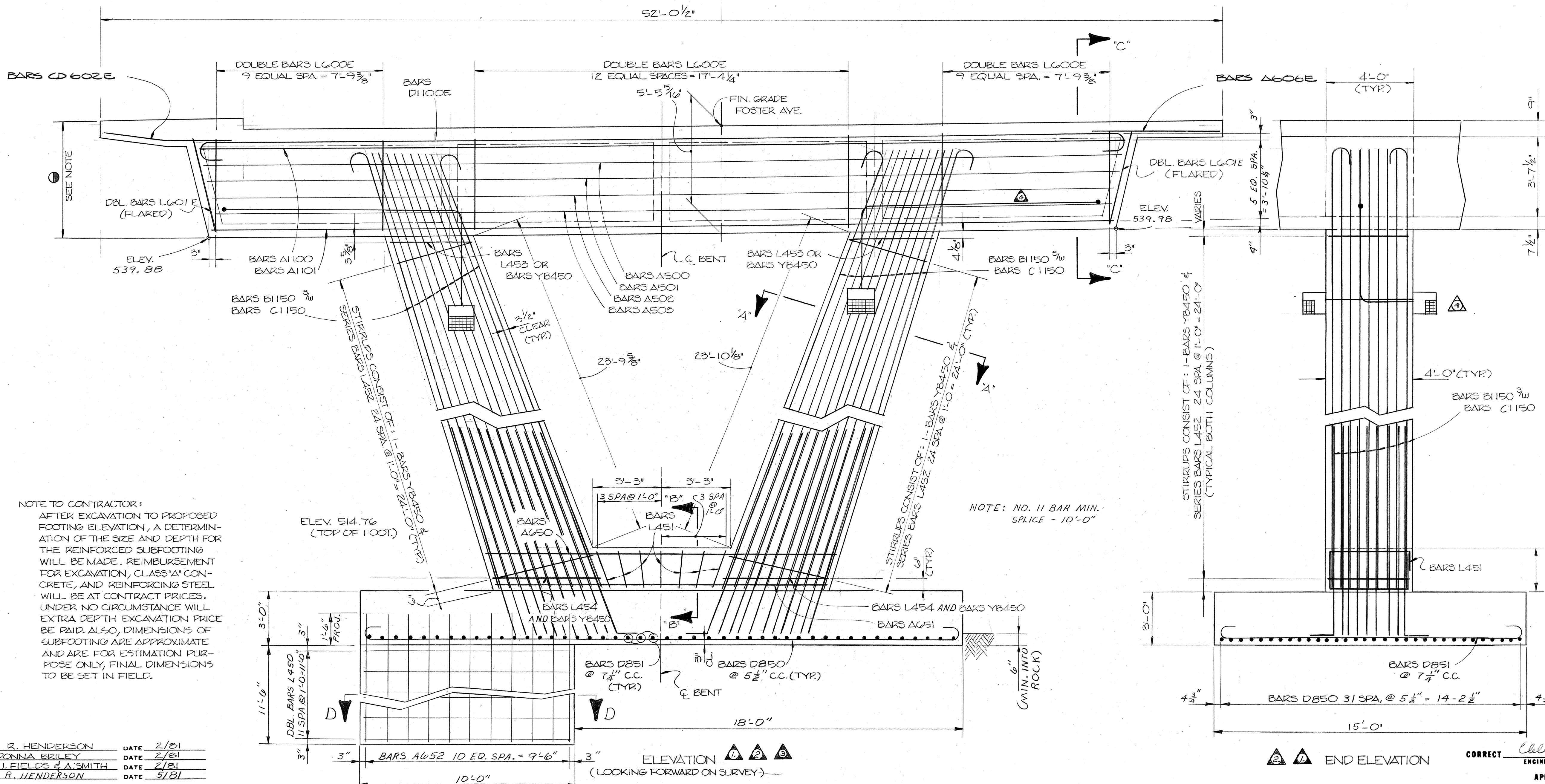
CORRECT *Celestine S. Lowell*
 ENGINEER OF STRUCTURES
 APPROVED *James E. Grand*
 DIRECTOR OF HIGHWAYS

PROJECT NO.	YEAR	SHEET NO.
I-440-444)212	1981	91

REVISIONS			
NO.	DATE	BY	BRIEF DESCRIPTION
1.	5-11-81	R.H.	GENERAL REVISIONS
2.	12-18-81	A.M.S.	GENERAL REVISIONS
3.	2-10-82	A.M.S.	ADDED DETAILS SHOWING A606E, CD602E
4.	1-25-83	R.M.D.	LIGHTING DETAILS



NOTE: DIMENSIONS GIVEN ARE ALONG TOP OF SLAB.



NOTE TO CONTRACTOR:
 AFTER EXCAVATION TO PROPOSED FOOTING ELEVATION, A DETERMINATION OF THE SIZE AND DEPTH FOR THE REINFORCED SUBFOOTING WILL BE MADE. REIMBURSEMENT FOR EXCAVATION, CLASS 'A' CONCRETE, AND REINFORCING STEEL WILL BE AT CONTRACT PRICES. UNDER NO CIRCUMSTANCE WILL EXTRA DEPTH EXCAVATION PRICE BE PAID. ALSO, DIMENSIONS OF SUBFOOTING ARE APPROXIMATE AND ARE FOR ESTIMATION PURPOSE ONLY, FINAL DIMENSIONS TO BE SET IN FIELD.

NOTE: COLUMN STEEL TO EXTEND 4'-0\"/>

NOTE: CAP BEAM TO BE POURED IN SEQUENCE WITH SUPERSTRUCTURE. ALL QUANTITIES FOR CAP BEAM TO BE INCLUDED IN SUPERSTRUCTURE QUANTITIES.

ESTIMATED QUANTITIES	
CLASS 'A' CONCRETE (C.Y.)	REINF. STEEL (LBS.)
147.1	24,862

THESE QUANTITIES INCLUDE A 10'-0\"/>

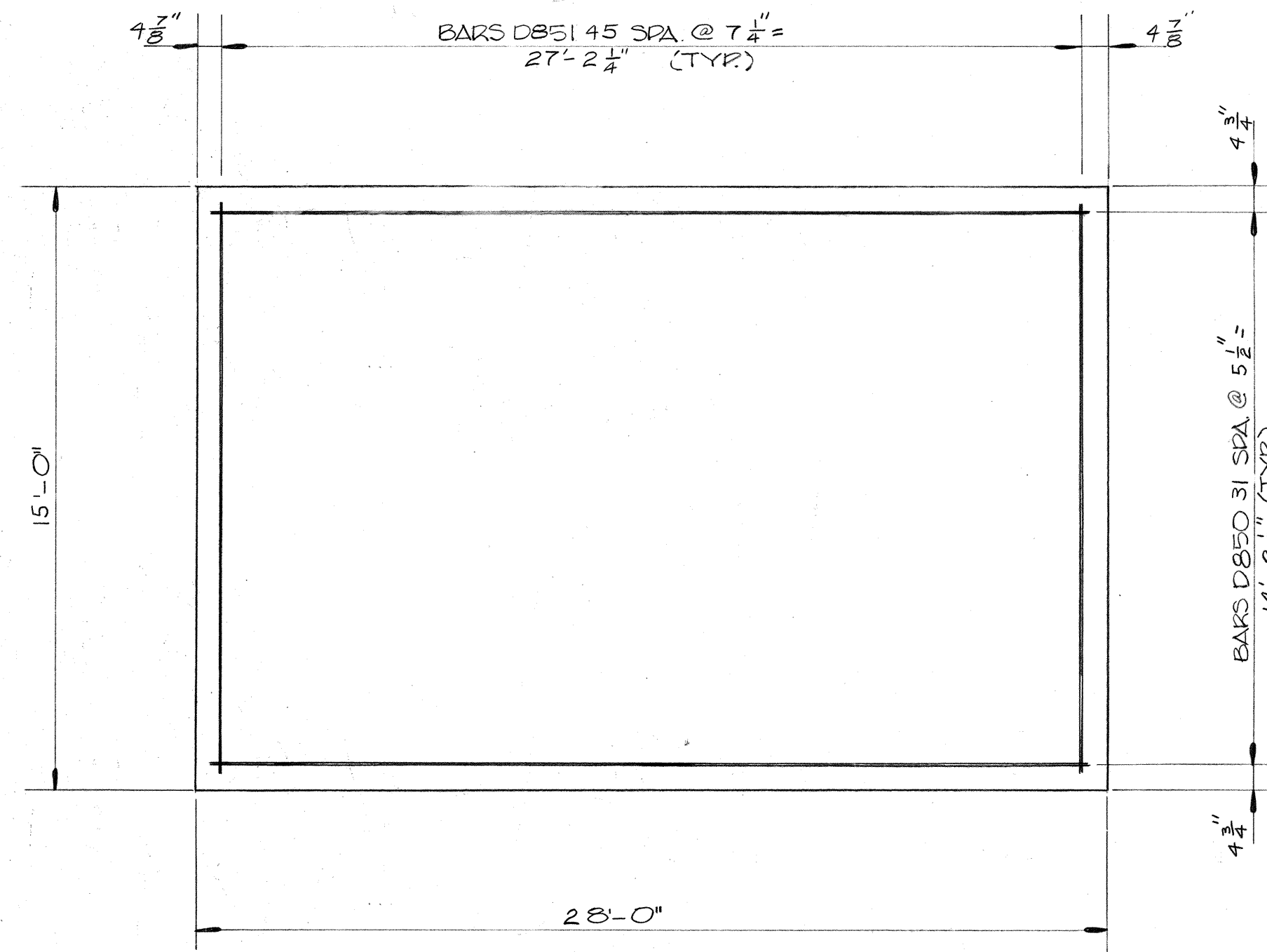
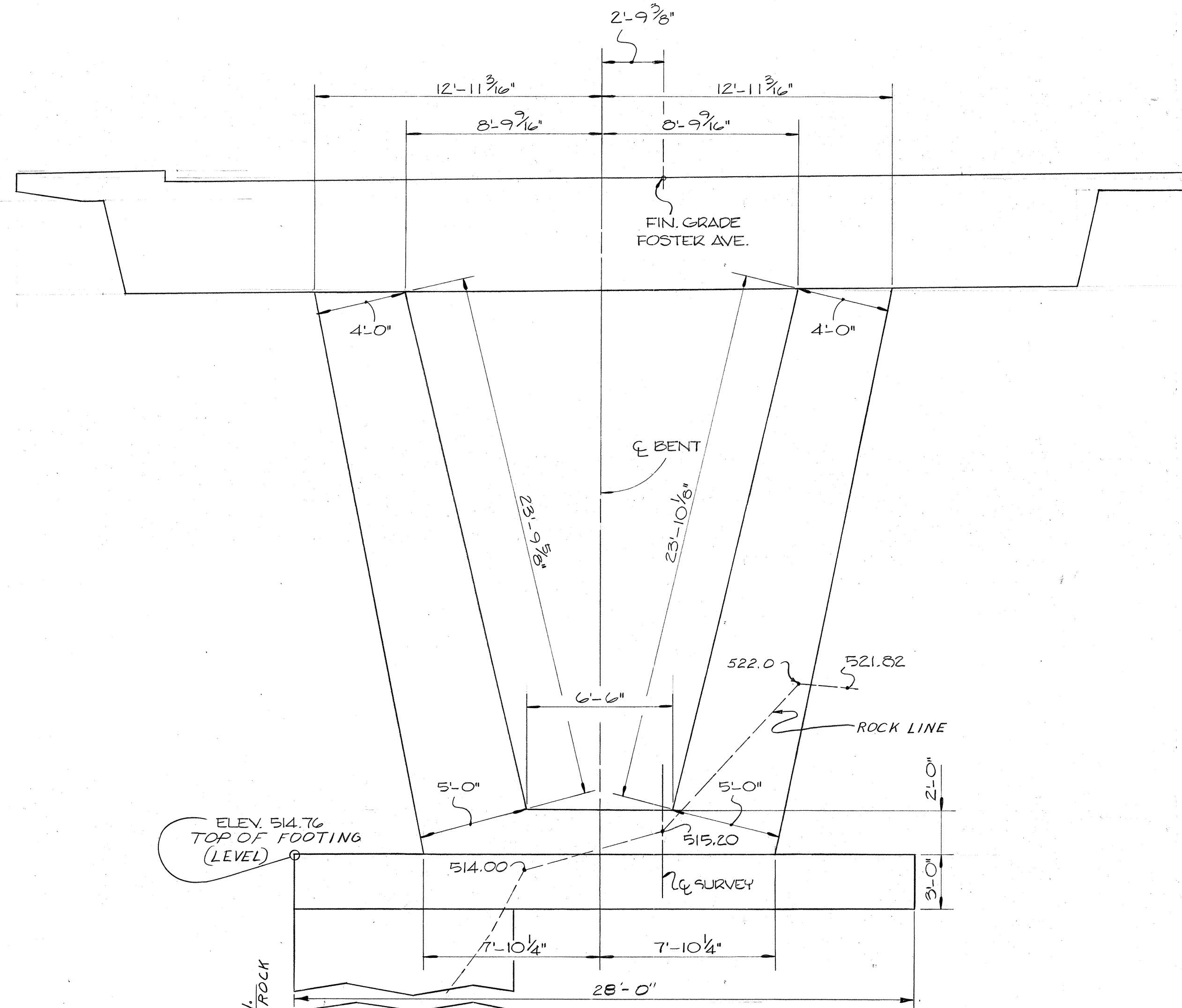
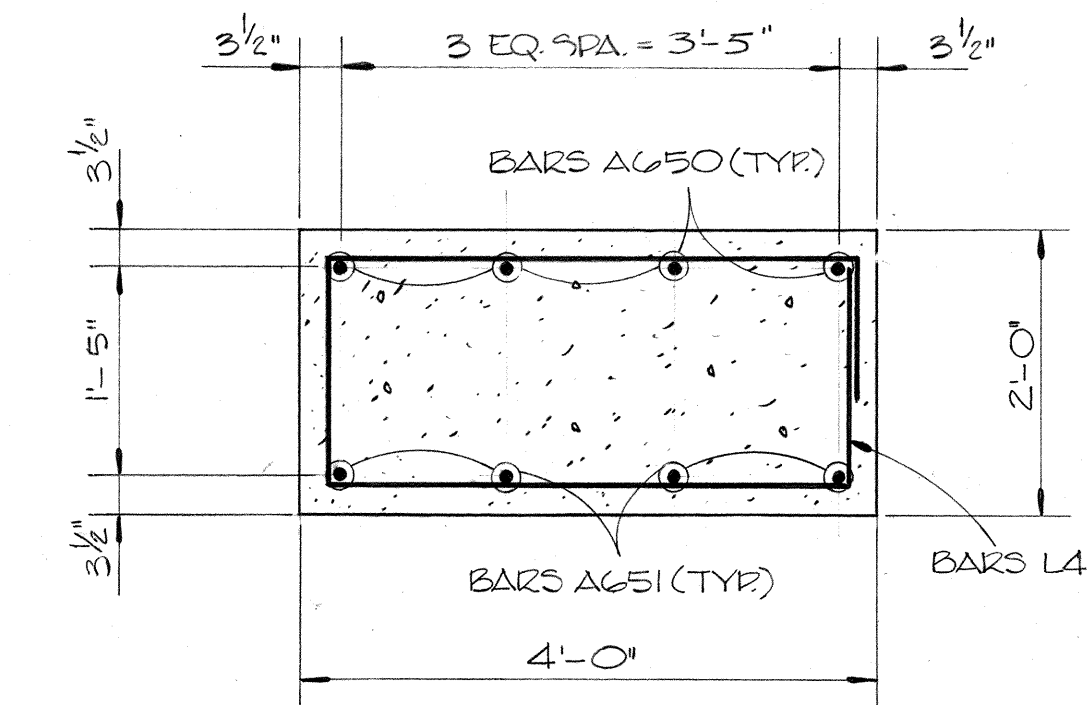
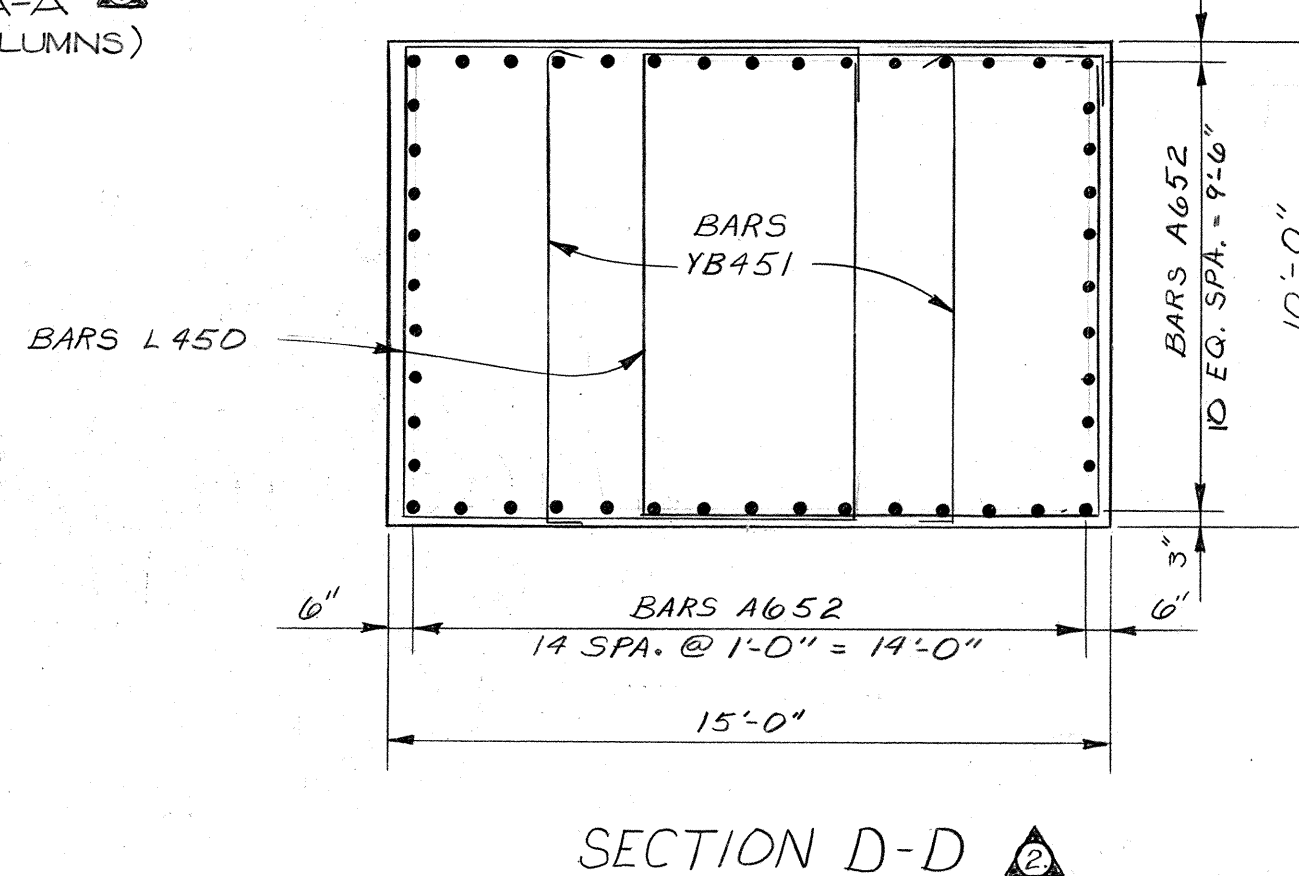
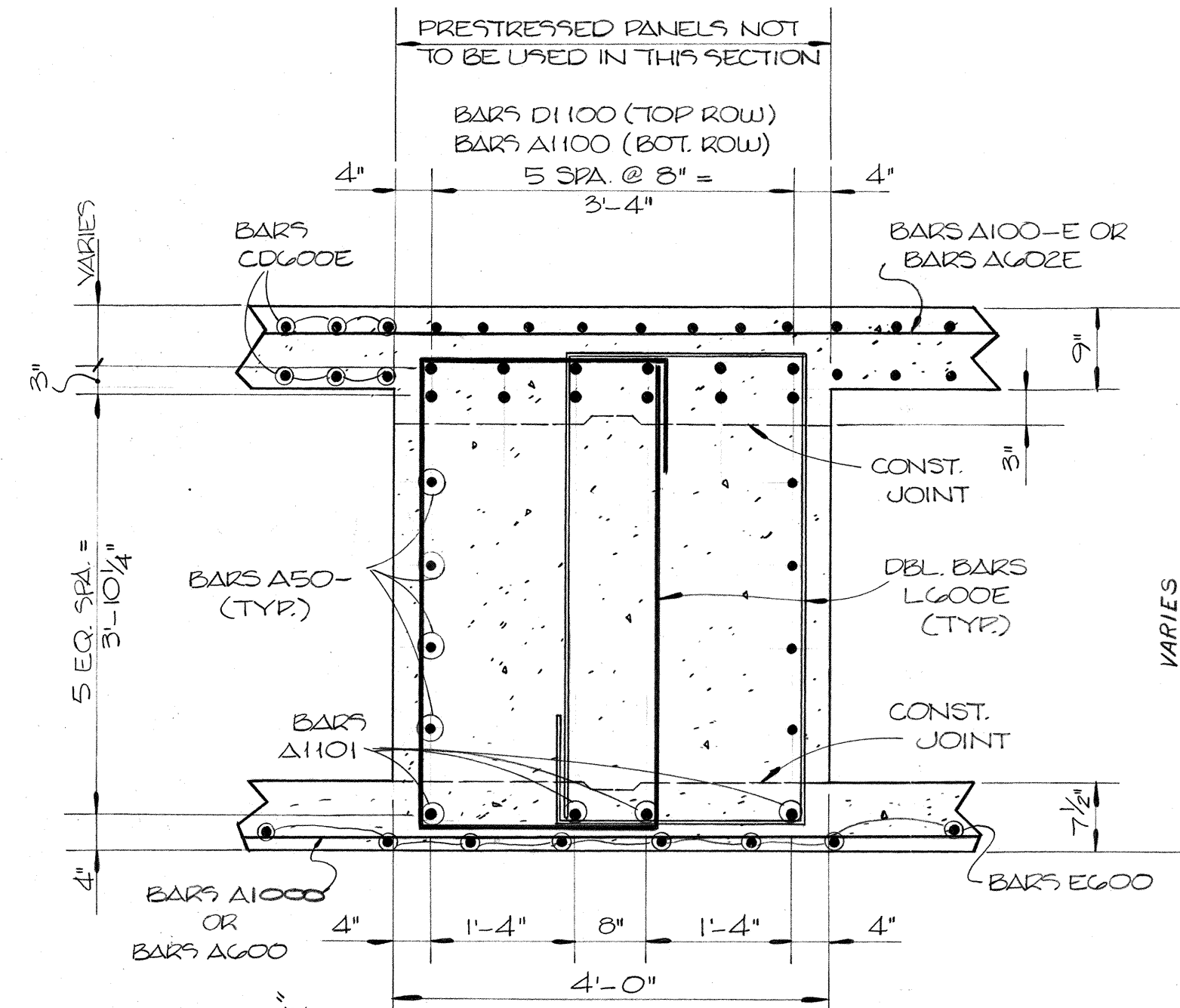
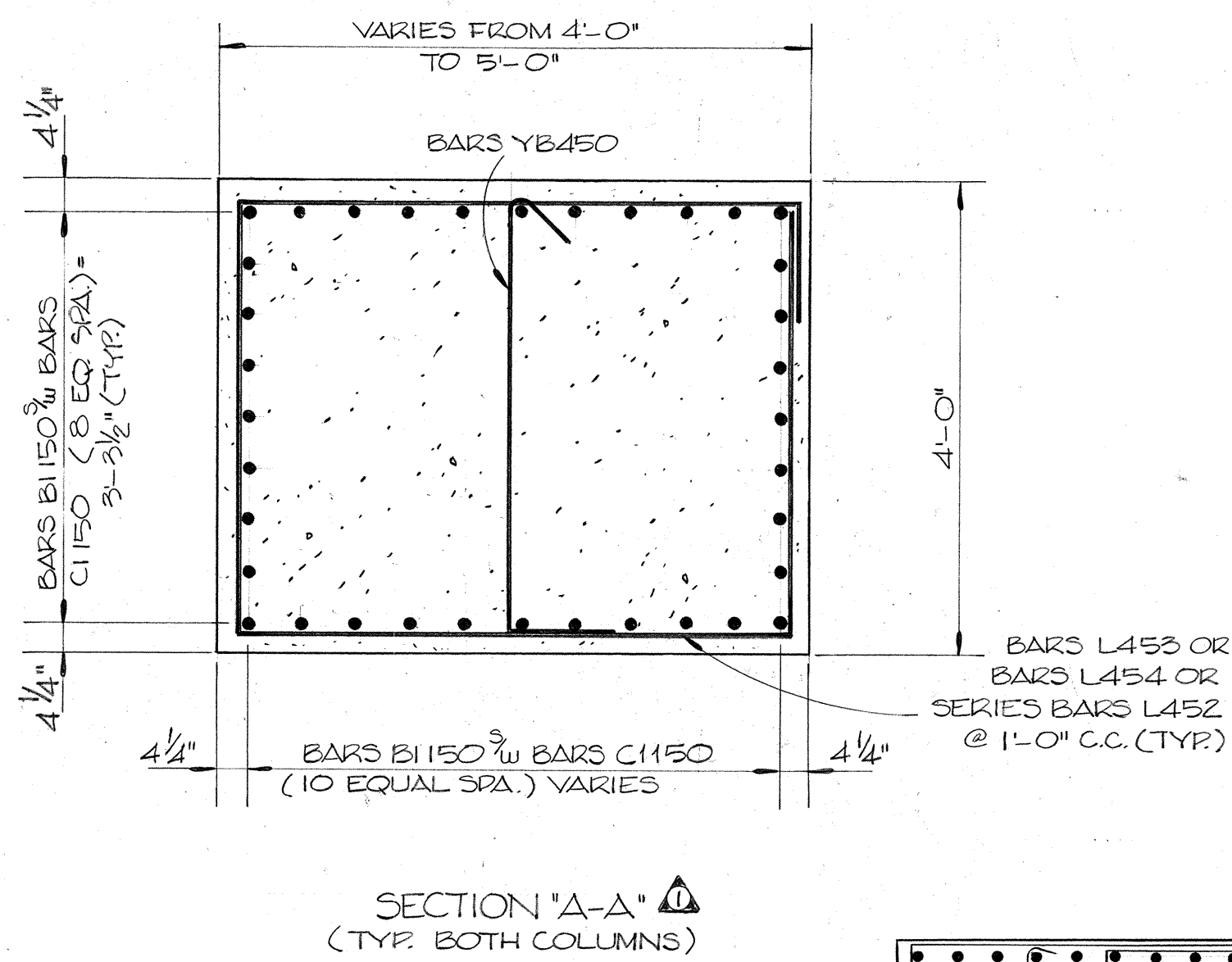
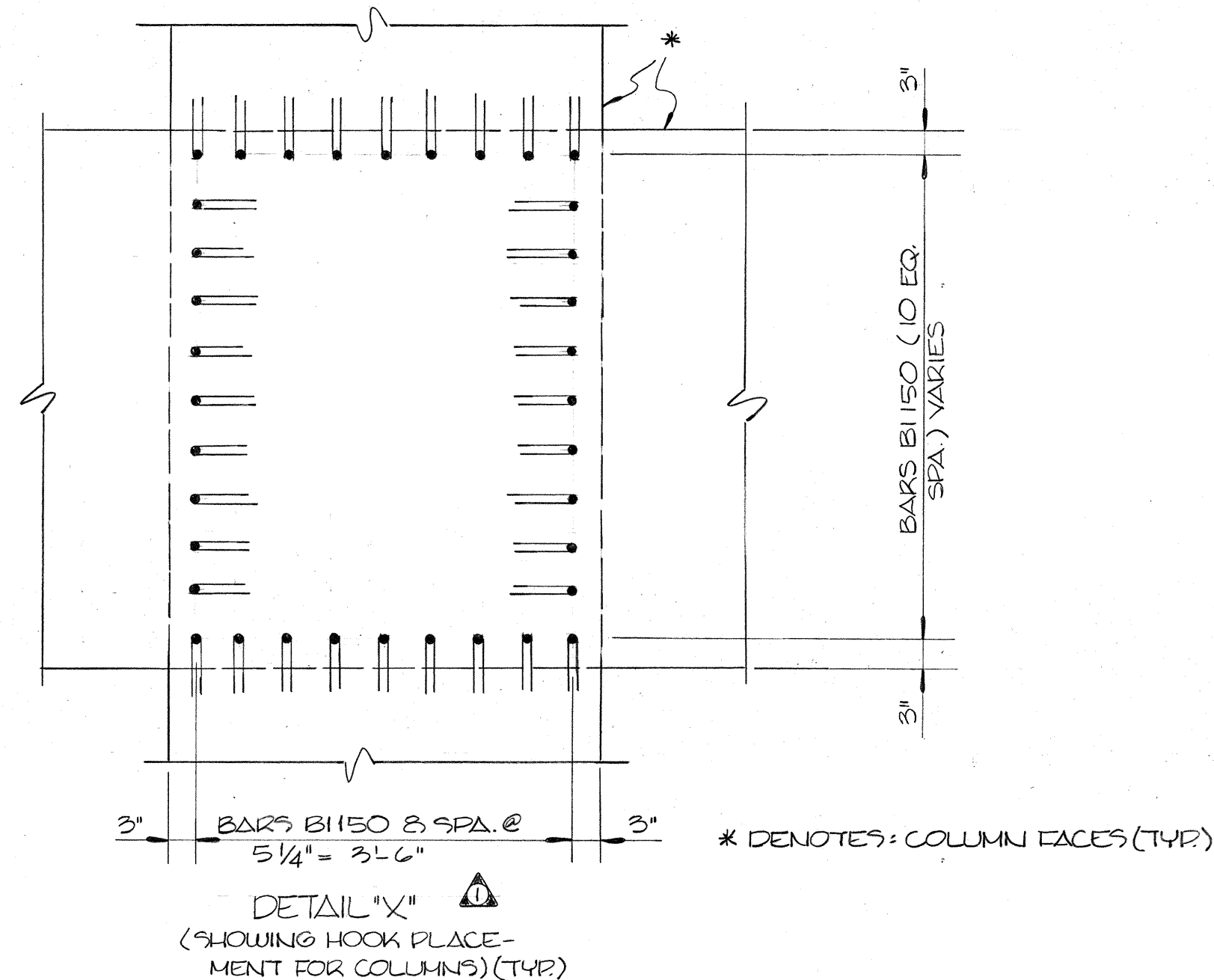
STATE OF TENNESSEE
 DEPARTMENT OF TRANSPORTATION
 BUREAU OF HIGHWAYS
 BENT
 FOSTER AVENUE OVER
 INTERSTATE 440
 STATION 447+66.48
 DAVIDSON COUNTY
 1981

DESIGNED BY R. HENDERSON DATE 2/81
 DRAWN BY DONNA BRILEY DATE 2/81
 SUPERVISED BY J. FIELDS & A. SMITH DATE 2/81
 CHECKED BY R. HENDERSON DATE 5/81

CORRECT
 Chilton L. Louall
 ENGINEER OF STRUCTURES
 APPROVED
 Director of Highways

PROJECT NO.	YEAR	SHEET NO.
I-440-4(44)212	1981	92

REVISIONS				
NO.	DATE	BY	BRIEF DESCRIPTION	
1	5/11/81	AMS	GEN. REVISIONS	
2	12-18-81	AMS	GEN. REVISIONS	



DESIGNED BY R. HENDERSON DATE 2/81
 DRAWN BY DONNA BRILEY DATE 2/81
 SUPERVISED BY FIELDS & SMITH DATE 2/81
 CHECKED BY R. HENDERSON DATE 2/81

STATE OF TENNESSEE
 DEPARTMENT OF TRANSPORTATION
 BUREAU OF HIGHWAYS
 BENT DETAILS
 FOSTER AVENUE OVER
 INTERSTATE 440
 STATION 447+66.48
 DAVIDSON COUNTY
 1981

CORRECT *Clifton J. Lovell*
 ENGINEER OF STRUCTURES
 APPROVED *Lewis J. Jones*
 DIRECTOR OF HIGHWAYS

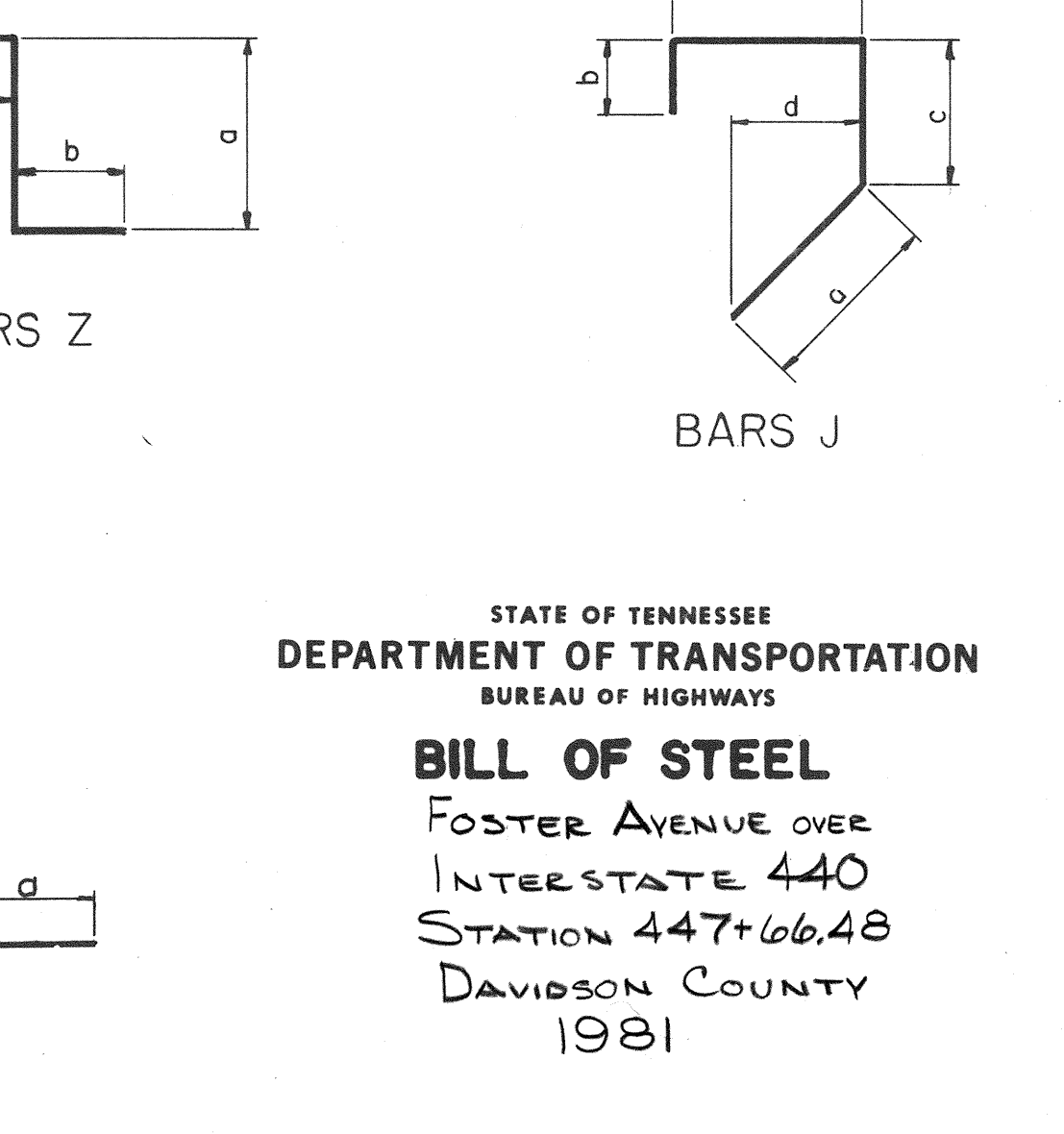
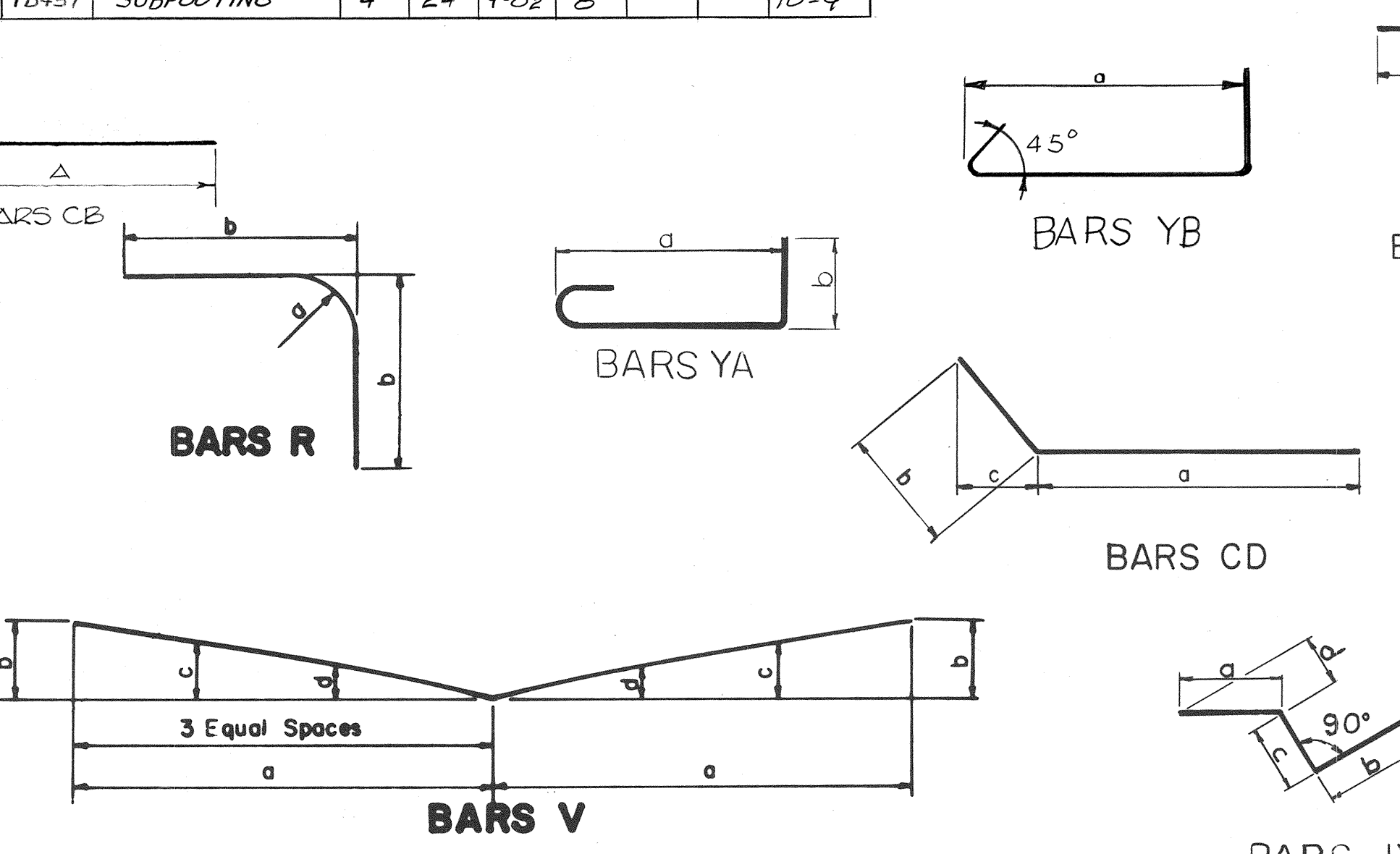
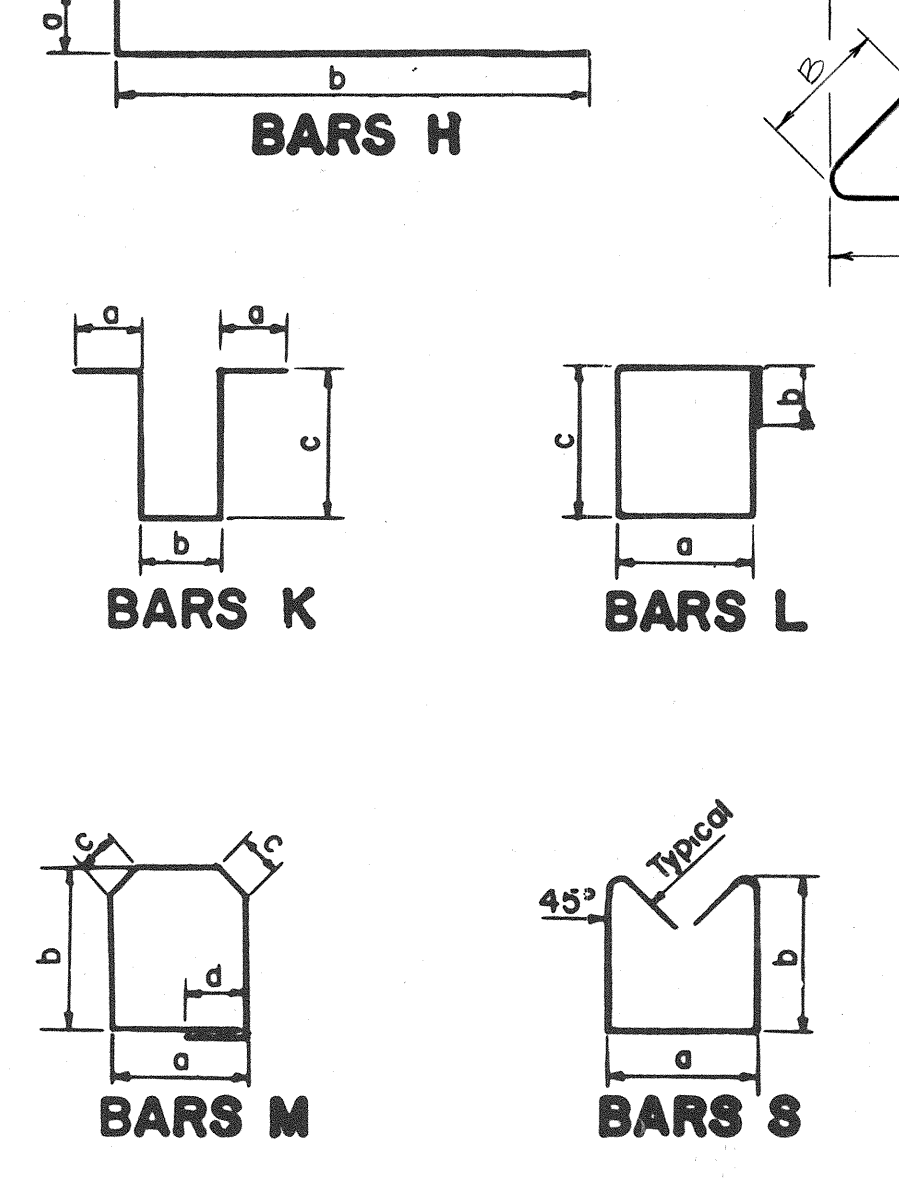
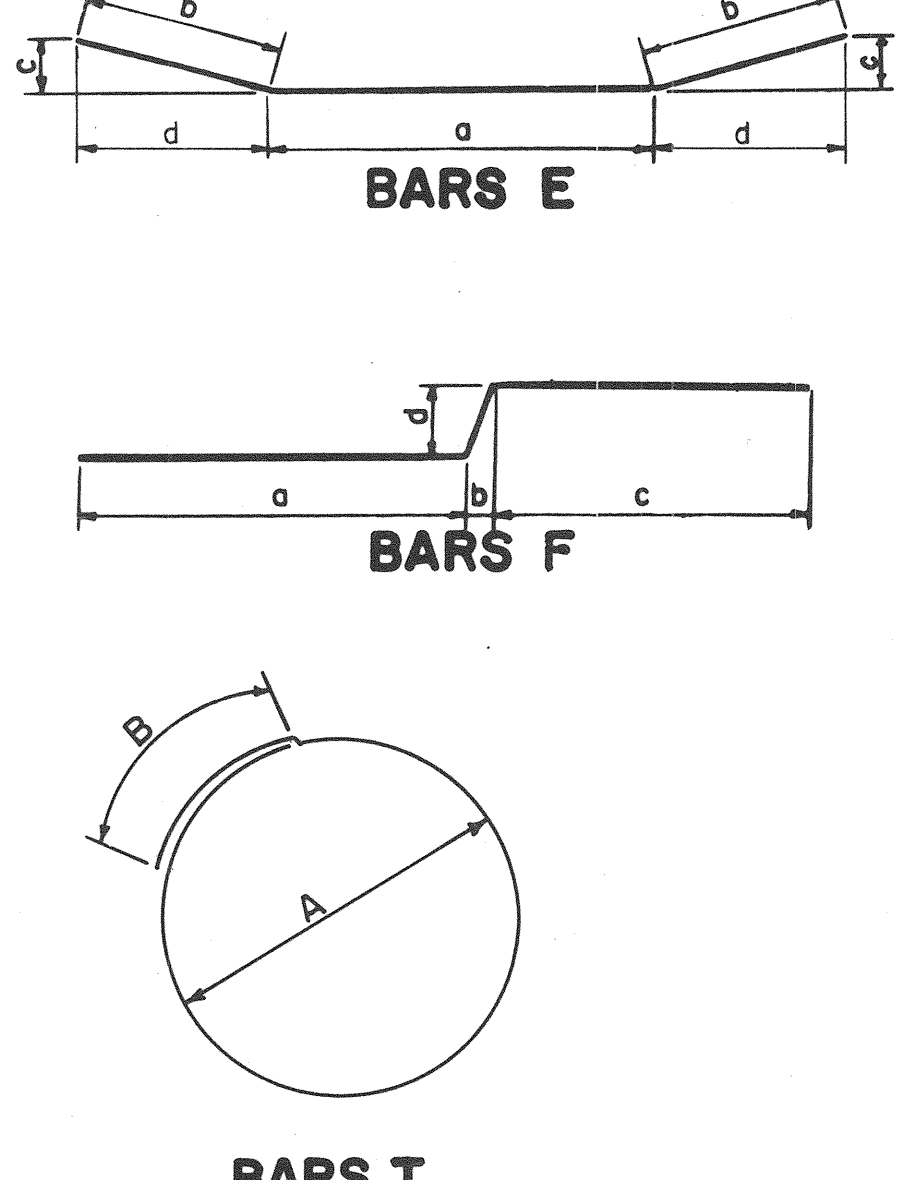
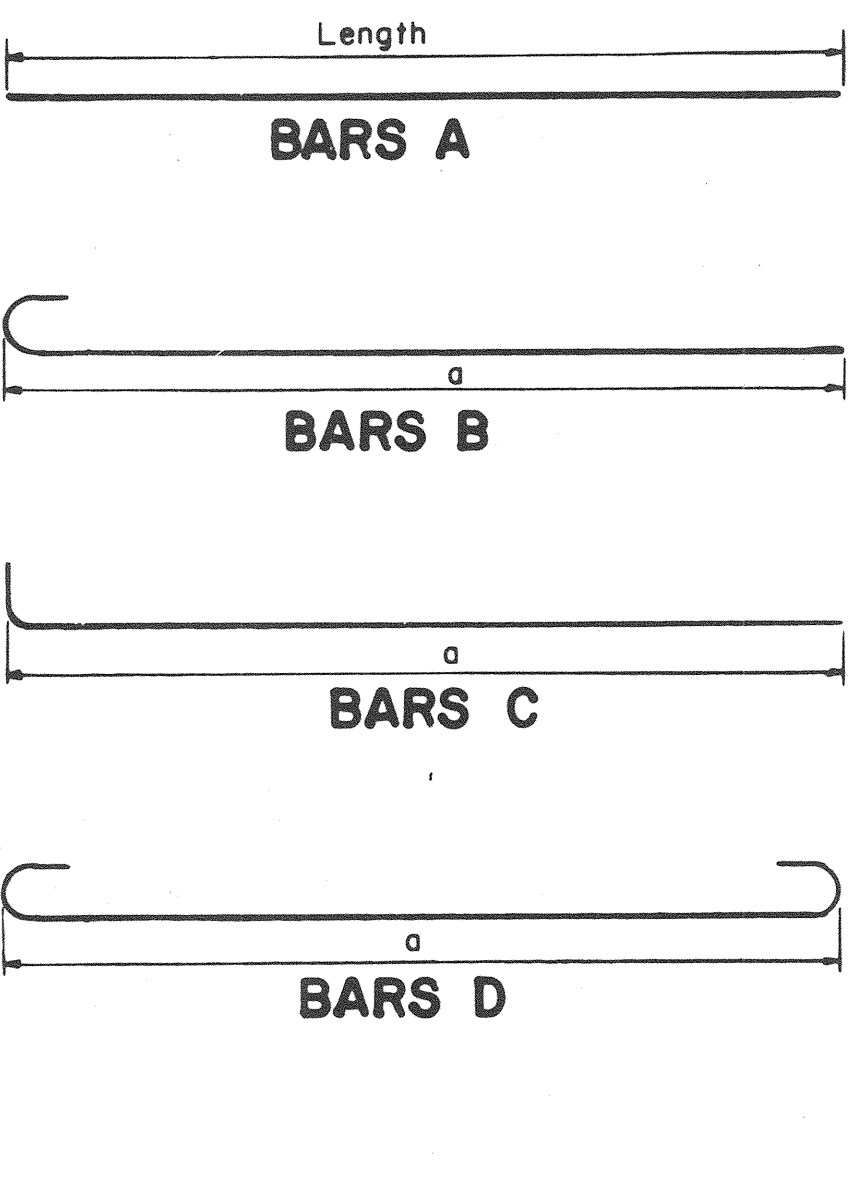
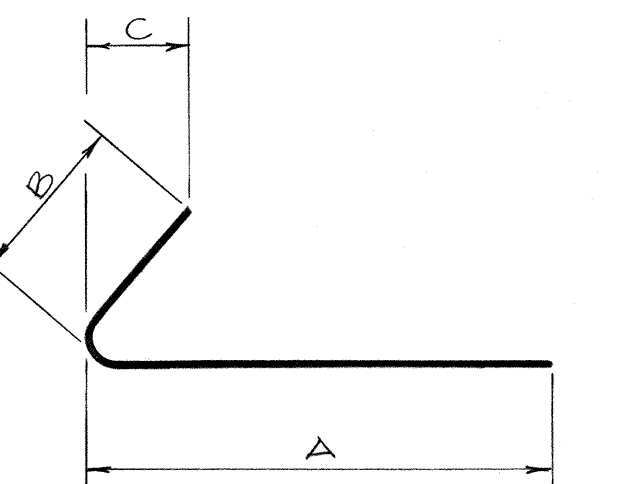
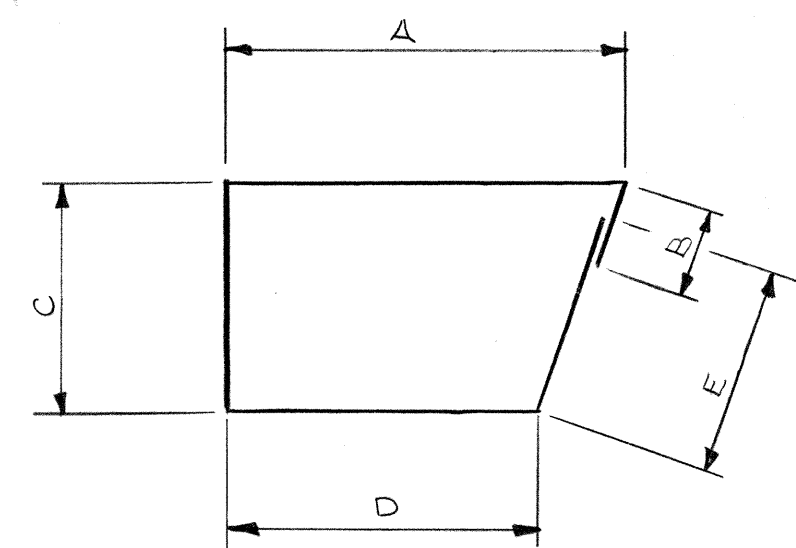
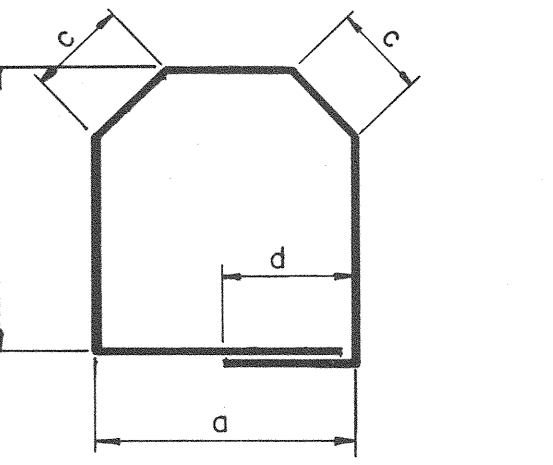
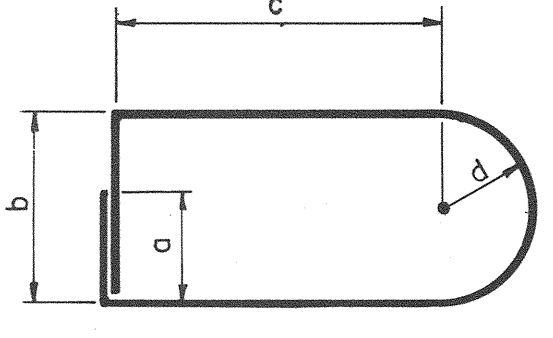
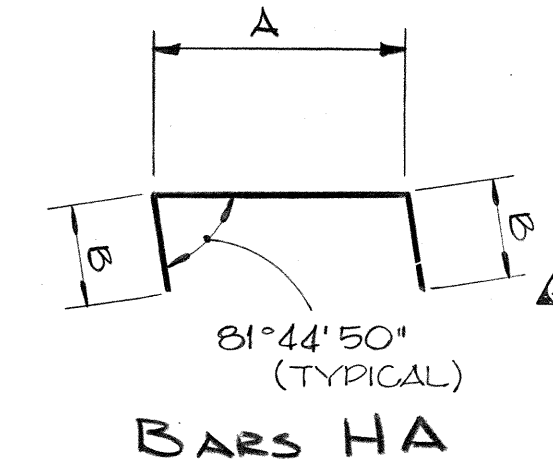
BILL OF STEEL

CONST. NO. 19015-3110-44

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
3	TEX.	I-440-4(44)212	1981	93	

REVISIONS			
NO.	DATE	BY	BRIEF DESCRIPTION
1	12-18-81	A.S.	GENERAL REVISIONS
2	2-10-82	A.M.S.	ADDED BARS ABOVE C, DEGREE
3	10-14-83	C.M.K.	ADDED BAR H500E

SUPERSTRUCTURE (EPOXY COATED)											SUPERSTRUCTURE (EPOXY COATED) (CONT'D)											SUPERSTRUCTURE (CONT'D)											ABUTMENT No. 1										
BAR	LOCATION	SIZE	NO REQ'D	BENDING DIMENSIONS				LENGTH	BAR	LOCATION	SIZE	NO REQ'D	BENDING DIMENSIONS				LENGTH	BAR	LOCATION	SIZE	NO REQ'D	BENDING DIMENSIONS				LENGTH	BAR	LOCATION	SIZE	NO REQ'D	BENDING DIMENSIONS				LENGTH								
				a	b	c	d						a	b	c	d						a	b	c	d						a	b	c	d									
AG02E	SDWLK & SLAB	6	442					30'-0"	L600E	BENT CAP	6	60	2'-3"	1'-0"	4'-1 1/4"	13'-8"	C600	WEBS	6	1188	3'-6 1/2"				4'-6"	A440	RDWY. BKT	4	1					49'-6"									
AG03E	SDWLK & SLAB	6	48					22'-2"	L601E	BENT CAP	6	4	2'-3"	1'-0"	4'-2 1/8"	13'-11"	C601	BOTTOM SLAB	6	10	18'-3"				19'-2"	A441	PAR. SUPPORT	4	1					34'-1"									
AG04E	SDWLK & SLAB	6	48					7'-8"										AS40	A. FOOTING	6	30					53'-6"																	
AG05E	SIDEWALK	6	16					6'-2"										CD1000	BOTTOM SLAB	10	14	35'-8"	4'-8"	3 1/8"		38'-3"	AG40	A. WALL	6	4					51'-7"								
AG06E	TOP SLAB	6	3					5'-8"										CD1001	BOTTOM SLAB	10	32	26'-8"	4'-8"	3 1/8"		31'-3"	AG41	W. FOOTING	6	12					2'-8"								
A1000E	TOP SLAB	10	138					60'-0"										CB1002	BOTTOM SLAB	10	32	27'-9"	4'-8"	4 3/8"		32'-4"	AG42	W. FOOTING	6	8					5'-2"								
A1001E	TOP SLAB	10	35					41'-0"										CB1003	BOTTOM SLAB	10	14	18'-9"	4'-8"	4 3/8"		23'-4"	AG43	A. WING	6	3					25'-3"								
A1002E	TOP SLAB	10	35					26'-0"										CDG01	WEBS	6	792	3'-6"	1'-0"	2 3/4"		4'-6"	AG44	A. WING	6	3					24'-10"								
C600E	WEBS	6	1188	3'-6 1/2"				4'-6"	△ SUPERSTRUCTURE											AG45	RIGHT WING	6	2					LENGTH VARIES FROM 25'-5 5/8" TO 25'-0" IN INCRE OF 5 3/8" (10 BARS)															
C602E	SIDEWALK	6	7	30'-0"				30'-11"	AS00	BENT CAP	5	2				43'-5"	LA00	END WALL	4	5	5'-4 1/2"	1'-0"	2'-7"	5'-0"	27 3/8"	10'-5"	AG46	RIGHT WING	6	2					LENGTH VARIES FROM 3'-2 3/4" TO 25'-2 3/8" IN INCRE OF 1'-1 1/2" (20 BARS)								
C603E	ENDWALL	6	52	4'-1"				5'-0"	AS01	BENT CAP	5	2				43'-1"	LA01	END WALL	4	5	4'-7 1/2"	1'-0"	2'-7"	4'-3"	2'-7 1/8"	14'-11"	AG47	LEFT WING	6	2					LENGTH VARIES FROM 3'-2 3/4" TO 25'-2 3/8" IN INCRE OF 1'-1 1/2" (20 BARS)								
C605E	SIDEWALK	6	7	6'-2"				7'-1"	AS02	BENT CAP	5	2				42'-8"	△ BENT											AG48	LEFT WING	6	2					LENGTH VARIES FROM 26'-5 5/8" TO 26'-0" IN INCRE OF 5 3/8" (10 BARS)							
C900E	ENDWALL	9	103	7'-6"				9'-0"	AS03	BENT CAP	5	2				42'-4"	AG50	COLUMN	6	4					16'-1"	AG51	COLUMN	6	4					15'-4"									
CI000E	TOP SLAB	10	46	26'-8"				28'-5"	AS04	RDWY. BKT.	5	1				49'-6"	AG52	SUBFOOTING	6	48					13'-3"	B1150	COLUMBUS	11	72	28'-9"				31'-4"									
CR600E	WEBS	6	396	3'-6"	1'-0"	2 3/4"		4'-6"	A600	BOTTOM SLAB	6	48				30'-0"	C1150	FOOTING	11	72	12'-10"				14'-9"	D850	FOOTING	8	32	27'-6"				29'-4"									
CD600E	TOP SLAB	6	876	48'-11"	2'-9"	2'-8"		51'-8"	A601	WEBS	6	120				60'-0"	D851	FOOTING	8	46	14'-6"				16'-4"	A1140	ABUT. WALL	11	1					LENGTH VARIES FROM 19'-6 1/2" TO 19'-10" IN INCRE OF 6 1/2" (41 BARS)									
CD601E	WEBS	6	396	3'-6"	1'-0"	2 3/4"		4'-6"	A602	WEBS	6	40				30'-6"	L450	SUBFOOTING	4	24	9'-2"	1'-0"	9'-6"		38'-6"	A1141	ABUT. WALL	11	61					24'-10"									
CD602E	TOP SLAB	6	3	3'-0"	2'-9"	2'-5"		5'-8"	A603	WEBS (OPT.)	6	90				4'-0"	L451	COLUMN	4	7	3'-7"	1'-0"	1'-7"		11'-2"	A1142	ABUT. WALL	11	67					10'-5"									
CD1000E	TOP SLAB	10	70	9'-9"	4'-1"	3 3/4"		13'-9"	A604	ENDWALL	6	8				51'-7"	L452	COLUMNS	4	2	15'-0"	3'-6"			395'-10"	A1143	RIGHT WING	11	2					24'-9"									
CD1001E	TOP SLAB	10	46	27'-6"	4'-1"	3 3/4"		31'-6"	A1000	BOTTOM SLAB	10	148				60'-0"	L453	COLUMN	4	2	3'-7"	1'-0"	3'-6"		15'-0"	A1144	LEFT WING	11	2					25'-11"									
DI100E	BENT CAP	11	6	42'-9 1/2"				45'-11"	A1001	BOTTOM SLAB	10	24				52'-0"	L454	COLUMN	4	2	5'-1"	1'-0"	3'-6"		18'-0"	A1145	RIGHT WING	11	2					25'-11"									
F600E	SIDEWALK	6	442	6'-2"	1/2"	1'-6"	11"	8'-6"	A1002	BOTTOM SLAB	10	24				57'-6"	YB450	COLUMN	4	54	3'-6"	8"			4'-6"	A1146	LEFT WING	11	2					25'-1"									
H500E	ENDWALL	5	52	10"	3'-6 1/2"			7'-10"	A1003	BOTTOM SLAB	10	24				23'-0"	YB451	SUBFOOTING	4	24	9'-8 1/2"	8"			10'-9"	A1147	L&R WING	11	4					24'-9"									
									A1100	BENT CAP	11	6				42'-8"										A1148	L&R WING	11	6					24'-10"									
									A1101	BENT CAP	11	4				41'-10"																											
									CS00	ENDWALL	5	50	3'-5 1/2"			4'-3"																											



REINFORCING STEEL CODE

TYPE	SIZE	SERIES
A	5	06

NOTE: Dimensions shown on this sheet are outside to outside of bar. Standard C R S. I. Hook Details Shall Apply, Except As Noted.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF HIGHWAYS
BILL OF STEEL
FOSTER AVENUE OVER
INTERSTATE 440
STATION 447+06.48
DAVIDSON COUNTY
1981

CORRECT
APPROVED
Colleen L. Swall
ENGINEER OF STRUCTURES
Lucas Evans
DIRECTOR OF HIGHWAYS

M-93-132

5-0-2

MICROFILMED

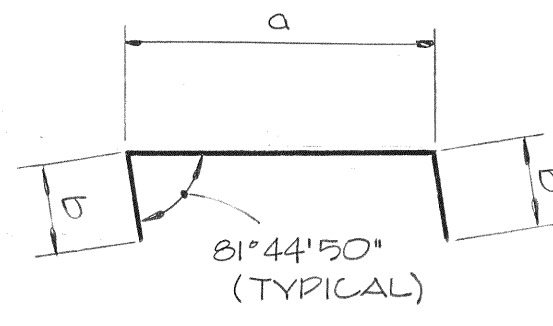
DESIGNED BY R. HENDERSON DATE 2-81
DRAWN BY KENNY FRANKENFIELD DATE 4-1-81
SUPERVISED BY JIM FIELDS DATE 4-81
CHECKED BY R. HENDERSON DATE 5-81

BILL OF STEEL

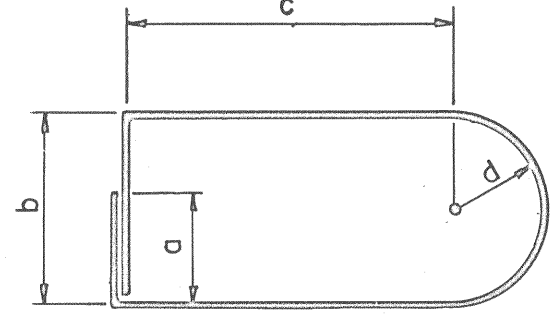
PCD. ROAD DIST. NO.	STATE	PCD. AID PROJ. NO.	FEDERAL AID PROJ. NO.	CHECK NO.	TOTAL SHEETS
3	TENN.	T-440-4(44)212	1021	94	

REVISIONS				
NO.	DATE	BY	BRIEF DESCRIPTION	
1.	12-18-81	A.S.	GEN. REV.	

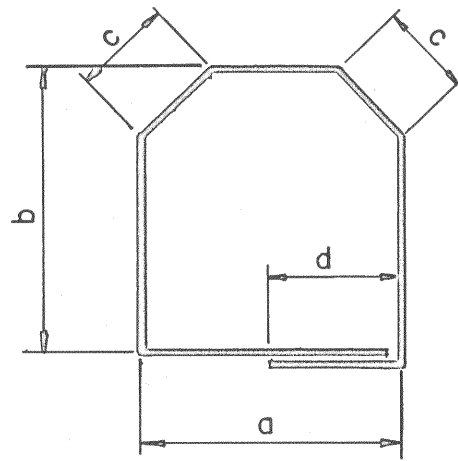
ABUTMENT No. 1 (CONT'D)										ABUTMENT No. 1 (CONT'D)										ABUTMENT No. 1 (CONT'D)										ABUTMENT No. 2															
BAR	LOCATION	SIZE	NO REQD	BENDING DIMENSIONS				LENGTH	BAR	LOCATION	SIZE	NO REQD	BENDING DIMENSIONS				LENGTH	BAR	LOCATION	SIZE	NO REQD	BENDING DIMENSIONS				LENGTH	BAR	LOCATION	SIZE	NO REQD	BENDING DIMENSIONS				LENGTH										
				a	b	c	d						a	b	c	d						a	b	c	d						a	b	c	d											
A1140	L & R WING	11	11					11'-0"	DI140	A. FOOTING	11	54	14'-6"					17'-8"	A440	PAR. SUPPORTS	4	1											9'-9"												
CG40	A. WALL & B. WALL	6	53	6'-2"				7'-1"	CB1140	RIGHT WING	11	1	2'-0"	3 3/8"					EG40	A. WALL & WING	6	25	3'-0"	1'-0"	10"	6 1/2"	5'-0"	AG40	WINGS	6	4														
CG41	FOOT. & WING	6	40	5'-0"				6'-0"	CB1141	RIGHT WING	11	1	26'-5"	2'-0"	3 3/8"				EG41	A. WALL & WING	6	24	2'-8"	1'-0"	8"	9"	4'-8"	AG41	WINGS	6	4														
CG42	L & R WING	6	4						CB1142	RIGHT WING	11	1	35'-11"	2'-0"	3 3/8"				AG42	RIGHT WING	6	3																							
CT40	LEFT WING	7	15	11'-9"				12'-11"	CB1143	RIGHT WING	11	1							AG43	LEFT WING	6	3																							
CT41	LEFT WING	7	1						CB1144	RIGHT WING	11	1																																	
CT42	LEFT WING	7	4	10'-5"				11'-7"	CD740	RIGHT WING	7	1	32'-9"	2'-2"	9 1/2"			34'-5"	LA442	A. WALL	4	20	5'-0"	1'-0"	2'-1"	4'-8"																			
CT43	LEFT WING	7	1						CD741	LEFT WING	7	1	34'-6"	2'-2"	1'-8"			36'-7"	LA443	A. WALL	4	20	4'-1"	1'-0"	2'-1"	4'-5"																			
CT44	LEFT WING	7	1	36'-3"				37'-5"	CD1140	LEFT WING	11	1	36'-5"	2'-0"	3 3/8"			38'-4"																											
CT46	LEFT WING	7	1	36'-5"				37'-7"	CD1141	LEFT WING	11	1																																	
C1140	FOOT. & WALL	11	63	11'-1"				13'-0"	CD1142	LEFT WING	11	1	35'-11"	2'-0"	3 3/8"			37'-10"																											
CB740	RIGHT WING	7	15	11'-9"	1'-2"	2"		12'-10"	CD1143	LEFT WING	11	1																																	
CB741	RIGHT WING	7	1	1'-2"	2"				CD1144	LEFT WING	11	1	33'-8"	5'-8"	4'-4 3/8"			39'-3"																											
CB742	RIGHT WING	7	4	10'-5"	1'-2"	2"		11'-6"	CD1145	LEFT WING	11	1																																	
CB743	RIGHT WING	7	1	1'-2"	2"				CD1146	RIGHT WING	11	1	33'-1"	5'-8"	4'-3 3/8"			38'-9"																											
CB744	RIGHT WING	7	1	36'-4"	1'-2"	2"		37'-5"	D740	A. FOOTING	7	54	14'-6"				16'-2"																												
CB746	RIGHT WING	7	1	36'-4 1/2"	1'-2"	2"		37'-6"																																					



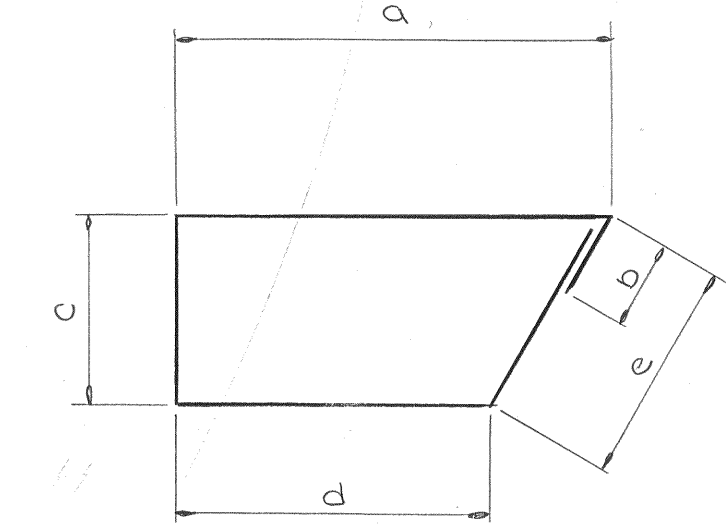
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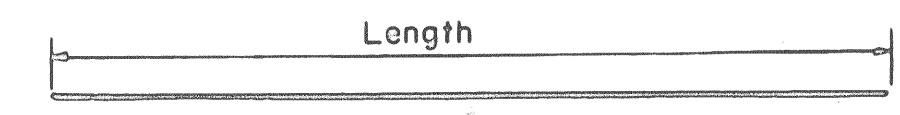
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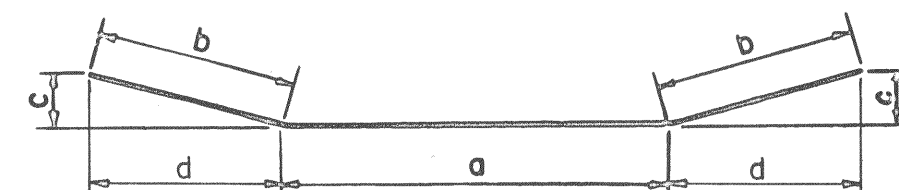
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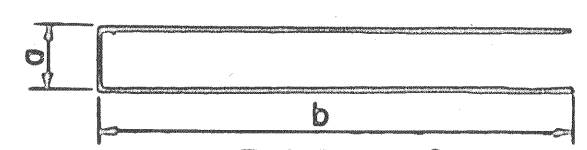
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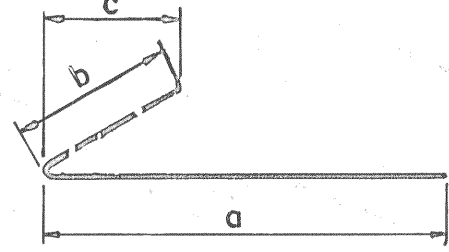
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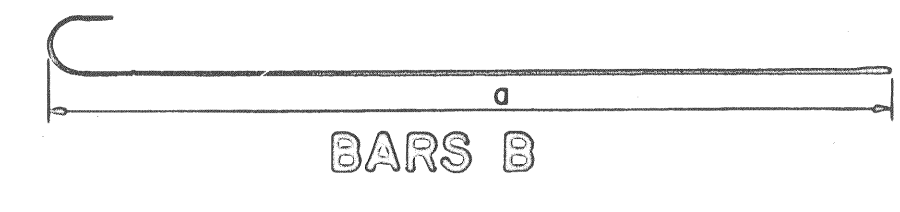
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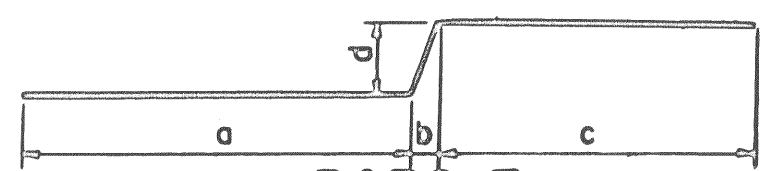
BARS H



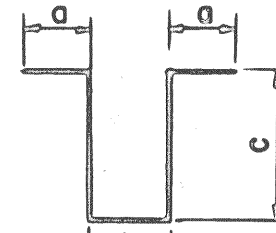
BARS CB



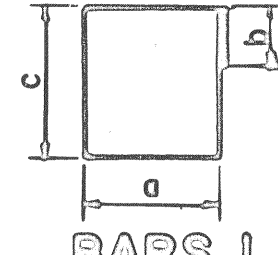
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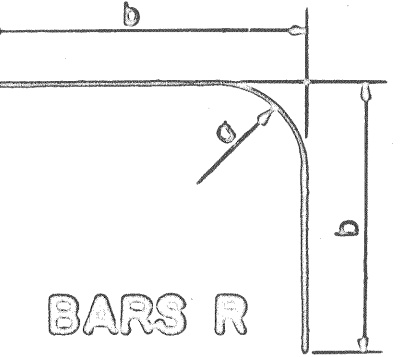
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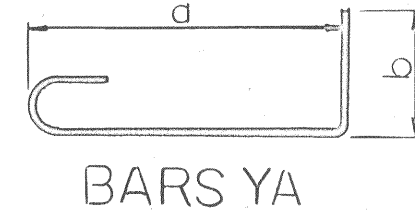
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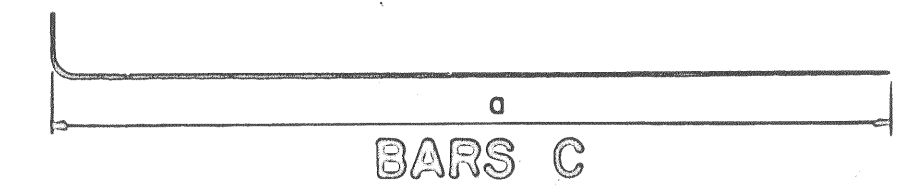
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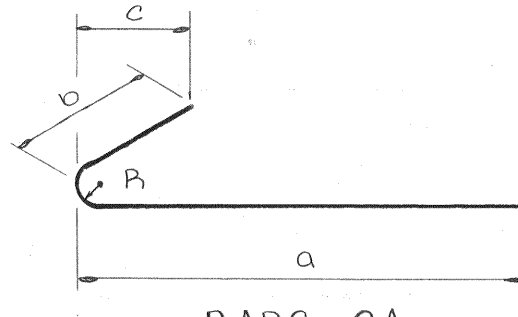
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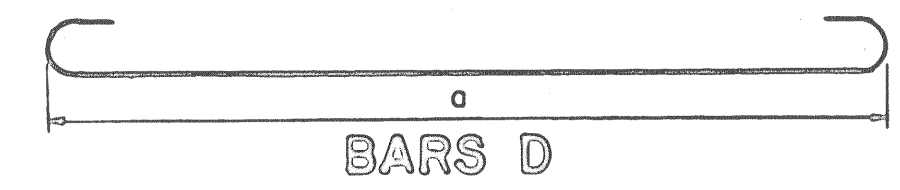
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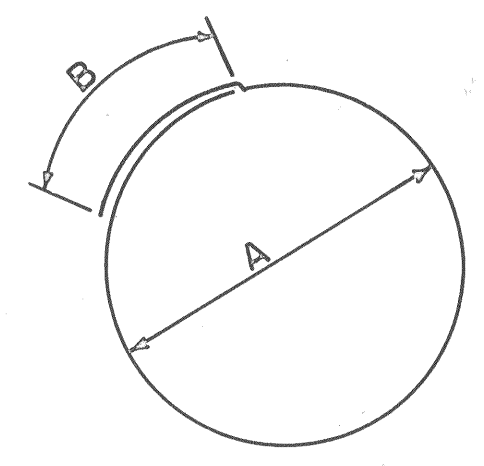
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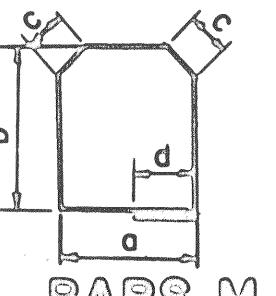
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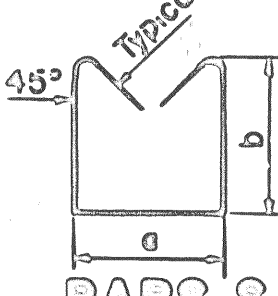
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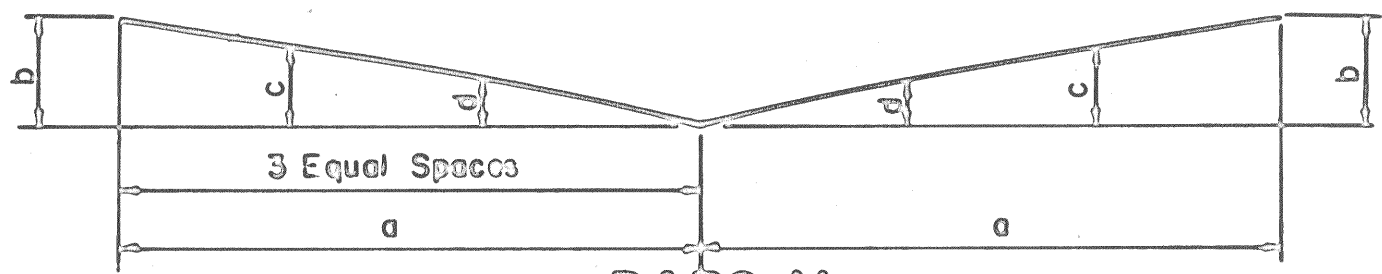
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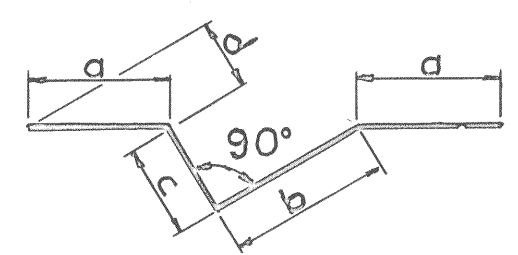
BARS M



BARS S



BARS V

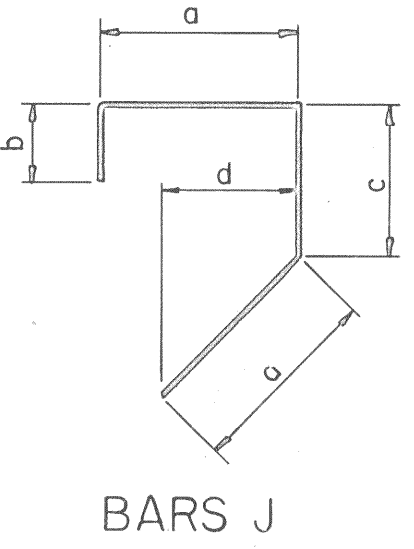


BARS JX

REINFORCING STEEL CODE

TYPE	SIZE	SERIES
A	5	OS

NOTE: Dimensions shown on this sheet are outside to outside of bar. Standard C.R.S.I. Hook Details Shall Apply, Except As Noted.



BARS J

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF HIGHWAYS

BILL OF STEEL
FOSTER AVENUE OVER
INTERSTATE 440
STATION 447+66.48
DAVIDSON COUNTY
1981

CORRECT: *Calvin L. Louell*
ENGINEER OF STRUCTURES
APPROVED: *Louis Guard*
DIRECTOR OF HIGHWAYS

SCANNED

MICROFILMED

DESIGNED BY: P. HENDERSON DATE: 2-81
DRAWN BY: KENNY FRANKENFELD DATE: 4-81
SUPERVISED BY: JIM FIELDS DATE: 4-81
CHECKED BY: R. HENDERSON DATE: 5-81

BILL OF STEEL

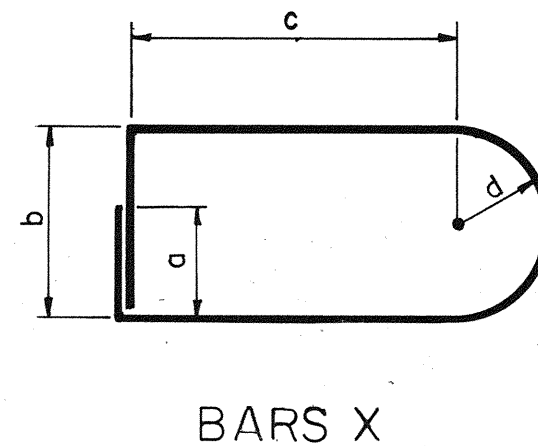
CONST. NO. 19015-3110-44

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
3	TENN.		10		

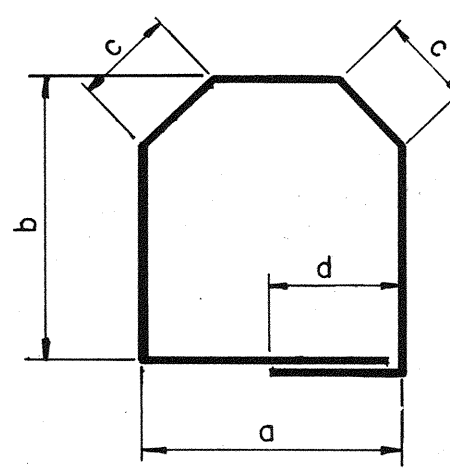
REVISIONS

NO.	DATE	BY	BRIEF DESCRIPTION
1	12-16-81	A.S.	GEN. REV.

ABUTMENT NO. 2 (EPOXY COATED)						PAVEMENT @ BRIDGE ENDS (EPOXY COATED) (ABUT. NO. 2)																				
BAR	LOCATION	SIZE	NO REQ'D	BENDING DIMENSIONS				LENGTH	BAR	LOCATION	SIZE	NO REQ'D	BENDING DIMENSIONS				LENGTH	BAR	LOCATION	SIZE	NO REQ'D	BENDING DIMENSIONS				LENGTH
				a	b	c	d					a	b	c	d					a	b	c	d			
SERIES																										
A1040E	ABUT. WALL	10	1	LENGTH VARIES FROM 8'-1 1/2" TO 8'-8 3/8" IN INCRE. OF 0 7/8" (25 BARS)				210'-5"	A490E	SLAB	4	50													51'-7"	
									A606E	SIDEWALK	6	6													24'-0"	
									A690E	SLAB	6	52													24'-2"	
									A790E	FOOTING	7	8													51'-7"	
									A990E	SLAB	9	103													24'-2"	
SERIES																										
A1041E	ABUT. WALL	10	1	LENGTH VARIES FROM 7'-11" TO 8'-9" IN INCRE. OF 0 7/8" (33 BARS)				275'-0"	H600E	SIDEWALK	6	16	5'-2"	1'-2"											7'-4"	
									L590E	FOOTING & SLAB	5	104	1'-2"	1'-0"	2'-1 1/2"										7'-5"	
SERIES																										
CD1040E	ABUT. WALL	10	1	3'-11"	3 3/4"			266'-5"																		
				DIM. 'A' VARIES FROM 8'-1" TO 8'-3 5/8" IN INCRE. OF 0 7/8" (22 BARS)																						
CD1041E	ABUT. WALL	10	1	8'-4 1/2"	3'-11"	3 3/4"		12'-3"																		
SERIES																										
CD1042E	ABUT. WALL	10	1	3'-11"	3 3/4"			323'-0"																		
				DIM. 'A' VARIES FROM 8'-4 1/2" TO 8'-7 1/8" IN INCRE. OF 0 7/8" (26 BARS)																						
CD1043E	ABUT. WALL	10	1	8'-7 1/8"	3'-11"	3 3/4"		12'-7"																		
CD1044E	ABUT. WALL	10	20	8'-7 3/8"	3'-11"	3 3/4"		12'-6"																		
CD1045E	ABUT. WALL	10	1	8'-6 1/8"	3'-11"	3 3/4"		12'-5"																		
SERIES																										
CD1046E	ABUT. WALL	10	1	3'-11"	3 3/4"			318'-11"																		
				DIM. 'A' VARIES FROM 8'-2 5/8" TO 8'-5 3/8" IN INCRE. OF 0 7/8" (26 BARS)																						
CD1047E	ABUT. WALL	10	1	8'-2 3/8"	3'-11"	3 3/4"		12'-1"																		
SERIES																										
CD1048E	ABUT. WALL	10	1	3'-11"	3 3/4"			192'-1"																		
				DIM. 'A' VARIES FROM 8'-0 1/8" TO 8'-2" IN INCRE. OF 0 7/8" (16 BARS)																						
C1040E	ABUT. WALL	10	6	7'-11"				9'-8"																		
A1042E	ABUT. WALL	10	4					8'-0"																		
A1043E	ABUT. WALL	10	4					8'-2"																		



BARS X

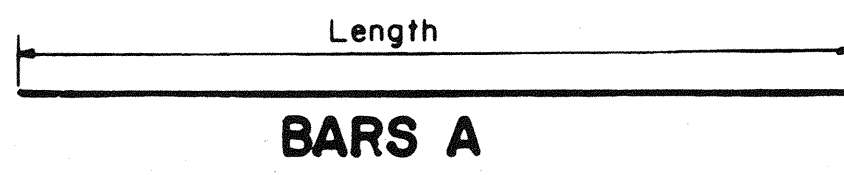


BARS M

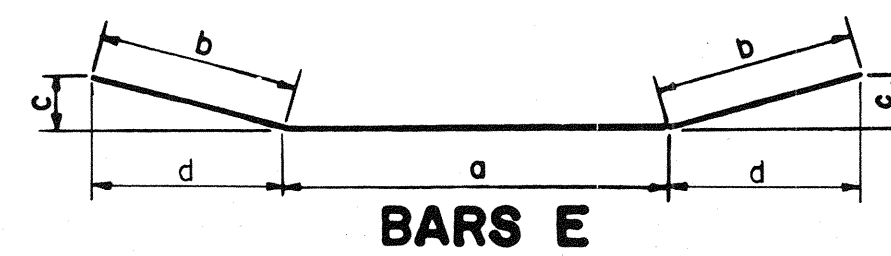
REINFORCING STEEL CODE

TYPE	SIZE	SERIES
A	5	06

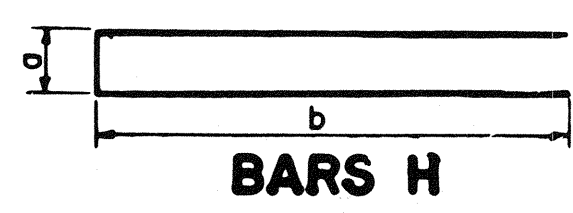
NOTE: Dimensions shown on this sheet are outside to outside of bar. Standard C.R.S.I. Hook Details Shall Apply, Except As Noted.



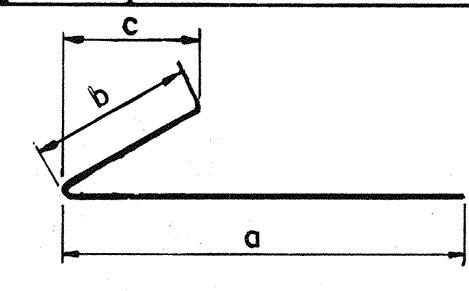
BARS A



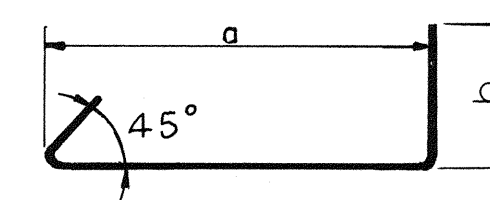
BARS E



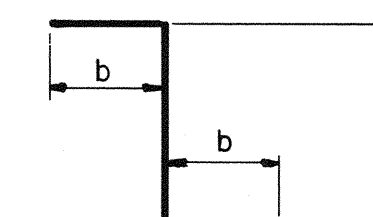
BARS H



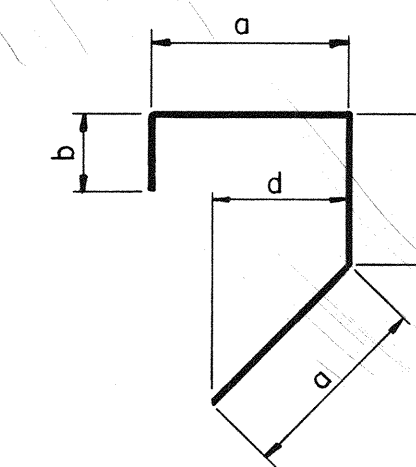
BARS CB



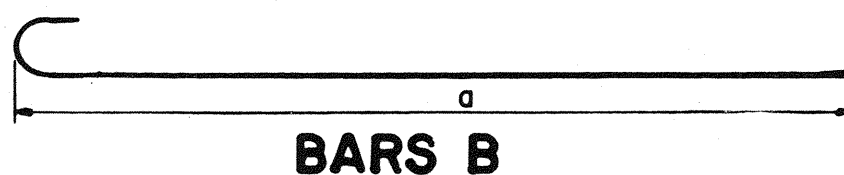
BARS YB



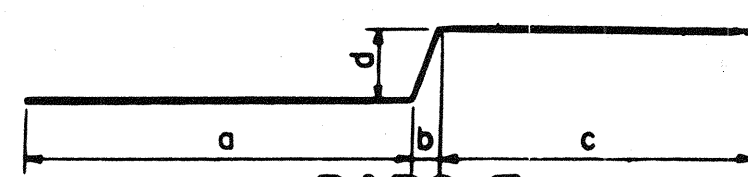
BARS Z



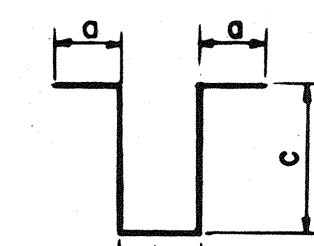
BARS J



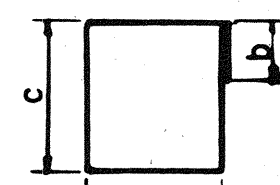
BARS B



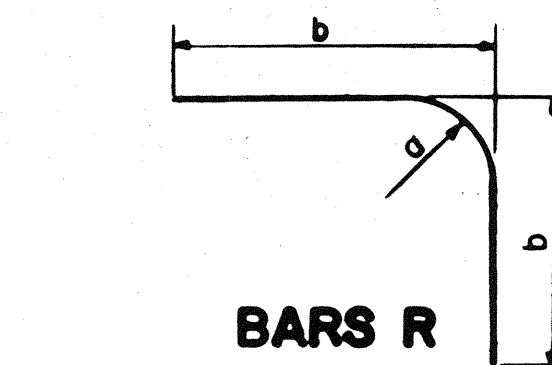
BARS F



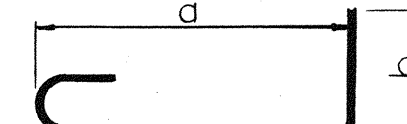
BARS K



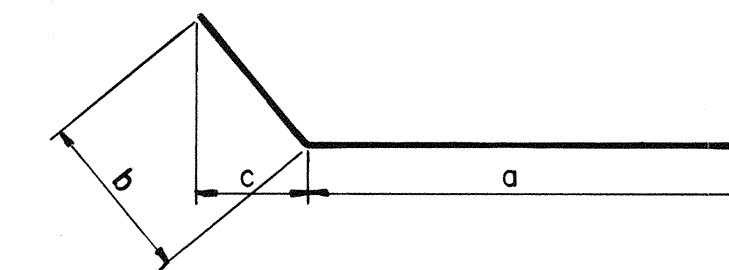
BARS L



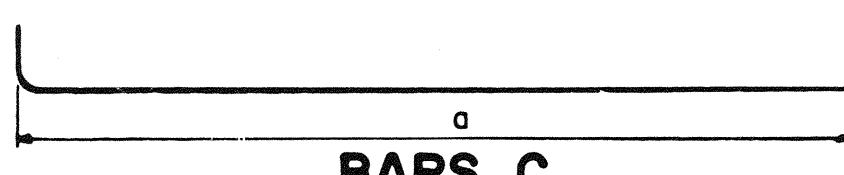
BARS R



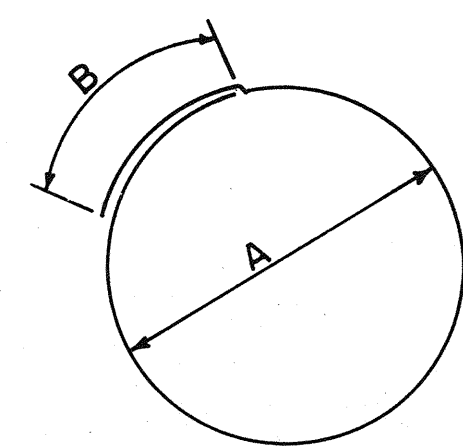
BARS YA



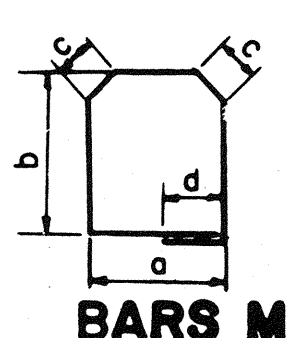
BARS CD



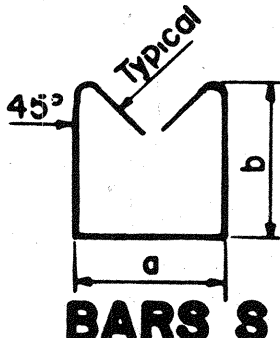
BARS C



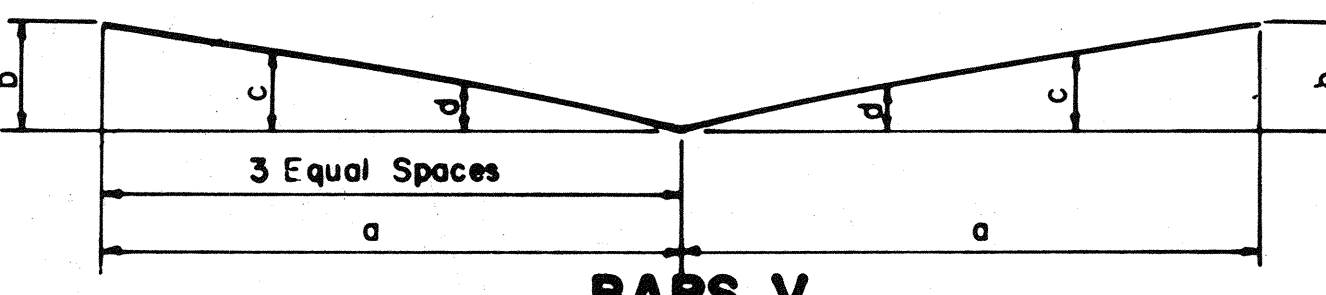
BARS T



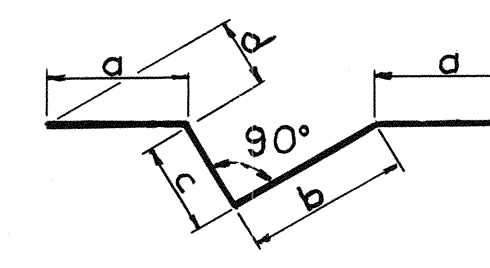
BARS M



BARS S

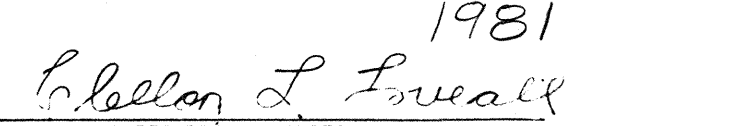
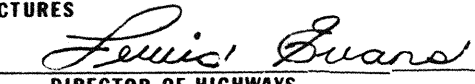


BARS V



BARS JX

DESIGNED BY R. HENDERSON DATE 2-81
 DRAWN BY T. LEWIS DATE 4-81
 SUPERVISED BY J. FIELDS DATE 4-81
 CHECKED BY R. HENDERSON DATE 5-81

STATE OF TENNESSEE
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 BUREAU OF HIGHWAYS
BILL OF STEEL
 FOSTER AVENUE OVER
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 DAVIDSON COUNTY
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 CORRECT  ENGINEER OF STRUCTURES
 APPROVED  DIRECTOR OF HIGHWAYS

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