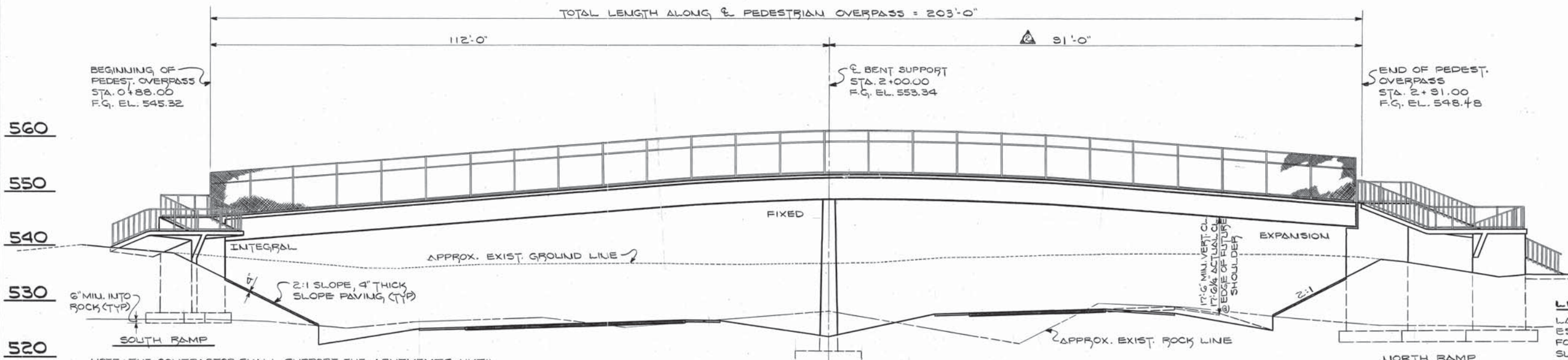


PROJECT NO.	YEAR	SHEET NO.
I-440-4(44)212	1981	64

REVISIONS			
NO.	DATE	BY	BRIEF DESCRIPTION
5-7-81	A.S.		MISC. WORDING
Sept 23, 83	J.H.P.		Small No 6 - Decreased by 5'0"

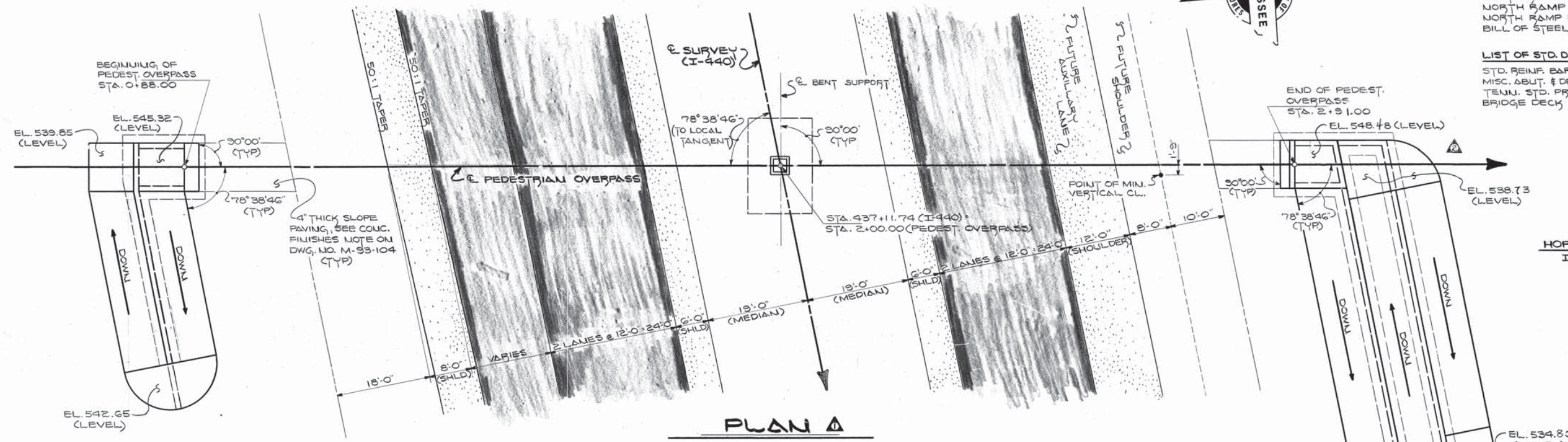


NOTE: THE CONTRACTOR SHALL SUPPORT THE ABUTMENTS UNTIL THE SUPERSTRUCTURE IS IN PLACE, FALSEWORK HAS BEEN REMOVED AND BACKFILLING HAS BEEN COMPLETED  
NOTE: F.G. ELEVATIONS ARE ALONG E OF STRUCTURE

ELEVATION AT RT. 45 TO PEDESTRIAN OVERPASS Δ

LIST OF DRAWINGS	DWG. NO.	LAST REV. DATE
LAYOUT OF BRIDGE NO. 4	M-93-103	9-28-83
ESTIMATED QUANTITIES	M-93-104	9-28-83
FOUNDATION DATA	M-93-105	
SUPERSTRUCTURE	M-93-106	9-28-83
SUPERSTRUCTURE DETAILS	M-93-107	9-28-83
RAILS, FENCING, AND MISC. DETAILS	M-93-108	5-7-81
ABUTMENT NO. 1 & 2 DETAILS	M-93-109	5-7-81
BENT SUPPORT	M-93-110	5-7-81
SOUTH RAMP DETAILS	M-93-111	5-7-81
SOUTH RAMP DETAILS	M-93-112	5-7-81
NORTH RAMP DETAILS	M-93-113	9-28-83
NORTH RAMP DETAILS	M-93-114	9-28-83
BILL OF STEEL	M-93-115	9-28-83

LIST OF STD. DRAWINGS	DWG. NO.	LAST REV. DATE
STD. REINF. BAR SUPPORT	K-80-14	8-27-76
MISC. ABUT. & DRAINAGE DETAILS	K-85-150	1-9-75
TENN. STD. PRECAST PRESTRESSED BRIDGE DECK PANELS	K-80-15A	



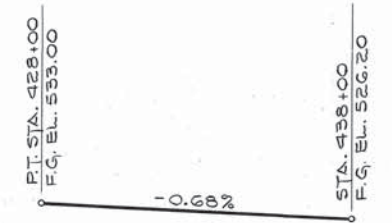
PLAN Δ

**HORIZONTAL CURVE DATA**

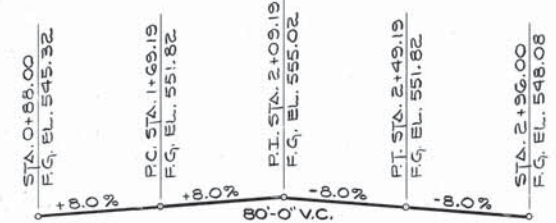
I-440 (PAPER LOC. E.)  
 P.I. = 435+84.98  
 Δ = 2° 15' RT.  
 D<sub>c</sub> = 0° 25' 23"  
 R = 13,545.10'  
 T = 265.99'  
 L<sub>c</sub> = 531.92'  
 E = 2.611'  
 S.B. = VARIES (TRANSITION FROM .032 @ STA. 433+18.33 TO .027 @ STA. 438+50.91)

**LIST OF SPECIAL PROVISIONS**

SPECIAL PROVISION NO.	REGARDING	LAST REV. DATE
130	SECTION 604 - CONCRETE STRUCTURES	12-17-78
210	SUBSECTION 908.13 - ELASTOMERIC BEARING PAD	12-2-76
420	APPROVAL OF SHOP DRAWINGS	7-2-79
471	EPOXY COATED REINFORCING STEEL	2-16-79
495	PAINTING AND PREPARATION OF STEEL SURFACES	10-26-72
450	PERMANENT STEEL BRIDGE DECK FORMS	9-19-77
555	SECTION 615 - PRECAST-PRESTRESSED CONCRETE BRIDGE MEMBERS	7-1-77



GRADE SKETCH I-440



GRADE SKETCH PEDESTRIAN OVERPASS

STATE OF TENNESSEE  
 DEPARTMENT OF TRANSPORTATION  
 BUREAU OF HIGHWAYS

**LAYOUT OF BRIDGE NO. 4  
 PEDESTRIAN OVERPASS OVER  
 I-440 NEAR DORTCH AVE.  
 STATION 437+11.74  
 DAVIDSON COUNTY**

DESIGNED BY MICHAEL MORRIS DATE DEC '80  
 DRAWN BY JIM CASON DATE MAR '81  
 SUPERVISED BY McINTURFF & SMITH DATE MAR '81  
 CHECKED BY McINTURFF & SMITH DATE APR '81

NOTE: ELEVATIONS SHOWN ARE BASED ON FUTURE FIN. GRADE

1981  
 CORRECT *Clifton L. Fowall*  
 ENGINEER OF STRUCTURES  
 APPROVED *Louis Evans*  
 DIRECTOR OF HIGHWAYS

PROJECT NO.	YEAR	SHEET NO.	
I-440-4(44)212	1981	65	
REVISIONS			
NO.	DATE	BY	BRIEF DESCRIPTION
1	5-7-81	A.M.S.	QUANTITIES REVISED
2	7-28-83	JMT	QUANTITIES REUSED

# ESTIMATED QUANTITIES

ITEM NUMBERS	204-02.01	204-04.01	204-05	604-03.01	604-03.02	604-02.03	604-03.03	604-01.04	707-06.03	908-21.04	920-01.11
ITEMS	DRY EXCAVATION (BRIDGES) C.Y.	ROCK EXCAVATION (BRIDGES) C.Y.	ROCK DRILLING (BRIDGES) L.F.	CLASS 'A' CONCRETE (BRIDGES) C.Y.	STEEL BAR REINFORCEMENT (BRIDGES) LBS.	EPOXY COATED REINFORCING STEEL LBS.	LINSEED OIL TREATMENT S.Y.	1 1/2" Ø STEEL PIPE HANDRAIL L.F.	CHAIN-LINK PEDESTRIAN BRIDGE CAGE (BLACK) S.F.	BEARINGS M-93-109 EA.	ROADWAY EXPANSION DEVICE L.F.
<b>SUPERSTRUCTURE</b>				94.0	20,839	20,572	171				
<b>SOUTH RAMP</b>	124	41	12	89.7	7,526	13,827	99	144.7			
<b>ABUTMENT NO. 1</b>				11.9	1,386	4991					
<b>BENT SUPPORT</b>		66	6	29.3	7,875						
<b>ABUTMENT NO. 2</b>				17.3	5,585	159					
<b>NORTH RAMP</b>	440	106	12	232.3	22,372	37,213	215	291.3			
<b>TOTAL</b>	<b>564</b>	<b>213</b>	<b>30</b>	<b>474.5</b>	<b>65,583</b>	<b>76,762</b>	<b>485</b>	<b>436.0</b>	<b>4,601</b>	<b>1</b>	<b>9.0</b>

- THE COST OF BITUMINOUS-FIBERBOARD AND ANY OTHER MISCELLANEOUS JOINT MATERIAL TO BE INCLUDED IN BRIDGE ITEMS BID ON.
- THE PRICE BID FOR ITEM NO. 707-06.03 SHALL INCLUDE ALL LABOR, EQUIPMENT AND MATERIALS NECESSARY FOR INSTALLATION, TO INCLUDE ALL FITTINGS, BASE PLATES AND U-BOLTS REQUIRED. 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 3 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 POLYVINYL CHLORIDE, HAVING A MINIMUM THICKNESS OF 0.015 INCHES. POSTS, RAILS AND FRAMEWORK FOR 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.
- PIPE HANDRAIL AND ALL MISCELLANEOUS MATERIALS BID UNDER ITEM NO. 604-01.04 SHALL BE PAINTED IN ACCORDANCE WITH SPECIAL PROVISION 495, EXCEPT THE COLOR OF THE TOP COAT SHALL BE GLOSS BLACK, REASONABLY MATCHING THE COLOR OF VINYL FENCING. SEE PAINT NOTE THIS SHEET.
- ACCEPTABLE EXPANSION DEVICES ARE AS 200 BY ACME; ON-FLEX 25 BY OLD-NORTH MFG. CO.; OR WABO-MAUFER SA 200. TOTAL REQ'D MOVEMENT IS 1 1/8".
- EXCAVATION BASED ON LOWER ROAD PROFILE.



NOTE TO CONTRACTOR: IF THE CONTRACTOR ELECTS TO USE PRECAST PRESTRESSED BRIDGE DECK PANELS, ALL CLEARANCES FOR SLAB REINFORCEMENT SHALL BE MAINTAINED WITH THE COST OF ANY NECESSARY CHANGES IN THE SLAB OR RAMPS TO BE BORNE BY THE CONTRACTOR.

## GENERAL NOTES:

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

**DESIGN SPECIFICATIONS:** AASHTO 1977 EDITION WITH ADDENDA.

**DESIGN LIVE LOAD:** 85 P.S.F.

**CONCRETE:** TO BE CLASS 'A'.  $f'_c$ : 3,000 P.S.I. SEE SPECIAL PROVISION NO. 130 AND CONCRETE FINISHING.

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

**REINFORCING STEEL:** TO BE ASTM A615 GRADE 60. STANDARD CRSI 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 NO. 471.

**FOOTINGS 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 AND ABUTMENT WALLS SHALL BE ORDERED UNTIL FINAL FOOTING ELEVATIONS HAVE BEEN DETERMINED.

**CONCRETE FINISHING:** 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 BURKE FORMLINER BG308, 'CONCRETE HARF', OR EQUAL. AFTER STRIPPING FORMLINER, THE DECORATIVE FORM FINISH AREAS SHALL BE GIVEN A 'CLASS I 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. SLOPE PAVING FINISH TO BE A STRIATED (RAKED) FINISH WITH THE TINES AT APPROXIMATELY THE SAME WIDTH AND SPACING TO DUPLICATE THE DECORATIVE FORM FINISH. STRIATIONS SHALL BE ORIENTED WITH THE LONG AXIS UP AND DOWN THE SLOPE PAVING. COST OF ALL CONCRETE FINISHES TO BE INCLUDED IN THE PRICE BID FOR CLASS 'A' CONCRETE (BRIDGES) AND SLOPE PAVING.

**ELASTOMERIC LAMINATED BEARING PAD:** SEE SPECIAL PROVISION 210

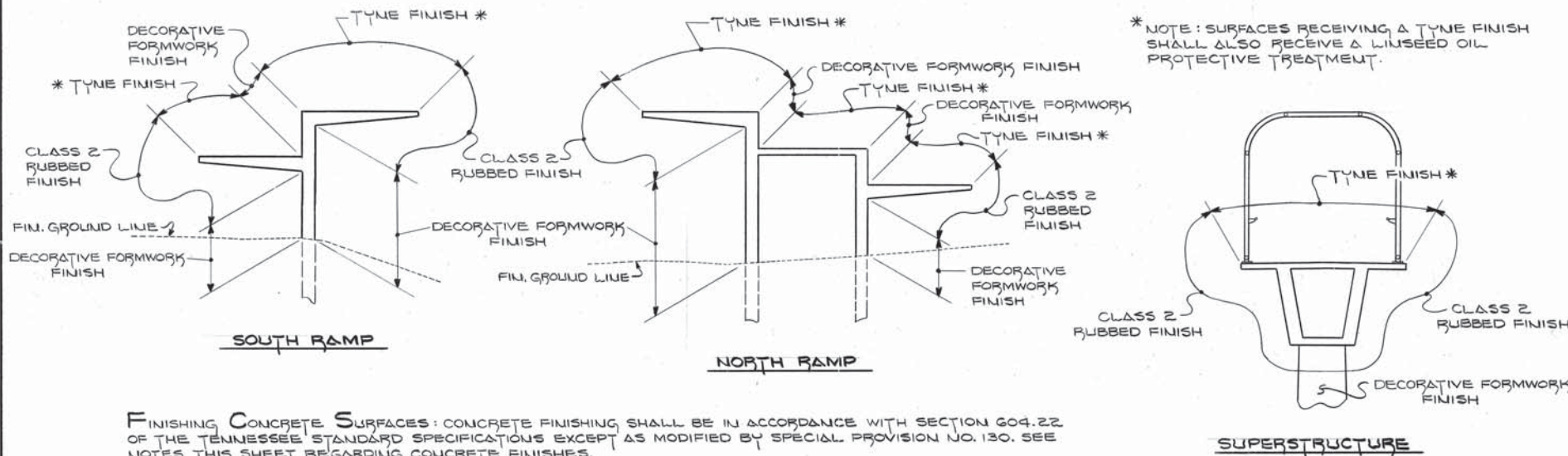
**NOTE:** AT THE CONTRACTOR'S OPTION BEARING DEVICES MAY BE SUBMITTED FOR APPROVAL TO THE ENGINEER OF STRUCTURES. THE BEARINGS SHALL BE CAPABLE OF PROVIDING THE FOLLOWING MINIMUM REQUIREMENTS UNDER SERVICE LOAD.

BEARING	TOTAL MOVEMENT	DEAD LOAD REACTION	LIVE LOAD REACTION
M-93-109	1 1/8"	78.3 KIPS	24.5 KIPS

**PRECAST PRESTRESSED BRIDGE MEMBERS:** SEE SPECIAL PROVISION NO. 555.

**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 RAILS. IN EITHER CASE, FORMS SHALL BE ATTACHED BY MEANS OTHER THAN WELDING TO SUPPORT MEMBERS. SEE SPECIAL PROVISION NO. 450 AND STANDARD DRAWING Y-80-15A. THE CONTRACTOR SHALL TAKE STEPS TO ASSURE THE STABILITY OF THE EXTERIOR GIRDER AGAINST TWISTING OR OVERTURNING DURING SLAB POURING OPERATIONS.

**PAINT:** SYSTEM 'B' - SILICO CHROMATE - GLOSS BLACK TOP COAT - SEE TENNESSEE STANDARD SPECIFICATION SECTION 603 AND SPECIAL PROVISION 495.



**FINISHING CONCRETE SURFACES:** CONCRETE FINISHING SHALL BE IN ACCORDANCE WITH SECTION 604.22 OF THE TENNESSEE STANDARD SPECIFICATIONS EXCEPT AS MODIFIED BY SPECIAL PROVISION NO. 130. SEE NOTES, THIS SHEET REGARDING CONCRETE FINISHES.

**NOTE:** EXPOSED FACES OF ABUTMENT AND BENT COLUMN TO RECEIVE DECORATIVE FORMWORK FINISH.

## SURFACE TREATMENT SKETCHES

STATE OF TENNESSEE  
DEPARTMENT OF TRANSPORTATION  
BUREAU OF HIGHWAYS

**ESTIMATED QUANTITIES  
BRIDGE NO. 4  
PEDESTRIAN OVERPASS OVER  
I-440 NEAR DORTCH AVE.  
STATION 437+11.74  
DAVIDSON COUNTY**

CORRECT *Charles L. Howell* 1981  
ENGINEER OF STRUCTURES

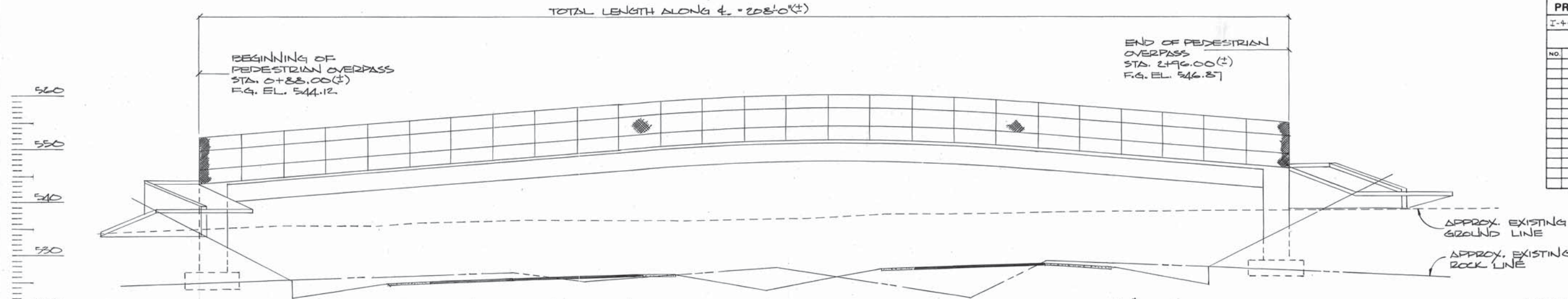
APPROVED *Louis Evans*  
DIRECTOR OF HIGHWAYS

DESIGNED BY MICHAEL MORRIS DATE DEC. '80  
DRAWN BY JIM CASON DATE MAR. '81  
SUPERVISED BY McINTURFF & SMITH DATE MAR. '81  
CHECKED BY McINTURFF & SMITH DATE APR. '81

PROJECT NO.	YEAR	SHEET NO.
I-440-4(44)212	1981	66

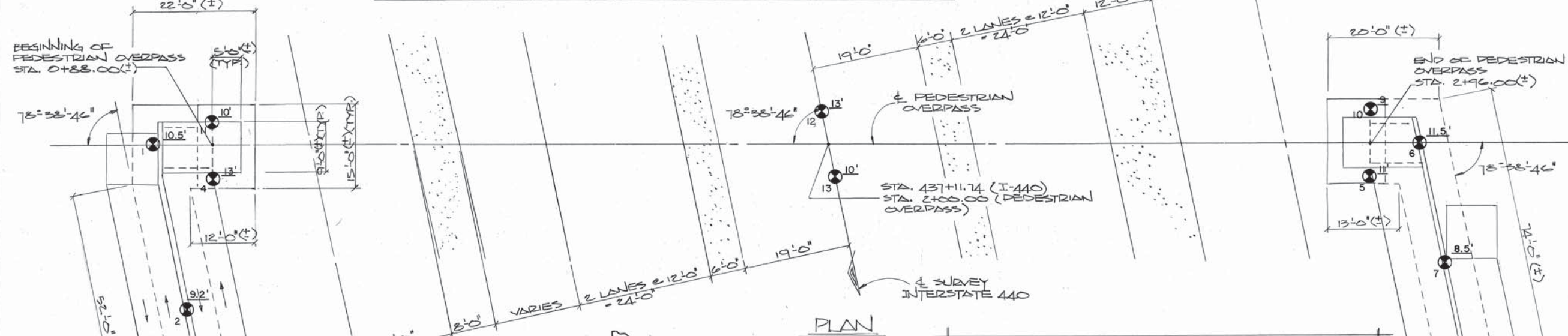
  

REVISIONS			
NO.	DATE	BY	BRIEF DESCRIPTION



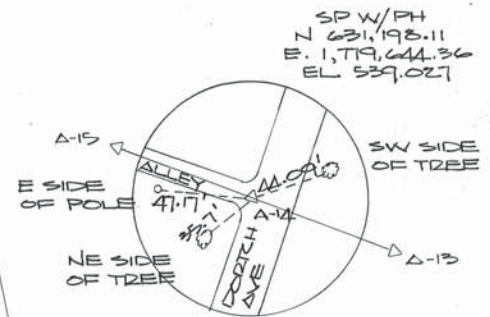
ELEVATION @ RT. X'S TO PEDESTRIAN OVERPASS

**HORIZONTAL CURVE DATA**  
 I-440 (PAP LOC.  $\pm$ )  
 P.O.I. = 435+84.983  
 $\Delta = 2^{\circ}15'00''$   
 $D_c = 0 = 251.23'$   
 $R = 13,545.102'$   
 $T = 225.992'$   
 $L_c = 531.915'$   
 $E = 2.211'$   
 S.E. = VARIES



PLAN

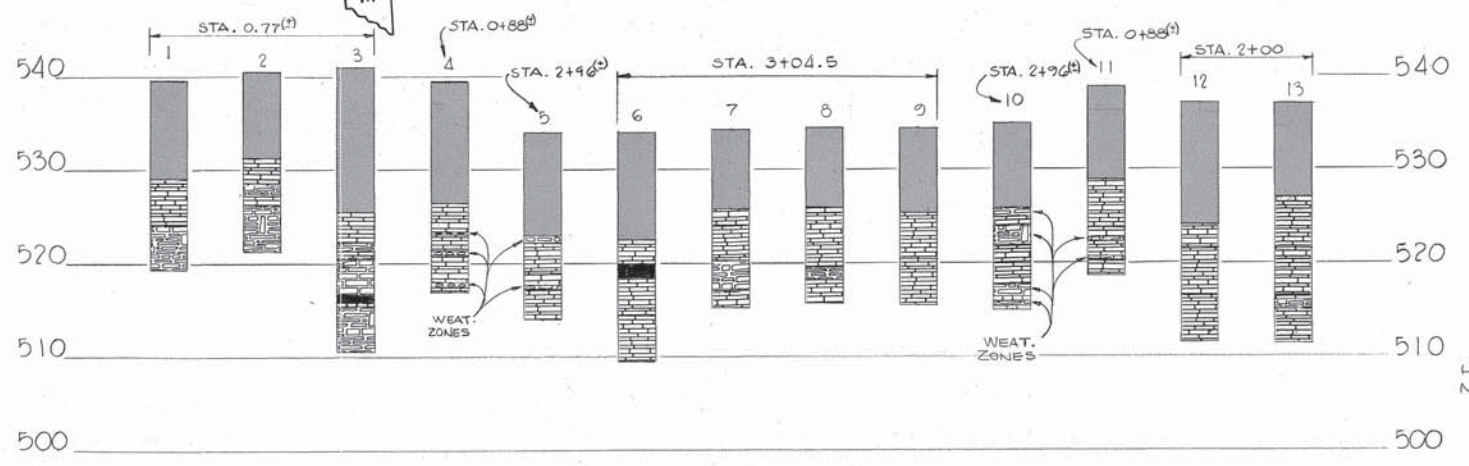
REQUIRED: 1. SUFFICIENT GROUND, ROCK AND CORING INFORMATION FOR BRIDGE FOUNDATIONS.  
 2. APPROX. EXISTING GROUND & ROCK LINE.



BENCH MARK A-14

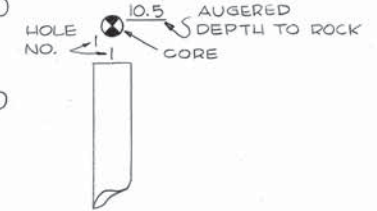
1. G 539.7 R 529.2	7. G 534.2 R 525.7
2. G 540.5 R 531.5	8. G 534.6 R 526.1
3. G 541.0 R 525.3	9. G 534.4 R 525.4
4. G 539.5 R 526.5	10. G 535.0 R 526.0
5. G 534.0 R 523.0	11. G 539.0 R 529.0
6. G 534.0 R 522.5	12. G 537.2 R 524.2
	13. G 537.1 R 527.1

(NOTE: Holes No. 1-13 are CORE SAMPLES)



-Legend-

- CLAY
- WEAT. LIMESTONE
- LIMESTONE (8 TONS/FT.<sup>2</sup>)



DESIGNED BY MICHAEL MORRIS DATE Nov. '80  
 DRAWN BY MICHAEL MORRIS DATE Nov. '80  
 SUPERVISED BY SMITH DATE Nov. '80  
 CHECKED BY DATE

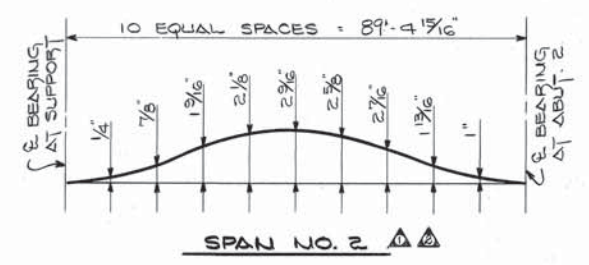
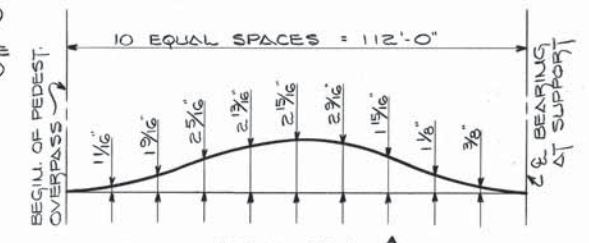
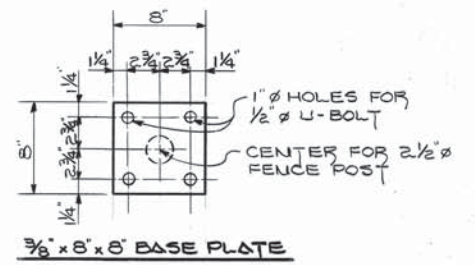
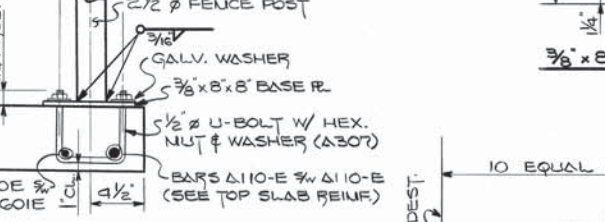
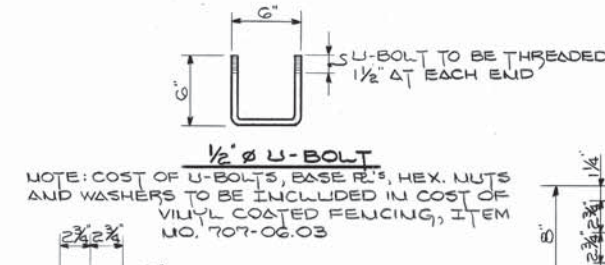
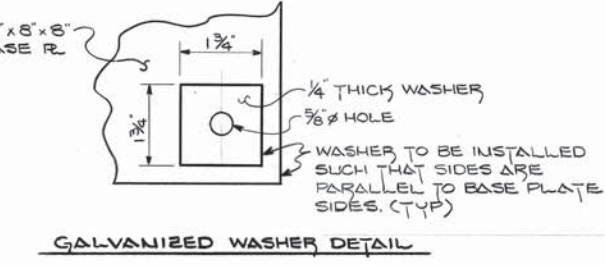
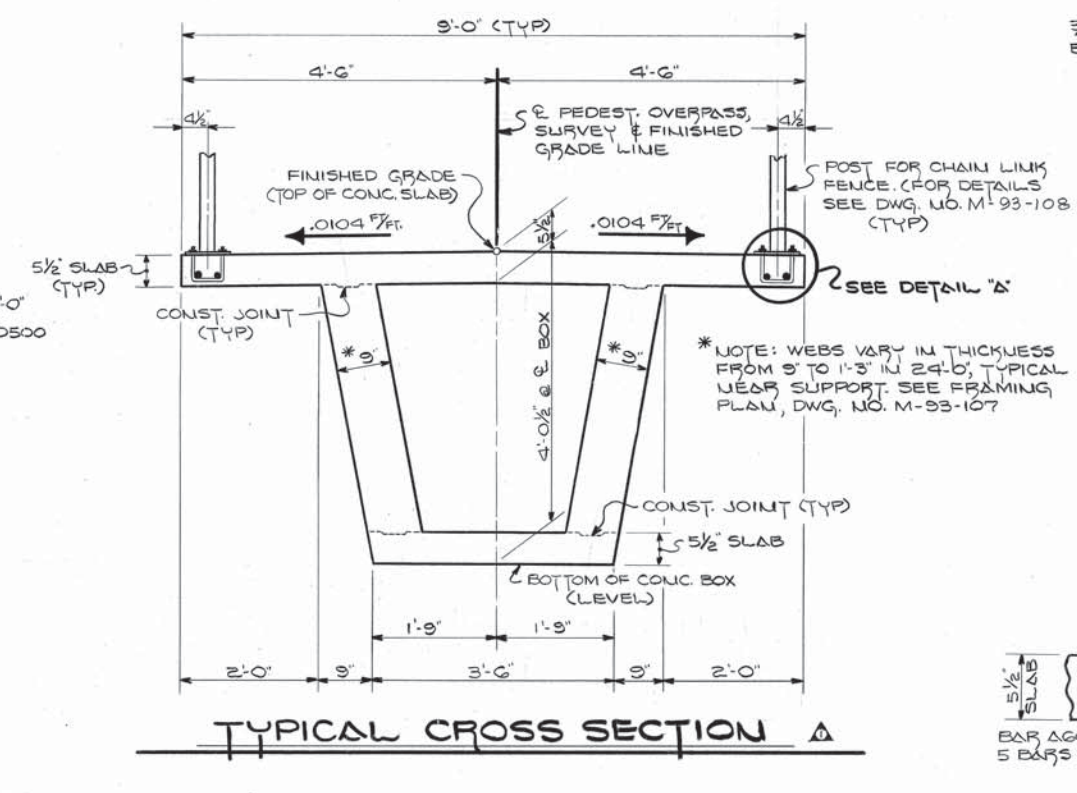
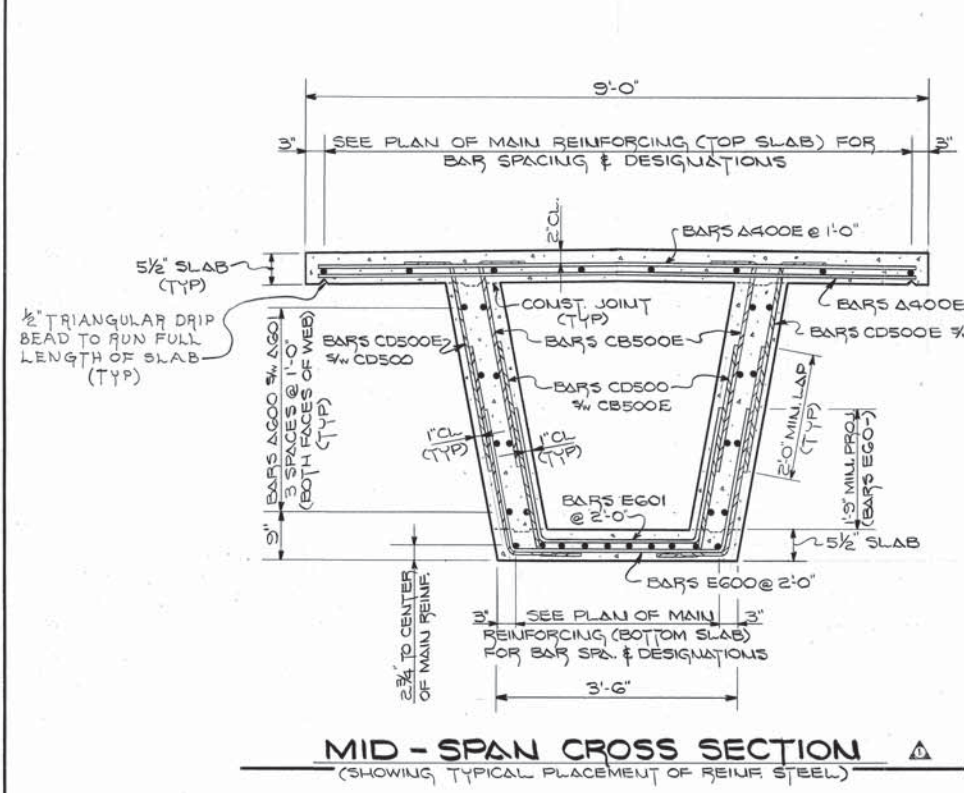
CORRECT ENGINEER OF STRUCTURES

APPROVED DIRECTOR OF HIGHWAYS

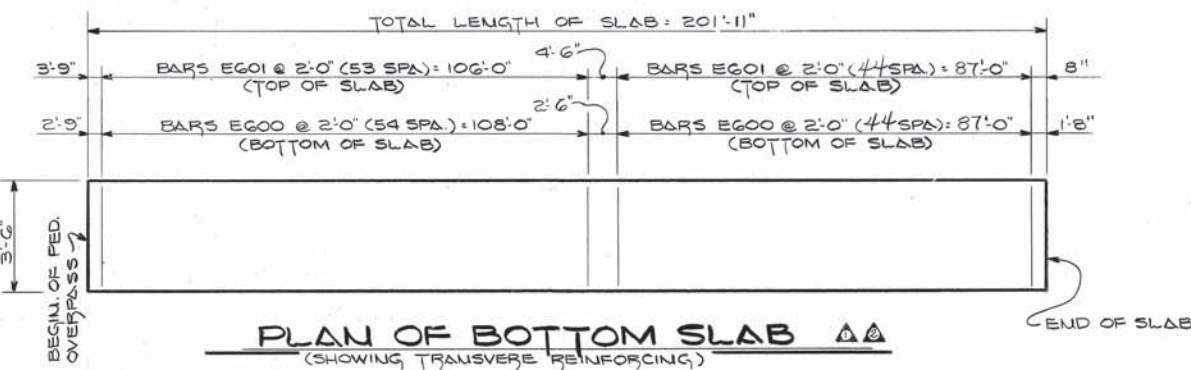
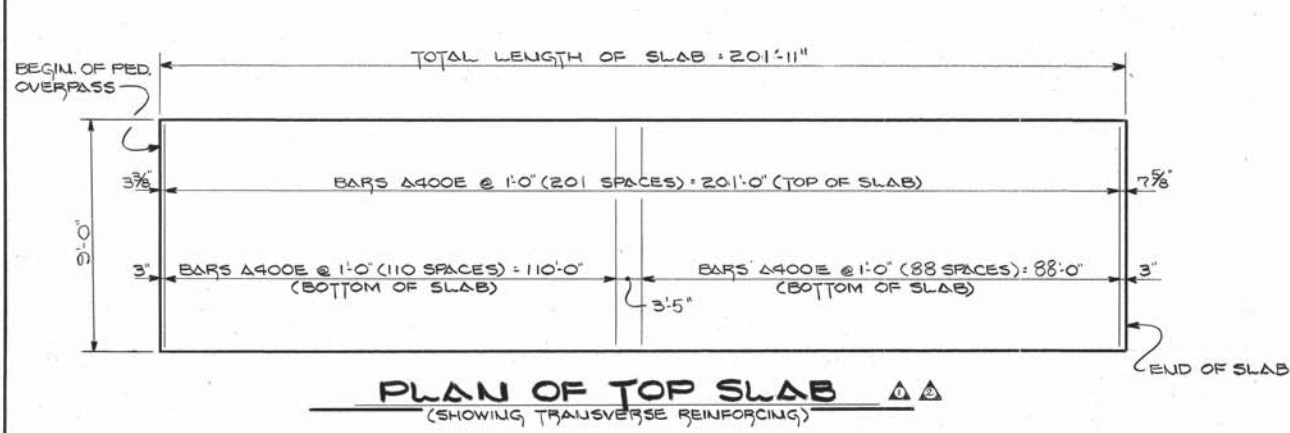
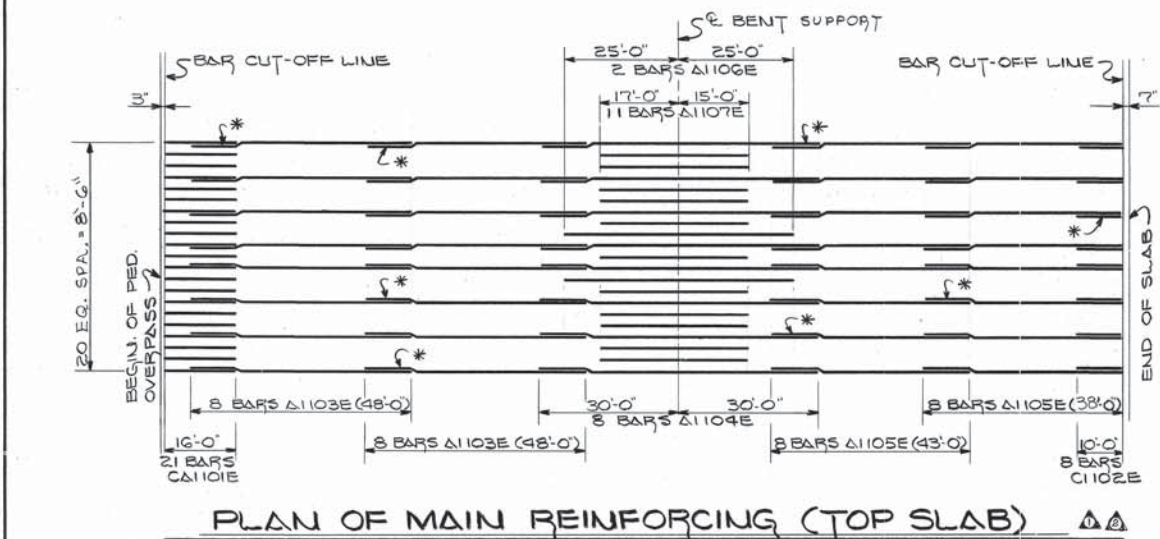
STATE OF TENNESSEE  
 DEPARTMENT OF TRANSPORTATION  
 BUREAU OF HIGHWAYS  
 FOUNDATION DATA  
 PEDESTRIAN OVERPASS  
 OVER INTERSTATE 440  
 STATION 437+11.74  
 DAVIDSON COUNTY  
 1980

PROJECT NO.	YEAR	SHEET NO.
I-440-4(44)2/2	1981	67

REVISIONS			
NO.	DATE	BY	BRIEF DESCRIPTION
1	5-7-81	AM.S.	GENERAL REVISIONS
2	9-28-83	J.H.P.	General Revision Due To Spall No. 2 Fully Repaired By 5-0'



**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.



**ESTIMATED QUANTITIES**

CLASS 'A' CONCRETE C.Y.	REINFORCING STEEL LBS.	EPOXY COATED REINFORCING STEEL LBS.
94.0	20,839	20,572

STATE OF TENNESSEE  
DEPARTMENT OF TRANSPORTATION  
BUREAU OF HIGHWAYS  
**SUPERSTRUCTURE**  
**PEDESTRIAN OVERPASS OVER**  
**I-440 NEAR DORTCH AVE.**  
**STATION 437+11.74**  
**DAVIDSON COUNTY**  
1981

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

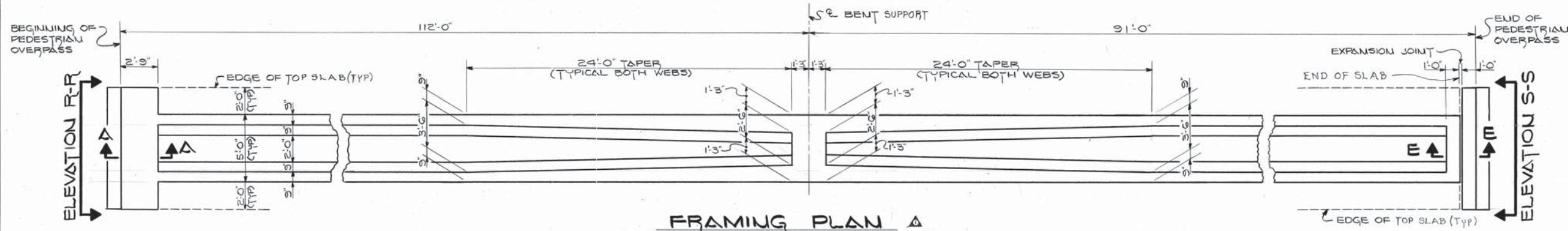
DESIGNED BY MICHAEL MORRIS DATE DEC. '80  
DRAWN BY JIM CASON DATE FEB. '81  
SUPERVISED BY MCINTURFF & SMITH DATE FEB. '81  
CHECKED BY DATE

MICROFILMED

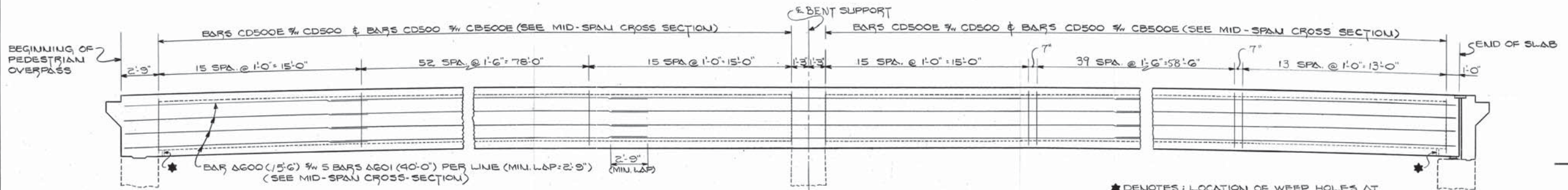
PROJECT NO.	YEAR	SHEET NO.
I-440-4(44)212	1981	68

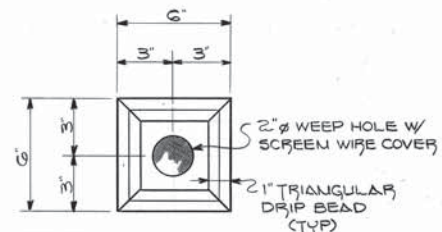
REVISIONS			
NO.	DATE	BY	BRIEF DESCRIPTION
1	5-7-81	A.M.S.	GENERAL REVISIONS
2	7-28-85	J.H.P.	General Revision



**FRAMING PLAN** Δ

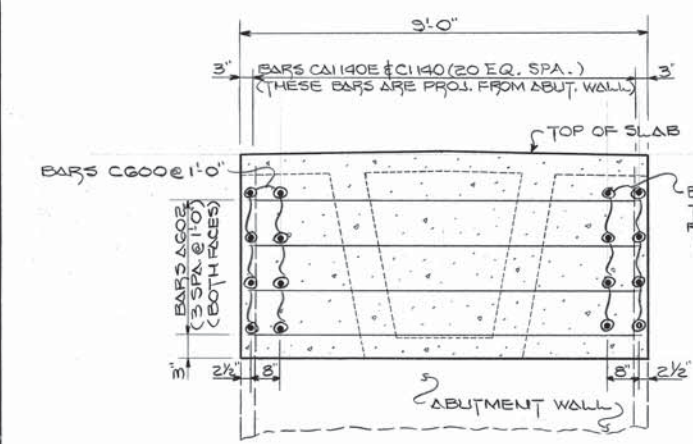


**ELEVATION OF CONCRETE BOX** ΔΔ  
(SHOWING WEB REINFORCEMENT)

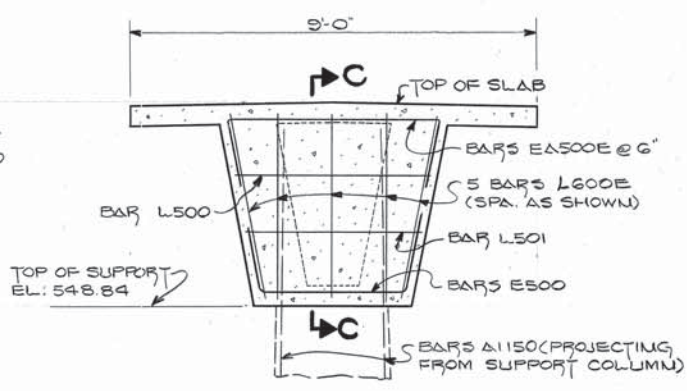


**WEEP HOLE DETAILS**

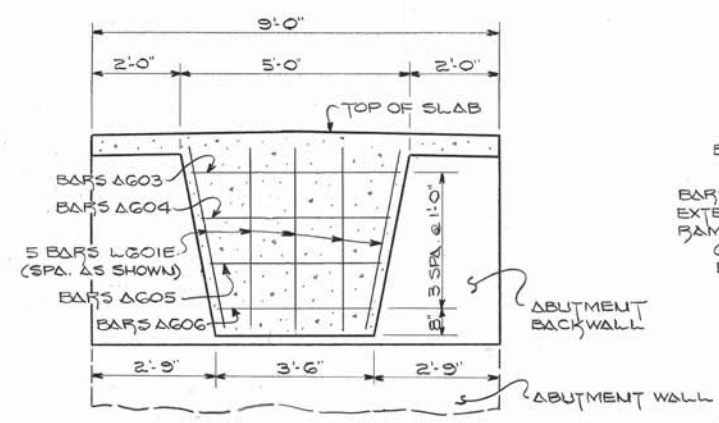
\* DENOTES: LOCATION OF WEEP HOLES AT LOWEST POINT OF EACH CELL. SEE DETAIL THIS SHEET.



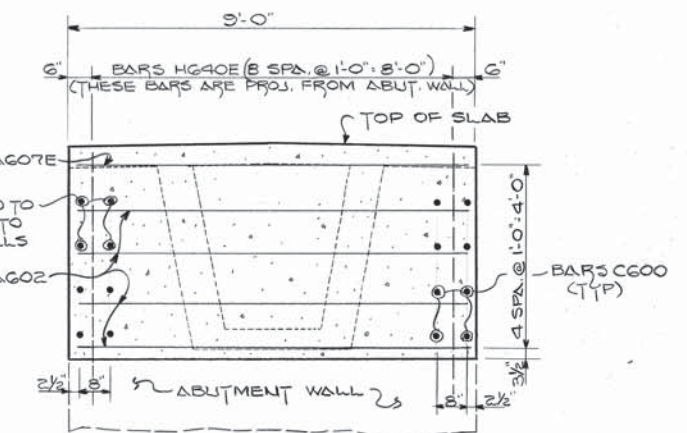
**ELEVATION R-R** Δ  
(ABUTMENT NO. 1)



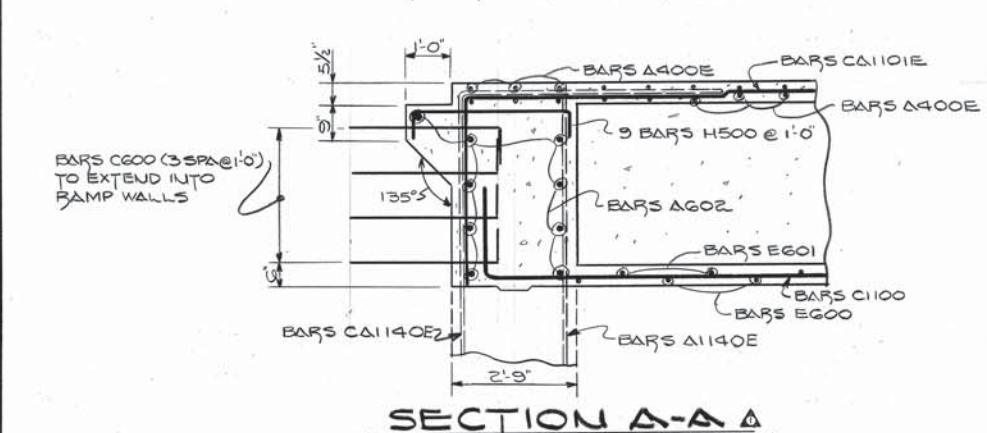
**ELEVATION @ E SUPPORT** Δ  
(SHOWING REINFORCING IN DIAPHRAGM)



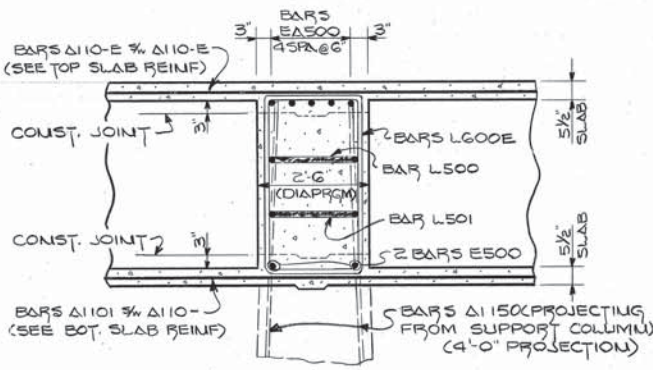
**ELEV. OF END DIAPHRAGM** Δ  
(ABUTMENT NO. 2)



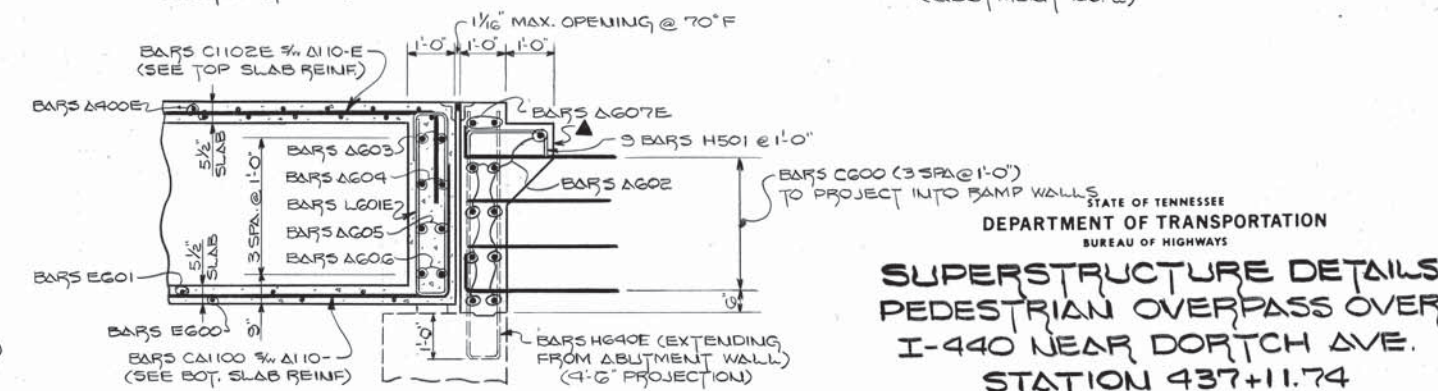
**ELEVATION S-S** Δ  
(ABUTMENT NO. 2)



**SECTION A-A** Δ



**SECTION C-C** Δ



**SECTION E-E** Δ

▲ NOTE: SEE SECTION A-A FOR DIMENSIONS

STATE OF TENNESSEE  
DEPARTMENT OF TRANSPORTATION  
BUREAU OF HIGHWAYS  
**SUPERSTRUCTURE DETAILS  
PEDESTRIAN OVERPASS OVER  
I-440 NEAR DORTCH AVE.  
STATION 437+11.74  
DAVIDSON COUNTY  
1981**

CORRECTED *Clifton J. Sovall*  
ENGINEER OF STRUCTURES  
APPROVED *Louis Evans*  
DIRECTOR OF HIGHWAYS

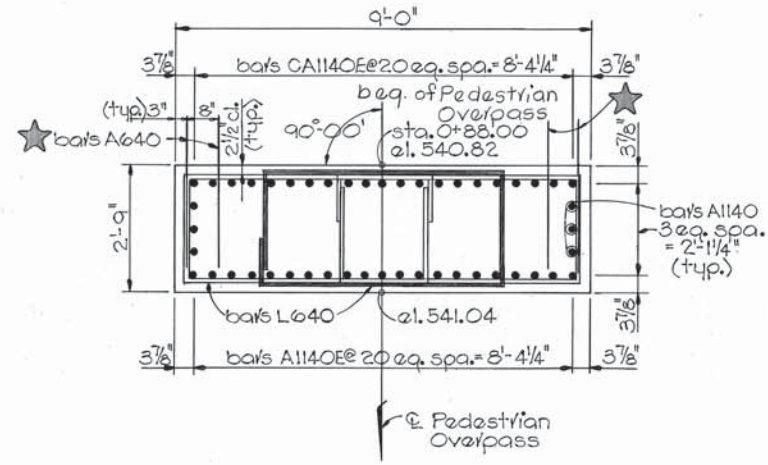
M-93-107

MICROFILMED

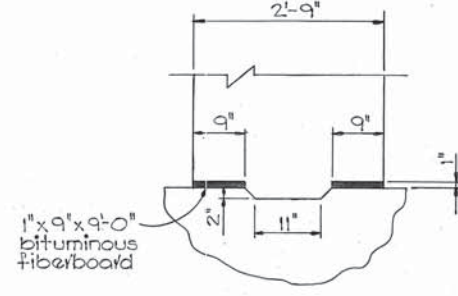
DESIGNED BY MICHAEL MORRIS DATE DEC. '80  
DRAWN BY JIM CASON DATE FEB. '81  
SUPERVISED BY McINTURFF & SMITH DATE FEB. '81  
CHECKED BY DATE



PROJECT NO.	YEAR	SHEET NO.	
I-440-4(44)212	1981	70	
REVISIONS			
NO.	DATE	BY	BRIEF DESCRIPTION
1	5-7-81	A.M.S.	Added epoxy steel 97. general red

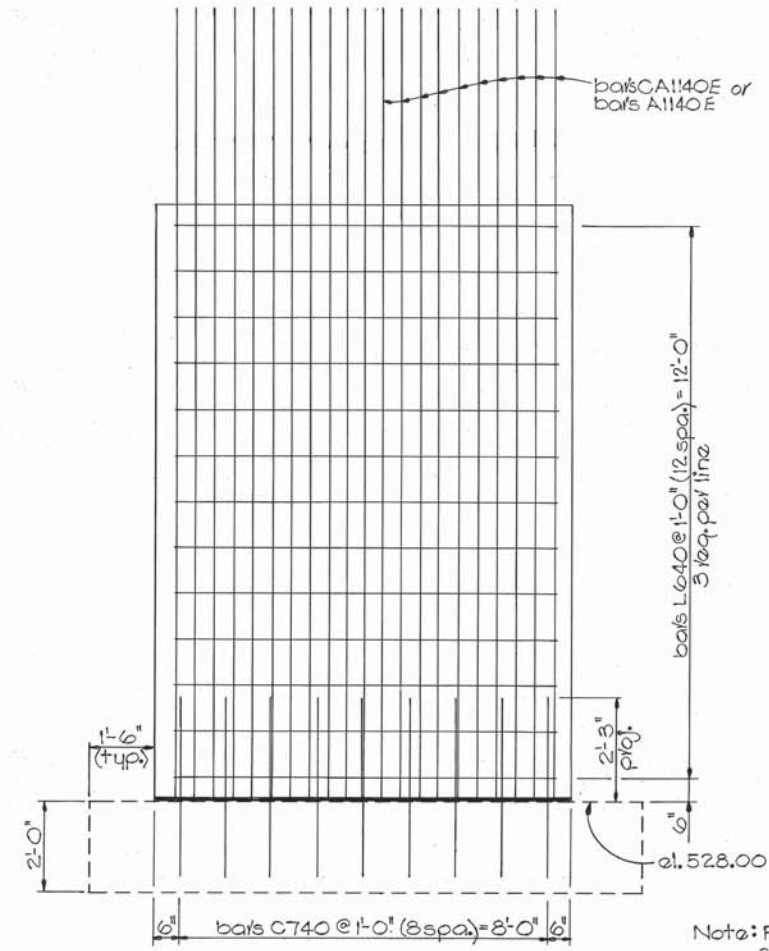


PLAN

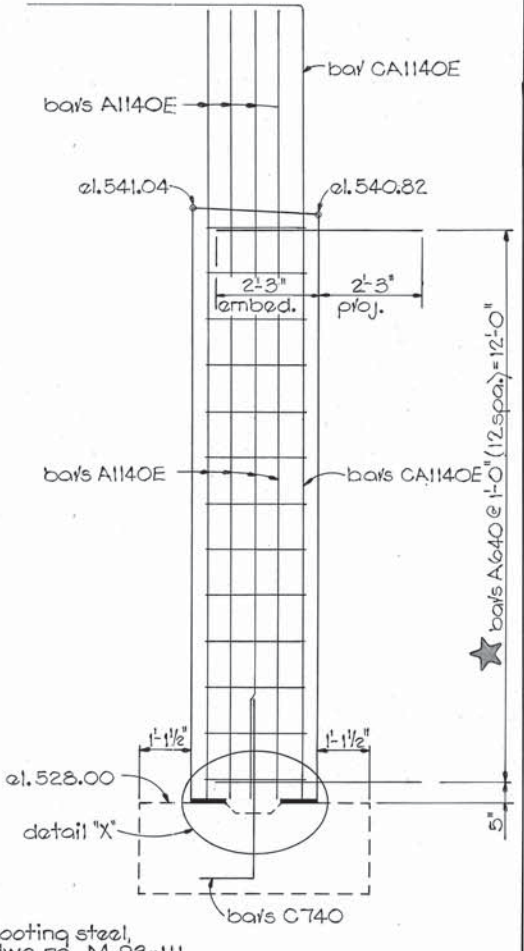


DETAIL "X"

Note: Bars A640 to splice with reinforcing in ramp walls.



ELEVATION (looking back on survey)

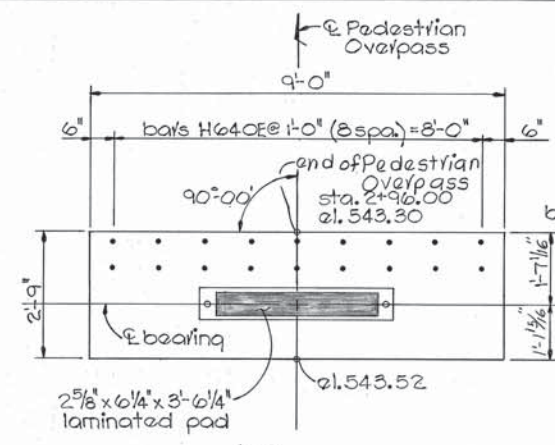


END ELEVATION

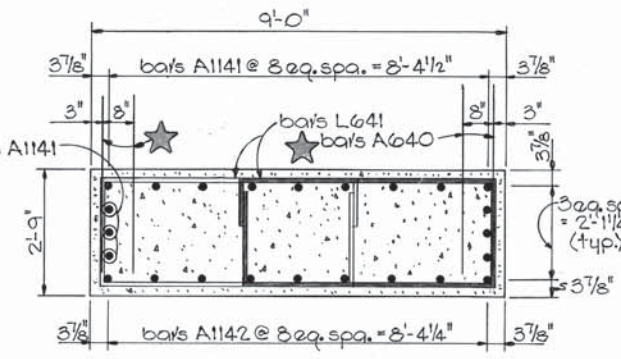
Note: For footing steel, see dwg. no. M-98-111.

ESTIMATED QUANTITIES

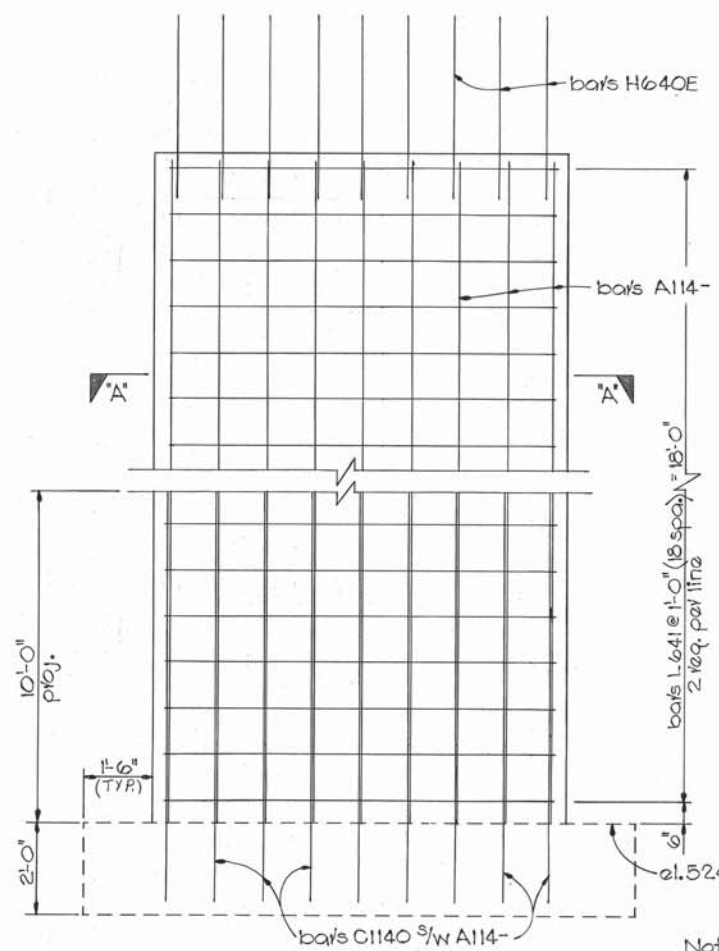
Class "A" Concrete c.y.	Reinforcing Steel lbs.	Epoxy Coated Reinforcing Steel lbs.
11.9	1,386	4,991



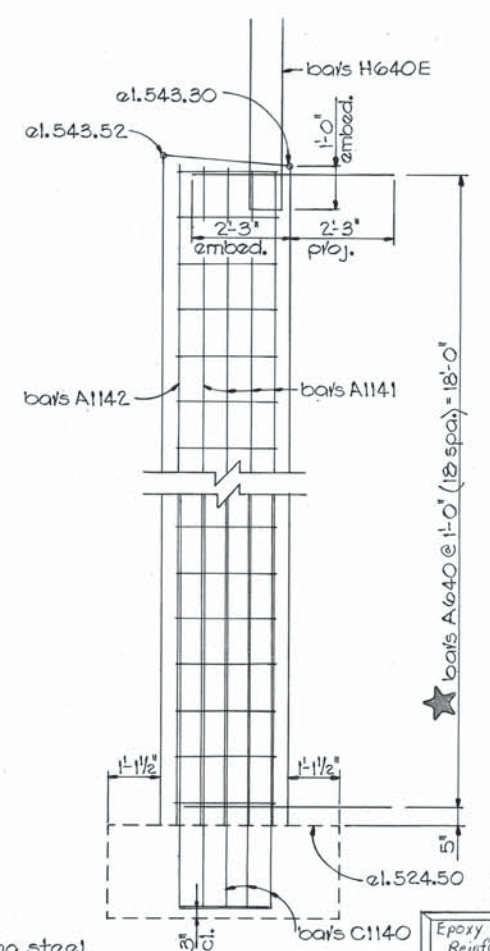
PLAN



SECTION A-A

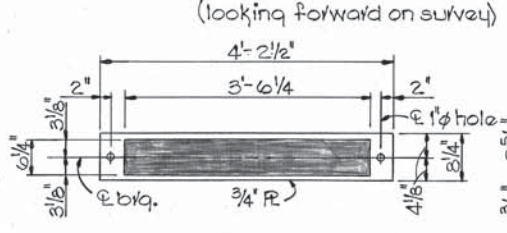


ELEVATION (looking forward on survey)

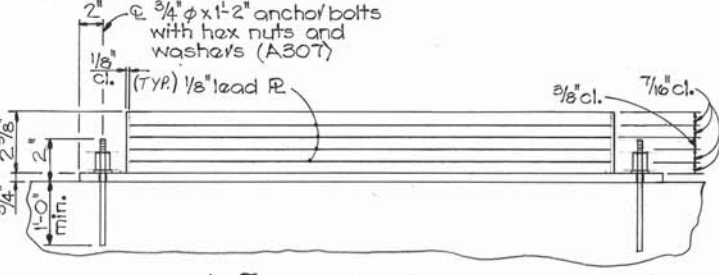


END ELEVATION

Note: For footing steel, see dwg. no. M-98-118.



PLAN



ELEVATION

ESTIMATED QUANTITIES

Epoxy Coated Reinforcing Steel lbs.	Class "A" Concrete c.y.	Reinforcing Steel lbs.
159	17.3	5,585

STATE OF TENNESSEE  
DEPARTMENT OF TRANSPORTATION  
BUREAU OF HIGHWAYS  
ABUTMENT No. 1 & 2 DETAILS  
PEDESTRIAN OVERPASS OVER  
I-440 NEAR DORTCH AVE.  
STATION 437+11.74  
DAVIDSON COUNTY  
1981

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

DESIGNED BY M. Morris DATE 2-81  
DRAWN BY T. Wilson DATE 4-81  
SUPERVISED BY McInturff, Smith DATE 4-81  
CHECKED BY DATE

ABUTMENT No. 1

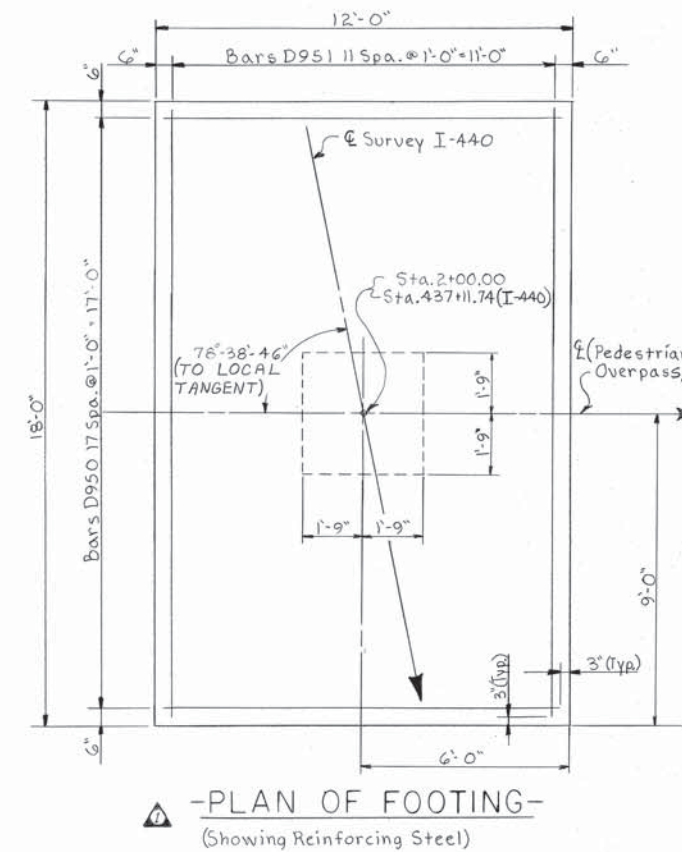
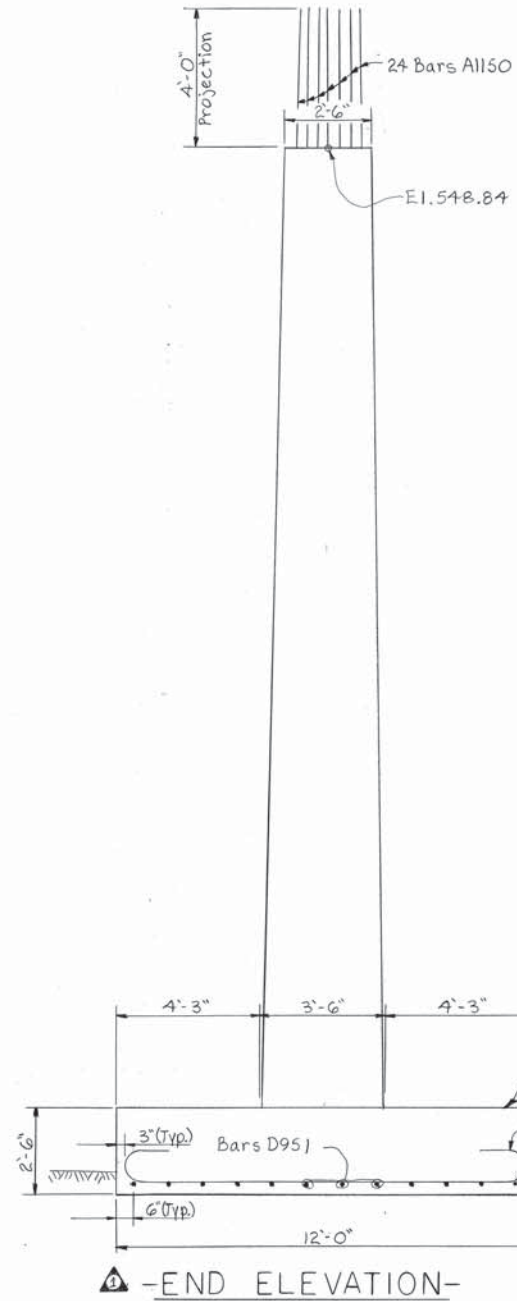
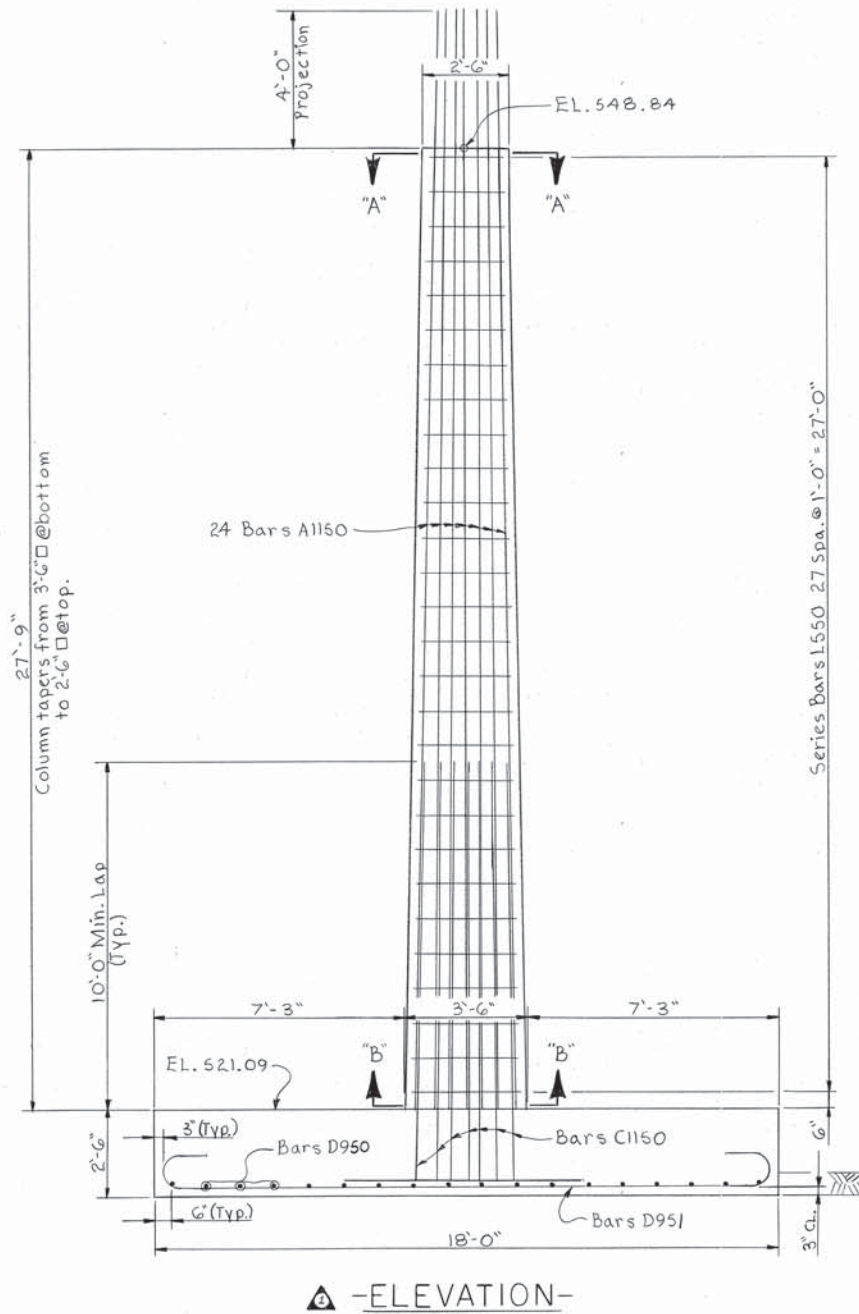
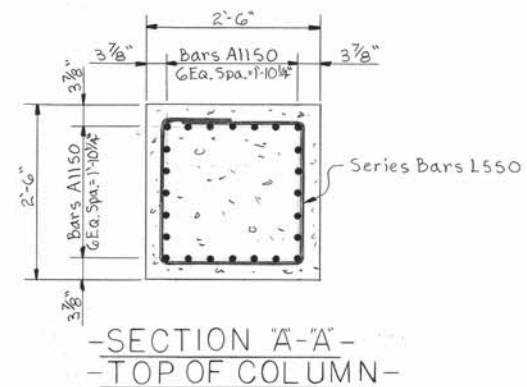
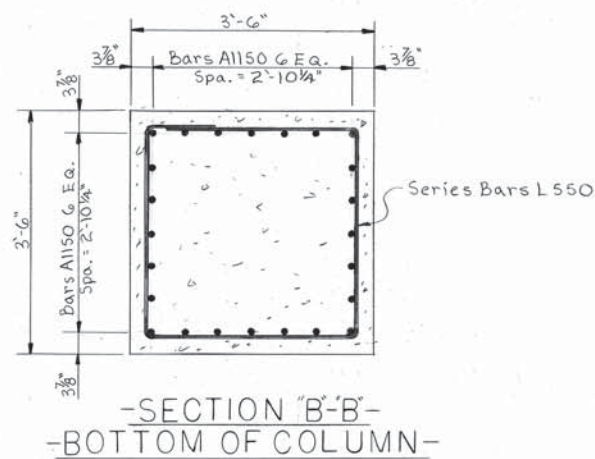
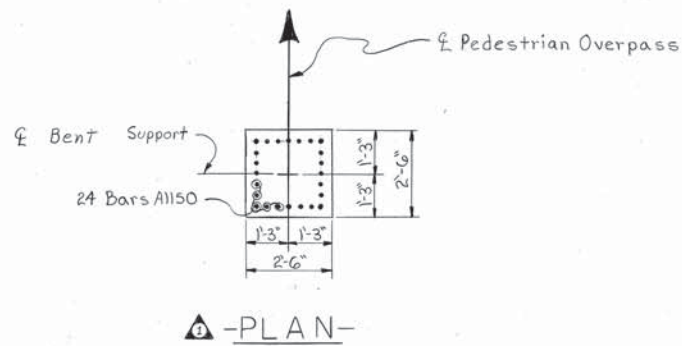
ABUTMENT No. 2

LAMINATED PAD DETAILS

Const. No. 19015-3110-44

PROJECT NO.	YEAR	SHEET NO.
I-440-4(4A)212	1981	71

REVISIONS			
NO.	DATE	BY	BRIEF DESCRIPTION
1	5-7-81	AMS	Changed Conc. qt. & general revisions



ESTIMATED QUANTITIES

ITEM	CLASS "A" CONCRETE CY.	REINFORCING STEEL LBS.
Bent Support	29.3	7,875

STATE OF TENNESSEE  
 DEPARTMENT OF TRANSPORTATION  
 BUREAU OF HIGHWAYS  
 BENT SUPPORT  
 PEDESTRIAN OVERPASS  
 OVER I440 NEAR DORTCH AVE.  
 STATION 437+11.74  
 DAVIDSON COUNTY  
 1981

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

M-93-110

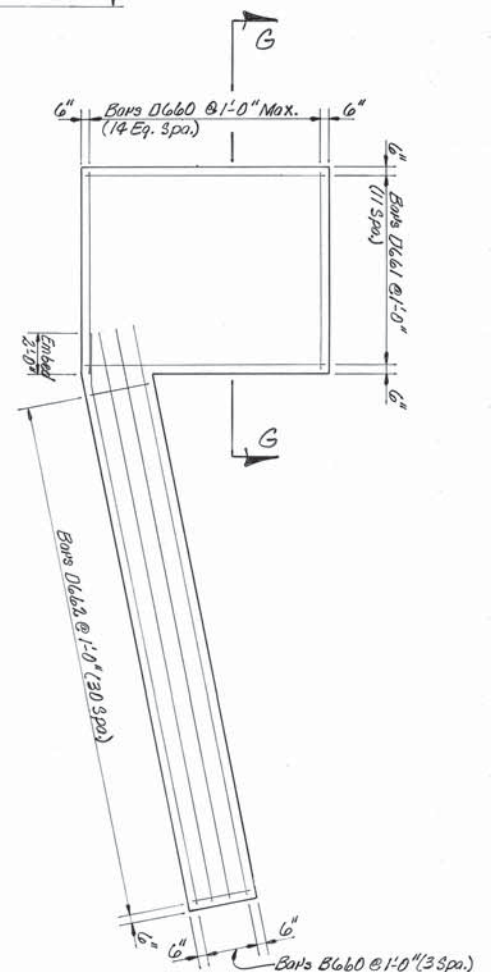
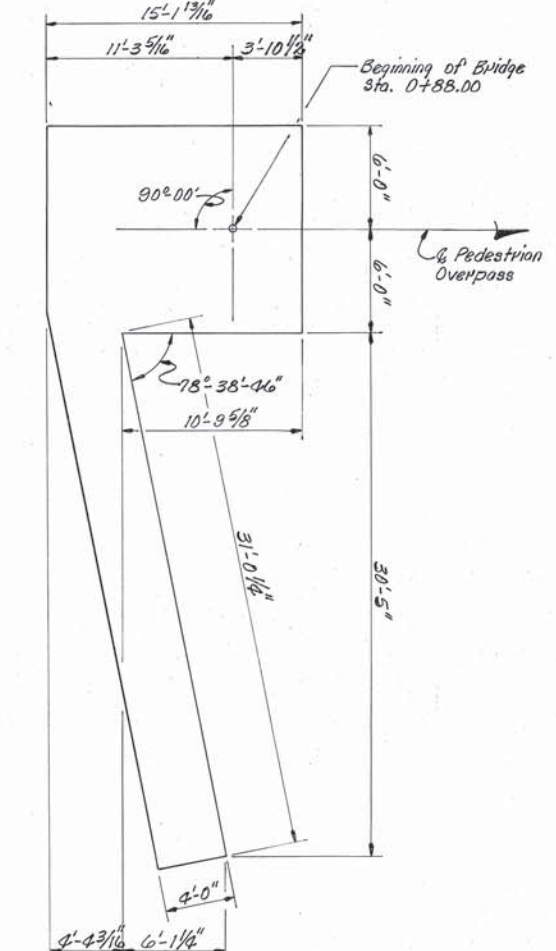
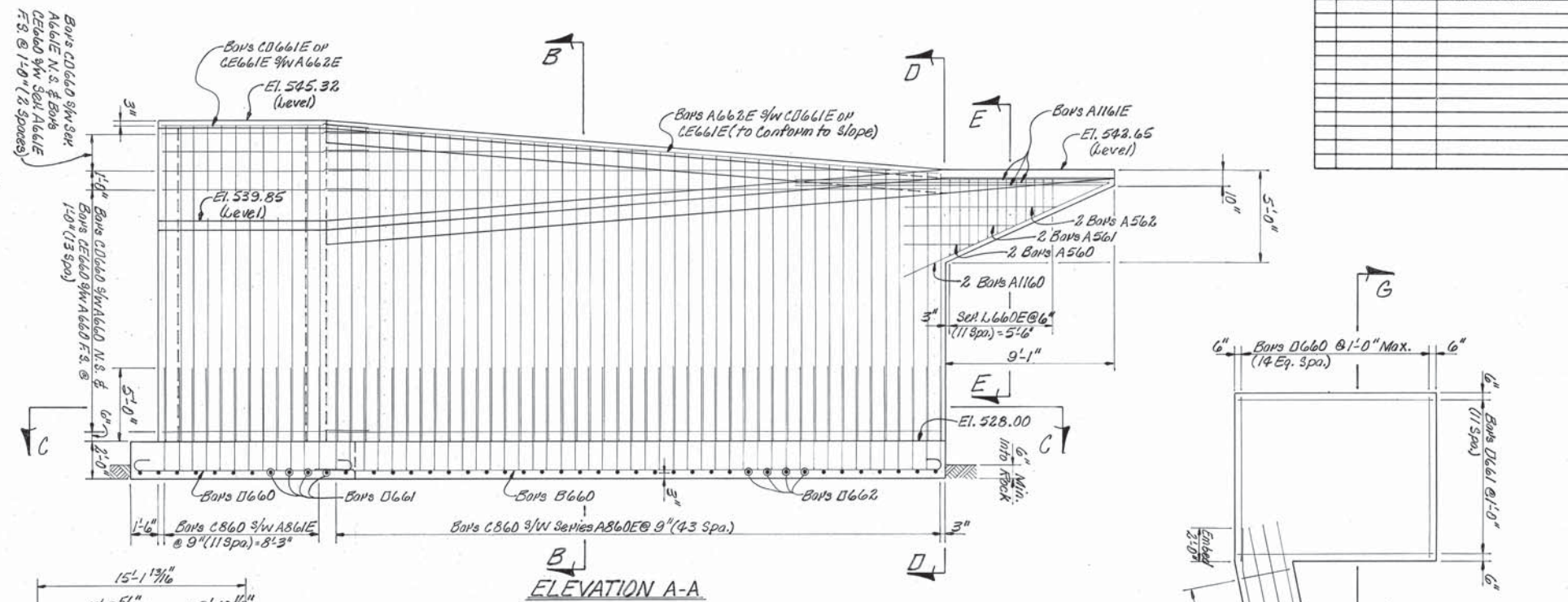
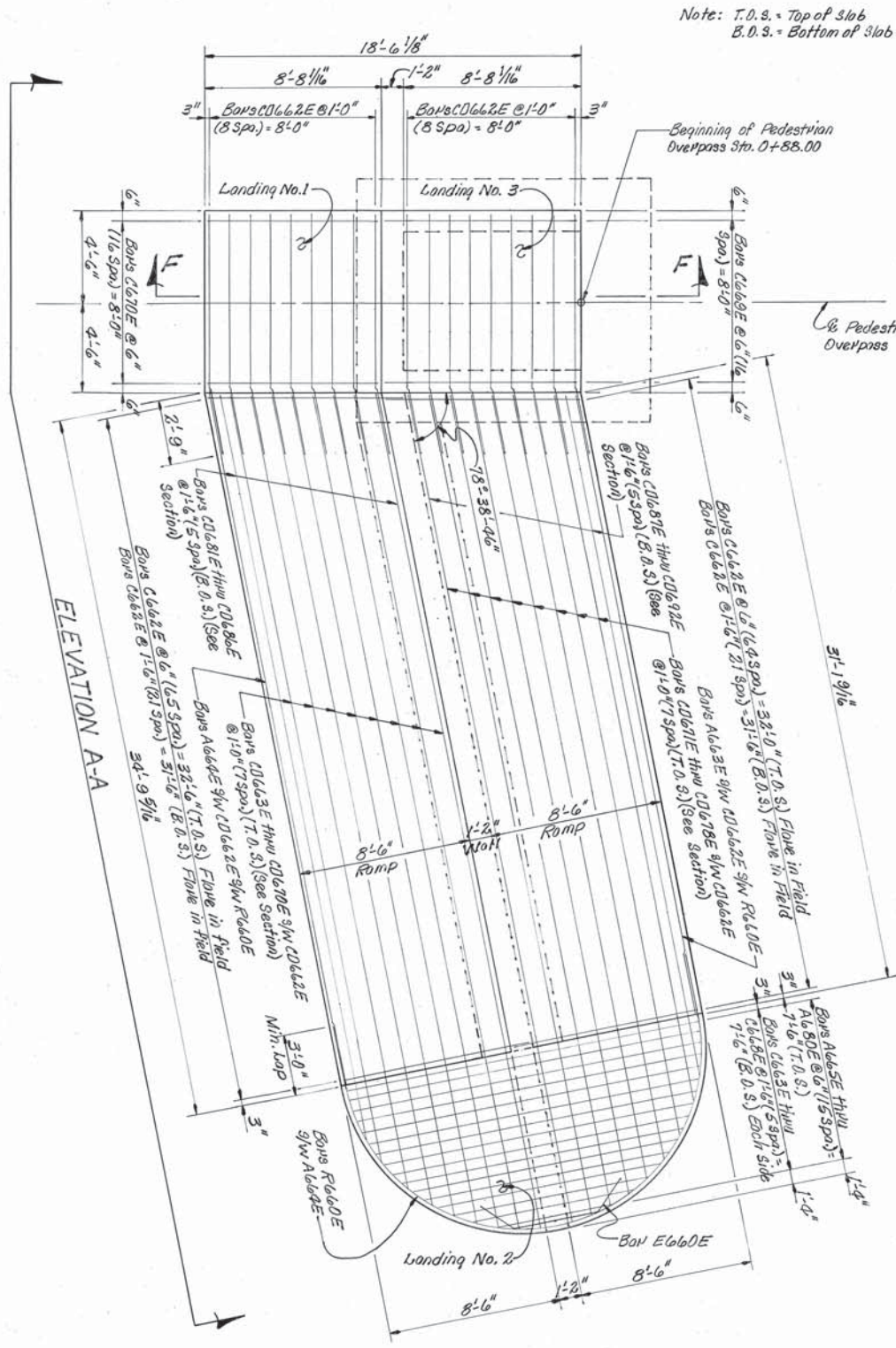
DESIGNED BY M. MORRIS DATE 1-81  
 DRAWN BY FRANK F. FROST DATE 3-81  
 SUPERVISED BY MONTGOMERY & SMITH DATE 3-81  
 CHECKED BY W.M.M. DATE 4-81

MICROFILMED



CONST. NO. 19015-3110-44

PROJECT NO.	YEAR	SHEET NO.	
I-440-4(44)212	1981	72	
REVISIONS			
NO.	DATE	BY	BRIEF DESCRIPTION
1	5-7-81	A.M.S.	General Revisions



ESTIMATED QUANTITIES A

Class "A" Concrete C.Y.	Reinforcing Steel Lbs.	Epoxy Coated Reinforcing Steel Lbs.
89.7	7,526	13,827

STATE OF TENNESSEE  
DEPARTMENT OF TRANSPORTATION  
BUREAU OF HIGHWAYS  
SOUTH RAMP DETAILS  
PEDESTRIAN OVERPASS OVER  
I-440 NEAR DORTCH AVE.  
STATION 431+11.74  
DAVIDSON COUNTY  
1981

DESIGNED BY Michael Morris DATE 2-81  
DRAWN BY W. Graves DATE 3-81  
SUPERVISED BY McInturff & Smith DATE 3-81  
CHECKED BY DATE

CORRECT *Challen L. Lovell*  
ENGINEER OF STRUCTURES  
APPROVED *Richard Evans*  
DIRECTOR OF HIGHWAYS

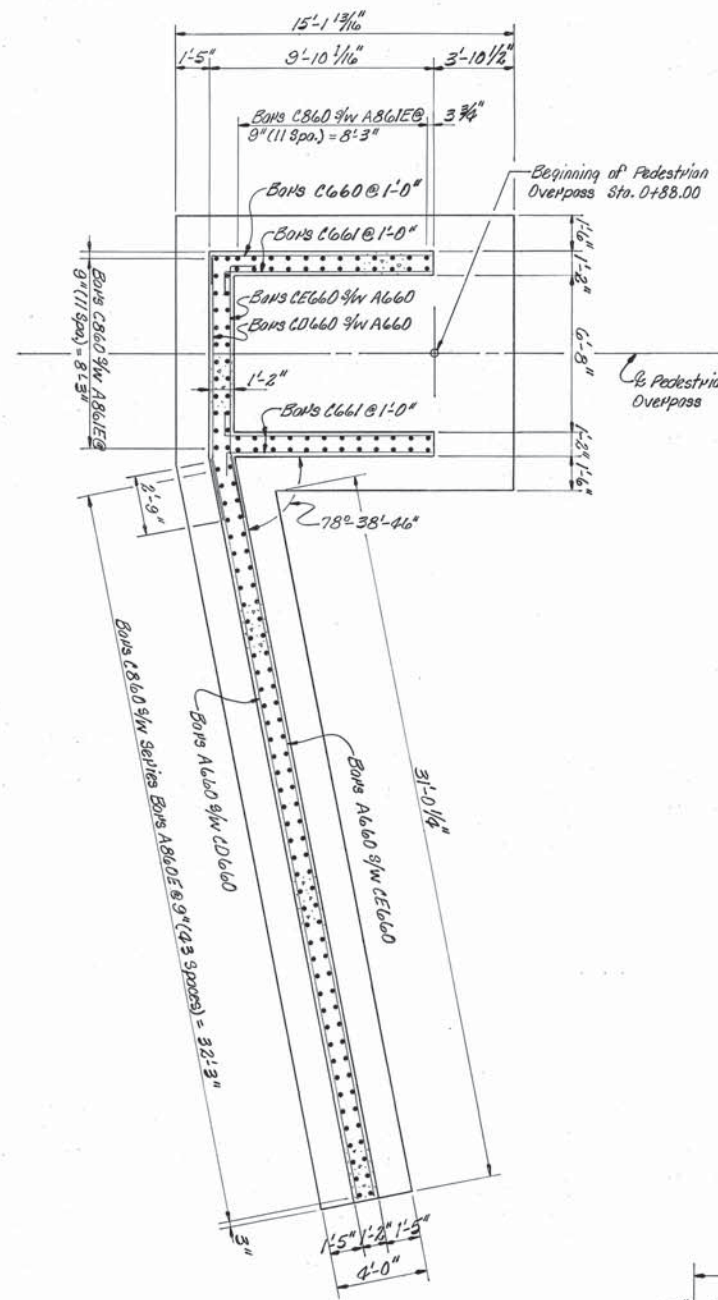
M-93-111

CONST. NO. 19015-3110-44

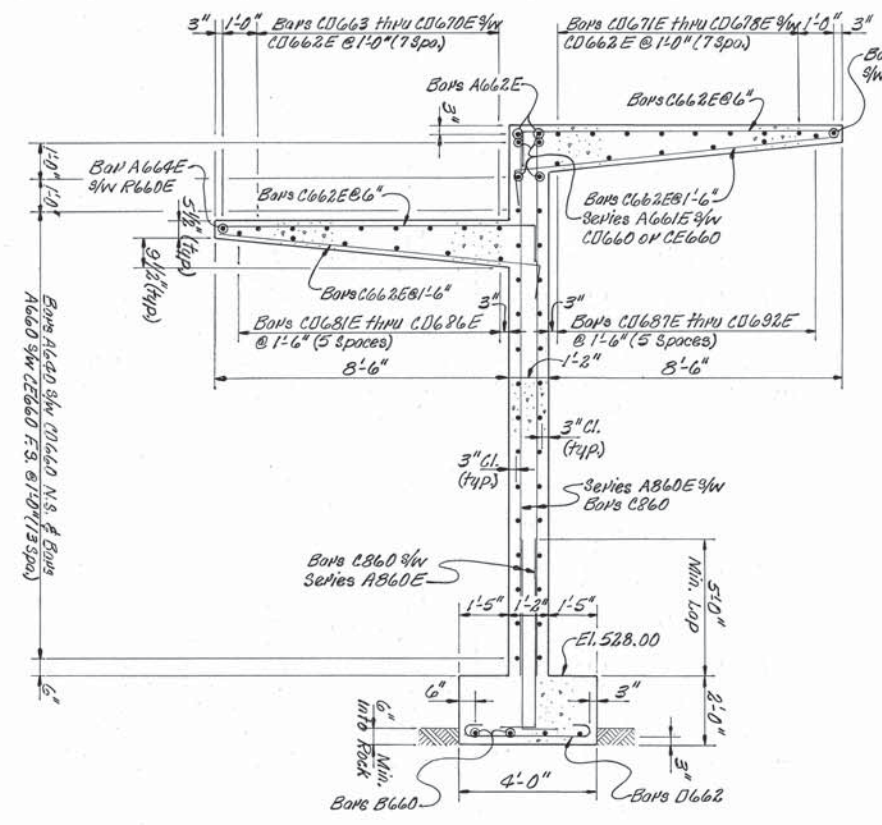
PROJECT NO.	YEAR	SHEET NO.
I-440-4(44)212	1981	73

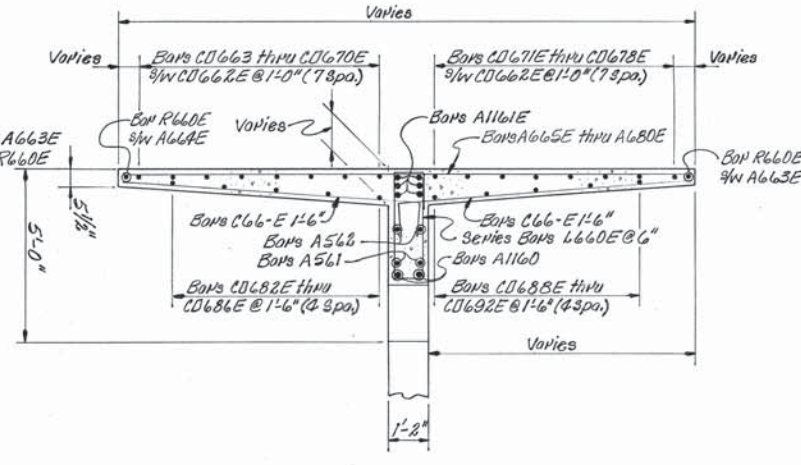
REVISIONS			
NO.	DATE	BY	BRIEF DESCRIPTION
1	5-7-81	A.M.S.	General Revisions



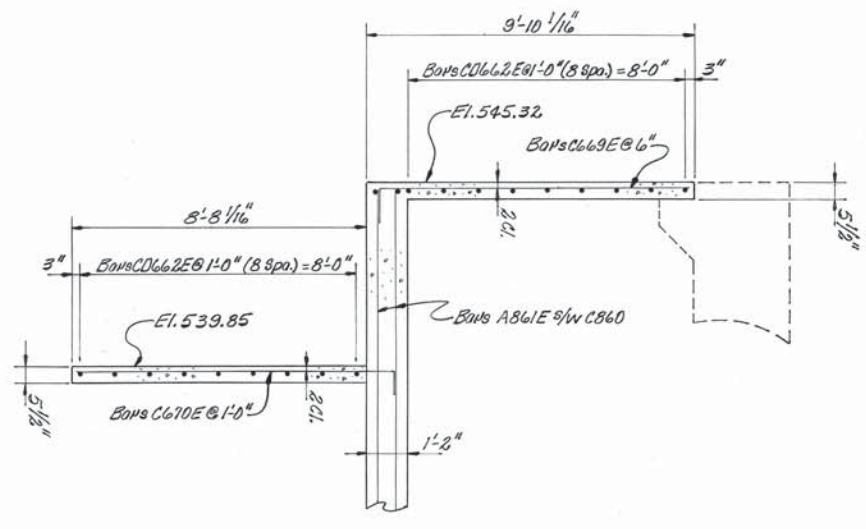
SECTION C-C Δ



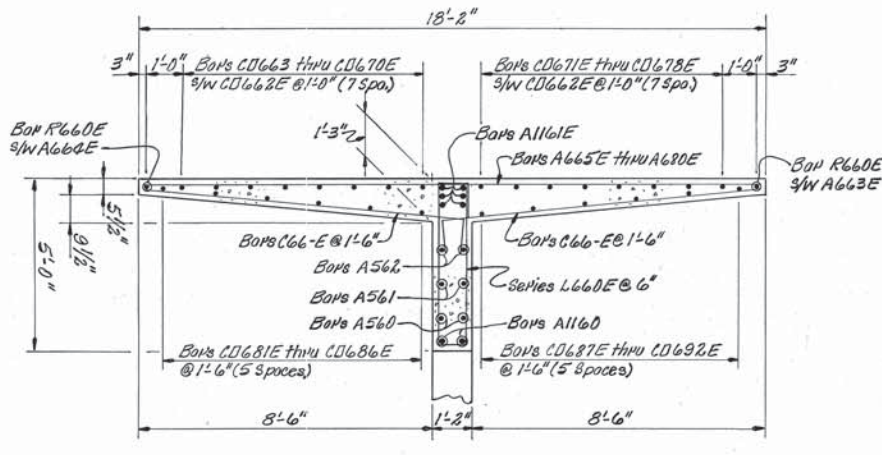
SECTION B-B Δ



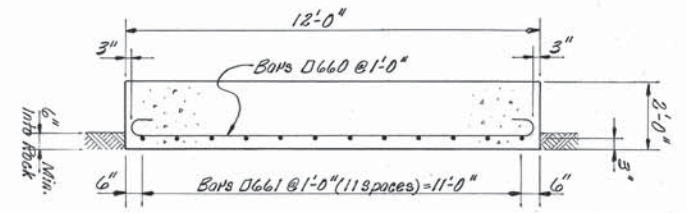
SECTION E-E Δ



SECTION F-F Δ



SECTION D-D



SECTION G-G

STATE OF TENNESSEE  
 DEPARTMENT OF TRANSPORTATION  
 BUREAU OF HIGHWAYS  
 SOUTH RAMP DETAILS  
 PEDESTRIAN OVERPASS OVER  
 I-440 NEAR DORTCH AVE.  
 STATION 437+11.74  
 DAVIDSON COUNTY  
 1981

DESIGNED BY Michael Morris DATE 2-81  
 DRAWN BY W. Coyles DATE 3-81  
 SUPERVISED BY McInturff & Smith DATE 3-81  
 CHECKED BY DATE

CORRECT *Chellon L. Laveall*  
 ENGINEER OF STRUCTURES  
 APPROVED *Revised Evans*  
 DIRECTOR OF HIGHWAYS

M-93-112

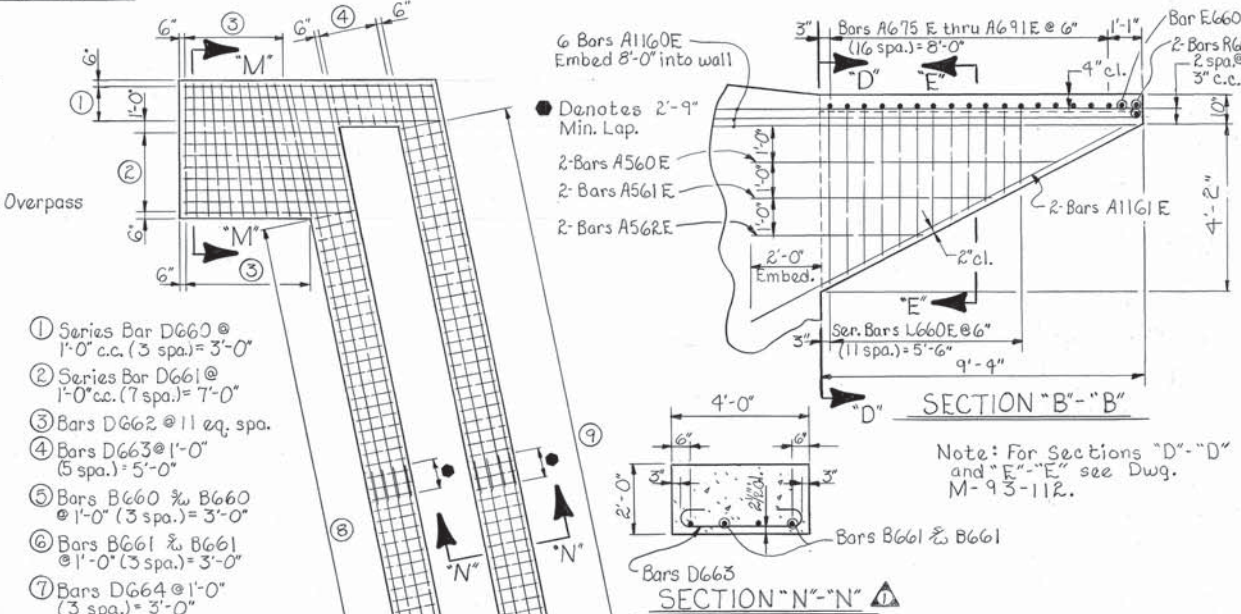
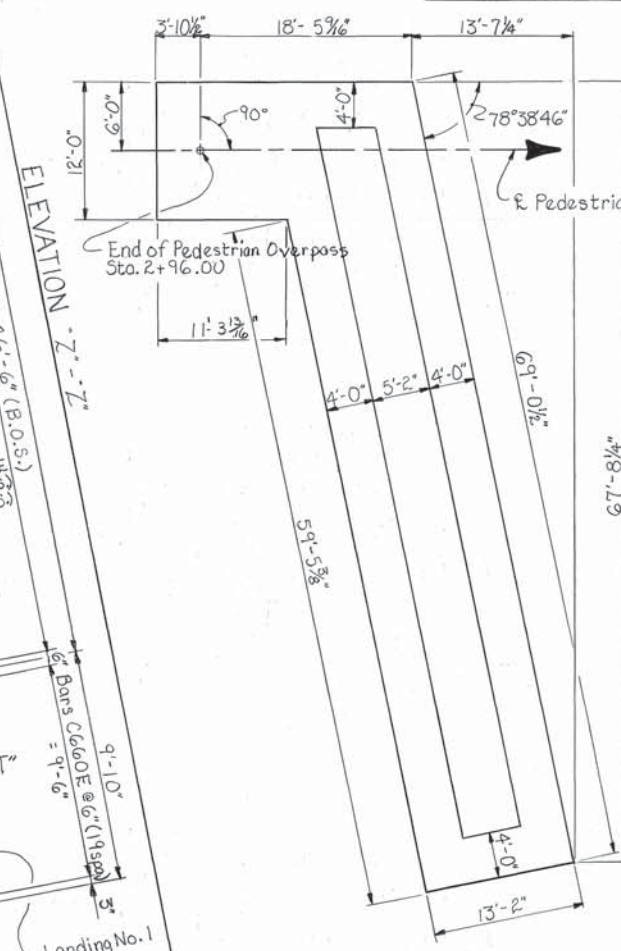
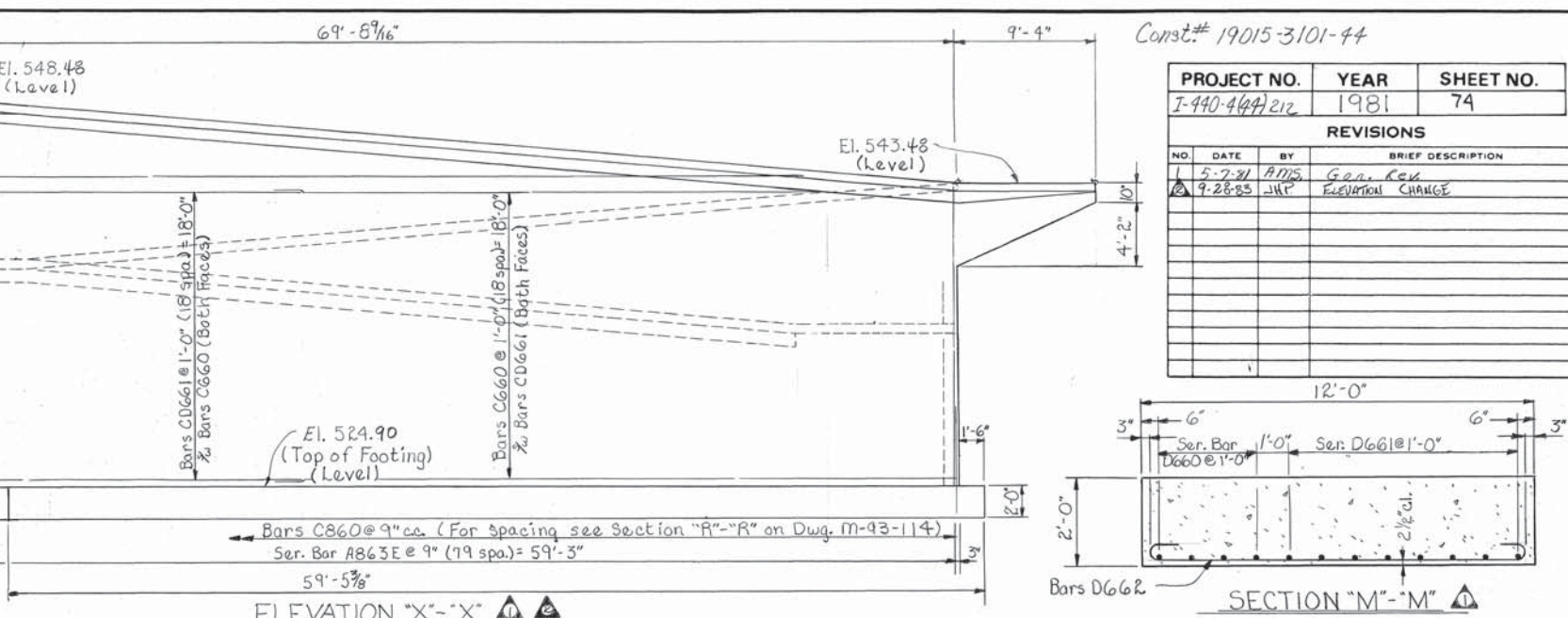
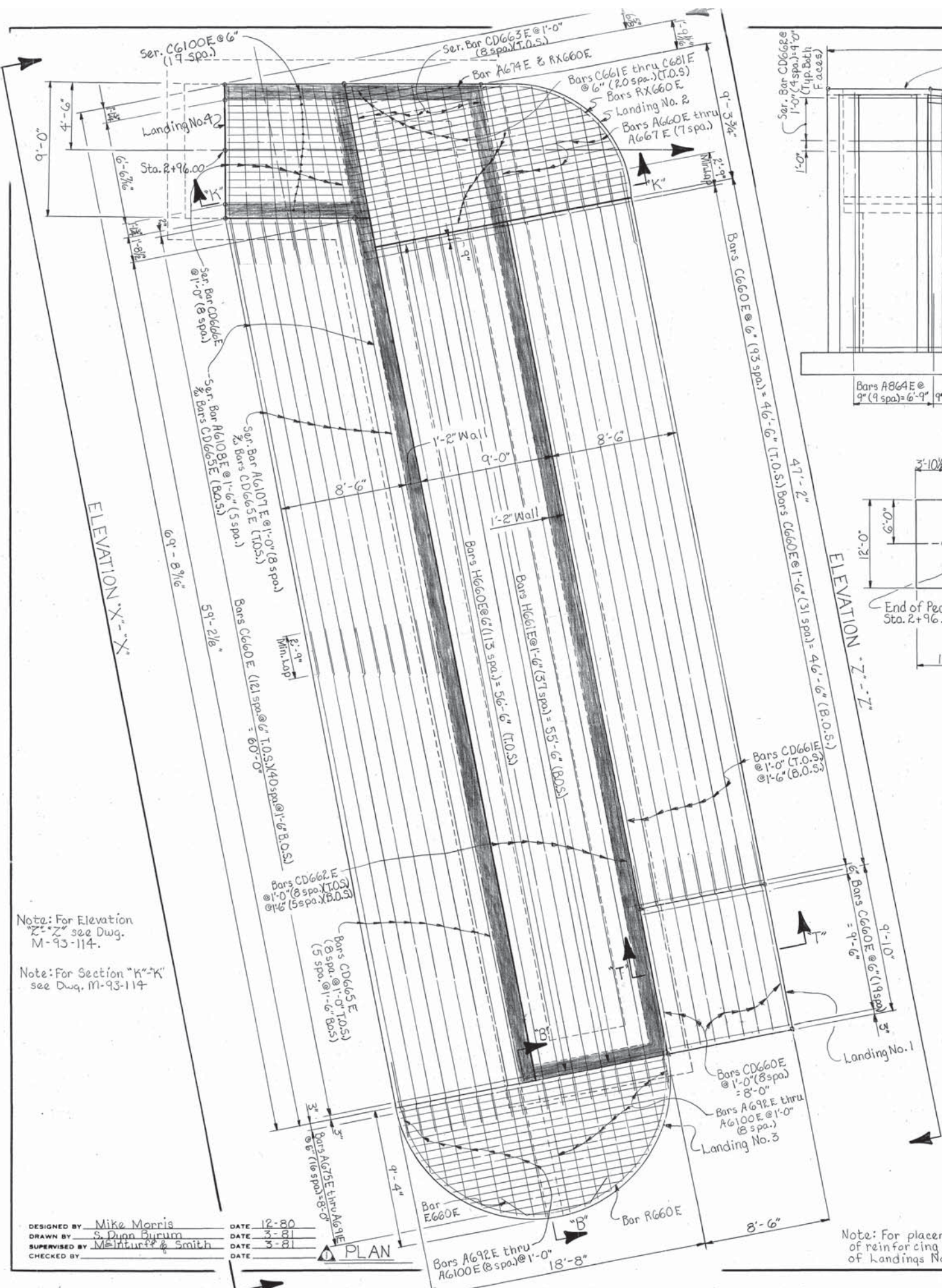
MICROFILMED

Const# 19015-3101-44

PROJECT NO.	YEAR	SHEET NO.
I-440-44A-212	1981	74

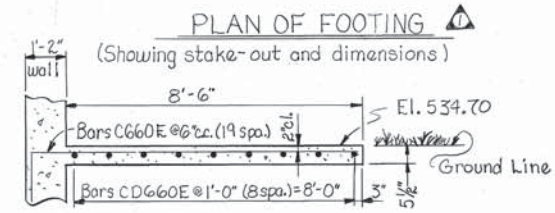
  

REVISIONS			
NO.	DATE	BY	BRIEF DESCRIPTION
1	5-7-81	ADJ	Gen. Rev
2	9-28-83	JHT	ELEVATION CHANGE



ESTIMATED QUANTITIES

Class "A" Concrete C.Y.	Reinforcing Steel Lbs.	Epoxy Coated Reinforcing Steel Lbs.
232.3	22,372	37,213



Note: For Elevation 'Z-Z' see Dwg. M-93-114.

Note: For Section 'K-K' see Dwg. M-93-114.

DESIGNED BY Mike Morris  
 DRAWN BY S. Duon Byrum  
 SUPERVISED BY McIntire & Smith  
 CHECKED BY  
 DATE 12-80  
 DATE 3-81  
 DATE 3-81

Note: For placement of reinforcing steel in bottom of slab of landings No. 2 and 3 see respective Plans on Dwg. M-93-114.

STATE OF TENNESSEE  
 DEPARTMENT OF TRANSPORTATION  
 BUREAU OF HIGHWAYS  
 NORTH RAMP DETAILS  
 PEDESTRIAN OVERPASS OVER  
 I-440 NEAR DORTCH AVE.  
 STATION 437+11.74  
 DAVIDSON COUNTY  
 1981

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

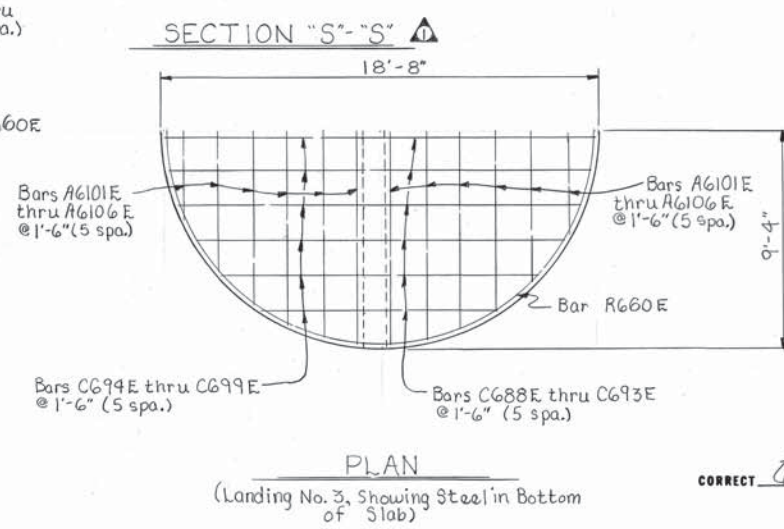
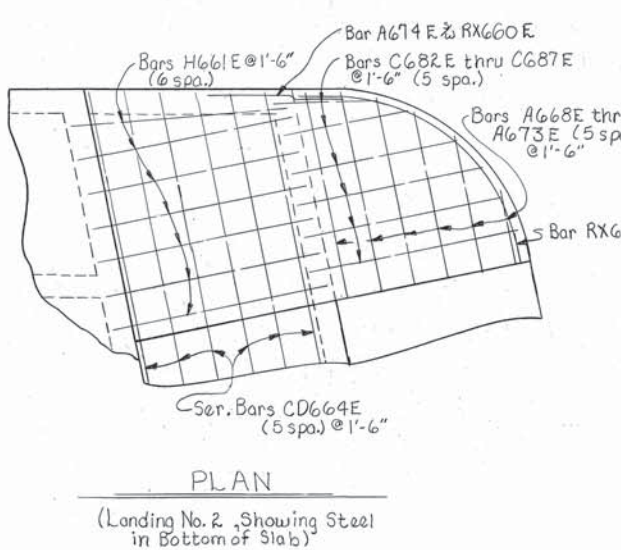
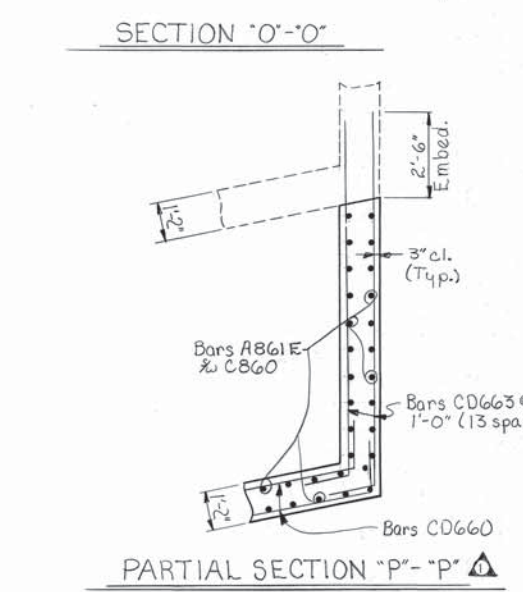
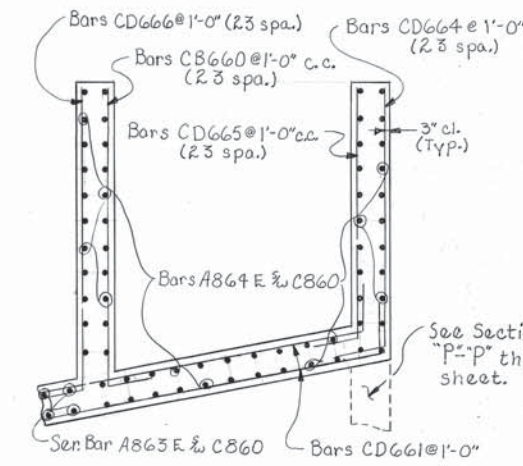
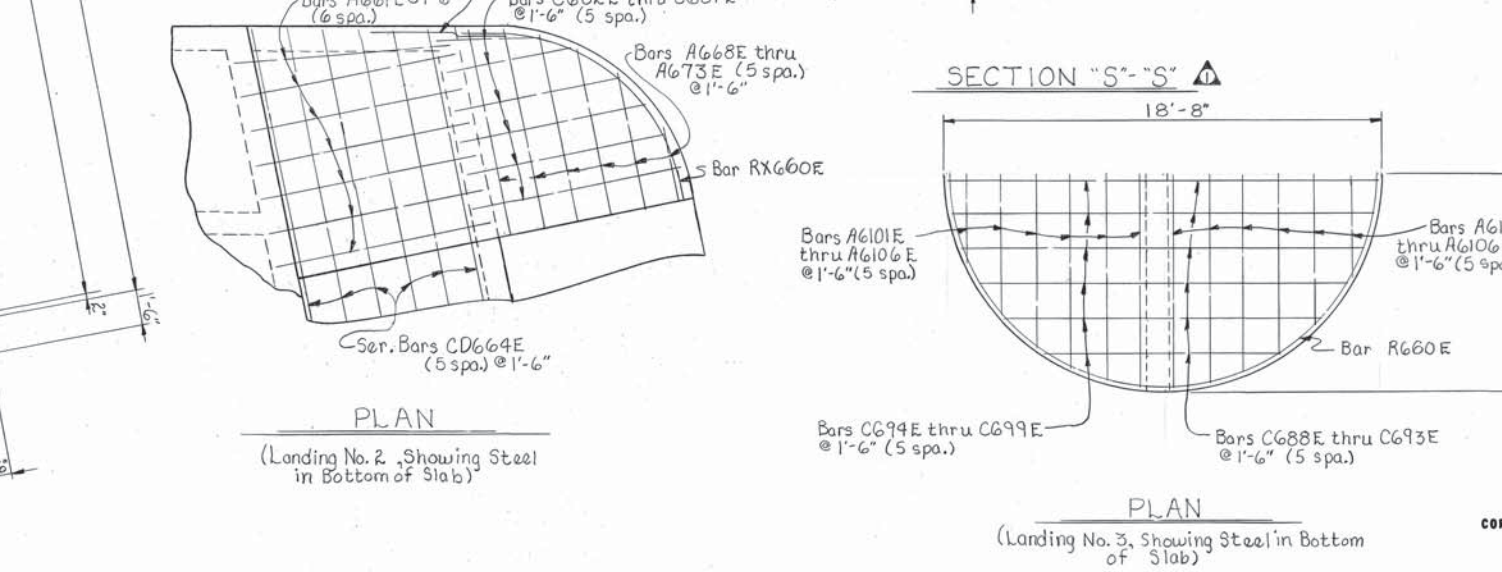
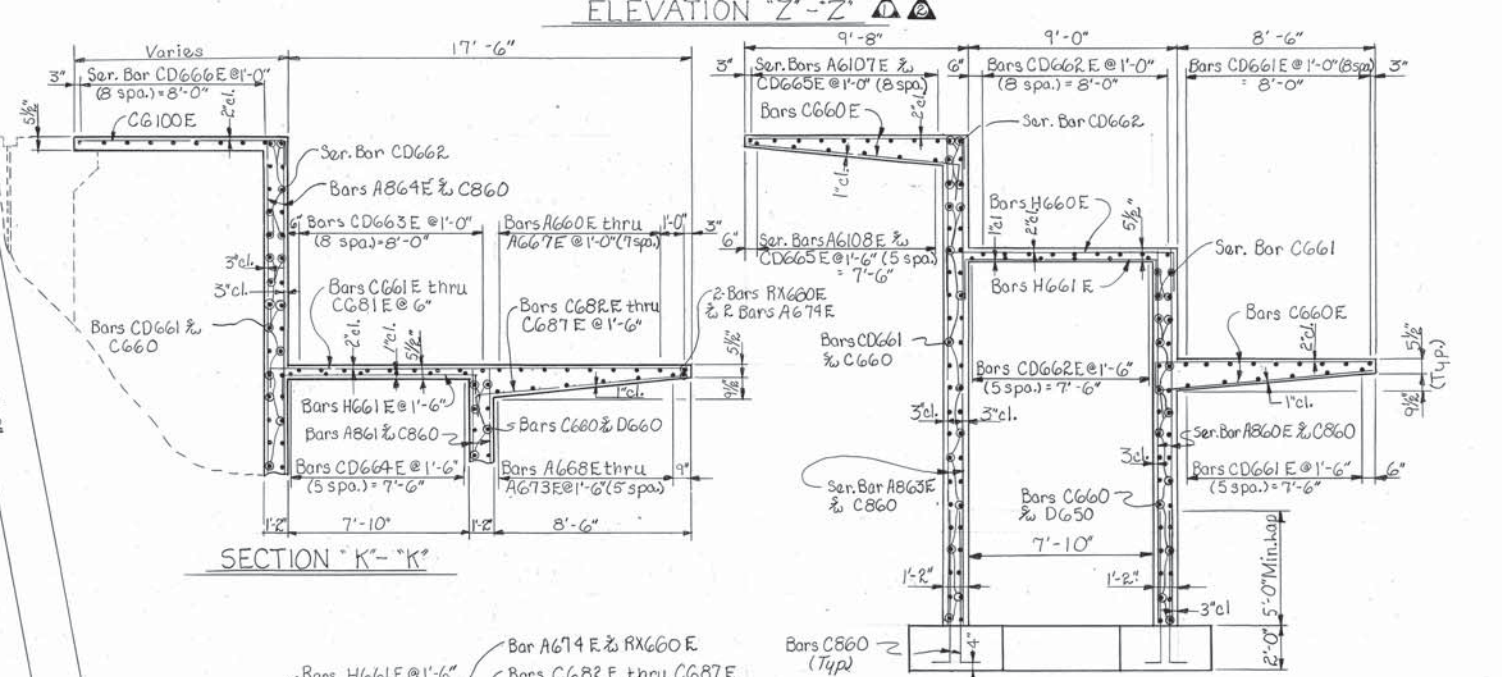
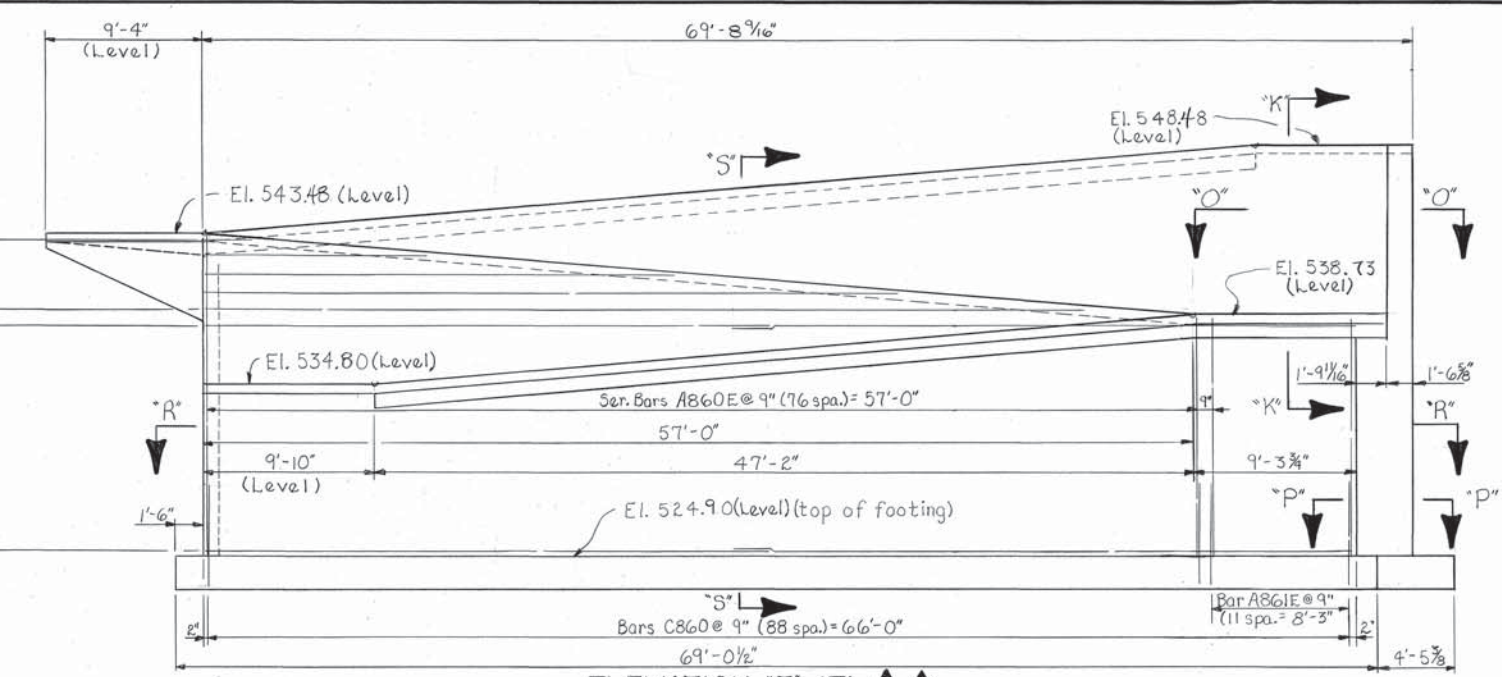
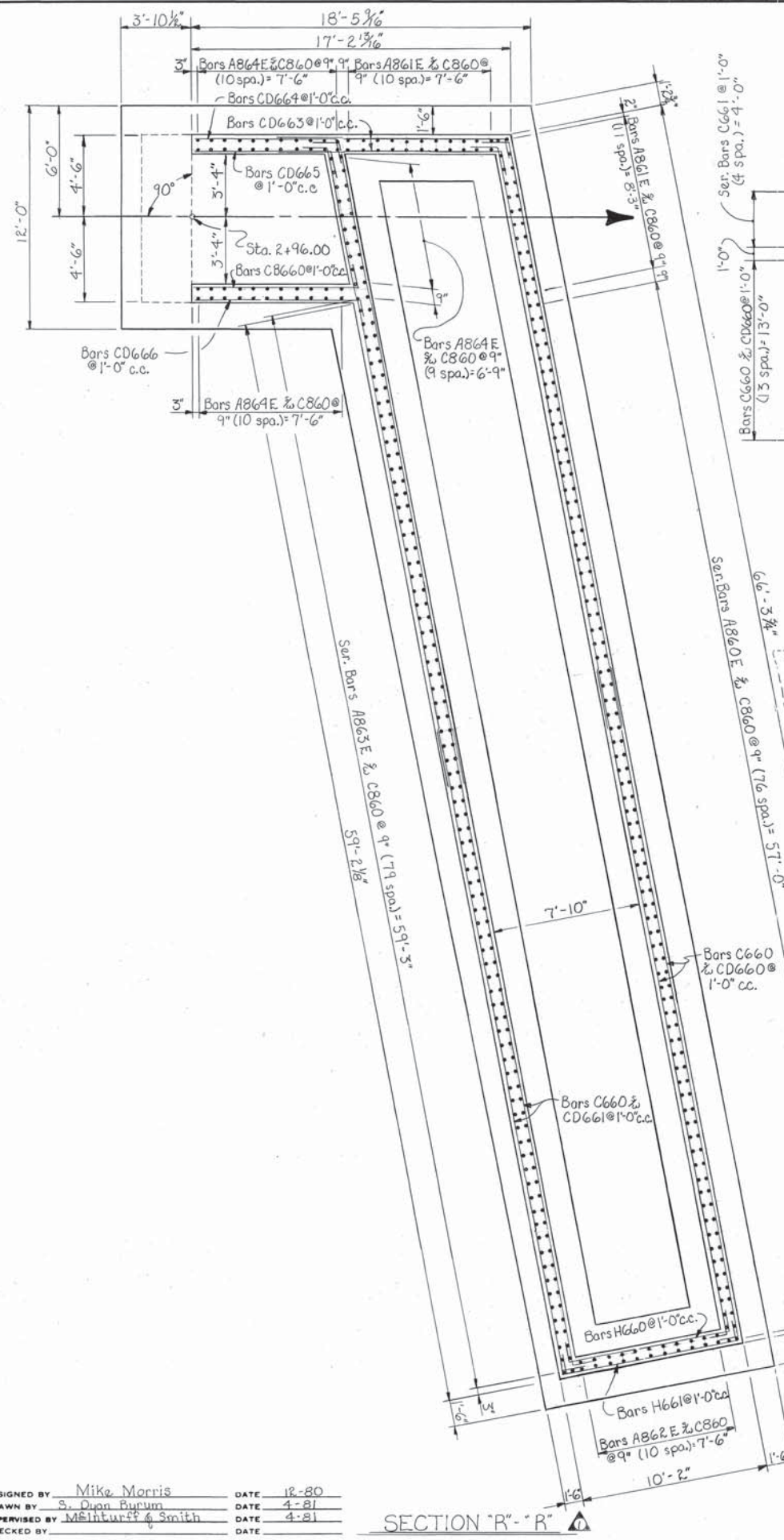
M-93-113

Const. # 19015-3110-77

PROJECT NO.	YEAR	SHEET NO.
I-440-9(44)212	1981	75

REVISIONS			
NO.	DATE	BY	BRIEF DESCRIPTION
1	5-7-81	AMS	General Rev
2	9-28-85	J.H.T.	Fluxion



STATE OF TENNESSEE  
 DEPARTMENT OF TRANSPORTATION  
 BUREAU OF HIGHWAYS  
 NORTH RAMP DETAILS  
 PEDESTRIAN OVERPASS OVER  
 I-440 NEAR DORTCH AVE.  
 STATION 437+11.74  
 DAVIDSON COUNTY  
 1981

DESIGNED BY: Mike Morris  
 DRAWN BY: S. Dion Byrum  
 SUPERVISED BY: McInturff & Smith  
 CHECKED BY: \_\_\_\_\_  
 DATE: 12-80  
 DATE: 4-81  
 DATE: 4-81  
 DATE: \_\_\_\_\_

CORRECT: *Chellon L. Lovvick*  
 ENGINEER OF STRUCTURES  
 APPROVED: *Louis Evans*  
 DIRECTOR OF HIGHWAYS  
 M-93-114

# 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.	1-440-4402	1981	76	

SUPERSTRUCTURE					ABUTMENTS NO. 1					SOUTH RAMP CONT.												
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					
A600	WEBS	6	16		15'-6"	A640	ABUT. WALL	6	52		4'-6"	A675E	LANDING 2	6	1		13'-3"					
A601	WEBS	6	80		40'-0"	A676E	LANDING 2	6	1		12'-2"	A676E	LANDING 2	6	1		12'-2"					
A602	ENDWALL & BK WALL	6	18		8'-8"	A140E	ABUT. WALL	11	27		16'-10"	A677E	LANDING 2	6	1		11'-1"					
A603	ENDWALL	6	2		4'-7"	A678E	LANDING 2	6	1		9'-9"	A678E	LANDING 2	6	1		9'-9"					
A604	ENDWALL	6	2		4'-2"	C740	FOOTING & COL.	7	9	4-1	5'-3"	A679E	LANDING 2	6	1		8'-1"					
A605	ENDWALL	6	2		3'-9"	A140E	ABUT. WALL	11	21	17-1	6'-0"	A680E	LANDING 2	6	1		5'-9"					
A606	ENDWALL	6	2		3'-5"	A140E	ABUT. WALL	11	21	17-1	6'-0"	A680E	LANDING 2	6	1		5'-9"					
A100	BOT. SLAB	11	18		60'-0"	A140E	ABUT. WALL	6	39	5-3/8	1'-0"	2-4/8	A680E	LANDING 2	6	1		16'-0"				
A101	BOT. SLAB	11	8		45'-3"																	
A102	BOT. SLAB	11	2		50'-0"																	
C600	ENDWALL & BK WALL	6	32	3'-2"	4'-2"	ABUTMENT NO. 2					A680E	LANDING 2	6	1		17'-1"						
C100	BOT. SLAB	11	8	24'-6"	26'-6"	A640	ABUT. WALL	6	76		4'-6"	C622E	RAMP	6	175	9'-3"	10'-3"					
C101	BOT. SLAB	11	2	34'-0"	36'-0"	A141	ABUT. WALL	11	15		18'-7"	C623E	LANDING 2	6	2	9'-1"	10'-11"					
C100	BOT. SLAB	11	8	17'-6"	3'-0"	A142	ABUT. WALL	11	9		18'-10"	C624E	LANDING 2	6	2	8'-10"	9'-10"					
CD500	WEBS	5	66	3'-2"	6"	178"	3'-8"	C1140	FOOTING	11	24	11'-9"	C625E	LANDING 2	6	2	8'-3"	9'-3"				
E500	BENT DIAPH.	5	2	3'-3/8"	1'-6"	F52	3'-3/4"	A140E	ABUT. WALL	6	9	8'-5"	C626E	LANDING 2	6	2	7'-4"	8'-4"				
E600	BOT. SLAB	6	100	3'-4"	2'-2"	2-1/8"	4-3/4"	L641	ABUT. WALL	6	38	5'-5/8"	1'-0"	2-4/8	C627E	LANDING 2	6	2	5'-10"	6'-10"		
E601	BOT. SLAB	6	77	2'-4"	2'-2"	2-1/8"	4-3/4"	L641	ABUT. WALL	6	38	5'-5/8"	1'-0"	2-4/8	C628E	LANDING 3	6	17	9'-5"	10'-5"		
H500	PAY. BRACKET	5	9	3'-5"	6"	4'-5"		CD646E	WALL	6	1	8'-10"	2'-9"	7"	CD646E	LANDING 1 & 3	6	18	8'-10"	2'-9"	8"	11'-7"
H501	PAY. BRACKET	5	9	1'-8"	6"	2'-7"		CD647E	RAMP	6	1	34'-6"	4'-1"	4-3/8"	CD647E	RAMP	6	1	34'-6"	4'-1"	4-3/8"	38'-7"
L500	BENT DIAPH.	5	1	2'-0"	1'-0"	4'-1"	13'-11"	CD648E	RAMP	6	1	54'-4"	5'-8"	5-3/4"	CD648E	RAMP	6	1	54'-4"	5'-8"	5-3/4"	40'-0"
L501	BENT DIAPH.	5	1	2'-0"	1'-0"	3'-6"	11'-11"	CD649E	RAMP	6	1	34'-2"	6'-8"	6-3/8"	CD649E	RAMP	6	1	34'-2"	6'-8"	6-3/8"	40'-10"
A400E	TOP SLAB	4	462		8'-8"	C1150	COL. & FOOTING	11	24	12'-4"	14'-4"	CD650E	RAMP	6	1	33'-11"	7'-4"	7-3/8"	41'-3"			
A600E	TOP SLAB	6	2		20'-6"	D950	FOOTING	9	18	11'-6"	14'-0"	CD651E	RAMP	6	1	33'-9"	8'-0"	8-3/8"	41'-9"			
A601E	TOP SLAB	6	10		40'-0"	D951	FOOTING	9	12	17'-6"	20'-0"	CD652E	RAMP	6	1	33'-5"	8'-8"	8-3/8"	42'-1"			
A607E	BACKWALL	6	2		8'-8"	SERIES	COLUMN	5	1	1'-0"	3'-12'-1"	CD653E	RAMP	6	1	33'-2"	8'-10"	8-3/4"	42'-0"			
A100E	TOP SLAB	11	16		48'-0"	L550	COL. & FOOTING	11	24		31'-9"	CD654E	RAMP	6	1	31'-8"	5'-8"	5-3/4"	37'-4"			
A100E	TOP SLAB	11	8		60'-0"							CD655E	RAMP	6	1	31'-10"	6'-9"	6-3/4"	38'-7"			
A100E	TOP SLAB	11	16		35'-0"							CD656E	RAMP	6	1	32'-1"	7'-6"	7-1/2"	39'-7"			
A100E	TOP SLAB	11	2		50'-0"							CD657E	RAMP	6	1	32'-3"	8'-1"	8-1/8"	40'-4"			
A100E	TOP SLAB	11	11		32'-0"							CD658E	RAMP	6	1	32'-5"	8'-5"	8-1/2"	40'-10"			
												CD659E	RAMP	6	1	32'-8"	8'-8"	8-3/8"	41'-4"			
												CD660E	RAMP	6	1	32'-10"	8'-10"	8-3/8"	41'-8"			
												CD661E	RAMP	6	1	34'-6"	3'-0"	3-1/4"	37'-6"			
												CD662E	RAMP	6	1	34'-4"	5'-8"	5-3/4"	40'-0"			
												CD663E	RAMP	6	1	34'-1"	7'-1"	7-3/8"	41'-2"			
												CD664E	RAMP	6	1	33'-9"	8'-0"	8-3/8"	41'-9"			
												CD665E	RAMP	6	1	33'-6"	8'-7"	8-3/8"	42'-1"			
												CD666E	RAMP	6	1	33'-2"	8'-10"	8-3/4"	42'-0"			
												CD667E	RAMP	6	1	31'-5"	4'-3"	4-3/4"	35'-8"			
												CD668E	RAMP	6	1	31'-8"	5'-8"	5-3/4"	37'-4"			
												CD669E	RAMP	6	1	31'-10"	6'-9"	6-3/4"	38'-7"			
												CD670E	RAMP	6	1	32'-1"	7'-6"	7-1/2"	39'-7"			
												CD671E	RAMP	6	1	32'-3"	8'-1"	8-1/8"	40'-4"			
												CD672E	RAMP	6	1	32'-5"	8'-5"	8-1/2"	40'-10"			
												CD673E	RAMP	6	1	32'-8"	8'-8"	8-3/8"	41'-4"			
												CD674E	RAMP	6	1	32'-10"	8'-10"	8-3/8"	41'-8"			
												CD675E	RAMP	6	1	34'-6"	3'-0"	3-1/4"	37'-6"			
												CD676E	RAMP	6	1	34'-4"	5'-8"	5-3/4"	40'-0"			
												CD677E	RAMP	6	1	33'-9"	8'-0"	8-3/8"	41'-9"			
												CD678E	RAMP	6	1	33'-6"	8'-7"	8-3/8"	42'-1"			
												CD679E	RAMP	6	1	33'-2"	8'-10"	8-3/4"	42'-0"			
												CD680E	RAMP	6	1	31'-5"	4'-3"	4-3/4"	35'-8"			
												CD681E	RAMP	6	1	31'-8"	5'-8"	5-3/4"	37'-4"			
												CD682E	RAMP	6	1	31'-10"	6'-9"	6-3/4"	38'-7"			
												CD683E	RAMP	6	1	32'-1"	7'-6"	7-1/2"	39'-7"			
												CD684E	RAMP	6	1	32'-3"	8'-1"	8-1/8"	40'-4"			
												CD685E	RAMP	6	1	32'-5"	8'-5"	8-1/2"	40'-10"			
												CD686E	RAMP	6	1	32'-8"	8'-8"	8-3/8"	41'-4"			
												CD687E	RAMP	6	1	32'-10"	8'-10"	8-3/8"	41'-8"			
												CD688E	RAMP	6	1	34'-6"	3'-0"	3-1/4"	37'-6"			
												CD689E	RAMP	6	1	34'-4"	5'-8"	5-3/4"	40'-0"			
												CD690E	RAMP	6	1	33'-9"	8'-0"	8-3/8"	41'-9"			
												CD691E	RAMP	6	1	33'-6"	8'-7"	8-3/8"	42'-1"			
												CD692E	RAMP	6	1	33'-2"	8'-10"	8-3/4"	42'-0"			
												CD693E	RAMP	6	1	31'-5"	4'-3"	4-3/4"	35'-8"			
												CD694E	RAMP	6	1	31'-8"	5'-8"	5-3/4"	37'-4"			
												CD695E	RAMP	6	1	31'-10"	6'-9"	6-3/4"	38'-7"			
												CD696E	RAMP	6	1	32'-1"	7'-6"	7-1/2"	39'-7"			
												CD697E	RAMP	6	1	32'-3"	8'-1"	8-1/8"	40'-4"			
												CD698E	RAMP	6	1	32'-5"	8'-5"	8-1/2"	40'-10"			
												CD699E	RAMP	6	1	32'-8"	8'-8"	8-3/8"	41'-4"			
												CD700E	RAMP	6	1	32'-10"	8'-10"	8-3/8"	41'-8"			
												CD701E	RAMP	6	1	34'-6"	3'-0"	3-1/4"	37'-6"			
												CD702E	RAMP	6	1	34'-4"	5'-8"	5-3/4"	40'-0"			
												CD703E	RAMP	6	1	33'-9"	8'-0"	8-3/8"	41'-9"			
												CD704E	RAMP	6	1	33'-6"	8'-7"	8-3/8"	42'-1"			
												CD705E	RAMP	6	1	33'-2"	8'-10"	8-3/4"	42'-0"			
												CD706E	RAMP	6	1	31'-5"	4'-3"					