

FLORIDA DEPARTMENT OF TRANSPORTATION STRUCTURES DESIGN OFFICE

STANDARD DRAWINGS

1990 EDITION



FLORIDA DEPARTMENT OF TRANSPORTATION

STRUCTURES DESIGN OFFICE

STANDARDS 1990

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FLORIDA DEPARTMENT OF TRANSPORTATION STRUCTURES DESIGN OFFICE

PREFACE

These Standard Drawings were produced with the use of our Computer Aided Design and Drafting (CADD) equipment.

The drawings herein depict common structural components or elements suitable for standardization. Whenever possible the drawings were developed to full completion, that is they are ready for insertion in the Contract Documents. These drawings are commonly referred to as "Standards" (Index Number).

Some other drawings are not fully developed and should, therefore, be completed by the designer prior to their inclusion in the Contract Documents. These draw—ing are commonly referred to as "Semi—Standards" (S—Index Number).

Some occasions may arise where the designer will need to alter a "Standard" drawing to suit a particular design. In this event the designer may proceed as follows:

- I.- Produce a new project specific drawing using the "Standard" as a guide, or .
- 2.— Obtain a reproducible copy of the "Standard" and perform the needed modications on the reproducible copy. At this time, the drawing will cease to be a "Standard" and the original index number and initials (designers and others) shall be deleted, or .*
- 3.— Show the modifications on a separate sheet and provide cross—reference notes stating that the "Standard" is subject to modifications shown on another sheet.

It should be clearly understood that any modification to a "Standard" transfers the responsibility for that drawing to the designer, <u>in total</u>, and requires his seal and signature.

The number indicates the year.

If the letter "R" is added, the

drawing issued the previous year

was revised.

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SHEET TITLE:	DRAWING NO.
PREFACE	101
PROJECT NAME:	INDEX NO.
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INSTRUCTIONAL NOTES

GENERAL® This Instructional Drawing has been prepared for use with prestressed beam Semi-Standard Drawings Nos. S-102 thru S-106, S-111, S-112 and S-113 and depicts only those portions of the Semi-Standards that would normally require design input for completion of the drawings. The Semi-Standards must be used in conjunction with the appropriate "TYPICAL NOTES AND DETAILS" sheet(s) (Standard Drawing Nos. 100, 101 and 110), however, a single Standard Drawing may suffice for many Semi-Standards. When completed, the Semi-Standards used in conjunction with the appropriate Standard drawings, provide sufficient information to the Contractor to permit beam fabrication from the design plans without requiring a formal Shop Drawing submittal subject to compliance with the requirements of the Specifications. The following list describes the Standard Drawings and the appropriate Semi-Standards to which they relates

 Standard Drawing No.
 Use with Semi-Standard Drawings No.

 100
 S-102, S-103 and/or S-104

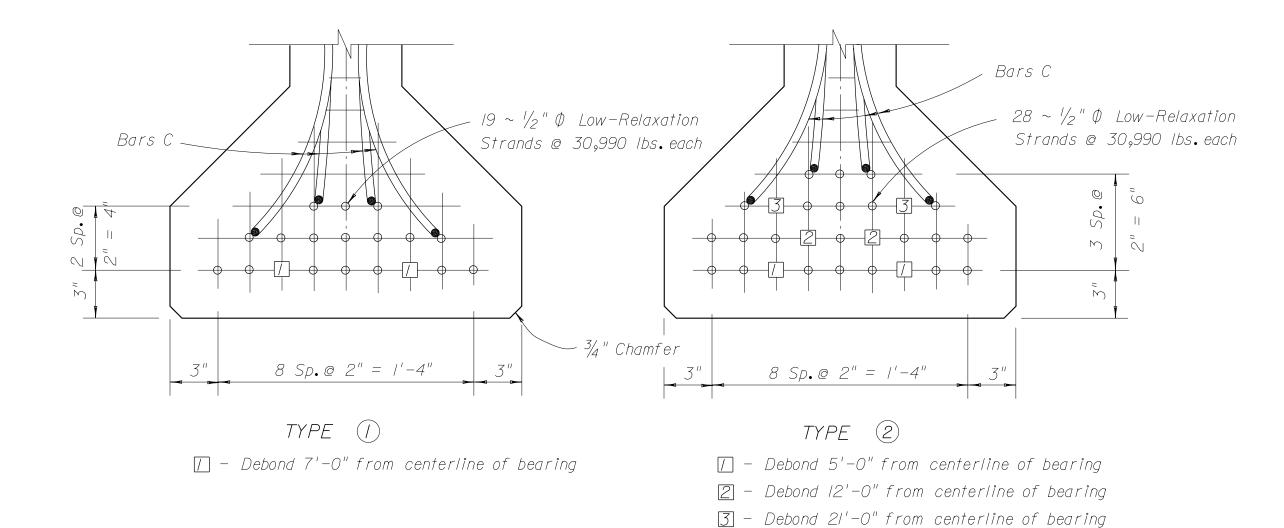
 101
 S-105 and/or S-106

 110
 S-111, S-112 and/or S-113

EXAMPLE: This example drawing shows the data required to complete a Type III beam detail sheet for a hypothetical grade separation structure to be constructed on a due North bearing, a +1.50% tangent grade, a 25°00'00" Rt. skew, end spans of 52'-0" and two (2) interior spans of 75'-6". Beams "BIB" thru "B4B" are exterior beams and Beams "BIA" thru "B4A" are interior beams for spans I thru 4. Site conditions dictate special bearing locations at the end of the bridge. The method of showing the following listed information is noteworthy:

- l. The debonded strand locations and debonding lengths.
- 2. The locations and placement of Bars C in the bottom flange.
- 3. The beam and skew.
- 4. The beam and bevel.
- 5. The designation of plates on exterior beams.
- 6. The use of stirrup spacing "S6" and the corresponding dimension "V" to show the special "make-up" dimension and to show how even and odd numbers of stirrup spacings (i.e., the end and interior span beams, respectively) can be handled.
- 7. The use of double lines of referenced, selected data to describe differences in end of beam geometry.

OTHER CONSIDERATIONS: When the actual number of beams or strand patterns exceed those that can be accommodated on a single semi-standard sheet, use additional semi-standard sheets or provide a new drawing showing an expanded "Table of Beam Variables" and any required additional strand patterns. If special conditions require dimensions or details not covered in the Table as provided, add additional columns to the Table as required.



STRAND PATTERNS AND DEBONDING SCHEDULE

(Showing treatment of Bars C in Bottom flange)

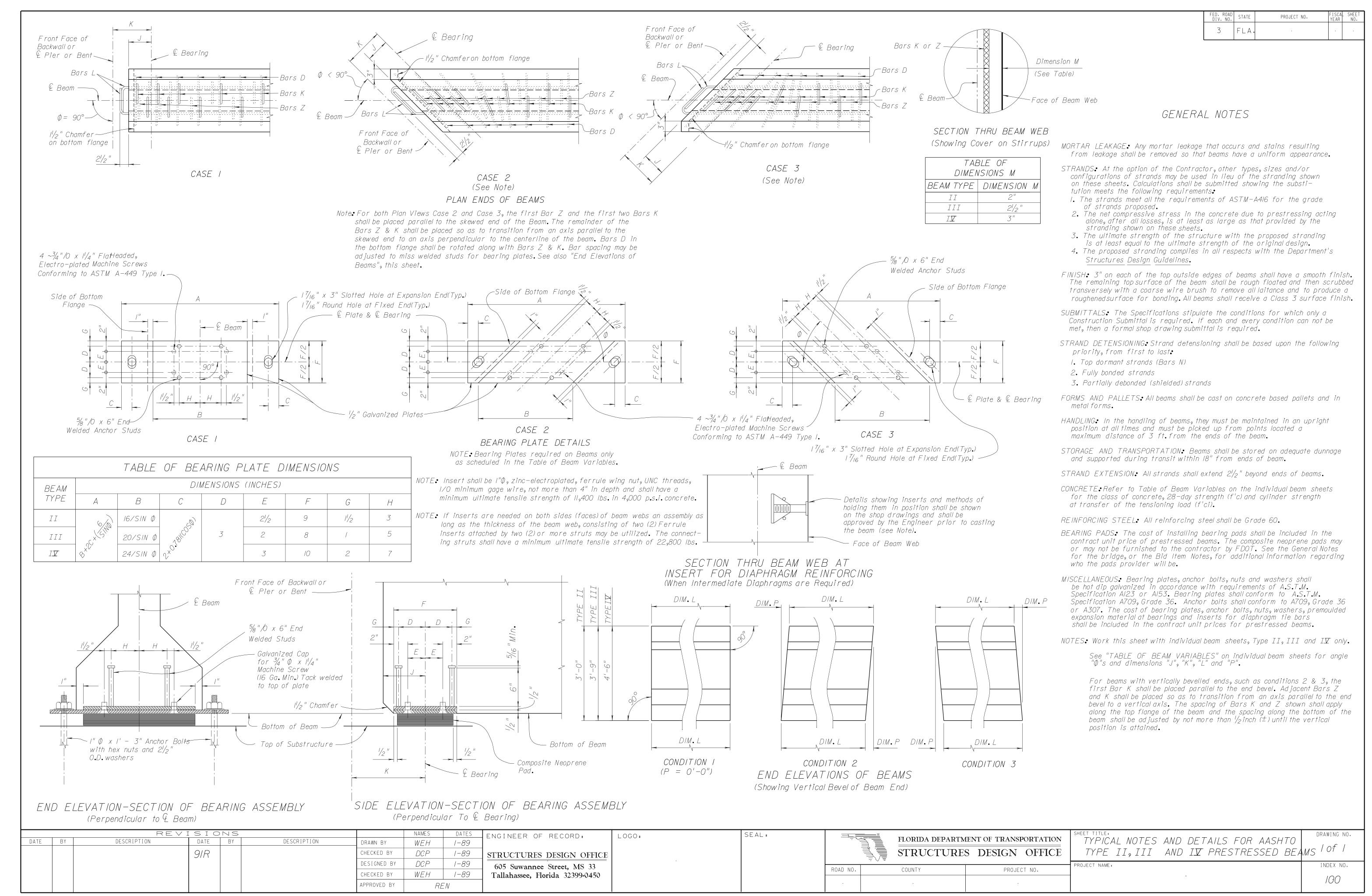
NOTE: O -Indicates fully bonded strands.

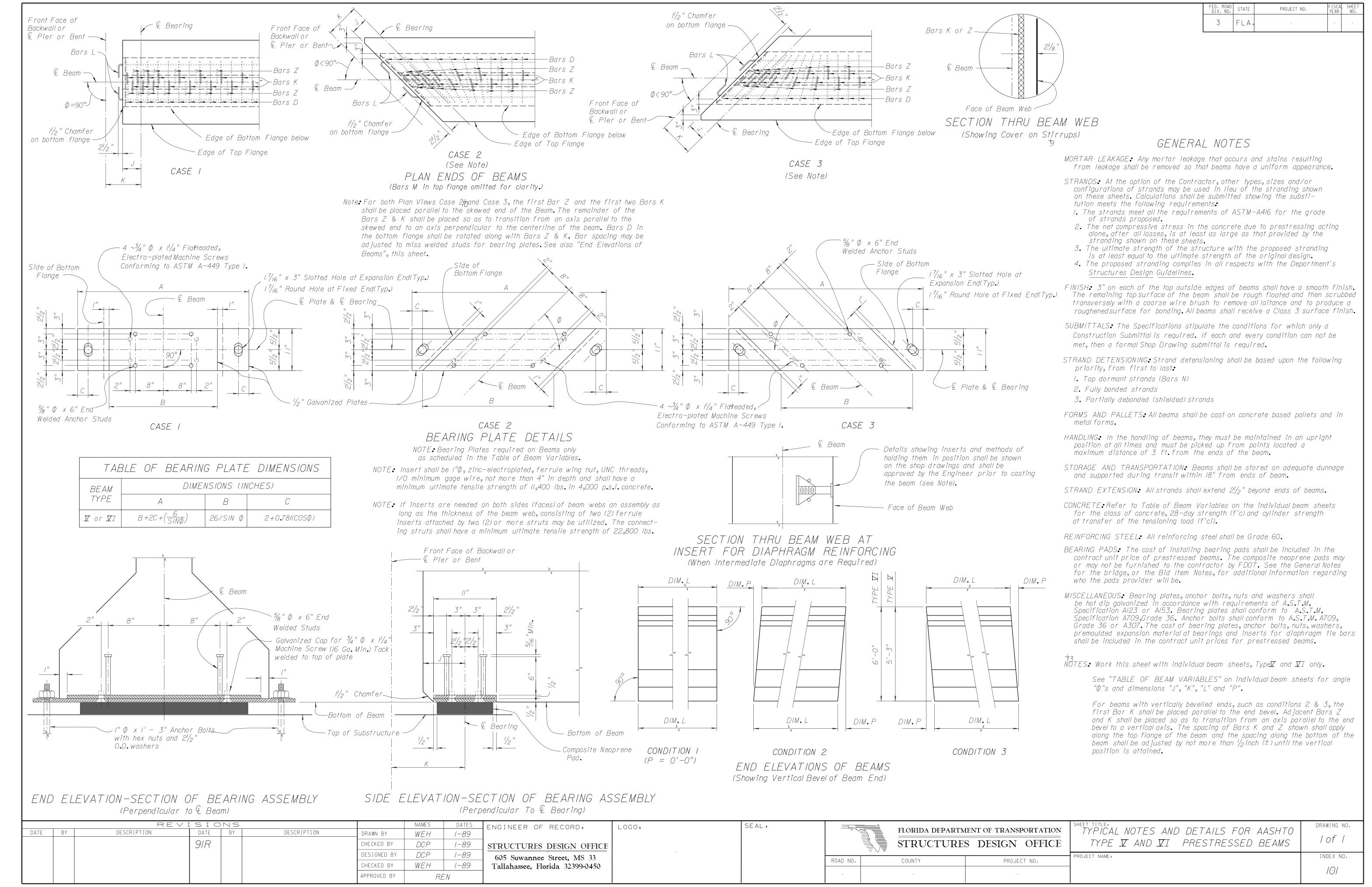
 Indicates referenced pair of strands to be debonded the length shown, measured from the centerline of bearing.

	TABLE OF BEAM VARIABLES															/	REINFORCING STEEL												
BEAM		CRETE PRO	OPERTIES ENGTHS		PLAN VIEW		BRG. PLATE			AM AND ENSION		BEAM	DIMENS	IONS			R OI			K	DIAPHRAGI		I	CATIONS NS/FS			C	K	N
/D• *	CLASS	REL. (f'ci)		TYPE						DIM J		DIM L	DIM R	DIM V	SI	52	<i>S3</i>	54	S5	<i>S</i> 6	DIM XI DI	M X2	DIM Y	#/ #		C	APPROX, LENGTH	REQ'D	LENGTH
BIA	IV	4,000	5,500		3	2	_	65° 00′ 00″	11/16 "	61/2"	//"	51'-23/4"	5/8 "	107/8"	25	4	4	4	3	/	_	_	_	_ -	Black	10'-0"	23'-2"	83	5/'-8"
BIB	IV	4,000	5,500		3	2	3	65° 00′ 00″	11/16 "	61/2"	//"	51'-23/4"	5/8 "	107/8"	25	4	4	4	3	/	-	_	_		Black	10'-0"	23'-2"	83	5/'-8"
B2A, B3A	IV	4,200	5,500	2	3	2	-	65° 00′ 00″	11/16 "	61/2"	//"	74'-91/4"	11/8"	51/8"	37	7	6	5	5	1/2	-	_	_		Black	//'-6"	26'-1"	122	75'-2"
B2B, B3B	IV	4,200	5,500	2	3	2	3	65° 00′ 00″	11/16 "	61/2"	//"	74'-91/4"	11/8"	51/8"	37	7	6	5	5	1/2	-	_	_		Black	//'-6"	26'-1"	122	75'-2"
B4A (S)	IV	4,000	5,500		3	2	-	65° 00′ 00″	11/16 "	6½" 7	//" /// ₂ "	51'-2 ³ / ₄ "	5/, "	107/8 "	25	4	4	4	3	/	-	_	_		Black	10'-0"	23'-2"	83	5/'-8"
B4B (S)	IV	4,000	5,500		3	2	3	65° 00′ 00″	11/16 "	6½" 7	11"	51'-2 ³ / ₄ "	5/8 "	107/8"	25	4	4	4	3	/	_	_	_		Black	10'-0"	23'-2"	83	5/'-8"

* (S) and (N) refer to the South and North ends, respectively, of Beams in Span No. 4.

DATE BY DESCRIPTION DATE BY DESCRIPTION 90	NAMES DATES DRAWN BY JSP 3-90 CHECKED BY DESIGNED BY DEAU 3-90 CENTRAL OFFICE	FLORIDA DEPARTMENT OF TRANSPORTATION STRUCTIONS STRUCTURES DESIGN OFFICE SHEET TITLE: PRESTRESSED BEAM INSTRUCTIONS	DRAWING NO.
	DESIGNED BY REN 3-90 CHECKED BY APPROVED BY REN CENTRAL OFFICE 605 Suwannee Street, MS 33 Tallahassee, Florida 32399-0450	ROAD NO. COUNTY PROJECT NO.	INDEX NO. -099





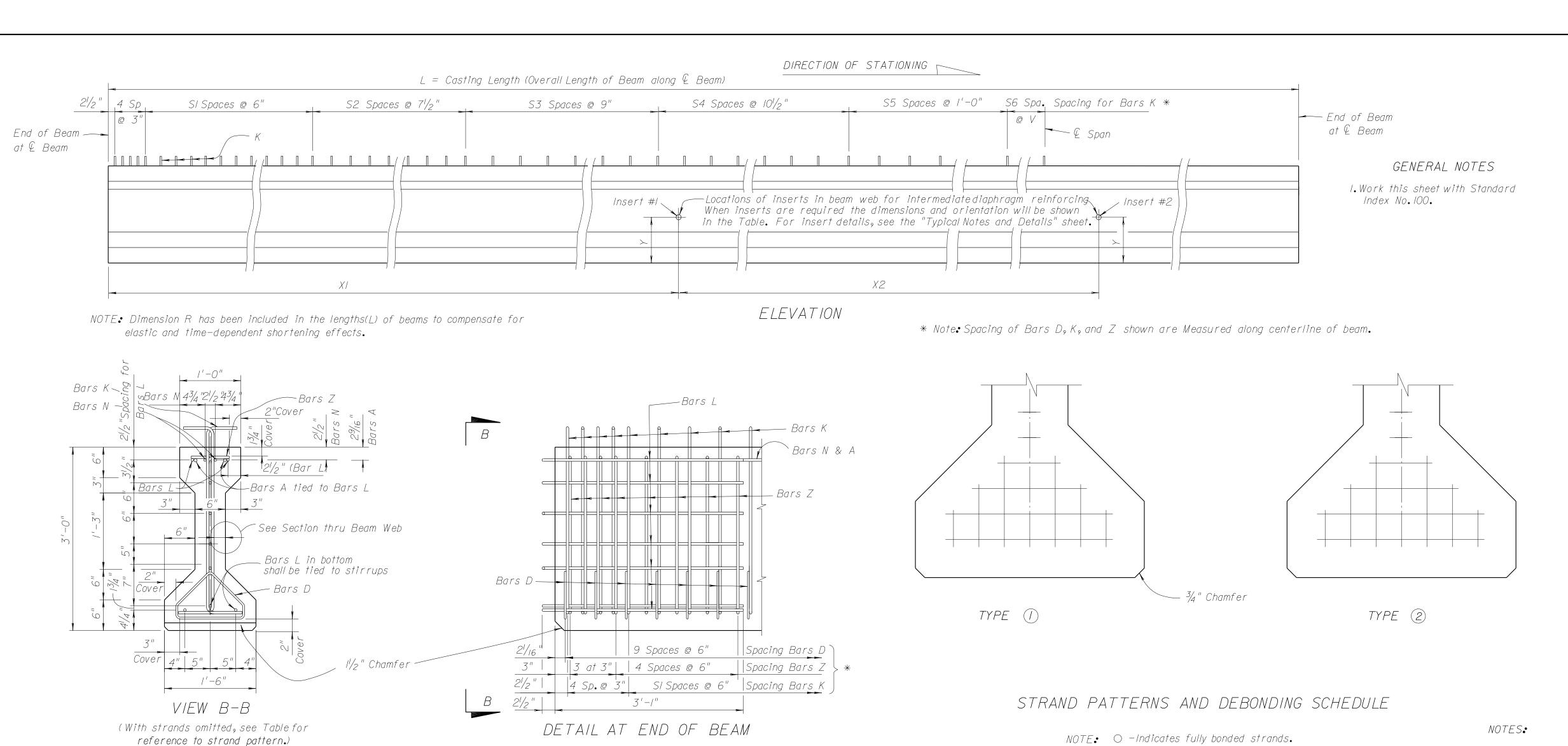


	TABLE OF BEAM VARIABLES														REINFORCING STEEL		
BEAM ID.	CLASS REL. (f'ci)	OPERTIES ENGTHS 28-DAY (f'c.	STND PTRN TYPE	PLAN VIEW CASE	END ELEV COND.	BRG. PLATE CASE	END OF BEAM AND BEARING DIMENSIONS ANGLE Ø DIM P DIM J DIM K	BEAM DIMEN	SIONS R DIM V	NUMBER O. FOR STIRR SI S2 S3	F SF UP E S4	PACES BARS S5	DIAPHRAGM INSERT LOC K DIM XI DIM X2 DIM Y	NS/FS (8) #1 #2	TYPE A OF(2) REINF. LENGTH	K N NO. REQ'DLENGTH	

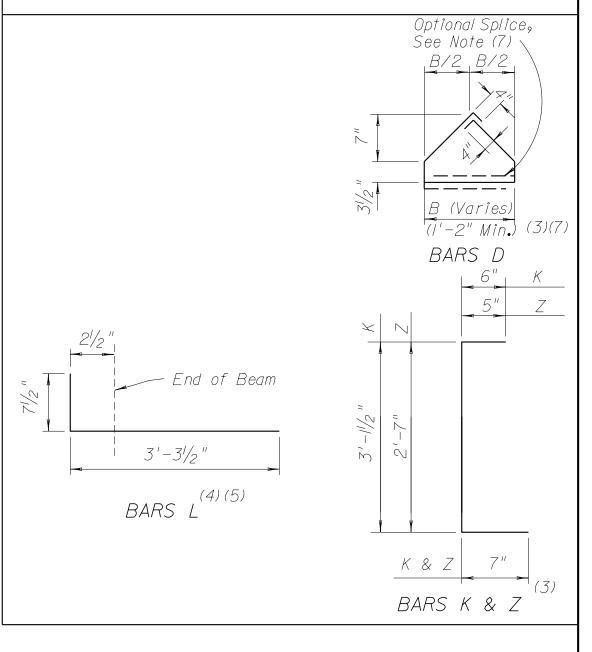
NOTE. Stirrups shall be placed and tied to the top of the fully bonded

prestressing strands in the bottom row.

NOTE: Place Bars K and Z one (1) each space (alternate).

DATE BY DESCRIPTION DATE BY DESCRIPTION DRAWN BY CHECKED BY CHECKE	DRAWING NO.
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BENDING DIAGRAMS (1)



□ -Indicates referenced pair of strands

measured from the centerline of bearing.

to be debonded the length shown.

(I) All bar dimensions are out-to-out.

(2) Black means standard finish and Epoxy means epoxy coated reinforcing steel. Bars N (strand) do not need to be epoxy coated.

(3) Bars D_9K_9 and Z shall be bent around pins having the following diameters for respective sizes.

Bar Size Pin Diameters #3 #4

(4) Bars L shall be bent prior to the beam leaving the prestressing yard. For treatment of bars L at skewed beam ends, see"Plan Ends of Beams". (5) Caution should be used with Bars L in the ends of exterior beams to assure that the bent portion of the bar is properly oriented so that

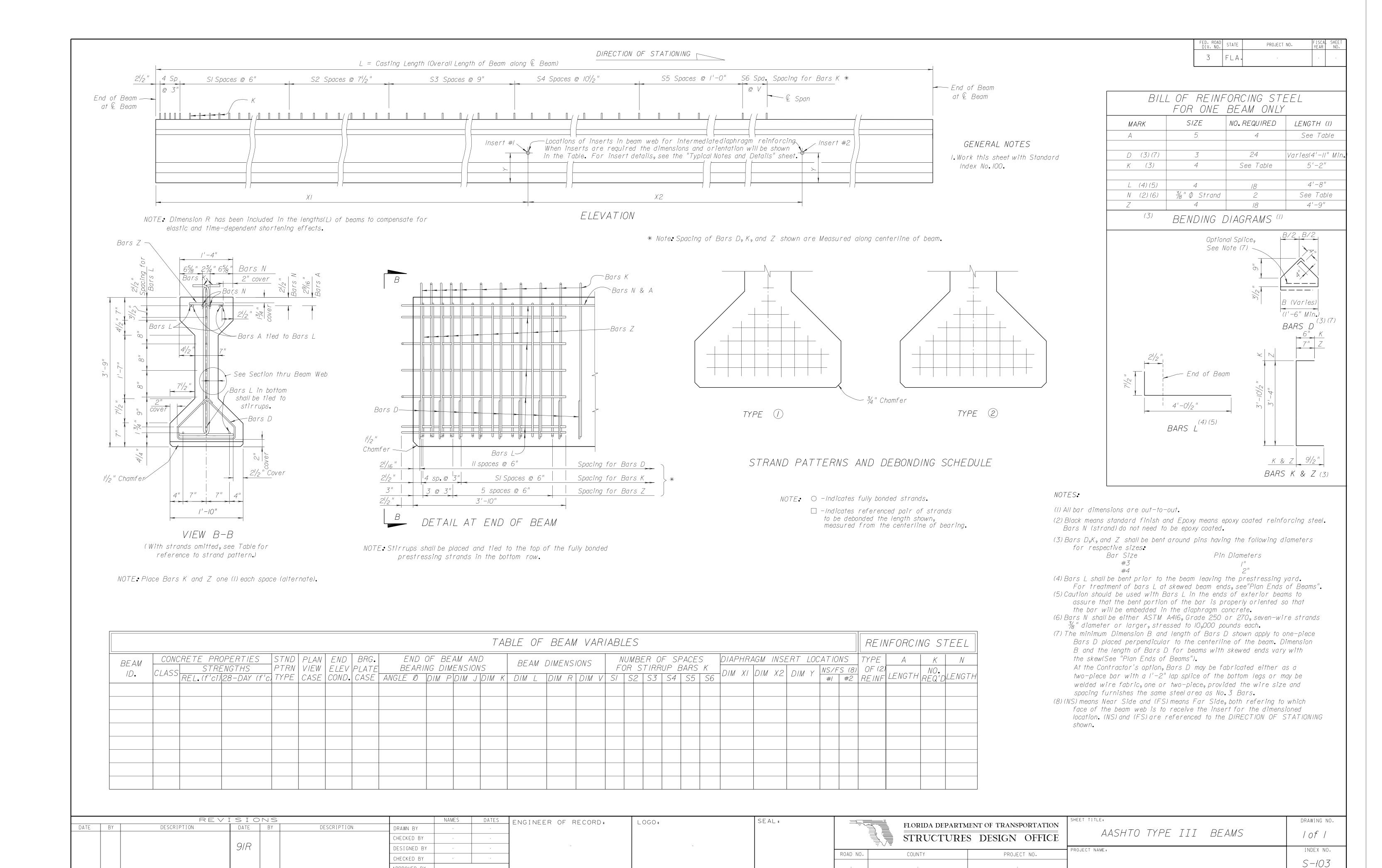
(6) Bars N shall be either ASTM A416, Grade 250 or 270, seven-wire strands $\frac{3}{8}$ " diameter or larger, stressed to 10,000 pounds each.

(7) The minimum Dimension B and length of Bars D shown apply to one-piece Bars D placed perpendicular to the centerline of the beam. Dimension B and the length of Bars D for beams with skewed ends vary with the skew(See "Plan Ends of Beams").

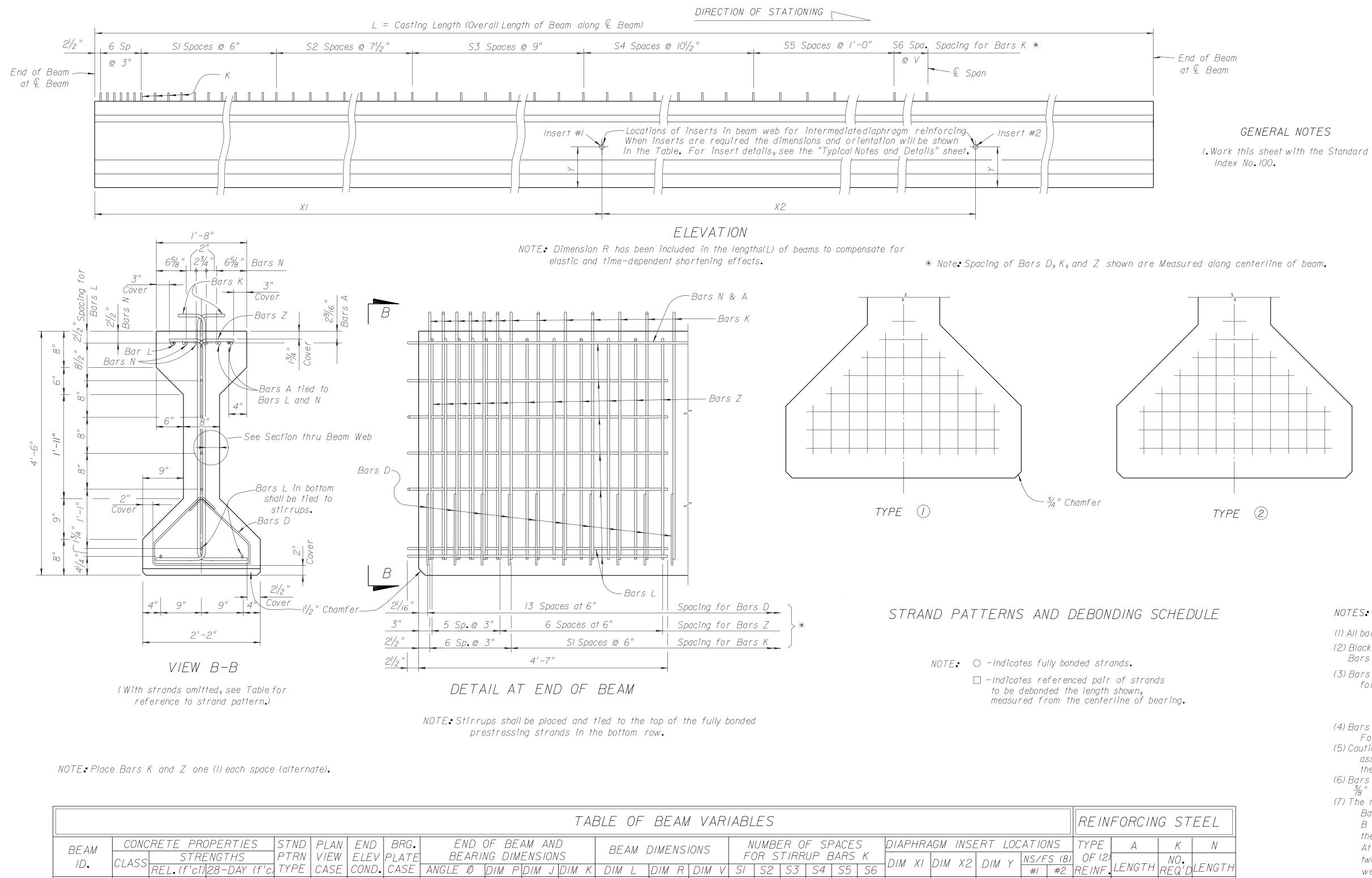
the bar will be embedded in the diaphragm concrete.

At the Contractor's option, Bars D may be fabricated either as a two-piece bar with a I'-2" lap splice of the bottom legs or may be welded wire fabric, one or two-piece, provided the wire size and

spacing furnishes the same steelarea as No.3 Bars. (8)(NS) means Near Side and (FS) means Far Side, both refering to which face of the beam web is to receive the insert for the dimensioned location. (NS) and (FS) are referenced to the DIRECTION OF STATIONING shown.

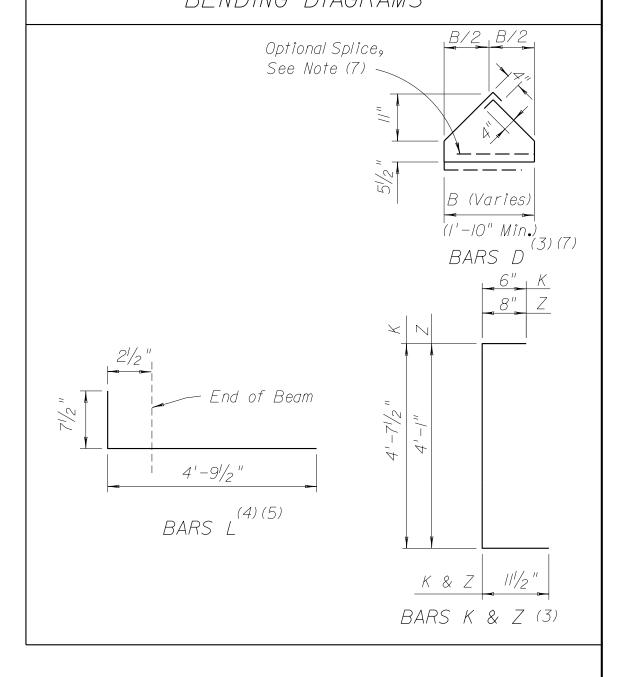


APPROVED BY



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3	FLA.	·	٠	

BILL OF REINFORCING STEEL FOR ONE BEAM ONLY NO. REQUIRED | LENGTH (I) MARKSee Table D (3)(7) 28 Varies(6'-1" Mir K (3) See Table 6'-/" L (4)(5) 5'-5" $\frac{3}{8}$ " ϕ Strand N (2)(6) 4 See Table 24 5'-9" (3) BENDING DIAGRAMS (1)



NOTES.

(I) All bar dimensions are out-to-out.

(2) Black means standard finish and Epoxy means epoxy coated reinforcing steel. Bars N (strand) do not need to be epoxy coated.

(3) Bars D_9K_9 and Z shall be bent around pins having the following diameters for respective sizes.

Bar Size Pin Diameters #3 #4

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(6) Bars N shall be either ASTM A416, Grade 250 or 270, seven-wire strands 3%" diameter or larger, stressed to 10,000 pounds each.

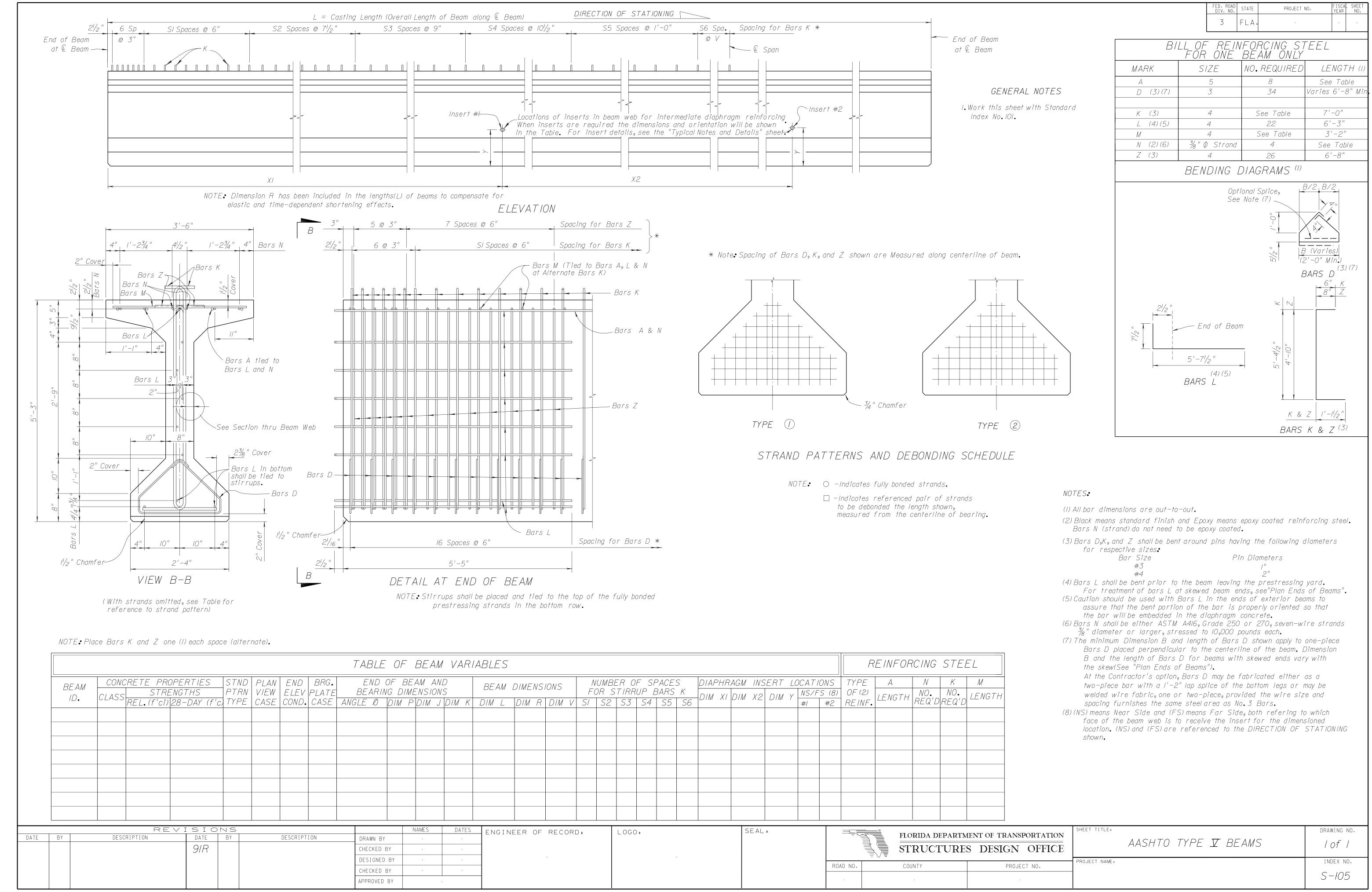
(7) The minimum Dimension B and length of Bars D shown apply to one-piece Bars D placed perpendicular to the centerline of the beam. Dimension B and the length of Bars D for beams with skewed ends vary with the skew(See "Plan Ends of Beams").

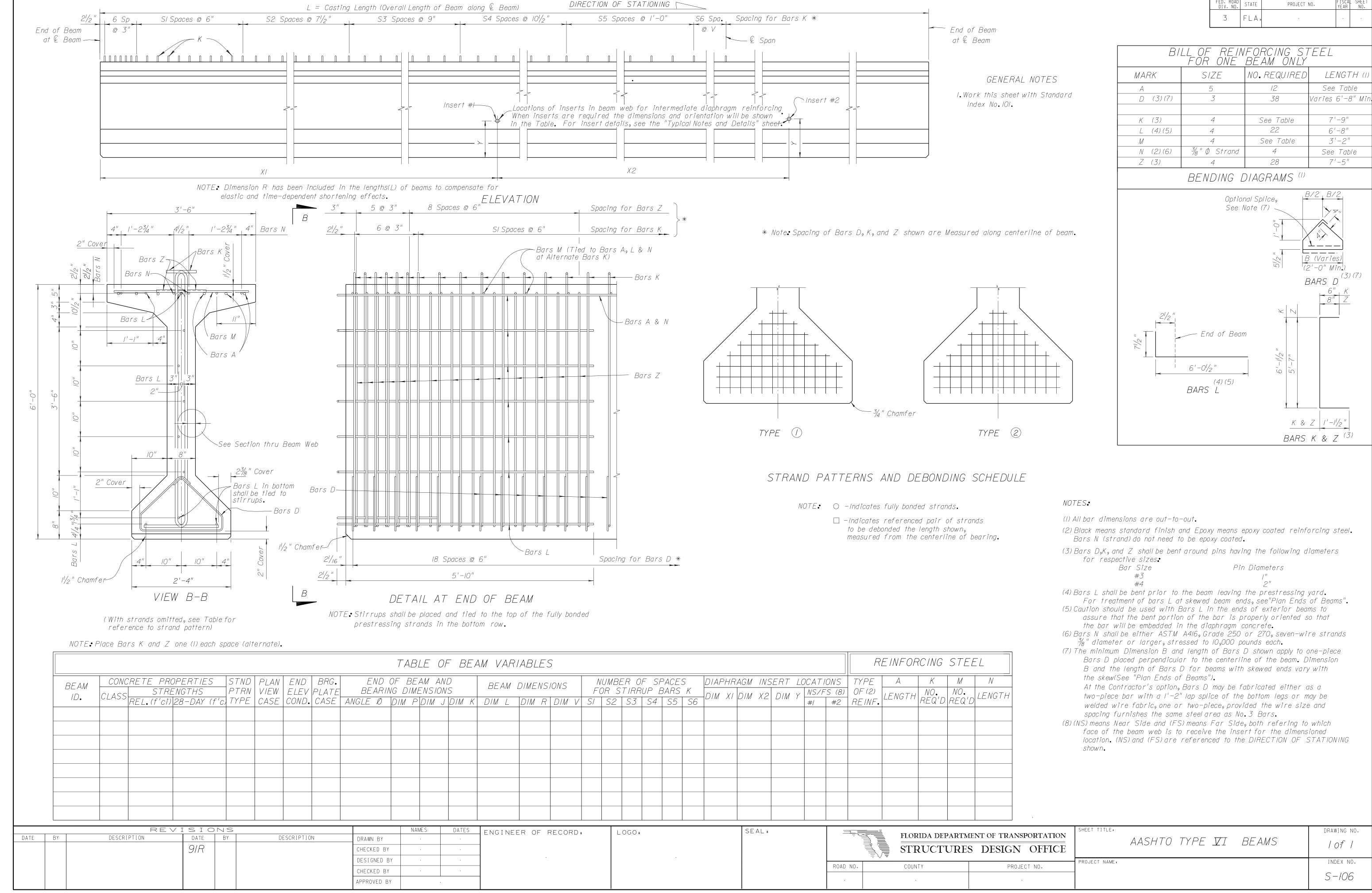
At the Contractor's option, Bars D may be fabricated either as a two-piece bar with a I'-2" lap splice of the bottom legs or may be welded wire fabric, one or two-piece, provided the wire size and spacing furnishes the same steelarea as No.3 Bars.

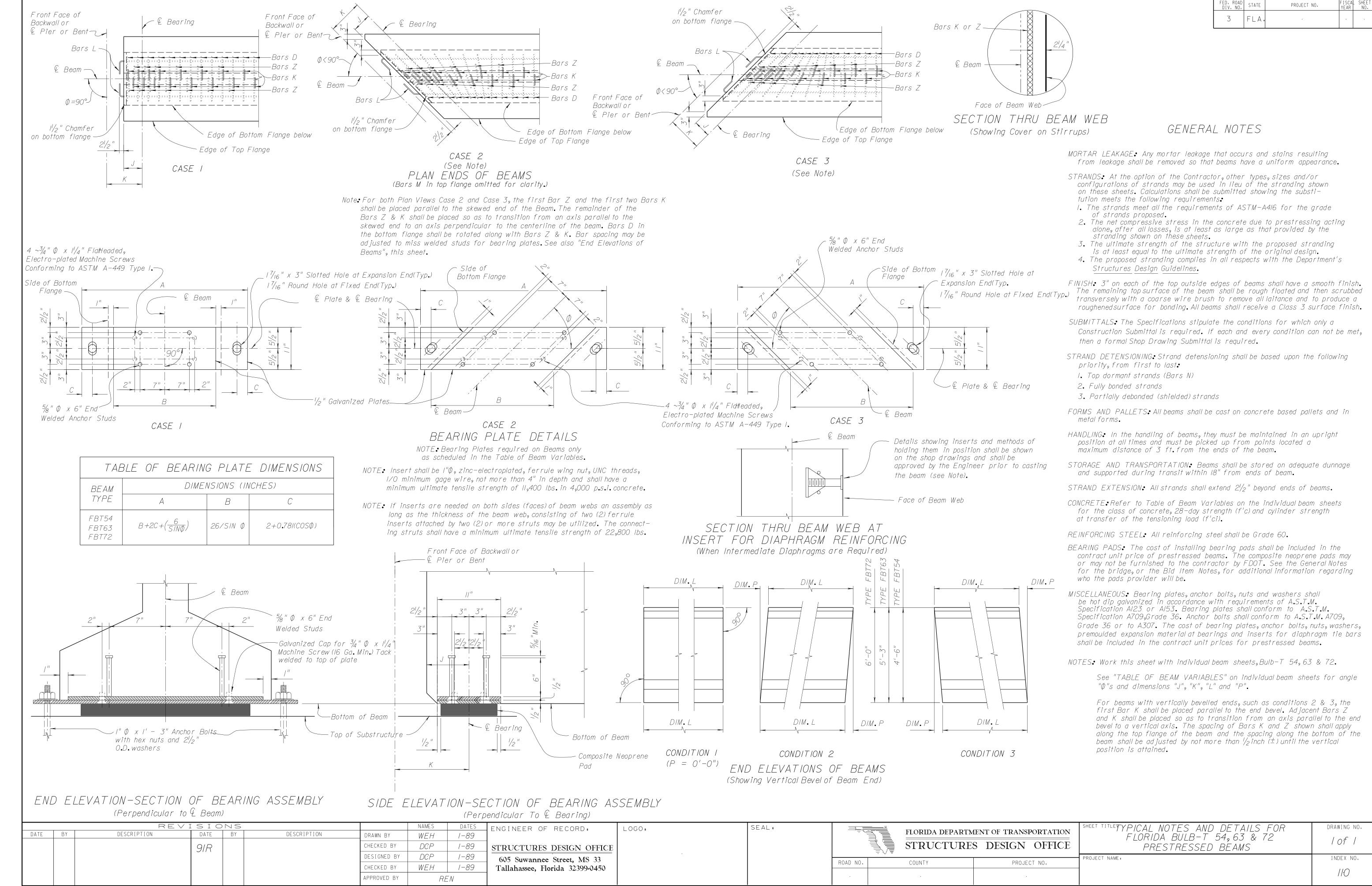
(8)(NS) means Near Side and (FS) means Far Side, both refering to which face of the beam web is to receive the insert for the dimensioned location. (NS) and (FS) are referenced to the DIRECTION OF STATIONING

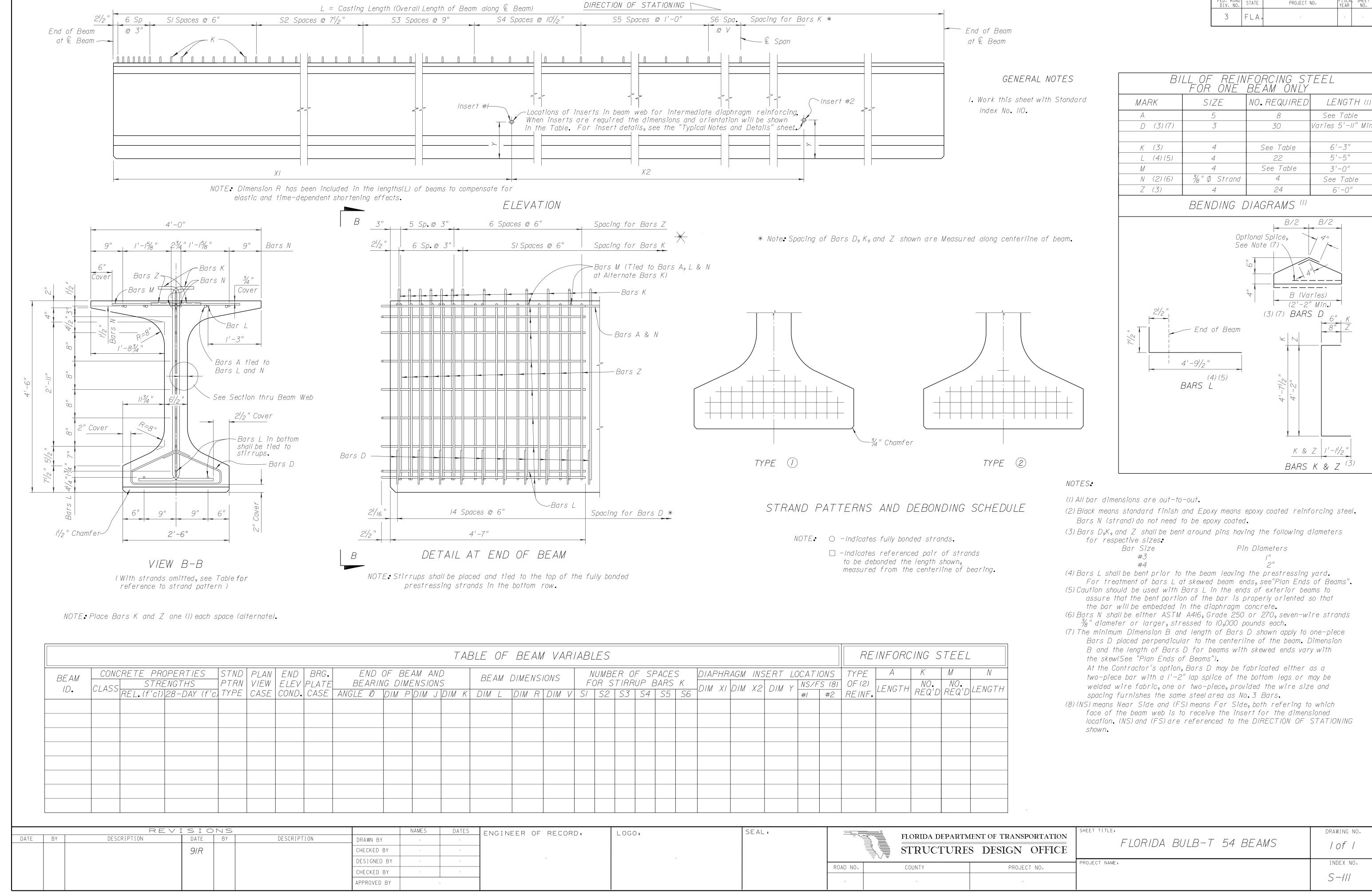
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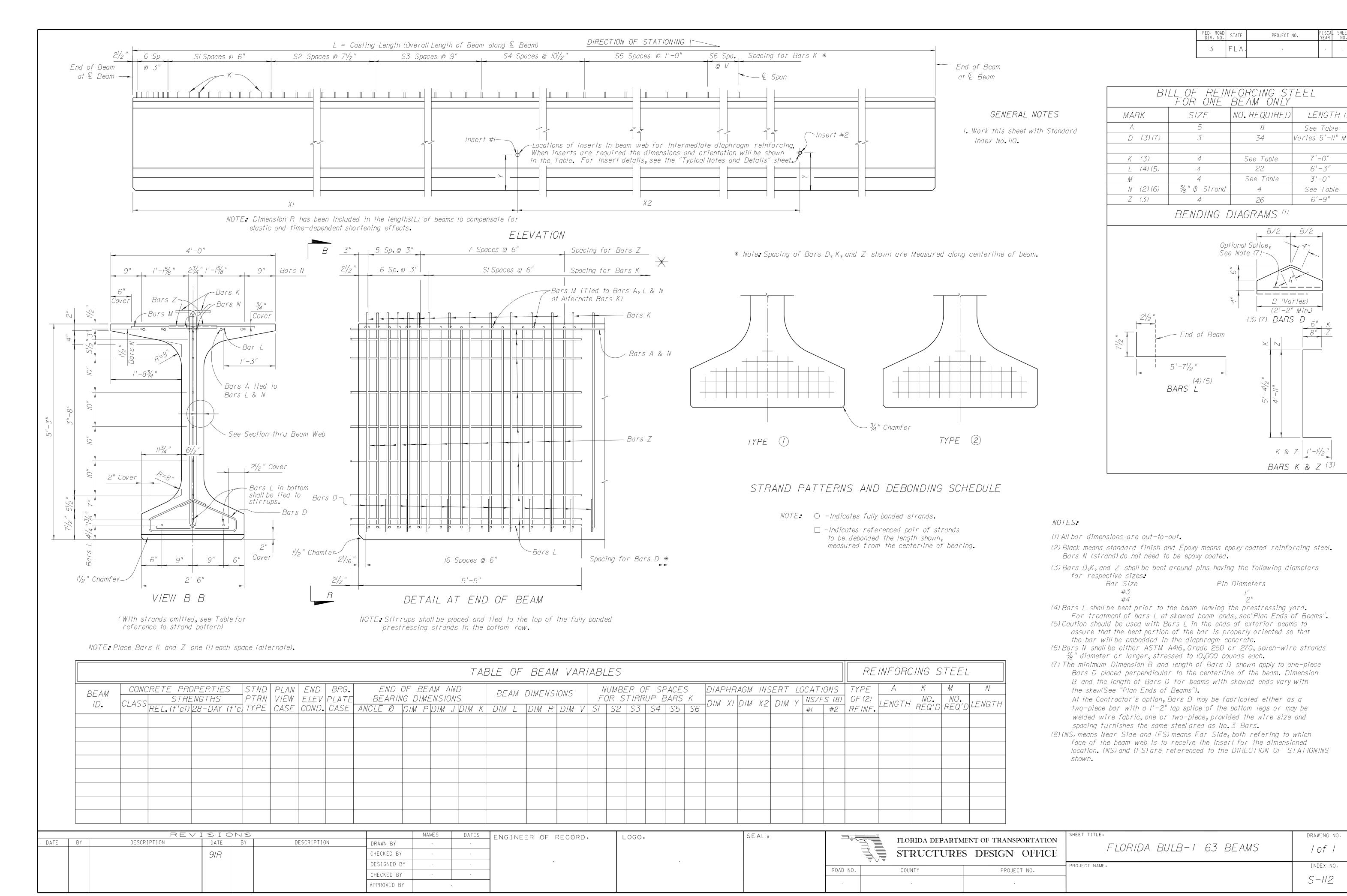
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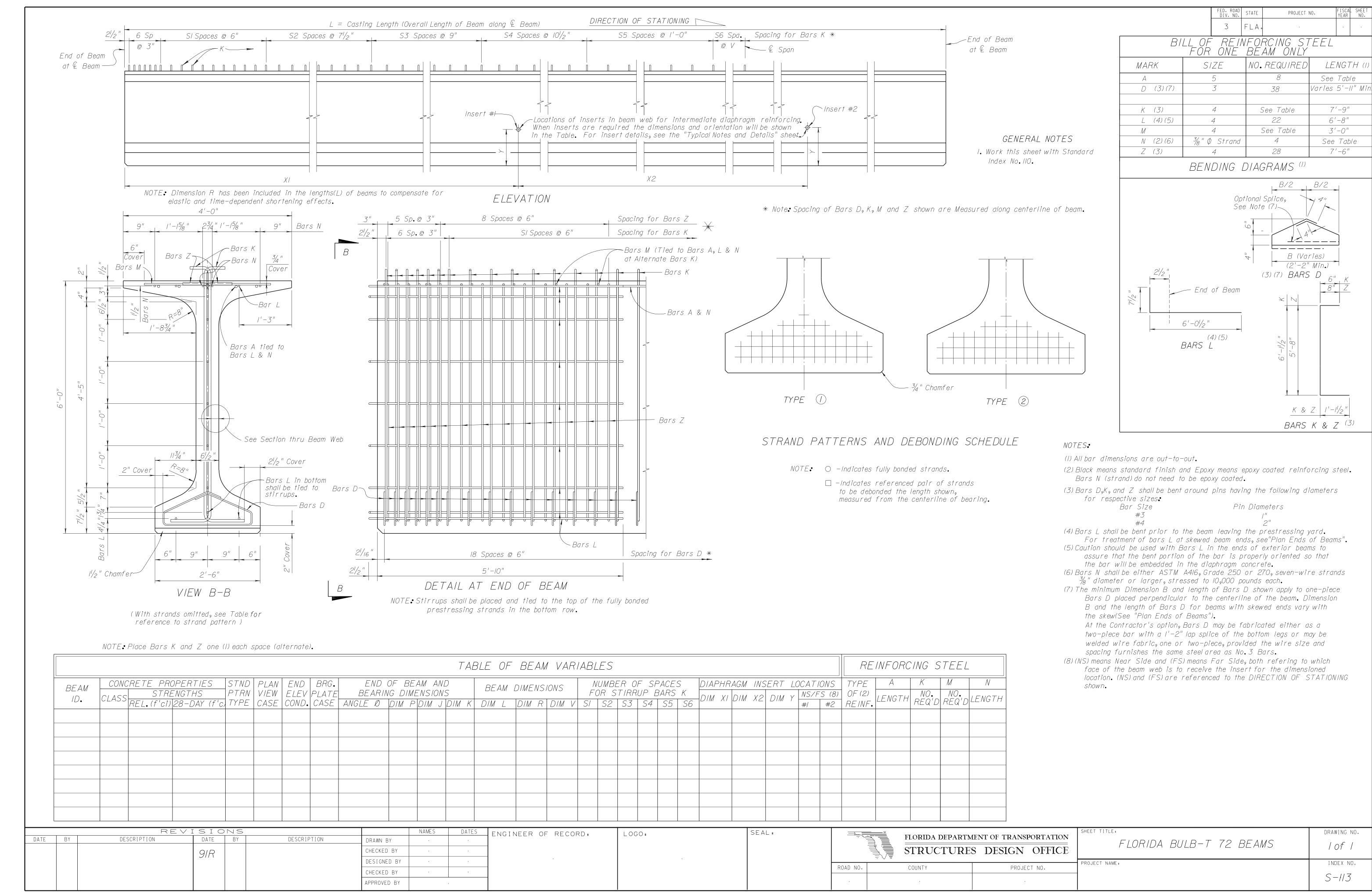




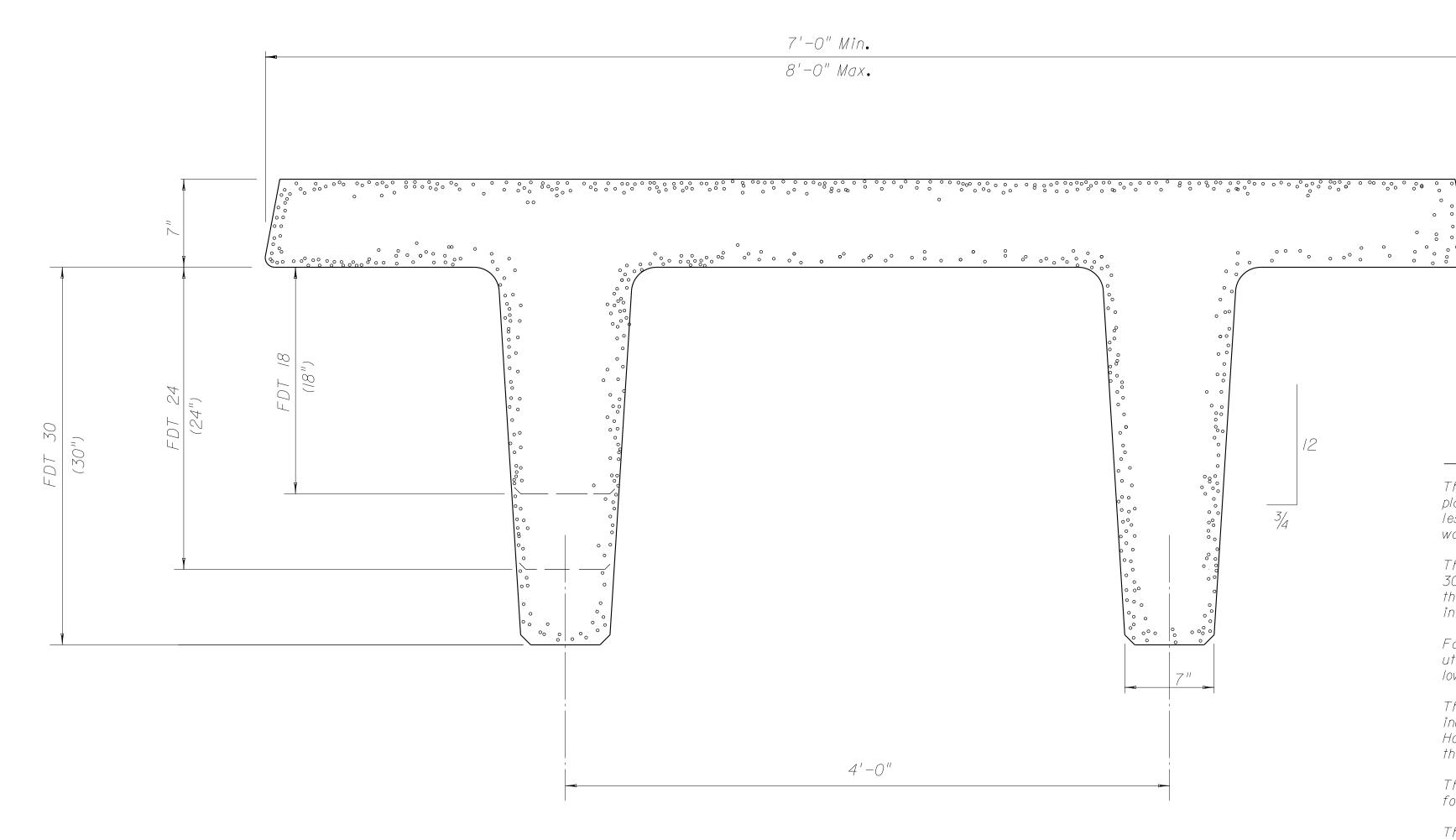








FLORIDA DOUBLE - TEE



LIST OF DRAWINGS

Index No.	
1-120	Florida Double-Tee General Instructions
1-121	Florida Double-Tee Bridge Sections
1-122	Florida Double-Tee Tabulated Strand Patterns
123	Florida Double-Tee Miscellaneous Details and Notes
124	FDT18 Typical Section
125	FDT24 Typical Section
126	FDT30 Typical Section
127	Florida Double-Tee Plan, Joint & Diaphragm
128	Florida Double-Tee Bearings & Construction Notes
S-129	FDT18 Table of Variables & Strand Patterns
S-130	FDT24 Table of Variables & Strand Patterns
S-131	FDT30 Table of Variables & Strand Patterns

DOUBLE TEE GENERAL INSTRUCTIONS

This FDOT Standard is intended for use in preparing construction plans for bridges on straight alignment and skew angles 30° or less. The standard is also limited to simply supported spans, over water or railroad tracks.

Three different cross—sections are provided, the Florida Double Tee 30, (FDT30), the FDT24, and the FDT18. The numerical portion of the alphanumerical designation corresponds to the depth of the stem in inches.

Fabricators may acquire a set of forms for the FDT30 beam, and utilize these to fabricate the other sections by blocking out the lower portion of the stems.

The detailed seven (7) inch slab thickness provides one half (0.5) inch for grinding to improve the riding quality of the bridge. However, the designs are based on a six and one half (6.5) inch thick structural flange.

The designs include an allowance for fifteen (15) pounds per square foot for future surfacing.

The width of the flange may vary between seven (7) and eight (8) feet and the normal seven (7) inch thickness may be increased to accommodate a bridge crown (crowned beam).

Only $\frac{1}{2}$ " \emptyset low-relaxation strands and concrete with a 28-day compressive strength of 5,000 psi are used. Strand Patterns are tabulated for Span lengths (\P to \P bearing) ranging between thirty (30) and sixty-one (61) feet.

The Designs provided are applicable for all Environmental Classifications. Some Details, such as Concrete Class, Protective Treatment of Strands at the end of the Stem, and the requirement of Epoxy Coated Reinforcement depend on the Environment. Therefore, the Designer shall include in the General Notes for the Bridge the Environmental Classification and call for all applicable dependent requirements.

Three types of drawings are included. Instructional Drawings, Semistandard Drawings, and the Standard Drawings. The Instructional Drawings are provided to assist designers in preparing the contract drawings. These drawings help explain how the Semi-standard Drawings should be completed, provide required design information, and list the Standard Drawings that should be included in the contract set.

In most applications, the drawings provided in this standard (and other standards) when supplemented by a Plan view of the superstructure and a typical section thru the bridge should suffice in defining the bridge superstructure. In all cases, however, the designer is responsible for providing additional drawings necessary to complete the superstructure drawings, and for designing and detailing substructure units and other bridge components.

INSTRUCTIONAL DRAWINGS.

The Instructional Drawings show the three (3) double tee cross-sections, typical bridge sections, strand pattern designs, and provide general instructions.

STANDARD DRAWINGS.

The Standard Drawings are complete except for the title blocks. Only the applicable FDT standard drawings shall be included in the contract drawings. The Standard Drawings provide General Notes, Construction Notes, Neoprene Pad details and general standard details for the beams.

SEMI-STANDARD DRAWINGS.

The Semi-standard Drawings are incomplete drawings.
These drawings must be completed by the designer to suit the particular design. A Table of Beam Variables is provided in the Semi-standard Drawings. The designer shall complete the Table by providing all applicable information. The designer shall obtain strand patterns from the Instructional Drawings and show the patterns in the strand pattern grids provided.

DOUBLE TEE DESIGN EXAMPLE.

As a design example a single span bridge is designed using the instructional drawings, standard drawings and semi-standard drawings. The following information is provided for the bridge.

Begin Bridge Sta.00+00.00

End Bridge Sta.00+60.00

Cross Slope = 0.02

Skew Angle = 0 degrees (\$\phi\$ = 90°)

Bridge Width = 40'-0" clear roadway

Sidewalks = none

From this information, the design span length is \cdot (60'-2(6.5+1.5)/12) = 58.67 ft (\cdot - \cdot bearings). Instructional Drawing 1-122 shows that a FDT30 with twenty-eight (28) strands is required. The strand patterns need to be drawn on Semi-standard Drawing S-131. The strand pattern Case 2 applies. The strand patterns Types I and 2 also apply. The strand pattern at the end should be drawn in the section, for Type I, and the pattern between holds downs (center) should be drawn in the section of the stem for Type 2. The total number of strands required, in this case 28, should be written within the circles.

The Bridge Plans shall include the following drawings: Index No. 123, 126, 127, 128 & S-131

The Table of Variables should be filled as follows:

Since Bridge Width (o-o) = 40 + 2(18.5/12) = 43'-1''The Number of beams required = 43.08/8 = 6, and W = (43.0833/6) = 7.18'

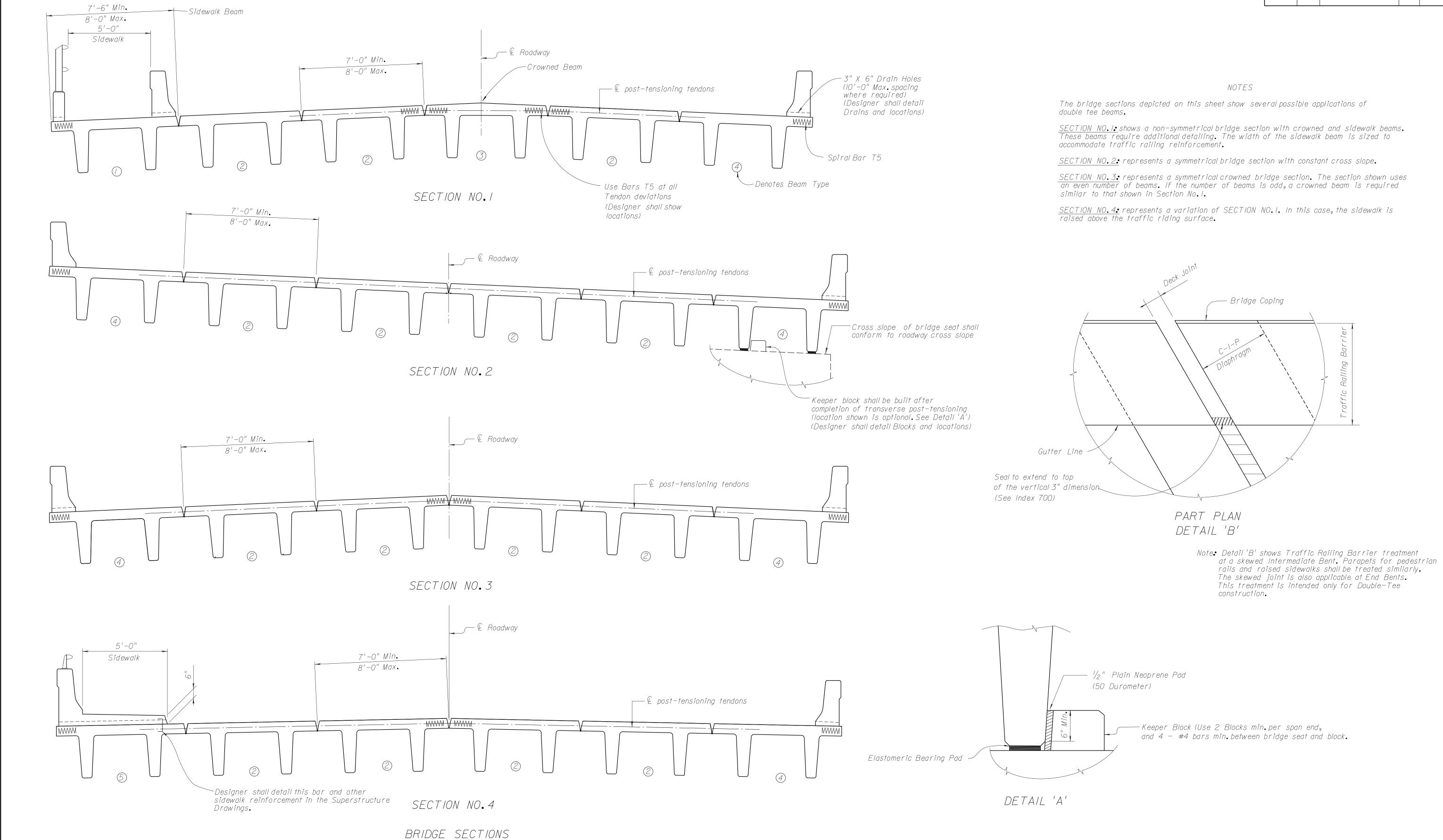
Note: Neglect the $\frac{1}{4}$ inch width at the bottom of longitudinal joints. Clear roadway width and overall superstructure width should be denoted as $40'-0"\pm$ and $43'-1"\pm$, respectively.

A = (7.18 - 4)1/2 = 1.59' L = (60'-0") - 3" = 59'-9" $[L - 2(1.75)] \div 4.5 = 13; NI = 14$ $SI = [L - 2(1.75)] - \cdot 13 = 4.3269'$ $(L - 28") \cdot 8 = 87; N2 = 88$ $S2 = (L - 28") \cdot 87 = 7.92"$

	TABLE OF VARIABLES																					
SPAN	BEAM NO. O		DE AM M	REAM	NO 05	NO OF			Ω	IMENSIC) N C			POST -TE	NSIONING	CONC	RETE	k 6	k	STRA	ND PAT	TERN
NO.	TYPE	BEAMS	Φ			TWENSTO				DUCT	DATA	DATA	(PSI)	REINF. S	TEEL DATA	CASE	TY	PE * *				
				Α	DΙ	L	W	Χ	Υ	N /	SI	f 'c	f'ci	N2	<i>S2</i>	CASE	END	CENTER				
/	2	4	90°	1'-71/16"	/'-O"	59'-9"	7'-21/8"			14	4'-4"	5000	4100			2	1	2				
/	4	2	90°	1'-71/16"	/'-0"	59'-9"	7'-21/8"			14	4'-4"	5000	4100	88	8"±	2	1	2				

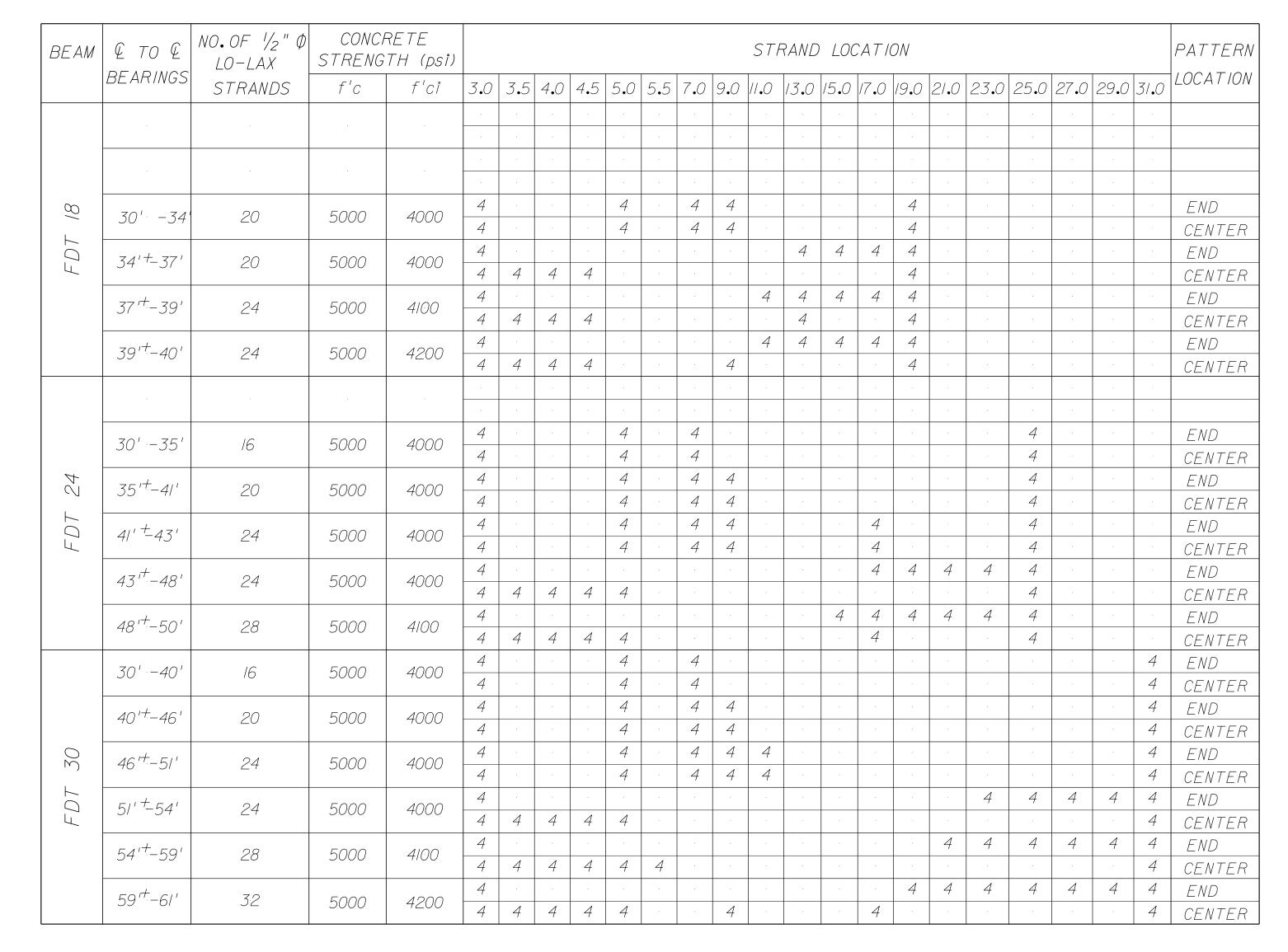
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	DESIGNED BY $AJG = 6-90$ CHECKED BY $TJB = 6-90$ APPROVED BY AJG	605 Suwannee Street, MS 33	·	ROAD NO.	COUNTY PROJECT NO.	PROJECT NAME:	INDEX NO. 1-120

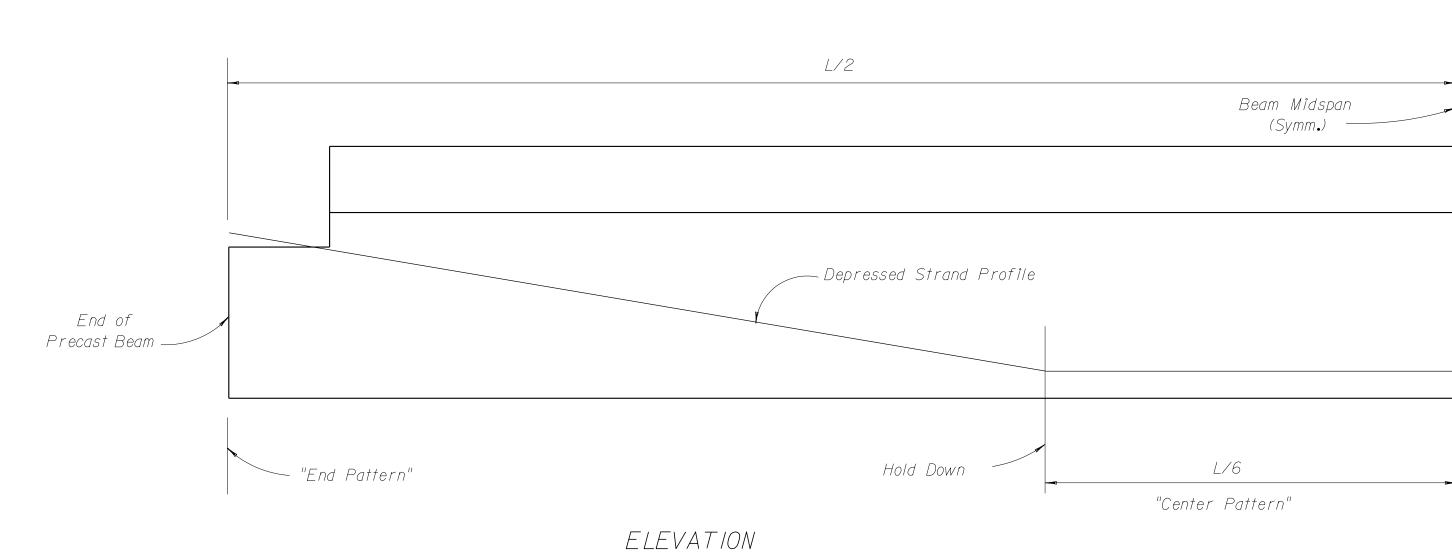
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	CHECKED BY AJG CHECKED BY AJG CENTRAL OFFICE 605 Suwannee Street, MS 33 Tallahassee, Florida 32399-0450	-	ROAD NO. COUNTY PROJECT NO.	PROJECT NAME.	INDEX NO. 1-1:21

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PATTERN LOCATION

	<u> </u>	/" /"	
	FDT 30		
PERMITTED	STRAND	LOCATIONS	

£ Stem

— Indicates possible strand locations

5.0 3.0 - 4.0 - 3.5

FDT 18

FDT 24

Indicates distance in

inches from bottom of stem to & strand

29.0

27.0

25.0

//•0

DATE BY DESCRIPTION DATE BY DESCRIPTION 90	DRAWN BY CHECKED BY AJG 6-90 STRUCTURES DESIGN OFFICE CENTER A LOSEFICE	LOGO:	FLORIDA DEPARTMENT OF TRANSPORTATION STRUCTURES DESIGN OFFICE	FLORIDA DOUBLE-TEE TABULATED STRAND PATTERNS	DRAWING NO.
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DOUBLE-TEE NOTES

General Specifications. Florida Department of Transportation Standard Specifications for Road and Bridge Construction current edition with approved Supplements thereto.

Design Specifications. American Association of State Highway and Transportation Officials (AASHTO) Standard Specifications for Highway Bridges, 1989, FDOT Structures Design Guidelines.

Design Loads**.**•

Live Load. HS20-44 Modified for Military loading as required. Self weight. Based on 150 pcf

Superimposed Dead Load: 140 lbs/L.F. Future wearing surface: 120 lbs/L.F.

Live Load Distribution of Axle Loads. Factor Span 30' - 41'

0.70 41'(+) - 51' 0.69 51'(+) - 61' 0.68

Concrete Class. See General Notes Epoxy Coated Reinforcement. See General Notes Environment. See General Notes

Material Properties•

Concrete Strength. Precast Double Tees f'c = 5000 ps.i Cast-in-place Diaphragm f'c = 3400 psi.Reinforcing Steel ASTM A-615, Grade 60. Welded Wire Fabric. ASTM A-185 and ASTM A-497.

Prestressing Strands: $\frac{1}{2}$ " ϕ ASTM A-416, Grade 270, Low Relax. Strand Detensioning. Detensioning shall be performed after the concrete has reached the required release strength f'ci(See Table of Variables.). The strands shall be detensioned in a sequence

number of strands between stems to a maximum of two (2). The transfer of stresses shall be done in accordance with the specifications. Strand Cutting. If the Environment of the Superstructure is classified as Sightly Aggressive Environment, the strands below Diapragm Blockout shall be cut flush with the Concrete Surface of the Stem; and the

that keeps the maximum eccentricity about the vertical axis of

the stem to one (1) strand, and the difference between the

 $\frac{1}{8}$ inch thick to prevent Strand corrosion. If the Environment is classified as Moderately Aggressive Environment or Extremely Aggressive Environment, use a Linch deep recess around Strand or Strand group. The Strands shall be cut flush with the bottom of the formed recess and immediately after cutting Strands, the recess shall be filled with an approved Mortar under pressure. After the

Mortar has cured, the exposed Stem surface shall be coated with an

exposed Stem surface shall be coated with an approved Epoxy Mortar

Bars for Barrier or Railing . The spacing of the bars may be adjusted to clear the post-tensioning blockouts. However, the number of bars shall not be reduced. The Contractor shall show the proposed spacing for the bars on the shop drawings. Bars 5P (in the barrier) shall be tied to Bars 5V.

approved Epoxy Mortar $\frac{1}{8}$ inch thick.

Camber. Camber is the amount of rise that occurs at midspan of the beam due to the prestressing force. The camber will increase due to creep during storage unless precautions are taken. Therefore, the contractor shall avoid the development of additional differential camber between beams, for any span, during storage by loading or other approved methods.

Surface Finish. The tops of all precast units shall be finished smooth by floating and brooming. All other surfaces of the beam shall receive a Class 3 Surface Finish. The edges of the top surface of the units shall be finished by use of a small radius tool.

Mortar Leakage. Any mortar leakage that occurs and stains resulting from leakage shall be removed so that all beams have a uniform appearance.

Forms and Pallets. All beams shall be cast on concrete based pallets and in metal forms.

Handling: Prestressed beams must be maintained in an upright position. They must be picked up from points located between two (2) and three (3) feet from the ends.

Storage and Transportation: All beams must be stored on adequate dunnage. The beams must be supported no closer than 6 inches to the end nor further than 18 inches from the end.

Marking. Each beam shall be marked showing bridge number, casting date, and identification letters and numbers. Markings shall be made on the face of the stem near the end, so located that the marking will be exposed after the end diaphragms have been cast. Outside beams shall be marked on an inside face of the stem. All markings shall be stencilled and clearly legible.

Shim Plates. Shim plates for bearings shall be hot dip galvanized in accordance with requirements of A.S.T.M. A-123. The contractor shall have an adequate number of shim plates available at the job site for use if required.

Diaphragm: The diaphragms shall be cast-in-place after the transverse post-tensioning has been completed. The cost of materials and labor required for the construction of diaphragms shall be included in the cost of concrete and reinforcing steel for the superstructure.

Neoprene Bearing Pad: Composite Neoprene Bearing Pads shall be provided in accordance with details in this standard and the Department's specifications. The pads are considered to be incidental to the cost of the precast double tee beams. therefore, no separate payment will be made.

Post-Tensioning. The work and materials required for posttensioning shall conform to the special provisions. This work is considered to be incidental to the cost of the precast double tee beams; therefore, no separate payment will be made_ullet

> Each tendon shall consist of three (3), $\frac{1}{2}$ inch diameter Low Relaxation Strands conforming to ASTM A-416, Grade 270.

The post-tensioning design assumptions are as follows. anchor set = 0.375 in. friction coefficient = 0.0 k/ft wobble coefficient = 0.0002 k/ft.

The jacking force required before anchor set is 30.99 kips for each strand.

Ducts, couples, transitions (trumpets) shall be fabricated from virgin high density polyethylene. The ducts shall be flat corrugated ducts in accordance with the plans. During casting of the beams, the ducts shall be held in proper alignment by a rigid mandrel sufficient to prevent displacement. Ducts shall have a grouting vent at each anchorage. Duct splices shall be watertight.

Exterior blockouts shall be filled with an approved nonshrink, non-metallic grout after completion of the posttensioning operation. Prior to grouting blockouts, all concrete surfaces in contact with the grout shall be roughened, and the metallic anchorage devices and strands shall be cleaned to the satisfaction of the engineer; and immediately before grouting, the blockout concrete surfaces and anchorage devices shall be coated with an approved bonding compound.

Shop Drawings: Shop drawings for double tee beams shall show a complete detensioning schedule so as to minimize tension in the concrete during release of the strands. Detailed concrete stresses during each stressing operation of detensioning shall be submitted with the Shop Drawings. Shop Drawings shall show complete details of the beams including reinforcing steel. The contractor shall also include in the shop drawings the post-tensioning information required by the special provisions.

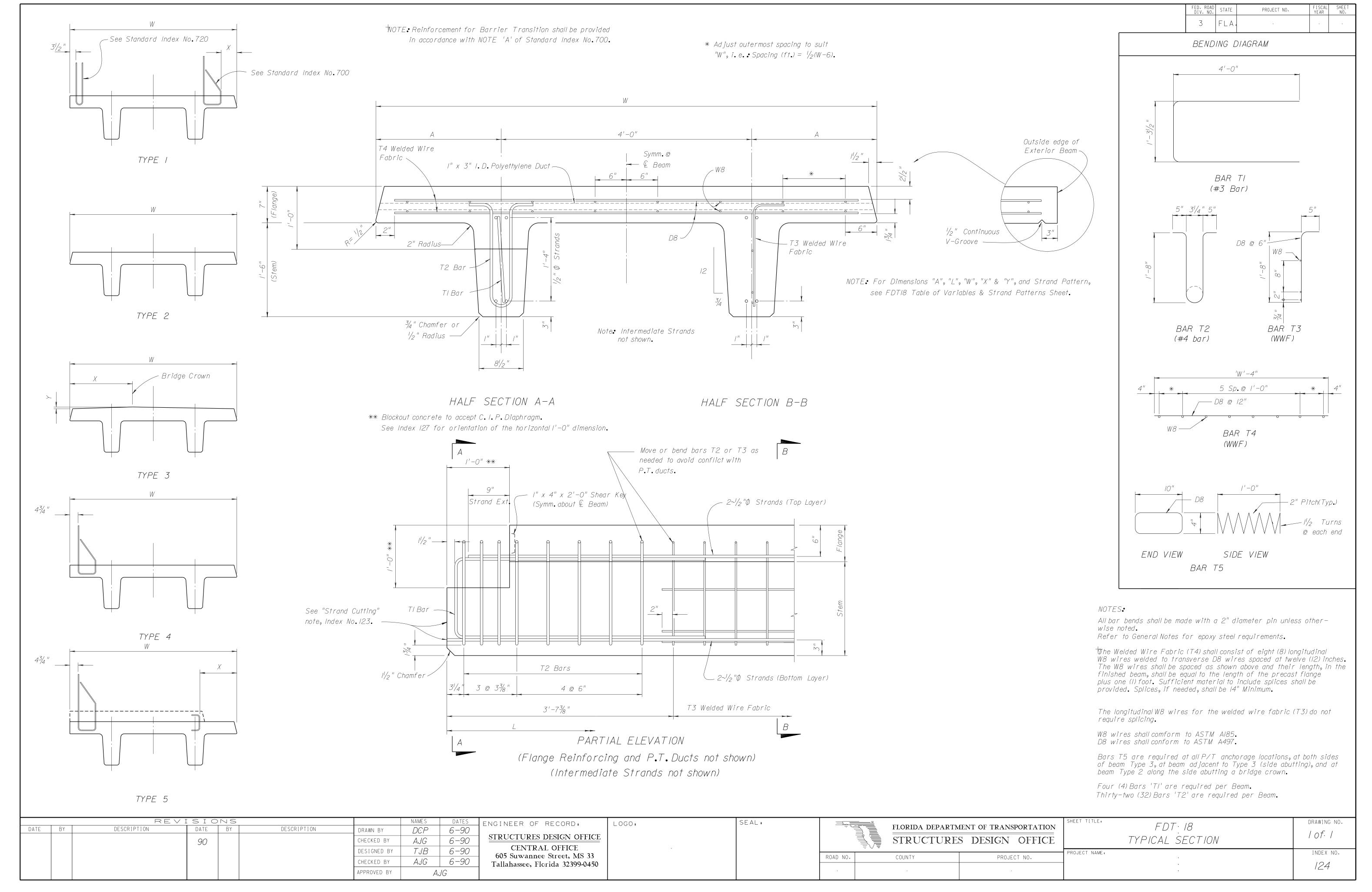
Payment: The cost of Double Tee Beams shall be paid for at the unit price per linear foot. Such a cost shall include all materials required for the fabrication of the precast beams as well as erection of the beams. This unit price also includes the cost of incidental materials and work such as: neoprene bearing pads, shim plates, transverse post—tensioning (including hardware), and grouting. Payment shall be made on the quantity complete in place and accepted. Grinding of the top surface, if needed, to provide a smooth riding surface is also considered to be incidental work. Final pay lengths shall be the plan quantity which is based on the casting lengths (Ls) of the beams.

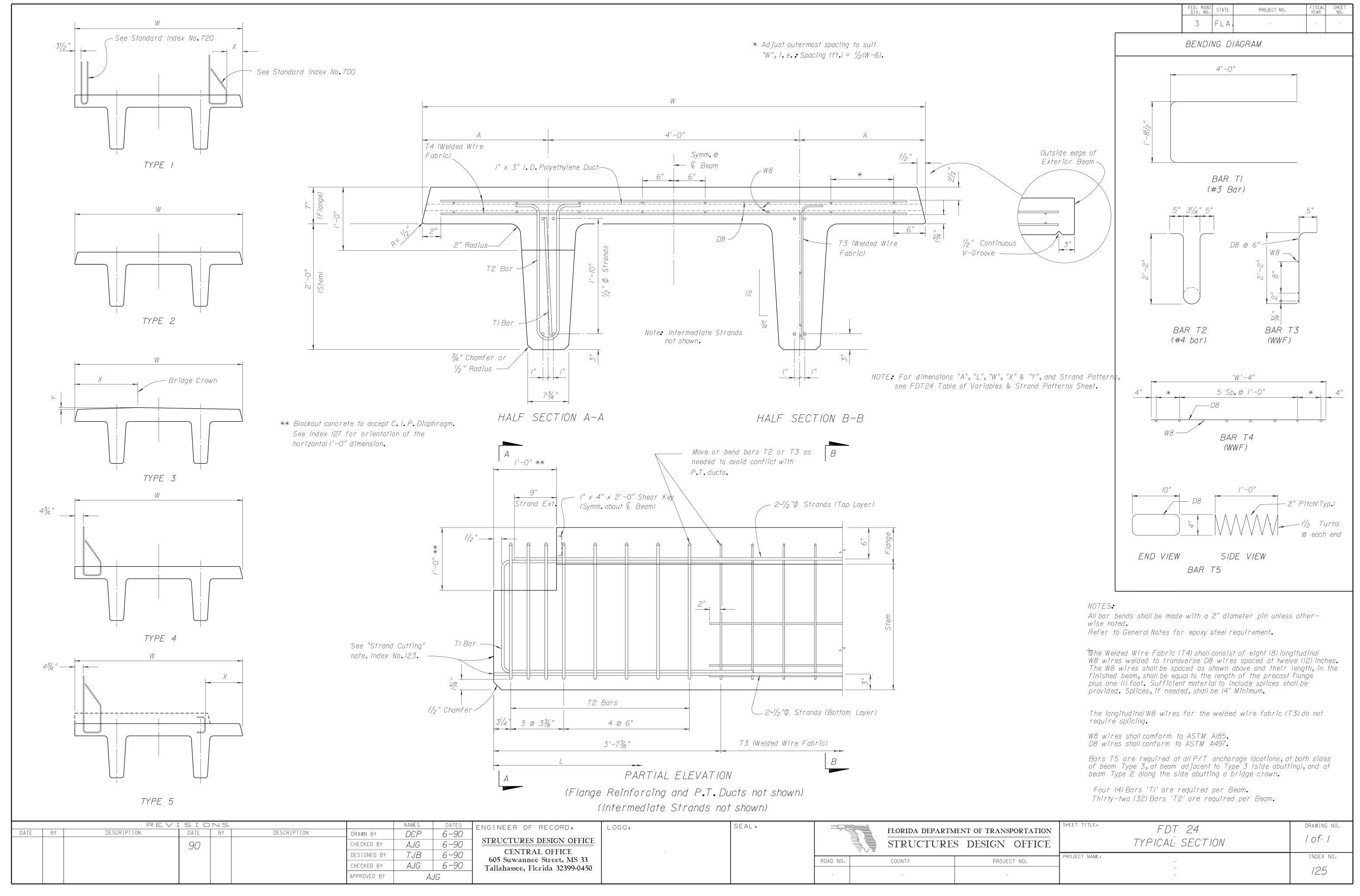
Pay Item numbers are as follows. 450-1-118 Prestressed beam (Florida Double-Tee Beam)(FDT18) 450-1-124 Prestressed beam (Florida Double-Tee Beam)(FDT24) 450-1-130 Prestressed beam (Florida Double-Tee Beam)(FDT18)

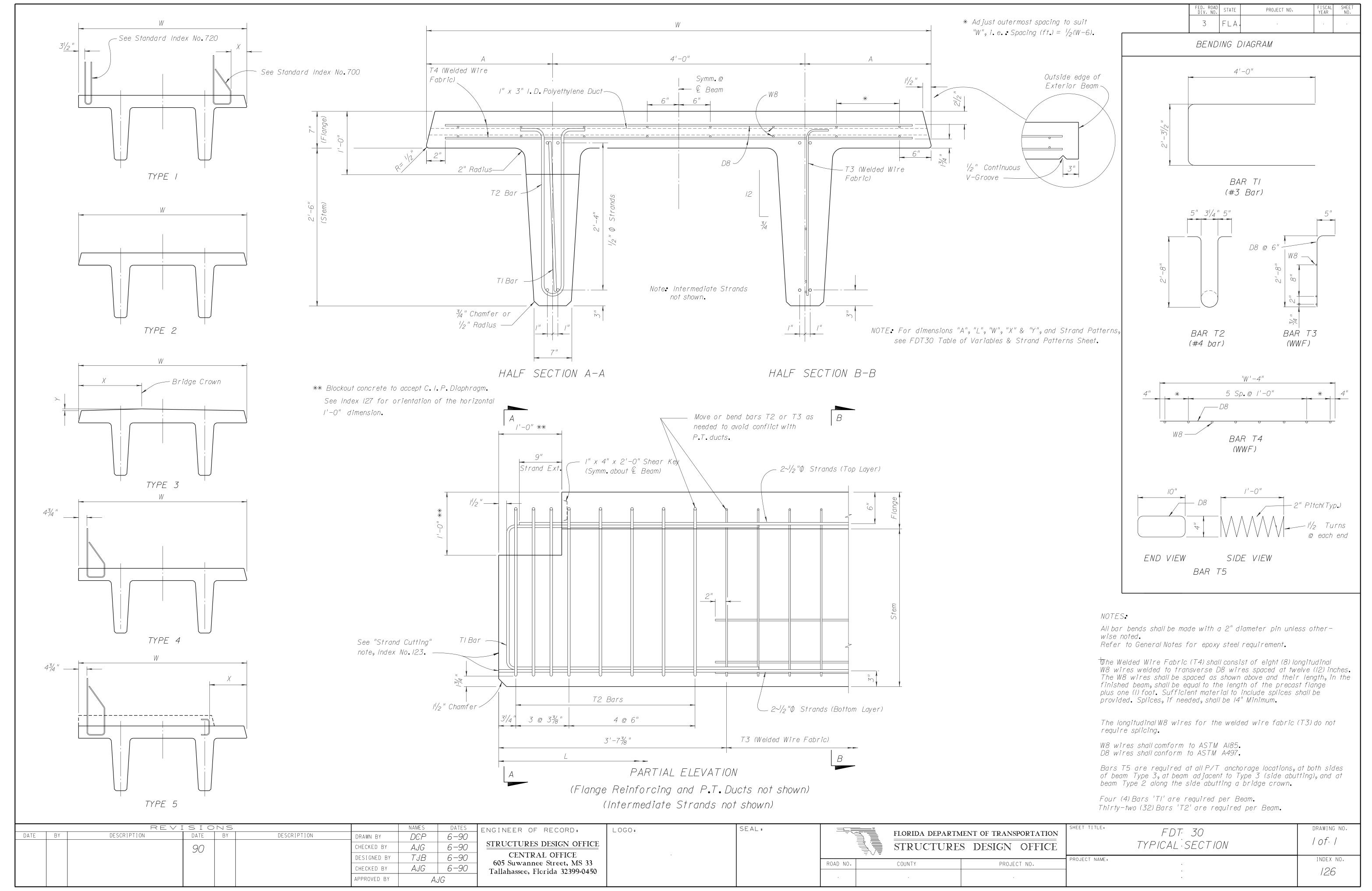
€ 1/4" Joint between beams— Polyethylene Duct — /" x 3" /•D• Polyethylene Duct -- /" x 3" /•D• -emale Coupler — Polyethylene Duct Female Coupler with Duct Tape Bar T5, where required adjacent to tendon Top Edge (Flange deviation. of Beam) — DETAIL D (Non-Skewed) (Skewed) INTERIOR BLOCKOUTS £ Duct /" x 3" /•D• /" x 3" /•D• Polyethylene Duct > Polyethylene Duct — Transition -£ Duct (Flat Anchorage) SECTION E-E Outside Edge (Flange *** of Exterior Beam) — (Non-Skewed) (Skewed) EXTERIOR BLOCKOUTS PARTIAL PLAN SHOWING BLOCKOUT DETAILS FOR POST-TENSIONING Ø Strands Anchorage Plate -VIEW F-F 55/8" 55/8" * ✓ Grout Vent (Typ.) .15/8" ** - 1" x 3" 1.D. — Female Coupler -Non-Shrink, Non-Metallic —Bar T5 51/2" * Polyethylene Duct with Duct Tape Grout /" x 3" /•D• —Backer Rod -Backer Rod Polyethylene Duct — SECTION C-C SECTION A-A SECTION B-B (See also Detail D) * Along & Duct at skewed blockouts. ** Perpendicular to Flange. *** Dimensions to suit Anchorage device.

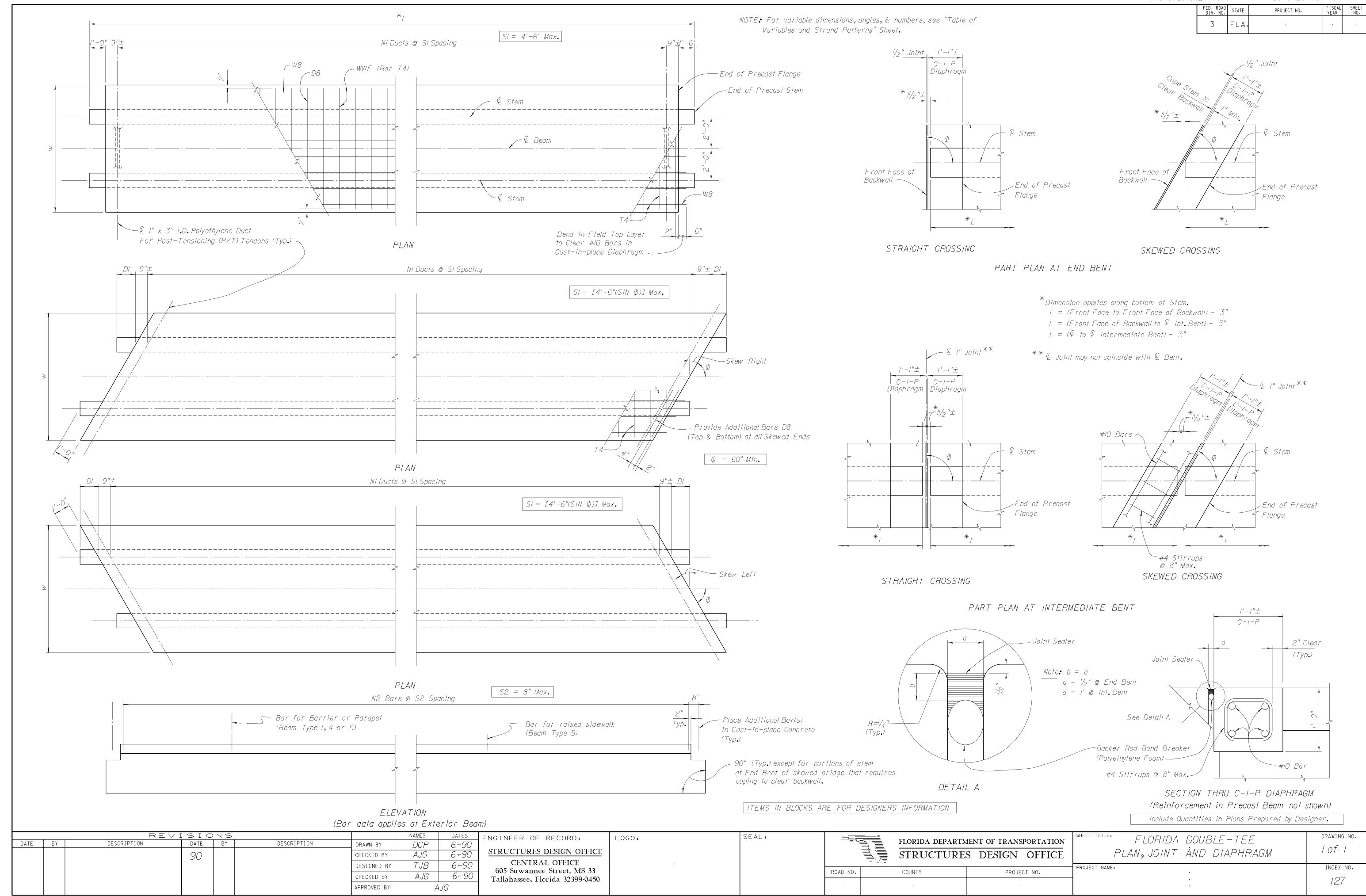
1" x 3" 1.D.

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Construction Notes

Each double tee beam is designed to bear equally on four bearing pads. Shimming and/or grinding under one or more pads may be necessary to obtain proper bearing. The contractor shall adhere to the following installation sequence during erection of the beams:

I. Mark theoretical pad locations (outlines) on the bridge seats for the centermost beam. Place pads on the marked locations and erect this beam first. Pad locations shall be adjusted if necessary, to center the pads under stems.

Determine the need for shims and grinding by performing the following tests:

- a) Check the bearings. If contact between stem and pad is not apparent, shimming at the low bearing and/or grinding at the adjacent high bearing is required. Grinding of the concrete bridge seat shall be limited to $\frac{3}{8}$ inch maximum.
- b) If there is contact between stem and pad but the sealing ribs around the pad perimeter (top and bottom) are not compressed by at least $1/\!\!/_4$ inch total, insert a shim plate between the low bridge seat and the pad. As an option, the contractor may grind the adjacent high bearing in accordance with (a) above.
- 2. Check carefully the location (position, alignment, etc.) of the erected beam before proceeding with the erection of the other beams.
- 3. Erect adjacent beams by repeating steps I and 2 above. Post-tensioning ducts must line up and pads must be centered under stems.
- 4. After erection of all beams, a final check of their positions shall be done prior to proceeding with additional work.
- 5. Insert backer rods in keyways between beams.
- 6. Join post-tensioning ducts as detailed in the plans. The couplers at the joints shall be securely wrapped with duct tape to prevent grout penetration into the ducts during grouting of the keyways. DO NOT install P.T. strands at this time.

61/2 "

SIDE ELEVATION

7. Fill longitudinal keyways between beams with approved non-shrink, non-metallic grout. The grouted keyways shall not be disturbed and shall be wet cured for a period of not less than 72 hours.

Post-tensioning may start after grout has cured and reached a minimum strength of 4000 psi.

Each tendon shall consist of three (3) seven-wire $\frac{1}{2}$ inch diameter strands. The strands shall meet the reguirements of ASTM A-416, Grade 270 and have low relaxation properties. The ends of the strands shall be "color coded" to insure same position at both anchorage plates.

8. Post-tension the centermost (at/or near midspan) tendon first. Then, adjacent tendons on both sides, repeating this sequence until all tendons are stressed.

If the tendon's path is straight end to end (uncrowned bridge section) the tendons may be stressed from either end.

If the tendon's path is not straight end to end (crowned bridge section) the tendons shall be stressed from one end, alternating bridge sides, so that every other tendon is stressed from the same side of the bridge.

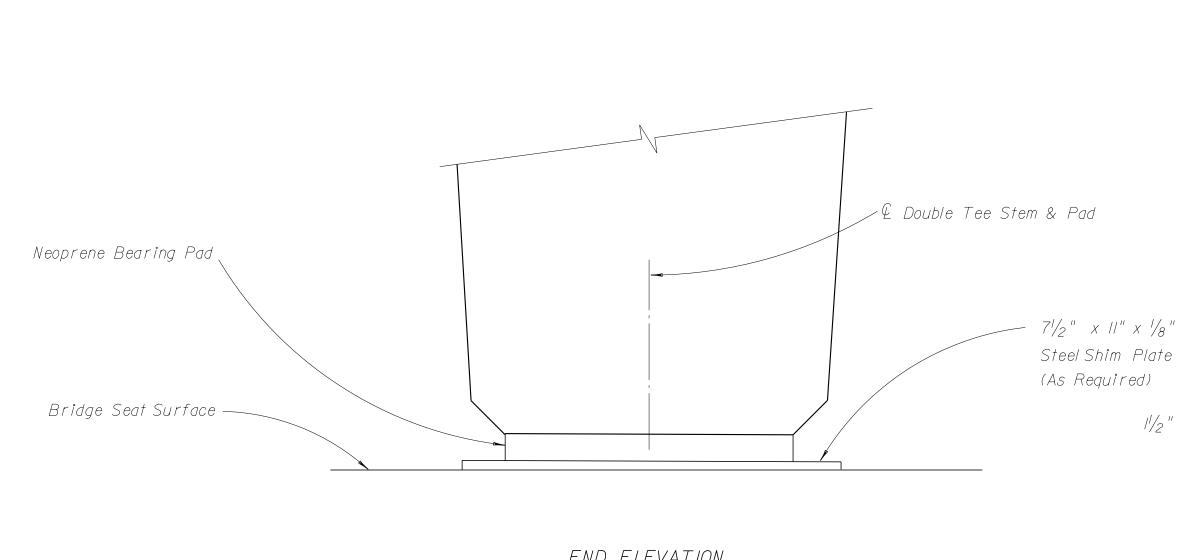
The jacking force required for each $/\!\!/_2$ inch strand before anchor set is 30.99 kips.

- 9. Grout ducts and fill anchorage blockouts with approved non-shrinknon-metallic grout. The grouted tendons shall not be disturbed for a period of 72 hours.
- 10. Construct end diaphragms.
- II. Remove lifting devices. Any metal shall be removed to one (I) inch below the surface and the hole in the concrete shall be grouted flush. The Grout used for the patch shall be an approved non-shrink, non-metallic grout. The color of the grout shall match the color of the adjacent concrete surface.
- 12. Check riding surface in accordance with the specifications and grind areas not in compliance. Depths of grinding shall be limited to $\frac{1}{2}$ inch maximum.
- 13. Construct all superimposed superstructure items such as barriers, sidewalks,etc.
- 14. Provide deck grooving in accordance with Section 400-15.

PROJECT NO.

15. Construct transverse deck joints at span ends in accordance with the details.

> Note: Steel Shim Plates shall conform to ASTM A36 and shall be hot dip galvanized.



REVISIONS

90

DATE BY

DESCRIPTION

DATE BY

Designation M251.

END ELEVATION (FDT30 Stem Shown)

DRAWN BY

CHECKED BY

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WEH

AJG

AJG

DESCRIPTION

PLAN

SECTION

NEOPRENE PAD DETAILS

NOTE: Neoprene in all Bearing Pads shall have a Grade

60 hardness. Steel Plates shall conform to AASHTO

TYPICAL INSTALLATION (FDT18, FDT24 & FDT30)

DATES ENGINEER OF RECORD: LOGO 8 5-90 STRUCTURES DESIGN OFFICE 6-90 CENTRAL OFFICE TJB:/BR 6-90 605 Suwannee Street, MS 33 AJG | 6-90 Tallahassee, Florida 32399-0450

1/2" Chamfer_

SEAL:

— £ Bearing Pad

— Neoprene Bearing Pad

ROAD NO.

FLORIDA DEPARTMENT OF TRANSPORTATION STRUCTURES DESIGN OFFICE COUNTY

7½" x 11" x 1/8"

Steel Shim Plate

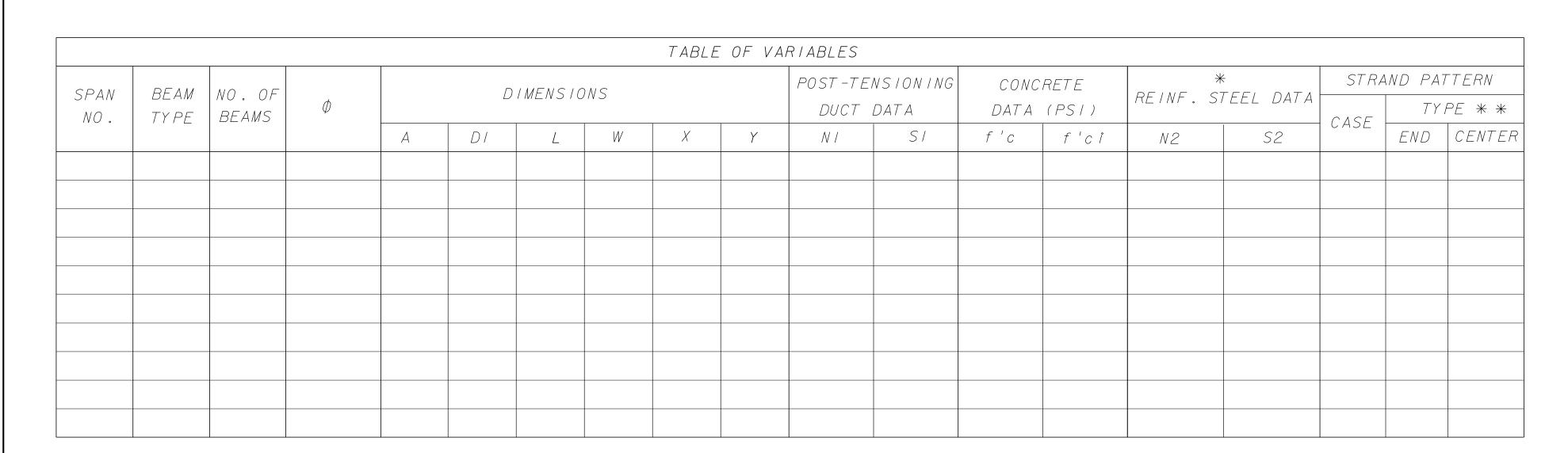
(As Required)

DRAWING NO. FLORIDA DOUBLE-TEE 1 of: 1 BEARINGS & CONSTRUCTION NOTES INDEX NO. 12:8

FED. ROAD DIV. NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.
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* NOTE• Reinf. Steel Data	refers to reinforcement for	superimposed cast-in-place	elements such as Barriers, etc.

- ** NOTE: Strand Pattern Type at "End" applies at the extreme end of the beam. The pattern at the "Center" applies between hold down points.
- NOTE: All strands shall be $\frac{1}{2}$ " ϕ Low Relaxation Strands conforming to ASTM A416, Grade 270. Dimension "L" applies along bottom of Stem. This dimension requires no correction for elastic and time dependent shortening effects; however, at End Bents of skewed bridges the stem end may require coping to clear backwall, See Index 127.





*** Strands terminating within Diaphragm blockout

TYPE 2

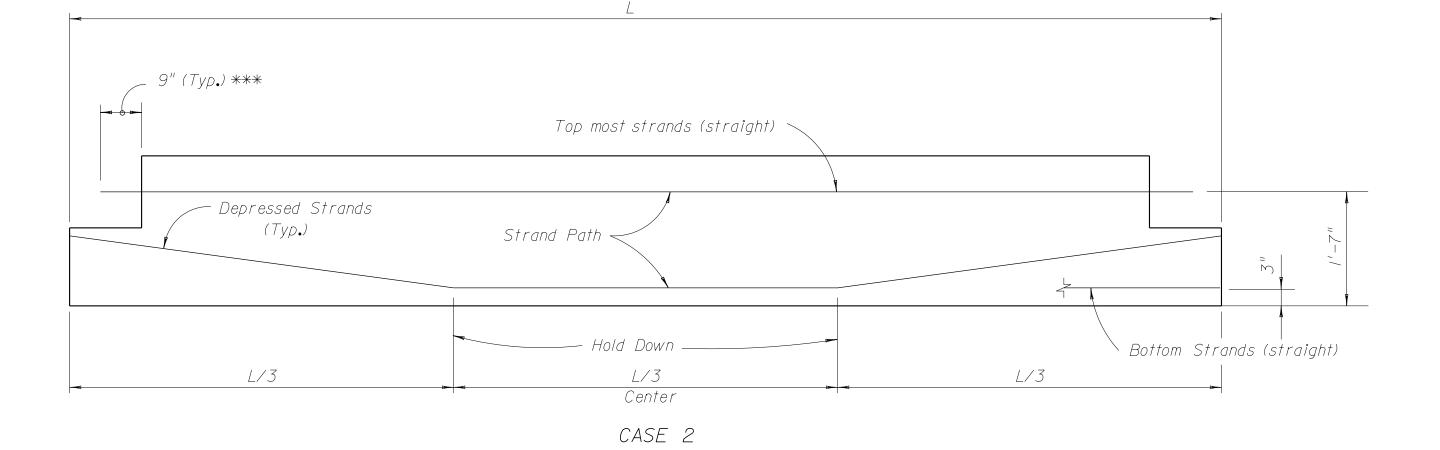
CASE 1

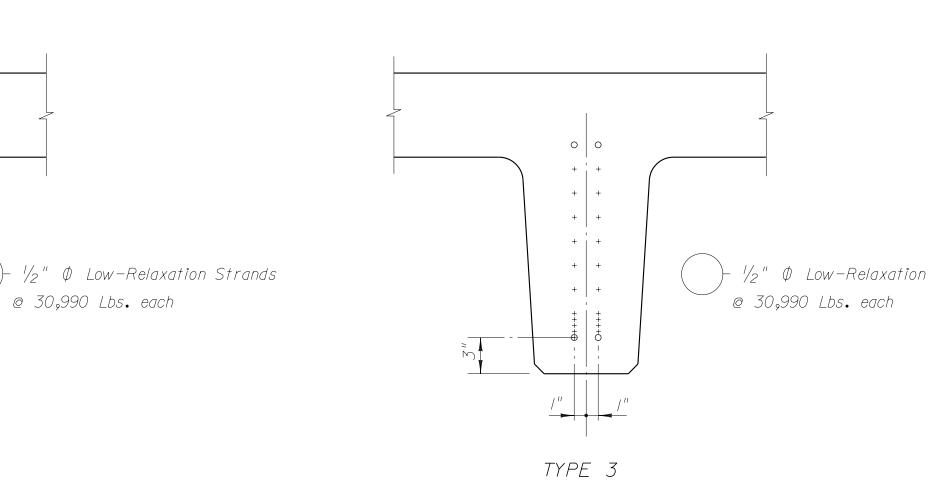
Note to Designer. Show all strands and dimensions within stem, and total number of strands within circle Also, erase all strand locations (+'s) not used, and this note after completing this drawing.

@ 30,990 Lbs. each

+ + + + + +

TYPE I





-1/2" ϕ Low-Relaxation Strands

	- ½" \$\theta Low-Relaxation Strands \$\@ 30,990 Lbs. each
TYPE	4

STRAND	PATTERN	TYPE

STRAND PATTERN CASE (Side Elevation)

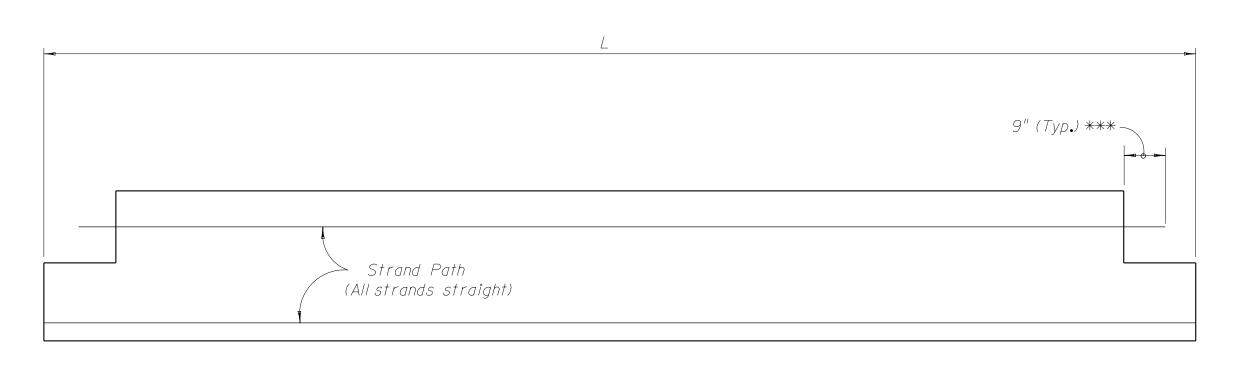
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NO.	TYPE	NO. OF BEAMS	ϕ		D	111111113101	VS			DUCT	DATA	DATA (PSI)		REINF . S	STEEL DATA	- CASE	TYPE *	
	, , , , <u> </u>			A	DI	L	W	X	Y	N /	S/	f 'C	f'ci	N2	<i>S2</i>	CASL	END	CENTER

- * NOTE: Reinf.Steel Data refers to reinforcement for superimposed cast-in-place elements such as Barriers, etc.
- ** NOTE: Strand Pattern Type at "End" applies at the extreme end of the beam. The pattern at the "Center" applies between hold down points.

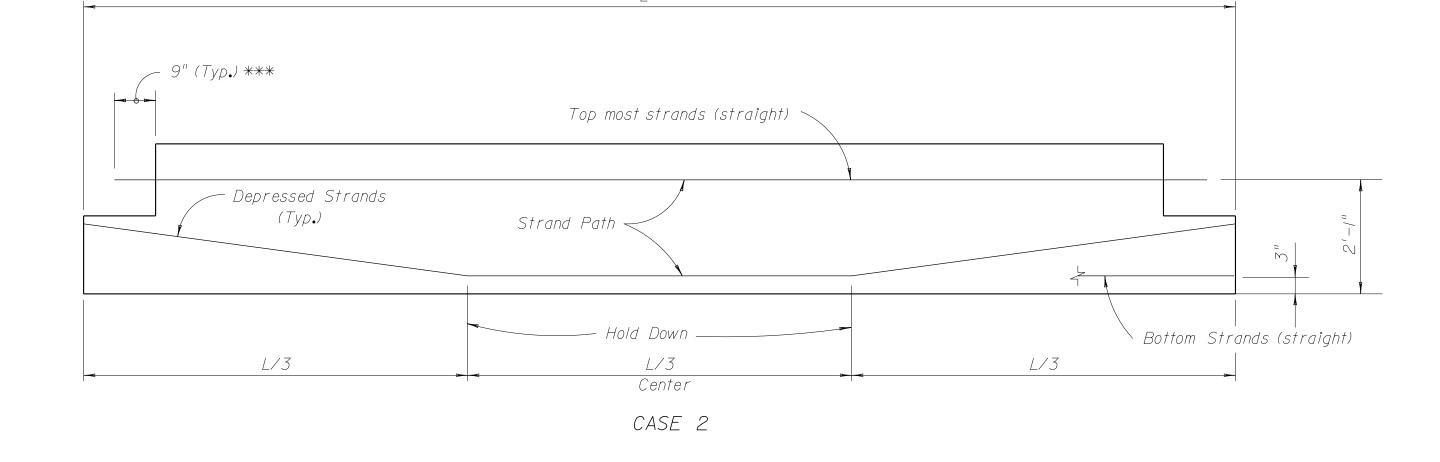
NOTE. All strands shall be 1/2" ϕ Low Relaxation Strands conforming to ASTM A416, Grade 270. Dimension "L" applies along bottom of Stem. This dimension requires no correction for elastic and time dependent shortening effects; however, at End Bents of skewed bridges the stem end may require coping to clear backwall, See Index 127.

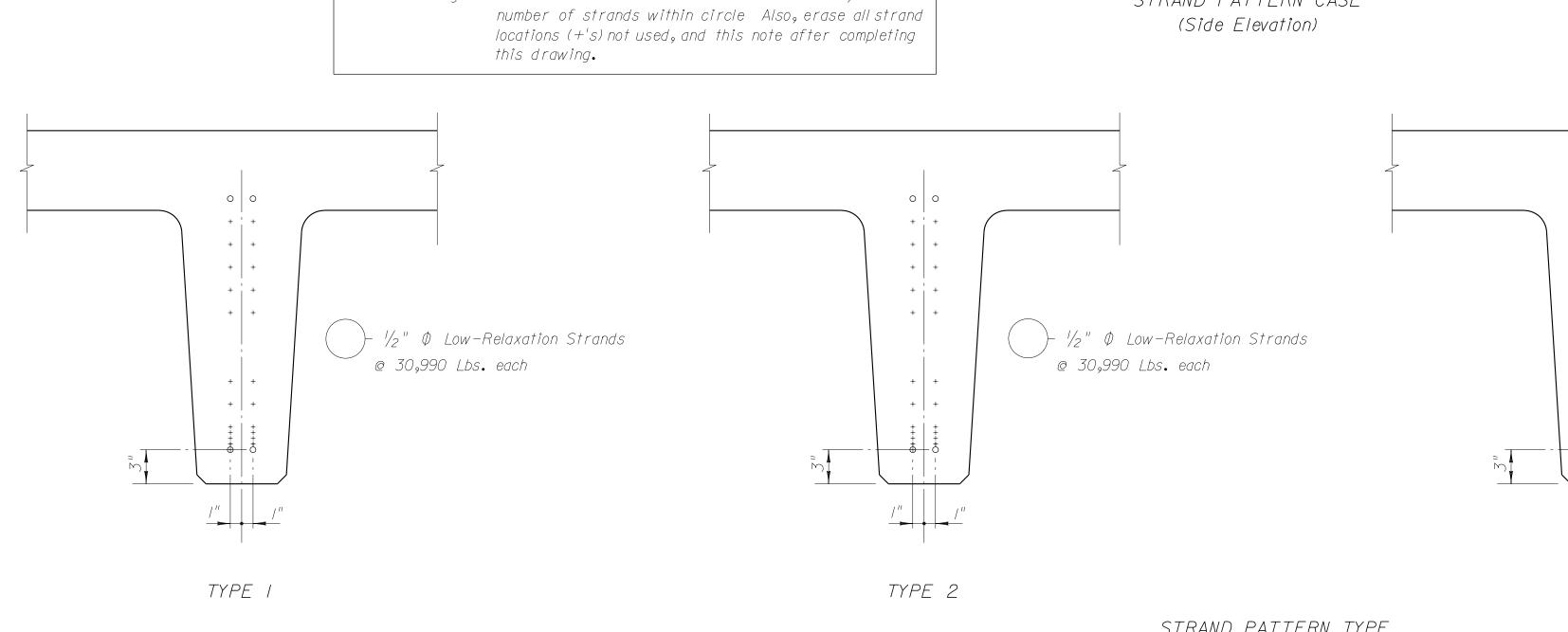


*** Strands terminating within Diaphragm blockout

CASE /

Note to Designer. Show all strands and dimensions within stem, and total





+ + + + + + + + -1/2" ϕ Low-Relaxation Strands -1/2" ϕ Low-Relaxation Strands @ 30,990 Lbs. each @ 30,990 Lbs. each + + + + + TYPE 3 TYPE 4

STRAND	PATTERN	TYPE

STRAND PATTERN CASE

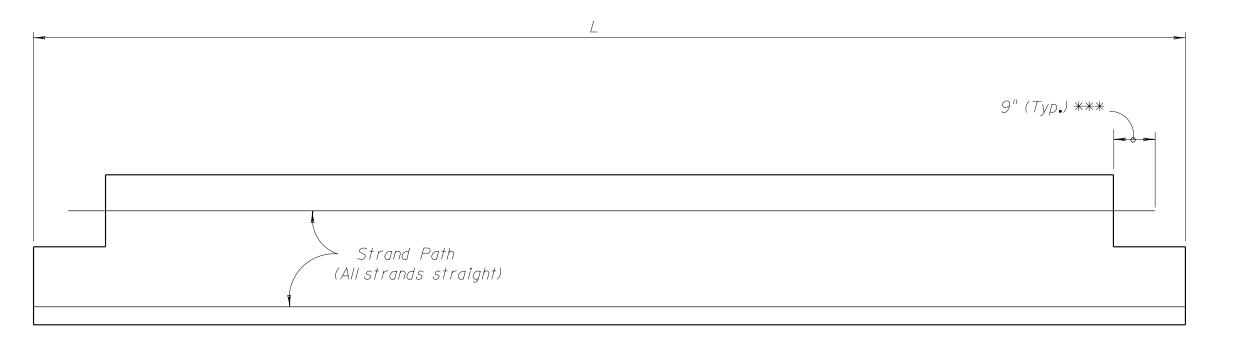
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				А	DI	L	W	X	Y	N /	SI	f 'c	f 'c i	N2	S2	CASL	END	CENTER

- * NOTE: Reinf. Steel Data refers to reinforcement for superimposed cast-in-place elements such as Barriers, etc.
- ** NOTE: Strand Pattern Type at "End" applies at the extreme end of the beam. The pattern at the "Center" applies between hold down points.

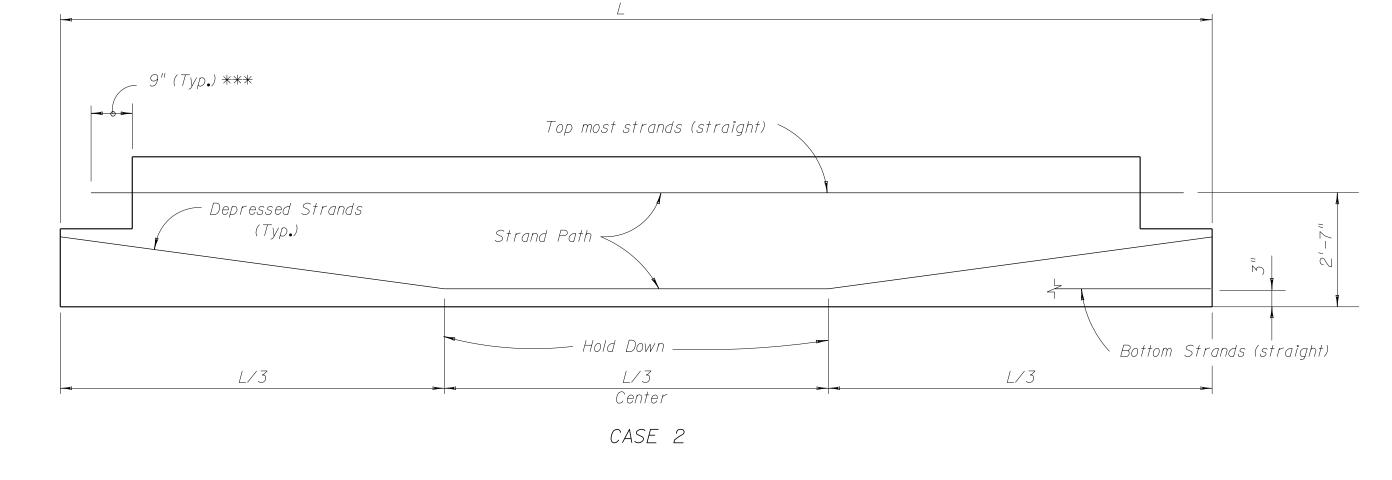
NOTE. All strands shall be $\frac{1}{2}$ " ϕ Low Relaxation Strands conforming to ASTM A416, Grade 270. Dimension "L" applies along bottom of Stem. This dimension requires no correction for elastic and time—dependent shortening effects, however, at End Bents of skewed bridges the stem end may require coping to clear backwall, See Index 127.

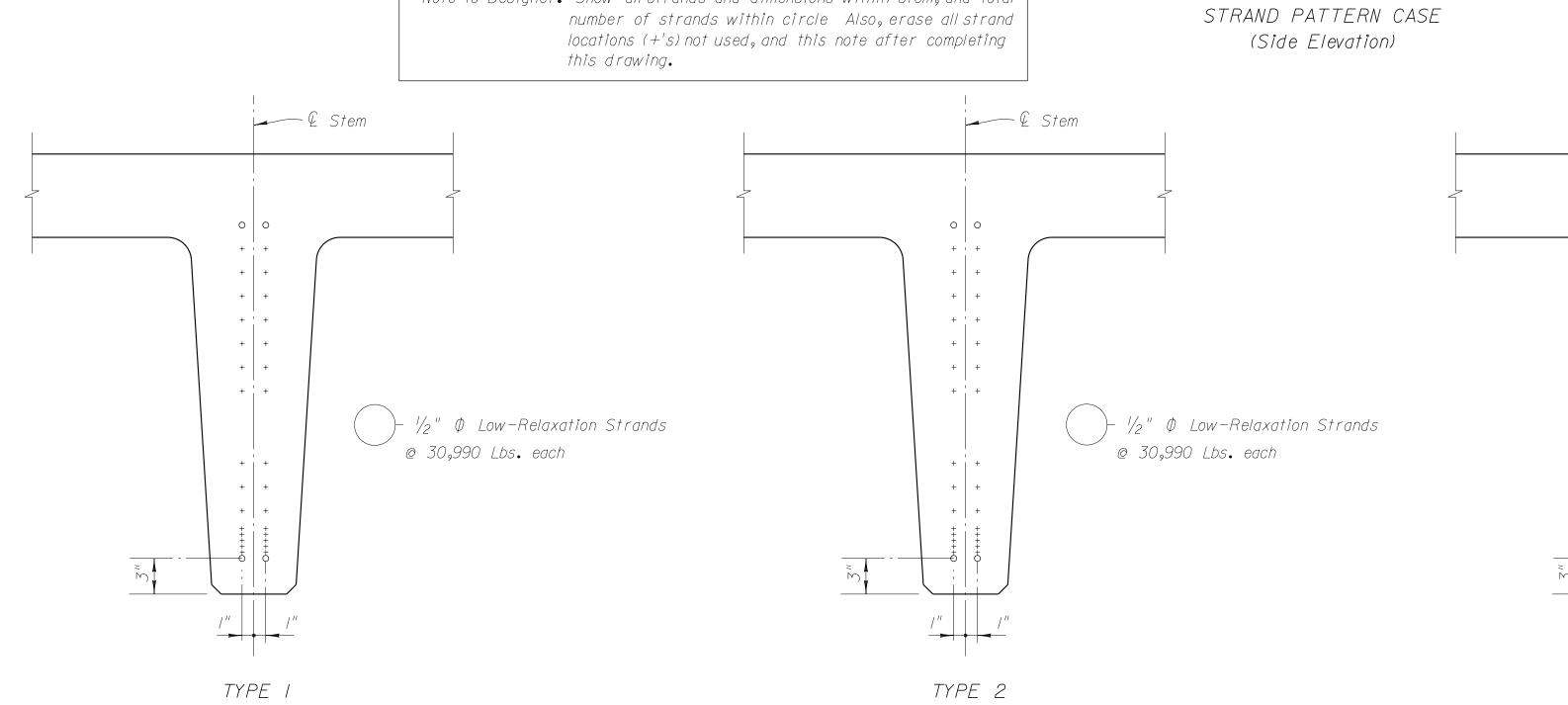


*** Strands terminating within Diaphragm blockout

CASE 1

Note to Designer: Show all strands and dimensions within stem, and total





num-Pelanation Stranga
low, ench

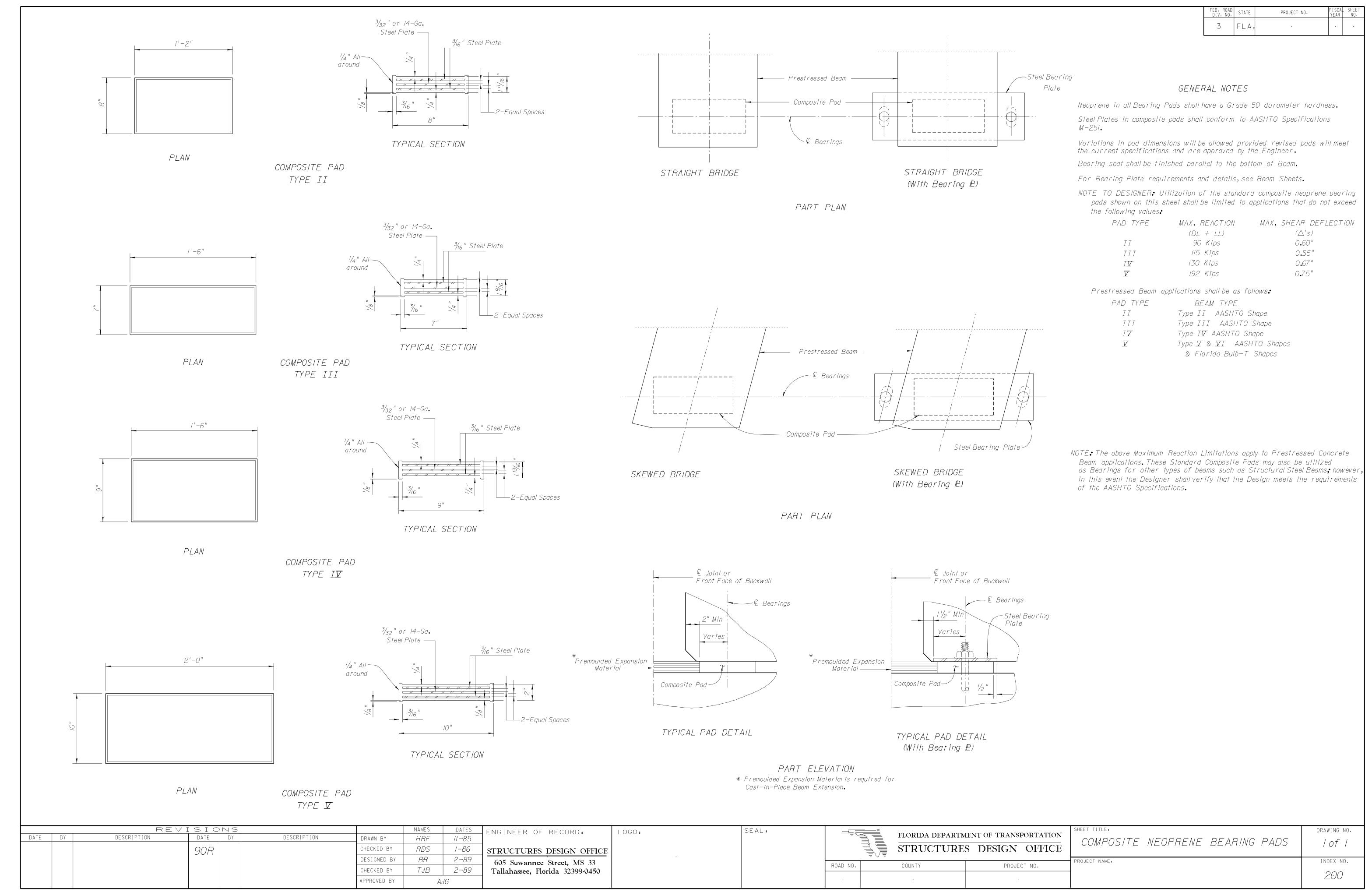
Wiff & Inum-Relaxation Stranga
A SOSBO Low, each

Type 3

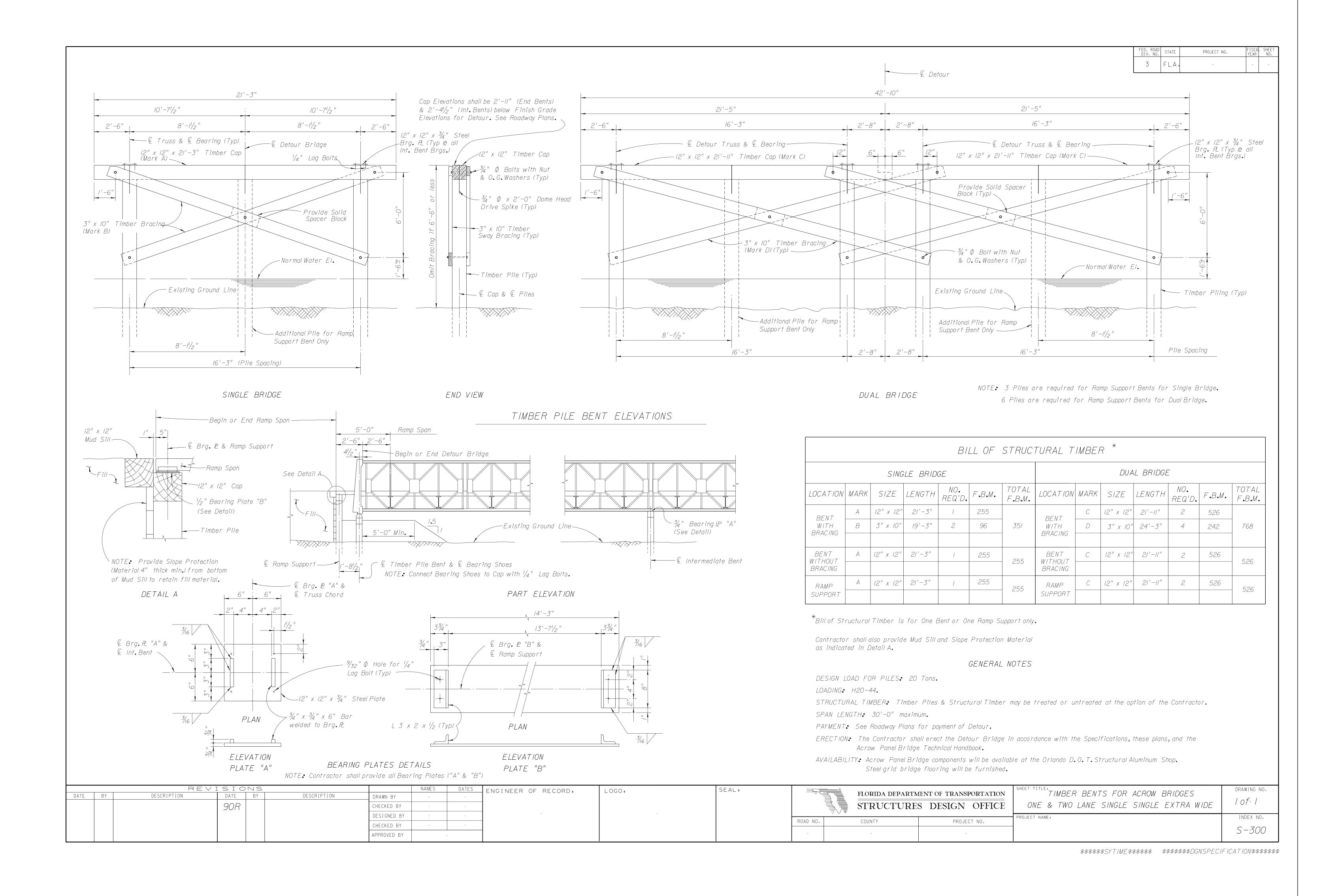
Type 4

STRANG PATTERN Type

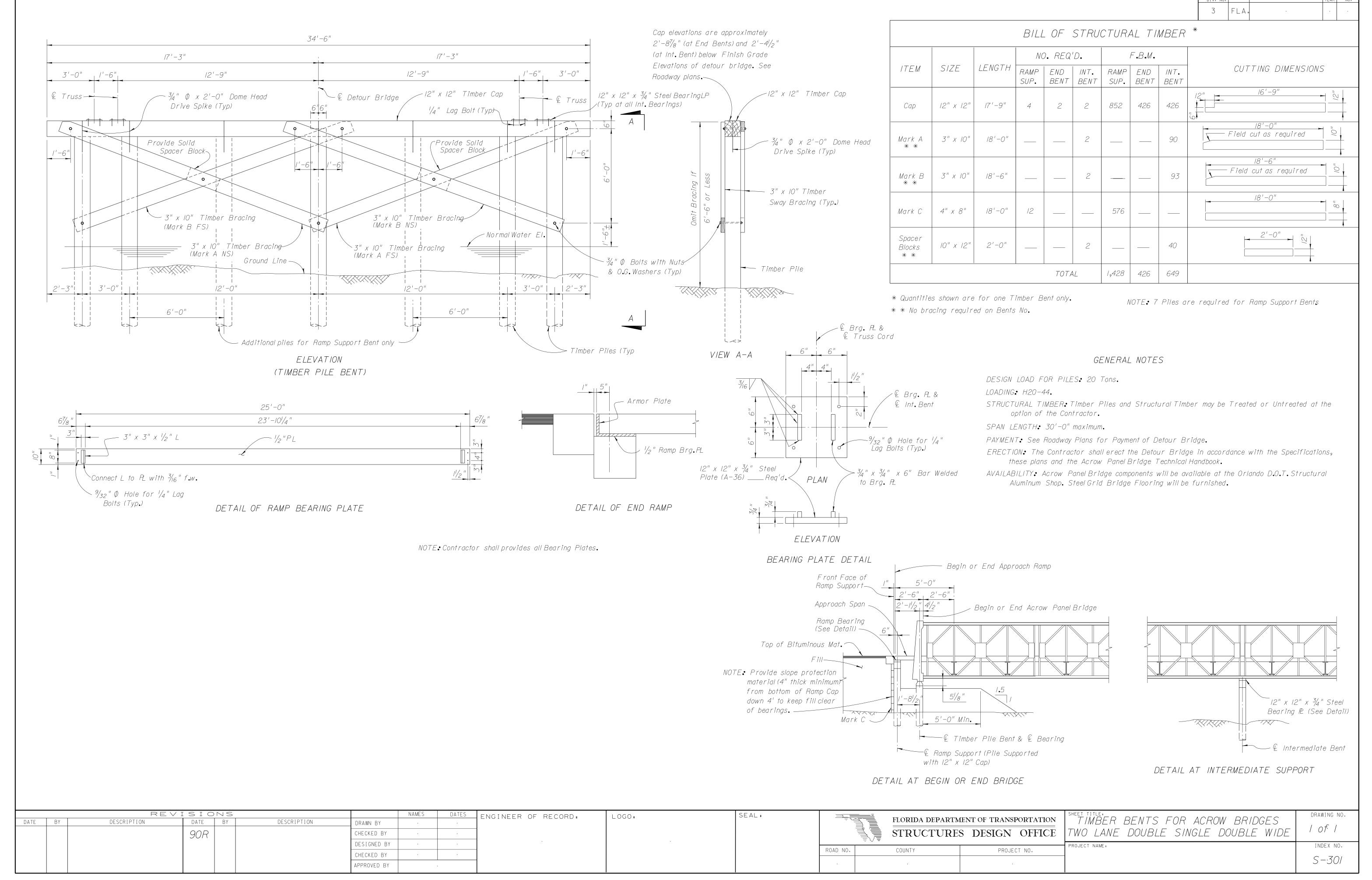
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			$ \overline{=} \sqrt{\overline{=}} $
		IGNED BY	ROAD NO. COUNTY PROJECT NO. PROJECT NAME:
		CKED BY	
		ROVED BY .	S-131











PROJECT NO.

18'-0" LIST OF STRUCTURAL TIMBER * 9'-0" 9'-0" SIZE | LENGTH | No.REQ'D | F.B.M. CUTTING DIMENSIONS ITEM 6'-5|/2" 6'-51/2" 2'-61/2" 2'-61/2" −12" X 12" x ¾" Steel Plates 18'-0" \frown ℓ Cap and ** ₽ Piles 216 12" x 12" | 18'-0" Cap Elevations are approximately — I'-8" below the Finished Grade Elevations of Detour. 1/4" Lag Bolt (Typ.) 16'-0" $\frac{3}{4}$ " ϕ Bolt with nut & _ See Roadway Plans. — Field cut as required O.G. Washer (Typ.) MARK C | 3" x 10" | 16'-0" 80 - 3"x 10" Timber Bracing (Mark C)(N.S.) 12" x 12" (Typ.) Timber Cap SPACER 10" x 12" | 2'-0" Head Drive Spike (Typ.) 20 BLOCK NOTE: Eliminate bracing at beginning and end of TOTAL316 3"xIO" Timber Sway Bracing ∼ Provide Solid Spacer Block * Quantities shown are for One Timber Bent only. ** Two (2) additional caps of same size are required for "Mud Sills" for ends of grating approaches on fill. 3"x IO" Timber Bracing (Mark C)(F.S.)Normal Water Elevation GENERAL NOTES

END VIEW

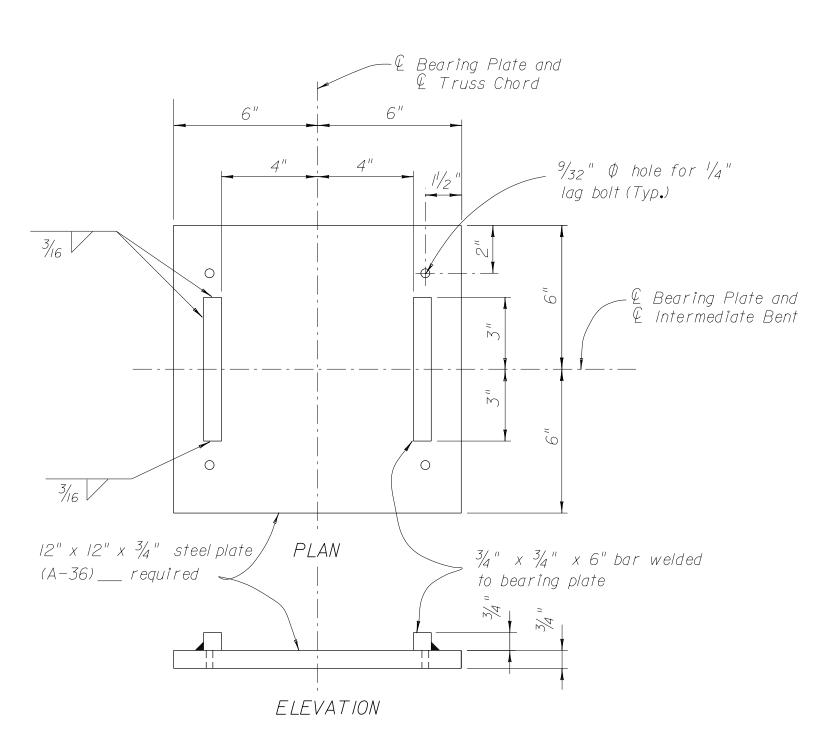
12" Timber Pile (Typ.)

Pile Spacing

TIMBER PILE BENT (For Single Lane Bailey Bridge)

12'-//"

- Ground Line



NOTE. Contractor shall provided all bearing Plates.

BEARING PLATE DETAILS

		REVI	ISIONS			NAMES	DATES	ENGINEER OF RECORD:	LOGO:	SEAL:
DATE	BY	DESCRIPTION	DATE BY	DESCRIPTION	DRAWN BY					
			90R		CHECKED BY					
					DESIGNED BY			·	·	
					CHECKED BY					
					APPROVED BY					

	<u> </u>	S DESIGN OFFICE	SHEET TITLET IMBER BENTS FOR BAILEY BRIDGE ONE LANE SINGLE-SINGLE (TYPE M-1)
ROAD NO.	COUNTY	PROJECT NO.	PROJECT NAME:

DESIGN LOAD FOR PILES: 20 TONS

LOADING: HS20-44

STRUCTURAL TIMBER• Timber piles and structural timber may be treated or untreated at the option of the Contractor.

SPAN LENGTH• 30'-0" Maximum

PAYMENT. See Roadway Plans for payment of detour.

ERECTION: The Contractor shall erect the detour bridge in accordance with the specifications, these plans, and the "Bailey Uniflote Handbook". Steel grid bridge flooring will be furnished in lieu of Bailey Bridge flooring and shall be welded to the transom. Welds shall be made and removed with care to avoid damage to the transom.

AVAILABILITY: Contractor shall pickup and return all Bailey Bridge components at the FDOT maintenance yard located in Defuniak Springs, Florida.

DRAWING NO.

INDEX NO.

S-:310

1 of: 1

See Roadway Plans.

LIST OF STRUCTURAL TIMBER * 10'-0" SIZE | LENGTH | No.REQ'D | F.B.M. CUTTING DIMENSIONS ITEM 2'-7" 7'-5" 19'-0" — € Cap and ₽ Piles | 12" x 12" | 20'-0" 240 18'-0" 3/4" D Bolt with nut &_ — Field cut as required O.G. Washer (Typ.) MARK C | 3" x 10" | 18'-0" 90 12" x 12" Timber Cap *− ¾" Φ x 2'−0" Dome─* SPACER 10" x 12" 2'-0" 20 NOTE: Eliminate bracing Head Drive Spike (Typ•) BLOCK at beginning and end of TOTAL350

* Quantities shown are for One Timber Bent only.

** Two (2) additional caps required for mud sills at ends of grating approaches.

GENERAL NOTES

DESIGN LOAD FOR PILES. 20 TONS

LOADING. HS20-44

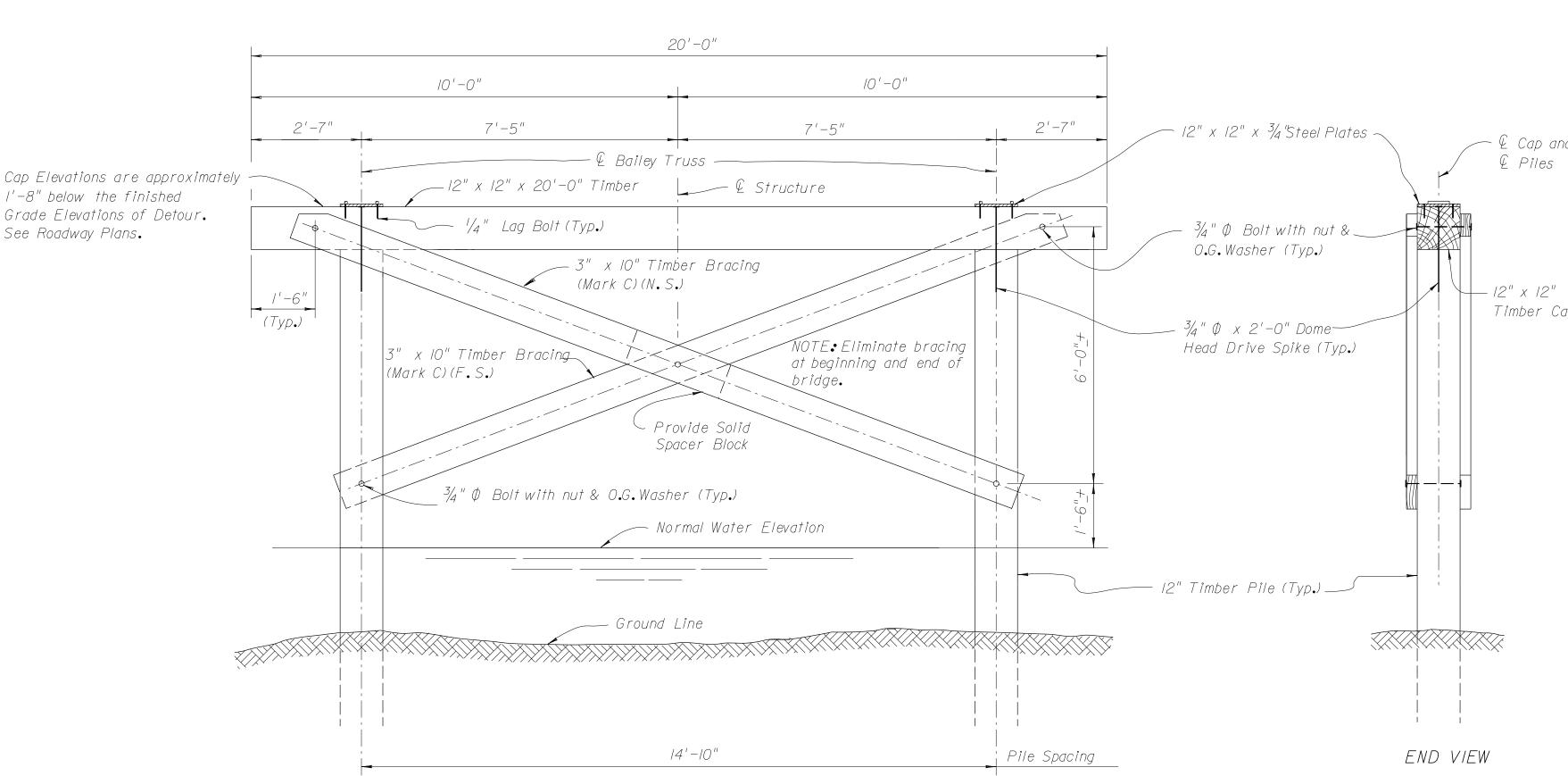
STRUCTURAL TIMBER: Timber piles and structural timber may be treated or untreated at the option of the Contractor.

SPAN LENGTH• 30'-0" Maximum

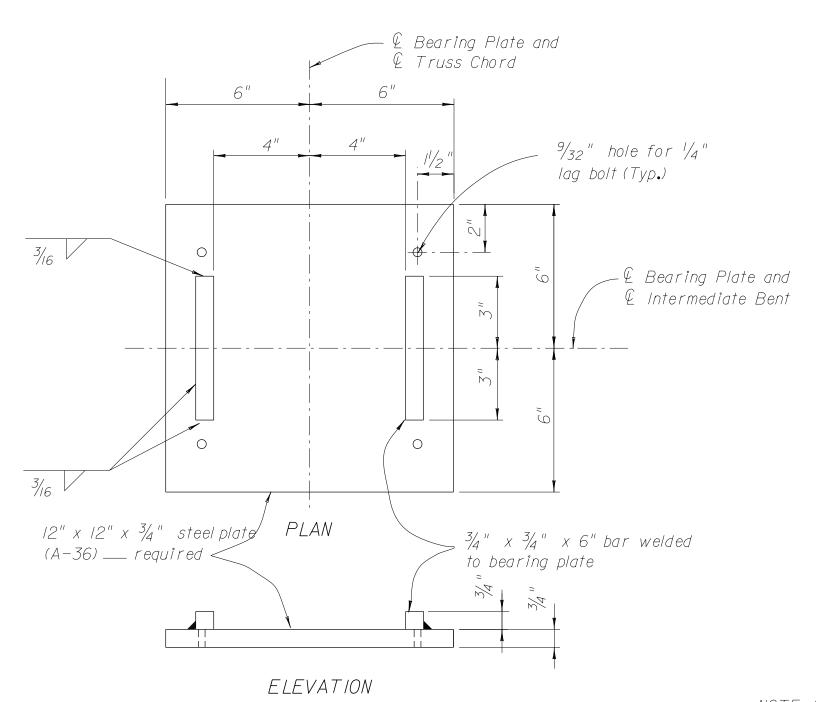
PAYMENT. See Roadway Plans for payment of detour.

ERECTION. The Contractor shall erect the detour bridge in accordance with the specifications, these plans, and the "Bailey Uniflote Handbook". Steel grid bridge flooring will be furnished in lieu of Bailey Bridge flooring and shall be welded to the transom. Welds shall be made and removed with care to avoid damage to the transom.

AVAILABILITY: Contractor shall pickup and return all Bailey Bridge components at the FDOT maintenance yard located in Defuniak Springs, Florida.







NOTE: Contractor shall provide all Bearing Plates.

BEARING PLATE DETAILS

REVISIONS							DATES	ENGINEER OF RECORD: LOGO:	SEAL 8		<u>=</u> ,		ACTIVITY OF JED ANODODE ATTION	SHEET TITLET IMBER BENTS FOR BAILEY BRIDGE	DRAWING NO.
DATE BY	DESCRIPTION	DATE	BY	DESCRIPTION	DRAWN BY							FLORIDA DEPARTMENT OF TRANSPORTATION	ONE LANE SINGLE-SINGLE (TYPF M-2)	1 of 1	
		90R			CHECKED BY						STRUCTURES DESI			ES DESIGN OFFICE	/ 01 /
					DESIGNED BY					= \	- V =			PROJECT NAME:	INDEX NO.
					CHECKED BY			(ROAD NO.		COUNTY	PROJECT NO.		C 711
					APPROVED BY							•			5-311

GENERAL NOTES

DESIGN LOAD FOR PILES. 20 TONS

LOADING. HS20-44

STRUCTURAL TIMBER• Timber piles and structural timber may be treated or untreated at the option of the contractor.

SPAN LENGTH∙ 30'-0" Maximum

PAYMENT. See Roadway Plans for payment of detour.

ERECTION: The contractor shall erect the detour bridge in accordance with the specifications, these plans, and the "Bailey Uniflote Handbook". Steel grid bridge flooring will be furnished in lieu of Bailey Bridge flooring. Steel grid bridge flooring shall be brought into full contact with each transom and then securely fastened at each transom. The Engineer shall approve final assembly of Bailey Bridge components prior to placing traffic on the Bailey Bridge.

AVAILABILITY. Contractor shall pickup and return all Bailey Bridge components at the FDOT maintenance yard located in Defuniak Springs, Florida.

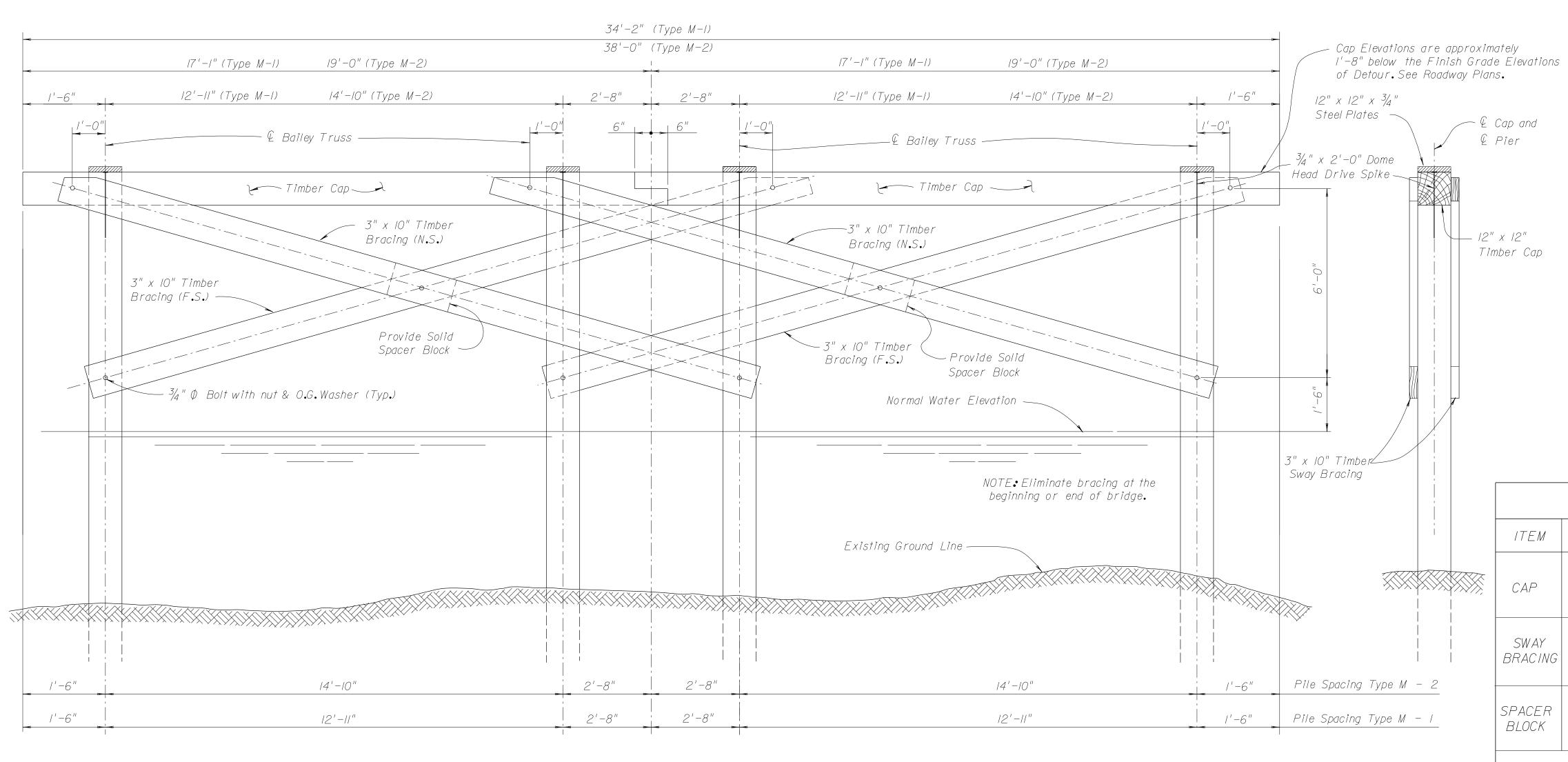
DAMAGE: Contractor shall be responsible for damage to the Bailey Bridge components which occurs while in his possession. FDOT inspection of the Bailey Bridge components for damage will be upon return of the Bailey Bridge components to the FDOT maintenance yard.

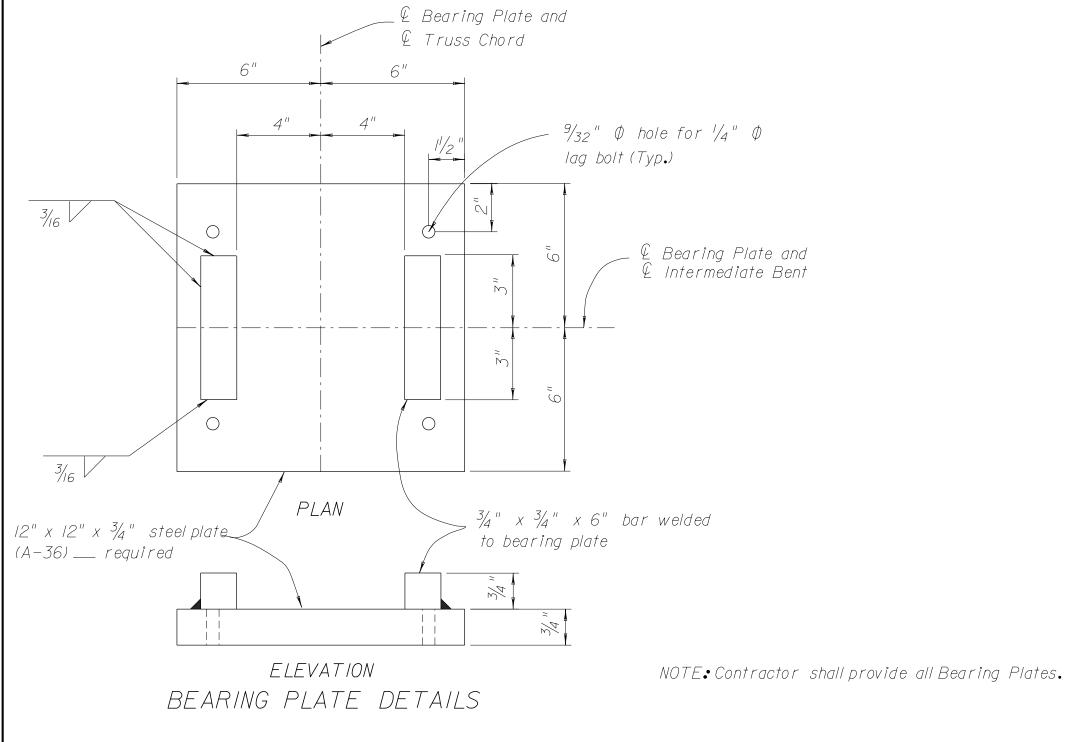
DETOUR BRIDGE TYPE: The contractor shall be responsible for contacting the District Structures Engineer prior to driving piles or purchasing timber to determine if a Type M-I or a Type M-2 Bailey Bridge will be furnished for this project.

LIST OF STRUCTURAL TIMBER $F_{ullet}B_{ullet}M_{ullet}$ CUTTING DIAGRAMS ITEM SIZE $M-I \qquad M-2$ M-I M-2LENGTH CAP12" x 12" | 17'-7" | 19'-6" | 422 468 LENGTH Field cut as reg'd. BRACING 3" x 10" | 22'-1" | 24'-0" 222 240 SPACER

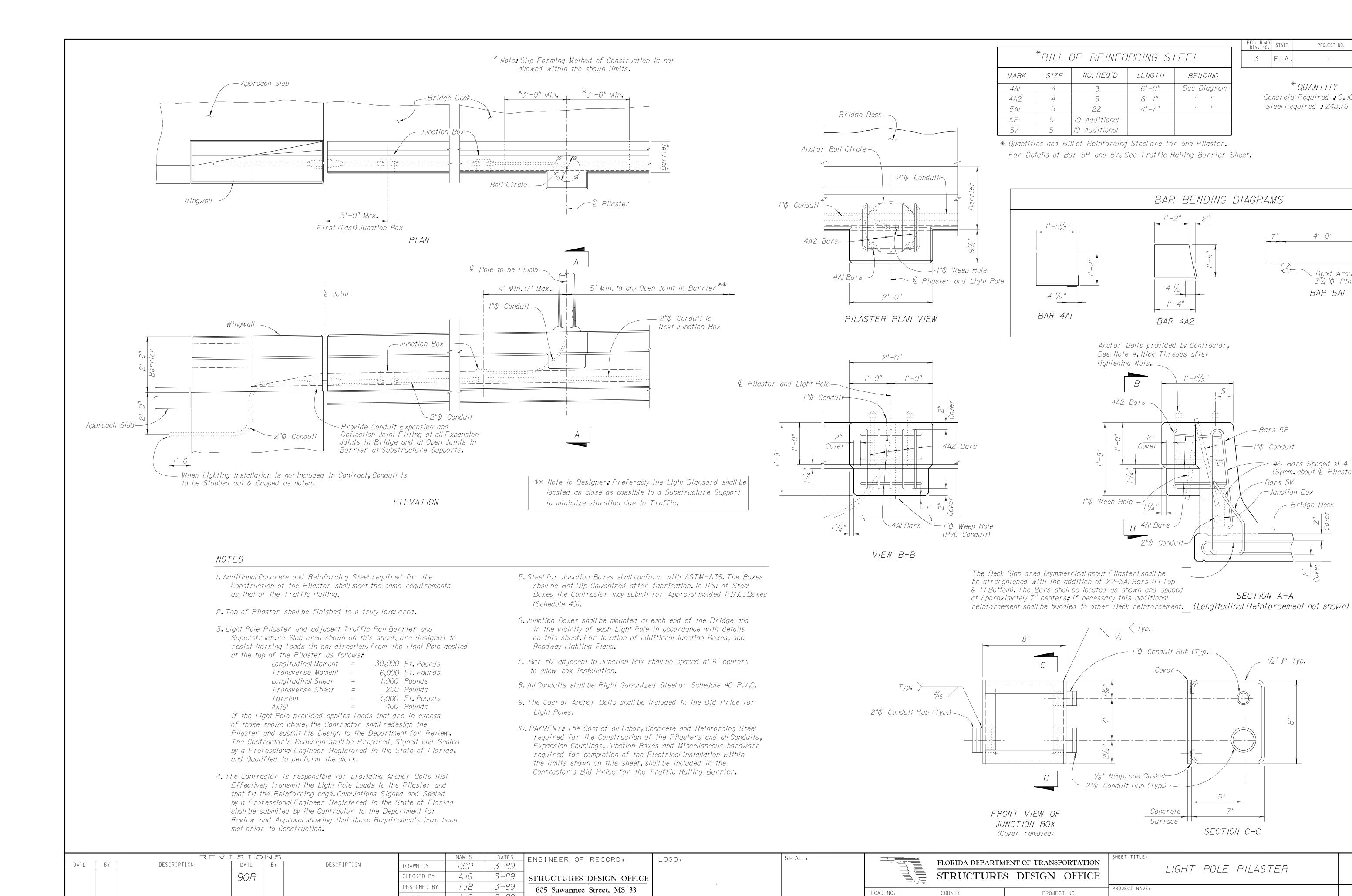
TOTAL | 684 | 748

NOTE. Quantities are for one bent only.





	RE	/ISIONS		NAM	ES DATES	ENGINEER OF RECORD: LOGO:	SE <i>A</i>	AL 8	⇒===			SHEET TITLET IMBER BENTS FOR BAILEY BRIDGE	DRAWING NO.
DATE BY	DESCRIPTION	DATE BY	DESCRIPTION	DRAWN BY .						FLORIDA DEPART	MENT OF TRANSPORTATION	TWO LANES SINGLE-SINGLE	l of l
		90R		CHECKED BY .	·					STRUCTURES DESIGN OFFICE		(TYPE M-1 AND M-2)	/ Ot· /
				DESIGNED BY .			·	_	- V	=		PROJECT NAME:	INDEX NO.
				CHECKED BY		1			ROAD NO.	COUNTY	PROJECT NO.		
				APPROVED BY		-							5-312
				ALLINOVED DI									



AJG

CHECKED BY

APPROVED BY

3-89

AJG

Tallahassee, Florida 32399-0450

DRAWING NO.

INDEX NO.

500

1 of: 1

* QUANTITY

Concrete Required . O. 10 C.Y.

∟Bend Around 3¾"Ф Pin

BAR 5AI

#5 Bars Spaced @ 4" for 6#

(Symm∙about ⊈ Pilaster)

-Bridge Deck

— Bars 5P

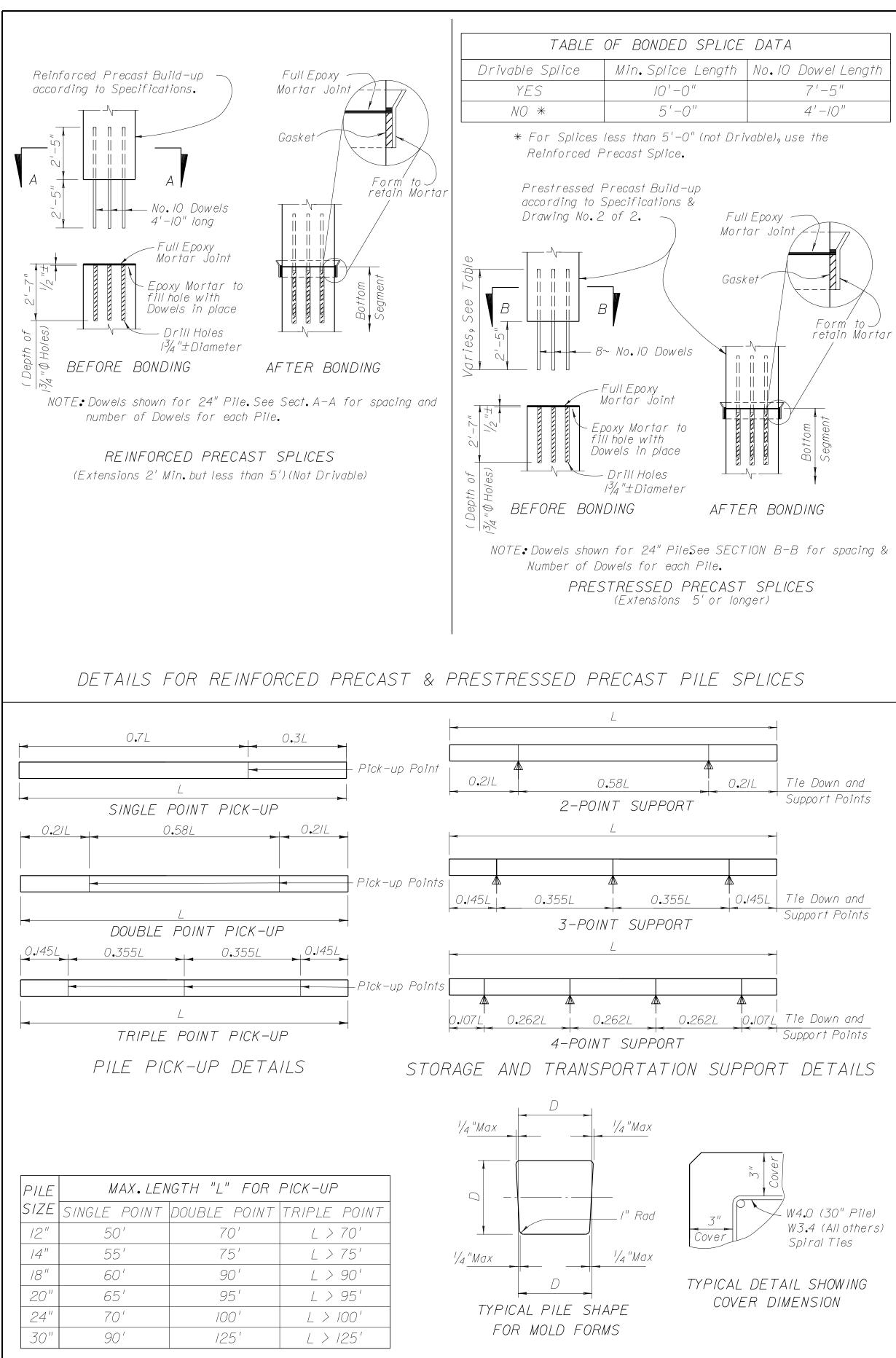
—∣"Ф Conduit

- Bars 5V

Junction Box

1/4" P Typ.

Steel Required • 248.76 Lbs.

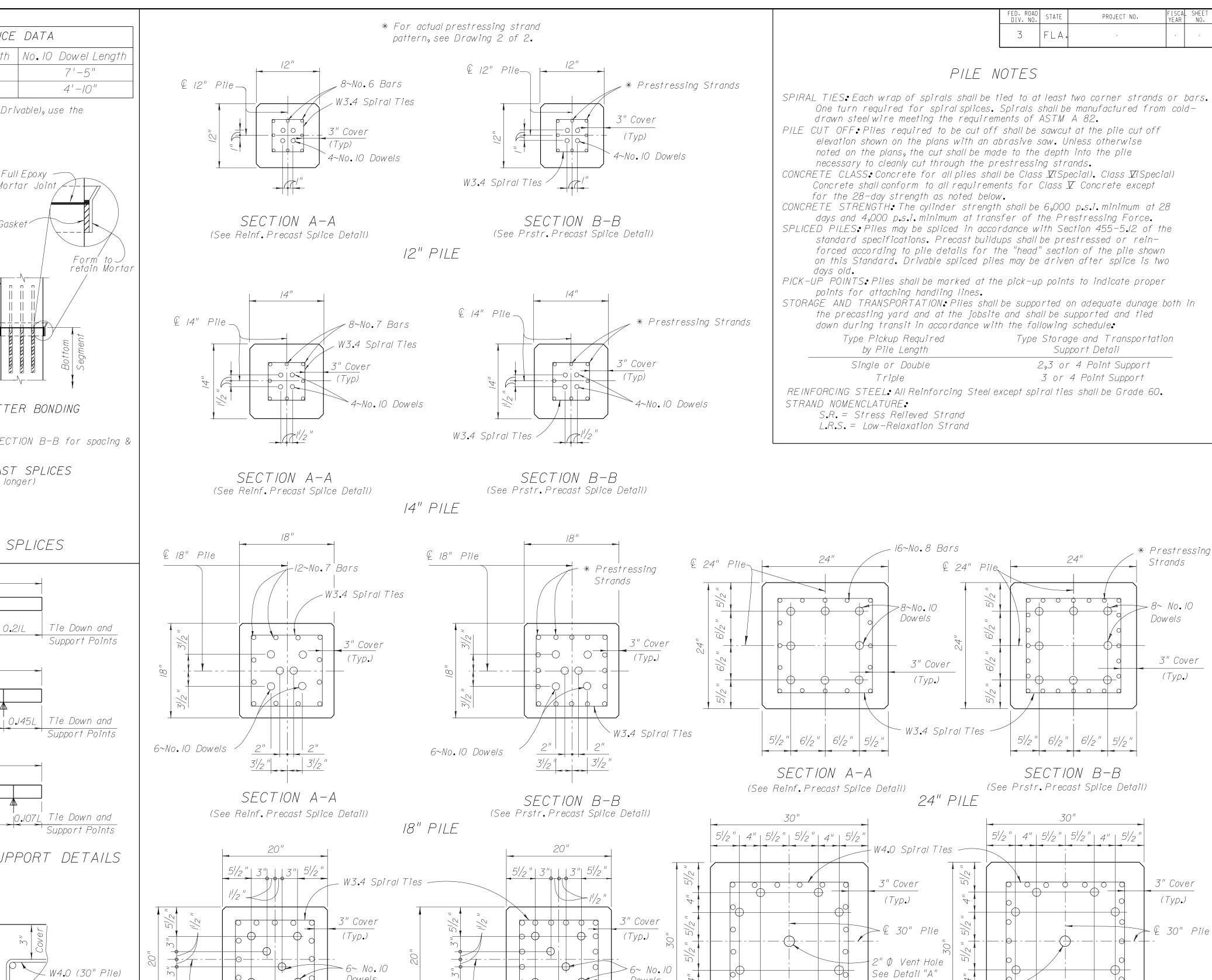


DESCRIPTION

DESCRIPTION

DATE BY

DATE BY



Dowels

SECTION B-B

20" PILE

SEAL:

(See Prstr. Precast Splice Detail)

SECTION A-A

(See Reinf. Precast Splice Detail)

DATES ENGINEER OF RECORD:

STRUCTURES DESIGN OFFICE

605 Suwannee Street, MS 33

Tallahassee, Florida 32399-0450

TGA

AJG

NICHOLS/AJG

DRAWN BY

CHECKED BY

DESIGNED BY

CHECKED BY

APPROVED BY

HEET TITLE: 12", 14", 18", 20", 24", AND 30" DRAWING NO. FLORIDA DEPARTMENT OF TRANSPORTATION 1 of 2 STRUCTURES DESIGN OFFICE PRESTRESSED CONCRETE PILES INDEX NO. COUNTY PROJECT NO. ROAD NO. 600

(See Reinf. Precast Splice Detail) Dowels —

Drawing 2 of 2

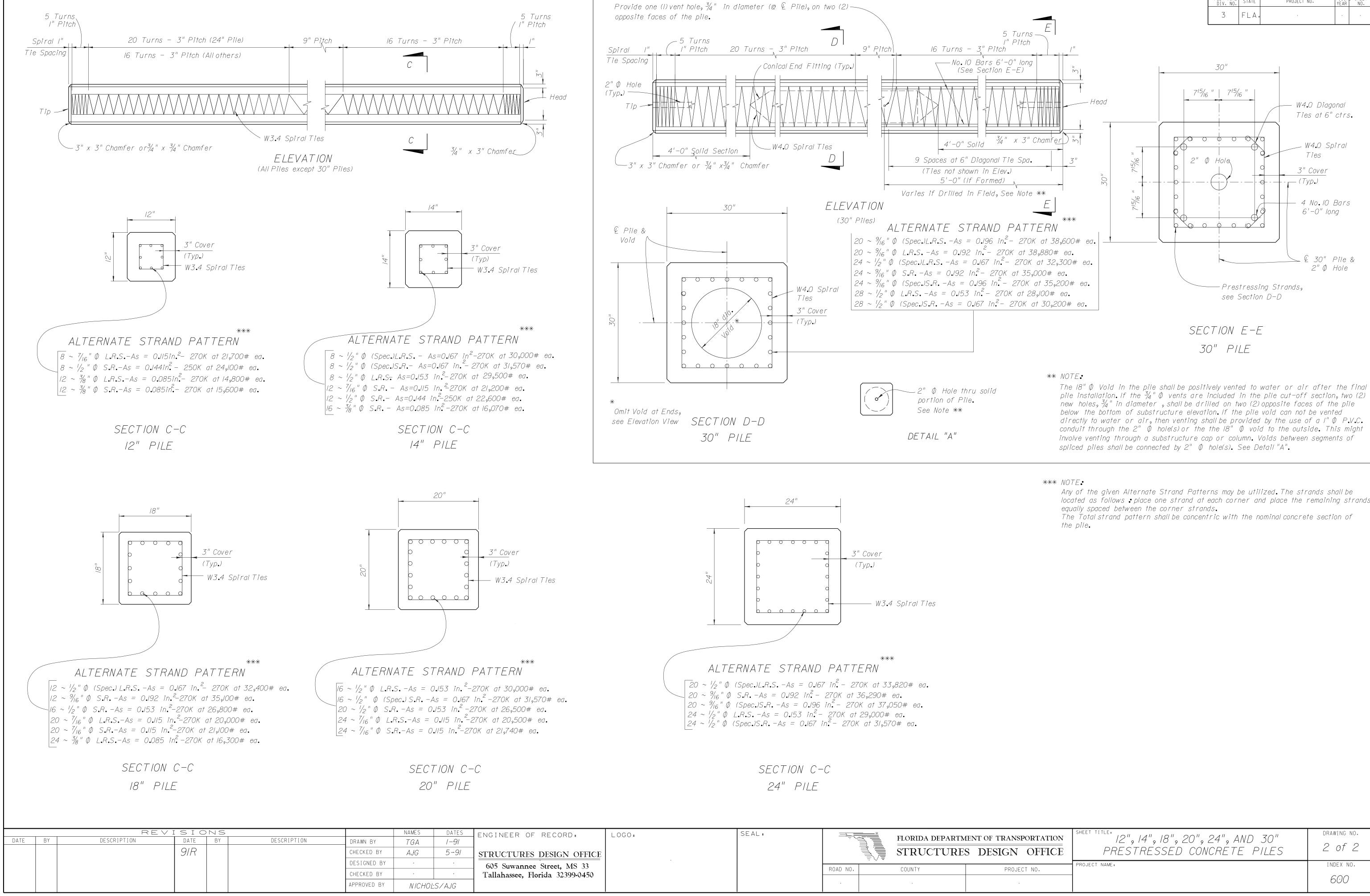
30" PILE

(See Prstr. Precast Splice Detail)

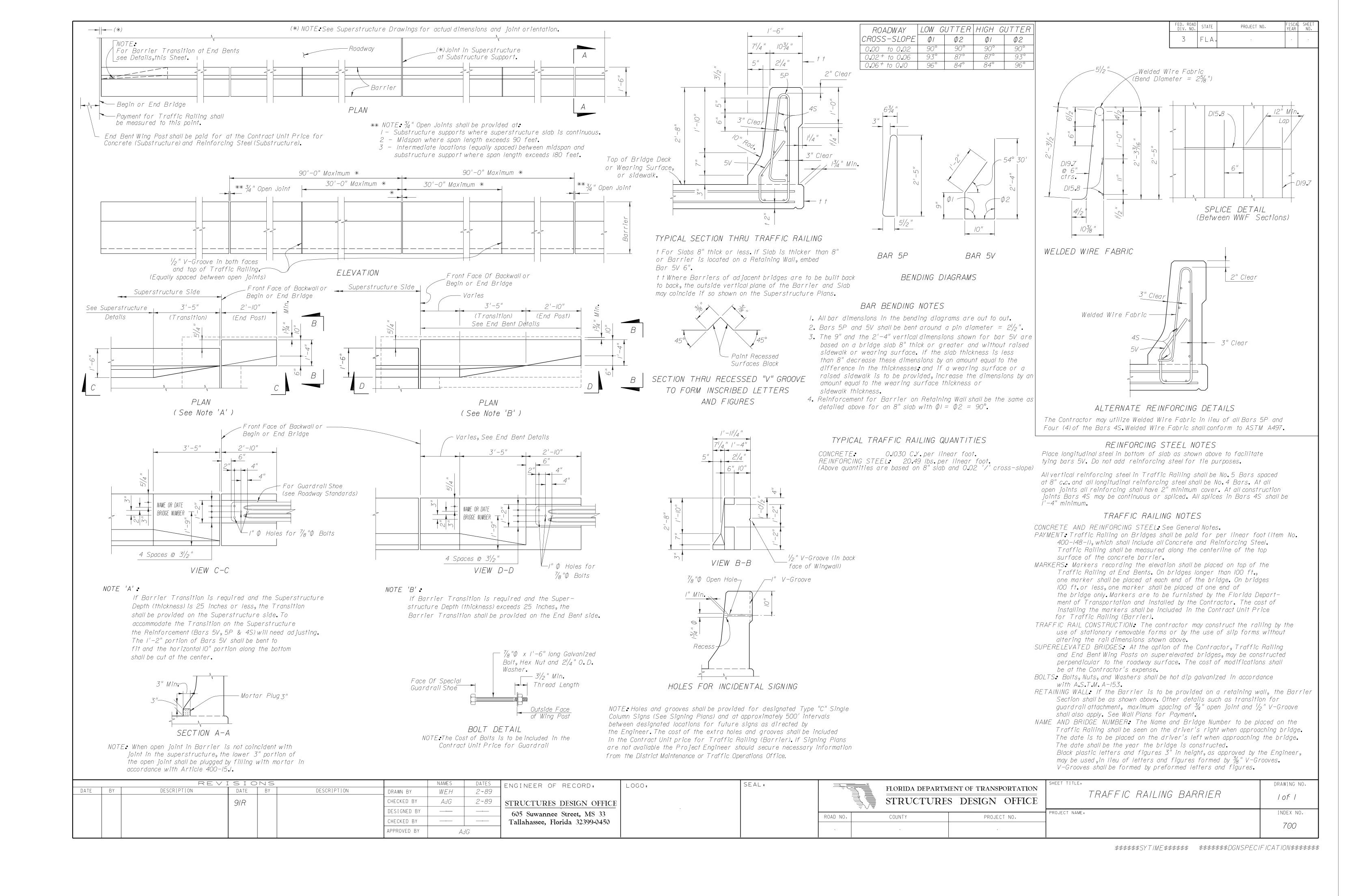
* Prestressing

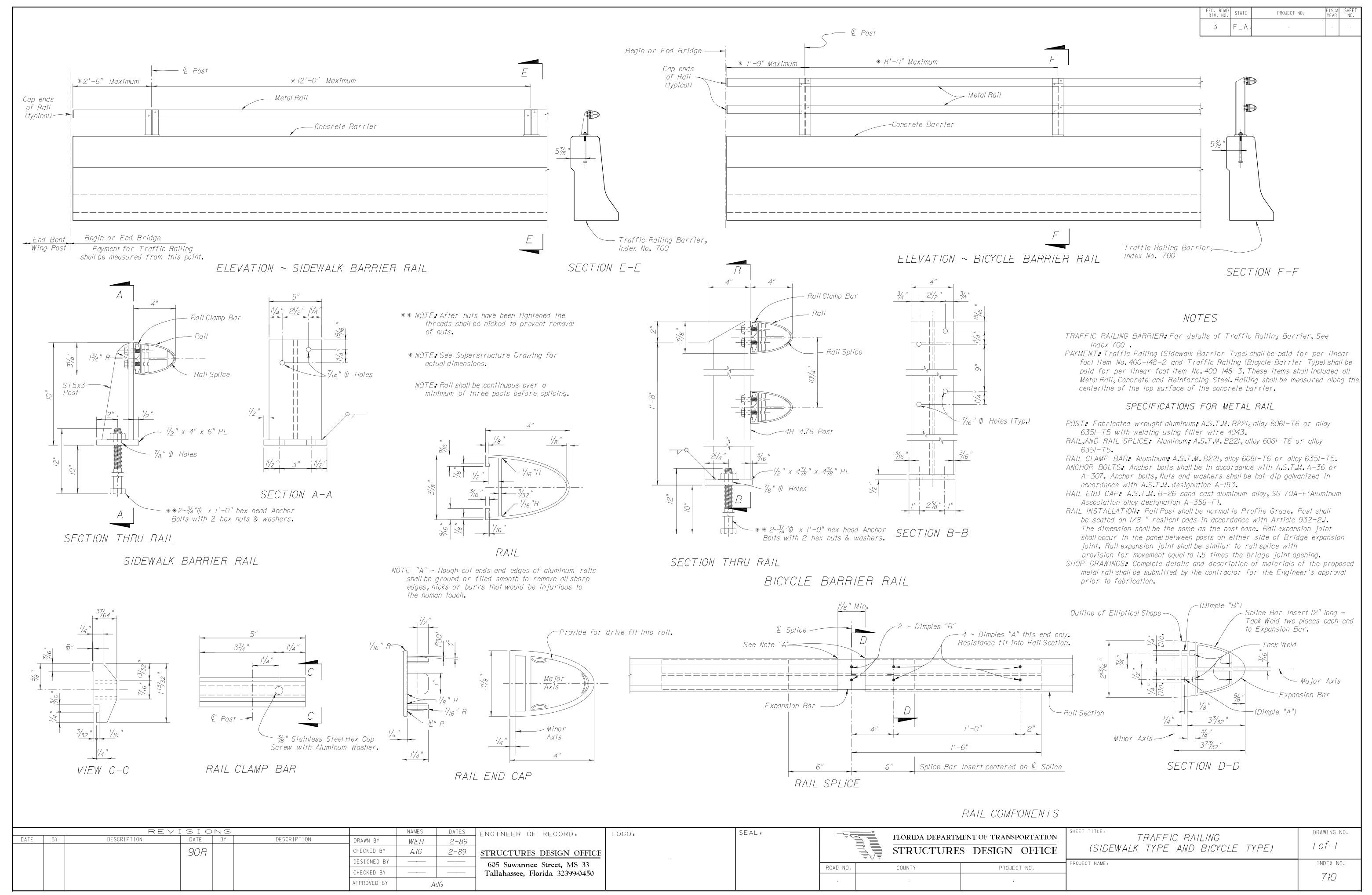
Strands

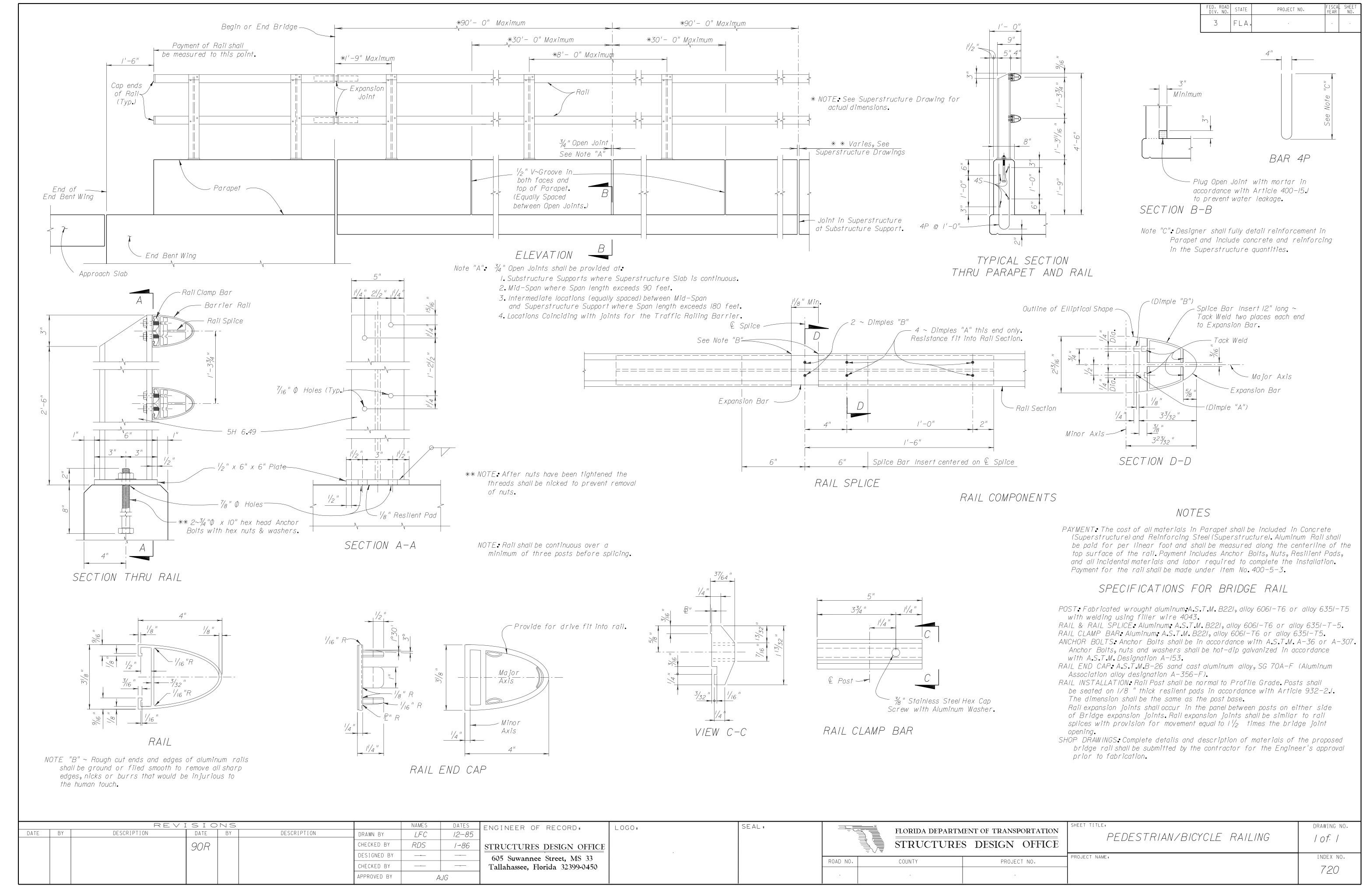


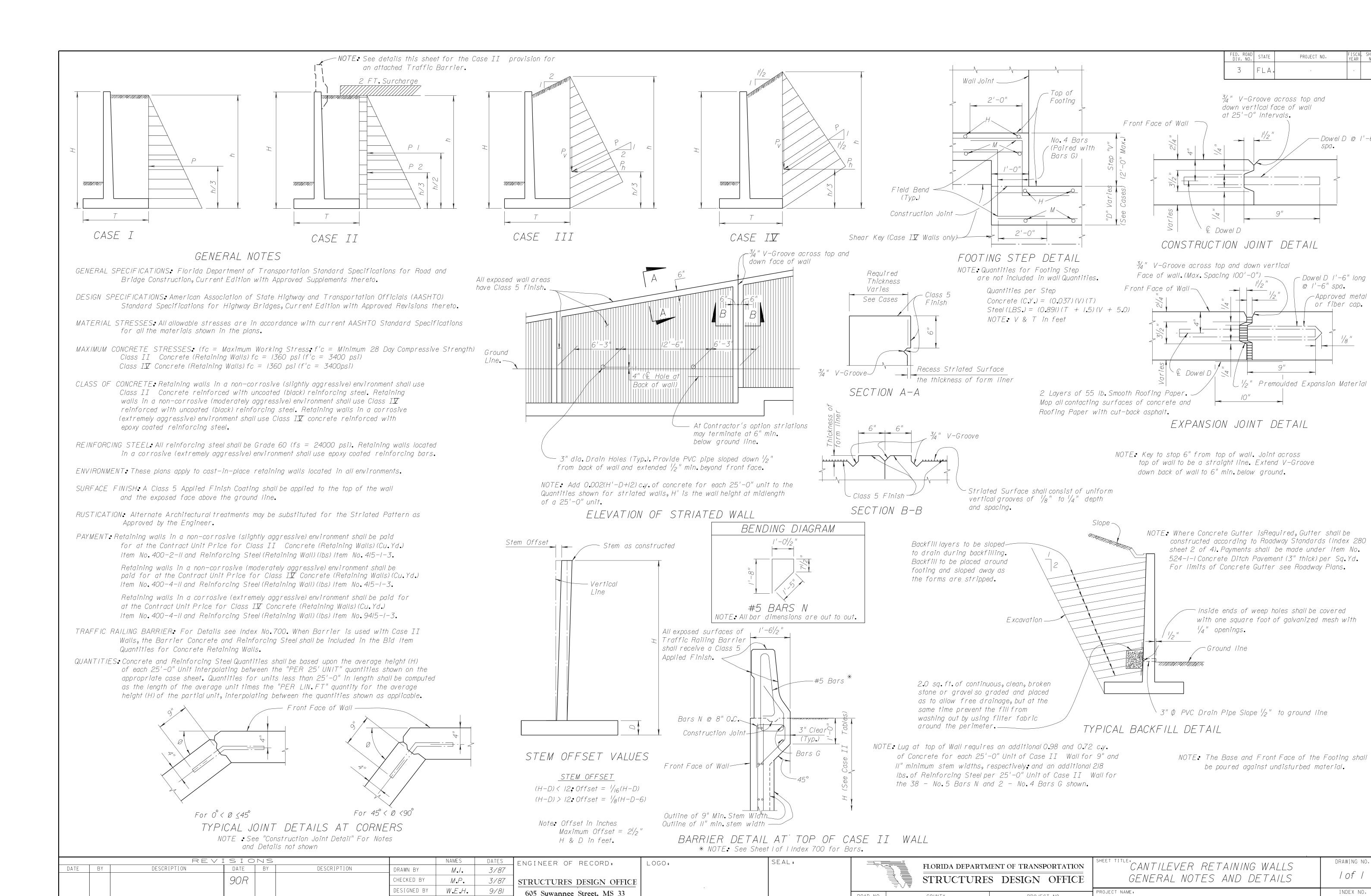












T.D.H.

A.G.M.

9:/81

Tallahassee, Florida 32399-0450

CHECKED BY

APPROVED BY

ROAD NO.

COUNTY

PROJECT NO.

800 \$\$\$\$\$\$\$YTIME\$\$\$\$\$\$\$\$\$\$\$DGNSPECIFICATION\$\$\$\$\$\$\$

DRAWING NO.

1 of 1

INDEX NO.

— Dowel D @ 1'-6"

SPa•

C Dowel D 1'−6" long

Approved metal

or fiber cap.

@ /'−6" spa•

D. ROAD	STATE	PROJECT NO.	FISCA YEAR	SHEET NO:
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 | 5'-5' | " 4 | 30 | 10" 10" - | - 5"2"-
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 | 6'-3' | " 4 | 38 | 8" / / - | - 5"2"-
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 | | 4 | 17 | 4'-6"6' | ' - 8" /2 |
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 | 7'-2' | " 4 | 38 | 8" /2'- | - 5"2"-
 | - 9" /5" | - 2" | | | | |
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 | | 4 | 17 | 5'-2"7' | ' - 4'' / 3 |
| 1 | 6 9 | / / – | 6" 4 | 17 12' | ' - 6'' 4 | 30 24 | ' - 6'' | 4 60 | 5"

 | 8'-2' | " 4 | 50 | 6" 3 ' - | - 5" 3' -
 | - /"/6" | - 6" | | | | |
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 | 9'- /' | " 5 | 19 1 '- | - 4" 3'- | 8"3"-
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 | | 4 | 17 | 6'-7"8' | ' - 9" / 5 |
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 | 10'-2 | 2" 5 | 17 1 '- | 6" 2'- | 10"3"-
 | 8" 6 ' - | 6" | 5 / | 6 1'- 6 | 5" 5"- | - 2" 3 ' | - 8" 8 ' - 10"
 | · | 5 /6 / | ' - 6" / 4 | 4'-9' | " 3 ' - 8"
 | 18'-5' | 4 | 17 | 7'-4"9' | ' - 6" /6 |
| " 5 /9 /5' - 4" | 6 11 | / / - | 6" 4 | 17 15' | ' - 4'' 4 | 40 24 | ' - 6'' | 6 43 | 7"

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 | 12'-3 | 3'' 6 | /7 / / - | 6" 4'- | 4"4"-
 | 5" 8'- | 9" | 6 / | 6 1'- 6 | 5" 5"- | -//"4" | - 5" /0 ' - 4"
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 | 14'-6 | 5" 7 | 17 1 '- | 6" 3'- | 5"5"-
 | 2" 8 ' - | 7" | 6 / | 6 1'- 6 | 6'- | 4"5" | - 2" / / ' - 6"
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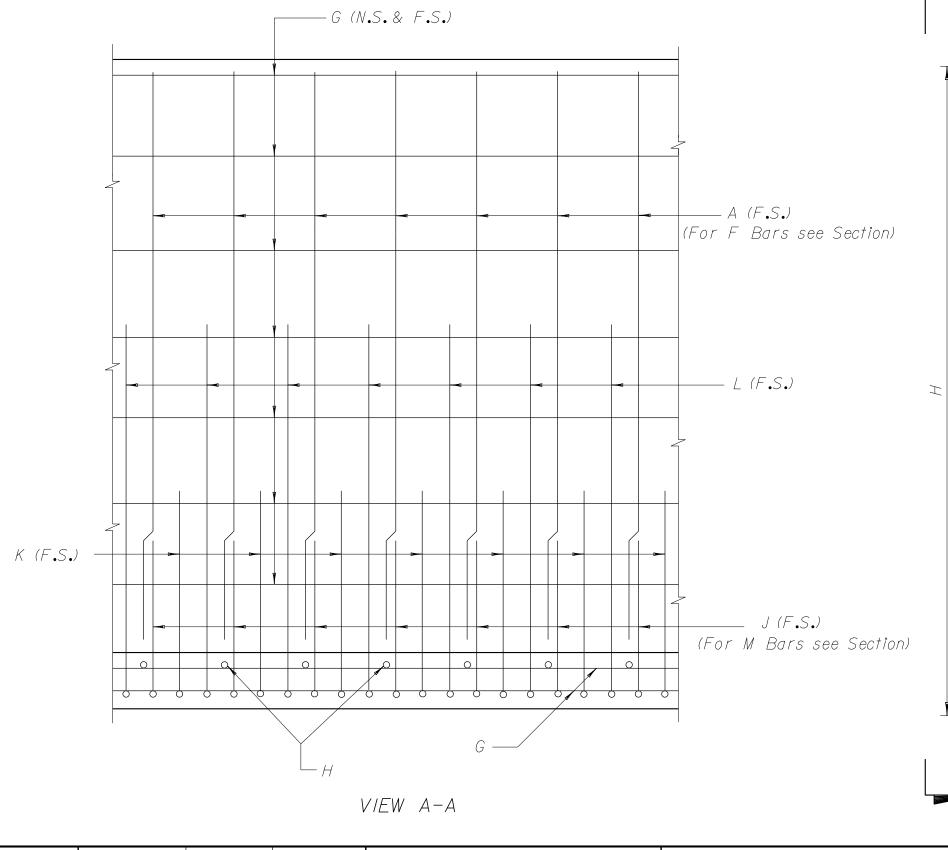
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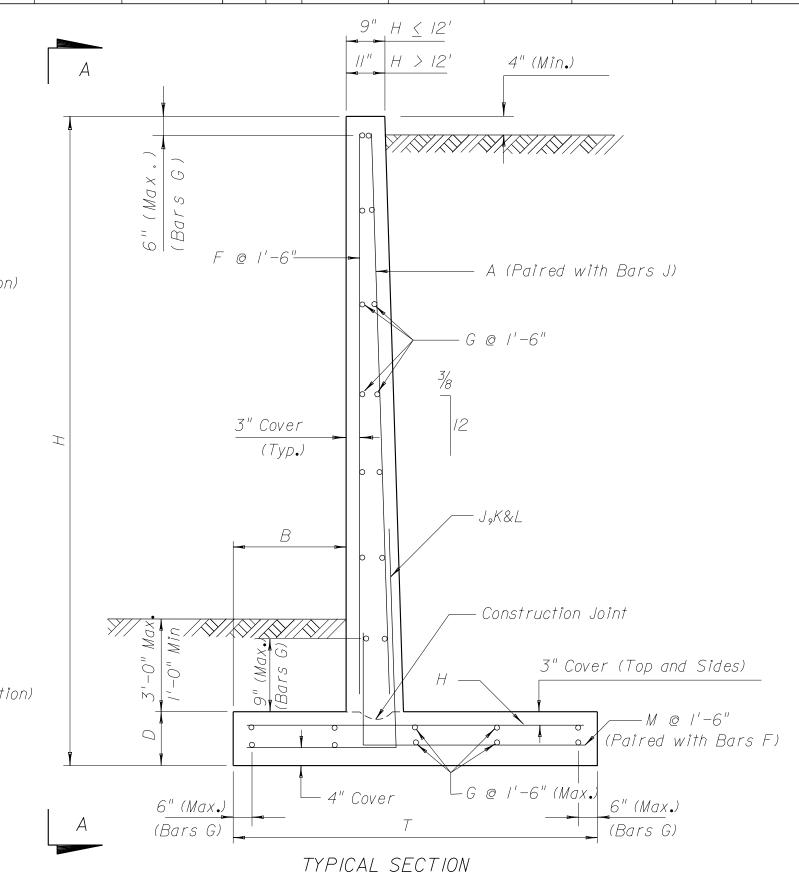
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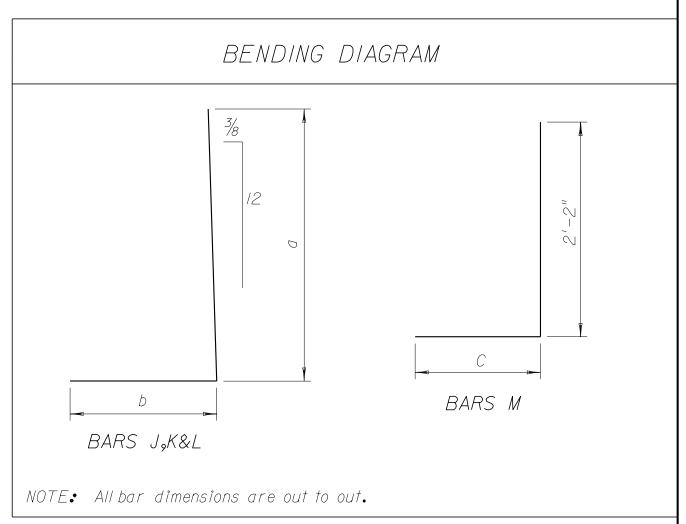
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| | SIZE NO. LENGTH : -595 595 519 13' - 6" 517 14' - 6" 519 15' - 4" 517 16' - 4" 519 17' - 4" | SIZE NO. LENGTH SIZE NO -595 -506 4 6 5 6 6 5 6 6 6 7 6 7 6 8 6 9 5 19 13' - 6" 6 10 ' 5 17 14' - 6" 6 10 ' 5 19 15' - 4" 6 12 ' 5 19 17' - 4" 6 12 ' 5 19 17' - 4" 6 12 | SIZE NO. LENGTH SIZE NO. LENG -595 -506 4 1'- 6 5 1'- 6 5 1'- 6 6 1'- 6 7 1'- 6 7 1'- 6 9 1'- 6 9 1'- 5 19 13'-6" 6 10 1'- 5 19 15'-4" 6 10 1'- 5 19 15'-4" 6 11 1'- 5 17 16'-4" 6 12 1'- 5 19 17'-4" 6 12 1'- | SIZE NO. LENGTH SIZE NO. LENGTH SIZE 595 -506 4 1'-6"-597 6 5 1'-6" 4 6 5 1'-6" 4 6 6 1'-6" 4 6 7 1'-6" 4 6 7 1'-6" 4 6 9 1'-6" 4 6 9 1'-6" 4 6 9 1'-6" 4 6 9 1'-6" 4 7 14'-6" 6 10 1'-6" 4 8 1'-6" 4 10 1'-6" 4 9 1'-6" 4 10 1'-6" 4 1 5 19 15'-4" 6 10 1'-6" 4 1 5 19 15'-4" 6 11 1'-6" 4 1 5 19 17'-4" 6 12 1'-6" 4 1 5 19 17'-4" 6 12 1'-6" 4 | SIZE NO. LENGTH SIZE NO. LENGTH SIZE NO. LENGTH SIZE NO. LE -595 -506 4 1' - 6" 597 17 4 6 5 1' - 6" 4 17 5 6 6 5 1' - 6" 4 17 6 7 1' - 6" 4 17 8 8 6 7 1' - 6" 4 17 10 9 1' - 6" 4 17 11 9 1' - 6" 4 17 13 1 5 19 13' - 6" 6 10 1' - 6" 4 17 13 1 5 19 15' - 4" 6 11 1' - 6" 4 17 15 1 5 19 17' - 4" 6 12 1' - 6" 4 17 16 1 5 19 17' - 4" 6 12 1' - 6" 4 17 17 | SIZE NO. LENGTH LENGTH SIZE NO. | SIZE NO. LENGTH SI | SIZE NO. LENGTH SIZE | SIZE NO. LENGTH LENGTH SIZE NO. LENGTH <th< td=""><td>SIZE NO. LENGTH SIZE NO. SPACING -595</td><td> SIZE NO. LENGTH SIZE NO. LENGTH SIZE NO. LENGTH SIZE NO. LENGTH SIZE NO. SPACING LENGTH SIZE NO. SPA</td><td> SIZE NO. LENGTH SIZE NO. LENGTH SIZE NO. LENGTH SIZE NO. LENGTH SIZE NO. SPACING LENGTH SIZE Si</td><td>BARS A BARS B* BARS F BARS G BARS H SIZE MO. LENGTH SIZE MO. LENGTH SIZE MO. LENGTH SIZE MO. SPACIMG LENGTH SIZE MO. SPACIMG</td><td>DARS A BARS D* BARS F BARS G BARS H BARS H BARS G SIZE NO. LENGTH SIZE NO. SPACING LENGTH SIZE NO. SPACING S</td><td>BARS A BARS D* BARS F BARS G BARS H BARS J SIZE NO. LENGTH SIZE NO. LENGTH SIZE NO. LENGTH SIZE NO. SPACING LENGTH SIZE NO. SPACING O F95</td><td>BARS A BARS D* BARS F BARS G BARS H G G G G G G G G G G G G G G G G G G</td><td>BARS A BARS D* BARS F BARS G BARS H BARS J BARS J BARS G BARS H BARS J B</td><td>BARS A RARS D* RARS F BARS S BARS H BARS J SIZE NO. 1 FNOTH SIZE NO. 1 FN</td><td>BARS A BARS O* BARS F BARS S BARS F BARS F BARS S BARS F B</td><td>BARS A BARS D* BARS F BARS G BARS B BARS G BARS H SIZE MO. 1FMGTH SIZE MO. 1FM</td><td>BARS A RARS D* RARS G* RARS H* BARS J* BARS J* BARS K* SIZE MG. LENSTH SIZE MG. LENSTH SIZE MG. LENGTH SIZE MG. LENGTH SIZE MG. SPACING FWGH SIZE MG. SPACING a b FWSTH SIZE MG. SPACING a 1.</td><td>RAHS A HAMS 0 HAMS F HAMS F HAMS S RAHS H HAMS 3 HAMS H HAMS S HAMS H HAMS 0 HAMS S HAMS H HAMS 0 HAMS S HAMS H HAMS HAMS</td><td>HAMS A HAMS D' HAMS F RAMS G HAMS H HAMS J HAMS D' HAMS F RAMS G HAMS H HAMS J HAMS J HAMS S HAMS G HAMS H HAMS D' HAMS H SIZE MD. SMACKE SIZE MD. SMACKE S HAMS G HAMS H HAMS J HAMS SIZE MD. SMACKE S HAMS G HAMS H HAMS J HAMS SIZE MD. SMACKE S HAMS G HAMS H HAMS J HAMS SIZE MD. SMACKE S HAMS G HAMS H HAMS J HAMS SIZE MD. SMACKE S HAMS G HAMS H HAMS J HAMS SIZE MD. SMACKE S HAMS G HAMS H HAMS J HAMS SIZE MD. SMACKE S HAMS H HAMS J HAMS SIZE MD. SMACKE S HAMS H HAMS J HAMS SIZE MD. SMACKE S HAMS H HAMS J HAMS H HAMS</td><td>BANS A BARS D' BARS F BARS G BARS B BARS S BARS B BARS B BARS S BARS B BARS S BARS B BARS B BARS S BARS B BARS B BARS S BARS B B</td><td>EARS A BARS C* BARS F BARS G BARS H BARS G B</td><td>DATE A DATE OF DATE OF</td><td>BATS A DATS O' DATS F DATS S DATS DAT</td><td> DATE A SHEET S</td><td> Martin M</td><td> BePS A BePS O* SARS F SARS F </td><td> Sept. A</td></th<> | SIZE NO. LENGTH SIZE NO. SPACING -595 | SIZE NO. LENGTH SIZE NO. LENGTH SIZE NO. LENGTH SIZE NO. LENGTH SIZE NO. SPACING LENGTH SIZE NO. SPA | SIZE NO. LENGTH SIZE NO. LENGTH SIZE NO. LENGTH SIZE NO. LENGTH SIZE NO. SPACING LENGTH SIZE Si | BARS A BARS B* BARS F BARS G BARS H SIZE MO. LENGTH SIZE MO. LENGTH SIZE MO. LENGTH SIZE MO. SPACIMG | DARS A BARS D* BARS F BARS G BARS H BARS H BARS G SIZE NO. LENGTH SIZE NO. SPACING LENGTH SIZE NO. SPACING S | BARS A BARS D* BARS F BARS G BARS H BARS J SIZE NO. LENGTH SIZE NO. LENGTH SIZE NO. LENGTH SIZE NO. SPACING LENGTH SIZE NO. SPACING O F95 | BARS A BARS D* BARS F BARS G BARS H G G G G G G G G G G G G G G G G G G | BARS A BARS D* BARS F BARS G BARS H BARS J BARS J BARS G BARS H BARS J B | BARS A RARS D* RARS F BARS S BARS H BARS J SIZE NO. 1 FNOTH SIZE NO. 1 FN | BARS A BARS O* BARS F BARS S BARS F BARS F BARS S BARS F B | BARS A BARS D* BARS F BARS G BARS B BARS G BARS H SIZE MO. 1FMGTH SIZE MO. 1FM | BARS A RARS D* RARS G* RARS H* BARS J* BARS J* BARS K* SIZE MG. LENSTH SIZE MG. LENSTH SIZE MG. LENGTH SIZE MG. LENGTH SIZE MG. SPACING FWGH SIZE MG. SPACING a b FWSTH SIZE MG. SPACING a 1. | RAHS A HAMS 0 HAMS F HAMS F HAMS S RAHS H HAMS 3 HAMS H HAMS S HAMS H HAMS 0 HAMS S HAMS H HAMS 0 HAMS S HAMS H HAMS HAMS | HAMS A HAMS D' HAMS F RAMS G HAMS H HAMS J HAMS D' HAMS F RAMS G HAMS H HAMS J HAMS J HAMS S HAMS G HAMS H HAMS D' HAMS H SIZE MD. SMACKE SIZE MD. SMACKE S HAMS G HAMS H HAMS J HAMS SIZE MD. SMACKE S HAMS G HAMS H HAMS J HAMS SIZE MD. SMACKE S HAMS G HAMS H HAMS J HAMS SIZE MD. SMACKE S HAMS G HAMS H HAMS J HAMS SIZE MD. SMACKE S HAMS G HAMS H HAMS J HAMS SIZE MD. SMACKE S HAMS G HAMS H HAMS J HAMS SIZE MD. SMACKE S HAMS H HAMS J HAMS SIZE MD. SMACKE S HAMS H HAMS J HAMS SIZE MD. SMACKE S HAMS H HAMS J HAMS H HAMS | BANS A BARS D' BARS F BARS G BARS B BARS S BARS B BARS B BARS S BARS B BARS S BARS B BARS B BARS S BARS B BARS B BARS S BARS B B | EARS A BARS C* BARS F BARS G BARS H BARS G B | DATE A DATE OF | BATS A DATS O' DATS F DATS S DATS DAT | DATE A SHEET S | Martin M | BePS A BePS O* SARS F SARS F | Sept. A |

		QUANTI	TIES	
	CONCRETE/ 25' UNIT	STEEL / 25' UNIT	CONCRETE PER LIN.FT.	STEEL PER LIN.FT.
H	C.Y.	LBS.	C.Y.	LBS.
-664	6.52	478	0.26	19
7	7.73	549	0.3/	21
8	9.04	624	0.36	24
9	10.38	723	0.42	28
10	11.89	832	0.48	33
/ /	/3.50	995	0.54	39
12	15.64	1150	0.63	46
13	19.37	1316	0.77	52
14	21.50	1628	0.86	65
15	23.59	1975	0.94	79
16	25 .86	2402	1.03	96
17	29.94	2670	1.20	106
18	32.16	3/69	1.29	126
19	34.86	3721	1.39	148
20	37 .32	3966	1.49	158





To accommodate the Variable Height of a wall Unit, vertical Bars may be field cut to fit and the number of horizontal Bars G required by the highest wall dimension within a 25' Unit shall be equally spaced at each end of the Unit.



NOTE: Bars M are paired with Bars F and Bars A are paired with Bars J. Bars F and M are No.4 Bars. Bars J are as shown.

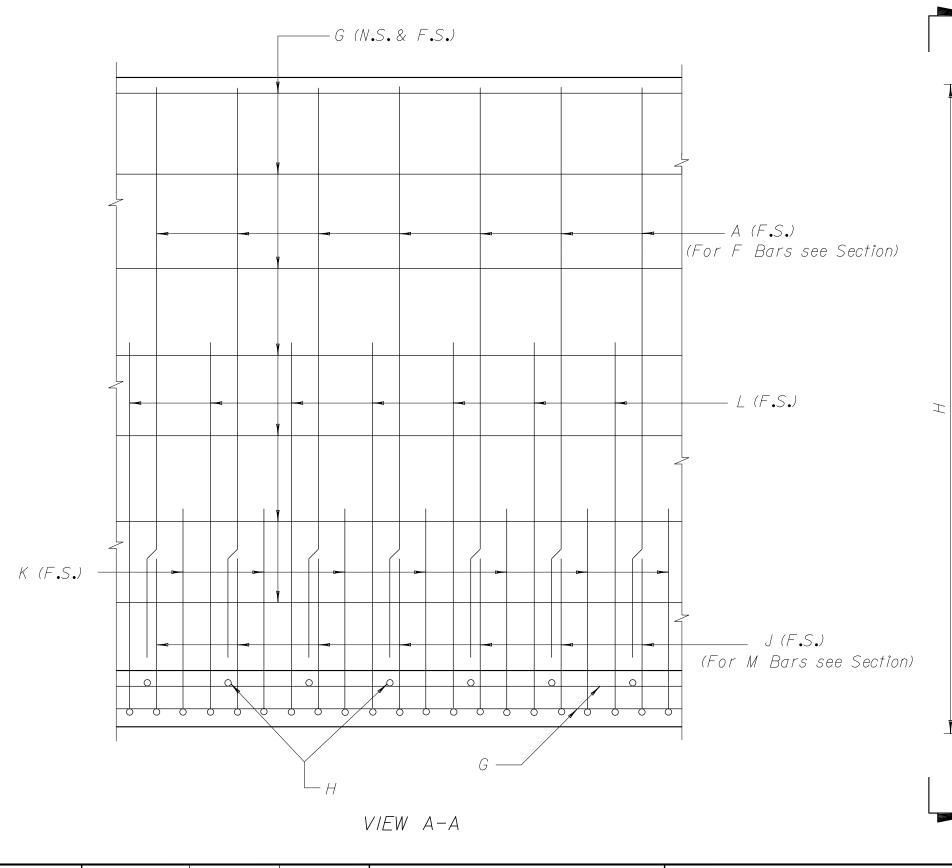
* NOTE: For placement details for Bars D see Standard Index No. 800.

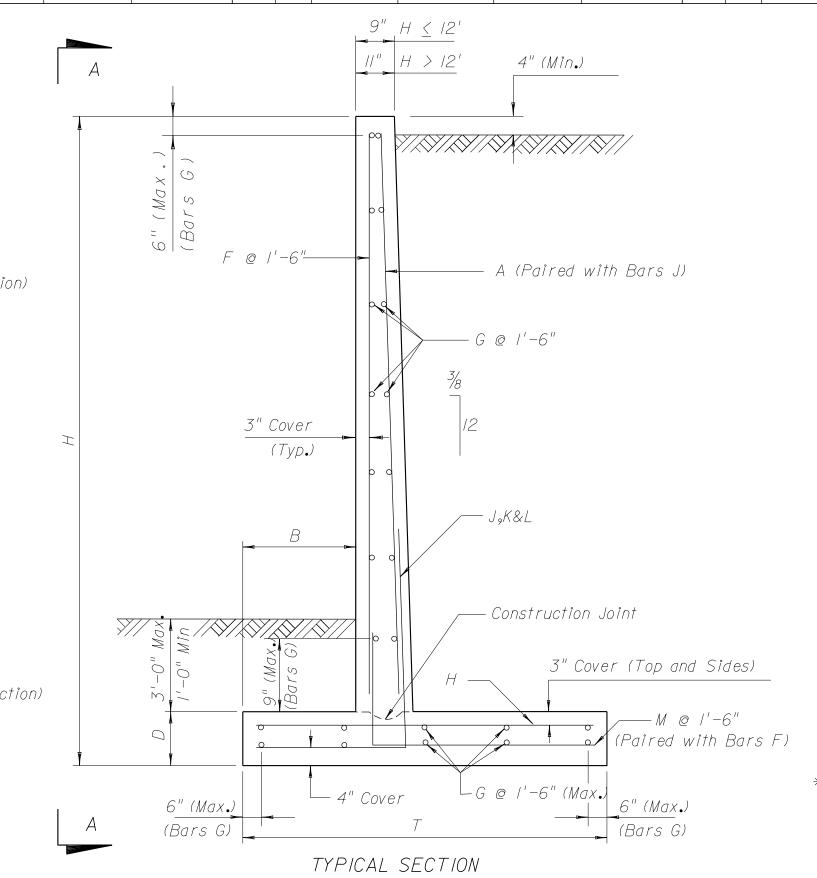
DATE BY DESCRIPTION DATE BY DESCRIPTION DRAWN BY CHECKED BY	STRECTORES DESIGN CITIES	FLORIDA DEPARTMENT OF TRANSPORTATION STRUCTURES DESIGN OFFICE SHEET TITLE: CASE 1 (2.0 KIPS/SQ. FT. MAX. BEARING PRESSURE) 6 FT. TO 20 FT. HEIGHT	DRAWING NO.
DESIGNED BY CHECKED BY APPROVED BY	C.W. 6/85 R.N. 6/85 A.G.M. 605 Suwannee Street, MS 33 Tallahassee, Florida 32399-0450	ROAD NO. COUNTY PROJECT NO. PROJECT NAME.	INDEX NO.

ED. ROAD DIV. NO.	STATE	PROJECT NO.	FISCA YEAR	_ SHEET NO∙
3	FLA.			

								RE	TAINING WALL DATA									
WALL DIMENSIONS									REINFORCING S	TEEL SCHED	ULE							
H B D T	BARS A	BARS	5 D*	BARS F	BARS G		BARS H		BARS J		BARS K			BARS L		BAR	S M	
	SIZE NO. LENGTH	SIZE NO. L	LENGTH SIZE	E NO. LENGT	H SIZE NO. LEN	GTH SIZE NO.	SPACING LENGTH	H SIZE NO. SPAC	CING a b	LENGTH SIZE	E NO. SPACING a b	LENGTH	SIZE NO. SPACIN	G a b	LENGTH SIZE	10. C	LENGTH	
80 8" 11" 3 - 1" -	802	803 4	1'-6"804	1 17 4'-	7"-805 14 24 '	- 6"-806 18	1'-5" 2'-7"	-807 25 1'-	0" 5' - 5" ' - '' 6	- 6" - 808			809		-840	77 / / -	-//" 4'- /" 6	6
7 10" 11" 3" - 6"		6 5	1'-6" 4	17 5'-	7" 4 16 24 '	- 6" 4 /8	1'-5" 3'-0"	4 25 1'-	0" 6' - 5" 1 ' - 3" 7 '	- 8"					4	17 2'-	2" 4' - 4" 7	7
8 1 ' - 0'' 1 1 4 - 0''		6 5	1'-6" 4	17 6 ' -	7" 4 18 24 '	- 6" 4 /8	1'-5" 3'-6"	4 25 1'-	0" 7' - 5" 1 ' - 6" 8 '	- / / "					4	17 2'-	- 6" 4' - 8" 8	8
9 1'- 2" 11" 4'- 6"		6 6	1'-6"4	/7 7 '-	7" 4 20 24'	- 6" 4 19		4 28	11" 8' - 5" 1 ' - 8" 10 '	- / "					4	17 2'-	-/0" 5'- 0" 9	9
10 1'- 3" 11" 4'-11"		6 7	1'-6"4	17 8'-	7" 4 22 24'	- 6" 4 28	11" 4'- 5"		11" 9' - 5" 1 ' - 9" 11 '						4	'7 3'-	- 2" 5' - 4" /	þ
		6 7	1'-6"4	17 9'-	7" 4 24 24'	- 6" 4 43	7" 5'-0"	4 30	10" 0 ' - 5" ' - ' 2	- 4"					4	17 3'-	8" 5'-10" 1	/
12 1'- 6" 1'- 0" 5'-11"		6 8	1'-6" 4	/7 /0'-	6" 4 26 24'	- 6" 4 38	8" 5'- 5"	4 38	8" 1 ' - 5" 2 ' - 1" 3	- 6"					4	17 3'-	6'-/''	2
13 1 ' - 7" 1 ' - 0" 6 ' - 3"		6 9	1'-6" 4	/7 // -	6" 4 28 24'	- 6" 4 50	6" 5'- 9"	4 38	8" 2' - 5" 2' - 4" 4	- 9"					4	'7 4'-	- 2" 6' - 4" /	3
14 1 ' - 9" 1 ' - 0" 6 ' - 10"		6 9	/ ' - 6 '' 4	17 12'-	6" 4 30 24'	- 6" 4 60	5" 6'- 4"	4 50	6" 3' - 5" 2' - 7" 6	- 0"					4	'7 4'-	- 7" 6' - 9" /	4
	5 19 13' - 6'	6 10	/ ' - 6 '' 4		6" 4 32 24'	- 6" 5 50	6" 6'-10"	5 19 1 ' -	4" 3' - 8" 2 ' - 8" 6 '	- 4" 5		' / 3 ' - 5 ''			4	7 5'-	0" 7'- 2"/	5
16 2' - 1" 1' - 0" 8' - 2"	5 17 14' - 6'	6 10	1'-6" 4		6" 4 32 24'	- 6" 6 43	7" 7'- 8"	5 17 1 ' -	6" 2'-10"2'-11" 5'	- 9" 5		8 ' - / ''	5 16 1 ' - 6	" 4' - 9" 2' - "	7'-8" 4	7 5'-	7"7'-9"/	6
17 2' - 3" 1' - 2" 9' - 0"	5 /9 /5' - 4'	6 //	1'-6" 4	17 15'-	4" 4 34 24'	- 6" 6 43	7" 8'-6"	5 19 1 ' -	4" 3' - 0" 3 ' - 2" 6 '	- 2" 5		8 ' - / 0 ''	5 18 1 ' - 4	" 3' - " 3' - 2"	7'- /" 4	7 6'-	- 3" 8' - 5" /	7
18 2' - 7" ' - 2" 9' - 8"	5 17 16' - 4'	6 12	1'-6" 4	17 16'-	4" 4 38 24'	- 6" 6 50	6" 9'- 2"	6 17 1 ' -	6" 4' - 4" 3 ' - 6" 7 '	-/0" 6		9 ' - 5"	6 16 1' - 6	" 4 ' - 1 " 3 ' - 6"	8'-5" 4	7 6'-	- 7" 8'- 9" /	8
19 2'- 9" '- 2" 0'- 7"	5 /9 /7' - 4'	6 12	1'-6" 4		4" 4 40 24'	- 6" 7 43	7" /0'- /"	6 19 1 ' -	4" 3' - 5" 3' - 9" 7'	- 2" 6		/0 '- /''	6 18 1 ' - 4	" 5' - 4" 3' - 9"	9'- /" 4 ,	7'-	- 4" 9' - 6" /	9
20 3' - 1" ' - 2" ' - 5"	6 17 18' - 4'	6 13	1'-6"4	17 18'-	4" 4 42 24'	- 6" 7 50	6" 10'-11"	7 17 1 ' -	6" 3' - 5" 4' - 1" 7'	- 6" 7	16 1'-6" 6'-4"4'-1'	10'-5"	7 16 1 ' - 6	" 6 ' - 4 " 4 ' - 1 " 2	0'-5" 4	7 7 -	-10" 10' - 0" 2	20
21 3'- 4" 1'- 5" 12'- 4"	6 17 19'- 1'	6 14	1'-6"4	17 19'-	<i>I'' 4 46 24'</i>	- 6" 7 43	7" // -/0"	7 17 1 ' -	6" 5' - 2" 4' - 4" 9'	- 6" 7	16 1'-6" 7'-2"4'-4"	// '- 6''	7 16 1' - 6	" - 2" 4 ' - 4"	5'-6" 4	'7 8'-	- 6" 10' - 8" 2	2/
22 3' - 7" ' - 5" 3' - 9"	6	6 14	1'-6"4	17 20'-	<i>I'' 4 48 24'</i>	- 6" 7 50	6" 3' - 3"	7 /9 / '-	4" 4' - 7" 4' - 8" 9'	- 3" 7		12'-10"	7 18 1 ' - 4	" 2' - 2" 4' - 8"	6'-10" 4	'7 9'-	- 8" - 0" 2	22
23 3'-10" '- 5" 4'- 2"	6 17 21'- 1'	6 15	1'-6"4	17 21'-	<i>I'' 4 50 24'</i>	- 6" 8 43	7" /3' - 8"	8 17 1'-	6" 5'-10"4 -11"10'	- 9" 8	16 1'- 6" 8'-10"4'-11'	13'-9"	8 16 1'-6	" 3 ' - 2" 4 ' - "	8'- /'' 4 ,	'7 9'-	-10" 2' - 0" 2	23
24 4'- 2" '- 5" 5'- 0"	6 19 22' - 1'	6 16	1'-6"4	17 22'-	<i>I'' 4 54 24'</i>	- 6" 8 50	6" 4' - 6"	8 19 1'-	4" 5'-10" 5'- 3" 11'	- /'' 8		15'- 1"	8 18 1' - 4	" 4' - 2" 5' - 3"	9'-5" 4	17 10'-	- 4" 2' - 6" 2	24
25 4' - 5" ' - 5" 6' - 4"	6 17 23' - 1'	6 16	1'-6"4	17 23'-	<i>I'' 4 56 24'</i>	- 6" 9 50	6" 5'-10"	9 17 1'-	6" 6'-11"5'- 7"12'	- 6" 9	16 1'- 6" 10'- 6" 5'- 7	' /6 ' - / ''	9 16 1' - 6	" 7' - 6"5' - 7"2	3'-/" 4 ,	7 // -	- 5" 3' - 7" 2	25
26 4'-//"/'- 8"/7'- /"	6 19 23'-10'	6 17	1'-6"4	17 23'-1	0" 4 58 24'	- 6" 9 43	7" /6'-7"	9 /9 / '-	4" 7' - 5" 6 ' - 1" 13 '	- 6" 9	18 ' - 4" ' - 4" 6 ' -	' /7 ' - 5''	9 18 1' - 4	" 8 ' - 3" 6 ' - 1" 2	4'-4" 4 ,	77 ///-	- 8" 3' - 10" 2	26
27 5'- 3" '- 8" 8'- 0"	6 17 24'-10'	6 18	1'-6"4	17 24'-1	0" 4 62 24'	- 6" 9 43	7" 7' - 6"	10 17 1'-	6" 7'-11"6'- 6" 14'	- 5" /0	16 1'- 6" 11'- 9" 6'- 6	' /8 ' - 3"	10 16 1'-6	" 8 ' - 9 " 6 ' - 6 " 2	5'-3" 4	17 12'-	- 3" 4' - 5" 2	27
28 5' - 7" ' - 8" 8' - 9"	7 19 25 ' - 10 '	6 18	1'-6"4	17 25'-1	0" 4 62 24'	- 6" 9 50	6" 8' - 3"	10 19 1'-	4" 8' - 5" 6' - 10" 15'	- 3" /0	18 1'- 4" 2'- 3" 6'-10	' / 9 ' - / ''	10 18 1' - 4	" 9 ' - 9 '' 6 ' - 10 '' 2	6'-7" 4	17 12'-	8" 4 ' - 10" 2	28
29 6'-0" '-8" 9'-6"	8 17 26 ' - 10 '	6 19	1'-6"4	17 26 ' - 1	0" 4 66 24'	- 6" 9 60	5" /9'- 0"	/ / / / / / / -	6" 8'-11"7'- 3" 16'	- 2" //	16 1'- 6" 12'- 9"7'- 3	'20'-0"	11 16 1'- 6	" 20 ' - 9" 7 ' - 3" 2	8'-0" 4	7 /3 -	0" 15' - 2" 2	29
30 6'- 5" '- 8" 20'- 3"	8 19 27 ' -10'	6 20	1'-6"4	17 27'-1	0" 4 68 24'	- 6"/0 43	7" /9'- 9"		4" 9' - 5" 7 ' - 9" 17 '	- 2"	18 1'- 4" 13'- 0"7'- 9	'20'-9"		"21'-9"7'-9"2	9'-6" 4	17 13'-	- 4" 15' - 6" 3	30

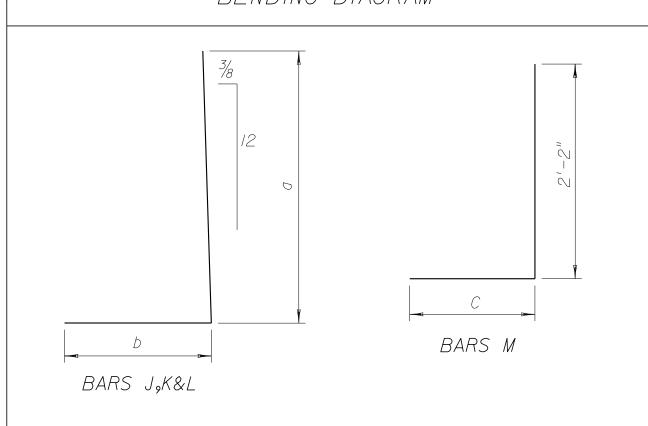
		QUANTI	TIES	
1.1	CONCRETE / 25' UNIT	STEEL / 25' UNIT	CONCRETE PER LIN.FT.	STEEL PER LIN.FT.
H	C.Y.	LBS.	C.Y.	LBS.
1 86/	6.52	476	0.26	19
7	7.73	549	0.31	21
8	9.04	624	0.36	24
9	10.38	723	0.42	28
10	11.67	825	0.47	33
/ /	13.14	974	0.53	38
12	14.87	1112	0.59	44
13	18.06	1247	0.72	49
14	19.81	1518	0.79	60
15	21.51	1782	0.86	7 /
16	23.55	2082	0.94	83
17	26 .79	2312	1.07	92
18	28.83	2780	1.15	/ / /
19	31.17	3209	1.25	128
20	33.45	389 /	1.34	155
21	38.35	3862	1.53	154
22	41.64	4557	1.67	182
23	43.64	5/83	1.75	207
24	46.22	6082	1.85	243
25	49.49	7503	1.98	300
26	55.58	7952	2.22	318
27	58.56	8743	2.34	349
28	61.32	10406	2.45	416
29	64.10	12234	2.56	489
30	66.91	13254	2.68	530





To accommodate the Variable Height of a wall Unit, vertical Bars may be field cut to fit and the number of horizontal Bars G required by the highest wall dimension within a 25' Unit shall be equally spaced at each end of the Unit.

BENDING DIAGRAM



NOTE: All bar dimensions are out to out.

NOTE• Bars M are paired with Bars F and Bars A are paired with Bars J. Bars F and M are No.4 Bars. Bars J are as shown.

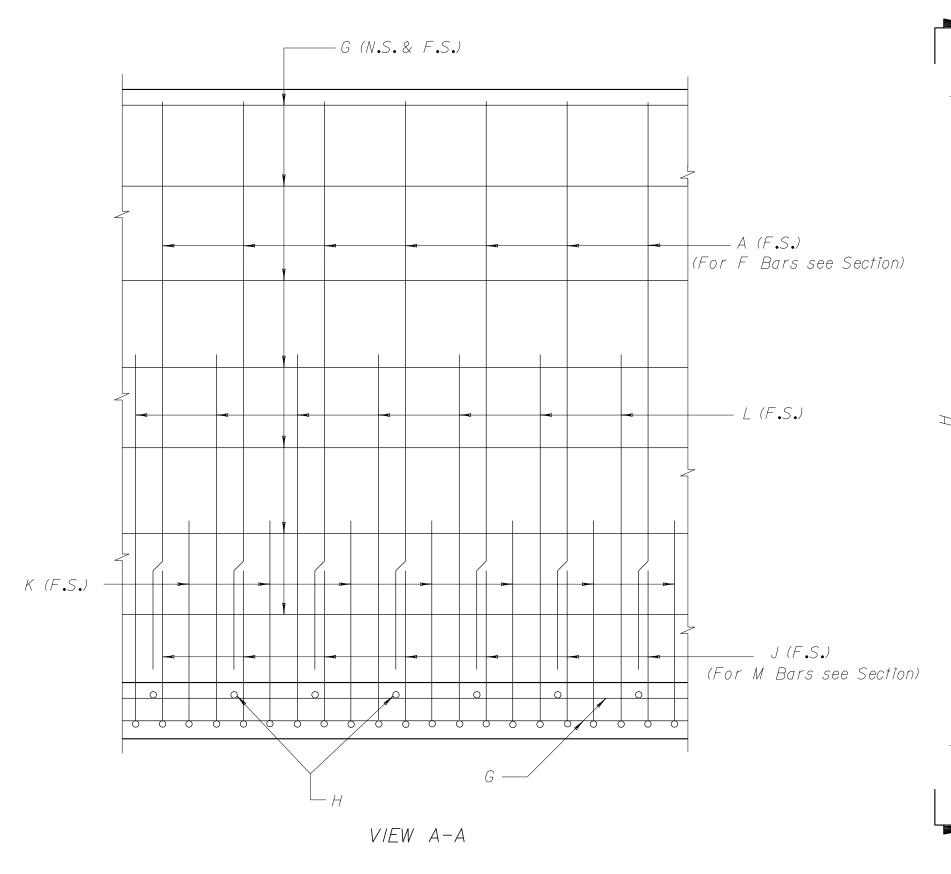
* NOTE•For placement details for Bars D see Standard Index No.800.

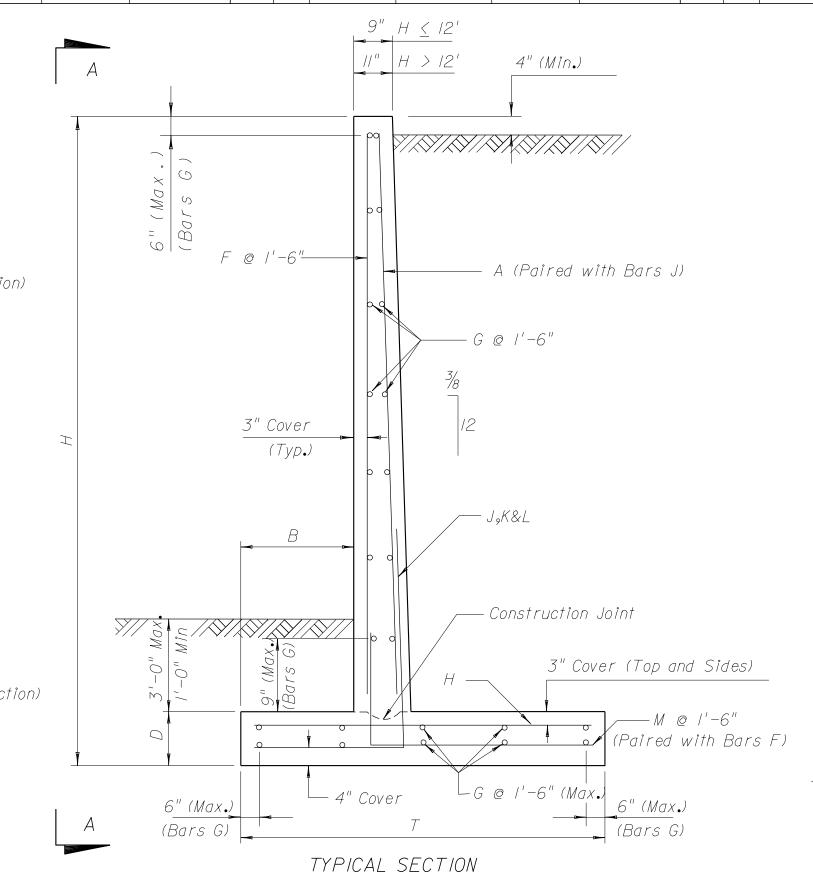
	REV	ISIONS		NAMES DATES	ENGINEER OF RECORD: LOGO:	SEAL 8	=		SHEET TITLE:	DRAWING NO.
DAT	BY DESCRIPTION	DATE BY DESCRIPTION	DRAWN BY CHECKED BY	M.I. 3/87				FLORIDA DEPARTMENT OF TRANSPORTATION STRUCTURES DESIGN OFFICE	CASE 1(3.0 KIPS/SQ.FT.MAX.BEARING PRESSURE) 6 FT.TO 30 FT.HEIGHT	1 of 1
		90R	DESIGNED BY	M.P. 3/87	STRUCTURES DESIGN OFFICE 605 Suwannee Street, MS 33		DOAD NO	STRUCTURES DESIGN OFFICE	PROJECT NAME:	INDEX NO.
			CHECKED BY APPROVED BY	A.G.M.	Tallahassee, Florida 32399-0450			. PROJECT NO.		802

ED. ROAD DIV. NO.	STATE	PROJECT NO.	FISCA YEAR	_ SHEET NO∙
3	FLA.			

						RETAINING WALL DATA				
WALL DIMENSIONS						REINFORCING STEEL S	SCHEDULE			
H B D T	BARS A	BARS D *	BARS F	BARS G	BARS H	BARS J	BARS K	BARS L		BARS M
	SIZE NO. LENGTH	SIZE NO. LENGTH	H SIZE NO. LENGTH	SIZE NO. LENGTH SIZE NO.	SPACING LENGTI	H SIZE NO. SPACING a b LENGTI	H SIZE NO. SPACING a b	LENGTH SIZE NO. SPACING a b	LENGTH SIZE NO.	C LENGTH
26 8" 3 - "	202	203 4 1'-6	5"204 17 4' - 7	"-205 14 24 ' - 6 "-206 18	1'-5" 2'-7"	-207 25 ' - 0" 5' - 5" ' - " 6 ' - 6"	-208	-209	240 17	'- ' 4'- '' 6
7		6 5 1'-6	5" 4 17 5' - 7	. " 4 16 24 ' - 6 " 4 18	1'-5" 3'-0"	4 25 1 ' - 0" 6 ' - 5" ' - 3" 7 - 8"			4 17	2'-2"4'-4"7
8 / ' - 0" / / " 4 ' - 0"		6 5 1'-6	5" 4 17 6 ' - 7	1" 4 18 24 ' - 6 " 4 18	1'-5" 3'-6"	4 25 1' - 0" 7' - 5" - 6" 8 - "			4 17	2'-6" 4'-8" 8
9 1'- 2" 11" 4'- 6"		6 6 1'-6	5" 4 17 7 ' - 7	4 20 24' - 6" 4 /9		4 28			4 17	2'-10" 5'- 0" 9
10 1 ' - 3" 1 1 4 - 1 1"		6 7 1'-6	5" 4 17 8 ' - 7	4 22 24' - 6" 4 28	11" 4'- 5"	4 28 11" 9' - 5" ' - 9" ' - 2"			4 17	3'-2"5'-4"10
		6 7 1'-6	5" 4 17 9' - 7	4 24 24 ' - 6" 4 43	7" 5'- 0"	4 30 10" 0' - 5" ' - 1" 2' - 4"			4 17	3'-8"5'-10"11
12 1 ' - 6" 1 ' - 0" 5 ' - 1 1"		6 8 1'-6	6" 4 17 10' - 6	6" 4 26 24' - 6" 4 38	8" 5' - 5"	4 38 8" / / ' - 5" 2' - /" / 3' - 6"			4 17	3'-//" 6'- /" /2
13 1' - 7" 1' - 0" 6' - 3"		6 9 1'-6	6" 4 17 11' - 6	5" 4 28 24' - 6" 4 50	6" 5'- 9"	4 38 8" 2' - 5" 2' - 4" 4' - 9"			4 17	4'-2"6'-4"13
14 ' - 9" ' - 0" 6 ' - 10"		6 9 1'-6	6" 4 17 12' - 6	6" 4 30 24' - 6" 4 60	5" 6'- 4"	4 50 6" 3' - 5" 2' - 7" 6' - 0"			4 17	4'-7"6'-9"14
15 ' - 10" ' - 0" 7 ' - 4"	5 /9 /3' - 6"	6 10 1'-6	6" 4 17 13' - 6	5" 4 32 24' - 6" 5 50	6" 6'-10"	5 19 1 ' - 4" 3 ' - 8" 2 ' - 8" 6 - 4"	5 18 1' - 4" 10' - 9" 2' - 7"	3'-4"	4 17	5'-0"7'-2"15
16 2'- 0" '- 0" 7'- 8"	5 17 14' - 6''	6 10 1'-6	6" 4 17 14" - 6	6" 4 32 24' - 6" 6 43	7" 7'- 2"	5 17 1' - 6" 2' - 10" 3' - 0" 5' - 10"	5 16 1' - 6" 5' - 2" 2 ' - 10" 8	3'-0" 5 16 1'-6" 14'-9"2'-10" 1	' - 7" 4 17	5'-2"7'-4"16
17 2'- 0" '- 2" 8'- 2"	5 /9 /5' - 4"	6 11 1'-6	5" 4 17 15' - 4	4 36 24' - 6" 6 43	7" 7'- 8"	5 19 1' - 4" 3' - 0" 2 ' - 11" 5 ' - 11"	5 18 1' - 4" 5' - 8" 2 ' - 1 1" 8	3'-7" 5 18 1'-4" 3'-11" 2'-11"	'-10" 4 17	5'-8"7'-/0"/7
18 2'- 3" '- 2" 8'- 9"	5 17 16 ' - 4 '	6 12 1'-6	5" 4 17 16 ' - 4	1'' 4 38 24' - 6" 6 50	6" 8' - 3"	6 17 1' - 6" 4' - 4" 3' - 2" 7' - 6"	6 16 1' - 6" 5' - 11" 3' - 2" 9	9'- 6 16 1'- 6" 4'- 1" 3'- 2"	3'- 1" 4 17	6'-0"8'-2"/8
19 2'- 4" '- 2" 9'- 2"	5 19 17' - 4"	6 12 1'-6	5" 4 17 17 ' - 4	1'' 4 38 24' - 6" 7 43	7" 8'-8"	6 19 1 ' - 4" 3 ' - 5" 3 ' - 4" 6 - 9"	6 18 1' - 4" 6' - 4" 3' - 4" 9	9'-8" 6 18 1'-4" 15'-4" 3'-4"	3'-8" 4 17	6'-4"8'-6"19
20 2'- 6" '- 2" 9'- 8"	6 17 18' - 4''	6 13 1'-6	5" 4 17 18" - 4	4 42 24' - 6" 7 43	7" 9'- 2"	7 17 1' - 6" 3' - 5" 3' - 6" 6' - 1 1"	7 16 1' - 6" 6' - 4" 3' - 6" 9	9'-10" 7 16 1'-6" 16'-4" 3'-6" 1	1-10" 4 17	6'-8"8'-10"20
21 2'-8"1'-5"10'-4"	6 17 19' - 1'	6 14 1'-6	5" 4 17 19" - 1	" 4 44 24' - 6" 7 43	7" 9'-10"	7 17 1' - 6" 5' - 2" 3' - 8" 8' - 10"	7 16 1'- 6" 7'- 2" 3'- 8" 10	0'-10" 7 16 1'- 6" 1 - 2" 3 - 8"	1'-10" 4 17	7'-2"9'-4"21
22 2'-11" 1'- 5" 11'- 0"	6 19 20' - 1'	6 14 1'-6	5" 4 17 20 ' - 1	" 4 44 24' - 6" 7 50	6" 10' - 6'	' 7 /9 / '- 4" 4' - 7" 4' - 0" 8' - 7"	7 18 1 ' - 4" 8 ' - 2" 4 ' - 0" 12			7'-7"9'-9"22
23 3'- '' ' - 5" ' - 10"	6 17 21' - 1'	6 15 1'-6	5" 4 17 21 ' - 1	" 4 48 24' - 6" 8 50	6" // - 4'	' 8 17 1' - 6" 5' - 10" 4' - 2" 10' - 0"	8 16 1'- 6" 8'-10" 4'- 2" 1.	3'-0" 8 16 1'-6" 13'-2"4'-2" 1	' - 4'' 4 17	8'- 3" 0'- 5" 23
24 3' - 5" ' - 5" 2' - 7"	6 19 22' - 1'	6 16 1'- 6	5" 4 17 22 ' - 1	" 4 50 24' - 6" 8 50	6" /2'- /'	' 8 9 1 ' - 4" 5 ' - 10" 4 ' - 6" 10 ' - 4"	8 18 1' - 4" 9' - 10" 4' - 6" 4	4'-4" 8 18 1'-4" 14'-2"4'-6" 1	3'-8" 4 17	8'-8"10'-10"24
25 3' - 7" ' - 5" 3' - 6"	6 17 23' - 1'	6 16 1'-6	5" 4 17 23 ' - 1	" 4 52 24' - 6" 9 50	6" /3'-0'	' 9 17 1' - 6" 6' - 1 4' - 9" 1 ' - 8"	9 16 1'- 6" 10'- 6" 4'- 9" 1	5'-3" 9 16 1'-6" 17'-6"4'-9"2	2'-3" 4 17	9'-5" 1'-7" 25
26 4'- 0" 1'- 8" 4'- 2"	6 19 23'-10'	6 17 1'-6	5" 4 17 23 ' - 10	0'' 4 54 24' - 6" 9 43	7" /3' - 8'	' 9 19 1'- 4" 7'- 5" 5'- 2" 12'- 7"	9 18 1' - 4" 1 - 4" 5 - 2"	6'-6" 9 18 1'-4" 18'-3"5'-2"2	3'-5" 4 17	9'-8" -10"26
27 4'- 3" '- 8" 5'- 0"	6 17 24'-10'	6 18 1'-6	5" 4 17 24 ' - 10	0" 4 58 24' - 6" 9 50	6" 4' - 6'	' 10 17 1'-6" 7'-11"5'-6"13'-5"	10 16 1'- 6" 11'- 9" 5'- 6" 1	7'-3" 10 16 1'-6" 18'-9"5'-6"2	1'-3" 4 17	10'-3" 12'-5" 27
28 4'-7" '-8" 5'-9"	7 19 25'-10'	' 6 18 1' - 6	5" 4 17 25 ' - 10	0'' 4 58 24 ' - 6 '' 9 50	6" 15' - 3'	' 10 19 1'- 4" 8'- 5" 5'-10" 14'- 3"	10 18 1'- 4" 12'- 3" 5'-10" 1	8'-1" 10 18 1'-4" 19'-9"5'-10"2	' - 7'' 4 <i>1</i> 7	10'-8" 12'-10"28
29 4'-11" 1'- 8" 6'- 5"	8 17 26'-10'	' 6 19 1' - 6	5" 4 17 26 ' - 10	0'' 4 62 24' - 6" 9 60	5" /5'-//	'	11 16 1'- 6" 12'- 9" 6'- 2" 1			11'-0"13'-2"29
30 5'- 4" '- 8" 7'- 2"	8 19 27 '-10"			0" 4 64 24' - 6" 10 50		'				11'-4" 3'-6"30

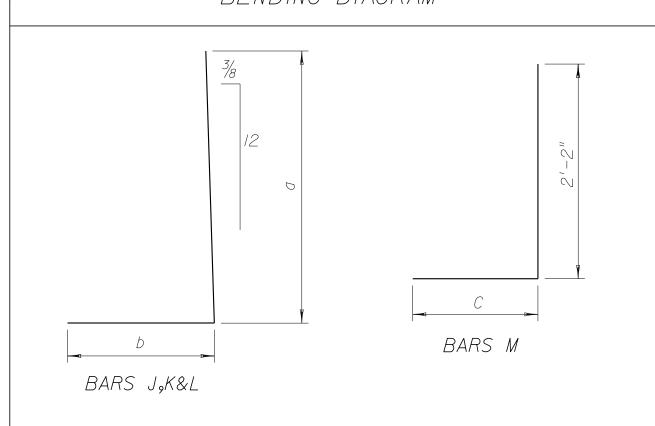
		QUANTI	TIES	
1.1	CONCRETE / 25' UNIT	STEEL / 25' UNIT	CONCRETE PER LIN.FT.	STEEL PER LIN.FT.
Н	C.Y.	LBS.	C.Y.	LBS.
1 261	6.52	476	0.26	19
7	7.73	549	0.31	21
8	9.04	624	0.36	24
9	10.38	723	0.42	28
10	11.67	825	0.47	33
/ /	13.14	974	0.53	38
12	14.87	1112	0.59	44
13	18.06	1247	0.72	49
14	19.81	1518	0.79	60
15	21.51	1780	0.86	7 /
16	23.09	2044	0.92	8 /
17	25 .89	2270	1.04	90
18	27 .84	2680	/ . / /	107
19	29.64	3006	1.19	120
20	3/.56	3509	1.26	140
21	35.72	3572	1.43	142
22	38.03	4112	1.52	164
23	40.58	4978	1.62	199
24	43.05	558 /	1.72	223
25	45.77	6794	1.83	27 /
26	51.08	7266	2.04	290
27	53.94	8350	2.16	334
28	56.69	957 /	2.27	382
29	59.34	11235	2.37	449
30	62.15	12781	2.49	5//





To accommodate the Variable Height of a wall Unit, vertical Bars may be field cut to fit and the number of horizontal Bars G required by the highest wall dimension within a 25' Unit shall be equally spaced at each end of the Unit.

BENDING DIAGRAM



NOTE: All bar dimensions are out to out.

NOTE• Bars M are paired with Bars F and Bars A are paired with Bars J. Bars F and M are No.4 Bars. Bars J are as shown.

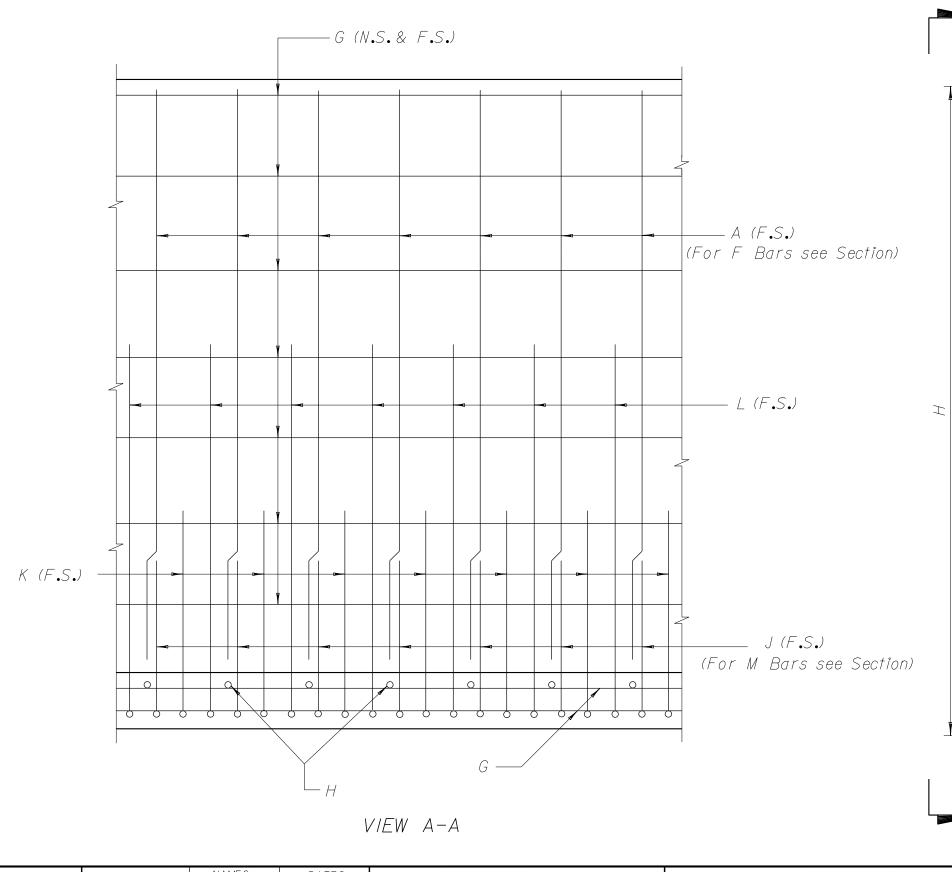
* NOTE•For placement details for Bars D see Standard Index No.800.

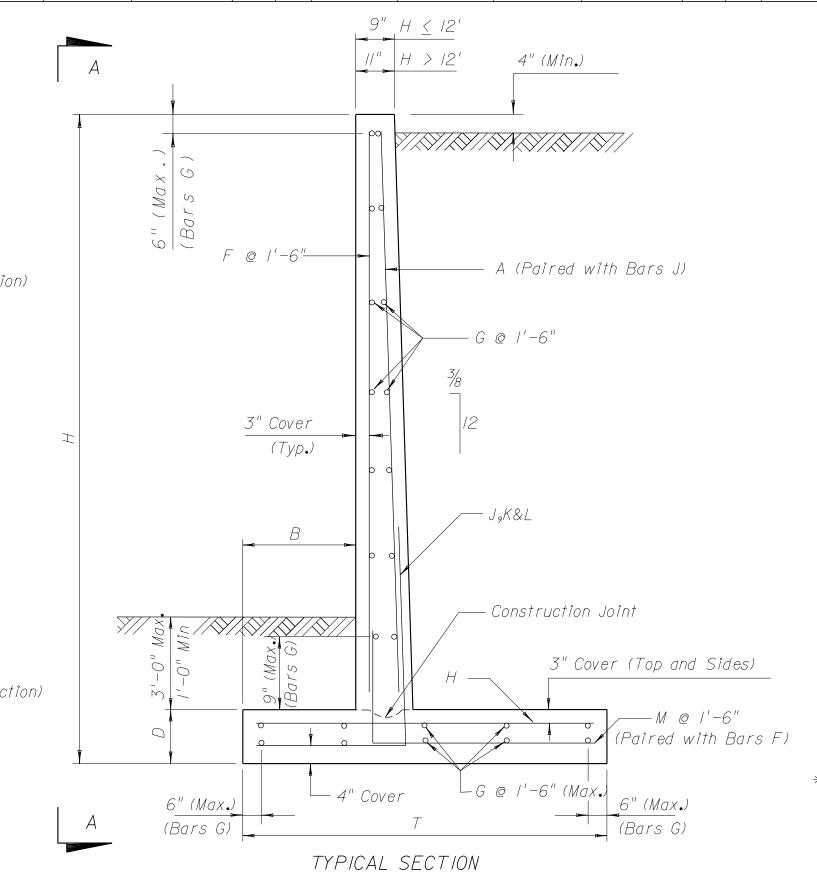
DATE		ISIONS		NAMES DATES	ENGINEER OF RECORD: LOGO:	SEAL 8		FLORIDA DEPARTMENT OF TRANSPORTATION	SHEET TITLE: CASE 1(4.0 KIPS/SQ.FT.MAX.BEARING PRESSURE)	DRAWING NO.
DATE	BY DESCRIPTION	DATE BY DESCRIPTION	DRAWN BY CHECKED BY	M./. 3/87. M.P. 3/87.				STRUCTURES DESIGN OFFICE		1 of 1
		908	DESIGNED BY	. 37 01	STRUCTURES DESIGN OFFICE 605 Suwannee Street, MS 33		= =		PROJECT NAME:	INDEX NO.
			CHECKED BY		Tallahassee, Florida 32399-0450		ROAD NO.	COUNTY PROJECT NO.		803
			APPROVED BY	A.G.M.			·			000

ED. ROAD DIV. NO.	STATE	PROJECT NO.	FISCA YEAR	_ SHEET NO∙
3	FLA.			

									R	ETAINING WALL DATA										
WALL DIMENSIONS										REINFORCING	STEEL SCHE	DULE								
H B D T	BAI	RS A	BARS D	*	BARS F		BARS G	BARS H		BARS J			BARS K			BARS L			BARS M	
	SIZE NO.	LENGTH SIZE	NO. LEN	GTH SIZE	NO. LENG	TH SIZE	VO. LENGTH SIZE NO	. SPACING LENG	GTH SIZE NO. SP	PACING a b	LENGTH SIZ	ZE NO. SPACIN	IG a b	LENGTH	SIZE NO. SPACIN	VG a b	LENGTH	SIZE NO.	C LE	ENGTH
26/ 8" //" 3'- /" -	202	263	4 / /	- 6"204	/ 7 4 ' -	7"205	14 24' - 6" 206 18	1'-5" 2'-	7'' -207 25 1'	- 0" 5'- 5" / '- /"	6 - 6 20	18			209			240 17	/ ' - / / '' 4 '	- / '' 6
7 10" 11" 3 ' - 6"		6	5 / '	- 6" 4	17 5'-	7" 4	16 24' - 6" 4 18	/ / - 5" 3'-	0" 4 25 1'	- 0" 6' - 5" / ' - 3"	7 - 8 "							4 17	2'-2" 4'	- 4" 7
8 1 ' - 0'' 1 1 4 - 0''		6	5 / /	- 6" 4	17 6 ' -	7" 4	18 24' - 6" 4 18	/ / - 5" 3'-	6" 4 25 1'	- 0" 7'- 5" / '- 6"	8 - / / "							4 17	2'-6" 4'	- 8" 8
9 1 ' - 2" 1 1 4 - 6"		6	6 1'	- 6" 4	/7 7 '-	7" 4	20 24 ' - 6 '' 4 19	/ - 4" 4'-	0" 4 28		0'-1"							4 17	2'-10" 5'	- 0" 9
10 1 - 3" 11" 4 -11"		6	7 / /	- 6" 4	17 8 ' -	7" 4	22 24 ' - 6 '' 4 28	/ / '' 4 ' -	5" 4 28	11" 9' - 5" 1 ' - 9" 1	1 - 2"							4 17	3'-2" 5'	- 4" / 0
		6	7 / /	- 6" 4	17 9'-	7" 4	24 24 ' - 6 '' 4 43	7" 5'-	0" 4 30	10" 0'-5" '-11"	12'-4"							4 17	3'-8"5'	-/0"//
/2 / ' - 6" / ' - 0" 5' - / / "		6	8 / /	- 6" 4	17 10'-	6" 4	26 24 ' - 6 '' 4 38	8" 5'-	5" 4 38	8" - 5" 2 ' - "	13'-6"							4 17	3'-//" 6'	- /"/2
/3 / ' - 7" / ' - 0" 6 ' - 3"		6	9 / ′	- 6" 4	/ 7 / / / -	6" 4	28 24 ' - 6 '' 4 50	6" 5'-	9" 4 38	8" 2' - 5" 2' - 4" ,	14'-9"							4 17	4'-2"6'	- 4" / 3
14 1 ' - 9" 1 ' - 0" 6 ' - 10"		6	9 / /	- 6" 4	17 12'-	6" 4.	30 24 ' - 6 '' 4 60	5" 6'-	4" 4 50	6" 3' - 5" 2' - 7" ,	16'-0"							4 17	4'-7" 6'	- 9" / 4
15 1'-10" 1'- 0" 7'- 4"	5 /9	13'-6"6	10 11	- 6" 4	17 13'-	6" 4.	32 24 ' - 6'' 5 50	6" 6'-1	0" 5 19 1"	- 4" 3' - 8" 2 ' - 8"	6 - 4" 5	5 18 1 ' - 4	" 0 ' - 9 " 2 ' - 7 "	/ 3 ' - 4''				4 17	5'-0"7'	- 2" /5
16 2'- 0" 1'- 0" 7'- 8"	5 17	14'-6"6	10 1 '	- 6" 4	17 14 ' -	6" 4.	32 24 ' - 6 '' 6 43	7" 7" -	2" 5 17 1 '	- 6" 2'-10"2'-10".	5 - 8" 5	5 16 1 ' - 6	" 5'- 2"2'-10"	8 ' - 0''	5 16 1 ' - 6	5" 4' - 9" 2' - 10"	/7'-7"	4 17	5'-2"7'	- 4" /6
17 2'- 0" 1'- 2" 8'- 2"	5 /9	15' - 4" 6	// / / /	- 6" 4	17 15 ' -	4" 4 .	36 24 ' - 6 '' 6 43	7" 7" -	8" 5 19 1'	- 4" 3'- 0"2 '-11"	5 -11" 5	5 18 1 ' - 4	5'-8"2'-11"	8 - 7	5 18 1 ' - 4	1" 3 ' - " 2 ' - "	16'-10"	4 17	5'-8"7'	-/0"/7
18 2' - 3" ' - 2" 8' - 9"	5 17	16'-4" 6	12 1'	- 6" 4	17 16 ' -	4" 4 .	38 24 ' - 6'' 6 50	6" 8'-	3" 6 17 1"	- 6" 4' - 4" 3 ' - 2"	7 - 6 " 6	5 16 1 ' - 6	" 5'-//" 3'- 2"	9 - / ''	6 16 1' - 6	5" 4' - 1 1" 3' - 2"	18'- 1"	4 17	6'-0"8'	- 2" /8
19 2' - 4" ' - 2" 9' - 2"	5 / 9	17'-4" 6	12 11	- 6" 4	/ 7 / 7 ' -	4" 4 .	38 24 ' - 6 '' 7 43	7" 8'-	8" 6 19 1"	- 4" 3' - 5" 3 ' - 4" (6 - 9 6	5 18 1 ' - 4	" 6' - 4" 3 ' - 4"	9 - 8"	6 18 1 ' - 4	1" 5' - 4" 3' - 4"	18'-8"	4 17	6'-4" 8'	- 6" / 9
20 2' - 6" ' - 2" 9' - 8"	6 17	18'-4" 6	13 1'	- 6" 4	17 18 ' -	4" 4	42 24 ' - 6 '' 7 43	7" 9'-	2" 7 17 1'	- 6" 3' - 5" 3' - 6" (6 - / / 7	16 1' - 6	" 6' - 4" 3 ' - 6"	9 - 10"	7 16 1 ' - 6	5" 6' - 4" 3' - 6"	19'-10"	4 17	6'-8"8'	-/0"20
21 2' - 7" ' - 5" 0' - 1"	6 17	19'-1" 6	14 1 1	- 6" 4	17 19 ' -		44 24 ' - 6 '' 7 43	7" 9'-	7'' 7 17 1'	- 6" 5' - 2" 3 ' - 7"	8 ' - 9 '' 7	16 1' - 6	" 7'- 2" 3 '- 7" 1	0'-9"	7 16 1 ' - 6	5" / / ' - 2" 3 ' - 7"	14'-9"	4 17	7'-0"9'	- 2"2/
22 2'-10" 1'- 5" 0'- 7"	6 /9	20' - 1" 6	14 11	- 6" 4	17 20 ' -		44 24 ' - 6 '' 7 50	6" /0'-	/" 7 <i>19</i> <i>1</i> '	- 4" 4' - 7" 3 ' - / / ''	8 - 6 " 7		" 8'- 2" 3 '-//" /	2'-/"	8 18 1 ' - 4	1" 2' - 2" 3' - "	/6'-/"	4 17	7'-3" 9'	- 5" 22
23 2'-10" '- 5" '- 0"	6 17	21'-1" 6	15 1'	- 6" 4	17 21 '-	/ '' 4 ·	46 24 ' - 6 '' 8 50	6" /0'-	6" 8 17 1"	- 6" 5'-10" 3 '-11".	9 - 9 8	3 16 1 ' - 6	" 8'-/0" 3 '-//" /	2'-9"	8 16 1' - 6	5" 3' - 2" 3' - "	/ / / - / //	4 17	7'-8"9'	-/0"23
24 3' - 1" 1' - 5" 1' - 6"	6 /9	22' - 1" 6	16 1'	- 6" 4	17 22 ' -	/" 4 .	50 24 ' - 6'' 8 50	6" //'-	0" 8 19 1"	- 4" 5'-10" 4 '- 2" 1	8 0 ' - 0 ''	18 18 1 ' - 4	" 9'-10"4 '- 2" 1	4 ' - 0''	8 18 1 ' - 4	1" 4 ' - 2" 4 ' - 2"	18'- 4"	4 17	7'-//''/0'	- /"24
25 3' - 1" 1' - 5" 12' - 0"	6 17	23' - 1" 6	16 1'	- 6" 4	17 23'-	<i> 4 </i>	50 24' - 6" 9 50	6" // -	6" 9 17 1'	- 6" 6'-//"4'- 3"/	9	16 1' - 6	" 0 ' - 6 " 4 ' - 3"	14'-9"	9 16 1' - 6	5" 7' - 6" 4' - 3"	2/'-9"	4 17	8'-5"/0'	- 7" 25
26 3' - 5" 1' - 8" 2' - 6"	6 19	23'-10" 6	77 / /	- 6" 4	17 23'-	10"4.	52 24' - 6" 9 43	7" /2'-	0" 9 19 1"	- 4" 7'- 5"4'- 7"/	2'-0" 9	18 1'- 4	" - 4" 4 ' - 7"	15'-//''	9 18 1' - 4	1" 8 ' - 3" 4 ' - 7"	22'-10"	4 17	8'-7"/0'	- 9" 26
27 3' - 8" ' - 8" 3' - 2"	6 17	24'-10" 6	18 1'	- 6" 4	17 24'-	10"4.	56 24' - 6" 9 50	6" /2'-	8" 10 17 1"	- 6" 7'-//"4'-//"/	2 -10" 10	16 1'- 6	"	16 '- 8"	10 16 1' - 6	5" 8 ' - 9" 4 ' - "	23'-8"	4 /7	9'-0"//	- 2" 27
28 4'-0" '-8" 3'-9"	7 19	25'-10" 6	18 1'	- 6" 4	17 25 ' -	10"4.	56 24' - 6" 9 50	6" /3'-	3" 10 19 1"	- 4" 8' - 5" 5 ' - 3" /	3'-8" 10	18 1'- 4	" 2' - 3" 5' - 3"	17'-6"	10 18 1' - 4	1'' 9' - 9'' 5' - 3''	25'-0"	4 17	9'-3"//	- 5" 28
29 4'- 3" '- 8" 4'- 5"	8 17	26 ' - 10'' 6	19 1'	- 6" 4	17 26 ' -	10" 4	60 24' - 6" 10 50	6" 3' - 1	/	- 6" 8'-11"5'- 6"1	4'-5"	16 1'- 6	" 2'- 9"5'- 6"	18'-3"	1 16 1'-6	5" 20' - 9" 5' - 6"	26'- 3"	4 17	9'-8"//	-10"29
30 4'-8" '-8" 5'- "	8 19	27'-10"6	20 1'	- 6" 4	17 27 ' -	10" 4	62 24' - 6" 10 50	6" /4'-	7"	- 4" 9'- 5"6'- 0"/	5'-5" //	18 1'- 4	" /3'- 0"6'- 0"	19'-0"		1"21'-9"6'-0"	27'-9"	4 17	9'-//"/2	- /" 30

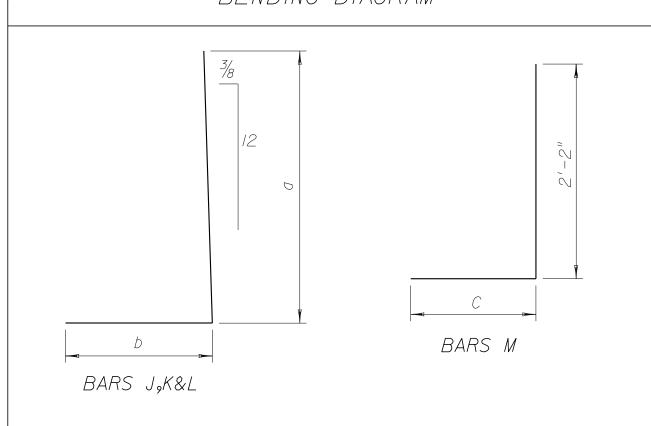
		QUANTI	TIES	
1.1	CONCRETE / 25' UNIT	STEEL / 25' UNIT	CONCRETE PER LIN.FT.	STEEL PER LIN.FT.
Н	C.Y.	LBS.	C.Y.	LBS.
1 26 /	6.52	476	0.26	19
7	7.73	549	0.3/	21
8	9.04	624	0.36	24
9	10.38	723	0.42	28
10	11.67	825	0.47	33
/ /	13.14	977	0.53	39
12	14.87	1112	0.59	44
13	18.06	1247	0.72	49
14	19.81	1518	0.79	60
15	21.51	1780	0.86	7 /
16	23.09	2041	0.92	8 /
17	25 .89	2270	1.04	90
18	27 .84	2680	/ 。/ /	107
19	29.64	3006	1.19	120
20	31.56	3509	1.26	140
21	35.40	3540	1.42	141
22	37 .48	4237	1.50	169
23	39.49	4794	1.58	191
24	41.63	5379	1.67	2/5
25	43.80	6412	1.75	256
26	48.51	6863	1.94	274
27	5/.//	7868	2.04	314
28	53.60	9044	2.14	36 /
29	56.26	10760	2.25	430
30	58.94	12089	2.36	483





To accommodate the Variable Height of a wall Unit, vertical Bars may be field cut to fit and the number of horizontal Bars G required by the highest wall dimension within a 25' Unit shall be equally spaced at each end of the Unit.

BENDING DIAGRAM



NOTE: All bar dimensions are out to out.

NOTE: Bars M are paired with Bars F and Bars A are paired with Bars J. Bars F and M are No.4 Bars. Bars J are as shown.

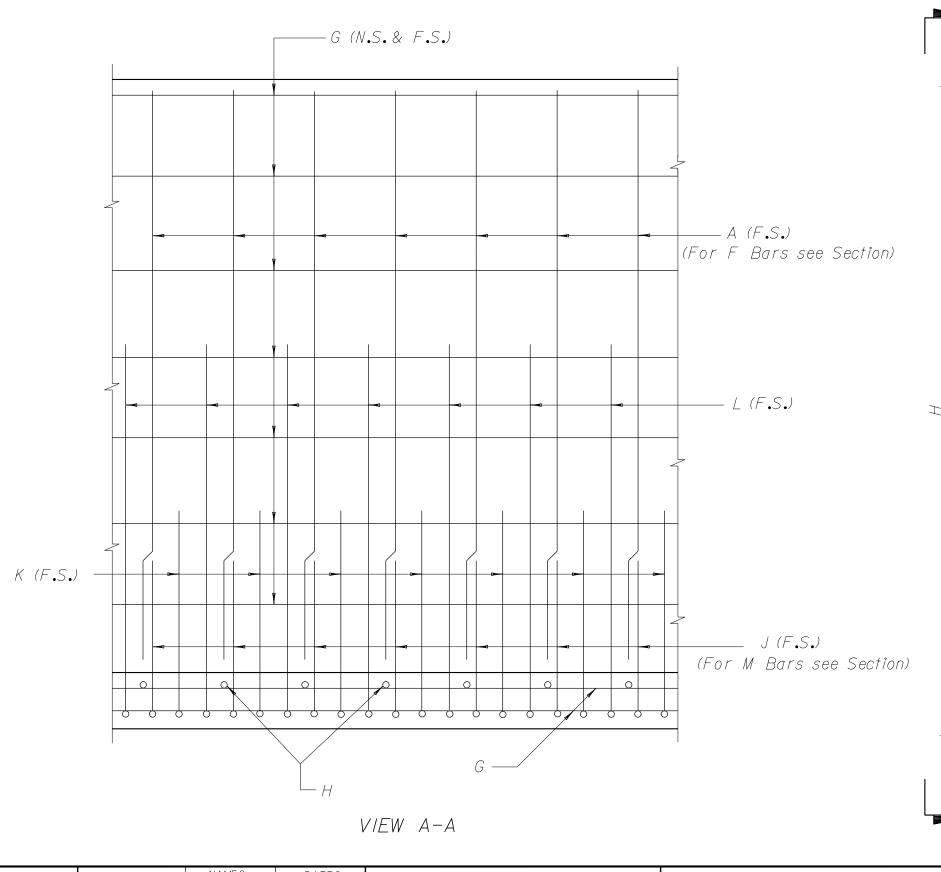
* NOTE•For placement details for Bars D see Standard Index No.800.

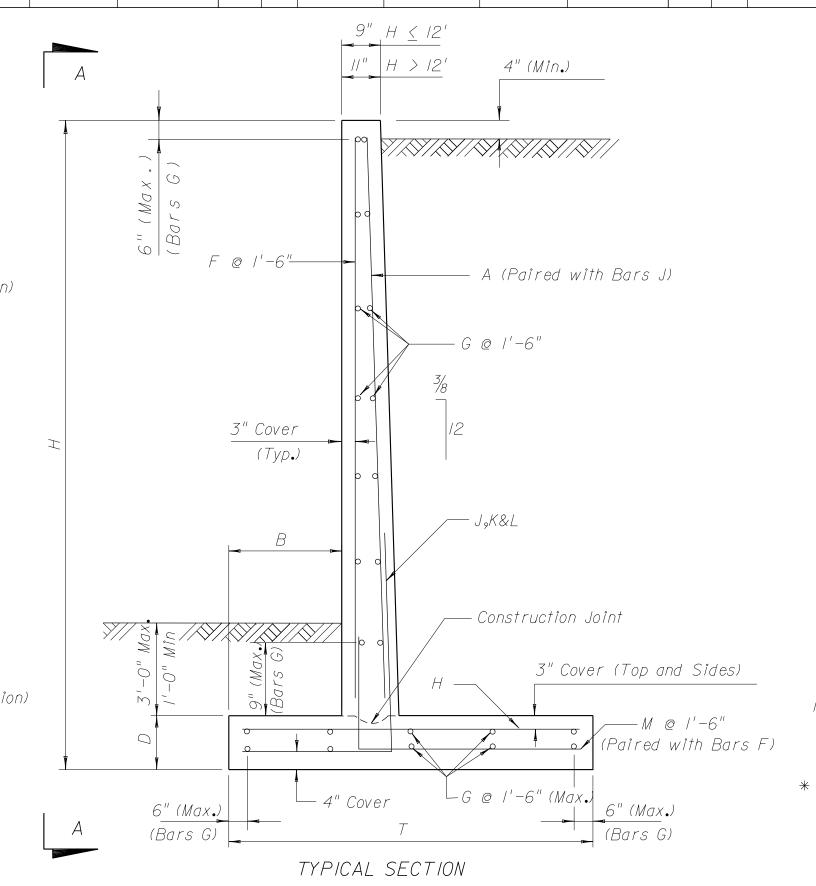
DATE	BY DESCRIPTION	DATE BY DESCRIPTION 90R	DRAWN BY CHECKED BY DESIGNED BY	M./. 3/87 M.P. 3/87	ENGINEER OF RECORD: STRUCTURES DESIGN OFFICE 605 Suwannee Street, MS 33	JULY 1	FLORIDA DEPARTMENT OF TRANSPORTATION STRUCTURES DESIGN OFFICE ROAD NO. COUNTY PROJECT NO.	CASE I (5.0 KIPS/SQ. FT. MAX. BEARING PRESSURE) 6 FT. TO 30 FT. HEIGHT	DRAWING NO. / Of / INDEX NO.
			CHECKED BY APPROVED BY	A.G.M.	Tallahassee, Florida 32399-0450				804

ED. ROAD DIV. NO.	STATE	PROJECT NO.	FISCA YEAR	_ SHEET NO.
3	FLA.		•	

								RETAII	VING WALL DATA									
WALL DIMENSIONS									REINFORCING STEE	EL SCHEDULE								
H B D T	BARS	A BAI	RS D*	BARS F	BARS G		BARS H		BARS J		BARS K			BARS L		L	BARS M	
	SIZE NO. L	ENGTH SIZE NO.	LENGTH SIZE	NO. LENGT	TH SIZE NO. LEN	IGTH SIZE NO.	SPACING LENGTH	SIZE NO. SPACING	a b LEN	NGTH SIZE NO. SPA	ACING a b	LENGTH	SIZE NO. SPACING	а Ь	LENGTH SIZ	ZE NO.	C LENG	\overline{GTH}
20 8" //" 3'-/"	202	263 4	1'-6"-204		7"-205 4 24 '	- 6"-206 18	1'-5" 2'-7"	-207 26 1'- 0''	5'-5"1'-1"6'-6	" -208			209		-24	0 17		1" 6
7 10" 11" 3' - 6"		6 5	1'-6"4	17 5'-	7" 4 16 24 '	- 6" 4 /8	1'-5" 3'-0"	4 26 1 ' - 0 ''	6'-5"1'-3"7'-8	H					4	! /7	2'-2" 4'-	4" 7
8 ' - 0" 4 - 0"		6 5	1'-6"4	17 6'-	7" 4 18 24	- 6" 4 /8	1'-5" 3'-6"	4 26 1 ' - 0 ''	7'-5"1'-6"8'-11	П					4	! /7	2'-6" 4'-	8" 8
9 1'- 2" 11" 4'- 6"		6 6	1'-6"4	/7 7 '-	7" 4 20 24'	- 6" 4 /9	/'- 4" 4'- 0"	4 28 11"	8'-5"1'-8"10'-	, ,,					4	! /7	2'-10" 5'- (0" 9
10 1'- 3" 11" 4'-11"		6 7	1'-6"4	17 8'-	7" 4 22 24'	- 6" 4 28	11" 4'- 5"	4 28 11"	9'-5"1'-9"11'-2	2"					4	! /7	3'-2"5'-	4" 10
// // - 4" //" 5 ' - 6"		6 7	1'-6"4	17 9'-	7" 4 24 24'	- 6" 4 43	7" 5'- 0"	4 30 /0"	10'-5"1'-11"12'-	4"					4	! /7	3'-8"5'-/	10"11
12 1'- 6" 1'- 0" 5'-11"		6 8	1'-6"4	17 10'-	6" 4 26 24'	- 6" 4 38	8" 5'- 5"	4 38 8"	11'-5"2'-1"13'-	6"					4	! /7	3'-//'' 6'-	1"12
/3 / ' - 7" / ' - 0" 6 ' - 3"		6 9	1'-6"4	/7 // -	6" 4 28 24'	- 6" 4 50	6" 5'- 9"	4 38 8"	12'-5"2'-4"14'-	9"					4	! /7	4'-2"6'-	4"/3
14 ' - 9" ' - 0" 6 ' - 10"		6 9	1'-6"4	17 12'-	6" 4 30 24'	- 6" 4 60	5" 6'- 4"	4 50 6"	13'-5"2'-7"16'-	0"					4	! /7	4'-7"6'-	9" / 4
15 1'-10" 1'- 0" 7'- 4"	5 /9 /.	3'-6"6 10	1'-6"4	17 13'-	6" 4 32 24'	- 6" 5 50	6" 6'-10"	5 19 1 ' - 4''	2"-10" 2 - 8" 5 - 6	" 5 /8 / ' -	- 4" 10' - 9" 2' - 7" .	13'-4"			4	! /7	5'-0"7'-	2" 15
16 2'- 0" '- 0" 7'- 8"	5 17 14	4'-6"6 10	1'-6"4	17 14'-	6" 4 32 24'	- 6" 6 43	7" 7'- 2"	5 17 1 ' - 6 ''	2'-10"2'-10" 5'- 8	5 /6 / '	- 6" 5' - 2" 2' - 10"	8 ' - 0''	5 /6 / ' - 6"	14'- 9"2'-10" 1	17' - 7'' 4	! /7	5'-2"7'-	4" /6
17 2'- 0" '- 2" 8'- 2"	5 /9 /3	5'-4"6 //	1'-6"4	17 15'-	4" 4 36 24'	- 6" 6 43	7" 7'- 8"	5 /9 / ' - 4''	3'-0"2'-11" 5'-11	" 5 /8 / ' -	- 4" 5'- 8"2'-11"	8 ' - 7 ''	5 18 1 ' - 4''	13'-11"2'-11"1	16'-10'' 4	! /7	5'-8"7'-10	10"17
18 2' - 3" ' - 2" 8' - 9"	5 17 16	6'-4" 6 12	1'-6"4	17 16'-	4" 4 38 24'	- 6" 6 50	6" 8'- 3"	6 17 1 ' - 6''	4'-4"3'-2"7'-6	" 6 16 1 ' -	- 6" 5'-11" 3'- 2"	9 ' - / ''	6 16 1' - 6"	14'-11"3'- 2"1	18'- '' 4	! /7	6'-0"8'-	2" 18
19 2'- 4" '- 2" 9'- 2"	5 /9 /7	7'-4"6 12	1'-6"4	/7 /7 /	4" 4 38 24'	- 6" 7 43	7" 8'-8"	6 /9 / ' - 4''	3'-5"3'-4"6'-9	" 6 /8 / ' -	- 4" 6' - 4" 3' - 4"	9 ' - 8 ''	6 18 1' - 4''	15'-4"3'-4"1	18'-8" 4	! /7	6'-4"8'-	6" 19
20 2'- 6" '- 2" 9'- 8"	6 17 18	8'-4" 6 13	1'-6"4	17 18'-	4" 4 42 24'	- 6" 7 43	7" 9'- 2"	7 17 1 ' - 6 ''	3'-5"3'-6"6'-11	" 7 16 1'-	- 6" 6' - 4" 3' - 6"	9 ' - / 0 ''	7 16 1'- 6"	16'-4"3'-6"1	19'-10'' 4	! 17	6'-8"8'-10	10"20
21 2'-7"1'-5"10'-1"	6 17 19	9'-1"6 14	1'-6"4	17 19'-	l'' 4 44 24'	- 6" 7 43	7" 9'-7"	7 17 1 ' - 6 ''	5'-2"3'-7"8'-9	" 7 16 1'-	- 6" 7' - 2" 3' - 7" /	0'-9"	7 16 1' - 6"	11'-2"3'-7"1	14'-9" 4	! 17	7'-0"9'-	2"21
22 2'-10" '- 5" 0'- 7"	6 19 20	0'-1"6 14	1'-6"4	17 20'-	l'' 4 44 24 '	- 6" 7 50	6" 10'-1"	7 19 1 ' - 4''	4'-7"3'-11"8'-6	" 7 /8 / ' -	- 4" 8' - 2" 3' - 1 1" 1	2'- /"	7 18 1 ' - 4''	12'- 2"3'-11" 1	16'-1" 4	! 17	7'-3"9'	5" 22
23 2'-10" '- 5" '- 0"	6 17 2	1'-1"6 15	1'-6"4	17 21 '-	l'' 4 46 24'	- 6" 8 50	6" 10' - 6"	8 17 1 ' - 6 ''	5'-10"3'-11"9'-9	" 8 16 1 ' -	- 6" 8'-/0" 3'-//"/	2'-9"	8 16 1' - 6"	13'-2"3'-11"1	17'- '' 4	! /7	7'-8"9'-/0	10"23
24 3'- " '- 5" '- 6"	6 19 2	2'-1"6 16	1'-6"4	17 22'-	<i>I'' 4 50 24'</i>	- 6" 8 50	6" //' - 0"		5'-10"4'-2"10'-(D'' 8 /8 / ' -	- 4" 9'-10"4'- 2"1	4'-0"	8 18 1 ' - 4''	14'-2"4'-2"1	18'-4" 4	! /7	7'-//''/0'-	1"24
25 3'- 1"1'- 5" 12'- 0"			1'-6"4	17 23'-	<i>I'' 4 50 24'</i>	- 6" 9 50	6" //' - 6"	9 17 1 ' - 6 ''	6'-11"4'- 3"11'- 2		- 6" 10' - 6" 4' - 3" .		9 16 1' - 6"	17'-6"4'-3"2	21'-9" 4	! /7	8'-5"/0'-	7" 25
26 3'-5" '-8" 2'-6"	6 19 2.	3'-10" 6 17	1'-6"4	17 23'-1	0" 4 52 24'	- 6" 9 43	7" /2'- 0"	9 /9 / ' - 4"	7'-5"4'-7"12'-()" 9 18 1 ' -	- 4" / / - 4" 4 ' - 7"	5'-//'	9 18 1' - 4"	18'- 3"4'- 7"2	22'-10" 4	! /7	8'-7"/0'-	9" 26
27 3'-7"1'-8"12'-11"	6 17 2	4'-10" 6 18	1'-6"4	17 24'-1	0" 4 56 24'	- 6" 9 50	6" /2' - 5"	10 17 1 - 6"	7'-11"4'-10"12'- 9	9" 10 16 1 ' -	- 6" / / ' - 9" 4 ' - 10" .	16'-7"	10 16 1' - 6"	18'- 9"4'-10"2	23'-7" 4		8'-/0"///	
28 3'-10" '- 8" 3'- 5"							6" /2'-//"		8'-5"5'-1"13'-6		- 4" 2' - 3" 5' - 1"			20'- 3"5'- 1"2			9'- '' '-	
29 4'- 1" 1'- 8" 13'- 9"							6" 3' - 3"		8'-11"5'- 4"14'-		- 6" 2' - 9" 5' - 4"			20'- 9"5'- 4"2			9'-2"//'-	
30 4'- 5" '- 8" 4'- 6"									9'-5"5'-9"15'-2		- 4" 3' - 0" 5' - 9" .	181-911		21'-9"5'-9"2			9'-7"//-	
	1 1	I I	<u> </u>		1 1		I	1 1					1 1	<u>l</u>	ı			

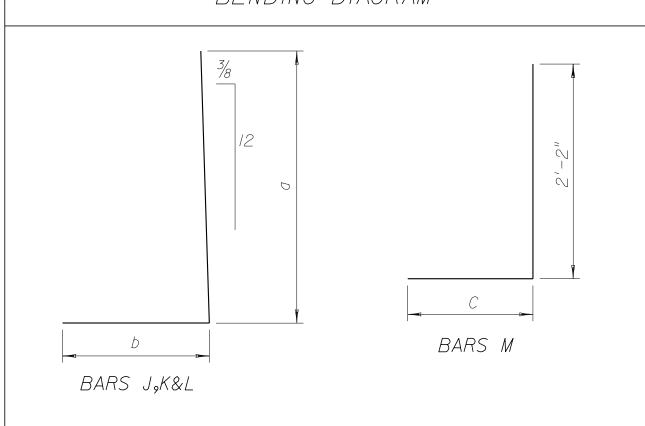
		QUANTI	TIES	
1.1	CONCRETE/ 25' UNIT	STEEL / 25' UNIT	CONCRETE PER LIN.FT.	STEEL PER LIN.FT.
Н	C.Y.	LBS.	C.Y.	LBS.
1 26 /	6.52	480	0.26	19
7	7.73	554	0.3/	22
8	9.04	630	0.36	25
9	10.38	723	0.42	28
10	11.67	825	0.47	33
/ /	13.14	974	0.53	38
12	14.87	1112	0.59	44
13	18.06	1247	0.72	49
14	19.81	1518	0.79	60
15	21.51	1780	0.86	7 /
16	23.09	2041	0.92	8 /
17	25.89	2270	1.04	90
18	27 .84	2680	/ . / /	107
19	29.64	3006	1.19	120
20	31.56	3509	1.26	140
21	35.40	3540	1.42	141
22	37 .48	4056	1.50	162
23	39.49	4794	1.58	191
24	41.63	5379	1.67	215
25	43.80	6412	1.75	256
26	48.51	6863	1.94	274
27	50.72	7806	2.03	3/2
28	53.09	8985	2.12	359
29	55.23	10535	2.21	421
30	58.04	11887	2.32	475





To accommodate the Variable Height of a wall Unit, vertical Bars may be field cut to fit and the number of horizontal Bars G required by the highest wall dimension within a 25' Unit shall be equally spaced at each end of the Unit.

BENDING DIAGRAM



NOTE: All bar dimensions are out to out.

NOTE• Bars M are paired with Bars F and Bars A are paired with Bars J. Bars F and M are No.4 Bars. Bars J are as shown.

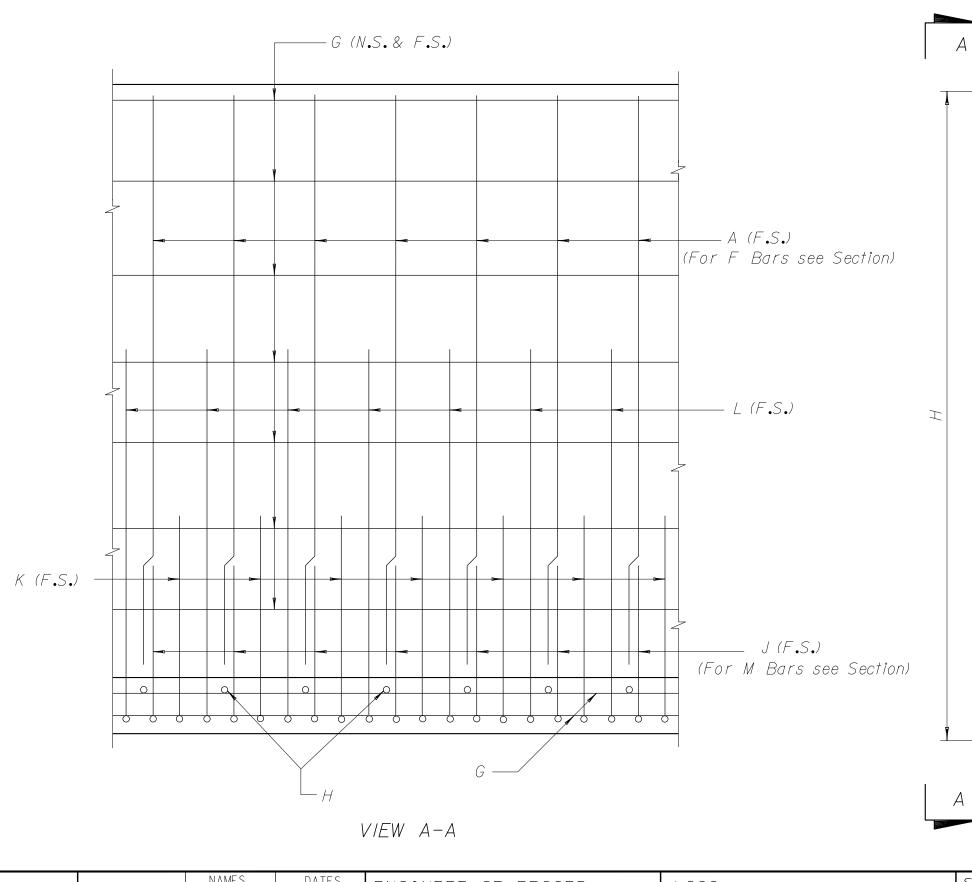
* NOTE•For placement details for Bars D see Standard Index No.800.

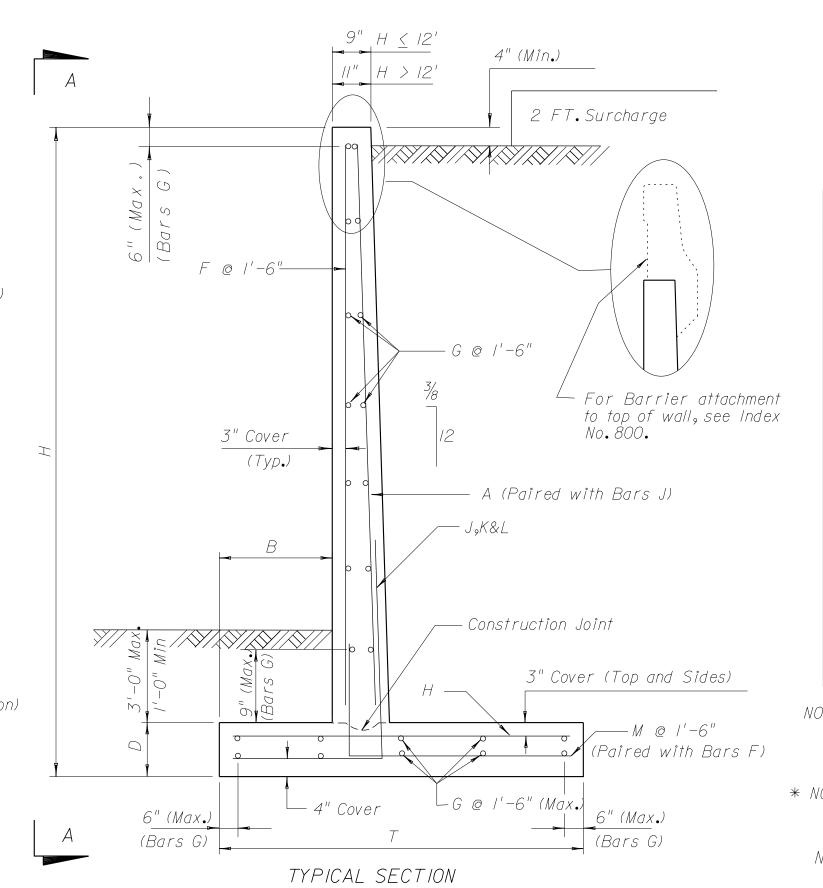
DATE BY DESCRIPTION DATE BY DESCRIPTION DRAWN BY OHECKED BY	NAMES DATES M:/. 3/87 M.P. 3/87 STRUCTURES DESIGN OFFICE SEASON SEAS	FLORIDA DEPARTMENT OF TRANSPORTATION STRUCTURES DESIGN OFFICE	TOUS TOUS AND STORE TO MAKE DEALING THE SOUNCE	DRAWING NO.
DESIGNED BY CHECKED BY APPROVED BY	605 Suwannee Street, MS 33 Tallahassee, Florida 32399-0450	ROAD NO. COUNTY PROJECT NO.	PROJECT NAME:	INDEX NO. 805

ED. ROAD DIV. NO.	STATE	PROJECT NO.	FISCA YEAR	_ SHEET NO.
3	FLA.		•	

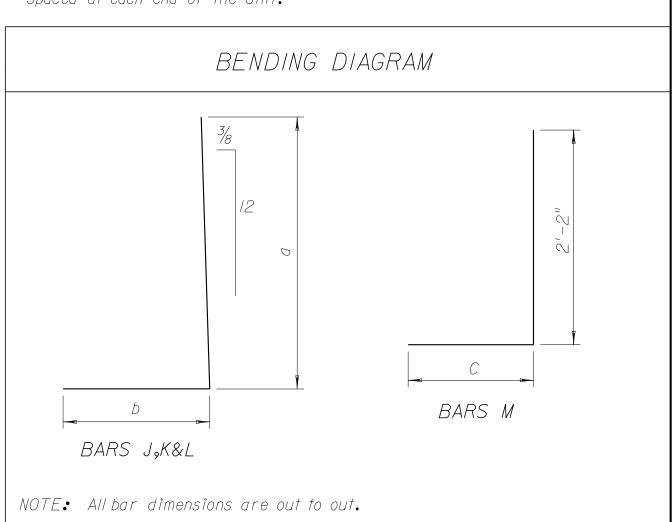
													RET	TAINING WALL [ATA												
WALL	DIMENS	SIONS												REINFORCING STEEL SCHEDULE													
H	D	T		BARS A		BAI	RS D*	BAR	S F	BARS G	BARS H			BARS J					BARS K			BAR	S L			BARS M	
			SIZE	NO. LENG	TH SIZ	ZE NO.	LENGTH	SIZE NO.	LENGTH	SIZE NO. LENGTH SIZE NO	SPACING	LENGTH SIZE	NO. SPAC	CING a	b LE	ENGTH	SIZE NO. SPA	AC/NG	а Ь	LENGTH	SIZE NO. SPACI	ING a	Ь	LENGTH S	SIZE NO.	С	LENGTH
#86/'-/'	/ / "	' 4' - 3''	+47		+6	8 4	1'-6"	+49 17	4'-7	" + 50 16 24 ' - 6 ' + 5 18	3 / ' - 5" 3	'-9" +52 2	28 /	/ / " 5 ' - 5" /	- 6" 6 -1	/ // -	153				+54			+/	§ 5 /7	2'-8"	4'-10'' 6
7 / ' - 2"	/ / /'	' 4 ' - 10''			6	5	/ ' - 6''	4 17	5'-7	" 4) / ' - 4'' 4	' - 4" 5	30 /	10" 6' - 5" / '	- 7" 8"-	0"									4 17	3'-2"	5'-4"7
8 / ' - 4''	/ / "	' 5 ' - 3''			6	5	/ ' - 6"	4 17	6'-7	7" 4 20 24 ' - 6" 4 28		' - 9" 5	34	9" 7'- 5"/	- 9" 9 -	2"									4 17	3'-5"	5'-7"8
9 / ' - 7 "	/ / "	5 - 9"			6	6	/ ' - 6"	4 17	7'-7	7" 4 22 24 ' - 6" 4 3 ²	9" 5	' - 3'' 5	34	9" 8' - 5" 2	- /"/0"-	6"									4 17	3'-8"	5'-10" 9
10 1'-8"	/ / "	6 - 4			6	7	/ ' - 6 ''	4 17	8'-7	7" 4 24 24 ' - 6" 4 50	6" 5	'-/0" 5	38	8" 9' - 5" 2	- 2" / / ' -	7 ''									4 17	4'-2"	6'-4"10
// / / -/0"	/ / /'	' 7 ' - 2"			6	7	/ ' - 6"	4 17	9'-7	4 26 24' - 6" 5 43	7" 6	' - 8" 5	43	7" 0' - 5" 2	- 5" /2" -	10"									4 17	4'-/0"	7'-0"//
12 2' - 2"	/ ' - C)" 8'- 2	'		6	8	/ ' - 6"	4 17	10'-6	5" 4 30 24 ' - 6" 5 38	8" 7	' - 8" 5 2	23 / ' -	/" / / ' - 5" 2	- 9" /4"-	2"	5 22 1'-	- 1" 9	- 8"2"- 9" / 2	2'-5"					4 17	5'-6"	7'-8"12
13 2' - 6"	/ ' - C	o'' 9'- o	'		6	9	1'-6"	4 17	11'-6	5" 4 32 24' - 6" 5 50	6" 8	' - 6" 5 2	23 ' -	1" 12' - 5" 3	- 3" /5" -	8''	5 22 1'-	- 1" 9"	- 0" 3 ' - 3" / 2	2'- 3"					4 17	6'-0"	8'-2"/3
14 2' - 9"	/ ' - C	0"10"-1	11		6	9	/ ' - 6 ''	4 17	12'-6	5" 4 34 24' - 6" 6 38	8" 9	' - 7" 5 2	25 / ' -	0" /3' - 5" 3	- 7" /7" -	0''	5 24 1 ' -	- 0" 9"	- 0"3"- 7"/2	2'-7"					4 17	6'-10"	9'-0"/4
15 3' - 0"	/ ' - C	D'' ' - 3	" 5	20 13' -	6" 6	10	1'-6"	4 17	13'-6	5" 4 38 24' - 6" 6 50	6" / 6	1'-9" 5 2	20 / -	3" 3' - 8" 3'	-/0"7"-	6"	5 /9 / ' -	- 3" /2	'- 2" 3 '-10" 1	6'-0"	5 /9 / ' -	3" 8' - C	" 4 ' - 2" /	2"- 2"	4 17	7'-9"	9'-//''/5
16 3' - 4"	/ ' - C	o" 2' - 3	" 6	17 14 ' -	6" 6	10	/ ' - 6''	4 17	14'-6	6'' 4 38 24 ' - 6'' 6 60	5" //	' - 9'' 6	/7 / / -	6" 3' - 3" 4	- 2" 7 -	5"	6 16 1 ' -	- 6" 3"	- 2"4'- 2" 7	l - 4"	6 16 1'-	6" 9' - 3	1 4 - 7 / /	3'-10"	4 17	8'-5"	10'-7"16
17 3' - 8"	/ ' - 2	2" 3' - 8	" 6	19 15'-	4'' 6	/ /	1'-6"	4 17	15'-4	4 42 24' - 6" 6 60	5" / 3	'' - 2'' 6	19 1'-	4" 4'- /"4	- 7" 8"-	8"	6 18 1 ' -	- 4" 3"	- 4"4"- 7" 7	- / / "	6 18 1'-	4" 9' - 3	1 4 - / / / /	4'-2"	4 17	9'-6"	11'-8"17
18 4'- 0"	/ ' - 2	2" /4' - 7	" 6	17 16'-	4" 6	12	/ ' - 6''	4 17	16'-4	4 46 24' - 6" 8 38	8" /4	7 - /" 7	17 / -	6" 4' - 4" 4	-//" 9 -	3"	7 16 1 ' -	- 6" 3"	- 4"4"-11"8	7 - 3"	7 /6 / '-	6" 7'-//	"5"-0"1	2'-//"	4 17	10'- '''	12'-3"18
19 4'- 4"	/ ' - 2	2" 15'-10	" 6	19 17 ' -	4" 6	12	/ ' - 6 ''	4 17	17'-4	4 48 24 - 6" 8 43	7" / 5	7 4" 7	19 1 ' -	4" 5' - 2" 5'	- 4" 10 ' -	6"	7 18 1 ' -	- 4" 4"	-//"5"- 4"/() ' - 3''	7 /8 / ' -	4" 8'-//	"5"-4"/	4'-3"	4 17	// '- 0''	13'-2"19
20 4'- 9"	1 ' - 2	2" /6 ' - / /	" 6	17 18'-	4" 6	13	/ ' - 6 ''	4 17	18'- 4	1'' 4 50 24' - 6'' 8 50	6" 16	- 5" 8	17 / ' -	6" 4' - 4" 5	- 9" 10 ' -	/ "	8 16 1 ' -	- 6" 4"	-//"5"- 9"/(0'-8"	8 16 1'-	6" 9'-11	"5'-9"/	5 ' - 8''	4 17	11'-8"	13'-10"20

		QUANTI	TIES	
1.1	CONCRETE/ 25' UNIT	STEEL / 25' UNIT	CONCRETE PER LIN,FT.	STEEL PER LIN.FT.
H	C.Y.	LBS.	C.Y.	LBS.
#66	7.51	624	0.30	24
7	8.86	735	0.35	29
8	10.10	890	0.40	35
9	11.44	1017	0.46	40
10	12.88	1231	0.52	49
/ /	14.56	1504	0.58	60
12	16.95	1647	0.68	65
13	20.60	1867	0.82	7.4
14	22.82	2126	0.97	85
15	25 . 14	2707	1.01	108
16	27 .33	3046	1.09	121
17	31.83	3478	1.27	/ 39
18	34 . 1 4	396 /	1.37	158
19	36 .84	47 2 3	1.47	188
20	39.39	5455	1.58	218





To accommodate the Variable Height of a wall Unit, vertical Bars may be field cut to fit and the number of horizontal Bars G required by the highest wall dimension within a 25' Unit shall be equally spaced at each end of the Unit.



NOTE: Bars M are paired with Bars F and Bars A are paired with Bars J. Bars F and M are No.4 Bars. Bars J are as shown.

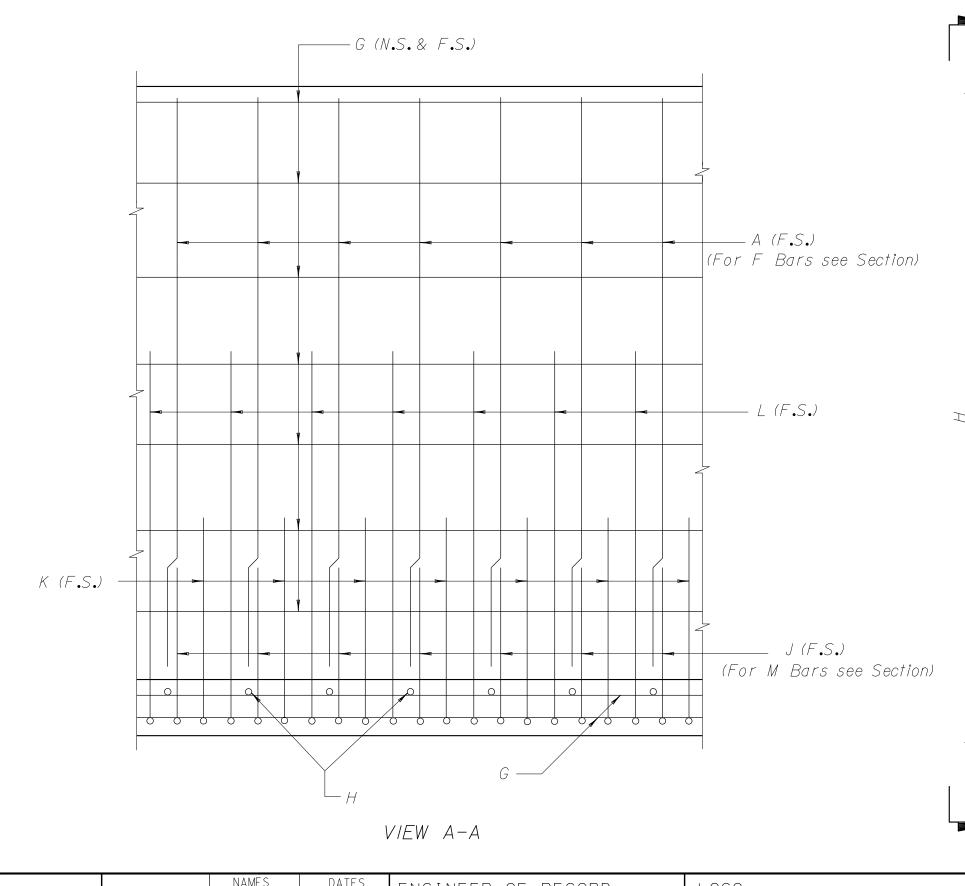
* NOTE•For placement details for Bars D see Standard Index No.800.

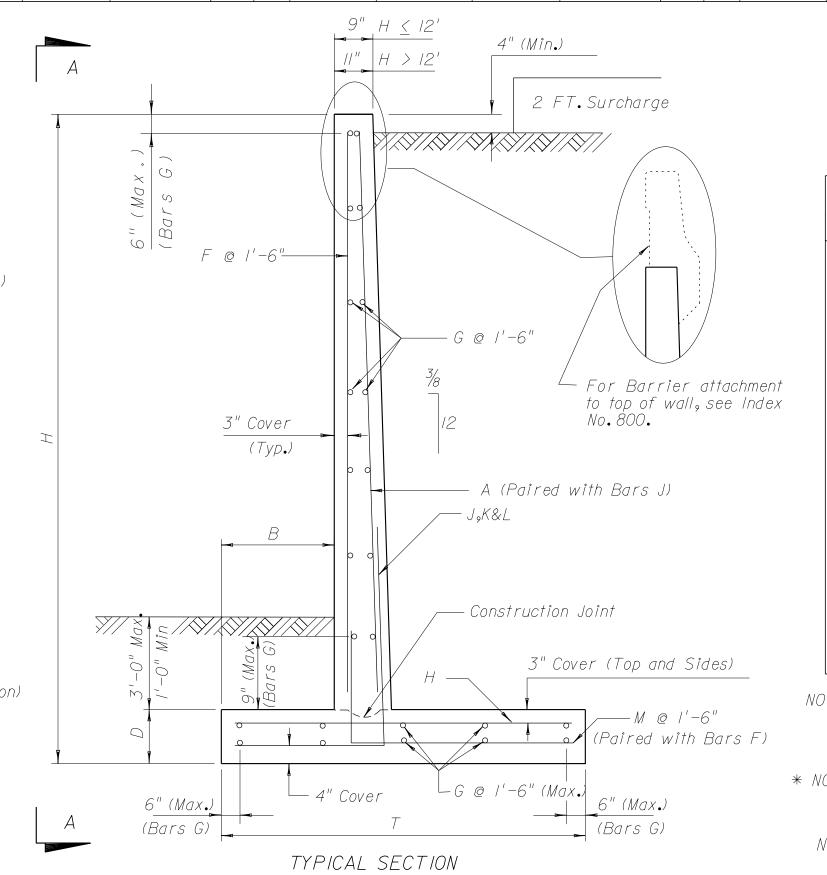
		ISIONS			NAMES	DATES	ENGINEER OF RECORD: LOGO:	SEAL &	====	ELODIDA DEDADA	A JENTE OF THE ANICHONE ATION	SHEET TITLE:	DRAWING NO.
DATE BY	DESCRIPTION	DATE BY	DESCRIPTION	DRAWN BY	M:./.	3/87					MENT OF TRANSPORTATION	CASE II (2.0 KIPS/SQ.FT.MAX.BEARING PRESSURE)	10f 1
		90R		CHECKED BY	M.P.	3/87	STRUCTURES DESIGN OFFICE			STRUCTUR	ES DESIGN OFFICE	6 FT. TO 20 FT. HEIGHT	1011
				DESIGNED BY			605 Suwannee Street, MS 33		- V =	0.000070		PROJECT NAME:	INDEX NO.
				CHECKED BY			Tallahassee, Florida 32399-0450		ROAD NO.	COUNTY	PROJECT NO.		000
				APPROVED BY	A.	7 M .				•			806
				7111110128 81	/	J • V •							

ED. ROAD DIV. NO.	STATE	PROJECT NO.	FISCA YEAR	_ SHEET NO.
3	FLA.		•	

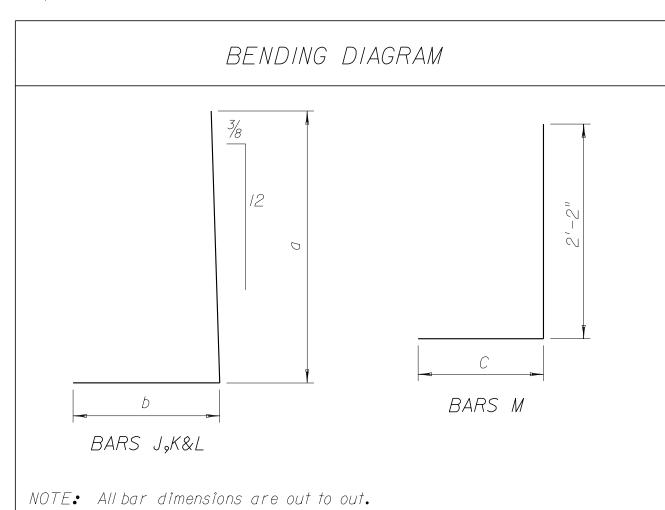
																RETAINI	NG WALL DATA													
WALL	DIMENSIONS																REINFORC	NG STEEL	SCHEDULE	-										
Н В	D	T	В	BARS A		BARS	D *	Br	ARS F	-	BARS G		BARS H				BARS J				BARS	S K				BARS L			BARS M	
		1	SIZENO	D. LENGTH	SIZE	NO. LE	ENGTH	SIZE NO	LEN	WGTH SIZE	NO. LEN	GTH SIZE NO	. SPACING	LENGTH	H SIZE NO.	SPACING	a b	LENG	TH SIZE NO	SPACINO	G a	Ь	LENGTH	SIZE NO. S	SPACING	а Б	LENGT	H SIZE NO.	С	LENGTH
# 6 / ' - / ''	/ / " 4 ' -	3'' -	102	-	+ 63	4 /	' - 6"	104 17	7 4 '	- 7"+05	16 24'	- 6"+06 /8	/ ' - 5''	3'-9"	+67 28	//"	5'- 5" '- 6	6 - / / ''	+08					+09				+40 17	2'-8"	4'-10" 6
7 1'- 2"	/ / " 4 " -	10"			6	5 /	' - 6''	4 17	5 '	- 7" 4	18 24'	- 6" 4 19	/ ' - 4''	4'-4"	5 30	10"	6'-5"/'-7	' 8 ' - 0''										4 17	3'-2"	5'- 4" 7
8 / ' - 4"	//" 5 ' -	3"			6	5 /	' - 6''	4 17	6 '	- 7" 4	20 24 '	- 6" 4 28	/ / "	4'-9"	5 34	9" :	7'-5"/'-9	' 9 ' - 2''										4 17	3'-5"	5'-7"8
9 / ' - 7"	//"5"-	9"			6	7 /	' - 6''	4 17	7 /	- 7" 4	22 24 '	- 6" 4 34	9"	5'-3"	5 34	9" (8'-5"2'-1	' 10 ' - 6'	1									4 17	3'-8"	5'-10" 9
10 1'-7"	/ / / / 6 / -	3"			6	7 /	' - 6''	4 17	8 '	- 7" 4	24 24 '	- 6" 4 50	6"	5'-9"	5 38	8" :	9'-5"2'-1	' / / ' - 6'	'									4 17	4'-2"	6'-4"/0
// / - 8"	/ / / / 6 / -	8"			6	7 /	' - 6''	4 17	9 '	- 7" 4	26 24 '	- 6" 5 <i>43</i>	7 "	6'-2"	5 48	7"/	0'-5"2'-3	" / 2 ' - 8	11									4 17	4'-6"	6'-8"//
12 1 '-11"	/ ' - 0'' 7'	- / "			6	8 /	' - 6"	4 17	10'	- 6" 4	28 24 '	- 6" 5 38	8"	6'-7"	5 23	/ ' - / '' /	1'-5"2'-6	" / 3 ' - / /	5 2	2 / ' - / '	" 9 ' - 8"	2 ' - 6" / 2	' - 2"					4 17	4'-8"	6'-10"12
13 2' - 0"	/ ' - 0'' 7'	- 7"			6	9 1	' - 6"	4 / 7	7 / / /	- 6" 4	30 24 '	- 6" 5 50	6"	7'-/"	5 23	/ ' - / '' /	2'-5"2'-9	" 15' - 2	5 2	2 / ' - / '	" 9 ' - 0 "	2 ' - 9" / 1	' - 9''					4 17	5'-/"	7'-3"/3
14 2' - 1"	1'-0"8'	- / "			6	9 /	' - 6''	4 17	12'	- 6" 4	32 24 '	- 6" 6 43	7 ''	7'-7"	5 25	/ ' - 0'' /	3'-5"2'-1	" /6 ' - 4	5 2	4 / ' - 0'	" 9'- 0"	2 '-//"//	' - / / ''					4 17	5'-6"	7'-8"14
15 2' - 3"	1'-0"8'	- 7"	5 20	0 13' - 6"	6	10 1	' - 6"	4 17	13'	- 6" 4	34 24 '	- 6" 6 50	6"	8'- /"	5 20	1'-3"	3'-8"3'-/	' 6 ' - 9''	5 /:	9 / ' - 3'	" /2'- 2"	13'-/"/.	5'-3"	5 /9 /	' - 3'' 8	'-0"3"-1"	/ /	4 17	5'-10"	8'-0"15
16 2' - 6"	1'-0"9'	- 4"	6 17	7 14' - 6''	6	10 1	' - 6''	4 17	14'	- 6" 4	34 24 '	- 6" 7 50	6"	8'-10"	6 17	1'-6"	3'- 3"3'- 4	' 6 - 7 ''	6 /	6 1'-6'	" 3' - 2"	3'-4"6	' - 6''	6 16 1	' - 6" 9	' - 3" 3 ' - 4"	12'-7"	4 17	6 ' - 4''	8'-6"16
17 2' - 8"	1'-2"10	- 3"	6 / 9	9 15' - 4"	6	/ / /	' - 6''	4 17	15'	- 4" 4	38 24 '	- 6" 7 <i>43</i>	7 ''	9'-9"	6 /9		4'- 1"3'- 7	' 7 - 8 ''	6 /	8 1'- 4'	" 3' - 4"	3'-7"6	' - / / ''	6 /8 /	' - 4" 9	' - 3" 3 ' - 7"	12'-10"	4 17	7'-/"	9'-3"/7
18 3'-0"	/ ' - 2" / /	_ / ''	6 17	7 16'- 4"	6	12 1	' - 6''	4 17	16'	- 4" 4	42 24 '	- 6" 7 50	6"	10'-7"	7 17	/ ' - 6"	4'- 4"3'-//	' 8 ' - 3''	7 / 1	6 / ' - 6'	" 3' - 4"	3'-//'' 7	' - 3''	7 /6 /	' - 6'' 7	'-//''3'-//''	/ / ' - / 0 ''	4 17	7'-7"	9'-9"18
19 3' - 3"	1'-2"/2	· - 0''	6 / 9	9 17 ' - 4''	6	12 1	' - 6''	4 17	7 /7 /	- 4" 4	42 24 '	- 6" 8 50	6"	/ / ' - 6''	7 /9	/ ' - 4'' .	5'-2"4'-3	' 9 ' - 5"	7 /	8 / ' - 4'	" 4 ' - / / "	4'-3"9	' - 2"	7 /8 /	' - 4'' 8	'-//''4'- 3''	13'-2"	4 17	8'-3"	10'-5"19
20 3' - 6"	1'-2"12	' - 9"	6 17	7 18' - 4''	6	13 1	' - 6''	4 17	18'	- 4" 4	46 24 '	- 6" 8 60	5"	12'- 3"	8 17	1'-6"	4'- 4"4'- 6	8 -10"	8 /	6 1'- 6'	" 4 ' - / / "	4'-6"9	' - 5"	8 16 1	' - 6" 9	'-//''4'-6''	14'-5"	4 17	8'-9"	10'-11"20
21 3' - 9"	1'-5"/3	/_/_/	6 17	7	6	14 1	' - 6''	4 17	19'	- / '' 4	48 24 '	- 6" 8 50	6"	13'-5"	8 17	1'-6".	5'-8"4'-9	' /0 ' - 5'	8 / 1	6 1'- 6'	" 6'-/0"	4'-9"11	' - 7''	8 16 1	' - 6'' / /	''-10"4'- 9'	' 16 ' - 7 ''	4 17	9'-8"	11'-10"21
22 4' - 1"	/ ' - 5" / 4	-/0"	7 /7	7 20'- 1"	6	14 1	' - 6''	4 17	² 20 '	- / '' 4	50 24 '	- 6" 8 50	6"	14'-4"	9 17	1'-6".	5'-8"5'-2	1/0/-/0	9 / 1	6 1'- 6'	" 5' - 7"	5 ' - 2" / 0	' - 9''	9 16 1	' - 6" / 0)'-10"5'- 2'	' /6 ' - 0''	4 17	10'-3"	12'-5"22
23 4' - 4"	/ ' - 5" / 5	-/0"	7 /7	7 21'- 1"	6	15 1	' - 6''	4 17	21'	- / '' 4	54 24 '	- 6" 9 50	6"	15'-4"	9 17	1'-6"	6'-//"5'- 5	1/2/- 4/	9 /	6 1'- 6'	" 7'- 6"	5'-5"12	' - / / ''	9 16 1	' - 6" / 3	3'-6"5'-5'	' /8 ' - / / ''	4 17	/ / ' - 0''	13'-2"23
24 4' - 8"	/ ' - 5" / 6	-/0"	7 20	0 22'- 1"	6	16 1	' - 6''	4 17	7 22 '	- / '' 4	56 24'	- 6" 9 60	5"	16'-4"	9 20	1'-3"	6'-//"5'- 9	1/2/- 8/	9 /:	9 1'- 3'	" 7'- 7"	5'-9"/3	' - 4''	9 /9 /	' - 3'' / 3	3'-6"5'-9"	' 19 ' - 3''	4 17	11'-8"	13'-10"24
25 4'-11"	/ ' - 5" /8	/ '''	7 / 7	7 23'- 1"	6	16 1	' - 6''	4 17	23 '	- / '' 4	58 24 '	- 6" 0 50	6"	17'-7"	10 17	1'-6"	8'-6"6'-1	1/4/-7/	10 /1	6 1'- 6'	" 9'- 5"	6 ' - 1" 15	' - 6"	10 16 1	' - 6" / 5	5'-6"6'-1'	'21'-7"	4 17	12'-8"	14'-10"25
26 5' - 5"		-/0"	7 /9	9 23'-10"	6	17 /	' - 6"	4 17	23'	-/0"4	62 24'	- 6" 0 43	7 ''	18'-4"	10 19	1'-4":	9'-0"6'-7	' /5 ' - 7 '	10 10	8 / ' - 4'	" 9'- 5"	6 ' - 7'' 16	' - 0''	10 18 1	' - 4" /7	''- 6"6"- 7"	'24'- 1"	4 17	12'-11"	15'- 1"26
27 5'- 9"		- 9"	8 17	7 24'-10"	6	18 1	' - 6''	4 17	7 24 '	-/0"4	64 24 '	- 6" 10 50	6"	19'- 3"	// //	/ ' - 6" :	9'-6"7'-0	16'-6'	/ / / / !	6 / ' - 6'	" / 0 ' - 0 ''	171-0"1	' - 0"	11 16 1	' - 6" / 8	3'-0"7'-0'	' 25 ' - 0"	4 17	13'-6"	15'-8"27
28 6' - 2"	1'-8"20	7"	8 / 9	9 25'-10"	6	18 1	' - 6''	4 17	25 '	-/0"4	66 24'	- 6" 0 50	6" 8	20'- /"	// /9	/ ' - 4" /	0'-0"7'-5	" /7 ' - 5	// // //	8 / ' - 4'	" / 0 ' - 0 "	7 ' - 5" /	' - 5"	11 18 1	' - 4" / 8	3'-0"7'-5'	' 25 ' - 5"	4 17	13'-11"	16'-1"28
29 6' - 7"	1'-8"21	- 5"	8 20	0 26 ' - 10 ''	6	19 1	' - 6''	4 17	26 '	-/0"4	68 24'	- 6" 10 60	5" 2	20'-//"	11 20	/ ' - 3" /	0'-6"7'-10	" /8 ' - 4	" // /:	9 / ' - 3'	" / / ' - 6"	171-10"1:	- 4"	11 19 1	' - 3" / 9	9'-6"7'-10'	'27'-4"	4 17	14'-4"	16'-6"29
30 7'- /"	1'-8"22	- 0"	8 22	2 27 ' - 10''	6	20 1	' - 6"	4 17	27 '	-/0"4	72 24'	- 6"// 50	6" 2	2/'-6"	11 22	/ ' - 2" /	1'-0"8'-5	" / 9 ' - 5	" 1 2	/ / ' - 2'	'' / / ' - 6''	'8'-5"/:	' - / / ''	11 21 1	' - 2" / 9	9'-6"8'-5'	27 '-//"	4 17	14'-5"	16'-7"30

		QUANTI	TIES	
11	CONCRETE / 25' UNIT	STEEL / 25' UNIT	CONCRETE PER LIN.FT.	STEEL PER LIN.FT.
Н	C.Y.	LBS.	C.Y.	LBS.
#6/	7.51	624	0.30	24
7	8.86	735	0.35	29
8	10.10	890	0.40	35
9	11.44	1019	0.46	40
10	12.81	1225	0.5/	49
/ /	14.13	1536	0.57	6 /
12	15.95	1547	0.64	6 /
13	19.29	1727	0.77	69
14	20.96	1986	0.84	79
15	22.67	2374	0.9/	94
16	24.63	27 39	0.99	109
17	28 . 1 4	2954	1.13	118
18	30.36	3422	1.21	136
19	32.70	4246	1.31	169
20	34.89	4963	1.40	198
21	40.42	5/30	1.62	205
22	43.06	5911	1.72	236
23	45.83	7090	1.83	283
24	48.63	856 /	1.95	342
25	51.78	9620	2.07	384
26	58.28	10191	2.33	407
27	61.27	11877	2.45	475
28	64.15	13082	2.57	523
29	67.06	15139	2.68	605
30	69.61	16680	2.78	667





To accommodate the Variable Height of a wall Unit, vertical Bars may be field cut to fit and the number of horizontal Bars G required by the highest wall dimension within a 25' Unit shall be equally spaced at each end of the Unit.



NOTE• Bars M are paired with Bars F and Bars A are paired with Bars J. Bars F and M are No.4 Bars. Bars J are as shown.

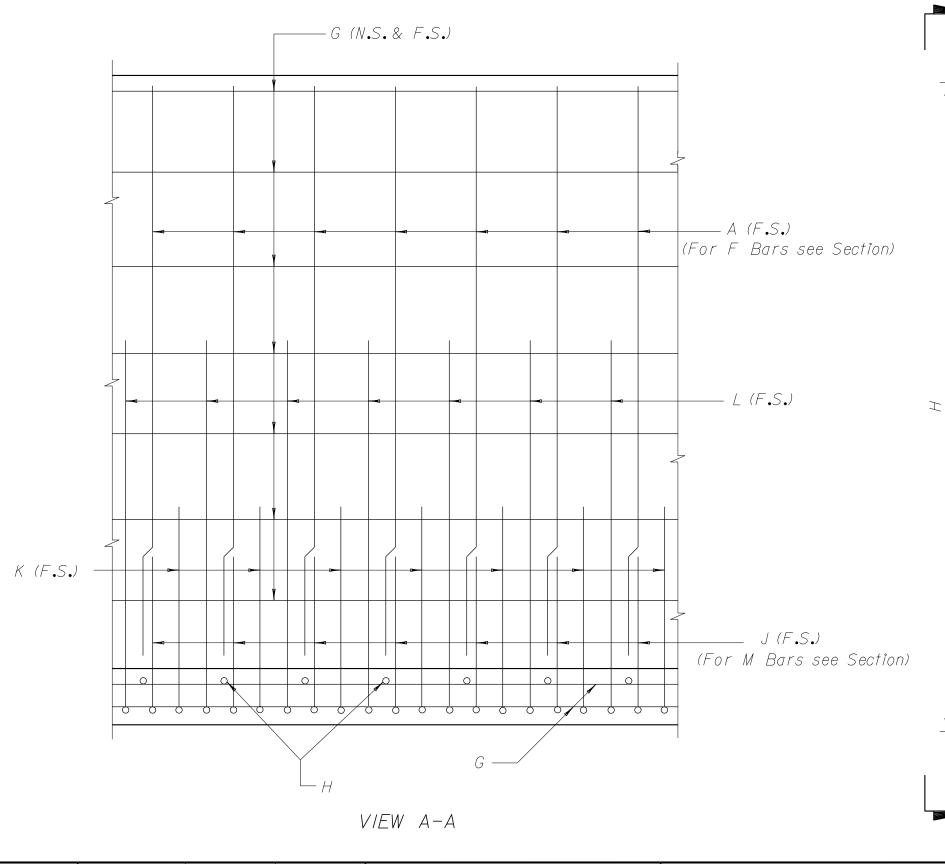
* NOTE: For placement details for Bars D see Standard Index No. 800.

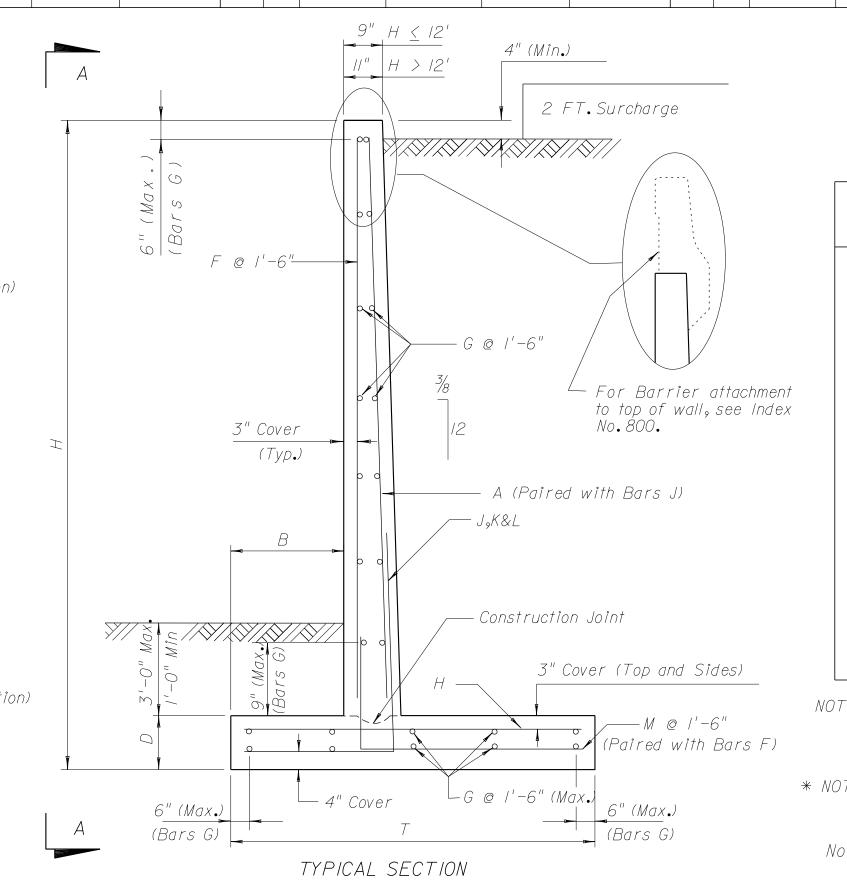
	REV	ISIONS		NAMES DATES	ENGINEER OF RECORD: LOGO:	SEAL :	<u>⇒</u> _=			SHEET TITLE:	DRAWING NO.
DATE	BY DESCRIPTION	DATE BY DESCRIPTION	DRAWN BY	M.1. 3/87					T OF TRANSPORTATION	CASE II (3.0 KIPS/SQ.FT.MAX.BEARING PRESSURE)) , , , ,
		90R	CHECKED BY	M.P. 3/87	STRUCTURES DESIGN OFFICE			STRUCTURES	DESIGN OFFICE	6 FT. TO 30 FT. HEIGHT	1011
			DESIGNED BY		605 Suwannee Street, MS 33		ROAD NO.	OOUNTY	DD0 IF 0T NO	PROJECT NAME:	INDEX NO.
			CHECKED BY		Tallahassee, Florida 32399-0450		RUAD NO.	COUNTY	PROJECT NO.		807
			APPROVED BY	A.G.M.					•		007

FED. ROAD DIV. NO.	STATE	PROJECT NO.	FISCA YEAR	_ SHEET NO.
3	FLA.		•	

											RETAIN	VING WALL	L DATA									
WALL DIMENSIONS												RE IN	NFORCING	STEEL SC	`HEDUL	LE						
H B D T	BARS A	BA	ARS D*	BARS F		BARS G		BARS H				BARS J					Ε	BARS K		BARS L		BARS M
	SIZE NO. LENGTH	SIZE NO.	. LENGTH S	SIZE NO. LENG	STH SIZE	NO. LENGTH	SIZE NO.	SPACING	LENGTH	H SIZE NO.	SPACING	а	Ь	LENGTH	SIZE	NO. SPAC	CING	а	b LENGTH SIZE NO. SPACIN	g a b LENGTH	SIZE NO	C LENGTH
#621'-1" 11" 4'-3"	+ / 3	+64 4				16 24' - 6"			3'-9"	+ 58 28	/ / "	5'-5"	1'-6"6	5 ' - / / ''	+19				+20		+21 17	2'-8"4'-10"6
7 1 ' - 2" 11" 4 ' - 10"		6 5	5 / ' - 6''	4 17 5 ' -	7" 4	18 24' - 6"	4 19		4'-4"	5 30	10"	6'-5"	1 ' - 7'' 8	3 ' - 0''							4 17	3'-2"5'-4"7
8 1 ' - 4" 11" 5 ' - 3"		6 5	5 / ' - 6''	4 17 6 ' -	7" 4	20 24' - 6"	4 28	/ / ''	4'-9"	5 34	9"	7'-5"	1 ' - 9'' 5	9 ' - 2"							4 17	3'-5" 5'-7" 8
9 1 ' - 7" 11" 5 ' - 9"		6 6	1 ' - 6"	4 17 7 ' -	- 7" 4	22 24' - 6"	4 34	9"	5'-3"	5 34	9"	8'-5"	2 ' - / '' / (0'-6"							4 17	3'-8" 5'-10" 9
10 1'- 7" 11" 6 '- 3"		6 7	/ - 6"	4 17 8 ' -	- 7" 4	24 24 ' - 6 ''	4 50	6"	5'-9"	5 38	8"	9'-5"	2 ' - / '' /	/ ' - 6"							4 17	4'-2" 6'-4" 0
		6 7	/ - 6"	4 17 9'-	7" 4	26 24 ' - 6 ''	5 43	7 ''	6'-2"	5 48	7 "	10'-5"	2'-3"/	2'-8"							4 17	4'-6" 6'-8"
/2 / ' - / / " / ' - 0" 7 ' - / "		6 8	7 - 6"	4 17 10 ' -	6" 4	28 24' - 6"	5 38	8"	6'-7"	5 23	/ - / "	/ / ' - 5''	2'-6"1	3'-//"	5 2	22 1 ' -	1" 9'-	8"2"	- 6" /2 ' - 2"		4 17	4'-8" 6'-10" 2
/3 2' - 0" / ' - 0" 7' - 7"		6 9	1 ' - 6"	4 17 11 ' -	6" 4	30 24' - 6"	5 50	6"	7'-/"	5 23	/ ' - / ''	/2'-5"	2'-9"1	5'-2"	5 2	22 1 ' -	1" 9'-	0"2"	- 9" / / ' - 9"		4 17	5'- '' 7'- 3" 3
		6 9) / ' - 6''	4 17 12'-	6" 4	32 24' - 6"	6 43	7"	7'-7"	5 25	/ ' - 0''	/3'-5"	2'-//''/	6'-4"	5 2	24 1 ' -	0" 9'-	0"2"	-//"//"//"		4 17	5'-6" 7'-8" 4
15 2' - 3" 1' - 0" 8' - 7"	5 20 13' - 6"	6 10	/ ' - 6''	4 17 13 ' -	6" 4	34 24' - 6"	6 50	6"	8'- /"	5 20	/ ' - 3''	3'-8".	3 ' - 1 '' 6	5 - 9	5	19 1 ' -	3" /2'-	- 2" 3	- /" /5 ' - 3" 5 /9 / ' - 3	8'-0"3 - " - "	4 17	5'-10" 8'- 0" 15
16 2' - 5" 1' - 0" 9' - 1"	6 17 14' - 6''	6 10	/ ' - 6''	4 17 14 ' -	6" 4	34 24' - 6"	7 50	6"	8'-7"	6 17	/ ' - 6 ''	3'-3".	3'-3"6	6''- 6''	6	16 1'-	6" 3'-	2" 3 '	- 3" 6 ' - 5" 6 16 1' - 6	' 9' - 3" 3 ' - 3" 12 ' - 6"	4 17	6'-2"8'-4"16
	6 19 15 ' - 4"	6 11	/ ' - 6''	4 17 15 ' -	- 4" 4	38 24' - 6"	7 43	7"	9'- /"	6 19	/ ' - 4''	4'- /".	3 ' - 4'' 7	' - 5"	6	18 1'-	4" 3'-	4"3"	- 4" 6 - 8" 6 18 1 - 4	9'-3"3 -4" 2'-7"	4 17	6'-8"8'-10"17
	' 6 17 16 ' - 4''	6 12	7 - 6"	4 17 16 ' -	- 4" 4	40 24' - 6"	7 50	6"	9'-6"	7 17	/ ' - 6 ''	4'-4".	3 ' - 7'' 7	' - / / ''	7	16 1 '-	6" 3'-	4"3"	- 7" 6 '-//" 7 /6 / ' - 6	7'-11"3 '- 7"11 '- 6"	4 17	6'-10" 9'-0" 8
/9 2' - 9" ' - 2" 0' - 7"	' 6 19 17' - 4"	6 12	2 / ' - 6"	4 17 17 ' -	- 4" 4	40 24' - 6"	8 50	6"	10'-1"	7 19	/ - 4"	5'-2".	3 ' - 9" &	3 / - / / "	7	18 1 ' -	4" 4"-,	/ / '' 3 '	- 9" 8 ' - 8" 7 18 1 ' - 4	8'-11"3'- 9"12'- 8"	4 17	7 7'-4" 9'-6" 9
20 2'-//" / '- 2" / / '- /"	' 6 17 18' - 4"	6 13	8 / ' - 6''	4 17 18 ' -	- 4" 4	44 24' - 6"	8 60	5"	10'-7"	8 17	/ ' - 6"	4'-4".	3 ' - / / '' 8	3 - 3"	8	16 1 '-	6" 4'-1	11"3"	-//" 8 '-/0" 8 /6 / '- 6	9'-11"3'-11"13'-10"	4 17	7'-8" 9'-10"20
21 3'-1" '-5" '-9"	' 6 17 19'- 1"	6 14	!	4 17 19 ' -	- / '' 4	46 24' - 6"	8 50	6"	/ / ' - 3''	' 8 17	/ ' - 6"	5'-8"	4 ' - / '' 5	9 ' - 9 ''	8	16 1 '-	6" 6'-1	10"4	- '' 0 ' - '' 8 16 ' - 6	'///'-/0''4'- /''/5'-//''	4 17	8'-2" 10'-4"2
22 3' - 4" ' - 5" 2' - 5"	7 17 20 ' - 1 ''	6 14	!	4 17 20 ' -	- / '' 4	46 24' - 6"	8 50	6"	/ / ' - / / ''	9 17	/ ' - 6"	5'-8"	4 ' - 5" / (0 ' - / ''	9	16 1 '-	6" 5'-	7"4"	- 5" 10 ' - 0" 9 16 1 ' - 6	' 0 ' - 0 '' 4 ' - 5 '' 5 ' - 3 ''	4 17	8'-7" 10'-9"22
23 3' - 6" ' - 5" 3' - 3"	7 17 21 ' - 1"	6 15	5 / ' - 6''	4 17 21 ' -	- / '' 4	50 24' - 6"	9 50	6"	12'-9"	9 17	/ ' - 6 ''	6'-//"	4 ' - 7'' /	/ ' - 6"	9	16 1 '-	6" 7'-	6"4"	- 7" 2 ' - 1" 9 16 1 ' - 6	' 3 ' - 6 '' 4 ' - 7 '' 8 ' - ''	4 17	9'-3" -5"23
24 3'-10" '- 5" 3'-11"	7 20 22'- 1"	6 16	1 ' - 6"	4 17 22 ' -	- / '' 4	52 24' - 6"	9 60	5"	/3'-5"	9 20	/ ' - 3''	6 ' - / / ''	4 ' - / / '' /	/	9	19 1 ' -	3" 7'-	6"4"	-//"/2'-5" 9 /9 /'- 3	' 3' - 6" 4' - " 8' - 5"	4 17	9'-7" -9"24
25 4'- 0" '- 5" 4'- 1"	' 7 17 23 ' - 1 ''	6 16	1'-6"	4 17 23 ' -	- / " 4	54 24' - 6"	9 50	6"	14'-5"	' /0 /7	/ ' - 6"	8'-6".	5'-2"/.	3 ' - 8''	10	16 1'-	6" 9'-	5"5"	- 2" 14 ' - 7" 10 16 1 ' - 6		4 17	10'-5" 12'-7"25
26 4'-5" '-8" 5'-8"	' 7 /9 23'-10"	6 17	1'-6"	4 17 23 ' -	10"4	58 24' - 6"	9 60	5"	15'-2"	' /0 /9	/ - 4"	9'-0".	5 ' - 7'' /	4 ' - 7''	10	18 1 '-	4" 9'-	5"5"	- 7" /5 ' - 0" /0 /8 / ' - 4	1/5'-6"5'-7"2 '- "	4 17	7 10'- 9" 12'-11" 26
27 4'- 9" '- 8" 6'- 5"	8 17 24'-10"	6 /8	7 / ' - 6''	4 17 24 ' -	0" 4	60 24' - 6"	10 50	6"	15'-11"	' // / /7	/ ' - 6 ''	9'-6"	6'-0"/:	5 ' - 6''	/ /	16 1'-	6" /0'-	0"6	- 0" 16 ' - 0" 11 16 1 ' - 6		4 17	11'-2" 3'-4"27
28 5'- 1" 1'- 8" 17'- 3"	' 8	6 18	1'-6"	4 17 25 ' -	0" 4	62 24' - 6"	10 50	6"	16'-9"	' // /9	/ - 4"	10'-0"	6'-4"/	6'-4"	/ /	18 1'-	4" /0'-	0''6	- 4" 6 ' - 4"		4 17	11'-8" 3'-10"28
29 5' - 5" ' - 8" 7' - 1"	' 8 20 26 ' - 10 ''	6 19	1'-6"	4 17 26 ' -	0" 4	64 24' - 6"	/// 50	6"	17'-5"	' // 20	/ ' - 3''	10'-6"	6 ' - 8" /	7'-2"	/ /	19 1'-	3" / / ' -	6"6	- 8" 8 ' - 2" 3		4 17	12'-0"14'-2"29
30 5'-//" / '- 8" / 8' - 8"	8 22 27 ' - 10 "	6 20	1'-6"	4 17 27 ' -	-10" 4	68 24' - 6"	/// 50	6"	18'-2"	'	1'-2"	/ / ' - 0''	7'-3"/	8'-3"	//	2///-	2" / / ' -	6"7	- 3" 18' - 9" 11 21 1' - 2	19'-6"7'-3"26'-9"	4 17	12'-3" 4'-5"30

		QUANTI	TIES	
	CONCRETE/ 25' UNIT	STEEL / 25' UNIT	CONCRETE PER LIN.FT.	STEEL PER LIN•FT•
H	C.Y.	LBS.	C.Y.	LBS.
#82	7.51	624	0.30	24
7	8.86	735	0.35	29
8	10.10	890	0.40	35
9	11.44	1017	0.46	40
10	12.81	1225	0.5/	49
/ /	14.13	1536	0.57	61
12	15.95	1547	0.64	61
13	19.29	1727	0.77	69
14	20.96	1986	0.84	79
15	22.67	2374	0.97	94
16	24.40	2706	0.98	108
17	27 .42	2889	1.10	115
18	29.19	3234	1.17	129
19	31.17	3958	1.25	158
20	33.09	4575	1.32	183
21	37 .58	4696	1.50	187
22	39.89	5379	1.60	215
23	42.44	6427	1.70	257
24	44.80	7707	1.79	308
25	47 .63	8004	1.91	320
26	53.40	9411	2.14	376
27	56.12	10807	2.24	432
28	59.00	11957	2.36	478
29	61.66	13914	2.47	556
30	64.47	15308	2.58	612

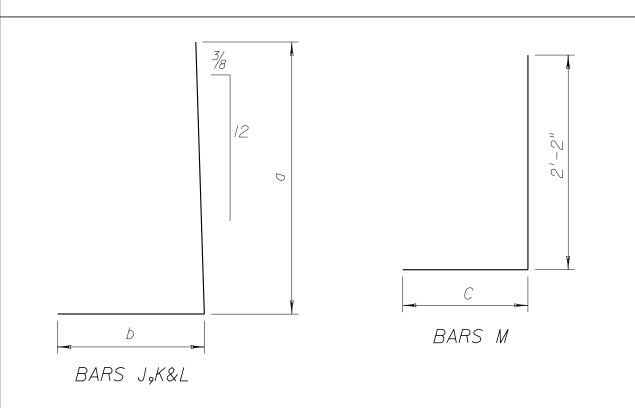




NOTE.

To accommodate the Variable Height of a wall Unit, vertical Bars may be field cut to fit and the number of horizontal Bars G required by the highest wall dimension within a 25' Unit shall be equally spaced at each end of the Unit.

BENDING DIAGRAM



NOTE: All bar dimensions are out to out.

NOTE• Bars M are paired with Bars F and Bars A are paired with Bars J. Bars F and M are No.4 Bars. Bars J are as shown.

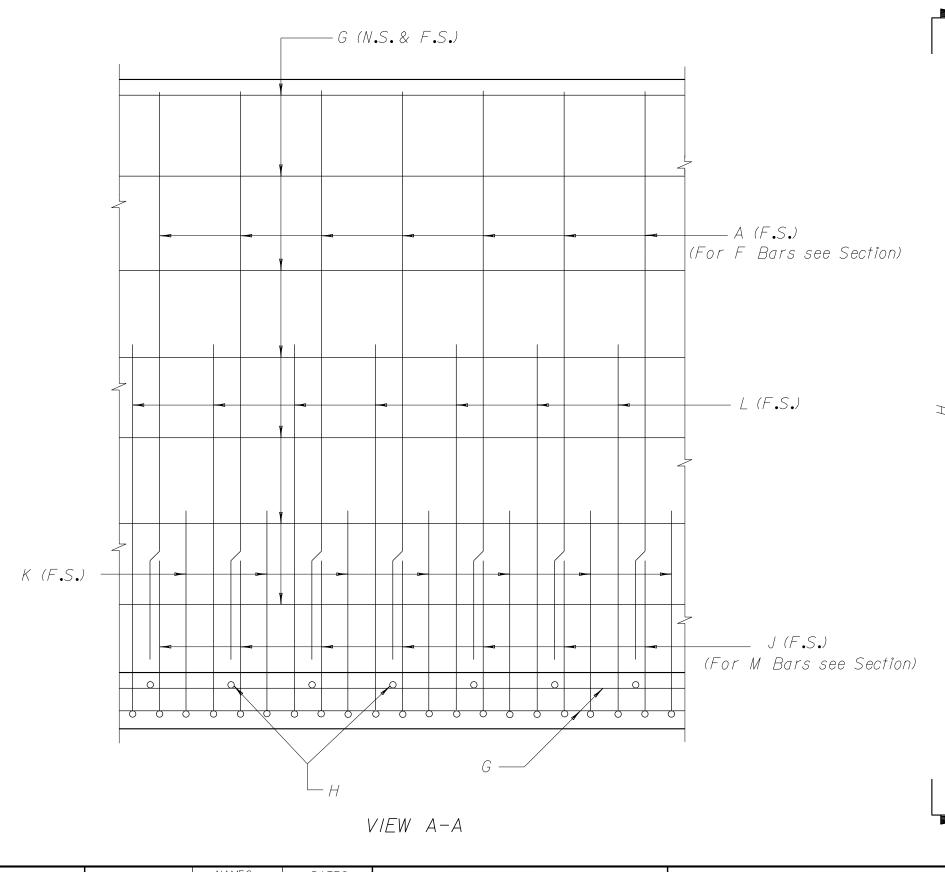
* NOTE•For placement details for Bars D see Standard Index No.800.

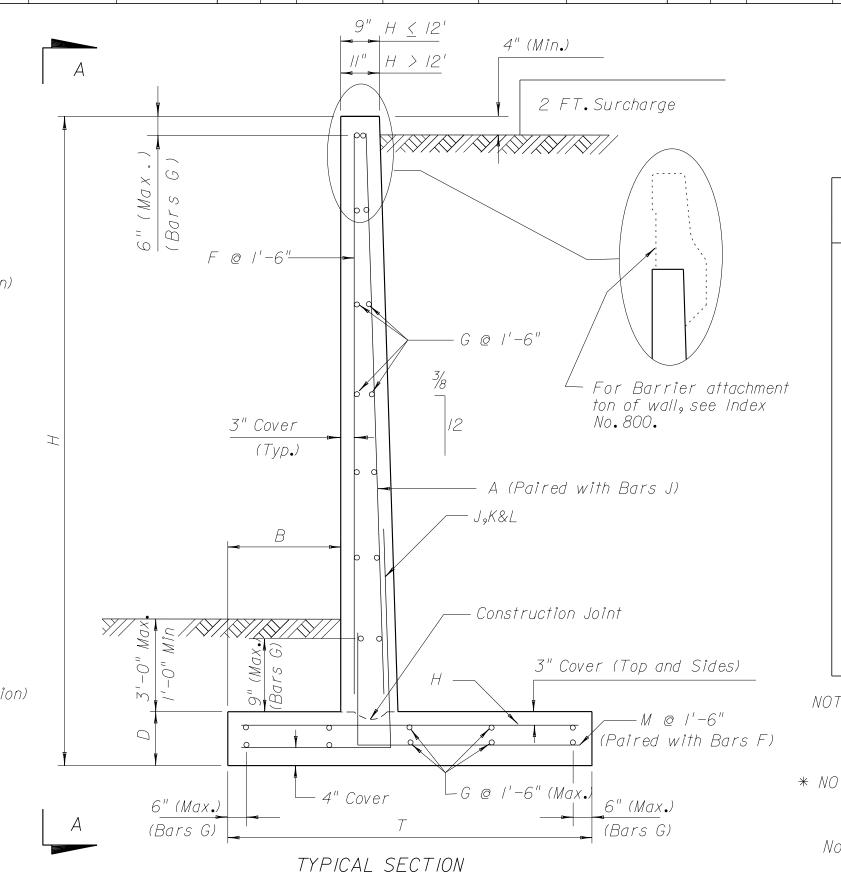
DATE BY DESCRIPTION DATE BY DESCRIPTION DRAWN BY CHECKED BY	NAMES DATES M./. 3/87 M.P. 3/87 STRUCTURES DESIGN OFFICE	FLORIDA DEPARTMENT OF TRANSPORTATION STRUCTURES DESIGN OFFICE	CASE II (4.0 KIPS/SQ.FT.MAX.BEARING PRESSURE) 6 FT.TO 30 FT.HEIGHT	DRAWING NO.
DESIGNED BY CHECKED BY APPROVED BY	605 Suwannee Street, MS 33 Tallahassee, Florida 32399-0450	ROAD NO. COUNTY PROJECT NO.	PROJECT NAME:	INDEX NO. 808

ED. ROAD DIV. NO.	STATE	PROJECT NO.	FISCA YEAR	_ SHEET NO∙
3	FLA.			

								R	ETAINING WALL DATA									
WALL DIMENSIONS									REINFORCING	STEEL SCHEL	DULE							
H B D T	BAF	PS A BA	ARS D*	BARS F	E	BARS G	BARS H		BARS J			BARS K			BARS L			BARS M
	SIZE NO.	LENGTH SIZE NO	. LENGTH S	IZE NO. LENG	STH SIZE N	O. LENGTH SIZE NO.	SPACING LENGTH	SIZE NO. SP	ACING a b	LENGTH SIZ	E NO. SPACING	a b	LENGTH	SIZE NO. SPACING	a b	LENGTH	SIZE NO.	C LENGTH
#6 '- " 4 '-3"	102	+63 4	1'-6"+	04 17 4'-	7"+05 /	6 24' - 6" + 06 18	1'-5" 3'-9"	+67 28	11" 5' - 5" 1 ' - 6" 6	' - / / '' 	8		_	109			140 17	2'-8" 4'-10" 6
7 1' - 2" 11" 4 ' - 10"		6 5	/ ' - 6"	4 17 5 ' -	7" 4 /	8 24' - 6" 4 19		5 30	10" 6' - 5" 1 ' - 7" 8	' - 0''							4 17	3'-2" 5'-4" 7
8 1 ' - 4" 1 1" 5 ' - 3"		6 5	/ - 6"	4 17 6 ' -	7" 4 2	0 24' - 6" 4 28	11" 4'- 9"	5 34	9" 7' - 5" ' - 9" 9	' - 2"							4 17	3'-5" 5'-7" 8
9 1 ' - 7" 11" 5 ' - 9"		6 6	/ - 6"	4 17 7 ' -	7" 4 2	2 24' - 6" 4 34	9" 5'- 3"	5 34	9" 8' - 5" 2 ' - 1" 10	' - 6''							4 17	3'-8" 5'-10" 9
10 1' - 7" 11" 6 - 3"		6 7	/ ' - 6''	4 17 8'-	7" 4 2	4 24' - 6" 4 50	6" 5'- 9"	5 38	8" 9' - 5" 2 ' - 1" 11	' - 6''							4 17	4'-2" 6'-4"10
		6 7	/ ' - 6 ''	4 17 9'-	7" 4 2	6 24' - 6" 5 43	7" 6'- 2"	5 48	7" 0' - 5" 2' - 3" 2	' - 8''							4 17	4'-6" 6'-8"/
12 1 ' - 1 1 ' - 0 '' 7 ' - 1 ''		6 8	/ / - 6"	4 17 10 ' -	6" 4 2	8 24' - 6" 5 38	8" 6'-7"	5 23 1 '	- /" / / ' - 5" 2 ' - 6" /.	5'-//" 5	22 1 ' - 1 ''	9'-8"2'-6"1.	2'-2"				4 17	4'-8"6'-10"12
13 2'- 0" 1'- 0" 7'- 7"		6 9	/ / - 6"	4 17 11 ' -	6" 4 3	0 24' - 6" 5 50	6" 7'- 1"	5 23 1 '	- 4" 2'- 5" 2'- 9" :	5 - 2" 5	22 1 ' - 1 ''	9'-0"2'-9"1	/ ' - 9''				4 17	5'-1"7'-3"/3
		6 9	/ - 6"	4 17 12'-	6" 4 3	2 24' - 6" 6 43	7" 7'- 7"	5 25 1 '	- 3" 3' - 5" 2' - " 6	5'-4" 5	24 1 ' - 0 ''	9'-0"2'-11"1	/				4 17	5'-6"7'-8"14
15 2' - 3" 1' - 0" 8' - 7"	5 20	13'-6" 6 10	/ - 6"	4 17 13'-	6" 4 3	4 24 ' - 6 '' 6 50	6" 8'- 1"	5 20 1 '	- 3" 3' - 8" 3 ' - 1" 6	' - 9'' 5		2'-2"3'-1"1	5'-3"	5 19 1 ' - 3''	8'-0"3'-1"1	/ - / 11	4 17	5'-10" 8'- 0" 15
16 2'- 5" 1'- 0" 9'- 1"	6 17	14'-6" 6 10	/ - 6"	4 17 14'-	6" 4 3	4 24' - 6" 7 50	6" 8'-7"	6 17 1 '	- 6" 3' - 3" 3 ' - 3" 6	' - 6'' 6	16 1' - 6"	3'-2"3'-3"6	5 - 5	6 16 1 ' - 6 ''	9'-3"3'-3"/	2'-6"	4 17	6'-2" 8'-4" 16
	6 19	15'-4" 6 1	/ ' - 6''	4 17 15 ' -	4" 4 3	8 24' - 6" 7 43	7" 9'- 1"	6 /9 / '	- 4" 4'- 1" 3 '- 4" 7	' - 5" 6	18 1 ' - 4"	3'- 4" 3 '- 4" 6	5 - 8	6 18 1 ' - 4''	9'-3"3'-4"/	2'-7"	4 17	6'-8"8'-10"17
18 2'-8" 1'-2" 0'-0"	6 17	16'-4" 6 12	7 - 6"	4 17 16 ' -	4" 4 4	0 24' - 6" 7 50	6" 9'-6"	7 17 1 '	- 6" 4' - 4" 3 ' - 7" 7	' - / / '' 7	16 1'- 6"	3'- 4"3'- 7" 6	5 - / / "	7 16 1 ' - 6 ''	7'-//'3'-7"/	/ ' - 6''	4 17	6'-10" 9'- 0" 18
19 2'- 9" 1'- 2" 0'- 7"	6 19	17'-4" 6 12	2 / ' - 6 ''	4 17 17 ' -	4" 4 4	0 24' - 6" 8 50	6" 0'- "	7 19 1 '	- 4" 5'- 2" 3'- 9" 8	' - / / '' 7	/8 / ' - 4''	4'-11"3'- 9" 8	8 ' - 8 ''	7 18 1 ' - 4''	8'-//''3''- 9"/	2'-8"	4 17	7'-4"9'-6"19
20 2'-11" 1'- 2" 1'- 1"	6 17	18' - 4" 6 13	/ / - 6"	4 17 18'-	4" 4 4	4 24' - 6" 8 60	5" /0'-7"	8 17 1 '	- 6" 4' - 4" 3 ' - 1 1 " 8	' - 3" 8	16 1'- 6"	4'-11"3'-11" &	8 ' - / 0 ''	8 16 1 ' - 6 ''	9'-//'3'-//''/	3'-/0"	4 17	7'-8"9'-10"20
21 3'-0" 1'-5" 1'-5"	6 17	19'- 1" 6 14	/ - 6"	4 17 19 ' -	- '' 4 4	6 24' - 6" 8 50	6" 0'-//"	8 17 1 '	- 6" 5' - 8" 4 ' - 0" 9	' - 8" 8	16 1'- 6"	6'-10"4'- 0"1	0'-10"	8 16 1 ' - 6 ''	// '-/0"4 '- 0"	15'-10''	4 17	7'-11" 10'- 1"21
22 3'- 2" '- 5" '- 10"	7 17	20'-1" 6 14	/ - 6"	4 17 20 ' -	- '' 4 4	6 24' - 6" 8 50	6" // - 4"	9 17 1 '	- 6" 5' - 8" 4 ' - 3" 9	' - / / '' 9	16 1'- 6"	5'-7"4'-3" 9	9 - / 0 ''	9 16 1 ' - 6 ''	10'-10"4'- 3",	/5'-/"	4 17	8'-2" 10'-4"22
23 3' - 3" 1' - 5" 2' - 5"	7 17	21'-1" 6 15	/ ' - 6"	4 17 21 ' -	- '' 4 4	8 24' - 6" 9 50	6" //'-//"	9 17 1 '	- 6" 6'-//"4'- 4"//	' - 3'' 9	16 1 ' - 6"	7'-6"4"-4"1	/	9 16 1 ' - 6 ''	/3'-6"4'-4",	/7'-/0"	4 17	8'-8" 10'-10" 23
24 3'-6" 1'-5" 2'-10"	7 20	22' - 1" 6 16	/ - 6"	4 17 22 ' -	- 1" 4 5	2 24 ' - 6 '' 9 60	5" 2'- 4"	9 20 1 '	- 3" 6'-//"4'- 7"//	' - 6" 9	19 1 - 3"	7'-6"4"-7"1.	2 ' - / ''	9 20 1' - 3"	3'-6"4'-7"	/8'-/"	4 17	8'-10" 11'- 0"24
25 3' - 6" ' - 5" 3' - 5"	7 17	23' - 1" 6 16	/ - 6"	4 17 23 ' -	1" 4 5	2 24' - 6" 10 50	6" 2'-11"	10 17 1'	- 6" 8' - 6" 4 ' - 8" / 3	' - 2" 10	16 1 - 6"	9'-5"4'-8"1	4 ' - / ''	10 16 1 ' - 6 ''	15'-6"4'-8"2	20'- 2"	4 17	9'-5" -7"25
26 3'-10" 1'- 8" 3'- 9"	7 19	23'-10" 6 17	/ ' - 6"	4 17 23 ' -	10" 4 5	4 24'- 6"10 43	7" /3'- 3"	10 19 1'	- 4" 9'- 0"5'- 0"14	' - 0" / 0	18 1'-4"	9'-5"5'-0"1	4 ' - 5''	10 18 1 ' - 4''	15'-6"5'-0"2	20'-6"	4 17	9'-5" -7"26
27 4'- 1" 1'- 8" 14'- 6"	8 17	24 '-10" 6 18	/ - 6"	4 17 24 ' -	10" 4 5	8 24' - 6" 10 50	6" 4' - 0"	// // // //	- 6" 9' - 6" 5 ' - 4" 14	'-10"	16 1'- 6"/	0'-0"5'-4"1	5 - 4"	// // // // // // // // // // // // //	18'-0"5'-4"2	23 ' - 4"	4 17	9'-11" 2'- 1" 27
28 4' - 5" ' - 8" 5' - 3"	8 19	25'-10" 6 18	/ / - 6"	4 17 25'-	10" 4 5	8 24' - 6" 10 50	6" 4' - 8"	11 19 1'	- 4" 10' - 0" 5' - 8" 1:	· - 8'' //	18 / ' - 4" /	0'-0"5'-8"/	5'-8"	// /8 / ' - 4"	18'-0"5'-8"2	23'-8"	4 17	10'- 4" 2'- 6" 28
29 4'- 9" '- 8" 5'- "	8 20	26'-10" 6 19	/ / - 6"	4 17 26 ' -	10" 4 6	2 24' - 6" 1 50	6" 5' - 5"	11 20 1'	- 4" 10' - 6" 6' - 0" 16	'-6"	19 1' - 3" /	1'-6"6'-0"1	7'-6"	// /8 / ' - 4"	19'-6"6'-0"2	25' - 6"	4 17	10'- 8" 12'-10" 29
30 5'- 2" '- 8" 6'- 8"	8 22	27'-10" 6 20	/ - 6"	4 17 27 ' -	10" 4 6	4 24' - 6" 1 50	6" 6' - 2"	11 22 1'	- 2" / / ' - 0" 6 ' - 6" / 7	' - 6"	21 1'- 2" 1	1'-6"6'-6"1	8'-0"	11 21 1'- 2"	19'-6"6'-6"2	26'-0"	4 17	- 0" 3" - 2" 30

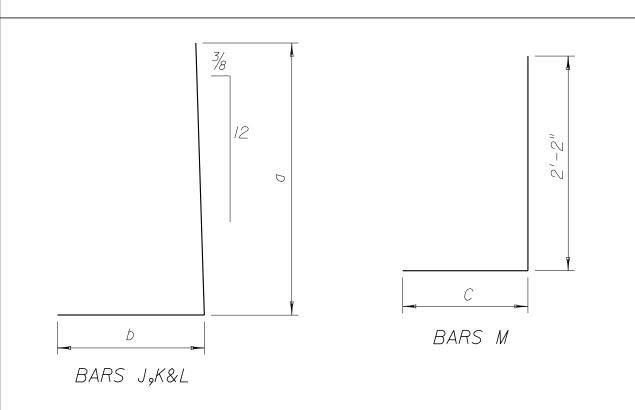
		QUANTI	TIES	
Ш	CONCRETE / 25' UNIT	STEEL / 25' UNIT	CONCRETE PER LIN,FT.	STEEL PER LIN.FT.
Н	C.Y.	LBS.	C.Y.	LBS.
#6/	7.51	624	0.30	24
7	8.86	735	0.35	29
8	10.10	890	0.40	35
9	11.44	1017	0.46	40
10	12.81	1225	0.5/	49
/ /	14.13	1536	0.57	6 /
12	15.95	1547	0.64	6 /
13	19.29	1727	0.77	69
14	20.96	1986	0.84	79
15	22.67	2374	0.97	94
16	24.40	2706	0.98	108
17	27 .42	2889	1.10	115
18	29.19	3234	1.17	129
19	31.17	3958	1.25	158
20	33.09	4575	1.32	183
21	37 .15	4641	1.49	185
22	39.12	5269	1.56	210
23	41.35	6204	1.65	248
24	43.38	7473	1.74	298
25	45.66	8/83	1.83	327
26	50.44	8550	2.02	342
27	53.16	10175	2.13	407
28	55.92	11234	2.24	449
29	58.57	12994	2.34	5/9
30	61.38	14442	2.46	577





To accommodate the Variable Height of a wall Unit, vertical Bars may be field cut to fit and the number of horizontal Bars G required by the highest wall dimension within a 25' Unit shall be equally spaced at each end of the Unit.

BENDING DIAGRAM



NOTE: All bar dimensions are out to out.

NOTE• Bars M are paired with Bars F and Bars A are paired with Bars J. Bars F and M are No.4 Bars. Bars J are as shown.

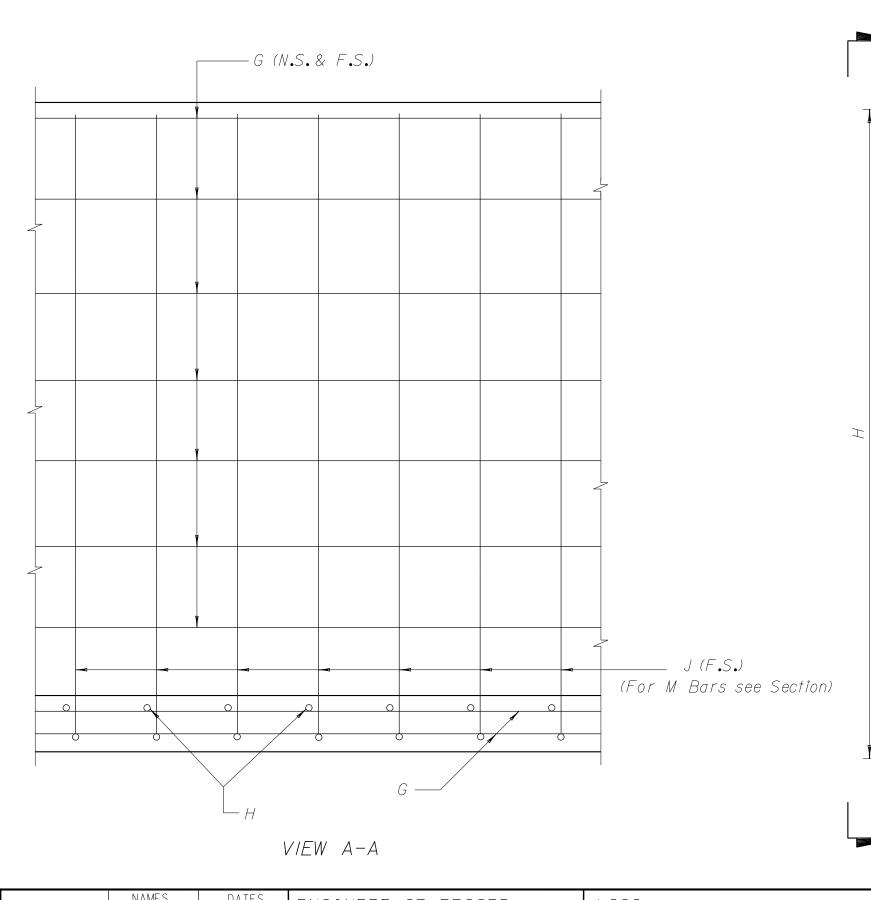
* NOTE•For placement details for Bars D see Standard Index No.800.

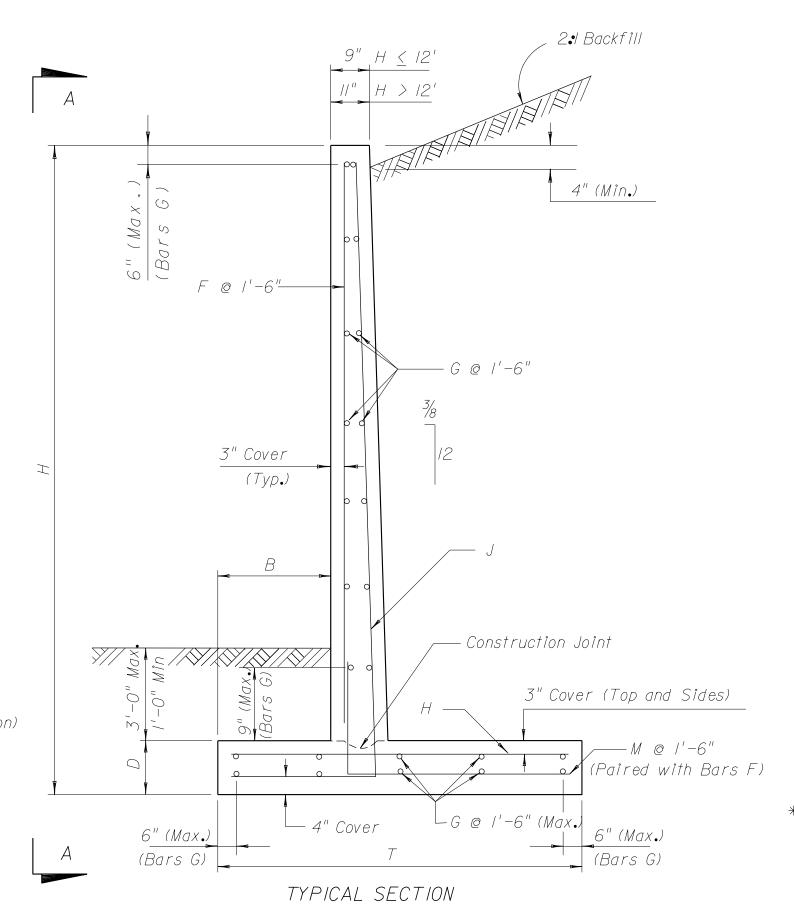
REVISIONS DATE BY DESCRIPTION DESCRIPTION	NAMES DATES	ENGINEER OF RECORD:	LOGO: SEAL:	FLORIDA DEPARTMENT OF TRANSPORTATION	SHEET TITLE: CASE II (5.0 & 6.0 KIPS/SQ.FT.MAX.BEARING	DRAWING NO.
DATE BY DESCRIPTION DATE BY DESCRIPTION 90R	CHECKED BY M.P. 3/87	STRUCTURES DESIGN OFFICE		STRUCTURES DESIGN OFFICE		1 of 1
	DESIGNED BY	605 Suwannee Street, MS 33	·	= V =	PROJECT NAME:	INDEX NO.
	CHECKED BY .	Tallahassee, Florida 32399-0450		ROAD NO. COUNTY PROJECT NO.		809
	APPROVED BY A.G.M.					009

FED. ROAD DIV. NO.	STATE	PROJECT NO.	FISCA YEAR	_ SHEET NO.	
3	FLA.	·			

												RETAIN	ING WALL DATA								
WALL	DIME	NS/ONS											REINFORCING	STEEL SC	HEDULE						
H B				BARS A		BARS D*	BAI	RS F	BARS G	BARS H	1		BARS J			BARS K		BARS L		BARS M	Ш
			SIZE	NO. LENGTH	SIZE	NO. LENGTH	H SIZE NO.	LENGTH	SIZE NO. LENGTH SIZE NO	SPACING	LENGTA	H SIZE NO. SPACING	а Б	LENGTH	SIZE NO. SPACING	a b	LENGTH SIZE NO. SPACING	a b	LENGTH SIZE NO.	С	LENGTH
H 23 8''	/ /	1"2'-10"			+25	4 / ' - 6	6"+26 17	4'-7	"+27 14 24 ' - 6 " + 28 18	1'-5"	2'-4"	+ 2 9 25 1'- 0"	5'-5"/'-/"	6 - 6					+32 17	/ ' - 8''	3'-10" 6
7 /0"	/ /	1" 3'-6"			6	5 / ' - 6	5" 4 17	5'-7	" 4 16 24 ' - 6 " 4 18	3 / ' - 5"	3'-0"	4 25 1'-0"	6'-5"/'-3"	7 - 8					4 17	2'-2"	4'-4"7
8 / ' - / ''	/ /	1" 4 - 3"		NOT _	6	5 1'-6	5" 4 17	6'-7	" 4 18 24 ' - 6 " 4 18	1'-5"	3'-9"	4 25 1'-0"	7'-5"/'-6"	8 - / / ''		NOT		<i>NOT</i> _	4 17	2'-8"	4'-10'' 8
9 / ' - 4"	/ /	1" 5 - 0"			6	6 1'-6	5" 4 17	7'-7	" 4 20 24 ' - 6 " 4 18	1'-5"	4'-6"	4 28 11"	8'-5"/'-10"	0'-3"					4 17	3'-2"	5'- 4" 9
10 1 ' - 7 ''	/ /	/ '' 6 ' - / ''	\perp R_{I}	EQUIRED = -	6	7 1'-6	5" 4 17	8'-7	" 4 24 24 ' - 6 '' 4 22	2 / ' - 2"	5'-7"	4 30 10"	9'-5"2'-1"	/ ' - 6''		PEQUIRED		— REQUIRED - 	4 17	4'-0"	6'-2"10
// / / -/0"	/ /	/" 7		THIS _	6	7 / ' - 6	5" 4 17	9'-7	" 4 26 24 ' - 6 " 4 28	/ / ''	6'-8"	5 25 1'-0"	10'-5"2'-5"	12'-10"		THIS		THIS _	4 17	4'-/0"	7'-0"//
12 2' - 3"	/ / -	0" 8' - 3"			6	8 1'-6	5" 4 17	10'-6	" 4 28 24 ' - 6 " 4 25	5 / ' - 0''	7'-9"	5 34 9"	11'-5"2'-10"	14'-3"				— CUEET -	4 17	5'-6"	7'-8"12
13 2' - 6"	/ / -	0" 9' - 3"	,	SHEET -	6	9 1'-6			" 4 32 24' - 6" 4 28	1 / "	8'-9"	5 34 9"	12'-5"3'-4"	15'-9"		SHEET		— SHEET -	4 17	6'-3"	8'-5"/3
14 2'-10"	/ / -	0"/0'- 4"			6	9 1'-6	5" 4 17	12'-6	" 4 34 24' - 6" 4 30	10"	9'-10"	5 43 7"	13'-5"3'-8"	/ / ' - / ''					4 /7	7'-0"	9'-2"/4
15 3' - 2"	/ / -	0"11"-7"			6	10 1'-6	5" 4 17	13'-6	" 4 38 24 ' - 6 " 5 34	9"	/ / ' - / '	' 5 50 6"	14'-5"4'-0"	18'-5"					4 17	7'-///	10'-1"15

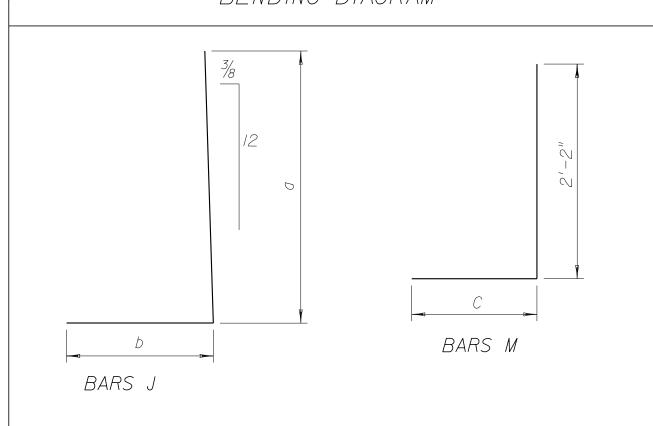
	QUANTITIES													
	CONCRETE/ 25' UNIT	STEEL / 25' UNIT	CONCRETE PER LIN.FT.	STEEL PER LIN.FT.										
	C.Y.	LBS.	C.Y.	LBS.										
#83	6.31	470	0.25	18										
7	7.73	549	0.31	21										
8	9.25	629	0.37	25										
9	10.80	7 3 3	0.43	29										
10	12.66	888	0.5/	35										
/ /	14.56	1088	0.58	43										
12	17.03	1317	0.68	52										
13	20.83	1489	0.83	59										
14	23.05	1782	0.92	7 /										
15	25 .44	2265	1.02	90										





To accommodate the Variable Height of a wall Unit, vertical Bars may be field cut to fit and the number of horizontal Bars G required by the highest wall dimension within a 25' Unit shall be equally spaced at each end of the Unit.

BENDING DIAGRAM



NOTE: All bar dimensions are out to out.

NOTE: Bars M are paired with Bars F. Bars F and M are No.4 Bars. Bars J are as shown.

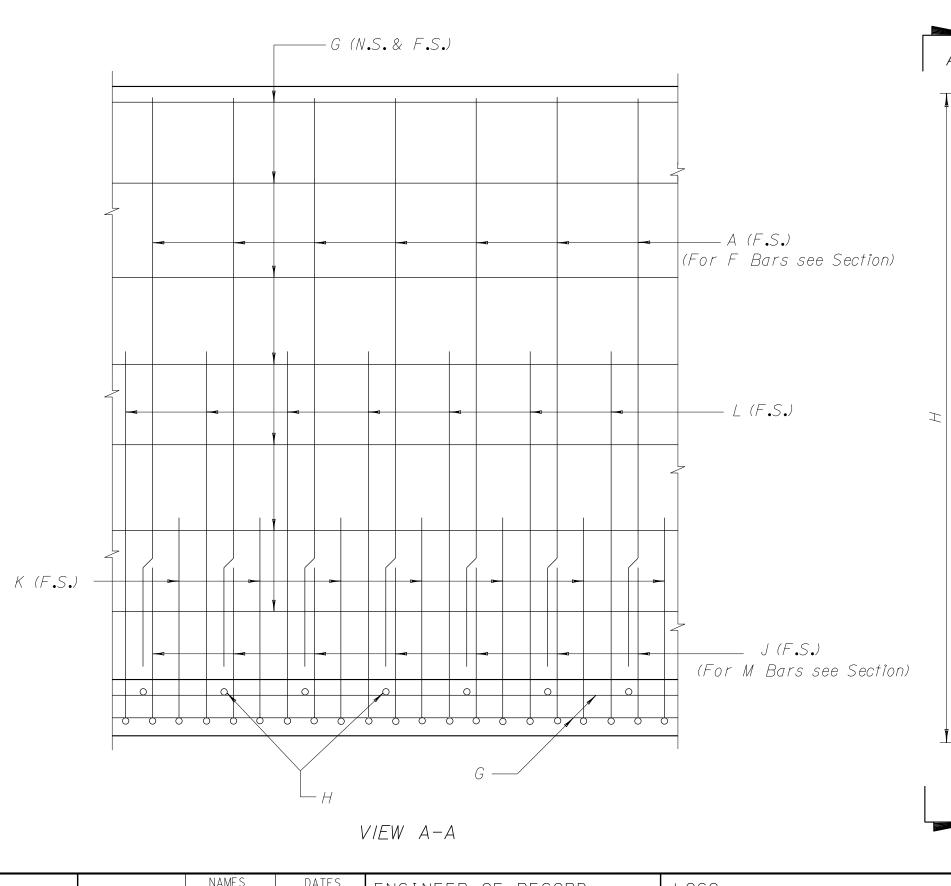
* NOTE. For placement details for Bars D see Standard Index No. 800.

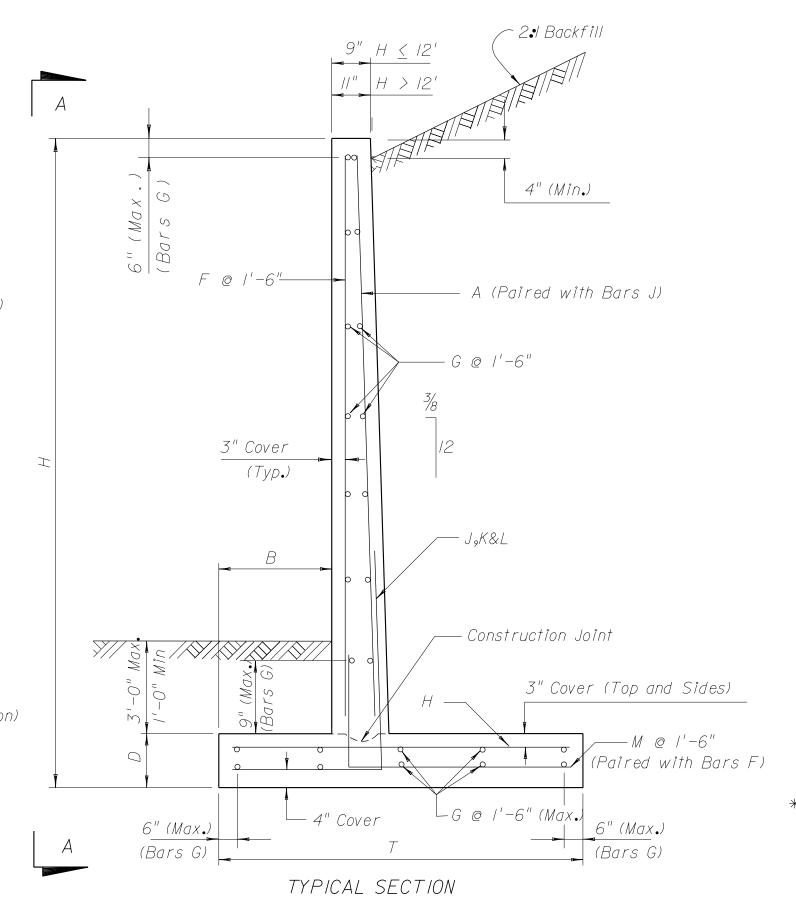
	REV	ISIONS		NAMES DATES	ENGINEER OF RECORD: LOGO:	SEAL 8	→ <u> </u>		SHEET TITLE:	DRAWING NO.
DATE	BY DESCRIPTION	DATE BY DESCRIPTION	DRAWN BY CHECKED BY	M.I. 3/87				FLORIDA DEPARTMENT OF TRANSPORTATION STRUCTURES DESIGN OFFICE	CASE III (2.0 KIPS/SQ.FT.MAX.BEARING PRESSURE) 6 FT.TO 15 FT.HEIGHT	1 of 1
		907	DESIGNED BY	M:P. 3/8/	STRUCTURES DESIGN OFFICE 605 Suwannee Street, MS 33		ROAD NO.	COUNTY PROJECT NO	PROJECT NAME:	INDEX NO.
			CHECKED BY APPROVED BY	A.G.M.	Tallahassee, Florida 32399-0450		·	· · ·		810

FED. ROAD DIV. NO.	STATE	PROJECT NO.	FISCA YEAR	SHEET NO.
3	FLA.		٠	

											RETAII	IING WALL	DATA												
WALL DIMENSIONS		REINFORCING STEEL SCHEDULE																							
H B D T	BARS A	BA	ARS D*	BARS F		BARS G		BARS H	1			BARS J					Ĺ	BARS K	,		BARS	L		BARS M	
	SIZE NO. LENGTH	SIZE NO.	· LENGTH S	IZE NO. LENG	GTH SIZE	NO. LENGTH	SIZE NO.	SPACING	LENGT	H SIZE NO	SPACING	а	Ь	LENGTH	SIZE I	10. SPACI	NG	а	b LENGTH	H SIZE NO. SPACIN	G a	Ь	LENGTH	SIZE NO.	C LENGTH
6 8" 11" 2'-10"		6 4	/ / - 6"	4 17 4 ' -	- 7" 4	14 24' - 6"	4 /8	/ ' - 5"	2'-4'	4 25	5 / ' - 0''	5'-5"/	' - /'' E	6 ' - 6 ''										4 17	1'-8" 3'-10" 6
7 9" //" 3' - 5"		6 5	/ ' - 6"	4 17 5 ' -	- 7" 4	16 24' - 6"	4 18	/ ' - 5"	2'-//'	4 25	5 / ' - 0''	6'-5"/	' - 2" 7	7 - 7										4 17	2'-2"4'-4"7
8 //" //" 3'-//"		6 5	/ ' - 6"	4 17 6 ' -	- 7" 4	18 24' - 6"	4 18	/ ' - 5"	3'-5'	" 4 25	5 / ' - 0''	7'-5"/	' - 4" E	3 ' - 9 ''										4 17	2'-6"4'-8"8
9 1'-2" 11" 4'-4"		6 6	/ / - 6"	4 17 7 ' -	- 7" 4	20 24' - 6"	4 /8	/ ' - 5"	3'-10'	'' 4 28	3 //"	8'-5"/	- 8" / (0'-/"										4 17	2'-8"4'-10"9
10 1'- 4" 11" 5'- 3"		6 7	/ ' - 6"	4 17 8 ' -	- 7" 4	22 24' - 6"	4 25	/ ' - 0''	4'-9'	' 4 30	0 /0"	9'-5"/	· / - / O '' /	/ ' - 3''										4 17	3'-5"5'-7"10
// / - 7" //" 6' - 2"		6 7	/ ' - 6 ''	4 17 9 ' -	- 7" 4	24 24' - 6"	4 34	9"	5'-8'	5 25	5 / ' - 0''	10'-5"2	2'-2"1	2'-7"										4 17	4'-1"6'-3"1
12 ' - 10" ' - 0" 7 ' - 0"		6 8	/ / / - 6 // -	4 17 10 ' -	- 6" 4	26 24' - 6"	4 30	10"	6'-6'	5 34	9''	// - 5" 2	2'-5"/	3'-10"										4 17	4'-8"6'-10"12
13 2'- 1" '- 0" 7'- "		6 9	/ / / - 6"	4 17 1 1 -	- 6" 4	30 24' - 6"	4 34	9"	7'-5'	5 34	9''	12'-5"2	2'-10"1	5'- 3"										4 17	5'- 4" 7'- 6" / 3
14 2'- 4" '- 0" 8'- "		6 9	/ / - 6"	4 17 12' -	- 6" 4	32 24' - 6"	4 30	10"	8'-5'	5 43	3 7"	13'-5"	3'-2"1	6'-7"										4 17	6'-1"8'-3"14
15 2'-8" '-0" 9'- "		6 10	/ / - 6"	4 17 13' -	- 6" 4	34 24' - 6"	5 34	9"	9'-5'	5 25	5 / ' - 0''	14'-5"	3'-6"1	7 ' - / / ''	5 2	24 / ' - ()'' 5'-	- 9" 3"	- 6" 9 - 3"					4 17	6'-9"8'-11"15
16 3'-0" '-0" '-0'	5 20 14' - 6"	6 10	/ / - 6"	4 17 14 ' -	- 6" 4	36 24' - 6"	5 38	8''	10'-6	" 5 20) / ' - 3''	2'-10"3	3'-10" 6	5 ' - 8''	5 /	9 / ' - 3	3" 4'-	- 9" 3 '	-/0" 8 - 7"	5 /9 / ' - 3	" / 0 ' - 9 '	" 3'-10" 1	4'-7"	4 17	7'-6"9'-8"16
17 3' - 5" ' - 2" 2' - 2'	6 17 15'-4"	6 //	/ ' - 6"	4 17 15 ' -	- 4" 4	40 24' - 6"	5 30	10"	// - 8	" 6 / 7	7 / ' - 6"	3'-5"4	1 ' - 4'' 7	7 - 9"	6	6 1'- 6	6" 5'-	- 4"4"	- 4" 9 - 8"	6 16 1' - 6	" 8' - 4"	'4'-4"/	2'-8"	4 17	8'- 3" 0'- 5" 7
18 3' - 8" ' - 2" 3' - 8'	6 20 16' - 4"	6 12	1'-6"	4 17 16 ' -	- 4" 4	44 24' - 6"	5 34	9"	13'-2	" 6 20) / ' - 3''	3'-5"4	1 ' - 7'' 8	3 ' - 0''	6	9 / ' - 3	3" 5'-	- 4"4"	- 7" 9 '-//"	6 19 1'- 3	" 8' - 4"	4 ' - 7 '' / .	2'-//"	4 17	9'-6" -8" 8
19 4'- 2" '- 8" 4'- 7'	6 17 16'-10"	6 12	1'-6"	4 17 16 ' -	-/0" 4	46 24' - 6"	5 30	10"	/4'-/	" 7 / 7	7 / ' - 6"	4'-10"5	5 ' - 2" / (0'-0"	6	6 1'- 6	6" 6'-	- 5"5"	- 2" / / ' - 7"	7 16 1 ' - 6	" / 0 ' - 5'	"5'-2"/	5'-7"	4 17	9'-//"/2'- /"/9
20 4'-8" '-8" 5'-3'	' 6 19 17 ' - 10 ''	6 / 3	1 - 6"	4 17 17 ' -	-/0"4	48 24' - 6"	5 30	10"	14'-9	" 7 / 9	7 / ' - 4''	4'-10"5	5 ' - 8'' / (0'-6"	7 /	8 / ' - 2	4" 7'-	- 5" 5 '	- 8" / 3 ' - / "	7 18 1 ' - 4	" / / ' - 5'	"5'-8"1	7 ' - / ''	4 17	10'-1"12'-3"20

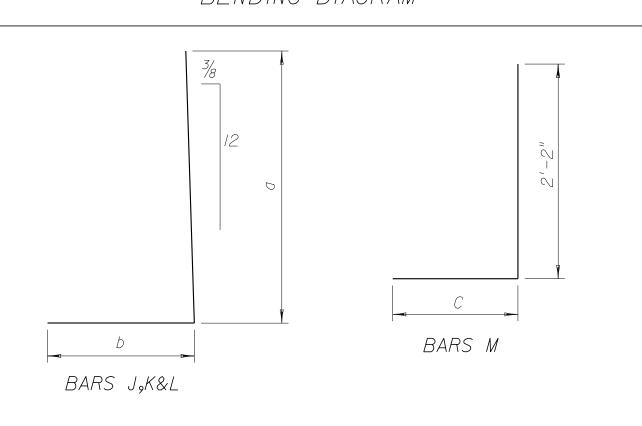
	QUANTITIES												
1.1	CONCRETE/ 25' UNIT	STEEL / 25' UNIT	CONCRETE PER LIN.FT.	STEEL PER LIN.FT.									
H	C.Y.	LBS.	C.Y.	LBS.									
6	6.31	470	0.25	18									
7	7.66	547	0.31	21									
8	8.97	620	0.36	24									
9	10.24	716	0.41	28									
10	11.96	841	0.48	33									
/ /	13.71	1045	0.55	4 /									
12	15.87	1261	0.63	50									
13	19.60	1436	0.78	57									
14	21.74	1692	0.87	67									
15	23.90	1866	0.96	7.4									
16	26 .17	2202	1.05	88									
17	30.21	2463	1.21	98									
18	33.15	29 4	1.33	116									
19	41.56	3114	1.66	124									
20	43.96	3644	1.76	145									





To accommodate the Variable Height of a wall Unit, vertical Bars may be field cut to fit and the number of horizontal Bars G required by the highest wall dimension within a 25' Unit shall be equally spaced at each end of the Unit.

BENDING DIAGRAM



NOTE: All bar dimensions are out to out.

NOTE• Bars M are paired with Bars F and Bars A are paired with Bars J. Bars F and M are No.4 Bars. Bars J are as shown.

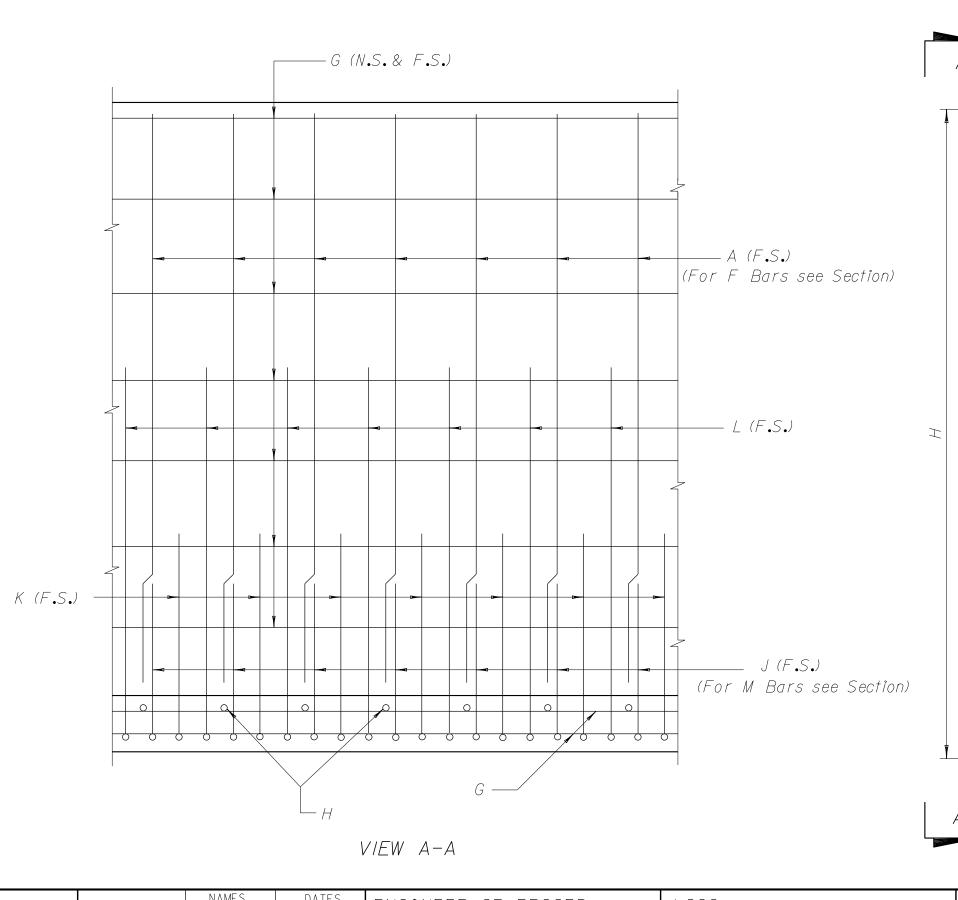
* NOTE•For placement details for Bars D see Standard Index No.800.

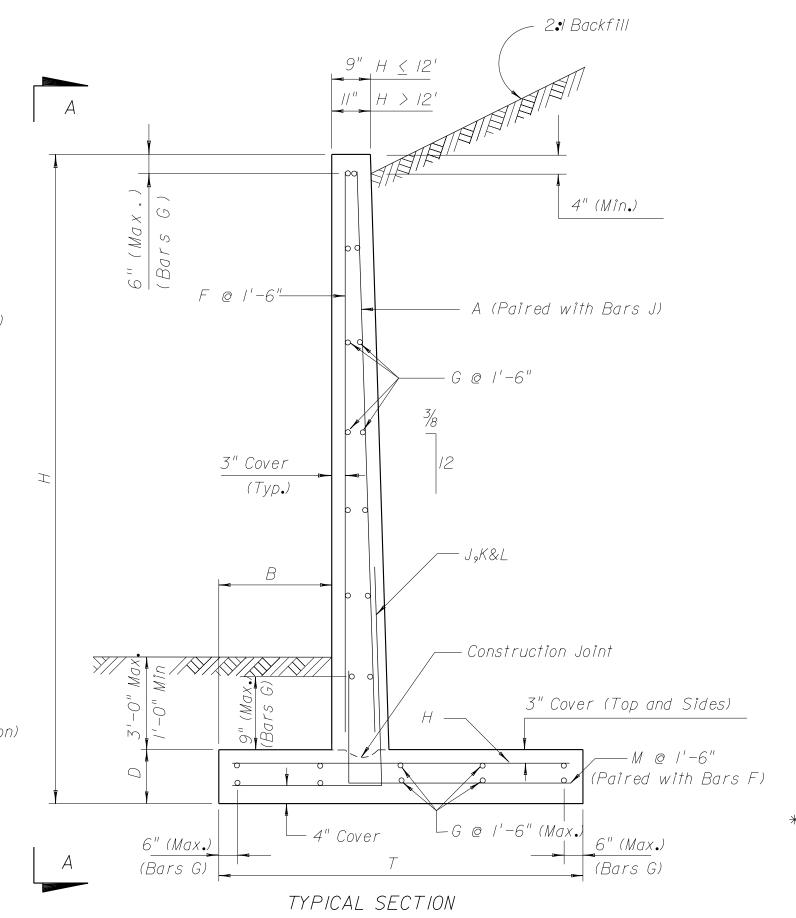
		REVISION	15			NAMES	DATES	ENGINEER OF RECORD:	LOGO:	SEAL:	<u> </u>		A CONTROL OF THE ANADODE A TRACK	SHEET TITLE:	DRAWING NO.
DATE	BY DESCRIPTION	DATE	ВҮ	DESCRIPTION	DRAWN BY	M.1.	6/85					FLORIDA DEPARTI	MENT OF TRANSPORTATION	CASE III (2.5 KIPS/SQ.FT.MAX.BEARING	1 1
		90R			CHECKED BY	M.P.	6/85	STRUCTURES DESIGN OFFICE				STRUCTURE	ES DESIGN OFFICE	PRESSURE) 6 FT. TO 20 FT. HEIGHT	1 of 1
					DESIGNED BY						=				TANDEN MA
								605 Suwannee Street, MS 33			ROAD NO.	COUNTY	PROJECT NO.	PROJECT NAME:	INDEX NO.
					CHECKED BY	•	•	Tallahassee, Florida 32399-0450						1	<i>9.11</i>
1					APPROVED BY	A.(G•M•				·	•	·		OH

ED. ROAD DIV. NO.	STATE	PROJECT NO.	FISCA YEAR	_ SHEET NO.
3	FLA.		•	

							RETAINING WALL DATA							
WALL DIMENSIONS		REINFORCING STEEL SCHEDULE												
H B D T	BARS	A BA	irs D*	BARS F	BARS G	BARS H	BARS J	BARS K	BARS L		BARS M			
	SIZE NO. LI	ENGTH SIZE NO	LENGTH SIZ	ZE NO. LENGTH SI.	ZE NO. LENGTH SIZE NO.	SPACING LENGTH	SIZE NO. SPACING a b LENGTH	SIZE NO. SPACING a b	LENGTH SIZE NO. SPACING a b	LENGTH SIZE NO.	C LENGTH H			
H62 8" 11" 2'-10" -	1 / 3	+64 4	1'-6"+4	5 17 4' - 7" 4	46 14 24 ' - 6 " + 47 18	1'-5" 2'-4"	+48 25 1'- 0" 5'- 5" 1'- 1" 6'- 6"	+19	+20	+21 17	1'-8"3'-10"6			
7 9" //" 3' - 5"		6 5	1'-6"4	17 5'-7" 4	1 16 24' - 6" 4 18	1'-5" 2'-11"	4 25 1 ' - 0" 6 ' - 5" 1 ' - 2" 7 ' - 7"			4 17	2'-2"4'-4"7			
8 //" //" 3'-//"		6 5	1'-6"4	17 6'-7" 4	1 16 24' - 6" 4 18	1'-5" 3'-5"	4 25 1 ' - 0" 7 ' - 5" ' - 4" 8 - 9"			4 17	2'-6" 4'-8" 8			
9 1 ' - 2" 11" 4 ' - 4"		6 6	1'-6"4	17 7'-7" 4	4 20 24' - 6" 4 18	1'-5" 3'-10"	4 28			4 17	2'-8"4'-10"9			
10 1'- 2" 11" 4'-10"		6 7	1'-6"4	17 8'-7" 4	4 22 24 ' - 6 " 4 25	1'-0" 4'-4"	4 30 10" 9' - 5" ' - 8" ' - "			4 17	3'-2"5'-4"10			
		6 7	1'-6"4	17 9'-7" 4	4 22 24' - 6" 4 38	8" 5'- 0"	5 25 1' - 0" 0' - 5" ' - 1" 2' - 4"			4 17	3'-8" 5'-10"11			
12 ' - 7" ' - 0" 6 ' - 3"		6 8	1'-6"4	17 10'-6" 4	4 26 24' - 6" 4 34	9" 5'- 9"	5 34 9" / / ' - 5" 2' - 2" / 3' - 7"			4 17	4'-2"6'-4"12			
13 / '-/0" / '- 0" 6 '-//"		6 9	1'-6"4	17 11'- 6" 4	4 28 24' - 6" 4 38	8" 6'-5"	5 34 9" 2' - 5" 2' - 7" 5' - 0"			4 17	4'-7"6'-9"13			
14 2'- " '- 0" 7'- "		6 9	1'-6"4	17 12' - 6" 4	4 30 24' - 6" 4 34	9" 7'- 5"	5 43 7" 3' - 5" 2' - 16' - 4"			4 17	5'-4"7'-6"14			
15 2'- 4" '- 0" 8'-10"		6 10	1'-6"4	17 13' - 6" 4	4 34 24' - 6" 5 38	8" 8' - 4"	5 25 1' - 0" 4' - 5" 3' - 2" 7' - 7"	5 24 1'- 0" 5'- 9" 3'- 2" 8	3 ' - / / "	4 17	6'-0"8'-2"15			
16 2'- 7" '- 0" 9'-10"	5 20 14	1'-6"6 //	1'-6"4	17 14'-6" 4	4 36 24' - 6" 5 43	7" 9'- 4"	5 20 1 ' - 3" 2 ' - 10" 3 ' - 5" 6 ' - 3"	5 19 1 ' - 3" 4 ' - 9" 3 ' - 5" 8	3'-2"	4'-2" 4 17	6'-9"8'-11"16			
17 2'-11" '- 2" 0 '- 9"	6 17 15	5'-4"6 //	1'-6"4	17 15' - 4" 4	4 38 24' - 6" 5 38	8" 0'-3"	6 17 1' - 6" 3' - 5" 3' - 10" 7 - 3"	6 16 1' - 6" 5' - 4" 3' - 10" 9	0'-2" 6 16 1'-6" 8'-4"3'-10" 1	2'-2" 4 17	7'-4"9'-6"17			
18 3'- 2" '- 2" '- "	6 20 16	5'-4" 6 12	1'-6"4	17 16'- 4" 4	4 42 24' - 6" 5 50	6" //' - 5"	6 20 1'- 3" 3'- 5" 4'- 1" 7'- 6"	6	0'-5" 6 20 1'-3" 8'-4"4'-1"1	2'-5" 4 17	8'-3" 0'-5" 8			
19 3'- 8" '- 8" 2'-10"	6 17 16	5'-10" 6 12	1'-6"4	17 16'-10" 4	4 42 24' - 6" 5 30	10" 2'- 4"	7 17 1' - 6" 4' - 10" 4' - 8" 9 - 6"	7 16 1' - 6" 6' - 5" 4' - 8" 1	1'- 1" 7 16 1'- 6" 10'- 5" 4'- 8" 1	5'-1" 4 17	8'-8" /0'-/0" 9			
20 4'- " '- 8" 3'- 6"	6 19 17	7'-10" 6 13	1'-6"4	17 17 '-10" 4	46 24' - 6" 5 34	9" /3'- 0"	7 19 1 ' - 4" 4 ' - 10" 5 ' - 1" 9 ' - 11"	7 18 1 ' - 4" 7 ' - 5" 5 ' - 1" 12	2'-6" 7 18 1'-4" 1 1'-5"5'-1"	6'-6" 4 17	8'-//"///- /"20			
21 4'- 6" '- 8" 4'- 5"	6 17 18	3'-10" 6 14	1'-6"4	17 18'-10" 4	48 24' - 6" 5 38	8" 3'- 1"	8 17 1' - 6" 5' - 11" 5' - 6" 1 ' - 5"	8 16 1 ' - 6" 9 ' - 1" 5 ' - 6" 2	4'-7" 8 16 1'-6" 13'-1"5'-6" 1	8'-7" 4 17	9'-5" -7"2			
22 4'-11" '- 8" 5'- 2"	6 19 19	9'-10" 6 14	1'-6" 4	17 19'-10" 4	4 50 24' - 6" 5 43	7" 4'-8"	8 19 1' - 4" 6' - 1" 6' - 0" 12' - 1"	8 18 1 ' - 4" 9 ' - 1" 6 ' - 0" 15	5'- 8 18 1'- 4" 4'- 1" 6'- 0" 2	0'-1" 4 17	9'-9" - 22			
23 5'-6"2'-2"16'-3"	6 20 20)'-4" 6 15	1'-6" 4	17 20' - 4" 4	4 54 24' - 6" 5 43	7" /5'- 9"	8 20 1'- 3" 6'- 7" 6'- 7" 13'- 2"	8 19 1 ' - 3" 9 ' - 7" 6 ' - 7" 16	6'-2" 8 20 1'-3" 14'-7" 6'-7" 2	1'-2" 4 17	10'-3" 2'-5"23			
24 5'-11"2'-2"17'-0"	6 19 21	''-4" 6 15	1'-6"4	17 21'- 4" 4	4 54 24' - 6" 5 43	7" 6'-6"	9 19 1' - 4" 7' - 8" 7' - 0" 14' - 8"	9 18 1 ' - 4" 10 ' - 3" 7 ' - 0"	7'-3" 9 18 1'-4" 16'-3" 7'-0" 2	3'-3" 4 17	10'-7" 12'-9"24			
25 6'- 4"2'- 2" 7'- "	6 20 22	2'-4" 6 16	1'-6"4	17 22' - 4" 4	4 58 24' - 6" 5 43	7" 7' - 5"	9 20 1'- 3" 7'- 8"7'- 6" 15'- 2"	9 19 1' - 3" 11' - 3" 7' - 6"			11'-1" 3'-3"25			

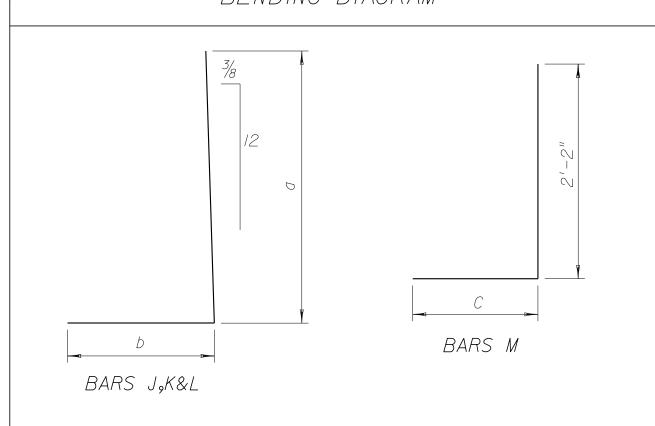
		QUANTI	TIES	
, ,	CONCRETE / 25' UNIT	STEEL / 25' UNIT	CONCRETE PER LIN.FT.	STEEL PER LIN.FT.
H	C.Y.	LBS.	C.Y.	LBS.
#82	6.31	470	0.25	18
7	7.66	547	0.31	21
8	8.97	588	0.36	23
9	10.24	7 / 6	0.41	28
10	11.60	828	0.46	33
/ /	13.14	999	0.53	39
12	15.18	1246	0.67	49
13	18.67	1380	0.75	55
14	20 .8 /	1639	0.83	65
15	22.90	1836	0.92	73
16	25.09	2/88	1.00	87
17	28.68	2424	1.15	96
18	31.26	297 /	1.25	118
19	38.86	3030	1.55	121
20	41.26	3532	1.65	141
21	44.07	4 30	1.76	165
22	46 .65	47 37	1.87	189
23	56.56	5286	2.26	211
24	59.53	6/08	2.38	244
25	62.87	6766	2.51	270





To accommodate the Variable Height of a wall Unit, vertical Bars may be field cut to fit and the number of horizontal Bars G required by the highest wall dimension within a 25' Unit shall be equally spaced at each end of the Unit.

BENDING DIAGRAM



NOTE: All bar dimensions are out to out.

NOTE: Bars M are paired with Bars F and Bars A are paired with Bars J. Bars F and M are No.4 Bars. Bars J are as shown.

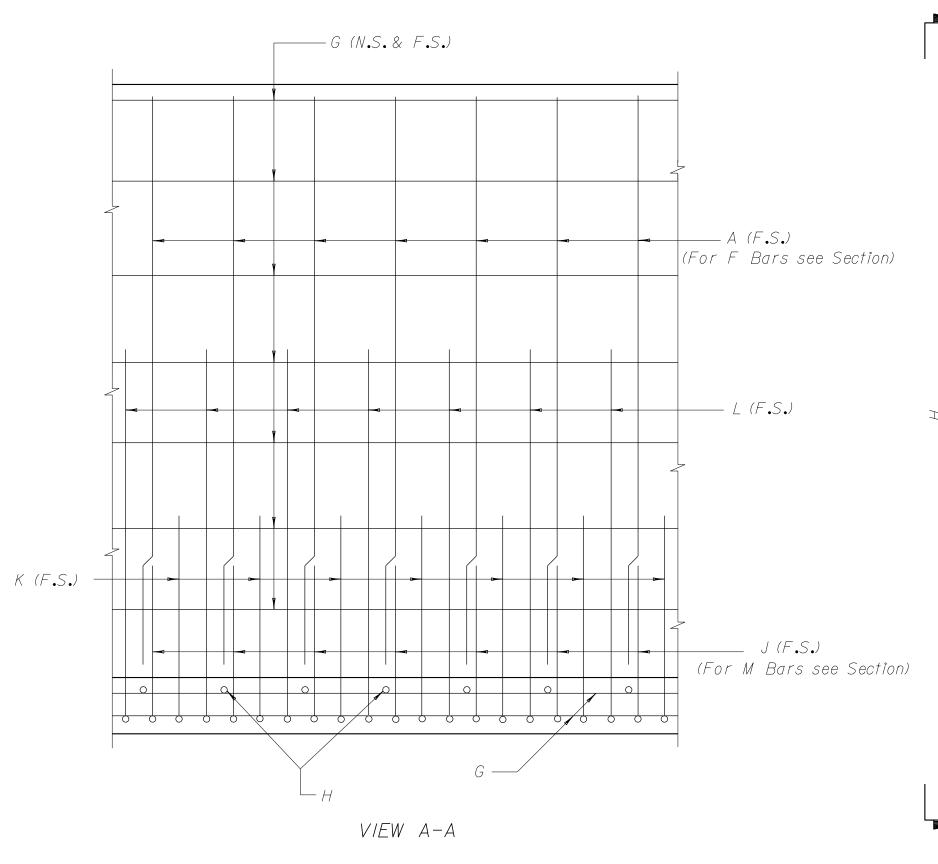
* NOTE•For placement details for Bars D see Standard Index No.800.

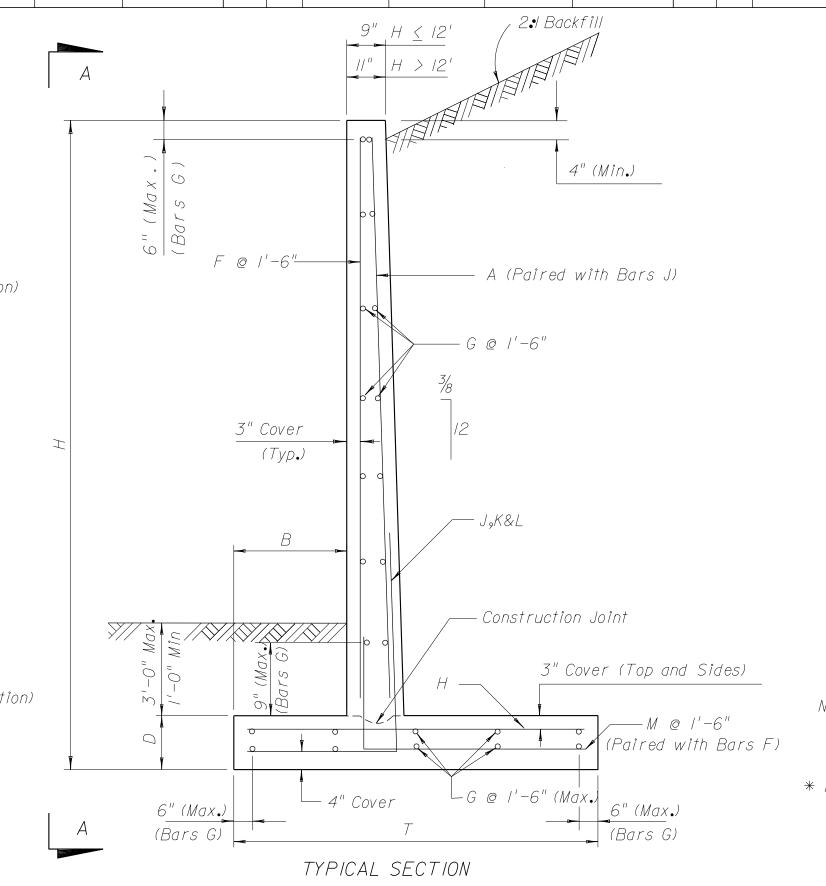
REV	ISIONS	NAMES DATE	ENGINEER OF RECORD: LOGO:	SEAL 8	ELODIDA DEDADTMENT OF TRANSPORTA	SHEET TITLE: DRAWING NO.
DATE BY DESCRIPTION	DATE BY DESCRIPTION 90R	DRAWN BY M:/. 3/87 CHECKED BY M:P. 3/87	STRUCTURES DESIGN OFFICE		FLORIDA DEPARTMENT OF TRANSPORTA STRUCTURES DESIGN OFF	E CASE III (J.U NIES/SQ.FI.MAX. DEARING ERESSURE)
		CHECKED BY APPROVED BY A.G.M.	605 Suwannee Street, MS 33 Tallahassee, Florida 32399-0450		ROAD NO. COUNTY PROJECT NO.	PROJECT NAME: INDEX NO: 812

ED. ROAD DIV. NO.	STATE	PROJECT NO.	FISCA YEAR	_ SHEET NO∙
3	FLA.			

						RETAINING WALL DATA				
WALL DIMENSIONS						REINFORCING STEEL S	SCHEDULE			
H B D T	BARS A	BARS D *	BARS F	BARS G	BARS H	BARS J	BARS K	BARS L		BARS M
	SIZE NO. LENGTH	SIZE NO. LENGTH	SIZE NO. LENGTH S	ZE NO. LENGTH SIZE NO.	SPACING LENGTH	H SIZE NO. SPACING a b LENGTI	H SIZE NO. SPACING a b	LENGTH SIZE NO. SPACING a b	LENGTH SIZE NO.	C LENGTH
6 8" 11" 2'-10"		6 4 1'-6"	4 17 4' - 7''	4 14 24 ' - 6 '' 4 18	1'-5" 2'-4"	4 25 1'- 0" 5'- 5" 1'- 1" 6'- 6"			4 17	1'-8"3'-10"6
7 9" //" 3' - 5"		6 5 1'-6"	4 17 5' - 7''	4 16 24 ' - 6 " 4 18	1'-5" 2'-11"	4 25 1'- 0" 6'- 5" 1'- 2" 7'- 7"			4 17	2'-2" 4'-4" 7
8 11" 11" 3 ' - 11"		6 5 1'-6"	4 17 6 ' - 7 ''	4 16 24 ' - 6 '' 4 18	1'-5" 3'-5"	4 25 1 ' - 0" 7 ' - 5" ' - 4" 8 ' - 9"			4 17	2'-6" 4'-8" 8
9 1 ' - 2" 1 1 4 - 4"		6 6 1'-6"	4 17 7 ' - 7 ''	4 20 24 ' - 6 " 4 18	1'-5" 3'-10"	4 28			4 17	2'-8" 4'-10" 9
10 1 ' - 2" 11" 4 ' - 10"		6 7 1'-6"	4 17 8 ' - 7 ''	4 22 24' - 6" 4 28	/ / " 4 ' - 4 ''	4 30 10" 9' - 5" / ' - 8" / / ' - 1"			4 17	3'-2" 5'-4"10
		6 7 1'-6"	4 17 9' - 7"	4 22 24 ' - 6 " 4 38	8" 5'-0"	5 25 1'- 0" 10'- 5" 1'-11" 12'- 4"			4 17	3'-8" 5'-10"11
12 1 ' - 6" 1 ' - 0" 5 ' - 9"		6 8 1'-6"	4 17 10 ' - 6 ''	4 26 24' - 6" 4 34	9" 5'- 3"	5 34 9" / / ' - 5" 2 ' - /" / 3 ' - 6"			4 17	3'-9"5'-11"12
13 / ' - 8" / ' - 0" 6 ' - 4"		6 9 1'-6"	4 17 11 ' - 6 ''	4 28 24' - 6" 4 43	7" 5'-10"	5 34 9" 2' - 5" 2' - 5" 4' - 0"			4 17	4'-2"6'-4"13
14 1'-10" 1'- 0" 7'- 1"		6 9 1'-6"	4 17 12' - 6"	4 30 24' - 6" 4 50	6" 6'-7"	5 43 7" 3' - 5" 2' - 8" 6' - "			4 17	4'-9"6'-11"14
15 2'- 1" '- 0" 8'- 0"		6 10 1'-6"	4 17 13' - 6"	4 32 24' - 6" 5 43	7" 7'- 6"	5 25 1'- 0" 14'- 5" 2'-11" 17'- 4"	5 24 1'- 0" 5'- 9"2'-11" 8	' - 8"	4 17	5'-5"7'-7"15
16 2'- 4" '- 0" 8'-10"	5 20 14' - 6	6 // / - 6"	4 17 14' - 6"	4 36 24' - 6" 5 50	6" 8'- 4"	5 20 1'- 3" 2'-10" 3'- 2" 6'- 0"	5	-	3'-//'' 4 17	6'-0"8'-2"16
17 2' - 7" ' - 2" 9' - 8"	6 17 15'- 4	.''' 6 6	4 17 15'-4"	4 36 24' - 6" 5 50	6" 9'- 2"	6 17 1' - 6" 3' - 5" 3' - 6" 6 - 1 1"	6 16 1' - 6" 5' - 4" 3' - 6" 8	- 0" 6 16 1' - 6" 8' - 4" 3' - 6" 1	'-10" 4 17	6'-7"8'-9"17
18 2'-10" '- 2" 0'-10"	6 20 16' - 4	:'' 6	4 17 16'-4"	4 40 24' - 6" 5 60	5" 0'- 4"	' 6 20 1'- 3" 3'- 5" 3'- 9" 7'- 2"	6	- 6 19 1 - 3" 8 - 4" 3 - 9" 12	' - '' 4 17	7'-6"9'-8"18
19 3'- 3" '- 8" '- 6"	6 17 16'-10	0'' 6 12 1' - 6''	4 17 16'-10"	4 40 24' - 6" 5 38	8" / / ' - 0"	7	7 16 1'-6" 6'-5"4'-3" 10	0'-8" 7 16 1'-6" 10'-5"4'-3" 1	1'-8" 4 17	7'-9"9'-11"19
20 3'-8" '-8" 2'-3"	6 19 17'-10	0'' 6 13 1' - 6''	4 17 17 '-10"	4 44 24' - 6" 5 38	8" - 9"	7 19 1 ' - 4" 4 ' - 10" 4 ' - 8" 9 - 6"	7 18 1 ' - 4" 7 ' - 5" 4 ' - 8" 12	2'- " 7 18 1'- 4" 1 - 5" 4' - 8"	'- /" 4 17	8'- " 10'- 3" 20
21 4'- 1" 1'- 8" 13'- 0"	6 17 18'-10	0'' 6 14 1' - 6''	4 17 18'-10''	4 46 24' - 6" 5 43	7" 2'-6"	' 8 17 1' - 6" 5' - 1" 5 - 1" 1 ' - 0"	8 16 1'-6" 9'-1"5'-1"12	1'-2" 8 16 1'-6" 13'-1"5'-1"1	3'-2" 4 17	8'-5"10'-7"21
22 4'- 6" '- 8" 3'-10"	6 19 19'-10	0'' 6 14 1' - 6''	4 17 19 ' - 10 ''	4 48 24' - 6" 5 50	6" 3' - 4"	' 8 9 1 ' - 4" 6 ' - 1" 5 ' - 7" 1 ' - 8"	8 18 1' - 4" 9' - 1" 5' - 7" 2	1'-8" 8 18 1'-4" 14'-1"5'-7" 1	- 8" 4 17	8'-10" 22
23 4'-11"2'- 2" 14'- 9"	6 20 20' - 4	6 /5 / - 6"	4 17 20' - 4''	4 52 24' - 6" 5 43	7" 4' - 3"	' 8 20 1'- 3" 6'- 7" 6'- 0" 12'- 7"	8 19 1 ' - 3" 9 ' - 7" 6 ' - 0" 5	5'-7" 8 19 1'-3" 14'-7"6'-0"2)'-7'' 4 17	9'-4" -6"23
24 5' - 4" 2' - 2" 15' - 7"	6 19 21' - 4	·'' 6	4 17 21'-4"	4 52 24' - 6" 5 43	7" /5'- /"	' 9 19 1' - 4" 7' - 8" 6 ' - 5" 14' - 1"	9 18 1 ' - 4" 1 ' - 3" 6 ' - 5"	7'-8" 9 18 1'-4" 16'-3" 6'-5" 2	2'-8" 4 17	9'-9" '- "24
25 5'- 9"2'- 2" 16'- 5"	6 20 22' - 4	6 16 1'-6"	4 17 22' - 4"	4 56 24' - 6" 5 50	6" 5'-11"	' 9 20 1'- 3" 7'- 8"6'-11" 14'- 7"	9 /9 / ' - 3" / / ' - 3" 6 ' - / / " /	8'-2" 9 19 1'-3" 17'-3"6'-11"2	1'-2" 4 17	10'-2" 2'-4"25
26 6'-2"2'-2"17'-3"	7 20 23' - 4	6 17 1'-6"	4 17 23' - 4"	4 58 24' - 6" 5 50	6" 6' - 9"	9 20 1'- 3" 8'- 2"7'- 4" 15'- 6"	9 19 1'- 3" 12'- 3" 7'- 4" 1	9'-7" 9 19 1'-3" 18'-3"7'-4"2	' - 7" 4 17	10'-7"12'-9"26
27 6'-8"2'-8"18'-4"	7 20 23'-10	0" 6 17 1 ' - 6"	4 17 23'-10"	4 60 24' - 6" 5 60	5" 7'-10"	9 20 1'- 3" 8'- 8"7'-11" 16'- 7"	9 19 1'- 3" 12'- 9"7'-11" 2	0'-8" 9 19 1'-3" 18'-9"7'-11"2	1 - 8" 4 17	11'-2"13'-4"27
28 7'-1"2'-8"19'-2"	8 19 24'-10	0'' 6 18 1 ' - 6''	4 17 24 ' - 10 ''	4 64 24' - 6" 5 60	5" 8' - 8"	" 10 19 1 ' - 4" 9 ' - 2" 8 ' - 4" 17 ' - 6"	10 18 1' - 4" 3' - 9" 8' - 4" 2	2'- " 0 18 - 4" 9'- 9" 8'- 4" 2	3'- /" 4 /7	11'-7" 3'-9"28
29 7'- 6"2'- 8"20'- 0"			4 17 25'-10"	4 64 24' - 6" 5 60	5" 9'-6"	'' 10 20 1 ' - 3" 9 ' - 8" 8 ' - 9" 18 ' - 5"	10 19 1'- 3" 14'- 9" 8'- 9" 2		- 6" 4 17	12'-0" 4'-2"29
30 8'-1"3'-2"21'-3"				4 68 24' - 6" 6 50	6" 20' - 9"			4'-8"		12'-8" 14'-10"30

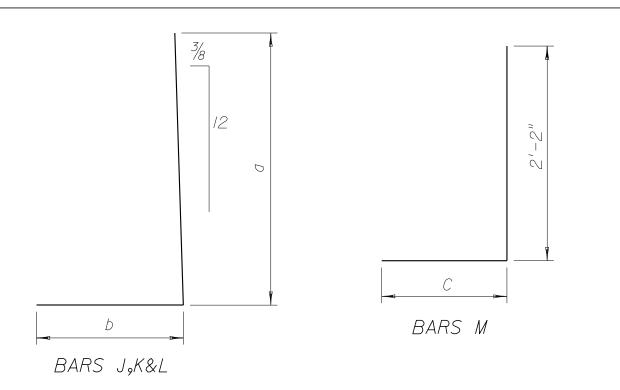
		QUANTI	TIES	
1.1	CONCRETE / 25' UNIT	STEEL / 25' UNIT	CONCRETE PER LIN.FT.	STEEL PER LIN.FT.
Н	C.Y.	LBS.	C.Y.	LBS.
6	6.31	470	0.25	18
7	7.66	547	0.31	21
8	8.97	588	0.36	23
9	10.24	7 / 6	0.41	28
10	11.60	837	0.46	33
/ /	13.14	999	0.53	39
12	14.71	1227	0.59	49
13	18.13	1374	0.73	54
14	20.04	1672	0.80	66
15	22.13	1790	0.89	7 /
16	24.17	2166	0.97	86
17	27 .5/	2430	1.10	97
18	30.09	2933	1.20	117
19	36 .8 /	2995	1.47	119
20	39.33	3448	1.57	1 37
21	41.88	4040	1.68	161
22	44.59	4670	1.78	186
23	53.55	5002	2.14	200
24	56.69	5925	2.27	237
25	59.86	6573	2.39	262
26	63.05	7201	2.52	288
27	74.49	77 8	2.98	308
28	78.11	9270	3.12	370
29	81.77	10060	3.27	402
30	95.50	10849	3.82	433





To accommodate the Variable Height of a wall Unit, vertical Bars may be field cut to fit and the number of horizontal Bars G required by the highest wall dimension within a 25' Unit shall be equally spaced at each end of the Unit.

BENDING DIAGRAM



NOTE: All bar dimensions are out to out.

NOTE• Bars M are paired with Bars F and Bars A are paired with Bars J. Bars F and M are No.4 Bars. Bars J are as shown.

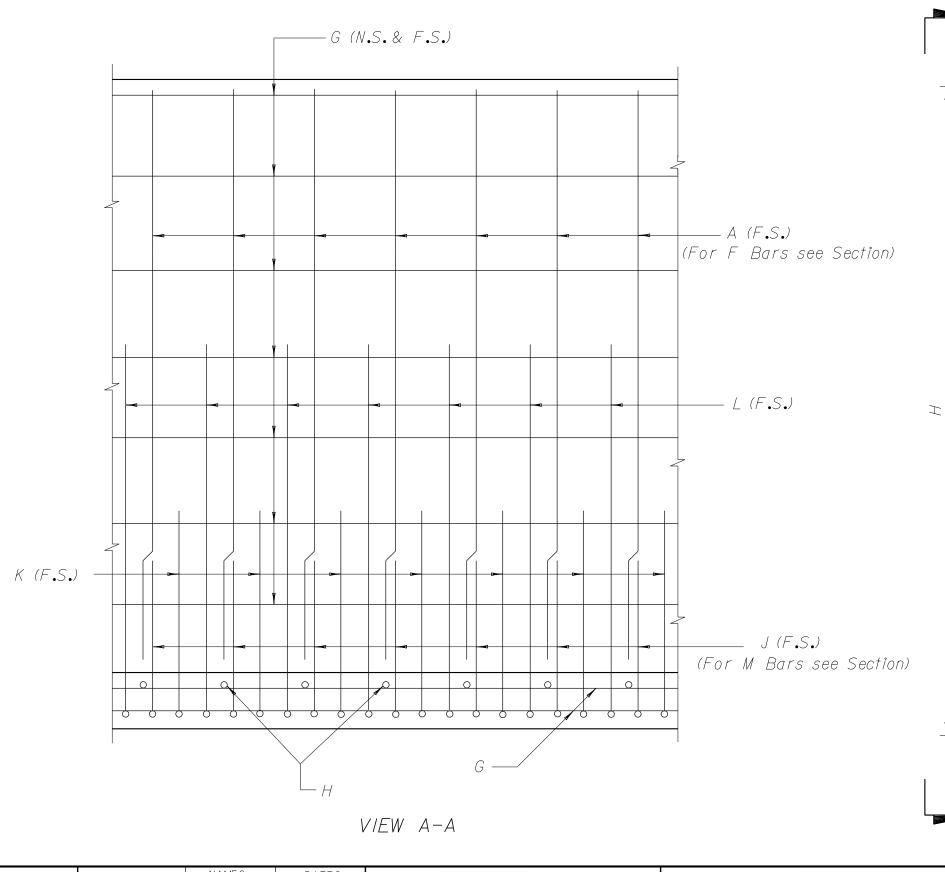
* NOTE•For placement details for Bars D see Standard Index No.800.

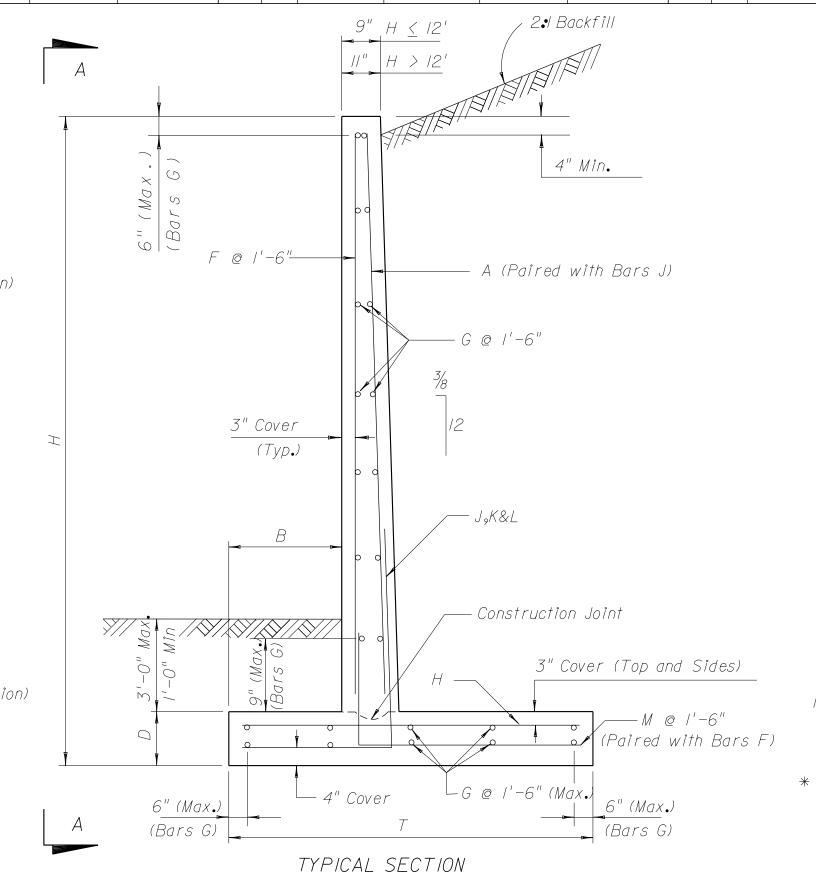
DATE BY DESCRIPTION DATE BY DESCRIPTION DRAWN BY CHECKED BY	NAMES DATES M:1. 3/87 M.P. 3/87 STRUCTURES DESIGN OFFICE	FLORIDA DEPARTMENT OF TRANSPORTATION STRUCTURES DESIGN OFFICE	CASE III (3.5 KIPS/SQ.FT.MAX.BEARING PRESSURE) 6 FT.TO 30 FT.HEIGHT	DRAWING NO.
DESIGNED BY CHECKED BY APPROVED BY	605 Suwannee Street, MS 33 Tallahassee, Florida 32399-0450	ROAD NO. COUNTY PROJECT NO.	PROJECT NAME:	INDEX NO. 8/3

ED. ROAD DIV. NO.	STATE	PROJECT NO.	FISCA YEAR	_ SHEET NO∙
3	FLA.			

							RETAINING WALL DATA					
WALL DIMENSIONS		REINFORCING STEEL SCHEDULE										
H B D T	BARS A	BAF	7S D*	BARS F	BARS G	BARS H	BARS J	BARS K	BARS L		BARS M	
	SIZE NO. LENGT	H SIZE NO.	LENGTH SIZ	ZE NO. LENGTH S	IZE NO. LENGTH SIZE NO.	SPACING LENGT	TH SIZE NO. SPACING a b LENGT	TH SIZE NO. SPACING a b	LENGTH SIZE NO. SPACING a b	LENGTH SIZE NO.	C LENGTH	
#83 8" //" 2'-/0" -	+24	+ 25 4	1'-6"+4	6 17 4'-7"+	27 14 24 ' - 6 " + 28 18	1'-5" 2'-4"	' +29 25 1'- 0" 5'- 5" 1'- 1" 6'- 6"	+30	+31	+32 17	1'-8"3'-10"6	
7 9" //" 3 ' - 5"		6 5	1'-6" 4	17 5'-7"	4 16 24 ' - 6 " 4 18	1'-5" 2'-11"	' 4 25 1'- 0" 6'- 5" 1'- 2" 7'- 7"			4 17	2'-2" 4'-4" 7	
8 11" 11" 3 -11"		6 5	1'-6" 4	17 6'-7"	4 16 24 ' - 6 " 4 18	1'-5" 3'-4"	' 4 25 1 ' - 0" 7 ' - 5" ' - 4" 8 ' - 9"			4 17	2'-6" 4'-8" 8	
9 1 ' - 2" 1 1 4 - 4"		6 6	1'-6" 4		4 20 24 ' - 6 " 4 18	/'-5" 3'-/0"	' 4 28			4 17	2'-8" 4'-10" 9	
10 1'- 2" 11" 4'-10"		6 7	1'-6" 4	17 8'-7"	4 22 24' - 6" 4 25	/ ' - 0'' 4' - 4''	' 4 30 10" 9' - 5" 1 ' - 8" 11 ' - 1"			4 17	3'-2" 5'-4"10	
		6 7	1'-6" 4	17 9'-7"	4 22 24' - 6" 4 34	9" 4'-/0"	' 5 25 1'- 0" 10'- 5" 1'-11" 12'- 4"			4 17	3'-6" 5'-8"1	
12 1'- 6" 1'- 0" 5'- 9"		6 8	1'-6"4	17 10'-6"	4 26 24' - 6" 4 34	9" 5'- 3"	' 5 34 9" 1 ' - 5" 2 ' - 1" 3 ' - 6"			4 17	3'-9"5'-11"12	
13 ' - 7" ' - 0" 6 ' - 3"		6 9	1'-6"4	17 / / / - 6"	4 28 24' - 6" 4 43	7" 5'- 9"	' 5 34 9" 2' - 5" 2' - 4" 4' - 9"			4 17	4'-2"6'-4"13	
14 1'-8"1'-0"6'-9"		6 9	1'-6"4	17 12' - 6"	4 28 24' - 6" 4 60	5" 6'- 3"	' 5 43 7" 3' - 5" 2' - 6" 5' - 1"			4 17	4'-7"6'-9"14	
15 1'-10" 1'- 0" 7'- 4"		6 10	1'-6"4	17 13' - 6"	4 32 24' - 6" 5 43	7'' 6'-10''	' 5 25 ' - 0" 4' - 5" 2' - 8" 7' - "	5 24 1'-0" 5'-9"2'-8" 8	3'-5"	4 17	5'-0"7'-2"15	
16 2'- 1" 1'- 0" 8'- 2"	5 20 14'- 6	6" 6 11	1'-6"4	17 14' - 6"	4 34 24' - 6" 5 60	5" 7'-8"	' 5 20 1'- 3" 2'-10" 2'-11" 5'- 9"	5 19 1 ' - 3" 4 ' - 9" 2 ' - 1 1" 7	7'-8" 5 /9 /'-3"/0'-9"2'-//"/	3'-8" 4 17	5'-7"7'-9"16	
17 2'- 4" '- 2" 8'-10"	6 17 15'-	4" 6 11	1'-6"4	17 15' - 4"	4 36 24' - 6" 5 50	6" 8'- 4"	' 6 17 1 ' - 6" 3 ' - 5" 3 ' - 3" 6 ' - 8"	6 16 1' - 6" 5' - 4" 3 ' - 3" 8	8'-7" 6 16 1'-6" 8'-4"3'-3"1	' ' - 7'' 4 17	6'-0"8'-2"17	
18 2' - 6" ' - 2" 9' - 10"	6 20 16'-	4" 6 12	1'-6"4	17 16'-4"	4 38 24' - 6" 5 60	5" 9'- 4"	' 6 20 1'- 3" 3'- 5" 3'- 5" 6'-10"	6 19 1 ' - 3" 5 ' - 4" 3 ' - 5" 8	8'-9" 6 19 1'-3" 8'-4" 3'-5"	1 - 9" 4 17	6'-10" 9'- 0" 18	
19 2'-11" '- 8" 0'- 8"	6 17 16'-10	0" 6 12	1'-6"4	17 16'-10"	4 40 24' - 6" 5 38	8" 0'-2"	" 7 17 1' - 6" 4' - 10" 3 ' - 11" 8 ' - 9"	7 16 1' - 6" 6' - 5" 3' - 1 1" (0'-4" 7 16 1'-6"10'-5"3'-11"1	4'-4" 4 17	7'- 3" 9'- 5" 19	
20 3'- 4" '- 8" '- 3"	6 19 17'-10	0'' 6 13	1'-6"4	17 17 '-10"	4 42 24' - 6" 5 43	7" 0'-9"	" 7 /9 / '- 4" 4' - / 0" 4' - 3" 9' - / "	7 18 1 ' - 4" 7 ' - 5" 4 ' - 3" 1	1'-8" 7 18 1'-4" 11'-5" 4'-3"	5'-8" 4 17	7'-5"9'-7"20	
21 3'- 8" 1'- 8" 12'- 0"	6 17 18'-10	0'' 6 14	1'-6"4	17 18'-10"	4 46 24' - 6" 5 50	6" // - 6"	" 8 17 1 ' - 6" 5 ' - 1 1" 4 ' - 8" 10 ' - 7"	8 16 1 ' - 6" 9 ' - 1" 4 ' - 8" 13	3'-9" 8 16 1'-6" 13'-1"4'-8" 1	7'-9" 4 17	7'-10"10'-0"21	
22 4'- 1" 1'- 8" 12'- 8"	6 19 19'-10	0'' 6 14	1'-6"4	17 19'-10"	4 46 24' - 6" 5 60	5" 2' - 2'	" 8 /9 / - 4" 6' - / "5' - 2" / / ' - 3"	8 18 1 ' - 4" 9 ' - 1" 5 ' - 2" 2	4'-3" 8 18 1'-4" 14'- 1"5'-2"	9'-3" 4 17	8'- '' 10'- 3'' 22	
23 4'-6"2'-2"13'-8"	6 20 20 '	4" 6 15	1'-6"4	17 20' - 4"	4 50 24' - 6" 5 43	7" 3' - 2'	" 8 20 1'- 3" 6'- 7" 5'- 7" 12'- 2"	8 19 1 ' - 3" 9 ' - 7" 5 ' - 7" 5	5'-2"	0'-2" 4 17	8'-8" 0'-10"23	
24 4'-11"2'-2"14'-4"	6 19 21'	4" 6 15	1'-6"4	17 21' - 4"	4 50 24' - 6" 5 50	6" 3'-10'	" 9 9 1 - 4" 7 - 8" 6 - 0" 3 - 8"	9 18 1 ' - 4" 1 ' - 3" 6 ' - 0"	7'-3" 9 18 1'-4" 16'-3" 6'-0" 2	2'-3" 4 17	8'-//"//-/"24	
25 5' - 4" 2' - 2" 15' - 3"	6 20 22'	4" 6 16	1'-6"4	17 22' - 4"	4 54 24' - 6" 5 50	6" 4'-9"	" 9 20 1'- 3" 7'- 8"6'- 6" 14'- 2"	9	7'-9" 9 19 1'-3" 17'-3"6'-6"2	3'-9" 4 17	9'-5"//-7"25	
26 5'-8"2'-2"16'-0"	7 20 23'-	4" 6 17	1'-6"4	17 23' - 4"	4 56 24' - 6" 5 60	5" /5'-6"	" 9 20 1'- 3" 8'- 2" 6 '-10" 15 '- 0"	9 19 1' - 3" 2' - 3" 6' - 10"	9'-1" 9 19 1'-3" 18'-3" 6'-10" 2	5'-1" 4 17	9'-10" 2'- 0" 26	
27 6'-1"2'-8"17'-0"	7 20 23'-10	0'' 6 17	1'-6"4	17 23'-10"		5" 6'-6'	" 9 20 1'- 3" 8'- 8"7'- 4" 16'- 0"	9 19 1' - 3" 2' - 9" 7' - 4" 2	9 19 1'- 3" 18'- 9" 7'- 4" 2	6'-1" 4 17	10'-5"12'-7"27	
28 6' - 6" 2' - 8" 17' - 9"					4 62 24' - 6" 5 60	5" 7' - 3'	" 10 19 1' - 4" 9' - 2" 7 - 9" 16 - 1 "	10 18 1 ' - 4" 3' - 9" 7 ' - 9" 2	7 - 6" 10 18 1' - 4" 19' - 9" 7' - 9" 2		10'-9"12'-11"28	
29 6'-11"2'-8"18'-7"					4 62 24' - 6" 5 60	5" 8'-		10 19 1'- 3" 14'- 9" 8'- 2" 2		8'-//" 4 /7	11'-2"13'-4"29	
30 7'-5"3'-2"19'-8"						6" 19'- 2'	"				11'-9"13'-11"30	

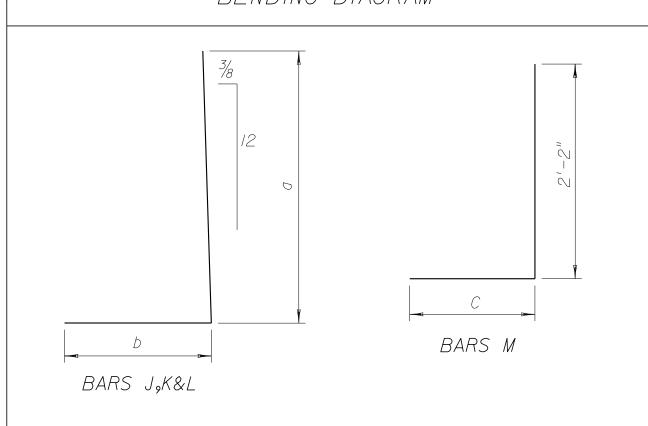
	OUANTITIEC									
		QUANTI	11ES							
H	CONCRETE / 25' UNIT	STEEL / 25' UNIT	CONCRETE PER LIN.FT.	STEEL PER LIN.FT.						
	C.Y.	LBS.	C.Y.	LBS.						
#83	6.31	470	0.25	18						
7	7.66	547	0.3/	21						
8	8.97	587	0.36	23						
9	10.24	7 / 6	0.41	28						
10	11.60	828	0.46	33						
/ /	13.00	980	0.52	39						
12	14.71	1227	0.59	49						
13	18.06	1369	0.72	54						
14	19.73	1661	0.79	66						
15	21.51	1745	0.86	69						
16	23.55	2/58	0.94	86						
17	26 .6 /	236 /	1.06	94						
18	29.01	2801	1.16	112						
19	35.52	2923	1.42	116						
20	37 .78	3377	1.5/	/ 35						
21	40.34	4018	1.61	160						
22	42.79	4634	/ .7 /	185						
23	51.38	4849	2.06	193						
24	54.18	5850	2.17	234						
25	57 .52	6389	2.30	255						
26	60.55	7 / 53	2.42	286						
27	71.20	7478	2.85	299						
28	74.61	9001	2.98	360						
29	78.27	9783	3./3	39 /						
30	90.86	10513	3.63	420						





To accommodate the Variable Height of a wall Unit, vertical Bars may be field cut to fit and the number of horizontal Bars G required by the highest wall dimension within a 25' Unit shall be equally spaced at each end of the Unit.

BENDING DIAGRAM



NOTE: All bar dimensions are out to out.

NOTE• Bars M are paired with Bars F and Bars A are paired with Bars J. Bars F and M are No.4 Bars. Bars J are as shown.

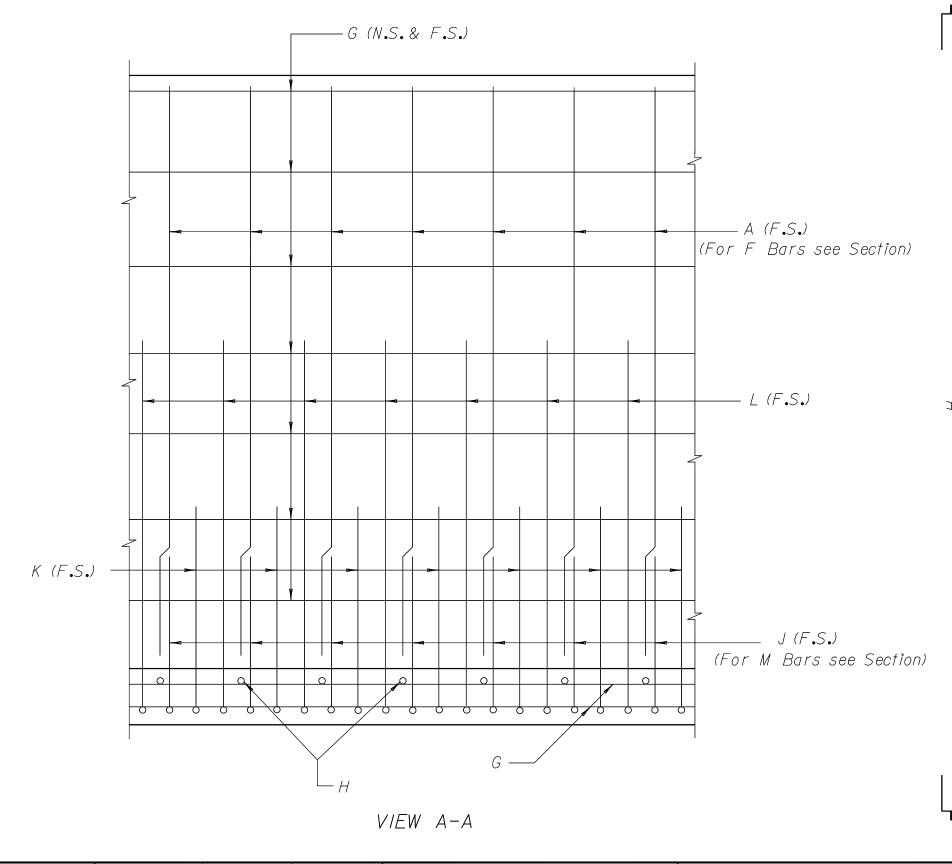
* NOTE•For placement details for Bars D see Standard Index No.800.

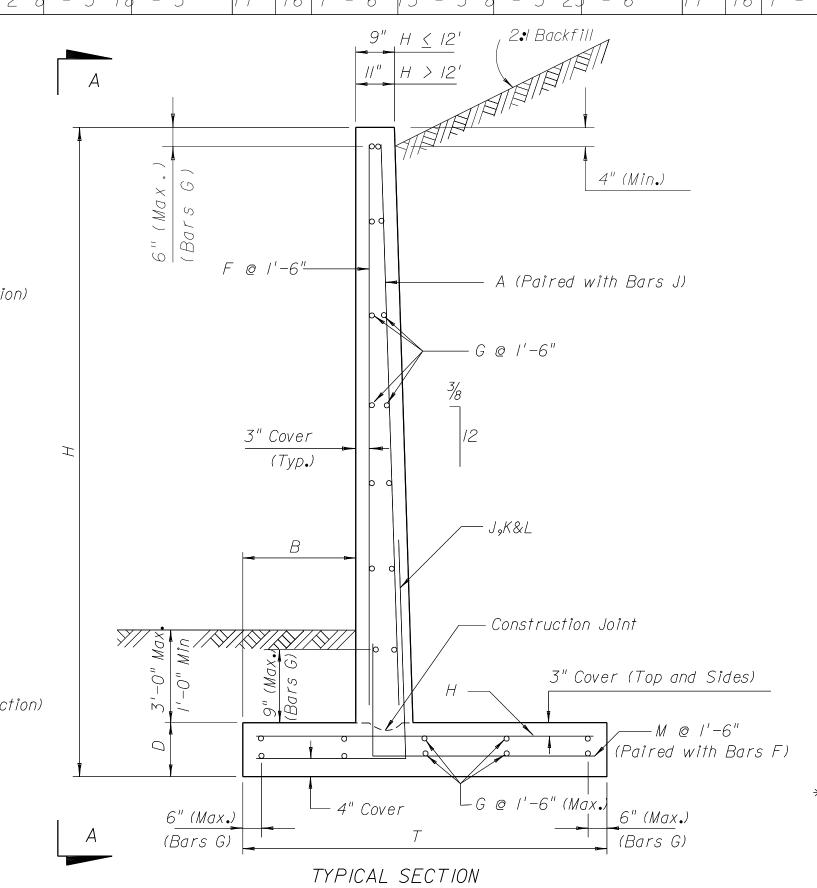
REVISIONS	NAMES DATES	ENGINEER OF RECORD: LOGO: SEAL:	SHEET TITLE:	DRAWING NO.
DATE BY DESCRIPTION DATE BY DESCRIPTION	DRAWN BY		FLORIDA DEPARTMENT OF TRANSPORTATION CASE III (4.0 KIPS/SQ.FT.MAX.BEARING	l of l
90R	CHECKED BY M.P. 3/87	STRUCTURES DESIGN OFFICE	STRUCTURES DESIGN OFFICE PRESSURE) 6 FT. TO 30 FT. HEIGHT	107 1
	DESIGNED BY .	605 Suwannee Street, MS 33	PROJECT NAME *	INDEX NO.
	CHECKED BY	Tallahassee, Florida 32399-0450	ROAD NO. COUNTY PROJECT NO.	QIA
	APPROVED BY A.G.M.			014

ED. ROAD DIV. NO.	STATE	PROJECT NO.	FISCA YEAR	_ SHEET NO∙
3	FLA.			

						RETAINING WALL DATA					
WALL DIMENSIONS	REINFORCING STEEL SCHEDULE										
H B D T	BARS A	BARS D	* BARS F	BARS G	BARS H	BARS J	BARS K	BARS L		BARS M	
	SIZE NO. LENGTH	SIZE NO. LENG	STH SIZE NO. LENGT	TH SIZE NO. LENGTH SIZE NO.	SPACING LENGTH	H SIZE NO. SPACING a b LENGT	H SIZE NO. SPACING a b	LENGTH SIZE NO. SPACING a b	LENGTH SIZE NO.	C LENGTH	
6 8" 11" 2'-10"		6 4 1'-	- 6" 4 17 4' -	7" 4 14 24' - 6" 4 18	1'-5" 2'-4"	4 25 1'- 0" 5'- 5" 1'- 1" 6'- 6"			4 17	1'-8"3'-10"6	
7 9" //" 3 ' - 5"		6 5 1'-	- 6" 4 17 5' -	7" 4 16 24' - 6" 4 18	1'-5" 2'-11"	4 25 1'- 0" 6'- 5" 1 '- 2" 7 '- 7"			4 17	2'-2" 4'-4" 7	
8 11" 11" 3 '-11"		6 5 1'-	- 6" 4 17 6' -	7" 4 16 24' - 6" 4 18	1'-5" 3'-4"	4 25 1'- 0" 7'- 5" 1 '- 4" 8 '- 9"			4 17	2'-6" 4'-8" 8	
9 1 ' - 2" 1 ' 4 - 4"		6 6 1'-	- 6" 4 17 7' -	7" 4 20 24' - 6" 4 18	1'-5" 3'-10"	4 28 11" 8' - 5" 1 ' - 8" 10 ' - 1"			4 17	2'-8" 4'-10" 9	
10 1 ' - 2" 11" 4 -10"		6 7 / ' -	- 6" 4 17 8' -	7" 4 22 24' - 6" 4 28	/ / " 4 ' - 4 ''	4 30 10" 9' - 5" 1 ' - 8" 1 1 ' - 1"			4 17	3'-2" 5'-4"10	
		6 7 1 '-	- 6" 4 17 9' -	7" 4 22 24' - 6" 4 34	9" 4'-10"	5 25 1' - 0" 0' - 5" ' - 11" 2' - 4"			4 17	3'-6" 5'-8"1	
12 1'- 6" 1'- 0" 5'- 9"		6 8 / ' -	- 6" 4 17 10' -	6" 4 26 24' - 6" 4 34	9" 5'- 3"	5 34 9" 1' - 5" 2' - 1" 13' - 6"			4 17	3'-9"5'-11"12	
[13] 1' - 7" 1' - 0" 6' - 3"		6 9 1'-	- 6" 4 17 11' -	6" 4 28 24' - 6" 4 43	7" 5'- 9"	5 34 9" 2' - 5" 2' - 4" 4' - 9"			4 17	4'-2" 6'-4"/3	
14 1 ' - 8" 1 ' - 0" 6 ' - 9"		6 9 1'-	- 6" 4 17 12' -	6" 4 28 24' - 6" 4 60	5" 6' - 3"	5 43 7" 3' - 5" 2' - 6" 5' - 1"			4 17	4'-7" 6'-9"14	
15 1'-10" 1'- 0" 7'- 2"		6 /0 / '-	- 6" 4 17 13' -	6" 4 32 24' - 6" 5 43	7" 6'-8"	5 25 1' - 0" 4' - 5" 2' - 8" 7' - 1"	5 24 1 ' - 0" 5 ' - 9" 2 ' - 8" 8	3 ' - 5''	4 17	4'-10" 7'- 0" 15	
16 1 ' - 1 1 ' - 0 '' 7 ' - 7 ''	5 20 14' - 6	" 6 // / -	- 6" 4 17 14' -	6" 4 34 24' - 6" 5 60	5" 7'- 1"	5 20 1'- 3" 2'-10" 2'- 9" 5'- 7"	5 19 1 ' - 3" 4 ' - 9" 2 ' - 9" 7	7 - 6" 5 19 1 ' - 3" 0 ' - 9" 2 ' - 9" 1	3'-6" 4 17	5'-2"7'-4"16	
17 2'- 2" '- 2" 8'- 4"	6 17 15' - 4	" 6 // / -	- 6" 4 17 15' -	4" 4 34 24' - 6" 5 50	6" 7'-10"	6 17 1 ' - 6" 3 ' - 5" 3 ' - 1" 6 ' - 6"	6 16 1' - 6" 5' - 4" 3 ' - 1" 8	8 ' - 5" 6 16 1 ' - 6" 8 ' - 4" 3 ' - 1"	/ ' - 5" 4 / 7	5'-8"7'-10"17	
18 2' - 4" ' - 2" 9' - 2"	6 20 16' - 4	" 6 12 1 ' -	- 6" 4 17 16' -	4" 4 38 24' - 6" 5 60	5" 8'-8"	6 20 1'- 3" 3'- 5" 3'- 3" 6'- 8"	6 19 1 ' - 3" 5 ' - 4" 3 ' - 3" 8	3 ' - 7" 6 19 1 ' - 3" 8 ' - 4" 3 ' - 3" 1	/ ' - 7" 4 / 7	6'-4"8'-6"18	
19 2'- 9" '- 8" 9'- "	6 17 16 ' - 10	" 6 /2 / ' -	- 6" 4 17 16' - 1	10" 4 38 24' - 6" 5 43	7" 9'- 5"	7 17 1' - 6" 4' - 10" 3 ' - 9" 8 ' - 7"	7 16 1 ' - 6" 6 ' - 5" 3 ' - 9" 1	0'-2" 7 16 1'-6" 10'-5"3'-9" 1	4'-2" 4 17	6'-8"8'-10"19	
20 3'- 1" 1'- 8" 10'- 7"	6 19 17'-10	" 6 13 1 ' -	- 6" 4 17 17 ' - 1	10" 4 42 24' - 6" 5 50	6" 0'- "	7 19 1 ' - 4" 4 ' - 10" 4 ' - 1" 8 ' - 11"	7 18 1 ' - 4" 7 ' - 5" 4 ' - 1"	1'-6" 7 18 1'-4" 1'-5"4'-1"	5'-6" 4 17	7'-0"9'-2"20	
21 3' - 5" ' - 8" ' - "	6 17 18'-10	" 6 14 1 ' -	- 6" 4 17 18' - 1	10" 4 44 24' - 6" 5 50	6" 10' - 7"	8 17 1' - 6" 5' - 11" 4' - 5" 10' - 4"	8 16 1 ' - 6" 9 ' - 1" 4 ' - 5" 1.	3'-6" 8 16 1'-6" 3'-1"4'-5"	7'-6" 4 17	7'-2"9'-4"2	
22 3'- 9" '- 8" '- "	6 19 19'-10	" 6 14 1 ' -	- 6" 4 17 19' - 1	10" 4 46 24' - 6" 5 60	5" //' - 5"	8 19 1 ' - 4" 6 ' - 1" 4 ' - 10" 10 ' - 11"	8 18 1' - 4" 9' - 1" 4' - 10" 1.	3'- " 8 8 '- 4" 4'- "4'- 0"	8'-11" 4 17	7'-8"9'-10"22	
23 4'- 2" 2'- 2" /2'- 9"	6 20 20' - 4	" 6 /5 / '-	- 6" 4 17 20 ' -	4" 4 48 24' - 6" 5 50	6" 2' - 3"	8 20 1'- 3" 6'- 7" 5'- 3" 11'-10"	8 19 1 ' - 3" 9 ' - 7" 5 ' - 3" 1	4'-10" 8 19 1'- 3" 4'- 7" 5'- 3"	9'-10" 4 17	8'- " 10'- 3" 23	
24 4' - 7" 2' - 2" / 3' - 6"	6 19 21' - 4	" 6 15 1 ' -	- 6" 4 17 21 ' -	4" 4 50 24' - 6" 5 50	6" 3' - 0"	9 19 1' - 4" 7' - 8" 5 - 8" 13 - 4"	9 18 1 ' - 4" 1 ' - 3" 5 ' - 8"	6'-11" 9 18 1'- 4" 16'- 3" 5'- 8" 2	7 ' - 4	8'-5" 10'-7"24	
25 4'-11"2'-2"14'-2"	6 20 22' - 4	" 6 16 1'-	- 6" 4 17 22" -	4" 4 52 24' - 6" 5 60	5" 3' - 8"	9 20 1'- 3" 7'- 8"6'- 1" 13'- 9"	9 19 1' - 3" 11' - 3" 6' - 1"	7'-4" 9 19 1'-3" 17'-3"6'-1"2	3'-4" 4 17	8'-9"10'-11"25	
26 5'- 3" 2'- 2" /5'- 0"	7 21 23' - 4	" 6 17 1 ' -	- 6" 4 17 23' -	4" 4 56 24' - 6" 5 60	5" 4' - 6"	9 20 1'- 3" 8'- 2" 6'- 5" 14'- 7"	9 19 1' - 3" 2' - 3" 6' - 5"	8'-8" 9 19 1'-3" 18'-3" 6'-5" 2	24'-8" 4 17	9'- 3" - 5" 26	
27 5'-8"2'-8"15'-10"	7 21 23'-10	" 6 17 1 ' -	- 6" 4 17 23' - 1	10" 4 56 24' - 6" 5 60	5" 5' - 4"	9 20 1'- 3" 8'- 8" 6 '-11" 15 '- 7"	9 19 1' - 3" 2' - 9" 6' - 11"	9'-8" 9 19 1'-3" 18'-9"6'-11"2	5'-8" 4 17	9'-8" -10"27	
28 6'- 1"2'- 8" 16'- 8"	8 19 24'-10	" 6 18 1 ' -	- 6" 4 17 24 ' - 1	10" 4 60 24' - 6" 5 60	5" 6' - 2"	10 19 1 ' - 4" 9 ' - 2" 7 ' - 4" 16 ' - 6"	10 18 1 ' - 4" 3' - 9" 7 ' - 4" 2	21'-1" 10 18 1'-4" 19'-9"7'-4" 2	7'-1" 4 17	10'-1"12'-3"28	
29 6'- 5" 2'- 8" 17'- 6"	8 20 25'-10	" 6 18 1 ' -	- 6" 4 17 25 ' - 1	10" 4 60 24' - 6" 5 60	5" 7'-0"	10 20 1'- 3" 9'- 8"7'- 8"17'- 4"	10 19 1' - 3" 14' - 9" 7' - 8" 2	22'-5" 10 19 1'-3" 20'-9"7'-8" 2	8'-5" 4 17	10'-7"12'-9"29	
30 6'-11" 3'- 2" 18'- 5"	8 17 26 ' - 4	" 6 /9 / '-	- 6" 4 17 26 ' -	4" 4 64 24' - 6" 6 50	6" 7'- "			23'-6"	9'-6" 4 17	11'-0"13'-2"30	

		QUANTI	TIES	
	CONCRETE / 25' UNIT	STEEL / 25' UNIT	CONCRETE PER LIN.FT.	STEEL PER LIN.FT.
H	C.Y.	LBS.	C.Y.	LBS.
6	6.31	470	0.25	18
7	7.66	547	0.3/	21
8	8.97	587	0.36	23
9	10.24	716	0.41	28
10	11.60	837	0.46	33
/ /	13.00	980	0.52	39
12	14.71	1227	0.59	49
13	18.06	1369	0.72	54
14	19.73	1706	0.79	68
15	21.35	1734	0.85	69
16	23.01	2107	0.92	84
17	26 .07	2286	1.04	9 /
18	28.29	27 39	1.13	109
19	34.36	2886	1.37	115
20	36 .76	3397	1.47	/ 35
21	38.92	3897	1.56	155
22	41.63	4533	1.67	181
23	49.54	4806	1.98	192
24	52.51	5739	2.10	229
25	55.34	6352	2.21	254
26	58.54	7049	2.34	281
27	68.31	7 3 3 0	2.73	293
28	71.94	8794	2.88	35 /
29	75.59	9551	3.02	382
30	87 .19	10248	3.49	409





To accommodate the Variable Height of a wall Unit, vertical Bars may be field cut to fit and the number of horizontal Bars G required by the highest wall dimension within a 25' Unit shall be equally spaced at each end of the Unit.

NOTE• Bars M are paired with Bars F and Bars A are paired with Bars J. Bars F and M are No.4 Bars. Bars J are as shown.

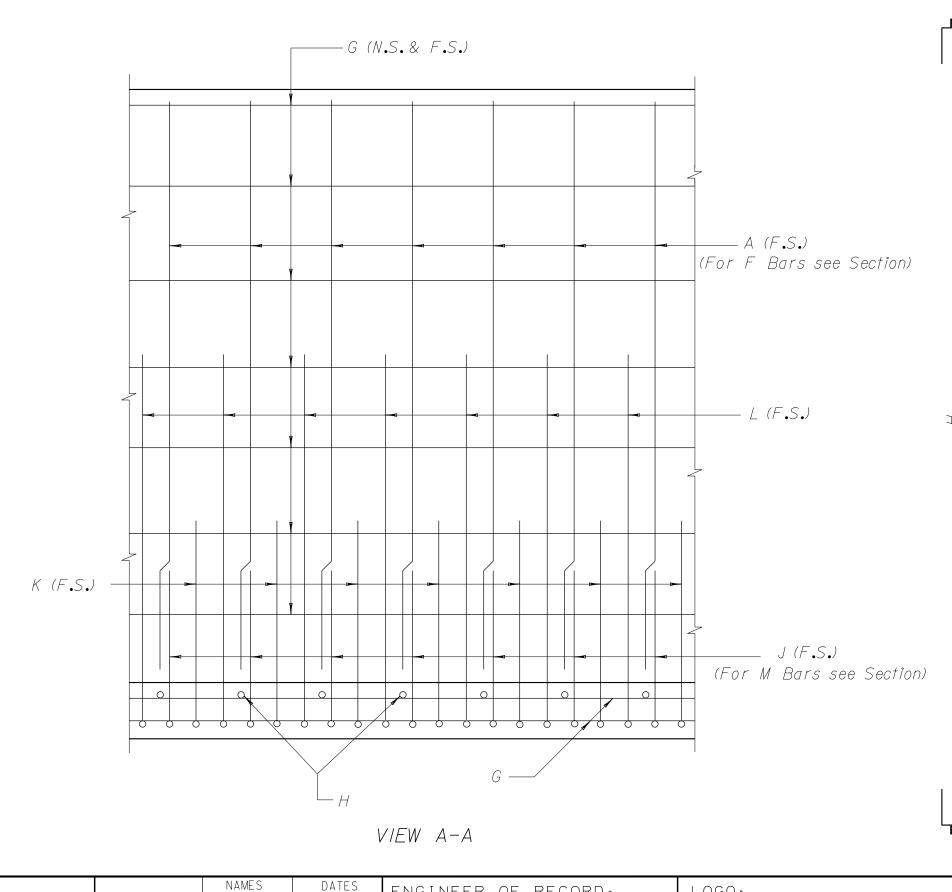
* NOTE• For placement details for Bars D see Standard Index No. 800.

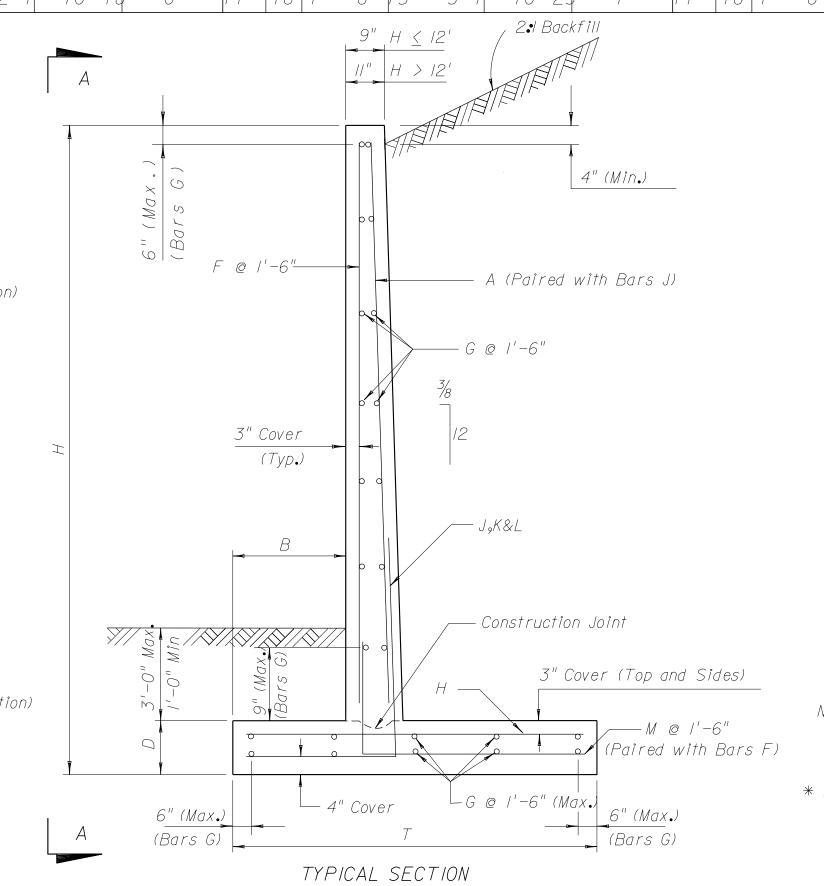
DATE	BY DESCRIPTION	ISIONS DATE BY DESCRIPTION	22.100.20	NAMES DATES ENGINEER OF RECOR	LOGO:	SEAL 8	FLORIDA DEPARTMENT OF	TRANSPORTATION	CASE III (4.5 KIPS/SQ.FT.MAX.BEARING	DRAWING NO.
DATE	DI DESCRIPTION	90R	DRAWN BY CHECKED BY	M.1. 3/8/ M.P. 3/87			STRUCTURES DE		PRESSURE) 6 FT. TO 30 FT. HEIGHT	1011
			DESIGNED BY CHECKED BY		·		ROAD NO. COUNTY	PROJECT NO.	PROJECT NAME:	INDEX NO.
			APPROVED BY	A.G.M.				,		8/5

ED. ROAD DIV. NO.	STATE	PROJECT NO.	FISCA YEAR	_ SHEET NO.
3	FLA.		•	

																	RETAIN	IING WA	LL DATA													
	WALL DI	IMENSIONS																RE	INFORCING	STEELS	SCHEDULE	-										
H	R	BARS A BARS		BARS D * BARS F			BARS G			BARS H					BARS	J					BARS K			BARS I	L		BAR	S M				
//	D	D I	SIZE NO. L	ENGTH S	IZE NO.	LENGTH	SIZEN	10. LENC	GTH S	SIZE NC	LENGTH	SIZE NO	• SPACING	ENG	STH S	IZE NO.	SPACING	а	Ь	LENGTH	H SIZE NC	SPACII	'NG	a b LEN	NGTH S	IZE NO. SPACING	а	b LENGTH	SIZE NO.	С	LENGT	' ' ' '
6		11" 2 -10"			6 4						1 24' - 6"																		4 17	/ / -	8" 3'-10'	6
7		11" 3 - 5"			6 5						6 24' - 6"																		4 17		2" 4' - 4'	
8		/ / '' 3 ' - / / ''			6 5						6 24' - 6"					4 25	/ ' - 0''	7'-5	" / ' - 4"	8 ' - 9''									4 17		6'' 4' - 8'	
					6 6						24'-6"					4 28			" / ' - 8" /										4 17		8" 4'-10'	
		11" 4 -10"			6 7						2 24' - 6"			4'- 2		4 30	10"	9'-5	" / ' - 8" /	/ / - / //									4 17		2" 5' - 4'	
		11" 5 - 4"			6 7						2 24' - 6"			4'-/(5 25			" / ' - / / "										4 17		6" 5' - 8'	
		'- 0" 5'- 9"			6 8						6 24' - 6"			5'-3		5 34	9"	/ / ' - 5	"2'- /"	/3'-6"									4 17	3'-	9" 5'-//	12
		'-0"6'-3"			6 9	1'-6'	'' 4 /	7 // // -	- 6"	4 28	3 24' - 6"	4 43		5'-9		5 34	9"	12'- 5	"2'-4"	14'-9"									4 17	4 ' -	2" 6' - 4'	' / 3
14	' - 8'' /	<u>'-0"6'-9"</u>			6 9	/ ' - 6'	4 /	17 12'-	- 6"	4 28	3 24' - 6"	4 60	5'	6'-3	3'' ;	5 43	7 ''	/ 3 ' - 5	"2'-6"	15'-//''									4 17	4'-	7'' 6' - 9'	' / 4
		<u>'-0"7'-2"</u>			6 10						2 24' - 6"		7 '	6'-8	3" ;	5 25	/ ' - 0''	14'- 5	"2'-8"	/7'-/"	5 24	1	0" 5	5'-9"2'-8"8 -5					4 17	4 ' -	-/0" 7'- 0'	' / 5
		'-0"7'-7"	5 20 14	1'-6"	6 10	1'-6'	'' 4 /	17 14 ' -	- 6"	4 34	1 24' - 6"	5 60	5'	7'-	/ ''	5 20	/ ' - 3''	2'-10	"2'-9"	5 - 7	5 19	9 / ' - 3	3'' 4	4'-9"2'-9"7'-6	ĵ ''	5	10'-9"	2'- 9" / 3' - 6"	4 17	5 ' -	2" 7' - 4'	' / 6
17 2	2'-2"/	'- 2" 8'- 2"	6 17 15	5'-4"	6 11						1 24' - 6"			7'- 8		6 17	/ ' - 6 ''	3'-5	" 3 ' - / "	6 ' - 6 ''	6 16	6 1'- 6	6" <u>5</u>	5'-4"3 '- "8 '-5	5 ''	6 16 1 ' - 6''	8'-4"3	3 ' - 1" 11 ' - 5"	4 17	5 ′ -	6" 7' - 8'	' / 7
18 2	2'-2"/	'- 2" 8'- 9"	6 20 16	5'-4"	6 //	/ ' - 6'	4 /	7 16'-	- 4"	4 38	3 24' - 6"	6 50	6'	8'-3	3''	6 20	/ ' - 3''	3'-5	" 3 ' - / "	6 ' - 6 ''	6 19	9 / ' - 3	3" 5	5'-4"3'-1"8'-5	5 ''	6	8'-4"3	3 ' -	4 17	6 ' -	- /'' 8' - 3'	' 18
19 2	2'-6"/	<u>' - 8" 9' - 4"</u>	6 17 16	5'-/0"	6 12	/ ' - 6'	4 /	7 16'-	-/0"	4 38	3 24' - 6"	6 30	10'	8'-10)"	7 17	/ ' - 6 ''	4'-10	" 3 ' - 6 "	8 ' - 4''				<u>6'- 5" 3'- 6" 9 -11</u>		7 16 1 ' - 6''	10'-5".	3'-6"/3'-//"	4 17	6 ' -	4'' 8' - 6'	' / 9
20 2	2'-/0"/	'- 8" 9'-//"	6 19 17	' ' - / 0 ''	6 12	1'-6'	4 /	7 17 ' -	- / 0 ''	4 40	24'-6"	6 34	9'	9'- 5	5"	7 19	/ ' - 4''	4'-10	" 3 ' - / 0 "	8 ' - 8''	7 18	3 / ' - 4	4'' 7	7'-5"3'-10"11'-3	3"	7 18 1 ' - 4''	/ / ' - 5" .	3'-10" 15'- 3"	4 17	6 ' -	- 7'' 8' - 9'	' 20
21 3	3'-2"/	<u>' - 8" 0 ' - 7"</u>	6 17 18	3'-/0"	6 / 3	1'-6'	4 /	17 18 ' -	- / 0 ''	4 42	1 24' - 6"	6 38	8'	' / 0 ' -	/ ''	8 17	/ ' - 6''	5'-//	" 4 ' - 2" 1	0'-/"	8 16	6 1'- 6	6" <u>9</u>	9'- "4'- 2" 3'- 3	3"	8 16 1 ' - 6''	/3'-/"	4'-2"17'-3"	4 17	6 ' -	-//" 9'- /'	'2/
22 3	8'-6"/	'-8"//-2"	6 /9 /9	9'-/0"	6 14	/ ' - 6'	4 /	7 /9 '-	-/0"	4 44	1 24' - 6"	6 43	7 '	/ / / / -	8" (8 /9	/ ' - 4''	6'-/	" 4 ' - 7 " /	0'-8"	8 18	3 / ' - 4	4" 9	9'- "4 '- 7" 3 ' - 8	8"	8 18 1 ' - 4''	/4'-/"	4'-7"/8'-8"	4 17	7 ' -	2" 9' - 4'	' 22
23 3	3'-//"2	'- 2" ' - "	6 20 20) ' - 4''	6 14	/ ' - 6'	4 /	7 20 ' -	- 4"	4 48	3 24' - 6"	6 34	9'	′ / / ′ –	5" (8 20	/ ' - 3''	6'-7	" 5 ' - 0" /	/ / - 7 //	8 19	9 / ' - 3	3" 9	9'-7"5 '-0"14 '-7	7"	8 19 1 ' - 3''	/4'-7";	5'-0"19'-7"	4 17	7 ' -	6" 9' - 8'	' 23
24 4	! ' - 3'' 2	'- 2" 2 '- 7"	6 19 21	' ' - 4''	6 15	1'-6'	" 4 /	7 21'-	- 4"	4 48	8 24' - 6"	6 38	8'	' /2'-	/ "	9 19	/ ' - 4''	7'-8	" 5 ' - 4" /	3'-0"	9 18	3 / ' - 4	4'' / /	1'-3"5'-4"16'-	7 ''	9 18 1 ' - 4''	16'-3":	5'-4"2 '-7"	4 17	7 ' -	-/0"/0'-0	" 24
25 4	! ' - 7 " 2	' - 2" / 3' - 3"	6 20 22	2'-4"	6 15	/ ' - 6'	4 /	17 22 ' -	- 4 "	4 52	2 24 ' - 6 ''	6 43	7'	12'-	9" :	9 20	/ ' - 3''	7'-8	"5'-9"1	3'-5"	9 19	7 1 ' - 3	3'' / /	1'- 3"5'- 9"17'-	0"	9 19 1 ' - 3''	17'-3":	5'- 9"23'- 0"	4 17	8'-	2" 10' - 4	" 25
26 4	1 ' - / / '' 2	' - 2" / 4 ' - / "	7 20 23	3'-4"	6 17	/ ' - 6'	4 /	17 23'-	- 4"	4 54	1 24' - 6"	6 43	7 '	' /3'-	7" :	9 20	/ '- 3''	8'-2	" 6 ' - / " /	4'-3"	9 19	9 1'- 3	3" / 2	2'-3"6'-1"18'-	4"	9 19 1 ' - 3"	18'-3"6	6'-1"24'-4"	4 17	8 ' -	8" 10'-10	" 26
27 5	5'-4"2	<u>' - 8" 5 ' - 0"</u>	7 20 23	3'-/0"	6 17	/ ' - 6'	4 /	17 23'-	- / 0 ''	4 56	6 24' - 6"	6 38	8'	/ 4 ' -	6" !	9 20	/ ' - 3''	8'-8	'' 6 ' - 7 '' 1	5'-3"	9 19	9 1'- 3	3" / 2	2'-9"6'-7"19'-	4''	9 19 1 ' - 3''	18'-9"6	6'-7"25'-4"	4 17	9'-	2" / / ' - 4	7 27
28 5	5'-8"2	' - 8" /5' - 8"	8 19 24	1 -/0"	6 18	/ ' - 6'	4 /	17 24 ' -	- / 0 ''	4 58	3 24' - 6"	6 43	7'	' /5'-	2" /(0 19	/ ' - 4''	9'-2	"6"-//"/	6 ' - / ''	10 18	3 / ' - 4	4" / 3	3'-9"6'-11"20'-	8" /	0 18 1 ' - 4''	19'-9"6	6 ' - 1 1 '' 26 ' - 8 ''	4 17	9'-	- 6" 1 ' - 8	" 28
29 6	5'-0"2	'-8"/6'-7"	8 20 25	5'-/0"	6 /8	/ ' - 6 '	" 4 /	17 25 ' -	-/0"	4 60	0 24' - 6"	6 43	7 '	' /6'-	/ '' / (0 20	/ ' - 3''	9'-8	"7'-3"/	6 '-//''	10 19	9 / ' - 3	3" 4	4'-9"7'-3"22'-	0'' /	0	20'- 9";	7'- 3"28'- 0"	4 17	10'-	- 1" 12' - 3	7 29
30 8	5'-6"3	'- 2" 7'- 5"	8 17 26	5'-4"	6 /9	/ ' - 6'	4 /	17 26 ' -	- 4''	4 62	2 24' - 6"	6 50	6'	/6 '-/	/ " /	/ /7	/ ' - 6"	10'- 2	7 - 10"	18'-0"	11 16	6 1'- 6	6" 5	5'- 3"7'-10"23'-	/ " /	/ /6 / ' - 6"	21'-3";	7'-10"29'- 1"	4 17	/0 '-	5" 2' - 7	¹¹ 30

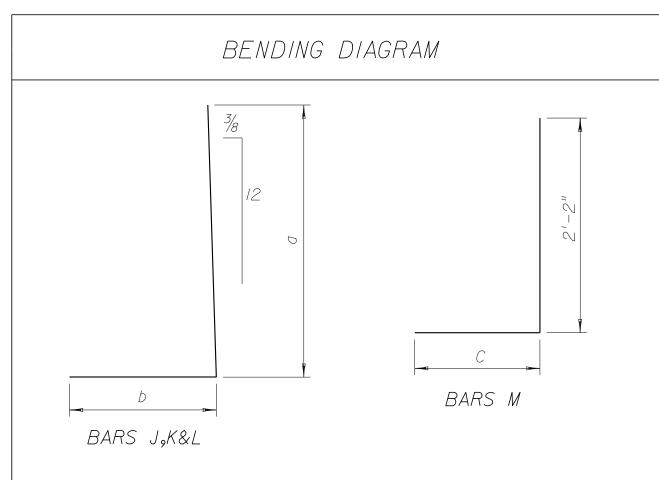
		QUANTI	TIES	
1.1	CONCRETE / 25' UNIT	STEEL / 25' UNIT	CONCRETE PER LIN.FT.	STEEL PER LIN.FT.
Н	C.Y.	LBS.	C.Y.	LBS.
6	6.31	470	0.25	18
7	7.66	539	0.31	21
8	8.97	588	0.36	23
9	10.24	7 / 6	0.41	28
10	11.60	837	0.46	33
/ /	13.00	993	0.52	39
12	14.71	1227	0.59	49
13	18.06	1369	0.72	54
14	19.73	1661	0.79	66
15	21.35	1734	0.85	69
16	23.01	2105	0.92	84
17	25 .89	2276	1.04	9 /
18	27 .84	2797	/ . / /	/ / /
19	33.46	2833	1.34	1 / 3
20	35.73	3284	1.43	131
21	38./5	3883	1.53	155
22	40.47	4432	1.62	177
23	47 .87	4703	1.91	188
24	50.67	5649	2.03	225
25	53.50	6246	2.14	249
26	56 .70	6855	2.27	274
27	66.26	7078	2.65	283
28	69.47	8624	2.78	344
29	73.33	9416	2.93	376
30	84.26	10025	3.37	401





NOTE. To accommodate the Variable Height of a wall Unit, vertical Bars

may be field cut to fit and the number of horizontal Bars G required by the highest wall dimension within a 25' Unit shall be equally spaced at each end of the Unit.



NOTE: All bar dimensions are out to out.

NOTE: Bars M are paired with Bars F and Bars A are paired with Bars J. Bars F and M are No.4 Bars. Bars J are as shown.

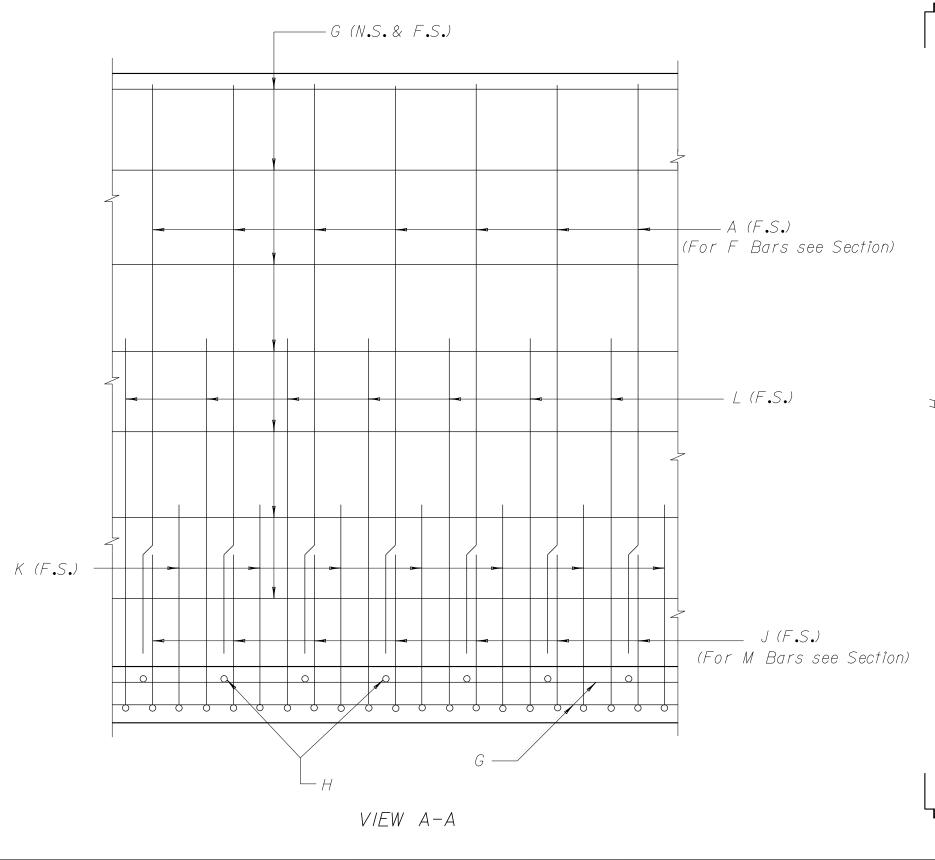
* NOTE: For placement details for Bars D see Standard Index No. 800.

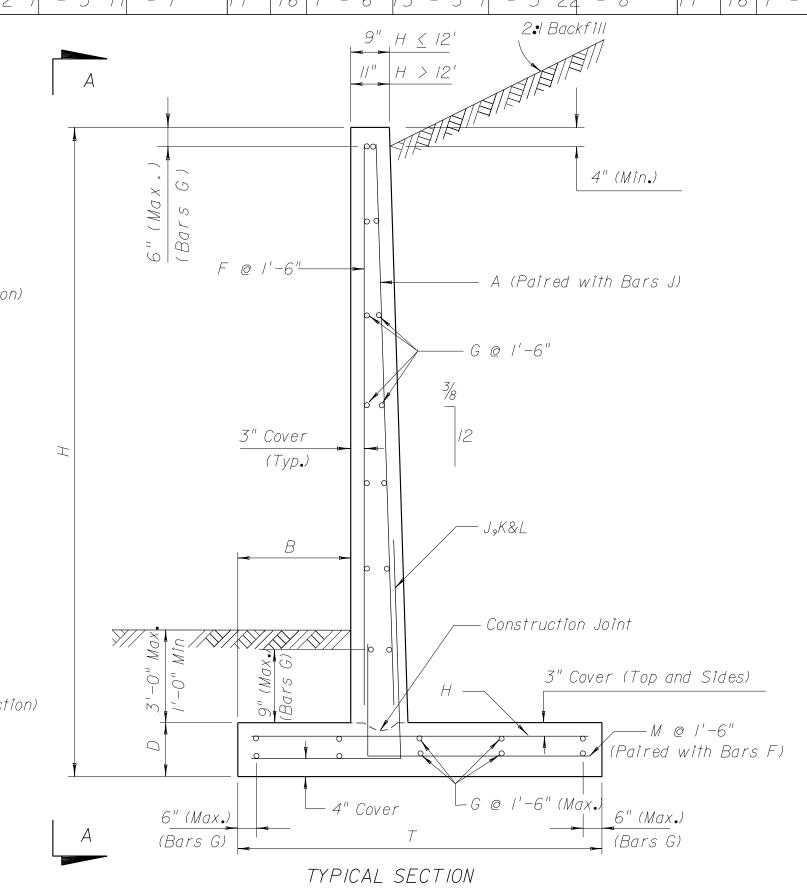
	REVISIONS		NAMES DATES	ENGINEER OF RECORD: LOGO:	SEAL 8	FLODIDA DEDADTMEN		SHEET TITLE:	DRAWING NO.
DATE BY DESC	PTION DATE BY 90R	DESCRIPTION DRAWN BY CHECKED BY	M:I. 3/87 M:P. 3/87	STRUCTURES DESIGN OFFICE		TEORIDA DEPARTMEN	DESIGN OFFICE	CASE III (5.0 KIPS/SQ FT MAX BEARING PRESSURE) 6 FT.TO 30 FT.HEIGHT	1 of 1
		DESIGNED BY CHECKED BY APPROVED BY	A.G.M.	605 Suwannee Street, MS 33 Tallahassee, Florida 32399-0450		ROAD NO. COUNTY	PROJECT NO.	PROJECT NAME:	INDEX NO. 816

ED. ROAD DIV. NO.	STATE	PROJECT NO.	FISCA YEAR	_ SHEET NO.
3	FLA.		•	

						RETAINING WALL	DATA							
WALL DIMENSIONS						REIN	FORCING STEEL SC	HEDULE						
H B D T	BARS A	BARS D*	BARS F	BARS G	BARS H	BARS J		BARS K		BARS L			BARS M	П
	SIZE NO. LENGTH S	SIZE NO. LENGTH S	IZE NO. LENGTH	SIZE NO. LENGTH SIZE NO.	SPACING LENGTI	H SIZE NO. SPACING a	b LENGTH	SIZE NO. SPACING a b	LENGTH SI	ZE NO. SPACING a	b LENGTH SIZ	ZE NO.	С	LENGTH
6 8" 11" 2"-10"		6 4 1'-6"	4 17 4' - 7	" 4 14 24 ' - 6 " 4 18	1'-5" 2'-4"	4 25 1 ' - 0" 5 ' - 5"	- 6 - 6				4	17	1'-8"3	3'-10" 6
7 9" //" 3 ' - 5"		6 5 1'-6"	4 17 5' - 7	" 4 16 24 ' - 6 " 4 18	1'-5" 2'-11"	4 25 1 ' - 0" 6 ' - 5"	- 2" 7 - 7"				4	17	2'-2"4	1'-4"7
8 11" 11" 3 -11"		6 5 1'-6"	4 17 6' - 7	" 4 16 24 ' - 6" 4 18	1'-5" 3'-5"	4 25 1 ' - 0" 7 ' - 5"	- 4" 8 - 9"				4	/ 7	2'-6" 4	1'-8"8
9 ' - 2" ' - 4"		6 6 1'-6"	4 17 7' - 7	" 4 20 24' - 6" 4 18	1'-5" 3'-10"	4 28 11" 8' - 5" 1	' - 8'' / 0 ' - / ''				4	17	2'-8"4	1'-/0" 9
10 1 ' - 2" 1 1 4 - 10"		6 7 1'-6"	4 17 8' - 7	" 4 22 24' - 6" 4 28		4 30 10" 9' - 5" 1	' - 8'' / / ' - / ''				4	17	3'-2"5	5'-4"10
		6 7 1'-6"	4 17 9' - 7	" 4 22 24' - 6" 4 38	8" 4'-10"	5 25 / ' - 0" / 0 ' - 5"	' - / / '' / 2 ' - 4 ''				4	/7	3'-6"5	5'-8"//
12 1' - 6" 1' - 0" 5' - 9"		6 8 1'-6"	4 17 10' - 6	" 4 26 24' - 6" 4 34	9" 5'- 3"	5 34 9" / / ' - 5" 2	'- /"/3'- 6"				4	17	3'-9"5	5'-//'/2
13 1 ' - 7" 1 ' - 0" 6 ' - 3"		6 9 1'-6"	4 17 11' - 6	" 4 28 24' - 6" 4 43	7" 5'- 9"	5 34 9" /2' - 5" 2	'- 4" 4" - 9"				4	17	4'-2"6	3'-4"/3
14 1'- 8" 1'- 0" 6'- 9"		6 9 1'-6"	4 17 12'-6	" 4 28 24' - 6" 4 60	5" 6' - 3"	5 43 7" / 3' - 5" 2	'- 6" /5 '-//"				4	17	4'-7"6	3'-9"14
15 1'-10" 1'- 0" 7'- 2"		6 10 1'-6"	4 17 13' - 6	" 4 32 24' - 6" 5 43	7" 6'-8"	5 25 1'- 0" 14'- 5" 2	'-8"/7'-/"	5 24 1'- 0" 5'- 9"2'- 8" 8	7 - 5"		4	17	4'-10"7	7 - 0" / 5
16 ' - ' ' - 0" 7 ' - 7"	5 20 14' - 6"	6 // / - 6"	4 17 14' - 6	" 4 34 24' - 6" 5 60	5" 7'-1"	5 20 1'- 3" 2'-10" 2	' - 9" 5	5 19 1' - 3" 4' - 9" 2' - 9" 7	- 6"	5 19 1 ' - 3" 10 ' - 9" 2	2'-9"/3'-6" 4	17	5'-2"7	7 - 4" /6
17 2'- 2" '- 2" 8'- 2"	6 17 15' - 4"	6	4 17 15' - 4	" 4 34 24' - 6" 5 50	6" 7'-8"	6 17 1' - 6" 3' - 5" 3	' - I'' 6 ' - 6''	6 16 1' - 6" 5' - 4" 3' - 1" 8	8 - 5"	6 16 1' - 6" 8' - 4" 3	'- " - 5" 4	17	5'-6"7	7 - 8 / 7
18 2' - 2" ' - 2" 8' - 9"	6 20 16' - 4''	6 12 1'-6"	4 17 16 ' - 4	" 4 38 24' - 6" 6 50	6" 8' - 3"	6 20 1'- 3" 3'- 5" 3	'- 1" 6 '- 6"	6 19 1 ' - 3" 5 ' - 4" 3 ' - 1" 8	7 - 5"	6	'- " '- 5" 4	17	6'-1"8	3'- 3"/8
19 2'- 5" '- 8" 9'- 0"	6 17 16 ' - 10 ''	6 12 1'-6"	4 17 16 ' - 10	" 4 38 24' - 6" 5 43	7" 8'-6"	7 17 1' - 6" 4' - 10" 3	' - 5" 8	7 16 1' - 6" 6' - 5" 3' - 5" 9	7 - 10"	7 16 1' - 6" 10' - 5" 3	1'-5"/3'-/0" 4	17	6'-1"8	3'-3"/9
20 2'- 9" '- 8" 9'- 6"	6	6 13 1' - 6"	4 17 17 ' - 10	" 4 40 24' - 6" 5 50	6" 9'- 0"	7 19 1 ' - 4" 4 ' - 10" 3	' - 9" 8	7 18 1 ' - 4" 7 ' - 5" 3 ' - 9"	/ ' - 2" 7	7 18 1 ' - 4" 1 ' - 5" 3	1'-9"15'-2" 4	17	6'-3"8	3'- 5"20
21 3'- 0" '- 8" 9'- "	6 17 18'-10"	6 14 1 ' - 6 "	4 17 18'-10	" 4 42 24' - 6" 5 60	5" 9'- 5"	8 17 1' - 6" 5' - 11" 4	'-0"9"-11"	8 16 1' - 6" 9' - 1" 4' - 0" 1.	3'-/" 8	3 16 1' - 6" 3' - 1" 4	1 - 0" 17 ' - 1" 4	17	6'-5"8	3'-7"21
22 3' - 4" ' - 8" 0' - 7"	6	6 14 1'-6"	4 17 19'-10	" 4 44 24' - 6" 6 43	7" /0'- /'	' 8 19 1 ' - 4" 6 ' - 1" 4	'-5"/0'-6"	8 18 1' - 4" 9' - 1" 4' - 5" 1.	3'-6" 8	3 18 1' - 4" 4' - 1" 4	'-5" 8'-6" 4	17	6'-9"8	3'-11"22
23 3'- 8"2'- 2" '- 3"	6 20 20 ' - 4 ''	6 15 1'-6"	4 17 20 ' - 4	" 4 46 24' - 6" 5 50	6" 10'- 9'	' 8 20 1' - 3" 6' - 7" 4	'-9"//-4"	8 19 1 ' - 3" 9 ' - 7" 4 ' - 9" 1	4'-4'' 8	3 19 1 ' - 3" 4 ' - 7" 4	1 - 9" /9 ' - 4" 4	17	7'- 1'' 9)'- 3"23
24 4'- 0"2'- 2" '- "	6 19 21' - 4"	6 15 1'-6"	4 17 21 ' - 4	" 4 48 24' - 6" 5 60	5" //' - 5'	' 9 /9 / ' - 4" 7 ' - 8" 5	'- <i>1" 12 '</i> - 9"	9 18 1 ' - 4" 1 - 3" 5 ' - 1"	6'-4"	9 18 1 ' - 4" 16 ' - 3" 5	1'-2"21'-5" 4	17	7'-5"9	<i>)</i> ' - 7'' 24
25 4'- 4" 2'- 2" /2'- 7"	6 20 22' - 4"	6 16 1'-6"	4 17 22' - 4	" 4 50 24' - 6" 6 43	7" /2'- /'	' 9 20 1'- 3" 7'- 8" 5	'-6"/3'-2"	9 19 1' - 3" 11' - 3" 5' - 6"	6'-9"	9 19 1' - 3" 17' - 3" 5	1'-6"22'-9" 4	17	7'-9"9	<i>)'-11"2</i> 5
26 4'-7"2'-2"/3'-5"	7 20 23' - 4"	6 17 1 ' - 6 ''	4 17 23' - 4	" 4 54 24' - 6" 6 50	6" /2'-//	' 9 20 1'- 3" 8'- 2" 5	'-9"/3"-//"	9 19 1' - 3" 2' - 3" 5' - 9"	8'-0"	9 19 1 ' - 3" 18 ' - 3" 5	1 - 9"24' - 0" 4	17	8'-4"/(0'-6"26
27 5'- 0" 2'- 8" 14'- 2"	7 20 23'-10"	6 17 1 ' - 6 ''	4 17 23 ' - 10	" 4 54 24' - 6" 6 38	8" 3' - 8'	' 9 20 1'- 3" 8'- 8" 6	- 3" 4 ' - "	9 19 1'- 3" 12'- 9" 6'- 3" 1	9'-0"	9 19 1 ' - 3" 18 ' - 9" 6	1 - 3" 25 ' - 0" 4	17	8'-8"/(0'-10"27
28 5'- 4" 2'- 8" 14'-10"	8 19 24'-10"	6 18 1'-6"	4 17 24 ' - 10	" 4 58 24' - 6" 6 43	7" 4'- 4'	' 10 19 1'- 4" 9'- 2" 6	' - 7" <i> </i> - 9"	10 18 1' - 4" 3' - 9" 6' - 7" 2	0'-4" /() 18 1' - 4" 19' - 9" 6	· - 7 · 26 · - 4 · · · 4	17	9'-0"/.	1'-2"28
29 5'- 8" 2'- 8" 15'- 8"	8 20 25 ' - 10"			" 4 58 24' - 6" 6 50	6" 15' - 2'	' 10 20 1'- 3" 9'- 8" 6	'-//''/6'-7''	10 19 1' - 3" 14' - 9" 6' - 11" 2	1'-8"	0 19 1 ' - 3" 20 ' - 9" 6	1-11"27'-8" 4	17	9'-6"1.	1'-8"29
30 6'- 1" 3'- 2" 16'- 5"				" 4 62 24' - 6" 6 50	6" /5'-//		'- 5" /7 '- 7"		2'-8"	1 16 1' - 6" 21' - 3" 7	'-5"28'-8" 4	/7	9'-/0"/2	
					I		l	0.10	1. C°11		ı		I	

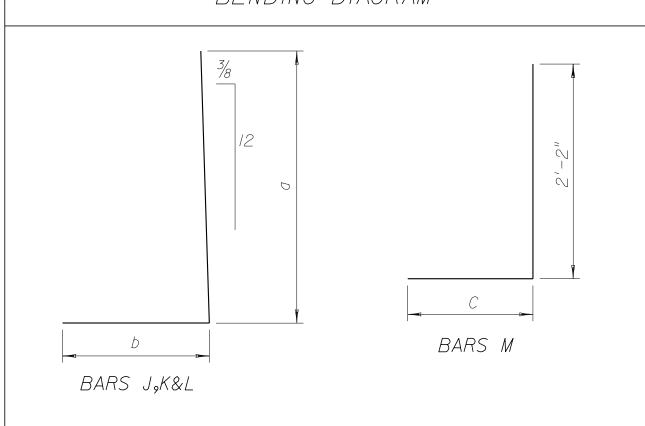
		QUANTI	TIES	
1.1	CONCRETE / 25' UNIT	STEEL / 25' UNIT	CONCRETE PER LIN.FT.	STEEL PER LIN.FT.
Н	C.Y.	LBS.	C.Y.	LBS.
6	6.31	470	0.25	18
7	7.66	547	0.3/	21
8	8.97	588	0.36	23
9	10.24	7 / 6	0.41	28
10	11.60	837	0.46	33
/ /	13.00	993	0.52	39
12	14.71	1227	0.59	49
13	18.06	1369	0.72	54
14	19.73	1661	0.79	66
15	21.35	1734	0.85	69
16	23.01	2107	0.92	84
17	25 .89	2276	1.04	9 /
18	27 .84	2799	/ 。/ /	/ / /
19	32.95	2805	1.32	112
20	35.08	3262	1.40	130
21	37 .12	3839	1.48	153
22	39.57	4365	1.58	174
23	46 .53	4607	1.86	184
24	49.33	5632	1.97	225
25	52.17	6//8	2.09	244
26	55.36	6889	2.21	275
27	64.20	6926	2.57	277
28	67 .41	8486	2.70	339
29	71.07	9394	2.84	375
30	81.33	9835	3.25	393





To accommodate the Variable Height of a wall Unit, vertical Bars may be field cut to fit and the number of horizontal Bars G required by the highest wall dimension within a 25' Unit shall be equally spaced at each end of the Unit.

BENDING DIAGRAM



NOTE: All bar dimensions are out to out.

NOTE: Bars M are paired with Bars F and Bars A are paired with Bars J. Bars F and M are No.4 Bars. Bars J are as shown.

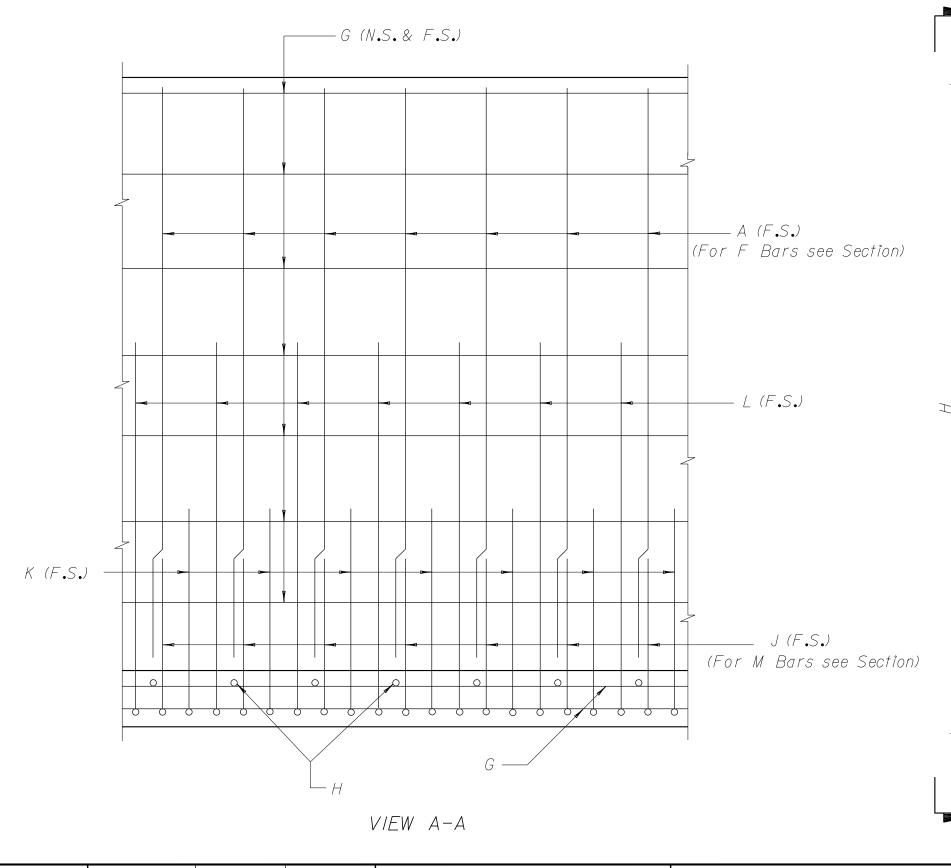
* NOTE•For placement details for Bars D see Standard Index No.800.

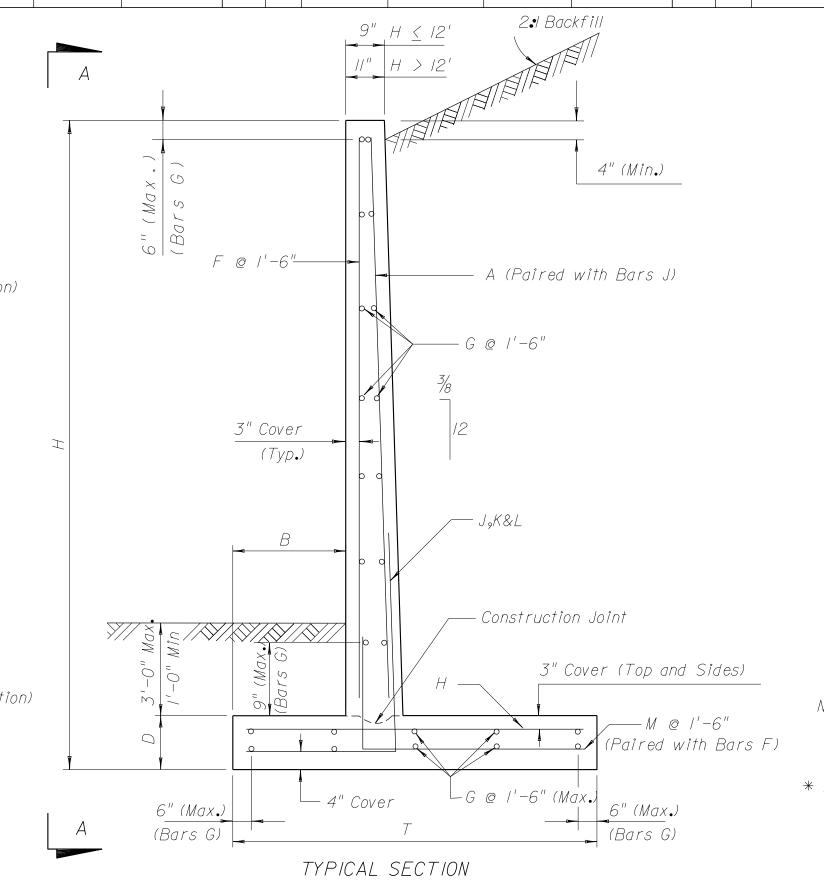
	REVISIONS		NAMES	DATES	ENGINEER OF RECORD:	LOGO:	SEAL 8	FLORIDA DEPARTMENT OF TRANSPORTATION	SHEET TITLE:	DRAWING NO.
DATE BY	DESCRIPTION DATE BY 90R	DESCRIPTION	DRAWN BY M:/. CHECKED BY M.P.	3/87 3/87	STRUCTURES DESIGN OFFICE			FLORIDA DEPARTMENT OF TRANSPORTATION STRUCTURES DESIGN OFFICE	CASE III (5.5 KIPS/SQ.FT.MAX.BEARING PRESSURE) 6 FT.TO 30 FT.HEIGHT	10f /
			DESIGNED BY		605 Suwannee Street, MS 33 Tallahassee, Florida 32399-0450	·		ROAD NO. COUNTY PROJECT NO.	PROJECT NAME:	INDEX NO.
				G.M.						017

ED. ROAD DIV. NO.	STATE	PROJECT NO.	FISCA YEAR	_ SHEET NO∙
3	FLA.			

						RETAINING WALL DATA				
WALL DIMENSIONS						REINFORCING STEEL :	SCHEDULE			
H B D T	BARS A	BARS D*	BARS F	BARS G	BARS H	BARS J	BARS K	BARS L		BARS M
	SIZE NO. LENGTH	SIZE NO. LENGTI	H SIZE NO. LENGTH	SIZE NO. LENGTH SIZE NO.	SPACING LENGTH	H SIZE NO. SPACING a b LENGTI	H SIZE NO. SPACING a b	LENGTH SIZE NO. SPACING a b	LENGTH SIZE NO.	C LENGTH
6 8" 11" 2'-10"		6 4 1'-6	6" 4 17 4' - 7	" 4 14 24 ' - 6 " 4 18	1'-5" 2'-4"	4 26 1'- 0" 5'- 5" 1'- 1" 6'- 6"			4 17	1'-8"3'-10"6
7 9" //" 3 ' - 5"		6 4 1'- 6	6" 4 17 5' - 7'	" 4 16 24 ' - 6" 4 18	1'-5" 2'-11"	4 26 1'- 0" 6'- 5" 1'- 3" 7'- 8"			4 17	2'-2" 4'-4" 7
8 //" //" 3 '-/0"		6 5 1'- 6	6" 4 17 6' - 7'	" 4 18 24 ' - 6" 4 18	1'-5" 3'-4"	4 26 1 ' - 0" 7 ' - 5" ' - 5" 8 ' - 10"			4 17	2'-5" 4'-7" 8
9 1 ' - 2" 11" 4 ' - 4"		6 6 1'- 6	6" 4 17 7' - 7'	" 4 20 24' - 6" 4 18	1'-5" 3'-10"	4 28 11" 8' - 5" 1 ' - 8" 10 ' - 1"			4 17	2'-8" 4'-10" 9
10 1'-2" 11" 4'-10"		6 6 1'-6	6" 4 17 8' - 7	" 4 22 24' - 6" 4 28		4 31 10" 9' - 5" 1 ' - 9" 11 ' - 2"			4 17	3'-2"5'-4"10
		6 7 1'- 6	6" 4 17 9' - 7'	" 4 22 24' - 6" 4 34	9" 4'-10"	5 26 1' - 0" 0' - 5" ' - 1 " 2' - 4"			4 /7	3'-6" 5'-8"1
12 1' - 6" 1' - 0" 5' - 9"		6 8 1'-6	6" 4 17 10' - 6	" 4 26 24' - 6" 4 34	9" 5'- 3"	5 34 9" - 5" 2' - " 3' - 6"			4 17	3'-9"5'-11"12
13 1 ' - 7 '' 1 ' - 0 '' 6 ' - 3 ''		6 8 1'-6	6" 4 17 11' - 6	" 4 28 24' - 6" 4 43	7" 5'- 9"	5 34 9" 2' - 5" 2' - 5" 4' - 10"			4 17	4'-2"6'-4"/3
		6 9 1'-6	6" 4 17 12' - 6	" 4 28 24' - 6" 4 61	5" 6'- 3"	5 43 7" 3' - 5" 2' - 6" 5' - 1"			4 17	4'-7"6'-9"/4
15 1'-10" 1'- 0" 7'- 2"		6 10 1'- 6	6" 4 17 13' - 6	" 4 32 24' - 6" 5 43	7'' 6' - 8''	5 26 1'- 0" 14'- 5" 2'- 9" 17'- 2"	5 25 1'- 0" 5'- 9"2'- 9" 8	8 ' - 6 ''	4 17	4'-10" 7'- 0" 15
16 ' - ' ' - 0" 7 ' - 8"	5 21 14' - 6	" 6 /0 / - 6	6" 4 17 14' - 6	" 4 34 24' - 6" 5 61	5" 7'-2"	5 21 1'- 3" 2'-10" 2'-10" 5'- 8"	5 20 1'- 3" 4'- 9"2'-10" 7	7 - 7 5 20 1 - 3 10 - 9 2 - 10	13'-7" 4 17	5'-3"7'-5"/6
17 2'- 2" '- 2" 8'- 2"	6 17 15'- 4	" 6 // / - 6	6" 4 17 15' - 4	" 4 36 24' - 6" 5 51	6" 7'-8"	6 17 1 ' - 6" 3 ' - 5" 3 ' - 1" 6 ' - 6"	6	8'-5" 6 16 1'-6" 8'-4"3'-1"	11'-5" 4 17	5'-6"7'-8"/7
18 2' - 2" ' - 2" 8' - 9"	6 21 16' - 4	" 6	6" 4 17 16' - 4'	" 4 38 24' - 6" 6 51	6" 8'- 3"	6 21 1'- 3" 3'- 5" 3'- 2" 6'- 7"	6 20 1'- 3" 5'- 4" 3'- 2" 8	8 ' - 6" 6 20 1 ' - 3" 8 ' - 4" 3 ' - 2"	11'-6" 4 17	6'- '' 8'- 3" 8
19 2'- 5" '- 8" 9'- 0"	6 17 16 ' - 10	" 6 /2 / - 6	6" 4 17 16 ' - 10 '	" 4 40 24' - 6" 5 43	7" 8'-6"	7 17 1' - 6" 4' - 10" 3' - 5" 8' - 3"	7 16 1 ' - 6" 6 ' - 5" 3 ' - 5" 9	9'-10" 7 16 1'-6" 10'-5"3'-5"	13'-10" 4 17	6'- 8'- 3" 9
20 2'- 9" '- 8" 9'- 6"	6 19 17'-10	" 6 /3 / - 6	6" 4 17 17 ' - 10°	" 4 44 24' - 6" 6 34	9" 9'- 0"	7 19 1 ' - 4" 4 ' - 10" 3 ' - 9" 8 - 7"	7 18 1 ' - 4" 7 ' - 5" 3 ' - 9"	1'-2" 7 18 1'-4" 11'-5"3'-9"	15'-2" 4 17	6'-3"8'-5"20
21 3'- 0" 1'- 8" 9'-11"	6 17 18'-10	" 6 /3 / - 6	6" 4 17 18' - 10°	" 4 44 24' - 6" 6 38	8" 9' - 5"	8 17 1' - 6" 5' - 1" 4' - 1" 10' - 0"	8 16 1' - 6" 9' - 1" 4' - 1" 1.	3'-2" 8 16 1'-6" 13'-1"4'-1"	17'-2" 4 17	6'-5"8'-7"2
22 3' - 3" ' - 8" 0' - 4"	6 19 19'-10	1 6 14 1 - 6	6" 4 17 19' - 10'	" 4 46 24' - 6" 6 43	7" 9'-10"	8 19 1 ' - 4" 6 ' - 7" 4 ' - 4" 10 ' - 11"	8 18 1' - 4" 9' - 1" 4' - 4" 1.	3'-5" 8 18 1'-4" 4'- "4'-4"	18'-5" 4 17	6'-7"8'-9"22
23 3' - 6" 2' - 2" 10' -10"	6 21 20' - 4	" 6 /5 / ' - 6	6" 4 17 20 ' - 4	" 4 48 24' - 6" 6 34	9" 10' - 4"	8 21 1'- 3" 6'- 7" 4'- 8" 11'- 3"	8 20 1'- 3" 9'- 7" 4'- 8" 1.	4'-3" 8 20 1'-3" 4'-7" 4'-8"	19'-3" 4 17	6'-10" 9'- 0" 23
24 3'- 9" 2'- 2" //'- 5"	6 19 21' - 4	" 6 /5 / ' - 6	6" 4 17 21 ' - 4	" 4 50 24' - 6" 5 61	5" 10'-11"	9 19 1' - 4" 7' - 8" 4' - 11" 12' - 7"	9 18 1' - 4" 10' - 3" 4' - 11"	5'-2" 9 18 1'-4" 16'-3" 4'-11"	21'-2" 4 17	7'-2"9'-4"24
25 4'- 1"2'- 2" 12'- 0"	6 21 22' - 4	" 6	6" 4 17 22 ' - 4	" 4 50 24' - 6" 5 61	5" //' - 6"	9 21 1'- 3" 7'- 8" 5 '- 3" 12 '-11"	9 20 1'- 3" 11'- 3" 5'- 3" 1	6'-6" 9 20 1'-3" 17'-3" 5'-3"	22'-6" 4 17	7'-5"9'-7"25
26 4'- 4"2'- 2" 12'- 9"	7 21 23' - 4	(1) 6 17 1 ' - 6	6" 4 17 23 ' - 4	" 4 54 24' - 6" 7 34	9" /2' - 3"	9 21 1'- 3" 8'- 2" 5 '- 7" 13'- 9"	9 20 1'- 3" 12'- 3" 5'- 7" 1	7'-10" 9 20 1'- 3" 18'- 3" 5'- 7"	23'-10" 4 17	7'-//"/0'- /"26
27 4'- 9"2'- 8" /3'- 6"	7 21 23'-10	" 6	6" 4 17 23 ' - 10	" 4 56 24' - 6" 6 38			9 20 1'- 3" 12'- 9" 6'- 0" 1	8'-9" 9 20 1'-3" 18'-9"6'-0"	24'-9" 4 17	8'-3" 10'-5"27
28 5'- 1"2'- 8" 14'- 3"	8 19 24'-10	" 6 /8 / ' - 6	6" 4 17 24 ' - 10	" 4 58 24' - 6" 7 31	10" 13' - 9"	'	10 18 1' - 4" 13' - 9" 6' - 4" 2	20'- " 0 8 - 4" 9'- 9" 6'- 4"	26'-1" 4 17	8'-8" 10'-10"28
29 5'- 5" 2'- 8" /4'-//"						'	10 20 1'- 3" 14'- 9" 6'- 9" 2			9'-0" 1'-2"29
30 5'- 9" 3'- 2" 15'- 9"						'				9'-6" -8"30
							2 • I Ra			

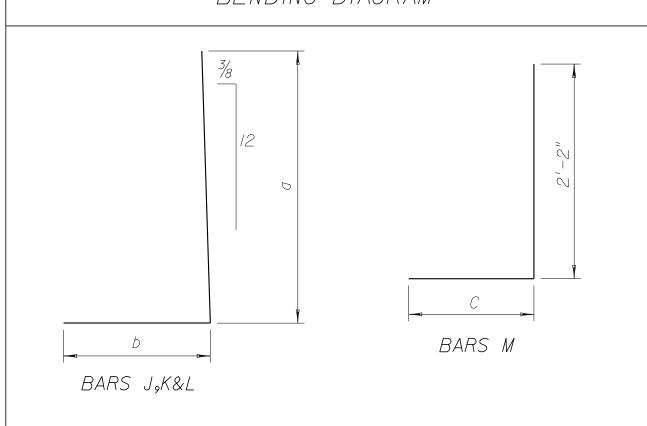
	QUANTITIES											
	CONCRETE / 25' UNIT	STEEL / 25' UNIT	CONCRETE PER LIN.FT.	STEEL PER LIN,FT.								
H	C.Y.	LBS.	C.Y.	LBS.								
6	6.31	477	0.25	19								
7	7.66	554	0.3/	22								
8	8.90	629	0.36	25								
9	10.24	7 / 9	0.41	28								
10	11.60	847	0.46	33								
/ /	13.00	997	0.52	39								
12	14.71	1233	0.59	49								
13	18.06	1375	0.72	55								
14	19.73	1673	0.79	66								
15	21.35	1769	0.85	70								
16	23.09	2167	0.92	86								
17	25 .89	2317	1.04	92								
18	27 .84	2883	/ . / /	115								
19	32.95	2838	1.32	113								
20	35.08	3318	1.40	132								
21	37 .12	3828	1.48	153								
22	39.19	4393	1.57	175								
23	45.70	4741	1.83	189								
24	48.33	5540	1.93	221								
25	5/.00	6227	2.04	249								
26	54.03	6969	2.16	278								
27	62.55	7 / / 3	2.50	284								
28	65.97	8368	2.64	334								
29	69.21	9730	2.77	389								
30	79.37	97 17	3.17	388								





To accommodate the Variable Height of a wall Unit, vertical Bars may be field cut to fit and the number of horizontal Bars G required by the highest wall dimension within a 25' Unit shall be equally spaced at each end of the Unit.

BENDING DIAGRAM



NOTE: All bar dimensions are out to out.

NOTE• Bars M are paired with Bars F and Bars A are paired with Bars J. Bars F and M are No.4 Bars. Bars J are as shown.

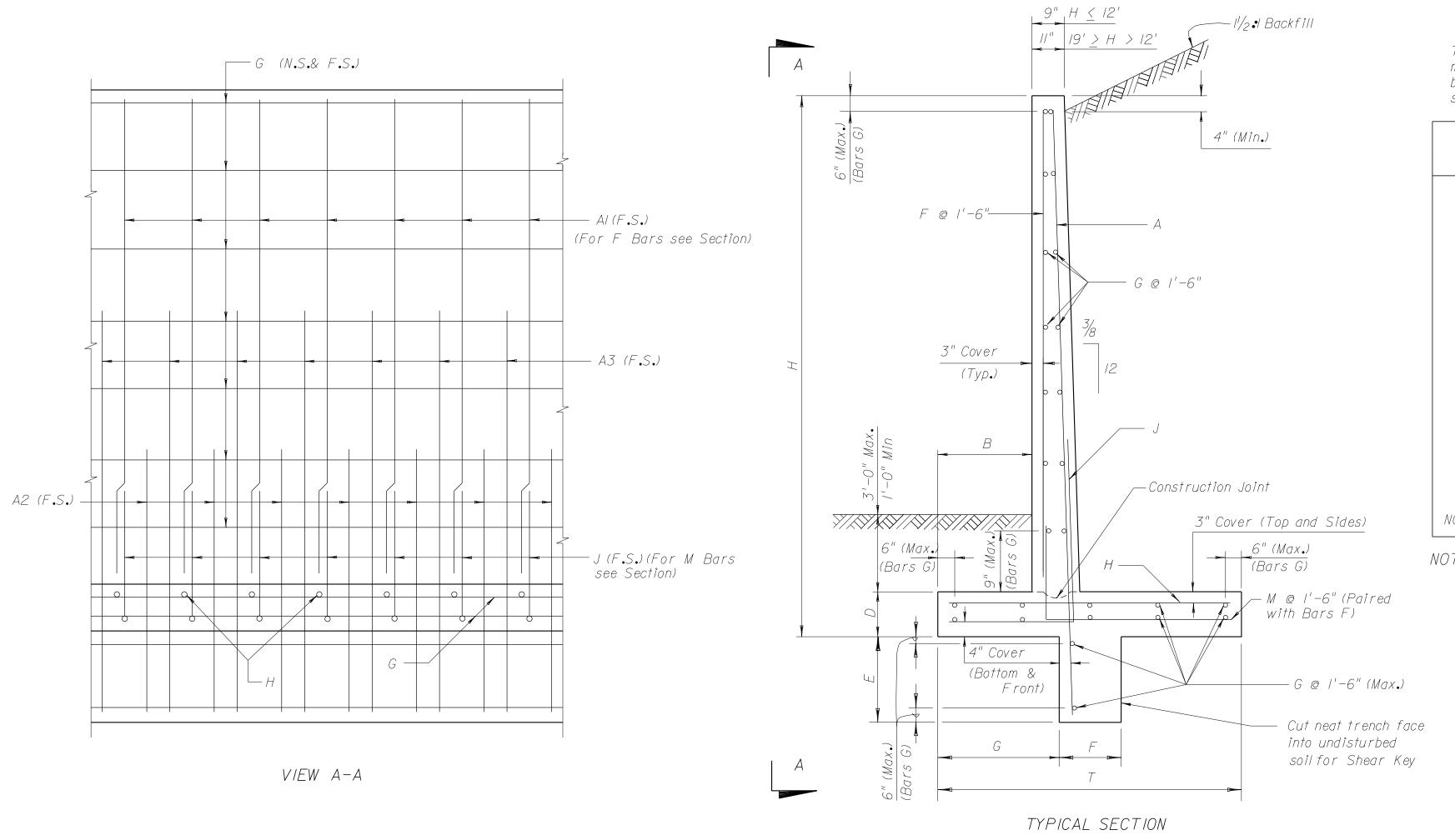
* NOTE•For placement details for Bars D see Standard Index No.800.

DATE BY DESCRIPTION DATE BY DESCRIPTION DRAWN BY CHECKED BY	NAMES DATES M.I. 3/87 M.P. 3/87 STRUCTURES DESIGN OFFICE	FLORIDA DEPARTMENT OF TRANSPORTATION STRUCTURES DESIGN OFFICE	CASE III (6.0 KIPS/SQ.FT.MAX.BEARING PRESSURE) 6 FT.TO 30 FT.HEIGHT	DRAWING NO.
DESIGNED BY CHECKED BY APPROVED BY	605 Suwannee Street, MS 33 Tallahassee, Florida 32399-0450	ROAD NO. COUNTY PROJECT NO.	PROJECT NAME:	INDEX NO. 8/8

ED. ROAD DIV. NO.	STATE	PROJECT NO.	FISCA YEAR	_ SHEET NO.
3	FLA.	·	٠	

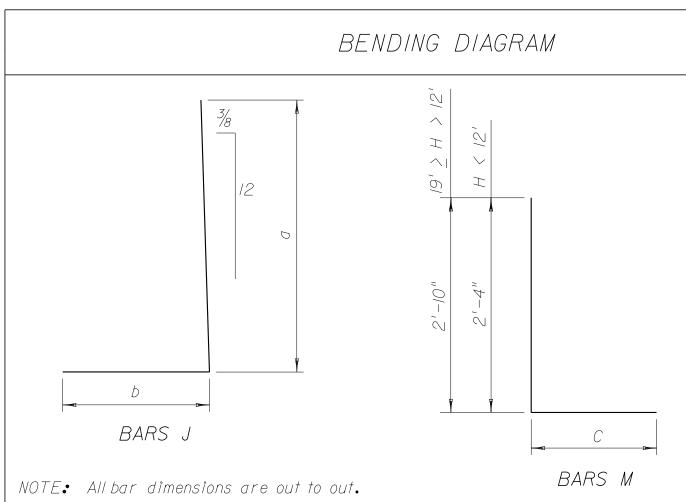
	RETAINING WALL DATA																	
WALL	DIMENSIONS	SHEAF	R KEY DIM	ENSIONS						REINFOR	RCING STEEL SCH	HEDUL	E					
H B D T		F	F	G	BAR	RS AI BARS A2	BARS A3	BA	ARS D B.	ARS F	BARS G		BARS H		BARS J		BARS M	
			/		ZE NO.	LENGTH SIZE NO. SPACING LENGTH SIZE NO.	SPACING LENGTH SIZ	ENO	. LENGTH SIZE NO	• LENGTH	SIZE NO. LENGTH	SIZE	NO. SPACING	LENGTH	SIZE NO. SPACING a b LENGTH	SIZE NO.	С	LENGTH
· 6 /0"	11" 3'-11"						6	4	!	4'-7'	' 4 14 24 ' - 6	" 4	18 1'-5"	3'-5"	4 25 1'- 0" 5'- 5" 1'- 3" 6'- 8"	4 17	2'-7"	4'-//'' 6
7 / ' - 3''	11" 4'-8"						6	5	5 / ' - 6" 4 / 7	5'-7'	' 4 18 24 ' - 6	" 4	18 1'-5"	4'-2"	4 25 1'- 0" 6'- 5" 1'- 8" 8'- 1"	4 17	2'-//"	5'-3"7
8 / ' - 3''	1'-0"5'-4"						6	5	5 1'-6" 4 17	6'-6'	' 4 18 24 ' - 6	" 4	23 1 ' - 1 "	4'-10"	4 28	4 17	3'-7"	5'-//"8
9 / ' - 8''	1'-0"6'-3"	/ ' - 0''	1'-0"2	- / "		4 19 1 ' - 3" 5 ' - 8"	6	6	6 1 - 6 - 4 17	7'-6"	' 4 24 24' - 6	" 4	23 ' - ''	5'-9"	4 20 1'- 3" 8'- 5" 2'- 2" 10'- 7"	4 17	4'- /"	6'-5"9
10 2' - 3"	1'-2"8'-3"	/ ' - 0''	1'-0"2	' - 8''		4 27 11" 4'-11"	6	7	1'-6"4 17	8'-4"	' 4 28 24' - 6	" 4	30 /0"	7'-9"	4 28 11" 9' - 5" 2' - 9" 12' - 2"	4 17	5'-6"	7'-10"10
11 3'-0"	1'-2"10'-6"	/ ' - 0''	/ ' - 0" 3	' - 6''		5 22 1'-1" 5'-11"	6	7	1'-6"4 17	9'-4"	' 4 32 24' - 6	" 4	30 /0"	10'-0"	5 23 ' - '' 0 ' - 5 '' 3 ' - 7 '' 4 ' - 0 ''	4 17	7'-0"	9'-4"//
12 3' - 6"	/ ' - 5" / / ' - 6"	/ ' - 0''	/ ' - 0'' 4	1 ' - 0''		5 27 //" 6'-9"	6	8	3 1'-6" 4 17	10'- 1"	' 4 34 24' - 6	" 5	25 1'-0"	/ / ' - 0''	5 28	4 17	7'-6"	101-4112
13 4'- 0"	1'-5"/3'-3"	/ ' - 0''	1 ' - 0" 4	' - 8''		5 27 11" 7'-1"	6	8	3 / ' - 6" 4 / 7	/ / ' - / '	' 4 38 24' - 6	" 5	25 1'-0"	12'-9"	5 28 11" 12' - 5" 4' - 9" 17' - 2"	4 17	8'-9"	' - 7 '' 3
14 5'- 0"	1'-8"16'-3"	/ ' - 0''	1'-0"5	' - 9"		6 24 1'-0" 7'-6"	6	9)	/ / ' - / 0 '	' 4 44 24' - 6	" 5	30 /0"	15'-9"	6 26 1'- 0" 13'- 5" 5'-10" 19'- 3"	4 17 /	10'-9"	13'-7"14
15 7'- 0"	1'-8"22'-3"	/ ' - 0''	/ ' - 0" 7	' - 9''	5 20	12'-10" 6	1'-3" 0'-10" 6	1 C) ' - 6'' 4 17	12'-10"	' 4 54 24' - 6	" 7	34 9" .	21'-9"	6 20 1'- 3" 3'-11"7'-10"11'- 9"	4 17 1	14'-9"	'

		QUANTI	TIES	
	CONCRETE / 25' UNIT	STEEL / 25' UNIT	CONCRETE PER LIN.FT.	STEEL PER LIN.FT.
H	C.Y.	LBS.	C.Y.	LBS.
6	7.23	498	0.29	19
7	8.72	6/3	0.35	24
8	10.51	691	0.42	27
9	13.19	865	0.53	34
10	17.10	1129	0.68	45
/ /	20.50	1423	0.82	56
12	24.98	1735	1.00	69
13	30.08	1930	1.20	77
14	38.67	2543	1.55	101
15	49.15	39 / 6	1.97	156



NOTE.

To accommodate the Variable Height of a wall Unit, vertical Bars may be field cut to fit and the number of horizontal Bars G required by the highest wall dimension within a 25' Unit shall be equally spaced at each end of the Unit.



NOTE.

Bars M Paired with Bars F and Bars Al Paired with Bars J. Bars F and M are No.4 Bars.Bars J are as shown.

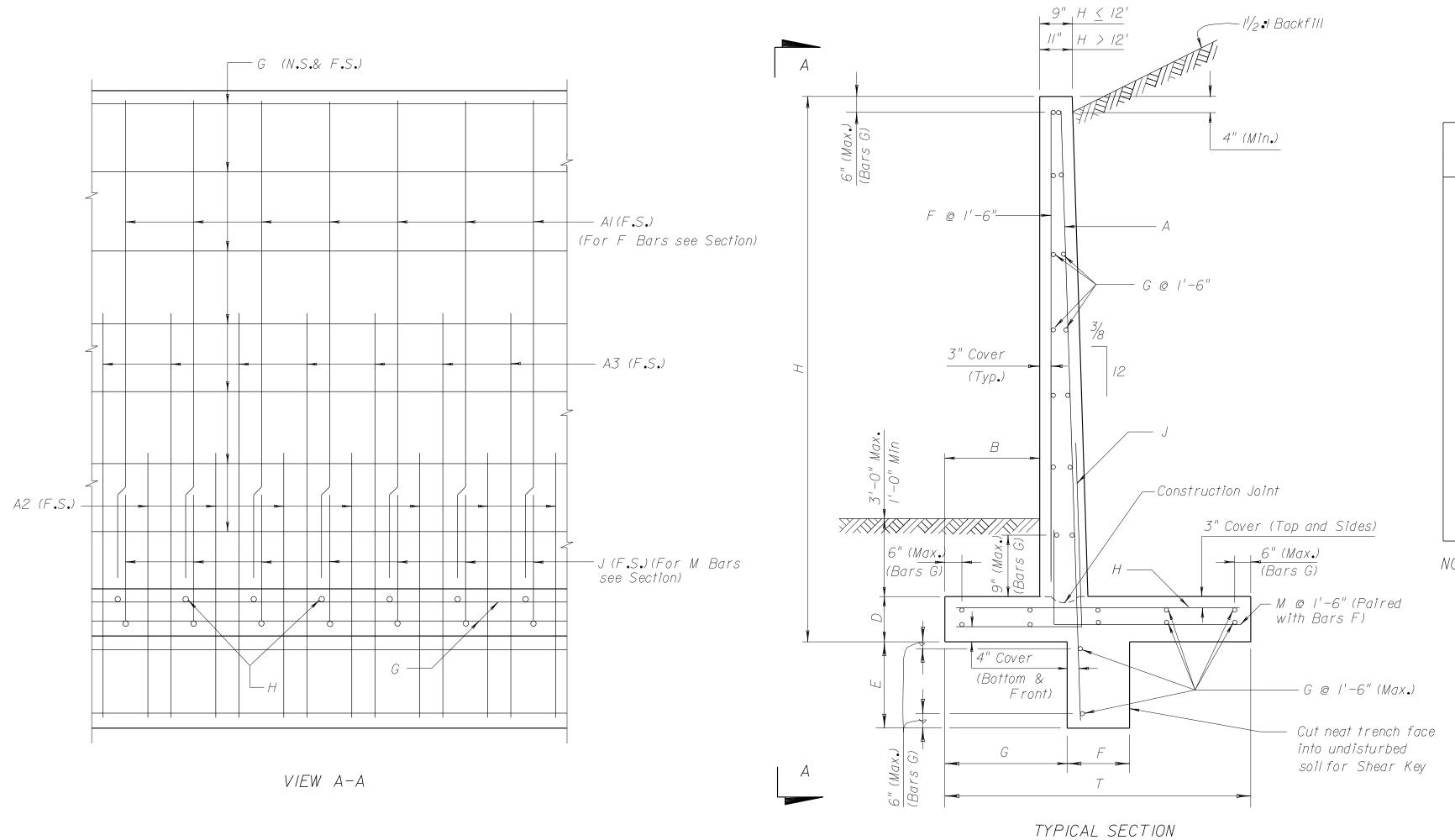
NOTE: For placement details for Bars D see Standard Index No.800.

	REV	ISIONS		NAMES DATES	ENGINEER OF RECORD: LOGO:	SEAL :	\Rightarrow	<u>=</u>		SHEET TITLE:	DRAWING NO.
DATE BY	DESCRIPTION	DATE BY	DESCRIPTION	DRAWN BY			- 1	FLORIDA DEPART	TMENT OF TRANSPORTATION	CASE IV (3.0 KIPS/SQ FT MAX BEARING	1 1
		90R		CHECKED BY M.P. 3/87	STRUCTURES DESIGN OFFICE			STRUCTUR	ES DESIGN OFFICE	PRESSURE) 6 FT. TO 15 FT. HEIGHT	/ 01 /
				DESIGNED BY .	· · · · · · · · · · · · · · · · · · ·			= V =		DDO IFCT NAME	INDEX NO
					605 Suwannee Street, MS 33		ROAD NO.	COUNTY	PROJECT NO.	PROJECT NAME:	INDEX NO.
				CHECKED BY .	Tallahassee, Florida 32399-0450						819
				APPROVED BY A.G.M.			•	•	·		

D. ROAD	STATE	PROJECT NO.	FISCA YEAR	_ SHEET NO.
3	FLA.	·	٠	•

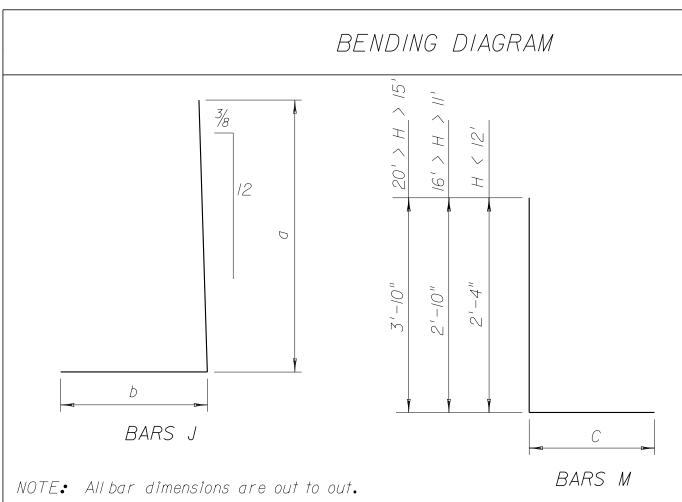
									ŀ	RET,	AINING WALL DAT	4															
WALL DIMENSION.	VS	SHEAR KEY DIN	<i>IENSIONS</i>									REINFO	PRCING S	TEEL	SCHEDUL	E											
H B D	T	E E	G		BARS AI	BARS A	12	BARS A3		BAR	RS D BA	RS F	E	BARS	G		BARS H				BAI	7 <i>S J</i>				BARS M	
	/		G	SIZE	NO. LENGTH SIZE NO	SPACING	LENGTH	SIZE NO. SPACING	LENGTH SIZE	NO.	LENGTH SIZE NO.	LENGTH	H SIZE NO	O. LE	NGTH SIZE	NO. SI	PACING	LENGTH	SIZE	NO. SPAC	CING	а	Ь	LENGTH	SIZE NO.	С	LENGTH
. 6 10" 11" 3"	' - / / ''								6	4	1'-6" 4 17	4'-7	''' 4 /	4 24	' - 6" 4	18 1	' - 5"	3'-5"	4	25 1 ' -	0" 5'-	5" / ' -	- 3" 6 '	- 8"	4 17	2'-7"	4'-//'' 6
7 1 ' - 3'' 11'' 4 '	' - 8''								6	5	1'-6"4 17	5'-7	''' 4 /.	8 24	' - 6" 4	18 1	' - 5"	4'-2"	4	25 1 ' -	0"6'-	5"/'-	- 8" 8	- / //	4 17	2'-11"	5'-3"7
8 / ' - 3" / ' - 0" 5	5'-4"								6	5	1'-6" 4 17	6'-6	5" 4 /	8 24	' - 6" 4	23 1	' - / ''	4'-10"	4	28	/ / '' 7 ' -	5"/'-	- 8" 9	- / //	4 17	3'-7"	5'-//"8
9 / ' - 6" / ' - 0" 5	5'-10"	/ ' - 0" / ' - 0"	/ ' - / / ''		4 19	/ ' - 3"	5'-8"		6	6	1'-6"4 17	7'-6	5" 4 2	4 24	' - 6" 4	23 1	' - / ''	5'-4"	4	20 1'-	3" 8'-	5"2"-	- 0"10"	- 5"	4 17	3'-10"	6'-2"9
10 1'- 8" 1'- 2" 6	6'-7"	/ ' - 0" / ' - 0" .	' - / ''		4 27	/ / "	4'-//''		6	7	1'-6"4 17	8'- 4	1" 4 2	6 24	' - 6" 4	30	10"	6'- /"	4	28	11" 9'-	5"2"-	- 2" / / /	- 7"	4 17	4'-5"	6'-9"10
11 1'-10" 1'- 2" 7	7'-5"	/ ' - 0" / ' - 0" .	2'-4"		5 22	2 / ' - / ''	5'-//"		6	7	1'-6"4 17	9'- 4	1'' 4 2	8 24	' - 6" 5	25 /	' - 0''	6 ' - / / ''	5	23 / ' -	/"/0"-	- 5"2"-	- 5" /2	' - / 0 ''	4 17	5'-/"	7'-5"//
12 2' - 3" ' - 5" 9	9'- 3"	/ ' - 0'' / ' - 0'' 2	' - 9"		5 27	/ / "	6'-9"		6	8	1'-6" 4 17	10'- /	''' 4 3.	2 24	' - 6" 5	25 /	' - 0''	8'-9"	5	28	/ / '' / / ' -	- 5"2"-	-/0"/4	' - 3''	4 17	6'-6"	9'-4"12
13 3'-0"1'-5"10	0'-9"	/ ' - 0" / ' - 0" .	3'-8"		5 27	/ / "	7'-1"		6	8	1'-6"4 17	/ / ' - /	''' 4 3	4 24	' - 6" 5	25 1	' - 0''	10'-3"	5	28	11" 12" -	- 5" 3" -	- 9" /6	' - 2"	4 17	7'- 3''	10'-1"13
14 3' - 6" ' - 8" ,	/ ' - 9"		1'- 3''		6 24	! / ' - 0''	7'-6"		6	9	1'-6"4 17	11'-10)'' 4 3.	8 24	' - 6" 5	34	9" /	' / ' - 3''	6	25 / ' -	0" /3'-	- 5"4"-	- 4" /7	' - 9''	4 17	7'-9"	10'-7"14
15 4'- 0" '- 8" 3	3'-3"	/ ' - 7" / ' - 3" -	1 - 9"	5	20 12 ' - 10 '' 6 19	/ / - 3"	7'-/0"	6 19 1'-3" 10	'-/0" 6	10	1'-6"4 17	12'-10)'' 4 4.	2 24	' - 6" 5	34	9" /	12'-9"	6	20 1'-	3" 3'-	/ / '' 4 ' -	-10"8	- 9"	4 17	8'-9"	11'-7"15
16 4'-6"2'-2"14	4'-9"	- 4" - " ;	- 4"	5	17 13' - 4" 6 16	1'-6"	8'-4"	6 16 1'-6" 12	- 4" 6	10			1'' 4 4			43	7 ''	14'-3"	7	/7 / / -	6" 5'-	4"5"-	- 4" 10 '	- 8"	4 17	9'-9"	13'-7"16
17 5'-6"2'-8"17	7'-9"	10"1-0"6	3'-4"	5	19 13' - 10'' 6 18	/ / 4"	9'-/0"	6 18 1'-4" 12	''-/0'' 6	10	1'-6" 4 17	13'-10)'' 4 4.	8 24	' - 6" 5	60	5"	77'-3"	7	19 1'-	4" 7'-	1"6"-	- 5" / 3 '	- 6"	4 17	// - 9"	15'-7"17
18 6' - 6" 2' - 8" 20	0'-10"	/ ' - 0" / ' - 0";	' - 4''	5	17 14' - 10'' 6 16	1'-6"	10'-10"	6 16 1'-6" 13	- 10" 6	/ /	1'-6" 4 17	14'-10)" 4 5	4 24	' - 6" 5	60	5"	20'- 4"	8	17 / / -	6" 8'-	9"7"-	- 5" /6 '	- 2"	4 17	13'-10"	17'-8"18
19 7'- 6" 2'- 8" 2	3'-10"	/ ' - / '' / ' - 0 '' 6	3'-5"	5	17 15 ' - 10 '' 8 16	1'-6"	12'-6"	8 16 1'-6" 19	' - 6" 6	12	1'-6" 4 17	15'-10)" 4 6	0 24	' - 6" 5	60	5"	23'- 4"	9	/7 / / -	6" 8'-	2"8"-	- 6" 16"	- 8"	4 17	15'-10''	19'-8"19

		QUANTI	TIES	
	CONCRETE/ 25' UNIT	STEEL / 25' UNIT	CONCRETE PER LIN.FT.	STEEL PER LIN.FT.
H	C.Y.	LBS.	C.Y.	LBS.
6	7.23	498	0.29	19
7	8.72	613	0.35	24
8	10.51	691	0.42	27
9	12.81	854	0.51	34
10	15.30	1039	0.61	4 /
/ /	17.17	1288	0.69	5 /
12	22.03	1596	0.88	63
13	26 .80	1761	1.07	70
14	32.06	2232	1.28	89
15	36 .17	2502	1.45	100
16	45.44	2791	1.82	/ / /
17	59.74	3632	2.39	145
18	68.78	4139	2.75	165
19	77.57	5483	3.10	219



NOTE:

To accommodate the Variable Height of a wall Unit, vertical Bars may be field cut to fit and the number of horizontal Bars G required by the highest wall dimension within a 25' Unit shall be equally spaced at each end of the Unit.



NOTE.

Bars M Paired with Bars F and Bars Al Paired with Bars J. Bars F and M are No.4 Bars. Bars J are as shown.

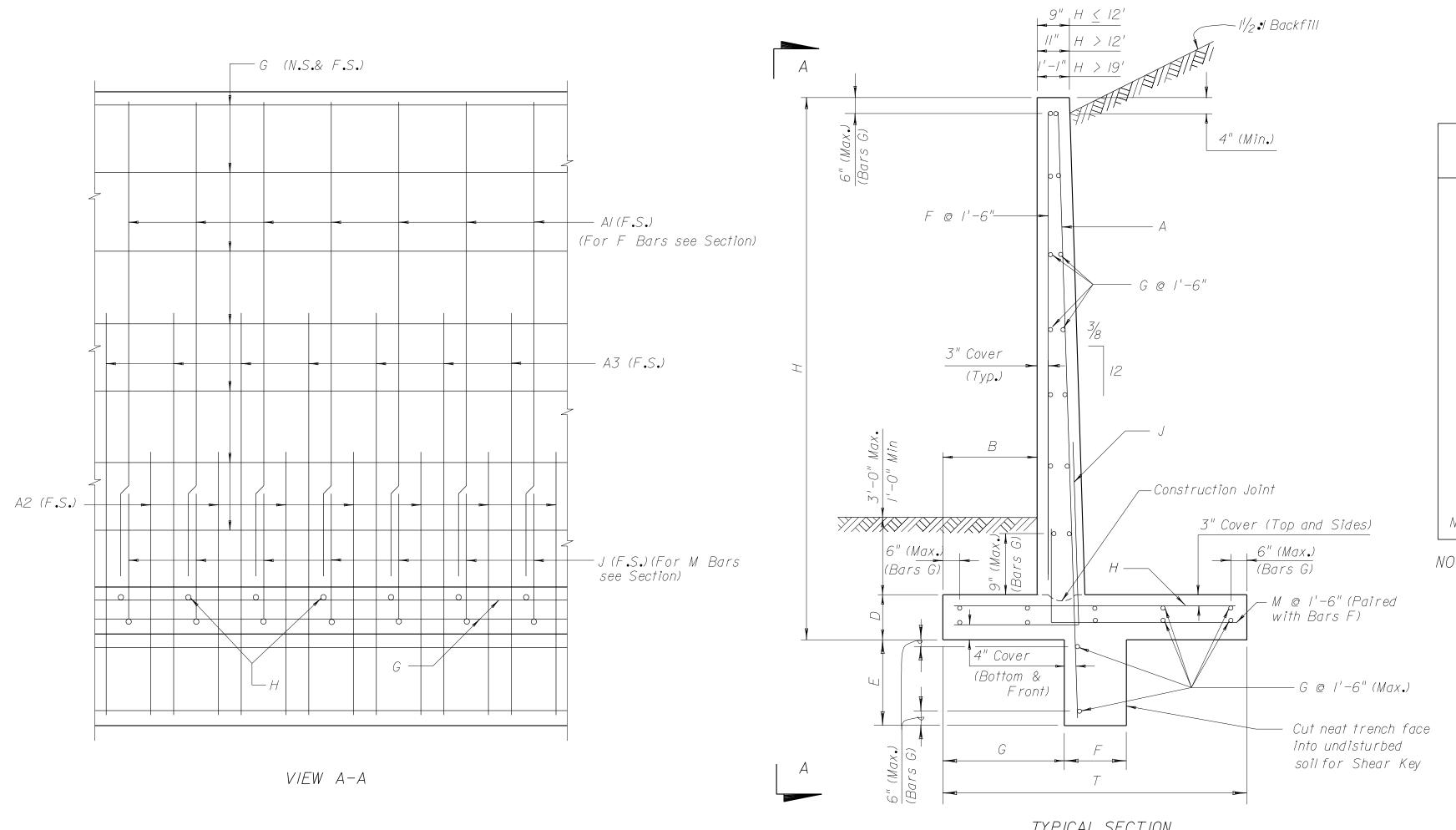
> NOTE: For placement details for Bars D see Standard Index No.800.

REVISIONS		DRAWING NO.
DATE BY DESCRIPTION DATE BY DESCRIPTION DRAWN BY	M.I. 3/87 CASE IV (4.0 KIPS/SQ FT MAX BEARING	1 o f 1
OHECKED BY	M.P. 3/87 STRUCTURES DESIGN OFFICE PRESSURE) 6 FT. TO 19 FT. HEIGHT	1011
	= 	INDEX NO
	T ROAD NO. 1 COUNTY PROJECT NO.	INDEX NO.
	Tallahassee, Florida 32399-0450	820
APPROVED BY	$A_{\bullet}G_{\bullet}M_{\bullet}$	020
	DATE BY DESCRIPTION DATE BY DESCRIPTION DRAWN BY	REVISIONS DATE BY DESCRIPTION DATE BY DESCRIPTION ORANN BY M.J. 3/87 CHECKED BY M.P. 3/87 DESIGNED BY CHECKED

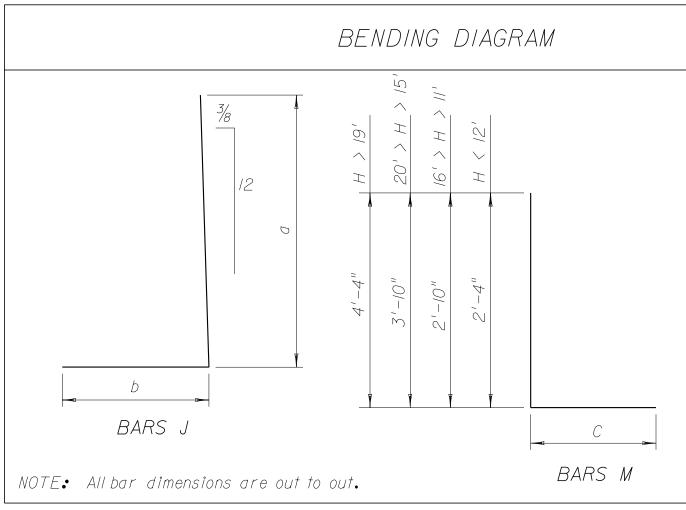
			E 1 C C 1	CHEET
D. ROAD	STATE	PROJECT NO.	FISCA YEAR	L SHEET NO∙
3	FLA.		٠	

										RETA	NINING WALL DAT	A													
WALL DIMENSIC	DNS	SHEAR KEY DIM	MENSIONS									REINF	-ORCING S	TEEL S	CHEDULE										
H B D	T	F F	G	,	BARS AI	BARS /	42	BARS /	43	BAR	S D BA	RS F	Ві	ARS G		BARS	-/			BARS J				BARS M	
	1			SIZE	NO. LENGTH SIZE	NO. SPACING	LENGTH	SIZE NO. SPACING	LENGTH SIZ	E NO.	LENGTH SIZE NO.	LENG	TH SIZE NO	LENG	TH SIZE NO.	SPACING	LENGTH	SIZE	NO. SPACING	а	b LE	NGTH SIZE	NO.	С	LENGTH
	3 ' - / / ''								6	4	1'-6" 4 17				6" 4 18		3'-5"	4	25 / ' - 0"	5'-5"/	- 3" 6 - 8	3" 4		2'-7"	
	1 - 8"								6	5	1'-6"4 17				6" 4 18		4'-2"		25 1'- 0"			·		2'-//"	
8 / ' - 3" / ' - 0"									6	5	1'-6" 4 17				6" 4 23						- 8" 9 -			3'-7"	
9 / ' - 6" / ' - 0"		/ ' - 0" / ' - 0"			4		5'-8"		6	6					6" 4 23			4						3'-/0"	
10 1'-8"1'-2"		/ ' - 0" / ' - 0"			4		4'-//''		6	7	- 6" 4 17				6" 4 30	10"		4			- 2" / / ' -				6'-9"10
		/ ' - 0" / ' - 0"			5		5'-//"		6		1'-6" 4 17		4" 4 28			/ ' - 0''		5	23 ' - ''					4'-9"	
12 2' - 0" ' - 5"					5		6'-9"		6				1" 4 3C				7'-6"	5			'-7"/4"-			5'-6"	
13 2' - 3" ' - 5"					5		7'-/"		6	8	, 0 , , ,	· ·	1" 4 30		0 0 120		8'-0"	5			'-0"/5'-			5'-9"	
14 2' - 6" ' - 8"					6		7'-6"	0 10 11 71	6	9			10" 4 34			1'-2"		6		<u> </u>	' - 4" 6 ' -	,		6'-9"	
15 3' - 0" ' - 8"					20 12 ' - 10 '' 6		7'-/0"	6 /9 / - 3"		10		12'-		3 24'-		/ ' - / ''		6		3'-//'3'				7'-3"/	
16 3' - 6" 2' - 2"		, , , , , , , , , , , , , , , , , , ,	' '		17 13' - 4" 6	, , ,	8'-4"	6 16 1'-6"	/ _ /	10			4" 4 40			10"		7	17 1'-6"			3" 4		7'-9"/	
17 4'-0"2'-8"				-	19 13' - 10'' 6			6 /8 / - 4"	2'-10" 6	10			10" 4 42			10"		/	19 1 - 4"					8'-9"/	
18 4' - 6" 2' - 8"					17 14 ' - 10 '' 6	16	/0'-/0"	6 16 1 - 6	3'-10" 6 19'-6" 6	1 / /			10" 4 44			10"		9	17 1 - 6"				.	9'-10"/	
20 5' - 6" 2' - 11"		2'-0" '-6"			17 15'-10" 8			8	16'-0"6	12			10" 4 50			/ / - 0''	5 ' - 10 '' 7 ' - 7 ''							0'-/0"/	
21 6' - 6" 2' - 11"		2'-0" '-6"			17 16 ' - 7'' 8		2' - 0'' 3' - 4''	8 /8 / - 4"		12			7" 4 52 7" 4 58			/ - 0''			17						6' - 5" 20 8' - 5" 21
22 7'-0"2'-11"					17 18' - 7" 9			9 16 1'-6"	, ,	1 7	1'-6"4 17							_	17 1' - 6"						9'-5"22
23 8' - 0" 3' - 2"		2'-6" '-8"		\vdash	19 19' - 4" 10		15'-8"		20' - 8" 6	12	1'-6"4 17			_			25' - 2"	10							21'-6"23
	4		1 -						100	1 7	, 0 1 11	1 ' -	, , ,	′ ′ ′		' '	<u> </u>	<u> </u>							. 1 0 40

	QUANTI	TIES	
CONCRETE/ 25' UNIT	STEEL / 25' UNIT	CONCRETE PER LIN.FT.	STEEL PER LIN,FT.
C.Y.	LBS.	C.Y.	LBS.
7.23	498	0.29	19
8.72	648	0.35	25
10.51	691	0.42	27
12.81	854	0.5/	34
15.30	1039	0.67	4 /
16.81	1275	0.67	5 /
20.81	1512	0.83	60
24 .45	1615	0.98	64
29 .45	2024	1.18	80
32.60	229 1	1.30	9 /
40.11	2536	1.60	101
49.50	3 44	1.98	125
55.20	3446	2.21	137
60.83	4624	2.43	184
72.97	4917	2.92	196
82.82	5775	3.3/	231
88.87	6576	3.55	263
104.70	8616	4.19	344
	25' UNIT C.Y. 7 .23 8 .72 10 .5 12 .8 15 .30 16 .8 20 .8 24 .45 29 .45 32 .60 40 .1 49 .50 55 .20 60 .83 72 .97 82 .82 88 .87	CONCRETE / 25' UNIT C.Y. LBS. 7.23 498 8.72 648 10.51 691 12.81 854 15.30 1039 16.81 1275 20.81 1512 24.45 1615 29.45 2024 32.60 2291 40.11 2536 49.50 3144 55.20 3446 60.83 4624 72.97 4917 82.82 5775 88.87 6576	25' UNIT PER LIN.FT. C.Y. LBS. C.Y. 7 . 23 498 0 . 29 8 . 72 648 0 . 35 10 . 51 691 0 . 42 12 . 81 854 0 . 51 15 . 30 1039 0 . 61 16 . 81 1275 0 . 67 20 . 81 1512 0 . 83 24 . 45 1615 0 . 98 29 . 45 2024 1 . 18 32 . 60 2291 1 . 30 40 . 11 2536 1 . 60 49 . 50 3144 1 . 98 55 . 20 3446 2 . 21 60 . 83 4624 2 . 43 72 . 97 4917 2 . 92 82 . 82 5775 3 . 31 88 . 87 6576 3 . 55



To accommodate the Variable Height of a wall Unit, vertical Bars may be field cut to fit and the number of horizontal Bars G required by the highest wall dimension within a 25' Unit shall be equally spaced at each end of the Unit.



NOTE.

Bars M Paired with Bars F and Bars Al Paired with Bars J. Bars F and M are No.4 Bars. Bars J are as shown.

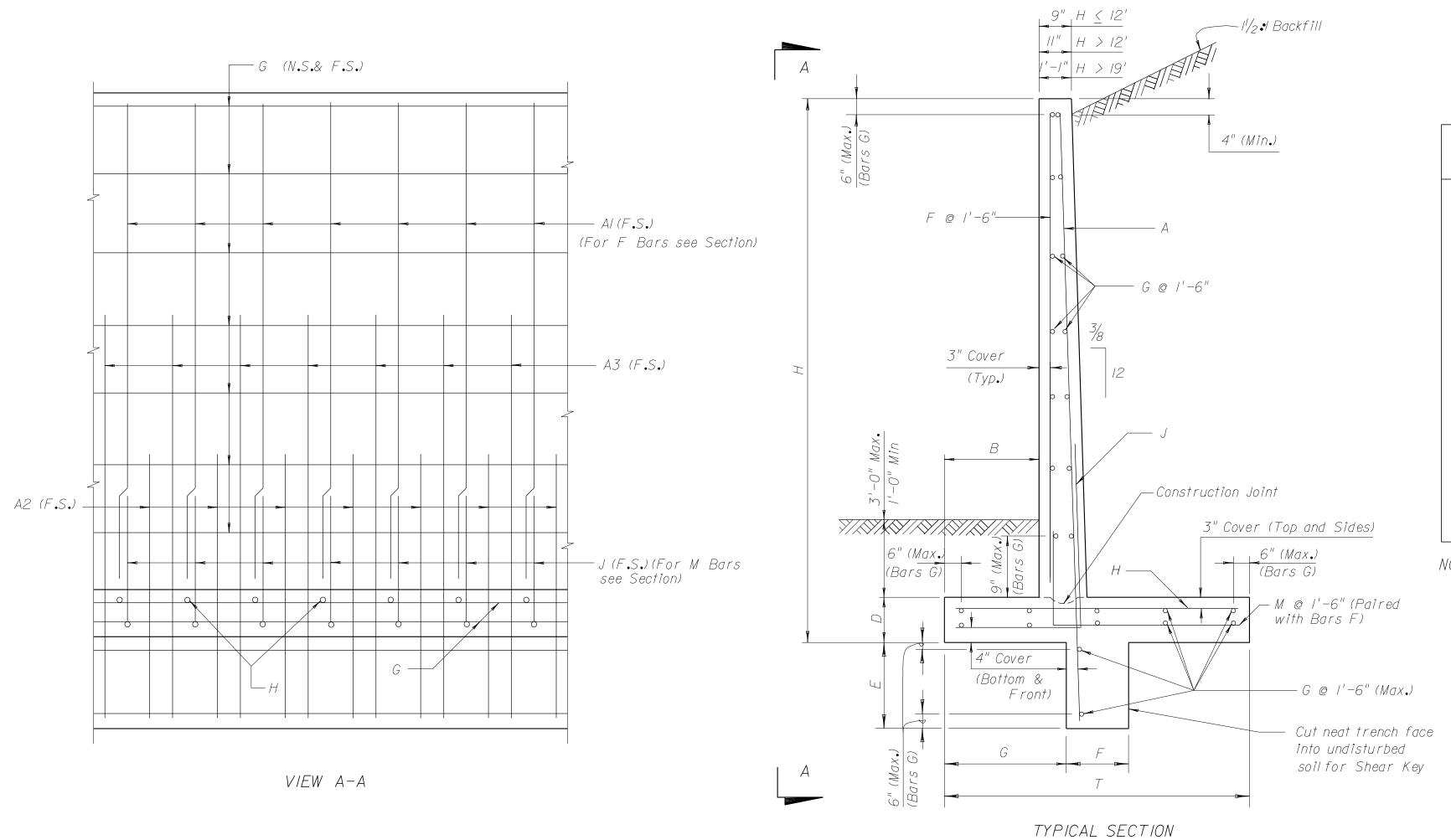
> NOTE: For placement details for Bars D see Standard Index No.800.

	TYPICAL SECTION	
DATE BY DESCRIPTION DATE BY DESCRIPTION DRAWN BY	NAMES DATES ENGINEER OF RECORD: LOGO: SEAL: NAMES DATES M:P. 3/87 ENGINEER OF RECORD: LOGO: CASE IV (5.0 KIPS/SQ FT MAX BEARING NAMES DATES CASE IV (5.0 KIPS/SQ FT MAX BEARING NAMES DATES CASE IV (5.0 KIPS/SQ FT MAX BEARING CASE IV (5.0 KIPS/S	DRAWING NO.
90R CHECKED BY	M.I. 3/87 STRUCTURES DESIGN OFFICE STRUCTURES DESIGN OFFICE PRESSURE) 6 FT. TO 23 FT. HEIGHT	/ 01 /
DESIGNED B CHECKED BY	605 Suwannee Street, MS 33 Tallahassee, Florida 32399-0450	INDEX NO.
APPROVED BY	$A_{\bullet}G_{\bullet}M_{\bullet}$	821

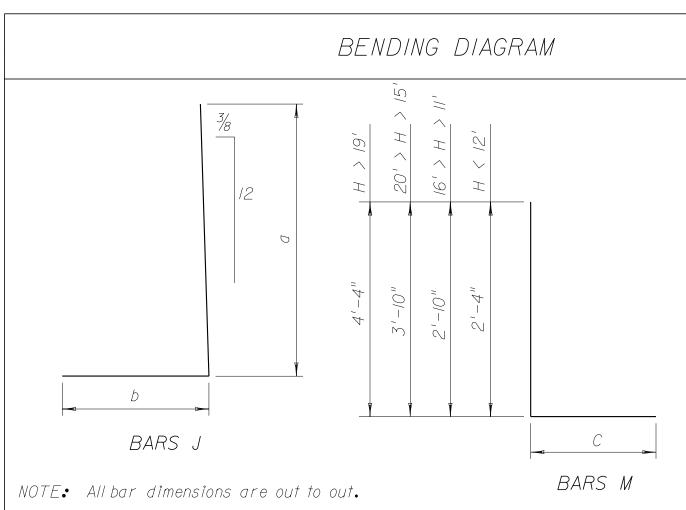
			E 1 C C 1	CHEET
D. ROAD	STATE	PROJECT NO.	FISCA YEAR	L SHEET NO∙
3	FLA.		٠	

	RETAINING WALL DATA												
WALL DIMENSIONS	SHEAR KEY DIME	ENSIONS						REINFORCING ST	TEEL SCHEDULE				
H B D T E	E F	G	BARS AI	BARS A	2	BARS A3	BARS D	BARS F BA	ARS G	BARS H	BARS J	BARS M	
				ZE NO. LENGTH SIZE NO	SPACING	LENGTH	SIZE NO. SPACING LENGTH SIZE	NO. LENGTH SIZE	NO. LENGTH SIZE NO	. LENGTH SIZE NO.	SPACING LENGTH	SIZE NO. SPACING a b LENGTH	H SIZE NO. C
. 6 10" 11" 3 '-11"						6	4 / ' - 6" 4	17 4'-7" 4 14	24'-6"4 18	1'-5" 3'-5"	4 25 1'- 0" 5'- 5" 1'- 3" 6'- 8"	4 17 2'-7" 4	. ' - / / '' 6
7 ' - 3" 4 - 8"						6	5 1'-6"4	17 5'-7" 4 18	8 24' - 6" 4 18	1'-5" 4'-2"	4 25 1'- 0" 6'- 5" 1'- 8" 8'- 1"	4 17 2'-11" 5	<u>, ' </u>
8 1 ' - 3" 1 ' - 0" 5 ' - 4"						6	5 1'-6"4	17 6'-6" 4 18	8 24' - 6" 4 23		4 28 11" 7' - 5" 1 ' - 8" 9 ' - 1"	4 17 3' - 7" 5	, ' - / / '' 8
9 1'- 6" 1'- 0" 5'-10"	/ ' - 0'' / ' - 0'' /	' - / / ''	4 13	9 1'- 3''	5'-8"	6	6 1'-6"4	17 7'-6" 4 24	24'-6" 4 23		4 20 1'- 3" 8'- 5" 2'- 0" 10'- 5"	4 17 3'-10'' 6	. ' - 2" 9
10 1'- 8" 1'- 2" 6'- 7"	/ ' - 0" / ' - 0" 2	' - / ''	4 27	7 / / ''	4'-//''	6	7 1'-6"4	17 8'-4" 4 26	5 24' - 6" 4 30	10" 6'-1"	4 28 11" 9' - 5" 2' - 2" 11' - 7"	4 17 4' - 5" 6	. ' - 9" / 0
	/ ' - 0" / ' - 0" 2	' - 4''	5 22	2 / ' - / ''	5'-//''	6	7 1' - 6'' 4	17 9'-4" 4 28	8 24' - 6" 4 25	/ ' - 0" 6 ' - 7"	5 23 1' - 1" 0' - 5" 2' - 5" 2' - 10"	4 17 4' - 9" 7	' - / '' / /
12 2'- 0" 1'- 5" 8'- 0"		' - 6''	5 27	/ / ''	6'-9"	6	8 1'-6" 4	17 10'-1" 4 30	24'-6" 4 25	/ ' - 0" 7 ' - 6"	5 28 - 5" 2" - 7" 4" - 0"	4 17 5' - 6" 8	. ' - 4" / 2
13 2'- 3" '- 5" 8'- 6"	1'-5" 1'-2"2	' - / / ''	6 27	7 / / //	7'-/"	6	8 1'-6" 4	17 1 1 - 1 4 30	24'-6" 4 28	11" 8'-0"	5 28	4 17 5' - 9" 8	7"/3
14 2' - 3" ' - 8" 9' - 6"	/ ' - 6" / ' - / '' 3	' - 0''	6 2	1 ' - 0''	7'-6"	6	9 1'-6" 4	17 11 ' - 10 '' 4 34	24'-6" 5 34	9" 9'-0"	6 25 1 ' - 0" 3 ' - 5" 3 ' - 1" 6 ' - 6"	4 17 6' - 9" 9	7"/4
15 2' - 6" ' - 8" 9' - 9"	2'-0" '-3"3	' - 3'' 5	20 12'-10" 6 19	9 1'-3"	7'-10"	6	10 1'-6" 4	17 12' - 10'' 4 36	5 24' - 6" 5 38	8" 9'- 3"	6 20 1'- 3" 3'-11" 3'- 4" 7'- 3"	4 17 6' - 9" 9	7'-7"/5
16 3'- 0" 2'- 2" 10'- 9"	1'-9"1'-3"3	'-/0" 5	17 13' - 4" 6 16	6 / ' - 6 ''	8'-4"	6 16 1' - 6" 2' - 4" 6	10 1'-6" 4	17 3' - 4" 4 38	3 24' - 6" 5 43	7" /0'- 3"	7 17 1' - 6" 5' - 4" 3' - 10" 9' - 2"	4 17 7'-3"11	/ ' - / '' / 6
17 3'- 6" 2'- 8" 11'- 9"	1'-6"1'-2"4	' - 4'' 5	19 13'-10" 6 18	3 / ' - 4''	9'-10"	6 18 1' - 4" 2' - 10" 6	10 1'-6" 4	17 13'-10" 4 40	24'-6" 5 60	5" //'- 3"	7 19 1 ' - 4" 7 ' - 1" 4 ' - 5" 1 ' - 6"	4 17 7'-9"11	/ ' - 7" /7
18 3' - 6" 2' - 8" 12' - 10"	2'-0"/'-3"4	' - 4'' 5	17 14'-10" 6 16	6 1'-6"	10'-10"	6 16 1' - 6" 3' - 10" 6	11 1'-6" 4	17 14'-10" 4 42	2 24' - 6" 5 60	5" /2'- 4"	8 17 1' - 6" 8' - 9" 4' - 5" 3' - 2"	4 17 8'-10" 12	2'-8"/8
19 4'- 0" 2'- 8" 13'- 4"	2'-4" '-4"4	'-//'' 5	17 15'-10" 8 16	6 1'-6"	12'-6"	8 16 1' - 6" 9' - 6" 6	12 1'-6" 4	17 15'-10" 4 44	24'-6" 5 60	5" 2'-10"	9 17 1' - 6" 8' - 1" 5 ' - 0" 3 ' - 1"	4 17 8'-10'' 12	2'-8"19
20 4'- 6" 2'-//" /5'- /"	2'-3" '-4"5	' - 7'' 6	17 16' - 7" 8 16	6 1'-6"	12'-0"	8 16 1' - 6" 16' - 0" 6	12 1'-6" 4	17 16'-7" 4 46	5 24' - 6" 6 43	7" /4'-7"	9 17 1' - 6" 8' - 5" 5 ' - 8" 4 ' - 1"	4 17 10' - 1'' 14	4'-5"20
21 5'- 0" 2'-11" 16'- 7"	2'-8" '-6"6	' - / '' 6	19 17' - 7" 8 18	3 1'-4"	13'-4"	8 18 1' - 4" 17' - 4" 6	13 1'-6" 4	17 17' - 7" 4 53	3 24' - 6" 6 43	7" 6'-1"	9 19 1' - 4" 8' - 5" 6 ' - 2" 14' - 7"	4 17 11' - 1'' 15	5'-5"21
22 5'- 6" 2'-11" 18'- 1"	3'-0"/'-7"6	' - 8'' 6	17 18' - 7" 9 16	6 / ' - 6"	14'-4"	9 16 1' - 6" 9' - 4" 6	13 1'-6" 4	17 18' - 7" 4 55	5 24' - 6" 6 43	7" 7' - 7"	10 17 1' - 6" 0' - 3" 6' - 9" 17' - 0"	4 17 12' - 1'' 16	5'-5"22
23 6'- 0" 3'- 2" 19'- 8"	3'-0"/'-6"7	' - 2" 7	19 19' - 4" 10 18	3 1'-4"	15'-8"	10 18 1'-4" 20'-8" 6	14 1'-6" 4	17 19' - 4" 4 57	24'-6"6 50	6" 9'-2"	10 19 1' - 4" 10' - 3" 7' - 3" 17' - 6"	4 17 13' - 2" 17	7'-6"23
24 6' - 6" 3' - 2" 21' - 2"	3'-4" '-7"7	' - 9" 7	17 20' - 4" 10 16	6 1'-6"	15'-11"	10 16 1'-6" 21'-11" 6	15 1'-6"4	17 20' - 4" 4 61	24'-6"6 50	6" 20' - 8"		4 17 14' - 2'' 18	3'-6"24
25 7'- 6" 3'- 2" 24'- 2"	3'-6" '-7"8	' - 9" 7	20 21' - 4" 10 10) / ' - 3''	77'-2"	10 19 1'- 3" 21'- 2" 6	15 1'-6"4	17 21' - 4" 4 64	24'-6"6 50	6" 23' - 8"		4 17 16 ' - 2'' 20)'- 6"25
26 8'- 0" 3'- 5" 25'- 9"	3'-7" '-7"9	' - 3'' 7	20 22' - 1" 1 19	9 1'- 3"	16'-11"	11 19 1'- 3" 25'- 5" 6	16 1'-6" 4	17 22' - 1" 4 71	24'-6"6 50	6" 25' - 3"		4 17 17 ' - 3" 21	1'-7"26

QUANTITIES						
	CONCRETE/ 25' UNIT	STEEL / 25' UNIT	CONCRETE PER LIN.FT.	STEEL PER LIN.FT.		
Н	C.Y.	LBS.	C.Y.	LBS.		
6	7.23	498	0.29	19		
7	8.72	613	0.35	24		
8	10.51	691	0.42	27		
9	12.81	854	0.5/	34		
10	15.30	1039	0.67	41		
/ /	16.81	1214	0.67	48		
12	20.81	1442	0.83	57		
13	24 .45	1619	0.98	64		
14	28.83	2029	1.15	8 /		
15	31.25	2251	1.25	90		
16	38.10	2433	1.52	97		
17	45.77	3003	1.83	120		
18	50.42	3249	2.02	129		
19	53.53	4277	2.14	171		
20	64.87	4507	2.59	180		
21	71.36	5227	2.85	209		
22	77.64	6012	3.//	240		
23	87 .42	7817	3.50	312		
24	94.13	8112	3.77	324		
25	104.79	8879	4.19	355		
26	116.75	11024	4.67	440		



To accommodate the Variable Height of a wall Unit, vertical Bars may be field cut to fit and the number of horizontal Bars G required by the highest wall dimension within a 25' Unit shall be equally spaced at each end of the Unit.



NOTE.

Bars M Paired with Bars F and Bars Al Paired with Bars J. Bars F and M are No.4 Bars. Bars J are as shown.

> NOTE: For placement details for Bars D see Standard Index No.800.

REVISIONS	NAMES DATES ENGINEER OF RECORD: LOGO: SEAL:	DRAWING NO.
DATE BY DESCRIPTION DATE BY DESCRIPTION DRAWN BY	M.I. 3/87 CASE IV (6.0 KIPS/SQ F I MAX BEARING	
OHECKED BY	M.P. 3/87 STRUCTURES DESIGN OFFICE PRESSURE) 6 FT. TO 26 FT. HEIGHT	1011
	= V =	INDEX NO.
		INDEX NO.
	Tallahassee, Florida 32399-0450	822
APPROVED BY	$A_{\bullet}G_{\bullet}M_{\bullet}$	
	DATE BY DESCRIPTION DATE BY DESCRIPTION DRAWN BY	REVISIONS DATE BY DESCRIPTION DATE BY DESCRIPTION DRAWN BY M.I. 3/87 CHECKED BY M.P. 3/87 DESIGNED BY CHECKED



Outside Edge of Approach Slab

