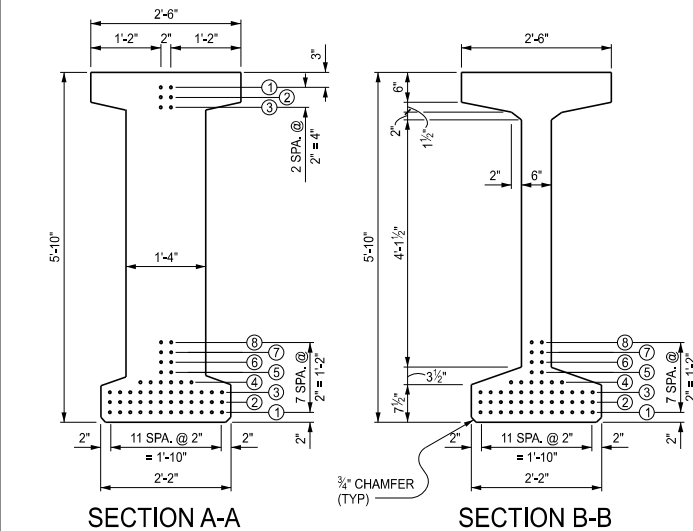
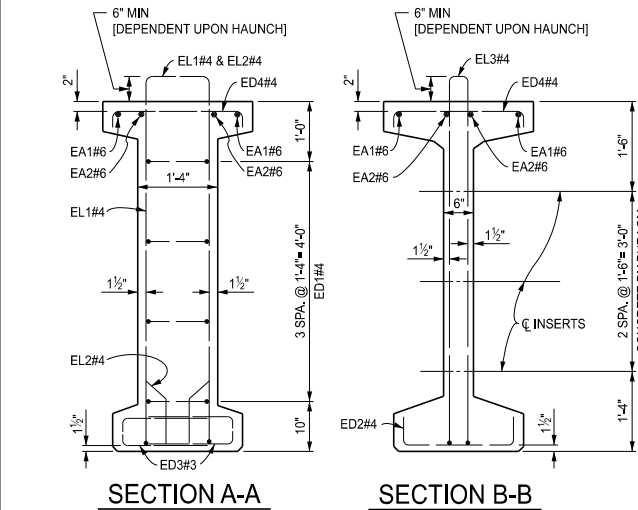


"E" INDICATES EPOXY COATED BAR



FINAL ROW PLAN REVISIONS				SUBMITTAL DATE:			
NO.	DATE	AUTH	DESCRIPTION	NO.	DATE	AUTH	DESCRIPTION

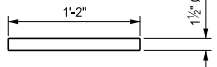
BEAM DIMENSIONS				
MARK				
NO. REQ.				
a				
b				
c				
d				
E				
f				
f'				
g				
G				
h				
I				
J				
K				
L*				
L**				
M#				
N#				
P				
R				
T				
U				
V				
X				
Y				
APPROX. WEIGHT				

ELASTOMERIC PAD AND SHIM DIMENSIONS								
	SPAN		SPAN		SPAN		SPAN	
	ABUT	PIER	PIER	PIER	PIER	PIER	PIER	ABUT
THICKNESS								
(L) PARALLEL TO BEAM								
(W) PERPENDIC. TO BEAM								
GG								
LAYERS	@	@	@	@	@	@	@	@
SHIMS	@	@	@	@	@	@	@	@

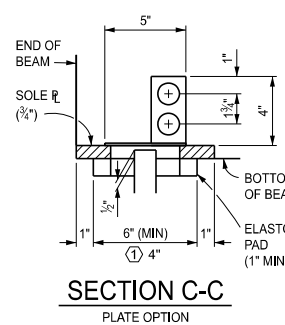
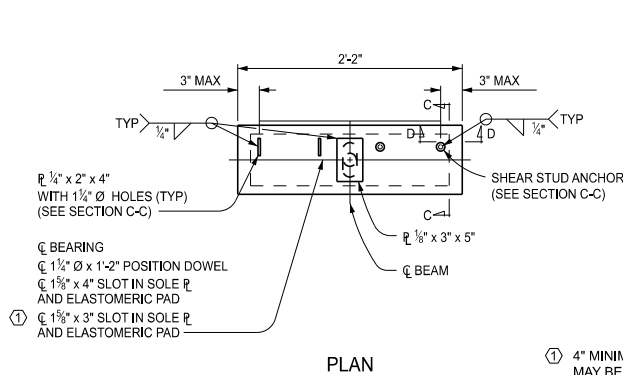
[illegible][illegible]

NOTE TO USERS

- ③ WHEN L OR L' EXCEED 3" ADD ED5#4 BAR PARALLEL TO END OF BEAM.
ADD EF AND EC BAR WITH ED BAR ON "L" END OF BEAM.
- ④ INSERT LOCATIONS MAY BE DECREASED UP TO 1" TOWARD BEAM END TO
AVOID VERTICAL REINFORCEMENT.

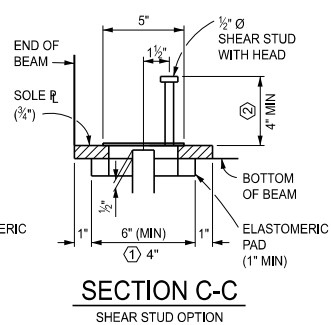


MISCELLANEOUS QUANTITIES	
_____ Sin Bearing, Elastomeric, _____ inch	
_____ Ft Prest Conc I Beam, Furn	
_____ Ft Prest Conc I Beam, Erect	

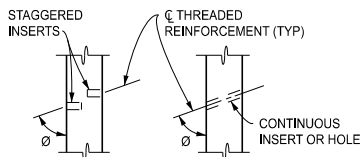
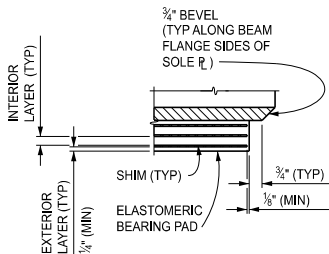


SECTION C-C

SHEAR STUD OPTION



SECTION D-D



STAGGER CONCRETE INSERTS AT ENDS OF BEAMS.

USE CONTINUOUS OR STAGGERED INSERTS AT MIDSPAN. [USE FOR CONCRETE DIAPHRAGMS]

USE STAGGERED INSERTS AT MIDSPAN AND INDEPENDENT BACKWALLS, CAST PERPENDICULAR TO BEAM WEBS. [USE WITH STEEL DIAPHRAGMS WHEN REQUIRED Ø ANGLE IS < 80°]

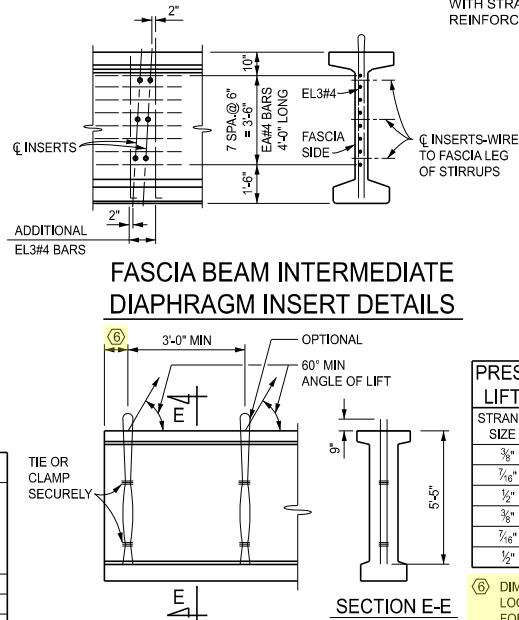
USE CONTINUOUS HOLE FORMED WITH 1½" I.D. PLASTIC PIPE. [USE WITH STEEL DIAPHRAGMS WHEN REQUIRED Ø ANGLE IS ≥ 80° AND AT DEPENDENT BACKWALLS.]

BEND THREADED REINFORCEMENT FOR STAGGERED INSERTS TO THE REQUIRED \emptyset ANGLE PRIOR TO INSTALLATION. [USE FOR CONCRETE DIAPHRAGMS AND ABUTMENTS WITH DEPENDENT BACKWALLS]

INSTALLATION OF BENT REINFORCEMENT MAY BE REQUIRED BEFORE BEAM IS ERECTED PRIOR TO INSTALLATION. [USE FOR CONCRETE DIAPHRAGMS AND ABUTMENTS WITH DEPENDENT BACKWALLS]

OMIT INSERTS ON OUTSIDE OF FASCIA BEAMS EXCEPT AT ABUTMENTS WITH DEPENDENT BACKWALLS.

USE CONCRETE INSERTS AT MIDSPAN, PIERS AND INDEPENDENT BACKWALL BRIDGES ON THE INTERIOR OF FASCIA BEAMS. OTHER BEAMS MAY USE INSERTS OR CONTINUOUS HOLES.



STRAND SIZE	NO. OF STRANDS	ALLOWABLE BEAM WT.
¾"	4	40 TONS
7/16"	4	54 TONS
½"	4	72 TONS
3/8"	3	30 TONS
7/16"	3	40.5 TONS
½"	3	54 TONS


⑥ DIMENSION TO MATCH LIFTING LOOP
LOCATION USED IN STABILITY ANALYSIS
FOR LIFTING AND TRANSPORT

	DATE:	CS:	70" PRESTRESSED CONCRETE	DRAWING	SHEET
	DESIGN UNIT:	JN:	I-BEAM DETAILS		SECT
FILE:	TSC:		PC-2L (12-22-2025)		

NOTE TO USER: NOTES IN "[.....]" ARE GUIDANCE TO THE USER AND GENERALLY ARE REMOVED FROM THE FINAL PLANS BASED ON DESIGN SPECIFIC BEAM DETAILS.

NOTES:

- USE 0.6" NOMINAL DIAMETER PRESTRESSING STRAND MEETING THE REQUIREMENTS OF AASHTO M203 (ASTM A416), GRADE 270, LOW RELAXATION STRAND.
- TENSION 0.6" DIA, PRESTRESSING STRANDS TO AN INITIAL PRESTRESS OF 44,000 LBS.
- PROVIDE CONCRETE INSERTS FOR DRAIN CASTING ASSEMBLY BRACKETS ACCORDING TO STANDARD PLAN B-101-SERIES. CAST INSERTS WITH THE BEAMS. DO NOT FIELD INSTALL INSERTS.
- END BLOCKS ARE (REQUIRED) (OPTIONAL).
- TOTAL ESTIMATED CHANGE OF LENGTH OF BOTTOM FLANGE AT TRANSFER OF PRESTRESS FORCE IS ____".
- THE ESTIMATED BEAM CAMBER AT RELEASE IS ____". THIS CAMBER IS DUE TO PRESTRESS AND DEAD LOAD OF THE BEAM ONLY AND IS MEASURED IN THE ERECTED POSITION.
- DURING HANDLING AND TRANSPORTATION, SUPPORT BEAMS ____ FEET FROM THE END, IF TWO ADDITIONAL STRANDS ARE DRAPED, SUPPORT BEAMS ____ FEET FROM THE END.
- BEAMS IN SPAN(S) ____ MAY BE Laterally UNSTABLE. TAKE PRECAUTIONS TO ENSURE THAT BEAMS ARE NOT DAMAGED DURING HANDLING AND TRANSPORTATION. [USE WHEN FACTOR OF SAFETY FOR LATERAL BUCKLING IS 1.2 OR LESS.]
- THREADING OF REINFORCEMENT AND INSTALLATION INTO CONCRETE INSERTS IS INCLUDED IN THE BID ITEM ("PREST CONC I BEAM, FURN, __ INCH").
- REMOVE LIFTING DEVICES AFTER BEAMS ARE ERECTED, CUT LIFTING DEVICE 1" ABOVE STEEL REINFORCEMENT AND PROTECT REINFORCEMENT FROM DAMAGE. REMOVAL IS INCLUDED IN THE BID ITEM ("PREST CONC I BEAM, ERECT, __ INCH").
- AT THE LOCATIONS SHOWN ON THE PLANS, APPLY SILANE TO THE BEAM ENDS FOR A DISTANCE OF ____ FEET, STARTING FROM THE BEAM END AT THE JOINT, COATING BOTH SIDES, BOTTOM AND ENDS OF BEAMS (DO NOT COAT OUTSIDE AND BOTTOM OF FASCIA BEAMS,). [USE ON PRESTRESSED I-BEAM PROJECTS WITH EXPANSION JOINTS. SHOW THE LOCATIONS TO BE COATED ON THE ERECTION DIAGRAM, IF CONCRETE SURFACE COATING IS BEING APPLIED TO FASCIA BEAMS, DO NOT APPLY SILANE IN AREAS THAT WILL RECEIVE CONCRETE SURFACE COATING. INCLUDE SPECIAL PROVISION FOR SILANE TREATMENT FOR BRIDGE CONCRETE.]
- APPLY CONCRETE SURFACE COATING TO THE ENTIRE OUTSIDE AND BOTTOM OF THE FASCIA BEAMS. (USE CONCRETE SURFACE COATING AMS-STD-595 COLOR NUMBER [INSERT NUMBER], [INSERT COLOR].) [USE ON PRESTRESSED I-BEAM BRIDGES WHERE COATING FASCIA BEAMS WILL NOT SIGNIFICANTLY AFFECT THE MAINTAINING TRAFFIC AND WHEN REQUESTED BY THE REGION OR ROADSIDE DEVELOPMENT SECTION.]
- PROVIDE GRADE 60 (KSI) BEAM STEEL REINFORCEMENT, INCLUDING STIRRUPS.
- FIELD DRILLING IS ALLOWED FOR SIGN SUPPORT ANCHORS ONLY. LOCATION OF ANCHORS IS AS DETAILED ON TRAFFIC & SAFETY SIGN SUPPORT SPECIAL DETAILS. REPAIR ANY DAMAGE TO THE BEAMS AT THE CONTRACTOR'S EXPENSE AS APPROVED BY THE ENGINEER.
- GALVANIZE OR EPOXY COAT ITEMS CAST INTO THE BEAMS TO FACILITATE BRIDGE CONSTRUCTION (FORMING, FINISHING, ETC.).
- USE $\frac{3}{4}$ " (1") DIAMETER CONCRETE INSERTS; DAYTON SUPERIOR, TYPE B-1 TWO STRUT COIL TIE - (HEAVY) $\frac{3}{4}$ " (STANDARD) [1"] OR TYPE B18 SINGLE FLARED COIL LOOP INSERT; WILLIAMS FORM, TYPE C12 TWO STRUT COIL TIE OR TYPE C19 FLARED COIL LOOP INSERT; MEADOW BURKE, TYPE CX-4 COIL LOOP INSERT-FLARED; OR ENGINEER APPROVED EQUAL. ELECTROPLATE GALVANIZE COIL INSERTS IN ACCORDANCE WITH ASTM B633, SERVICE CONDITION 4. CAST INSERTS WITH THE BEAMS. DO NOT FIELD INSTALL INSERTS. [USE FOR I-BEAMS AT BACKWALLS OR CONCRETE DIAPHRAGMS.]
- USE $\frac{3}{4}$ " BOLT DIAMETER CONCRETE INSERTS; DAYTON SUPERIOR, F42 OR F64 FERRULE LOOP INSERT; WILLIAMS FORM, F15 OR F16 FERRULE LOOP INSERT; MEADOW BURKE, FX-2 OR FX-5 FERRULE INSERT - LOOP; OR ENGINEER APPROVED EQUAL. ELECTROPLATE GALVANIZE FERRULE INSERTS AND BOLTS IN ACCORDANCE WITH ASTM B633, SERVICE CONDITION 4. CAST INSERTS WITH THE BEAMS. DO NOT FIELD INSTALL INSERTS. [USE WITH 70" DEEP BEAMS WITH STEEL DIAPHRAGMS.]

FINAL ROW PLAN REVISIONS SUBMITTAL DATE:									NO SCALE	DATE:	CS:	70" PRESTRESSED CONCRETE	DRAWING	SHEET
NO.	DATE	AUTH	DESCRIPTION	NO.	DATE	AUTH	DESCRIPTION							
								FILE:		DESIGN UNIT:	JN:	I-BEAM DETAILS		SECT
										TSC:		PC-2L (12-22-2025)		