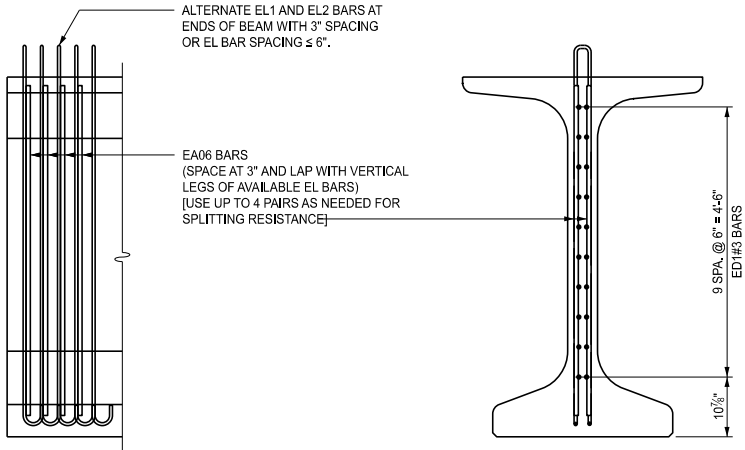



PRESTRESSED CONCRETE	DRAWING	SHEET
1800 BEAM DETAILS		SECT
PC-4H (03-24-2025)		

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



END OF BEAM
ADDITIONAL REINFORCEMENT
[[USE IF REQUIRED FOR SPLITTING RESISTANCE]]

- 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.
- 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 1800 BEAM, FURN").
- REMOVE LIFTING DEVICES AFTER BEAMS ARE ERECTED. REMOVAL IS INCLUDED IN THE BID ITEM ("PREST CONC 1800 BEAM, ERECT").
- FILL HOLES CAST OR FORMED IN THE BEAM WITH NON-SHRINKING GROUT. INCLUDED IN THE BID ITEM ("PREST CONC 1800 BEAM, ERECT").
- 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 MICHIGAN 1800 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 MICHIGAN 1800 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 $\frac{3}{8}$ " (1") DIAMETER CONCRETE INSERTS; DAYTON SUPERIOR, F63 FLARED THIN SLAB COIL INSERT; WILLIAMS FORM, C18 COIL WINGNUT INSERT; MEADOW BURKE, CX-28 COIL WINGNUT INSERT; 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 MICHIGAN (MI) 1800 BEAMS AT BACKWALLS OR CONCRETE DIAPHRAGMS.]
- USE $\frac{7}{8}$ " BOLT DIAMETER, 4 $\frac{1}{2}$ " (4 $\frac{3}{4}$ ") LONG CONCRETE INSERTS; DAYTON SUPERIOR, F42 OR F64 LOOP FERRULE 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 FOR MICHIGAN 1800 BEAMS WITH STEEL DIAPHRAGMS.]

FINAL ROW PLAN REVISIONS								SUBMITTAL DATE:		<div><div>MDOT</div>Michigan Department of Transportation</div>	NO SCALE		DATE:	CS:	PRESTRESSED CONCRETE		DRAWING	SHEET
NO.	DATE	AUTH	DESCRIPTION	NO.	DATE	AUTH	DESCRIPTION		DESIGN UNIT:			JN:	1800 BEAM DETAILS			SECT		
									FILE:			TSC:		PC-4H (03-24-2025)				