

ALL PRESTRESSING STRANDS SHALL BE 7-WIRE LOW RELAXATION GRADE 270 STRANDS AND SHALL CONFORM TO AASHTO M203 EXCEPT FOR SAMPLING REQUIREMENTS WHICH SHALL BE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS.

ALL REINFORCING STEEL CAST WITH THE CORED SLAB SECTIONS SHALL BE GRADE 60 AND SHALL BE INCLUDED IN THE UNIT PRICE BID FOR PRESTRESSED CONCRETE CORED SLABS.

RECESSES FOR TRANSVERSE STRANDS SHALL BE GROUTED AFTER THE TENSIONING OF THE STRANDS.

THE 2½" Ø DOWEL HOLES AT FIXED ENDS OF SLAB SECTIONS SHALL BE FILLED WITH GROUT. THE 2½" Ø DOWEL HOLES AT EXPANSION ENDS OF SLAB SECTIONS SHALL BE FILLED WITH JOINT SEALER MATERIAL TO 1½" ABOVE THE TOP OF DOWELS AND THEN FILLED WITH GROUT.

THE JOINT SEALER MATERIAL SHALL CONFORM TO THE REQUIREMENTS OF TYPE SL LOW MODULUS SILICONE SEALANT. THE 2"Ø BACKER ROD SHALL CONFORM TO THE REQUIREMENTS OF TYPE M BOND BREAKER. SEE SECTION 1028 OF THE STANDARD SPECIFICATIONS.

WHEN CORED SLABS ARE CAST, AN INTERNAL HOLD-DOWN SYSTEM SHALL BE EMPLOYED TO PREVENT VOIDS FROM RISING OR MOVING SIDEWAYS. AT LEAST SIX WEEKS PRIOR TO CASTING CORED SLABS, THE CONTRACTOR SHALL SUBMIT TO THE ENGINEER FOR REVIEW AND COMMENT, DETAILED DRAWINGS OF THE PROPOSED HOLD-DOWN SYSTEM. IN ADDITION TO STRUCTURAL DETAILS, LOCATION AND SPACING OF THE HOLD-DOWNS SHALL BE INDICATED.

WHEN A CONCRETE WEARING SURFACE IS DETAILED ON THE CORED SLAB
BRIDGE TYPICAL SECTION, THE TOP SURFACE OF THE CORED SLAB UNITS
SHALL HAVE A $\frac{3}{8}$ " RAKED FINISH.

THE TRANSFER OF LOAD FROM THE ANCHORAGES TO THE CORED SLAB UNIT SHALL BE DONE WHEN THE CONCRETE HAS REACHED A COMPRESSIVE STRENGTH OF NOT LESS THAN ---- PSI.

ALL REINFORCING STEEL IN BARRIER RAILS SHALL BE EPOXY COATED.

PRESTRESSING STRANDS SHALL BE CUT FLUSH WITH THE CORED SLAB UNIT ENDS.

APPLY EPOXY PROTECTIVE COATING TO CORED SLAB UNIT ENDS.

GROOVED CONTRACTION JOINTS, 1/2" IN DEPTH, SHALL BE TOOLED IN ALL EXPOSED FACES OF THE BARRIER RAIL AND IN ACCORDANCE WITH ARTICLE 825-10(B) OF THE STANDARD SPECIFICATIONS. A CONTRACTION JOINT SHALL BE LOCATED AT EACH THIRD POINT BETWEEN BARRIER RAIL EXPANSION JOINTS. ONLY ONE CONTRACTION JOINT IS REQUIRED AT MIDPOINT OF BARRIER RAIL SEGMENTS LESS THAN 20 FEET IN LENGTH AND NO CONTRACTION JOINTS ARE REQUIRED FOR THOSE SEGMENTS LESS THAN 10 FEET IN LENGTH.

FLAME CUTTING OF THE TRANSVERSE POST-TENSIONING STRAND IS NOT ALLOWED.

MAINTAIN A SYMMETRIC TENSION FORCE BETWEEN EACH PAIR OF TRANSVERSE POST TENSIONING STRANDS IN THE DIAPHRAGM.

THE #4 S2 STIRRUPS MAY BE SHIFTED AS NECESSARY TO MAINTAIN 1" CLEAR TO THE GROUTED RECESS.

THE PERMITTED THREADED INSERTS ARE DETAILED AS AN OPTION FOR THE CONTRACTOR TO ATTACH FALSEWORK AND FORMWORK DURING CONSTRUCTION.

THE PERMITTED THREADED INSERTS IN THE EXTERIOR UNITS SHALL BE SIZED BY THE CONTRACTOR, SPACED AT 4'-0" CENTERS AND GALVANIZED IN ACCORDANCE WITH SECTION 1076 OF THE STANDARD SPECIFICATIONS. STAINLESS STEEL THREADED INSERTS MAY BE USED AS AN ALTERNATE.

THE PERMITTED THREADED INSERTS SHALL BE GROUTED BY THE CONTRACTOR IMMEDIATELY FOLLOWING REMOVAL OF THE FALSEWORK.

THE COST OF THE PERMITTED THREADED INSERTS SHALL BE INCLUDED IN THE PRICE BID FOR THE PRECAST UNITS.

| | |
|---|-------------|
| | 0.6" Ø L.R. |
| AREA (SQUARE INCHES) | 0.217 |
| ULTIMATE STRENGTH (LBS. PER STRAND) | 58,600 |
| APPLIED PRESTRESS (LBS. PER STRAND) | 43,950 |

| | | | | EXTERIOR UNIT | | INTERIOR UNIT | |
|----------------------------------|--------|------|------|---------------|----------|---------------|--------|
| BAR | NUMBER | SIZE | TYPE | LENGTH | WEIGHT | LENGTH | WEIGHT |
| B1 | | #4 | STR | | | | |
| S1 | 8 | #5 | 3 | | | | |
| S2 | | #4 | 3 | | | | |
| * S3 | | #5 | 1 | | | | |
| S4 | 4 | #4 | 4 | | | | |
| S5 | 4 | #5 | 3 | 7'-1" | | | |
| | | | | | | | |
| | | | | | | | |
| REINFORCING STEEL | | | | | LBS. | | |
| * EPOXY COATED REINFORCING STEEL | | | | | LBS. | | |
| ---- P.S.I. CONCRETE | | | | | CU. YDS. | | |
| 0.6"Ø L.R. STRANDS | | | | | No. | | |

| | | | |
|---|-----------------------|-----------------------|-----------------------|
| | 3'-0" x 1'-6" | 3'-0" x 1'-9" | 3'-0" x 2'-0" |
| | 0.6" Ø L.R. STRAND | 0.6" Ø L.R. STRAND | 0.6" Ø L.R. STRAND |
| CAMBER (SLAB ALONE IN PLACE) | | | |
| DEFLECTION DUE TO SUPERIMPOSED DEAD LOAD** | | | |
| | | | |
| FINAL CAMBER | | | |

** INCLUDES FUTURE WEARING SURFACE

| BAR | BARS PER SPAN | | | | TOTAL NO. | SIZE | TYPE | LENGTH | WEIGHT |
|---|---------------|--------|--------|--|-----------|------|------|--------|--------|
| | SPAN A | SPAN B | SPAN C | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| * S6 | | | | | | #5 | 2 | 7'-0" | |
| * S7 | | | | | | #5 | 2 | 5'-6" | |
| * EPOXY COATED REINFORCING STEEL | | | | | LBS. | | | | |
| CLASS AA CONCRETE | | | | | CU.YDS. | | | | |
| TOTAL LIN. FT. OF CONCRETE BARRIER RAIL | | | | | | | | | |

| | NUMBER | LENGTH | TOTAL LENGTH |
|---------------|--------|--------|--------------|
| EXTERIOR C.S. | | | |
| INTERIOR C.S. | | | |
| TOTAL | | | |

The technical drawings illustrate the reinforcement details for a reinforced concrete column. The **END VIEW** shows a column with a total height of 2'-8" and a width of 7". The reinforcement includes #5 S7 bars and "B" BARS. Dimensions for the reinforcement layout include 4 7/8" for the top width, 1'-6" for the top length, 9 3/4" for the top length, 3 3/8" for the top length, 10" for the top length, and 1" for the top length. The **SIDE VIEW** shows the column with a total height of 10" and a width of 7". The reinforcement includes #5 S7 bars, #5 S3 bars, and #5 S6 bars. Dimensions for the reinforcement layout include 1'-0" for the top length, 1'-0" for the top length, 1'-0" for the top length, 1'-0" for the top length, and 10" for the top length. The drawings also indicate a **FIELD BEND** and a **FIELD BEND**.

SECTION THROUGH DECK

A cross-sectional diagram of a pile cap. A vertical pile is shown on the right, with a label 'GROUT' pointing to the material between the pile and the cap. The cap itself is a rectangular block with a cross-hatched top layer and a stippled bottom layer. A vertical dimension line labeled 'h' indicates the height of the cap. Two circular pile heads are shown within the cap, represented by dashed lines. The entire diagram is labeled 'SECTION T-T' at the bottom.

AT DAM IN OPEN JOINT
(THIS IS TO BE USED ONLY
WHEN SLIP FORM IS USED)

Technical drawing of a bearing pad assembly showing two views: **FIXED END** and **EXPANSION END**.

FIXED END:

- Central hole: $\varnothing 1"$ HOLES
- Outer hole: $\varnothing 2\frac{1}{2}"$ HOLES
- Dimensions: 8" (total width), 4" (offset from center to hole edge), 2'-6" (height).
- Labels: BEARING PAD - TYPE I -

EXPANSION END:

- Central hole: $\varnothing 2\frac{1}{2}"$ HOLES
- Outer hole: $\varnothing 1"$ HOLES
- Dimensions: 8" (total width), 4" (offset from center to hole edge), 2'-6" (height).
- Labels: BEARING PAD - TYPE II -

(TYPE I - _ REQ' D) (TYPE II - _ REQ' D)

ELASTOMER IN BEARINGS FOR 18" & 21" CSU SHALL BE 50 DUROMETER HARDNESS.
ELASTOMER IN BEARINGS FOR 24" CSU SHALL BE 60 DUROMETER HARDNESS.

| | | |
|-----------------------|------------|---------|
| ASSEMBLED BY : | | DATE : |
| CHECKED BY : | | DATE : |
| DRAWN BY : WJH 4/89 | REV. 1/15 | RWW/TMG |
| CHECKED BY : FCJ 5/89 | REV. 12/17 | MAA/THC |
| | REV. 5/18 | MAA/THC |

DOCUMENT NOT CONSIDERED
FINAL UNLESS ALL
SIGNATURES COMPLETED

| REVISIONS | | | | | | SHEET NO. |
|-----------|-----|-------|-----|-----|-------|--------------|
| NO. | BY: | DATE: | NO. | BY: | DATE: | |
| 1 | | | 3 | | | TOTAL SHEETS |
| 2 | | | 4 | | | |

STD. NO. PCS3