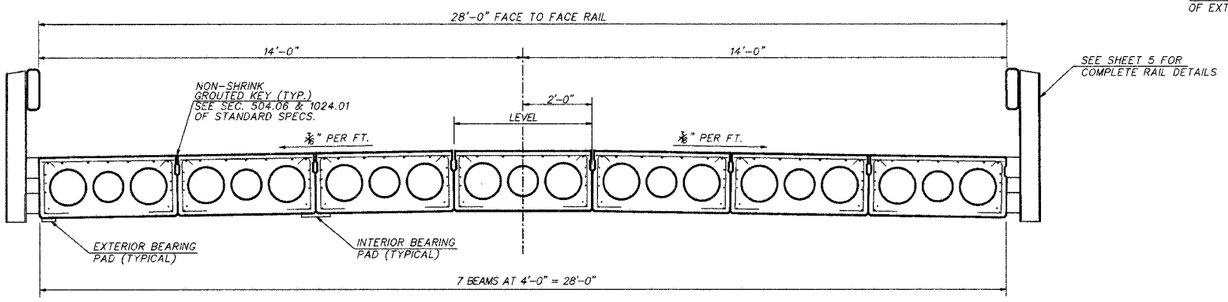
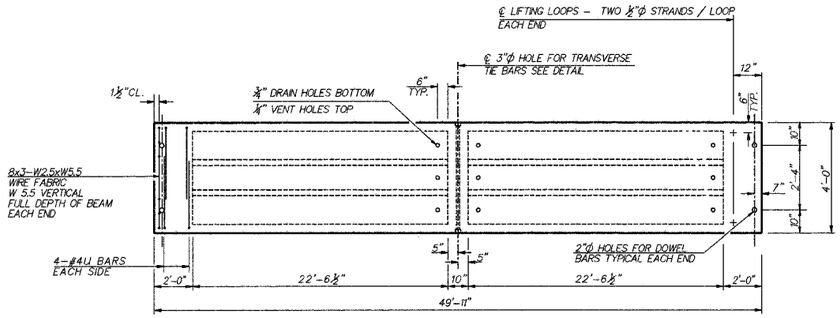
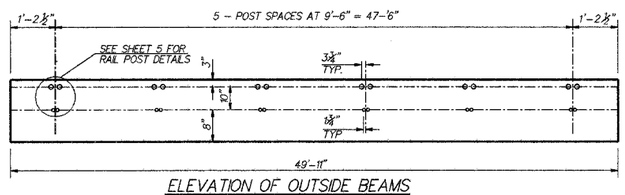
CONTRACT #91300



CROSS SECTION



TYPICAL PLAN OF BEAMS



ELEVATION OF OUTSIDE BEAMS

SHOWING RAIL POST SPACING

PRESTRESSING STEEL SHALL BE NON–GALVANIZED HIGH STRENGTH, STRESS–RELIEVED 7–WIRE STRAND, GRADE 270.

THE NOMINAL DIAMETER SHALL BE ½" AND THE NOMINAL CROSS–SECTIONAL AREA SHALL BE 0.153 SQ. IN.

LIFTING LOOPS SHALL BE ⅝" DIAMETER, 6x25 CLASS WIRE ROPE WITH FIBER CORE AND SHALL HAVE A MINIMUM ULTIMATE TENSILE STRENGTH OF 33,000 LBS, OR 2–½"ϕ–270 KSI STRANDS, AS SHOWN.

KEYWAY SURFACES SHALL BE CLEANED TO REMOVE FORM OIL OR OTHER BOND BREAKING MATERIAL PRIOR TO SHIPMENT OF THE BEAMS. CLEANING SHALL BE DONE BY SANDBLASTING THE KEYWAY AREAS BETWEEN TOP OF THE BEAM AND THE BOTTOM EDGE OF THE KEY.

THE 1"ϕ RODS IN THE TRANSVERSE TIE ASSEMBLY SHALL BE TIGHTENED TO A SNUG FIT AND THE THREADS SET. POCKETS THAT RECEIVE TRANSVERSE TIE ASSEMBLY SHALL BE FILLED WITH GROUT AFTER TRANSVERSE TIE ASSEMBLY IS IN PLACE.

REINFORCEMENT BARS SHALL CONFORM TO AASHTO: M–31, M–42 OR M–53, GRADE 60.

THE BEARING SEAT SURFACES SHALL BE ADJUSTED BY SHIMMING TO ASSURE FIRM AND EVEN BEARING. TWO ⅛" FABRIC ADJUSTING SHIMS OF THE DIMENSIONS OF THE EXTERIOR BEARING PAD SHALL BE PROVIDED FOR EACH BEARING.

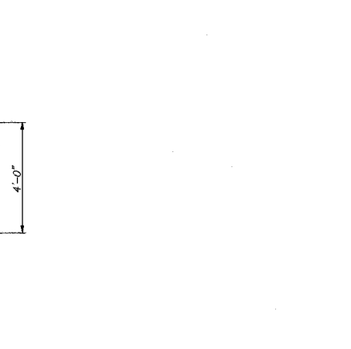
AN EQUAL SUBSTITUTION OF THE LOW–RELAXATION STRANDS FOR THE STRESS–RELIEVED STRANDS WILL BE PERMITTED.

A CALCIUM NITRITE CORROSION INHIBITOR, AS COVERED IN THE SPECIAL PROVISIONS SHALL BE USED IN THE CONCRETE FOR PRECAST PRESTRESSED CONCRETE DECK BEAMS.

THE INITIAL PRESTRESSING FORCE APPLIED TO EACH STRAND SHALL BE THE SAME AS FOR THE STRESS RELIEVED STRANDS (28,900 LBS.)

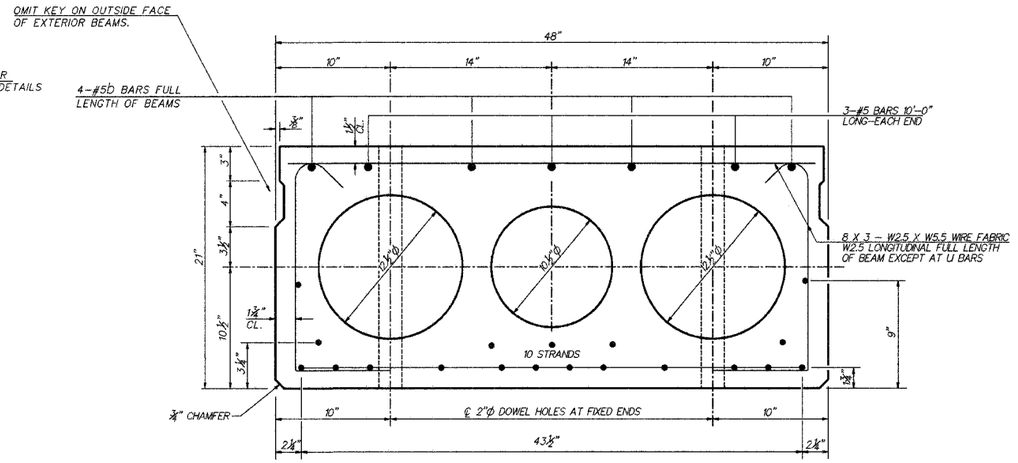
RAIL POST ANCHOR DEVICES SHALL BE CAST INTO OUTSIDE BEAM AS ELSEWHERE SPECIFIED

REQUIRED RELEASE STRENGTH, f'ci, SHALL BE 4,000 PSI



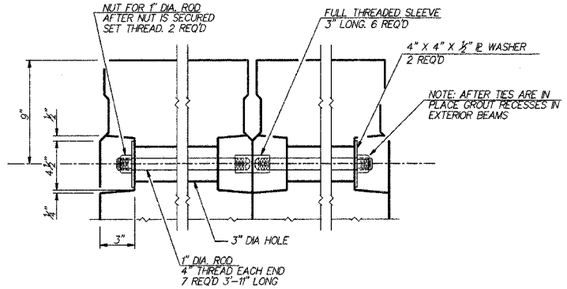
LIFTING LOOP DETAIL

APPROVED ALTERNATE MAY BE SUBSTITUTED FOR ABOVE

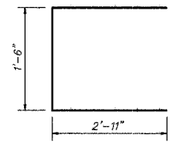


TYPICAL SECTION

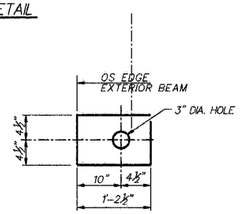
19 – 7 WIRE ½" STRANDS STRESSED TO 28,900 POUNDS 12 1¾" UP., 5 3¼" UP. 2, 9" UP., USE STANDARD GRID PATTERN



TRANSVERSE TIE BAR DETAIL

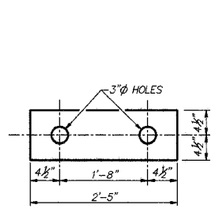


U BAR



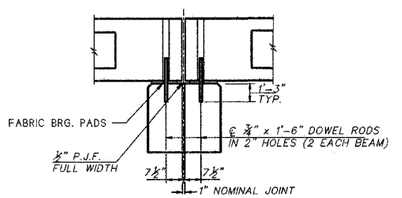
BRG. PAD DETAIL

EXTERIOR (4 REQ'D)



BRG. PAD DETAIL

INTERIOR (12 REQ'D)



SECTION AT PIERS

ALONG ℄ BEAMS

BILL OF MATERIAL

ITEM	UNIT	QUANTITY
PRECAST PRESTRESSED CONCRETE		
DECK BEAMS (21" DEPTH)	SQ. FT.	1398

SUPERSTRUCTURE DETAILS
MIDDLE SPAN
SECTION 99–13116–00–BR
STRATTON TOWNSHIP
EDGAR COUNTY

McCLINTOCK
CIVIL ENGINEERING SERVICE
404 SHAW AVE. PARIS, IL. 61944
PHONE (217) 466–6110

DRN TLC DATE 4/22/03
OK RLMc SCALE

SHEET 4 OF 11
JOB NO. 3137–500–00