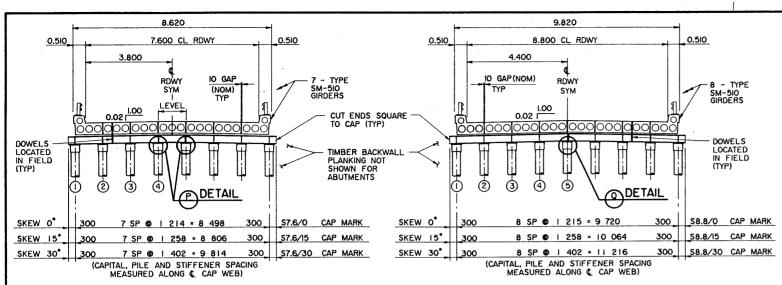
FULL STRENGTH.

SPLICE SO. TO CAP

₽50x5x373 -

SHOP TACK WELD TO CAP



	В	ILL OF M	ATERIALS FOR	ONE CAP ASS	EMBLY		
CLEAR ROADWAY			7.6 m	8.8 m	REMARKS		
CAPITALS: 356 mm# (50 kg) 406 mm# (60 kg)			8	9	AS DETAILED FIELD SELECTED		
NEOPRENE STRIP			ı	1	IOx350 (LENGTH TO MATCH CAP)		
DOWELS:	ABUTMENTS		7	8	22 mm≢ x 800		
	PIERS		14	16			
SET 45 GROUT OR EQUIVALENT			65 LITRES	QUANTITY WILL VARY CONSIDERABLY			
CAP LENG	TH	SQUARE	9 098 (1300 kg)	10 320 (1460 kg)			
AND WEIG	HT:	15° SKEW	9 406 (1340 kg)	10 664 (1510 kg)	AS DETAILED		
		30° SKEW	10 414 (1470 kg)	11 816 (1670 kg)			

7.6 m AND 8.8 m ROADWAY PIER OR ABUTMENT ELEVATION

(0° SKEW SHOWN: CAPS ARE IDENTICAL FOR LHF AND RHF SKEWS)

FULL STRENGTH, SPLICE SQ. TO CAP

STIFFENER OFFSET

SEALED BY WELDING ALONG EDGES OF

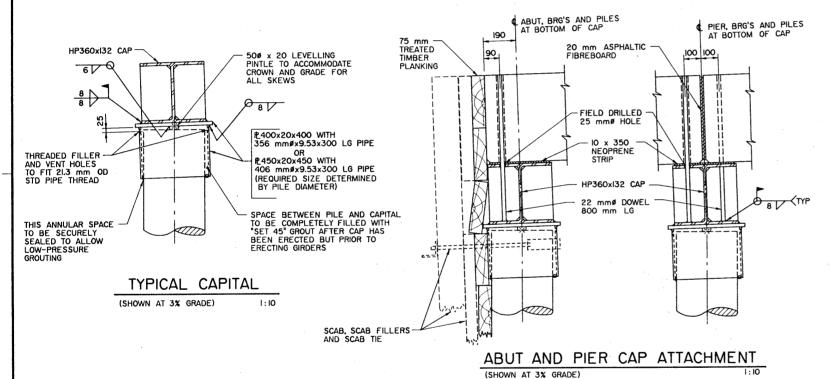
TO CLEAR SPLICE WELD THIS GAP TO BE

BOTH FLANGES

CAPITAL

C PILE

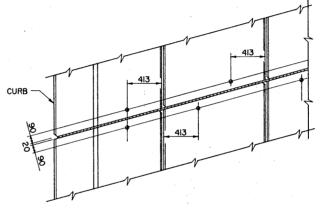
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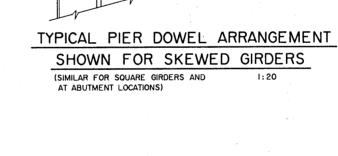


PILE

P50x3x373

SHOP TACK WELD TO CAP







13 mm STIFFENER PLATES IN PAIRS SQUARE TO CAP

HP360xI32 CAP

TYPICAL STIFFENERS

SUPERSEDED

PILE CUTOFF ELEVATIONS

- TO OBTAIN CUT OFF ELEVATIONS, SUBTRACT DIFFERENTIALS FOR GRADE GIVEN IN TABLE (A) FROM THE ROADWAY PROFILE ELEVATIONS AT (C. CROWN AND AT (C. PIER OR (C. ABUTMENT.
- \bullet for Bridges on skews, subtract or add the additional amounts given in Table $(\widehat{\mathbf{B}})$.

CLEAR ROADWAY	SKEW	GRADE %		PILE 2	L				
-	TABLE (A)	DIFFERENTIALS(mm) FOR CROWN, STRUCTURE DEPTH, CAP AND CAPITAL DIMENSIONS.						
7.6 m	ALL	ALL	996	972	947	926	Y/Z/Z		
8.8 m	ALL	ALL	1 008	984	960	935	916		
•	TABLE (B)	DIFFERENTIALS FOR GRADE (mm)						
7.6 m	15°		11	8	5	2	7777		
		2	23	16	10	3			
		3	34	24	15	5			
		4	46	33	20	7			
	30°	T	25	18	- 11	4	V/I/I		
		2	49	35	21	7	V/Z		
		3	74	53	32	11	Y/Z/Z		
		4	98	70	42	14			
8.8 m	15°	l I	13	10	7	3	0		
		2	26	20	13	7	0		
		3	39	29	20	10_	0		
		4	52	39	26	13	0		
	30°		28	21	14	7	0		
		2	56	42	28	14	0		
		3	84	63	42	21	0		
		4	112	84	56	28	0		

GENERAL NOTES

- ALL SUBSTRUCTURE DETAILS AS GIVEN ON DRAWINGS S-1420 AND S-1421 SHALL APPLY EXCEPT AS MODIFIED OR SUBSTITUTED ON THIS DRAWING.
- ALL DIMENSIONS GIVEN IN MILLIMETRES UNLESS OTHERWISE SHOWN.
- DESIGN: LIVE LOAD CSA S6-M78, MS230
- ALL REQUIREMENTS OF THE CURRENT BRIDGE BRANCH SPECIFICATION FOR THE SUPPLY OF STRUCTURAL STEEL FOR BRIDGES (SPEC NO B-187M) SHALL BE MET.
- ALL STEEL SHALL CONFORM TO THE REQUIREMENTS OF ASTM A36 OR CSA G40.2IM-30OW.
- ALL WELDING SHALL CONFORM TO CURRENT AWS SPECIFICATION DI.1.
- CAPS AND EXTERIOR SURFACES OF CAPITALS SHALL BE BLAST CLEANED AND SHOP PAINTED WITH ONE PRIME COAT AND TWO FINISH COATS. CLEANING TO BE APPROVED BY THE ENGINEER PRIOR TO PAINTING.

CONSTRUCTION PROCEDURE FOR NEW SUBSTRUCTURES

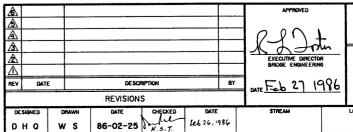
- I. PILES TO BE CUT OFF SQUARE AT REQUIRED ELEVATIONS;
- PLACE SUITABLY SIZED CAPITALS (TRIM PILE TOPS IF NECESSARY); POSITION OPTIMALLY TO ALLOW FOR TILTING OF PINTLES RELATIVE TO PILES FOR CROWN AND GRADE;
- 3. PLACE CAP AND TILT LONGITUDINALLY TO SUIT GRADE;
- 4. DRAW PILES INTO ALIGNMENT; WELD CAPITAL TO CAP;
- 5. ATTACH PIER SWAY BRACING;
- 6. PRESSURE GROUT CAPITALS TO PILE;
- 7. PLACE NEOPRENE BEARING STRIP;
- ERECT GIRDERS; DRILL HOLES THROUGH NEOPRENE STRIP AND TOP FLANGE AND INSTALL DOWELS;
- 9. CLEAN AND FIELD PAINT WELD-DAMAGED PAINTED AREAS.

PROCEDURE MODIFICATIONS FOR REPLACING EXISTING TIMBER CAPS

- PREFABRICATED CAPS MUST BE CHECKED FOR DIMENSIONAL SUITABILITY TO MATCH EXISTING PILE LOCATIONS;
- 2. EXISTING DECK CAN BE DISMANTLED OR UNIFORMLY RAISED ONE PIER AT A TIME BY JACKING ON FALSE BENTS TO ALLOW EXISTING PILES TO BE CUT OFF AT THE REQUIRED LOWER ELEVATIONS;
- WHERE A PILE IS TOO SHORT BY REASON OF EXISTING SUBCAPS, INSERT ANOTHER CAPITAL AND WELD ALL AROUND TO LOWER CAPITAL WITH 8 mm FILLET WELD;
- REMAINING PROCEDURE IS SIMILAR TO THAT FOR NEW STRUCTURES.

ND 5-1446

WORK THESE DRAWINGS TOGETHER: S-1420, S-1421 AND S-1446



Alberta TRANSPORTATION
BRIDGE ENGINEERING BRANCH

STEEL CAP SYSTEM
FOR TREATED TIMBER PILES
STANDARD SM BRIDGES

S-1446