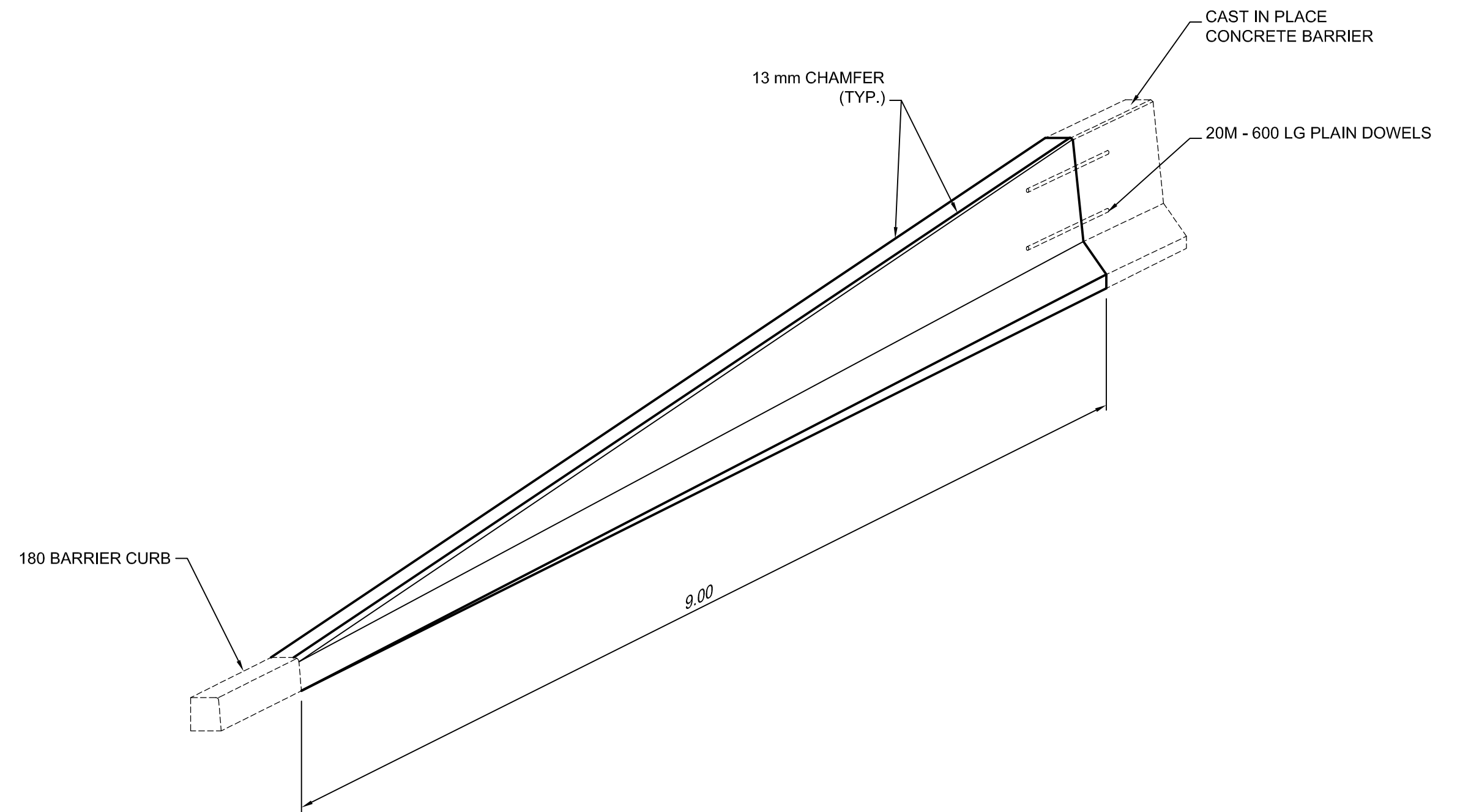
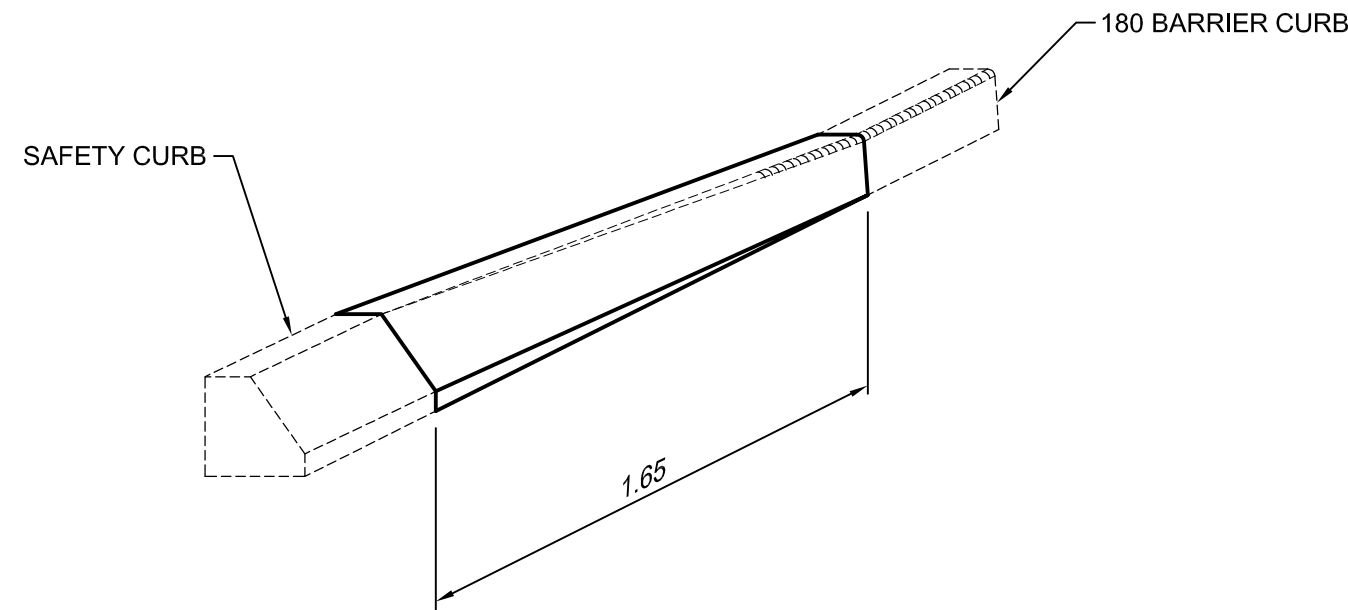
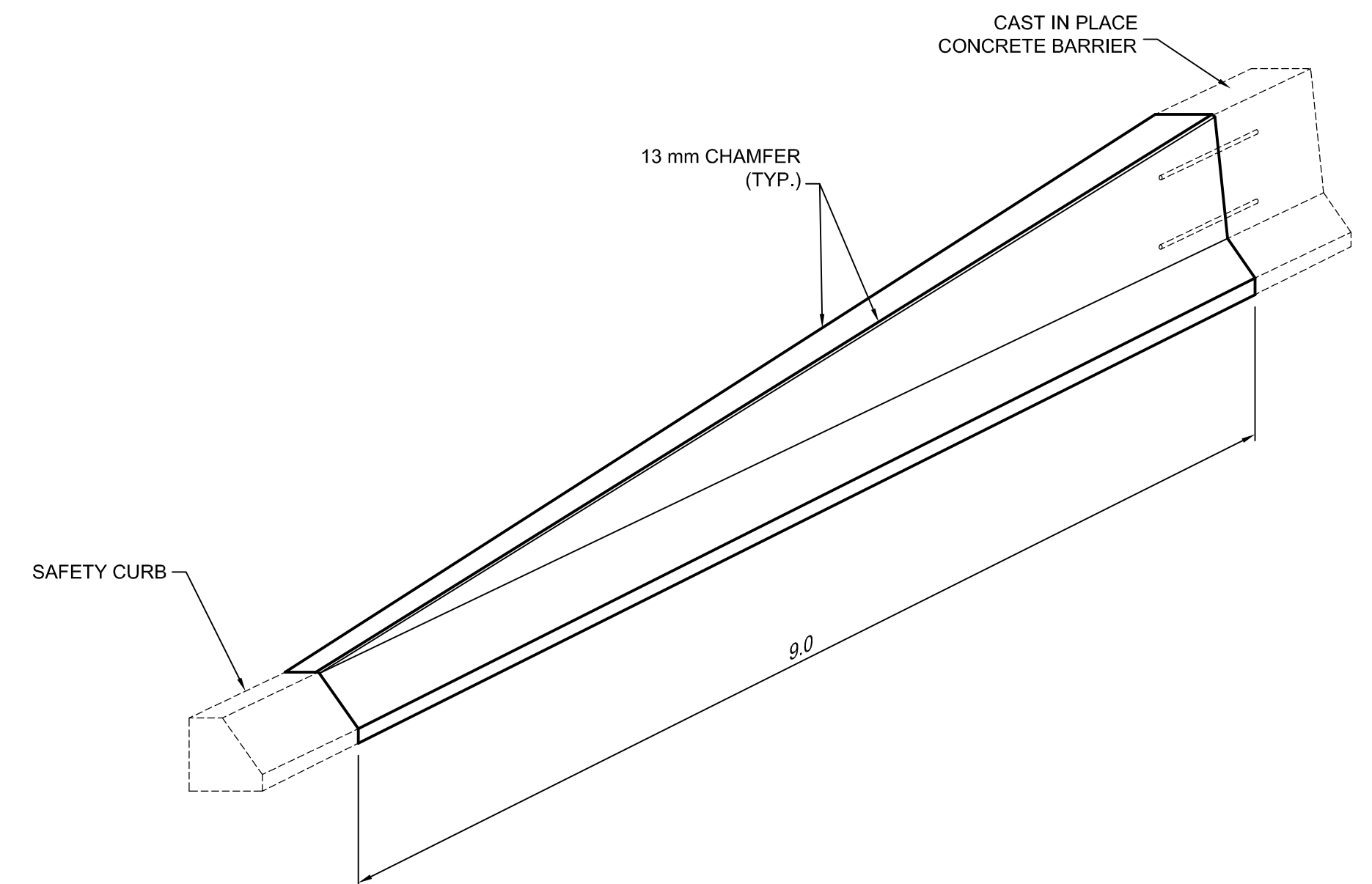


PLAN

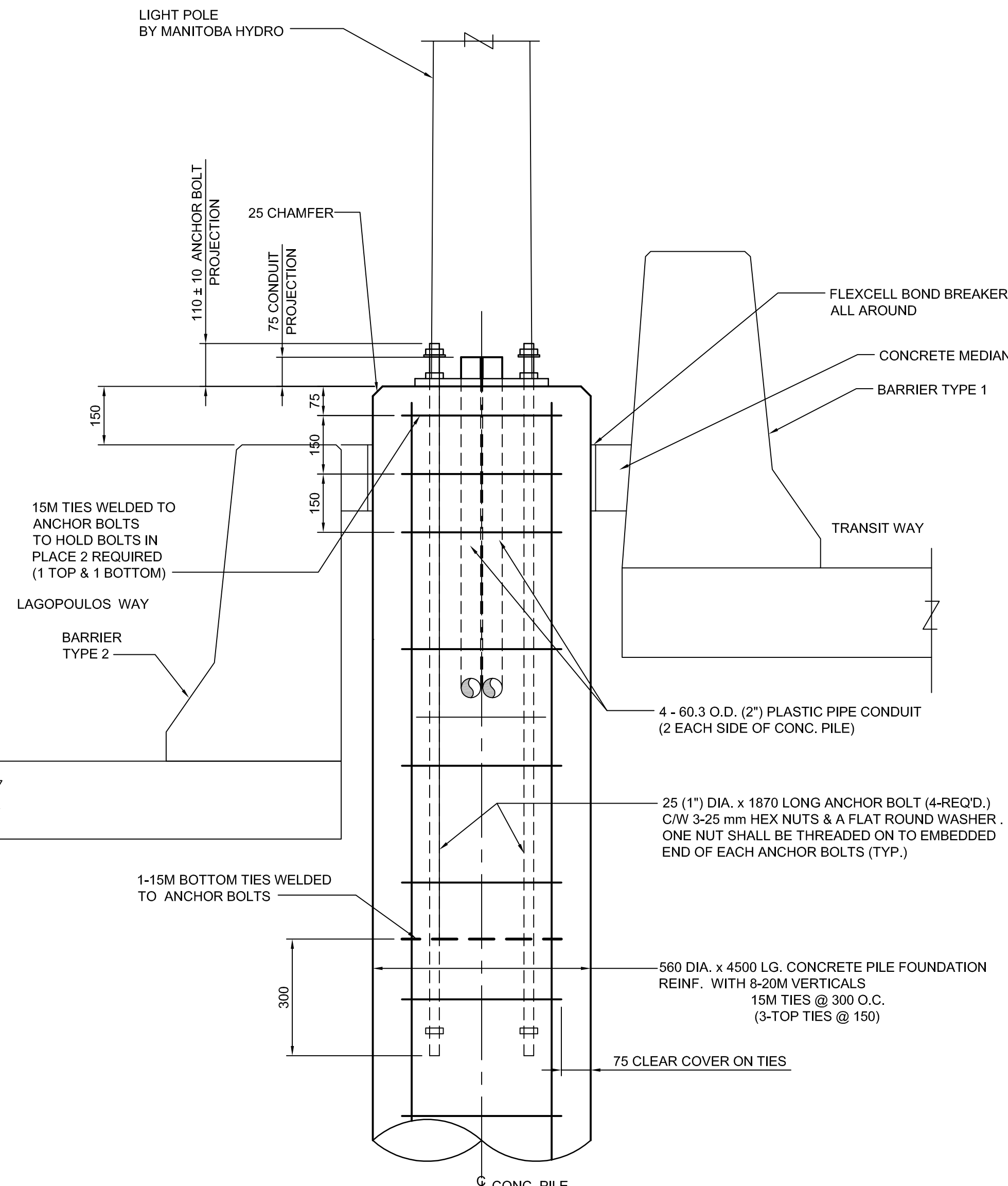
1 CURB TRANSITION DETAIL - TYPE 1
SCALE 1:50



2 BARRIER TRANSITION DETAIL - TYPE 2
SCALE 1:50



3 BARRIER TRANSITION DETAIL - TYPE 3
SCALE 1:50



ELEVATION

4 LIGHT STANDARD BASE
SCALE 1:10

GENERAL NOTES

- REINFORCING STEEL**
CSA G30.12 GRADE 400
VERTICAL BARS FULL LENGTH OF PILE
- ANCHOR BOLTS**
CSA G40.21 GRADE 300W
4-25 (1") DIA. X 1870 LONG
EACH BOLT C/W 3 NUTS & 1 WASHER
300 LONG THREAD AT EACH END.
HOT DIP GALVANIZED FULL LENGTH
BCD = BOLT CIRCLE DIAMETER TO CENTRE OF BOLT GROUP
- ANCHOR BOLTS SHALL BE ALIGNED WITH A TEMPORARY STEEL TEMPLATE. PLACEMENT OF ANCHOR BOLTS AND CONCRETE WITHOUT THE TEMPLATE WILL NOT BE PERMITTED.
- TOP OF PILE SHALL BE FORMED WITH A TUBULAR FORM (SONOTUBE) AS FOLLOWS:
(a) BORED PILES - MIN. 500 mm BELOW FINAL GRADE
(b) 'HYDRO-JET EXCAVATED' PILES - MIN. 1000 mm BELOW FINAL GRADE
- CONCRETE MIX DESIGN**
PROPORTIONING OF FINE AGGREGATE, COARSE AGGREGATE, CEMENT, WATER, AND AIR ENTRAINING AGENT SHALL BE SUCH AS YIELD CONCRETE HAVING THE REQUIRED STRENGTH AND WORKABILITY AS FOLLOWS:
i) MINIMUM COMPRESSIVE STRENGTH AT 28 DAYS = 35 MPa
ii) MAXIMUM WATER/CEMENT RATIO = 0.45
iii) MINIMUM CEMENT CONTENT = 340 kg/m³
iv) SLUMP = 80 mm ± 30 mm
v) AGGREGATE: 20 mm NOMINAL
vi) AIR CONTENT: 5.0 TO 8.0 PERCENT
vii) CEMENT - TYPE HS, HIGH SULFATE-RESISTANT.
- LIGHT STANDARD POLES SUPPLY & INSTALLATION BY MANITOBA HYDRO.
- TYPICAL PILE INSTALLATION LOCATION AS SHOWN ON DRAWINGS. CONTRACT ADMINISTRATOR MAY MODIFY DEPENDING ON SITE APPURTENANCES.



LOCATION UNDERGROUND	APPROVED STRUCTURES	B.M. 654265 (633392.694, 5525026.192) ELEV. 232.518	DESIGNED BY RTP/NBG		ENGINEER'S SEAL PROVINCE OF MANITOBA ORIGINAL SIGNED BY S.S. RIHAL 04-29-09 REGISTERED PROFESSIONAL ENGINEER		THE CITY OF WINNIPEG TRANSIT DEPARTMENT	CITY DRAWING NUMBER P-3299-45
SUPV. U/G STRUCTURES COMMITTEE	DATE		DRAWN BY TJH/NBG		RELEASED FOR CONSTRUCTION ORIGINAL SIGNED BY RANDY FINGAS		CONSULTANT PROJECT NO. 088813	SOUTHWEST RAPID TRANSIT CORRIDOR - STAGE 1 TRANSITWAY CONSTRUCTION, DONALD/HARKNESS RECONSTRUCTION & ASSOCIATED WORKS
NOTE: LOCATION OF UNDERGROUND STRUCTURES AS SHOWN ARE BASED ON THE BEST INFORMATION AVAILABLE. BUT NO GUARANTEE IS GIVEN THAT ALL EXISTING UTILITIES ARE SHOWN OR THAT THE GIVEN LOCATIONS ARE EXACT. CONFIRMATION OF EXISTENCE AND EXACT LOCATION OF ALL SERVICES MUST BE OBTAINED FROM THE INDIVIDUAL UTILITIES BEFORE PROCEEDING WITH CONSTRUCTION.			CHECKED BY ORIGINAL SIGNED BY TARAN J. PETERS		HOR. SCALE AS NOTED		CONCRETE BARRIER & CURB TRANSITION DETAILS	CONSULTANT DRAWING NUMBER C3-C3027-T
			APPROVED BY ORIGINAL SIGNED BY DAVE P. KRAHN		VERTICAL			
			2 ISSUED FOR TENDER 04/29/09 TJP					
			1 SUBMITTED FOR 95% REVIEW 02/13/09 TJP					
			NO. REVISIONS	DATE	DATE	DATE		