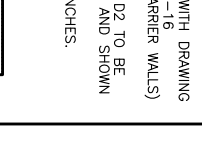
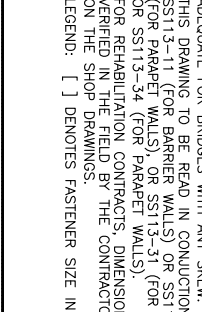
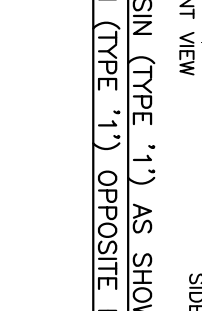
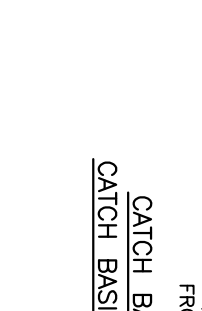
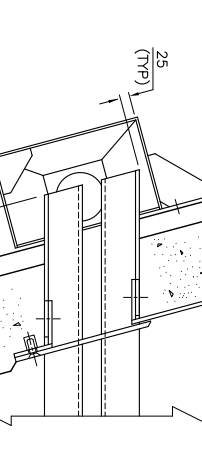
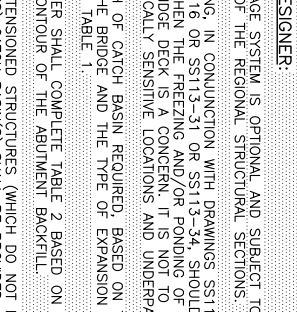
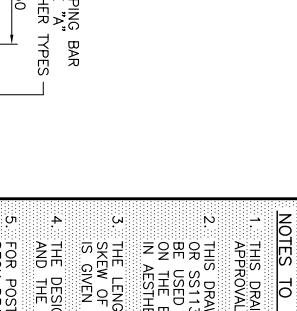
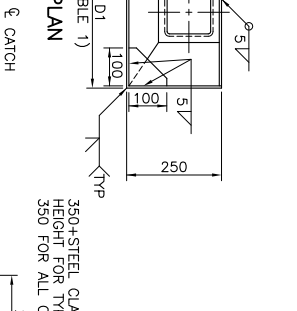
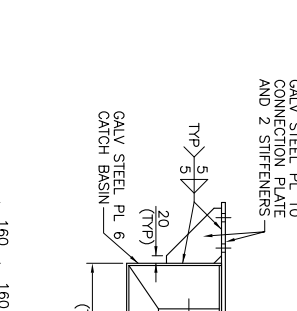
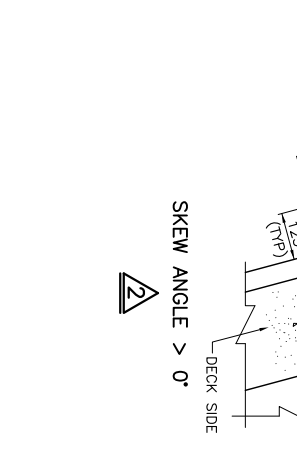


**TABLE 1**

SKIEW ANGLE	LENGTH OF CATCH BASIN, D1 (mm)	FOR STRIP SEAL	FOR SLIDING PLATE
0° TO 15°	400	450	
15° TO 30°	500	550	
30° TO 45°	600	650	
>45°	700	750	

**TABLE 2**

CATCH BASIN AND DOWNPIPE		D1 (mm)	D2 (mm)
LOCATION			



**METRIC**  
 DIMENSIONS ARE IN METRES  
 AND/OR MILLIMETRES  
 UNLESS OTHERWISE SHOWN

CONT No	WP No	SHEET
EXPANSION JOINT DRAINAGE SYSTEM CATCH BASIN AND DOWNPIPE - DETAILS		

- NOTES:**
- PIPE SHALL BE IN ACCORDANCE WITH ASTM A33 GRADE B.
  - HSS SHALL BE GRADE 350M, STEEL PLATE GRADE 350M MAY BE USED AS AN ALTERNATIVE TO HSS, PROVIDED THAT SECTIONS ARE FABRICATED USING FULL PENETRATION WELDS.
  - STEEL SHALL BE GRADE 300M UNLESS NOTED OTHERWISE.
  - THREADED STUDS SHALL BE IN ACCORDANCE WITH ASTM SPECIFICATION A109 AND CSA W59-13, USING FUSION WELD OR SHIELDED METAL ARC WELDING PROCESS.
  - ALL COMPONENTS, INCLUDING ALL CONNECTORS, SHALL BE HOT DIP GALVANIZED AFTER FABRICATION.
  - CATCH BASIN AND DOWNPIPE SHALL BE CONNECTED TO CONCRETE USING ADHESIVE ANCHORS. THEY SHALL BE EQUIVALENT TO ASTM A325M, SIZE M16, WITH A MINIMUM EMBEDMENT LENGTH OF 100mm.
  - ADHESIVE ANCHOR INSTALLATION TO BE DONE ACCORDING TO MANUFACTURER'S RECOMMENDATIONS.
  - DETAILS OF CATCH BASIN ARE APPROPRIATE AND THE SIZE ADEQUATE FOR BRIDGES WITH ANY SKEW.
  - THIS DRAWING TO BE READ IN CONJUNCTION WITH DRAWING SS113-11 (FOR BARRIER WALLS) OR SS113-16 (FOR PARAPET WALLS) OR SS113-31 (FOR BARRIER WALLS) OR SS113-34 (FOR PARAPET WALLS).
  - FOR REHABILITATION CONTRACTS, DIMENSION D2 TO BE VERIFIED IN THE FIELD BY THE CONTRACTOR AND SHOWN ON THE SHOP DRAWINGS.
  - LEGEND: [ ] DENOTES FASTENER SIZE IN INCHES.

- NOTES TO DESIGNER:**
- THIS DRAINAGE SYSTEM IS OPTIONAL AND SUBJECT TO THE APPROVAL OF THE REGIONAL STRUCTURAL SECTIONS.
  - THIS DRAWING, IN CONJUNCTION WITH DRAWINGS SS113-11 OR SS113-16 OR SS113-31 OR SS113-34, SHOULD ONLY BE USED WHEN THE FREEZING AND/OR PONDING OF WATER ON THE BRIDGE DECK IS A CONCERN. IT IS NOT TO BE USED IN AESTHETICALLY SENSITIVE LOCATIONS AND UNDERPASSSES.
  - THE LENGTH OF CATCH BASIN REQUIRED, BASED ON THE SKEW ON THE BRIDGE AND THE TYPE OF EXPANSION JOINT, IS GIVEN IN TABLE 1.
  - THE DESIGNER SHALL COMPLETE TABLE 2 BASED ON TABLE 1 AND THE CONTOUR OF THE ABUTMENT BACKFILL.
  - FOR POST-TENSIONED STRUCTURES (WHICH DO NOT HAVE DECK DRAINS) CATCH BASIN(S) SHALL BE PROVIDED AT THE END(S) OF APPROACH SLABS TO RECEIVE WATER WHICH THE EXPANSION JOINT DRAINAGE SYSTEM CANNOT CONNECT.
  - THE NOTES TO DESIGNER SHALL BE DELETED FROM THIS DRAWING PRIOR TO ISSUING OF CONTRACT.

STANDARD DRAWING  
 JULY 2014  
**SS113-14**  
 EXPANSION JOINT DRAINAGE SYSTEM  
 CATCH BASIN AND DOWNPIPE - DETAILS

REVISIONS	DESIGN	CHK	CODE	DESCRIPTION	DATE
			CHBDC-00	LOAD	

REFER TO 1.1.8 IN THE STRUCTURAL MANUAL FOR PROFESSIONAL ENGINEER STAMPING REQUIREMENTS.  
 DRAWING NOT TO BE SCALED  
 100mm ON ORIGINAL DRAWING