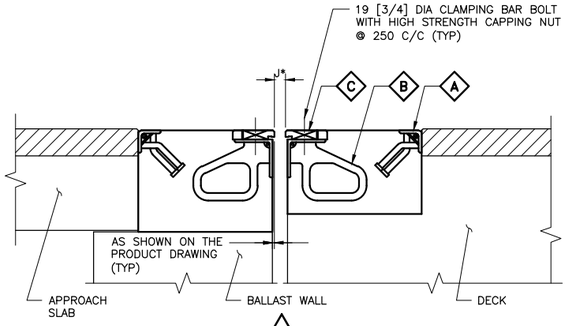
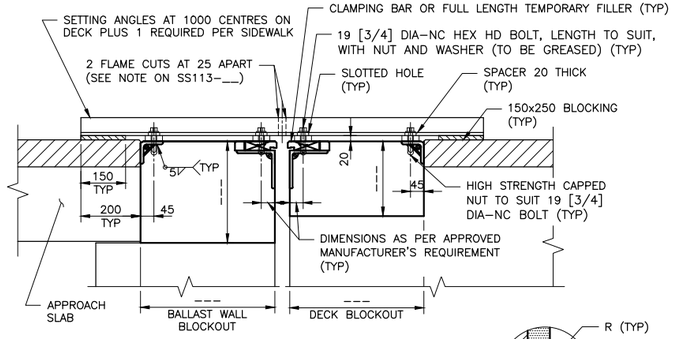
MINISTRY OF TRANSPORTATION, ONTARIO ANSI-D 2017-08



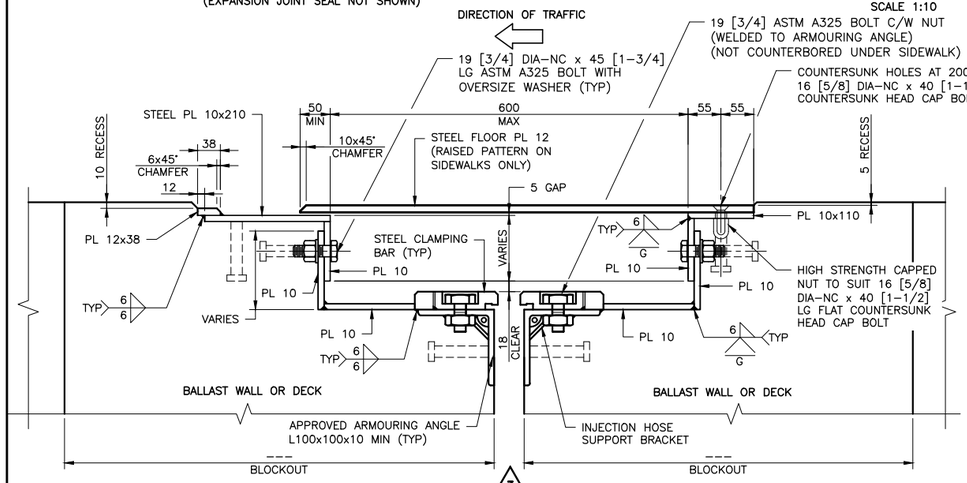
2

(EXPANSION JOINT SEAL NOT SHOWN)



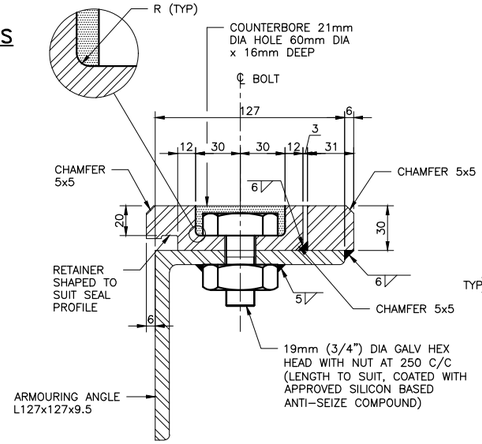
SETTING DEVICE AND BLOCKOUTS

SCALE 1:10



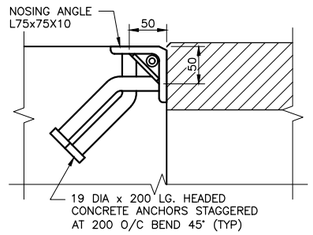
3

(STOP BARS AND RETAINER PLATES NOT SHOWN FOR CLARITY)



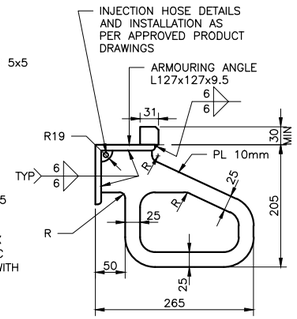
C STEEL CLAMPING BAR DETAIL

(TYP)



A DETAIL

SCALE 1:4



B DETAIL

SCALE 1:5

METRIC

DIMENSIONS ARE IN METRES AND/OR MILLIMETRES UNLESS OTHERWISE SHOWN

DRAWING NOT TO BE SCALED

100mm ON ORIGINAL DRAWING

Ontario Ministry of Transportation

CONT

WP

SHEET

STRIP SEAL EXPANSION JOINT – TYPE "A" DETAILS

NOTES:

1. STEEL CLAMPING BAR SEGMENTS SHALL BE 1.3m TO 2.0m LONG. FOR STAGED EXPANSION JOINT CONSTRUCTION, STEEL CLAMPING BAR SHALL TERMINATE A MINIMUM OF 100mm FROM EXPOSED END OF STEEL ARMOURING. GAP BETWEEN ADJACENT CLAMPING BARS SHALL NOT EXCEED 3mm.
2. ALL CLAMPING BARS SHALL PREFERABLY BE ONE PIECE THROUGH ANY CHANGE IN DIRECTION, BUT AT CURB AND CURB–TO–SIDEWALK SLIDER PLATE THEY MAY BE OF MORE THAN ONE PIECE. EACH SUCH PIECE SHALL HAVE A MINIMUM OF 2 CLAMPING BOLTS.
3. FOR DETAILS OF REINFORCING IN EXPANSION JOINT BLOCKOUT, SEE DECK AND ABUTMENT REINFORCING DRAWINGS.
4. HEADED CONCRETE ANCHORS IN NOSING ANGLES SHALL BE LOCATED WITHIN 75mm OF EITHER SIDE OF FIELD SPLICES.
5. PROTECT INJECTION HOSE AND FITTINGS ADJACENT TO FIELD SPLICE DURING WELDING AND REMOVE PROTECTION PRIOR TO PLACING OF CONCRETE IN BLOCKOUT.
6. THIS DRAWING TO BE READ IN CONJUNCTION WITH DRAWING SS113–___, AND MTOD 3950.2000.
7. LEGEND:
   [ ] – DENOTES FASTENER SIZE IN INCHES.

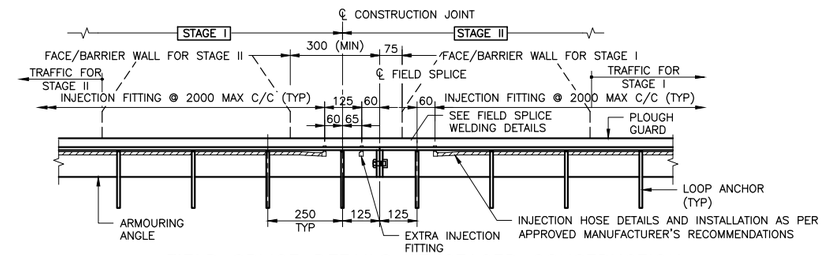
TABLE OF DESIGN REQUIREMENTS (TO BE FULLY COMPLETED BY DESIGNER)

EXP. JOINT LOCATION	MTO GAP ** RATING (mm)		DESIGN *** MOVEMENT	* "J" AT INSTALLATION TEMPERATURE (C) (mm)							
	MIN	MAX		–5°	0°	5°	10°	15°	20°	25°	30°

* DIMENSION 'J' MEASURED PERPENDICULAR TO CENTRELINE EXPANSION JOINT. WHERE MIN. AND MAX. FOR JOINT SUPPLIED DIFFER FROM THOSE SHOWN IN TABLE, 'J' DIMENSIONS SHALL BE REVISED BY CONTRACTOR AND SHOWN ON SHOP DRAWINGS. FOR STAGED CONTRUCTION ON STRUCTURES OTHER THAN POST–TENSIONED, THE CONTRACTOR SHALL USE THE FIRST STAGE OBSERVED 'J' GAP TO INSTALL THE SECOND STAGE.

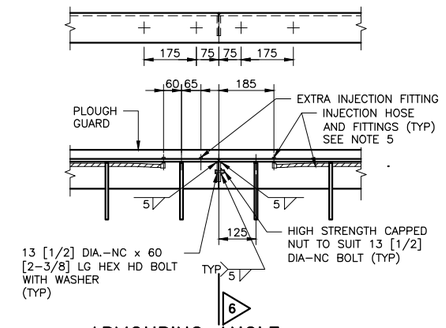
** MTO GAP, MEASURED BETWEEN PROJECTING FACES OF STOP BARS, IS TAKEN FROM DSM 9.40.27, TYPE "C".

*** CALCULATED TOTAL MOVEMENT AT SLS OCCURRING AFTER TIME OF JOINT INSTALLATION. (MEASURED PARALLEL TO CENTRELINE OF STRUCTURE)



FIELD SPLICE DETAILS AT STAGED CONSTRUCTION FOR ARMOURING ANGLE

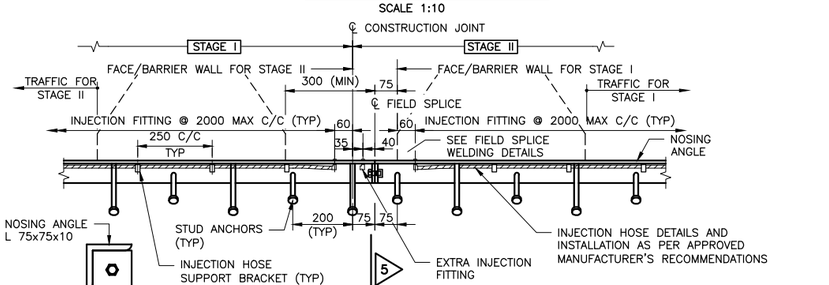
SCALE 1:10



6

ARMOURING ANGLE FIELD SPLICE DETAIL

SCALE 1:10

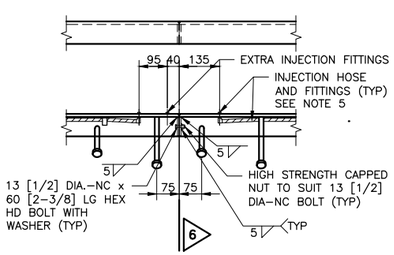


5

N.T.S

FIELD SPLICE DETAILS AT STAGED CONSTRUCTION FOR NOSING ANGLE

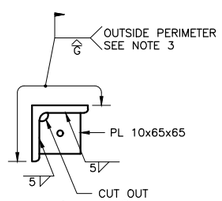
SCALE 1:10



6

NOSING ANGLE FIELD SPLICE DETAIL

SCALE 1:10



6

N.T.S

NOTES TO DESIGNER:

EXPANSION JOINT BLOCKOUT DIMENSIONS, (mm) SHALL BE AS FOLLOWS:

LOCATION	TYPE	BLOCKOUT	BALLAST WALL SIDE	DECK SIDE
BARRIER/PARAPET WALL	NEW	WIDTH	500	500
		DEPTH	335	230
	REHAB.	WIDTH	300 MIN.	300 MIN.
		DEPTH	250 MIN.	230
TRAFFIC LANES	NEW	WIDTH	500	500
		DEPTH	335	250
	REHAB.	WIDTH	300 MIN.	300 MIN.
		DEPTH	250 MIN.	230
BARRIER/PARAPET WALL WITH SIDEWALK	NEW & REHAB.	WIDTH	550	650
		DEPTH	VARIES	VARIES

2. USING THE ABOVE TABLE, THE DESIGNER SHALL FILL IN THE BLOCKOUT DIMENSIONS ON THIS DRAWING. THESE DIMENSIONS SHALL ALSO BE SHOWN ON THE CONTRACT DRAWINGS FOR DECK DETAILS AND ABUTMENT DETAILS.
3. THE 'NOTES TO DESIGNER' SHALL BE DELETED FROM THIS DRAWING PRIOR TO ISSUING OF THE CONTRACT.

STANDARD DRAWING APRIL 2022

SS113–12

STRIP SEAL EXPANSION JOINT – TYPE "A" DETAILS

REVISIONS

DATE	BY	DESCRIPTION

DESIGN	CHK	CODE	–	LOAD	–	DATE
DRAWN	CHK	SITE				DWG

FILE NAME: C:\Users\WongMo2\OneDrive - Government of Ontario\Desktop\Chris\SS113\SS113-12\SS113-12-M.dwg
MODIFIED: 2022-04-20 11:14