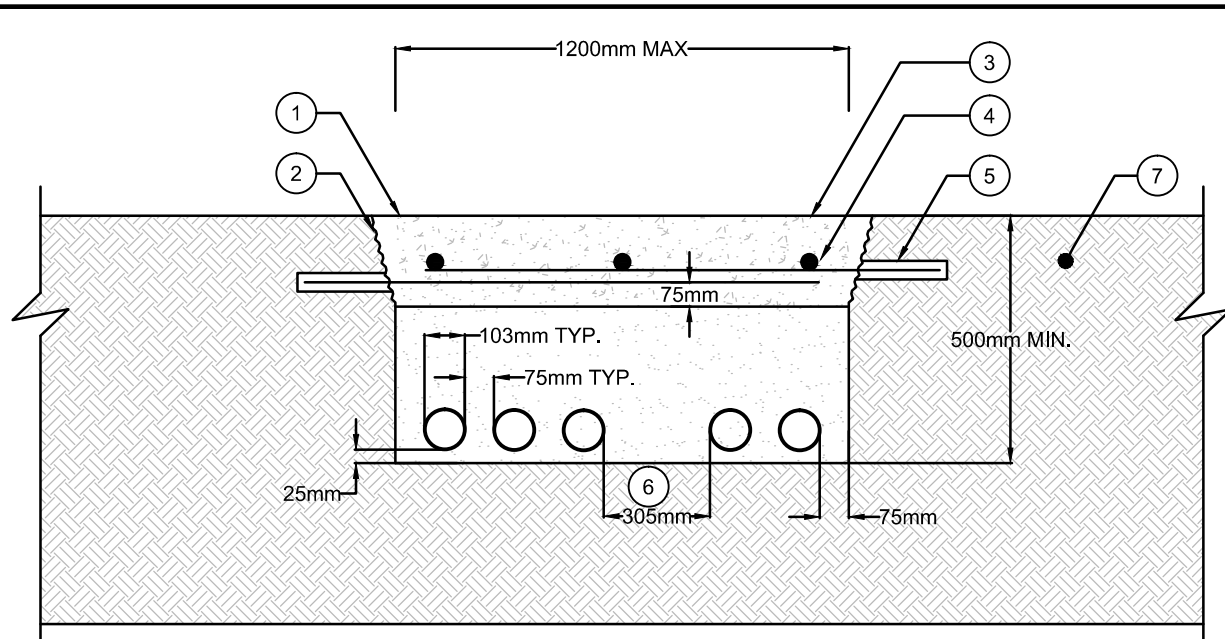


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2016/10/14 9:21 AM By: Grabowski, Alex



**KEY NOTES:**

- ① SAW-CUT/CHIP-OUT 1200x500dp TRENCH IN EXISTING BULK CONCRETE. REMOVE AND DISPOSE OF WASTE MATERIAL. PLACE NEW ELECTRICAL & COMMUNICATIONS CONDUITS IN A FREE-DRAINING WELL GRADED SAND BED. COMPACT SAND TO 98% PROCTOR DENSITY.
- ② CLEAN AND INTENTIONALLY ROUGHEN CONCRETE (5mm AMPLITUDE). 2 VERTICAL TO 1 HORIZONTAL, PRIOR TO PLACING NEW CONCRETE.
- ③ 250mm CONCRETE LID OVER TRENCH.
- ④ 3-15M CONT.
- ⑤ 15M @300mm O.C. DRILL AND DOWEL TO EXISTING CONCRETE WITH APPROVED ADHESIVE. MIN. 200mm EMBED.
- ⑥ MAINTAIN MIN. 305mm DISTANCE BETWEEN POWER & COMM. CONDUITS.
- ⑦ EXISTING CONCRETE SURFACE.

**NOTES:**

- 1. SCAN CONCRETE PRIOR TO CUTTING AND REPORT FINDINGS TO DEPARTMENTAL REPRESENTATIVE PRIOR TO PROCEEDING.
- 2. TRENCH TO BE REVIEWED BY DEPARTMENTAL REPRESENTATIVE PRIOR TO PLACING CONDUIT AND POURING FINAL CONCRETE COVER.
- 3. TRENCH LID SLAB DESIGNED FOR AXIAL LOAD OF 54 KN CORRESPONDING TO A MAX 11,500kg VEHICLE.

**2 CONCRETE TRENCH DETAIL (INDICATIVE)**  
E102 SCALE: N.T.S.

**CAST-IN-PLACE REINFORCED CONCRETE**

- 1 CONCRETE MATERIALS, QUALITY, MIXING, PLACING, FORMWORK AND OTHER CONSTRUCTION PRACTICES TO CONFORM TO CSA-A23.1.
- 2 SUPPLY CONTROLLED CONCRETE IN ACCORDANCE WITH CSA-A23.1 WITH PROPERTIES NOTED IN CONTROLLED CONCRETE TABLE.
- 3 ADD MIXTURES NEED TO BE REVIEWED/ APPROVED BY DEPARTMENTAL REPRESENTATIVE.
- 4 FIELD AND LABORATORY TESTING OF CONCRETE TO BE COMPLETED BY A THIRD PARTY TESTING AND INSPECTION AGENCY APPROVED BY AND RESPONSIBLE TO THE DEPARTMENTAL REPRESENTATIVE. TESTING AGENCY SHALL BE CERTIFIED TO CSA-A283. ONE SET OF 3 CYLINDERS SHALL BE MADE FOR EACH DAY'S POUR. COPIES OF TEST RESULTS SHALL BE SENT TO THE DEPARTMENTAL REPRESENTATIVE AND CONTRACTOR.
- 5 COLD WEATHER REQUIREMENTS FOR POURING CONCRETE AS DEFINED BY CAN/CSA-A23.1, CLAUSE 7.4.2.5 MUST BE MET. CONTRACTOR SHALL ENSURE THAT ALL PRECAUTIONS ARE TAKEN TO ADEQUATELY CURE CONCRETE IN COLD WEATHER INCLUDING BUT NOT LIMITED TO: HEATING THE MIXING WATER, ADDING ACCELERATOR TO THE CONCRETE MIX, COVERING THE CONCRETE AND HEATING THE CONCRETE. WHEN THERE IS A PROBABILITY OF THE TEMPERATURE FALLING BELOW 5°C, AN ADDITIONAL CONCRETE CYLINDER (4 TOTAL) SHALL BE MADE. A MINIMUM OF 2 - 28 DAY SAMPLES SHALL BE LEFT ON SITE FOR 28 DAYS MINIMUM AND STORED UNDER SIMILAR TEMPERATURE AND HUMIDITY CONDITIONS AS THE IN-PLACE CONCRETE.
- 6 HOT WEATHER REQUIREMENTS FOR POURING CONCRETE AS DEFINED BY CAN/CSA-A23.1, CLAUSE 7.4.1.8.1 MUST BE MET. WHEN THERE IS A PROBABILITY OF THE TEMPERATURE RISING ABOVE 27°C, AN ADDITIONAL CONCRETE CYLINDER (4 TOTAL) SHALL BE MADE. A MINIMUM OF 2 - 28 DAY SAMPLES SHALL BE LEFT ON SITE FOR 28 DAYS MINIMUM AND STORED UNDER SIMILAR TEMPERATURE AND HUMIDITY CONDITIONS AS THE IN-PLACE CONCRETE.

**CONCRETE REINFORCEMENT**

- 1 REINFORCEMENT STEEL TO CONFORM TO CSA-G30.18 GRADE 400.
- 2 REINFORCEMENT SPLICES - MIN 750mm FOR 15M BARS. MIN 1000mm FOR 20M BARS.
- 3 OPENINGS IN WALLS AND SLABS - PROVIDE TWO 15M BARS EACH SIDE, ONE EACH FACE, EXTENDING 600mm PAST THE OPENINGS, PLUS TWO 15M DIAGONAL BARS AT EACH CORNER, EACH FACE 1200mm LONG UNLESS NOTED OTHERWISE.
- 4 DO NOT CUT REINFORCEMENT AT OPENINGS WHERE IT CAN BE SPREAD CONTINUOUS AROUND OPENING.
- 5 ALL REINFORCEMENT TO BE SUPPORTED AT 900mm MAXIMUM SPACING.

CLEAR CONCRETE COVER TO REINFORCEMENT			
TO BE READ IN CONJUNCTION WITH CONCRETE REINFORCEMENT DESIGN NOTES			
EXPOSURE CONDITION	EXPOSURE CLASS		
	N	F-1, F-2, S-1, S-2, S-3	C-XL, C-1, C-2, C-3, A-1, A-2, A-3
CAST AGAINST FORMWORK OR EXPOSED SURFACE OF SLABS	-	40 mm	60 mm
CAST AGAINST SOIL	-	75 mm	75 mm

CONTROLLED CONCRETE						
TO BE READ IN CONJUNCTION WITH CAST-IN-PLACE REINFORCED CONCRETE DESIGN NOTES						
CONCRETE ELEMENT	CLASS OF EXPOSURE	MINIMUM COMPRESSIVE STRENGTH AT 28 DAYS (MPa)	MAXIMUM AGGREGATE SIZE (mm)	AIR CONTENT %	MAX W/C RATIO	CEMENT TYPE
TRENCH LID SLAB	C-1	35	20	5 - 8	0.40	GU

ORIGINAL SHEET - ANSI B

October 2016  
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Legend

Notes

Client/Project

DEPT. OF FISHERIES AND OCEANS  
IOS TIMBER AND CONCRETE FLOATS  
A, B, C & D

Figure No.

1.0

Title

ELECTRICAL ADDENDUM #01  
ADD-E01-SKE01

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