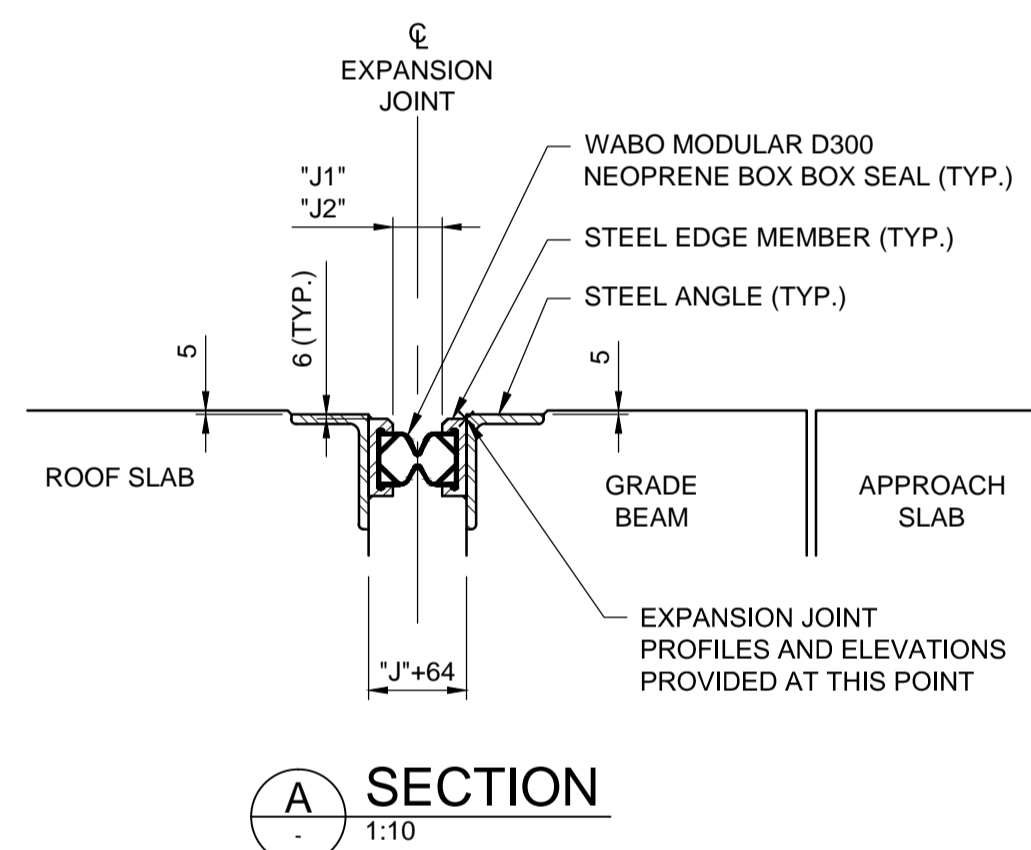
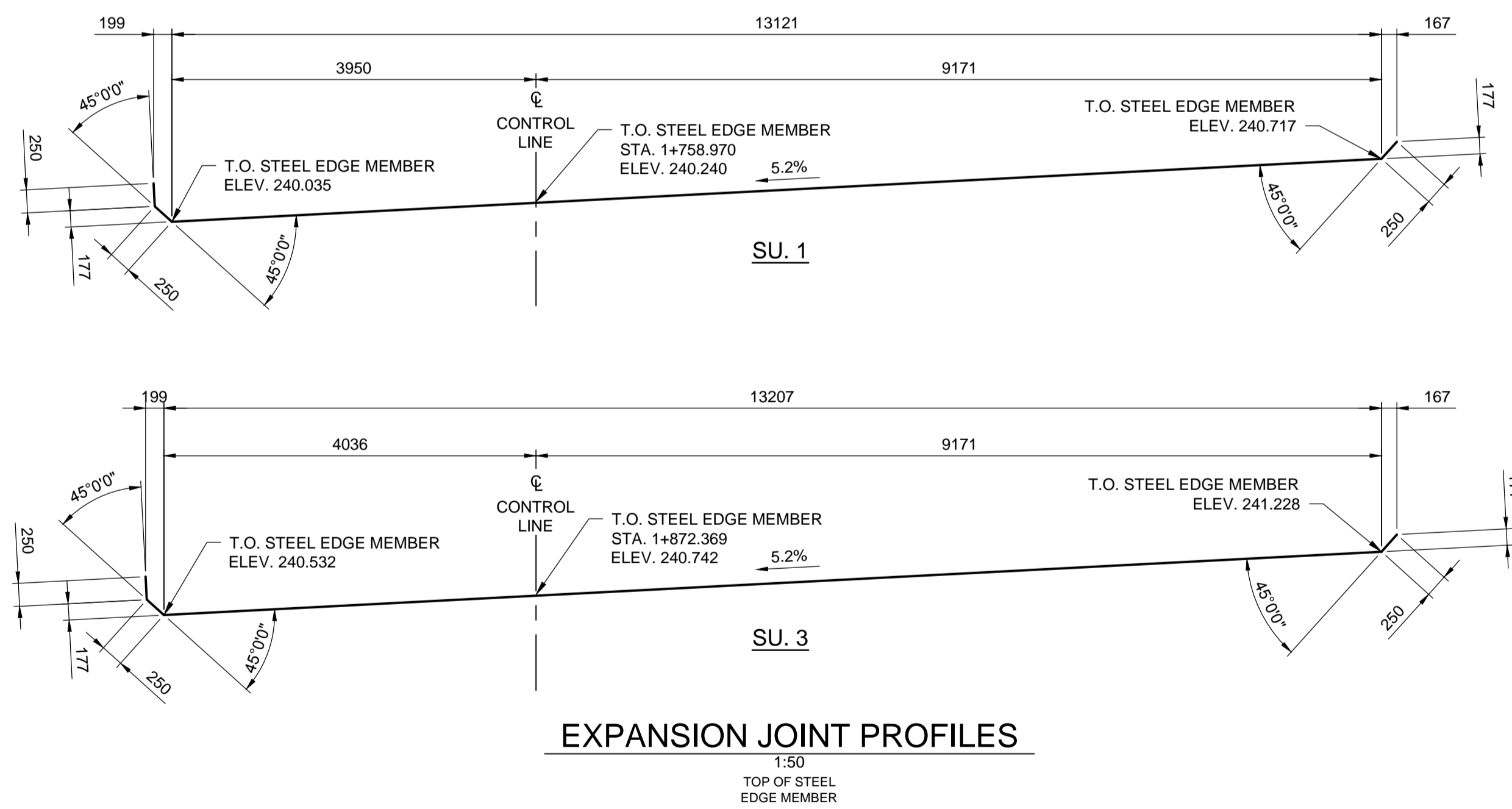


PLAN
1:175



SECTION A
1:110



EXPANSION JOINT PROFILES
1:50
TOP OF STEEL EDGE MEMBER

BILL OF PREFORMED JOINT SEALS FOR EXPANSION JOINTS			
LOCATION	QTY.	DESCRIPTION	LENGTH
SU. 1	1	WABO MODULAR D300 NEOPRENE BOX SEAL	13.890m
SU. 3	1	WABO MODULAR D300 NEOPRENE BOX SEAL	13.975m

NOTE:
SEE EXPANSION JOINT NOTES FOR INSTALLATION REQUIREMENTS.

TEMPERATURE WIDTH ADJUSTMENT TABLE FOR EXPANSION JOINTS	TEMPERATURE																
	-40	-35	-30	-25	-20	-15	-10	-5	0	5	10	15	20	25	30	35	40
INSTALLATION TEMPERATURE ° C																	
INSTALLATION GAP @ SU.1 ("J1")	16	19	22	24	27	30	33	35	38	41	43	46	49	52	54	57	60
INSTALLATION GAP @ SU.3 ("J2")	9	13	16	20	24	27	31	34	38	42	45	49	52	56	60	63	67

NOTE:
ADJUST EXPANSION JOINTS ACCORDING TO TABLE ABOVE. SEE EXPANSION JOINT NOTES FOR INSTALLATION REQUIREMENTS.

APEGM
Certificate of Authorization
Dillon Consulting Limited (MB)
No. 1789 Date: 2013/08/01

UNDERGROUND STRUCTURES		B.M. ELEV.	DESIGNED BY	RE
SUPV. U/G STRUCTURES COMMITTEE	DATE		DRAWN BY	CGC
			CHECKED BY	SSR
			APPROVED BY	MBL
			HOR. SCALE	AS SHOWN
			VERTICAL	
0	ISSUED FOR TENDER	13/08/08	DATE	2013/08/01
NO.	REVISIONS	DATE	BY	DATE

EXPANSION JOINT NOTES:

- SHOP DRAWINGS SHALL BE SUBMITTED FOR REVIEW AT LEAST FOURTEEN (14) DAYS PRIOR TO FABRICATION. THE EXPANSION JOINT ASSEMBLIES SHALL BE DESIGNED TO CARRY CHBDC CL-625 TRUCK AND LANE LIVE LOADING.
- STEEL SHALL BE IN ACCORDANCE WITH CSA STANDARD G40.21M GRADE 300W.
- WELDING SHALL BE OF LOW HYDROGEN CLASSIFICATION. MANUAL ELECTRODES SHALL BE E7016 OR E7018. ALL WELDING SHALL BE IN ACCORDANCE WITH CSA STANDARD W59.
- ALL STEEL COMPONENTS SURFACES, INCLUDING COVER PLATES SHALL BE HOT DIP GALVANIZED IN ACCORDANCE WITH THE LATEST EDITION OF ASTM A123 TO A MINIMUM NET RETENTION OF 610 gm/m² AFTER FABRICATION.
- JOINT ASSEMBLY SHALL BE FABRICATED COMPLETELY AND PRESET TO DIMENSION "J" FOR 0°C PRIOR TO SHIPMENT.
- EXPANSION JOINT UNITS AND RELATED MATERIALS SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATION.
- THE CONTRACTOR IS REQUIRED TO PROVIDE SUPPORT FOR THE EXPANSION JOINT ASSEMBLIES DURING PLACEMENT OF CONCRETE. ALL SUPPORT SYSTEMS SHALL NOT INTERFERE WITH ANY CONCRETE FINISHING OPERATIONS.
- BLEEDER HOLES SHALL BE DRILLED INTO THE TOP OF THE STEEL EDGE MEMBERS OF THE EXPANSION JOINT, AND INTO THE TOP OF THE CURB COVER PLATES WHERE CONCRETE IS TO BE CAST DIRECTLY AGAINST. FOLLOWING CONCRETING OPERATIONS, THE ENGINEER SHALL INSPECT THESE AREAS BY METHOD OF SOUNDING. ALL VOIDS SHALL BE FILLED WITH AN APPROVED NON-SHRINK GROUT.
- SEALS SHALL BE PREFORMED NEOPRENE RUBBER AS SPECIFIED. EACH SEAL SHALL BE SUPPLIED & INSTALLED IN ONE CONTINUOUS PIECE. NO SPLICE IN THE RUBBER SEAL WILL BE PERMITTED.
- EXPANSION JOINT ASSEMBLY SHALL BE INSTALLED 4 mm BELOW ELEVATION AND GRADE OF ADJACENT BRIDGE DECK EXCEPT WHERE OTHERWISE NOTED.
- ALL CURB COVER PLATES SHALL BE RECESSED 5 mm FROM THE FACE OF THE CONCRETE.
- INSTALLATION TEMPERATURE SHALL BE TAKEN AS THE MEAN SHADE AIR TEMPERATURE UNDER THE BRIDGE 48 HOURS PRIOR TO CASTING THE JOINT INTO THE DECK.
- ALL AREAS OF DAMAGED GALVANIZING SHALL BE REPAIRED BY USING GALVALLOY PROCEDURE AS SPECIFIED.
- THE INSTALLATION SHALL BE APPROVED BY THE CONTRACT ADMINISTRATOR PRIOR TO PLACING REINFORCING BARS OR CONCRETE.
- IMMEDIATELY PRIOR TO PLACING REINFORCING BARS OR CONCRETE, ALL METAL SURFACES WHICH WILL BE IN CONTACT WITH CONCRETE SHALL BE COATED WITH EPOXY ADHESIVE. RATE OF PLACEMENT OF ADHESIVE SHALL BE SUCH THAT THE ADHESIVE DOES NOT DRY OR SET BEFORE CONCRETE IS PLACED AGAINST IT.
- LOOSEN ERECTION BOLTS WITHIN 24 HOURS OF CONCRETING TO ALLOW JOINT MOVEMENT DUE TO TEMPERATURE CHANGE.
- AFTER REMOVAL OF ERECTION ANGLES, BOLT AND BLEEDER HOLES TO BE FILLED WITH AN APPROVED EPOXY GROUT.
- SEAL WELDING OF THE TOP EDGE PLATE MEMBERS TO THE EXPANSION JOINT END PLATES AND ASSOCIATED FIELD GALVANIZING SHALL TAKE PLACE PRIOR TO INSTALLATION OF EXPANSION JOINT SEALS.
- ALL SURFACES IN CONTACT WITH JOINT SEALS SHALL BE CLEANED PRIOR TO INSTALLATIONS OF SEALS.

<p>RELEASED FOR CONSTRUCTION</p>		<p>CONSULTANT PROJECT NUMBER</p> <p>12-6606</p>		<p>THE CITY OF WINNIPEG PUBLIC WORKS DEPARTMENT</p>	
<p>WAVERLEY WEST ARTERIAL ROADS PROJECT (WWARP) PART 3 - CONTRACT 2</p>		<p>ROUTE 90 TO ROUTE 165, OVERPASS (KENASTON BLVD.) AND ASSOCIATED WORKS</p>		<p>CITY DRAWING NUMBER B242-13-36</p>	
<p>EXPANSION JOINT DETAILS 1 OF 3</p>		<p>SHEET 36 OF 128</p>		<p>CONSULTANT DRAWING NUMBER</p>	

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