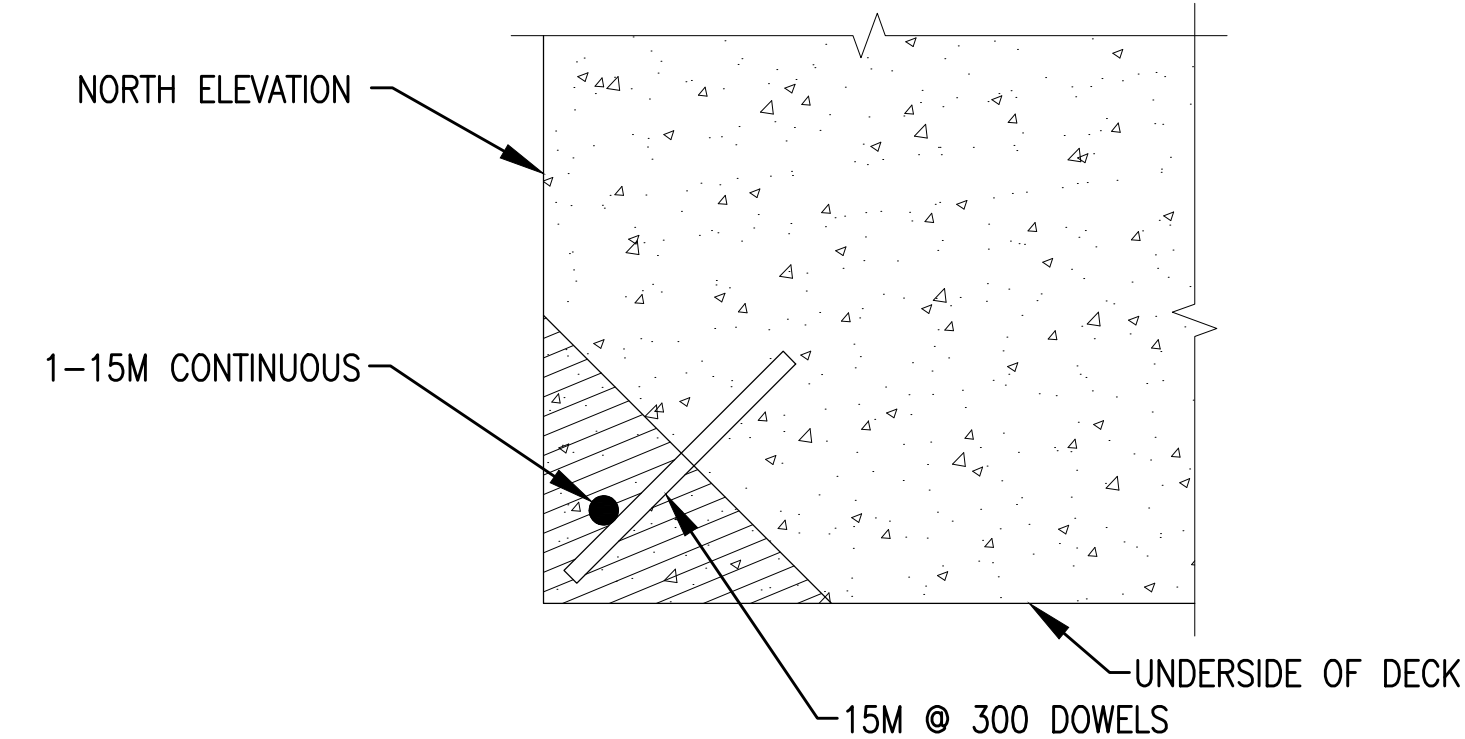




DETAIL D2

STRUCTURAL DATA



PHOTO 1

REPAIR DETERIORATED TOP OF NORTH WALL BY CHIPPING AND REMOVING UNSOUND CONCRETE. (PHOTOS 1, 2, 3 & 3B) SAND BLAST EXPOSED REBAR AND PAINT IT WITH ZINC RICH PAINT. INSTALL 2-15M @ 300MM O.C. DOWELS, STAGGERED, USE HIT-HY 200 EPOXY BY HILTI, PROVIDE 152MM EMBEDMENT AND 2-15M CONT ALONG THE WALL. SEE DETAIL D1(SHEET 1). FORM AND POUR M.T.O. APPROVED CONCRETE MIX AS PER NOTES(SHEET 1). APPROX. 0.50 CUBIC METERS REQUIRED.



PHOTO 2



PHOTO 3



PHOTO 3B



PHOTO 4

REPAIR MORE SEVERE CONSTRUCTION JOINT DETERIORATION BY CHIPPING AND REMOVING DELAMINATED CONCRETE. (PHOTOS 4 & 5) SAND BLAST EXPOSED REBAR AND PAINT IT WITH ZINC RICH PAINT. PATCH WITH GROUT. APPROX. 0.11 CUBIC METERS REQUIRED.



PHOTO 5



PHOTO 6

REPAIR CONCRETE DETERIORATION ON NORTH ELEVATION BY CHIPPING AND REMOVING DELAMINATED CONCRETE.(PHOTO 6) SAND BLAST EXPOSED REBAR AND PAINT IT WITH ZINC RICH PAINT. PATCH WITH GROUT. APPROX. 0.03 CUBIC METERS REQUIRED.



PHOTO 7

REPAIR SEVERE DETERIORATION AT NORTH-WEST CORNER OF WEST ABUTMENT BY CHIPPING AND REMOVING UNSOUND CONCRETE.(PHOTOS 7 & 11) SAND BLAST EXPOSED REBAR AND PAINT IT WITH ZINC RICH PAINT. INSTALL 15M @ 300MM O.C. DOWELS, USE HIT-HY 200 EPOXY BY HILTI, PROVIDE 152MM EMBEDMENT. INSTALL 15M @ 300MM EA. WAY (VERT. AND HORIZ. FASTENED TO THE DOWELS. FORM AND POUR M.T.O. APPROVED CONCRETE MIX AS PER NOTES(SHEET 1). APPROX. 0.50 CUBIC METERS REQUIRED.



PHOTO 8

REPAIR DETERIORATED CONCRETE AT UNDERSIDE OF DECK ON NORTH ELEVATION BY CHIPPING AND REMOVING UNSOUND CONCRETE.(PHOTO 8) SAND BLAST EXPOSED REBAR AND PAINT IT WITH ZINC RICH PAINT. INSTALL 15M @ 300MM O.C. DOWELS, USE HIT-HY 200 EPOXY BY HILTI, PROVIDE 152MM EMBEDMENT AND 1-15M CONT. ALONG THE REPAIR. SEE DETAIL D2 (SHEET 1). FORM AND POUR M.T.O. APPROVED CONCRETE MIX AS PER NOTES(SHEET 1). APPROX. 0.10 CUBIC METERS REQUIRED.



PHOTO 9

REPAIR DETERIORATED CONSTRUCTION JOINT ON NORTH ELEVATION. BY CUTTING A 'V' GROOVE ALONG THE JOINT.(PHOTO 9) APPLY BONDING AGENT SIKATOP 100 AND PATCH WITH 'SIKATOP123 PLUS' MORTAR. APPROX. 0.01 CUBIC METERS REQUIRED.



PHOTO 10

REPAIR DETERIORATED CONCRETE SURFACE BY CHIPPING UNSOUND CONCRETE AND PARING.(PHOTO 10) APPROX. 0.01 CUBIC METERS REQUIRED.



PHOTO 11



PHOTO 12

REPAIR DETERIORATED CONCRETE OF TOP OF SOUTH WALL, EAST END, BY CHIPPING AND REMOVING UNSOUND CONCRETE.(PHOTO 12 & 15) SAND BLAST EXPOSED REBAR AND PAINT IT WITH ZINC RICH PAINT. INSTALL 2-15M @ 300MM O.C. DOWELS, STAGGERED, USE HIT-HY 200 EPOXY BY HILTI, PROVIDE 152MM EMBEDMENT AND 2-15M CONT. ALONG THE WALL. SEE DETAIL D1(SHEET 1). FORM AND POUR M.T.O. APPROVED CONCRETE MIX AS PER NOTES(SHEET 1). APPROX. 0.10 CUBIC METERS REQUIRED.



PHOTO 13

REPAIR CRACKS AT EAST ENDS OF NORTH AND SOUTH ELEVATIONS BY CUTTING A 'V' GROOVE ALONG THE CRACKS.(PHOTO 13) APPLY BONDING AGENT SIKATOP 100 AND PATCH WITH 'SIKATOP123 PLUS' MORTAR. APPROX. 0.002 CUBIC METERS REQUIRED.

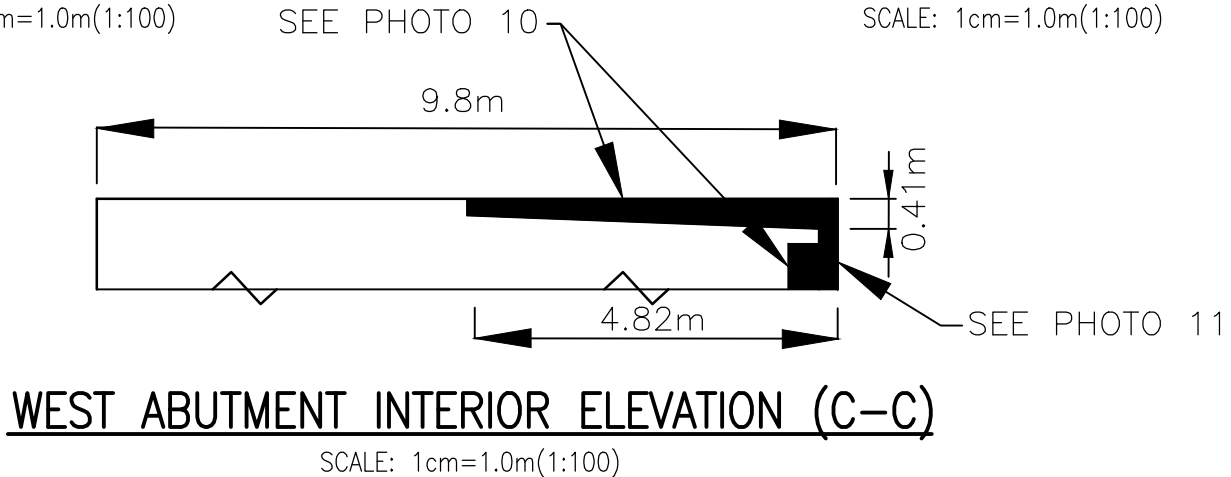
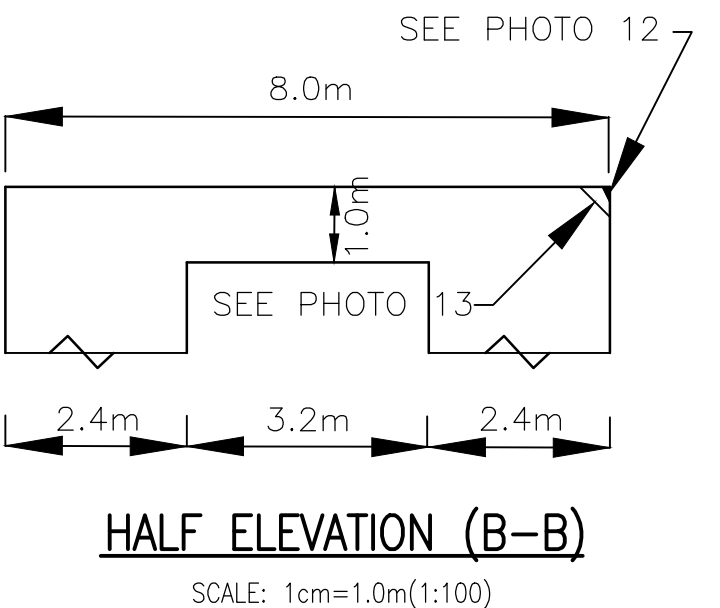
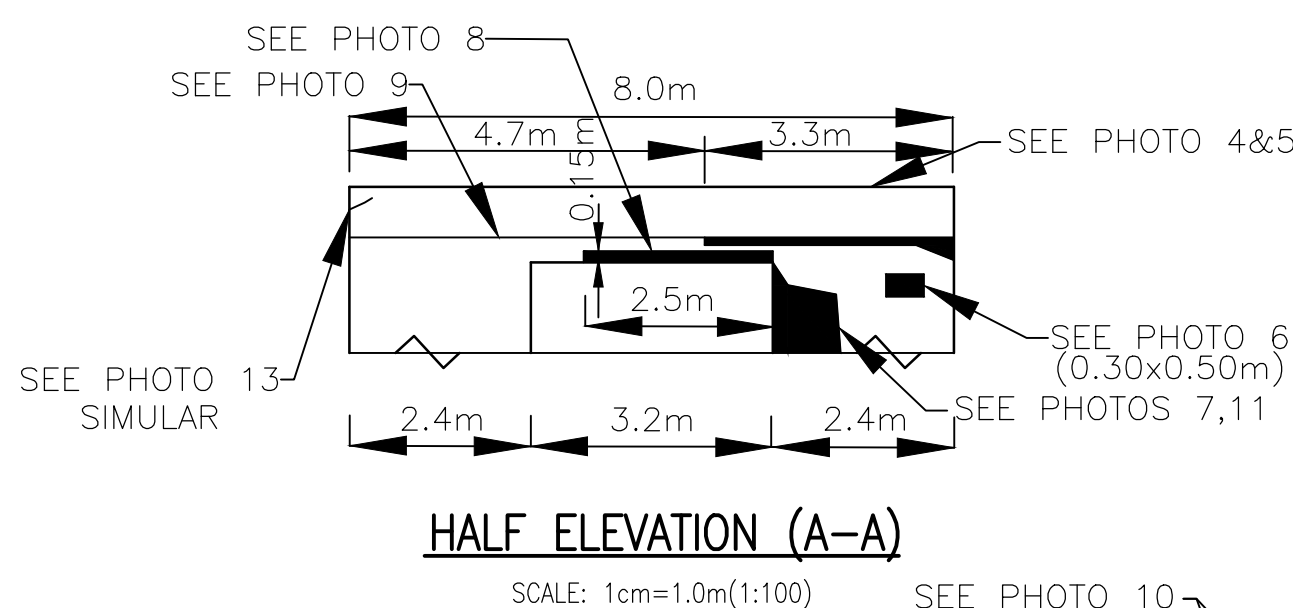
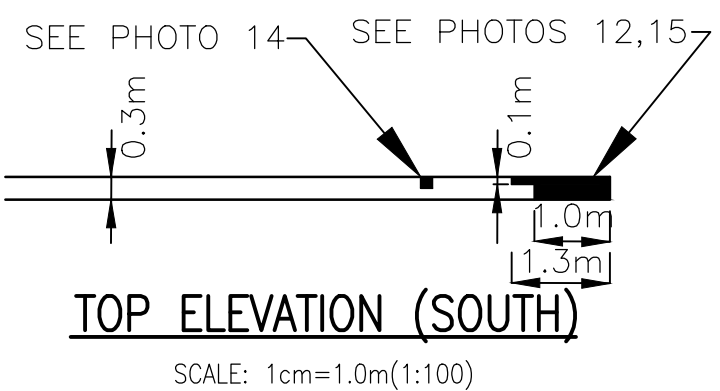
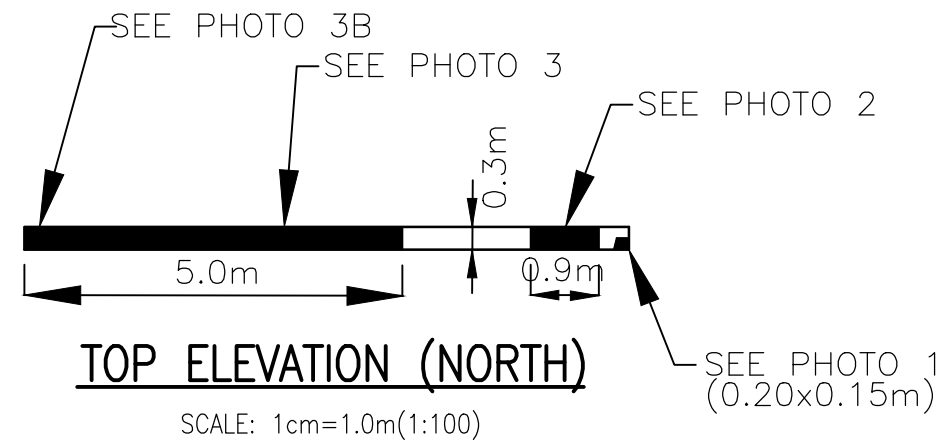
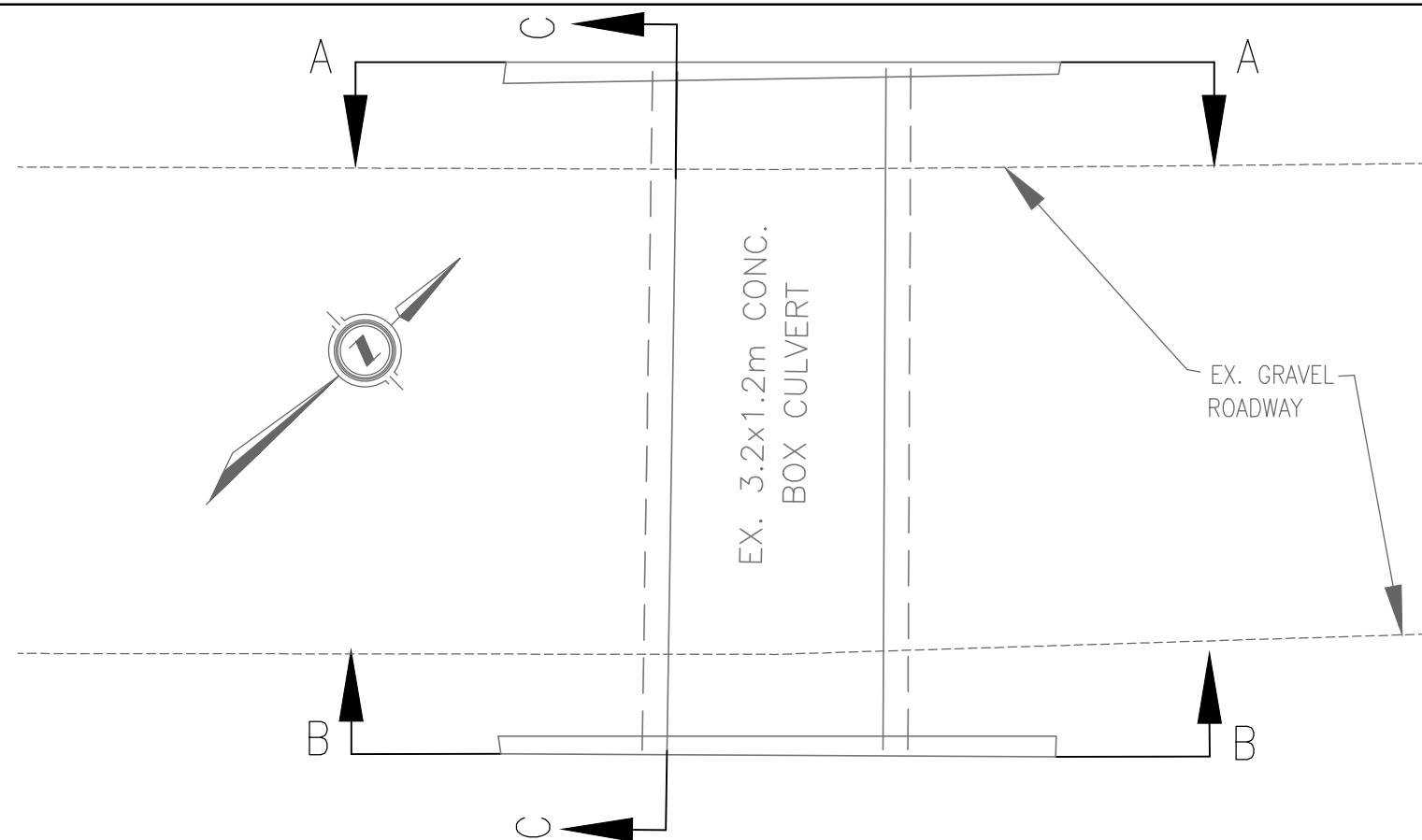


PHOTO 14

REPAIR CONCRETE DETERIORATION ON TOP OF SOUTH WALL BY CHIPPING AND REMOVING DELAMINATED CONCRETE.(PHOTO 14) SAND BLAST EXPOSED REBAR AND PAINT IT WITH ZINC RICH PAINT. PATCH WITH GROUT. APPROX. 0.01 CUBIC METERS REQUIRED.



PHOTO 15



EXISTING SERVICES	DRAWING #, SOURCE	DATE	AS CONSTRUCTED SERVICES	COMPLETION	DETAILS	No.	REVISIONS	DATE	CONSULTANT
					DESIGN	CSL			
					DRAWN BY	PM			
					CHECKED	CSL			
					APPROVED	CSL			
					DATE	AUG. 2025			

CONSULTANT OR DIVISION

SPRIET ASSOCIATES

LONDON

CONSULTING

155 YORK STREET -- LONDON

ENGINEERS LIMITED

(519) 672-4100 -- NEA 148

ENGINEER'S STAMP

LICENCED PROFESSIONAL ENGINEER

A. F. ALTEMULU

100063920

APR 8 2025

PROVINCE OF ONTARIO

SOUTHWEST

MIDDLESEX

SCALE

HORZ. 1:250

VERT. 1:50

2.5m 0 5.0m

HORIZONTAL

0.5 0 1m

VERTICAL

TITLE

CULVERT NO. 110 REHABILITATION

CULVERT C110

CPR DRIVE

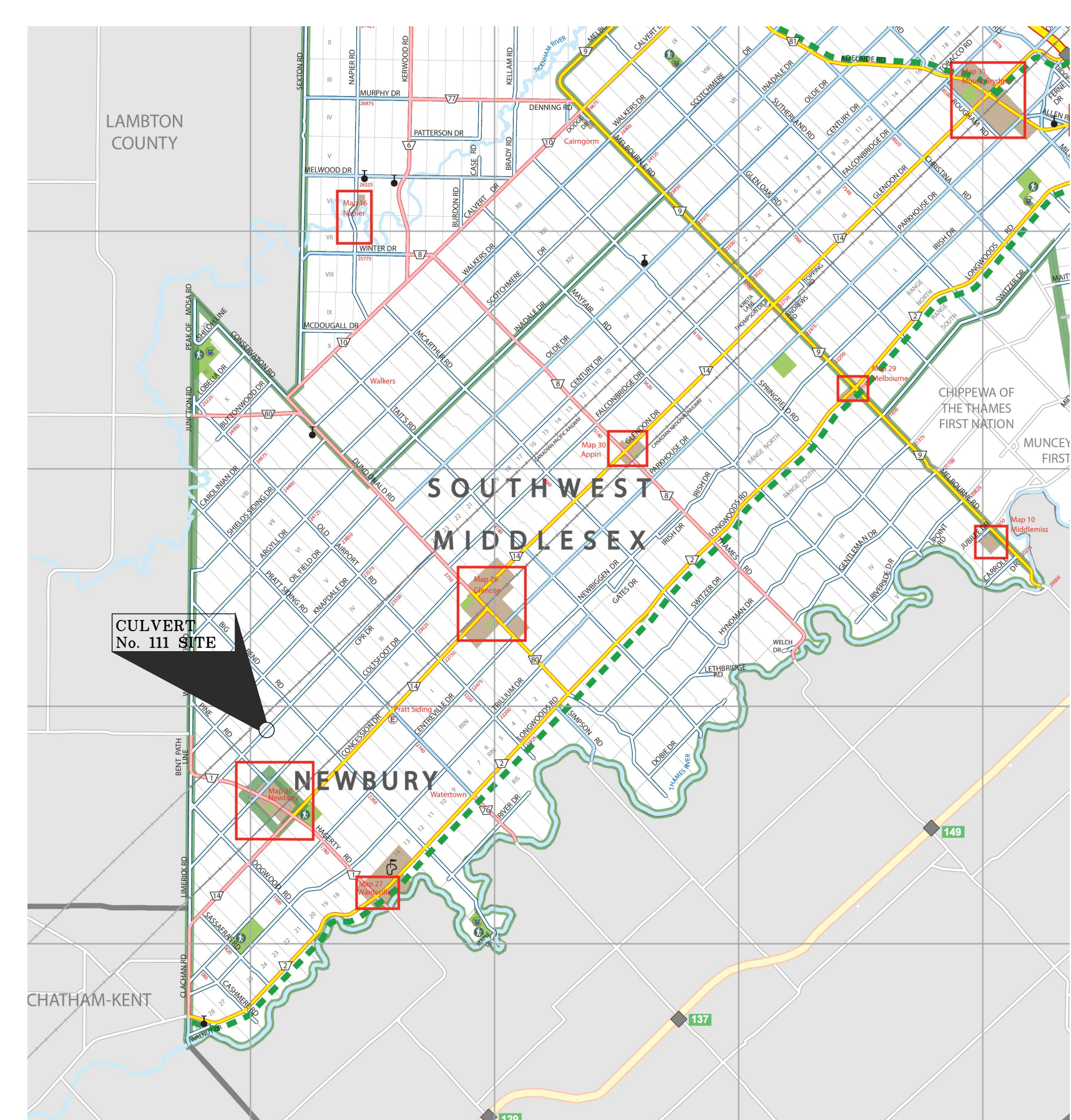
PROJECT No.

225115

SHEET No.

2

PLAN FILE No.

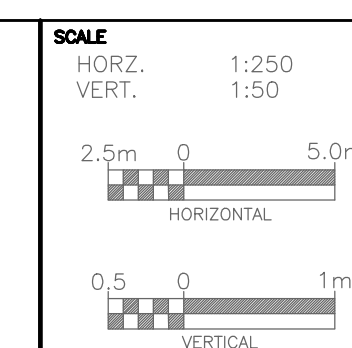
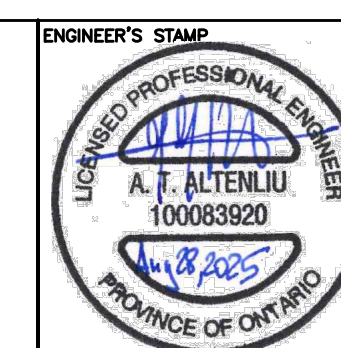


1. STRUCTURE TO BE BUILT IN ACCORDANCE WITH O.P.S.S. DIVISION 9 AND THE ENGINEER'S SPECIFICATION FOR CULVERT C111 RESTORATION, MUNICIPALITY OF SOUTHWEST MIDDLESEX.
2. CONTRACTOR TO CHECK AND VERIFY ALL DIMENSIONS ON THE JOB AND REPORT ANY DISCREPANCIES TO THE ENGINEER BEFORE PROCEEDING WITH THE WORK.
3. CONCRETE MIX
 - M.T.O. 30MPa STANDARD, 355 Kg CEMENT/m (MIN. STRENGTH @ 28 DAYS 30 MPa OR 4350 p.s.i.)
 - ALL CONCRETE SHALL INCLUDE AN APPROVED AIR ENTRAINING AGENT, 5% TO 8% AIR ENTRAINMENT REQUIRED.
 - MAXIMUM SIZE OF AGGREGATE SHALL BE 19mm IN CURBS
 - ALL EXPOSED EDGES TO BE CHAMFERED 25mm.
4. ALL EXPOSED EDGES TO BE CHAMFERED 25mm UNLESS OTHERWISE NOTED. ALL ACUTE ANGLES SHALL BE FILED AS INDICATED.
5. NO CONCRETE TO BE POURED BEFORE MATERIALS, FORMWORK, FALSEWORK AND REINFORCING HAVE BEEN CHECKED BY THE ENGINEER.
6. CONSTRUCTION JOINTS NOT SHOWN ON PLANS MUST BE APPROVED BY THE ENGINEER
7. REINFORCING STEEL (IF REQUIRED)
 - SHALL BE GRADE 400, EPOXY COATED WITH CLEAR COVER OF 60mm UNLESS NOTED OTHERWISE.
 - DOWELS TO BE EMBEDDED 200mm AND SECURED WITH HIGH STRENGTH EPOXY GROUT.
 - LAP LENGTHS OF 15M REINFORCING STEEL TO BE 580mm UNLESS OTHERWISE NOTED.

DETAIL D1

[illegible]

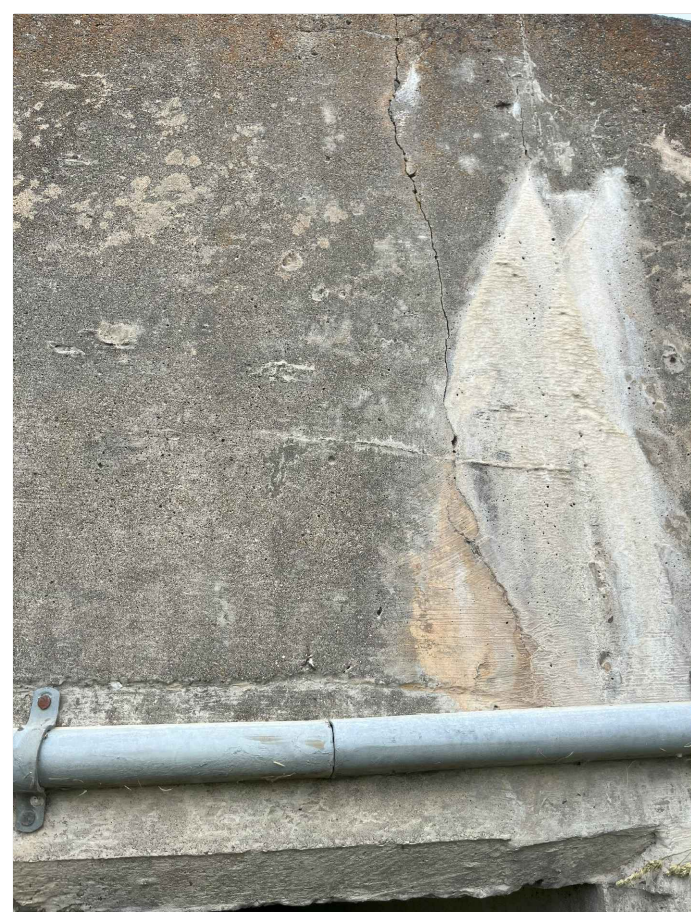
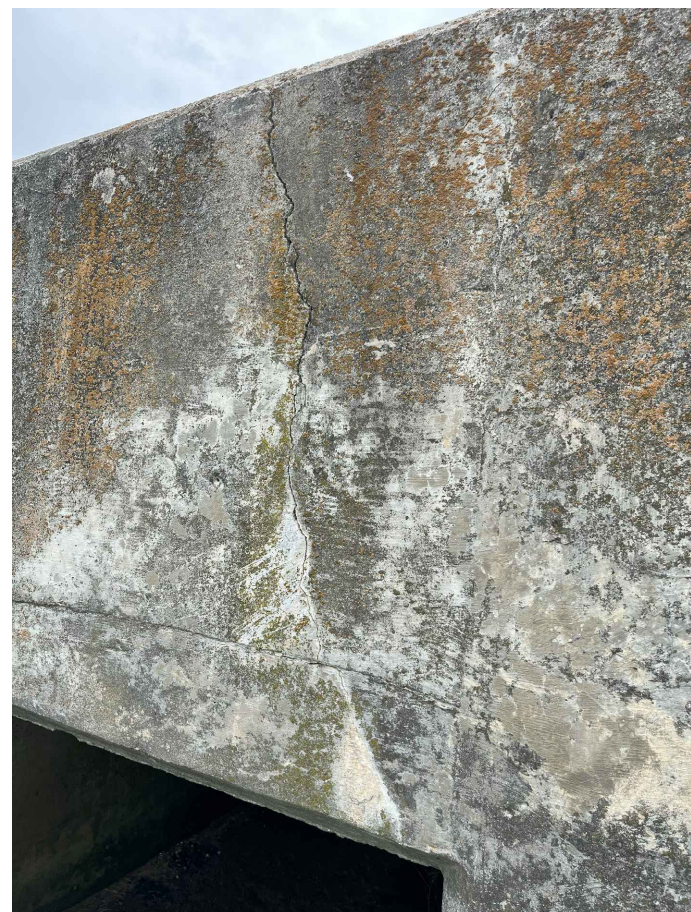
SPRIET ASSOCIATES
LONDON CONSULTING  LIMITED
155 YORK STREET -- LONDON (519) 672-4100 -- N6A 1A8



CPR DRIVE

3

PLAN FILE No.



REPAIR THE VERTICAL AND HORIZONTAL CRACKS ON NORTH CURB BY CUTTING A 'V' GROOVE ALONG THE CRACKS.(PHOTOS 1, 2 & 3) APPLY BONDING AGENT SIKATOP 100 AND PATCH WITH 'SIKATOP123 PLUS' MORTAR APPROX. 0.004 CUBIC METERS REQUIRED.

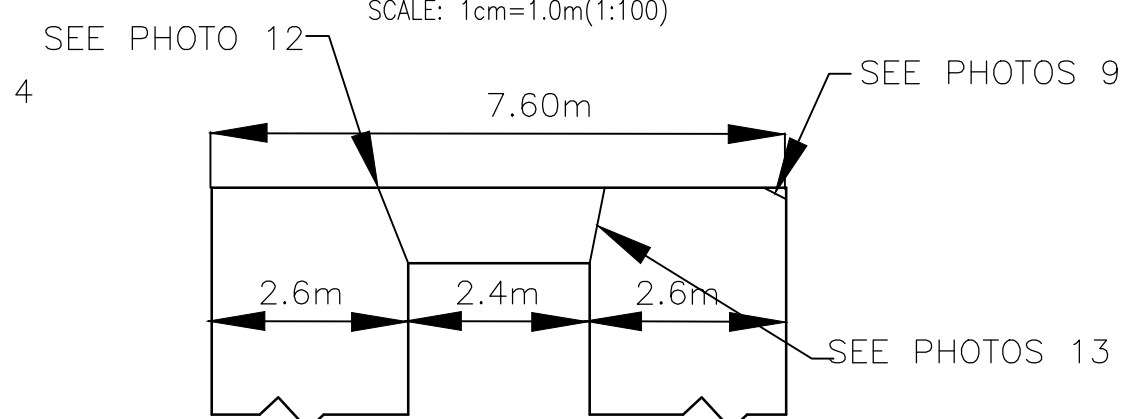
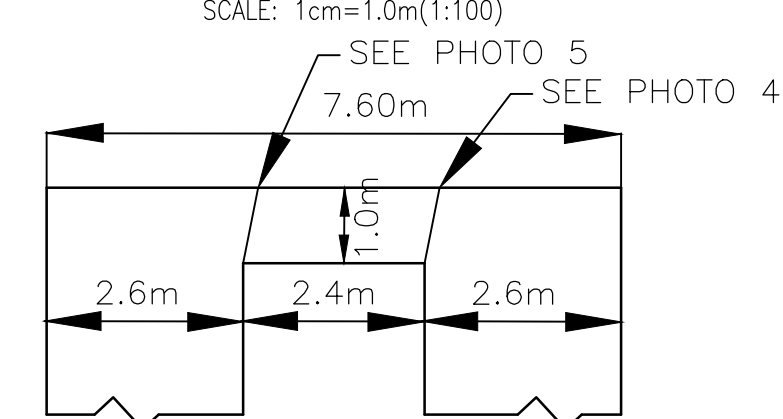
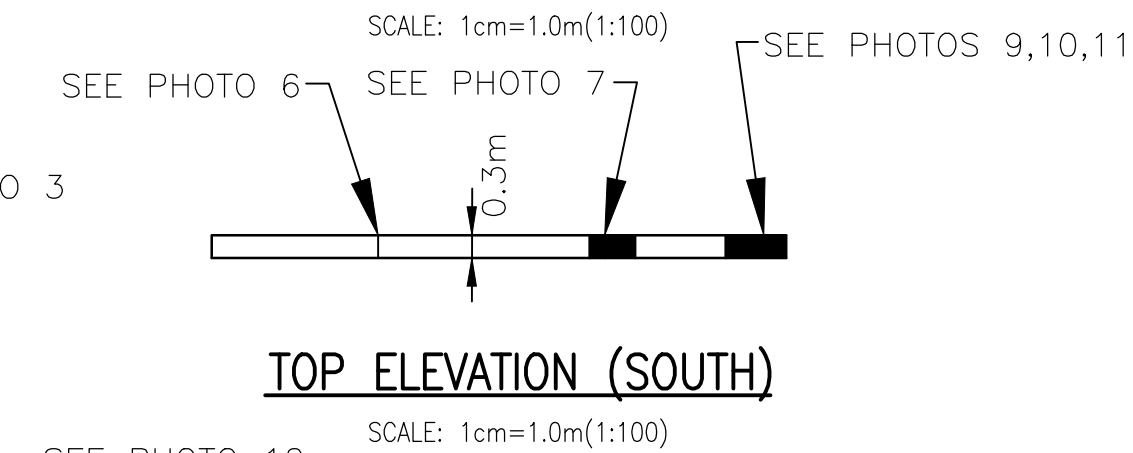
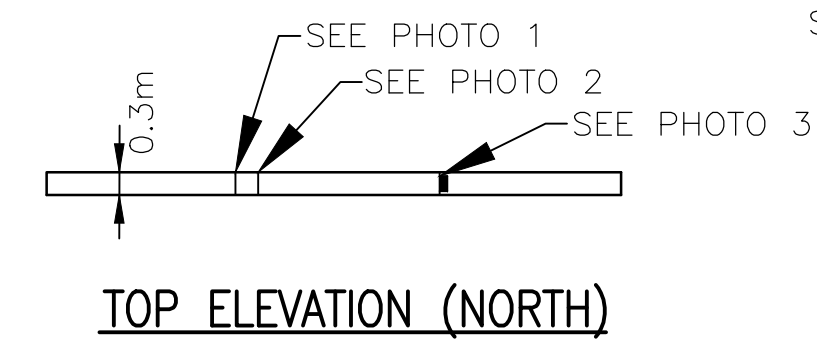
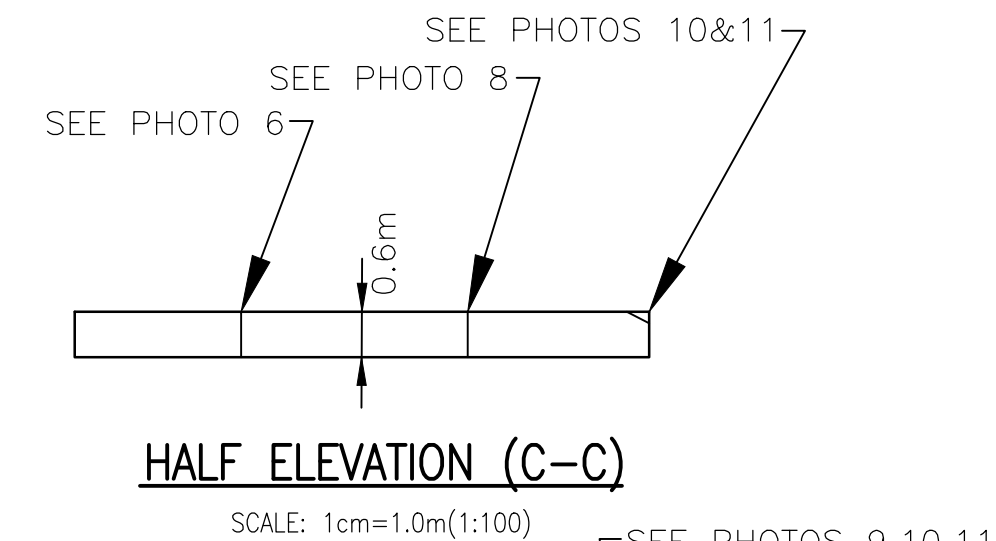
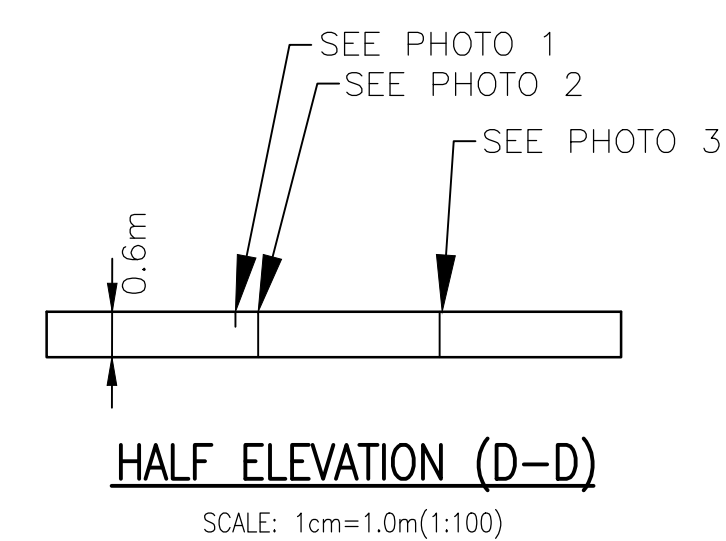
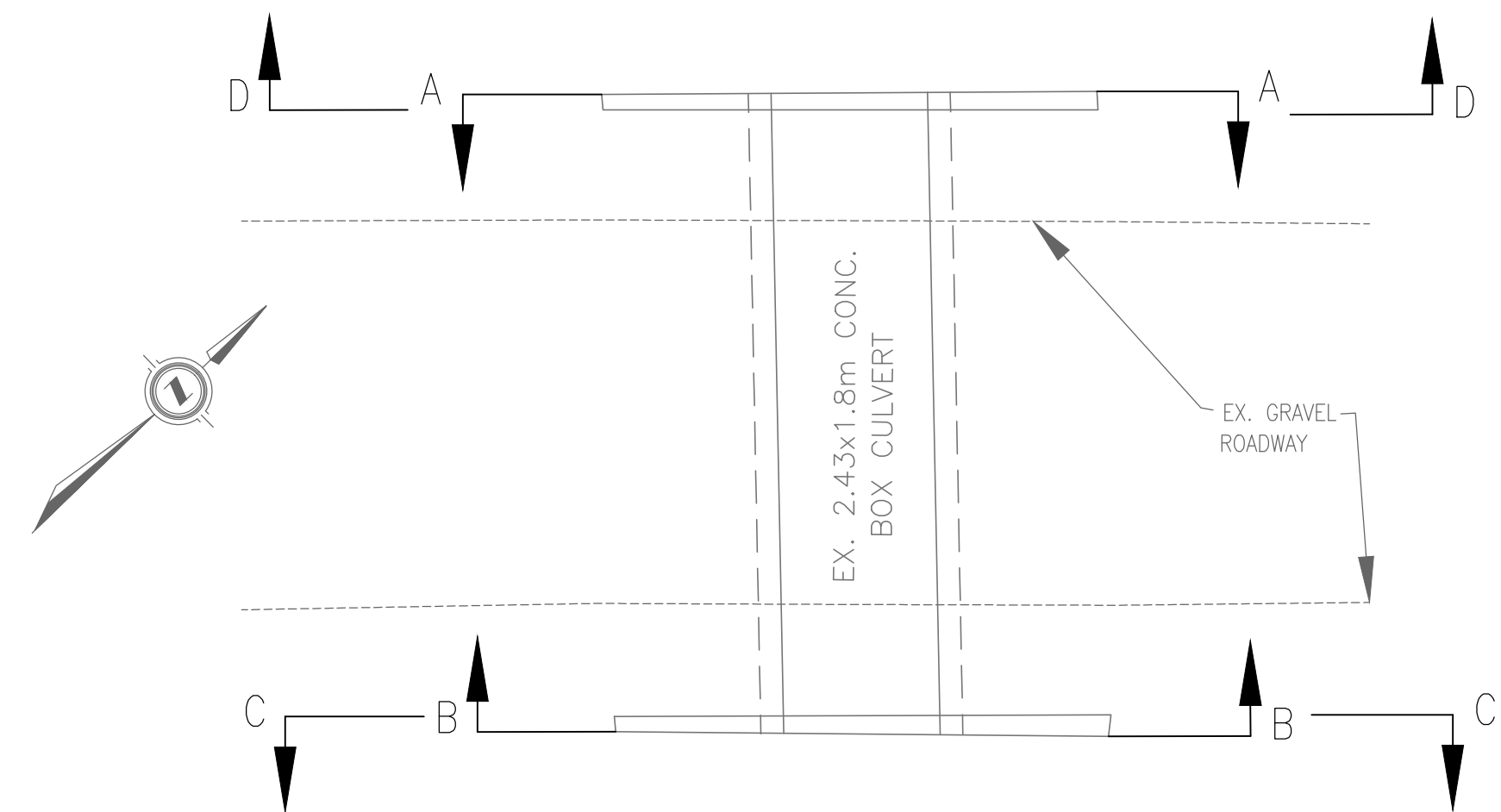
REPAIR THE DIAGONAL CRACKS ON NORTH ELEVATION BY CUTTING A 'V' GROOVE ALONG THE CRACKS.(PHOTOS 4 & 5) APPLY BONDING AGENT SIKATOP 100 AND PATCH WITH 'SIKATOP123 PLUS' MORTAR APPROX. 0.004 CUBIC METERS REQUIRED.

REPAIR THE VERTICAL AND HORIZONTAL CRACKS ON SOUTH CURB BY CUTTING A 'V' GROOVE ALONG THE CRACKS.(PHOTOS 6 & 8) APPLY BONDING AGENT SIKATOP 100 AND PATCH WITH 'SIKATOP123 PLUS' MORTAR APPROX. 0.003 CUBIC METERS REQUIRED.

REPAIR THE DIAGONAL CRACKS ON SOUTH ELEVATION BY CUTTING A 'V' GROOVE ALONG THE CRACKS.(PHOTOS 12 & 13) APPLY BONDING AGENT SIKATOP 100 AND PATCH WITH 'SIKATOP123 PLUS' MORTAR APPROX. 0.004 CUBIC METERS REQUIRED.

REPAIR THE CONCRETE DETERIORATION AT TOP OF SOUTH CURB BY CHIPPING AND REMOVING DELAMINATED CONCRETE.(PHOTO 7) SAND BLAST EXPOSED REBAR AND PAINT IT WITH ZINC RICH PAINT. PATCH WITH GROUT. APPROX. 0.02 CUBIC METERS REQUIRED.

REPAIR DETERIORATED TOP OF SOUTH WALL AT EAST END BY CHIPPING AND REMOVING UNSOUND CONCRETE.(PHOTOS 9, 10 & 11) SAND BLAST EXPOSED REBAR AND PAINT IT WITH ZINC RICH PAINT. INSTALL 2-15M @ 300MM O.C. DOWELS, STAGGERED, USE HIT-HY 200 EPOXY BY HILTI, PROVIDE 152MM EMBEDMENT AND 2-15M CONT ALONG THE WALL. SEE DETAIL D1(SHEET 3). FORM AND POUR M.T.O. APPROVED CONCRETE MIX AS PER NOTES(SHEET 3). APPROX. 0.08 CUBIC METERS REQUIRED.

[illegible]

CONSULTANT OR DIVISION

SPRIET ASSOCIATES
LONDON LIMITED
CONSULTING ENGINEERS
155 YORK STREET -- LONDON (519) 672-4100 -- N6A 1A8

ENGINEER'S STAMP



A circular professional engineer seal for the Province of Ontario. The outer ring contains the text "LICENSED PROFESSIONAL ENGINEER" at the top and "PROVINCE OF ONTARIO" at the bottom. The center of the seal features the name "A. T. ALTENU" and the number "100083920". A blue ink signature is written across the top half, and the date "July 8, 2025" is written across the bottom half.

SOUTHWEST
MIDDLESEX

SCALE

HORIZ.	1:250
VERT.	1:50

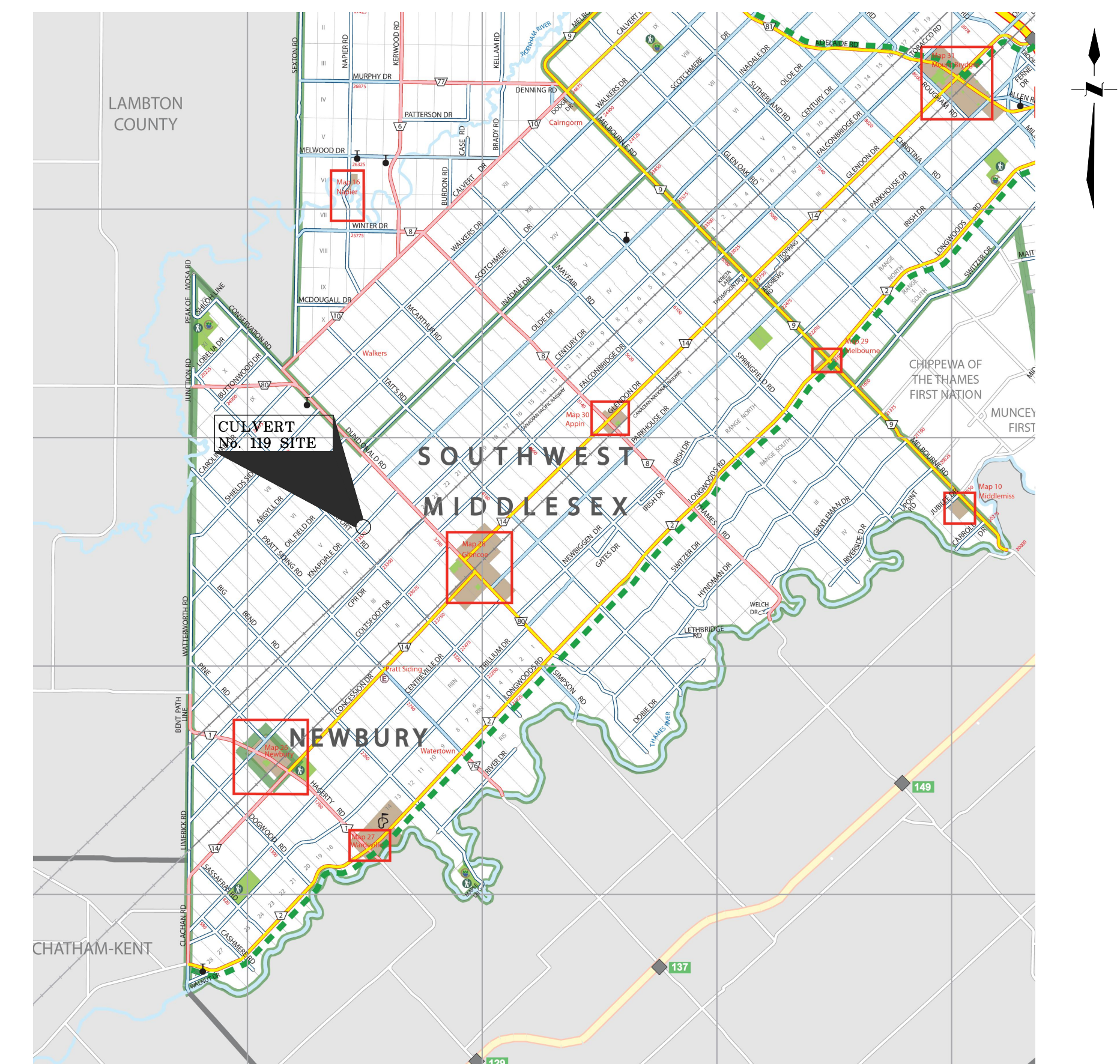
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HORIZONTAL

0.5 0 1m

VERTICAL

TITLE	PROJECT No. 225115
CULVERT NO. 111 REHABILITATION	SHEET No. 4
CULVERT C111 CPR DRIVE	PLAN FILE No.



NE CORNER - PHOTO 1
SCALE: N.T.S.



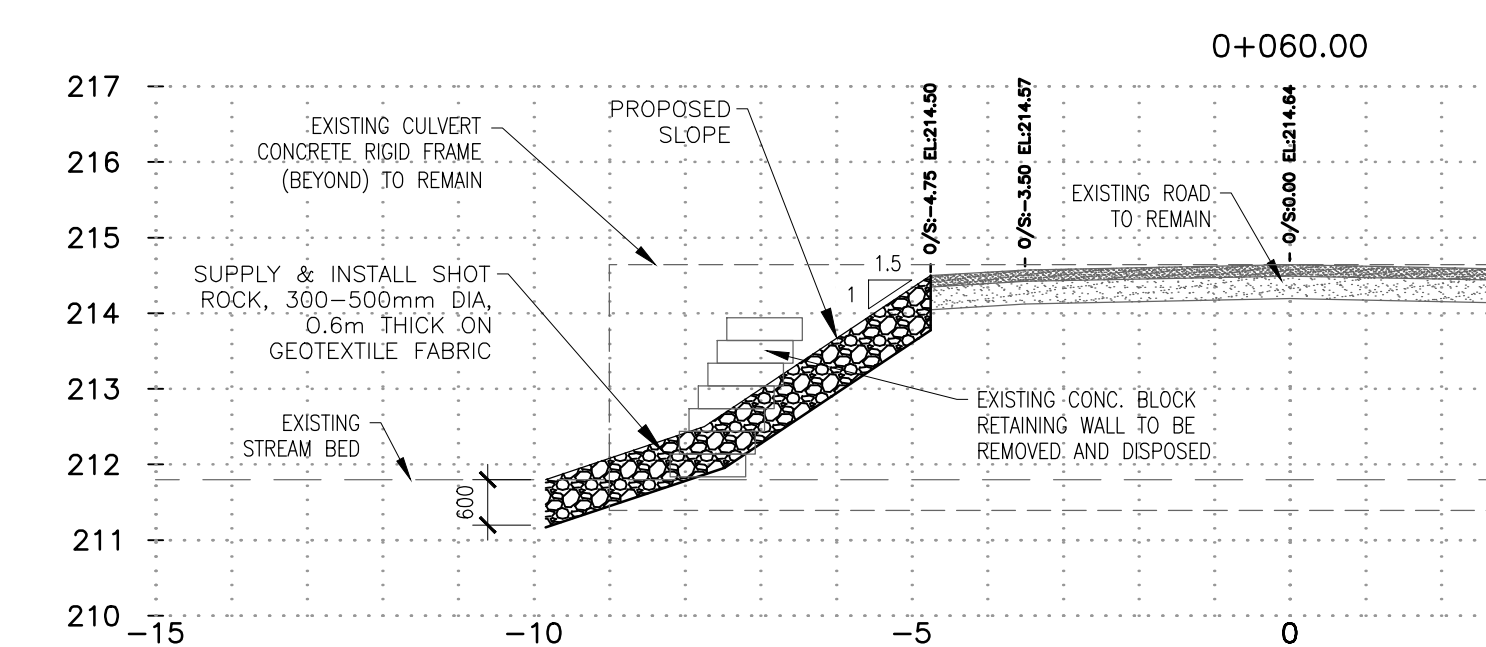
NW CORNER - PHOTO 2
SCALE: N.T.S.



SW CORNER - PHOTO 3
SCALE: N.T.S.

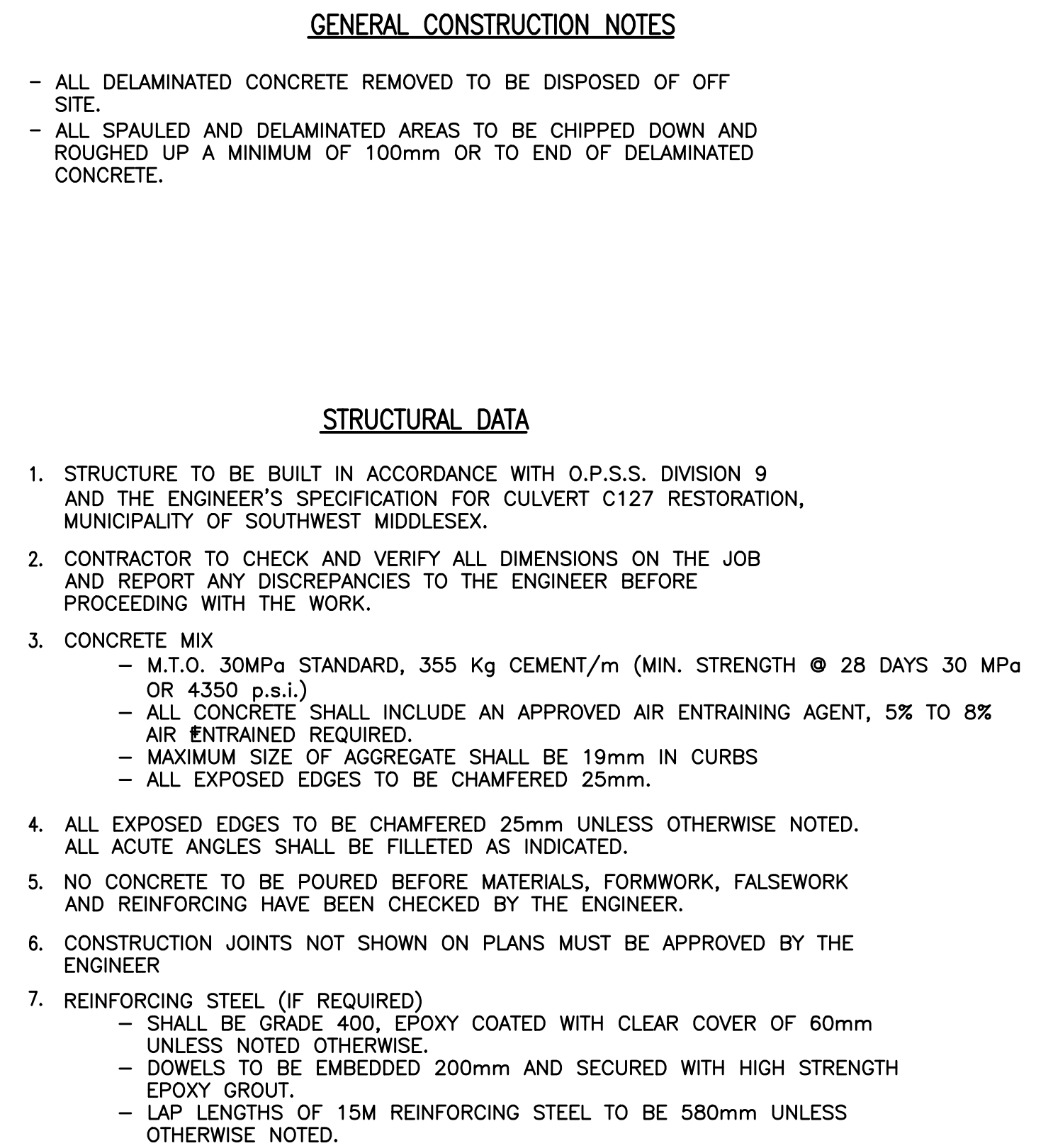
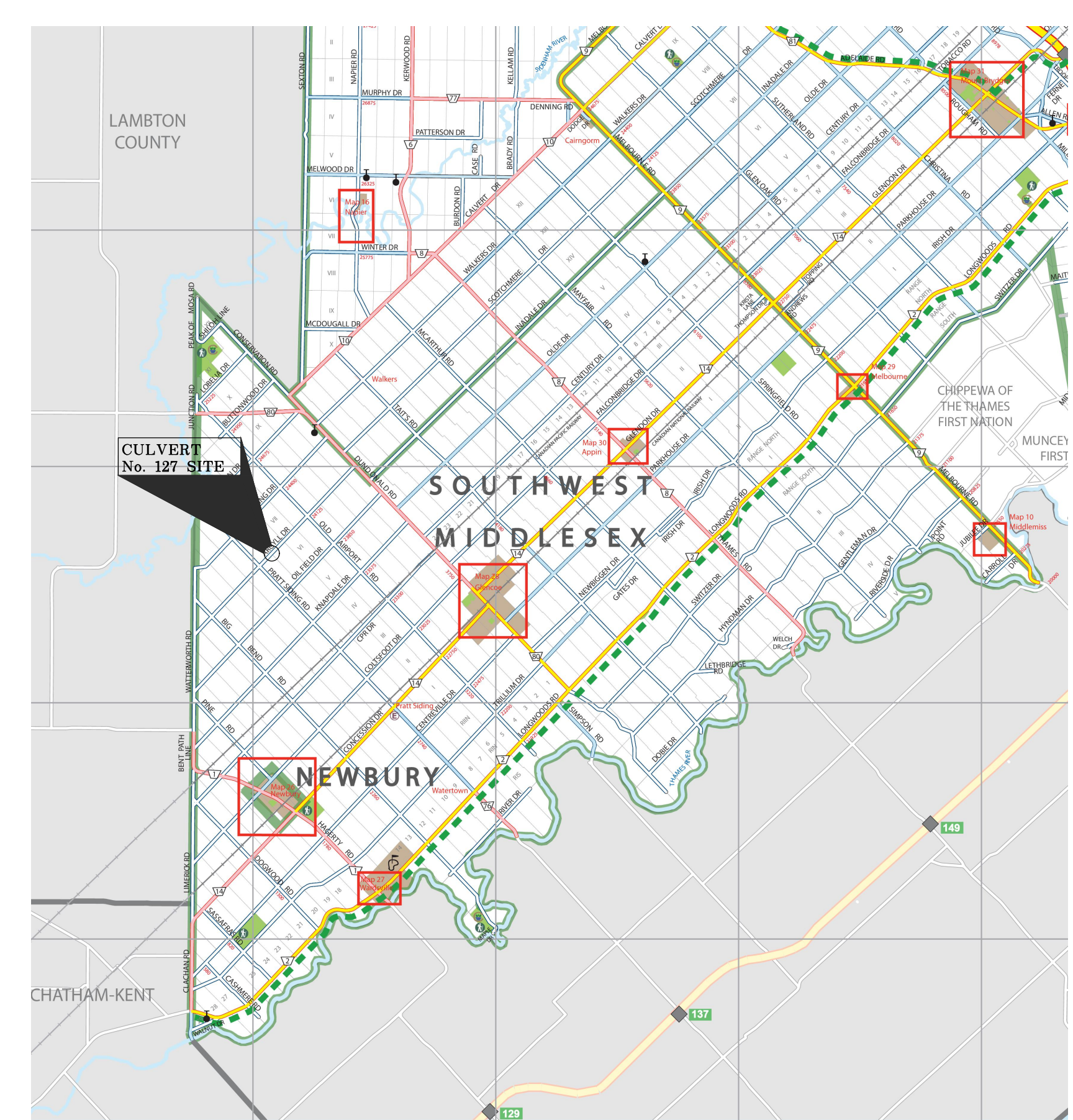


SE CORNER - PHOTO 4
SCALE: N.T.S.

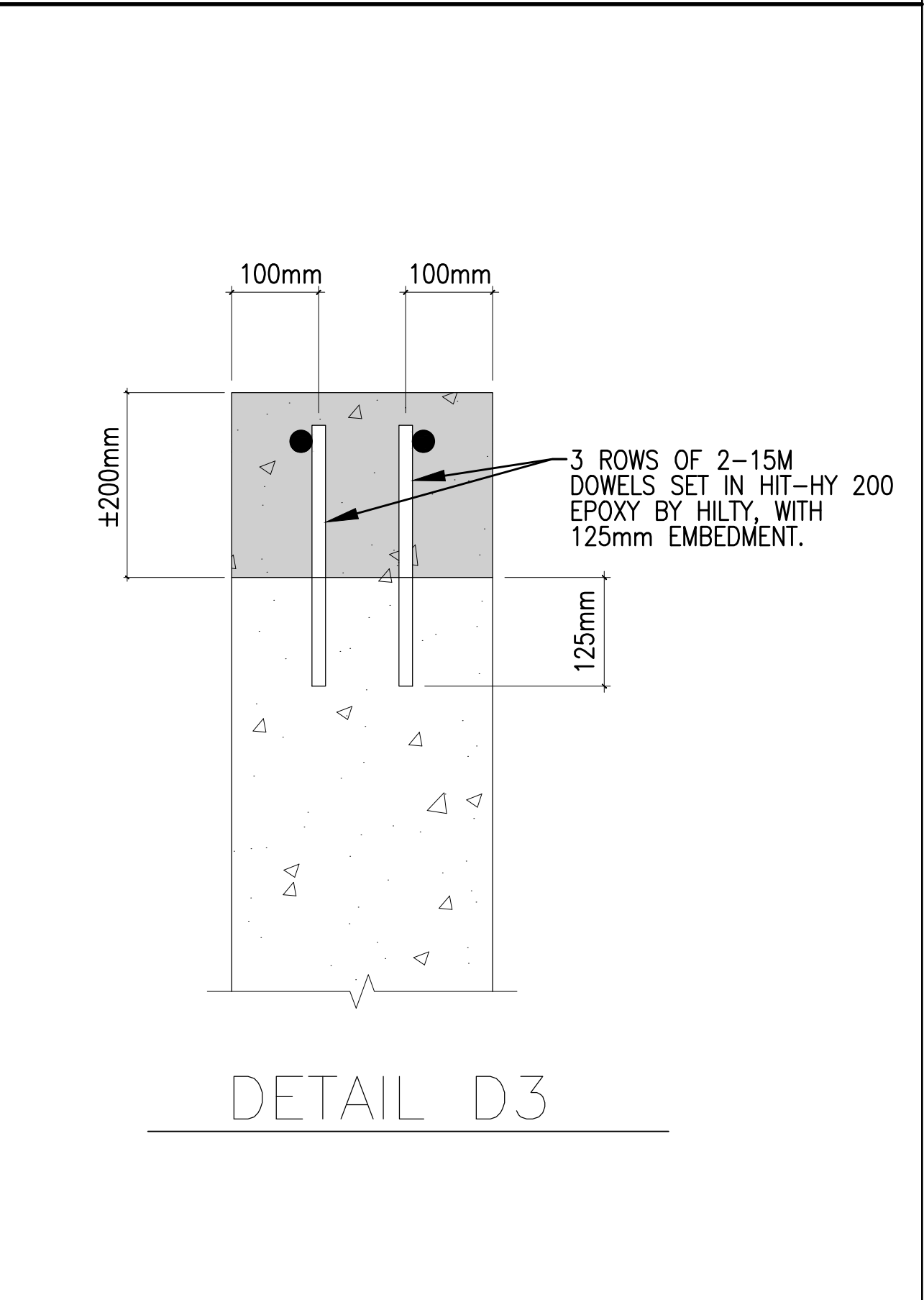
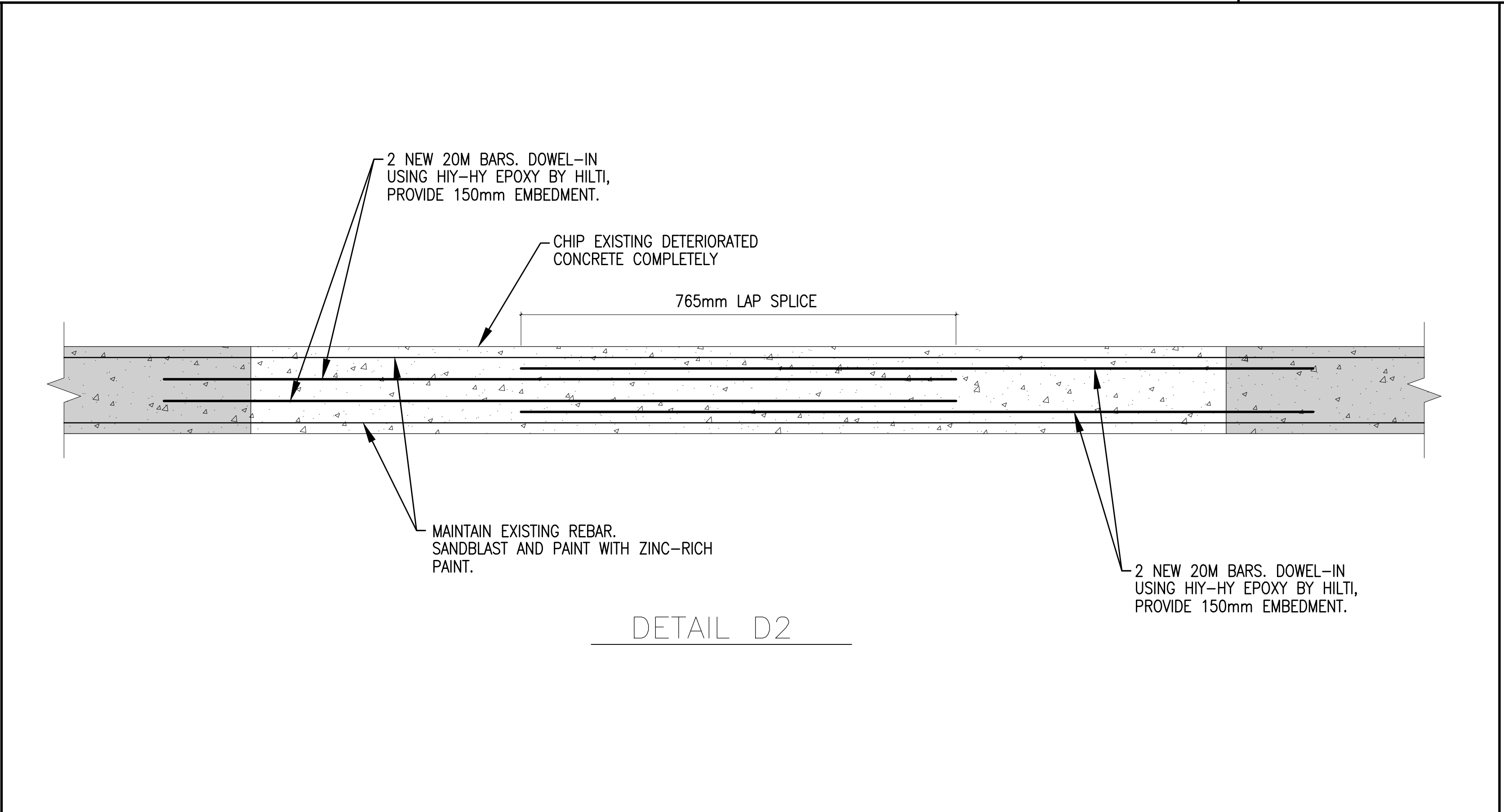
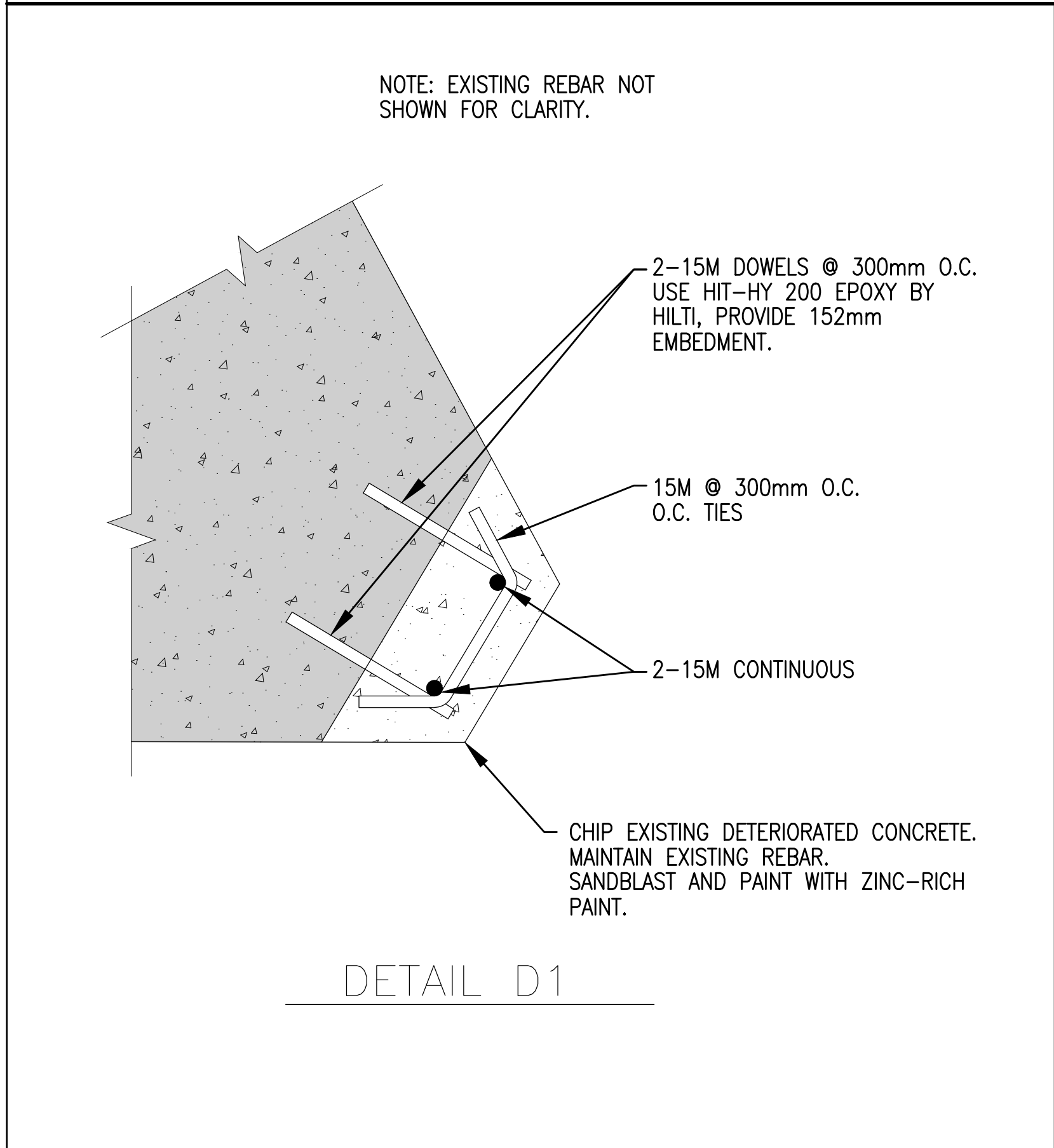
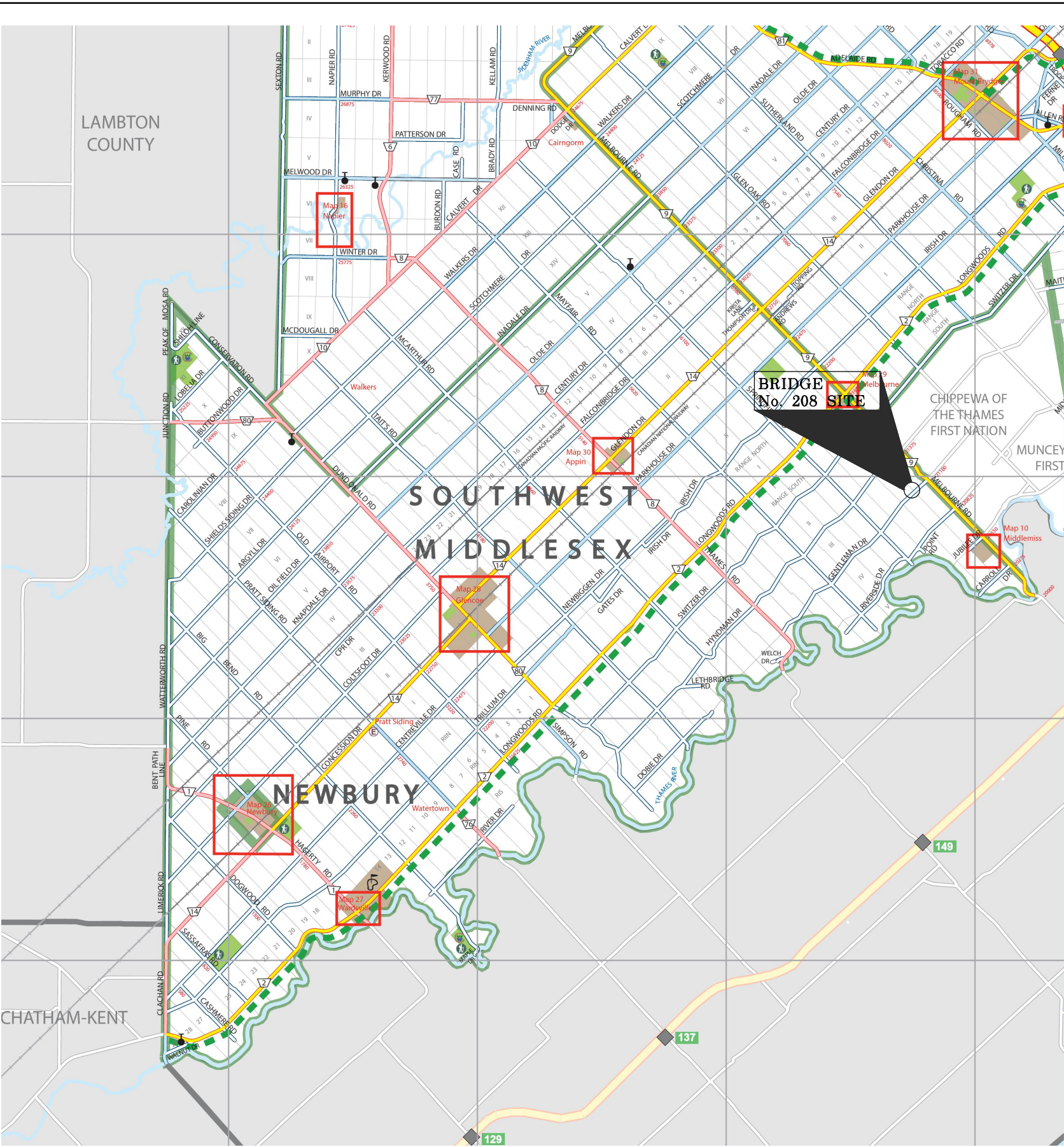
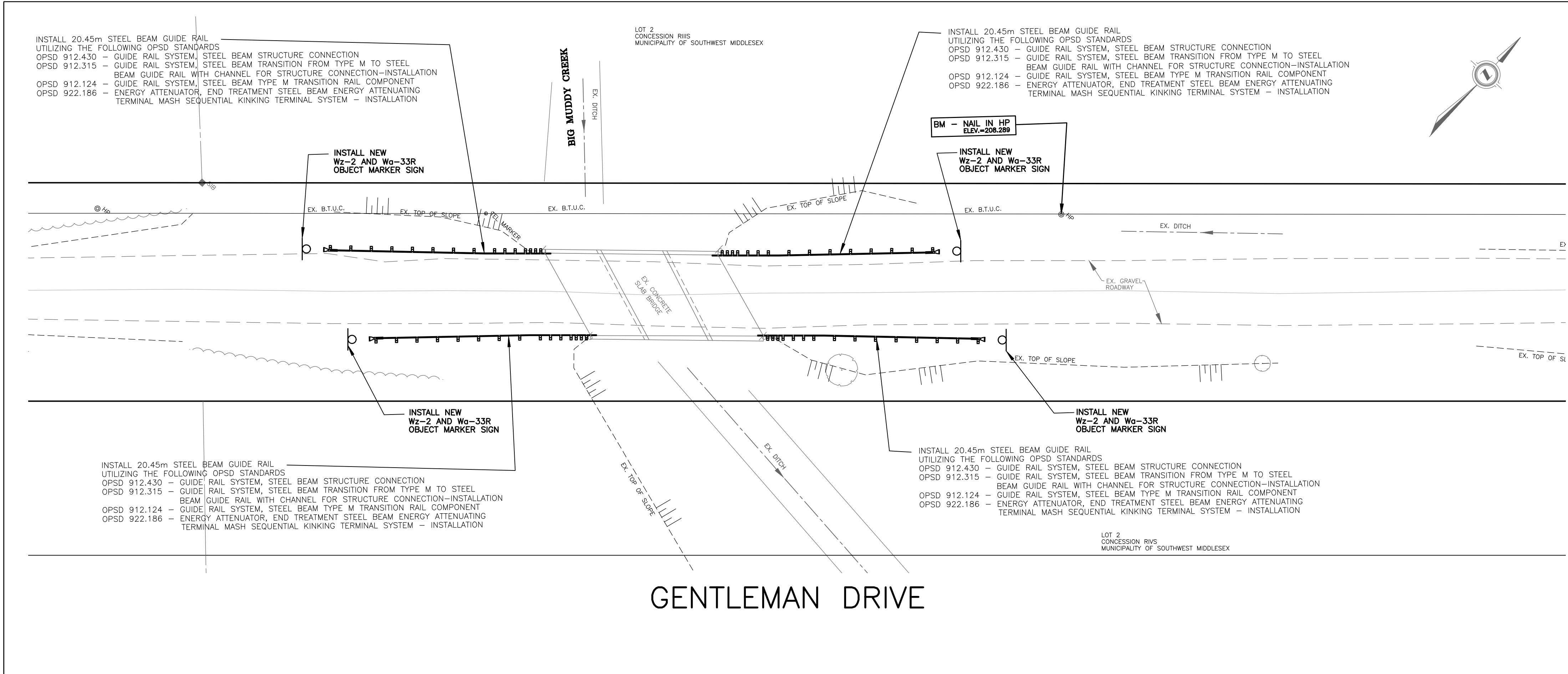


TYPICAL DETAIL (SECTION A-A)
SCALE: 1cm=1.0m(1:100)

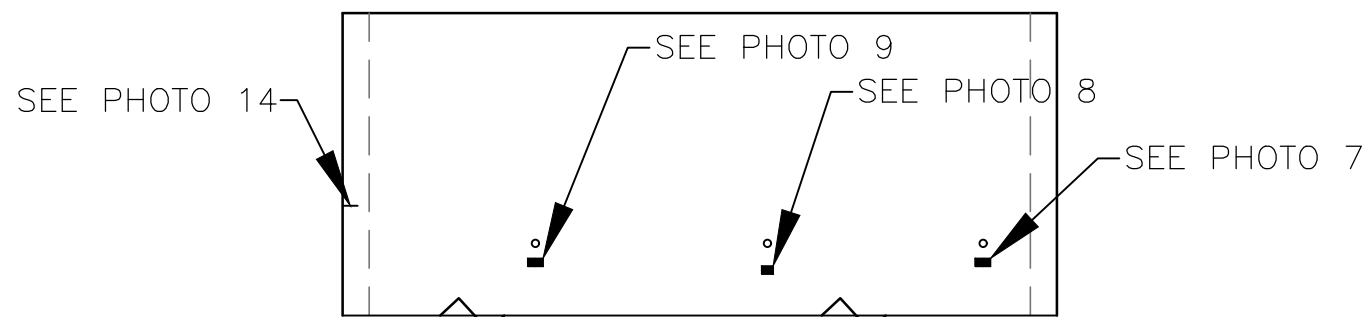
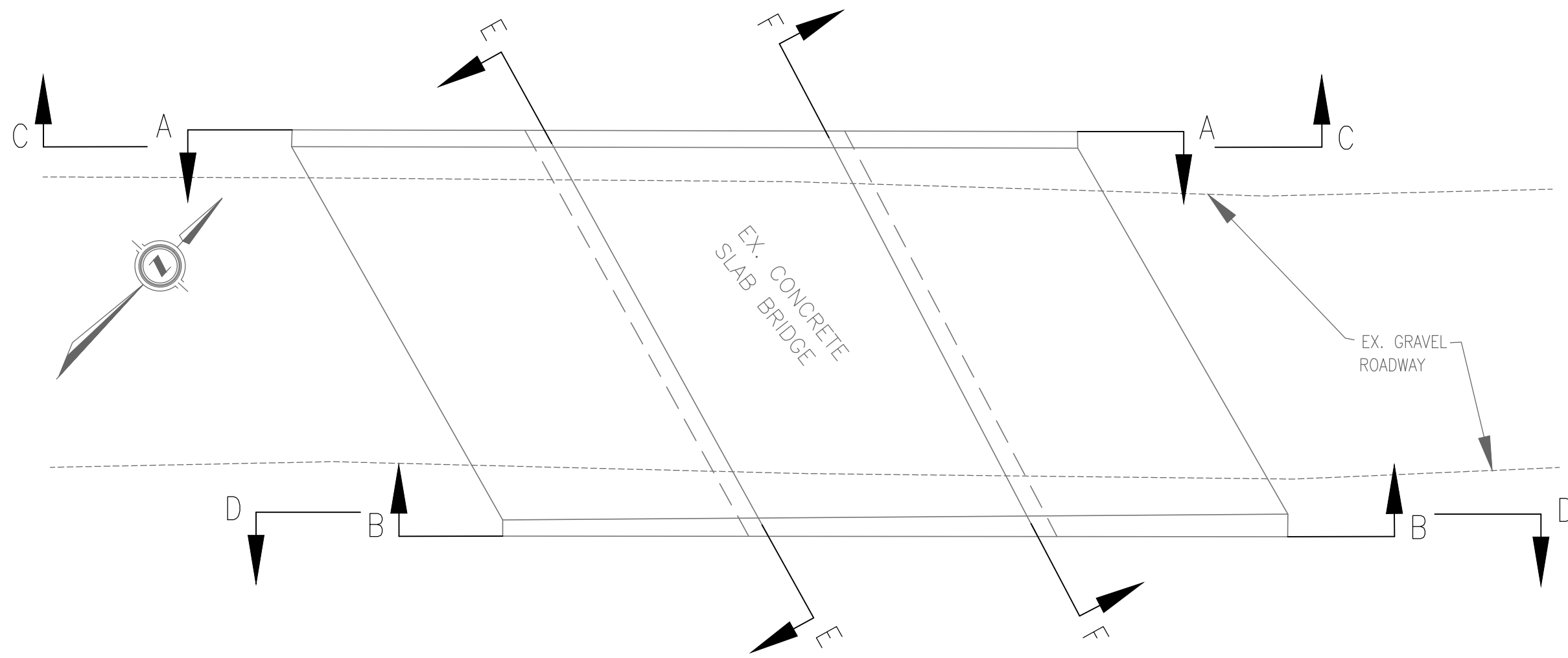
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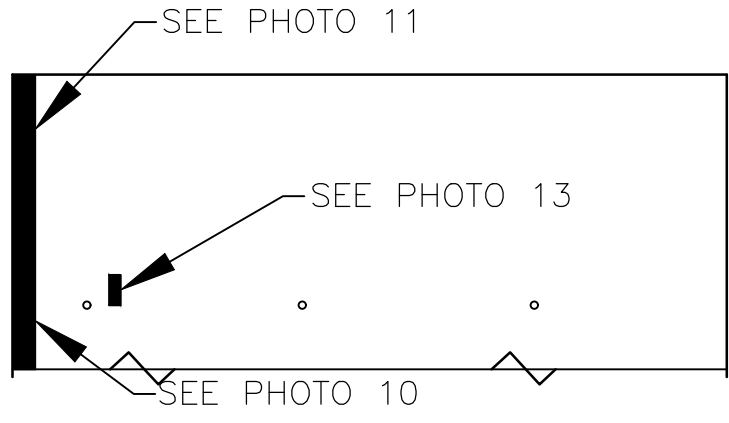
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					DESIGN	CSL				SPRIET ASSOCIATES LONDON CONSULTING ENGINEERS 155 YORK STREET -- LONDON (519) 672-4100 -- N6A 1A8	LICENSED PROFESSIONAL ENGINEER A. T. ALTENLIJ 100083920 MAY 18 2025 PROVINCE OF ONTARIO	LICENSED PROFESSIONAL ENGINEER E. S. LERMAN 81287250 AUG 12 2025 PROVINCE OF ONTARIO	SOUTHWEST MIDDLESEX	SCALE HORZ. 1:250 VERT. 1:50 2.5m 0 5.0m HORIZONTAL 0.5 0 1m VERTICAL	CULVERT NO. 127 REHABILITATION	225115		
					DRAWN BY	PM											CULVERT C127	SHEET No.
					CHECKED	CSL												7
					APPROVED	CSL												PLAN FILE No.
					DATE	AUG. 2025												



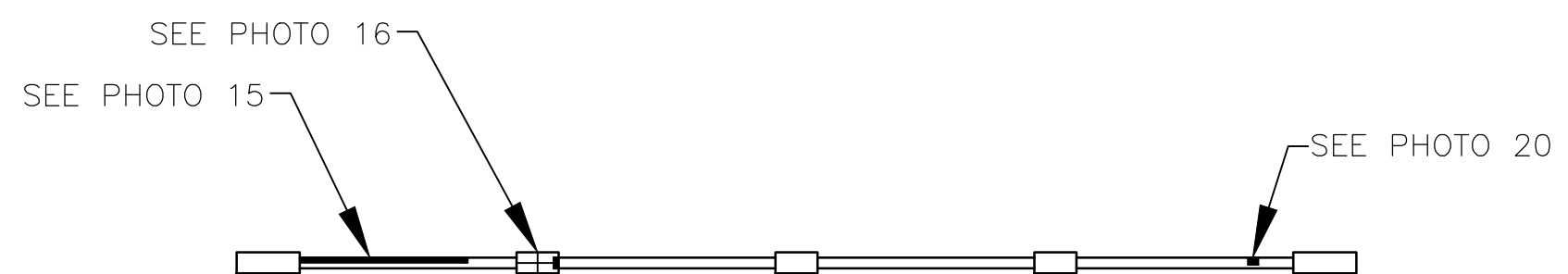
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					DESIGN AA/CSL					SPRIET ASSOCIATES LONDON CONSULTING ENGINEERS 155 YORK STREET -- LONDON (519) 672-4100 -- NSR 148			SOUTHWEST MIDDLESEX	BRIDGE NO. 208 REHABILITATION	225115
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				APPROVED CSL					PLAN FILE No.						
				DATE AUG. 2025											



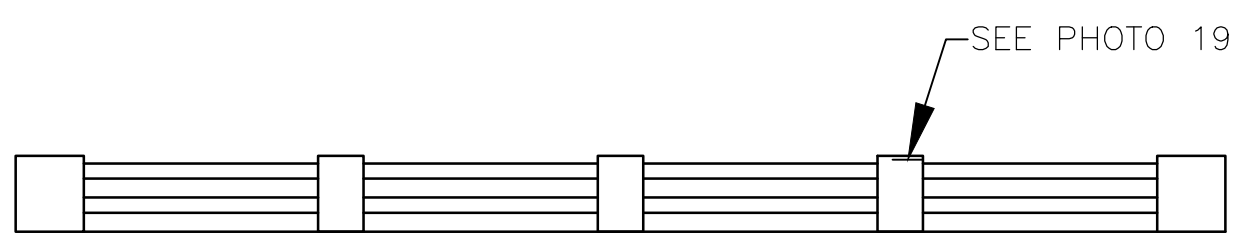
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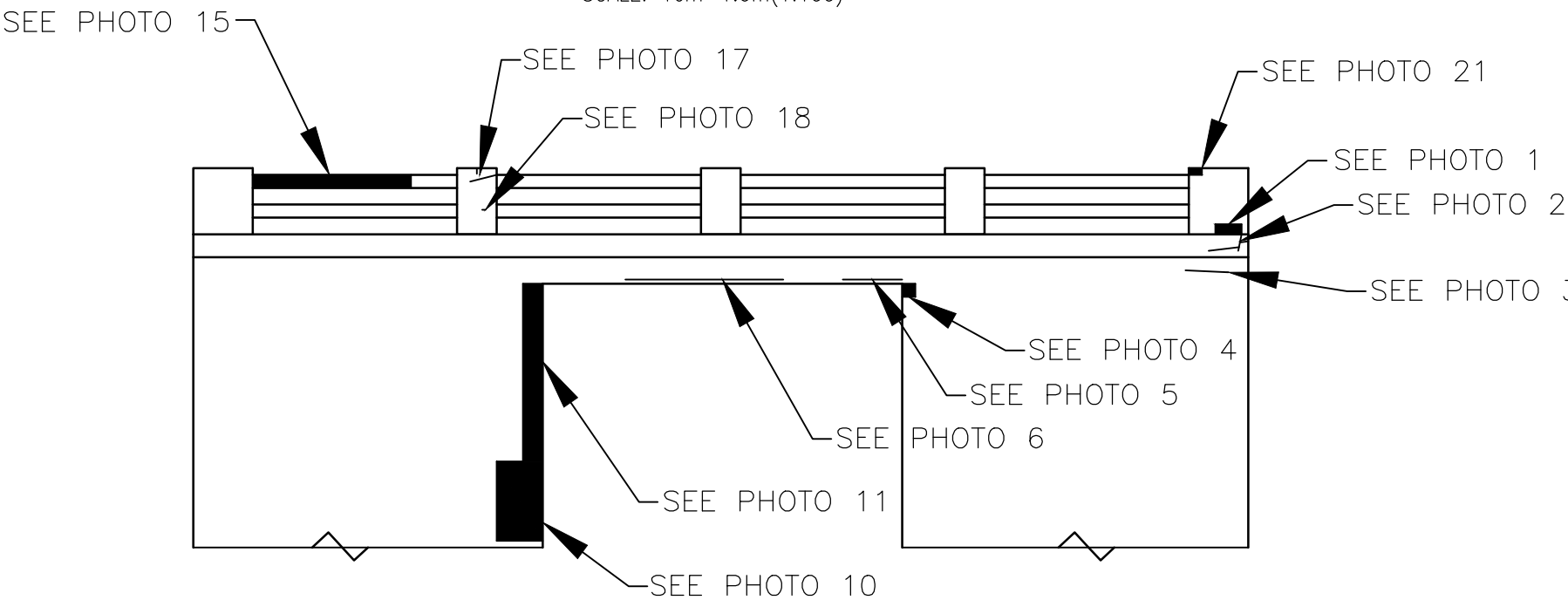
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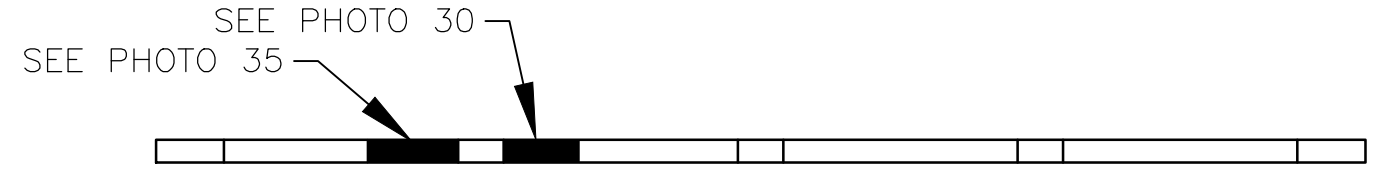
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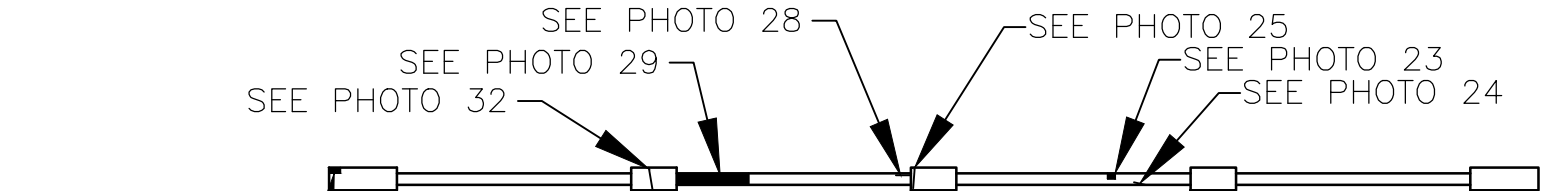
HALF ELEVATION (C-C)
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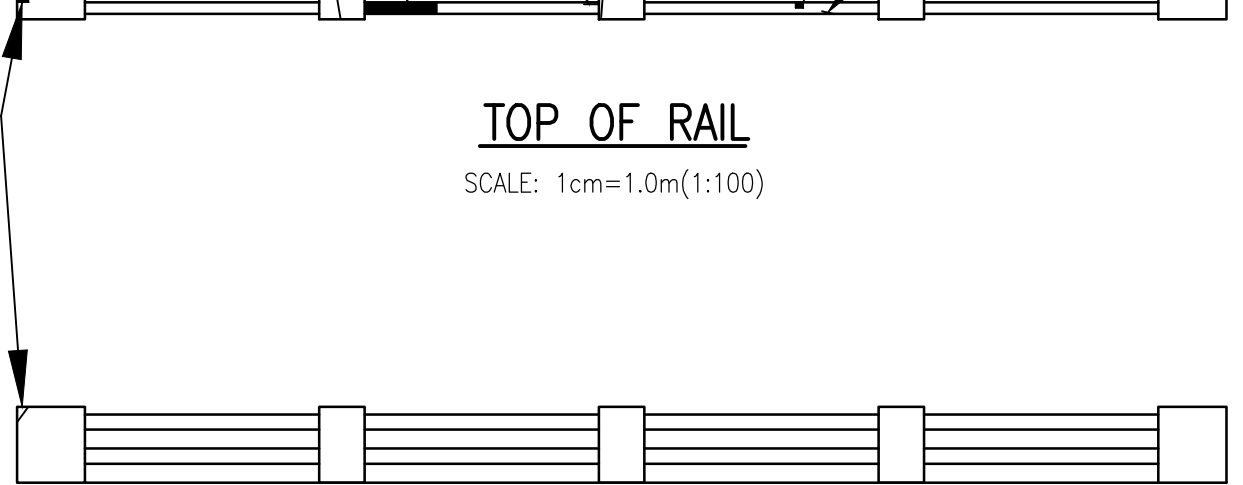
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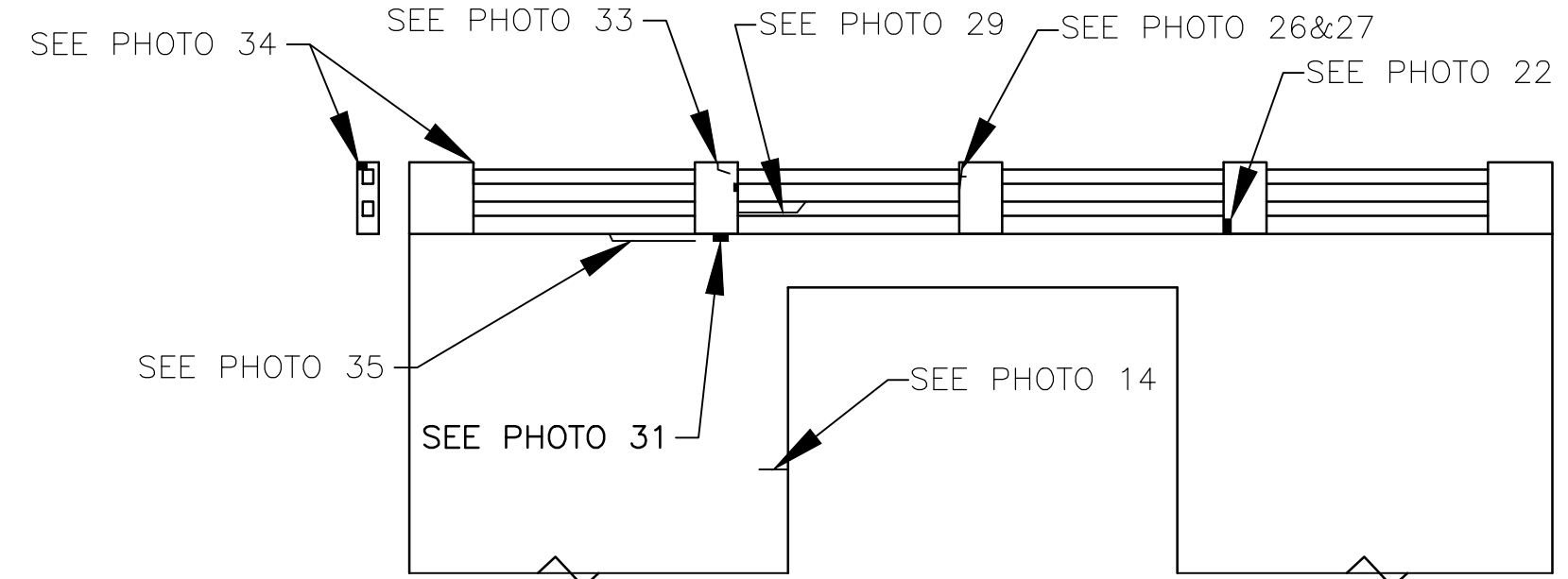
STRUCTURE UNDER RAIL
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TOP OF RAIL
SCALE: 1cm=1.0m(1:100)



HALF ELEVATION (D-D)
SCALE: 1cm=1.0m(1:100)



HALF ELEVATION (B-B)
SCALE: 1cm=1.0m(1:100)

EXISTING SERVICES	DRAWING #, SOURCE	DATE	AS CONSTRUCTED SERVICES	COMPLETION	DETAILS	No.	REVISIONS	DATE	CONSULTANT	CONSULTANT OR DIVISION	ENGINEER'S STAMP	SCALE	TITLE	PROJECT No.
					DESIGN AA/CSL					SPRIET ASSOCIATES LONDON CONSULTING ENGINEERS LIMITED 155 YORK STREET -- LONDON (519) 672-4100 -- NSA 148	LICENSED PROFESSIONAL ENGINEER A. F. ALTUNLIU 100083920 AUG 8 2025 PROVINCE OF ONTARIO	HORIZ. 1:250 VERT. 1:50 2.5m 0 5.0m HORIZONTAL 0.5 0 1m VERTICAL	BRIDGE NO. 208 REHABILITATION	225115
				DRAWN BY PM					BRIDGE 208				9	
				CHECKED CSL					GENTLEMAN DRIVE				PLAN FILE No.	
				APPROVED CSL										
				DATE AUG. 2025										



PHOTO 1



PHOTO 2

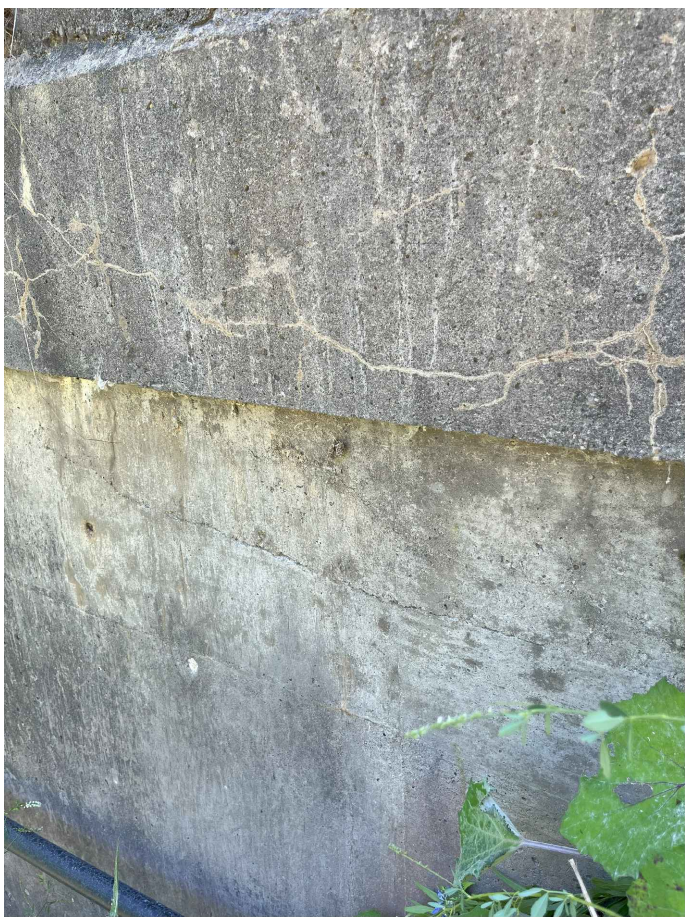


PHOTO 3



PHOTO 4



PHOTO 5



PHOTO 6



PHOTO 7



PHOTO 8



PHOTO 9



PHOTO 10



PHOTO 11

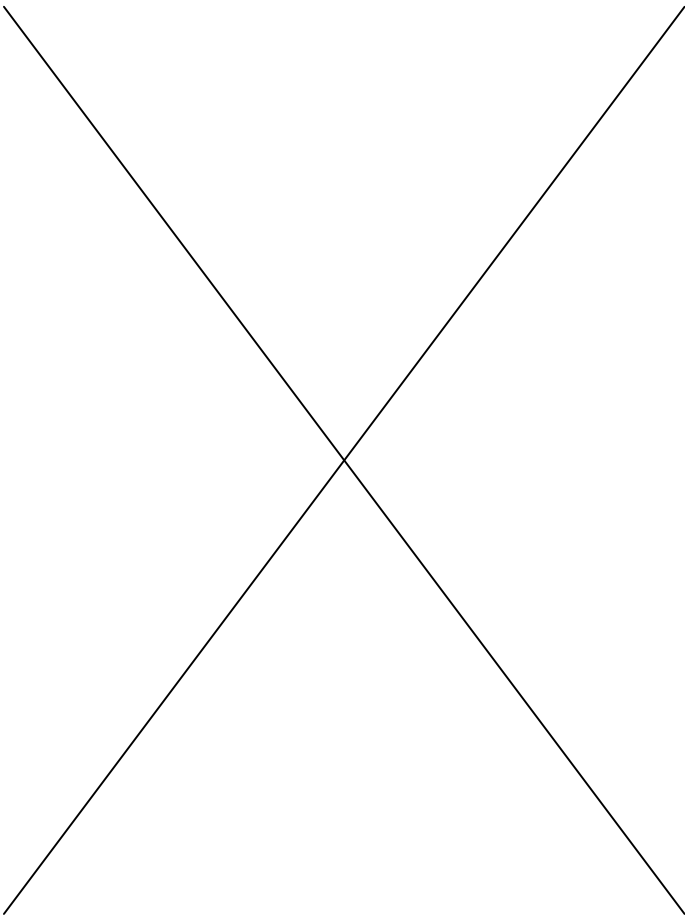


PHOTO 12
NON-APPLICABLE



PHOTO 13



PHOTO 14



PHOTO 15



PHOTO 16



PHOTO 17



PHOTO 18



PHOTO 19



PHOTO 20



PHOTO 21

DUE TO SIMILARITIES OF TYPE OF REPAIRS BETWEEN MULTIPLE LOCATIONS, THE REPAIRS HAVE BEEN GROUPED BY TYPE OF REPAIR (SEE SHEET 11). REFER TO THE PLANS AND ELEVATIONS SHOWN ON DRAWING NO. 9 TO IDENTIFY THE LOCATIONS OF THE REPAIRS.

EXISTING SERVICES	DRAWING #, SOURCE	DATE	AS CONSTRUCTED SERVICES	COMPLETION	DETAILS	No.	REVISIONS	DATE	CONSULTANT
					DESIGN AA/CSL				
					DRAWN BY PM				
					CHECKED CSL				
					APPROVED CSL				
					DATE AUG. 2025				

CONSULTANT OR DIVISION

SPRIET ASSOCIATES LIMITED

LONDON CONSULTING ENGINEERS

155 YORK STREET -- LONDON (519) 672-4100 -- N6A 1A8

ENGINEER'S STAMP

LICENCED PROFESSIONAL ENGINEER

A. T. ALTENLUU

100063920

June 8, 2025

PROVINCE OF ONTARIO



SCALE

HORZ. 1:250

VERT. 1:50

2.5m 0 5.0m

HORIZONTAL

0.5 0 1m

VERTICAL

TITLE	PROJECT No.
BRIDGE NO. 208 REHABILITATION	225115
BRIDGE 208	10
GENTLEMAN DRIVE	PLAN FILE No.



PHOTO 22



PHOTO 23



PHOTO 24



PHOTO 25



PHOTO 26



PHOTO 27



PHOTO 28



PHOTO 29



PHOTO 30

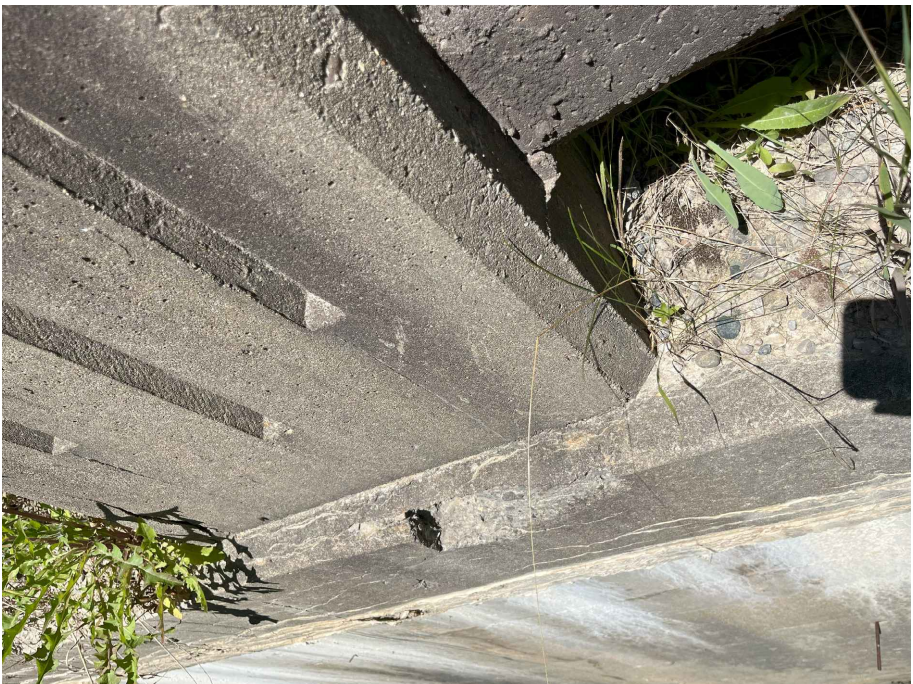


PHOTO 31



PHOTO 32



PHOTO 33



PHOTO 34



PHOTO 35



PHOTO 36

BRIDGE ABUTMENTS, WING WALLS AND DECK REPAIRS

REPAIR THE ERODED CONCRETE DETERIORATION UNDERSIDE THE DRAINS ON WEST ABUTMENT (PHOTOS 7, 8 & 9) AND NEAR THE NORTH DRAIN ON EAST ABUTMENT (PHOTO 13) BY CHIPPING AND REMOVING DETERIORATED CONCRETE. SAND BLAST EXPOSED REBAR AND PAINT IT WITH ZINC RICH PAINT. PATCH WITH GROUT. APPROX. 0.09 CUBIC METERS REQUIRED.

REPAIR DETERIORATED CHAMFERED NORTH CORNER OF THE EAST ABUTMENT BY CHIPPING FOR A DEPTH OF ± 200MM AND REMOVING THE UNSOUND CONCRETE.(PHOTOS 10 & 11) SAND BLAST EXPOSED REBAR AND PAINT IT WITH ZINC RICH PAINT. INSTALL 2-15M @ 300MM O.C. DOWELS. USE HIT-HY 200 EPOXY BY HILTI, PROVIDE 152MM EMBEDMENT. PROVIDE 2-15M CONT. VERTICAL BARS AND 15M @ 300 O.C. OPEN TIE BARS ALONG THE VERTICAL EDGE REPAIR. SEE DETAIL D1(SEE SHEET 8). FORM AND POUR M.T.O. APPROVED CONCRETE MIX AS PER NOTES. APPROX. 0.80 CUBIC METERS REQUIRED.

REPAIR DETERIORATED CONCRETE AT THE NORTH END OF WEST ABUTMENT, AT TOP, BY CHIPPING AND REMOVING DETERIORATED CONCRETE.(PHOTO 4) SAND BLAST EXPOSED REBAR AND PAINT IT WITH ZINC RICH PAINT. PATCH WITH GROUT. APPROX. 0.02 CUBIC METERS REQUIRED.

REPAIR HORIZONTAL CRACK AT TOP OF WEST WING WALL (PHOTO #3) AND AT BOTTOM SIDE OF THE DECK, NORTH ELEVATION (PHOTOS 5 & 6), BY CUTTING A "V" GROOVE ALONG THE CRACK. APPLY BONDING AGENT SIKATOP 100 AND PATCH WITH 'SIKATOP123 PLUS' MORTAR APPROX. 0.004 CUBIC METERS REQUIRED.

REPAIR HORIZONTAL CRACK BY CUTTING A "V" GROOVE ALONG THE CRACKS (PHOTO 14). APPLY BONDING AGENT SIKATOP 100 AND PATCH WITH 'SIKATOP123 PLUS' MORTAR APPROX. 0.001 CUBIC METERS REQUIRED.

DUE TO SIMILARITIES OF TYPE OF REPAIRS BETWEEN MULTIPLE LOCATIONS, THE REPAIRS HAVE BEEN GROUPED BY TYPE OF REPAIR. REFER TO THE PLANS AND ELEVATIONS SHOWN ON DRAWING NO. 9 TO IDENTIFY THE LOCATIONS OF THE REPAIRS.

CONCRETE GUARDRAIL REPAIRS

REPAIR DETERIORATED CONCRETE BY CHIPPING AND REMOVING DETERIORATED CONCRETE (PHOTOS 1-2, 19-28 & 30-36). SAND BLAST EXPOSED REBAR AND PAINT IT WITH ZINC RICH PAINT. PATCH WITH GROUT. APPROX. 0.60 CUBIC METERS REQUIRED.

REPAIR HORIZONTAL CRACK BY CUTTING A "V" GROOVE ALONG THE CRACKS (PHOTOS 17 & 18). APPLY BONDING AGENT SIKATOP 100 AND PATCH WITH 'SIKATOP123 PLUS' MORTAR APPROX. 0.004 CUBIC METERS REQUIRED.

REPAIR DETERIORATED CONCRETE BARRIER RAIL BY FULLY CHIPPING AND REMOVING CONCRETE FROM THE DETERIORATED AREA (PHOTOS 15 & 29). SAND BLAST EXPOSED REBAR AND PAINT IT WITH ZINC-RICH PAINT. INSTALL DOWELS AS PER DETAIL 2 (SEE SHEET 8). FORM AND POUR M.T.O. APPROVED CONCRETE MIX AS PER NOTES. APPROX. 0.20 CUBIC METERS REQUIRED.

REPAIR DETERIORATED TOP OF GUARDRAIL POST BY COMPLETELY CHIPPING APPROX 200MM FROM TOP, REMOVING UNSOUND CONCRETE (PHOTO 16). SAND BLAST EXPOSED REBAR AND PAINT IT WITH ZINC RICH PAINT. INSTALL 6-15M O.C. DOWELS IN THREE ROWS OF TWO DOWELS. USE HIT-HY 200 EPOXY BY HILTI, PROVIDE 152MM EMBEDMENT AND 2-15M AT TOP. SEE DETAIL D3 (SHEET 8). FORM AND POUR M.T.O. APPROVED CONCRETE MIX AS PER NOTES. APPROX. 0.50 CUBIC METERS REQUIRED.

GENERAL CONSTRUCTION NOTES

- ALL DELAMINATED CONCRETE REMOVED TO BE DISPOSED OF OFF SITE.
- ALL SPAULDED AND DELAMINATED AREAS TO BE CHIPPED DOWN AND ROUGHED UP A MINIMUM OF 100mm OR TO END OF DELAMINATED CONCRETE.

STRUCTURAL DATA

- STRUCTURE TO BE BUILT IN ACCORDANCE WITH O.P.S.S. DIVISION 9 AND THE ENGINEER'S SPECIFICATION FOR BRIDGE 208 RESTORATION, MUNICIPALITY OF SOUTHWEST MIDDLESEX.
- CONTRACTOR TO CHECK AND VERIFY ALL DIMENSIONS ON THE JOB AND REPORT ANY DISCREPANCIES TO THE ENGINEER BEFORE PROCEEDING WITH THE WORK.
- CONCRETE MIX
 - M.T.O. 30MPa STANDARD, 355 Kg CEMENT/m (MIN. STRENGTH @ 28 DAYS 30 MPa OR 4350 p.s.i.)
 - ALL CONCRETE SHALL INCLUDE AN APPROVED AIR ENTRAINING AGENT, 5% TO 8% AIR ENTRAINMENT REQUIRED.
 - MAXIMUM SIZE OF AGGREGATE SHALL BE 19mm IN CURBS
 - ALL EXPOSED EDGES TO BE CHAMFERED 25mm.
- ALL EXPOSED EDGES TO BE CHAMFERED 25mm UNLESS OTHERWISE NOTED. ALL ACUTE ANGLES SHALL BE FILLETED AS INDICATED.
- NO CONCRETE TO BE POURED BEFORE MATERIALS, FORMWORK, FALSEWORK AND REINFORCING HAVE BEEN CHECKED BY THE ENGINEER.
- CONSTRUCTION JOINTS NOT SHOWN ON PLANS MUST BE APPROVED BY THE ENGINEER
- REINFORCING STEEL (IF REQUIRED)
 - SHALL BE GRADE 400, EPOXY COATED WITH CLEAR COVER OF 60mm UNLESS NOTED OTHERWISE.
 - DOWELS TO BE EMBEDDED 200mm AND SECURED WITH HIGH STRENGTH EPOXY GROUT.
 - LAP LENGTHS OF 15M REINFORCING STEEL TO BE 580mm UNLESS OTHERWISE NOTED.

EXISTING SERVICES	DRAWING #, SOURCE	DATE	AS CONSTRUCTED SERVICES	COMPLETION	DETAILS	No.	REVISIONS	DATE	CONSULTANT
					DESIGN AA/CSL				
					DRAWN BY FM				
					CHECKED CSL				
					APPROVED CSL				
					DATE AUG. 2025				

CONSULTANT OR DIVISION

SPRIET ASSOCIATES

LONDON

CONSULTING

155 YORK STREET --- LONDON

ENGINEERS

LIMITED

(519) 672-4100 --- N6A 1A8

ENGINEER'S STAMP

LICENCED PROFESSIONAL ENGINEER

A. T. ALTEMULU

100063920

June 8, 2025

PROVINCE OF ONTARIO

SOUTHWEST

MIDDLESEX

SCALE

HORZ. 1:250

VERT. 1:50

2.5m 0 5.0m

HORIZONTAL

0.5 0 1m

VERTICAL

TITLE

BRIDGE NO. 208 REHABILITATION

BRIDGE 208

GENTLEMAN DRIVE

PROJECT No.

225115

SHEET No.

11

PLAN FILE No.