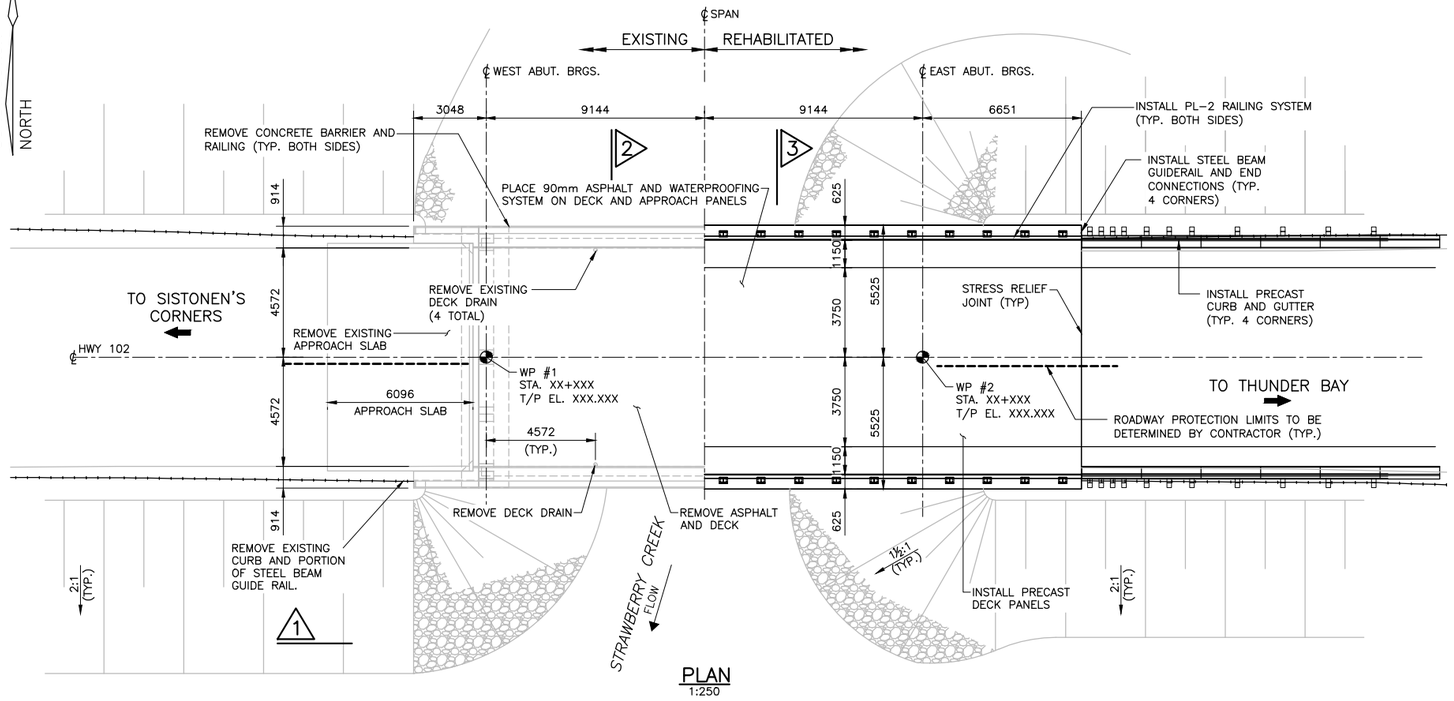

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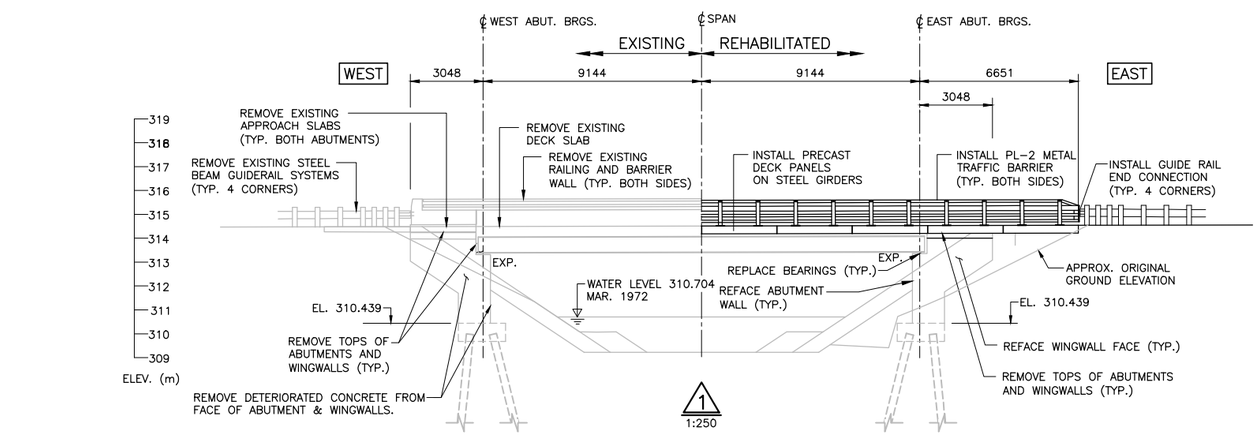

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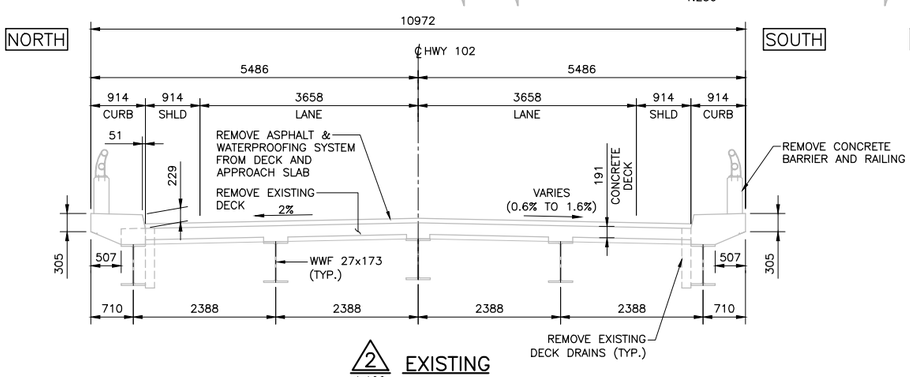

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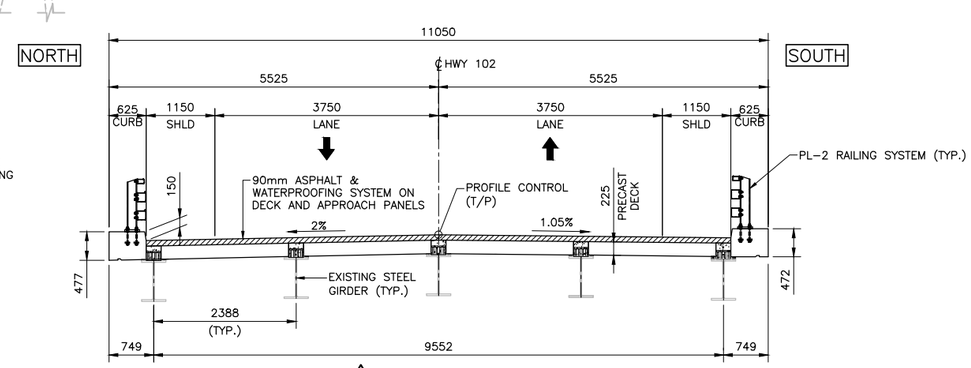

3
1:100
REHABILITATED

DRAWING NOT TO BE SCALED
100mm ON ORIGINAL DRAWING

LIST OF DRAWINGS:

1. GENERAL ARRANGEMENT
2. BOREHOLE LOCATIONS & SOIL STRATA
3. CONSTRUCTION STAGING
4. REMOVALS
5. BEARING REPLACEMENT
6. ABUTMENT MODIFICATIONS
7. PRECAST DECK PANEL LAYOUT AND DETAILS
8. CONTROL ELEVATIONS
9. PRECAST DECK PANEL DETAILS 1 OF 2
10. PRECAST DECK PANEL DETAILS 2 OF 2
11. PRECAST DECK PANEL – MISCELLANEOUS DETAILS
12. PRECAST CURB AND GUTTER LAYOUT
13. PRECAST CURB AND GUTTER REINFORCEMENT
14. PL-2 METAL TRAFFIC BARRIER RAIL LAYOUT
15. PL-2 METAL TRAFFIC BARRIER RAIL DETAILS
16. PL-2 TRAFFIC BARRIER END CONNECTION DETAILS
17. MISCELLANEOUS DETAILS

APPLICABLE STANDARD DRAWINGS:

OPSD 3370.100	DECK, WATERPROOFING HOT APPLIED ASPHALT MEMBRANE WITH PROTECTION BOARD
OPSD 3370.101	DECK, WATERPROOFING HOT APPLIED ASPHALT MEMBRANE AT ACTIVE CRACKS GREATER THAN 2mm WIDE AND CONSTRUCTION JOINTS

TO BE PROVIDED

PROFILE OF HIGHWAY 102

HWY 102
CONT. No.
WP No. 48-W-002

HWY 11 & 17
STRAWBERRY CREEK BRIDGE NO. 3

GENERAL ARRANGEMENT

MMM GROUP

SHEET

METRIC

GENERAL NOTES

CLASS OF CONCRETE:

ALL PRECAST CONCRETE	60 MPa
REMAINDER U.N.O.	35 MPa
UHPC (4 DAY)	70 MPa
UHPC (28 DAY)	100 MPa

CLEAR COVER TO REINFORCEMENT:

PRECAST CONC. PANEL – TOP & SIDES	50 ± 10
PRECAST CONC. PANEL – BOTTOM	40 ± 10
CAST-IN-PLACE CONCRETE U.N.O.	70 ± 20

GLASS FIBRE REINFORCED POLYMER (GFRP) BARS:

1. ALL GFRP REINFORCEMENT IS GRADE I UNLESS NOTED OTHERWISE ON THE DRAWINGS.
2. GLASS FIBRE REINFORCED POLYMER BAR SHALL BE IN ACCORDANCE WITH THE FOLLOWING TABLE.

GRADE	BAR DIA.	STRAIGHT BAR		BENT BARS*	
		MIN. SPECIFIED LONG. TENSILE STRENGTH kN	MIN. LONG. MODULUS OF ELASTICITY GPA	MIN, SPECIFIED LONG. TENSILE STRENGTH kN	MIN. LONG. MODULUS OF ELASTICITY GPA
I	16	130	40	130	40
	19	170		153	
III	16	200	60	200	50
	19	280		252	

* TENSILE STRENGTH AND MODULUS ARE GIVEN FOR STRAIGHT PORTION OF THE BENT BAR. MINIMUM STRENGTH AT THE BENT SHALL BE AT LEAST 40% OF THE MINIMUM STRENGTH OF THE STRAIGHT PORTION OF THE BENT GFRP BAR.

CARBON FIBRE REINFORCED POLYMER (CFRP) BARS:

1. PRESTRESSING TENDONS SHALL BE ASLAN 200 #4 (12mmø) CFRP BY HUGHES ASLAN OR V-ROD BY PULTRALL, F_{pu}=1900MPa (MINIMUM), OR AS APPROVED

CONSTRUCTION NOTES:

1. CONTRACTOR SHALL VERIFY ALL FIELD DIMENSIONS PRIOR TO BEGINNING WORK. ANY VARIATIONS SHALL BE BROUGHT TO THE ATTENTION OF THE CONTRACT ADMINISTRATOR.
2. THE CONTRACTOR SHALL VERIFY THE SIZE AND SHAPE OF ALL PRECAST COMPONENTS PRIOR TO BEGINNING WORK. ANY VARIATIONS SHALL BE BROUGHT TO THE ATTENTION OF THE CONTRACT ADMINISTRATOR.
3. THE TEMPORARY ROADWAY PROTECTION SYSTEM SHALL CONFORM TO THE REQUIREMENTS OF PERFORMANCE LEVEL 2.
4. ALL TOP FINISHED CONCRETE SURFACES SHALL HAVE A TOLERANCE SUCH THAT WHEN TESTED WITH A 3m STRAIGHT EDGE IN ANY DIRECTION THE GAP BETWEEN THE EDGE AND THE SURFACE BEING MEASURED SHALL BE NOT MORE THAN 3mm.
5. ALL ELEVATIONS ARE TO GEODETIC DATUM.
6. THE CONTRACTOR IS ADVISED NOT TO RELY ON THE WATER LEVEL SHOWN. THE WATER LEVEL IS SUBJECT TO VARIATIONS.
7. UNLESS OTHERWISE SHOWN, SAWCUTS SHALL BE 25mm DEEP OR TO THE FIRST LAYER OF REINFORCING STEEL, WHICHEVER IS LESS.

LIST OF ABBREVIATIONS:

ABUT.	– DENOTES ABUTMENT
APPROX.	– DENOTES APPROXIMATELY
BRGS.	– DENOTES BEARINGS
EL.	– DENOTES ELEVATION
PL-2	– DENOTES PERFORMANCE LEVEL 2
SHLD	– DENOTES SHOULDER
T/PC	– DENOTES TOP OF PRECAST
T/P	– DENOTES TOP OF PAVEMENT
TYP.	– DENOTES TYPICAL
UHPC	– DENOTES ULTRA HIGH PERFORMANCE CONCRETE
U.N.O.	– DENOTES UNLESS NOTED OTHERWISE
W.L.	– DENOTES WATER LEVEL
WP	– DENOTES WORKING POINT

REVISIONS	DESCRIPTION

DESIGN	NK	CHK	JD	CODE	CHBDC 10	LOAD	CL-625-ONT	DATE	AUG/14
DRAWN	GL	CHK	SV	SITE	48W-3	STRUCT		SCHEME	DWG 1

MINISTRY OF TRANSPORTATION, ONTARIO
PR-D-707 88-05
CAD FILE LOCATION AND NAME: \\Vcr-file1a\project\Bridge Group (50-82)\Mississauga-MTO Work\Rehab\S3210195-341 - STRAWBERRY CREEK BRIDGE No. 3\Drawings\S3210195-341-0010A.dwg
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DATE PLOTTED: 9/2/2014 10:29:09 AM BY: GARY LEE