

Appendix C

Structural Planning Sheets for Individual Structures:

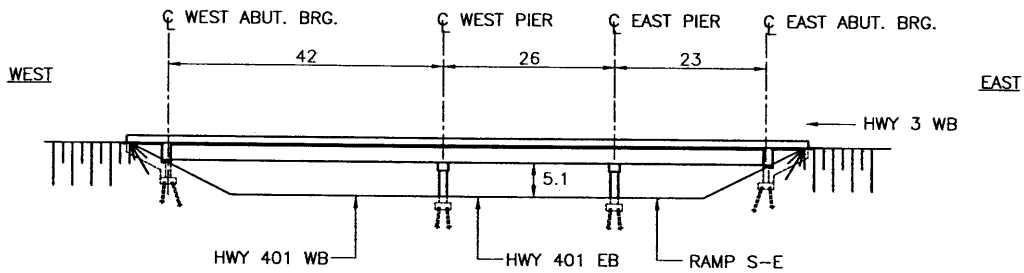
- **Alternative 1A**
- **Alternative 1B**
- **Alternative 2A**
- **Alternative 2B**
- **Alternative 3**
- **The Parkway**

Appendix C.1

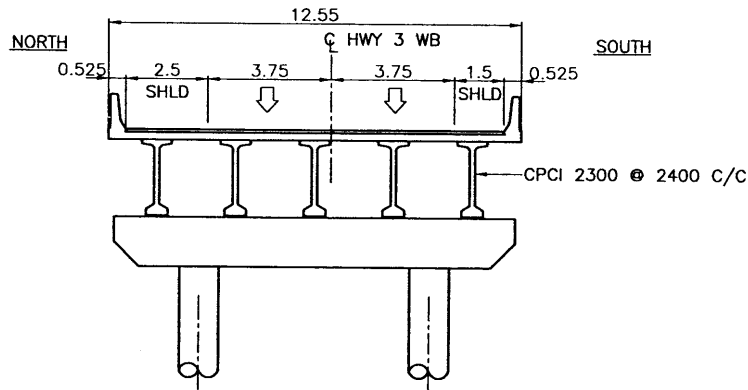
Structural Planning Sheets for Alternative 1A

STRUCTURAL PLANNING SHEET

W.O.NO.	----	CORRIDOR	HC-T	ROUTE	ALIGNMENT ALTERNATIVE 1A
STRUCTURE I.D.	1A-10	SITE NO.	----	LOCATION	HWY 3 OVER HWY 401
BRIDGE NAME	HIGHWAY 3 WB UNDERPASS			<input type="checkbox"/> EXISTING <input checked="" type="checkbox"/> NEW	<input type="checkbox"/> OVERPASS <input type="checkbox"/> BELOW GRADE HWY <input checked="" type="checkbox"/> UNDERPASS <input type="checkbox"/> APPROACH RAMP
STRUCTURE DESCRIPTION	THREE SPANS CPCI 2300 GIRDERS WITH SEMI-INTEGRAL ABUTMENTS				



ELEVATION SKETCH
1:1000



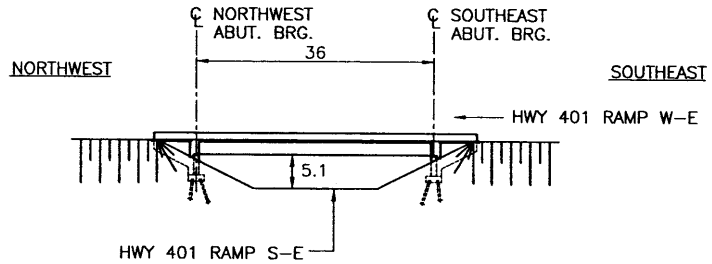
CROSS-SECTION SKETCH
1:200

LENGTH (m)	91	WIDTH (m)	12.55
STRUCTURAL DEPTH (m)	2.6	SPAN/DEPTH RATIO	16
SKEW ANGLE	40°	VERTICAL CLEARANCE (m)	5.1
UNIT PRICE (\$/m ²)	NEW STRUCTURE	2,100	ESTIMATED COST (\$) 2,398,000
	REHABILITATION	----	
COMMENTS (SPECIAL CONSTRUCTION & DESIGN FEATURES)	SEMI-INTEGRAL ABUTMENTS DUE TO 40° SKEW		
NAME OF CONSULTANT (FOR PLANNING)	URS CANADA INC.	DATE	MAY 2007

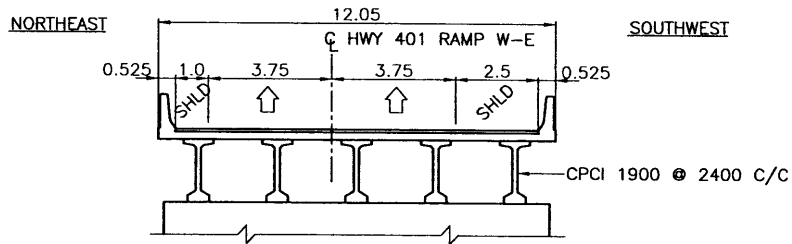
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 PLOT DATE: Aug 08, 2007 - 11:38am

STRUCTURAL PLANNING SHEET

W.O.NO.	----	CORRIDOR	HC-T	ROUTE	ALIGNMENT ALTERNATIVE 1A
STRUCTURE I.D.	1A-11	SITE NO.	----	LOCATION	HWY 401 RAMP W-E OVER RAMP S-E
BRIDGE NAME	HIGHWAY 401 RAMP W-E UNDERPASS			<input type="checkbox"/> EXISTING <input checked="" type="checkbox"/> NEW	<input type="checkbox"/> OVERPASS <input type="checkbox"/> BELOW GRADE HWY <input checked="" type="checkbox"/> UNDERPASS <input type="checkbox"/> APPROACH RAMP
STRUCTURE DESCRIPTION	SINGLE SPAN CPCI 1900 GIRDERS WITH SEMI-INTEGRAL ABUTMENTS				



ELEVATION SKETCH
1:1000



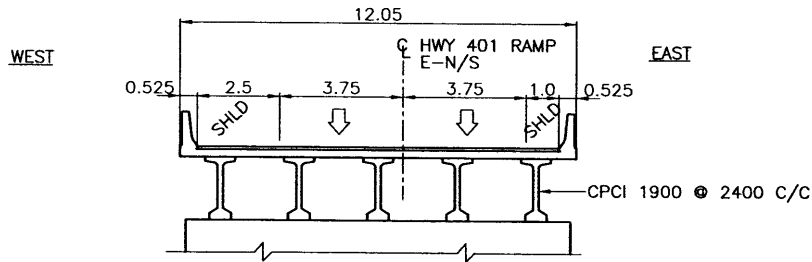
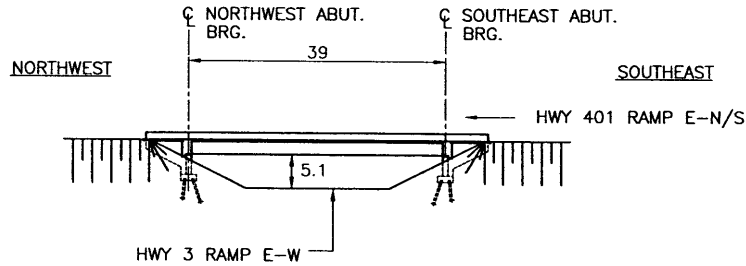
CROSS-SECTION SKETCH
1:200

LENGTH (m)	36	WIDTH (m)	12.05
STRUCTURAL DEPTH (m)	2.2	SPAN/DEPTH RATIO	16
SKEW ANGLE	50°	VERTICAL CLEARANCE (m)	5.1
UNIT PRICE (\$/m ²)	NEW STRUCTURE	2,100	ESTIMATED COST (\$) 911,000
	REHABILITATION	----	
COMMENTS (SPECIAL CONSTRUCTION & DESIGN FEATURES)	SEMI-INTEGRAL ABUTMENTS DUE TO 50° SKEW.		
NAME OF CONSULTANT (FOR PLANNING)	URS CANADA INC.	DATE	MAY 2007

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 PLOT DATE: Aug 06, 2007 - 11:42am

STRUCTURAL PLANNING SHEET

W.O.NO.	----	CORRIDOR	HC-T	ROUTE	ALIGNMENT ALTERNATIVE 1A
STRUCTURE I.D.	1A-12	SITE NO.	----	LOCATION	HWY 401 RAMP E-N/S OVER HWY 3 RAMP E-W
BRIDGE NAME	HIGHWAY 401 RAMP E-N/S OVERPASS			<input type="checkbox"/> EXISTING <input checked="" type="checkbox"/> NEW	<input checked="" type="checkbox"/> OVERPASS <input type="checkbox"/> UNDERPASS <input type="checkbox"/> BELOW GRADE HWY <input type="checkbox"/> APPROACH RAMP
STRUCTURE DESCRIPTION	SINGLE SPAN CPCI 1900 GIRDERS WITH SEMI-INTEGRAL ABUTMENTS				

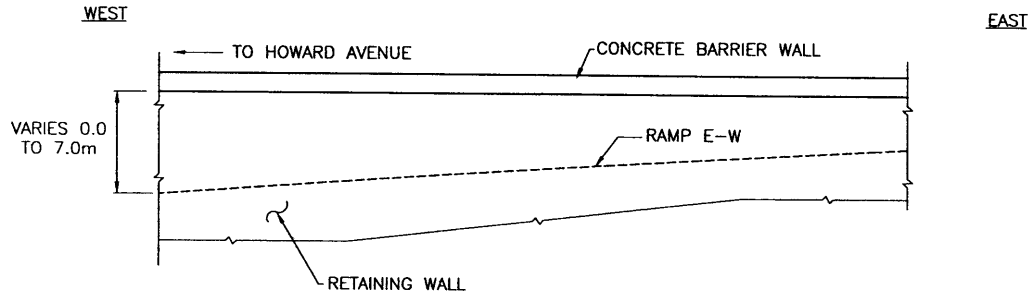


LENGTH (m)	39		WIDTH (m)	12.05
STRUCTURAL DEPTH (m)	2.2		SPAN/DEPTH RATIO	18
SKEW ANGLE	50°		VERTICAL CLEARANCE (m)	5.1
UNIT PRICE (\$/m ²)	NEW STRUCTURE	2,100	ESTIMATED COST (\$)	987,000
	REHABILITATION	----		
COMMENTS (SPECIAL CONSTRUCTION & DESIGN FEATURES)	SEMI-INTEGRAL ABUTMENTS DUE TO 50° SKEW.			
NAME OF CONSULTANT (FOR PLANNING)	URS CANADA INC.		DATE	MAY 2007

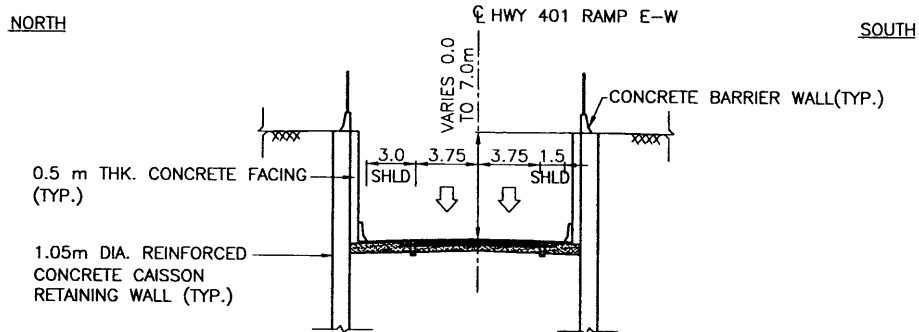
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 PLOTDATE: Aug 06, 2007 - 11:43am

STRUCTURAL PLANNING SHEET

W.O.NO.	----	CORRIDOR	HC-T	ROUTE	ALIGNMENT ALTERNATIVE 1A
STRUCTURE I.D.	1A-13	SITE NO.	----	LOCATION	HWY 401 AT WEST OF HOWARD AVENUE
STRUCTURE NAME	RAMP E-W AT WEST OF HOWARD AVENUE		<input type="checkbox"/> EXISTING <input checked="" type="checkbox"/> NEW		<input type="checkbox"/> OVERPASS <input type="checkbox"/> BELOW GRADE HWY <input type="checkbox"/> UNDERPASS <input checked="" type="checkbox"/> APPROACH RAMP
STRUCTURE DESCRIPTION	BOAT SECTION WITH CAISSON RETAINING WALLS OF VARIABLE HEIGHTS				



ELEVATION SKETCH
1:400



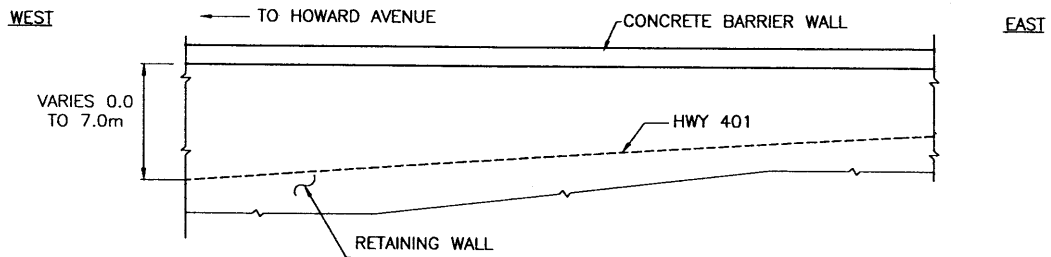
CROSS-SECTION SKETCH
1:400

LENGTH (m)	400	WIDTH (m)	----
STRUCTURAL DEPTH (m)	----	SPAN/DEPTH RATIO	----
SKEW ANGLE	----	VERTICAL CLEARANCE (m)	----
UNIT PRICE (\$/m)	NEW STRUCTURE	30,000	ESTIMATED COST (\$) 12,000,000
	REHABILITATION	----	
COMMENTS (SPECIAL CONSTRUCTION & DESIGN FEATURES)	----		
NAME OF CONSULTANT (FOR PLANNING)	URS CANADA INC.	DATE	MAY 2007

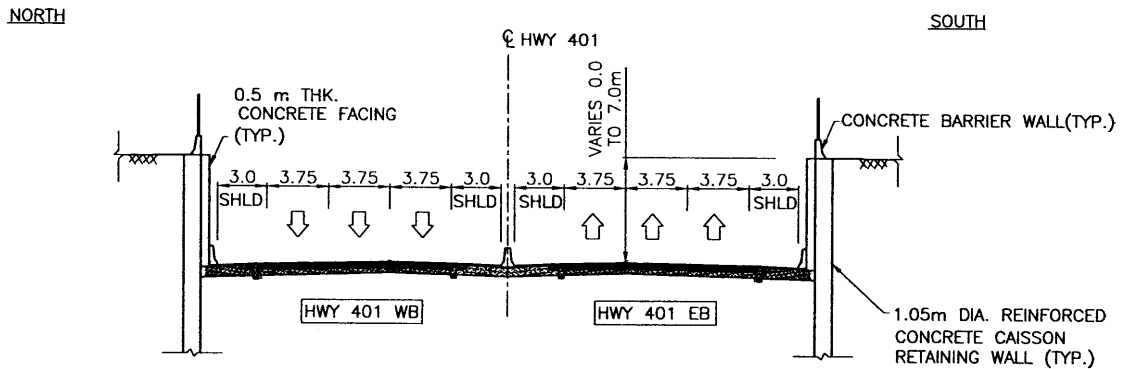
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STRUCTURAL PLANNING SHEET

W.O.NO.	----	CORRIDOR	HC-T	ROUTE	ALIGNMENT ALTERNATIVE 1A
STRUCTURE I.D.	1A-20	SITE NO.	----	LOCATION	HWY 401 AT EAST OF HOWARD AVENUE
STRUCTURE NAME	APPROACH RAMP OF HWY 401 AT EAST OF HOWARD AVENUE			<input type="checkbox"/> EXISTING <input checked="" type="checkbox"/> NEW	<input type="checkbox"/> OVERPASS <input type="checkbox"/> UNDERPASS <input checked="" type="checkbox"/> BELOW GRADE HWY <input checked="" type="checkbox"/> APPROACH RAMP
STRUCTURE DESCRIPTION	BOAT SECTION WITH CAISSON RETAINING WALLS OF VARIABLE HEIGHTS				



ELEVATION SKETCH
1:400



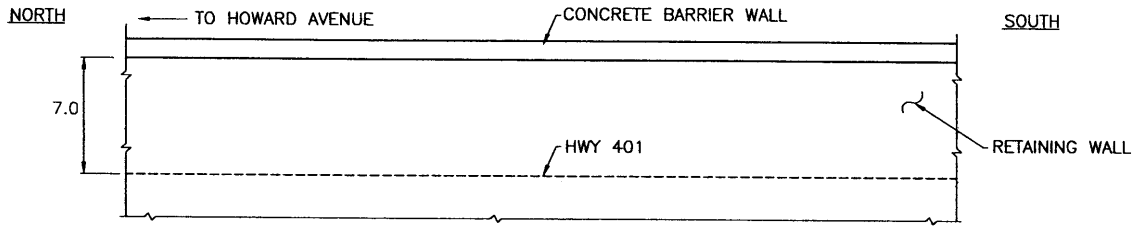
CROSS-SECTION SKETCH
1:400

LENGTH (m)	500		WIDTH (m)	----	
STRUCTURAL DEPTH (m)	----		SPAN/DEPTH RATIO	----	
SKEW ANGLE	----		VERTICAL CLEARANCE (m)	----	
UNIT PRICE (\$/m)	NEW STRUCTURE	30,000	ESTIMATED COST (\$)	15,000,000	
	REHABILITATION	----			
COMMENTS (SPECIAL CONSTRUCTION & DESIGN FEATURES)	----				
NAME OF CONSULTANT (FOR PLANNING)	URS CANADA INC.		DATE	MAY 2007	

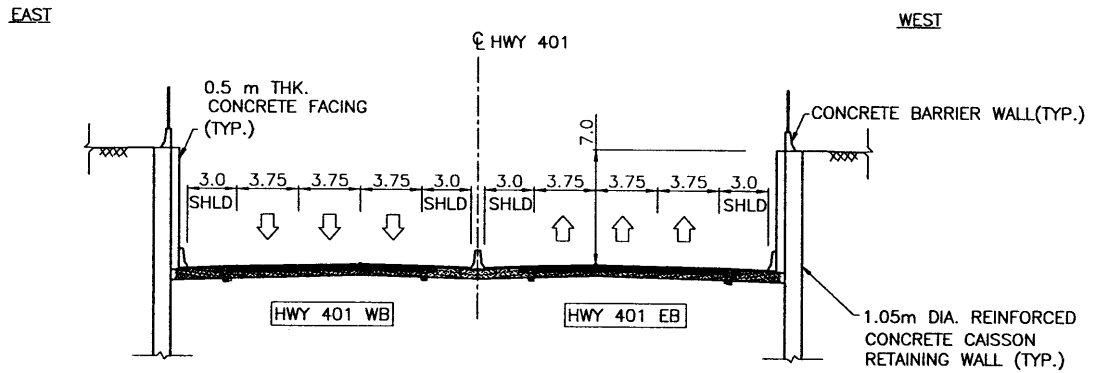
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STRUCTURAL PLANNING SHEET

W.O.NO.	----	CORRIDOR	HC-T	ROUTE	ALIGNMENT ALTERNATIVE 1A
STRUCTURE I.D.	1A-21	SITE NO.	----	LOCATION	HWY 401 UNDER HOWARD AVENUE
STRUCTURE NAME	BELOW GRADE HWY 401 AT HOWARD AVENUE			<input type="checkbox"/> EXISTING <input checked="" type="checkbox"/> NEW	<input type="checkbox"/> OVERPASS <input checked="" type="checkbox"/> BELOW GRADE HWY <input type="checkbox"/> UNDERPASS <input type="checkbox"/> APPROACH RAMP
STRUCTURE DESCRIPTION	BOAT SECTION WITH CAISSON RETAINING WALLS OF UNIFORM HEIGHTS				



ELEVATION SKETCH
1:400



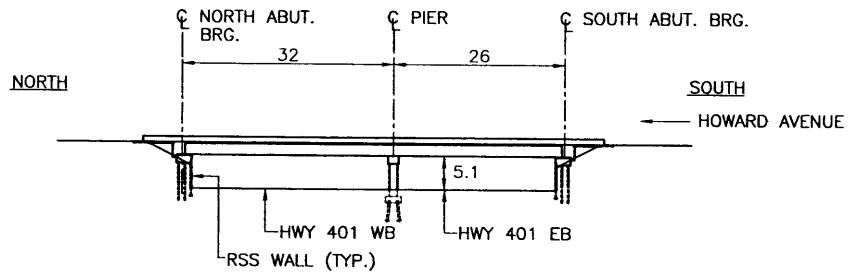
CROSS-SECTION SKETCH
1:400

LENGTH (m)	93	WIDTH (m)	----
STRUCTURAL DEPTH (m)	----	SPAN/DEPTH RATIO	----
SKEW ANGLE	----	VERTICAL CLEARANCE (m)	----
UNIT PRICE (\$/m)	NEW STRUCTURE	45,000	ESTIMATED COST (\$) 4,185,000
	REHABILITATION	----	
COMMENTS (SPECIAL CONSTRUCTION & DESIGN FEATURES)	----		
NAME OF CONSULTANT (FOR PLANNING)	URS CANADA INC.	DATE	MAY 2007

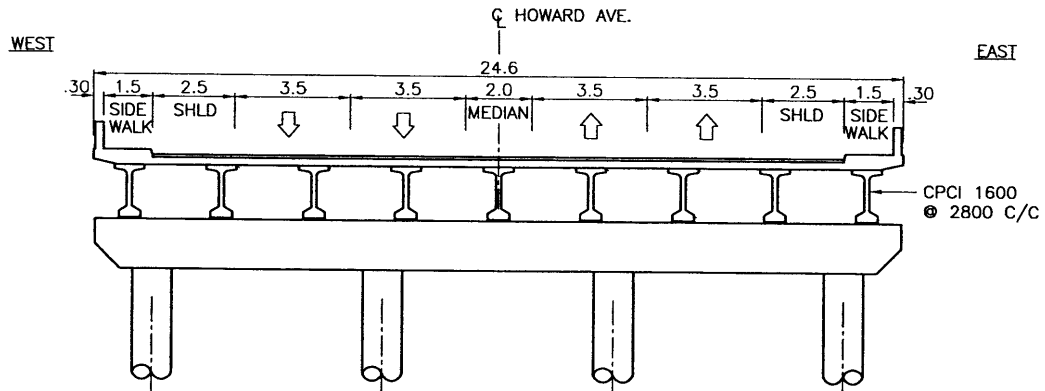
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STRUCTURAL PLANNING SHEET

W.O.NO.	----	CORRIDOR	HC-T	ROUTE	ALIGNMENT ALTERNATIVE 1A
STRUCTURE I.D.	1A-22	SITE NO.	----	LOCATION	HOWARD AVENUE OVER HWY 401
BRIDGE NAME	HOWARD AVENUE UNDERPASS			<input type="checkbox"/> EXISTING <input checked="" type="checkbox"/> NEW	<input type="checkbox"/> OVERPASS <input checked="" type="checkbox"/> UNDERPASS <input type="checkbox"/> BELOW GRADE HWY <input type="checkbox"/> APPROACH RAMP
STRUCTURE DESCRIPTION	TWO SPANS CPCI 1600 GIRDERS ON SEMI-INTEGRAL ABUTMENTS WITH RSS WALL.				



ELEVATION SKETCH
1:1000



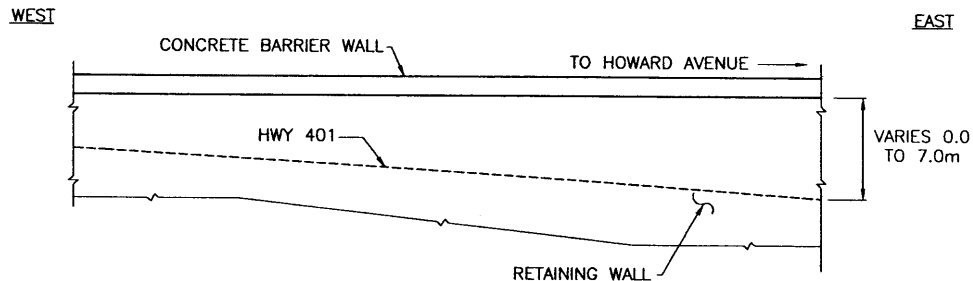
CROSS-SECTION SKETCH
1:200

LENGTH (m)	58	WIDTH (m)	24.60
STRUCTURAL DEPTH (m)	1.9	SPAN/DEPTH RATIO	17
SKEW ANGLE	30°	VERTICAL CLEARANCE (m)	5.1
UNIT PRICE (\$/m ²)	NEW STRUCTURE	2,200	ESTIMATED COST (\$) 3,139,000
	REHABILITATION	----	
COMMENTS (SPECIAL CONSTRUCTION & DESIGN FEATURES)	<ul style="list-style-type: none"> - OUTER SURFACE OF RSS WALL OF ABUTMENTS TO MATCH THE RW OF DEPRESSED HWY 401 ON EITHER SIDE OF THE BRIDGE CROSSING. - SEMI-INTEGRAL ABUTMENTS DUE TO 30° SKEW. 		
NAME OF CONSULTANT (FOR PLANNING)	URS CANADA INC.	DATE	MAY 2007

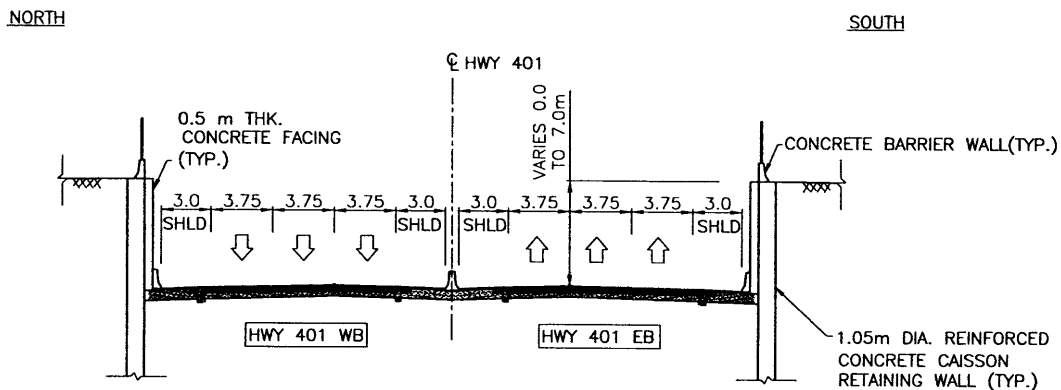
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 PLOT DATE: Aug 06, 2007 - 11:43am

STRUCTURAL PLANNING SHEET

W.O.NO.	----	CORRIDOR	HC-T	ROUTE	ALIGNMENT ALTERNATIVE 1A
STRUCTURE I.D.	1A-23	SITE NO.	----	LOCATION	HWY 401 AT WEST OF HOWARD AVENUE
STRUCTURE NAME	APPROACH RAMP OF HWY 401 AT WEST OF HOWARD AVENUE			<input type="checkbox"/> EXISTING <input checked="" type="checkbox"/> NEW	<input type="checkbox"/> OVERPASS <input type="checkbox"/> UNDERPASS <input checked="" type="checkbox"/> APPROACH RAMP
STRUCTURE DESCRIPTION	BOAT SECTION WITH CAISSON RETAINING WALLS OF VARIABLE HEIGHTS				



ELEVATION SKETCH
1:400



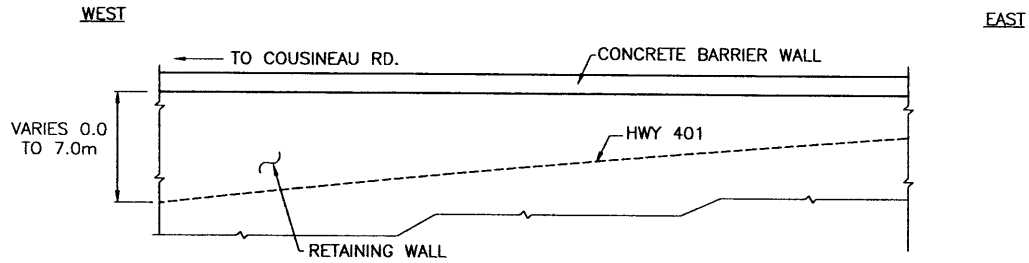
CROSS-SECTION SKETCH
1:400

LENGTH (m)	300	WIDTH (m)	----
STRUCTURAL DEPTH (m)	----	SPAN/DEPTH RATIO	----
SKEW ANGLE	----	VERTICAL CLEARANCE (m)	----
UNIT PRICE (\$/m)	NEW STRUCTURE	30,000	ESTIMATED COST (\$)
	REHABILITATION	----	
COMMENTS (SPECIAL CONSTRUCTION & DESIGN FEATURES)	----		
NAME OF CONSULTANT (FOR PLANNING)	URS CANADA INC.	DATE	MAY 2007

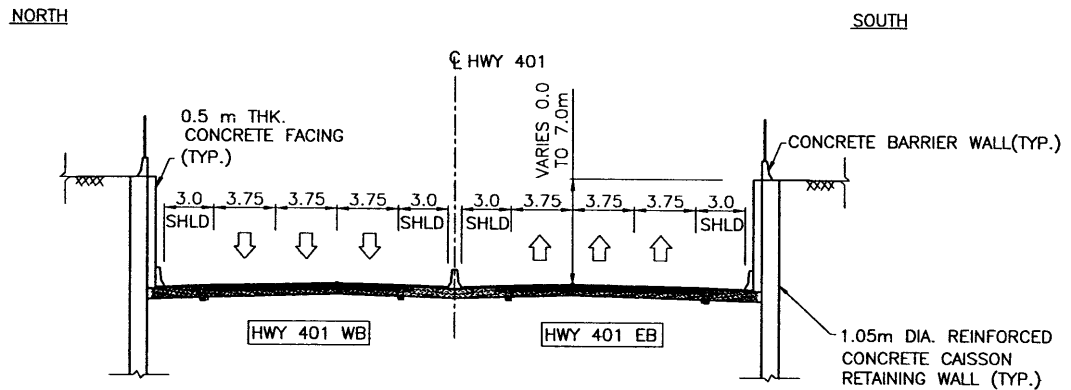
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STRUCTURAL PLANNING SHEET

W.O.NO.	----	CORRIDOR	HC-T	ROUTE	ALIGNMENT ALTERNATIVE 1A
STRUCTURE I.D.	1A-30	SITE NO.	----	LOCATION	HWY 401 AT EAST OF COUSINEAU ROAD
STRUCTURE NAME	APPROACH RAMP OF HWY 401 AT EAST OF COUSINEAU ROAD			<input type="checkbox"/> EXISTING <input checked="" type="checkbox"/> NEW	<input type="checkbox"/> OVERPASS <input type="checkbox"/> UNDERPASS
STRUCTURE DESCRIPTION	BOAT SECTION WITH CAISSON RETAINING WALLS OF VARIABLE HEIGHTS				



ELEVATION SKETCH
1:400



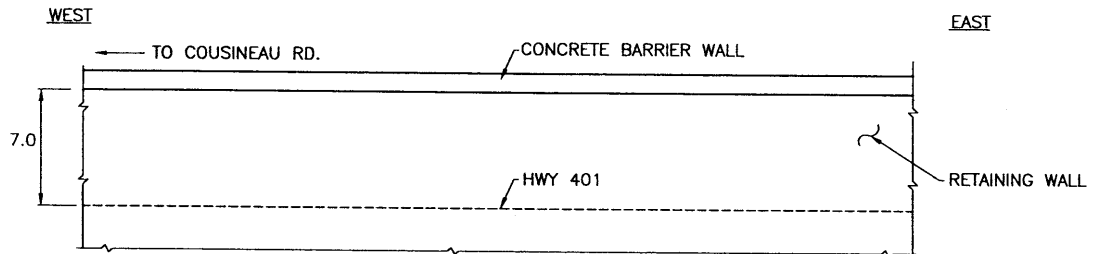
CROSS-SECTION SKETCH
1:400

LENGTH (m)	350		WIDTH (m)	----	
STRUCTURAL DEPTH (m)	----		SPAN/DEPTH RATIO	----	
SKEW ANGLE	----		VERTICAL CLEARANCE (m)	----	
UNIT PRICE (\$/m)	NEW STRUCTURE	30,000	ESTIMATED COST (\$)	10,500,000	
	REHABILITATION	----			
COMMENTS (SPECIAL CONSTRUCTION & DESIGN FEATURES)	- EXISTING SERVICE ROADS ON BOTH SIDES OF HIGHWAY 401 NEED TO BE RELOCATED.				
NAME OF CONSULTANT (FOR PLANNING)	URS CANADA INC.		DATE	MAY 2007	

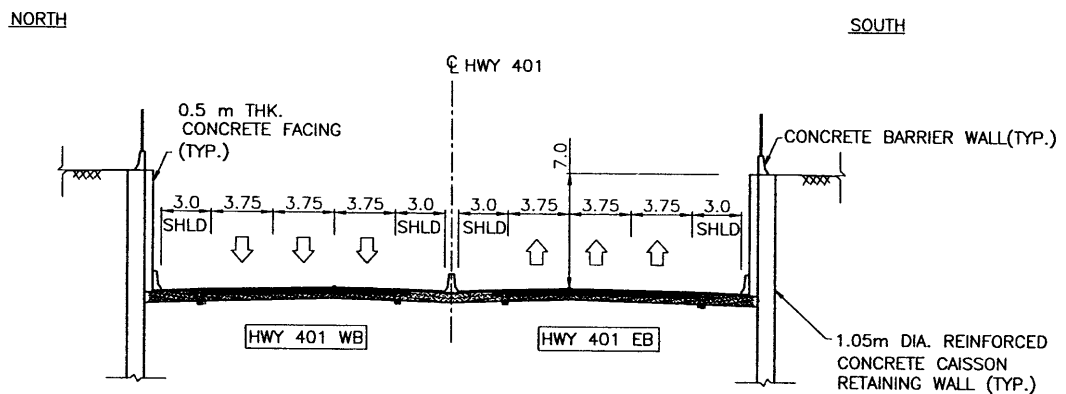
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 PLOTDATE:Aug 06, 2007 - 11:43am

STRUCTURAL PLANNING SHEET

W.O.NO.	----	CORRIDOR	HC-T	ROUTE	ALIGNMENT ALTERNATIVE 1A
STRUCTURE I.D.	1A-31	SITE NO.	----	LOCATION	HWY 401 NEAR COUSINEAU ROAD
STRUCTURE NAME	BELOW GRADE HWY 401 NEAR COUSINEAU ROAD			<input type="checkbox"/> EXISTING <input checked="" type="checkbox"/> NEW	<input type="checkbox"/> OVERPASS <input type="checkbox"/> UNDERPASS <input checked="" type="checkbox"/> BELOW GRADE HWY <input type="checkbox"/> APPROACH RAMP
STRUCTURE DESCRIPTION	BOAT SECTION WITH CAISSON RETAINING WALLS OF UNIFORM HEIGHTS				



ELEVATION SKETCH
1:400



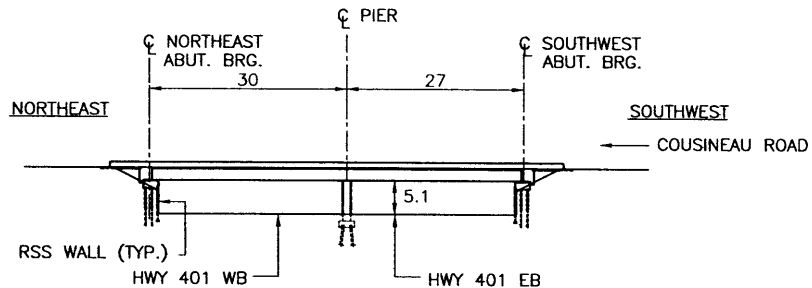
CROSS-SECTION SKETCH
1:400

LENGTH (m)	508		WIDTH (m)	----
STRUCTURAL DEPTH (m)	----		SPAN/DEPTH RATIO	----
SKEW ANGLE	----		VERTICAL CLEARANCE (m)	----
UNIT PRICE (\$/m)	NEW STRUCTURE	45,000	ESTIMATED COST (\$)	22,860,000
	REHABILITATION	----		
COMMENTS (SPECIAL CONSTRUCTION & DESIGN FEATURES)	- EXISTING SERVICE ROADS ON BOTH SIDES OF HIGHWAY 401 NEED TO BE RELOCATED.			
NAME OF CONSULTANT (FOR PLANNING)	URS CANADA INC.		DATE	MAY 2007

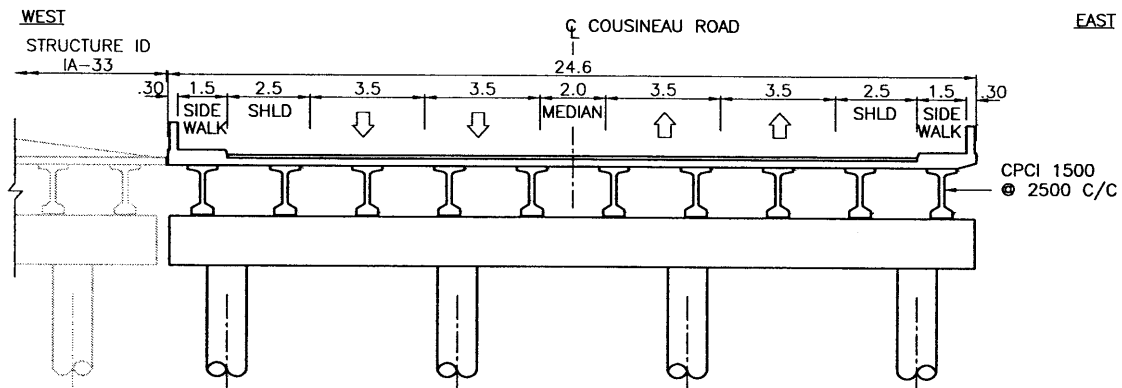
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STRUCTURAL PLANNING SHEET

W.O.NO.	----	CORRIDOR	HC-T	ROUTE	ALIGNMENT ALTERNATIVE 1A
STRUCTURE I.D.	1A-32	SITE NO.	----	LOCATION	COUSINEAU ROAD OVER HWY 401
BRIDGE NAME	COUSINEAU ROAD UNDERPASS			<input type="checkbox"/> EXISTING <input checked="" type="checkbox"/> NEW	<input type="checkbox"/> OVERPASS <input type="checkbox"/> BELOW GRADE HWY <input checked="" type="checkbox"/> UNDERPASS <input type="checkbox"/> APPROACH RAMP
STRUCTURE DESCRIPTION	TWO SPANS, CPCI 1500 GIRDERS ON SEMI-INTEGRAL ABUTMENTS WITH RSS WALL				



ELEVATION SKETCH
1:1000



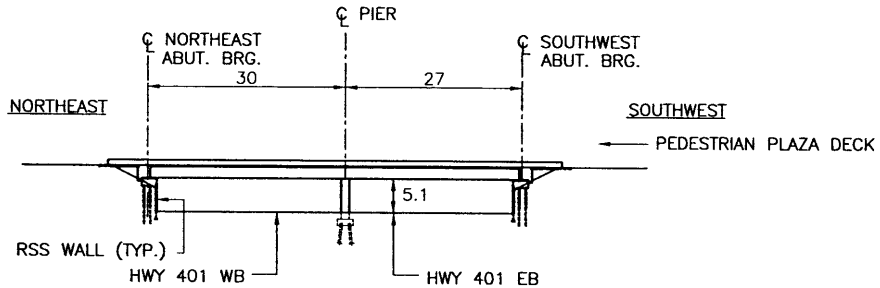
CROSS-SECTION SKETCH
1:200

LENGTH (m)	57	WIDTH (m)	24.60
STRUCTURAL DEPTH (m)	1.8	SPAN/DEPTH RATIO	17
SKEW ANGLE	30°	VERTICAL CLEARANCE (m)	5.1
UNIT PRICE (\$/m ²)	NEW STRUCTURE	2,200	ESTIMATED COST (\$) 3,085,000
	REHABILITATION	----	
COMMENTS (SPECIAL CONSTRUCTION & DESIGN FEATURES)	<ul style="list-style-type: none"> - OUTER SURFACE OF RSS WALL OF ABUTMENTS TO MATCH THE RW OF DEPRESSED HWY 401 ON EITHER SIDE OF THE BRIDGE CROSSING. - SEMI-INTEGRAL ABUTMENTS DUE TO 30° SKEW. 		
NAME OF CONSULTANT (FOR PLANNING)	URS CANADA INC.	DATE	MAY 2007

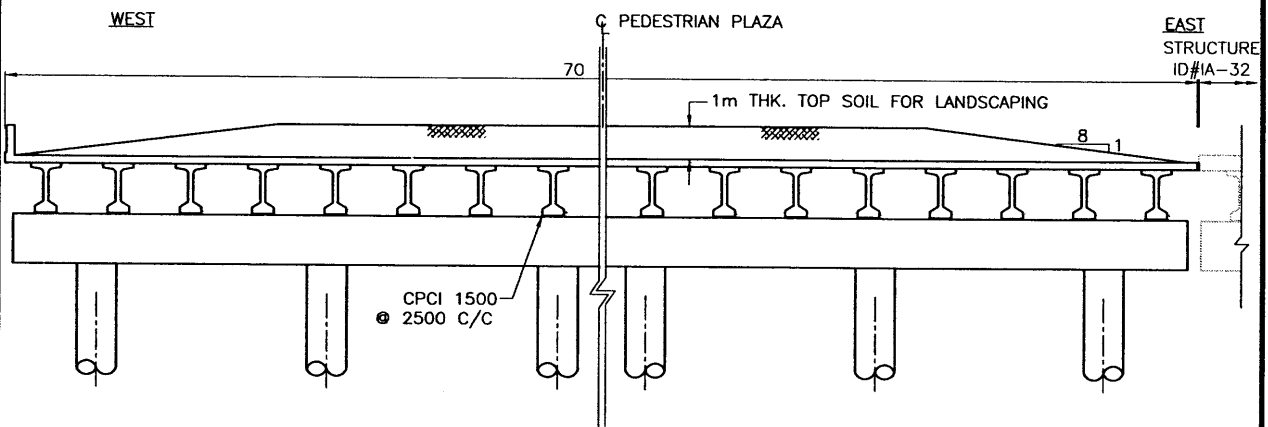
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 PLOTDATE: July 05, 2007 11:43am

STRUCTURAL PLANNING SHEET

W.O.NO.	----	CORRIDOR	HC-T	ROUTE	ALIGNMENT ALTERNATIVE 1A
STRUCTURE I.D.	1A-33	SITE NO.	----	LOCATION	PEDESTRIAN DECK PLAZA CROSSING HWY 401 NEAR COUSINEAU
BRIDGE NAME	PEDESTRIAN PLAZA AT COUSINEAU ROAD			<input type="checkbox"/> EXISTING <input checked="" type="checkbox"/> NEW	<input type="checkbox"/> OVERPASS <input type="checkbox"/> BELOW GRADE HWY <input checked="" type="checkbox"/> UNDERPASS <input type="checkbox"/> APPROACH RAMP
STRUCTURE DESCRIPTION	TWO SPANS CPCI 1500 GIRDERS ON SEMI-INTEGRAL ABUTMENTS WITH RSS WALL				



ELEVATION SKETCH
1:1000



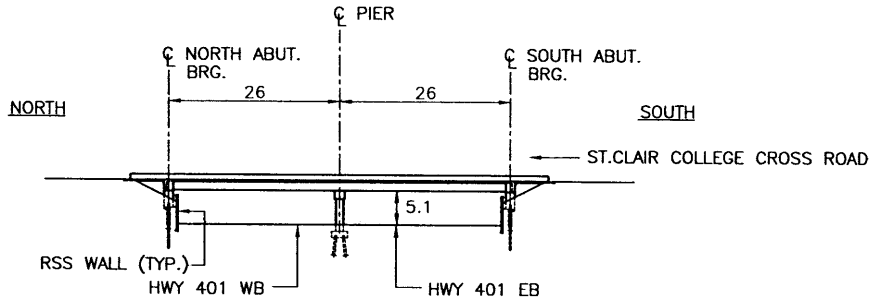
CROSS-SECTION SKETCH
1:200

LENGTH (m)	57	WIDTH (m)	70
STRUCTURAL DEPTH (m)	1.8	SPAN/DEPTH RATIO	17
SKEW ANGLE	30°	VERTICAL CLEARANCE (m)	5.1
UNIT PRICE (\$/m ²)	NEW STRUCTURE	2,200	ESTIMATED COST (\$) 8,778,000
	REHABILITATION	----	
COMMENTS (SPECIAL CONSTRUCTION & DESIGN FEATURES)	<ul style="list-style-type: none"> - OUTER SURFACE OF RSS WALL OF ABUTMENTS TO MATCH THE RW OF DEPRESSED HWY 401 ON EITHER SIDE OF THE BRIDGE CROSSING. - SEMI-INTEGRAL ABUTMENTS DUE TO 30° SKEW. 		
NAME OF CONSULTANT (FOR PLANNING)	URS CANADA INC.	DATE	MAY 2007

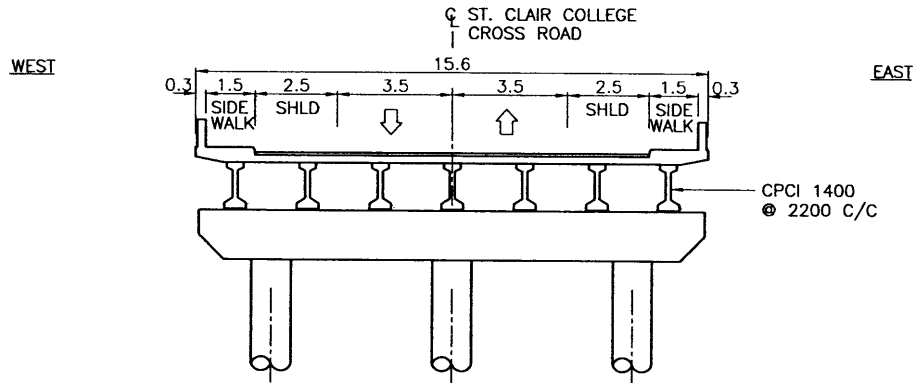
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 PLOTDATE:Aug 06, 2007 - 11:43am

STRUCTURAL PLANNING SHEET

W.O.NO.	----	CORRIDOR	HC-T	ROUTE	ALIGNMENT ALTERNATIVE 1A
STRUCTURE I.D.	1A-34	SITE NO.	----	LOCATION	ST.CLAIR COLLEGE ROAD ABOVE HWY 401
BRIDGE NAME	ST.CLAIR COLLEGE ROAD UNDERPASS			<input type="checkbox"/> EXISTING <input checked="" type="checkbox"/> NEW	<input type="checkbox"/> OVERPASS <input type="checkbox"/> BELOW GRADE HWY <input checked="" type="checkbox"/> UNDERPASS <input type="checkbox"/> APPROACH RAMP
STRUCTURE DESCRIPTION	TWO SPANS CPCI 1400 GIRDERS ON INTEGRAL ABUTMENTS WITH RSS WALL				



ELEVATION SKETCH
1:1000



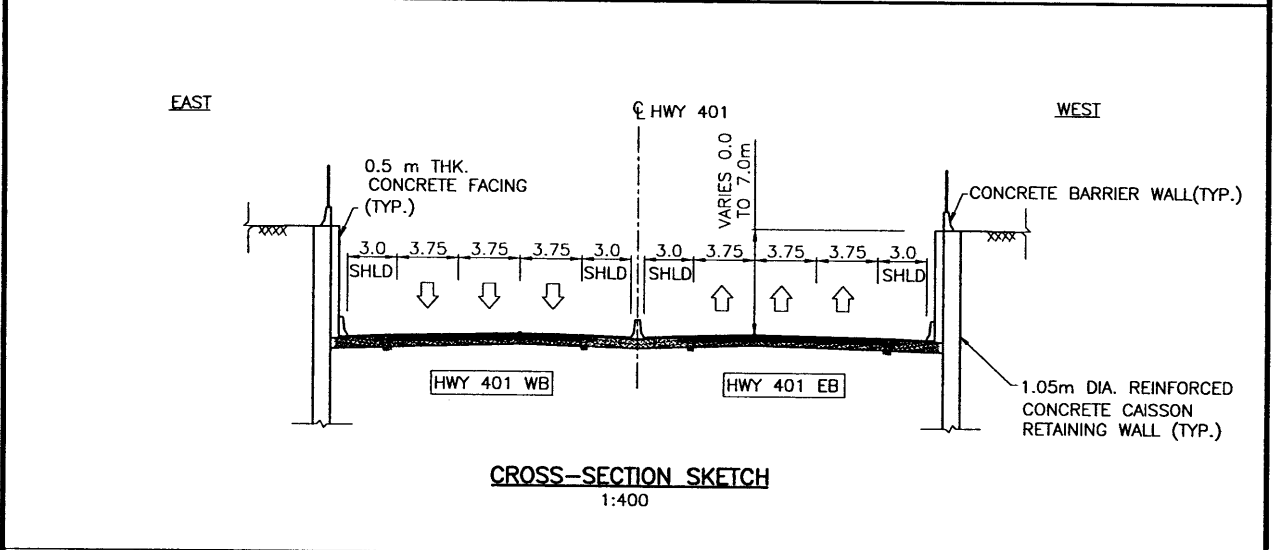
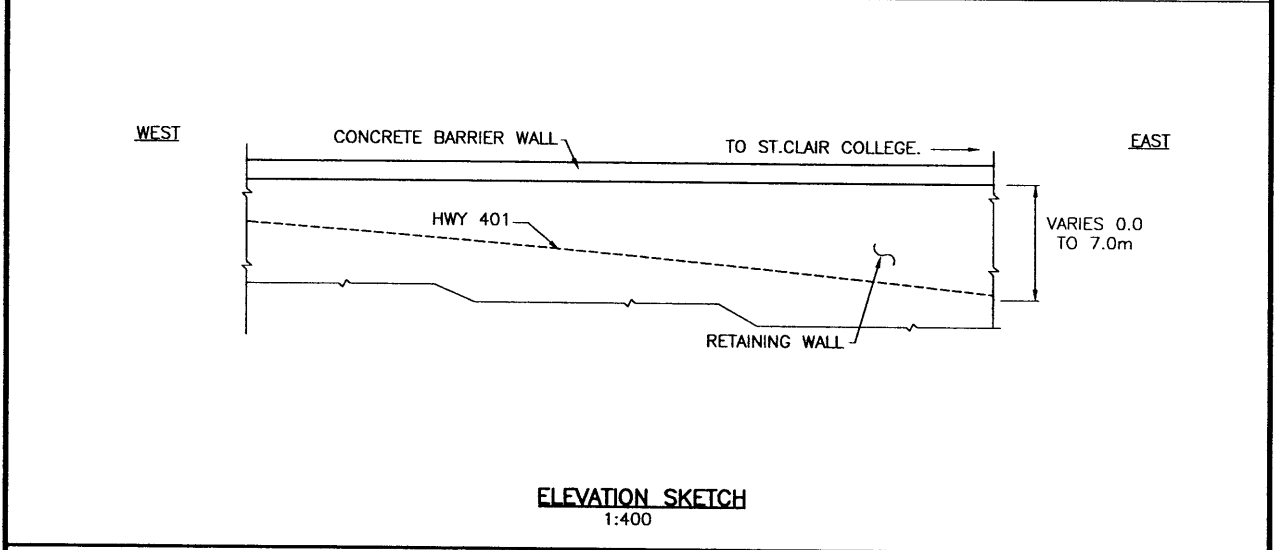
CROSS-SECTION SKETCH
1:200

LENGTH (m)	52	WIDTH (m)	15.60
STRUCTURAL DEPTH (m)	1.7	SPAN/DEPTH RATIO	16
SKEW ANGLE	NO	VERTICAL CLEARANCE (m)	5.1
UNIT PRICE (\$/m ²)	NEW STRUCTURE	2,100	ESTIMATED COST (\$) 1,704,000
	REHABILITATION	----	
COMMENTS (SPECIAL CONSTRUCTION & DESIGN FEATURES)	OUTER SURFACE RSS WALL OF ABUTMENTS TO MATCH THE RW OF DEPRESSED HWY 401 ON EITHER SIDE OF THE BRIDGE CROSSING ADDITIONAL S.C.L. MAY BE REQUIRED FOR HIGHER TRAFFIC FOR DESIGN YEAR 2035. THE TRAFFIC REQUIREMENTS ARE CURRENTLY BEING REVIEWED.		
NAME OF CONSULTANT (FOR PLANNING)	URS CANADA INC.	DATE	MAY 2007

FILENAME: D:\DRIC\18_Structural\CADD\Planning_Sheeta\ Hwy Alternatives\2007\ Bridge--AK--07--July 18--2007\REVISIONS.dwg
 PLOT DATE: Aug 06, 2007 - 11:44am

STRUCTURAL PLANNING SHEET

W.O.NO.	----	CORRIDOR	HC-T	ROUTE	ALIGNMENT ALTERNATIVE 1A
STRUCTURE I.D.	1A-35	SITE NO.	----	LOCATION	HWY 401 AT WEST OF ST.CLAIR COLLEGE
STRUCTURE NAME	APPROACH RAMP OF HWY 401 AT WEST OF ST.CLAIR COLLEGE ROAD			<input type="checkbox"/> EXISTING <input checked="" type="checkbox"/> NEW	<input type="checkbox"/> OVERPASS <input type="checkbox"/> UNDERPASS
STRUCTURE DESCRIPTION	BOAT SECTION WITH CAISSON RETAINING WALLS OF VARIABLE HEIGHTS				

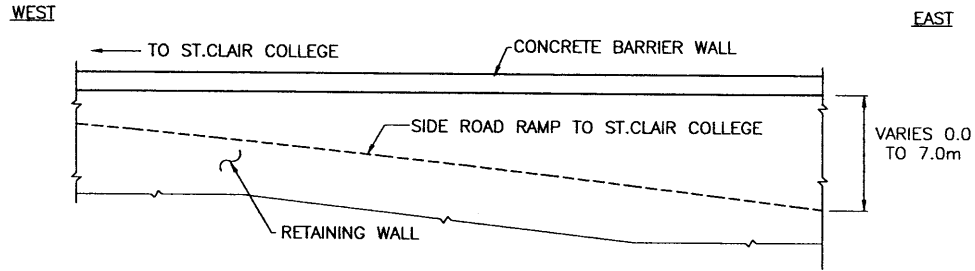


LENGTH (m)	250		WIDTH (m)	----	
STRUCTURAL DEPTH (m)	----		SPAN/DEPTH RATIO	----	
SKEW ANGLE	----		VERTICAL CLEARANCE (m)	----	
UNIT PRICE (\$/m)	NEW STRUCTURE	30,000	ESTIMATED COST (\$)	7,500,000	
	REHABILITATION	----			
COMMENTS (SPECIAL CONSTRUCTION & DESIGN FEATURES)	- EXISTING SERVICE ROADS ON BOTH SIDES OF HIGHWAY 401 NEED TO BE RELOCATED.				
NAME OF CONSULTANT (FOR PLANNING)	URS CANADA INC.		DATE	MAY 2007	

FILENAME: O:\DRIC\16_Structural\CADD\Planning_Sheets\Hwy Alternatives\2007\Bridge-Alt-07-July 18-2007\REVISIONS.dwg
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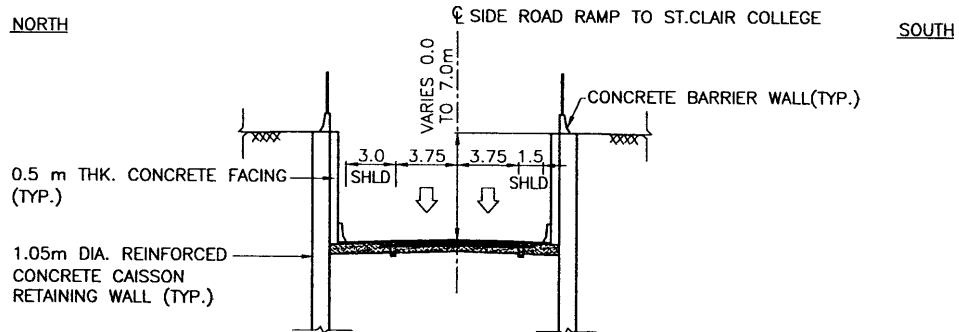
STRUCTURAL PLANNING SHEET

W.O.NO.	----	CORRIDOR	HC-T	ROUTE	ALIGNMENT ALTERNATIVE 1A
STRUCTURE I.D.	1A-37	SITE NO.	----	LOCATION	SIDE ROAD RAMPS TO HWY 401 AT WEST OF COUSINEAU ROAD
STRUCTURE NAME	APPROACH RAMPS (E-W & W-E) TO HWY 401 AT WEST OF COUSINEAU ROAD			<input type="checkbox"/> EXISTING <input checked="" type="checkbox"/> NEW	<input type="checkbox"/> OVERPASS <input type="checkbox"/> UNDERPASS <input checked="" type="checkbox"/> APPROACH RAMP
STRUCTURE DESCRIPTION	BOAT SECTION WITH CAISSON RETAINING WALLS OF VARIABLE HEIGHTS				



NOTE : SIDE ROAD RAMP (E-W) TO ST.CLAIR COLLEGE IS SHOWN.
 SIDE ROAD RAMP (W-E) TO HWY 401 EB IS SIMILAR WITH DIFFERENT ORIENTATION.

ELEVATION SKETCH
1:400



NOTE : SIDE ROAD RAMP (E-W) TO ST.CLAIR COLLEGE IS SHOWN.
 SIDE ROAD RAMP (W-E) TO HWY 401 EB IS SIMILAR WITH DIFFERENT ORIENTATION.

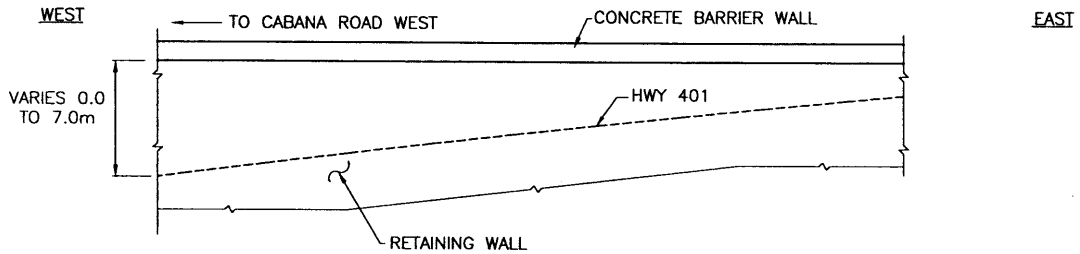
CROSS-SECTION SKETCH
1:400

LENGTH (m)	480	WIDTH (m)	----
STRUCTURAL DEPTH (m)	----	SPAN/DEPTH RATIO	----
SKEW ANGLE	----	VERTICAL CLEARANCE (m)	----
UNIT PRICE (\$/m)	NEW STRUCTURE	30,000	ESTIMATED COST (\$) 14,400,000
	REHABILITATION	----	
COMMENTS (SPECIAL CONSTRUCTION & DESIGN FEATURES)	----		
NAME OF CONSULTANT (FOR PLANNING)	URS CANADA INC.	DATE	JULY 2007

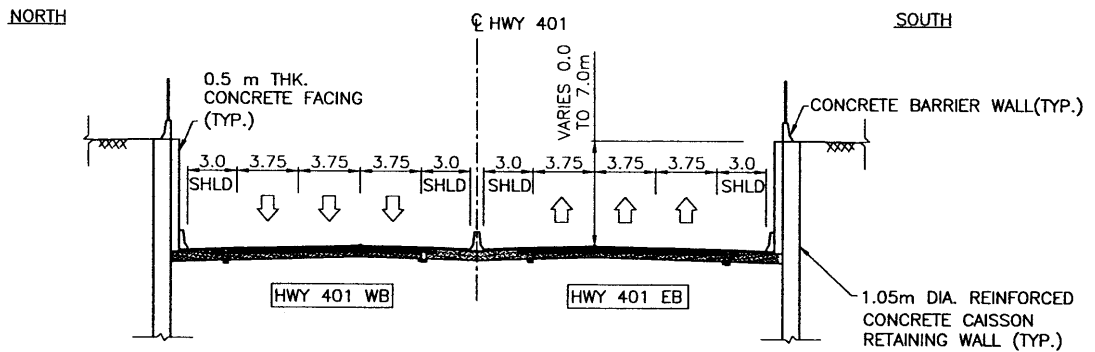
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 PLOT DATE: Aug 06, 2007 - 11:44am

STRUCTURAL PLANNING SHEET

W.O.NO.	----	CORRIDOR	HC-T	ROUTE	ALIGNMENT ALTERNATIVE 1A
STRUCTURE I.D.	1A-40	SITE NO.	----	LOCATION	HWY 401 EAST OF CABANA ROAD WEST/TODD LANE
STRUCTURE NAME	APPROACH RAMP OF HWY 401 AT EAST OF CABANA ROAD WEST			<input type="checkbox"/> EXISTING <input checked="" type="checkbox"/> NEW	<input type="checkbox"/> OVERPASS <input type="checkbox"/> UNDERPASS <input checked="" type="checkbox"/> BELOW GRADE HWY <input checked="" type="checkbox"/> APPROACH RAMP
STRUCTURE DESCRIPTION	BOAT SECTION WITH CAISSON RETAINING WALLS OF VARIABLE HEIGHTS				



ELEVATION SKETCH
1:400



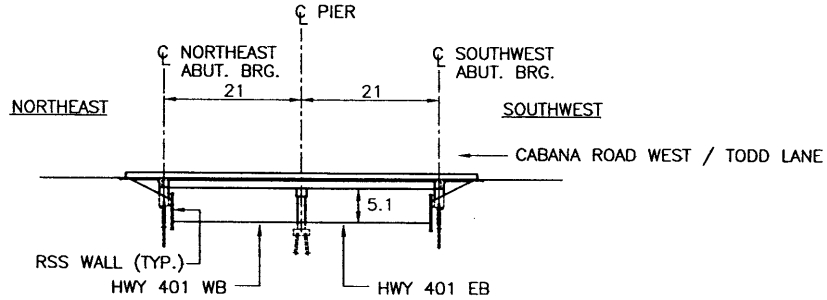
CROSS-SECTION SKETCH
1:400

LENGTH (m)	410		WIDTH (m)	----	
STRUCTURAL DEPTH (m)	----		SPAN/DEPTH RATIO	----	
SKEW ANGLE	----		VERTICAL CLEARANCE (m)	----	
UNIT PRICE (\$/m)	NEW STRUCTURE	30,000	ESTIMATED COST (\$)	12,300,000	
	REHABILITATION	----			
COMMENTS (SPECIAL CONSTRUCTION & DESIGN FEATURES)					
NAME OF CONSULTANT (FOR PLANNING)	URS CANADA INC.		DATE	MAY 2007	

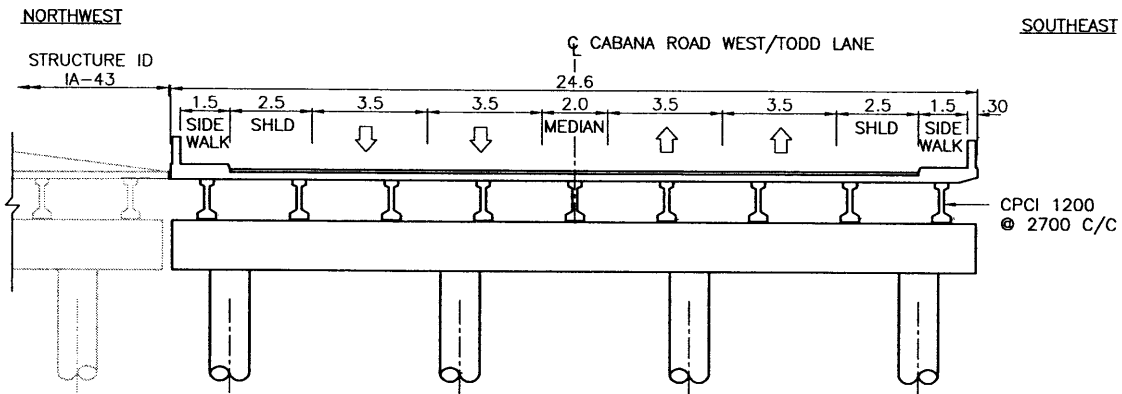
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 PLOTDATE: Aug 06, 2007 11:44am

STRUCTURAL PLANNING SHEET

W.O.NO.	----	CORRIDOR	HC-T	ROUTE	ALIGNMENT ALTERNATIVE 1A
STRUCTURE I.D.	1A-42	SITE NO.	----	LOCATION	CABANA ROAD WEST/TODD LANE ABOVE HWY 401
BRIDGE NAME	CABANA ROAD WEST UNDERPASS			<input type="checkbox"/> EXISTING <input checked="" type="checkbox"/> NEW	<input type="checkbox"/> OVERPASS <input type="checkbox"/> BELOW GRADE HWY <input checked="" type="checkbox"/> UNDERPASS <input type="checkbox"/> APPROACH RAMP
STRUCTURE DESCRIPTION	TWO SPANS CPCI 1200 GIRDERS ON INTEGRAL ABUTMENTS WITH RSS WALL				



ELEVATION SKETCH
1:1000



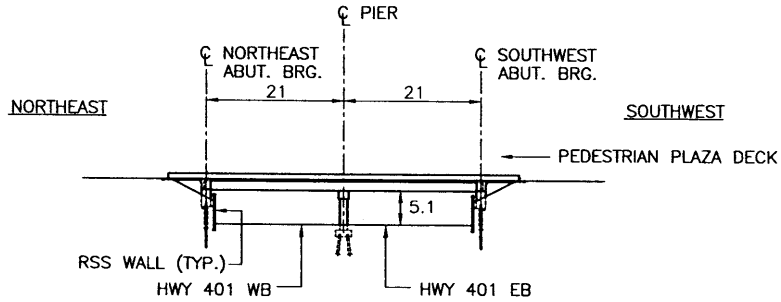
CROSS-SECTION SKETCH
1:200

LENGTH (m)	42	WIDTH (m)	24.60	
STRUCTURAL DEPTH (m)	1.5	SPAN/DEPTH RATIO	14	
SKEW ANGLE	5°	VERTICAL CLEARANCE (m)	5.1	
UNIT PRICE (\$/m ²)	NEW STRUCTURE	2,100	ESTIMATED COST (\$)	2,170,000
	REHABILITATION	----		
COMMENTS (SPECIAL CONSTRUCTION & DESIGN FEATURES)	OUTER SURFACE RSS WALL OF ABUTMENTS TO MATCH THE RW OF DEPRESSED HWY 401 ON EITHER SIDE OF THE BRIDGE CROSSING ADDITIONAL S.C.L. MAY BE REQUIRED FOR HIGHER TRAFFIC FOR DESIGN YEAR 2035. THE TRAFFIC REQUIREMENTS ARE CURRENTLY BEING REVIEWED.			
NAME OF CONSULTANT (FOR PLANNING)	URS CANADA INC.	DATE	JULY 2007	

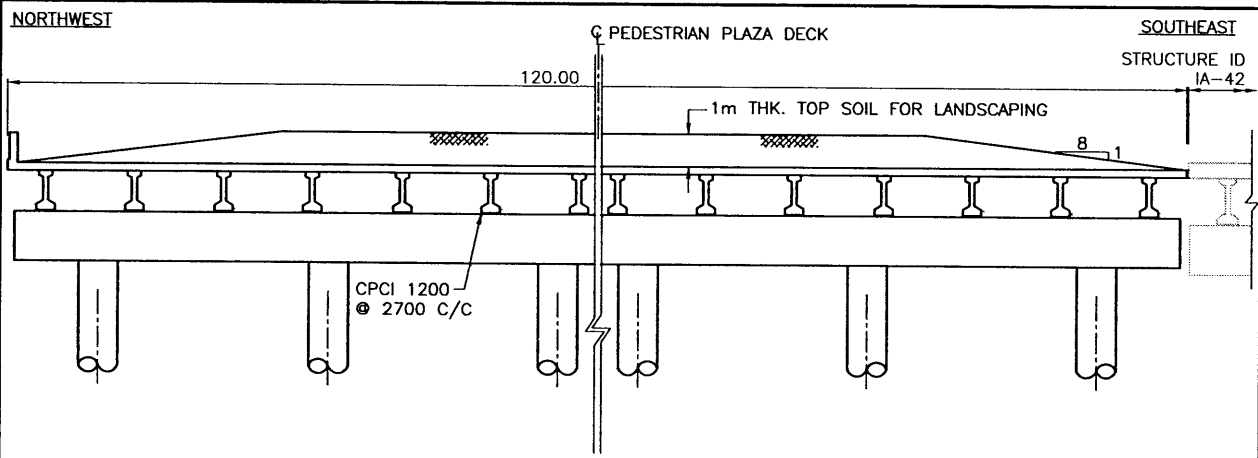
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 PLOT DATE: Aug 06, 2007 - 11:44am

STRUCTURAL PLANNING SHEET

W.O.NO.	----	CORRIDOR	HC-T	ROUTE	ALIGNMENT ALTERNATIVE 1A
STRUCTURE I.D.	1A-43	SITE NO.	----	LOCATION	HWY 401 NEAR CABANA ROAD WEST / TODD LANE (PEDESTAIAN PLAZA)
BRIDGE NAME	PEDESTRIAN PLAZA AT CABANA ROAD WEST			<input type="checkbox"/> EXISTING <input checked="" type="checkbox"/> NEW	<input type="checkbox"/> OVERPASS <input type="checkbox"/> BELOW GRADE HWY <input checked="" type="checkbox"/> UNDERPASS <input type="checkbox"/> APPROACH RAMP
STRUCTURE DESCRIPTION	TWO SPANS CPCI 1200 GIRDERS ON INTEGRAL ABUTMENTS WITH RSS WALL				



ELEVATION SKETCH
1:1000



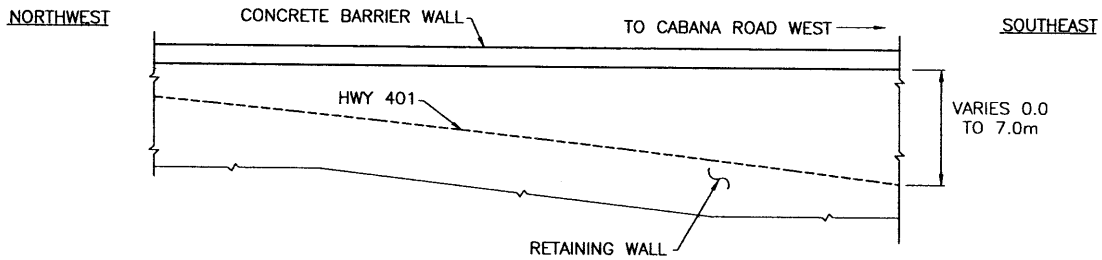
CROSS-SECTION SKETCH
1:200

LENGTH (m)	42	WIDTH (m)	120
STRUCTURAL DEPTH (m)	1.5	SPAN/DEPTH RATIO	14
SKEW ANGLE	5°	VERTICAL CLEARANCE (m)	5.1
UNIT PRICE (\$/m ²)	NEW STRUCTURE	2,100	ESTIMATED COST (\$) 10,584,000
	REHABILITATION	----	
COMMENTS (SPECIAL CONSTRUCTION & DESIGN FEATURES)	OUTER SURFACE RSS WALL OF ABUTMENTS TO MATCH THE RW OF DEPRESSED HWY 401 ON EITHER SIDE OF THE BRIDGE CROSSING		
NAME OF CONSULTANT (FOR PLANNING)	URS CANADA INC.	DATE	MAY 2007

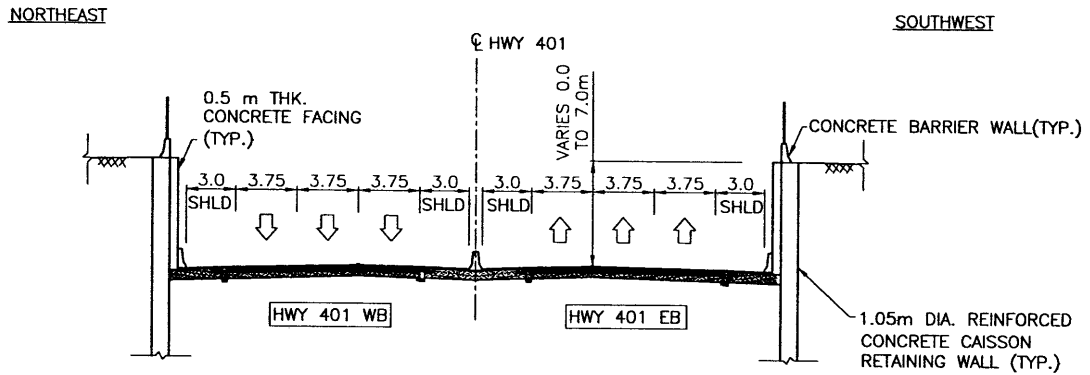
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STRUCTURAL PLANNING SHEET

W.O.NO.	----	CORRIDOR	HC-T	ROUTE	ALIGNMENT ALTERNATIVE 1A
STRUCTURE I.D.	1A-44	SITE NO.	----	LOCATION	HWY 401 AT WEST OF CABANA ROAD WEST/ TODD LANE
STRUCTURE NAME	APPROACH RAMP OF HWY 401 AT WEST OF CABANA ROAD WEST		<input type="checkbox"/> EXISTING <input checked="" type="checkbox"/> NEW		<input type="checkbox"/> OVERPASS <input type="checkbox"/> UNDERPASS <input type="checkbox"/> BELOW GRADE HWY <input checked="" type="checkbox"/> APPROACH RAMP
STRUCTURE DESCRIPTION	BOAT SECTION WITH CAISSON RETAINING WALLS OF VARIABLE HEIGHTS				



ELEVATION SKETCH
1:400



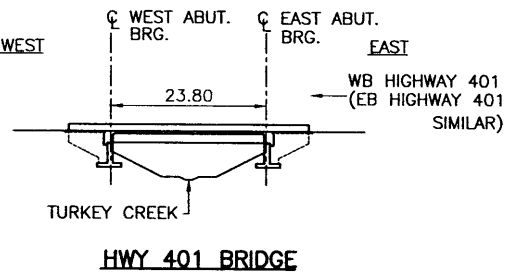
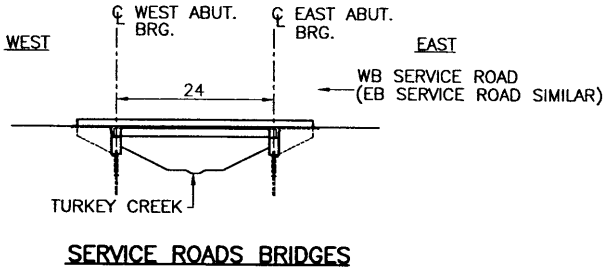
CROSS-SECTION SKETCH
1:400

LENGTH (m)	375	WIDTH (m)	----
STRUCTURAL DEPTH (m)	----	SPAN/DEPTH RATIO	----
SKEW ANGLE	----	VERTICAL CLEARANCE (m)	----
UNIT PRICE (\$/m)	NEW STRUCTURE	30,000	ESTIMATED COST (\$)
	REHABILITATION	----	
COMMENTS (SPECIAL CONSTRUCTION & DESIGN FEATURES)			
NAME OF CONSULTANT (FOR PLANNING)	URS CANADA INC.	DATE	MAY 2007

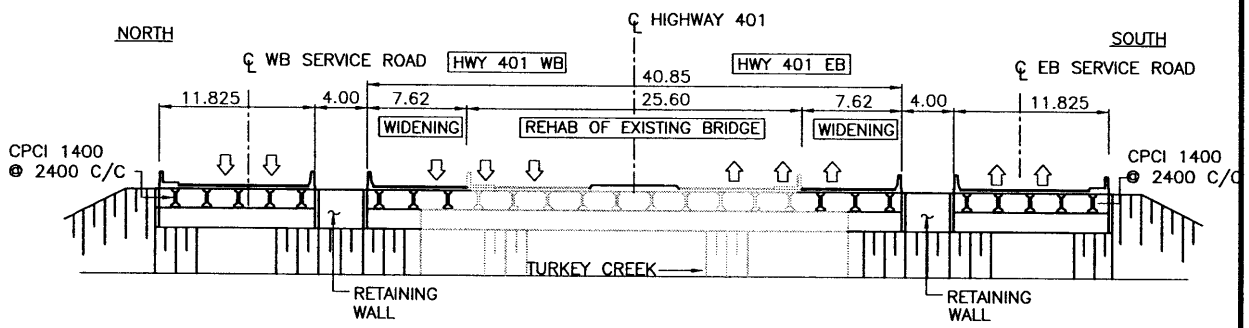
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 PLOTDATE: Aug 06, 2007 - 11:44am

STRUCTURAL PLANNING SHEET

W.O.NO.	----	CORRIDOR	HC-T	ROUTE	ALIGNMENT ALTERNATIVE 1A
STRUCTURE I.D.	1A-50	SITE NO.	----	LOCATION	HWY 401 CROSSING OVER TURKEY CREEK
BRIDGE NAME	TURKEY CREEK BRIDGE			<input checked="" type="checkbox"/> EXISTING <input checked="" type="checkbox"/> NEW	<input checked="" type="checkbox"/> OVERPASS <input type="checkbox"/> BELOW GRADE HWY <input type="checkbox"/> UNDERPASS <input type="checkbox"/> APPROACH RAMP
STRUCTURE DESCRIPTION	SINGLE SPAN CPCI 1400 GIRDERS WITH INTEGRAL ABUTMENTS (NEW STRUCTURE)				



ELEVATION SKETCH
1:1000

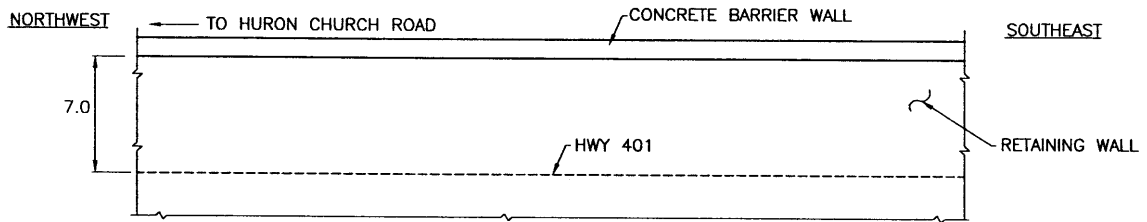


LENGTH (m)	24	WIDTH (m)	38.89 (NEW) 25.6 (REHAB)
STRUCTURAL DEPTH (m)	1.7	SPAN/DEPTH RATIO	17
SKEW ANGLE	NO	VERTICAL CLEARANCE (m)	--
UNIT PRICE (\$/m ²)	NEW STRUCTURE REHABILITATION	2,750 (AVERAGE COST)	ESTIMATED COST (\$) 4,256,000
COMMENTS (SPECIAL CONSTRUCTION & DESIGN FEATURES)	- CROSSING OVER TURKEY CREEK - EXISTING TURKEY CREEK REHABILITATED AND WIDENED FOR HIGHWAY 401 - TWO NEW BRIDGES OF WB AND EB SERVICE ROADS.		
NAME OF CONSULTANT (FOR PLANNING)	URS CANADA INC.	DATE	JULY 2007

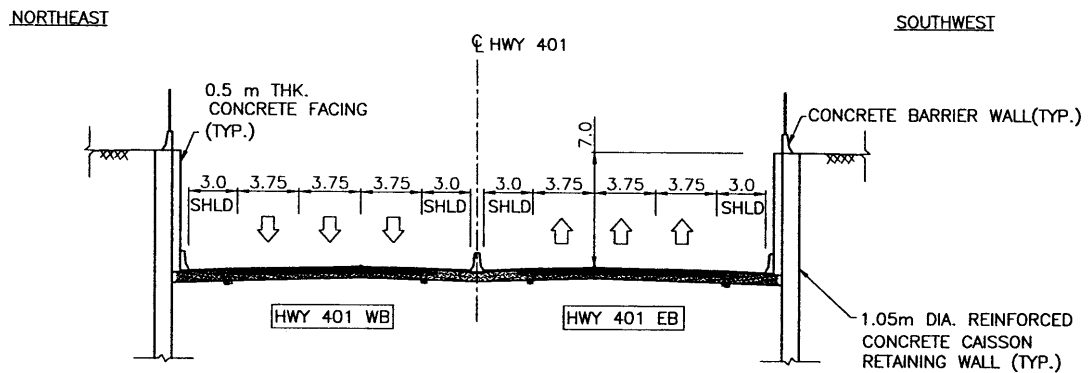
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 PLOTDATE: Aug 06, 2007 - 11:44am

STRUCTURAL PLANNING SHEET

W.O.NO.	----	CORRIDOR	HC-T	ROUTE	ALIGNMENT ALTERNATIVE 1A
STRUCTURE I.D.	1A-61	SITE NO.	----	LOCATION	HWY 401 AT JUST SOUTH OF HURON CHURCH ROAD
STRUCTURE NAME	BELOW GRADE HWY 401 AT SOUTH OF HURON CHURCH ROAD			<input type="checkbox"/> EXISTING <input checked="" type="checkbox"/> NEW	<input type="checkbox"/> OVERPASS <input checked="" type="checkbox"/> BELOW GRADE HWY <input type="checkbox"/> UNDERPASS <input type="checkbox"/> APPROACH RAMP
STRUCTURE DESCRIPTION	BOAT SECTION WITH CAISSON RETAINING WALLS OF UNIFORM HEIGHTS				



ELEVATION SKETCH
1:400



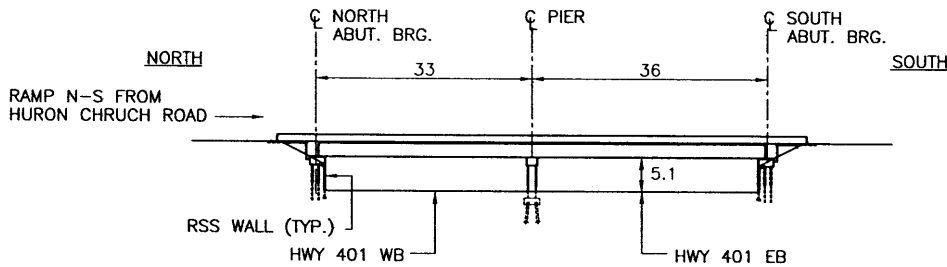
CROSS-SECTION SKETCH
1:400

LENGTH (m)	637	WIDTH (m)	----
STRUCTURAL DEPTH (m)	----	SPAN/DEPTH RATIO	----
SKEW ANGLE	----	VERTICAL CLEARANCE (m)	----
UNIT PRICE (\$/m)	NEW STRUCTURE	45,000	ESTIMATED COST (\$) 28,665,000
	REHABILITATION	----	
COMMENTS (SPECIAL CONSTRUCTION & DESIGN FEATURES)	----		
NAME OF CONSULTANT (FOR PLANNING)	URS CANADA INC.	DATE	MAY 2007

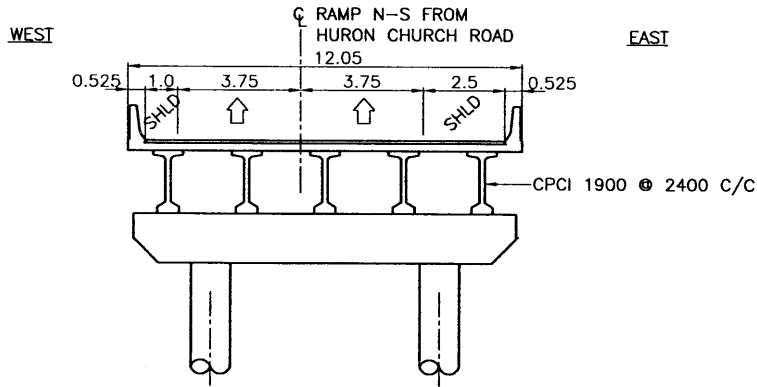
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 PLOTDATE: Aug 06, 2007 - 11:44am

STRUCTURAL PLANNING SHEET

W.O.NO.	----	CORRIDOR	HC-T	ROUTE	ALIGNMENT ALTERNATIVE 1A
STRUCTURE I.D.	1A-62	SITE NO.	----	LOCATION	HURON CHURCH ROAD RAMP N-S OVER HWY 401
BRIDGE NAME	HURON CHURCH ROAD RAMP N-S UNDERPASS			<input type="checkbox"/> EXISTING <input checked="" type="checkbox"/> NEW	<input type="checkbox"/> OVERPASS <input type="checkbox"/> BELOW GRADE HWY <input checked="" type="checkbox"/> UNDERPASS <input type="checkbox"/> APPROACH RAMP
STRUCTURE DESCRIPTION	TWO SPANS CPCI 1900 GIRDERS ON SEMI-INTEGRAL ABUTMENTS WITH RSS WALL				



ELEVATION SKETCH
1:1000



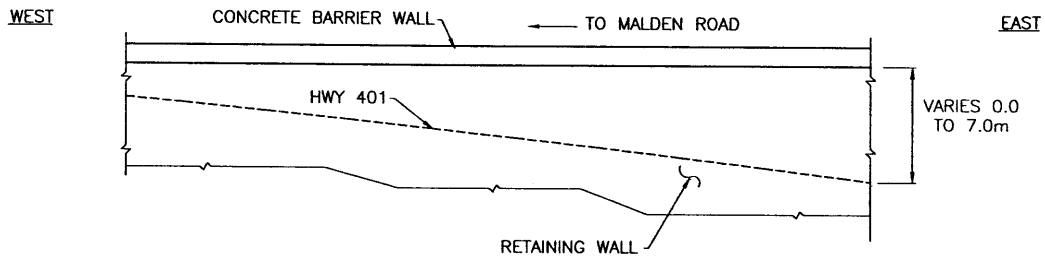
CROSS-SECTION SKETCH
1:200

LENGTH (m)	69	WIDTH (m)	12.05	
STRUCTURAL DEPTH (m)	2.2	SPAN/DEPTH RATIO	16	
SKEW ANGLE	35°	VERTICAL CLEARANCE (m)	5.1	
UNIT PRICE (\$/m ²)	NEW STRUCTURE	2,200	ESTIMATED COST (\$)	1,829,000
	REHABILITATION	----		
COMMENTS (SPECIAL CONSTRUCTION & DESIGN FEATURES)	<ul style="list-style-type: none"> - OUTER SURFACE OF RSS WALL OF ABUTMENTS TO MATCH THE RW OF DEPRESSED HWY 401 ON EITHER SIDE OF THE BRIDGE CROSSING. - SEMI-INTEGRAL ABUTMENTS DUE TO 35° SKEW. 			
NAME OF CONSULTANT (FOR PLANNING)	URS CANADA INC.	DATE	MAY 2007	

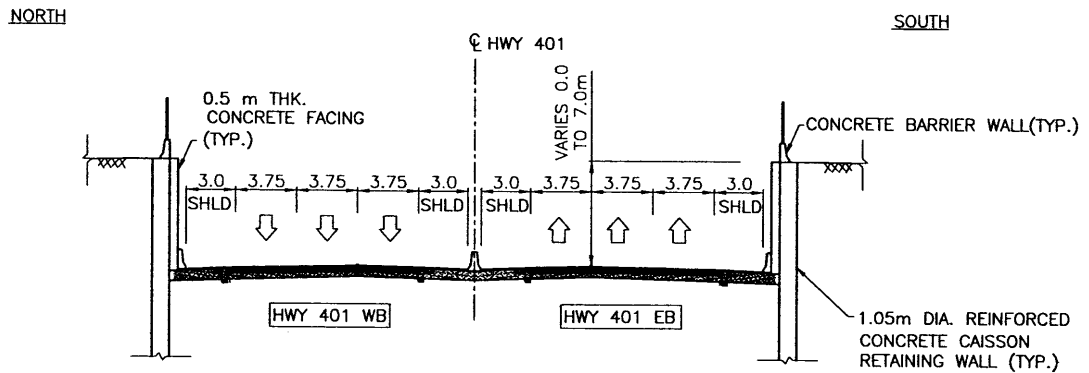
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 PLOT DATE: Aug 06, 2007 - 11:44am

STRUCTURAL PLANNING SHEET

W.O.NO.	----	CORRIDOR	HC-T	ROUTE	ALIGNMENT ALTERNATIVE 1A
STRUCTURE I.D.	1A-64	SITE NO.	----	LOCATION	HWY 401 AT JUST SOUTH OF EC ROW EXPRESSWAY
STRUCTURE NAME	APPROACH RAMP OF HWY 401 AT EAST OF EC ROW EXPRESSWAY			<input type="checkbox"/> EXISTING <input checked="" type="checkbox"/> NEW	<input type="checkbox"/> OVERPASS <input type="checkbox"/> UNDERPASS
STRUCTURE DESCRIPTION	BOAT SECTION WITH CAISSON RETAINING WALL OF VARIABLE HEIGHTS				
	<input type="checkbox"/> BELOW GRADE HWY <input checked="" type="checkbox"/> APPROACH RAMP				



ELEVATION SKETCH
1:400



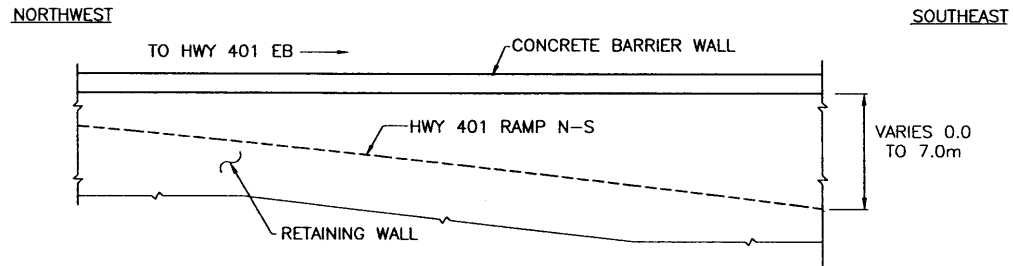
CROSS-SECTION SKETCH
1:400

LENGTH (m)	300	WIDTH (m)	----
STRUCTURAL DEPTH (m)	----	SPAN/DEPTH RATIO	----
SKEW ANGLE	----	VERTICAL CLEARANCE (m)	----
UNIT PRICE (\$/m)	NEW STRUCTURE	30,000	ESTIMATED COST (\$)
	REHABILITATION	----	
COMMENTS (SPECIAL CONSTRUCTION & DESIGN FEATURES)	BOAT SECTIONS FOR RAMPS OF SLIP ROADS FROM HURON CHURCH ROAD TO HIGHWAY 401 ARE CONSIDERED SEPERATELY.		
NAME OF CONSULTANT (FOR PLANNING)	URS CANADA INC.	DATE	JULY 2007

FILENAME:O:\DRIC\16_Structural\CAD\Planning_Sheets\Hwy Alternatives\2007\Bridge-AN-07-July 18-2007\REVISIONS.dwg
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STRUCTURAL PLANNING SHEET

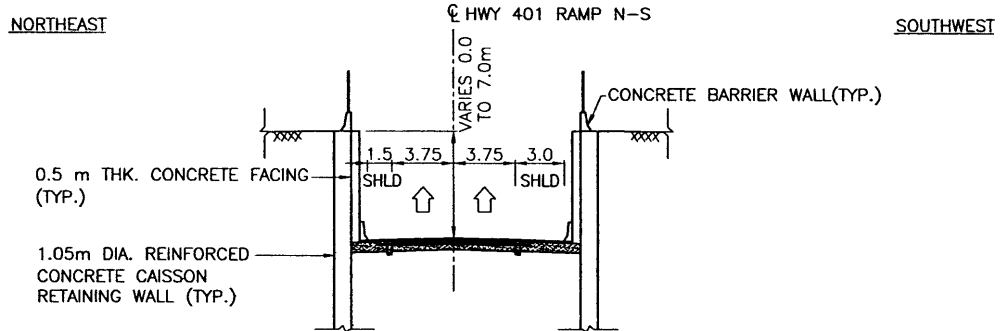
W.O.NO.	----	CORRIDOR	HC-T	ROUTE	ALIGNMENT ALTERNATIVE 1A
STRUCTURE I.D.	1A-65	SITE NO.	----	LOCATION	SIDE ROAD RAMP N-S TO HWY 401 AT SOUTH OF HURON CHURCH LINE
STRUCTURE NAME	RAMPS (N-S & S-N) TO HWY 401 AT EAST OF HURON CHURCH LINE		<input type="checkbox"/> EXISTING <input checked="" type="checkbox"/> NEW	<input type="checkbox"/> OVERPASS <input type="checkbox"/> UNDERPASS	<input type="checkbox"/> BELOW GRADE HWY <input checked="" type="checkbox"/> APPROACH RAMP
STRUCTURE DESCRIPTION	BOAT SECTION WITH CAISSON RETAINING WALLS OF VARIABLE HEIGHTS				



NOTE : HWY 401 RAMP S-N IS SIMILAR

ELEVATION SKETCH

1:400



NOTE : HWY 401 RAMP S-N IS SIMILAR

CROSS-SECTION SKETCH

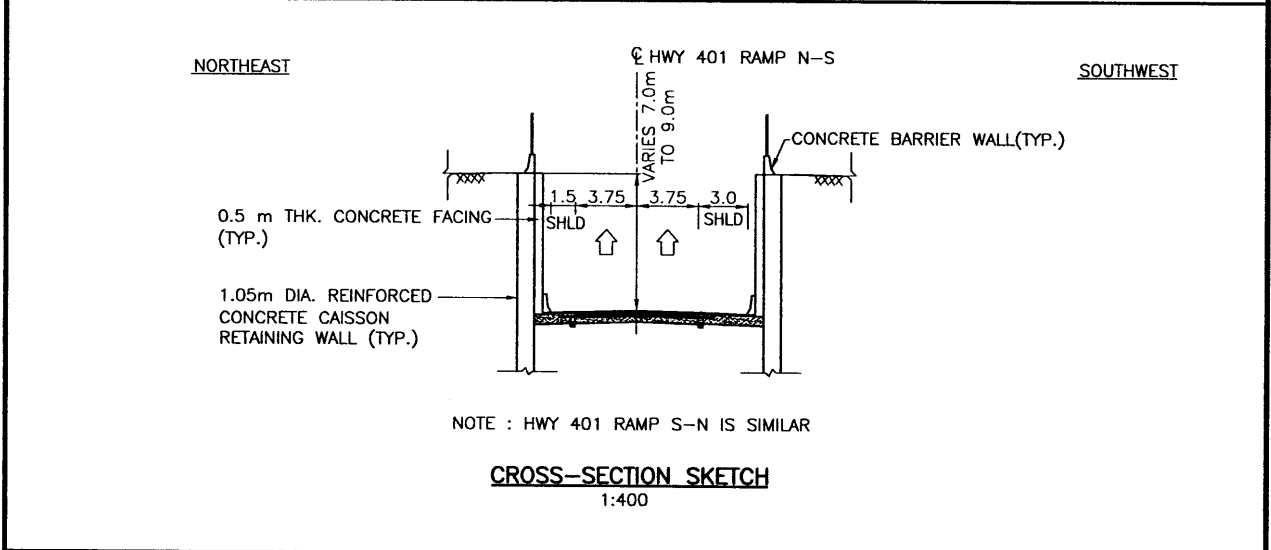
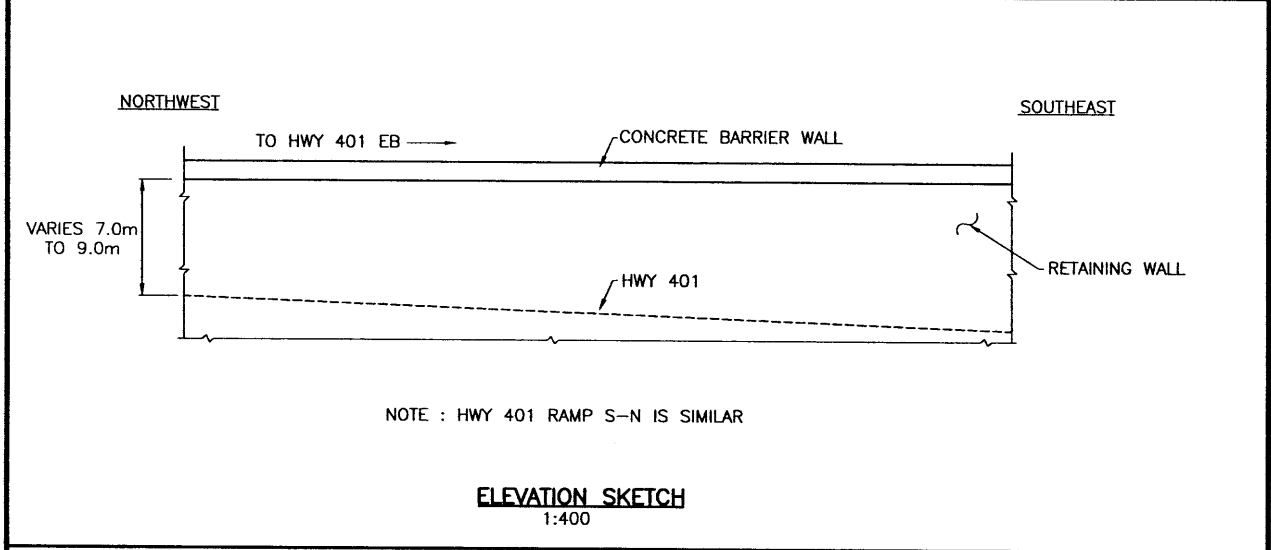
1:400

LENGTH (m)	420	WIDTH (m)	----
STRUCTURAL DEPTH (m)	----	SPAN/DEPTH RATIO	----
SKEW ANGLE	----	VERTICAL CLEARANCE (m)	----
UNIT PRICE (\$/m)	NEW STRUCTURE	30,000	ESTIMATED COST (\$) 12,600,000
	REHABILITATION	----	
COMMENTS (SPECIAL CONSTRUCTION & DESIGN FEATURES)	----		
NAME OF CONSULTANT (FOR PLANNING)	URS CANADA INC.	DATE	JULY 2007

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STRUCTURAL PLANNING SHEET

W.O.NO.	----	CORRIDOR	HC-T	ROUTE	ALIGNMENT ALTERNATIVE 1A
STRUCTURE I.D.	1A-66	SITE NO.	----	LOCATION	SIDE ROAD RAMP N-S TO HWY 401 AT SOUTH OF HURON CHURCH LINE
STRUCTURE NAME	BELOW GRADE RAMPS (N-S & S-N) TO HWY 401 AT EAST OF HURON CHURCH LINE			<input type="checkbox"/> EXISTING <input checked="" type="checkbox"/> NEW	<input type="checkbox"/> OVERPASS <input type="checkbox"/> UNDERPASS
STRUCTURE DESCRIPTION	BOAT SECTION WITH CAISSON RETAINING WALLS OF VARIABLE HEIGHTS				

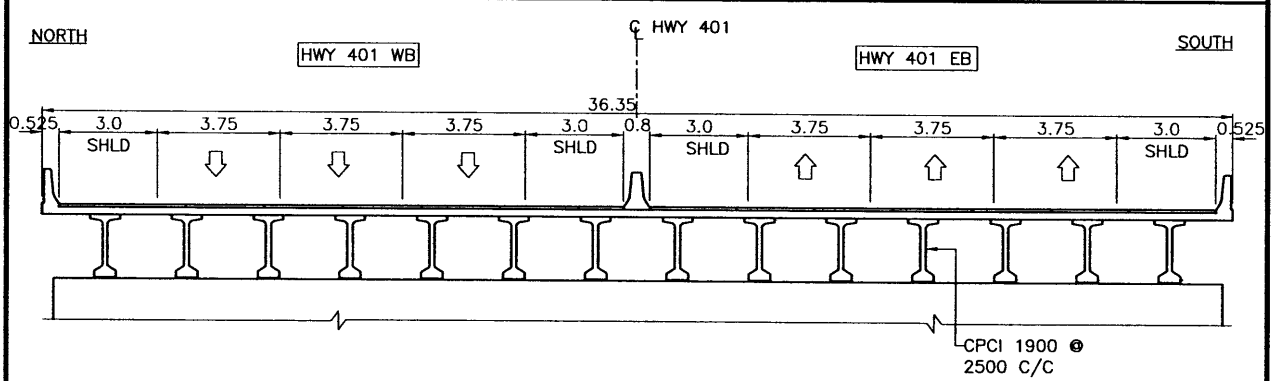
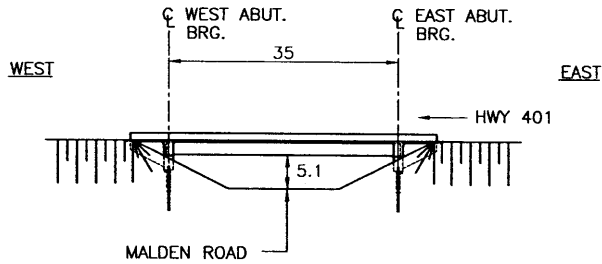


LENGTH (m)	150		WIDTH (m)	----	
STRUCTURAL DEPTH (m)	----		SPAN/DEPTH RATIO	----	
SKEW ANGLE	----		VERTICAL CLEARANCE (m)	----	
UNIT PRICE (\$/m)	NEW STRUCTURE	45,000	ESTIMATED COST (\$)	6,750,000	
	REHABILITATION	----			
COMMENTS (SPECIAL CONSTRUCTION & DESIGN FEATURES)	----				
NAME OF CONSULTANT (FOR PLANNING)	URS CANADA INC.		DATE	JULY 2007	

FILENAME:O:\DRIC\16_Structural\CAD\Planning_Sheets\ Hwy Alternatives\2007\Bridge-Alt-07-July 18-2007\REVISIONS.dwg
 PLOTDATE:Aug 06, 2007 - 11:43am

STRUCTURAL PLANNING SHEET

W.O.NO.	----	CORRIDOR	HC-T	ROUTE	ALIGNMENT ALTERNATIVE 1A
STRUCTURE I.D.	1A-90	SITE NO.	----	LOCATION	HWY 401 ABOVE MALDEN ROAD
BRIDGE NAME	MALDEN ROAD OVERPASS			<input type="checkbox"/> EXISTING <input checked="" type="checkbox"/> NEW	<input checked="" type="checkbox"/> OVERPASS <input type="checkbox"/> BELOW GRADE HWY <input type="checkbox"/> UNDERPASS <input type="checkbox"/> APPROACH RAMP
STRUCTURE DESCRIPTION	SINGLE SPAN CPCI 1900 GIRDERS WITH INTEGRAL ABUTMENTS				

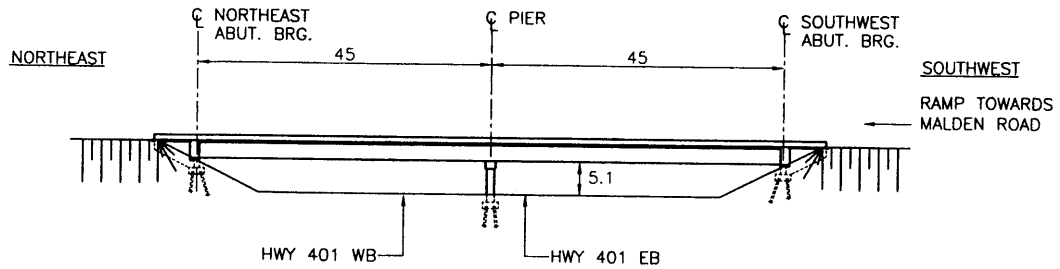


LENGTH (m)	35	WIDTH (m)	36.35
STRUCTURAL DEPTH (m)	2.2	SPAN/DEPTH RATIO	16
SKEW ANGLE	10°	VERTICAL CLEARANCE (m)	5.1
UNIT PRICE (\$/m ²)	NEW STRUCTURE	2,000	ESTIMATED COST (\$)
	REHABILITATION	----	
COMMENTS (SPECIAL CONSTRUCTION & DESIGN FEATURES)	HWY 401 CROSSES OVER MALDEN ROAD ON SKEW. HOWEVER THE RECTANGULAR BRIDGE DECK IS CONSIDERED.		
NAME OF CONSULTANT (FOR PLANNING)	URS CANADA INC.	DATE	MAY 2007

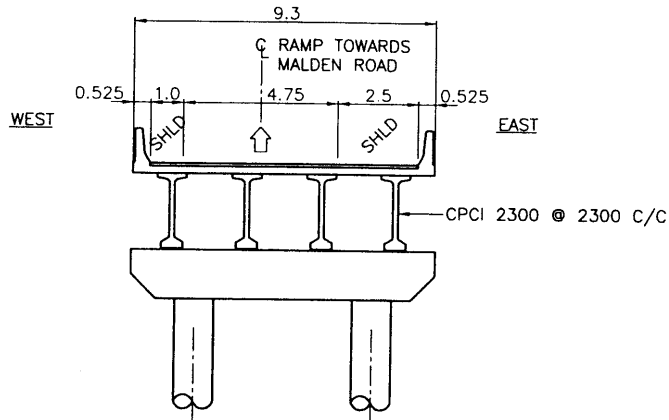
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STRUCTURAL PLANNING SHEET

W.O.NO.	----	CORRIDOR	HC-T	ROUTE	ALIGNMENT ALTERNATIVE 1A
STRUCTURE I.D.	1A-91	SITE NO.	----	LOCATION	RAMP TOWARDS MALDEN ROAD ABOVE HWY 401
BRIDGE NAME	RAMP W-E UNDERPASS			<input type="checkbox"/> EXISTING <input checked="" type="checkbox"/> NEW	<input type="checkbox"/> OVERPASS <input type="checkbox"/> BELOW GRADE HWY <input checked="" type="checkbox"/> UNDERPASS <input type="checkbox"/> APPROACH RAMP
STRUCTURE DESCRIPTION	TWO SPANS CPCI 2300 GIRDERS WITH SEMI-INTEGRAL ABUTMENTS				



ELEVATION SKETCH
1:1000



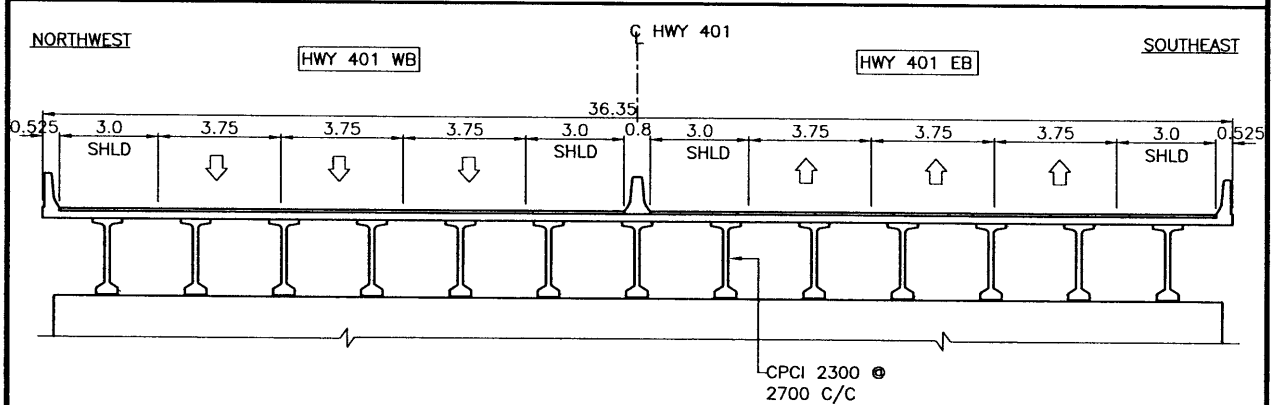
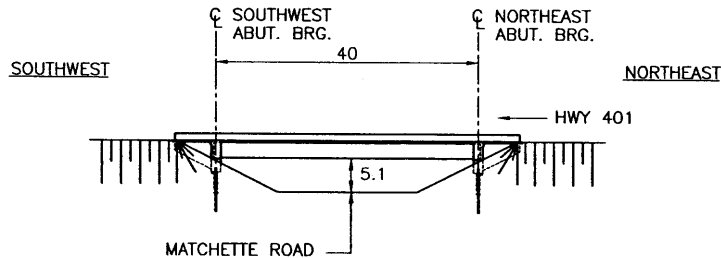
CROSS-SECTION SKETCH
1:200

LENGTH (m)	90	WIDTH (m)	9.30	
STRUCTURAL DEPTH (m)	2.6	SPAN/DEPTH RATIO	17	
SKEW ANGLE	55°	VERTICAL CLEARANCE (m)	5.1	
UNIT PRICE (\$/m ²)	NEW STRUCTURE	2,100	ESTIMATED COST (\$)	1,758,000
	REHABILITATION	----		
COMMENTS (SPECIAL CONSTRUCTION & DESIGN FEATURES)	SEMI-INTEGRAL ABUTMENTS DUE TO 55° SKEW			
NAME OF CONSULTANT (FOR PLANNING)	URS CANADA INC.	DATE	FEBRUARY 2007	

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STRUCTURAL PLANNING SHEET

W.O.NO.	----	CORRIDOR	HC-T	ROUTE	ALIGNMENT ALTERNATIVE 1A
STRUCTURE I.D.	1A-92	SITE NO.	----	LOCATION	MATCHETTE ROAD OVER HWY 401
BRIDGE NAME	MATCHETTE ROAD OVERPASS			<input type="checkbox"/> EXISTING <input checked="" type="checkbox"/> NEW	<input checked="" type="checkbox"/> OVERPASS <input type="checkbox"/> UNDERPASS
STRUCTURE DESCRIPTION	SINGLE SPAN CPCI 2300 GIRDERS WITH INTEGRAL ABUTMENTS				

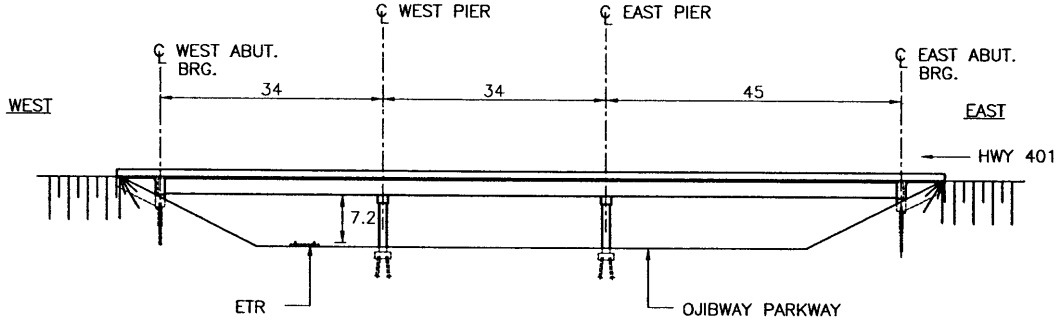


LENGTH (m)	40	WIDTH (m)	36.35
STRUCTURAL DEPTH (m)	2.6	SPAN/DEPTH RATIO	16
SKEW ANGLE	25°	VERTICAL CLEARANCE (m)	5.1
UNIT PRICE (\$/m ²)	NEW STRUCTURE	2,000	ESTIMATED COST (\$) 2,908,000
	REHABILITATION	----	
COMMENTS (SPECIAL CONSTRUCTION & DESIGN FEATURES)	HWY 401 CROSSES ABOVE MATCHETTE ROAD ON SKEW, HOWEVER RECTANGULAR BRIDGE DECK IS CONSIDERED.		
NAME OF CONSULTANT (FOR PLANNING)	URS CANADA INC.	DATE	MAY 2007

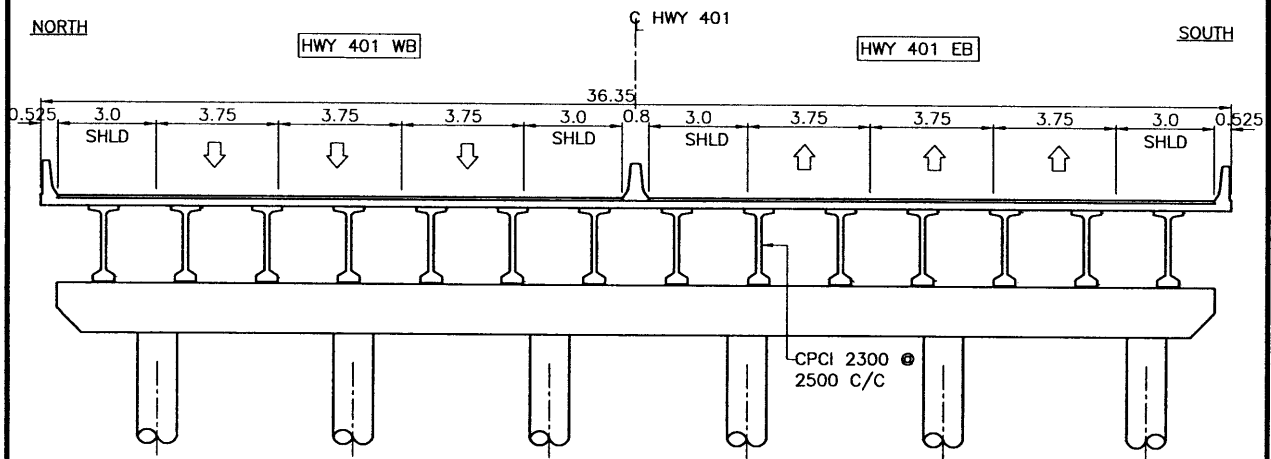
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STRUCTURAL PLANNING SHEET

W.O.NO.	----	CORRIDOR	HC-T	ROUTE	ALIGNMENT ALTERNATIVE 1A
STRUCTURE I.D.	1A-93	SITE NO.	----	LOCATION	HWY 401 OVER OJIBWAY PKWY & ETR TRACK
BRIDGE NAME	OJIBWAY / ETR OVERPASS			<input type="checkbox"/> EXISTING <input checked="" type="checkbox"/> NEW	<input checked="" type="checkbox"/> OVERPASS <input type="checkbox"/> UNDERPASS <input type="checkbox"/> BELOW GRADE HWY <input type="checkbox"/> APPROACH RAMP
STRUCTURE DESCRIPTION	THREE SPANS CPCI 2300 GIRDERS WITH INTEGRAL ABUTMENTS				



ELEVATION SKETCH
1:1000



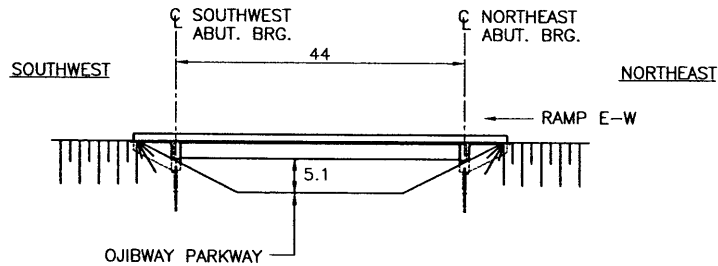
CROSS-SECTION SKETCH
1:200

LENGTH (m)	113	WIDTH (m)	36.35
STRUCTURAL DEPTH (m)	2.6	SPAN/DEPTH RATIO	17
SKEW ANGLE	20° (OJIBWAY PKWY) 0° (ETR)	VERTICAL CLEARANCE (m)	7.1
UNIT PRICE (\$/m ²)	NEW STRUCTURE 2,500 REHABILITATION ----	ESTIMATED COST (\$)	10,269,000
COMMENTS (SPECIAL CONSTRUCTION & DESIGN FEATURES)	HWY 401 CROSSING ABOVE OJIBWAY PARKWAY NEAR NEW INTERCHANGE AT EC ROW PARKWAY AND ESSEX TERMINAL RAILWAY (ETR) TRACK.		
NAME OF CONSULTANT (FOR PLANNING)	URS CANADA INC.	DATE	MAY 2007

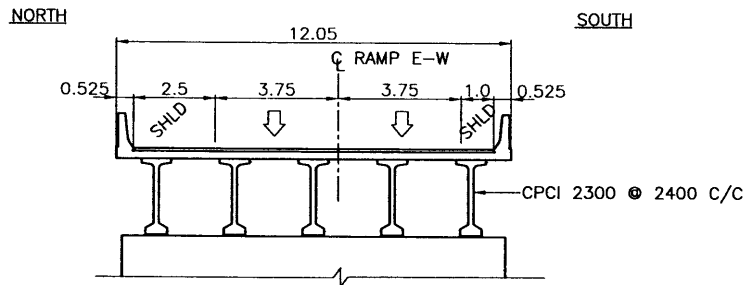
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STRUCTURAL PLANNING SHEET

W.O.NO.	----	CORRIDOR	HC-T	ROUTE	ALIGNMENT ALTERNATIVE 1A
STRUCTURE I.D.	1A-94	SITE NO.	----	LOCATION	RAMP E-W ABOVE OJIBWAY PKWY
BRIDGE NAME	RAMP E-W AT OJIBWAY PARKWAY OVERPASS			<input type="checkbox"/> EXISTING <input checked="" type="checkbox"/> NEW	<input checked="" type="checkbox"/> OVERPASS <input type="checkbox"/> UNDERPASS <input type="checkbox"/> BELOW GRADE HWY <input type="checkbox"/> APPROACH RAMP
STRUCTURE DESCRIPTION	SINGLE SPAN CPCI 2300 GIRDERS WITH INTEGRAL ABUTMENTS				



ELEVATION SKETCH
1:1000



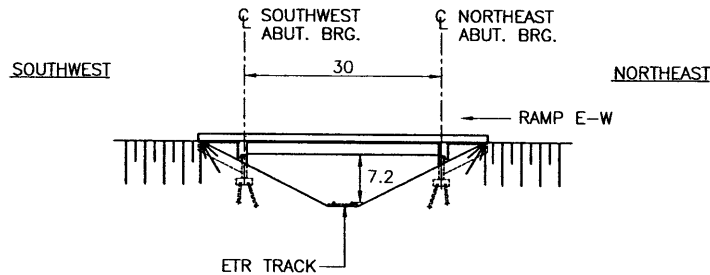
CROSS-SECTION SKETCH
1:200

LENGTH (m)	44	WIDTH (m)	12.05	
STRUCTURAL DEPTH (m)	2.6	SPAN/DEPTH RATIO	17	
SKEW ANGLE	20°	VERTICAL CLEARANCE (m)	5.1	
UNIT PRICE (\$/m ²)	NEW STRUCTURE	2,000	ESTIMATED COST (\$)	1,060,000
	REHABILITATION	----		
COMMENTS (SPECIAL CONSTRUCTION & DESIGN FEATURES)	E-W RAMP CROSSES ABOVE OJIBWAY PARKWAY ON SKEW. HOWEVER RECTANGULAR BRIDGE DECK IS CONSIDERED.			
NAME OF CONSULTANT (FOR PLANNING)	URS CANADA INC.	DATE	MAY 2007	

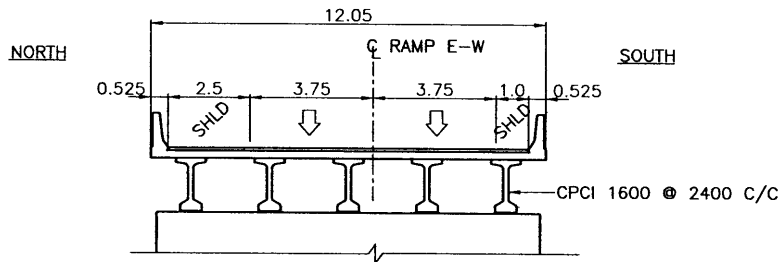
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 PLOT DATE: Aug 06, 2007 - 11:45am

STRUCTURAL PLANNING SHEET

W.O.NO.	----	CORRIDOR	HC-T	ROUTE	ALIGNMENT ALTERNATIVE 1A	
STRUCTURE I.D.	1A-95	SITE NO.	----	LOCATION	RAMP E-W OVER ETR TRACK	
BRIDGE NAME	RAMP E-W AT ETR OVERPASS			<input type="checkbox"/> EXISTING <input checked="" type="checkbox"/> NEW	<input checked="" type="checkbox"/> OVERPASS <input type="checkbox"/> UNDERPASS	<input type="checkbox"/> BELOW GRADE HWY <input type="checkbox"/> APPROACH RAMP
STRUCTURE DESCRIPTION	SINGLE SPAN CPCI 1600 GIRDERS WITH SEMI-INTEGRAL ABUTMENTS					



ELEVATION SKETCH
1:1000



CROSS-SECTION SKETCH
1:200

LENGTH (m)	30		WIDTH (m)	12.05	
STRUCTURAL DEPTH (m)	1.9		SPAN/DEPTH RATIO	17	
SKEW ANGLE	30°		VERTICAL CLEARANCE (m)	7.1	
UNIT PRICE (\$/m ²)	NEW STRUCTURE	2,500	ESTIMATED COST (\$)	904,000	
	REHABILITATION	----			
COMMENTS (SPECIAL CONSTRUCTION & DESIGN FEATURES)	E-W RAMP CROSSES ABOVE ESSEX TERMINAL RAILWAY (ETR) TRACK ON SKEW. HOWEVER RECTANGULAR BRIDGE DECK IS CONSIDER.				
NAME OF CONSULTANT (FOR PLANNING)	URS CANADA INC.		DATE	MAY 2007	

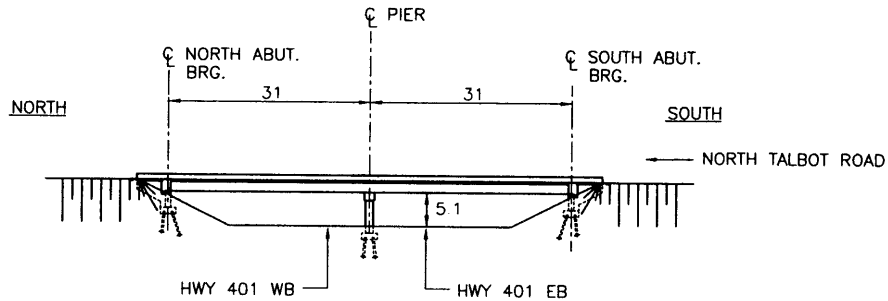
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Appendix C.2

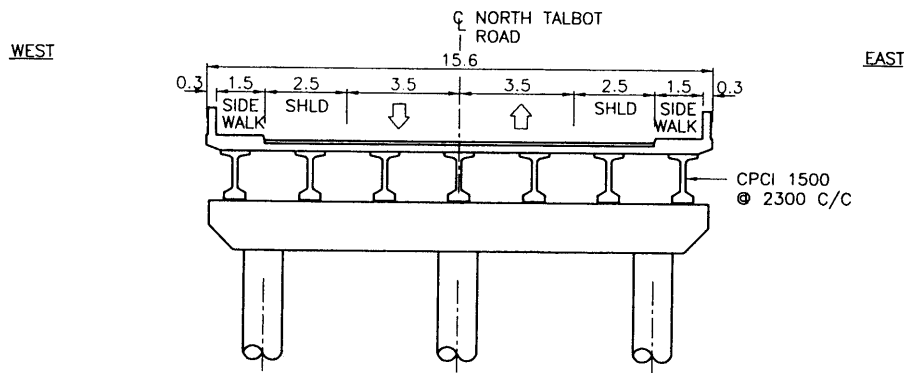
Structural Planning Sheets for Alternative 1B

STRUCTURAL PLANNING SHEET

W.O.NO.	----	CORRIDOR	HC-T	ROUTE	ALIGNMENT ALTERNATIVE 1B
STRUCTURE I.D.	1B-5	SITE NO.	----	LOCATION	NORTH TALBOT ROAD ABOVE HWY 401
BRIDGE NAME	NORTH TALBOT ROAD UNDERPASS			<input type="checkbox"/> EXISTING <input checked="" type="checkbox"/> NEW	<input type="checkbox"/> OVERPASS <input type="checkbox"/> BELOW GRADE HWY <input checked="" type="checkbox"/> UNDERPASS <input type="checkbox"/> APPROACH RAMP
STRUCTURE DESCRIPTION	TWO SPANS CPCI 1500 GIRDERS WITH SEMI-INTEGRAL ABUTMENTS				



ELEVATION SKETCH
1:1000



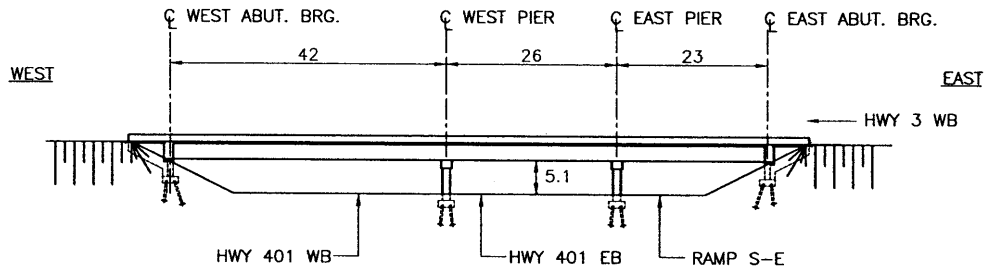
CROSS-SECTION SKETCH
1:200

LENGTH (m)	62	WIDTH (m)	15.60	
STRUCTURAL DEPTH (m)	1.8	SPAN/DEPTH RATIO	17	
SKEW ANGLE	30°	VERTICAL CLEARANCE (m)	5.1	
UNIT PRICE (\$/m ²)	NEW STRUCTURE	2,100	ESTIMATED COST (\$)	2,031,000
	REHABILITATION	----		
COMMENTS (SPECIAL CONSTRUCTION & DESIGN FEATURES)	<ul style="list-style-type: none"> - SEMI-INTEGRAL ABUTMENTS DUE TO 30° SKEW - EXISTING BRIDGE NEEDS TO BE REMOVED. - NORTH TALBOT ROAD NEEDS TO BE DIVERTED DURING THE CONSTRUCTION OR AFTER THE CONSTRUCTION OF THE NEW BRIDGE ON ADJACENT SITE. 			
NAME OF CONSULTANT (FOR PLANNING)	URS CANADA INC.	DATE	MAY 2007	

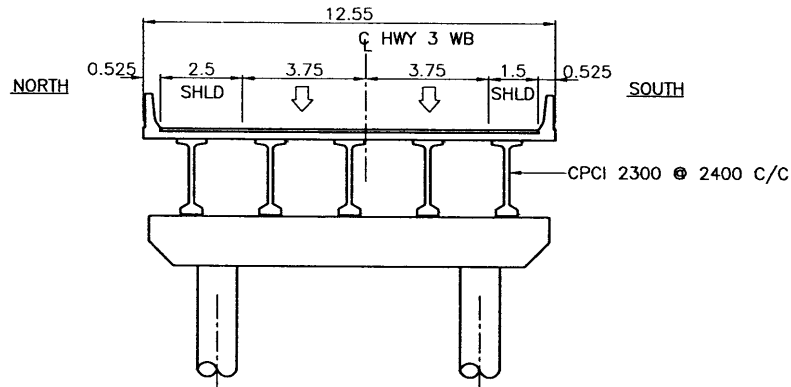
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STRUCTURAL PLANNING SHEET

W.O.NO.	----	CORRIDOR	HC-T	ROUTE	ALIGNMENT ALTERNATIVE 1B
STRUCTURE I.D.	1B-10	SITE NO.	----	LOCATION	HWY 3 OVER HWY 401
BRIDGE NAME	HIGHWAY 3 WB UNDERPASS			<input type="checkbox"/> EXISTING <input checked="" type="checkbox"/> NEW	<input type="checkbox"/> OVERPASS <input checked="" type="checkbox"/> UNDERPASS
STRUCTURE DESCRIPTION	THREE SPANS CPCI 2300 GIRDERS WITH SEMI-INTEGRAL ABUTMENTS				



ELEVATION SKETCH
1:1000



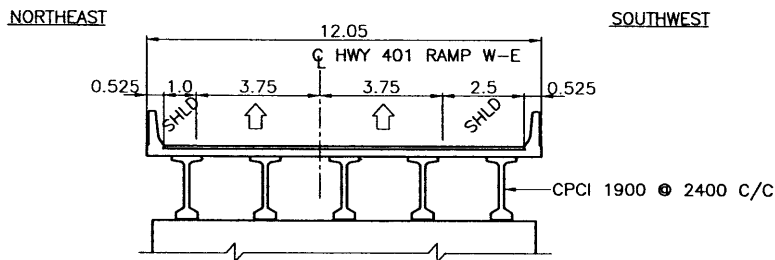
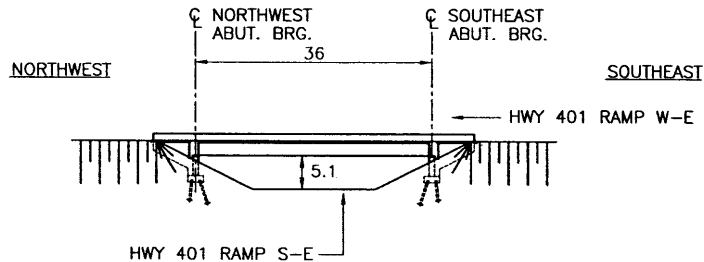
CROSS-SECTION SKETCH
1:200

LENGTH (m)	91	WIDTH (m)	12.55
STRUCTURAL DEPTH (m)	2.6	SPAN/DEPTH RATIO	16
SKEW ANGLE	40°	VERTICAL CLEARANCE (m)	5.1
UNIT PRICE (\$/m ²)	NEW STRUCTURE 2,100	ESTIMATED COST (\$)	2,398,000
	REHABILITATION ----		
COMMENTS (SPECIAL CONSTRUCTION & DESIGN FEATURES)	SEMI-INTEGRAL ABUTMENTS DUE TO 40° SKEW		
NAME OF CONSULTANT (FOR PLANNING)	URS CANADA INC.	DATE	FEBRUARY 2007

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 PLOTDATE: Aug 06, 2007 - 11:47am

STRUCTURAL PLANNING SHEET

W.O.NO.	----	CORRIDOR	HC-T	ROUTE	ALIGNMENT ALTERNATIVE 1B
STRUCTURE I.D.	1B-11	SITE NO.	----	LOCATION	HWY 401 RAMP W-E OVER RAMP S-E
BRIDGE NAME	HIGHWAY 401 RAMP W-E UNDERPASS			<input type="checkbox"/> EXISTING <input checked="" type="checkbox"/> NEW	<input type="checkbox"/> OVERPASS <input type="checkbox"/> BELOW GRADE HWY <input checked="" type="checkbox"/> UNDERPASS <input type="checkbox"/> APPROACH RAMP
STRUCTURE DESCRIPTION	SINGLE SPAN CPCI 1900 GIRDERS WITH SEMI-INTEGRAL ABUTMENTS				

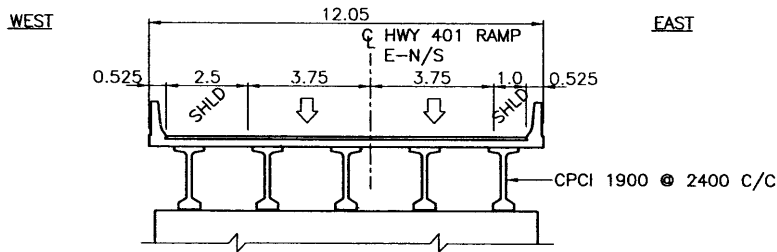
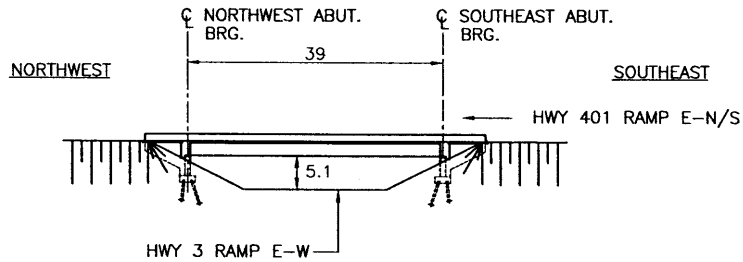


LENGTH (m)	36	WIDTH (m)	12.05	
STRUCTURAL DEPTH (m)	2.2	SPAN/DEPTH RATIO	16	
SKEW ANGLE	50°	VERTICAL CLEARANCE (m)	5.1	
UNIT PRICE (\$/m ²)	NEW STRUCTURE	2,100	ESTIMATED COST (\$)	911,000
	REHABILITATION	----		
COMMENTS (SPECIAL CONSTRUCTION & DESIGN FEATURES)	SEMI-INTEGRAL ABUTMENTS DUE TO 50° SKEW.			
NAME OF CONSULTANT (FOR PLANNING)	URS CANADA INC.	DATE	FEBRUARY 2007	

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STRUCTURAL PLANNING SHEET

W.O.NO.	----	CORRIDOR	HC-T	ROUTE	ALIGNMENT ALTERNATIVE 1B
STRUCTURE I.D.	1B-12	SITE NO.	----	LOCATION	HWY 401 RAMP E-N/S OVER RAMP E-W
BRIDGE NAME	HIGHWAY 401 RAMP E-N/S OVERPASS			<input type="checkbox"/> EXISTING <input checked="" type="checkbox"/> NEW	<input checked="" type="checkbox"/> OVERPASS <input type="checkbox"/> UNDERPASS <input type="checkbox"/> BELOW GRADE HWY <input type="checkbox"/> APPROACH RAMP
STRUCTURE DESCRIPTION	SINGLE SPAN CPCI 1900 GIRDERS WITH SEMI-INTEGRAL ABUTMENTS				

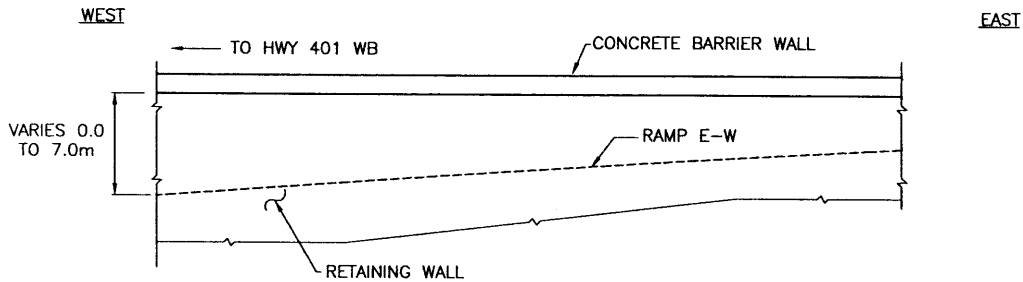


LENGTH (m)	39	WIDTH (m)	12.05
STRUCTURAL DEPTH (m)	2.2	SPAN/DEPTH RATIO	17
SKEW ANGLE	50°	VERTICAL CLEARANCE (m)	5.1
UNIT PRICE (\$/m ²)	NEW STRUCTURE	2,100	ESTIMATED COST (\$) 987,000
	REHABILITATION	----	
COMMENTS (SPECIAL CONSTRUCTION & DESIGN FEATURES)	SEMI-INTEGRAL ABUTMENTS DUE TO 50° SKEW.		
NAME OF CONSULTANT (FOR PLANNING)	URS CANADA INC.	DATE	FEBRUARY 2007

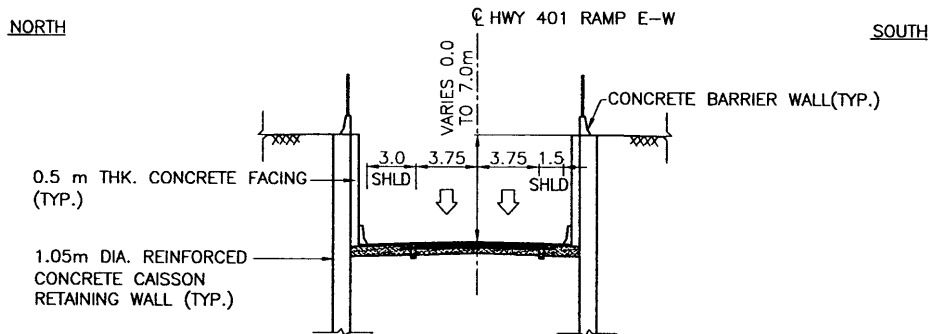
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STRUCTURAL PLANNING SHEET

W.O.NO.	----	CORRIDOR	HC-T	ROUTE	ALIGNMENT ALTERNATIVE 1B
STRUCTURE I.D.	1B-13	SITE NO.	----	LOCATION	HWY 401 AT EAST OF HOWARD AVENUE
STRUCTURE NAME	RAMP E-W AT EAST OF HOWARD AVENUE			<input type="checkbox"/> EXISTING <input checked="" type="checkbox"/> NEW	<input type="checkbox"/> OVERPASS <input type="checkbox"/> UNDERPASS
STRUCTURE DESCRIPTION	BOAT SECTION WITH CAISSON RETAINING WALLS OF VARIABLE HEIGHTS				



ELEVATION SKETCH
1:400



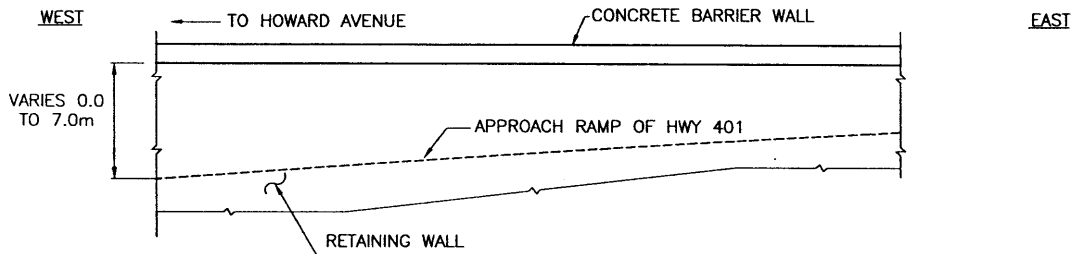
CROSS-SECTION SKETCH
1:400

LENGTH (m)	540		WIDTH (m)	----	
STRUCTURAL DEPTH (m)	----		SPAN/DEPTH RATIO	----	
SKEW ANGLE	----		VERTICAL CLEARANCE (m)	----	
UNIT PRICE (\$/m)	NEW STRUCTURE	30,000	ESTIMATED COST (\$)	16,200,000	
	REHABILITATION	----			
COMMENTS (SPECIAL CONSTRUCTION & DESIGN FEATURES)	----				
NAME OF CONSULTANT (FOR PLANNING)	URS CANADA INC.		DATE	FEBRUARY 2007	

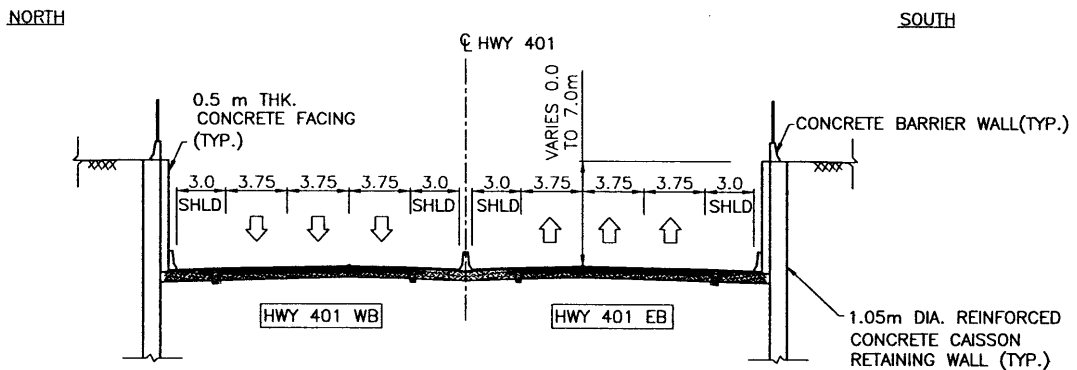
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STRUCTURAL PLANNING SHEET

W.O.NO.	----	CORRIDOR	HC-T	ROUTE	ALIGNMENT ALTERNATIVE 1B
STRUCTURE I.D.	1B-14	SITE NO.	----	LOCATION	HWY 401 RAMP AT EAST OF HOWARD AVENUE
STRUCTURE NAME	APPROACH RAMP OF HWY 401 AT EAST OF HOWARD AVENUE		<input type="checkbox"/> EXISTING <input checked="" type="checkbox"/> NEW	<input type="checkbox"/> OVERPASS <input type="checkbox"/> UNDERPASS	<input type="checkbox"/> BELOW GRADE HWY <input checked="" type="checkbox"/> APPROACH RAMP
STRUCTURE DESCRIPTION	BOAT SECTION WITH CAISSON RETAINING WALLS OF VARIABLE HEIGHTS				



ELEVATION SKETCH
1:400



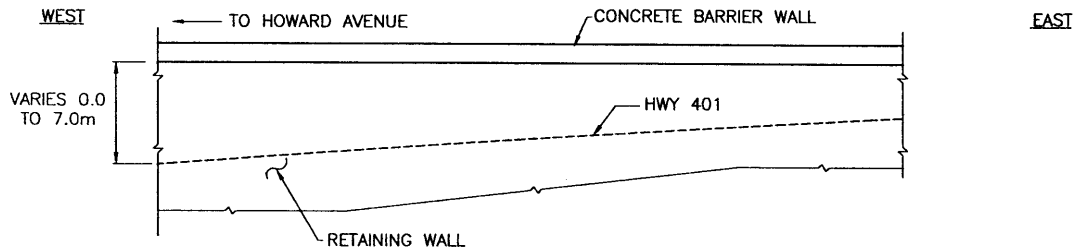
CROSS-SECTION SKETCH
1:400

LENGTH (m)	400	WIDTH (m)	----
STRUCTURAL DEPTH (m)	----	SPAN/DEPTH RATIO	----
SKEW ANGLE	----	VERTICAL CLEARANCE (m)	----
UNIT PRICE (\$/m)	NEW STRUCTURE	30,000	ESTIMATED COST (\$) 12,000,000
	REHABILITATION	----	
COMMENTS (SPECIAL CONSTRUCTION & DESIGN FEATURES)			
NAME OF CONSULTANT (FOR PLANNING)	URS CANADA INC.	DATE	FEBRUARY 2007

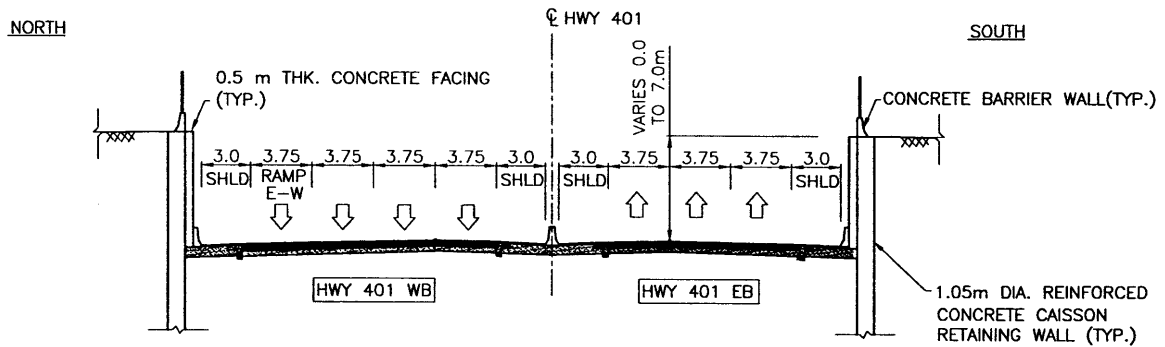
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STRUCTURAL PLANNING SHEET

W.O.NO.	----	CORRIDOR	HC-T	ROUTE	ALIGNMENT ALTERNATIVE 1B
STRUCTURE I.D.	1B-20	SITE NO.	----	LOCATION	HWY 401 AT EAST OF HOWARD AVENUE
STRUCTURE NAME	APPROACH RAMP OF HWY 401 AT EAST OF HOWARD AVENUE			<input type="checkbox"/> EXISTING <input checked="" type="checkbox"/> NEW	<input type="checkbox"/> OVERPASS <input type="checkbox"/> UNDERPASS <input checked="" type="checkbox"/> BELOW GRADE HWY <input checked="" type="checkbox"/> APPROACH RAMP
STRUCTURE DESCRIPTION	BOAT SECTION WITH CAISSON RETAINING WALLS OF VARIABLE HEIGHTS				



ELEVATION SKETCH
1:400



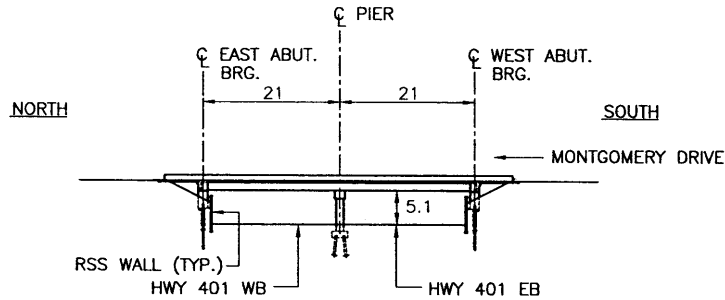
CROSS-SECTION SKETCH
1:400

LENGTH (m)	100	WIDTH (m)	----
STRUCTURAL DEPTH (m)	----	SPAN/DEPTH RATIO	----
SKEW ANGLE	----	VERTICAL CLEARANCE (m)	----
UNIT PRICE (\$/m)	NEW STRUCTURE	30,000	ESTIMATED COST (\$) 3,000,000
	REHABILITATION	----	
COMMENTS (SPECIAL CONSTRUCTION & DESIGN FEATURES)	THIS IS THE WIDER PORTION WITH HWY 401 INCLUDING ADDITIONAL RAMP E-W ON ONE SIDE		
NAME OF CONSULTANT (FOR PLANNING)	URS CANADA INC.	DATE	FEBRUARY 2007

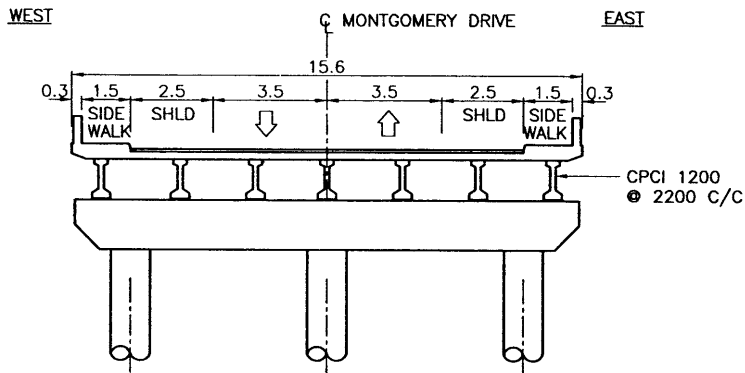
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 PLOT DATE: Aug 06, 2007 - 11:47am

STRUCTURAL PLANNING SHEET

W.O.NO.	----	CORRIDOR	HC-T	ROUTE	ALIGNMENT ALTERNATIVE 1B
STRUCTURE I.D.	1B-23	SITE NO.	----	LOCATION	MONTGOMERY DRIVE OVER HWY 401
BRIDGE NAME	MONTGOMERY DRIVE UNDERPASS			<input type="checkbox"/> EXISTING <input checked="" type="checkbox"/> NEW	<input type="checkbox"/> OVERPASS <input checked="" type="checkbox"/> UNDERPASS <input type="checkbox"/> BELOW GRADE HWY <input type="checkbox"/> APPROACH RAMP
STRUCTURE DESCRIPTION	TWO SPANS CPCI 1200 GIRDERS ON INTEGRAL ABUTMENTS WITH RSS WALLS				



ELEVATION SKETCH
1:1000



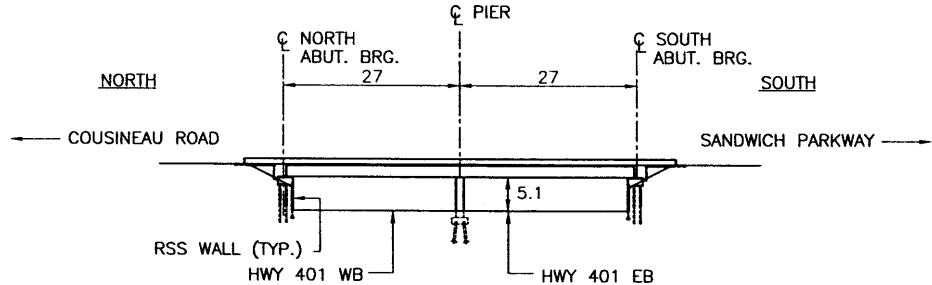
CROSS-SECTION SKETCH
1:200

LENGTH (m)	42	WIDTH (m)	15.60
STRUCTURAL DEPTH (m)	1.5	SPAN/DEPTH RATIO	14
SKEW ANGLE	NO	VERTICAL CLEARANCE (m)	5.1
UNIT PRICE (\$/m ²)	NEW STRUCTURE	2,100	ESTIMATED COST (\$) 1,376,000
	REHABILITATION	----	
COMMENTS (SPECIAL CONSTRUCTION & DESIGN FEATURES)	- OUTER SURFACE OF RSS WALL OF ABUTMENTS TO MATCH THE RW OF DEPRESSED HWY 401 ON EITHER SIDE OF THE BRIDGE CROSSING.		
NAME OF CONSULTANT (FOR PLANNING)	URS CANADA INC.	DATE	FEBRUARY 2007

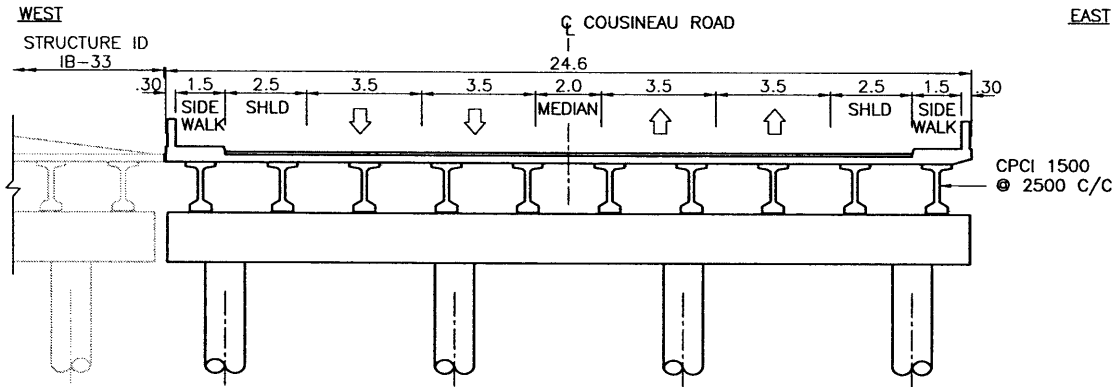
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 PLOT DATE: Aug 06, 2007 - 11:48am

STRUCTURAL PLANNING SHEET

W.O.NO.	----	CORRIDOR	HC-T	ROUTE	ALIGNMENT ALTERNATIVE 1B
STRUCTURE I.D.	1B-32	SITE NO.	----	LOCATION	COUSINEAU ROAD/SANDWICH PARKWAY OVER HWY 401
BRIDGE NAME	COUSINEAU ROAD/SANDWICH PARKWAY UNDERPASS			<input type="checkbox"/> EXISTING <input checked="" type="checkbox"/> NEW	<input type="checkbox"/> OVERPASS <input checked="" type="checkbox"/> UNDERPASS <input type="checkbox"/> BELOW GRADE HWY <input type="checkbox"/> APPROACH RAMP
STRUCTURE DESCRIPTION	TWO SPANS CPCI 1500 GIRDERS ON SEMI-INTEGRAL ABUTMENTS WITH RSS WALL				



ELEVATION SKETCH
1:1000



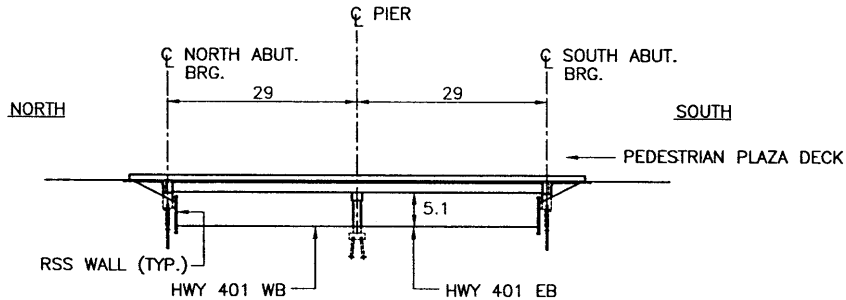
CROSS-SECTION SKETCH
1:200

LENGTH (m)	54	WIDTH (m)	24.60
STRUCTURAL DEPTH (m)	1.7	SPAN/DEPTH RATIO	16
SKEW ANGLE	25°	VERTICAL CLEARANCE (m)	5.1
UNIT PRICE (\$/m ²)	NEW STRUCTURE	2,200	ESTIMATED COST (\$) 2,922,000
	REHABILITATION	----	
COMMENTS (SPECIAL CONSTRUCTION & DESIGN FEATURES)	- OUTER SURFACE OF RSS WALL OF ABUTMENTS TO MATCH THE RW OF DEPRESSED HWY 401 ON EITHER SIDE OF THE BRIDGE CROSSING. - SEMI-INTEGRAL ABUTMENTS DUE TO 25° SKEW.		
NAME OF CONSULTANT (FOR PLANNING)	URS CANADA INC.	DATE	FEBRUARY 2007

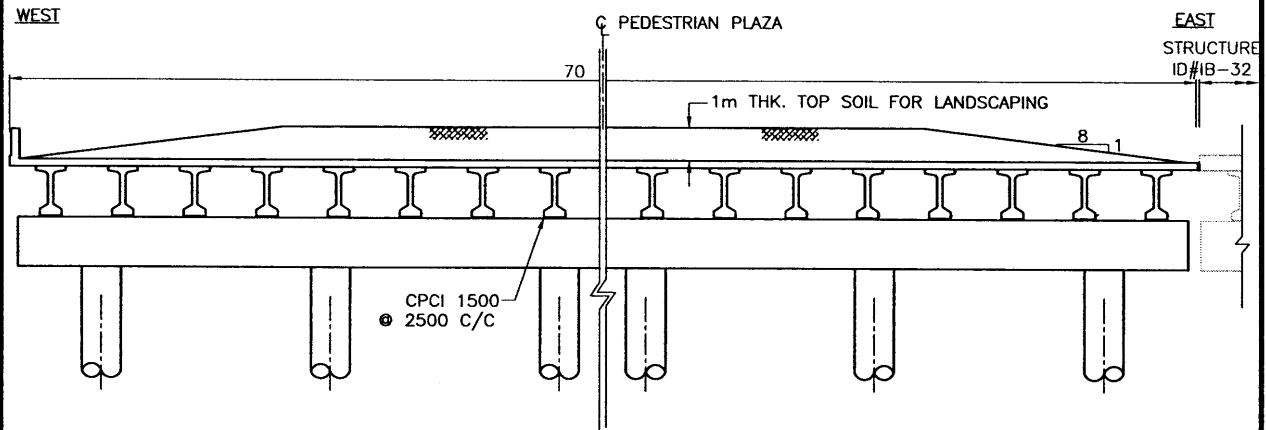
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STRUCTURAL PLANNING SHEET

W.O.NO.	----	CORRIDOR	HC-T	ROUTE	ALIGNMENT ALTERNATIVE 1B
STRUCTURE I.D.	1B-33	SITE NO.	----	LOCATION	PEDESTRIAN DECK PLAZA CROSSING HWY 401 NEAR COUSINEAU
BRIDGE NAME	PEDESTRIAN PLAZA AT COUSINEAU ROAD			<input type="checkbox"/> EXISTING <input checked="" type="checkbox"/> NEW	<input type="checkbox"/> OVERPASS <input type="checkbox"/> BELOW GRADE HWY <input checked="" type="checkbox"/> UNDERPASS <input type="checkbox"/> APPROACH RAMP
STRUCTURE DESCRIPTION	TWO SPANS CPCI 1500 GIRDERS ON INTEGRAL ABUTMENTS WITH RSS WALL				



ELEVATION SKETCH
1:1000



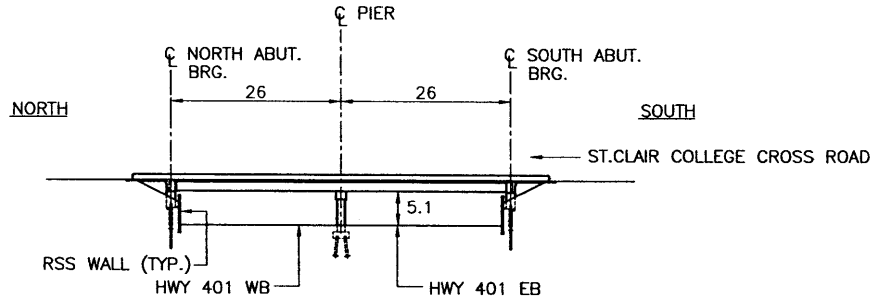
CROSS-SECTION SKETCH
1:200

LENGTH (m)	58	WIDTH (m)	70
STRUCTURAL DEPTH (m)	1.8	SPAN/DEPTH RATIO	15
SKEW ANGLE	20°	VERTICAL CLEARANCE (m)	5.1
UNIT PRICE (\$/m ²)	NEW STRUCTURE	2,100	ESTIMATED COST (\$) 8,526,000
	REHABILITATION	----	
COMMENTS (SPECIAL CONSTRUCTION & DESIGN FEATURES)	- OUTER SURFACE RSS WALL OF ABUTMENTS TO MATCH THE RW OF DEPRESSED HWY 401 ON EITHER SIDE OF THE BRIDGE CROSSING.		
NAME OF CONSULTANT (FOR PLANNING)	URS CANADA INC.	DATE	FEBRUARY 2007

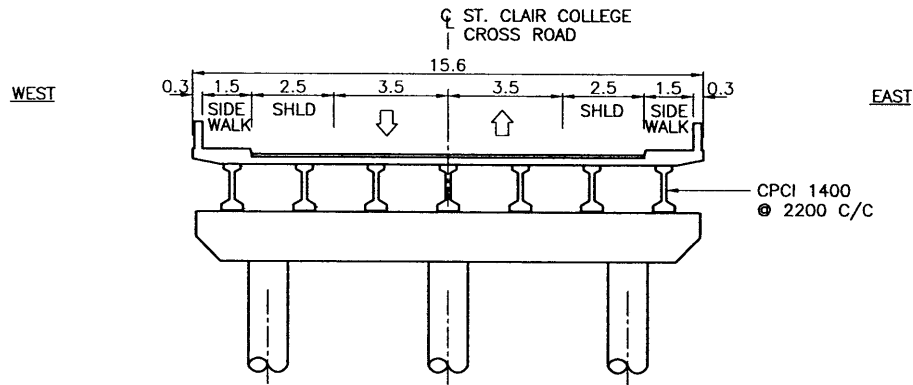
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 PLOTDATE: Aug 06, 2007 - 11:46am

STRUCTURAL PLANNING SHEET

W.O.NO.	----	CORRIDOR	HC-T	ROUTE	ALIGNMENT ALTERNATIVE 1B
STRUCTURE I.D.	1B-34	SITE NO.	----	LOCATION	ST. CLAIR COLLEGE ROAD ABOVE HWY 401
BRIDGE NAME	ST. CLAIR COLLEGE ROAD UNDERPASS			<input type="checkbox"/> EXISTING <input checked="" type="checkbox"/> NEW	<input type="checkbox"/> OVERPASS <input type="checkbox"/> BELOW GRADE HWY <input checked="" type="checkbox"/> UNDERPASS <input type="checkbox"/> APPROACH RAMP
STRUCTURE DESCRIPTION	TWO SPANS CPCI 1400 GIRDERS ON INTEGRAL ABUTMENTS WITH RSS WALL				



ELEVATION SKETCH
1:1000



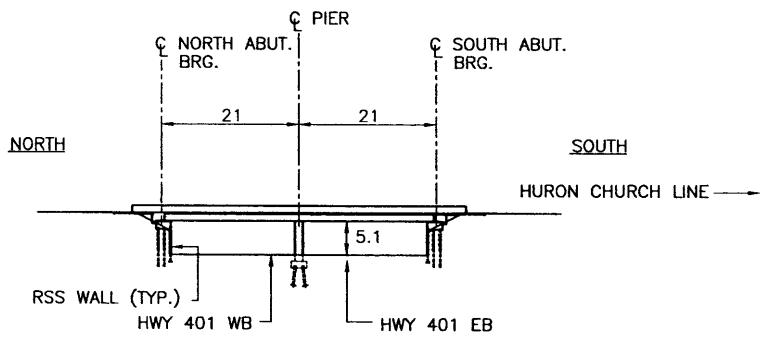
CROSS-SECTION SKETCH
1:200

LENGTH (m)	52	WIDTH (m)	15.60
STRUCTURAL DEPTH (m)	1.7	SPAN/DEPTH RATIO	15
SKEW ANGLE	NO	VERTICAL CLEARANCE (m)	5.1
UNIT PRICE (\$/m2)	NEW STRUCTURE	2,100	ESTIMATED COST (\$) 1,704,000
	REHABILITATION	----	
COMMENTS (SPECIAL CONSTRUCTION & DESIGN FEATURES)	OUTER SURFACE RSS WALL OF ABUTMENTS TO MATCH THE RW OF DEPRESSED HWY 401 ON EITHER SIDE OF THE BRIDGE CROSSING ADDITIONAL S.C.L. MAY BE REQUIRED FOR HIGHER TRAFFIC FOR DESIGN YEAR 2035. THE TRAFFIC REQUIREMENTS ARE CURRENTLY BEING REVIEWED.		
NAME OF CONSULTANT (FOR PLANNING)	URS CANADA INC.	DATE	FEBRUARY 2007

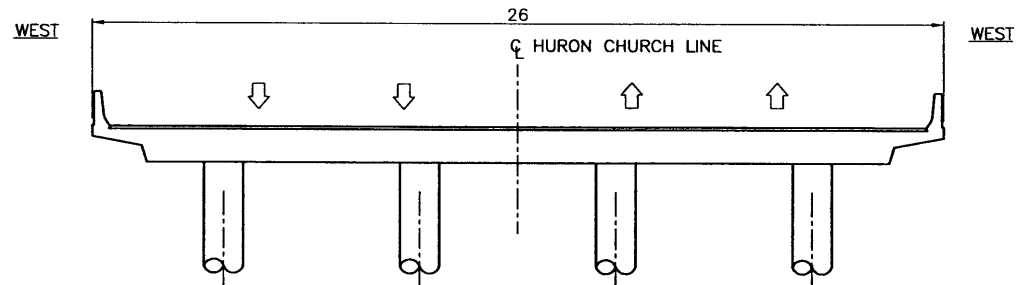
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STRUCTURAL PLANNING SHEET

W.O.NO.	----	CORRIDOR	HC-T	ROUTE	ALIGNMENT ALTERNATIVE 1B
STRUCTURE I.D.	1B-35	SITE NO.	----	LOCATION	HURON CHURCH LINE ROAD ABOVE HWY 401
BRIDGE NAME	HURON CHURCH LINE UNDERPASS			<input type="checkbox"/> EXISTING <input checked="" type="checkbox"/> NEW	<input type="checkbox"/> OVERPASS <input checked="" type="checkbox"/> UNDERPASS <input type="checkbox"/> BELOW GRADE HWY <input type="checkbox"/> APPROACH RAMP
STRUCTURE DESCRIPTION	TWO SPANS POST-TENSIONED SLAB ON SEMI-INTEGRAL ABUTMENTS WITH RSS WALL				



ELEVATION SKETCH
1:1000



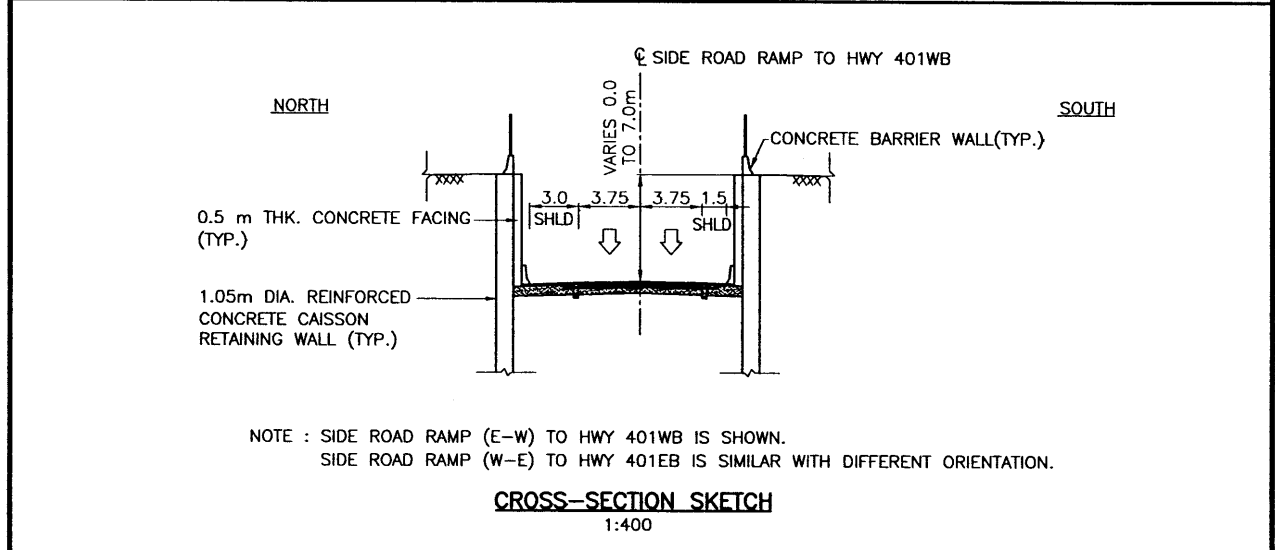
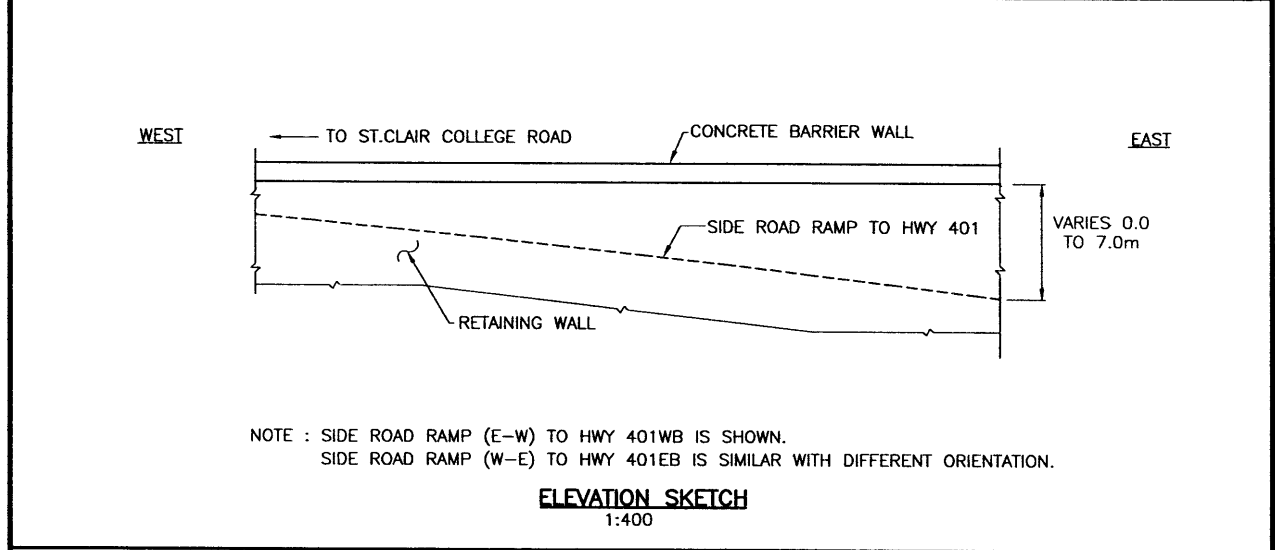
CROSS-SECTION SKETCH
1:200

LENGTH (m)	42	WIDTH (m)	26
STRUCTURAL DEPTH (m)	1.0	SPAN/DEPTH RATIO	21
SKEW ANGLE	NO	VERTICAL CLEARANCE (m)	5.1
UNIT PRICE (\$/m ²)	NEW STRUCTURE	2,300	ESTIMATED COST (\$) 2,512,000
	REHABILITATION	----	
COMMENTS (SPECIAL CONSTRUCTION & DESIGN FEATURES)	- AVERAGE WIDTH OF 26.0M IS CONSIDERED AS DETAILS OF MERGING LANES NOT AVAILABLE - OUTER SURFACE RSS WALL OF ABUTMENTS TO MATCH THE RW OF DEPRESSED HWY 401 ON EITHER SIDE OF THE BRIDGE CROSSING. - SEMI-INTEGRAL ABUTMENTS DUE LARGE VARIATION IN DECK WIDTH.		
NAME OF CONSULTANT (FOR PLANNING)	URS CANADA INC.	DATE	FEBRUARY 2007

FILENAME: (A:\DRG\16_Structure\CADD\Planning Sheets\Hwy Attraction\2007\Bridges\Alt-07-July 18-2007\REVISIONS.dwg
 PLOTDATE: Aug 06, 2007 -- 11:48am

STRUCTURAL PLANNING SHEET

W.O.NO.	----	CORRIDOR	HC-T	ROUTE	ALIGNMENT ALTERNATIVE 1B
STRUCTURE I.D.	1B-36	SITE NO.	----	LOCATION	SIDE ROAD RAMPS TO HWY 401 NEAR ST.CLAIR COLLEGE ROAD CROSSING (EAST SIDE)
STRUCTURE NAME	SIDE ROAD RAMPS (E-W & W-E) ON EAST OF ST.CLAIR COLLEGE ROAD			<input type="checkbox"/> EXISTING <input checked="" type="checkbox"/> NEW	<input type="checkbox"/> OVERPASS <input type="checkbox"/> UNDERPASS
STRUCTURE DESCRIPTION	BOAT SECTION WITH CAISSON RETAINING WALLS OF VARIABLE HEIGHTS				

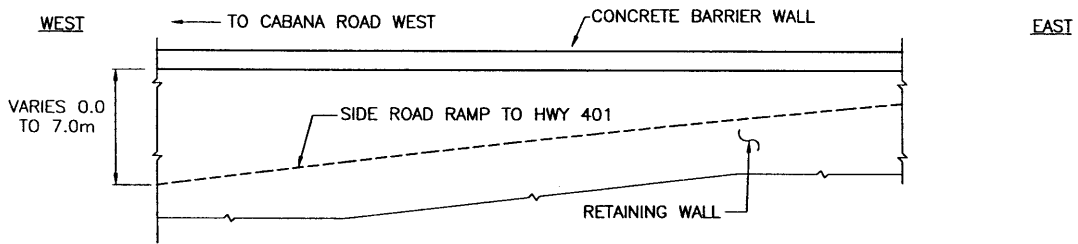


LENGTH (m)	560		WIDTH (m)	----	
STRUCTURAL DEPTH (m)	----		SPAN/DEPTH RATIO	----	
SKEW ANGLE	----		VERTICAL CLEARANCE (m)	----	
UNIT PRICE (\$/m)	NEW STRUCTURE	30,000	ESTIMATED COST (\$)	16,800,000	
	REHABILITATION	----			
COMMENTS (SPECIAL CONSTRUCTION & DESIGN FEATURES)					
NAME OF CONSULTANT (FOR PLANNING)	URS CANADA INC.		DATE	FEBRUARY 2007	

FILENAME: D:\DRIC\16_Structural\CADD\Planning Sheets\Hyd Alternatives\2007\Bridges\Alt-07-July 18-2007\REVISIONS.dwg
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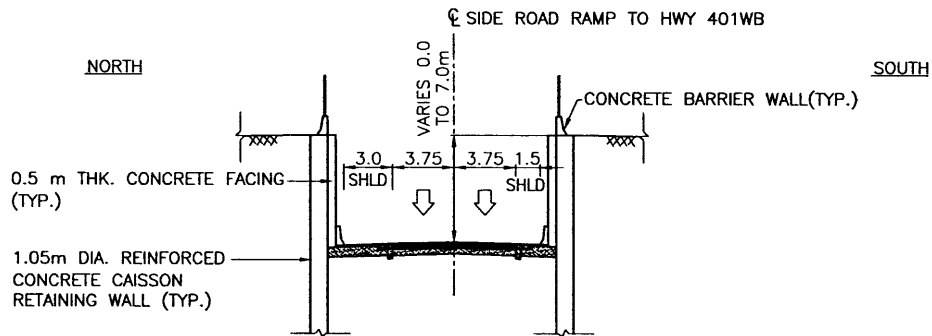
STRUCTURAL PLANNING SHEET

W.O.NO.	----	CORRIDOR	HC-T	ROUTE	ALIGNMENT ALTERNATIVE 1B
STRUCTURE I.D.	1B-37	SITE NO.	----	LOCATION	SIDE ROAD RAMPS TO HWY 401 NEAR ST.CLAIR COLLEGE ROAD CROSSING (WEST SIDE)
STRUCTURE NAME	SIDE ROAD RAMPS (W-E & E-W) ON WEST OF ST.CLAIR COLLEGE ROAD			<input type="checkbox"/> EXISTING <input checked="" type="checkbox"/> NEW	<input type="checkbox"/> OVERPASS <input type="checkbox"/> BELOW GRADE HWY <input type="checkbox"/> UNDERPASS <input checked="" type="checkbox"/> APPROACH RAMP
STRUCTURE DESCRIPTION	BOAT SECTION WITH CAISSON RETAINING WALLS OF VARIABLE HEIGHTS				



NOTE : SIDE ROAD RAMP (E-W) TO HWY 401WB IS SHOWN.
SIDE ROAD RAMP (W-E) TO HWY 401EB IS SIMILAR WITH DIFFERENT ORIENTATION.

ELEVATION SKETCH
1:400



NOTE : SIDE ROAD RAMP (E-W) TO HWY 401WB IS SHOWN.
SIDE ROAD RAMP (W-E) TO HWY 401EB IS SIMILAR WITH DIFFERENT ORIENTATION.

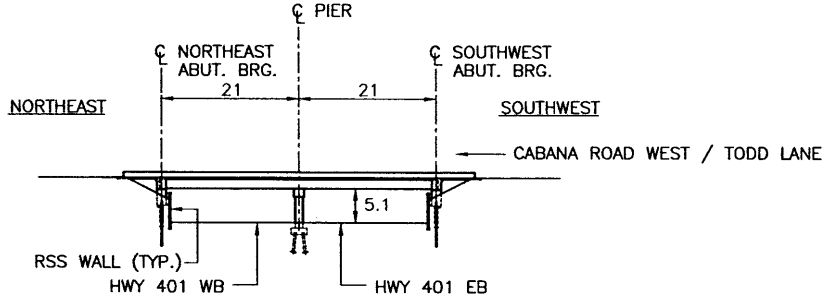
CROSS-SECTION SKETCH
1:400

LENGTH (m)	600	WIDTH (m)	----
STRUCTURAL DEPTH (m)	----	SPAN/DEPTH RATIO	----
SKREW ANGLE	----	VERTICAL CLEARANCE (m)	----
UNIT PRICE (\$/m)	NEW STRUCTURE	30,000	ESTIMATED COST (\$) 18,000,000
	REHABILITATION	----	
COMMENTS (SPECIAL CONSTRUCTION & DESIGN FEATURES)			
NAME OF CONSULTANT (FOR PLANNING)	URS CANADA INC.	DATE	FEBRUARY 2007

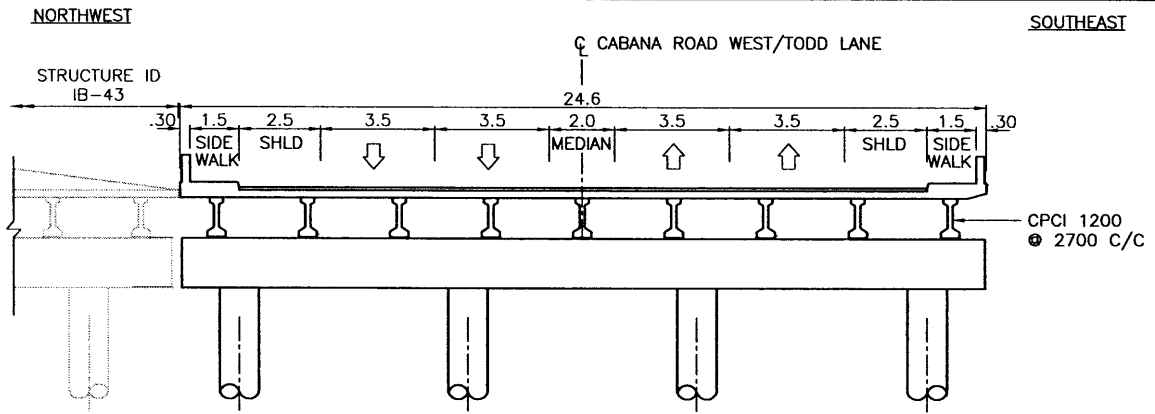
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 PLOTDATE: Aug 06, 2007 - 11:46am

STRUCTURAL PLANNING SHEET

W.O.NO.	----	CORRIDOR	HC-T	ROUTE	ALIGNMENT ALTERNATIVE 1B
STRUCTURE I.D.	1B-42	SITE NO.	----	LOCATION	CABANA ROAD WEST/TODD LANE ABOVE HWY 401
BRIDGE NAME	CABANA ROAD WEST/TODD LANE UNDERPASS			<input type="checkbox"/> EXISTING <input checked="" type="checkbox"/> NEW	<input type="checkbox"/> OVERPASS <input type="checkbox"/> BELOW GRADE HWY <input checked="" type="checkbox"/> UNDERPASS <input type="checkbox"/> APPROACH RAMP
STRUCTURE DESCRIPTION	TWO SPANS CPCI 1200 GIRDERS ON INTEGRAL ABUTMENTS WITH RSS WALL				



ELEVATION SKETCH
1:1000



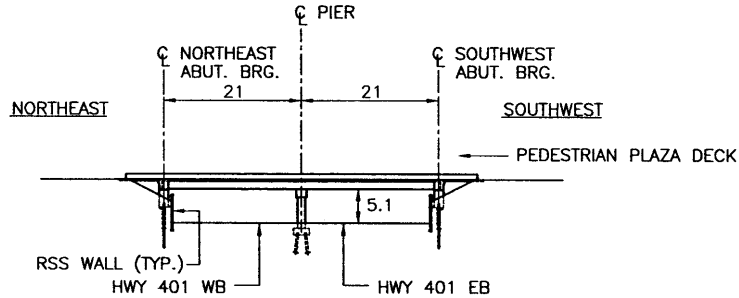
CROSS-SECTION SKETCH
1:200

LENGTH (m)	42	WIDTH (m)	24.60
STRUCTURAL DEPTH (m)	1.5	SPAN/DEPTH RATIO	14
SKREW ANGLE	10°	VERTICAL CLEARANCE (m)	5.1
UNIT PRICE (\$/m ²)	NEW STRUCTURE	2,100	ESTIMATED COST (\$) 2,170,000
	REHABILITATION	----	
COMMENTS (SPECIAL CONSTRUCTION & DESIGN FEATURES)	OUTER SURFACE OF RSS WALL OF ABUTMENTS TO MATCH THE RW OF DEPRESSED HWY 401 ON EITHER SIDE OF THE BRIDGE CROSSING. ADDITIONAL S.C.L. MAY BE REQUIRED FOR HIGHER TRAFFIC FOR DESIGN YEAR 2035. THE TRAFFIC REQUIREMENTS ARE CURRENTLY BEING REVIEWED.		
NAME OF CONSULTANT (FOR PLANNING)	URS CANADA INC.	DATE	FEBRUARY 2007

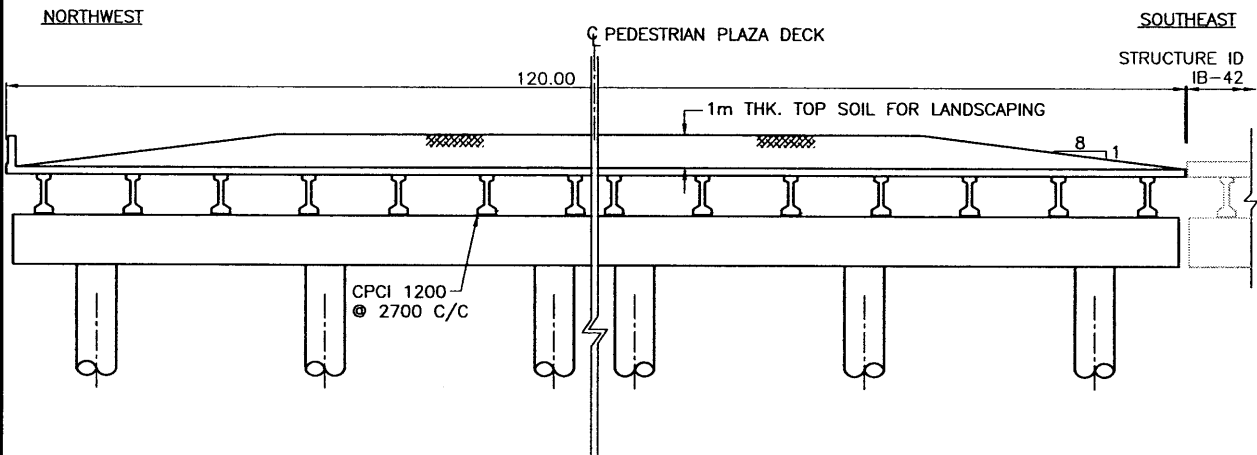
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 PLOTDATE: Aug 06, 2007 - 11:46am

STRUCTURAL PLANNING SHEET

W.O.NO.	----	CORRIDOR	HC-T	ROUTE	ALIGNMENT ALTERNATIVE 1B
STRUCTURE I.D.	1B-43	SITE NO.	----	LOCATION	PEDESTRIAN DECK PLAZA CROSSING HWY 401 NEAR TODD LANE
BRIDGE NAME	PEDESTRIAN PLAZA AT CABANA ROAD WEST			<input type="checkbox"/> EXISTING <input checked="" type="checkbox"/> NEW	<input type="checkbox"/> OVERPASS <input type="checkbox"/> BELOW GRADE HWY <input checked="" type="checkbox"/> UNDERPASS <input type="checkbox"/> APPROACH RAMP
STRUCTURE DESCRIPTION	TWO SPANS CPCI 1200 GIRDERS ON INTEGRAL ABUTMENTS WITH RSS WALLS				



ELEVATION SKETCH
1:1000



CROSS-SECTION SKETCH
1:200

LENGTH (m)	42	WIDTH (m)	120
STRUCTURAL DEPTH (m)	1.5	SPAN/DEPTH RATIO	14
SKEW ANGLE	NO	VERTICAL CLEARANCE (m)	5.1

UNIT PRICE (\$/m ²)	NEW STRUCTURE	2,100	ESTIMATED COST (\$)	10,584,000
	REHABILITATION	----		

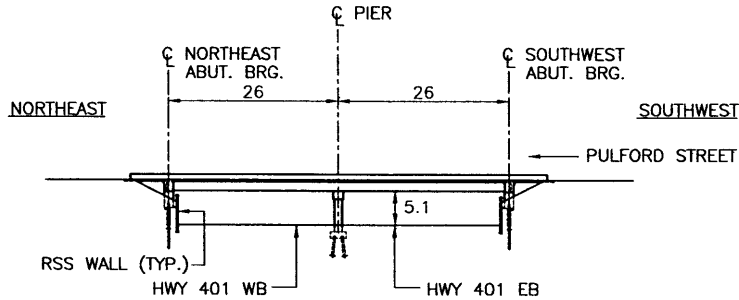
COMMENTS (SPECIAL CONSTRUCTION & DESIGN FEATURES)
 OUTER SURFACE OF RSS WALL OF ABUTMENTS TO MATCH THE RW OF DEPRESSED HWY 401 ON EITHER SIDE OF THE BRIDGE CROSSING.

NAME OF CONSULTANT (FOR PLANNING)	URS CANADA INC.	DATE	FEBRUARY 2007
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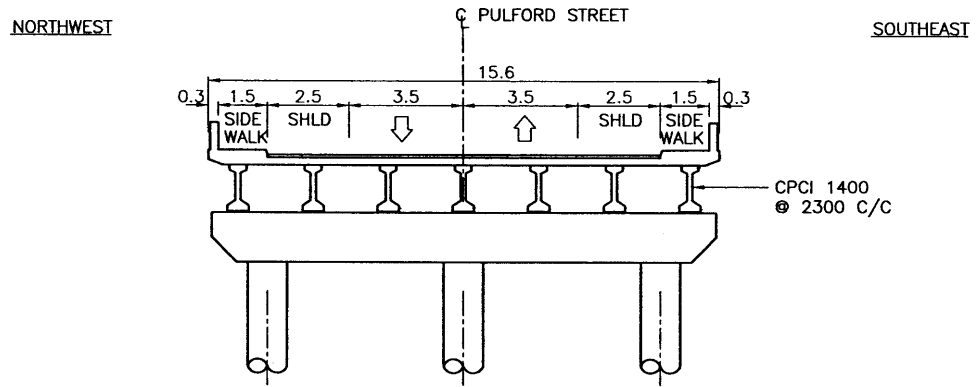
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STRUCTURAL PLANNING SHEET

W.O.NO.	----	CORRIDOR	HC-T	ROUTE	ALIGNMENT ALTERNATIVE 1B
STRUCTURE I.D.	1B-44	SITE NO.	----	LOCATION	PULFORD STREET OVER HWY 401
BRIDGE NAME	PULFORD STREET UNDERPASS			<input type="checkbox"/> EXISTING <input checked="" type="checkbox"/> NEW	<input type="checkbox"/> OVERPASS <input type="checkbox"/> BELOW GRADE HWY <input checked="" type="checkbox"/> UNDERPASS <input type="checkbox"/> APPROACH RAMP
STRUCTURE DESCRIPTION	TWO SPANS CPCI 1400 GIRDERS WITH INTEGRAL ABUTMENTS WITH RSS WALLS				



ELEVATION SKETCH
1:1000



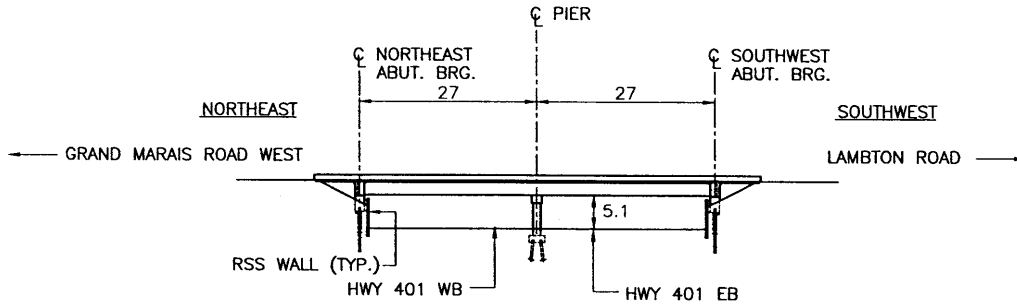
CROSS-SECTION SKETCH
1:200

LENGTH (m)	52	WIDTH (m)	15.60
STRUCTURAL DEPTH (m)	1.7	SPAN/DEPTH RATIO	15
SKREW ANGLE	NO	VERTICAL CLEARANCE (m)	5.1
UNIT PRICE (\$/m2)	NEW STRUCTURE	2,100	ESTIMATED COST (\$) 1,704,000
	REHABILITATION	----	
COMMENTS (SPECIAL CONSTRUCTION & DESIGN FEATURES)	OUTER SURFACE OF RSS WALL OF ABUTMENTS TO MATCH THE RW OF DEPRESSED HWY 401 ON EITHER SIDE OF THE BRIDGE CROSSING. SIDE ROADS ON EITHER SIDE OF HWY 401 NEED TO BE SPACED APART.		
NAME OF CONSULTANT (FOR PLANNING)	URS CANADA INC.	DATE	FEBRUARY 2007

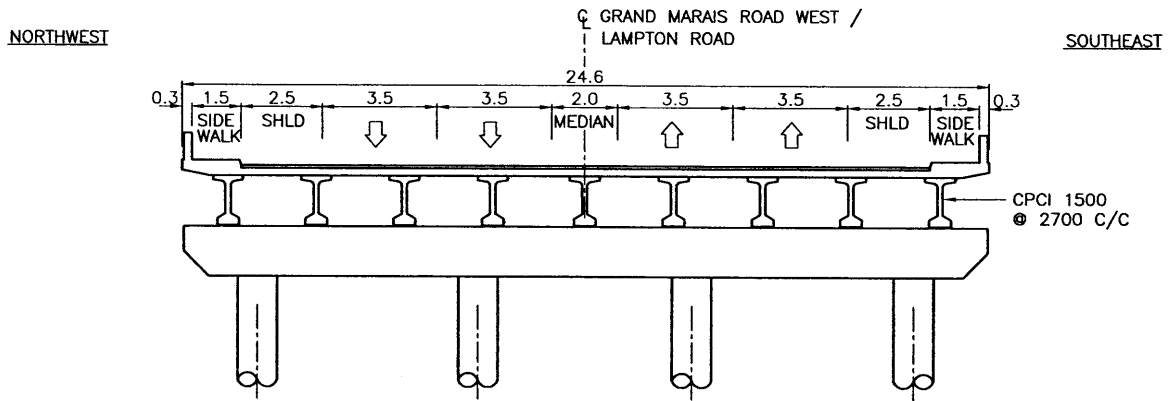
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STRUCTURAL PLANNING SHEET

W.O.NO.	----	CORRIDOR	HC-T	ROUTE	ALIGNMENT ALTERNATIVE 1B
STRUCTURE I.D.	1B-51	SITE NO.	----	LOCATION	LABTON/GRAND MARAIS ROAD WEST ABOVE HWY 401
BRIDGE NAME	GRAND MARAIS ROAD WEST/LABTON UNDERPASS			<input type="checkbox"/> EXISTING <input checked="" type="checkbox"/> NEW	<input type="checkbox"/> OVERPASS <input type="checkbox"/> BELOW GRADE HWY <input checked="" type="checkbox"/> UNDERPASS <input type="checkbox"/> APPROACH RAMP
STRUCTURE DESCRIPTION	TWO SPANS CPCI 1500 GIRDER ON INTEGRAL ABUTMENTS WITH RSS WALL				



ELEVATION SKETCH
1:1000



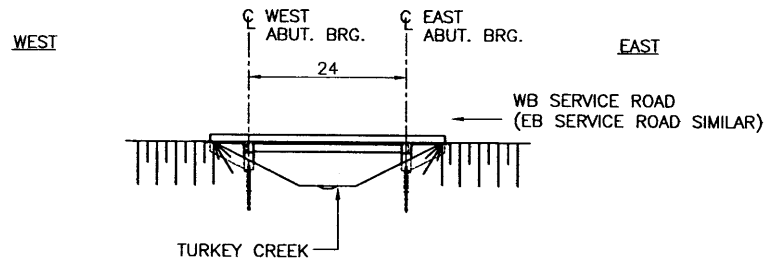
CROSS-SECTION SKETCH
1:200

LENGTH (m)	54	WIDTH (m)	24.60
STRUCTURAL DEPTH (m)	1.8	SPAN/DEPTH RATIO	17
SKEW ANGLE	10°	VERTICAL CLEARANCE (m)	5.1
UNIT PRICE (\$/m ²)	NEW STRUCTURE	2,100	ESTIMATED COST (\$) 2,790,000
	REHABILITATION	----	
COMMENTS (SPECIAL CONSTRUCTION & DESIGN FEATURES)	<ul style="list-style-type: none"> - OUTER SURFACE OF RSS WALL OF ABUTMENTS TO MATCH THE RW OF DEPRESSED HWY 401 ON EITHER SIDE OF THE BRIDGE CROSSING. - SLIP ROADS ON EITHER SIDE OF HWY 401 TO BE TAKEN SLIGHTLY APART 		
NAME OF CONSULTANT (FOR PLANNING)	URS CANADA INC.	DATE	FEBRUARY 2007

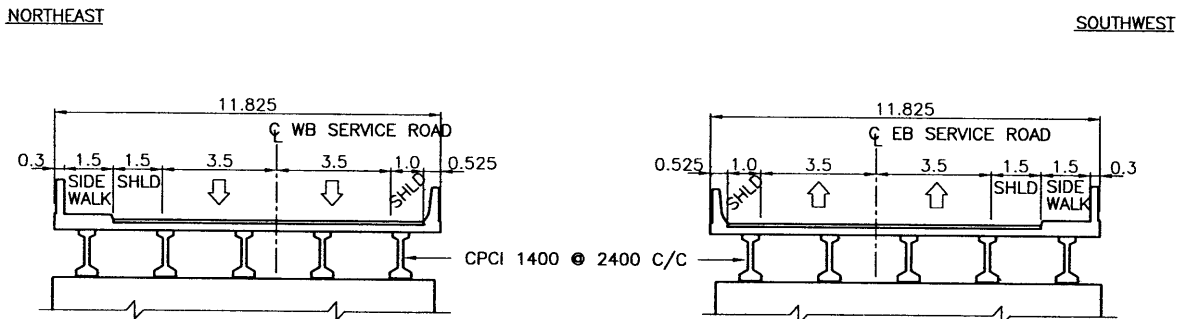
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STRUCTURAL PLANNING SHEET

W.O.NO.	----	CORRIDOR	HC-T	ROUTE	ALIGNMENT ALTERNATIVE 1B
STRUCTURE I.D.	1B-55	SITE NO.	----	LOCATION	HWY 401 CROSSING UNDER TURKEY CREEK
BRIDGE NAME	TURKEY CREEK BRIDGE FOR SERVICE ROAD			<input type="checkbox"/> EXISTING <input checked="" type="checkbox"/> NEW	<input type="checkbox"/> OVERPASS <input type="checkbox"/> BELOW GRADE HWY <input checked="" type="checkbox"/> UNDERPASS <input type="checkbox"/> APPROACH RAMP
STRUCTURE DESCRIPTION	SINGLE SPAN CPCI GIRDERS ON INTEGRAL ABUTMENTS				



ELEVATION SKETCH
1:1000



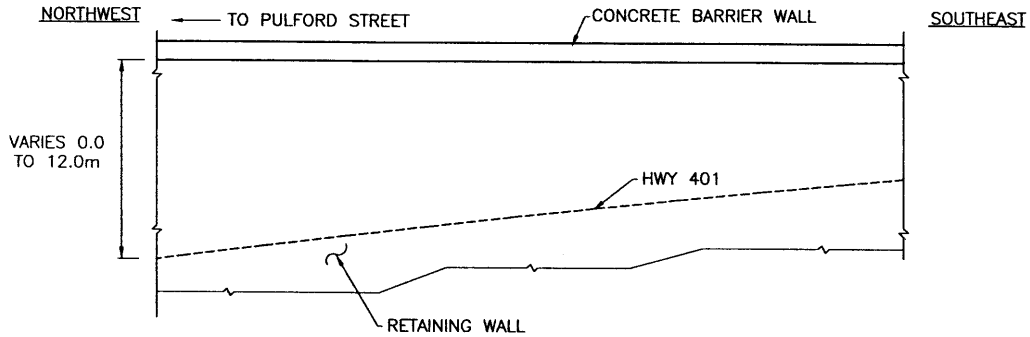
CROSS-SECTION SKETCH
1:200

LENGTH (m)	24	WIDTH (m)	23.65
STRUCTURAL DEPTH (m)	1.7	SPAN/DEPTH RATIO	16
SKEW ANGLE	--	VERTICAL CLEARANCE (m)	--
UNIT PRICE (\$/m ²)	NEW STRUCTURE	8,000	ESTIMATED COST (\$) 4,541,000
	REHABILITATION	----	
COMMENTS (SPECIAL CONSTRUCTION & DESIGN FEATURES)	THE COST INCLUDES THE STAGED CONSTRUCTION, TEMPORARY BRIDGE CONSTRUCTION & REMOVAL FOR DIVERTED HURON CHURCH ROAD		
NAME OF CONSULTANT (FOR PLANNING)	URS CANADA INC.	DATE	JULY 2007

FILENAME: C:\DRIC\18_Structure\CADD\Planning Sheets\18-2007\REVISIONS\Bridges\Alternative-1B-July 18-2007\REVISIONS.dwg
 PLOT DATE: Aug 06, 2007 - 11:49am

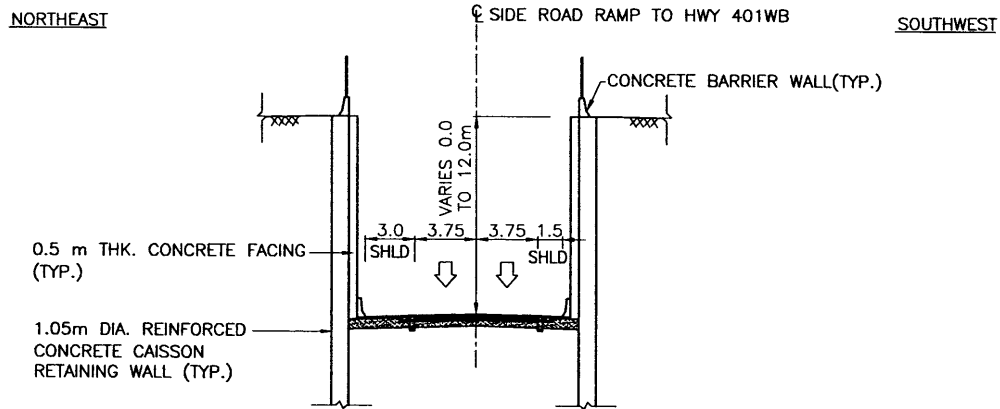
STRUCTURAL PLANNING SHEET

W.O.NO.	----	CORRIDOR	HC-T	ROUTE	ALIGNMENT ALTERNATIVE 1B
STRUCTURE I.D.	1B-60	SITE NO.	----	LOCATION	SIDE ROAD RAMPS TO HWY 401 EAST SIDE OF PULFORD STREET
STRUCTURE NAME	SIDE ROAD RAMPS (S-N & N-S) ON EAST OF PULFORD STREET			<input type="checkbox"/> EXISTING <input checked="" type="checkbox"/> NEW	<input type="checkbox"/> OVERPASS <input type="checkbox"/> BELOW GRADE HWY <input type="checkbox"/> UNDERPASS <input checked="" type="checkbox"/> APPROACH RAMP
STRUCTURE DESCRIPTION	BOAT SECTION WITH CAISSON RETAINING WALLS OF VARIABLE HEIGHTS				



NOTE : SIDE ROAD RAMP (S-N) TO HWY 401WB IS SHOWN.
SIDE ROAD RAMP (N-S) TO HWY 401EB IS SIMILAR WITH DIFFERENT ORIENTATION.

ELEVATION SKETCH
1:400



NOTE : SIDE ROAD RAMP (S-N) TO HWY 401WB IS SHOWN.
SIDE ROAD RAMP (N-S) TO HWY 401EB IS SIMILAR WITH DIFFERENT ORIENTATION.

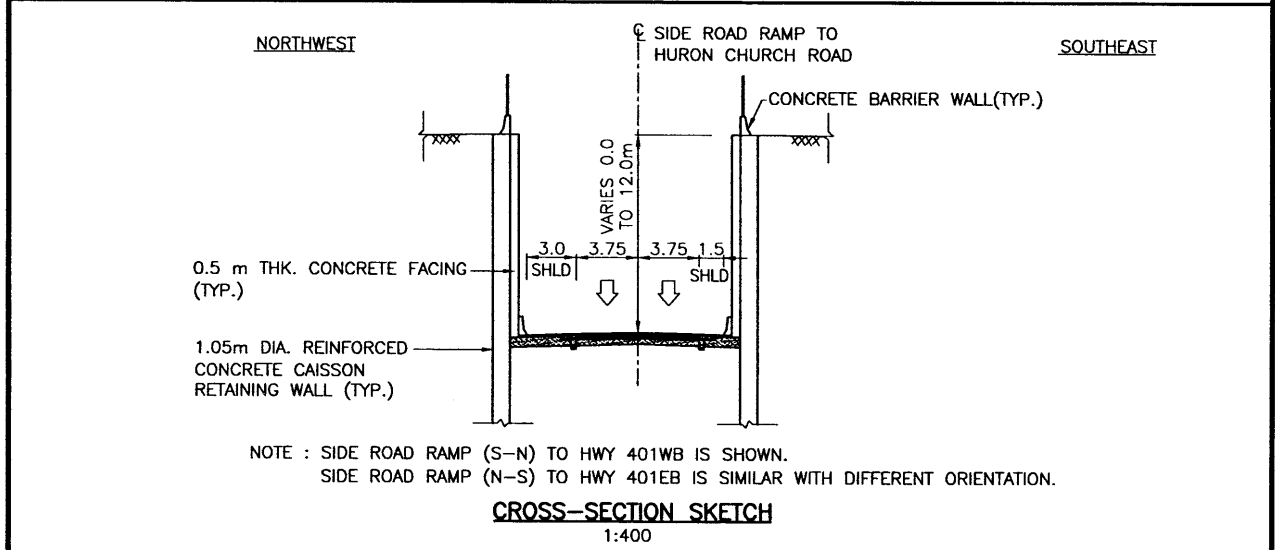
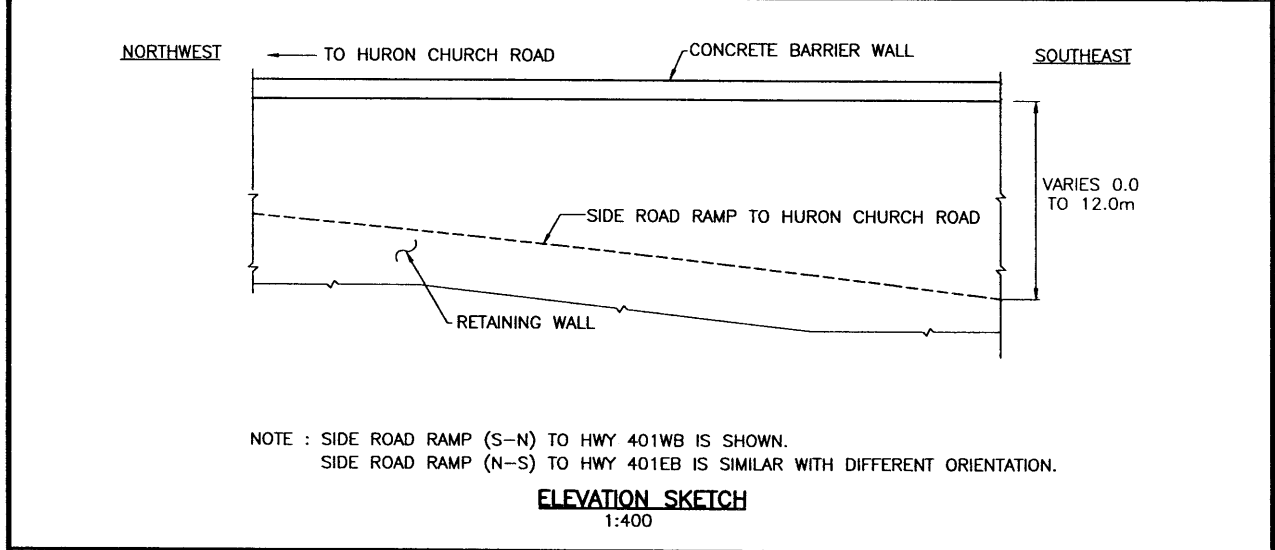
CROSS-SECTION SKETCH
1:400

LENGTH (m)	670	WIDTH (m)	----
STRUCTURAL DEPTH (m)	----	SPAN/DEPTH RATIO	----
SKEW ANGLE	----	VERTICAL CLEARANCE (m)	----
UNIT PRICE (\$/m)	NEW STRUCTURE	45,000	ESTIMATED COST (\$)
	REHABILITATION	----	
COMMENTS (SPECIAL CONSTRUCTION & DESIGN FEATURES)	- THE BOAT SECTION OF THESE RAMPS ARE DEEPER AS THE BELOW GRADE HWY 401 UNDER ADJACENT TURKEY CREEK IS DEEPER		
NAME OF CONSULTANT (FOR PLANNING)	URS CANADA INC.	DATE	FEBRUARY 2007

FILENAME: C:\DRIC\16_Structure\CADD\Planning Sheets\1B-2007REVISIONS\Bridges\Alternative-1B-July 18-2007REVISIONS.dwg
PLOT DATE: Aug 06, 2007 - 11:48am

STRUCTURAL PLANNING SHEET

W.O.NO.	----	CORRIDOR	HC-T	ROUTE	ALIGNMENT ALTERNATIVE 1B
STRUCTURE I.D.	1B-61	SITE NO.	----	LOCATION	SIDE ROAD RAMPS TO HWY 401 NEAR GRAND MARAIS ROAD WEST CROSSING (EAST SIDE)
STRUCTURE NAME	SIDE ROAD RAMPS (S-N & N-S) ON EAST OF GRAND MARAIS ROAD			<input type="checkbox"/> EXISTING <input checked="" type="checkbox"/> NEW	<input type="checkbox"/> OVERPASS <input type="checkbox"/> UNDERPASS
STRUCTURE DESCRIPTION	BOAT SECTION WITH CAISSON RETAINING WALLS OF VARIABLE HEIGHTS				

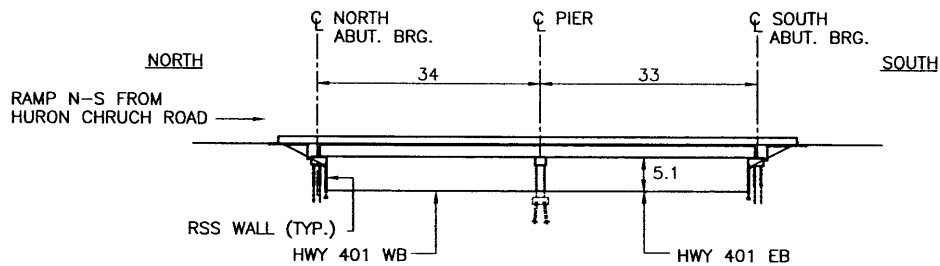


LENGTH (m)	720		WIDTH (m)	----	
STRUCTURAL DEPTH (m)	----		SPAN/DEPTH RATIO	----	
SKEW ANGLE	----		VERTICAL CLEARANCE (m)	----	
UNIT PRICE (\$/m)	NEW STRUCTURE	45,000	ESTIMATED COST (\$)	32,400,000	
	REHABILITATION	----			
COMMENTS (SPECIAL CONSTRUCTION & DESIGN FEATURES)	- THE BOAT SECTION OF THESE RAMPS ARE DEEPER AS THE BELOW GRADE HWY 401 UNDER ADJACENT TURKEY CREEK IS DEEPER.				
NAME OF CONSULTANT (FOR PLANNING)	URS CANADA INC.		DATE	FEBRUARY 2007	

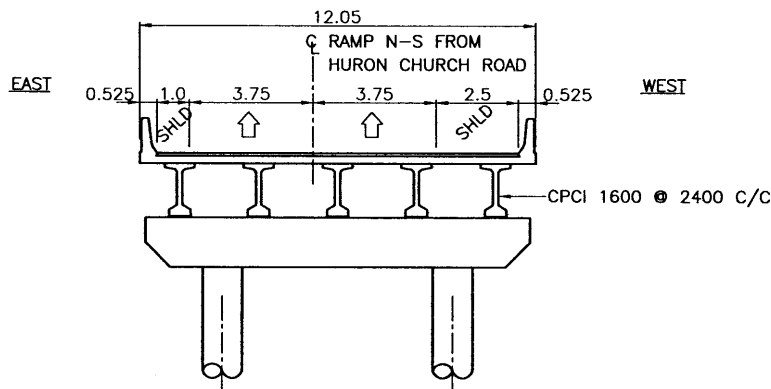
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STRUCTURAL PLANNING SHEET

W.O.NO.	----	CORRIDOR	HC-T	ROUTE	ALIGNMENT ALTERNATIVE 1B
STRUCTURE I.D.	1B-62	SITE NO.	----	LOCATION	HURON CHURCH ROAD RAMP N-S OVER HWY 401
BRIDGE NAME	HURON CHURCH ROAD RAMP N-S UNDERPASS		<input type="checkbox"/> EXISTING <input checked="" type="checkbox"/> NEW		<input type="checkbox"/> OVERPASS <input type="checkbox"/> BELOW GRADE HWY <input checked="" type="checkbox"/> UNDERPASS <input type="checkbox"/> APPROACH RAMP
STRUCTURE DESCRIPTION	TWO SPANS CPCI 1600 GIRDERS ON SEMI-INTEGRAL ABUTMENTS WITH RSS WALL				



ELEVATION SKETCH
1:1000



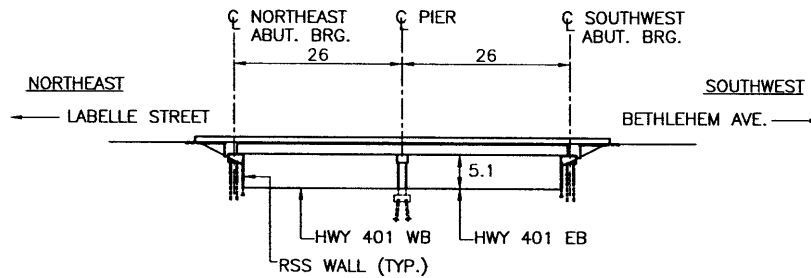
CROSS-SECTION SKETCH
1:200

LENGTH (m)	67	WIDTH (m)	12.05
STRUCTURAL DEPTH (m)	1.9	SPAN/DEPTH RATIO	18
SKIEW ANGLE	40°	VERTICAL CLEARANCE (m)	5.1
UNIT PRICE (\$/m ²)	NEW STRUCTURE	2,200	ESTIMATED COST (\$) 1,776,000
	REHABILITATION	----	
COMMENTS (SPECIAL CONSTRUCTION & DESIGN FEATURES)	- OUTER SURFACE OF RSS WALL OF ABUTMENTS TO MATCH THE RW OF DEPRESSED HWY 401 ON EITHER SIDE OF THE BRIDGE CROSSING. - SEMI-INTEGRAL ABUTMENTS DUE TO 40° SKIEW		
NAME OF CONSULTANT (FOR PLANNING)	URS CANADA INC.	DATE	FEBRUARY 2007

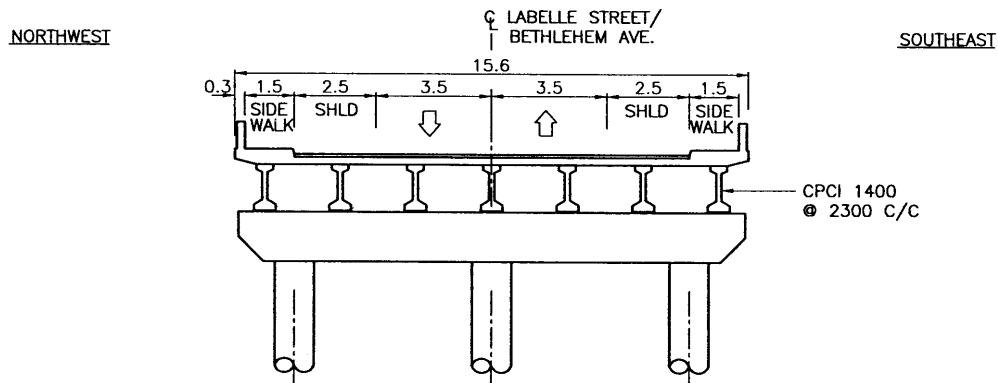
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 PLOTDATE: July 08, 2007 11:48am

STRUCTURAL PLANNING SHEET

W.O.NO.	----	CORRIDOR	HC-T	ROUTE	ALIGNMENT ALTERNATIVE 1B
STRUCTURE I.D.	1B-63	SITE NO.	----	LOCATION	LABELLE STREET /BETHLEHEM AVE. OVER HWY 401
BRIDGE NAME	LABELLE STREET/BETHLEHEM UNDERPASS			<input type="checkbox"/> EXISTING <input checked="" type="checkbox"/> NEW	<input type="checkbox"/> OVERPASS <input checked="" type="checkbox"/> UNDERPASS <input type="checkbox"/> BELOW GRADE HWY <input type="checkbox"/> APPROACH RAMP
STRUCTURE DESCRIPTION	TWO SPANS CPCI 1400 GIRDERS WITH SEMI-INTEGRAL ABUTMENTS WITH RSS WALLS				



ELEVATION SKETCH
1:1000



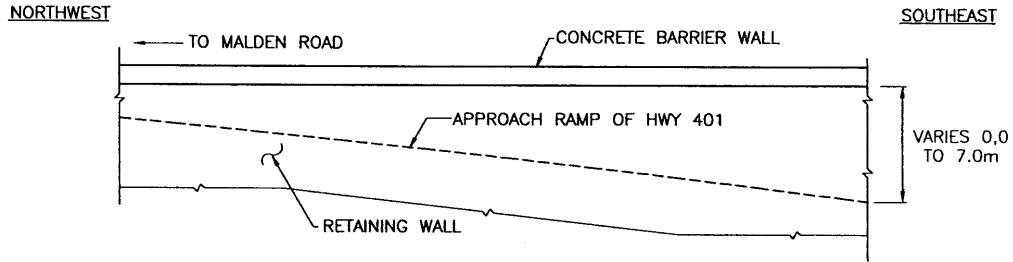
CROSS-SECTION SKETCH
1:200

LENGTH (m)	52	WIDTH (m)	15.60
STRUCTURAL DEPTH (m)	1.7	SPAN/DEPTH RATIO	15
SKEW ANGLE	35°	VERTICAL CLEARANCE (m)	5.1
UNIT PRICE (\$/m ²)	NEW STRUCTURE	2,200	ESTIMATED COST (\$) 1,785,000
	REHABILITATION	----	
COMMENTS (SPECIAL CONSTRUCTION & DESIGN FEATURES)	<ul style="list-style-type: none"> - OUTER SURFACE OF RSS WALL OF ABUTMENTS TO MATCH THE RW OF DEPRESSED HWY 401 ON EITHER SIDE OF THE BRIDGE CROSSING. - SEMI-INTEGRAL ABUTMENTS DUE TO 35° SKEW 		
NAME OF CONSULTANT (FOR PLANNING)	URS CANADA INC.	DATE	FEBRUARY 2007

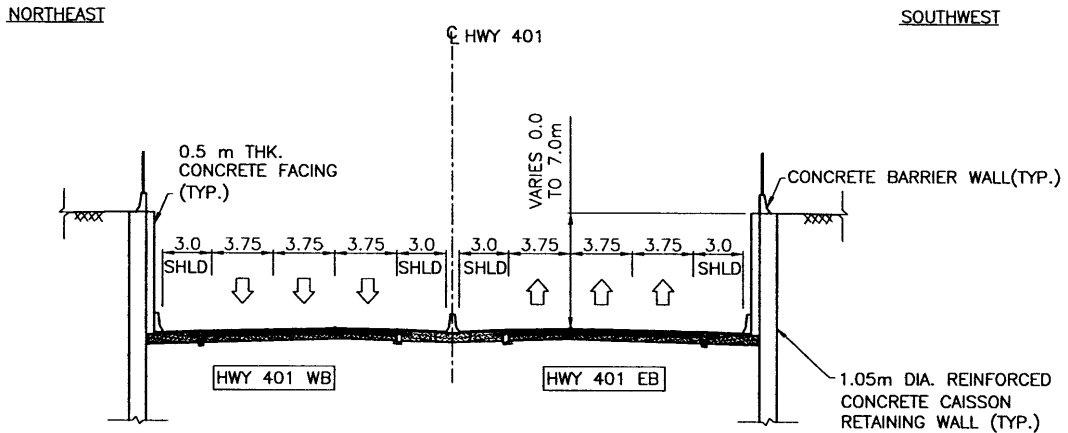
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 PLOTDATE: Aug 06, 2007 - 11:49am

STRUCTURAL PLANNING SHEET

W.O.NO.	----	CORRIDOR	HC-T	ROUTE	ALIGNMENT ALTERNATIVE 1B
STRUCTURE I.D.	1B-64	SITE NO.	----	LOCATION	HWY 401 RAMP AT WEST OF EC ROW PARKWAY
STRUCTURE NAME	APPROACH RAMP OF HWY 401 NEAR EC ROW EXPRESSWAY		<input type="checkbox"/> EXISTING <input checked="" type="checkbox"/> NEW	<input type="checkbox"/> OVERPASS <input type="checkbox"/> UNDERPASS	<input type="checkbox"/> BELOW GRADE HWY <input checked="" type="checkbox"/> APPROACH RAMP
STRUCTURE DESCRIPTION	BOAT SECTION WITH CAISSON RETAINING WALLS OF VARIABLE HEIGHTS				



ELEVATION SKETCH
1:400



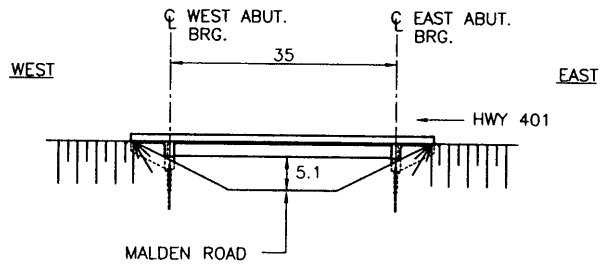
CROSS-SECTION SKETCH
1:400

LENGTH (m)	350	WIDTH (m)	----
STRUCTURAL DEPTH (m)	----	SPAN/DEPTH RATIO	----
SKEW ANGLE	----	VERTICAL CLEARANCE (m)	----
UNIT PRICE (\$/m)	NEW STRUCTURE	30,000	ESTIMATED COST (\$) 10,500,000
	REHABILITATION	----	
COMMENTS (SPECIAL CONSTRUCTION & DESIGN FEATURES)	- APPROACH RAMP OF HWY 401 IS FROM THE DEEPER BELOW GRADE HWY AT TURKEY CREEK SIDE.		
NAME OF CONSULTANT (FOR PLANNING)	URS CANADA INC.	DATE	FEBRUARY 2007

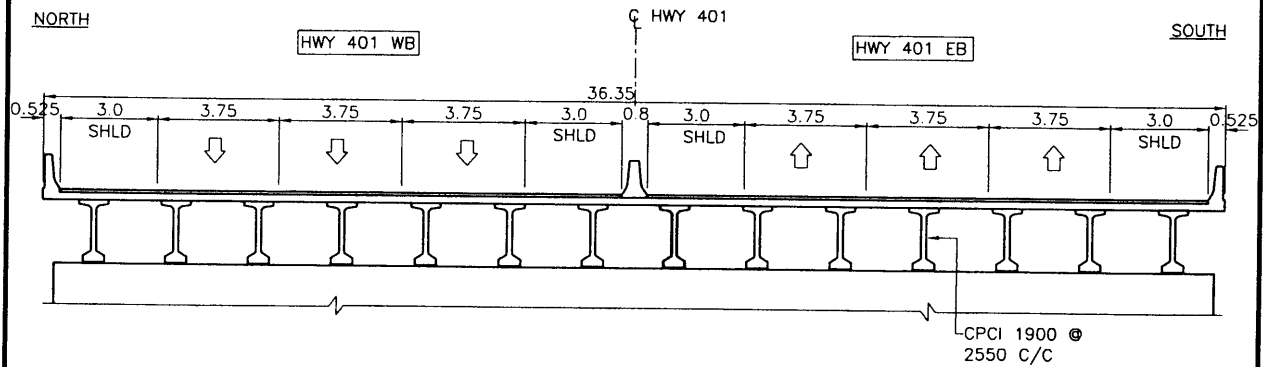
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 PLOTDATE: Aug 06, 2007 11:46am

STRUCTURAL PLANNING SHEET

W.O.NO.	----	CORRIDOR	HC-T	ROUTE	ALIGNMENT ALTERNATIVE 1B
STRUCTURE I.D.	1B-90	SITE NO.	----	LOCATION	HWY 401 ABOVE MALDEN RD
BRIDGE NAME	MALDEN ROAD OVERPASS			<input type="checkbox"/> EXISTING <input checked="" type="checkbox"/> NEW	<input checked="" type="checkbox"/> OVERPASS <input type="checkbox"/> BELOW GRADE HWY <input type="checkbox"/> UNDERPASS <input type="checkbox"/> APPROACH RAMP
STRUCTURE DESCRIPTION	SINGLE SPAN CPCI 1900 GIRDERS WITH INTEGRAL ABUTMENTS				



ELEVATION SKETCH
1:1000



CROSS-SECTION SKETCH
1:200

LENGTH (m)	35	WIDTH (m)	36.35
STRUCTURAL DEPTH (m)	2.2	SPAN/DEPTH RATIO	16
SKEW ANGLE	15°	VERTICAL CLEARANCE (m)	5.1

UNIT PRICE (\$/m ²)	NEW STRUCTURE	2,000	ESTIMATED COST (\$)	2,545,000
	REHABILITATION	----		

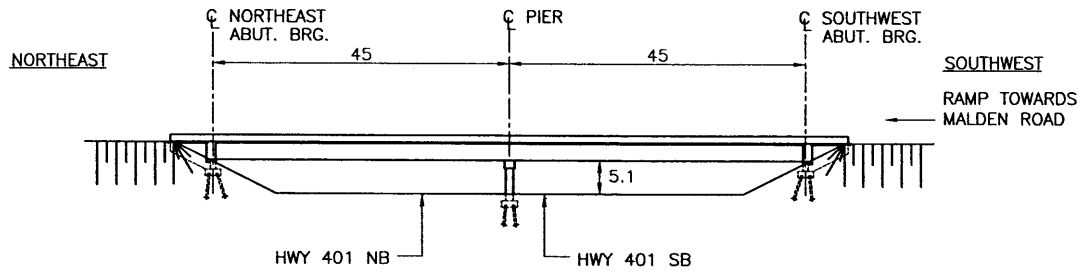
COMMENTS (SPECIAL CONSTRUCTION & DESIGN FEATURES)
 HWY 401 CROSSES OVER MALDEN ROAD ON SKEW. HOWEVER THE RECTANGULAR BRIDGE DECK IS CONSIDERED.

NAME OF CONSULTANT (FOR PLANNING)	URS CANADA INC.	DATE	MAY 2007
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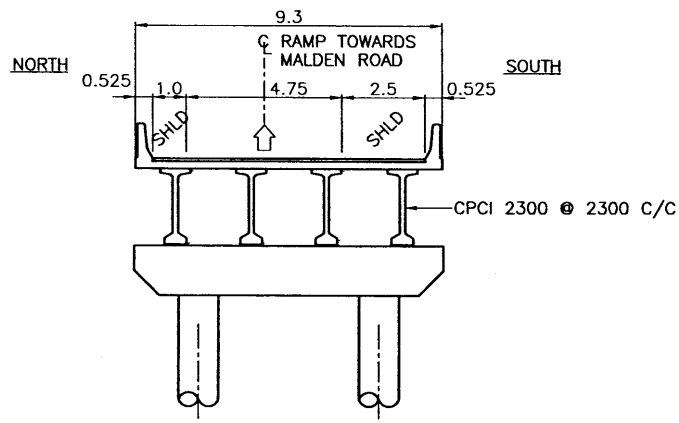
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 PLOT DATE: Nov 02, 2007 - 1:23pm

STRUCTURAL PLANNING SHEET

W.O.NO.	----	CORRIDOR	HC-T	ROUTE	ALIGNMENT ALTERNATIVE 1B
STRUCTURE I.D.	1B-91	SITE NO.	----	LOCATION	RAMP TOWARDS MALDEN ROAD ABOVE HWY 401
BRIDGE NAME	RAMP W-E UNDERPASS			<input type="checkbox"/> EXISTING <input checked="" type="checkbox"/> NEW	<input type="checkbox"/> OVERPASS <input type="checkbox"/> BELOW GRADE HWY <input checked="" type="checkbox"/> UNDERPASS <input type="checkbox"/> APPROACH RAMP
STRUCTURE DESCRIPTION	TWO SPANS CPCI 2300 GIRDERS WITH SEMI-INTEGRAL ABUTMENTS				



ELEVATION SKETCH
1:1000



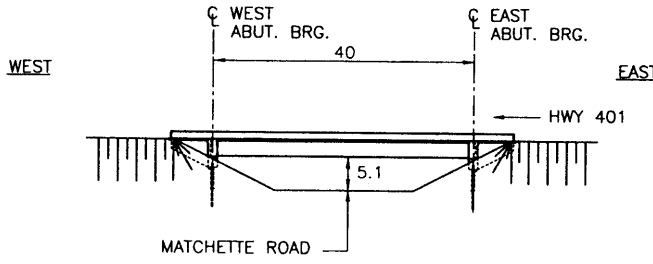
CROSS-SECTION SKETCH
1:200

LENGTH (m)	90	WIDTH (m)	9.30
STRUCTURAL DEPTH (m)	2.6	SPAN/DEPTH RATIO	17
SKEW ANGLE	55°	VERTICAL CLEARANCE (m)	5.1
UNIT PRICE (\$/m ²)	NEW STRUCTURE	2,100	ESTIMATED COST (\$) 1,758,000
	REHABILITATION	----	
COMMENTS (SPECIAL CONSTRUCTION & DESIGN FEATURES)	SEMI-INTEGRAL ABUTMENTS DUE TO 55° SKEW		
NAME OF CONSULTANT (FOR PLANNING)	URS CANADA INC.	DATE	FEBRUARY 2007

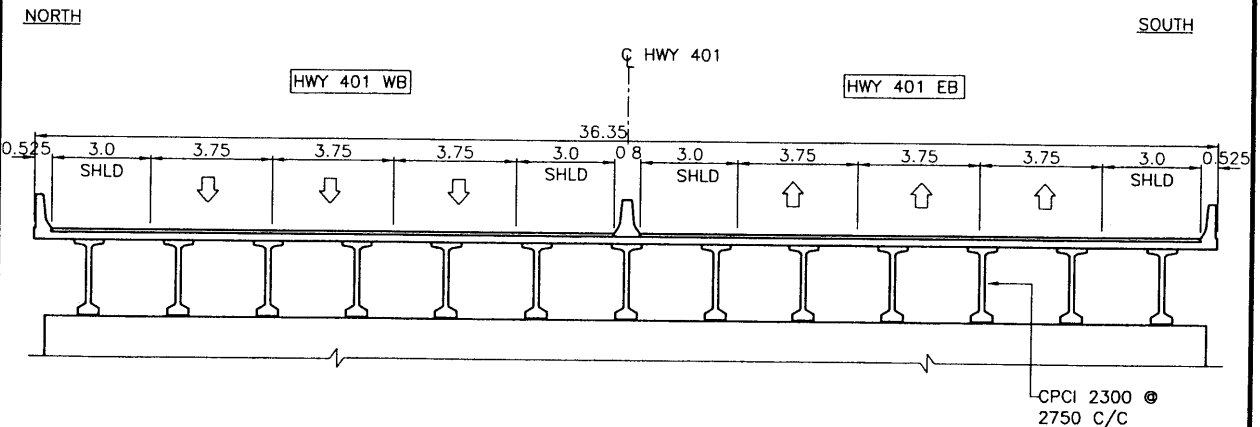
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 PLOT DATE: Aug 06, 2007 - 11:50am

STRUCTURAL PLANNING SHEET

W.O.NO.	----	CORRIDOR	HC-T	ROUTE	ALIGNMENT ALTERNATIVE 1B
STRUCTURE I.D.	1B-92	SITE NO.	----	LOCATION	HWY 401 MATCHETTE RD.
BRIDGE NAME	MATCHETTE ROAD OVERPASS			<input type="checkbox"/> EXISTING <input checked="" type="checkbox"/> NEW	<input checked="" type="checkbox"/> OVERPASS <input type="checkbox"/> UNDERPASS <input type="checkbox"/> BELOW GRADE HWY <input type="checkbox"/> APPROACH RAMP
STRUCTURE DESCRIPTION	SINGLE SPAN CPCI 2300 GIRDERS WITH INTEGRAL ABUTMENTS				



ELEVATION SKETCH
1:1000



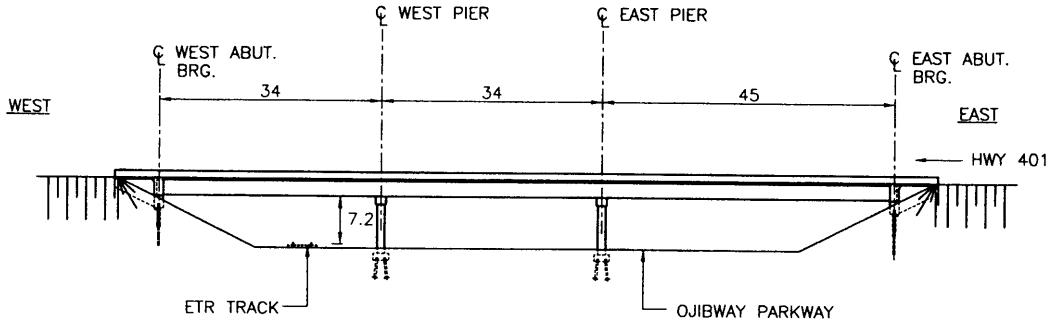
CROSS-SECTION SKETCH
1:200

LENGTH (m)	40	WIDTH (m)	36.35
STRUCTURAL DEPTH (m)	2.6	SPAN/DEPTH RATIO	16
SKEW ANGLE	20'	VERTICAL CLEARANCE (m)	5.1
UNIT PRICE (\$/m ²)	NEW STRUCTURE	2,000	ESTIMATED COST (\$)
	REHABILITATION	----	
COMMENTS (SPECIAL CONSTRUCTION & DESIGN FEATURES)	HWY 401 CROSSES ABOVE MATCHETTE ROAD ON SKEW, HOWEVER RECTANGULAR BRIDGE DECK IS CONSIDERED.		
NAME OF CONSULTANT (FOR PLANNING)	URS CANADA INC.	DATE	MAY 2007

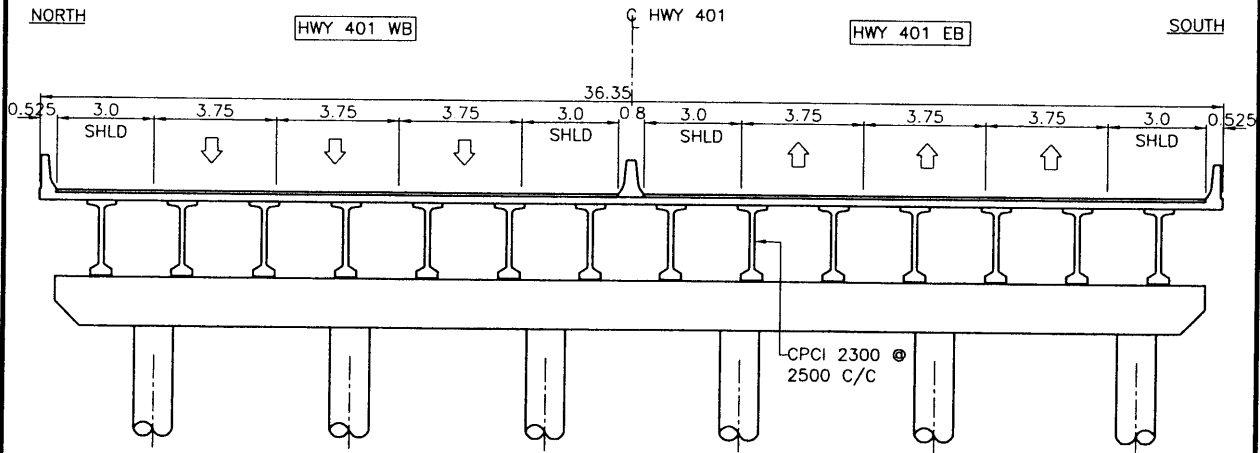
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STRUCTURAL PLANNING SHEET

W.O.NO.	----	CORRIDOR	HC-T	ROUTE	ALIGNMENT ALTERNATIVE 1B
STRUCTURE I.D.	1B-93	SITE NO.	----	LOCATION	HWY 401 OVER OJIBWAY PKWY & ETR TRACK
BRIDGE NAME	OJIBWAY/ETR OVERPASS			<input type="checkbox"/> EXISTING <input checked="" type="checkbox"/> NEW	<input checked="" type="checkbox"/> OVERPASS <input type="checkbox"/> BELOW GRADE HWY <input type="checkbox"/> UNDERPASS <input type="checkbox"/> APPROACH RAMP
STRUCTURE DESCRIPTION	THREE SPANS CPCI 2300 GIRDERS WITH INTEGRAL ABUTMENTS				



ELEVATION SKETCH
1:1000



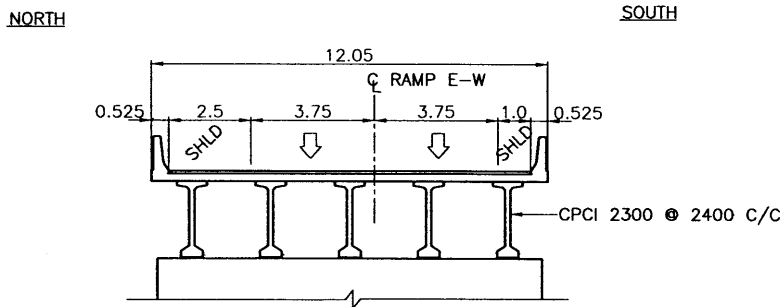
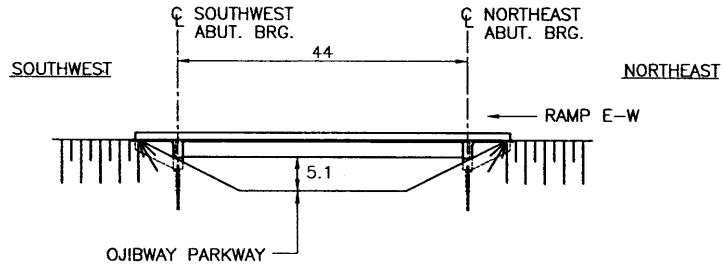
CROSS-SECTION SKETCH
1:200

LENGTH (m)	113	WIDTH (m)	36.35
STRUCTURAL DEPTH (m)	2.6	SPAN/DEPTH RATIO	17
SKEW ANGLE	20° (OJIBWAY PKWY) 0° (ETR)	VERTICAL CLEARANCE (m)	7.1
UNIT PRICE (\$/m ²)	NEW STRUCTURE	2,500	ESTIMATED COST (\$)
	REHABILITATION	----	
COMMENTS (SPECIAL CONSTRUCTION & DESIGN FEATURES)	HWY 401 CROSSING ABOVE OJIBWAY PARKWAY NEAR NEW INTERCHANGE AT EC ROW PARKWAY AND ESSEX TERMINAL RAILWAY (ETR) TRACK.		
NAME OF CONSULTANT (FOR PLANNING)	URS CANADA INC.	DATE	MAY 2007

FILENAME: C:\DRIVE\18_Structure\CADD\Planning Sheets\ Hwy Alternatives\2007\Bridges-Alt-05-May15-2007\ BridgeAlternative-1B-May15-2007.dwg
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STRUCTURAL PLANNING SHEET

W.O.NO.	----	CORRIDOR	HC-T	ROUTE	ALIGNMENT ALTERNATIVE 1B
STRUCTURE I.D.	1B-94	SITE NO.	----	LOCATION	RAMP E-W ABOVE OJIBWAY PKWY
BRIDGE NAME	RAMP E-W AT OJIBWAY PARKWAY OVERPASS			<input type="checkbox"/> EXISTING <input checked="" type="checkbox"/> NEW	<input checked="" type="checkbox"/> OVERPASS <input type="checkbox"/> BELOW GRADE HWY <input type="checkbox"/> UNDERPASS <input type="checkbox"/> APPROACH RAMP
STRUCTURE DESCRIPTION	SINGLE SPAN CPCI 2300 GIRDERS WITH INTEGRAL ABUTMENTS				

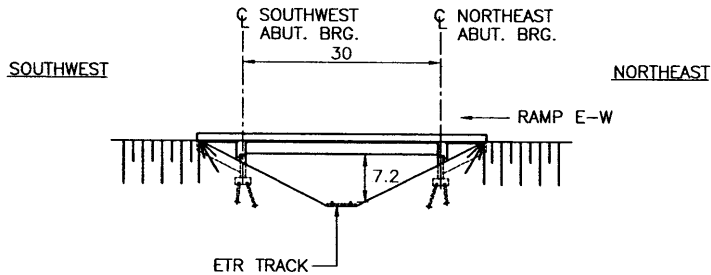


LENGTH (m)	44	WIDTH (m)	12.05
STRUCTURAL DEPTH (m)	2.6	SPAN/DEPTH RATIO	17
SKEW ANGLE	20°	VERTICAL CLEARANCE (m)	5.1
UNIT PRICE (\$/m ²)	NEW STRUCTURE	2,000	ESTIMATED COST (\$) 1,060,000
	REHABILITATION	----	
COMMENTS (SPECIAL CONSTRUCTION & DESIGN FEATURES)	E-W RAMP CROSSES ABOVE OJIBWAY PARKWAY ON SKEW. HOWEVER RECTANGULAR BRIDGE DECK IS CONSIDERED.		
NAME OF CONSULTANT (FOR PLANNING)	URS CANADA INC.	DATE	FEBRUARY 2007

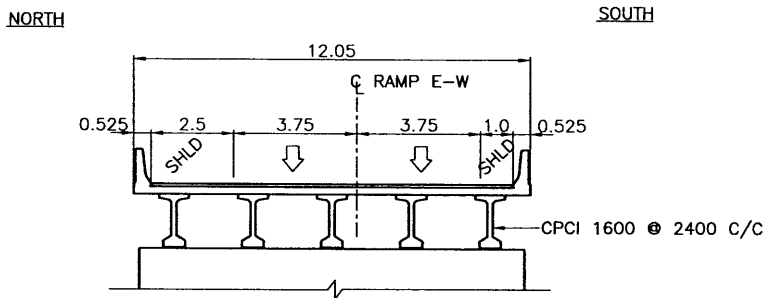
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STRUCTURAL PLANNING SHEET

W.O.NO.	----	CORRIDOR	HC-T	ROUTE	ALIGNMENT ALTERNATIVE 1B
STRUCTURE I.D.	1B-95	SITE NO.	----	LOCATION	E-W RAMP OVER ETR TRACK
BRIDGE NAME	RAMP E-W AT ETR OVERPASS			<input type="checkbox"/> EXISTING <input checked="" type="checkbox"/> NEW	<input checked="" type="checkbox"/> OVERPASS <input type="checkbox"/> UNDERPASS <input type="checkbox"/> BELOW GRADE HWY <input type="checkbox"/> APPROACH RAMP
STRUCTURE DESCRIPTION	SINGLE SPAN CPCI 1600 GIRDERS WITH SEMI-INTEGRAL ABUTMENTS				



ELEVATION SKETCH
1:1000



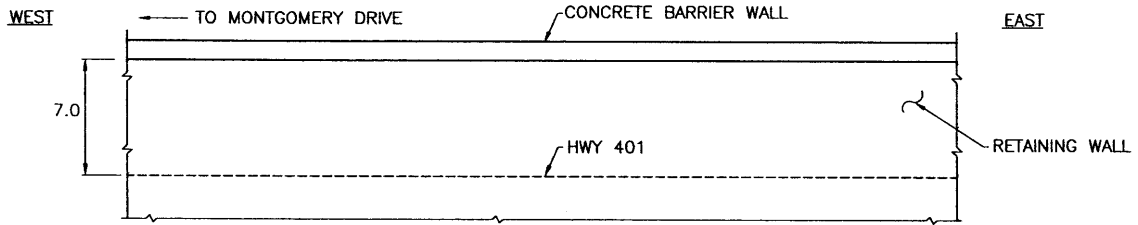
CROSS-SECTION SKETCH
1:200

LENGTH (m)	30	WIDTH (m)	12.05	
STRUCTURAL DEPTH (m)	1.9	SPAN/DEPTH RATIO	16	
SKEW ANGLE	35°	VERTICAL CLEARANCE (m)	7.1	
UNIT PRICE (\$/m ²)	NEW STRUCTURE	2,500	ESTIMATED COST (\$)	904,000
	REHABILITATION	----		
COMMENTS (SPECIAL CONSTRUCTION & DESIGN FEATURES)	- E-W RAMP CROSSES ABOVE ESSEX TERMINAL RAILWAY (ETR) TRACK ON SKEW. HOWEVER RECTANGULAR BRIDGE DECK IS CONSIDERED. - SEMI-INTEGRAL ABUTMENTS DUE TO 35° SKEW			
NAME OF CONSULTANT (FOR PLANNING)	URS CANADA INC.	DATE	FEBRUARY 2007	

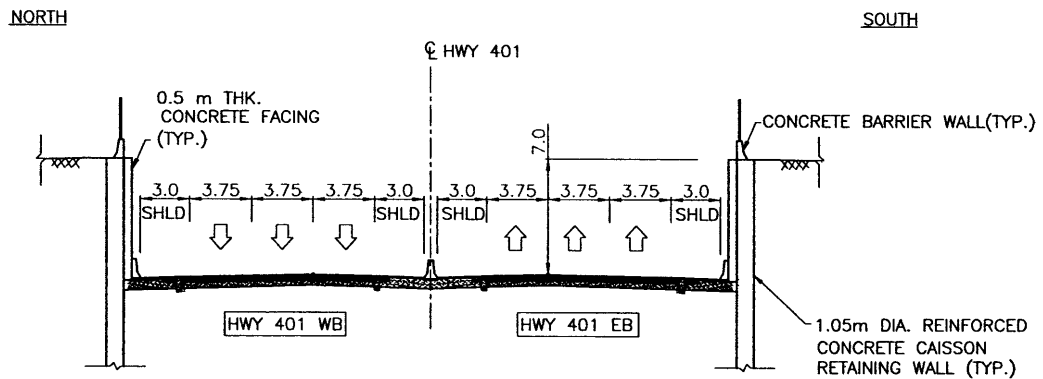
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 PLOT DATE: Aug 06, 2007 - 11:50am

STRUCTURAL PLANNING SHEET

W.O.NO.	----	CORRIDOR	HC-T	ROUTE	ALIGNMENT ALTERNATIVE 1B
STRUCTURE I.D.	1B-202	SITE NO.	----	LOCATION	HWY 401 AT WEST OF HOWARD AVENUE
STRUCTURE NAME	BELOW GRADE HWY 401 BETWEEN HOWARD AVENUE AND MONTGOMERY DRIVE		<input type="checkbox"/> EXISTING <input checked="" type="checkbox"/> NEW	<input type="checkbox"/> OVERPASS <input type="checkbox"/> UNDERPASS	<input checked="" type="checkbox"/> BELOW GRADE HWY <input type="checkbox"/> APPROACH RAMP
STRUCTURE DESCRIPTION	BOAT SECTION WITH CAISSON RETAINING WALLS OF UNIFORM HEIGHTS				



ELEVATION SKETCH
1:400



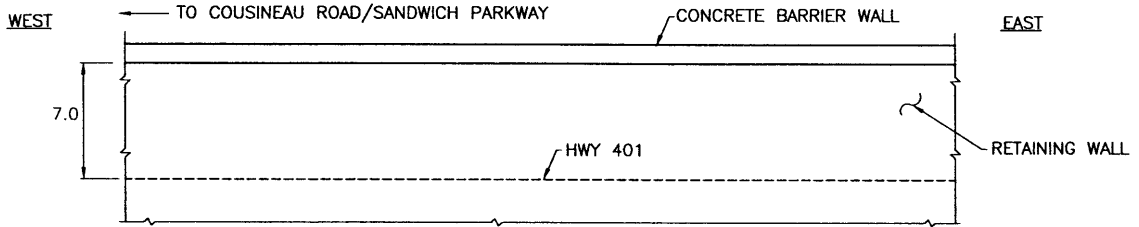
CROSS-SECTION SKETCH
1:400

LENGTH (m)	800	WIDTH (m)	----
STRUCTURAL DEPTH (m)	----	SPAN/DEPTH RATIO	----
SKEW ANGLE	----	VERTICAL CLEARANCE (m)	----
UNIT PRICE (\$/m)	NEW STRUCTURE	45,000	ESTIMATED COST (\$) 36,000,000
	REHABILITATION	----	
COMMENTS (SPECIAL CONSTRUCTION & DESIGN FEATURES)	----		
NAME OF CONSULTANT (FOR PLANNING)	URS CANADA INC.	DATE	FEBRUARY 2007

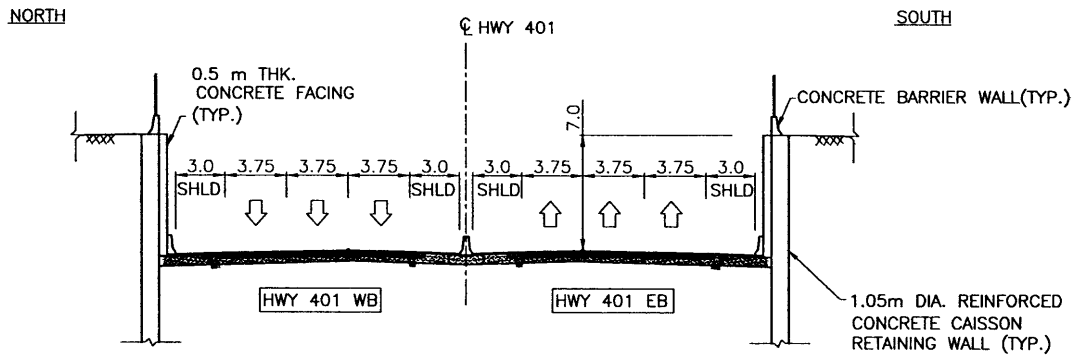
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 PLOTDATE: Aug 06, 2007 - 11:56am

STRUCTURAL PLANNING SHEET

W.O.NO.	----	CORRIDOR	HC-T	ROUTE	ALIGNMENT ALTERNATIVE 1B
STRUCTURE I.D.	1B-203	SITE NO.	----	LOCATION	HWY 401 AT WEST OF MONTGOMERY DRIVE
STRUCTURE NAME	BELOW GRADE HWY 401 AT WEST OF MONTGOMERY DRIVE		<input type="checkbox"/> EXISTING <input checked="" type="checkbox"/> NEW	<input type="checkbox"/> OVERPASS <input type="checkbox"/> UNDERPASS	<input checked="" type="checkbox"/> BELOW GRADE HWY <input type="checkbox"/> APPROACH RAMP
STRUCTURE DESCRIPTION	BOAT SECTION WITH CAISSON RETAINING WALLS OF UNIFORM HEIGHTS				



ELEVATION SKETCH
1:400



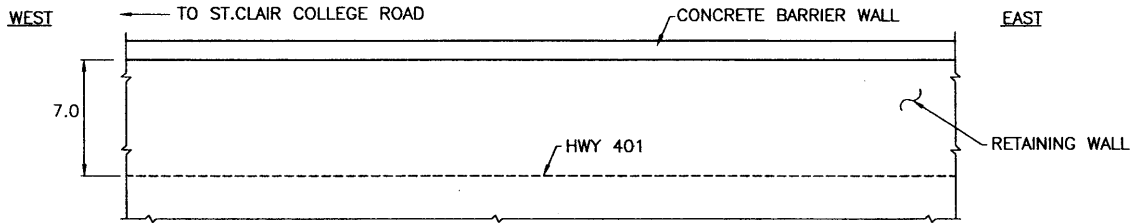
CROSS-SECTION SKETCH
1:400

LENGTH (m)	600	WIDTH (m)	----
STRUCTURAL DEPTH (m)	----	SPAN/DEPTH RATIO	----
SKEW ANGLE	----	VERTICAL CLEARANCE (m)	----
UNIT PRICE (\$/m)	NEW STRUCTURE	45,000	ESTIMATED COST (\$) 27,000,000
	REHABILITATION	----	
COMMENTS (SPECIAL CONSTRUCTION & DESIGN FEATURES)	----		
NAME OF CONSULTANT (FOR PLANNING)	URS CANADA INC.	DATE	FEBRUARY 2007

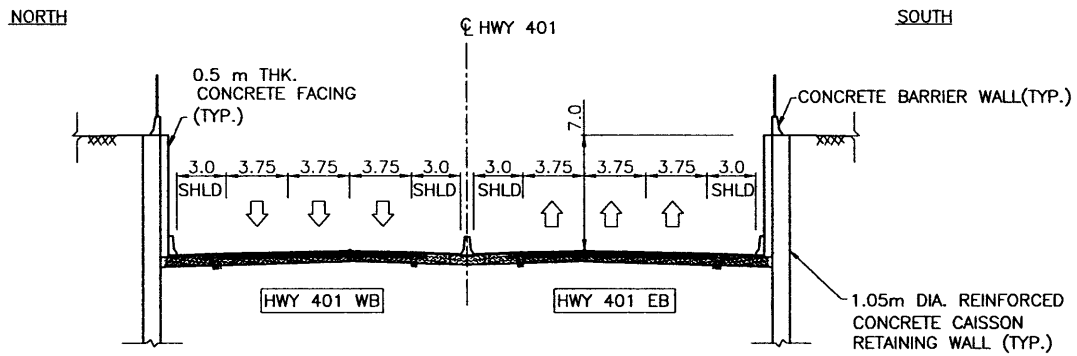
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STRUCTURAL PLANNING SHEET

W.O.NO.	----	CORRIDOR	HC-T	ROUTE	ALIGNMENT ALTERNATIVE 1B
STRUCTURE I.D.	1B-211	SITE NO.	----	LOCATION	HWY 401 AT WEST OF COUSINEAU ROAD
STRUCTURE NAME	BELOW GRADE HWY 401 BETWEEN COUSINEAU ROAD AND ST.CLAIR COLLEGE ROAD			<input type="checkbox"/> EXISTING <input checked="" type="checkbox"/> NEW	<input type="checkbox"/> OVERPASS <input checked="" type="checkbox"/> BELOW GRADE HWY <input type="checkbox"/> UNDERPASS <input type="checkbox"/> APPROACH RAMP
STRUCTURE DESCRIPTION	BOAT SECTION WITH CAISSON RETAINING WALLS OF UNIFORM HEIGHTS				



ELEVATION SKETCH
1:400



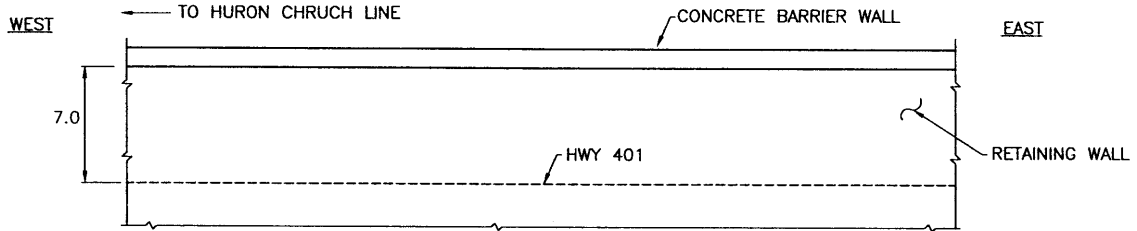
CROSS-SECTION SKETCH
1:400

LENGTH (m)	475	WIDTH (m)	----
STRUCTURAL DEPTH (m)	----	SPAN/DEPTH RATIO	----
SKEW ANGLE	----	VERTICAL CLEARANCE (m)	----
UNIT PRICE (\$/m)	NEW STRUCTURE	45,000	ESTIMATED COST (\$) 21,375,000
	REHABILITATION	----	
COMMENTS (SPECIAL CONSTRUCTION & DESIGN FEATURES)			
NAME OF CONSULTANT (FOR PLANNING)	URS CANADA INC.	DATE	FEBRUARY 2007

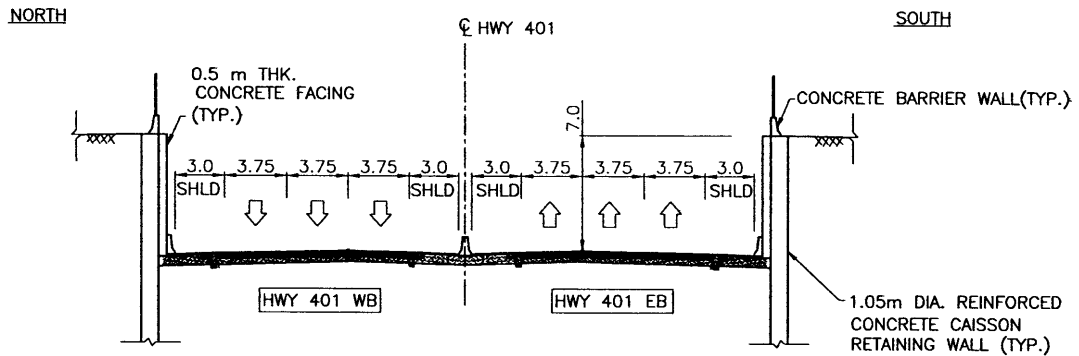
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STRUCTURAL PLANNING SHEET

W.O.NO.	----	CORRIDOR	HC-T	ROUTE	ALIGNMENT ALTERNATIVE 1B
STRUCTURE I.D.	1B-212	SITE NO.	----	LOCATION	HWY 401 AT WEST OF ST.CLAIR COLLEGE ROAD
STRUCTURE NAME	BELOW GRADE HWY 401 AT WEST OF ST.CLAIR COLLEGE ROAD		<input type="checkbox"/> EXISTING <input checked="" type="checkbox"/> NEW	<input type="checkbox"/> OVERPASS <input type="checkbox"/> UNDERPASS	<input checked="" type="checkbox"/> BELOW GRADE HWY <input type="checkbox"/> APPROACH RAMP
STRUCTURE DESCRIPTION	BOAT SECTION WITH CAISSON RETAINING WALLS OF UNIFORM HEIGHTS				



ELEVATION SKETCH
1:400



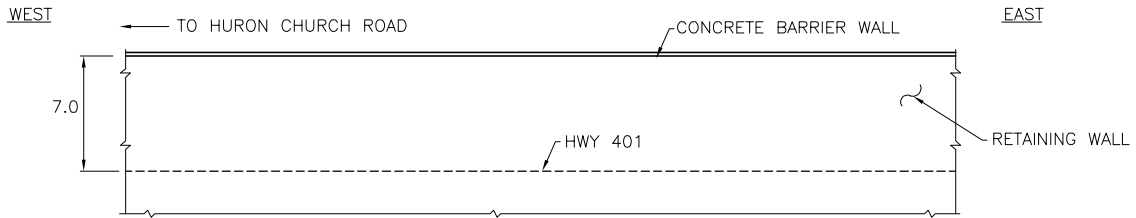
CROSS-SECTION SKETCH
1:400

LENGTH (m)	425	WIDTH (m)	----
STRUCTURAL DEPTH (m)	----	SPAN/DEPTH RATIO	----
SKEW ANGLE	----	VERTICAL CLEARANCE (m)	----
UNIT PRICE (\$/m)	NEW STRUCTURE	45,000	ESTIMATED COST (\$) 19,125,000
	REHABILITATION	----	
COMMENTS (SPECIAL CONSTRUCTION & DESIGN FEATURES)			
NAME OF CONSULTANT (FOR PLANNING)	URS CANADA INC.	DATE	FEBRUARY 2007

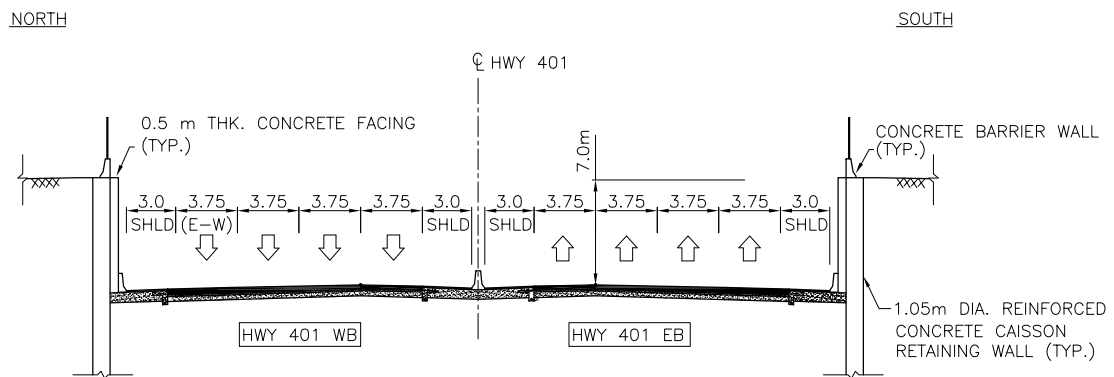
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STRUCTURAL PLANNING SHEET

W.O.NO.	----	CORRIDOR	HC-T	ROUTE	ALIGNMENT ALTERNATIVE 1B
STRUCTURE I.D.	1B-213	SITE NO.	----	LOCATION	HWY 401 AT WEST OF ST.CLAIR COLLEGE ROAD
STRUCTURE NAME	BELOW GRADE HWY 401 AT WEST OF ST.CLAIR COLLEGE ROAD		<input type="checkbox"/> EXISTING <input checked="" type="checkbox"/> NEW		<input type="checkbox"/> OVERPASS <input type="checkbox"/> UNDERPASS <input checked="" type="checkbox"/> BELOW GRADE HWY <input type="checkbox"/> APPROACH RAMP
STRUCTURE DESCRIPTION	BOAT SECTION WITH CAISSON RETAINING WALLS OF UNIFORM HEIGHTS				



ELEVATION SKETCH
1:400



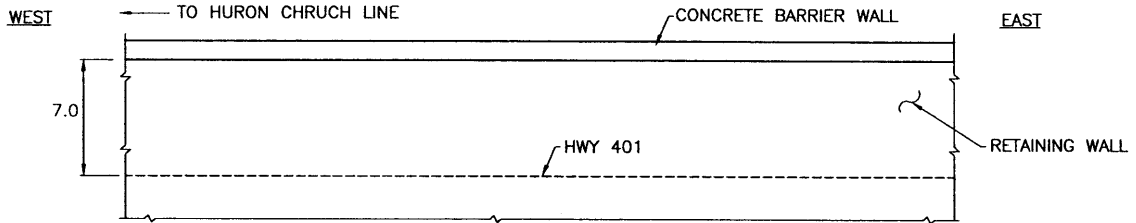
CROSS-SECTION SKETCH
1:400

LENGTH (m)	250		WIDTH (m)	----	
STRUCTURAL DEPTH (m)	----		SPAN/DEPTH RATIO	----	
SKEW ANGLE	----		VERTICAL CLEARANCE (m)	----	
UNIT PRICE (\$/m)	NEW STRUCTURE	45,000	ESTIMATED COST (\$)	11,250,000	
	REHABILITATION	----			
COMMENTS (SPECIAL CONSTRUCTION & DESIGN FEATURES)	- WIDER PORTION OF BELOW GRADE HWY 401 WITH RAMP E-W ON ONE SIDE.				
NAME OF CONSULTANT (FOR PLANNING)	URS CANADA INC.		DATE	FEBRUARY 2007	

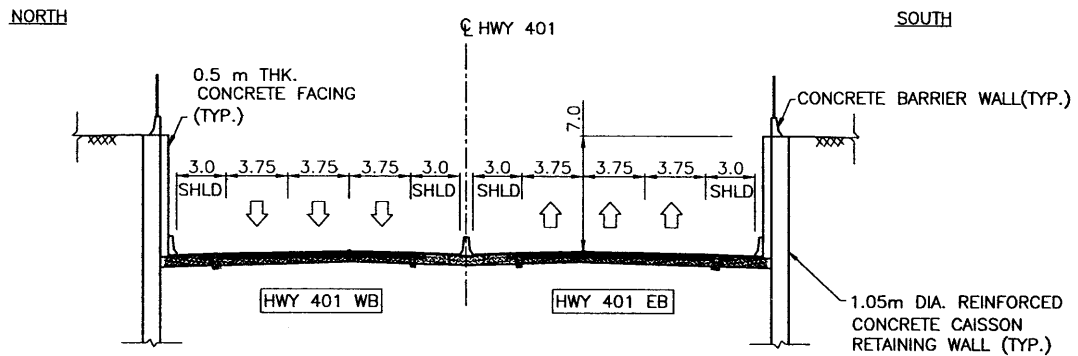
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STRUCTURAL PLANNING SHEET

W.O.NO.	----	CORRIDOR	HC-T	ROUTE	ALIGNMENT ALTERNATIVE 1B
STRUCTURE I.D.	1B-214	SITE NO.	----	LOCATION	HWY 401 AT EAST OF HURON CHRUCH LINE
STRUCTURE NAME	BELOW GRADE HWY 401 AT EAST OF HURON CHRUCH LINE		<input type="checkbox"/> EXISTING <input checked="" type="checkbox"/> NEW	<input type="checkbox"/> OVERPASS <input type="checkbox"/> UNDERPASS	<input checked="" type="checkbox"/> BELOW GRADE HWY <input type="checkbox"/> APPROACH RAMP
STRUCTURE DESCRIPTION	BOAT SECTION WITH CAISSON RETAINING WALLS OF UNIFORM HEIGHTS				



ELEVATION SKETCH
1:400



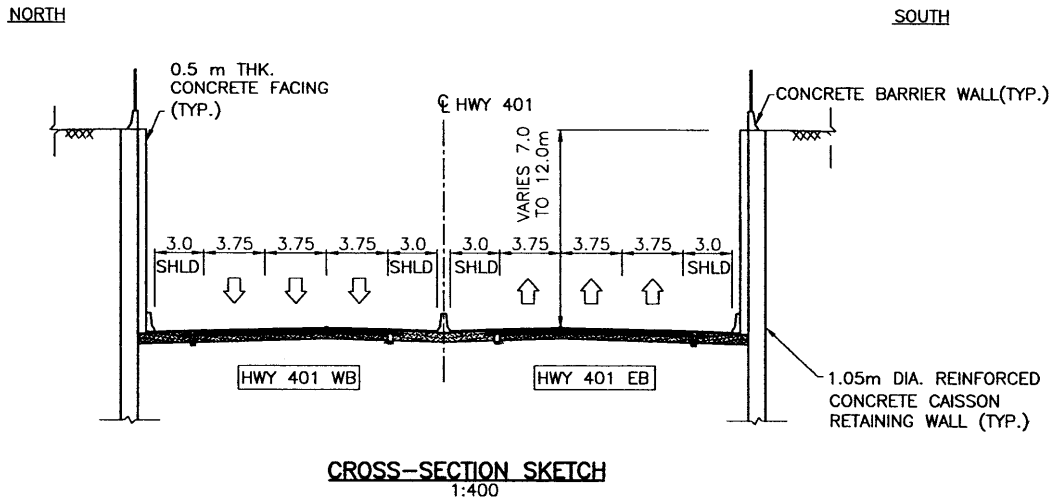
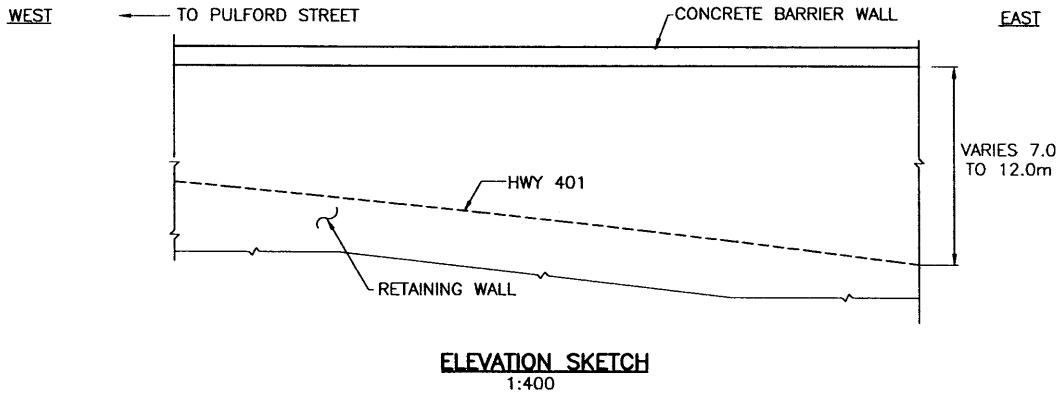
CROSS-SECTION SKETCH
1:400

LENGTH (m)	425	WIDTH (m)	----
STRUCTURAL DEPTH (m)	----	SPAN/DEPTH RATIO	----
SKEW ANGLE	----	VERTICAL CLEARANCE (m)	----
UNIT PRICE (\$/m)	NEW STRUCTURE	45,000	ESTIMATED COST (\$) 19,125,000
	REHABILITATION	----	
COMMENTS (SPECIAL CONSTRUCTION & DESIGN FEATURES)	----		
NAME OF CONSULTANT (FOR PLANNING)	URS CANADA INC.	DATE	FEBRUARY 2007

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STRUCTURAL PLANNING SHEET

W.O.NO.	----	CORRIDOR	HC-T	ROUTE	ALIGNMENT ALTERNATIVE 1B
STRUCTURE I.D.	1B-221	SITE NO.	----	LOCATION	HWY 401 AT WEST OF CABANA ROAD WEST/ TODD LANE
STRUCTURE NAME	BELOW GRADE HWY 401 AT WEST OF TODD LANE		<input type="checkbox"/> EXISTING <input checked="" type="checkbox"/> NEW		<input type="checkbox"/> OVERPASS <input checked="" type="checkbox"/> BELOW GRADE HWY <input type="checkbox"/> UNDERPASS <input type="checkbox"/> APPROACH RAMP
STRUCTURE DESCRIPTION	BOAT SECTION WITH CAISSON RETAINING WALLS OF VARIABLE HEIGHTS				

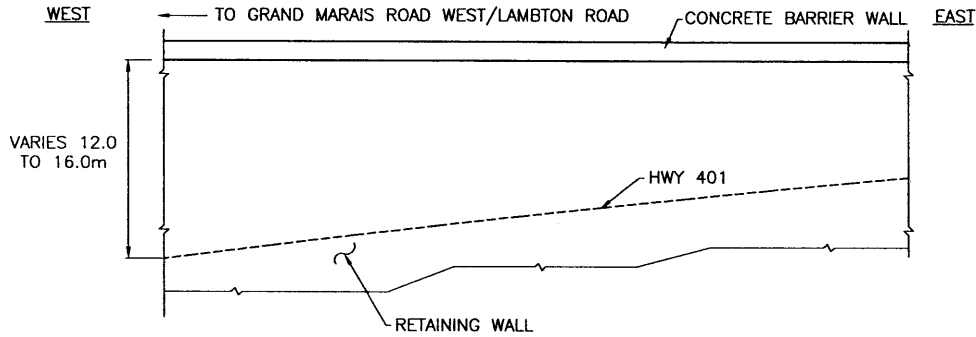


LENGTH (m)	400	WIDTH (m)	----
STRUCTURAL DEPTH (m)	----	SPAN/DEPTH RATIO	----
SKEW ANGLE	----	VERTICAL CLEARANCE (m)	----
UNIT PRICE (\$/m)	NEW STRUCTURE	65,000	ESTIMATED COST (\$)
	REHABILITATION	----	
COMMENTS (SPECIAL CONSTRUCTION & DESIGN FEATURES)	- DEEPER PORTION OF BELOW GRADE HWY 401		
NAME OF CONSULTANT (FOR PLANNING)	URS CANADA INC.	DATE	FEBRUARY 2007

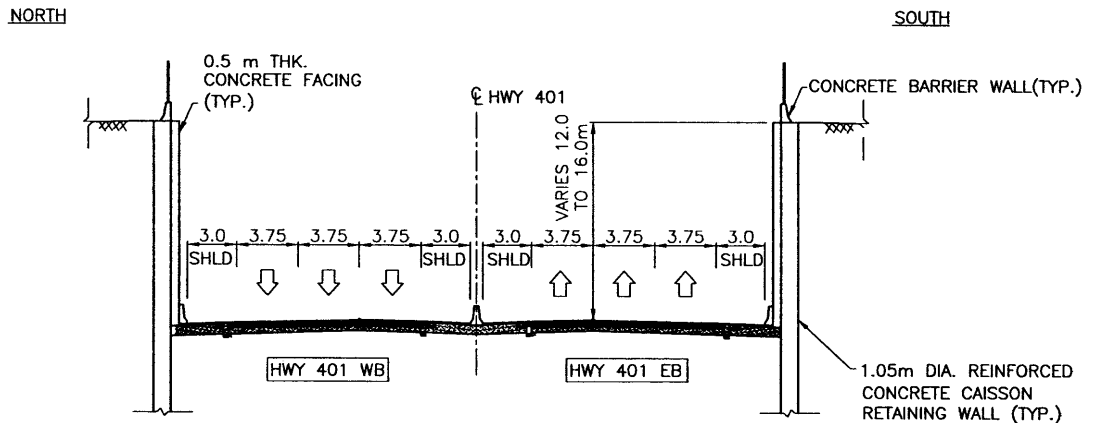
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STRUCTURAL PLANNING SHEET

W.O.NO.	----	CORRIDOR	HC-T	ROUTE	ALIGNMENT ALTERNATIVE 1B
STRUCTURE I.D.	1B-223	SITE NO.	----	LOCATION	HWY 401 AT WEST OF PULFORD STREET
STRUCTURE NAME	BELOW GRADE HWY 401 BETWEEN PULFORD STREET AND GRAND MARAIS ROAD WEST/LAMBTON ROAD		<input type="checkbox"/> EXISTING <input checked="" type="checkbox"/> NEW	<input type="checkbox"/> OVERPASS <input type="checkbox"/> UNDERPASS	<input checked="" type="checkbox"/> BELOW GRADE HWY <input type="checkbox"/> APPROACH RAMP
STRUCTURE DESCRIPTION	BOAT SECTION WITH CAISSON RETAINING WALLS OF VARIABLE HEIGHTS				



ELEVATION SKETCH
1:400



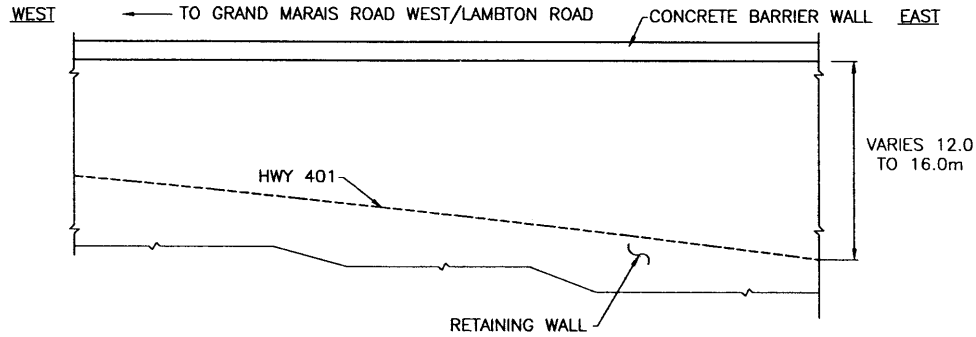
CROSS-SECTION SKETCH
1:400

LENGTH (m)	325	WIDTH (m)	----	
STRUCTURAL DEPTH (m)	----	SPAN/DEPTH RATIO	----	
SKREW ANGLE	----	VERTICAL CLEARANCE (m)	----	
UNIT PRICE (\$/m)	NEW STRUCTURE	75,000	ESTIMATED COST (\$)	24,375,000
	REHABILITATION	----		
COMMENTS (SPECIAL CONSTRUCTION & DESIGN FEATURES)	- DEEPER PORTION OF BELOW GRADE HWY 401			
NAME OF CONSULTANT (FOR PLANNING)	URS CANADA INC.	DATE	FEBRUARY 2007	

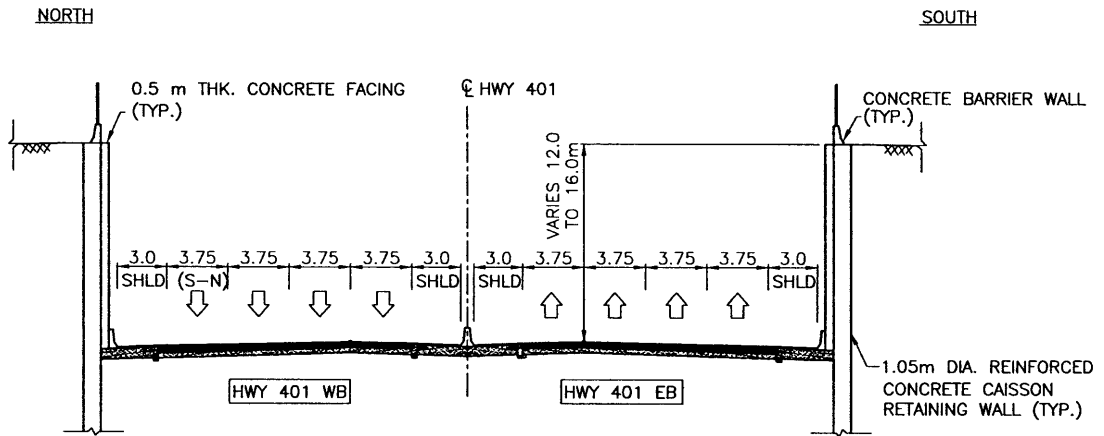
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STRUCTURAL PLANNING SHEET

W.O.NO.	----	CORRIDOR	HC-T	ROUTE	ALIGNMENT ALTERNATIVE 1B
STRUCTURE I.D.	1B-224	SITE NO.	----	LOCATION	HWY 401 AT EAST OF GRAND MARAIS ROAD WEST/LAMBTON ROAD
STRUCTURE NAME	BELOW GRADE HWY 401 AT EAST OF GRAND MARAIS ROAD WEST/LAMBTON ROAD		<input type="checkbox"/> EXISTING <input checked="" type="checkbox"/> NEW	<input type="checkbox"/> OVERPASS <input type="checkbox"/> UNDERPASS	<input checked="" type="checkbox"/> BELOW GRADE HWY <input type="checkbox"/> APPROACH RAMP
STRUCTURE DESCRIPTION	BOAT SECTION WITH CAISSON RETAINING WALLS OF VARIABLE HEIGHTS				



ELEVATION SKETCH
1:400



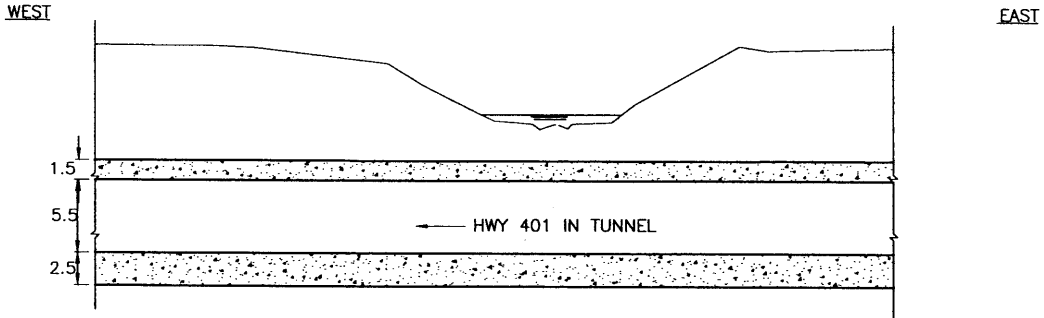
CROSS-SECTION SKETCH
1:400

LENGTH (m)	125	WIDTH (m)	----	
STRUCTURAL DEPTH (m)	----	SPAN/DEPTH RATIO	----	
SKEW ANGLE	----	VERTICAL CLEARANCE (m)	----	
UNIT PRICE (\$/m)	NEW STRUCTURE	75,000	ESTIMATED COST (\$)	9,375,000
	REHABILITATION	----		
COMMENTS (SPECIAL CONSTRUCTION & DESIGN FEATURES)	- WIDER PORTION OF BELOW GRADE HWY 401 DEEPER WITH RAMP S-N ON ONE SIDE.			
NAME OF CONSULTANT (FOR PLANNING)	URS CANADA INC.	DATE	FEBRUARY 2007	

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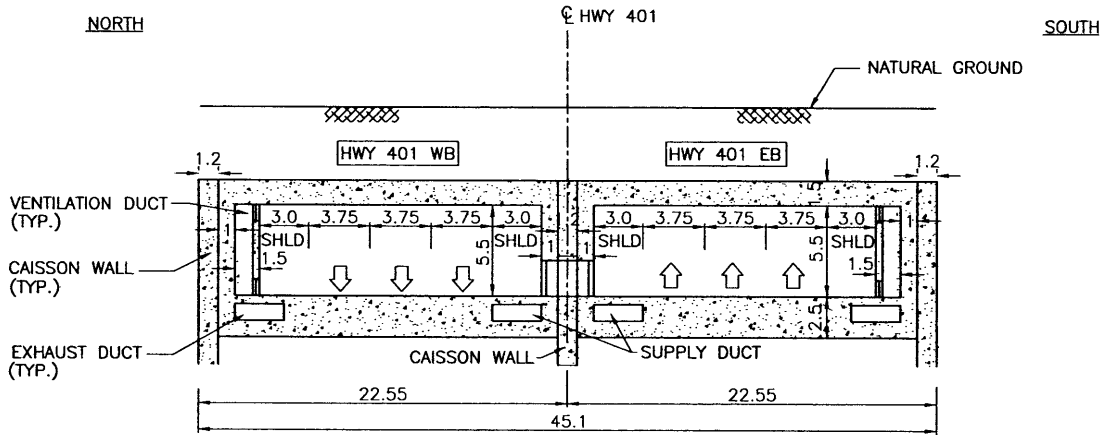
STRUCTURAL PLANNING SHEET

W.O.NO.	----	CORRIDOR	HC-T	ROUTE	ALIGNMENT ALTERNATIVE 1B
STRUCTURE I.D.	1B-225	SITE NO.	----	LOCATION	HWY 401 CROSSING UNDER TURKEY CREEK
BRIDGE NAME	HIGHWAY IN TUNNEL UNDER TURKEY CREEK		<input type="checkbox"/> EXISTING <input checked="" type="checkbox"/> NEW	<input type="checkbox"/> OVERPASS <input type="checkbox"/> UNDERPASS	<input checked="" type="checkbox"/> BELOW GRADE HWY <input type="checkbox"/> APPROACH RAMP
STRUCTURE DESCRIPTION	CUT AND COVER TUNNEL				



ELEVATION SKETCH

1:500



CROSS-SECTION SKETCH

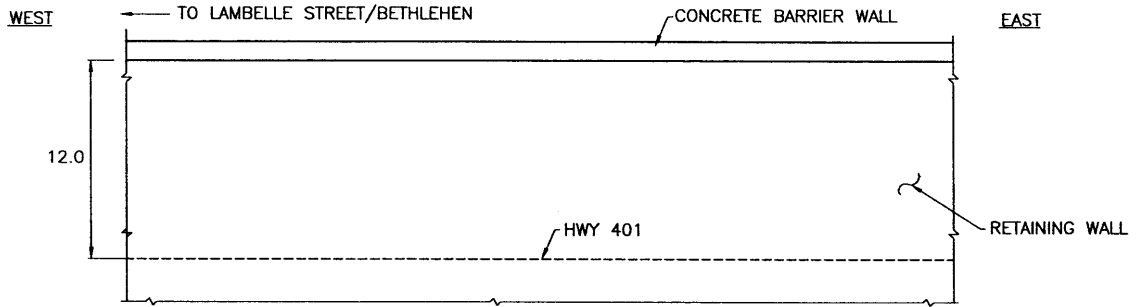
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LENGTH (m)	100	WIDTH (m)	--
STRUCTURAL DEPTH (m)	--	SPAN/DEPTH RATIO	--
SKEW ANGLE	--	VERTICAL CLEARANCE (m)	--
UNIT PRICE (\$/m)	NEW STRUCTURE	215,000	ESTIMATED COST (\$) 21,500,000
	REHABILITATION	----	
COMMENTS (SPECIAL CONSTRUCTION & DESIGN FEATURES)	----		
NAME OF CONSULTANT (FOR PLANNING)	URS CANADA INC.	DATE	FEBRUARY 2007

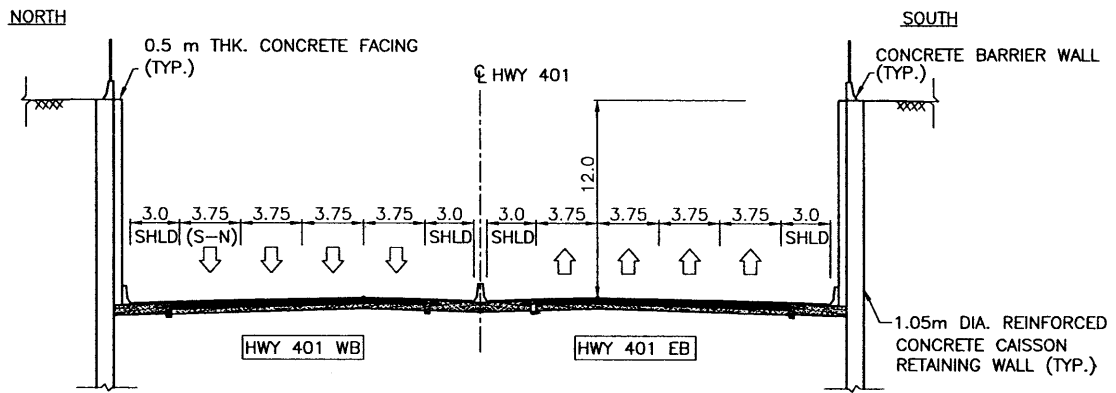
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STRUCTURAL PLANNING SHEET

W.O.NO.	----	CORRIDOR	HC-T	ROUTE	ALIGNMENT ALTERNATIVE 1B
STRUCTURE I.D.	1B-231	SITE NO.	----	LOCATION	HWY 401 AT WEST OF GRAND MARAIS ROAD WEST/LAMBTON ROAD
STRUCTURE NAME	BELOW GRADE HWY 401 AT WEST OF GRAND MARAIS ROAD WEST/LAMBTON ROAD		<input type="checkbox"/> EXISTING <input checked="" type="checkbox"/> NEW		<input type="checkbox"/> OVERPASS <input type="checkbox"/> UNDERPASS <input checked="" type="checkbox"/> BELOW GRADE HWY <input type="checkbox"/> APPROACH RAMP
STRUCTURE DESCRIPTION	BOAT SECTION WITH CAISSON RETAINING WALLS OF UNIFORM HEIGHTS				



ELEVATION SKETCH
1:400



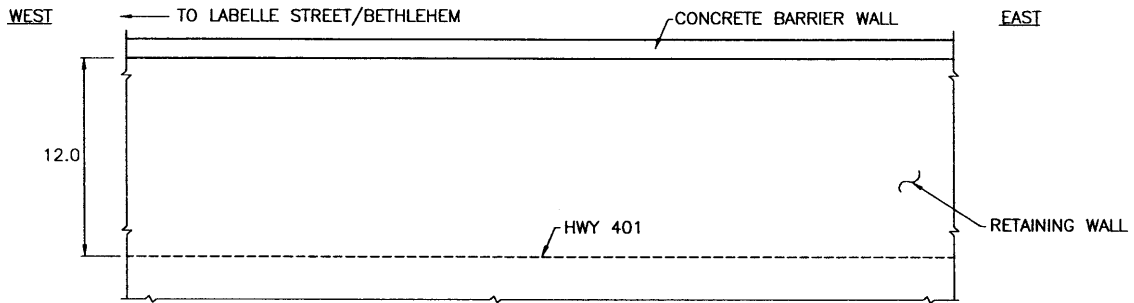
CROSS-SECTION SKETCH
1:400

LENGTH (m)	125	WIDTH (m)	----
STRUCTURAL DEPTH (m)	----	SPAN/DEPTH RATIO	----
SKREW ANGLE	----	VERTICAL CLEARANCE (m)	----
UNIT PRICE (\$/m)	NEW STRUCTURE	65,000	ESTIMATED COST (\$) 8,125,000
	REHABILITATION	----	
COMMENTS (SPECIAL CONSTRUCTION & DESIGN FEATURES)	- WIDER PORTION OF BELOW GRADE HWY 401 DEEPER WITH RAMP S-N ON ONE SIDE.		
NAME OF CONSULTANT (FOR PLANNING)	URS CANADA INC.	DATE	FEBRUARY 2007

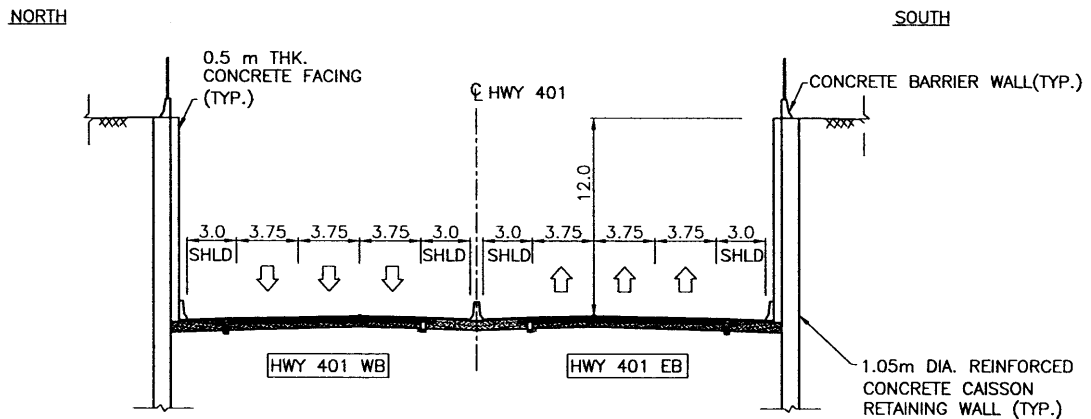
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STRUCTURAL PLANNING SHEET

W.O.NO.	----	CORRIDOR	HC-T	ROUTE	ALIGNMENT ALTERNATIVE 1B
STRUCTURE I.D.	1B-232	SITE NO.	----	LOCATION	HWY 401 AT WEST OF GRAND MARAIS ROAD WEST/LAMBTON ROAD
STRUCTURE NAME	BELOW GRADE HWY 401 BETWEEN GRAND MARAIS ROAD WEST/LAMBTON ROAD AND LABELLE STREET			<input type="checkbox"/> EXISTING <input checked="" type="checkbox"/> NEW	<input type="checkbox"/> OVERPASS <input checked="" type="checkbox"/> BELOW GRADE HWY <input type="checkbox"/> UNDERPASS <input type="checkbox"/> APPROACH RAMP
STRUCTURE DESCRIPTION	BOAT SECTION WITH CAISSON RETAINING WALLS OF UNIFORM HEIGHTS				



ELEVATION SKETCH
1:400



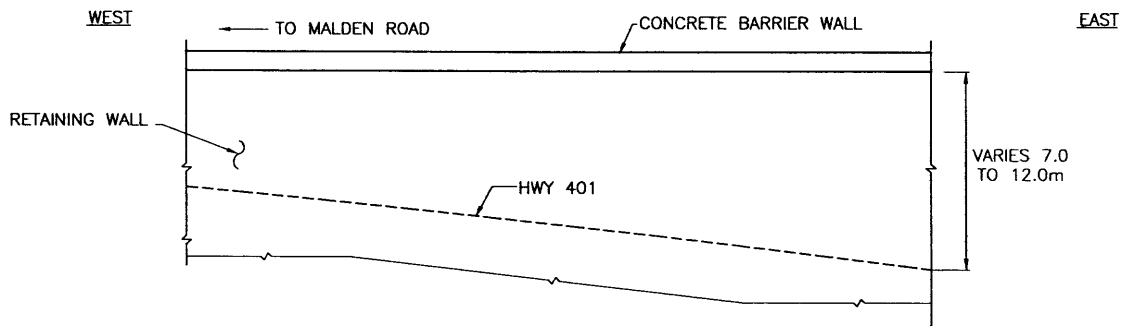
CROSS-SECTION SKETCH
1:400

LENGTH (m)	400	WIDTH (m)	----
STRUCTURAL DEPTH (m)	----	SPAN/DEPTH RATIO	----
SKEW ANGLE	----	VERTICAL CLEARANCE (m)	----
UNIT PRICE (\$/m)	NEW STRUCTURE	65,000	ESTIMATED COST (\$) 26,000,000
	REHABILITATION	----	
COMMENTS (SPECIAL CONSTRUCTION & DESIGN FEATURES)	- DEEPER PORTION OF BELOW GRADE HWY 401		
NAME OF CONSULTANT (FOR PLANNING)	URS CANADA INC.	DATE	FEBRUARY 2007

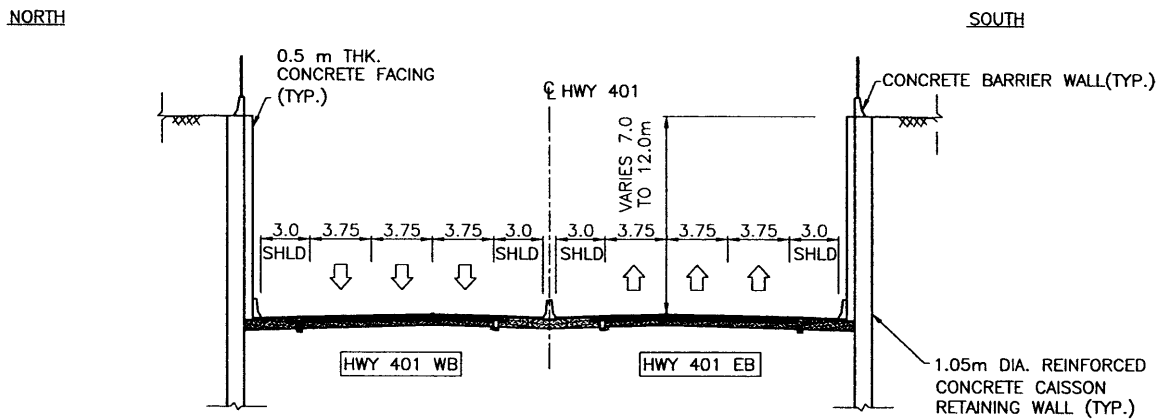
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STRUCTURAL PLANNING SHEET

W.O.NO.	----	CORRIDOR	HC-T	ROUTE	ALIGNMENT ALTERNATIVE 1B
STRUCTURE I.D.	1B-233	SITE NO.	----	LOCATION	HWY 401 AT WEST OF LABELLE STREET /BETHLEHEN
STRUCTURE NAME	APPROACH RAMP OF HWY 401 AT WEST OF LABELLE STREET /BETHLEHEN			<input type="checkbox"/> EXISTING <input checked="" type="checkbox"/> NEW	<input type="checkbox"/> OVERPASS <input type="checkbox"/> UNDERPASS <input checked="" type="checkbox"/> BELOW GRADE HWY <input type="checkbox"/> APPROACH RAMP
STRUCTURE DESCRIPTION	BOAT SECTION WITH CAISSON RETAINING WALLS OF VARIABLE HEIGHTS				



ELEVATION SKETCH
1:400



CROSS-SECTION SKETCH
1:400

LENGTH (m)	100	WIDTH (m)	----	
STRUCTURAL DEPTH (m)	----	SPAN/DEPTH RATIO	----	
SKEW ANGLE	----	VERTICAL CLEARANCE (m)	----	
UNIT PRICE (\$/m)	NEW STRUCTURE	65,000	ESTIMATED COST (\$)	6,500,000
	REHABILITATION	----		
COMMENTS (SPECIAL CONSTRUCTION & DESIGN FEATURES)	DEEPER PORTION OF BELOW GRADE HWY 401			
NAME OF CONSULTANT (FOR PLANNING)	URS CANADA INC.	DATE	FEBRUARY 2007	

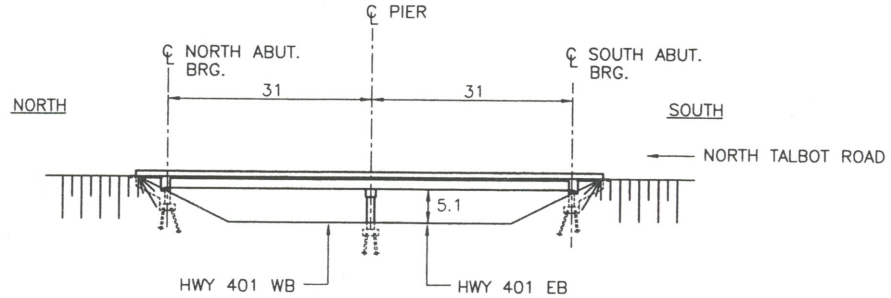
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 PLOTDATE:Aug 06, 2007 - 11:32am

Appendix C.3

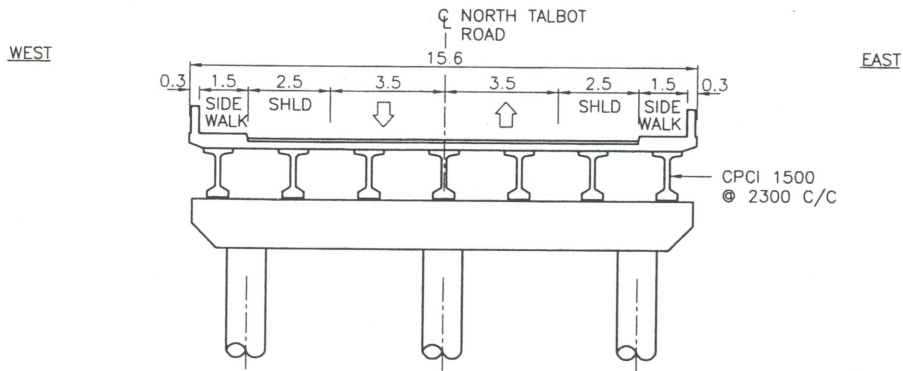
Structural Planning Sheets for Alternative 2A

STRUCTURAL PLANNING SHEET

W.O.NO.	----	CORRIDOR	HC-T	ROUTE	ALIGNMENT ALTERNATIVE 2A
STRUCTURE I.D.	2A-5	SITE NO.	----	LOCATION	NORTH TALBOT ROAD ABOVE HWY 401
BRIDGE NAME	NORTH TALBOT ROAD UNDERPASS			<input type="checkbox"/> EXISTING <input checked="" type="checkbox"/> NEW	<input type="checkbox"/> OVERPASS <input checked="" type="checkbox"/> UNDERPASS <input type="checkbox"/> BELOW GRADE HWY <input type="checkbox"/> APPROACH RAMP
STRUCTURE DESCRIPTION	TWO SPANS CPCI 1500 GIRDERS WITH SEMI-INTEGRAL ABUTMENTS				



ELEVATION SKETCH
1:1000



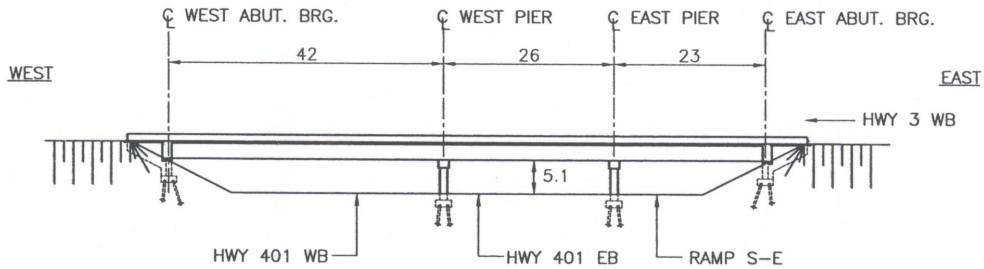
CROSS-SECTION SKETCH
1:200

LENGTH (m)	62	WIDTH (m)	15.60	
STRUCTURAL DEPTH (m)	1.8	SPAN/DEPTH RATIO	17	
SKEW ANGLE	30°	VERTICAL CLEARANCE (m)	5.1	
UNIT PRICE (\$/m ²)	NEW STRUCTURE	2,100	ESTIMATED COST (\$)	2,031,000
	REHABILITATION	----		
COMMENTS (SPECIAL CONSTRUCTION & DESIGN FEATURES)	<ul style="list-style-type: none"> - SEMI-INTEGRAL ABUTMENTS DUE TO 30° SKEW - EXISTING BRIDGE NEEDS TO BE REMOVED. - NORTH TALBOT ROAD NEEDS TO BE DIVERTED DURING THE CONSTRUCTION OR AFTER THE CONSTRUCTION OF THE NEW BRIDGE ON ADJACENT SITE. 			
NAME OF CONSULTANT (FOR PLANNING)	URS CANADA INC.	DATE	MAY 2007	

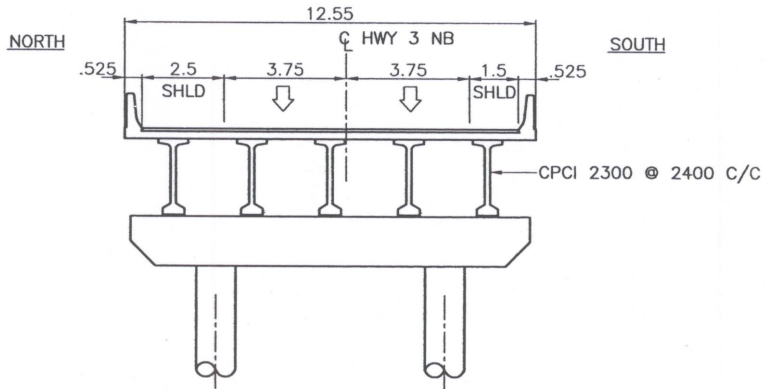
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 PLOTDATE: Nov 02, 2007 1:27 PM

STRUCTURAL PLANNING SHEET

W.O.NO.	----	CORRIDOR	HC-T	ROUTE	ALIGNMENT ALTERNATIVE 2A
STRUCTURE I.D.	2A-10	SITE NO.	----	LOCATION	HWY 3 OVER HWY 401
BRIDGE NAME	HIGHWAY 3 WB UNDERPASS			<input type="checkbox"/> EXISTING <input checked="" type="checkbox"/> NEW	<input type="checkbox"/> OVERPASS <input type="checkbox"/> BELOW GRADE HWY <input checked="" type="checkbox"/> UNDERPASS <input type="checkbox"/> APPROACH RAMP
STRUCTURE DESCRIPTION	THREE SPANS CPCI 2300 GIRDERS WITH SEMI-INTEGRAL ABUTMENTS				



ELEVATION SKETCH
1:1000



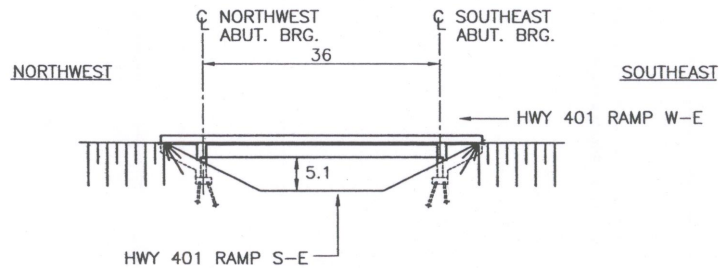
CROSS-SECTION SKETCH
1:200

LENGTH (m)	91	WIDTH (m)	12.55	
STRUCTURAL DEPTH (m)	2.6	SPAN/DEPTH RATIO	16	
SKEW ANGLE	40°	VERTICAL CLEARANCE (m)	5.1	
UNIT PRICE (\$/m2)	NEW STRUCTURE	2,100	ESTIMATED COST (\$)	2,398,000
	REHABILITATION	----		
COMMENTS (SPECIAL CONSTRUCTION & DESIGN FEATURES)	SEMI-INTEGRAL ABUTMENTS DUE TO 40° SKEW			
NAME OF CONSULTANT (FOR PLANNING)	URS CANADA INC.	DATE	FEBRUARY 2007	

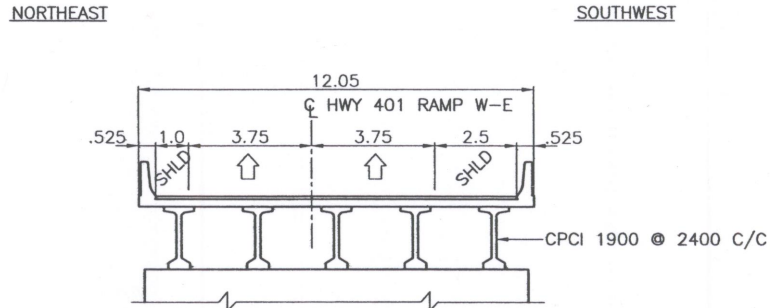
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 PLOTDATE:Aug 06, 2007 - 11:56am

STRUCTURAL PLANNING SHEET

W.O.NO.	----	CORRIDOR	HC-T	ROUTE	ALIGNMENT ALTERNATIVE 2A
STRUCTURE I.D.	2A-11	SITE NO.	----	LOCATION	HWY 401 RAMP W-E OVER RAMP S-E
BRIDGE NAME	HIGHWAY 401 RAMP W-E UNDERPASS			<input type="checkbox"/> EXISTING <input checked="" type="checkbox"/> NEW	<input type="checkbox"/> OVERPASS <input checked="" type="checkbox"/> UNDERPASS <input type="checkbox"/> BELOW GRADE HWY <input type="checkbox"/> APPROACH RAMP
STRUCTURE DESCRIPTION	SINGLE SPAN CPCI 1900 GIRDERS WITH SEMI-INTEGRAL ABUTMENTS				



ELEVATION SKETCH
1:1000



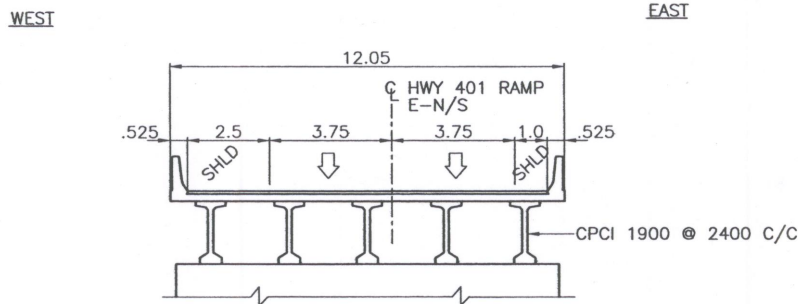
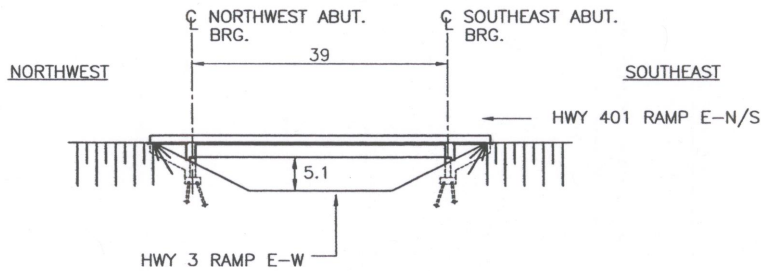
CROSS-SECTION SKETCH
1:200

LENGTH (m)	36	WIDTH (m)	12.05	
STRUCTURAL DEPTH (m)	2.2	SPAN/DEPTH RATIO	16	
SKIEW ANGLE	50°	VERTICAL CLEARANCE (m)	5.1	
UNIT PRICE (\$/m2)	NEW STRUCTURE	2,100	ESTIMATED COST (\$)	911,000
	REHABILITATION	----		
COMMENTS (SPECIAL CONSTRUCTION & DESIGN FEATURES)	SEMI-INTEGRAL ABUTMENT DUE TO 50° SKEW.			
NAME OF CONSULTANT (FOR PLANNING)	URS CANADA INC.	DATE	FEBRUARY 2007	

FILENAME: O:\DRIVE\16_Structure\CADD\Planning Sheets\ Hwy Alternatives\2007\ Bridge-Alt-07-July 18-2007\REVISIONS.dwg
 PLOTDATE: Aug 06, 2007 - 11:55am

STRUCTURAL PLANNING SHEET

W.O.NO.	----	CORRIDOR	HC-T	ROUTE	ALIGNMENT ALTERNATIVE 2A
STRUCTURE I.D.	2A-12	SITE NO.	----	LOCATION	HWY 401 RAMP E-N/S OVER HWY 3 RAMP E-W
BRIDGE NAME	HIGHWAY 401 RAMP E-N/S OVERPASS			<input type="checkbox"/> EXISTING <input checked="" type="checkbox"/> NEW	<input checked="" type="checkbox"/> OVERPASS <input type="checkbox"/> BELOW GRADE HWY <input type="checkbox"/> UNDERPASS <input type="checkbox"/> APPROACH RAMP
STRUCTURE DESCRIPTION	SINGLE SPAN CPCI 1900 GIRDERS WITH SEMI-INTEGRAL ABUTMENTS				

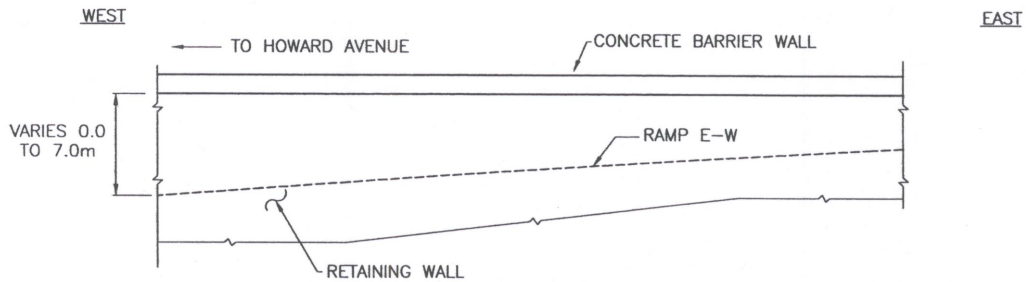


LENGTH (m)	39	WIDTH (m)	12.05
STRUCTURAL DEPTH (m)	2.2	SPAN/DEPTH RATIO	18
SKEW ANGLE	50°	VERTICAL CLEARANCE (m)	5.1
UNIT PRICE (\$/m ²)	NEW STRUCTURE	2,100	ESTIMATED COST (\$) 987,000
	REHABILITATION	----	
COMMENTS (SPECIAL CONSTRUCTION & DESIGN FEATURES)	SEMI-INTEGRAL ABUTMENT DUE TO 50° SKEW.		
NAME OF CONSULTANT (FOR PLANNING)	URS CANADA INC.	DATE	FEBRUARY 2007

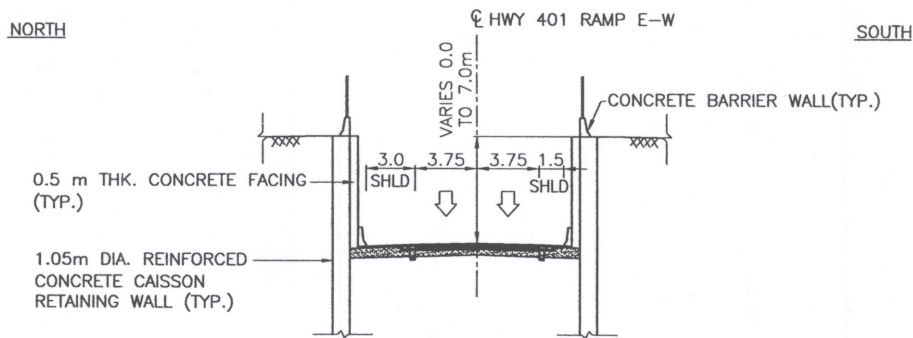
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STRUCTURAL PLANNING SHEET

W.O.NO.	----	CORRIDOR	HC-T	ROUTE	ALIGNMENT ALTERNATIVE 2A
STRUCTURE I.D.	2A-13	SITE NO.	----	LOCATION	HWY 401 AT EAST OF HOWARD AVENUE
STRUCTURE NAME	RAMP E-W AT EAST OF HOWARD AVENUE		<input type="checkbox"/> EXISTING <input checked="" type="checkbox"/> NEW	<input type="checkbox"/> OVERPASS <input type="checkbox"/> UNDERPASS	<input type="checkbox"/> BELOW GRADE HWY <input checked="" type="checkbox"/> APPROACH RAMP
STRUCTURE DESCRIPTION	BOAT SECTION WITH CAISSON RETAINING WALLS OF VARIABLE HEIGHTS				



ELEVATION SKETCH
1:400



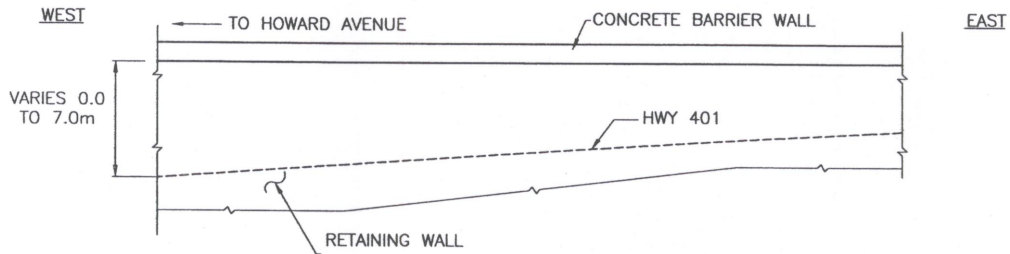
CROSS-SECTION SKETCH
1:400

LENGTH (m)	510	WIDTH (m)	----
STRUCTURAL DEPTH (m)	----	SPAN/DEPTH RATIO	----
SKEW ANGLE	----	VERTICAL CLEARANCE (m)	----
UNIT PRICE (\$/m)	NEW STRUCTURE	30,000	ESTIMATED COST (\$) 15,300,000
	REHABILITATION	----	
COMMENTS (SPECIAL CONSTRUCTION & DESIGN FEATURES)	----		
NAME OF CONSULTANT (FOR PLANNING)	URS CANADA INC.	DATE	FEBRUARY 2007

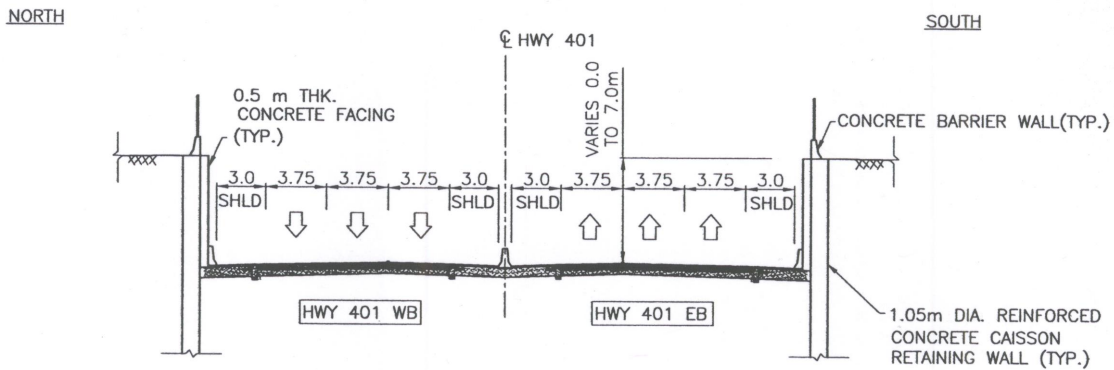
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 PLOTDATE:Aug 06, 2007 - 11:56am

STRUCTURAL PLANNING SHEET

W.O.NO.	----	CORRIDOR	HC-T	ROUTE	ALIGNMENT ALTERNATIVE 2A
STRUCTURE I.D.	2A-20	SITE NO.	----	LOCATION	HWY 401 AT EAST OF HOWARD AVENUE
STRUCTURE NAME	APPROACH RAMP OF HWY 401 AT EAST OF HOWARD AVENUE	<input type="checkbox"/> EXISTING <input checked="" type="checkbox"/> NEW		<input type="checkbox"/> OVERPASS <input type="checkbox"/> UNDERPASS	<input type="checkbox"/> BELOW GRADE HWY <input checked="" type="checkbox"/> APPROACH RAMP
STRUCTURE DESCRIPTION	BOAT SECTION WITH CAISSON RETAINING WALLS OF VARIABLE HEIGHTS				



ELEVATION SKETCH
1:400



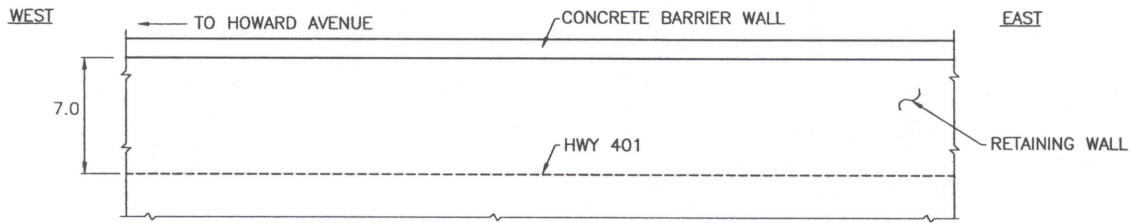
CROSS-SECTION SKETCH
1:400

LENGTH (m)	500		WIDTH (m)	----	
STRUCTURAL DEPTH (m)	----		SPAN/DEPTH RATIO	----	
SKEW ANGLE	----		VERTICAL CLEARANCE (m)	----	
UNIT PRICE (\$/m)	NEW STRUCTURE	30,000	ESTIMATED COST (\$)	15,000,000	
	REHABILITATION	----			
COMMENTS (SPECIAL CONSTRUCTION & DESIGN FEATURES)					
NAME OF CONSULTANT (FOR PLANNING)	URS CANADA INC.		DATE	FEBRUARY 2007	

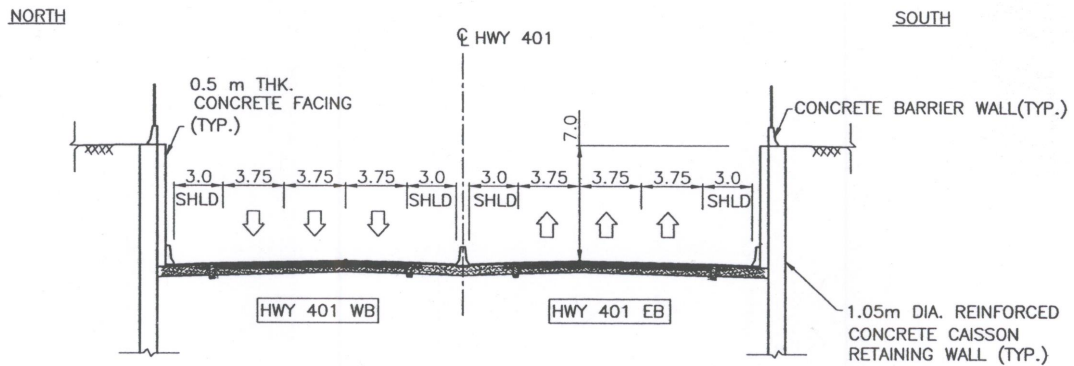
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STRUCTURAL PLANNING SHEET

W.O.NO.	----	CORRIDOR	HC-T	ROUTE	ALIGNMENT ALTERNATIVE 2A
STRUCTURE I.D.	2A-21	SITE NO.	----	LOCATION	HWY 401 UNDER HOWARD AVENUE
STRUCTURE NAME	BELOW GRADE HWY 401 AT EAST OF HOWARD AVENUE		<input type="checkbox"/> EXISTING <input checked="" type="checkbox"/> NEW	<input type="checkbox"/> OVERPASS <input type="checkbox"/> UNDERPASS	<input checked="" type="checkbox"/> BELOW GRADE HWY <input type="checkbox"/> APPROACH RAMP
STRUCTURE DESCRIPTION	BOAT SECTION WITH CAISSON RETAINING WALLS OF UNIFORM HEIGHTS				



ELEVATION SKETCH
1:400



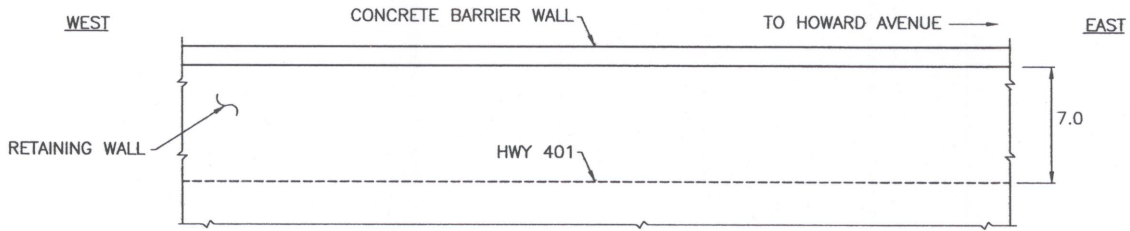
CROSS-SECTION SKETCH
1:400

LENGTH (m)	90	WIDTH (m)	----
STRUCTURAL DEPTH (m)	----	SPAN/DEPTH RATIO	----
SKEW ANGLE	----	VERTICAL CLEARANCE (m)	----
UNIT PRICE (\$/m)	NEW STRUCTURE	45,000	ESTIMATED COST (\$) 4,050,000
	REHABILITATION	----	
COMMENTS (SPECIAL CONSTRUCTION & DESIGN FEATURES)			
NAME OF CONSULTANT (FOR PLANNING)	URS CANADA INC.	DATE	FEBRUARY 2007

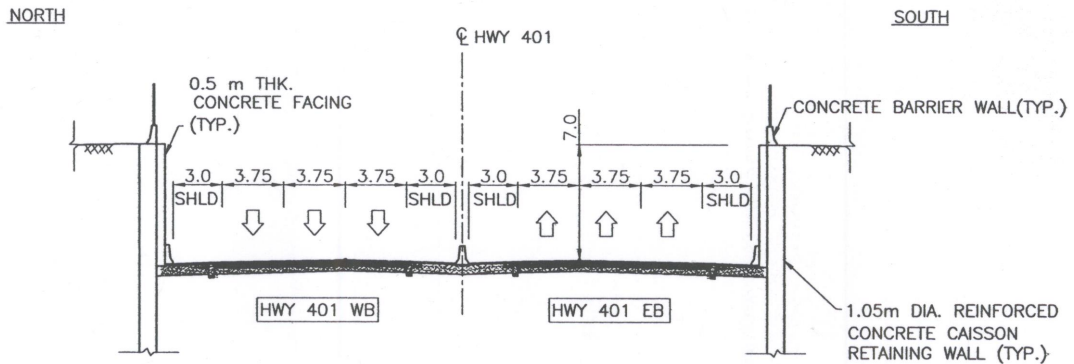
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STRUCTURAL PLANNING SHEET

W.O.NO.	----	CORRIDOR	HC-T	ROUTE	ALIGNMENT ALTERNATIVE 2A
STRUCTURE I.D.	2A-23	SITE NO.	----	LOCATION	HWY 401 UNDER HOWARD AVENUE
STRUCTURE NAME	BELOW GRADE HWY 401 AT WEST SIDE OF HOWARD AVENUE		<input type="checkbox"/> EXISTING <input checked="" type="checkbox"/> NEW		<input type="checkbox"/> OVERPASS <input type="checkbox"/> UNDERPASS <input checked="" type="checkbox"/> BELOW GRADE HWY <input type="checkbox"/> APPROACH RAMP
STRUCTURE DESCRIPTION	BOAT SECTION WITH CAISSON RETAINING WALLS OF UNIFORM HEIGHTS				



ELEVATION SKETCH
1:400



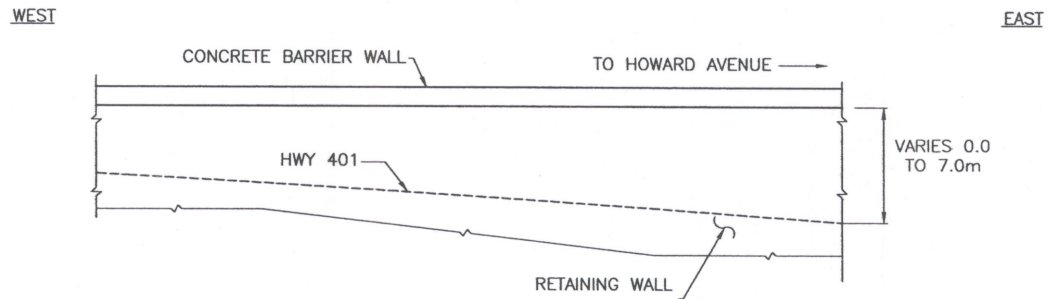
CROSS-SECTION SKETCH
1:400

LENGTH (m)	70	WIDTH (m)	----
STRUCTURAL DEPTH (m)	----	SPAN/DEPTH RATIO	----
SKEW ANGLE	----	VERTICAL CLEARANCE (m)	----
UNIT PRICE (\$/m)	NEW STRUCTURE	45,000	ESTIMATED COST (\$) 3,150,000
	REHABILITATION	----	
COMMENTS (SPECIAL CONSTRUCTION & DESIGN FEATURES)			
NAME OF CONSULTANT (FOR PLANNING)	URS CANADA INC.	DATE	FEBRUARY 2007

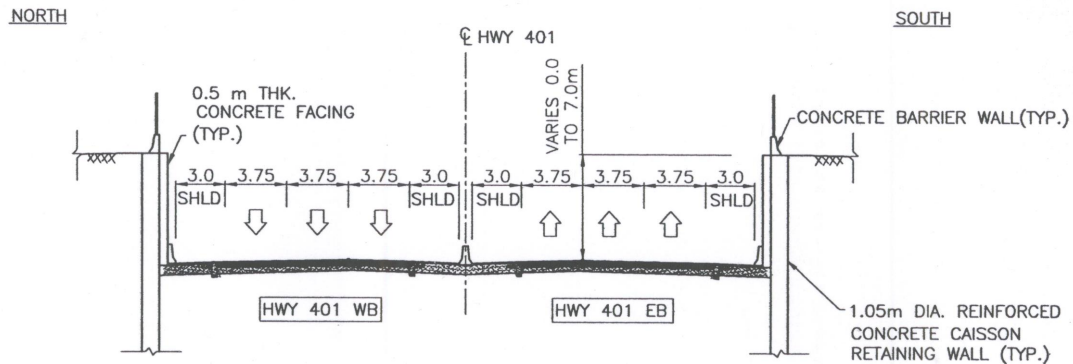
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 PLOTDATE:Aug 06, 2007 - 11:56am

STRUCTURAL PLANNING SHEET

W.O.NO.	----	CORRIDOR	HC-T	ROUTE	ALIGNMENT ALTERNATIVE 2A
STRUCTURE I.D.	2A-24	SITE NO.	----	LOCATION	HWY 401 AT WEST OF HOWARD AVENUE
STRUCTURE NAME	APPROACH RAMP OF HWY 401 AT WEST OF HOWARD AVENUE		<input type="checkbox"/> EXISTING <input checked="" type="checkbox"/> NEW	<input type="checkbox"/> OVERPASS <input type="checkbox"/> UNDERPASS	<input type="checkbox"/> BELOW GRADE HWY <input checked="" type="checkbox"/> APPROACH RAMP
STRUCTURE DESCRIPTION	BOAT SECTION WITH CAISSON RETAINING WALLS OF VARIABLE HEIGHTS				



ELEVATION SKETCH
1:400



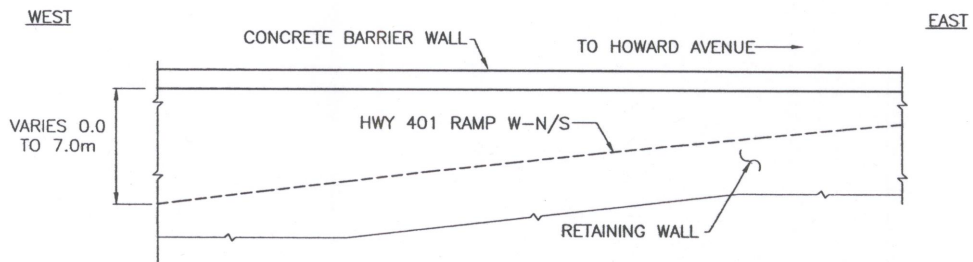
CROSS-SECTION SKETCH
1:400

LENGTH (m)	300	WIDTH (m)	----
STRUCTURAL DEPTH (m)	----	SPAN/DEPTH RATIO	----
SKEW ANGLE	----	VERTICAL CLEARANCE (m)	----
UNIT PRICE (\$/m)	NEW STRUCTURE	30,000	ESTIMATED COST (\$) 9,000,000
	REHABILITATION	----	
COMMENTS (SPECIAL CONSTRUCTION & DESIGN FEATURES)			
NAME OF CONSULTANT (FOR PLANNING)	URS CANADA INC.	DATE	FEBRUARY 2007

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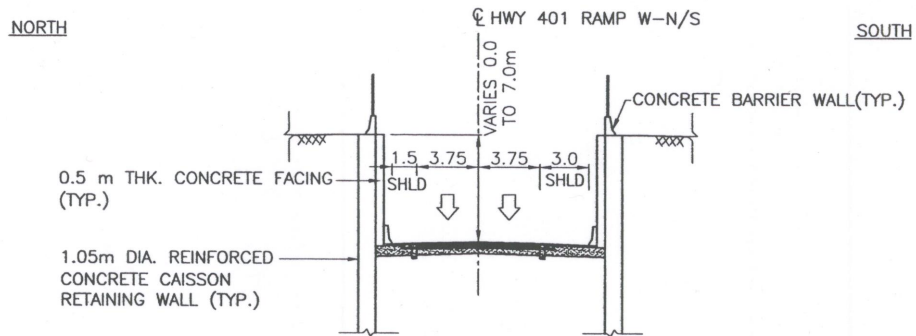
STRUCTURAL PLANNING SHEET

W.O.NO.	----	CORRIDOR	HC-T	ROUTE	ALIGNMENT ALTERNATIVE 2A
STRUCTURE I.D.	2A-25	SITE NO.	----	LOCATION	SIDE ROAD RAMP W-N/S FROM HWY 401 AT WEST OF HOWARD AVENUE
STRUCTURE NAME	APPROACH RAMP OF HWY 401 RAMP W-N/S RAMP AT WEST OF HOWARD AVENUE		<input type="checkbox"/> EXISTING <input checked="" type="checkbox"/> NEW	<input type="checkbox"/> OVERPASS <input type="checkbox"/> UNDERPASS	<input type="checkbox"/> BELOW GRADE HWY <input checked="" type="checkbox"/> APPROACH RAMP
STRUCTURE DESCRIPTION	BOAT SECTION WITH CAISSON RETAINING WALLS OF VARIABLE HEIGHTS				



ELEVATION SKETCH

1:400



CROSS-SECTION SKETCH

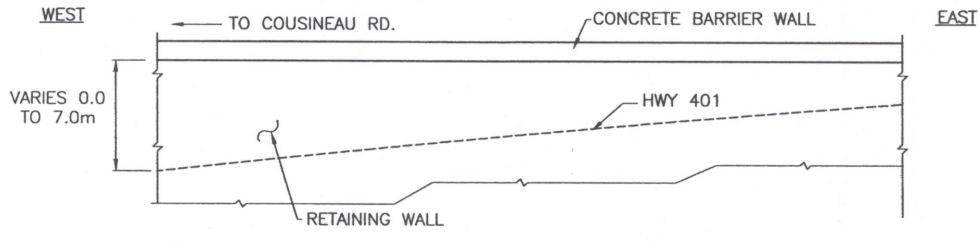
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LENGTH (m)	300	WIDTH (m)	----
STRUCTURAL DEPTH (m)	----	SPAN/DEPTH RATIO	----
SKEW ANGLE	----	VERTICAL CLEARANCE (m)	----
UNIT PRICE (\$/m)	NEW STRUCTURE	30,000	ESTIMATED COST (\$) 9,000,000
	REHABILITATION	----	
COMMENTS (SPECIAL CONSTRUCTION & DESIGN FEATURES)			
NAME OF CONSULTANT (FOR PLANNING)	URS CANADA INC.	DATE	JULY 2007

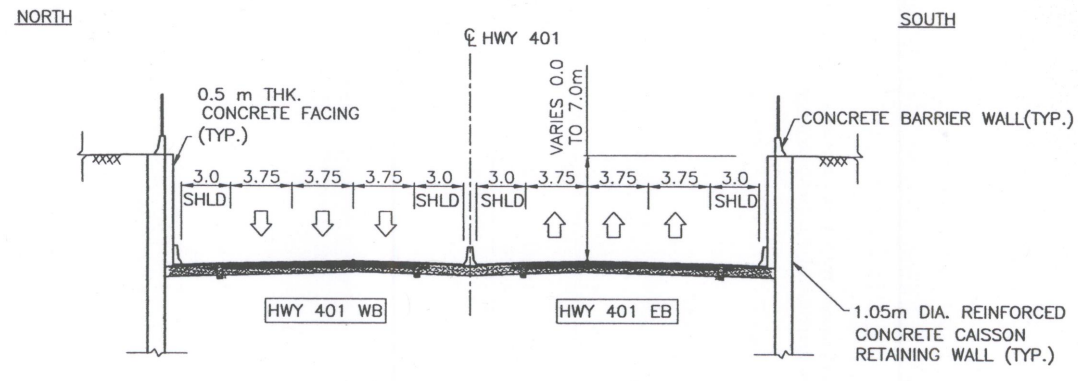
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 PLOTDATE:Aug 06, 2007 - 11:57am

STRUCTURAL PLANNING SHEET

W.O.NO.	----	CORRIDOR	HC-T	ROUTE	ALIGNMENT ALTERNATIVE 2A
STRUCTURE I.D.	2A-30	SITE NO.	----	LOCATION	HWY 401 AT EAST OF COUSINEAU ROAD
STRUCTURE NAME	APPROACH RAMP OF HWY 401 AT EAST OF COUSINEAU ROAD		<input type="checkbox"/> EXISTING <input checked="" type="checkbox"/> NEW		<input type="checkbox"/> OVERPASS <input type="checkbox"/> UNDERPASS <input type="checkbox"/> BELOW GRADE HWY <input checked="" type="checkbox"/> APPROACH RAMP
STRUCTURE DESCRIPTION	BOAT SECTION WITH CAISSON RETAINING WALLS OF VARIABLE HEIGHTS				



ELEVATION SKETCH
1:400



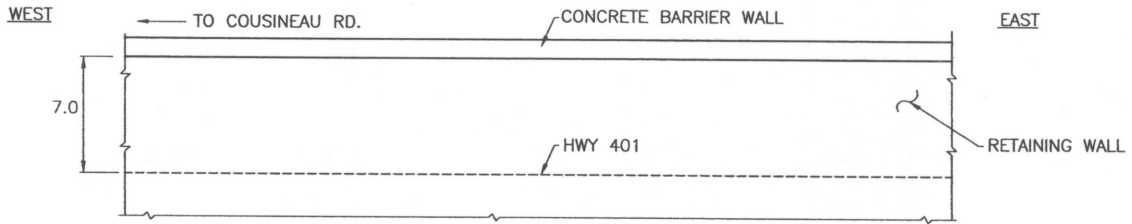
CROSS-SECTION SKETCH
1:400

LENGTH (m)	350		WIDTH (m)	----	
STRUCTURAL DEPTH (m)	----		SPAN/DEPTH RATIO	----	
SKEW ANGLE	----		VERTICAL CLEARANCE (m)	----	
UNIT PRICE (\$/m)	NEW STRUCTURE	30,000	ESTIMATED COST (\$)	10,500,000	
	REHABILITATION	----			
COMMENTS (SPECIAL CONSTRUCTION & DESIGN FEATURES)	----				
NAME OF CONSULTANT (FOR PLANNING)	URS CANADA INC.		DATE	FEBRUARY 2007	

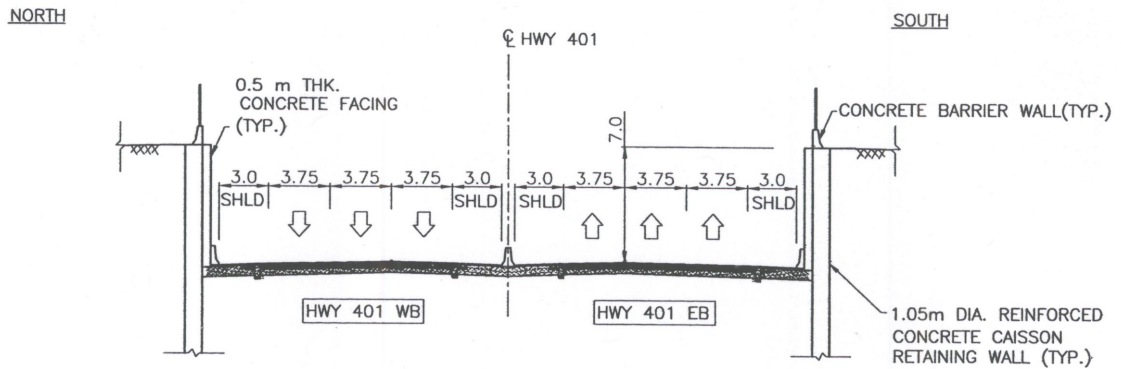
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 PLOTDATE: Aug 06, 2007 - 11:15:0m

STRUCTURAL PLANNING SHEET

W.O.NO.	----	CORRIDOR	HC-T	ROUTE	ALIGNMENT ALTERNATIVE 2A
STRUCTURE I.D.	2A-31	SITE NO.	----	LOCATION	HWY 401 NEAR COUSINEAU ROAD
STRUCTURE NAME	BELOW GRADE HWY 401 AT EAST OF COUSINEAU ROAD		<input type="checkbox"/> EXISTING <input checked="" type="checkbox"/> NEW	<input type="checkbox"/> OVERPASS <input type="checkbox"/> UNDERPASS	<input checked="" type="checkbox"/> BELOW GRADE HWY <input type="checkbox"/> APPROACH RAMP
STRUCTURE DESCRIPTION	BOAT SECTION WITH CAISSON RETAINING WALLS OF UNIFORM HEIGHTS				



ELEVATION SKETCH
1:400



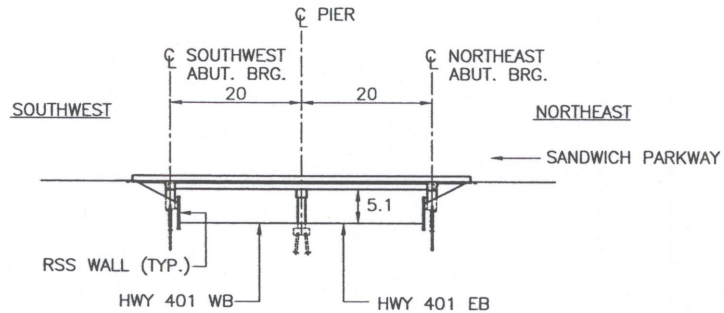
CROSS-SECTION SKETCH
1:400

LENGTH (m)	65		WIDTH (m)	----	
STRUCTURAL DEPTH (m)	----		SPAN/DEPTH RATIO	----	
SKEW ANGLE	----		VERTICAL CLEARANCE (m)	----	
UNIT PRICE (\$/m)	NEW STRUCTURE	45,000	ESTIMATED COST (\$)	2,925,000	
	REHABILITATION	----			
COMMENTS (SPECIAL CONSTRUCTION & DESIGN FEATURES)	----				
NAME OF CONSULTANT (FOR PLANNING)	URS CANADA INC.		DATE	FEBRUARY 2007	

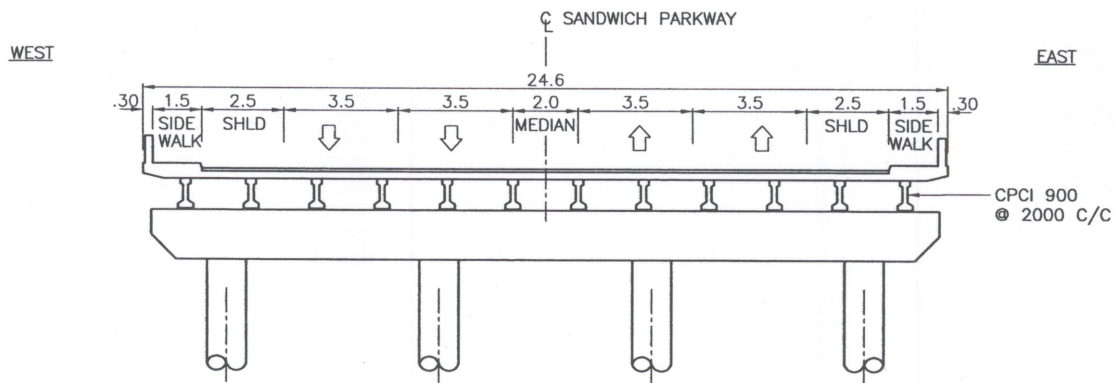
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STRUCTURAL PLANNING SHEET

W.O.NO.	----	CORRIDOR	HC-T	ROUTE	ALIGNMENT ALTERNATIVE 2A
STRUCTURE I.D.	2A-32	SITE NO.	----	LOCATION	SANDWICH PARKWAY ABOVE HWY 401
BRIDGE NAME	SANDWICH PARKWAY UNDERPASS			<input type="checkbox"/> EXISTING <input checked="" type="checkbox"/> NEW	<input type="checkbox"/> OVERPASS <input checked="" type="checkbox"/> UNDERPASS
STRUCTURE DESCRIPTION	TWO SPANS CPCI 900 GIRDERS WITH INTEGRAL ABUTMENTS WITH RSS WALL				



ELEVATION SKETCH
1:1000



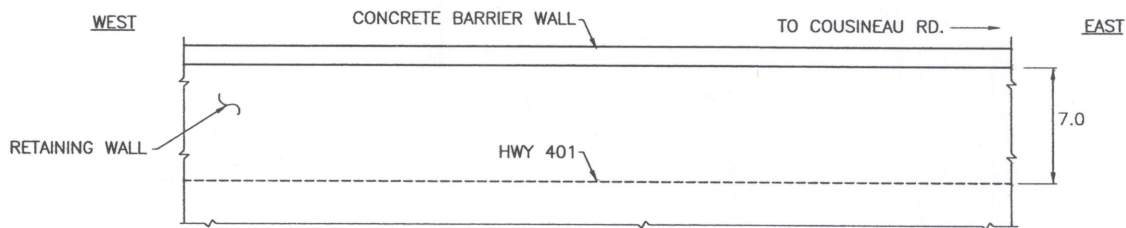
CROSS-SECTION SKETCH
1:200

LENGTH (m)	40	WIDTH (m)	24.6
STRUCTURAL DEPTH (m)	1.2	SPAN/DEPTH RATIO	17
SKEW ANGLE	NO	VERTICAL CLEARANCE (m)	5.1
UNIT PRICE (\$/m ²)	NEW STRUCTURE	2,100	ESTIMATED COST (\$)
	REHABILITATION	----	
COMMENTS (SPECIAL CONSTRUCTION & DESIGN FEATURES)	- OUTER SURFACE OF RSS WALL OF ABUTMENTS TO MATCH THE RW OF DEPRESSED HWY 401 ON EITHER SIDE OF THE BRIDGE CROSSING.		
NAME OF CONSULTANT (FOR PLANNING)	URS CANADA INC.	DATE	FEBRUARY 2007

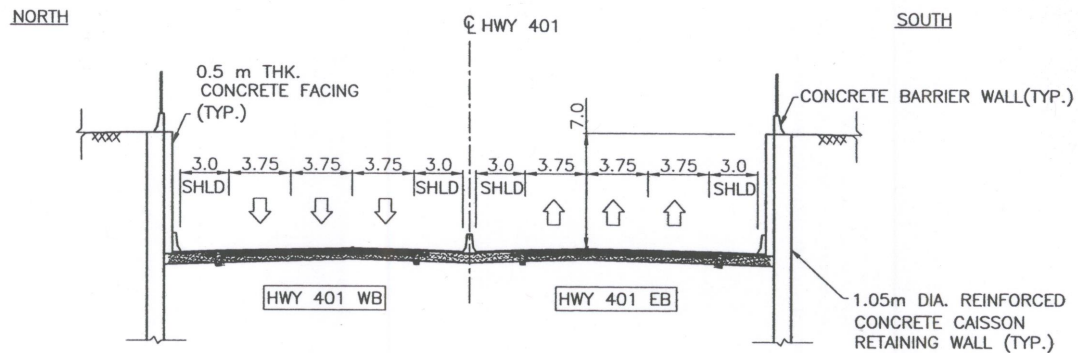
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STRUCTURAL PLANNING SHEET

W.O.NO.	----	CORRIDOR	HC-T	ROUTE	ALIGNMENT ALTERNATIVE 2A
STRUCTURE I.D.	2A-34	SITE NO.	----	LOCATION	HWY 401 NEAR COUSINEAU ROAD
STRUCTURE NAME	BELOW GRADE HWY 401 AT WEST OF COUSINEAU ROAD		<input type="checkbox"/> EXISTING <input checked="" type="checkbox"/> NEW	<input type="checkbox"/> OVERPASS <input type="checkbox"/> UNDERPASS	<input checked="" type="checkbox"/> BELOW GRADE HWY <input type="checkbox"/> APPROACH RAMP
STRUCTURE DESCRIPTION	BOAT SECTION WITH CAISSON RETAINING WALLS OF UNIFORM HEIGHTS				



ELEVATION SKETCH
1:400



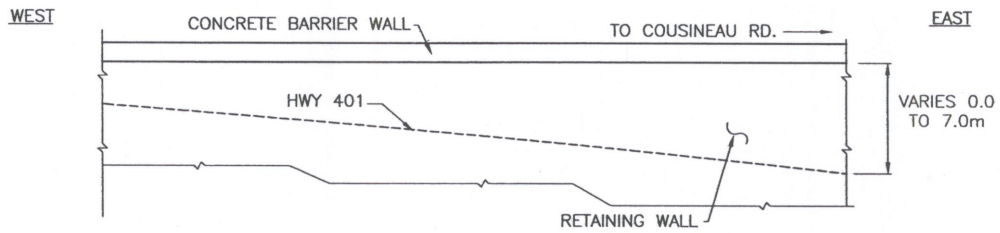
CROSS-SECTION SKETCH
1:400

LENGTH (m)	65	WIDTH (m)	----
STRUCTURAL DEPTH (m)	----	SPAN/DEPTH RATIO	----
SKEW ANGLE	----	VERTICAL CLEARANCE (m)	----
UNIT PRICE (\$/m)	NEW STRUCTURE	45,000	ESTIMATED COST (\$)
	REHABILITATION	----	
COMMENTS (SPECIAL CONSTRUCTION & DESIGN FEATURES)	----		
NAME OF CONSULTANT (FOR PLANNING)	URS CANADA INC.	DATE	FEBRUARY 2007

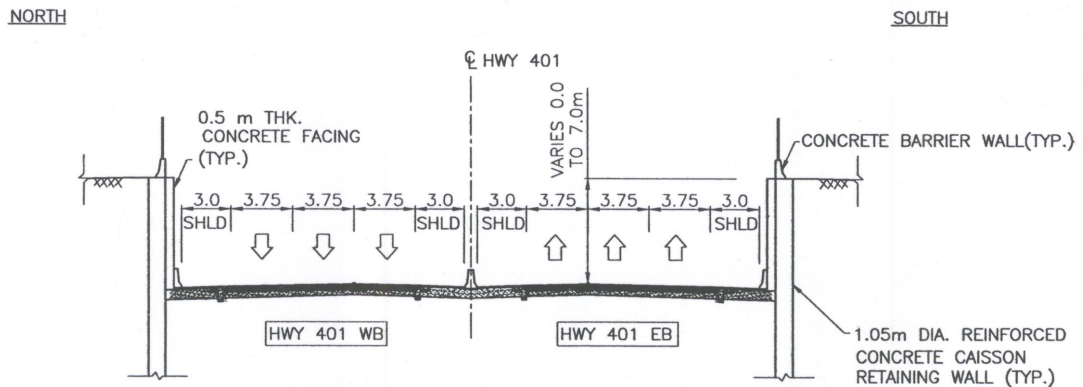
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STRUCTURAL PLANNING SHEET

W.O.NO.	----	CORRIDOR	HC-T	ROUTE	ALIGNMENT ALTERNATIVE 2A
STRUCTURE I.D.	2A-35	SITE NO.	----	LOCATION	HWY 401 AT WEST OF COUSINEAU ROAD
STRUCTURE NAME	APPROACH RAMP OF HWY 401 AT WEST OF COUSINEAU ROAD		<input type="checkbox"/> EXISTING <input checked="" type="checkbox"/> NEW	<input type="checkbox"/> OVERPASS <input type="checkbox"/> UNDERPASS	<input type="checkbox"/> BELOW GRADE HWY <input checked="" type="checkbox"/> APPROACH RAMP
STRUCTURE DESCRIPTION	BOAT SECTION WITH CAISSON RETAINING WALLS OF VARIABLE HEIGHTS				



ELEVATION SKETCH
1:400



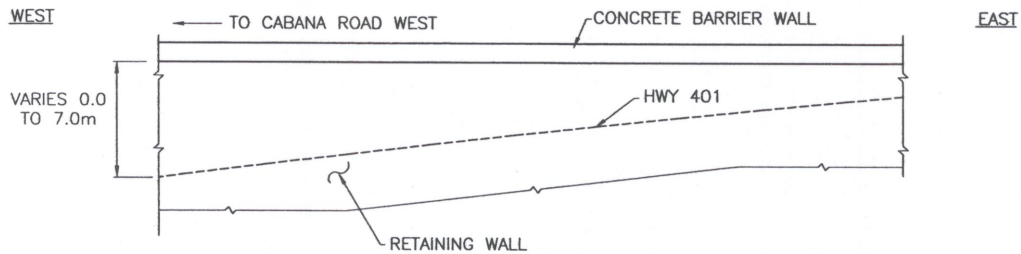
CROSS-SECTION SKETCH
1:400

LENGTH (m)	270	WIDTH (m)	----
STRUCTURAL DEPTH (m)	----	SPAN/DEPTH RATIO	----
SKEW ANGLE	----	VERTICAL CLEARANCE (m)	----
UNIT PRICE (\$/m)	NEW STRUCTURE	30,000	ESTIMATED COST (\$)
	REHABILITATION	----	
COMMENTS (SPECIAL CONSTRUCTION & DESIGN FEATURES)	----		
NAME OF CONSULTANT (FOR PLANNING)	URS CANADA INC.	DATE	FEBRUARY 2007

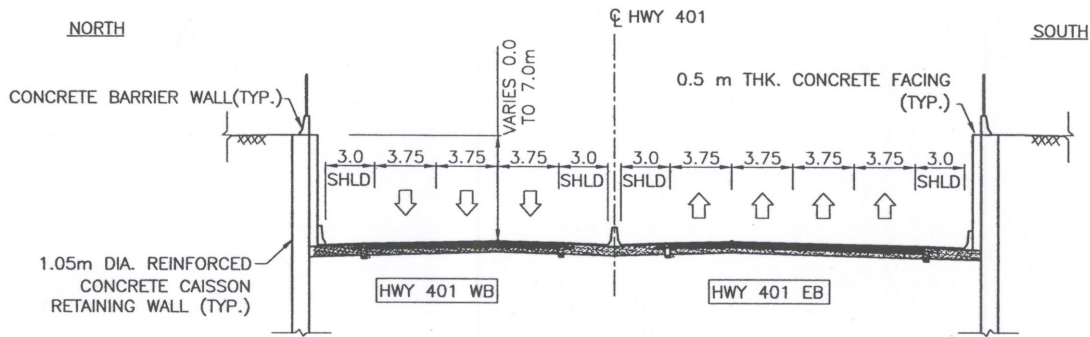
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STRUCTURAL PLANNING SHEET

W.O.NO.	----	CORRIDOR	HC-T	ROUTE	ALIGNMENT ALTERNATIVE 2A
STRUCTURE I.D.	2A-40	SITE NO.	----	LOCATION	HWY 401 EAST OF CABANA ROAD WEST / TODD LANE
STRUCTURE NAME	APPROACH RAMP OF HWY 401 AT EAST OF CABANA ROAD WEST			<input type="checkbox"/> EXISTING <input checked="" type="checkbox"/> NEW	<input type="checkbox"/> OVERPASS <input type="checkbox"/> UNDERPASS <input type="checkbox"/> BELOW GRADE HWY <input checked="" type="checkbox"/> APPROACH RAMP
STRUCTURE DESCRIPTION	BOAT SECTION WITH CAISSON RETAINING WALLS OF VARIABLE HEIGHTS				



ELEVATION SKETCH
1:400



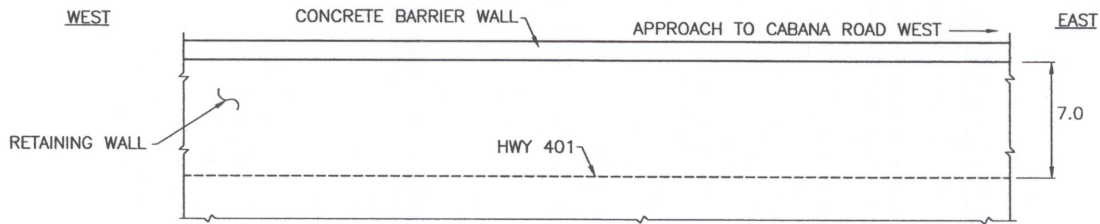
CROSS-SECTION SKETCH
1:400

LENGTH (m)	450		WIDTH (m)	----	
STRUCTURAL DEPTH (m)	----		SPAN/DEPTH RATIO	----	
SKEW ANGLE	----		VERTICAL CLEARANCE (m)	----	
UNIT PRICE (\$/m)	NEW STRUCTURE	30,000	ESTIMATED COST (\$)	13,500,000	
	REHABILITATION	----			
COMMENTS (SPECIAL CONSTRUCTION & DESIGN FEATURES)					
NAME OF CONSULTANT (FOR PLANNING)	URS CANADA INC.		DATE	FEBRUARY 2007	

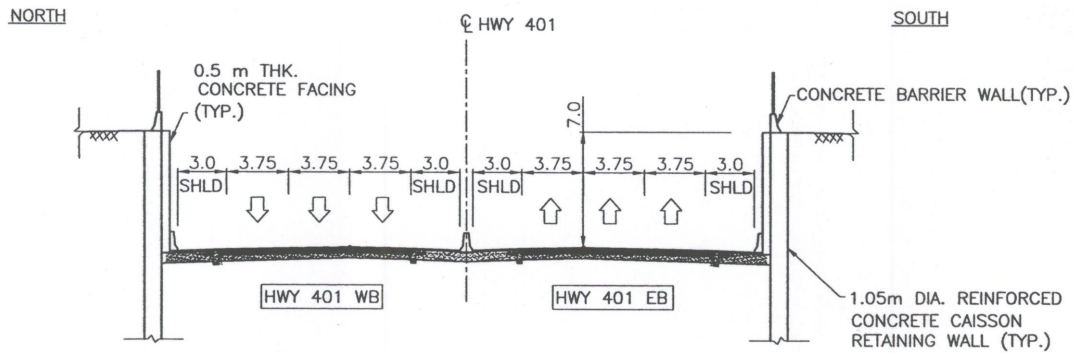
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STRUCTURAL PLANNING SHEET

W.O.NO.	----	CORRIDOR	HC-T	ROUTE	ALIGNMENT ALTERNATIVE 2A
STRUCTURE I.D.	2A-41	SITE NO.	----	LOCATION	HWY 401 NEAR CABANA ROAD WEST / TODD LANE
STRUCTURE NAME	BELOW GRADE HWY 401 AT WEST OF CABANA ROAD WEST/TODD LANE		<input type="checkbox"/> EXISTING <input checked="" type="checkbox"/> NEW	<input type="checkbox"/> OVERPASS <input type="checkbox"/> UNDERPASS	<input checked="" type="checkbox"/> BELOW GRADE HWY <input type="checkbox"/> APPROACH RAMP
STRUCTURE DESCRIPTION	BOAT SECTION WITH CAISSON RETAINING WALLS OF UNIFORM HEIGHTS				



ELEVATION SKETCH
1:400



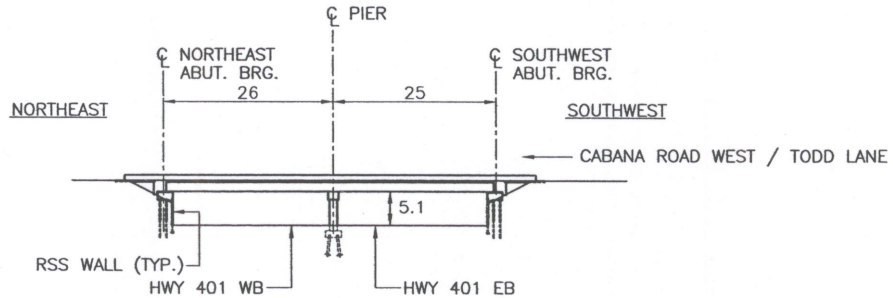
CROSS-SECTION SKETCH
1:400

LENGTH (m)	50	WIDTH (m)	----
STRUCTURAL DEPTH (m)	----	SPAN/DEPTH RATIO	----
SKEW ANGLE	----	VERTICAL CLEARANCE (m)	----
UNIT PRICE (\$/m)	NEW STRUCTURE	45,000	ESTIMATED COST (\$)
	REHABILITATION	----	
COMMENTS (SPECIAL CONSTRUCTION & DESIGN FEATURES)			
NAME OF CONSULTANT (FOR PLANNING)	URS CANADA INC.	DATE	FEBRUARY 2007

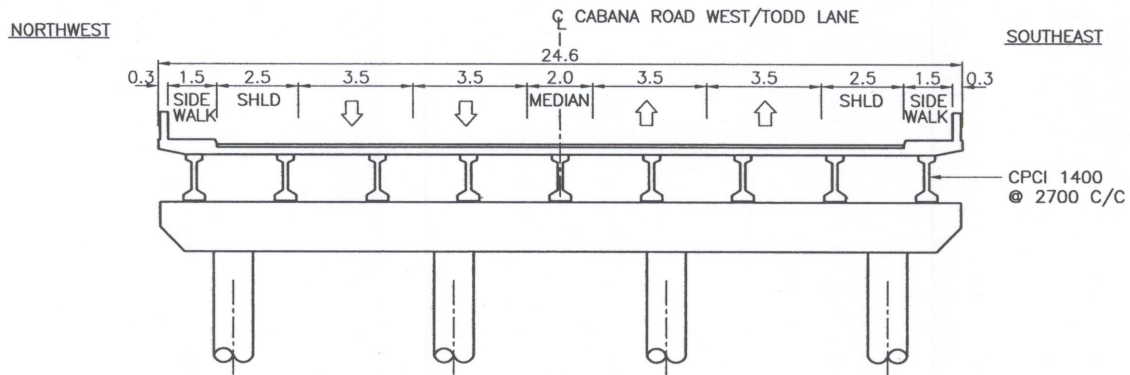
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STRUCTURAL PLANNING SHEET

W.O.NO.	----	CORRIDOR	HC-T	ROUTE	ALIGNMENT ALTERNATIVE 2A
STRUCTURE I.D.	2A-42	SITE NO.	----	LOCATION	CABANA ROAD WEST / TODD LANE ABOVE HWY 401
BRIDGE NAME	CABANA ROAD WEST UNDERPASS			<input type="checkbox"/> EXISTING <input checked="" type="checkbox"/> NEW	<input type="checkbox"/> OVERPASS <input type="checkbox"/> BELOW GRADE HWY <input checked="" type="checkbox"/> UNDERPASS <input type="checkbox"/> APPROACH RAMP
STRUCTURE DESCRIPTION	TWO SPANS CPCI 1400 GIRDERS ON SEMI-INTEGRAL ABUTMENTS WITH RSS WALL.				



ELEVATION SKETCH
1:1000



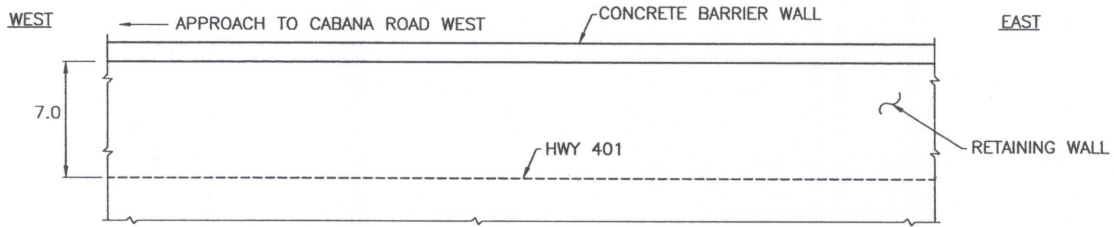
CROSS-SECTION SKETCH
1:200

LENGTH (m)	51	WIDTH (m)	24.60	
STRUCTURAL DEPTH (m)	1.7	SPAN/DEPTH RATIO	15	
SKEW ANGLE	45°	VERTICAL CLEARANCE (m)	5.1	
UNIT PRICE (\$/m ²)	NEW STRUCTURE	2,200	ESTIMATED COST (\$)	2,760,000
	REHABILITATION	----		
COMMENTS (SPECIAL CONSTRUCTION & DESIGN FEATURES)	<ul style="list-style-type: none"> - OUTER SURFACE RSS WALL OF ABUTMENT TO MATCH THE RW OF DEPRESSED HWY 401 ON EITHER SIDE OF THE BRIDGE CROSSING - SEMI-INTEGRAL ABUTMENTS DUE TO 45° SKEW - ADDITIONAL S.C.L. MAY BE REQUIRED FOR HIGHER TRAFFIC FOR DESIGN YEAR 2035. THE TRAFFIC REQUIREMENTS ARE CURRENTLY BEING REVIEWED. 			
NAME OF CONSULTANT (FOR PLANNING)	URS CANADA INC.		DATE	FEBRUARY 2007

FILENAME:O:\DRIC\16_Structure\CAOD\Planning Sheets\Hwy Alternatives\2007\Bridge-Alt-07-July 18-2007\REVISIONS.dwg
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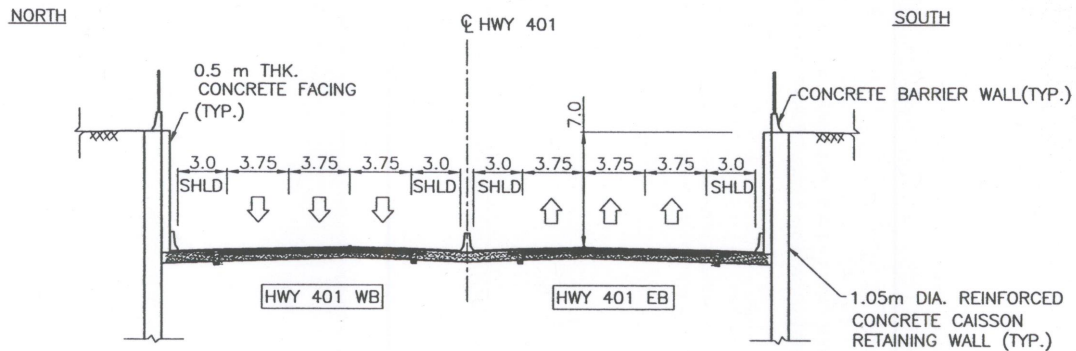
STRUCTURAL PLANNING SHEET

W.O.NO.	----	CORRIDOR	HC-T	ROUTE	ALIGNMENT ALTERNATIVE 2A
STRUCTURE I.D.	2A-43	SITE NO.	----	LOCATION	HWY 401 NEAR CABANA ROAD WEST / TODD LANE
STRUCTURE NAME	BELOW GRADE HWY 401 AT EAST OF CABANA ROAD WEST		<input type="checkbox"/> EXISTING <input checked="" type="checkbox"/> NEW		<input type="checkbox"/> OVERPASS <input checked="" type="checkbox"/> BELOW GRADE HWY <input type="checkbox"/> UNDERPASS <input type="checkbox"/> APPROACH RAMP
STRUCTURE DESCRIPTION	BOAT SECTION WITH CAISSON RETAINING WALLS OF UNIFORM HEIGHTS				



ELEVATION SKETCH

1:400



CROSS-SECTION SKETCH

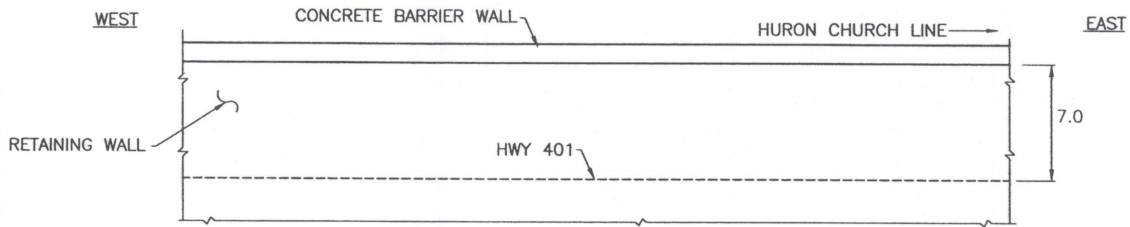
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LENGTH (m)	350	WIDTH (m)	----
STRUCTURAL DEPTH (m)	----	SPAN/DEPTH RATIO	----
SKEW ANGLE	----	VERTICAL CLEARANCE (m)	----
UNIT PRICE (\$/m)	NEW STRUCTURE	45,000	ESTIMATED COST (\$) 15,750,000
	REHABILITATION	----	
COMMENTS (SPECIAL CONSTRUCTION & DESIGN FEATURES)			
NAME OF CONSULTANT (FOR PLANNING)	URS CANADA INC.	DATE	FEBRUARY 2007

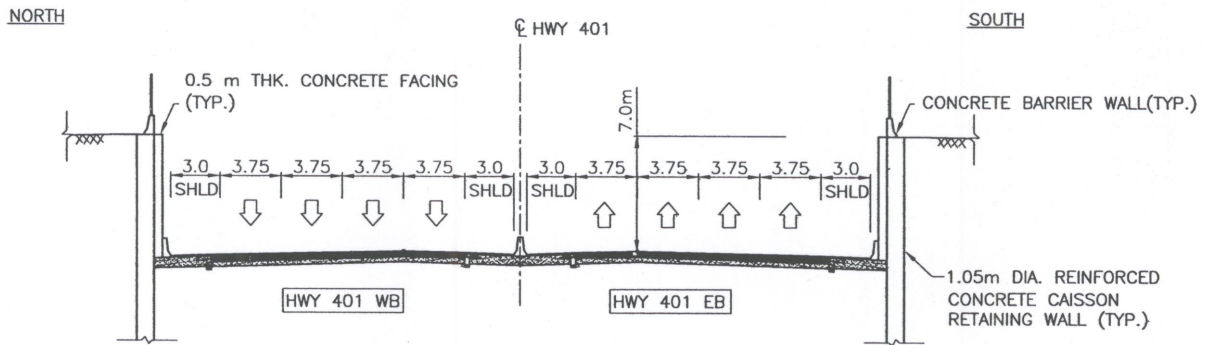
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 PLOTDATE: Aug 06, 2007 - 11:58am

STRUCTURAL PLANNING SHEET

W.O.NO.	----	CORRIDOR	HC-T	ROUTE	ALIGNMENT ALTERNATIVE 2A
STRUCTURE I.D.	2A-44	SITE NO.	----	LOCATION	HURON CHURCH LINE ABOVE HWY 401
STRUCTURE NAME	BELOW GRADE HWY 401 AT WEST OF HURON CHURCH LINE		<input type="checkbox"/> EXISTING <input checked="" type="checkbox"/> NEW	<input type="checkbox"/> OVERPASS <input type="checkbox"/> UNDERPASS	<input checked="" type="checkbox"/> BELOW GRADE HWY <input type="checkbox"/> APPROACH RAMP
STRUCTURE DESCRIPTION	BOAT SECTION WITH CAISSON RETAINING WALLS OF UNIFORM HEIGHTS				



ELEVATION SKETCH
1:400



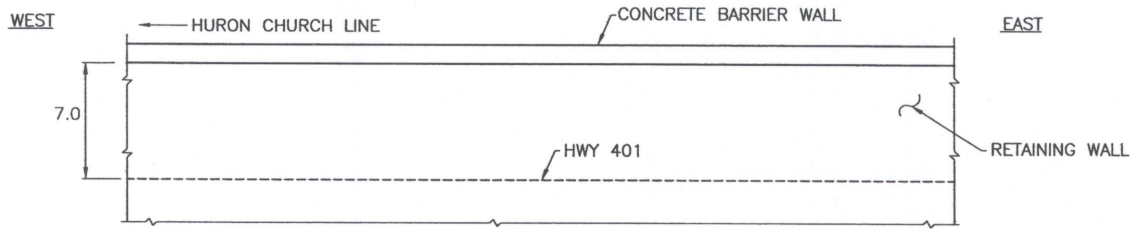
CROSS-SECTION SKETCH
1:400

LENGTH (m)	75	WIDTH (m)	----
STRUCTURAL DEPTH (m)	----	SPAN/DEPTH RATIO	----
SKEW ANGLE	----	VERTICAL CLEARANCE (m)	----
UNIT PRICE (\$/m)	NEW STRUCTURE	45,000	ESTIMATED COST (\$) 3,375,000
	REHABILITATION	----	
COMMENTS (SPECIAL CONSTRUCTION & DESIGN FEATURES)	APPROACH RAMPS OF SLIP RD (TOWARDS HURON CHURCH LINE AND CABANA ROAD WEST / TODD LANE SIDE) TO HWY 401 INCLUDED		
NAME OF CONSULTANT (FOR PLANNING)	URS CANADA INC.	DATE	FEBRUARY 2007

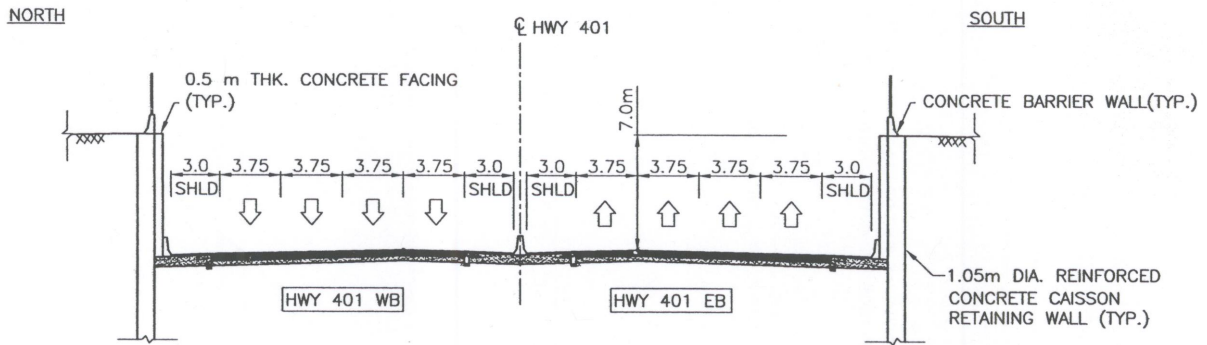
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STRUCTURAL PLANNING SHEET

W.O.NO.	----	CORRIDOR	HC-T	ROUTE	ALIGNMENT ALTERNATIVE 2A
STRUCTURE I.D.	2A-45	SITE NO.	----	LOCATION	HURON CHURCH LINE ABOVE HWY 401
STRUCTURE NAME	BELOW GRADE WIDER HWY 401 AT EAST OF HURON CHURCH LINE		<input type="checkbox"/> EXISTING <input checked="" type="checkbox"/> NEW	<input type="checkbox"/> OVERPASS <input type="checkbox"/> UNDERPASS	<input checked="" type="checkbox"/> BELOW GRADE HWY <input type="checkbox"/> APPROACH RAMP
STRUCTURE DESCRIPTION	BOAT SECTION WITH CAISSON RETAINING WALLS OF UNIFORM HEIGHTS				



ELEVATION SKETCH
1:400



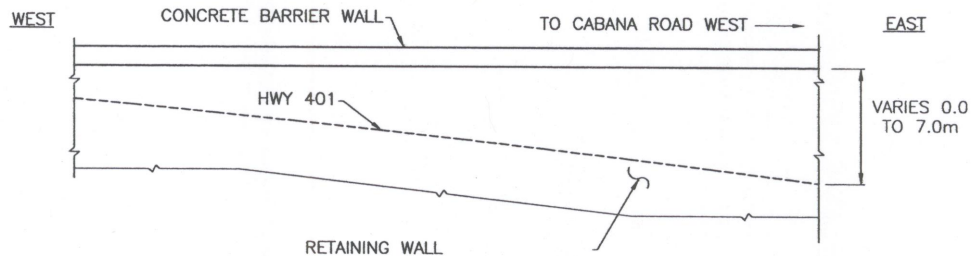
CROSS-SECTION SKETCH
1:400

LENGTH (m)	100		WIDTH (m)	----	
STRUCTURAL DEPTH (m)	----		SPAN/DEPTH RATIO	----	
SKEW ANGLE	----		VERTICAL CLEARANCE (m)	----	
UNIT PRICE (\$/m)	NEW STRUCTURE	45,000	ESTIMATED COST (\$)	4,500,000	
	REHABILITATION	----			
COMMENTS (SPECIAL CONSTRUCTION & DESIGN FEATURES)	APPROACH RAMPS OF SLIP RD (TOWARDS HURON CHURCH LINE AND CABANA ROAD WEST / TODD LANE SIDE) TO HWY 401 INCLUDED				
NAME OF CONSULTANT (FOR PLANNING)	URS CANADA INC.		DATE	FEBRUARY 2007	

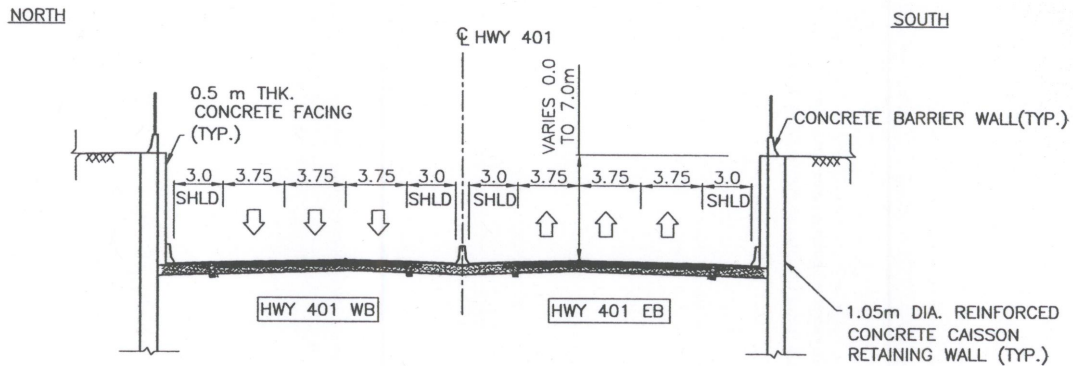
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STRUCTURAL PLANNING SHEET

W.O.NO.	----	CORRIDOR	HC-T	ROUTE	ALIGNMENT ALTERNATIVE 2A
STRUCTURE I.D.	2A-46	SITE NO.	----	LOCATION	HWY 401 WEST OF CABANA ROAD WEST / TODD LANE
STRUCTURE NAME	APPROACH RAMP OF HWY 401 AT WEST OF CABANA ROAD WEST / TODD LANE			<input type="checkbox"/> EXISTING <input checked="" type="checkbox"/> NEW	<input type="checkbox"/> OVERPASS <input type="checkbox"/> UNDERPASS <input type="checkbox"/> BELOW GRADE HWY <input checked="" type="checkbox"/> APPROACH RAMP
STRUCTURE DESCRIPTION	BOAT SECTION WITH CAISSON RETAINING WALLS OF VARIABLE HEIGHTS				



ELEVATION SKETCH
1:400



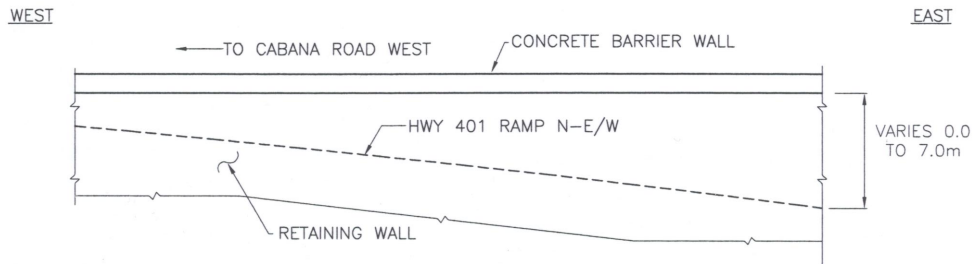
CROSS-SECTION SKETCH
1:400

LENGTH (m)	375	WIDTH (m)	----
STRUCTURAL DEPTH (m)	----	SPAN/DEPTH RATIO	----
SKEW ANGLE	----	VERTICAL CLEARANCE (m)	----
UNIT PRICE (\$/m)	NEW STRUCTURE	30,000	ESTIMATED COST (\$)
	REHABILITATION	----	
COMMENTS (SPECIAL CONSTRUCTION & DESIGN FEATURES)			
NAME OF CONSULTANT (FOR PLANNING)	URS CANADA INC.	DATE	FEBRUARY 2007

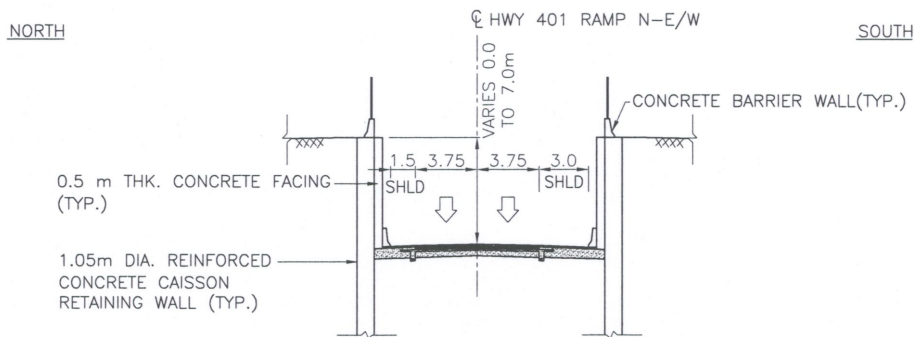
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STRUCTURAL PLANNING SHEET

W.O.NO.	----	CORRIDOR	HC-T	ROUTE	ALIGNMENT ALTERNATIVE 2A
STRUCTURE I.D.	2A-47	SITE NO.	----	LOCATION	SIDE ROAD RAMP W-E TO HWY 401 AT EAST OF CABANA ROAD WEST
STRUCTURE NAME	APPROACH RAMP OF HWY 401 RAMP N-E/W AT EAST OF CABANA ROAD WEST			<input type="checkbox"/> EXISTING <input checked="" type="checkbox"/> NEW	<input type="checkbox"/> OVERPASS <input type="checkbox"/> UNDERPASS <input type="checkbox"/> BELOW GRADE HWY <input checked="" type="checkbox"/> APPROACH RAMP
STRUCTURE DESCRIPTION	BOAT SECTION WITH CAISSON RETAINING WALLS OF VARIABLE HEIGHTS				



ELEVATION SKETCH
1:400



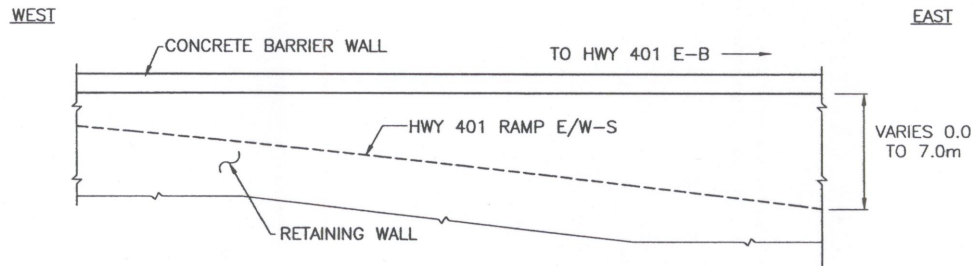
CROSS-SECTION SKETCH
1:400

LENGTH (m)	340	WIDTH (m)	----
STRUCTURAL DEPTH (m)	----	SPAN/DEPTH RATIO	----
SKEW ANGLE	----	VERTICAL CLEARANCE (m)	----
UNIT PRICE (\$/m)	NEW STRUCTURE	30,000	ESTIMATED COST (\$) 10,200,000
	REHABILITATION	----	
COMMENTS (SPECIAL CONSTRUCTION & DESIGN FEATURES)			
NAME OF CONSULTANT (FOR PLANNING)	URS CANADA INC.	DATE	FEBRUARY 2007

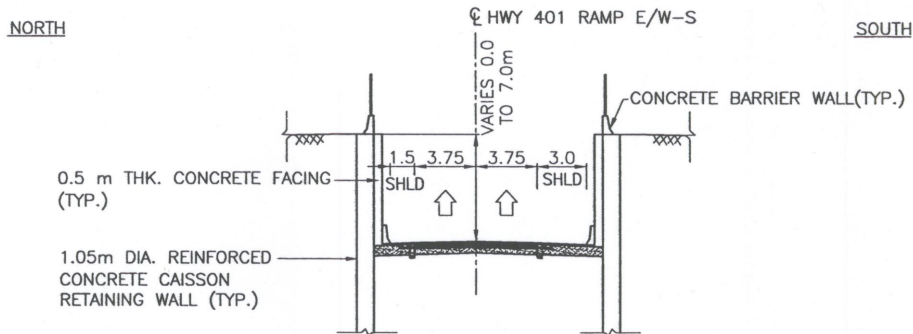
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STRUCTURAL PLANNING SHEET

W.O.NO.	----	CORRIDOR	HC-T	ROUTE	ALIGNMENT ALTERNATIVE 2A
STRUCTURE I.D.	2A-48	SITE NO.	----	LOCATION	SIDE ROAD RAMP E-W TO HWY 401 AT EAST OF CABANA ROAD WEST
STRUCTURE NAME	APPROACH RAMP OF HWY 401 RAMP E/W-S AT EAST OF CABANA ROAD WEST		<input type="checkbox"/> EXISTING <input checked="" type="checkbox"/> NEW		<input type="checkbox"/> OVERPASS <input type="checkbox"/> UNDERPASS <input type="checkbox"/> BELOW GRADE HWY <input checked="" type="checkbox"/> APPROACH RAMP
STRUCTURE DESCRIPTION	BOAT SECTION WITH CAISSON RETAINING WALLS OF VARIABLE HEIGHTS				



ELEVATION SKETCH
1:400



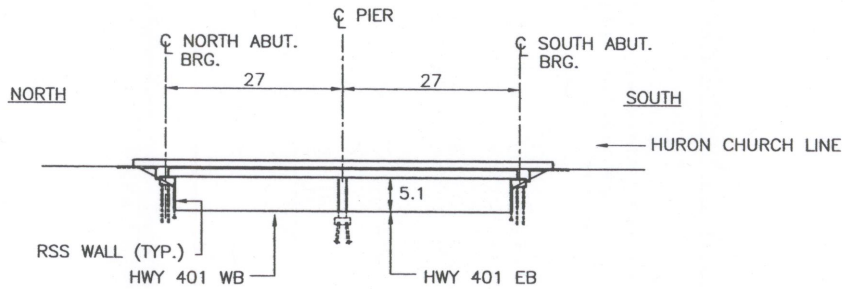
CROSS-SECTION SKETCH
1:400

LENGTH (m)	340	WIDTH (m)	----
STRUCTURAL DEPTH (m)	----	SPAN/DEPTH RATIO	----
SKEW ANGLE	----	VERTICAL CLEARANCE (m)	----
UNIT PRICE (\$/m)	NEW STRUCTURE	30,000	ESTIMATED COST (\$) 10,200,000
	REHABILITATION	----	
COMMENTS (SPECIAL CONSTRUCTION & DESIGN FEATURES)			
NAME OF CONSULTANT (FOR PLANNING)	URS CANADA INC.	DATE	FEBRUARY 2007

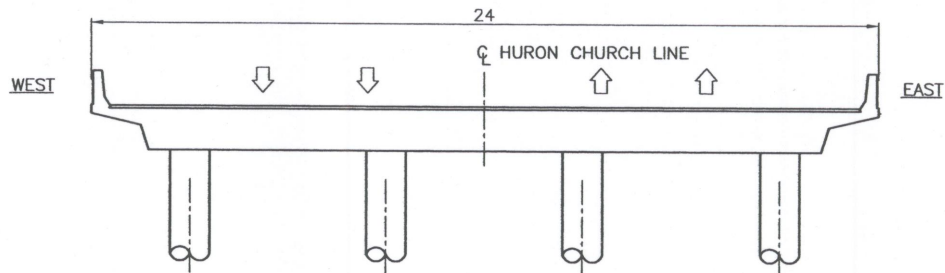
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 PLOTDATE:Aug 06, 2007 -- 11:58am

STRUCTURAL PLANNING SHEET

W.O.NO.	----	CORRIDOR	HC-T	ROUTE	ALIGNMENT ALTERNATIVE 2A
STRUCTURE I.D.	2A-49	SITE NO.	----	LOCATION	HURON CHURCH LINE ABOVE HWY 401
BRIDGE NAME	HURON CHURCH LINE UNDERPASS			<input type="checkbox"/> EXISTING <input checked="" type="checkbox"/> NEW	<input type="checkbox"/> OVERPASS <input checked="" type="checkbox"/> UNDERPASS
STRUCTURE DESCRIPTION	TWO SPAN POST-TENSIONED ON SEMI-INTEGRAL ABUTMENT WITH RSS WALLS				



ELEVATION SKETCH
1:1000



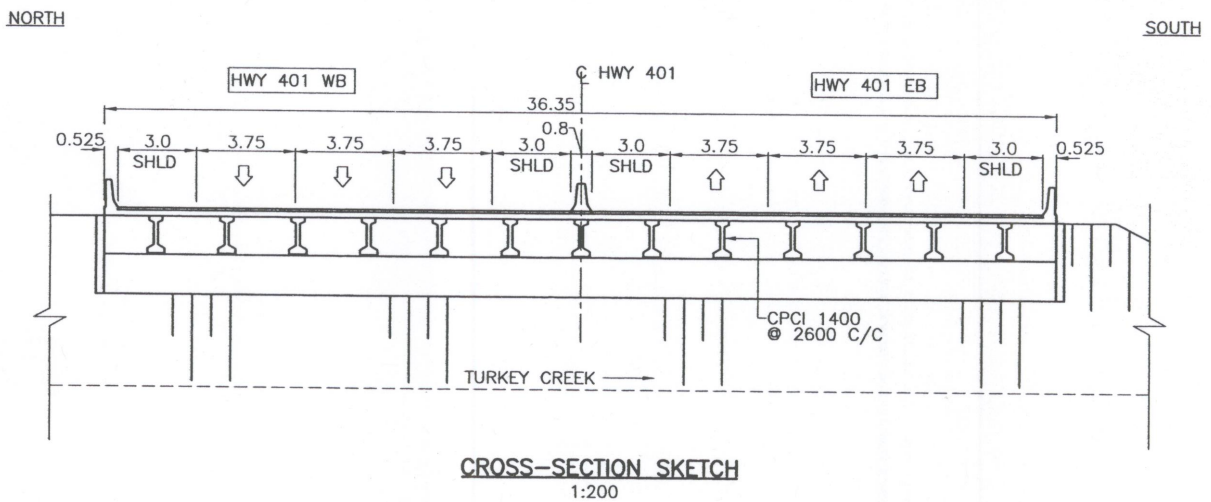
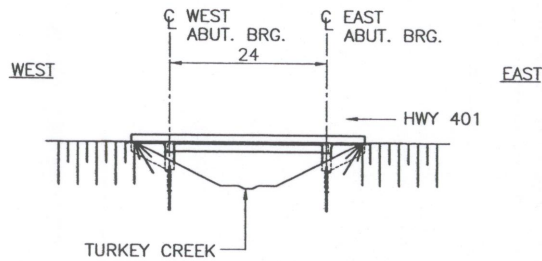
CROSS-SECTION SKETCH
1:200

LENGTH (m)	54	WIDTH (m)	24
STRUCTURAL DEPTH (m)	1.25	SPAN/DEPTH RATIO	22
SKEW ANGLE	15°	VERTICAL CLEARANCE (m)	5.1
UNIT PRICE (\$/m ²)	NEW STRUCTURE	2,300	ESTIMATED COST (\$)
	REHABILITATION	----	
COMMENTS (SPECIAL CONSTRUCTION & DESIGN FEATURES)	<ul style="list-style-type: none"> - AVERAGE WIDTH OF HURON CHURCH LINE CROSS ROAD CONSIDERED. - SEMI-INTEGRAL ABUTMENTS DUE TO LARGE VARIATION IN DECK WIDTHS 		
NAME OF CONSULTANT (FOR PLANNING)	URS CANADA INC.	DATE	FEBRUARY 2007

FILENAME:DRIC\16_Structure\CAOD\Planning Sheets\Hwy Alternatives\2007\Bridges\Alt-07-July 18-2007\REVISIONS.dwg
 PLOTDATE:Aug 06, 2007 - 11:58am

STRUCTURAL PLANNING SHEET

W.O.NO.	----	CORRIDOR	HC-T	ROUTE	ALIGNMENT ALTERNATIVE 2A
STRUCTURE I.D.	2A-50	SITE NO.	----	LOCATION	HWY 401 CROSSING OVER TURKEY CREEK
BRIDGE TYPE	TURKEY CREEK BRIDGE			<input type="checkbox"/> EXISTING <input checked="" type="checkbox"/> NEW	<input checked="" type="checkbox"/> OVERPASS <input type="checkbox"/> BELOW GRADE HWY <input type="checkbox"/> UNDERPASS <input type="checkbox"/> APPROACH RAMP
STRUCTURE DESCRIPTION	SINGLE SPAN CPCI 1400 GIRDERS WITH INTEGRAL ABUTMENTS				

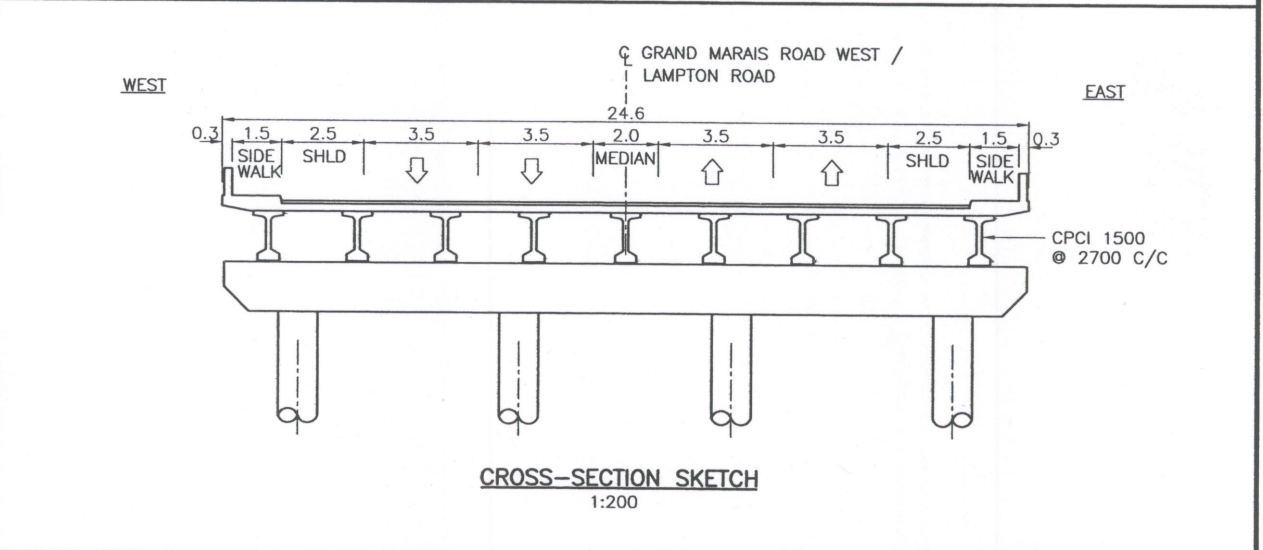
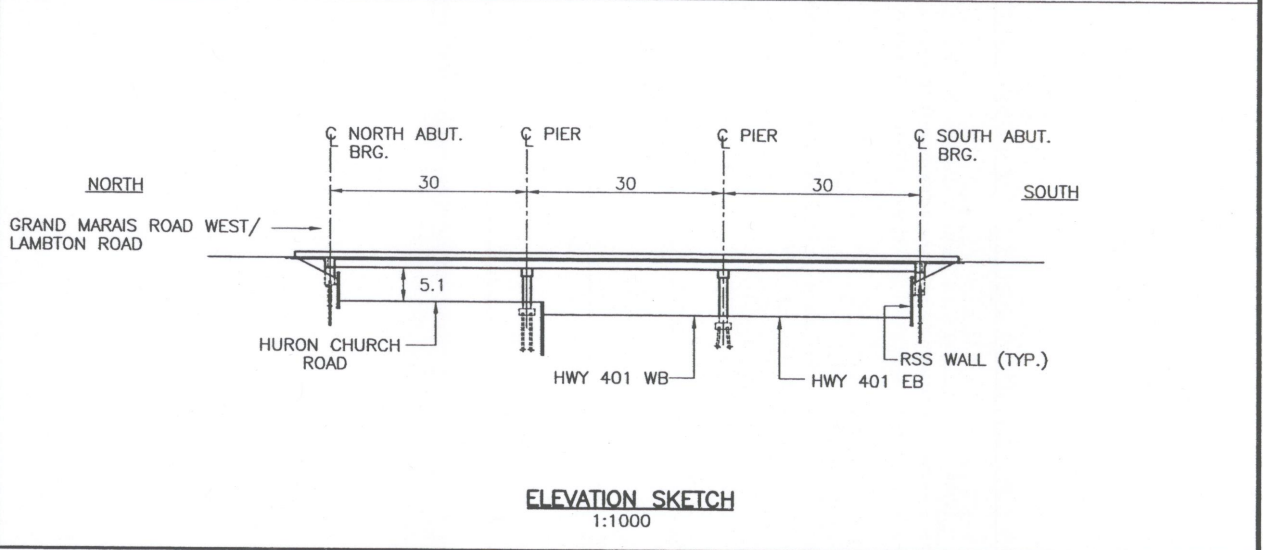


LENGTH (m)	24	WIDTH (m)	36.35
STRUCTURAL DEPTH (m)	1.7	SPAN/DEPTH RATIO	16
SKEW ANGLE	NO	VERTICAL CLEARANCE (m)	--
UNIT PRICE (\$/m2)	NEW STRUCTURE	2,000	ESTIMATED COST (\$) 1,745,000
	REHABILITATION	----	
COMMENTS (SPECIAL CONSTRUCTION & DESIGN FEATURES)	CROSSING OVER TURKEY CREEK		
NAME OF CONSULTANT (FOR PLANNING)	URS CANADA INC.	DATE	JULY 2007

FILENAME: c:\p18\Structure\GDD\Planning Sheets\ Hwy Alternatives\2007\ Bridge-Alt-07-July 18-2007\REVISIONS.dwg
 PLOTTED: Aug 06, 2007 - 11:58am

STRUCTURAL PLANNING SHEET

W.O.NO.	----	CORRIDOR	HC-T	ROUTE	ALIGNMENT ALTERNATIVE 2A
STRUCTURE I.D.	2A-51	SITE NO.	----	LOCATION	GRAND MARAIS ROAD WEST / LAMPTON ROAD OVER HWY 401
BRIDGE NAME	GRAND MARAIS ROAD WEST UNDERPASS			<input type="checkbox"/> EXISTING <input checked="" type="checkbox"/> NEW	<input type="checkbox"/> OVERPASS <input checked="" type="checkbox"/> UNDERPASS <input type="checkbox"/> BELOW GRADE HWY <input type="checkbox"/> APPROACH RAMP
STRUCTURE DESCRIPTION	THREE SPANS CPCI 1500 GIRDERS ON INTEGRAL ABUTMENTS WITH RSS WALL				

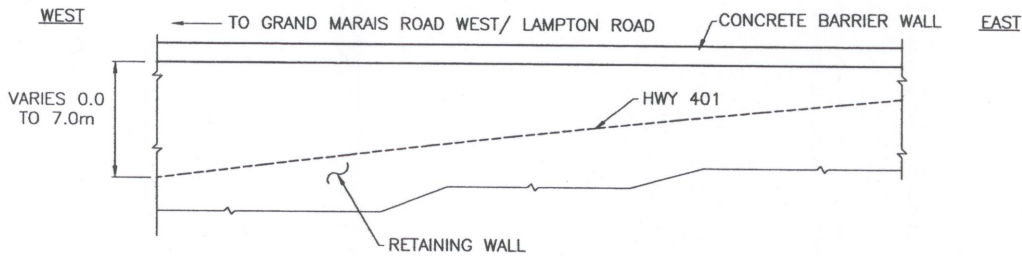


LENGTH (m)	90	WIDTH (m)	24.60
STRUCTURAL DEPTH (m)	1.8	SPAN/DEPTH RATIO	17
SKEW ANGLE	20°	VERTICAL CLEARANCE (m)	5.1
UNIT PRICE (\$/m ²)	NEW STRUCTURE	2,100	ESTIMATED COST (\$) 4,649,000
	REHABILITATION	----	
COMMENTS (SPECIAL CONSTRUCTION & DESIGN FEATURES)	- OUTER SURFACE OF RSS WALL OF SOUTH ABUTMENT AND PIER AT NORTH ABUTMENT SIDE TO MATCH THE RW OF DEPRESSED HWY 401 ON EITHER SIDE OF THE BRIDGE CROSSING.		
NAME OF CONSULTANT (FOR PLANNING)	URS CANADA INC.	DATE	JULY 2007

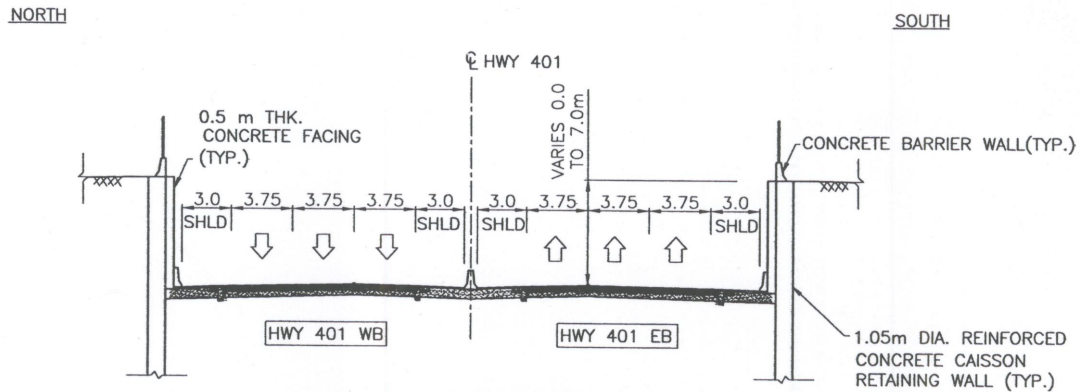
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STRUCTURAL PLANNING SHEET

W.O.NO.	----	CORRIDOR	HC-T	ROUTE	ALIGNMENT ALTERNATIVE 2A	
STRUCTURE I.D.	2A-60	SITE NO.	----	LOCATION	HWY 401 AT GRAND MARAIS ROAD WEST/LAMPTON ROAD	
STRUCTURE NAME	APPROACH RAMP OF HWY 401 AT GRAND MARAIS ROAD WEST SIDE			<input type="checkbox"/> EXISTING <input checked="" type="checkbox"/> NEW	<input type="checkbox"/> OVERPASS <input type="checkbox"/> UNDERPASS	<input type="checkbox"/> BELOW GRADE HWY <input checked="" type="checkbox"/> APPROACH RAMP
STRUCTURE DESCRIPTION	BOAT SECTION WITH CAISSON RETAINING WALL OF VARIABLE HEIGHTS					



ELEVATION SKETCH
1:400



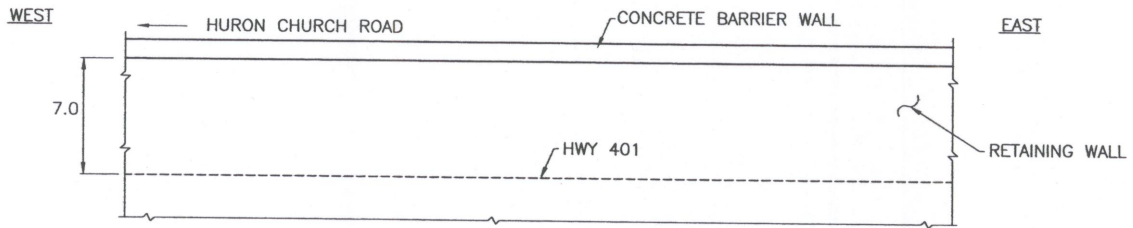
CROSS-SECTION SKETCH
1:400

LENGTH (m)	273		WIDTH (m)	----
STRUCTURAL DEPTH (m)	----		SPAN/DEPTH RATIO	----
SKEW ANGLE	----		VERTICAL CLEARANCE (m)	----
UNIT PRICE (\$/m)	NEW STRUCTURE	30,000	ESTIMATED COST (\$)	8,190,000
	REHABILITATION	----		
COMMENTS (SPECIAL CONSTRUCTION & DESIGN FEATURES)	----			
NAME OF CONSULTANT (FOR PLANNING)	URS CANADA INC.		DATE	FEBRUARY 2007

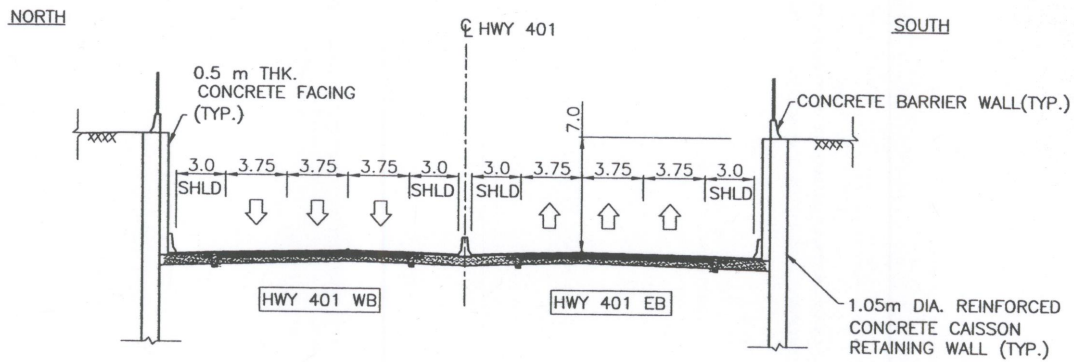
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STRUCTURAL PLANNING SHEET

W.O.NO.	----	CORRIDOR	HC-T	ROUTE	ALIGNMENT ALTERNATIVE 2A
STRUCTURE I.D.	2A-61	SITE NO.	----	LOCATION	HWY 401 AT JUST WEST OF HURON CHURCH ROAD
STRUCTURE NAME	BELOW GRADE HWY 401 AT JUST WEST OF GRAND MARAIS ROAD WEST			<input type="checkbox"/> EXISTING <input checked="" type="checkbox"/> NEW	<input type="checkbox"/> OVERPASS <input checked="" type="checkbox"/> BELOW GRADE HWY <input type="checkbox"/> UNDERPASS <input type="checkbox"/> APPROACH RAMP
STRUCTURE DESCRIPTION	BOAT SECTION WITH CAISSON RETAINING WALLS OF UNIFORM HEIGHTS				



ELEVATION SKETCH
1:400



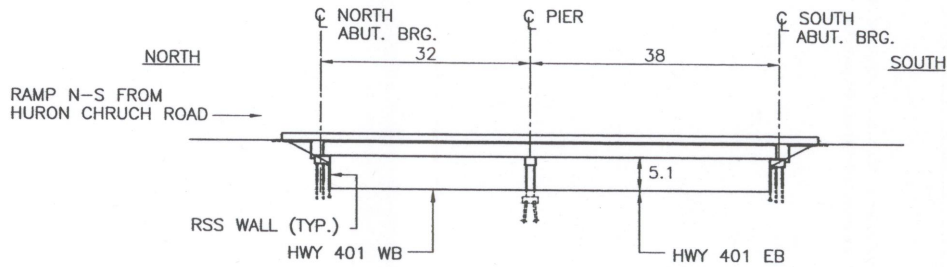
CROSS-SECTION SKETCH
1:400

LENGTH (m)	125	WIDTH (m)	----
STRUCTURAL DEPTH (m)	----	SPAN/DEPTH RATIO	----
SKEW ANGLE	----	VERTICAL CLEARANCE (m)	----
UNIT PRICE (\$/m)	NEW STRUCTURE	45,000	ESTIMATED COST (\$)
	REHABILITATION	----	
COMMENTS (SPECIAL CONSTRUCTION & DESIGN FEATURES)	----		
NAME OF CONSULTANT (FOR PLANNING)	URS CANADA INC.	DATE	FEBRUARY 2007

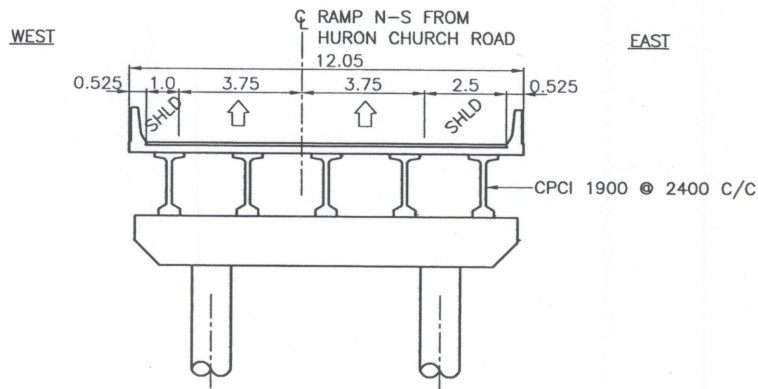
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STRUCTURAL PLANNING SHEET

W.O.NO.	----	CORRIDOR	HC-T	ROUTE	ALIGNMENT ALTERNATIVE 2A
STRUCTURE I.D.	2A-62	SITE NO.	----	LOCATION	HURON CHURCH ROAD RAMP N-S OVER HWY 401
BRIDGE NAME	HURON CHURCH ROAD RAMP N-S UNDERPASS			<input type="checkbox"/> EXISTING <input checked="" type="checkbox"/> NEW	<input type="checkbox"/> OVERPASS <input checked="" type="checkbox"/> UNDERPASS
STRUCTURE DESCRIPTION	TWO SPANS CPCI 1900 GIRDERS ON SEMI-INTEGRAL ABUTMENTS WITH RSS WALL				



ELEVATION SKETCH
1:1000



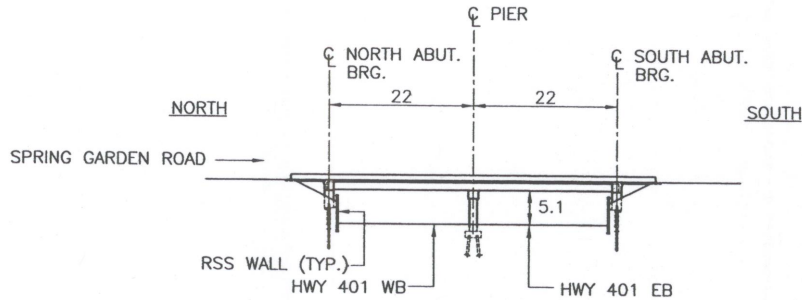
CROSS-SECTION SKETCH
1:200

LENGTH (m)	70	WIDTH (m)	12.05
STRUCTURAL DEPTH (m)	2.2	SPAN/DEPTH RATIO	17
SKEW ANGLE	45°	VERTICAL CLEARANCE (m)	5.1
UNIT PRICE (\$/m ²)	NEW STRUCTURE	2,200	ESTIMATED COST (\$)
	REHABILITATION	----	
COMMENTS (SPECIAL CONSTRUCTION & DESIGN FEATURES)	<ul style="list-style-type: none"> - OUTER SURFACE OF RSS WALL OF ABUTMENTS TO MATCH THE RW OF DEPRESSED HWY 401 ON EITHER SIDE OF THE BRIDGE CROSSING. - SEMI-INTEGRAL ABUTMENTS DUE TO 45° SKEW. 		
NAME OF CONSULTANT (FOR PLANNING)	URS CANADA INC.	DATE	FEBRUARY 2007

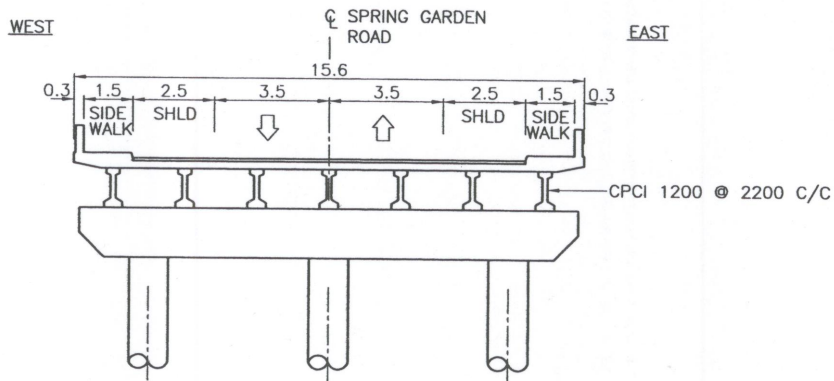
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STRUCTURAL PLANNING SHEET

W.O.NO.	----	CORRIDOR	HC-T	ROUTE	ALIGNMENT ALTERNATIVE 2A
STRUCTURE I.D.	2A-63	SITE NO.	----	LOCATION	SPRING GARDEN ROAD ABOVE HWY 401
BRIDGE TYPE	SPRING GARDEN ROAD UNDERPASS			<input type="checkbox"/> EXISTING <input checked="" type="checkbox"/> NEW	<input type="checkbox"/> OVERPASS <input checked="" type="checkbox"/> UNDERPASS
STRUCTURE DESCRIPTION	TWO SPANS CPCI 1200 GIRDERS ON SEMI-INTEGRAL ABUTMENTS WITH RSS WALL				



ELEVATION SKETCH
1:1000



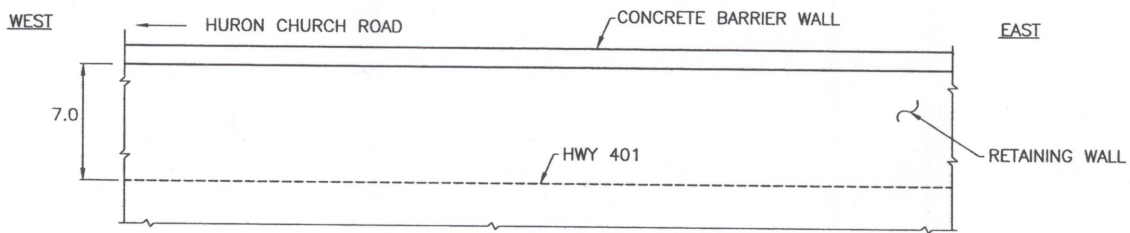
CROSS-SECTION SKETCH
1:200

LENGTH (m)	44	WIDTH (m)	15.60
STRUCTURAL DEPTH (m)	1.5	SPAN/DEPTH RATIO	15
SKEW ANGLE	20°	VERTICAL CLEARANCE (m)	5.1
UNIT PRICE (\$/m ²)	NEW STRUCTURE	2,100	ESTIMATED COST (\$) 1,441,000
	REHABILITATION	----	
COMMENTS (SPECIAL CONSTRUCTION & DESIGN FEATURES)	- OUTER SURFACE OF RSS WALL OF ABUTMENTS TO MATCH THE RW OF DEPRESSED HWY 401 ON EITHER SIDE OF THE BRIDGE CROSSING.		
NAME OF CONSULTANT (FOR PLANNING)	URS CANADA INC.	DATE	FEBRUARY 2007

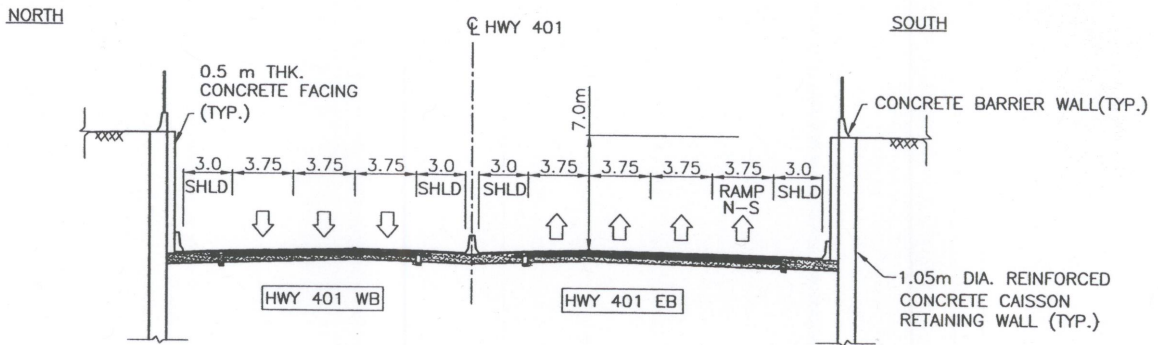
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STRUCTURAL PLANNING SHEET

W.O.NO.	----	CORRIDOR	HC-T	ROUTE	ALIGNMENT ALTERNATIVE 2A
STRUCTURE I.D.	2A-64	SITE NO.	----	LOCATION	HWY 401 AT JUST SOUTH OF HURON CHURCH ROAD
STRUCTURE NAME	BELOW GRADE HWY 401 WITH N-S RAMP AT JUST SOUTH OF HURON CHURCH ROAD			<input type="checkbox"/> EXISTING <input checked="" type="checkbox"/> NEW	<input type="checkbox"/> OVERPASS <input type="checkbox"/> UNDERPASS <input checked="" type="checkbox"/> BELOW GRADE HWY <input type="checkbox"/> APPROACH RAMP
STRUCTURE DESCRIPTION	BOAT SECTION WITH CAISSON RETAINING WALLS OF UNIFORM HEIGHTS				



ELEVATION SKETCH
1:400



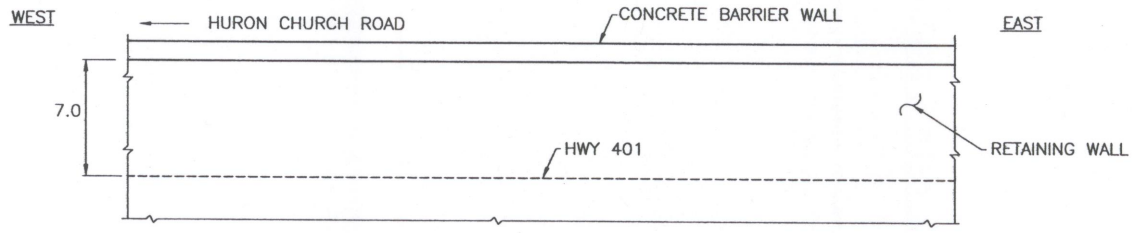
CROSS-SECTION SKETCH
1:400

LENGTH (m)	100	WIDTH (m)	----
STRUCTURAL DEPTH (m)	----	SPAN/DEPTH RATIO	----
SKEW ANGLE	----	VERTICAL CLEARANCE (m)	----
UNIT PRICE (\$/m)	NEW STRUCTURE	45,000	ESTIMATED COST (\$) 4,500,000
	REHABILITATION	----	
COMMENTS (SPECIAL CONSTRUCTION & DESIGN FEATURES)	- WIDER BELOW GRADE HWY WITH RAMP N-S ON ONE SIDE.		
NAME OF CONSULTANT (FOR PLANNING)	URS CANADA INC.	DATE	FEBRUARY 2007

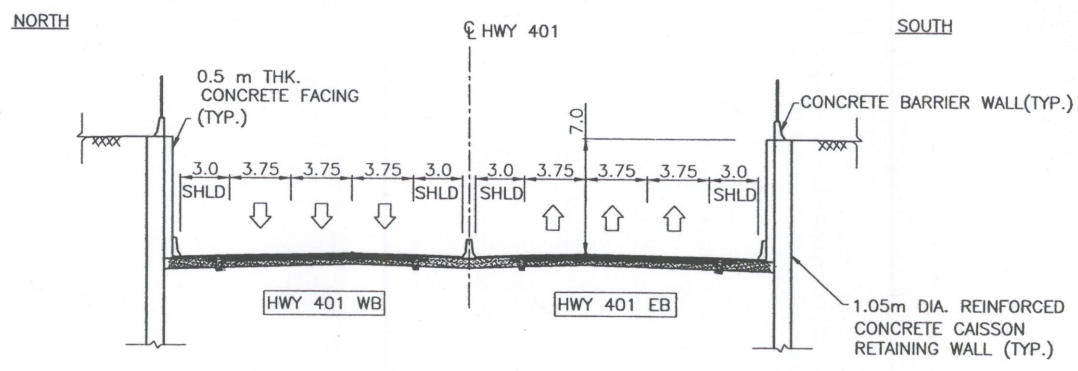
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STRUCTURAL PLANNING SHEET

W.O.NO.	----	CORRIDOR	HC-T	ROUTE	ALIGNMENT ALTERNATIVE 2A	
STRUCTURE I.D.	2A-65	SITE NO.	----	LOCATION	HWY 401 AT JUST SOUTH OF HURON CHURCH ROAD	
STRUCTURE NAME	BELOW GRADE HWY 401 AT JUST SOUTH OF HURON CHURCH ROAD			<input type="checkbox"/> EXISTING <input checked="" type="checkbox"/> NEW	<input type="checkbox"/> OVERPASS <input type="checkbox"/> UNDERPASS	<input checked="" type="checkbox"/> BELOW GRADE HWY <input type="checkbox"/> APPROACH RAMP
STRUCTURE DESCRIPTION	BOAT SECTION WITH CAISSON RETAINING WALLS OF UNIFORM HEIGHTS					



ELEVATION SKETCH
1:400



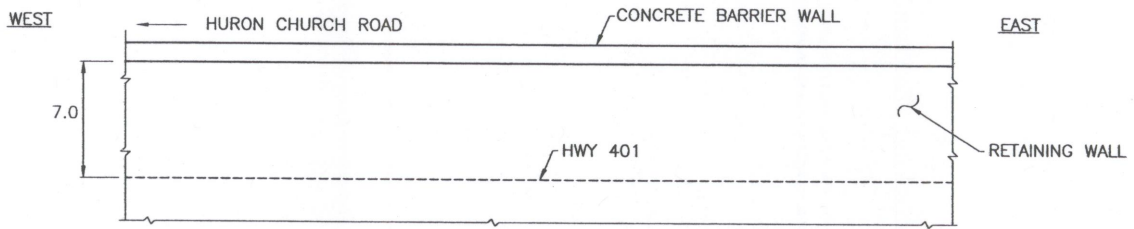
CROSS-SECTION SKETCH
1:400

LENGTH (m)	125	WIDTH (m)	----
STRUCTURAL DEPTH (m)	----	SPAN/DEPTH RATIO	----
SKEW ANGLE	----	VERTICAL CLEARANCE (m)	----
UNIT PRICE (\$/m)	NEW STRUCTURE	45,000	ESTIMATED COST (\$) 5,625,000
	REHABILITATION	----	
COMMENTS (SPECIAL CONSTRUCTION & DESIGN FEATURES)	----		
NAME OF CONSULTANT (FOR PLANNING)	URS CANADA INC.	DATE	FEBRUARY 2007

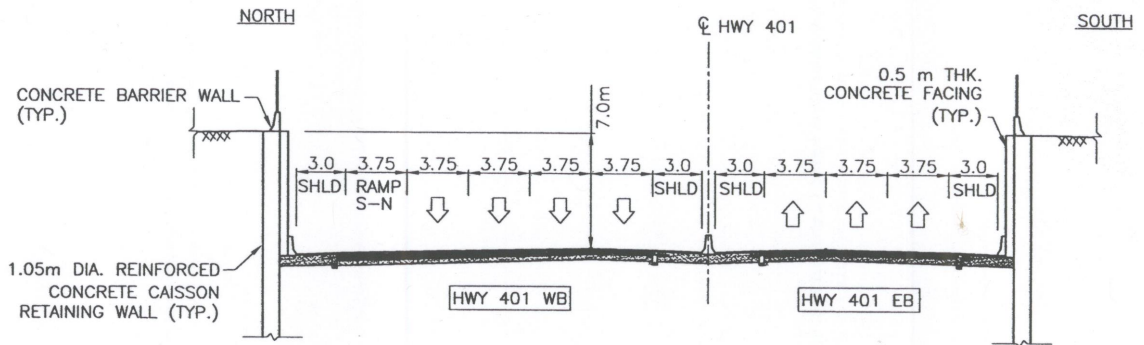
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STRUCTURAL PLANNING SHEET

W.O.NO.	----	CORRIDOR	HC-T	ROUTE	ALIGNMENT ALTERNATIVE 2A
STRUCTURE I.D.	2A-66	SITE NO.	----	LOCATION	HWY 401 AT JUST SOUTH OF HURON CHURCH ROAD
STRUCTURE NAME	BELOW GRADE HWY 401 WITH S-N RAMP AT JUST SOUTH OF HURON CHURCH ROAD			<input type="checkbox"/> EXISTING <input checked="" type="checkbox"/> NEW	<input type="checkbox"/> OVERPASS <input type="checkbox"/> UNDERPASS <input checked="" type="checkbox"/> BELOW GRADE HWY <input type="checkbox"/> APPROACH RAMP
STRUCTURE DESCRIPTION	BOAT SECTION WITH CAISSON RETAINING WALLS OF UNIFORM HEIGHTS				



ELEVATION SKETCH
1:400



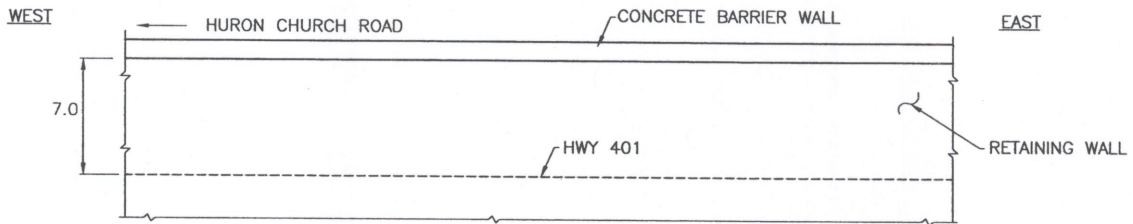
CROSS-SECTION SKETCH
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LENGTH (m)	100	WIDTH (m)	----
STRUCTURAL DEPTH (m)	----	SPAN/DEPTH RATIO	----
SKEW ANGLE	----	VERTICAL CLEARANCE (m)	----
UNIT PRICE (\$/m)	NEW STRUCTURE	45,000	ESTIMATED COST (\$) 4,500,000
	REHABILITATION	----	
COMMENTS (SPECIAL CONSTRUCTION & DESIGN FEATURES)	- WIDER BELOW GRADE HWY WITH RAMP S-N ON ONE SIDE.		
NAME OF CONSULTANT (FOR PLANNING)	URS CANADA INC.	DATE	FEBRUARY 2007

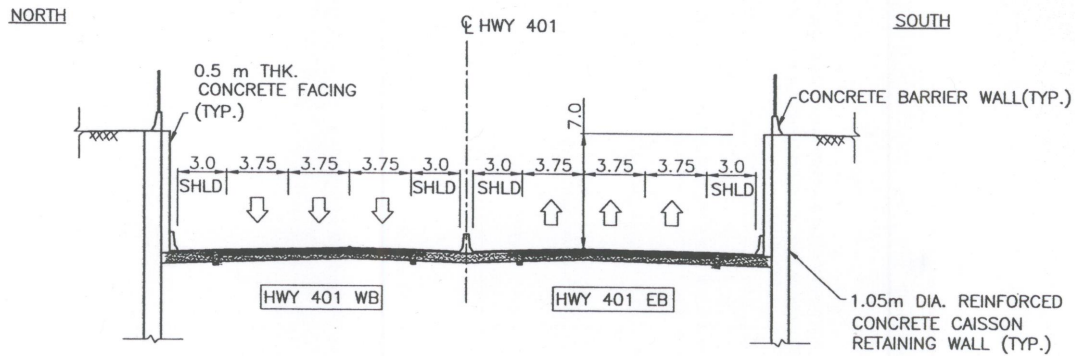
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STRUCTURAL PLANNING SHEET

W.O.NO.	----	CORRIDOR	HC-T	ROUTE	ALIGNMENT ALTERNATIVE 2A
STRUCTURE I.D.	2A-67	SITE NO.	----	LOCATION	HWY 401 AT JUST SOUTH OF HURON CHURCH ROAD
STRUCTURE NAME	BELOW GRADE HWY 401 AT JUST SOUTH OF RAMP N-S		<input type="checkbox"/> EXISTING <input checked="" type="checkbox"/> NEW	<input type="checkbox"/> OVERPASS <input type="checkbox"/> UNDERPASS	<input checked="" type="checkbox"/> BELOW GRADE HWY <input type="checkbox"/> APPROACH RAMP
STRUCTURE DESCRIPTION	BOAT SECTION WITH CAISSON RETAINING WALLS OF UNIFORM HEIGHTS				



ELEVATION SKETCH
1:400



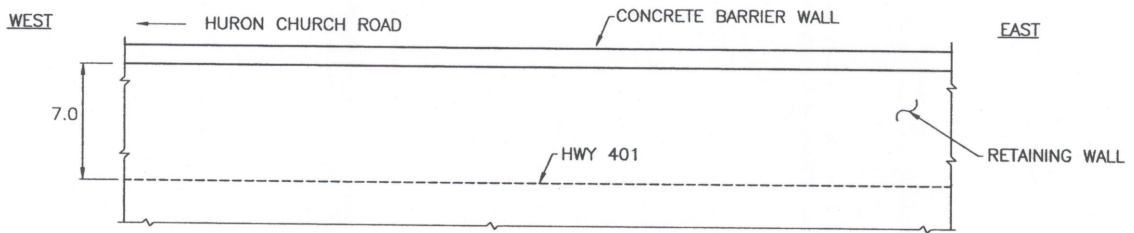
CROSS-SECTION SKETCH
1:400

LENGTH (m)	125	WIDTH (m)	----
STRUCTURAL DEPTH (m)	----	SPAN/DEPTH RATIO	----
SKEW ANGLE	----	VERTICAL CLEARANCE (m)	----
UNIT PRICE (\$/m)	NEW STRUCTURE	45,000	ESTIMATED COST (\$) 5,625,000
	REHABILITATION	----	
COMMENTS (SPECIAL CONSTRUCTION & DESIGN FEATURES)	----		
NAME OF CONSULTANT (FOR PLANNING)	URS CANADA INC.	DATE	FEBRUARY 2007

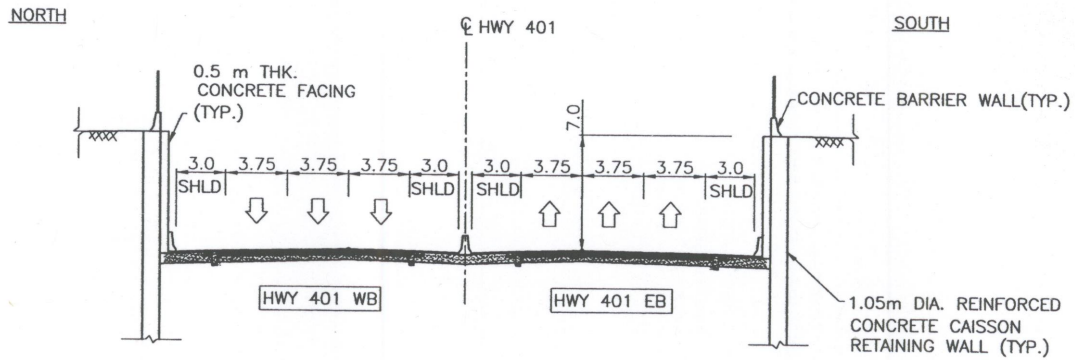
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STRUCTURAL PLANNING SHEET

W.O.NO.	----	CORRIDOR	HC-T	ROUTE	ALIGNMENT ALTERNATIVE 2A
STRUCTURE I.D.	2A-68	SITE NO.	----	LOCATION	HWY 401 AT JUST SOUTH OF HURON CHURCH ROAD
STRUCTURE NAME	BELOW GRADE HWY 401 AT NORTH OF RAMP N-S		<input type="checkbox"/> EXISTING <input checked="" type="checkbox"/> NEW		<input type="checkbox"/> OVERPASS <input type="checkbox"/> UNDERPASS <input checked="" type="checkbox"/> BELOW GRADE HWY <input type="checkbox"/> APPROACH RAMP
STRUCTURE DESCRIPTION	BOAT SECTION WITH CAISSON RETAINING WALLS OF UNIFORM HEIGHTS				



ELEVATION SKETCH
1:400



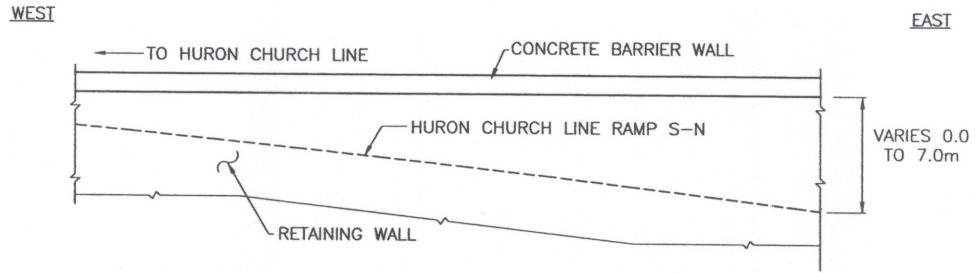
CROSS-SECTION SKETCH
1:400

LENGTH (m)	110	WIDTH (m)	----
STRUCTURAL DEPTH (m)	----	SPAN/DEPTH RATIO	----
SKEW ANGLE	----	VERTICAL CLEARANCE (m)	----
UNIT PRICE (\$/m)	NEW STRUCTURE	45,000	ESTIMATED COST (\$)
	REHABILITATION	----	
COMMENTS (SPECIAL CONSTRUCTION & DESIGN FEATURES)	----		
NAME OF CONSULTANT (FOR PLANNING)	URS CANADA INC.	DATE	FEBRUARY 2007

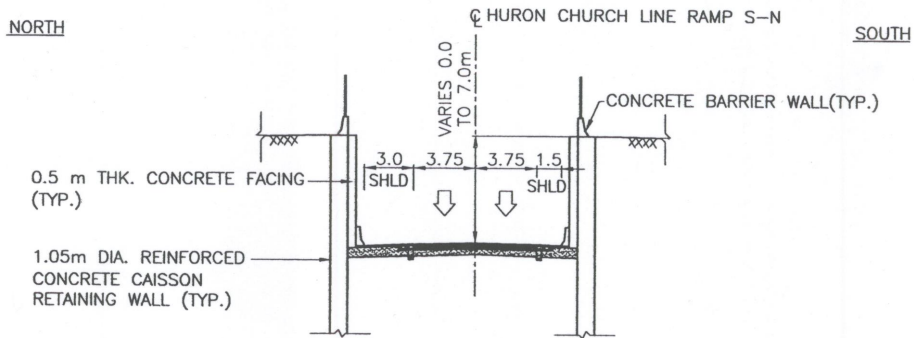
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STRUCTURAL PLANNING SHEET

W.O.NO.	----	CORRIDOR	HC-T	ROUTE	ALIGNMENT ALTERNATIVE 2A
STRUCTURE I.D.	2A-69	SITE NO.	----	LOCATION	HURON CHURCH RAMP TO HWY 401 AT SOUTH OF HURON CHURCH
STRUCTURE NAME	APPROACH RAMP S-N TO HWY 401 AT SOUTH OF HURON CHURCH LINE			<input type="checkbox"/> EXISTING <input checked="" type="checkbox"/> NEW	<input type="checkbox"/> OVERPASS <input type="checkbox"/> UNDERPASS
STRUCTURE DESCRIPTION	BOAT SECTION WITH CAISSON RETAINING WALLS OF VARIABLE HEIGHTS				
	<input type="checkbox"/> BELOW GRADE HWY <input checked="" type="checkbox"/> APPROACH RAMP				



ELEVATION SKETCH
1:400



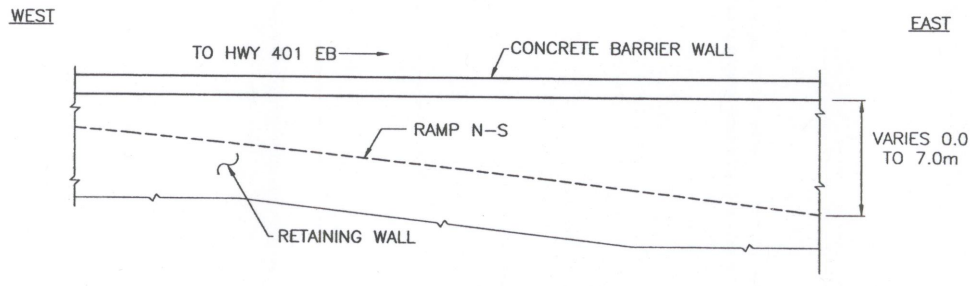
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LENGTH (m)	250		WIDTH (m)	----
STRUCTURAL DEPTH (m)	----		SPAN/DEPTH RATIO	----
SKEW ANGLE	----		VERTICAL CLEARANCE (m)	----
UNIT PRICE (\$/m)	NEW STRUCTURE	30,000	ESTIMATED COST (\$)	7,500,000
	REHABILITATION	----		
COMMENTS (SPECIAL CONSTRUCTION & DESIGN FEATURES)	----			
NAME OF CONSULTANT (FOR PLANNING)	URS CANADA INC.		DATE	FEBRUARY 2007

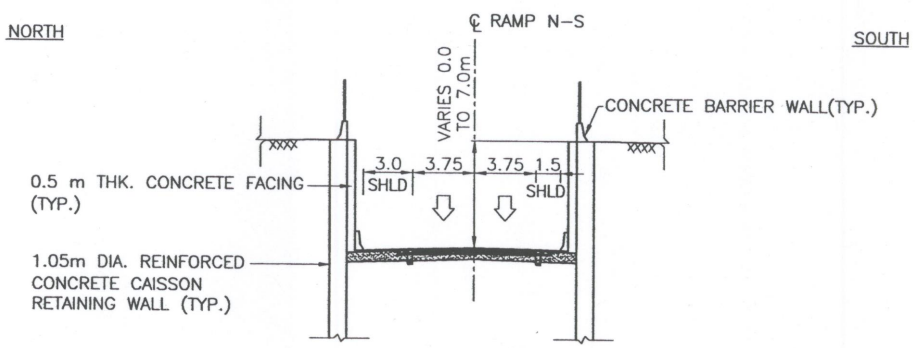
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STRUCTURAL PLANNING SHEET

W.O.NO.	----	CORRIDOR	HC-T	ROUTE	ALIGNMENT ALTERNATIVE 2A
STRUCTURE I.D.	2A-70	SITE NO.	----	LOCATION	HURON CHURCH RAMP TO HWY 401 AT SOUTH OF HURON CHURCH
STRUCTURE NAME	APPROACH RAMP N-S TO HWY 401 AT SOUTH OF HURON CHURCH LINE			<input type="checkbox"/> EXISTING <input checked="" type="checkbox"/> NEW	<input type="checkbox"/> OVERPASS <input type="checkbox"/> UNDERPASS
STRUCTURE DESCRIPTION	BOAT SECTION WITH CAISSON RETAINING WALLS OF VARIABLE HEIGHTS				



ELEVATION SKETCH
1:400



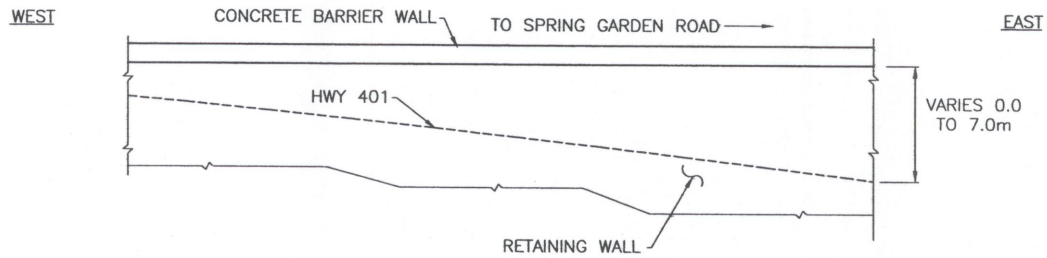
CROSS-SECTION SKETCH
1:400

LENGTH (m)	250		WIDTH (m)	----
STRUCTURAL DEPTH (m)	----		SPAN/DEPTH RATIO	----
SKEW ANGLE	----		VERTICAL CLEARANCE (m)	----
UNIT PRICE (\$/m)	NEW STRUCTURE	30,000	ESTIMATED COST (\$)	7,500,000
	REHABILITATION	----		
COMMENTS (SPECIAL CONSTRUCTION & DESIGN FEATURES)	----			
NAME OF CONSULTANT (FOR PLANNING)	URS CANADA INC.		DATE	FEBRUARY 2007

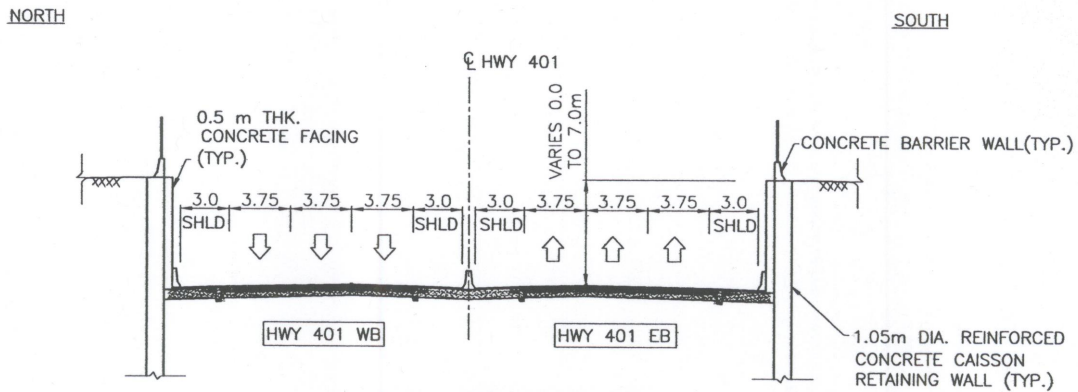
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STRUCTURAL PLANNING SHEET

W.O.NO.	----	CORRIDOR	HC-T	ROUTE	ALIGNMENT ALTERNATIVE 2A	
STRUCTURE I.D.	2A-71	SITE NO.	----	LOCATION	HWY 401 AT JUST SOUTH OF EC ROW PARKWAY	
STRUCTURE NAME	APPROACH RAMP OF HWY 401 AT JUST SOUTH OF EC ROW PARKWAY			<input type="checkbox"/> EXISTING <input checked="" type="checkbox"/> NEW	<input type="checkbox"/> OVERPASS <input type="checkbox"/> UNDERPASS	<input type="checkbox"/> BELOW GRADE HWY <input checked="" type="checkbox"/> APPROACH RAMP
STRUCTURE DESCRIPTION	BOAT SECTION WITH CAISSON RETAINING WALL OF VARIABLE HEIGHTS					



ELEVATION SKETCH
1:400



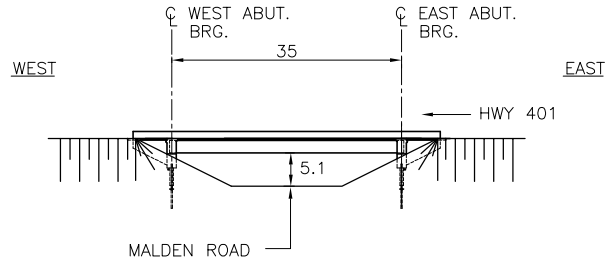
CROSS-SECTION SKETCH
1:400

LENGTH (m)	275		WIDTH (m)	----	
STRUCTURAL DEPTH (m)	----		SPAN/DEPTH RATIO	----	
SKEW ANGLE	----		VERTICAL CLEARANCE (m)	----	
UNIT PRICE (\$/m)	NEW STRUCTURE	30,000	ESTIMATED COST (\$)	8,250,000	
	REHABILITATION	----			
COMMENTS (SPECIAL CONSTRUCTION & DESIGN FEATURES)					
NAME OF CONSULTANT (FOR PLANNING)	URS CANADA INC.		DATE	FEBRUARY 2007	

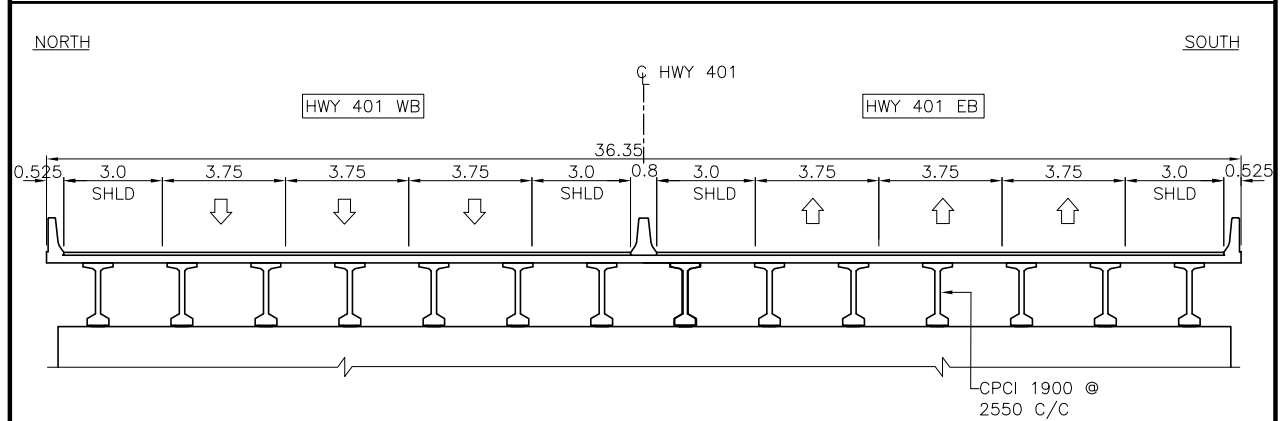
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 PLOTDATE: Aug 06, 2007 12:00pm

STRUCTURAL PLANNING SHEET

W.O.NO.	----	CORRIDOR	HC-T	ROUTE	ALIGNMENT ALTERNATIVE 2A
STRUCTURE I.D.	2A-90	SITE NO.	----	LOCATION	HWY 401 ABOVE MALDEN ROAD
BRIDGE NAME	MALDEN ROAD OVERPASS			<input type="checkbox"/> EXISTING <input checked="" type="checkbox"/> NEW	<input checked="" type="checkbox"/> OVERPASS <input type="checkbox"/> BELOW GRADE HWY <input type="checkbox"/> UNDERPASS <input type="checkbox"/> APPROACH RAMP
STRUCTURE DESCRIPTION	SINGLE SPAN CPCI 1900 GIRDERS WITH INTEGRAL ABUTMENTS				



ELEVATION SKETCH
1:1000



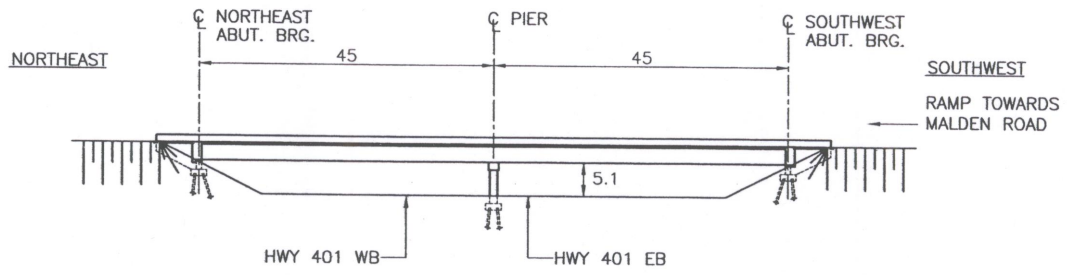
CROSS-SECTION SKETCH
1:200

LENGTH (m)	35	WIDTH (m)	36.35
STRUCTURAL DEPTH (m)	2.2	SPAN/DEPTH RATIO	16
SKEW ANGLE	10°	VERTICAL CLEARANCE (m)	5.1
UNIT PRICE (\$/m ²)	NEW STRUCTURE	2,000	ESTIMATED COST (\$)
	REHABILITATION	----	
COMMENTS (SPECIAL CONSTRUCTION & DESIGN FEATURES)	HWY 401 CROSSES OVER MALDEN ROAD ON SKEW. HOWEVER THE RECTANGULAR BRIDGE DECK IS CONSIDERED.		
NAME OF CONSULTANT (FOR PLANNING)	URS CANADA INC.	DATE	MAY 2007

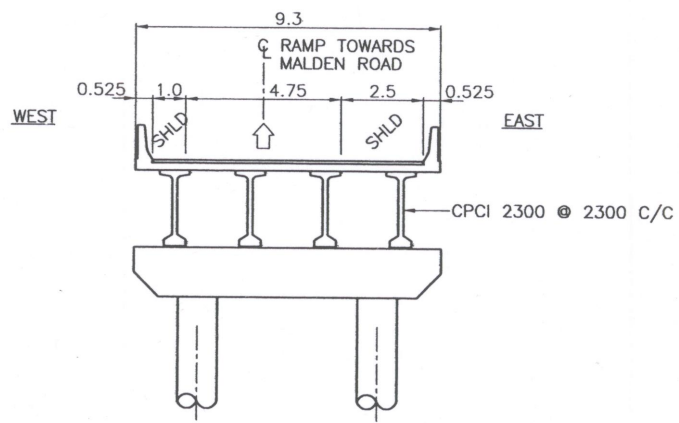
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STRUCTURAL PLANNING SHEET

W.O.NO.	----	CORRIDOR	HC-T	ROUTE	ALIGNMENT ALTERNATIVE 2A
STRUCTURE I.D.	2A-91	SITE NO.	----	LOCATION	RAMP TOWARDS MALDEN ROAD ABOVE HWY 401
BRIDGE NAME	RAMP W-E UNDERPASS			<input type="checkbox"/> EXISTING	<input type="checkbox"/> OVERPASS <input type="checkbox"/> BELOW GRADE HWY
STRUCTURE DESCRIPTION	TWO SPANS CPCI 2300 GIRDERS WITH SEMI-INTEGRAL ABUTMENTS			<input checked="" type="checkbox"/> NEW	<input checked="" type="checkbox"/> UNDERPASS <input type="checkbox"/> APPROACH RAMP



ELEVATION SKETCH
1:1000



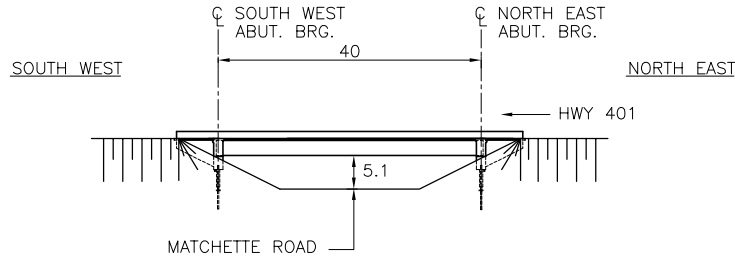
CROSS-SECTION SKETCH
1:200

LENGTH (m)	90	WIDTH (m)	9.30	
STRUCTURAL DEPTH (m)	2.6	SPAN/DEPTH RATIO	17	
SKEW ANGLE	55°	VERTICAL CLEARANCE (m)	5.1	
UNIT PRICE (\$/m ²)	NEW STRUCTURE	2,100	ESTIMATED COST (\$)	1,758,000
	REHABILITATION	----		
COMMENTS (SPECIAL CONSTRUCTION & DESIGN FEATURES)	SEMI-INTEGRAL ABUTMENTS DUE TO 55° SKEW			
NAME OF CONSULTANT (FOR PLANNING)	URS CANADA INC.	DATE	FEBRUARY 2007	

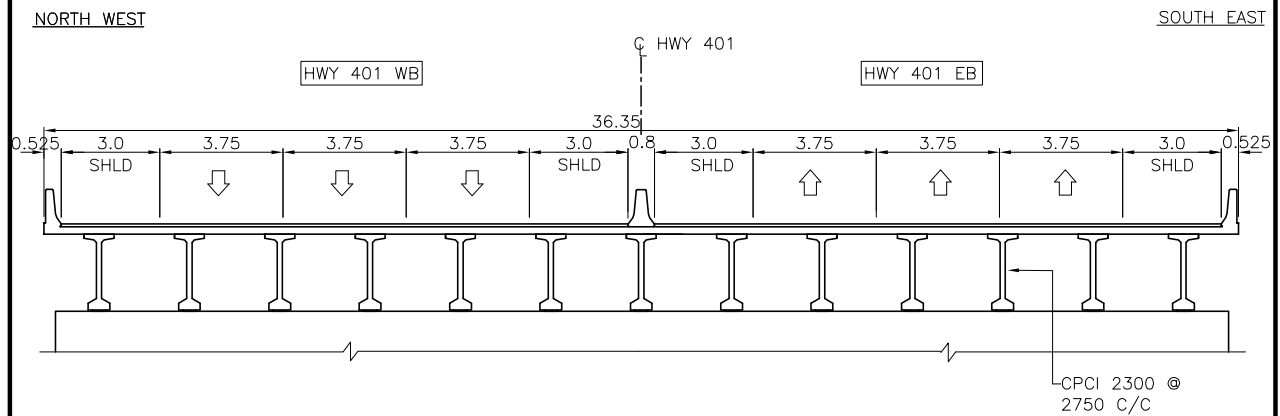
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STRUCTURAL PLANNING SHEET

W.O.NO.	----	CORRIDOR	HC-T	ROUTE	ALIGNMENT ALTERNATIVE 2A
STRUCTURE I.D.	2A-92	SITE NO.	----	LOCATION	MATCHETTE ROAD OVER HWY 401
BRIDGE NAME	MATCHETTE ROAD OVERPASS			<input type="checkbox"/> EXISTING <input checked="" type="checkbox"/> NEW	<input checked="" type="checkbox"/> OVERPASS <input type="checkbox"/> UNDERPASS <input type="checkbox"/> BELOW GRADE HWY <input type="checkbox"/> APPROACH RAMP
STRUCTURE DESCRIPTION	SINGLE SPAN CPCI 2300 GIRDERS WITH INTEGRAL ABUTMENTS				



ELEVATION SKETCH
1:1000



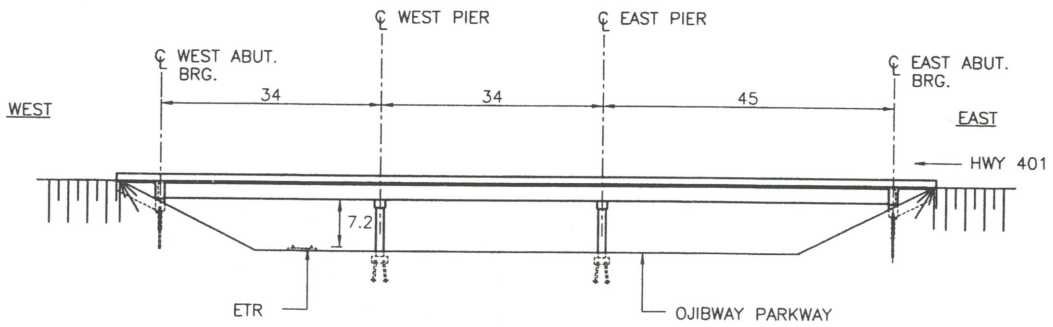
CROSS-SECTION SKETCH
1:200

LENGTH (m)	40	WIDTH (m)	36.35
STRUCTURAL DEPTH (m)	2.6	SPAN/DEPTH RATIO	16
SKREW ANGLE	25°	VERTICAL CLEARANCE (m)	5.1
UNIT PRICE (\$/m ²)	NEW STRUCTURE	2,000	ESTIMATED COST (\$)
	REHABILITATION	----	
COMMENTS (SPECIAL CONSTRUCTION & DESIGN FEATURES)	HWY 401 CROSSES ABOVE MATCHETTE ROAD ON SKEW, HOWEVER RECTANGULAR BRIDGE DECK IS CONSIDERED.		
NAME OF CONSULTANT (FOR PLANNING)	URS CANADA INC.	DATE	MAY 2007

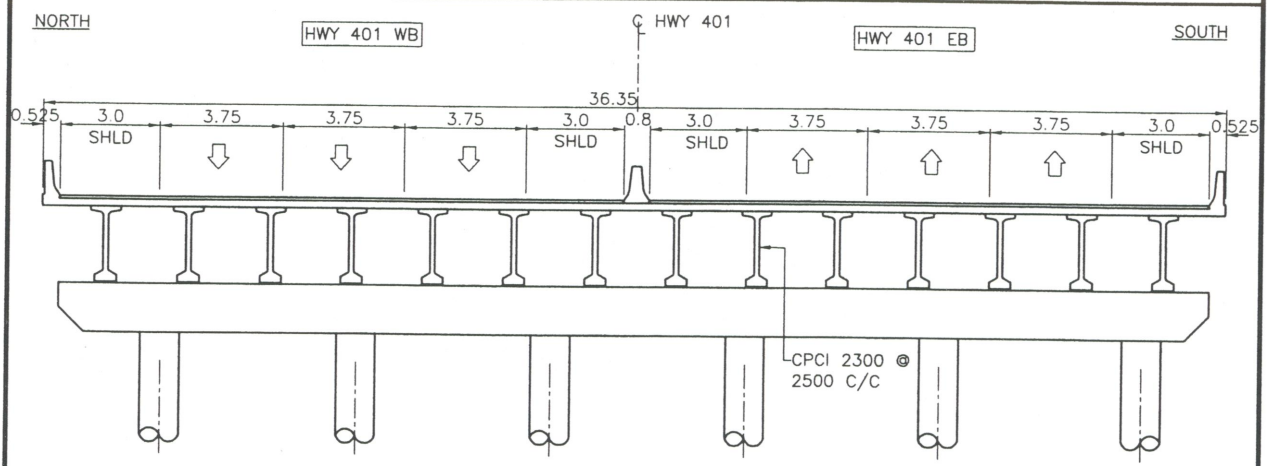
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STRUCTURAL PLANNING SHEET

W.O.NO.	----	CORRIDOR	HC-T	ROUTE	ALIGNMENT ALTERNATIVE 2A
STRUCTURE I.D.	2A-93	SITE NO.	----	LOCATION	HWY 401 OVER OJIBWAY PKWY & ETR TRACK
BRIDGE NAME	OJIBWAY / ETR OVERPASS			<input type="checkbox"/> EXISTING <input checked="" type="checkbox"/> NEW	<input checked="" type="checkbox"/> OVERPASS <input type="checkbox"/> BELOW GRADE HWY <input type="checkbox"/> UNDERPASS <input type="checkbox"/> APPROACH RAMP
STRUCTURE DESCRIPTION	THREE SPANS CPCI 2300 GIRDERS WITH INTEGRAL ABUTMENTS				



ELEVATION SKETCH
1:1000



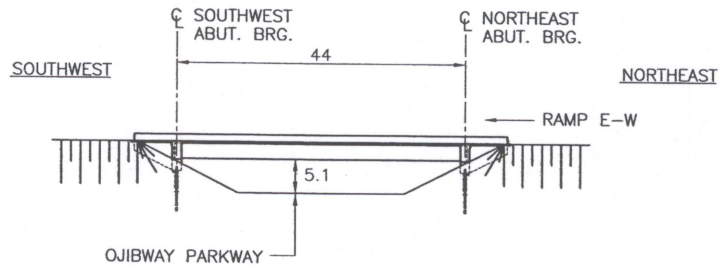
CROSS-SECTION SKETCH
1:200

LENGTH (m)	113	WIDTH (m)	36.35
STRUCTURAL DEPTH (m)	2.6	SPAN/DEPTH RATIO	17
SKEW ANGLE	20° (OJIBWAY PKWY) 0° (ETR)	VERTICAL CLEARANCE (m)	7.1
UNIT PRICE (\$/m ²)	NEW STRUCTURE	2,500	ESTIMATED COST (\$)
	REHABILITATION	----	
COMMENTS (SPECIAL CONSTRUCTION & DESIGN FEATURES)	HWY 401 CROSSING ABOVE OJIBWAY PARKWY NEAR NEW INTERCHANGE AT EC ROW PARKWY AND ESSEX TERMINAL RAILWAY (ETR) TRACK.		
NAME OF CONSULTANT (FOR PLANNING)	URS CANADA INC.	DATE	MAY 2007

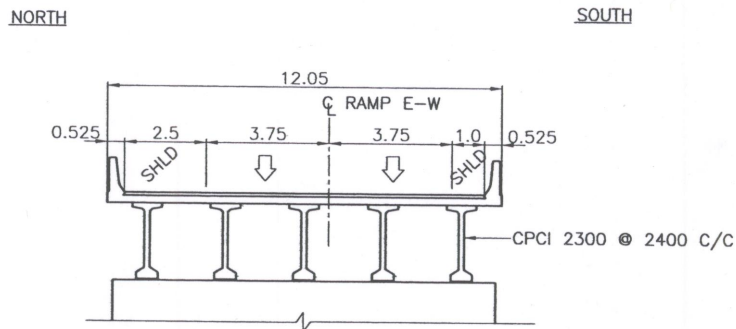
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STRUCTURAL PLANNING SHEET

W.O.NO.	----	CORRIDOR	HC-T	ROUTE	ALIGNMENT ALTERNATIVE 2A
STRUCTURE I.D.	2A-94	SITE NO.	----	LOCATION	RAMP E-W ABOVE OJIBWAY PKWY
BRIDGE NAME	RAMP E-W AT OJIBWAY PARKWAY OVERPASS			<input type="checkbox"/> EXISTING <input checked="" type="checkbox"/> NEW	<input checked="" type="checkbox"/> OVERPASS <input type="checkbox"/> BELOW GRADE HWY <input type="checkbox"/> UNDERPASS <input type="checkbox"/> APPROACH RAMP
STRUCTURE DESCRIPTION	SINGLE SPAN CPCI 2300 GIRDERS WITH INTEGRAL ABUTMENTS				



ELEVATION SKETCH
1:1000



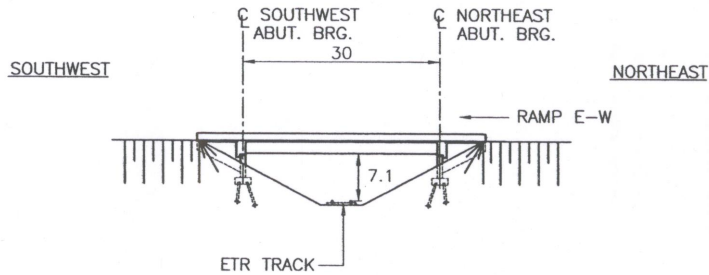
CROSS-SECTION SKETCH
1:200

LENGTH (m)	44	WIDTH (m)	12.05
STRUCTURAL DEPTH (m)	2.6	SPAN/DEPTH RATIO	17
SKEW ANGLE	20°	VERTICAL CLEARANCE (m)	5.1
UNIT PRICE (\$/m ²)	NEW STRUCTURE	2,000	ESTIMATED COST (\$) 1,060,000
	REHABILITATION	----	
COMMENTS (SPECIAL CONSTRUCTION & DESIGN FEATURES)	E-W RAMP CROSSES ABOVE OJIBWAY PARKWAY ON SKEW. HOWEVER RECTANGULAR BRIDGE DECK IS CONSIDERED.		
NAME OF CONSULTANT (FOR PLANNING)	URS CANADA INC.	DATE	FEBRUARY 2007

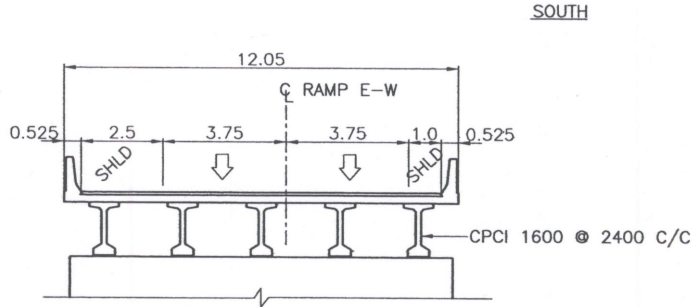
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 PLOTDATE: Aug 06, 2007 - 12:00pm

STRUCTURAL PLANNING SHEET

W.O.NO.	----	CORRIDOR	HC-T	ROUTE	ALIGNMENT ALTERNATIVE 2A
STRUCTURE I.D.	2A-95	SITE NO.	----	LOCATION	RAMP E-W OVER ETR TRACK
BRIDGE NAME	RAMP E-W AT ETR OVERPASS			<input type="checkbox"/> EXISTING <input checked="" type="checkbox"/> NEW	<input checked="" type="checkbox"/> OVERPASS <input type="checkbox"/> UNDERPASS
STRUCTURE DESCRIPTION	SINGLE SPAN CPCI 1600 GIRDERS WITH SEMI-INTEGRAL ABUTMENTS				



ELEVATION SKETCH
1:1000



CROSS-SECTION SKETCH
1:200

LENGTH (m)	30	WIDTH (m)	12.05	
STRUCTURAL DEPTH (m)	1.9	SPAN/DEPTH RATIO	17	
SKEW ANGLE	30°	VERTICAL CLEARANCE (m)	7.1	
UNIT PRICE (\$/m ²)	NEW STRUCTURE	2,500	ESTIMATED COST (\$)	904,000
	REHABILITATION	----		
COMMENTS (SPECIAL CONSTRUCTION & DESIGN FEATURES)	E-W RAMP CROSSES ABOVE ESSEX TERMINAL RAILWAY (ETR) TRACK ON SKEW. HOWEVER RECTANGULAR BRIDGE DECK IS CONSIDER.			
NAME OF CONSULTANT (FOR PLANNING)	URS CANADA INC.	DATE	FEBRUARY 2007	

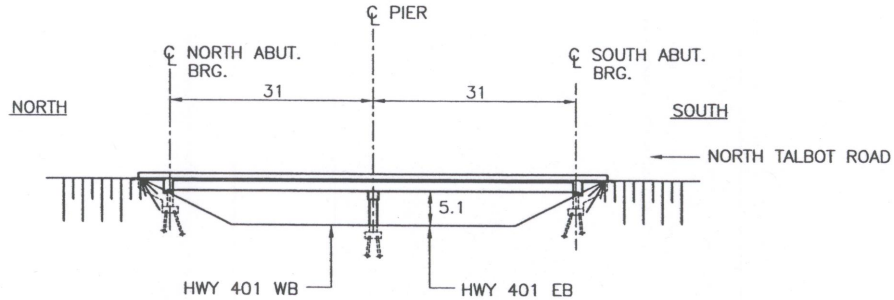
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Appendix C.4

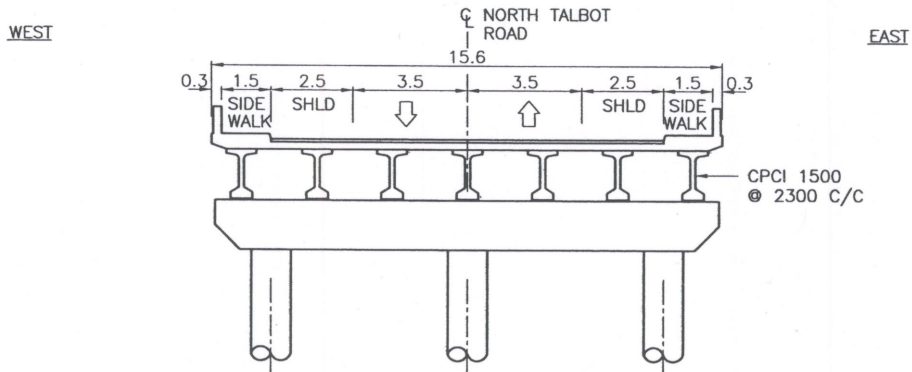
Structural Planning Sheets for Alternative 2B

STRUCTURAL PLANNING SHEET

W.O.NO.	----	CORRIDOR	HC-T	ROUTE	ALIGNMENT ALTERNATIVE 2B
STRUCTURE I.D.	2B-5	SITE NO.	----	LOCATION	NORTH TALBOT ROAD ABOVE HWY 401
BRIDGE NAME	NORTH TALBOT ROAD UNDERPASS			<input type="checkbox"/> EXISTING <input checked="" type="checkbox"/> NEW	<input type="checkbox"/> OVERPASS <input checked="" type="checkbox"/> UNDERPASS
STRUCTURE DESCRIPTION	TWO SPANS CPCI 1500 GIRDERS WITH SEMI-INTEGRAL ABUTMENTS				



ELEVATION SKETCH
1:1000



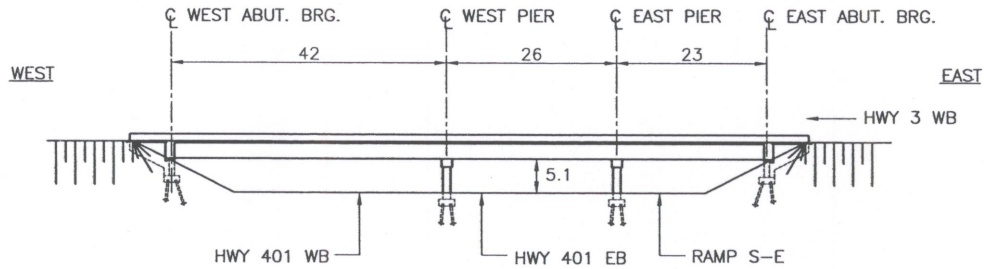
CROSS-SECTION SKETCH
1:200

LENGTH (m)	62	WIDTH (m)	15.60	
STRUCTURAL DEPTH (m)	1.8	SPAN/DEPTH RATIO	17	
SKEW ANGLE	30°	VERTICAL CLEARANCE (m)	5.1	
UNIT PRICE (\$/m ²)	NEW STRUCTURE	2,100	ESTIMATED COST (\$)	2,031,000
	REHABILITATION	----		
COMMENTS (SPECIAL CONSTRUCTION & DESIGN FEATURES)	<ul style="list-style-type: none"> - SEMI-INTEGRAL ABUTMENTS DUE TO 30° SKEW - EXISTING BRIDGE NEEDS TO BE REMOVED. - NORTH TALBOT ROAD NEEDS TO BE DIVERTED DURING THE CONSTRUCTION OR AFTER THE CONSTRUCTION OF THE NEW BRIDGE ON ADJACENT SITE. 			
NAME OF CONSULTANT (FOR PLANNING)	URS CANADA INC.	DATE	MAY 2007	

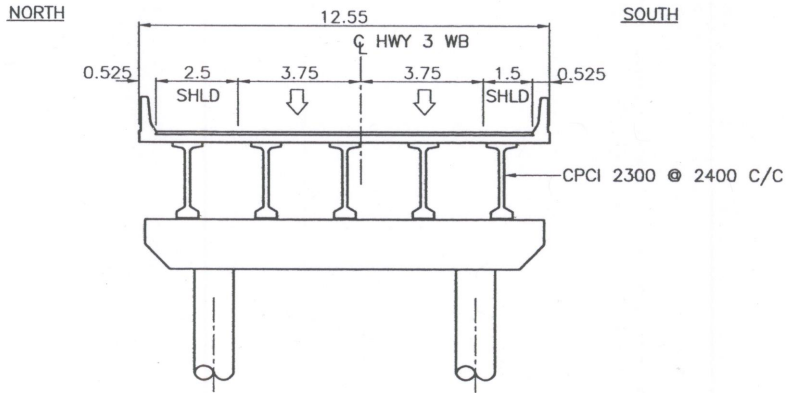
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STRUCTURAL PLANNING SHEET

W.O.NO.	----	CORRIDOR	HC-T	ROUTE	ALIGNMENT ALTERNATIVE 2B
STRUCTURE I.D.	2B-10	SITE NO.	----	LOCATION	HWY 3 OVER HWY 401
BRIDGE NAME	HIGHWAY 3 WB UNDERPASS			<input type="checkbox"/> EXISTING <input checked="" type="checkbox"/> NEW	<input type="checkbox"/> OVERPASS <input checked="" type="checkbox"/> UNDERPASS
STRUCTURE DESCRIPTION	THREE SPANS CPCI 2300 GIRDERS WITH SEMI-INTEGRAL ABUTMENTS				



ELEVATION SKETCH
1:1000



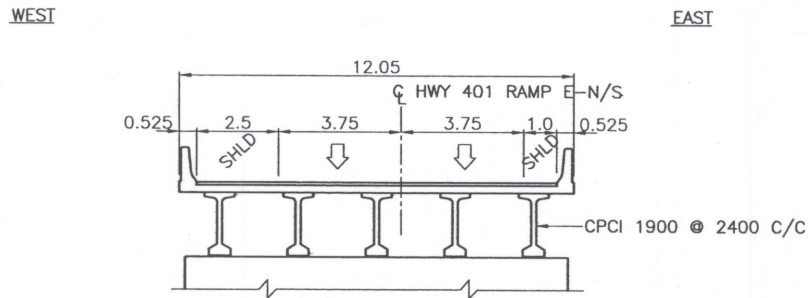
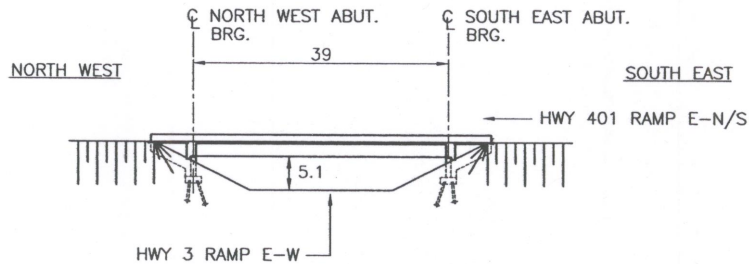
CROSS-SECTION SKETCH
1:200

LENGTH (m)	91	WIDTH (m)	12.55
STRUCTURAL DEPTH (m)	2.6	SPAN/DEPTH RATIO	16
SKIEW ANGLE	40°	VERTICAL CLEARANCE (m)	5.1
UNIT PRICE (\$/m ²)	NEW STRUCTURE	2,100	ESTIMATED COST (\$)
	REHABILITATION	----	
COMMENTS (SPECIAL CONSTRUCTION & DESIGN FEATURES)	SEMI-INTEGRAL ABUTMENTS DUE TO 40° SKEW.		
NAME OF CONSULTANT (FOR PLANNING)	URS CANADA INC.	DATE	MAY 2007

FILENAME: C:\BRIDGE\16_Structure\CADD\Planning Sheets\ Hwy Alternatives\2007\ Bridge-Alt-07-July 18-2007\REVISIONS.dwg
 PLOTDATE: Aug 06, 2007 12:01 pm

STRUCTURAL PLANNING SHEET

W.O.NO.	----	CORRIDOR	HC-T	ROUTE	ALIGNMENT ALTERNATIVE 2B
STRUCTURE I.D.	2B-12	SITE NO.	----	LOCATION	HWY 401 RAMP E-N/S OVER RAMP E-W
BRIDGE NAME	HWY 401 RAMP E-N/S OVERPASS			<input type="checkbox"/> EXISTING <input checked="" type="checkbox"/> NEW	<input type="checkbox"/> OVERPASS <input type="checkbox"/> BELOW GRADE HWY <input checked="" type="checkbox"/> UNDERPASS <input type="checkbox"/> APPROACH RAMP
STRUCTURE DESCRIPTION	SINGLE SPAN CPCI 1900 GIRDERS WITH SEMI-INTEGRAL ABUTMENTS				

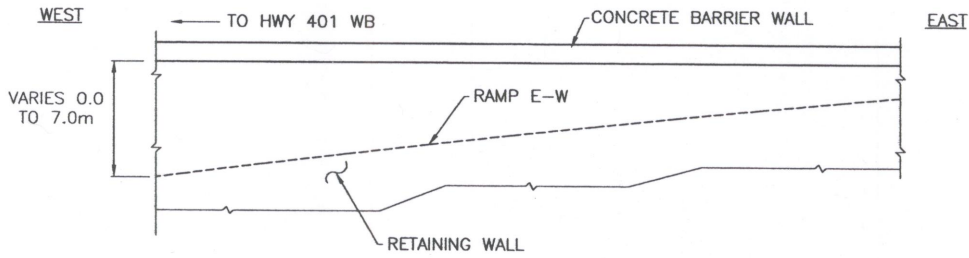


LENGTH (m)	39	WIDTH (m)	12.05
STRUCTURAL DEPTH (m)	2.2	SPAN/DEPTH RATIO	18
SKEW ANGLE	50°	VERTICAL CLEARANCE (m)	5.1
UNIT PRICE (\$/m ²)	NEW STRUCTURE	2,100	ESTIMATED COST (\$) 987,000
	REHABILITATION	----	
COMMENTS (SPECIAL CONSTRUCTION & DESIGN FEATURES)	SEMI-INTEGRAL ABUTMENTS DUE TO 50° SKEW		
NAME OF CONSULTANT (FOR PLANNING)	URS CANADA INC.	DATE	MAY 2007

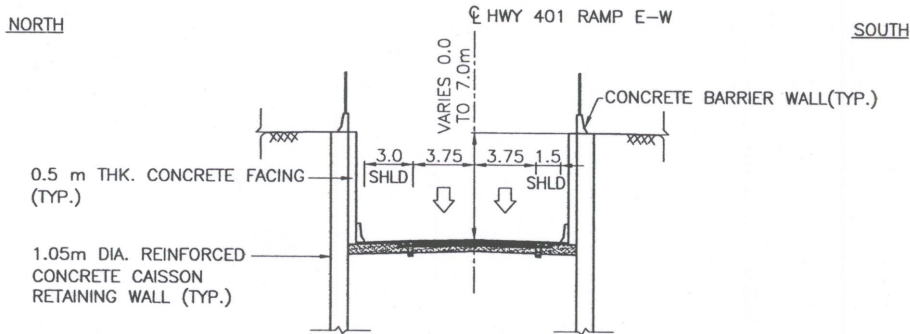
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STRUCTURAL PLANNING SHEET

W.O.NO.	----	CORRIDOR	HC-T	ROUTE	ALIGNMENT ALTERNATIVE 2B
STRUCTURE I.D.	2B-13	SITE NO.	----	LOCATION	HWY 401 AT EAST OF HOWARD AVENUE
STRUCTURE NAME	APPROACH RAMP E-W OF HWY 401 AT EAST OF HOWARD AVENUE		<input type="checkbox"/> EXISTING <input checked="" type="checkbox"/> NEW	<input type="checkbox"/> OVERPASS <input type="checkbox"/> UNDERPASS	<input type="checkbox"/> BELOW GRADE HWY <input checked="" type="checkbox"/> APPROACH RAMP
STRUCTURE DESCRIPTION	BOAT SECTION WITH CAISSON RETAINING WALLS OF VARIABLE HEIGHTS				



ELEVATION SKETCH
1:400



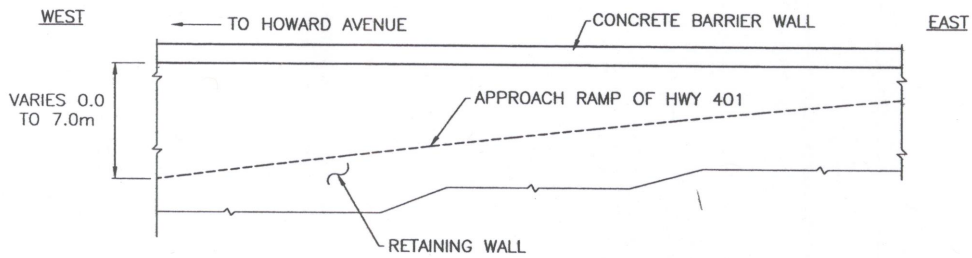
CROSS-SECTION SKETCH
1:400

LENGTH (m)	550	WIDTH (m)	----
STRUCTURAL DEPTH (m)	----	SPAN/DEPTH RATIO	----
SKEW ANGLE	----	VERTICAL CLEARANCE (m)	----
UNIT PRICE (\$/m)	NEW STRUCTURE	30,000	ESTIMATED COST (\$) 16,500,000
	REHABILITATION	----	
COMMENTS (SPECIAL CONSTRUCTION & DESIGN FEATURES)	----		
NAME OF CONSULTANT (FOR PLANNING)	URS CANADA INC.	DATE	MAY 2007

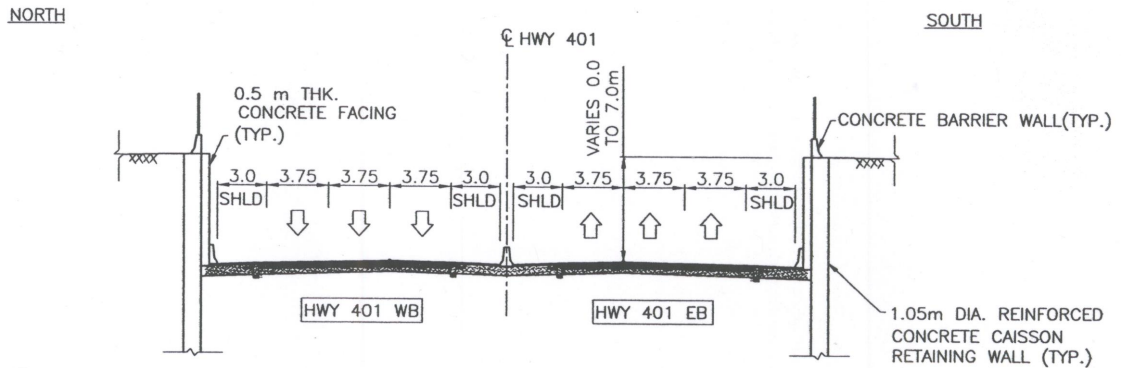
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STRUCTURAL PLANNING SHEET

W.O.NO.	----	CORRIDOR	HC-T	ROUTE	ALIGNMENT ALTERNATIVE 2B
STRUCTURE I.D.	2B-14	SITE NO.	----	LOCATION	HWY 401 RAMP AT EAST OF HOWARD AVENUE
STRUCTURE NAME	APPROACH RAMP OF HWY 401 AT EAST OF HOWARD AVENUE		<input type="checkbox"/> EXISTING <input checked="" type="checkbox"/> NEW		<input type="checkbox"/> OVERPASS <input type="checkbox"/> UNDERPASS <input type="checkbox"/> BELOW GRADE HWY <input checked="" type="checkbox"/> APPROACH RAMP
STRUCTURE DESCRIPTION	BOAT SECTION WITH CAISSON RETAINING WALLS OF VARIABLE HEIGHTS				



ELEVATION SKETCH
1:400



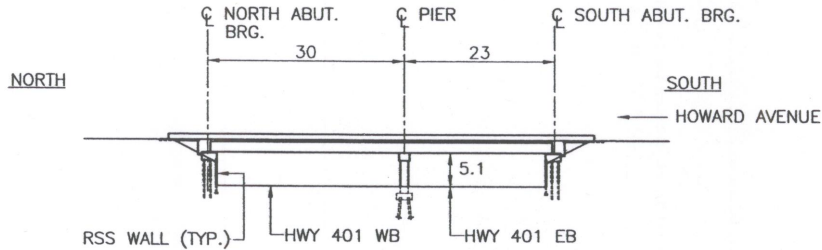
CROSS-SECTION SKETCH
1:400

LENGTH (m)	500		WIDTH (m)	----	
STRUCTURAL DEPTH (m)	----		SPAN/DEPTH RATIO	----	
SKEW ANGLE	----		VERTICAL CLEARANCE (m)	----	
UNIT PRICE (\$/m)	NEW STRUCTURE	30,000	ESTIMATED COST (\$)	15,000,000	
	REHABILITATION	----			
COMMENTS (SPECIAL CONSTRUCTION & DESIGN FEATURES)	-				
NAME OF CONSULTANT (FOR PLANNING)	URS CANADA INC.		DATE	MAY 2007	

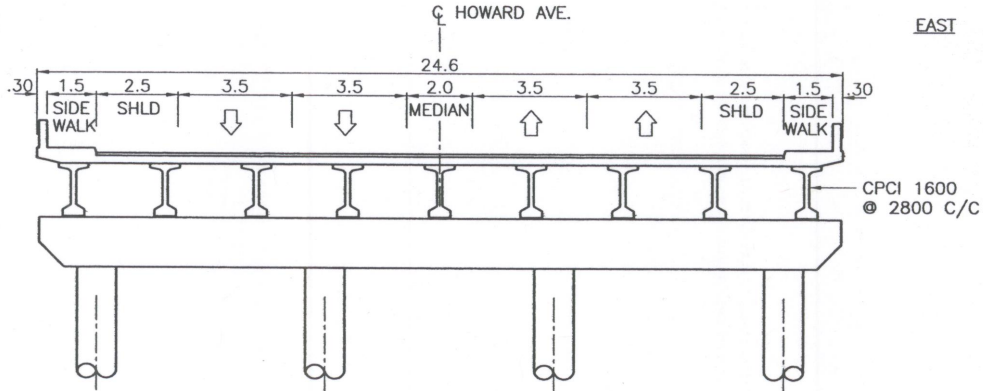
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STRUCTURAL PLANNING SHEET

W.O.NO.	----	CORRIDOR	HC-T	ROUTE	ALIGNMENT ALTERNATIVE 2B
STRUCTURE I.D.	2B-22	SITE NO.	----	LOCATION	HOWARD AVENUE OVER HWY 401
BRIDGE NAME	HOWARD AVENUE UNDERPASS			<input type="checkbox"/> EXISTING <input checked="" type="checkbox"/> NEW	<input type="checkbox"/> OVERPASS <input checked="" type="checkbox"/> UNDERPASS <input type="checkbox"/> BELOW GRADE HWY <input type="checkbox"/> APPROACH RAMP
STRUCTURE DESCRIPTION	TWO SPANS CPCI 1600 GIRDERS ON SEMI-INTEGRAL ABUTMENTS WITH RSS WALLS.				



ELEVATION SKETCH
1:1000



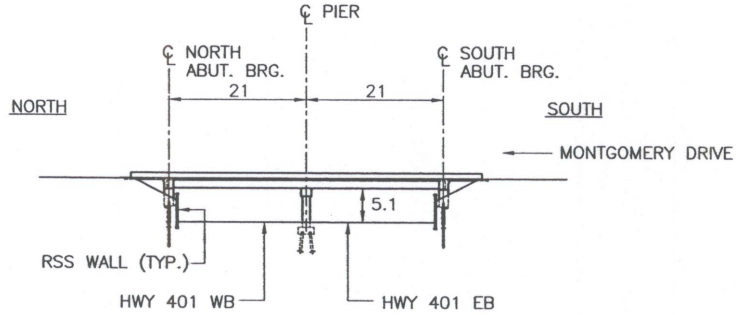
CROSS-SECTION SKETCH
1:200

LENGTH (m)	53	WIDTH (m)	24.60	
STRUCTURAL DEPTH (m)	1.9	SPAN/DEPTH RATIO	16	
SKEW ANGLE	30°	VERTICAL CLEARANCE (m)	5.1	
UNIT PRICE (\$/m ²)	NEW STRUCTURE	2,200	ESTIMATED COST (\$)	2,868,000
	REHABILITATION	----		
COMMENTS (SPECIAL CONSTRUCTION & DESIGN FEATURES)	- OUTER SURFACE OF RSS WALL OF ABUTMENTS TO MATCH THE RW OF DEPRESSED HWY 401 ON EITHER SIDE OF THE BRIDGE CROSSING. - SEMI-INTEGRAL ABUTMENTS DUE TO 30° SKEW.			
NAME OF CONSULTANT (FOR PLANNING)	URS CANADA INC.	DATE	MAY 2007	

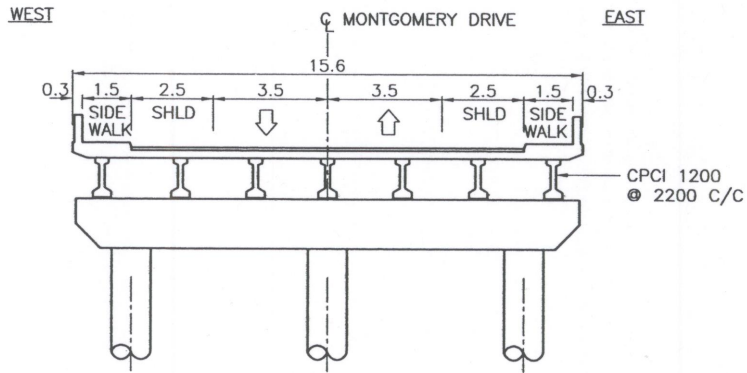
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 PLOTDATE: Aug 06, 2007 - 12:02pm

STRUCTURAL PLANNING SHEET

W.O.NO.	----	CORRIDOR	HC-T	ROUTE	ALIGNMENT ALTERNATIVE 2B
STRUCTURE I.D.	2B-23	SITE NO.	----	LOCATION	MONTGOMERY DRIVE ABOVE HWY 401
BRIDGE NAME	MONTGOMERY DRIVE UNDERPASS			<input type="checkbox"/> EXISTING <input checked="" type="checkbox"/> NEW	<input type="checkbox"/> OVERPASS <input checked="" type="checkbox"/> UNDERPASS
STRUCTURE DESCRIPTION	TWO SPANS CPCI 1200 GIRDERS ON INTEGRAL ABUTMENTS WITH RSS WALLS				



ELEVATION SKETCH
1:1000



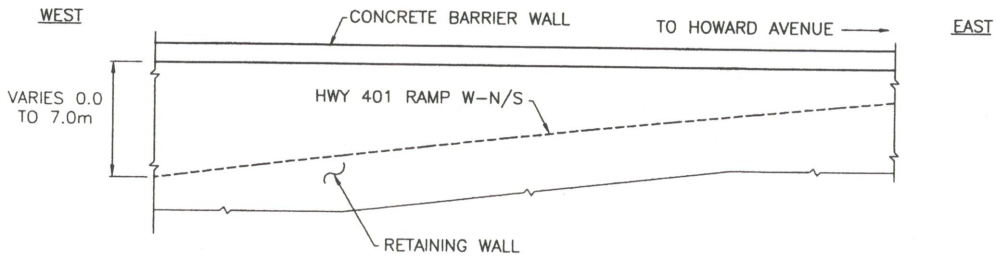
CROSS-SECTION SKETCH
1:200

LENGTH (m)	42	WIDTH (m)	15.60
STRUCTURAL DEPTH (m)	1.5	SPAN/DEPTH RATIO	14
SKEW ANGLE	NO	VERTICAL CLEARANCE (m)	5.1
UNIT PRICE (\$/m)	NEW STRUCTURE	2,100	ESTIMATED COST (\$) 1,376,000
	REHABILITATION	----	
COMMENTS (SPECIAL CONSTRUCTION & DESIGN FEATURES)	- OUTER SURFACE OF RSS WALL OF ABUTMENTS TO MATCH THE RW OF DEPRESSED HWY 401 ON EITHER SIDE OF THE BRIDGE CROSSING.		
NAME OF CONSULTANT (FOR PLANNING)	URS CANADA INC.	DATE	MAY 2007

FILENAME: C:\ORIC\16_Structural\CADD\Planning Sheets\ Hwy Alternatives\2007\ Bridge-Alt-07-July 18-2007\REVISIONS.dwg
 PLOT DATE: Aug 06, 2007 - 12:02pm

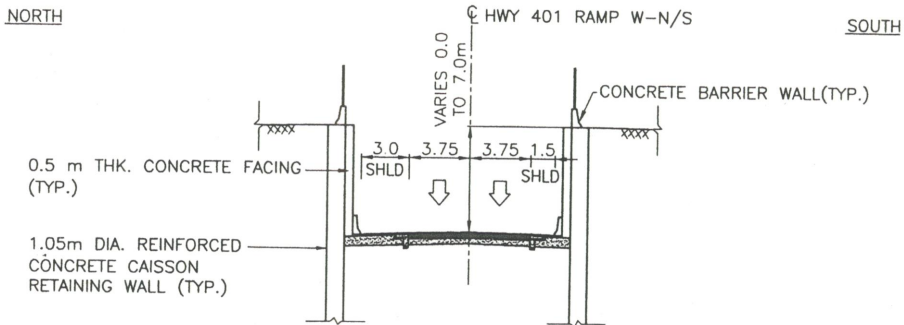
STRUCTURAL PLANNING SHEET

W.O.NO.	----	CORRIDOR	HC-T	ROUTE	ALIGNMENT ALTERNATIVE 2B
STRUCTURE I.D.	2B-24	SITE NO.	----	LOCATION	SIDE ROAD RAMP ON WEST OF HOWARD AVENUE
BRIDGE TYPE	RAMP W-N/S ON WEST OF HOWARD AVENUE		<input type="checkbox"/> EXISTING <input checked="" type="checkbox"/> NEW		<input type="checkbox"/> OVERPASS <input type="checkbox"/> UNDERPASS <input type="checkbox"/> BELOW GRADE HWY <input checked="" type="checkbox"/> APPROACH RAMP
STRUCTURE DESCRIPTION	BOAT SECTION WITH CAISSON RETAINING WALLS OF VARIABLE HEIGHTS				



ELEVATION SKETCH

1:400



CROSS-SECTION SKETCH

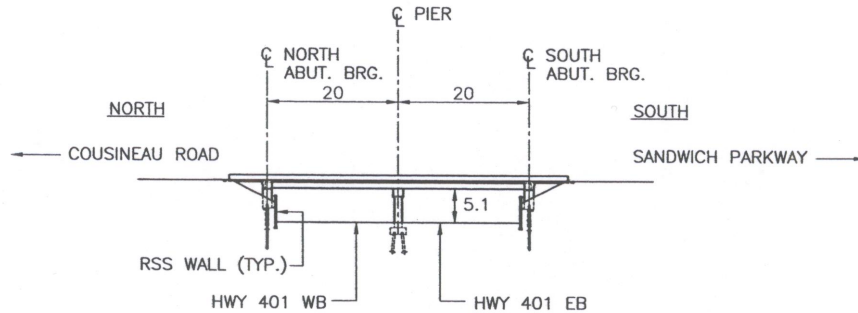
1:400

LENGTH (m)	400	WIDTH (m)	----
STRUCTURAL DEPTH (m)	----	SPAN/DEPTH RATIO	----
SKEW ANGLE	----	VERTICAL CLEARANCE (m)	----
UNIT PRICE (\$/m)	NEW STRUCTURE	30,000	ESTIMATED COST (\$) 12,000,000
	REHABILITATION	----	
COMMENTS (SPECIAL CONSTRUCTION & DESIGN FEATURES)	----		
NAME OF CONSULTANT (FOR PLANNING)	URS CANADA INC.	DATE	FEBRUARY 2007

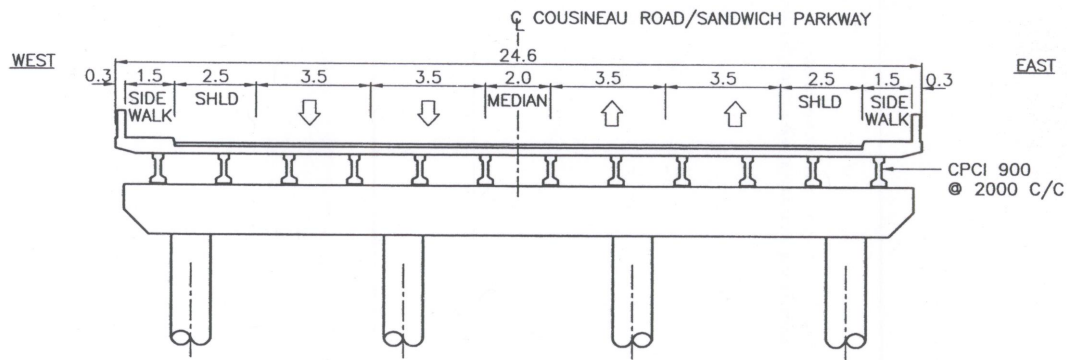
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 PLOTDATE: Nov 02, 2007 - 11:32am

STRUCTURAL PLANNING SHEET

W.O.NO.	----	CORRIDOR	HC-T	ROUTE	ALIGNMENT ALTERNATIVE 2B
STRUCTURE I.D.	2B-32	SITE NO.	----	LOCATION	COUSINEAU ROAD/SANDWICH PARKWAY OVER HWY 401
BRIDGE NAME	COUSINEAU ROAD/SANDWICH PARKWAY UNDERPASS			<input type="checkbox"/> EXISTING <input checked="" type="checkbox"/> NEW	<input type="checkbox"/> OVERPASS <input type="checkbox"/> BELOW GRADE HWY <input checked="" type="checkbox"/> UNDERPASS <input type="checkbox"/> APPROACH RAMP
STRUCTURE DESCRIPTION	TWO SPANS CPCI 900 GIRDERS ON INTEGRAL ABUTMENTS WITH RSS WALLS				



ELEVATION SKETCH
1:1000



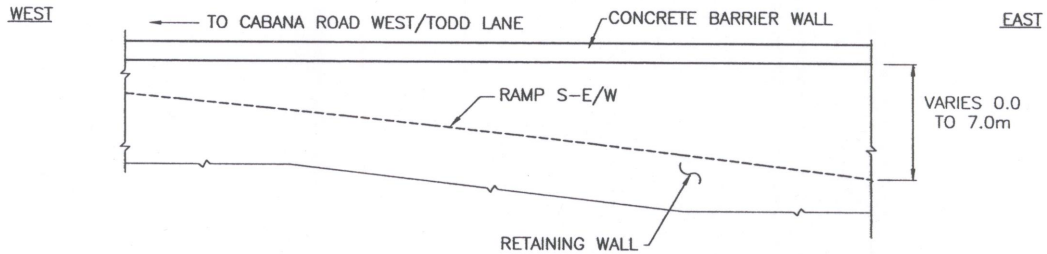
CROSS-SECTION SKETCH
1:200

LENGTH (m)	40	WIDTH (m)	24.60
STRUCTURAL DEPTH (m)	1.2	SPAN/DEPTH RATIO	17
SKIEW ANGLE	NO	VERTICAL CLEARANCE (m)	5.1
UNIT PRICE (\$/m ²)	NEW STRUCTURE	2,100	ESTIMATED COST (\$) 2,066,000
	REHABILITATION	----	
COMMENTS (SPECIAL CONSTRUCTION & DESIGN FEATURES)	- OUTER SURFACE OF RSS WALL OF ABUTMENTS TO MATCH THE RW OF DEPRESSED HWY 401 ON EITHER SIDE OF THE BRIDGE CROSSING.		
NAME OF CONSULTANT (FOR PLANNING)	URS CANADA INC.	DATE	MAY 2007

FILENAME: C:\PRC\16_Structure\16_CADD\Planning Sheets\16_Alt\Alternative 2B\July 18-2007\REVISED\2B-32.dwg
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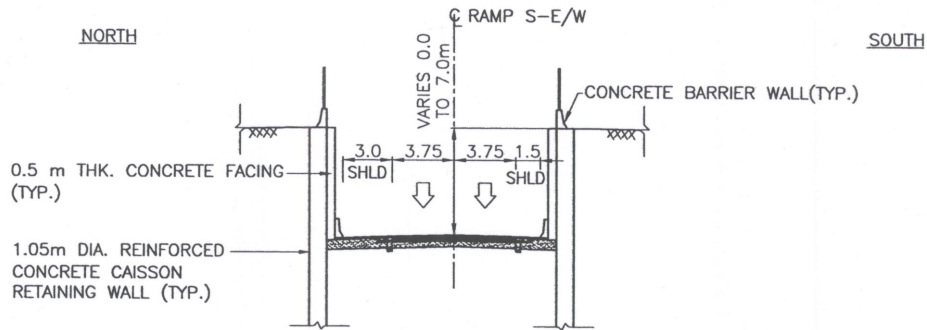
STRUCTURAL PLANNING SHEET

W.O.NO.	----	CORRIDOR	HC-T	ROUTE	ALIGNMENT ALTERNATIVE 2B
STRUCTURE I.D.	2B-34	SITE NO.	----	LOCATION	HWY 401 RAMPS TO CABANA ROAD WEST/ TODD LANE
STRUCTURE NAME	RAMPS E/W-S AND S-E/W			<input type="checkbox"/> EXISTING <input checked="" type="checkbox"/> NEW	<input type="checkbox"/> OVERPASS <input type="checkbox"/> BELOW GRADE HWY <input type="checkbox"/> UNDERPASS <input checked="" type="checkbox"/> APPROACH RAMP
STRUCTURE DESCRIPTION	BOAT SECTION WITH CAISSON RETAINING WALLS OF VARIABLE HEIGHTS				



NOTE : RAMP S-E/W TO CABANA ROAD WEST/TODD LANE IS SHOWN.
RAMP E/W-S TO HWY 401EB IS SIMILAR WITH DIFFERENT ORIENTATION.

ELEVATION SKETCH
1:400



NOTE : RAMP S-E/W TO CABANA ROAD WEST/TODD LANE IS SHOWN.
RAMP E/W-S TO HWY 401EB IS SIMILAR WITH DIFFERENT ORIENTATION.

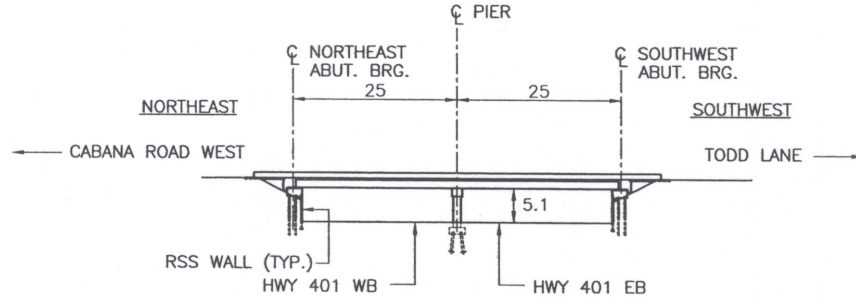
CROSS-SECTION SKETCH
1:400

LENGTH (m)	800	WIDTH (m)	----
STRUCTURAL DEPTH (m)	----	SPAN/DEPTH RATIO	----
SKREW ANGLE	----	VERTICAL CLEARANCE (m)	----
UNIT PRICE (\$/m)	NEW STRUCTURE	30,000	ESTIMATED COST (\$) 24,000,000
	REHABILITATION	----	
COMMENTS (SPECIAL CONSTRUCTION & DESIGN FEATURES)	RAMPS ON BOTH SIDES OF HWY 401 ARE INCLUDED.		
NAME OF CONSULTANT (FOR PLANNING)	URS CANADA INC.	DATE	MAY 2007

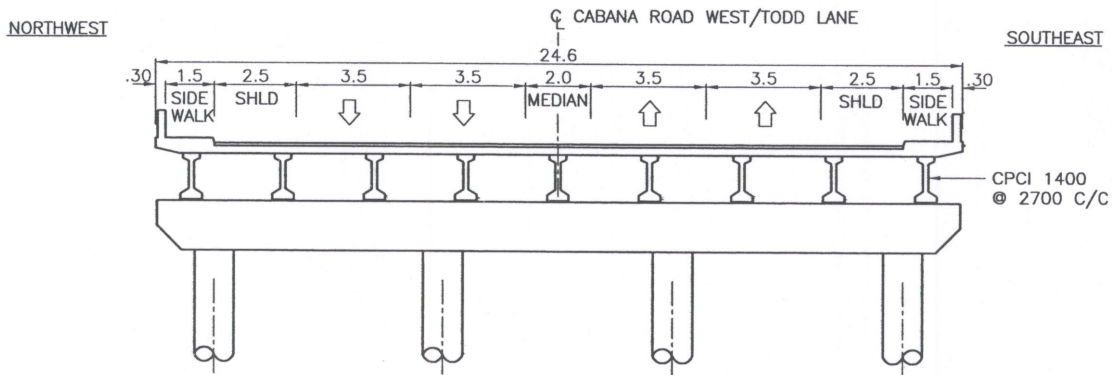
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 PLOTDATE: Aug 06, 2007 - 12:30pm

STRUCTURAL PLANNING SHEET

W.O.NO.	----	CORRIDOR	HC-T	ROUTE	ALIGNMENT ALTERNATIVE 2B
STRUCTURE I.D.	2B-42	SITE NO.	----	LOCATION	CABANA ROAD WEST/TODD LANE ABOVE HWY 401
BRIDGE NAME	CABANA ROAD WEST UNDERPASS			<input type="checkbox"/> EXISTING <input checked="" type="checkbox"/> NEW	<input type="checkbox"/> OVERPASS <input checked="" type="checkbox"/> UNDERPASS <input type="checkbox"/> BELOW GRADE HWY <input type="checkbox"/> APPROACH RAMP
STRUCTURE DESCRIPTION	TWO SPANS CPCI 1400 GIRDERS ON SEMI-INTEGRAL ABUTMENTS WITH RSS WALL				



ELEVATION SKETCH
1:1000



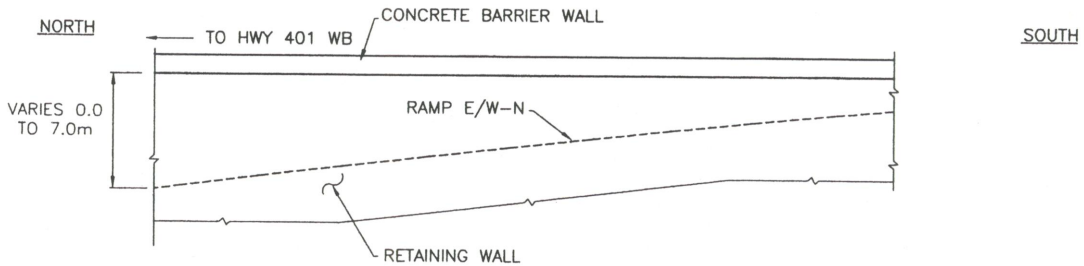
CROSS-SECTION SKETCH
1:200

LENGTH (m)	50	WIDTH (m)	24.60	
STRUCTURAL DEPTH (m)	1.7	SPAN/DEPTH RATIO	15	
SKEW ANGLE	35°	VERTICAL CLEARANCE (m)	5.1	
UNIT PRICE (\$/m ²)	NEW STRUCTURE	2,200	ESTIMATED COST (\$)	2,706,000
	REHABILITATION	----		
COMMENTS (SPECIAL CONSTRUCTION & DESIGN FEATURES)	<ul style="list-style-type: none"> - OUTER SURFACE OF RSS WALL OF ABUTMENTS TO MATCH THE RW OF DEPRESSED HWY 401 ON EITHER SIDE OF THE BRIDGE CROSSING. - SEMI-INTEGRAL ABUTMENT DUE TO 35° SKEW - THE WIDTH OF THE BRIDGE MAY HAVE TO BE INCREASED TO ACCOMMODATE SPEED CHANGE LANES FOR DESIGN YEAR 2035. 			
NAME OF CONSULTANT (FOR PLANNING)	URS CANADA INC.	DATE	MAY 2007	

FILENAME:O:\PRIC\16_Structural\CADD\Planning Sheets\ Hwy Alternatives\2007\Bridges\Alt-07-July 18-2007\REVISIONS.dwg
 PLOTDATE:Aug 06, 2007 12:02pm

STRUCTURAL PLANNING SHEET

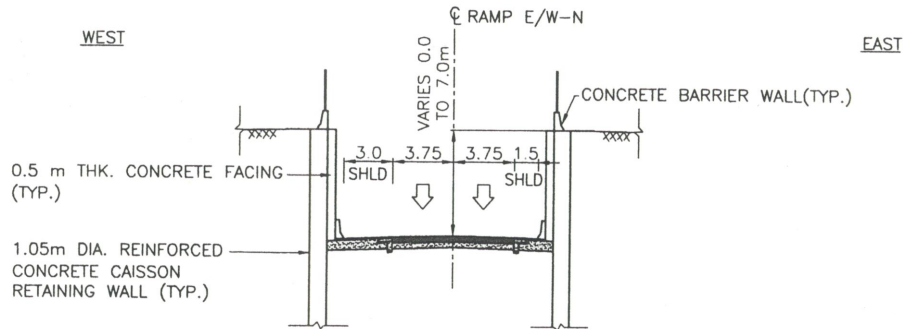
W.O.NO.	----	CORRIDOR	HC-T	ROUTE	ALIGNMENT ALTERNATIVE 2B
STRUCTURE I.D.	2B-43	SITE NO.	----	LOCATION	SIDE ROAD RAMPS AT EAST OF CABANA ROAD WEST/TODD LANE
STRUCTURE NAME	RAMPS N-E/W AND E/W-N			<input type="checkbox"/> EXISTING <input checked="" type="checkbox"/> NEW	<input type="checkbox"/> OVERPASS <input type="checkbox"/> BELOW GRADE HWY <input type="checkbox"/> UNDERPASS <input checked="" type="checkbox"/> APPROACH RAMP
STRUCTURE DESCRIPTION	BOAT SECTION WITH CAISSON RETAINING WALLS OF VARIABLE HEIGHTS				



NOTE : RAMP E/W-N TO HWY 401 WB IS SHOWN
RAMP N-E/W TO CABANA ROAD WEST/TODD LANE IS SIMILAR WITH DIFFERENT ORIENTATION.

ELEVATION SKETCH

1:400



NOTE : RAMP E/W-N TO HWY 401 WB IS SHOWN
RAMP N-E/W TO CABANA ROAD WEST/TODD LANE IS SIMILAR WITH DIFFERENT ORIENTATION.

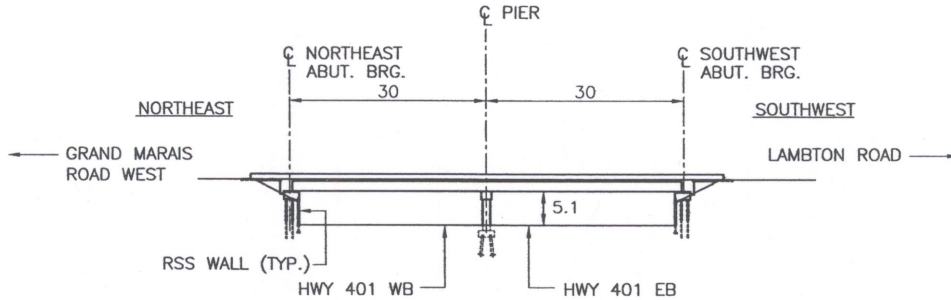
CROSS-SECTION SKETCH

1:400

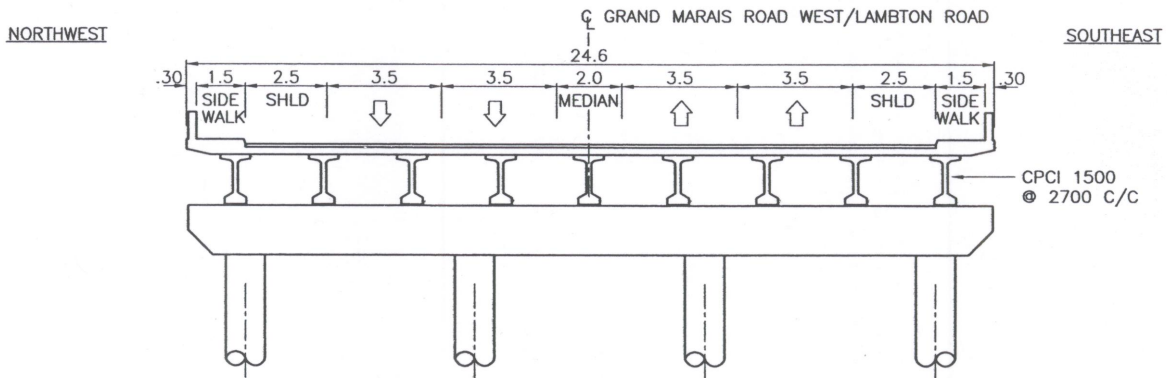
LENGTH (m)	400	WIDTH (m)	----
STRUCTURAL DEPTH (m)	----	SPAN/DEPTH RATIO	----
SKEW ANGLE	----	VERTICAL CLEARANCE (m)	----
UNIT PRICE (\$/m)	NEW STRUCTURE	30,000	ESTIMATED COST (\$) 12,000,000
	REHABILITATION	----	
COMMENTS (SPECIAL CONSTRUCTION & DESIGN FEATURES)	RAMPS ON BOTH SIDES OF HWY 401 ARE INCLUDED.		
NAME OF CONSULTANT (FOR PLANNING)	URS CANADA INC.	DATE	FEBRUARY 2007

STRUCTURAL PLANNING SHEET

W.O.NO.	----	CORRIDOR	HC-T	ROUTE	ALIGNMENT ALTERNATIVE 2B
STRUCTURE I.D.	2B-51	SITE NO.	----	LOCATION	LAMBTON/GRAND MARAIS ROAD ABOVE HWY 401
BRIDGE NAME	GRAND MARAIS ROAD WEST/LAMBTON UNDERPASS			<input type="checkbox"/> EXISTING <input checked="" type="checkbox"/> NEW	<input type="checkbox"/> OVERPASS <input checked="" type="checkbox"/> UNDERPASS <input type="checkbox"/> BELOW GRADE HWY <input type="checkbox"/> APPROACH RAMP
STRUCTURE DESCRIPTION	TWO SPANS CPCI 1500 GIRDERS ON SEMI-INTEGRAL ABUTMENTS WITH RSS WALLS				



ELEVATION SKETCH
1:1000



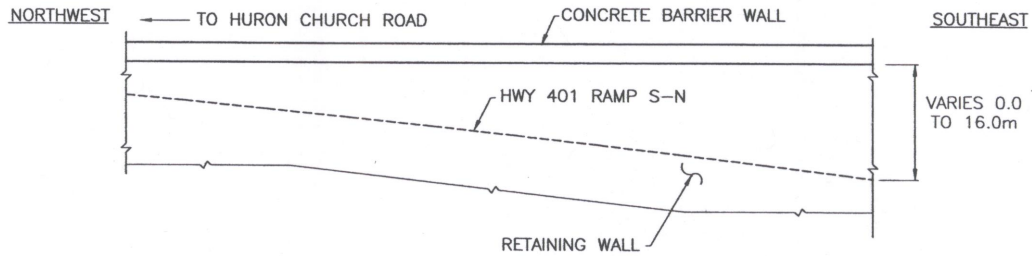
CROSS-SECTION SKETCH
1:200

LENGTH (m)	60	WIDTH (m)	24.60
STRUCTURAL DEPTH (m)	1.8	SPAN/DEPTH RATIO	17
SKEW ANGLE	25°	VERTICAL CLEARANCE (m)	5.1
UNIT PRICE (\$/m)	NEW STRUCTURE 2,200 REHABILITATION ----	ESTIMATED COST (\$)	3,247,000
COMMENTS (SPECIAL CONSTRUCTION & DESIGN FEATURES)	- OUTER SURFACE OF RSS WALL OF ABUTMENTS TO MATCH THE RW OF DEPRESSED HWY 401 ON EITHER SIDE OF THE BRIDGE CROSSING. - SEMI-INTEGRAL ABUTMENT DUE TO 25° SKEW.		
NAME OF CONSULTANT (FOR PLANNING)	URS CANADA INC.	DATE	MAY 2007

FILENAME:O:\PRIC\18_Structural\CADD\Planning Sheets\Hwy Alternatives\2007\Bridge-Alt-07-July 18-2007\REVISED\2007\Bridge-Alt-07-July 18-2007\REVISED.dwg
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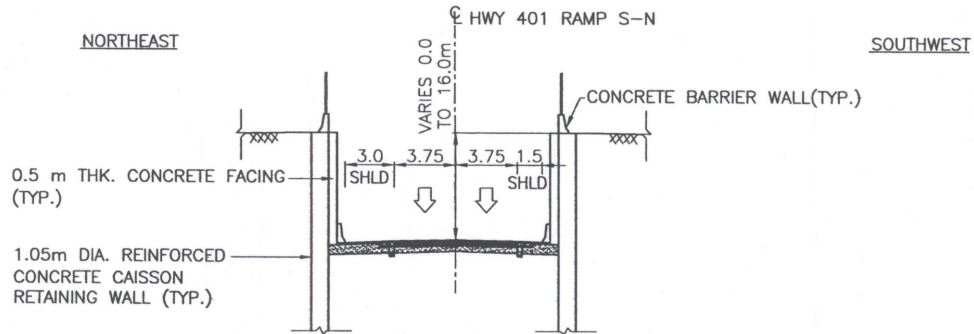
STRUCTURAL PLANNING SHEET

W.O.NO.	----	CORRIDOR	HC-T	ROUTE	ALIGNMENT ALTERNATIVE 2B
STRUCTURE I.D.	2B-52	SITE NO.	----	LOCATION	HWY 401 RAMPS TO HURON CHURCH ROAD
STRUCTURE NAME	HWY 401 RAMPS N-S AND S-N			<input type="checkbox"/> EXISTING <input checked="" type="checkbox"/> NEW	<input type="checkbox"/> OVERPASS <input type="checkbox"/> BELOW GRADE HWY <input type="checkbox"/> UNDERPASS <input checked="" type="checkbox"/> APPROACH RAMP
STRUCTURE DESCRIPTION	BOAT SECTION WITH CAISSON RETAINING WALLS OF VARIABLE HEIGHTS				



NOTE : RAMP S-N FROM HWY 401 WB TO HURON CHURCH ROAD IS SHOWN.
RAMP N-S FROM HURON CHURCH ROAD TO HWY 401 EB IS SIMILAR WITH DIFFERENT ORIENTATION.

ELEVATION SKETCH
1:400



NOTE : RAMP S-N FROM HWY 401 WB TO HURON CHURCH ROAD IS SHOWN.
RAMP N-S FROM HURON CHURCH ROAD TO HWY 401 EB IS SIMILAR WITH DIFFERENT ORIENTATION.

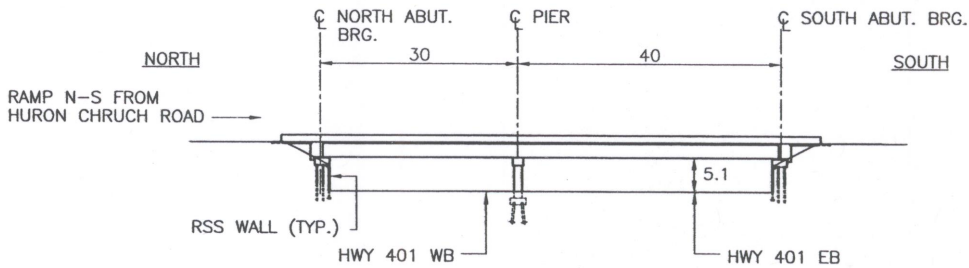
CROSS-SECTION SKETCH
1:400

LENGTH (m)	500	WIDTH (m)	----
STRUCTURAL DEPTH (m)	----	SPAN/DEPTH RATIO	----
SKEW ANGLE	----	VERTICAL CLEARANCE (m)	----
UNIT PRICE (\$/m)	NEW STRUCTURE	65,000	ESTIMATED COST (\$) 32,500,000
	REHABILITATION	----	
COMMENTS (SPECIAL CONSTRUCTION & DESIGN FEATURES)	RAMPS N-S AND S-N ON BOTH SIDES OF HWY 401 ARE INCLUDED.		
NAME OF CONSULTANT (FOR PLANNING)	URS CANADA INC.	DATE	MAY 2007

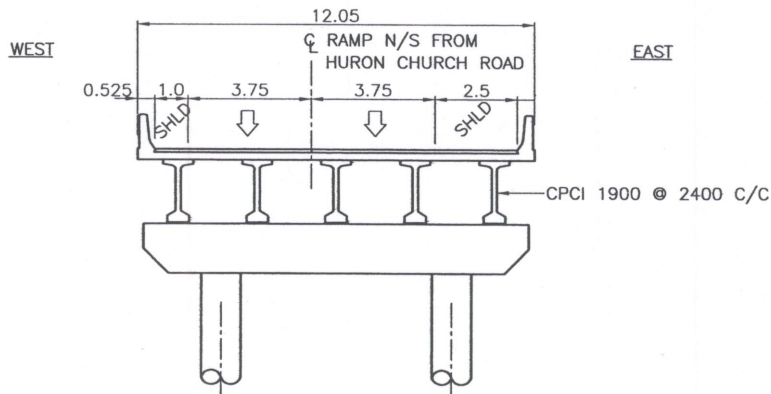
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PLOT DATE: Aug 06, 2007 - 12:53pm

STRUCTURAL PLANNING SHEET

W.O.NO.	----	CORRIDOR	HC-T	ROUTE	ALIGNMENT ALTERNATIVE 2B
STRUCTURE I.D.	2B-62	SITE NO.	----	LOCATION	HURON CHURCH ROAD RAMP N-S OVER HWY 401
BRIDGE NAME	HURON CHURCH ROAD RAMP N-S UNDERPASS			<input type="checkbox"/> EXISTING <input checked="" type="checkbox"/> NEW	<input type="checkbox"/> OVERPASS <input type="checkbox"/> BELOW GRADE HWY <input checked="" type="checkbox"/> UNDERPASS <input type="checkbox"/> APPROACH RAMP
STRUCTURE DESCRIPTION	TWO SPANS CPCI 1600 GIRDERS ON SEMI-INTEGRAL ABUTMENTS WITH RSS WALLS				



ELEVATION SKETCH
1:1000



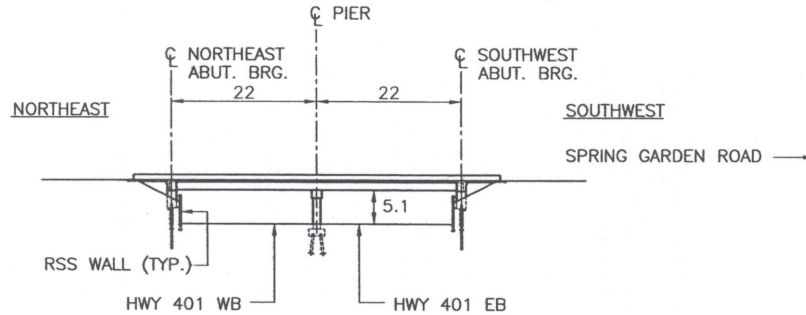
CROSS-SECTION SKETCH
1:200

LENGTH (m)	70	WIDTH (m)	12.05
STRUCTURAL DEPTH (m)	2.2	SPAN/DEPTH RATIO	18
SKREW ANGLE	45°	VERTICAL CLEARANCE (m)	5.1
UNIT PRICE (\$/m2)	NEW STRUCTURE	2,200	ESTIMATED COST (\$) 1,856,000
	REHABILITATION	----	
COMMENTS (SPECIAL CONSTRUCTION & DESIGN FEATURES)	<ul style="list-style-type: none"> - OUTER SURFACE OF RSS WALL OF ABUTMENTS TO MATCH THE RW OF DEPRESSED HWY 401 ON EITHER SIDE OF THE BRIDGE CROSSING. - SEMI-INTEGRAL ABUTMENT DUE TO 45° SKEW. 		
NAME OF CONSULTANT (FOR PLANNING)	URS CANADA INC.	DATE	MAY 2007

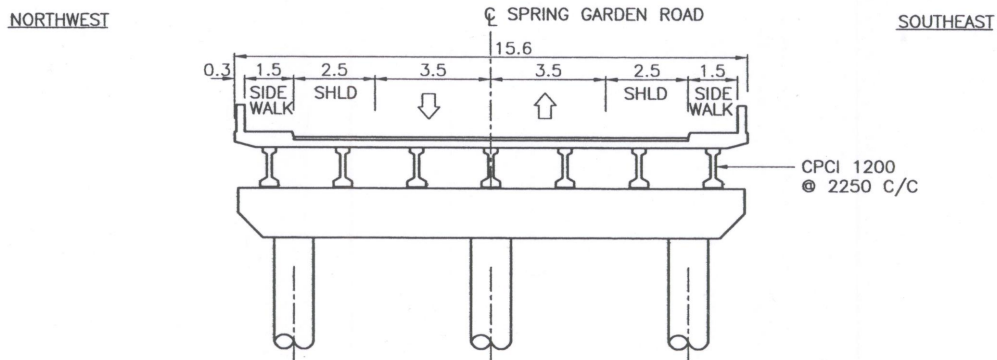
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 PLOTDATE: Aug 08, 2007 - 12:53pm

STRUCTURAL PLANNING SHEET

W.O.NO.	----	CORRIDOR	HC-T	ROUTE	ALIGNMENT ALTERNATIVE 2B
STRUCTURE I.D.	2B-63	SITE NO.	----	LOCATION	SPRING GARDEN ROAD ABOVE HWY 401
BRIDGE NAME	SPRING GARDEN ROAD UNDERPASS			<input type="checkbox"/> EXISTING <input checked="" type="checkbox"/> NEW	<input type="checkbox"/> OVERPASS <input type="checkbox"/> BELOW GRADE HWY <input checked="" type="checkbox"/> UNDERPASS <input type="checkbox"/> APPROACH RAMP
STRUCTURE DESCRIPTION	TWO SPANS CPCI 1200 GIRDERS ON INTEGRAL ABUTMENTS WITH RSS WALL				



ELEVATION SKETCH
1:1000



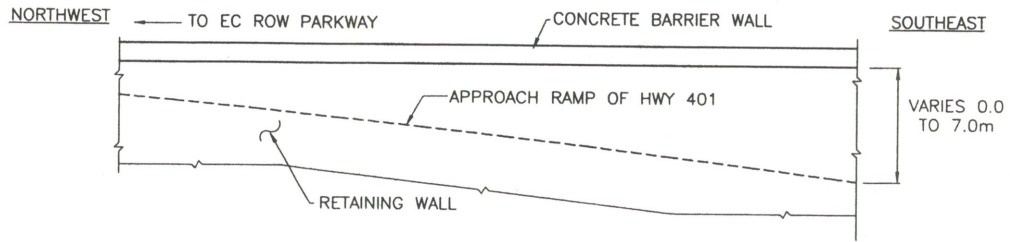
CROSS-SECTION SKETCH
1:200

LENGTH (m)	44	WIDTH (m)	15.60
STRUCTURAL DEPTH (m)	1.5	SPAN/DEPTH RATIO	15
SKEW ANGLE	20°	VERTICAL CLEARANCE (m)	5.1
UNIT PRICE (\$/m ²)	NEW STRUCTURE	2,100	ESTIMATED COST (\$) 1,441,000
	REHABILITATION	----	
COMMENTS (SPECIAL CONSTRUCTION & DESIGN FEATURES)	- OUTER SURFACE OF RSS WALL OF ABUTMENTS TO MATCH THE RW OF DEPRESSED HWY 401 ON EITHER SIDE OF THE BRIDGE CROSSING.		
NAME OF CONSULTANT (FOR PLANNING)	URS CANADA INC.	DATE	MAY 2007

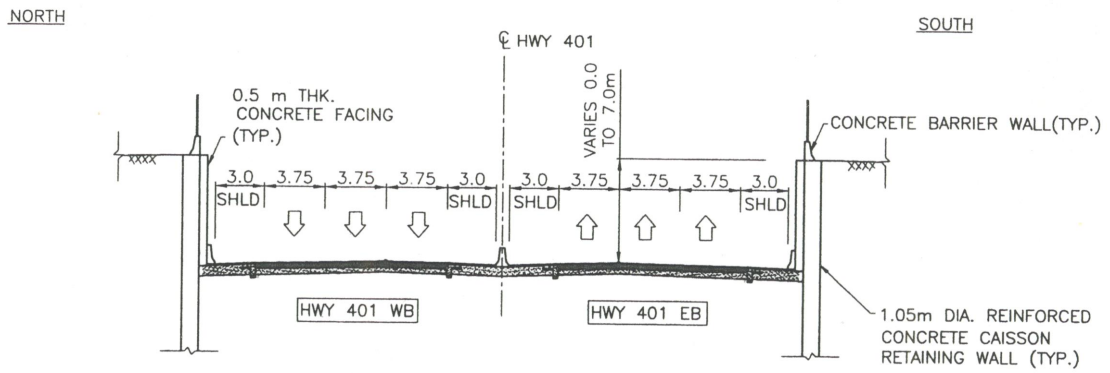
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 PLOTDATE:Aug 06, 2007 - 12:03pm

STRUCTURAL PLANNING SHEET

W.O.NO.	----	CORRIDOR	HC-T	ROUTE	ALIGNMENT ALTERNATIVE 2B
STRUCTURE I.D.	2B-64	SITE NO.	----	LOCATION	HWY 401 RAMP AT SOUTH OF EC ROW PARKWAY
STRUCTURE NAME	APPROACH RAMP OF HWY 401 NEAR SPRING GARDEN ROAD			<input type="checkbox"/> EXISTING <input checked="" type="checkbox"/> NEW	<input type="checkbox"/> OVERPASS <input type="checkbox"/> UNDERPASS <input type="checkbox"/> BELOW GRADE HWY <input checked="" type="checkbox"/> APPROACH RAMP
STRUCTURE DESCRIPTION	BOAT SECTION WITH CAISSON RETAINING WALLS OF VARIABLE HEIGHTS				



ELEVATION SKETCH
1:400



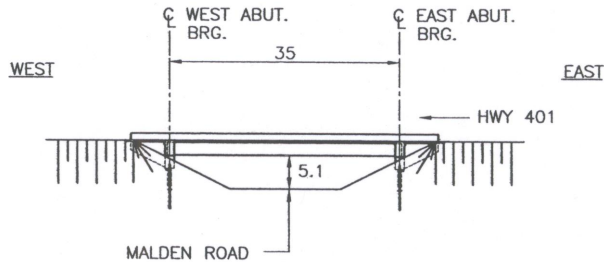
CROSS-SECTION SKETCH
1:400

LENGTH (m)	400	WIDTH (m)	----
STRUCTURAL DEPTH (m)	----	SPAN/DEPTH RATIO	----
SKEW ANGLE	----	VERTICAL CLEARANCE (m)	----
UNIT PRICE (\$/m)	NEW STRUCTURE	30,000	ESTIMATED COST (\$) 12,000,000
	REHABILITATION	----	
COMMENTS (SPECIAL CONSTRUCTION & DESIGN FEATURES)			
NAME OF CONSULTANT (FOR PLANNING)	URS CANADA INC.	DATE	FEBRUARY 2007

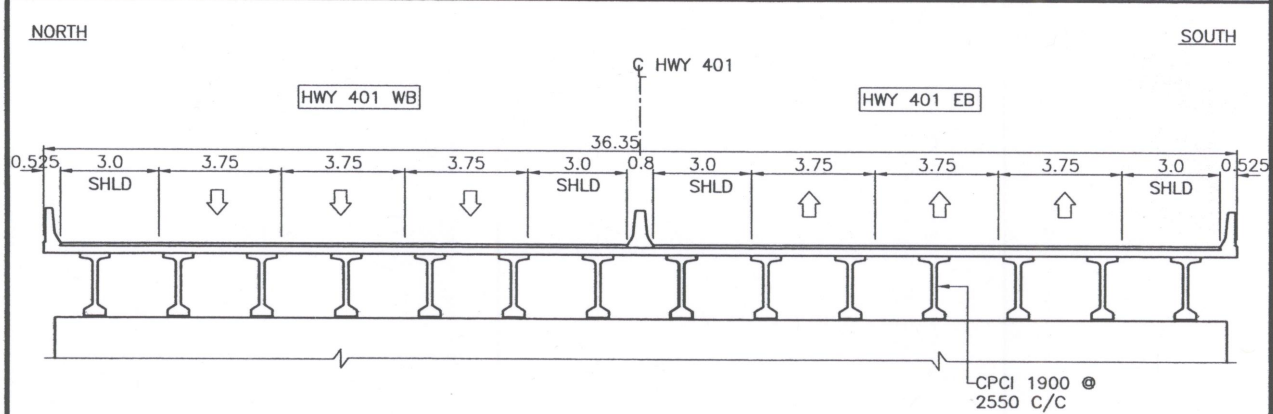
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 PLOTDATE:Nov 02, 2007 - 1:33pm

STRUCTURAL PLANNING SHEET

W.O.NO.	----	CORRIDOR	HC-T	ROUTE	ALIGNMENT ALTERNATIVE 2B
STRUCTURE I.D.	2B-90	SITE NO.	----	LOCATION	HWY 401 ABOVE MALDEN RD
BRIDGE NAME	MALDEN ROAD OVERPASS			<input type="checkbox"/> EXISTING <input checked="" type="checkbox"/> NEW	<input checked="" type="checkbox"/> OVERPASS <input type="checkbox"/> BELOW GRADE HWY <input type="checkbox"/> UNDERPASS <input type="checkbox"/> APPROACH RAMP
STRUCTURE DESCRIPTION	SINGLE SPAN CPCI 1900 GIRDERS WITH INTEGRAL ABUTMENTS				



ELEVATION SKETCH
1:1000



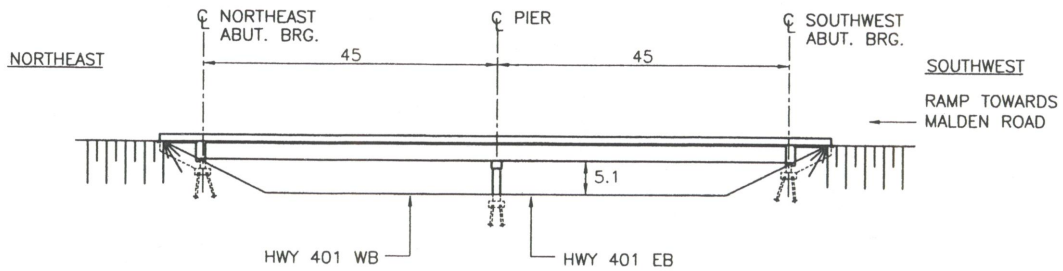
CROSS-SECTION SKETCH
1:200

LENGTH (m)	35	WIDTH (m)	36.35
STRUCTURAL DEPTH (m)	2.2	SPAN/DEPTH RATIO	16
SKEW ANGLE	15°	VERTICAL CLEARANCE (m)	5.1
UNIT PRICE (\$/m ²)	NEW STRUCTURE	2,000	ESTIMATED COST (\$) 2,545,000
	REHABILITATION	----	
COMMENTS (SPECIAL CONSTRUCTION & DESIGN FEATURES)	HWY 401 CROSSES OVER MALDEN ROAD ON SKEW. HOWEVER THE RECTANGULAR BRIDGE DECK IS CONSIDERED.		
NAME OF CONSULTANT (FOR PLANNING)	URS CANADA INC.	DATE	MAY 2007

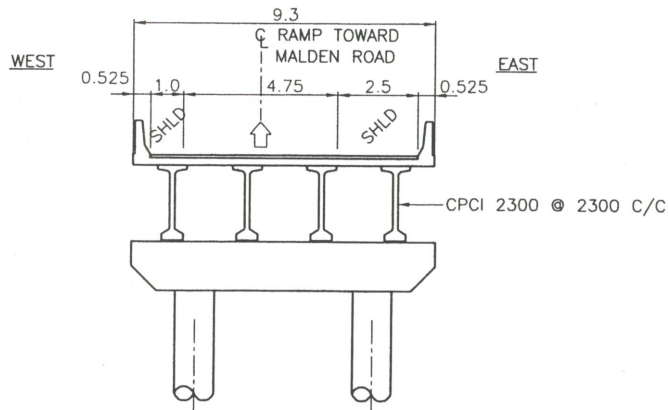
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STRUCTURAL PLANNING SHEET

W.O.NO.	----	CORRIDOR	HC-T	ROUTE	ALIGNMENT ALTERNATIVE 2B
STRUCTURE I.D.	2B-91	SITE NO.	----	LOCATION	RAMP TOWARDS MALDEN ROAD ABOVE HWY 401
BRIDGE NAME	RAMP W-E UNDERPASS			<input type="checkbox"/> EXISTING <input checked="" type="checkbox"/> NEW	<input type="checkbox"/> OVERPASS <input type="checkbox"/> BELOW GRADE HWY <input checked="" type="checkbox"/> UNDERPASS <input type="checkbox"/> APPROACH RAMP
STRUCTURE DESCRIPTION	TWO SPANS CPCI 2300 GIRDERS WITH SEMI-INTEGRAL ABUTMENTS				



ELEVATION SKETCH
1:1000



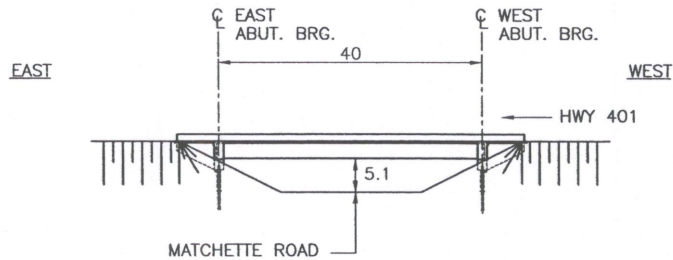
CROSS-SECTION SKETCH
1:200

LENGTH (m)	90	WIDTH (m)	9.30	
STRUCTURAL DEPTH (m)	2.6	SPAN/DEPTH RATIO	17	
SKEW ANGLE	55°	VERTICAL CLEARANCE (m)	5.1	
UNIT PRICE (\$/m ²)	NEW STRUCTURE	2,100	ESTIMATED COST (\$)	1,758,000
	REHABILITATION	----		
COMMENTS (SPECIAL CONSTRUCTION & DESIGN FEATURES)	SEMI-INTEGRAL ABUTMENTS DUE TO 55° SKEW			
NAME OF CONSULTANT (FOR PLANNING)	URS CANADA INC.	DATE	FEBRUARY 2007	

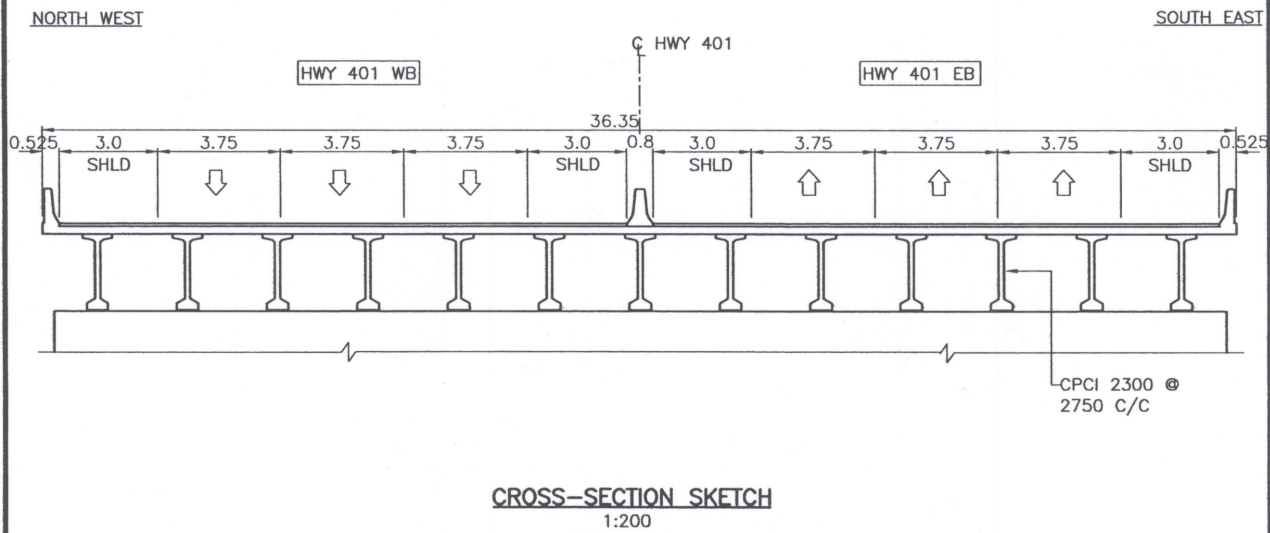
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STRUCTURAL PLANNING SHEET

W.O.NO.	----	CORRIDOR	HC-T	ROUTE	ALIGNMENT ALTERNATIVE 2B
STRUCTURE I.D.	2B-92	SITE NO.	----	LOCATION	MATCHETTE RD. ABOVE HWY 401
BRIDGE NAME	MATCHETTE ROAD OVERPASS			<input type="checkbox"/> EXISTING <input checked="" type="checkbox"/> NEW	<input checked="" type="checkbox"/> OVERPASS <input type="checkbox"/> BELOW GRADE HWY <input type="checkbox"/> UNDERPASS <input type="checkbox"/> APPROACH RAMP
STRUCTURE DESCRIPTION	SINGLE SPAN CPCI 2300 GIRDERS WITH INTEGRAL ABUTMENTS				



ELEVATION SKETCH
1:1000



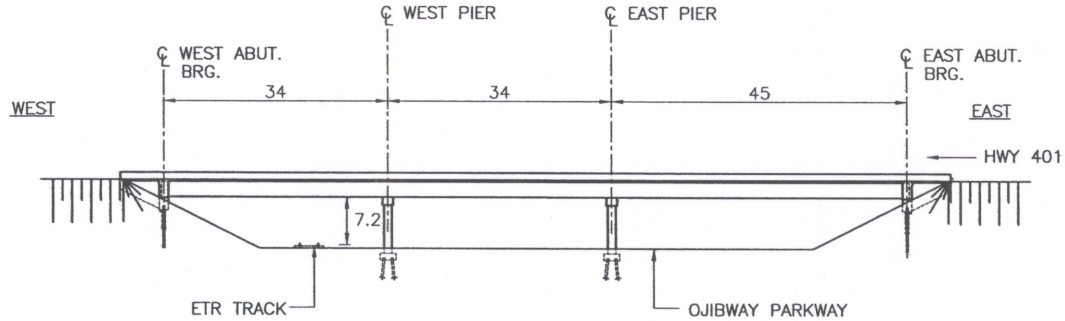
CROSS-SECTION SKETCH
1:200

LENGTH (m)	40	WIDTH (m)	36.35
STRUCTURAL DEPTH (m)	2.6	SPAN/DEPTH RATIO	16
SKREW ANGLE	20°	VERTICAL CLEARANCE (m)	5.1
UNIT PRICE (\$/m ²)	NEW STRUCTURE	2,000	ESTIMATED COST (\$) 2,908,000
	REHABILITATION	----	
COMMENTS (SPECIAL CONSTRUCTION & DESIGN FEATURES)	HWY 401 CROSSES ABOVE MATCHETTE ROAD ON SKEW, HOWEVER RECTANGULAR BRIDGE DECK IS CONSIDERED.		
NAME OF CONSULTANT (FOR PLANNING)	URS CANADA INC.	DATE	MAY 2007

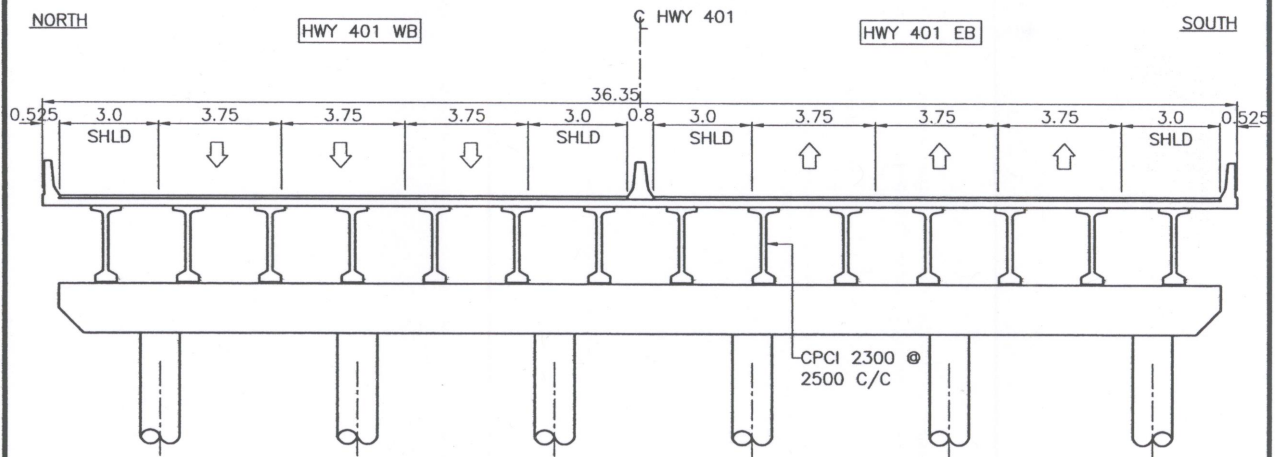
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PLOTDATE: Aug 06, 2007 - 12:03PM

STRUCTURAL PLANNING SHEET

W.O.NO.	----	CORRIDOR	HC-T	ROUTE	ALIGNMENT ALTERNATIVE 2B
STRUCTURE I.D.	2B-93	SITE NO.	----	LOCATION	HWY 401 OVER OJIBWAY PKWY & ETR TRACK
BRIDGE NAME	OJIBWAY/ETR OVERPASS			<input type="checkbox"/> EXISTING <input checked="" type="checkbox"/> NEW	<input checked="" type="checkbox"/> OVERPASS <input type="checkbox"/> BELOW GRADE HWY <input type="checkbox"/> UNDERPASS <input type="checkbox"/> APPROACH RAMP
STRUCTURE DESCRIPTION	THREE SPANS CPCI 2300 GIRDERS WITH INTEGRAL ABUTMENTS				



ELEVATION SKETCH
1:1000



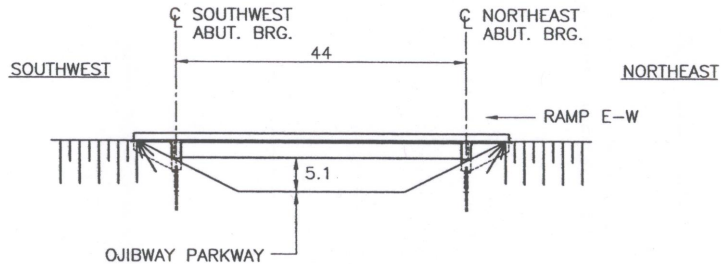
CROSS-SECTION SKETCH
1:200

LENGTH (m)	113	WIDTH (m)	36.35
STRUCTURAL DEPTH (m)	2.6	SPAN/DEPTH RATIO	17
SKEW ANGLE	20° (OJIBWAY PKWY) 0° (ETR)	VERTICAL CLEARANCE (m)	7.1
UNIT PRICE (\$/m ²)	NEW STRUCTURE	2,500	ESTIMATED COST (\$) 10,269,000
	REHABILITATION	----	
COMMENTS (SPECIAL CONSTRUCTION & DESIGN FEATURES)	HWY 401 CROSSING ABOVE OJIBWAY PARKWAY NEAR NEW INTERCHANGE AT EC ROW PARKWAY AND ESSEX TERMINAL RAILWAY (ETR) TRACK.		
NAME OF CONSULTANT (FOR PLANNING)	URS CANADA INC.	DATE	MAY 2007

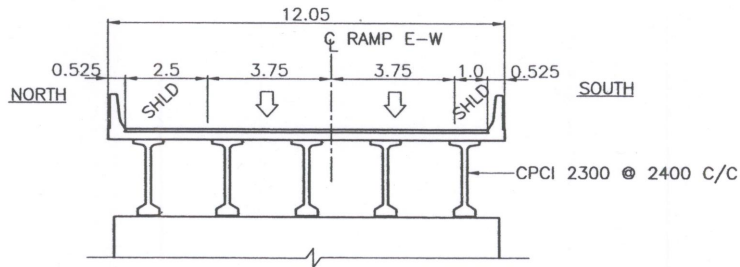
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STRUCTURAL PLANNING SHEET

W.O.NO.	----	CORRIDOR	HC-T	ROUTE	ALIGNMENT ALTERNATIVE 2B
STRUCTURE I.D.	2B-94	SITE NO.	----	LOCATION	RAMP E-W ABOVE OJIBWAY PKWY
BRIDGE NAME	RAMP E-W OJIBWAY PARKWAY OVERPASS		<input type="checkbox"/> EXISTING <input checked="" type="checkbox"/> NEW	<input checked="" type="checkbox"/> OVERPASS <input type="checkbox"/> UNDERPASS	<input type="checkbox"/> BELOW GRADE HWY <input type="checkbox"/> APPROACH RAMP
STRUCTURE DESCRIPTION	SINGLE SPAN CPCI 2300 GIRDERS WITH INTEGRAL ABUTMENTS				



ELEVATION SKETCH
1:1000



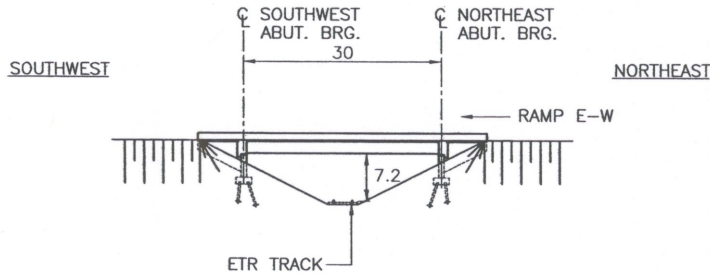
CROSS-SECTION SKETCH
1:200

LENGTH (m)	44	WIDTH (m)	12.05
STRUCTURAL DEPTH (m)	2.6	SPAN/DEPTH RATIO	17
SKEW ANGLE	20°	VERTICAL CLEARANCE (m)	5.1
UNIT PRICE (\$/m ²)	NEW STRUCTURE	2,000	ESTIMATED COST (\$) 1,060,000
	REHABILITATION	----	
COMMENTS (SPECIAL CONSTRUCTION & DESIGN FEATURES)	E-W RAMP CROSSES ABOVE OJIBWAY PARKWAY ON SKEW. HOWEVER RECTANGULAR BRIDGE DECK IS CONSIDERED.		
NAME OF CONSULTANT (FOR PLANNING)	URS CANADA INC.	DATE	MAY 2007

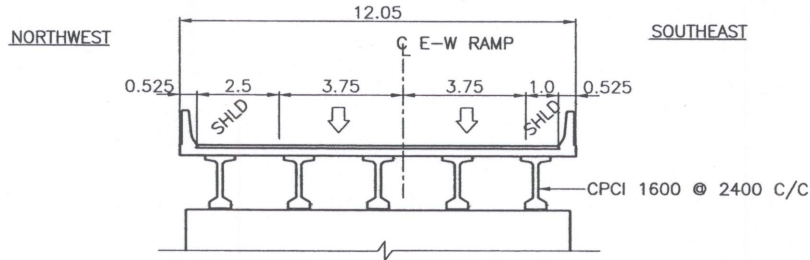
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STRUCTURAL PLANNING SHEET

W.O.NO.	----	CORRIDOR	HC-T	ROUTE	ALIGNMENT ALTERNATIVE 2B
STRUCTURE I.D.	2B-95	SITE NO.	----	LOCATION	E-W RAMP OVER ETR TRACK
BRIDGE NAME	RAMP E-W AT ETR OVERPASS			<input type="checkbox"/> EXISTING <input checked="" type="checkbox"/> NEW	<input checked="" type="checkbox"/> OVERPASS <input type="checkbox"/> BELOW GRADE HWY <input type="checkbox"/> UNDERPASS <input type="checkbox"/> APPROACH RAMP
STRUCTURE DESCRIPTION	SINGLE SPAN CPCI 1600 GIRDERS WITH SEMI-INTEGRAL ABUTMENTS				



ELEVATION SKETCH
1:1000



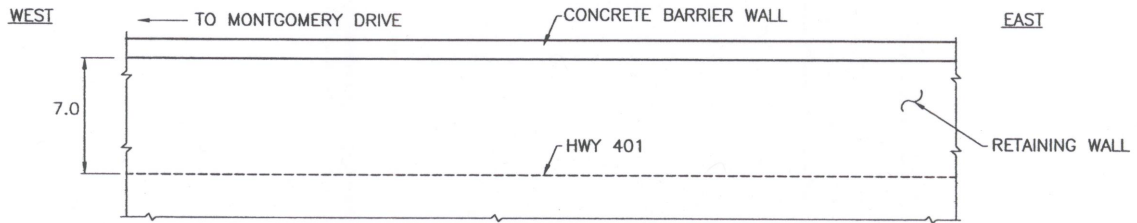
CROSS-SECTION SKETCH
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LENGTH (m)	30	WIDTH (m)	12.05
STRUCTURAL DEPTH (m)	1.9	SPAN/DEPTH RATIO	16
SKEW ANGLE	35°	VERTICAL CLEARANCE (m)	7.1
UNIT PRICE (\$/m2)	NEW STRUCTURE	2,500	ESTIMATED COST (\$) 904,000
	REHABILITATION	----	
COMMENTS (SPECIAL CONSTRUCTION & DESIGN FEATURES)	- E-W RAMP CROSSES ABOVE ESSEX TERMINAL RAILWAY (ETR) TRACK ON SKEW. HOWEVER RECTANGULAR BRIDGE DECK IS CONSIDERED. - SEMI-INTEGRAL ABUTMENTS DUE TO 35° SKEW		
NAME OF CONSULTANT (FOR PLANNING)	URS CANADA INC.	DATE	MAY 2007

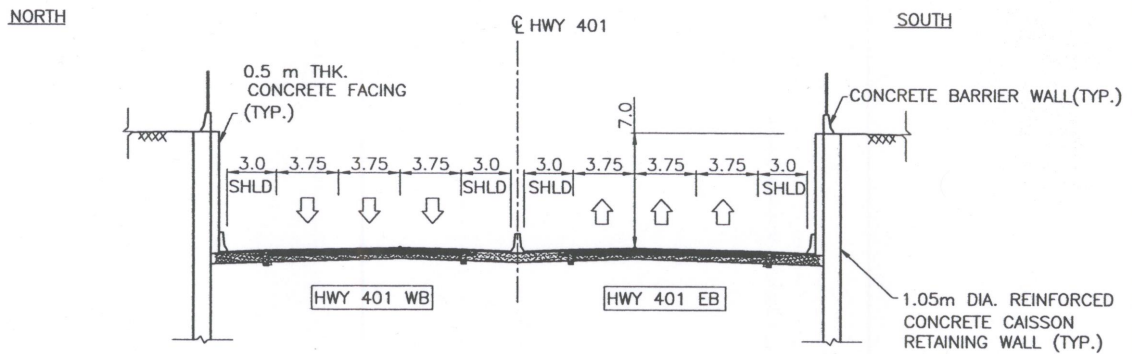
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STRUCTURAL PLANNING SHEET

W.O.NO.	----	CORRIDOR	HC-T	ROUTE	ALIGNMENT ALTERNATIVE 2B
STRUCTURE I.D.	2B-201	SITE NO.	----	LOCATION	HWY 401 AT WEST OF HOWARD AVENUE
STRUCTURE NAME	BELOW GRADE HWY 401 BETWEEN HOWARD AVENUE AND MONTGOMERY DRIVE		<input type="checkbox"/> EXISTING <input checked="" type="checkbox"/> NEW	<input type="checkbox"/> OVERPASS <input type="checkbox"/> UNDERPASS	<input checked="" type="checkbox"/> BELOW GRADE HWY <input type="checkbox"/> APPROACH RAMP
STRUCTURE DESCRIPTION	BOAT SECTION WITH CAISSON RETAINING WALLS OF UNIFORM HEIGHTS				



ELEVATION SKETCH
1:400



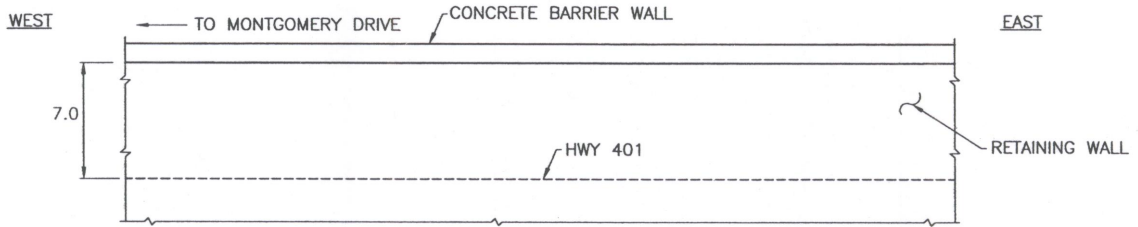
CROSS-SECTION SKETCH
1:400

LENGTH (m)	200	WIDTH (m)	----
STRUCTURAL DEPTH (m)	----	SPAN/DEPTH RATIO	----
SKEW ANGLE	----	VERTICAL CLEARANCE (m)	----
UNIT PRICE (\$/m)	NEW STRUCTURE	45,000	ESTIMATED COST (\$) 9,000,000
	REHABILITATION	----	
COMMENTS (SPECIAL CONSTRUCTION & DESIGN FEATURES)	----		
NAME OF CONSULTANT (FOR PLANNING)	URS CANADA INC.	DATE	MAY 2007

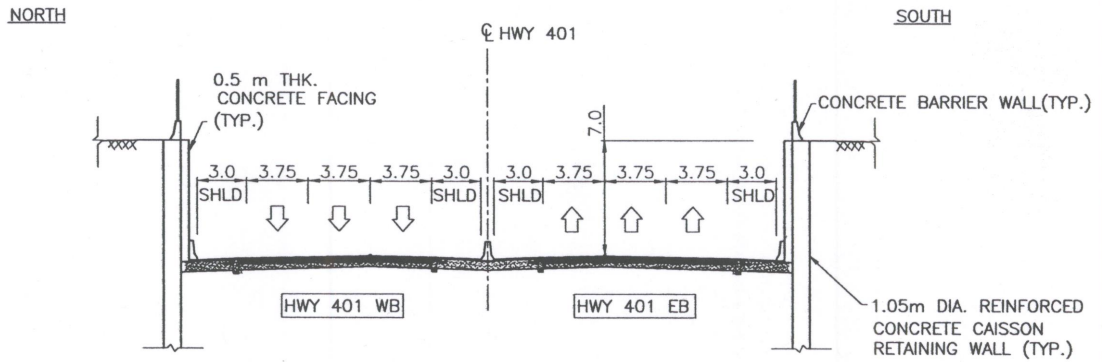
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STRUCTURAL PLANNING SHEET

W.O.NO.	----	CORRIDOR	HC-T	ROUTE	ALIGNMENT ALTERNATIVE 2B
STRUCTURE I.D.	2B-203	SITE NO.	----	LOCATION	HWY 401 AT EAST OF MONTGOMERY DRIVE
STRUCTURE NAME	BELOW GRADE HWY 401 AT EAST OF MONTGOMERY DRIVE			<input type="checkbox"/> EXISTING <input checked="" type="checkbox"/> NEW	<input type="checkbox"/> OVERPASS <input checked="" type="checkbox"/> BELOW GRADE HWY <input type="checkbox"/> UNDERPASS <input type="checkbox"/> APPROACH RAMP
STRUCTURE DESCRIPTION	BOAT SECTION WITH CAISSON RETAINING WALLS OF UNIFORM HEIGHTS				



ELEVATION SKETCH
1:400



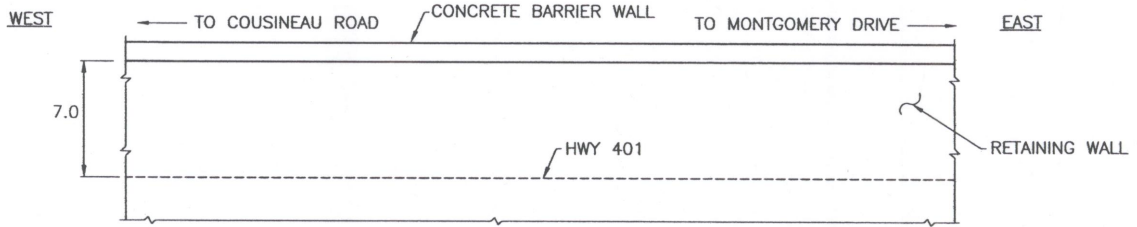
CROSS-SECTION SKETCH
1:400

LENGTH (m)	325		WIDTH (m)	----
STRUCTURAL DEPTH (m)	----		SPAN/DEPTH RATIO	----
SKEW ANGLE	----		VERTICAL CLEARANCE (m)	----
UNIT PRICE (\$/m)	NEW STRUCTURE	45,000	ESTIMATED COST (\$)	14,625,000
	REHABILITATION	----		
COMMENTS (SPECIAL CONSTRUCTION & DESIGN FEATURES)	----			
NAME OF CONSULTANT (FOR PLANNING)	URS CANADA INC.		DATE	MAY 2007

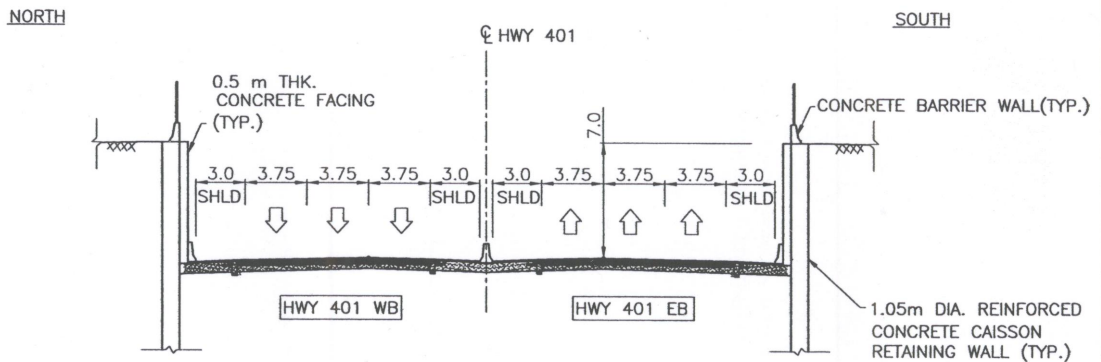
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STRUCTURAL PLANNING SHEET

W.O.NO.	----	CORRIDOR	HC-T	ROUTE	ALIGNMENT ALTERNATIVE 2B
STRUCTURE I.D.	2B-204	SITE NO.	----	LOCATION	HWY 401 AT EAST OF COUSINEAU ROAD
STRUCTURE NAME	BELOW GRADE HWY 401 BETWEEN MONTGOMERY DRIVE AND COUSINEAU ROAD		<input type="checkbox"/> EXISTING <input checked="" type="checkbox"/> NEW		<input type="checkbox"/> OVERPASS <input type="checkbox"/> UNDERPASS <input checked="" type="checkbox"/> BELOW GRADE HWY <input type="checkbox"/> APPROACH RAMP
STRUCTURE DESCRIPTION	BOAT SECTION WITH CAISSON RETAINING WALLS OF UNIFORM HEIGHTS				



ELEVATION SKETCH
1:400



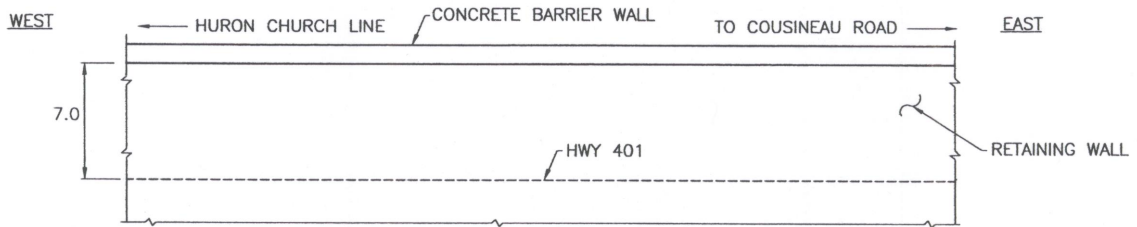
CROSS-SECTION SKETCH
1:400

LENGTH (m)	800	WIDTH (m)	----
STRUCTURAL DEPTH (m)	----	SPAN/DEPTH RATIO	----
SKEW ANGLE	----	VERTICAL CLEARANCE (m)	----
UNIT PRICE (\$/m)	NEW STRUCTURE	45,000	ESTIMATED COST (\$) 36,000,000
	REHABILITATION	----	
COMMENTS (SPECIAL CONSTRUCTION & DESIGN FEATURES)	----		
NAME OF CONSULTANT (FOR PLANNING)	URS CANADA INC.	DATE	MAY 2007

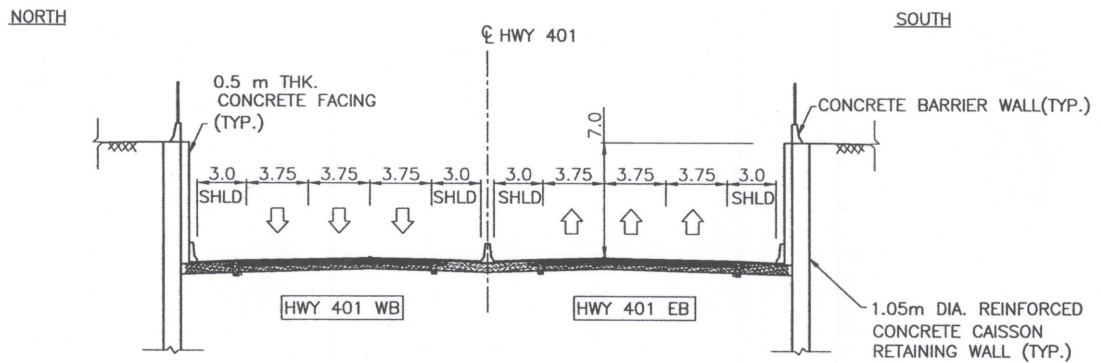
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STRUCTURAL PLANNING SHEET

W.O.NO.	----	CORRIDOR	HC-T	ROUTE	ALIGNMENT ALTERNATIVE 2B
STRUCTURE I.D.	2B-211	SITE NO.	----	LOCATION	HWY 401 AT WEST OF COUSINEAU ROAD
STRUCTURE NAME	BELOW GRADE HWY 401 BETWEEN COUSINEAU ROAD AND HURON CHURCH LINE			<input type="checkbox"/> EXISTING <input checked="" type="checkbox"/> NEW	<input type="checkbox"/> OVERPASS <input type="checkbox"/> UNDERPASS <input checked="" type="checkbox"/> BELOW GRADE HWY <input type="checkbox"/> APPROACH RAMP
STRUCTURE DESCRIPTION	BOAT SECTION WITH CAISSON RETAINING WALLS OF UNIFORM HEIGHTS				



ELEVATION SKETCH
1:400



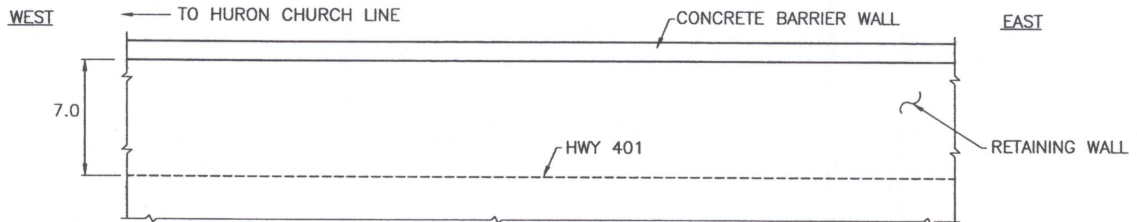
CROSS-SECTION SKETCH
1:400

LENGTH (m)	1500	WIDTH (m)	----
STRUCTURAL DEPTH (m)	----	SPAN/DEPTH RATIO	----
SKEW ANGLE	----	VERTICAL CLEARANCE (m)	----
UNIT PRICE (\$/m)	NEW STRUCTURE	45,000	ESTIMATED COST (\$)
	REHABILITATION	----	
COMMENTS (SPECIAL CONSTRUCTION & DESIGN FEATURES)	----		
NAME OF CONSULTANT (FOR PLANNING)	URS CANADA INC.	DATE	MAY 2007

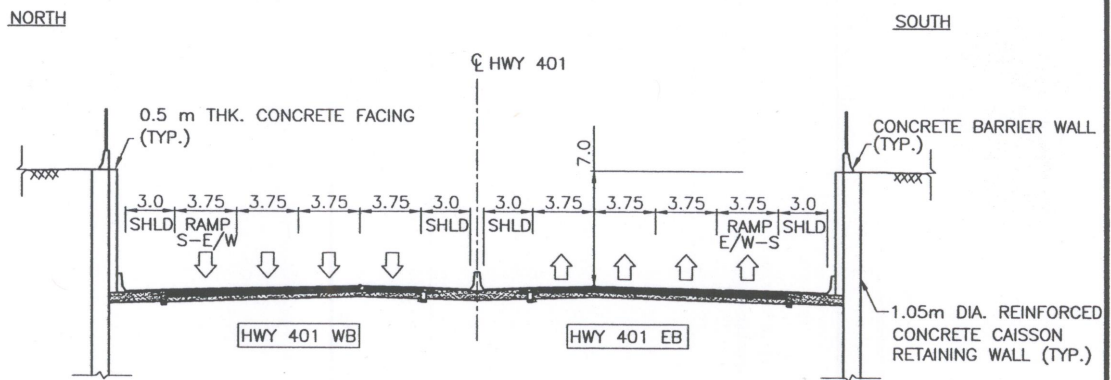
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STRUCTURAL PLANNING SHEET

W.O.NO.	----	CORRIDOR	HC-T	ROUTE	ALIGNMENT ALTERNATIVE 2B
STRUCTURE I.D.	2B-212	SITE NO.	----	LOCATION	HWY 401 AT EAST OF HURON CHURCH LINE
STRUCTURE NAME	BELOW GRADE HWY 401 WITH RAMPS AT EAST OF HURON CHURCH LINE		<input type="checkbox"/> EXISTING <input checked="" type="checkbox"/> NEW		<input type="checkbox"/> OVERPASS <input type="checkbox"/> UNDERPASS <input checked="" type="checkbox"/> BELOW GRADE HWY <input type="checkbox"/> APPROACH RAMP
STRUCTURE DESCRIPTION	BOAT SECTION WITH CAISSON RETAINING WALLS OF UNIFORM HEIGHTS				



ELEVATION SKETCH
1:400



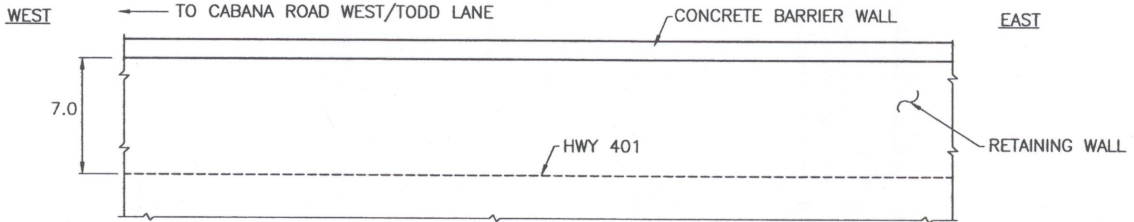
CROSS-SECTION SKETCH
1:400

LENGTH (m)	150	WIDTH (m)	----
STRUCTURAL DEPTH (m)	----	SPAN/DEPTH RATIO	----
SKIEW ANGLE	----	VERTICAL CLEARANCE (m)	----
UNIT PRICE (\$/m)	NEW STRUCTURE	45,000	ESTIMATED COST (\$)
	REHABILITATION	----	
COMMENTS (SPECIAL CONSTRUCTION & DESIGN FEATURES)	----		
NAME OF CONSULTANT (FOR PLANNING)	URS CANADA INC.	DATE	MAY 2007

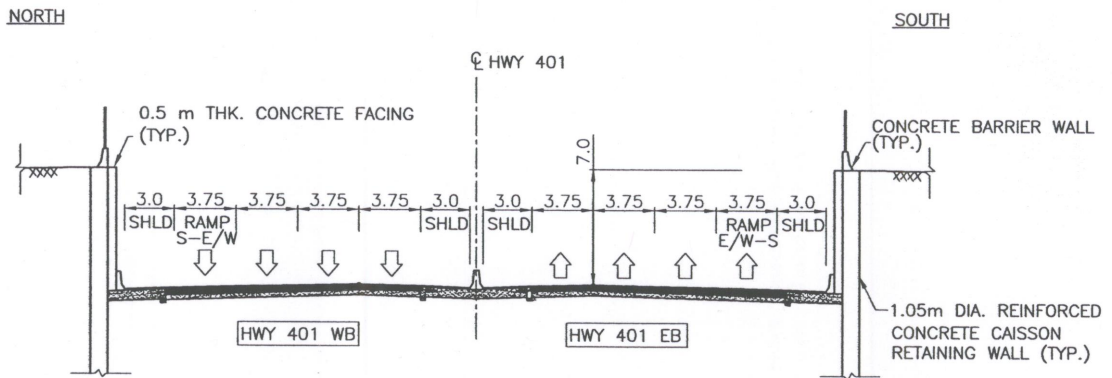
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STRUCTURAL PLANNING SHEET

W.O.NO.	----	CORRIDOR	HC-T	ROUTE	ALIGNMENT ALTERNATIVE 2B
STRUCTURE I.D.	2B-213	SITE NO.	----	LOCATION	HWY 401 AT WEST OF HURON CHURCH LINE
STRUCTURE NAME	BELOW GRADE HWY 401 WITH RAMPS AT WEST OF HURON CHURCH LINE		<input type="checkbox"/> EXISTING <input checked="" type="checkbox"/> NEW		<input type="checkbox"/> OVERPASS <input type="checkbox"/> UNDERPASS <input checked="" type="checkbox"/> BELOW GRADE HWY <input type="checkbox"/> APPROACH RAMP
STRUCTURE DESCRIPTION	BOAT SECTION WITH CAISSON RETAINING WALLS OF UNIFORM HEIGHTS				



ELEVATION SKETCH
1:400



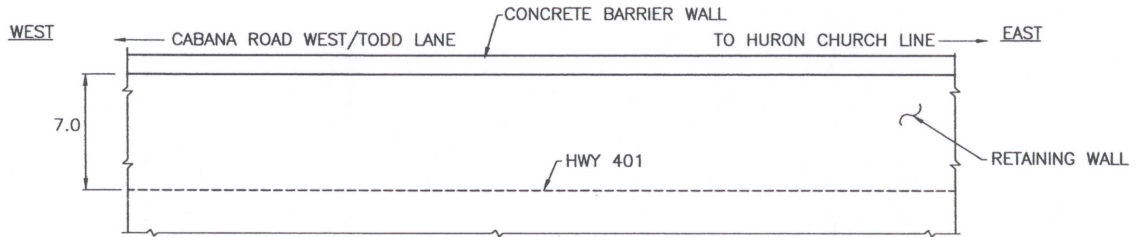
CROSS-SECTION SKETCH
1:400

LENGTH (m)	50		WIDTH (m)	----	
STRUCTURAL DEPTH (m)	----		SPAN/DEPTH RATIO	----	
SKEW ANGLE	----		VERTICAL CLEARANCE (m)	----	
UNIT PRICE (\$/m)	NEW STRUCTURE	45,000	ESTIMATED COST (\$)	2,250,000	
	REHABILITATION	----			
COMMENTS (SPECIAL CONSTRUCTION & DESIGN FEATURES)	----				
NAME OF CONSULTANT (FOR PLANNING)	URS CANADA INC.		DATE	MAY 2007	

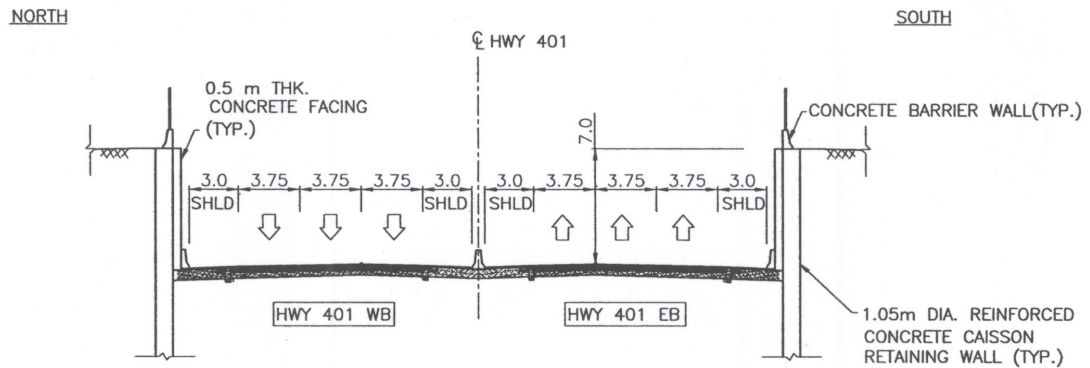
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 PLOTTED: Aug 06, 2007 - 12:04pm

STRUCTURAL PLANNING SHEET

W.O.NO.	----	CORRIDOR	HC-T	ROUTE	ALIGNMENT ALTERNATIVE 2B
STRUCTURE I.D.	2B-214	SITE NO.	----	LOCATION	HWY 401 AT EAST OF CABANA ROAD WEST/TODD LANE
STRUCTURE NAME	BELOW GRADE HWY 401 BETWEEN HURON CHURCH LINE AND CABANA ROAD WEST/TODD LANE			<input type="checkbox"/> EXISTING <input checked="" type="checkbox"/> NEW	<input type="checkbox"/> OVERPASS <input checked="" type="checkbox"/> BELOW GRADE HWY <input type="checkbox"/> UNDERPASS <input type="checkbox"/> APPROACH RAMP
STRUCTURE DESCRIPTION	BOAT SECTION WITH CAISSON RETAINING WALLS OF UNIFORM HEIGHTS				



ELEVATION SKETCH
1:400



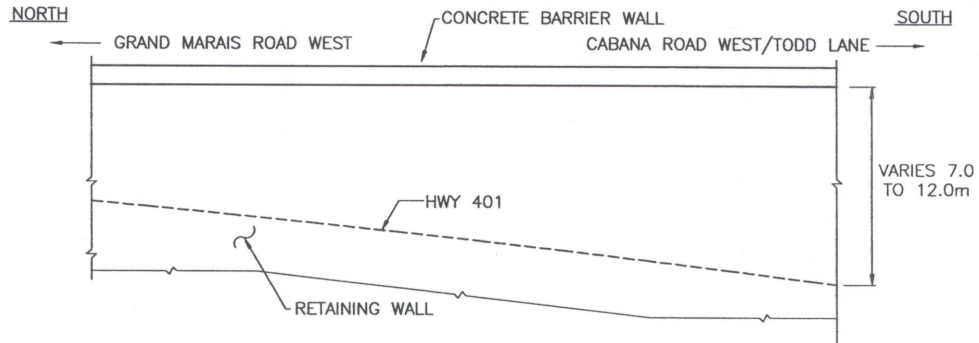
CROSS-SECTION SKETCH
1:400

LENGTH (m)	400	WIDTH (m)	----
STRUCTURAL DEPTH (m)	----	SPAN/DEPTH RATIO	----
SKEW ANGLE	----	VERTICAL CLEARANCE (m)	----
UNIT PRICE (\$/m)	NEW STRUCTURE	45,000	ESTIMATED COST (\$) 18,000,000
	REHABILITATION	----	
COMMENTS (SPECIAL CONSTRUCTION & DESIGN FEATURES)			
NAME OF CONSULTANT (FOR PLANNING)	URS CANADA INC.	DATE	MAY 2007

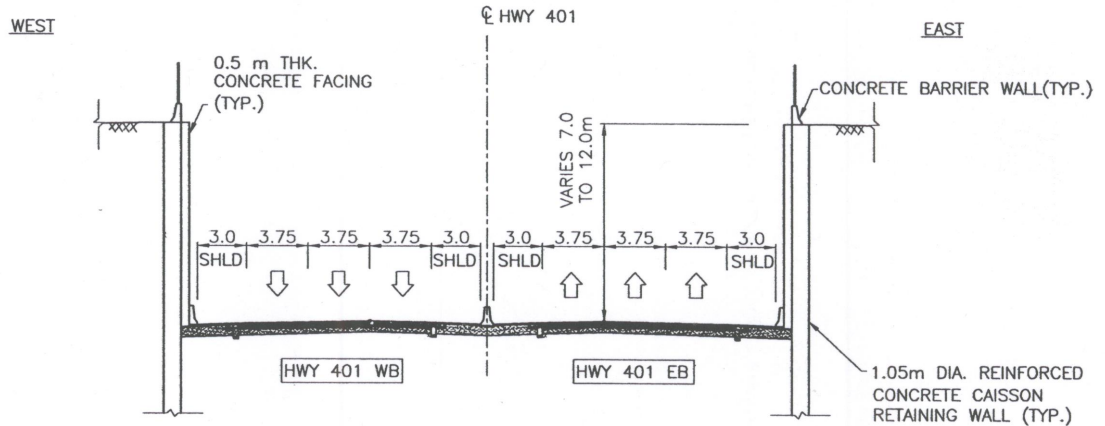
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STRUCTURAL PLANNING SHEET

W.O.NO.	----	CORRIDOR	HC-T	ROUTE	ALIGNMENT ALTERNATIVE 2B
STRUCTURE I.D.	2B-221	SITE NO.	----	LOCATION	HWY 401 AT WEST OF CABANA ROAD WEST/TODD LANE
STRUCTURE NAME	BELOW GRADE HWY 401 AT WEST OF CABANA ROAD WEST/TODD LANE		<input type="checkbox"/> EXISTING <input checked="" type="checkbox"/> NEW		<input type="checkbox"/> OVERPASS <input type="checkbox"/> UNDERPASS <input checked="" type="checkbox"/> BELOW GRADE HWY <input type="checkbox"/> APPROACH RAMP
STRUCTURE DESCRIPTION	BOAT SECTION WITH CAISSON RETAINING WALLS OF VARIABLE HEIGHTS				



ELEVATION SKETCH
1:400



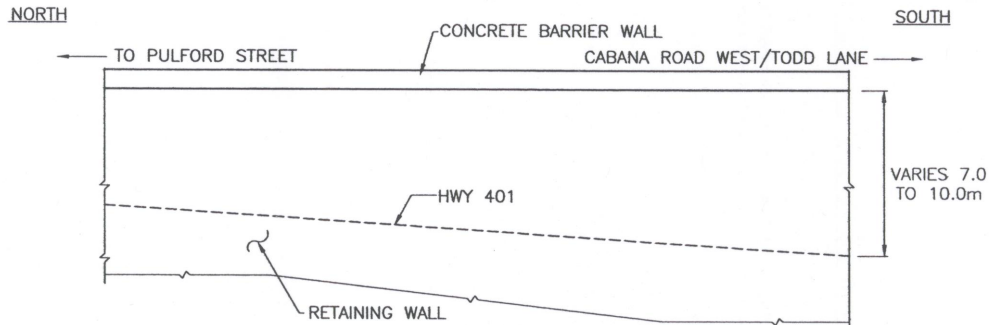
CROSS-SECTION SKETCH
1:400

LENGTH (m)	100		WIDTH (m)	----	
STRUCTURAL DEPTH (m)	----		SPAN/DEPTH RATIO	----	
SKEW ANGLE	----		VERTICAL CLEARANCE (m)	----	
UNIT PRICE (\$/m)	NEW STRUCTURE	65,000	ESTIMATED COST (\$)	6,500,000	
	REHABILITATION	----			
COMMENTS (SPECIAL CONSTRUCTION & DESIGN FEATURES)					
NAME OF CONSULTANT (FOR PLANNING)	URS CANADA INC.		DATE	MAY 2007	

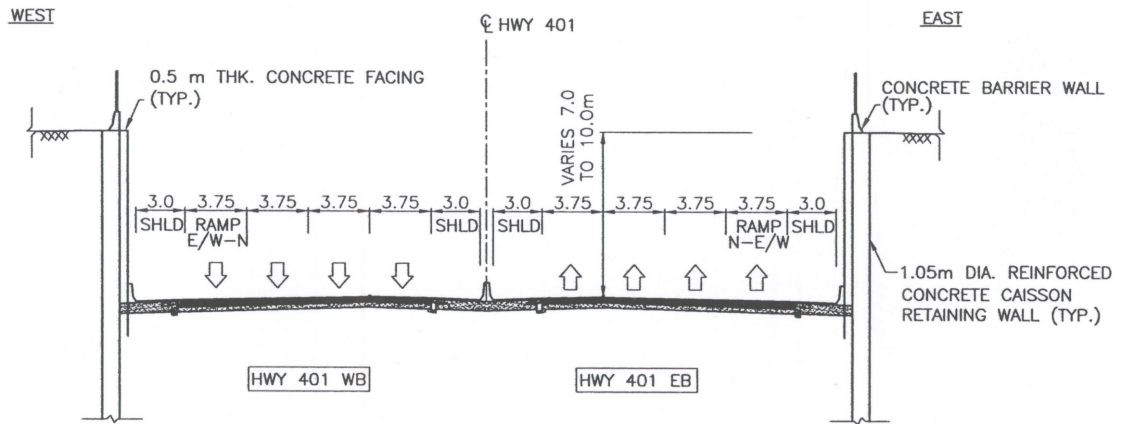
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 PLOTDATE: Aug 08, 2007 - 12:05pm

STRUCTURAL PLANNING SHEET

W.O.NO.	----	CORRIDOR	HC-T	ROUTE	ALIGNMENT ALTERNATIVE 2B
STRUCTURE I.D.	2B-222	SITE NO.	----	LOCATION	HWY 401 AT EAST OF PULFORD STREET
STRUCTURE NAME	BELOW GRADE DEEPER HWY 401 WITH RAMPS BETWEEN CABANA ROAD WEST/TODD LANE AND PULFORD STREET			<input type="checkbox"/> EXISTING <input checked="" type="checkbox"/> NEW	<input type="checkbox"/> OVERPASS <input type="checkbox"/> UNDERPASS <input checked="" type="checkbox"/> BELOW GRADE HWY <input type="checkbox"/> APPROACH RAMP
STRUCTURE DESCRIPTION	BOAT SECTION WITH CAISSON RETAINING WALLS OF VARIABLE HEIGHTS				



ELEVATION SKETCH
1:400



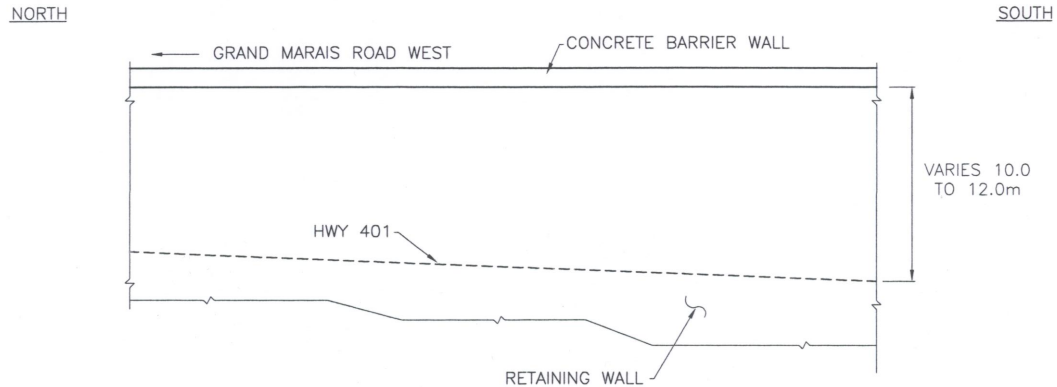
CROSS-SECTION SKETCH
1:400

LENGTH (m)	300		WIDTH (m)	----	
STRUCTURAL DEPTH (m)	----		SPAN/DEPTH RATIO	----	
SKEW ANGLE	----		VERTICAL CLEARANCE (m)	----	
UNIT PRICE (\$/m)	NEW STRUCTURE	65,000	ESTIMATED COST (\$)	19,500,000	
	REHABILITATION	----			
COMMENTS (SPECIAL CONSTRUCTION & DESIGN FEATURES)	----				
NAME OF CONSULTANT (FOR PLANNING)	URS CANADA INC.		DATE	MAY 2007	

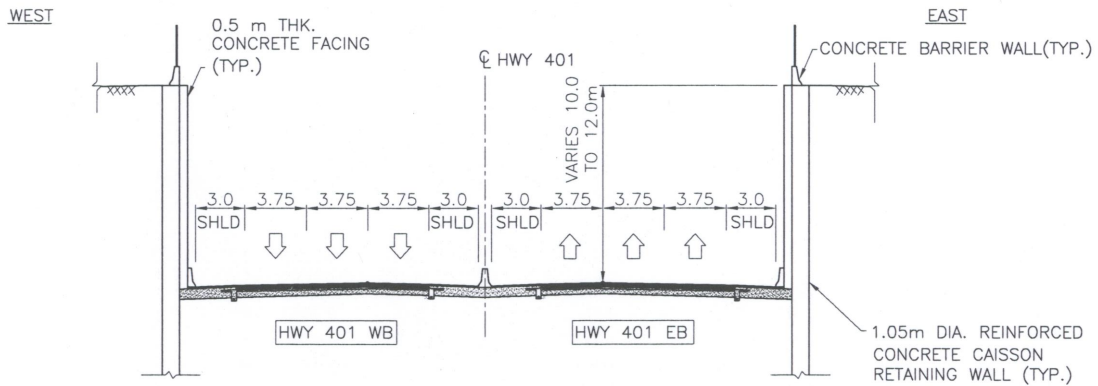
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 PLOT DATE: Aug 06, 2007 - 12:09pm

STRUCTURAL PLANNING SHEET

W.O.NO.	----	CORRIDOR	HC-T	ROUTE	ALIGNMENT ALTERNATIVE 2B
STRUCTURE I.D.	2B-223	SITE NO.	----	LOCATION	HWY 401 AT EAST OF GRAND MARAIS ROAD WEST
STRUCTURE NAME	BELOW GRADE DEEPER HWY 401 AT EAST OF GRAND MARAIS ROAD WEST			<input type="checkbox"/> EXISTING <input checked="" type="checkbox"/> NEW	<input type="checkbox"/> OVERPASS <input type="checkbox"/> UNDERPASS <input checked="" type="checkbox"/> BELOW GRADE HWY <input type="checkbox"/> APPROACH RAMP
STRUCTURE DESCRIPTION	BOAT SECTION WITH CAISSON RETAINING WALLS OF VARIABLE HEIGHTS				



ELEVATION SKETCH
1:400



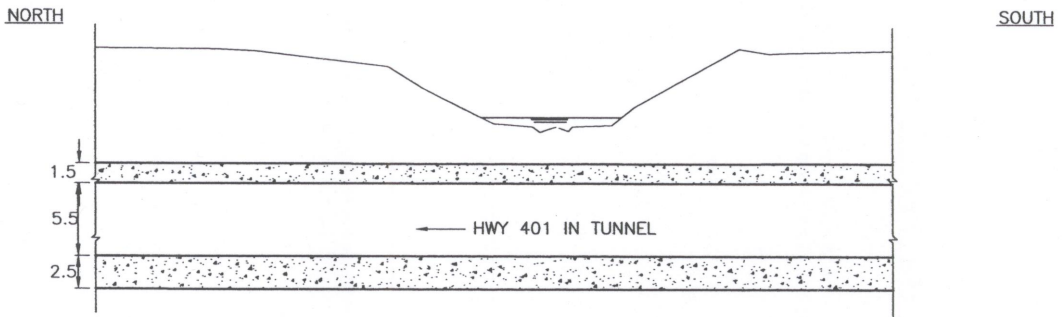
CROSS-SECTION SKETCH
1:400

LENGTH (m)	800		WIDTH (m)	----	
STRUCTURAL DEPTH (m)	----		SPAN/DEPTH RATIO	----	
SKEW ANGLE	----		VERTICAL CLEARANCE (m)	----	
UNIT PRICE (\$/m)	NEW STRUCTURE	75,000	ESTIMATED COST (\$)	60,000,000	
	REHABILITATION	----			
COMMENTS (SPECIAL CONSTRUCTION & DESIGN FEATURES)	----				
NAME OF CONSULTANT (FOR PLANNING)	URS CANADA INC.		DATE	MAY 2007	

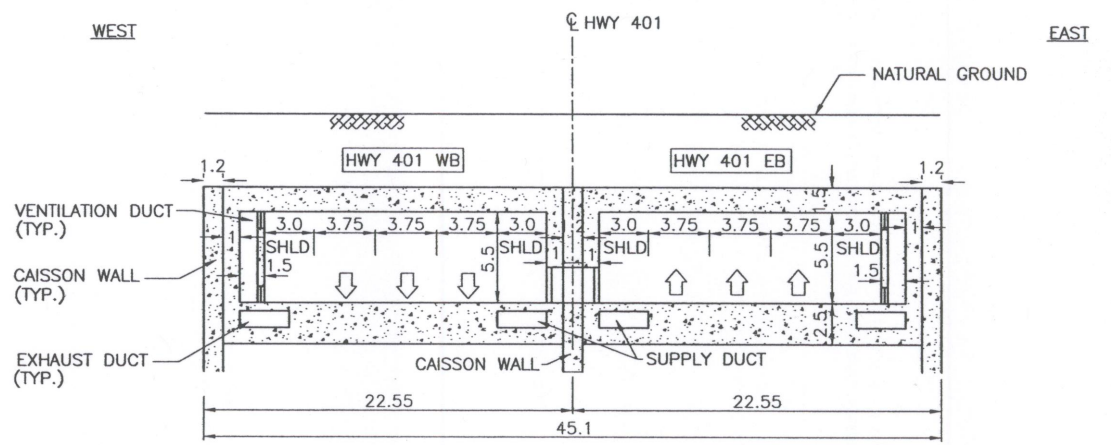
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STRUCTURAL PLANNING SHEET

W.O.NO.	----	CORRIDOR	HC-T	ROUTE	ALIGNMENT ALTERNATIVE 2B
STRUCTURE I.D.	2B-224	SITE NO.	----	LOCATION	HWY 401 CROSSING UNDER TURKEY CREEK
BRIDGE NAME	HIGHWAY 401 IN TUNNEL UNDER TURKEY CREEK			<input type="checkbox"/> EXISTING <input checked="" type="checkbox"/> NEW	<input type="checkbox"/> OVERPASS <input type="checkbox"/> UNDERPASS
STRUCTURE DESCRIPTION	CUT AND COVER TUNNEL				



ELEVATION SKETCH
1:500



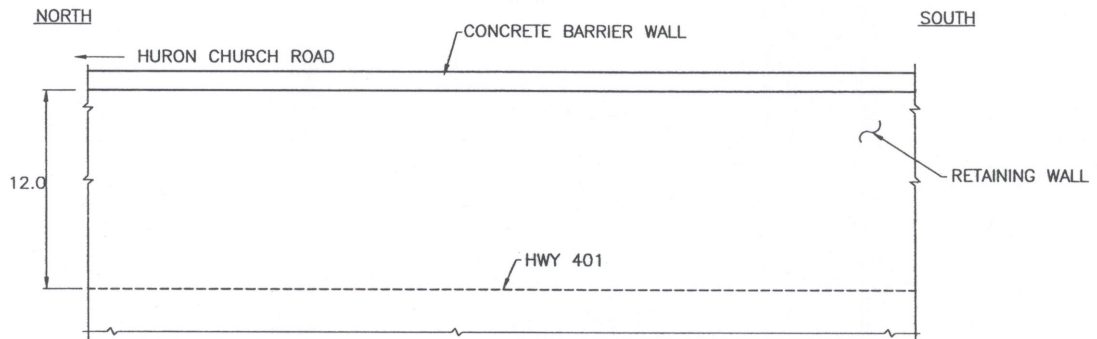
CROSS-SECTION SKETCH
1:500

LENGTH (m)	100	WIDTH (m)	--
STRUCTURAL DEPTH (m)	--	SPAN/DEPTH RATIO	--
SKEW ANGLE	--	VERTICAL CLEARANCE (m)	--
UNIT PRICE (\$/m)	NEW STRUCTURE	222,000	ESTIMATED COST (\$) 22,200,000
	REHABILITATION	----	
COMMENTS (SPECIAL CONSTRUCTION & DESIGN FEATURES)	THE COST INCLUDES THE STAGE CONSTRUCTION TO MAINTAIN THE WATER FLOW AT TURKEY CREEK		
NAME OF CONSULTANT (FOR PLANNING)	URS CANADA INC.	DATE	MAY 2007

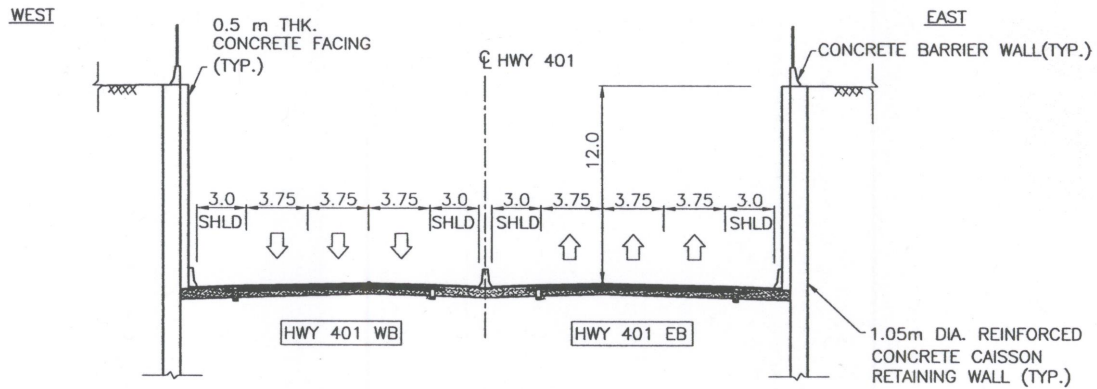
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STRUCTURAL PLANNING SHEET

W.O.NO.	----	CORRIDOR	HC-T	ROUTE	ALIGNMENT ALTERNATIVE 2B
STRUCTURE I.D.	2B-231	SITE NO.	----	LOCATION	HWY 401 AT WEST OF GRAND MARAIS ROAD WEST
STRUCTURE NAME	BELOW GRADE HWY 401 AT WEST OF GRAND MARAIS ROAD WEST		<input type="checkbox"/> EXISTING <input checked="" type="checkbox"/> NEW		<input type="checkbox"/> OVERPASS <input type="checkbox"/> UNDERPASS <input checked="" type="checkbox"/> BELOW GRADE HWY <input type="checkbox"/> APPROACH RAMP
STRUCTURE DESCRIPTION	BOAT SECTION WITH CAISSON RETAINING WALLS OF UNIFORM HEIGHTS				



ELEVATION SKETCH
1:400



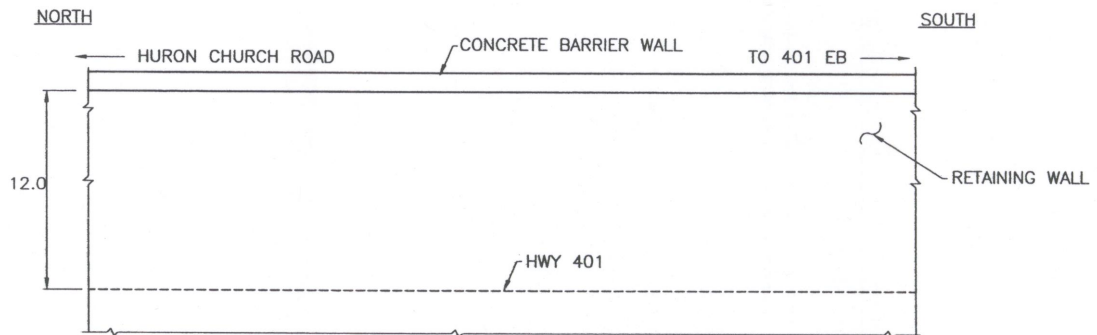
CROSS-SECTION SKETCH
1:400

LENGTH (m)	150	WIDTH (m)	----
STRUCTURAL DEPTH (m)	----	SPAN/DEPTH RATIO	----
SKEW ANGLE	----	VERTICAL CLEARANCE (m)	----
UNIT PRICE (\$/m)	NEW STRUCTURE	65,000	ESTIMATED COST (\$)
	REHABILITATION	----	
COMMENTS (SPECIAL CONSTRUCTION & DESIGN FEATURES)	----		
NAME OF CONSULTANT (FOR PLANNING)	URS CANADA INC.	DATE	MAY 2007

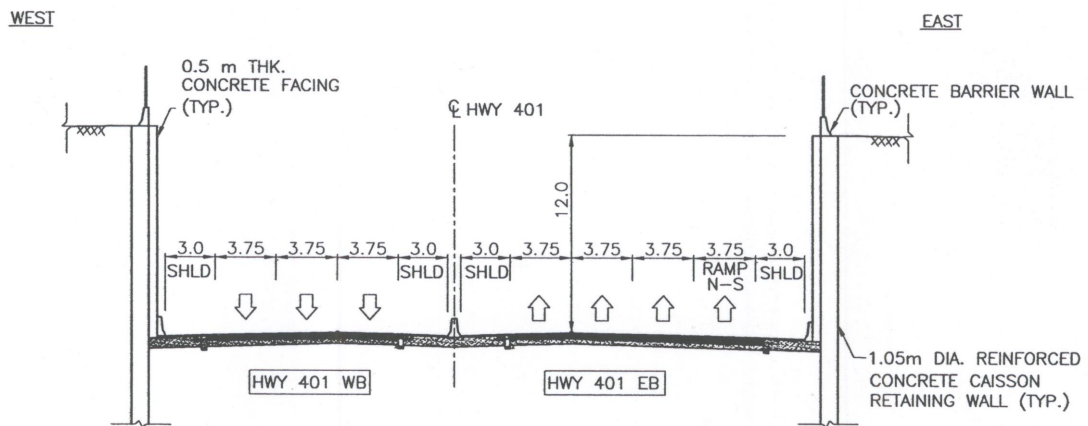
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STRUCTURAL PLANNING SHEET

W.O.NO.	----	CORRIDOR	HC-T	ROUTE	ALIGNMENT ALTERNATIVE 2B
STRUCTURE I.D.	2B-232	SITE NO.	----	LOCATION	HWY 401 AT WEST OF GRAND MARAIS ROAD WEST
STRUCTURE NAME	BELOW GRADE HWY 401 WITH RAMP AT WEST OF GRAND MARAIS ROAD WEST		<input type="checkbox"/> EXISTING <input checked="" type="checkbox"/> NEW		<input type="checkbox"/> OVERPASS <input type="checkbox"/> UNDERPASS <input checked="" type="checkbox"/> BELOW GRADE HWY <input type="checkbox"/> APPROACH RAMP
STRUCTURE DESCRIPTION	BOAT SECTION WITH CAISSON RETAINING WALLS OF UNIFORM HEIGHTS				



ELEVATION SKETCH
1:400



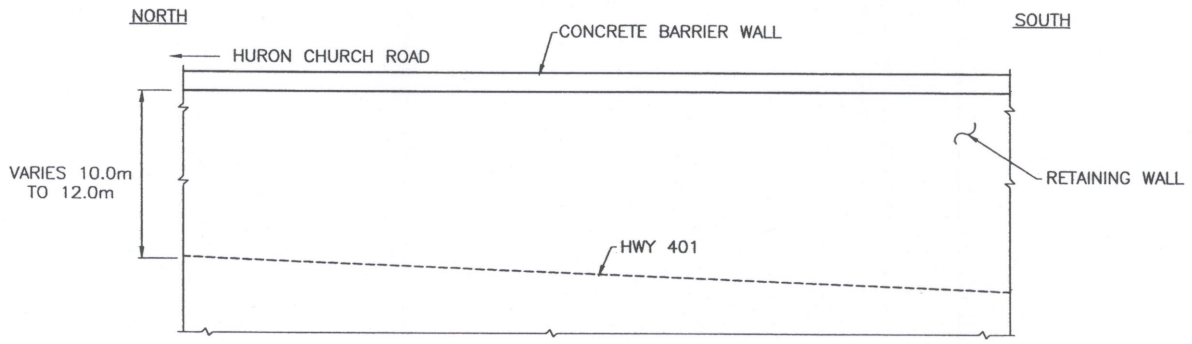
CROSS-SECTION SKETCH
1:400

LENGTH (m)	150	WIDTH (m)	----
STRUCTURAL DEPTH (m)	----	SPAN/DEPTH RATIO	----
SKEW ANGLE	----	VERTICAL CLEARANCE (m)	----
UNIT PRICE (\$/m)	NEW STRUCTURE	65,000	ESTIMATED COST (\$)
	REHABILITATION	----	
COMMENTS (SPECIAL CONSTRUCTION & DESIGN FEATURES)	----		
NAME OF CONSULTANT (FOR PLANNING)	URS CANADA INC.	DATE	MAY 2007

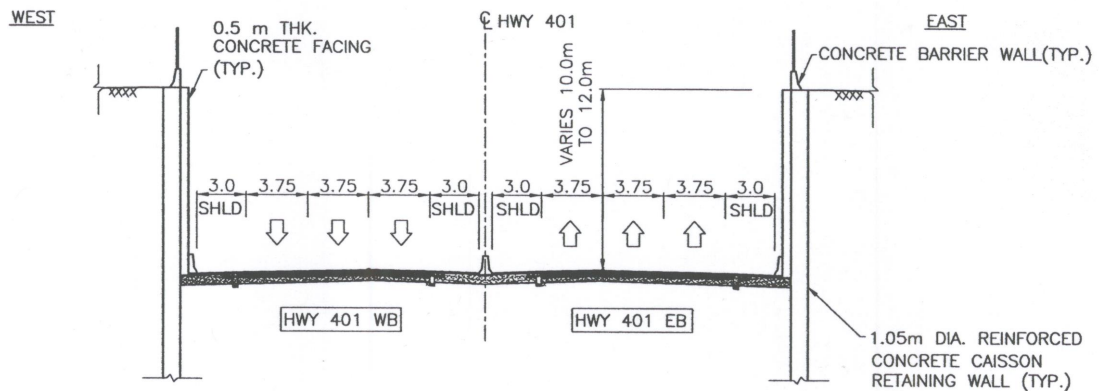
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 PLOTTED: Aug 06, 2007 - 12:05pm

STRUCTURAL PLANNING SHEET

W.O.NO.	----	CORRIDOR	HC-T	ROUTE	ALIGNMENT ALTERNATIVE 2B
STRUCTURE I.D.	2B-233	SITE NO.	----	LOCATION	HWY 401 AT SOUTH OF HURON CHURCH ROAD
STRUCTURE NAME	BELOW GRADE DEEPER HWY 401 AT WEST OF GRAND MARAIS ROAD WEST			<input type="checkbox"/> EXISTING <input checked="" type="checkbox"/> NEW	<input type="checkbox"/> OVERPASS <input type="checkbox"/> UNDERPASS <input checked="" type="checkbox"/> BELOW GRADE HWY <input type="checkbox"/> APPROACH RAMP
STRUCTURE DESCRIPTION	BOAT SECTION WITH CAISSON RETAINING WALLS OF VARIABLE HEIGHTS				



ELEVATION SKETCH
1:400



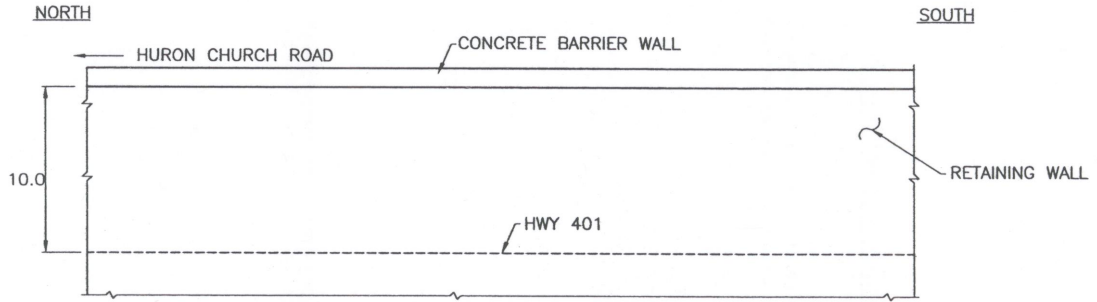
CROSS-SECTION SKETCH
1:400

LENGTH (m)	150	WIDTH (m)	----	
STRUCTURAL DEPTH (m)	----	SPAN/DEPTH RATIO	----	
SKEW ANGLE	----	VERTICAL CLEARANCE (m)	----	
UNIT PRICE (\$/m)	NEW STRUCTURE	65,000	ESTIMATED COST (\$)	9,750,000
	REHABILITATION	----		
COMMENTS (SPECIAL CONSTRUCTION & DESIGN FEATURES)	----			
NAME OF CONSULTANT (FOR PLANNING)	URS CANADA INC.	DATE	MAY 2007	

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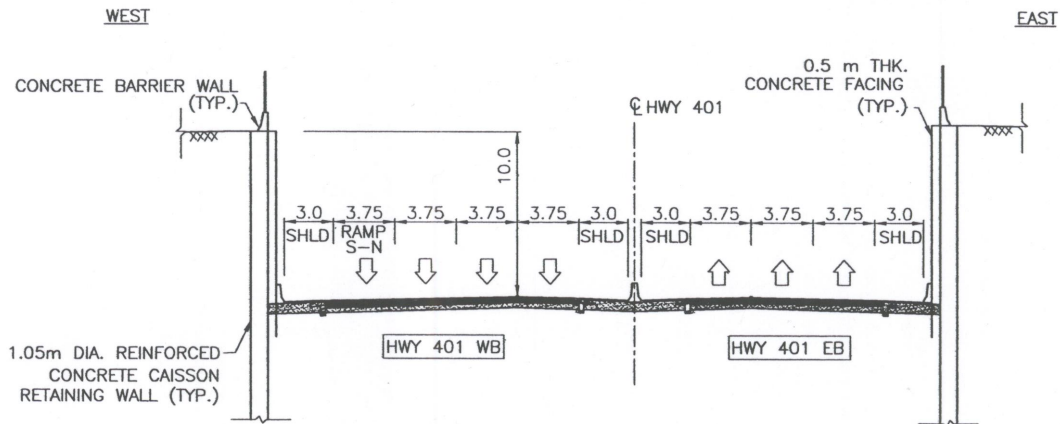
STRUCTURAL PLANNING SHEET

W.O.NO.	----	CORRIDOR	HC-T	ROUTE	ALIGNMENT ALTERNATIVE 2B	
STRUCTURE I.D.	2B-234	SITE NO.	----	LOCATION	HWY 401 AT SOUTH OF HURON CHURCH ROAD	
STRUCTURE NAME	BELOW GRADE HWY 401 WITH RAMP AT WEST OF GRAND MARAIS ROAD WEST			<input type="checkbox"/> EXISTING <input checked="" type="checkbox"/> NEW	<input type="checkbox"/> OVERPASS <input type="checkbox"/> UNDERPASS	<input checked="" type="checkbox"/> BELOW GRADE HWY <input type="checkbox"/> APPROACH RAMP
STRUCTURE DESCRIPTION	BOAT SECTION WITH CAISSON RETAINING WALLS OF UNIFORM HEIGHTS					



ELEVATION SKETCH

1:400



CROSS-SECTION SKETCH

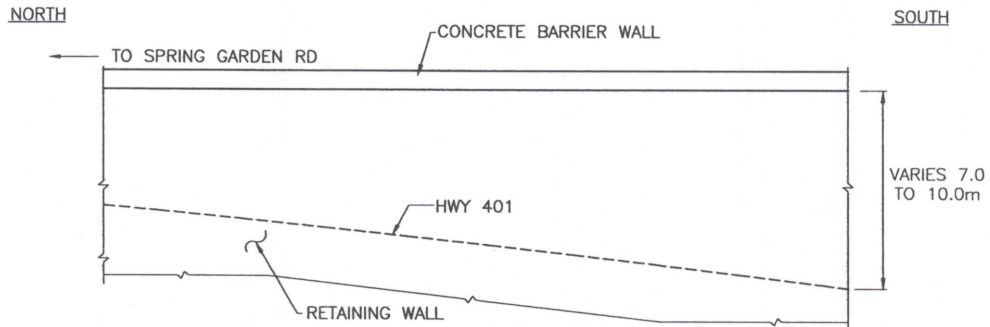
1:400

LENGTH (m)	100	WIDTH (m)	----
STRUCTURAL DEPTH (m)	----	SPAN/DEPTH RATIO	----
SKEW ANGLE	----	VERTICAL CLEARANCE (m)	----
UNIT PRICE (\$/m)	NEW STRUCTURE	65,000	ESTIMATED COST (\$) 6,500,000
	REHABILITATION	----	
COMMENTS (SPECIAL CONSTRUCTION & DESIGN FEATURES)	----		
NAME OF CONSULTANT (FOR PLANNING)	URS CANADA INC.	DATE	MAY 2007

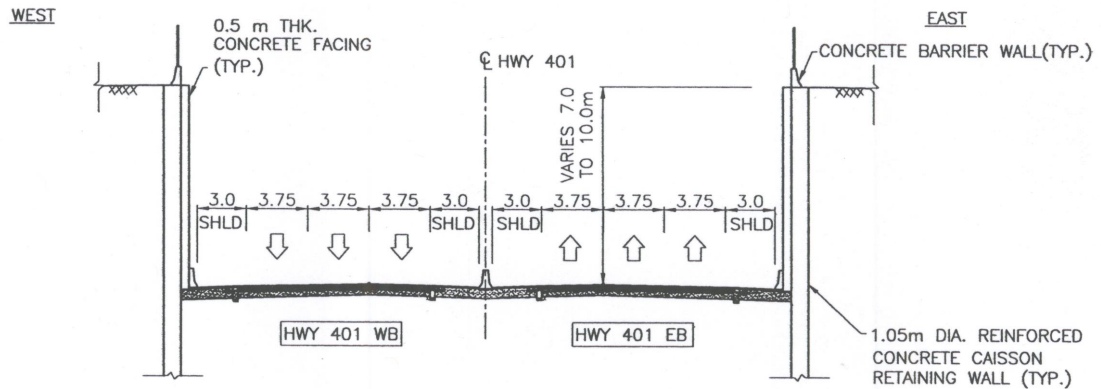
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STRUCTURAL PLANNING SHEET

W.O.NO.	----	CORRIDOR	HC-T	ROUTE	ALIGNMENT ALTERNATIVE 2B
STRUCTURE I.D.	2B-235	SITE NO.	----	LOCATION	HWY 401 AT SOUTH OF HURON CHURCH ROAD
STRUCTURE NAME	BELOW GRADE HWY 401 AT SOUTH OF HURON CHURCH ROAD			<input type="checkbox"/> EXISTING <input checked="" type="checkbox"/> NEW	<input type="checkbox"/> OVERPASS <input type="checkbox"/> UNDERPASS <input checked="" type="checkbox"/> BELOW GRADE HWY <input type="checkbox"/> APPROACH RAMP
STRUCTURE DESCRIPTION	BOAT SECTION WITH CAISSON RETAINING WALLS OF VARIABLE HEIGHTS				



ELEVATION SKETCH
1:400



CROSS-SECTION SKETCH
1:400

LENGTH (m)	175		WIDTH (m)	----	
STRUCTURAL DEPTH (m)	----		SPAN/DEPTH RATIO	----	
SKEW ANGLE	----		VERTICAL CLEARANCE (m)	----	
UNIT PRICE (\$/m)	NEW STRUCTURE	65,000	ESTIMATED COST (\$)	11,375,000	
	REHABILITATION	----			
COMMENTS (SPECIAL CONSTRUCTION & DESIGN FEATURES)	----				
NAME OF CONSULTANT (FOR PLANNING)	URS CANADA INC.		DATE	MAY 2007	

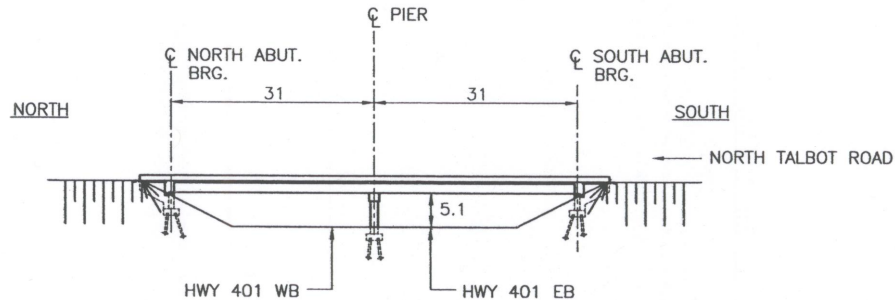
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Appendix C.5

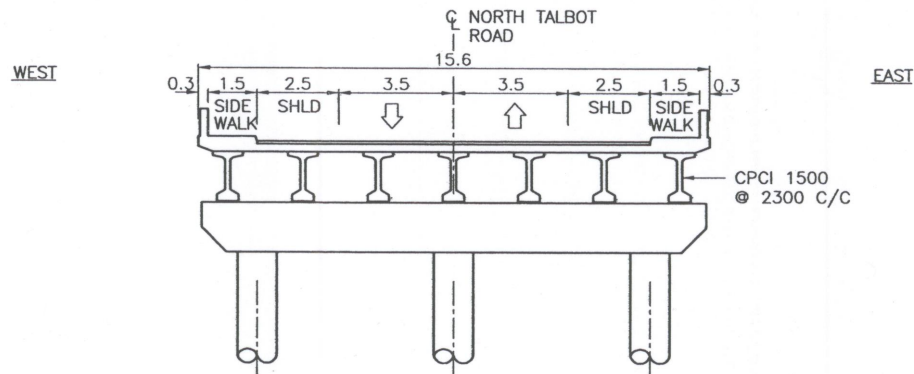
Structural Planning Sheets for Alternative 3

STRUCTURAL PLANNING SHEET

W.O.NO.	----	CORRIDOR	HC-T	ROUTE	ALIGNMENT ALTERNATIVE 3
STRUCTURE I.D.	3-5	SITE NO.	----	LOCATION	NORTH TALBOT ROAD ABOVE HWY 401
BRIDGE NAME	NORTH TALBOT ROAD UNDERPASS			<input type="checkbox"/> EXISTING <input checked="" type="checkbox"/> NEW	<input type="checkbox"/> OVERPASS <input type="checkbox"/> BELOW GRADE HWY <input checked="" type="checkbox"/> UNDERPASS <input type="checkbox"/> APPROACH RAMP
STRUCTURE DESCRIPTION	TWO SPANS CPCI 1500 GIRDERS WITH SEMI-INTEGRAL ABUTMENTS				



ELEVATION SKETCH
1:1000



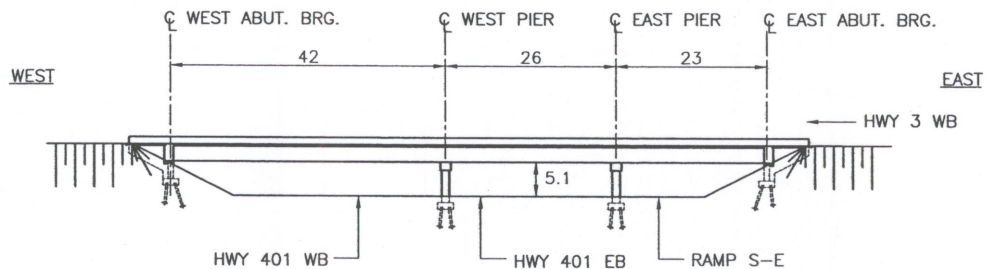
CROSS-SECTION SKETCH
1:200

LENGTH (m)	62	WIDTH (m)	15.60
STRUCTURAL DEPTH (m)	1.8	SPAN/DEPTH RATIO	17
SKEW ANGLE	30°	VERTICAL CLEARANCE (m)	5.1
UNIT PRICE (\$/m ²)	NEW STRUCTURE	2,100	ESTIMATED COST (\$) 2,031,000
	REHABILITATION	----	
COMMENTS (SPECIAL CONSTRUCTION & DESIGN FEATURES)	<ul style="list-style-type: none"> - SEMI-INTEGRAL ABUTMENTS DUE TO 30° SKEW - EXISTING BRIDGE NEEDS TO BE REMOVED. - NORTH TALBOT ROAD NEEDS TO BE DIVERTED DURING THE CONSTRUCTION OR AFTER THE CONSTRUCTION OF THE NEW BRIDGE ON ADJACENT SITE. 		
NAME OF CONSULTANT (FOR PLANNING)	URS CANADA INC.	DATE	MAY 2007

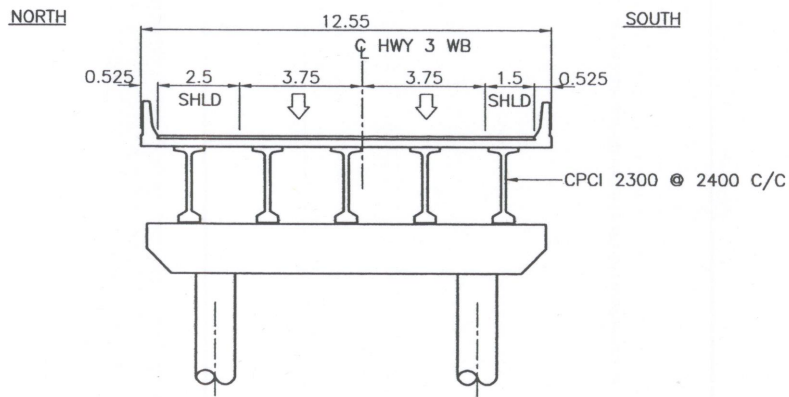
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 PLOTDATE: Aug 06, 2007 12:15pm

STRUCTURAL PLANNING SHEET

W.O.NO.	----	CORRIDOR	HC-T	ROUTE	ALIGNMENT ALTERNATIVE 3
STRUCTURE I.D.	3-10	SITE NO.	----	LOCATION	HWY 3 OVER HWY 401
BRIDGE NAME	HIGHWAY 3 WB UNDERPASS			<input type="checkbox"/> EXISTING <input checked="" type="checkbox"/> NEW	<input type="checkbox"/> OVERPASS <input type="checkbox"/> BELOW GRADE HWY <input checked="" type="checkbox"/> UNDERPASS <input type="checkbox"/> APPROACH RAMP
STRUCTURE DESCRIPTION	THREE SPANS CPCI 2300 GIRDERS WITH SEMI-INTEGRAL ABUTMENTS				



ELEVATION SKETCH
1:1000



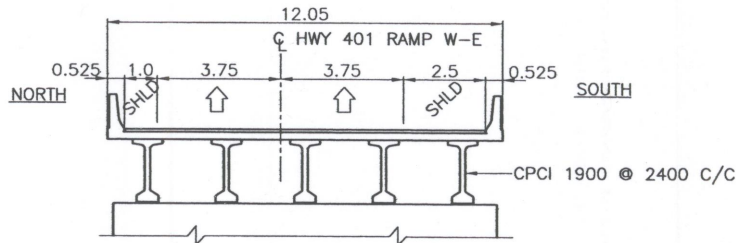
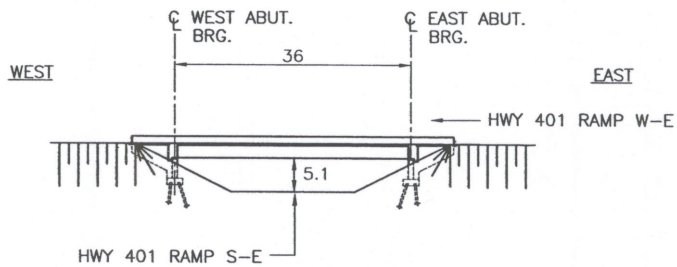
CROSS-SECTION SKETCH
1:200

LENGTH (m)	91	WIDTH (m)	12.55
STRUCTURAL DEPTH (m)	2.6	SPAN/DEPTH RATIO	16
SKEW ANGLE	40°	VERTICAL CLEARANCE (m)	5.1
UNIT PRICE (\$/m ²)	NEW STRUCTURE	2,100	ESTIMATED COST (\$) 2,398,000
	REHABILITATION	----	
COMMENTS (SPECIAL CONSTRUCTION & DESIGN FEATURES)	SEMI-INTEGRAL ABUTMENTS DUE TO 40° SKEW.		
NAME OF CONSULTANT (FOR PLANNING)	URS CANADA INC.	DATE	MAY 2007

FILENAME: O:\PRIC\13_Structure\CADD\Planning Sheets\Hwy Alternatives\2007\Bridges\Alt-05-May15-2007\Bridges\Alternative-3-May15-2007.dwg
 PLOTTED: Aug 06, 2007 - 12:15pm

STRUCTURAL PLANNING SHEET

W.O.NO.	----	CORRIDOR	HC-T	ROUTE	ALIGNMENT ALTERNATIVE 3
STRUCTURE I.D.	3-11	SITE NO.	----	LOCATION	HWY 401 RAMP W-E OVER RAMP S-E
BRIDGE NAME	RAMP W-E UNDERPASS			<input type="checkbox"/> EXISTING <input checked="" type="checkbox"/> NEW	<input type="checkbox"/> OVERPASS <input type="checkbox"/> BELOW GRADE HWY <input checked="" type="checkbox"/> UNDERPASS <input type="checkbox"/> APPROACH RAMP
STRUCTURE DESCRIPTION	SINGLE SPAN CPCI 1900 GIRDERS WITH SEMI-INTEGRAL ABUTMENTS				

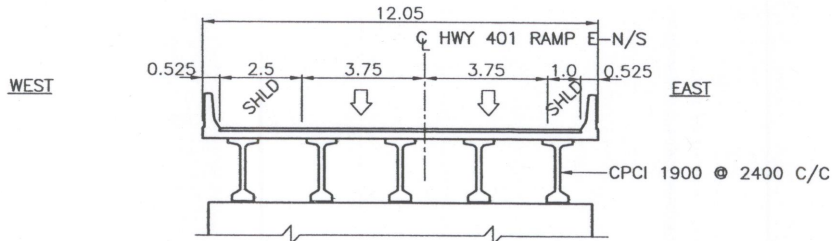
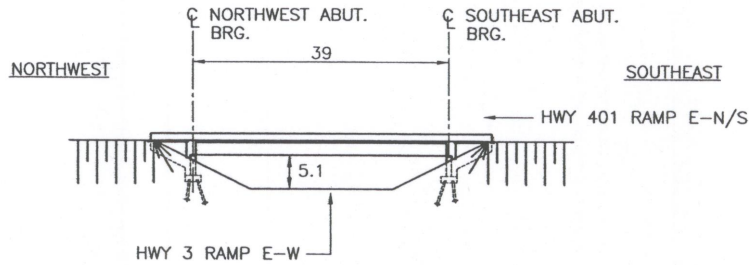


LENGTH (m)	36	WIDTH (m)	12.05	
STRUCTURAL DEPTH (m)	2.2	SPAN/DEPTH RATIO	16	
SKEW ANGLE	50°	VERTICAL CLEARANCE (m)	5.1	
UNIT PRICE (\$/m ²)	NEW STRUCTURE	2,100	ESTIMATED COST (\$)	911,000
	REHABILITATION	----		
COMMENTS (SPECIAL CONSTRUCTION & DESIGN FEATURES)	SEMI-INTEGRAL ABUTMENTS DUE TO 50° SKEW			
NAME OF CONSULTANT (FOR PLANNING)	URS CANADA INC.	DATE	MAY 2007	

FILENAME: C:\DRCA\16_Structure\GDD\Planning Sheets\ Hwy Alternatives\2007\ Bridge-At-05-May15-2007\ BridgeAlternative-3-May15-2007.dwg
 PLOTDATE: Aug 08, 2007 - 12:15pm

STRUCTURAL PLANNING SHEET

W.O.NO.	----	CORRIDOR	HC-T	ROUTE	ALIGNMENT ALTERNATIVE 3
STRUCTURE I.D.	3-12	SITE NO.	----	LOCATION	HWY 401 RAMP E-N/S OVER RAMP E-W
BRIDGE NAME	HWY 401 RAMP E-N/S OVERPASS			<input type="checkbox"/> EXISTING <input checked="" type="checkbox"/> NEW	<input type="checkbox"/> OVERPASS <input type="checkbox"/> BELOW GRADE HWY <input checked="" type="checkbox"/> UNDERPASS <input type="checkbox"/> APPROACH RAMP
STRUCTURE DESCRIPTION	SINGLE SPAN CPCI 1900 GIRDERS WITH SEMI-INTEGRAL ABUTMENTS				

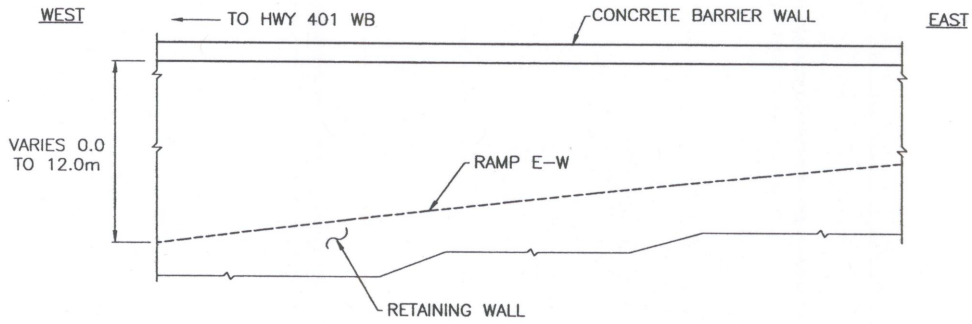


LENGTH (m)	39	WIDTH (m)	12.05	
STRUCTURAL DEPTH (m)	2.2	SPAN/DEPTH RATIO	18	
SKEW ANGLE	50°	VERTICAL CLEARANCE (m)	5.1	
UNIT PRICE (\$/m ²)	NEW STRUCTURE	2,100	ESTIMATED COST (\$)	987,000
	REHABILITATION	----		
COMMENTS (SPECIAL CONSTRUCTION & DESIGN FEATURES)	SEMI-INTEGRAL ABUTMENTS DUE TO 50° SKEW			
NAME OF CONSULTANT (FOR PLANNING)	URS CANADA INC.	DATE	MAY 2007	

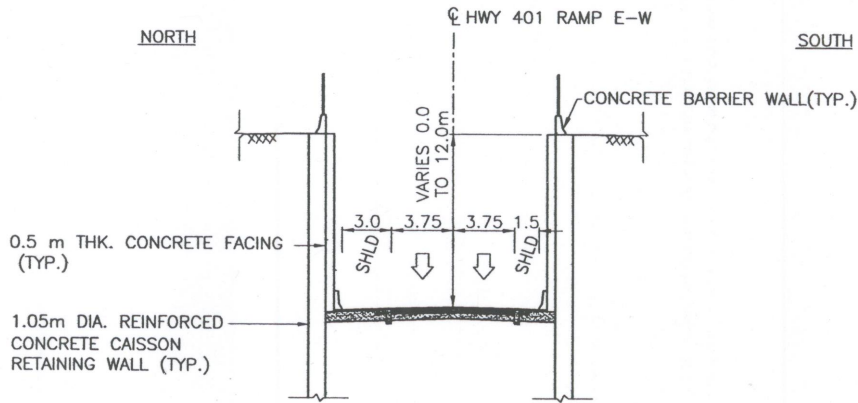
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 PLOTTED: Aug 06, 2007 - 12:15pm

STRUCTURAL PLANNING SHEET

W.O.NO.	----	CORRIDOR	HC-T	ROUTE	ALIGNMENT ALTERNATIVE 3
STRUCTURE I.D.	3-13	SITE NO.	----	LOCATION	HWY 401 AT EAST OF HOWARD AVENUE
STRUCTURE NAME	APPROACH RAMP OF HWY 401 RAMP E-W AT EAST OF HOWARD AVENUE			<input type="checkbox"/> EXISTING <input checked="" type="checkbox"/> NEW	<input type="checkbox"/> OVERPASS <input type="checkbox"/> UNDERPASS <input type="checkbox"/> BELOW GRADE HWY <input checked="" type="checkbox"/> APPROACH RAMP
STRUCTURE DESCRIPTION	BOAT SECTION WITH CAISSON RETAINING WALLS OF VARIABLE HEIGHTS				



ELEVATION SKETCH
1:400



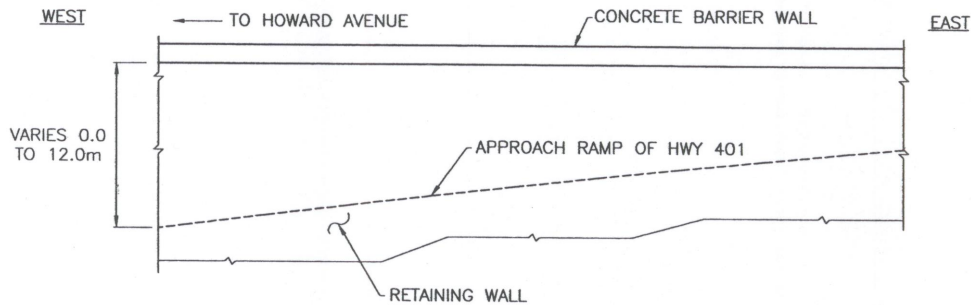
CROSS-SECTION SKETCH
1:400

LENGTH (m)	425	WIDTH (m)	----
STRUCTURAL DEPTH (m)	----	SPAN/DEPTH RATIO	----
SKEW ANGLE	----	VERTICAL CLEARANCE (m)	----
UNIT PRICE (\$/m)	NEW STRUCTURE	45,000	ESTIMATED COST (\$) 19,125,000
	REHABILITATION	----	
COMMENTS (SPECIAL CONSTRUCTION & DESIGN FEATURES)	----		
NAME OF CONSULTANT (FOR PLANNING)	URS CANADA INC.	DATE	MAY 2007

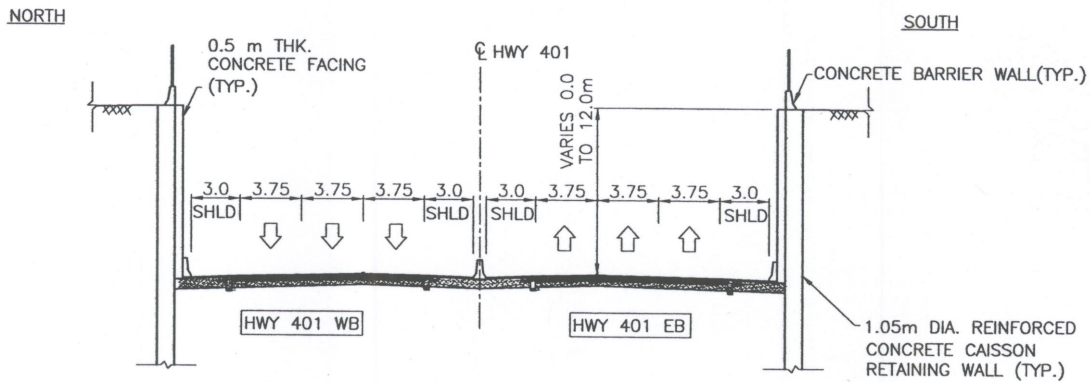
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 PLOTDATE: Aug 06, 2007 - 12:19pm

STRUCTURAL PLANNING SHEET

W.O.NO.	----	CORRIDOR	HC-T	ROUTE	ALIGNMENT ALTERNATIVE 3
STRUCTURE I.D.	3-20	SITE NO.	----	LOCATION	HWY 401 RAMP AT EAST OF HOWARD AVENUE
STRUCTURE NAME	APPROACH RAMP OF HWY 401 AT EAST OF HOWARD AVENUE			<input type="checkbox"/> EXISTING <input checked="" type="checkbox"/> NEW	<input type="checkbox"/> OVERPASS <input type="checkbox"/> UNDERPASS <input type="checkbox"/> BELOW GRADE HWY <input checked="" type="checkbox"/> APPROACH RAMP
STRUCTURE DESCRIPTION	BOAT SECTION WITH CAISSON RETAINING WALLS OF VARIABLE HEIGHTS				



ELEVATION SKETCH
1:400



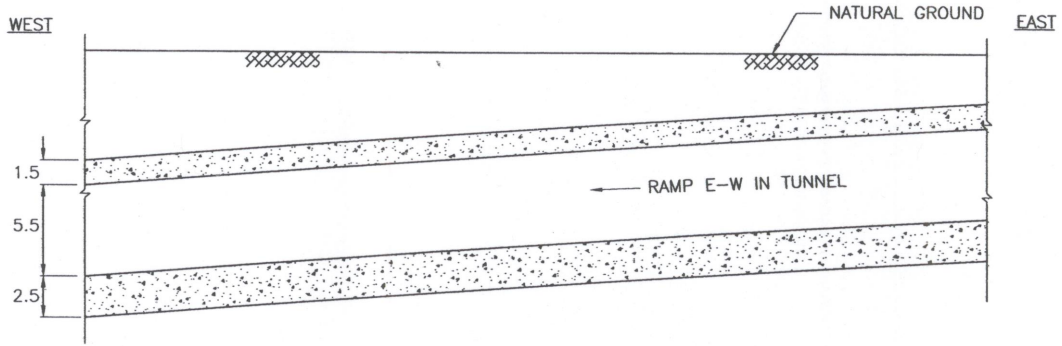
CROSS-SECTION SKETCH
1:400

LENGTH (m)	750		WIDTH (m)	----
STRUCTURAL DEPTH (m)	----		SPAN/DEPTH RATIO	----
SKEW ANGLE	----		VERTICAL CLEARANCE (m)	----
UNIT PRICE (\$/m)	NEW STRUCTURE	45,000	ESTIMATED COST (\$)	33,750,000
	REHABILITATION	----		
COMMENTS (SPECIAL CONSTRUCTION & DESIGN FEATURES)	-			
NAME OF CONSULTANT (FOR PLANNING)	URS CANADA INC.		DATE	MAY 2007

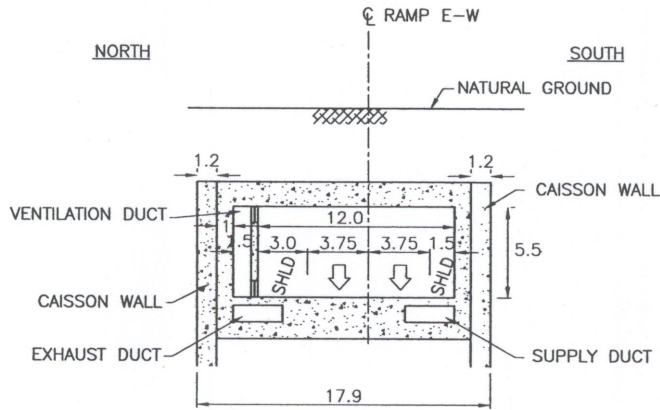
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 PLOT DATE: Aug 06, 2007 - 12:13pm

STRUCTURAL PLANNING SHEET

W.O.NO.	----	CORRIDOR	HC-T	ROUTE	ALIGNMENT ALTERNATIVE 3
STRUCTURE I.D.	3-25	SITE NO.	----	LOCATION	RAMP E-W NEAR HOWARD AVENUE
STRUCTURE NAME	RAMP E-W TUNNEL (NARROW)			<input type="checkbox"/> EXISTING <input checked="" type="checkbox"/> NEW	<input type="checkbox"/> OVERPASS <input checked="" type="checkbox"/> BELOW GRADE HWY(TUNNEL) <input type="checkbox"/> UNDERPASS <input type="checkbox"/> APPROACH RAMP
STRUCTURE DESCRIPTION	NARROW CUT AND COVER TUNNEL				



LONGITUDINAL SECTION SKETCH
1:400



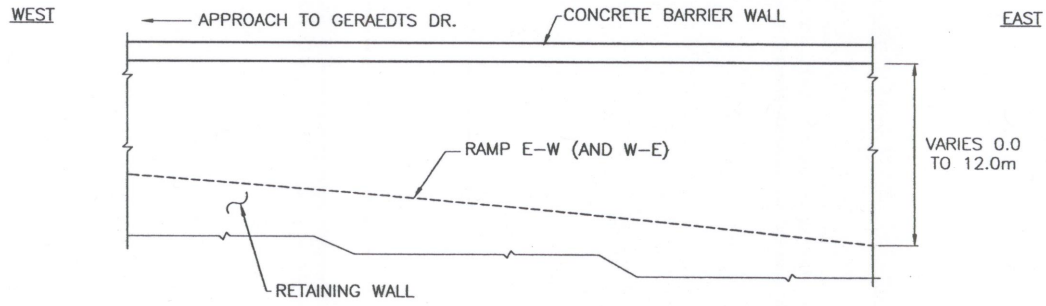
CROSS-SECTION SKETCH
1:400

LENGTH (m)	75	WIDTH (m)	--
STRUCTURAL DEPTH (m)	--	SPAN/DEPTH RATIO	--
SKEW ANGLE	--	VERTICAL CLEARANCE (m)	--
UNIT PRICE (\$/m)	NEW STRUCTURE	90,000	ESTIMATED COST (\$) 6,750,000
	REHABILITATION	----	
COMMENTS (SPECIAL CONSTRUCTION & DESIGN FEATURES)	NARROW TUNNEL FOR RAMP E-W		
NAME OF CONSULTANT (FOR PLANNING)	URS CANADA INC.	DATE	MAY 2007

FILENAME: O:\PROJECTS\15_Structural\CADD\Planning Sheets\ Hwy Alternatives\2007\Bridges\Alt-05-May15-2007\Bridges\Alternative-3-May15-2007.dwg
 PLOTTED: Aug 06, 2007 12:15pm

STRUCTURAL PLANNING SHEET

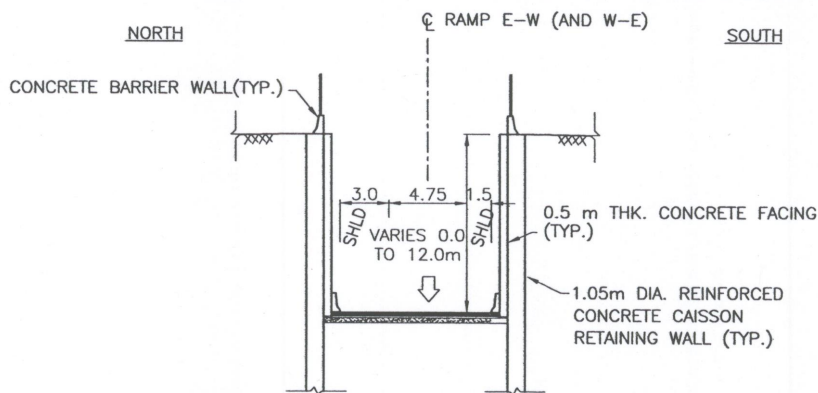
W.O.NO.	----	CORRIDOR	HC-T	ROUTE	ALIGNMENT ALTERNATIVE 3
STRUCTURE I.D.	3-30	SITE NO.	----	LOCATION	RAMP E-W&W-E TO HWY 401 NEAR COUSINEAU ROAD CROSSING
STRUCTURE NAME	RAMP E-W AND W-E			<input type="checkbox"/> EXISTING <input checked="" type="checkbox"/> NEW	<input type="checkbox"/> OVERPASS <input type="checkbox"/> BELOW GRADE HWY <input type="checkbox"/> UNDERPASS <input checked="" type="checkbox"/> APPROACH RAMP
STRUCTURE DESCRIPTION	BOAT SECTION WITH CAISSON RETAINING WALLS OF VARIABLE HEIGHTS				



NOTE : APPROACH RAMP(E-W) TO EAST OF GERAEDTS DR. IS SHOWN.
RAMP W-E IS SIMILAR WITH DIFFERENT ORIENTATION.

ELEVATION SKETCH

1:400



NOTE : APPROACH RAMP(E-W) TO EAST OF ST.CLAIR COLLEGE RD. IS SHOWN.
RAMP W-E IS SIMILAR WITH DIFFERENT ORIENTATION.

CROSS-SECTION SKETCH

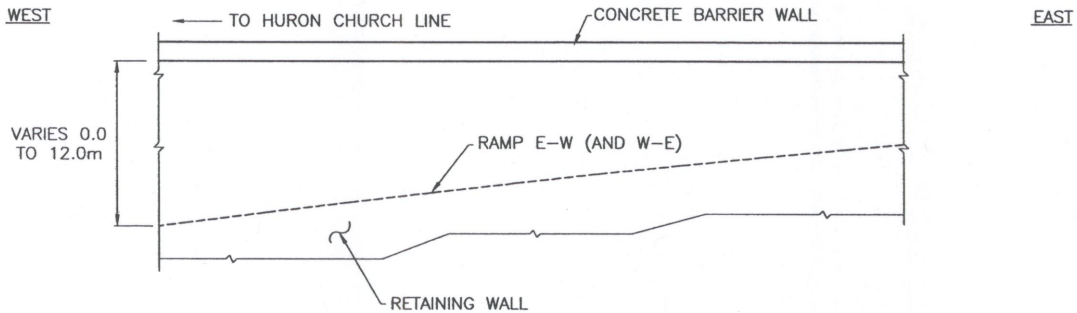
1:400

LENGTH (m)	500	WIDTH (m)	----
STRUCTURAL DEPTH (m)	----	SPAN/DEPTH RATIO	----
SKEW ANGLE	----	VERTICAL CLEARANCE (m)	----
UNIT PRICE (\$/m)	NEW STRUCTURE	45,000	ESTIMATED COST (\$) 22,500,000
	REHABILITATION	----	
COMMENTS (SPECIAL CONSTRUCTION & DESIGN FEATURES)	SEPERATE RAMPS E-W AND W-E OF SERVICE ROAD TO HIGHWAY 401.		
NAME OF CONSULTANT (FOR PLANNING)	URS CANADA INC.	DATE	MAY 2007

FILENAME: o:\p101\18_Structure\GADD\Planning Sheets\ Hwy Alternatives\2007\ Bridge--Alt--05--May15--2007\ BridgeAlternative-3--May15--2007.dwg
 PLOTTED: Aug 06, 2007 - 12:19pm

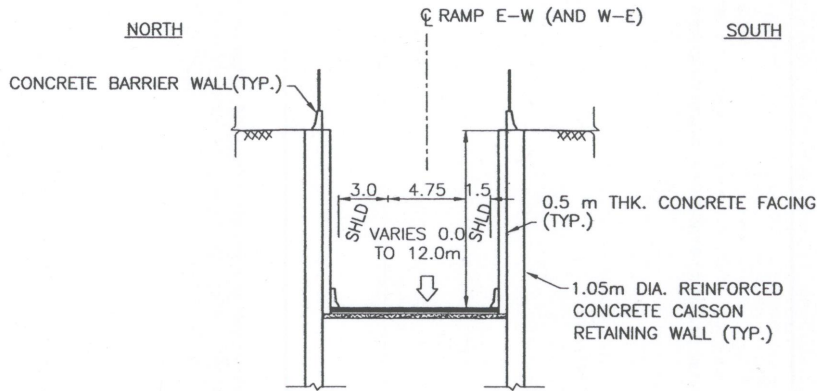
STRUCTURAL PLANNING SHEET

W.O.NO.	----	CORRIDOR	HC-T	ROUTE	ALIGNMENT ALTERNATIVE 3
STRUCTURE I.D.	3-40	SITE NO.	----	LOCATION	RAMPS HWY 401 NEAR HURON CHURCH LINE (CAHILL DRAIN)
STRUCTURE NAME	APPROACH RAMPS E-W AND W-E			<input type="checkbox"/> EXISTING <input checked="" type="checkbox"/> NEW	<input type="checkbox"/> OVERPASS <input type="checkbox"/> BELOW GRADE HWY <input type="checkbox"/> UNDERPASS <input checked="" type="checkbox"/> APPROACH RAMP
STRUCTURE DESCRIPTION	BOAT SECTION WITH CAISSON RETAINING WALLS OF VARIABLE HEIGHTS				



NOTE : APPROACH RAMP (E-W) TO EAST OF HURON CHURCH LINE IS SHOWN. (RAMP W-E SIMILAR)

ELEVATION SKETCH
1:400



NOTE : APPROACH RAMP (E-W) TO EAST OF HURON CHURCH LINE IS SHOWN. (RAMP W-E SIMILAR)

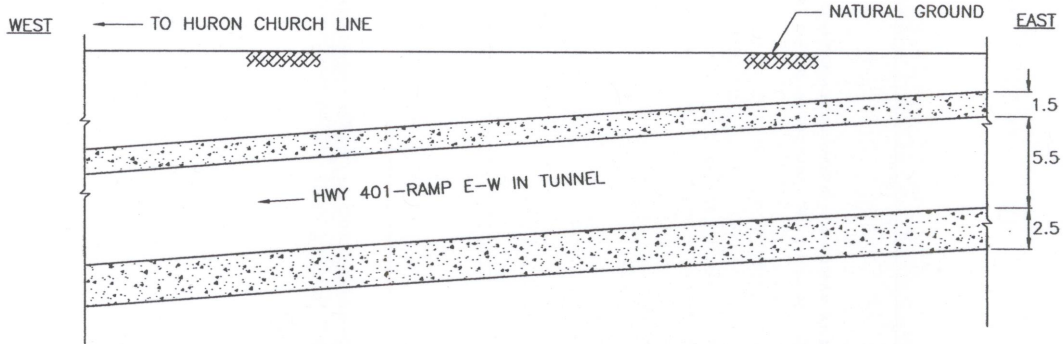
CROSS-SECTION SKETCH
1:400

LENGTH (m)	500	WIDTH (m)	----
STRUCTURAL DEPTH (m)	----	SPAN/DEPTH RATIO	----
SKIEW ANGLE	----	VERTICAL CLEARANCE (m)	----
UNIT PRICE (\$/m)	NEW STRUCTURE	45,000	ESTIMATED COST (\$) 22,500,000
	REHABILITATION	----	
COMMENTS (SPECIAL CONSTRUCTION & DESIGN FEATURES)	SEPERATE RAMPS E-W AND W-E OF SERVICE ROAD TO HIGHWAY 401 (NEAR CAHILL).		
NAME OF CONSULTANT (FOR PLANNING)	URS CANADA INC.	DATE	MAY 2007

FILENAME: \DRIC\18_Structure\CADD\Planning Sheets\Hyv Alternatives\2007\Bridges\Alternative-3-May15-2007.dwg
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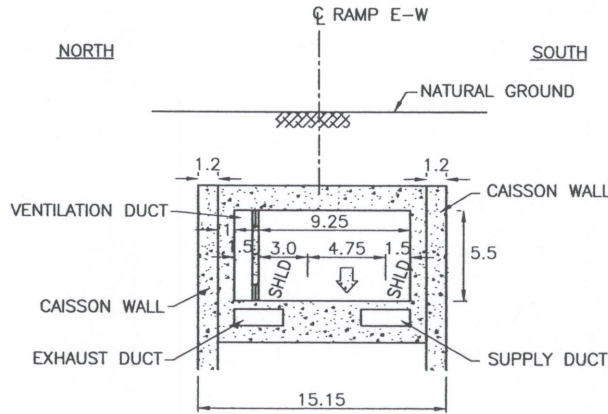
STRUCTURAL PLANNING SHEET

W.O.NO.	----	CORRIDOR	HC-T	ROUTE	ALIGNMENT ALTERNATIVE 3
STRUCTURE I.D.	3-45	SITE NO.	----	LOCATION	RAMPS NEAR NEAR CAHILL DRAIN
STRUCTURE NAME	RAMP E-W AND W-E TUNNELS			<input type="checkbox"/> EXISTING <input checked="" type="checkbox"/> NEW	<input type="checkbox"/> OVERPASS <input checked="" type="checkbox"/> BELOW GRADE HWY(TUNNEL) <input type="checkbox"/> UNDERPASS <input type="checkbox"/> APPROACH RAMP
STRUCTURE DESCRIPTION	NARROW CUT AND COVER TUNNEL				



NOTE: RAMP E-W IS SHOWN. RAMP W-E IS SIMILAR BUT IN DIFFERENT ORIENTATION.

LONGITUDINAL SECTION SKETCH
1:400



NOTE: RAMP E-W IS SHOWN. RAMP W-E IS SIMILAR BUT IN DIFFERENT ORIENTATION.

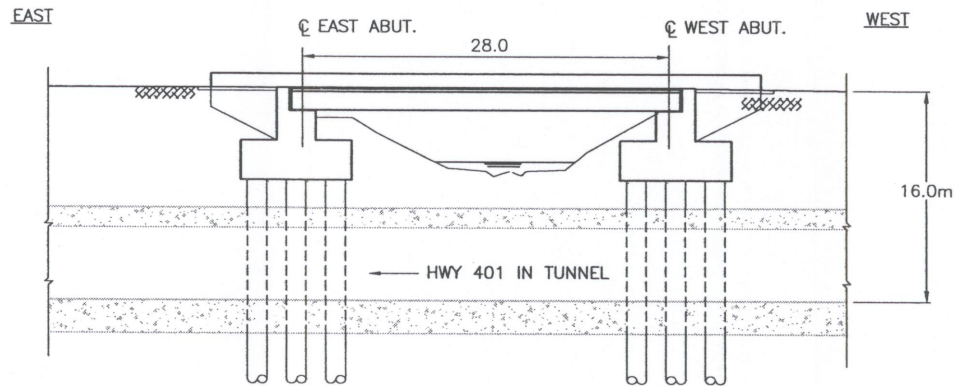
CROSS-SECTION SKETCH
1:400

LENGTH (m)	275	WIDTH (m)	--
STRUCTURAL DEPTH (m)	--	SPAN/DEPTH RATIO	--
SKEW ANGLE	--	VERTICAL CLEARANCE (m)	--
UNIT PRICE (\$/m)	NEW STRUCTURE	75,000	ESTIMATED COST (\$) 20,625,000
	REHABILITATION	----	
COMMENTS (SPECIAL CONSTRUCTION & DESIGN FEATURES)	NARROW TUNNELS FOR RAMPS E-W & W-E (SIMILAR).		
NAME OF CONSULTANT (FOR PLANNING)	URS CANADA INC.	DATE	MAY 2007

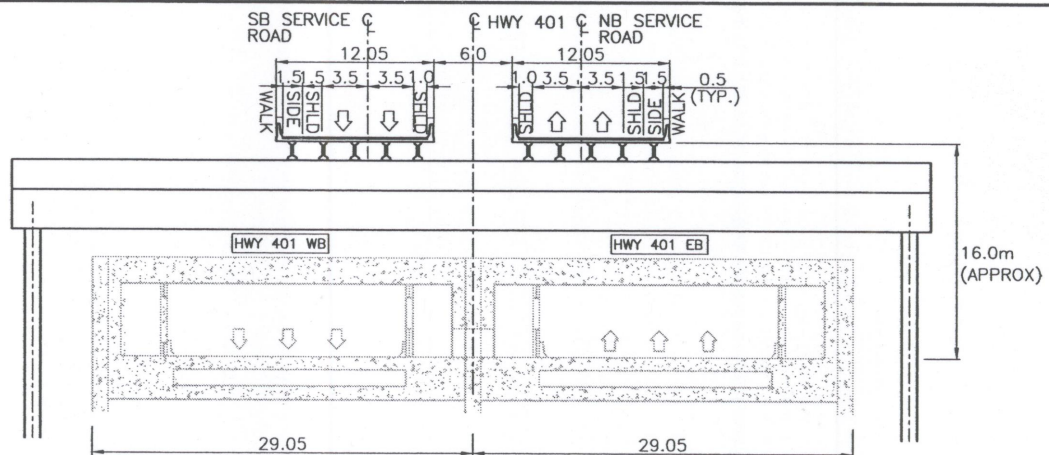
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 PLOTDATE: Aug 06, 2007 - 12:19pm

STRUCTURAL PLANNING SHEET

W.O.NO.	----	CORRIDOR	HC-T	ROUTE	ALIGNMENT ALTERNATIVE 3
STRUCTURE I.D.	3-55	SITE NO.	----	LOCATION	HWY 401 CROSSING OVER TURKEY CREEK
BRIDGE NAME	TURKEY CREEK BRIDGE FOR SB AND NB SERVICE ROADS			<input type="checkbox"/> EXISTING <input checked="" type="checkbox"/> NEW	<input checked="" type="checkbox"/> OVERPASS <input type="checkbox"/> UNDERPASS <input type="checkbox"/> BELOW GRADE HWY <input type="checkbox"/> APPROACH RAMP
STRUCTURE DESCRIPTION	SINGLE SPAN CPCI GIRDERS ON SEMI-INTEGRAL ABUTMENTS				



ELEVATION SKETCH
1:500



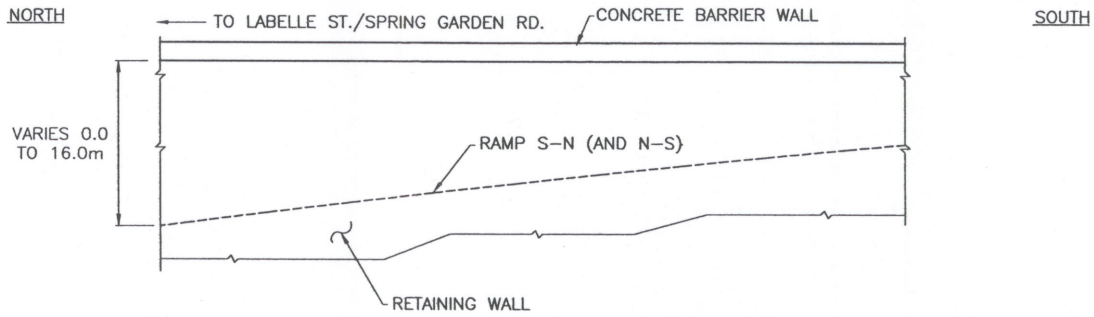
CROSS-SECTION SKETCH
1:500

LENGTH (m)	28	WIDTH (m)	2NO OF 12.05m
STRUCTURAL DEPTH (m)	1.7	SPAN/DEPTH RATIO	16
SKEW ANGLE	NO	VERTICAL CLEARANCE (m)	--
UNIT PRICE (\$/m)	NEW STRUCTURE	9,000	ESTIMATED COST (\$)
	REHABILITATION	----	
COMMENTS (SPECIAL CONSTRUCTION & DESIGN FEATURES)	- THIS BRIDGE CROSSING OVER TURKEY CREEK IS TO SPAN ACROSS HIGHWAY TUNNEL, TO BE CONSTRUCTED IN STAGES. - THE COST INCLUDES THE STAGED CONSTRUCTION, TEMPORARY BRIDGE CONSTRUCTION & REMOVAL OF TEMPORARY BRIDGE FOR DIVERTED HURON CHURCH ROAD		
NAME OF CONSULTANT (FOR PLANNING)	URS CANADA INC.	DATE	MAY 2007

FILENAME: C:\PROJ\18_Structure\18_Structure\CADD\Planning Sheets\ Hwy Alternatives\2007\Bridges\Alternative-3-May15-2007.dwg
 PLOTDATE: Aug 06, 2007 12:18pm

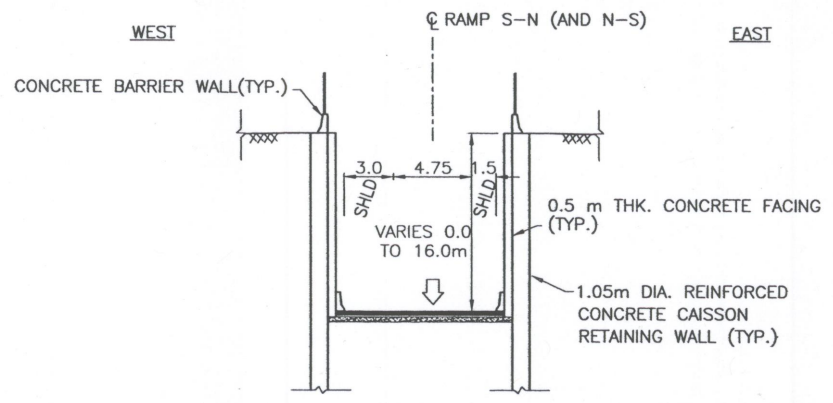
STRUCTURAL PLANNING SHEET

W.O.NO.	----	CORRIDOR	HC-T	ROUTE	ALIGNMENT ALTERNATIVE 3
STRUCTURE I.D.	3-60	SITE NO.	----	LOCATION	RAMPS HWY 401 EAST OF LABELLE ST./ SPRING GARDEN RD.
STRUCTURE NAME	APPROACH RAMPS S-N AND N-S			<input type="checkbox"/> EXISTING <input checked="" type="checkbox"/> NEW	<input type="checkbox"/> OVERPASS <input type="checkbox"/> BELOW GRADE HWY <input type="checkbox"/> UNDERPASS <input checked="" type="checkbox"/> APPROACH RAMP
STRUCTURE DESCRIPTION	DEEPER BOAT SECTION WITH CAISSON RETAINING WALLS OF VARIABLE HEIGHTS				



NOTE : APPROACH RAMP S-N TO EAST OF LABELLE ST./SPRING GARDEN RD. IS SHOWN.
APPROACH RAMP N-S IS SIMILAR WITH DIFFERENT ORIENTATION.

ELEVATION SKETCH
1:400



NOTE : APPROACH RAMP S-N TO EAST OF LABELLE ST./SPRING GARDEN RD. IS SHOWN.
APPROACH RAMP N-S IS SIMILAR WITH DIFFERENT ORIENTATION.

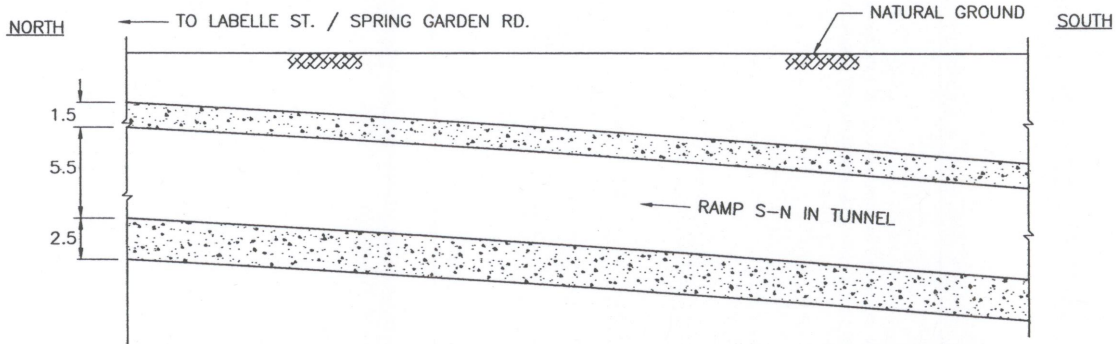
CROSS-SECTION SKETCH
1:400

LENGTH (m)	425	WIDTH (m)	----
STRUCTURAL DEPTH (m)	----	SPAN/DEPTH RATIO	----
SKEW ANGLE	----	VERTICAL CLEARANCE (m)	----
UNIT PRICE (\$/m)	NEW STRUCTURE	65,000	ESTIMATED COST (\$) 27,625,000
	REHABILITATION	----	
COMMENTS (SPECIAL CONSTRUCTION & DESIGN FEATURES)	SEPERATE RAMPS E-W AND W-E OF SERVICE ROAD TO HIGHWAY 401 (NEAR CAHILL).		
NAME OF CONSULTANT (FOR PLANNING)	URS CANADA INC.	DATE	MAY 2007

FILENAME: c:\prow\16_Structural\CADD\Planning Sheets\Hyv Alternatives\2007\Bridges\Alt-05-May15-2007\Bridges\Alternative-3-May15-2007.dwg
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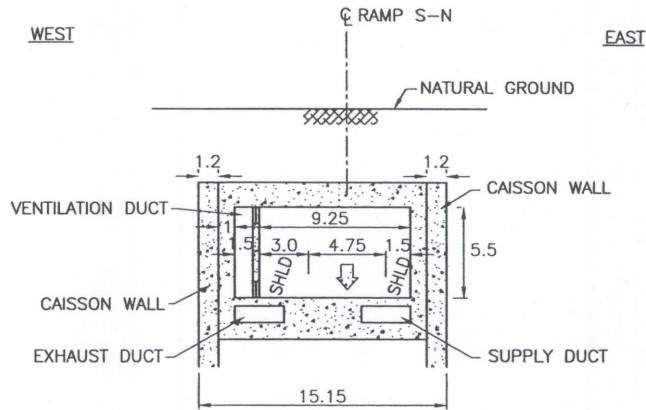
STRUCTURAL PLANNING SHEET

W.O.NO.	----	CORRIDOR	HC-T	ROUTE	ALIGNMENT ALTERNATIVE 3
STRUCTURE I.D.	3-65	SITE NO.	----	LOCATION	RAMPS NEAR HURON CHURCH ROAD
STRUCTURE NAME	RAMPS S-N & N-S TUNNELS			<input type="checkbox"/> EXISTING <input checked="" type="checkbox"/> NEW	<input type="checkbox"/> OVERPASS <input checked="" type="checkbox"/> BELOW GRADE HWY(TUNNEL) <input type="checkbox"/> UNDERPASS <input type="checkbox"/> APPROACH RAMP
STRUCTURE DESCRIPTION	NARROW CUT-N-COVER TUNNEL (DEEPER)				



NOTE: RAMP S-N IS SHOWN. RAMP N-S IS SIMILAR BUT IN DIFFERENT ORIENTATION.

LONGITUDINAL SECTION SKETCH
1:400



NOTE: RAMP S-N IS SHOWN. RAMP N-S IS SIMILAR BUT IN DIFFERENT ORIENTATION.

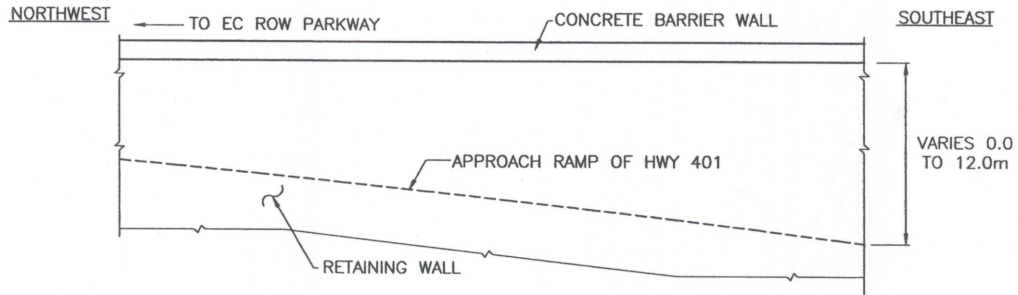
CROSS-SECTION SKETCH
1:400

LENGTH (m)	350	WIDTH (m)	--
STRUCTURAL DEPTH (m)	--	SPAN/DEPTH RATIO	--
SKREW ANGLE	--	VERTICAL CLEARANCE (m)	--
UNIT PRICE (\$/m)	NEW STRUCTURE	135,000	ESTIMATED COST (\$) 47,250,000
	REHABILITATION	----	
COMMENTS (SPECIAL CONSTRUCTION & DESIGN FEATURES)	NARROW TUNNEL FOR RAMPS N-S (AND S-N SIMILAR).		
NAME OF CONSULTANT (FOR PLANNING)	URS CANADA INC.	DATE	MAY 2007

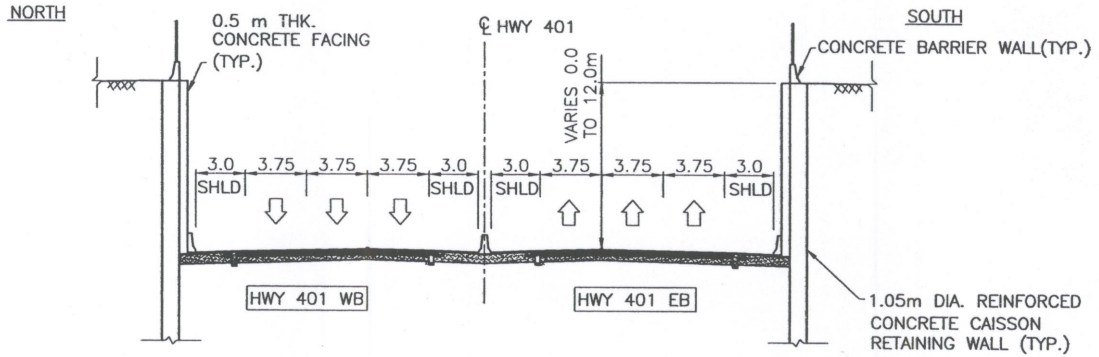
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 PLOTDATE: Aug 06, 2007 - 12:16pm

STRUCTURAL PLANNING SHEET

W.O.NO.	----	CORRIDOR	HC-T	ROUTE	ALIGNMENT ALTERNATIVE 3
STRUCTURE I.D.	3-70	SITE NO.	----	LOCATION	HWY 401 NEAR EC ROW PARKWAY WEST
STRUCTURE NAME	APPROACH RAMP OF HWY 401 NEAR EC ROW PARKWAY			<input type="checkbox"/> EXISTING <input checked="" type="checkbox"/> NEW	<input type="checkbox"/> OVERPASS <input type="checkbox"/> UNDERPASS <input type="checkbox"/> BELOW GRADE HWY <input checked="" type="checkbox"/> APPROACH RAMP
STRUCTURE DESCRIPTION	BOAT SECTION WITH CAISSON RETAINING WALLS OF VARIABLE HEIGHTS				



ELEVATION SKETCH
1:400



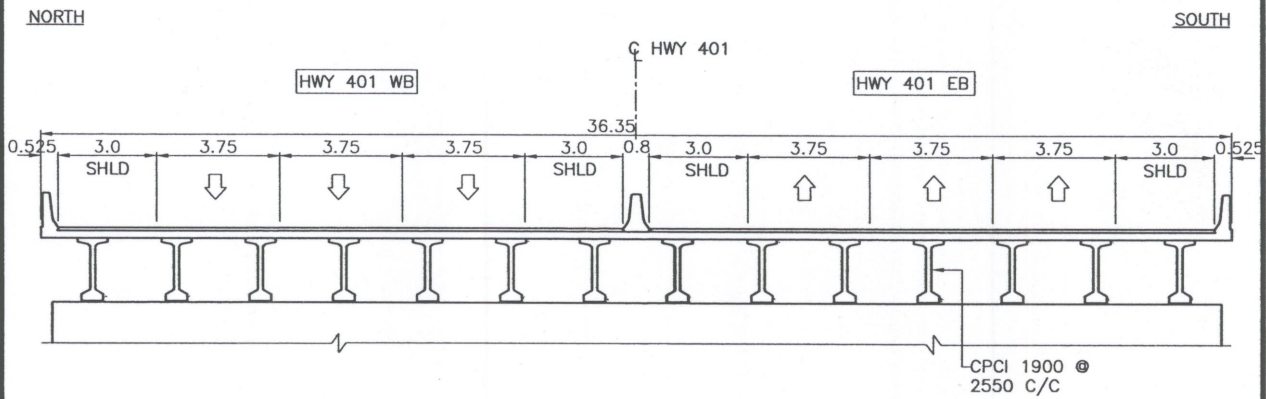
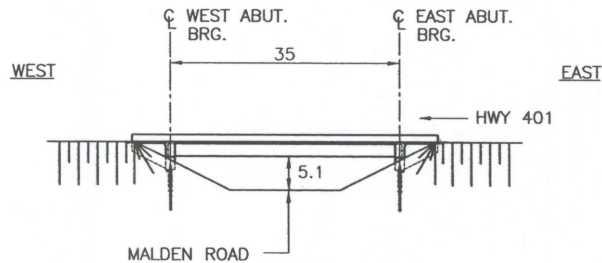
CROSS-SECTION SKETCH
1:400

LENGTH (m)	400	WIDTH (m)	----
STRUCTURAL DEPTH (m)	----	SPAN/DEPTH RATIO	----
SKREW ANGLE	----	VERTICAL CLEARANCE (m)	----
UNIT PRICE (\$/m)	NEW STRUCTURE	45,000	ESTIMATED COST (\$) 18,000,000
	REHABILITATION	----	
COMMENTS (SPECIAL CONSTRUCTION & DESIGN FEATURES)			
NAME OF CONSULTANT (FOR PLANNING)	URS CANADA INC.	DATE	MAY 2007

FILENAME: O:\Bric\16_Structural\CADD\Planning Sheets\Hyv Alternatives\2007\Bridges-Alt-05-May15-2007\BridgAltAlternative-3-May15-2007.dwg
 PLOTDATE: Aug 06, 2007 - 12:16pm

STRUCTURAL PLANNING SHEET

W.O.NO.	----	CORRIDOR	HC-T	ROUTE	ALIGNMENT ALTERNATIVE 3
STRUCTURE I.D.	3-90	SITE NO.	----	LOCATION	HWY 401 ABOVE MALDEN RD
BRIDGE NAME	MALDEN ROAD OVERPASS			<input type="checkbox"/> EXISTING <input checked="" type="checkbox"/> NEW	<input checked="" type="checkbox"/> OVERPASS <input type="checkbox"/> BELOW GRADE HWY <input type="checkbox"/> UNDERPASS <input type="checkbox"/> APPROACH RAMP
STRUCTURE DESCRIPTION	SINGLE SPAN CPCI 1900 GIRDERS WITH INTEGRAL ABUTMENTS				

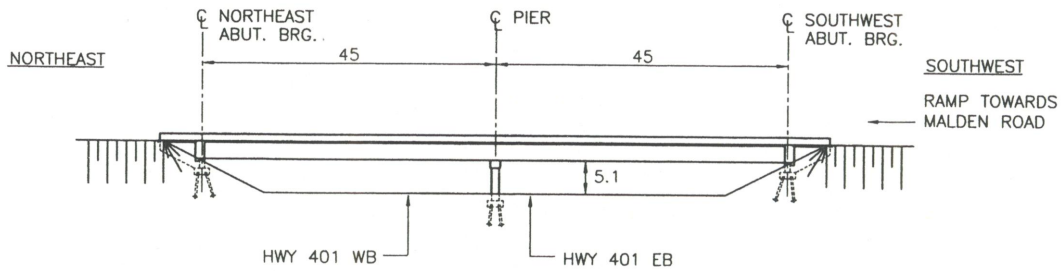


LENGTH (m)	35	WIDTH (m)	36.35
STRUCTURAL DEPTH (m)	2.2	SPAN/DEPTH RATIO	16
SKEW ANGLE	15'	VERTICAL CLEARANCE (m)	5.1
UNIT PRICE (\$/m ²)	NEW STRUCTURE	2,000	ESTIMATED COST (\$) 2,545,000
	REHABILITATION	----	
COMMENTS (SPECIAL CONSTRUCTION & DESIGN FEATURES)	HWY 401 CROSSES OVER MALDEN ROAD ON SKEW. HOWEVER THE RECTANGULAR BRIDGE DECK IS CONSIDERED.		
NAME OF CONSULTANT (FOR PLANNING)	URS CANADA INC.	DATE	MAY 2007

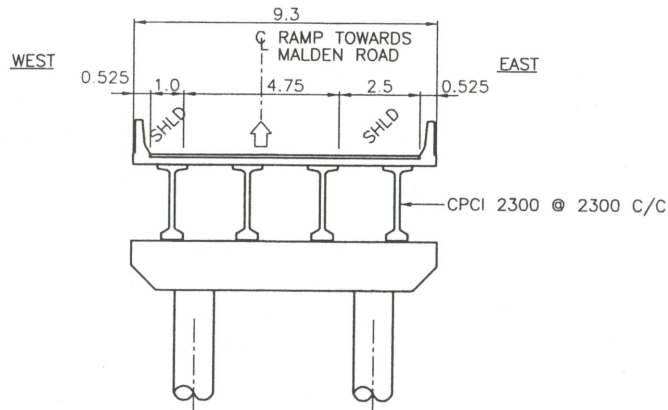
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 PLOTTED: Aug 06, 2007 - 12:16pm

STRUCTURAL PLANNING SHEET

W.O.NO.	----	CORRIDOR	HC-T	ROUTE	ALIGNMENT ALTERNATIVE 3
STRUCTURE I.D.	3-91	SITE NO.	----	LOCATION	RAMP TOWARDS MALDEN ROAD ABOVE HWY 401
BRIDGE NAME	RAMP W-E UNDERPASS			<input type="checkbox"/> EXISTING <input checked="" type="checkbox"/> NEW	<input type="checkbox"/> OVERPASS <input checked="" type="checkbox"/> UNDERPASS
STRUCTURE DESCRIPTION	TWO SPANS CPCI 2300 GIRDERS WITH SEMI-INTEGRAL ABUTMENTS				



ELEVATION SKETCH
1:1000



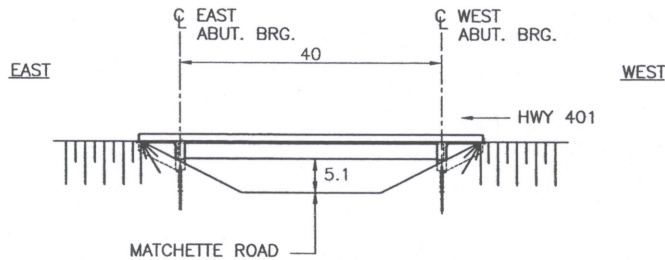
CROSS-SECTION SKETCH
1:200

LENGTH (m)	90	WIDTH (m)	9.30
STRUCTURAL DEPTH (m)	2.6	SPAN/DEPTH RATIO	17
SKEW ANGLE	55°	VERTICAL CLEARANCE (m)	5.1
UNIT PRICE (\$/m ²)	NEW STRUCTURE	2,100	ESTIMATED COST (\$) 1,758,000
	REHABILITATION	----	
COMMENTS (SPECIAL CONSTRUCTION & DESIGN FEATURES)	SEMI-INTEGRAL ABUTMENTS DUE TO 55° SKEW		
NAME OF CONSULTANT (FOR PLANNING)	URS CANADA INC.	DATE	FEBRUARY 2007

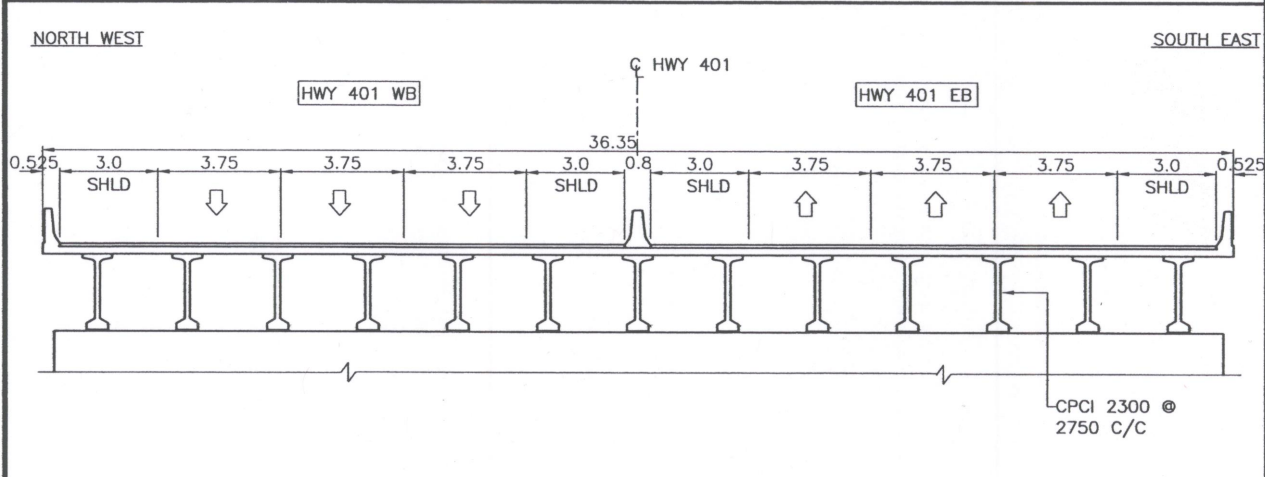
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 PLOTTED: Nov 02, 2007 - 1:36pm

STRUCTURAL PLANNING SHEET

W.O.NO.	----	CORRIDOR	HC-T	ROUTE	ALIGNMENT ALTERNATIVE 3
STRUCTURE I.D.	3-92	SITE NO.	----	LOCATION	MATCHETTE RD. ABOVE HWY 401
BRIDGE NAME	MATCHETTE ROAD OVERPASS			<input type="checkbox"/> EXISTING <input checked="" type="checkbox"/> NEW	<input checked="" type="checkbox"/> OVERPASS <input type="checkbox"/> UNDERPASS <input type="checkbox"/> BELOW GRADE HWY <input type="checkbox"/> APPROACH RAMP
STRUCTURE DESCRIPTION	SINGLE SPAN CPCI 2300 GIRDERS WITH INTEGRAL ABUTMENTS				



ELEVATION SKETCH
1:1000



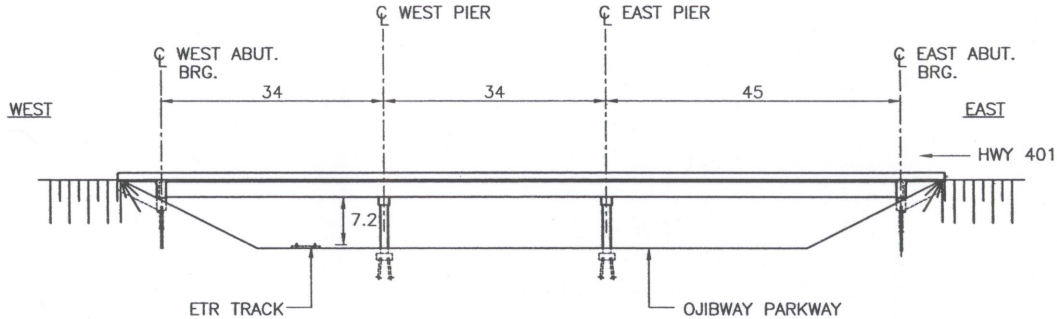
CROSS-SECTION SKETCH
1:200

LENGTH (m)	40	WIDTH (m)	36.35
STRUCTURAL DEPTH (m)	2.6	SPAN/DEPTH RATIO	16
SKREW ANGLE	20°	VERTICAL CLEARANCE (m)	5.1
UNIT PRICE (\$/m ²)	NEW STRUCTURE	2,000	ESTIMATED COST (\$) 2,908,000
	REHABILITATION	----	
COMMENTS (SPECIAL CONSTRUCTION & DESIGN FEATURES)	HWY 401 CROSSES ABOVE MATCHETTE ROAD ON SKEW, HOWEVER RECTANGULAR BRIDGE DECK IS CONSIDERED.		
NAME OF CONSULTANT (FOR PLANNING)	URS CANADA INC.	DATE	MAY 2007

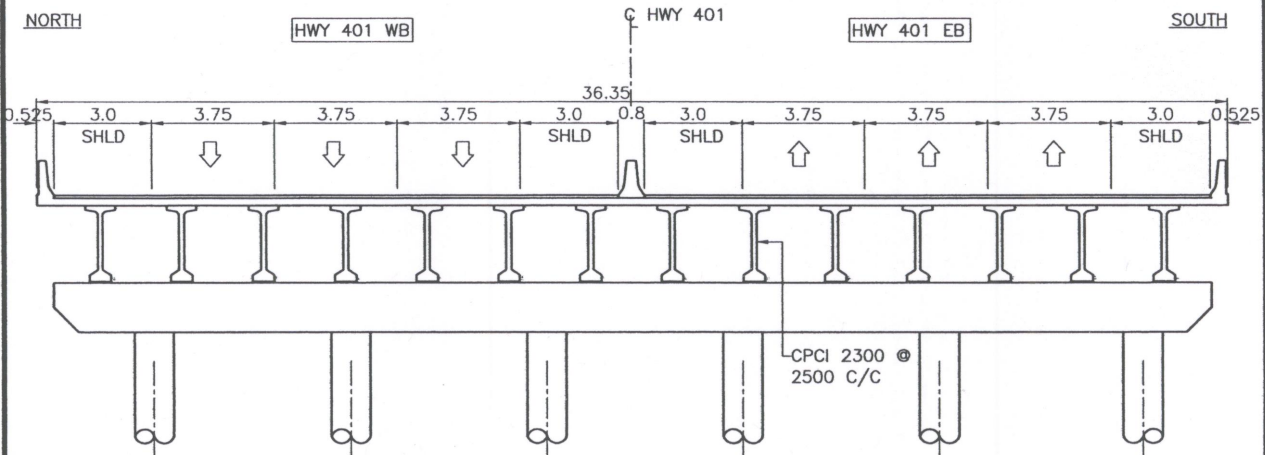
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 PLOTDATE: Aug 06, 2007 - 12:17pm

STRUCTURAL PLANNING SHEET

W.O.NO.	----	CORRIDOR	HC-T	ROUTE	ALIGNMENT ALTERNATIVE 3
STRUCTURE I.D.	3-93	SITE NO.	----	LOCATION	HWY 401 OVER OJIBWAY PKWY & ETR TRACK
BRIDGE NAME	OJIBWAY/ETR OVERPASS			<input type="checkbox"/> EXISTING <input checked="" type="checkbox"/> NEW	<input checked="" type="checkbox"/> OVERPASS <input type="checkbox"/> UNDERPASS <input type="checkbox"/> BELOW GRADE HWY <input type="checkbox"/> APPROACH RAMP
STRUCTURE DESCRIPTION	THREE SPANS CPCI 2300 GIRDERS WITH INTEGRAL ABUTMENTS				



ELEVATION SKETCH
1:1000



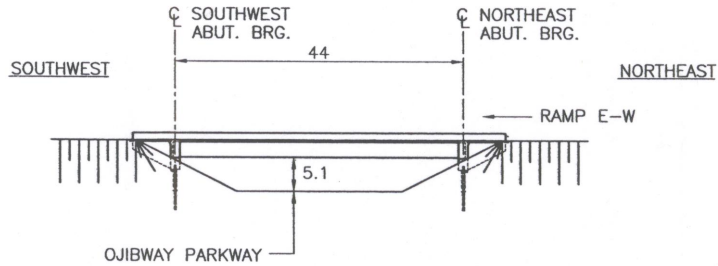
CROSS-SECTION SKETCH
1:200

LENGTH (m)	113	WIDTH (m)	36.35
STRUCTURAL DEPTH (m)	2.6	SPAN/DEPTH RATIO	17
SKEW ANGLE	20° (OJIBWAY PKWY) 0° (ETR)	VERTICAL CLEARANCE (m)	7.1
UNIT PRICE (\$/m ²)	NEW STRUCTURE	2,500	ESTIMATED COST (\$) 10,269,000
	REHABILITATION	----	
COMMENTS (SPECIAL CONSTRUCTION & DESIGN FEATURES)	HWY 401 CROSSING ABOVE OJIBWAY PARKWAY NEAR NEW INTERCHANGE AT EC ROW PARKWAY AND ESSEX TERMINAL RAILWAY (ETR) TRACK.		
NAME OF CONSULTANT (FOR PLANNING)	URS CANADA INC.	DATE	MAY 2007

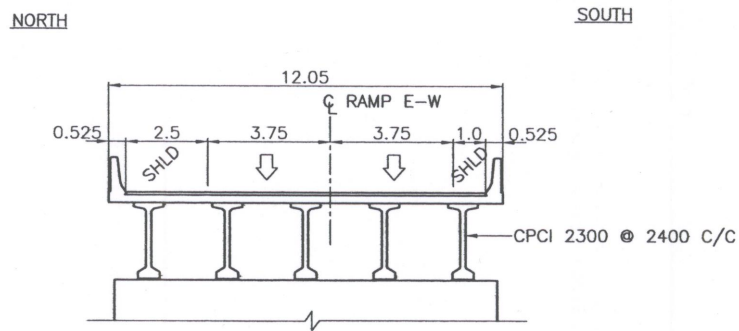
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STRUCTURAL PLANNING SHEET

W.O.NO.	----	CORRIDOR	HC-T	ROUTE	ALIGNMENT ALTERNATIVE 3
STRUCTURE I.D.	3-94	SITE NO.	----	LOCATION	RAMP E-W ABOVE OJIBWAY PKWY
BRIDGE NAME	RAMP E-W OJIBWAY PARKWAY OVERPASS			<input type="checkbox"/> EXISTING <input checked="" type="checkbox"/> NEW	<input checked="" type="checkbox"/> OVERPASS <input type="checkbox"/> UNDERPASS <input type="checkbox"/> BELOW GRADE HWY <input type="checkbox"/> APPROACH RAMP
STRUCTURE DESCRIPTION	SINGLE SPAN CPCI 2300 GIRDERS WITH INTEGRAL ABUTMENTS				



ELEVATION SKETCH
1:1000



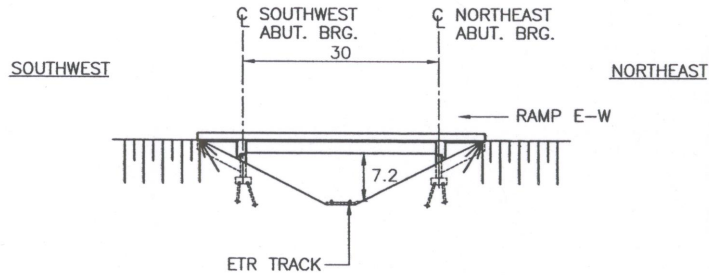
CROSS-SECTION SKETCH
1:200

LENGTH (m)	44	WIDTH (m)	12.05	
STRUCTURAL DEPTH (m)	2.6	SPAN/DEPTH RATIO	17	
SKIEW ANGLE	20°	VERTICAL CLEARANCE (m)	5.1	
UNIT PRICE (\$/m ²)	NEW STRUCTURE	2,000	ESTIMATED COST (\$)	1,060,000
	REHABILITATION	----		
COMMENTS (SPECIAL CONSTRUCTION & DESIGN FEATURES)	E-W RAMP CROSSES ABOVE OJIBWAY PARKWAY ON SKEW. HOWEVER RECTANGULAR BRIDGE DECK IS CONSIDERED.			
NAME OF CONSULTANT (FOR PLANNING)	URS CANADA INC.	DATE	MAY 2007	

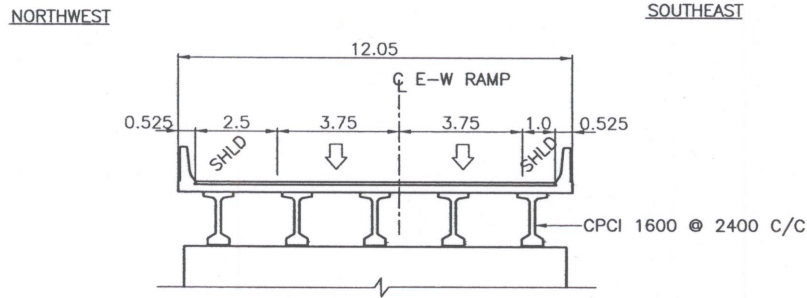
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STRUCTURAL PLANNING SHEET

W.O.NO.	----	CORRIDOR	HC-T	ROUTE	ALIGNMENT ALTERNATIVE 3
STRUCTURE I.D.	3-95	SITE NO.	----	LOCATION	E-W RAMP OVER ETR TRACK
BRIDGE NAME	RAMP E-W AT ETR OVERPASS			<input type="checkbox"/> EXISTING <input checked="" type="checkbox"/> NEW	<input checked="" type="checkbox"/> OVERPASS <input type="checkbox"/> BELOW GRADE HWY <input type="checkbox"/> UNDERPASS <input type="checkbox"/> APPROACH RAMP
STRUCTURE DESCRIPTION	SINGLE SPAN CPCI 1600 GIRDERS WITH SEMI-INTEGRAL ABUTMENTS				



ELEVATION SKETCH
1:1000



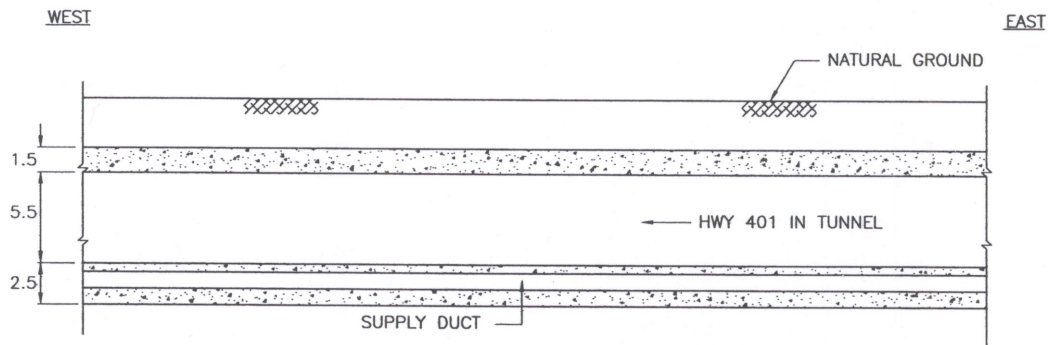
CROSS-SECTION SKETCH
1:200

LENGTH (m)	30	WIDTH (m)	12.05	
STRUCTURAL DEPTH (m)	1.9	SPAN/DEPTH RATIO	16	
SKREW ANGLE	35°	VERTICAL CLEARANCE (m)	7.1	
UNIT PRICE (\$/m ²)	NEW STRUCTURE	2,500	ESTIMATED COST (\$)	904,000
	REHABILITATION	----		
COMMENTS (SPECIAL CONSTRUCTION & DESIGN FEATURES)	- E-W RAMP CROSSIES ABOVE ESSEX TERMINAL RAILWAY (ETR) TRACK ON SKEW. HOWEVER RECTANGULAR BRIDGE DECK IS CONSIDERED. - SEMI-INTEGRAL ABUTMENTS DUE TO 35° SKEW			
NAME OF CONSULTANT (FOR PLANNING)	URS CANADA INC.	DATE	MAY 2007	

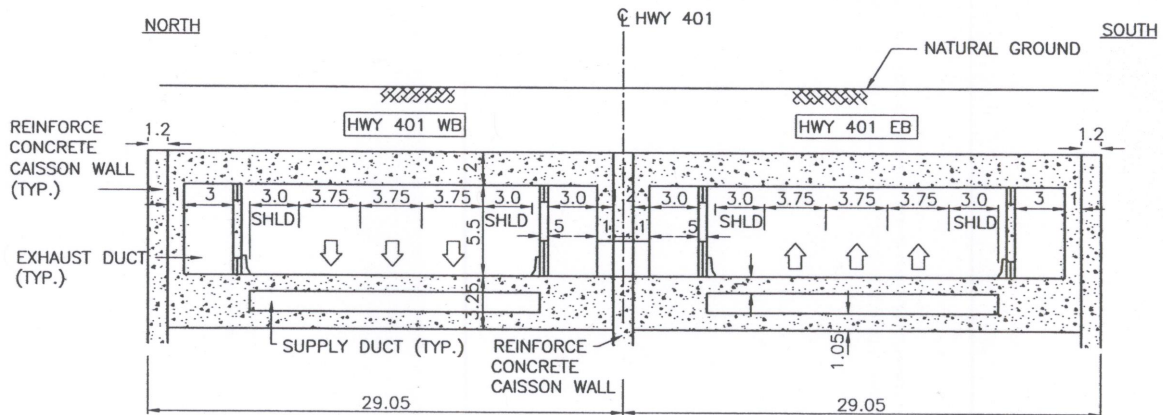
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STRUCTURAL PLANNING SHEET

W.O.NO.	----	CORRIDOR	HC-T	ROUTE	ALIGNMENT ALTERNATIVE 3
STRUCTURE I.D.	3-302	SITE NO.	----	LOCATION	HIGHWAY 401 IN TUNNEL SECTION BETWEEN HOWARD AVE. AND COUSINEAU ROAD
STRUCTURE NAME	HIGHWAY 401 TUNNEL BETWEEN HOWARD AVENUE AND COUSINEAU ROAD			<input type="checkbox"/> EXISTING <input checked="" type="checkbox"/> NEW	<input type="checkbox"/> OVERPASS <input checked="" type="checkbox"/> BELOW GRADE HWY(TUNNEL) <input type="checkbox"/> UNDERPASS <input type="checkbox"/> APPROACH RAMP
STRUCTURE DESCRIPTION	CUT AND COVER TUNNEL				



LONGITUDINAL SECTION SKETCH
1:400



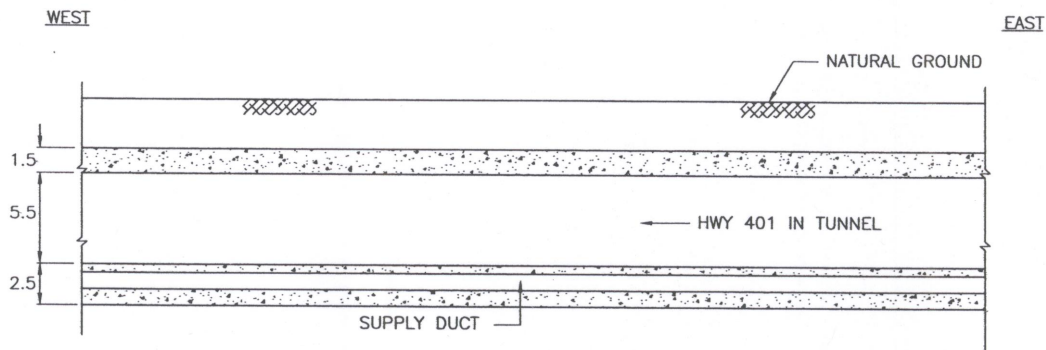
CROSS-SECTION SKETCH
1:400

LENGTH (m)	1,175	WIDTH (m)	-
STRUCTURAL DEPTH (m)	-	SPAN/DEPTH RATIO	-
SKEW ANGLE	-	VERTICAL CLEARANCE (m)	-
UNIT PRICE (\$/m)	NEW STRUCTURE 215,000 REHABILITATION -	ESTIMATED COST (\$)	252,625,000
COMMENTS (SPECIAL CONSTRUCTION & DESIGN FEATURES)			
NAME OF CONSULTANT (FOR PLANNING)	URS CANADA INC.	DATE	MAY 2007

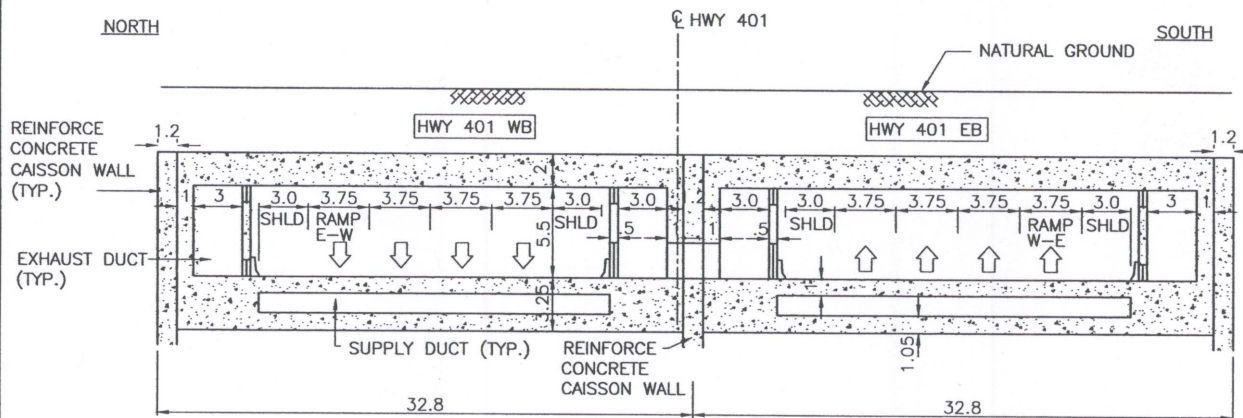
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STRUCTURAL PLANNING SHEET

W.O.NO.	----	CORRIDOR	HC-T	ROUTE	ALIGNMENT ALTERNATIVE 3
STRUCTURE I.D.	3-303	SITE NO.	----	LOCATION	HIGHWAY 401 IN TUNNEL SECTION AT EAST OF COUSINEAU ROAD
STRUCTURE NAME	HIGHWAY 401 TUNNEL AT EAST OF COUSINEAU ROAD			<input type="checkbox"/> EXISTING <input checked="" type="checkbox"/> NEW	<input type="checkbox"/> OVERPASS <input checked="" type="checkbox"/> BELOW GRADE HWY(TUNNEL) <input type="checkbox"/> UNDERPASS <input type="checkbox"/> APPROACH RAMP
STRUCTURE DESCRIPTION	CUT AND COVER TUNNEL				



LONGITUDINAL SECTION SKETCH
1:400



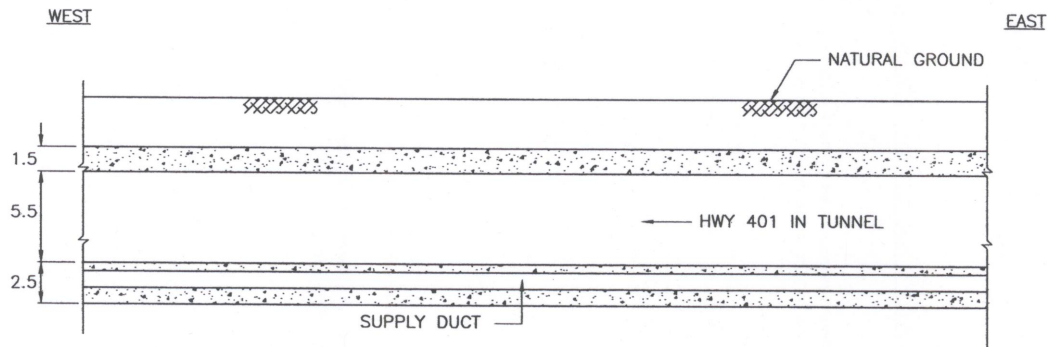
CROSS-SECTION SKETCH
1:400

LENGTH (m)	175	WIDTH (m)	-
STRUCTURAL DEPTH (m)	-	SPAN/DEPTH RATIO	-
SKEW ANGLE	-	VERTICAL CLEARANCE (m)	-
UNIT PRICE (\$/m)	NEW STRUCTURE 255,000 REHABILITATION -	ESTIMATED COST (\$)	44,625,000
COMMENTS (SPECIAL CONSTRUCTION & DESIGN FEATURES)	- RAMPS E-W AND W-E ARE INCLUDED.		
NAME OF CONSULTANT (FOR PLANNING)	URS CANADA INC.	DATE	MAY 2007

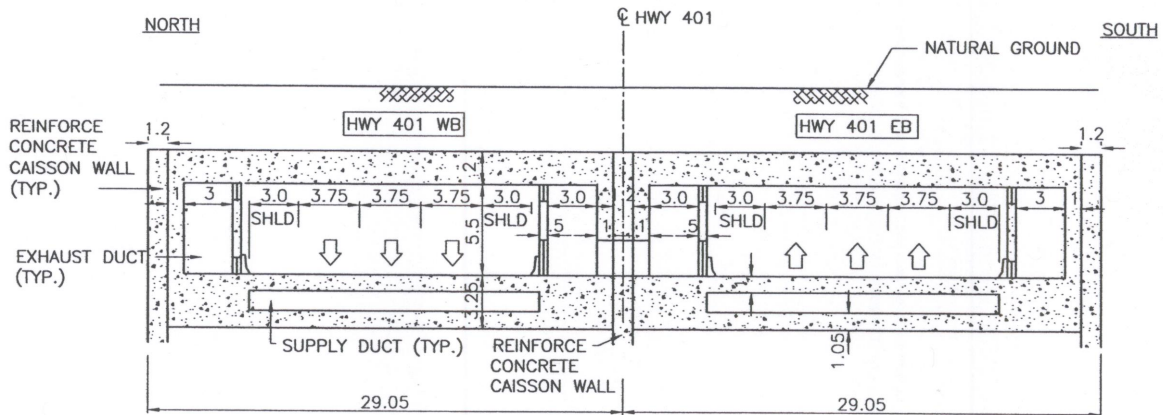
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STRUCTURAL PLANNING SHEET

W.O.NO.	----	CORRIDOR	HC-T	ROUTE	ALIGNMENT ALTERNATIVE 3
STRUCTURE I.D.	3-311	SITE NO.	----	LOCATION	HIGHWAY 401 IN TUNNEL SECTION AT WEST OF COUSINEAU ROAD
STRUCTURE NAME	HIGHWAY 401 TUNNEL AT WEST OF COUSINEAU ROAD			<input type="checkbox"/> EXISTING <input checked="" type="checkbox"/> NEW	<input type="checkbox"/> OVERPASS <input checked="" type="checkbox"/> BELOW GRADE HWY(TUNNEL) <input type="checkbox"/> UNDERPASS <input type="checkbox"/> APPROACH RAMP
STRUCTURE DESCRIPTION	CUT AND COVER TUNNEL				



LONGITUDINAL SECTION SKETCH
1:400



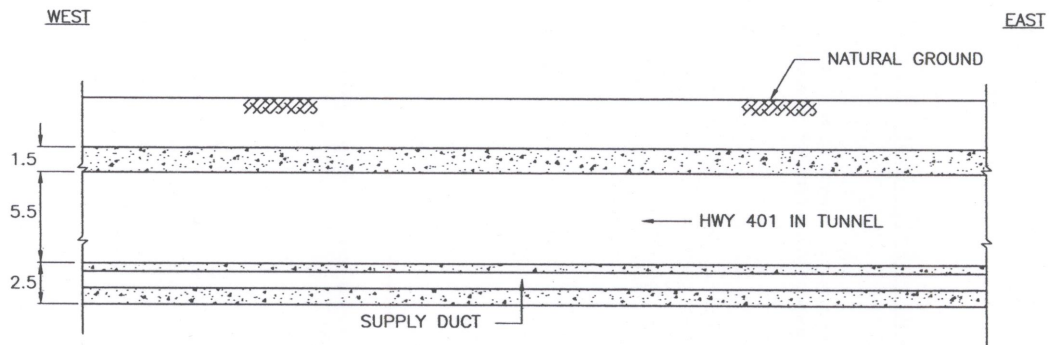
CROSS-SECTION SKETCH
1:400

LENGTH (m)	1,450	WIDTH (m)	-
STRUCTURAL DEPTH (m)	-	SPAN/DEPTH RATIO	-
SKEW ANGLE	-	VERTICAL CLEARANCE (m)	-
UNIT PRICE (\$/m)	NEW STRUCTURE	215,000	ESTIMATED COST (\$) 311,750,000
	REHABILITATION	-	
COMMENTS (SPECIAL CONSTRUCTION & DESIGN FEATURES)			
NAME OF CONSULTANT (FOR PLANNING)	URS CANADA INC.	DATE	MAY 2007

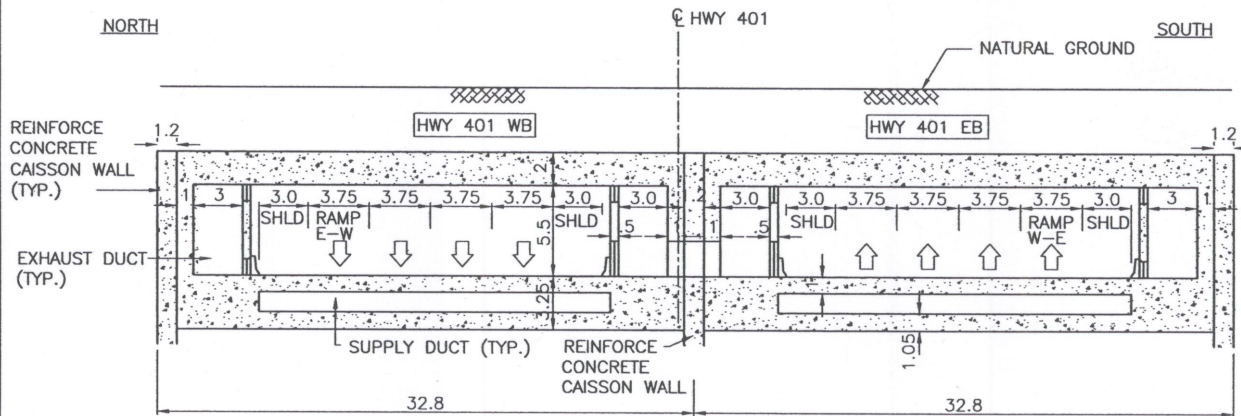
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STRUCTURAL PLANNING SHEET

W.O.NO.	----	CORRIDOR	HC-T	ROUTE	ALIGNMENT ALTERNATIVE 3
STRUCTURE I.D.	3-312	SITE NO.	----	LOCATION	HIGHWAY 401 IN TUNNEL SECTION AT WEST OF HURON CHURCH LINE
STRUCTURE NAME	HIGHWAY 401 TUNNEL AT WEST OF HURON CHURCH LINE			<input type="checkbox"/> EXISTING <input checked="" type="checkbox"/> NEW	<input type="checkbox"/> OVERPASS <input checked="" type="checkbox"/> BELOW GRADE HWY(TUNNEL) <input type="checkbox"/> UNDERPASS <input type="checkbox"/> APPROACH RAMP
STRUCTURE DESCRIPTION	CUT AND COVER TUNNEL				



LONGITUDINAL SECTION SKETCH
1:400



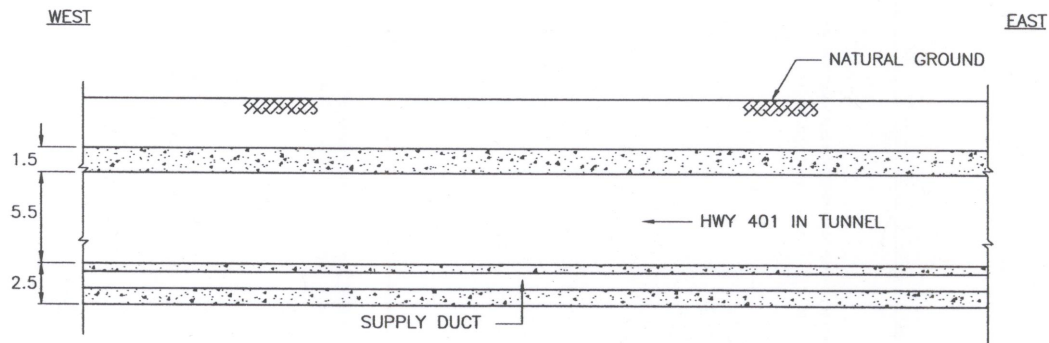
CROSS-SECTION SKETCH
1:400

LENGTH (m)	200	WIDTH (m)	-
STRUCTURAL DEPTH (m)	-	SPAN/DEPTH RATIO	-
SKIEW ANGLE	-	VERTICAL CLEARANCE (m)	-
UNIT PRICE (\$/m)	NEW STRUCTURE	255,000	ESTIMATED COST (\$) 51,000,000
	REHABILITATION	-	
COMMENTS (SPECIAL CONSTRUCTION & DESIGN FEATURES)	- RAMPS E-W AND W-E ARE INCLUDED.		
NAME OF CONSULTANT (FOR PLANNING)	URS CANADA INC.	DATE	MAY 2007

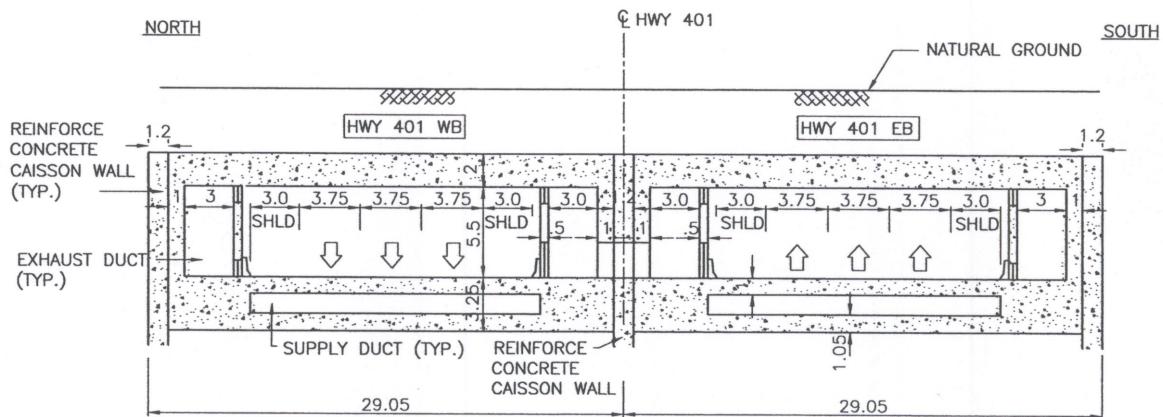
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STRUCTURAL PLANNING SHEET

W.O.NO.	----	CORRIDOR	HC-T	ROUTE	ALIGNMENT ALTERNATIVE 3
STRUCTURE I.D.	3-313	SITE NO.	----	LOCATION	HIGHWAY 401 IN TUNNEL SECTION AT EAST OF CABANA ROAD WEST/ TODD LANE
STRUCTURE NAME	HIGHWAY 401 TUNNEL AT EAST OF CABANA ROAD WEST/ TODD LANE			<input type="checkbox"/> EXISTING <input checked="" type="checkbox"/> NEW	<input type="checkbox"/> OVERPASS <input checked="" type="checkbox"/> BELOW GRADE HWY(TUNNEL) <input type="checkbox"/> UNDERPASS <input type="checkbox"/> APPROACH RAMP
STRUCTURE DESCRIPTION	CUT AND COVER TUNNEL				



LONGITUDINAL SECTION SKETCH
1:400



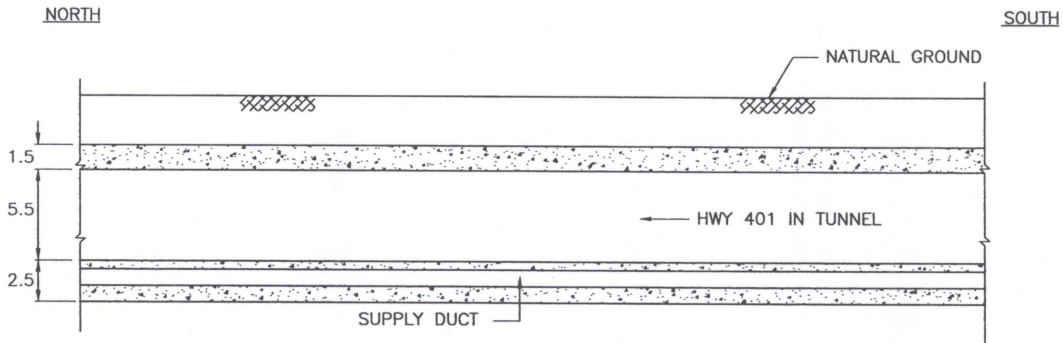
CROSS-SECTION SKETCH
1:400

LENGTH (m)	500	WIDTH (m)	-
STRUCTURAL DEPTH (m)	-	SPAN/DEPTH RATIO	-
SKIEW ANGLE	-	VERTICAL CLEARANCE (m)	-
UNIT PRICE (\$/m)	NEW STRUCTURE 215,000 REHABILITATION -	ESTIMATED COST (\$)	107,500,000
COMMENTS (SPECIAL CONSTRUCTION & DESIGN FEATURES)			
NAME OF CONSULTANT (FOR PLANNING)	URS CANADA INC.	DATE	MAY 2007

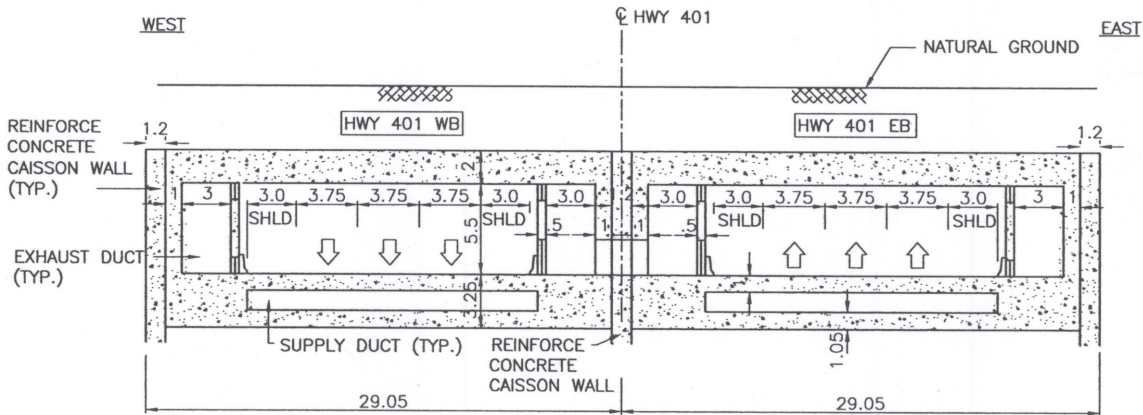
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STRUCTURAL PLANNING SHEET

W.O.NO.	----	CORRIDOR	HC-T	ROUTE	ALIGNMENT ALTERNATIVE 3
STRUCTURE I.D.	3-321	SITE NO.	----	LOCATION	HIGHWAY 401 IN TUNNEL SECTION AT WEST OF CABANA ROAD WEST/ TODD LANE
STRUCTURE NAME	HIGHWAY 401 TUNNEL AT WEST OF CABANA ROAD WEST/ TODD LANE			<input type="checkbox"/> EXISTING <input checked="" type="checkbox"/> NEW	<input type="checkbox"/> OVERPASS <input checked="" type="checkbox"/> BELOW GRADE HWY(TUNNEL) <input type="checkbox"/> UNDERPASS <input type="checkbox"/> APPROACH RAMP
STRUCTURE DESCRIPTION	CUT AND COVER TUNNEL				



LONGITUDINAL SECTION SKETCH
1:400



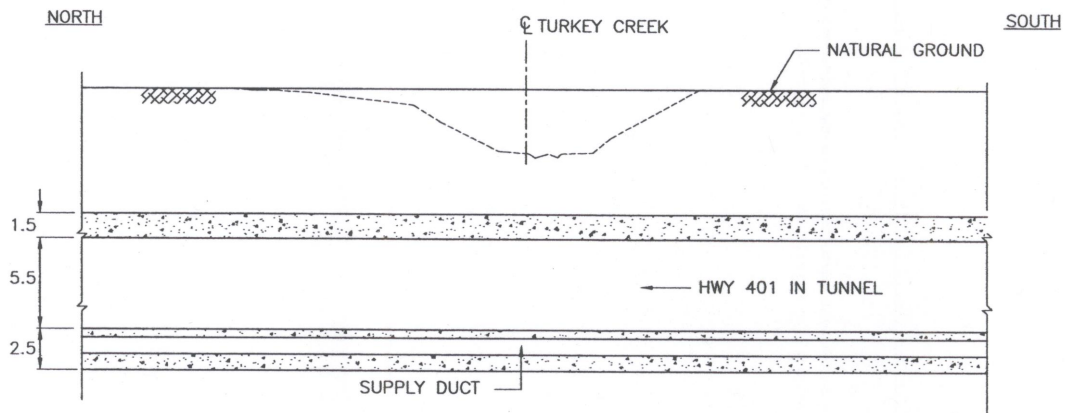
CROSS-SECTION SKETCH
1:400

LENGTH (m)	950		WIDTH (m)	-	
STRUCTURAL DEPTH (m)	-		SPAN/DEPTH RATIO	-	
SKEW ANGLE	-		VERTICAL CLEARANCE (m)	-	
UNIT PRICE (\$/m)	NEW STRUCTURE	215,000	ESTIMATED COST (\$)	204,250,000	
	REHABILITATION	-			
COMMENTS (SPECIAL CONSTRUCTION & DESIGN FEATURES)					
NAME OF CONSULTANT (FOR PLANNING)	URS CANADA INC.		DATE	MAY 2007	

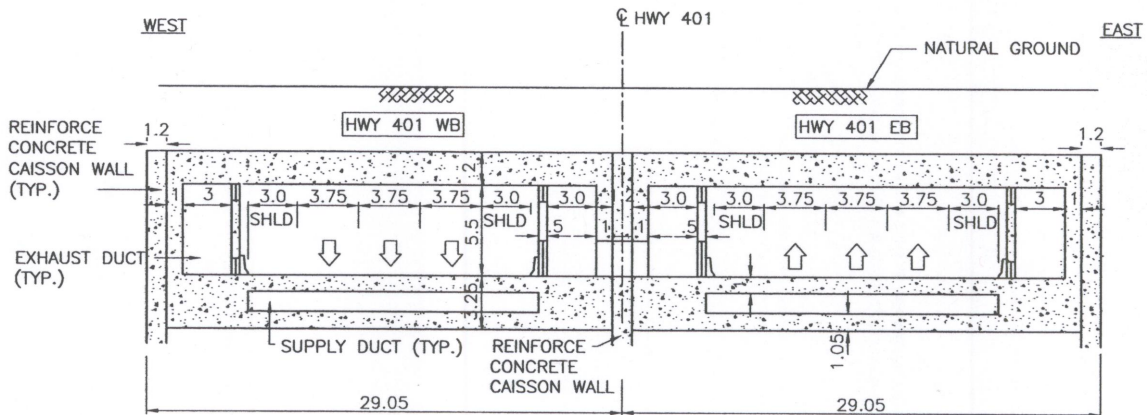
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STRUCTURAL PLANNING SHEET

W.O.NO.	----	CORRIDOR	HC-T	ROUTE	ALIGNMENT ALTERNATIVE 3
STRUCTURE I.D.	3-322	SITE NO.	----	LOCATION	HIGHWAY 401 IN TUNNEL SECTION BELOW TURKEY CREEK
STRUCTURE NAME	HIGHWAY 401 TUNNEL BELOW TURKEY CREEK			<input type="checkbox"/> EXISTING <input checked="" type="checkbox"/> NEW	<input type="checkbox"/> OVERPASS <input checked="" type="checkbox"/> BELOW GRADE HWY(TUNNEL) <input type="checkbox"/> UNDERPASS <input type="checkbox"/> APPROACH RAMP
STRUCTURE DESCRIPTION	CUT AND COVER TUNNEL (DEEPER)				



LONGITUDINAL SECTION SKETCH
1:400



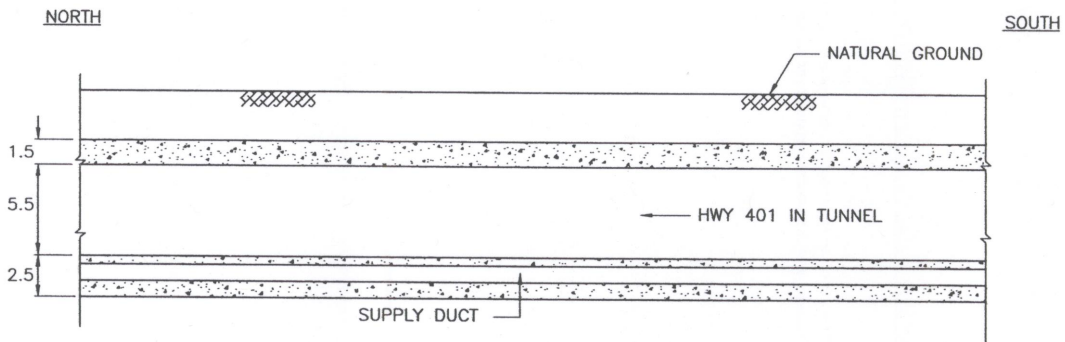
CROSS-SECTION SKETCH
1:400

LENGTH (m)	300	WIDTH (m)	-
STRUCTURAL DEPTH (m)	-	SPAN/DEPTH RATIO	-
SKEW ANGLE	-	VERTICAL CLEARANCE (m)	-
UNIT PRICE (\$/m)	NEW STRUCTURE	265,000	ESTIMATED COST (\$)
	REHABILITATION	-	
COMMENTS (SPECIAL CONSTRUCTION & DESIGN FEATURES)	- DEEPER PORTION OF TUNNEL UNDER TURKEY CREEK TO BE CONSTRUCTED IN STAGES.		
NAME OF CONSULTANT (FOR PLANNING)	URS CANADA INC.	DATE	MAY 2007

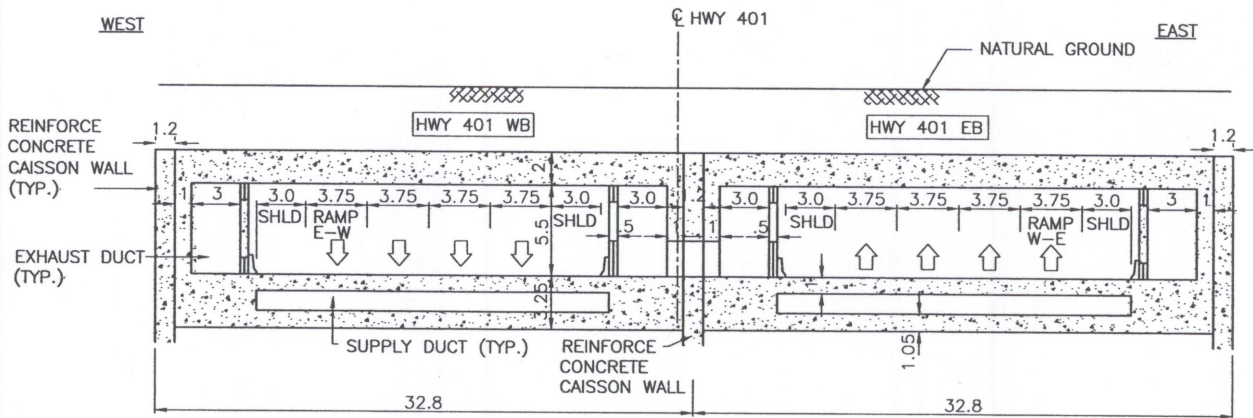
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STRUCTURAL PLANNING SHEET

W.O.NO.	----	CORRIDOR	HC-T	ROUTE	ALIGNMENT ALTERNATIVE 3
STRUCTURE I.D.	3-323	SITE NO.	----	LOCATION	HIGHWAY 401 IN TUNNEL SECTION AT EAST OF GRAND MARAIS ROAD WEST
STRUCTURE NAME	HIGHWAY 401 TUNNEL AT EAST OF GRAND MARAIS ROAD WEST			<input type="checkbox"/> EXISTING <input checked="" type="checkbox"/> NEW	<input type="checkbox"/> OVERPASS <input checked="" type="checkbox"/> BELOW GRADE HWY(TUNNEL) <input type="checkbox"/> UNDERPASS <input type="checkbox"/> APPROACH RAMP
STRUCTURE DESCRIPTION	CUT AND COVER TUNNEL (DEEPER)				



LONGITUDINAL SECTION SKETCH
1:400



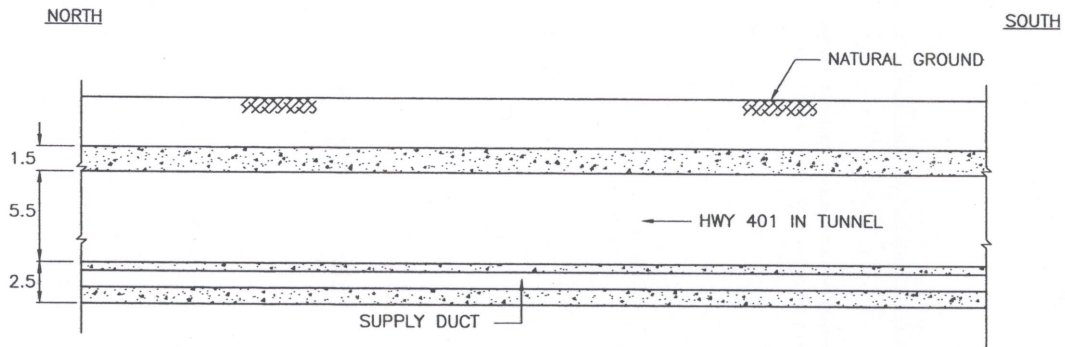
CROSS-SECTION SKETCH
1:400

LENGTH (m)	150	WIDTH (m)	-
STRUCTURAL DEPTH (m)	-	SPAN/DEPTH RATIO	-
SKEW ANGLE	-	VERTICAL CLEARANCE (m)	-
UNIT PRICE (\$/m)	NEW STRUCTURE	255,000	ESTIMATED COST (\$) 38,250,000
	REHABILITATION	-	
COMMENTS (SPECIAL CONSTRUCTION & DESIGN FEATURES)	- RAMPS S-N AND N-S ARE INCLUDED.		
NAME OF CONSULTANT (FOR PLANNING)	URS CANADA INC.	DATE	MAY 2007

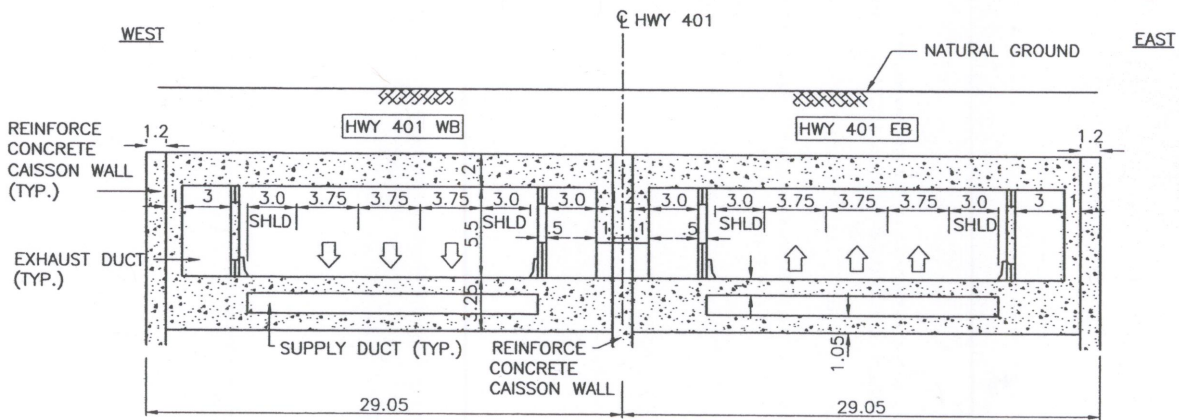
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STRUCTURAL PLANNING SHEET

W.O.NO.	----	CORRIDOR	HC-T	ROUTE	ALIGNMENT ALTERNATIVE 3
STRUCTURE I.D.	3-331	SITE NO.	----	LOCATION	HIGHWAY 401 IN TUNNEL SECTION AT WEST OF GRAND MARAIS ROAD WEST
STRUCTURE NAME	HIGHWAY 401 TUNNEL AT WEST OF GRAND MARAIS ROAD WEST			<input type="checkbox"/> EXISTING <input checked="" type="checkbox"/> NEW	<input type="checkbox"/> OVERPASS <input checked="" type="checkbox"/> BELOW GRADE HWY(TUNNEL) <input type="checkbox"/> UNDERPASS <input type="checkbox"/> APPROACH RAMP
STRUCTURE DESCRIPTION	CUT AND COVER TUNNEL				



LONGITUDINAL SECTION SKETCH
1:400



CROSS-SECTION SKETCH
1:400

LENGTH (m)	1,000	WIDTH (m)	-
STRUCTURAL DEPTH (m)	-	SPAN/DEPTH RATIO	-
SKEW ANGLE	-	VERTICAL CLEARANCE (m)	-
UNIT PRICE (\$/m)	NEW STRUCTURE	215,000	ESTIMATED COST (\$)
	REHABILITATION	-	
COMMENTS (SPECIAL CONSTRUCTION & DESIGN FEATURES)			
NAME OF CONSULTANT (FOR PLANNING)	URS CANADA INC.	DATE	MAY 2007

FILENAME: C:\DRC\18_Structural\CADD\Planning Sheets\ Hwy Alternatives\2007\Bridges\Alt-05-May15-2007\Bridges\Alternative-3-May15-2007.dwg
 PLOTDATE: Aug 06, 2007 - 12:18pm

Appendix C.6

Structural Planning Sheets for The Parkway

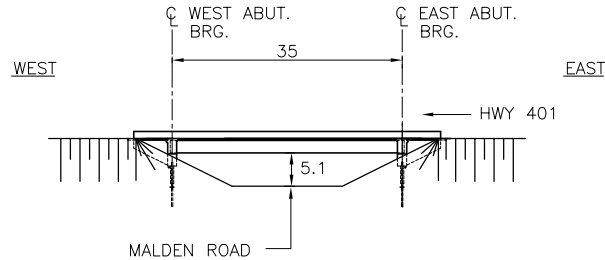
STRUCTURAL PLANNING SHEET

W.O.NO.	----	CORRIDOR	HC-T	ROUTE	ALIGNMENT ALTERNATIVE "THE PARKWAY"
STRUCTURE I.D.	BR-7	SITE NO.	----	LOCATION	HWY 3 OVER HWY 401 EAST OF HURON CHUCH LINE
STRUCTURE NAME	HWY 3 EB UNDERPASS CROSSING AT EAST OF HURON CHURCH LINE			<input type="checkbox"/> EXISTING <input checked="" type="checkbox"/> NEW	<input type="checkbox"/> OVERPASS <input checked="" type="checkbox"/> UNDERPASS <input type="checkbox"/> BELOW GRADE HWY <input type="checkbox"/> APPROACH RAMP
STRUCTURE DESCRIPTION	FOUR SPANS POST-TENSIONED VOIDED SLAB WITH SEMI-INTEGRAL ABUTMENTS AND RSS WALLS				
<p>NORTH SOUTH</p> <p style="text-align: center;">ELEVATION SKETCH 1:1000</p>					
<p style="text-align: center;">CROSS-SECTION SKETCH 1:200</p>					
LENGTH (m)	147		WIDTH (m)	11.55	
STRUCTURAL DEPTH (m)	2.3		SPAN/DEPTH RATIO	22	
SKREW ANGLE	NO		VERTICAL CLEARANCE (m)	5.1	
UNIT PRICE (\$/m ²)	NEW STRUCTURE	2,300		ESTIMATED COST (\$)	3,905,000
	REHABILITATION	----			
COMMENTS (SPECIAL CONSTRUCTION & DESIGN FEATURES)					
NAME OF CONSULTANT (FOR PLANNING)	URS CANADA INC.		DATE	FEBRUARY 2008	

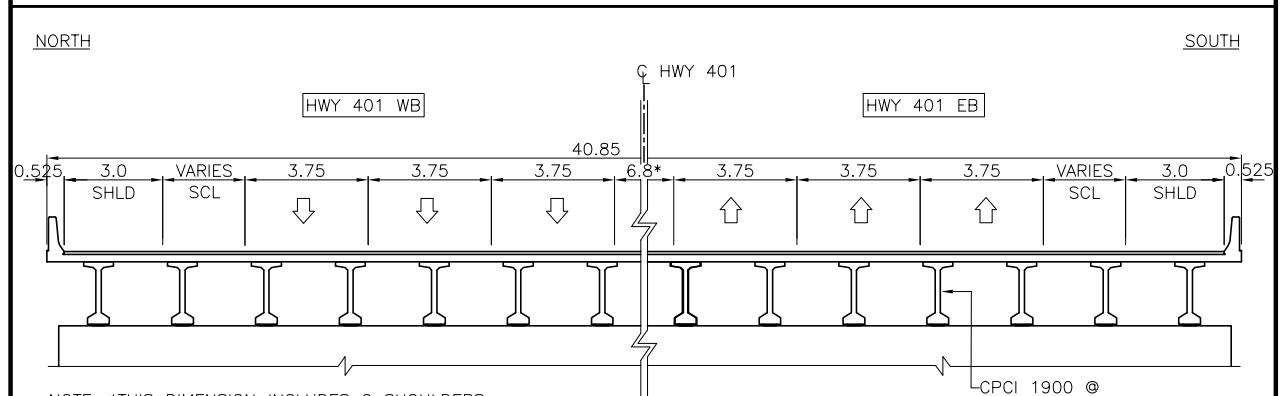
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 PLOTDATE: Mar 17, 2008 2:32pm

STRUCTURAL PLANNING SHEET

W.O.NO.	----	CORRIDOR	HC-T	ROUTE	ALIGNMENT ALTERNATIVE 'THE PARKWAY'
STRUCTURE I.D.	BR-10	SITE NO.	----	LOCATION	HWY 401 ABOVE MALDEN RD
STRUCTURE NAME	MALDEN ROAD OVERPASS			<input type="checkbox"/> EXISTING <input checked="" type="checkbox"/> NEW	<input checked="" type="checkbox"/> OVERPASS <input type="checkbox"/> BELOW GRADE HWY <input type="checkbox"/> UNDERPASS <input type="checkbox"/> APPROACH RAMP
STRUCTURE DESCRIPTION	SINGLE SPAN CPCI 1900 GIRDERS WITH INTEGRAL ABUTMENTS				



ELEVATION SKETCH
1:1000



NOTE: *THIS DIMENSION INCLUDES 2 SHOULDERS OF 3m PLUS CONCRETE MEDIAN BARRIER WALL.

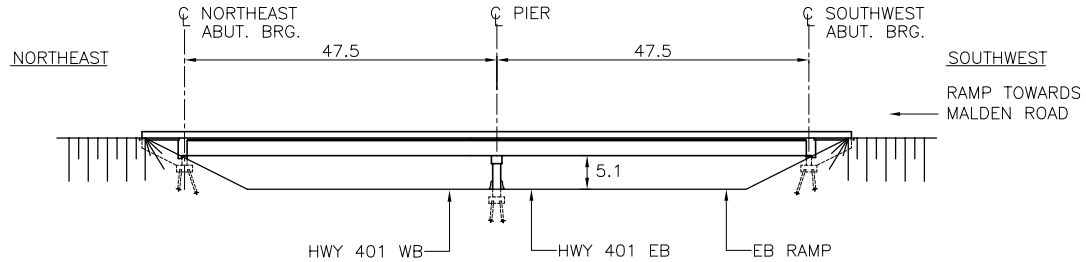
CROSS-SECTION SKETCH
1:200

LENGTH (m)	35	WIDTH (m)	40.85
STRUCTURAL DEPTH (m)	2.2	SPAN/DEPTH RATIO	16
SKEW ANGLE	15°	VERTICAL CLEARANCE (m)	5.1
UNIT PRICE (\$/m ²)	NEW STRUCTURE REHABILITATION	2,000 ----	ESTIMATED COST (\$) 2,860,000
COMMENTS (SPECIAL CONSTRUCTION & DESIGN FEATURES)			
NAME OF CONSULTANT (FOR PLANNING)	URS CANADA INC.	DATE	FEBRUARY 2008

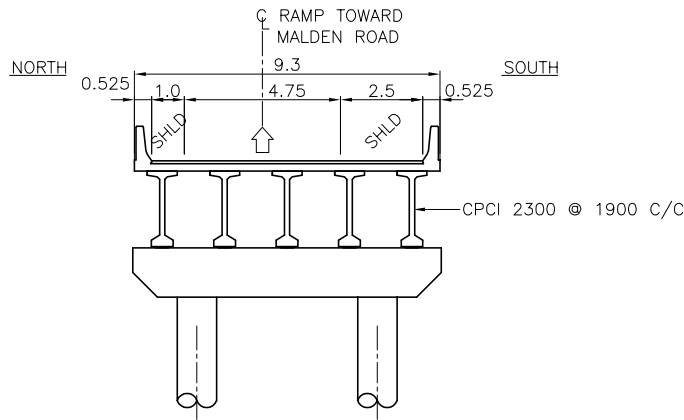
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PLOTDATE: Mar 17, 2008 2:51 pm

STRUCTURAL PLANNING SHEET

W.O.NO.	----	CORRIDOR	HC-T	ROUTE	ALIGNMENT ALTERNATIVE 'THE PARKWAY'
STRUCTURE I.D.	BR-11	SITE NO.	----	LOCATION	RAMP TOWARDS MALDEN ROAD ABOVE HWY 401
STRUCTURE NAME	RAMP W-E UNDERPASS			<input type="checkbox"/> EXISTING <input checked="" type="checkbox"/> NEW	<input type="checkbox"/> OVERPASS <input type="checkbox"/> BELOW GRADE HWY <input checked="" type="checkbox"/> UNDERPASS <input type="checkbox"/> APPROACH RAMP
STRUCTURE DESCRIPTION	TWO SPANS CPCI 2300 GIRDERS WITH SEMI-INTEGRAL ABUTMENTS				



ELEVATION SKETCH
1:1000



CROSS-SECTION SKETCH
1:200

LENGTH (m)	95	WIDTH (m)	9.30
STRUCTURAL DEPTH (m)	2.6	SPAN/DEPTH RATIO	17
SKEW ANGLE	60°	VERTICAL CLEARANCE (m)	5.1
UNIT PRICE (\$/m ²)	NEW STRUCTURE 2,100 REHABILITATION ----	ESTIMATED COST (\$)	1,855,000
COMMENTS (SPECIAL CONSTRUCTION & DESIGN FEATURES)	SEMI-INTEGRAL ABUTMENTS DUE TO 60° SKEW		
NAME OF CONSULTANT (FOR PLANNING)	URS CANADA INC.	DATE	FEBRUARY 2008

FILENAME: C:\projects\01\BRIDGE\LAST REPORT\Ba-2C-REV-FE-BD\BridgeAlternative-2C-REV-Feb-2008-BRIDGES.dwg
 PLOTDATE: Mar 17, 2008 2:52pm

STRUCTURAL PLANNING SHEET

W.O.NO.	----	CORRIDOR	HC-T	ROUTE	ALIGNMENT ALTERNATIVE 'THE PARKWAY'
STRUCTURE I.D.	TB-1	SITE NO.	----	LOCATION	TRAIL OVER HWY 3 AT WEST OF HOWARD AVENUE
STRUCTURE NAME	TRAIL BRIDGE ABOVE HWY 3 AT WEST OF HOWARD AVENUE		<input type="checkbox"/> EXISTING <input checked="" type="checkbox"/> NEW		<input type="checkbox"/> OVERPASS <input type="checkbox"/> BELOW GRADE HWY <input checked="" type="checkbox"/> UNDERPASS <input type="checkbox"/> APPROACH RAMP
STRUCTURE DESCRIPTION	SINGLE SPAN PRESTRESSED BOX GIRDERS WITH SEMI-INTEGRAL ABUTMENTS AND RSS WALLS				
<p>ELEVATION SKETCH 1:500</p>					
<p>CROSS-SECTION SKETCH 1:100</p>					
LENGTH (m)	26		WIDTH (m)	4.6	
STRUCTURAL DEPTH (m)	1.05		SPAN/DEPTH RATIO	25	
SKEW ANGLE	NO		VERTICAL CLEARANCE (m)	5.4	
UNIT PRICE(\$/m2)	NEW STRUCTURE	2,400		ESTIMATED COST (\$)	287,000
	REHABILITATION	----			
COMMENTS (SPECIAL CONSTRUCTION & DESIGN FEATURES)					
NAME OF CONSULTANT (FOR PLANNING)	URS CANADA INC.		DATE	FEBRUARY 2008	

FILENAME: C:\projects\2008\DRG_LAST REPORT\TRAIL-BRIDGES\BridgesAlternative-2C-REV-Feb-2008-BRIDGES.dwg
 PLOTDATE: Mar 17, 2008 3:55pm

STRUCTURAL PLANNING SHEET

W.O.NO.	----	CORRIDOR	HC-T	ROUTE	ALIGNMENT ALTERNATIVE 'PARKWAY-REVISED'
STRUCTURE I.D.	TB-3	SITE NO.	----	LOCATION	TRAIL OVER HWY 3 WEST OF COUSINEAU ROAD
STRUCTURE NAME	TRAIL BRIDGE ABOVE HWY 3 AT WEST OF COUSINEAU ROAD			<input type="checkbox"/> EXISTING <input checked="" type="checkbox"/> NEW	<input type="checkbox"/> OVERPASS <input checked="" type="checkbox"/> UNDERPASS <input type="checkbox"/> BELOW GRADE HWY <input type="checkbox"/> APPROACH RAMP
STRUCTURE DESCRIPTION	SINGLE SPAN PRESTRESSED BOX GIRDERS WITH SEMI-INTEGRAL ABUTMENTS AND RSS WALLS				
<p>ELEVATION SKETCH 1:500</p>					
<p>CROSS-SECTION SKETCH 1:100</p>					
LENGTH (m)	26		WIDTH (m)	4.6	
STRUCTURAL DEPTH (m)	1.05		SPAN/DEPTH RATIO	25	
SKEW ANGLE	NO		VERTICAL CLEARANCE (m)	5.4	
UNIT PRICE(\$/m2)	NEW STRUCTURE	2,400		ESTIMATED COST (\$)	287,000
	REHABILITATION	----			
COMMENTS (SPECIAL CONSTRUCTION & DESIGN FEATURES)					
NAME OF CONSULTANT (FOR PLANNING)	URS CANADA INC.		DATE	FEBRUARY 2008	

FILENAME: C:\projects\014\DRG_LAST REPORT\TRAIL-BRIDGES\Bridges\Alternative-2C-REV-Feb-2008-BRIDGES.dwg
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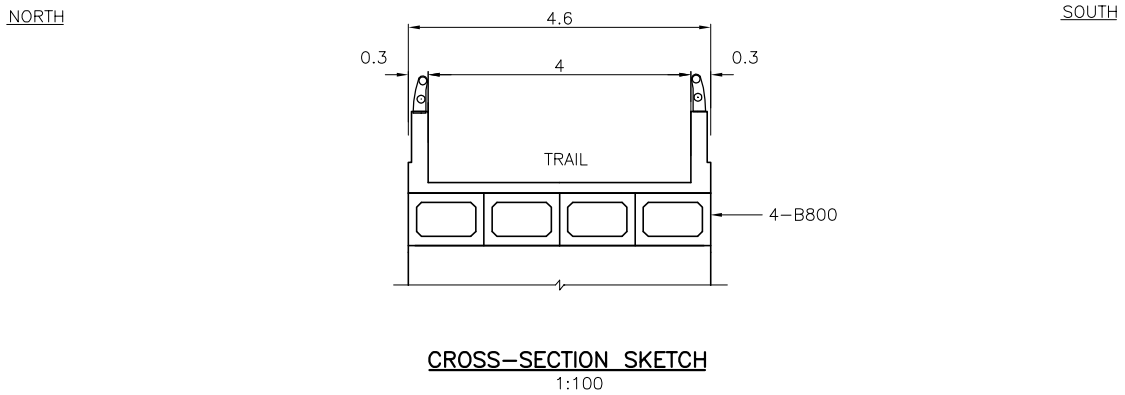
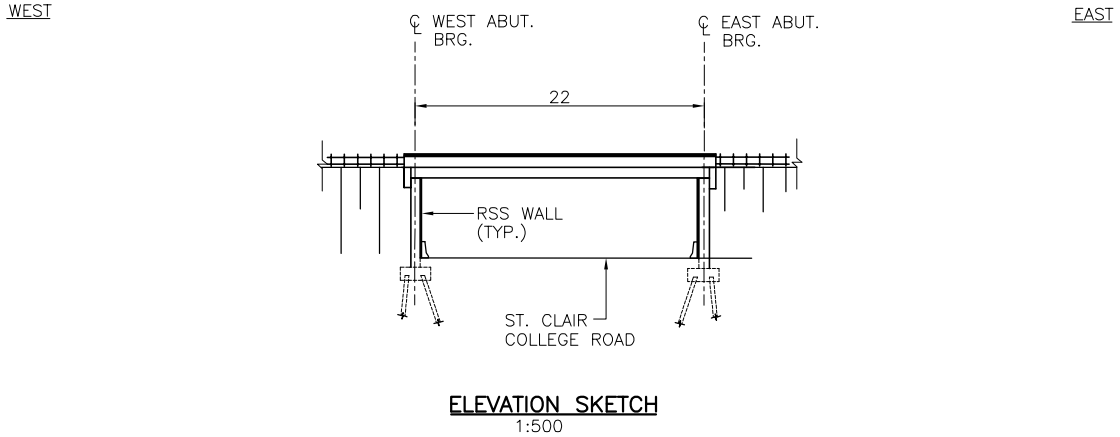
STRUCTURAL PLANNING SHEET

W.O.NO.	----	CORRIDOR	HC-T	ROUTE	ALIGNMENT ALTERNATIVE 'THE PARKWAY'
STRUCTURE I.D.	TB-4	SITE NO.	----	LOCATION	TRAIL OVER CONSINEAU ROAD AT SOUTH OF HWY 401
STRUCTURE NAME	TRAIL BRIDGE ABOVE CONSINEAU ROAD AT SOUTH OF HWY 401			<input type="checkbox"/> EXISTING <input checked="" type="checkbox"/> NEW	<input type="checkbox"/> OVERPASS <input type="checkbox"/> BELOW GRADE HWY <input checked="" type="checkbox"/> UNDERPASS <input type="checkbox"/> APPROACH RAMP
STRUCTURE DESCRIPTION	SINGLE SPAN PRESTRESSED BOX GIRDERS WITH SEMI-INTEGRAL ABUTMENTS AND RSS WALLS				
<p>ELEVATION SKETCH 1:500</p>					
<p>CROSS-SECTION SKETCH 1:100</p>					
LENGTH (m)	22		WIDTH (m)	4.6	
STRUCTURAL DEPTH (m)	0.95		SPAN/DEPTH RATIO	23	
SKEW ANGLE	NO		VERTICAL CLEARANCE (m)	5.4	
UNIT PRICE(\$/m ²)	NEW STRUCTURE	2,400		ESTIMATED COST (\$)	243,000
	REHABILITATION	----			
COMMENTS (SPECIAL CONSTRUCTION & DESIGN FEATURES)					
NAME OF CONSULTANT (FOR PLANNING)	URS CANADA INC.		DATE	FEBRUARY 2008	

FILENAME: C:\projects\CH\DRG_LAST REPORT\TRAIL-BRIDGES\BridgesAlternative-2C-REV-Feb-2008-BRIDGES.dwg
 PLOTDATE: Mar 17, 2008 4:02pm

STRUCTURAL PLANNING SHEET

W.O.NO.	----	CORRIDOR	HC-T	ROUTE	ALIGNMENT ALTERNATIVE 'THE PARKWAY'
STRUCTURE I.D.	TB-5	SITE NO.	----	LOCATION	TRAIL PATH OVER ST CLAIR COLLEGE ROAD AT NORTH OF HWY 401
STRUCTURE NAME	TRAIL BRIDGE ABOVE ST CLAIR COLLEGE ROAD			<input type="checkbox"/> EXISTING <input checked="" type="checkbox"/> NEW	<input type="checkbox"/> OVERPASS <input type="checkbox"/> BELOW GRADE HWY <input checked="" type="checkbox"/> UNDERPASS <input type="checkbox"/> APPROACH RAMP
STRUCTURE DESCRIPTION	SINGLE SPAN PRESTRESSED BOX GIRDERS WITH SEMI-INTEGRAL ABUTMENTS AND RSS WALLS				

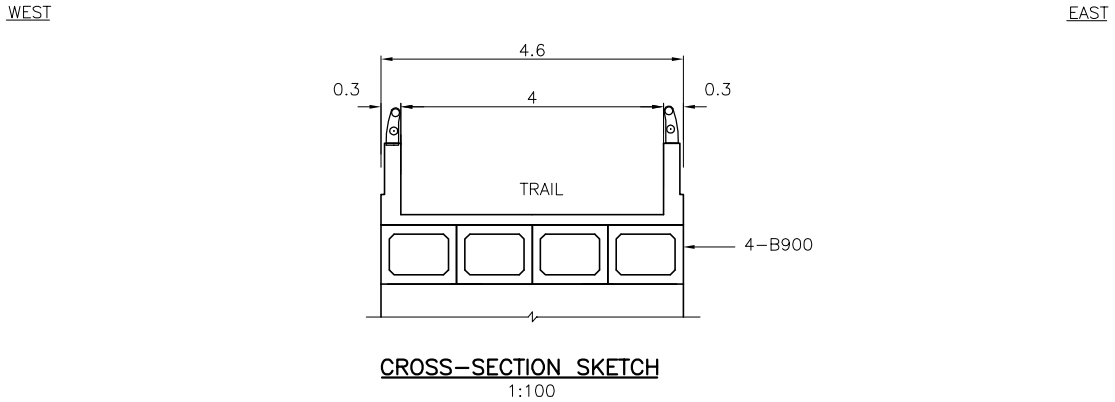
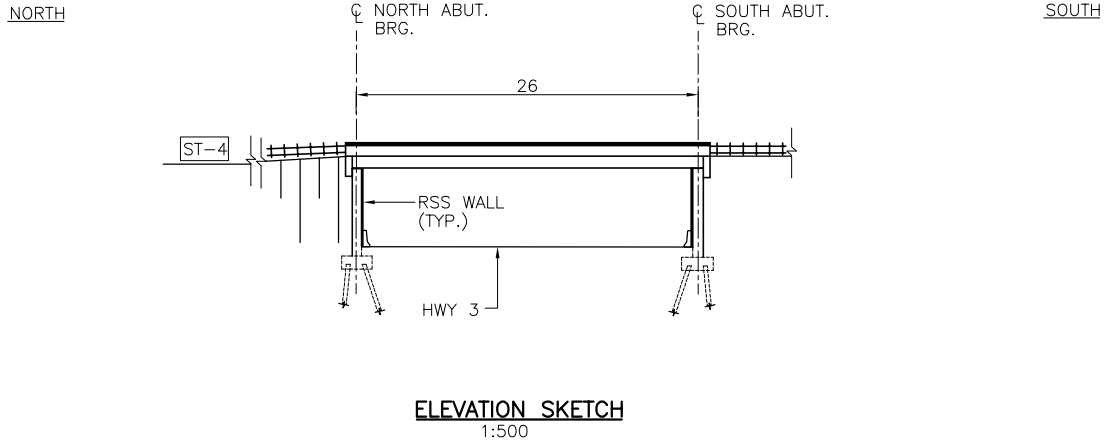


LENGTH (m)	22	WIDTH (m)	4.6
STRUCTURAL DEPTH (m)	0.95	SPAN/DEPTH RATIO	23
SKREW ANGLE	NO	VERTICAL CLEARANCE (m)	5.4
UNIT PRICE(\$/m ²)	NEW STRUCTURE	2,400	ESTIMATED COST (\$)
	REHABILITATION	----	
COMMENTS (SPECIAL CONSTRUCTION & DESIGN FEATURES)			
NAME OF CONSULTANT (FOR PLANNING)	URS CANADA INC.	DATE	FEBRUARY 2008

FILENAME: C:\projects\CH\DRG_LAST REPORT\TRAIL-BRIDGES\Bridges\Alternative-2C-REV-Feb-2008-BRIDGES.dwg
 PLOTDATE: Mar 17, 2008 4:03pm

STRUCTURAL PLANNING SHEET

W.O.NO.	----	CORRIDOR	HC-T	ROUTE	ALIGNMENT ALTERNATIVE 'THE PARKWAY'
STRUCTURE I.D.	TB-6	SITE NO.	----	LOCATION	TRAIL OVER HWY 3 AT WEST OF ST. CLAIR COLLEGE ROAD
STRUCTURE NAME	TRAIL BRIDGE ABOVE HWY 3 AT WEST OF ST. CLAIR COLLEGE ROAD			<input type="checkbox"/> EXISTING <input checked="" type="checkbox"/> NEW	<input type="checkbox"/> OVERPASS <input type="checkbox"/> BELOW GRADE HWY <input checked="" type="checkbox"/> UNDERPASS <input type="checkbox"/> APPROACH RAMP
STRUCTURE DESCRIPTION	SINGLE SPAN PRESTRESSED BOX GIRDERS WITH SEMI-INTEGRAL ABUTMENTS AND RSS WALLS				

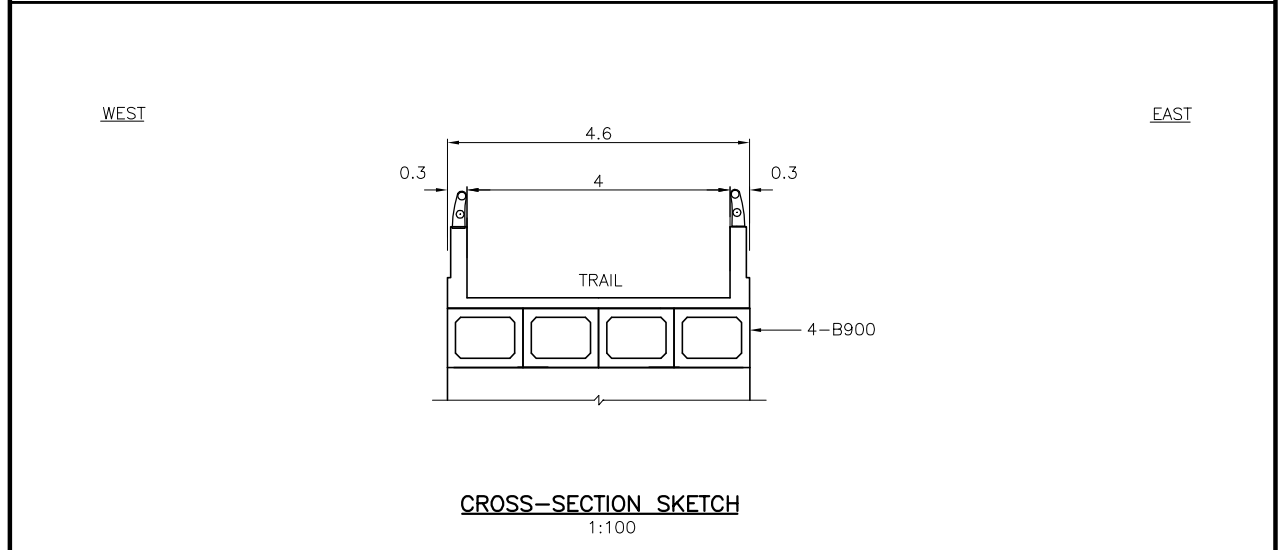
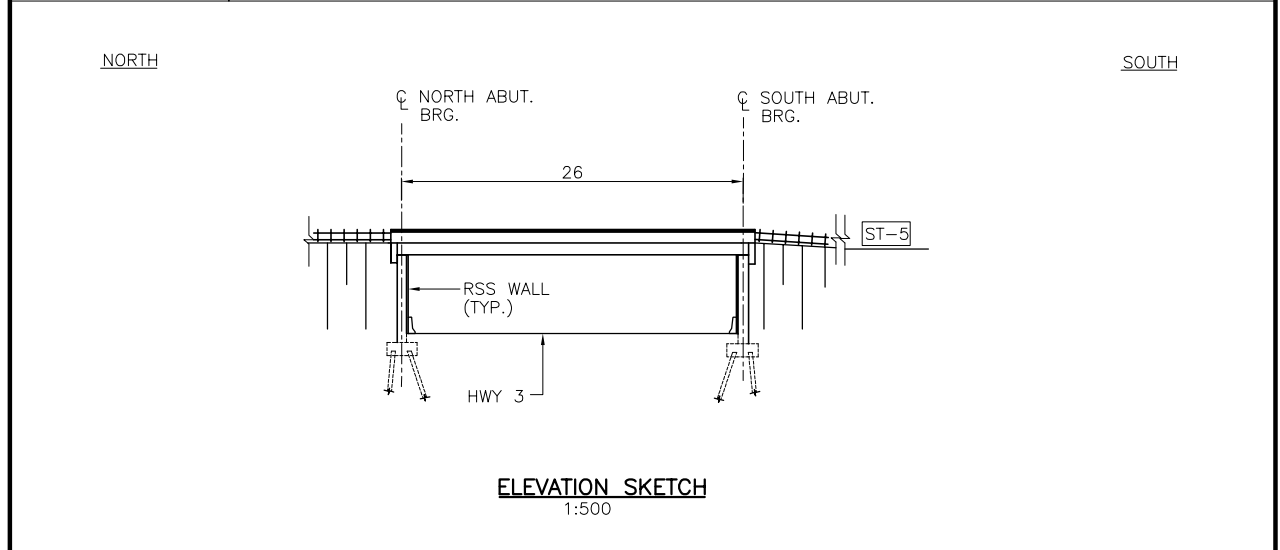


LENGTH (m)	26	WIDTH (m)	4.6
STRUCTURAL DEPTH (m)	1.05	SPAN/DEPTH RATIO	25
SKEW ANGLE	NO	VERTICAL CLEARANCE (m)	5.4
UNIT PRICE(\$/m ²)	NEW STRUCTURE	2,400	ESTIMATED COST (\$)
	REHABILITATION	----	
COMMENTS (SPECIAL CONSTRUCTION & DESIGN FEATURES)			
NAME OF CONSULTANT (FOR PLANNING)	URS CANADA INC.	DATE	FEBRUARY 2008

FILENAME: C:\projects\CHL\DRG_LAST REPORT\TRAIL-BRIDGES\BridgesAlternative-2C-REV-Feb-2008-BRIDGES.dwg
 PLOTDATE: Mar 17, 2008 4:03pm

STRUCTURAL PLANNING SHEET

W.O.NO.	----	CORRIDOR	HC-T	ROUTE	ALIGNMENT ALTERNATIVE 'THE PARKWAY'
STRUCTURE I.D.	TB-7	SITE NO.	----	LOCATION	TRAIL OVER HWY 3 AT EAST OF HURON CHURCH LINE
STRUCTURE NAME	TRAIL BRIDGE ABOVE HWY 3 AT EAST OF HURON CHURCH LINE			<input type="checkbox"/> EXISTING <input checked="" type="checkbox"/> NEW	<input type="checkbox"/> OVERPASS <input checked="" type="checkbox"/> UNDERPASS <input type="checkbox"/> BELOW GRADE HWY <input type="checkbox"/> APPROACH RAMP
STRUCTURE DESCRIPTION	SINGLE SPAN PRESTRESSED BOX GIRDERS WITH SEMI-INTEGRAL ABUTMENTS AND RSS WALLS				

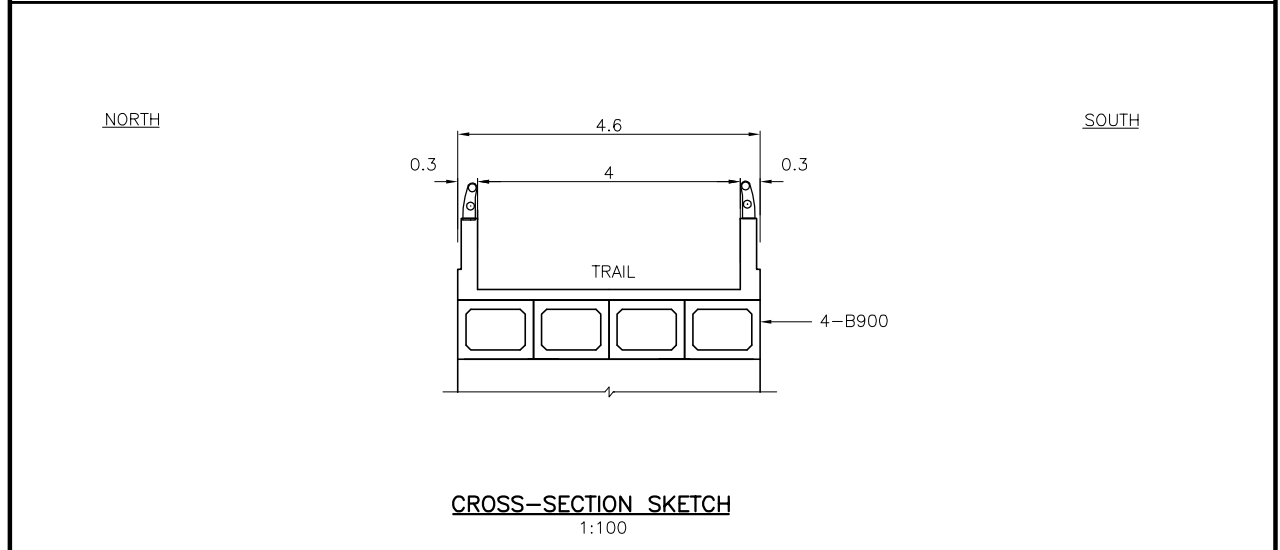
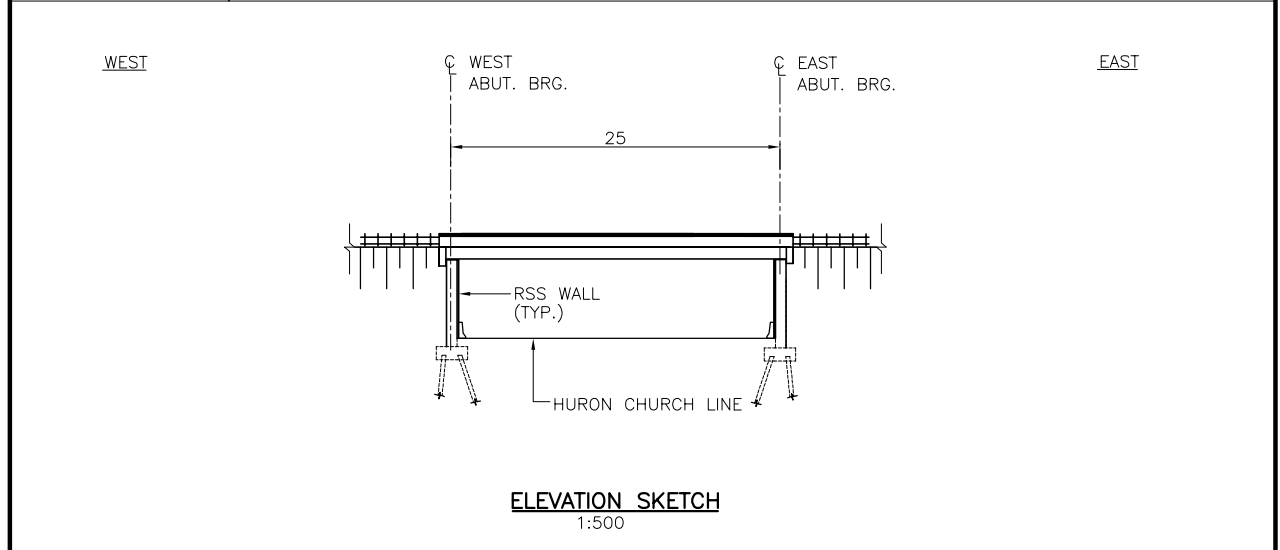


LENGTH (m)	26	WIDTH (m)	4.6
STRUCTURAL DEPTH (m)	1.05	SPAN/DEPTH RATIO	25
SKEW ANGLE	NO	VERTICAL CLEARANCE (m)	5.4
UNIT PRICE(\$/m ²)	NEW STRUCTURE	2,400	ESTIMATED COST (\$)
	REHABILITATION	----	
COMMENTS (SPECIAL CONSTRUCTION & DESIGN FEATURES)			
NAME OF CONSULTANT (FOR PLANNING)	URS CANADA INC.	DATE	FEBRUARY 2008

FILENAME: \\C:\projects\2008\2008-02-17\TRAIL-BRIDGES\Bridges\Alternative-2C-REV-17-2008-403p.m
 PLOT DATE: Mar 17, 2008 4:03pm

STRUCTURAL PLANNING SHEET

W.O.NO.	----	CORRIDOR	HC-T	ROUTE	ALIGNMENT ALTERNATIVE "THE PARKWAY"
STRUCTURE I.D.	TB-8	SITE NO.	----	LOCATION	TRAIL OVER HURON CHURCH LINE
STRUCTURE NAME	TRAIL BRIDGE ABOVE HURON CHURCH LINE			<input type="checkbox"/> EXISTING <input checked="" type="checkbox"/> NEW	<input type="checkbox"/> OVERPASS <input type="checkbox"/> BELOW GRADE HWY <input checked="" type="checkbox"/> UNDERPASS <input type="checkbox"/> APPROACH RAMP
STRUCTURE DESCRIPTION	SINGLE SPAN PRESTRESSED BOX GIRDERS WITH SEMI-INTEGRAL ABUTMENTS AND RSS WALLS				



LENGTH (m)	25	WIDTH (m)	4.6
STRUCTURAL DEPTH (m)	1.05	SPAN/DEPTH RATIO	24
SKREW ANGLE	NO	VERTICAL CLEARANCE (m)	5.4
UNIT PRICE(\$/m2)	NEW STRUCTURE	2,400	ESTIMATED COST (\$)
	REHABILITATION	----	
COMMENTS (SPECIAL CONSTRUCTION & DESIGN FEATURES)			
NAME OF CONSULTANT (FOR PLANNING)	URS CANADA INC.	DATE	FEBRUARY 2008

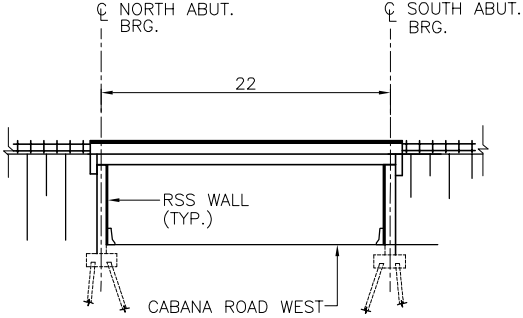
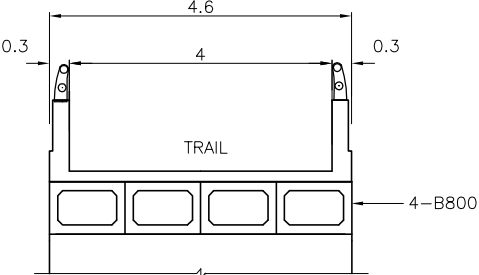
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 PLOTDATE: Mar 17, 2008 4:04pm

STRUCTURAL PLANNING SHEET

W.O.NO.	----	CORRIDOR	HC-T	ROUTE	ALIGNMENT ALTERNATIVE 'THE PARKWAY'
STRUCTURE I.D.	TB-9	SITE NO.	----	LOCATION	TRAIL OVER HWY 3 AT SOUTH OF CABANA ROAD WEST
STRUCTURE NAME	TRAIL BRIDGE ABOVE HWY 3 AT SOUTH OF CABANA ROAD WEST			<input type="checkbox"/> EXISTING <input checked="" type="checkbox"/> NEW	<input type="checkbox"/> OVERPASS <input type="checkbox"/> BELOW GRADE HWY <input checked="" type="checkbox"/> UNDERPASS <input type="checkbox"/> APPROACH RAMP
STRUCTURE DESCRIPTION	SINGLE SPAN CPCI 1500 GIRDERS WITH SEMI-INTEGRAL ABUTMENTS AND RSS WALLS				
<p>ELEVATION SKETCH 1:500</p>					
<p>CROSS-SECTION SKETCH 1:100</p>					
LENGTH (m)	33		WIDTH (m)	4.6	
STRUCTURAL DEPTH (m)	1.65		SPAN/DEPTH RATIO	20	
SKEW ANGLE	14°		VERTICAL CLEARANCE (m)	5.4	
UNIT PRICE(\$/m2)	NEW STRUCTURE	2,200		ESTIMATED COST (\$)	334,000
	REHABILITATION	----			
COMMENTS (SPECIAL CONSTRUCTION & DESIGN FEATURES)					
NAME OF CONSULTANT (FOR PLANNING)	URS CANADA INC.		DATE	FEBRUARY 2008	

FILENAME: C:\projects\CH\DRG_LAST REPORT\TRAIL-BRIDGES\Bridges\Alternative-2C-REV-Feb-2008-BRIDGES.dwg
 PLOTDATE: Mar 17, 2008 4:04pm

STRUCTURAL PLANNING SHEET

W.O.NO.	----	CORRIDOR	HC-T	ROUTE	ALIGNMENT ALTERNATIVE "THE PARKWAY"
STRUCTURE I.D.	TB-10	SITE NO.	----	LOCATION	TRAIL OVER CABANA ROAD WEST
STRUCTURE NAME	TRAIL BRIDGE ABOVE CABANA ROAD WEST			<input type="checkbox"/> EXISTING <input checked="" type="checkbox"/> NEW	<input type="checkbox"/> OVERPASS <input type="checkbox"/> BELOW GRADE HWY <input checked="" type="checkbox"/> UNDERPASS <input type="checkbox"/> APPROACH RAMP
STRUCTURE DESCRIPTION	SINGLE SPAN PRESTRESSED BOX GIRDERS WITH SEMI-INTEGRAL ABUTMENTS AND RSS WALLS				
<div style="display: flex; justify-content: space-between; margin-bottom: 10px;"> NORTH SOUTH </div>  <p style="text-align: center;">ELEVATION SKETCH 1:500</p>					
<div style="display: flex; justify-content: space-between; margin-bottom: 10px;"> EAST WEST </div>  <p style="text-align: center;">CROSS-SECTION SKETCH 1:100</p>					
LENGTH (m)	22		WIDTH (m)	4.6	
STRUCTURAL DEPTH (m)	0.95		SPAN/DEPTH RATIO	23	
SKEW ANGLE	11°		VERTICAL CLEARANCE (m)	5.4	
UNIT PRICE(\$/m2)	NEW STRUCTURE	2,400		ESTIMATED COST (\$)	243,000
	REHABILITATION	----			
COMMENTS (SPECIAL CONSTRUCTION & DESIGN FEATURES)					
NAME OF CONSULTANT (FOR PLANNING)	URS CANADA INC.		DATE	FEBRUARY 2008	

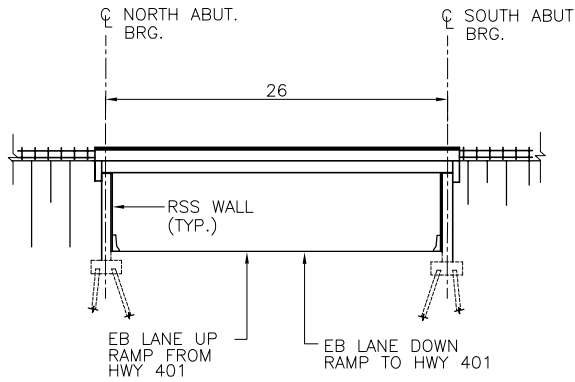
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 PLOTDATE: Mar 17, 2008 4:05pm

STRUCTURAL PLANNING SHEET

W.O.NO.	----	CORRIDOR	HC-T	ROUTE	ALIGNMENT ALTERNATIVE "THE PARKWAY"
STRUCTURE I.D.	TB-11	SITE NO.	----	LOCATION	TRAIL OVER HWY 401 EB RAMP AT SOUTH OF REDDOCK ST.
STRUCTURE NAME	TRAIL BRIDGE ABOVE HWY 401 EB LANE RAMP AT SOUTH OF REDDOCK STREET		<input type="checkbox"/> EXISTING <input checked="" type="checkbox"/> NEW		<input type="checkbox"/> OVERPASS <input type="checkbox"/> BELOW GRADE HWY <input checked="" type="checkbox"/> UNDERPASS <input type="checkbox"/> APPROACH RAMP
STRUCTURE DESCRIPTION	SINGLE SPAN PRESTRESSED BOX GIRDERS WITH SEMI-INTEGRAL ABUTMENTS AND RSS WALLS				

NORTHWEST

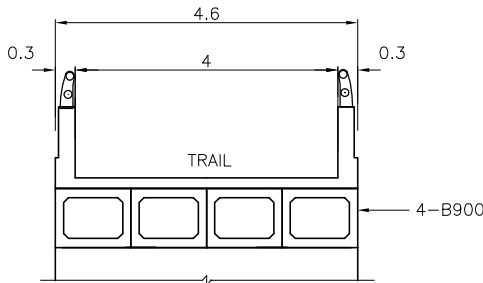
SOUTHEAST



ELEVATION SKETCH
1:500

NORTHEAST

SOUTHWEST



CROSS-SECTION SKETCH
1:100

LENGTH (m)	26	WIDTH (m)	4.6	
STRUCTURAL DEPTH (m)	1.05	SPAN/DEPTH RATIO	25	
SKEW ANGLE	30°	VERTICAL CLEARANCE (m)	5.4	
UNIT PRICE(\$/m ²)	NEW STRUCTURE	2,400	ESTIMATED COST (\$)	287,000
	REHABILITATION	----		
COMMENTS (SPECIAL CONSTRUCTION & DESIGN FEATURES)				
NAME OF CONSULTANT (FOR PLANNING)	URS CANADA INC.	DATE	FEBRUARY 2008	

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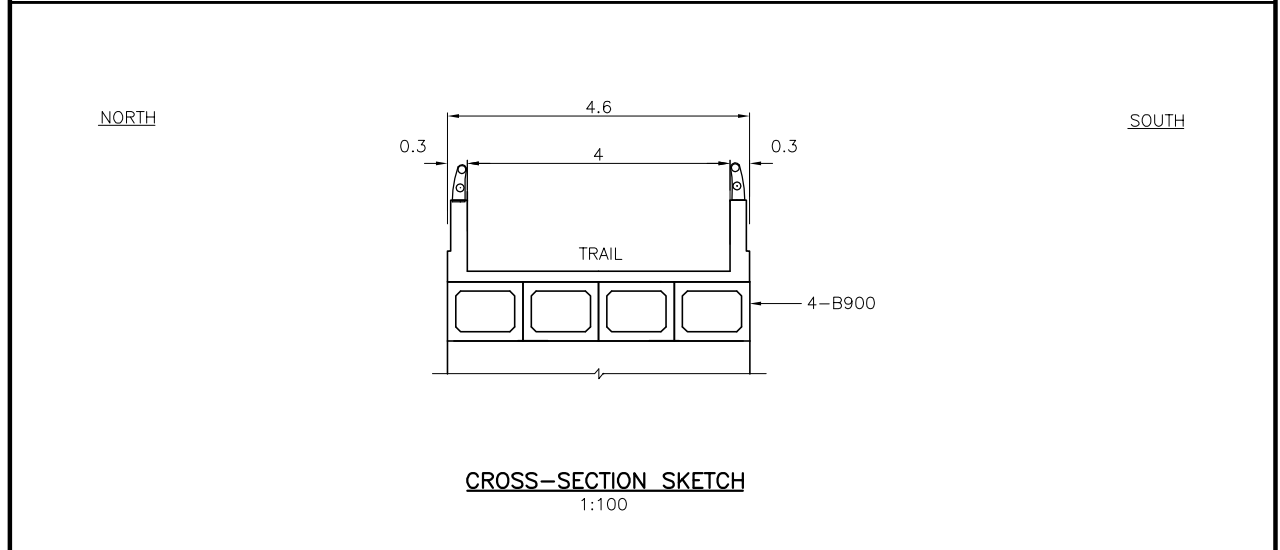
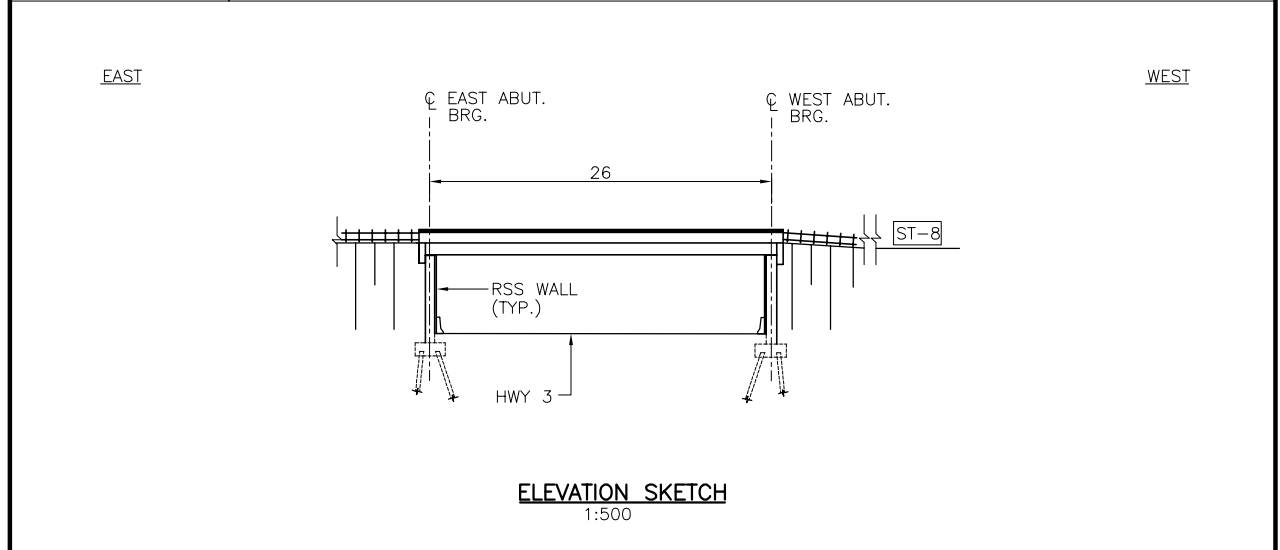
STRUCTURAL PLANNING SHEET

W.O.NO.	----	CORRIDOR	HC-T	ROUTE	ALIGNMENT ALTERNATIVE "THE PARKWAY"
STRUCTURE I.D.	TB-12	SITE NO.	----	LOCATION	TRAIL OVER PULFORD STREET
STRUCTURE NAME	TRAIL BRIDGE ABOVE PULFORD STREET			<input type="checkbox"/> EXISTING <input checked="" type="checkbox"/> NEW	<input type="checkbox"/> OVERPASS <input type="checkbox"/> BELOW GRADE HWY <input checked="" type="checkbox"/> UNDERPASS <input type="checkbox"/> APPROACH RAMP
STRUCTURE DESCRIPTION	SINGLE SPAN PRESTRESSED BOX GIRDERS WITH SEMI-INTEGRAL ABUTMENTS AND RSS WALLS				
<p>NORTH SOUTH</p> <p style="text-align: center;">ELEVATION SKETCH 1:500</p>					
<p>WEST EAST</p> <p style="text-align: center;">CROSS-SECTION SKETCH 1:100</p>					
LENGTH (m)	22		WIDTH (m)	4.6	
STRUCTURAL DEPTH (m)	0.95		SPAN/DEPTH RATIO	23	
SKEW ANGLE	NO		VERTICAL CLEARANCE (m)	5.4	
UNIT PRICE(\$/m2)	NEW STRUCTURE	2,400		ESTIMATED COST (\$)	243,000
	REHABILITATION	----			
COMMENTS (SPECIAL CONSTRUCTION & DESIGN FEATURES)					
NAME OF CONSULTANT (FOR PLANNING)	URS CANADA INC.		DATE	FEBRUARY 2008	

FILENAME:\Compass\CH\DRG_LAST REPORT\TRAIL-BRIDGES\Bridges\Alternative-2C-REV-Feb-2008-BRIDGES.dwg
 PLOTDATE: Mar 17, 2008 4:03pm

STRUCTURAL PLANNING SHEET

W.O.NO.	----	CORRIDOR	HC-T	ROUTE	ALIGNMENT ALTERNATIVE 'THE PARKWAY'
STRUCTURE I.D.	TB-13	SITE NO.	----	LOCATION	TRAIL OVER HWY 3 AT NORTH OF PULFORD STREET
STRUCTURE NAME	TRAIL BRIDGE ABOVE HWY 3 AT NORTH OF PULFORD STREET			<input type="checkbox"/> EXISTING <input checked="" type="checkbox"/> NEW	<input type="checkbox"/> OVERPASS <input type="checkbox"/> BELOW GRADE HWY <input checked="" type="checkbox"/> UNDERPASS <input type="checkbox"/> APPROACH RAMP
STRUCTURE DESCRIPTION	SINGLE SPAN PRESTRESSED BOX GIRDERS WITH SEMI-INTEGRAL ABUTMENTS AND RSS WALLS				

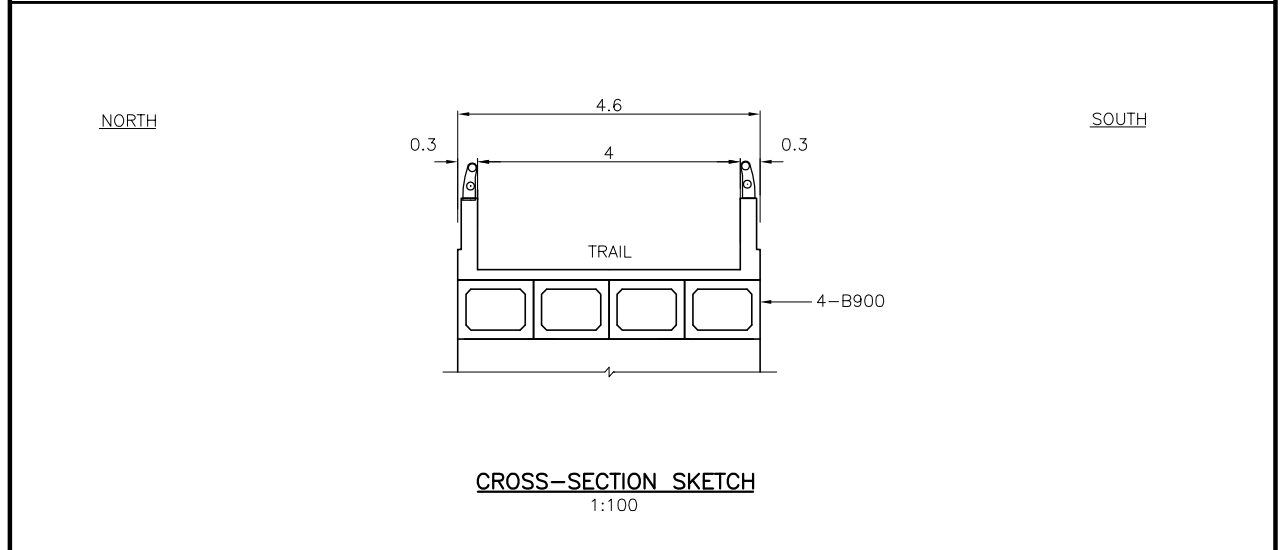
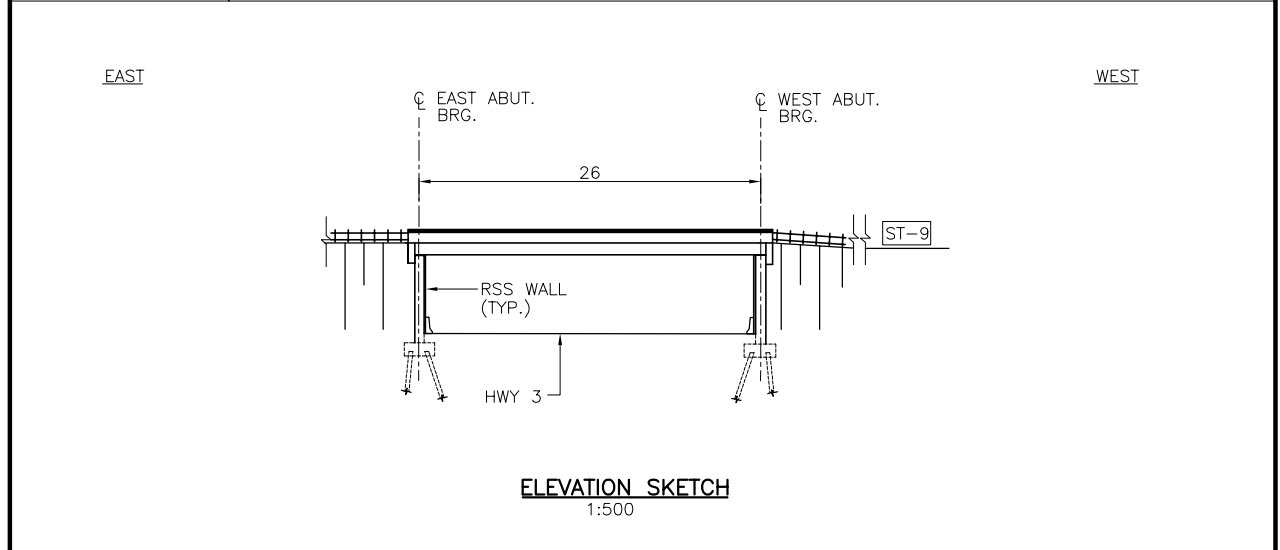


LENGTH (m)	26	WIDTH (m)	4.6
STRUCTURAL DEPTH (m)	1.05	SPAN/DEPTH RATIO	25
SKREW ANGLE	NO	VERTICAL CLEARANCE (m)	5.4
UNIT PRICE(\$/m ²)	NEW STRUCTURE	2,400	ESTIMATED COST (\$)
	REHABILITATION	----	
COMMENTS (SPECIAL CONSTRUCTION & DESIGN FEATURES)			
NAME OF CONSULTANT (FOR PLANNING)	URS CANADA INC.	DATE	FEBRUARY 2008

FILENAME: C:\projects\014\DRG_LAST REPORT\TRAIL-BRIDGES\Bridges\Alternative-2C-REV-17-2008-400pm.dwg
 PLOTDATE: Mar 17, 2008 4:00pm

STRUCTURAL PLANNING SHEET

W.O.NO.	----	CORRIDOR	HC-T	ROUTE	ALIGNMENT ALTERNATIVE 'THE PARKWAY'
STRUCTURE I.D.	TB-14	SITE NO.	----	LOCATION	TRAIL OVER HWY 3 AT EAST OF GRAND MARAIS ROAD WEST
STRUCTURE NAME	TRAIL BRIDGE ABOVE HWY 3 AT EAST OF GRAND MARAIS ROAD WEST			<input type="checkbox"/> EXISTING <input checked="" type="checkbox"/> NEW	<input type="checkbox"/> OVERPASS <input type="checkbox"/> BELOW GRADE HWY <input checked="" type="checkbox"/> UNDERPASS <input type="checkbox"/> APPROACH RAMP
STRUCTURE DESCRIPTION	SINGLE SPAN PRESTRESSED BOX GIRDERS WITH SEMI-INTEGRAL ABUTMENTS AND RSS WALLS				



LENGTH (m)	26	WIDTH (m)	4.6
STRUCTURAL DEPTH (m)	1.05	SPAN/DEPTH RATIO	25
SKEW ANGLE	NO	VERTICAL CLEARANCE (m)	5.4
UNIT PRICE(\$/m ²)	NEW STRUCTURE	2,400	ESTIMATED COST (\$)
	REHABILITATION	----	
COMMENTS (SPECIAL CONSTRUCTION & DESIGN FEATURES)			
NAME OF CONSULTANT (FOR PLANNING)	URS CANADA INC.	DATE	FEBRUARY 2008

FILENAME: C:\projects\CH1\DRG_LAST REPORT\TRAIL-BRIDGES\Bridges\Alternative-2C-REV-1-Feb-2008-BRIDGES.dwg
 PLOTDATE: Mar 17, 2008 4:08pm

STRUCTURAL PLANNING SHEET

W.O.NO.	----	CORRIDOR	HC-T	ROUTE	ALIGNMENT ALTERNATIVE 'THE PARKWAY'
STRUCTURE I.D.	TB-15	SITE NO.	----	LOCATION	TRAIL OVER GRAND MARAIS ROAD WEST AT EAST OF HWY 401
STRUCTURE NAME	TRAIL BRIDGE ABOVE GRAND MARAIS ROAD WEST AT EAST OF HWY 401			<input type="checkbox"/> EXISTING <input checked="" type="checkbox"/> NEW	<input type="checkbox"/> OVERPASS <input checked="" type="checkbox"/> UNDERPASS <input type="checkbox"/> BELOW GRADE HWY <input type="checkbox"/> APPROACH RAMP
STRUCTURE DESCRIPTION	SINGLE SPAN PRESTRESSED BOX GIRDERS WITH SEMI-INTEGRAL ABUTMENTS AND RSS WALLS				
<p>NORTH</p> <p>SOUTH</p> <p>ELEVATION SKETCH 1:500</p>					
<p>WEST</p> <p>EAST</p> <p>CROSS-SECTION SKETCH 1:100</p>					
LENGTH (m)	22		WIDTH (m)	4.6	
STRUCTURAL DEPTH (m)	0.95		SPAN/DEPTH RATIO	2.3	
SKEW ANGLE	14°		VERTICAL CLEARANCE (m)	5.4	
UNIT PRICE(\$/m2)	NEW STRUCTURE	2,400		ESTIMATED COST (\$)	243,000
	REHABILITATION	----			
COMMENTS (SPECIAL CONSTRUCTION & DESIGN FEATURES)					
NAME OF CONSULTANT (FOR PLANNING)	URS CANADA INC.		DATE	FEBRUARY 2008	

FILENAME: C:\projects\014\DRG_LAST REPORT\TRAIL-BRIDGES\Bridges\Alternative-2C-REV-Feb-2008-BRIDGES.dwg
 PLOTDATE: Mar 17, 2008 4:07pm

STRUCTURAL PLANNING SHEET

W.O.NO.	----	CORRIDOR	HC-T	ROUTE	ALIGNMENT ALTERNATIVE "THE PARKWAY"
STRUCTURE I.D.	TB-17	SITE NO.	----	LOCATION	TRAIL OVER HWY 3 AT SOUTH OF LABELLE STREET
STRUCTURE NAME	TRAIL BRIDGE ABOVE HWY 3 AT SOUTH OF LABELLE STREET		<input type="checkbox"/> EXISTING <input checked="" type="checkbox"/> NEW		<input type="checkbox"/> OVERPASS <input type="checkbox"/> BELOW GRADE HWY <input checked="" type="checkbox"/> UNDERPASS <input type="checkbox"/> APPROACH RAMP
STRUCTURE DESCRIPTION	SINGLE SPAN PRESTRESSED BOX GIRDERS WITH SEMI-INTEGRAL ABUTMENTS AND RSS WALLS				
<p>ELEVATION SKETCH 1:500</p>					
<p>CROSS-SECTION SKETCH 1:100</p>					
LENGTH (m)	19		WIDTH (m)	4.6	
STRUCTURAL DEPTH (m)	0.85		SPAN/DEPTH RATIO	22	
SKEW ANGLE	NO		VERTICAL CLEARANCE (m)	5.4	
UNIT PRICE(\$/m ²)	NEW STRUCTURE	2,400		ESTIMATED COST (\$)	210,000
	REHABILITATION	----			
COMMENTS (SPECIAL CONSTRUCTION & DESIGN FEATURES)					
NAME OF CONSULTANT (FOR PLANNING)	URS CANADA INC.		DATE	FEBRUARY 2008	

FILENAME: C:\projects\CHS\DRG_LAST REPORT\TRAIL-BRIDGES\BridgesAlternative-2C-REV-Feb-2008-BRIDGES.dwg
 PLOTDATE: Mar 17, 2008 4:07 pm

STRUCTURAL PLANNING SHEET

W.O.NO.	----	CORRIDOR	HC-T	ROUTE	ALIGNMENT ALTERNATIVE 'THE PARKWAY'
STRUCTURE I.D.	TB-18	SITE NO.	----	LOCATION	TRAIL OVER BETHLEHEM AVENUE
STRUCTURE NAME	TRAIL BRIDGE ABOVE BETHLEHEM AVENUE			<input type="checkbox"/> EXISTING <input checked="" type="checkbox"/> NEW	<input type="checkbox"/> OVERPASS <input type="checkbox"/> BELOW GRADE HWY <input checked="" type="checkbox"/> UNDERPASS <input type="checkbox"/> APPROACH RAMP
STRUCTURE DESCRIPTION	SINGLE SPAN PRESTRESSED BOX GIRDERS WITH SEMI-INTEGRAL ABUTMENTS AND RSS WALLS				
<p>ELEVATION SKETCH 1:500</p>					
<p>CROSS-SECTION SKETCH 1:100</p>					
LENGTH (m)	19		WIDTH (m)	4.6	
STRUCTURAL DEPTH (m)	0.85		SPAN/DEPTH RATIO	22	
SKEW ANGLE	NO		VERTICAL CLEARANCE (m)	5.4	
UNIT PRICE(\$/m2)	NEW STRUCTURE	2,400		ESTIMATED COST (\$)	210,000
	REHABILITATION	----			
COMMENTS (SPECIAL CONSTRUCTION & DESIGN FEATURES)					
NAME OF CONSULTANT (FOR PLANNING)	URS CANADA INC.		DATE	FEBRUARY 2008	

FILENAME: C:\projects\CHL\DRG_LAST REPORT\TRAIL-BRIDGES\Bridges\Alternative-2C-REV-Feb-2008-BRIDGES.dwg
 PLOTDATE: Mar 17, 2008 4:07pm

STRUCTURAL PLANNING SHEET

W.O.NO.	----	CORRIDOR	HC-T	ROUTE	ALIGNMENT ALTERNATIVE 'THE PARKWAY'
STRUCTURE I.D.	TB-19	SITE NO.	----	LOCATION	TRAIL OVER EB LANES OF HWY 3 AT EAST OF BETHLEHEM AVE.
STRUCTURE NAME	TRAIL BRIDGE ABOVE EB HWY 3 AT EAST OF BETHLEHEM AVENUE			<input type="checkbox"/> EXISTING <input checked="" type="checkbox"/> NEW	<input type="checkbox"/> OVERPASS <input type="checkbox"/> BELOW GRADE HWY <input checked="" type="checkbox"/> UNDERPASS <input type="checkbox"/> APPROACH RAMP
STRUCTURE DESCRIPTION	SINGLE SPAN PRESTRESSED BOX GIRDERS WITH SEMI-INTEGRAL ABUTMENTS AND RSS WALLS				
<p>ELEVATION SKETCH 1:500</p>					
<p>CROSS-SECTION SKETCH 1:100</p>					
LENGTH (m)	17		WIDTH (m)	4.6	
STRUCTURAL DEPTH (m)	0.85		SPAN/DEPTH RATIO	20	
SKEW ANGLE	10°		VERTICAL CLEARANCE (m)	5.4	
UNIT PRICE(\$/m ²)	NEW STRUCTURE	2,400		ESTIMATED COST (\$)	188,000
	REHABILITATION	----			
COMMENTS (SPECIAL CONSTRUCTION & DESIGN FEATURES)					
NAME OF CONSULTANT (FOR PLANNING)	URS CANADA INC.		DATE	FEBRUARY 2008	

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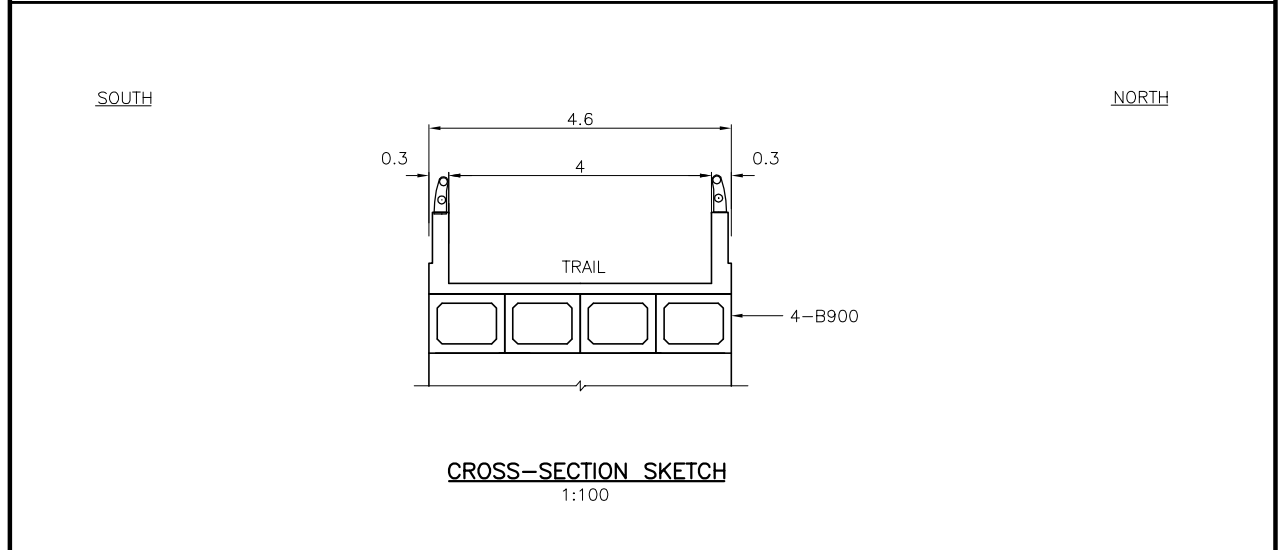
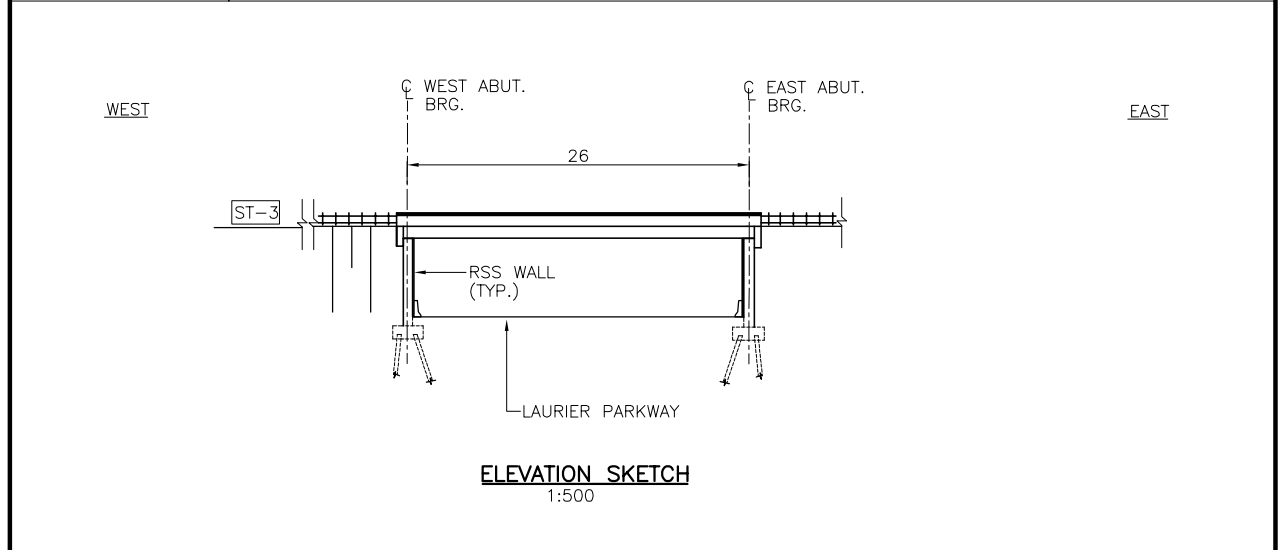
STRUCTURAL PLANNING SHEET

W.O.NO.	----	CORRIDOR	HC-T	ROUTE	ALIGNMENT ALTERNATIVE 'THE PARKWAY'
STRUCTURE I.D.	TB-20	SITE NO.	----	LOCATION	TRAIL OVER HOWARD AVENUE AT SOUTH OF HWY 401.
STRUCTURE NAME	TRAIL BRIDGE ABOVE HOWARD AVENUE AT SOUTH OF HWY 401		<input type="checkbox"/> EXISTING <input checked="" type="checkbox"/> NEW	<input type="checkbox"/> OVERPASS <input checked="" type="checkbox"/> UNDERPASS	<input type="checkbox"/> BELOW GRADE HWY <input type="checkbox"/> APPROACH RAMP
STRUCTURE DESCRIPTION	SINGLE SPAN PRESTRESSED BOX GIRDERS WITH SEMI-INTEGRAL ABUTMENTS AND RSS WALLS				
<p>ELEVATION SKETCH 1:500</p>					
<p>CROSS-SECTION SKETCH 1:100</p>					
LENGTH (m)	22		WIDTH (m)	4.6	
STRUCTURAL DEPTH (m)	0.95		SPAN/DEPTH RATIO	2.3	
SKEW ANGLE	28°		VERTICAL CLEARANCE (m)	5.4	
UNIT PRICE(\$/m ²)	NEW STRUCTURE	2,400		ESTIMATED COST (\$)	243,000
	REHABILITATION	----			
COMMENTS (SPECIAL CONSTRUCTION & DESIGN FEATURES)					
NAME OF CONSULTANT (FOR PLANNING)	URS CANADA INC.		DATE	FEBRUARY 2008	

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 PLOTDATE: Mar 17, 2008 4:08pm

STRUCTURAL PLANNING SHEET

W.O.NO.	----	CORRIDOR	HC-T	ROUTE	ALIGNMENT ALTERNATIVE 'THE PARKWAY'
STRUCTURE I.D.	TB-21	SITE NO.	----	LOCATION	TRAIL OVER LAURIER PARKWAY CONNECTION AT SOUTH OF HWY 3
STRUCTURE NAME	TRAIL BRIDGE ABOVE LAURIER PARKWAY CONNECTION AT SOUTH OF HWY 3			<input type="checkbox"/> EXISTING <input checked="" type="checkbox"/> NEW	<input type="checkbox"/> OVERPASS <input type="checkbox"/> BELOW GRADE HWY <input checked="" type="checkbox"/> UNDERPASS <input type="checkbox"/> APPROACH RAMP
STRUCTURE DESCRIPTION	SINGLE SPAN PRESTRESSED BOX GIRDERS WITH SEMI-INTEGRAL ABUTMENTS AND RSS WALLS				

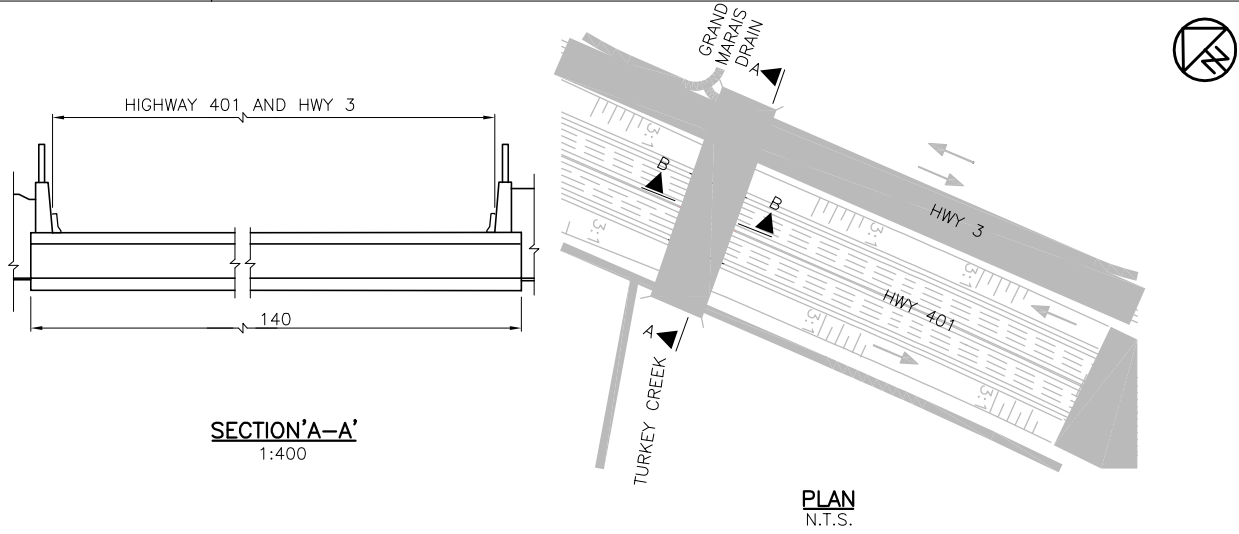


LENGTH (m)	26	WIDTH (m)	4.6
STRUCTURAL DEPTH (m)	1.05	SPAN/DEPTH RATIO	25
SKEW ANGLE	NO	VERTICAL CLEARANCE (m)	5.4
UNIT PRICE(\$/m ²)	NEW STRUCTURE	2,400	ESTIMATED COST (\$)
	REHABILITATION	----	
COMMENTS (SPECIAL CONSTRUCTION & DESIGN FEATURES)			
NAME OF CONSULTANT (FOR PLANNING)	URS CANADA INC.	DATE	FEBRUARY 2008

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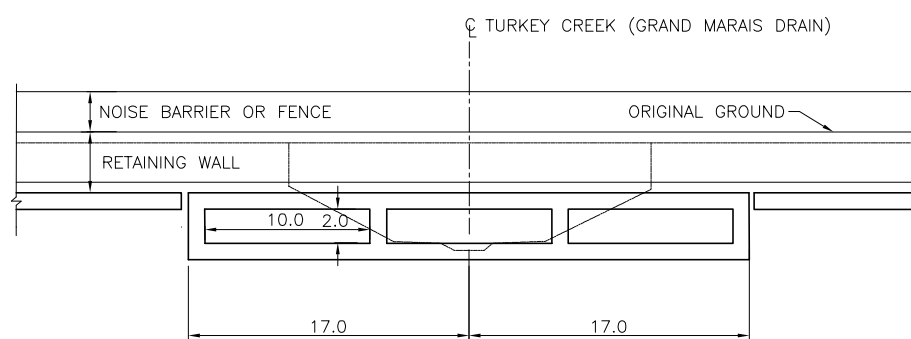
STRUCTURAL PLANNING SHEET

W.O.NO.	----	CORRIDOR	HC-T	ROUTE	ALIGNMENT ALTERNATIVE 'THE PARKWAY'
STRUCTURE I.D.	TCC-1	SITE NO.	----	LOCATION	TURKEY CREEK
STRUCTURE NAME	TURKEY CREEK BOX CULVERT WITH HWY 401 AND HWY 3 ABOVE			<input type="checkbox"/> EXISTING <input checked="" type="checkbox"/> NEW	<input type="checkbox"/> OVERPASS <input type="checkbox"/> UNDERPASS <input checked="" type="checkbox"/> BELOW GRADE HWY <input type="checkbox"/> APPROACH RAMP
STRUCTURE DESCRIPTION	THREE CELLS BOX CULVERT				



NORTH

SOUTH



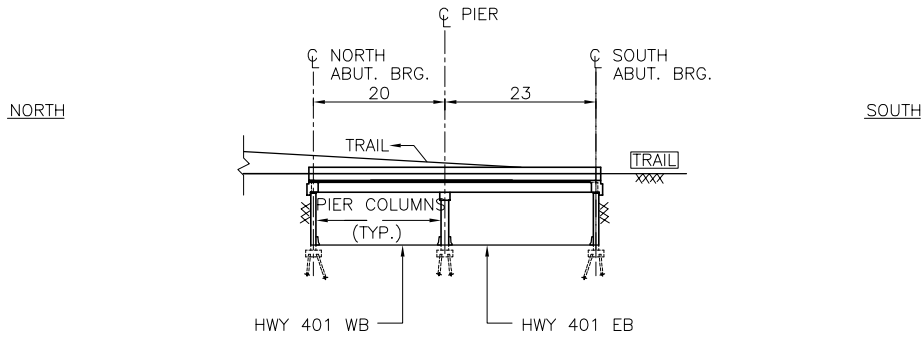
SECTION 'B-B'
1:400

LENGTH (m)	140	WIDTH (m)	----
STRUCTURAL DEPTH (m)	----	SPAN/DEPTH RATIO	----
SKREW ANGLE	----	VERTICAL CLEARANCE (m)	----
UNIT PRICE (\$/m)	NEW STRUCTURE	120,000	ESTIMATED COST (\$)
	REHABILITATION	----	
COMMENTS (SPECIAL CONSTRUCTION & DESIGN FEATURES)	INCLUDES REMOVAL OF EXISTING BRIDGE AND TEMPORARY TURKEY CREEK DIVERSION FOR STAGES OF BOX CULVERT CONSTRUCTION.		
NAME OF CONSULTANT (FOR PLANNING)	URS CANADA INC.	DATE	FEBRUARY 2008

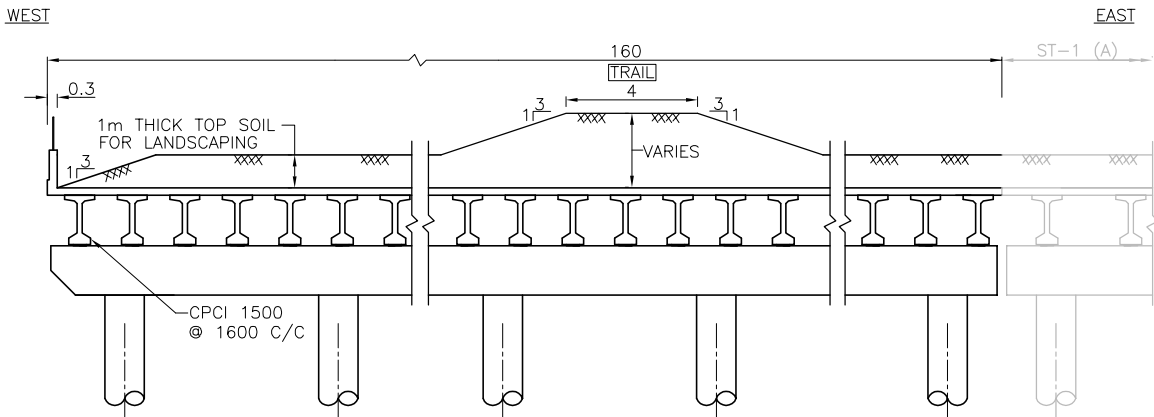
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 PLOTDATE: Mar 17, 2008 3:49pm

STRUCTURAL PLANNING SHEET

W.O.NO.	----	CORRIDOR	HC-T	ROUTE	ALIGNMENT ALTERNATIVE 'THE PARKWAY'
STRUCTURE I.D.	ST-1 (B)	SITE NO.	----	LOCATION	WEST OF HOWARD AVENUE OVER HWY 401
STRUCTURE NAME	TUNNEL AT WEST OF HOWARD AVENUE UNDERPASS (WEST SIDE)		<input type="checkbox"/> EXISTING <input checked="" type="checkbox"/> NEW		<input type="checkbox"/> OVERPASS <input type="checkbox"/> BELOW GRADE HWY <input checked="" type="checkbox"/> UNDERPASS <input type="checkbox"/> APPROACH RAMP
STRUCTURE DESCRIPTION	TWO SPANS CPCI 1500 GIRDERS WITH SEMI-INTEGRAL ABUTMENTS				



ELEVATION SKETCH
1:1000



CROSS-SECTION SKETCH
1:200

LENGTH (m)	43	WIDTH (m)	160
STRUCTURAL DEPTH (m)	1.8	SPAN/DEPTH RATIO	17
SKIEW ANGLE	NO	VERTICAL CLEARANCE (m)	5.1
UNIT PRICE (\$/m ²)	NEW STRUCTURE	2,500	ESTIMATED COST (\$)
	REHABILITATION	----	
COMMENTS (SPECIAL CONSTRUCTION & DESIGN FEATURES)			
NAME OF CONSULTANT (FOR PLANNING)	URS CANADA INC.	DATE	FEBRUARY 2008

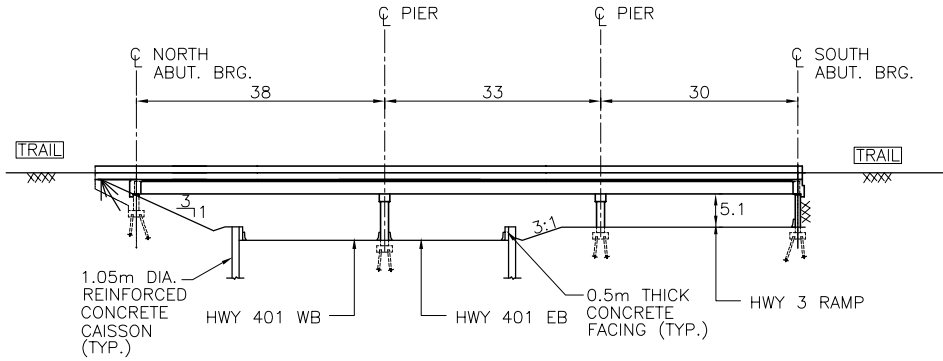
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 PLOTDATE: Jun 04, 2008 11:35:59am

STRUCTURAL PLANNING SHEET

W.O.NO.	----	CORRIDOR	HC-T	ROUTE	ALIGNMENT ALTERNATIVE "THE PARKWAY"
STRUCTURE I.D.	ST-2 (A)	SITE NO.	----	LOCATION	NORTH OF HEARTHWOOD OVER HWY 401
STRUCTURE NAME	TUNNEL AT HEARTHWOOD (EAST SIDE)			<input type="checkbox"/> EXISTING <input checked="" type="checkbox"/> NEW	<input type="checkbox"/> OVERPASS <input type="checkbox"/> BELOW GRADE HWY <input checked="" type="checkbox"/> UNDERPASS <input type="checkbox"/> APPROACH RAMP
STRUCTURE DESCRIPTION	THREE SPANS CPCI 1900 GIRDERS WITH SEMI-INTEGRAL ABUTMENTS				

NORTH

SOUTH

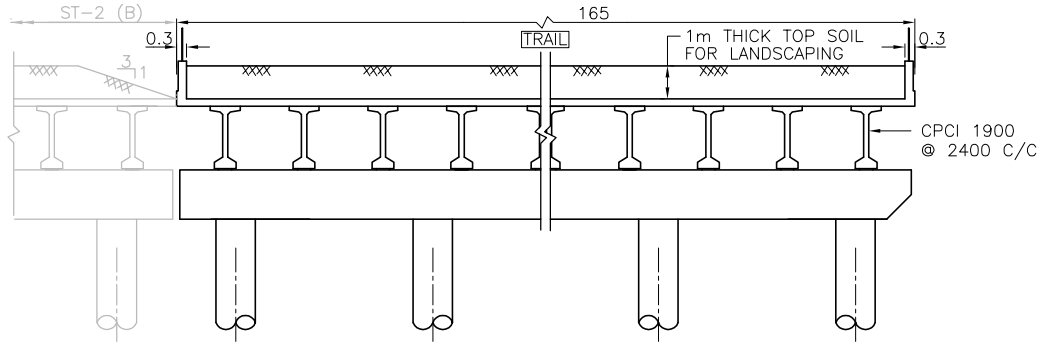


ELEVATION SKETCH

1:1000

WEST

EAST



CROSS-SECTION SKETCH

1:200

LENGTH (m)	101	WIDTH (m)	165
STRUCTURAL DEPTH (m)	2.2	SPAN/DEPTH RATIO	17
SKREW ANGLE	NO	VERTICAL CLEARANCE (m)	5.1
UNIT PRICE (\$/m ²)	NEW STRUCTURE 2,100 REHABILITATION ----	ESTIMATED COST (\$)	34,997,000
COMMENTS (SPECIAL CONSTRUCTION & DESIGN FEATURES)	- REFER STRUCTURAL PLANNING SHEET OF RW-15 FOR THIS BRIDGE LOCATION AND PLAN.		
NAME OF CONSULTANT (FOR PLANNING)	URS CANADA INC.	DATE	FEBRUARY 2008

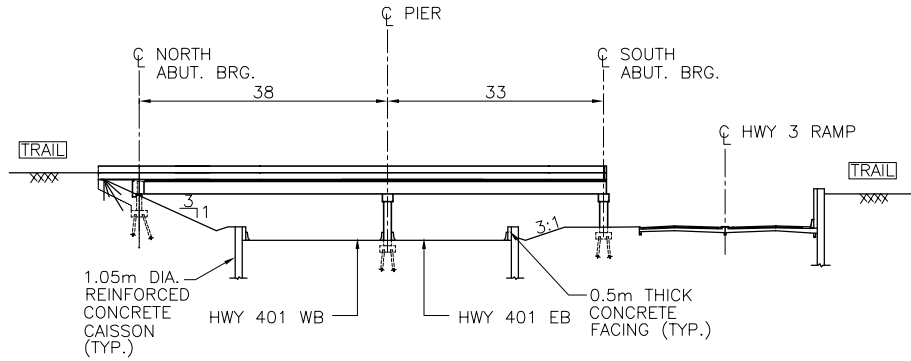
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 PLOTDATE: Jun 04, 2008 11:35:59am

STRUCTURAL PLANNING SHEET

W.O.NO.	----	CORRIDOR	HC-T	ROUTE	ALIGNMENT ALTERNATIVE "THE PARKWAY"
STRUCTURE I.D.	ST-2 (B)	SITE NO.	----	LOCATION	NORTH OF HEARTHWOOD OVER HWY 401
STRUCTURE NAME	TUNNEL AT HEARTHWOOD (WEST SIDE)			<input type="checkbox"/> EXISTING <input checked="" type="checkbox"/> NEW	<input type="checkbox"/> OVERPASS <input type="checkbox"/> BELOW GRADE HWY <input checked="" type="checkbox"/> UNDERPASS <input type="checkbox"/> APPROACH RAMP
STRUCTURE DESCRIPTION	TWO SPANS CPCI 1900 GIRDERS WITH SEMI-INTEGRAL ABUTMENTS				

NORTH

SOUTH

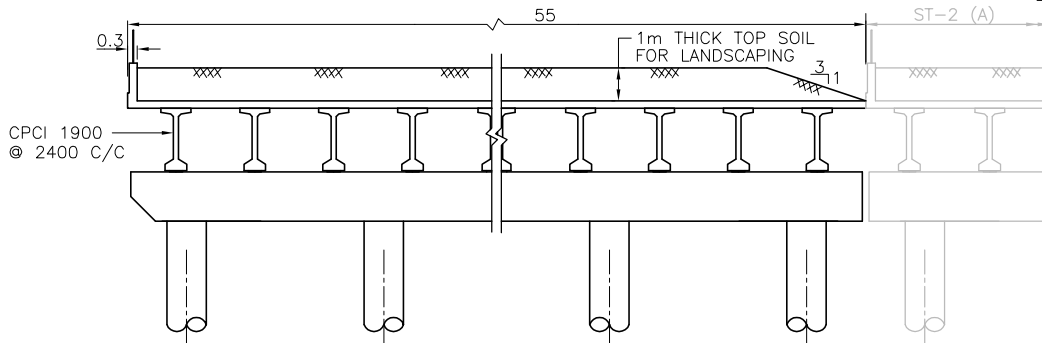


ELEVATION SKETCH

1:1000

WEST

EAST



CROSS-SECTION SKETCH

1:200

LENGTH (m)	71	WIDTH (m)	55
STRUCTURAL DEPTH (m)	2.2	SPAN/DEPTH RATIO	17
SKEW ANGLE	NO	VERTICAL CLEARANCE (m)	5.1
UNIT PRICE (\$/m ²)	NEW STRUCTURE	2,100	ESTIMATED COST (\$) 8,201,000
	REHABILITATION	----	
COMMENTS (SPECIAL CONSTRUCTION & DESIGN FEATURES)	- REFER STRUCTURAL PLANNING SHEET OF RW-15 FOR THIS BRIDGE LOCATION AND PLAN.		
NAME OF CONSULTANT (FOR PLANNING)	URS CANADA INC.	DATE	FEBRUARY 2008

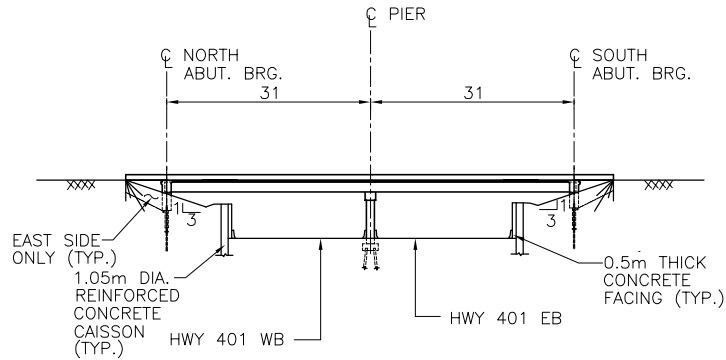
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PLOTDATE: Jun 04, 2008 11:35:59am

STRUCTURAL PLANNING SHEET

W.O.NO.	----	CORRIDOR	HC-T	ROUTE	ALIGNMENT ALTERNATIVE "THE PARKWAY"
STRUCTURE I.D.	ST-4 (A)	SITE NO.	----	LOCATION	EAST OF ST. CLAIR COLLEGE ROAD OVER HWY 401
STRUCTURE NAME	TUNNEL AT ST. CLAIR COLLEGE ROAD (EAST SIDE)			<input type="checkbox"/> EXISTING <input checked="" type="checkbox"/> NEW	<input type="checkbox"/> OVERPASS <input type="checkbox"/> BELOW GRADE HWY <input checked="" type="checkbox"/> UNDERPASS <input type="checkbox"/> APPROACH RAMP
STRUCTURE DESCRIPTION	TWO SPANS CPCI 1500 GIRDERS WITH INTEGRAL ABUTMENTS				

NORTH

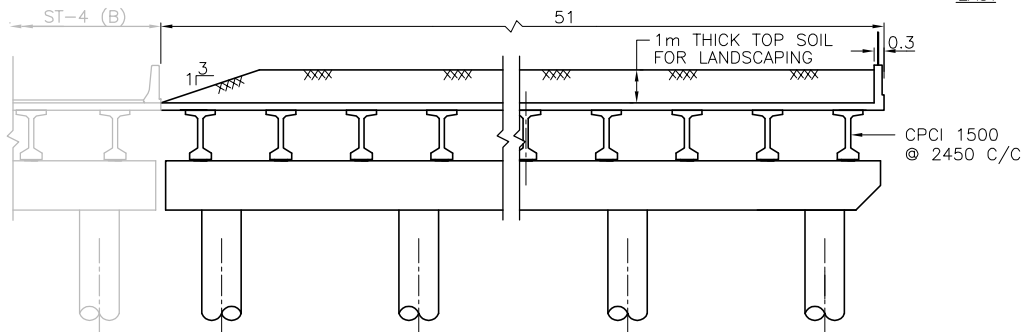
SOUTH



ELEVATION SKETCH
1:1000

WEST

EAST



CROSS-SECTION SKETCH
1:200

LENGTH (m)	62	WIDTH (m)	51
STRUCTURAL DEPTH (m)	1.8	SPAN/DEPTH RATIO	17
SKEW ANGLE	NO	VERTICAL CLEARANCE (m)	5.1
UNIT PRICE (\$/m ²)	NEW STRUCTURE	2,000	ESTIMATED COST (\$) 6,324,000
	REHABILITATION	----	
COMMENTS (SPECIAL CONSTRUCTION & DESIGN FEATURES)			
NAME OF CONSULTANT (FOR PLANNING)	URS CANADA INC.	DATE	FEBRUARY 2008

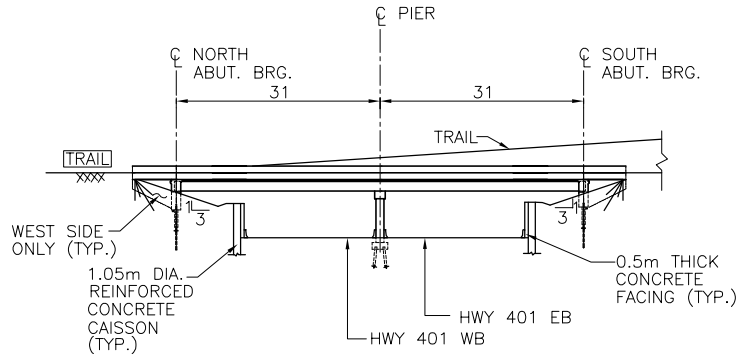
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 PLOTDATE: Jun 04, 2008 11:35:59am

STRUCTURAL PLANNING SHEET

W.O.NO.	----	CORRIDOR	HC-T	ROUTE	ALIGNMENT ALTERNATIVE 'THE PARKWAY'
STRUCTURE I.D.	ST-4 (C)	SITE NO.	----	LOCATION	WEST OF ST. CLAIR COLLEGE ROAD OVER HWY 401
STRUCTURE NAME	TUNNEL AT ST. CLAIR COLLEGE ROAD (WEST SIDE)			<input type="checkbox"/> EXISTING <input checked="" type="checkbox"/> NEW	<input type="checkbox"/> OVERPASS <input type="checkbox"/> BELOW GRADE HWY <input checked="" type="checkbox"/> UNDERPASS <input type="checkbox"/> APPROACH RAMP
STRUCTURE DESCRIPTION	TWO SPANS CPCI 1500 GIRDERS WITH INTEGRAL ABUTMENTS				

NORTH

SOUTH

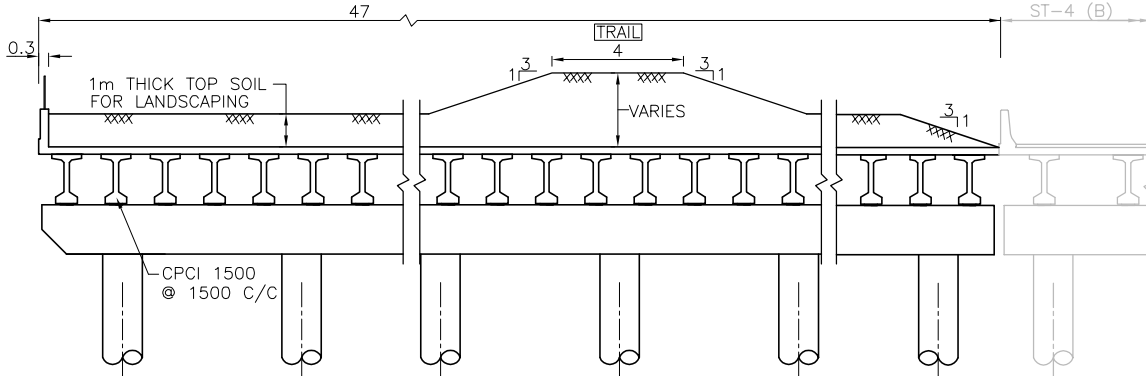


ELEVATION SKETCH

1:1000

WEST

EAST



CROSS-SECTION SKETCH

1:200

LENGTH (m)	62	WIDTH (m)	47
STRUCTURAL DEPTH (m)	1.8	SPAN/DEPTH RATIO	17
SKEW ANGLE	NO	VERTICAL CLEARANCE (m)	5.1
UNIT PRICE (\$/m ²)	NEW STRUCTURE	2,400	ESTIMATED COST (\$)
	REHABILITATION	----	
COMMENTS (SPECIAL CONSTRUCTION & DESIGN FEATURES)			
NAME OF CONSULTANT (FOR PLANNING)	URS CANADA INC.	DATE	FEBRUARY 2008

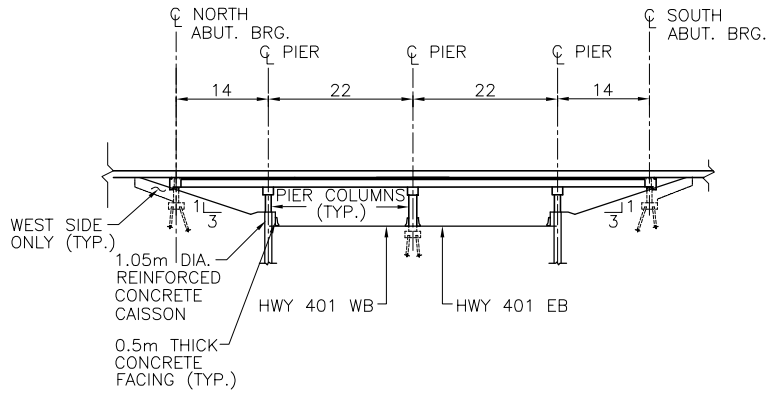
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 PLOTDATE: Jun 04, 2008 11:35:59am

STRUCTURAL PLANNING SHEET

W.O.NO.	----	CORRIDOR	HC-T	ROUTE	ALIGNMENT ALTERNATIVE "THE PARKWAY"
STRUCTURE I.D.	ST-5 (C)	SITE NO.	----	LOCATION	WEST OF HURON CHURCH LINE OVER HWY 401
STRUCTURE NAME	TUNNEL AT HURON CHURCH LINE (WEST SIDE)			<input type="checkbox"/> EXISTING <input checked="" type="checkbox"/> NEW	<input type="checkbox"/> OVERPASS <input checked="" type="checkbox"/> UNDERPASS <input type="checkbox"/> BELOW GRADE HWY <input type="checkbox"/> APPROACH RAMP
STRUCTURE DESCRIPTION	FOUR SPANS CPCI 1200 GIRDERS WITH SEMI-INTEGRAL ABUTMENTS				

NORTH

SOUTH

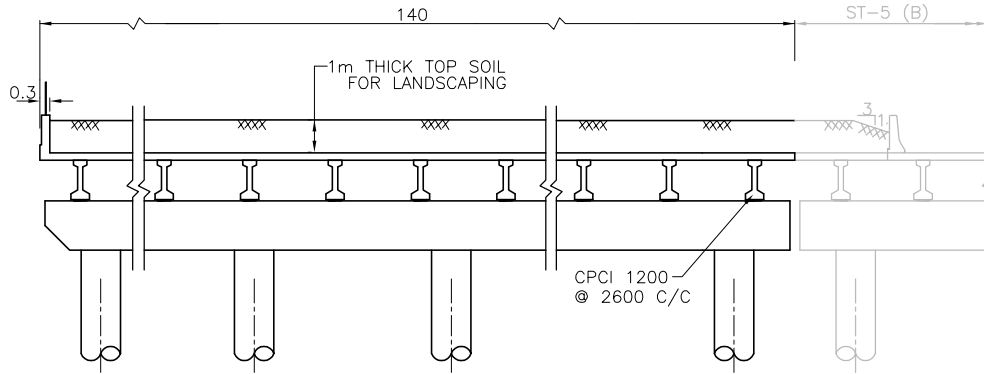


ELEVATION SKETCH

1:1000

WEST

EAST



CROSS-SECTION SKETCH

1:200

LENGTH (m)	72	WIDTH (m)	140
STRUCTURAL DEPTH (m)	1.5	SPAN/DEPTH RATIO	15
SKEW ANGLE	NO	VERTICAL CLEARANCE (m)	5.1
UNIT PRICE (\$/m ²)	NEW STRUCTURE	2,100	ESTIMATED COST (\$) 21,168,000
	REHABILITATION	----	
COMMENTS (SPECIAL CONSTRUCTION & DESIGN FEATURES)	FOR BRIDGE LOCATION AND PLAN REFER TO STRUCTURAL PLANNING SHEET OF RW-32 & RW-29.		
NAME OF CONSULTANT (FOR PLANNING)	URS CANADA INC.	DATE	FEBRUARY 2008

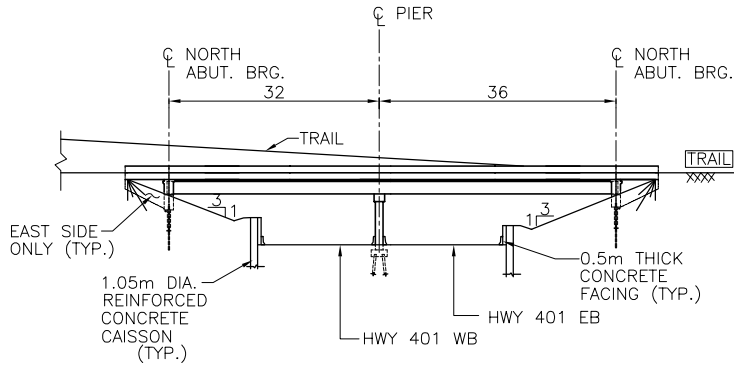
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 PLOTDATE: Jun 04, 2008 11:40:00am

STRUCTURAL PLANNING SHEET

W.O.NO.	----	CORRIDOR	HC-T	ROUTE	ALIGNMENT ALTERNATIVE "THE PARKWAY"
STRUCTURE I.D.	ST-6 (A)	SITE NO.	----	LOCATION	EAST OF CABANA ROAD WEST OVER HWY 401
STRUCTURE NAME	TUNNEL AT CABANA ROAD WEST (EAST SIDE)			<input type="checkbox"/> EXISTING <input checked="" type="checkbox"/> NEW	<input type="checkbox"/> OVERPASS <input type="checkbox"/> BELOW GRADE HWY <input checked="" type="checkbox"/> UNDERPASS <input type="checkbox"/> APPROACH RAMP
STRUCTURE DESCRIPTION	TWO SPANS CPCI 1900 GIRDERS WITH INTEGRAL ABUTMENTS				

NORTH

SOUTH

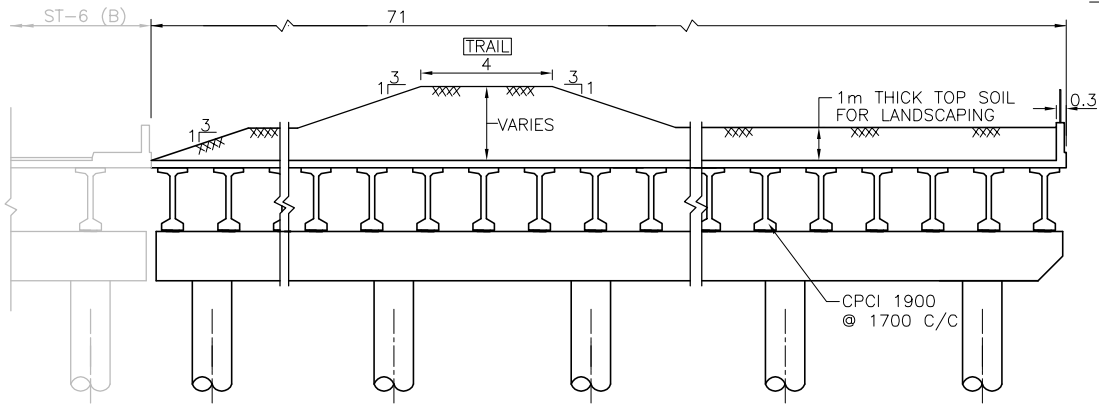


ELEVATION SKETCH

1:1000

WEST

EAST



CROSS-SECTION SKETCH

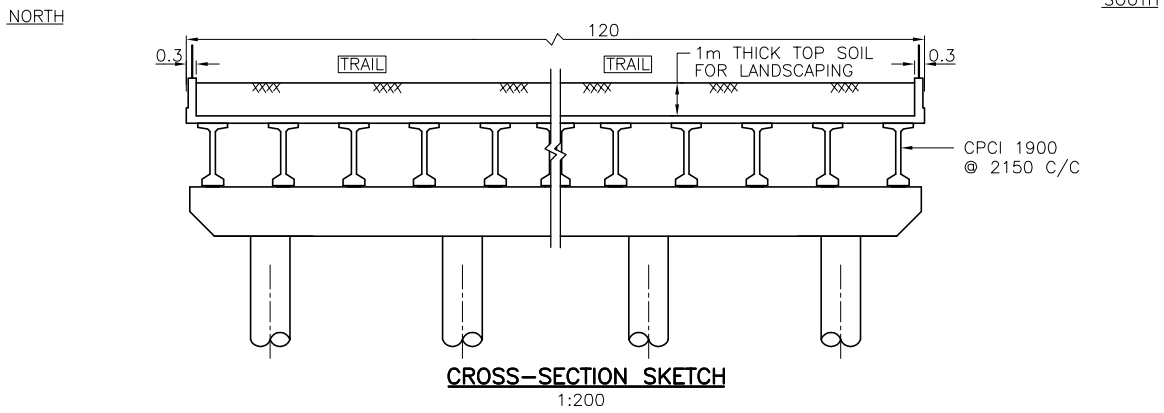
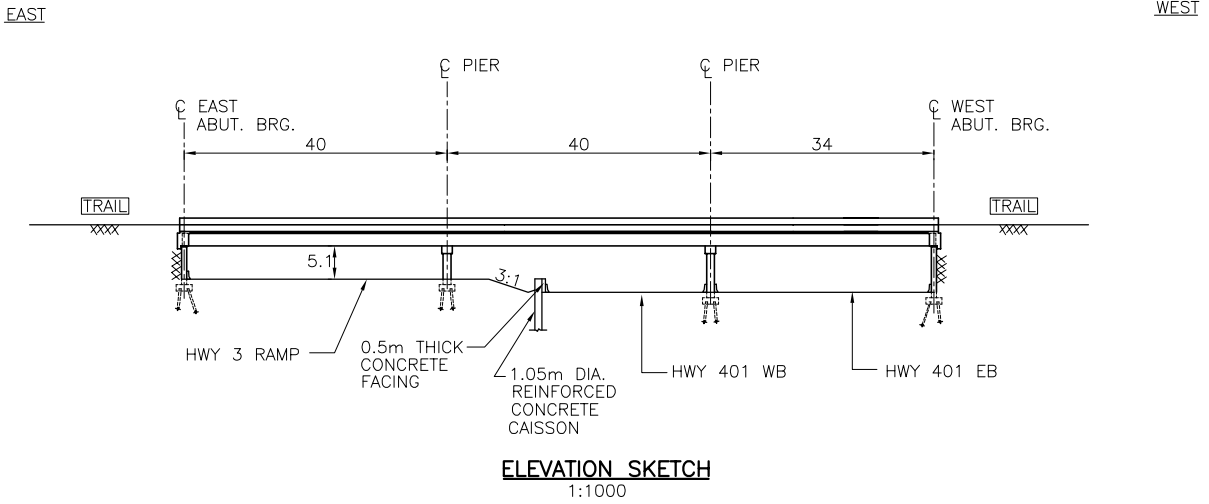
1:200

LENGTH (m)	68	WIDTH (m)	71
STRUCTURAL DEPTH (m)	2.2	SPAN/DEPTH RATIO	16
SKEW ANGLE	13°	VERTICAL CLEARANCE (m)	5.1
UNIT PRICE (\$/m ²)	NEW STRUCTURE REHABILITATION	2,400 ----	ESTIMATED COST (\$) 11,587,000
COMMENTS (SPECIAL CONSTRUCTION & DESIGN FEATURES)			
NAME OF CONSULTANT (FOR PLANNING)	URS CANADA INC.	DATE	FEBRUARY 2008

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 PLOTDATE: Jun 04, 2008 11:40:10 AM

STRUCTURAL PLANNING SHEET

W.O.NO.	----	CORRIDOR	HC-T	ROUTE	ALIGNMENT ALTERNATIVE "THE PARKWAY"
STRUCTURE I.D.	ST-7	SITE NO.	----	LOCATION	EAST OF REDDOCK STREET OVER HWY 401
STRUCTURE NAME	TUNNEL AT REDDOCK STREET			<input type="checkbox"/> EXISTING <input checked="" type="checkbox"/> NEW	<input type="checkbox"/> OVERPASS <input checked="" type="checkbox"/> UNDERPASS <input type="checkbox"/> BELOW GRADE HWY <input type="checkbox"/> APPROACH RAMP
STRUCTURE DESCRIPTION	THREE SPANS CPCI 1900 GIRDERS WITH SEMI-INTEGRAL ABUTMENTS				



LENGTH (m)	114	WIDTH (m)	120
STRUCTURAL DEPTH (m)	2.2	SPAN/DEPTH RATIO	18
SKEW ANGLE	NO	VERTICAL CLEARANCE (m)	5.1
UNIT PRICE (\$/m ²)	NEW STRUCTURE	2,100	ESTIMATED COST (\$)
	REHABILITATION	----	
COMMENTS (SPECIAL CONSTRUCTION & DESIGN FEATURES)			
NAME OF CONSULTANT (FOR PLANNING)	URS CANADA INC.	DATE	FEBRUARY 2008

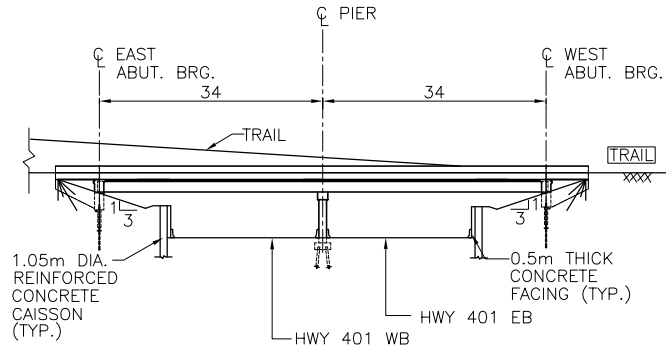
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 PLOTDATE: Jun 04, 2008 4:02pm

STRUCTURAL PLANNING SHEET

W.O.NO.	----	CORRIDOR	HC-T	ROUTE	ALIGNMENT ALTERNATIVE "THE PARKWAY"
STRUCTURE I.D.	ST-8	SITE NO.	----	LOCATION	WEST OF PULFORD STREET OVER HWY 401
STRUCTURE NAME	TUNNEL AT PULFORD STREET			<input type="checkbox"/> EXISTING <input checked="" type="checkbox"/> NEW	<input type="checkbox"/> OVERPASS <input type="checkbox"/> BELOW GRADE HWY <input checked="" type="checkbox"/> UNDERPASS <input type="checkbox"/> APPROACH RAMP
STRUCTURE DESCRIPTION	TWO SPANS CPCI 1600 GIRDERS WITH INTEGRAL ABUTMENTS				

EAST

WEST

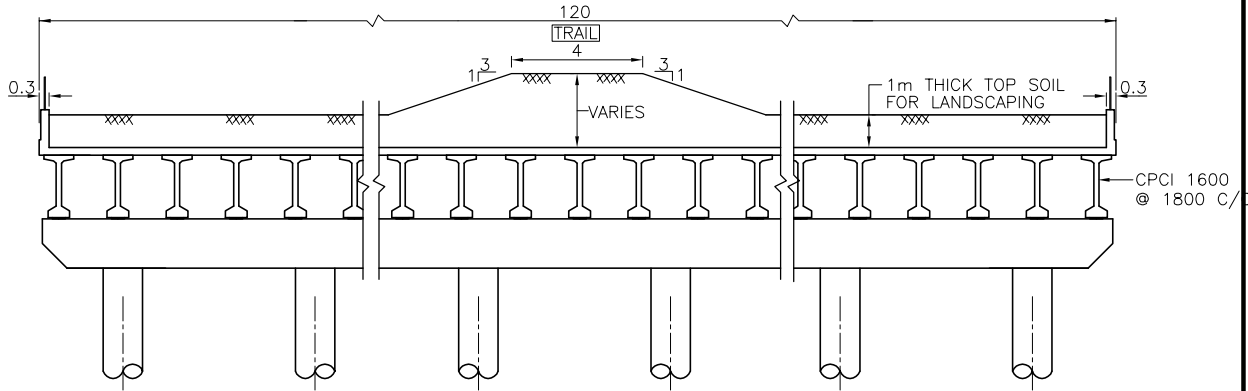


ELEVATION SKETCH

1:1000

NORTH

SOUTH



CROSS-SECTION SKETCH

1:200

LENGTH (m)	68	WIDTH (m)	120
STRUCTURAL DEPTH (m)	1.9	SPAN/DEPTH RATIO	18
SKEW ANGLE	NO	VERTICAL CLEARANCE (m)	5.1
UNIT PRICE (\$/m ²)	NEW STRUCTURE REHABILITATION	2,400 ----	ESTIMATED COST (\$) 19,584,000
COMMENTS (SPECIAL CONSTRUCTION & DESIGN FEATURES)			
NAME OF CONSULTANT (FOR PLANNING)	URS CANADA INC.	DATE	FEBRUARY 2008

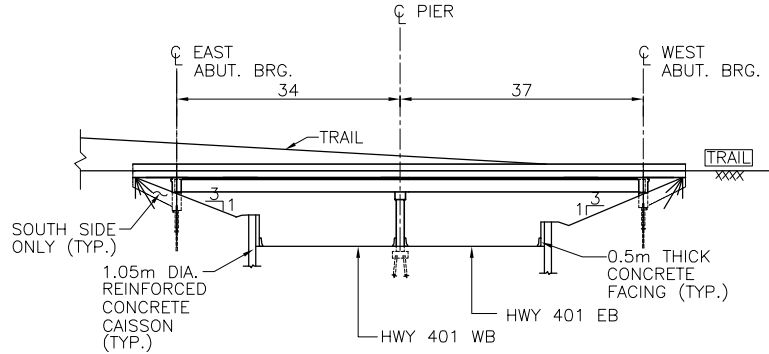
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 PLOTDATE: Jun 04, 2008 4:03pm

STRUCTURAL PLANNING SHEET

W.O.NO.	----	CORRIDOR	HC-T	ROUTE	ALIGNMENT ALTERNATIVE 'THE PARKWAY'
STRUCTURE I.D.	ST-9 (A)	SITE NO.	----	LOCATION	SOUTH OF GRAND MARAIS ROAD WEST OVER HWY 401
STRUCTURE NAME	TUNNEL AT SOUTH OF GRAND MARAIS ROAD WEST (EAST SIDE)		<input type="checkbox"/> EXISTING <input checked="" type="checkbox"/> NEW		<input type="checkbox"/> OVERPASS <input type="checkbox"/> BELOW GRADE HWY <input checked="" type="checkbox"/> UNDERPASS <input type="checkbox"/> APPROACH RAMP
STRUCTURE DESCRIPTION	TWO SPANS CPCI 1900 GIRDERS WITH INTEGRAL ABUTMENTS.				

EAST

WEST

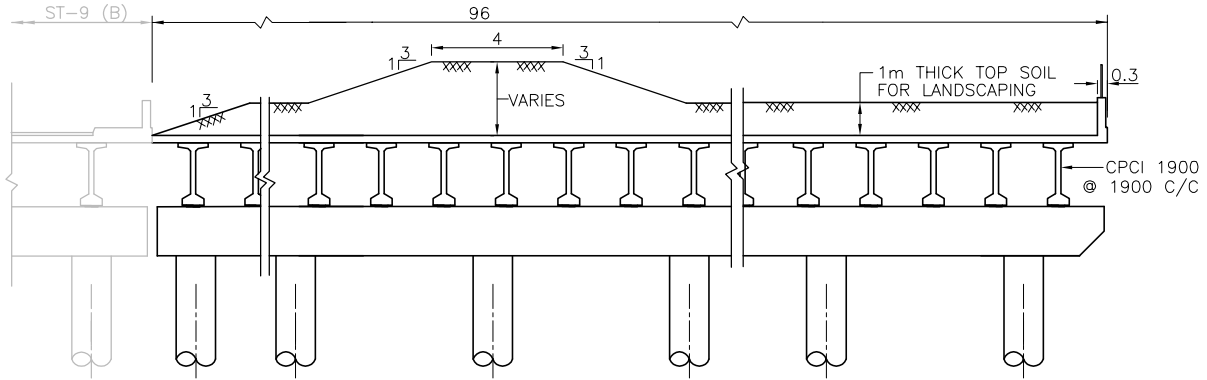


ELEVATION SKETCH

1:1000

NORTH

SOUTH



CROSS-SECTION SKETCH

1:200

LENGTH (m)	71	WIDTH (m)	96
STRUCTURAL DEPTH (m)	2.2	SPAN/DEPTH RATIO	17
SKREW ANGLE	NO	VERTICAL CLEARANCE (m)	5.1
UNIT PRICE (\$/m ²)	NEW STRUCTURE	2,400	ESTIMATED COST (\$) 16,358,000
	REHABILITATION	----	
COMMENTS (SPECIAL CONSTRUCTION & DESIGN FEATURES)			
NAME OF CONSULTANT (FOR PLANNING)	URS CANADA INC.	DATE	FEBRUARY 2008

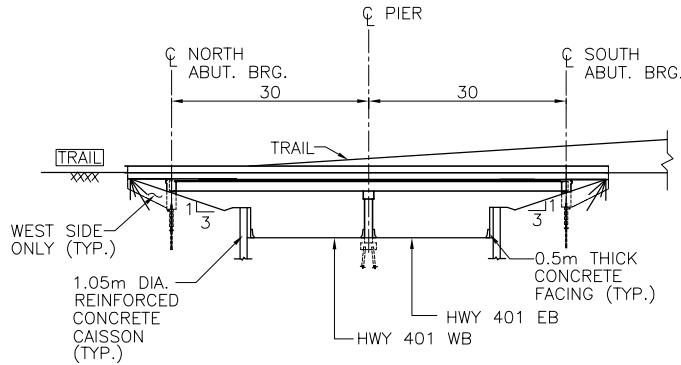
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 PLOTDATE: Jun 04, 2008 4:03pm

STRUCTURAL PLANNING SHEET

W.O.NO.	----	CORRIDOR	HC-T	ROUTE	ALIGNMENT ALTERNATIVE "THE PARKWAY"
STRUCTURE I.D.	ST-10 (C)	SITE NO.	----	LOCATION	SOUTH OF HWY3 OVER HWY 401
STRUCTURE NAME	TUNNEL AT SOUTH OF LABELLE STREET (WEST SIDE)			<input type="checkbox"/> EXISTING <input checked="" type="checkbox"/> NEW	<input type="checkbox"/> OVERPASS <input checked="" type="checkbox"/> UNDERPASS
STRUCTURE DESCRIPTION	TWO SPANS CPCI 1500 GIRDERS WITH INTEGRAL ABUTMENTS				

NORTH

SOUTH

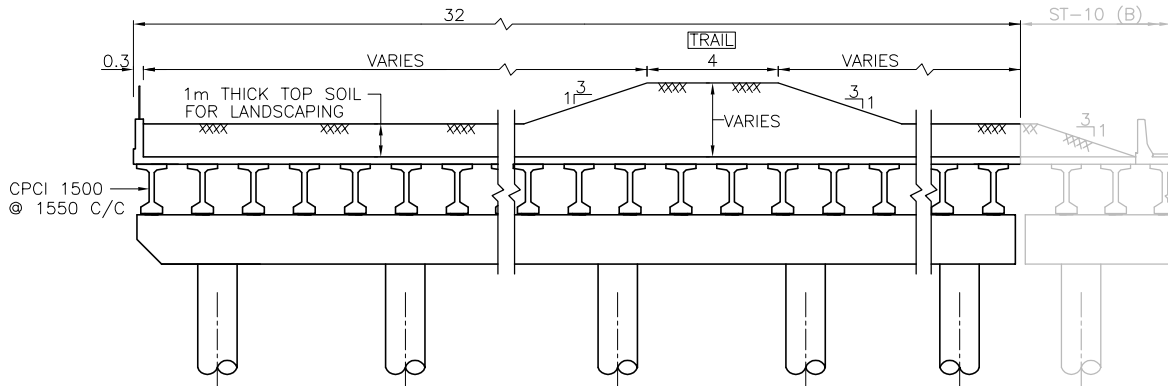


ELEVATION SKETCH

1:1000

WEST

EAST



CROSS-SECTION SKETCH

1:200

LENGTH (m)	60	WIDTH (m)	32
STRUCTURAL DEPTH (m)	1.8	SPAN/DEPTH RATIO	17
SKEW ANGLE	NO	VERTICAL CLEARANCE (m)	5.1
UNIT PRICE (\$/m ²)	NEW STRUCTURE 2,400	ESTIMATED COST (\$)	4,608,000
	REHABILITATION ----		
COMMENTS (SPECIAL CONSTRUCTION & DESIGN FEATURES)			
NAME OF CONSULTANT (FOR PLANNING)	URS CANADA INC.	DATE	FEBRUARY 2008

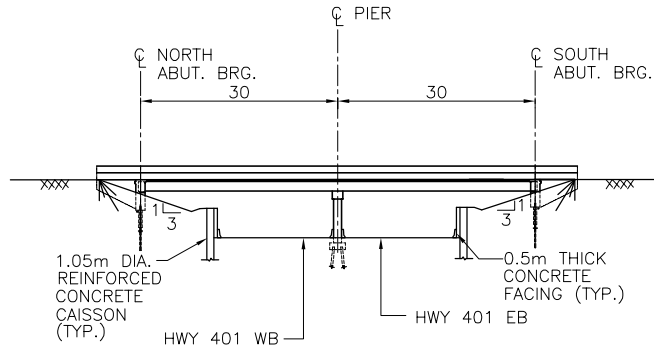
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 PLOTDATE: Jun 04, 2008 11:40:30am

STRUCTURAL PLANNING SHEET

W.O.NO.	----	CORRIDOR	HC-T	ROUTE	ALIGNMENT ALTERNATIVE "THE PARKWAY"
STRUCTURE I.D.	ST-11	SITE NO.	----	LOCATION	WEST OF LABELLE STREET OVER HWY 401
STRUCTURE NAME	TUNNEL NEAR E.C. ROW EXPRESSWAY			<input type="checkbox"/> EXISTING <input checked="" type="checkbox"/> NEW	<input type="checkbox"/> OVERPASS <input type="checkbox"/> BELOW GRADE HWY <input checked="" type="checkbox"/> UNDERPASS <input type="checkbox"/> APPROACH RAMP
STRUCTURE DESCRIPTION	TWO SPANS CPCI 1500 GIRDERS WITH INTEGRAL ABUTMENTS				

NORTH

SOUTH

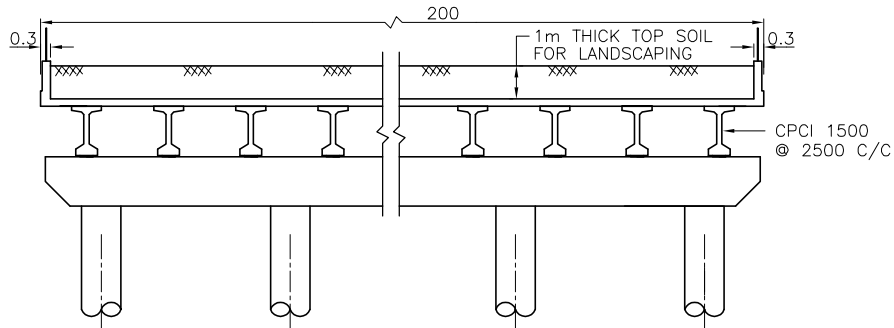


ELEVATION SKETCH

1:1000

WEST

EAST



CROSS-SECTION SKETCH

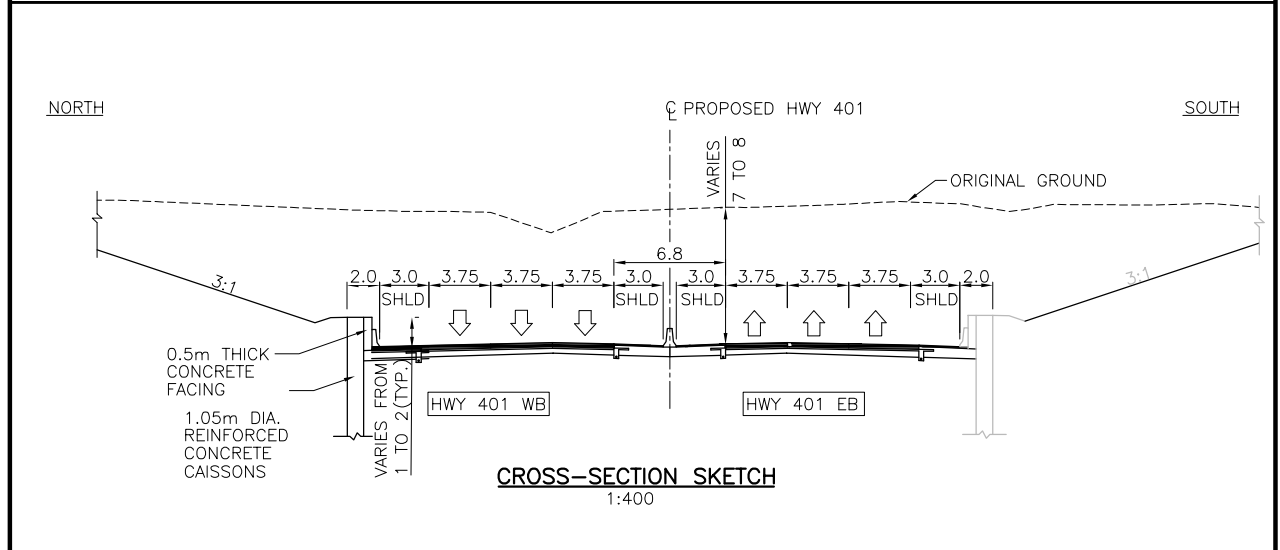
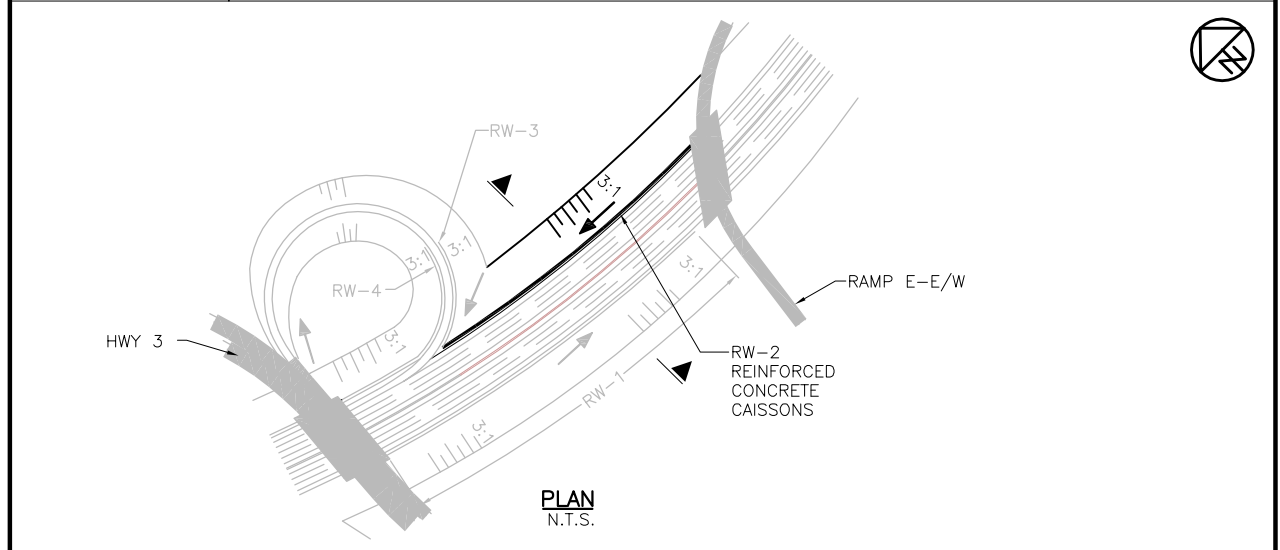
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LENGTH (m)	60	WIDTH (m)	200
STRUCTURAL DEPTH (m)	1.8	SPAN/DEPTH RATIO	17
SKREW ANGLE	NO	VERTICAL CLEARANCE (m)	5.1
UNIT PRICE (\$/m ²)	NEW STRUCTURE REHABILITATION	2,000 ----	ESTIMATED COST (\$) 24,000,000
COMMENTS (SPECIAL CONSTRUCTION & DESIGN FEATURES)			
NAME OF CONSULTANT (FOR PLANNING)	URS CANADA INC.	DATE	FEBRUARY 2008

FILENAME: C:\ORIC\16_Structure\16_ADD\Planning Sheets\Hyw Alternatives\2008\Bridge-Alt-05-2008\ORIC_LAST REPORT\ORIC-CAD-LASTREPORT-05-05-2008\BridgeAlternative-2C-REV-Feb-2008-BRIDGES.dwg
 PLOTTED: Jun 04, 2008 11:40:30am

STRUCTURAL PLANNING SHEET

W.O.NO.	----	CORRIDOR	HC-T	ROUTE	ALIGNMENT ALTERNATIVE 'THE PARKWAY'
STRUCTURE I.D.	RW-2	SITE NO.	----	LOCATION	HWY 401 AT WEST OF RAMP E-E/W
STRUCTURE NAME	BELOW GRADE HWY 401 AT WEST OF RAMP E-E/W			<input type="checkbox"/> EXISTING <input checked="" type="checkbox"/> NEW	<input type="checkbox"/> OVERPASS <input type="checkbox"/> UNDERPASS <input checked="" type="checkbox"/> BELOW GRADE HWY <input type="checkbox"/> APPROACH RAMP
STRUCTURE DESCRIPTION	CAISSON RETAINING WALL (TYPE "D") OF VARIABLE HEIGHT ON NORTH SIDE				

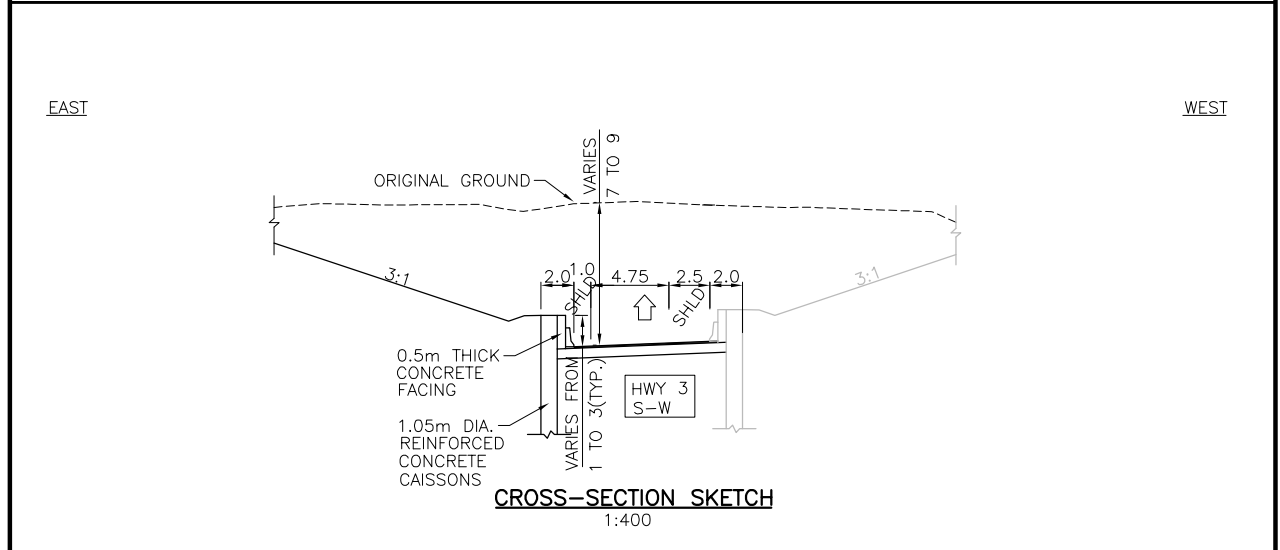
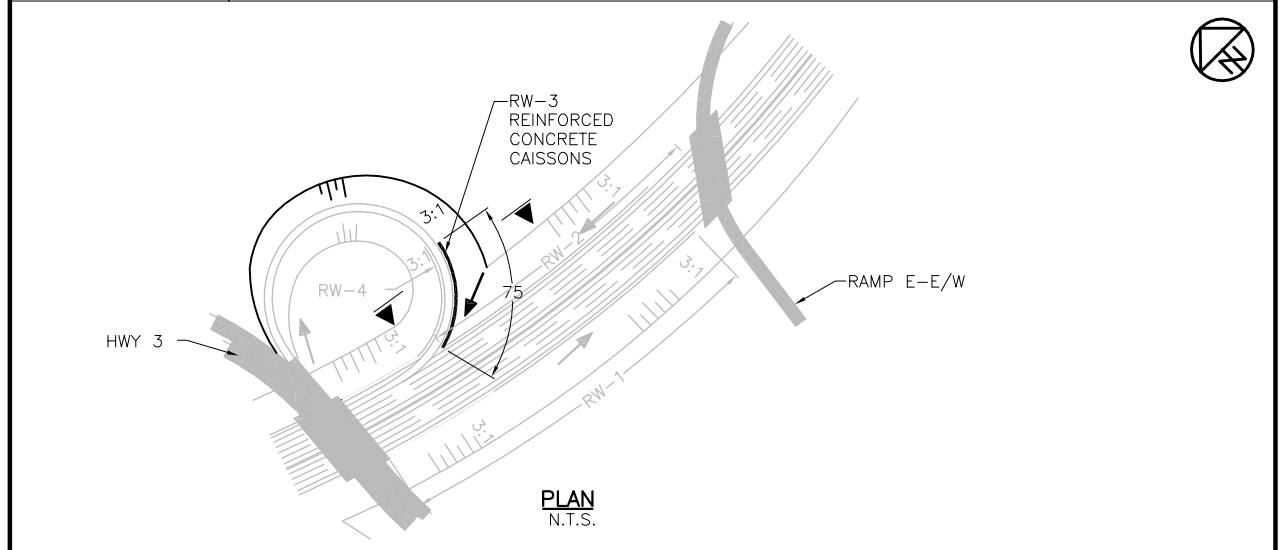


LENGTH (m)	170 NORTH SIDE		WIDTH (m)	----
STRUCTURAL DEPTH (m)	----		SPAN/DEPTH RATIO	----
SKEW ANGLE	----		VERTICAL CLEARANCE (m)	----
UNIT PRICE (\$/m)	NEW STRUCTURE	27,000	ESTIMATED COST (\$)	4,590,000
	REHABILITATION	----		
COMMENTS (SPECIAL CONSTRUCTION & DESIGN FEATURES)	- THIS STRUCTURE MAY BE DELETED AFTER DETAILED REVIEW AT NEXT STAGE OF DESIGN.			
NAME OF CONSULTANT (FOR PLANNING)	URS CANADA INC.		DATE	FEBRUARY 2008

FILENAME: C:\projects\2008\DRG_LAST REPORT\BA-2C-REV-FEB-CAISSINWALL\BridgAltAlternative-2C-REV-FEB-2008-BRIDGES.dwg
 PLOTDATE: Mar 17, 2008 3:19pm

STRUCTURAL PLANNING SHEET

W.O.NO.	----	CORRIDOR	HC-T	ROUTE	ALIGNMENT ALTERNATIVE 'THE PARKWAY'
STRUCTURE I.D.	RW-3	SITE NO.	----	LOCATION	HWY 3 S-W BULLNOSE ENTRANCE AT EAST OF HOWARD AVE
STRUCTURE NAME	APPROACH RAMP OF HWY 3 S-W BULLNOSE ENTRANCE			<input type="checkbox"/> EXISTING <input checked="" type="checkbox"/> NEW	<input type="checkbox"/> OVERPASS <input type="checkbox"/> BELOW GRADE HWY <input type="checkbox"/> UNDERPASS <input checked="" type="checkbox"/> APPROACH RAMP
STRUCTURE DESCRIPTION	CAISSON RETAINING WALL (TYPE "D") OF VARIABLE HEIGHT ON EAST SIDE				

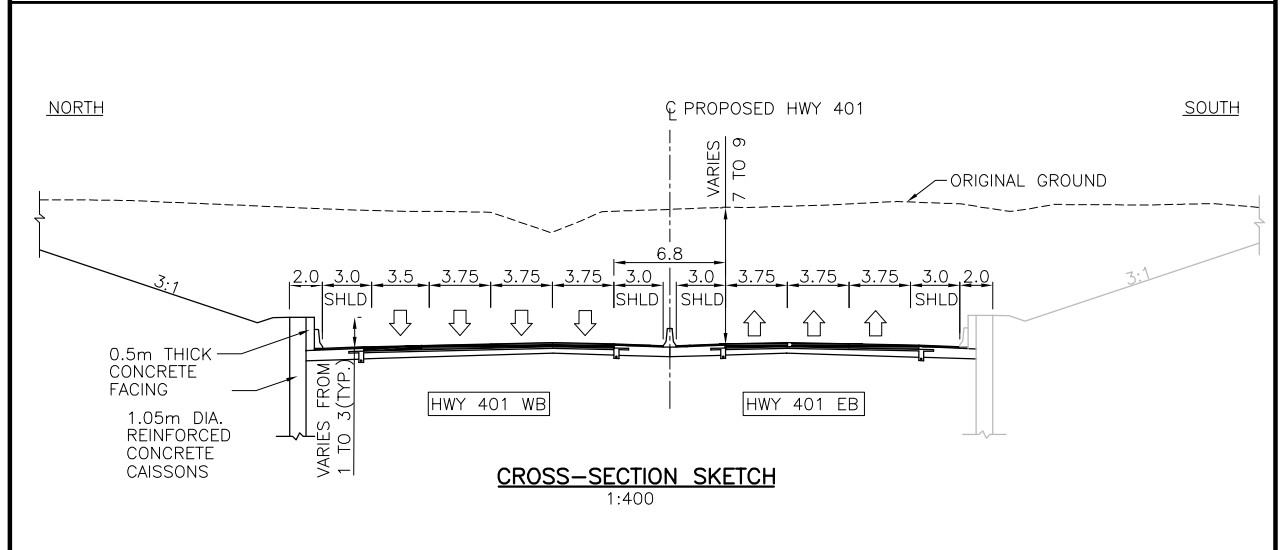
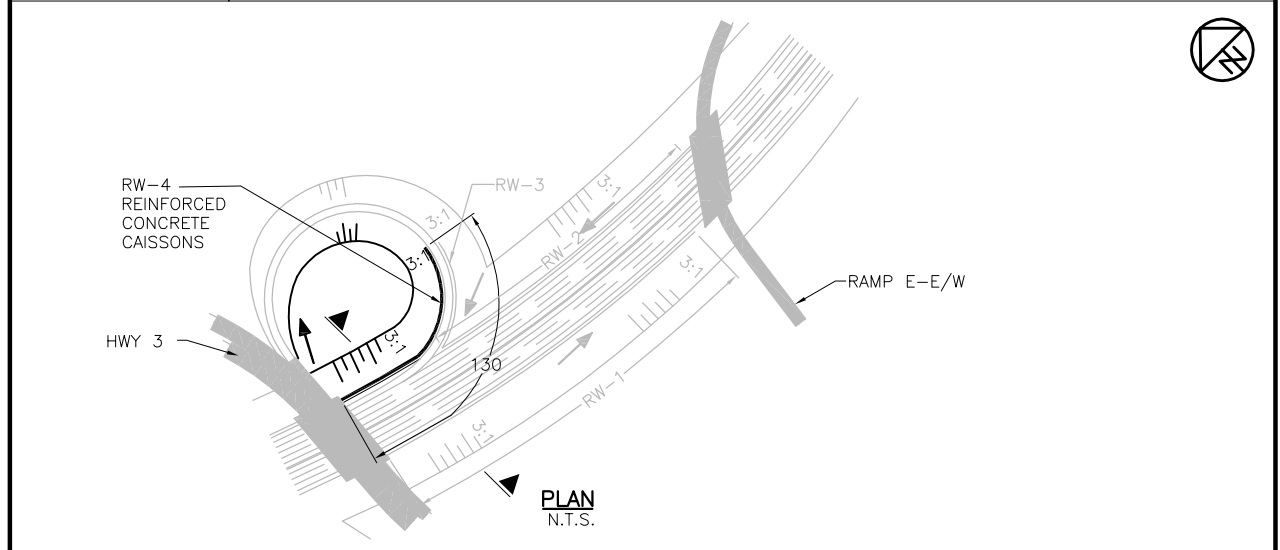


LENGTH (m)	75 EAST SIDE	WIDTH (m)	----
STRUCTURAL DEPTH (m)	----	SPAN/DEPTH RATIO	----
SKIEW ANGLE	----	VERTICAL CLEARANCE (m)	----
UNIT PRICE (\$/m)	NEW STRUCTURE	27,000	ESTIMATED COST (\$) 2,025,000
	REHABILITATION	----	
COMMENTS (SPECIAL CONSTRUCTION & DESIGN FEATURES)	- THIS STRUCTURE MAY BE DELETED AFTER DETAILED REVIEW AT NEXT STAGE OF DESIGN.		
NAME OF CONSULTANT (FOR PLANNING)	URS CANADA INC.	DATE	FEBRUARY 2008

FILENAME: C:\projects\2014\DRG_LAST REPORT\BA-2C-REV-FEB-CAISSONWALL\Bridges\Alternative-2C-REV-FEB-2008-BRIDGES.dwg
PLOTDATE: Mar 17, 2008 3:13pm

STRUCTURAL PLANNING SHEET

W.O.NO.	----	CORRIDOR	HC-T	ROUTE	ALIGNMENT ALTERNATIVE 'THE PARKWAY'
STRUCTURE I.D.	RW-4	SITE NO.	----	LOCATION	HWY 401 AT EAST OF HWY 3 CROSSING
STRUCTURE NAME	BELOW GRADE HWY 401 AT EAST OF HWY 3 CROSSING			<input type="checkbox"/> EXISTING <input checked="" type="checkbox"/> NEW	<input type="checkbox"/> OVERPASS <input type="checkbox"/> UNDERPASS <input checked="" type="checkbox"/> BELOW GRADE HWY <input type="checkbox"/> APPROACH RAMP
STRUCTURE DESCRIPTION	CAISSON RETAINING WALL (TYPE "D") OF VARIABLE HEIGHT ON NORTH SIDE				

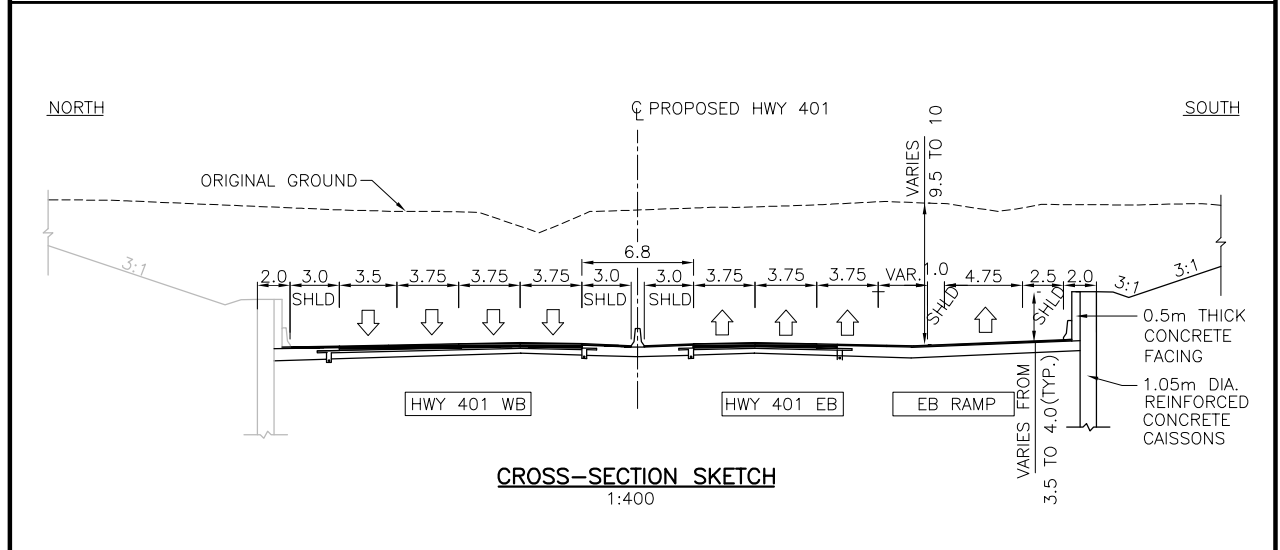
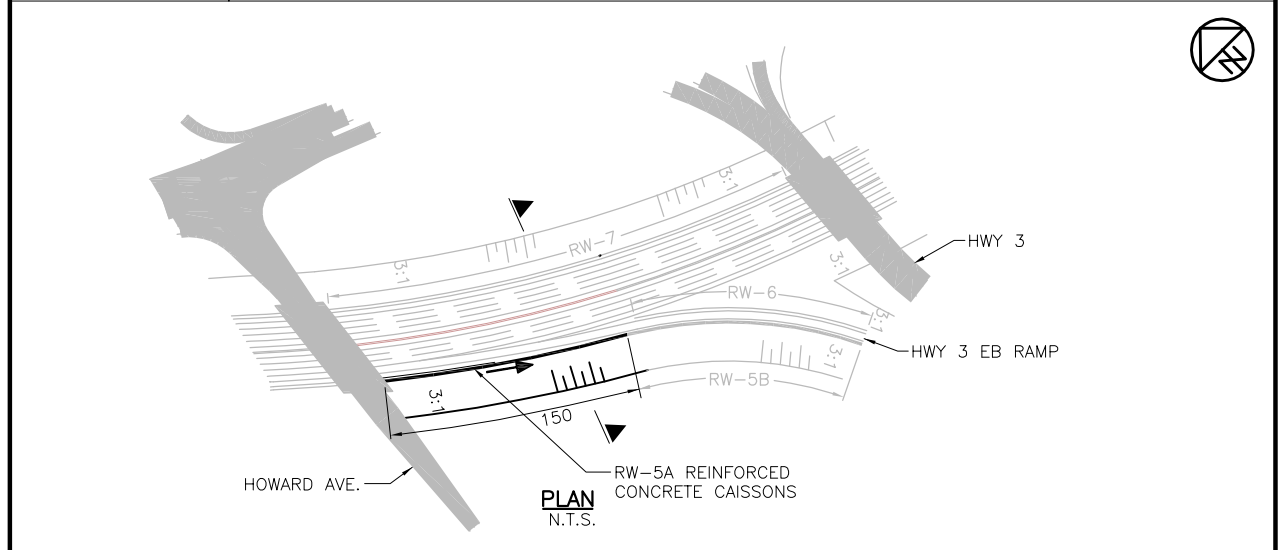


LENGTH (m)	130 NORTH SIDE		WIDTH (m)	----
STRUCTURAL DEPTH (m)	----		SPAN/DEPTH RATIO	----
SKEW ANGLE	----		VERTICAL CLEARANCE (m)	----
UNIT PRICE (\$/m)	NEW STRUCTURE	27,000	ESTIMATED COST (\$)	3,510,000
	REHABILITATION	----		
COMMENTS (SPECIAL CONSTRUCTION & DESIGN FEATURES)	- THIS STRUCTURE MAY BE DELETED AFTER DETAILED REVIEW AT NEXT STAGE OF DESIGN.			
NAME OF CONSULTANT (FOR PLANNING)	URS CANADA INC.		DATE	FEBRUARY 2008

FILENAME: C:\projects\2008\DRG_LAST REPORT\BA-2C-REV-FEB-CAISSINWALL\Bridges\Alternative-2C-REV-FEB-2008-BRIDGES.dwg
 PLOT DATE: Mar 17, 2008 3:20pm

STRUCTURAL PLANNING SHEET

W.O.NO.	----	CORRIDOR	HC-T	ROUTE	ALIGNMENT ALTERNATIVE 'THE PARKWAY'
STRUCTURE I.D.	RW-5A	SITE NO.	----	LOCATION	EAST OF HOWARD AVENUE
STRUCTURE NAME	BELOW GRADE HWY 401 WITH HWY 3 EB RAMP AT EAST OF HOWARD AVENUE (WEST SIDE)			<input type="checkbox"/> EXISTING <input checked="" type="checkbox"/> NEW	<input type="checkbox"/> OVERPASS <input type="checkbox"/> UNDERPASS <input checked="" type="checkbox"/> BELOW GRADE HWY <input type="checkbox"/> APPROACH RAMP
STRUCTURE DESCRIPTION	CAISSON RETAINING WALL (TYPE "D") OF VARIABLE HEIGHT ON SOUTH SIDE				

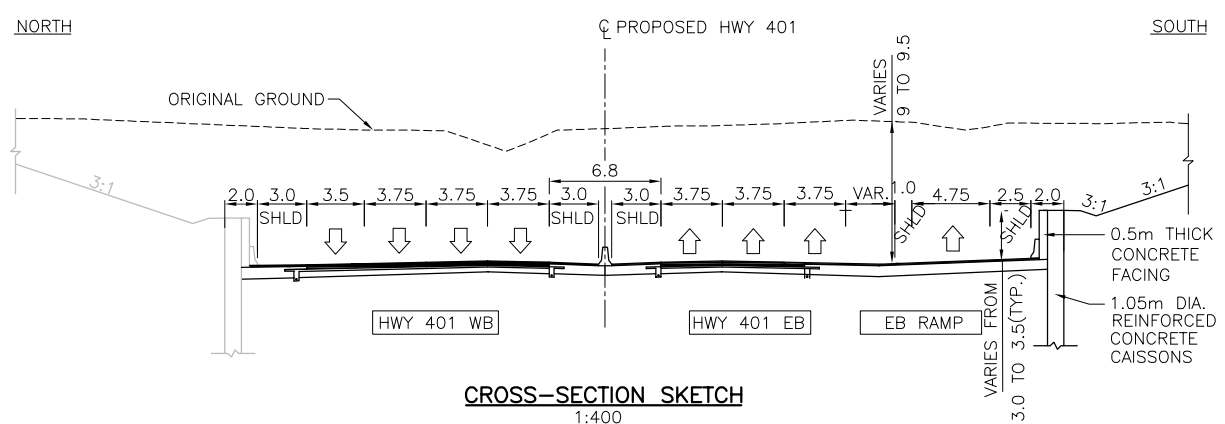
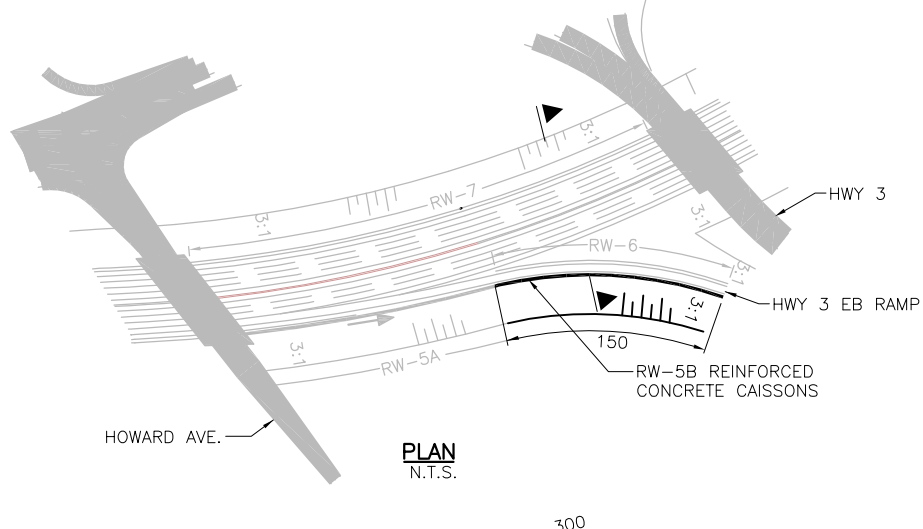


LENGTH (m)	150 SOUTH SIDE		WIDTH (m)	----
STRUCTURAL DEPTH (m)	----		SPAN/DEPTH RATIO	----
SKREW ANGLE	----		VERTICAL CLEARANCE (m)	----
UNIT PRICE (\$/m)	NEW STRUCTURE	27,000	ESTIMATED COST (\$)	4,050,000
	REHABILITATION	----		
COMMENTS (SPECIAL CONSTRUCTION & DESIGN FEATURES)	- HEIGHT OF THIS STRUCTURE MAY BE REDUCED AFTER DETAILED REVIEW AT NEXT STAGE OF DESIGN.			
NAME OF CONSULTANT (FOR PLANNING)	URS CANADA INC.		DATE	FEBRUARY 2008

FILENAME: C:\projects\2014\DRG_LAST REPORT\BA-2C-REV-FEB-CAISSONWALL\Bridges\Alternative-2C-REV-FEB-2008-BRIDGES.dwg
 PLOT DATE: Mar 17, 2008 3:21 pm

STRUCTURAL PLANNING SHEET

W.O.NO.	----	CORRIDOR	HC-T	ROUTE	ALIGNMENT ALTERNATIVE "THE PARKWAY"
STRUCTURE I.D.	RW-5B	SITE NO.	----	LOCATION	EAST OF HOWARD AVENUE
STRUCTURE NAME	BELOW GRADE HWY 401 WITH HWY 3 EB RAMP AT EAST OF HOWARD AVENUE (EAST SIDE)			<input type="checkbox"/> EXISTING <input checked="" type="checkbox"/> NEW	<input type="checkbox"/> OVERPASS <input type="checkbox"/> UNDERPASS <input checked="" type="checkbox"/> BELOW GRADE HWY <input type="checkbox"/> APPROACH RAMP
STRUCTURE DESCRIPTION	CAISSON RETAINING WALL (TYPE "D") OF VARIABLE HEIGHT ON SOUTH SIDE				

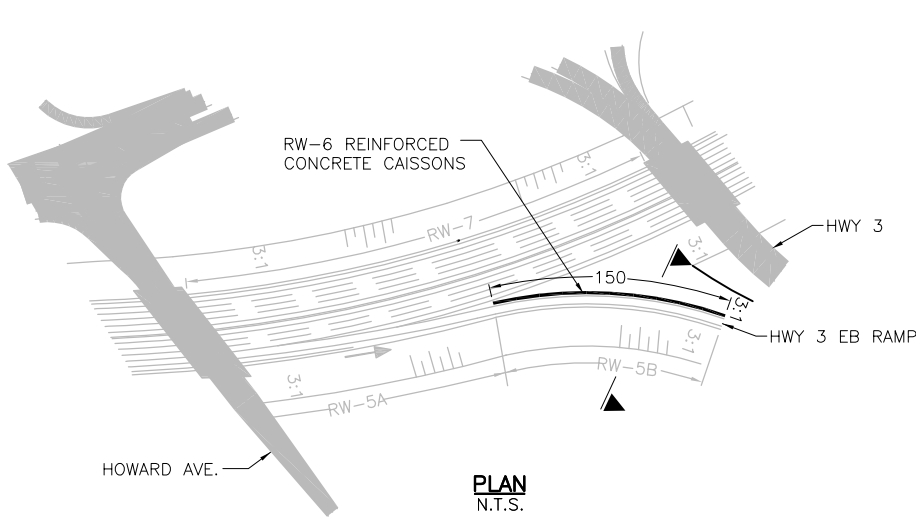


LENGTH (m)	150 SOUTH SIDE	WIDTH (m)	----
STRUCTURAL DEPTH (m)	----	SPAN/DEPTH RATIO	----
SKEW ANGLE	----	VERTICAL CLEARANCE (m)	----
UNIT PRICE (\$/m)	NEW STRUCTURE	27,000	ESTIMATED COST (\$) 4,050,000
	REHABILITATION	----	
COMMENTS (SPECIAL CONSTRUCTION & DESIGN FEATURES)	- HEIGHT OF THIS STRUCTURE MAY BE REDUCED AFTER DETAILED REVIEW AT NEXT STAGE OF DESIGN.		
NAME OF CONSULTANT (FOR PLANNING)	URS CANADA INC.	DATE	FEBRUARY 2008

FILENAME: \\Common\Oits\DRG_LAST_REPORT\BA-2C-REV-FEB-CAISSINWALL\BridgesAlternative-2C-REV-Feb-2008-BRIDGES.dwg
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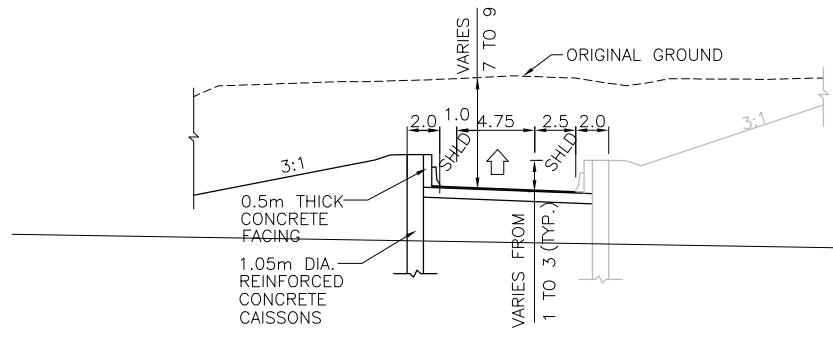
STRUCTURAL PLANNING SHEET

W.O.NO.	----	CORRIDOR	HC-T	ROUTE	ALIGNMENT ALTERNATIVE "THE PARKWAY"
STRUCTURE I.D.	RW-6	SITE NO.	----	LOCATION	EAST OF HOWARD AVENUE
STRUCTURE NAME	HWY 3 EB RAMP AT EAST OF HOWARD AVENUE			<input type="checkbox"/> EXISTING <input checked="" type="checkbox"/> NEW	<input type="checkbox"/> OVERPASS <input type="checkbox"/> UNDERPASS <input checked="" type="checkbox"/> BELOW GRADE HWY <input type="checkbox"/> APPROACH RAMP
STRUCTURE DESCRIPTION	CAISSON RETAINING WALL (TYPE "D") OF VARIABLE HEIGHT ON NORTH SIDE				



PLAN
N.T.S.

NORTH SOUTH



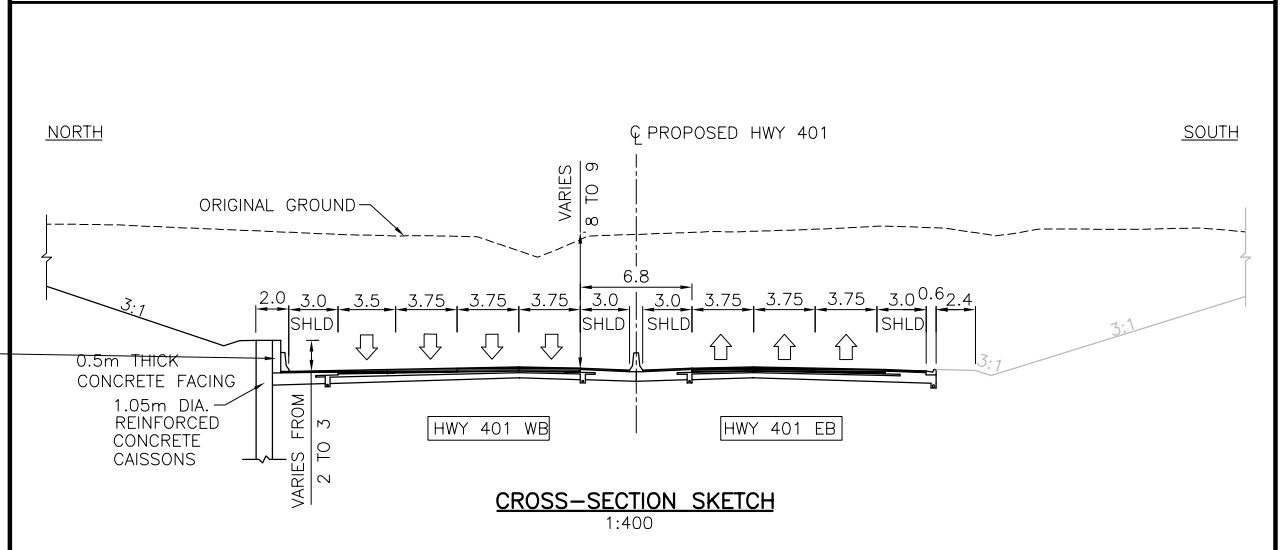
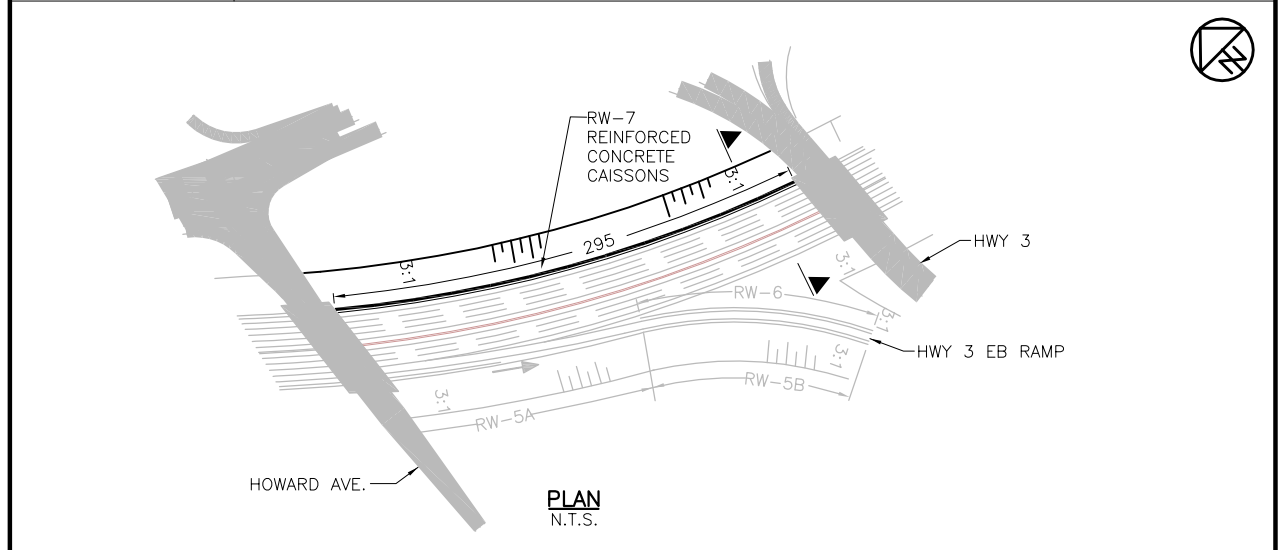
CROSS-SECTION SKETCH
1:400

LENGTH (m)	150 NORTH SIDE		WIDTH (m)	----
STRUCTURAL DEPTH (m)	----		SPAN/DEPTH RATIO	----
SKEW ANGLE	----		VERTICAL CLEARANCE (m)	----
UNIT PRICE (\$/m)	NEW STRUCTURE	27,000	ESTIMATED COST (\$)	4,050,000
	REHABILITATION	----		
COMMENTS (SPECIAL CONSTRUCTION & DESIGN FEATURES)	- THIS STRUCTURE MAY BE DELETED AFTER DETAILED REVIEW AT NEXT STAGE OF DESIGN.			
NAME OF CONSULTANT (FOR PLANNING)	URS CANADA INC.	DATE	FEBRUARY 2008	

FILENAME: \\Common\01ts\URC_LAST_REPORT\BA-2C-REV-FEB-CAISSINWALL\Bridges\Alternative-2C-REV-Feb-2008-BRIDGES.dwg
 PLOTDATE: Mar 17, 2008 - 3:22pm

STRUCTURAL PLANNING SHEET

W.O.NO.	----	CORRIDOR	HC-T	ROUTE	ALIGNMENT ALTERNATIVE 'THE PARKWAY'
STRUCTURE I.D.	RW-7	SITE NO.	----	LOCATION	WEST OF HWY 3 CROSSING
STRUCTURE NAME	BELOW GRADE HWY 401 AT EAST OF HOWARD AVENUE			<input type="checkbox"/> EXISTING <input checked="" type="checkbox"/> NEW	<input type="checkbox"/> OVERPASS <input type="checkbox"/> UNDERPASS <input type="checkbox"/> BELOW GRADE HWY <input checked="" type="checkbox"/> APPROACH RAMP
STRUCTURE DESCRIPTION	CAISSON RETAINING WALL (TYPE "D") OF VARIABLE HEIGHT ON NORTH SIDE				

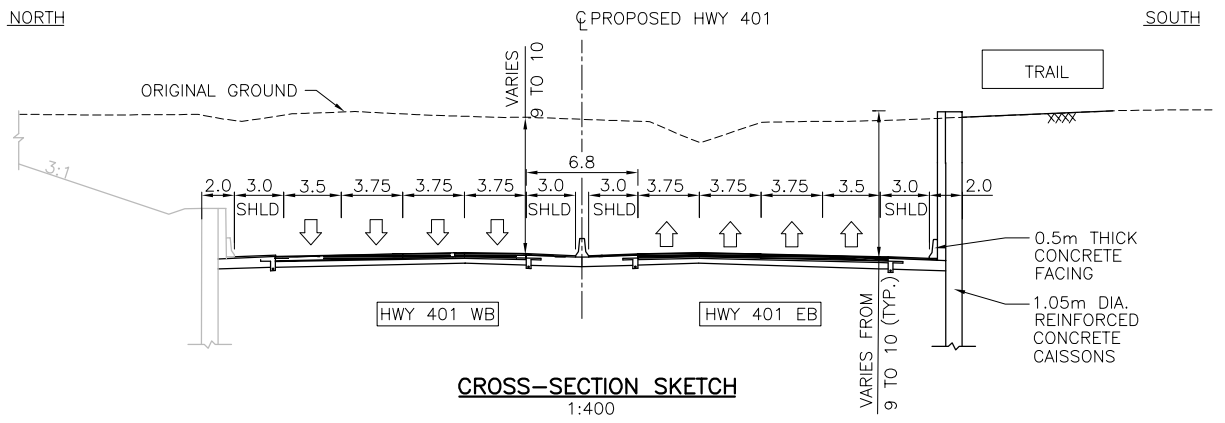
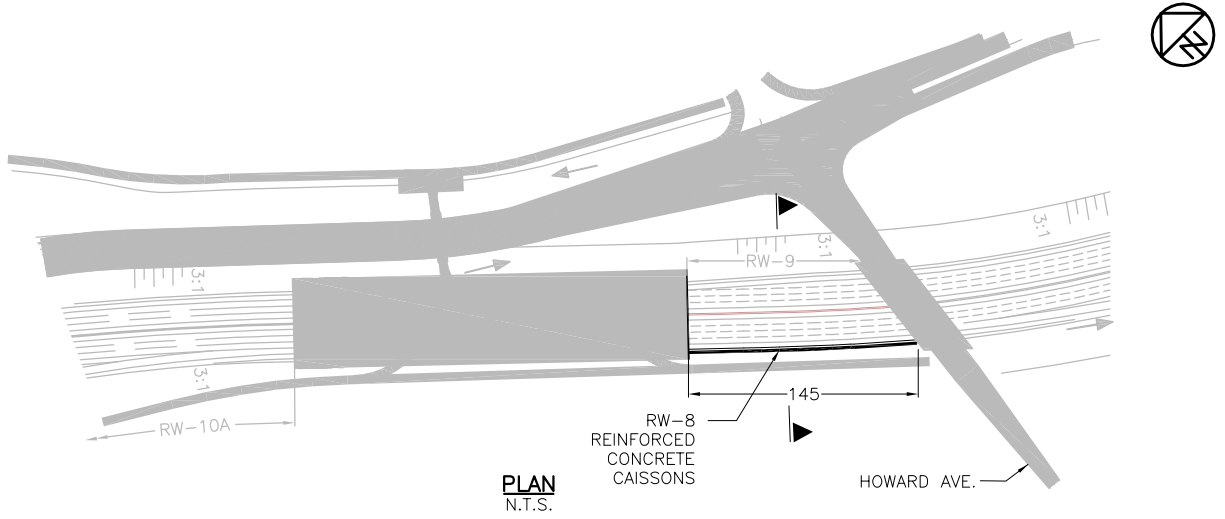


LENGTH (m)	295 NORTH SIDE		WIDTH (m)	----
STRUCTURAL DEPTH (m)	----		SPAN/DEPTH RATIO	----
SKREW ANGLE	----		VERTICAL CLEARANCE (m)	----
UNIT PRICE (\$/m)	NEW STRUCTURE	27,000	ESTIMATED COST (\$)	7,965,000
	REHABILITATION	----		
COMMENTS (SPECIAL CONSTRUCTION & DESIGN FEATURES)	- THIS STRUCTURE MAY BE DELETED AFTER DETAILED REVIEW AT NEXT STAGE OF DESIGN.			
NAME OF CONSULTANT (FOR PLANNING)	URS CANADA INC.		DATE	FEBRUARY 2008

FILENAME: C:\projects\2014\DRG_LAST REPORT\BA-20-REV-FEB-CAISSINWALL\Bridges\Alternative-20-REV-FEB-2008-BRIDGES.dwg
 PLOT DATE: Mar 17, 2008 3:33 pm

STRUCTURAL PLANNING SHEET

W.O.NO.	----	CORRIDOR	HC-T	ROUTE	ALIGNMENT ALTERNATIVE 'THE PARKWAY'
STRUCTURE I.D.	RW-8	SITE NO.	----	LOCATION	WEST OF HOWARD AVENUE
STRUCTURE NAME	BELOW GRADE HWY 401 AT WEST OF HOWARD AVENUE			<input type="checkbox"/> EXISTING <input checked="" type="checkbox"/> NEW	<input type="checkbox"/> OVERPASS <input type="checkbox"/> UNDERPASS <input checked="" type="checkbox"/> BELOW GRADE HWY <input type="checkbox"/> APPROACH RAMP
STRUCTURE DESCRIPTION	CAISSON RETAINING WALL (TYPE "BS3") OF VARIABLE HEIGHT ON SOUTH SIDE				

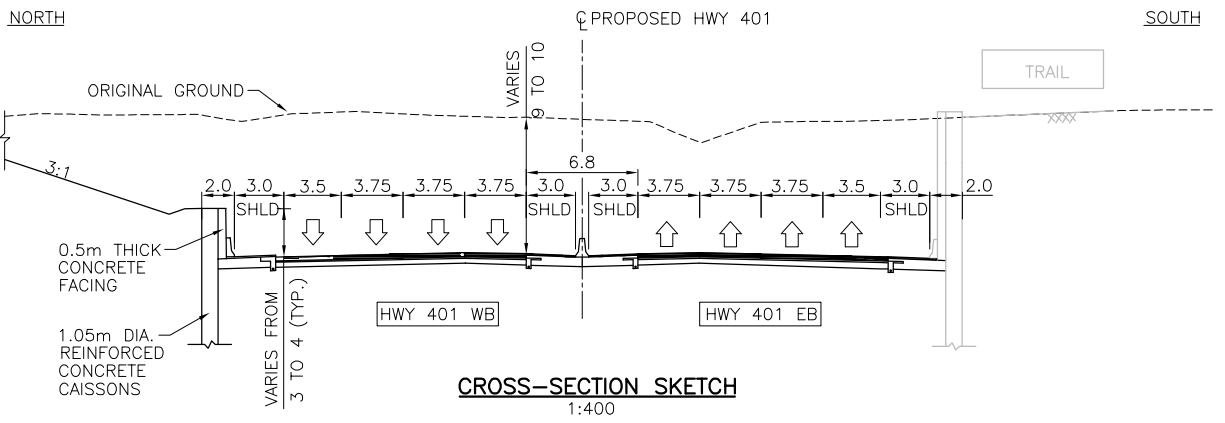
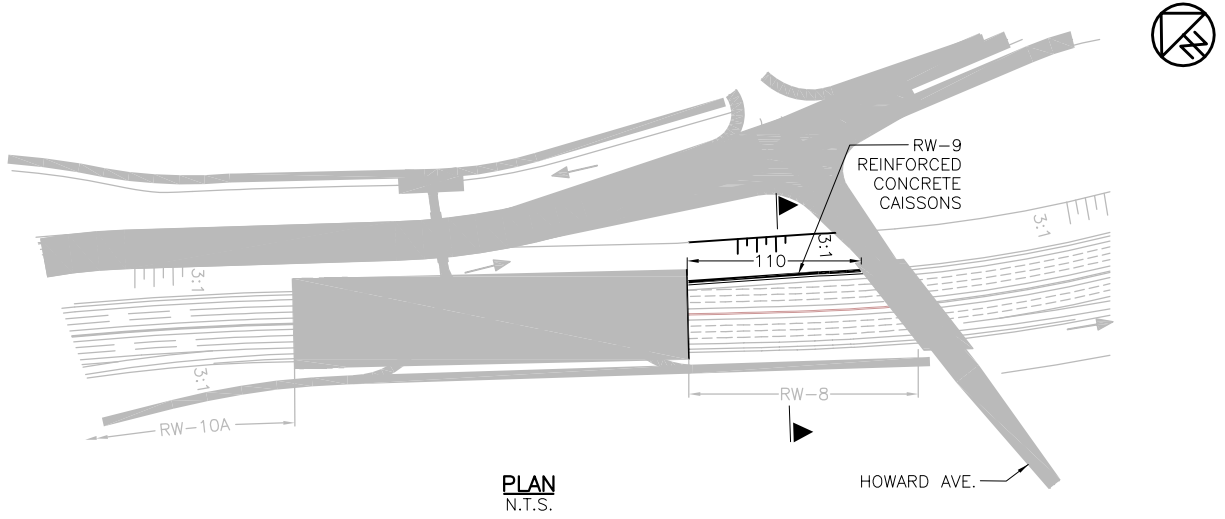


LENGTH (m)	145 SOUTH SIDE		WIDTH (m)	----
STRUCTURAL DEPTH (m)	----		SPAN/DEPTH RATIO	----
SKEW ANGLE	----		VERTICAL CLEARANCE (m)	----
UNIT PRICE (\$/m)	NEW STRUCTURE	32,500	ESTIMATED COST (\$)	4,712,500
	REHABILITATION	----		
COMMENTS (SPECIAL CONSTRUCTION & DESIGN FEATURES)				
NAME OF CONSULTANT (FOR PLANNING)	URS CANADA INC.		DATE	FEBRUARY 2008

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 PLOTDATE: Mar 17, 2008 3:32pm

STRUCTURAL PLANNING SHEET

W.O.NO.	----	CORRIDOR	HC-T	ROUTE	ALIGNMENT ALTERNATIVE "THE PARKWAY"
STRUCTURE I.D.	RW-9	SITE NO.	----	LOCATION	WEST OF HOWARD AVENUE
STRUCTURE NAME	BELOW GRADE HWY 401 AT WEST OF HOWARD AVENUE		<input type="checkbox"/> EXISTING <input checked="" type="checkbox"/> NEW	<input type="checkbox"/> OVERPASS <input type="checkbox"/> UNDERPASS	<input checked="" type="checkbox"/> BELOW GRADE HWY <input type="checkbox"/> APPROACH RAMP
STRUCTURE DESCRIPTION	CAISSON RETAINING WALL (TYPE "D") OF VARIABLE HEIGHT ON NORTH SIDE				

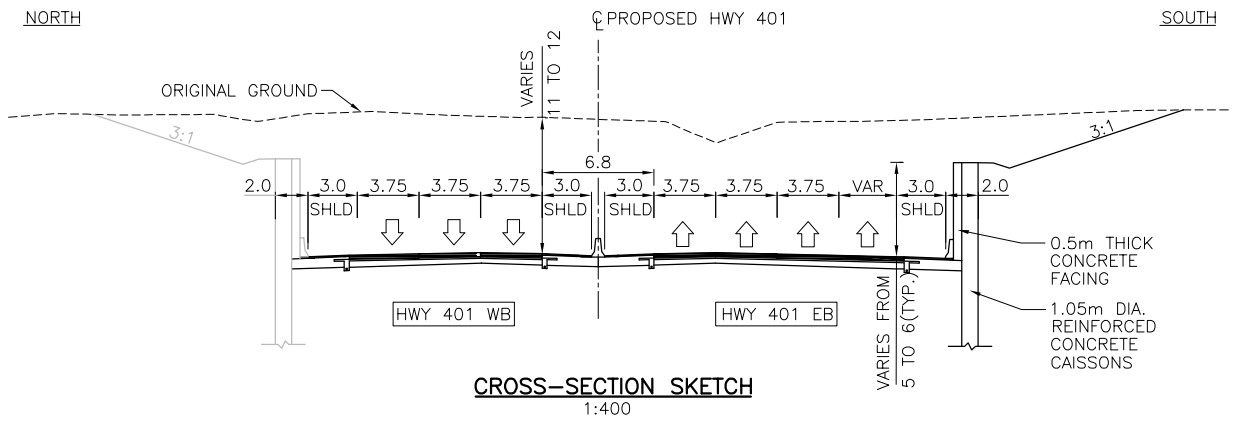
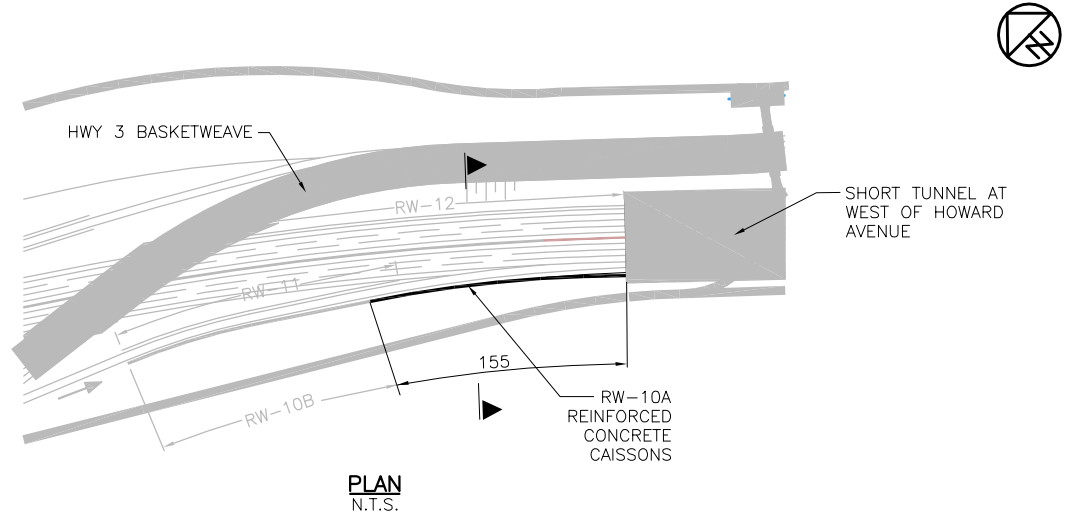


LENGTH (m)	110 NORTH SIDE		WIDTH (m)	----
STRUCTURAL DEPTH (m)	----		SPAN/DEPTH RATIO	----
SKEW ANGLE	----		VERTICAL CLEARANCE (m)	----
UNIT PRICE (\$/m)	NEW STRUCTURE	27,000	ESTIMATED COST (\$)	2,970,000
	REHABILITATION	----		
COMMENTS (SPECIAL CONSTRUCTION & DESIGN FEATURES)				
NAME OF CONSULTANT (FOR PLANNING)	URS CANADA INC.		DATE	FEBRUARY 2008

FILENAME: C:\projects\2014\DRG_LAST REPORT\BA-2C-REV-FEB-CAISSINWALL\Bridges\Alternative-2C-REV-FEB-2008-BRIDGES.dwg
 PLOT DATE: Mar 17, 2008 3:32pm

STRUCTURAL PLANNING SHEET

W.O.NO.	----	CORRIDOR	HC-T	ROUTE	ALIGNMENT ALTERNATIVE 'THE PARKWAY'
STRUCTURE I.D.	RW-10A	SITE NO.	----	LOCATION	EAST OF HWY3 BASKETWEAVE
STRUCTURE NAME	BELOW GRADE HWY 401 WITH EB LANE OF HWY 3 AT WEST OF HOWARD AVENUE (EAST SIDE)		<input type="checkbox"/> EXISTING <input checked="" type="checkbox"/> NEW	<input type="checkbox"/> OVERPASS <input type="checkbox"/> UNDERPASS	<input checked="" type="checkbox"/> BELOW GRADE HWY <input type="checkbox"/> APPROACH RAMP
STRUCTURE DESCRIPTION	CAISSON RETAINING WALL (TYPE "A") OF VARIABLE HEIGHT ON SOUTH SIDE				

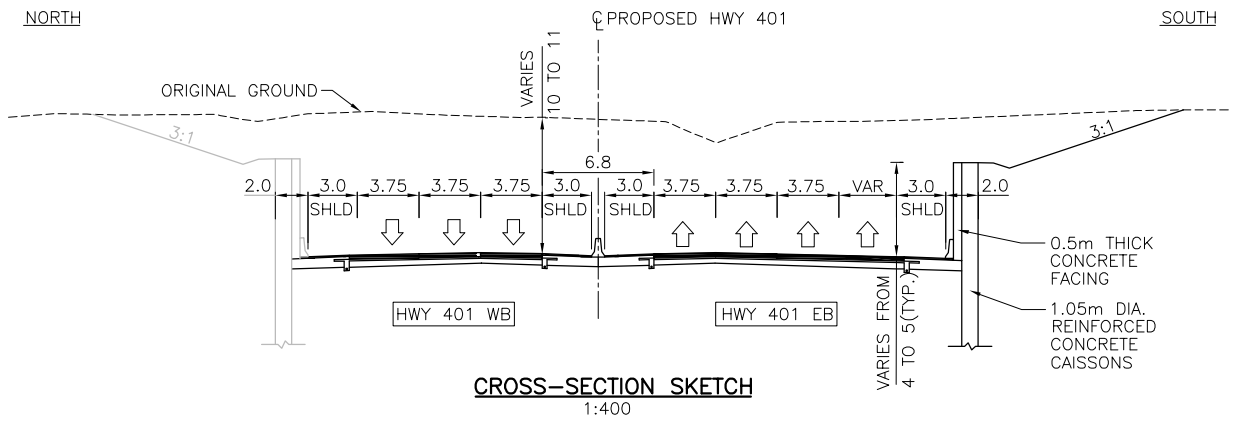
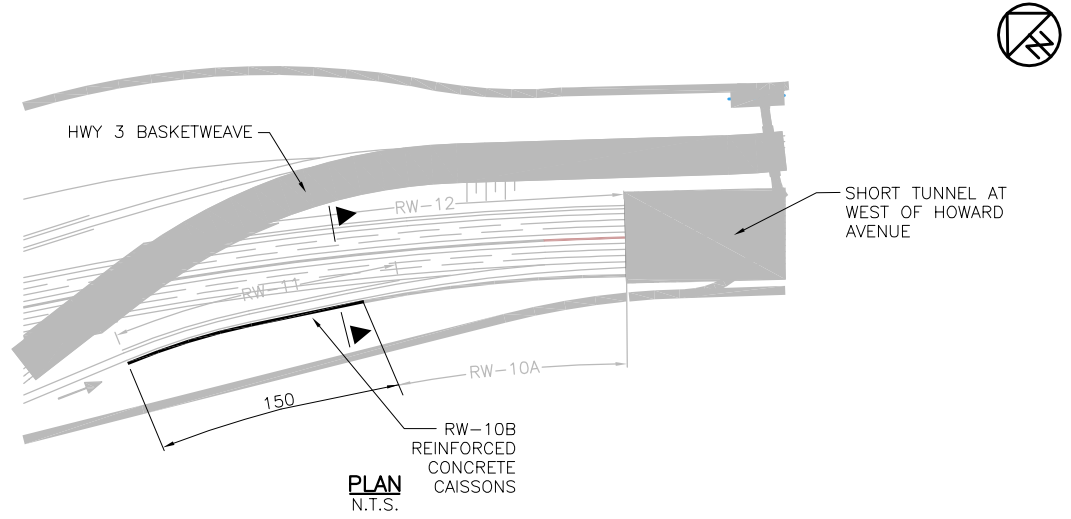


LENGTH (m)	155 SOUTH SIDE		WIDTH (m)	----
STRUCTURAL DEPTH (m)	----		SPAN/DEPTH RATIO	----
SKEW ANGLE	----		VERTICAL CLEARANCE (m)	----
UNIT PRICE (\$/m)	NEW STRUCTURE	31,000	ESTIMATED COST (\$)	4,805,000
	REHABILITATION	----		
COMMENTS (SPECIAL CONSTRUCTION & DESIGN FEATURES)				
NAME OF CONSULTANT (FOR PLANNING)	URS CANADA INC.		DATE	FEBRUARY 2008

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 PLOTDATE: Mar 17, 2008 3:33pm

STRUCTURAL PLANNING SHEET

W.O.NO.	----	CORRIDOR	HC-T	ROUTE	ALIGNMENT ALTERNATIVE 'THE PARKWAY'
STRUCTURE I.D.	RW-10B	SITE NO.	----	LOCATION	EAST OF HWY3 BASKETWEAVE
STRUCTURE NAME	BELOW GRADE HWY 401 WITH EB LANE OF HWY 3 AT WEST OF HOWARD AVENUE (WEST SIDE)		<input type="checkbox"/> EXISTING <input checked="" type="checkbox"/> NEW	<input type="checkbox"/> OVERPASS <input type="checkbox"/> UNDERPASS	<input checked="" type="checkbox"/> BELOW GRADE HWY <input type="checkbox"/> APPROACH RAMP
STRUCTURE DESCRIPTION	CAISSON RETAINING WALL (TYPE "A") OF VARIABLE HEIGHT ON SOUTH SIDE				

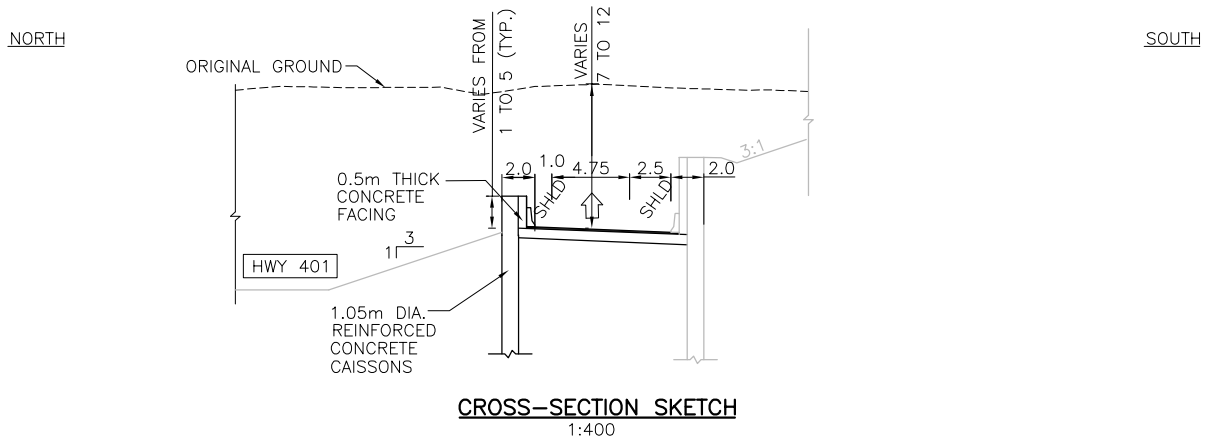
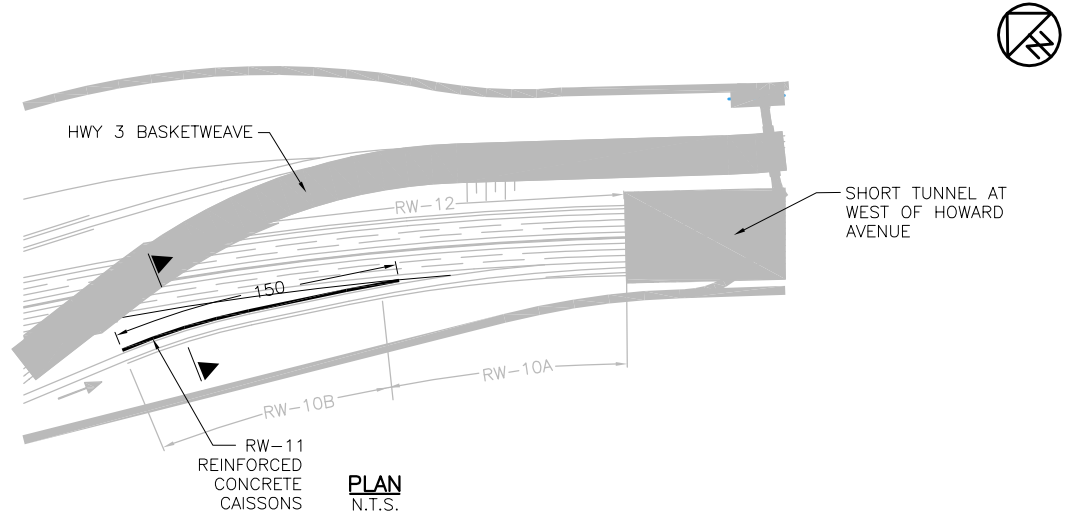


LENGTH (m)	150 SOUTH SIDE		WIDTH (m)	----
STRUCTURAL DEPTH (m)	----		SPAN/DEPTH RATIO	----
SKEW ANGLE	----		VERTICAL CLEARANCE (m)	----
UNIT PRICE (\$/m)	NEW STRUCTURE	31,000	ESTIMATED COST (\$)	4,650,000
	REHABILITATION	----		
COMMENTS (SPECIAL CONSTRUCTION & DESIGN FEATURES)				
NAME OF CONSULTANT (FOR PLANNING)	URS CANADA INC.		DATE	FEBRUARY 2008

FILENAME: C:\projects\2014\DRG_LAST REPORT\BA-2C-REV-FEB-CAISSINWALL\BridgAlternative-2C-REV-FEB-2008-BRIDGES.dwg
 PLOTDATE: Mar 17, 2008 3:33pm

STRUCTURAL PLANNING SHEET

W.O.NO.	----	CORRIDOR	HC-T	ROUTE	ALIGNMENT ALTERNATIVE "THE PARKWAY"
STRUCTURE I.D.	RW-11	SITE NO.	----	LOCATION	EAST OF HWY 3 BASKETWEAVE
STRUCTURE NAME	APPROACH RAMP OF HWY 3 EB LANE AT EAST OF MONTGOMERY DRIVE		<input type="checkbox"/> EXISTING <input checked="" type="checkbox"/> NEW	<input type="checkbox"/> OVERPASS <input type="checkbox"/> UNDERPASS	<input checked="" type="checkbox"/> BELOW GRADE HWY <input type="checkbox"/> APPROACH RAMP
STRUCTURE DESCRIPTION	CAISSON RETAINING WALL (TYPE "A") OF VARIABLE HEIGHT ON NORTH SIDE				

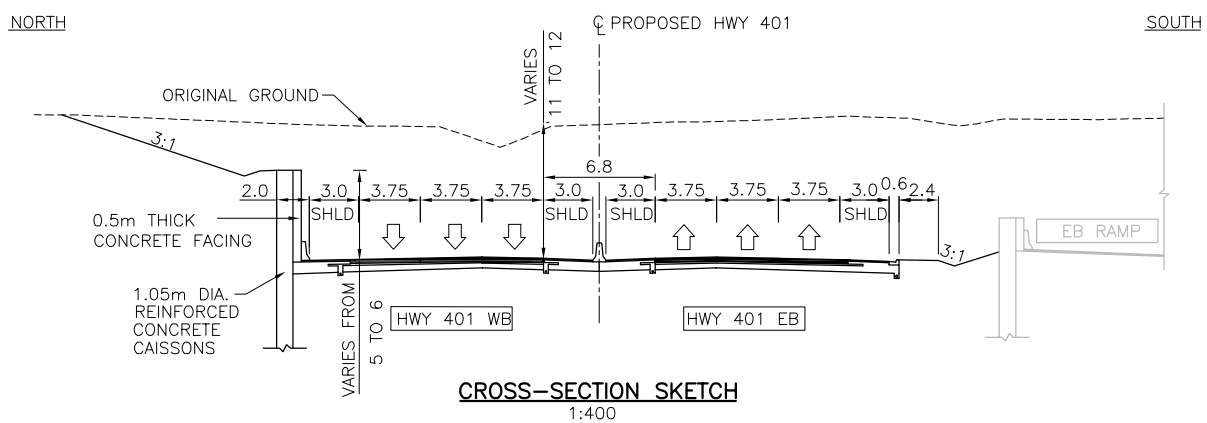
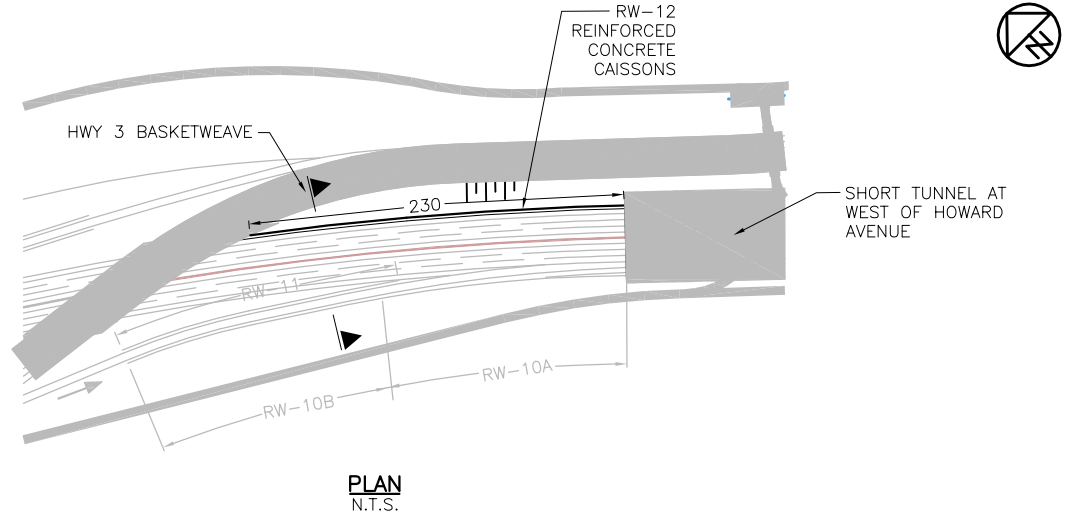


LENGTH (m)	150 NORTH SIDE	WIDTH (m)	----
STRUCTURAL DEPTH (m)	----	SPAN/DEPTH RATIO	----
SKEW ANGLE	----	VERTICAL CLEARANCE (m)	----
UNIT PRICE (\$/m)	NEW STRUCTURE	31,000	ESTIMATED COST (\$) 4,650,000
	REHABILITATION	----	
COMMENTS (SPECIAL CONSTRUCTION & DESIGN FEATURES)	- THIS STRUCTURE MAY BE DELETED AFTER DETAILED REVIEW AT NEXT STAGE OF DESIGN.		
NAME OF CONSULTANT (FOR PLANNING)	URS CANADA INC.	DATE	FEBRUARY 2008

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 PLOT DATE: Mar 17, 2008 3:34pm

STRUCTURAL PLANNING SHEET

W.O.NO.	----	CORRIDOR	HC-T	ROUTE	ALIGNMENT ALTERNATIVE "THE PARKWAY"
STRUCTURE I.D.	RW-12	SITE NO.	----	LOCATION	EAST OF HWY 3 BASKETWEAVE
STRUCTURE NAME	BELOW GRADE HWY 401 AT EAST OF HWY 3 CROSSING NEAR MONTGOMERY DRIVE			<input type="checkbox"/> EXISTING <input checked="" type="checkbox"/> NEW	<input type="checkbox"/> OVERPASS <input type="checkbox"/> UNDERPASS <input type="checkbox"/> BELOW GRADE HWY <input checked="" type="checkbox"/> APPROACH RAMP
STRUCTURE DESCRIPTION	CAISSON RETAINING WALL (TYPE "A") OF VARIABLE HEIGHT ON NORTH SIDE				

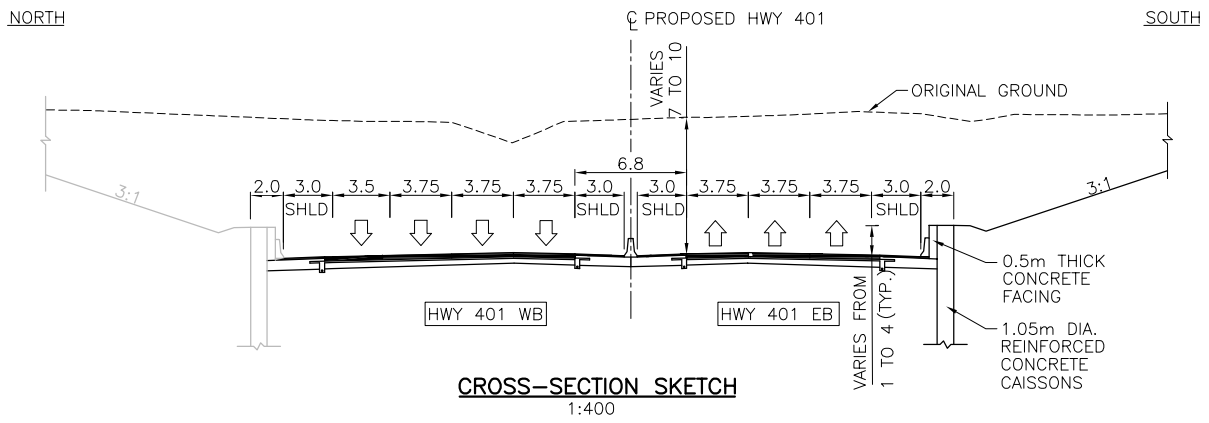
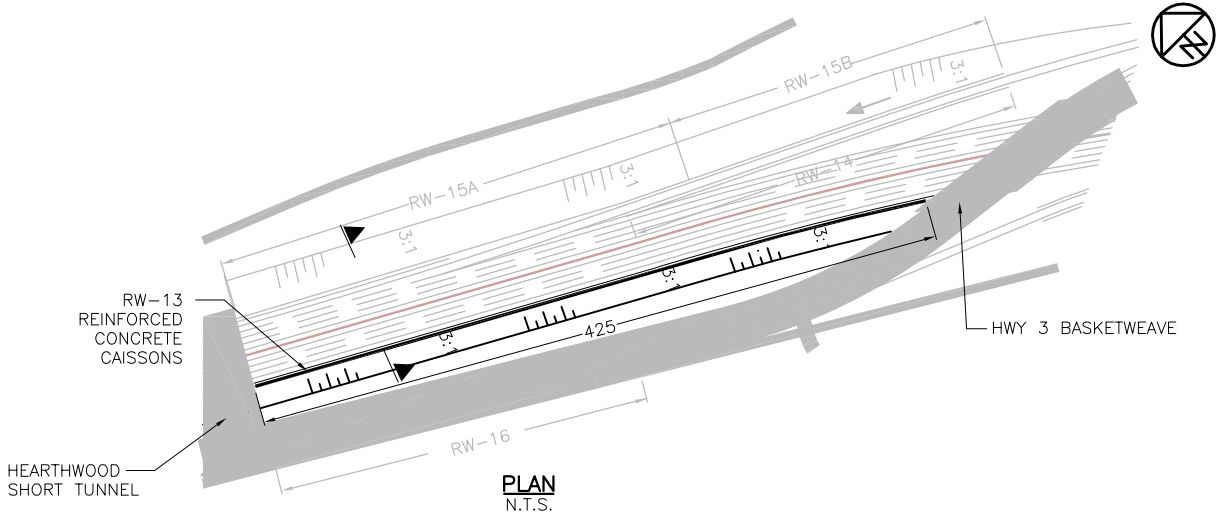


LENGTH (m)	230 NORTH SIDE		WIDTH (m)	----
STRUCTURAL DEPTH (m)	----		SPAN/DEPTH RATIO	----
SKEW ANGLE	----		VERTICAL CLEARANCE (m)	----
UNIT PRICE (\$/m)	NEW STRUCTURE	31,000	ESTIMATED COST (\$)	7,130,000
	REHABILITATION	----		
COMMENTS (SPECIAL CONSTRUCTION & DESIGN FEATURES)				
NAME OF CONSULTANT (FOR PLANNING)	URS CANADA INC.	DATE	FEBRUARY 2008	

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STRUCTURAL PLANNING SHEET

W.O.NO.	----	CORRIDOR	HC-T	ROUTE	ALIGNMENT ALTERNATIVE 'THE PARKWAY'
STRUCTURE I.D.	RW-13	SITE NO.	----	LOCATION	EAST OF HEARTHWOOD SHORT TUNNEL
STRUCTURE NAME	BELOW GRADE HWY 401 AT EAST OF HEARTHWOOD SHORT TUNNEL			<input type="checkbox"/> EXISTING <input checked="" type="checkbox"/> NEW	<input type="checkbox"/> OVERPASS <input type="checkbox"/> UNDERPASS <input checked="" type="checkbox"/> BELOW GRADE HWY <input type="checkbox"/> APPROACH RAMP
STRUCTURE DESCRIPTION	CAISSON RETAINING WALL (TYPE "A") OF VARIABLE HEIGHT ON SOUTH SIDE				

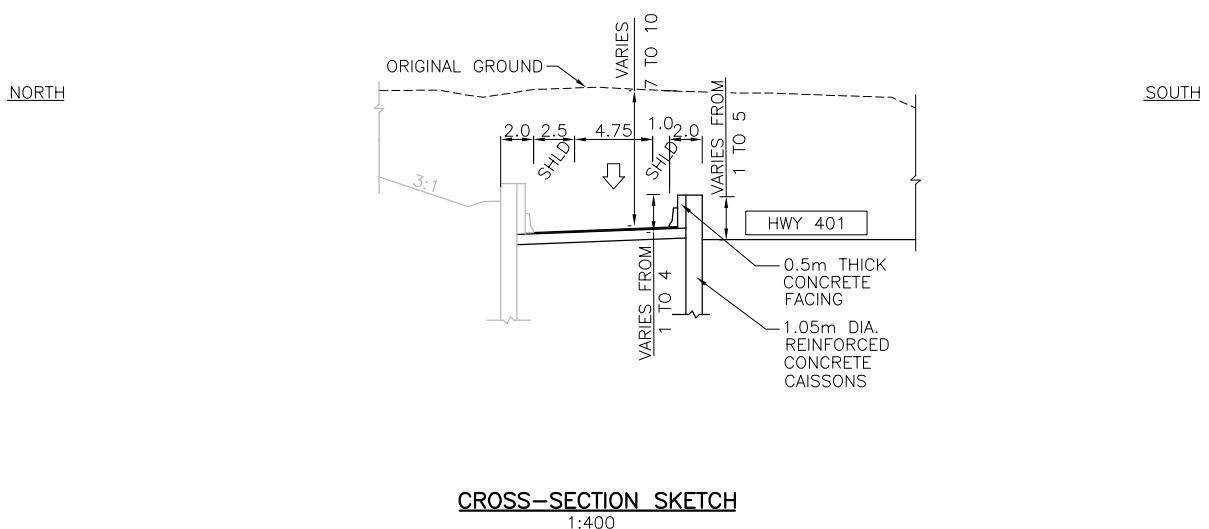
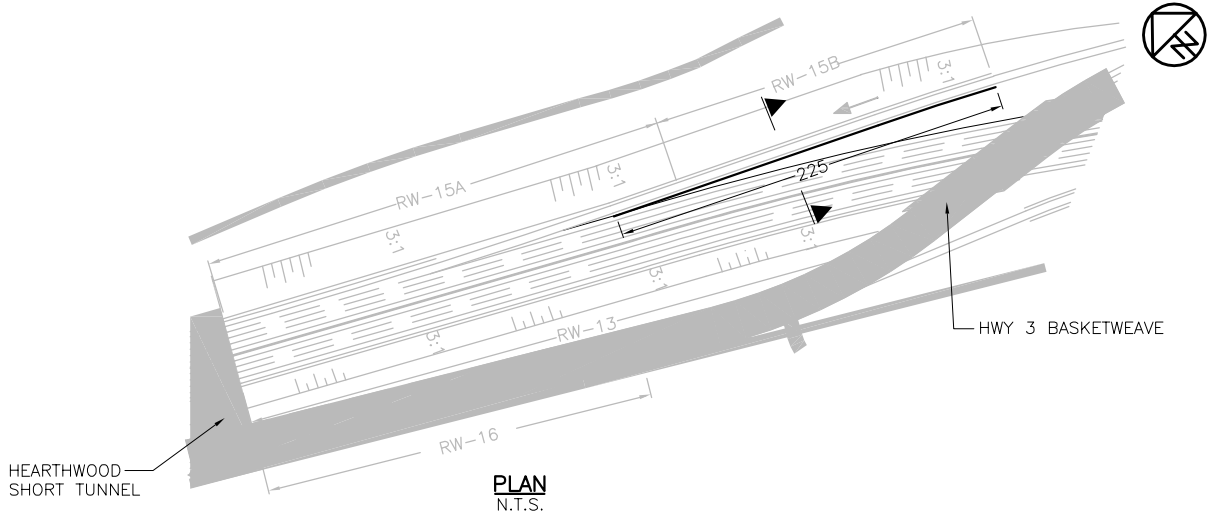


LENGTH (m)	425 SOUTH SIDE		WIDTH (m)	----
STRUCTURAL DEPTH (m)	----		SPAN/DEPTH RATIO	----
SKEW ANGLE	----		VERTICAL CLEARANCE (m)	----
UNIT PRICE (\$/m)	NEW STRUCTURE	31,000	ESTIMATED COST (\$)	13,175,000
	REHABILITATION	----		
COMMENTS (SPECIAL CONSTRUCTION & DESIGN FEATURES)	- CERTAIN LENGTH OF THIS STRUCTURE MAY BE DELETED AFTER DETAILED REVIEW AT NEXT STAGE OF DESIGN.			
NAME OF CONSULTANT (FOR PLANNING)	URS CANADA INC.		DATE	FEBRUARY 2008

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STRUCTURAL PLANNING SHEET

W.O.NO.	----	CORRIDOR	HC-T	ROUTE	ALIGNMENT ALTERNATIVE 'THE PARKWAY'
STRUCTURE I.D.	RW-14	SITE NO.	----	LOCATION	WEST OF HWY 3 BASKETWEAVE NEAR MONTGOMERY DRIVE
STRUCTURE NAME	APPROACH RAMP OF HWY 3 BASKETWEAVE WB LANE NEAR MONTGOMERY DRIVE			<input type="checkbox"/> EXISTING <input checked="" type="checkbox"/> NEW	<input type="checkbox"/> OVERPASS <input type="checkbox"/> UNDERPASS <input type="checkbox"/> BELOW GRADE HWY <input checked="" type="checkbox"/> APPROACH RAMP
STRUCTURE DESCRIPTION	CAISSON RETAINING WALL (TYPE "A") OF VARIABLE HEIGHT ON SOUTH SIDE				

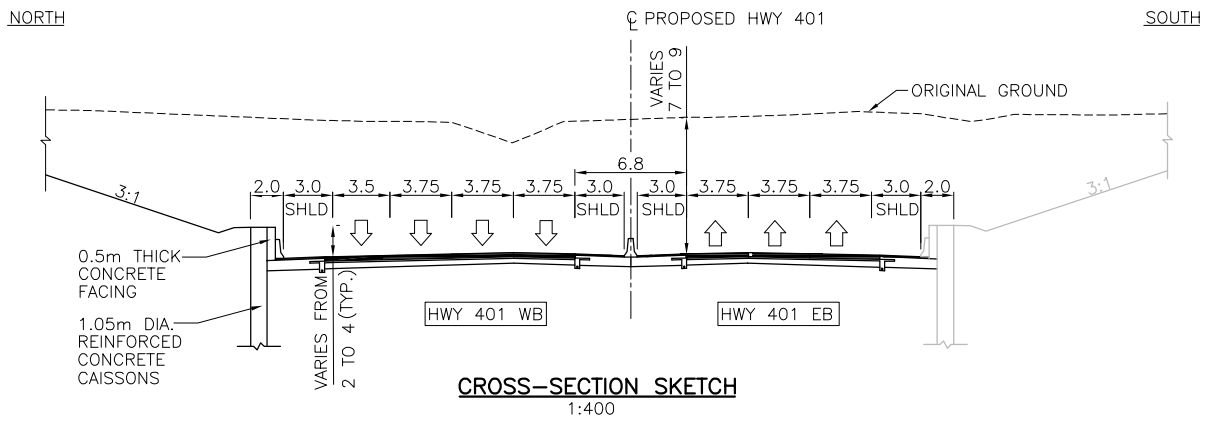
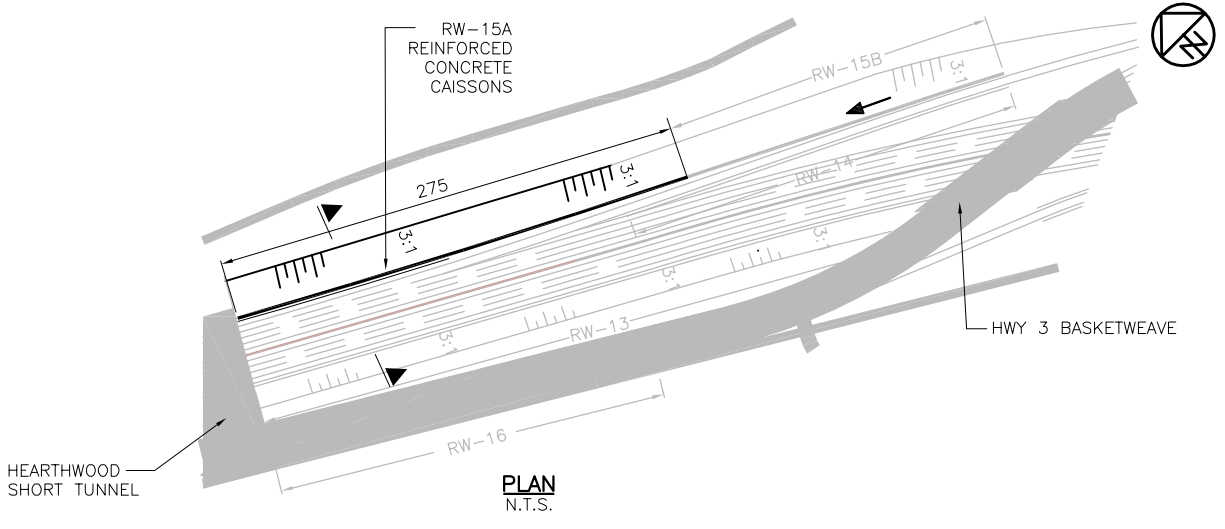


LENGTH (m)	225 SOUTH SIDE		WIDTH (m)	----
STRUCTURAL DEPTH (m)	----		SPAN/DEPTH RATIO	----
SKREW ANGLE	----		VERTICAL CLEARANCE (m)	----
UNIT PRICE (\$/m)	NEW STRUCTURE	31,000	ESTIMATED COST (\$)	6,975,000
	REHABILITATION	----		
COMMENTS (SPECIAL CONSTRUCTION & DESIGN FEATURES)	- THIS STRUCTURE MAY BE DELETED AFTER DETAILED REVIEW AT NEXT STAGE OF DESIGN.			
NAME OF CONSULTANT (FOR PLANNING)	URS CANADA INC.		DATE	FEBRUARY 2008

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STRUCTURAL PLANNING SHEET

W.O.NO.	----	CORRIDOR	HC-T	ROUTE	ALIGNMENT ALTERNATIVE 'THE PARKWAY'
STRUCTURE I.D.	RW-15A	SITE NO.	----	LOCATION	EAST OF HEARTHWOOD SHORT TUNNEL
STRUCTURE NAME	BELOW GRADE HWY 401 AT EAST OF HEARTHWOOD SHORT TUNNEL (WEST SIDE)			<input type="checkbox"/> EXISTING <input checked="" type="checkbox"/> NEW	<input type="checkbox"/> OVERPASS <input type="checkbox"/> UNDERPASS <input checked="" type="checkbox"/> BELOW GRADE HWY <input type="checkbox"/> APPROACH RAMP
STRUCTURE DESCRIPTION	CAISSON RETAINING WALL (TYPE "A") OF VARIABLE HEIGHT ON NORTH SIDE				

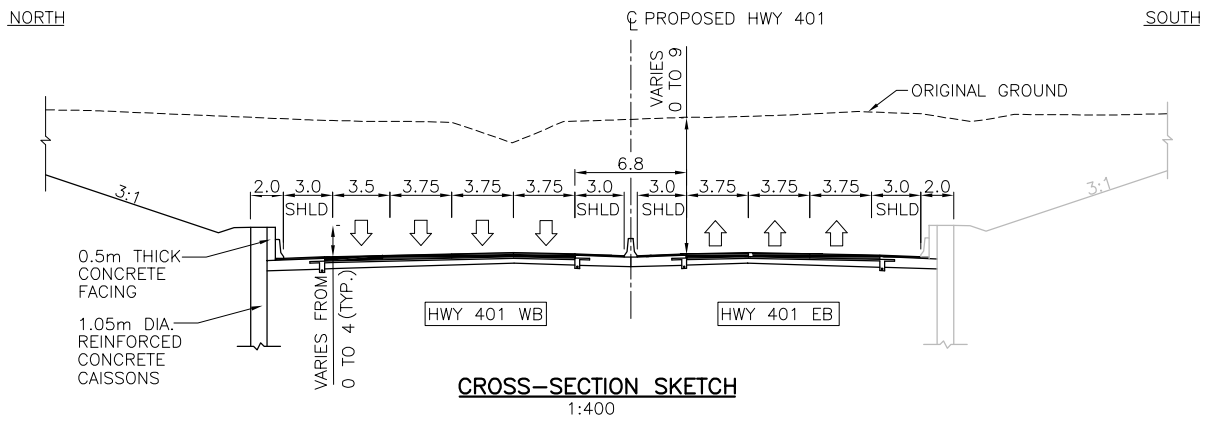
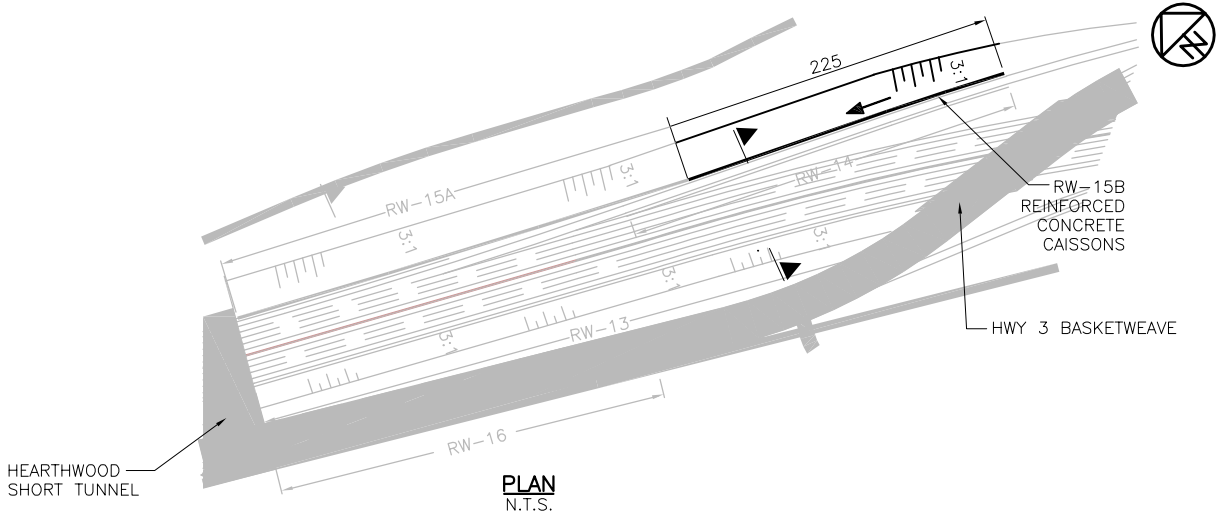


LENGTH (m)	275 NORTH SIDE		WIDTH (m)	----
STRUCTURAL DEPTH (m)	----		SPAN/DEPTH RATIO	----
SKREW ANGLE	----		VERTICAL CLEARANCE (m)	----
UNIT PRICE (\$/m)	NEW STRUCTURE	31,000	ESTIMATED COST (\$)	8,525,000
	REHABILITATION	----		
COMMENTS (SPECIAL CONSTRUCTION & DESIGN FEATURES)	- CERTAIN PORTION OF THIS STRUCTURE MAY BE DELETED AFTER DETAILED REVIEW AT NEXT STAGE OF DESIGN.			
NAME OF CONSULTANT (FOR PLANNING)	URS CANADA INC.		DATE	FEBRUARY 2008

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STRUCTURAL PLANNING SHEET

W.O.NO.	----	CORRIDOR	HC-T	ROUTE	ALIGNMENT ALTERNATIVE 'THE PARKWAY'
STRUCTURE I.D.	RW-15B	SITE NO.	----	LOCATION	EAST OF HEARTHWOOD SHORT TUNNEL
STRUCTURE NAME	BELOW GRADE HWY 401 AT EAST OF HEARTHWOOD SHORT TUNNEL (EAST SIDE)		<input type="checkbox"/> EXISTING <input checked="" type="checkbox"/> NEW	<input type="checkbox"/> OVERPASS <input type="checkbox"/> UNDERPASS	<input checked="" type="checkbox"/> BELOW GRADE HWY <input type="checkbox"/> APPROACH RAMP
STRUCTURE DESCRIPTION	CAISSON RETAINING WALL (TYPE "A") OF VARIABLE HEIGHT ON NORTH SIDE				

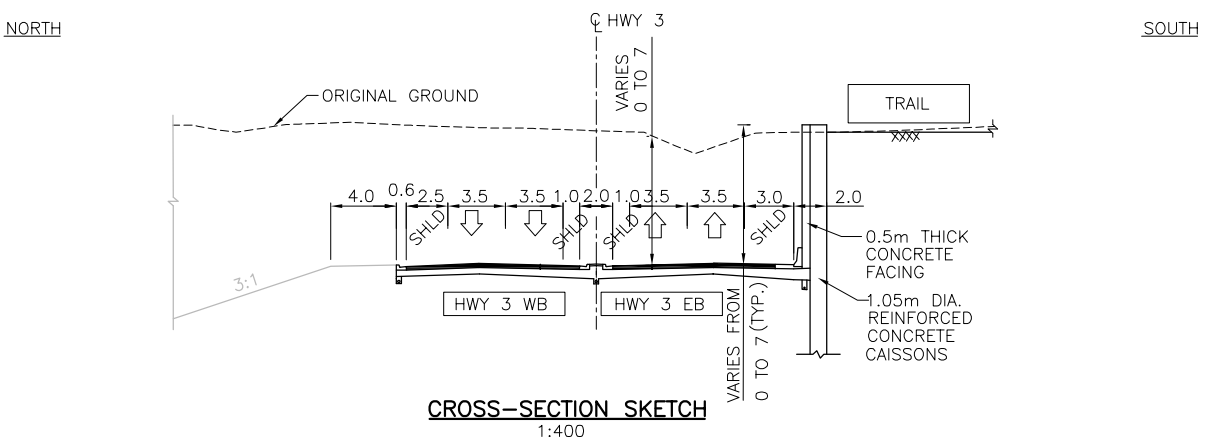
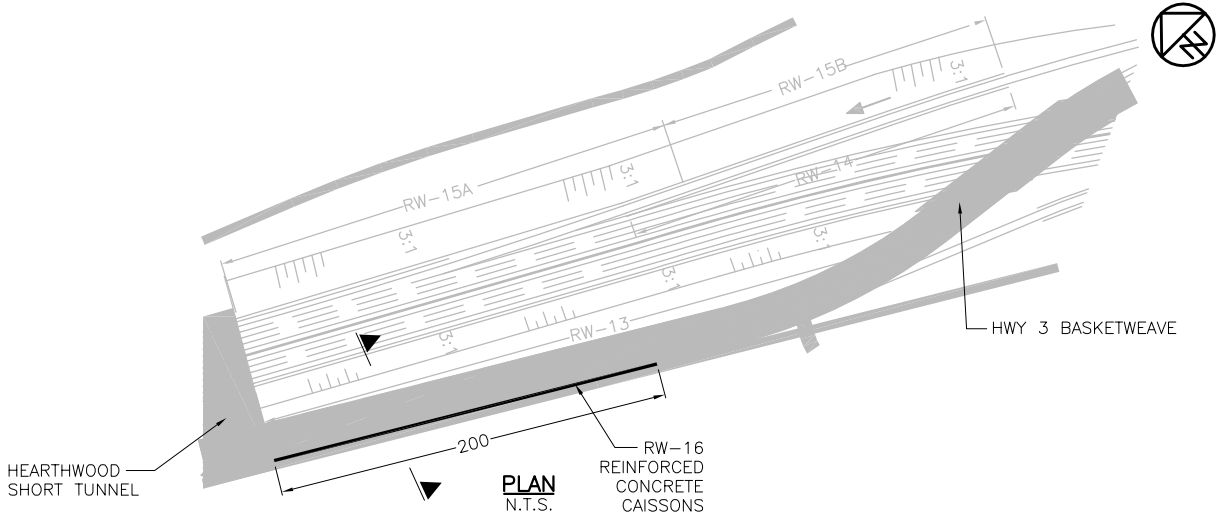


LENGTH (m)	225 NORTH SIDE		WIDTH (m)	----
STRUCTURAL DEPTH (m)	----		SPAN/DEPTH RATIO	----
SKEW ANGLE	----		VERTICAL CLEARANCE (m)	----
UNIT PRICE (\$/m)	NEW STRUCTURE	31,000	ESTIMATED COST (\$)	6,975,000
	REHABILITATION	----		
COMMENTS (SPECIAL CONSTRUCTION & DESIGN FEATURES)	- CERTAIN PORTION OF THIS STRUCTURE MAY BE DELETED AFTER DETAILED REVIEW AT NEXT STAGE OF DESIGN.			
NAME OF CONSULTANT (FOR PLANNING)	URS CANADA INC.		DATE	FEBRUARY 2008

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STRUCTURAL PLANNING SHEET

W.O.NO.	----	CORRIDOR	HC-T	ROUTE	ALIGNMENT ALTERNATIVE 'THE PARKWAY'
STRUCTURE I.D.	RW-16	SITE NO.	----	LOCATION	EAST OF HEARTHWOOD SHORT TUNNEL
STRUCTURE NAME	RAMP OF HWY 3 AT EAST OF HEARTHWOOD SHORT TUNNEL			<input type="checkbox"/> EXISTING <input checked="" type="checkbox"/> NEW	<input type="checkbox"/> OVERPASS <input type="checkbox"/> UNDERPASS <input checked="" type="checkbox"/> BELOW GRADE HWY <input type="checkbox"/> APPROACH RAMP
STRUCTURE DESCRIPTION	CAISSON RETAINING WALL (TYPE "BS1") OF VARIABLE HEIGHT ON SOUTH SIDE				

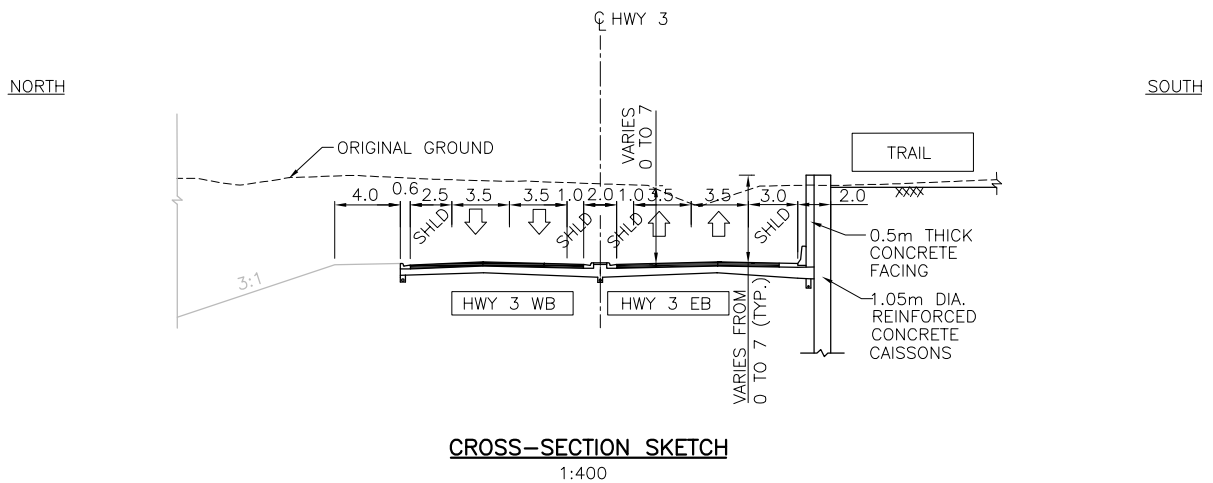
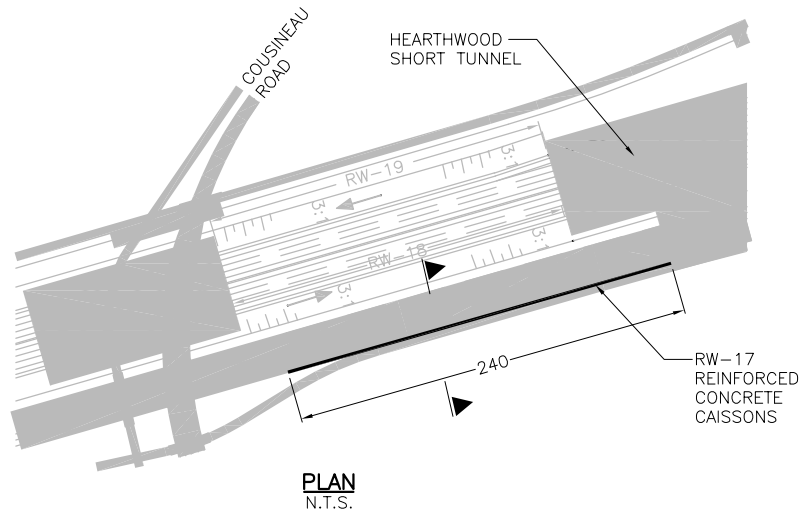


LENGTH (m)	200 SOUTH SIDE		WIDTH (m)	----
STRUCTURAL DEPTH (m)	----		SPAN/DEPTH RATIO	----
SKEW ANGLE	----		VERTICAL CLEARANCE (m)	----
UNIT PRICE (\$/m)	NEW STRUCTURE	15,000	ESTIMATED COST (\$)	3,000,000
	REHABILITATION	----		
COMMENTS (SPECIAL CONSTRUCTION & DESIGN FEATURES)				
NAME OF CONSULTANT (FOR PLANNING)	URS CANADA INC.		DATE	FEBRUARY 2008

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 PLOTDATE: Mar 17, 2008 3:37 pm

STRUCTURAL PLANNING SHEET

W.O.NO.	----	CORRIDOR	HC-T	ROUTE	ALIGNMENT ALTERNATIVE 'THE PARKWAY'
STRUCTURE I.D.	RW-17	SITE NO.	----	LOCATION	WEST OF HEARTHWOOD SHORT TUNNEL
STRUCTURE NAME	RAMP OF HWY 3 AT WEST OF HEARTHWOOD SHORT TUNNEL			<input type="checkbox"/> EXISTING <input checked="" type="checkbox"/> NEW	<input type="checkbox"/> OVERPASS <input type="checkbox"/> UNDERPASS <input checked="" type="checkbox"/> BELOW GRADE HWY <input type="checkbox"/> APPROACH RAMP
STRUCTURE DESCRIPTION	CAISSON RETAINING WALL (TYPE "BS1") OF VARIABLE HEIGHT ON SOUTH SIDE				

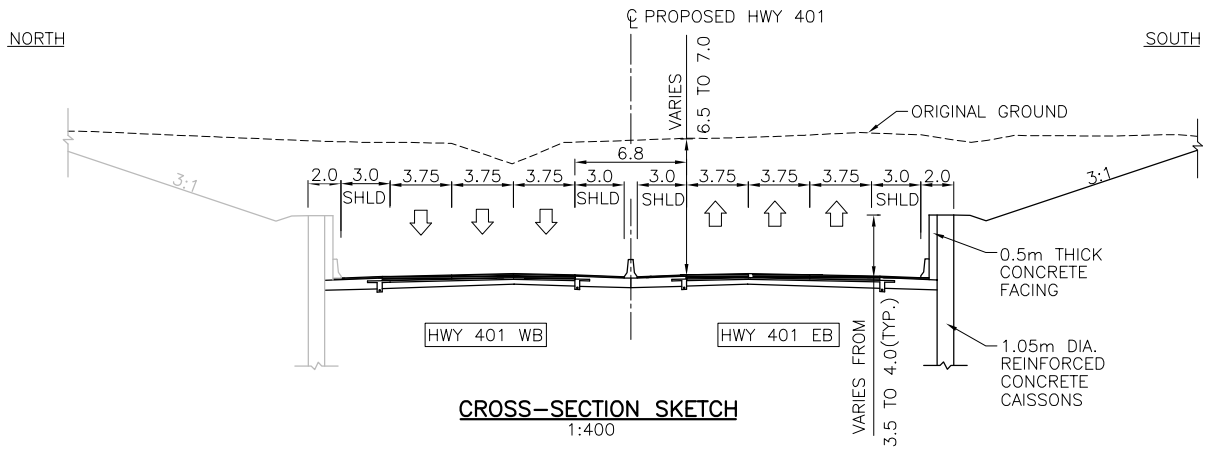
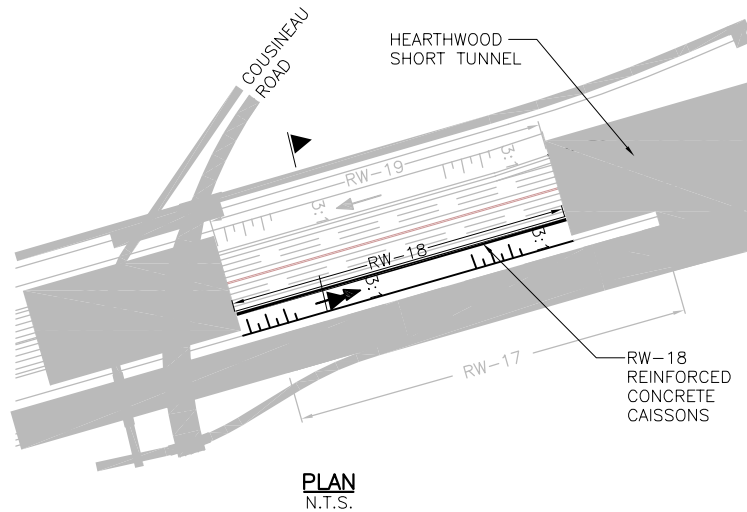


LENGTH (m)	240 SOUTH SIDE		WIDTH (m)	----
STRUCTURAL DEPTH (m)	----		SPAN/DEPTH RATIO	----
SKREW ANGLE	----		VERTICAL CLEARANCE (m)	----
UNIT PRICE (\$/m)	NEW STRUCTURE	15,000	ESTIMATED COST (\$)	3,600,000
	REHABILITATION	----		
COMMENTS (SPECIAL CONSTRUCTION & DESIGN FEATURES)				
NAME OF CONSULTANT (FOR PLANNING)	URS CANADA INC.		DATE	FEBRUARY 2008

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 PLOTDATE: Mar 17, 2008 3:37 pm

STRUCTURAL PLANNING SHEET

W.O.NO.	----	CORRIDOR	HC-T	ROUTE	ALIGNMENT ALTERNATIVE 'THE PARKWAY'
STRUCTURE I.D.	RW-18	SITE NO.	----	LOCATION	EAST OF COUSINEAU ROAD
STRUCTURE NAME	BELOW GRADE HWY 401 AT EAST OF COUSINEAU ROAD			<input type="checkbox"/> EXISTING <input checked="" type="checkbox"/> NEW	<input type="checkbox"/> OVERPASS <input type="checkbox"/> UNDERPASS <input checked="" type="checkbox"/> BELOW GRADE HWY <input type="checkbox"/> APPROACH RAMP
STRUCTURE DESCRIPTION	CAISSON RETAINING WALL (TYPE "D") OF VARIABLE HEIGHT ON SOUTH SIDE				

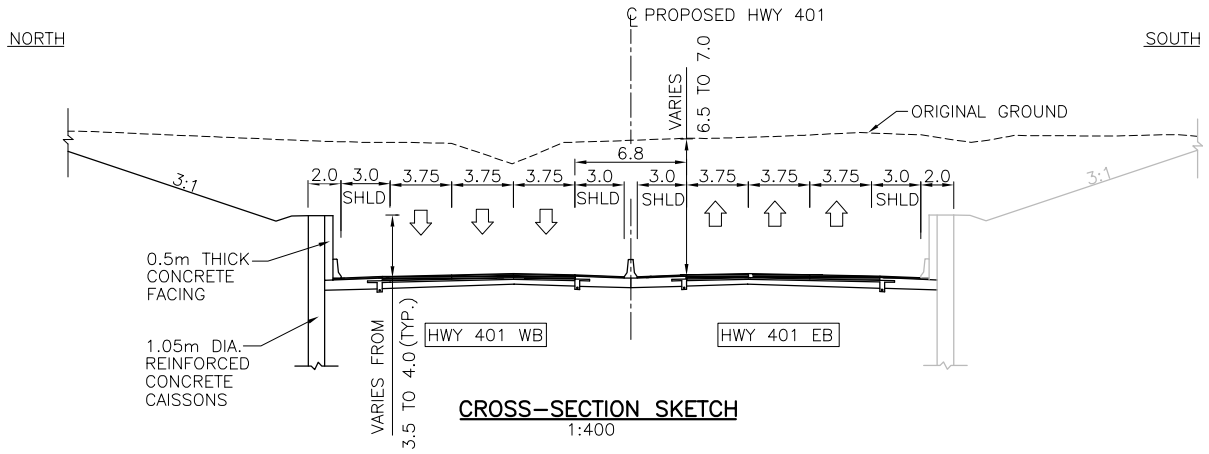
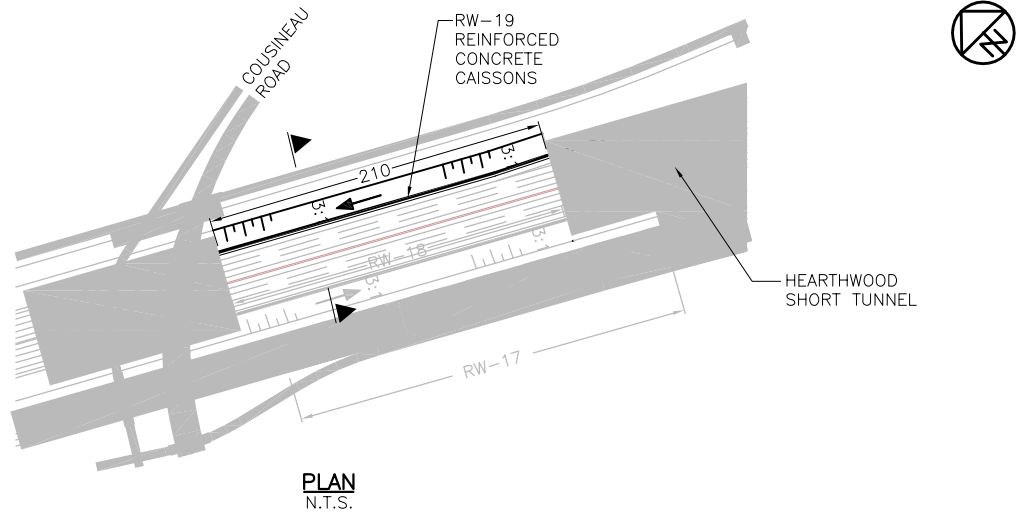


LENGTH (m)	210 SOUTH SIDE		WIDTH (m)	----
STRUCTURAL DEPTH (m)	----		SPAN/DEPTH RATIO	----
SKREW ANGLE	----		VERTICAL CLEARANCE (m)	----
UNIT PRICE (\$/m)	NEW STRUCTURE	27,000	ESTIMATED COST (\$)	5,670,000
	REHABILITATION	----		
COMMENTS (SPECIAL CONSTRUCTION & DESIGN FEATURES)				
NAME OF CONSULTANT (FOR PLANNING)	URS CANADA INC.		DATE	FEBRUARY 2008

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 PLOTDATE: Mar 17, 2008 3:37 pm

STRUCTURAL PLANNING SHEET

W.O.NO.	----	CORRIDOR	HC-T	ROUTE	ALIGNMENT ALTERNATIVE 'THE PARKWAY'
STRUCTURE I.D.	RW-19	SITE NO.	----	LOCATION	EAST OF COUSINEAU ROAD
STRUCTURE NAME	BELOW GRADE HWY 401 AT EAST OF COUSINEAU ROAD			<input type="checkbox"/> EXISTING <input checked="" type="checkbox"/> NEW	<input type="checkbox"/> OVERPASS <input type="checkbox"/> UNDERPASS <input checked="" type="checkbox"/> BELOW GRADE HWY <input type="checkbox"/> APPROACH RAMP
STRUCTURE DESCRIPTION	CAISSON RETAINING WALL (TYPE "D") OF VARIABLE HEIGHT ON NORTH SIDE				

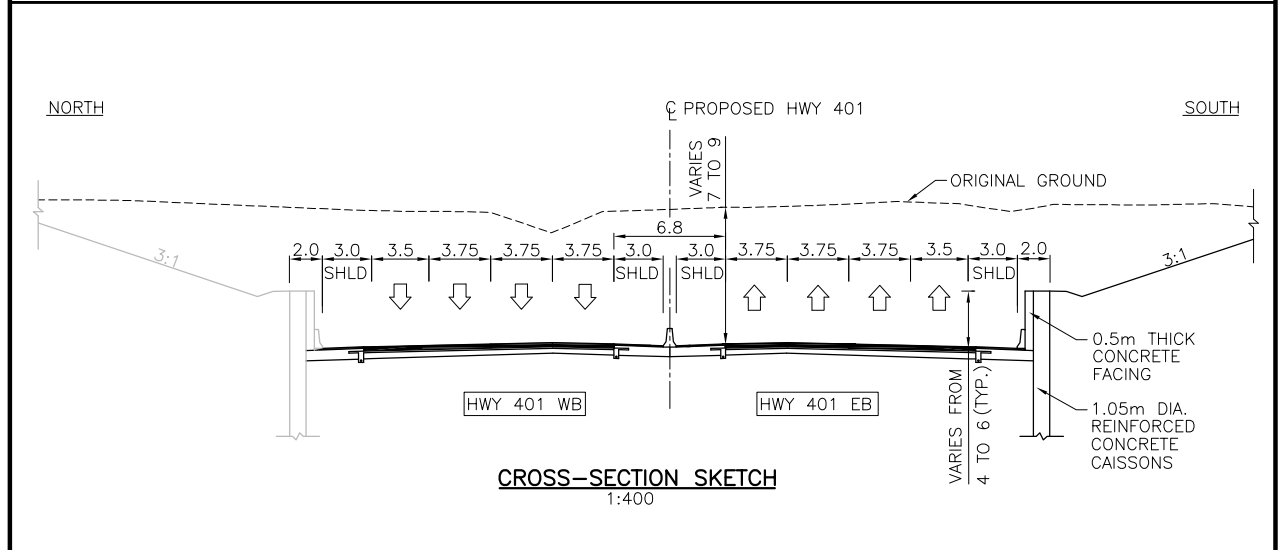
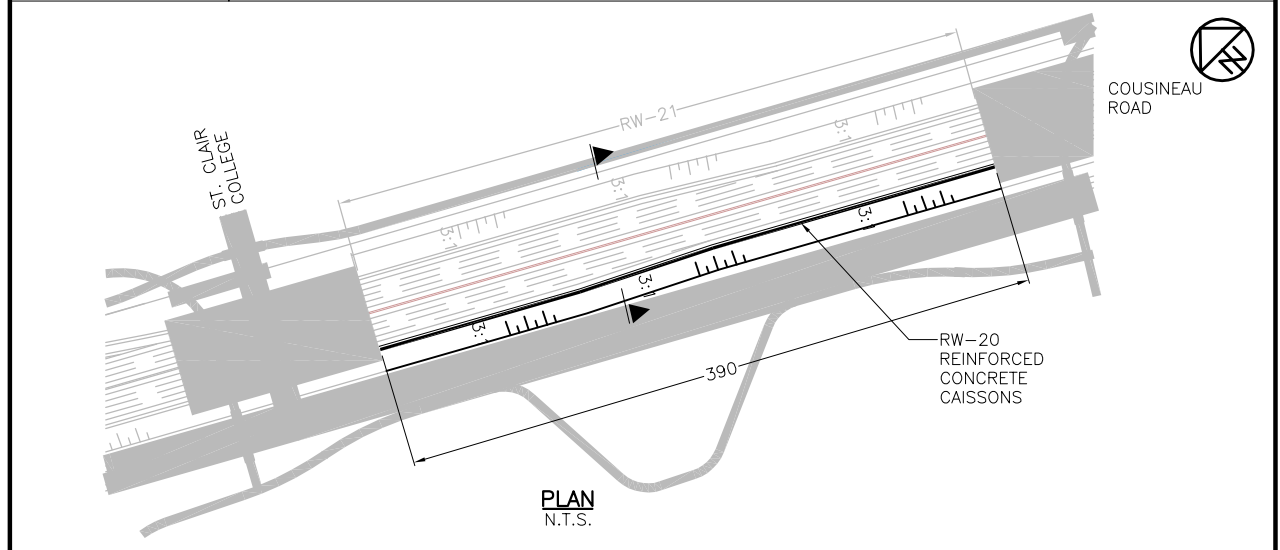


LENGTH (m)	210 NORTH SIDE		WIDTH (m)	----
STRUCTURAL DEPTH (m)	----		SPAN/DEPTH RATIO	----
SKEW ANGLE	----		VERTICAL CLEARANCE (m)	----
UNIT PRICE (\$/m)	NEW STRUCTURE	27,000	ESTIMATED COST (\$)	5,670,000
	REHABILITATION	----		
COMMENTS (SPECIAL CONSTRUCTION & DESIGN FEATURES)				
NAME OF CONSULTANT (FOR PLANNING)	URS CANADA INC.		DATE	FEBRUARY 2008

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STRUCTURAL PLANNING SHEET

W.O.NO.	----	CORRIDOR	HC-T	ROUTE	ALIGNMENT ALTERNATIVE 'THE PARKWAY'
STRUCTURE I.D.	RW-20	SITE NO.	----	LOCATION	BETWEEN COUSINEAU ROAD AND ST. CLAIR COLLEGE
STRUCTURE NAME	BELOW GRADE HWY 401 BETWEEN COUSINEAU ROAD AND ST. CLAIR COLLEGE ENTRANCE			<input type="checkbox"/> EXISTING <input checked="" type="checkbox"/> NEW	<input type="checkbox"/> OVERPASS <input type="checkbox"/> UNDERPASS
STRUCTURE DESCRIPTION	CAISSON RETAINING WALL (TYPE "C") OF VARIABLE HEIGHT ON SOUTH SIDE				

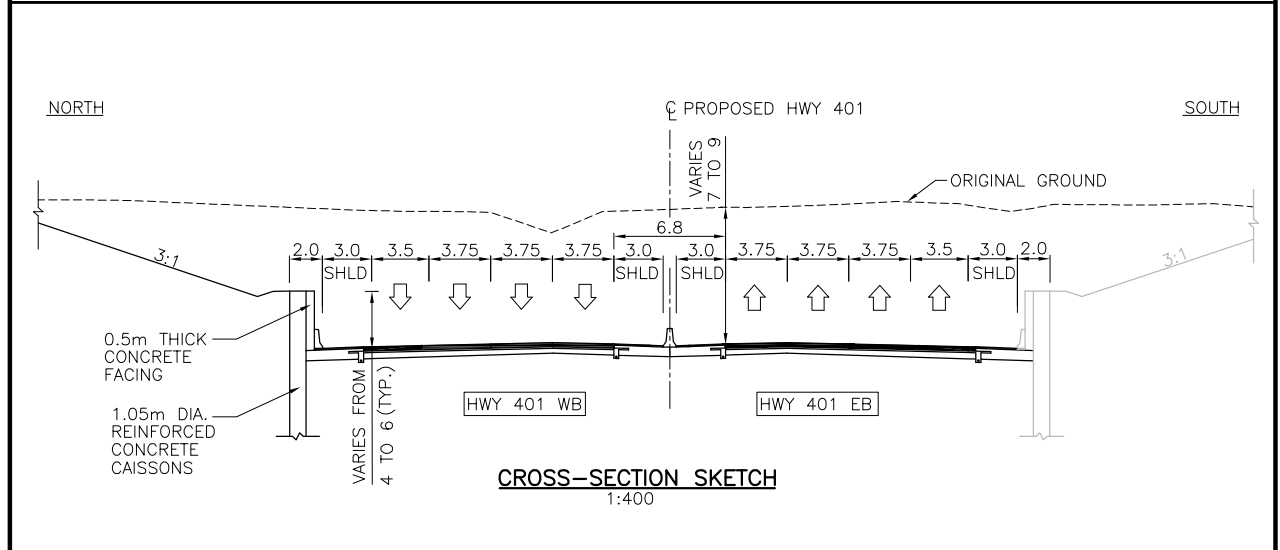
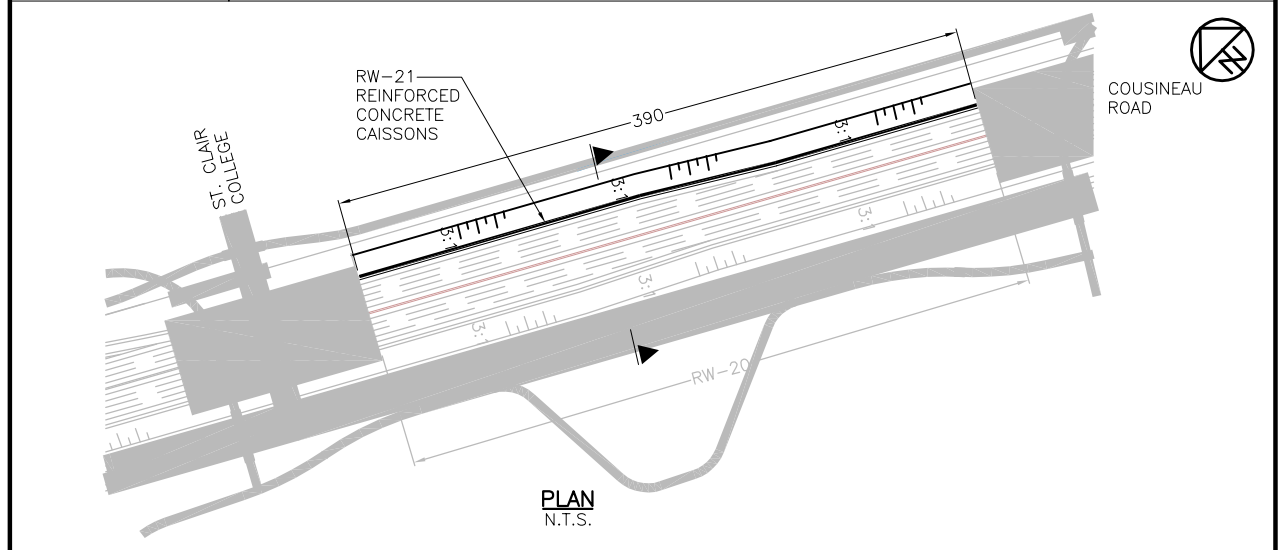


LENGTH (m)	390 SOUTH SIDE		WIDTH (m)	----
STRUCTURAL DEPTH (m)	----		SPAN/DEPTH RATIO	----
SKEW ANGLE	----		VERTICAL CLEARANCE (m)	----
UNIT PRICE (\$/m)	NEW STRUCTURE	32,500	ESTIMATED COST (\$)	12,675,000
	REHABILITATION	----		
COMMENTS (SPECIAL CONSTRUCTION & DESIGN FEATURES)				
NAME OF CONSULTANT (FOR PLANNING)	URS CANADA INC.		DATE	FEBRUARY 2008

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STRUCTURAL PLANNING SHEET

W.O.NO.	----	CORRIDOR	HC-T	ROUTE	ALIGNMENT ALTERNATIVE "THE PARKWAY"
STRUCTURE I.D.	RW-21	SITE NO.	----	LOCATION	BETWEEN COUSINEAU ROAD AND ST. CLAIR COLLEGE
STRUCTURE NAME	BELOW GRADE HWY 401 BETWEEN COUSINEAU ROAD AND ST. CLAIR COLLEGE ENTRANCE			<input type="checkbox"/> EXISTING <input checked="" type="checkbox"/> NEW	<input type="checkbox"/> OVERPASS <input checked="" type="checkbox"/> BELOW GRADE HWY <input type="checkbox"/> UNDERPASS <input type="checkbox"/> APPROACH RAMP
STRUCTURE DESCRIPTION	CAISSON RETAINING WALL (TYPE "C") OF VARIABLE HEIGHT ON NORTH SIDE				

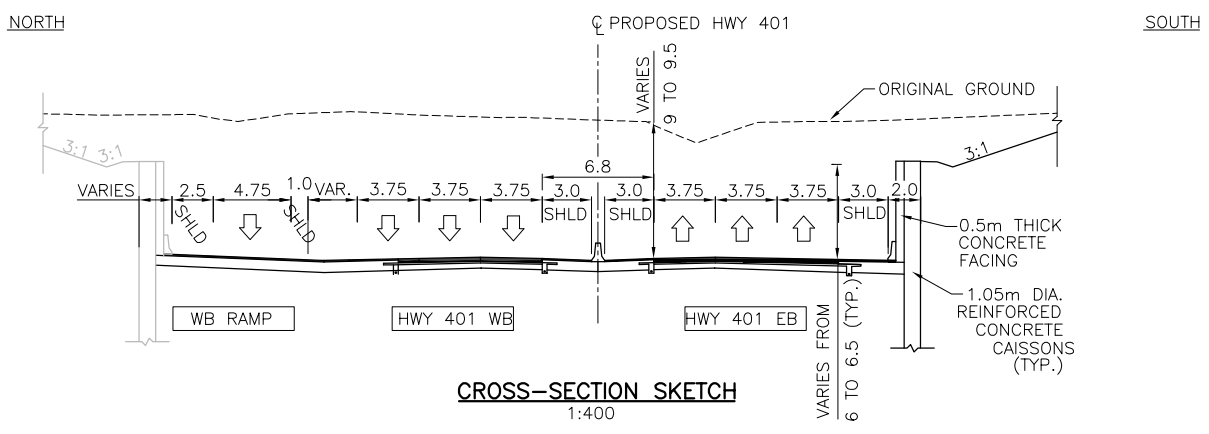
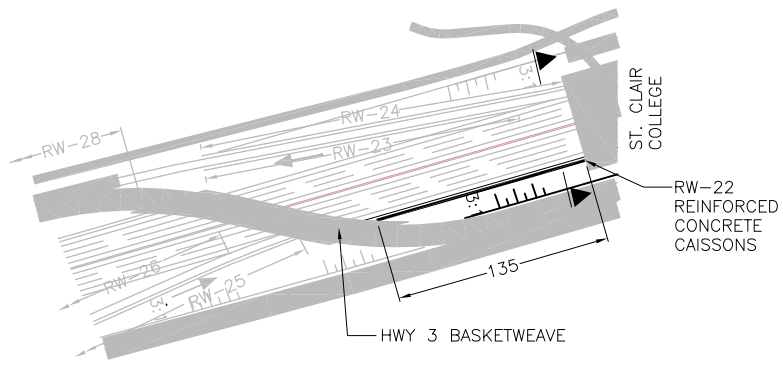


LENGTH (m)	390 NORTH SIDE		WIDTH (m)	----
STRUCTURAL DEPTH (m)	----		SPAN/DEPTH RATIO	----
SKEW ANGLE	----		VERTICAL CLEARANCE (m)	----
UNIT PRICE (\$/m)	NEW STRUCTURE	32,500	ESTIMATED COST (\$)	12,675,000
	REHABILITATION	----		
COMMENTS (SPECIAL CONSTRUCTION & DESIGN FEATURES)				
NAME OF CONSULTANT (FOR PLANNING)	URS CANADA INC.		DATE	FEBRUARY 2008

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STRUCTURAL PLANNING SHEET

W.O.NO.	----	CORRIDOR	HC-T	ROUTE	ALIGNMENT ALTERNATIVE "THE PARKWAY"
STRUCTURE I.D.	RW-22	SITE NO.	----	LOCATION	WEST OF ST. CLAIR COLLEGE
STRUCTURE NAME	BELOW GRADE HWY 401 WITH WB RAMP OF W-E BULLNOSE AT WEST OF ST. CLAIR COLLEGE			<input type="checkbox"/> EXISTING <input checked="" type="checkbox"/> NEW	<input type="checkbox"/> OVERPASS <input type="checkbox"/> UNDERPASS <input checked="" type="checkbox"/> BELOW GRADE HWY <input type="checkbox"/> APPROACH RAMP
STRUCTURE DESCRIPTION	CAISSON RETAINING WALL (TYPE "C") OF VARIABLE HEIGHT ON SOUTH SIDE				

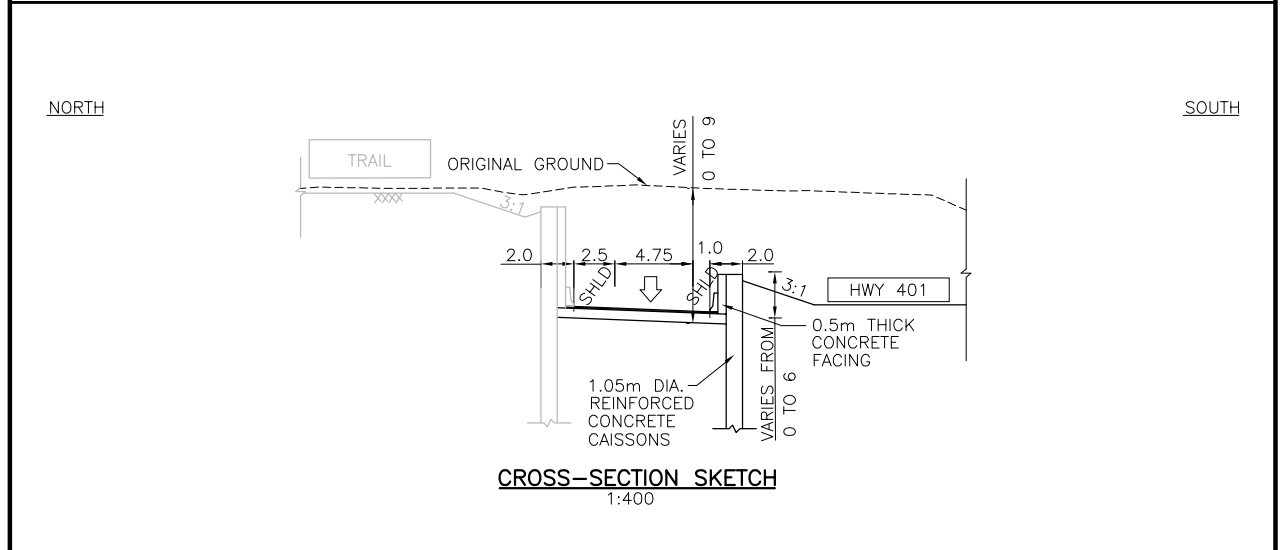
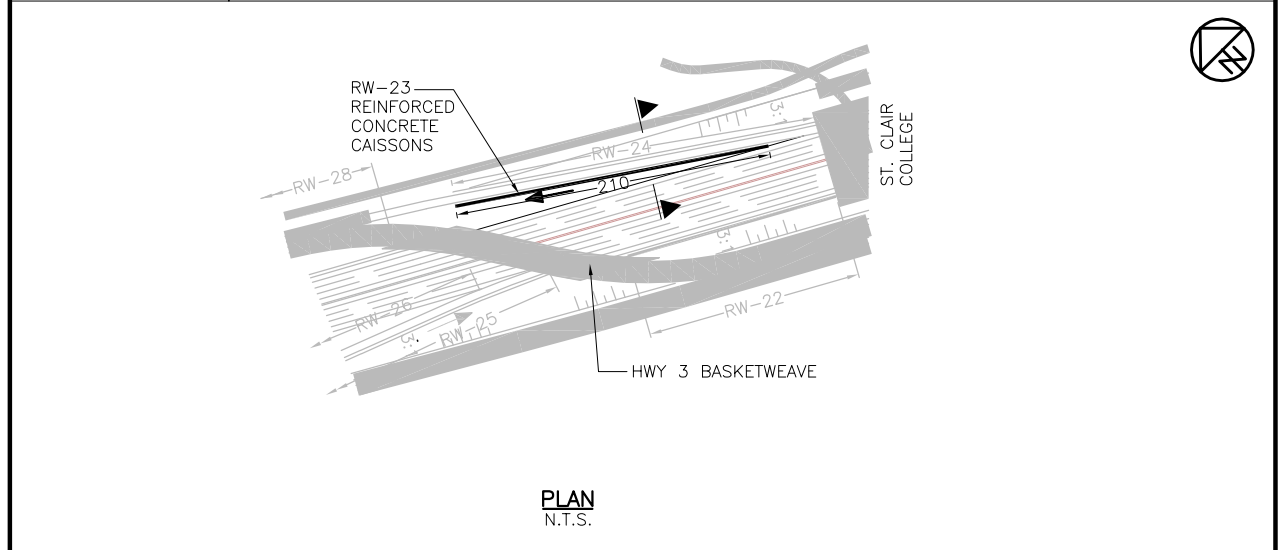


LENGTH (m)	135 SOUTH SIDE		WIDTH (m)	----
STRUCTURAL DEPTH (m)	----		SPAN/DEPTH RATIO	----
SKEW ANGLE	----		VERTICAL CLEARANCE (m)	----
UNIT PRICE (\$/m)	NEW STRUCTURE	32,500	ESTIMATED COST (\$)	4,387,500
	REHABILITATION	----		
COMMENTS (SPECIAL CONSTRUCTION & DESIGN FEATURES)				
NAME OF CONSULTANT (FOR PLANNING)	URS CANADA INC.		DATE	FEBRUARY 2008

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STRUCTURAL PLANNING SHEET

W.O.NO.	----	CORRIDOR	HC-T	ROUTE	ALIGNMENT ALTERNATIVE "THE PARKWAY"
STRUCTURE I.D.	RW-23	SITE NO.	----	LOCATION	WEST OF ST. CLAIR COLLEGE
STRUCTURE NAME	WB LANE RAMP AT WEST OF ST. CLAIR COLLEGE			<input type="checkbox"/> EXISTING <input checked="" type="checkbox"/> NEW	<input type="checkbox"/> OVERPASS <input type="checkbox"/> UNDERPASS
STRUCTURE DESCRIPTION	RETAINING WALL (TYPE "E") OF VARIABLE HEIGHT ON SOUTH SIDE				

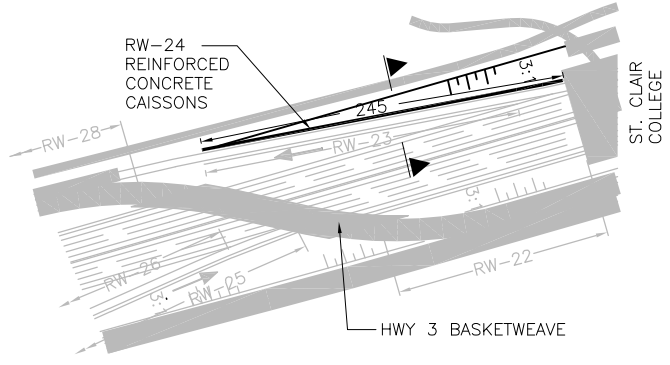


LENGTH (m)	210 SOUTH SIDE		WIDTH (m)	----
STRUCTURAL DEPTH (m)	----		SPAN/DEPTH RATIO	----
SKEW ANGLE	----		VERTICAL CLEARANCE (m)	----
UNIT PRICE (\$/m)	NEW STRUCTURE	18,000	ESTIMATED COST (\$)	3,780,000
	REHABILITATION	----		
COMMENTS (SPECIAL CONSTRUCTION & DESIGN FEATURES)	- HEIGHT OF CAISSON WALL MAY BE REDUCED AFTER DETAILED REVIEW AT NEXT STAGE OF DESIGN.			
NAME OF CONSULTANT (FOR PLANNING)	URS CANADA INC.		DATE	FEBRUARY 2008

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STRUCTURAL PLANNING SHEET

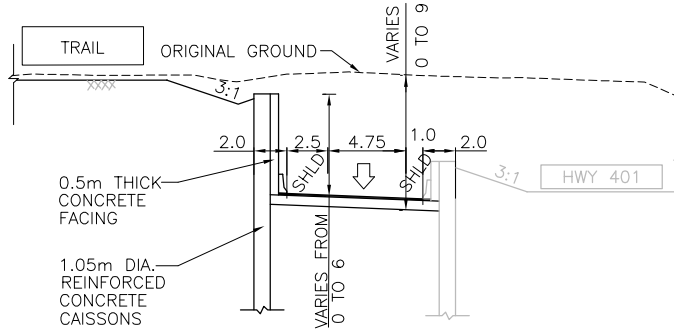
W.O.NO.	----	CORRIDOR	HC-T	ROUTE	ALIGNMENT ALTERNATIVE "THE PARKWAY"
STRUCTURE I.D.	RW-24	SITE NO.	----	LOCATION	WEST OF ST. CLAIR COLLEGE
STRUCTURE NAME	WB LANE RAMP AT WEST OF ST. CLAIR COLLEGE			<input type="checkbox"/> EXISTING <input checked="" type="checkbox"/> NEW	<input type="checkbox"/> OVERPASS <input type="checkbox"/> BELOW GRADE HWY <input type="checkbox"/> UNDERPASS <input checked="" type="checkbox"/> APPROACH RAMP
STRUCTURE DESCRIPTION	RETAINING WALL (TYPE "E") OF VARIABLE HEIGHT ON NORTH SIDE				



PLAN
N.T.S.

NORTH

SOUTH



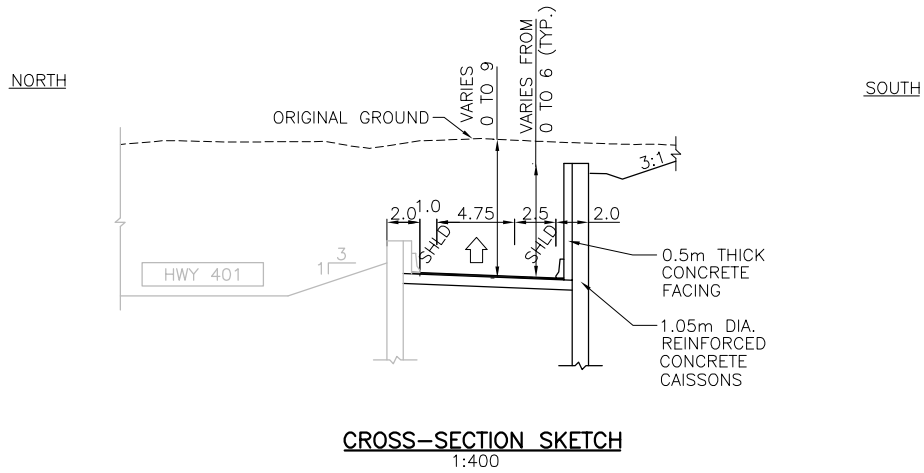
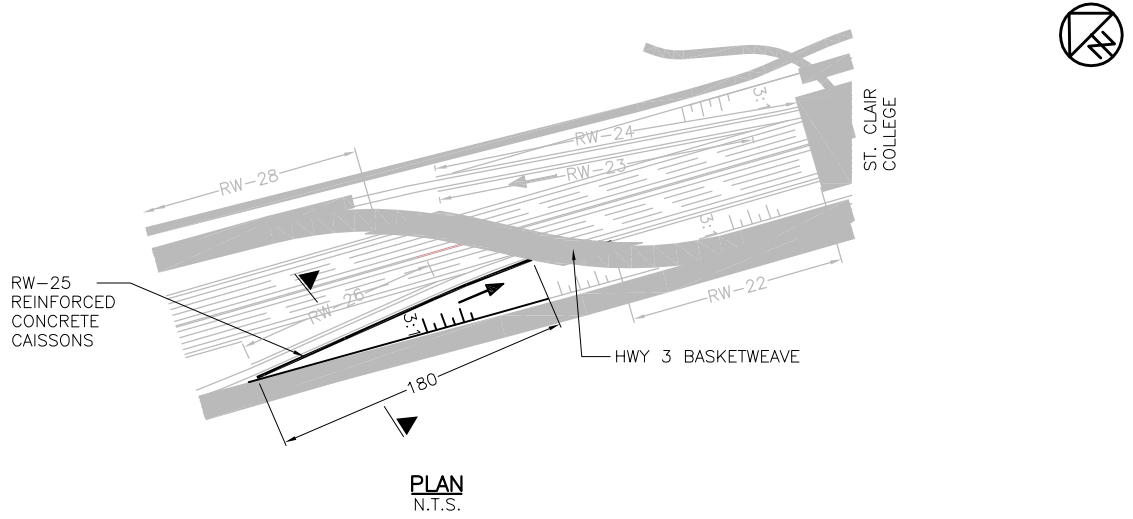
CROSS-SECTION SKETCH
1:400

LENGTH (m)	245 NORTH SIDE		WIDTH (m)	----
STRUCTURAL DEPTH (m)	----		SPAN/DEPTH RATIO	----
SKIEW ANGLE	----		VERTICAL CLEARANCE (m)	----
UNIT PRICE (\$/m)	NEW STRUCTURE	18,000	ESTIMATED COST (\$)	4,410,000
	REHABILITATION	----		
COMMENTS (SPECIAL CONSTRUCTION & DESIGN FEATURES)				
NAME OF CONSULTANT (FOR PLANNING)	URS CANADA INC.		DATE	FEBRUARY 2008

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STRUCTURAL PLANNING SHEET

W.O.NO.	----	CORRIDOR	HC-T	ROUTE	ALIGNMENT ALTERNATIVE "THE PARKWAY"
STRUCTURE I.D.	RW-25	SITE NO.	----	LOCATION	WEST OF CAHILL DRAIN CROSSING
STRUCTURE NAME	EB LANE RAMP AT WEST OF CAHILL DRAIN			<input type="checkbox"/> EXISTING <input checked="" type="checkbox"/> NEW	<input type="checkbox"/> OVERPASS <input type="checkbox"/> UNDERPASS <input type="checkbox"/> BELOW GRADE HWY <input checked="" type="checkbox"/> APPROACH RAMP
STRUCTURE DESCRIPTION	RETAINING WALL (TYPE "E") OF VARIABLE HEIGHT ON SOUTH SIDE				

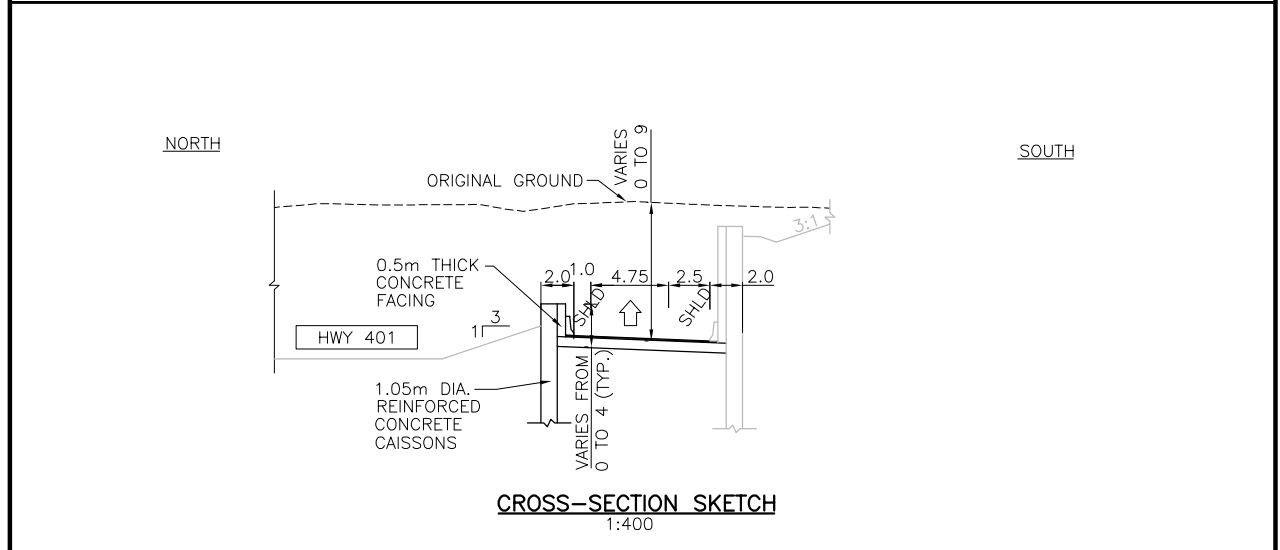
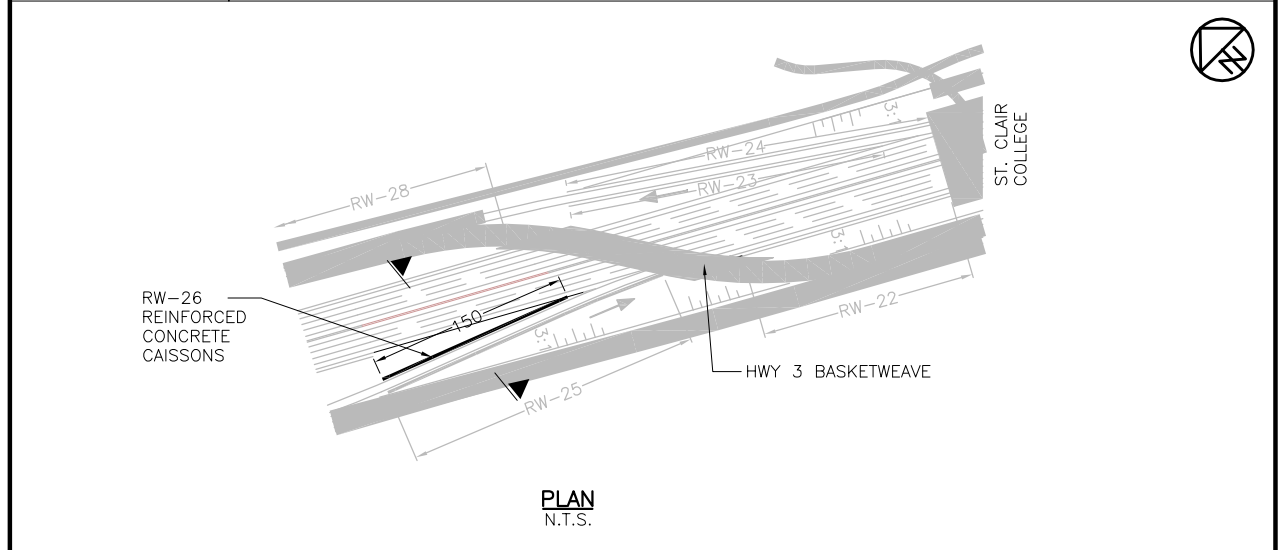


LENGTH (m)	180 SOUTH SIDE		WIDTH (m)	----
STRUCTURAL DEPTH (m)	----		SPAN/DEPTH RATIO	----
SKEW ANGLE	----		VERTICAL CLEARANCE (m)	----
UNIT PRICE (\$/m)	NEW STRUCTURE	18,000	ESTIMATED COST (\$)	3,240,000
	REHABILITATION	----		
COMMENTS (SPECIAL CONSTRUCTION & DESIGN FEATURES)	- HEIGHT OF CAISSON WALL MAY BE REDUCED AFTER DETAILED REVIEW AT NEXT STAGE OF DESIGN.			
NAME OF CONSULTANT (FOR PLANNING)	URS CANADA INC.		DATE	FEBRUARY 2008

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STRUCTURAL PLANNING SHEET

W.O.NO.	----	CORRIDOR	HC-T	ROUTE	ALIGNMENT ALTERNATIVE 'THE PARKWAY'
STRUCTURE I.D.	RW-26	SITE NO.	----	LOCATION	WEST OF CAHILL DRAIN CROSSING
STRUCTURE NAME	EB LANE RAMP AT WEST OF CAHILL DRAIN			<input type="checkbox"/> EXISTING <input checked="" type="checkbox"/> NEW	<input type="checkbox"/> OVERPASS <input type="checkbox"/> UNDERPASS
STRUCTURE DESCRIPTION	RETAINING WALL (TYPE "E") OF VARIABLE HEIGHT ON NORTH SIDE				

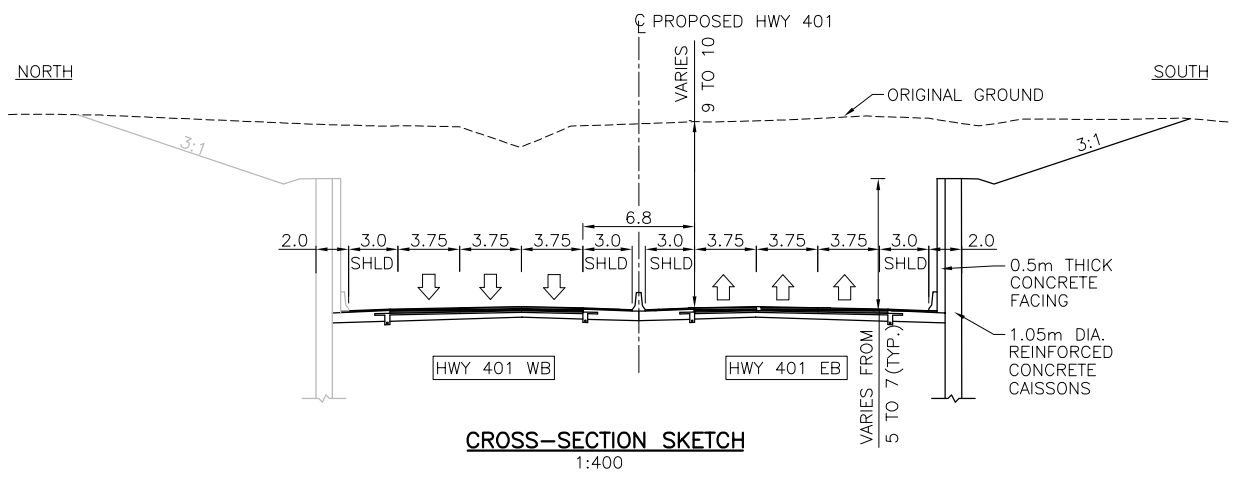
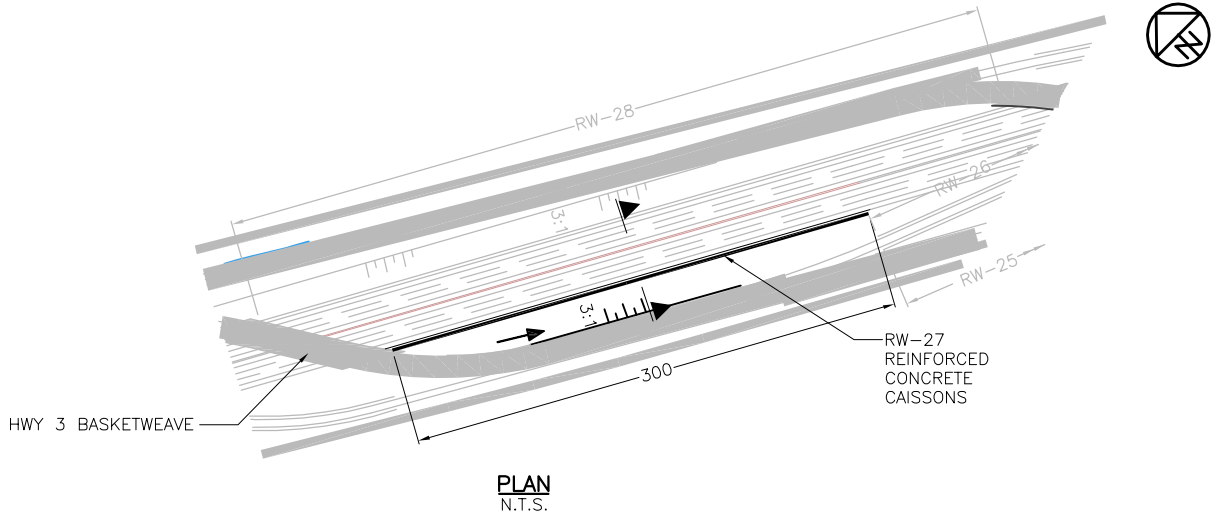


LENGTH (m)	150 NORTH SIDE		WIDTH (m)	----
STRUCTURAL DEPTH (m)	----		SPAN/DEPTH RATIO	----
SKEW ANGLE	----		VERTICAL CLEARANCE (m)	----
UNIT PRICE (\$/m)	NEW STRUCTURE	18,000	ESTIMATED COST (\$)	2,700,000
	REHABILITATION	----		
COMMENTS (SPECIAL CONSTRUCTION & DESIGN FEATURES)	- THIS STRUCTURE MAY BE DELETED AFTER DETAILED REVIEW AT NEXT STAGE OF DESIGN.			
NAME OF CONSULTANT (FOR PLANNING)	URS CANADA INC.		DATE	FEBRUARY 2008

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STRUCTURAL PLANNING SHEET

W.O.NO.	----	CORRIDOR	HC-T	ROUTE	ALIGNMENT ALTERNATIVE 'THE PARKWAY'
STRUCTURE I.D.	RW-27	SITE NO.	----	LOCATION	BETWEEN HURON CHURCH LINE AND CAHILL DRAIN CROSSING
STRUCTURE NAME	BELOW GRADE HWY 401 BETWEEN HURON CHURCH LINE AND CAHILL DRAIN CROSSING			<input type="checkbox"/> EXISTING <input checked="" type="checkbox"/> NEW	<input type="checkbox"/> OVERPASS <input type="checkbox"/> UNDERPASS <input checked="" type="checkbox"/> BELOW GRADE HWY <input type="checkbox"/> APPROACH RAMP
STRUCTURE DESCRIPTION	RETAINING WALL (TYPE "A") OF VARIABLE HEIGHT ON SOUTH SIDE				

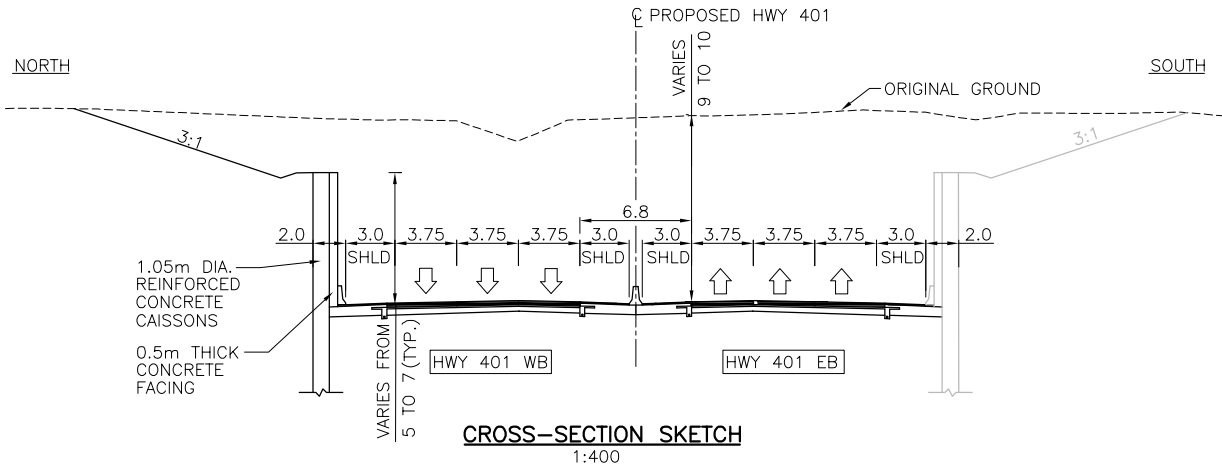
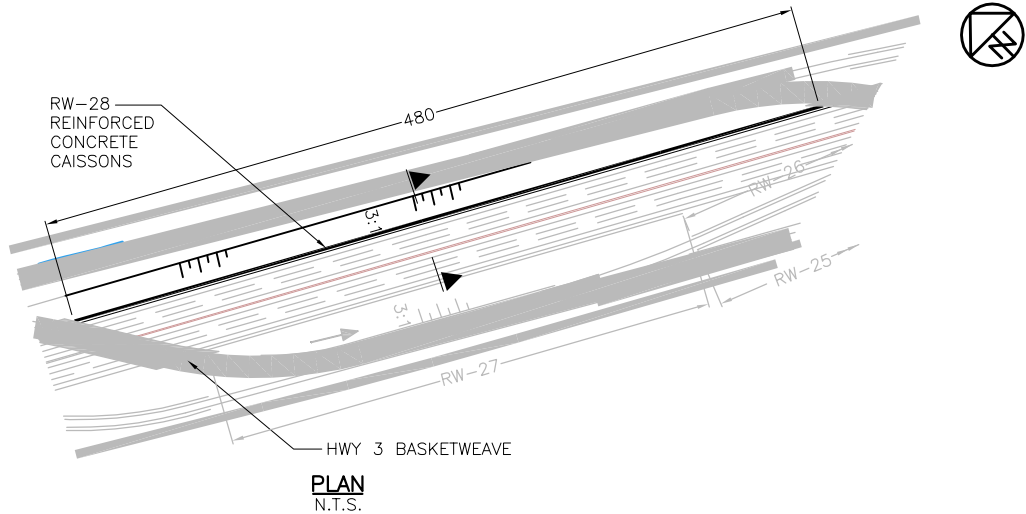


LENGTH (m)	300 SOUTH SIDE		WIDTH (m)	----
STRUCTURAL DEPTH (m)	----		SPAN/DEPTH RATIO	----
SKREW ANGLE	----		VERTICAL CLEARANCE (m)	----
UNIT PRICE (\$/m)	NEW STRUCTURE	31,000	ESTIMATED COST (\$)	9,300,000
	REHABILITATION	----		
COMMENTS (SPECIAL CONSTRUCTION & DESIGN FEATURES)				
NAME OF CONSULTANT (FOR PLANNING)	URS CANADA INC.		DATE	FEBRUARY 2008

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STRUCTURAL PLANNING SHEET

W.O.NO.	----	CORRIDOR	HC-T	ROUTE	ALIGNMENT ALTERNATIVE 'THE PARKWAY'
STRUCTURE I.D.	RW-28	SITE NO.	----	LOCATION	BETWEEN HURON CHURCH LINE AND CAHILL DRAIN CROSSING
STRUCTURE NAME	BELOW GRADE HWY 401 BETWEEN HURON CHURCH LINE AND CAHILL DRAIN CROSSING			<input type="checkbox"/> EXISTING <input checked="" type="checkbox"/> NEW	<input type="checkbox"/> OVERPASS <input type="checkbox"/> UNDERPASS <input checked="" type="checkbox"/> BELOW GRADE HWY <input type="checkbox"/> APPROACH RAMP
STRUCTURE DESCRIPTION	CAISSON RETAINING WALL (TYPE "A") OF VARIABLE HEIGHT ON NORTH SIDE				

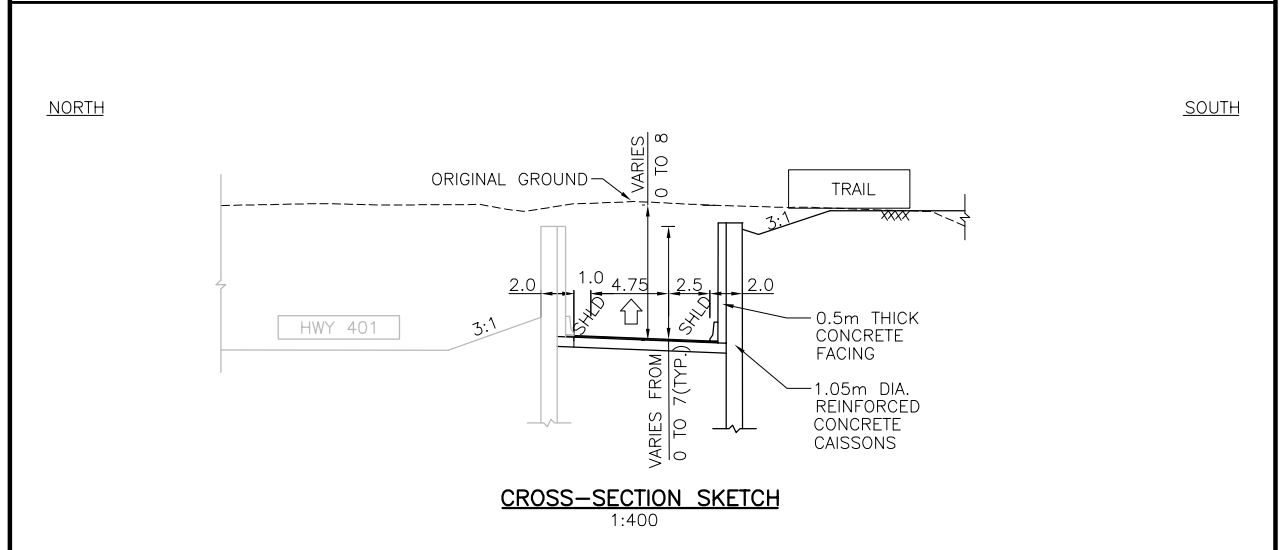
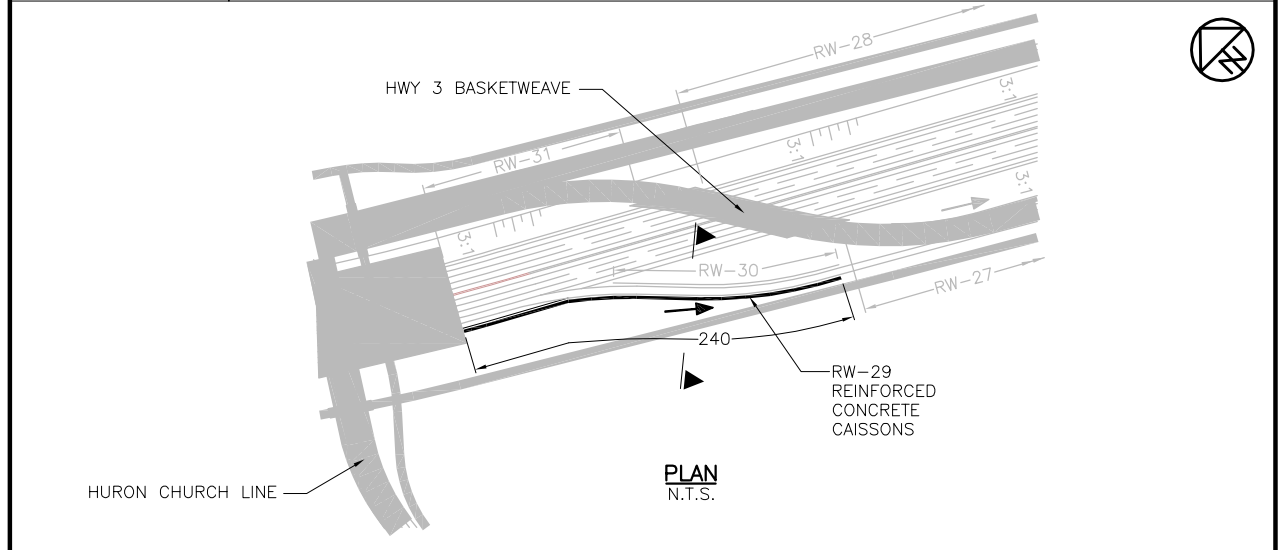


LENGTH (m)	480 NORTH SIDE		WIDTH (m)	----
STRUCTURAL DEPTH (m)	----		SPAN/DEPTH RATIO	----
SKREW ANGLE	----		VERTICAL CLEARANCE (m)	----
UNIT PRICE (\$/m)	NEW STRUCTURE	31,000	ESTIMATED COST (\$)	14,880,000
	REHABILITATION	----		
COMMENTS (SPECIAL CONSTRUCTION & DESIGN FEATURES)				
NAME OF CONSULTANT (FOR PLANNING)	URS CANADA INC.		DATE	FEBRUARY 2008

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STRUCTURAL PLANNING SHEET

W.O.NO.	----	CORRIDOR	HC-T	ROUTE	ALIGNMENT ALTERNATIVE 'THE PARKWAY'
STRUCTURE I.D.	RW-29	SITE NO.	----	LOCATION	EAST OF HURON CHURCH LINE
STRUCTURE NAME	EB LANE RAMP AT EAST OF HURON CHURCH LINE			<input type="checkbox"/> EXISTING <input checked="" type="checkbox"/> NEW	<input type="checkbox"/> OVERPASS <input type="checkbox"/> UNDERPASS <input type="checkbox"/> BELOW GRADE HWY <input checked="" type="checkbox"/> APPROACH RAMP
STRUCTURE DESCRIPTION	CAISSON WALL (TYPE "BS1") OF VARIABLE HEIGHT ON SOUTH SIDE				

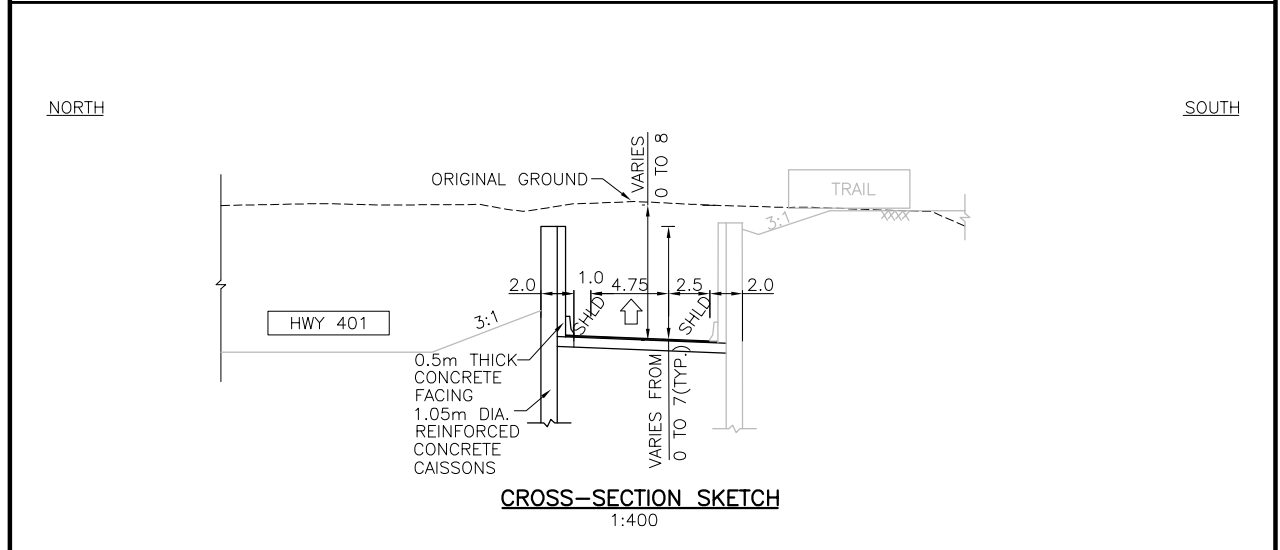
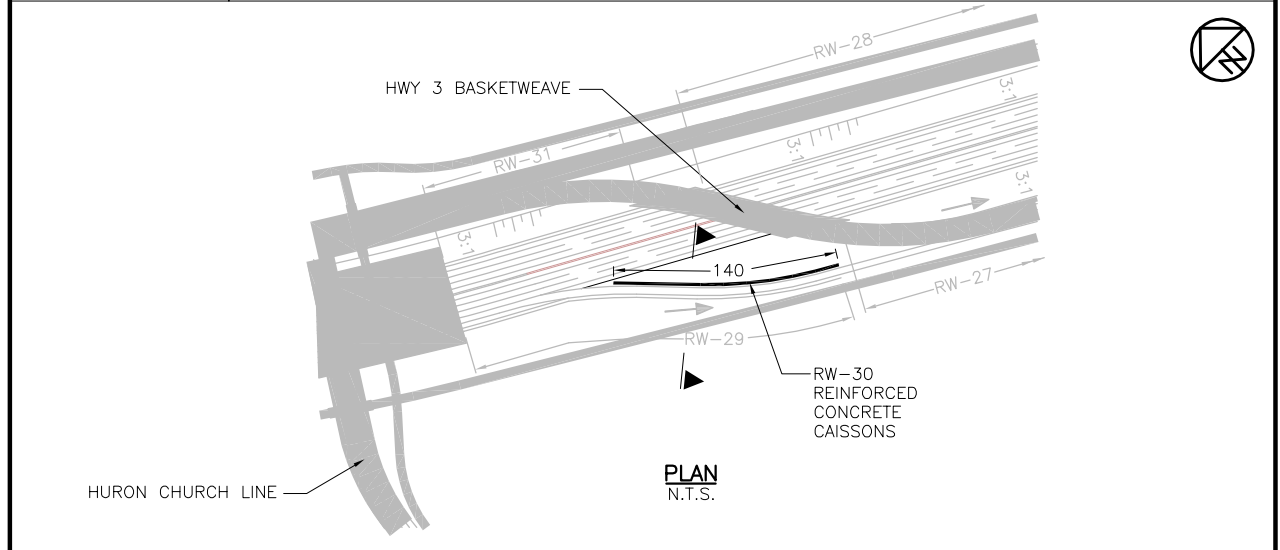


LENGTH (m)	240 SOUTH SIDE		WIDTH (m)	----
STRUCTURAL DEPTH (m)	----		SPAN/DEPTH RATIO	----
SKEW ANGLE	----		VERTICAL CLEARANCE (m)	----
UNIT PRICE (\$/m)	NEW STRUCTURE	15,000	ESTIMATED COST (\$)	3,600,000
	REHABILITATION	----		
COMMENTS (SPECIAL CONSTRUCTION & DESIGN FEATURES)				
NAME OF CONSULTANT (FOR PLANNING)	URS CANADA INC.		DATE	FEBRUARY 2008

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STRUCTURAL PLANNING SHEET

W.O.NO.	----	CORRIDOR	HC-T	ROUTE	ALIGNMENT ALTERNATIVE "THE PARKWAY"	
STRUCTURE I.D.	RW-30	SITE NO.	----	LOCATION	EAST OF HURON CHURCH LINE	
STRUCTURE NAME	EB LANE RAMP AT EAST OF HURON CHURCH LINE			<input type="checkbox"/> EXISTING <input checked="" type="checkbox"/> NEW	<input type="checkbox"/> OVERPASS <input type="checkbox"/> UNDERPASS	<input type="checkbox"/> BELOW GRADE HWY <input checked="" type="checkbox"/> APPROACH RAMP
STRUCTURE DESCRIPTION	CAISSON WALL (TYPE "BS1") OF VARIABLE HEIGHT ON NORTH SIDE					

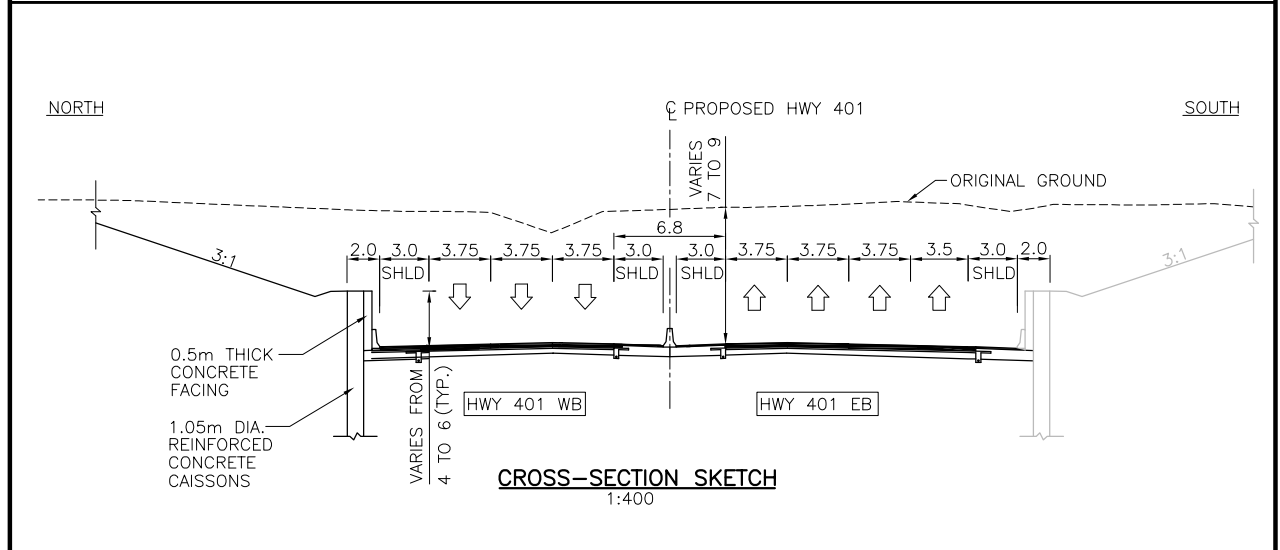
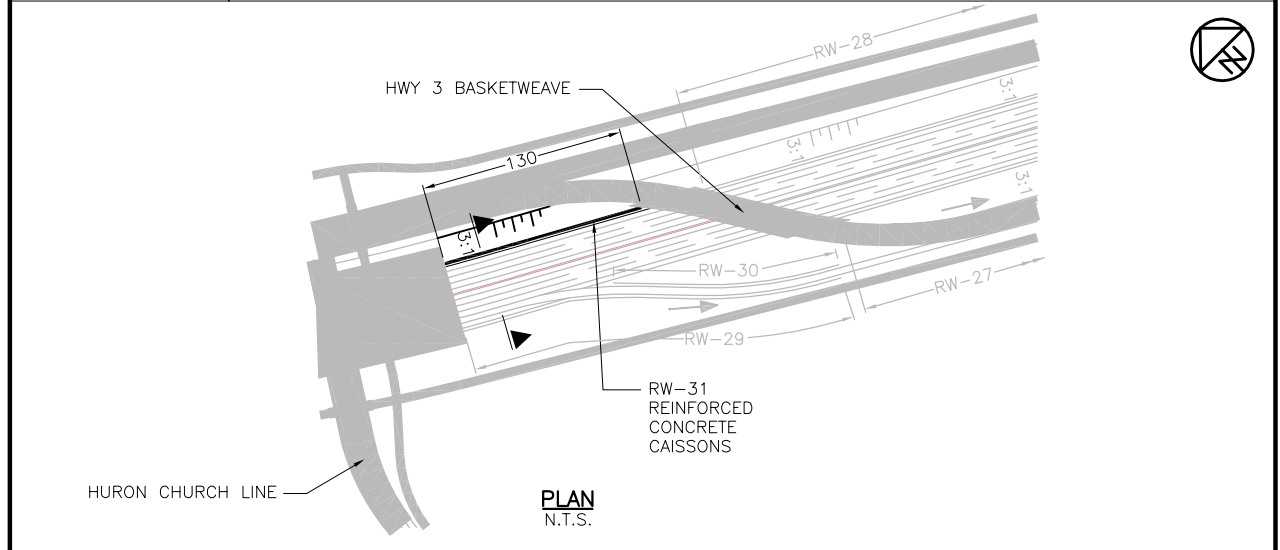


LENGTH (m)	140 NORTH SIDE		WIDTH (m)	----
STRUCTURAL DEPTH (m)	----		SPAN/DEPTH RATIO	----
SKIEW ANGLE	----		VERTICAL CLEARANCE (m)	----
UNIT PRICE (\$/m)	NEW STRUCTURE	15,000	ESTIMATED COST (\$)	2,100,000
	REHABILITATION	----		
COMMENTS (SPECIAL CONSTRUCTION & DESIGN FEATURES)				
NAME OF CONSULTANT (FOR PLANNING)	URS CANADA INC.		DATE	FEBRUARY 2008

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STRUCTURAL PLANNING SHEET

W.O.NO.	----	CORRIDOR	HC-T	ROUTE	ALIGNMENT ALTERNATIVE "THE PARKWAY"
STRUCTURE I.D.	RW-31	SITE NO.	----	LOCATION	EAST OF HURON CHURCH LINE
STRUCTURE NAME	BELOW GRADE HWY 401 AT WEST OF HURON CHURCH LINE			<input type="checkbox"/> EXISTING <input checked="" type="checkbox"/> NEW	<input type="checkbox"/> OVERPASS <input type="checkbox"/> UNDERPASS <input checked="" type="checkbox"/> BELOW GRADE HWY <input type="checkbox"/> APPROACH RAMP
STRUCTURE DESCRIPTION	CAISSON RETAINING WALL (TYPE "A") OF VARIABLE HEIGHT ON NORTH SIDE				

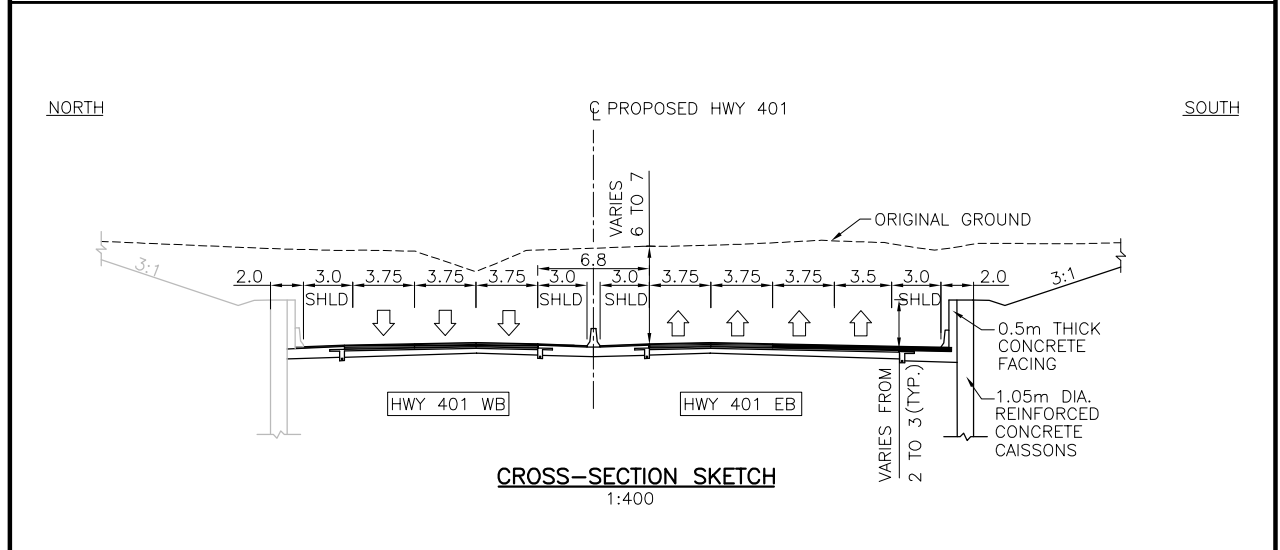
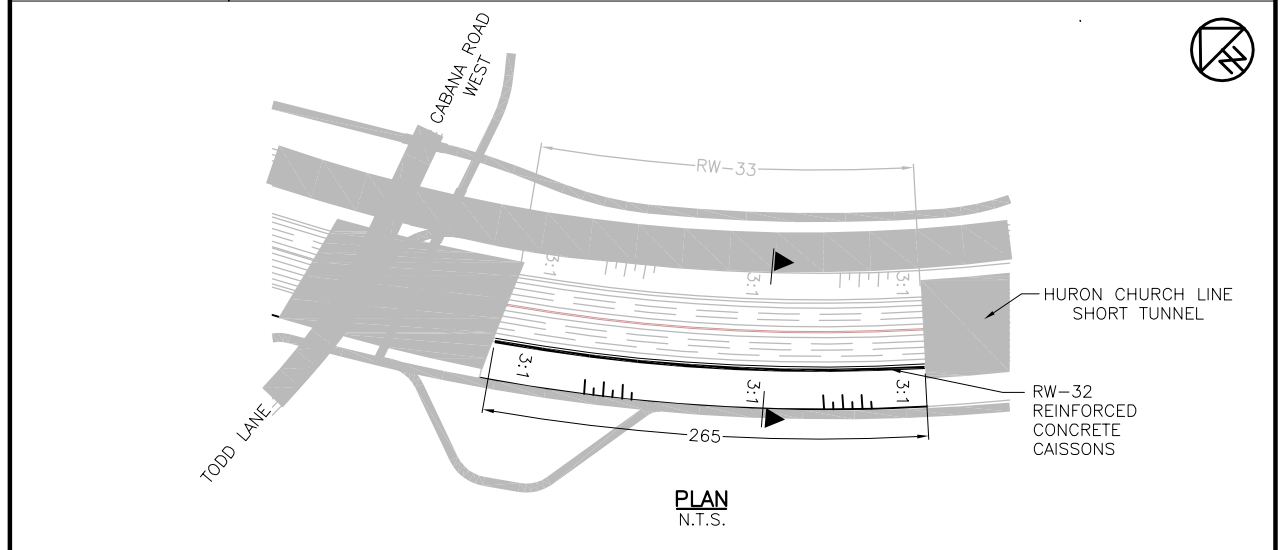


LENGTH (m)	130 NORTH SIDE		WIDTH (m)	----
STRUCTURAL DEPTH (m)	----		SPAN/DEPTH RATIO	----
SKEW ANGLE	----		VERTICAL CLEARANCE (m)	----
UNIT PRICE (\$/m)	NEW STRUCTURE	31,000	ESTIMATED COST (\$)	4,030,000
	REHABILITATION	----		
COMMENTS (SPECIAL CONSTRUCTION & DESIGN FEATURES)				
NAME OF CONSULTANT (FOR PLANNING)	URS CANADA INC.		DATE	FEBRUARY 2008

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STRUCTURAL PLANNING SHEET

W.O.NO.	----	CORRIDOR	HC-T	ROUTE	ALIGNMENT ALTERNATIVE "THE PARKWAY"
STRUCTURE I.D.	RW-32	SITE NO.	----	LOCATION	WEST OF HURON CHURCH LINE
STRUCTURE NAME	BELOW GRADE HWY 401 AT WEST OF HURON CHURCH LINE			<input type="checkbox"/> EXISTING <input checked="" type="checkbox"/> NEW	<input type="checkbox"/> OVERPASS <input type="checkbox"/> UNDERPASS <input checked="" type="checkbox"/> BELOW GRADE HWY <input type="checkbox"/> APPROACH RAMP
STRUCTURE DESCRIPTION	CAISSON RETAINING WALL (TYPE "A") OF VARIABLE HEIGHT ON SOUTH SIDE				

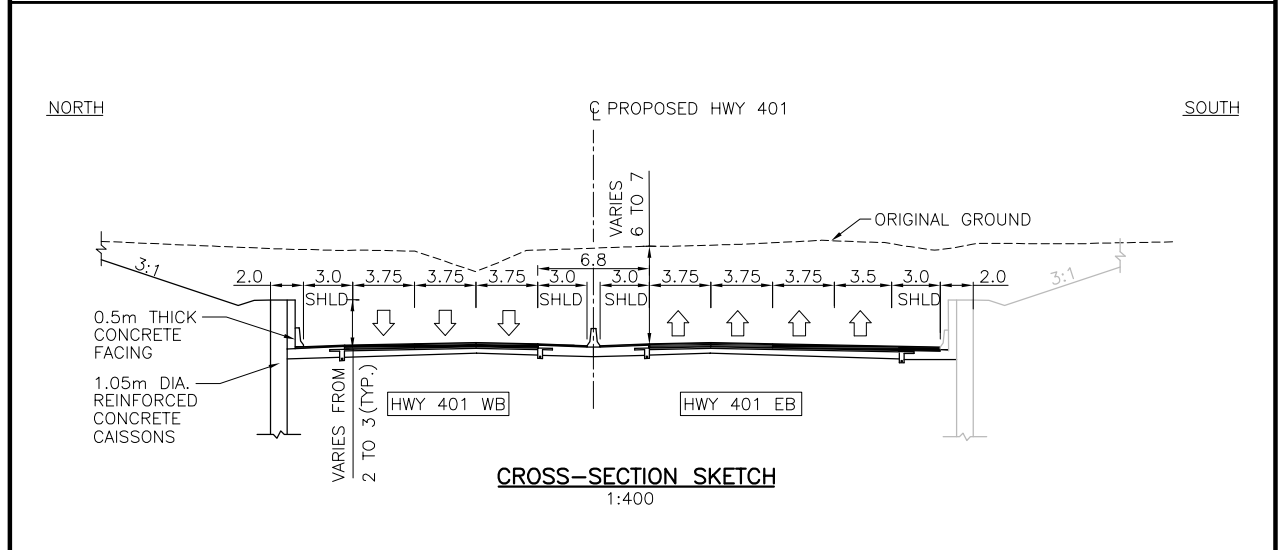
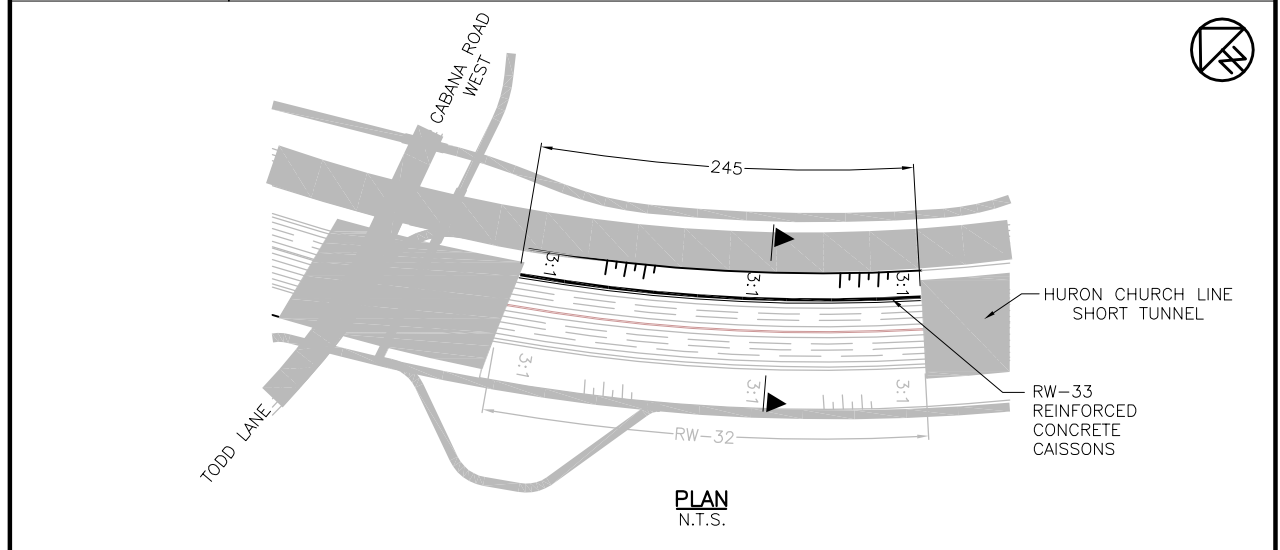


LENGTH (m)	265 SOUTH SIDE		WIDTH (m)	----
STRUCTURAL DEPTH (m)	----		SPAN/DEPTH RATIO	----
SKREW ANGLE	----		VERTICAL CLEARANCE (m)	----
UNIT PRICE (\$/m)	NEW STRUCTURE	31,000	ESTIMATED COST (\$)	8,215,000
	REHABILITATION	----		
COMMENTS (SPECIAL CONSTRUCTION & DESIGN FEATURES)				
NAME OF CONSULTANT (FOR PLANNING)	URS CANADA INC.		DATE	FEBRUARY 2008

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STRUCTURAL PLANNING SHEET

W.O.NO.	----	CORRIDOR	HC-T	ROUTE	ALIGNMENT ALTERNATIVE 'THE PARKWAY'
STRUCTURE I.D.	RW-33	SITE NO.	----	LOCATION	WEST OF HURON CHURCH LINE
STRUCTURE NAME	BELOW GRADE HWY 401 AT WEST OF HURON CHURCH LINE			<input type="checkbox"/> EXISTING <input checked="" type="checkbox"/> NEW	<input type="checkbox"/> OVERPASS <input type="checkbox"/> UNDERPASS <input checked="" type="checkbox"/> BELOW GRADE HWY <input type="checkbox"/> APPROACH RAMP
STRUCTURE DESCRIPTION	CAISSON RETAINING WALL (TYPE "B") OF VARIABLE HEIGHT ON NORTH SIDE				

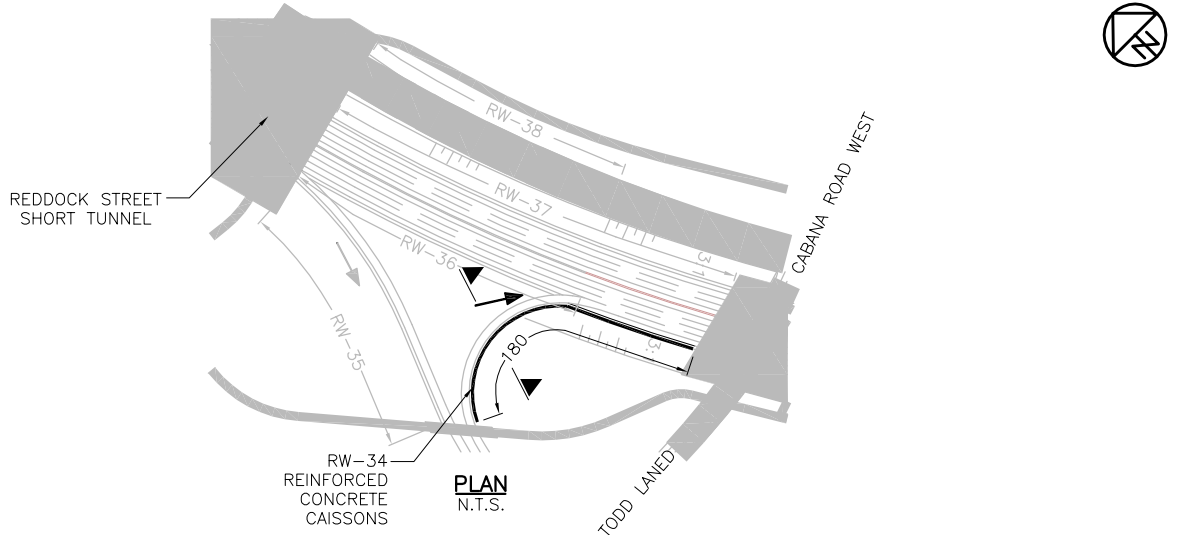


LENGTH (m)	245 NORTH SIDE		WIDTH (m)	----
STRUCTURAL DEPTH (m)	----		SPAN/DEPTH RATIO	----
SKREW ANGLE	----		VERTICAL CLEARANCE (m)	----
UNIT PRICE (\$/m)	NEW STRUCTURE	29,500	ESTIMATED COST (\$)	7,227,500
	REHABILITATION	----		
COMMENTS (SPECIAL CONSTRUCTION & DESIGN FEATURES)				
NAME OF CONSULTANT (FOR PLANNING)	URS CANADA INC.		DATE	FEBRUARY 2008

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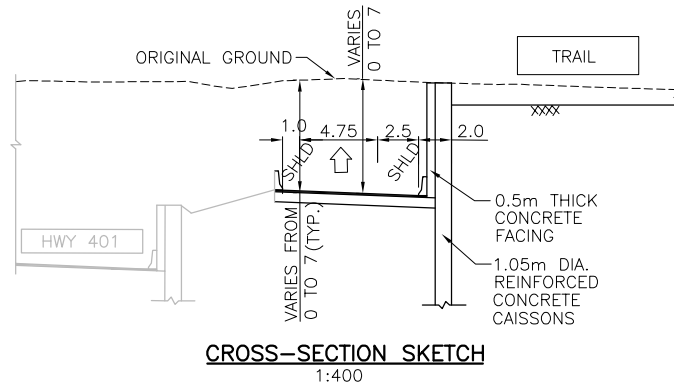
STRUCTURAL PLANNING SHEET

W.O.NO.	----	CORRIDOR	HC-T	ROUTE	ALIGNMENT ALTERNATIVE 'THE PARKWAY'	
STRUCTURE I.D.	RW-34	SITE NO.	----	LOCATION	BETWEEN REDDOCK STREET AND CABANA ROAD WEST	
STRUCTURE NAME	EB LANE RAMP FROM TODD LANE TO HWY 401 EB			<input type="checkbox"/> EXISTING <input checked="" type="checkbox"/> NEW	<input type="checkbox"/> OVERPASS <input type="checkbox"/> UNDERPASS	<input type="checkbox"/> BELOW GRADE HWY <input checked="" type="checkbox"/> APPROACH RAMP
STRUCTURE DESCRIPTION	CAISSON RETAINING WALLS (TYPE "BS1") OF VARIABLE HEIGHTS ON ONE SIDE					



NORTH

SOUTH

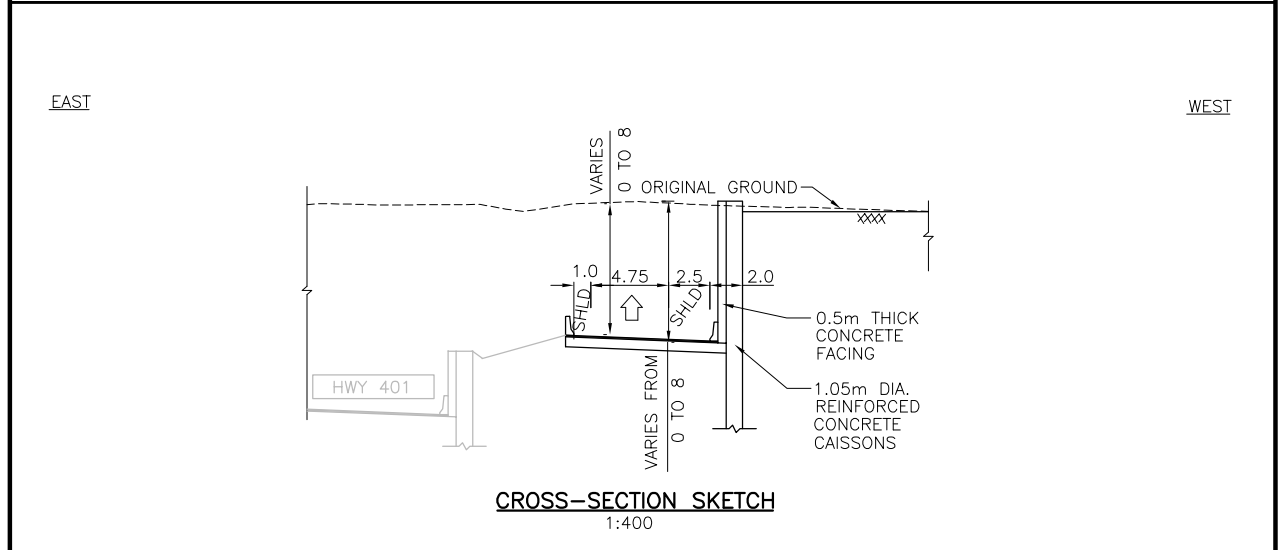
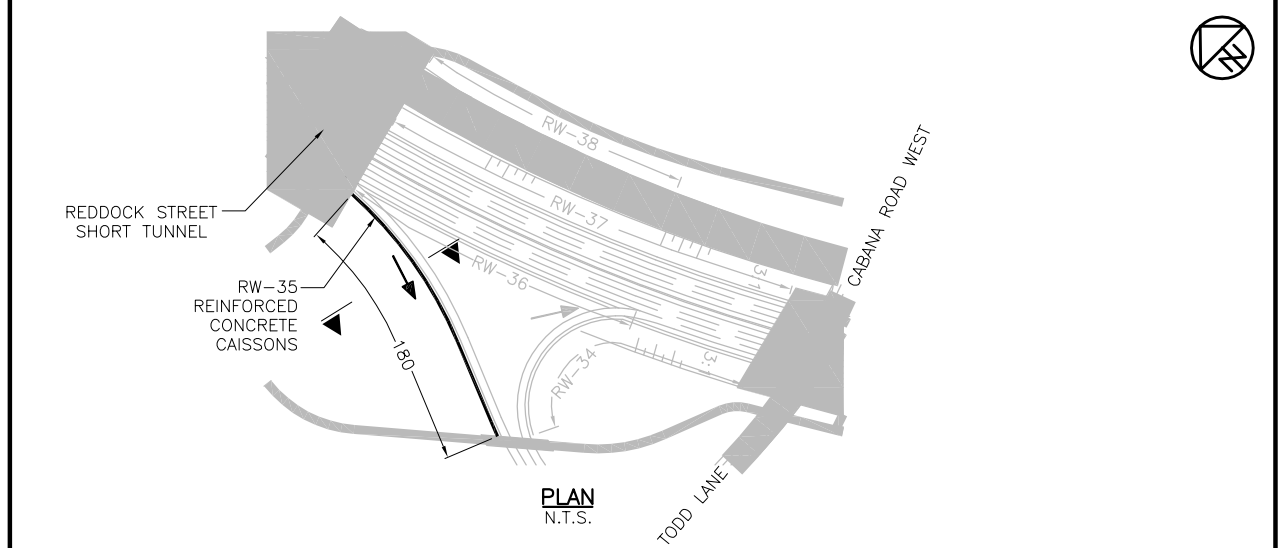


LENGTH (m)	180 SOUTH SIDE		WIDTH (m)	----
STRUCTURAL DEPTH (m)	----		SPAN/DEPTH RATIO	----
SKIEW ANGLE	----		VERTICAL CLEARANCE (m)	----
UNIT PRICE (\$/m)	NEW STRUCTURE	15,000	ESTIMATED COST (\$)	2,700,000
	REHABILITATION	----		
COMMENTS (SPECIAL CONSTRUCTION & DESIGN FEATURES)				
NAME OF CONSULTANT (FOR PLANNING)	URS CANADA INC.	DATE	FEBRUARY 2008	

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STRUCTURAL PLANNING SHEET

W.O.NO.	----	CORRIDOR	HC-T	ROUTE	ALIGNMENT ALTERNATIVE "THE PARKWAY"
STRUCTURE I.D.	RW-35	SITE NO.	----	LOCATION	BETWEEN REDDOCK STREET AND CABANA ROAD WEST
STRUCTURE NAME	EB LANE RAMP AT SOUTH OF REDDOCK STREET SHORT TUNNEL		<input type="checkbox"/> EXISTING <input checked="" type="checkbox"/> NEW	<input type="checkbox"/> OVERPASS <input type="checkbox"/> UNDERPASS	<input type="checkbox"/> BELOW GRADE HWY <input checked="" type="checkbox"/> APPROACH RAMP
STRUCTURE DESCRIPTION	CAISSON RETAINING WALL (TYPE "BS1") OF VARIABLE HEIGHT ON WEST SIDE				

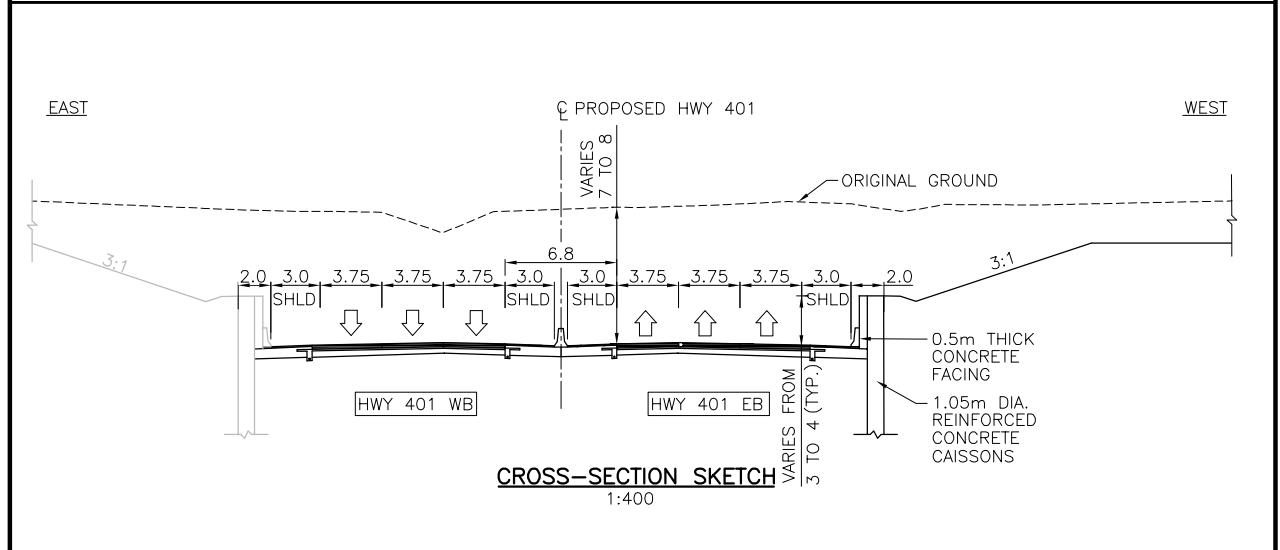
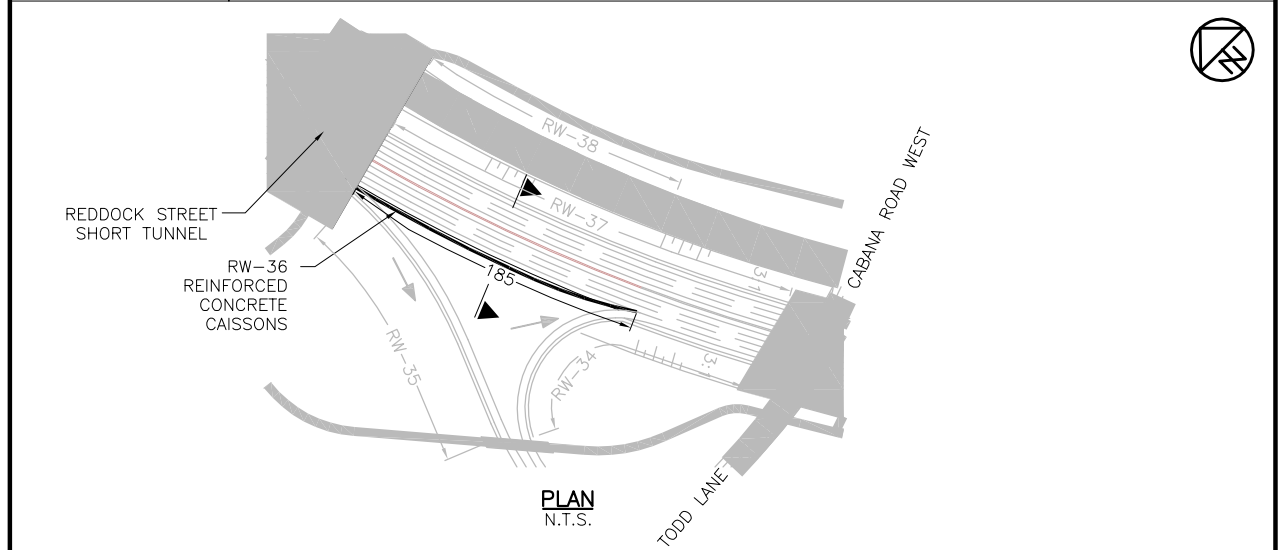


LENGTH (m)	180 WEST SIDE		WIDTH (m)	----
STRUCTURAL DEPTH (m)	----		SPAN/DEPTH RATIO	----
SKREW ANGLE	----		VERTICAL CLEARANCE (m)	----
UNIT PRICE (\$/m)	NEW STRUCTURE	15,000	ESTIMATED COST (\$)	2,700,000
	REHABILITATION	----		
COMMENTS (SPECIAL CONSTRUCTION & DESIGN FEATURES)				
NAME OF CONSULTANT (FOR PLANNING)	URS CANADA INC.		DATE	FEBRUARY 2008

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STRUCTURAL PLANNING SHEET

W.O.NO.	----	CORRIDOR	HC-T	ROUTE	ALIGNMENT ALTERNATIVE 'THE PARKWAY'
STRUCTURE I.D.	RW-36	SITE NO.	----	LOCATION	SOUTH OF REDDOCK STREET
STRUCTURE NAME	BELOW GRADE HWY 401 AT SOUTH OF REDDOCK STREET SHORT TUNNEL		<input type="checkbox"/> EXISTING <input checked="" type="checkbox"/> NEW	<input type="checkbox"/> OVERPASS <input type="checkbox"/> UNDERPASS	<input checked="" type="checkbox"/> BELOW GRADE HWY <input type="checkbox"/> APPROACH RAMP
STRUCTURE DESCRIPTION	CAISSON RETAINING WALL (TYPE "B") OF VARIABLE HEIGHT ON WEST SIDE				

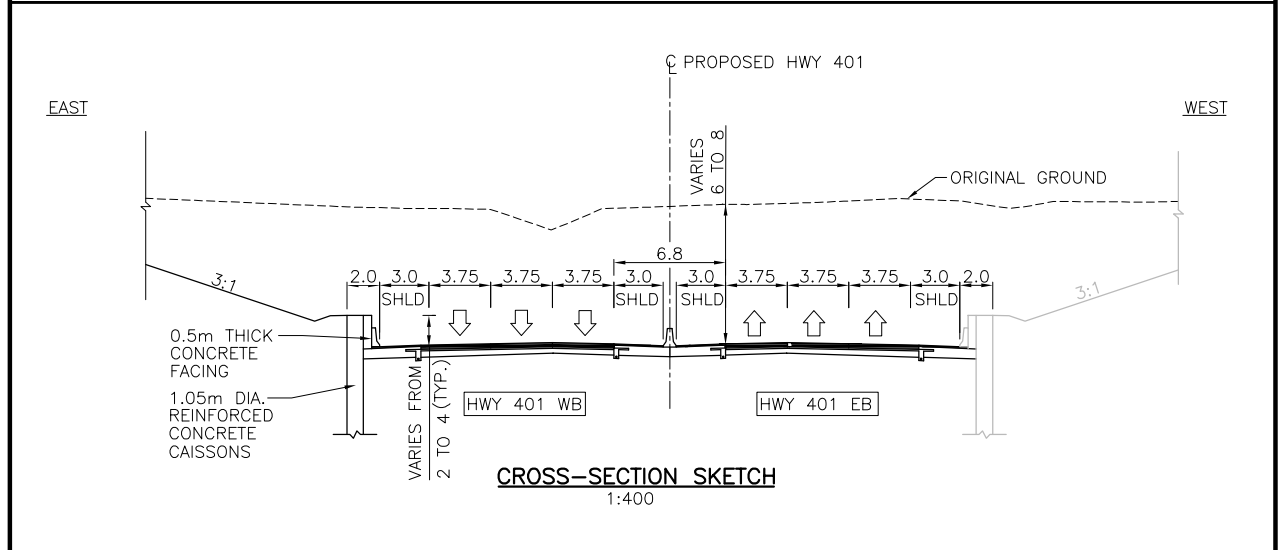
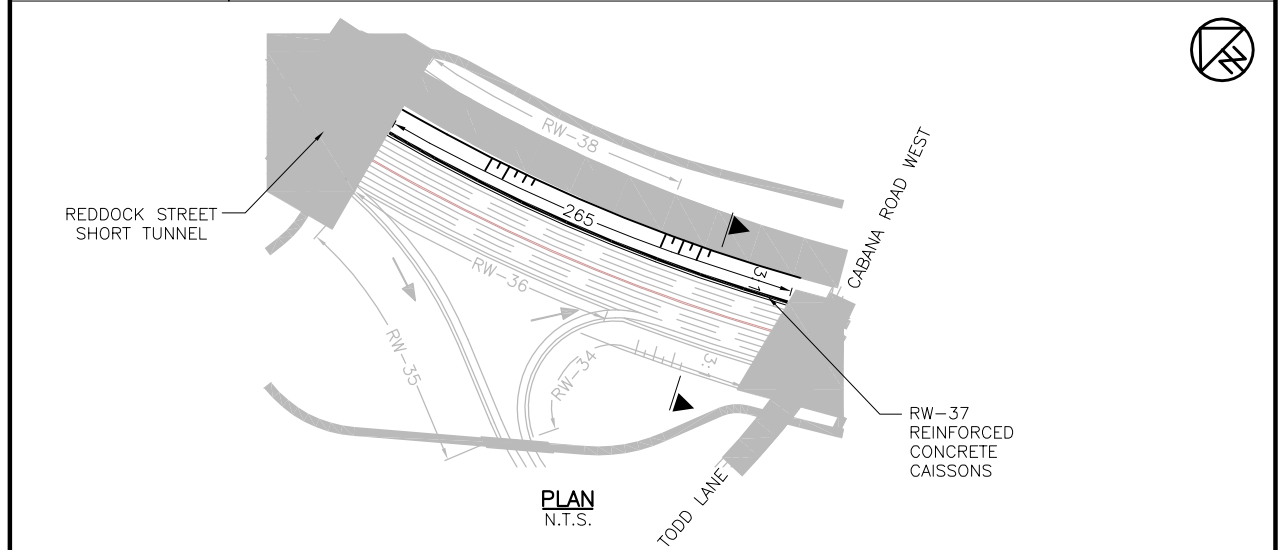


LENGTH (m)	185 WEST SIDE		WIDTH (m)	----
STRUCTURAL DEPTH (m)	----		SPAN/DEPTH RATIO	----
SKEW ANGLE	----		VERTICAL CLEARANCE (m)	----
UNIT PRICE (\$/m)	NEW STRUCTURE	29,500	ESTIMATED COST (\$)	5,457,500
	REHABILITATION	----		
COMMENTS (SPECIAL CONSTRUCTION & DESIGN FEATURES)				
NAME OF CONSULTANT (FOR PLANNING)	URS CANADA INC.		DATE	FEBRUARY 2008

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STRUCTURAL PLANNING SHEET

W.O.NO.	----	CORRIDOR	HC-T	ROUTE	ALIGNMENT ALTERNATIVE 'THE PARKWAY'
STRUCTURE I.D.	RW-37	SITE NO.	----	LOCATION	NORTH OF CABANA ROAD WEST
STRUCTURE NAME	BELOW GRADE HWY 401 AT NORTH OF CABANA ROAD WEST/TODD LANE			<input type="checkbox"/> EXISTING <input checked="" type="checkbox"/> NEW	<input type="checkbox"/> OVERPASS <input type="checkbox"/> UNDERPASS <input checked="" type="checkbox"/> BELOW GRADE HWY <input type="checkbox"/> APPROACH RAMP
STRUCTURE DESCRIPTION	CAISSON RETAINING WALL (TYPE "B") OF VARIABLE HEIGHT ON EAST SIDE				

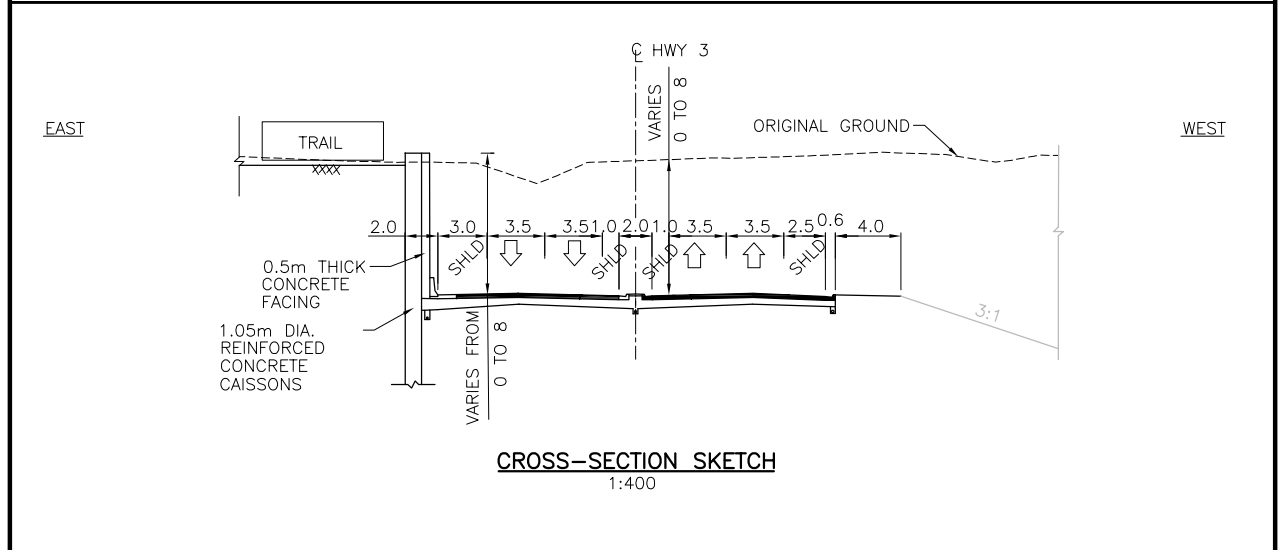
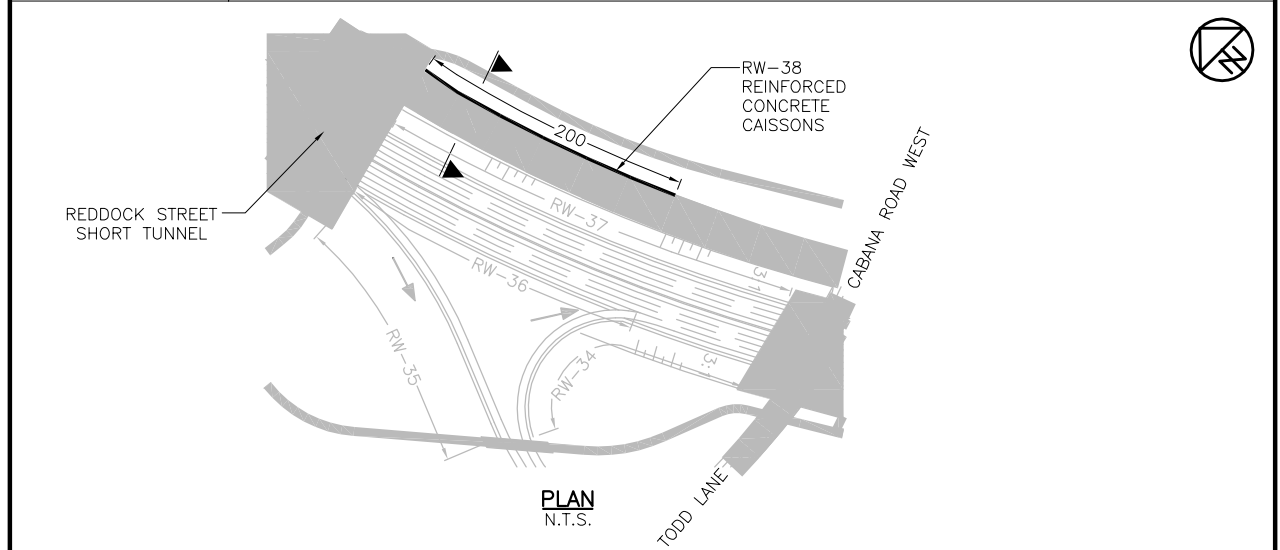


LENGTH (m)	265 EAST SIDE		WIDTH (m)	----	
STRUCTURAL DEPTH (m)	----		SPAN/DEPTH RATIO	----	
SKEW ANGLE	----		VERTICAL CLEARANCE (m)	----	
UNIT PRICE (\$/m)	NEW STRUCTURE	29,500	ESTIMATED COST (\$)	7,817,500	
	REHABILITATION	----			
COMMENTS (SPECIAL CONSTRUCTION & DESIGN FEATURES)					
NAME OF CONSULTANT (FOR PLANNING)	URS CANADA INC.		DATE	FEBRUARY 2008	

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STRUCTURAL PLANNING SHEET

W.O.NO.	----	CORRIDOR	HC-T	ROUTE	ALIGNMENT ALTERNATIVE 'THE PARKWAY'
STRUCTURE I.D.	RW-38	SITE NO.	----	LOCATION	SOUTH OF REDDOCK STREET
STRUCTURE NAME	RAMP OF HWY 3 AT SOUTH OF REDDOCK STREET SHORT TUNNEL		<input type="checkbox"/> EXISTING <input checked="" type="checkbox"/> NEW	<input type="checkbox"/> OVERPASS <input type="checkbox"/> UNDERPASS	<input checked="" type="checkbox"/> BELOW GRADE HWY <input type="checkbox"/> APPROACH RAMP
STRUCTURE DESCRIPTION	CAISSON RETAINING WALL (TYPE "BS1") OF VARIABLE HEIGHT ON EAST SIDE				

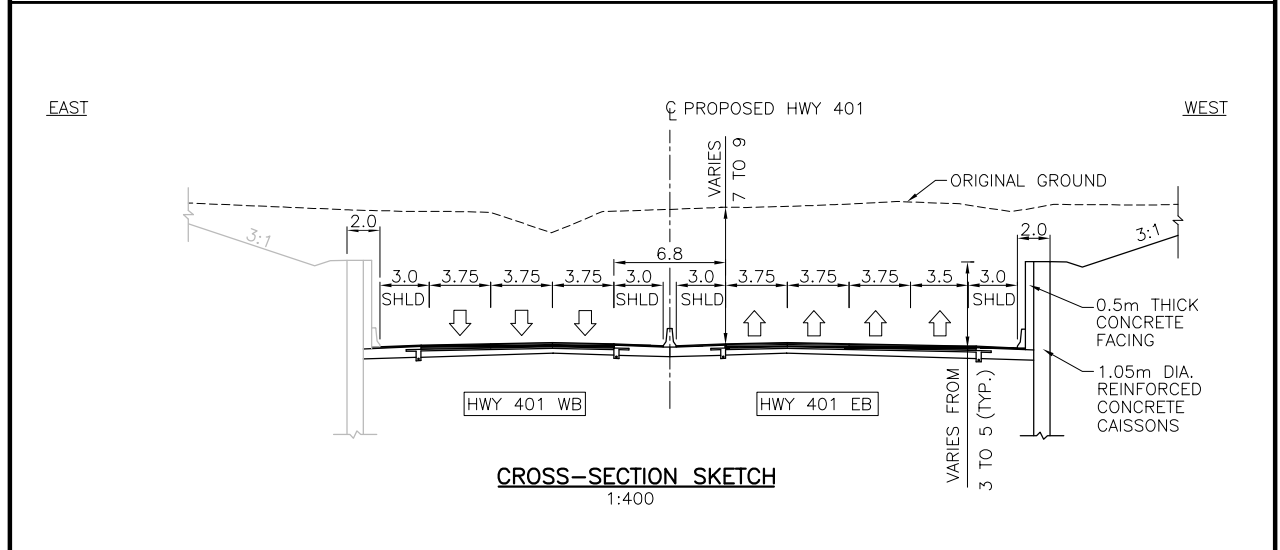
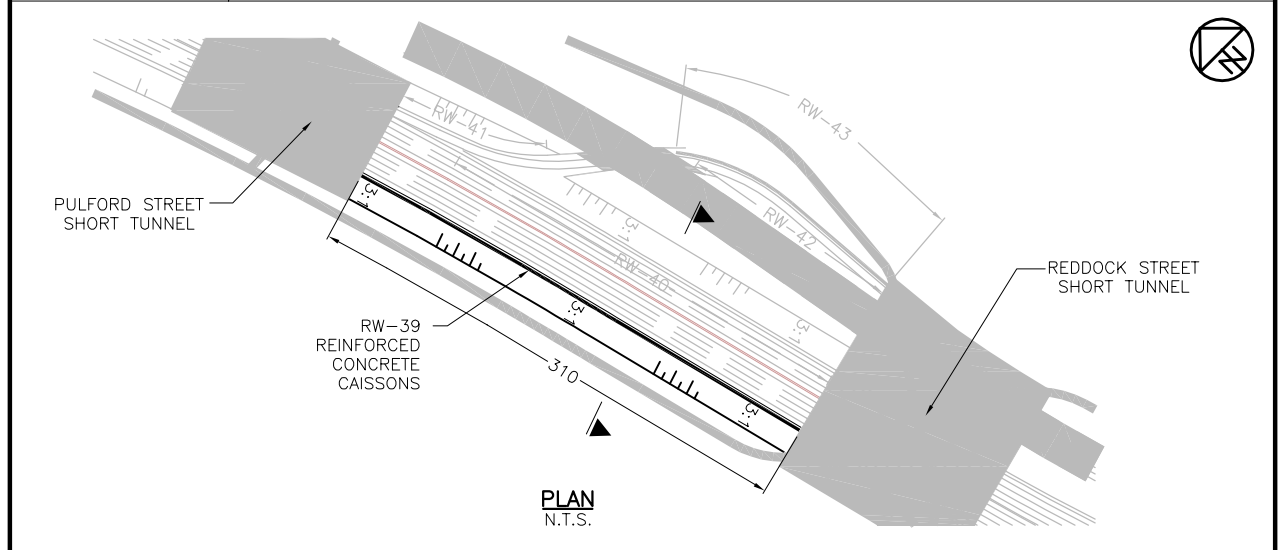


LENGTH (m)	200 EAST SIDE		WIDTH (m)	----
STRUCTURAL DEPTH (m)	----		SPAN/DEPTH RATIO	----
SKEW ANGLE	----		VERTICAL CLEARANCE (m)	----
UNIT PRICE (\$/m)	NEW STRUCTURE	15,000	ESTIMATED COST (\$)	3,000,000
	REHABILITATION	----		
COMMENTS (SPECIAL CONSTRUCTION & DESIGN FEATURES)				
NAME OF CONSULTANT (FOR PLANNING)	URS CANADA INC.		DATE	FEBRUARY 2008

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STRUCTURAL PLANNING SHEET

W.O.NO.	----	CORRIDOR	HC-T	ROUTE	ALIGNMENT ALTERNATIVE "THE PARKWAY"
STRUCTURE I.D.	RW-39	SITE NO.	----	LOCATION	NORTH OF REDDOCK STREET
STRUCTURE NAME	BELOW GRADE HWY 401 AT NORTH OF REDDOCK STREET SHORT TUNNEL		<input type="checkbox"/> EXISTING <input checked="" type="checkbox"/> NEW	<input type="checkbox"/> OVERPASS <input type="checkbox"/> UNDERPASS	<input checked="" type="checkbox"/> BELOW GRADE HWY <input type="checkbox"/> APPROACH RAMP
STRUCTURE DESCRIPTION	CAISSON RETAINING WALL (TYPE "B") OF VARIABLE HEIGHT ON WEST SIDE				

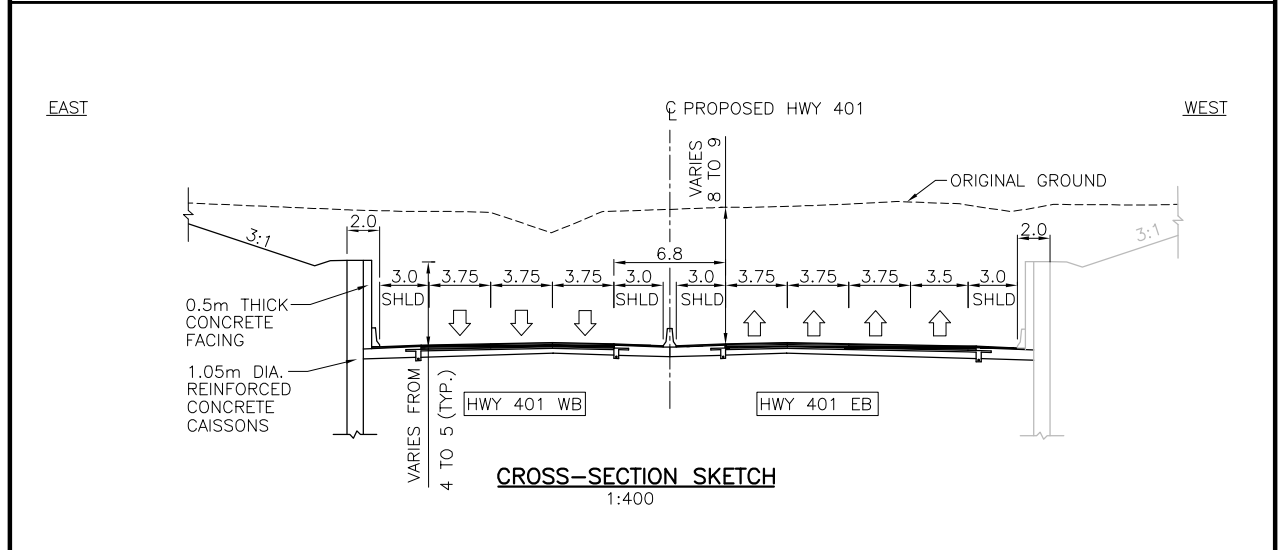
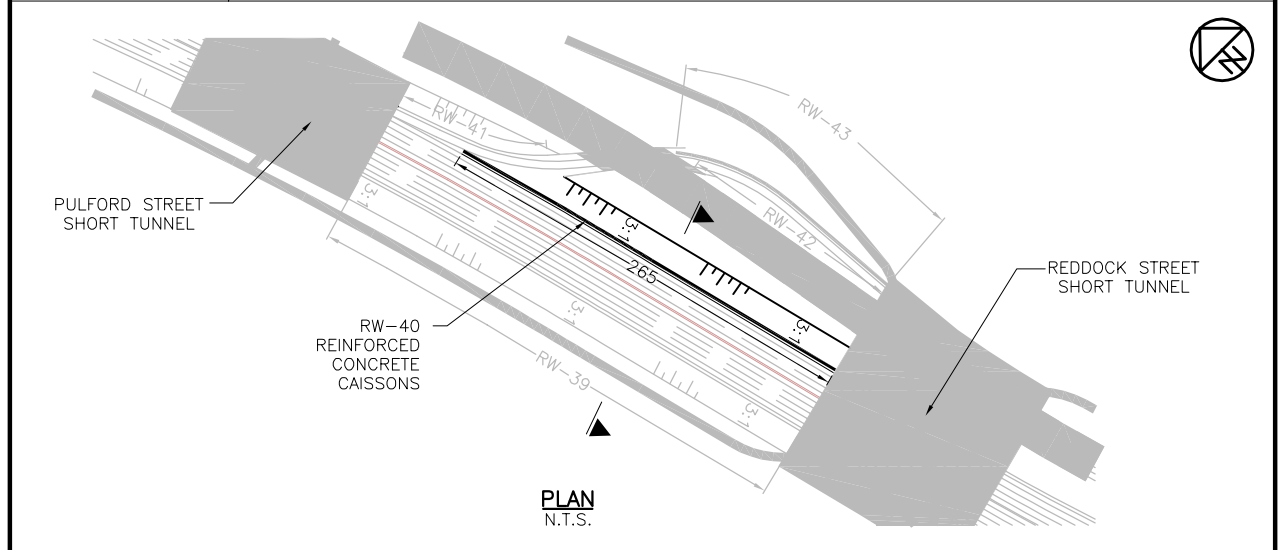


LENGTH (m)	310 WEST SIDE		WIDTH (m)	----
STRUCTURAL DEPTH (m)	----		SPAN/DEPTH RATIO	----
SKEW ANGLE	----		VERTICAL CLEARANCE (m)	----
UNIT PRICE (\$/m)	NEW STRUCTURE	29,500	ESTIMATED COST (\$)	9,145,000
	REHABILITATION	----		
COMMENTS (SPECIAL CONSTRUCTION & DESIGN FEATURES)	HEIGHT OF CAISSON WALL MAY BE REDUCED AFTER DETAILED REVIEW AT NEXT STAGE OF DESIGN.			
NAME OF CONSULTANT (FOR PLANNING)	URS CANADA INC.		DATE	FEBRUARY 2008

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STRUCTURAL PLANNING SHEET

W.O.NO.	----	CORRIDOR	HC-T	ROUTE	ALIGNMENT ALTERNATIVE 'THE PARKWAY'
STRUCTURE I.D.	RW-40	SITE NO.	----	LOCATION	NORTH OF REDDOCK STREET
STRUCTURE NAME	BELOW GRADE HWY 401 AT NORTH OF REDDOCK STREET SHORT TUNNEL			<input type="checkbox"/> EXISTING <input checked="" type="checkbox"/> NEW	<input type="checkbox"/> OVERPASS <input type="checkbox"/> UNDERPASS <input checked="" type="checkbox"/> BELOW GRADE HWY <input type="checkbox"/> APPROACH RAMP
STRUCTURE DESCRIPTION	CAISSON RETAINING WALL (TYPE "B") OF VARIABLE HEIGHT ON EAST SIDE				

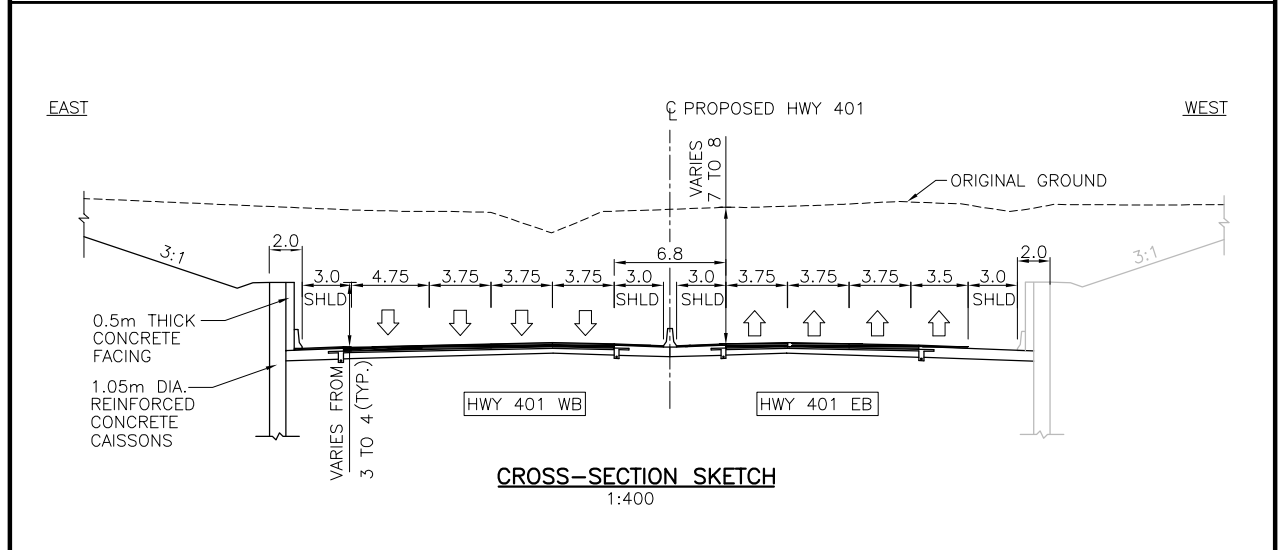
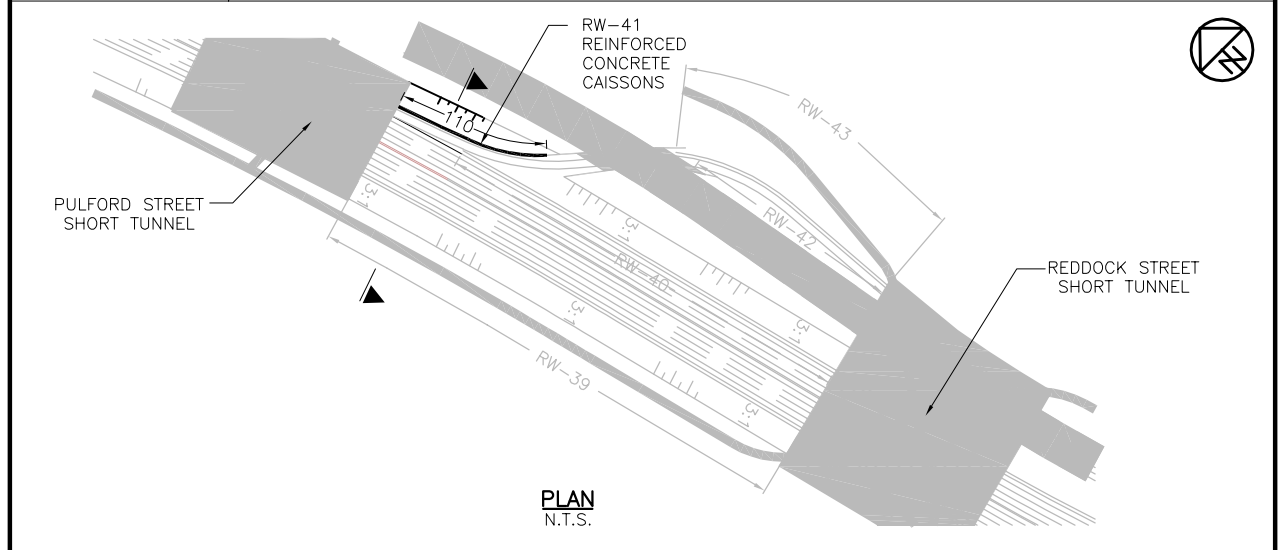


LENGTH (m)	265 EAST SIDE		WIDTH (m)	----
STRUCTURAL DEPTH (m)	----		SPAN/DEPTH RATIO	----
SKEW ANGLE	----		VERTICAL CLEARANCE (m)	----
UNIT PRICE (\$/m)	NEW STRUCTURE	29,500	ESTIMATED COST (\$)	7,817,500
	REHABILITATION	----		
COMMENTS (SPECIAL CONSTRUCTION & DESIGN FEATURES)	HEIGHT OF CAISSON WALL MAY BE REDUCED AFTER DETAILED REVIEW AT NEXT STAGE OF DESIGN.			
NAME OF CONSULTANT (FOR PLANNING)	URS CANADA INC.		DATE	FEBRUARY 2008

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STRUCTURAL PLANNING SHEET

W.O.NO.	----	CORRIDOR	HC-T	ROUTE	ALIGNMENT ALTERNATIVE "THE PARKWAY"
STRUCTURE I.D.	RW-41	SITE NO.	----	LOCATION	SOUTH OF PULFORD STREET
STRUCTURE NAME	BELOW GRADE HWY 401 WITH RAMP OF HWY 3 WB LANE AT SOUTH OF PULFORD STREET			<input type="checkbox"/> EXISTING <input checked="" type="checkbox"/> NEW	<input type="checkbox"/> OVERPASS <input type="checkbox"/> UNDERPASS <input checked="" type="checkbox"/> BELOW GRADE HWY <input type="checkbox"/> APPROACH RAMP
STRUCTURE DESCRIPTION	CAISSON RETAINING WALL (TYPE "B") OF VARIABLE HEIGHT ON EAST SIDE				

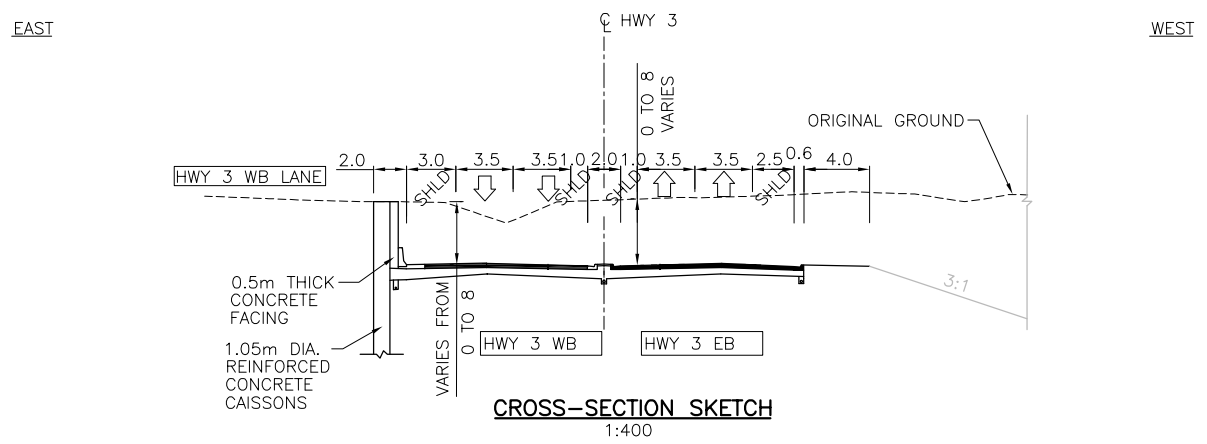
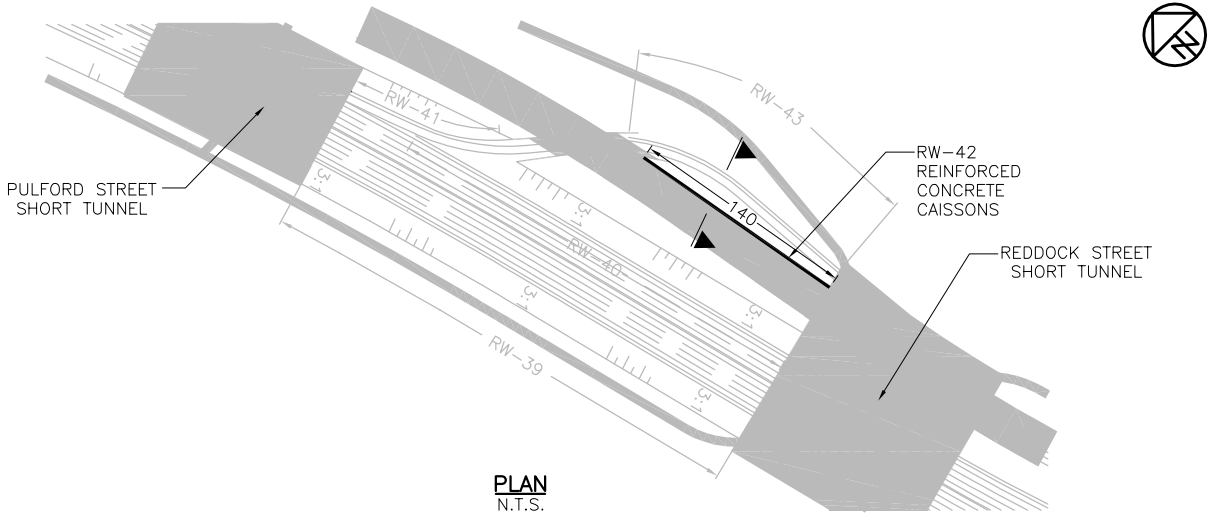


LENGTH (m)	110 EAST SIDE		WIDTH (m)	----
STRUCTURAL DEPTH (m)	----		SPAN/DEPTH RATIO	----
SKEW ANGLE	----		VERTICAL CLEARANCE (m)	----
UNIT PRICE (\$/m)	NEW STRUCTURE	29,500	ESTIMATED COST (\$)	3,245,000
	REHABILITATION	----		
COMMENTS (SPECIAL CONSTRUCTION & DESIGN FEATURES)	HEIGHT OF CAISSON WALL MAY BE REDUCED AFTER DETAILED REVIEW AT NEXT STAGE OF DESIGN.			
NAME OF CONSULTANT (FOR PLANNING)	URS CANADA INC.		DATE	FEBRUARY 2008

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STRUCTURAL PLANNING SHEET

W.O.NO.	----	CORRIDOR	HC-T	ROUTE	ALIGNMENT ALTERNATIVE "THE PARKWAY"
STRUCTURE I.D.	RW-42	SITE NO.	----	LOCATION	NORTH OF REDDOCK STREET
STRUCTURE NAME	RAMP OF HWY 3 AT NORTH OF REDDOCK STREET SHORT TUNNEL		<input type="checkbox"/> EXISTING <input checked="" type="checkbox"/> NEW	<input type="checkbox"/> OVERPASS <input type="checkbox"/> UNDERPASS	<input checked="" type="checkbox"/> BELOW GRADE HWY <input type="checkbox"/> APPROACH RAMP
STRUCTURE DESCRIPTION	CAISSON RETAINING WALL (TYPE "BS1") OF VARIABLE HEIGHT ON EAST SIDE				

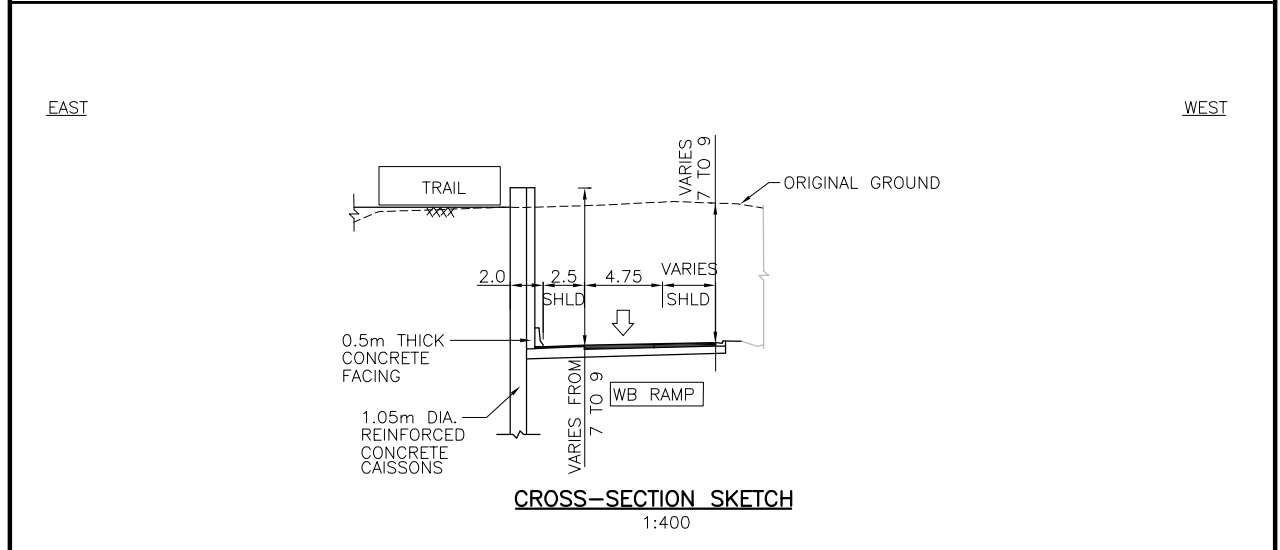
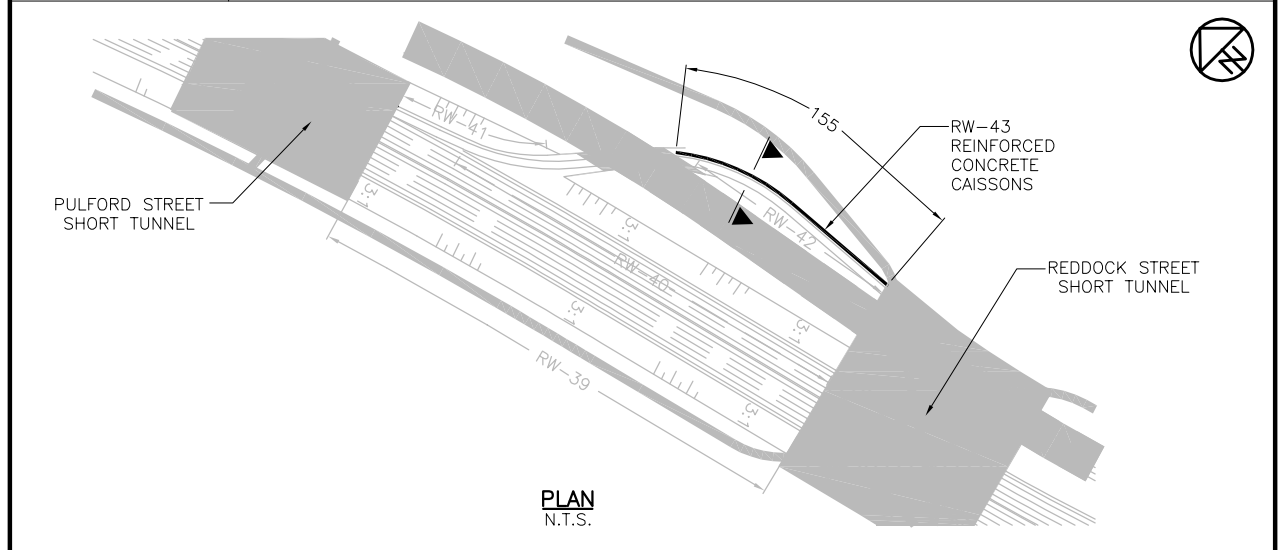


LENGTH (m)	140 EAST SIDE		WIDTH (m)	----
STRUCTURAL DEPTH (m)	----		SPAN/DEPTH RATIO	----
SKREW ANGLE	----		VERTICAL CLEARANCE (m)	----
UNIT PRICE (\$/m)	NEW STRUCTURE	15,000	ESTIMATED COST (\$)	2,100,000
	REHABILITATION	----		
COMMENTS (SPECIAL CONSTRUCTION & DESIGN FEATURES)				
NAME OF CONSULTANT (FOR PLANNING)	URS CANADA INC.		DATE	FEBRUARY 2008

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 PLOTDATE: Mar 17, 2008 3:47pm

STRUCTURAL PLANNING SHEET

W.O.NO.	----	CORRIDOR	HC-T	ROUTE	ALIGNMENT ALTERNATIVE 'THE PARKWAY'
STRUCTURE I.D.	RW-43	SITE NO.	----	LOCATION	NORTH OF REDDOCK STREET
STRUCTURE NAME	RAMP OF WB LANE OF HWY 3 AT NORTH OF REDDOCK STREET SHORT TUNNEL			<input type="checkbox"/> EXISTING <input checked="" type="checkbox"/> NEW	<input type="checkbox"/> OVERPASS <input type="checkbox"/> UNDERPASS <input checked="" type="checkbox"/> BELOW GRADE HWY <input type="checkbox"/> APPROACH RAMP
STRUCTURE DESCRIPTION	CAISSON RETAINING WALL (TYPE "B") OF VARIABLE HEIGHT ON EAST SIDE				

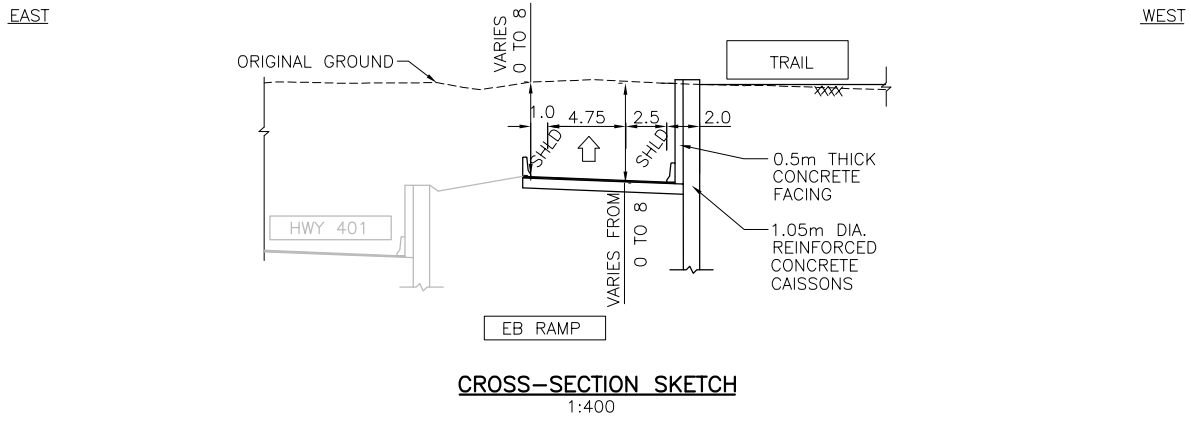
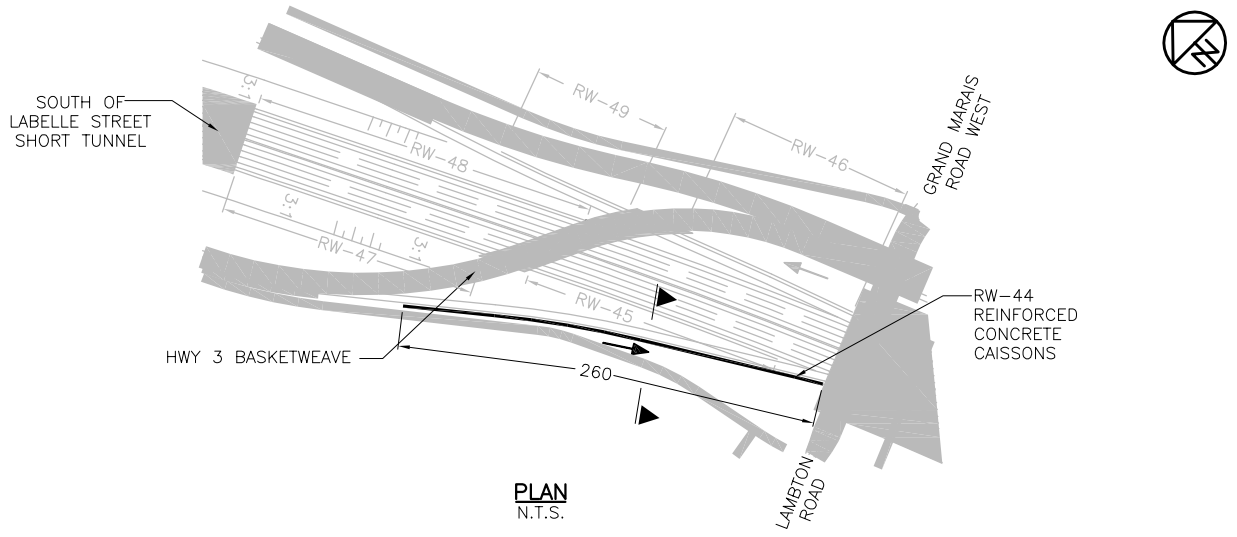


LENGTH (m)	155 NORTH SIDE		WIDTH (m)	----
STRUCTURAL DEPTH (m)	----		SPAN/DEPTH RATIO	----
SKEW ANGLE	----		VERTICAL CLEARANCE (m)	----
UNIT PRICE (\$/m)	NEW STRUCTURE	29,500	ESTIMATED COST (\$)	4,572,500
	REHABILITATION	----		
COMMENTS (SPECIAL CONSTRUCTION & DESIGN FEATURES)				
NAME OF CONSULTANT (FOR PLANNING)	URS CANADA INC.		DATE	FEBRUARY 2008

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 PLOTDATE: Mar 17, 2008 3:49pm

STRUCTURAL PLANNING SHEET

W.O.NO.	----	CORRIDOR	HC-T	ROUTE	ALIGNMENT ALTERNATIVE 'THE PARKWAY'
STRUCTURE I.D.	RW-44	SITE NO.	----	LOCATION	NORTH OF GRAND MARAIS ROAD WEST
STRUCTURE NAME	EB LANE RAMP AT NORTH OF GRAND MARAIS ROAD WEST			<input type="checkbox"/> EXISTING <input checked="" type="checkbox"/> NEW	<input type="checkbox"/> OVERPASS <input type="checkbox"/> UNDERPASS <input type="checkbox"/> BELOW GRADE HWY <input checked="" type="checkbox"/> APPROACH RAMP
STRUCTURE DESCRIPTION	CAISSON RETAINING WALL (TYPE "BS1") OF VARIABLE HEIGHT ON WEST SIDE				

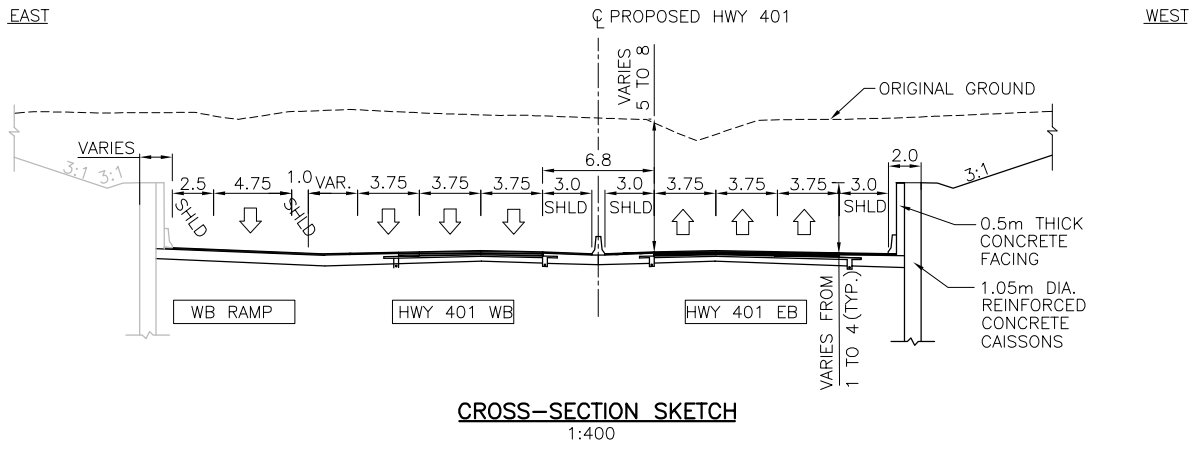
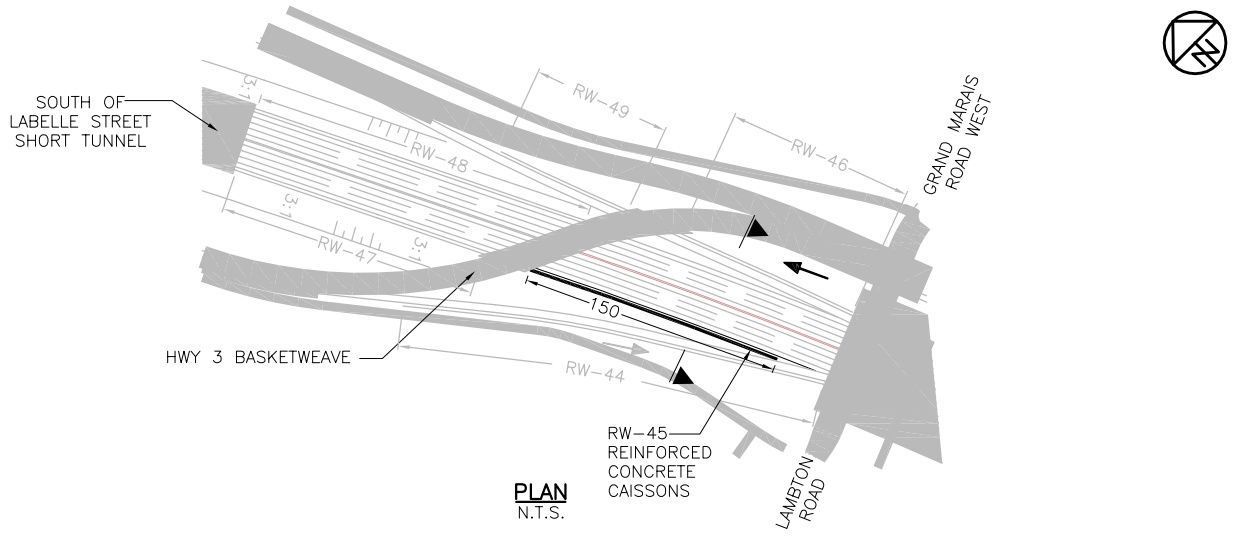


LENGTH (m)	260 WEST SIDE		WIDTH (m)	----
STRUCTURAL DEPTH (m)	----		SPAN/DEPTH RATIO	----
SKEW ANGLE	----		VERTICAL CLEARANCE (m)	----
UNIT PRICE (\$/m)	NEW STRUCTURE	15,000	ESTIMATED COST (\$)	3,900,000
	REHABILITATION	----		
COMMENTS (SPECIAL CONSTRUCTION & DESIGN FEATURES)				
NAME OF CONSULTANT (FOR PLANNING)	URS CANADA INC.		DATE	FEBRUARY 2008

FILENAME: C:\projects\2014\DRG_LAST REPORT\BA-2C-REV-FEB-CAISSINWALL\Bridges\Alternative-2C-REV-FEB-2008-BRIDGES.dwg
 PLOTDATE: Mar 17, 2008 3:50pm

STRUCTURAL PLANNING SHEET

W.O.NO.	----	CORRIDOR	HC-T	ROUTE	ALIGNMENT ALTERNATIVE "THE PARKWAY"
STRUCTURE I.D.	RW-45	SITE NO.	----	LOCATION	NORTH OF GRAND MARAIS ROAD WEST
STRUCTURE NAME	BELOW GRADE HWY 401 AT NORTH OF GRAND MARAIS ROAD WEST			<input type="checkbox"/> EXISTING <input checked="" type="checkbox"/> NEW	<input type="checkbox"/> OVERPASS <input type="checkbox"/> UNDERPASS <input checked="" type="checkbox"/> BELOW GRADE HWY <input type="checkbox"/> APPROACH RAMP
STRUCTURE DESCRIPTION	CAISSON RETAINING WALL (TYPE "B") OF VARIABLE HEIGHT ON WEST SIDE				

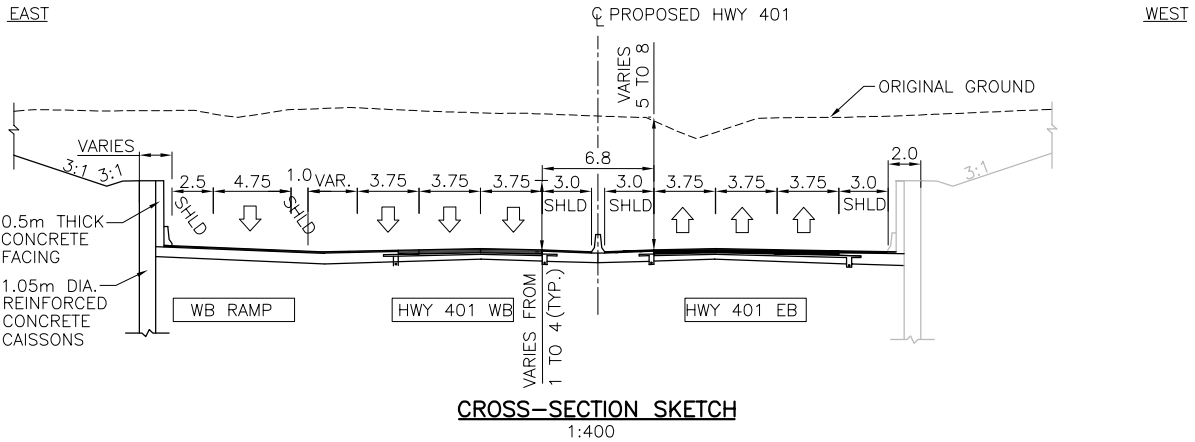
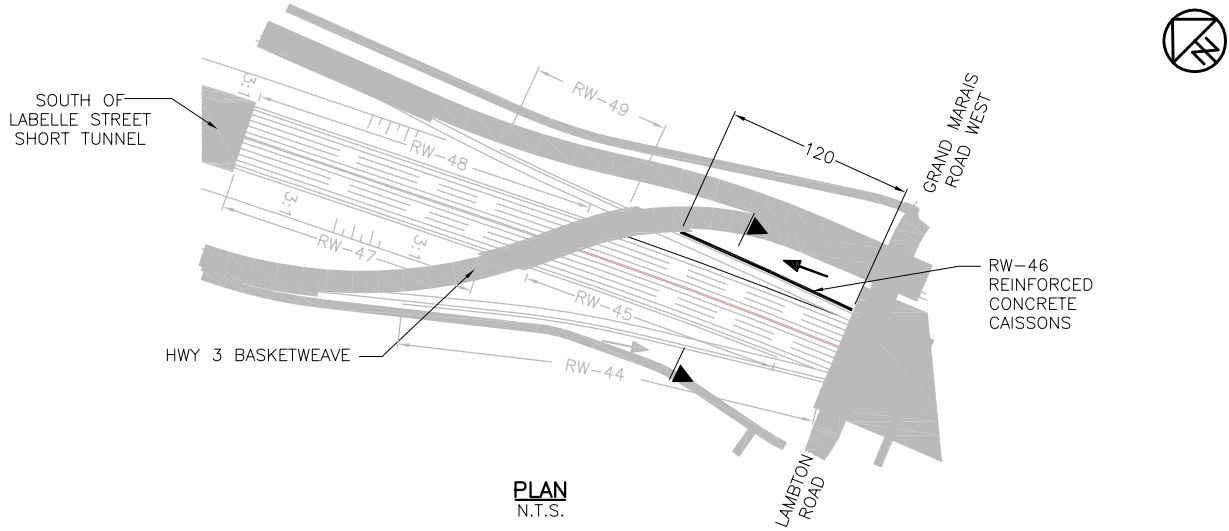


LENGTH (m)	150 WEST SIDE		WIDTH (m)	----
STRUCTURAL DEPTH (m)	----		SPAN/DEPTH RATIO	----
SKREW ANGLE	----		VERTICAL CLEARANCE (m)	----
UNIT PRICE (\$/m)	NEW STRUCTURE	29,500	ESTIMATED COST (\$)	4,425,000
	REHABILITATION	----		
COMMENTS (SPECIAL CONSTRUCTION & DESIGN FEATURES)				
NAME OF CONSULTANT (FOR PLANNING)	URS CANADA INC.		DATE	FEBRUARY 2008

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STRUCTURAL PLANNING SHEET

W.O.NO.	----	CORRIDOR	HC-T	ROUTE	ALIGNMENT ALTERNATIVE 'THE PARKWAY'
STRUCTURE I.D.	RW-46	SITE NO.	----	LOCATION	NORTH OF GRAND MARAIS ROAD WEST
STRUCTURE NAME	BELOW GRADE HWY 401 AT NORTH OF GRAND MARAIS ROAD WEST			<input type="checkbox"/> EXISTING <input checked="" type="checkbox"/> NEW	<input type="checkbox"/> OVERPASS <input type="checkbox"/> UNDERPASS <input checked="" type="checkbox"/> BELOW GRADE HWY <input type="checkbox"/> APPROACH RAMP
STRUCTURE DESCRIPTION	CAISSON RETAINING WALL (TYPE "B") OF VARIABLE HEIGHT ON EAST SIDE				

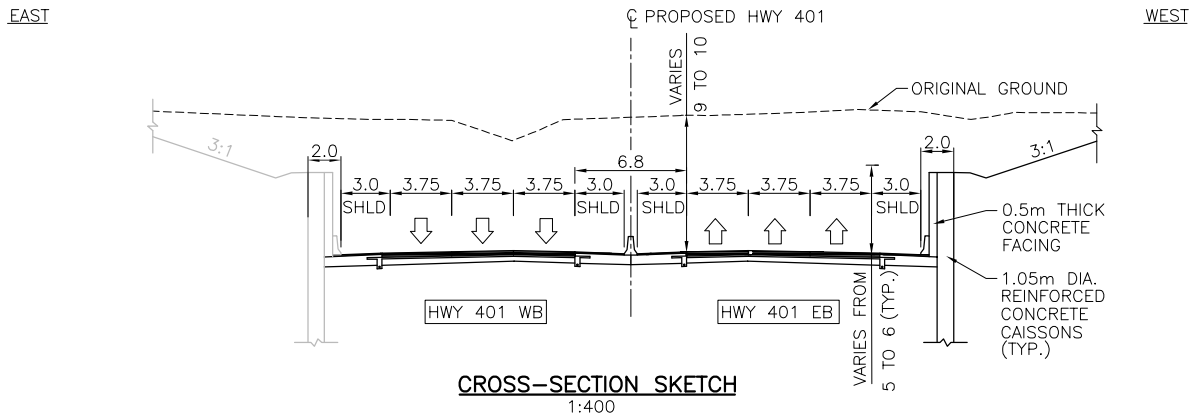
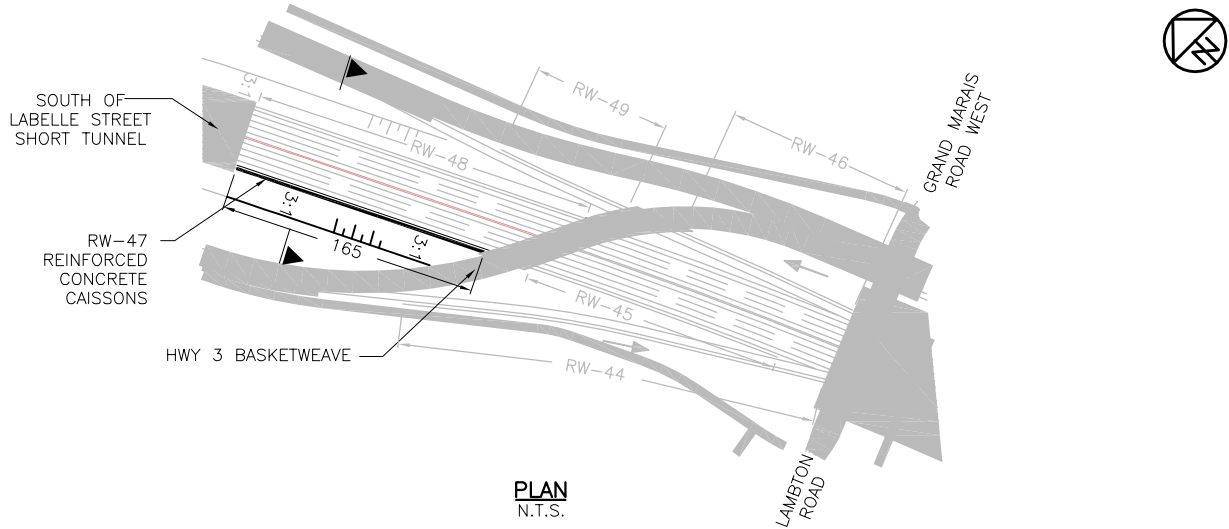


LENGTH (m)	120 EAST SIDE		WIDTH (m)	----
STRUCTURAL DEPTH (m)	----		SPAN/DEPTH RATIO	----
SKREW ANGLE	----		VERTICAL CLEARANCE (m)	----
UNIT PRICE (\$/m)	NEW STRUCTURE	29,500	ESTIMATED COST (\$)	3,540,000
	REHABILITATION	----		
COMMENTS (SPECIAL CONSTRUCTION & DESIGN FEATURES)				
NAME OF CONSULTANT (FOR PLANNING)	URS CANADA INC.	DATE	FEBRUARY 2008	

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STRUCTURAL PLANNING SHEET

W.O.NO.	----	CORRIDOR	HC-T	ROUTE	ALIGNMENT ALTERNATIVE 'THE PARKWAY'
STRUCTURE I.D.	RW-47	SITE NO.	----	LOCATION	SOUTH OF LABELLE STREET
STRUCTURE NAME	BELOW GRADE HWY 401 AT SOUTH OF LABELLE ST.		<input type="checkbox"/> EXISTING <input checked="" type="checkbox"/> NEW	<input type="checkbox"/> OVERPASS <input type="checkbox"/> UNDERPASS	<input checked="" type="checkbox"/> BELOW GRADE HWY <input type="checkbox"/> APPROACH RAMP
STRUCTURE DESCRIPTION	CAISSON RETAINING WALL (TYPE "B") OF VARIABLE HEIGHT ON WEST SIDE				

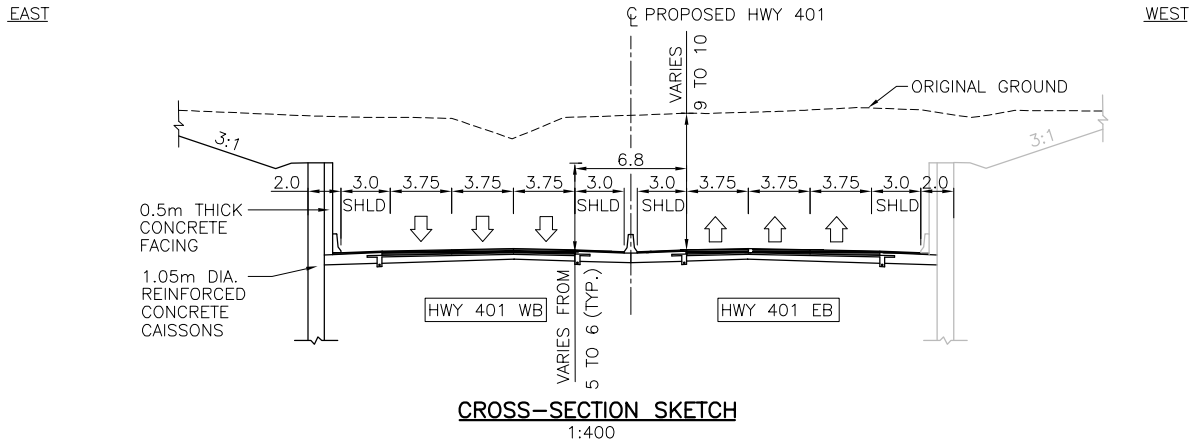
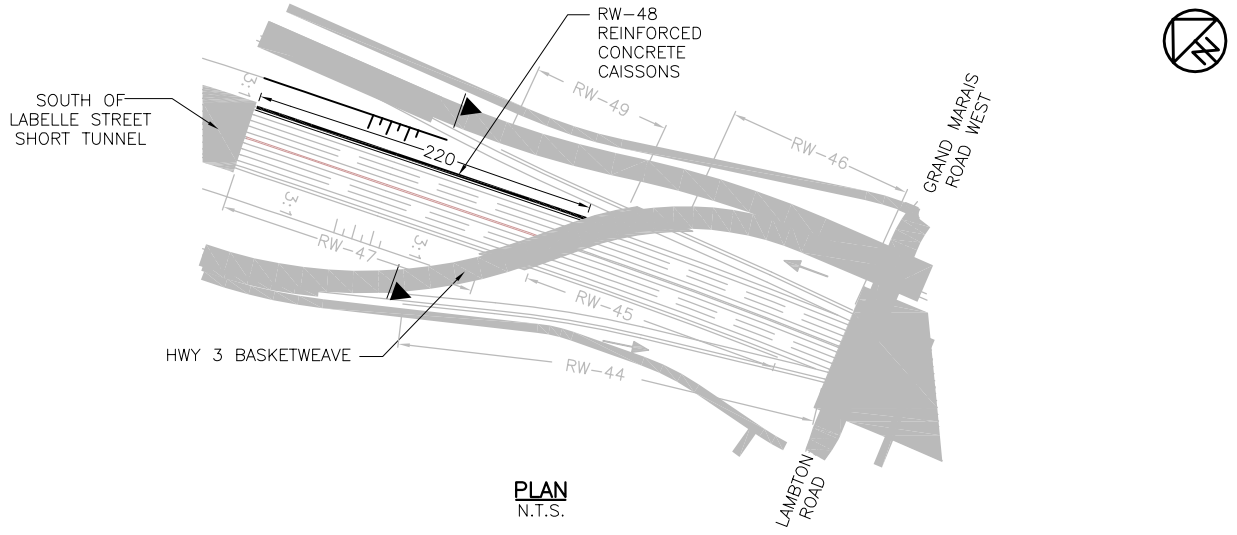


LENGTH (m)	165 WEST SIDE		WIDTH (m)	----
STRUCTURAL DEPTH (m)	----		SPAN/DEPTH RATIO	----
SKREW ANGLE	----		VERTICAL CLEARANCE (m)	----
UNIT PRICE (\$/m)	NEW STRUCTURE	29,500	ESTIMATED COST (\$)	4,867,500
	REHABILITATION	----		
COMMENTS (SPECIAL CONSTRUCTION & DESIGN FEATURES)	HEIGHT OF CAISSON WALL MAY BE REDUCED AFTER DETAILED REVIEW AT NEXT STAGE OF DESIGN.			
NAME OF CONSULTANT (FOR PLANNING)	URS CANADA INC.		DATE	FEBRUARY 2008

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 PLOT DATE: Mar 17, 2008 3:52pm

STRUCTURAL PLANNING SHEET

W.O.NO.	----	CORRIDOR	HC-T	ROUTE	ALIGNMENT ALTERNATIVE 'THE PARKWAY'
STRUCTURE I.D.	RW-48	SITE NO.	----	LOCATION	NORTH OF HWY 3 BASKETWEAVE AT SOUTH OF LABELLE STREET
STRUCTURE NAME	BELOW GRADE HWY 401 AT NORTH OF HWY3 BASKETWEAVE AT SOUTH OF LABELLE STREET			<input type="checkbox"/> EXISTING <input checked="" type="checkbox"/> NEW	<input type="checkbox"/> OVERPASS <input type="checkbox"/> UNDERPASS <input checked="" type="checkbox"/> BELOW GRADE HWY <input type="checkbox"/> APPROACH RAMP
STRUCTURE DESCRIPTION	CAISSON RETAINING WALL (TYPE "B") OF VARIABLE HEIGHT ON EAST SIDE				



LENGTH (m)	220 EAST SIDE		WIDTH (m)	----
STRUCTURAL DEPTH (m)	----		SPAN/DEPTH RATIO	----
SKEW ANGLE	----		VERTICAL CLEARANCE (m)	----
UNIT PRICE (\$/m)	NEW STRUCTURE	29,500	ESTIMATED COST (\$)	6,490,000
	REHABILITATION	----		
COMMENTS (SPECIAL CONSTRUCTION & DESIGN FEATURES)				
NAME OF CONSULTANT (FOR PLANNING)	URS CANADA INC.		DATE	FEBRUARY 2008

FILENAME: C:\projects\2014\DRG_LAST REPORT\BA-2C-REV-FEB-CAISSINWALL\Bridges\Alternative-2C-REV-FEB-2008-BRIDGES.dwg
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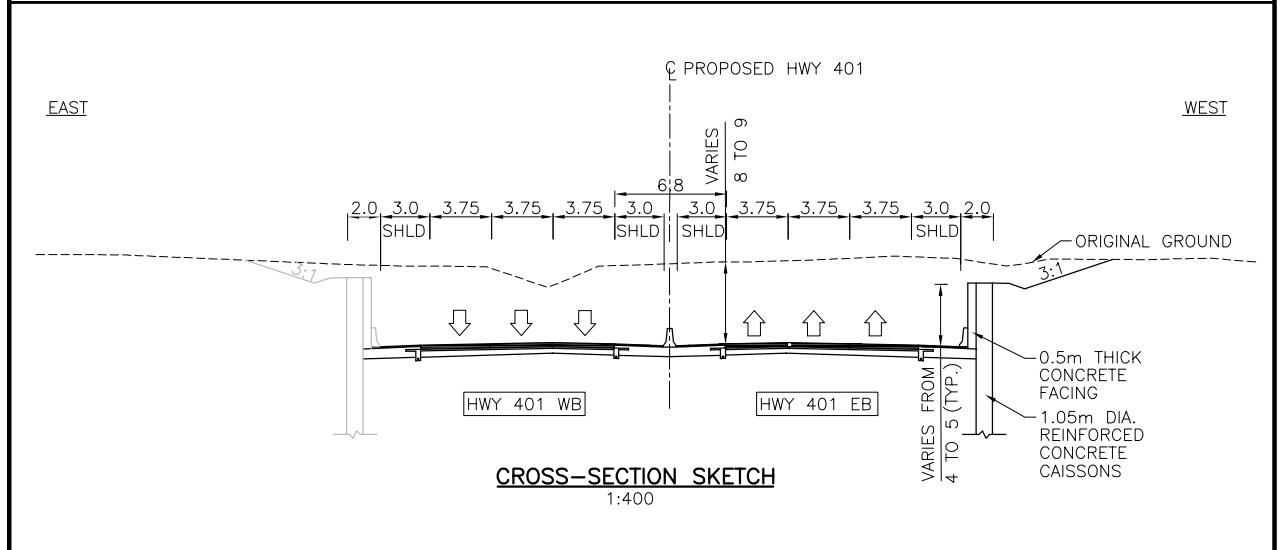
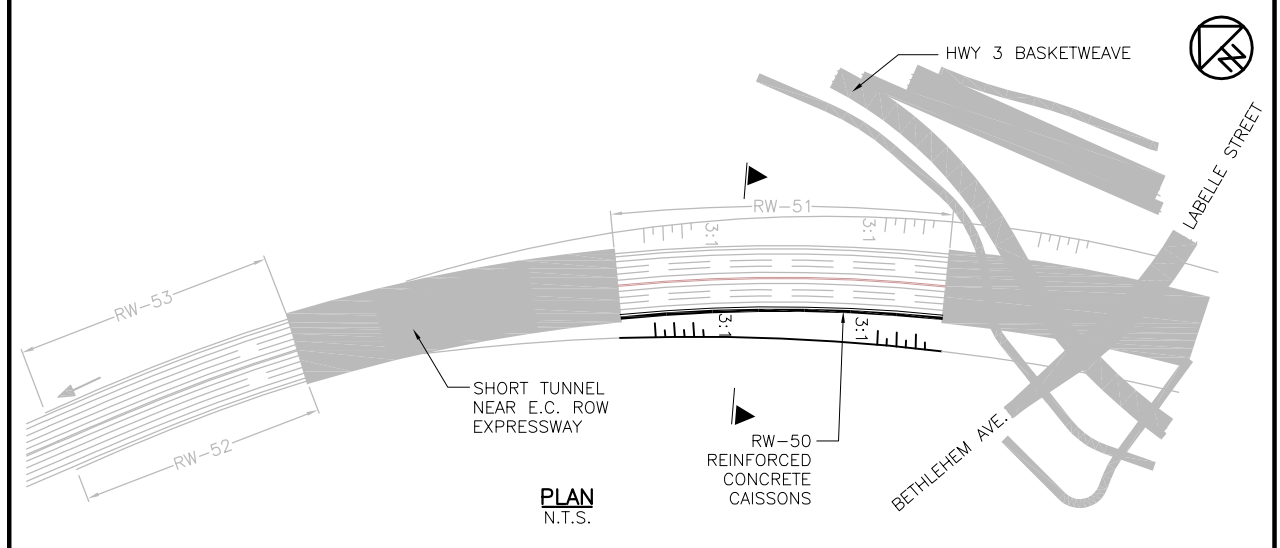
STRUCTURAL PLANNING SHEET

W.O.NO.	----	CORRIDOR	HC-T	ROUTE	ALIGNMENT ALTERNATIVE 'THE PARKWAY'
STRUCTURE I.D.	RW-49	SITE NO.	----	LOCATION	SOUTH OF LABELLE STREET
STRUCTURE NAME	WB LANE RAMP AT SOUTH OF LABELLE STREET			<input type="checkbox"/> EXISTING <input checked="" type="checkbox"/> NEW	<input type="checkbox"/> OVERPASS <input type="checkbox"/> UNDERPASS <input type="checkbox"/> BELOW GRADE HWY <input checked="" type="checkbox"/> APPROACH RAMP
STRUCTURE DESCRIPTION	CAISSON RETAINING WALL (TYPE "BS1") OF VARIABLE HEIGHT ON EAST SIDE				
<p style="text-align: center;">PLAN N.T.S.</p>					
<p style="text-align: center;">CROSS-SECTION SKETCH 1:400</p>					
LENGTH (m)	80 EAST SIDE		WIDTH (m)		----
STRUCTURAL DEPTH (m)	----		SPAN/DEPTH RATIO		----
SKEW ANGLE	----		VERTICAL CLEARANCE (m)		----
UNIT PRICE (\$/m)	NEW STRUCTURE	15,000		ESTIMATED COST (\$)	1,200,000
	REHABILITATION	----			
COMMENTS (SPECIAL CONSTRUCTION & DESIGN FEATURES)					
NAME OF CONSULTANT (FOR PLANNING)		URS CANADA INC.		DATE	FEBRUARY 2008

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STRUCTURAL PLANNING SHEET

W.O.NO.	----	CORRIDOR	HC-T	ROUTE	ALIGNMENT ALTERNATIVE "THE PARKWAY"
STRUCTURE I.D.	RW-50	SITE NO.	----	LOCATION	NORTH OF LABELLE STREET
STRUCTURE NAME	BELOW GRADE HWY 401 AT NORTH OF LABELLE ST.			<input type="checkbox"/> EXISTING <input checked="" type="checkbox"/> NEW	<input type="checkbox"/> OVERPASS <input type="checkbox"/> UNDERPASS <input checked="" type="checkbox"/> BELOW GRADE HWY <input type="checkbox"/> APPROACH RAMP
STRUCTURE DESCRIPTION	CAISSON RETAINING WALL (TYPE "B") OF VARIABLE HEIGHT ON WEST SIDE				

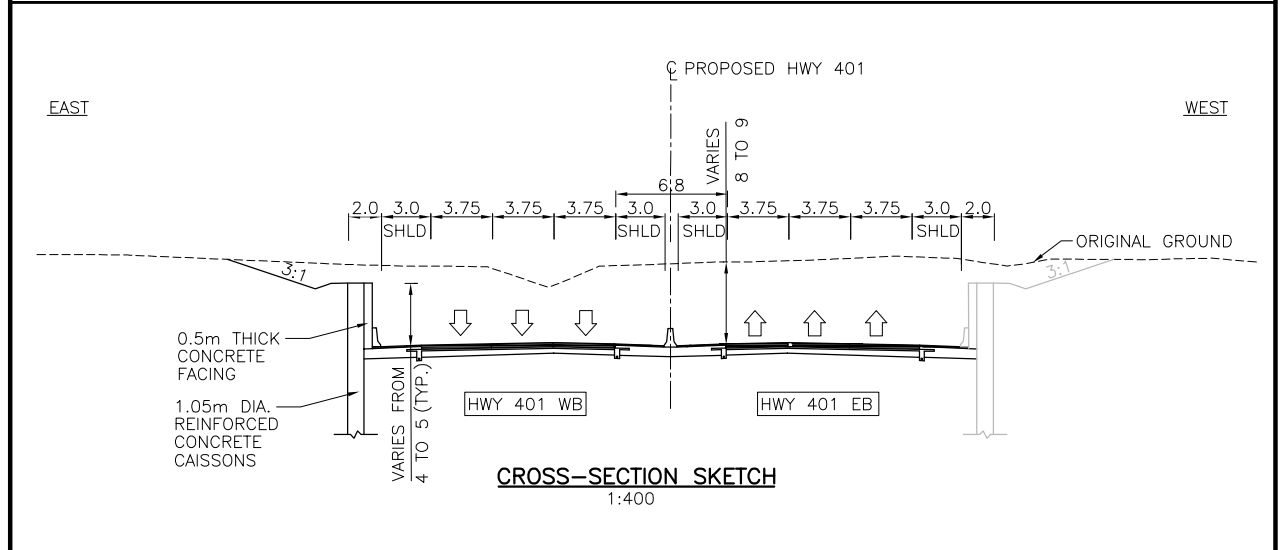
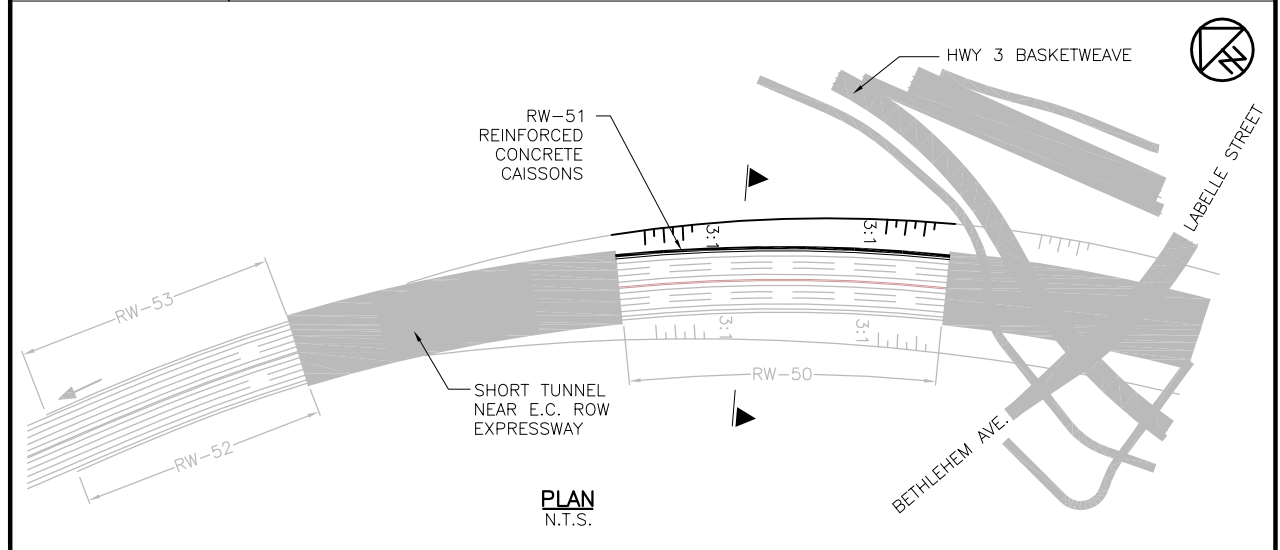


LENGTH (m)	200 WEST SIDE		WIDTH (m)	----
STRUCTURAL DEPTH (m)	----		SPAN/DEPTH RATIO	----
SKEW ANGLE	----		VERTICAL CLEARANCE (m)	----
UNIT PRICE (\$/m)	NEW STRUCTURE	29,500	ESTIMATED COST (\$)	5,900,000
	REHABILITATION	----		
COMMENTS (SPECIAL CONSTRUCTION & DESIGN FEATURES)				
NAME OF CONSULTANT (FOR PLANNING)	URS CANADA INC.		DATE	FEBRUARY 2008

FILENAME: C:\projects\014\DRG_LAST REPORT BA-2C-REV-FEB-CAISSINWALL\Bridges\Alternative-2C-REV-FEB-2008-BRIDGES.dwg
 PLOT DATE: Mar 17, 2008 -- 3:52pm

STRUCTURAL PLANNING SHEET

W.O.NO.	----	CORRIDOR	HC-T	ROUTE	ALIGNMENT ALTERNATIVE 'THE PARKWAY'
STRUCTURE I.D.	RW-51	SITE NO.	----	LOCATION	NORTH OF LABELLE STREET
STRUCTURE NAME	BELOW GRADE HWY 401 AT NORTH OF LABELLE ST.		<input type="checkbox"/> EXISTING <input checked="" type="checkbox"/> NEW	<input type="checkbox"/> OVERPASS <input type="checkbox"/> UNDERPASS	<input checked="" type="checkbox"/> BELOW GRADE HWY <input type="checkbox"/> APPROACH RAMP
STRUCTURE DESCRIPTION	CAISSON RETAINING WALL (TYPE "B") OF VARIABLE HEIGHT ON EAST SIDE				

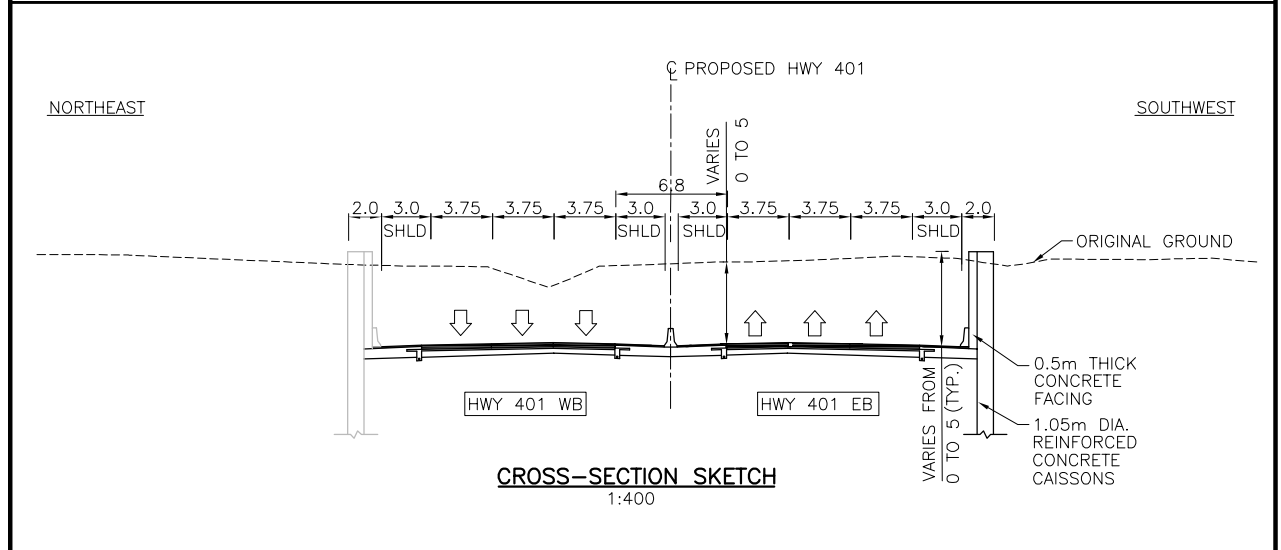
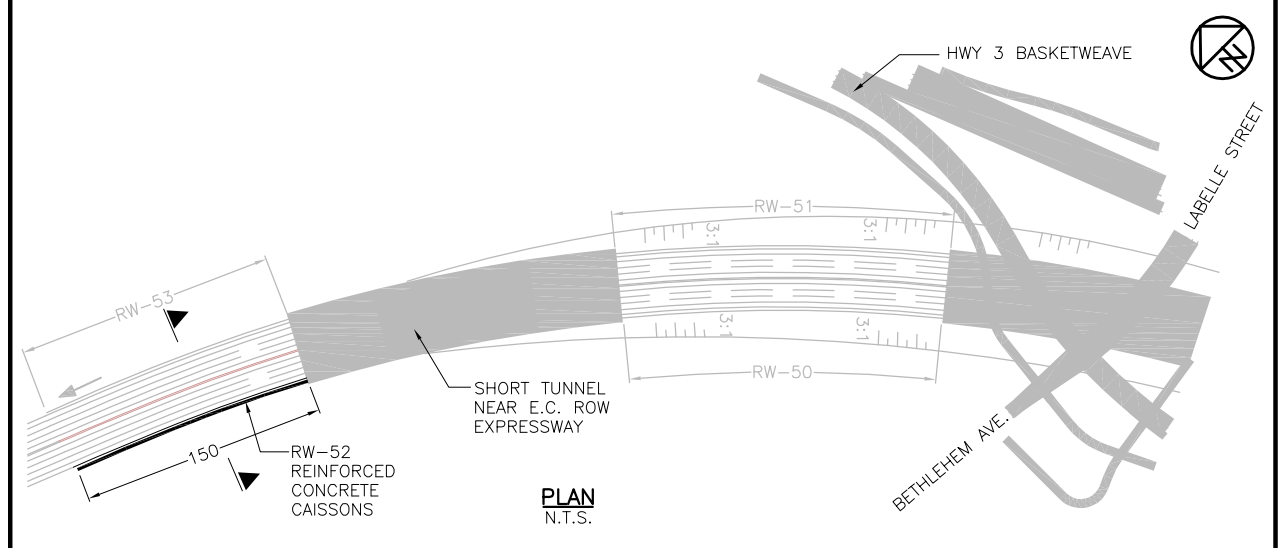


LENGTH (m)	200 EAST SIDE		WIDTH (m)	----
STRUCTURAL DEPTH (m)	----		SPAN/DEPTH RATIO	----
SKEW ANGLE	----		VERTICAL CLEARANCE (m)	----
UNIT PRICE (\$/m)	NEW STRUCTURE	29,500	ESTIMATED COST (\$)	5,900,000
	REHABILITATION	----		
COMMENTS (SPECIAL CONSTRUCTION & DESIGN FEATURES)				
NAME OF CONSULTANT (FOR PLANNING)	URS CANADA INC.		DATE	FEBRUARY 2008

FILENAME: C:\projects\2008\DRG_LAST REPORT\BA-20-REV-FEB-CAISSINWALL\BridgAltAlternative-20-REV-FEB-2008-BRIDGES.dwg
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STRUCTURAL PLANNING SHEET

W.O.NO.	----	CORRIDOR	HC-T	ROUTE	ALIGNMENT ALTERNATIVE "THE PARKWAY"	
STRUCTURE I.D.	RW-52	SITE NO.	----	LOCATION	WEST OF SHORT TUNNEL NEAR E.C. ROW EXPRESSWAY	
STRUCTURE NAME	HWY 401 RAMP AT WEST OF SHORT TUNNEL NEAR E.C. ROW EXPRESSWAY			<input type="checkbox"/> EXISTING <input checked="" type="checkbox"/> NEW	<input type="checkbox"/> OVERPASS <input type="checkbox"/> UNDERPASS	<input checked="" type="checkbox"/> BELOW GRADE HWY <input type="checkbox"/> APPROACH RAMP
STRUCTURE DESCRIPTION	CAISSON RETAINING WALL (TYPE "BS1") OF VARIABLE HEIGHT ON SOUTHWEST SIDE					

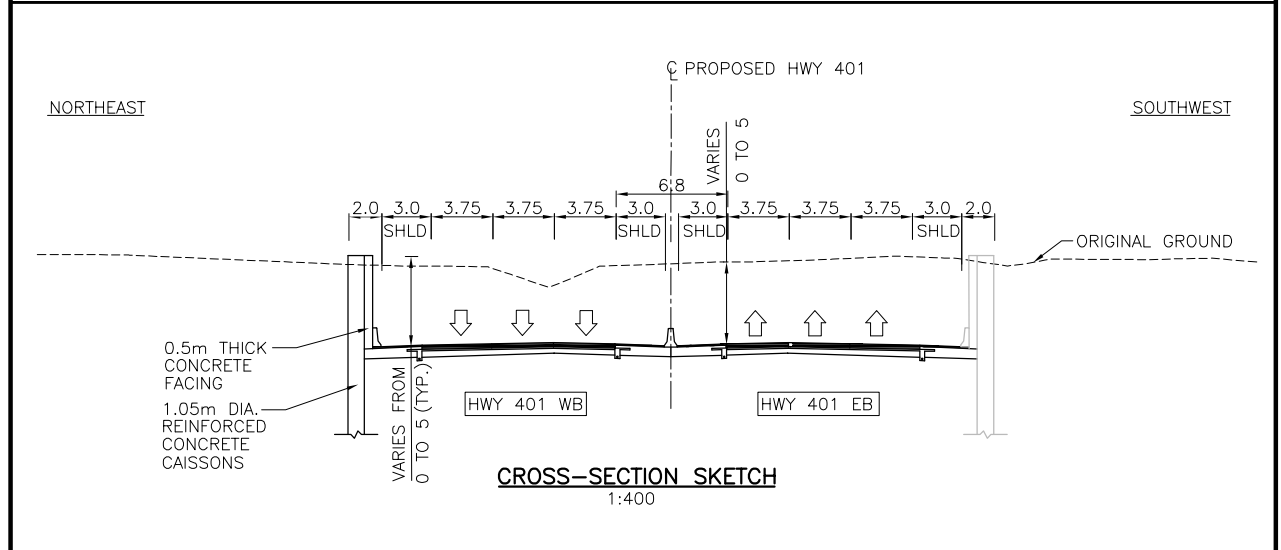
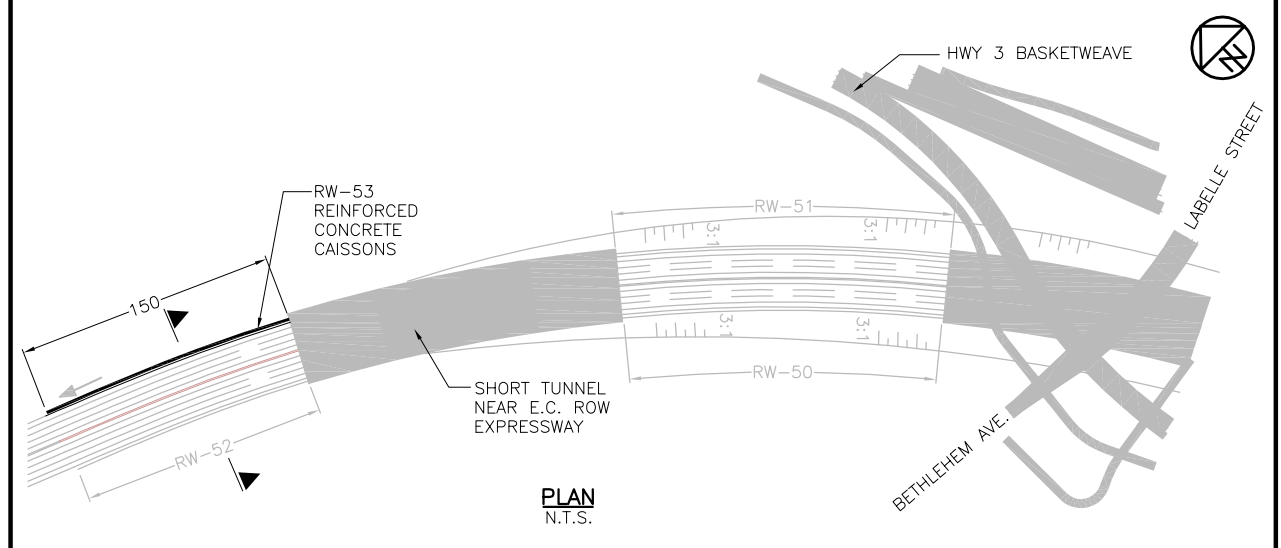


LENGTH (m)	150 SOUTHWEST SIDE		WIDTH (m)	----
STRUCTURAL DEPTH (m)	----		SPAN/DEPTH RATIO	----
SKEW ANGLE	----		VERTICAL CLEARANCE (m)	----
UNIT PRICE (\$/m)	NEW STRUCTURE	15,000	ESTIMATED COST (\$)	2,250,000
	REHABILITATION	----		
COMMENTS (SPECIAL CONSTRUCTION & DESIGN FEATURES)	- THIS STRUCTURE MAY BE DELETED AFTER DETAILED REVIEW AT NEXT STAGE OF DESIGN.			
NAME OF CONSULTANT (FOR PLANNING)	URS CANADA INC.		DATE	FEBRUARY 2008

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STRUCTURAL PLANNING SHEET

W.O.NO.	----	CORRIDOR	HC-T	ROUTE	ALIGNMENT ALTERNATIVE "THE PARKWAY"	
STRUCTURE I.D.	RW-53	SITE NO.	----	LOCATION	WEST OF SHORT TUNNEL NEAR E.C. ROW EXPRESSWAY	
STRUCTURE NAME	HWY 401 RAMP AT WEST OF SHORT TUNNEL NEAR E.C. ROW EXPRESSWAY			<input type="checkbox"/> EXISTING <input checked="" type="checkbox"/> NEW	<input type="checkbox"/> OVERPASS <input type="checkbox"/> UNDERPASS	<input checked="" type="checkbox"/> BELOW GRADE HWY <input type="checkbox"/> APPROACH RAMP
STRUCTURE DESCRIPTION	CAISSON RETAINING WALL (TYPE "BS1") OF VARIABLE HEIGHT ON NORTHEAST SIDE					



LENGTH (m)	150 NORTHEAST SIDE		WIDTH (m)	----
STRUCTURAL DEPTH (m)	----		SPAN/DEPTH RATIO	----
SKEW ANGLE	----		VERTICAL CLEARANCE (m)	----
UNIT PRICE (\$/m)	NEW STRUCTURE	15,000	ESTIMATED COST (\$)	2,250,000
	REHABILITATION	----		
COMMENTS (SPECIAL CONSTRUCTION & DESIGN FEATURES)	- THIS STRUCTURE MAY BE DELETED AFTER DETAILED REVIEW AT NEXT STAGE OF DESIGN.			
NAME OF CONSULTANT (FOR PLANNING)	URS CANADA INC.		DATE	FEBRUARY 2008

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