

# PRELIMINARY INFORMATION SHEET



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LIST OF STANDARDS

B-5M	SLOPE GRADING, EMBANKMENTS, MUCK	1/3/2000
B-12M	SIDE ROAD INTERSECTION, DEPRESSED RAMP	1/3/2000
B-71M	RESIDENTIAL AND COMMERCIAL DRIVES	3/1/2001
C-1M	CURB DETAILS	1/3/2000
C-28M	CEMENT CONCRETE SIDEWALK, GRANITE CURB	1/3/2000
C-3A	SIDEWALK RAMPS	2/2/2004
D-8M	REINFORCED CONCRETE DROP INLET WITH PRECAST COVER & GRATE	1/3/2000
D-9M	REINFORCED CONCRETE DROP INLET TOPS VERTICAL CURB & THROAT ADAPTER	6/13/1997
D-13M	CONCRETE CATCH BASIN	1/3/2000
D-15M	CAST IRON GRATE & FRAME, TYPES D & E	6/13/1997
D-20M	HIGHWAY CROSSING SLEEVES FOR UNDERGROUND UTILITIES	6/13/1997
E-100M	CONSTRUCTION APPROACH SIGNS	6/13/1997
E-100AM	SIDE ROAD CONSTRUCTION APPROACH SIGNS	2/2/1998
E-101M	CONSTRUCTION SIGN DETAILS	5/30/2003
E-102M	CONSTRUCTION SIGN DETAILS	6/13/2003
E-102AM	CONSTRUCTION SIGN DETAILS	6/13/1997
E-106M	TRAFFIC CONTROL MISCELLANEOUS DETAILS	6/13/1997
E-107M	DELINEATION, BARRICADES AND DETOURS FOR CONSTRUCTION AREAS	6/13/2003
E-107AM	BREAKAWAY BARRICADE DETAILS	6/13/1997
E-108M	CONSTRUCTION ZONE LONGITUDINAL DROP OFFS	6/13/1997
E-119M	UTILITY WORK ZONE	6/13/1997
E-120M	STANDARD SIGN PLACEMENT EXPRESSWAY AND FREEWAY	6/13/1997
E-121M	STANDARD SIGN PLACEMENT CONVENTIONAL ROAD	6/13/1997
E-142M	REGULATORY SIGN DETAILS	6/13/1997
E-143M	REGULATORY SIGN DETAILS	6/13/1997
E-153M	WARNING SIGN DETAILS	6/13/1997
E-155M	WARNING SIGN DETAILS	6/13/1997
E-160M	FLANGED CHANNEL STEEL SIGN POST	6/13/1997
E-175M	POWER DROP STANCHIONS	6/13/1997
E-191M	PAVEMENT MARKING DETAILS	2/1/1999
E-192M	PAVEMENT MARKING DETAILS	12/28/1998
E-193M	PAVEMENT MARKING DETAILS	6/13/1997
F-2M	CHAIN LINK FENCE (TYPE I)	1/3/2000
G-18	PRECAST CONCRETE TEMPORARY TRAFFIC BARRIER	6/13/1997
J-2M	CONCRETE STEPS-HAND RAILING	6/13/1997
*SB-R4A-82	BRIDGE RAILING, GALVANIZED BOX BEAM	9/19/1989
*C-3B	SIDEWALK RAMPS AND MEDIAN ISLANDS	2/2/2004

\*THESE STANDARDS ARE ONLY AVAILABLE IN U.S. CUSTOMARY (ENGLISH) UNITS  
CONTRACTOR SHALL SUBMIT SHOP DRAWINGS WITH DIMENSIONS  
CONVERTED TO METRIC

FINAL HYDRAULIC REPORT

**HYDROLOGIC DATA** Date: 7/2000

DRAINAGE AREA: N/A  
 CHARACTER OF TERRAIN: N/A  
 STREAM CHARACTERISTICS: N/A  
 NATURE OF STREAMBED: N/A

**PEAK FLOW DATA**

Q 2.33 = N/A      Q 50 = N/A  
 Q 10 = N/A      Q 100 = N/A  
 Q 25 = N/A      Q 500 = N/A

DATE OF FLOOD RECORD: N/A  
 ESTIMATED DISCHARGE: N/A  
 WATER SURFACE ELEV.: N/A  
 NATURAL STREAM VELOCITY: N/A  
 ICE CONDITIONS: N/A  
 DEBRIS: N/A  
 DOES THE STREAM REACH MAXIMUM HIGHWATER ELEV. RAPIDLY? N/A  
 IS ORDINARY RISE RAPID? N/A  
 IS STAGE AFFECTED BY UPSTREAM OR DOWNSTREAM CONDITIONS? N/A  
 IF YES, DESCRIBE: N/A

WATERSHED STORAGE: N/A      HEADWATERS: N/A  
 UNIFORM: N/A  
 IMMEDIATELY ABOVE SITE: N/A

**EXISTING STRUCTURE INFORMATION**

STRUCTURE TYPE: STEEL GIRDERS ENCASED IN CONCRETE  
 YEAR BUILT: (1910)  
 CLEAR SPAN(NORMAL TO STREAM): 9.90 m  
 VERTICAL CLEARANCE ABOVE STREAMBED: N/A  
 WATERWAY OF FULL OPENING: N/A  
 DISPOSITION OF STRUCTURE: Remove  
 TYPE OF MATERIAL UNDER SUBSTRUCTURE: Unknown

WATER SURFACE ELEVATIONS AT:

Q2.33 = N/A      VELOCITY = N/A  
 Q10 = N/A      "      N/A  
 Q25 = N/A      "      N/A  
 Q50 = N/A      "      N/A  
 Q100 = N/A      "      N/A

LONG TERM STREAMBED CHANGES: N/A

IS THE ROADWAY OVERTOPPED BELOW Q100: N/A  
 FREQUENCY: N/A  
 RELIEF ELEVATION: N/A  
 DISCHARGE OVER ROAD @Q100: N/A

**UPSTREAM STRUCTURE**

TOWN: N/A      DISTANCE: N/A  
 HIGHWAY #: N/A      STRUCTURE #: N/A  
 CLEAR SPAN: N/A      CLEAR HEIGHT: N/A  
 YEAR BUILT: N/A      FULL WATERWAY: N/A  
 STRUCTURE TYPE: N/A

**DOWNSTREAM STRUCTURE**

TOWN: N/A      DISTANCE: N/A  
 HIGHWAY #: N/A      STRUCTURE #: N/A  
 CLEAR SPAN: N/A      CLEAR HEIGHT: N/A  
 YEAR BUILT: N/A      FULL WATERWAY: N/A  
 STRUCTURE TYPE: N/A

**LFD LOAD RATING (TONS)**

LOADING LEVELS	TRUCK						
	M	MS	3S2	6 AXLE	3A. STR.	4A. STR.	SA SEMI
INVENTORY	27	46					
POSTED	38	65	86		50	54	87
OPERATING		78	103	129	60	65	

COMMENTS: 0

**TRAFFIC DATA**

YEAR	ADT	DHV	% D	% T	ADTT
2000	3300	460	51	1	55
2020	4450	610	51	1	75

20 year ESAL for flexible pavement      2000 to 2020 : 199,000  
 40 year ESAL for flexible pavement      2000 to 2040 : 457,000  
 Design Speed : 25 km/h

**PROPOSED STRUCTURE**

STRUCTURE TYPE: CONCRETE RIGID FRAME

CLEAR SPAN(NORMAL TO STREAM): 10.330 m  
 VERTICAL CLEARANCE ABOVE STREAMBED: N/A  
 WATERWAY OF FULL OPENING: N/A

WATER SURFACE ELEVATIONS AT:

Q2.33 = N/A      VELOCITY = N/A  
 Q10 = N/A      "      N/A  
 Q25 = N/A      "      N/A  
 Q50 = N/A      "      N/A  
 Q100 = N/A      "      N/A

IS THE ROADWAY OVERTOPPED BELOW Q100: N/A  
 FREQUENCY: N/A  
 RELIEF ELEVATION: N/A  
 DISCHARGE OVER ROAD @Q100: N/A

AVERAGE LOW ELEVATION OF SUPERSTRUCTURE: 136.470 m  
 VERTICAL CLEARANCE: 6.3 m

SCOUR: N/A  
 REQUIRED CHANNEL PROTECTION: N/A

**PERMIT INFORMATION**

AVERAGE DAILY FLOW: N/A      DEPTH OR ELEVATION: N/A  
 ORDINARY LOW WATER: N/A      "      N/A  
 ORDINARY HIGH WATER: N/A      "      N/A

**TEMPORARY BRIDGE REQUIREMENTS**

STRUCTURE TYPE: N/R  
 CLEAR SPAN (NORMAL TO STREAM):  
 VERTICAL CLEARANCE ABOVE STREAMBED:  
 WATERWAY AREA OF FULL OPENING:

**ADDITIONAL INFORMATION**

-REQUIRED VERTICAL CLEARANCE ABOVE RAILROAD TRACK IS 6.3 m  
 -DURING CONST. REQ. CLEARANCE ABOVE RAILROAD TRACK IS 5.79 m  
 -REQ. HORIZ. CLEARANCE IS 2.74 m FROM CL OF TRACK (EACH SIDE)  
 -DURING CONST. REQ. HORIZ. CLEARANCE IS 2.74 m FROM CL OF TRACK (EACH SIDE)

**DESIGN CRITERIA**

- DESIGN LIVE LOAD AASHTO: MS 22.5 (HS-25)
- DESIGN SPAN: 10.333 meters
- ALLOWABLE LOAD FOR SPREAD FOOTINGS ON SOIL: N/A  
ON LEDGE
- ALLOWABLE LOAD FOR PILING: 746 kN/pile  
TYPE: HP 310 x 79  
ESTIMATED LENGTH: Frame Leg 1 = 28 m, Frame Leg 2 = 31 m
- STRUCTURAL STEEL AASHTO GRADE: N/A
- REINFORCING STEEL GRADE: 420
- CONCRETE CLASS A (HPC) f'c: 30 MPa  
CONCRETE CLASS B (HPC) f'c: 25 MPa  
SILICA - FUME CONCRETE f'c: N/A
- SOIL UNIT WEIGHT
- DESIGN LOAD FOR SPREAD FOOTINGS ON SOIL: N/A

**TRAFFIC MAINTENANCE**

- IS TRAFFIC TO BE MAINTAINED? NO  
IF YES, ON EXISTING STRUCTURE  
OR ON TEMPORARY BRIDGE
- TEMPORARY BRIDGE REQUIREMENTS: ONE OF TWO WAY  
TRAFFIC CONTROL SIGNALS REQUIRED  
MINIMUM CLEAR SPAN (NORMAL TO STREAM):  
WATERWAY OF FULL OPENING:  
VERTICAL CLEARANCE ABOVE STREAMBED:  
ARE SIDEWALKS REQUIRED?  
IF SO, ON WHAT SIDE?  
STRUCTURE TYPE:

PROJECT NAME: WATERBURY  
 PROJECT NUMBER: BRO 1446 (26)  
 FILE NAME: 02-PRELIMINARY INFO.XLS      PLOT DATE: 1/15/2004  
 PROJECT LEADER: G. EDWARDS / R. GINGRAS      DRAWN BY: M. MEILLEUR  
 DESIGNED BY: M. MEILLEUR      CHECKED BY: R. GINGRAS  
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