



RECEIVED

3 - / P. 2006

PROJECT MANAGEMENT
SOUTH COAST REGION

PROJECT No. 11313-0001

MINISTRY OF TRANSPORTATION

MISSION-ABBOTSFORD
HIGHWAY No. 11

SUMAS WAY TO CLAYBURN ROAD

TRACY COOPER, REGIONAL DIRECTOR

BRITISH COLUMBIA
 MINISTRY OF TRANSPORTATION
PROJECT No. 11313
MISSION-ABBOTSFORD
HIGHWAY No. 11

SUMAS WAY
TO
CLAYBURN ROAD

STA 6+05.100 TO STA 31+20.000 (2.5 km)

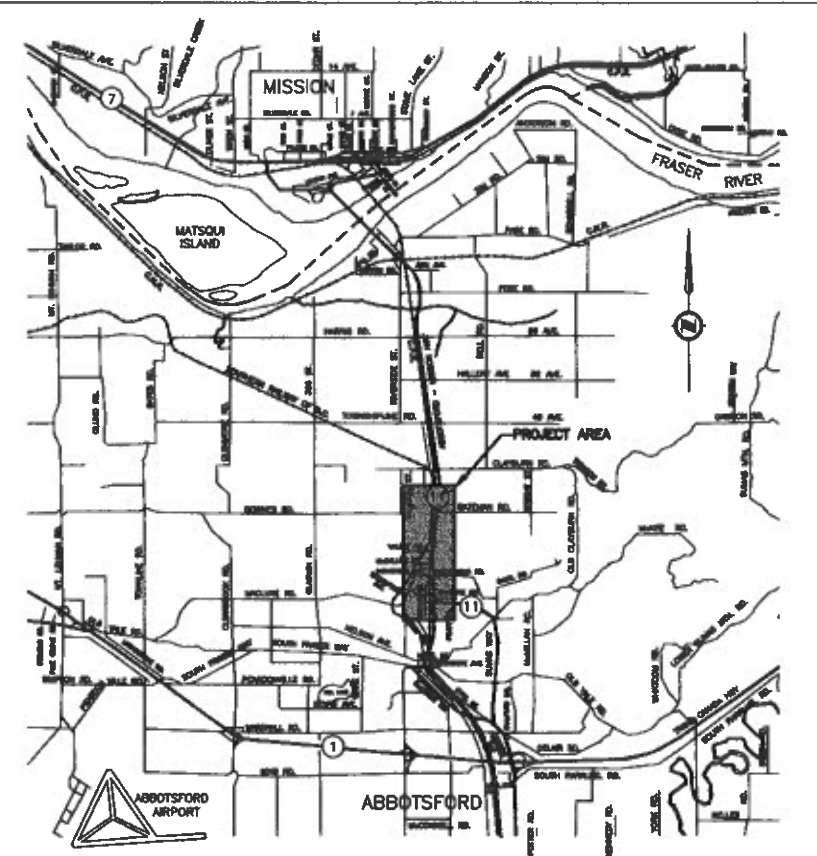
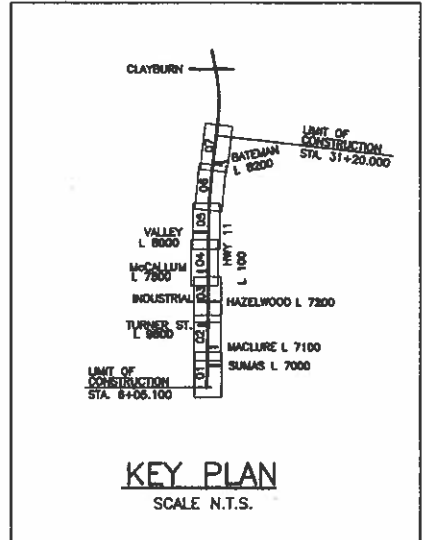
LANDMARK KILOMETRE INVENTORY
 SEGMENT 2744
 km -0.20 to km 2.3

LEGEND

- | | | | |
|----------------------------------------------|--|-------------------------------|--|
| TELEPHONE POLES | | FIRE HYDRANT | |
| POWER POLES | | GAS VALVE | |
| POWER POLE WITH TRANSFORMER | | WATER VALVE | |
| JUNCTION BOX | | WATER METER | |
| POWER POLE AND TELEPHONE COMBINED | | CATCH BASIN - EXISTING | |
| GUY WIRE AND ANCHOR | | CATCH BASIN - PROPOSED | |
| LAMP STANDARD | | MANHOLE - EXISTING | |
| GREATER VANCOUVER WATER OR REGIONAL DISTRICT | | MANHOLE - PROPOSED | |
| EXISTING SPOT ELEVATIONS | | TRAFFIC SIGNAL | |
| IRON PIN | | TRAFFIC SIGNAL CONTROL BOX | |
| MONUMENT | | ROAD SIGN - EXISTING | |
| TEST HOLES | | PROPOSED ROAD SIGN & POST | |
| PROPOSED PAVEMENT REMOVAL | | PROPOSED ROAD SIGN (NO POST) | |
| PROPOSED PAVEMENT MILLING | | ROADWAY DELINEATORS | |
| PROPOSED SURCHARGE | | KIOSK | |
| PROPOSED CUT AND FILL | | BUILDINGS | |
| PROPOSED RETAINING WALL | | TRAVERSE HUB | |
| PROPOSED SAWCUT LINE | | STREET LIGHT POST TOP | |
| DRAIN GRATE | | POWER POLE WITH LIGHT FIXTURE | |
| FLAG POLE | | POWER POLE U/GROUND ELECT | |
| REFERENCE POINT | | SERVICE POLE | |
| MAIL BOX | | GATE POST | |
| BREATHER / VENT PIPE | | TREES | |
| LAWN BASIN | | AIR VALVE | |
| CLEAN OUT | | BLOW-OFF ASSEMBLY | |
| CHECK VALVE | | | |
| GATE VALVE | | | |

- | | |
|-----------------------------------|--|
| SECTION LINES & DISTRICT LOT BOD. | |
| EASEMENT | |
| COVENANT | |
| QUARTER SECTION LINE | |
| OLD ROAD R/W (SURVEYED) | |
| SUBDIVISION BOUNDARY | |
| PROPOSED HIGHWAY R/W | |
| PROPOSED EASEMENT | |

- | | |
|--------------------------------------|------------------|
| EXISTING | PROPOSED |
| EDGE OF PAVEMENT (WHITE LINE) | EDGE OF PAVEMENT |
| EDGE OF PAVEMENT (YELLOW LINE) | EDGE OF PAVEMENT |
| EDGE OF PAVEMENT (THICK OF PAVEMENT) | EDGE OF PAVEMENT |
| PAVED ROAD | |
| GRAVEL ROAD | |
| CONTROL LINES | |
| STORM DRAINS AND SEWERS | |
| SANITARY SEWER | |
| CULVERT (WITH ENDWALL) | |
| WATER MAIN | |
| GAS MAIN | |
| SIDEWALK | |
| CURBS | |
| PAINTED MEDIAN | |
| NO-POST CONCRETE BARRIER | |
| FENCE | |
| DRAINAGE DITCH | |
| DRAINAGE SWALE | |



DRAWING INDEX

COVER	DWG. No. R1-491-001	
KEY PLAN, INDEX AND LEGEND	DWG. No. R1-491-101	to R1-491-108
DRAINAGE AND CONSTRUCTION DETAILS	DWG. No. R1-491-201	to R1-491-205
PROFILES	DWG. No. R1-491-301	to R1-491-303
TYPICAL SECTIONS & DETAILS	DWG. No. R1-491-306	to R1-491-307
WILLBAND CREEK CULVERT	DWG. No. R1-491-308	to R1-491-309
GEOMETRICS AND LANING	DWG. No. R1-491-401	to R1-491-408
SIGNING AND PAVEMENT MARKINGS	DWG. No. R1-491-501	to R1-491-508
SPOT ELEVATIONS	DWG. No. R1-491-701	to R1-491-703
SUGGESTED DETOURS AND STAGING	DWG. No. R1-491-750	to R1-491-757
REFERENCE		
SECTIONS (REFERENCE ONLY)	DWG. No. R1-491-MX01	to R1-491-MX15
ELECTRICAL		
SIGNAL AND LIGHTING INSTALLATION (SUMAS WAY/GLADYS AVE)	DWG. No. TE-04001-1	to TE-04001-3
LIGHTING INSTALLATION (TURNER ROAD/INDUSTRIAL AVE)	DWG. No. TE-04002-1	to TE-04002-2
SIGNAL AND LIGHTING INSTALLATION (McCALLUM ROAD)	DWG. No. TE-89111-1	to TE-89111-3
SIGNAL AND LIGHTING INSTALLATION (VALLEY ROAD)	DWG. No. TE-04003-1	to TE-04003-3
SIGNAL AND LIGHTING INSTALLATION (BATEMAN ROAD)	DWG. No. TE-04004-1	to TE-04004-3
SIGNAL AND LIGHTING INSTALLATION (CLAYBURN ROAD)	DWG. No. TE-02020-1	to TE-02020-3
WATERMAIN		
COVER SHEET	DWG. No. 80074-000	
KEY PLAN, INDEX & LEGEND	DWG. No. 80074-100	
PLAN & PROFILE	DWG. No. 80074-101	to 80074-109
TYPICAL TRENCH SECTION & DETAIL	DWG. No. 80074-110	

GENERAL NOTES

- THE SIZE, DEPTH AND LOCATION OF THE EXISTING OVERHEAD AND UNDERGROUND UTILITIES AND RESPECTIVE STRUCTURES SHOWN ARE APPROXIMATE AND ARE FOR GUIDANCE ONLY. THE COMPLETENESS OR ACCURACY OF THIS INFORMATION IS NOT GUARANTEED. IT SHALL BE THE CONTRACTOR'S SOLE RESPONSIBILITY TO VERIFY THE LOCATION OF THE FACILITIES PRIOR TO COMMENCING WORK, AND ADVISE THE MINISTRY REPRESENTATIVE OF ANY POTENTIAL CONFLICTS.
- PAVEMENT EXCAVATION OUTSIDE OF THE NEW EDGES OF PAVEMENT: - REMOVE ALL ASPHALT MATERIALS AND SUFFICIENT GRAVELS TO ALLOW FOR LANDSCAPING.
- THE CONTRACTOR SHALL CONFIRM THE LOCATION OF THE CUTLINE (POINT OF EXCAVATION) WITH THE MINISTRY REPRESENTATIVE BEFORE PROCEEDING.
- BASE MAPPING SURVEYED 1998
- CONTRACTOR SHALL COORDINATE WITH UTILITY REPRESENTATIVE AT TIME OF CONSTRUCTION FOR UTILITY RELOCATION.
- THE CONTRACTOR SHALL CONFORM TO FISHERIES AND OCEANS CANADA (DFO) AUTHORIZATION No: 04 HPAC PA2 000 000237 (SIGNED AND DATED MARCH 6, 2005) AND AMENDMENT TO DFO AUTHORIZATION No: 04 HPAC PA2 000 000237 (SIGNED AND DATED; OCTOBER 3, 2005). IT IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE WITH THEIR ENVIRONMENTAL MONITOR TO ENSURE INSTREAM WORKS AND CONSTRUCTION OF THE HIGHWAY, INCLUDING FISH SALVAGES, WATERCOURSE DIVERSIONS/ISOLATION; AND, EROSION AND SEDIMENT CONTROL MEASURES ARE CARRIED OUT IN ACCORDANCE TO THE AFOREMENTIONED DFO AUTHORIZATIONS.

HIGHWAY 11 - SUMAS WAY TO HARRIS ROAD SURVEY CONTROL MONUMENT

NORTHING	EASTING	ELEVATION	MON #	LOCATION
38816.176	2214.217	7.844	H4382	CLAYBURN RD. W. OF HWY 11
38834.649	1934.167	12.858	H4389	CLAYBURN RD. W. OF HWY 11

SURVEY DATUM = NAD83 GROUND
 MEAN SCALE FACTOR = 0.99963
 COORDINATES TRUNCATED = NORTHINGS BY 5400000
 EASTINGS BY 500000

NORTHING	EASTING	ELEVATION	MON #	LOCATION	STATION
36394.385	2281.028	14.278	MON H0563	INTERSECTION OF HWY 11 & ENTERPRISE AVE.	11+80
36783.804	2283.169	9.191	MON73H0545	INTERSECTION OF INDUSTRIAL AVE. & BC HYDRO R/W	15+80
37134.345	2337.236	4.448	MON73H0544	ON HWY 11, BETWEEN REG 47, PL 2173 & LOT 26, PL 24476	19+80
37598.999	2341.888	4.569	MON73H0543	ON HWY 11, 80M NORTH OF WILBAND CREEK CROSSING	23+80
38018.863	2382.078	5.087	MON73H0502	INTERSECTION OF HWY 11 & BATEMAN RD.	27+80

Province of British Columbia
 MINISTRY OF TRANSPORTATION
 SOUTH COAST REGION

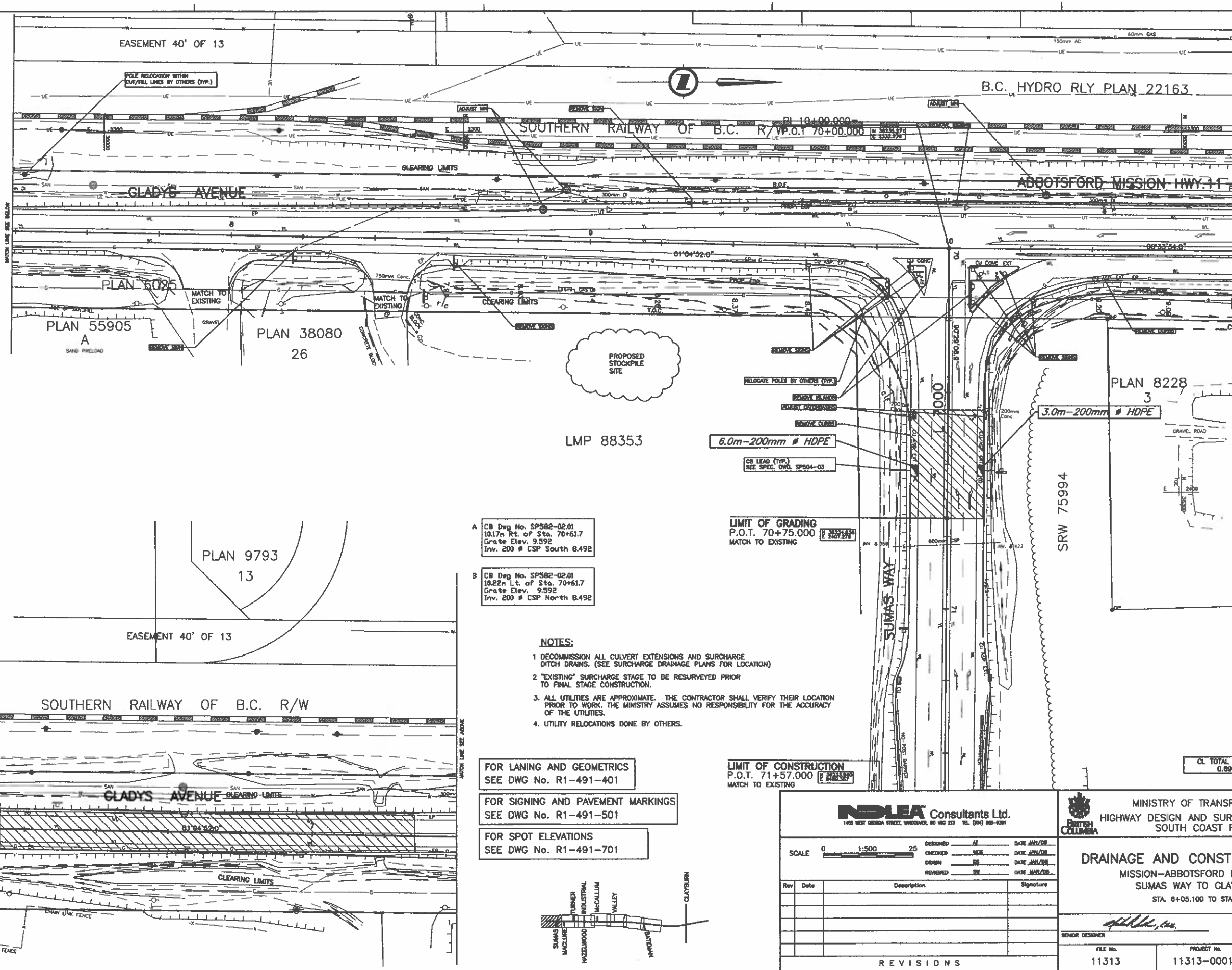
HIGHWAY DESIGN AND SURVEY ENGINEERING
KEY PLAN, INDEX AND LEGEND
 MISSION-ABBOTSFORD HIGHWAY No. 11
 SUMAS WAY TO CLAYBURN ROAD

REGIONAL MANAGER: *[Signature]*
 REGIONAL DIRECTOR: *[Signature]*

DATE: 06/03/09
 DATE: April 11, 2006

FILE No. 11313
 PROJECT No. 11313-0001
 REV. 1
 DRAWING No. R1-491-001

CANCEL PRINTS BEARING PREVIOUS LETTER



EASEMENT 40' OF 13

B.C. HYDRO RLY PLAN 22163

SOUTHERN RAILWAY OF B.C. R/W P.O.T. 70+00.000

GLADYS AVENUE

ABBOTSFORD MISSION HWY. 11

PLAN 55905
A
SAND PILEYARD

PLAN 38080
26

PROPOSED STOCKPILE SITE

LMP 88353

6.0m-200mm # HDPE

3.0m-200mm # HDPE

LIMIT OF GRADING
P.O.T. 70+75.000
MATCH TO EXISTING

A CB Deg No. SP582-02.01
10.17m Lt. of Sta. 70+61.7
Grate Elev. 9.592
Inv. 200 # CSP South 8.492

B CB Deg No. SP582-02.01
10.22m Lt. of Sta. 70+61.7
Grate Elev. 9.592
Inv. 200 # CSP North 8.492

NOTES:

1. DECOMMISSION ALL CULVERT EXTENSIONS AND SURCHARGE DITCH DRAINS. (SEE SURCHARGE DRAINAGE PLANS FOR LOCATION)
2. "EXISTING" SURCHARGE STAGE TO BE RESURVEYED PRIOR TO FINAL STAGE CONSTRUCTION.
3. ALL UTILITIES ARE APPROXIMATE. THE CONTRACTOR SHALL VERIFY THEIR LOCATION PRIOR TO WORK. THE MINISTRY ASSUMES NO RESPONSIBILITY FOR THE ACCURACY OF THE UTILITIES.
4. UTILITY RELOCATIONS DONE BY OTHERS.

FOR LANING AND GEOMETRICS
SEE DWG No. R1-491-401

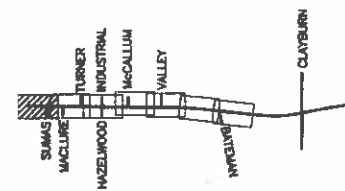
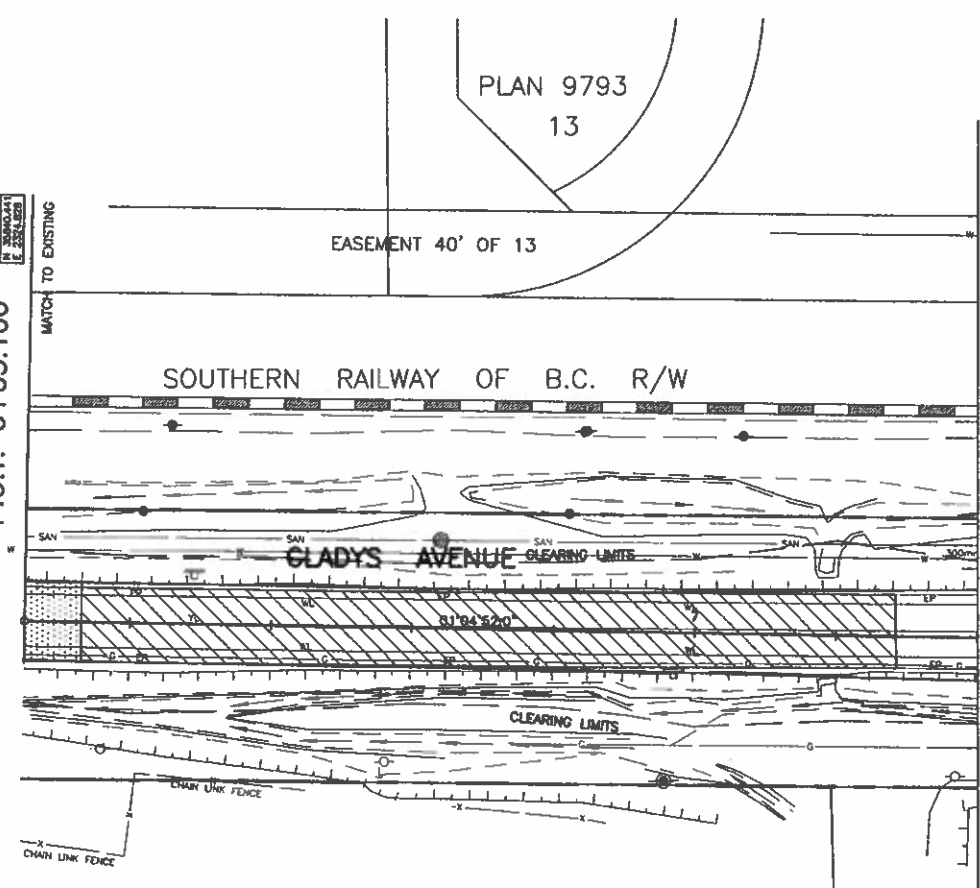
FOR SIGNING AND PAVEMENT MARKINGS
SEE DWG No. R1-491-501

FOR SPOT ELEVATIONS
SEE DWG No. R1-491-701

LIMIT OF CONSTRUCTION
P.O.T. 71+57.000
MATCH TO EXISTING

CL TOTAL THIS SHEET
0.8901 ha

LIMIT OF CONSTRUCTION
P.O.T. 6+05.100



NDIA Consultants Ltd.
1408 WEST GEORGIA STREET, VANCOUVER, BC V6G 2E3 TEL: (604) 683-6301

MINISTRY OF TRANSPORTATION
HIGHWAY DESIGN AND SURVEY ENGINEERING
SOUTH COAST REGION

DRAINAGE AND CONSTRUCTION DETAILS
MISSION-ABBOTSFORD HIGHWAY NO. 11
SUMAS WAY TO CLAYBURN ROAD
STA. 6+05.100 TO STA. 10+80.000

Rev	Date	Description	Signature

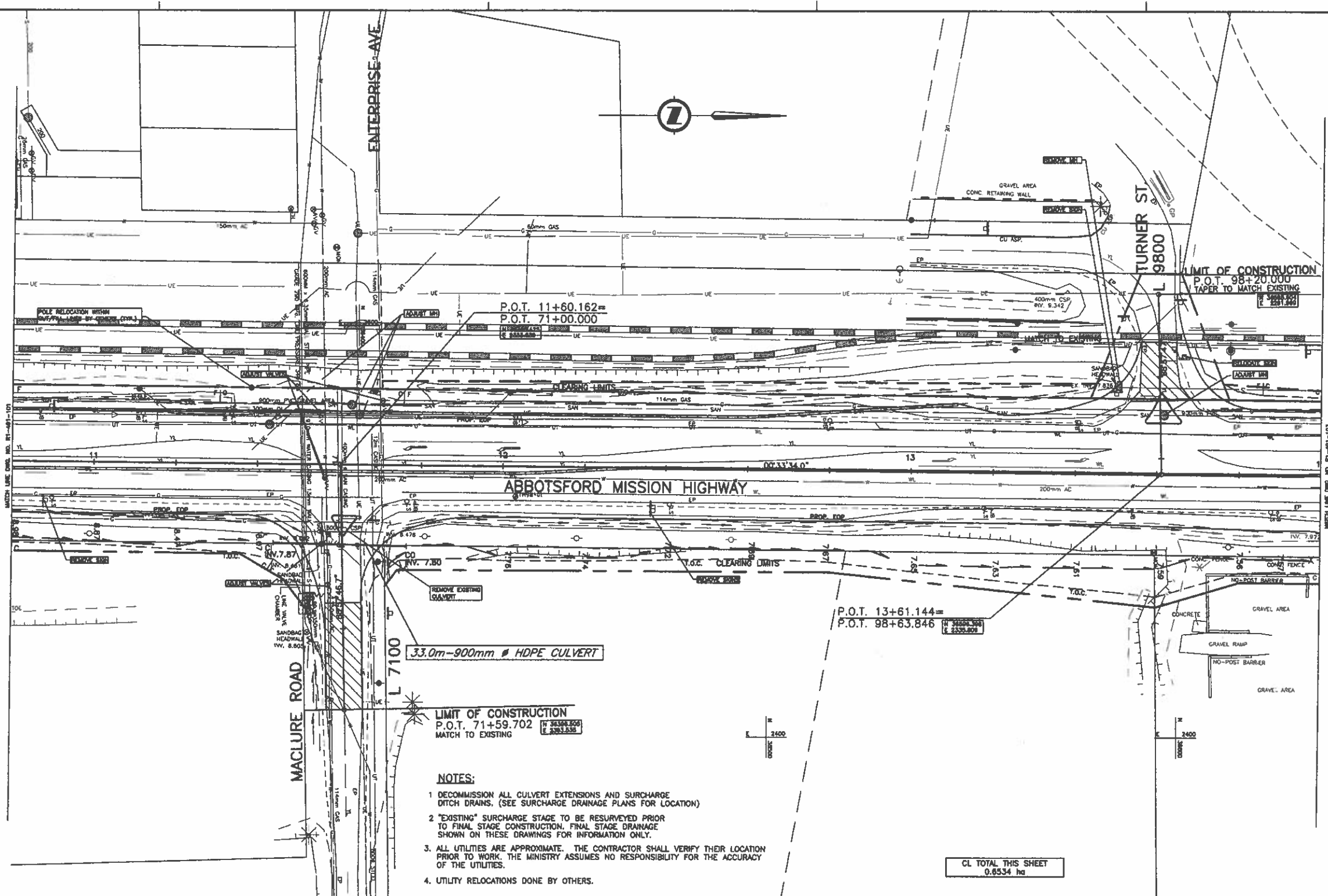
DESIGNED: AT	DATE: JUN/08
CHECKED: MCB	DATE: JUN/08
DRAWN: BE	DATE: JUN/08
REVIEWED: SW	DATE: MAR/08
SENIOR DESIGNER: <i>[Signature]</i>	DATE: MAR 10 2008
FILE No. 11313	PROJECT No. 11313-0001
REV. 1	DRAWING No. R1-491-101

REVISIONS

CANCEL PRINTS BEARING PREVIOUS LETTER

FILE: 1437M101

UPDATE: MAR 10 2008



LIMIT OF CONSTRUCTION
 P.O.T. 71+59.702
 MATCH TO EXISTING

33.0m-900mm ϕ HDPE CULVERT

P.O.T. 13+61.144=
 P.O.T. 98+63.846

LIMIT OF CONSTRUCTION
 P.O.T. 98+20.000
 TAPER TO MATCH EXISTING

- NOTES:**
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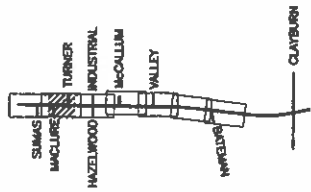
FOR LANE AND GEOMETRICS
 SEE DWG No. R1-491-402

FOR SIGNING AND PAVEMENT MARKINGS
 SEE DWG No. R1-491-502

FOR SPOT ELEVATIONS
 SEE DWG No. R1-491-701

CL TOTAL THIS SHEET
 0.6534 ha

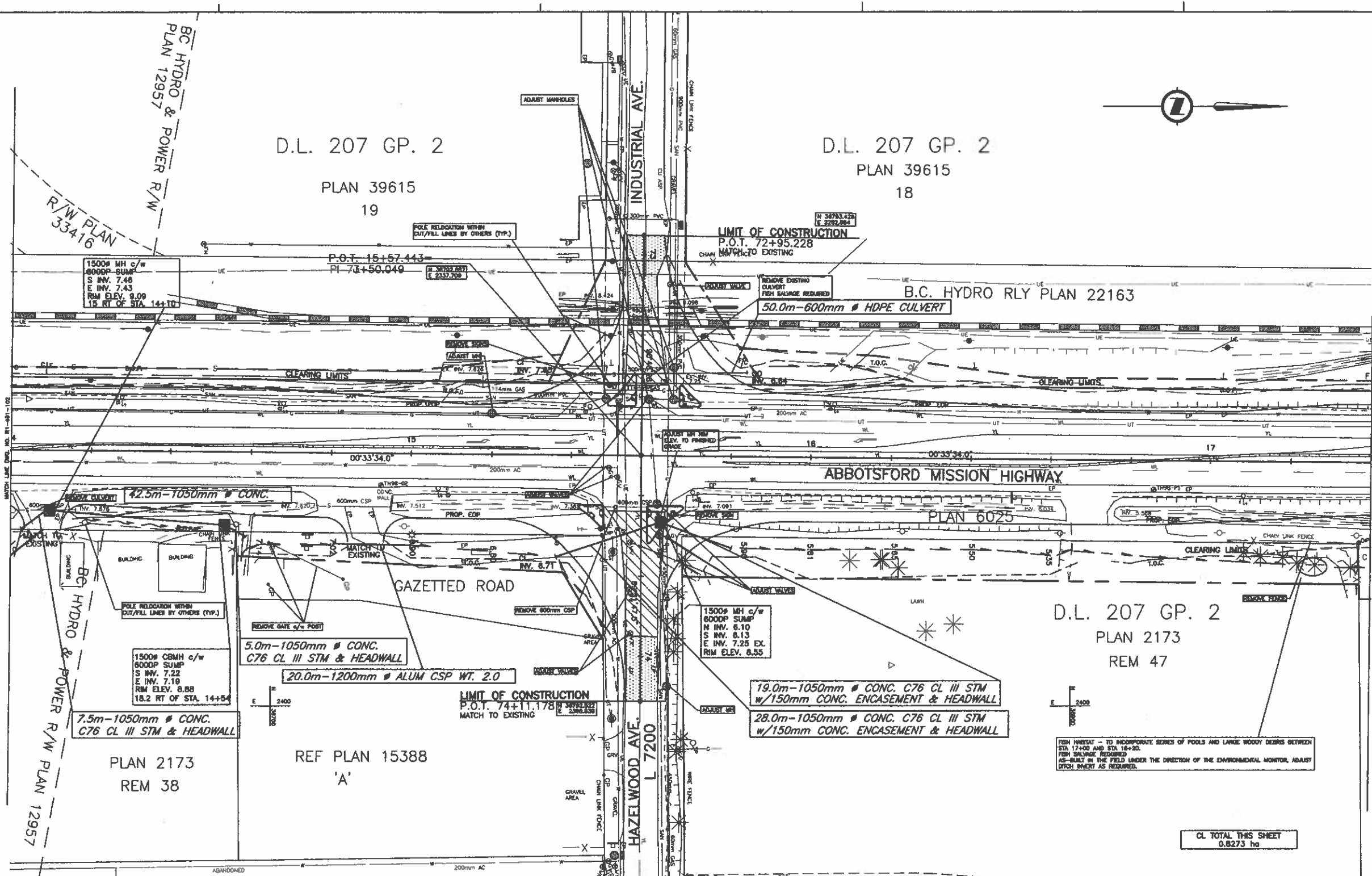
FILE: 1437M102



1405 WEST GEORGIA STREET, VANCOUVER, BC V6B 2T3 TEL: (604) 683-8381		MINISTRY OF TRANSPORTATION HIGHWAY DESIGN AND SURVEY ENGINEERING SOUTH COAST REGION	
SCALE 0 1:500 25		DESIGNED: AT DATE: JUN/08 CHECKED: MCB DATE: JUN/08 DRAWN: DS DATE: JUN/08 REVIEWED: SW DATE: MAR/09	
DRAINAGE AND CONSTRUCTION DETAILS MISSION-ABBOTSFORD HIGHWAY No. 11 SUMAS WAY TO CLAYBURN ROAD STA. 10+80.000 TO STA. 14+00.000		SENIOR DESIGNER: <i>[Signature]</i> DATE: MAR 10 2008	
REVISIONS		FILE No. 11313 PROJECT No. 11313-0001 REC. 1 DRAWING No. R1-491-102	

CANCEL PRINTS BEARING PREVIOUS LETTER

UPDATE: MAR 10, 2008



D.L. 207 GP. 2
PLAN 2173
REM 47

FISH HABITAT - TO INCORPORATE SERIES OF POOLS AND LARGE WOODY DEBRIS BETWEEN STA. 17+40.00 AND STA. 18+20.00. FISH SALVAGE REQUIRED AS-BUILT IN THE FIELD UNDER THE DIRECTION OF THE ENVIRONMENTAL MONITOR, ADJUST DITCH INVERT AS REQUIRED.

CL TOTAL THIS SHEET
0.6273 ha

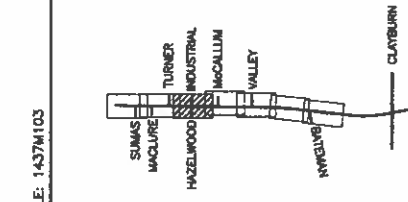
NOTES:

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4. UTILITY RELOCATIONS DONE BY OTHERS.

FOR LANING AND GEOMETRICS
SEE DWG No. R1-491-403

FOR SIGNING AND PAVEMENT MARKINGS
SEE DWG No. R1-491-503

FOR SPOT ELEVATIONS
SEE DWG No. R1-491-702



NDIA Consultants Ltd.
1400 WEST GEORGE STREET, VANCOUVER, BC V6Z 2T3 TEL: (604) 685-6391

SCALE 0 1:500 25

DESIGNED AT DATE JUN/08
CHECKED HCE DATE JUN/08
DRAWN EB DATE JUN/08
REVIEWED JW DATE MAY/08

Rev	Date	Description	Signature

REVISIONS

MINISTRY OF TRANSPORTATION
HIGHWAY DESIGN AND SURVEY ENGINEERING
SOUTH COAST REGION

DRAINAGE AND CONSTRUCTION DETAILS
MISSION-ABBOTSFORD HIGHWAY No. 11
SUMAS WAY TO CLAYBURN ROAD
STA. 14+00.00 TO STA. 17+40.000

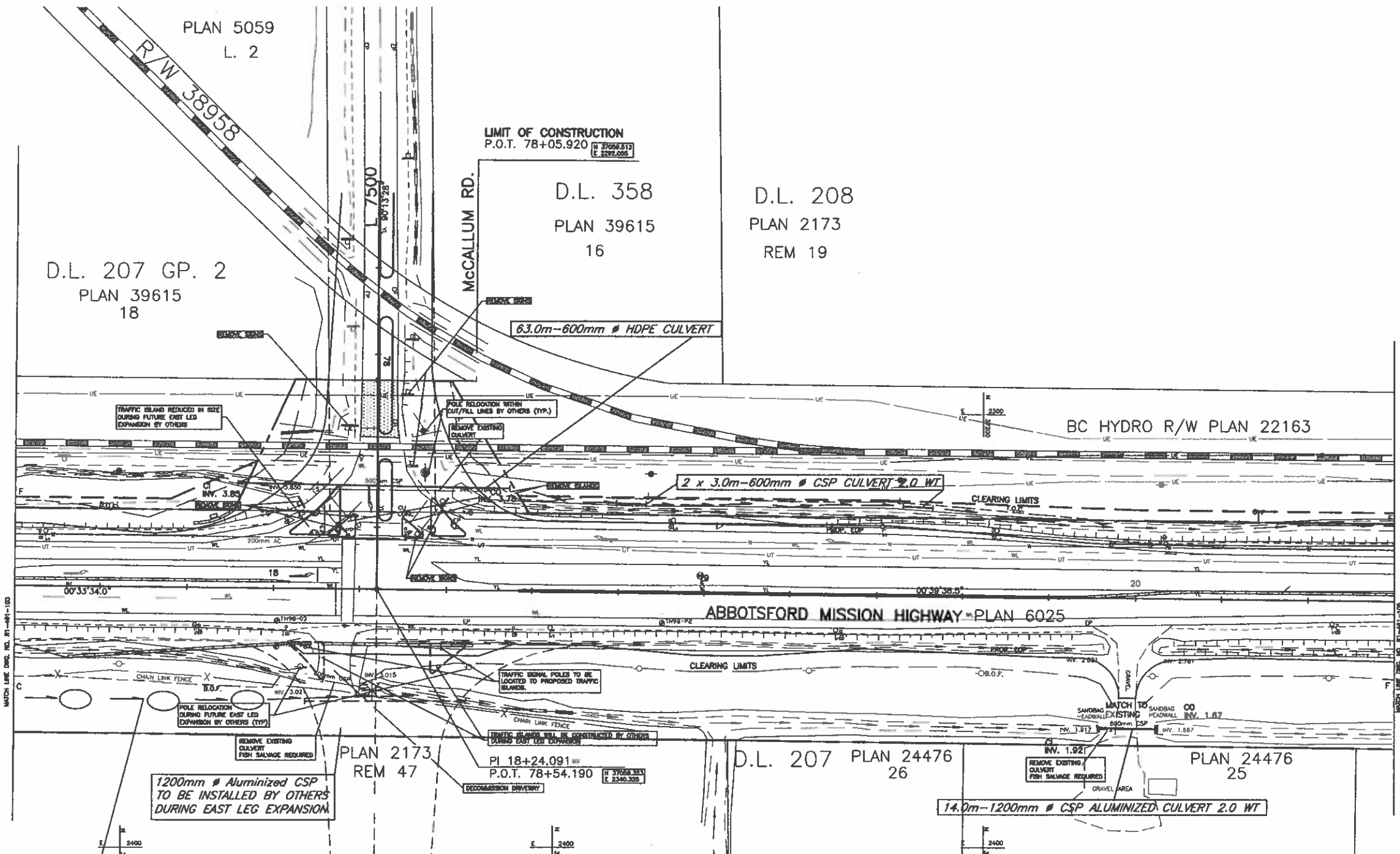
SENIOR DESIGNER: *[Signature]* DATE: MAR. 10 2008

FILE No.	PROJECT No.	REV.	DRAWING No.
11313	11313-0001	1	R1-491-103

CANCEL PRINTS BEARING PREVIOUS LETTER

FILE: 1437M103

UPDATE: MAR 10, 2008



FISH HABITAT - TO INCORPORATE SERIES OF POOLS AND LARGE WOODY DEBRIS BETWEEN STA 17+00 AND STA 18+20.
 AS-BUILT IN THE FIELD UNDER THE DIRECTION OF THE ENVIRONMENTAL MONITOR, ADJUST DITCH SPACING AS REQUIRED.

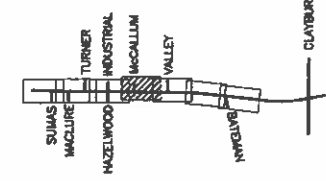
NOTES:

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FOR LANING AND GEOMETRICS
 SEE DWG No. R1-491-404

FOR SIGNING AND PAVEMENT MARKINGS
 SEE DWG No. R1-491-504

FOR SPOT ELEVATIONS
 SEE DWG No. R1-491-702



NDIA Consultants Ltd.
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MINISTRY OF TRANSPORTATION
 HIGHWAY DESIGN AND SURVEY ENGINEERING
 SOUTH COAST REGION

SCALE 0 1:500 25
 DESIGNED AT DATE JAN/08
 CHECKED MGS DATE JAN/08
 DRAWN DS DATE JAN/08
 REVIEWED SW DATE MAR/08

DRAINAGE AND CONSTRUCTION DETAILS
 MISSION-ABBOTSFORD HIGHWAY No. 11
 SUMAS WAY TO CLAYBURN ROAD
 STA. 17+40.00 TO STA. 20+60.000

Rev	Date	Description	Signature

SENIOR DESIGNER: *[Signature]* DATE: MAR 10 2008

REVISIONS

FILE No.	PROJECT No.	REV.	DRAWING No.
11313	11313-0001	1	R1-491-104

FILE No.	PROJECT No.	REV.	DRAWING No.
11313	11313-0001	1	R1-491-104

CANCEL PRINTS BEARING PREVIOUS LETTER

FILE: 1437M104

UPDATE: 1 MAR 10 2008

D.L. 208
PLAN 2173
REM 19

D.L. 208
PLAN 2173
7

42.0m - 4370 x 2870mm
SPCSP PIPE ARCH CULVERT
(SEE DWG R1-491-306, -308,
R1-491-309 FOR DETAILS)
FISH SALVAGE REQUIRED

FOR DECOMMISSION
OF THE EXISTING
CULVERT SEE NOTE 3
AND DWG. R1-491-307

LIMIT OF CONSTRUCTION
B.C. 80+64.922
MATCH TO EXISTING

R 700 Lt
Δ 3'48'42"
Δc 3'48'42"
A.D. 23.293
Arc 46.567
Ee 0.387

LIMIT OF PAVEMENT
RECLAMATION
STA 22+00.000

55.0m-600mm # HDPE CULVERT

BC HYDRO RLY PLAN 22163

EXIST. 2-1820# W.S. CULVERTS (OUTSIDE)
1-1830# S. CULVERT (CENTRE)

ABBOTSFORD MISSION HIGHWAY

PLAN 6025

PLAN 2173
REM 20

D.L. 208
PLAN 2173
REM 6

P.O.T. 21+58.486=
P.O.T. 81+65.911

27.0m-200mm # HDPE DR 25

INSTALL EXPANDED POLYSTYRENE
FILL (EPS) AFTER SURCHARGE
STAGE SEE DWG. R1-396-307

10m x 50m x 2m EPS FILL
(1m COVER ON TOP & SIDES)

CL TOTAL THIS SHEET
0.8553 ha

CITY OF
ABBOTSFORD

FOR LANING AND GEOMETRICS
SEE DWG No. R1-491-405

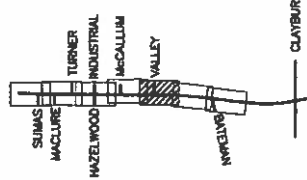
FOR SIGNING AND PAVEMENT MARKINGS
SEE DWG No. R1-491-505

FOR SPOT ELEVATIONS
SEE DWG No. R1-491-703

C CB Dwg No. SP582-02
2.95m Rt. of Sta. 21+69
Grate Elev. 4.920
Inv. 200 # CSP South 3.42

NOTES:

- 1 DECOMMISSION ALL CULVERT EXTENSIONS AND SURCHARGE DITCH DRAINS. (SEE SURCHARGE DRAINAGE PLANS FOR LOCATION)
- 2 "EXISTING" SURCHARGE STAGE TO BE RESURVEYED PRIOR TO FINAL STAGE CONSTRUCTION. FINAL STAGE DRAINAGE SHOWN ON THESE DRAWINGS FOR INFORMATION ONLY.
- 3 EXISTING CULVERT TO BE DECOMMISSIONED AFTER INSTALLATION OF THE NEW SPCSP PIPE ARCH CULVERT AS FOLLOWS:
 - (a) FORM SUFFICIENTLY WATERTIGHT BULKHEADS AT THE INLET AND OUTLET ENDS TO FACILITATE DEWATERING OF THE CULVERT.
 - (b) EXPOSE LOCALLY TOP OF THE CULVERT IN TWO AREAS AS DIRECTED BY THE MINISTRY REP. AND CUT TWO 150mm DIA. HOLES IN CROWN OF THE EXISTING CULVERT.
 - (c) DEWATER CULVERT TO THE SILT DEPOSIT ELEVATION.
 - (d) FILL THE CAVITY ABOVE SILT LEVEL WITH AN APPROVED CELLULAR CONCRETE COMPLYING TO THE FOLLOWING SPECIFICATIONS: UNIT WEIGHT 30 - 45 PCF, MINIMUM COMPRESSIVE STRENGTH 100 PSI @ 24 hrs. AND 300 PSI @ 28 DAYS.
 - (e) REMOVE BULKHEADS AND COVER THE FILL HOLES AT THE CROWN AFTER THE STRENGTH OF THE CELLULAR CONCRETE HAS REACHED 150 PSI.
4. ALL UTILITIES ARE APPROXIMATE. THE CONTRACTOR SHALL VERIFY THEIR LOCATION PRIOR TO WORK. THE MINISTRY ASSUMES NO RESPONSIBILITY FOR THE ACCURACY OF THE UTILITIES.
5. UTILITY RELOCATIONS DONE BY OTHERS.



NDIA Consultants Ltd.
1466 WEST GEORGE STREET, VANCOUVER, BC V6G 2J3 TEL: (604) 685-0301

MINISTRY OF TRANSPORTATION
HIGHWAY DESIGN AND SURVEY ENGINEERING
SOUTH COAST REGION

DRAINAGE AND CONSTRUCTION DETAILS
MISSION-ABBOTSFORD HIGHWAY No. 11
SUMAS WAY TO CLAYBURN ROAD
STA. 20+80.00 TO STA. 23+80.000

DESIGNED	AT	DATE	JUN/08
CHECKED	MCS	DATE	JUN/08
DRAWN	DS	DATE	JUN/08
REVIEWED	SW	DATE	MAY/08

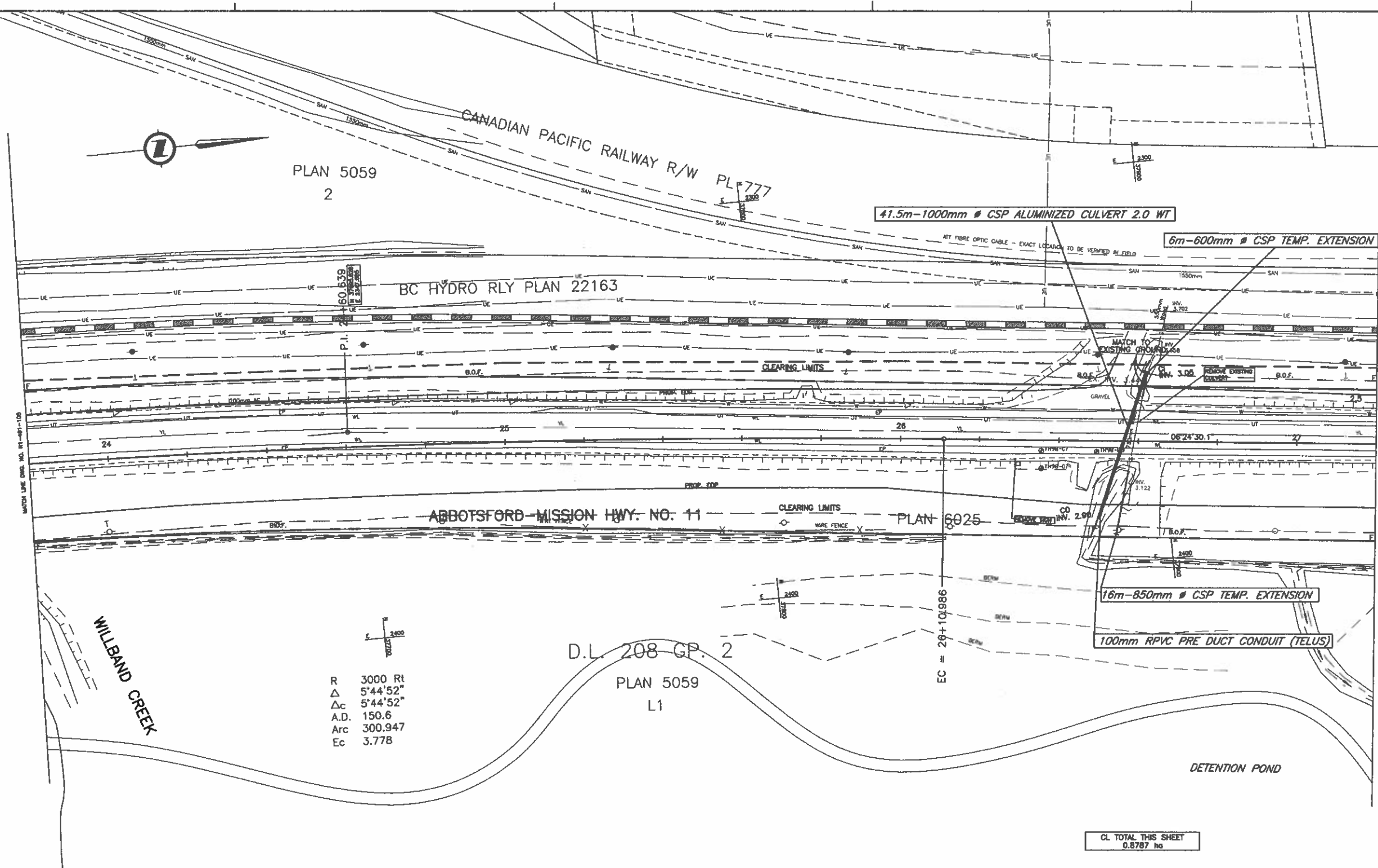
Rev	Date	Description	Signature

SENIOR DESIGNER: *[Signature]* DATE: MARCH 31, 2008

FILE No.	PROJECT No.	REL.	DRAWING No.
11313	11313-0001	1	R1-491-105

REVISIONS

CANCEL PRINTS BEARING PREVIOUS LETTER



PLAN 5059
2

CANADIAN PACIFIC RAILWAY R/W PL 777

BC HYDRO RLY PLAN 22163

41.5m-1000mm # CSP ALUMINIZED CULVERT 2.0 WT

6m-600mm # CSP TEMP. EXTENSION

ABBOTSFORD-MISSION HWY. NO. 11

PLAN 6025

16m-850mm # CSP TEMP. EXTENSION

100mm RPVC PRE DUCT CONDUIT (TELUS)

WILBAND CREEK

D.L. 208 GP. 2

PLAN 5059
L1

R 3000 Rt
Δ 5'44'52"
Δc 5'44'52"
A.D. 150.6
Arc 300.947
Ec 3.778

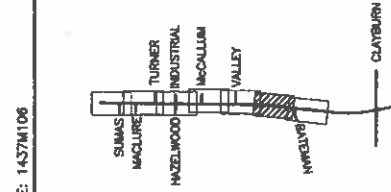
DETENTION POND

CL TOTAL THIS SHEET
0.8767 ha

- NOTES:**
1. DECOMMISSION ALL CULVERT EXTENSIONS AND SURCHARGE DITCH DRAINS. (SEE SURCHARGE DRAINAGE PLANS FOR LOCATION)
 2. "EXISTING" SURCHARGE STAGE TO BE RESURVEYED PRIOR TO FINAL STAGE CONSTRUCTION. FINAL STAGE DRAINAGE SHOWN ON THESE DRAWINGS FOR INFORMATION ONLY.
 3. ALL UTILITIES ARE APPROXIMATE. THE CONTRACTOR SHALL VERIFY THEIR LOCATION PRIOR TO WORK. THE MINISTRY ASSUMES NO RESPONSIBILITY FOR THE ACCURACY OF THE UTILITIES.
 4. UTILITY RELOCATIONS DONE BY OTHERS.

FOR LANING AND GEOMETRICS
SEE DWG No. R1-491-406

FOR SIGNING AND PAVEMENT MARKINGS
SEE DWG No. R1-491-506



NDLEA Consultants Ltd.
1405 WEST GEORGIA STREET, VANCOUVER, BC V6E 2Z3 TEL: (604) 685-8311

SCALE 0 1:500 25

DESIGNED	AT	DATE	JAN/08
CHECKED	MSR	DATE	JAN/08
DRAWN	ES	DATE	JAN/08
REVIEWED	SM	DATE	MAR/08

Rev	Date	Description	Signature

REVISIONS

MINISTRY OF TRANSPORTATION
HIGHWAY DESIGN AND SURVEY ENGINEERING
SOUTH COAST REGION

DRAINAGE AND CONSTRUCTION DETAILS
MISSION-ABBOTSFORD HIGHWAY No. 11
SUMAS WAY TO CLAYBURN ROAD
STA. 23+80.00 TO STA. 27+20.000

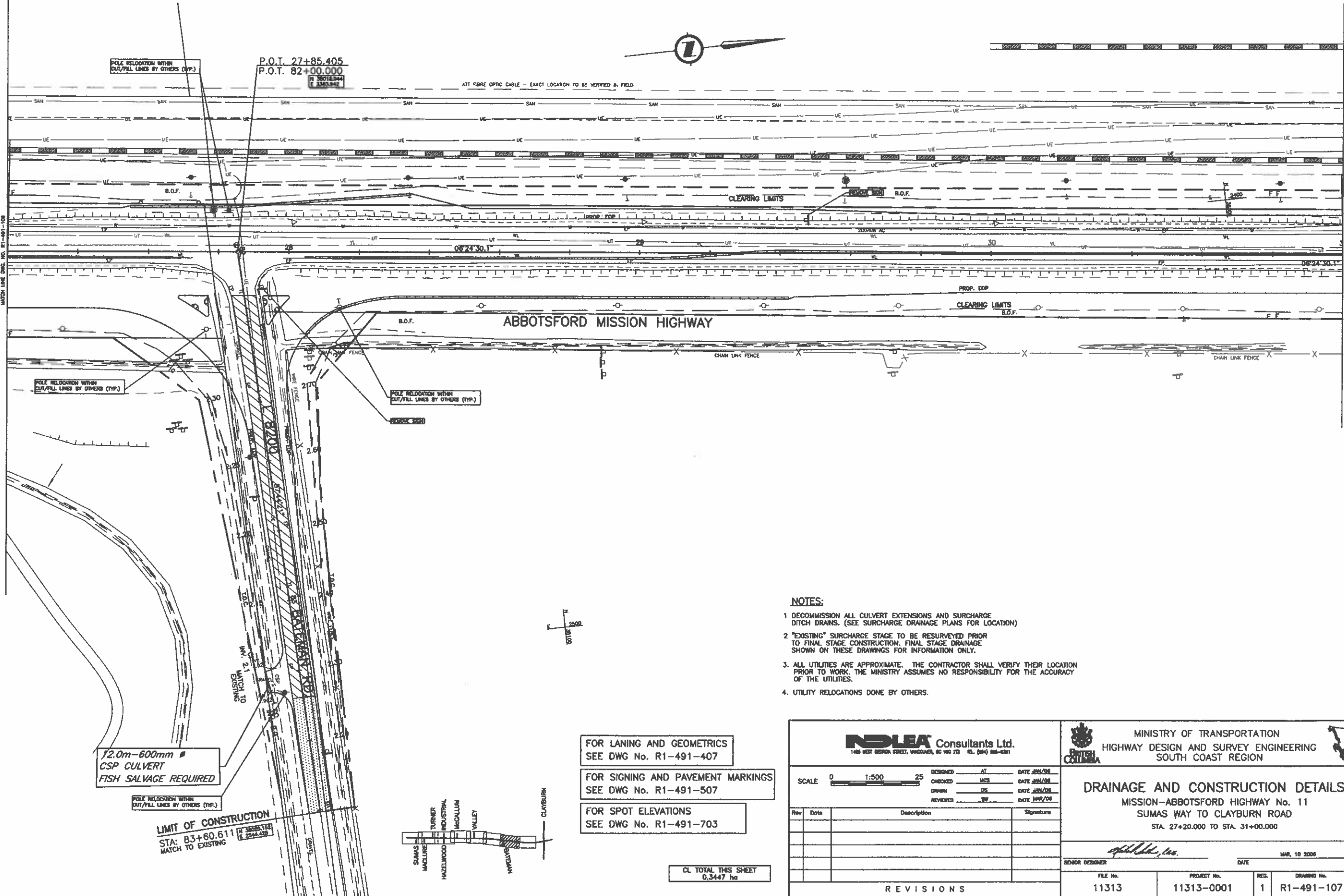
SENIOR DESIGNER: *[Signature]* DATE: MAR 10 2008

FILE No.	PROJECT No.	REL.	DRAWING No.
11313	11313-0001	1	R1-491-106

FILE: 143741106

UPDATE: MAR 10, 2008

CANCEL PRINTS BEARING PREVIOUS LETTER



P.O.T. 27+85.405
P.O.T. 82+00.000

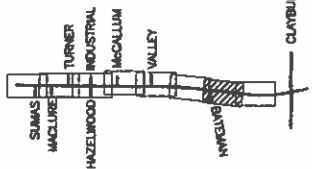
ATT FIBRE OPTIC CABLE - EXACT LOCATION TO BE VERIFIED IN FIELD



ABBOTSFORD MISSION HIGHWAY

12.0m-600mm CSP CULVERT
FISH SALVAGE REQUIRED

LIMIT OF CONSTRUCTION
STA: 83+60.611
MATCH TO EXISTING



NOTES:

1. DECOMMISSION ALL CULVERT EXTENSIONS AND SURCHARGE DITCH DRAINS. (SEE SURCHARGE DRAINAGE PLANS FOR LOCATION)
2. "EXISTING" SURCHARGE STAGE TO BE RESURVEYED PRIOR TO FINAL STAGE CONSTRUCTION. FINAL STAGE DRAINAGE SHOWN ON THESE DRAWINGS FOR INFORMATION ONLY.
3. ALL UTILITIES ARE APPROXIMATE. THE CONTRACTOR SHALL VERIFY THEIR LOCATION PRIOR TO WORK. THE MINISTRY ASSUMES NO RESPONSIBILITY FOR THE ACCURACY OF THE UTILITIES.
4. UTILITY RELOCATIONS DONE BY OTHERS.

FOR LANING AND GEOMETRICS
SEE DWG No. R1-491-407

FOR SIGNING AND PAVEMENT MARKINGS
SEE DWG No. R1-491-507

FOR SPOT ELEVATIONS
SEE DWG No. R1-491-703

CL TOTAL THIS SHEET
0.3447 ha

NDIA Consultants Ltd.
146 WEST GEORGE STREET, WINNIPEG, BC V6B 2T2 TEL: (504) 686-8301

SCALE: 0 1:500 25

DESIGNED	AT	DATE	JUN/08
CHECKED	MCS	DATE	JUN/08
DRAWN	DS	DATE	JUN/08
REVIEWED	SW	DATE	MAR/08

Rev	Date	Description	Signature

REVISIONS

MINISTRY OF TRANSPORTATION
HIGHWAY DESIGN AND SURVEY ENGINEERING
SOUTH COAST REGION

DRAINAGE AND CONSTRUCTION DETAILS
MISSION-ABBOTSFORD HIGHWAY No. 11
SUMAS WAY TO CLAYBURN ROAD
STA. 27+20.000 TO STA. 31+00.000

Senior Designer: *[Signature]* DATE: MAR 10 2008

FILE No.	PROJECT No.	REV.	DRAWING No.
11313	11313-0001	1	R1-491-107

FILE: 1437M107

UPDATE: MAR 10, 2008

CANCEL PRINTS BEARING PREVIOUS LETTER

PLAN 4298
1



CANADIAN PACIFIC RAILWAY R/W PL 777

6.0m-800mm # CSP TEMP. EXTENSION

R 1370 LI
Δc 15°25'48"
A.D. 238.133
Arc 368.947
Es 16.249

CANADIAN PACIFIC RAILWAY R/W
SOUTHERN RAILWAY OF B.C. R/W
RIVERSIDE STREET PARCEL
RIVERSIDE STREET
PLAN 22163
PLAN 6566

SOUTHERN RAILWAY OF B.C. R/W

PLAN 22163

PLAN 6566

33.5m-900mm # HDPE CULVERT

8.0m-1200mm # CSP TEMP. EXTENSION

D.L. 202
PLAN 4298
REM 5

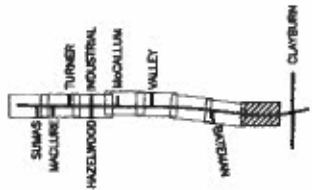
358
RESERVE

NOTES:

1. DECOMMISSION ALL CULVERT EXTENSIONS AND SURCHARGE DITCH DRAINS. (SEE SURCHARGE DRAINAGE PLANS FOR LOCATION)
2. "EXISTING" SURCHARGE STAGE TO BE RESURVEYED PRIOR TO FINAL STAGE CONSTRUCTION. FINAL STAGE DRAINAGE SHOWN ON THESE DRAWINGS FOR INFORMATION ONLY.
3. ALL UTILITIES ARE APPROXIMATE. THE CONTRACTOR SHALL VERIFY THEIR LOCATION PRIOR TO WORK. THE MINISTRY ASSUMES NO RESPONSIBILITY FOR THE ACCURACY OF THE UTILITIES.
4. UTILITY RELOCATIONS DONE BY OTHERS.

FOR LANING AND GEOMETRICS
SEE DWG No. R1-491-408

FOR SIGNING AND PAVEMENT MARKINGS
SEE DWG No. R1-491-509



CL TOTAL THIS SHEET
1.136 ha

NDIA Consultants Ltd.
140 WEST GEORGE STREET, VANCOUVER, BC V6B 2E3 TEL: (604) 681-6511

SCALE: 0 1:500 25

DESIGNED	AT	DATE	JAN/08
CHECKED	MCS	DATE	JAN/08
DRAWN	SR	DATE	JAN/08
REVIEWED	SR	DATE	MAR/08

Rev	Date	Description	Signature

REVISIONS

MINISTRY OF TRANSPORTATION
HIGHWAY DESIGN AND SURVEY ENGINEERING
SOUTH COAST REGION

DRAINAGE AND CONSTRUCTION DETAILS
MISSION-ABBOTSFORD HIGHWAY No. 11
SUMAS WAY TO CLAYBURN ROAD
STA. 31+00.000 TO STA. 33+54.741

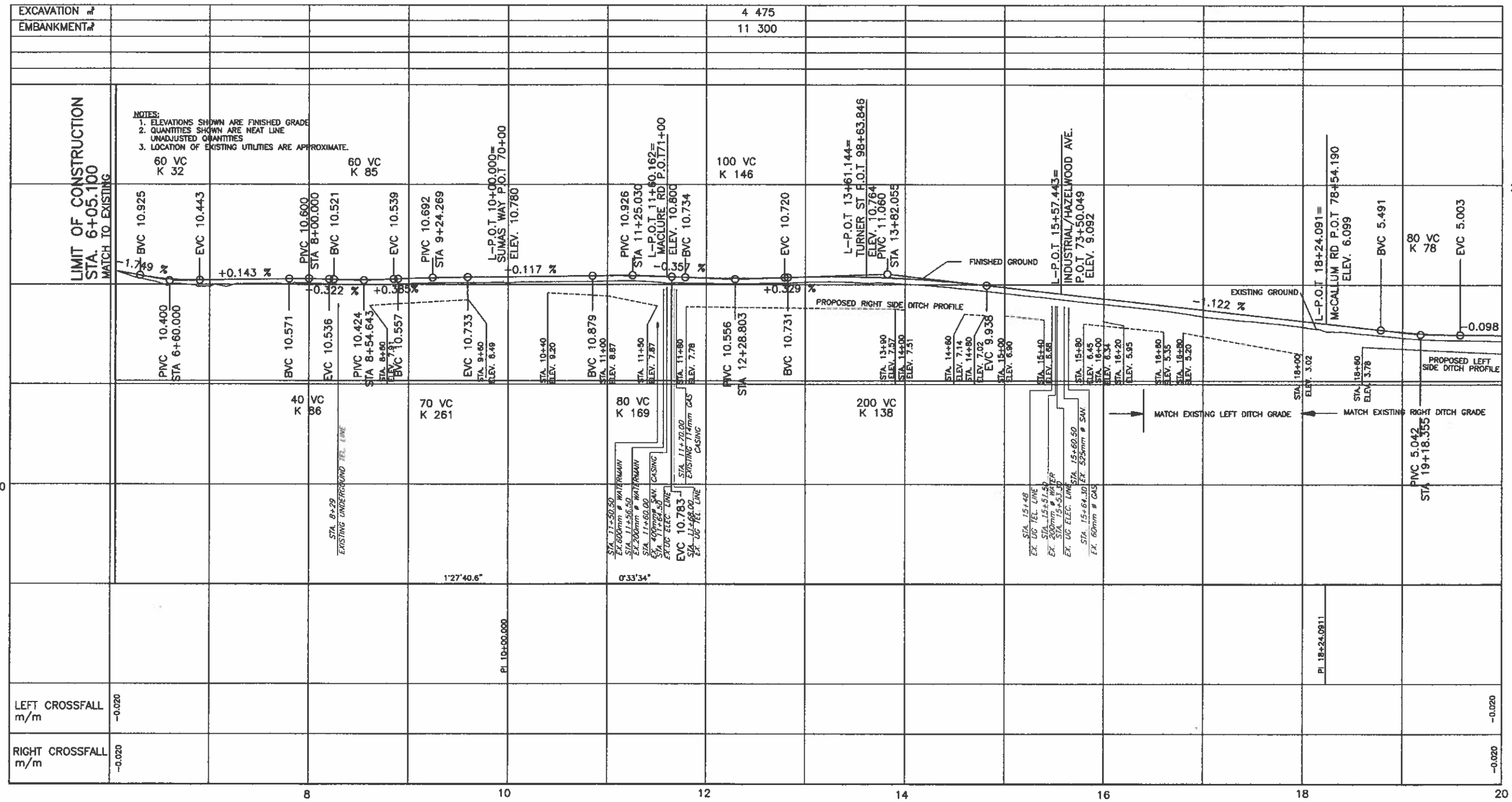
Senior Designer: *[Signature]* DATE: MAR 31 2008

FILE No.	PROJECT No.	REV.	DRAWING No.
11313	11313-0001	1	R1-491-108

CANCEL PRINTS BEARING PREVIOUS LETTER

FILE: 1437M108

UPDATE: MAR 31, 2008



DESIGN SPEED 80 km/h

L-LINE PROFILE (HIGHWAY 11)

INDIA Consultants Ltd.
 1405 WEST GEORGIA STREET, VANCOUVER, BC V6Z 2E3 TEL. (604) 688-3301

MINISTRY OF TRANSPORTATION
 HIGHWAY DESIGN AND SURVEY ENGINEERING
 SOUTH COAST REGION

SCALE	0	HORIZ. 1:2000	100	DESIGNED	AT/DB	DATE	JAN/08
	0	VER. 1:200	10	CHECKED	MCS	DATE	JAN/08
				DRAWN	BR	DATE	JAN/08
				REVIEWED	BR	DATE	MAR/08

Rev	Date	Description	Signature

PROFILE
 MISSION-ABBOTSFORD HIGHWAY No. 11
 SUMAS WAY TO CLAYBURN ROAD
 STA. 6+05.100 TO STA. 20+00.000

SENIOR DESIGNER: *[Signature]* DATE: MAR 31 2008

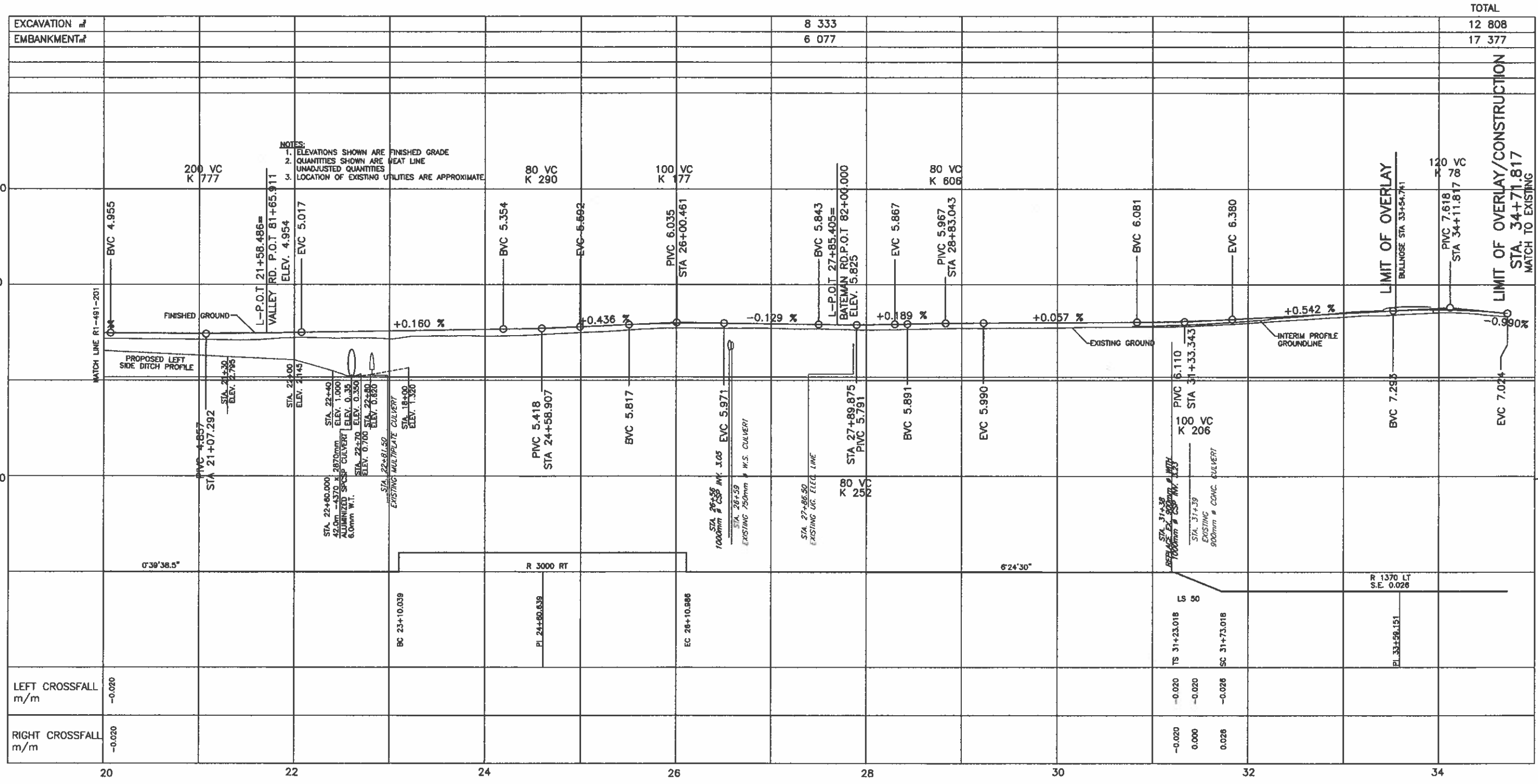
FILE No. 11313 PROJECT No. 11313-0001 REA. 1 DRAWING No. R1-491-201

REVISIONS	

CANCEL PRINTS BEARING PREVIOUS LETTER

FILE: I437M201

UPDATE: MAR 31, 2008



DESIGN SPEED 80 km/h

L-LINE PROFILE (HIGHWAY 11)

1405 WEST GEORGIA STREET, VANCOUVER, BC V6E 2E3 TEL: (604) 685-4301		MINISTRY OF TRANSPORTATION HIGHWAY DESIGN AND SURVEY ENGINEERING SOUTH COAST REGION	
PROFILE MISSION-ABBOTSFORD HIGHWAY No. 11 SUMAS WAY TO CLAYBURN ROAD STA. 20+00.000 TO STA. 32+00.000			
SCALE 0 HORZ. 1:2000 100 0 VER. 1:200 10		DESIGNED: ATZL DATE: 04/2/06 CHECKED: MCS DATE: 04/2/06 DRAWN: DS DATE: 04/2/06 REVISION: SW DATE: 04/2/06	
Rev. Date Description Signature		SENIOR DESIGNER: <i>[Signature]</i> DATE: MAR 31 2006	
REVISIONS		FILE No. 11313	PROJECT No. 11313-0001 REV. 1 DRAWING No. R1-491-202
CANCEL PRINTS BEARING PREVIOUS LETTER			

FILE: 1437M202

UPDATE: MAR 31, 2006

EXCAVATION #	TOTAL				EXCAVATION #	TOTAL				EXCAVATION #	TOTAL			
				173					56					178
EMBANKMENT #				408	EMBANKMENT #				257	EMBANKMENT #				129

70+00	70+50	71+00	71+50	98+00	98+50
15	15	12.5	10	12.5	12.5
10	10	7.5	10	10	10
7.5	7.5	5	7.5	7.5	7.5
5	5	2.5	5	5	5

LEFT CROSSFALL m/m	RIGHT CROSSFALL m/m
0.001	-0.001
-0.005	-0.010
-0.020	-0.020
-0.020	-0.020
MATCH	MATCH
MATCH	MATCH
-0.004	-0.020
MATCH	MATCH
MATCH	MATCH
-0.004	-0.001

NOTES:
 1. ELEVATIONS SHOWN ARE FINISHED GRADE
 2. QUANTITIES SHOWN ARE NEAT LINE UNADJUSTED QUANTITIES
 3. LOCATION OF EXISTING UTILITIES ARE APPROXIMATE.

L7000-LINE PROFILE (SUMAS WAY)

L7100-LINE PROFILE (MACLURE ROAD)

L9800-LINE PROFILE (TURNER ST.)

DESIGN SPEED 50 km/h

140 WEST GEORGIA STREET, VANCOUVER, BC V6E 2E3 TEL: (604) 688-8381

MINISTRY OF TRANSPORTATION
 HIGHWAY DESIGN AND SURVEY ENGINEERING
 SOUTH COAST REGION

PROFILE
 MISSION-ABBOTSFORD HIGHWAY No. 11
 SUMAS WAY TO CLAYBURN ROAD
 SUMAS WAY, MACLURE AND TURNER ST.

SCALE	HORIZ. 1:500 20	VERT. 1:50 2	DESIGNED AT	DATE JUN/08
			CHECKED HCS	DATE JUN/08
			DRAWN JM	DATE JUN/08
			REVIEWED BY	DATE MAR/09

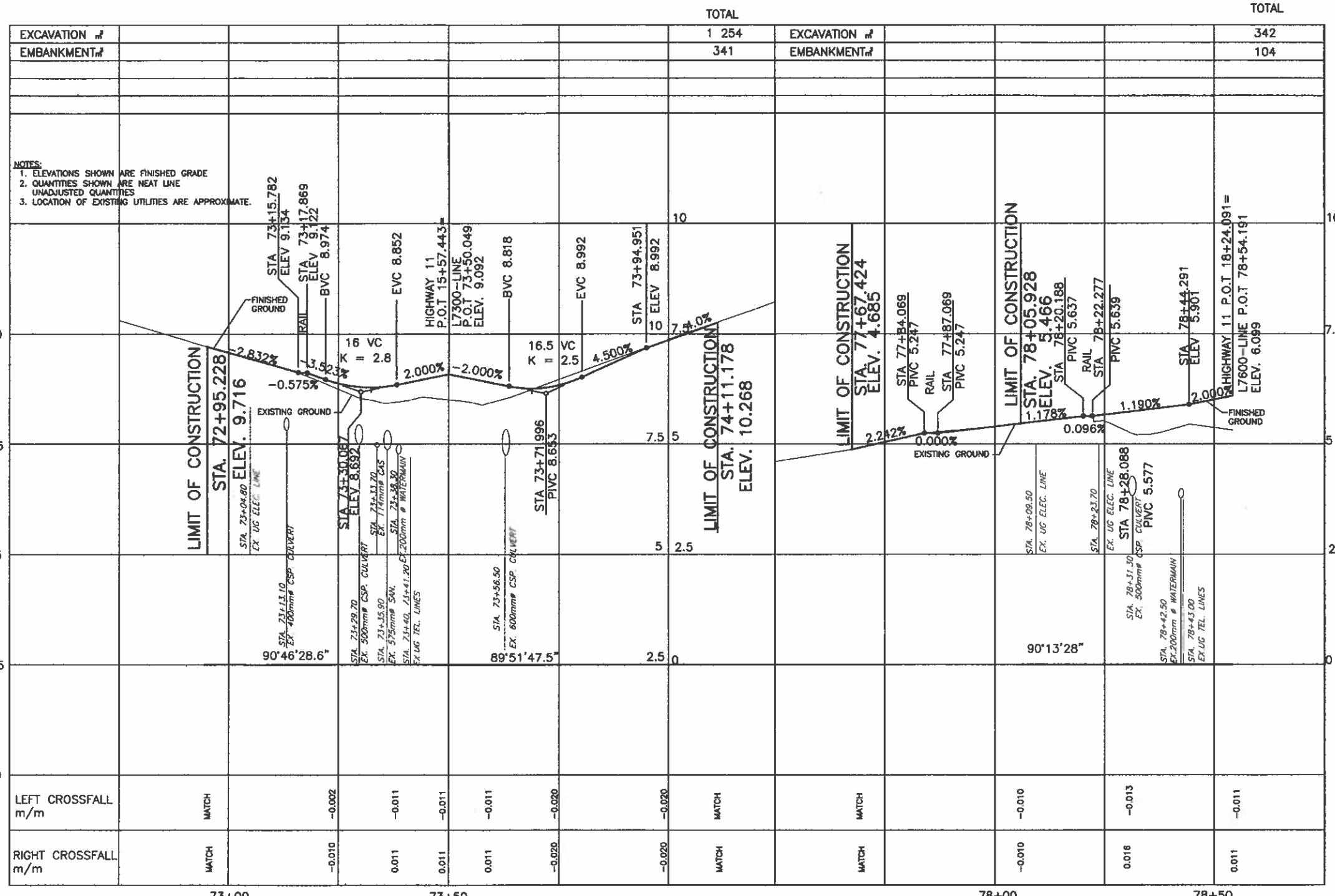
Rev	Date	Description	Signature

SENIOR DESIGNER	DATE	MAR 31 2009
FILE No.	PROJECT No.	REV.
11313	11313-0001	1
DRAWING No.	R1-491-203	

FILE: 14374203

UPDATE: MAR 31, 2009

CANCEL PRINTS BEARING PREVIOUS LETTER



EXCAVATION #	1 254	EXCAVATION #	342
EMBANKMENT #	341	EMBANKMENT #	104

NOTES:
 1. ELEVATIONS SHOWN ARE FINISHED GRADE
 2. QUANTITIES SHOWN ARE NEAT LINE UNADJUSTED QUANTITIES
 3. LOCATION OF EXISTING UTILITIES ARE APPROXIMATE.

LEFT CROSSFALL m/m	MATCH	-0.002	-0.011	-0.011	-0.011	-0.020	MATCH	MATCH	-0.010	-0.013	-0.011
RIGHT CROSSFALL m/m	MATCH	-0.010	0.011	0.011	0.011	-0.020	MATCH	MATCH	-0.010	0.016	0.011

L7200-LINE PROFILE (INDUSTRIAL AVE./HAZELWOOD AVE.)

L7600-LINE PROFILE (McCALLUM ROAD)

DESIGN SPEED 50 km/h

NDIA Consultants Ltd.
145 WEST GEORGIA STREET, VANCOUVER, BC V6C 2T5 TEL: (604) 683-6381

MINISTRY OF TRANSPORTATION
HIGHWAY DESIGN AND SURVEY ENGINEERING
SOUTH COAST REGION

PROFILE
 MISSION-ABBOTSFORD HIGHWAY No. 11
 SUMAS WAY TO CLAYBURN ROAD
 INDUSTRIAL AVE./HAZELWOOD AVE. AND McCALLUM ROAD

SCALE: 0 HORZ. 1:500 20
0 VER. 1:50 2

DESIGNED: AT DATE: JMS/08
 CHECKED: MCE DATE: JMS/08
 DRAWN: SM DATE: JMS/08
 REVIEWED: SM DATE: MAR/08

DATE: MAR 31 2008

Rev	Date	Description	Signature

FILE No. 11313

PROJECT No. 11313-0001

REV. 1

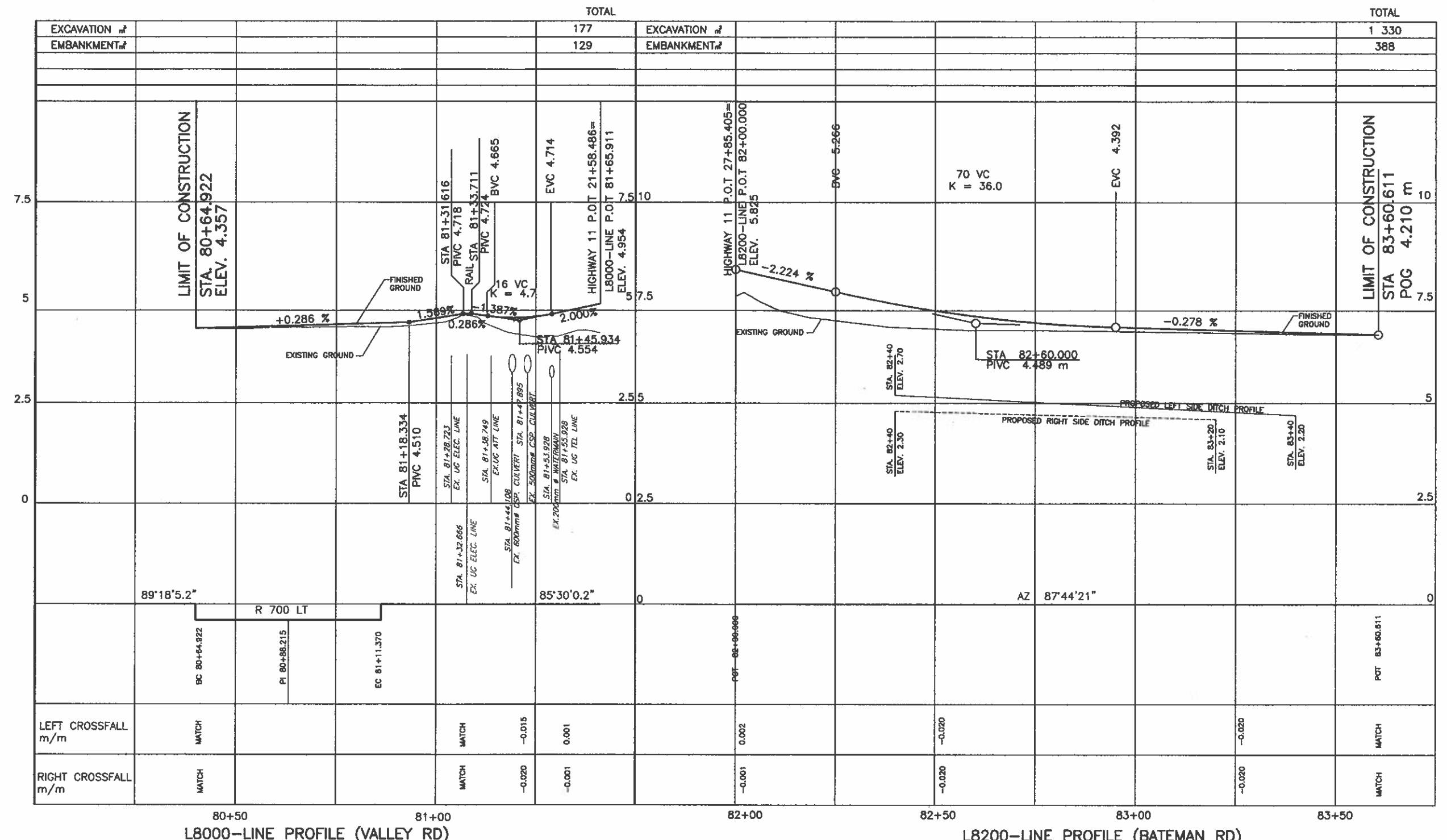
DRAWING No. R1-491-204

REVISIONS

CANCEL PRINTS BEARING PREVIOUS LETTER

FILE: 1437M204

UPDATE: MAR 31, 2008



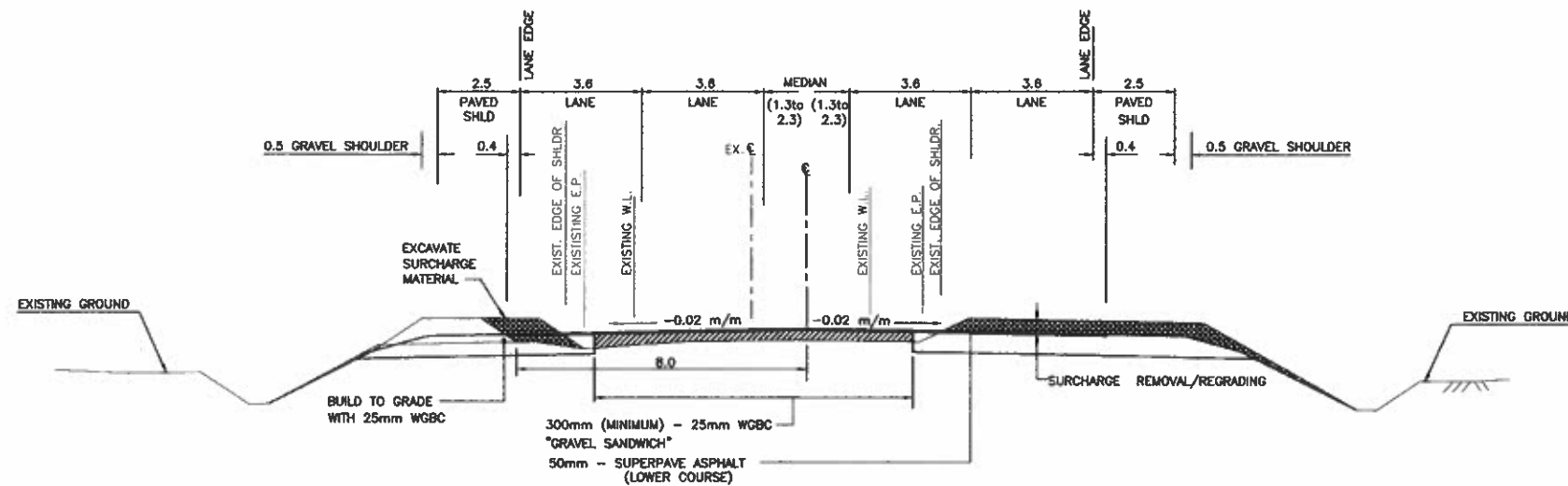
DESIGN SPEED 50 km/h

- NOTES:
- ELEVATIONS SHOWN ARE FINISHED GRADE
 - QUANTITIES SHOWN ARE NEAT LINE
 - LOCATION OF EXISTING UTILITIES ARE APPROXIMATE.

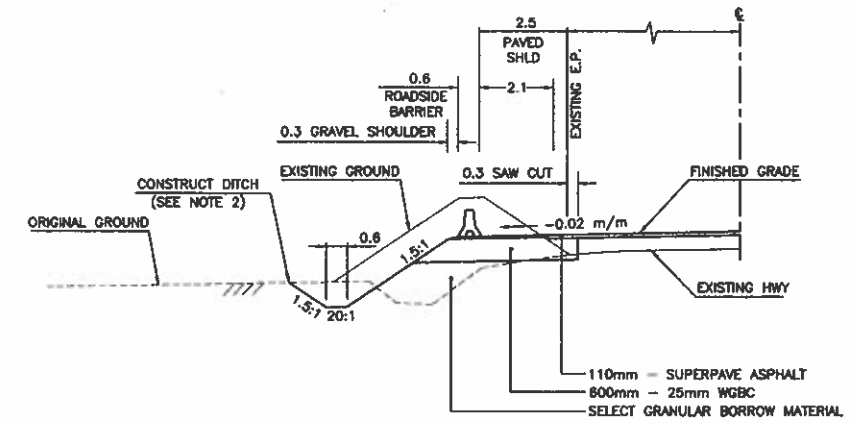
1405 WEST OGDON STREET, VANCOUVER, BC V6B 2G3 TEL: (604) 985-6281		MINISTRY OF TRANSPORTATION HIGHWAY DESIGN AND SURVEY ENGINEERING SOUTH COAST REGION	
PROFILE MISSION-ABBOTSFORD HIGHWAY No. 11 SUMAS WAY TO CLAYBURN ROAD VALLEY RD AND BATEMAN RD			
SENIOR DESIGNER: <i>[Signature]</i>		DATE: MAR 31 2008	
FILE No.	PROJECT No.	REV.	DRAWING No.
11313	11313-0001	1	R1-491-205
REVISIONS			
CANCEL PRINTS BEARING PREVIOUS LETTER			

FILE: 1437M205

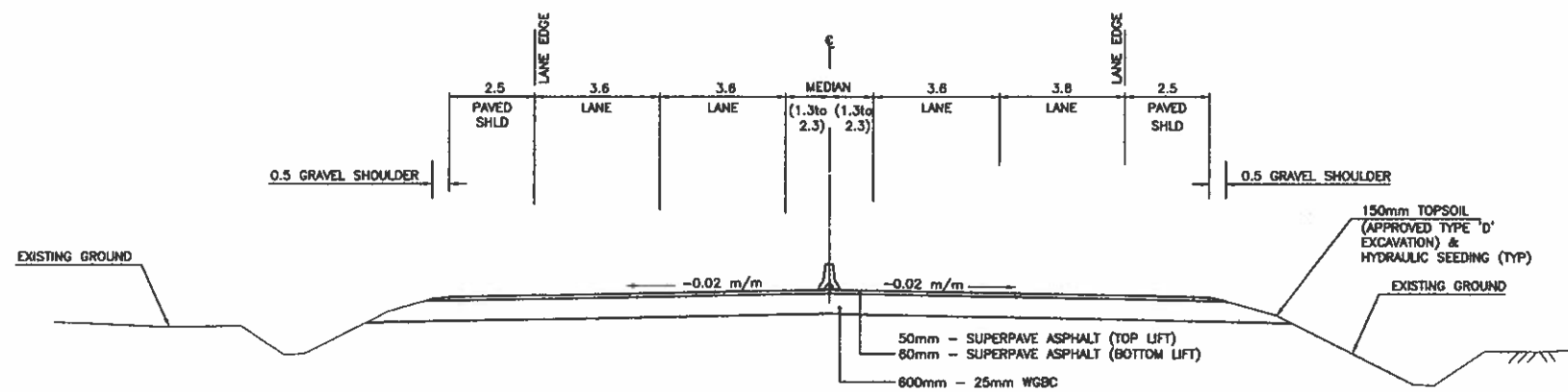
UPDATE: MAR 31, 2008



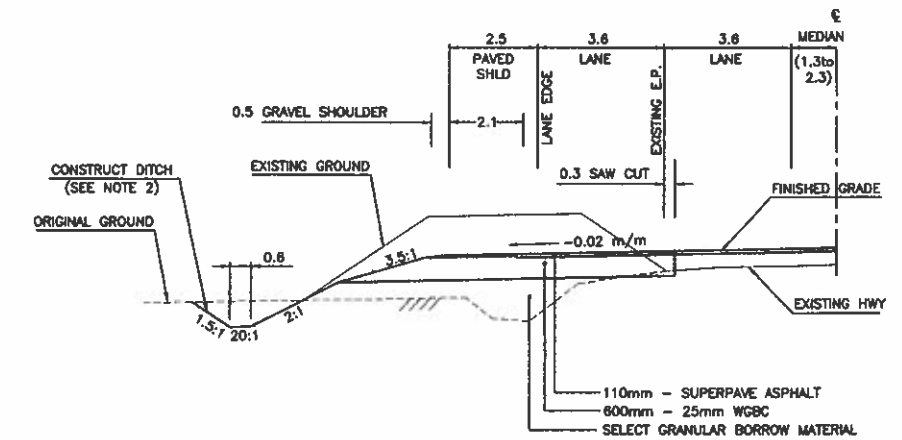
**SUGGESTED INTERMEDIATE STAGE
TYPICAL SECTION - HIGHWAY 11
STA 28+00 - 32+00**



**WIDENING SECTION - NO SURCHARGE - WITH BARRIER
TYPICAL SECTION - HIGHWAY 11**



**FINAL STAGE
TYPICAL SECTION - HIGHWAY 11
STA 6+05 - 22+00**

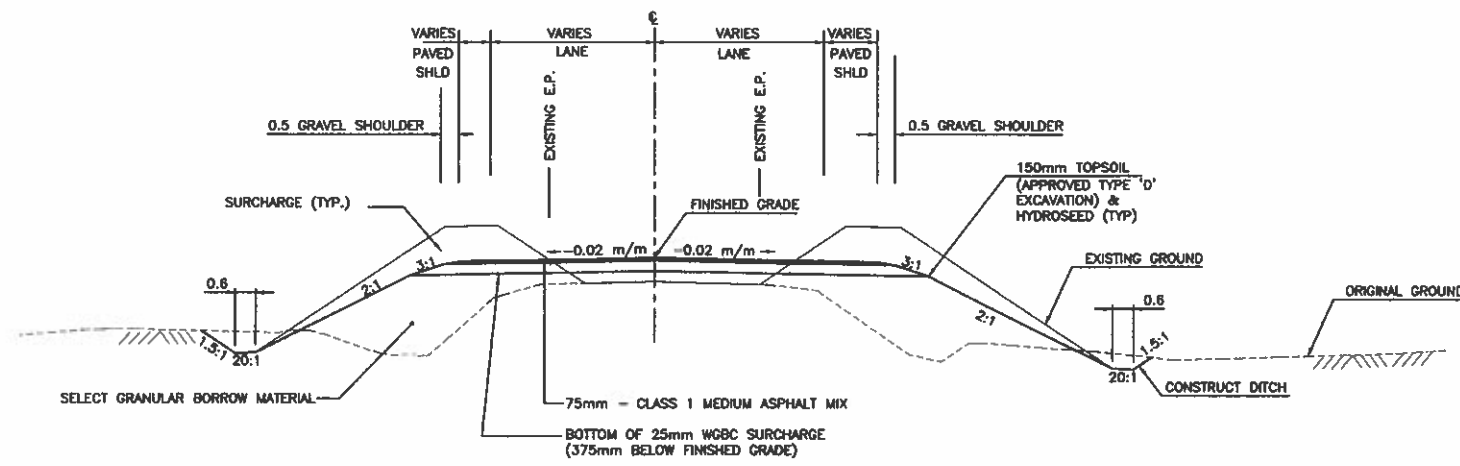


**WIDENING SECTION
TYPICAL SECTION - HIGHWAY 11**

FILE: 1437M301

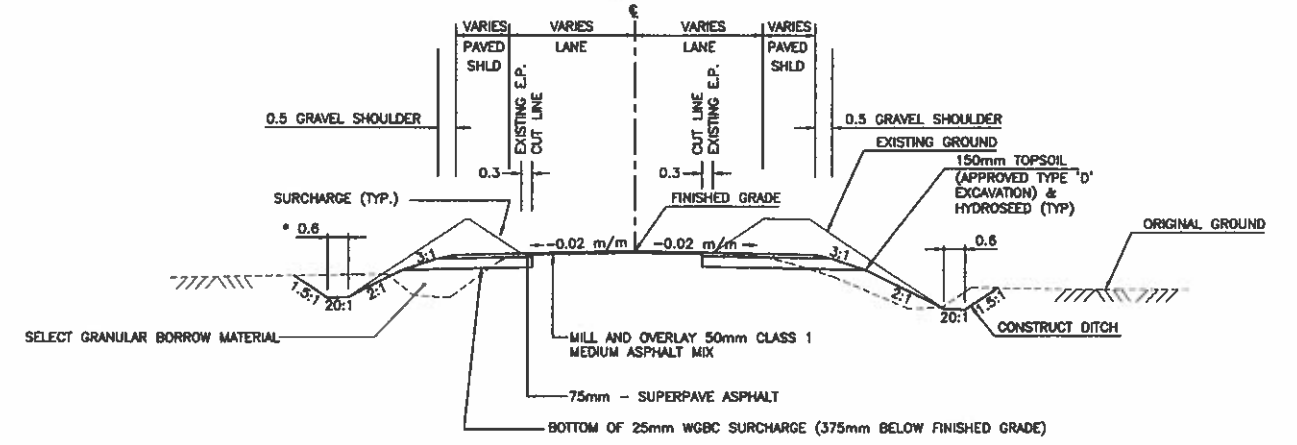
145 WEST GEORGIA STREET, VICTORIA, BC V8V 2T3 TEL: (250) 885-6381		MINISTRY OF TRANSPORTATION HIGHWAY DESIGN AND SURVEY ENGINEERING SOUTH COAST REGION	
SCALE 0 1:100 5		DESIGNED AT DATE JUN/08 CHECKED MCS DATE JUN/08 DRAWN DS/08 DATE JUN/08 REVIEWED SW DATE MAY/08	
TYPICAL SECTIONS MISSION-ABBOTSFORD HIGHWAY No. 11 SUMAS WAY TO CLAYBURN ROAD		SENIOR DESIGNER <i>[Signature]</i> DATE MAR 31 2008	
REVISIONS		FILE No. 11313	PROJECT No. 11313-0001 REL. 1 DRAWING No. R1-491-301
CANCEL PRINTS BEARING PREVIOUS LETTER			

UPDATE: MAR 31, 2008



**TYPICAL OPEN SHOULDER SECTION
MINOR ROADS**

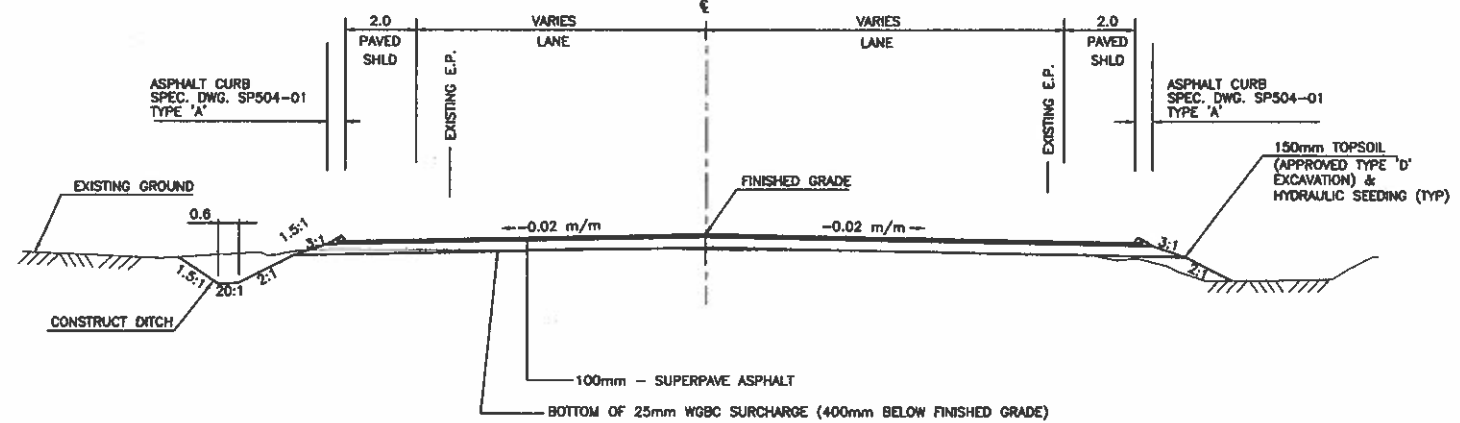
0 1:100 5



**TYPICAL OPEN SHOULDER SECTION
WITH PAVEMENT OVERLAY
MINOR ROADS**

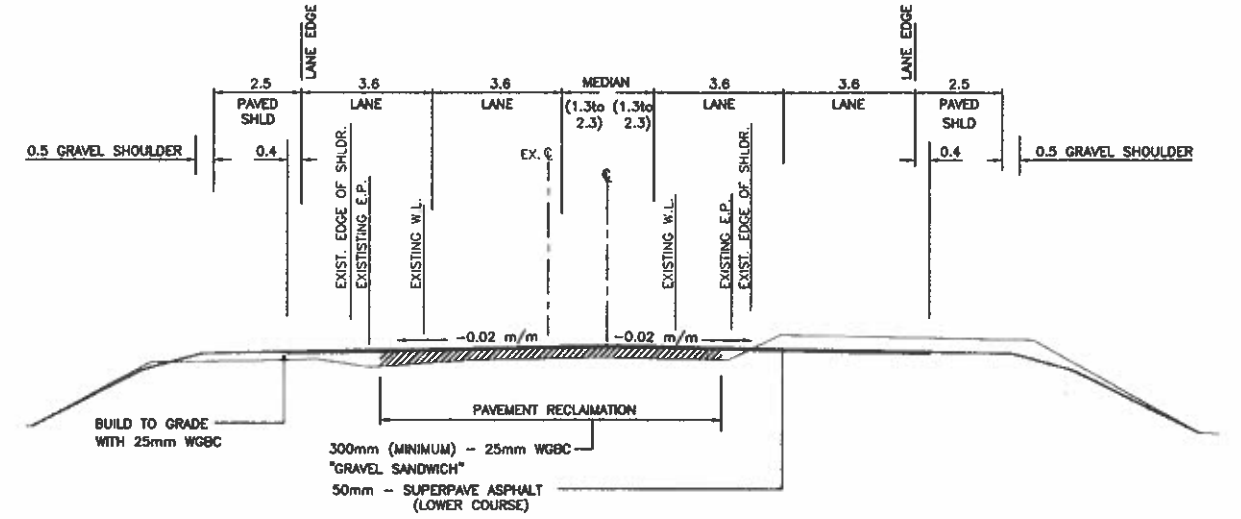
0 1:100 5

* DITCH WIDTH FOR BATEMAN - 1.0m (TYP.)
LEFT SIDE ONLY
STA. 82+40 2.5m
STA. 82+80 2.5m
STA. 82+80 2.0m
STA. 83+00 1.5m



**TYPICAL ASPHALT CURB SECTION
SUMAS WAY**

0 1:100 5



**PAVEMENT RECLAMATION SECTION
STA 22+00 - 32+25**

NDIA Consultants Ltd.
145 WEST GEORGIA STREET, VANCOUVER, BC V6B 2Z5 TEL. (604) 683-6301

MINISTRY OF TRANSPORTATION
HIGHWAY DESIGN AND SURVEY ENGINEERING
SOUTH COAST REGION

SCALE 0 1:100 5
DESIGNED: JL DATE: 4/11/05
CHECKED: WCB DATE: 4/11/05
DRAWN: DS/SL DATE: 4/11/05
REVIEWED: SV DATE: 4/11/05

TYPICAL SECTIONS
MISSION-ABBOTSFORD HIGHWAY No. 11
SUMAS WAY TO CLAYBURN ROAD

Rev	Date	Description	Signature

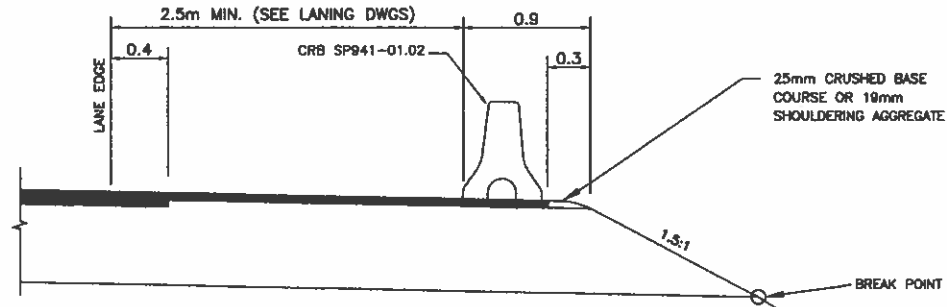
SENIOR DESIGNER: *[Signature]* DATE: MAR 31 2005
FILE No. 11313 PROJECT No. 11313-0001 REV. 1 DRAWING No. R1-491-302

REVISIONS

CANCEL PRINTS BEARING PREVIOUS LETTER

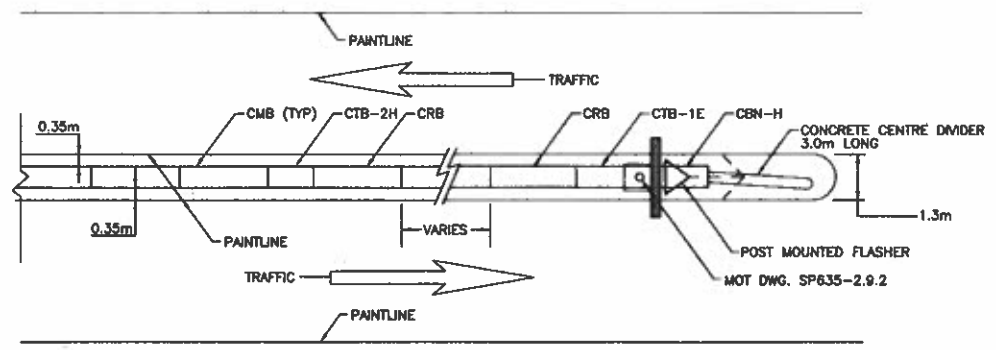
FILE: 81573M302

UPDATE: MAR 31, 2005



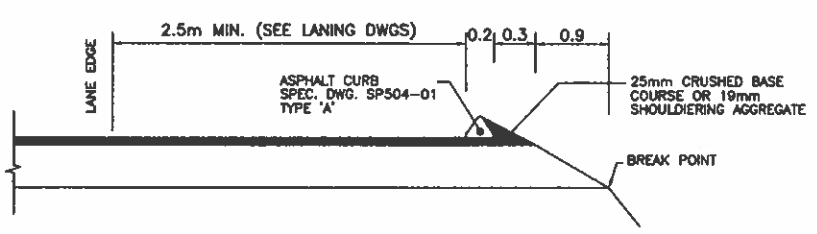
ROADSIDE BARRIER DETAIL

1:25
 * SIDE SLOPE 2:1 EXCEPT
 STA. 27+85 TO STA. 29+43.803 SIDE SLOPE 1.5:1 RL



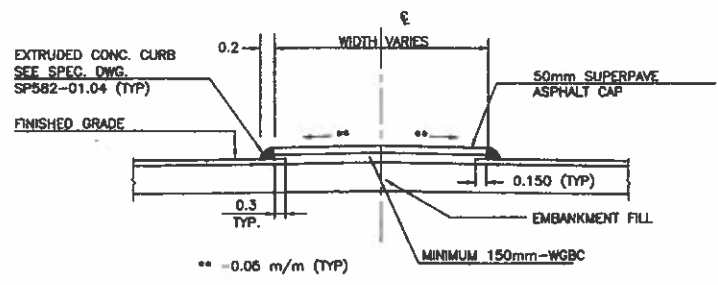
CONCRETE MEDIAN END DETAILS (TYP)

NTS



ASPHALT CURB DETAIL

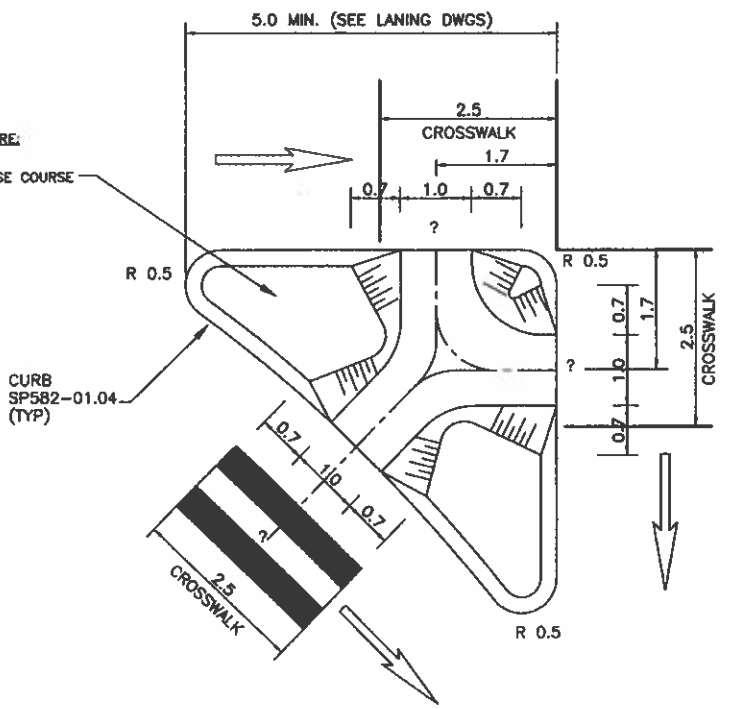
1:25



RAISED MEDIAN / PAVED ISLAND DETAIL

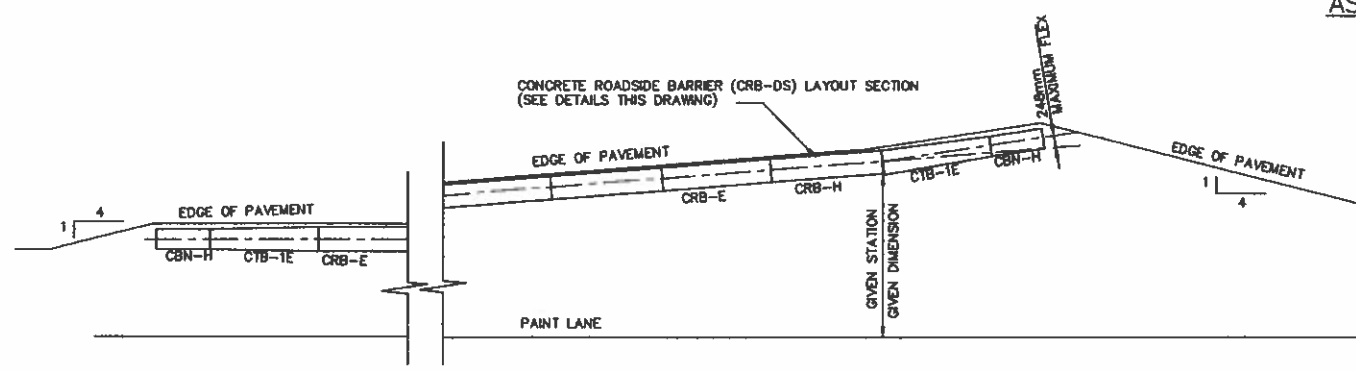
0 1:50 2

TYPICAL RAISED ISLAND STRUCTURE:
 50mm ASPHALT OVER
 100mm OF 25mm CRUSHED BASE COURSE



ISLAND DETAIL

(FOR MORE INFORMATION SEE SPEC. DWG. SP582-07.03)
 NTS



TYPICAL FLARE BARRIER LAYOUT DETAILS

NTS

NOTE
 SEE LANING AND GEOMETRICS DRAWING FOR FLARE AND CONCRETE ROADSIDE BARRIER LAYOUT STATION AND OFFSET

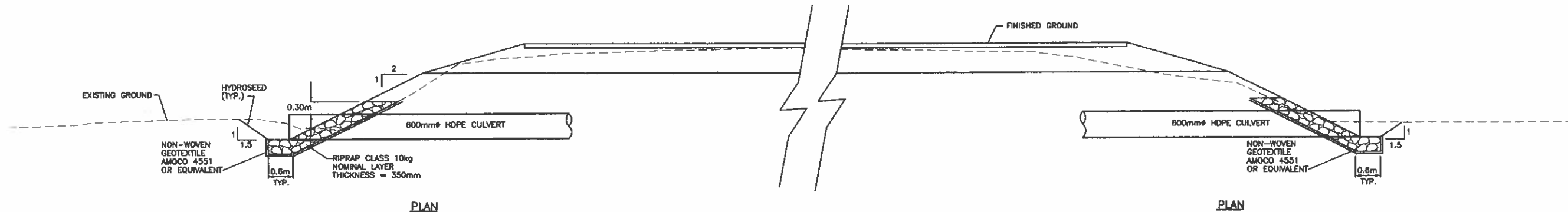
NSLUA Consultants Ltd. 148 WEST GEORGIA STREET, VANCOUVER, BC V6J 2T3 TEL. (604) 685-8381		DESIGNED <u>AT</u> DATE <u>JUN/08</u> CHECKED <u>MCS</u> DATE <u>JUN/08</u> DRAWN <u>RS/ML</u> DATE <u>JUN/08</u> REVIEWED <u>SW</u> DATE <u>JUN/08</u>	
		SCALE AS SHOWN	
Rev	Date	Description	Signature
REVISIONS			

MINISTRY OF TRANSPORTATION HIGHWAY DESIGN AND SURVEY ENGINEERING SOUTH COAST REGION			
TYPICAL SECTIONS MISSION-ABBOTSFORD HIGHWAY No. 11 SUMAS WAY TO CLAYBURN ROAD			
DESIGNER <u>NSLUA CONSULTANTS LTD.</u> DATE <u>MAR 10 2008</u>		FILE No. <u>11313</u> PROJECT No. <u>11313-0001</u>	
REVISIONS		REV. <u>1</u>	DRAWING No. <u>R1-491-303</u>

CANCEL PRINTS BEARING PREVIOUS LETTER

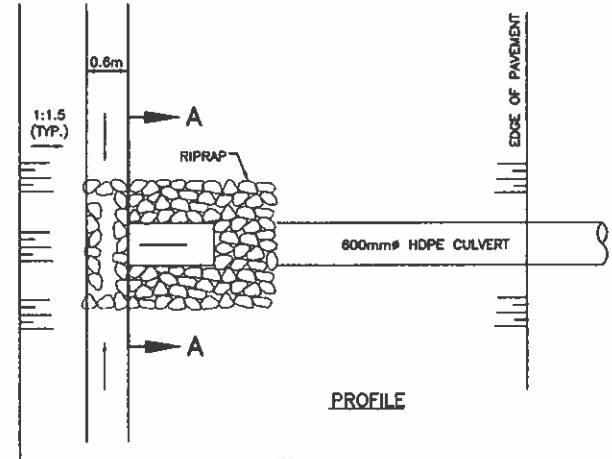
FILE: B1573M303

UPDATE: MAR 10, 2008

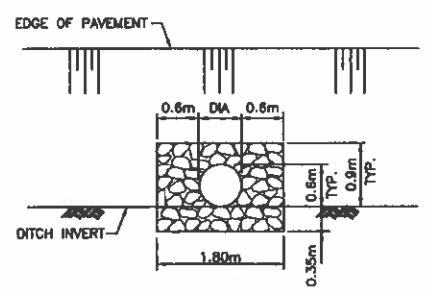


PLAN

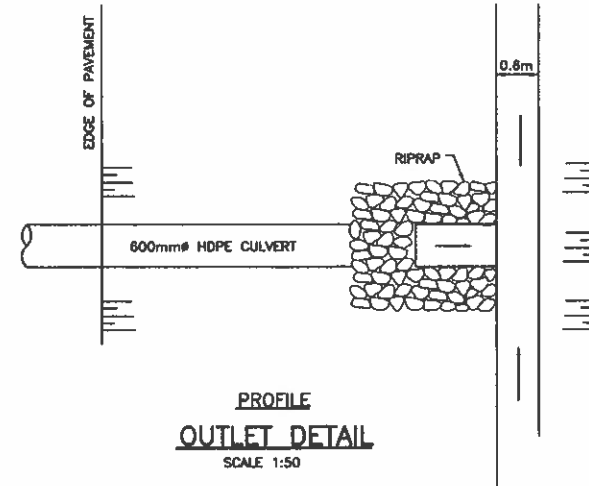
PLAN



PROFILE



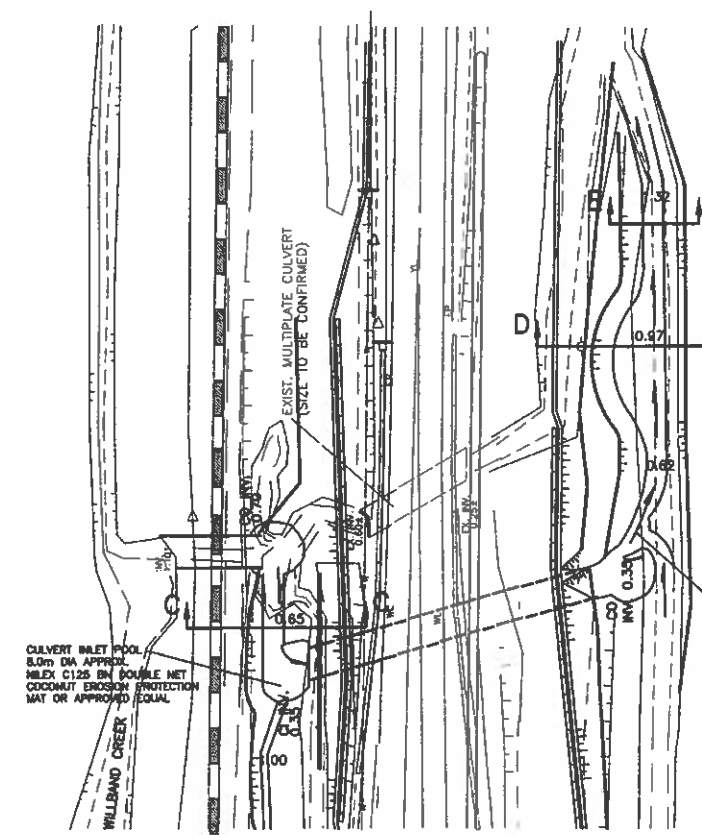
SECTION A-A



PROFILE
OUTLET DETAIL
SCALE 1:50

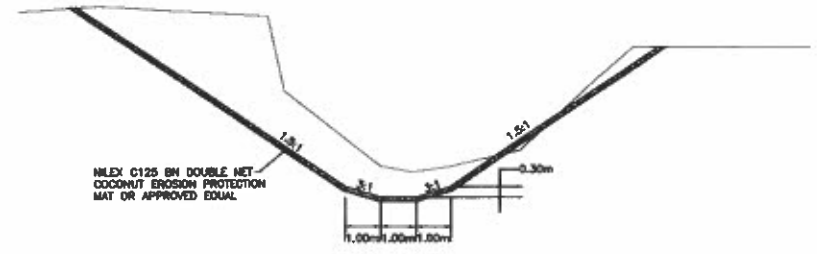
INLET DETAIL
SCALE 1:50

NOTES:
1) ALL RIPRAP IS CLASS 10kg WITH A NOMINAL LAYER THICKNESS OF 350mm. UNLESS OTHERWISE STATED THE RIPRAP CLASS NO. IS THE MASS (kg) OF THE 50% ROCK SIZE (i.e. AT LEAST HALF OF THE RIPRAP MUST BE HEAVIER THAN IT'S CLASS MASS.)

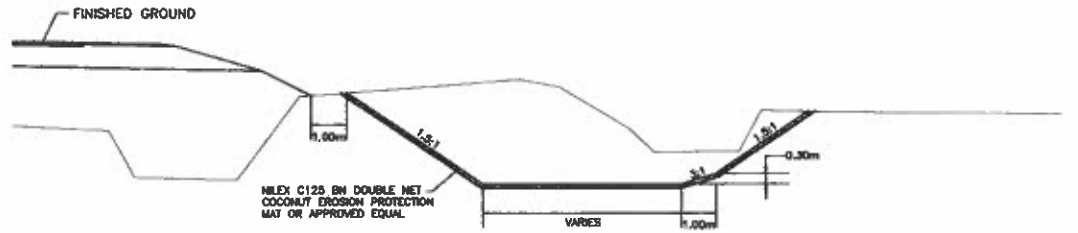


PLAN
SCALE 1:500

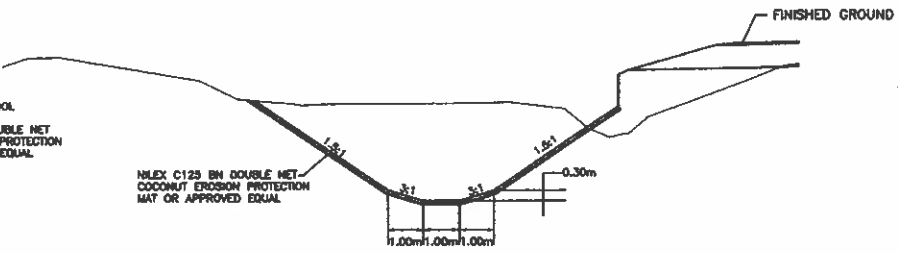
NOTE:
CONTRACTOR SHALL MAKE ALL ATTEMPTS TO SALVAGE EXISTING RIPRAP VEGETATION PRIOR TO STARTING CONSTRUCTION WORKS AND REPLANT AS SOON AS ALL WORKS ARE COMPLETED WITHIN AREA.



SECTION E-E
SCALE 1:100



SECTION D-D
SCALE 1:100

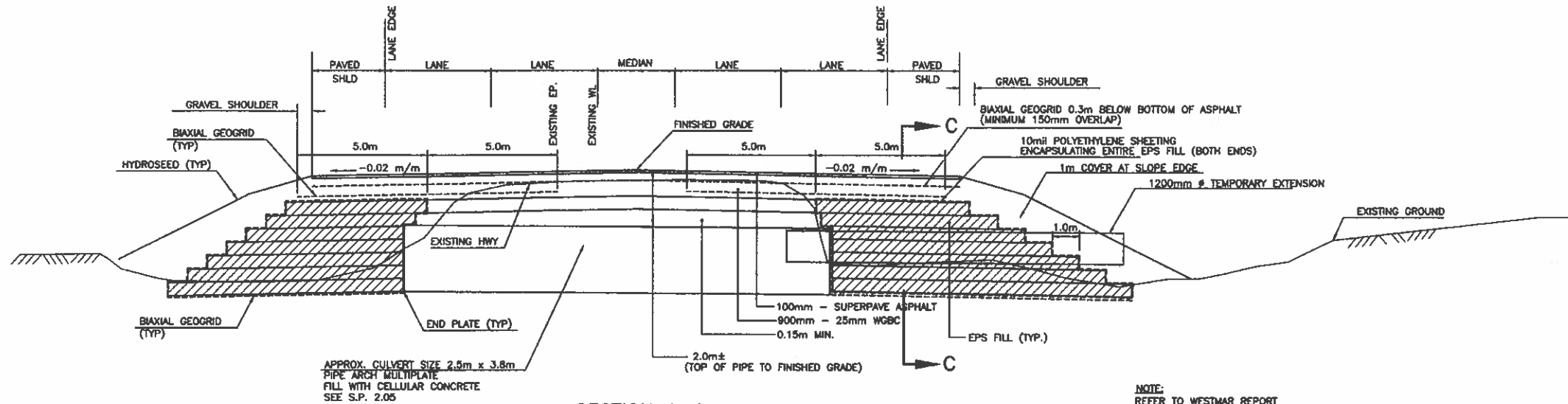


SECTION C-C
SCALE 1:100

<p>NOLEA Consultants Ltd. 180 WEST GEORGE STREET, WINNIPEG, BC V6B 2Z3 TEL. (604) 480-4381</p>		<p>MINISTRY OF TRANSPORTATION HIGHWAY DESIGN AND SURVEY ENGINEERING SOUTH COAST REGION</p>									
<p>SCALE AS SHOWN</p>		<p>DESIGNED: MCS DATE FEB/05 CHECKED: MCS DATE FEB/05 DRAWN: DS/06 DATE FEB/05 REVIEWED: BW DATE MAR/06</p>									
<p>REVISIONS</p> <table border="1"> <thead> <tr> <th>Rev</th> <th>Date</th> <th>Description</th> <th>Signature</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>		Rev	Date	Description	Signature					<p>TYPICAL CULVERT DETAILS MISSION-ABBOTSFORD HIGHWAY No. 11 SUMAS WAY TO CLAYBURN ROAD</p>	
Rev	Date	Description	Signature								
<p>SENIOR DESIGNER: <i>[Signature]</i> DATE: MAR 10 2006</p>		<p>FILE No. 11313 PROJECT No. 11313-0001 REV. 1 DRAWING No. R1-491-306</p>									
<p>CANCEL PRINTS BEARING PREVIOUS LETTER</p>											

FILE: B1573M036

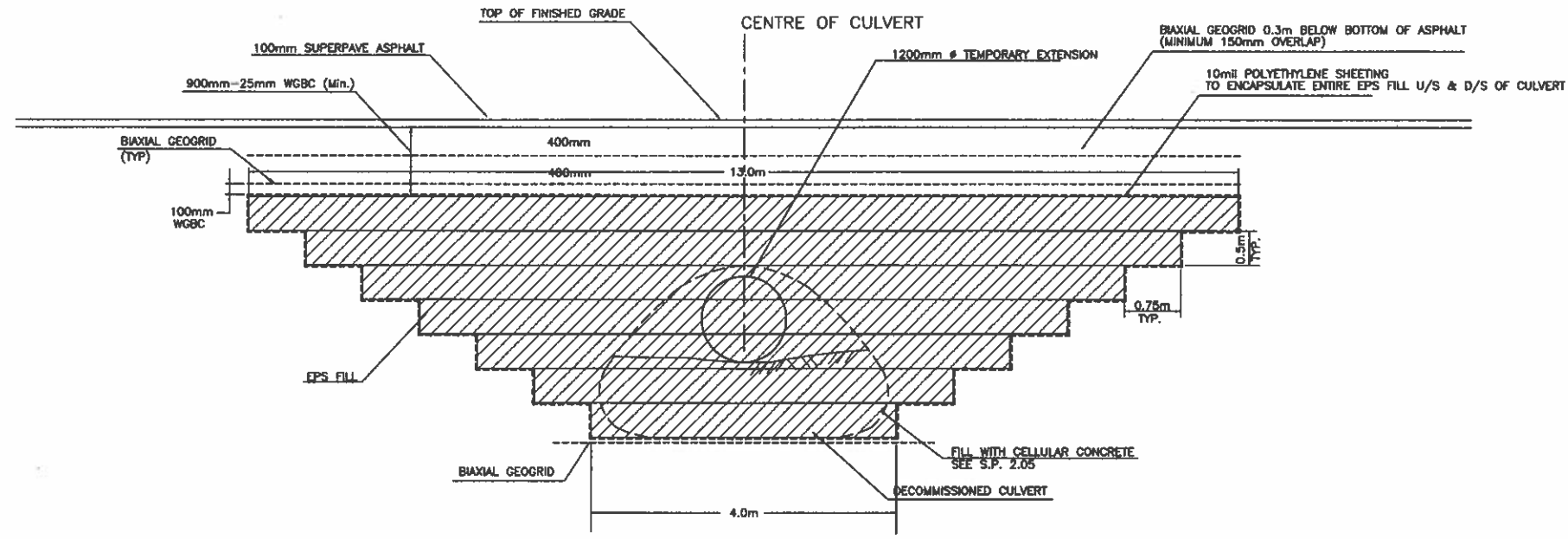
UPDATE: MAR 10, 2006



**SECTION A-A
SECTION ALONG CULVERT**

0 1:100 5

NOTE:
REFER TO WESTMAR REPORT
FOR FURTHER DETAILS ON
EXISTING CULVERT.



**SECTION C-C
TYPICAL SECTION ACROSS CULVERT**

NTS

145 WEST GEORGIA STREET, VANCOUVER, BC V6J 2J3 TEL. (604) 685-6381		MINISTRY OF TRANSPORTATION HIGHWAY DESIGN AND SURVEY ENGINEERING SOUTH COAST REGION	
SCALE AS SHOWN		DECOMMISSIONED WILLBAND CREEK CULVERT MISSION-ABBOTSFORD HIGHWAY No. 11 SUMAS WAY TO CLAYBURN ROAD	
DESIGNED: AT DATE JAN/08 CHECKED: MCS DATE JAN/08 DRAWN: DS DATE JAN/08 REVIEWED: SW DATE MAR/08		SENIOR DESIGNER: <i>[Signature]</i> DATE: MAR 10 2008	
FILE No. 11313		PROJECT No. 11313-0001	
REVISIONS		REV. 1 DRAWING No. R1-491-307	

FILE: B1573A307

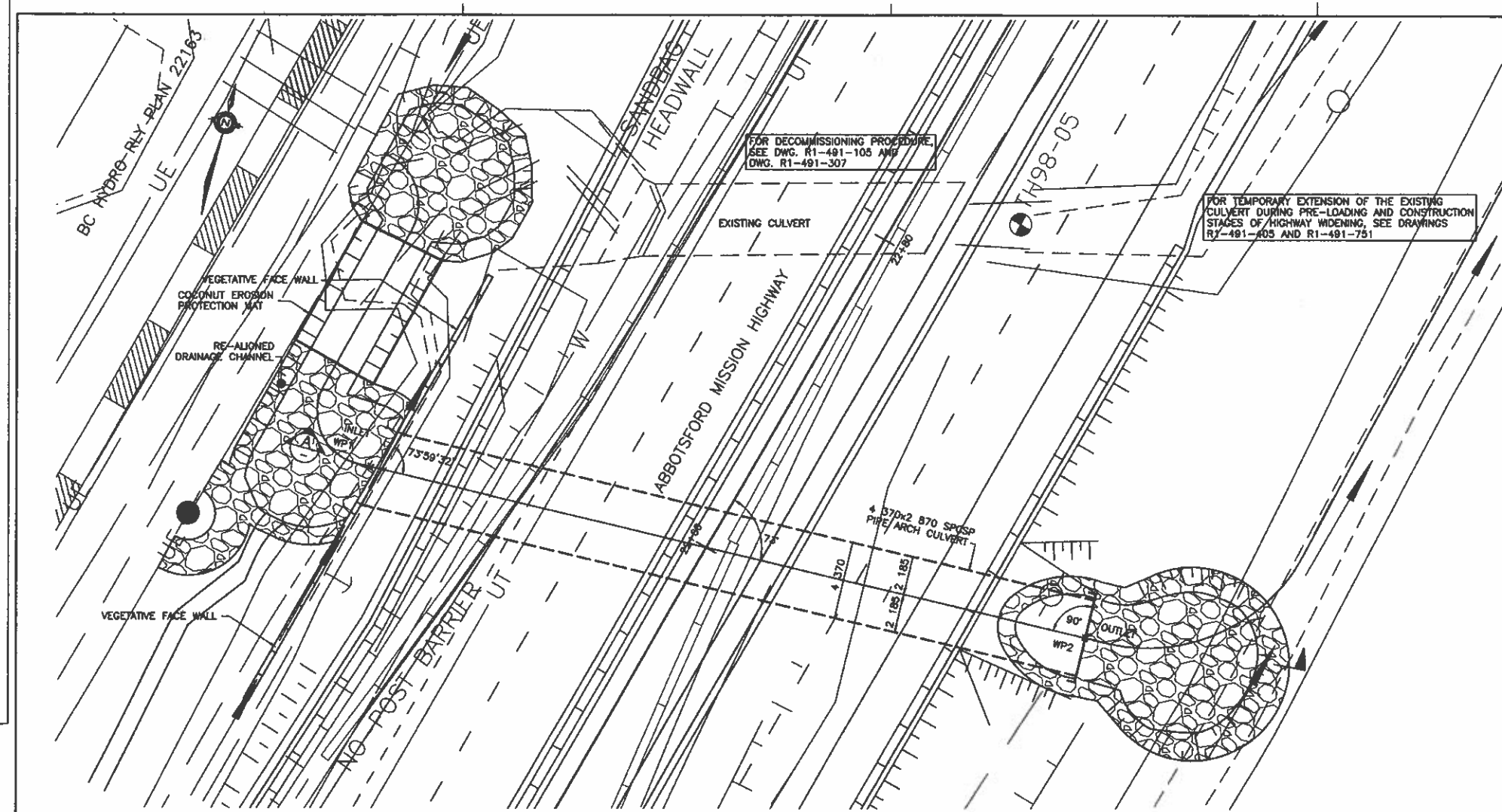
UPDATE: MAR 10, 2008

CANCEL PRINTS BEARING PREVIOUS LETTER

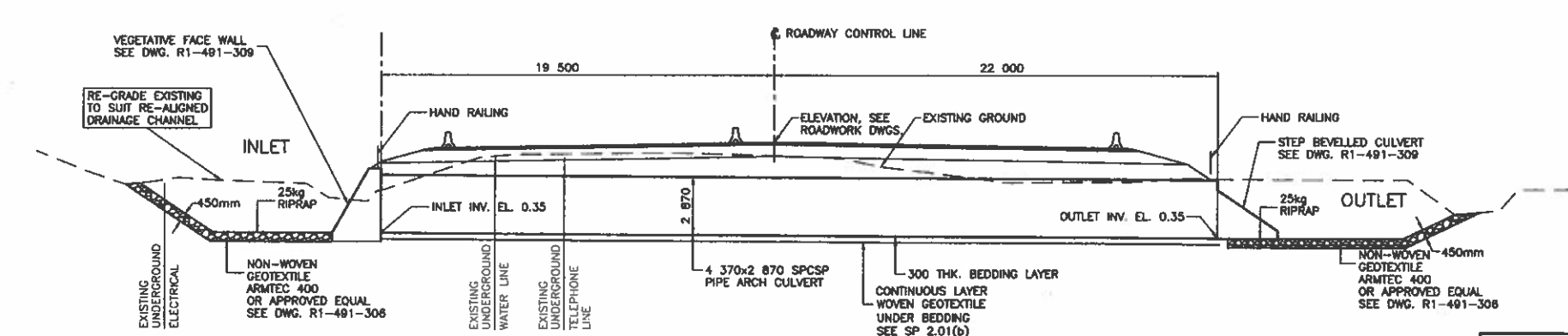
GENERAL ARRANGEMENT DRAWINGS

NOTES

- NEW CULVERT SHALL BE A PIPE-ARCH SHAPE OF APPROXIMATELY 4370mm SPAN AND 2870mm RISE OF STRUCTURAL PLATE CORRUGATED STEEL PIPE (SPCSP) COMPOSITION WITH BOLTED SEAMS.
- THE PIPE ARCH CULVERT SHALL BE DESIGNED AND CONSTRUCTED IN ACCORDANCE WITH CSA-S6-00 DESIGN CODE USING THE FOLLOWING DESIGN DATA:
- LIVE LOAD CL825
- ACCELERATION RELATED SEISMIC ZONE $Z_0 = 4$
IT IS EXPECTED THAT THE CONTRACTOR SHALL MAKE USE OF A PROPRIETARY PIPE-ARCH CULVERT MANUFACTURED BY RECOGNIZED FABRICATOR TO ACHIEVE THE DESIGN LIFE SPAN USING THE APPROPRIATE CORROSION RATES AS SPECIFIED BY THE MINISTRY. DESIGN LIFE TO BE 100 YEARS.
- THE CONTRACTOR SHALL SUBMIT DESIGN CALCULATIONS AND DRAWINGS FOR THE PIPE-ARCH CULVERT IDENTIFIED IN ITEMS 1 & 2 ABOVE, INCLUDING THE VEGETATIVE WIRE FACE WALL, HAND RAILINGS AT THE INLET AND OUTLET, EPS FILL AND ANY ASSOCIATED EROSION CONTROL WORKS INCLUDING RIPRAP DETAILS, SEALED BY A PROFESSIONAL ENGINEER REGISTERED IN B.C. TO THE CONTRACT ADMINISTRATOR FOR REVIEW AT LEAST 20 DAYS PRIOR TO START OF FABRICATION. THE CALCULATIONS AND DRAWINGS SHALL TAKE INTO ACCOUNT THE GEOTECHNICAL CONSIDERATIONS AS WELL AS THE SEISMIC REQUIREMENTS OF THIS BURIED STRUCTURE.
- THE NEW PIPE-ARCH CULVERT SHALL BE CONSTRUCTED IN STAGES TO SUIT THE PRE-LOADING SCHEME, THE EPS FILL AND THE LAYOUT OF THE STAGED CONSTRUCTION OF THE HIGHWAY AS SHOWN ON THE ROADWAY DRAWINGS. THE LAYOUT OF THE EPS FILL SHALL ACCOMMODATE THE VEGETATED WIRE FACE WALL AND ASSOCIATED EROSION CONTROL MEASURES. PLACEMENT OF RIPRAP TO BE APPROVED BY THE MINISTRY REPRESENTATIVE.
- FOUNDATIONS BELOW THE HAUNCHES OF THE PIPE ARCHES SHALL BE REINFORCED AS DESCRIBED IN CLAUSE 7.6.3.2 OF THE ABOVE MENTIONED CAN/CSA-S6-00 DESIGN CODE.
- MEASURES AIMED AT THE PROTECTION OF ENVIRONMENT DURING ALL STAGES OF CONSTRUCTION MUST BE EMPLOYED IN A MANNER THAT WILL PREVENT THE RELEASE OF SEDIMENT OR SEDIMENT LADEN WATER INTO WILLBAND CREEK WATERCOURSE. CARE MUST BE TAKEN TO MINIMIZE DISTURBANCE TO EXISTING VEGETATION.
- A FISH SALVAGE IS REQUIRED PRIOR TO ANY INSTREAM WORKS. THE FLOW OF WILLBAND CREEK WILL BE ISOLATED FROM INSTREAM WORKS. THIS MAY REQUIRE A TEMPORARY FLOW DIVERSION BY PUMPS. IN THE EVENT OF PUMP FAILURE, EXTRA PUMPS SUFFICIENT TO HANDLE THE WATERCOURSE'S FLOW CAPACITY MUST BE ONSITE THROUGHOUT THE FLOW DIVERSION.
- ALL WORK INVOLVING THE USE OF CONCRETE, ASPHALT, CEMENT, MORTARS AND OTHER PORTLAND CEMENT OR LIME-CONTAINING CONSTRUCTION MATERIALS WILL BE CONDUCTED SO AS TO ENSURE THAT SEDIMENTS, CONCRETE AND CONCRETE FINES ARE NOT DEPOSITED, EITHER DIRECTLY OR INDIRECTLY INTO ANY WATERCOURSE OR STORMWATER COLLECTION SYSTEM. ANY WATER CONTAINING UNCURED OR PARTLY CURED CONCRETE OR PORTLAND CEMENT OR LIME-CONTAINING CONSTRUCTION MATERIALS, SUCH AS THE WATER THAT MAY BE USED FOR EXPOSED AGGREGATE WASH-OFF, WET CURING, EQUIPMENT WASHING, ETC., SHALL BE PREVENTED FROM ENTERING, DIRECTLY OR INDIRECTLY INTO THE WATERCOURSE OR STORMWATER COLLECTION SYSTEM.
- CONCRETE LEACHATE IS ALKALINE AND HIGHLY TOXIC TO FISH AND AQUATIC LIFE AND MEASUREMENTS AND DISPERSAL EQUIPMENT MUST BE ONSITE DURING ALL CONCRETE WORK AND BE READY FOR IMMEDIATE DEPLOYMENT SHOULD A CONCRETE SPILL OCCUR. TO ENSURE THAT NO CONCRETE OR CONCRETE LEACHATE IMPACTS DOWNSTREAM FISH OR FISH HABITAT, THE DOWNSTREAM pH IS RECORDED (i.e. pH BELOW 5.0 OR ABOVE 9.0), THEN EMERGENCY MEASURES MUST BE IMPLEMENTED TO NEUTRALIZE pH LEVELS. IN ADDITION, ANY CONCRETE THAT DOES ESCAPE MUST BE CLEARED OUT OF ANY INSTREAM AREA IMMEDIATELY.
- ALL CONCRETE AND ASPHALT WORK, MUST BE UNDERTAKEN DURING PERIODS WHEN THE RISK OF PRECIPITATION IS LOW. SHOULD A PRECIPITATION EVENT OCCUR DURING ANY INSTREAM CONCRETE WORK, OPERATIONS SHOULD BE IMMEDIATELY CEASED AND MEASURES MUST BE TAKEN TO ENSURE THAT CONCRETE LEACHATE DOES NOT ENTER THE FISHERY SENSITIVE WATERCOURSE.
- FOR ANY INSTREAM OR NEAR STREAM CONCRETE/ASPHALT WORK, A MINIMUM OF 72 HOURS CURING TIME IS REQUIRED WITH COMPLETE ISOLATION OF THE CONCRETE FROM ANY DITCH, WATERCOURSE, SURFACE WATER DRAINAGE OR STORM SEWER SYSTEM.



PLAN
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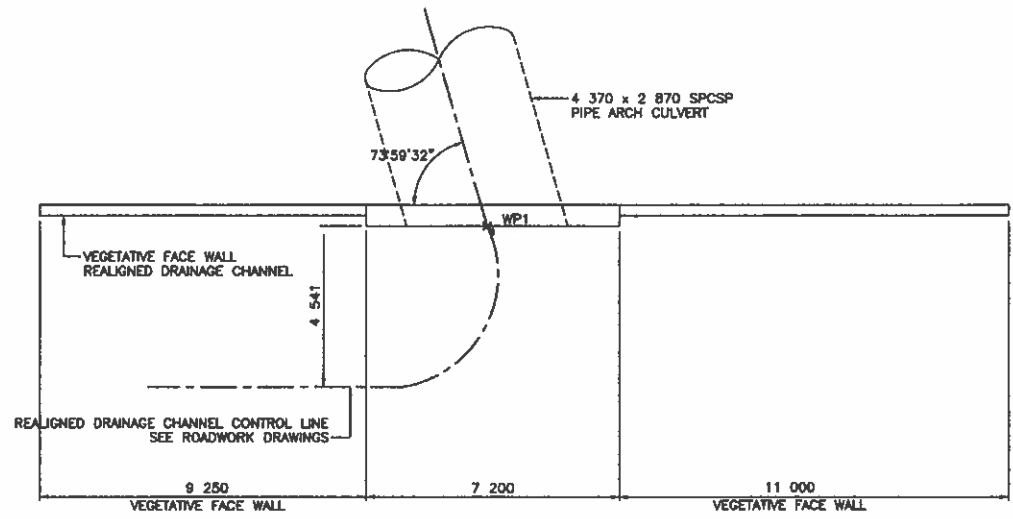


SECTION A
SCALE: 1:150

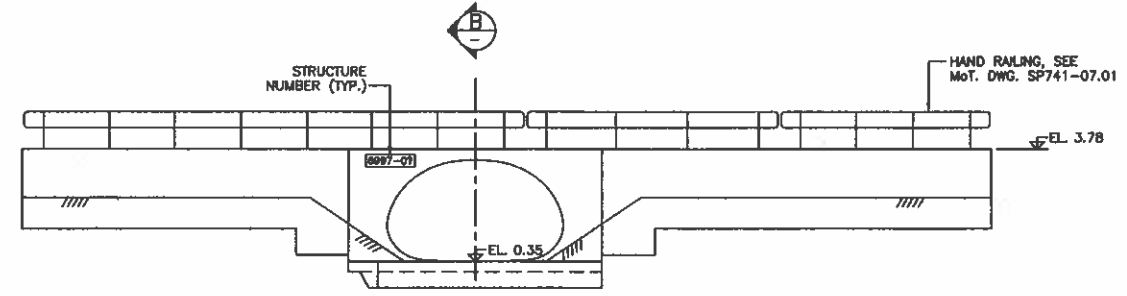
1405 WEST BERNER STREET, VANCOUVER, BC V6B 2T3 TEL: (604) 685-6311		MINISTRY OF TRANSPORTATION HIGHWAY DESIGN AND SURVEY ENGINEERING SOUTH COAST REGION	
SCALE	AS SHOWN	DESIGNED	JK DATE FEB/08
		CHECKED	JE DATE FEB/08
		DRAWN	SEP DATE MAR/08
		REVIEWED	SW DATE MAR/08
Rev	Date	Description	Signature
SENIOR DESIGNER		DATE MAR 10 2008	
FILE No.	PROJECT No.	REV.	DRAWING No.
11313	11313-0001	1	R1-491-308
REVISIONS			
CANCEL PRINTS BEARING PREVIOUS LETTER			

FILE: 1437M308

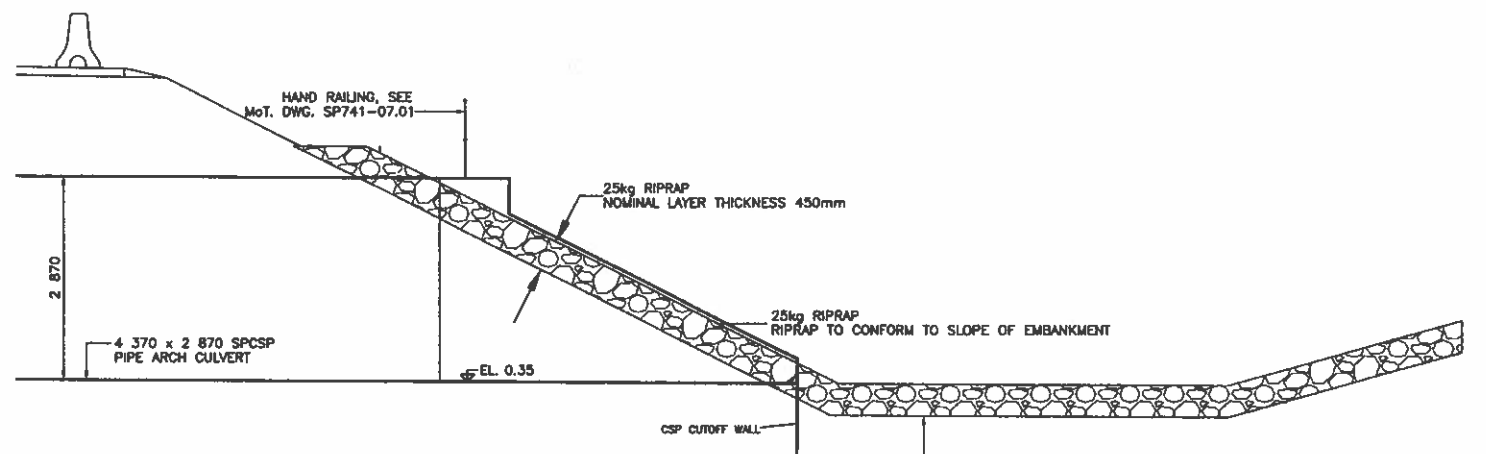
UPDATE: Mar 10, 2008



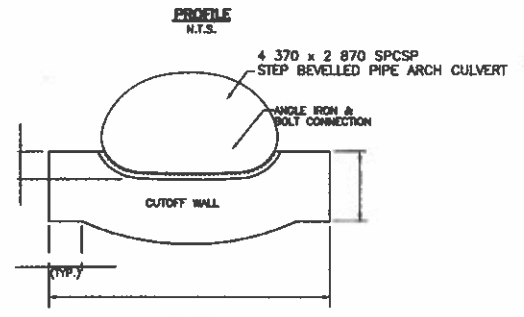
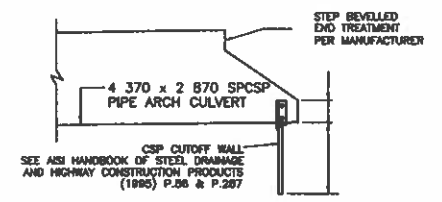
PLAN
NOTE : DIMENSIONS FOR PRICING ONLY.



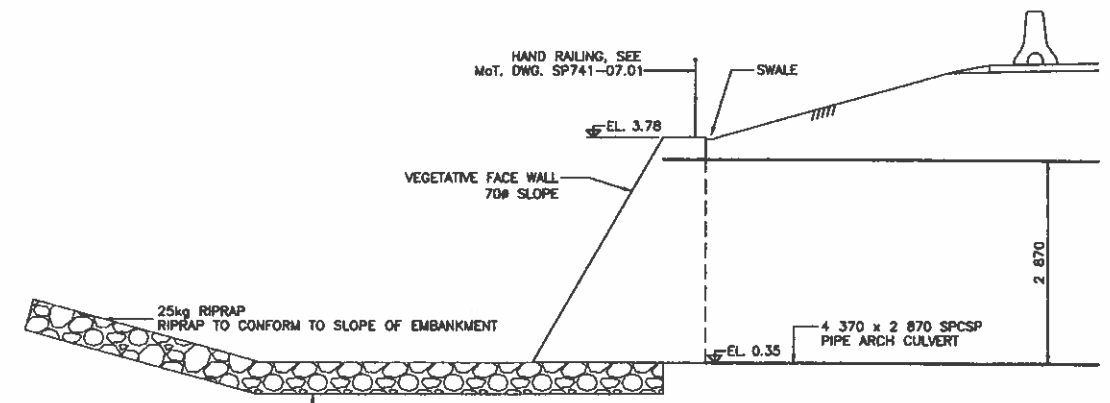
ELEVATION
INLET STRUCTURE
SCALE: 1:100



SECTION C
SCALE 1:50



CUTOFF WALL DETAIL



SECTION B
SCALE 1:50

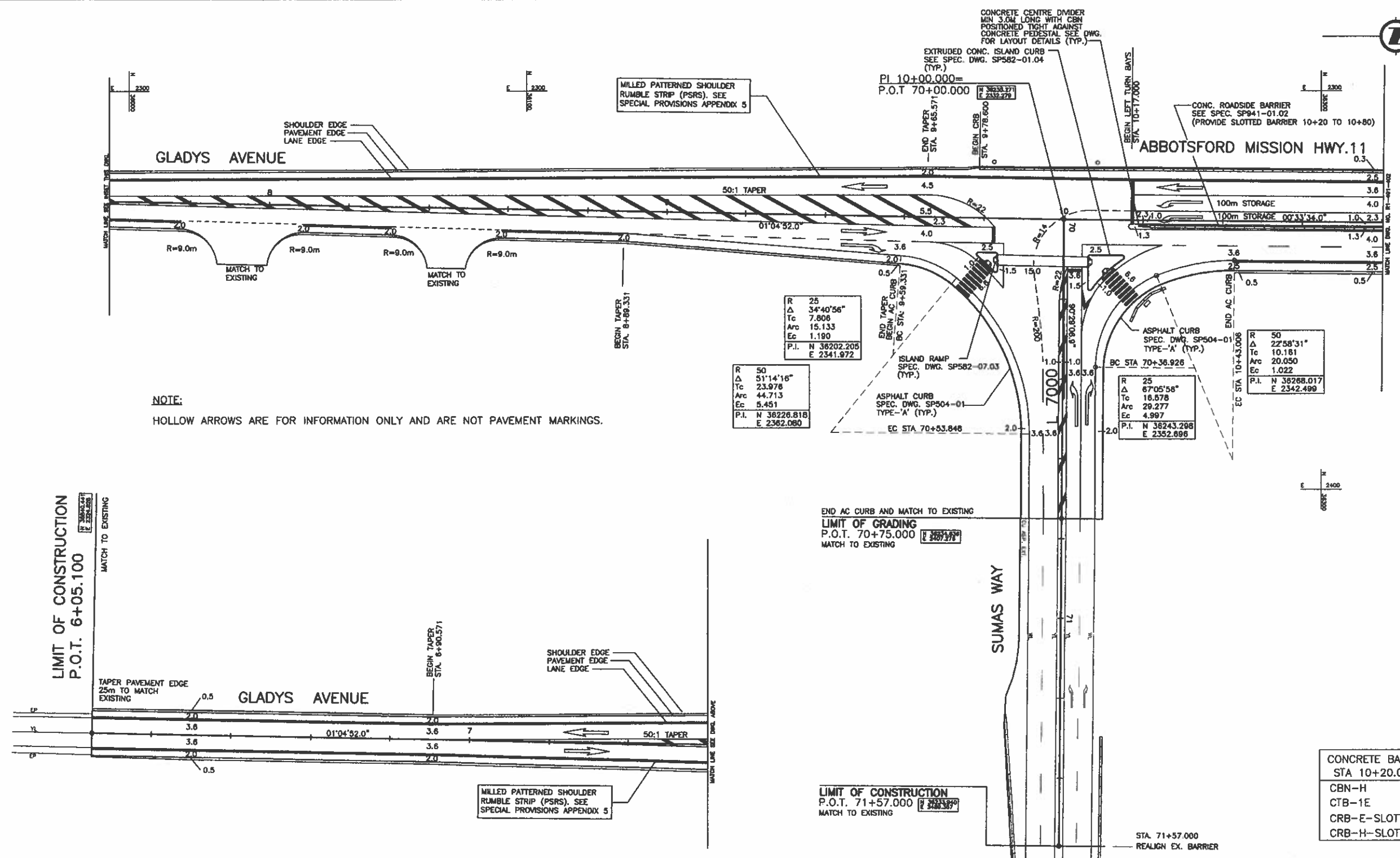
NON-WOVEN GEOTEXTILE ARMTEC 400 OR APPROVED EQUAL SEE DWG. R1-491-308

- NOTES**
- FOR GENERAL NOTES, SEE DWG. R1-491-308

<p>NDLEA Consultants Ltd. 1405 WEST GEORGE STREET, WINNIPEG, BC V9G 2T3 TEL. (800) 888-6301</p>		<p>MINISTRY OF TRANSPORTATION HIGHWAY DESIGN AND SURVEY ENGINEERING SOUTH COAST REGION</p>																					
<p>SCALE AS SHOWN</p> <p>DESIGNED: JK DATE FEB /08 CHECKED: JK DATE FEB /08 DRAWN: DEE DATE MAR /08 REVIEWED: SW DATE MAR /08</p>		<p>WILLBAND CREEK CULVERT RELOCATION MISSION-ABBOTSFORD HIGHWAY No. 11 SUMAS WAY TO CLAYBURN ROAD INLET AND OUTLET STRUCTURE DETAIL</p>																					
<table border="1"> <thead> <tr> <th>Rev</th> <th>Date</th> <th>Description</th> <th>Signature</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> </tbody> </table>		Rev	Date	Description	Signature																	<p>SENIOR DESIGNER: <i>[Signature]</i> DATE: MAR 10, 2008</p>	
Rev	Date	Description	Signature																				
<p>REVISIONS</p>		<p>FILE No. 11313</p>	<p>PROJECT No. 11313-0001</p>																				
		<p>REV. 1</p>	<p>DRAWING No. R1-491-309</p>																				
<p>CANCEL PRINTS BEARING PREVIOUS LETTER</p>																							

FILE: 1437MB81

UPDATE: MAR 10, 2008



LIMIT OF CONSTRUCTION
P.O.T. 6+05.100

MATCH TO EXISTING

TAPER PAVEMENT EDGE
25m TO MATCH
EXISTING

HIGHWAY 11 DESIGN SPEED 80 km/h

SUMAS WAY DESIGN SPEED 50 km/h

ALL MOVEMENTS TS7

FOR DRAINAGE & CONSTRUCTION DETAILS
SEE DWG No. R1-491-101

FOR SIGNING AND PAVEMENT MARKINGS
SEE DWG No. R1-491-501

FOR SURCHARGE DRAINAGE PLAN
SEE DWG No. R1-491-601

NDLA Consultants Ltd.
100 WEST GEORGIA STREET, VANCOUVER, BC V6C 2T3 TEL: (604) 688-6311

SCALE 0 1:500 25

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 CHECKED: MCS DATE FEB/05
 DRAWN: SM/BL DATE FEB/05
 REVISION: SW DATE MAR/05

Rev	Date	Description	Signature

REVISIONS

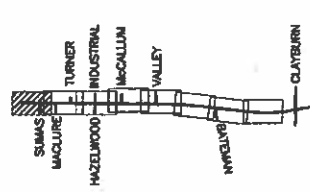
MINISTRY OF TRANSPORTATION
HIGHWAY DESIGN AND SURVEY ENGINEERING
SOUTH COAST REGION

GEOMETRICS AND LANING
MISSION-ABBOTSFORD HIGHWAY No. 11
SUMAS WAY TO CLAYBURN ROAD
STA. 6+05.100 TO STA. 10+80.000

DATE: MAR 10 2005

FILE No.	PROJECT No.	REV.	DRAWING No.
11313	11313-0001	1	R1-491-401

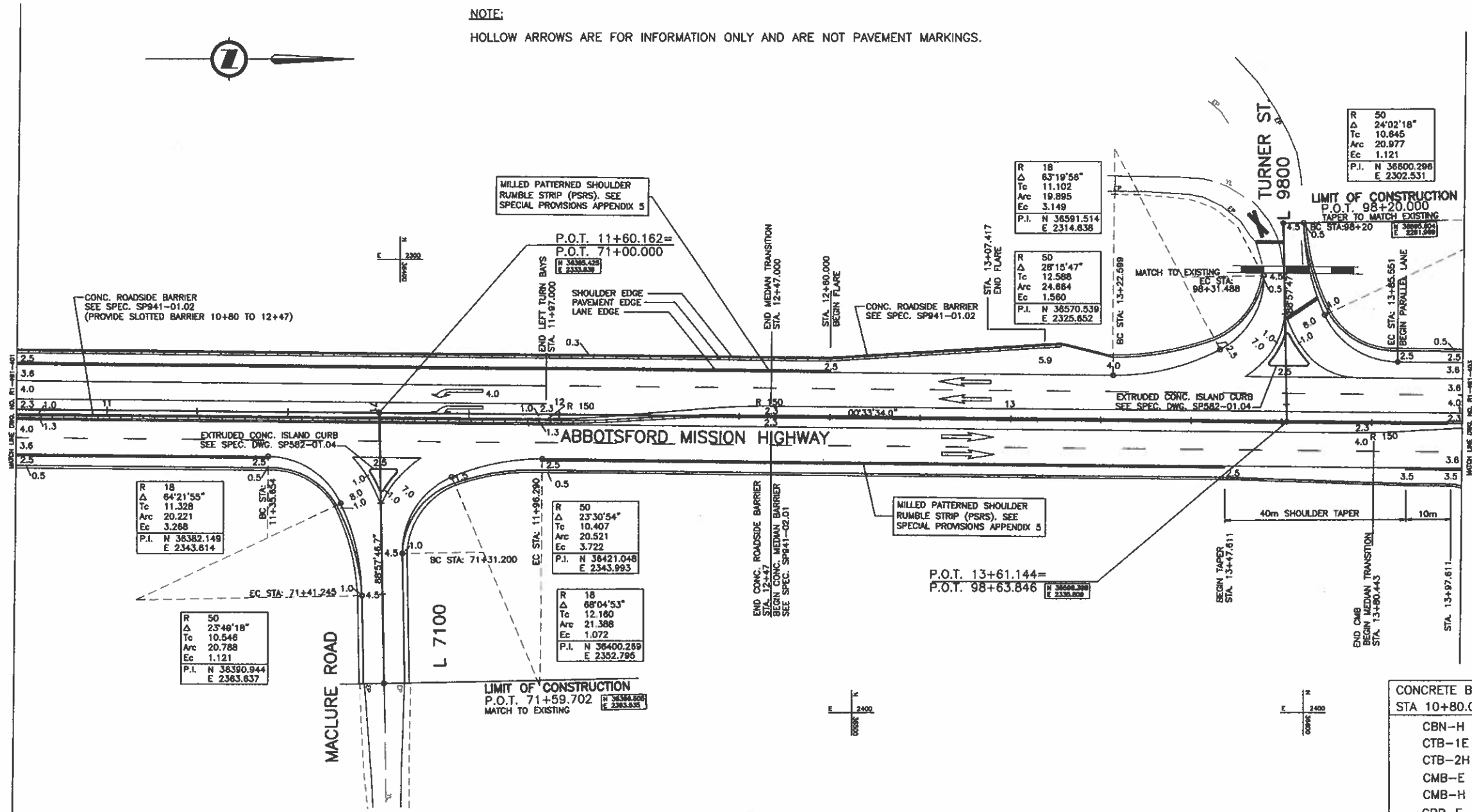
CANCEL PRINTS BEARING PREVIOUS LETTER



FILE: 1437M401

UPDATE: MAR 10, 2005

NOTE:
HOLLOW ARROWS ARE FOR INFORMATION ONLY AND ARE NOT PAVEMENT MARKINGS.



HIGHWAY 11 DESIGN SPEED 80 km/h

MACLURE ROAD DESIGN SPEED 50 km/h

- ALL MOVEMENTS TS7
- FOR DRAINAGE & CONSTRUCTION DETAILS
SEE DWG No. R1-491-102
- FOR SIGNING AND PAVEMENT MARKINGS
SEE DWG No. R1-491-502
- FOR SURCHARGE DRAINAGE PLAN
SEE DWG No. R1-491-602

CONCRETE BARRIER COMPONENTS STA 10+80.000 TO 14+00.000	
CBN-H	2 SECTION(S)
CTB-1E	2 SECTION(S)
CTB-2H	2 SECTION(S)
CMB-E	27 SECTION(S)
CMB-H	26 SECTION(S)
CRB-E	48 SECTION(S)
CRB-H	50 SECTION(S)
CRB-E-SLOTTED	33 SECTION(S)
CRB-H-SLOTTED	33 SECTION(S)

1405 WEST GEORGE STREET, WINICOMER, BC V6V 2Y3 TEL: (604) 685-6201

MINISTRY OF TRANSPORTATION
HIGHWAY DESIGN AND SURVEY ENGINEERING
SOUTH COAST REGION

GEOMETRICS AND LANING
MISSION-ABBOTSFORD HIGHWAY No. 11
SUMAS WAY TO CLAYBURN ROAD
STA. 10+80.000 TO STA. 14+00.000

FILE No.	PROJECT No.	REV.	DRAWING No.
11313	11313-0001	1	R1-491-402

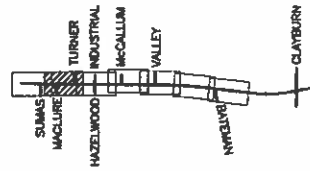
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DESIGNED: AT DATE FEB/05
CHECKED: MCS DATE FEB/05
DRAWN: SM/YS DATE FEB/05
REVIEWED: SM DATE MAR/05

Rev	Date	Description	Signature

REVISIONS

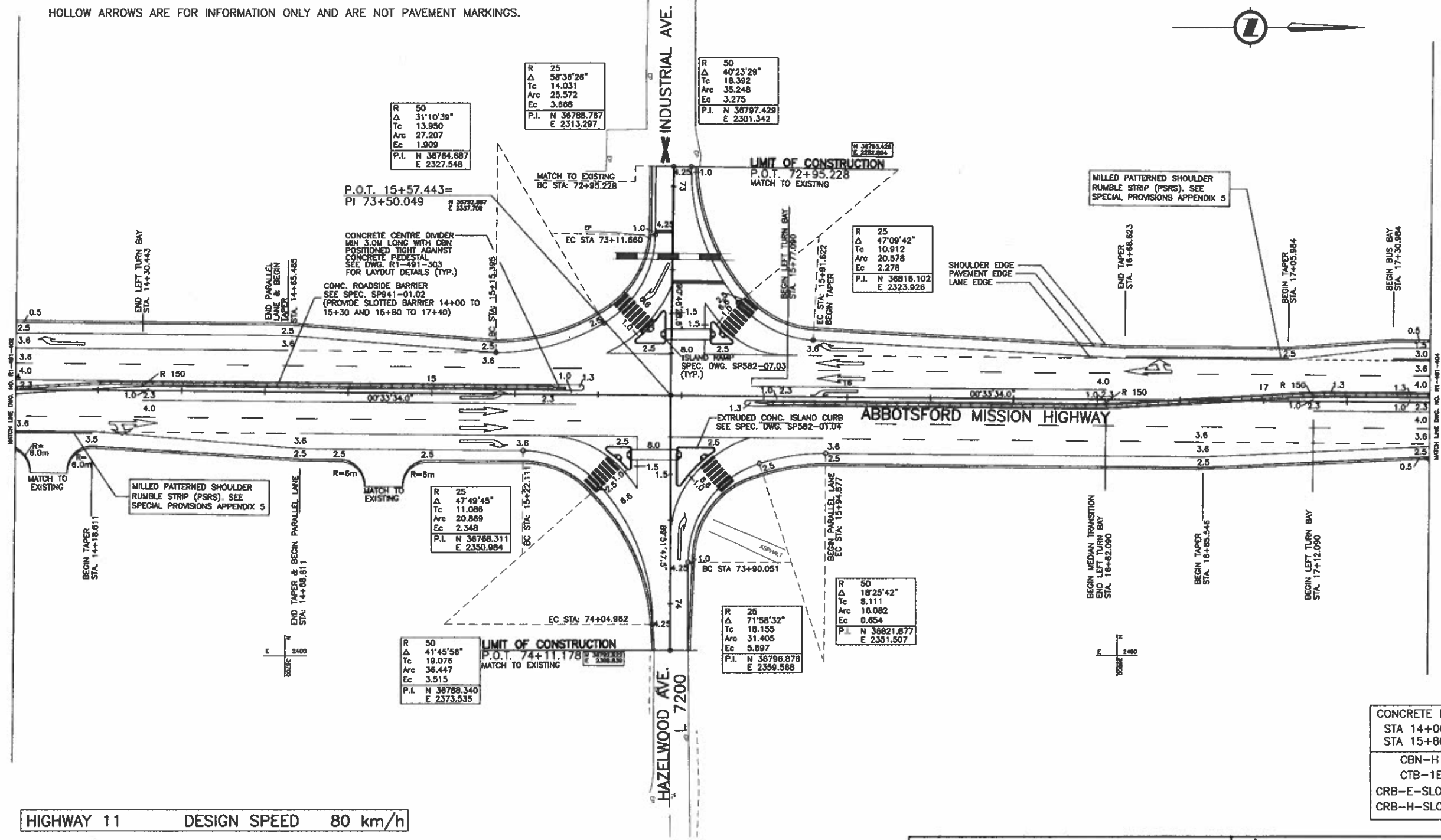
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UPDATE - MAR 10, 2005

CANCEL PRINTS BEARING PREVIOUS LETTER

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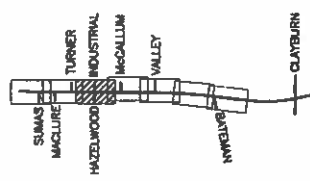


HIGHWAY 11 DESIGN SPEED 80 km/h
HAZELWOOD/INDUSTRIAL AVE. DESIGN SPEED 50 km/h

CONCRETE BARRIER COMPONENTS
STA 14+00.000 TO 15+30.000
STA 15+80.000 TO 17+40.000
CBN-H 2 SECTION(S)
CTB-1E 2 SECTION(S)
CRB-E-SLOTTED 56 SECTION(S)
CRB-H-SLOTTED 56 SECTION(S)

ALL MOVEMENTS TS7
FOR DRAINAGE & CONSTRUCTION DETAILS
SEE DWG No. R1-491-103
FOR SIGNING AND PAVEMENT MARKINGS
SEE DWG No. R1-491-503
FOR SURCHARGE DRAINAGE PLAN
SEE DWG No. R1-491-603

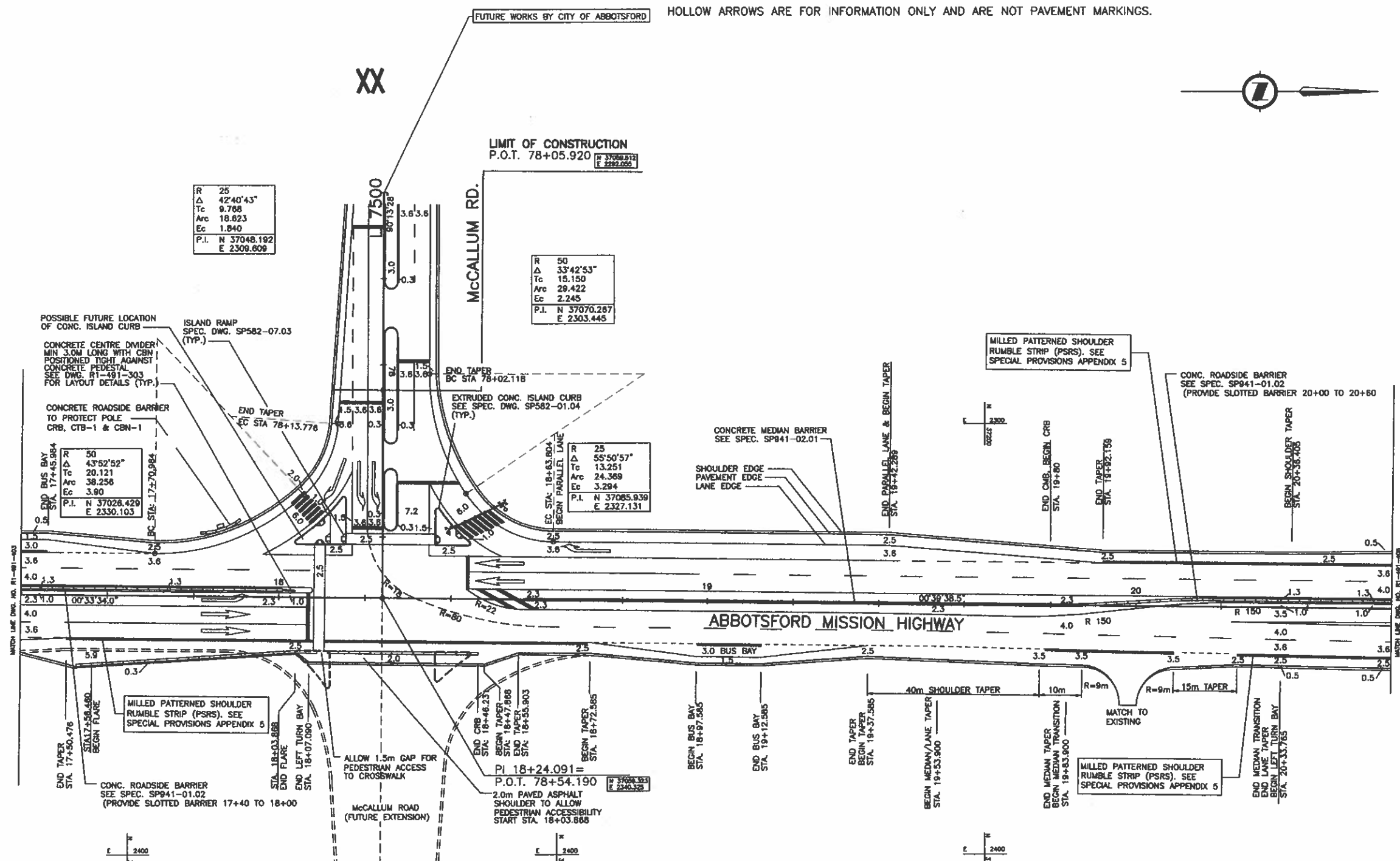
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GEOMETRICS AND LANING MISSION-ABBOTSFORD HIGHWAY No. 11 SUMAS WAY TO CLAYBURN ROAD STA. 14+00.000 TO STA. 17+40.000			
SCALE 0 1:500 25		DESIGNED: AT DATE FEB/05 CHECKED: MCB DATE FEB/05 DRAWN: SM/SL DATE FEB/05 REVIEWED: SM DATE MAR/05	
SENIOR DESIGNER: <i>[Signature]</i> DATE: MAR 10 2005		FILE No. 11313 PROJECT No. 11313-0001 REV. 1 DRAWING No. R1-491-403	
REVISIONS			
CANCEL PRINTS BEARING PREVIOUS LETTER			



FILE: 1437M0403

UPDATE: MAR 10, 2005

NOTE:
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R 25
Δ 42°40'43"
Tc 9.788
Arc 18.823
Ec 1.840
P.I. N 37048.192
E 2309.809

R 50
Δ 33°42'53"
Tc 15.150
Arc 29.422
Ec 2.245
P.I. N 37070.287
E 2303.445

R 25
Δ 55°50'57"
Tc 13.251
Arc 24.369
Ec 3.294
P.I. N 37085.939
E 2327.131

R 50
Δ 43°52'52"
Tc 20.121
Arc 38.256
Ec 3.90
P.I. N 37028.429
E 2330.103

CONCRETE BARRIER COMPONENTS
STA 17+40.000 TO 18+00.000
STA 18+57.000 TO 20+60.000

CBN-H	4 SECTION(S)
CTB-1E	4 SECTION(S)
CTB-2H	2 SECTION(S)
CMB-E	23 SECTION(S)
CMB-H	23 SECTION(S)
CRB-E	4 SECTION(S)
CRB-H	4 SECTION(S)
CRB-E-SLOTTED	23 SECTION(S)
CRB-H-SLOTTED	24 SECTION(S)

HIGHWAY 11 DESIGN SPEED 80 km/h

McCALLUM RD. DESIGN SPEED 50 km/h

- ALL MOVEMENTS TS7
- FOR DRAINAGE & CONSTRUCTION DETAILS
SEE DWG No. R1-491-104
- FOR SIGNING AND PAVEMENT MARKINGS
SEE DWG No. R1-491-504
- FOR SURCHARGE DRAINAGE PLAN
SEE DWG No. R1-491-604

INDIA Consultants Ltd.
1405 WEST GEORGIA STREET, VANCOUVER, BC V6Z 2T2 TEL: (604) 683-6391

SCALE 0 1:500 25

DESIGNED	AT	DATE FEB/08
CHECKED	MCS	DATE AUG/08
DRAWN	SM/ML	DATE FEB/08
REVIEWED	BY	DATE MAR/08

Rev	Date	Description	Signature

REVISIONS

MINISTRY OF TRANSPORTATION
HIGHWAY DESIGN AND SURVEY ENGINEERING
SOUTH COAST REGION

GEOMETRICS AND LANING
MISSION-ABBOTSFORD HIGHWAY No. 11
SUMAS WAY TO CLAYBURN ROAD
STA. 17+40.000 TO STA. 20+60.000

SENIOR DESIGNER: *[Signature]* DATE: MAR. 10 2008

FILE No.	PROJECT No.	REV.	DWGNO No.
11313	11313-0001	1	R1-491-404

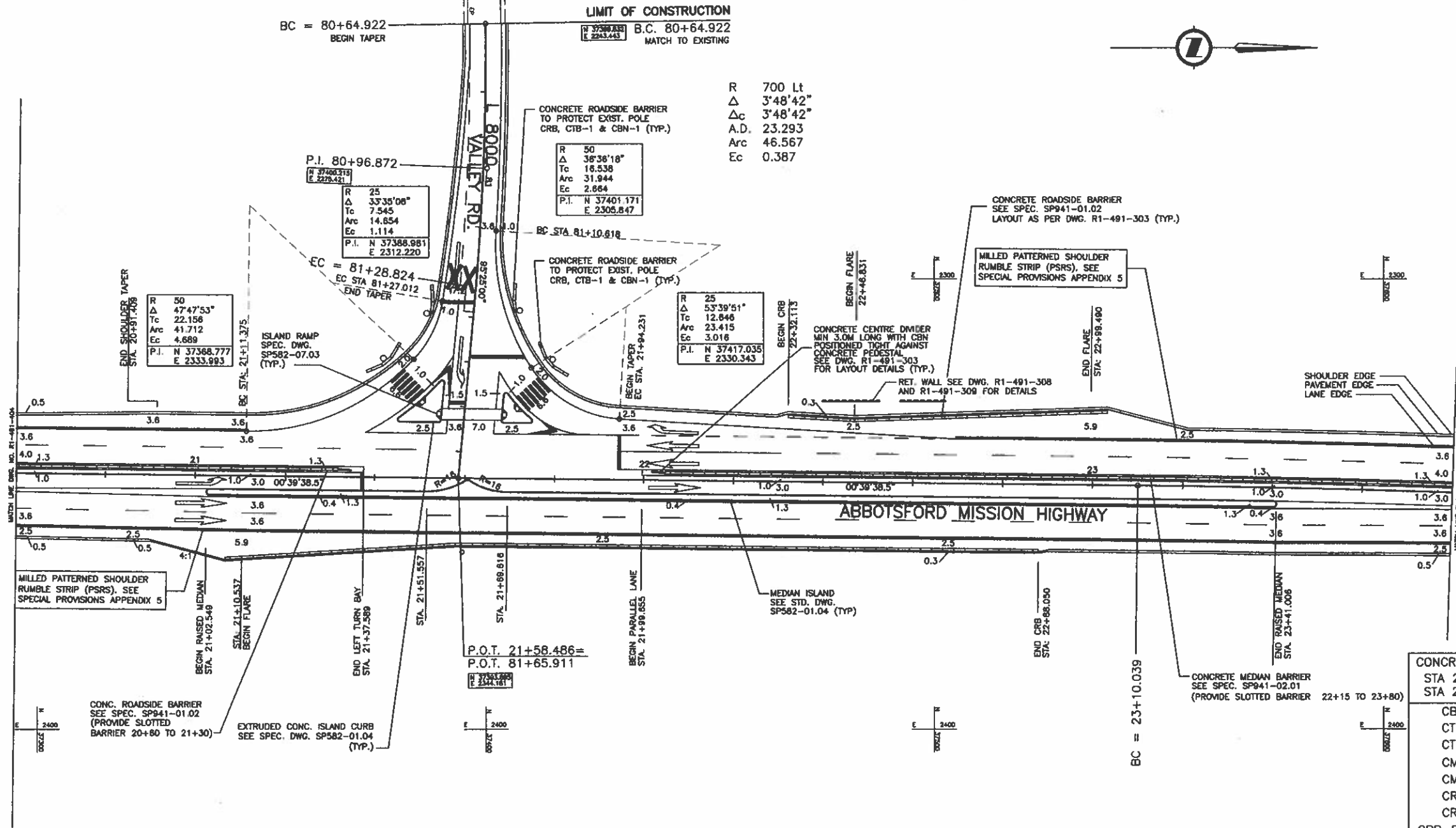
CANCEL PRINTS BEARING PREVIOUS LETTER

FILE: 1437M0404

UPDATE: MAR 10, 2008

NOTE:

HOLLOW ARROWS ARE FOR INFORMATION ONLY AND ARE NOT PAVEMENT MARKINGS.



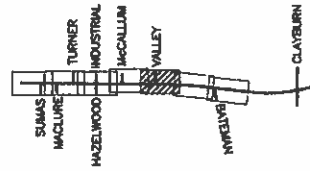
HIGHWAY 11 DESIGN SPEED 80 km/h

VALLEY ROAD DESIGN SPEED 50 km/h

- ALL MOVEMENTS TS7
- FOR DRAINAGE & CONSTRUCTION DETAILS
SEE DWG No. R1-491-105
- FOR SIGNING AND PAVEMENT MARKINGS
SEE DWG No. R1-491-505
- FOR SURCHARGE DRAINAGE PLAN
SEE DWG No. R1-491-605

CONCRETE BARRIER COMPONENTS	
STA 20+60.000 TO 21+40.000	
STA 22+15.000 TO 23+80.000	
CBN-H	10 SECTION(S)
CTB-1E	10 SECTION(S)
CTB-2H	1 SECTION(S)
CMB-E	32 SECTION(S)
CMB-H	32 SECTION(S)
CRB-E	45 SECTION(S)
CRB-H	48 SECTION(S)
CRB-E-SLOTTED	15 SECTION(S)
CRB-H-SLOTTED	16 SECTION(S)

FILE: 1437M0405



INDIA Consultants Ltd.
1405 WEST GEORGINA STREET, WINNIPEG, BC V9G 2G3 TEL: (604) 688-6381

SCALE 0 1:500 25

DESIGNED: JT DATE FEB/06
CHECKED: MCS DATE MAR/06
DRAWN: JH/BL DATE FEB/06
REVIEWED: SE DATE MAR/06

Rev	Date	Description	Signature

REVISIONS

MINISTRY OF TRANSPORTATION
HIGHWAY DESIGN AND SURVEY ENGINEERING
SOUTH COAST REGION

GEOMETRICS AND LANING
MISSION-ABBOTSFORD HIGHWAY No. 11
SUMAS WAY TO CLAYBURN ROAD
STA. 20+60.000 TO STA. 23+80.000

SENIOR DESIGNER: *[Signature]* DATE: MAR. 10 2006

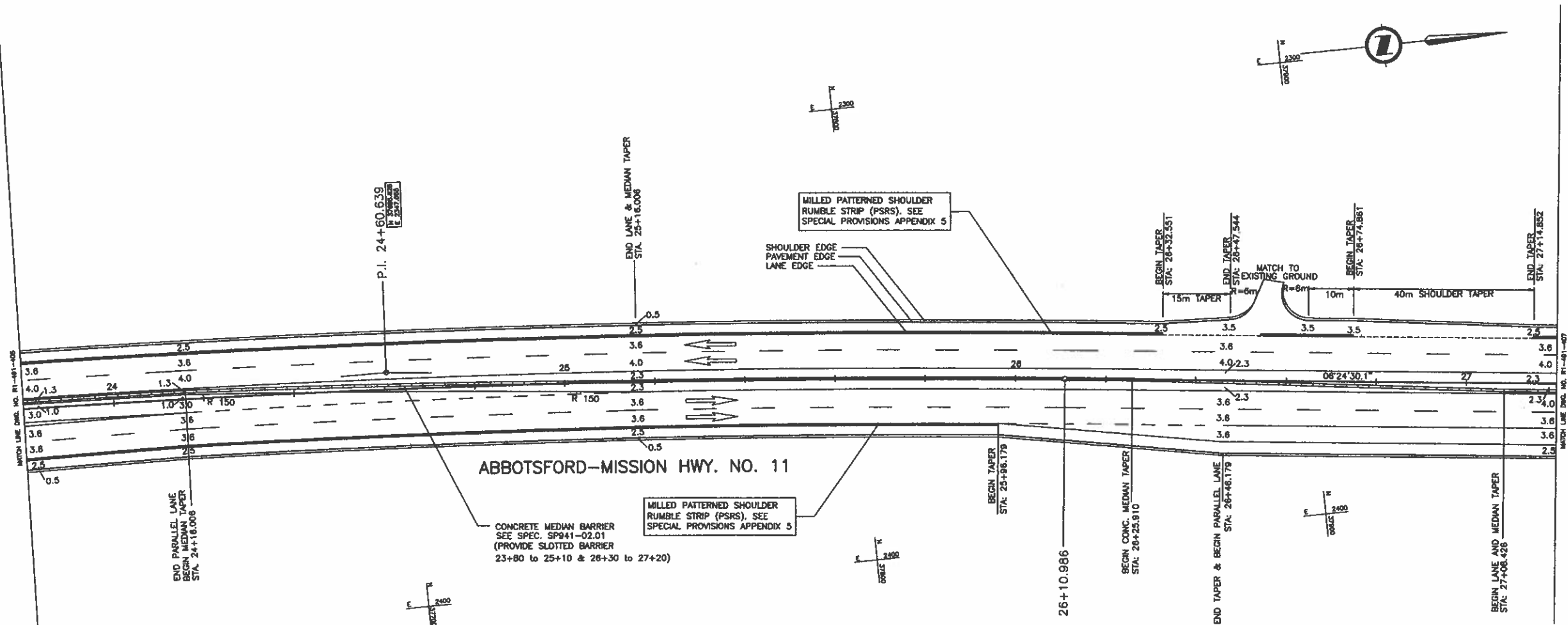
FILE No.	PROJECT No.	REV.	DRAWING No.
11313	11313-0001	1	R1-491-405

CANCEL PRINTS BEARING PREVIOUS LETTER

UPDATE: MAR 10, 2006

NOTE:

HOLLOW ARROWS ARE FOR INFORMATION ONLY AND ARE NOT PAVEMENT MARKINGS.



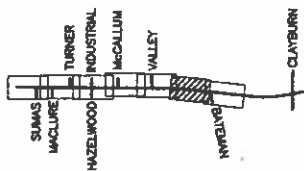
R 3000 Rt
 Δ 5'44'52"
 Δ_c 5'44'52"
 A.D. 150.6
 Arc 300.947
 Ec 3.778

DESIGN SPEED 80km/h

CONCRETE BARRIER COMPONENTS STA 23+80.000 TO 27+20.000	
CMB-E 24	SECTION(S)
CMB-H 24	SECTION(S)
CMB-E-SLOTTED 44	SECTION(S)
CMB-H-SLOTTED 44	SECTION(S)

- ALL MOVEMENTS TS7
- FOR DRAINAGE & CONSTRUCTION DETAILS
SEE DWG No. R1-491-106
- FOR SIGNING AND PAVEMENT MARKINGS
SEE DWG No. R1-491-506
- FOR SURCHARGE DRAINAGE PLAN
SEE DWG No. R1-491-606

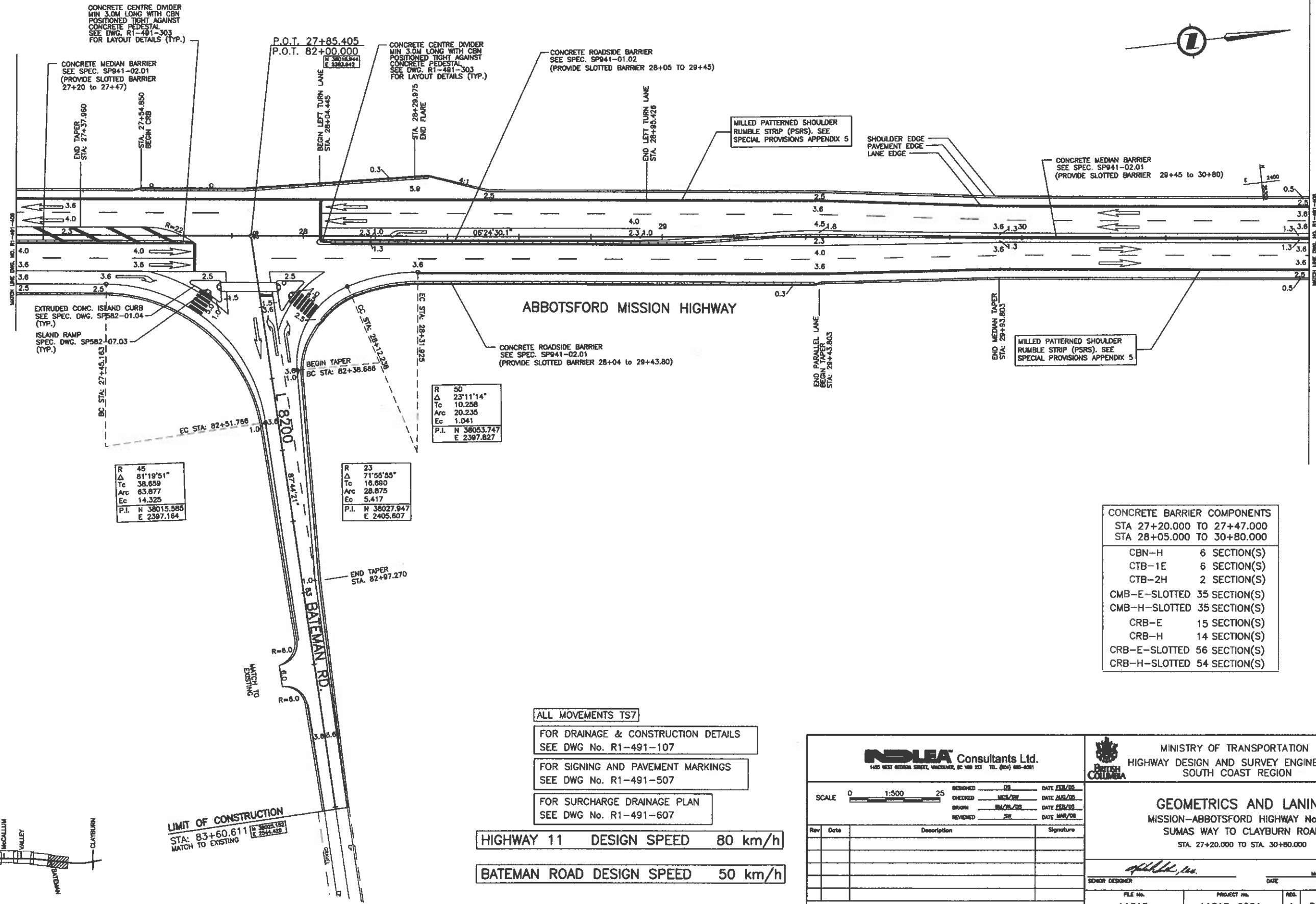
FILE: 14370406



1405 WEST GEORGE STREET, VIKTORIA, BC V8S 2T5 TEL. (250) 685-4381		MINISTRY OF TRANSPORTATION HIGHWAY DESIGN AND SURVEY ENGINEERING SOUTH COAST REGION	
GEOMETRICS AND LANING MISSION-ABBOTSFORD HIGHWAY No. 11 SUMAS WAY TO CLAYBURN ROAD STA. 23+80.000 TO STA. 27+20.000		DATE: MAR 10 2008	
SCALE: 0 1:500 25		SENIOR DESIGNER: <i>[Signature]</i> DATE:	
DESIGNED: JT DATE: FEB/08 CHECKED: MCS DATE: SEP/08 DRAWN: SM/ML DATE: FEB/08 REVIEWED: SP DATE: MAR/08		FILE No. 11313 PROJECT No. 11313-0001 REV. 1 DRAWING No. R1-491-406	
REVISIONS		CANCEL PRINTS BEARING PREVIOUS LETTER	

UPDATE: MAR 10, 2008

NOTE: HOLLOW ARROWS ARE FOR INFORMATION ONLY AND ARE NOT PAVEMENT MARKINGS.



CONCRETE CENTRE DIVIDER
MIN 3.0M LONG WITH CBN
POSITIONED TIGHT AGAINST
CONCRETE PEDESTAL
SEE DWG. R1-491-303
FOR LAYOUT DETAILS (TYP.)

CONCRETE MEDIAN BARRIER
SEE SPEC. SP941-02.01
(PROVIDE SLOTTED BARRIER
27+20 TO 27+47)

END TAPER
STA. 27+537.960

STA. 27+54.850
BEGIN CRB

P.O.T. 27+85.405
P.O.T. 82+00.000

BEGIN LEFT TURN LANE
STA. 28+04.445

CONCRETE CENTRE DIVIDER
MIN 3.0M LONG WITH CBN
POSITIONED TIGHT AGAINST
CONCRETE PEDESTAL
SEE DWG. R1-491-303
FOR LAYOUT DETAILS (TYP.)

STA. 28+29.875
END FLARE

CONCRETE ROADSIDE BARRIER
SEE SPEC. SP941-01.02
(PROVIDE SLOTTED BARRIER 28+05 TO 29+45)

END LEFT TURN LANE
STA. 28+85.428

MILLED PATTERNED SHOULDER
RUMBLE STRIP (PSRS). SEE
SPECIAL PROVISIONS APPENDIX 5

SHOULDER EDGE
PAVEMENT EDGE
LANE EDGE

CONCRETE MEDIAN BARRIER
SEE SPEC. SP941-02.01
(PROVIDE SLOTTED BARRIER 29+45 TO 30+80)

EXTRUDED CONC. ISLAND CURB
SEE SPEC. DWG. SP582-01.04
(TYP.)

ISLAND RAMP
SPEC. DWG. SP582-07.03
(TYP.)

BC STA. 27+46.163

EC STA. 82+51.788

ABBOTSFORD MISSION HIGHWAY

CONCRETE ROADSIDE BARRIER
SEE SPEC. SP941-02.01
(PROVIDE SLOTTED BARRIER 28+04 TO 29+43.80)

R 50
Δ 23°11'14"
Tc 10.258
Arc 20.235
Ec 1.041
P.I. N 38053.747
E 2397.827

R 45
Δ 81°19'51"
Tc 38.659
Arc 63.877
Ec 14.325
P.I. N 38015.585
E 2397.184

R 23
Δ 71°55'55"
Tc 18.690
Arc 28.875
Ec 5.417
P.I. N 38027.947
E 2405.607

END TAPER
STA. 82+97.270

CONCRETE BARRIER COMPONENTS

STA 27+20.000 TO 27+47.000	
STA 28+05.000 TO 30+80.000	
CBN-H	6 SECTION(S)
CTB-1E	6 SECTION(S)
CTB-2H	2 SECTION(S)
CMB-E-SLOTTED	35 SECTION(S)
CMB-H-SLOTTED	35 SECTION(S)
CRB-E	15 SECTION(S)
CRB-H	14 SECTION(S)
CRB-E-SLOTTED	56 SECTION(S)
CRB-H-SLOTTED	54 SECTION(S)

ALL MOVEMENTS TS7

FOR DRAINAGE & CONSTRUCTION DETAILS
SEE DWG No. R1-491-107

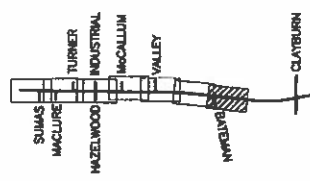
FOR SIGNING AND PAVEMENT MARKINGS
SEE DWG No. R1-491-507

FOR SURCHARGE DRAINAGE PLAN
SEE DWG No. R1-491-607

HIGHWAY 11 DESIGN SPEED 80 km/h

BATEMAN ROAD DESIGN SPEED 50 km/h

LIMIT OF CONSTRUCTION
STA: 83+60.611
MATCH TO EXISTING



1405 WEST GEORGIA STREET, VANCOUVER, BC V6E 2E3 TEL: (604) 685-6311

MINISTRY OF TRANSPORTATION
HIGHWAY DESIGN AND SURVEY ENGINEERING
SOUTH COAST REGION

GEOMETRICS AND LANING
MISSION-ABBOTSFORD HIGHWAY No. 11
SUMAS WAY TO CLAYBURN ROAD
STA. 27+20.000 TO STA. 30+80.000

SCALE 0 1:500 25

DESIGNED: [] DATE: FEB/05
CHECKED: [] DATE: AUG/05
DRAWN: [] DATE: FEB/05
REVIEWED: [] DATE: MAR/05

Rev	Date	Description	Signature

SENIOR DESIGNER: [] DATE: MAR. 10 2005

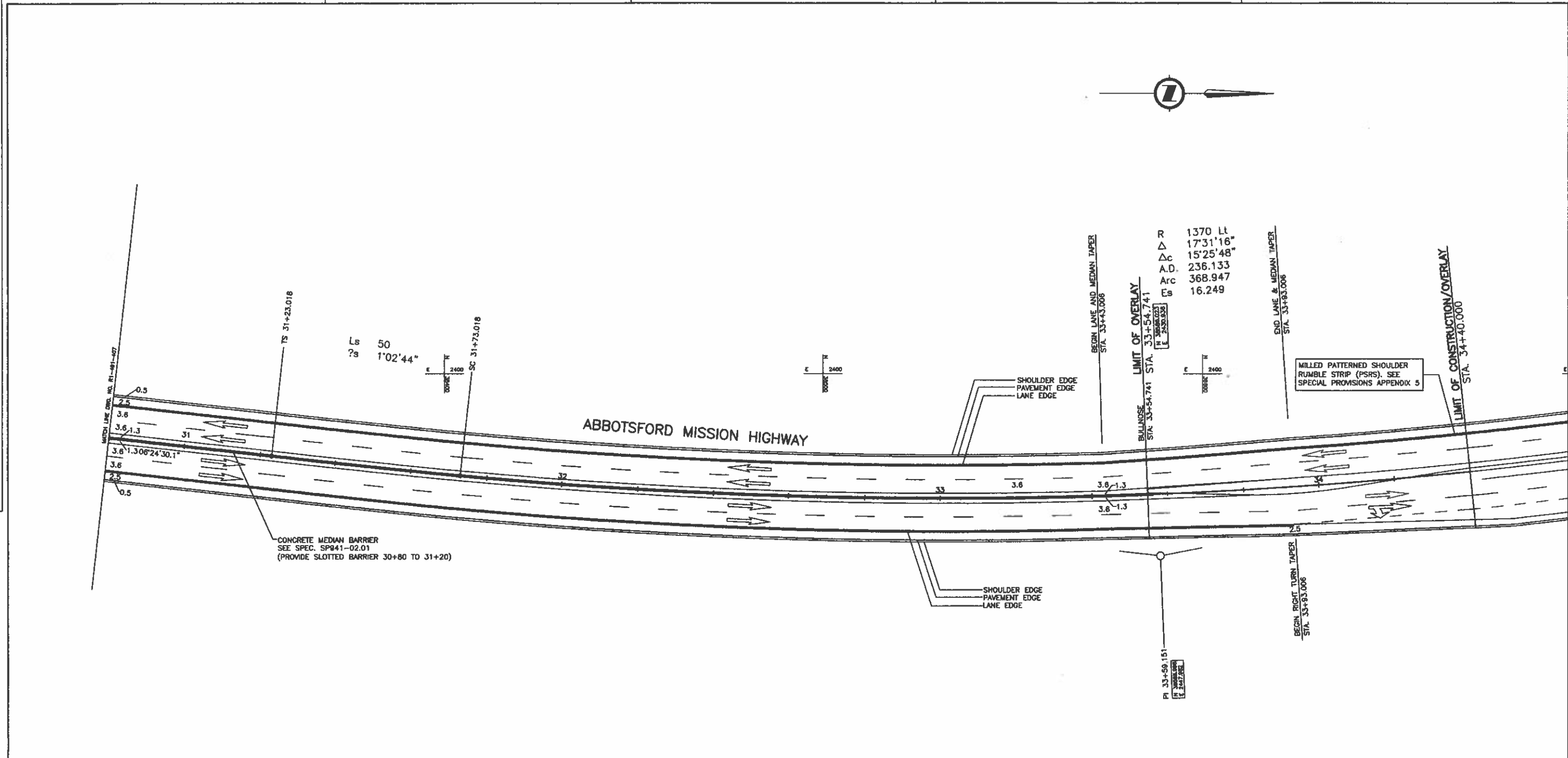
FILE No. 11313 PROJECT No. 11313-0001 REV. 1 DRAWING No. R1-491-407

REVISIONS

CANCEL PRINTS BEARING PREVIOUS LETTER

FILE: 1437M0407

UPDATE 1 MAR 10, 2005



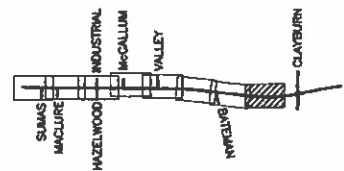
CONCRETE BARRIER COMPONENTS STA 30+80.000 TO 31+20.000	
CRB-E-SLOTTED	8 SECTION(S)
CRB-H-SLOTTED	8 SECTION(S)

DESIGN SPEED 80 km/h

ALL MOVEMENTS TS7

FOR PLAN
SEE DWG. No. R1-491-108

FOR PROFILE
SEE DWG. No. R1-491-



105 WEST GEORGIA STREET, VICTORIA, BC V8W 2T5 TEL. (250) 885-6391		MINISTRY OF TRANSPORTATION HIGHWAY DESIGN AND SURVEY ENGINEERING SOUTH COAST REGION	
SCALE 0 1:500 25		DESIGNED AT DATE FEB/05 CHECKED MCE DATE FEB/05 DRAWN DS DATE FEB/05 REVIEWED SW DATE MAR/05	
GEOMETRICS AND LANING MISSION-ABBOTSFORD HIGHWAY No. 11 SUMAS WAY TO CLAYBURN ROAD STA. 30+80.000 TO STA. 31+40.000		REMOVED DESIGNER DATE MAR. 10 2005	
REVISIONS		FILE No. 11313	PROJECT No. 11313-0001
		REVISION No. 1	DRAWING No. R1-491-408

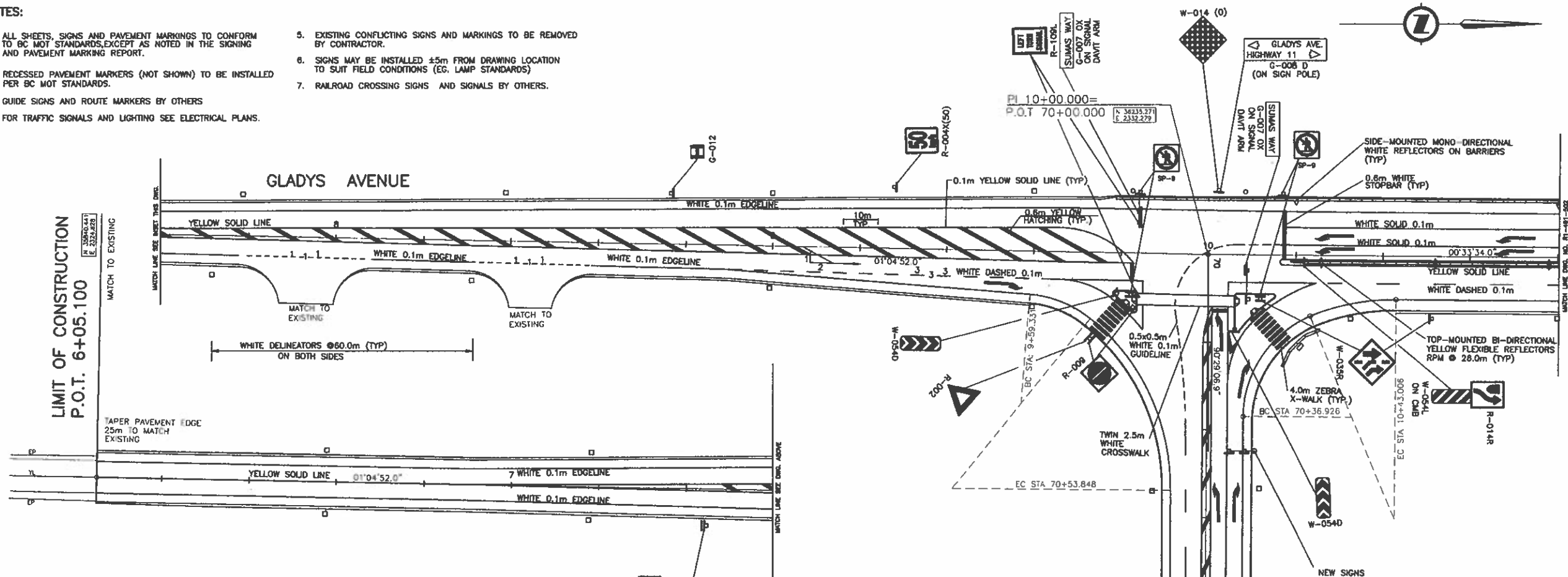
FILE: 1437M0408

UPDATE: MAR 10, 2005

CANCEL PRINTS BEARING PREVIOUS LETTER

NOTES:

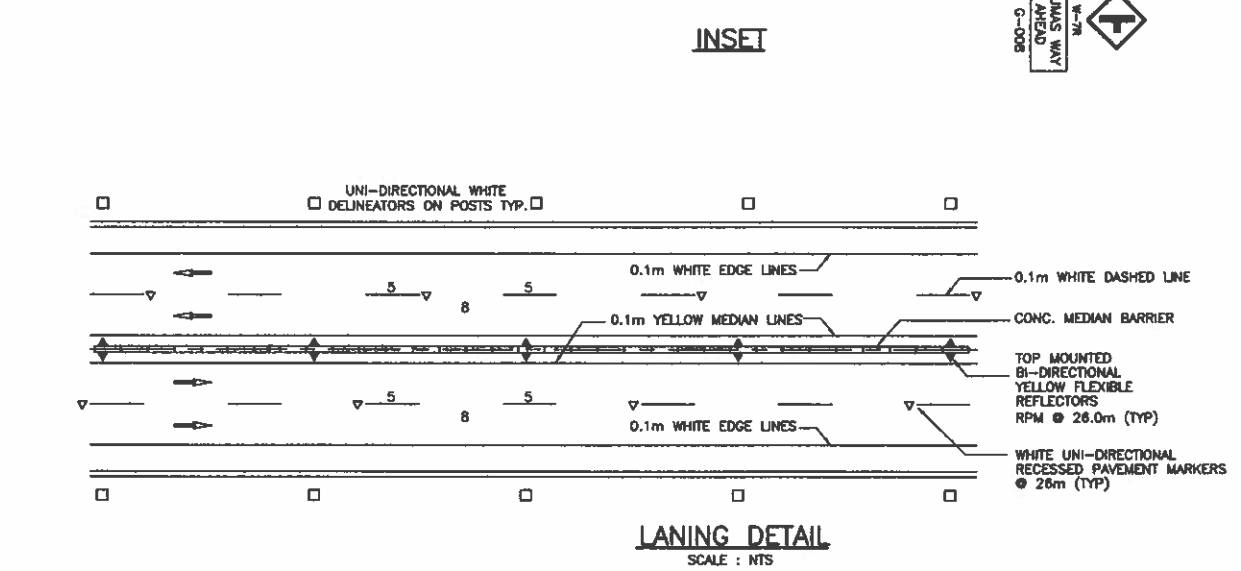
1. ALL SHEETS, SIGNS AND PAVEMENT MARKINGS TO CONFORM TO BC MOT STANDARDS, EXCEPT AS NOTED IN THE SIGNING AND PAVEMENT MARKING REPORT.
2. RECESSED PAVEMENT MARKERS (NOT SHOWN) TO BE INSTALLED PER BC MOT STANDARDS.
3. GUIDE SIGNS AND ROUTE MARKERS BY OTHERS.
4. FOR TRAFFIC SIGNALS AND LIGHTING SEE ELECTRICAL PLANS.
5. EXISTING CONFLICTING SIGNS AND MARKINGS TO BE REMOVED BY CONTRACTOR.
6. SIGNS MAY BE INSTALLED ±5m FROM DRAWING LOCATION TO SUIT FIELD CONDITIONS (EG. LAMP STANDARDS).
7. RAILROAD CROSSING SIGNS AND SIGNALS BY OTHERS.



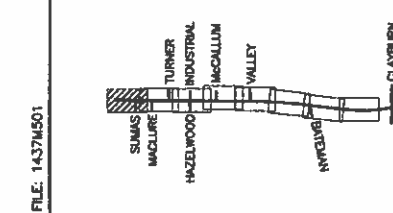
LIMIT OF CONSTRUCTION
P.O.T. 6+05.100

LIMIT OF GRADING
P.O.T. 70+75.000
MATCH TO EXISTING

LIMIT OF CONSTRUCTION
P.O.T. 71+57.000
MATCH TO EXISTING



Sign Code	Description	No. Required
R-002	Yield	1
R-004	Speed Limit (50km/h)	1
R-009	Do Not Enter	2
R-014R	Keep Right	1
R-109L	Left Turn Signal	2
R-082L	Lane Designation - Left	1
R-082R	Lane Designation - Right	1
W-007R	Side Road Right	1
W-014(0)	Checkerboard - Oversize	1
W-035	Added Lane Sign	2
W-054L	Object Marker - Left	1
W-054D	Object Marker - Double	2
W-055	Delineators - White	16
	Top Mounted Yellow Flexible Reflectors	3
	Side Mounted white reflectors on Barriers	2
	Recessed Pavement Markers	36
G-007 0X	Street Name - Large	2
G-008	Street Name Ahead	1
G-008D	Street Name Double	1
G-012	Information - Hospital	1
SP-009	No Pedestrian x-ing	4



ALL MOVEMENTS TS7

FOR PLAN
SEE DWG. No. R1-491-101

FOR SPOT ELEVATION
SEE DWG. No. R1-491-701

HIGHWAY 11 DESIGN SPEED 80 km/h

SUMAS WAY DESIGN SPEED 50 km/h

GLADYS AVE DESIGN SPEED 50 km/h

NDIA Consultants Ltd.
1405 WEST BURNHAM STREET, VANCOUVER, BC V6J 2T2 TEL: (604) 685-0301

MINISTRY OF TRANSPORTATION
HIGHWAY DESIGN AND SURVEY ENGINEERING
SOUTH COAST REGION

SCALE 0 1:500 25

DESIGNED: JF DATE FEB/08
CHECKED: FSA DATE OCT/08
DRAWN: FA DATE FEB/08
REVIEWED: SW DATE MAR/08

SIGNING AND PAVEMENT MARKINGS
MISSION-ABBOTSFORD HIGHWAY No. 11
SUMAS WAY TO CLAYBURN ROAD
STA. 6+05.100 TO STA. 10+80.000

DATE: MAR 31 2008

REVISIONS

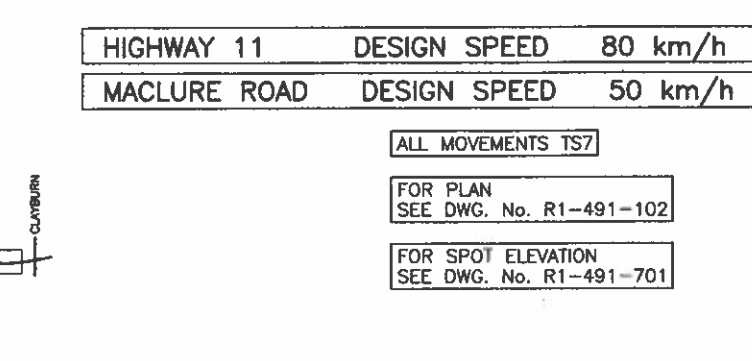
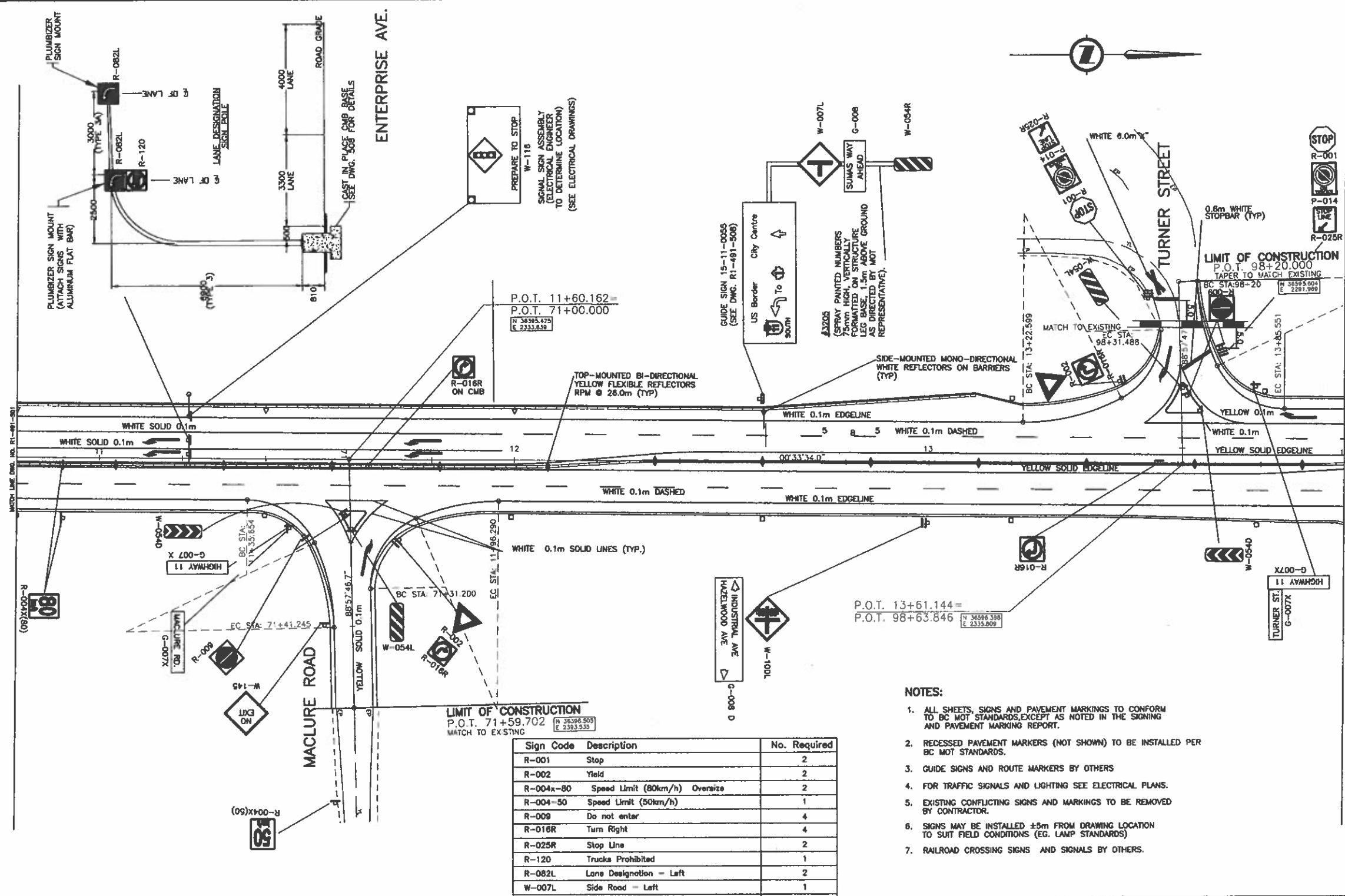
Rev	Date	Description	Signature

FILE No.	PROJECT No.	REV.	DRAWING No.
11313	11313-0001	1	R1-491-501

FILE: 1437M501

UPDATE: MAR 31, 2008

CANCEL PRINTS BEARING PREVIOUS LETTER



HIGHWAY 11 DESIGN SPEED 80 km/h
 MACLURE ROAD DESIGN SPEED 50 km/h

ALL MOVEMENTS TS7
 FOR PLAN SEE DWG. No. R1-491-102
 FOR SPOT ELEVATION SEE DWG. No. R1-491-701

Sign Code	Description	No. Required
R-001	Stop	2
R-002	Yield	2
R-004x-80	Speed Limit (80km/h) Oversize	2
R-004-50	Speed Limit (50km/h)	1
R-009	Do not enter	4
R-018R	Turn Right	4
R-025R	Stop Line	2
R-120	Trucks Prohibited	1
R-082L	Lane Designation - Left	2
W-007L	Side Road - Left	1
W-0100L	Railway Crossing Ahead - Side Road Left	1
W-116*	Prepare to Stop - (* See Electr. Dwg's)	1
W-054D	Object Marker - Double	2
W-054L	Object Marker - Left	2
W-054R	Object Marker - Right	1
W-055	Delimiters - White	7
W-145	No Exit	1
Top Mounted Yellow Flexible Reflectors		12
Side Mounted White Reflectors on Barriers Reflectors		3
Recessed Pavement Markers		30
P-104	No Stopping on Tracks	1
G-007X	Street Name - Large	4
G-008 (D)	Street Name - (Double)	1
G-008	Street Name - Ahead	1

- NOTES:**
- ALL SHEETS, SIGNS AND PAVEMENT MARKINGS TO CONFORM TO BC MOT STANDARDS, EXCEPT AS NOTED IN THE SIGNING AND PAVEMENT MARKING REPORT.
 - RECESSED PAVEMENT MARKERS (NOT SHOWN) TO BE INSTALLED PER BC MOT STANDARDS.
 - GUIDE SIGNS AND ROUTE MARKERS BY OTHERS
 - FOR TRAFFIC SIGNALS AND LIGHTING SEE ELECTRICAL PLANS.
 - EXISTING CONFLICTING SIGNS AND MARKINGS TO BE REMOVED BY CONTRACTOR.
 - SIGNS MAY BE INSTALLED ±5m FROM DRAWING LOCATION TO SUIT FIELD CONDITIONS (EG. LAMP STANDARDS)
 - RAILROAD CROSSING SIGNS AND SIGNALS BY OTHERS.

INDIA Consultants Ltd.
 148 WEST GEORGIA STREET, VANCOUVER, BC V6B 2Z3 TEL: (604) 688-9301

SCALE 0 1:500 25

DESIGNED: JN DATE FEB/05
 CHECKED: FSA DATE FEB/05
 DRAWN: SA DATE FEB/05
 REVIEWED: SW DATE MAR/05

Rev	Date	Description	Signature

REVISIONS

MINISTRY OF TRANSPORTATION
 HIGHWAY DESIGN AND SURVEY ENGINEERING
 SOUTH COAST REGION

SIGNING AND PAVEMENT MARKINGS
 MISSION-ABBOTSFORD HIGHWAY No. 11
 SUMAS WAY TO CLAYBURN ROAD
 STA. 10+80.000 TO STA. 14+00.000

DATE: MAR 31 2005

FILE No. 11313 PROJECT No. 11313-0001 REV. 1 DRAWING No. R1-491-502

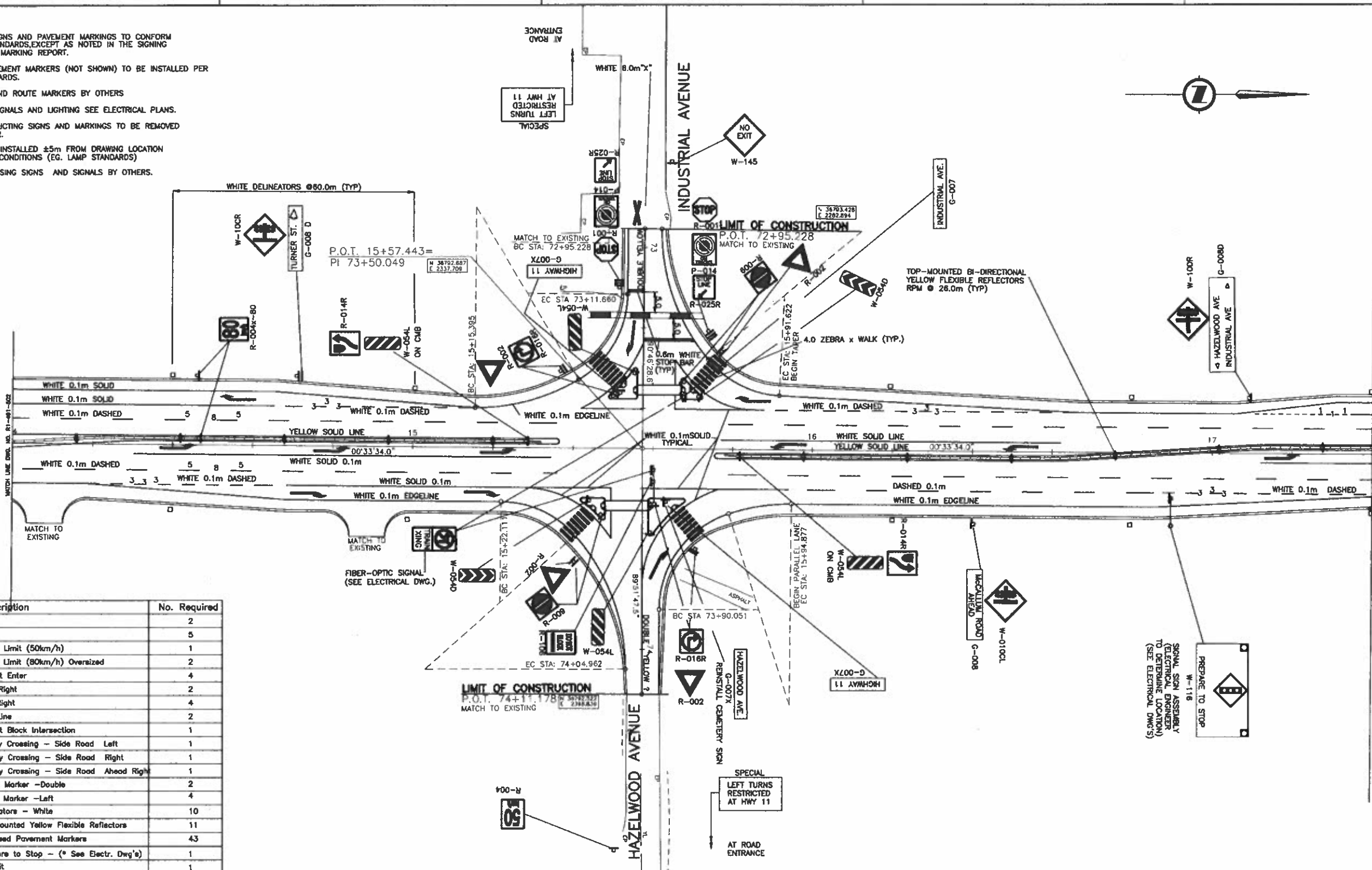
CANCEL PRINTS BEARING PREVIOUS LETTER

FILE: 1437M0502

UPDOTE: MAR 31, 2005

NOTES:

1. ALL SHEETS, SIGNS AND PAVEMENT MARKINGS TO CONFORM TO BC MOT STANDARDS, EXCEPT AS NOTED IN THE SIGNING AND PAVEMENT MARKING REPORT.
2. RECESSED PAVEMENT MARKERS (NOT SHOWN) TO BE INSTALLED PER BC MOT STANDARDS.
3. GUIDE SIGNS AND ROUTE MARKERS BY OTHERS
4. FOR TRAFFIC SIGNALS AND LIGHTING SEE ELECTRICAL PLANS.
5. EXISTING CONFLICTING SIGNS AND MARKINGS TO BE REMOVED BY CONTRACTOR.
6. SIGNS MAY BE INSTALLED ±5m FROM DRAWING LOCATION TO SUIT FIELD CONDITIONS (EG. LAMP STANDARDS)
7. RAILROAD CROSSING SIGNS AND SIGNALS BY OTHERS.



Sign Code	Description	No. Required
R-001	Stop	2
R-002	Yield	5
R-004(50)	Speed Limit (50km/h)	1
R-004X(80)	Speed Limit (80km/h) Oversized	2
R-009	Do Not Enter	4
R-014R	Keep Right	2
R-018R	Turn Right	4
R-025R	Stop Line	2
R-108	Do Not Block Intersection	1
W-010CL	Railway Crossing - Side Road Left	1
W-010CR	Railway Crossing - Side Road Right	1
W-010DR	Railway Crossing - Side Road Ahead Right	1
W-054D	Object Marker - Double	2
W-054L	Object Marker - Left	4
W-055	Defineators - White	10
	Top Mounted Yellow Flexible Reflectors	11
	Recessed Pavement Markers	43
W-118*	Prepare to Stop - (* See Electr. Dwg's)	1
W-145	No Exit	1
P-104	No Stopping on Tracks	2
G-007X	Street Name - Large	3
G-008	Street Name - Ahead	2
G-008 (D)	Street Name - Double	1
	Railway Crossing - LED No Left Turn	2
	Special	2

HIGHWAY 11 DESIGN SPEED 80 km/h
HAZELWOOD/INDUSTRIAL AVE. DESIGN SPEED 50 km/h

ALL MOVEMENTS TS7
 FOR PLAN SEE DWG. No. R1-491-103
 FOR SPOT ELEVATION SEE DWG. No. R1-491-702

INDIA Consultants Ltd.
 1408 WEST BERNARD STREET, VANCOUVER, BC V6B 2T5 TEL. (604) 683-5311

SCALE 1:500

DESIGNED: JF DATE FEB/05
 CHECKED: FSA DATE FEB/05
 DRAWN: EA DATE FEB/05
 REVIEWED: SW DATE MAR/06

Rev	Date	Description	Signature

REVISIONS

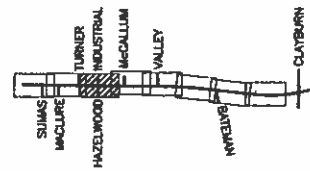
MINISTRY OF TRANSPORTATION
 HIGHWAY DESIGN AND SURVEY ENGINEERING
 SOUTH COAST REGION

SIGNING AND PAVEMENT MARKINGS
 MISSION-ABBOTSFORD HIGHWAY No. 11
 SUMAS WAY TO CLAYBURN ROAD
 STA. 14+00.000 TO STA. 17+40.000

DATE: MAR 31 2006

FILE No. 11313 PROJECT No. 11313-0001 REV. 1 DRAWING No. R1-491-503

CANCEL PRINTS BEARING PREVIOUS LETTER



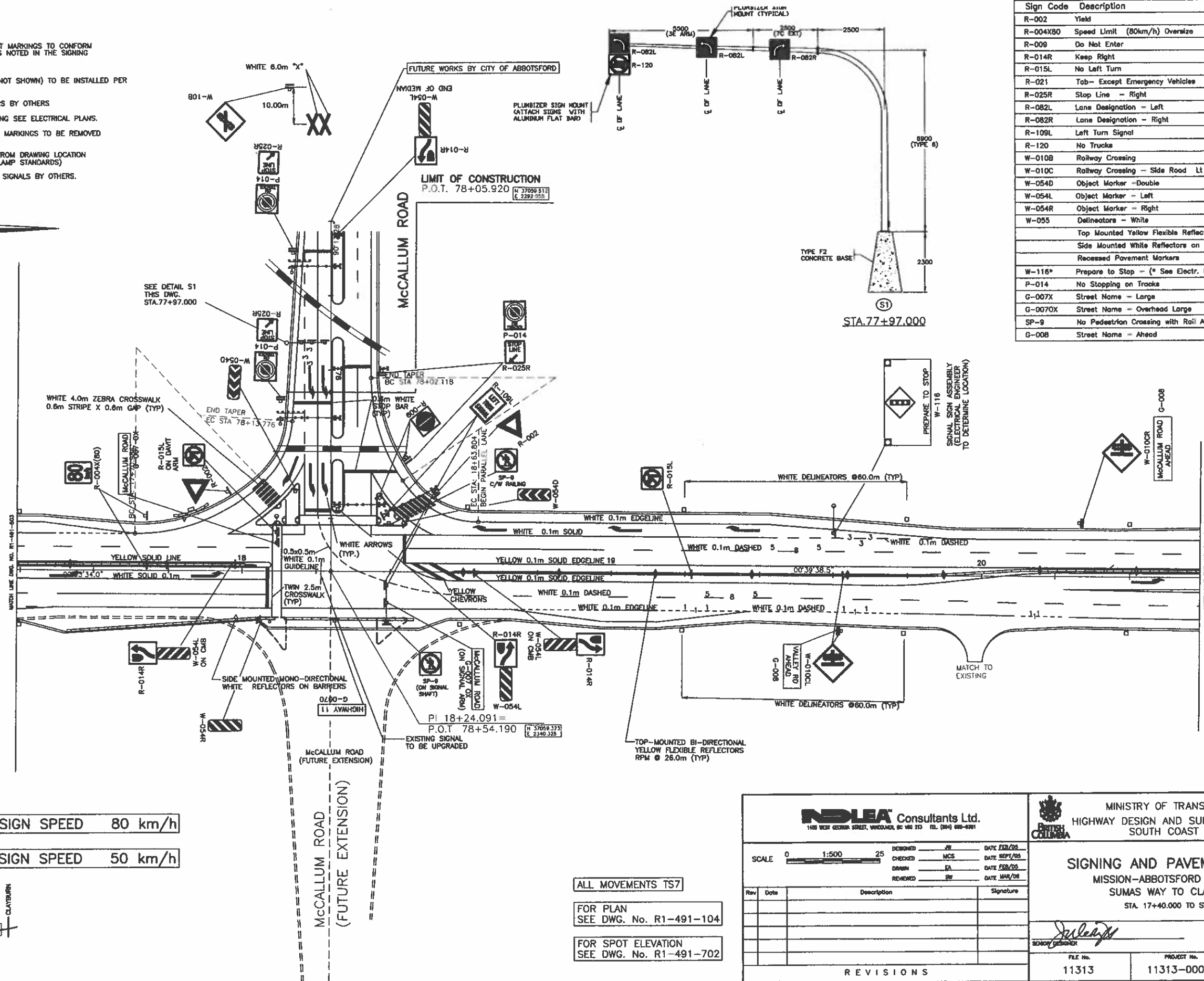
FILE: 1437M0503

UPDATE: MAR 31, 2006

NOTES:

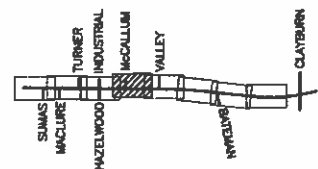
1. ALL SHEETS, SIGNS AND PAVEMENT MARKINGS TO CONFORM TO BC MOT STANDARDS, EXCEPT AS NOTED IN THE SIGNING AND PAVEMENT MARKING REPORT.
2. RECESSED PAVEMENT MARKERS (NOT SHOWN) TO BE INSTALLED PER BC MOT STANDARDS.
3. GUIDE SIGNS AND ROUTE MARKERS BY OTHERS
4. FOR TRAFFIC SIGNALS AND LIGHTING SEE ELECTRICAL PLANS.
5. EXISTING CONFLICTING SIGNS AND MARKINGS TO BE REMOVED BY CONTRACTOR.
6. SIGNS MAY BE INSTALLED ±5m FROM DRAWING LOCATION TO SUIT FIELD CONDITIONS (EG. LAMP STANDARDS)
7. RAILROAD CROSSING SIGNS AND SIGNALS BY OTHERS.

Sign Code	Description	No. Required
R-002	Yield	2
R-004X80	Speed Limit (80km/h) Oversize	2
R-008	Do Not Enter	2
R-014R	Keep Right	4
R-015L	No Left Turn	2
R-021	Tab - Except Emergency Vehicles	1
R-025R	Stop Line - Right	4
R-082L	Lane Designation - Left	2
R-082R	Lane Designation - Right	1
R-109L	Left Turn Signal	2
R-120	No Trucks	1
W-010B	Railway Crossing	1
W-010C	Railway Crossing - Side Road Lt & Rt	2
W-054D	Object Marker - Double	2
W-054L	Object Marker - Left	3
W-054R	Object Marker - Right	1
W-055	Delineators - White	8
	Top Mounted Yellow Flexible Reflectors	10
	Side Mounted White Reflectors on Barriers	2
	Recessed Pavement Markers	45
W-116*	Prepare to Stop - (* See Electr. Dwg's)	1
P-014	No Stopping on Tracks	3
G-007X	Street Name - Large	1
G-0070X	Street Name - Overhead Large	2
SP-9	No Pedestrian Crossing with Rail Assembly	2
G-008	Street Name - Ahead	2



HIGHWAY 11 DESIGN SPEED 80 km/h

McCALLUM RD. DESIGN SPEED 50 km/h



ALL MOVEMENTS TS7

FOR PLAN
SEE DWG. No. R1-491-104

FOR SPOT ELEVATION
SEE DWG. No. R1-491-702

NDLEA Consultants Ltd.
1405 WEST GEORGE STREET, WHOLESALE, BC V6E 2E3 TEL. (604) 682-0201

SCALE 0 1:500 25

DESIGNED: JH DATE FEB/05
CHECKED: MCS DATE SEP/05
DRAWN: EA DATE FEB/05
REVIEWED: SW DATE MAR/06

Rev	Date	Description	Signature

REVISIONS

MINISTRY OF TRANSPORTATION
HIGHWAY DESIGN AND SURVEY ENGINEERING
SOUTH COAST REGION

SIGNING AND PAVEMENT MARKINGS
MISSION-ABBOTSFORD HIGHWAY No. 11
SUMAS WAY TO CLAYBURN ROAD
STA. 17+40.000 TO STA. 20+60.000

DATE: MAR 31 2006

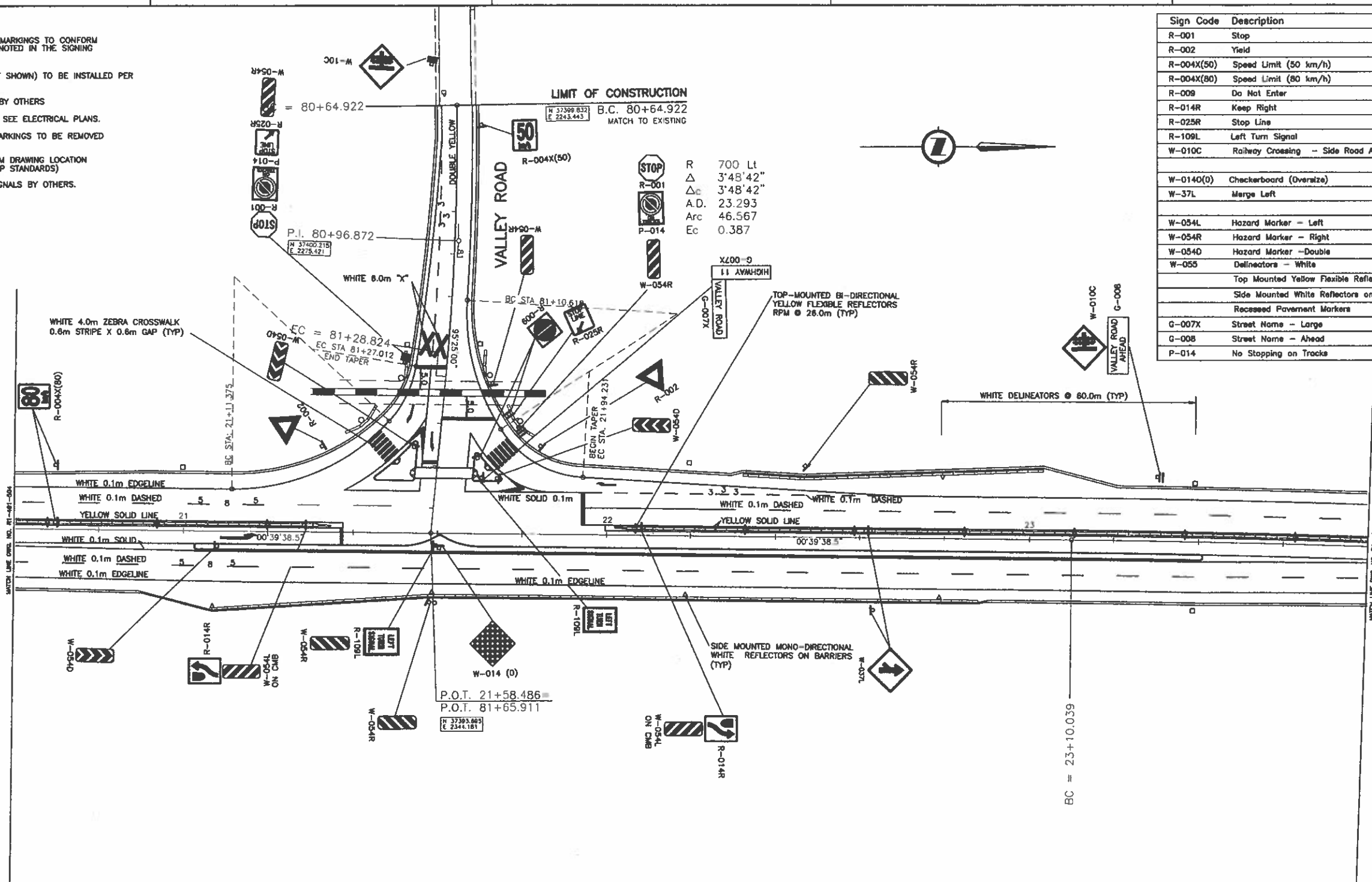
FILE No. 11313 PROJECT No. 11313-0001 REV. 1 DRAWING No. R1-491-504

CANCEL PRINTS BEARING PREVIOUS LETTER

NOTES:

- ALL SHEETS, SIGNS AND PAVEMENT MARKINGS TO CONFORM TO BC MOT STANDARDS, EXCEPT AS NOTED IN THE SIGNING AND PAVEMENT MARKING REPORT.
- RECESSED PAVEMENT MARKERS (NOT SHOWN) TO BE INSTALLED PER BC MOT STANDARDS.
- GUIDE SIGNS AND ROUTE MARKERS BY OTHERS
- FOR TRAFFIC SIGNALS AND LIGHTING SEE ELECTRICAL PLANS.
- EXISTING CONFLICTING SIGNS AND MARKINGS TO BE REMOVED BY CONTRACTOR.
- SIGNS MAY BE INSTALLED ±5m FROM DRAWING LOCATION TO SUIT FIELD CONDITIONS (EG. LAMP STANDARDS)
- RAILROAD CROSSING SIGNS AND SIGNALS BY OTHERS.

Sign Code	Description	No. Required
R-001	Stop	2
R-002	Yield	2
R-004X(50)	Speed Limit (50 km/h)	1
R-004X(80)	Speed Limit (80 km/h)	2
R-009	Do Not Enter	2
R-014R	Keep Right	2
R-025R	Stop Line	2
R-109L	Left Turn Signal	2
W-010C	Railway Crossing - Side Road Ahead	2
W-0140(0)	Checkerboard (Oversize)	1
W-37L	Merge Left	2
W-054L	Hazard Marker - Left	2
W-054R	Hazard Marker - Right	6
W-054D	Hazard Marker - Double	3
W-055	Delineators - White	6
	Top Mounted Yellow Flexible Reflectors	10
	Side Mounted White Reflectors on Barriers	5
	Recessed Pavement Markers	45
G-007X	Street Name - Large	2
G-008	Street Name - Ahead	1
P-014	No Stopping on Tracks	2



HIGHWAY 11 DESIGN SPEED 80 km/h

VALLEY ROAD DESIGN SPEED 50 km/h

ALL MOVEMENTS TS7

FOR PLAN
SEE DWG. No. R1-491-105

FOR SPOT ELEVATION
SEE DWG. No. R1-491-703

NSLEA Consultants Ltd.
1405 WEST GEORGIA STREET, VANCOUVER, BC V6E 2T3 TEL: (604) 685-6381

SCALE 0 1:500 25

DESIGNED: [Signature] DATE: FEB/05
 CHECKED: [Signature] DATE: APR/05
 DRAWN: [Signature] DATE: FEB/05
 REVIEWED: [Signature] DATE: MAR/05

Rev	Date	Description	Signature

REVISIONS

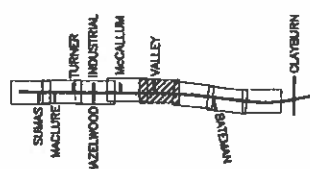
MINISTRY OF TRANSPORTATION
HIGHWAY DESIGN AND SURVEY ENGINEERING
SOUTH COAST REGION

SIGNING AND PAVEMENT MARKINGS
MISSION-ABBOTSFORD HIGHWAY No. 11
SUMAS WAY TO CLAYBURN ROAD
STA. 20+80.000 TO STA. 23+80.000

DESIGNER: [Signature] DATE: MAR 31 2005

FILE No.	PROJECT No.	REV.	DRAWING No.
11314	11313-0001	1	R1-491-505

CANCEL PRINTS BEARING PREVIOUS LETTER



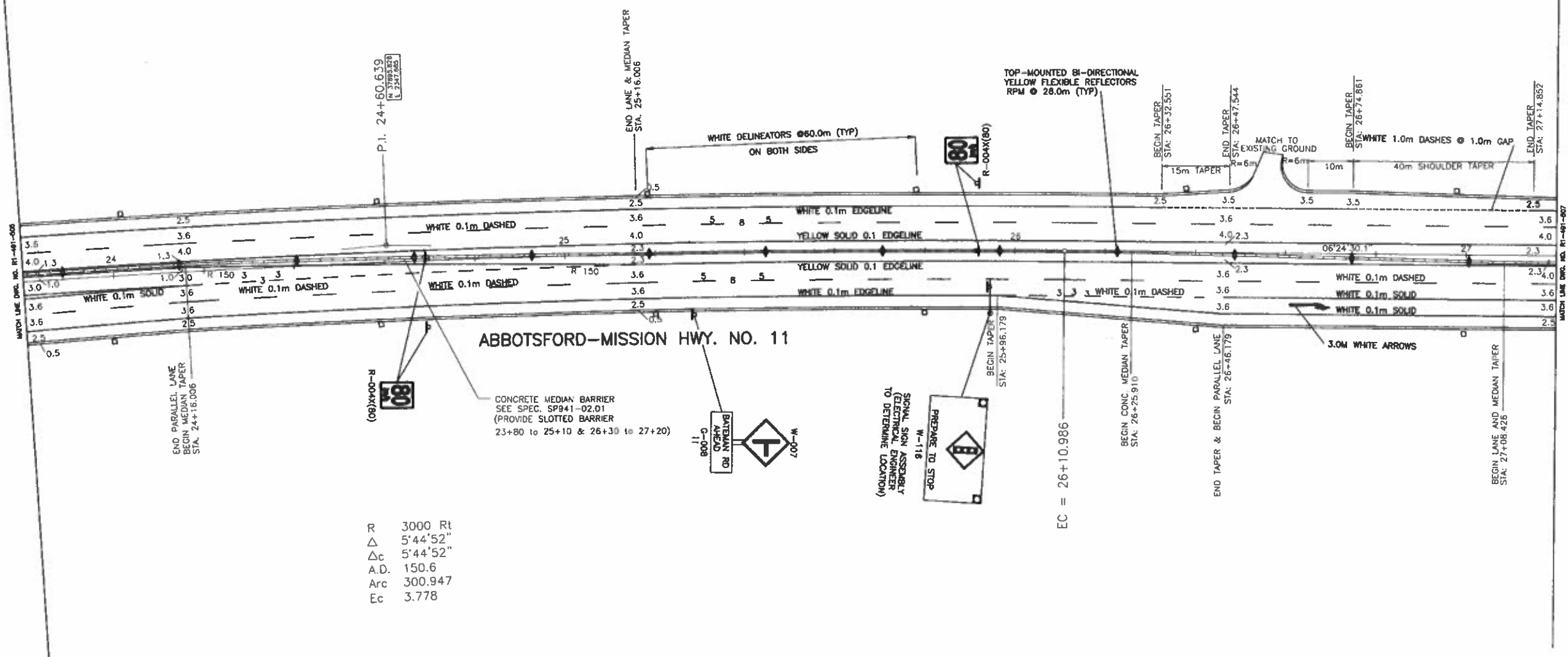
FILE: 1437M0505

UPDATE: MAR 31, 2005

NOTES:

1. ALL SHEETS, SIGNS AND PAVEMENT MARKINGS TO CONFORM TO BC MOT STANDARDS, EXCEPT AS NOTED IN THE SIGNING AND PAVEMENT MARKING REPORT.
2. RECESSED PAVEMENT MARKERS (NOT SHOWN) TO BE INSTALLED PER BC MOT STANDARDS.
3. GUIDE SIGNS AND ROUTE MARKERS BY OTHERS
4. FOR TRAFFIC SIGNALS AND LIGHTING SEE ELECTRICAL PLANS.
5. EXISTING CONFLICTING SIGNS AND MARKINGS TO BE REMOVED BY CONTRACTOR.
6. SIGNS MAY BE INSTALLED ±5m FROM DRAWING LOCATION TO SUIT FIELD CONDITIONS (EG. LAMP STANDARDS)
7. RAILROAD CROSSING SIGNS AND SIGNALS BY OTHERS.

Sign Code	Description	No. Required
R-004X(80)	Speed Limit (80 km/h)	4
W-007	Side Road	1
W-116*	Prepare to Stop - Signal Ahead	1
W-055	Delineators - White	12
	Top Mounted Yellow Flexible Reflectors	13
	Recessed Pavement Markers	31
G-008	Street Name - Ahead	1



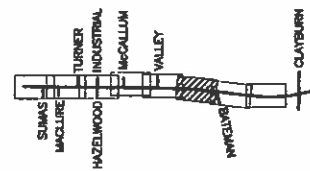
R 3000 Rt
 Δ 5'44'52"
 Δc 5'44'52"
 A.D. 150.6
 Arc 300.947
 Ec 3.778

DESIGN SPEED 80 km/h

ALL MOVEMENTS TS7

FOR PLAN
 SEE DWG. No. R1-491-106

FOR SPOT ELEVATION
 SEE DWG. No. R1-491-703



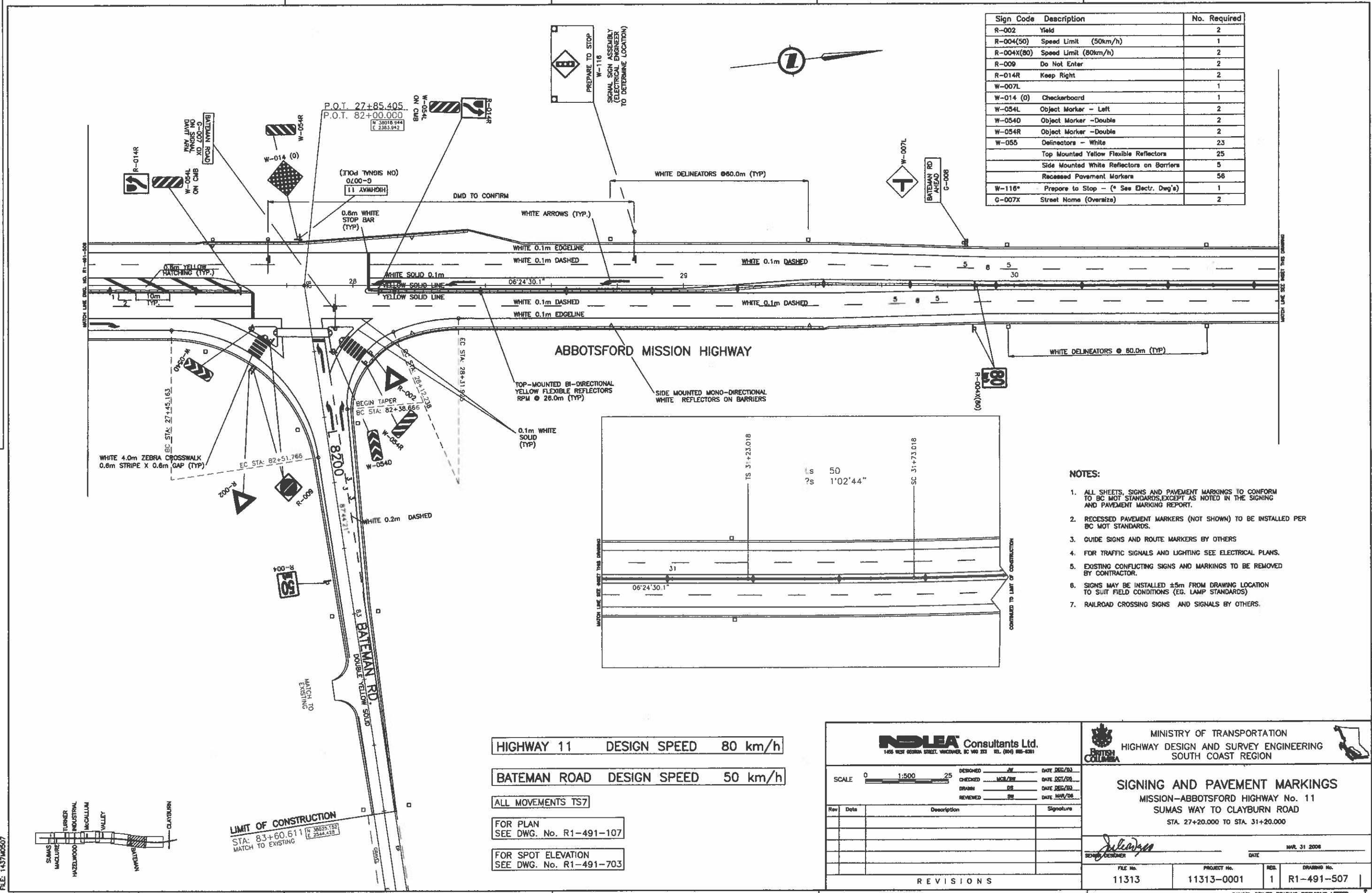
1405 WEST GEORGE STREET, VANCOUVER, BC V6C 2T3 TEL: (604) 685-6301		MINISTRY OF TRANSPORTATION HIGHWAY DESIGN AND SURVEY ENGINEERING SOUTH COAST REGION	
SCALE 0 1:500 25		DESIGNED: JT DATE FEB/05 CHECKED: FSA DATE FEB/05 DRAWN: EA DATE FEB/05 REVIEWED: BR DATE MAR/06	
SIGNING AND PAVEMENT MARKINGS MISSION-ABBOTSFORD HIGHWAY No. 11 SUMAS WAY TO CLAYBURN ROAD STA. 23+80.000 TO STA. 27+20.000		DATE: MAR 31 2006	
REVISIONS		FILE No. 11313	PROJECT No. 11313-0001
		REV. 1	DRAWING No. R1-491-506

FILE: 1437M0506

UPDATE: MAR 31, 2006

CANCEL PRINTS BEARING PREVIOUS LETTER

Sign Code	Description	No. Required
R-002	Yield	2
R-004(50)	Speed Limit (50km/h)	1
R-004X(80)	Speed Limit (80km/h)	2
R-009	Do Not Enter	2
R-014R	Keep Right	2
W-007L		1
W-014 (0)	Checkerboard	1
W-054L	Object Marker - Left	2
W-054D	Object Marker -Double	2
W-054R	Object Marker -Double	2
W-055	Delineators - White	23
	Top Mounted Yellow Flexible Reflectors	25
	Side Mounted White Reflectors on Barriers	5
	Recessed Pavement Markers	56
W-116*	Prepare to Stop - (* See Electr. Dwg's)	1
G-007X	Street Name (Oversize)	2



- NOTES:**
- ALL SHEETS, SIGNS AND PAVEMENT MARKINGS TO CONFORM TO BC MOT STANDARDS, EXCEPT AS NOTED IN THE SIGNING AND PAVEMENT MARKING REPORT.
 - RECESSED PAVEMENT MARKERS (NOT SHOWN) TO BE INSTALLED PER BC MOT STANDARDS.
 - GUIDE SIGNS AND ROUTE MARKERS BY OTHERS
 - FOR TRAFFIC SIGNALS AND LIGHTING SEE ELECTRICAL PLANS.
 - EXISTING CONFLICTING SIGNS AND MARKINGS TO BE REMOVED BY CONTRACTOR.
 - SIGNS MAY BE INSTALLED ±5m FROM DRAWING LOCATION TO SUIT FIELD CONDITIONS (EG. LAMP STANDARDS)
 - RAILROAD CROSSING SIGNS AND SIGNALS BY OTHERS.

HIGHWAY 11 DESIGN SPEED 80 km/h

BATEMAN ROAD DESIGN SPEED 50 km/h

ALL MOVEMENTS TS7

FOR PLAN
SEE DWG. No. R1-491-107

FOR SPOT ELEVATION
SEE DWG. No. R1-491-703

NDIA Consultants Ltd.
1455 WEST GEORGE STREET, VANCOUVER, BC V6J 2E3 TEL: (604) 685-6381

MINISTRY OF TRANSPORTATION
HIGHWAY DESIGN AND SURVEY ENGINEERING
SOUTH COAST REGION

SIGNING AND PAVEMENT MARKINGS
MISSION-ABBOTSFORD HIGHWAY No. 11
SUMAS WAY TO CLAYBURN ROAD
STA. 27+20.000 TO STA. 31+20.000

SCALE 0 1:500 25

DESIGNED: JF DATE: DEC/03
CHECKED: MCB/07 DATE: DEC/08
DRAWN: DS DATE: DEC/03
REVIEWED: SS DATE: MAR/08

DATE: MAR 31 2008

FILE No. 11313 PROJECT No. 11313-0001 REV. 1 DRAWING No. R1-491-507

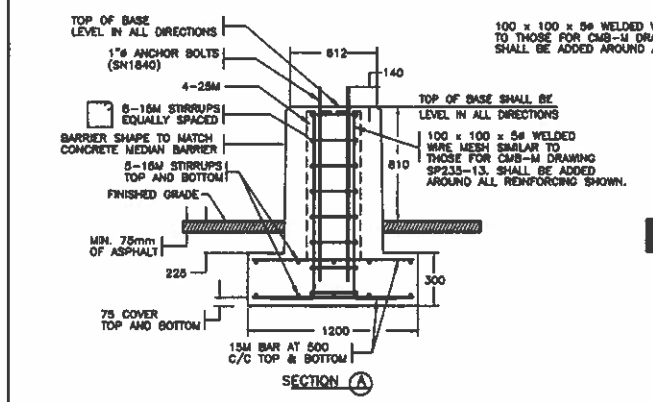
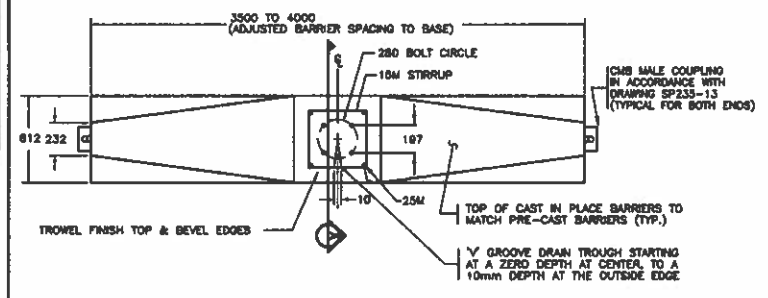
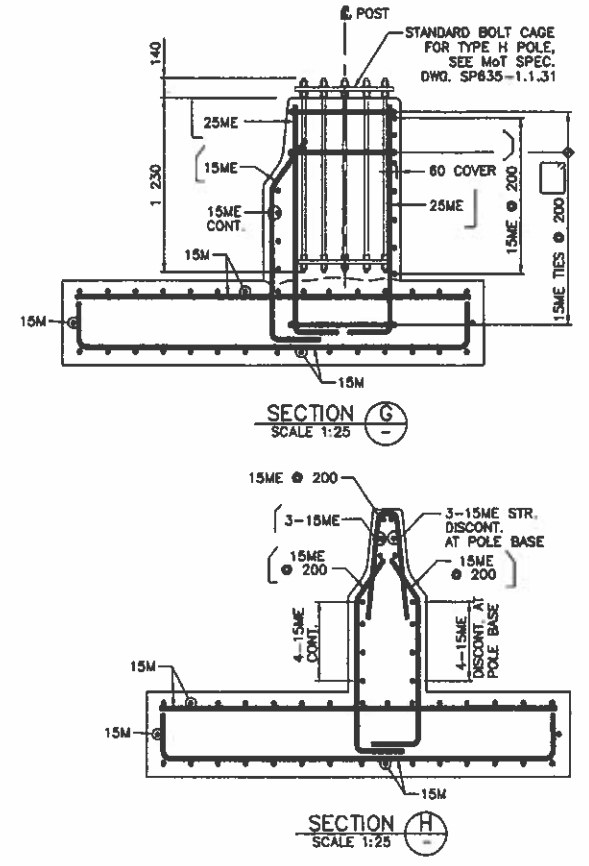
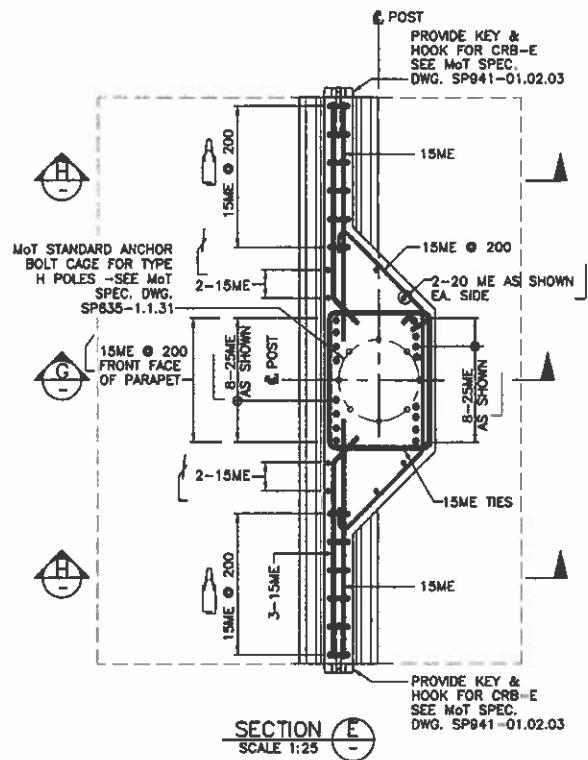
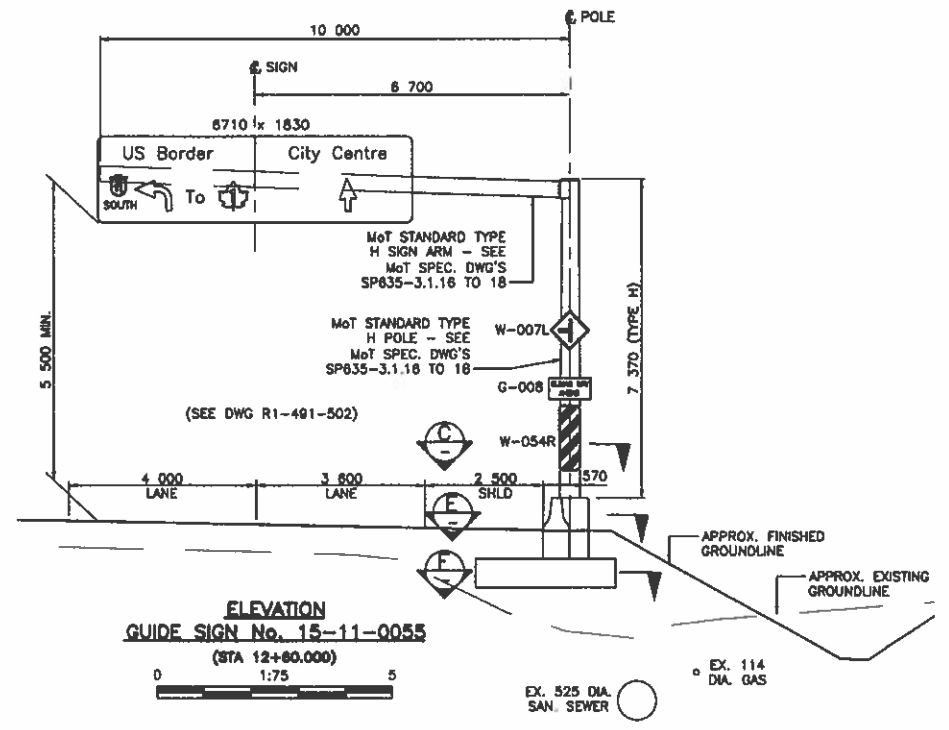
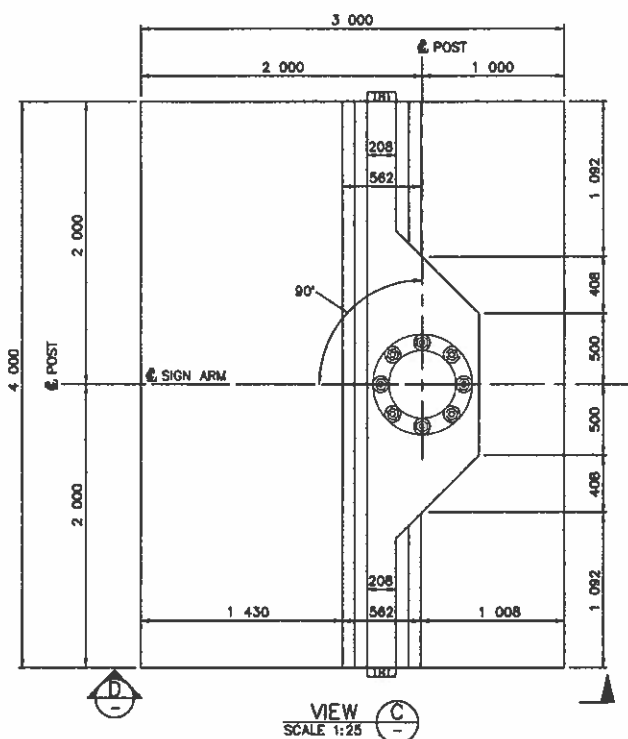
Rev	Date	Description	Signature

REVISIONS

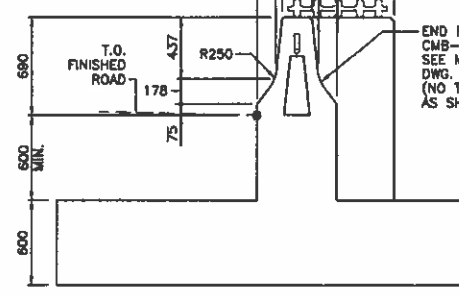
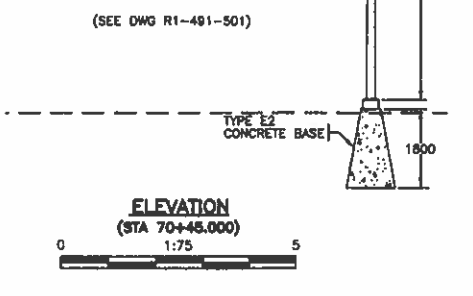
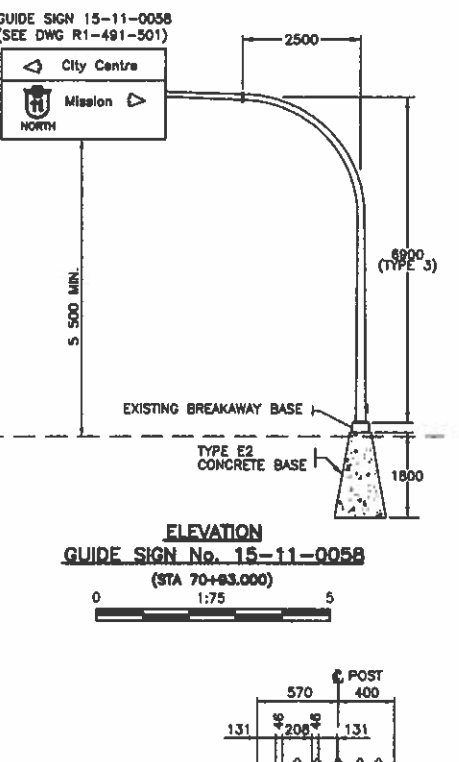
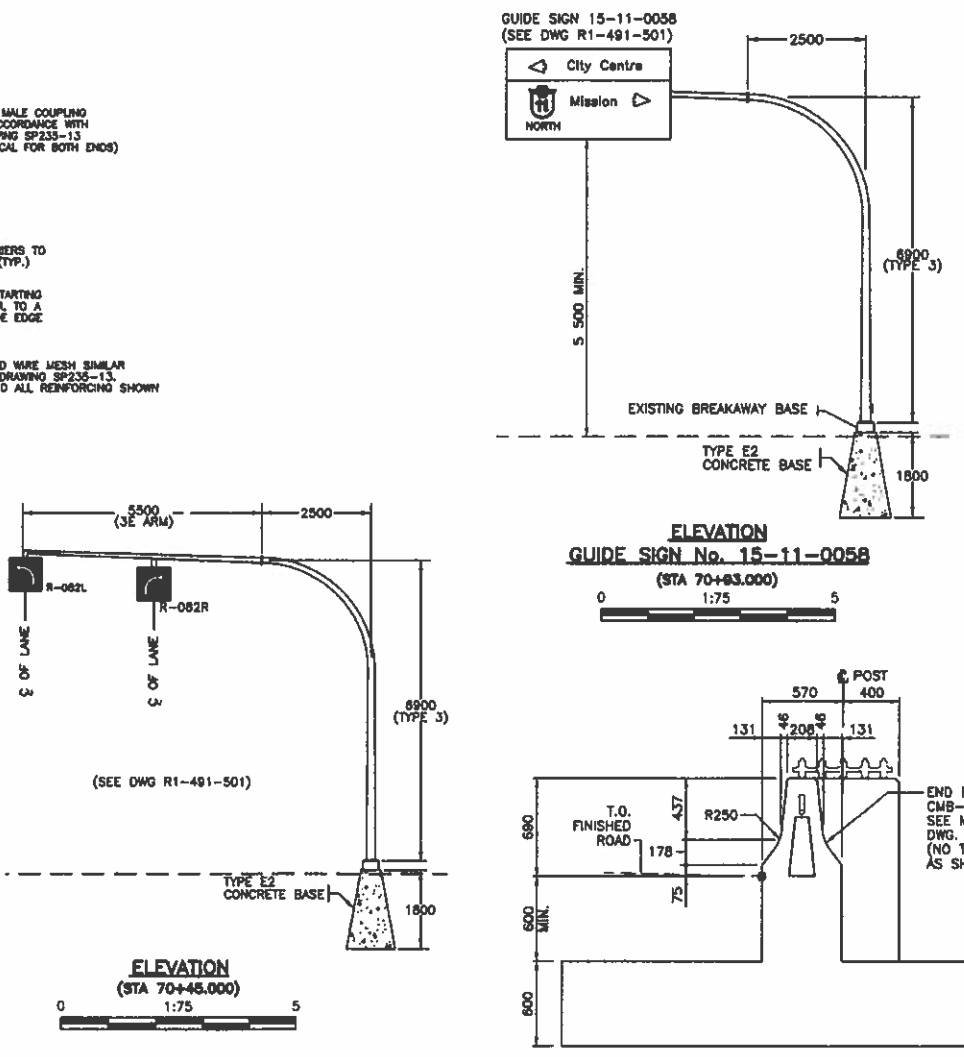
CANCEL PRINTS BEARING PREVIOUS LETTER

FILE: 1437M0507

UPDATE: MAR 31, 2008



NOTE:
TO BE STRUCTURALLY CHECKED FOR TENDER SUBMISSION



NOTES:

- CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 30 MPa @ 28 DAYS, ATTAINED PRIOR TO POLE INSTALLATION.
 - REINFORCING STEEL SHALL CONFORM TO CAN/CSA-G30.18-M92 GRADE 400R.
 - CONCRETE COVERS TO REINFORCING STEEL IN CAST-IN-PLACE CONCRETE AND TOLERANCES SHALL BE AS FOLLOWS UNLESS NOTED OTHERWISE:
- | CONCRETE COVER (mm) | TOLERANCE (mm) |
|-----------------------------------------------|----------------|
| CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH | 100 ±25 |
| EXPOSED TO EARTH OR FRESH WATER | 70 ±20 |
| NOT EXPOSED TO EARTH OR FRESH WATER | 60 ±10 |
- CONTRACTOR SHALL VERIFY UTILITY LOCATIONS PRIOR TO CONSTRUCTION.
 - FOOTINGS ARE DESIGNED FOR SOILS WITH A MINIMUM ALLOWABLE BEARING
 - ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE NOTED.
 - ALL WORK SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE MINISTRY'S STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION (2004 ISSUE) UNLESS OTHERWISE NOTED ON THESE DRAWINGS OR IN THE SPECIAL PROVISIONS.
 - BACKFILL SHALL BE S.G.S.B. IN ACCORDANCE WITH CLAUSE 202.06 OF MOT STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION. BACKFILL SHALL BE PLACED AND COMPACTED IN LAYERS NO MORE THAN 150mm THICK TO 100% STANDARD PROCTOR MAXIMUM DRY DENSITY (ASTM D-698)
 - THE PREPARED FOUNDATION SUBGRADE SHALL BE INSPECTED BY THE DESIGN ENGINEER AND GIVEN HIS APPROVAL PRIOR TO COMMENCING FOUNDATION CONSTRUCTION.
 - CONTRACTOR SHALL PROVIDE ALL MEANS NECESSARY TO ENSURE THAT EXCAVATIONS SHALL REMAIN DRY DURING CONSTRUCTION.
 - ALL EXPOSED EDGES SHALL BE CHAMFERED 20 x 20 UNLESS NOTED OTHERWISE.
 - APPLY LUBRICANT OR OTHER SUITABLE GREASE TO THE EXPOSED PORTION OF THE ANCHOR BOLTS.
 - SIGN MOUNTING HARDWARE NOT SHOWN - DETAILS AS PER MOT STANDARD SPECIFICATIONS DWG. SP835-3.3.1.1 TO 3.3.1.17.
 - GROUT UNDER BASE PLATE AFTER POLE INSTALLATION.

INDIA Consultants Ltd.
148 WEST GEORGIA STREET, VICTORIA, BC V8V 2T3 TEL. (604) 681-6301

MINISTRY OF TRANSPORTATION
HIGHWAY DESIGN AND SURVEY ENGINEERING
SOUTH COAST REGION

SIGNING AND PAVEMENT MARKINGS
MISSION-ABBOTSFORD HIGHWAY No. 11
SUMAS WAY TO CLAYBURN ROAD
DETAILS

SCALE: 1:75

DESIGNED: MKK DATE FEB/06
CHECKED: JK DATE FEB/06
DRAWN: ML/STZ DATE FEB/06
REVIEWED: STY DATE MAR/06

Rev. Date Description Signature

REVISIONS

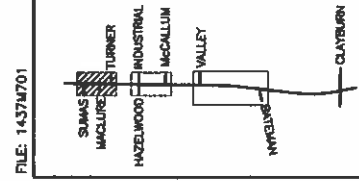
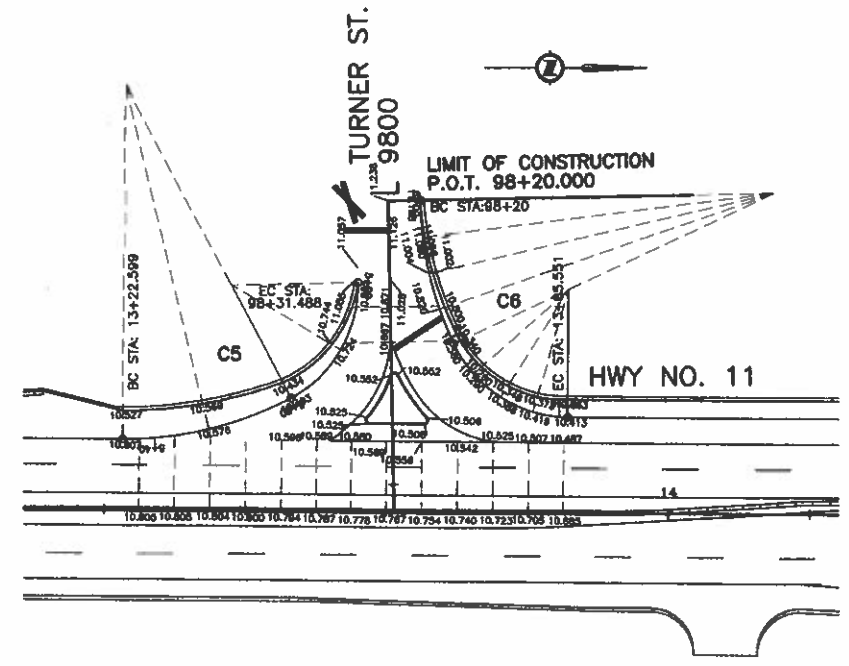
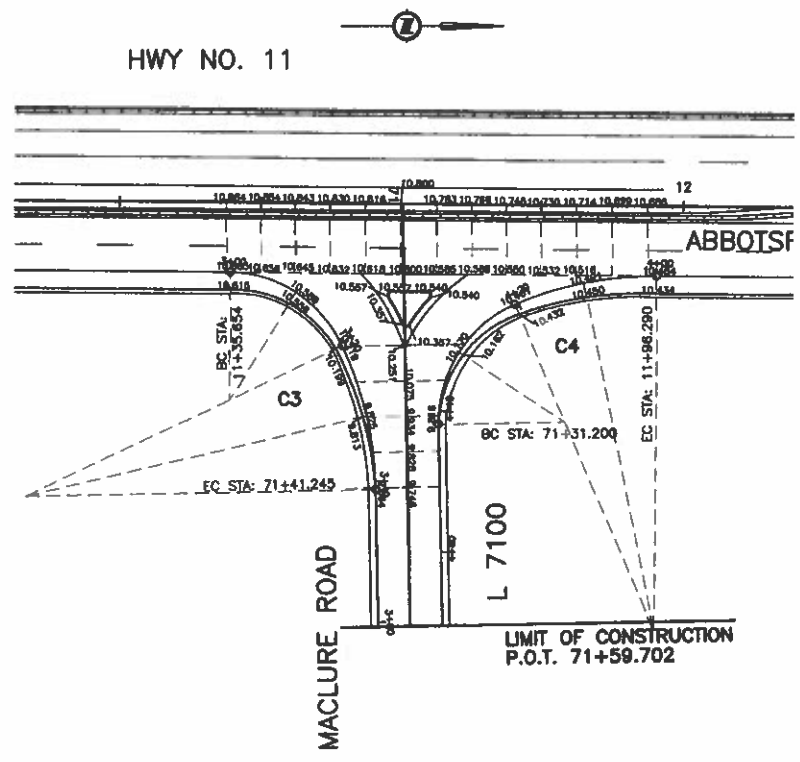
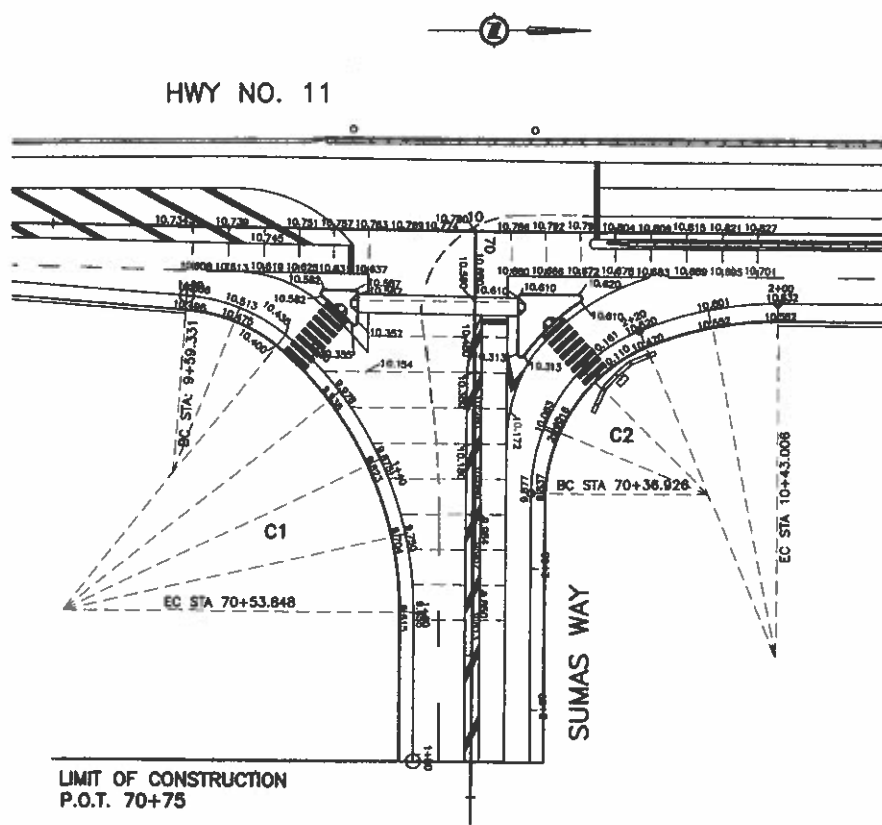
FILE No. 11313 PROJECT No. 11313-0001 1 R1-491-508

DATE: MAR 31 2006

FILE: 14376508

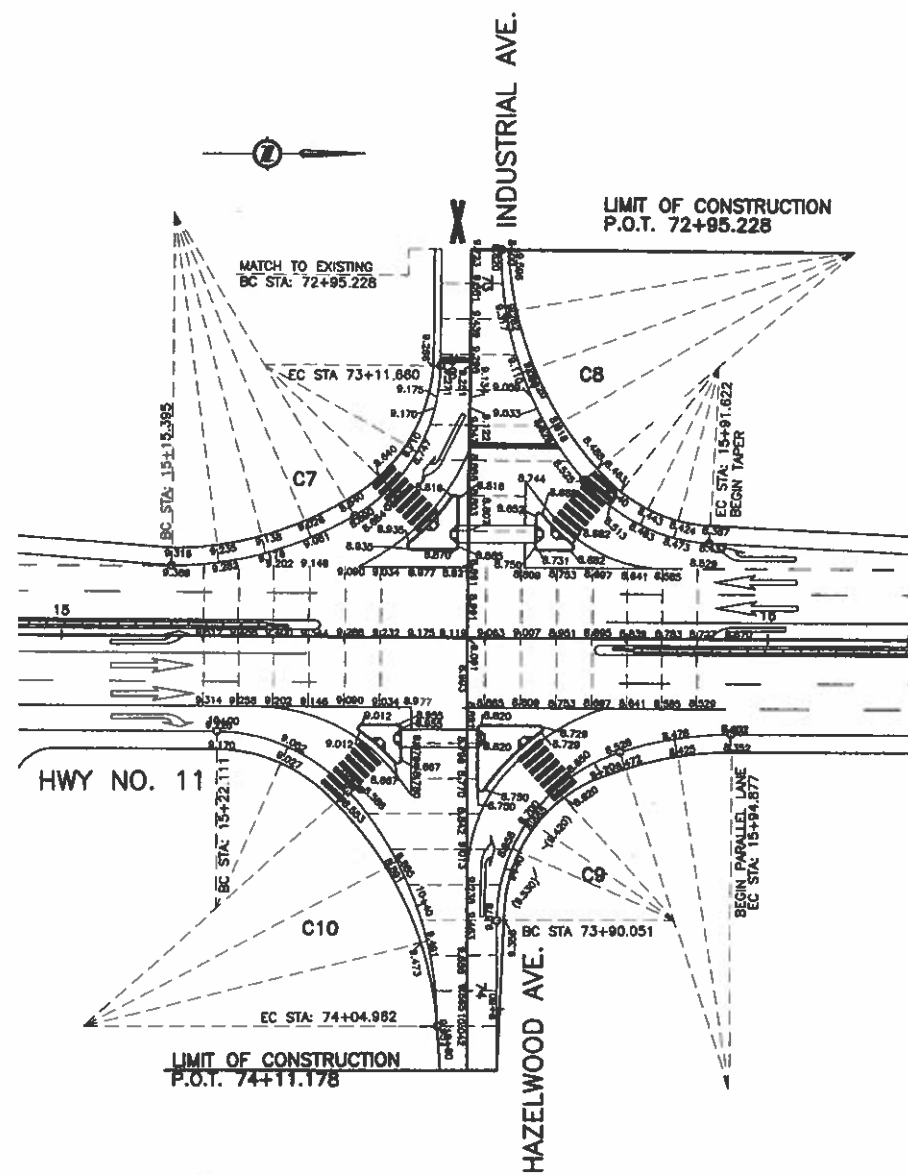
UPDATE: MAR 31 2006

CANCEL PRINTS BEARING PREVIOUS LETTER

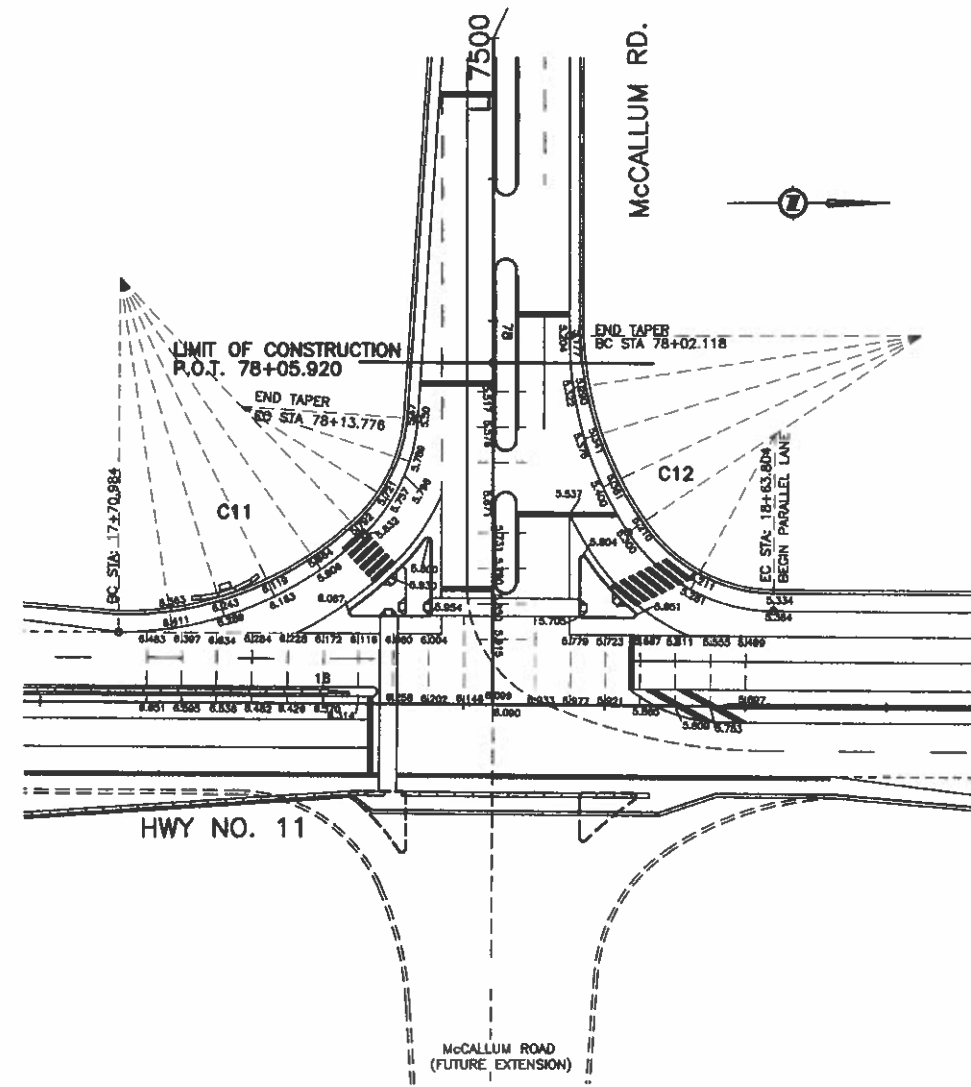


<p>1406 WEST GEORGIA STREET, VANCOUVER, BC V6B 2T3 TEL: (604) 683-6381</p>		<p>MINISTRY OF TRANSPORTATION HIGHWAY DESIGN AND SURVEY ENGINEERING SOUTH COAST REGION</p>	
<p>SCALE 0 1:500 25</p>		<p>DESIGNED: EA DATE FEB/08 CHECKED: FBA DATE AUG/08 DRAWN: RM DATE FEB/08 REVIEWED: RW DATE MAR/08</p>	
<p>Rev Date Description Signature</p>		<p>SPOT ELEVATIONS MISSION-ABBOTSFORD HIGHWAY No. 11 SUMAS WAY TO CLAYBURN ROAD SUMAS WAY, MACLURE RD AND TURNER ST</p>	
<p>REVISIONS</p>		<p>SENIOR DESIGNER: <i>[Signature]</i> DATE: MAR 10 2008</p>	
FILE No.	PROJECT No.	REL.	DRAWING No.
11313	11313-0001	1	R1-491-701
<p>CANCEL PRINTS BEARING PREVIOUS LETTER</p>			

UPDATE 7 MAR 10 2008

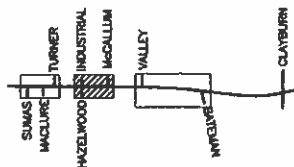


HWY No. 11/ HAZELWOOD AVE./INDUSTRIAL AVE. INTERSECTION



HWY No. 11/ McCALLUM RD. INTERSECTION

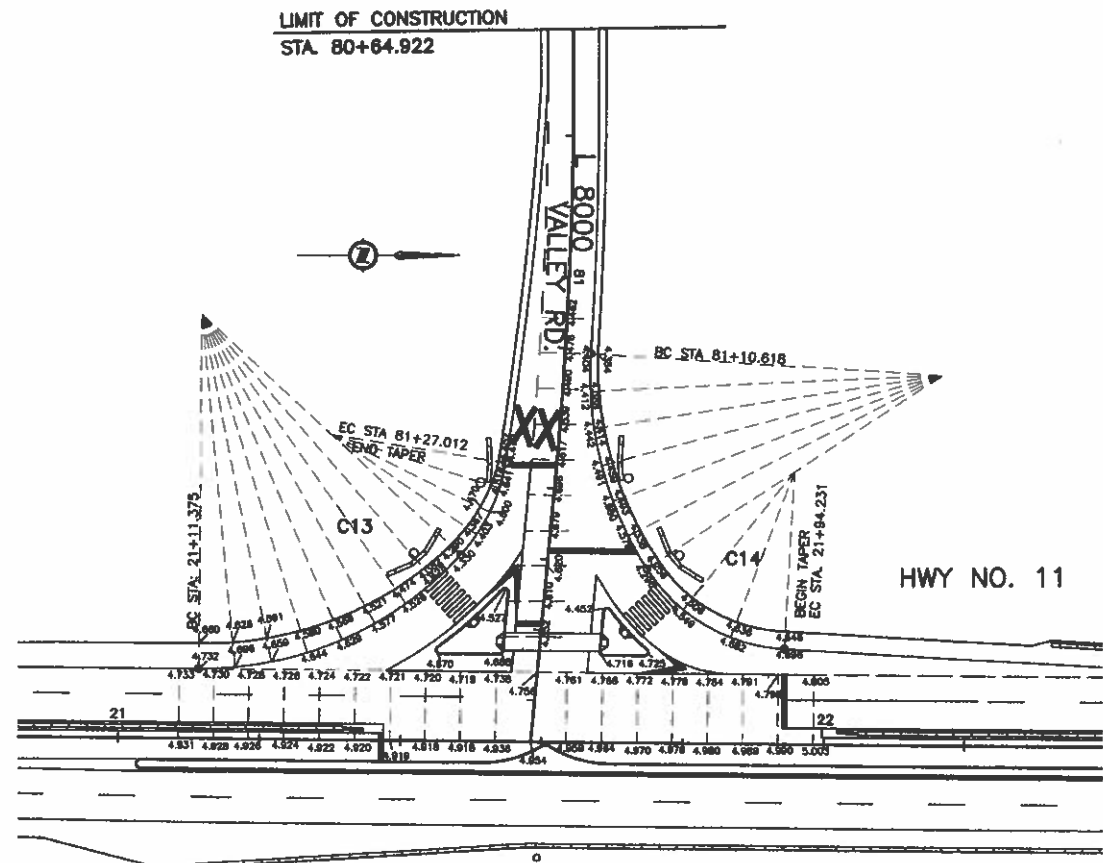
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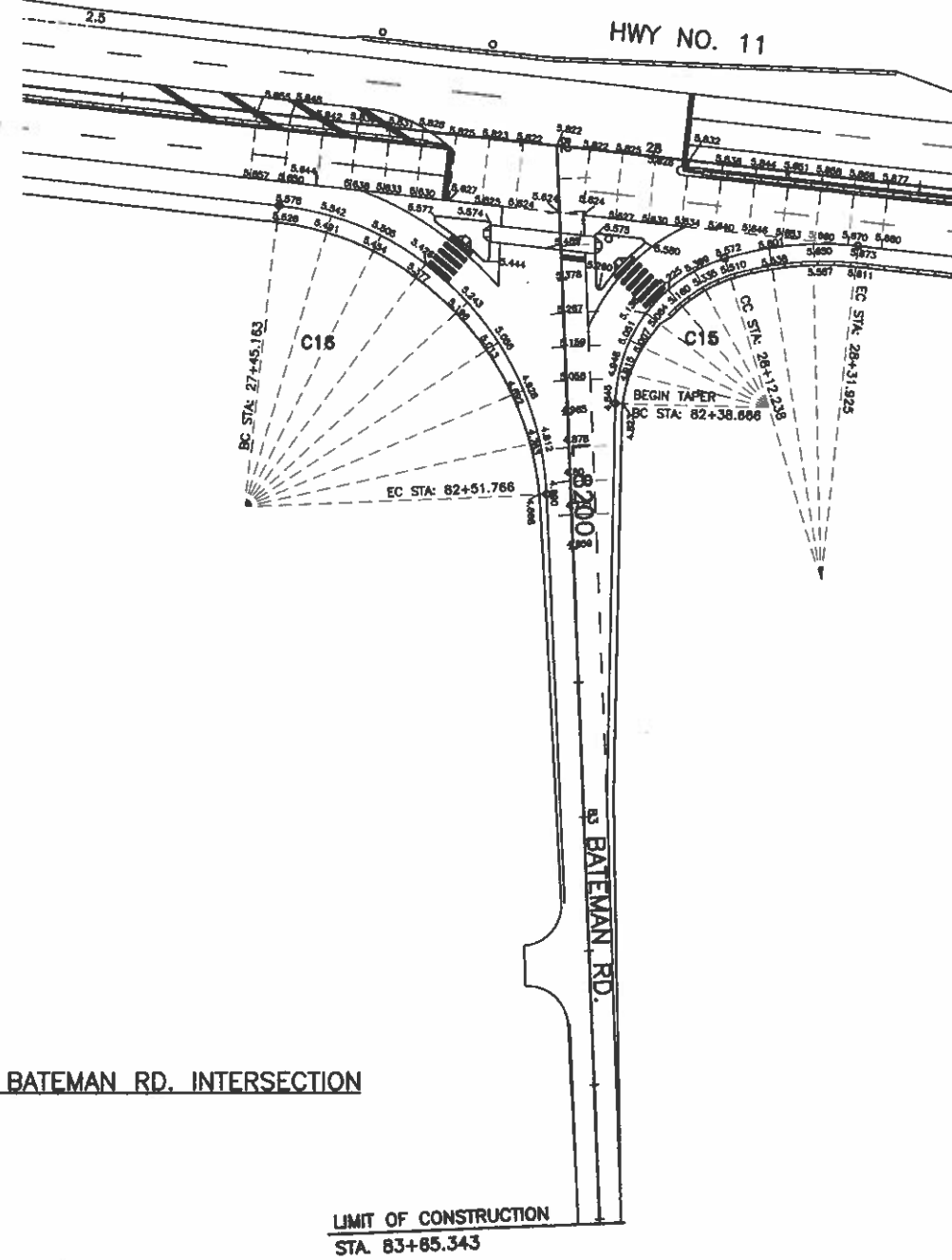
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SCALE 0 1:500 25		DESIGNED SA DATE FEB/08 CHECKED MCR DATE AUG/08 DRAWN SM DATE FEB/08 REVIEWED SW DATE MAR/08	
Rev	Date	Description	Signature
REVISIONS		SENIOR DESIGNER <i>[Signature]</i> DATE MAR 10 2008	
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11313	11313-0001	1	R1-491-702

CANCEL PRINTS BEARING PREVIOUS LETTER

UPDATE: MAR 10, 2008

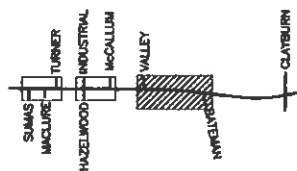


HWY No. 11/ VALLEY RD. INTERSECTION



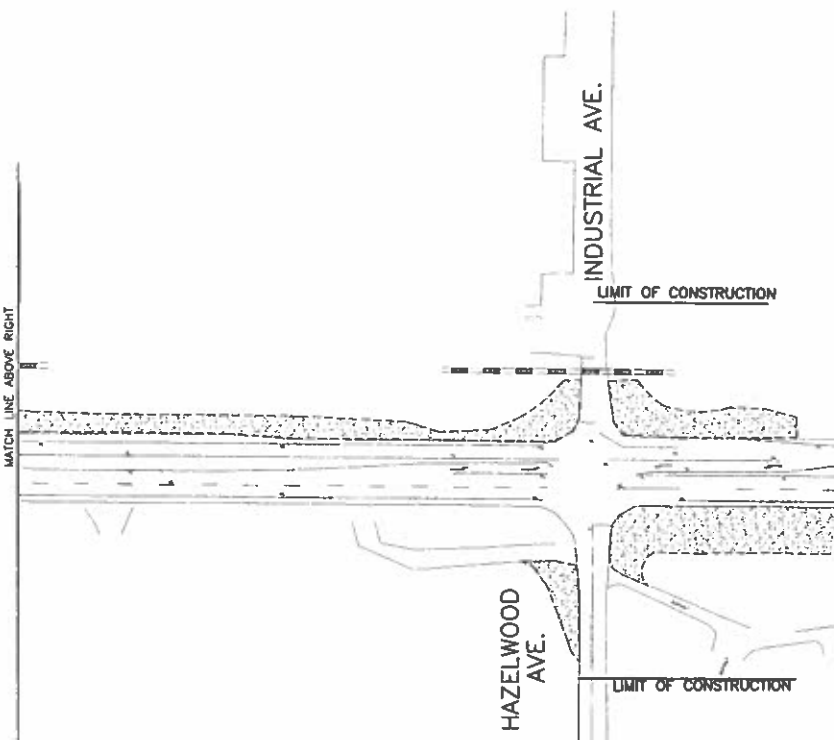
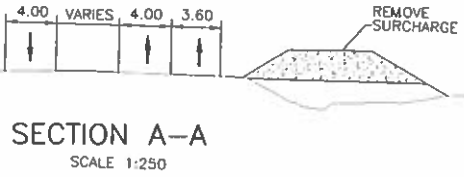
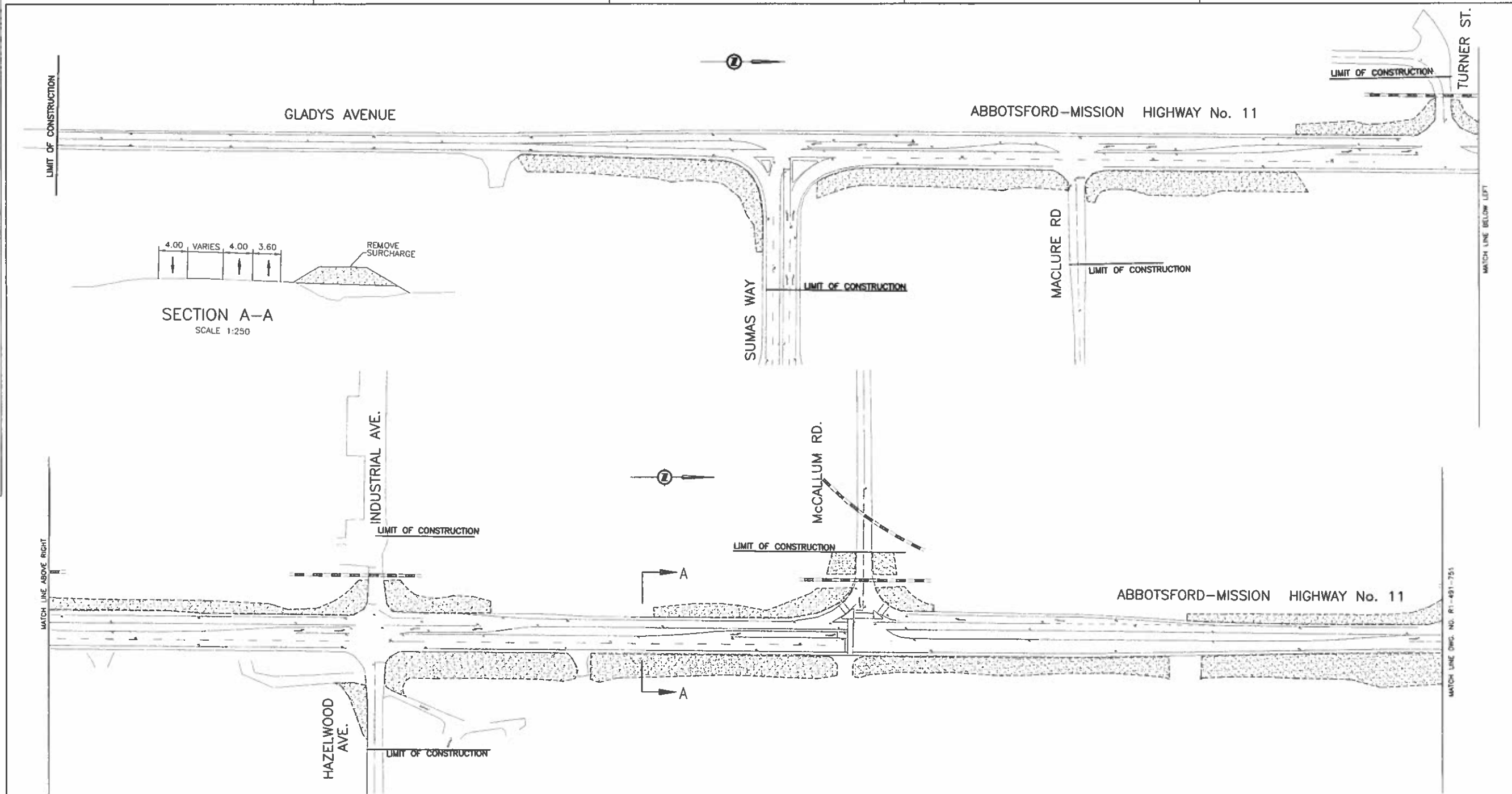
HWY No. 11/ BATEMAN RD. INTERSECTION

FILE: 1437W703



148 WEST GEORGE STREET, WINNIPEG, BC V6C 2T3 TEL: (604) 693-8381		MINISTRY OF TRANSPORTATION HIGHWAY DESIGN AND SURVEY ENGINEERING SOUTH COAST REGION	
SCALE 0 1:500 25		DESIGNED: EA DATE: FEB/08 CHECKED: MCR DATE: APR/08 DRAWN: SH DATE: FEB/08 REVIEWED: RW DATE: MAR/08	
SPOT ELEVATIONS MISSION-ABBOTSFORD HIGHWAY No. 11 SUMAS WAY TO CLAYBURN ROAD VALLEY RD. AND BATEMAN RD.			
Rev. Date Description Signature		SENIOR DESIGNER: <i>[Signature]</i> DATE: MAR. 10 2008	
FILE No. 11313		PROJECT No. 11313-0001	
REVISIONS		RES. 1 DRAWING No. R1-491-703	
CANCEL PRINTS BEARING PREVIOUS LETTER			

UPDATE: MAR 10, 2008



- LEGEND**
- TRAFFIC ACCOMMODATION
 - CONSTRUCTION (ROADWAY)
 - REMOVAL (SURCHARGE)

- TRAFFIC OPERATION**
- MAINTAIN EXISTING TRAFFIC OPERATIONS ON HIGHWAY 11 AND SUMAS WAY, MACLURE RD., TURNER ST., INDUSTRIAL/HAZELWOOD AVE. AND McCALLUM RD.
- CONSTRUCTION OPERATION**
- REMOVE SURCHARGE

NDLEA Consultants Ltd.
1405 WEST GEORGIA STREET, VANCOUVER, BC V6C 2T3 TEL: (604) 685-6381

DESIGNED: RF DATE FEB/05
 CHECKED: MCE DATE MAR/05
 DRAWN: SM DATE FEB/05
 REVIEWED: SW DATE MAR/05

Rev	Date	Description	Signature

REVISIONS

MINISTRY OF TRANSPORTATION
HIGHWAY DESIGN AND SURVEY ENGINEERING
SOUTH COAST REGION

SUGGESTED DETOURS AND STAGING
MISSION-ABBOTSFORD HIGHWAY No. 11
SUMAS WAY TO CLAYBURN ROAD
STAGE 1

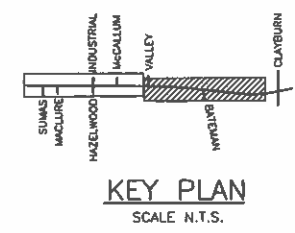
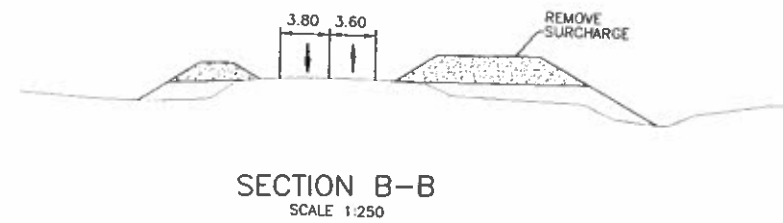
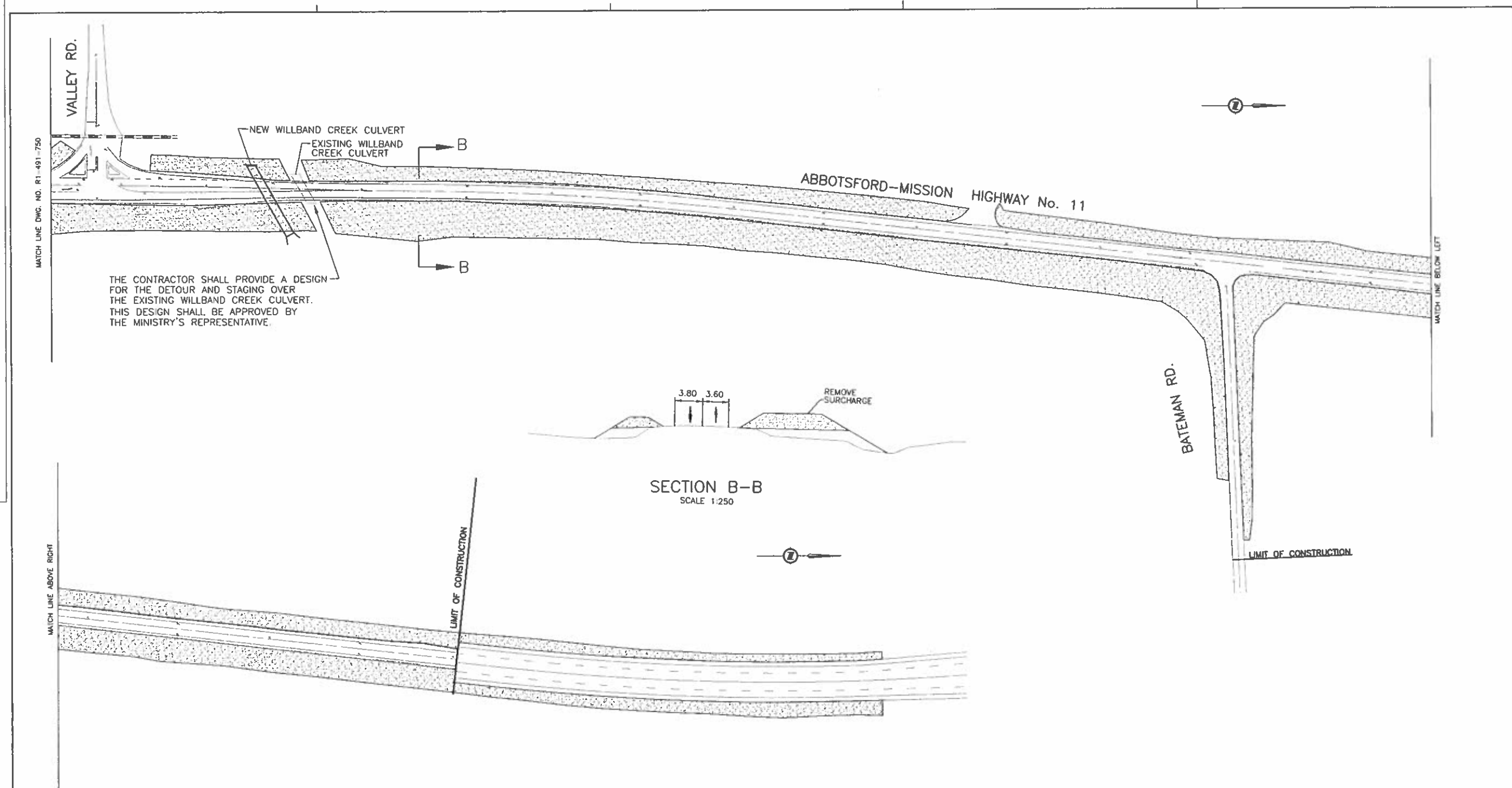
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SENIOR DESIGNER DATE MARCH 31, 2005

FILE No. 11313	PROJECT No. 11313-0001	REV. 1	DRAWING No. R1-491-750
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CANCEL PRINTS BEARING PREVIOUS LETTER

FILE: 81573M601

UPDATE: MAR 31, 2005



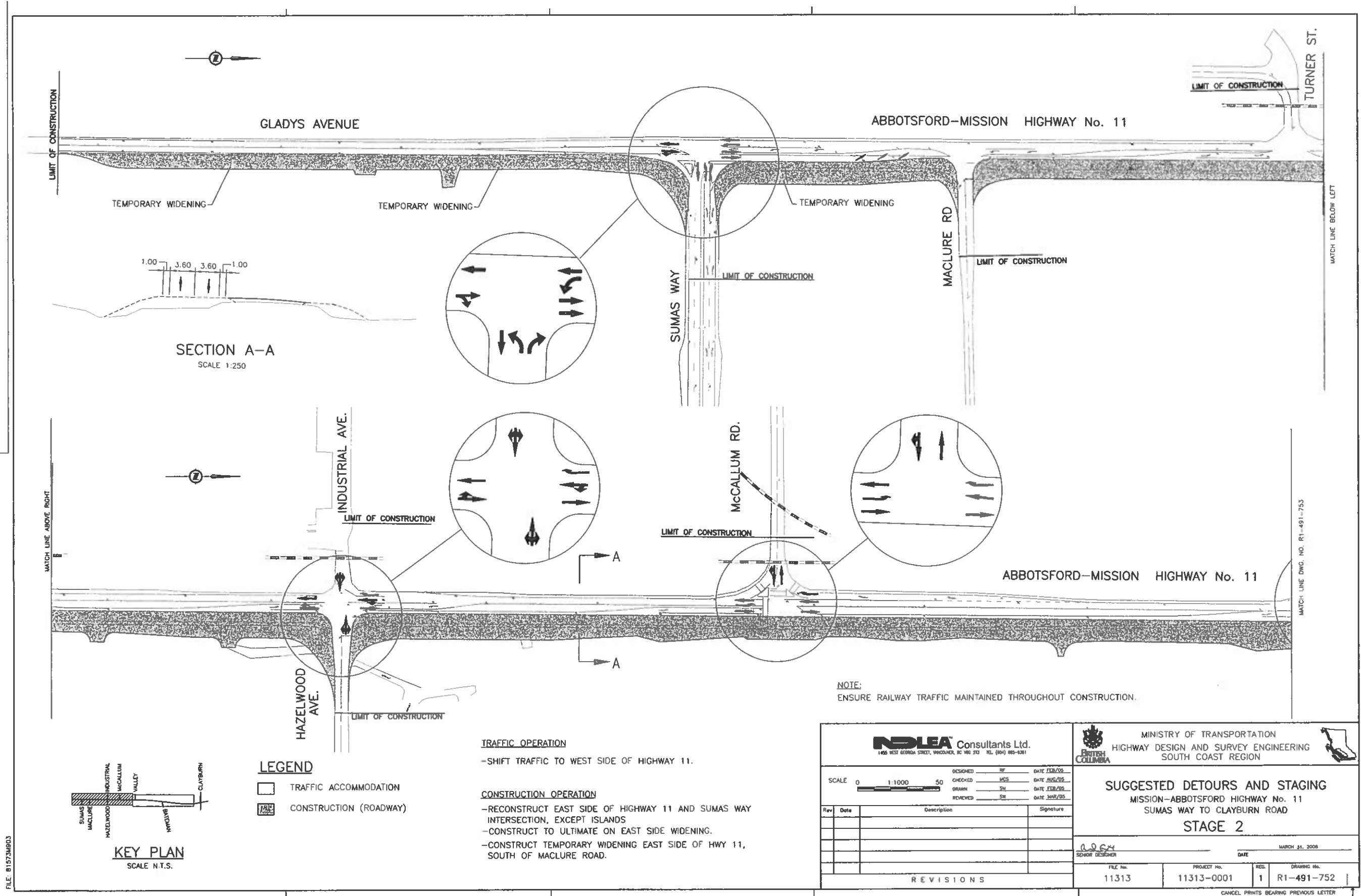
- LEGEND**
- TRAFFIC ACCOMMODATION
 - CONSTRUCTION (ROADWAY)
 - REMOVAL (SURCHARGE)

- TRAFFIC OPERATION**
- MAINTAIN EXISTING TRAFFIC OPERATIONS ON HIGHWAY 11, VALLEY RD. AND BATEMAN RD.
- CONSTRUCTION OPERATION**
- REMOVE SURCHARGE

<p>NDLEA Consultants Ltd. 1456 WEST GERRARD STREET, WINDSOR, ON. N9C 2Y3 TEL. (519) 885-1301</p>		<p>MINISTRY OF TRANSPORTATION HIGHWAY DESIGN AND SURVEY ENGINEERING SOUTH COAST REGION</p>	
<p>SCALE 0 1:1000 50</p>		<p>DESIGNED: RF DATE FEB/05 CHECKED: MCS DATE AUG/05 DRAWN: SM DATE FEB/05 REVIEWED: SW DATE MAR/05</p>	
<p>Rev Date Description Signature</p>		<p>SUGGESTED DETOURS AND STAGING MISSION-ABBOTSFORD HIGHWAY No. 11 SUMAS WAY TO CLAYBURN ROAD STAGE 1</p>	
<p>REVISIONS</p>		<p>DATE: MARCH 31, 2005 FILE No. 11313 PROJECT No. 11313-0001 REC. 1 DRAWING No. R1-491-751</p>	
<p>CANCEL PRINTS BEARING PREVIOUS LETTER</p>			

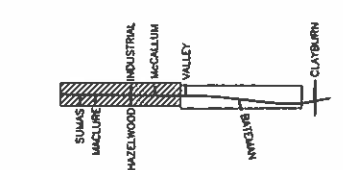
FILE: 81573MB02

UPDATE: MAR 31, 2005



1.00 3.60 3.60 1.00

SECTION A-A
SCALE 1:250



KEY PLAN
SCALE N.T.S.

- LEGEND**
- TRAFFIC ACCOMMODATION
 - CONSTRUCTION (ROADWAY)

TRAFFIC OPERATION
-SHIFT TRAFFIC TO WEST SIDE OF HIGHWAY 11.

CONSTRUCTION OPERATION
-RECONSTRUCT EAST SIDE OF HIGHWAY 11 AND SUMAS WAY INTERSECTION, EXCEPT ISLANDS
-CONSTRUCT TO ULTIMATE ON EAST SIDE WIDENING.
-CONSTRUCT TEMPORARY WIDENING EAST SIDE OF HWY 11, SOUTH OF MACLURE ROAD.

NOTE:
ENSURE RAILWAY TRAFFIC MAINTAINED THROUGHOUT CONSTRUCTION.

NDLEA Consultants Ltd.
1455 WEST GEORGIA STREET, VANCOUVER, BC V6C 2T3 TEL: (604) 885-8381

MINISTRY OF TRANSPORTATION
HIGHWAY DESIGN AND SURVEY ENGINEERING
SOUTH COAST REGION

SUGGESTED DETOURS AND STAGING
MISSION-ABBOTSFORD HIGHWAY No. 11
SUMAS WAY TO CLAYBURN ROAD
STAGE 2

Rev	Date	Description	Signature

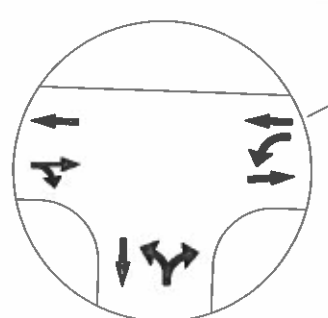
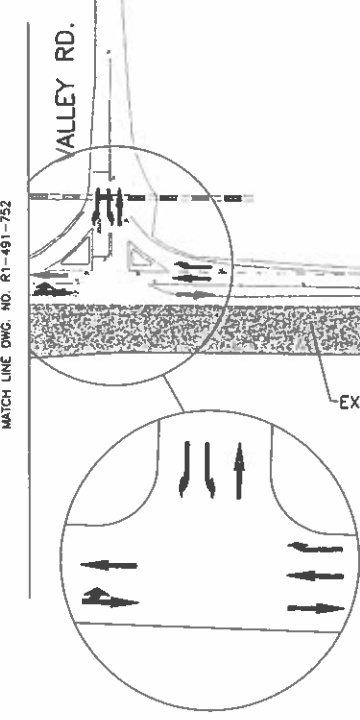
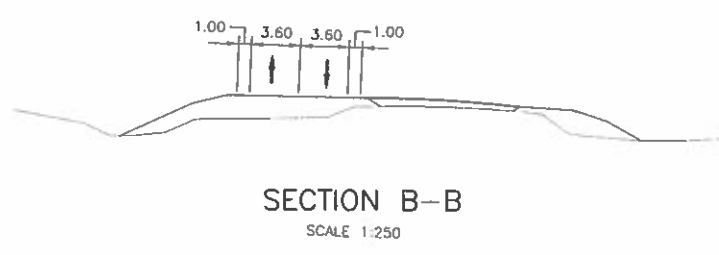
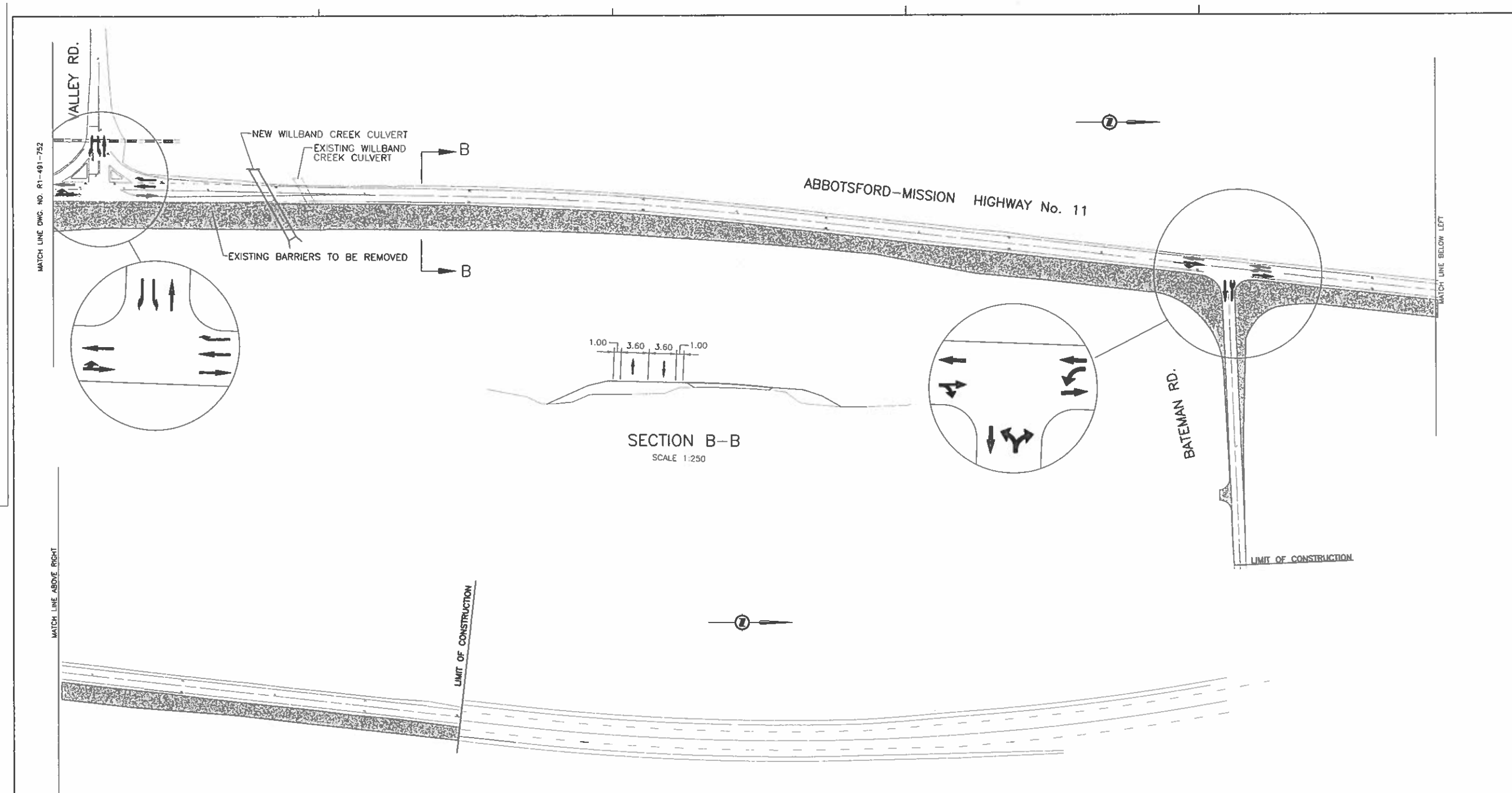
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DRAWN SH	DATE FEB/05		
REVIEWED SF	DATE MAR/05		
FILE No.	PROJECT No.	REV.	DRAWING No.
11313	11313-0001	1	R1-491-752

REVISIONS

CANCEL PRINTS BEARING PREVIOUS LETTER

FILE: B15734903

UPDATE: MAR 31, 2005



MATCH LINE ABOVE RIGHT

MATCH LINE BELOW LEFT

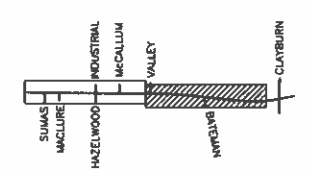
LIMIT OF CONSTRUCTION

LIMIT OF CONSTRUCTION

NOTE:
ENSURE RAILWAY TRAFFIC MAINTAINED THROUGHOUT CONSTRUCTION.

TRAFFIC OPERATION
-SHIFT TRAFFIC TO WEST SIDE OF HIGHWAY 11.

CONSTRUCTION OPERATION
-CONSTRUCT TO ULTIMATE ON EAST SIDE WIDENING.
-REMOVE BARRIERS ON EAST SIDE OF HWY 11 NEAR VALLEY RD.



KEY PLAN
SCALE N.T.S.

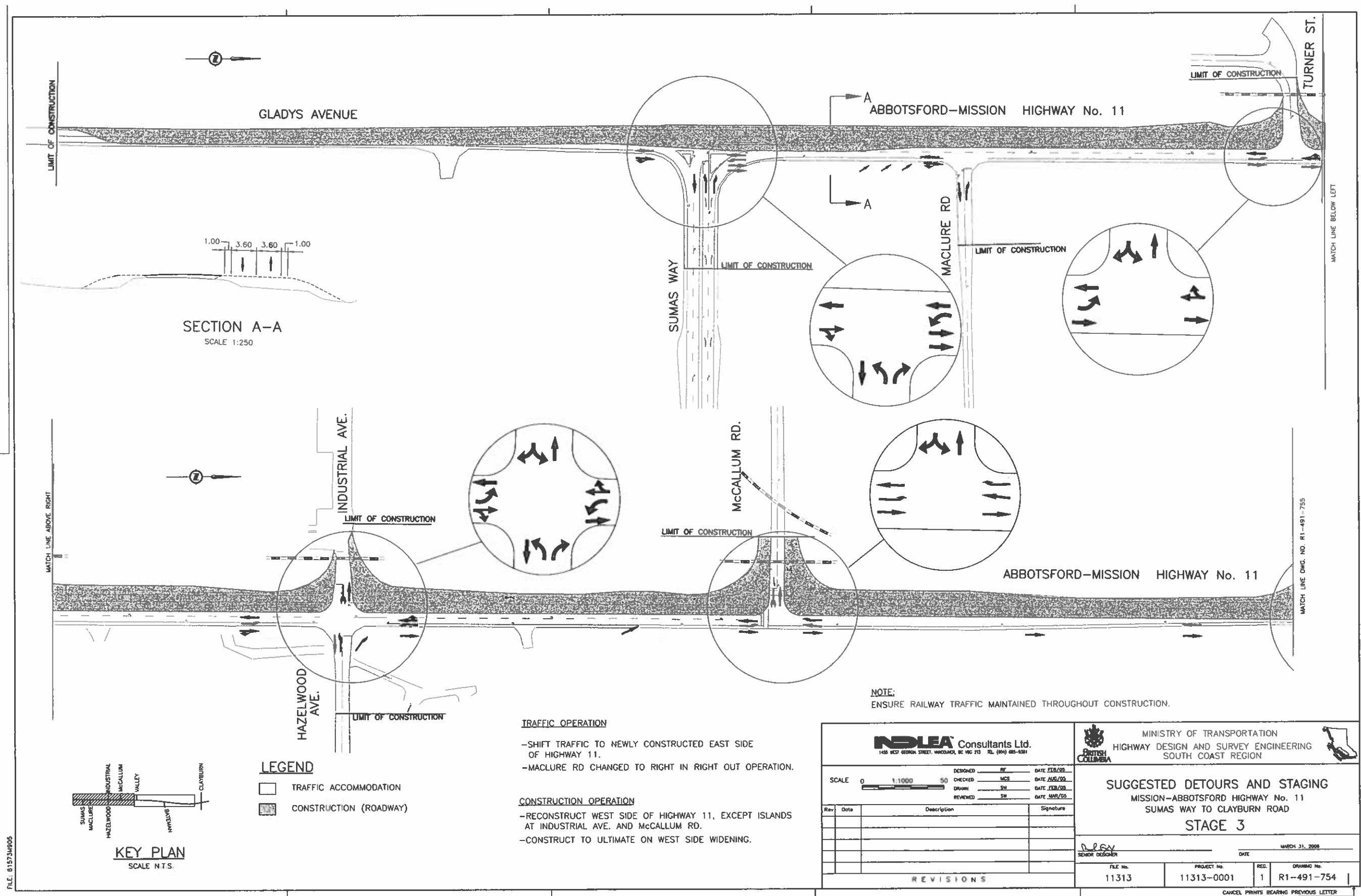
LEGEND

	TRAFFIC ACCOMMODATION
	CONSTRUCTION (ROADWAY)

 1456 WEST GEORGE STREET, VANCOUVER, BC V6Z 2Y3 TEL: (604) 895-4381		 MINISTRY OF TRANSPORTATION HIGHWAY DESIGN AND SURVEY ENGINEERING SOUTH COAST REGION	
SCALE 0 1:1000 50		DESIGNED BY DATE FEB/05 CHECKED MCS DATE AUG/05 DRAWN SM DATE FEB/05 REVIEWED SW DATE MAR/05	
Rev	Date	Description	Signature
REVISIONS		SENIOR DESIGNER DATE MARCH 31, 2005	
FILE No.	PROJECT No.	REV.	DRAWING No.
11313	11313-0001	1	R1-491-753
CANCEL PRINTS BEARING PREVIOUS LETTER			

UPDATE | MAR 31, 2005

FILE: B1573M004



SECTION A-A
SCALE 1:250

1.00 3.60 3.60 1.00

LIMIT OF CONSTRUCTION

LIMIT OF CONSTRUCTION

LIMIT OF CONSTRUCTION

LIMIT OF CONSTRUCTION

LIMIT OF CONSTRUCTION

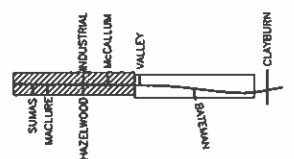
LIMIT OF CONSTRUCTION

LIMIT OF CONSTRUCTION

MATCH LINE ABOVE RIGHT

MATCH LINE DWG. NO. R1-491-755

MATCH LINE BELOW LEFT



KEY PLAN
SCALE N.T.S.

LEGEND

- TRAFFIC ACCOMMODATION
- CONSTRUCTION (ROADWAY)

TRAFFIC OPERATION

- SHIFT TRAFFIC TO NEWLY CONSTRUCTED EAST SIDE OF HIGHWAY 11.
- MACLURE RD CHANGED TO RIGHT IN RIGHT OUT OPERATION.

CONSTRUCTION OPERATION

- RECONSTRUCT WEST SIDE OF HIGHWAY 11, EXCEPT ISLANDS AT INDUSTRIAL AVE. AND McCALLUM RD.
- CONSTRUCT TO ULTIMATE ON WEST SIDE WIDENING.

NOTE:
ENSURE RAILWAY TRAFFIC MAINTAINED THROUGHOUT CONSTRUCTION.

INDLEA Consultants Ltd.
1415 WEST GEORGE STREET, VANCOUVER, BC V6C 2T3 TEL: (604) 685-4381

MINISTRY OF TRANSPORTATION
HIGHWAY DESIGN AND SURVEY ENGINEERING
SOUTH COAST REGION

SUGGESTED DETOURS AND STAGING
MISSION-ABBOTSFORD HIGHWAY No. 11
SUMAS WAY TO CLAYBURN ROAD
STAGE 3

Rev	Date	Description	Signature

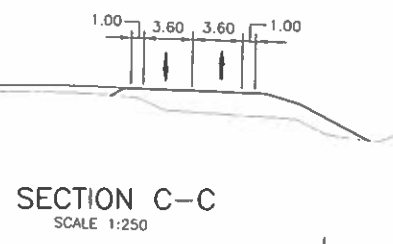
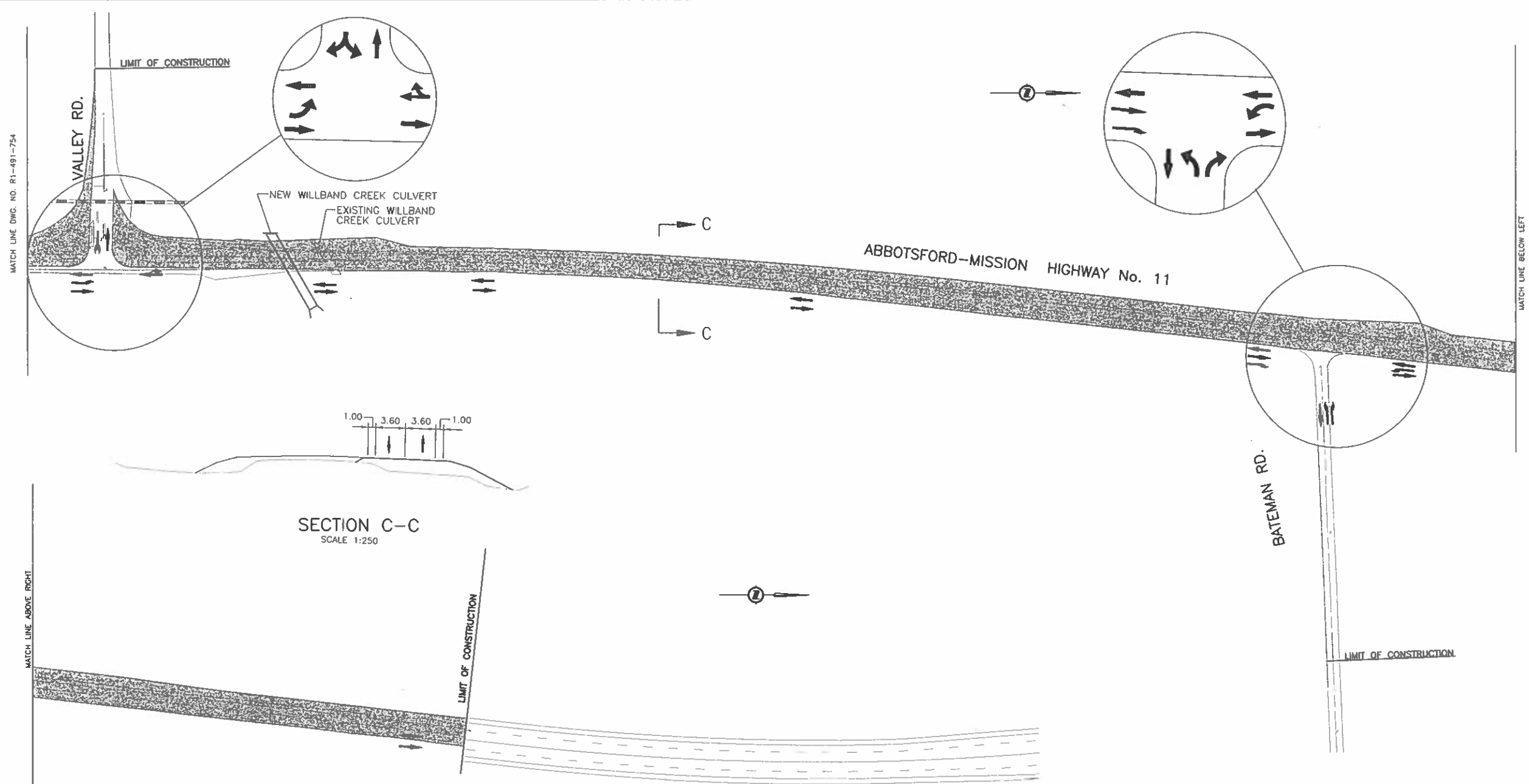
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CHECKED: MCS	DATE: AUG/05
DRAWN: SH	DATE: FEB/05
REVIEWED: SF	DATE: MAR/05
FILE No. 11313	PROJECT No. 11313-0001
RES. 1	DRAWING No. R1-491-754

REVISIONS

CANCEL PRINTS BEARING PREVIOUS LETTER

FILE: B1573M905

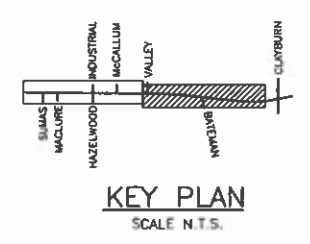
UPDATE: MAR 31, 2006



MATCH LINE ABOVE RIGHT

MATCH LINE BELOW LEFT

NOTE:
ENSURE RAILWAY TRAFFIC MAINTAINED THROUGHOUT CONSTRUCTION.



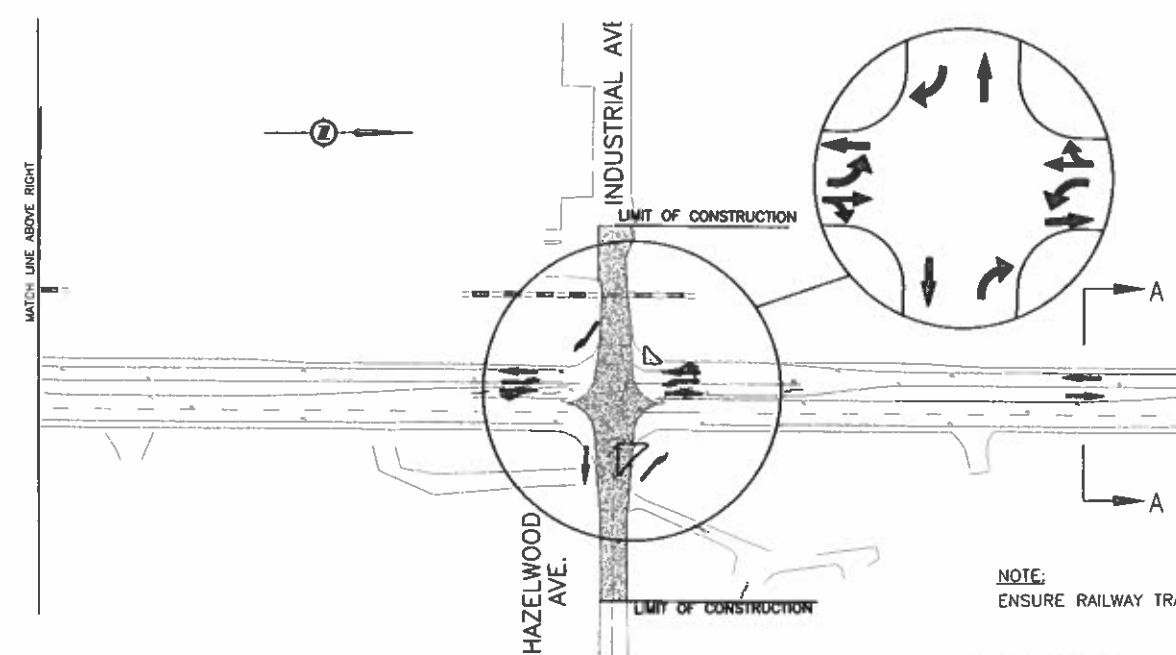
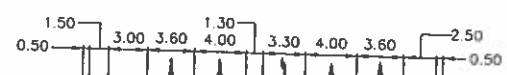
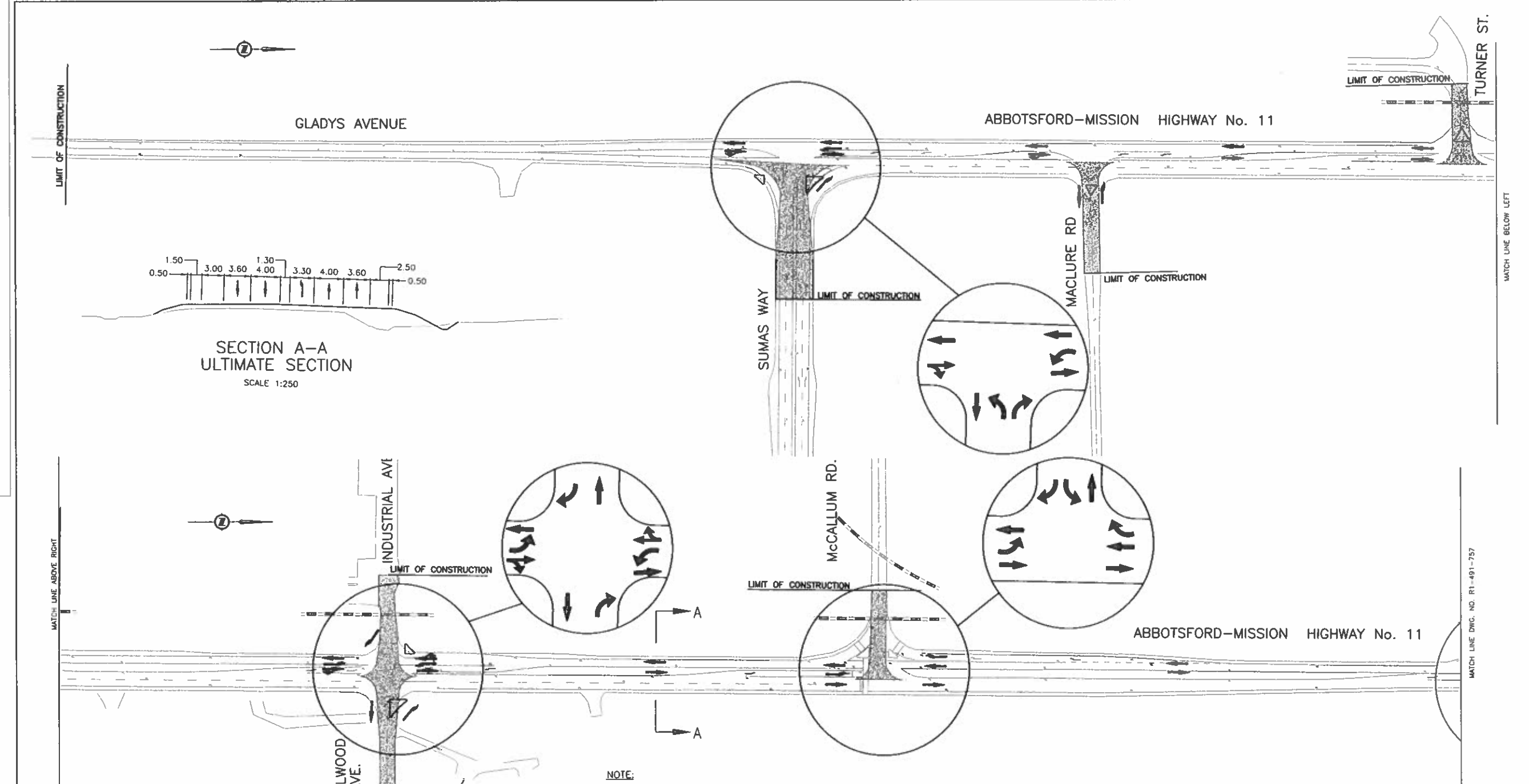
- LEGEND**
- TRAFFIC ACCOMMODATION
 - CONSTRUCTION (ROADWAY)
 - EXISTING HWY 11 WIDENING INTERFACE (0.4m GRADE DIFFERENCE)

- TRAFFIC OPERATION**
- SHIFT TRAFFIC TO NEWLY CONSTRUCTED EAST SIDE OF HIGHWAY 11.
- CONSTRUCTION OPERATION**
- RECONSTRUCT WEST SIDE OF HIGHWAY 11.
 - CONSTRUCT TO ULTIMATE ON WEST SIDE WIDENING.

1455 WEST BORDEN STREET, VIKTORIA, BC V8S 2T3 TEL: (250) 885-1311		MINISTRY OF TRANSPORTATION HIGHWAY DESIGN AND SURVEY ENGINEERING SOUTH COAST REGION																									
SCALE 0 1:1000 50		SUGGESTED DETOURS AND STAGING MISSION-ABBOTSFORD HIGHWAY No. 11 SUMAS WAY TO CLAYBURN ROAD STAGE 3																									
DESIGNED BY DATE FEB/05 CHECKED MGS DATE AUG/05 DRAWN SM DATE FEB/05 REVIEWED SW DATE MAR/05		DATE: MARCH 31, 2008 SENIOR DESIGNER																									
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Rev</th> <th>Date</th> <th>Description</th> <th>Signature</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> </tbody> </table>		Rev	Date	Description	Signature													<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 25%;">FILE No.</td> <td style="width: 25%;">PROJECT No.</td> <td style="width: 25%;">REV.</td> <td style="width: 25%;">DRAWING No.</td> </tr> <tr> <td>11313</td> <td>11313-0001</td> <td>1</td> <td>R1-491-755</td> </tr> </table>		FILE No.	PROJECT No.	REV.	DRAWING No.	11313	11313-0001	1	R1-491-755
Rev	Date	Description	Signature																								
FILE No.	PROJECT No.	REV.	DRAWING No.																								
11313	11313-0001	1	R1-491-755																								
REVISIONS		CANCEL PRINTS BEARING PREVIOUS LETTER																									

FILE: B1573M005

UPDATE: MAR 31, 2008



LEGEND

□ TRAFFIC ACCOMMODATION

▨ CONSTRUCTION (ROADWAY)

NOTE:
ENSURE RAILWAY TRAFFIC MAINTAINED THROUGHOUT CONSTRUCTION.

TRAFFIC OPERATION

- SHIFT TRAFFIC AS REQUIRED.
- TURNER ST. CHANGED TO RIGHT IN RIGHT OUT OPERATION ONCE DEDICATED LEFT TURN LANE RE-ESTABLISHED AT McCALLUM RD.

CONSTRUCTION OPERATION

- RECONSTRUCT SUMAS WAY, MACLURE RD, TURNER ST, HAZELWOOD AVE, INDUSTRIAL AVE AND McCALLUM RD.
- CONSTRUCT ISLANDS AT INDUSTRIAL AVE. AND McCALLUM RD. ONCE TRAFFIC MOVED TO ULTIMATE LOCATION.

		DESIGNED	BY	DATE
		CHECKED	MES	DATE
SCALE 0 1:1000 50		DRAWN	SM	DATE
		REVIEWED	ST	DATE
Rev	Date	Description	Signature	
REVISIONS				

MINISTRY OF TRANSPORTATION
 HIGHWAY DESIGN AND SURVEY ENGINEERING
 SOUTH COAST REGION

SUGGESTED DETOURS AND STAGING
 MISSION-ABBOTSFORD HIGHWAY No. 11
 SUMAS WAY TO CLAYBURN ROAD
STAGE 4

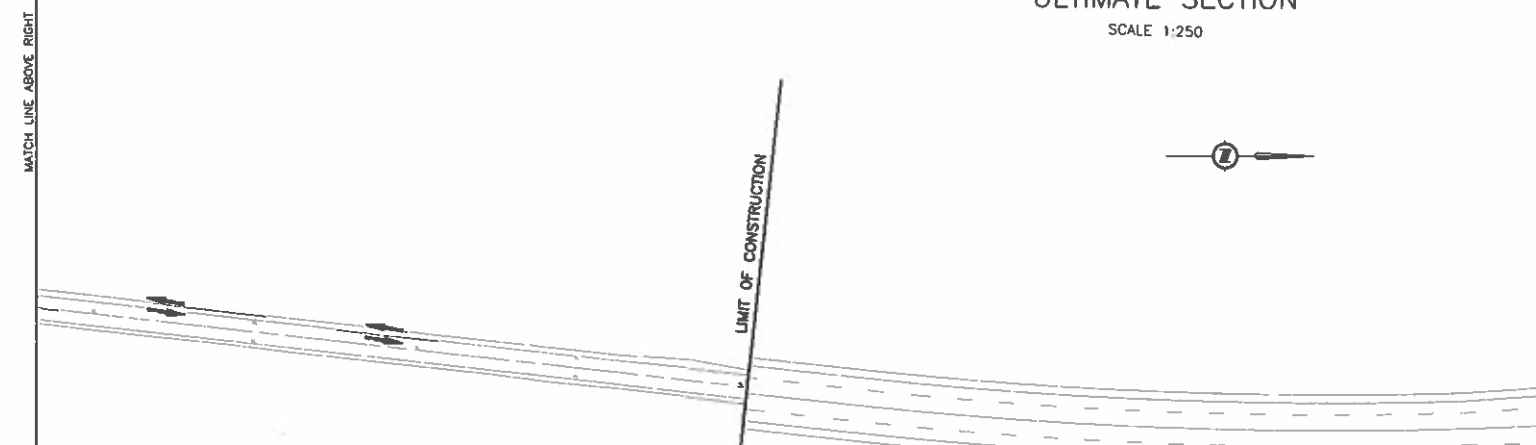
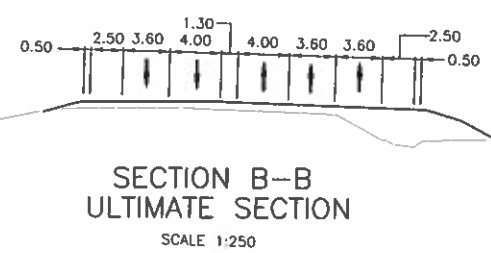
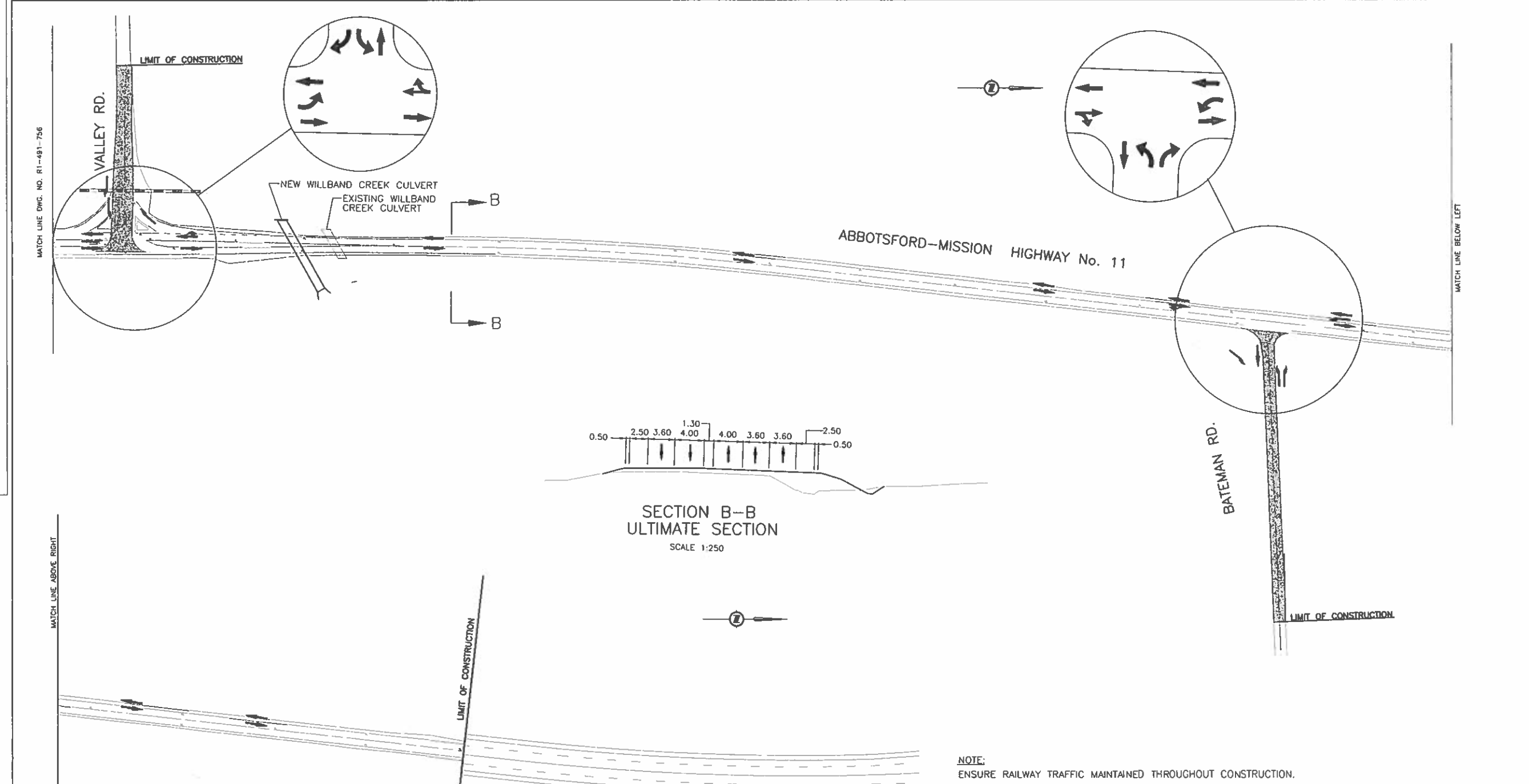
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FILE No.	PROJECT No.	REV.	DRAWING No.
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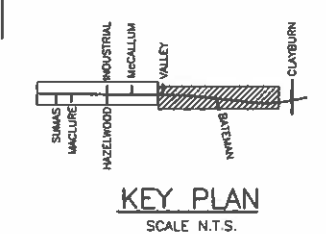
CANCEL PRINTS BEARING PREVIOUS LETTER

FILE: 01573M807

UPDATE: MAR 31, 2006



NOTE:
ENSURE RAILWAY TRAFFIC MAINTAINED THROUGHOUT CONSTRUCTION.



LEGEND

- TRAFFIC ACCOMMODATION
- ▨ CONSTRUCTION (ROADWAY)

TRAFFIC OPERATION
-SHIFT TRAFFIC AS REQUIRED.

CONSTRUCTION OPERATION
-RECONSTRUCT VALLEY RD AND BATEMAN RD.

<p>NDIA Consultants Ltd. 1455 WEST GEORGE STREET, VANCOUVER, BC V6C 2T3 TEL: (604) 680-8381</p>		<p>MINISTRY OF TRANSPORTATION HIGHWAY DESIGN AND SURVEY ENGINEERING SOUTH COAST REGION</p>	
<p>SCALE 0 1:1000 50</p>		<p>DESIGNED: [Signature] DATE FEB/06 CHECKED: MCS DATE AUG/06 DRAWN: SM DATE FEB/06 REVIEWED: SP DATE MAR/06</p>	
<p>SUGGESTED DETOURS AND STAGING MISSION-ABBOTSFORD HIGHWAY No. 11 SUMAS WAY TO CLAYBURN ROAD STAGE 4</p>		<p>DATE: MARCH 31, 2006</p>	
<p>REVISIONS</p>		<p>FILE No. 11313 PROJECT No. 11313-0001 REV. 1 DRAWING No. R1-491-757</p>	

CANCEL PRINTS BEARING PREVIOUS LETTER

FILE: 01573MR08

UPDATE: MAR 31, 2006