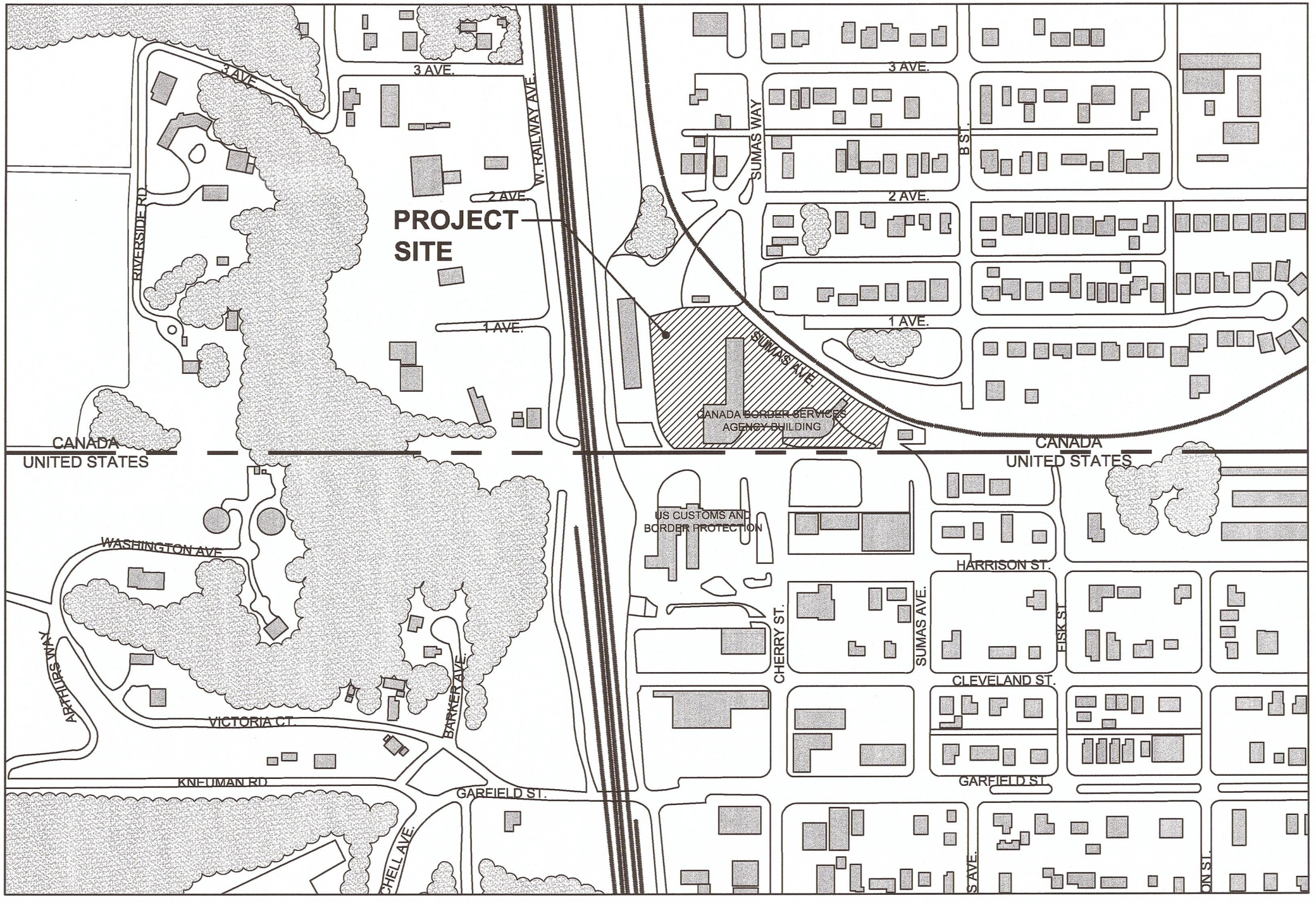


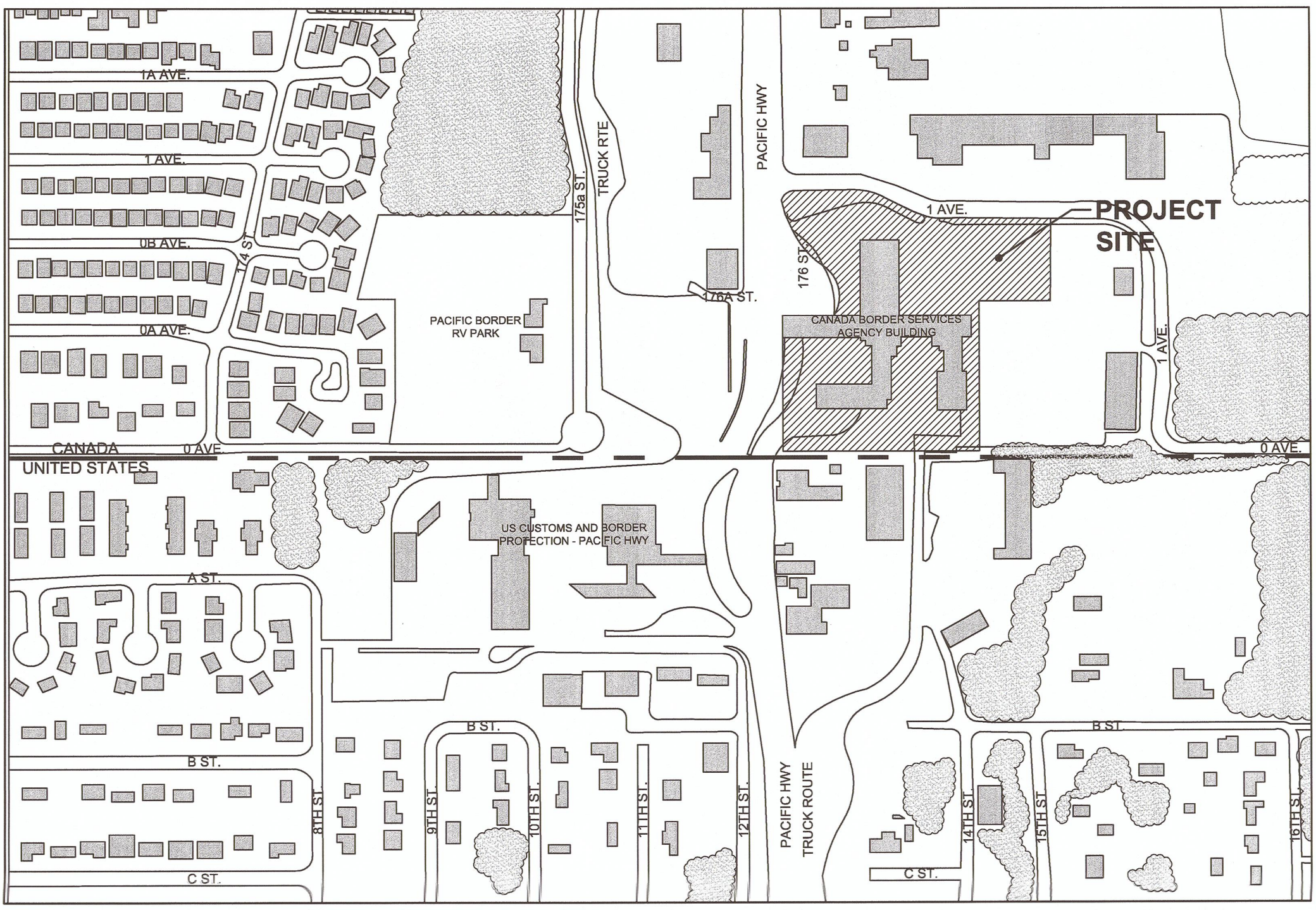
CANADA BORDER SERVICES AGENCY

PACIFIC HIGHWAY PORT OF ENTRY AND 28 176TH STREET, SURREY, BRITISH COLUMBIA

ABBOTSFORD-HUNTINGDON PORT OF ENTRY REPAVING 2 SUMAS WAY, HUNTINGDON, BRITISH COLUMBIA



1 LOCATION PLAN
ABBOTSFORD-HUNTINGDON PORT OF ENTRY
 A-00 N.T.S. PROJECT NORTH



2 LOCATION PLAN
PACIFIC HIGHWAY PORT OF ENTRY
 A-00 N.T.S. PROJECT NORTH

CONSULTANT LIST

OWNER	CANADA BORDER SERVICES AGENCY
PROJECT MANAGER	PUBLIC WORKS AND GOVERNMENT SERVICES CANADA
ARCHITECT	CHERNOFF THOMPSON ARCHITECTS
CIVIL ENGINEER	BINNIE CIVIL ENGINEERING CONSULTANTS

DRAWING LIST

ARCHITECTURAL	
A-00	PACIFIC HIGHWAY AND ABBOTSFORD-HUNTINGDON PORT OF ENTRY REPAVING COVER SHEET, LOCATION PLANS AND GENERAL NOTES
A-01	ABBOTSFORD-HUNTINGDON PORT OF ENTRY SITE PLAN
A-02	ABBOTSFORD-HUNTINGDON PORT OF ENTRY SITE PHASING DIAGRAM
A-03	PACIFIC HIGHWAY PORT OF ENTRY SITE PLAN
A-04	PACIFIC HIGHWAY PORT OF ENTRY SITE PHASING DIAGRAM
CIVIL	
C001	ABBOTSFORD-HUNTINGDON PORT OF ENTRY SITE PLAN
C002	PACIFIC HIGHWAY PORT OF ENTRY SITE PLAN
C003	PACIFIC HIGHWAY AND ABBOTSFORD-HUNTINGDON PORT OF ENTRY REPAVING NOTES & DETAILS
C004	PACIFIC HIGHWAY AND ABBOTSFORD-HUNTINGDON PORT OF ENTRY REPAVING CONCRETE NOTES & DETAILS
FOR REFERENCE	
SK#5523.00	TOPOGRAPHIC SURVEY PLAN - HUNTINGDON PORT OF ENTRY REPAVING
SK#5524.00	TOPOGRAPHIC SURVEY PLAN - PACIFIC CROSSING PARKING AND TRAFFIC LANES REPAVING

ARCHITECTURAL SYMBOLS

	DRAWING TITLE	DRAWING IDENTIFICATION
	GRID LINES	
	ELEVATION/SECT. MARKERS	
	SECTION MARKERS	
	BUILDING SECTION	
	DETAIL REFERENCE	
	NORTH ARROW	
	PLAN ELEVATION MARKERS	
	SCHEDULE REFERENCE	
	CONSTRUCTION NOTE REFERENCE	

LIST OF ABBREVIATIONS

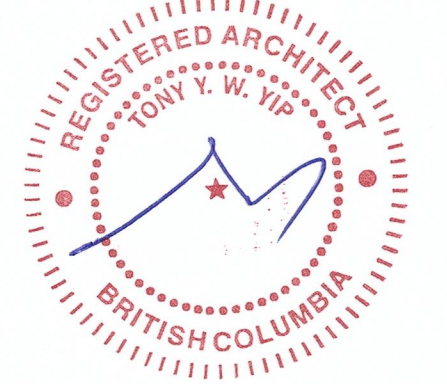
AC	ARCHITECTURAL CONCRETE
AW	ALUMINUM WINDOW
A.F.F.	ABOVE FIXED FLOOR
AHU	AIR HANDLING UNIT
ASF	ALUMINUM STOREFRONT WINDOW
BO or B.O.	BOTTOM OF
CG	CORNER GUARD
CMJ	CONTROL MOVEMENT JOINT
CLF	CHAIN LINK FENCE
CR	CONCRETE REVEAL, TYPICAL
CT	CERAMIC WALL TILE
CTS	CERAMIC TILE BASE
DC	DUST CONTROL
DA	DIAMETER
EP	ELECTRICAL PANEL
ERC	EPOXY RESIN COATING
EXIST	EXISTING
FD	FLOOR DRAIN
FIG or F.O.	FACE OF
F.O.S.	FACE OF STUD
FRP	FIBREGLASS REINFORCED PANEL
GWB	GYPSUM WALL BOARD, PAINTED
HB	HOSE BIB
MGF	METAL GRATING FENCE
NIC	NOT IN CONTRACT
NTS	NOT TO SCALE
O.C.	ON CENTER
OS	OVERFLOW SCUPPER
P.LAM	PLASTIC LAMINATE
P.T.	PRESSURE TREATED
PLYWD.	PLYWOOD
R.A.G.	RETURN AIR GRILL
RB	RUBBER BASE
RD	ROOF DRAIN
REJ	REJEK
RWL	RAIN WATER LEADER
SC	STEEL COLUMN
SML	SIMILAR
SS	STAINLESS STEEL
SVB	SEAMLESS VINYL BASE
TD or T.O.	TOP OF
TYR	TYPICAL
U.N.O.	UNLESS NOTED OTHERWISE
US	UNDER SIDE
WCP	WOOD CEILING PANEL
WD	WOOD
W.P.	WATER PROOFING

GENERAL NOTES:

- DEMOLITION**
- DEMOLITION DRAWING ONLY SHOWS THE GENERAL SCOPE OF DEMOLITION. CONTRACTOR WILL BE RESPONSIBLE FOR COORDINATING AND CARRYING OUT ALL NECESSARY DEMOLITION NOT SHOWN IN ORDER TO CLEAR UP THE PROJECT SITE READY FOR NEW SITE IMPROVEMENT WORKS.
 - PROTECT EXISTING TREES TO BE RETAINED AS NEEDED DURING DEMOLITION UNTIL COMPLETION OF NEW WORK.
 - ALL DEMOLISHED MATERIAL AND DEBRIS IS TO BE REMOVED PROMPTLY FROM SITE AND DISPOSED OF IN A LEGAL MANNER.
 - SELLING OF ANY MATERIAL ON SITE IS NOT PERMITTED.
 - PATCH AND MAKE GOOD DAMAGED AREA AND FIXTURES WHICH ARE TO BE RETAINED AS SHOWN IN DRAWING.
 - CONTRACTOR TO REMOVE ALL EXISTING LANDSCAPE AND PAVING ON SITE BUT NOT LIMITED TO THOSE SHOWN ON DRAWINGS TO PREPARE THE SITE FOR NEW SITE WORK.
 - COMPLY WITH ALL BYLAWS AND ACQUIRE ALL NECESSARY PERMITS.
 - COMPLY WITH ALL WORKER'S COMPENSATION BOARD OF BC. ACCIDENT PREVENTION REGULATIONS.
 - HAND OVER AND STORE THE SPECIFIED SALVAGED MATERIAL (IF ANY) AS DIRECTED BY DEPARTMENTAL REPRESENTATIVE.

CONSTRUCTION

- ALL NEW CONCRETE PAVING TO BE LIGHT BROOM FINISH U.N.O.
- COMPLY WITH ALL BYLAWS AND ACQUIRE ALL NECESSARY CONSTRUCTION PERMITS.
- ALL TEMPORARILY REMOVED ITEMS REQUIRED FOR CARRYING OUT DEMOLITION AND CONSTRUCTION ARE TO BE REINSTALLED AFTER CONSTRUCTION.



5		
4		
3		
2	ISSUED FOR TENDER	2016-11-02
1	90% CD REVIEW	2016-03-04
0	50% CD REVIEW	2016-02-03
Revision/Reviser	Description/Description	Date/Date

CANADA BORDER SERVICES AGENCY

Project title/Titre du projet
28 176TH STREET, SURREY, B.C.
2 SUMAS WAY, HUNTINGDON, B.C., V2S 8B7

PACIFIC HIGHWAY PORT OF ENTRY AND ABBOTSFORD-HUNTINGDON PORT OF ENTRY REPAVING

Consultant Signature Only

Designed by/Concept par
T.Y.

Drawn by/Dessiné par
b.w.

PWOSC Project Manager/Administrateur de Projets TPSC
JULIAN HO

Regional Manager, Architectural and Engineering Services
 Gestionnaire régional, Services d'architecture et de génie, TPSC
PREETIPAL PAUL

Drawing title/Titre du dessin

PACIFIC HIGHWAY AND ABBOTSFORD-HUNTINGDON PORT OF ENTRY REPAVING COVER SHEET, LOCATION PLANS AND GENERAL NOTES

Project No./No. du projet R.078171.001	Sheet/Feuille A-00 OF 5	Revision no./Lo. Révision no. 2
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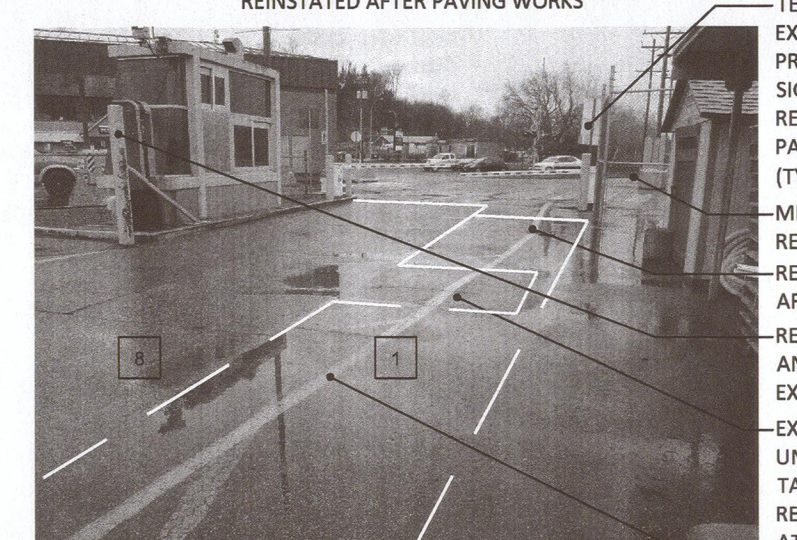
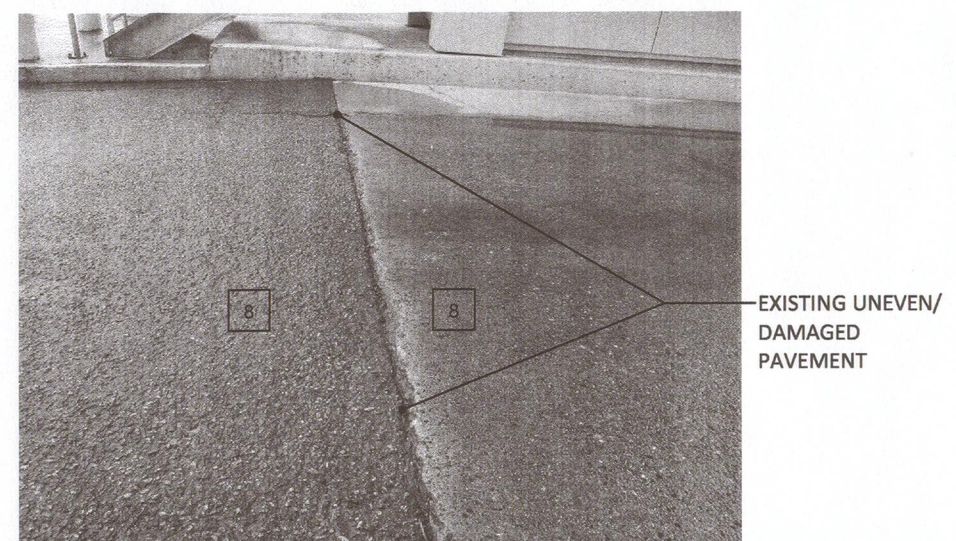
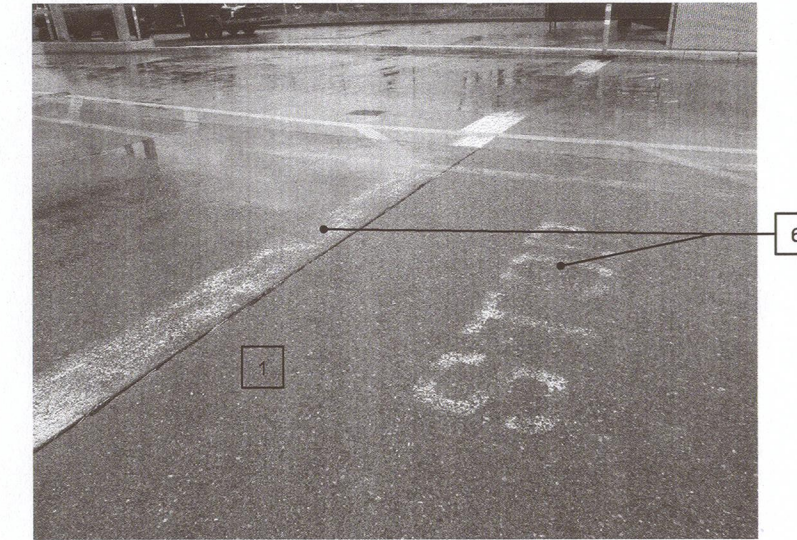
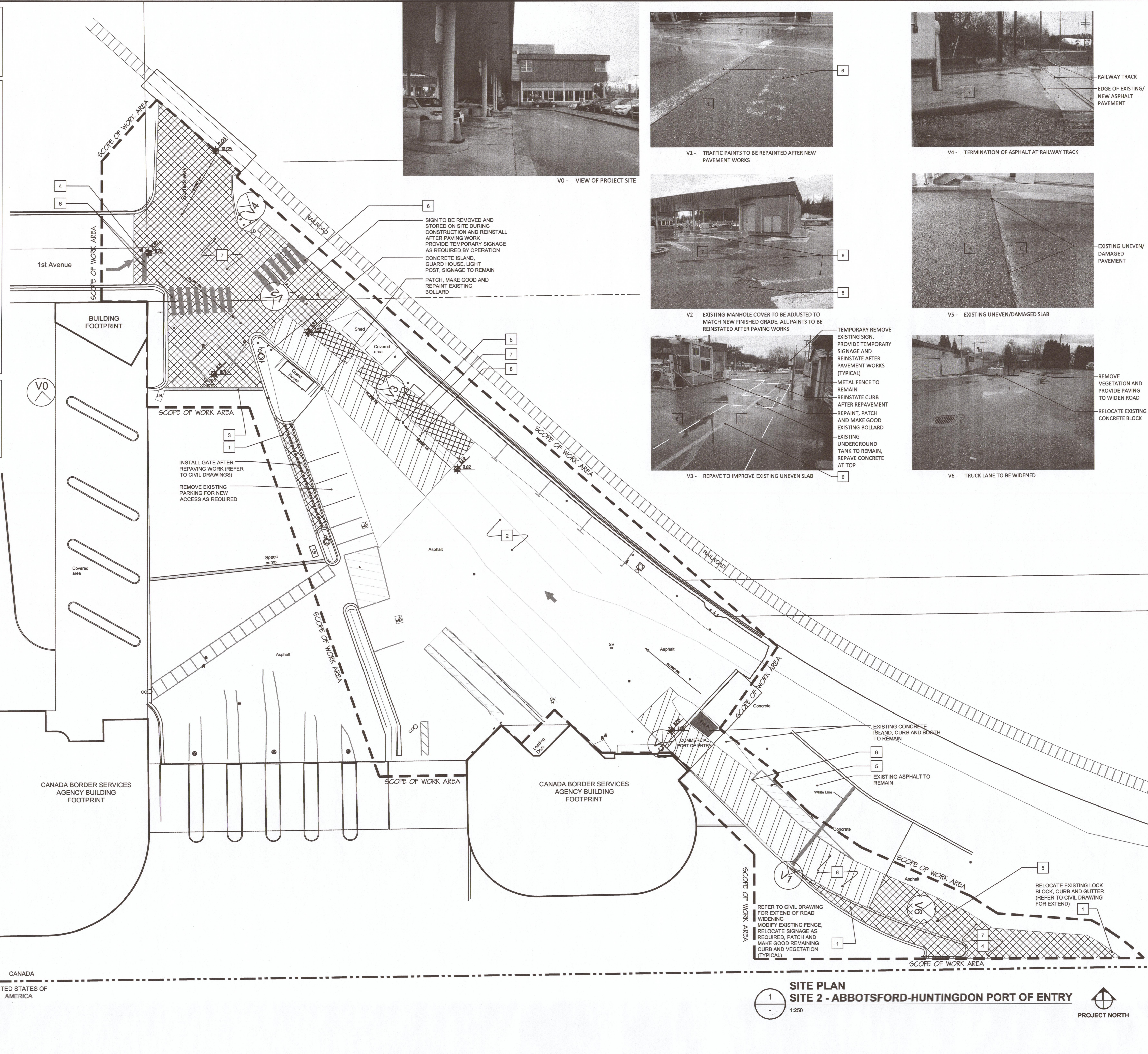


NOTES:

- THIS DRAWING SHOWS ONLY THE INTENT OF WORKS AND APPROXIMATE AREA, EXACT EXTENT TO BE VERIFIED ON SITE
- REFER TO CIVIL ENGINEER DRAWINGS FOR SCOPE AND DETAILS

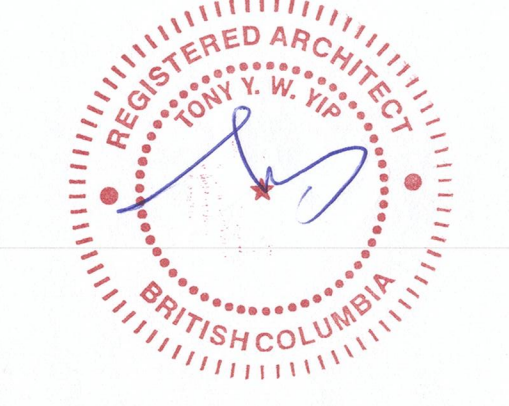
- LEGEND OF WORKS**
- MODIFY TO BECOME PART OF ROAD; REMOVE EXISTING CONCRETE CURB, GRAVEL AND VEGETATION; PAVE WITH ASPHALT TO MATCH SURROUNDING GRADE (REFER TO CIVIL DRAWINGS FOR PAVEMENT STRUCTURE)
 - REPAIR DAMAGED CONCRETE PAVING AND REPAINT AFFECTED TRAFFIC LINES (REFER TO CIVIL DRAWINGS)
 - EXISTING SPEED BUMP TO BE REMAINED, PATCH AND MAKE GOOD AND REPAINT (REFER TO CIVIL DRAWINGS)
 - EXISTING VALVES, CATCH BASIN AND OTHER SITE SERVICE TO REMAIN, ADJUST CAP ELEVATIONS TO MATCH WITH NEW PAVING ELEVATIONS TO REMAIN ACCESSIBLE (REFER TO CIVIL DRAWINGS)
 - EXISTING MANHOLES AND CATCH BASINS TO BE RETAINED, ADJUST CAPS TO MATCH WITH NEW PAVING ELEVATION AND REMAIN ACCESSIBLE
 - REPAINT ALL CROSS WALKS, PARKING AND OTHER TRAFFIC LINES AFTER NEW PAVING IN PLACE
 - REPLACE ASPHALT PAVING TO MATCH EXISTING PAVING (REFER TO CIVIL DRAWINGS FOR PAVEMENT STRUCTURE)
 - REMOVE AND REPLACE EXISTING CONCRETE SLAB

- LEGEND**
- MILLING AND OVERLAY EXISTING ASPHALT WITH NEW ASPHALT OVERLAY AREA
 - NEW ASPHALT PAVING AREA
 - NEW CONCRETE PAVING AREA



Public Works and Government Services Canada / Travaux publics et Services gouvernementaux Canada
REAL PROPERTY SERVICES
 Pacific Region
SERVICES IMMOBILIERS
 Région de Pacifique

CHERNOFF THOMPSON ARCHITECTS



Revision/Revisión	Description/Description	Date/Date
5		
4		
3		
2	ISSUED FOR TENDER	2016-11-02
1	90% CD REVIEW	2016-03-04
0	50% CD REVIEW	2016-02-03

Client/Client
CANADA BORDER SERVICES AGENCY

Project Title/Titre du projet
**28 176TH STREET, SURREY, B.C.
 2 SUMAS WAY, HUNTINGDON, B.C., V2S 8B7**

PACIFIC HIGHWAY PORT OF ENTRY AND ABBOTSFORD-HUNTINGDON PORT OF ENTRY REPAVING

Consultant Signature Only

Designed by/Concept par
T.Y.

Drawn by/Dessiné par
b.w.

PWOSC Project Manager/Administrateur de Projets IPSC
JULIAN HO

Regional Manager, Architectural and Engineering Services
 Gestionnaire Régional, Services d'architectural et de génie, IPSC
PREETIPAL PAUL

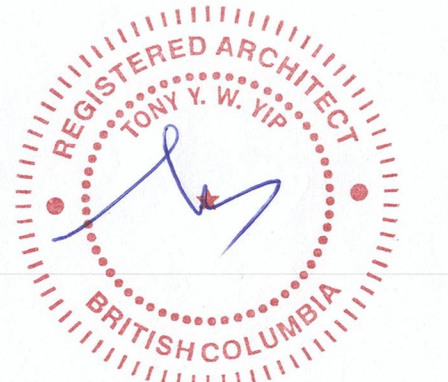
Drawing Title/Titre du dessin
ABBOTSFORD-HUNTINGDON PORT OF ENTRY SITE PLAN

Project No./No. du projet	Sheet/Feuille	Revision no./No. de Révision
R.078171.001	A-01 OF 5	2

LEGEND

PHASE 1	PHASE 1 NIGHT TIME WORK
PHASE 2	PHASE 2 NIGHT TIME WORK
PHASE 3	PHASE 3 NIGHT TIME WORK
PHASE 4	PHASE 4 NIGHT TIME WORK

- NOTE:**
1. PERMISSION SHOULD BE OBTAINED FROM CITY OF ABBOTSFORD FOR CONSTRUCTION OUTSIDE PERMITTED HOURS AND COMPLY WITH CITY OF ABBOTSFORD GOOD NEIGHBOUR BY-LAW LATEST EDITION REGARDING TO CONSTRUCTION NOISE
 2. NIGHT WORK HOURS FROM 10:00 P.M. OR MID-NIGHT TO 06:00 A.M. THE FOLLOWING DAY; CONTRACTOR TO COORDINATE AND CONFIRM PERMITTED CONSTRUCTION TIME WITH DEPARTMENTAL REPRESENTATIVES
 3. CONTRACTOR TO COORDINATE WITH DEPARTMENTAL REPRESENTATIVES ON ALL PHASES OF WORK AND SUBMIT DETAIL PHASING SCHEDULE FOR DEPARTMENTAL REPRESENTATIVE'S REVIEW WITHIN 1 WEEK AFTER AWARD OF CONTRACT. A MINIMUM OF 48 HOURS OF NOTICE IS REQUIRED PRIOR TO CLOSING OFF FOR CONSTRUCTION
 4. CONTRACTOR TO SCHEDULE SEQUENCE OF WORK TO REDUCE DOWN TIME OF WORK TO A MINIMUM
 5. ARROWS SHOWN ON THIS DRAWING INDICATES EXIT PATH AND DIRECTION ONLY
 6. THIS DRAWING TO BE READ IN CONJUNCTION WITH ARCHITECTURAL AND CIVIL DRAWINGS FOR SCOPE OF WORKS
 7. PHASING BOUNDARIES SHOWN ON THIS DRAWING FOR PHASING INTENT ONLY, ACTUAL BOUNDARIES TO BE FIELD DETERMINED



5		
4		
3		
2	ISSUED FOR TENDER	2016-11-22
1	ISSUED WITH RUS COMMENTS	2016-07-26
0	ISSUED FOR REVIEW	2016-06-22
Revision/	Description/Description	Date/Date
Existing/		

Client/client
CANADA BORDER SERVICES AGENCY

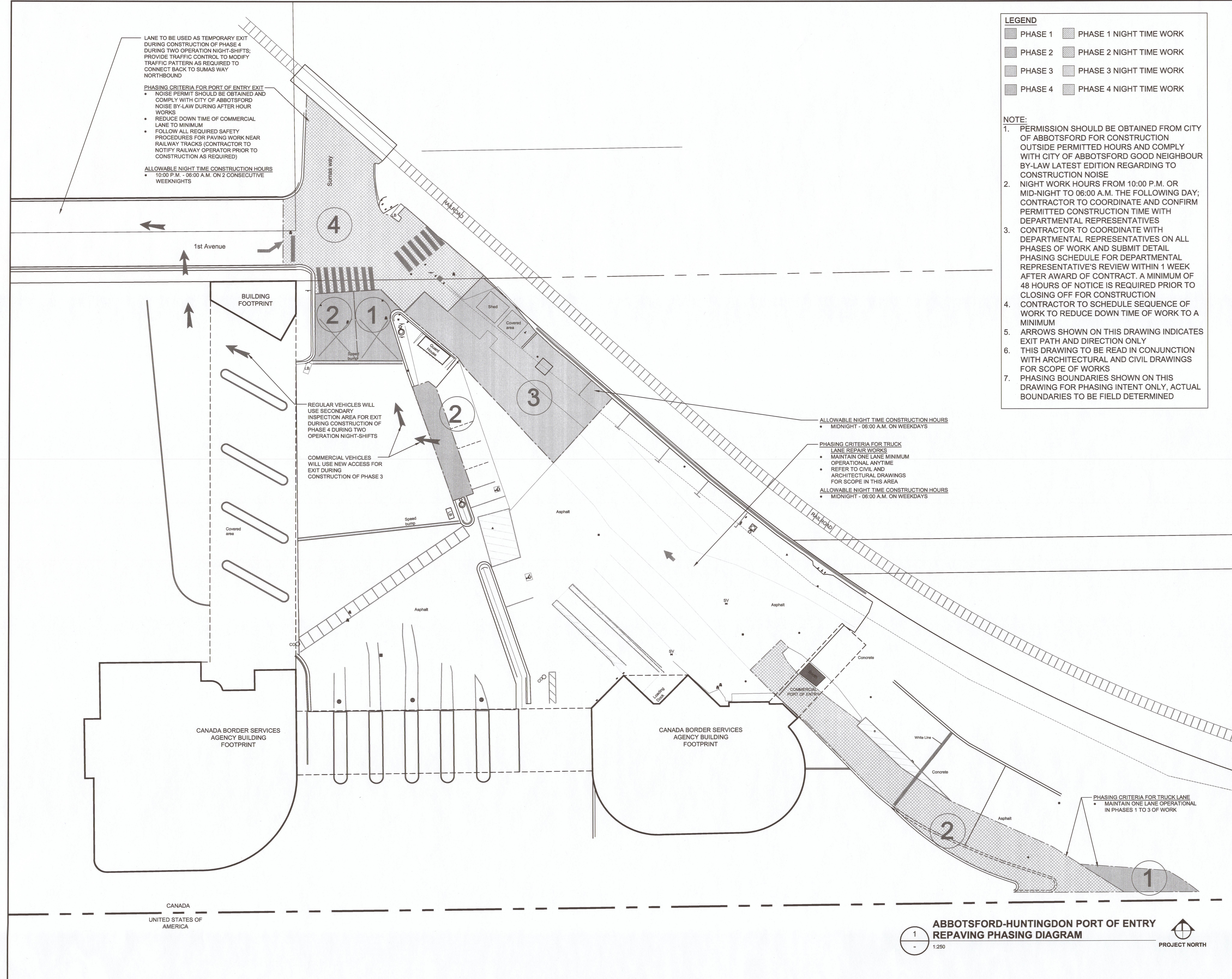
Project title/Titre du projet
28 176TH STREET, SURREY, B.C.
2 SUMAS WAY, HUNTINGDON, B.C., V2S 8B7

PACIFIC HIGHWAY PORT OF ENTRY AND ABBOTSFORD-HUNTINGDON PORT OF ENTRY REPAVING

Consultant Signature Only
 Designed by/Concept par
T.Y.
 Drawn by/Dessiné par
b.w.
 PWGSC Project Manager/Administrateur de Projets TPSGC
JULIAN HO
 Regional Manager, Architectural and Engineering Services
 Gérant régional, Services d'architecture et de génie, TPSGC
PREETIPAL PAUL
 Drawing title/Titre du dessin

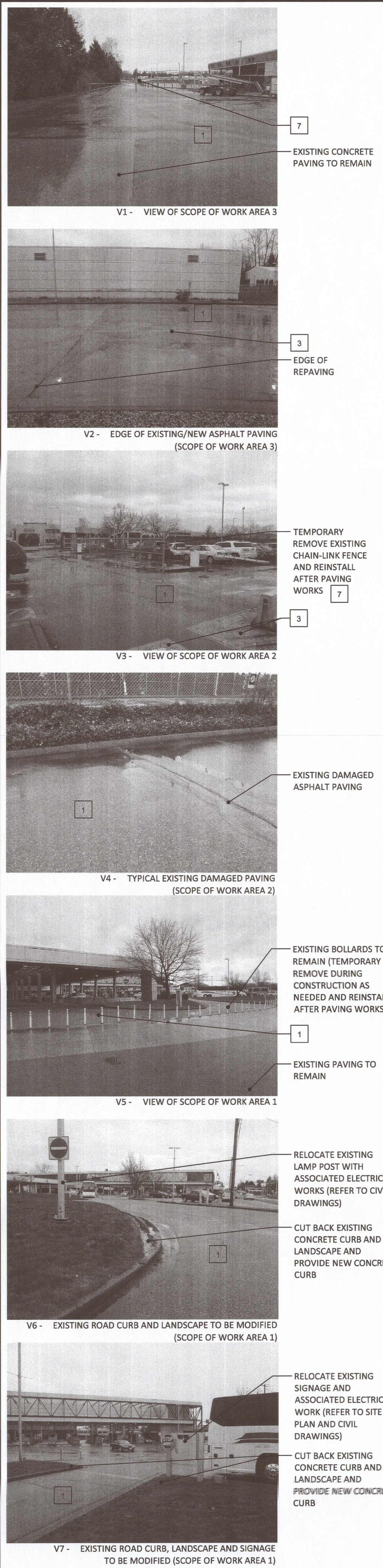
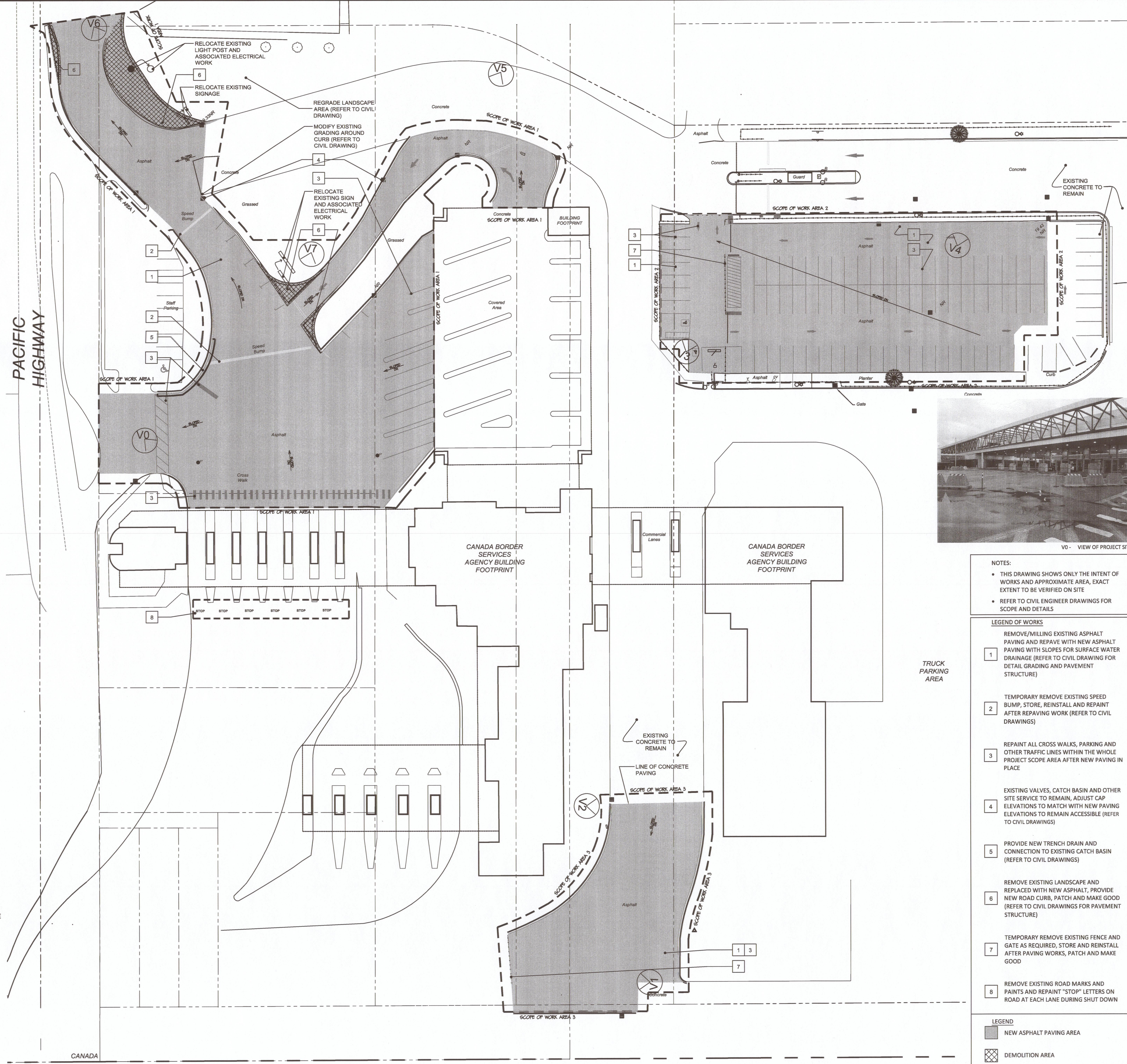
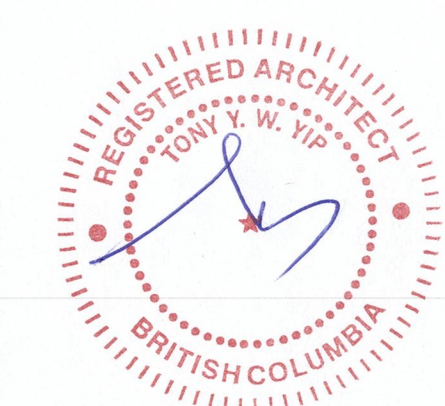
ABBOTSFORD-HUNTINGDON PORT OF ENTRY REPAVING PHASING DIAGRAM

Project No./No. du projet R.078171.001	Sheet/Feuille A-02 OF 5	Revision no./no. de révisión 2
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ABBOTSFORD-HUNTINGDON PORT OF ENTRY REPAVING PHASING DIAGRAM
 1:250
 PROJECT NORTH





V1 - VIEW OF SCOPE OF WORK AREA 3
 EXISTING CONCRETE PAVING TO REMAIN

V2 - EDGE OF EXISTING/NEW ASPHALT PAVING (SCOPE OF WORK AREA 3)
 EDGE OF REPAVING

V3 - VIEW OF SCOPE OF WORK AREA 2
 TEMPORARY REMOVE EXISTING CHAIN-LINK FENCE AND REINSTALL AFTER PAVING WORKS

V4 - TYPICAL EXISTING DAMAGED PAVING (SCOPE OF WORK AREA 2)
 EXISTING DAMAGED ASPHALT PAVING

V5 - VIEW OF SCOPE OF WORK AREA 1
 EXISTING BOLLARDS TO REMAIN (TEMPORARY REMOVE DURING CONSTRUCTION AS NEEDED AND REINSTALL AFTER PAVING WORKS)
 EXISTING PAVING TO REMAIN

V6 - EXISTING ROAD CURB AND LANDSCAPE TO BE MODIFIED (SCOPE OF WORK AREA 1)
 RELOCATE EXISTING LAMP POST WITH ASSOCIATED ELECTRICAL WORKS (REFER TO CIVIL DRAWINGS)
 CUT BACK EXISTING CONCRETE CURB AND LANDSCAPE AND PROVIDE NEW CONCRETE CURB

V7 - EXISTING ROAD CURB, LANDSCAPE AND SIGNAGE TO BE MODIFIED (SCOPE OF WORK AREA 1)
 RELOCATE EXISTING SIGNAGE AND ASSOCIATED ELECTRICAL WORK (REFER TO SITE PLAN AND CIVIL DRAWINGS)
 CUT BACK EXISTING CONCRETE CURB AND LANDSCAPE AND PROVIDE NEW CONCRETE CURB

NOTES:

- THIS DRAWING SHOWS ONLY THE INTENT OF WORKS AND APPROXIMATE AREA, EXACT EXTENT TO BE VERIFIED ON SITE
- REFER TO CIVIL ENGINEER DRAWINGS FOR SCOPE AND DETAILS

- LEGEND OF WORKS**
- 1** REMOVE/MILLING EXISTING ASPHALT PAVING AND REPAVE WITH NEW ASPHALT PAVING WITH SLOPES FOR SURFACE WATER DRAINAGE (REFER TO CIVIL DRAWING FOR DETAIL GRADING AND PAVEMENT STRUCTURE)
 - 2** TEMPORARY REMOVE EXISTING SPEED BUMP, STORE, REINSTALL AND REPAINT AFTER REPAVING WORK (REFER TO CIVIL DRAWINGS)
 - 3** REPAINT ALL CROSS WALKS, PARKING AND OTHER TRAFFIC LINES WITHIN THE WHOLE PROJECT SCOPE AREA AFTER NEW PAVING PLACE
 - 4** EXISTING VALVES, CATCH BASIN AND OTHER SITE SERVICE TO REMAIN, ADJUST CAP ELEVATIONS TO MATCH WITH NEW PAVING ELEVATIONS TO REMAIN ACCESSIBLE (REFER TO CIVIL DRAWINGS)
 - 5** PROVIDE NEW TRENCH DRAIN AND CONNECTION TO EXISTING CATCH BASIN (REFER TO CIVIL DRAWINGS)
 - 6** REMOVE EXISTING LANDSCAPE AND REPLACED WITH NEW ASPHALT, PROVIDE NEW ROAD CURB, PATCH AND MAKE GOOD (REFER TO CIVIL DRAWINGS FOR PAVEMENT STRUCTURE)
 - 7** TEMPORARY REMOVE EXISTING FENCE AND GATE AS REQUIRED, STORE AND REINSTALL AFTER PAVING WORKS, PATCH AND MAKE GOOD
 - 8** REMOVE EXISTING ROAD MARKS AND PAINTS AND REPAINT "STOP" LETTERS ON ROAD AT EACH LANE DURING SHUT DOWN

LEGEND

- NEW ASPHALT PAVING AREA
- DEMOLITION AREA

SITE PLAN
SITE 1 - PACIFIC HIGHWAY PORT OF ENTRY
 1:400
 PROJECT NORTH

6		
4		
3		
2	ISSUED FOR TENDER	2016-11-22
1	90% CD REVIEW	2016-03-04
0	50% CD REVIEW	2016-02-03
Revision/	Description/Description	Date/Date
Client/client		

CANADA BORDER SERVICES AGENCY

Project Title/Titre du projet
28 176TH STREET, SURREY, B.C.
2 SUMAS WAY, HUNTINGDON, B.C., V2S 8B7

PACIFIC HIGHWAY PORT OF ENTRY AND ABBOTSFORD-HUNTINGDON PORT OF ENTRY REPAVING

Consultant Signature Only

Designed by/Concept par
T.Y.

Drawn by/Dessiné par
b.w.

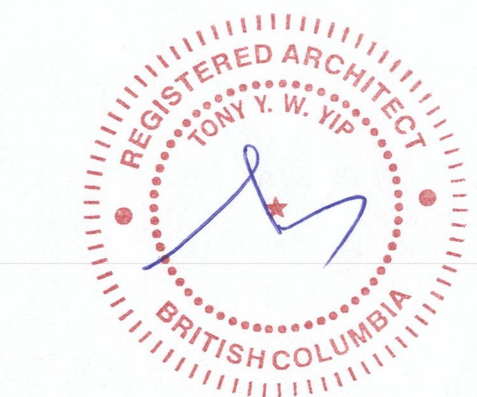
PWSC Project Manager/Administrateur de Projets TPSGC
JULIAN HO

Regional Manager, Architectural and Engineering Services
 Gestionnaire régional, Services d'architecture et de génie, TPSGC
PREETIPAL PAUL

Drawing Title/Titre du dessin

PACIFIC HIGHWAY PORT OF ENTRY SITE PLAN

Project No./No. du projet R.078171.001	Sheet/Feuille A-03 OF 5	Revision no./La Révision no. 2
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5		
4		
3	ISSUED FOR TENDER	2016-11-22
2	REVISED WITH RUS COMMENTS	2016-08-11
1	REVISED WITH RUS COMMENTS	2016-07-26
0	SUBMITTED FOR REVIEW	2016-06-23
Revision/	Description/Description	Date/Date
Client/client		

CANADA BORDER SERVICES AGENCY

Project title/Titre du projet
28 176TH STREET, SURREY, B.C.
2 SUMAS WAY, HUNTINGDON, B.C., V2S 8B7

PACIFIC HIGHWAY PORT OF ENTRY AND ABBOTSFORD-HUNTINGDON PORT OF ENTRY REPAVING

Consultant Signature Only

Designed by/Concept par
T.Y.

Drawn by/Dessine par
b.w.

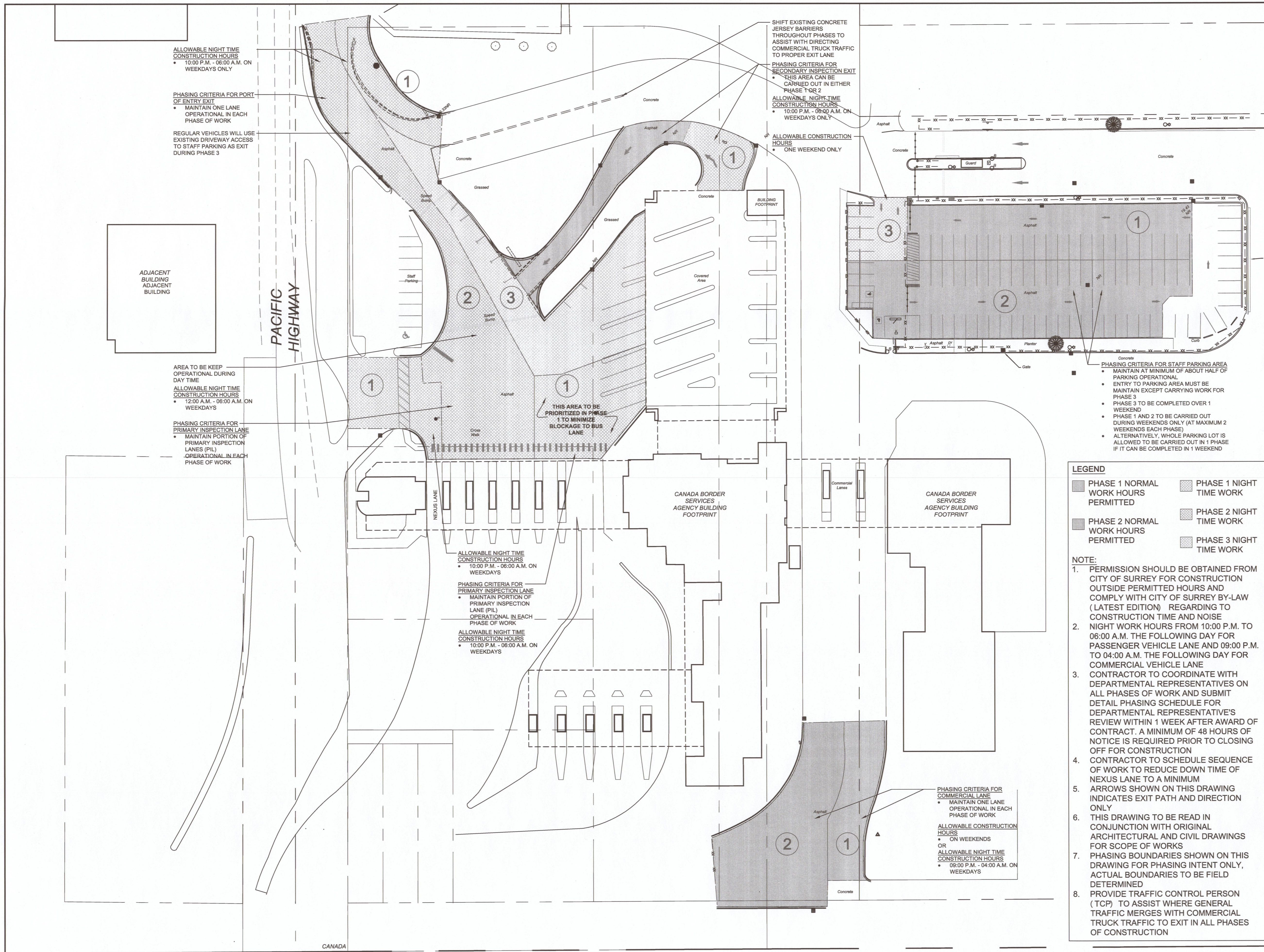
PWOSC Project Manager/Administrateur de Projets IPSOC
JULIAN HO

Regional Manager, Architectural and Engineering Services
 Gestionnaire régional, Services d'architectural et de génie, IPSOC
PREETIPAL PAUL

Drawing title/Titre du dessin

PACIFIC HIGHWAY PORT OF ENTRY SITE PHASING DIAGRAM

Project No./No. du projet	Sheet/Feuille	Revision no./La Révision no.
R.078171.001	A-04 OF 5	3



ALLOWABLE NIGHT TIME CONSTRUCTION HOURS
 • 10:00 P.M. - 06:00 A.M. ON WEEKDAYS ONLY

PHASING CRITERIA FOR PORT OF ENTRY EXIT
 • MAINTAIN ONE LANE OPERATIONAL IN EACH PHASE OF WORK

REGULAR VEHICLES WILL USE EXISTING DRIVEWAY ACCESS TO STAFF PARKING AS EXIT DURING PHASE 3

ADJACENT BUILDING ADJACENT BUILDING

PACIFIC HIGHWAY

AREA TO BE KEEP OPERATIONAL DURING DAY TIME
 ALLOWABLE NIGHT TIME CONSTRUCTION HOURS
 • 12:00 A.M. - 06:00 A.M. ON WEEKDAYS

PHASING CRITERIA FOR PRIMARY INSPECTION LANE
 • MAINTAIN PORTION OF PRIMARY INSPECTION LANES (PIL) OPERATIONAL IN EACH PHASE OF WORK

ALLOWABLE NIGHT TIME CONSTRUCTION HOURS
 • 10:00 P.M. - 06:00 A.M. ON WEEKDAYS

PHASING CRITERIA FOR PRIMARY INSPECTION LANE (PIL)
 • MAINTAIN PORTION OF PRIMARY INSPECTION LANE (PIL) OPERATIONAL IN EACH PHASE OF WORK

ALLOWABLE NIGHT TIME CONSTRUCTION HOURS
 • 10:00 P.M. - 06:00 A.M. ON WEEKDAYS

SHIFT EXISTING CONCRETE JERSEY BARRIERS THROUGHOUT PHASES TO ASSIST WITH DIRECTING COMMERCIAL TRUCK TRAFFIC TO PROPER EXIT LANE
 PHASING CRITERIA FOR SECONDARY INSPECTION EXIT
 • THIS AREA CAN BE CARRIED OUT IN EITHER PHASE 1 OR 2

ALLOWABLE NIGHT TIME CONSTRUCTION HOURS
 • 10:00 P.M. - 06:00 A.M. ON WEEKDAYS ONLY

ALLOWABLE CONSTRUCTION HOURS
 • ONE WEEKEND ONLY

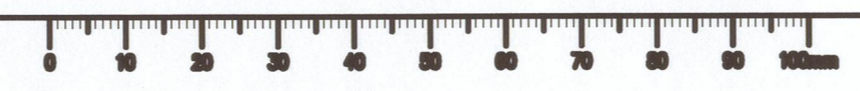
THIS AREA TO BE PRIORITIZED IN PHASE 1 TO MINIMIZE BLOCKAGE TO BUS LANE

PHASING CRITERIA FOR COMMERCIAL LANE
 • MAINTAIN ONE LANE OPERATIONAL IN EACH PHASE OF WORK
 ALLOWABLE CONSTRUCTION HOURS
 • ON WEEKENDS OR
 ALLOWABLE NIGHT TIME CONSTRUCTION HOURS
 • 09:00 P.M. - 04:00 A.M. ON WEEKDAYS

LEGEND

[Pattern]	PHASE 1 NORMAL WORK HOURS PERMITTED	[Pattern]	PHASE 1 NIGHT TIME WORK
[Pattern]	PHASE 2 NORMAL WORK HOURS PERMITTED	[Pattern]	PHASE 2 NIGHT TIME WORK
[Pattern]		[Pattern]	PHASE 3 NIGHT TIME WORK

- NOTE:**
- PERMISSION SHOULD BE OBTAINED FROM CITY OF SURREY FOR CONSTRUCTION OUTSIDE PERMITTED HOURS AND COMPLY WITH CITY OF SURREY BY-LAW (LATEST EDITION) REGARDING TO CONSTRUCTION TIME AND NOISE
 - NIGHT WORK HOURS FROM 10:00 P.M. TO 06:00 A.M. THE FOLLOWING DAY FOR PASSENGER VEHICLE LANE AND 09:00 P.M. TO 04:00 A.M. THE FOLLOWING DAY FOR COMMERCIAL VEHICLE LANE
 - CONTRACTOR TO COORDINATE WITH DEPARTMENTAL REPRESENTATIVES ON ALL PHASES OF WORK AND SUBMIT DETAIL PHASING SCHEDULE FOR DEPARTMENTAL REPRESENTATIVE'S REVIEW WITHIN 1 WEEK AFTER AWARD OF CONTRACT. A MINIMUM OF 48 HOURS OF NOTICE IS REQUIRED PRIOR TO CLOSING OFF FOR CONSTRUCTION
 - CONTRACTOR TO SCHEDULE SEQUENCE OF WORK TO REDUCE DOWN TIME OF NEXUS LANE TO A MINIMUM
 - ARROWS SHOWN ON THIS DRAWING INDICATES EXIT PATH AND DIRECTION ONLY
 - THIS DRAWING TO BE READ IN CONJUNCTION WITH ORIGINAL ARCHITECTURAL AND CIVIL DRAWINGS FOR SCOPE OF WORKS
 - PHASING BOUNDARIES SHOWN ON THIS DRAWING FOR PHASING INTENT ONLY, ACTUAL BOUNDARIES TO BE FIELD DETERMINED
 - PROVIDE TRAFFIC CONTROL PERSON (TCP) TO ASSIST WHERE GENERAL TRAFFIC MERGES WITH COMMERCIAL TRUCK TRAFFIC TO EXIT IN ALL PHASES OF CONSTRUCTION



BENCHMARK:

BM1 MONUMENT
BM1 LOCATION
BM1 ELEV
BM2 MONUMENT
BM2 LOCATION
BM2 ELEV

NOTES:

- FOR NOTES & DETAILS, REFER TO SHEET 3 OF 4.
- FOR CONSTRUCTION JOINT, CONTROL JOINT, AND EXPANSION JOINT DETAILS, REFER TO SHEET 4 OF 4.
- FOR CONCRETE NOTES, REFER TO SHEET 4 OF 4.



REMOVE CONCRETE SLABS AND RECONSTRUCT 225mm THICK c/w 15M REBARS @ 250mm o/c BOTH WAYS. REGRADE EXIST BASE GRAVELS (150mm THICK CRUSH GRAVEL BASE MIN.) EXACT LIMITS TO BE CONFIRMED IN FIELD. REFER TO SHEET 4 OF 4 FOR CONCRETE NOTES & DETAILS (TYP.)

REMOVE EXIST. ASPHALT AND REPAVE TO MATCH EXIST. ASPHALT THICKNESS (100mm MIN) REGRADE TO ENSURE DRAINAGE IS DIRECTED TO EXIST. CATCH BASINS.

SAWCUT EXIST. DAMAGED CONCRETE/CONCRETE OR CONCRETE/ASPHALT JOINTS AND CONSTRUCT 300mm WDE, 225mm THICK CONCRETE BAND c/w 15M REBARS AS PER DETAILS ON SHEET 4 OF 4. NUMBER & LENGTH OF CONCRETE BANDS TO BE CONFIRMED IN FIELD (TYP.)

ADJUST ELEV. OF EXIST. VALVES, MANHOLE COVERS, CB RIMS, ETC TO MATCH NEW CONCRETE PAVEMENT (TYP.)

SAWCUT EXIST. DAMAGED CONCRETE/CONCRETE OR CONCRETE/ASPHALT JOINTS AND CONSTRUCT 300mm WDE, 225mm THICK CONCRETE BAND c/w 15M REBARS AS PER DETAILS ON SHEET 4 OF 4. NUMBER & LENGTH OF CONCRETE BANDS TO BE CONFIRMED IN FIELD (TYP.)

REINSTATE EXIST. PAVEMENT MARKINGS/PAINT LINES (TYP.)

REMOVE CONCRETE SLAB AND RECONSTRUCT 225mm THICK c/w 15M REBARS @ 250mm o/c BOTH WAYS. EXACT LIMITS TO BE CONFIRMED IN FIELD. REFER TO SHEET 4 OF 4 FOR CONCRETE NOTES & DETAILS (TYP.)

SAWCUT AND REMOVE EXIST. DAMAGED ASPHALT @ INTERFACE WITH CONCRETE (300mm MIN) (TYP.)

EX. ASPHALT TO REMAIN.

SAWCUT AND REMOVE EX. CONCRETE BARRIER CURB AND GUTTER. REMOVE EX. GRASS AND ORGANIC MATERIAL. WIDE AND PAVE LANE PER PAVEMENT STRUCTURE DETAIL ON SHEET 3. INSTALL NEW CONCRETE BARRIER CURB AT NEW CURB ALIGNMENT AND TIE IN EX. CURB. REMOVE EX. CHAINLINK FENCE AND SIGN TO FACILITATE CONSTRUCTION.

COMPLETION OF CONSTRUCTION: REINSTATE FENCE, POST AND SIGN AFTER CONSTRUCTION.

REMOVE EXIST. ASPHALT AND REPAVE TO MATCH EXITS. ASPHALT THICKNESS (100mm MIN) REGRADE TO ENSURE DRAINAGE IS DIRECTED TO EXIST. CATCHBASINS.

REMOVE EXIST. LOCK BLOCK. INSTALL NEW CURB AND GUTTER FROM INTERNATIONAL BOUNDARY AND TIE IN TO EXIST. CURB. EXTEND PAVEMENT TO NEW CURB PER PAVEMENT STRUCTURE DETAIL ON SHEET 3.

ADJUST CB TO SUIT FINISHED GRADE.

PROTECT EXIST. CATCH BASINS WITHIN CONSTRUCTION AREA DURING CONSTRUCTION. USE FLEXSTORM CATCH-IT INLET PROTECTION OR APPROVED EQUIVALENT. TYPICAL FOR ALL CB'S WITHIN CONSTRUCTION ZONE.

EXIST. PIL BOOTH TO REMAIN.

MAINTAIN EXIST. CONCRETE CURB & GUTTER (TYP.)



REMOVE EXIST. FULL DEPTH PAVEMENT STRUCTURE AND INSTALL NEW SUBBASE, BASE AND ASPHALT PER PAVEMENT STRUCTURE ON SHEET 3 OF 4. REGRADE TO ENSURE DRAINAGE IS DIRECTED TO EXIST. CATCHBASINS. REINSTATE EXISTING PAVEMENT MARKINGS AS REQUIRED AFTER CONSTRUCTION.

ADJUST ELEV. OF EXIST. VALVES, MANHOLE COVERS, CB RIMS, ETC. TO MATCH NEW PAVEMENT (TYP.)

MAINTAIN EXIST. SPEED BUMP

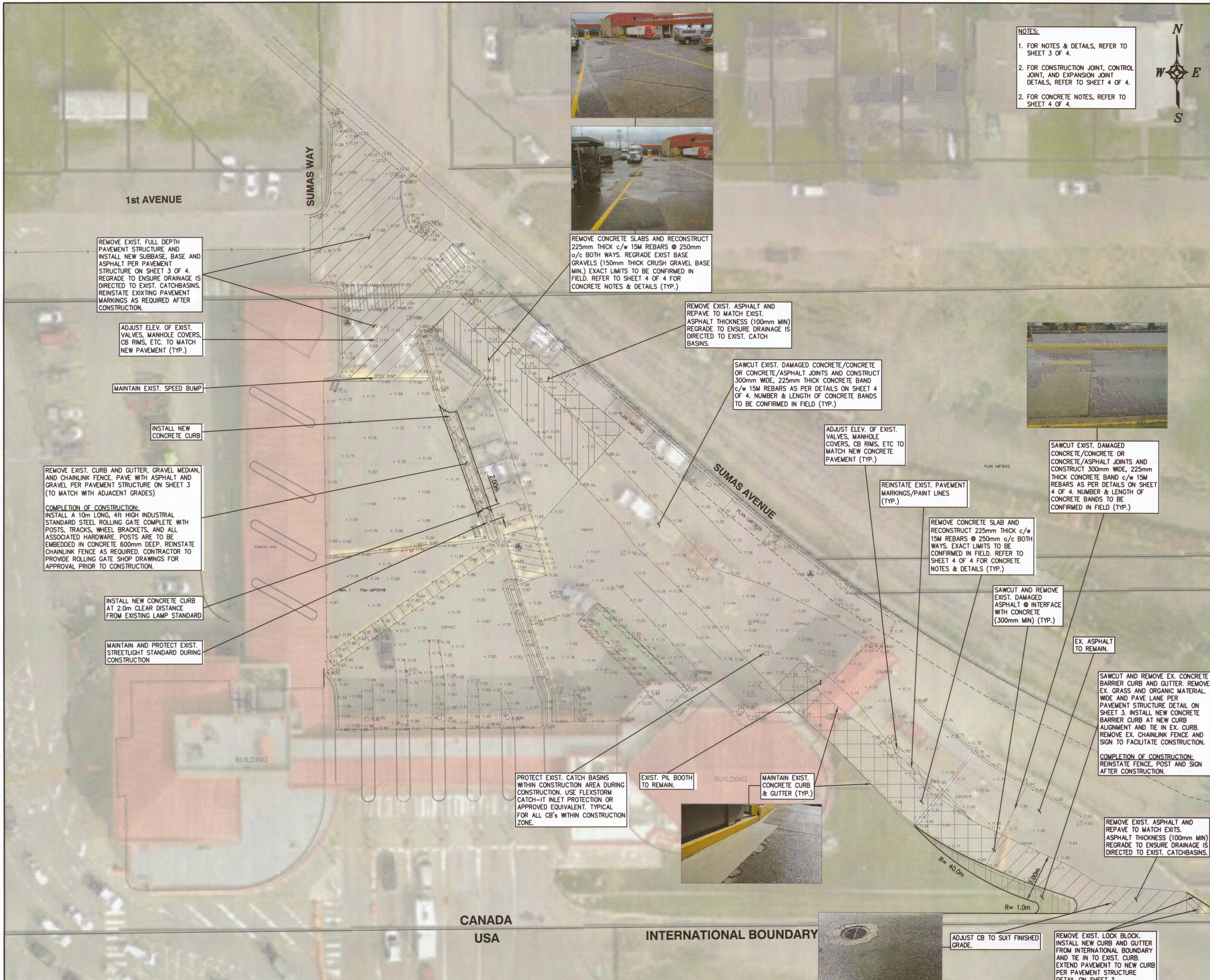
INSTALL NEW CONCRETE CURB

REMOVE EXIST. CURB AND GUTTER, GRAVEL MEDIAN, AND CHAINLINK FENCE. PAVE WITH ASPHALT AND GRAVEL PER PAVEMENT STRUCTURE ON SHEET 3 (TO MATCH WITH ADJACENT GRADES)

COMPLETION OF CONSTRUCTION: INSTALL A 10m LONG, 4ft HIGH INDUSTRIAL STANDARD STEEL ROLLING GATE COMPLETE WITH POSTS, TRACKS, WHEEL BRACKETS, AND ALL ASSOCIATED HARDWARE. POSTS ARE TO BE EMBEDDED IN CONCRETE 600mm DEEP. REINSTATE CHAINLINK FENCE AS REQUIRED. CONTRACTOR TO PROVIDE ROLLING GATE SHOP DRAWINGS FOR APPROVAL PRIOR TO CONSTRUCTION.

INSTALL NEW CONCRETE CURB AT 2.0m CLEAR DISTANCE FROM EXISTING LAMP STANDARD

MAINTAIN AND PROTECT EXIST. STREETLIGHT STANDARD DURING CONSTRUCTION



Revision/Description	Date/Date
5	
4	
3	ISSUED FOR TENDER 18-11-16
2	ISSUED FOR TENDER 24-03-16
1	95% CD REVIEW 02-03-16
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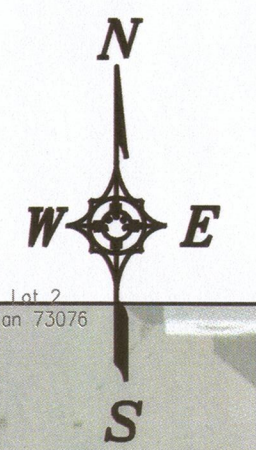
Client/client
CANADA BORDER SERVICES AGENCY (CBSA)
2 SUMAS WAY, HUNTINGDON
B.C. V2S 8B7

Project title/Titre du projet
ABBOTSFORD-HUNTINGDON PORT OF ENTRY
2 SUMAS WAY, HUNTINGDON, BC
ADDITION & SITE WORKS

Consultant Signature Only
GH
Designed by/Concept par
GH
Drawn by/Dessiné par
KF / 2016-01-26
PWSC Project Manager/Administrateur de Projets TPSGC
Regional Manager, Architectural and Engineering Services
Gestionnaire régionale, Services d'architectural et de génie, TPSGC

Drawing title/Titre du dessin
ABBOTSFORD-HUNTINGDON PORT OF ENTRY SITE PLAN

15-0521
Project No./No. du projet: R078171.001
Sheet/Feuille: C001 OF 4
Revision no./La Révision no.: 3



BENCHMARK:
 BM1 MONUMENT
 BM1 LOCATION
 BM1 ELEV
 BM2 MONUMENT
 BM2 LOCATION
 BM2 ELEV



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Revision/Revisions	Description/Description	Date/Date
5		
4		
3	ISSUED FOR TENDER	18-11-16
2	ISSUED FOR TENDER	24-03-16
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Client/Client
CANADA BORDER SERVICES AGENCY (CBSA)
 28 176th STREET, SURREY
 B.C. V3Z 9R9

Project title/Titre du projet
PACIFIC HIGHWAY PORT OF ENTRY
 28 176th STREET, SURREY, BC
ADDITION & SITE WORKS

Consultant Signature Only
 GH
Designed by/Conçu par
 GH
Drawn by/Dessiné par
 KF / 2016-01-26
PWOSC Project Manager/Administrateur de Projets TPSGC

Regional Manager, Architectural and Engineering Services
 Gestionnaire régionale, Services d'architectural et de génie, TPSGC

Drawing title/Titre du dessin
PACIFIC HIGHWAY PORT OF ENTRY
SITE PLAN

15-0521
Project No./No. du projet
 R078171.001
Sheet/Fauille
 C002
 OF 4
Revision no./La Révision
 no. 3



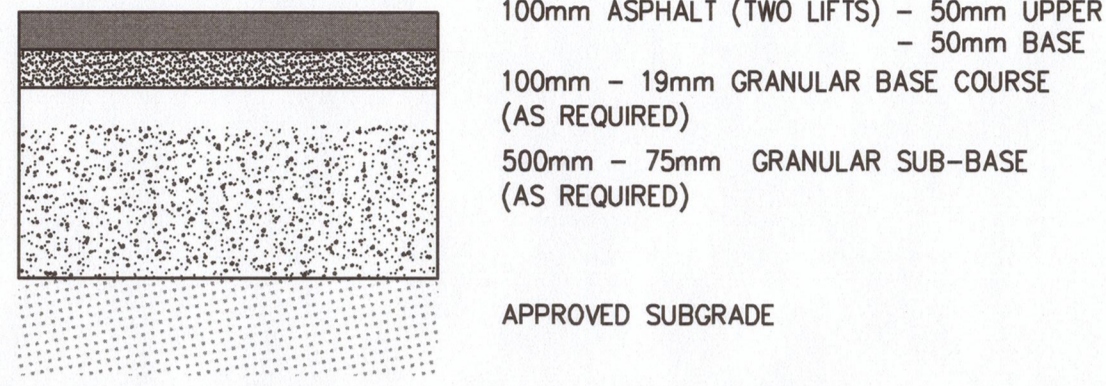
REFER TO SHEET 3 & 4 FOR NOTES AND DETAILS.

GENERAL NOTES:

- 1 - THE CONTRACTOR IS TO NOTIFY THE DEPARTMENTAL REPRESENTATIVE 48 HRS. PRIOR TO CONSTRUCTION TO VERIFY THAT THEY HAVE THE LATEST DRAWINGS ISSUED FOR CONSTRUCTION.
- 2 - THE CONTRACTOR IS TO NOTIFY THE DEPARTMENTAL REPRESENTATIVE AT:
 1. DELIVERY OF STORM SEWER MATERIALS TO SITE.
 2. INITIAL INSTALLATION OF STORM, SANITARY AND WATER CONSTRUCTION PRIOR TO BACKFILLING.
 3. GRADING OF ROAD SURFACES PRIOR TO PAVING.
- 3 - THE CONTRACTOR IS TO MAINTAIN A COMPLETE SET OF CIVIL DRAWINGS MARKED UP IN RED TO RECORD THE CONSTRUCTION OF ALL SITE SERVICES ON THIS PROJECT. THIS REDLINED SET IS TO BE AVAILABLE ONSITE FOR THE DEPARTMENTAL REPRESENTATIVE TO REVIEW AT ALL TIMES. AT THE COMPLETION OF THE CIVIL WORKS, THIS MARKED UP SET IS TO BE SUBMITTED TO THE DEPARTMENTAL REPRESENTATIVE FOR THEIR RECORDS.
- 4 - ALL ON-SITE SERVICES ARE TO BE CONSTRUCTED IN ACCORDANCE WITH THE NATIONAL BUILDING CODE 2015, B.C. BUILDING CODE 2012, AND THE B.C. PLUMBING CODE 2012. ANY PIPE WORKS CONSTRUCTED WITHIN THE PROPOSED AND EXISTING MUNICIPAL RIGHTS-OF-WAY ARE TO CONFORM TO THE NATIONAL MASTER SPECIFICATIONS.
- 5 - ALL SITE WORK, TRENCHING, EXCAVATION, BACKFILL, ROAD WORKS AND CONCRETE WORKS ARE TO BE SUPPLIED AND CONSTRUCTED IN ACCORDANCE WITH THE NATIONAL MASTER SPECIFICATIONS.
- 6 - THE CONTRACTOR SHALL ENSURE THAT ALL APPROVALS REQUIRED FOR THE PROPOSED WORK HAVE BEEN OBTAINED PRIOR TO COMMENCEMENT OF ANY CONSTRUCTION. THE CONTRACTOR IS TO CHECK WITH FORTIS GAS, B.C. HYDRO AND TELUS PRIOR TO COMMENCING WORK TO VERIFY THE LOCATIONS AND INVERTS OF THESE SERVICES.
- 7 - ALL MATERIALS TESTING MUST BE DONE IN ACCORDANCE WITH THE NBC 2015 AND THE N.M.S. STANDARDS AND SPECIFICATIONS; TESTING IS TO BE CARRIED OUT BY A QUALIFIED MATERIALS TESTING FIRM AND PAID FOR BY THE CONTRACTOR. THE DEPARTMENTAL REPRESENTATIVE SHALL RECEIVE COPIES OF ALL TEST RESULTS FROM THE CONTRACTOR.
- 8 - ANY MATERIAL SUBSTITUTION MUST BE APPROVED BY THE DEPARTMENTAL REPRESENTATIVE.
- 9 - WORKSAFE BC IS TO BE NOTIFIED PRIOR TO THE START OF CONSTRUCTION.
- 10 - THE CONTRACTOR WILL BE HELD RESPONSIBLE FOR REPAIR OF ANY DAMAGE CAUSED TO EXISTING STREET OR SERVICES BY CONSTRUCTION EQUIPMENT AND/OR TRUCKS HAULING MATERIAL TO THE SITE. THIS MAY INCLUDE DAILY CLEANING OR SWEEPING EXISTING ROADS OF DIRT AND DEBRIS CAUSED BY THE CONSTRUCTION ACTIVITY.
- 11 - ALL LOCATIONS AND ELEVATIONS OF EXISTING UNDERGROUND SERVICES HAVE BEEN DETERMINED FROM AS-CONSTRUCTED DRAWINGS, AND THE DEPARTMENTAL REPRESENTATIVE CANNOT BE HELD RESPONSIBLE FOR THEIR ACCURACY. THE CONTRACTOR IS TO VERIFY THE LOCATIONS OF ALL EXISTING SERVICES AND TIE-IN POINTS PRIOR TO CONSTRUCTION AND TO NOTIFY THE DEPARTMENTAL REPRESENTATIVE OF ANY DISCREPANCIES, CONFLICTS OR OMISSIONS.
- 12 - OPEN TRENCH OPERATIONS IN EXISTING PAVEMENT SHALL BE VERTICAL AND REPLACED WITH HOT MIX ASPHALT AFTER BACKFILL AND COMPACTION WITHIN 48 HOURS OF TRENCH WORK. NO TRENCHES IN EXISTING ROADWAYS SHALL BE LEFT UNCOVERED OVERNIGHT; THEY SHALL BE TEMPORARILY BACKFILLED AND SURFACED WITH COLD MIX ASPHALT, OR STEEL PLATES SHALL BE USED TO COVER THE TRENCHES. ALL PAVEMENT, BOULEVARDS, ETC. ARE TO BE RESTORED TO ORIGINAL CONDITIONS WHERE NO IMPROVEMENT IS PROPOSED UNDER THIS CONTRACT.
- 13 - THE CONTRACTOR SHALL USE EXTREME CARE WHEN WORKING NEAR EXISTING SERVICES AND ANY SERVICES DISTURBED ARE TO BE REPLACED TO THE SATISFACTION OF THE DEPARTMENTAL REPRESENTATIVE OR OTHER APPROVING AGENCIES.
- 14 - ALL SURVEY MONUMENTS MUST BE PROTECTED AND ANY DAMAGE IS TO BE REPAIRED AT THE CONTRACTOR'S EXPENSE.
- 15 - ALL EXISTING IMPROVEMENTS ARE TO BE RESTORED TO THE SATISFACTION OF THE DEPARTMENTAL REPRESENTATIVE OR OTHER APPROVING AGENCIES.
- 16 - FIGURED DIMENSIONS SHALL GOVERN OVER SCALED DIMENSION.
- 17 - CONTRACTOR TO SUBMIT CONSTRUCTION PHASING/TRAFFIC MANAGEMENT PLAN PRIOR TO CONSTRUCTION FOR REVIEW AND APPROVAL.

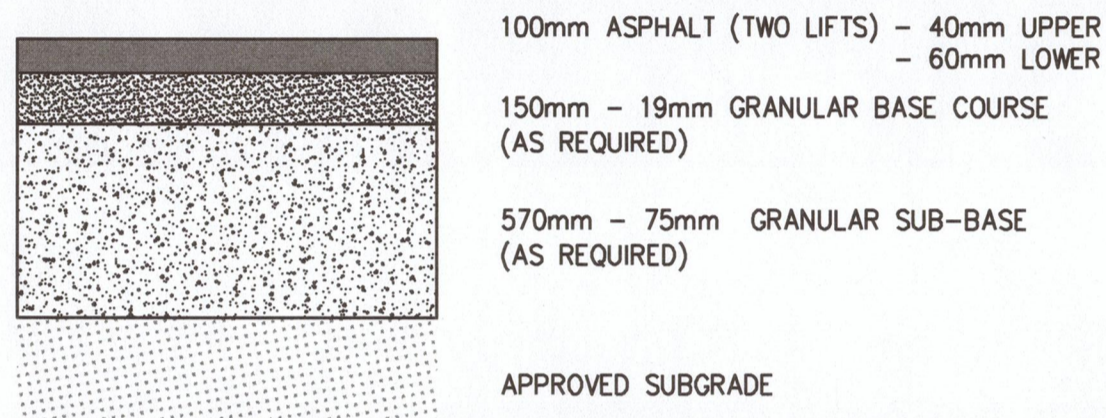
STORM NOTES

- 1 - ALL CONSTRUCTION TO BE IN ACCORDANCE WITH NATIONAL BUILDING CODE 2015 UNLESS SPECIFIED ELSEWHERE.
- 2 - A MINIMUM OF 1.2m COVER IS REQUIRED OVER EXTERIOR STORM PIPING.
- 3 - ALL STORM SEWER MAIN DEFLECTIONS ARE TO CONFORM TO THE MANUFACTURER'S SPECIFICATIONS.
- 4 - CATCH BASIN LEADS ARE TO BE 150mm (6") DIAMETER AT 1.0% MINIMUM UNLESS OTHERWISE NOTED.
- 5 - STORM SEWERS ARE TO BE PVC SDR 28 FOR PIPES UP TO 150mm (6") DIAMETER AND PVC SDR 35 FOR PIPES GREATER THAN 150mm (6") DIAMETER UNLESS OTHERWISE NOTED.
- 6 - ALL WYES ARE TO BE MANUFACTURED.
- 7 - STORM SEWERS ARE TO BE CONSTRUCTED WITH SEALED JOINTS UNLESS NOTED OTHERWISE.



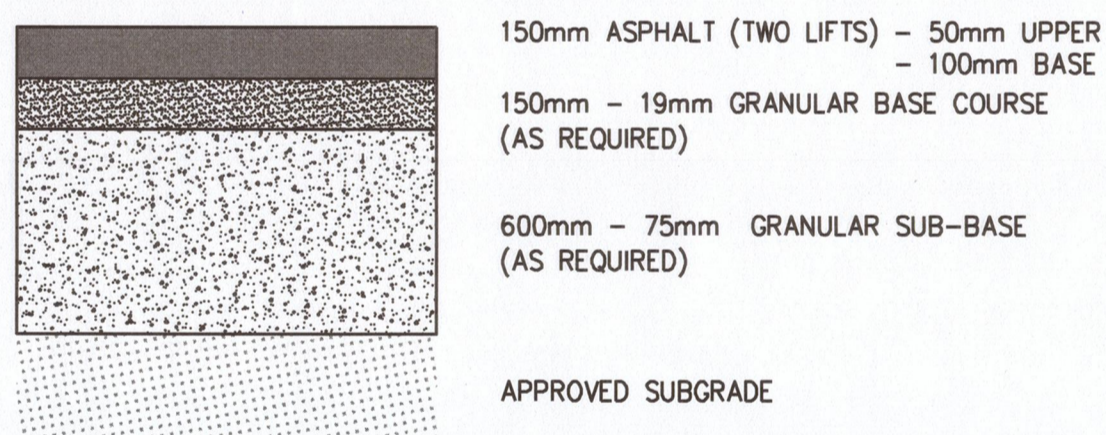
PACIFIC HIGHWAY PORT OF ENTRY ASPHALT PAVEMENT STRUCTURE

NOTE: N.T.S.
1.) APPROVED SUBGRADE AND ALL BASE & SUB-BASE MATERIALS TO BE COMPACTED TO 95% MODIFIED PROCTOR DENSITY.



ABBOTSFORD-HUNTINGDON PORT OF ENTRY ASPHALT PAVEMENT STRUCTURE NORTH OF USA/CANADA BORDER (WIDENING AREAS)

NOTE: N.T.S.
1.) APPROVED SUBGRADE AND ALL BASE & SUB-BASE MATERIALS TO BE COMPACTED TO 95% MODIFIED PROCTOR DENSITY.



ABBOTSFORD-HUNTINGDON PORT OF ENTRY ASPHALT PAVEMENT STRUCTURE AT 1ST AVENUE SUMAS WAY INTERSECTION

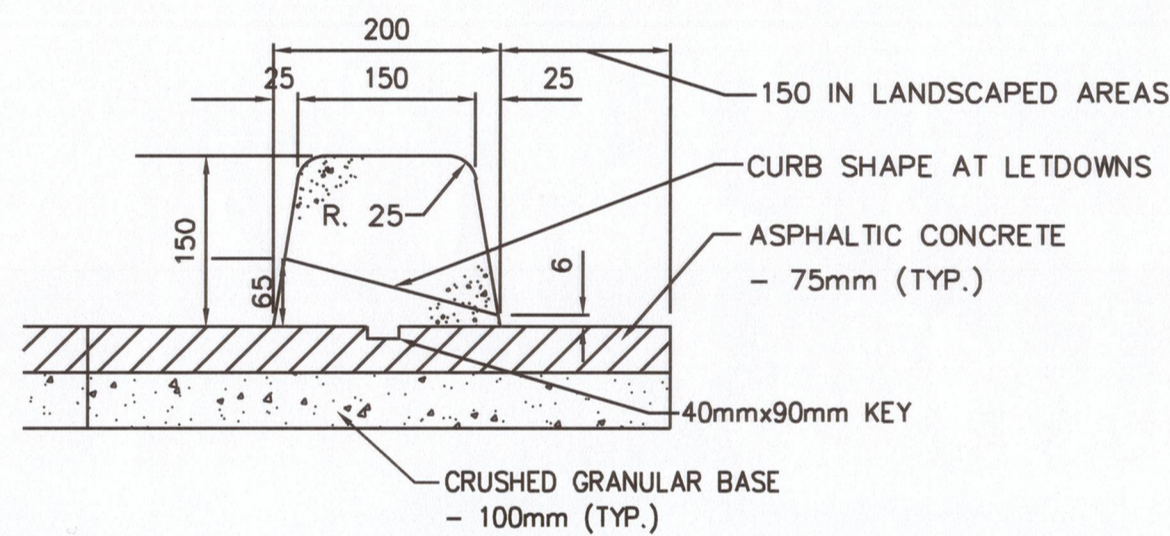
NOTE: N.T.S.
1.) APPROVED SUBGRADE AND ALL BASE & SUB-BASE MATERIALS TO BE COMPACTED TO 95% MODIFIED PROCTOR DENSITY.

ROADWORKS NOTES

- 1 - ALL MANHOLE LIDS, VALVE COVERS, CATCH BASIN RIMS AND LIDS OF ANY OTHER STRUCTURES TO BE ADJUSTED TO SUIT FINAL ROAD, SIDEWALK AND LANDSCAPING GRADES.
- 2 - THE SITE SHALL BE CLEARED AND GRUBBED AND ALL EXISTING CONCRETE AND LOOSE AND ORGANIC MATERIAL TO BE EXCAVATED AND REMOVED FROM THE SITE.
- 3 - ALL SUBGRADES AND GRANULAR BASE MATERIALS SHALL BE COMPACTED TO AT LEAST 95% OF THEIR MODIFIED PROCTOR DENSITY UNLESS OTHERWISE NOTED.
- 4 - CHANGES IN ROAD GRADES ARE TO BE FORMED WITH SMOOTH CURVES.
- 5 - DESIGN GRADES AT CATCH BASINS ARE PROPOSED FINISHED ROAD GRADES. ALL CATCH BASIN RIMS ARE TO BE SET 25mm BELOW PROPOSED FINISHED ROAD GRADES.
- 6 - ASPHALTIC CONCRETE SHALL BE LAID IN LIFTS AS SHOWN ON THE PAVEMENT SECTION.
- 7 - 48 HOURS PRIOR TO DELIVERY OF ANY GRAVELS TO THE SITE, THE CONTRACTOR WILL SUPPLY THE DEPARTMENTAL REPRESENTATIVE WITH A SIEVE AND GRADATION ANALYSIS OF EACH TYPE OF GRANULAR MATERIAL TO BE USED.
- 8 - TIE-INS TO EXISTING PAVEMENT SHALL BE MADE BY CUTTING BACK THE EXISTING PAVEMENT TO SOUND MATERIAL AS NECESSARY TO PRODUCE A NEAT, VERTICAL FACE WITH A STRAIGHT EDGE. PRIOR TO PLACING HOTMIX ASPHALTIC CONCRETE, EXPOSED PAVEMENT FACES SHALL BE PAINTED WITH LIQUID ASPHALT AND HEATED TO 65 DEGREES CELSIUS. THE FINISHED PAVEMENT SURFACE SHALL BLEND IN SMOOTHLY WITH EXISTING PAVEMENT. ALL PAVEMENTS, BOULEVARDS, ETC. ARE TO BE RESTORED TO ORIGINAL CONDITIONS WHERE NO IMPROVEMENT IS PROPOSED UNDER THIS CONTRACT.
- 9 - LOCATIONS OF DRIVEWAYS, WHEELCHAIR RAMPS, ETC. SHALL BE CONFIRMED IN THE FIELD PRIOR TO CONSTRUCTION OF ANY PROPOSED CONCRETE CURB AND GUTTER AND SIDEWALK.
- 10 - THE ROAD BASE SHALL EXTEND A MINIMUM OF 0.3m (1.0ft) BEYOND THE SIDEWALK AND/OR CURB AND GUTTER, WHICHEVER IS GREATER.
- 11 - TESTING BY CONTRACTOR WILL BE REQUIRED TO CONFIRM THE SUITABILITY OF THE ROAD STRUCTURE PRIOR TO PAVING.

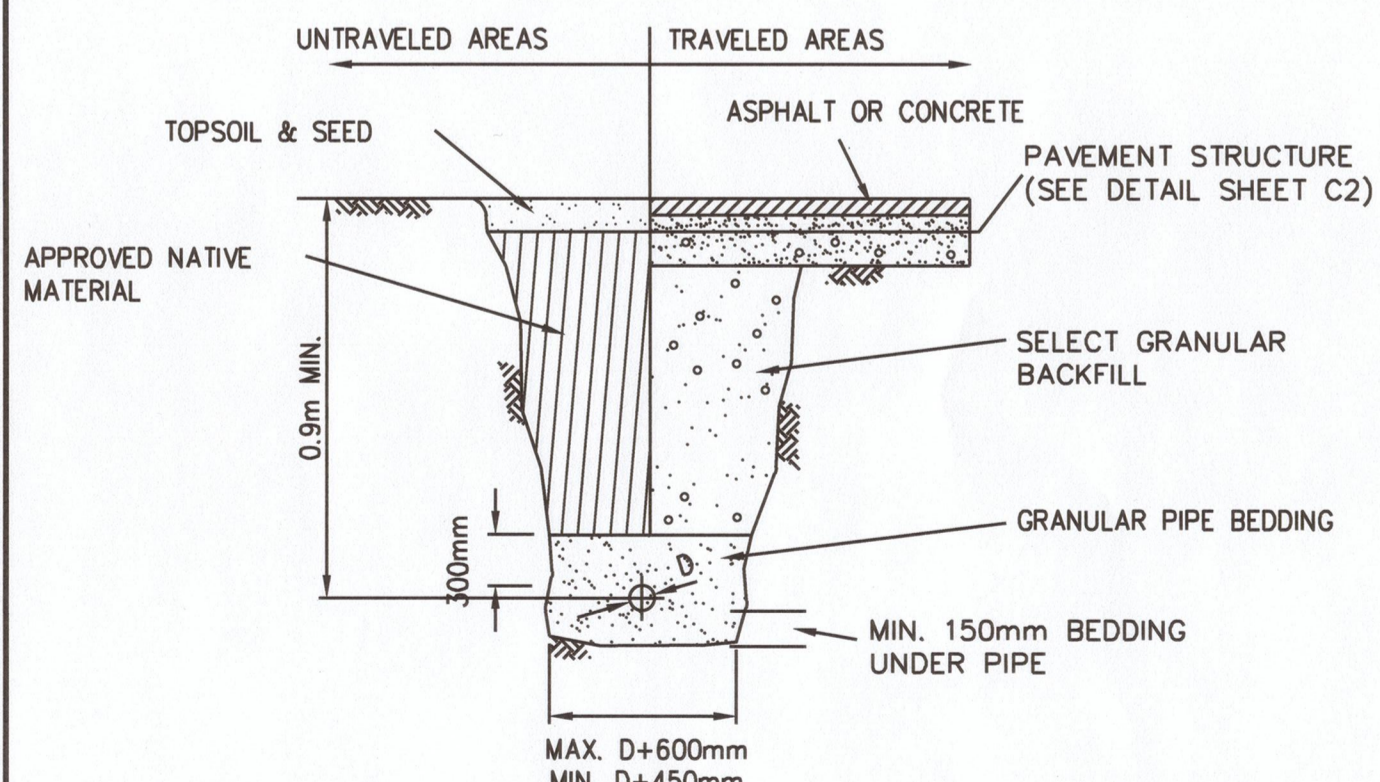
SILTATION CONTROL:

1. THE CONTRACTOR SHALL CONSTRUCT ALL SILTATION CONTROL WORKS TO THE REQUIREMENTS OF THE PROVINCIAL MINISTRY OF ENVIRONMENT AND PARKS, THE FEDERAL MINISTRY OF FISHERIES AND OCEANS, AND OTHER AGENCIES.
2. THE CONTRACTOR SHALL STOCKPILE ON SITE AT VARIOUS STRATEGIC LOCATIONS ADEQUATE SUPPLIES OF ALL MATERIALS REQUIRED TO PROTECT DOWNSTREAM WATERCOURSES FROM SILTATION.
3. THE CONTRACTOR SHALL SECURE ALL ENVIRONMENTAL APPROVALS IF REQUIRED.
4. THE CONTRACTOR SHALL COVER ANY SOIL STOCKPILES AND EXPOSED EARTH FILL SLOPES WITH 6 MIL POLYETHYLENE.
5. THE CONTRACTOR SHALL PLACE SILT FENCING AROUND SOIL STOCKPILES AND AT THE TOE OF EARTH FILL SLOPES.
6. THE CONTRACTOR SHALL ENSURE RUNOFF FROM SOIL STOCKPILES AND EXPOSED EARTH FILL SLOPES SHALL BE DIRECTED TO THE SILTATION CONTROL FACILITIES.
7. ALL RUNOFF WITHIN BLDG. EXCAVATIONS IS TO BE PUMPED TO ON SITE SILT TRAPS OR SILTATION POND.
8. THE CONTRACTOR SHALL REPAIR MACHINE TRACKS OR OTHER SURFACE DEFORMATIONS WHICH TEND TO ALTER DRAINAGE PATHS, AND TO CONCENTRATE DRAINAGE IN SUCH A WAY AS TO INCREASE EROSION.
9. THE CONTRACTOR SHALL ASSESS AND REVIEW THE EFFECTIVENESS OF TEMPORARY SEDIMENT CONTROL MEASURES AND SHALL DETERMINE THE NEED FOR ADDITIONAL MEASURES ON A CONTINUING BASIS.
10. THE CONTRACTOR SHALL INSPECT AND MAINTAIN SILTATION CONTROL ON A DAILY BASIS.
11. THE CONTRACTOR SHALL CORRECT ANY DEFICIENCIES IN EROSION AND SEDIMENTATION CONTROL IMMEDIATELY. IF THE CONTRACTOR FAILS TO CORRECT THESE DEFICIENCIES IN EROSION AND SEDIMENTATION CONTROL, THIS DEFAULT MAY BE CORRECTED BY THE OWNER AT THE CONTRACTOR'S EXPENSE.
12. THE CONTRACTOR SHALL INSPECT THE SEDIMENT CONTROL TRAP FACILITIES WEEKLY FOR EFFICIENCY OF OPERATION. AFTER EACH SIGNIFICANT RAINFALL, ANY VISIBLE DAMAGE TO THE TRAP STRUCTURE SHALL BE REPAIRED BY CONTRACTOR. THE SEDIMENT CONTROL TRAP SHALL BE CLEANED OUT BEFORE ITS STORAGE DEPTH COMES HALF FULL. WHEN REMOVING SEDIMENT, PLACE SEDIMENT WHERE IT WILL NOT ENTER A STORM DRAIN OR WATER COURSE AND WHERE IT WILL NOT RE ENTER THE SEDIMENT TRAP.
13. IT IS IMPORTANT THAT THE ROADWAYS BE KEPT CLEAN AND FREE OF SEDIMENT FROM TRUCKS LEAVING THE SITE. THE CONTRACTOR SHALL PERFORM STREET SWEEPING TO THE EXTENT NEEDED TO ENSURE THAT THIS AND OTHER ADJACENT ROADS ARE KEPT CLEAN.
14. THE CONTRACTOR SHALL MAINTAIN ALL ON AND OFF SITE SEDIMENT TRAPS UNTIL PROPOSED CONSTRUCTION IS COMPLETE.
15. UPON COMPLETION OF CONSTRUCTION, THE CONTRACTOR SHALL REMOVE ALL SILT FROM THE ON SITE STORM MAINS & DREDGE FLOW CONTROL MANHOLE TO THE SATISFACTION OF THE DEPARTMENTAL REPRESENTATIVE.
16. CONTRACTOR TO NOTIFY THE DEPARTMENTAL REPRESENTATIVE IN CASE CONTAMINATED SOILS ARE DISCOVERED DURING EXCAVATION.



EXTRUDED CONCRETE CURB ON PAVEMENT

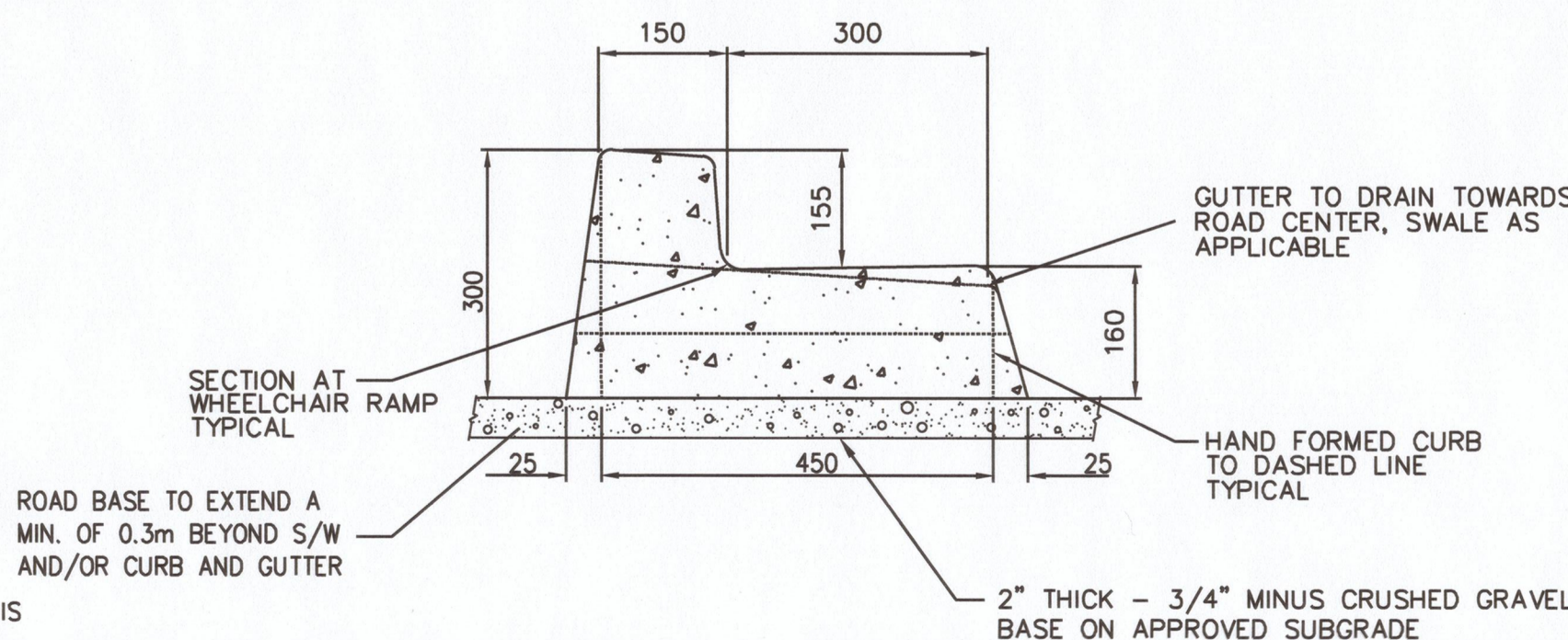
N.T.S.



NOTE: 1. A MINIMUM OF 0.9m COVER IS REQUIRED OVER EXTERIOR STORM AND SANITARY PIPING. IF COVER IS LESS THAN 0.9m, USE DWV PIPE.

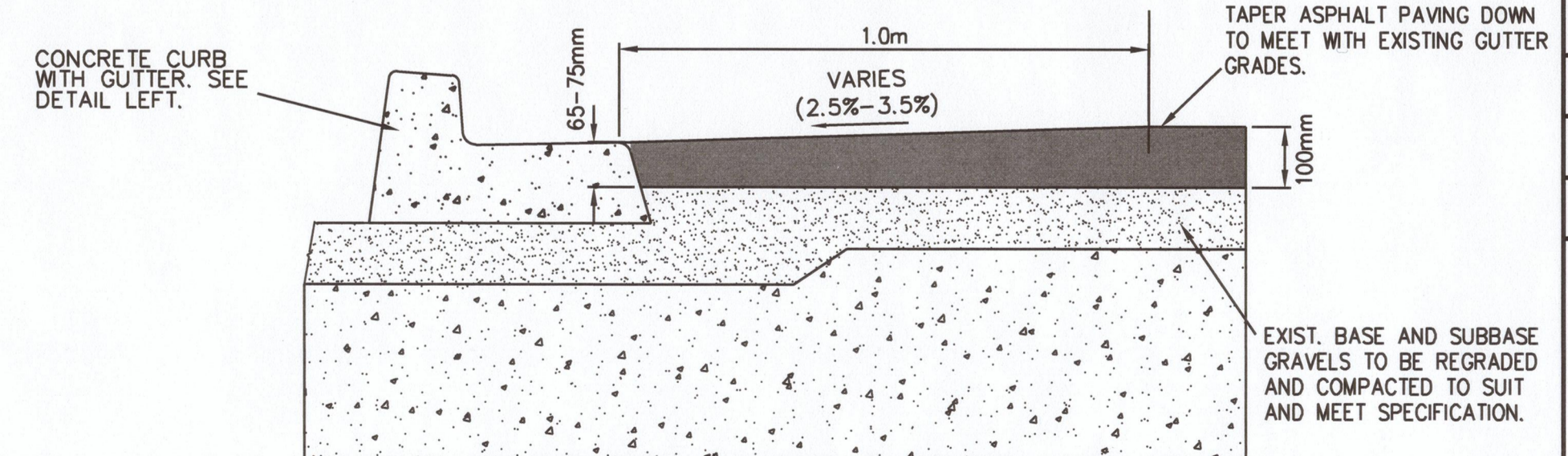
TYPICAL TRENCH CROSS SECTION

N.T.S.



CONCRETE BARRIER CURB WITH GUTTER

N.T.S.

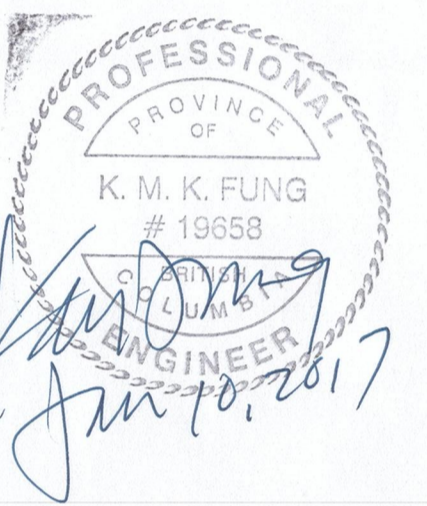


ASPHALT PAVING DETAIL AT CURB AT PACIFIC HIGHWAY PORT OF ENTRY

N.T.S.

BENCHMARK:

- BM1 MONUMENT
- BM1 LOCATION
- BM1 ELEV
- BM2 MONUMENT
- BM2 LOCATION
- BM2 ELEV



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CANADA BORDER SERVICES AGENCY (CBSA)
2 SUMAS WAY, HUNTINGDON B.C. V2S 8B7

Project title/Titre du projet
ABBOTSFORD-HUNTINGDON PORT OF ENTRY
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Drawing title/Titre du dessin
PACIFIC HIGHWAY AND ABBOTSFORD-HUNTINGDON PORT OF ENTRY REPAVING
NOTES & DETAILS

15-0521

Project No./No. du projet R078171.001	Sheet/Feuille C003 OF 4	Revision no./La Révision no. 3
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CONCRETE

- CONCRETE, CONCRETE MATERIALS AND METHODS OF CONSTRUCTION SHALL CONFORM TO CSA A23.1-09 AND A23.3-04, AND PARKING SLABS TO CONFORM TO S413-07.
- CONCRETE TO BE 35MPa AT 28 DAYS, EXPOSURE CLASS C1, AIR CONTENT 5% - 8%, MAX. AGGREGATE 20mm AND SLUMP 80 ± 20.
- FOR AREAS OF CONGESTED REINFORCEMENT, AND THIN CONCRETE SECTIONS, USE A REDUCED AGGREGATE SIZE IN THE CONCRETE MIX AND ADD SUPERPLASTICIZER TO MIX ON SITE TO INCREASE WORKABILITY.
- CONCRETE MIX DESIGNS TO BE SUBMITTED TO THE DEPARTMENTAL REPRESENTATIVE FOR REVIEW PRIOR TO COMMENCING THE WORK.
- CURING AND PROTECTION OF CONCRETE FOR HOT, COLD, OR DRY WEATHER TO BE IN ACCORDANCE WITH CSA A23.1, SECTION 7.4. PROVIDE MOIST CURE FOR 7 DAYS MINIMUM (ANY ALTERNATIVE METHOD MUST BE REVIEWED BY THE DEPARTMENTAL REPRESENTATIVE).
- LOCATION AND DETAILS OF CONSTRUCTION JOINTS TO BE REVIEWED BY THE DEPARTMENTAL REPRESENTATIVE.
- SEE DETAILS ON THESE DRAWINGS.
- PROVIDE SAWCUT CONTROL JOINTS IN SLAB-ON-GRADE. MAX PANEL SIZE 20 SQUARE METERS (TYP.)
- CALCIUM CHLORIDE IS NOT PERMITTED IN CONCRETE MIXES.
- CONCRETE COVER TO BE AS PER TABLE ON THESE DRAWINGS.
- CONCRETE TESTING AND INSPECTION TO BE IN ACCORDANCE WITH CSA A23.1.
- TESTING TO BE PAID FOR BY CONTRACTOR.

HOT WEATHER CONCRETE RECOMMENDATIONS FOR FLATWORK

SLABS-ON-GRADE, SUSPENDED SLABS, CONCRETE

- REVIEW CONCRETE REQUIREMENTS WITH SUPPLIER PRIOR TO THE DAY OF THE POUR.
 - DO NOT USE RETARDERS OR ACCELERATORS IN THE CONCRETE MIX, UNLESS AUTHORIZED BY THE DEPARTMENTAL REPRESENTATIVE.
 - KEEP SUPERPLASTICIZERS AVAILABLE AT THE SITE TO INCREASE WORKABILITY. DO NOT EXCEED RECOMMENDED STANDARD DOSAGES.
- PLACING**
- DO NOT ATTEMPT LARGE CONCRETE PLACEMENTS ON HOT DAYS.
 - SCHEDULE CONCRETE PLACEMENTS FOR AN EARLY MORNING START SO THE PLACEMENT IS COMPLETED BEFORE NOON.
 - FOR SLABS-ON-GRADE, DAMPEN THE SUB-GRADE THE DAY BEFORE THE PLACEMENT.
 - POLY BENEATH THE SLAB IS SOMETIMES BENEFICIAL IN HOT WEATHER CONCRETE PLACEMENTS. IT SHOULD BE PERFORATED WITH DRAIN HOLES AT 300mm CENTRES UNLESS REQUIRED AS A VAPOUR BARRIER.
 - ERECT WIND BREAKS TO PREVENT EXCESSIVE AND RAPID MOISTURE LOSS.
 - PLACE CONCRETE DIRECTLY FROM TRUCK CHUTE WHERE POSSIBLE.
 - ENSURE THERE ARE SUFFICIENT PLACERS AND FINISHERS AVAILABLE ON SITE.
 - USE AN EVAPORATION RETARDANT APPROVED BY THE DEPARTMENTAL REPRESENTATIVE. DO NOT ATTEMPT TO PLACE FLATWORK ON SUNNY DAYS WHERE PREDICTED TEMPERATURES EXCEED +30 DEGREES CELSIUS.
- CURING**
- APPLY SURFACE SEALERS AS SOON AS POSSIBLE AFTER THE FINAL TROWEL.
 - WET CURE CONCRETE FOR AT LEAST 7 DAYS. USE CONTINUOUS SPRINKLING OR FLOODING. DO NOT CURE UNDER POLY SHEETING OR WITH WET BURLAP.

REINFORCING STEEL

- BARS SHOWN THUS: INDICATE TOP REINFORCING STEEL.
- BARS SHOWN THUS: INDICATE BOTTOM REINFORCING STEEL.
- REINFORCING STEEL TO BE DEFORMED BARS CONFORMING TO CSA G30.18-M, GRADE 400 WELDABLE GRADE TYPICAL.
- MINIMUM LAPS OF REINFORCEMENT TO BE AS PER TABLE ON THESE DRAWINGS.
- HOOKS AND FABRICATION DETAILS TO CONFORM TO CAN/CSA A23.1
- ALL HOOKS TO BE "STANDARD" IN ACCORDANCE WITH A23.1 UNLESS NOTED OTHERWISE.
- "H.I.E." DENOTES HOOK ONE END AND THE LENGTH NOTED INCLUDES HOOK.
- CLEAR SPACING BETWEEN REINFORCING BARS PLACED IN ONE LAYER OR MINIMUM CLEAR SPACING BETWEEN LAYERS OF REINFORCEMENT TO BE AS FOLLOWS:
(UNLESS NOTED OTHERWISE)
20M - 30mm 30M - 40mm
25M - 35mm 35M - 50mm

CHAIRING OF REINFORCEMENT

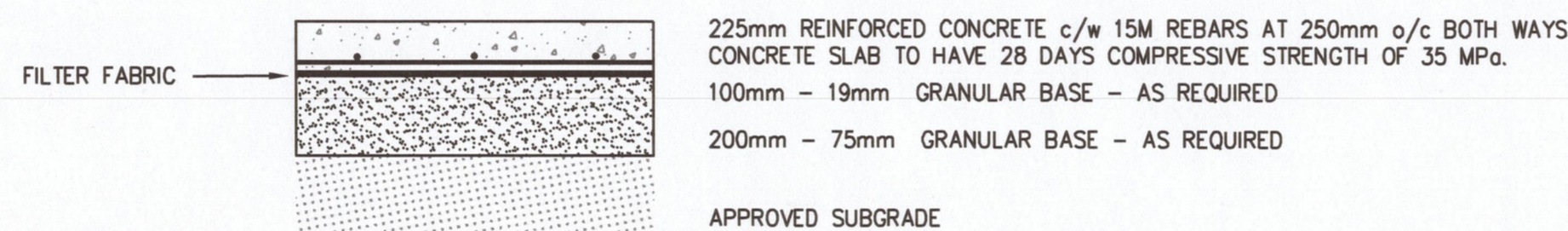
- PROVIDE SPACER BARS FOR BEAMS WITH MULTIPLE LAYERS OF REINFORCEMENT AT MAXIMUM 1200 ON CENTRE.
- USE 15M SUPPORT BARS AT 1200 MAXIMUM ON CENTRE AS WELL AS ONE 15M EACH SIDE OF SUPPORTING WALL OR BEAMS.
- FLYING ENDS OF TOP BARS NOT TO EXCEED 450 mm.
- CHAIR SUPPORT BARS AT 1200 ON CENTRE MAXIMUM.
- CHAIR BOTTOM REINFORCING AT 1200 ON CENTRE MAXIMUM EACH WAY.
- CHAIRS AND BOLSTERS TO BE PURPOSE MADE NON-METALLIC.
- POSITION CHAIRS FOR EXPOSED CONCRETE SLAB AND BEAM SOFFITS IN A REGULAR PATTERN CONFORMING WITH FINAL ARCHITECTURAL FINISH.
- PLASTIC TIES OR PLASTIC-COATED WIRES SHALL BE USED FOR TYING EPOXY-COATED REINFORCEMENT.
- PROVIDE REBAR CHAIRS FOR TOP BARS IN FOOTINGS.

EXTRA REINFORCEMENT

- PROVIDE TWO 15M CONTINUOUS AT THE ENDS AND TOPS OF WALLS AND EDGES OF ALL SLABS, MINIMUM.
- PROVIDE ON EACH FACE TWO 15M EXTRA TOP, BOTTOM AND EACH SIDE OF OPENINGS IN WALLS AND SLABS, RUN BARS 650 MINIMUM BEYOND OPENING. PROVIDE ONE 15M x 1200 DIAGONAL BAR AT EACH CORNER OF THE OPENING ON EACH FACE.
- FOR OPENINGS UP TO 450 WIDE, FLARE REINFORCEMENT AROUND OPENINGS. FOR OPENINGS OVER 450 WIDE, TERMINATE REINFORCEMENT AT OPENING. PROVIDE BARS, OF EQUAL NUMBER AND AREA TO THAT TERMINATED, ON EACH SIDE OF OPENING IN ADDITION TO THAT SPECIFIED ABOVE. RUN ALL EXTRA BARS CONTINUOUS TO THE SUPPORTS.
- PROVIDE CORNER BARS x 1200 LONG MINIMUM (HIE 600) TO MATCH SIZE AND SPACING OF HORIZONTAL REINFORCEMENT IN WALLS, FOOTINGS & GRADE BEAMS UNLESS NOTED OTHERWISE. REFER TO TYPICAL DETAIL ON THESE DRAWINGS.

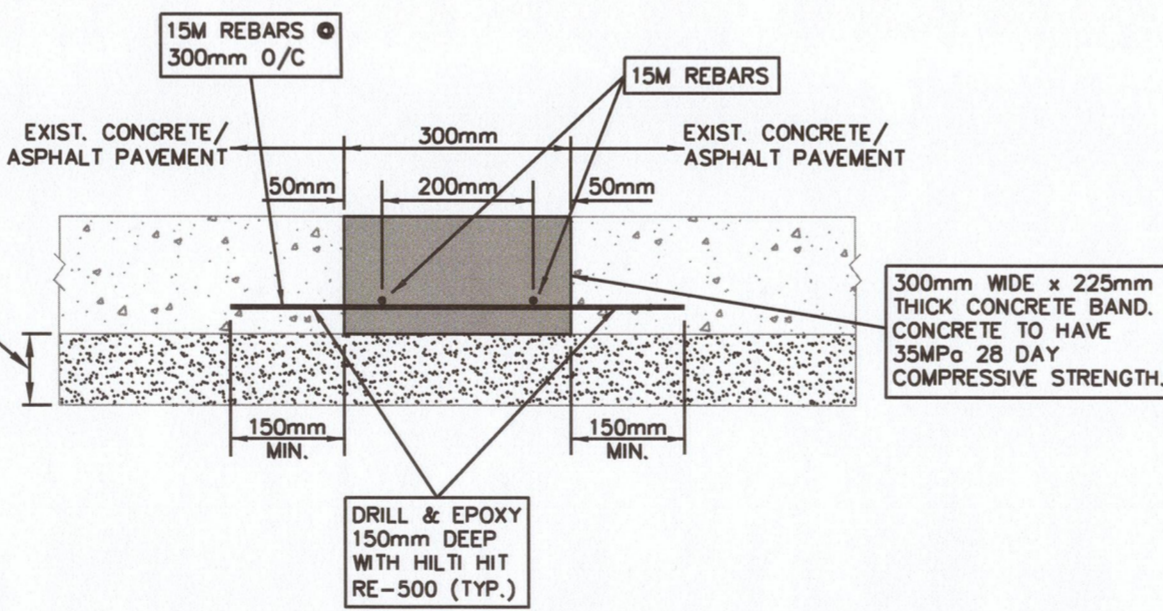
BAR SIZE	MINIMUM REINFORCEMENT SPLICE LENGTHS			
	VERT. OR BOT. REINFORCING	HORIZ. OR TOP REINFORCING	REINFORCING WITHIN TIED ZONES	MASONRY WALL REINFORCING
10M	450	550	500	500
15M	600	800	700	700
20M	750	950	850	1100
25M	1200	1550	1400	1750
30M	1400	1850	1650	-
35M	1700	2200	1950	-

ELEMENT	CONCRETE COVER TO BE MEASURED FROM INSIDE FACE OF REVEALS.		
	FIRE RATING		
	1 HR.	2 HR.	3 HR.
SURFACES CAST AGAINST GROUND	75	75	75
FORMED SURFACES OF BEAMS, COLUMNS AND PILASTERS (TO PRINCIPAL REINFORCEMENT)	40	40	50
FORMED SURFACES OF BEAMS, COLUMNS AND PILASTERS EXPOSED TO GROUND OR WEATHER (TO PRINCIPAL REINFORCEMENT)	50	50	50
WALLS, SLABS AND SLABBANDS			
-20mm BARS AND SMALLER	20	25	32
-25mm BARS	25	25	32
-30mm BARS	30	30	32
-35mm BARS	35	35	35
FORMED SURFACES OF WALLS EXPOSED TO GROUND OR WEATHER			
-20mm BARS AND SMALLER	30	30	32
-25mm BARS AND LARGER	50	50	50
PARKING AREA TOP STEEL	40	40	40
PARKING AREA BOTTOM STEEL	30	30	32



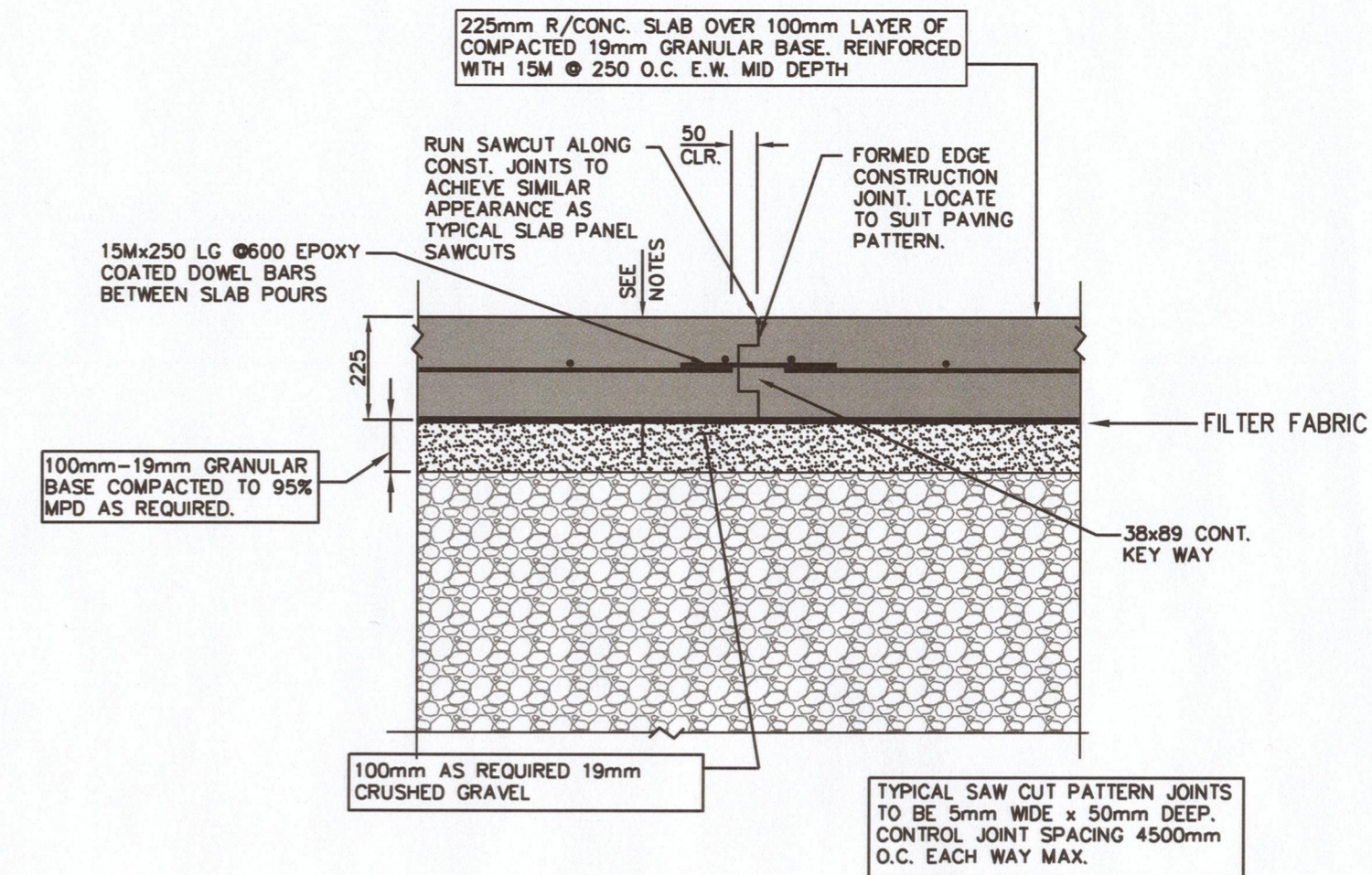
CONCRETE PAVEMENT STRUCTURE

NOTE:
1.) APPROVED SUBGRADE AND ALL BASE AND SUB-BASE MATERIALS TO BE COMPACTED TO 95% MODIFIED PROCTOR DENSITY.



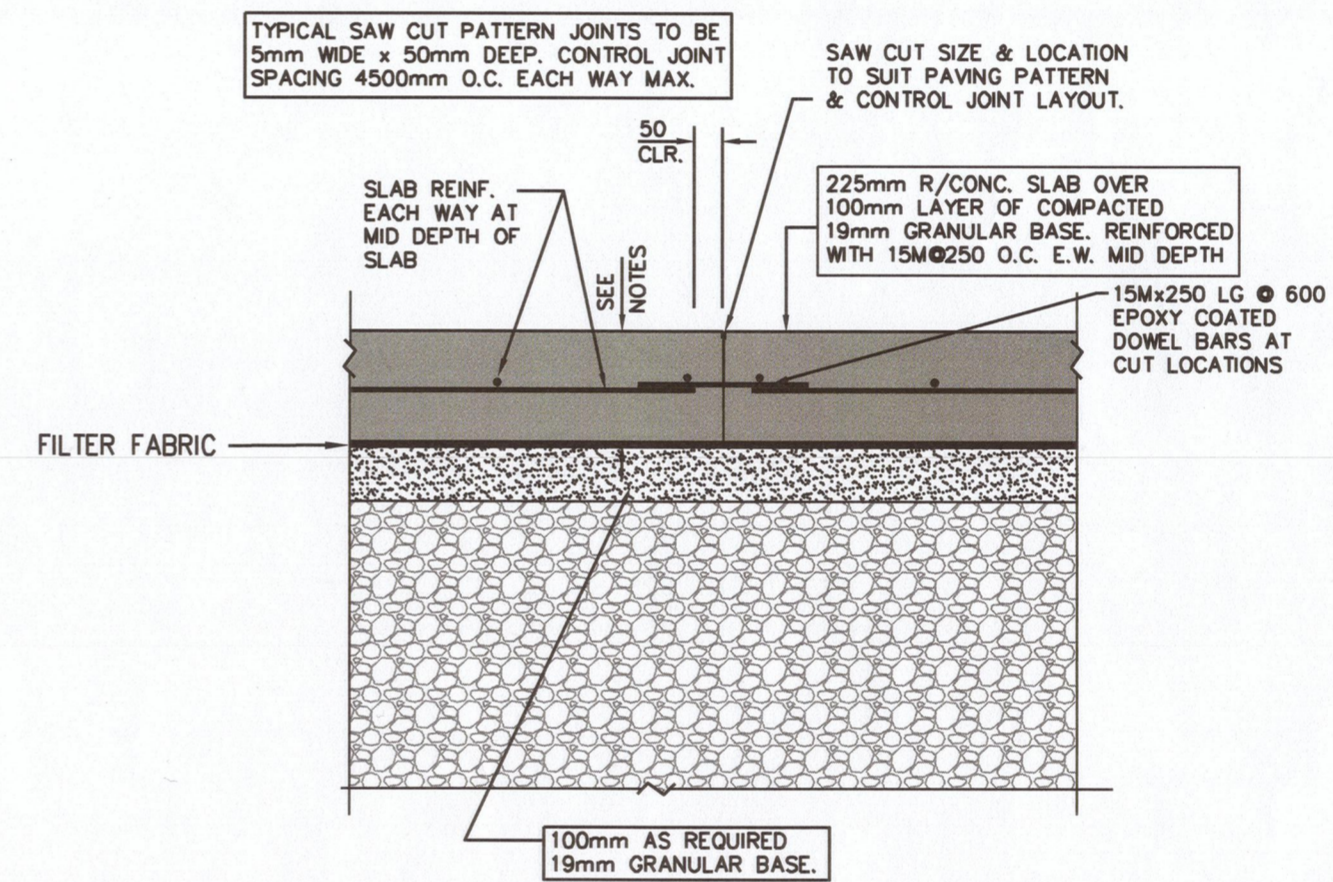
CONCRETE BAND STRUCTURE

N.T.S.



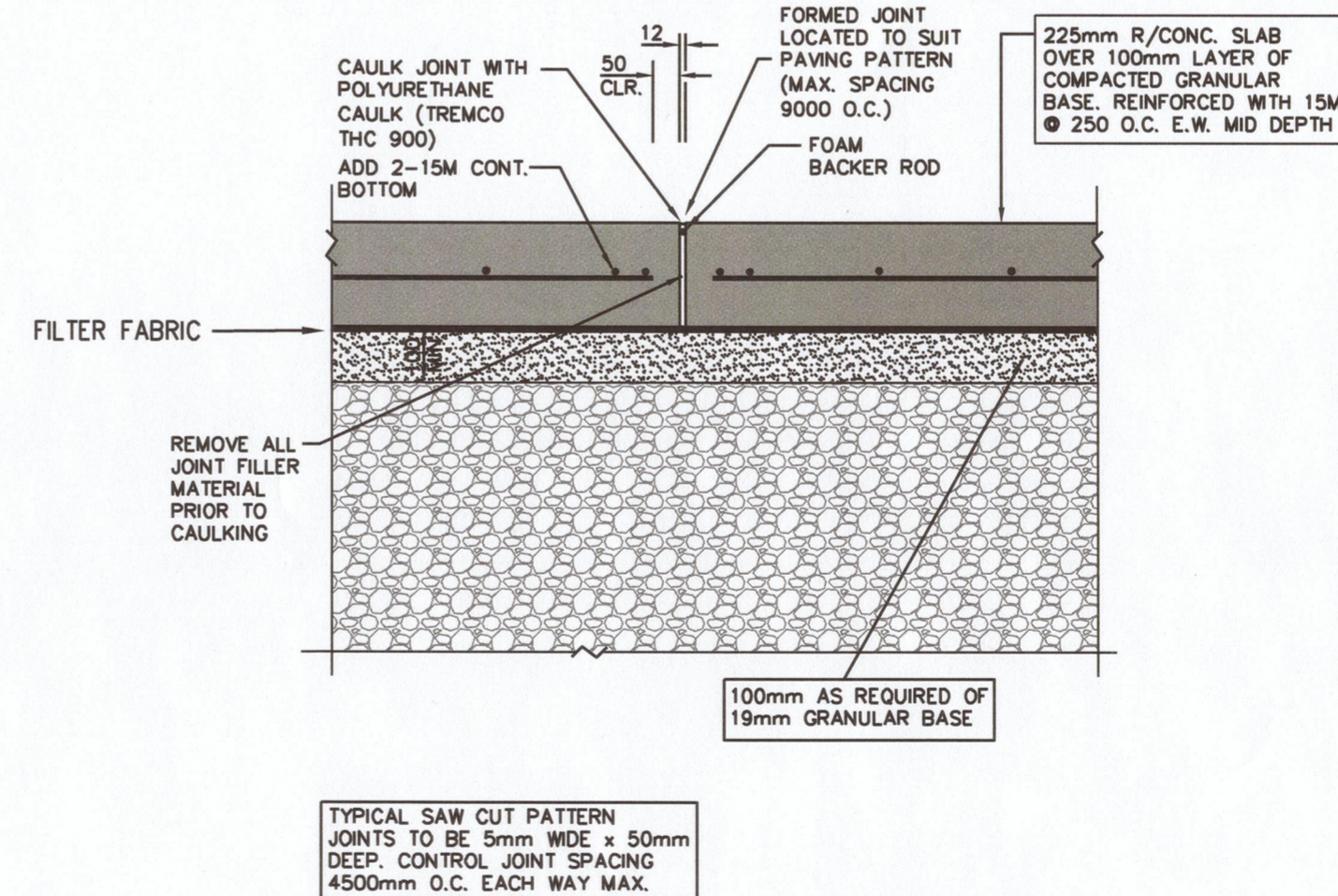
TYPICAL CONSTRUCTION JOINT

TYPICAL EXTERIOR R/C SLAB ON GRADE DRIVEWAY AND PAVING DETAILS N.T.S.



TYPICAL SAWCUT & SAWCUT CONTROL JOINT

TYPICAL EXTERIOR R/C SLAB ON GRADE DRIVEWAY AND PAVING DETAILS N.T.S.

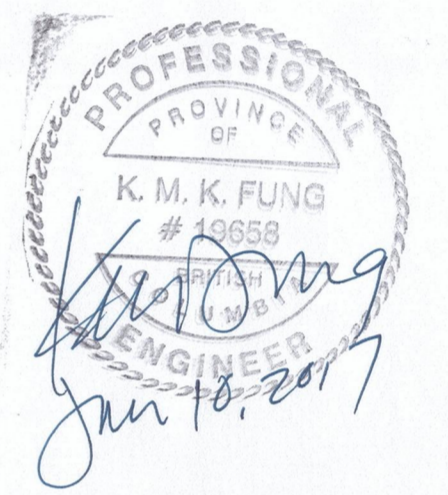


TYPICAL EXPANSION JOINT

TYPICAL EXTERIOR R/C SLAB ON GRADE DRIVEWAY AND PAVING DETAILS N.T.S.

BENCHMARK:

- BM1 MONUMENT
- BM1 LOCATION
- BM1 ELEV
- BM2 MONUMENT
- BM2 LOCATION
- BM2 ELEV



Revision/Revised	Description/Description	Date/Date
5		
4		
3	ISSUED FOR TENDER	18-11-16
2	ISSUED FOR TENDER	24-03-16
1	99% CD REVIEW	02-03-16
0	50% CD REVIEW	04-02-16

Client/client
CANADA BORDER SERVICES AGENCY (CBSA)
2 SUMAS WAY, HUNTINGDON B.C. V2S 8B7

Project title/Titre du projet
ABBOTSFORD-HUNTINGDON PORT OF ENTRY
2 SUMAS WAY, HUNTINGDON, BC
ADDITION & SITE WORKS

Consultant Signature Only
GH
Designed by/Concept par
GH
Drawn by/Dessiné par
KF / 2016-01-26
PWGSC Project Manager/Administrateur de Projets TPSGC

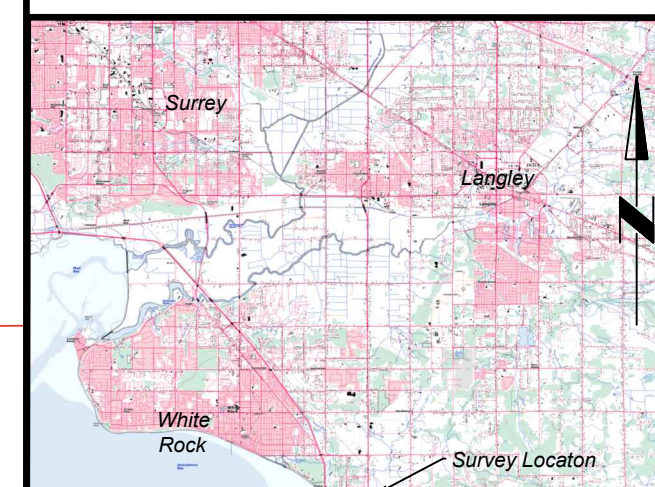
Regional Manager, Architectural and Engineering Services
Gestionnaire régional, Services d'architectural et de génie, TPSGC

Drawing title/Titre du dessin
PACIFIC HIGHWAY AND ABBOTSFORD-HUNTINGDON PORT OF ENTRY REPAVING CONCRETE NOTES & DETAILS

15-0521

Project No./No. du projet	Sheet/Fauille	Revision no./La Révision no.
R078171.001	C004 OF 4	3





revisions

project
**Canadian Border Services Agency
Pacific Crossing
Parking and Traffic Lanes Repaving**

drawing
Topographic Survey Plan

NOTES:
Elevations are Orthometric (CGVD28 GVRD2005) and derived from Target Land Surveying Plan 6609-topo which references control monument 86H1275 Elev = 26.440m

Line work of buildings and roads not in area of survey derived from Target Land Surveying plan 6609-topo and are considered approximate only

drawn C. M. BRYENTON
2015-12-14

approved I. R. ROBERTSON
2015-12-21

project number
R.078171.001

drawing no. SK# 5524.00

This plan was prepared for planning and discussion purposes only. It should not be relied upon as definitive proof of encroachments or the true location of structures, natural boundaries or fill in relation to any property boundary. Any questions to the above should be followed up with an additional in-depth legal field survey.

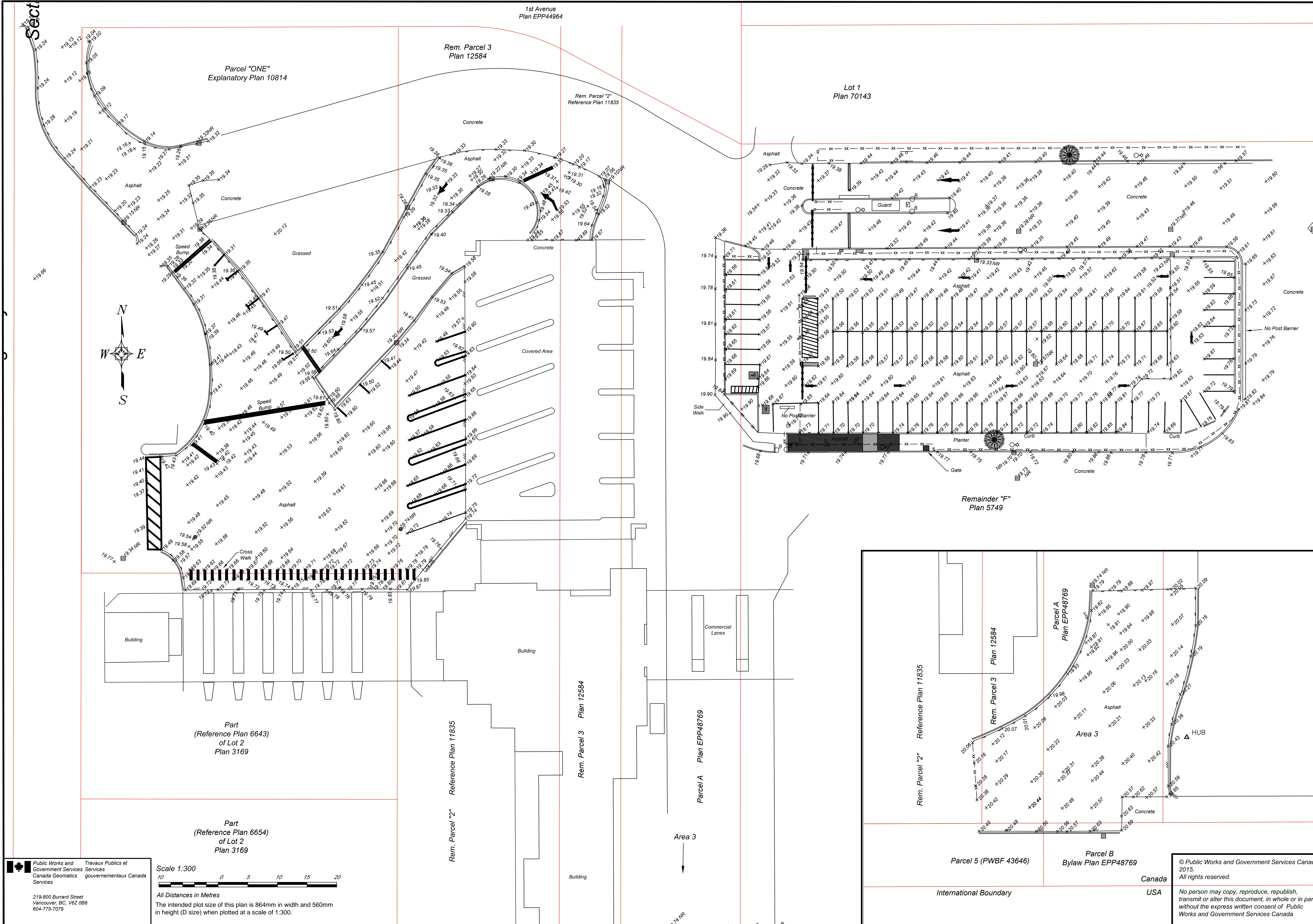
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Date of Survey: December 10 & 15, 2015.
SF#3361.003, FB#041, Pg 25-36

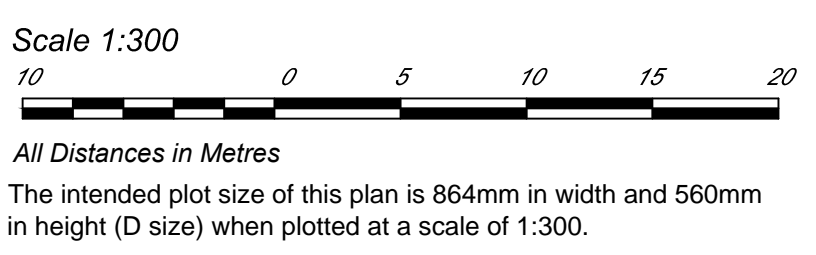
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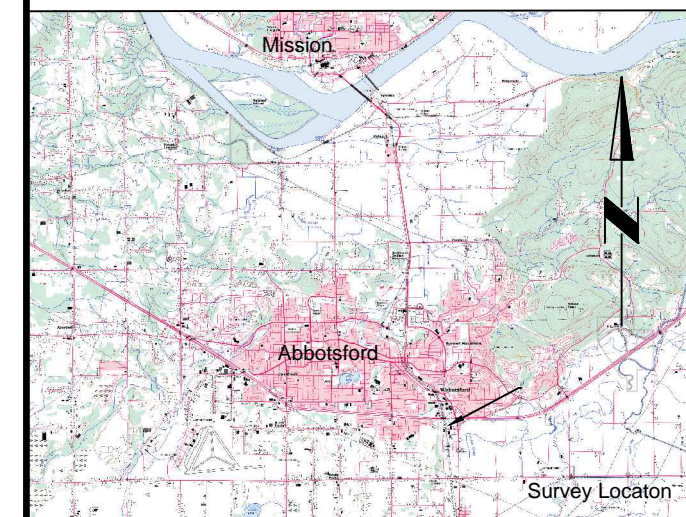
	ELECTRICAL BOX
	WATER VALVE
	TREE
	MANHOLE STORM
	MANHOLE SANITARY
	CATCH BASIN
	DENOTES EDGE OF PAVEMENT
	DENOTES FENCE CHAINLINK
	DENOTES YELLOW PAINT LINE
	DENOTES BUILDING
	DENOTES CONCRETE CURB
	DENOTES CONCRETE
	DENOTES PROPERTY LINES (APPROX LOCATION ONLY)
	DENOTES GATE ARM
	DENOTES VAULT
	DENOTES COMM VAULT
	DENOTES NORTH RIM ELEV
	DENOTES BOLLARD
	DENOTES SIGN
	DENOTES FIRE HYDRANT
	DENOTES LAMP STANDARD

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Public Works and Government Services Canada
Travaux Publics et Services gouvernementaux Canada
219-800 Burrard Street
Vancouver, BC, V6Z 0B8
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revisions	
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project
**Canadian Border Services Agency
Huntington Port of Entry
Repaving**

drawing
Topographic Survey Plan

NOTES:
Elevations are Orthometric (CGVD28 GVRD2005) and derived from Eric Peterson Land Surveying Plan 209-039 which references control monuments 77H6061: Elev = 26.440m, and 77H6097: Elev = 9.843m

Line work of buildings and roads not in area of survey derived from above mentioned plan and are considered approximate only.

drawn C. M. BRYENTON

2015-12-14

approved I. R. ROBERTSON

2015-12-21

project number
R.078926.001

drawing no. SK# 5523.00

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Date of Survey: December 9, 2015.

SF#3182.11, FB#041, Pg 10-24

Legend:

- ELECTRICAL BOX
- WATER VALVE
- TREE
- MANHOLE STORM
- MANHOLE SANITARY
- CATCH BASIN
- DENOTES EDGE OF PAVEMENT
- DENOTES FENCE CHAINLINK
- DENOTES YELLOW PAINT LINE
- DENOTES BUILDING
- DENOTES CONCRETE CURB
- DENOTES CONCRETE
- DENOTES GATE ARM
- DENOTES VAULT
- DENOTES COMM VAULT
- DENOTES NORTH RIM ELEV
- DENOTES LOCK BLOCK
- DENOTES CLEAN OUT
- DENOTES SEWER VALVE
- DENOTES GAS VALVE
- DENOTES BOLLARD
- DENOTES SIGN
- DENOTES FIRE HYDRANT
- DENOTES LAMP STANDARD

