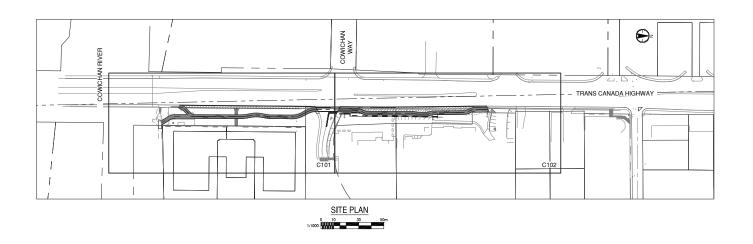
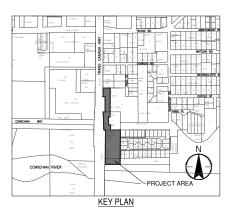


CITY OF DUNCAN TRANS-CANADA HIGHWAY MULTI-USE PATH COWICHAN RIVER TO 140 TCH





DRAWING INDEX					
C000	COVER				
C001	GENERAL NOTES AND LEGEND				
C101	MUP PLAN / PROFILE STATION 0+000 TO 0+140				
C102	MUP PLAN / PROFILE STATION 0+140 TO 0+270				
C103	STORM DRAIN - PLAN PROFILE				
C105	SECTIONS STATION 0+000 TO 0+146				
C106	SECTIONS STATION 0+150 TO 0+255				
C107	SIGNS / PAVEMENT MARKINGS				
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S001	STRUCTURAL - GENERAL NOTES				
S101	STRUCTURAL - SITE PLAN, RETAINING WALL PLAN AND SECTIONS				

DRAWING INDEX



GENERAL NOTES

- ALL WORKS AND MATERIALS TO BE PERFORMED IN ACCORDANCE WITH MMCD PLATINUM EDITION DOCLIMENTS, MINISTRY OF TRANSPORTATION AND INFRASTRUCTURE 2020 STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION (MOTI SSHC), AND PROJECT DOCUMENTS.
- DRAWING CO-ORDINATES BASED ON MONUMENTS

①	93H0981	N	5402497.251m	Е	448930.289m	ELEVATION 10.938m
②	83H9384	N	5402755.217m	Е	448767.072m	ELEVATION 11.533m
ര	77H4338	N	5402881.318m	E	448789.655m	ELEVATION 11.151m

- ALL PAVEMENT MARKINGS TO BE THERMOPLASTIC WITH THE EXCEPTION OF THE FOLLOWING
- 3.1. MULTI USE TRAIL CENTRE LINE TO BE ALKYD PAINT REFLECTORIZED. PARKING STALL LINES TO
- CONTRACTOR TO PROVIDE NOTIFICATION TO CITY OF DUNCAN A MINIMUM OF 2 WEEK PRIOR TO COMMENCING WORK.
- CONTRACTOR TO DISTRIBUTE A PRE-CONSTRUCTION NOTIFICATION LETTER TO ALL AFFECTED RESIDENTS PRIOR TO MOBILIZATION AND COMMENCING WORK. CONTRACTOR TO PROVIDE A COPY OF THE NOTIFICATION LETTER TO THE ENGINEER AND THE CITY OF DUNCAN FOR REVIEW AND APPROVAL PRIOR TO DISTRIBUTION
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING: BC ONE CALL 1-800-474-6886. (*6886) PRIOR TO ANY EXCAVATION.
- ALL PAVEMENT CUTS TO BE SQUARE-CUT
- ALL NECESSARY PERMITS TO BE OBTAINED BY THE CONTRACTOR PRIOR TO COMMENCING
- LOCATIONS OF ALL EXISTING SERVICES, FEATURES AND APPURTENANCES SHOWN ON THE DRAWINGS ARE TO BE CONSIDERED APPROXIMATE ONLY. THE CONTRACTOR SHALL VERIEV ALL LOCATIONS IN THE FIELD AND REPORT ANY DISCREPANCIES TO THE CONSULTABIL.
- ALL EXISTING SERVICES TO BE EXPOSED PRIOR TO CONSTRUCTION.
- ANY DAMAGE OR REPAIR TO EXISTING UTILITIES SHALL BE THE FULL RESPONSIBILITY OF THE CONTRACTOR. CONTRACTOR TO IMMEDIATELY REPORT ANY DAMAGE OR REPAIR TO THE CONTRACT ADMINISTRATOR AND CITY OF DUNCAN.
- REMOVAL OF EXISTING CURB, GUTTER AND SIDEWALK TO BE AT EXISTING CONSTRUCTION JOINTS OR SAW CUT AT LOCATIONS APPROVED BY THE CITY ENGINEER.
- CONTRACTOR SHALL COORDINATE WITH BC HYDRO A MINIMUM OF TWO (2) WEEKS PRIOR TO WORK AROUND HYDRO POLES. AS IDENTIFIED ON THE DRAWINGS.
- 14 ALL SURPLUS MATERIAL SHALL BE REMOVED FROM THE SITE AND PROPERLY DISPOSED OF IN ACCORDANCE WITH ALL APPLICABLE GUIDELINES AND REGULATIONS. AT THE CONTRACTORS FXPENSE
- TRAFFIC CONTROL SHALL BE IN ACCORDANCE WITH THE CURRENT EDITION OF THE MINISTRY OF TRANSPORTATION AND INFRASTRUCTURE "TRAFFIC MANAGEMENT MANUAL FOR WORK ON ROADWAYS (TIME, WORKSAFEBC REGULATIONS PART 18 TRAFFIC CONTROL, AND PROJECT SPECIFICATIONS.
- ALL EXISTING AMENITIES SHALL BE RESTORED TO ORIGINAL OR BETTER CONDITION AND TO THE SATISFACTION OF THE OWNER, AT THE CONTRACTORS EXPENSE.

WATER SERVICE NOTES

- ALL WATER SERVICE PIPES ARE TO BE POLYETHYLENE POTABLE WATER TUBING, 200 MST. CERTIFICATION AS PER MMCD SECTION 33 11 01 CLAUSE 2.5.
- 18. MINIMUM SERVICE PIPE DIAMETER TO BE 19mm.
- 19. 14 GAUGE BLUE TRACER WIRE SHALL BE INSTALLED +/- 50mm ABOVE THE PIPE WITHIN THE BEDDING
- 20 MINIMUM DEPTH OF COVER TO BE 0.7m
- 21. HORIZONTAL AND VERTICAL SEPARATION TO BE IN ACCORDANCE WITH VIHA REQUIREMENTS.
- FLUSHING TO BE COMPLETED IN ACCRODANCE WITH MMCD SECTION 33 11 01 AND AWWA
- CONTRACTOR SHALL NOT OPERATE ANY EXISTING VALVE (GATE OR OTHER) ON ANY LIVE WATER CONTINUED IN STATEM, CONTRACTOR SHALL PROVIDE THE CITY OF DUNCAN A MINIMUM 2 WEEK NOTICE ASSOCIATED WITH ANY LIVE SYSTEM APPURTENANCES.

STORM SYSTEM NOTES

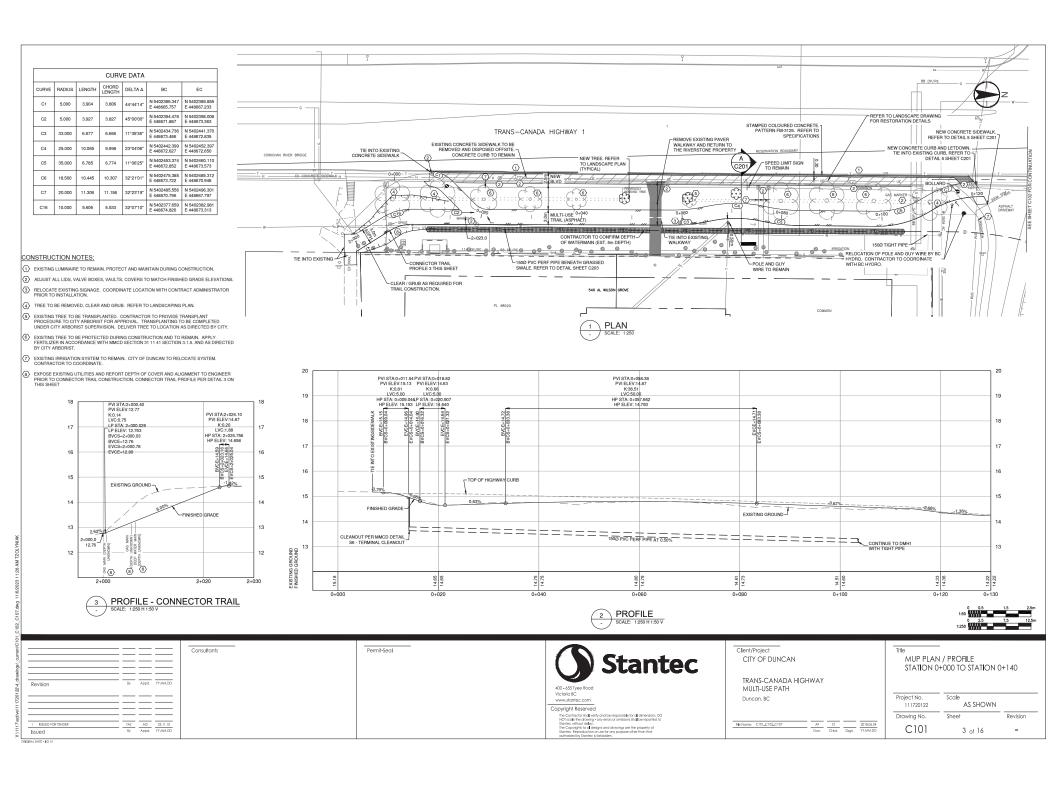
- 24. ALL STORM MAIN SHALL BE PVC SDR9S CERTIFIED TO CSA B182.2 AND INCLUDE INTEGRAL BELL AND SPIGOT ENDS, FORMED GROOVE, AND ELECTROMETRIC GASKET. STORM SERVICES TO BE PVC SDR96, GATCHBASIN AND LAWRESIN LEADS TO BE MINIMUM 1500MD PVC SDR9S UNLESS OTHERWISE NOTED. SERVICES TO BE MAINFACTURED TO ASTM D3034 AND CERTIFIED TO CAS B182. UNLESS OTHERWISE NOTED.
- 25. ALL BENDS TO BE LONG RADIUS SWEEPS UNLESS APPROVED OTHERWISE BY CITY OF DUNCAN.

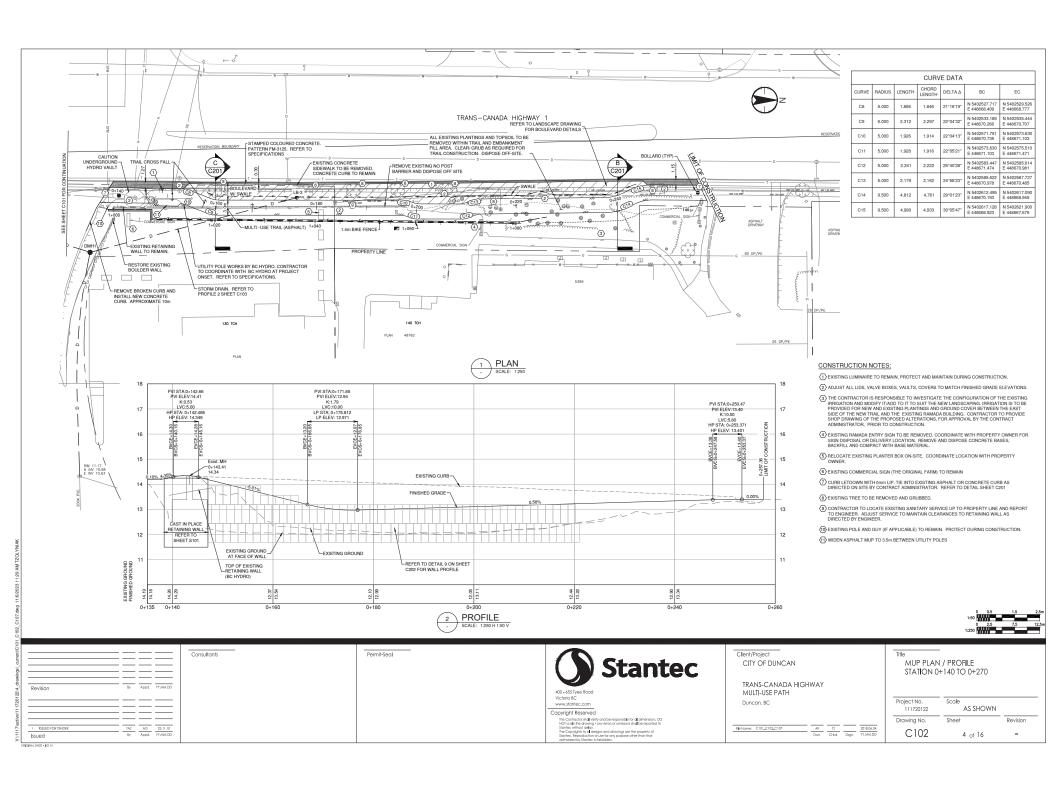
EROSION AND SEDIMENT CONTROL NOTES

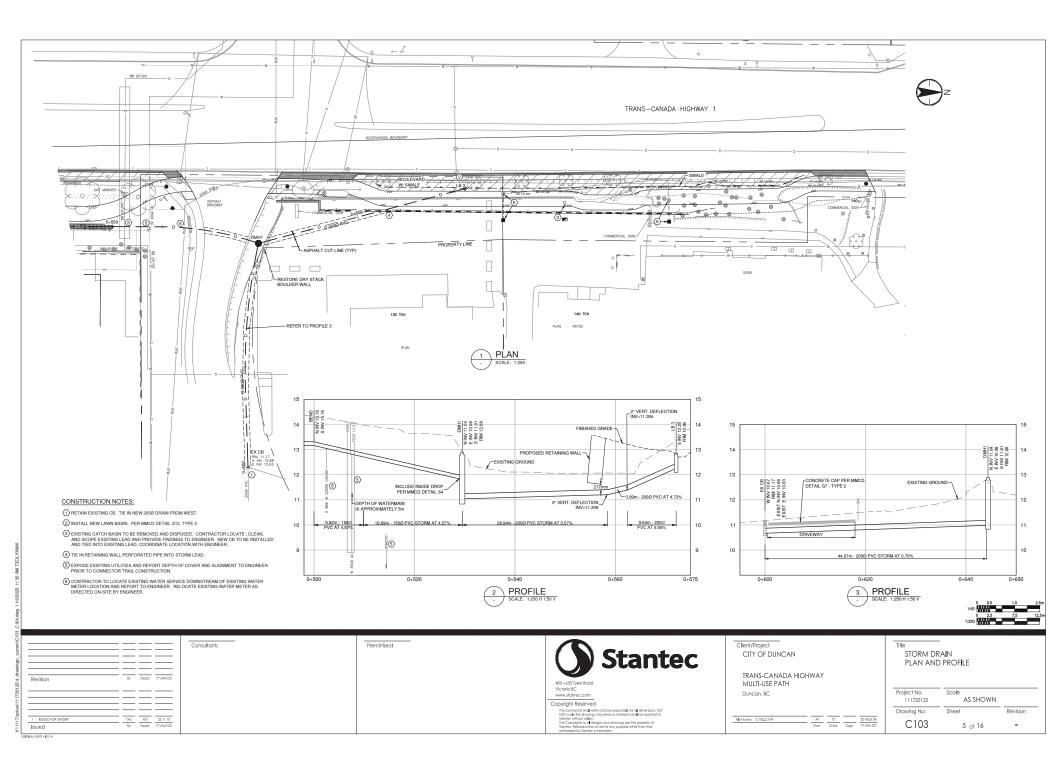
- CONTRACTOR IS RESPONSIBLE TO PROVIDE EROSION AND SEDMENT CONTROL (ESC) MEASURES AND SEQUENCE THE WORK AS REQUIRED TO PROVIDE CONSTRUCTION POLLUTION PREVENTION FOR BOTH WATER AND AIRBORNE SEDMENT AND DUST EFFECTIVELY PREVENTING IT FROM LEAVING THE SITE ESC WORKS AND PRACTICES TO BE IN ACCORDANCE WITH ALL APPLICABLE MANIOPAL. FEDERAL, AND PROVINCIAL AND DEPARTMENT OF FISHERIES AND OCEANS REQUIREMENTS WHICHEVER IS MOST STRINGENT. CONTRACTOR TO EMPLOY ESC BEST MANAGEMENT PRACTICES WHICHEVER IS NOT STANDARD OF STANDARD ON S
- CONTRACTOR IS RESPONSIBLE FOR AND SHALL COMPLY WITH ALL APPLICABLE MINISTRY OF WATER LAND AND AIR PROTECTION AND DEPARTMENT OF FISHERIES & OCEANS CANADA REQUIREMENTS AT ALL TIMES DURING CONSTRUCTION.
- TO PROTECT THE SOIL, WATER AND VEGETATIVE RESOURCES OF THE AREA, ONLY THOSE AREAS NECESSARY TO CONSTRUCT THE WORKS CONTAINED IN THE ENGINEERING DRAWINGS ARE TO BE

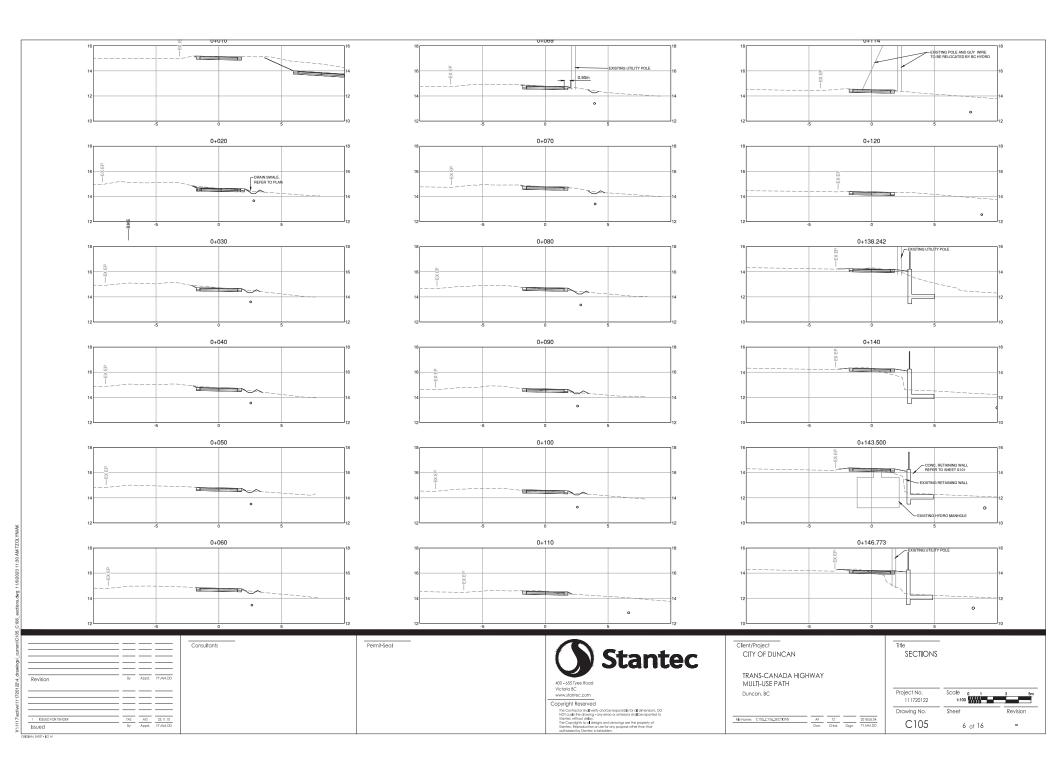
- THE CONTRACTOR SHALL ENSURE THAT ALL WORKS BE UNDERTAKEN AND COMPLETED BY THE CONTRACTOR IN SUCH A MANNER AS TO PREVENT THE RELEASE OF SEDIMENT LADEN WATER INTO ANY BODY OF WATER, WATERCOURSE OR STORM SEWER.
- WHILE SITE CONSTRUCTION IS ONGOING, THE CONTRACTOR IS TO BE RESPONSIBLE FOR ENSURING SEDIMENT CONTROL ACILITIES ARE MAINTAINED AND WORKING ADEQUATELY TO CONTROL ALL DISCHARGES FROM THE SITE. ALL FACILITIES SHALL BE INSPECTED BY THE CONTRACTOR ON A DAILY BASIS TO ENSURE PROPER OPERATION UNTIL REMOVAL.
- 31. OFFSITE CONTROLS
 - 31.1. FILTER FABRIC TO BE INSTALLED ON ROADWAY CATCHBASINS ADJACENT TO WORK SITE.
 - 31.2. ADJACENT ROADWAYS AFFECTED BY CONSTRUCTION PRACTICES ARE TO BE SWEPT DAILY TO REMOVE DIRT/DUST. DO NOT SWEEP OR WASH DIRT/MUD INTO CATCHBASINS OR WATER
 - 31.3. REFER TO ADDITIONAL REQUIREMENTS IN SECTION 165 THE '2016 STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION' BY THE MINISTRY OF TRANSPORTATION AND INFRASTRUCTURE.
- THE CITY OF DUNCAN AND STANTEC ASSUME NO RESPONSIBILITY FOR DAMAGES RESULTING FROM IMPROPER EROSION OR SEDIMENT TRANSFER FROM THE CONSTRUCTION SITE.

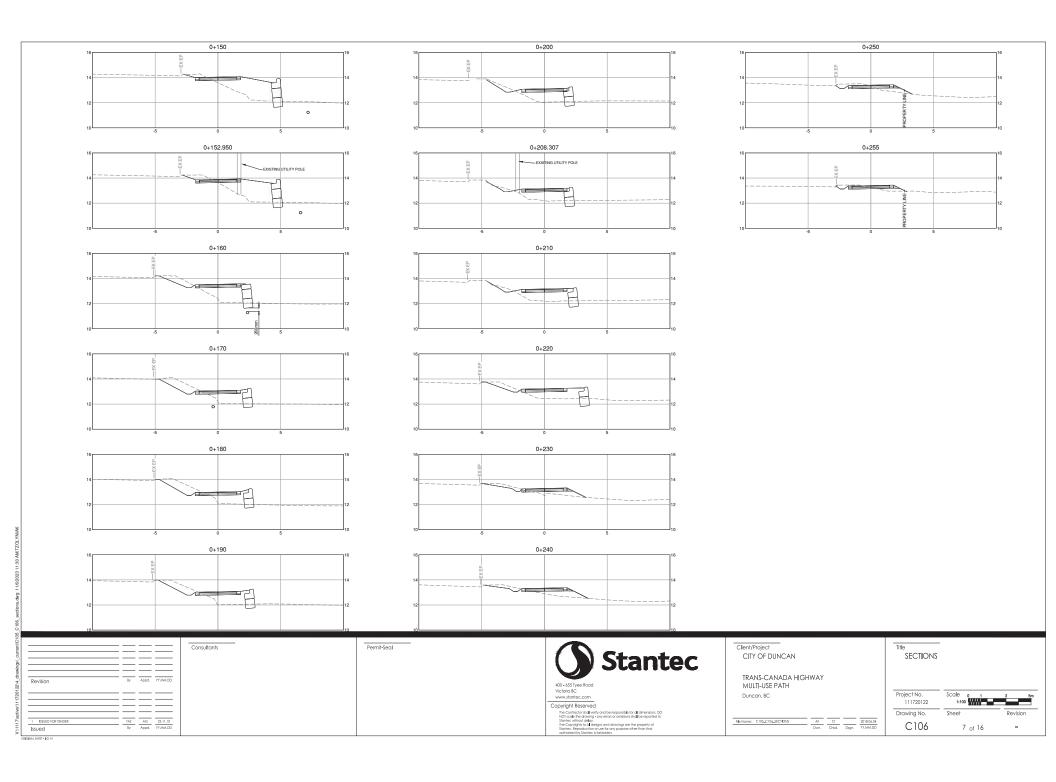
tevision	By Appd. YY,MA,DO	Consultants	Permit-Sect	Stantec Stantec	Client/Project CITY OF DUNCAN TRANS-CANADA HIGHWAY MULTI-USE PATH	Title GENERAL AND LEGE		
				Victoria BC www.stantec.com Copyright Reserved	Duncan, BC	Project No. 111720122	Scale NOT TO SCA	ALE
ISSUED FOR TENDER	TAZ AG 23.11.10 By Appd, YYAMA,DD			The Contractor shall verify and be responsible for all dimensions. DO NOT scale the drawing- any error or amissions shall be reported to strander without delay. The Copyrights to all designs and drawings are the property of	File Name: C000_C001	Drawing No.	Sheet	Revision

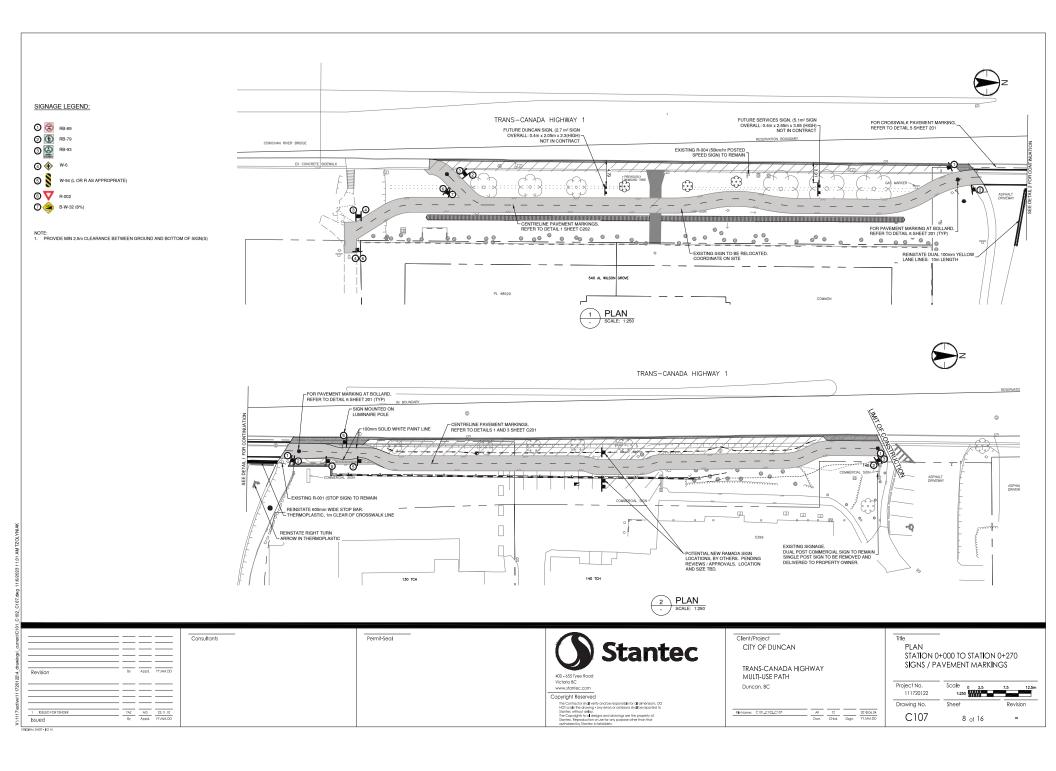


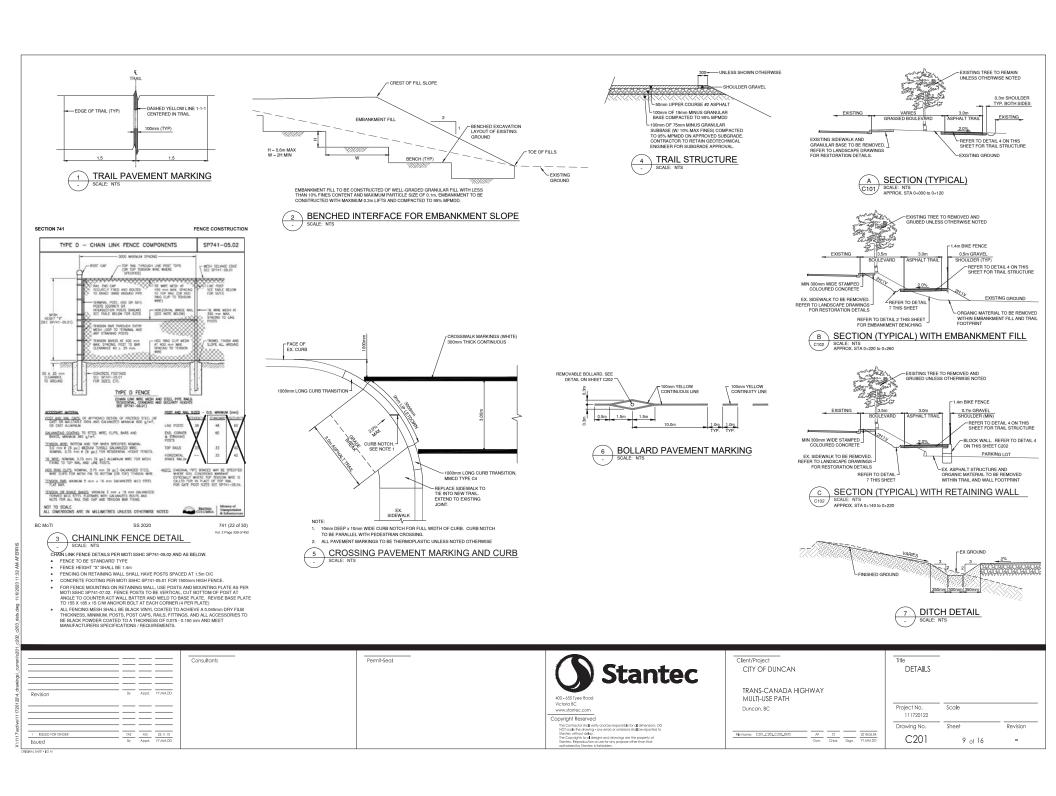


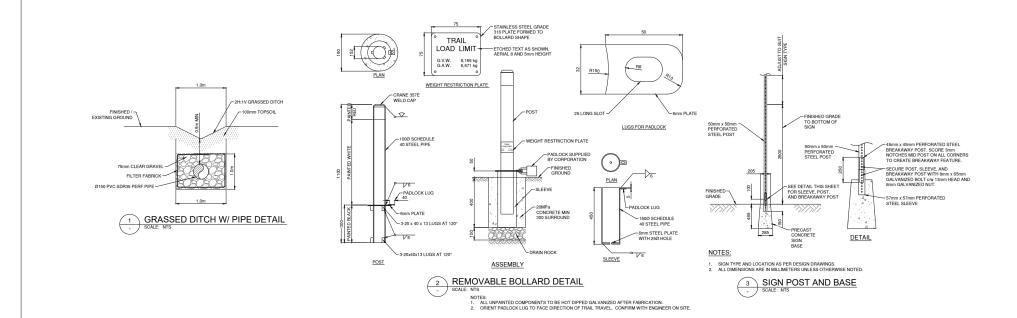


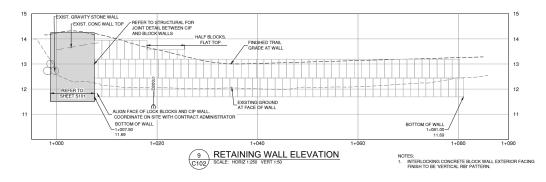


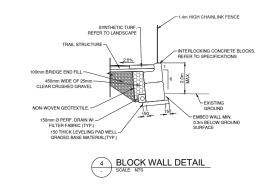








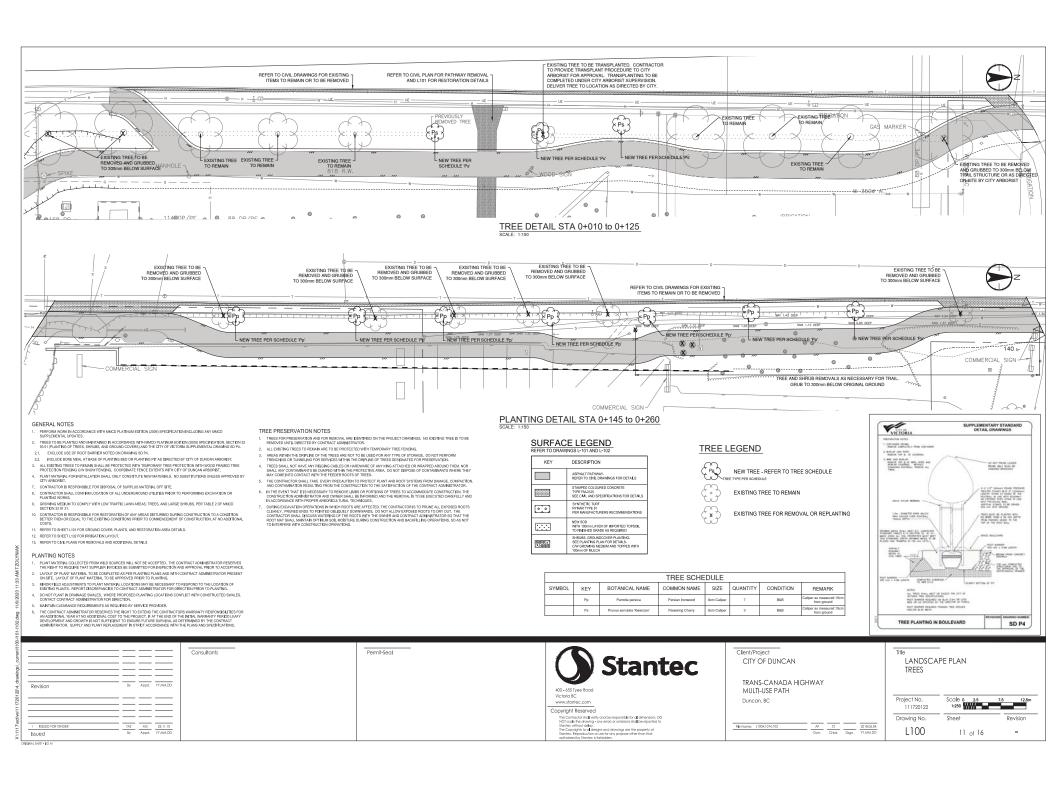


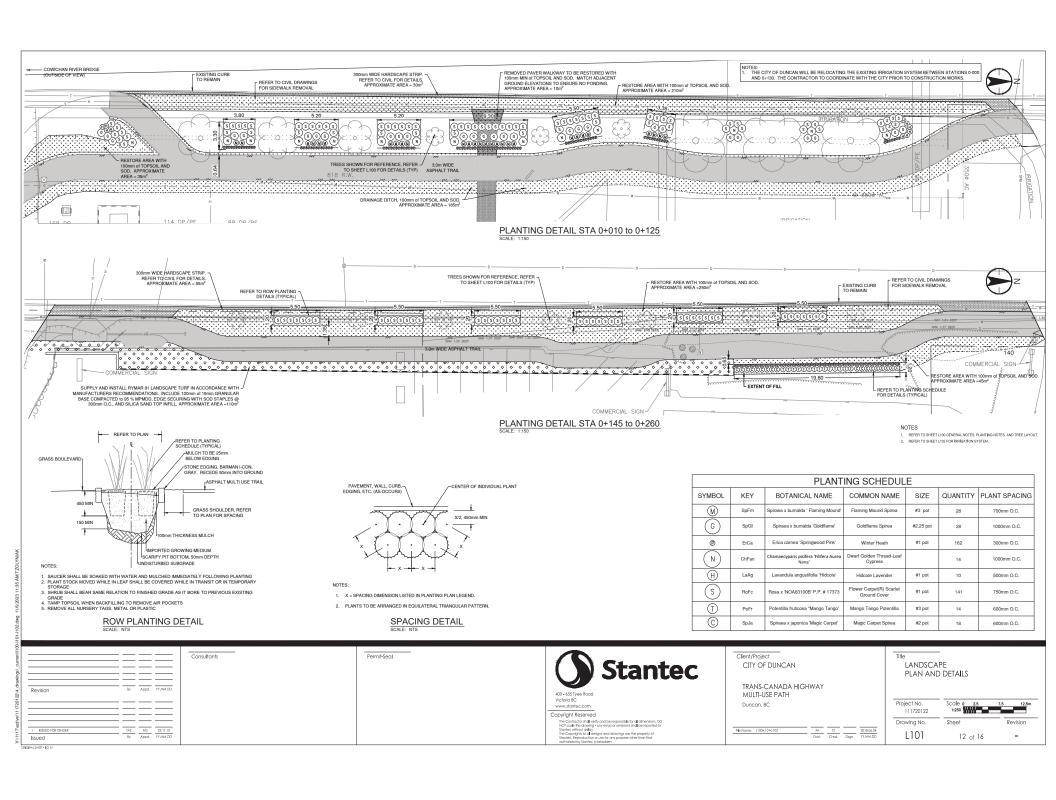


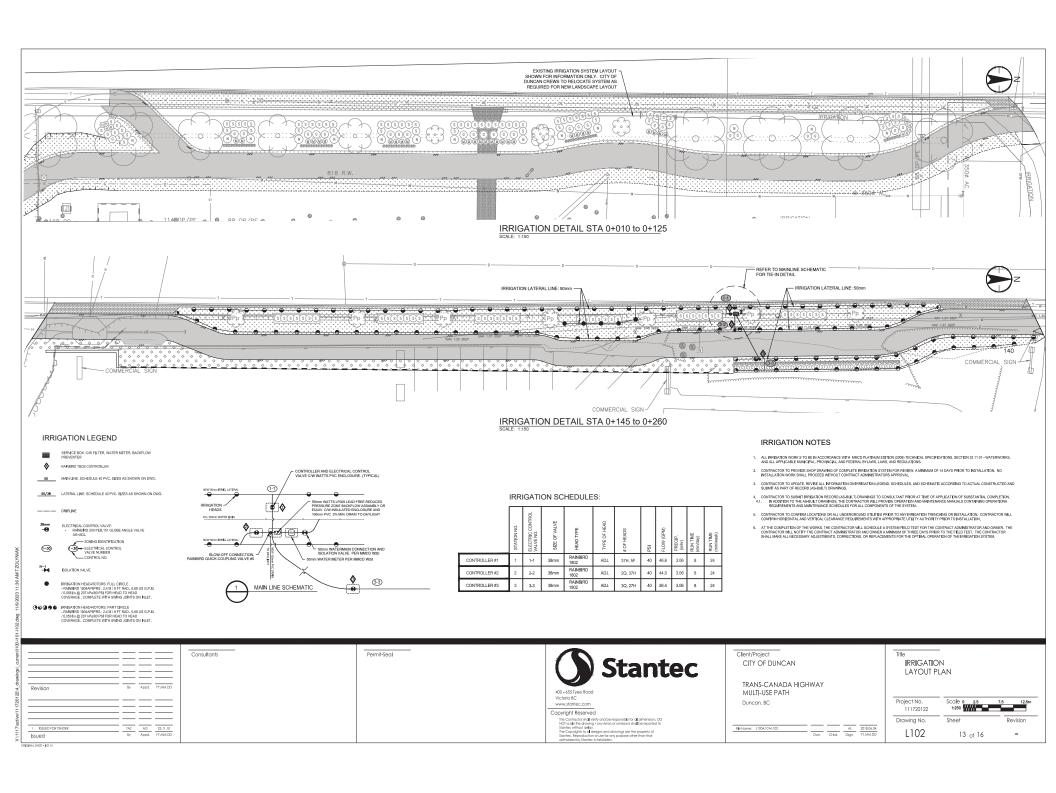
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ORIGINAL SHEET - BC







STRUCTURAL DESIGN NOTES

GENERAL

- ALL CODES REFERENCED ARE TO BE THE LATEST VERSION AT THE DATE OF ISSUE.
- DESIGN IS BASED ON THE BRITISH COLUMBIA BUILDING CODE 2018.
- READ THESE DESIGN NOTES IN CONJUNCTION WITH THE CONTRACT SPECIFICATIONS AND ALL OTHER CONTRACT DOCUMENTS.
- 4 OBTAIN ENGINEER'S APPROVAL BEFORE CUTTING, BORING, OR SLEEVING LOAD-BEARING MEMBERS UNLESS NOTED OTHERWISE.

- UNLESS NOTED OTHERWISE.

 THE STRUCTURE DRAWNING SARE FOR THE COMPLETED PROJECT. STABILITY OF THE NEW STRUCTURE DIRBNIC CONSTRUCTION REMAINS THE RESPONSIBILITY OF THE CONTRACTOR.

 REFER TO COMIL MECHANICAL, AND ELECTROLAL DRAWNINGS FOR SMALL OPERBINGS, SLEEVES, RECESSES, DEPRESSORISS, SUBES, TRINCHES CURREN, MUDICELEPINE PORS, EQUIPMENT BASES, AND THE CONTRACTOR OF THE STRUCTURE, DEARWINGS ARE FOR PERSECURING. AND COMPLETE THE STRUCTURE, DAMINICS ARE FOR PERSECURING THE COORDINATE ALL OPENING. LOCATIONS AND DIMESSORIS WITH THE APPROPRIATE CONSULTANT AND THE SUB-CONTRACTOR OF PROVIDE ORDINATION OF THE STRUCTURE, DAWNINGS ARE FOR PERSECURING THE SUB-CONTRACTOR OF PROVIDE ORDINATION OF THE STRUCTURE, DEMENSIONS WITH THE APPROPRIATE CONSULTANT AND THE SUB-CONTRACTOR OF PROVIDE ORDINATION OF THE STRUCTURE DAWNINGS ARE FOR PERSECURING TO THE SUB-CONTRACTOR OF THE STRUCTURE ORDINATION ORDINATION ORDINATION ORDINATION ORDINATION ORDINATION ORDINATION ORDINATION ORDINATION ORDI

- 10 NOTIFY THE ENGINEER A MINIMUM OF 48 HOURS PRIOR TO ANY REQUIRED SITE REVIEWS.

EXISTING STRUCTURES

1 NOTIFY ENGINEER OF ANY STRUCTURES OR SERVICES NOT SHOWN ON THE STRUCTURAL DRAWINGS.

DESIGN LOADS

- DEAD LOAD: STRUCTURAL SELF-WEIGHT
 SOIL SEISMIC LOADING DESIGNED FOR A PGA = 0.513 FROM THE CITY OF DUNCAN, FROM DIVISION B APPENDIX C OF THE 2018 BRITISH COLUMBIA BUILDING CODE

DELEGATED DESIGN

- PORTIONS OF THE DETAILED DESIGN ARE DELEGATED TO THE CONTRACTOR. RETAIN A PROFESSIONAL ENGINEER REGISTERED IN THE PROVINCE OF BRITISH COLUMBA TO COMPLETE THE DESIGN. 2 SUBMIT SHOP DRAWINGS FOR COMPONENTS REQUIRING DELEGATED DESIGN UNDER THE SEAL AND SIGNATURE OF THE ENGINEER RESPONSIBLE FOR THE DESIGN.
- 3. THE FOLLOWING COMPONENTS REQUIRE DELEGATED DESIGN.
- 1 CONCRETE MIX DESIGN
- 2 DESIGN AND ANCHORAGE OF CHAIN LINK FENCE.
- 1 THE ENGINEER RESPONSIBLE FOR THE DESIGN IS ALSO RESPONSIBLE FOR REVIEW OF FABRICATION AND INSTALLATION OF THE COMPONENTS. UPON COMPLETION OF THE WORK, PROVIDE SCHEDULE S-8's AND S-CS TO THE ENGINEER OF RECORD.
- 5 REFER TO SPECIFICATIONS FOR FURTHER REQUIREMENTS.

FOUNDATION AND GEOTECHNICAL NOTES

- BEAR ALL CONCRETE ON UNDISTURBED SOIL OR COMPACTED ENGINEERED FILL. REMOVE ALL ORGANIC MATERIAL FROM THE EXTERIOR SLAB AREA.
- REMOVE ALL LOOSE OR SATURATED MATERIAL AND GROUNDWATER FROM THE BASE OF FOOTING EXCAVATIONS BY APPROVED METHODS PRIOR TO PLACING FOUNDATIONS.
- PROTECT EXCAVATIONS FOR FOOTINGS FROM RAIN, SNOW, FREEZING TEMPERATURES, STANDING WATER, LOSS OF MOISTURE AND DEGRADATION BY APPROVED METHODS.
- WATER, COSS OF INSIDERAND EXPONENTIAL PREPARATION OF PREPARATION EXCIPIENT AND THE CONTRACTOR IS RESPONSIBLE TO RETAIN AS COTECHNICAL ENGINEER TO VERIFY THAT THE MATIVE FILL BELOW THE RETAINING WALL HAS A BEARING CAPACITY OF SLS 75 MPS AND ULS 150 MPS. THE CONTRACTOR IS TO MOTIFY THE CONSULTANT IF THIS IS NOT CACHEVABLE AND A STRUCTURAL FILL OR OTHER GROUND IMPROVEMENTS ARE TO BE INSTALLED TO SUPPORT THE WALL.
- GEOTECHNICAL TESTING AGENCY TO BE APPROVED BY AND RESPONSIBLE TO THE ENGINEER AND PAID
- 7 UNLESS OTHERWISE SHOWN ON PLAN, FOUNDATION ELEMENTS ARE TO BE CENTERED UNDER WALLS, GRADE BEAMS, AND COLUMNS.
- 8 PROVIDE DOWELS FROM FOOTINGS TO MATCH ALL VERTICAL COLUMN AND WALL REINFORCEMENT OR AS NOTED ON THE DRAWINGS.

CAST-IN-PLACE REINFORCED CONCRETE

- CONCRETE MATERIALS, QUALITY, MIXING, PLACING, FORMWORK AND OTHER CONSTRUCTION PRACTICES TO CONFORM TO CSA-A23.1.
- 2 SUPPLY CONTROLLED CONCRETE IN ACCORDANCE WITH CSA-A23.1 WITH PROPERTIES NOTED IN CONTROLLED CONCRETE TABLE
- 3 MAXIMUM FLY ASH CONTENT NOT TO EXCEED 25% OF THE TOTAL CEMENTITIOUS MATERIAL.
- NOTIFY CONSULTANT 48 HOURS PRIOR TO CONCRETE POURS TO ALLOW FOR REVIEW OF REINFORCEMENT
- 5 DO NOT USE ADMIXTURES CONTAINING CALCIUM CHLORIDE.
- 6 FIELD AND LABORATORY TESTING OF CONCRETE TO BE COMPLETED BY A THIRD PARTY TESTING AND INSPECTION ACENCY APPROVED BY AND RESPONSIBLE TO THE RIGHEER. TESTING AGENCY SHALL BE CERTIFIED TO CSA AZBZ. ONE SET OF 3 CYLINDERS SHALL BE HADE FOR EACH DAY'S POUR. COPIES OF TEST RESULTS SHALL BE SENT TO THE ENGINEER AND CONTRACTOR CONTRACTOR SHALL BY FOR TESTS.
- TEST RESULTS SMALL BE SENT TO THE ENCORER AND CONTRACTOR. CONTRACTOR. CONTRACTOR.

 COLOW MATHER REQUIREMENTS FOR PROVINCE CONTRETA ESTERIE DET CONTRACTOR. SMALL PORT FOR IT.

 7.4.2 MIST SEE MET. CONTRACTOR SMALL DESIGNE THAT ALL PRECAUTIONS ARE TAKEN TO

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 7.4.2 MIST SEE MET. OF A SMALL PROVINCE THAT ALL PRECAUTIONS ARE TAKEN THE

 1.4.3 MIST SEE CONTRACTOR SMALL PROVINCE THAT ALL PRECAUTIONS AND THE TOP CONTRACTOR.

 7.4.3 MIST SEE MET. SMALL PROVINCE THAT ALL PR
- NO MINITED AND THE REQUIREMENTS FOR PORING CONCERTE AS DEFINED BY CANCSAA23.1, CLAUSE 7.4.18.1 MUST BE WET WHEN THERE IS A PROBABILITY OF THE TEMPERATURE RISING ABOVE 27°C, ADDITIONAL CONCRETE CHURDER OF TOTAL SHALL BE MODE. A MINIMAM OF 2.7.2 BDY SAMPLES BE LEFT ON SITE FOR 28 DAYS MINIMAM OF STORED UNDER SMILAR TEMPERATURE AND HUMBITY CONDITIONS AS THE HEP-ACCE CONCRETE.

Consultants

CONCRETE REINFORCEMENT

- REINFORCEMENT STEEL TO CONFORM TO CSA-G30.18 GRADE 400.
- 2 DO NOT WELD REINFORCEMENT UNLESS APPROVED IN WRITING BY THE ENGINEER. REINFORCEMENT TO BE WELDED TO CONFORM TO CSA-G30.18, GRADE 400W. WELDING ONLY PERMITTED BY AN ORGANIZATION CERTIFIED TO CSA-W186.
- NOTIFY THE ENGINEER PRIOR TO CONCRETE PLACEMENT TO ALLOW FOR REVIEW OF REINFORCING
- 3. NOTIFY THE ENCREER PRIOR TO CONCRETE PLACEMENT TO ALLOW FOR REVIEW OR FREINFORCE. REVIEW OR FREINFORCE ARE REVIEW OR CEREBON MOTED WITH THIS TO HOW AS A STANDARD HOOK AT ONE THE NO. LENGTH OF BAR INDICATED IS EXCLUSIVE OF HOOK LENGTH. OR HOW AS THE TO LEAR CONCRETE COVER TO REINFORCEMENT ARE FER TO CLEAR CONCRETE COVER TO REINFORCEMENT ARE.
 STANDARDED HOOK LENGTHS FOR REINFORCING. REFER TO STANDARD END HOOKS TABLE.
- REINFORCEMENT SPLICES REFER TO REINFORCEMENT SPLICES TABLE.
- 7.1 WHERE SPLICES ARE INDICATED ON THE DRAWINGS, SUCH DIMENSIONS SHALL APPLY. 7.2 WHERE THE DRAWINGS INDICATE TENSION OR COMPRESSION SPLICES, IT SHALL BE AS INDICATED
- 7.2 WHEER DROWNESS MORCHE TERRORIO OR COUNTRESSORS SPLICES, IT SHALL BE AS MORCHE IN REINFORCEMENT SPLICES TABLE: BE BROADED ON THE SECOND SPLICES, IT SHALL BE AS MORCHE 7.3 WHEER BO SPLICE OR SPLICE IS BROADED ON THE SECOND SPLICE. SPLICE EXCEPT FOR COLUMNS WHICH SHALL BE A COMPRESSORS SPLICE. EMBERGMENT OF DOWLES: HEREFOR OR REPORTED SPLICES TRAILE. BY WHEER EMBERGMENT IS DIMENSORBED ON THE DROWNINGS, SUCH DIMENSORS SHALL APPLY.
- 8.2 WHERE THE DRAWINGS INDICATE TENSION OR COMPRESSION EMBEDMENT. IT SHALL BE AS NOTED IN THE REINFORCEMENT SPLICES TABLE.
- 8.3 WHERE NO EMBEDMENT OR EMBEDMENT TYPE IS INDICATED ON THESE DRAWINGS, IT SHALL BE A TENSION EMBEDMENT EXCEPT FOR COLUMNS WHICH SHALL BE A COMPRESSION EMBEDMENT.
- OPENINGS IN WALLS AND SLABS PROVIDE TWO 15M BARS EACH SIDE, ONE EACH FACE, EXTENDING 600mm PAST THE OPENINGS, PLUS TWO 15M DIAGONAL BARS AT EACH CORNER, EACH FACE 1200mm LONG LINE SS NOTED OTHERWISE
- 10. DO NOT CLIT REINFORCEMENT AT OPENINGS WHERE IT CAN BE SPREAD CONTINUOUS AROUND OPENING 11 ALL REINFORCEMENT TO BE SUPPORTED AT 900mm MAXIMUM SPACING

CONCRETE FORMWORK

DESIGN, FABRICATION, ERECTION, AND OTHER CONSTRUCTION PRACTICES TO CONFORM TO CANICSA-SZ69.3.

CONCRETE FINISHES

- WIBBATE AND SCREED ALL CONCRETE SLABS INCLUDING SLABS ON GRADE AND TOPPINGS. FLOAT SURFACE WITH WOOD OR ME TAL FLOATS. TROWEL CRACK CONTROL. JOINTS AS INDICATED DW FLAM OR AT JAN. ANY X AM GRID. STEEP OWNER TROWEL TO SMO
- ALL CONCRETE WALLS WHICH ARE EXPOSED SHALL BE FORMED WITH MEDIUM DENSITY OVERLAID PLYWOOD FORMS. FORM THIS SHALL BE SHAP THES WITH ZOWN DUMBLETER BY ZOWN DEEP CONES, GRIND OFF ALL HIGH SPOTS FROM THE FINISHED SURFACES, SACK NOW TO A SMOOTH SURFACE READY FOR PAINT FINISH.
- 3 PROVIDE 20MM CHAMFER TO ALL EXPOSED CONCRETE CORNERS

STRUCTURAL STEEL

- DESIGN, FABRICATION, ERECTION, AND OTHER CONSTRUCTION PRACTICES TO CONFORM TO CSA-S16 AND THE CISC CODE OF STANDARD PRACTICE FOR STRUCTURAL STEEL.
- 2 STEEL TO BE FABRICATED AND ERECTED BY A SHOP CERTIFIED BY THE CANADIAN WELDING BUREAU TO THE REQUIREMENTS OF CSA-W47.1. DIVISION 1 OR 2.1 ONLY.
- SUBMIT SHOP DRAWINGS SHOWING ALL STRUCTURAL STEEL MEMBERS FOR REVIEW PRIOR TO FABRICATION. WELDING TO CONFORM TO CSA-W59.
- PRINCIPATION WILLIAMS DI CUMPURIO I DESAMBRIA.

 WELDING TO REPROCREMENT SECUENT BY A SHOP CERTIFIED TO CSA-WIB6 WITH REINFORCEMENT CONFORMING TO CSA-GSIB I, GRADE 400M.

 SHOP GALVANION TO CONFORM TO CONFESS AFIG.

 HARDWARE) TO BE HOT DIPPED GALVANIZED.

- 6 ALL EXPOSED WELDS TO BE CONTINUOUS. GRIND ALL EXPOSED WELDS SMOOTH, INCLUDING PAINTED STEEL SUPPLY STEEL WITH PROPERTIES NOTED IN STEEL GRADES TABLE.
- 8 PROVIDED A MINIMUM OF 2 BOLTS IN BOLTED CONNECTIONS. 9 ALL BOLTED CONNECTIONS TO USE SNUG-TIGHTENED HIGH-STRENGTH BOLTS UNLESS OTHERWISE
- NOTED ON THE DRAWINGS.
- 10 DO NOT SPLICE MATERIAL WITHOUT THE WRITTEN APPROVAL OF THE ENGINEER. WHERE GRANTED, A COMPLETE NON-DESTRUCTIVE EXAMINATION WILL BE MANDATORY AND PAID FOR BY THE SUB-CONTRACTOR.
- 11 ALL GROUT UNDER BEARING PLATES AND BASE PLATES SHALL BE NON-METALLIC, NON-SHRINK TYPE WITH MINIMULU 20 DAY COMPRESSIVE STRENGTH OF 50 MPs. INSTALLED IN ACCORDANCE WITH THE SPECIFICATION AND MANUFACTURERS RECOMMENDATIONS. PROVIDE GROUT WEEP HOLES IN COLUMN BASE PLATES WHERE SHOWN.

CLEAR CONCRETE COVER TO REINFORCEMENT						
TO BE READ IN CONJUNCTION WITH CONCRETE REINFORCEMENT DESIGN NOTES						
EXPOSURE CLASS						
N	F-1, F-2, S-1, S-2, S-3	C-XL, C-1, C-2, C-3, A-1, A-2, A-3				
-	40 mm	60 mm				
	75 mm	75 mm				
	WITH CON	WITH CONCRETE REINFORCEMEN EXPOSURE N F-1, F-2, S-1, S-2, S-3				

CONTROLLED CONCRETE TO BE READ IN CONJUNCTION WITH CAST-IN-PLACE REINFORCED CONCRETE DESIGN NOTES							
CONCRETE ELEMENT	CLASS OF EXPOSURE	MINIMUM COMPRESSIVE STRENGTH AT 28 DAYS (MPa)	MAXIMUM AGGREGATE SIZE (mm)	TOTAL AIR %	SLUMP RANGE (mm)	MAX W/C RATIO	CEMENT TYPE
REINFORCED SIDEWALK	C-2	32	20	5-8	75 - 125	0.45	GU
RETAINING WALL	C-1	35	20	5-8	75 - 125	0.40	GU

REINFORCEMENT SPLICES TO BE READ IN CONJUNCTION WITH CONCRETE REINFORCEMENT DESIGN NOTES

- ES.

 THIS TABLE IS BASED ON NORMAL WEIGHT CONCRETE (r = 35 MPs. AND ON REINFORCING STEEL by = 400 MP.

 TOP HORZOVITAL BASES ARE DEFINED AS HORZOVITAL REINFORCEMENT PRACED SUCH THAT MORE THAN

 SOBORD OF CONCRETE S CAST IN THE MEMBER BEBLOW THE RESPROCREMENT.

 FOR STANDARDE DIBEOMENT DEPTH NITO CONCRETE, DIVIDE BASIC TENSION LAP SPLICE NUMBERS BY 1.3.

		TENSION SPLICE (mm)		
		VERTICAL OR BOTTOM HORIZONTAL BARS	TOP HORIZONTAL BARS	
AR SIZE	COMPRESSION SPLICE (mm)	UNCOATED BARS	UNCOATED BARS	
10M	300	400	500	
15M	450	600	750	
20M	600	800	1000	

ZUM	000	800	1000
	TYPICAL ABI	BREVIATIO	INS
ADDI	"ADDITIONAL"		"LONG"
AUUL ALT	"AUDITIONAL" "AI TERNATE"	LG. MAX	"MAXIMI IM"
ALUM	"ALUMINUM"	MECH	"MECHANICAL"
APPD	"APPROVED"	MIN	"MINIMUM"
APPROX or ±	"APPROXIMATELY"	NTS	"NOT TO SCALE"
ARCH AR or A ROD	"ARCHITECT" "ANCHOR ROD"	O.C.	"ON CENTER"
		0.F.	"OUTSIDE FACE"
B.L.L.	"BOTTOM LOWER LAYER"	OPNG	"OPENING"
B.U.L.	"BOTTOM UPPER LAYER"	OPP	"OPPOSITE"
BM	"BEAM"	PL	"PLATE"
BOT	"BOTTOM"	R/W	"REINFORCE WITH"
BS	"BOTH SIDES"	REINF	"REINFORCING"
C/W	"COMPLETE WITH"	S.F.	"STEP FOOTING"
CANT	"CANTILEVER"	S.W.	"SHORT WAY"
CLR	"CLEAR"	SIM	"SIMILAR"
CMU	"CONCRETE MASONRY UNIT"	STAGG	"STAGGERED"
COL	"COLUMN"	STIFF	"STIFFENER"
CONC	"CONCRETE"	STIRR	"STIRRUPS"
CONN	"CONNECTION"	SYMM	"SYMMETRICAL"
CONST.	"CONSTRUCTION"	T&B	"TOP & BOTTOM"
CONT	"CONTINUOUS"	T.L.L.	"TOP LOWER LAYER"
CP	"COMPLETE PENETRATION" (WELD)	T.O.	"TOP OF"
DIA	"DIAMETER"	T.O.F.	"TOP OF FOOTING"
DWG	"DRAWING"	T.O.S.	"TOP OF STEEL"
DWL	"DOWEL"	T.O.W.	"TOP OF WALL"
(E)	"EXISTING"	T.U.L.	"TOP LIPPER LAYER"
E.F.	"EACH FACE"	THK	"THICK"
E.S.	"EACH SIDE"	TYP	"TYPICAL"
F W	"FACH WAY"	UNO	"UNLESS NOTED OTHERWISE"
EL	"ELEVATION"	IIIS	"UNDERSIDE"
ELEV	"ELEVATION"	VERT	"VERTICAL"
FTG	"FOOTING"	VIF	"VERIEY IN FIFI D"
H1E	"HOOK ONE END"	W/	"WITH"
H2F	"HOOK TWO ENDS"	WP	"WORK POINT"
HORIZ HORIZ	"HORIZONTAL"	www	"WELDED WIRE MESH"
LF.	"INSIDE FACE"	*****	WELDED WIKE MESH
L.W.	"LONG WAY"		
h. **.	LUNGWAN	L	

By Appd. YY.MM.DD Pavision 2 ISSUED FOR CONSTRUCTION 100% DESIGN SUBMISSION Issued

Stantec

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CITY OF DUNCAN TRANS-CANADA HIGHWAY MULTI-USE PATH

Duncan, BC

Client/Project

File Name: 5001 REVISED AD BJG BF 2022.06.02 Dwn. Chkd. Dsgn. YY,MM,DD GENERAL NOTES

S001

Project No. Scale 111720122 Drawina No. Sheet Revision

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