

April 25, 2018

Page 1 of 2 Our File: 649-015

SQUAMISH LILLOOET REGIONAL DISTRICT BRALORNE SANITARY SEWER RECONSTRUCTION

CONTRACT DOCUMENTS AND SPECIFICATIONS ADDENDUM#1

This Addendum is being issued prior to the closing of Tenders and is intended as clarification and/or revision of the Contract Documents. This Addendum shall become an integral part of the Contract Documents and Tenderers shall acknowledge receipt on the appropriate page of the Form of Tender.

- 1. The closing date has been changed to Tuesday May 8, 2018. The closing time is at 2pm.
- 2. The SLRD fax number for tender amendments is 604 894 6526. Faxed revisions must be received prior to the closing time.
- 3. Enclosed is a revised Tender Form and a Re Issued for Tender Drawing set.
- 4. UES has addressed the electrical questions as follows:
 - a. Transformers, items #3-4, to be 7.5kVA and rated for outdoor use
 - b. Lightning arrestor to be removed from scope, surge protection device, item #13 on material list, is still required.
 - c. Item #8 on material list (enclosure ventilation fan) to be removed from scope
 - d. Item #20 on material list (fiberglass cabling compartment junction box) to be removed from scope.
 - e. No antenna required
 - f. Phoenix Contact and Weidmuller are accepted as equal for UPS
 - g. UPS to be powered by circuit A3 and provide power to control wiring.
- 5. The treatment specifications have been provided on drawing 649-015-16 R6.
- 6. The septic tank specification and detail has been updated on drawing 649-015-16 R6.
- 7. There has been three (3) proposed utility pole holds identified and a line item added in the SOQ. Each will be paid as a lump sum under item 2.11.
- 8. Two (2) areas where tree removal is required have been identified and corresponding line item 1.6 added to the SOQ.
- 9. All pipe for the service connections will be paid for under item 2.4.4. Item 2.8 is an additional allowance to perform the connection provide the coupler(s) as needed.

.../2

- 10. The gravel surface restoration depths have been adjusted in item 4.3 and on the standard gravels restoration detail and notes.
- 11. Section 6 General has been added and includes payment for mobilization, demobilization and Bonding/Insurance.
- 12. Manhole #43 was removed during the design phase. There is no Manhole #43.
- 13. Work on weekends, including Sundays and holidays is permitted.
- 14. Regarding the culverts in Item 4.7. All culverts will be bedded and backfilled in 19mm crushed gravel. Item 4.6 has been changed and refers to the existing culvert on Lorne Avenue adjacent to the ball diamond. This is to be reestablished during construction. If it cannot be salvaged a new culvert will be paid for under item 4.7
- 15. Refer to Special Provision 27.0 for BC Hydro coordination requirements.
- 16. The only District owned property available to be utilized for a lay down area is the proposed septic site. The majority of the property is privately owned, and contact information may be provided to the successful bidder, if the land owner grants permission. The owner and owner's rep will not act as a party to any agreements between the contractor and a private land owner.
- 17. Refer to Special Provision 17.0 and 26.0 regarding road closures and detours. The Hurley River road may be able to be closed for short periods of time during work hours with appropriate coordination by the contractor.

Stuert Purves, P. Eng.

SP/mm

Enclosures

TENDER FORM
Page T-5 (Rev 1)
SCHEDULE OF QUANTITIES
Job #649-015

SQUAMISH-LILLOOET REGIONAL DISTRICT BRALORNE SEWER SYSTEM RECONSTRUCTION

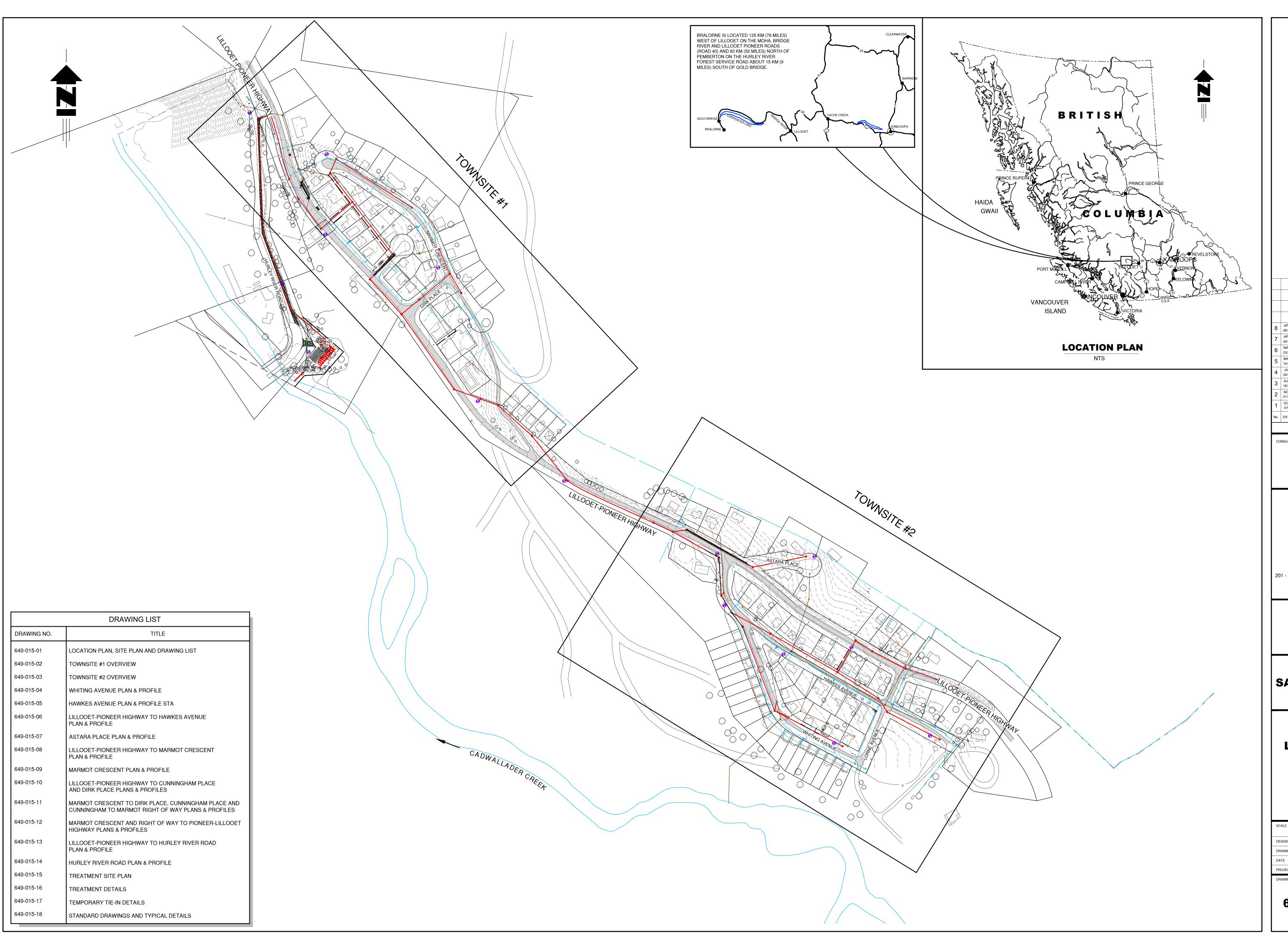
SCHEDULES OF QUANTITIES:

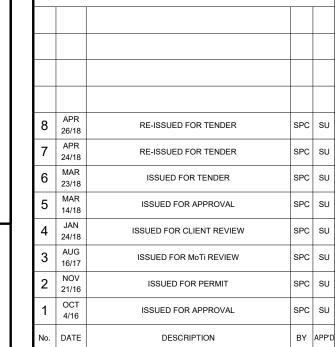
Supply and install the following works in accordance with these Contract Documents and Specifications complete with labour, equipment, materials, layout, de-watering, testing, restoration, permits, and incidentals.

ITEM NO.	DESCRIPTION	UNIT OF MEASURE.	ESTIMATED QUANTITY	UNIT PRICE	TOTAL PRICE
1.0	Removals				
1.1	Remove and dispose of existing surface aggregate including concrete and asphalt regardless of thickness, including sawcutting	m²	1330		
1.2	Remove and dispose of existing sanitary manhole during bypass connection (drawing 649-015-12)	ea	1		
1.3	Remove and stockpile 300mm of the existing surface aggregates on Hurley River Rd	m²	810		
1.4	Clear, strip, and grub treatment site including removal and disposal of existing trees (approx. 2000m²)	LS			
1.5	Import, place, and compact local material to 95% SPD to raise effluent bed site to proposed elevations	m³	1000		
1.6	Tree removal including all labour and equipment and disposal of wood. 1.6.1 Tree removal, Whiting Avenue 1.6.2 Tree removal, Marmot Crescent	LS LS			
		Subtotal: 1.0) - Removals		
2.0 2.1	Sanitary Sewer Collection System Supply and install Sanitary Sewer Mains at 1-3m depth c/w excavation, class 'B' sand bedding, backfill, and compaction. 2.1.1 200Ø PVC 2.1.2 150Ø PVC	l.m. l.m.	2050 185		
2.2	Supply and install Sanitary Sewer Mains over 3m depth c/w class 'B' sand bedding, backfill, and compaction. 2.2.1 200Ø PVC	l.m.	140		
2.3	Supply and install sanitary manholes 2.3.1 Precast 1050Ø base c/w lid, frame, and cover 2.3.2 Precast 1050Ø base c/w lid, markers and steel plate 2.3.3 Precast 1050Ø barrels 2.3.4 Precast 1200Ø base c/w lid, frame, and cover 2.3.5 Precast 1200Ø barrels	ea ea v.m. ea v.m.	41 3 57 1 3		
2.4	Supply and install sanitary sewer services 2.4.1 200x100Ø Sanitary service wye 2.4.2 Sanitary service connection into manhole c/w rubber seal gasket 2.4.3 100Ø Sanitary service inspection chamber at property 2.4.4 100Ø PVC DR28 sewer service including bends, sweeps, and appurtenances, regardless of depth	ea ea ea I.m.	74 33 107 1150		
2.5	Supply and install anchor blocks (joint restraints) between manholes S21 and S20 on dwg 649-015-09	ea	3		

ITEM NO.	DESCRIPTION	UNIT OF MEASURE.	ESTIMATED QUANTITY	UNIT PRICE	TOTAL PRICE
2.0	Sanitary Sewer Collection System - Continued				
2.6	Construct temporary manhole tie-ins to existing sanitary system c/w bypas	s			
	pumping, necessary fittings, pipe, excavation and backfill - complete				
	(See details on drawing 649-015-16)				
	2.6.1 Whiting Avenue temporary tie-in	LS			-
	2.6.2 Hawkes Avenue temporary tie-in	LS			
	2.6.3 Lillooet-Pioneer Highway temporary tie-in #1	LS			
	2.6.4 Marmot Crescent temporary tie-in	LS			
	2.6.5 Lillooet-Pioneer Highway temporary tie-in #2	LS			
2.7	Adjust watermain per detail on dwg 649-015-15	ea	6		
2.8	Locate and tie to existing services c/w necessary couplers and fittings	ea	81		
2.0		еа	O I		
2.9	Cap proposed service at property line c/w plug and marker post	ea	26		
2.10	CCTV Video inspection of 200mm and 150mm sanitary sewer mains	l.m.	2375		
2.11	Hold utility pole while installing adjacent sewer mains				
	2.11.1 Whiting Avenue, #1	LS			
	2.11.2 Whiting Avenue, #2	LS			
	2.11.3 Hawkes Avenue, # 3	LS			
	Subtotal: 2.0 - Sanitary	Sewer Collec	tion System		
3.0	Sanitary Sewer Treatment and Outfall				
3.1	Supply and install 2-30 cubic meter septic tanks c/w inlet	LS			
J. I	piping and outlet piping to flow meter manhole	LS			
	piping and outlet piping to now meter mannole				
3.2	Supply and install 10 biofilters c/w flow dividers, inlet piping and				
J	outlet piping to outflow manhole c/w valves and fittings	LS			
3.3	Supply and install outfall piping to Cadwallader creek from outflow				
5.0	manhole including 150mm C900, 38mm forcemain, service saddle, corp				
	stop, curb stop, check valves and fittings	LS			
	stop, our stop, one on varves and manys	LO		-	
3.4	Supply and install flow meter and fittings in manhole per detail	LS			
	oupp.) and motal motor and mange in mainted per detail				
3.5	Supply and install effluent pump including rails, lifting apparatus, float				
	switches and fittings per detail	LS			
	Subtotal: 3.0 - Sanitary Sew	er Treatmen	t and Outfall		
4.0	Restoration				
4.1	Asphalt roadway restoration c/w 50mm cold mix asphalt, 100mm of				
	19mm minus crushed gravel base, and 150mm of 75mm minus pit run				
	sub-base including compaction to 100% SPD	m²	500		
1 2	Apphalt roadway rectoration a/w 50mm hat mix canhalt 450mm of				
4.2	Asphalt roadway restoration c/w 50mm hot mix asphalt, 150mm of				
	19mm minus crushed gravel base, and 300mm of 75mm minus pit run sub-base including compaction to 100% SPD	m²	350		
	Sub-base including compaction to 100% SPD	111-	330		
1.3	Gravel roadway restoration c/w 100mm of 19mm minus crushed				
1 .0	gravel base, and 150mm of 75mm minus pit run sub-base including				
	compaction to 100% SPD	m²	1825		
	compaction to 10070 of D	111	1023		-

ITEM NO.	DESCRIPTION	UNIT OF MEASURE.	ESTIMATED QUANTITY	UNIT PRICE	TOTAL PRICE
4.0	Restoration - Continued				
4.4	Boulevard and trench limit restoration including topsoil and seeding where required	m²	1200		
4.5	Reinstate stacked rock wall following construction	LS			
4.6	Re-establish storm culvert on Lorne Avenue	LS			
4.7	Supply and Install 600mm CSP culverts at entrance to treatment site	l.m.	30		
		Subtotal: 4.0 -	Restoration		
5.0 5.1	Electrical Supply and install Kiosk and 600v step up transformer c/w concrete base	LS			
5.2	Supply and install 600V direct bury cable c/w sand bedding and marking tape in common trench with sanitary main	l.m.	320		
5.3	Supply and install kiosk on site per detail c/w step down transformer, concrete pad, flow meter display, electrical and wiring	LS			
5.4	Supply and install pump level switches c/w wiring	LS			
5.5	Supply and install pump motor starter and controls c/w wiring	LS			
5.6	Supply and install Pole per detail including base, pole, alarm beacon and solar panels c/w wiring	LS			
		Subtotal: 5.	0 - Electrical		
6.0 6.1	General Mobilization	LS			
6.2	Demobilization	LS			
6.3	Insurance and Bonding	LS			
<u>Tende</u>	r Summary Subtotal 1.0 - Removals Subtotal 2.0 - Sanitary Sewer Collection System Subtotal 3.0 - Sanitary Sewer Treatment and Outfall	Subtotal: (5.0 - General		
	Subtotal 4.0 - Restoration Subtotal 5.0 - Electrical Subtotal 6.0 - General				
		Contingend GST (5% of Tend	arts 1.0 - 6.0 y Allowance ler Subtotal) ontract Sum		\$100,000.00





CONSULTANT SEAL



ISSUES / REVISIONS

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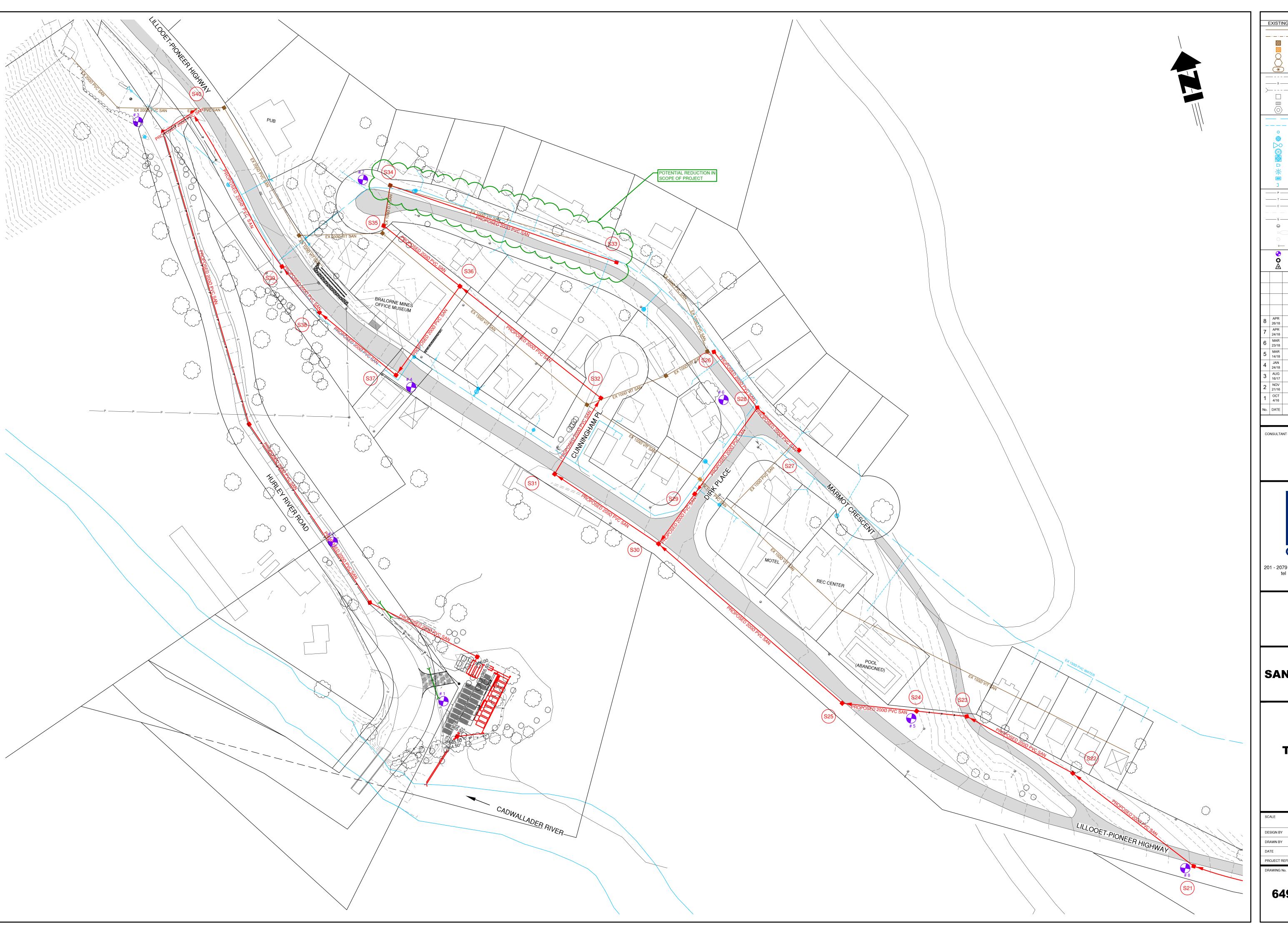
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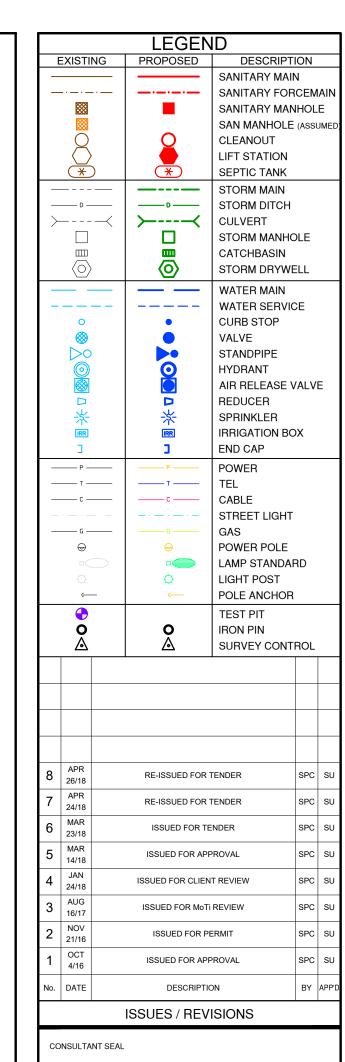
LOCATION PLAN
SITE PLAN
AND
DRAWING LIST

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DESIGN BY	SU	
DRAWN BY	SPC	
DATE	July 2016	
PROJECT REFERENCE No.	649-011	

649-015**01**

REVISION 8







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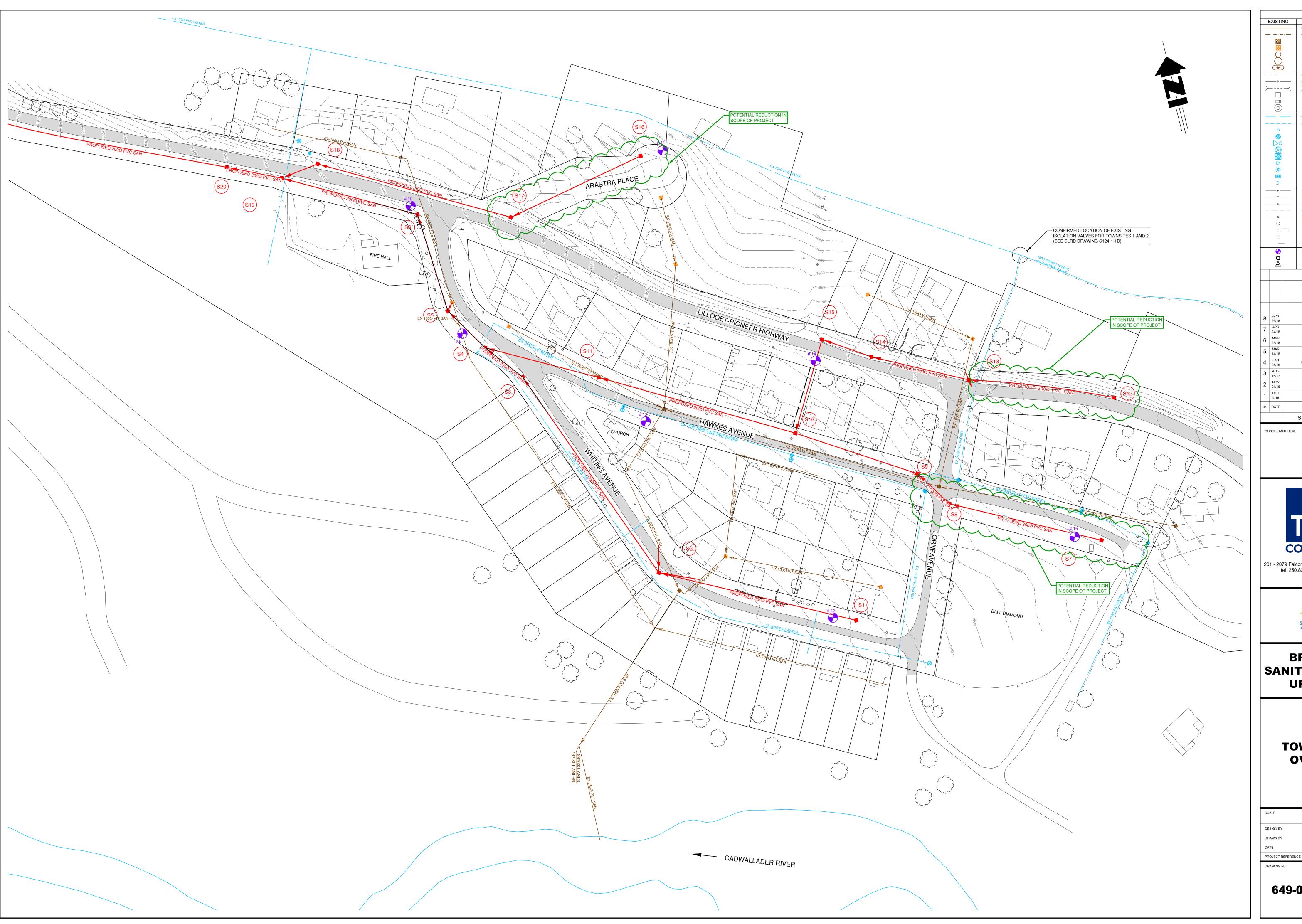


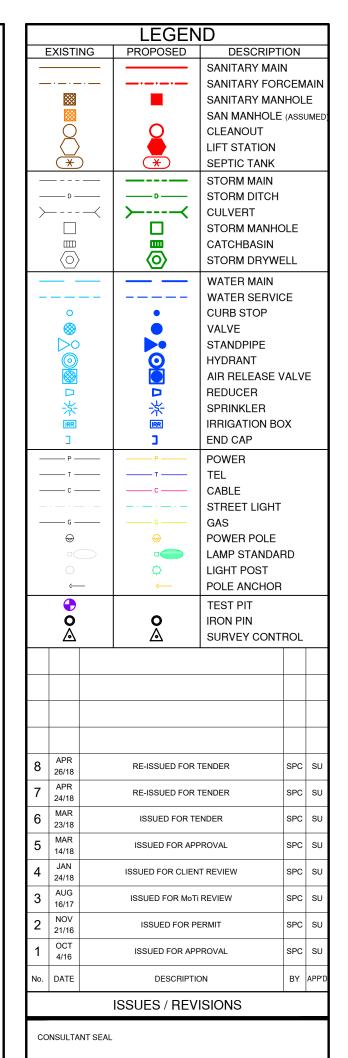
BRALORNE SANITARY SYSTEM UPGRADES

TOWNSITE #1
OVERVIEW

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	DRAWN BY	SPC	
	DATE	July 2016	
	PROJECT REFERENCE No.	649-011	
	DRAWING No.		SHFFT

649-015**02**







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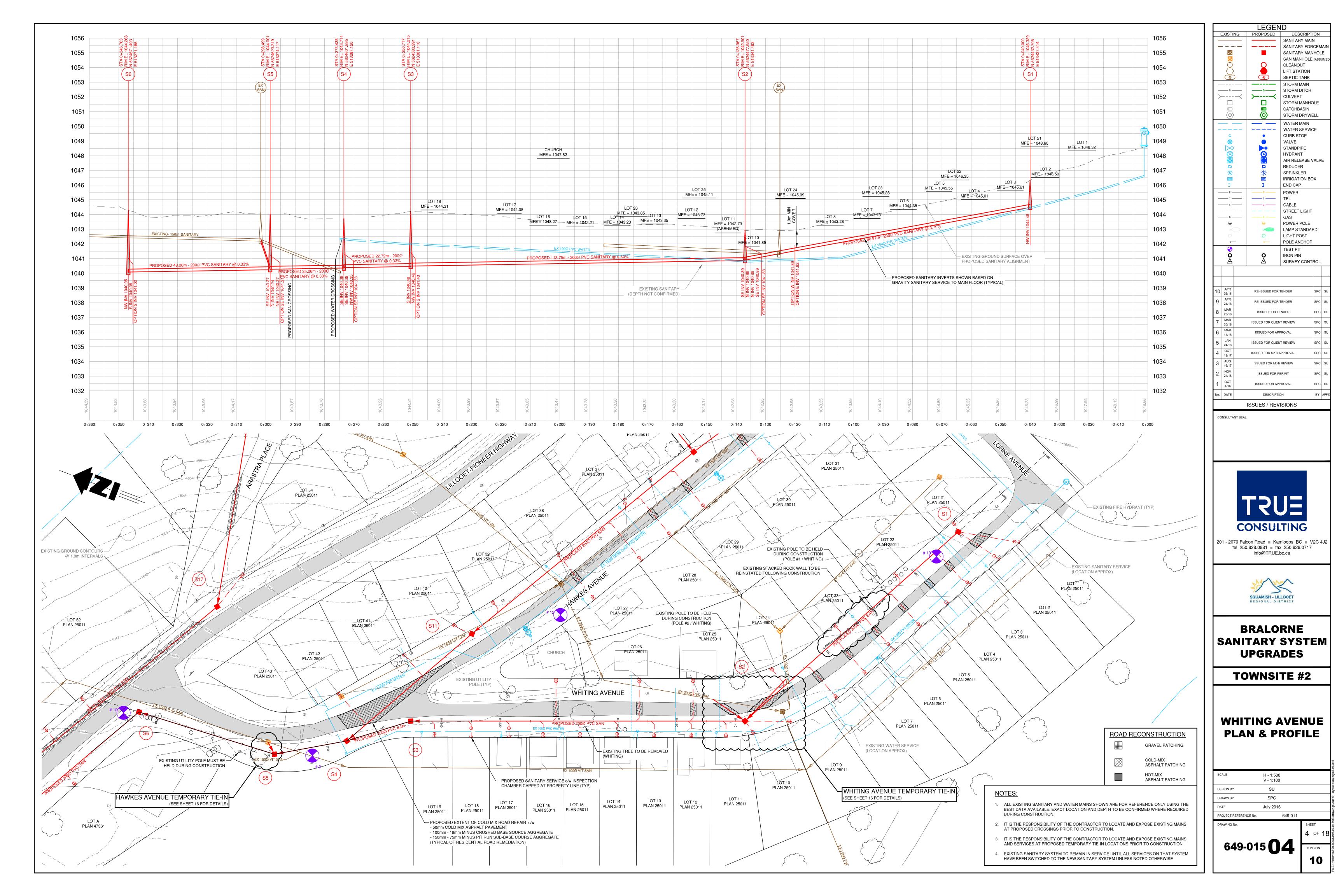


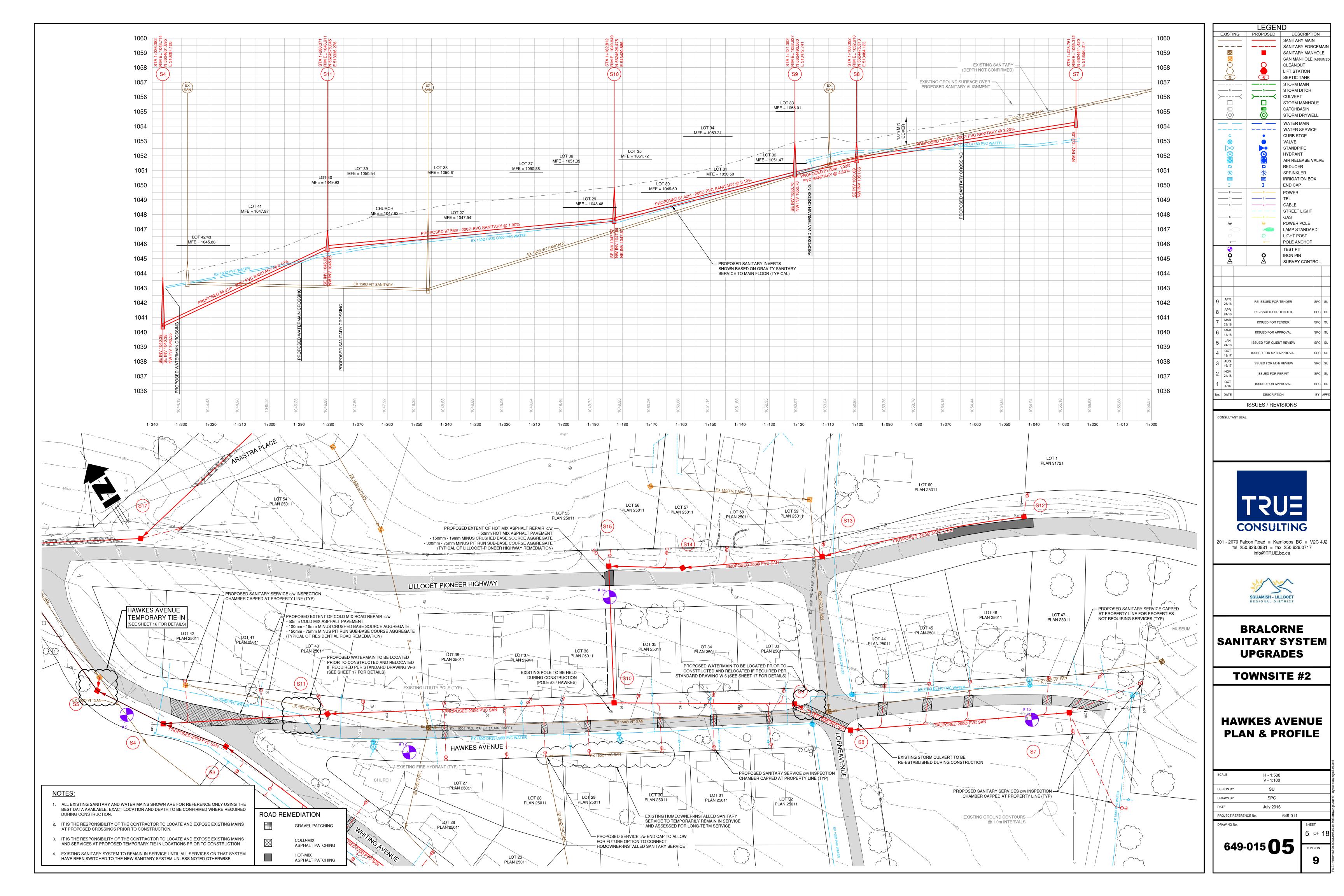
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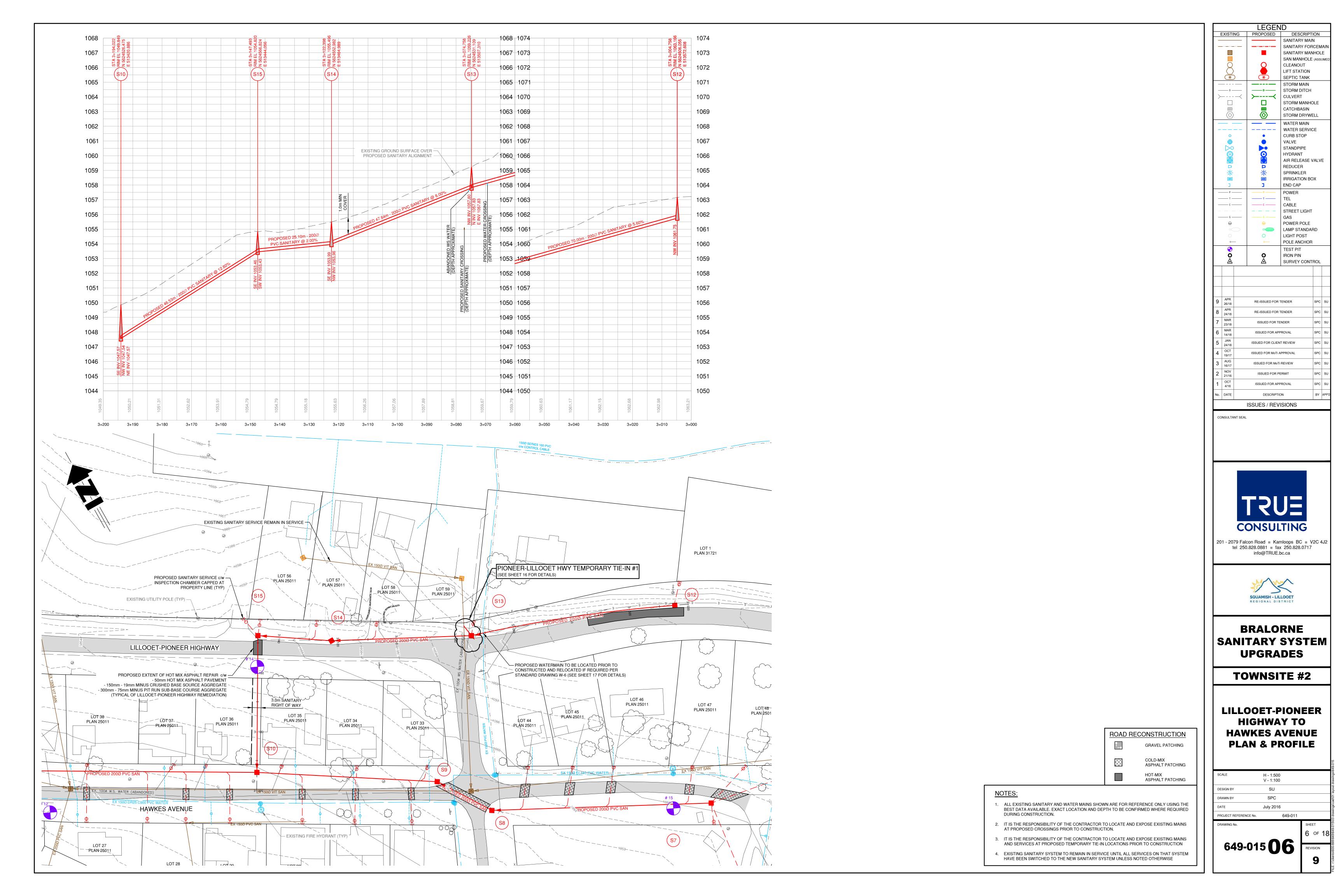
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OVERVIEW

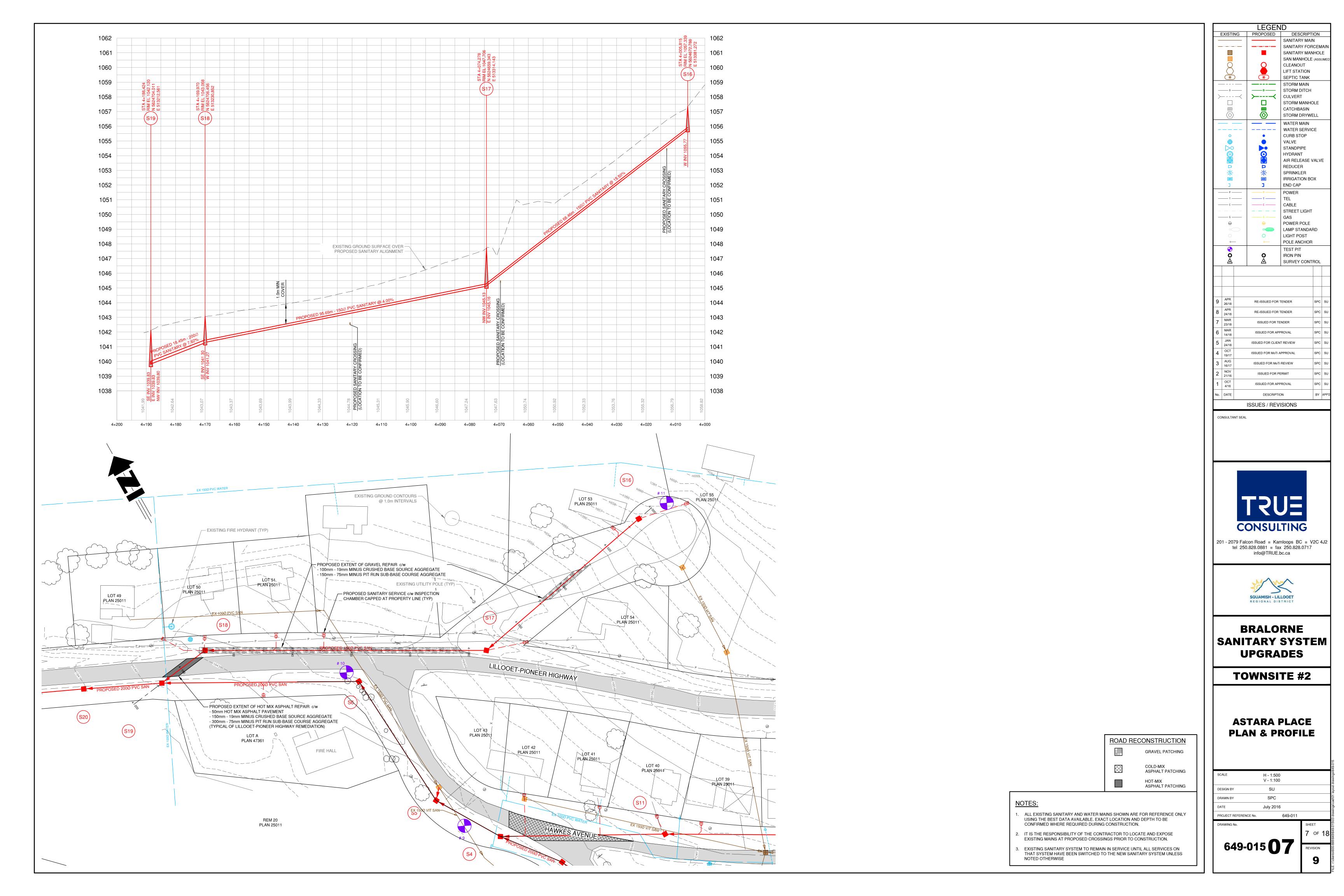
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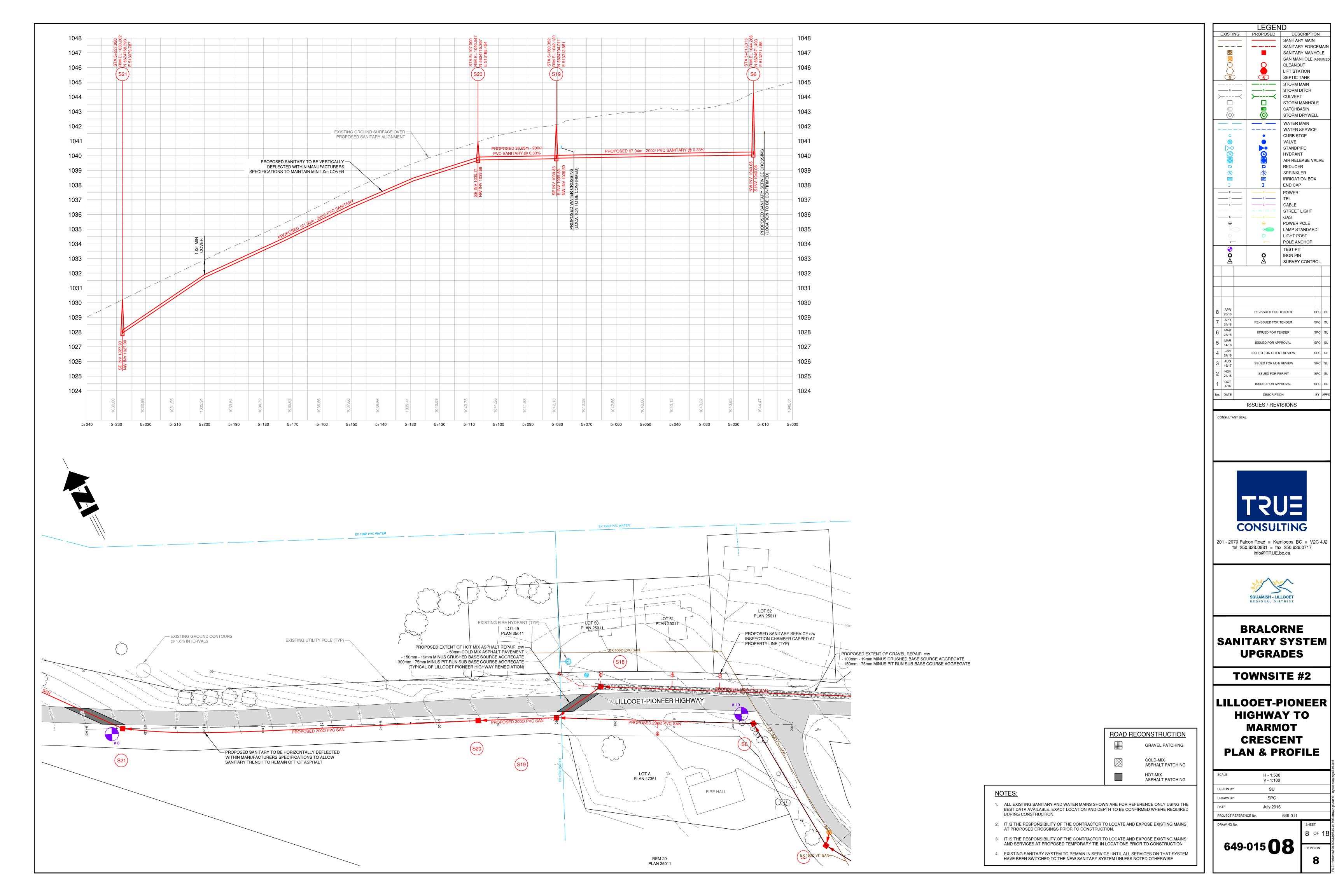
649-015**03**

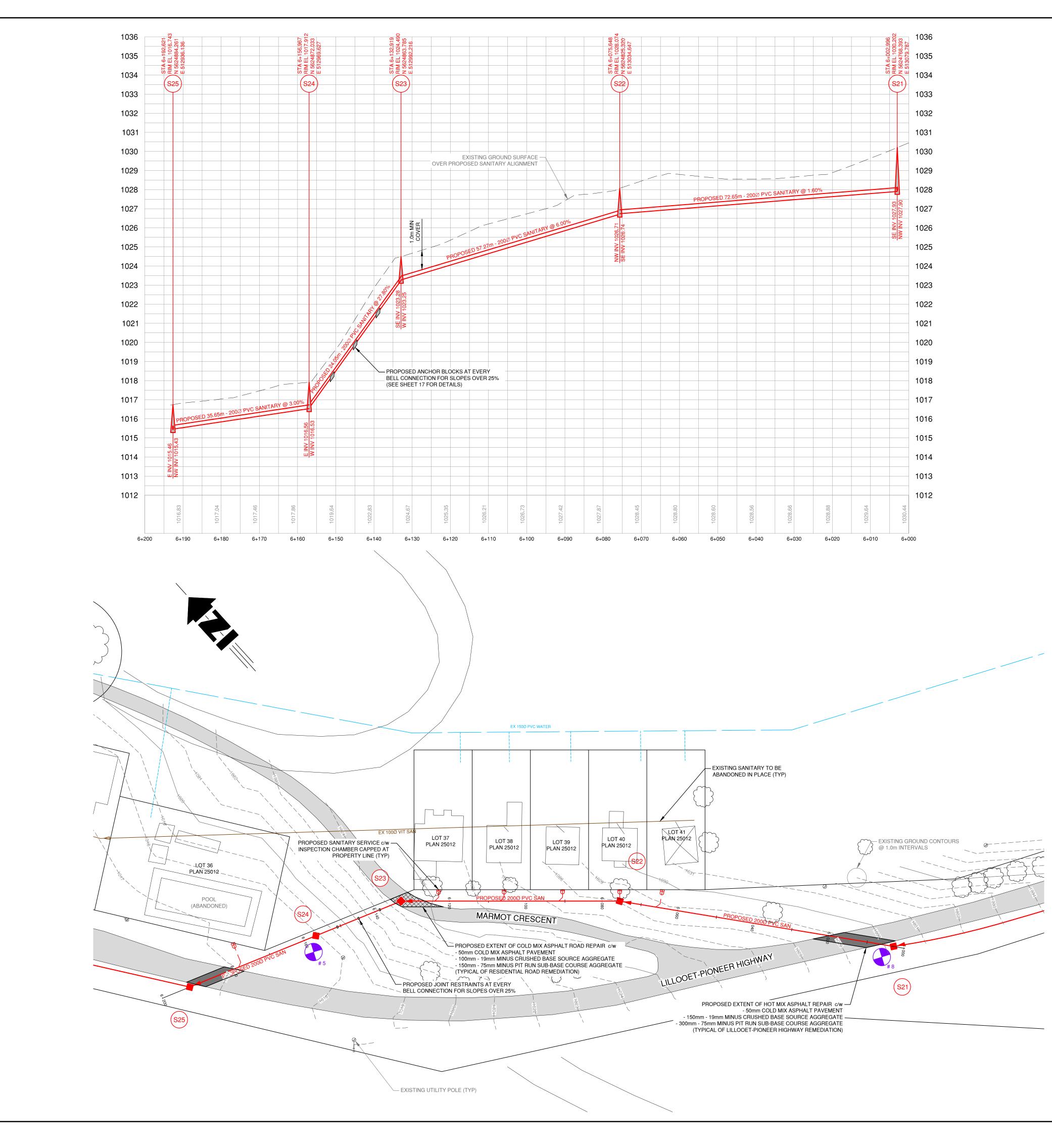












ROAD RECONSTRUCTION

GRAVEL PATCHING

ASPHALT PATCHING

ASPHALT PATCHING

AT PROPOSED CROSSINGS PRIOR TO CONSTRUCTION.

1. ALL EXISTING SANITARY AND WATER MAINS SHOWN ARE FOR REFERENCE ONLY USING THE

2. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO LOCATE AND EXPOSE EXISTING MAINS

3. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO LOCATE AND EXPOSE EXISTING MAINS

AND SERVICES AT PROPOSED TEMPORARY TIE-IN LOCATIONS PRIOR TO CONSTRUCTION

4. EXISTING SANITARY SYSTEM TO REMAIN IN SERVICE UNTIL ALL SERVICES ON THAT SYSTEM HAVE BEEN SWITCHED TO THE NEW SANITARY SYSTEM UNLESS NOTED OTHERWISE

BEST DATA AVAILABLE. EXACT LOCATION AND DEPTH TO BE CONFIRMED WHERE REQUIRED

COLD-MIX

HOT-MIX

DURING CONSTRUCTION.

LEGEND PROPOSED DESCRIPTION SANITARY MAIN SANITARY FORCEMAIN SANITARY MANHOLE SAN MANHOLE (ASSUME CLEANOUT LIFT STATION SEPTIC TANK — --- STORM MAIN STORM DITCH CULVERT STORM MANHOLE CATCHBASIN STORM DRYWELL WATER MAIN WATER SERVICE CURB STOP VALVE STANDPIPE HYDRANT AIR RELEASE VALVE REDUCER SPRINKLER IRRIGATION BOX END CAP POWER CABLE STREET LIGHT POWER POLE LAMP STANDARD LIGHT POST POLE ANCHOR TEST PIT IRON PIN SURVEY CONTROL RE-ISSUED FOR TENDER RE-ISSUED FOR TENDER ISSUED FOR TENDER ISSUED FOR APPROVAL ISSUED FOR CLIENT REVIEW ISSUED FOR MoTi APPROVAL ISSUED FOR MoTi REVIEW ISSUED FOR PERMIT ISSUED FOR APPROVAL DESCRIPTION ISSUES / REVISIONS

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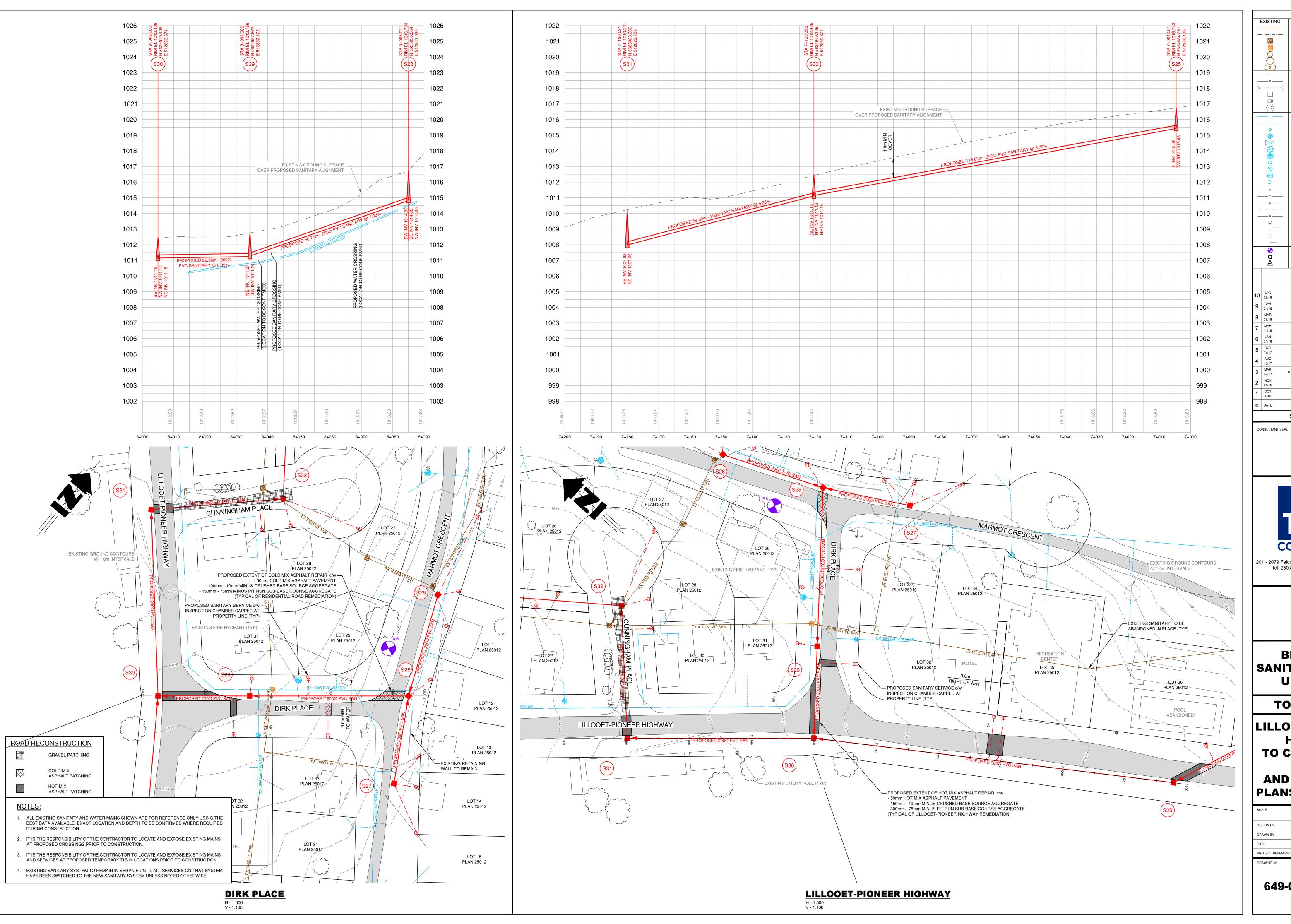
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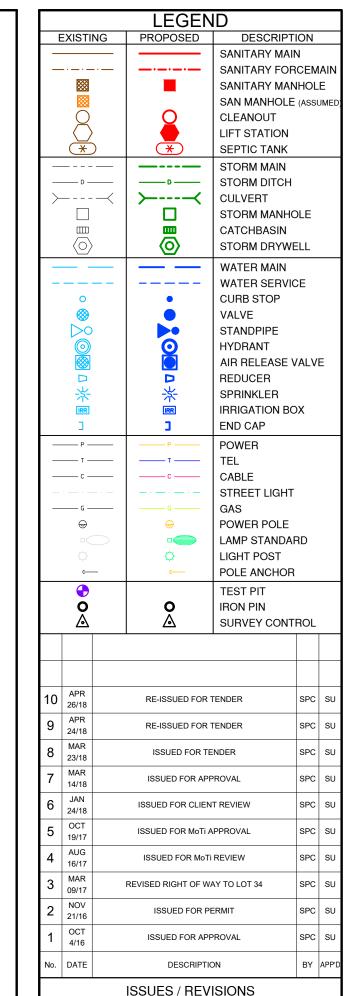
TOWNSITE #1

MARMOT CRESCENT PLAN & PROFILE

H - 1:500 V - 1:100 SPC July 2016 PROJECT REFERENCE No. 649-011

649-015 **09**





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BRALORNE SANITARY SYSTEM UPGRADES

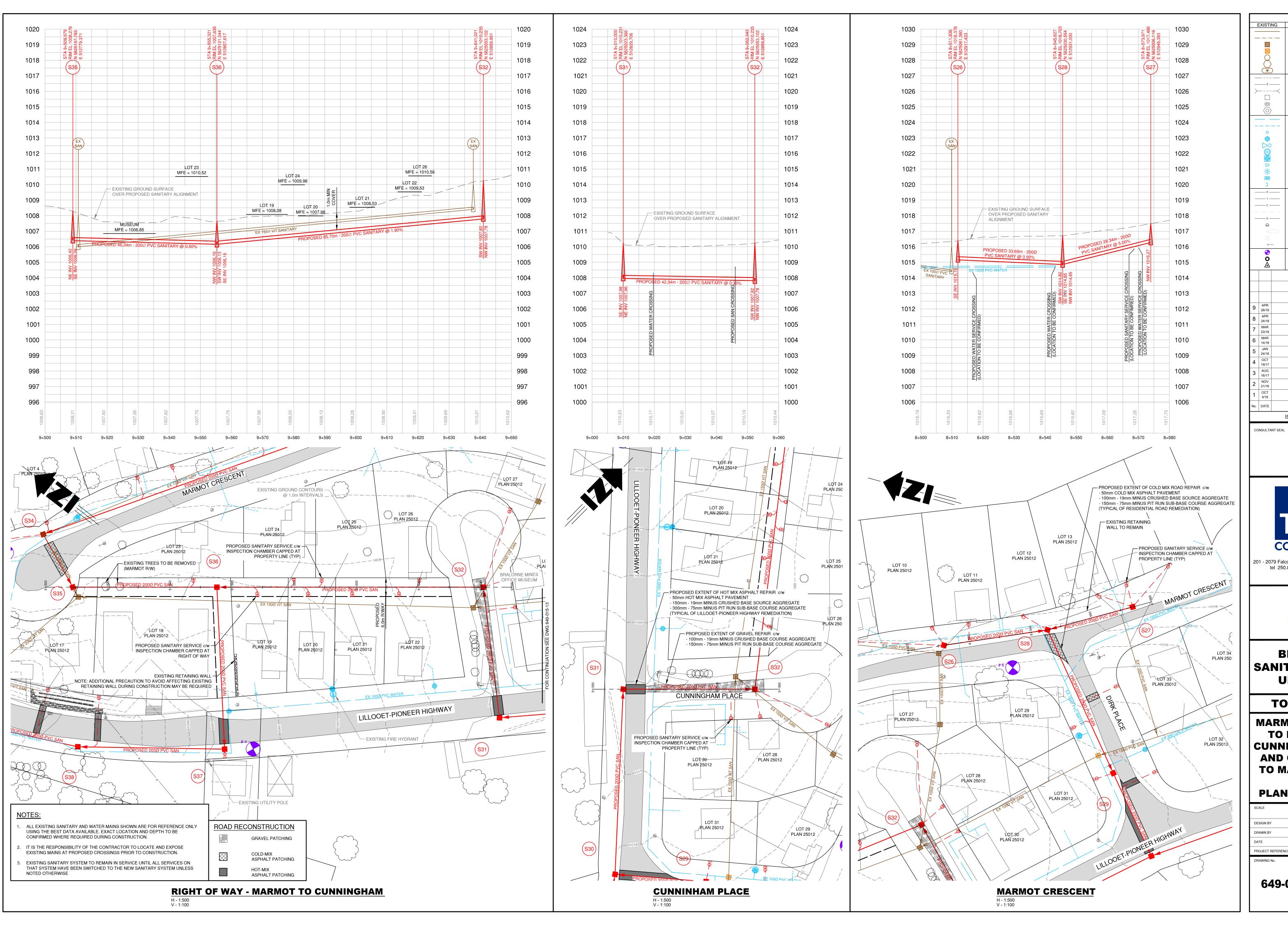
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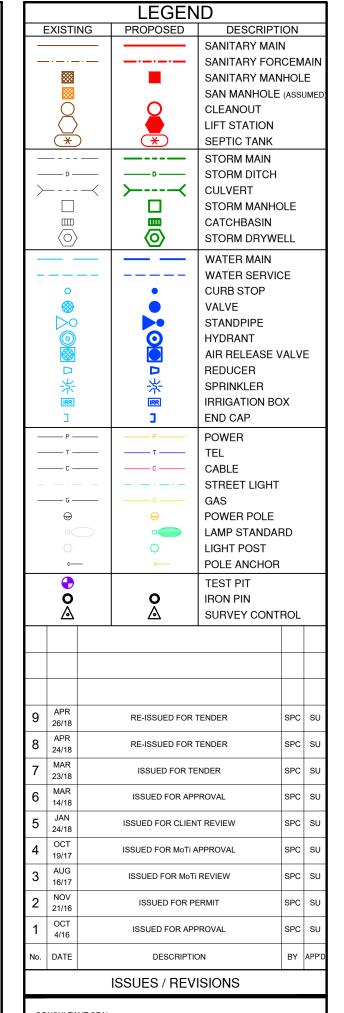
HIGHWAY
TO CUNNINGHAM
PLACE
AND DIRK PLACE
PLANS & PROFILES

SCALE	AS NOTED
DESIGN BY	SU
DRAWN BY	SPC
DATE	July 2016
PROJECT REFERENCE I	No. 649-011

649-015 **1 0**

REVISION 10





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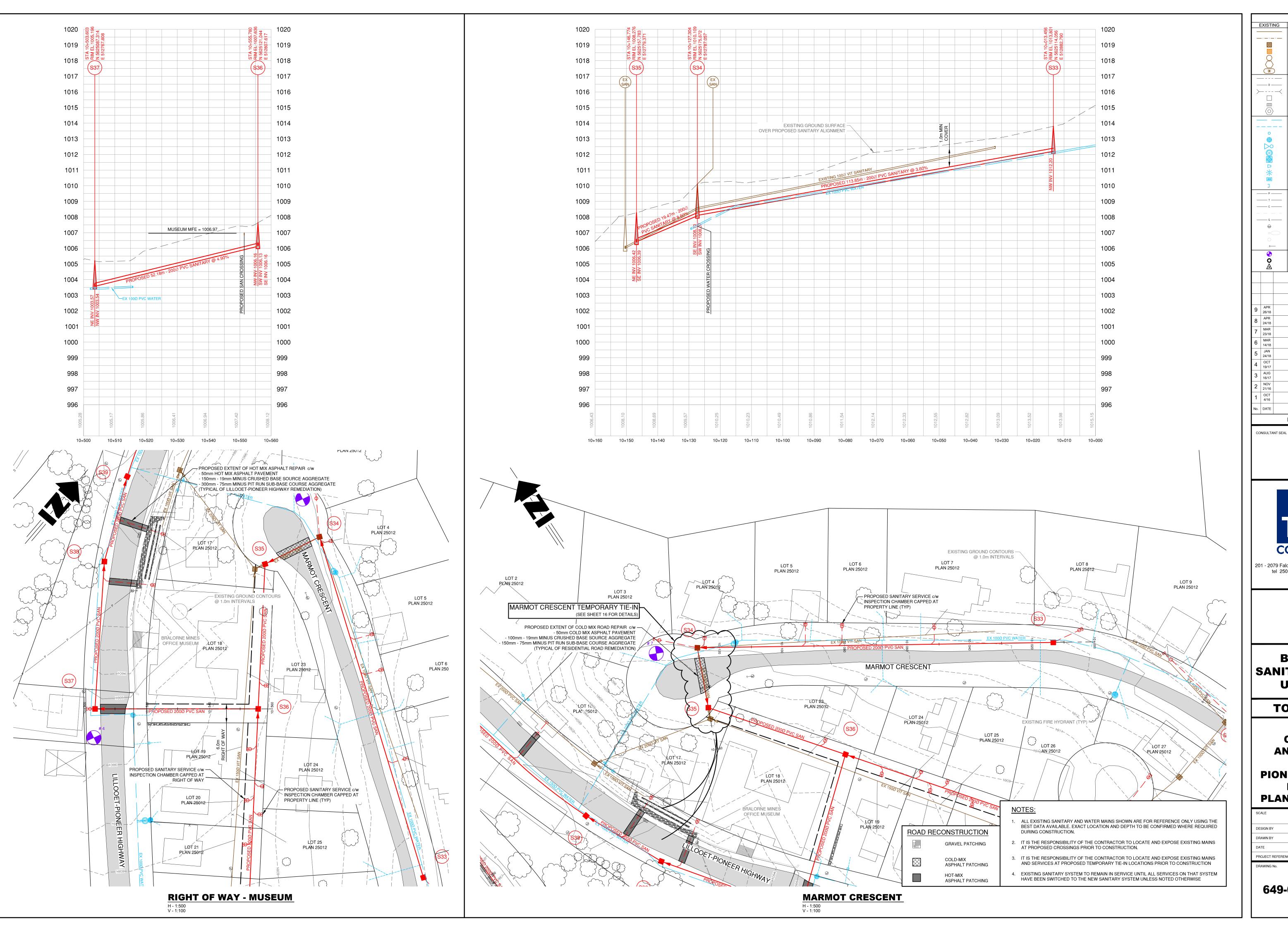
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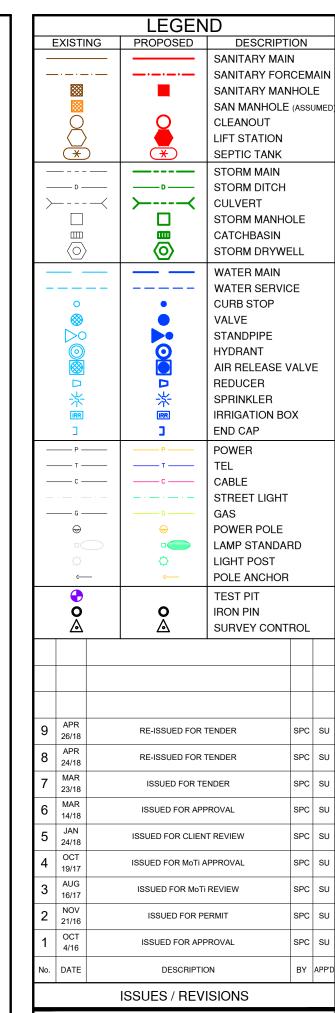
TOWNSITE #1

MARMOT CRESCENT TO DIRK PLACE, **CUNNINGHAM PLACE AND CUNNINGHAM TO MARMOT RIGHT OF WAY PLANS & PROFILES**

SCALE	AS NOTED	
DESIGN BY	SU	
DRAWN BY	SPC	
DATE	July 2016	
PROJECT REFERENC	CE No. 649-011	
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649-015





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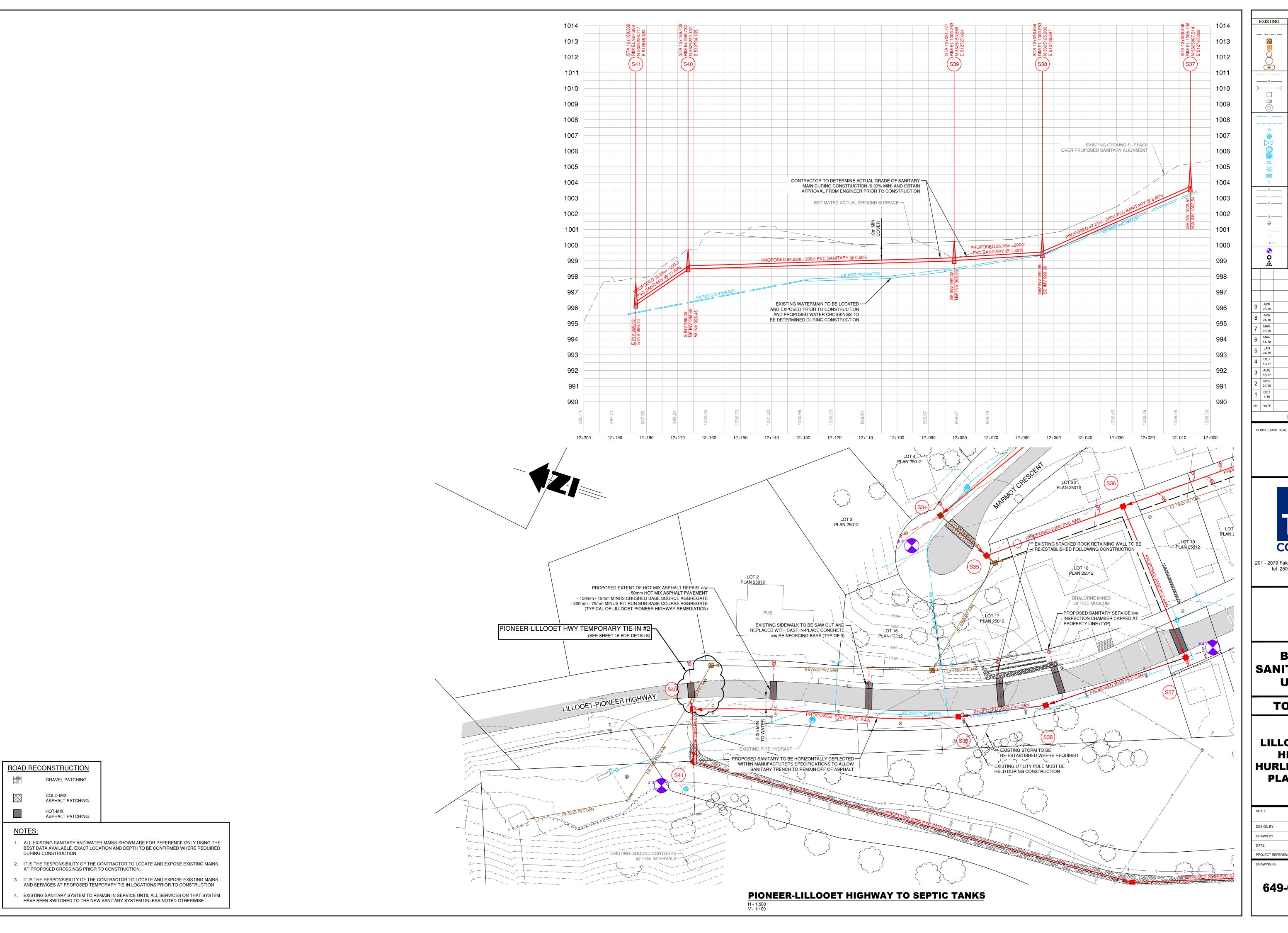
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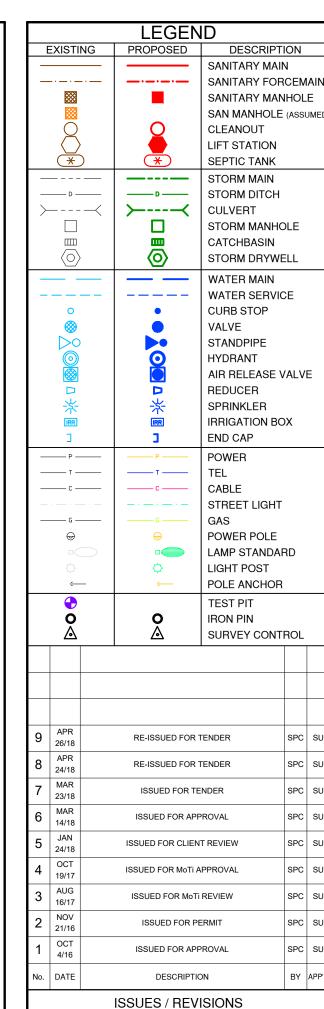
TOWNSITE #1

MARMOT
CRESCENT
AND RIGHT OF
WAY TO
PIONEER-LILLOOET
HIGHWAY
PLANS & PROFILES

DESIGN BY
DRAWN BY
DRAWN BY
SPC
DATE
July 2016
PROJECT REFERENCE No. 649-011

649-015**12**





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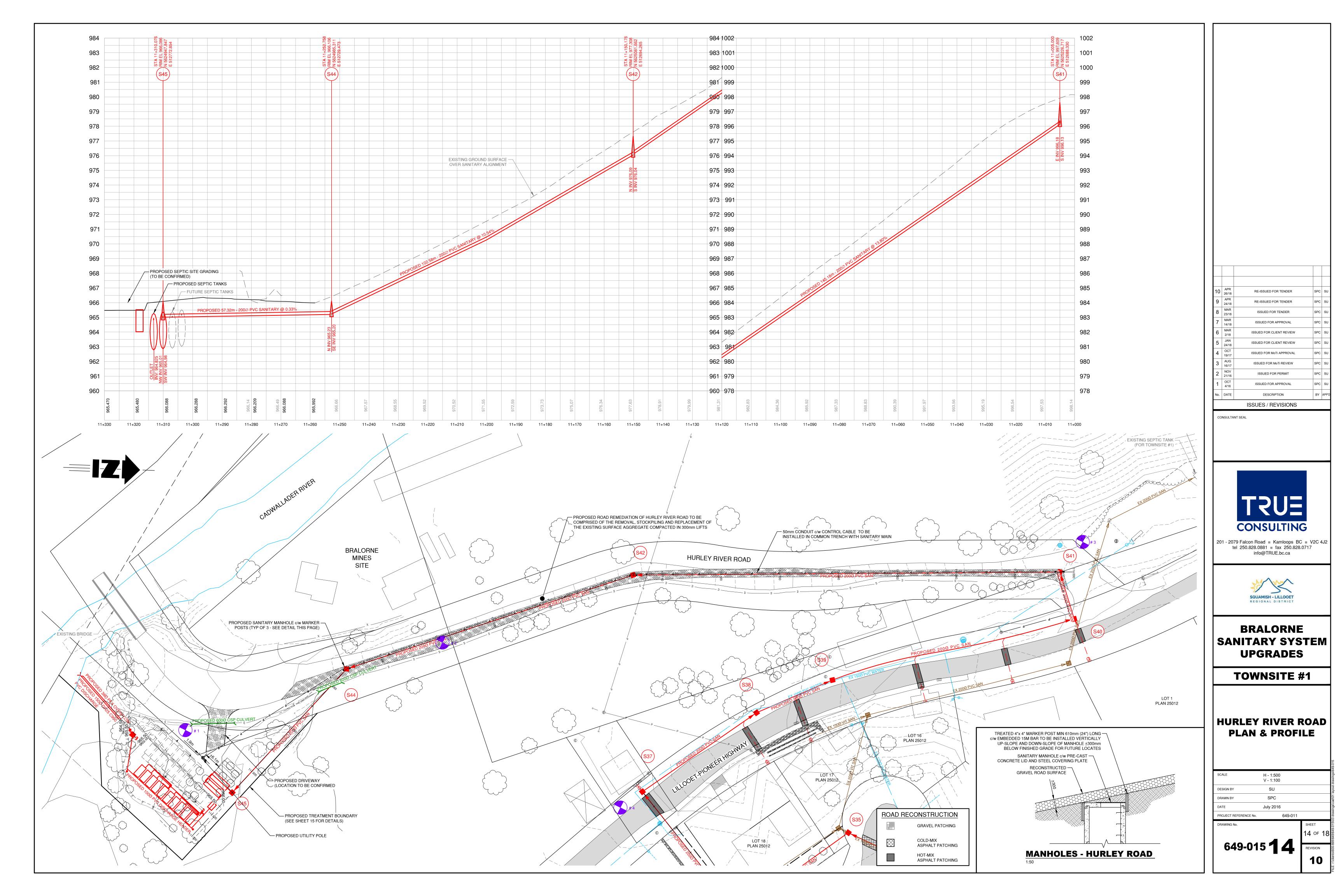
BRALORNE SANITARY SYSTEM **UPGRADES**

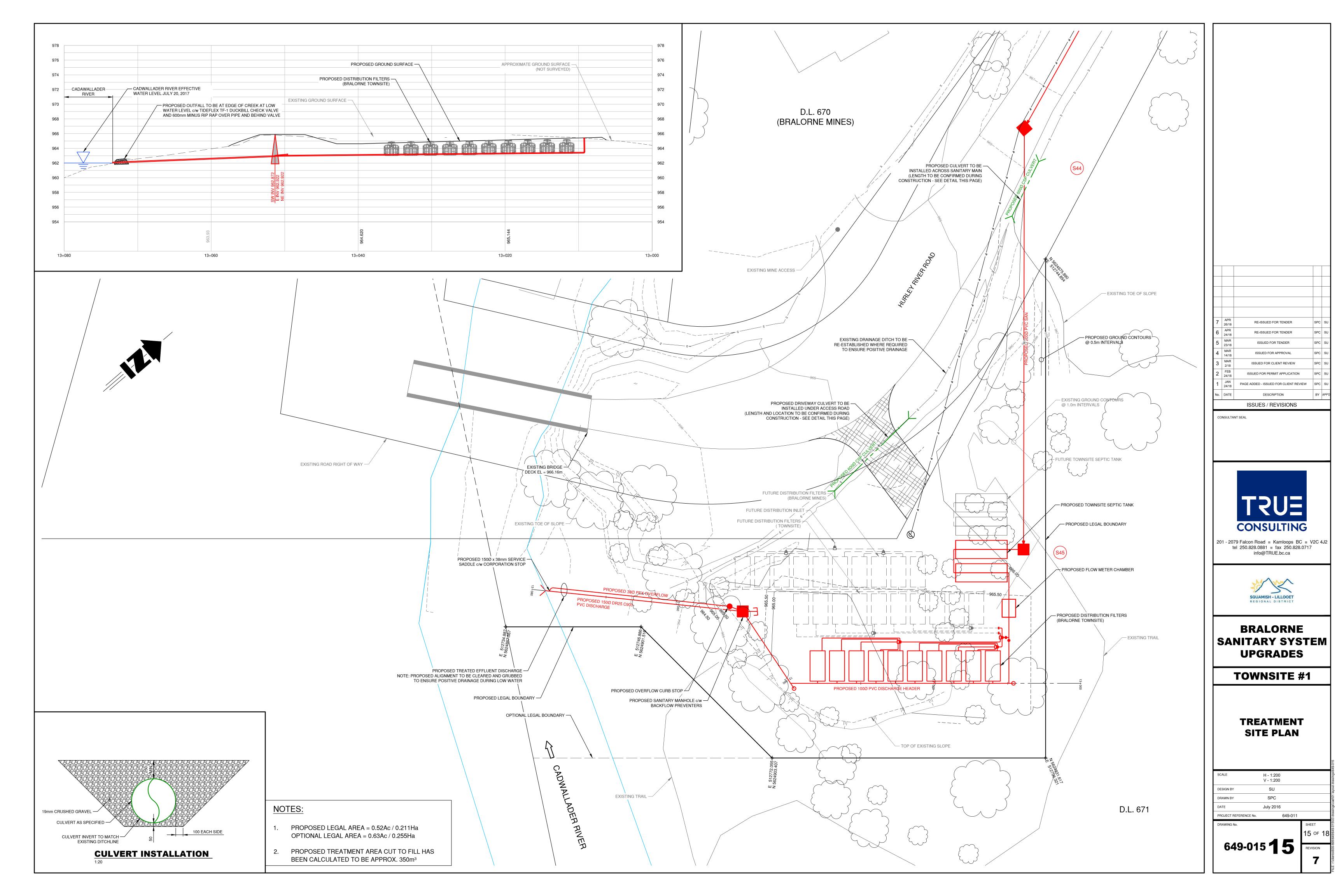
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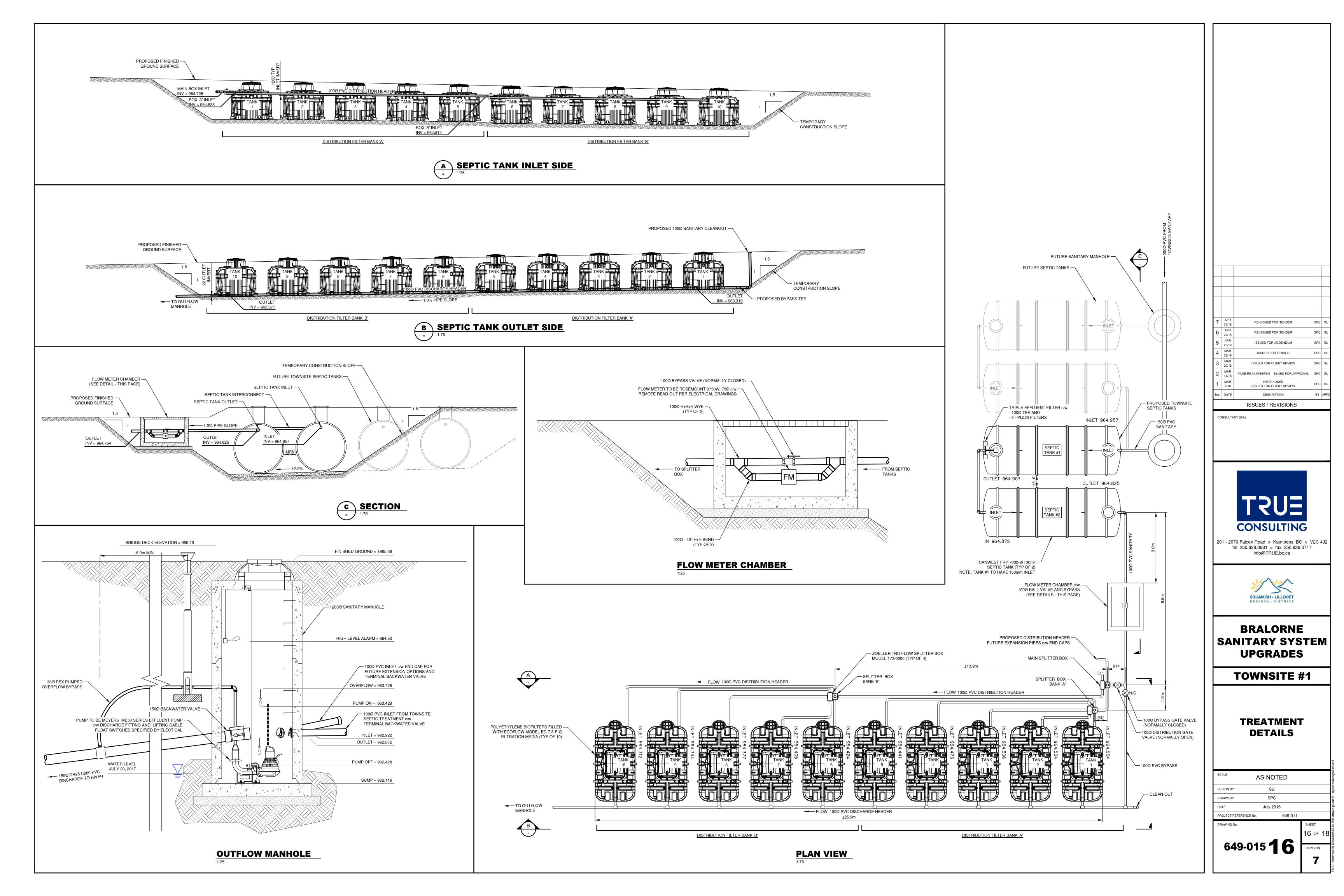
LILLOOET-PIONEER **HIGHWAY TO** HURLEY RIVER ROAD PLAN & PROFILE

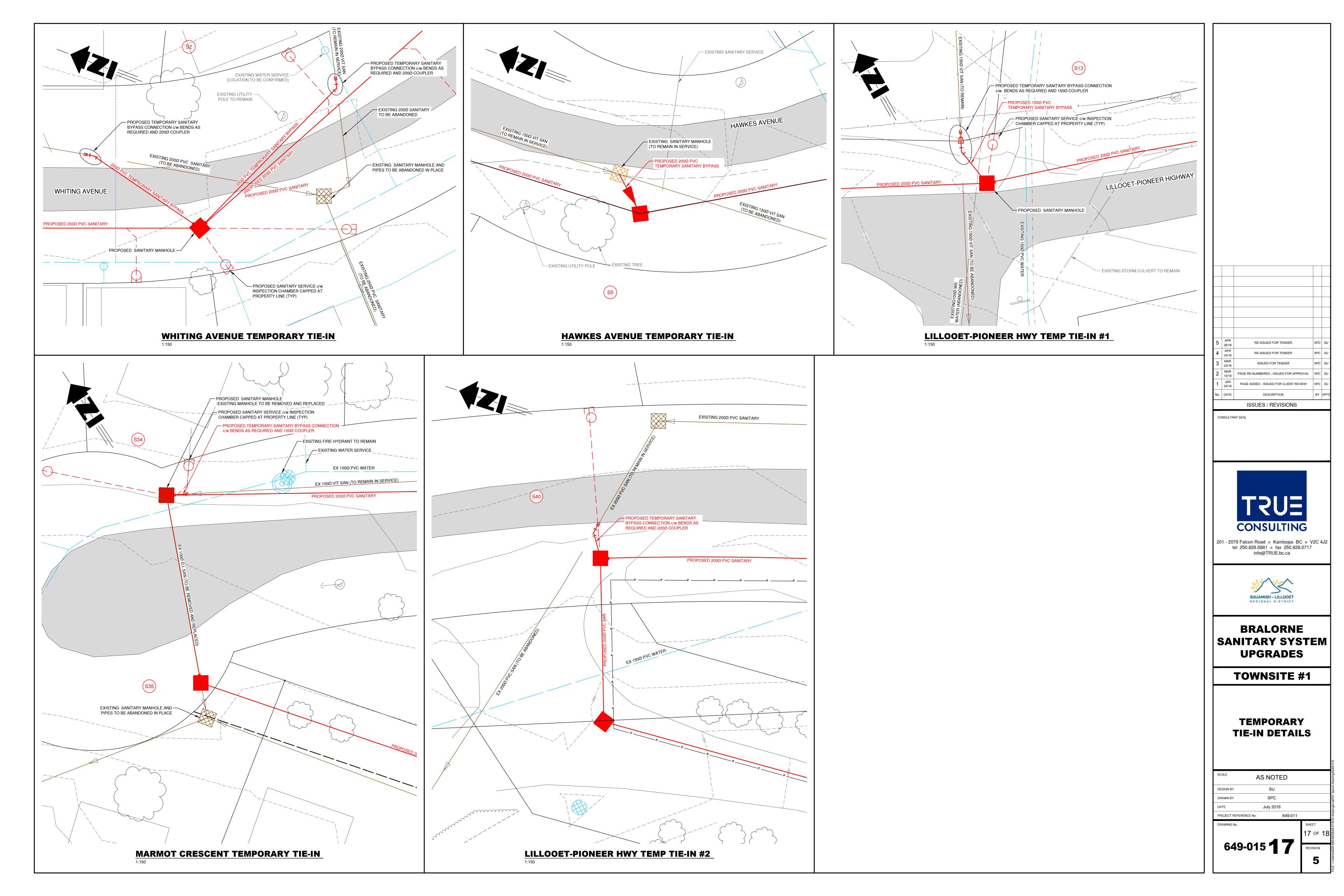
AS NOTED July 2016 PROJECT REFERENCE No.

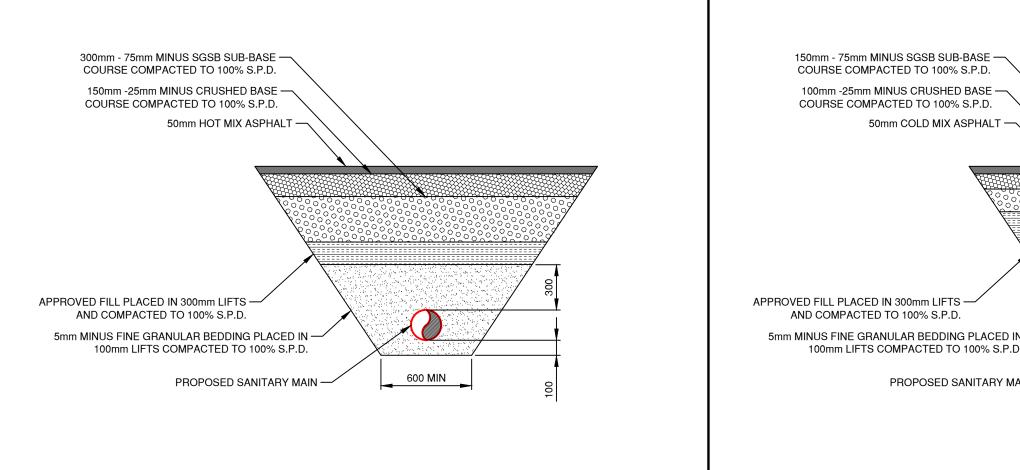
649-015 **13**



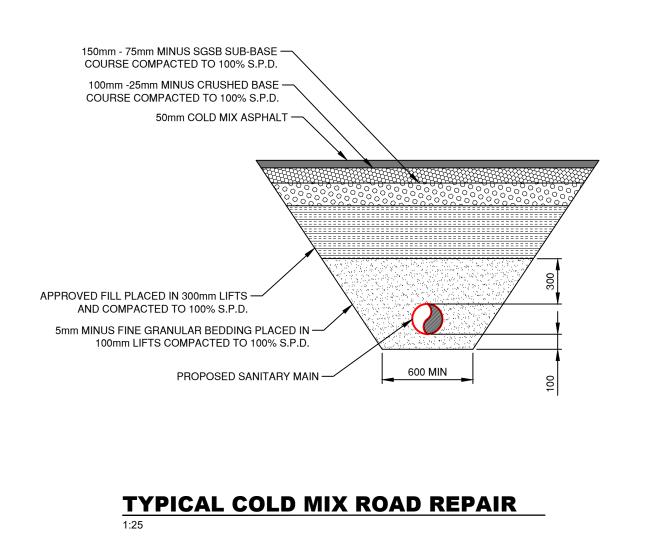


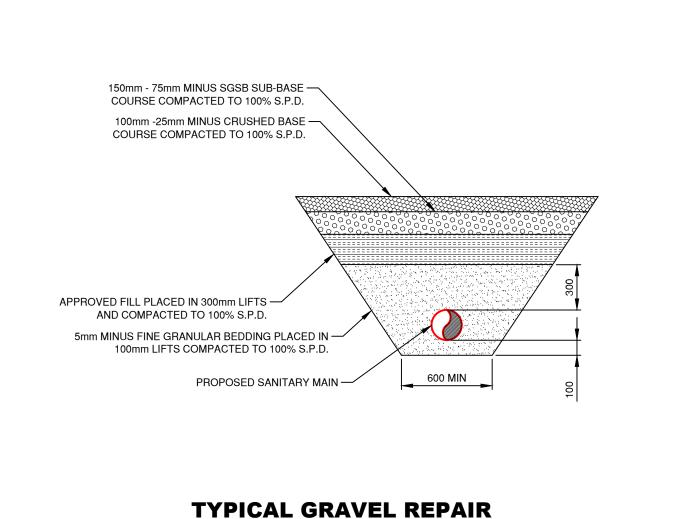


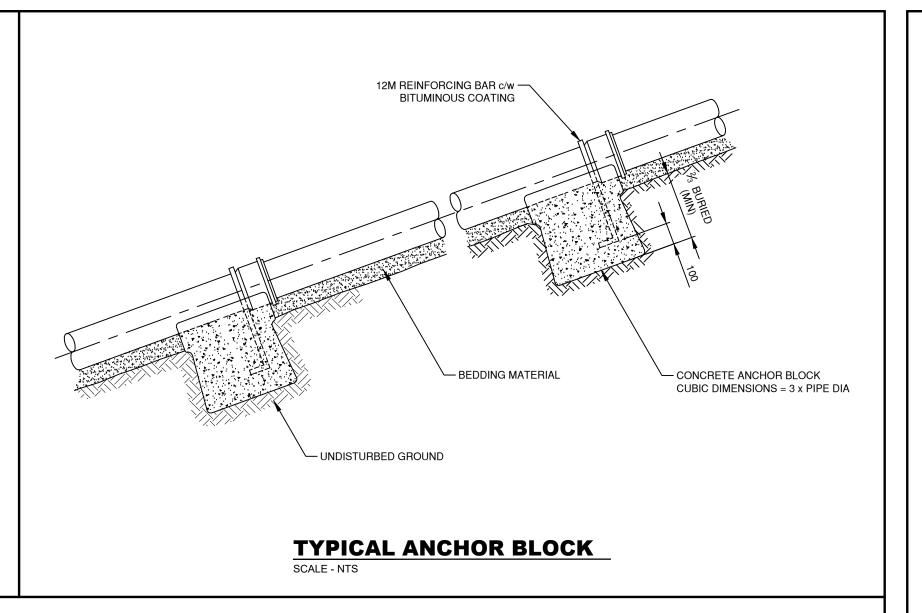


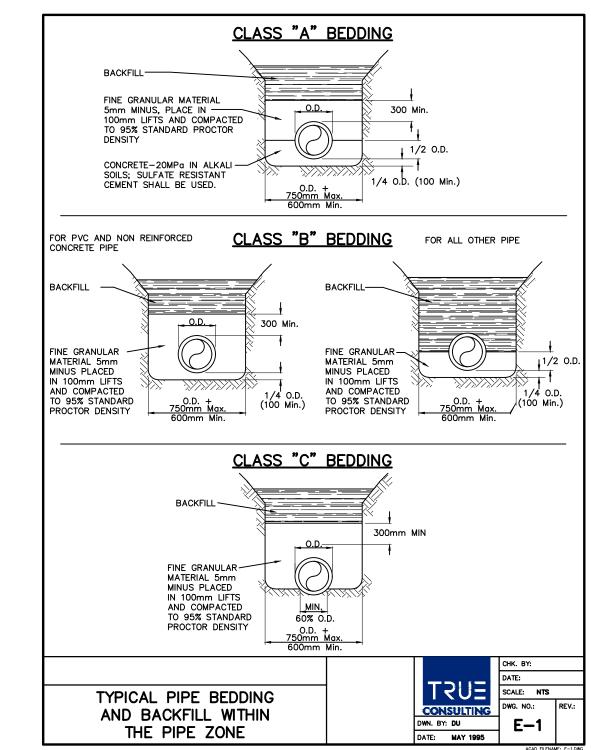


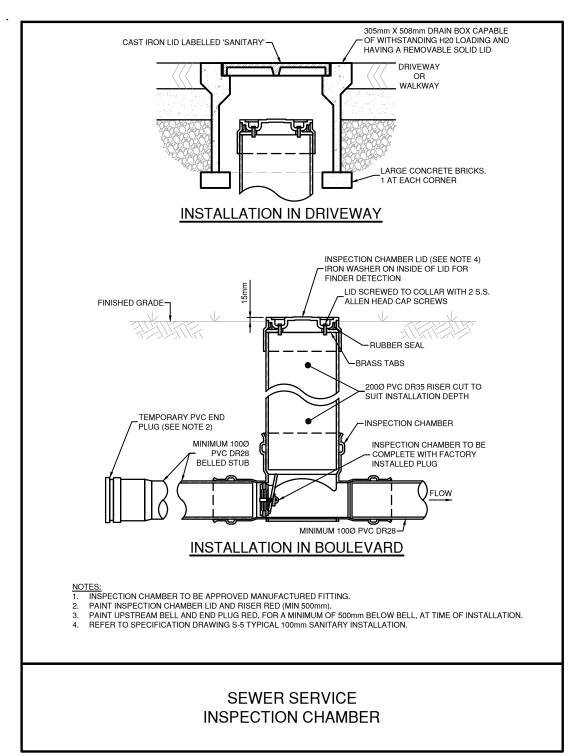
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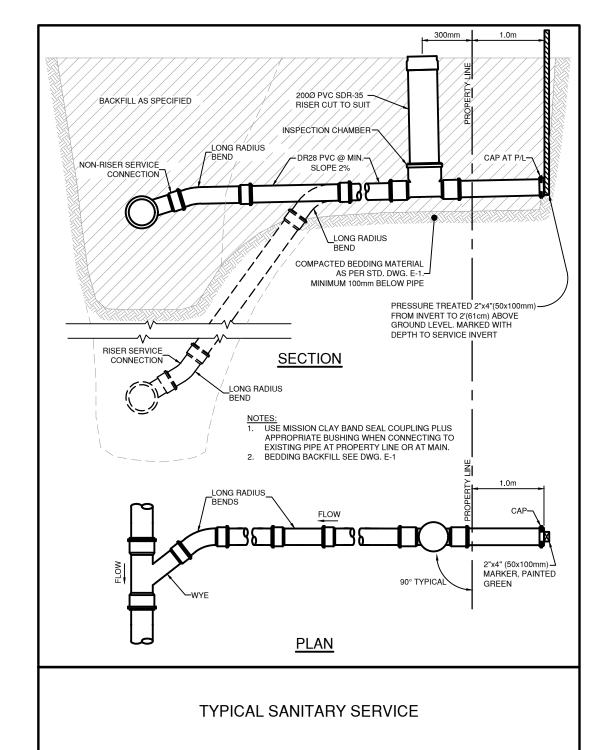


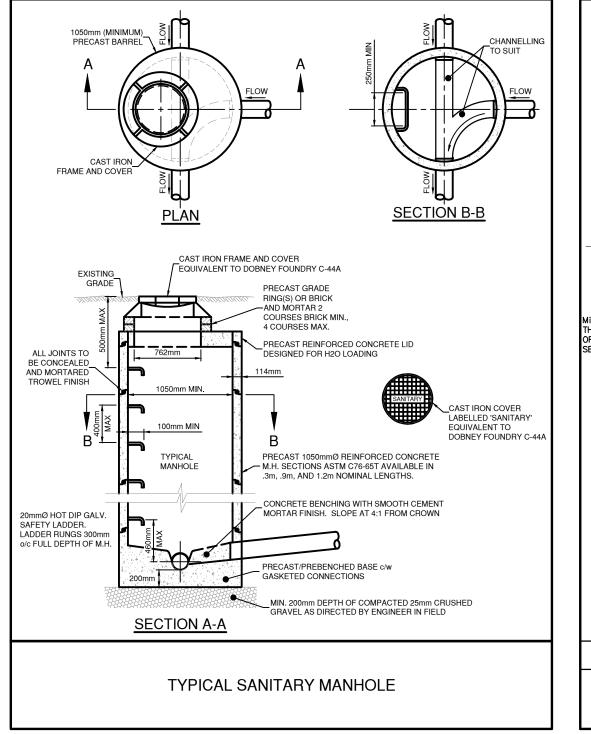


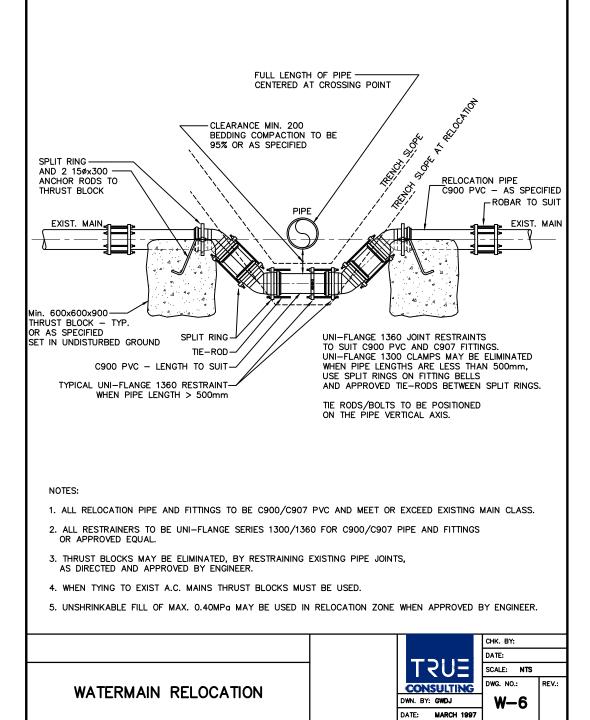


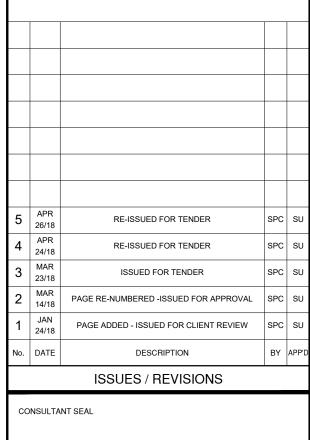














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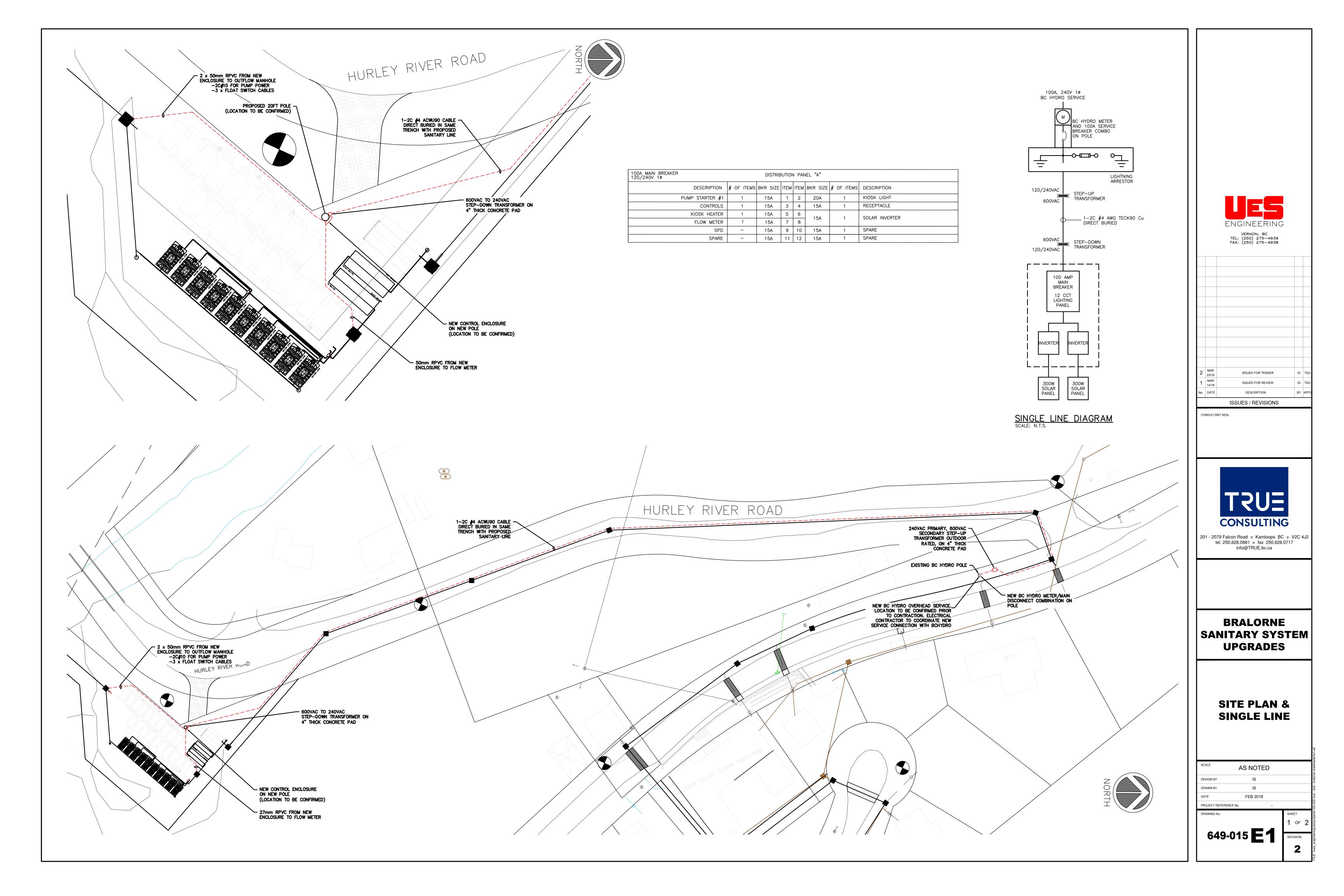
BRALORNE
SANITARY SYSTEM
UPGRADES

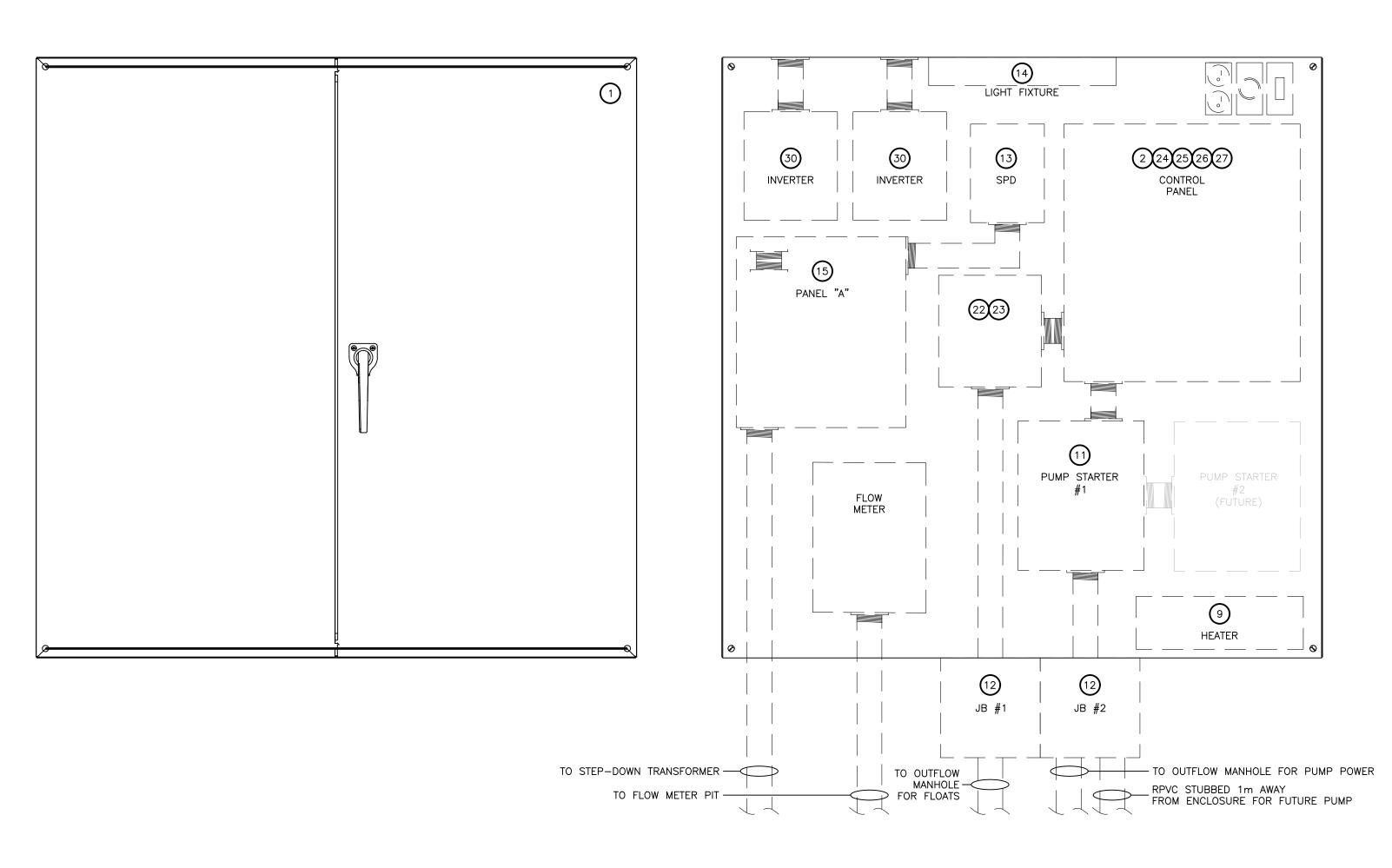
TOWNSITE #1

STANDARD
DRAWINGS AND
TYPICAL DETAILS

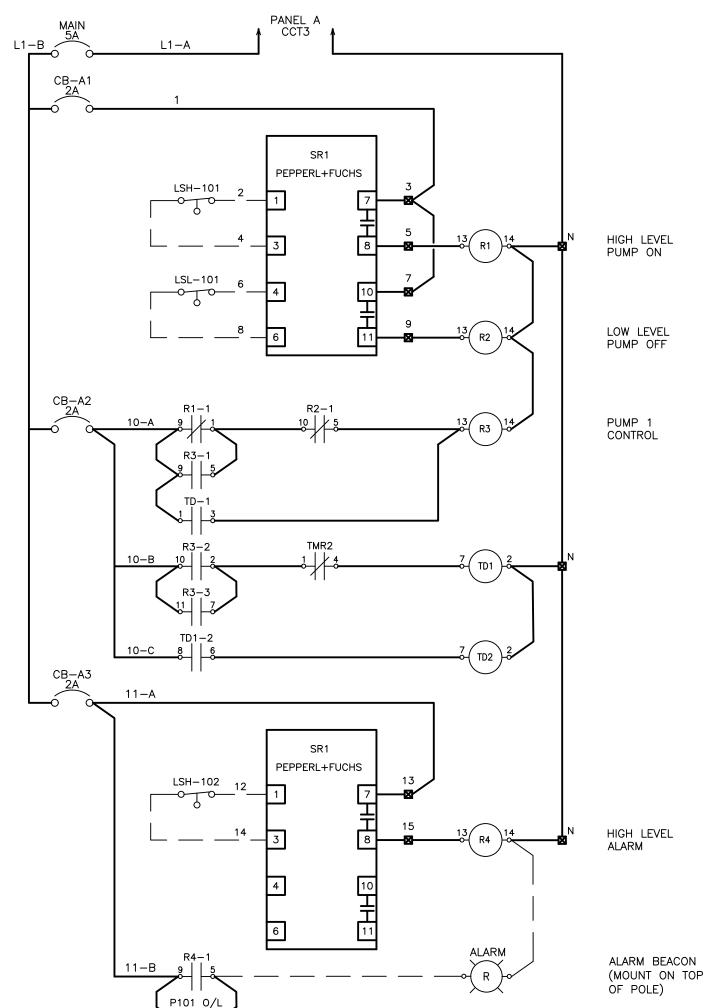
SCALE A	S NOTED		
DESIGN BY	SU		
DRAWN BY	SPC		
DATE	July 2016		
PROJECT REFERENCE No.	649-011		
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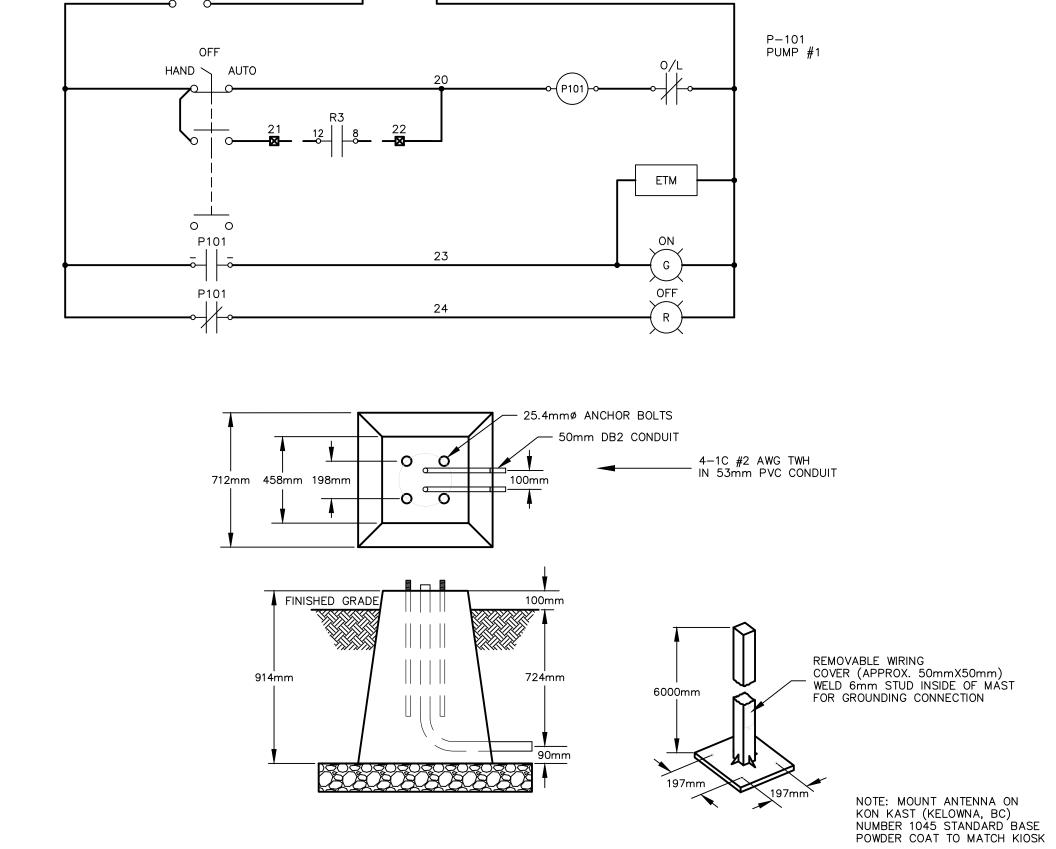
649-015 **18**





				MATERIAL LIST
ITEM	QTY	MANUFACTURER	PART #	DESCRIPTION
1	1	HAMMOND OR EQUAL	C3RMC484812	NEMA 3R ENCLOSURE C/W BACK PANEL
2	1	HAMMOND OR EQUAL	OPEN	NEMA 12 ENCLOSURE C/W BACK PANEL AND DIN RAIL (SIZE AS REQUIRED)
3	1	OPEN	OPEN	120/240V TO 600V STEP-UP TRANSFORMER
4	1	OPEN	OPEN	600V TO 120/240V STEP-DOWN TRANSFORMER
5	1	OPEN	OPEN	1 INCH SCRIM CRAFT INSULATION FOR ENCLOSURE
6	A.R.	OPEN	OPEN	EXPLOSION PROOF CABLE CONNECTORS
7	A.R.	OPEN	OPEN	EXPLOSION PROOF SEALS
8	2	OPEN	OPEN	ENCLOSURE VENTILATION FAN C/W THERMOSTAT
9	1	OPEN	OPEN	750W HEATER C/W THERMOSTAT
10	1	LIEBERT	GXT4-1000RT120	1000VA, 120V UPS C/W EXTERNAL BATTERY
11	1	OPEN	OPEN	NEMA SIZE 1 STARTER
12	2	OPEN	OPEN	NEMA-4X OUTDOOR RATED ALUMINUM JUNCTION BOX
13	1	TOTAL PROTECTION SOLUTIONS	TK-ST080-1P240	SURGE PROTECTION DEVICE
14	A.R.	OPEN	OPEN	FLUOR. LIGHT FIXTURES, C/W LAMPS, DOOR SWITCHES
15	1	OPEN	OPEN	120/240V, 12CCT BREAKER PANEL C/W 100A MAIN BREAKER
16	1	LEVITON	OPEN	3-WAY LIGHT SWITCH C/W 1110 BOX & METAL COVER
17	1	LEVITON	OPEN	GFCI RECEPTACLE C/W 1110 BOX & METAL COVER
18	A.R.	OPEN	EYS	CONDUIT SEALS
19	3	FLYGT	ENM-10	FLOAT SWITCH
20	2	OPEN	OPEN	FIBREGLASS CABLING COMPARTMENT JUNCTION BOXES
21	1	OPEN	OPEN	120VAC RECEPTACLE
22	2	PEPPERL & FUCHS	KFA5-SR2-EX2.W	INTRINSICALLY SAFE BARRIER FOR FLOAT SWITCHES
23	1	OPEN	OPEN	ENCLOSURE FOR INTRINSICALLY SAFE BARRIER
24	4	OMRON	MY4N-D2	4PDT, 120VAC RELAY
25	4	OMRON	PYF14A-E	4PDT, RELAY BASE
26	2	OMRON	H3CR-A8	TIME DELAY RELAY
27	AR	WEIDMULLER	4201 SERIES	CIRCUIT BREAKERS
28	1	OPEN	OPEN	120VAC RED ALARM BEACON
29	2	OPEN	OPEN	300W SOLAR PANEL
30	2	ENPHASE	OPEN	ENPHASE IQ 6 MICROINVERTERS C/W MOUNTING BRACKET
31	1	OPEN	OPEN	NOVA STRAIGHT SQUARE 20FT STEEL POLE, GALVANIZED, POWDER COATED BLA
32	1	OPEN	OPEN	TYPE C CONCRETE BASE AS PER MMCD SPECIFICATIONS
33	1	OPEN	OPEN	GROUNDING PLATE
34	1	OPEN	OPEN	MOUNTING BRACKET FOR SOLAR PANELS



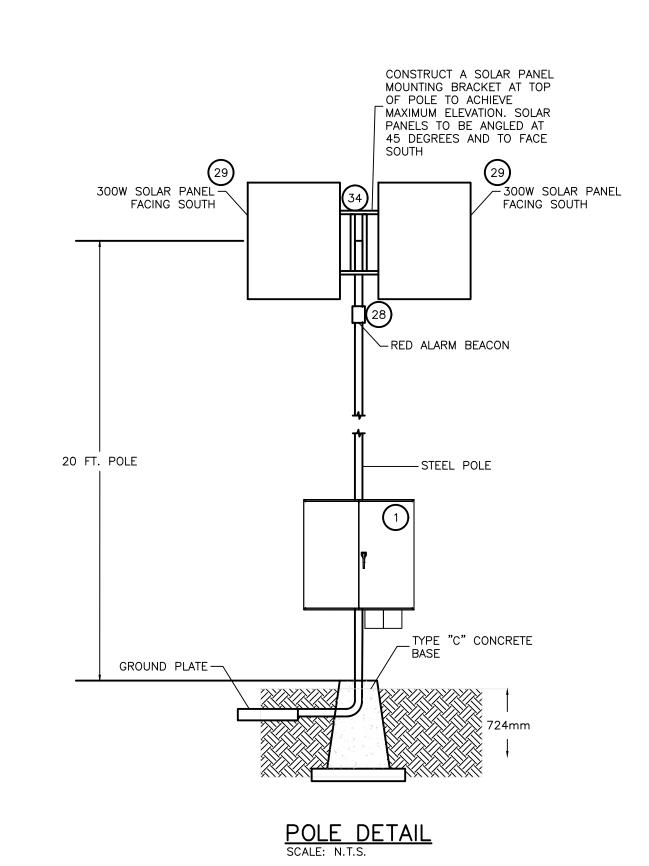


POLE AND BASE DETAILS

SCALE: N.T.S.

(DETAILS TO BE CONFIRMED)

PANEL A ↑ CCT1 ↑





2	MAR 23/18	ISSUED FOR TENDER	IS	TDU
1	MAR 14/18	ISSUED FOR REVIEW	IS	TDI
No.	DATE	DESCRIPTION	BY	APP'
		ISSUES / REVISIONS		

CONSULTANT SEAL



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BRALORNE
SANITARY SYSTEM
UPGRADES

ENCLOSURE AND WIRING DETAILS

SCALE	AS NOTE)		
DESIGN BY	IS			
DRAWN BY	IS			
DATE	FEB 2018			
PROJECT REFERENC	E No.	-		
DRAWING No.			SHEET	

649-015**E2**