

DATE: 2011-02-17, 13:27 FILE: G:\2011 Engineering\0700 - 0399\4717-01 Town Robb Ph 24 6 Engineering [in-house]\Cal 3D Files\4717 - Sheets - Phase 2.dwg McElhanney Civil A1 - 15-05-22

TOWN OF COMOX

CLIENT

ADDRESS / CONTACT INFO.

1809 BEAUFORT AVENUE
COMOX, BC
CANADA
V9M 1R9

PROJECT NAME

ROBB AVENUE UPGRADE - PHASE 2

DESCRIPTION

ROBB AVENUE WIDENING AND UPGRADING

McELHANNEY PROJECT

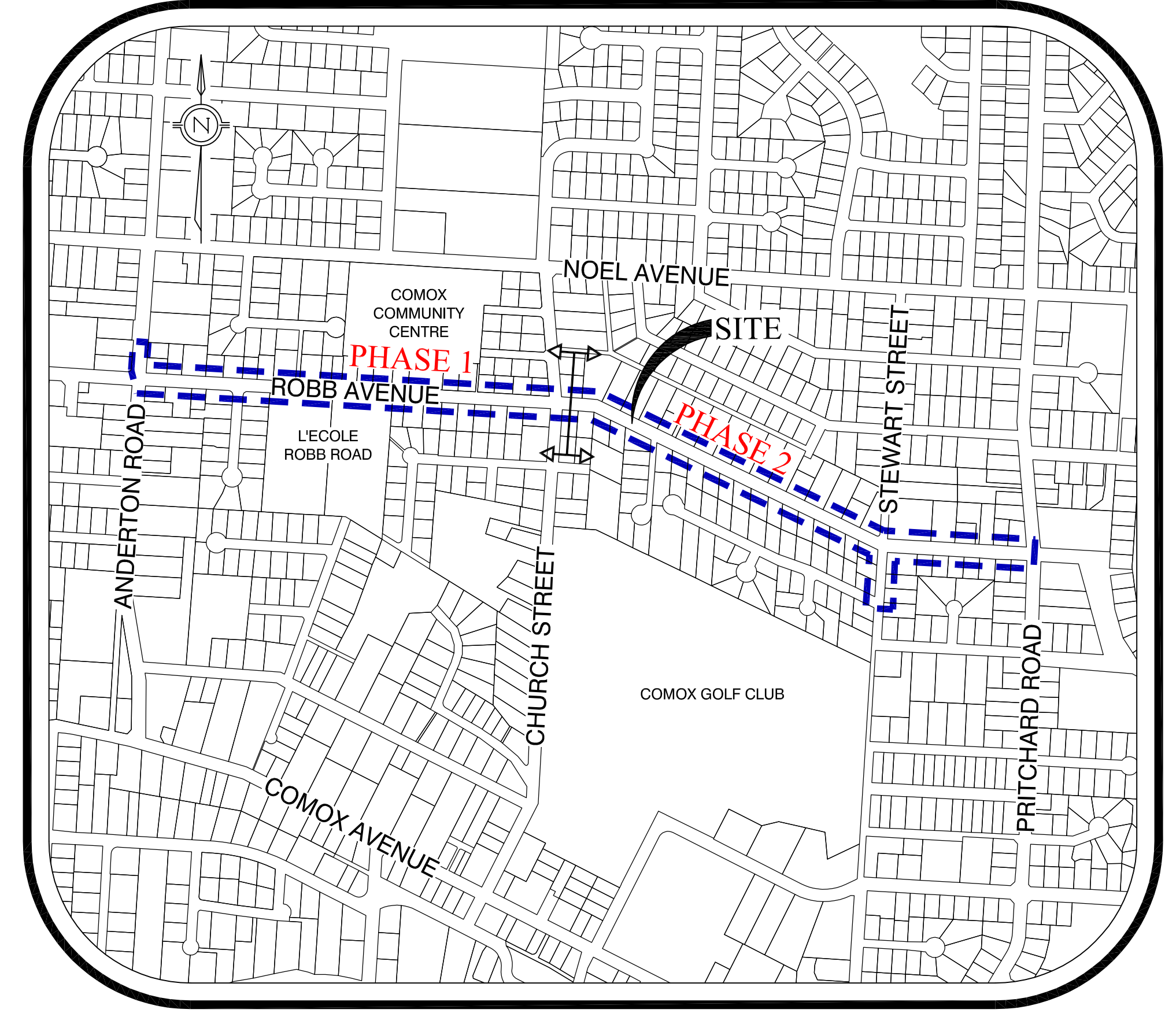
2211-47417-00

OTHER REFERENCE

TOWN OF COMOX FILE No. 5400

STATUS

ISSUED FOR TENDER



PROJECT LOCATION PLAN

DRAWING LIST

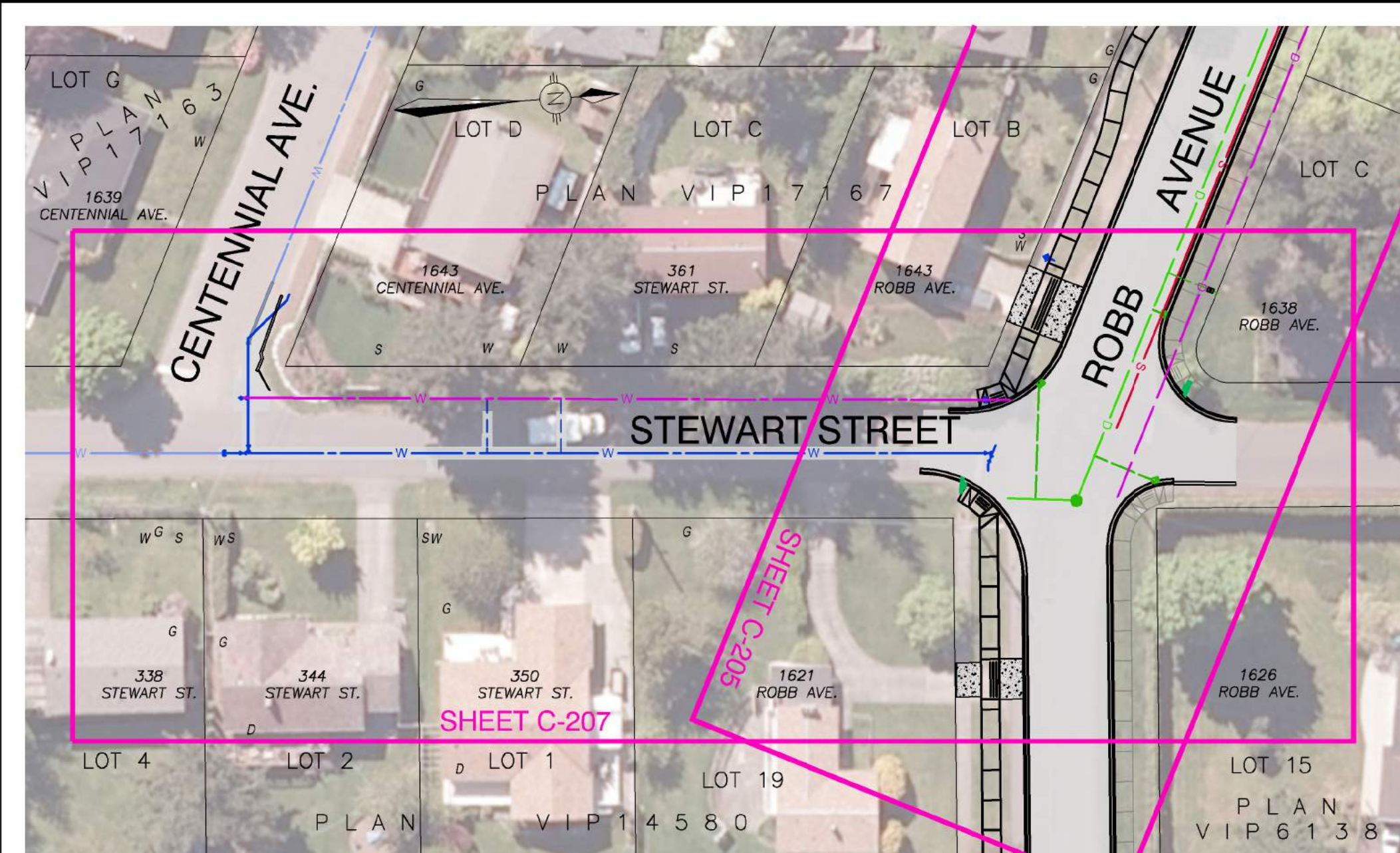
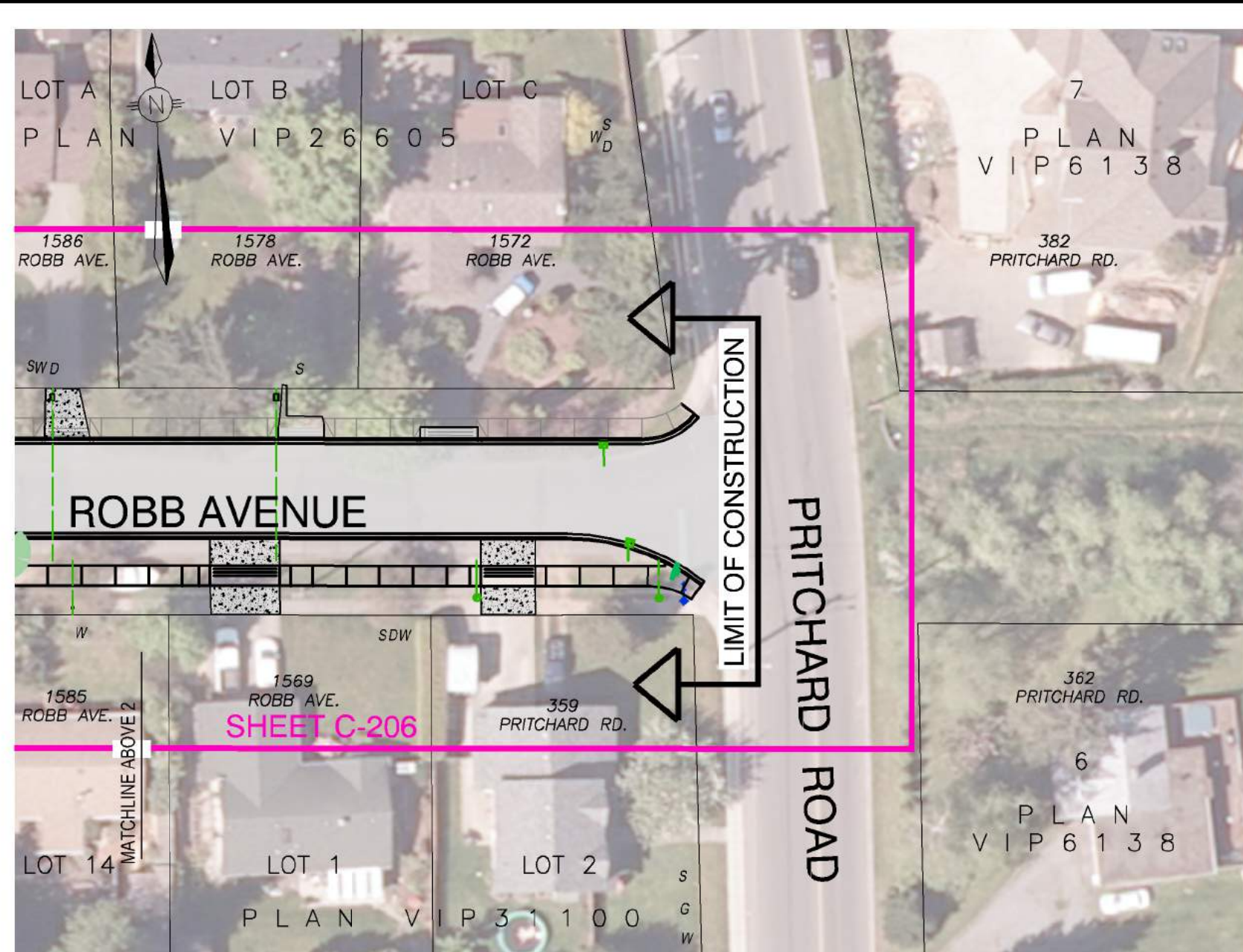
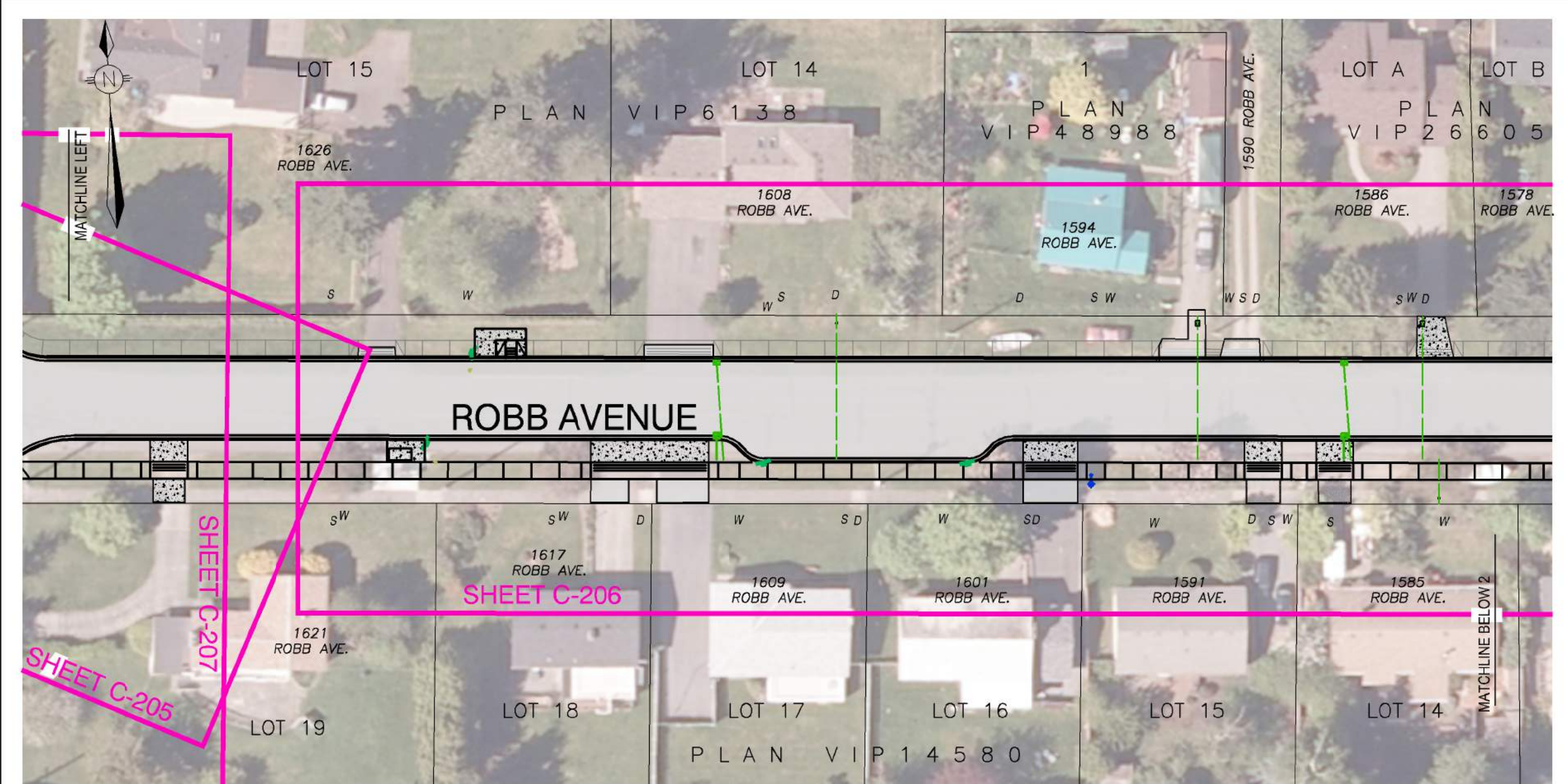
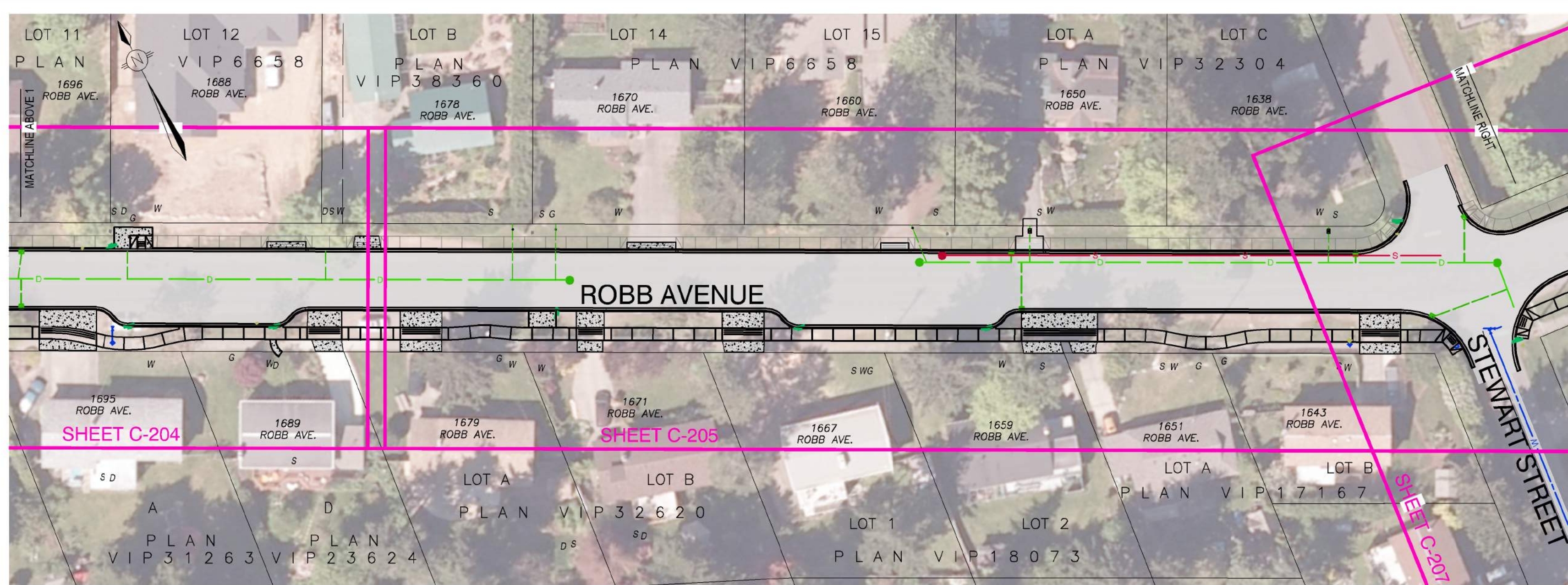
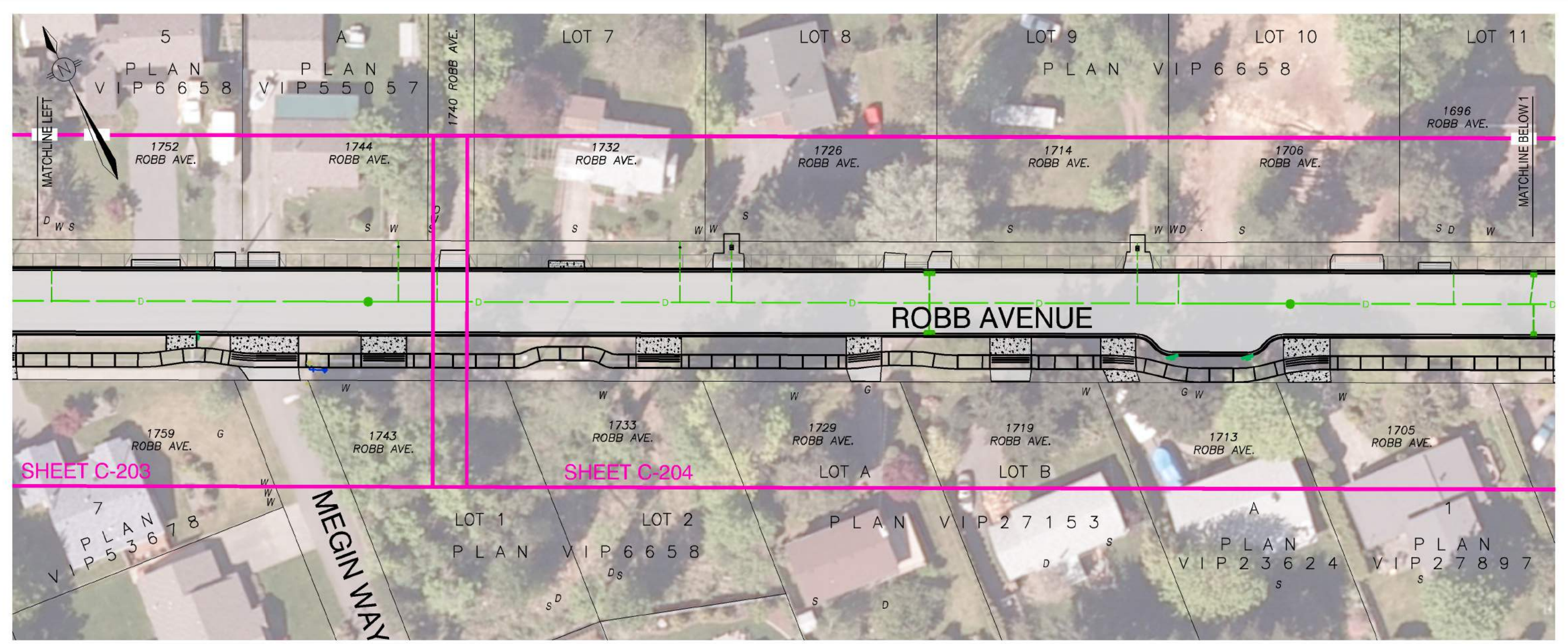
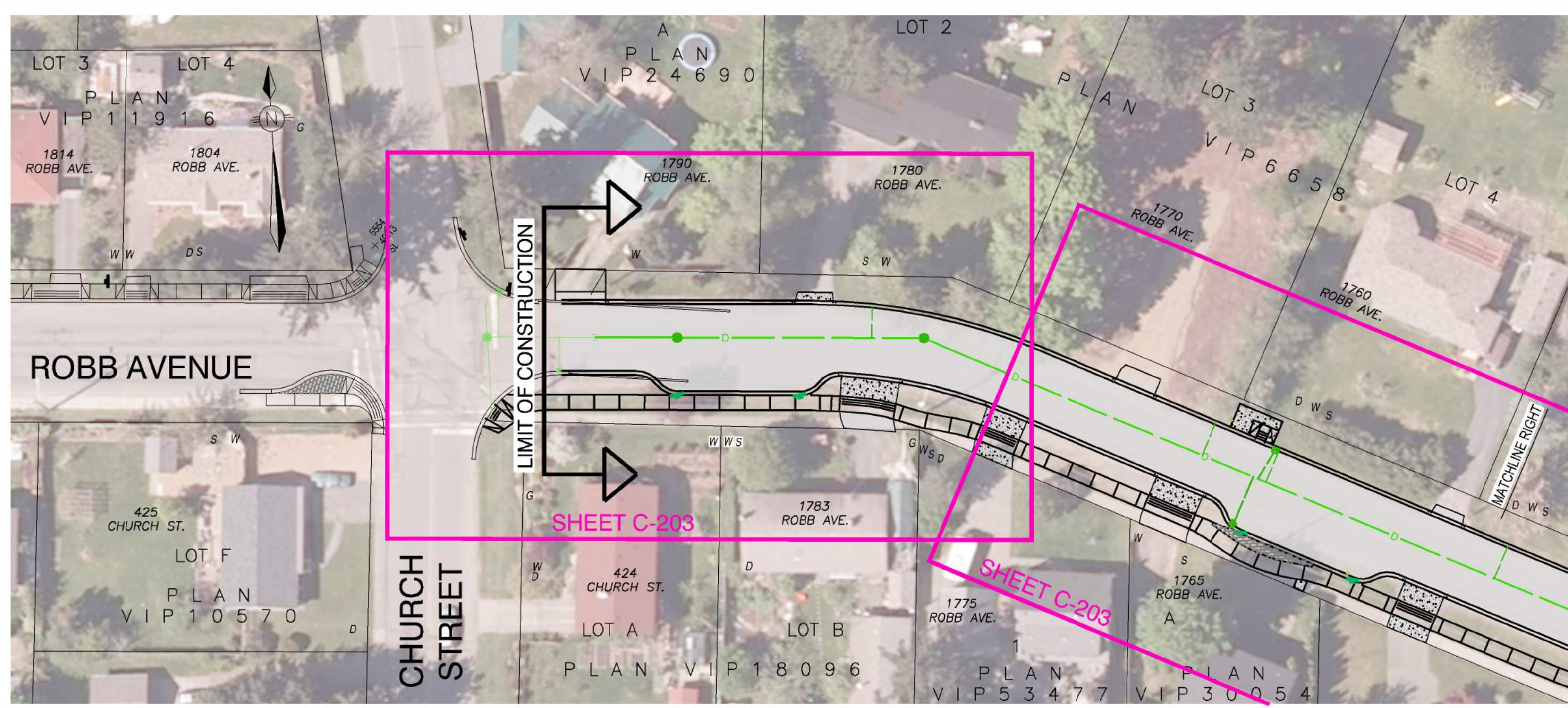
SHEET #	NAME	REVISIONS												
		PA	PB	PC	PD	0	1	2	3	4				
C-201-A	OVERALL SITE PLAN													
C-201-B	PROJECT NOTES													
C-202	REMOVALS PLAN													
C-203	PLAN / PROFILE - STA. 0+670 TO 0+825													
C-204	PLAN / PROFILE - STA. 0+825 TO 1+020													
C-205	PLAN / PROFILE - STA. 1+020 TO 1+215													
C-206	PLAN / PROFILE - STA. 1+215 TO 1+400													
C-207	STEWART STREET - PLAN / PROFILE													
C-208	TYP. SECTIONS & MISC. DETAILS 1													
C-209	MISCELLANEOUS DETAILS 2													
C-210	CURB RETURN DETAILS													
C-211	CROSS SECTIONS 1 - CHURCH STREET TO STEWART STREET													
C-212	CROSS SECTIONS 2 - STEWART STREET TO PRITCHARD ROAD													
C-213	SIGNANGE / LINE PAINTING PLAN													
C-214	STREET TREE PLANTING PLAN													



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EXISTING	DESCRIPTION	PROPOSED
	WATERMAIN	
	SANITARY SEWER	
	STORM SEWER	
	OPEN DITCH	
	PAVEMENT	
	CURB	
	SIDEWALK	
	FENCE	
	GASMAIN	
	WATER VALVE	
	HYDRANT ASSEMBLY	
	BLOW-OFF	
	MANHOLE	
	CLEANOUT	
	CATCH BASIN	
	UTILITY POLE	
	STREETLIGHT	

ELEVATIONS ARE GEODETIC AND ARE DERIVED FROM DUAL FREQUENCY GNSS OBSERVATIONS TO ACTIVE CONTROL STATIONS AT FORT ALBERNI AND QUADRA ISLAND.



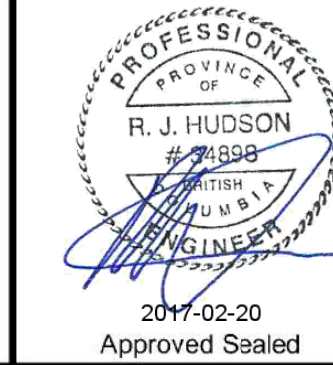
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ORIGINAL DWG SIZE: A1 (94 x 641mm)

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TOWN OF COMOX
1809 BEAUFORT AVENUE, COMOX, BC
ROBB AVENUE UPGRADE - PHASE 2
OVERALL SITE PLAN
ROBB AVENUE - CHURCH STREET TO PRITCHARD ROAD
COMOX, BC

Drawing No. **C-201-A**
Project Number 2211-47417-0
Rev. 0

GENERAL NOTES:

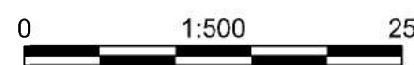
- ALL MATERIALS AND CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE TOWN OF COMOX SUBDIVISION AND DEVELOPMENT SPECIFICATIONS, INCLUDING AMMENDMENTS AND APPENDICES, UNLESS OTHERWISE NOTED ON THESE DRAWINGS.
- CONNECTIONS TO EXISTING MUNICIPAL INFRASTRUCTURE TO BE COORDINATED WITH THE TOWN OF COMOX (48 HOURS NOTICE REQUIRED).
- THE EXISTING UTILITIES SHOWN ON THESE DRAWINGS ARE BASED ON FIELD SURVEYS AND VARIOUS AS-CONSTRUCTED DRAWINGS. NO LIABILITY IS ASSUMED BY THE ENGINEER OR OWNER FOR THE ACCURACY AND COMPLETENESS OF THE INFORMATION PRESENTED. THE CONTRACTOR SHALL BE RESPONSIBLE TO ARRANGE FOR THE TOWN OF COMOX, BC HYDRO, TELUS, AND FORTIS BC TO LOCATE THEIR RESPECTIVE UTILITIES PRIOR TO CONSTRUCTION. CONTRACTOR TO INFORM THE ENGINEER OF ANY DISCREPANCIES WITHIN THESE PLANS PRIOR TO CONSTRUCTION.
- THE CONTRACTOR SHALL OBTAIN COPIES OF, AND SHALL FOLLOW THE PROCEDURES/GUIDELINES CONTAINED IN THE FEDERAL/PROVINCIAL DOCUMENT "LAND DEVELOPMENT GUIDELINES FOR THE PROTECTION OF AQUATIC HABITAT" (SEPT. '93), AND IN THE MINISTRY OF ENVIRONMENT'S "DEVELOPMENT WITH CARE" (MARCH '06).
- TOWN OF COMOX STORM DRAINAGE SYSTEM AND ADJACENT DITCHES TO BE PROTECTED FROM CONSTRUCTION SEDIMENTS. CONTRACTOR TO CLEAR ROADWAYS FROM ACCUMULATED GRAVELS AS REQUIRED BY TOWN OR PROJECT ENGINEER.
- ALL PROPOSED CONCRETE CURB TO BE 450mm WIDE BARRIER CURB AS PER TOWN OF COMOX STANDARD DRAWING SC-7 UNLESS OTHERWISE NOTED.
- ALL PROPOSED CONCRETE BARRIER CURB LETDOWNS TO MATCH EXISTING DRIVEWAY WIDTHS UNLESS OTHERWISE NOTED.
- EXISTING EDGE OF ASPHALT SHALL BE SAW-CUT IN LONG, STRAIGHT LINES AS REQUIRED PRIOR TO PAVING. MAINTAIN SAW-CUT 600mm CLEAR OF PROPOSED CURBING; WHERE EXISTING ASPHALT THICKNESS AT TIE-IN IS EQUAL TO OR GREATER THAN 75mm, A 300mm WIDE x 50mm DEPTH STEP-JOINT IS REQUIRED.
- ALL DISTURBED AREAS TO BE RESTORED TO EQUAL OR BETTER CONDITION THAN EXISTING.
- STORM SEWERS AS INDICATED ARE PVC PIPE, 150ø = SDR28, 200ø = DR35, > 300ø = ULTRA-RIB CLASS V OR BETTER (STIFFNESS > 46PSI). IF CONTRACTOR ELECTS TO USE CONCRETE IT MUST CONFORM TO ASTM C76 CLASS 3 OR BETTER.
- SANITARY SEWERS AS INDICATED ARE PVC PIPE, 150ø = SDR28, 200ø = DR35.
- ALL ø100mm SANITARY SERVICES AND ø150mm STORM SERVICES TO BE SDR28 PVC PIPE (INCLUDING SERVICE CONNECTION PIPES). STORM SERVICE TO BE INSTALLED @ MINIMUM 2.0% GRADE. SANITARY SERVICES MAY BE INSTALLED AT 2.0% GRADE OR MORE TO ACHIEVE THE SERVICE INVERT ELEVATIONS SHOWN ON THESE PLANS.
- SANITARY AND STORM SERVICE CONNECTIONS TO BE CONSTRUCTED TO TOWN OF COMOX STANDARDS COMPLETE WITH CONCRETE BOX / STEEL LID WHERE INDICATED.
- SINGLE CATCHBASIN LEADS TO BE 150mm DIA. AND DOUBLE CATCHBASIN LEADS TO BE 200mm DIA. WITH 150mm DIA. LEAD CONNECTING DOUBLE CATCHBASINS.
- ALL NEW SANITARY AND STORM MAIN SHALL BE VIDEO INSPECTED. VIDEO INSPECTION OF SANITARY AND STORM SERVICES IS NOT REQUIRED.
- ALL COUPLINGS USED IN THE REPAIR, EXTENSION OR INSTALLATION OF SANITARY, STORM AND CATCHBASIN LEADS SHALL BE THOSE THAT UTILIZE A STAINLESS STEEL SHEAR BAND. USE OF ALL-RUBBER COUPLINGS IS NOT ACCEPTABLE.
- ALL EXISTING SIGN LOCATIONS TO BE RECORDED IN THE FIELD PRIOR TO SIGN REMOVAL. ALL SIGNS TO BE RE-INSTALLED AT EXISTING LOCATIONS UNLESS OTHERWISE NOTED.
- THERMOPLASTIC PAINT TO BE PLACED PER MoT STANDARDS. ALL PAINT LINES TO BE THERMOPLASTIC.
- ALL METAL CASTINGS FOR UNDERGROUND INFRASTRUCTURE (IE MANHOLES, WATER VALVES, CATCHBASINS, ETC) TO BE RAISED TO SUIT FINAL PAVEMENT GRADES. RAISING CATCH BASIN GRATES TO INCLUDE REMOVING AND REPLACING SHORT SECTIONS OF Ex. CURB IF REQUIRED.
- ALL EXISTING MATERIALS (MAN-HOLE CASTINGS, VALVE BOXES, ETC.) RENDERED SURPLUS THROUGH CONSTRUCTION TO BE RETURNED TO THE TOWN OF COMOX PUBLIC WORKS YARD UPON CONFIRMATION OF DESIRE TO RETAIN.
- ANY DAMAGES CAUSED TO EXISTING PRIVATE IRRIGATION SYSTEMS TO BE REPAIRED/RESTORED BY THE CONTRACTOR. CONTRACTOR TO VERIFY POTENTIAL IRRIGATION LOCATIONS PRIOR TO CONSTRUCTION.
- CONTRACTOR SHALL PROVIDE EMERGENCY ACCESS TO PROPERTIES AT ALL TIMES DURING CONSTRUCTION.
- UNINTERRUPTED PEDESTRIAN ACCESS TO/FROM ALL PROPERTIES TO BE MAINTAINED THROUGH CONSTRUCTION.
- CONTRACTOR TO PROVIDE VEHICULAR ACCESS TO ALL PROPERTIES AT THE END OF DAILY CONSTRUCTION.
- CONTRACTOR TO PROVIDE TRAFFIC CONTROL SIGNAGE/PERSONNEL AS REQUIRED.
- ALL TRAFFIC SIGNAGE TO BE AS PER THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES FOR CANADA (CURRENT EDITION.)
- CONTRACTOR TO VERIFY THAT SITE SAFETY FOR VEHICLE OPERATORS AND PEDESTRIANS IS MAINTAINED FROM THE END OF EACH WORK DAY, THROUGH THE NIGHT, AND UNTIL THE START OF NEXT WORK DAY BY USING FLASHING BEACONS, BARRICADES, SIGNAGE, DELINEATORS ETC., IN ACCORDANCE WITH CURRENT MOT CONSTRUCTION ZONE SIGNAGE STANDARDS. CONTRACTOR TO PREPARE AND SUBMIT A PROJECT TRAFFIC MANAGEMENT PLAN (SIGNED BY A PROFESSIONAL TRAFFIC ENGINEER) FOR APPROVAL, PRIOR TO CONSTRUCTION.
- CONTRACTOR TO ERECT ALL APPROPRIATE CONSTRUCTION ZONE SIGNAGE AND USE CERTIFIED FLAG PERSONNEL TO MAINTAIN SAFE AND EFFICIENT TRAFFIC FLOW THRU & AROUND THE WORK SITE.
- CONTRACTOR TO BE NOTIFIED IN WRITING BY THE PROJECT ENGINEER PRIOR TO COMMENCEMENT OF WORK THAT THE CONTRACTOR WILL ASSUME "PRIME CONTRACTOR" STATUS AND WILL BE RESPONSIBLE FOR ALL MULTIPLE WORK PLACE SAFETY RESPONSIBILITIES FOR WORKERS IN ACCORDANCE WITH WCB-OHS REGULATIONS.
- CONTRACTOR TO NOTIFY ALL EMERGENCY SERVICE AGENCIES, BC TRANSIT AND THE WASTE REMOVAL CONTRACTOR OF THE SUBSEQUENT WORK ZONE AREA, SPEED REDUCTIONS, OR DETOURS WHICH MAY EFFECT TRAFFIC FLOW.
- CONTRACTOR TO HAVE A PRECONSTRUCTION MEETING AND NOTIFY THE TOWN/ENGINEER ONE (1) WEEK PRIOR TO BEGINNING WORK.
- CONTRACTOR TO ARRANGE FOR OBSERVATION OF ALL KEY UNDERGROUND ASPECTS OF THE WORK PRIOR TO BACKFILL. ALL REQUESTS FOR FIELD CHANGES TO BE MADE TO THE ENGINEER FOR REVIEW. PAVEMENT OVERLAY MAY NOT PROCEED WITHOUT EXPRESS WRITTEN CONSENT OF THE ENGINEER.
- CONTRACTOR TO ARRANGE FOR WORKS IN OR ABOUT Ex. UTILITY POLES AND GUY WIRES WITH BC HYDRO. UPON AWARD OF CONTRACT, THE CONTRACTOR MUST CONTACT B.C. HYDRO, 897-7400, AND SUBMIT A PROPOSED CONSTRUCTION SCHEDULE TO BC HYDRO.

WATER NOTES:

- ALL WATER FITTINGS TO BE RESTRAINED AS PER MCMC STANDARDS.
- ALL WATERMAIN PIPES TO BE C-900 PVC (DR18). ALL WATER SERVICE PIPES TO BE TYPE K COPPER
- ALL WATERMANS TO BE INSTALLED WITH MINIMUM 1.0m COVER OR AS SHOWN IN THE PROJECT DRAWINGS.
- WATERMAIN DEFLECTIONS TO BE PROVIDED BY WAY OF 2" MAXIMUM DEFLECTIONS AT EACH GASKETED JOINT. IF PROFILE OR HORIZONTAL ALIGNMENT PRECLUDES GRADUAL BENDS, THEN 5" MANUFACTURED BENDS TO BE UTILIZED. ALL VALVE RISERS TO BE INSTALLED VERTICALLY.
- WHERE LESS THAN 3.0m HORIZONTAL SEPARATION BETWEEN WATER AND SANITARY OR STORM SEWER, OR LESS THAN 0.5m VERTICAL CLEARANCE, WATERMAIN JOINTS TO BE WRAPPED WITH PETROLATUM TAPE IN ACCORDANCE WITH ANSI/AWWA STANDARDS C209 AND C217-90. WATERMANS SHOULD BE LAID WITH THE MIDDLE OF THE PIPE LENGTH LOCATED AT THE CROSSING POINT OF STORM AND SANITARY SEWERS.
- WATER WORKS TO BE CONSTRUCTED, TESTED, DISINFECTED, AND FLUSHED PRIOR TO CONNECTION TO TOWN OF COMOX SYSTEM. CO-ORDINATE WITH TOWN FOR FINAL TIE-INS.
- SUBMISSION OF BACTERIAL TEST INDICATING NO CONTAMINATION BY FECAL OR TOTAL COLIFORM IS REQUIRED PRIOR TO INTERCONNECTION TO THE EXISTING TOWN OF COMOX WATER SYSTEM.
- WATER MAIN TIE-INS TO EXISTING SHALL BE COMPLETED BY THE CONTRACTOR (UTILIZING MATERIALS SUPPLIED BY THE CONTRACTOR) UNDER THE SUPERVISION OF VILLAGE STAFF.
- BLOW-OFFS, VALVES AND FITTINGS RENDERED SURPLUS THROUGH CONSTRUCTION SHALL BE RETURNED TO THE PUBLIC WORKS YARD.

RESTORATION NOTES:

- PAVEMENT AREAS:
 - GRIND EDGE OF TRENCH MIN. 500mm BACK OF TRENCH WALL AND 300mm FROM ANY BROKEN OR DAMAGED EDGES.
 - ROBB AVENUE
 - BACKFILL WITH 230mm PIT-RUN GRAVEL COMPACTED TO 95% MODIFIED PROCTOR DENSITY.
 - TOP WITH 100mm - 20mm CRUSHED GRAVEL COMPACTED TO 95% MODIFIED PROCTOR DENSITY
 - PLACE 75mm OF HOT-MIX ASPHALT.
 - STEWART STREET
 - BACKFILL WITH 230mm PIT-RUN GRAVEL COMPACTED TO 95% MODIFIED PROCTOR DENSITY.
 - TOP WITH 75mm - 20mm CRUSHED GRAVEL COMPACTED TO 95% MODIFIED PROCTOR DENSITY
 - PLACE 50mm OF HOT-MIX ASPHALT.
- BOULEVARD AREAS:
 - RESTORE ALL TOPSOIL, TURF, LANDSCAPING, RETAINING WALLS, ETC. TO A CONDITION EQUAL TO OR BETTER THAN EXISTED PRIOR TO CONSTRUCTION (MIN. 75mm TOPSOIL AND HYDROSEED). DRIVEWAYS TO BE SAWCUT AND RESTORED OVER A MINIMUM CUT WIDTH PER SHEET C-208, WITH GRAVEL BASE AND SURFACING MATERIAL TO MATCH EXISTING.

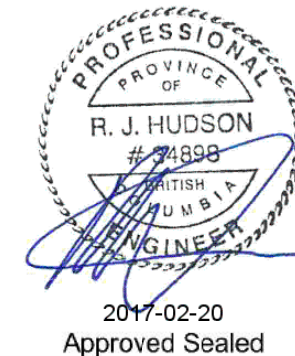


ORIGINAL DWG SIZE: A1 (594 x 841mm)



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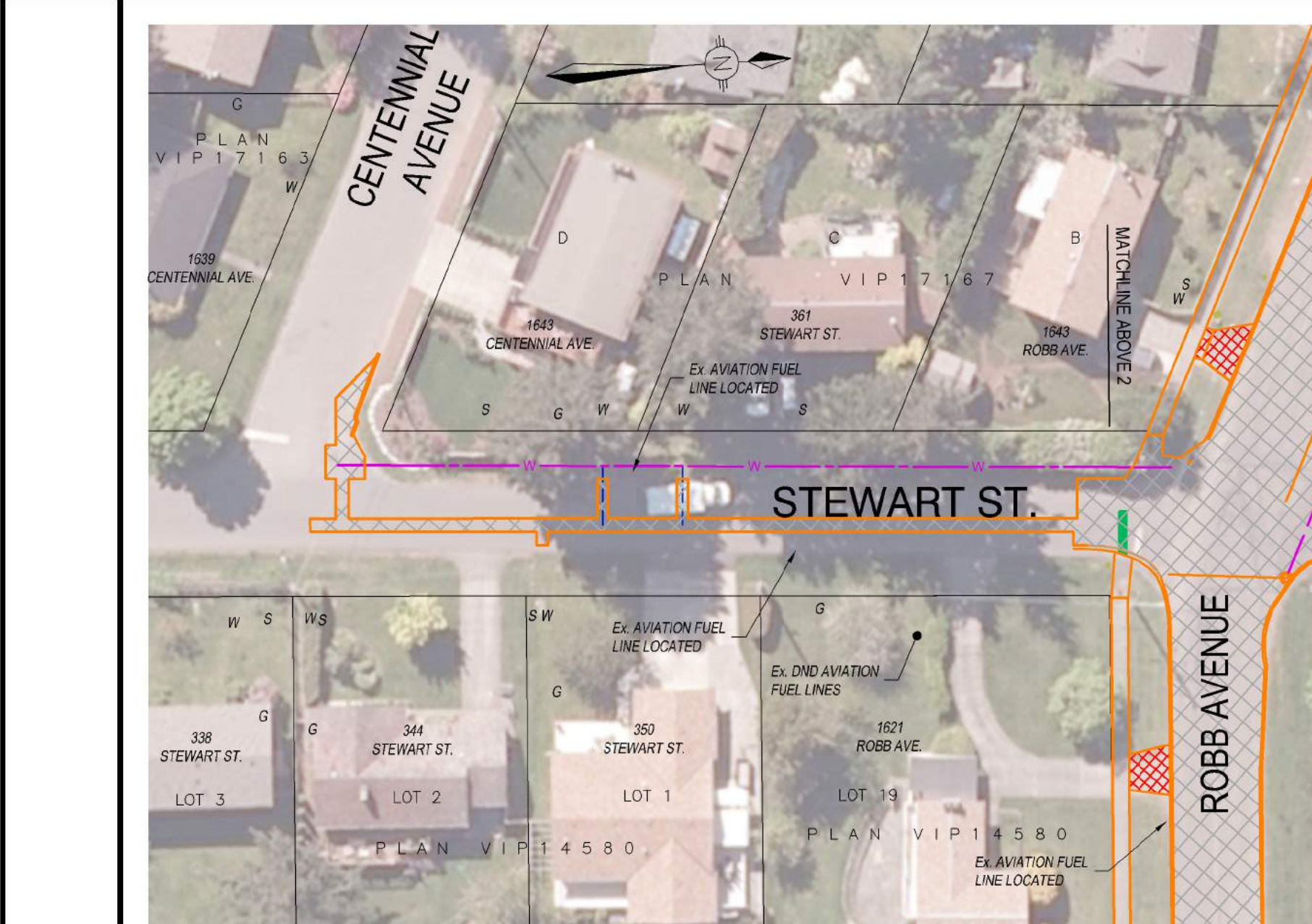
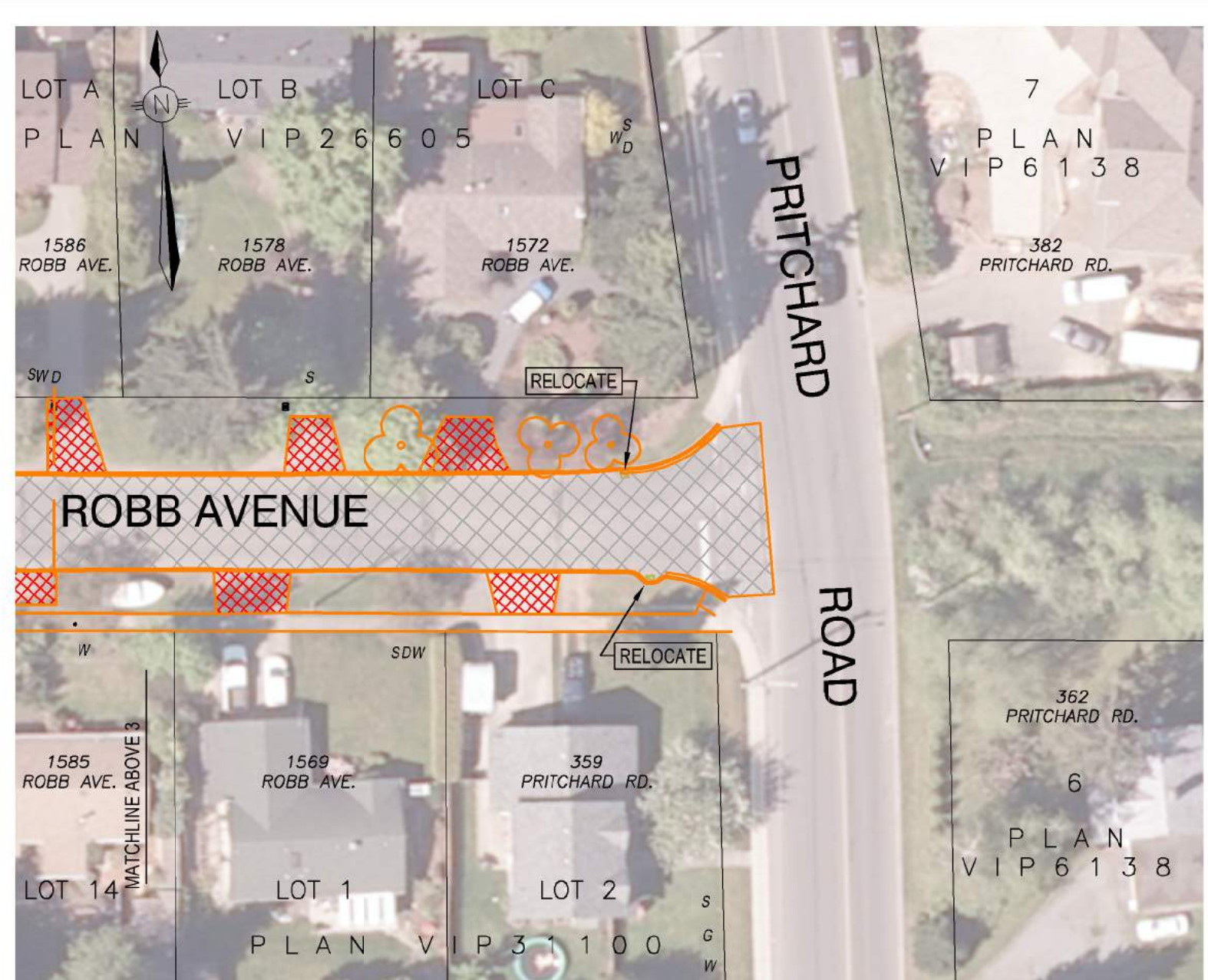
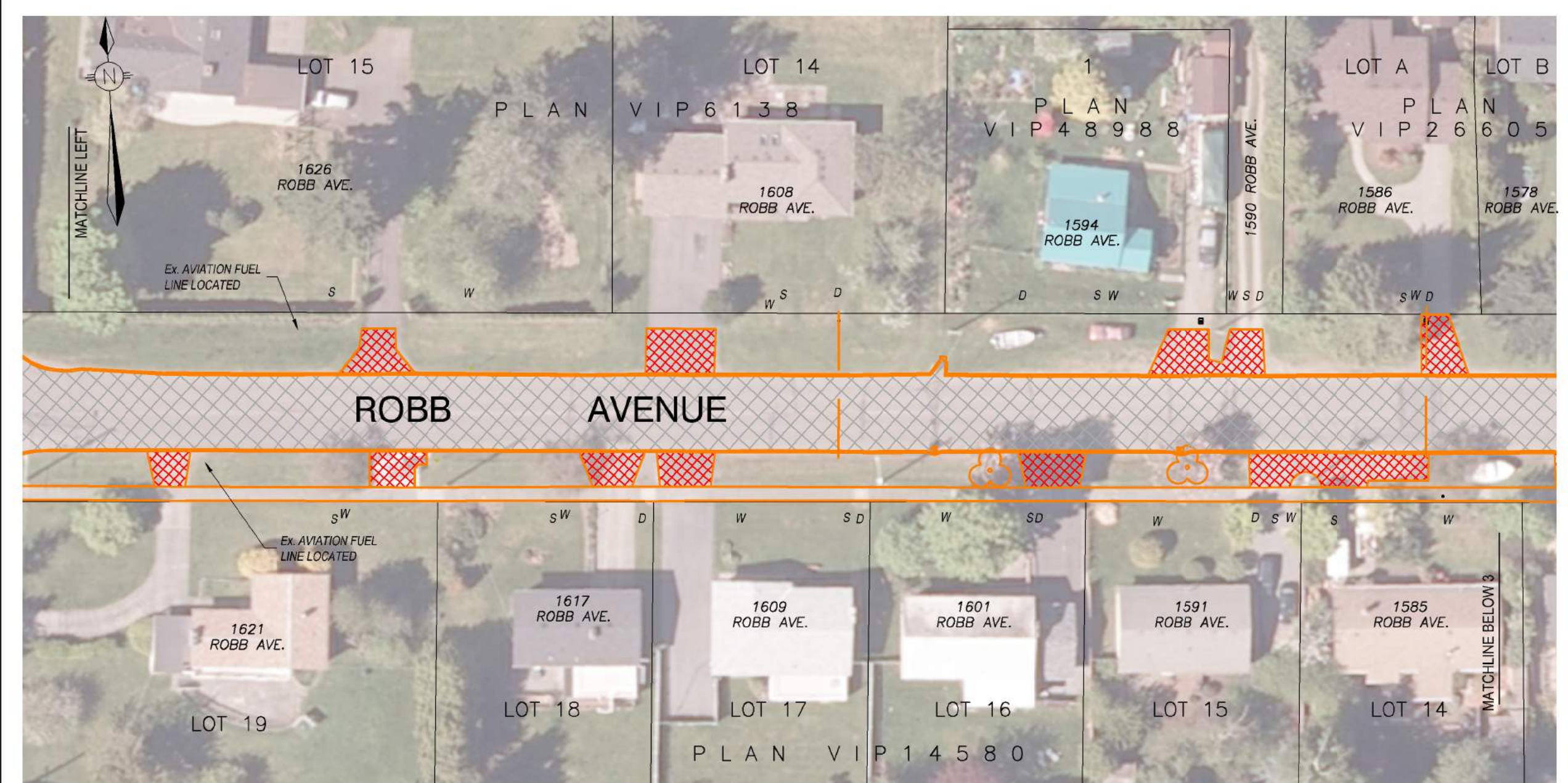
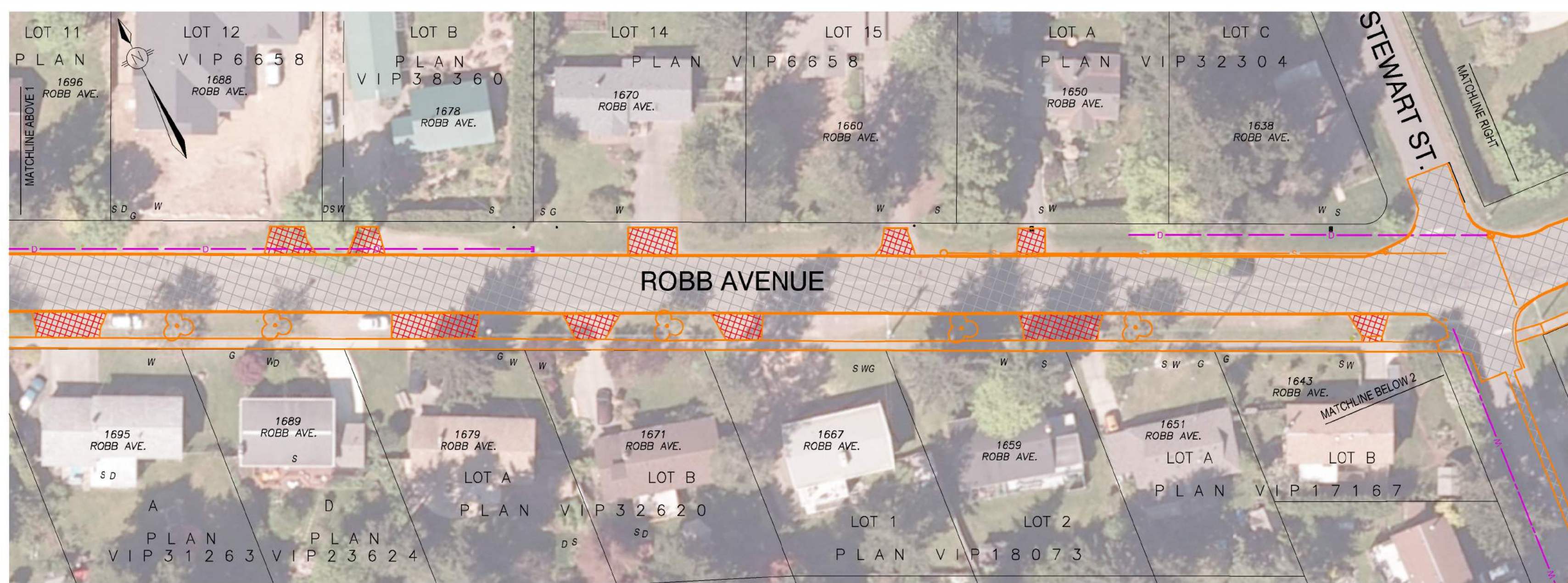
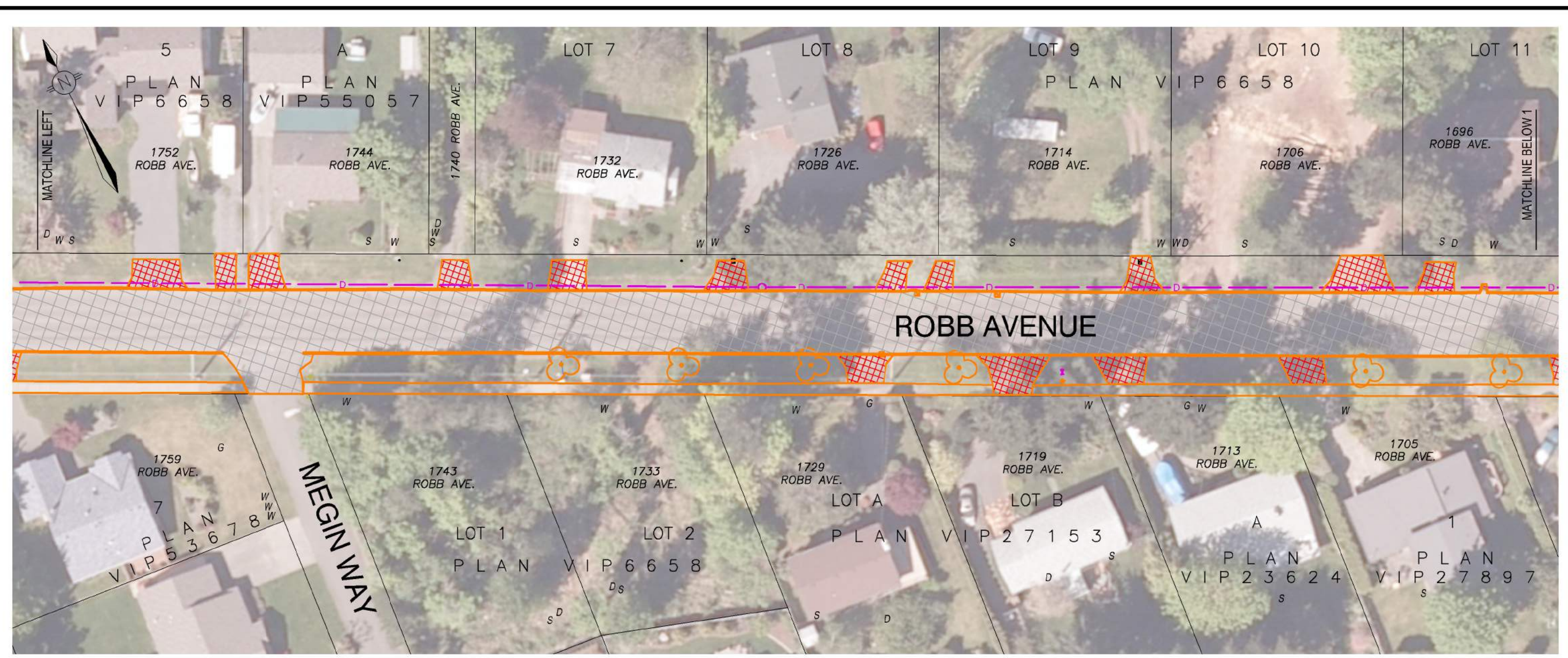
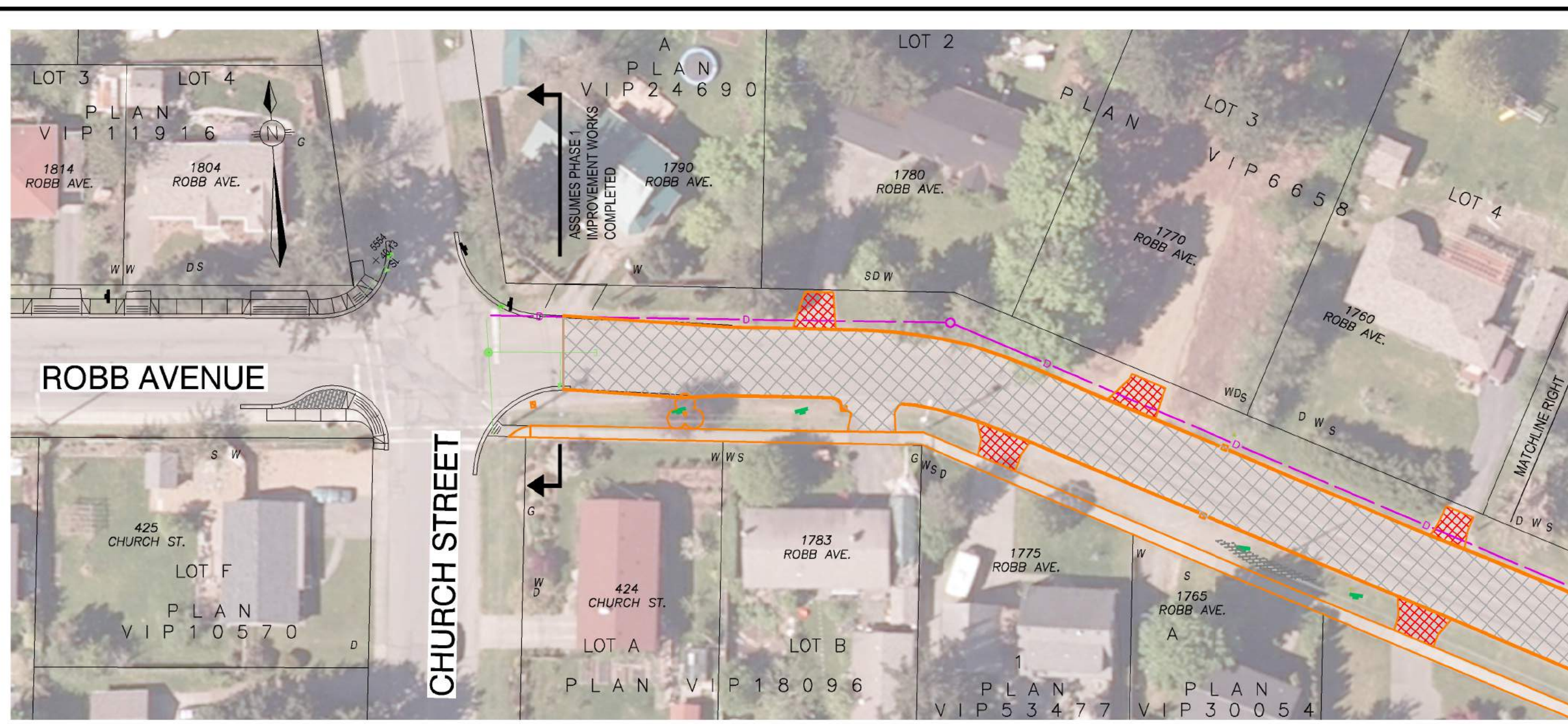
TOWN OF COMOX
1808 BEAUFORT AVENUE, COMOX, BC

ROBB AVENUE UPGRADE - PHASE 2 PROJECT NOTES

ROBB AVENUE - CHURCH STREET TO PRITCHARD ROAD
COMOX, BC

Drawing No.	
C-201-B	
Project Number	Rev.
2211-47417-0	0

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THIS PLAN IS INTENDED TO PROVIDE THE CONTRACTOR WITH A GENERAL UNDERSTANDING OF THE REMOVALS, RELOCATIONS, AND ABANDONING REQUIREMENTS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO FAMILIARIZE THEMSELVES WITH EXISTING SITE CONDITIONS. ANY REMOVALS, RELOCATIONS, AND ABANDONING NOT EXPLICITLY IDENTIFIED ON THIS PLAN WILL BE CONSIDERED INCIDENTAL TO THE CONTRACT.

NOTES:

- ALL STORM MANHOLES TO BE ABANDONED ARE TO:
 - HAVE THE FRAME/CASTING AND LID REMOVED;
 - HAVE ALL INLETS/OUTLETS PLUGGED WITH NO-SHRINK CONCRETE;
 - BE FILLED WITH PIT RUN GRAVEL COMPACTED TO 95% MODIFIED PROCTOR DENSITY; AND,
 - BE PAVED / LANDSCAPED OVER.
- UP / DOWN STREAM OF EXISTING STORM SERVICE AND CATCH BASIN LEAD CONNECTION TO ABANDONED STORM MAIN TO BE CAPPED WITH NO-SHRINK CONCRETE.
- HEDGE REMOVAL OR TRIMMING MAY BE REQUIRED ALONG LOTS FRONTING THE PROJECT. SUCH EFFORT WILL BE CONSIDERED INCIDENTAL TO THE CONTRACT.
- LANDSCAPING REMOVAL EXPECTED ALONG ALL FRONTAGES. CONTRACTOR TO COORDINATE IRRIGATION REMOVAL (IF PRESENT) WITH HOMEOWNERS PRIOR TO WORK WITHIN EXISTING LANDSCAPING AREAS.
- ALL ROAD SIGNS TO BE RELOCATED:
 - ARE TO HAVE EXISTING LOCATION NOTED IN FIELD.
 - ARE TO BE REVIEWED BY A TOWN PUBLIC WORKS REPRESENTATIVE, FOR SUITABILITY, PRIOR TO STORAGE.
 - ARE TO BE STORED IN A SECURE LOCATION TO PREVENT THEFT AND DAMAGE.

SEE MCSL ROBB AVENUE UPGRADE - ANDERTON ROAD TO PRITCHARD ROAD GEOTECHNICAL REPORT DATED NOVEMBER 25, 2015, SECTIONS 7.2 & 7.3 - OPTION 2, FOR SUB-GRADE DENSIFICATION & PARTIAL DEPTH REMEDIATION REQUIREMENTS.

SEE TREE ASSESSMENT FOR ROBB AVENUE UPGRADE: ANDERTON ROAD TO PRITCHARD ROAD ADDENDUM, DESIGN CHANGE FROM CHURCH ST. TO PRITCHARD RD., DATED JANUARY 12, 2016, AS PREPARED BY STRATEGIC NATURAL RESOURCE CONSULTING INC., FOR PROJECT TREE IMPACT ASSESSMENT AND RECOMMENDATIONS.

NOTWITHSTANDING THE CONTENTS OF THIS REPORT, THE CONTRACTOR SHALL MAKE HIS OWN ASSESSMENT OF REQUIRED TREE / HEDGE REMOVALS AND INCLUDE THIS EFFORT WITH THE TENDER PRICE. NOTE THAT THE CONTRACTOR MUST RATIONALLY ALL TREE / HEDGE REMOVALS (IN WRITING) AND SUBMIT TO THE PROJECT ENGINEER FOR APPROVAL, PRIOR TO UNDERTAKING THE WORK.

LEGEND

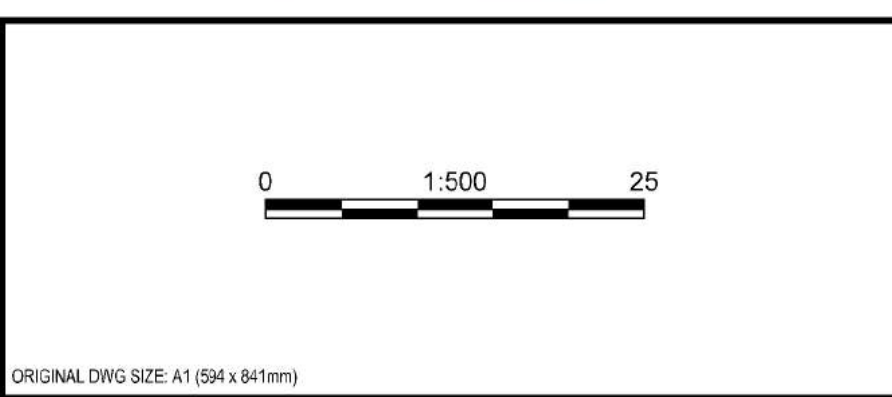
EXISTING	DESCRIPTION	PROPOSED	EXISTING	DESCRIPTION	PROPOSED
	WATERMAIN			WATER VALVE	
	SANITARY SEWER			HYDRANT ASSEMBLY	
	STORM SEWER			BLOW-OFF	
	OPEN DITCH			MANHOLE	
	PAVEMENT			CLEANOUT	
	CURB			CATCH BASIN	
	SIDEWALK			UTILITY POLE	
	FENCE			STREETLIGHT	
	GASMAIN				

BC 1 CALL
1-800-474-6886

Rev	Date	Description	Drawn	Design	App'd
0	2017-02-20	ISSUED FOR TENDER	CDE	CDE	DJ
PB	2016-02-23	ISSUED FOR 95% COMPLETION REVIEW	CDE	CDE	DJ
PA	2016-01-25	ISSUED FOR 75% COMPLETION REVIEW	CDE	CDE	DJ

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PROFESSIONAL
REGISTERED
ENGINEER
R. J. HUDSON
2017-02-20
Approved Sealed

TOWN OF COMOX
1809 BEAUFORT AVENUE, COMOX, BC

**ROBB AVENUE UPGRADE - PHASE 2
REMOVALS PLAN**

ROBB AVENUE - CHURCH STREET TO PRITCHARD ROAD
COMOX, BC

Drawing No. **C-202**

Project Number **2211-47417-0** Rev. **0**