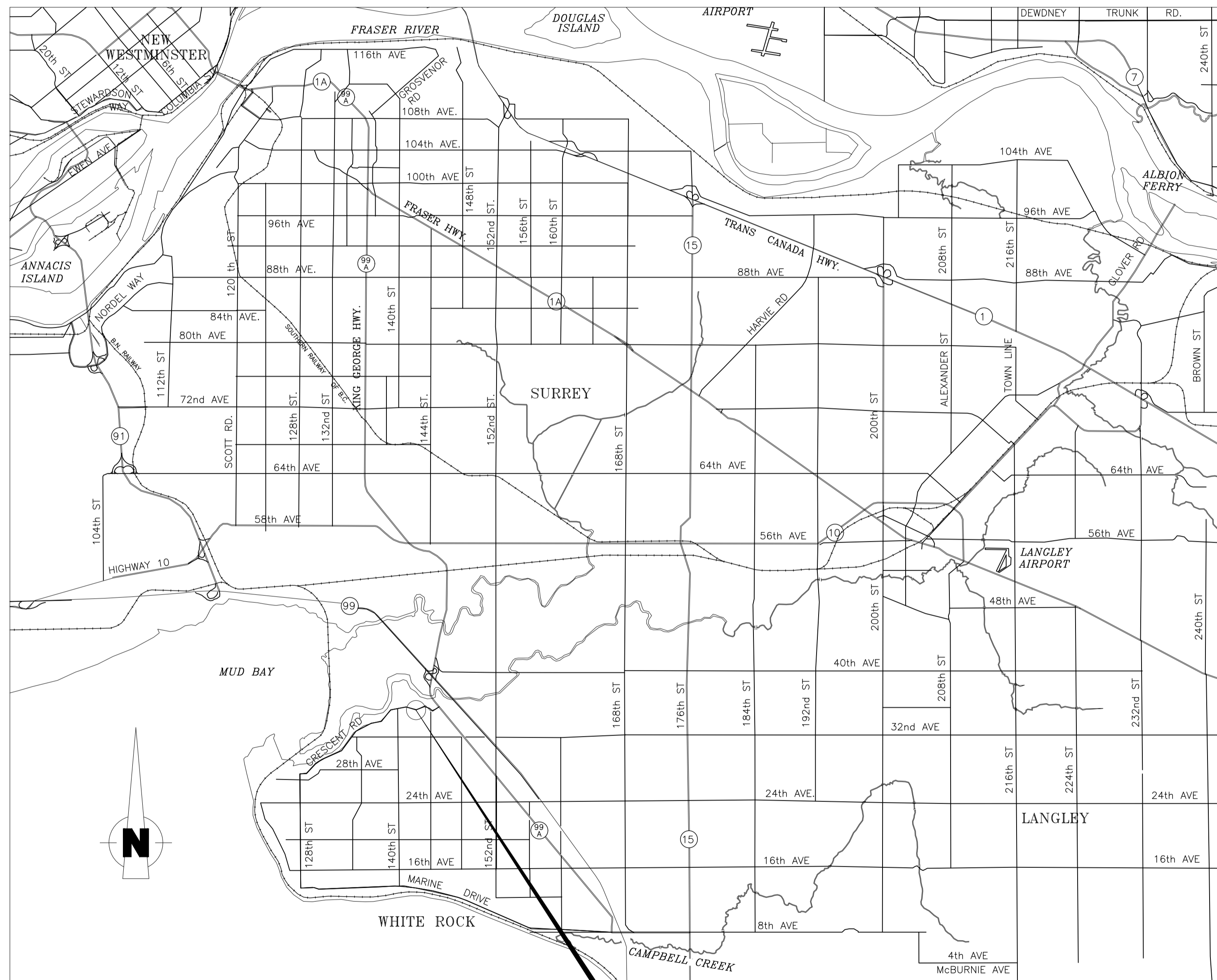


# ELGIN HALL PARKING UPGRADE

14250 CRESCENT ROAD, SURREY, BC

## DRAWING SCHEDULE

DRAWING	SHEET NUMBER	DRAWING TITLE
<b>CIVIL</b>		
31566_C01	1 OF 19	COVER SHEET AND GENERAL NOTES
31566_C02	2 OF 19	GRADING PLAN
31566_C03	3 OF 19	SITE SERVICING PLAN
31566_C04	4 OF 19	LINE MARKING AND PARKING LAYOUT
31566_C05	5 OF 19	DETAILS
<b>LIGHTING</b>		
31566_06	6 OF 19	LIGHTING
<b>LANDSCAPING</b>		
31566_L00	7 OF 19	LANDSCAPE COVER SHEET
31566_L01	8 OF 19	LANDSCAPE NOTES
31566_L02	9 OF 19	LANDSCAPE PLAN
31566_L03	10 OF 19	LANDSCAPE PLAN - WEST
31566_L04	11 OF 19	LANDSCAPE PLAN - EAST
31566_L05	12 OF 19	LANDSCAPE PLANTING DETAILS
31566_L06	13 OF 19	LANDSCAPE PLANTING DETAILS
31566_L07	14 OF 19	LANDSCAPE PLANTING DETAILS
<b>EROSION AND SEDIMENT CONTROL</b>		
31566_ESC01	15 OF 19	GENERAL NOTES
31566_ESC02	16 OF 19	PHASE 1 - SITE PREPARATION, STRIPPING AND GRUBBING
31566_ESC03	17 OF 19	PHASE 2 - SITE SERVICING AND PARKING LOT CONSTRUCTION
31566_ESC04	18 OF 19	PHASE 3 - PAVING AND LANDSCAPING
31566_ESC05	19 OF 19	DETAILS



**SITE LOCATION PLAN**

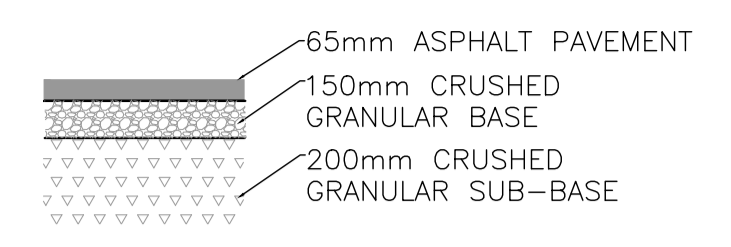
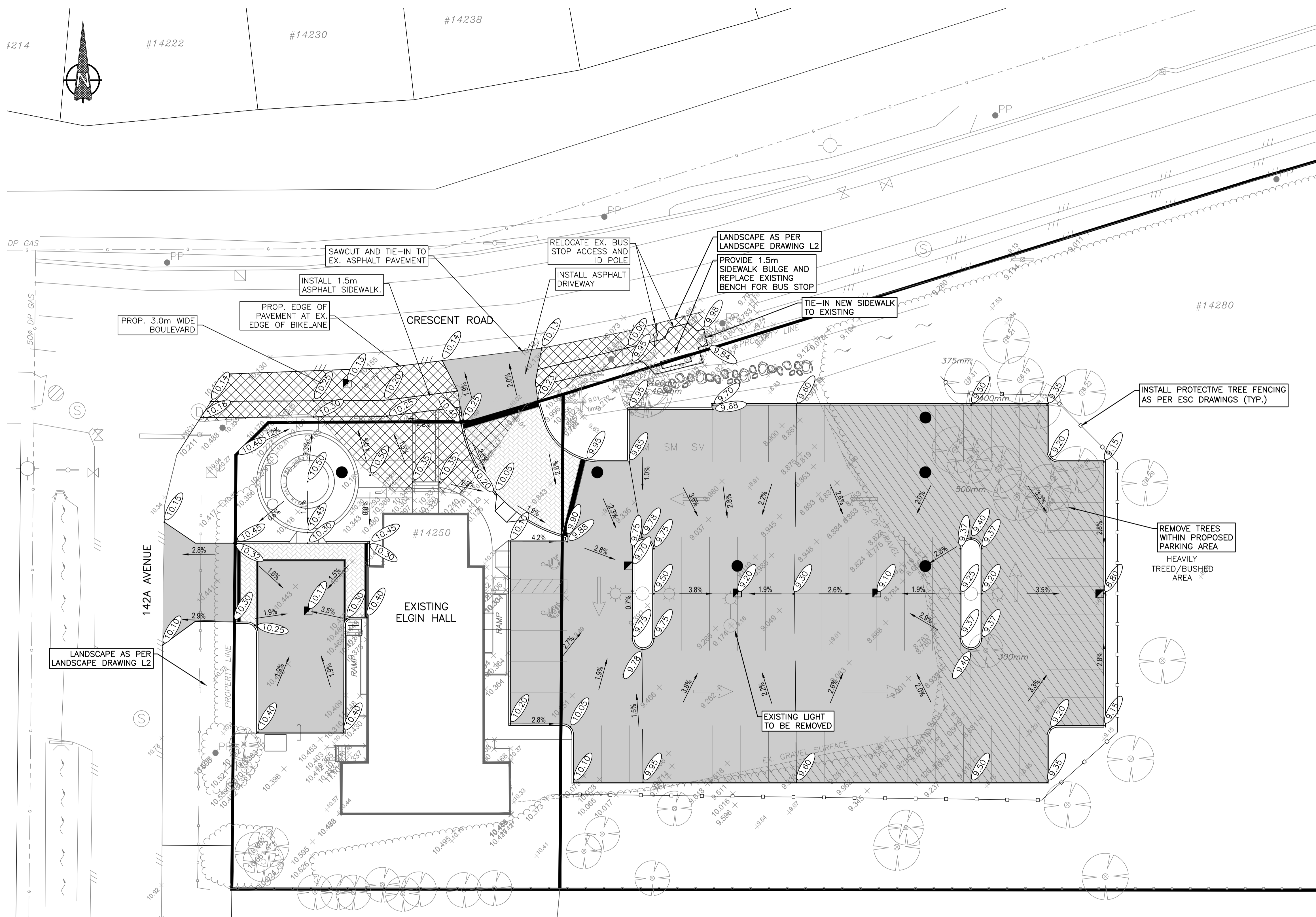
SCALE: NTS

**PROJECT LOCATION**

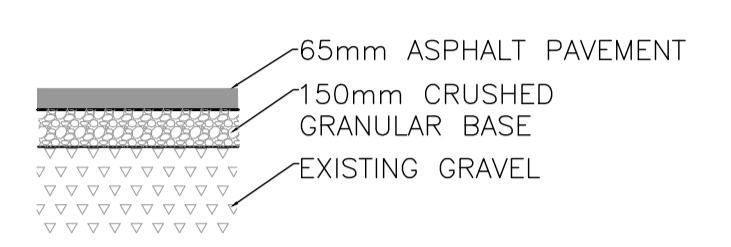
### GENERAL NOTES APPLICABLE TO ALL CIVIL WORK

- ALL CONSTRUCTION AND MATERIALS SHALL BE IN ACCORDANCE WITH:
  - THE LATEST EDITION OF THE BRITISH COLUMBIA BUILDING CODE AND THE BC PLUMBING CODE.
  - THE MASTER MUNICIPAL CONSTRUCTION DOCUMENT AND STANDARD DETAIL DRAWINGS, LATEST EDITION (PLATINUM EDITION) AND CITY OF SURREY 2018 SUPPLEMENTARY SPECIFICATIONS AND DETAILED DRAWINGS UNLESS OTHERWISE NOTED;
  - CONSTRUCTION PLANS, ACCEPTED AND SIGNED BY THE CITY OF SURREY;
  - APPLICABLE CONTRACT DOCUMENTS AND ALL SPECIFICATIONS REFERENCED THEREIN;
  - MINISTRY OF ENVIRONMENT AND/OR FEDERAL DEPARTMENT OF FISHERIES AND OCEANS;
  - MINISTRY OF TRANSPORTATION "BC TRAFFIC CONTROL MANUAL FOR WORK ON ROADWAYS", LATEST EDITION; AND
  - WORKSAFEBC, LATEST EDITION.

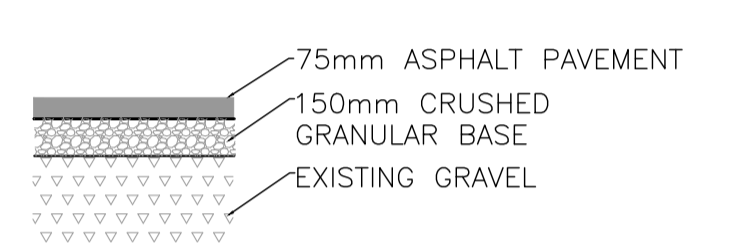
THE CONTRACTOR SHALL MAINTAIN ON SITE COPIES OF THE ABOVE DOCUMENTS AND SHALL ENSURE THAT ALL SUB CONTRACTORS ARE THOROUGHLY FAMILIAR WITH THE APPLICABLE SECTIONS OF THE DOCUMENTS. WHERE CONFLICTS EXIST, THE MORE STRINGENT REQUIREMENT SHALL GOVERN. ALL EXCEPTIONS TO THE ABOVE STANDARDS SHALL BE APPROVED IN WRITING BY THE ENGINEER.
- ALL ELEVATIONS SHOWN ARE GEODETIC.
- ALL EXISTING UTILITIES ARE SHOWN ACCORDING TO AVAILABLE RECORD DRAWINGS. NO RESPONSIBILITY IS IMPLIED OR ASSUMED BY THE CITY OF SURREY OR ISL ENGINEERING AND LAND SERVICES LTD. AS TO AS FOUND LOCATION, ACCURACY OR OMISSIONS. THE CONTRACTOR SHALL CONTACT THE VARIOUS COMPANIES DIRECTLY FOR INFORMATION AS TO ACTUAL LINE AND SERVICE CONNECTION LOCATIONS. THE CONTRACTOR SHALL LOCATE ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION, INCLUDING UNDERGROUND POWER AND TELEPHONE SERVICE DUCTS AND SHALL NOTIFY THE ENGINEER OF RECORD A MINIMUM OF 72 HOURS PRIOR TO CONSTRUCTION OF ANY CONFLICTS. ANY ADDITIONAL WORK REQUIRED AS A RESULT OF FAILING TO PRE-LOCATE KNOWN OR POTENTIAL CONFLICTS WILL BE COMPLETED AT THE CONTRACTOR'S EXPENSE.
- RESTORATION OF EXISTING DRIVEWAYS, CURBS AND WALKWAYS TO CONFORM TO CITY SPECIFICATIONS.
- EVERY EFFORT IS TO BE MADE TO SAVE EXISTING LANDSCAPING WITHIN THE ROAD R.O.W. LANDSCAPING IS TO BE RESTORED TO ITS ORIGINAL OR BETTER CONDITION.
- THE CONTRACTOR SHALL RESTORE ANY DAMAGE TO EXISTING STRUCTURES OR SURFACE FEATURES TO ORIGINAL CONDITION OR BETTER FOLLOWING CONSTRUCTION.
- MANHOLE, CATCH BASIN AND LAWN BASIN RIM ELEVATIONS SHALL BE SET TO MATCH FINISHED GRADE.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL CITY PERMITS AND TRAFFIC ACCOMMODATIONS FOR WORK WITHIN THE CITY ROAD ALLOWANCE.
- CIVIL WORK TO BE COORDINATED WITH ALL OTHER DISCIPLINES AS REQUIRED. THE CONTRACTOR SHALL COORDINATE WITH GEOTECHNICAL ENGINEER REVIEW AND APPROVE
  - NATIVE SUBGRADE PRIOR TO FILL PLACEMENT.
  - FILL MATERIAL PRIOR TO USE.
  - BACKFILL MATERIAL
  - PAVEMENT STRUCTURE INCLUDING ROAD BASE AND ASPHALT SURFACE
- ALL PROPOSED GRADING SHALL MEET EXISTING GROUND ELEVATIONS AT ADJOINING PROPERTY LINES UNLESS OTHERWISE NOTED.
- CONTRACTOR TO CONTACT ISL ENGINEERING AND LAND SERVICES (604.371.0091) A MINIMUM 24 HOURS IN ADVANCE TO ARRANGE FOR INSPECTION PRIOR TO BACKFILLING INSTALLED WORKS.



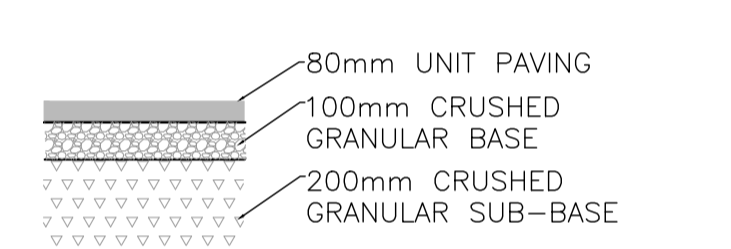
PAVEMENT DETAIL FOR NEW PARKING AREA  
NTS



PAVEMENT DETAIL OVER EXISTING GRAVEL  
NTS



PAVEMENT DETAIL FOR WEST LOADING YARD  
NTS



PAVEMENT DETAIL FOR UNIT PAVING SURFACE  
NTS

**LEGEND**

GRADE	2.0%
EX. ELEVATION	9.596 +
PR. ELEVATION	17.08
CONCRETE BARRIER CURB	
RIDGE LINE	
PR. CATCHBASIN	
PR. MANHOLE LID	
ASPHALT PAVEMENT	
SIDEWALKS	
LANDSCAPING	
NEW PARKING AREA (TREE AND BRUSH REMOVAL REQUIRED)	
EXISTING ASPHALT REMOVAL	
UNIT PAVING	
EDGE OF ASPHALT	
EDGE OF GRAVEL	
EDGE OF VEGETATION	
EX. CATCHBASIN	
EX. VALVE	
EX. SANITARY MANHOLE	
EX. STORM MANHOLE	

H:\projects\31566 CoS Elgin Hall Civil Design Service\02\_CADD\20\_Drafting\201\_Sheets\31566\_01\_GRADING\_PLAN.dwg

LEGAL DESCRIPTION

SURVEY BENCHMARK

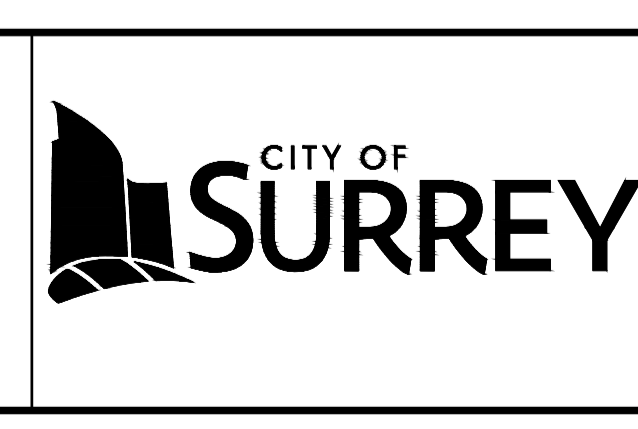
REV.	DATE	DESCRIPTION	BY
5			
4	MAR 26, 2018	ISSUED FOR TENDER	TJA
3	OCT 13, 2017	ISSUED FOR REVIEW	TJA
2	MAY 02, 2017	ISSUED FOR DRAWING COORDINATION	TJA
1	AUG 24, 2016	ISSUED FOR DEVELOPMENT PERMIT	TJA

I am a Professional Engineer, in good standing in and for the Province of British Columbia, hereby certify that the works as herein set out on the attached drawings have been designed to good engineering standards and in accordance with the latest edition of the City of Surrey Design Criteria Manual, the IMC/D, and the City of Surrey Standard Construction Documents (General Conditions, Supplementary Specifications and Supplementary Standard Drawings), adopted by the City of Surrey.

**CONSULTANT**

**ISL Engineering and Land Services**

SUITE 301, 20338 - 65 AVENUE  
LANGLEY, BRITISH COLUMBIA, V2Y 2X3  
(604) 530-2288 FAX : (604) 530-1132



**CLIENT**

**City of Surrey**  
13450 104 Ave. Surrey, BC,  
Canada V3T 1V8

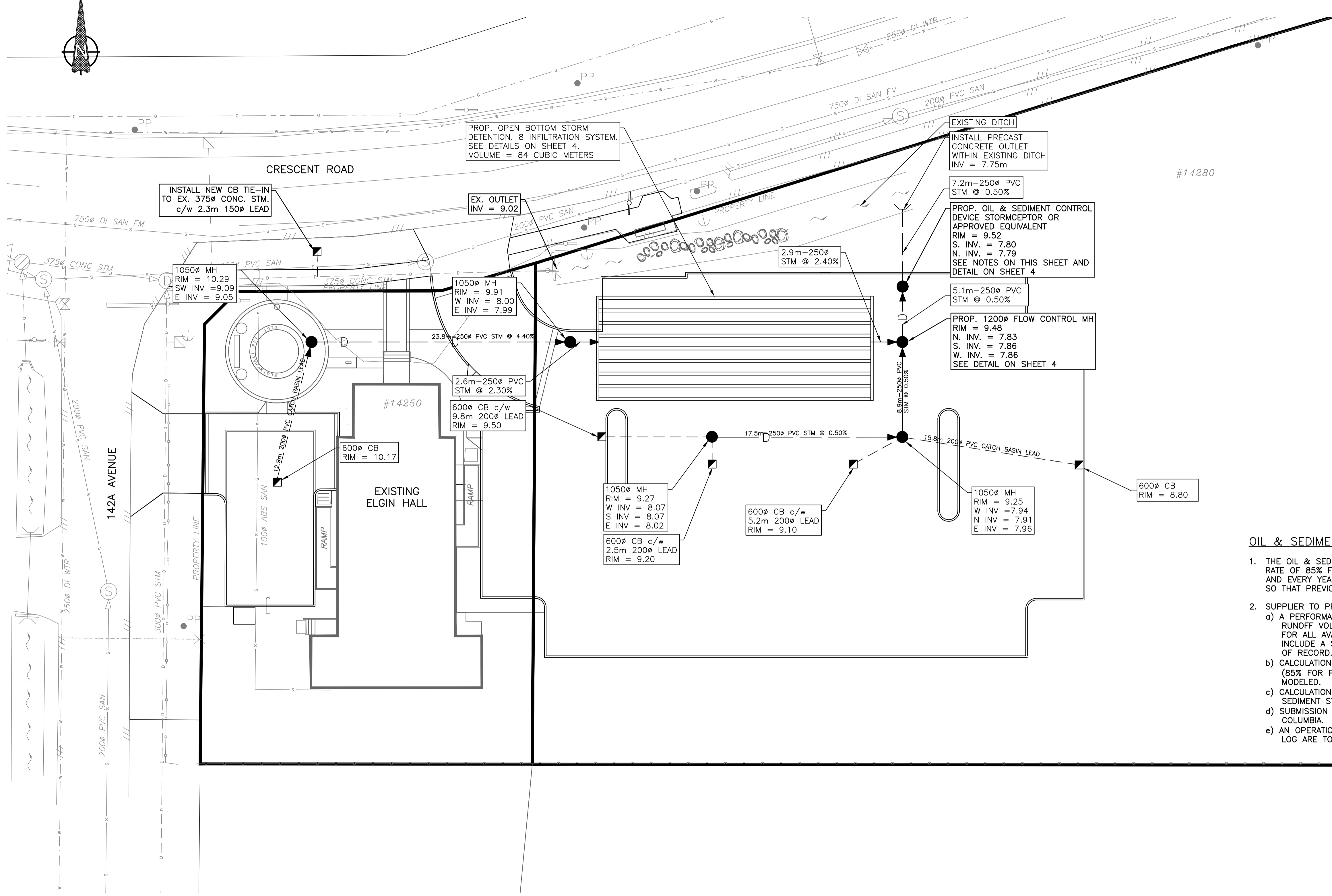
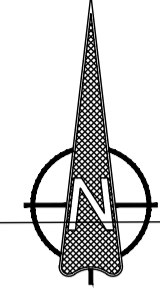
**TITLE**

**ELGIN HALL PARKING UPGRADE  
GRADING PLAN**

**SEAL**

SCALE: HOR. 1:200 VERT. 1:200	DATE (YYYY.MM.DD) 16-08-24	SURREY PROJECT NUMBER
DESIGNED SJV	CONSULTANT PROJ. NO. 31566	SURREY DRAWING NUMBER
DRAWN TJA	DWG. NO. C02	
REVIEWED SJV	REV. 5	

DESTROY ALL PRINTS BEARING PREVIOUS NUMBER



- OIL & SEDIMENT CONTROL DEVICE NOTES:**
1. THE OIL & SEDIMENT CONTROL DEVICE SHALL HAVE A MIN. ANNUAL TSS REMOVAL RATE OF 85% FOR PARTICLE SIZES 50 MICROMETER AND GREATER FOR EACH AND EVERY YEAR. DURING HIGH FLOWS THE SYSTEM SHALL INTERNALLY BYPASS SO THAT PREVIOUSLY CAPTURED SEDIMENT IS SEPARATED FROM THE HIGH FLOW.
  2. SUPPLIER TO PROVIDE:
    - a) A PERFORMANCE TABLE SHOWING AVERAGE ANNUAL REMOVAL RATES, TOTAL RUNOFF VOLUMES, TREATED VOLUMES AND SEDIMENT DEPOSITION VOLUMES FOR ALL AVAILABLE YEARS OF LOCAL METEOROLOGICAL RAINFALL DATA. INCLUDE A SUMMARY OF TOTAL RUNOFF VOLUME TREATED OVER THE PERIOD OF RECORD.
    - b) CALCULATIONS/INFORMATION SHOWING HOW AVERAGE ANNUAL REMOVAL RATES (85% FOR PARTICLE SIZES 50 MICROMETER OR GREATER) WERE ACHIEVED OR MODELED.
    - c) CALCULATIONS/INFORMATION DEMONSTRATING HOW THE ONE YEAR OF SEDIMENT STORAGE CAPACITY WAS DERIVED.
    - d) SUBMISSION TO BE SIGNED AND SEALED BY ENGINEER REGISTERED IN BRITISH COLUMBIA.
    - e) AN OPERATION AND MAINTENANCE (O&M) MANUAL AND SAMPLE MAINTENANCE LOG ARE TO BE PROVIDED TO THE OWNER.

LEGEND	
CATCHBASIN	▣
MANHOLE LID	●
STORM SEWER	— D —
CATCH BASIN LEAD	---

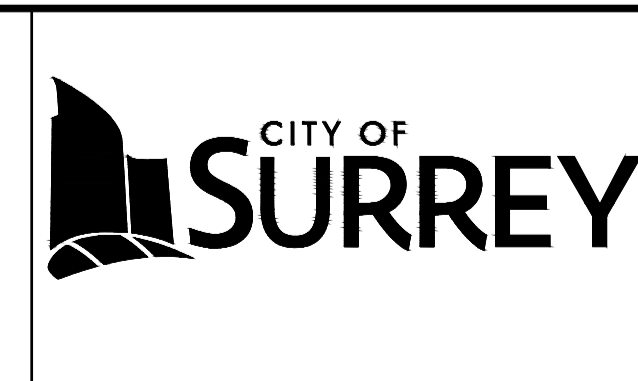
REV.	DATE	DESCRIPTION	BY
5			
4	MAR 26, 2018	ISSUED FOR TENDER	TJA
3	OCT 13, 2017	ISSUED FOR REVIEW	TJA
2	MAY 02, 2017	ISSUED FOR DRAWING COORDINATION	TJA
1	AUGUST 24, 2016	ISSUED FOR DEVELOPMENT PERMIT	SJV

"I, \_\_\_\_\_, Professional Engineer, in good standing in and for the Province of British Columbia, hereby certify that the works as herein set out on the attached drawings have been designed to good engineering standards and in accordance with the latest edition of the City of Surrey Design Criteria Manual, the MMCD, and the City of Surrey Standard Construction Documents (General Conditions, Supplementary Specifications and Supplementary Standard Drawings), adopted by the City of Surrey.

**CONSULTANT**

**ISL Engineering and Land Services**

SUITE 301, 20338 - 65 AVENUE  
LANGLEY, BRITISH COLUMBIA, V2Y 2X3  
(604) 530-2288 FAX: (604) 530-1132



**CLIENT**

**City of Surrey**  
13450 104 Ave. Surrey, BC,  
Canada V3T 1V8

**TITLE** ELGIN HALL PARKING UPGRADE  
SITE SERVICING PLAN

**SEAL**

SCALE: HOR. 1:200  
VERT. 1:200

DATE (YYYY.MM.DD)  
**16-08-24**

CONSULTANT PROJ. NO.  
**31566**

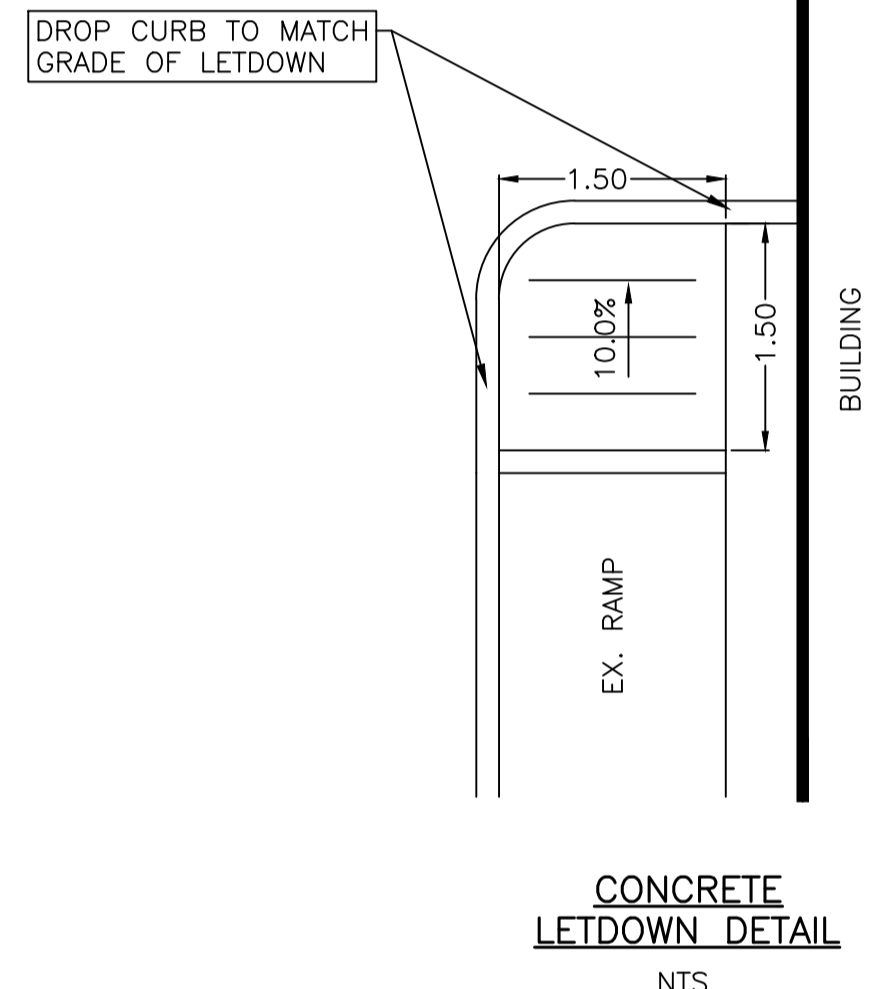
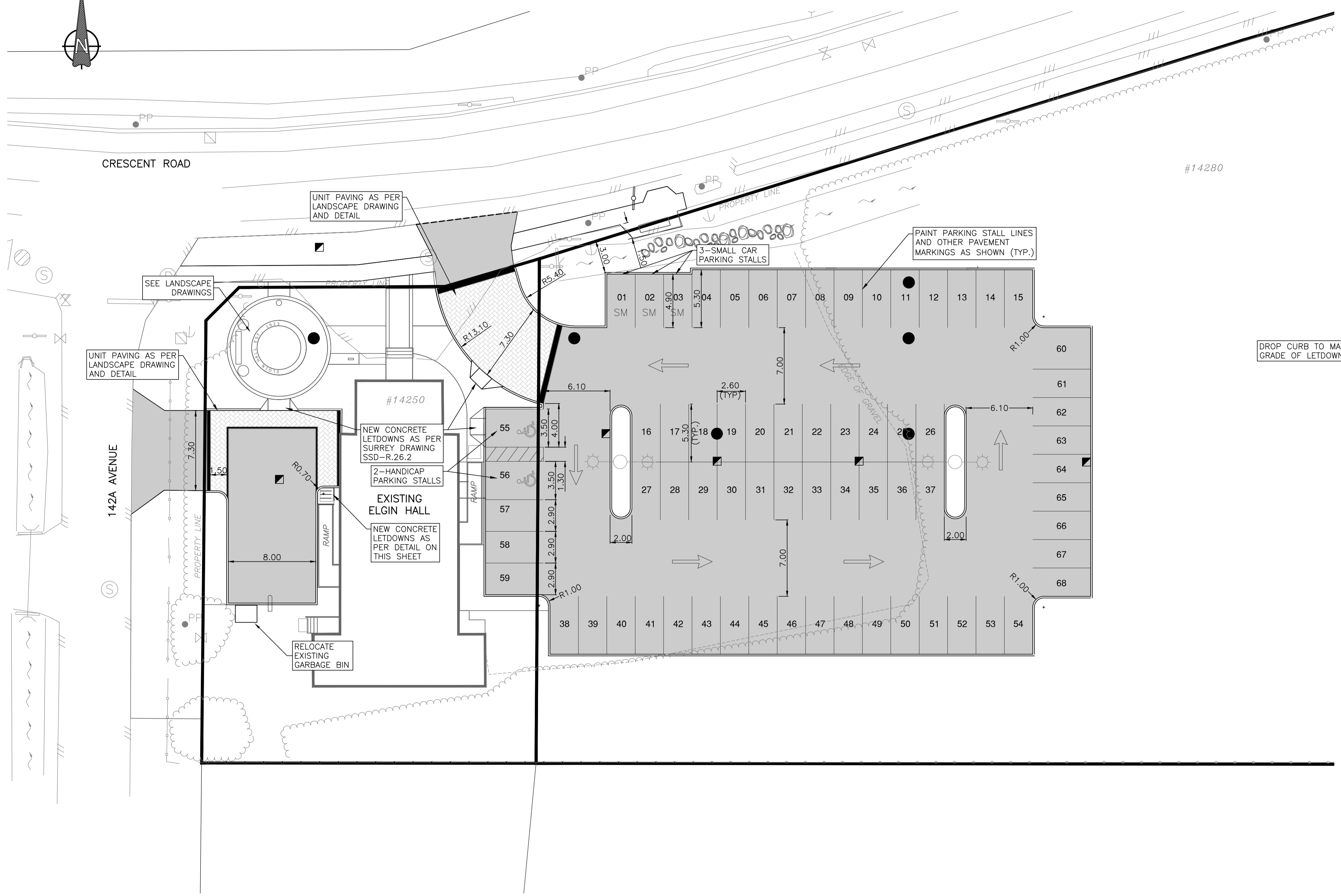
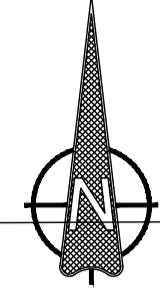
DWG. NO.  
**C03**

REV. 5

SURREY PROJECT NUMBER

SURREY DRAWING NUMBER

H:\projects\31566 CoS Elgin Hall Civil Design Service\02\_CADD\20\_Drafting\201\_Sheets\31566\_02\_UTILITY PLAN.dwg



LEGEND	
CONCRETE BARRIER CURB	
CATCHBASIN	
MANHOLE LID	
ASPHALT PAVEMENT	
UNIT PAVING	
EX. GRAVEL	
EX. VEGETATION	
EX. EDGE OF ASPHALT	
TRAFFIC FLOW ARROW	

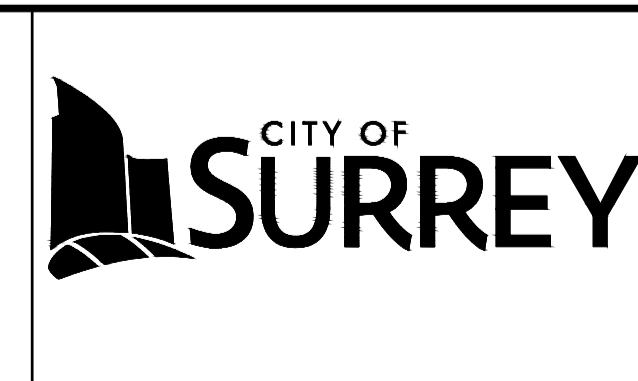
REV.	DATE	DESCRIPTION	BY
5			
4	MAR 26, 2018	ISSUED FOR TENDER	TJA
3	OCT 13, 2017	ISSUED FOR REVIEW	TJA
2	MAY 02, 2017	ISSUED FOR DRAWING COORDINATION	TJA
1	AUGUST 24, 2016	ISSUED FOR DEVELOPMENT PERMIT	SJV

"I, \_\_\_\_\_, Professional Engineer, in good standing in and for the Province of British Columbia, hereby certify that the works as herein set out on the attached drawings have been designed to good engineering standards and in accordance with the latest edition of the City of Surrey Design Criteria Manual, the IMC/D, and the City of Surrey Standard Construction Documents (General Conditions, Supplementary Specifications and Supplementary Standard Drawings), adopted by the City of Surrey.

**CONSULTANT**

**ISL Engineering and Land Services**

SUITE 301, 20338 - 65 AVENUE  
LANGLEY, BRITISH COLUMBIA, V2Y 2X3  
(604) 530-2288 FAX : (604) 530-1132



**CLIENT**

**City of Surrey**  
13450 104 Ave. Surrey, BC,  
Canada V3T 1V8

**TITLE** ELGIN HALL PARKING UPGRADE  
LINE MARKING AND PARKING LAYOUT

**SEAL**

SCALE: HOR. 1:200  
VERT. 1:200

DATE (YYYY.MM.DD)  
**16-08-24**

CONSULTANT PROJ. NO.  
**31566**

DESIGNED SJV  
DRAWN TA  
REVIEWED SJV

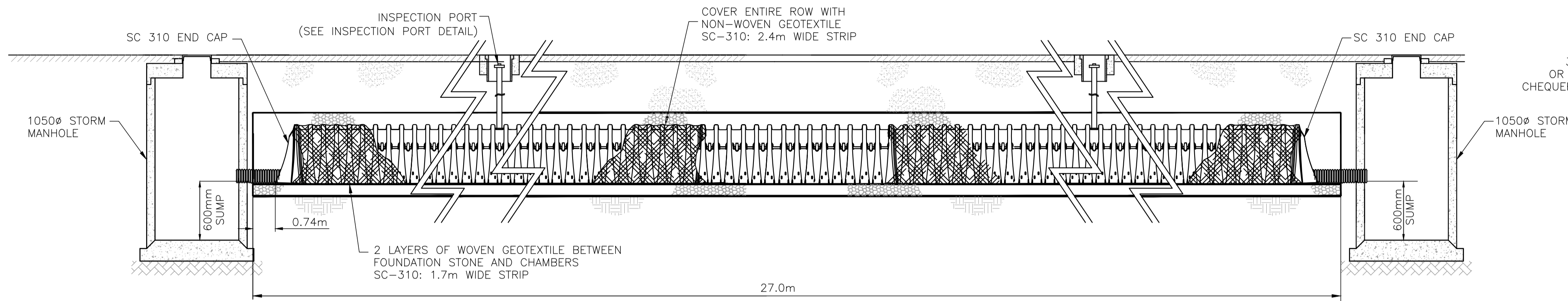
DWG. NO.  
**C04**

REV. 5

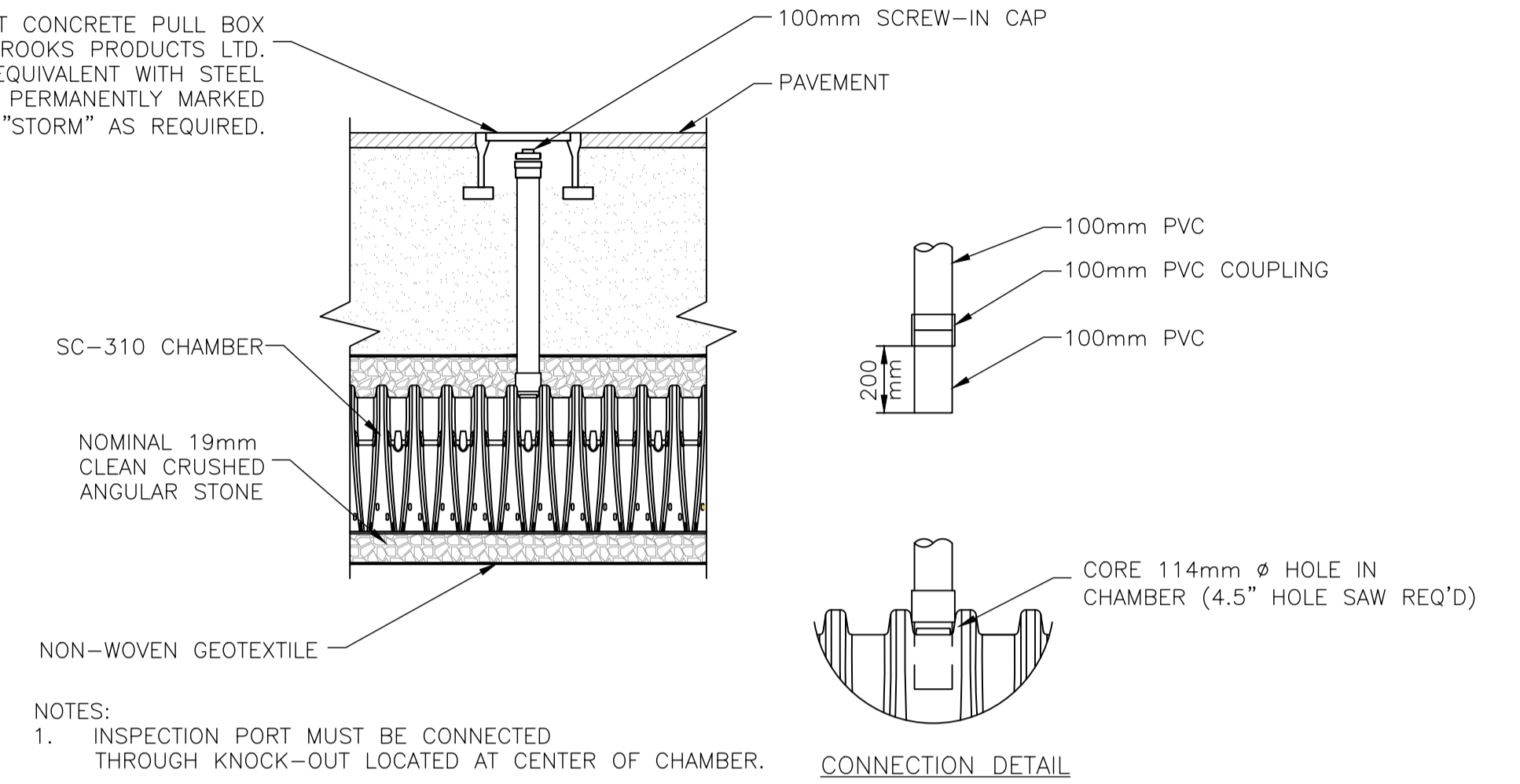
SURREY PROJECT NUMBER

SURREY DRAWING NUMBER

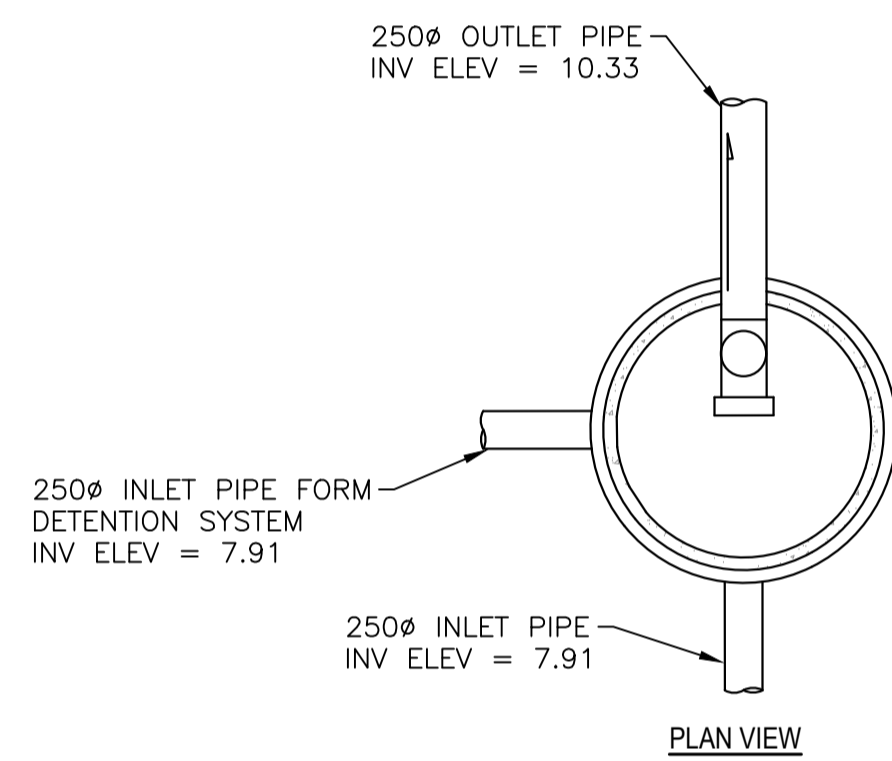
H:\projects\31566 CoS Elgin Hall Civil Design Service\02\_CADD\20\_Drafting\201\_Sheets\31566\_03\_PARKING\_LAYOUT.dwg



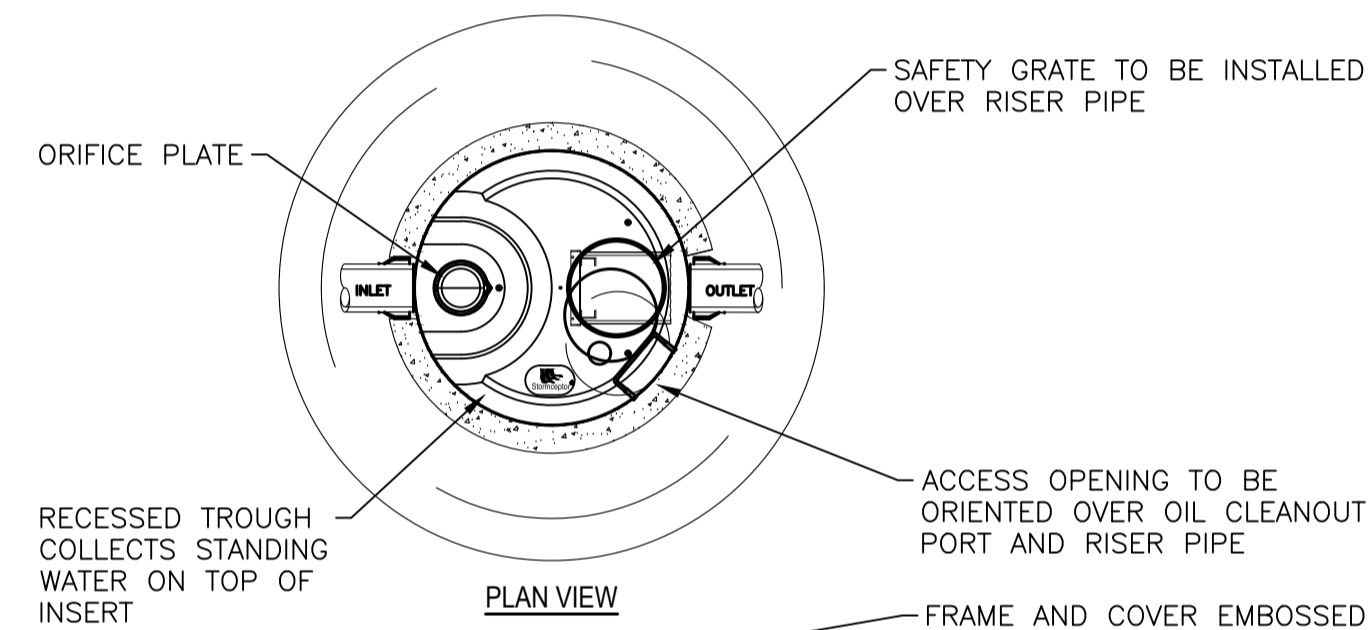
ISOLATOR ROW PROFILE (ON SITE SYSTEM)  
SCALE: NTS



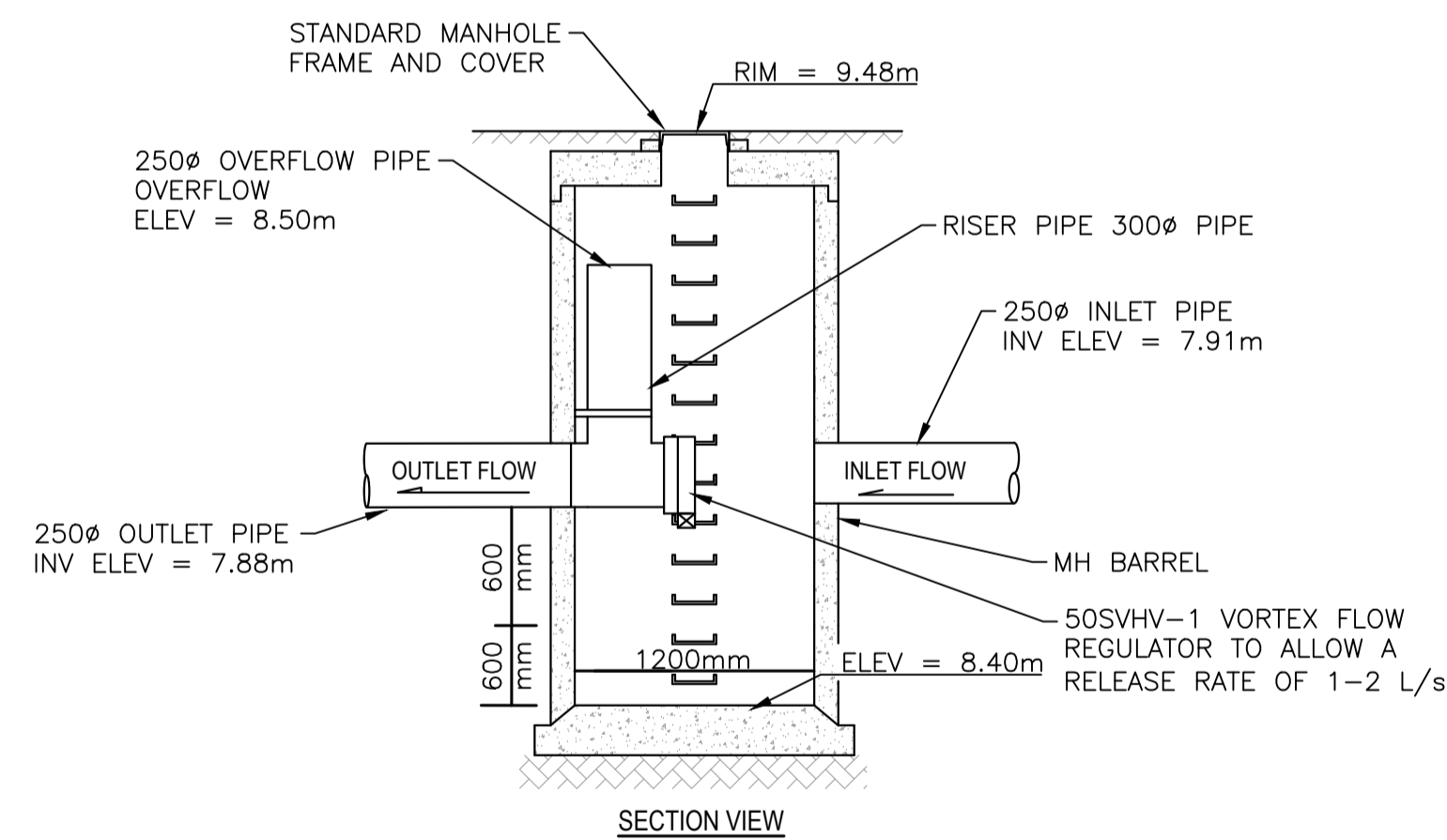
INSPECTION PORT DETAIL  
SCALE: NTS



PLAN VIEW



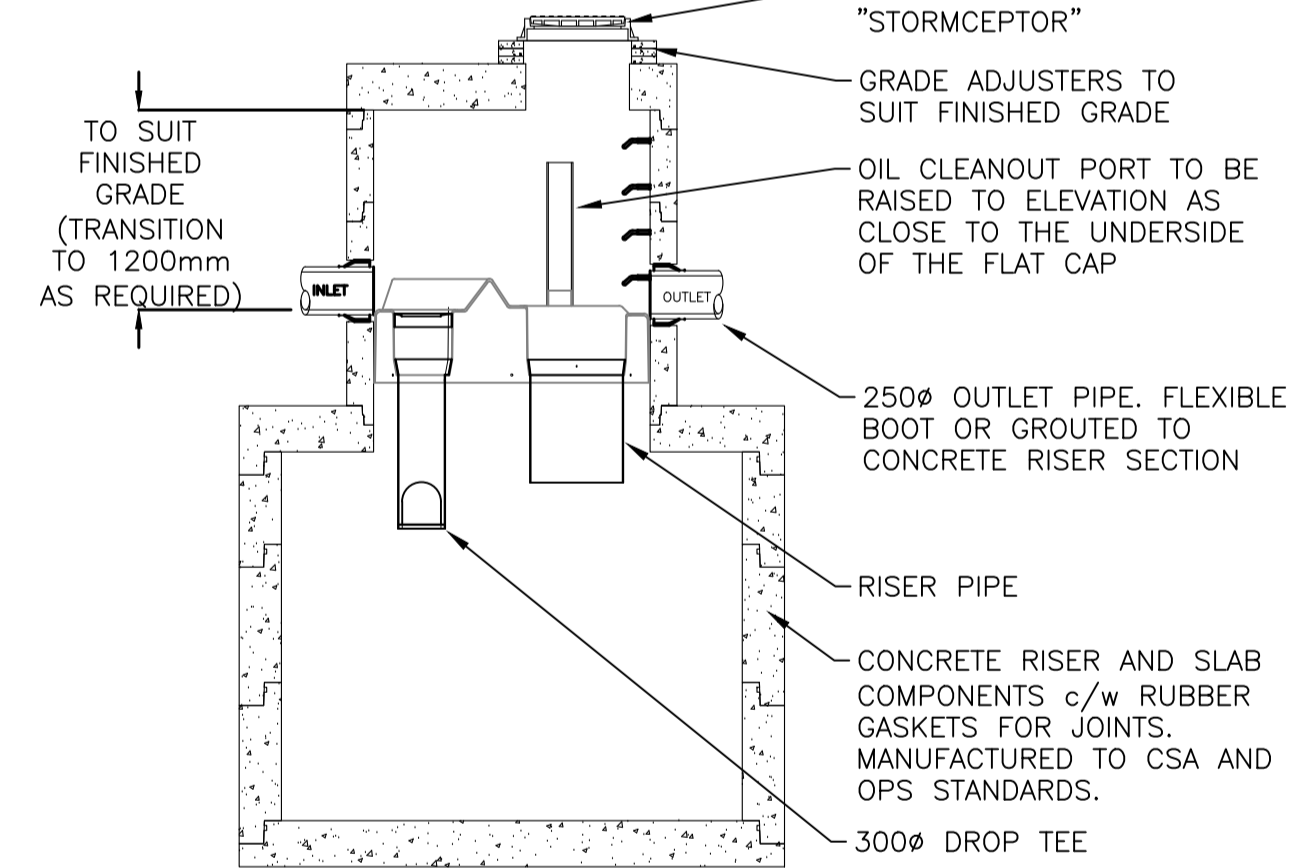
PLAN VIEW



SECTION VIEW

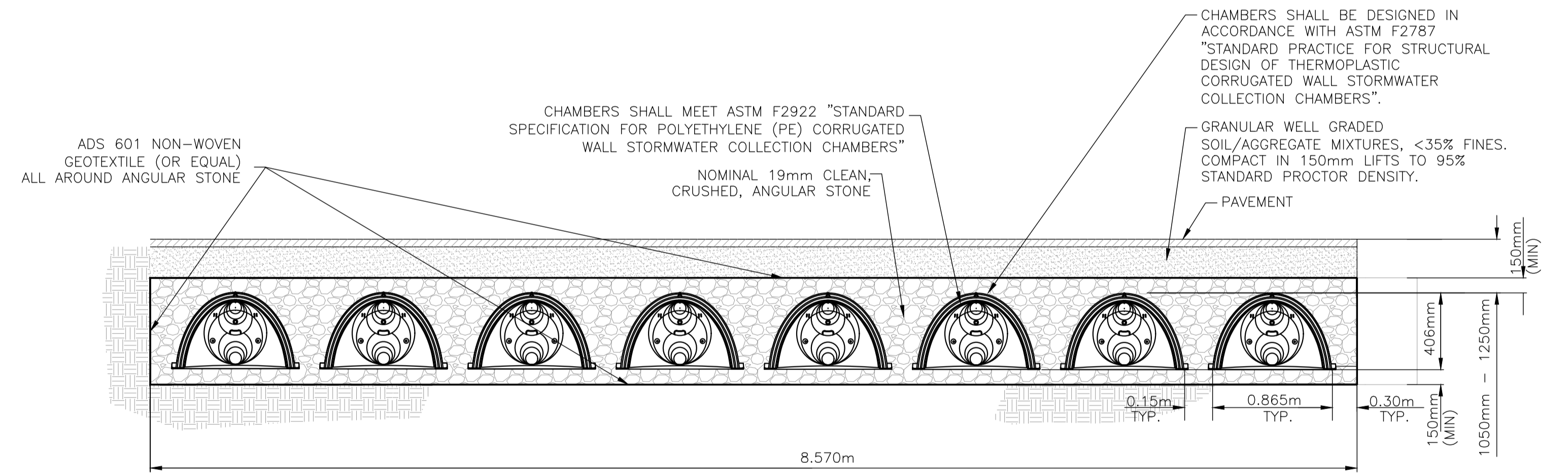
DMH 2  
STORM FLOW CONTROL MANHOLE  
SCALE: NTS

1. CONTRACTOR TO PROVIDE SHOP DRAWINGS OF CONTROL MANHOLE FOR APPROVAL PRIOR TO CONSTRUCTION.



SECTION VIEW

DMH 1  
SAMPLE SEDIMENT CONTROL CHAMBER  
SCALE: NTS



SC-310 TYPICAL CROSS-SECTION (ON SITE SYSTEM)  
SCALE: NTS

H:\projects\31566\_CoS\_Elgin\_Hall\_Civil\_Design\_Service\02\_CADD\20\_Drafting\201\_Sheets\31566\_04\_Details.dwg

REV	DATE	DESCRIPTION	BY
5			
4	MAR 26, 2018	ISSUED FOR TENDER	TJA
3	OCT 13, 2017	ISSUED FOR REVIEW	TJA
2	MAY 02, 2017	ISSUED FOR DRAWING COORDINATION	TJA
1	AUG 24, 2016	ISSUED FOR DEVELOPMENT PERMIT	SJV

I, \_\_\_\_\_ Professional Engineer, in good standing in and for the Province of British Columbia, hereby certify that the works as herein set out on the attached drawings have been designed to good engineering standards and in accordance with the latest edition of the City of Surrey Design Criteria Manual, the MMCD, and the City of Surrey Standard Construction Documents (General Conditions, Supplementary Specifications and Supplementary Standard Drawings), adopted by the City of Surrey.

CONSULTANT

**ISL Engineering and Land Services**

SUITE 301, 20338 - 65 AVENUE  
LANGLEY, BRITISH COLUMBIA, V2Y 2X3  
(604) 530-2288 FAX: (604) 530-1132



CLIENT

**City of Surrey**  
13450 104 Ave. Surrey, BC,  
Canada V3T 1V8

TITLE **ELGIN HALL PARKING UPGRADE  
DETAILS**

SCALE: HOR. 1:200  
VERT. 1:200

DATE (YYYY.MM.DD)  
**16-08-24**

CONSULTANT PROJ. NO.  
**31566**

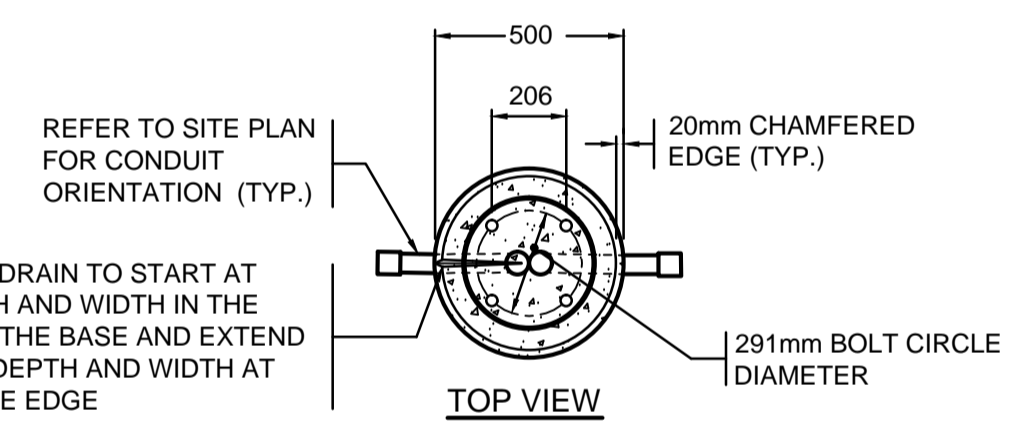
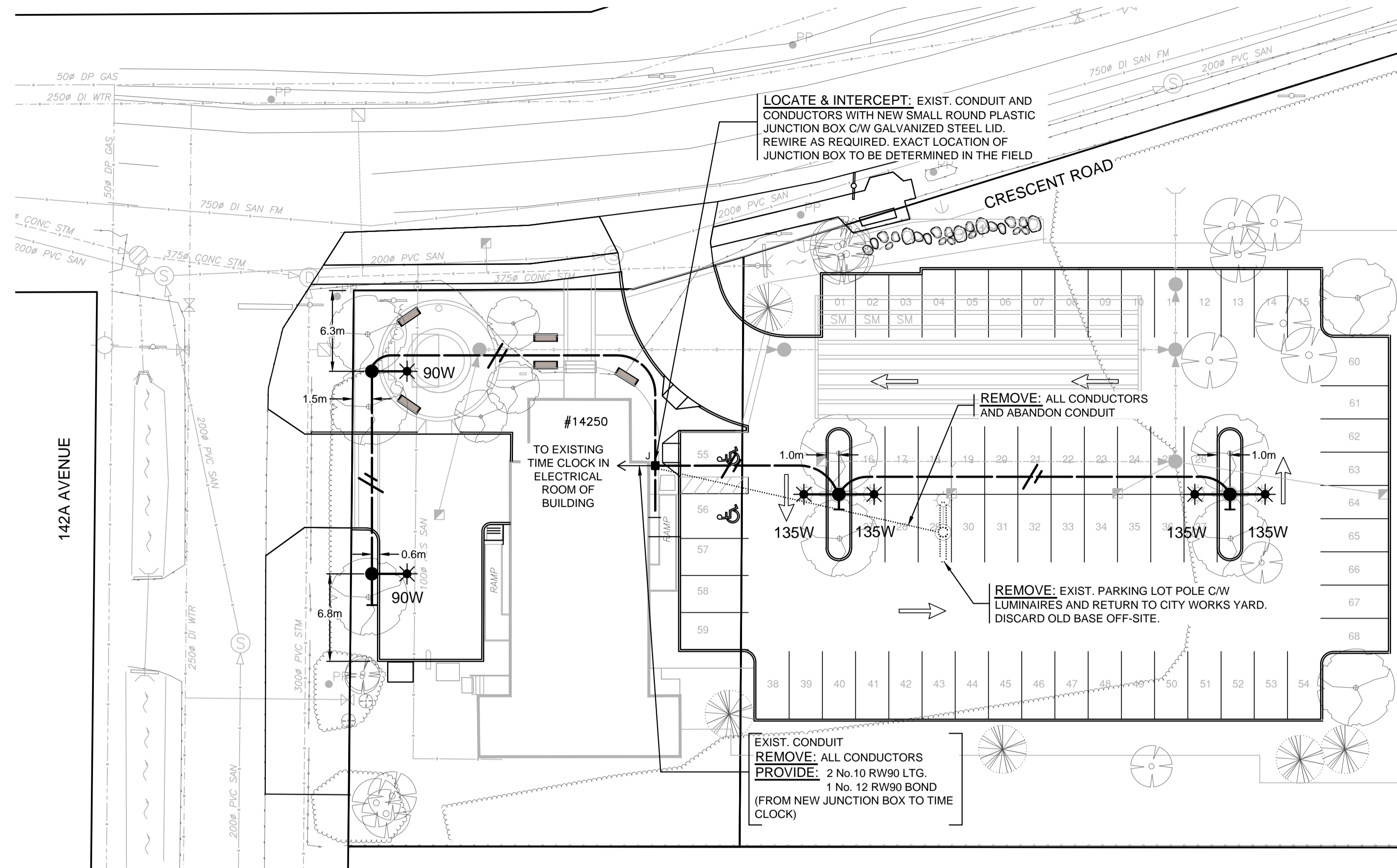
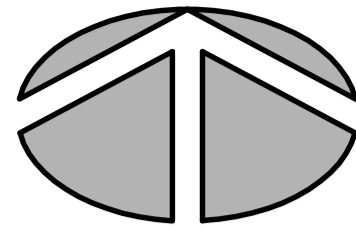
DESIGNED: SJV  
DRAWN: TJA  
REVIEWED: SJV

DWG. NO.  
**C05**

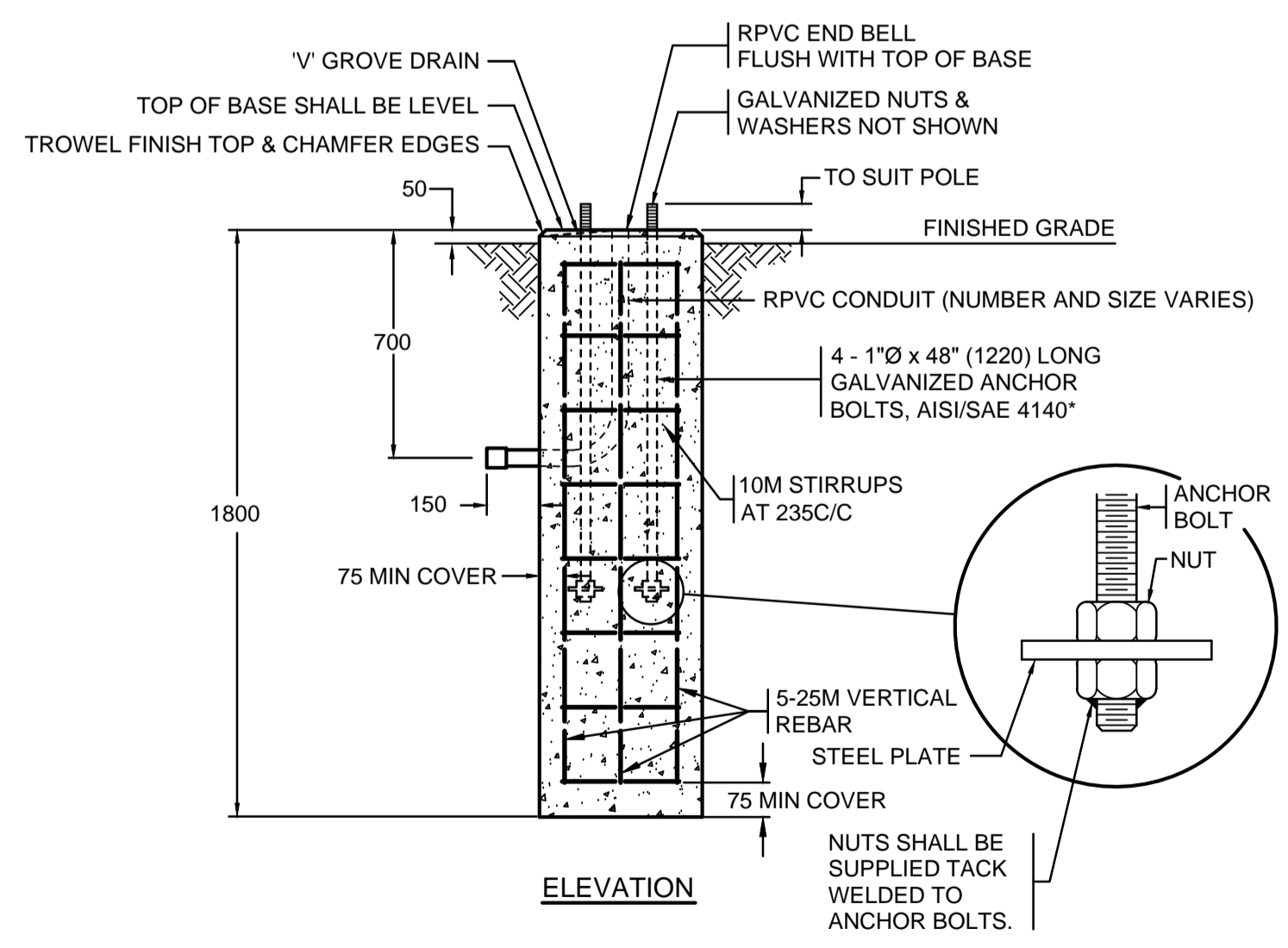
REV. 4

SURREY PROJECT NUMBER

SURREY DRAWING NUMBER



V GROOVE DRAIN TO START AT ZERO DEPTH AND WIDTH IN THE CENTRE OF THE BASE AND EXTEND TO A 10mm DEPTH AND WIDTH AT THE OUTSIDE EDGE



SONOTUBE CONCRETE BASE DETAIL  
N.T.S.

**SONOTUBE NOTES:**

- ALL HARDWARE SHALL BE GALVANIZED IN ACCORDANCE WITH CAN/CSA G14-M92
- APPLY LUBRIPLATE OR OTHER SUITABLE GREASE TO EXPOSED PORTION OF ANCHOR BOLTS AND NUTS PRIOR TO POLE INSTALLATION
- CONCRETE TO HAVE A MINIMUM STRENGTH OF 30MPa AT 28 DAYS.
- FOOTINGS ARE DESIGNED FOR SOILS WITH A MINIMUM ALLOWABLE BEARING PRESSURE OF 125kPa. AFTER EXCAVATION DESIGN ENGINEER SHALL CONFIRM SOIL AND EXCAVATION PRIOR TO CONSTRUCTION OF BASE.
- ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE NOTED.
- ALL WORK SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE MINISTRY STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION (2012 ISSUE) UNLESS OTHERWISE NOTED ON THESE DRAWINGS OR IN THE SPECIAL PROVISIONS.
- BACKFILL SHALL BE S.G.S.B. IN ACCORDANCE WITH SECTION 202 OF BC MoTI STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION. BACKFILL SHALL BE PLACED AND COMPACTED IN LAYERS NO MORE THAN 150mm THICK TO 100% STANDARD PROCTOR MAXIMUM DENSITY (ASTM D-698).
- CONTRACTOR SHALL PROVIDE ALL MEANS NECESSARY TO ENSURE THAT EXCAVATIONS SHALL REMAIN DRY DURING CONSTRUCTION.
- ALL EXPOSED EDGES SHALL BE CHAMFERED 20 x 20 U.N.O.
- CONFIRM ANCHOR BOLTS AND THEIR PLAN ORIENTATION PRIOR TO SETTING IN CONCRETE FORMS.

**LEGEND**

- PROPOSED DOUBLE DECORATIVE PARKING LOT LIGHTING POLE (8.3m - 135W LED) ON A SONOTUBE CONCRETE BASE
- PROPOSED SINGLE DECORATIVE PARKING LOT LIGHTING POLE (8.3m - 90W LED) ON A SONOTUBE CONCRETE BASE
- PROPOSED SMALL ROUND PLASTIC JUNCTION BOX (2 SECTIONS DEEP) C/W GALVANIZED STEEL LID
- PROPOSED 2 No.10 RW90 LTG. AND 1 No.12 RW90 BOND IN A 35mm RPVC
- PROPOSED 35mm RPVC STUB OUT
- EXISTING PARKING LOT LIGHTING CONDUIT AND CONDUCTORS

**NOTES**

- THE MASTER MUNICIPAL CONSTRUCTION DOCUMENTS (CURRENT ISSUE) AND CITY OF SURREY ORNAMENTAL STREET LIGHT STANDARDS AND SPECIFICATIONS TO APPLY.
- ALL POLES AND BASE COVERS SHALL BE GALVANIZED AND POWDER COATED BLACK.
- CONTRACTOR SHALL OBTAIN ALL PERMITS AND LICENSES PRIOR TO CONSTRUCTION.
- ALL LUMINAIRES ON THE WEST PARKING LOT SHALL BE **PHILIPS LUMEC DOMUS 55 SERIES** MODEL No. DMS55-SMB-90W-80LED-4K-T-LE4F-120-BKTX. ALL LUMINAIRES ON THE EAST PARKING LOT SHALL BE **PHILIPS LUMEC DOMUS 55 SERIES** MODEL No. DMS55-SMB-135W-80LED-4K-T-LE5F-120-BKTX.
- A TRON HEB AA WATER RESISTANT FUSE HOLDER, C/W A 10A BUSS KTK FUSE AND 2 'L' TYPE INSULATING BOOT, SHALL BE INSTALLED IN EACH LUMINAIRE LIVE CONDUCTOR IN THE HANDHOLE.
- CONDUCTORS INSIDE STREET LIGHT POLES SHALL BE:  
No.12 RW90 X-LINK (CU)  
No.12 RW90 BOND (CU)
- ALL PARKING LOT LIGHTING FEEDER CONDUCTORS SHALL BE STRANDED COPPER (Cu) RW90 INSULATED. SIZE OF CONDUCTORS AS NOTED.
- IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO CONFIRM THE ADEQUACY OF THE EXISTING PARKING LOT LIGHT SERVICE, LIGHTING CONTROLS, CONDUIT AND CONDUCTORS AND MAKE ALL NECESSARY REPAIRS TO ADEQUATELY COMPLETE ALL CONNECTIONS INTO THE EXISTING PARKING LOT LIGHT SYSTEM.

**PARKING LOT DESIGN CRITERIA**

ITEM	DESIGN REQUIREMENTS	DESIGN ACHIEVED
AREA	EAST PARKING LOT	
ILLUMINATION TYPE	DOMUS55 135W LED TYPE LE5F DIST.	
ILLUMINANCE LEVEL (MIN.)	5.0 LUX	7.8 LUX
ILLUMINANCE UNIFORMITY RATIO (MAX.:MIN.)	15:1	3.8:1

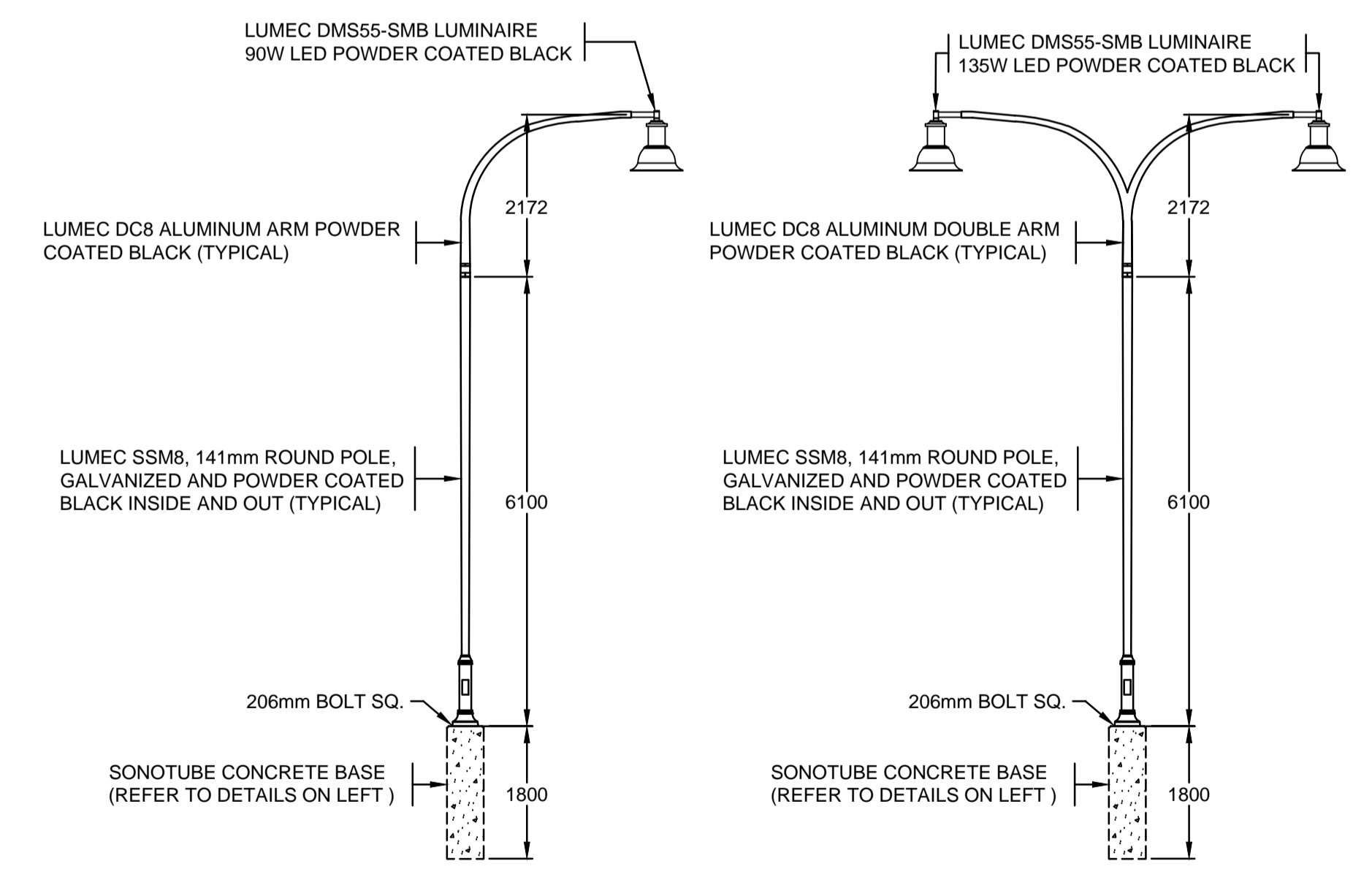
\* BASED ON IESNA RECOMMENDED VALUES FOR ENHANCED SECURITY

**PARKING LOT DESIGN CRITERIA**

ITEM	DESIGN REQUIREMENTS	DESIGN ACHIEVED
AREA	WEST PARKING LOT	
ILLUMINATION TYPE	DOMUS55 90W LED TYPE LE4F DIST.	
ILLUMINANCE LEVEL (MIN.)	5.0 LUX	10.5 LUX
ILLUMINANCE UNIFORMITY RATIO (MAX.:MIN.)	15:1	2.9:1

\* BASED ON IESNA RP-20 RECOMMENDED VALUES FOR ENHANCED SECURITY

**DISTRIBUTION VOLTAGE IS:**  
**120/240V**



TYPICAL SINGLE DECORATIVE POLE      TYPICAL DOUBLE DECORATIVE POLE



**LOCATING EQUIPMENT**

FOR CLARITY CONDUITS, JUNCTION BOXES AND STREETLIGHT POLES MAY NOT BE SHOWN AT DESIGN OFFSETS. CONTRACTOR SHALL LOCATE ALL EQUIPMENT BASED ON STATIONS AND/OR OFFSETS AS NOTED AND SHALL NOT RELY ON COORDINATES OBTAINED FROM DMD DIGITAL DRAWINGS. CONTRACTOR TO REPORT ANY CONFLICTS OR DISCREPANCIES TO DMD & ASSOCIATES LTD. **PRIOR TO ORDERING EQUIPMENT.**

**CHECK BEFORE YOU DIG**

CONTRACTOR SHALL REFER TO MUNICIPAL RECORD / CIVIL DESIGN DRAWINGS FOR ALL OTHER UTILITIES, SERVICE LOCATIONS, AND DETAILS. THE EXACT LOCATION OF THESE UTILITIES SHALL BE DETERMINED ON SITE BY THE CONTRACTOR. CONTRACTOR TO REPORT ANY CONFLICTS OR DISCREPANCIES TO DMD & ASSOCIATES LTD. **PRIOR TO ORDERING BASES.**

**OVERHEAD POWER LINE CONFLICTS**

CONTRACTOR SHALL CONFIRM ON SITE PRIOR TO CONSTRUCTION THAT POLES & EQUIPMENT WILL MEET WorkSafeBC CLEARANCE REQUIREMENTS FOR OVERHEAD PRIMARY AND SECONDARY LINES. CONTRACTOR TO REPORT ANY CONFLICTS OR DISCREPANCIES TO DMD & ASSOCIATES LTD. **PRIOR TO ORDERING POLES.**

No.	DATE	REVISION	BY
2	2018-01-12	ISSUED FOR TENDER	RAC
1	2016-10-24	SECOND SUBMISSION	GV
-	2016-08-26	FIRST SUBMISSION	LE



**DMD & Associates Ltd.**  
#12-17358 104A Avenue, Surrey, BC, Canada V4N 5M3  
www.dmdeng.com 604/589-9010  
office@dmdeng.com Fax 604/589-9012  
DMD PROJECT No. 5445-16-01 of 01

CLIENT **ISL Engineering and Land Services Ltd.**  
201 - 8506 200 Street, Langley, BC V2Y 0M1 Tel.: 604-530-2288

DRAWING DESCRIPTION  
**PARKING LOT LIGHTING**  
ELGIN HALL  
142A AVENUE AND CRESCENT ROAD

DRAWN BY AM  
DESIGNED BY RAC  
CHECKED BY .

DATE 2016-07-26  
DRAWING No. 1

SCALES  
HORIZONTAL 1:250  
VERTICAL AS NOTED

SHEET 1 OF 1  
REV. 2

DESTROY ALL PRINTS BEARING PREVIOUS No. ↑



THE CITY OF SURREY

TITLE PARKING LOT LTG. - ELGIN HALL  
142A AVENUE AND CRESCENT ROAD

SCALE: HOR: 1:250  
VER: AS NOTED

CHECKED: SURREY DRAWING No. .

# ELGIN HALL PARKING UPGRADE

SURREY, BC

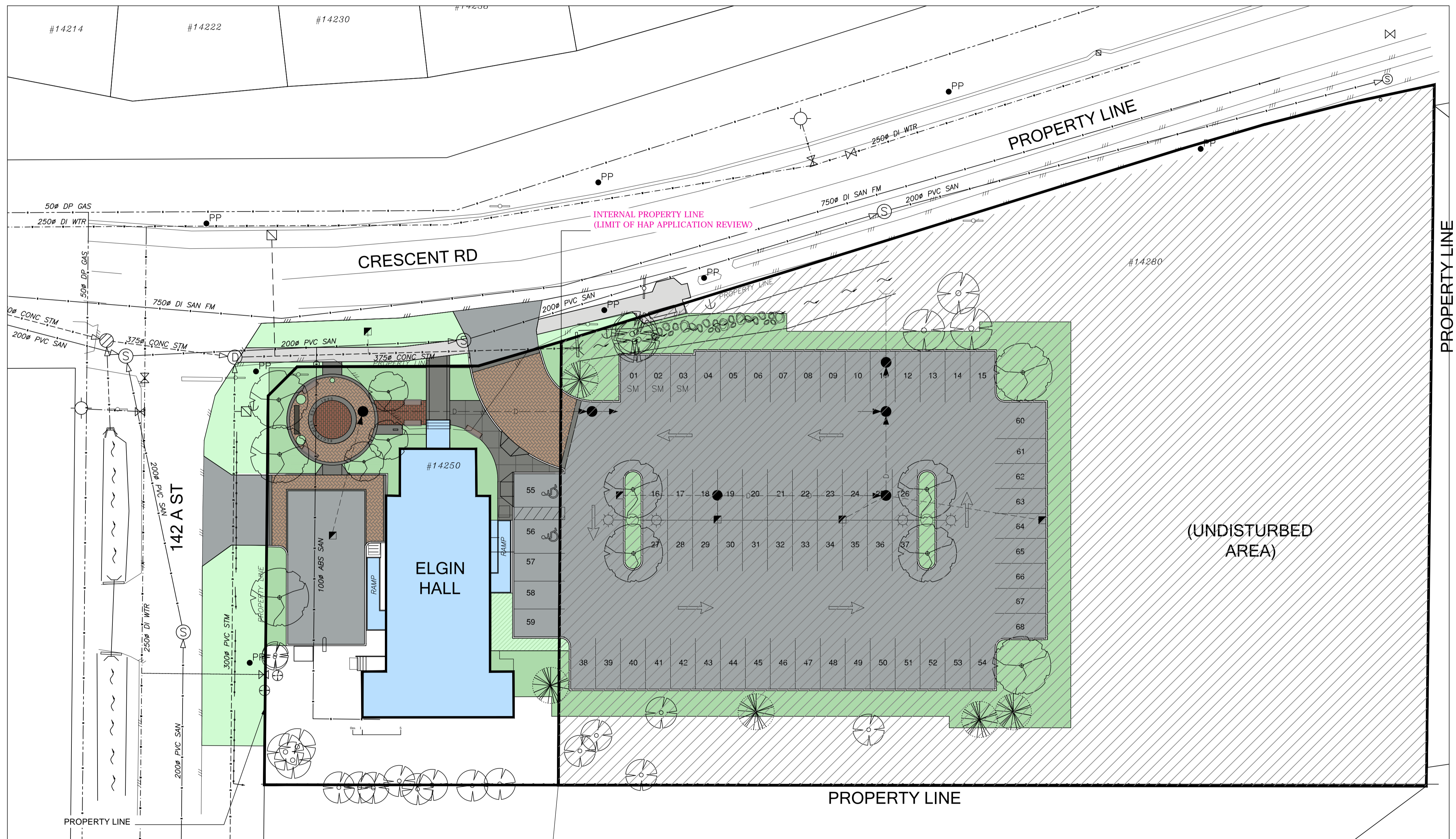
ELGIN HALL ADDRESS: 14250 CRESCENT ROAD, SURREY, BC V4P 1M3

CLIENT: CITY OF SURREY  
CLIENT ADDRESS: 13450 104 AVE, SURREY, BC, CANADA V3T 1V8

## DESIGN DEVELOPMENT

### DRAWING INDEX

Sheet No.	Sheet Name
L0	LANDSCAPE COVER SHEET
L1	LANDSCAPE NOTES
L2	LANDSCAPE PLAN
L3	LANDSCAPE PLANTING PLAN - WEST
L4	LANDSCAPE PLANTING PLAN - EAST
L5	LANDSCAPE DETAILS 1
L6	LANDSCAPE DETAILS 2
L7	LANDSCAPE DETAILS 3



AERIAL OF APPROXIMATE PROJECT SITE (N.T.S.)

ELGIN HALL SITE- SCALE: 1:250

REV.	DATE	DESCRIPTION	BY
6	FEB 14, 2018	HAP UPDATE	LN

CONSULTANT



SUITE 301, 20338 - 65 AVENUE  
LANGLEY, BRITISH COLUMBIA, V2Y 2X3  
(604) 530-2288 FAX: (604) 530-1132



CLIENT

City of Surrey

13450 104 Ave. Surrey, BC,  
Canada V3T 1V8

TITLE ELGIN HALL PARKING UPGRADE  
LANDSCAPE COVER SHEET

SEAL

SCALE: HOR. 1:200  
VERT. n/a

DATE (YYYY.MM.DD)  
18-02-14

CONSULTANT PROJ. NO.  
31566

DWG. NO.  
L0

SURREY PROJECT NUMBER  
15-0411

SURREY DRAWING NUMBER

REV.  
6

DESTROY ALL PRINTS BEARING PREVIOUS NUMBER

**LANDSCAPE NOTES TO BIDDERS (CONTRACTORS)**

**LANDSCAPE NOTES**

**1.0 GENERAL**

- .1 CONTRACTOR TO ENSURE DRAWINGS AND SPECIFICATIONS HAVE BEEN REVIEWED (COMPLETE) AND THAT SUB-CONTRACTORS ARE PROVIDED WITH COMPLETE INFORMATION AT TIME OF BIDDING, AND SUBSEQUENT MOBILIZATION UPON AWARD.
- .2 CONTRACTOR TO VERIFY ALL UNITS AND QUANTITIES SHOWN.
- .3 CONTRACTOR TO IMMEDIATELY NOTIFY CONTRACT ADMINISTRATOR OF ANY DISCREPANCIES BETWEEN DRAWINGS AND SPECIFICATIONS PRIOR TO COMMENCING WORK. DO NOT COMMENCE WORK UNTIL DISCREPANCY IS CLARIFIED OR RESOLVED.
- .4 CONTRACTOR TO IMMEDIATELY NOTIFY CONTRACT ADMINISTRATOR OF ANY SCHEDULE DELAYS IMPOSED BY UNFORESEEN ISSUES. SUBMIT WRITTEN NOTICE.
- .5 CONTRACTOR TO PROVIDE A WEEKLY EMAIL SUMMARIZING WORKS COMPLETED IN THE WEEK AND WORKS SCHEDULED FOR THE FOLLOWING WEEK.
- .6 CONTRACTOR TO PROVIDE WEEKLY SITE PROGRESS IMAGES TO A DEDICATED CLOUD WEBSITE. A DIGITAL CLOUD STORAGE SITE WILL BE PROVIDED AT CONSTRUCTION START-UP.
- .7 CONTRACTOR TO SUBMIT RFI'S THROUGH EMAIL FOR FORMAL RECORD.
- .8 CONTRACTOR TO SUBMIT REQUESTS FOR REVIEW BY CONSULTANTS MINIMUM 72HRS IN ADVANCE OF REBAR AND FORM WORKS, ELECTRICAL AND CIVIL ENGINEERING RELATED UTILITY TRENCHING, AND GENERAL PREPARATIONS PRIOR TO LARGE CONCRETE POURS.
- .9 CONTRACTOR WILL RECEIVE TWO COPIES OF THE ISSUE FOR CONSTRUCTION DRAWING SET AND A DIGITAL PDF AT THE TIME OF AWARD. MAINTAIN ONE COPY ON SITE IN CLEAN CONDITION, AND MAINTAIN REGULAR SITE NOTES AND REDLINES REGARDING SITE CHANGES ON THE COPY. PROVIDE THE REDLINE DRAWING SET, AND A MARKED UP PDF SET FOR PROJECT RECORDS AT THE TIME OF SUBSTANTIAL COMPLETION. PROVIDE A SUPPORTING DIGITAL SURVEY OF WORK AS CONSTRUCTED. INCLUDE INVERTS AND RIM ELEVATIONS OF ALL STORM INFRASTRUCTURE. THE VALUE OF THE REDLINE SET AND SURVEY WILL BE A \$10,000 DEFICIENCY ITEM IF NOT PROVIDED AT THE TIME OF SUBSTANTIAL REVIEW.
- .10 INCLUDE A STATUTORY DECLARATION OF PROGRESS PAYMENT AND WCB SUBMITTAL WITH EACH PROGRESS CLAIM. FAILURE TO PROVIDE THESE SUBMITTALS WILL INHIBIT THE CONTRACT ADMINISTRATOR FROM REVIEWING A CLAIM OR PREPARING A PAYMENT CERTIFICATE.

**2.0 SCHEDULE**

- .1 COMPLETE WORK FOR CRITICAL SCHEDULE MILESTONES. FAILURE TO COMPLETE THE MILESTONES MAY TRIGGER THE DAMAGES CLAUSE LISTED IN THE FRONT END OF THE TENDER DOCUMENT.

**3.0 WARRANTY**

- .1 THE PROJECT REQUIRES A ONE YEAR WARRANTY ON ALL HARD AND SOFTSCAPE WORK.
- .2 THE WARRANTY PHASE WILL COMMENCE AT THE TIME OF SUBSTANTIAL COMPLETION OF THE TOTAL CONTRACT.
- .3 ESTABLISHMENT MAINTENANCE OF SOFT LANDSCAPES IS TO BE PROVIDED THROUGH SUBSTANTIAL COMPLETION UNTIL THE TIME OF FINAL ACCEPTANCE OF THE TOTAL CONTRACT WHEN DEFICIENCIES HAVE BEEN AMENDED TO THE SATISFACTION OF THE OWNER, OR AT THE COMPLETION OF THE LIEN 55 DAY HOLDBACK. WHICHEVER DATE IS THE LONGER OF THE TWO WILL BE USED.

**4.0 PERMITS**

- .1 CONTRACTOR TO PROVIDE PERMITS:
  - .1 REFER TO CONTRACT DOCUMENTS (TYP).

**5.0 FIELD LAYOUT AND SURVEY COORDINATION**

- .1 SITE LAYOUT TO BE BASED ON TSS (TOTAL STATIONING SURVEY) OR APPROVED EQUAL GPS METHOD TO ENSURE ACCURACY IN LAYOUT.
- .2 SITE LAYOUT AND SURVEY FILES CAN BE PROVIDED IN AUTOCAD FORMAT AT THE TIME OF CONSTRUCTION START-UP.

**6.0 SITE MOBILIZATION, STAGING, AND SAFETY**

- .1 PROVIDE MOD-U-LOCK FENCE OR APPROVED EQUAL AROUND THE LIMIT OF CONSTRUCTION AND PROTECT THE SITE AT ALL TIMES FROM PUBLIC ACCESS.
- .2 PROVIDE INFORMATION ON INTENDED SITE STORAGE AND STAGING AREA(S) AND HAULING AT CONSTRUCTION START-UP. IF STORAGE OR STAGING AREA(S) ARE TO BE MOVED BETWEEN DIFFERENT PHASES OF WORK, INFORM OWNER AND CONTRACT ADMINISTRATOR AT CONSTRUCTION START-UP WITH MARKED UP PLANS.
- .3 PROVIDE PROOF OF A BC-ONE (BC-1) CALL AT THE TIME OF CONSTRUCTION START-UP MEETING.
- .4 ENSURE ESC (EROSION AND SEDIMENT CONTROL) MEASURES HAVE BEEN REVIEWED PRIOR TO COMMENCING DEMOLITION OR EXCAVATION WORKS OF THE SITE. AMEND ANY ESC RELATED REQUESTS FROM THE ENVIRONMENTAL ENGINEER IMMEDIATELY. PROVIDE PHOTO PROOF AND EMAIL CONFIRMATION TO THE CONTRACT ADMINISTRATOR AND ENVIRONMENTAL ENGINEER FOR APPROVAL PRIOR COMMENCING WORK.
- .5 ENSURE TREE PROTECTION FENCING HAS BEEN REVIEWED PRIOR TO COMMENCING WORK.

**7.0 SITE CLEANLINESS**

- .1 MAINTAIN THE SITE IN A CLEAN AND ORDERLY FASHION AND FOLLOWING BEST PRACTICES WITH CURRENT WCB SAFETY REQUIREMENTS.
- .2 RECYCLE CARDBOARD AND WASTE MATERIALS AS PER WASTE MANAGEMENT AND DISPOSAL PROCEDURES DEFINED UNDER DIVISION 1 OF THE SPECIFICATIONS.
- .3 ENSURE A POWER WASH AND CLEAN-UP HAS BEEN PROVIDED PRIOR TO THE SUBSTANTIAL COMPLETION REVIEW.
- .4 ENSURE CLEAN ROADS AND SITE ENTRY/EXIT THROUGH THE ENTIRE COURSE OF CONSTRUCTION. PROVIDE ADDITIONAL CLEANING AS REQUESTED BY THE CONTRACT ADMINISTRATOR.

**8.0 HARDSCAPES**

- .1 GENERAL REQUIREMENTS
  - .1 ENSURE THAT HARDSCAPES MEET FLUSH WITH ADJOINING SURFACES UNLESS NOTED OTHERWISE.
  - .2 PROVIDE A MOCK-UP AS PER PROJECT SPECIFICATIONS.
  - .3 MOCK-UPS TO INCLUDE A SAMPLE OF JOINT QUALITY, INCLUDING ANY FILLERS OR SEALANTS (I.E. SIKAFLEX) SPECIFIED. REFER TO SPECIFICATIONS.
  - .4 ENSURE JOINT SEALANTS SPECIFIED ARE INSTALLED AS PER MANUFACTURER'S SPECIFICATIONS.
  - .5 INSTALL FILLERS (I.E. MORTAR, GROUT) OR SEALANTS A MINIMUM 48 HOURS PRIOR TO REVIEW OF SITE

- .1 MOCK-UPS TO ENSURE COLOUR IN PRODUCTS HAS SET TO TRUE FINISH.
- .2 ENSURE THAT TRENCHING HAS BEEN REVIEWED AND ACCEPTED PRIOR TO BACKFILLING OF MATERIALS.
- .3 PROVIDE COPIES OF ELECTRICAL TRENCHING REPORTS AND PLUMBING REPORTS PROVIDED BY BUILDING INSPECTION DEPARTMENT TO THE CONTRACT ADMINISTRATOR AND OWNER.
- .4 ENSURE BACKFILL MATERIALS ARE AS PER SPECIFICATIONS.
- .5 PROVIDE SIEVE TESTS AND AFFILIATED SUBMITTALS OF ALL SANDS AND BACKFILL MATERIALS FOR APPROVAL PRIOR TO ORDER AND INSTALLATION. REFER TO SPECIFICATIONS.
- .6 WHEN MEETING A NEW HARDSURFACE TO AN EXISTING HARD SURFACE, PROVIDE NOTICE TO THE CONTRACT ADMINISTRATOR OF ANY CONDITIONS WHERE THE JOINT WILL RESULT IN MORE THAN A 6MM DIFFERENTIAL ( I.E. A NEW CONCRETE SIDEWALK IS MEETING AGAINST AN EXISTING ASPHALT SIDEWALK THAT HAS A SMALL DEPRESSION). DO NOT COMMENCE WORK UNTIL THE CONTRACT ADMINISTRATOR HAS CLARIFIED IF RECTIFICATION OF THE EXISTING SURFACE IS NEEDED TO AVOID TRIPPING HAZARD.
- .7 CONFIRM DESIGN GRADES HAVE BEEN CHECKED PRIOR TO POURING, LAYING OR INSTALLING ANY HARD SURFACE MATERIALS OVER PREPARED BACKFILL.
- .8 REPORT ANY GRADES THAT CONTRADICT BEST CONSTRUCTION PRACTICES IMMEDIATELY TO THE CONTRACT ADMINISTRATOR (I.E WATER FLOWS TOWARDS A BUILDING OR IS GOING TO PUDDLE IN AN AREA, OR AN AREA OF SURFACE APPEARS FLAT). DO NOT PROCEED UNTIL SLOPES AND DESIGN HAVE BEEN CLARIFIED.
- .9 PROVIDE ANY SURVEY SHOTS OR SPOT GRADE CHECKS AS REQUESTED BY CONTRACT ADMINISTRATOR.
- .10 REFER TO CIVIL ENGINEERING DRAWINGS FOR ADDITIONAL HARDSCAPE REQUIREMENTS, AND GEOTECHNICAL REPORT.

**2 CONCRETE PAVING**

- .1 PROVIDE A MOCK-UP AS NOTED ABOVE.
- .2 REFER TO SPECIFICATIONS FOR FURTHER INFORMATION.
- .3 ENSURE ADJOINING CURBS OR BANDS MAINTAIN THE SAME SAW-CUT OR EXPANSION JOINT PATTERNS AS SHOWN IN DESIGN DRAWINGS.
- .4 CHALK-LINE ALL SAW-CUTS FOR REVIEW PRIOR TO CUTTING.
- .5 IN AREAS WITHOUT CUSTOM SAW-CUT OR EXPANSION JOINT PATTERNING, PROVIDE:
  - .1 EXPANSION JOINTS MAXIMUM EVERY 9M ON CENTER.
  - .2 SAW-CUT JOINTS MAXIMUM EVERY 3M ON CENTER.
  - .3 CONFIRM LOCATIONS WITH CONSULTANT PRIOR TO COMMENCING FORMWORK.
- .6 ALL HORIZONTAL FLAT CONCRETE TO HAVE A MEDIUM SANDBLAST FINISH UNLESS NOTED OTHERWISE.
- .7 REFER TO SPECIFICATIONS FOR FURTHER INFORMATION. CONCRETE TO COMPLY WITH STANDARD DIVISION 3 SPECIFICATIONS FOR MMCD PLATINUM SPECIFICATIONS.
- .8 CONCRETE THAT IS REINFORCED MUST BE REVIEWED PRIOR TO POURING. ENSURE REBAR IS 'CHAIR'D' AND SUSTAINED IN AN UPRIGHT POSITION.
- .9 REFER TO CIVIL ENGINEERING DRAWINGS FOR ADDITIONAL CONCRETE PAVING REQUIREMENTS.

**3 ASPHALT PAVING**

- .1 PROVIDE A MOCK-UP AS NOTED ABOVE.
- .2 REFER TO SPECIFICATIONS FOR FURTHER INFORMATION.
- .3 PROVIDE SUBMITTALS THAT DEMONSTRATE UPPER OR LOWER COURSE MIX TYPE AS SPECIFIED.
- .4 ENSURE ASPHALT APPLICATION IS PROVIDED IN A SAFE AND CLEANLY MANNER, SUCH AS TO NOT TRANSFER OR SMEAR BITUMEN THAT COULD POTENTIALLY STAIN THE SITE ELEMENTS.

**4 UNIT PAVING**

- .1 PROVIDE A MOCK-UP AS NOTED ABOVE.
- .2 REFER TO SPECIFICATIONS FOR FURTHER INFORMATION.
- .3 SUBMIT MINIMUM THREE (3) SAMPLES OF EACH UNIT PAVING TYPE SPECIFIED FOR THE PROJECT FOR CONFIRMATION OF COLOUR AND FINISH PRIOR TO COMMENCING MOCK-UP.
- .4 CONFIRM PATTERN, ANGLES, START POINTS FOR LAYOUT, AND ANY SOLDIER OR SAILOR COURSE TERMINATION WITH CONSULTANT PRIOR TO COMMENCING MOCK-UP AND SUBSEQUENT WORK.
- .5 ENSURE UNIT PAVING TERMINATES IN COMPLETE PIECES. IN INSTANCES WHERE AN ANGLE REQUIRES A CUT OF A PAVER, THE PAVER CANNOT BE REDUCED TO LESS THAN A 50MM X 50MM SIZE. STRONGLY CONSIDER THESE CONDITIONS PRIOR TO COMMENCING LAYOUT.
- .6 IMMEDIATELY NOTIFY CONTRACT ADMINISTRATOR IF JOINT SPACING OF MANUFACTURER'S SPECIFICATIONS CONFLICTS WITH DRAWING DETAILS. DO NOT PROCEED WITH WORK UNTIL JOINT SPACING HAS BEEN CLARIFIED.

**9.0 WALLS**

- .1 GENERAL REQUIREMENTS
  - .1 PROVIDE MOCK-UP FOR REVIEW OF FORM, QUALITY AND FINISH PRIOR TO INSTALLING ADDITIONAL WORK. REFER TO SPECIFICATIONS.
  - .2 MOCK-UPS TO INCLUDE A SAMPLE OF JOINT QUALITY, INCLUDING ANY FILLERS, EPOXIES OR SEALANTS (I.E. SIKAFLEX) SPECIFIED.
  - .3 ENSURE JOINT EPOXIES AND SEALANTS SPECIFIED ARE INSTALLED AS PER MANUFACTURER'S SPECIFICATIONS.
  - .4 MOCK-UPS TO INCLUDE ANY GEO-GRID OR SUPPORTING ANCHOR SYSTEM REQUIREMENTS. SUBMIT MATERIAL PRODUCT INFORMATION FOR APPROVAL PRIOR TO COMMENCING MOCK-UP.
  - .5 INSTALL FILLERS (I.E. MORTAR, GROUT) OR SEALANTS A MINIMUM 48 HOURS PRIOR TO REVIEW OF SITE MOCK-UPS TO ENSURE COLOUR IN PRODUCTS HAS SET TO TRUE FINISH.
  - .6 ENSURE REINFORCING HAS BEEN REVIEWED BY CONSULTANT AND STRUCTURAL ENGINEER. REVIEWER CONTACT WILL BE PROVIDED AT CONSTRUCTION KICK-OFF MEETING.
  - .7 ENSURE THAT TRENCHING HAS BEEN REVIEWED AND ACCEPTED PRIOR TO BACKFILLING OF MATERIALS.
  - .8 ENSURE BACKFILL MATERIALS ARE AS PER SPECIFICATIONS.
  - .9 PROVIDE SIEVE TESTS AND AFFILIATED SUBMITTALS OF ALL SANDS AND BACKFILL MATERIALS FOR APPROVAL PRIOR TO ORDER AND INSTALLATION. REFER TO SPECIFICATIONS.
  - .10 REPORT ANY ISSUES THAT CONTRADICT BEST CONSTRUCTION PRACTICES IMMEDIATELY TO THE CONTRACT ADMINISTRATOR (I.E A RETAINING WALL DOES NOT HAVE A DRAIN BEHIND IT). DO NOT PROCEED UNTIL DESIGN HAS BEEN CLARIFIED.
  - .11 PROVIDE ANY SURVEY SHOTS OR SPOT GRADE CHECKS AS REQUESTED BY CONTRACT ADMINISTRATOR.
  - .12 REFER TO CIVIL ENGINEER, STRUCTURAL ENGINEER AND ELECTRICAL ENGINEER'S DRAWINGS FOR ADDITIONAL REQUIREMENTS, AS WELL AS GEOTECHNICAL REPORT. REPORT DISCREPANCIES IMMEDIATELY TO CONTRACT ADMINISTRATOR.
  - .13 REFER TO SPECIFICATIONS FOR FURTHER INFORMATION.

**2 CONCRETE WALLS (IF REQUIRED):**

- .1 PROVIDE A MOCK-UP. REFER TO SPECIFICATIONS.
- .2 REFER TO SPECIFICATIONS FOR FURTHER INFORMATION.
- .3 WALLS TO RECEIVE A 13MM ROUNDED BEVEL ('FILLET') UNLESS NOTED OTHERWISE.
- .4 CHALK-LINE ALL SAW-CUTS FOR REVIEW PRIOR TO CUTTING.
- .5 IN AREAS WITHOUT CUSTOM SAW-CUT OR EXPANSION JOINT PATTERNING, PROVIDE:
  - .1 EXPANSION JOINTS MAXIMUM EVERY 9M ON CENTER.
  - .2 SAW-CUT JOINTS MAXIMUM EVERY 3M ON CENTER.
  - .3 CONFIRMATION OF LOCATIONS WITH CONSULTANT PRIOR TO COMMENCING FORMWORK.
  - .4 ENSURE A MINIMUM 40MM CONCRETE BETWEEN SAW-CUT AND REBAR INSIDE THE CONCRETE FORM.
- .6 PROVIDE A MINIMUM 75MM (3") COVER OF CONCRETE OVER ALL CONCRETE REINFORCING, WITH THE EXCEPTION OF CONTROL JOINTS AS NOTED ABOVE.
- .7 ALL VERTICAL CONCRETE TO RECEIVE A LIGHT SANDBLAST FINISH UNLESS NOTED OTHERWISE.
- .8 REFER TO SPECIFICATIONS FOR FURTHER INFORMATION. CONCRETE TO COMPLY WITH STANDARD DIVISION 3 SPECIFICATIONS FOR MMCD PLATINUM SPECIFICATIONS, AND CCDC MASTER SPECIFICATIONS RESPECTIVELY.
- .9 CONCRETE THAT IS REINFORCED MUST BE REVIEWED PRIOR TO POURING.
- .10 REFER TO CIVIL ENGINEER, STRUCTURAL ENGINEER AND ELECTRICAL ENGINEER'S DRAWINGS FOR ADDITIONAL REQUIREMENTS, AS WELL AS GEOTECHNICAL REPORT. REPORT DISCREPANCIES IMMEDIATELY TO CONTRACT ADMINISTRATOR.
- .11 REFER TO SPECIFICATIONS FOR FURTHER INFORMATION.

**3 SEGMENTAL RETAINING WALLS (IF REQUIRED):**

- .1 PROVIDE A MOCK-UP AS PER SPECIFICATIONS
- .2 PROVIDE SUBMITTALS AS PER SPECIFICATIONS.
- .3 CONFIRM PRODUCT COLOUR AND FINISH PRIOR TO PREPARING MOCK-UP.
- .4 GEO-SYNTHETIC SUPPORT: ENSURE PRODUCT IS REVIEWED PRIOR TO ORDER. CONFIRM SIZE AND DEPTH OF MATERIAL. INSTALL AS PER MANUFACTURER'S SPECIFICATIONS. NOTE: IMMEDIATELY CONTACT CONTRACT ADMINISTRATOR IF BACKFILL DEPTH OR MATERIAL SHOW IN MANUFACTURER'S SPECIFICATIONS CONTRADICTS REQUIREMENTS SHOWN IN CONSULTANT DRAWINGS OR GEOTECHNICAL REPORT.
- .5 REBAR SUPPORT: ENSURE REBAR IS REVIEWED BY CONSULTANT PRIOR TO MORTAR SACKING OR ALTERNATE FORM OF CONCEALMENT.
- .6 WALL CAPS: MITRE CORNERS. ENSURE CLEAN POINTED EDGES.
- .7 REFER TO SPECIFICATIONS FOR FURTHER INFORMATION.

**10.0 METALS**

- .1 REFER TO PROJECT SPECIFICATIONS FOR FURTHER INFORMATION.
- .2 SUBMIT SHOP DRAWINGS FOR METAL WORKS (I.E. FENCES, FASTENERS AND RAILINGS). REFER TO SPECIFICATIONS.
- .3 TREAT METAL WORK FOR PROTECTION FROM CORROSION AND ABRASION. STEEL TO BE GALVANIZED OR STAINLESS. ALUMINUM TO BE ANODIZED. THIS APPLIES TO FASTENERS.
- .4 ENSURE ANCHOR PLATES, HANGERS, AND AFFILIATED FASTENER JOINING MATERIALS MEET FLUSH BETWEEN JOINING SURFACES WITHOUT GAPS, UNLESS SPECIFIED OTHERWISE.
- .5 COMPLETE METAL BONDING (I.E. WELDING, SOLDERING) SUCH THAT WORK IS TREATED FOR PROTECTION AND WILL NOT CORRODE.
- .6 CONCEAL BONDING WORK IN THE FINISHING OF THE METAL WORK.
- .7 ENSURE SMOOTH FINISH WITH SANDING OR OTHER APPLICABLE HANDWORK NEEDED TO PROVIDE SMOOTH AND CONSISTENT APPEARANCE.
- .8 INSTALL A GROUNDING ROD FOR ALL VERTICAL METAL ELEMENTS TALLER THAN 1800MM IN HEIGHT.
- .9 ENSURE SHOP DRAWINGS WITH PICKETS OR RAILINGS COMPLY WITH BC BUILDING CODE REQUIREMENTS (I.E. RAILING HEIGHT, PICKET SPACING).
- .10 POWDERCOAT APPLICATIONS: ENSURE METAL IS PRETREATED (I.E. GALVANIZED) OR ALTERNATE PROTECTION PROCESS PRIOR TO POWDER COATING. CONFIRM VIA SHOP DRAWING.

**11.0 WOOD**

- .1 REFER TO SPECIFICATIONS FOR FURTHER INFORMATION.
- .2 SUBMIT SHOP DRAWINGS FOR WOOD WORKS (I.E. DECKING, BENCHES, CUSTOM ELEMENTS). REFER TO SPECIFICATIONS.
- .3 ENSURE WOOD DOES NOT CRACK OR SPLINTER WITH FASTENER CONNECTIONS. PRE-DRILL AND COUNTERSINK AS NEEDED TO PROVIDE SMOOTH CONNECTIONS, UNLESS SPECIFIED OTHERWISE.
- .4 ENSURE WOOD IS FREE OF SPLINTERS, SLIVERS, AND INCONSISTENCES.
- .5 ENSURE WOOD IS FREE OF DEFECTS THAT COULD IMPACT STRUCTURAL INTEGRITY.
- .6 ENSURE WOOD HAS NO EXPOSED SHARP EDGES. SAND SMOOTH UNLESS SPECIFIED OTHERWISE.
- .7 TREAT CUTS WITH SPECIFIED WOOD PRESERVATIVE SOLUTION OR ALTERNATE.

**12.0 EDGERS**

- .1 SUBMIT SHOP DRAWINGS FOR REVIEW OF ALL SPECIFIED EDGER PRODUCTS. INCLUDE INSTALLATION GUIDES WHEN AVAILABLE BY MANUFACTURER.

**13.0 DRAINAGE**

- .1 SUBMIT SHOP DRAWINGS FOR REVIEW OF ALL SPECIFIED DRAINAGE FEATURES. THIS APPLIES TO PRE-MANUFACTURED PRODUCTS AND CUSTOM DETAILS. INCLUDE INSTALLATION GUIDES WHEN AVAILABLE BY MANUFACTURER.

**14.0 LANDSCAPE LIGHTING**

- .1 SUBMIT SHOP DRAWINGS FOR REVIEW OF ALL SPECIFIED LIGHTING. THIS APPLIES TO PRE-MANUFACTURED PRODUCTS AND CUSTOM DETAILS. INCLUDE COLOUR AND FINISH INFORMATION WITH DRAWINGS, INCLUDING INFORMATION ON ALL FASTENERS. INCLUDE INSTALLATION GUIDES WHEN AVAILABLE BY MANUFACTURER.

**15.0 SITE FURNISHINGS**

- .1 SUBMIT SHOP DRAWINGS FOR REVIEW OF ALL SPECIFIED SITE FURNISHINGS. THIS APPLIES TO PRE-MANUFACTURED PRODUCTS AND CUSTOM DETAILS. INCLUDE COLOUR AND FINISH INFORMATION WITH DRAWINGS, INCLUDING INFORMATION ON ALL FASTENERS. INCLUDE INSTALLATION GUIDES WHEN AVAILABLE BY MANUFACTURER.

**16.0 SOFT LANDSCAPES**

- .1 REFER TO SPECIFICATIONS AND DRAWINGS FOR ADDITIONAL INFORMATION.
- .2 SOFTLANDSCAPE SUPPLY, SUBMITTALS, PREPARATION AND EXECUTION TO COMPLY WITH CANADIAN LANDSCAPE STANDARD (BRITISH COLUMBIA). FULL DOCUMENT APPLIES.
- .3 ENSURE CONTRACTOR INSTALLING SOFTLANDSCAPES HAS A CURRENT COPY OF THE CANADIAN LANDSCAPE STANDARD (BRITISH COLUMBIA) PRESENT ON SITE.
- .4 SUBMIT REQUEST FOR REVIEW BY CONSULTANT OF SITE SOFT LANDSCAPE FINE GRADING PRIOR TO INSTALLATION OF SOD OR SEED.
- .5 PLANTS AND TREES:
  - .1 PROVIDE CONSULTANT WITH OPPORTUNITY TO REVIEW PLANT STOCK AT NURSERY PRIOR TO SHIPMENT TO SITE. CONSULTANT RESERVES RIGHT TO REJECT STOCK ON SITE WHEN INCONSISTENT FROM NURSERY SAMPLE STOCK. PROVIDE CONSULTANT OPPORTUNITY TO REVIEW TREES AT NURSERY AND TAG PREFERRED TREE STOCK FOR THE PROJECT THAT COMPLIES WITH DRAWING SIZE, SPECIES, AND FORM. ONE (1) WEEK NOTICE IS REQUIRED FOR NURSERY REVIEW.
  - .2 GROWING MEDIUM TO BE "LEVEL 2 GROOMED, 2P" AS PER CHART 6.3.5.1 IN CHAPTER 6 OF THE CANADIAN LANDSCAPE STANDARD (BRITISH COLUMBIA). MINIMUM 450MM DEPTH REQUIRED FOR PLANTINGS UNLESS NOTED OTHERWISE. TREES REQUIRE ADDITIONAL DEPTH, AS PER TREE INSTALLATION REQUIREMENTS SHOWN IN THE CANADIAN LANDSCAPE STANDARD (BRITISH COLUMBIA).
  - .3 SUBMIT GROWING MEDIUM REPORT FOR REVIEW PRIOR TO ORDER OR INSTALLATION. REPORT TO MATCH TABLE 6.3.5.3 "PROPERTIES OF GROWING MEDIA FOR LEVEL 2 "GROOMED" AREAS". ADDITIONAL GROWING MEDIUM REPORT REQUIREMENTS ARE PROVIDED IN PROJECT SPECIFICATIONS.
  - .4 MULCH:
    - .1 TO BE DARK BROWN (NOT RED) IN COLOUR. 1L SAMPLE REQUIRED FOR REVIEW PRIOR TO PURCHASE.
    - .2 TO COMPLY WITH CANADIAN LANDSCAPE STANDARD (BRITISH COLUMBIA).
    - .3 REQUIRED FOR ALL NEW TREE AND SHRUB PLANTINGS UNLESS NOTED OTHERWISE.
    - .4 BARK MULCH TO BE INCLUDED IN TREE AND SHRUB UNIT PRICING RESPECTIVELY. MULCH TO BE ORGANIC COMPOSTED BARK MULCH, COMPLIANT WITH CANADIAN LANDSCAPE STANDARDS, PAGE 128, 10.2.2. A ONE (1) LITRE MULCH SUBMITTAL IS REQUIRED FOR APPROVAL PRIOR TO PURCHASE AND INSTALLATION. DEPTH OF MULCH TO BE 50MM (2") AFTER SETTLEMENT WITH COMPLETE COVERAGE. ENSURE DARK BROWN COLOUR. PROVIDE MULCH RING OF 3" DIAMETER, COMPLIANT WITH BC LANDSCAPE STANDARDS FOR EACH TREE. PROVIDE CONTINUOUS MULCH FOR SHRUB BEDS (ALL LINEAL PLANTINGS) SO THAT SHRUBS HAVE 100% COMPLETE COVERAGE OF ROOT ZONES. COMPLETE FROM SHRUB TO SHRUB.
- .6 LAWN:
  - .1 SUBMIT SEED CERTIFICATES AND SOD REPORT FOR REVIEW PRIOR TO PURCHASE. ALL SOD OR SEED TO BE "ALL PURPOSE SUN SHADE MIX" UNLESS SPECIFIED OTHERWISE. ENSURE SOD AND SEED ARE NO. 1 TURFGRASS AND NO 1. CANADIAN SEED AS PER CANADIAN LANDSCAPE STANDARD (BRITISH COLUMBIA).
  - .2 SOD TO BE NON-NETTED.
  - .3 GROWING MEDIUM TO BE "LEVEL 2 GROOMED, 2H" AS PER CHART 6.3.5.1 IN CHAPTER 6 OF THE CANADIAN LANDSCAPE STANDARD (BRITISH COLUMBIA). MINIMUM 150MM DEPTH REQUIRED FOR INSTALLATION UNLESS NOTED OTHERWISE.
  - .4 SUBMIT GROWING MEDIUM REPORT FOR REVIEW PRIOR TO ORDER OR INSTALLATION. REPORT TO MATCH TABLE 6.3.5.3 "PROPERTIES OF GROWING MEDIA FOR LEVEL 2 "GROOMED" AREAS". ADDITIONAL GROWING MEDIUM REPORT REQUIREMENTS ARE PROVIDED IN PROJECT SPECIFICATIONS.
  - .5 ENSURE AREAS AT EDGE OF LIMIT OF CONSTRUCTION ARE APPROPRIATELY BLENDED TO MEET EXISTING UNDISTURBED LAWNS. PROVIDE A MINIMUM 50MM IMPORTED GROWING MEDIUM TO BLEND PROPERLY. PROVIDE ADDITIONAL GROWING MEDIUM AS NEEDED.
  - .6 COMPLETE ESTABLISHMENT (MINIMUM TWO CUTS) REQUIRED AS PER CANADIAN LANDSCAPE STANDARD (BRITISH COLUMBIA).
  - .8 PLANTED BIO-SWALES OR RAINGARDEN FEATURES:
    - .1 FILTER FABRIC AND DRAIN ROCK TO BE USED AS A MULCH SUBSTITUTE IN THE BOTTOM OF FEATURES UNLESS NOTED OTHERWISE. PROVIDE SAMPLE OF RIVER ROCK FOR REVIEW. PROVIDE FILTER FABRIC SUBMITTAL AND TECHNICAL SHEETS FOR REVIEW.
    - .9 THE CONSULTANT MAY REQUEST, AT THE CONTRACTOR'S EXPENSE, UP TO TWO TESTS OF GROWING MEDIUM IF SUSPECTED INCONSISTENCES APPEAR. TESTS SAMPLES WILL BE SUBMITTED TO PACIFIC SOIL ANALYSIS INC. IN RICHMOND BC. SUITE 5 11720 VOYAGUER WAY, RICHMOND, BC, V6X 3G9.
    - .10 ESTABLISHMENT MAINTENANCE AND WATERING: REFER TO SECTION 1.0 OF THESE LANDSCAPE NOTES. REFER TO EXTERIOR MAINTENANCE SPECIFICATION.
    - .11 WARRANTY: REFER TO SECTION 1.0 OF THESE LANDSCAPE NOTES.

LEGAL DESCRIPTION			
SURVEY BENCHMARK			
REV.	DATE	DESCRIPTION	BY
6	FEB 14, 2018	HAP UPDATE	LN

**CONSULTANT**



ISL Engineering and Land Services

SUITE 301, 20338 - 65 AVENUE  
LANGLEY, BRITISH COLUMBIA, V2Y 2X3  
(604) 530-2285 FAX: (604) 530-1132



**CLIENT**

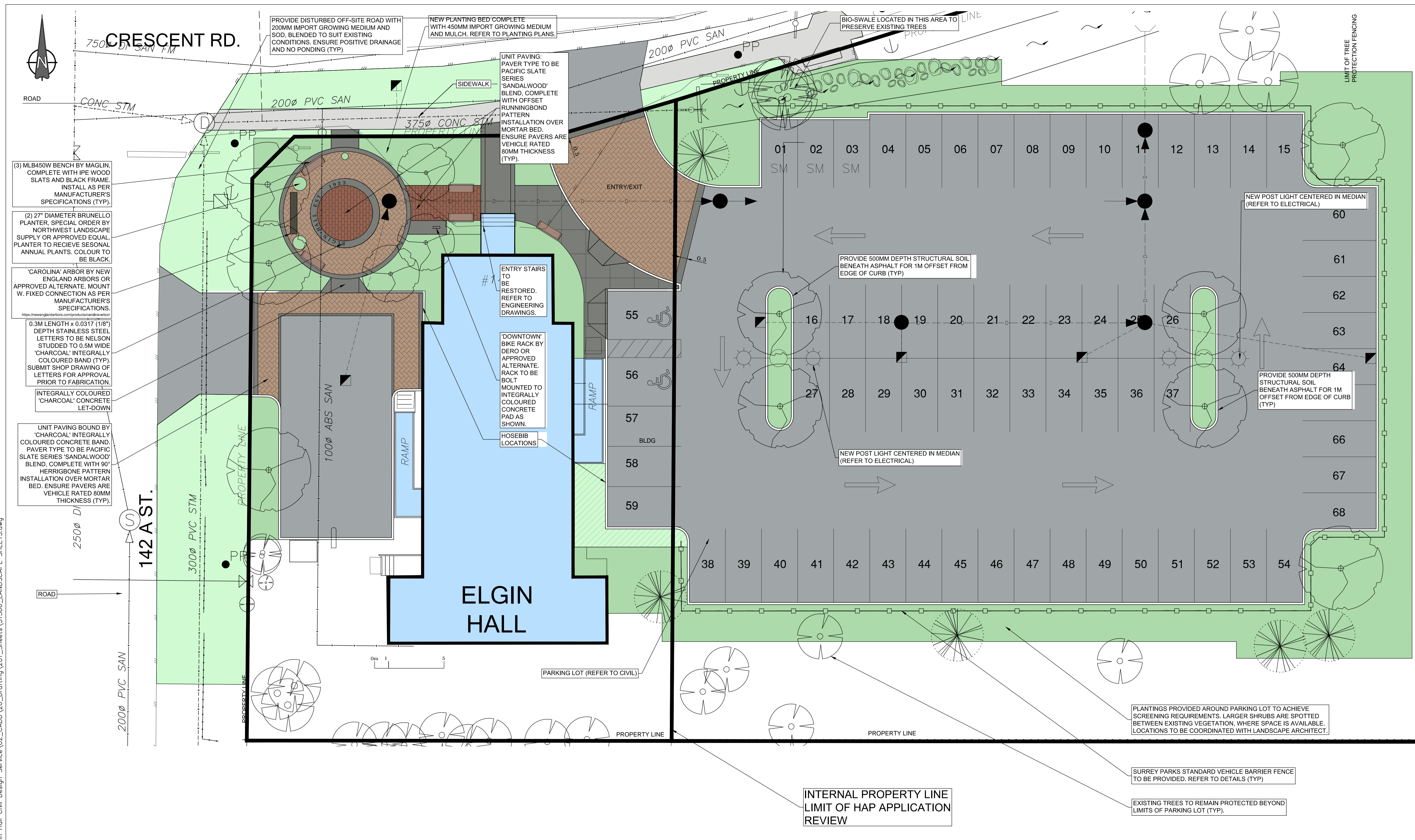
**City of Surrey**  
13450 104 Ave. Surrey, BC,  
Canada V3T 1V8

**TITLE ELGIN HALL PARKING UPGRADE  
LANDSCAPE NOTES**

SEAL	SCALE: HOR. 1:200 VERT. n/a	DATE (YYYY.MM.DD) 18-02-14	SURREY PROJECT NUMBER <b>15-0411</b>
	DESIGNED JL	CONSULTANT PROJ. NO. <b>31566</b>	SURREY DRAWING NUMBER
	DRAWN LN	DWG. NO. <b>L1</b>	
	REVIEWED JL	REV. <b>6</b>	

H:\projects\31566\_CoS\_Elgin\_Hall\_Civil\_Design\_Service\02\_CADD\20\_Drafting\201\_Sheets\31566\_LANDSCAPE\_SHEETS.dwg





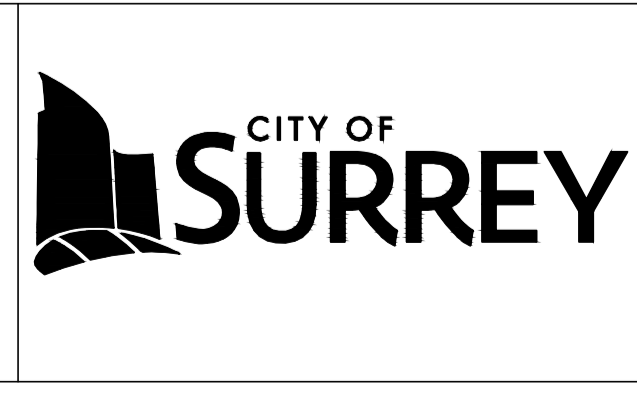
REV.	DATE	DESCRIPTION	BY
6	FEB 14, 2018	HAP UPDATE	LN

LEGAL DESCRIPTION	
SURVEY BENCHMARK	

CONSULTANT

**ISL Engineering and Land Services**

SUITE 301, 20338 - 65 AVENUE  
LANGLEY, BRITISH COLUMBIA, V2Y 2X3  
(604) 530-2288 FAX: (604) 530-1132



CLIENT

**City of Surrey**  
13450 104 Ave. Surrey, BC,  
Canada V3T 1V8

TITLE **ELGIN HALL PARKING UPGRADE  
LANDSCAPE PLAN**

SCALE:	HOR. 1:100 VERT. n/a	DATE (YYYY.MM.DD) 18-02-14	SURREY PROJECT NUMBER 15-0411
DESIGNED	LN	CONSULTANT PROJ. NO. 31566	SURREY DRAWING NUMBER
DRAWN	JS	DWG. NO. L2	
REVIEWED	JL	REV. 6	

SEAL	
------	--

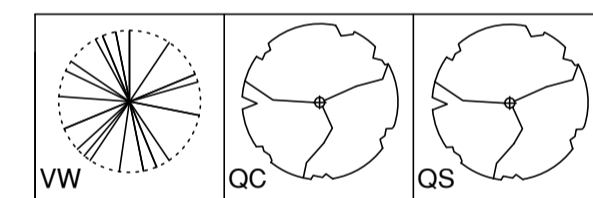
**HARDSURFACE MATERIALS LEGEND**

KEY	DETAIL #	DESCRIPTION	KEY	DETAIL #	DESCRIPTION
	4 L6	UNIT PAVING Paver type to be Pacific Slate Series 'Sandalwood' blend, complete with 90° herringbone pattern installation over mortar bed. Ensure pavers are vehicle rated 80mm thickness (typ).		1 L6	SANDBLASTED CONCRETE Concrete to be saw-cut and sandblasted in lieu of broom finish.
	4 L6	UNIT PAVING Paver type to be Pacific Slate Series 'Sandalwood' blend, complete with runningbond pattern installation over mortar bed. Ensure pavers are vehicle rated 80mm thickness (typ).			PARKING LOT / SIDEWALK SURFACING Refer to civil drawings.
	1 L6	INTEGRALLY COLOURED CONCRETE Integrally coloured concrete in 'Charcoal'.			

**LANDSCAPE ELEMENTS LEGEND**

KEY	DETAIL #	DESCRIPTION	KEY	DETAIL #	DESCRIPTION
	2 L7	PLANTER 27" diameter Brunello Planter, special order by Northwest Landscape Supply or approved equal. Planter to receive seasonal annual plants. Colour to be black.		4 L7	ARBOR 'Carolina' arbor by New England Arbors or approved alternate. Mount with fixed connection as per manufacturer's specifications. <a href="https://www.newenglandarbors.com/products/carolina-arbor/">https://www.newenglandarbors.com/products/carolina-arbor/</a>
	1 L7	BIKE RACK 'Downtown' bike rack by Dero or approved alternate. Rack to be bolt mounted to integrally coloured concrete pad as shown.		3 L5	SHRUB PLANTING BED
	3 L7	BENCH MLB450W bench by Maglin, complete with ipe wood slats and black frame. Install as per manufacturer's specifications (typ).		6 L5	LAWN

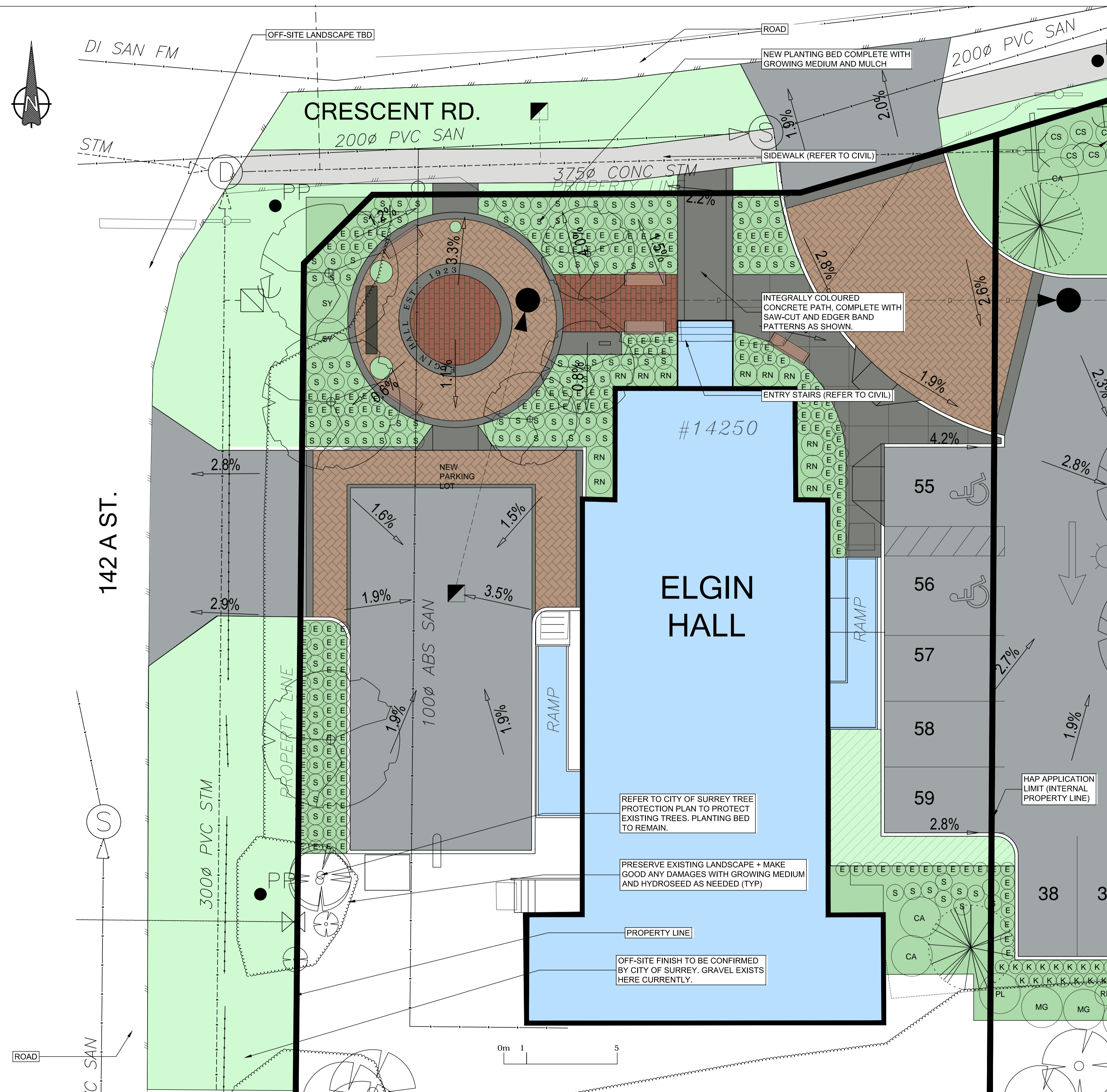
**TREE KEY**

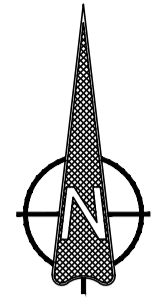


**TREES AND PLANTINGS**

KEY	QTY	BOTANICAL NAME	COMMON NAME	SIZE	SPACING (O.C.)
<b>Trees</b>					
QC	08	Quercus coccinea	Scarlet Oak	B&B; 8cm caliper, 1.8m standard, specimen	Plant as shown
QS	05	Quercus robur x quercus alba "Crimschmidt"	Crimson Spire Oak	B&B; 8cm caliper, 1.8m standard, specimen	Plant as shown
VW	05	Pinus flexis 'vanderwolf'	Vanderwolf's Pine	B&B; 3m ht, specimen	Plant as shown
<b>Shrub plantings and groundcovers</b>					
CA	02	Camellia sasanqua 'MonDel'	Peek-a-boo Camellia	#3 Pot; full	1.8m o.c.
CS	122	Cornus sericea	Red dogwood	#3 pot; full; min 3 stems from base	1.0m o.c.
SY	04	Syringa x Bloomerang	Bloomerang® Purple Reblooming Lilac	#3 Pot; full	1.8m o.c.
S	152	Spiraea media 'SMSMBK' P.P.#26.665, Can. P.B.R.A.F	Double Play® Blue Kazoo™ Spirea	#2 Pot; full	0.75m o.c.
E	167	Euonymus japonicus 'microphylla'	Boxleaf euonymous	#2 Pot; full	0.60m o.c.
	190	Isotoma fluviatilis Blue Star Creeper	Blue Star Creeper (lawn substitute groundcover)	SP4	0.30m o.c.
K	262	Arctostaphylos uva-ursi	Kinnickinnick	#1 Pot; full	0.60m o.c.
MG	5	Myrica gale	Native wax myrtle	#3Pot; full; to be field located with Land. Arch.	Approx 1.8m o.c.
PL	13	Philadelphus lewisii	Native mock-orange	#3Pot; full; to be field located with Land. Arch.	Approx 1.8m o.c.
RN	122	Rosa nutkana	Nutkana Rose	#2 Pot; full	1.0m o.c.
L	9	Liriope muscari	Lily turf	#2 Pot; full	0.5m o.c.
<b>Entry lawn</b>					
	110m2	Provide chafer beetle resistant sodded lawn, over 150mm of imported growing medium; compliant with Canadian Landscape Standards "Level 2L" lawn mix.Sod to be from Western Turf Farms or approved alternate supplier.			

\*All tree locations to be staked for review. See planting notes.  
 \* Trees to receive a minimum of 6m3 of growing medium; at a 900mm depth.  
 \* Shrubs to receive a minimum of 450mm depth import growing medium, compliant with "Level 2P" growing media definitions, as per Canadian Landscape Standards  
 \* Lawn and/or lawn substitutes to receive 150mm depth import growing medium, compliant with "Level 2L" growing media definitions, as per Canadian Landscape Standards





SIDEWALK (REFER TO CIVIL)

ENTRY STAIRS

MATCHLINE

ELGIN HALL

ASPHALT PARKING LOT (REFER TO CIVIL)

BIO-SWALE MOVED TO THIS AREA TO PRESERVE EXISTING TREES

EXISTING TREES TO REMAIN PROTECTED BEYOND LIMITS OF PARKING LOT (TYP.)

NEW POST LIGHT CENTERED IN MEDIAN (REFER TO ELECTRICAL)

NEW POST LIGHT CENTERED IN MEDIAN (REFER TO ELECTRICAL)

INTERNAL PROPERTY LINE (LIMIT OF HAP PERMIT REVIEW)

PLANTINGS PROVIDED AROUND PARKING LOT TO ACHIEVE SCREENING REQUIREMENTS. LARGER SHRUBS ARE SPOTTED BETWEEN EXISTING VEGETATION, WHERE SPACE IS AVAILABLE. LOCATIONS TO BE COORDINATED WITH LANDSCAPE ARCHITECT.

REFER TO CITY OF SURREY TREE PROTECTION PLAN TO PROTECT EXISTING TREES

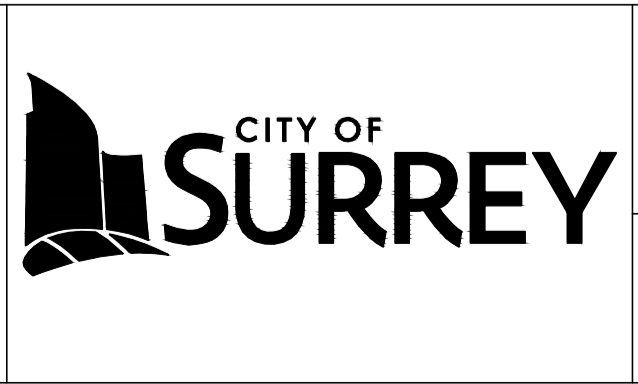
LIMIT OF TREE PROTECTION FENCING - REFER TO ARBORIST REPORT

H:\projects\31566\_CoS\_Elgin\_Hall\_Civil\_Design\Service\02\_CADD\20\_Drafting\201\_Sheets\31566\_LANDSCAPE\_SHEETS.dwg

REV.	DATE	DESCRIPTION	BY
6	FEB 14, 2018	HAP UPDATE	LN

CONSULTANT

SUITE 301, 20338 - 65 AVENUE  
LANGLEY, BRITISH COLUMBIA, V2Y 2X3  
(604) 530-2288 FAX: (604) 530-1132



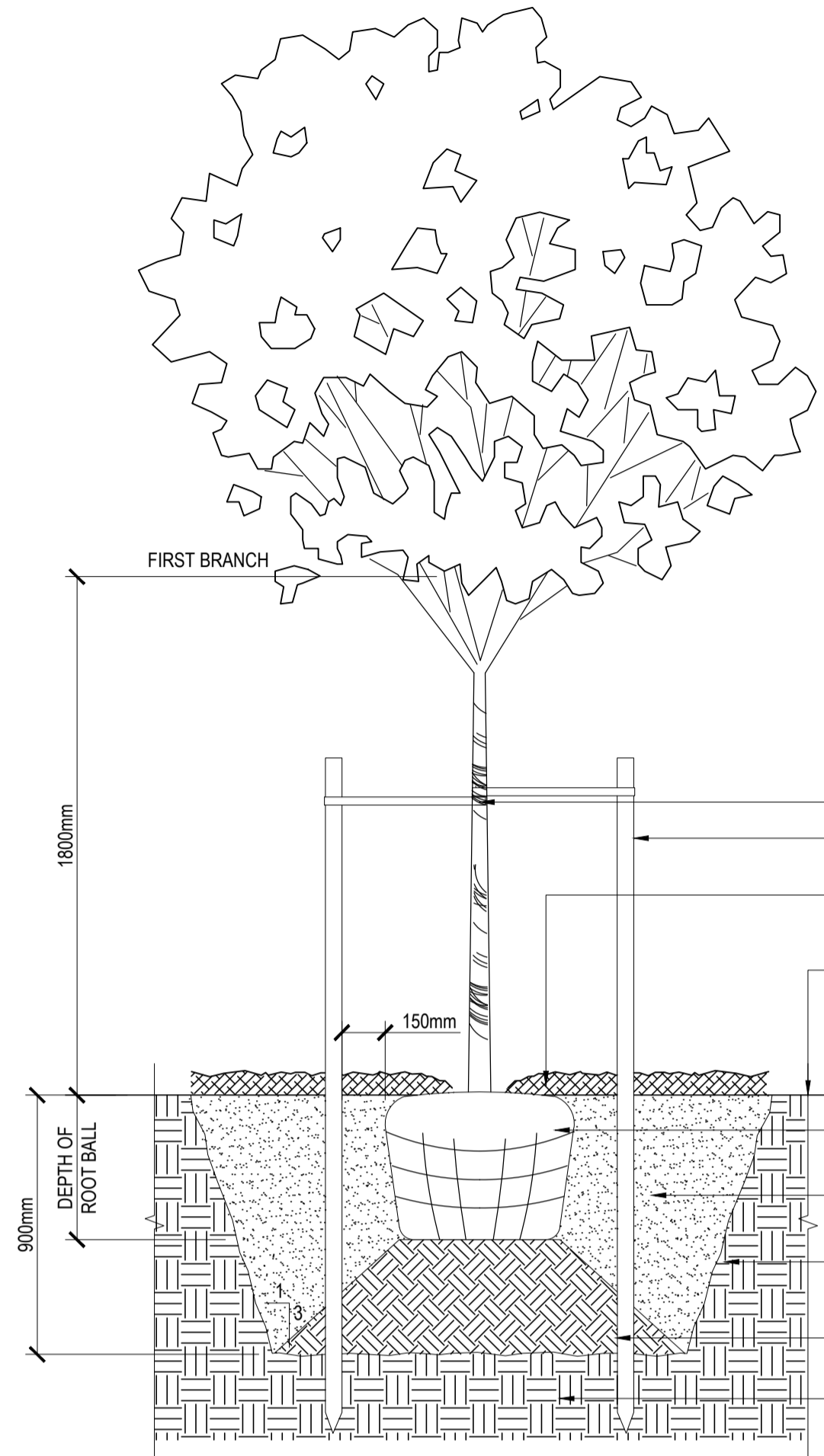
CLIENT

**City of Surrey**  
13450 104 Ave. Surrey, BC,  
Canada V3T 1V8

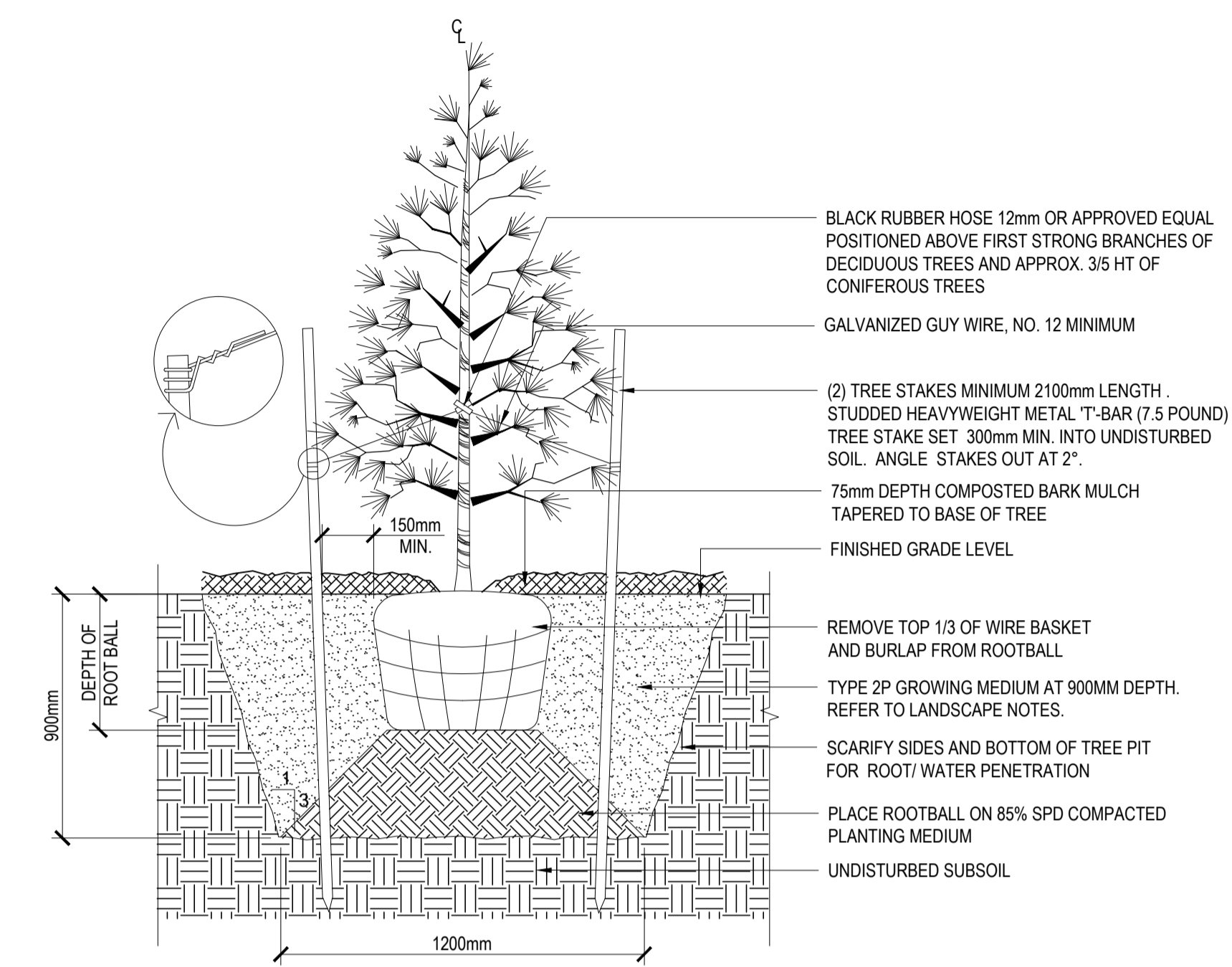
TITLE **ELGIN HALL PARKING UPGRADE**  
LANDSCAPE PLANTING PLAN - EAST

SCALE: HOR. 1:100 VERT. n/a	DATE (YYYY-MM-DD) 18-02-14	SURREY PROJECT NUMBER 15-0411
DESIGNED JL	CONSULTANT PROJ. NO. 31566	SURREY DRAWING NUMBER
DRAWN LN	DWG. NO. L4	REV. 6
REVIEWED JL		

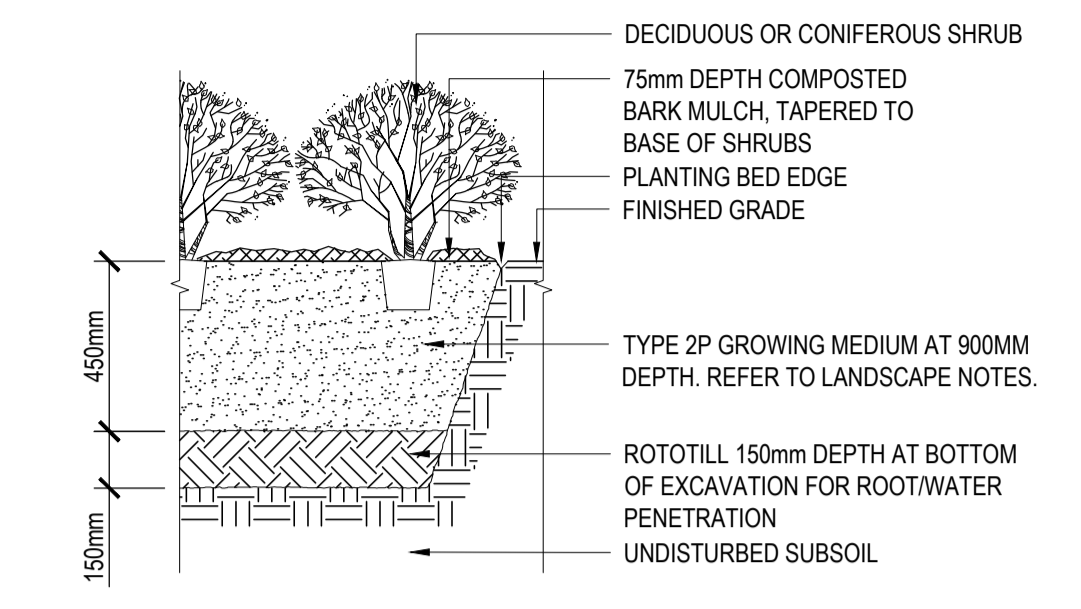
DESTROY ALL PRINTS BEARING PREVIOUS NUMBER



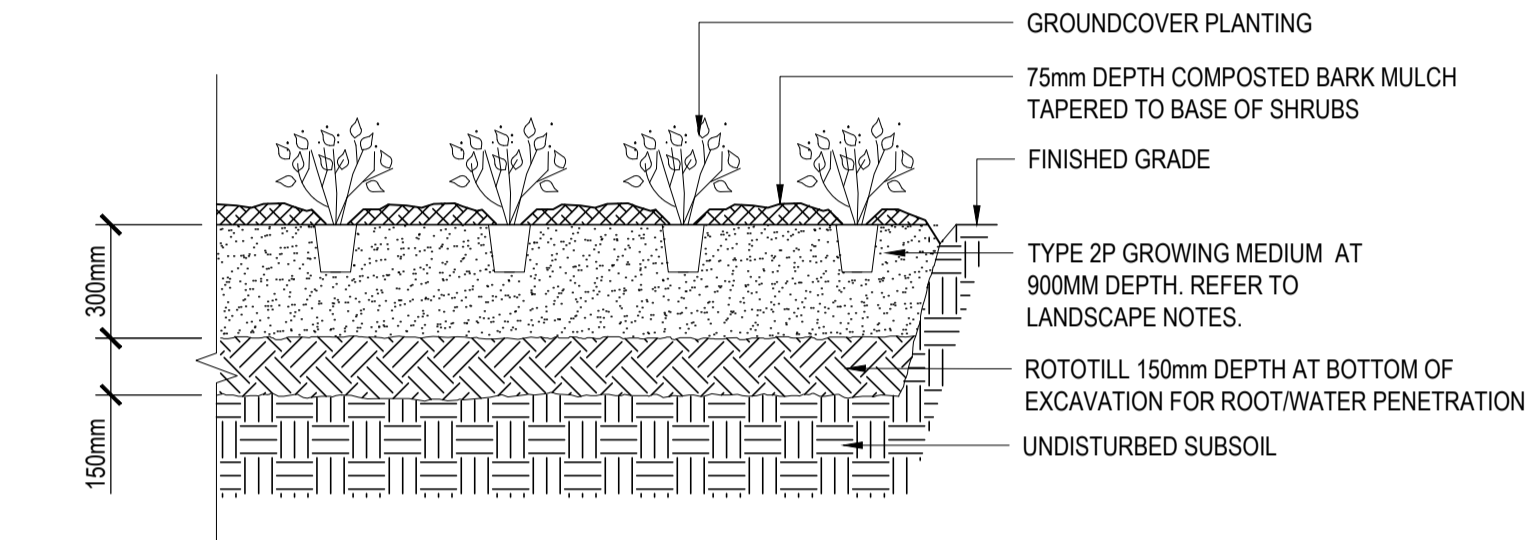
1 L5 DECIDUOUS TREE PLANTING 1:20



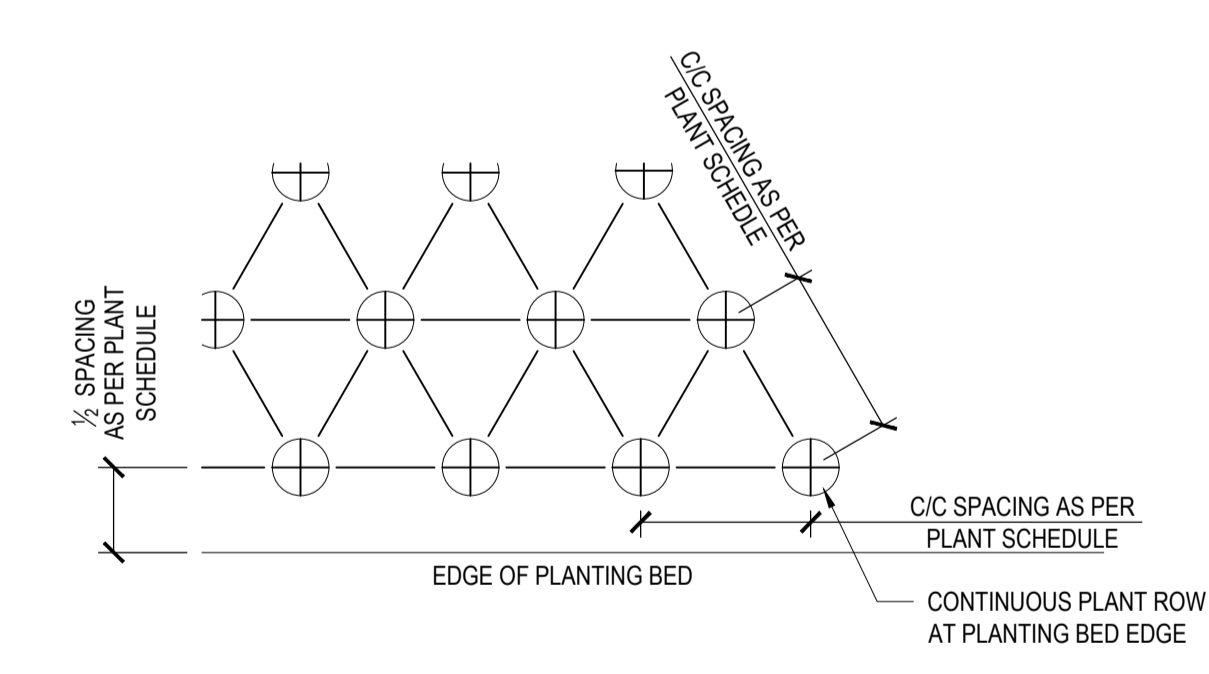
2 L5 CONIFEROUS TREE PLANTING 1:20



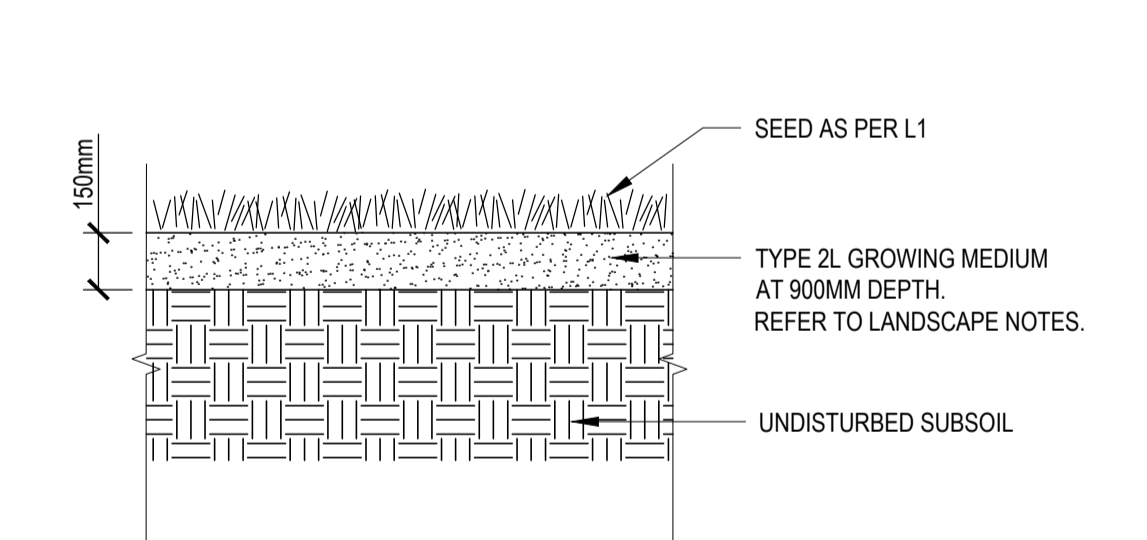
3 L5 SHRUB PLANTING 1:20



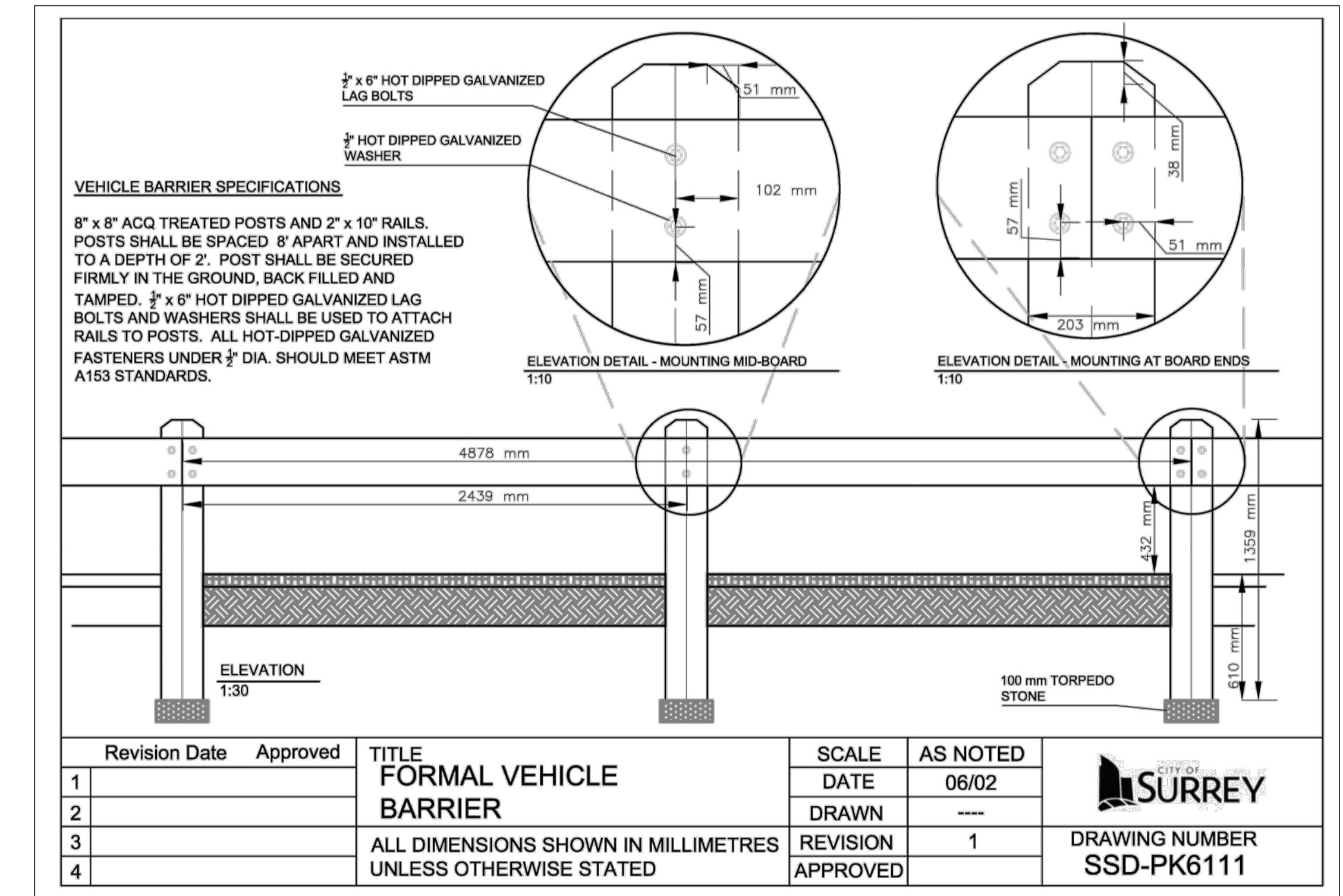
4 L5 GROUNDCOVER PLANTING 1:20



5 L5 SHRUB + GROUNDCOVER SPACING PLAN 1:20



6 L5 HYDROSEEDED LAWN 1:20



7 L5 TWO RAIL SPLIT FENCE N/A

Revision	Date	Approved	Title	Scale	As Noted
1			FORMAL VEHICLE BARRIER		06/02
2					
3			ALL DIMENSIONS SHOWN IN MILLIMETRES UNLESS OTHERWISE STATED	REVISION	1
4				APPROVED	

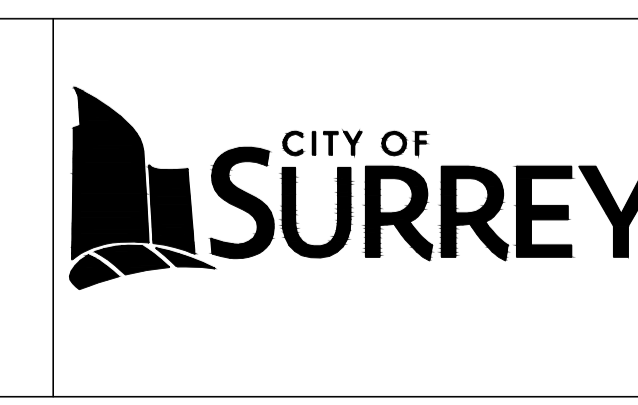
H:\projects\31566\_CoS\_Elgin\_Hall\_Civil\_Design\_Service\02\_CADD\20\_Drafting\201\_Sheets\31566\_LANDSCAPE\_SHEETS.dwg

REV.	DATE	DESCRIPTION	BY
6	FEB 14, 2018	HAP UPDATE	LN

CONSULTANT

**ISL Engineering and Land Services**

SUITE 301, 20338 - 85 AVENUE  
LANGLEY, BRITISH COLUMBIA, V2Y 2X3  
(604) 530-2288 FAX: (604) 530-1132



CLIENT

**City of Surrey**  
13450 104 Ave. Surrey, BC,  
Canada V3T 1V8

TITLE **ELGIN HALL PARKING UPGRADE**  
LANDSCAPE PLANTING DETAILS

SCALE: HOR. n/a  
VERT. n/a

DATE (YYYY.MM.DD)  
18-02-14

CONSULTANT PROJ. NO.  
31566

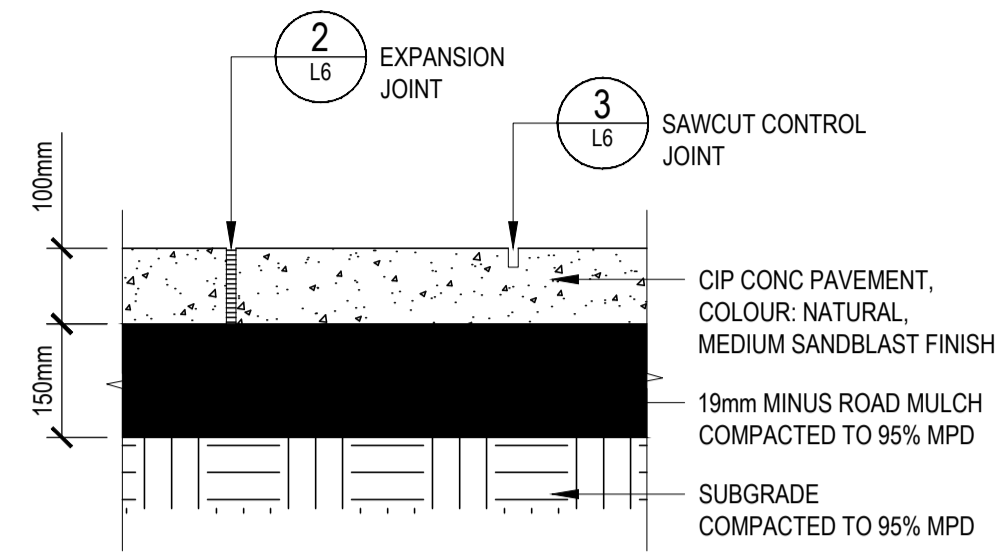
DESIGNED JL  
DRAWN LN  
REVIEWED JL

DWG. NO.  
**L5**

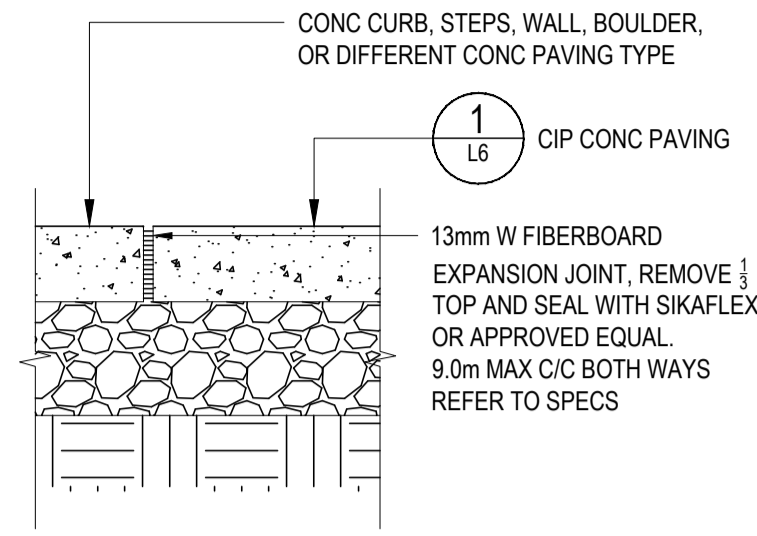
REV. NO.  
6

SURREY PROJECT NUMBER  
**15-0411**

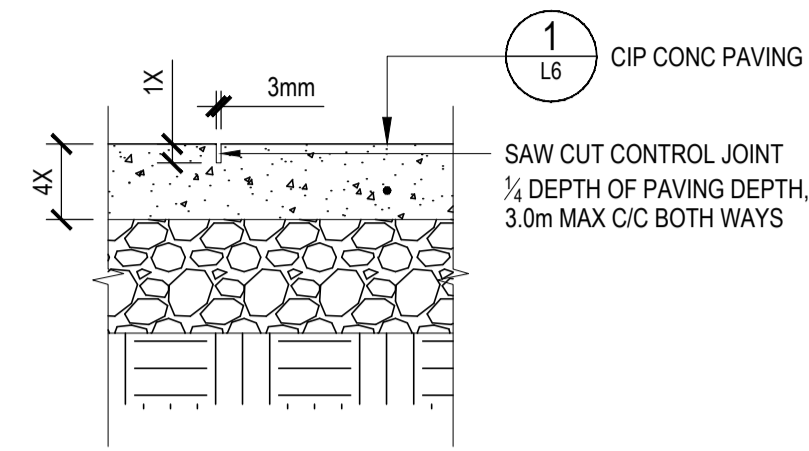
SURREY DRAWING NUMBER



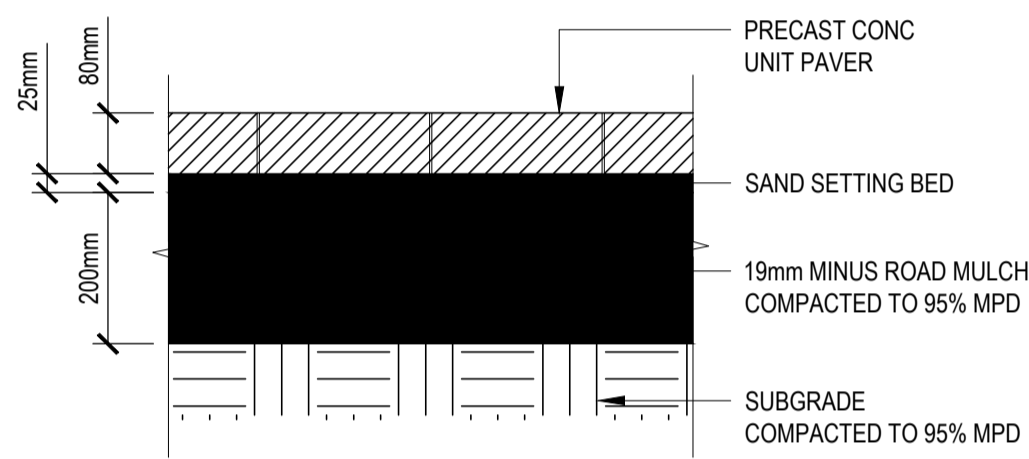
1  
L6 CIP CONCRETE PAVEMENT 1:10



2  
L6 EXPANSION JOINT 1:10



3  
L6 CONTROL JOINT 1:10



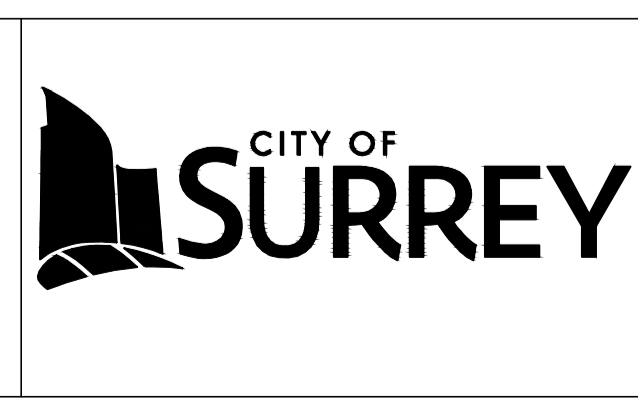
4  
L6 CONCRETE PAVERS 1:10

H:\projects\31566\_CoS\Elgin Hall Civil Design Service\02\_CADD\20\_Drafting\201\_Sheets\31566\_LANDSCAPE\_SHEETS.dwg

REV.	DATE	DESCRIPTION	BY
6	FEB 14, 2018	HAP UPDATE	LN

CONSULTANT

SUITE 301, 20338 - 85 AVENUE  
LANGLEY, BRITISH COLUMBIA, V2Y 2X3  
(604) 530-2288 FAX: (604) 530-1132



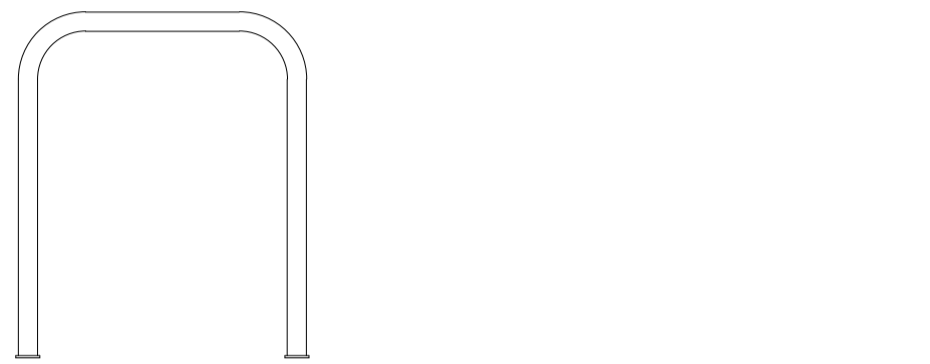
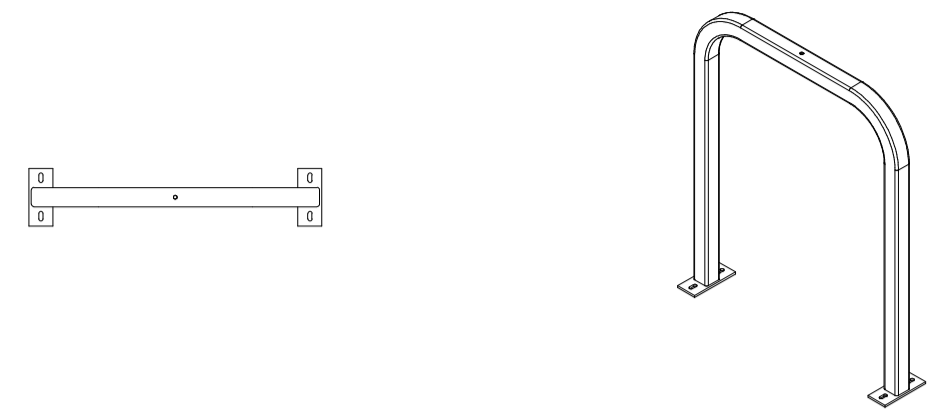
CLIENT

**City of Surrey**  
13450 104 Ave. Surrey, BC,  
Canada V3T 1V8

TITLE **ELGIN HALL PARKING UPGRADE**  
LANDSCAPE PLANTING DETAILS

SCALE: HOR. n/a VERT. n/a	DATE (YYYY.MM.DD) 18-02-14	SURREY PROJECT NUMBER 15-0411
DESIGNED JL	CONSULTANT PROJ. NO. 31566	SURREY DRAWING NUMBER
DRAWN LN	DWG. NO. L6	REV. 6
REVIEWED JL		

DESTROY ALL PRINTS BEARING PREVIOUS NUMBER



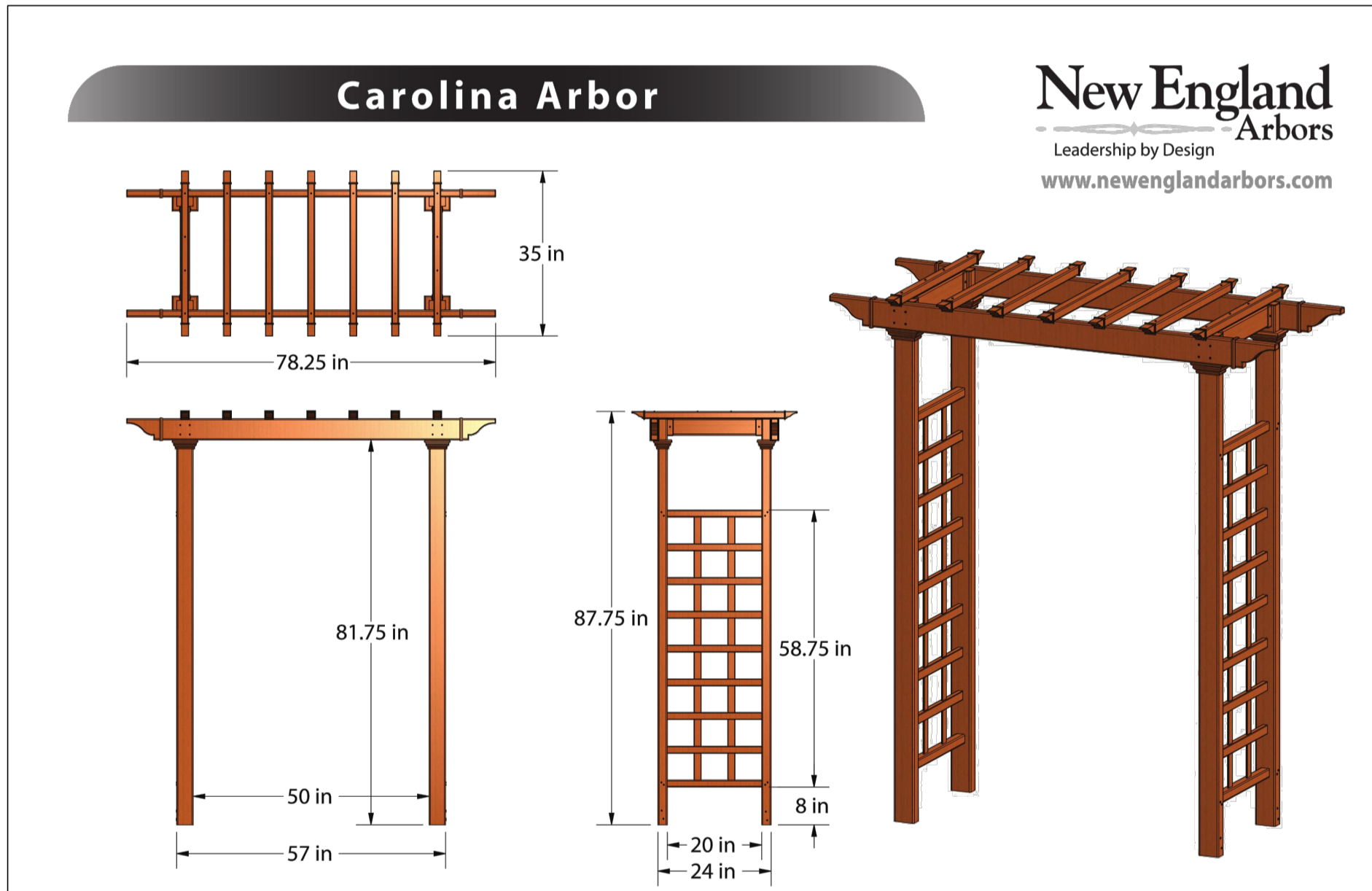
**1**  
L7 BIKE RACK 1:20

MODEL: Downtown  
SUPPLIER: Dero  
INSTALLATION: Install as per  
manufacturer's specifications  
COLOURS: TBD



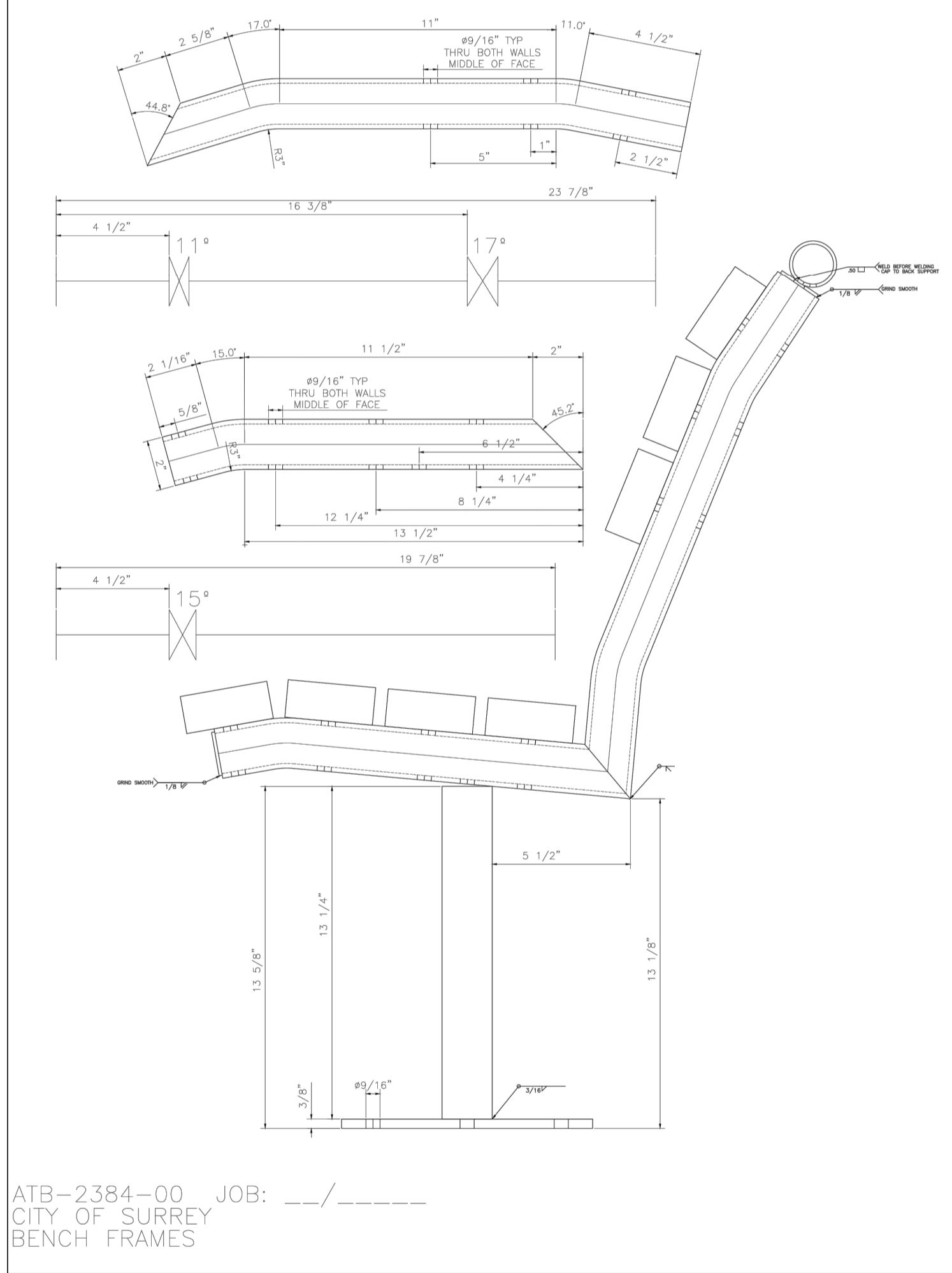
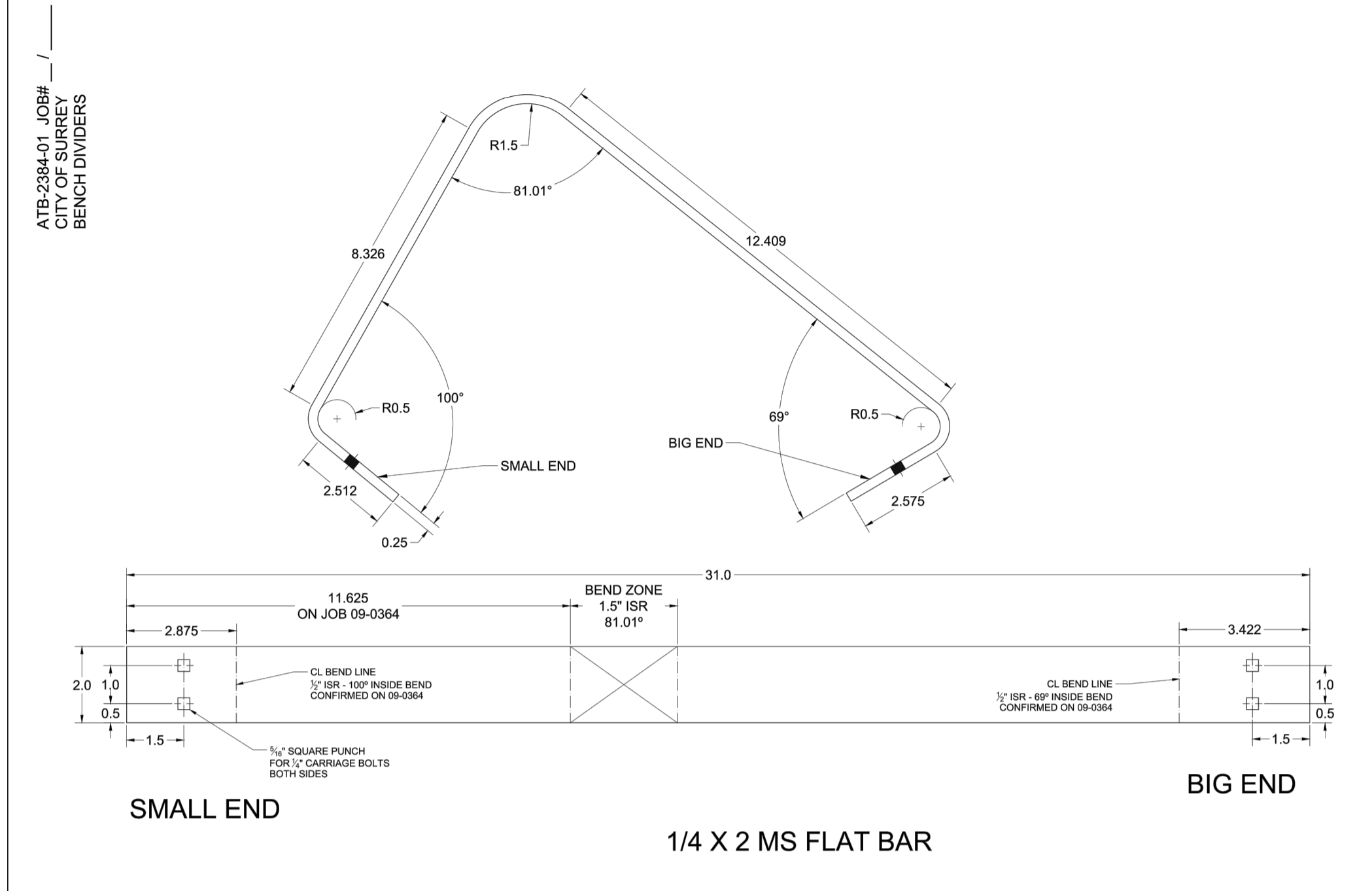
**2**  
L7 PLANTER N/A

MODEL: Brunello Planter  
SUPPLIER: Northwest Landscape Supply  
COLOURS: Caviar Black



**3**  
L7 ARBOR N/A

MODEL: Carolina  
SUPPLIER: New England Arbors  
INSTALLATION: Install as per  
manufacturer's specifications  
COLOURS: TBD



**4**  
L7 BENCH N/A

ATB-2384-00 JOB: \_\_\_/\_\_\_  
CITY OF SURREY  
BENCH FRAMES

H:\projects\31566\_CoS\_Elgin\_Hall\_Civil\_Design\_Service\02\_CADD\20\_Drafting\201\_Sheets\31566\_LANDSCAPE\_SHEETS.dwg

REV.	DATE	DESCRIPTION	BY
6	FEB 14, 2018	HAP UPDATE	LN

CONSULTANT

SUITE 301, 20338 - 85 AVENUE  
LANGLEY, BRITISH COLUMBIA, V2Y 2X3  
(604) 530-2288 FAX: (604) 530-1132



CLIENT

**City of Surrey**  
13450 104 Ave. Surrey, BC,  
Canada V3T 1V8

TITLE **ELGIN HALL PARKING UPGRADE  
LANDSCAPE PLANTING DETAILS**

SCALE: HOR. n/a  
VERT. n/a

DATE (YYYY.MM.DD)  
**18-02-14**

CONSULTANT PROJ. NO.  
**31566**

DESIGNED JL

DRAWN LN

REVIEWED JL

DWG. NO.  
**L7**

REV. NO.  
**6**

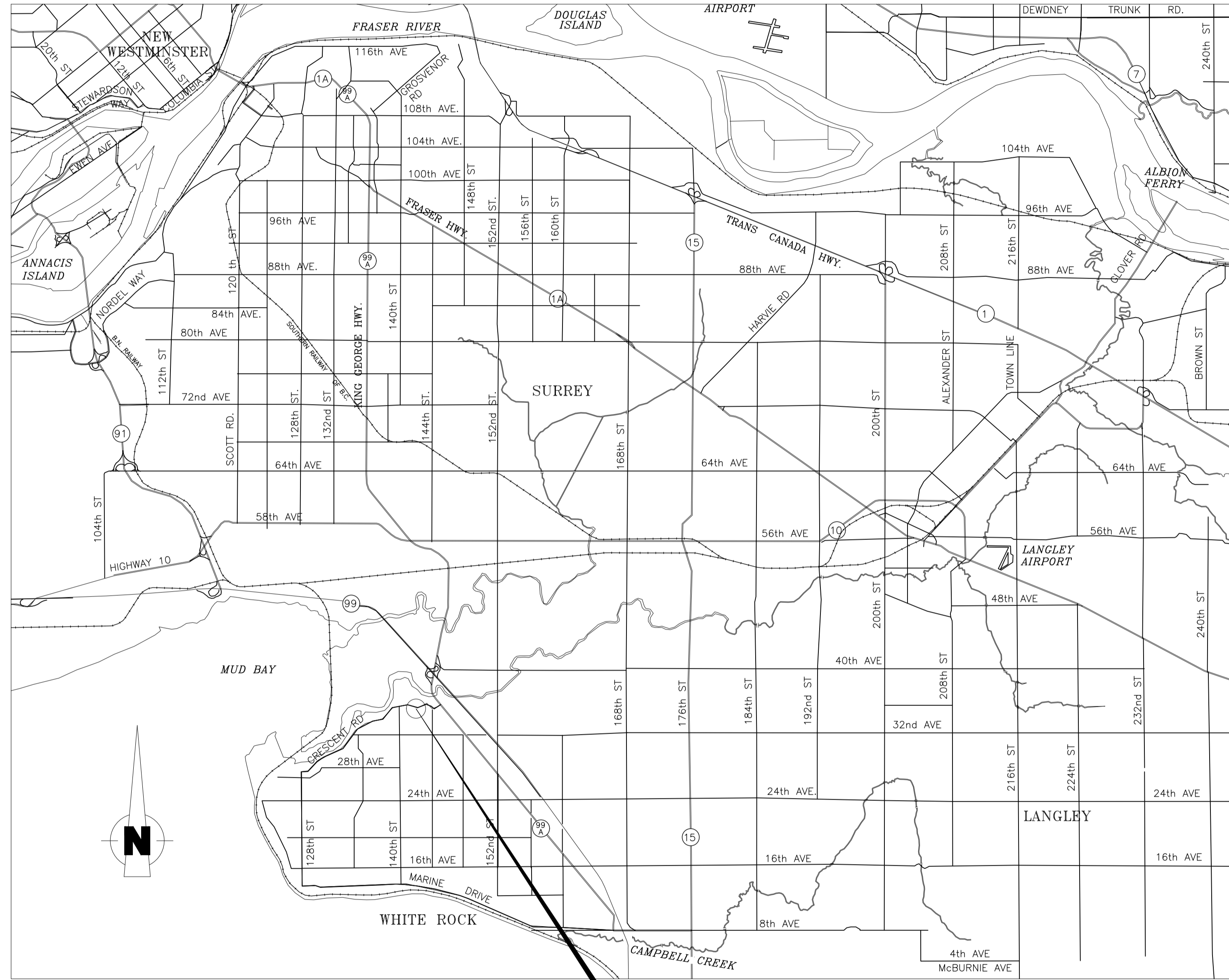
SURREY PROJECT NUMBER  
**15-0411**

SURREY DRAWING NUMBER

# ELGIN HALL PARKING UPGRADE

14250 CRESCENT ROAD, SURREY, BC

## EROSION AND SEDIMENT CONTROL PLAN



**SITE LOCATION PLAN**

SCALE: NTS

ANTICIPATED SOILS:  
CLAYEY SILT SOILS

### DRAWING SCHEDULE

DRAWING	SHEET NUMBER	DRAWING TITLE
31566-ESC-01	1 OF 5	GENERAL NOTES
31566-ESC-02	2 OF 5	PHASE 1 - SITE PREPARATION, STRIPPING AND GRUBBING
31566-ESC-03	3 OF 5	PHASE 2 - SITE SERVICING AND PARKING LOT CONSTRUCTION
31566-ESC-04	4 OF 5	PHASE 3 - PAVING AND LANDSCAPING
31566-ESC-05	5 OF 5	DETAILS

### EROSION AND SEDIMENT CONTROL GENERAL NOTES

- THE CONTRACTOR SHALL CONSTRUCT AND MAINTAIN ALL EROSION AND SEDIMENT CONTROL MEASURES IN ACCORDANCE WITH THE REQUIREMENTS OF THE CITY OF SURREY EROSION AND SEDIMENT CONTROL BYLAW 2006 No. 16138. MAINTENANCE MAY INCLUDE BUT IS NOT NECESSARILY LIMITED TO REPLACING SILT FENCE, RE-STAKING FALLEN SILT FENCING, DISPOSAL OFFSITE OF DEBRIS AND SEDIMENT, REPLACING FOULED GRAVEL AND CLEANING OUT SEDIMENT PONDS.
- THE WORKS SHOWN SHALL BE A MINIMUM REQUIREMENT. THE CONTRACTOR SHALL MODIFY AND/OR PROVIDE ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES AS NECESSARY TO ACCOMMODATE CONSTRUCTION ACTIVITIES AND SATISFY THE REQUIREMENTS OF THE BYLAW.
- THE SEDIMENT DISCHARGE LIMIT FROM THE SITE IS LESS THAN 75 mg/L TOTAL SUSPENDED SOLIDS (TSS). THIS DISCHARGE LIMIT ROUGHLY CORRESPONDS TO 60 NEPHALOMETRIC TURBIDITY UNITS (NTU). WHEN THE DISCHARGE LIMIT EXCEEDS 60 NTU, THE EROSION AND SEDIMENT CONTROL INSPECTOR SHALL TAKE A TSS SAMPLE FOR LAB ANALYSIS TO DETERMINE IF THE DISCHARGE EXCEEDS 75 mg/L TSS.
- THE OLD MUNICIPAL HALL GAUGE WILL BE UTILIZED FOR RAINFALL INTENSITY CALCULATION/DETERMINATION.
- EROSION AND SEDIMENT CONTROL INSPECTIONS WILL BE UNDERTAKEN DURING EVERY RAINFALL EVENT GREATER THAN 25mm PER 24 HOURS, OTHERWISE AS SET OUT BY CITY'S WEB PORTAL.
- AN EROSION AND SEDIMENT CONTROL INSPECTOR SHALL MONITOR THE ONGOING WORK, EROSION AND SEDIMENT CONTROL, MEASURES AND REPORT TO THE OWNER AND THE CITY AS PRESCRIBED BY THE PERMIT.
- IF TEMPORARY SEDIMENT POND FAILS TO MEET CITY OF SURREY EROSION AND SEDIMENT CONTROL BYLAW 2006 NO. 16138, SEDIMENT DISCHARGE LIMITS. THE CONTRACTOR WILL BE REQUIRED TO USE A FLOCCULANT OR PROPRIETARY PORTABLE TREATMENT SYSTEM (I.E. FILTERTECH, STORMGUARD, STORMTECH ETC) TO ENSURE SITE'S SEDIMENT DISCHARGE IS MET.
- ALL WATER BEING DISCHARGED FROM THE SITE MUST MEET pH LEVELS BETWEEN 6.5 AND 8.0 OR OTHER LEVELS SPECIFIED BY THE CITY OF SURREY EROSION AND SEDIMENT CONTROL BYLAW 2006 No. 16138.
- EXPOSED SLOPES AND SOIL STOCK PILES TO BE COVERED WITH ONE LAYER OF 6mil POLY AND WEIGHTED OR STAPLED INTO PLACE
- ROW/EASEMENTS AND COVENANTED AREAS TO BE KEPT FREE OF EROSION AND SEDIMENT CONTROL FACILITIES, CONSTRUCTION PLANT AND MATERIALS/STOCK PILES.
- SILT FENCING WILL NEED TO BE REMOVED FROM THE SITE ONCE FINAL STABILIZATION HAS BEEN ACHIEVED.
- ROADS MUST BE SWEEPED DAILY TO CLEAN UP ANY TRANSPORTED SOIL, LOOSE ROAD BASE, EARTH AND SEDIMENT.
- THE CONTRACTOR SHALL CONSTRUCT AND MAINTAIN ALL EROSION AND SEDIMENT CONTROL MEASURES UNTIL 90% OF THE LANDSCAPING IS COMPLETED OR UNTIL PERMISSION IS GRANTED IN WRITING BY THE CITY OF SURREY DEVELOPMENT ENGINEERING DEPARTMENT.
- EXISTING SERVICE CONNECTIONS AND UTILITIES LOCATIONS ARE CALCULATED AND DERIVED FROM AVAILABLE DRAWINGS. THE CONTRACTOR IS TO CONFIRM ELEVATION AND LOCATION OF ALL EXISTING SERVICES PRIOR TO INSTALLATION OF ONSITE SERVICES. REPORT ALL DISCREPANCIES IN EXISTING CONNECTIONS TO DESIGN ENGINEER PRIOR TO CONSTRUCTION.
- ALL EXISTING LIVE SERVICES SHALL BE MAINTAINED OPERATIONAL UNLESS OTHERWISE NOTED BY THE ENGINEER.
- IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO MAINTAIN PEDESTRIAN AND VEHICULAR TRAFFIC ON ALL MUNICIPAL RIGHTS OF WAY BY THE USE OF SIGNS, BARRICADES, FLAG PERSONS, ETC. ACCEPTABLE TO THE CITY OF SURREY AND BRITISH COLUMBIA MINISTRY OF TRANSPORTATION & INFRASTRUCTURE (BC MoTI).
- THE CONTRACTOR SHALL KEEP ALL PORTIONS OF THE WORK DRAINED DURING THE CONSTRUCTION AND UNTIL COMPLETION. WHERE NECESSARY, CATCHWATER DITCHES SHALL BE CONSTRUCTED ALONG THE TOPS OF EXCAVATIONS OR FILL SLOPES TO PREVENT WATER FLOWING INTO OR OVER THE EXCAVATED OR FILLED AREAS.
- THE CONTRACTOR WILL BE RESPONSIBLE FOR THE REPAIR FOR DAMAGE, DIRECTLY RESULTING FROM HIS OPERATIONS AND FOR THE REMOVAL OF DIRT OR DEBRIS FROM EXISTING SYSTEMS, WHICH MAY BE CAUSED BY OR WHICH MAY RESULT FROM WATER BACKING UP OR OVERFLOWING THROUGH, FROM, OR ALONG ANY PART OF THE WORK OR ADJACENT PROPERTIES. THE CONTRACTOR SHALL BEAR ALL COSTS ASSOCIATED WITH THESE REPAIRS UNTIL WORKS IS COMPLETE AND ACCEPTED BY THE OWNER(S).



#201, 8506 200 STREET, Langley, B.C. V2Y 0M1  
T: 604.371-0091 F: 604.371.0098

REV.	DATE	DESCRIPTION	BY
2	MAR 26, 2018	ISSUED FOR TENDER	TJA
1	AUGUST 18, 2016	ESC PLAN FOR CITY'S REVIEW	TJA

CONSULTANT

SUITE 301, 20338 - 65 AVENUE  
LANGLEY, BRITISH COLUMBIA, V2Y 2X3  
(604) 530-2288 FAX: (604) 530-1132



CLIENT

**City of Surrey**  
13450 104 Ave. Surrey, BC,  
Canada V3T 1V8

SEAL

SCALE:	HOR. NTS	VERT. NTS
DESIGNED	MTM	
DRAWN	TJA	
REVIEWED	DEN	

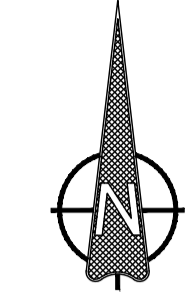
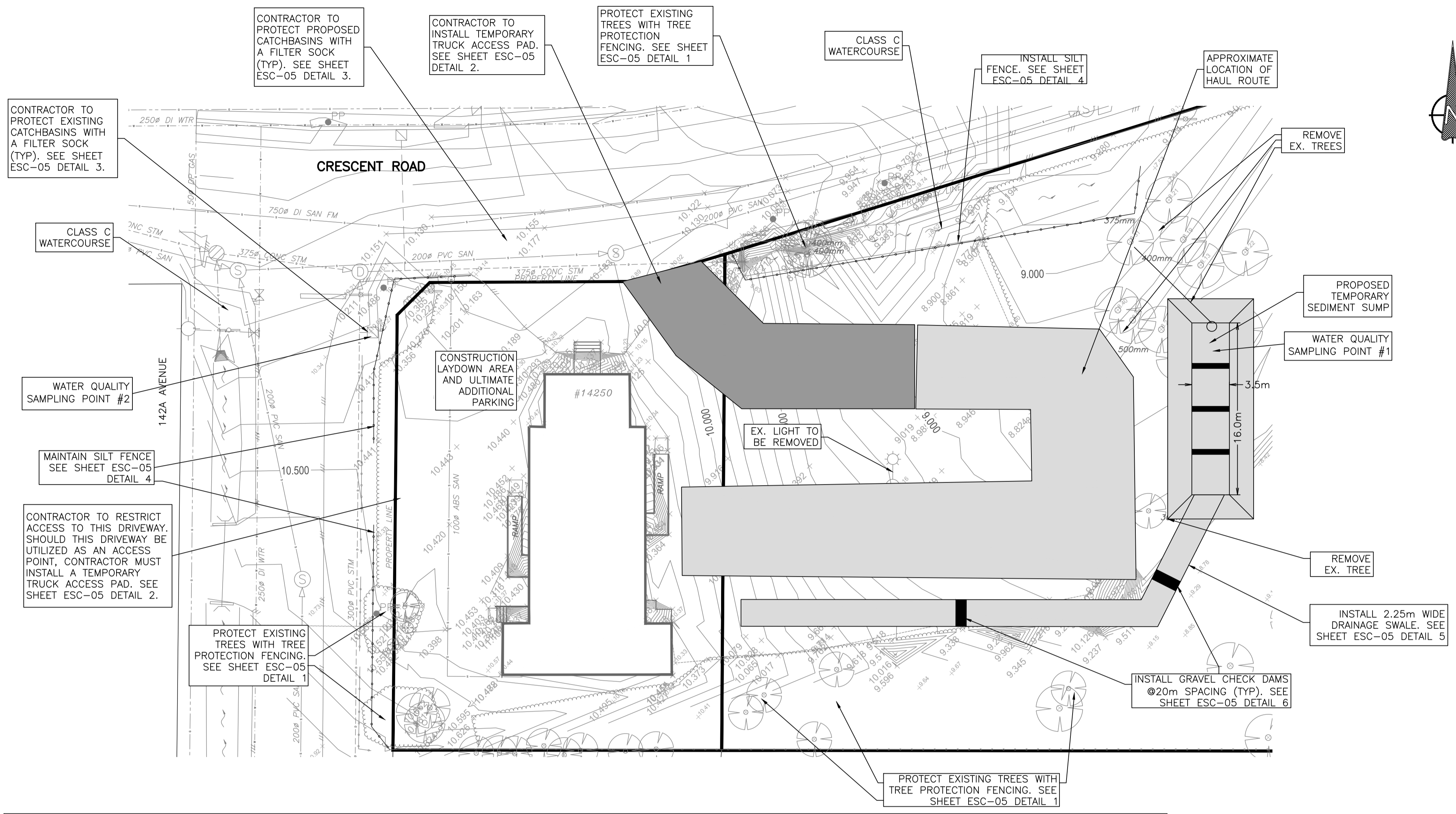
DATE (YYYY.MM.DD)	16-07-26
CONSULTANT PROJ. NO.	31566
DWG. NO.	01
REV. NO.	

SURREY PROJECT NUMBER  
SURREY DRAWING NUMBER

TITLE  
**ELGIN HALL PARKING UPGRADE**  
EROSION AND SEDIMENT CONTROL PLAN  
GENERAL NOTES

ESC SUPERVISOR

DESTROY ALL PRINTS BEARING PREVIOUS NUMBER



NOTE:  
 TO MANAGE AND MITIGATE ERODIBLE SURFACES THE CONTRACTOR WILL APPLY AN APPLICATION OF STRAW AT 4,500 kg/ha OR PROTECT ERODIBLE SURFACES WITH POLYETHYLENE SHEETING UNTIL FINAL STABILIZATION.

PHASE 1 NOTES (SITE PREPARATION, STRIPPING AND GRUBBING):

1. DEMARCATe CLEARING LIMITS WITH STORM FENCING OR WITH 'POST AND RIBBON'.
2. TREE MARKING SHALL BE "MARK-TO-STAY" (I.E. TREES SHALL BE FLAGGED AT EYE HEIGHT WITH RIBBON) AND A NO DISTURBANCE AREAS SHALL BE ESTABLISHED AROUND TREE TO AVOID ROOT DAMAGE AS PER DETAIL 1.
3. PRIOR TO WORKS A PRE-CONSTRUCTION SITE MEETING WILL BE ARRANGED AMONGST THE CONTRACTOR'S SITE SUPERVISOR AND THE ESC INSPECTOR.
4. CONSTRUCT A TRUCK ACCESS PAD AS SHOWN ON DETAIL 2 AT THE ENTRANCE/EXIT OF THE SITE. NO MODIFICATIONS WITHOUT WRITTEN APPROVAL OF THE ESC INSPECTOR.
5. CONSTRUCT AN INTERNAL TRUCK HAUL ROUTE INTO THE SITE USING COARSE GRANULAR MINERAL SOIL (ie GRAVEL/ROCK/SAND)
6. WHEN THE TRUCK ACCESS PAD BECOMES FOULED, IT WILL BE SCARIFIED TO REMOVE OCCLUDING SEDIMENTS, AND ADDITIONAL CLEAN ROCK WILL BE ADDED BY THE CONTRACTOR AT THE CONTRACTOR'S EXPENSE.
7. IF THE ROCK ACCESS PAD AND ROAD SWEEPING IS INEFFECTIVE AT CONTROLLING TRACKING OF SEDIMENT FROM THE SITE, A WHEEL WASH WILL HAVE TO BE INSTALLED AT THE CONTRACTOR'S EXPENSE.
8. INSTALL PERIMETER CATCHMENT SWALES (DETAIL 5) CONNECTED TO TEMPORARY SUMP.
9. CHECK DAMS CONSTRUCTED MUST BE INSTALLED AS PER DETAIL 5 AT LOCATIONS AND FREQUENCY SHOWN.
10. STRIP & GRUB ORGANIC MATERIALS AND HAUL FROM SITE PROMPTLY. IN THE EVENT THAT TEMPORARY ONSITE STOCKPILING IS NECESSARY THE CONTRACTOR SHALL COVER THE STOCKPILES WITH POLYETHYLENE SHEETING AS PER DETAIL 7 OR APPROVED EQUIVALENT.
11. CONTRACTOR WILL STRIP AND GRUB ORGANIC MATERIAL FROM EAST TO WEST AND FILL STRIPPED AREA WITH NON-ERODIBLE SUB-GRADE MATERIAL TO ACHIEVE SUB-GRADE ELEVATION DURING THE DURATION OF PHASE 1.
12. EXPOSED SOILS CAN REMAIN UNCOVERED FOR A MAXIMUM OF 4 DAYS DURING FAIR WEATHER.
13. AT THE END OF PHASE I, THE SITE WILL BE CAPPED WITH A MINIMUM 100 MM THICK LAYER OF CRUSHED ROCK TO REDUCE THE GENERATION OF SEDIMENT. ALTERNATIVE MATERIAL FOR SITE COVERAGE AND SOURCE CON

LEGAL DESCRIPTION		CONSULTANT		CLIENT		SEAL													
SURVEY BENCHMARK				<b>City of Surrey</b> 13450 104 Ave. Surrey, BC, Canada V3T 1V8		SCALE: HOR. 1:250 VERT.													
<table border="1"> <thead> <tr> <th>REV.</th> <th>DATE</th> <th>DESCRIPTION</th> <th>BY</th> </tr> </thead> <tbody> <tr> <td>2</td> <td>MAR 26, 2018</td> <td>ISSUED FOR TENDER</td> <td>TJA</td> </tr> <tr> <td>1</td> <td>AUGUST 18, 2016</td> <td>ESC PLAN FOR CITY'S REVIEW</td> <td>TJA</td> </tr> </tbody> </table>		REV.	DATE	DESCRIPTION	BY	2	MAR 26, 2018	ISSUED FOR TENDER	TJA	1	AUGUST 18, 2016	ESC PLAN FOR CITY'S REVIEW	TJA	SUITE 301, 20338 - 65 AVENUE LANGLEY, BRITISH COLUMBIA, V2Y 2X3 (604) 530-2288 FAX : (604) 530-1132				DATE (YYYY.MM.DD) <b>16-07-26</b> CONSULTANT PROJ. NO. <b>31566</b>	
REV.	DATE	DESCRIPTION	BY																
2	MAR 26, 2018	ISSUED FOR TENDER	TJA																
1	AUGUST 18, 2016	ESC PLAN FOR CITY'S REVIEW	TJA																
ESC SUPERVISOR				TITLE <b>ELGIN HALL PARKING UPGRADE          EROSION AND SEDIMENT CONTROL PLAN          PHASE 1 - SITE PREPARATION, STRIPPING AND GRUBBING</b>		SURREY PROJECT NUMBER SURREY DRAWING NUMBER <b>02</b>													



**SEDIMENT POND DEACTIVATION NOTES:**

1. POND ONLY BE REMOVED AFTER APPROVAL BY CITY OF SURREY ENVIRONMENTAL SECTION STAFF
2. CONTRACTOR WILL DEWATER SEDIMENT POND AND ENSURE WATER WILL BE TREATED IN A MANNER AS TO PREVENT SEDIMENT LADEN WATER FROM ENTERING THE CITY OF SURREY DRAINAGE SYSTEM.
3. REMOVE ALL ACCUMULATED SILT AND SEDIMENT AND DISPOSE OFFSITE.
4. ALL REMAINING TEMPORARY POND INFRASTRUCTURE INCLUDING INLET/OUTLET STRUCTURES, WEIRS, LINERS AND BERMS WILL BE REMOVED AND DISPOSED OFFSITE.
5. CONTRACTOR TO FILL POND WITH APPROVED SUBGRADE MATERIAL TO THE ELEVATIONS DESIGNATED BY THE ENGINEER.

**SEDIMENT CONTROL POND NOTES:**

1. PROPOSED 3.5m X 16m CHAMBERED SEDIMENT CONTROL POND.
2. POND TO BE LINED WITH NON PERMEABLE LINER.
3. POND TO BE CHAMBERED WITH NON PERMEABLE MATERIAL SUCH AS POLY LINED SANDBAGS FILLED WITH WASHED C-33 OR IMPERVIOUS MATERIAL SUSPENDED BY WIRES AND POSTS.
4. POND SIZE MAY BE SUBSEQUENTLY REDUCED AS CONSTRUCTION PROGRESSES AND AREA OF ERODIBLE SURFACE IS REDUCED.

**POND SIZING CALCULATION NOTES**

Ca AREA = 0.46 ha  
 MAX FLOW LENGTH = 50 m  
 WIDTH = 35 m

RUNOFF FLOW (Q)  
 $Q = (R \times I \times A)$   
 R = LAND COVER FACTOR, VALUE FOR GRADED/SMOOTH SOILS = 0.4  
 I = FROM IDF CURVE, 1:5 Event = 34.5 mm/hr  
 A = AREA = 0.46 ha

$Q(1:2) = (0.4 \times 34.5 \text{ mm/hr} \times 0.50 \text{ HA}) / 360 = 0.0176 \text{ m}^3/\text{s}$

POND AREA  
 $AREA = (1.2 \times Q) / V_s$   
 $A(1:2) = (1.2 \times 0.0176 \text{ m}^3/\text{s} / 0.0004 \text{ m/s}) = 52.9 \text{ m}^2$

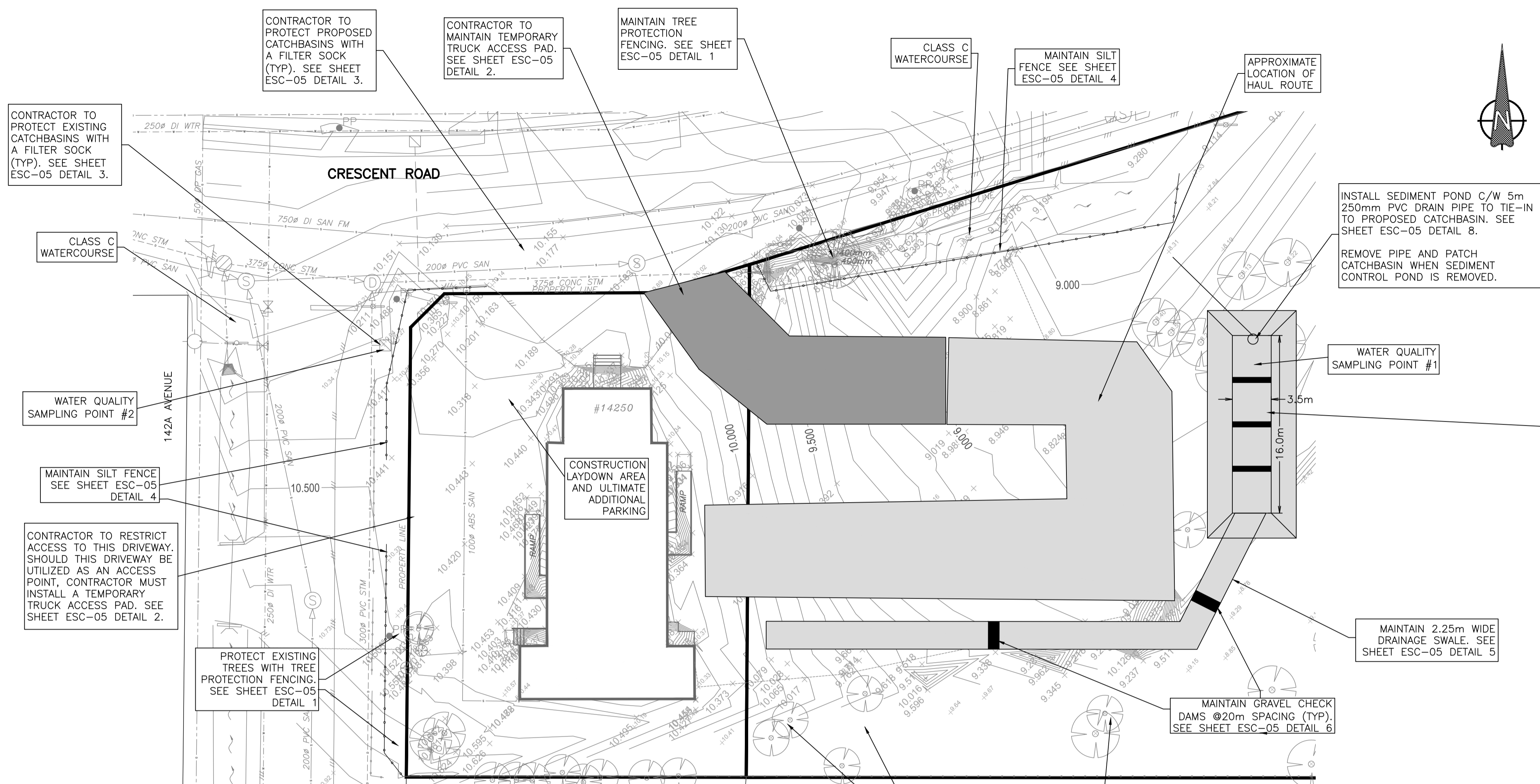
POND DIMENSIONS  
 $5w2 = A$   
 $5w2 = A(1:2)$   
 $5W2 = 52.9$   
 $w2 = 52.9/5$   
 $w2 = 10.6 \text{ m}$   
 $w = 3.3 \text{ m}$

EFFECTIVE WIDTH TO LENGTH RATIO FOR PONDS IS 5:1  
 $3.3 \text{ m} \times 16.3 \text{ m} = 53.8 \text{ m}^2$   
 Use 3.5 m WIDE x 16 m LONG SEDIMENT POND

**NOTE:**  
 TO MANAGE AND MITIGATE ERODIBLE SURFACES THE CONTRACTOR WILL APPLY AN APPLICATION OF STRAW AT 4,500 kg/ha OR PROTECT ERODIBLE SURFACES WITH POLYETHYLENE SHEETING UNTIL FINAL STABILIZATION.

**PHASE 2 NOTES (SERVICING & BUILDING CONSTRUCTION):**

1. WHEN THE TRUCK ACCESS PAD BECOMES FOULED, IT WILL BE SCARIFIED AND LOFTED TO REMOVE OCCLUDING SEDIMENTS, AND ADDITIONAL CLEAN MATERIAL WILL BE ADDED BY THE CONTRACTOR AT THE CONTRACTOR'S EXPENSE.
2. MINIMIZE EXPOSURE OF MINERAL SOILS DURING THIS PHASE OF WORKS BY APPLICATION OF MULCHES (STRAW, PLASTIC, COMPOST, ETC.). ORGANIC MULCHES WILL BE APPLIED AT A RATE OF 4,500 KILOGRAMS PER HECTARE AND TO A DEPTH OF NOT LESS THAN 3cm.
3. APPLY SUB-GRADE AND BUILD TO SPECIFIED DEPTH.
4. INSTALL SERVICES, AFFIX TEMPORARY FILTER SOCKS TO APPROVED CATCHBASINS. APPLICATION OF GEOTEXTILE TO CATCH BASIN INLETS IS NOT AN ACCEPTABLE METHOD OF SEDIMENT CONTROL AND IS NOT PERMITTED.
5. ALL UNDERGROUND SERVICING WILL BE BACKFILLED AND CAPPED WITH CLEAN COARSE GRANULAR MATERIAL IMMEDIATELY FOLLOWING PIPE INSTALLATION AND PRIOR TO THE END OF THE WORK DAY.
6. DECOMMISSION PERIMETER CATCHMENT SWALES. CONTRACTOR WILL REMOVE ACCUMULATED SEDIMENT AND GEOTEXTILE FABRIC OR POLYETHYLENE LINER FROM SWALES AND DISPOSE OFFSITE.
7. CATCHBASIN FILTER SOCKS MUST BE INSPECTED DAILY AND CLEANED DAILY FOR ACCUMULATIONS OF SAND, SOIL AND SILT.
8. DEACTIVATE TEMPORARY SEDIMENT POND PER "SEDIMENT POND DEACTIVATION NOTES".



H:\Projects\31566\_CoS\_Elgin\_Hall\_Civil\_Design\_Service\02\_CADD\20\_Drafting\201\_Sheets\ESC\31566\_03\_ESC\_PHASE 2.dwg

REV.	DATE	DESCRIPTION	BY
2	MAR 26, 2018	ISSUED FOR TENDER	TJA
1	AUGUST 18, 2016	ESC PLAN FOR CITY'S REVIEW	TJA

ESC SUPERVISOR

**CONSULTANT**

**ISL Engineering and Land Services**

SUITE 301, 20338 - 65 AVENUE  
 LANGLEY, BRITISH COLUMBIA, V2Y 2X3  
 (604) 530-2288 FAX: (604) 530-1132



**CLIENT**

**City of Surrey**  
 13450 104 Ave. Surrey, BC,  
 Canada V3T 1V8

**TITLE**

**ELGIN HALL PARKING UPGRADE  
 EROSION AND SEDIMENT CONTROL PLAN  
 PHASE 2 - CIVIL SITE SERVICING AND PARKING LOT CONSTRUCTION**

**SCALE:** HOR. 1:250  
 VERT.

**DATE (YYYY.MM.DD)**  
 16-07-26

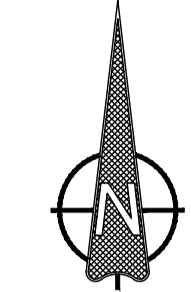
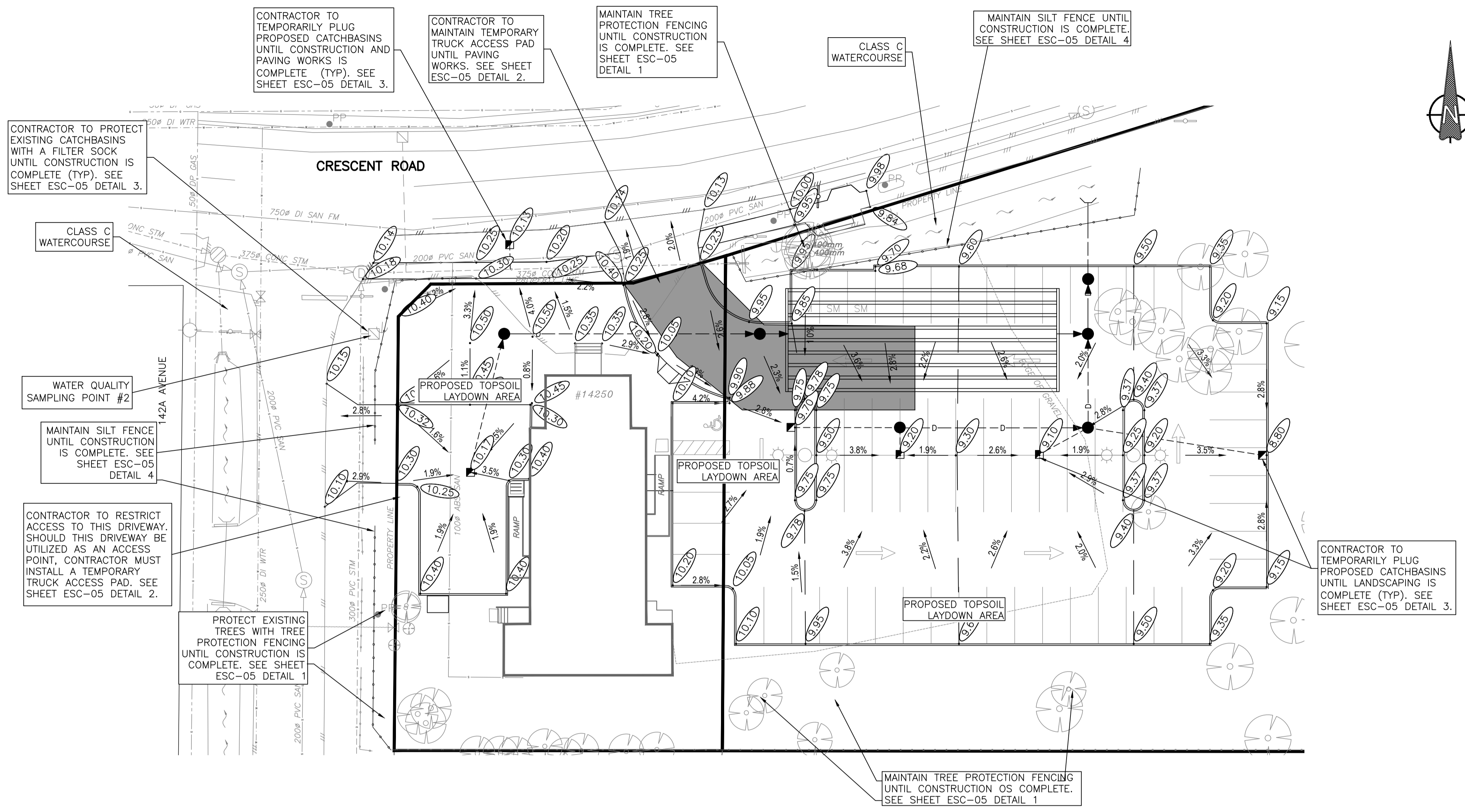
**CONSULTANT PROJ. NO.**  
 31566

**DWG. NO.**  
 03

**DESIGNED:** MTM  
**DRAWN:** DWF  
**REVIEWED:** DEN

**SURREY PROJECT NUMBER**

**SURREY DRAWING NUMBER**



PHASE 3 NOTES (PAVING & LANDSCAPING):

1. DECOMMISSION TRUCK ACCESS RAMP PRIOR TO PAVING APPLICATION.
2. PAVING PRE-COAT AND PAVING APPLICATION MUST BE DONE DURING PERIODS OF DRY WEATHER.
3. PREVENT CONCRETE LADEN WATER FROM DRAINING TO STORM SEWERS.
4. DECOMMISSION TRUCK ACCESS RAMP PRIOR TO PAVING APPLICATION.
5. LANDSCAPERS WILL USE DEMARCATED AREAS (NOT CITY STREETS) FOR LAYDOWN OF TOPSOIL, TURF, ETC.
6. LANDSCAPERS WILL COVER ALL SOIL STOCKPILES AND WILL SWEEP CLEAN THE LAYDOWN AREAS AT COMPLETION OF THEIR WORK, TO THE SATISFACTION OF THE EROSION AND SEDIMENT CONTROL INSPECTOR.
7. REMOVE SILT FENCING AND ALL TEMPORARY ESC MEASURES FROM THE SITE ONCE SITE SOIL STABILIZATION HAS BEEN ACHIEVED.
8. REMOVE FILTER SOCKS ONCE PAVING & LANDSCAPING IS COMPLETE.
9. PERMANENTLY STABILIZE EXPOSED SOILS AND DISTURBED AREAS BY APPLICATION OF TURF OR NATIVE GRASS SEED.

NOTE:  
TO MANAGE AND MITIGATE ERODIBLE SURFACES THE CONTRACTOR WILL APPLY AN APPLICATION OF STRAW AT 4,500 kg/ha OR PROTECT ERODIBLE SURFACES WITH POLYETHYLENE SHEETING UNTIL FINAL STABILIZATION.

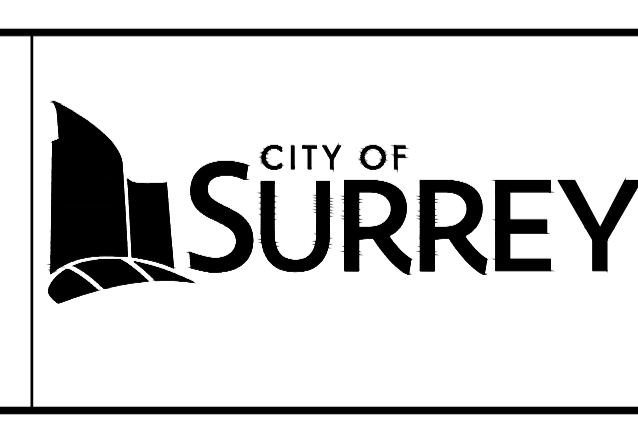
H:\projects\31566\_CoS\_Elgin\_Hall\_Civil\_Design\_Service\02\_CADD\20\_Drafting\201\_Sheets\ESC\31566\_04\_ESC\_PHASE\_3.dwg

REV.	DATE	DESCRIPTION	BY
2	MAR 26, 2018	ISSUED FOR TENDER	TJA
1	AUGUST 18, 2016	ESC PLAN FOR CITY'S REVIEW	TJA

ESL SUPERVISOR

CONSULTANT

SUITE 301, 20338 - 65 AVENUE  
LANGLEY, BRITISH COLUMBIA, V2Y 2X3  
(604) 530-2288 FAX: (604) 530-1132



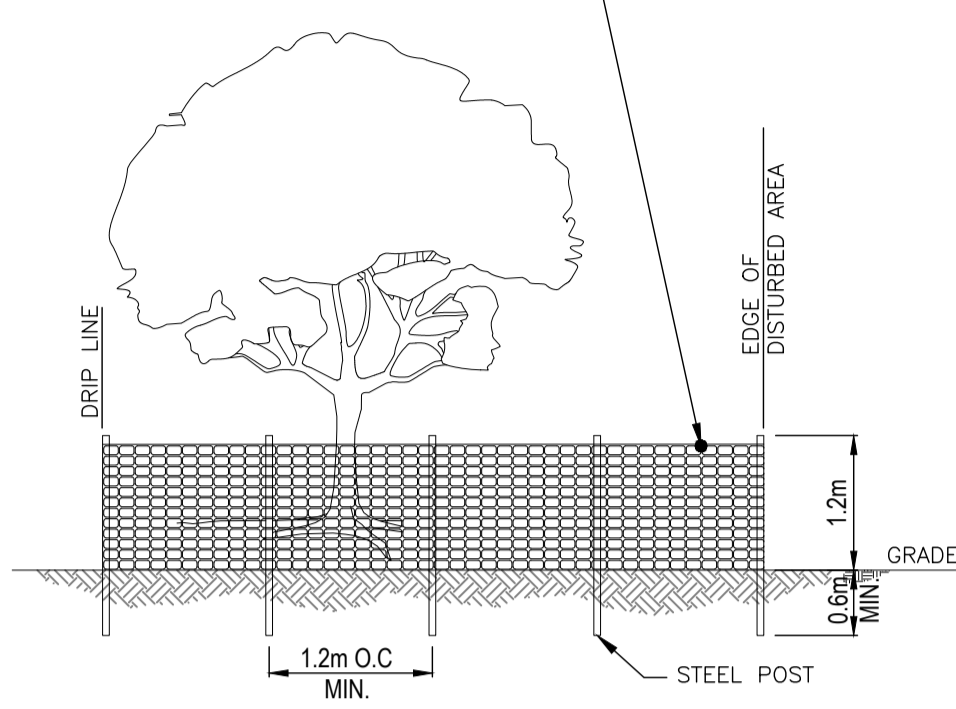
CLIENT  
**City of Surrey**  
13450 104 Ave. Surrey, BC,  
Canada V3T 1V8

TITLE  
**ELGIN HALL PARKING UPGRADE  
EROSION AND SEDIMENT CONTROL PLAN  
PHASE 3 - PAVING AND LANDSCAPING**

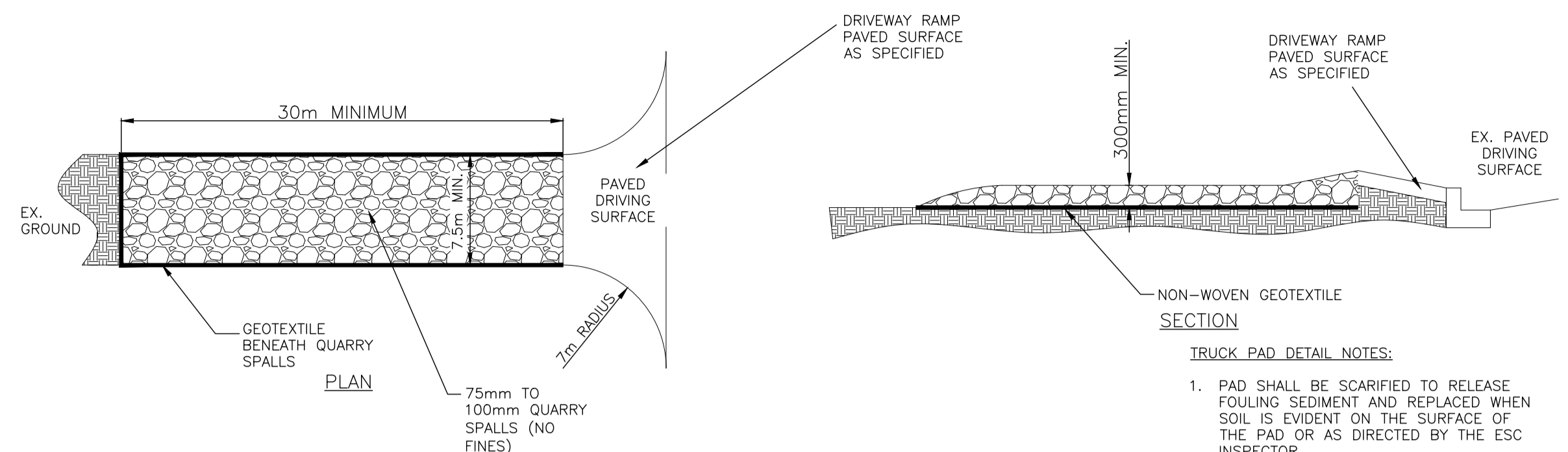
SEAL

SCALE: HOR. 1:250 VERT.	DATE (YYYY.MM.DD) 16-07-26	SURREY PROJECT NUMBER
DESIGNED MTM	CONSULTANT PROJ. NO. 31566	SURREY DRAWING NUMBER
DRAWN DWF	DWG. NO. 04	
REVIEWED DEN	REV.	

FENCE MATERIAL:  
ORANGE, UV RESISTANT, HIGH TENSILE  
STRENGTH POLYETHYLENE LAMINAR  
BARRICADE FABRIC

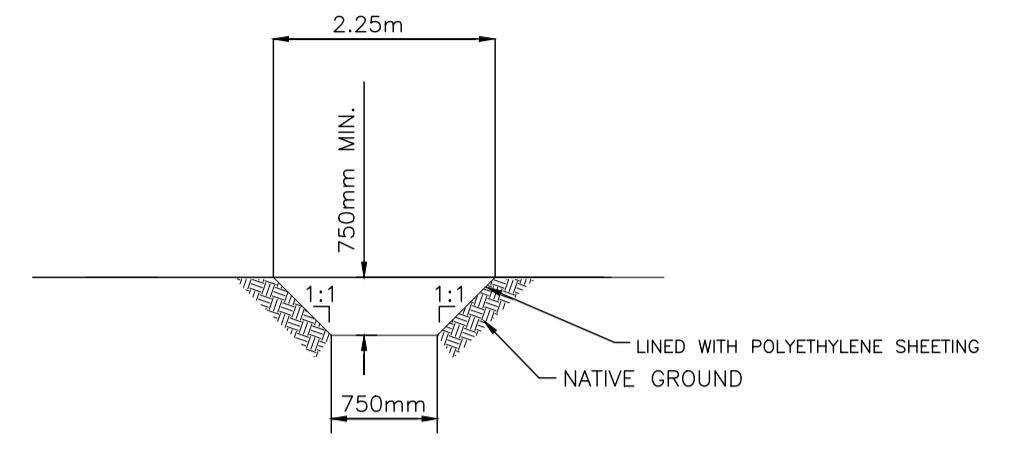


**DETAIL 1: TREE PROTECTION**  
SCALE: NTS

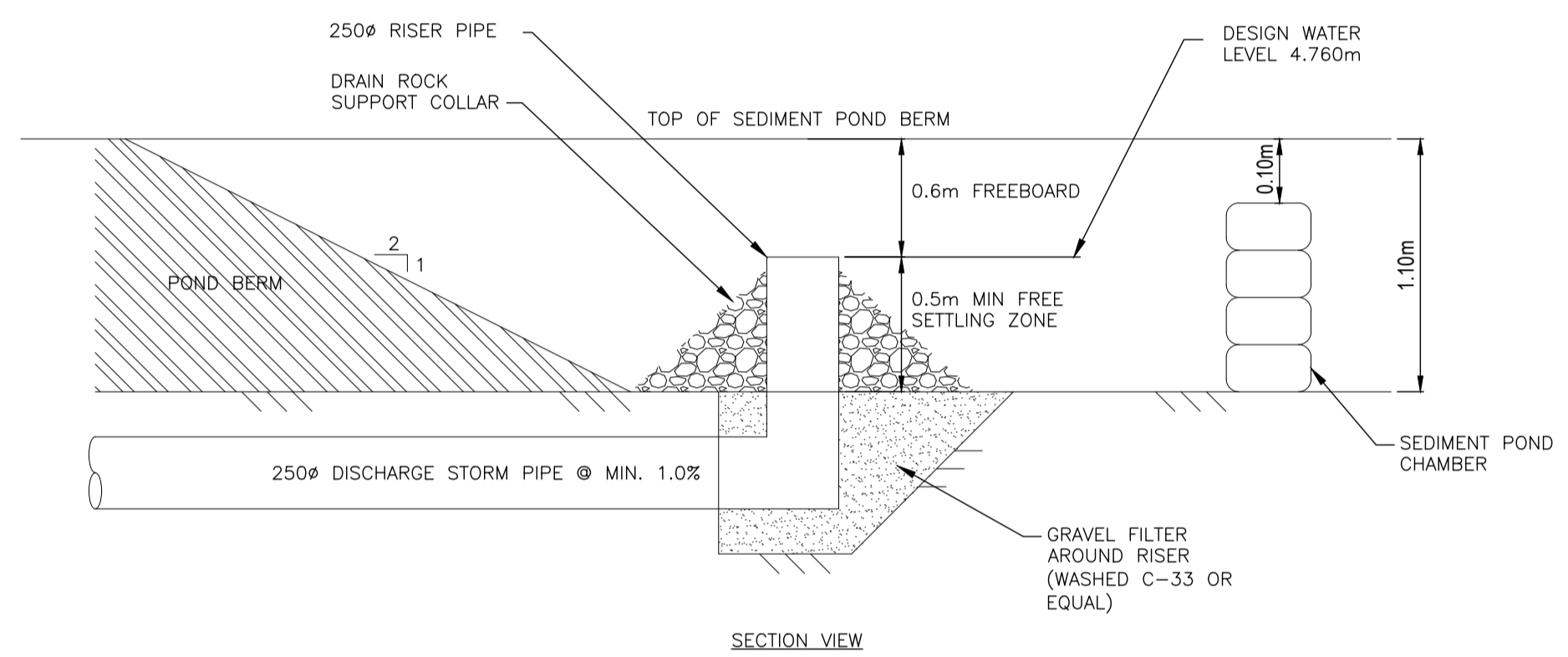


**DETAIL 2: TEMPORARY TRUCK ACCESS PAD**  
SCALE: NTS

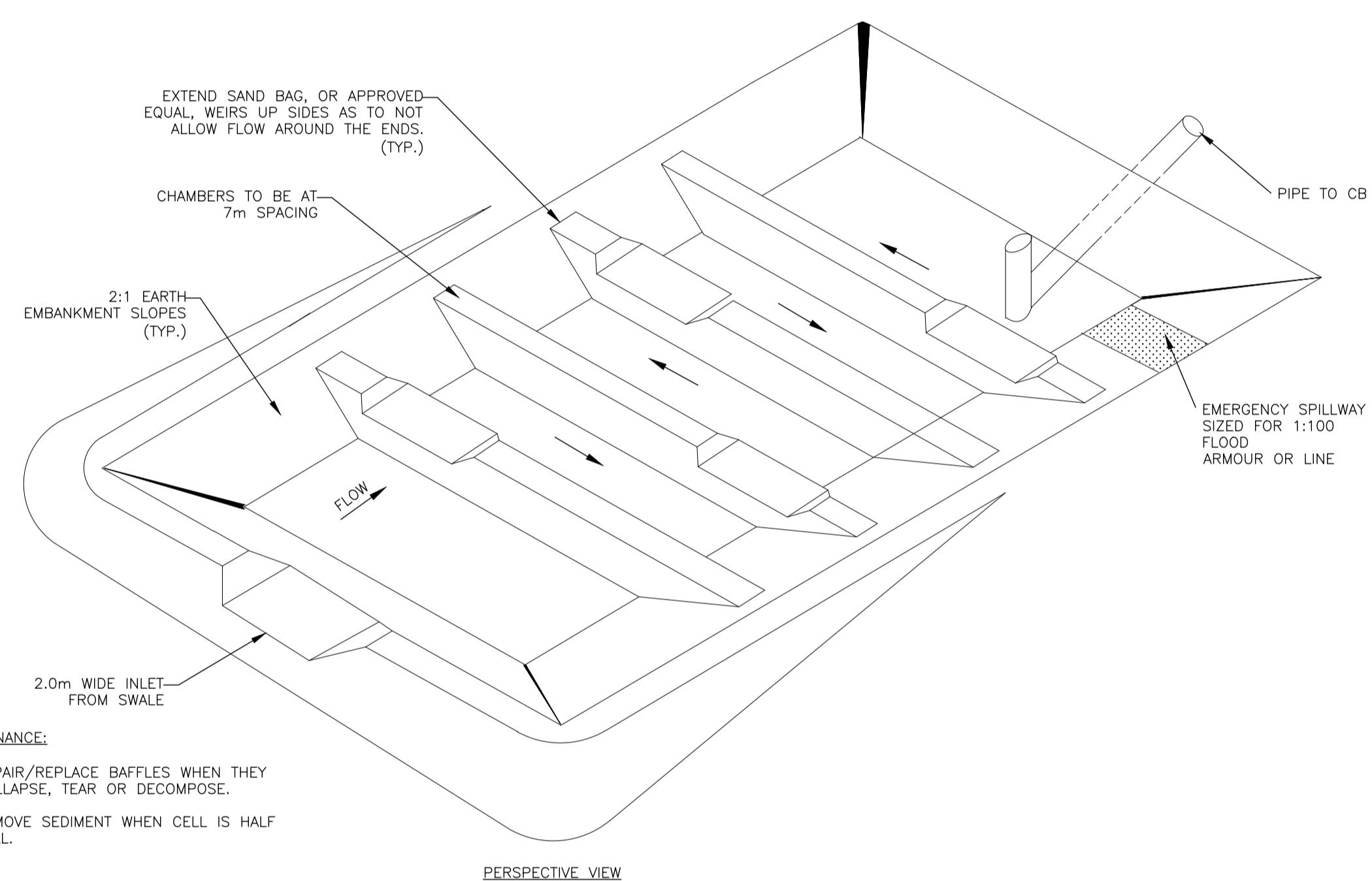
**TRUCK PAD DETAIL NOTES:**  
1. PAD SHALL BE SCARIFIED TO RELEASE  
FOULING SEDIMENT AND REPLACED WHEN  
SOIL IS EVIDENT ON THE SURFACE OF  
THE PAD OR AS DIRECTED BY THE ESC  
INSPECTOR.  
2. ADDITIONAL CLEAN ROCK PER  
SPECIFICATION MUST BE ADDED IF  
CONDITIONS DICTATE OR PER THE  
DIRECTION OF THE ENVIRONMENTAL  
MONITOR.



**DETAIL 3: TYPICAL CONSTRUCTION DRAINAGE SWALE SECTION**  
SCALE: NTS

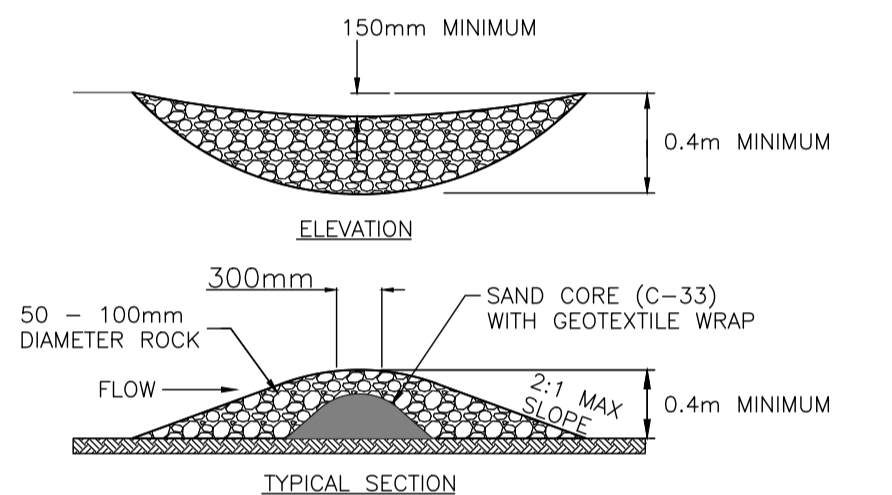


**DETAIL 4: SEDIMENT POND SECTION**  
SCALE: NTS

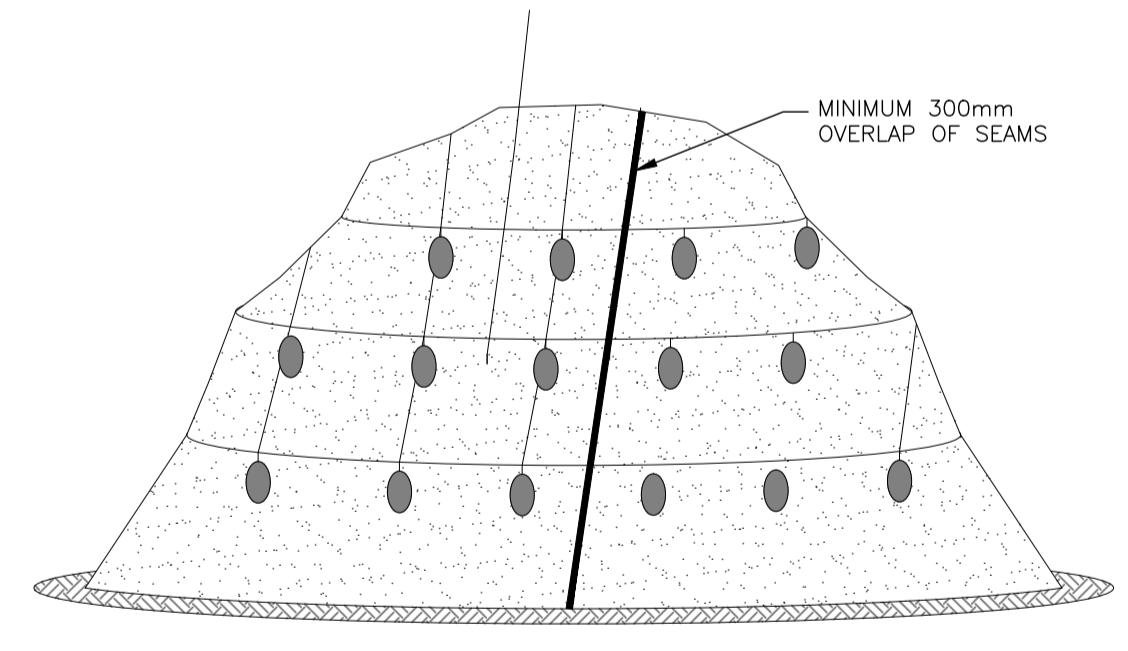


**DETAIL 4: SEDIMENT POND**  
SCALE: NTS

**MAINTENANCE:**  
1. REPAIR/REPLACE BAFFLES WHEN THEY  
COLLAPSE, TEAR OR DECOMPOSE.  
2. REMOVE SEDIMENT WHEN CELL IS HALF  
FULL.

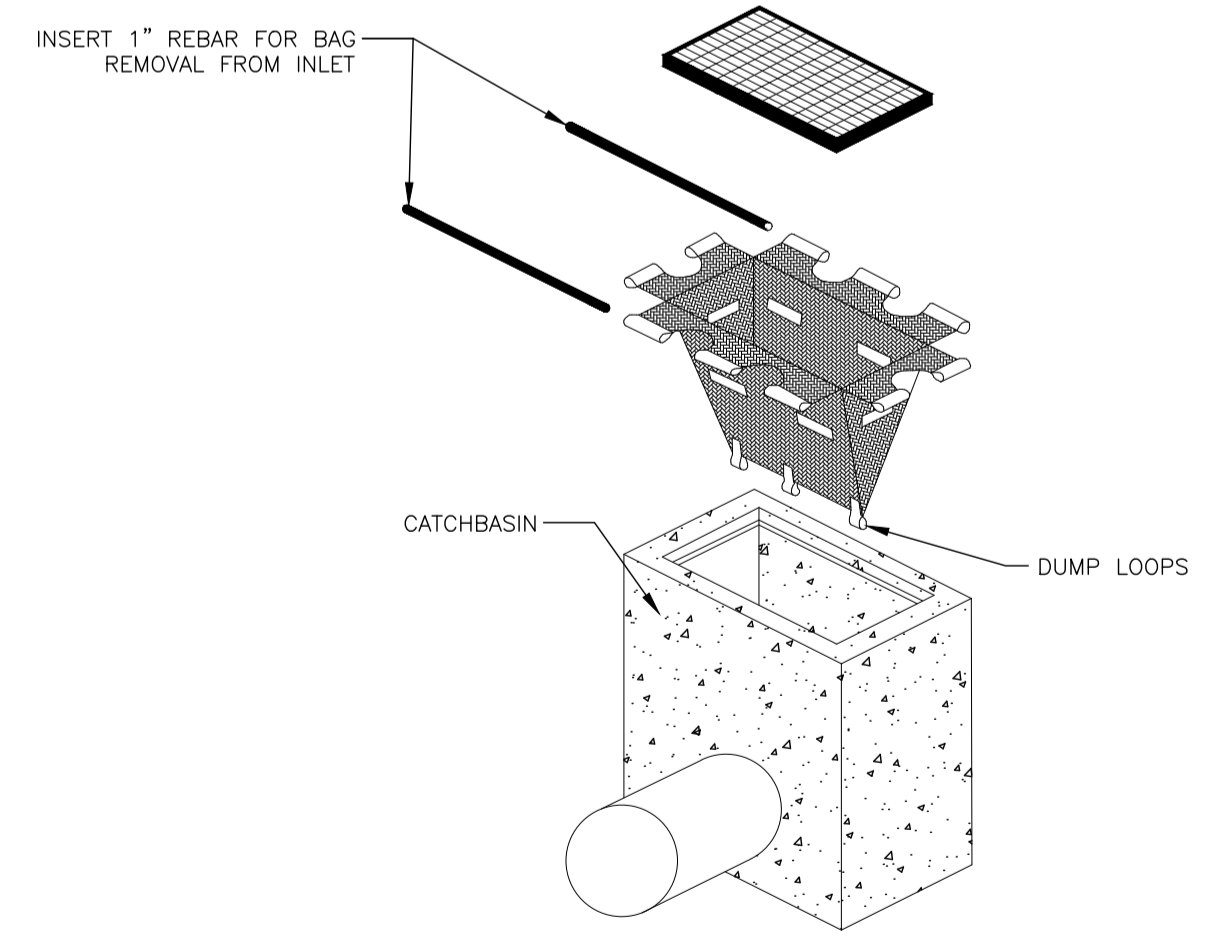


**DETAIL 5: SEDIMENT CONTROL CHECK DAM**  
SCALE: NTS

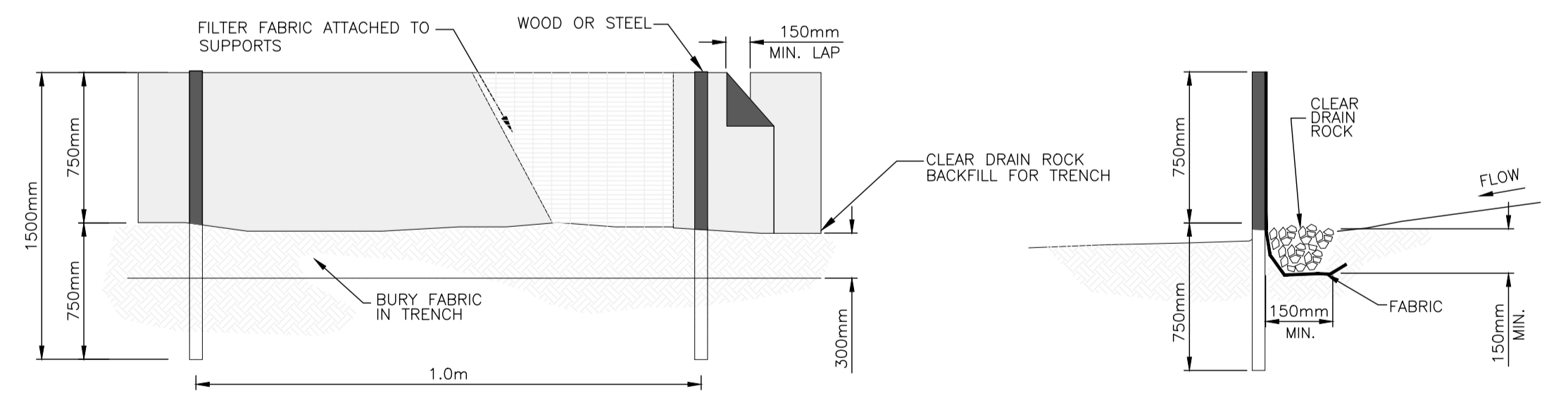


**NOTES:**  
1. MINIMUM 300mm OVERLAP OF ALL SEAMS  
REQUIRED.  
2. COVERING MAINTAINED TIGHTLY IN PLACE BY  
USING SANDBAGS OR TIRES ON ROPES WITH A  
MAXIMUM 3.0m GRID SPACING IN ALL DIRECTIONS.

**DETAIL 6: PLASTIC SHEETING**  
SCALE: NTS



**DETAIL 7: FILTER SOCK**  
SCALE: NTS



**DETAIL 8: SILT FENCE**  
SCALE: NTS

H:\Projects\31566\_Co.S. Elgin Hall Civil Design Service\02\_CADD\20\_Drafting\201\_Sheets\ESC\31566\_05\_ESC\_DETAILS.dwg

LEGAL DESCRIPTION	####		
SURVEY BENCHMARK			
REV.	DATE	DESCRIPTION	BY
2	MAR 26, 2018	ISSUED FOR TENDER	TJA
1	AUGUST 18, 2016	ESC PLAN FOR CITY'S REVIEW	TJA

ESC SUPERVISOR

CONSULTANT

SUITE 301, 20338 - 65 AVENUE  
LANGLEY, BRITISH COLUMBIA, V2Y 2X3  
(604) 530-2288 FAX: (604) 530-1132

CLIENT

**City of Surrey**  
13450 104 Ave. Surrey, BC,  
Canada V3T 1V8

TITLE

**ELGIN HALL PARKING UPGRADE  
EROSION AND SEDIMENT CONTROL PLAN  
DETAILS**

SCALE: HOR. NTS  
VERT. NTS

DATE (YYYY.MM.DD)  
**16-07-26**

DESIGNED  
MTM

DRAWN  
###

REVIEWED  
DEN

CONSULTANT PROJ. NO.  
**31566**

DWG. NO.  
**05**

REVISION NO.  
REV.

SURREY PROJECT NUMBER	
SURREY DRAWING NUMBER	

DESTROY ALL PRINTS BEARING PREVIOUS NUMBER