

GENERAL

- DRAWINGS TO BE READ IN CONJUNCTION WITH ARCHITECTURAL AND LANDSCAPE DRAWINGS.
 - ALL SERVICES, MATERIALS, CONSTRUCTION METHODS AND INSTALLATIONS SHALL BE IN ACCORDANCE WITH THE LATEST STANDARDS AND REGULATIONS OF THE: CITY OF OTTAWA STANDARD SPECIFICATIONS AND DRAWINGS, ONTARIO PROVINCIAL SPECIFICATION STANDARD SPECIFICATION (OPSS) AND ONTARIO PROVINCIAL STANDARD DRAWINGS (OPSD), UNLESS OTHERWISE SPECIFIED, TO THE SATISFACTION OF THE CITY AND THE CONSULTANT.
 - THE POSITION OF EXISTING POLE LINES, CONDUITS, WATERMANS, SEWERS AND OTHER UNDERGROUND AND ABOVEGROUND UTILITIES, STRUCTURES AND APPURTENANCES IS NOT NECESSARILY SHOWN ON THE CONTRACT DRAWING, AND WHERE SHOWN, THE ACCURACY OF THE POSITION OF SUCH UTILITIES AND STRUCTURES IS NOT GUARANTEED. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL SATISFY THEMSELVES OF THE EXACT LOCATION OF ALL SUCH UTILITIES AND STRUCTURES AND SHALL ASSUME ALL LIABILITY FOR DAMAGE TO THEM DURING THE COURSE OF CONSTRUCTION, ANY RELOCATION OF EXISTING UTILITIES REQUIRED BY THE DEVELOPMENT OF SUBJECT LANDS IS TO BE UNDERTAKEN AT CONTRACTOR'S EXPENSE.
 - THE CONTRACTOR MUST NOTIFY ALL EXISTING UTILITY COMPANY OFFICIALS FIVE (5) BUSINESS DAYS PRIOR TO START OF CONSTRUCTION AND HAVE ALL EXISTING UTILITIES AND SERVICES LOCATED IN THE FIELD OR EXPOSED PRIOR TO THE START OF CONSTRUCTION, INCLUDING BUT NOT LIMITED TO POWER, COMMUNICATION AND GAS LINES.
 - ALL TRENCHING AND EXCAVATIONS TO BE IN ACCORDANCE WITH THE LATEST REVISIONS OF THE OCCUPATIONAL HEALTH AND SAFETY ACT AND REGULATIONS FOR CONSTRUCTION PROJECTS AND AS PER THE RECOMMENDATIONS INCLUDED IN THE FOLLOWING GEOTECHNICAL REPORT:
 - REPORT PGS701-1 PREPARED PATERSON GROUP, DATED MARCH 10, 2021 AND TITLED "GEOTECHNICAL INVESTIGATION - PROPOSED RESIDENTIAL DEVELOPMENT - KANATA - BLOCK 344 - 620 BOBOLINK RIDGE, OTTAWA, ONTARIO".
 - REFER TO ARCHITECTS PLANS FOR BUILDING DIMENSIONS, LAYOUT AND REMOVALS. REFER TO LANDSCAPE PLAN FOR LANDSCAPED DETAILS AND OTHER RELEVANT INFORMATION. ALL INFORMATION SHALL BE CONFIRMED PRIOR TO COMMENCEMENT OF CONSTRUCTION.
 - TOPOGRAPHIC SURVEY COMPLETED AND PROVIDED BY ANNIS, O'SULLIVAN, VOLLEBEK LTD. DATED ON APRIL 16, 2021. CONTRACTOR TO VERIFY IN THE FIELD PRIOR TO CONSTRUCTION OF ANY WORK AND NOTIFY THE ENGINEER OF ANY DISCREPANCIES.
 - ALL ELEVATIONS ARE GEODETIC AND UTILIZE METRIC UNITS. VERIFY THAT JOB BENCHMARKS HAVE NOT BEEN ALTERED OR DISTURBED.
 - ALL GROUND SURFACES SHALL BE EVENLY GRADED WITHOUT PONDING AREAS AND WITHOUT LOW POINTS EXCEPT WHERE APPROVED SWALE OR CATCH BASIN OUTLETS ARE PROVIDED.
 - ALL EDGES OF DISTURBED PAVEMENT SHALL BE SAW CUT TO FORM A NEAT AND STRAIGHT LINE PRIOR TO PLACING NEW PAVEMENT. PAVEMENT REINSTATEMENT SHALL BE WITH STEP JOINTS OF 500MM WIDTH MINIMUM PER DETAIL 2/C1.7.
 - ALL DISTURBED AREAS OUTSIDE PROPOSED GRADING LIMITS ARE TO BE RESTORED TO ORIGINAL ELEVATIONS AND CONDITIONS UNLESS OTHERWISE SPECIFIED. ALL RESTORATION SHALL BE COMPLETED WITH THE GEOTECHNICAL REQUIREMENTS FOR BACKFILL AND COMPACTION.
 - ABUTTING PROPERTY GRADES TO BE MATCHED UNLESS OTHERWISE SHOWN.
 - CONTRACTOR SHALL OBTAIN AND PAY FOR ALL NECESSARY PERMITS AND APPROVALS FROM THE MUNICIPAL AUTHORITIES PRIOR TO COMMENCING CONSTRUCTION, INCLUDING WATER PERMIT AND ROAD CUT PERMIT.
 - MINIMIZE DISTURBANCE TO EXISTING VEGETATION DURING THE EXECUTION OF ALL WORKS.
 - REMOVE FROM SITE ALL EXCESS EXCAVATED MATERIAL UNLESS OTHERWISE DIRECTED FROM THE ENGINEER. EXCAVATE AND REMOVE ALL ORGANIC MATERIAL AND DEBRIS LOCATED WITHIN THE PROPOSED BUILDING, PARKING AND ROADWAY LOCATIONS.
 - AT PROPOSED UTILITY CONNECTION POINTS AND CROSSINGS (I.E. STORM SEWER, SANITARY SEWER, WATER, ETC.) THE CONTRACTOR SHALL DETERMINE THE PRECISE LOCATION AND DEPTH OF EXISTING UTILITIES AND REPORT ANY DISCREPANCIES OR CONFLICTS TO THE ENGINEER BEFORE COMMENCING WORK.
 - CONTRACTOR TO OBTAIN POST-CONSTRUCTION TOPOGRAPHIC SURVEY, COMPLETED BY OLS OR P.ENG CONFIRMING COMPLIANCE WITH DESIGN GRADING AND SERVICING. SURVEY IS TO INCLUDE LOCATION AND INVERTS FOR BURIED UTILITIES.
 - ABIDE BY RECOMMENDATIONS OF GEOTECHNICAL REPORT. REPORT ANY VARIATIONS IN OBSERVED CONDITIONS FROM THOSE INCLUDED IN REPORT.
 - ADDITIONAL REPORT REFERENCES
 - DESIGN BRIEF, PREPARED BY IBI GROUP, PROJ. NO. 27970-5.2.2, JULY 2017
 - PROVIDE CCTV INSPECTION REPORT FOR ALL SEWERS AND CATCHBASIN LEADS 200MM DIAMETER AND LARGER. REPEAT CCTV INSPECTION FOLLOWING RECTIFICATION OF ANY DEFICIENCIES.
 - SEWER SERVICE CONNECTIONS TO FLEXIBLE MAIN SEWER PIPES AND RIGID MAIN SEWER PIPES SHALL BE PER RESPECTIVE CITY OF OTTAWA STANDARD S11, S11.1, AND S11.2.
 - COMMON TRENCHES FOR TOWNHOME SERVICING SHALL BE PER CITY OF OTTAWA STANDARD S11.3.
 - CONTRACTOR TO FIELD VERIFY AND REPORT TO ENGINEER OF RECORD THE ELEVATION, MATERIAL, AND DIAMETER OF EXISTING UTILITIES AT ALL PROPOSED CONNECTIONS PRIOR TO CONSTRUCTION.
- 24. WATERMAIN**
- ALL WATERMAIN AND WATERMAIN APPURTANANCES, MATERIALS, CONSTRUCTION AND TESTING METHODS SHALL CONFORM TO THE CURRENT CITY OF OTTAWA AND MINISTRY OF ENVIRONMENT, CONSERVATION, AND PARKS WATERWORKS GUIDELINES.
 - ALL WATERMAIN 300MM DIAMETER AND SMALLER TO BE POLY VINYL CHLORIDE (PVC) CLASS 150 DR 18 MEETING AWWA SPECIFICATION C900.
 - ALL WATERMAIN TO BE INSTALLED AT MINIMUM COVER OF 2.4M BELOW FINISHED GRADE. WHERE WATERMANS CROSS OVER OTHER UTILITIES, A MINIMUM 0.30M CLEARANCE SHALL BE MAINTAINED; WHERE WATERMANS CROSS UNDER OTHER UTILITIES, A MINIMUM 0.50M CLEARANCE SHALL BE MAINTAINED. WHERE THE MINIMUM SEPARATION CANNOT BE ACHIEVED, THE WATERMAIN SHALL BE INSTALLED AS PER CITY OF OTTAWA STANDARDS W25 AND W25.2. WHERE 2.4M MINIMUM DEPTH CANNOT BE ACHIEVED, THERMAL INSULATION SHALL BE PROVIDED AS PER CITY OF OTTAWA STANDARD W22. WHERE A WATERMAIN IS IN CLOSE PROXIMITY TO AN OPEN STRUCTURE, THERMAL INSULATION SHALL BE PROVIDED AS PER CITY OF OTTAWA STANDARD W23.
 - CONCRETE THRUST BLOCKS AND MECHANICAL RESTRAINTS ARE TO BE INSTALLED AT ALL TEES, BENDS, HYDRANTS, REDUCERS, ENDS OF MAINS AND CONNECTIONS 100MM AND LARGER, IN ACCORDANCE WITH CITY OF OTTAWA STANDARDS W25.3 & W25.4.
 - CATHODIC PROTECTION REQUIRED FOR ALL IRON FITTINGS AS PER CITY OF OTTAWA STANDARD W40 & W42.
 - DOMESTIC WATER SERVICES SHALL BE IN ACCORDANCE WITH CITY STANDARD DETAIL W26.
 - ALL VALVES AND VALVE BOXES AND CHAMBERS, HYDRANTS, AND HYDRANT VALVES AND ASSEMBLES SHALL BE INSTALLED AS PER CITY OF OTTAWA STANDARD.
 - FIRE HYDRANT LOCATION AND INSTALLATION AS PER CITY OF OTTAWA STANDARD W18 & W19. CONTRACTOR TO PROVIDE FLOW TEST AND PAINTING OF NEW HYDRANT IN ACCORDANCE WITH CITY STANDARDS.
 - IF WATERMAIN MUST BE DEFLECTED TO MEET ALIGNMENT, ENSURE THAT THE AMOUNT OF DEFLECTION USED IS LESS THAN HALF THAT RECOMMENDED BY THE MANUFACTURER.
 - REFER TO LANDSCAPE DRAWINGS FOR IRRIGATION SYSTEM REQUIREMENTS (IF APPLICABLE).
 - WATERMAIN DEAD ENDS SHALL BE IN ACCORDANCE WITH CITY STANDARD DETAIL W37.2
- 25. SANITARY SEWER AND MANHOLES**
- ALL SANITARY SEWER, SANITARY SEWER APPURTENANCES AND CONSTRUCTION METHODS SHALL CONFORM TO THE CURRENT CITY OF OTTAWA STANDARDS AND SPECIFICATIONS. PROVIDE CCTV INSPECTION REPORTS FOR ALL NEW SANITARY PIPING. PROVIDE DYE TESTING FOR NEW SERVICES.
 - SANITARY SEWER PIPE SIZE 150MM DIAMETER AND GREATER TO BE PVC SDR-35 (UNLESS SPECIFIED OTHERWISE) WITH RUBBER GASKET TYPE JOINTS IN CONFORMANCE WITH CSA B-182.2,3,4.
 - SEWER BEDDING AS PER CITY OF OTTAWA DETAIL S6.
 - ALL SANITARY MANHOLES 1200MM IN DIAMETER TO BE AS PER OPSD 701.01. FRAME AND COVER TO BE AS PER CITY OF OTTAWA STANDARD S25 AND S24.
 - MAINTENANCE HOLE BENCHING AND PIPE OPENING ALTERNATIVES AS PER THE OPSD 701.021
 - ANY NEW OR EXISTING SANITARY SEWER (INCLUDING SERVICE LATERALS) WITH LESS THAN 2.0M COVER REQUIRES THERMAL INSULATION AS PER DETAIL 3/C1.7 OR APPROVED BY THE ENGINEER.
 - SANITARY MANHOLE WHICH RESIDE WITHIN 100-YEAR STORMWATER PONDING AREAS SHALL BE EQUIPPED WITH WATER-TIGHT LIDS IN ACCORDANCE WITH CITY STANDARD.

26. STORM SEWERS AND STRUCTURES

- ALL STORM SEWER MATERIALS AND CONSTRUCTION METHODS SHALL CONFORM TO THE CURRENT CITY OF OTTAWA STANDARDS AND SPECIFICATIONS. PROVIDE CCTV INSPECTION REPORTS FOR ALL NEW STORM SEWERS, SERVICES AND CB LEADS.
- STORM SEWERS 450MM DIAMETER AND SMALLER SHALL BE PVC SDR-35, WITH RUBBER GASKET PER CSA A-257.3.
- STORM SEWER LARGER THAN 450MM SHALL BE REINFORCED CONCRETE CLASS 100.
- SEWER BEDDING AS PER CITY OF OTTAWA DETAIL S6.
- ALL STORM MANHOLES TO BE AS PER STORM STRUCTURE TABLE ON DRAWING C1.4 AND C1.5. ALL SANITARY MANHOLES SHALL BE PER ONTARIO PROVINCIAL STANDARDS. FRAME AND COVER TO BE AS PER CITY OF OTTAWA STANDARD S24 AND S25, UNLESS OTHERWISE SPECIFIED.
- ANY NEW OR EXISTING STORM SEWER (INCLUDING SERVICE LATERALS) WITH LESS THAN 2.0M COVER REQUIRES THERMAL INSULATION AS PER DETAIL 3/C1.7 OR APPROVED BY THE ENGINEER.
- CB IN LANDSCAPE AREAS SHALL BE AS PER CITY OF OTTAWA STANDARD S29, S30 AND S31, UNLESS OTHERWISE SPECIFIED.
- ALL CATCHBASIN LEADS TO BE MINIMUM 200MM DIAMETER AT MINIMUM 1.0% SLOPE UNLESS OTHERWISE SPECIFIED.
- STORM CATCHBASINS AS PER OPSD 705.010 AND FRAME/COVER AS PER CITY STANDARD DRAWINGS S19.
- INSTALLATION OF FLOW CONTROL LID'S TO BE VERIFIED BY QUALITY VERIFICATION ENGINEER RETAINED BY CONTRACTOR.

27. PARKING LOT AND WORK IN PUBLIC RIGHTS OF WAY

- CONTRACTOR TO REINSTATE ROAD CUTS AS PER CITY OF OTTAWA DETAIL R10.
- CONTRACTOR TO PREPARE SUBGRADE, INCLUDING PROOFROLLING, TO THE SATISFACTION OF THE GEOTECHNICAL CONSULTANT PRIOR TO THE COMMENCEMENT OF PLACEMENT OF SUB-BASE MATERIAL.
- FILL TO BE PLACED AND COMPACTED PER THE GEOTECHNICAL REPORT REQUIREMENTS.
- CONTRACTOR TO SUPPLY, PLACE AND COMPACT SUB-BASE MATERIAL IN ACCORDANCE WITH THE RECOMMENDATIONS OF THE GEOTECHNICAL CONSULTANT. CONTRACTOR TO PROVIDE CONSULTANT WITH SAMPLES OF SUB-BASE MATERIAL FOR TESTING AND CERTIFICATION FROM THE GEOTECHNICAL CONSULTANT THAT THE MATERIAL MEETS THE GRADATION REQUIREMENTS SPECIFIED IN THE GEOTECHNICAL REPORT.
- BASE MATERIAL TO BE PLACED ONLY UPON APPROVAL BY THE GEOTECHNICAL CONSULTANT OF SUB-BASE PLACEMENT.
- CONTRACTOR TO SUPPLY, PLACE AND COMPACT BASE MATERIAL IN ACCORDANCE WITH THE RECOMMENDATIONS OF THE GEOTECHNICAL CONSULTANT. CONTRACTOR TO PROVIDE CONSULTANT WITH SAMPLES OF BASE MATERIAL FOR TESTING AND CERTIFICATION FROM THE GEOTECHNICAL CONSULTANT THAT THE MATERIAL MEETS THE GRADATION REQUIREMENTS SPECIFIED IN THE GEOTECHNICAL REPORT.
- ASPHALT MATERIAL TO BE PLACED ONLY UPON APPROVAL BY THE GEOTECHNICAL CONSULTANT OF BASE PLACEMENT.
- CONTRACTOR TO SUPPLY, PLACE AND COMPACT ASPHALT MATERIAL IN ACCORDANCE WITH THE RECOMMENDATIONS OF THE GEOTECHNICAL CONSULTANT. CONTRACTOR TO PROVIDE CONSULTANT WITH SAMPLES OF ASPHALT MATERIAL FOR TESTING AND CERTIFICATION FROM THE GEOTECHNICAL CONSULTANT THAT THE MATERIAL MEETS THE REQUIREMENTS SPECIFIED IN THE GEOTECHNICAL REPORT.
- CONTRACTOR IS RESPONSIBLE FOR ESTABLISHING LINE AND GRADE IN ACCORDANCE WITH THE PLANS, AND FOR PROVIDING THE CONSULTANT WITH VERIFICATION PRIOR TO PLACEMENT.
- ALL EXCESS MATERIAL TO BE HAULED OFF-SITE AND DISPOSED OF AT AN APPROVED DUMP SITE. SHOULD THE CONTRACTOR DISCOVER ANY HAZARDOUS MATERIAL, CONTRACTOR IS TO NOTIFY CONSULTANT. CONSULTANT TO DETERMINE APPROPRIATE DISPOSAL METHOD/LOCATION.
- PAVEMENT STRUCTURE (MATERIAL TYPES AND THICKNESS) FOR HEAVY DUTY AND LIGHT DUTY AREAS TO BE AS SPECIFIED IN THE GEOTECHNICAL REPORT AND SHOWN ON THE PLANS.

28. EROSION AND SEDIMENT CONTROL

- ** CONTRACTOR IS RESPONSIBLE FOR ALL INSTALLATION, MONITORING, REPAIR AND REMOVAL OF ALL EROSION AND SEDIMENT CONTROL FEATURES. ****
- PRIOR TO START OF CONSTRUCTION:**
 - INSTALL SILT FENCE IN LOCATION SHOWN ON DWG C1.8.
 - INSTALL FILTER FABRIC OR SILT SACK FILTERS IN ALL THE CATCHBASINS AND MANHOLES TO REMAIN DURING CONSTRUCTION WITHIN THE SITE (SEE DETAIL 8/C1.7).
 - INSPECT MEASURES IMMEDIATELY AFTER INSTALLATION.
 - DURING CONSTRUCTION:**
 - MINIMIZE THE EXTENT OF DISTURBED AREAS AND THE DURATION OF EXPOSURE AND IMPACTS TO EXISTING GRADING.
 - PERIMETER VEGETATION TO REMAIN IN PLACE UNTIL PERMANENT STORM WATER MANAGEMENT IS IN PLACE. OTHERWISE, IMMEDIATELY INSTALL SILT FENCE WHEN THE EXISTING SITE IS DISTURBED AT THE PERIMETER.
 - PROTECT DISTURBED AREAS FROM OVERLAND FLOW BY PROVIDING TEMPORARY SWALES TO THE SATISFACTION OF THE FIELD ENGINEER. TIE-IN TEMPORARY SWALE TO EXISTING CATCH BASINS AS REQUIRED.
 - PROVIDE TEMPORARY COVER SUCH AS SEEDING OR MULCHING IF DISTURBED AREA WILL NOT BE REHABILITATED WITHIN 30 DAYS.
 - INSPECT SILT FENCES, FILTER FABRIC FILTERS AND CATCH BASIN SUMPS WEEKLY AND WITHIN 24 HOURS AFTER A STORM EVENT. CLEAN AND REPAIR WHEN NECESSARY.
 - SEDIMENT AND EROSION CONTROL PLAN DRAWING TO BE REVIEWED AND REVISED AS REQUIRED DURING CONSTRUCTION.
 - EROSION CONTROL FENCING TO BE INSTALLED AROUND THE BASE OF ALL STOCKPILES.
 - DO NOT LOCATE TOPSOIL PILES AND EXCAVATION MATERIAL CLOSER THAN 2.5M FROM ANY PAVED SURFACE, OR ONE WHICH IS TO BE PAVED BEFORE THE PILE IS REMOVED. ALL TOPSOIL PILES ARE TO BE SEEDED IF THEY ARE TO REMAIN ON-SITE LONG ENOUGH FOR SEEDS TO GROW (LONGER THAN 30 DAYS).
 - CONTROL WIND-BLOWN DUST OFF-SITE BY SEEDING TOPSOIL PILES AND OTHER AREAS TEMPORARILY (PROVIDE WATERING AS REQUIRED AND TO THE SATISFACTION OF THE ENGINEER).
 - NO ALTERNATE METHODS OF EROSION PROTECTION SHALL BE PERMITTED UNLESS APPROVED BY THE FIELD ENGINEER.
 - CITY ROADWAY AND SIDEWALK TO BE CLEANED OF ALL SEDIMENT FROM VEHICULAR TRACKING AS REQUIRED.
 - DURING WET CONDITIONS, TIRES OF ALL VEHICLES/EQUIPMENT LEAVING THE SITE ARE TO BE SCRAPED.
 - ANY MUD/MATERIAL TRACKED ONTO THE ROAD SHALL BE REMOVED IMMEDIATELY BY HAND OR RUBBER TIRE LOADER.
 - TAKE ALL NECESSARY STEPS TO PREVENT BUILDING MATERIAL, CONSTRUCTION DEBRIS OR WASTE BEING SPILLED OR TRACKED ONTO ABUTTING PROPERTIES OR PUBLIC STREETS DURING CONSTRUCTION AND PROCEED IMMEDIATELY TO CLEAN UP ANY AREAS SO AFFECTED.
 - ALL EROSION CONTROL STRUCTURE TO REMAIN IN PLACE UNTIL ALL DISTURBED GROUND SURFACES HAVE BEEN STABILIZED EITHER BY PAVING OR RESTORATION OF VEGETATIVE GROUND COVER.
 - THE CONTRACTOR SHALL IMPLEMENT BEST MANAGEMENT PRACTICES, TO PROVIDE FOR PROTECTION OF THE AREA DRAINAGE SYSTEM AND THE RECEIVING WATERCOURSE, DURING CONSTRUCTION ACTIVITIES. THE CONTRACTOR ACKNOWLEDGES THAT FAILURE TO IMPLEMENT APPROPRIATE EROSION AND SEDIMENT CONTROL MEASURES MAY BE SUBJECT TO PENALTIES IMPOSED BY ANY APPLICABLE REGULATORY AGENCY.

INLET CONTROL DEVICE (ICD) SCHEDULE

HOST STRUCTURE	ICD POSITION (DIRECTION & INLET/ OUTLET)	INVERT ELEV. (m)	ORIFICE DIA. (mm)	PEAK DISCHARGE (L/S)		ACTING HEAD (m)	
				2-YEAR	100-YEAR	2-YEAR	100-YEAR
CB03	NORTH (OUTLET)	105.85	75	15	19	1.38	2.37
CB04	WEST (OUTLET)	105.80	60	8	12	1.05	2.35
CB06	EAST (OUTLET)	105.95	43	3	6	0.58	2.28
CB07	EAST (OUTLET)	105.95	43	3	6	0.58	2.28
CB08	WEST (OUTLET)	105.50	75	18	20	1.88	2.49
CB10	WEST (OUTLET)	105.65	60	7	12	0.80	2.38
CB11	WEST (OUTLET)	105.80	80	17	22	1.49	2.36
CB12	WEST (OUTLET)	105.81	60	7	12	0.80	2.29
CBMH13	WEST (OUTLET)	105.80	75	18	21	1.98	3.14
CB14	SOUTH (OUTLET)	105.75	53	6.5	9.5	1.04	2.34
CB15	NORTH (OUTLET)	105.75	53	6.5	9.5	0.95	2.34
CB16	WEST (OUTLET)	105.51	50	5	9	0.92	2.35
MH409	WEST (OUTLET)	104.81	190	49	64	0.76	1.24
RYCB02	SOUTH (OUTLET)	106.05	75	4	13	0.13	1.06
RYCB09	WEST (OUTLET)	105.69	60	8	12	0.89	2.37
RYCB18	SOUTHWEST (OUTLET)	105.39	120	14	34	0.23	1.17

NOTES:

- TABLE SHALL BE READ IN CONJUNCTION WITH SITE STORMWATER MANAGEMENT REPORT (DATED OCTOBER 15, 2021, PREPARED BY WSP CANADA INC.).
- WHERE ICD DIAMETERS ARE LESS THAN 75mm (REQUIRED MINIMUM PER MEC/P), MANUFACTURED LOW-FLOW ICD'S WILL BE REQUIRED WITH SIMILAR DISCHARGE PERFORMANCE NOTED ACTIVE HEAD. PROPOSED DEVICES SHALL BE SUBJECT TO ENGINEER'S REVIEW AND APPROVAL.
- UNLESS OTHERWISE SPECIFIED, ALL INLET CONTROL DEVICES (ICD'S) SHALL BE ORIFICE PLATES COMPOSED OF STAINLESS STEEL, BOLTED TO THE INSIDE OF THE REFERENCED STRUCTURES. ANY GAP BETWEEN PLATE PERIMETER AND STRUCTURE WALL SHALL BE SEALED USING A MASTIC SEALANT.

ALIGNMENT DATA

START STATION	END STATION	DESCRIPTION
1+000	1+278.75	MADDER STREET
2+000	2+052.73	NORTH ENTRANCE
3+000	3+052.60	SOUTH ENTRANCE
4+000	4+040.18	NORTH PARKING LOT
5+000	5+040.18	SOUTH PARKING LOT

TEMPORARY BENCH MARKS

TBM #	NORTHING (m)	EASTING (m)	ELEVATION (m)	DESCRIPTION
1	5014544.60	352417.98	109.680	FIRE HYDRANT TOP OF SPINDLE
2	5014377.94	352507.78	109.170	FIRE HYDRANT TOP OF SPINDLE

EXISTING LEGEND:

- EDGE OF PAVEMENT
- CURB
- BOTTOM OF SLOPE
- TOP OF SLOPE
- MAJOR CONTOURS
- MINOR CONTOURS
- OVERHEAD WIRE
- GUY ANCHOR
- WATERMAIN
- STORM SEWER
- SANITARY SEWER
- GAS
- UNDERGROUND
- CABLE
- SWALE
- FENCE
- PROPERTY BOUNDARY
- TBM# SITE TEMPORARY BENCH MARK
- TP # TEST PIT LOCATION
- UTILITY POLE
- STREET LIGHT
- ROAD SIGN
- TRANSFORMER
- CULVERT
- ASPHALT
- SIDEWALK
- BUILDING

REMOVAL LEGEND:

- WATER SERVICE REMOVAL
- CURB REMOVAL
- TYPICAL REMOVAL
- TYPICAL RELOCATION
- PARTIAL DEPTH ASPHALT REMOVAL
- LIGHT DUTY SILT FENCE (OPSD 219.110)
- FILTER CLOTH PROTECTION
- MUD MAT

ESC LEGEND:

- LIGHT DUTY SILT FENCE (OPSD 219.110)
- FILTER CLOTH PROTECTION
- MUD MAT

PROPOSED LEGEND:

- ALIGNMENT
- EDGE OF PAVEMENT
- CONCRETE BARRIER CURB
- WATERMAIN
- WATER SERVICE
- STORM SEWER
- STORM SUBDRAIN
- SANITARY SEWER
- SANITARY SERVICE
- JOINT UTILITY TRENCH
- GRADING TOP OF SLOPE
- GRADING BOTTOM OF SLOPE
- SWALE
- SWALE c/w SUBDRAIN
- 100mm LINE PAINTING
- 1.8m HIGH PVC FENCE
- TERRACING
- STORM MANHOLE
- REAR YARD CATCH BASIN/ CLEAN OUT
- CATCH BASIN MANHOLE
- CATCH BASIN
- SANITARY MANHOLE
- FIRE HYDRANT
- WATERMAIN VALVE
- TWSI
- BUILDING ENTRANCE
- SIGN
- GRADE ELEVATION
- IBI DESIGN GRADE
- TOP OF BERM GRADE ELEVATION
- FULL DEPTH ASPHALT
- PARTIAL DEPTH ASPHALT
- CONCRETE SIDEWALK
- ASPHALT SIDEWALK
- BUILDING
- RIVER STONE
- FFE = FINISHED FLOOR ELEVATION
- T/FD = TOP OF FOUNDATION
- USF = UNDER SIDE OF FOOTING
- MUSF = MIN. UNDER SIDE OF FOOTING

1224 GARDINERS ROAD, SUITE 201
KINGSTON, ONTARIO
CANADA K7P 0G2
PHONE: 613-634-7373
WWW.WSP.COM

CONSULTANT:

M. David Blakely
Architect Inc.
2020 Prince of Wales Dr. - Suite 101
Ottawa, Ontario K2E 6Z9
Phone (613) 226-8811 Fax (613) 226-7942

SEAL:

LICENSED PROFESSIONAL ENGINEER
D. D. SEARLE
100603356
2021.10.15
PROVINCE OF ONTARIO

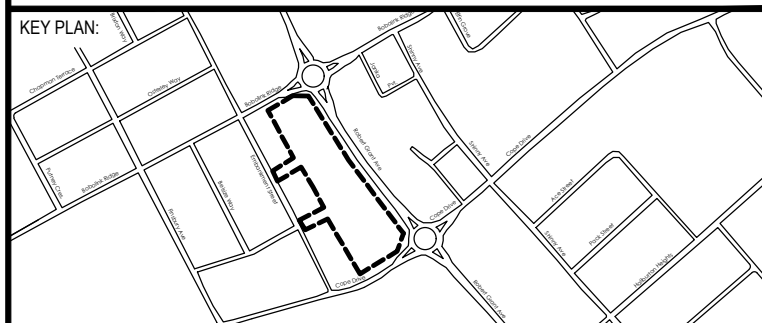
LICENSED PROFESSIONAL ENGINEER
S. P. DAVIDSON
100133944
2021.10.15
PROVINCE OF ONTARIO

CLIENT:

RICH CRAFT
Group Of Companies

CLIENT REF. #
PROJECT:

TERRACE FLATS



DISCLAIMER: THIS DRAWING AND DESIGN IS COPYRIGHT PROTECTED WHICH SHALL NOT BE USED, REPRODUCED OR REUSED WITHOUT WRITTEN PERMISSION BY WSP. THE CONTRACTOR SHALL CHECK AND VERIFY ALL DIMENSIONS AND UTILITY LOCATIONS AND REPORT ALL ERRORS AND OMISSIONS PRIOR TO COMMENCING WORK. THIS DRAWING IS NOT TO BE SCALED.

ISSUED FOR - REVISION

NO.	DATE	DESCRIPTION
2	2021-10-15	RE-ISSUED FOR SPA
1	2021-07-07	ISSUED FOR SPA

PROJECT NO: 211-01221-00
ORIGINAL SCALE: N/A
DESIGNED BY: DS
DRAWN BY: MH
CHECKED BY: SD

DATE: MARCH 2021

IF THIS BAR IS NOT 25mm LONG, ADJUST YOUR PLOTTING SCALE.

DISCIPLINE: CIVIL

TITLE: GENERAL NOTES & LEGEND

SHEET NUMBER: C0.1

SHEET # 1 OF 10

ISSUE: RE-ISSUED FOR SPA

DATE OF: OCTOBER 15, 2021

REV # 1

M:\0201\211-01221-00 - Richcraft Terrace Flats Site Plan\DWG\001 - Proposed\211-01221-00_GA.dwg Oct 15, 2021 - 12:28pm BY:hamim CITY PLAN NO. 14498

- NOTES:**
1. REFER TO DRAWING C0.1 FOR NOTES AND FULL LEGEND.
 2. ALL CURB RADII SHALL BE 1.0m UNLESS OTHERWISE NOTED.
 3. WATER AND SANITARY SERVICES ARE NOT SHOWN FOR CLARITY.
 4. REFER TO LANDSCAPE DRAWINGS FOR PLANTING DETAILS.

CONSULTANT:

M. David Blakely
 Architect Inc.
 2323 Prince of Wales Dr., Suite 101
 Ottawa, Ontario K2E 6Z9
 Phone (613) 226-8811 Fax (613) 226-7942

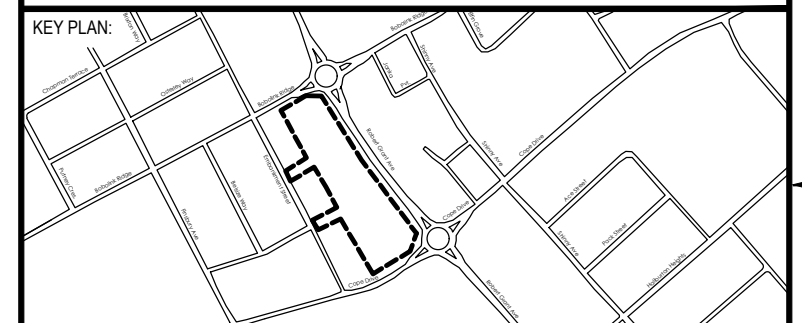
SEAL:

D. D. SEARLE
 100603356
 2021.10.15
 PROVINCE OF ONTARIO
S. P. DAVIDSON
 100133944
 2021.10.15
 PROVINCE OF ONTARIO

CLIENT:

RICHCRAFT
 Group Of Companies

CLIENT REF. #
 PROJECT:
TERRACE FLATS



DISCLAIMER: THIS DRAWING AND DESIGN IS COPYRIGHT PROTECTED WHICH SHALL NOT BE USED, REPRODUCED OR PRESENTED WITHOUT WRITTEN PERMISSION BY WSP. THE CONTRACTOR SHALL CHECK AND VERIFY ALL DIMENSIONS AND UTILITY LOCATIONS AND REPORT ALL ERRORS AND OMISSIONS PRIOR TO COMMENCING WORK. THIS DRAWING IS NOT TO BE SCALED.

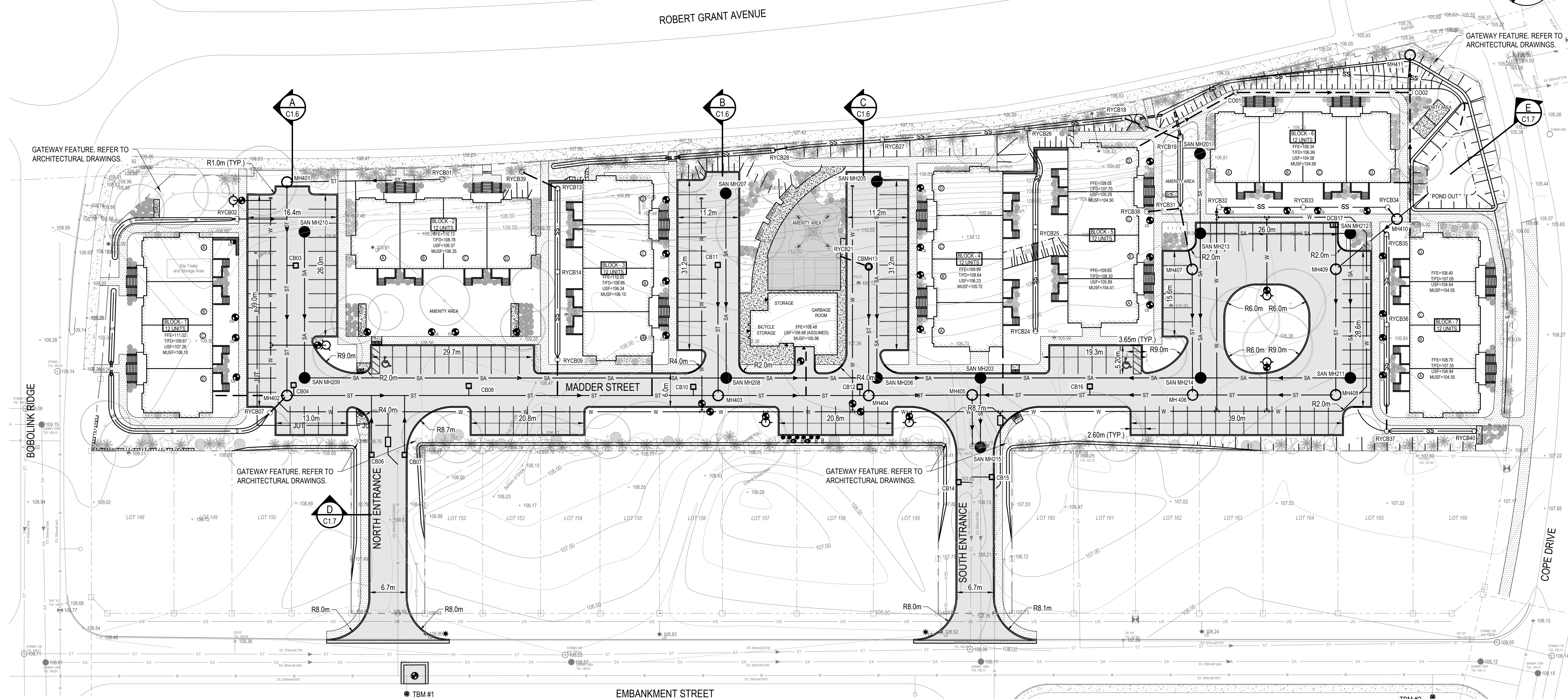
ISSUED FOR - REVISION

NO.	DATE	DESCRIPTION
2	2021-10-15	RE-ISSUED FOR SPA
1	2021-07-07	ISSUED FOR SPA

PROJECT NO: 211-01221-00
 ORIGINAL SCALE: 1:400
 DESIGNED BY: DS
 DRAWN BY: MH
 CHECKED BY: SD

DATE: MARCH 2021
 IF THIS BAR IS NOT 25mm LONG, ADJUST YOUR PLOTTING SCALE.

DISCIPLINE: CIVIL
 TITLE: **TERRACE FLATS GENERAL ARRANGEMENT PLAN**
 SHEET NUMBER: C1.1
 SHEET # 2 OF 10
 ISSUE: **RE-ISSUED FOR SPA**
 DATE OF: OCTOBER 15, 2021
 REV # 1



PROPOSED LEGEND:

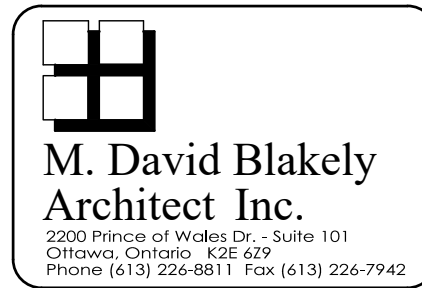
	ALIGNMENT		CATCH BASIN MANHOLE
	EDGE OF PAVEMENT		CATCH BASIN
	CONCRETE BARRIER CURB		SANITARY MANHOLE
	WATERMAIN		FIRE HYDRANT
	WATER SERVICE		WATERMAIN VALVE
	STORM SEWER		TWSI
	STORM SUBDRAIN		BUILDING ENTRANCE
	SANITARY SEWER		SIGN
	SANITARY SERVICE		GRADE ELEVATION
	JUT - JOINT UTILITY TRENCH		IBI DESIGN GRADE
	GRADING TOP OF SLOPE		TOP OF BERM GRADE ELEVATION
	GRADING BOTTOM OF SLOPE		FULL DEPTH ASPHALT
	SWALE		PARTIAL DEPTH ASPHALT
	SWALE c/w SUBDRAIN		CONCRETE SIDEWALK
	100mm LINE PAINTING		ASPHALT SIDEWALK
	1.8m HIGH PVC FENCE		BUILDING
	TERRACING		RIVER STONE
	STORM MANHOLE		
	REAR YARD CATCH BASIN		

NOTES:
1. REFER TO DRAWING C0.1 FOR NOTES AND FULL LEGEND.

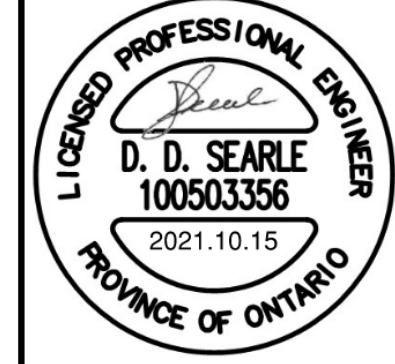


1224 GARDINERS ROAD, SUITE 201
KINGSTON, ONTARIO
CANADA K7P 0G2
PHONE: 613-634-7373
WWW.WSP.COM

CONSULTANT:



SEAL:



CLIENT:

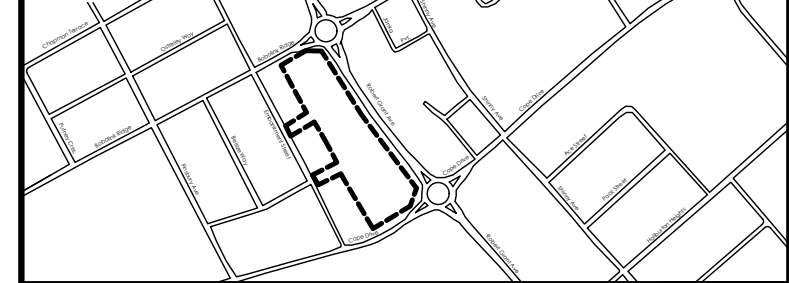


CLIENT REF. #

PROJECT:

TERRACE FLATS

KEY PLAN



DISCLAIMER: THIS DRAWING AND DESIGN IS COPYRIGHT PROTECTED WHICH SHALL NOT BE USED, REPRODUCED OR REUSED WITHOUT WRITTEN PERMISSION BY WSP. THE CONTRACTOR SHALL CHECK AND VERIFY ALL DIMENSIONS AND UTILITY LOCATIONS AND REPORT ALL ERRORS AND OMISSIONS PRIOR TO COMMENCING WORK. THIS DRAWING IS NOT TO BE SCALED.

ISSUED FOR - REVISION

IS	RE	DATE	DESCRIPTION
2		2021-10-15	RE-ISSUED FOR SPA
1		2021-07-07	ISSUED FOR SPA

PROJECT NO.	DATE
211-01221-00	MARCH 2021

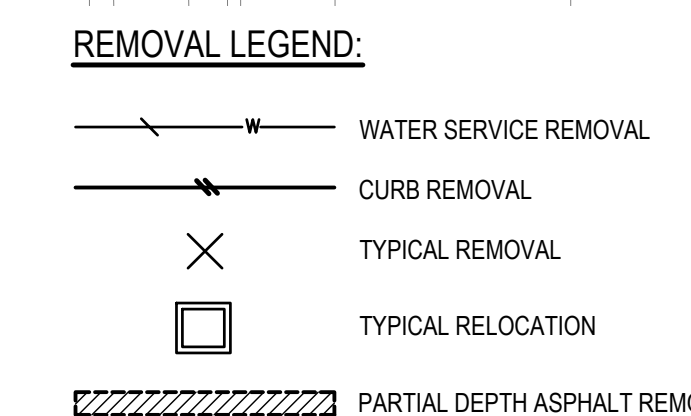
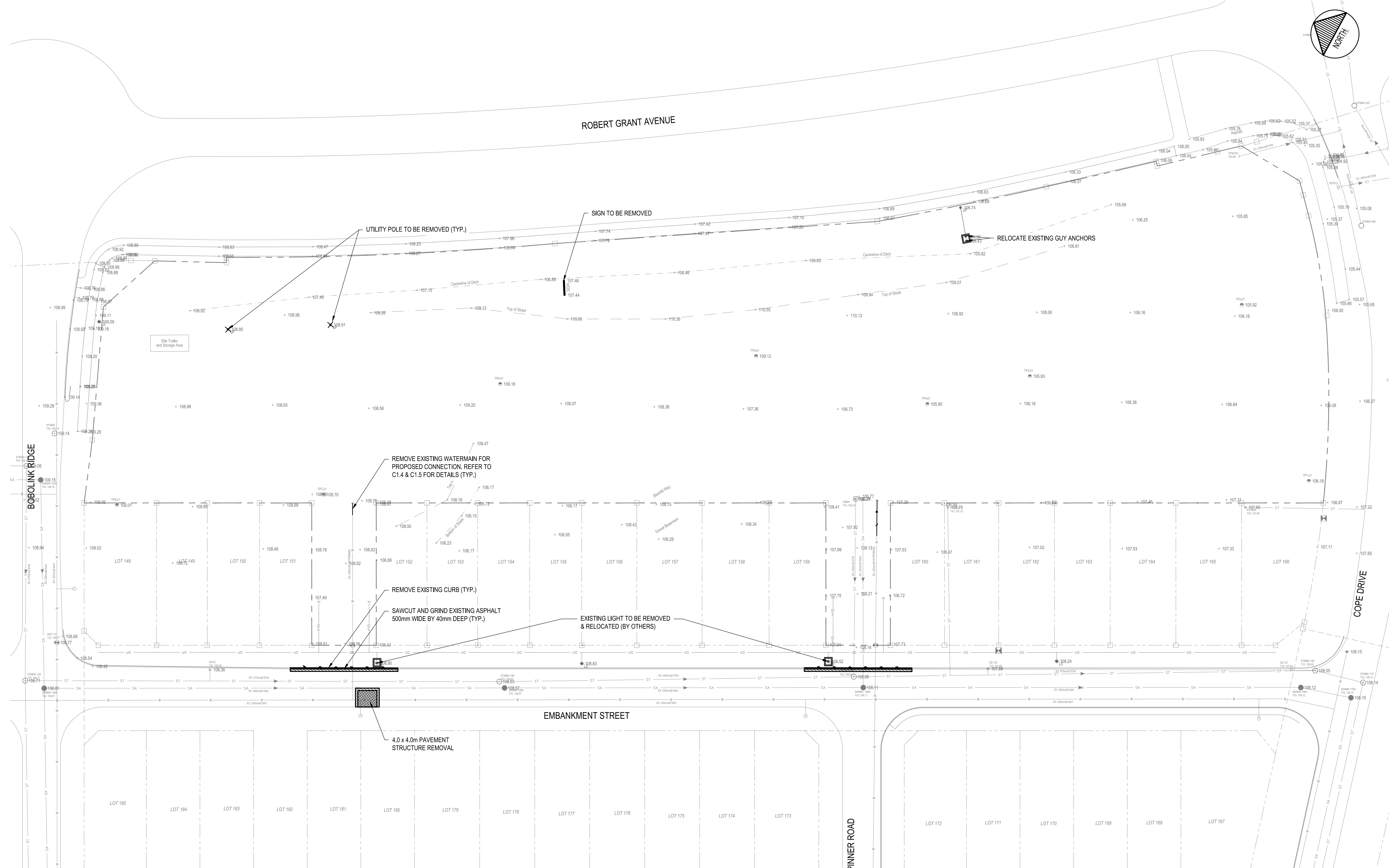
ORIGINAL SCALE:	IF THIS BAR IS NOT 25mm LONG, ADJUST YOUR PLOTTING SCALE.
1:400	

DESIGNED BY:	DRAWN BY:	CHECKED BY:	DISCIPLINE:
DS	MHJT	SD	CIVIL

TITLE:
TERRACE FLATS REMOVAL PLAN

SHEET NUMBER:	REV #
R1.0	1

ISSUE: RE-ISSUED FOR SPA
DATE OF: OCTOBER 15, 2021

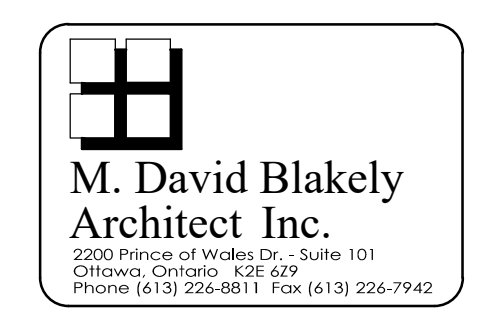


M:\2021\211-01221-00 - Richcraft Terrace Flats Site Plan\Drawings\01_Civil\01_Prod\2021-10-15_2021-01-15m Rev (Number) CITY PLAN NO. 14498

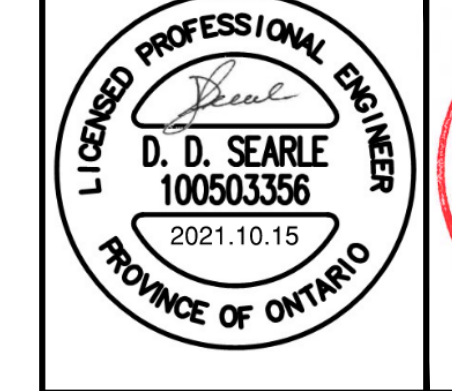


124 GARDINERS ROAD, SUITE 201
KINGSTON, ONTARIO
CANADA K7P 0G2
PHONE: 613-634-7373
WWW.WSP.COM

CONSULTANT:



SEAL:



CLIENT:

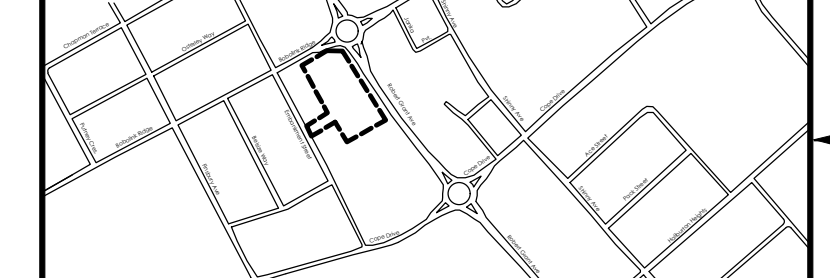


CLIENT REF. #

PROJECT:

TERRACE FLATS

KEY PLAN



DISCLAIMER: THIS DRAWING AND DESIGN IS COPYRIGHT PROTECTED WHICH SHALL NOT BE USED, REPRODUCED OR PRESENTED WITHOUT WRITTEN PERMISSION BY WSP. THE CONTRACTOR SHALL CHECK AND VERIFY ALL DIMENSIONS AND UTILITY LOCATIONS AND REPORT ALL ERRORS AND OMISSIONS PRIOR TO COMMENCING WORK. THIS DRAWING IS NOT TO BE SCALED.

ISSUED FOR - REVISION

IS	RE	DATE	DESCRIPTION
2		2021-10-15	RE-ISSUED FOR SPA
1		2021-07-07	ISSUED FOR SPA

PROJECT NO:

211-01221-00

DATE: MARCH 2021

ORIGINAL SCALE:

1:250

DESIGNED BY: DS

DRAWN BY: MH

CHECKED BY: SD

DISCIPLINE: CIVIL

TITLE: TERRACE FLATS NORTH GRADING PLAN

SHEET NUMBER: C1.2

SHEET # 4 OF 10

ISSUE: RE-ISSUED FOR SPA

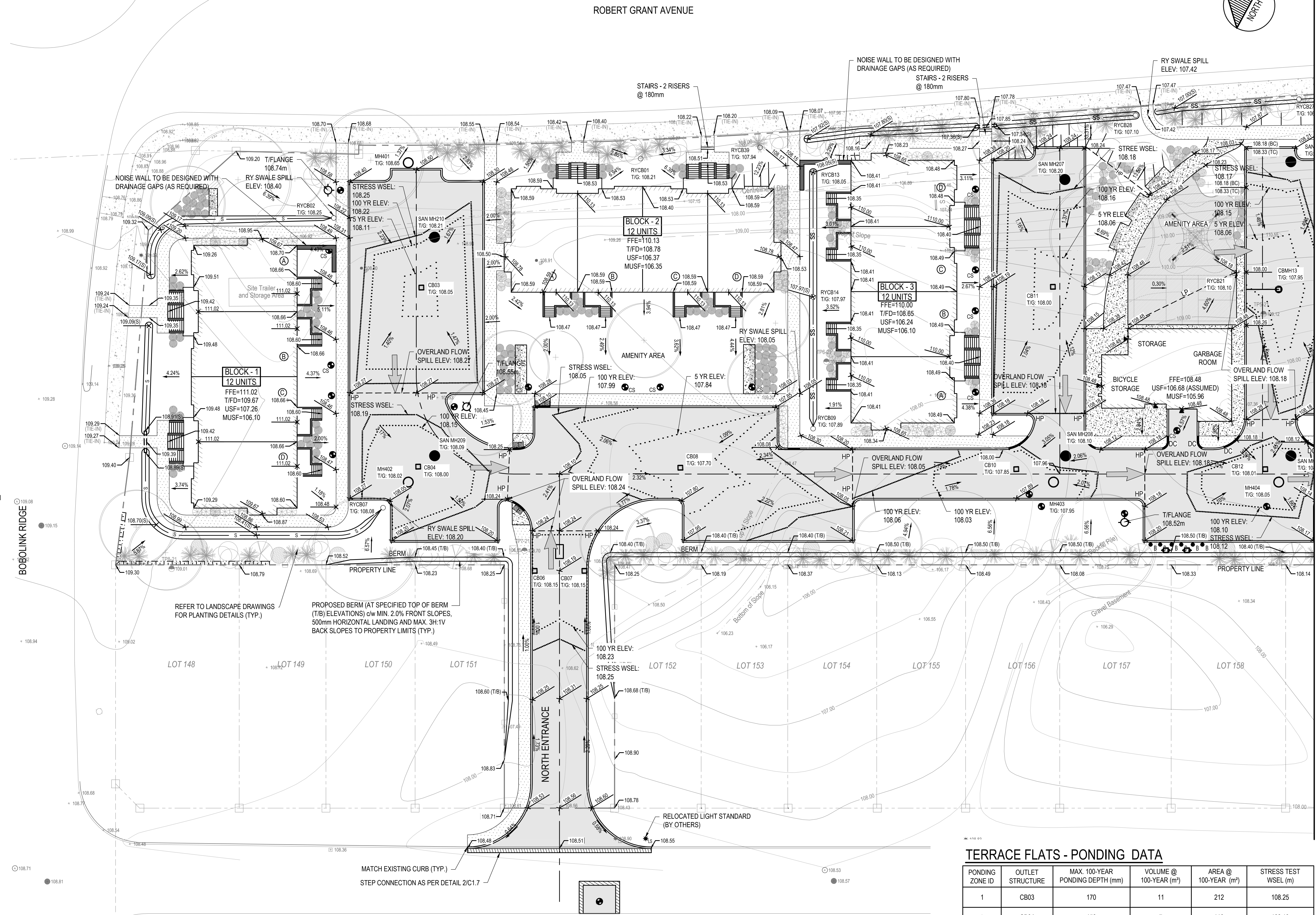
DATE OF: OCTOBER 15, 2021

REV # 1

- NOTES:
- REFER TO DRAWING C0.1 FOR NOTES AND FULL LEGEND.
 - REFER TO DRAWING C0.1 FOR INLET CONTROL DEVICE (ICD) SCHEDULE.

PROPOSED LEGEND:

- ALIGNMENT
- EDGE OF PAVEMENT
- CONCRETE BARRIER CURB
- w WATERMAIN
- WATER SERVICE
- ST STORM SEWER
- STORM SUBDRAIN
- SA SANITARY SEWER
- SANITARY SERVICE
- JUT JOINT UTILITY TRENCH
- GRADING TOP OF SLOPE
- GRADING BOTTOM OF SLOPE
- s SWALE
- SS SWALE c/w SUBDRAIN
- 100mm LINE PAINTING
- 1.8m HIGH PVC FENCE
- TERRACING
- STORM MANHOLE
- REAR YARD CATCH BASIN/CLEAN OUT
- CATCH BASIN MANHOLE
- CATCH BASIN
- SANITARY MANHOLE
- FIRE HYDRANT
- WATERMAIN VALVE
- TWSI
- ▲ BUILDING ENTRANCE
- SIGN
- 105.00 GRADE ELEVATION
- 105.00 (TB) IBI DESIGN GRADE
- 105.00 (TB) TOP OF BERM GRADE ELEVATION
- FULL DEPTH ASPHALT
- PARTIAL DEPTH ASPHALT
- CONCRETE SIDEWALK
- ASPHALT SIDEWALK
- BUILDING
- RIVER STONE
- ➔ MAJOR FLOW ROUTING



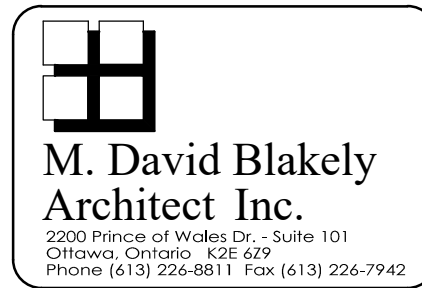
TERRACE FLATS - PONDING DATA

PONDING ZONE ID	OUTLET STRUCTURE	MAX. 100-YEAR PONDING DEPTH (mm)	VOLUME @ 100-YEAR (m³)	AREA @ 100-YEAR (m²)	STRESS TEST WSEL (m)
1	CB03	170	11	212	108.25
2	CB04	150	7	119	108.19
3	CB06 & CB07	80	3	69	108.25
4	CB08	290	33	127	108.05
5	CB10	180	7	166	108.06
6	CB11	160	10	298	108.18

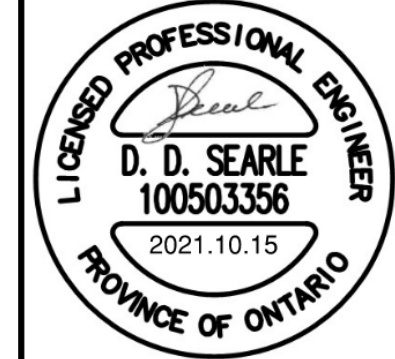


1224 GARDINERS ROAD, SUITE 201
KINGSTON, ONTARIO
CANADA K7P 0G2
PHONE: 613-634-7373
WWW.WSP.COM

CONSULTANT:



SEAL:



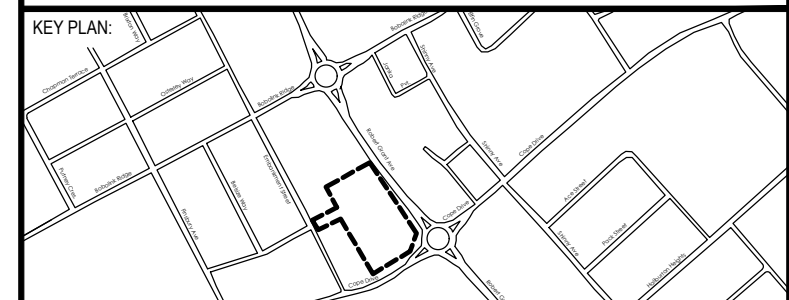
CLIENT:



CLIENT REF. #

PROJECT:

TERRACE FLATS



DISCLAIMER: THIS DRAWING AND DESIGN IS COPYRIGHT PROTECTED WHICH SHALL NOT BE USED, REPRODUCED OR REVISED WITHOUT WRITTEN PERMISSION BY WSP. THE CONTRACTOR SHALL CHECK AND VERIFY ALL DIMENSIONS AND UTILITY LOCATIONS AND REPORT ALL ERRORS AND OMISSIONS PRIOR TO COMMENCING WORK. THIS DRAWING IS NOT TO BE SCALED.

ISSUED FOR - REVISION

IS	RE	DATE	DESCRIPTION
2		2021-10-15	RE-ISSUED FOR SPA
1		2021-07-07	ISSUED FOR SPA

PROJECT NO: 211-01221-00

DATE: MARCH 2021

ORIGINAL SCALE: 1:250

DESIGNED BY: DS

DRAWN BY: MH

CHECKED BY: SD

DISCIPLINE: CIVIL

TITLE: TERRACE FLATS SOUTH GRADING PLAN

SHEET NUMBER: C1.3

SHEET # 5 OF 10

ISSUE: RE-ISSUED FOR SPA

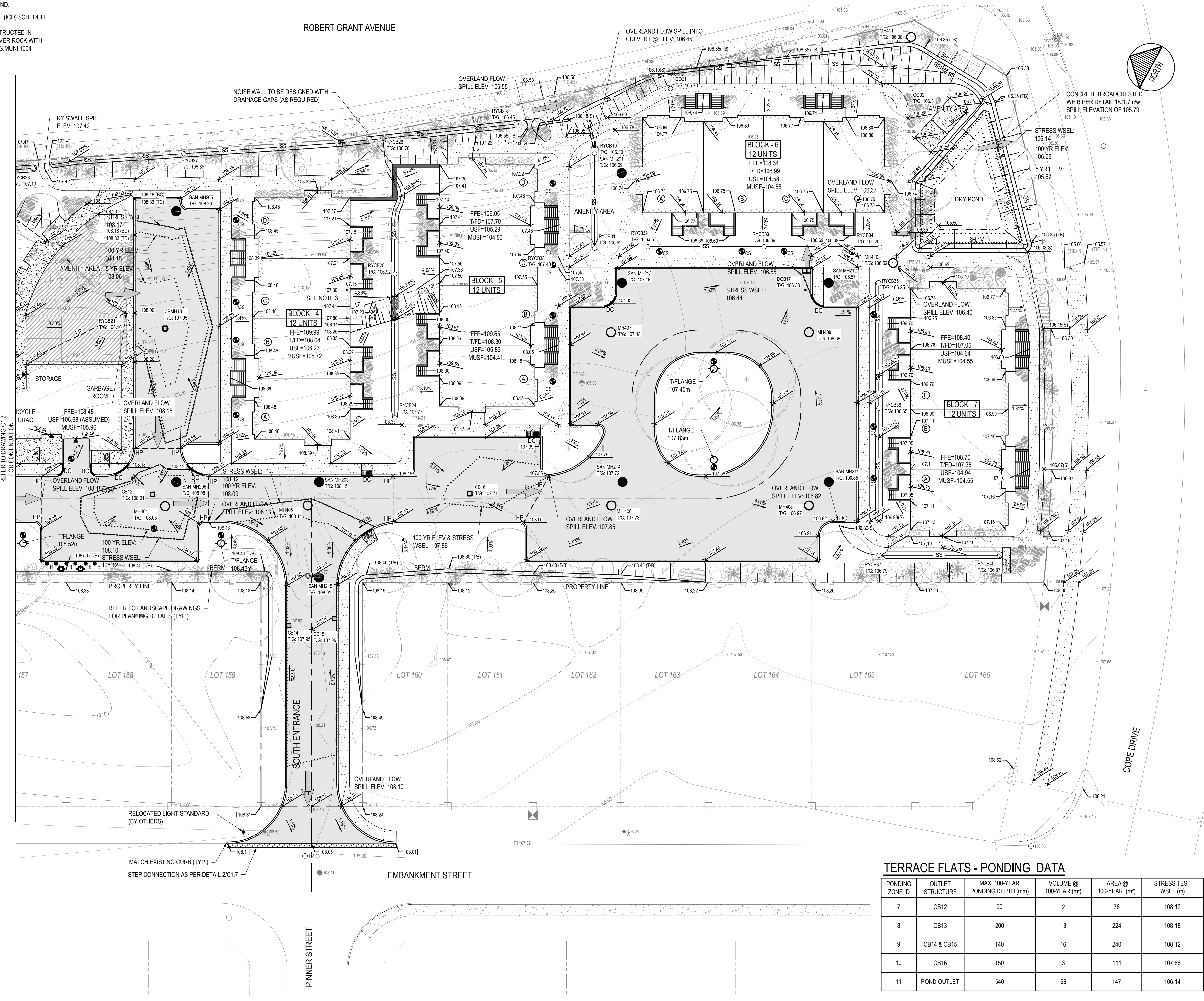
DATE OF: OCTOBER 15, 2021

REV # 1

- NOTES:
- REFER TO DRAWING C0.1 FOR NOTES AND FULL LEGEND.
 - REFER TO DRAWING C0.1 FOR INLET CONTROL DEVICE (ICD) SCHEDULE.
 - RIP-RAP PAD SHALL BE 1.0m x 3.0m x 0.3x DEEP, CONSTRUCTED IN ACCORDANCE WITH OPSD 810.010 (TYPE 'B') USING RIVER ROCK WITH GRADATION MATCHING 53mm CLEAR STONE PER OPSS.MUNI.1004

PROPOSED LEGEND:

- ALIGNMENT
- EDGE OF PAVEMENT
- CONCRETE BARRIER CURB
- W WATERMAIN
- WATER SERVICE
- ST STORM SEWER
- STORM SUBDRAIN
- SA SANITARY SEWER
- SANITARY SERVICE
- JUT JOINT UTILITY TRENCH
- GRADING TOP OF SLOPE
- GRADING BOTTOM OF SLOPE
- S SWALE
- SS SWALE c/w SUBDRAIN
- 100mm LINE PAINTING
- 1.8m HIGH PVC FENCE
- TERRACING
- STORM MANHOLE
- REAR YARD CATCH BASIN/ CLEAN OUT
- CATCH BASIN MANHOLE
- CATCH BASIN
- SANITARY MANHOLE
- FIRE HYDRANT
- WATERMAIN VALVE
- TWSI
- BUILDING ENTRANCE
- SIGN
- 105.00 GRADE ELEVATION
- 105.00 (TB) TOP OF BERM GRADE ELEVATIC
- FULL DEPTH ASPHALT
- PARTIAL DEPTH ASPHALT
- CONCRETE SIDEWALK
- ASPHALT SIDEWALK
- BUILDING
- RIVER STONE
- ➔ MAJOR FLOW ROUTING
- ➔ EMERGENCY OUTLET



TERRACE FLATS - PONDING DATA

PONDING ZONE ID	OUTLET STRUCTURE	MAX. 100-YEAR PONDING DEPTH (mm)	VOLUME @ 100-YEAR (m³)	AREA @ 100-YEAR (m²)	STRESS TEST WSEL (m)
7	CB12	90	2	76	108.12
8	CB13	200	13	224	108.18
9	CB14 & CB15	140	16	240	108.12
10	CB16	150	3	111	107.86
11	POND OUTLET	540	68	147	106.14

M:\2021\211-01221-00 - Richcraft Terrace Flats Site Plan\Drawings\01_Civil\01_Ponding\211-01221-00 GRADING.dwg Oct 15, 2021 12:08pm by (ruram)

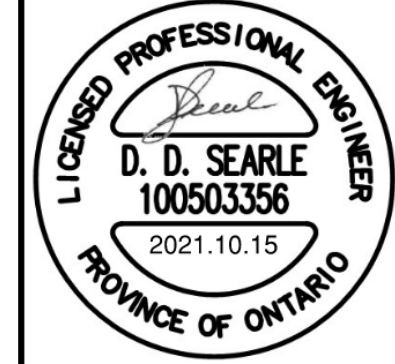


124 GARDINERS ROAD, SUITE 201
KINGSTON, ONTARIO
CANADA K7P 0G2
PHONE: 613-634-7373
WWW.WSP.COM

CONSULTANT:



SEAL:



CLIENT:

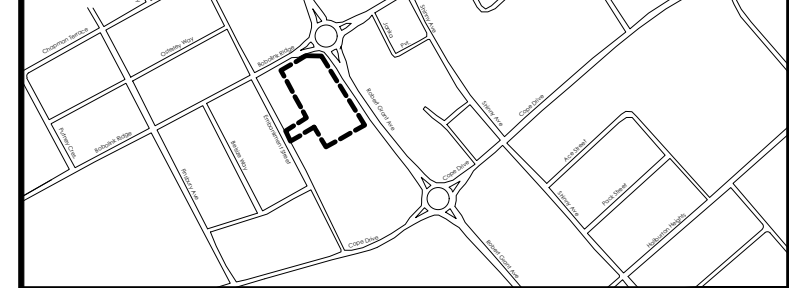


CLIENT REF. #

PROJECT:

TERRACE FLATS

KEY PLAN



DISCLAIMER: THIS DRAWING AND DESIGN IS COPYRIGHT PROTECTED WHICH SHALL NOT BE USED, REPRODUCED OR REISSUED WITHOUT WRITTEN PERMISSION BY WSP. THE CONTRACTOR SHALL CHECK AND VERIFY ALL DIMENSIONS AND UTILITY LOCATIONS AND REPORT ALL ERRORS AND OMISSIONS PRIOR TO COMMENCING WORK. THIS DRAWING IS NOT TO BE SCALED.

ISSUED FOR - REVISION

IS	RE	DATE	DESCRIPTION
2		2021-10-15	RE-ISSUED FOR SPA
1		2021-07-07	ISSUED FOR SPA

PROJECT NO:	DATE:
211-01221-00	MARCH 2021
ORIGINAL SCALE:	IF THIS BAR IS NOT 25mm LONG, ADJUST YOUR PLOTTING SCALE.
1:250	

DESIGNED BY: DS
DRAWN BY: MH
CHECKED BY: SD
DISCIPLINE: CIVIL

TITLE: TERRACE FLATS NORTH SERVICING PLAN

SHEET NUMBER: C1.4
SHEET # 6 OF 10

ISSUE: RE-ISSUED FOR SPA

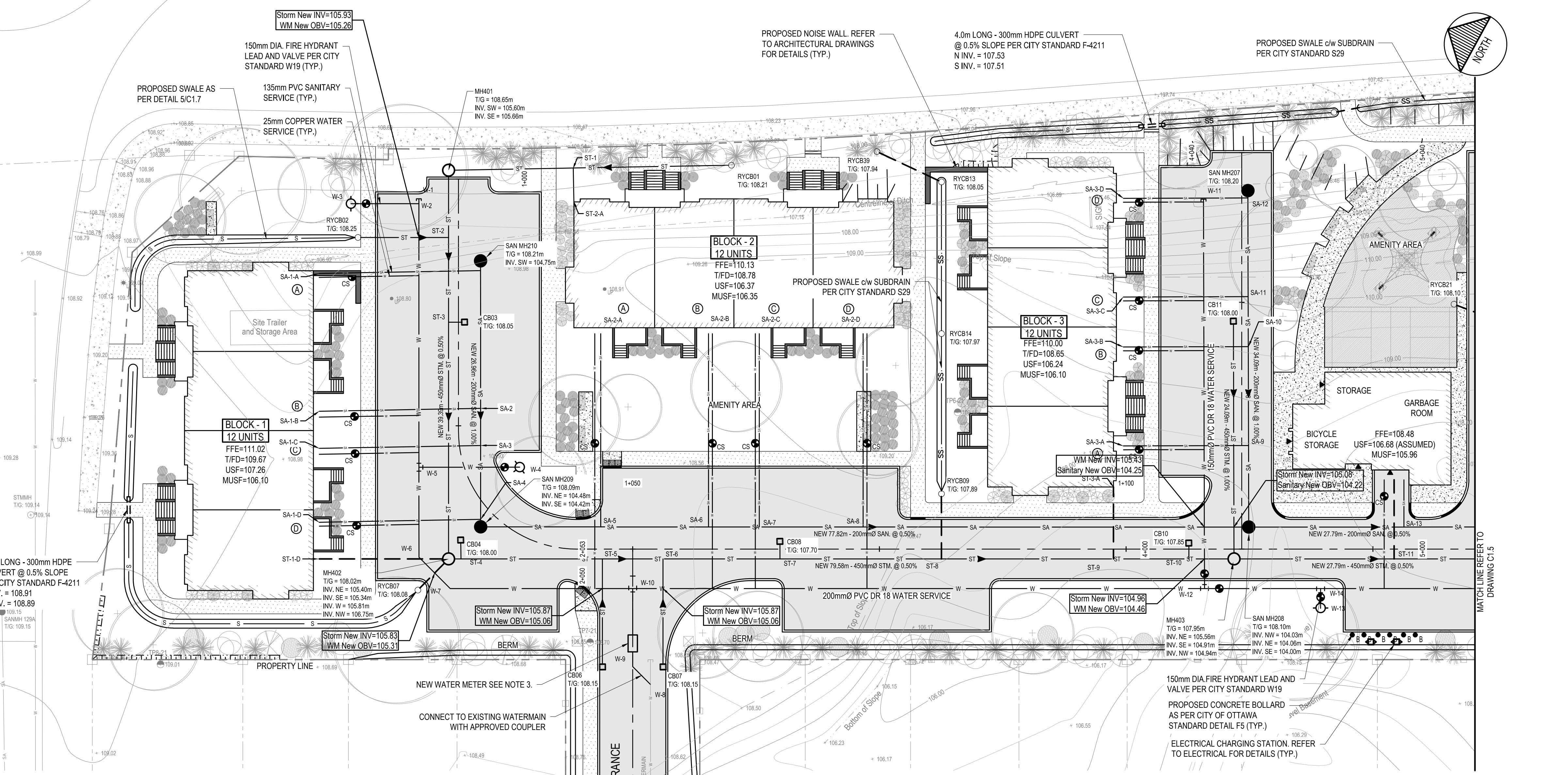
DATE OF: OCTOBER 15, 2021

REV # 1

- NOTES:
- REFER TO DRAWING C0.1 FOR NOTES AND FULL LEGEND.
 - ALL WATER SERVICES SHALL BE 50mmØ COPPER.
 - NEW WATER METER PER CITY OF OTTAWA STANDARD DETAIL W32 HOUSED IN A VALVE CHAMBER PER CITY STANDARD DETAIL W3. METER ASSEMBLY DIMENSIONS TO BE SPECIFIED BY THE CITY.

PROPOSED LEGEND:

- ALIGNMENT
- EDGE OF PAVEMENT
- CONCRETE BARRIER CURB
- W WATERMAIN
- WATER SERVICE
- ST STORM SEWER
- STORM SUBDRAIN
- SA SANITARY SEWER
- SANITARY SERVICE
- JUT JOINT UTILITY TRENCH
- GRADING TOP OF SLOPE
- GRADING BOTTOM OF SLOPE
- S SWALE
- SS SWALE c/w SUBDRAIN
- 100mm LINE PAINTING
- 1.8m HIGH PVC FENCE
- TERRACING
- STORM MANHOLE
- REAR YARD CATCH BASIN/ CLEAN OUT
- CATCH BASIN MANHOLE
- CATCH BASIN
- SANITARY MANHOLE
- FIRE HYDRANT
- WATERMAIN VALVE
- TWSI
- ▲ BUILDING ENTRANCE
- SIGN
- 105.00 GRADE ELEVATION
- 105.00 (TB) IBI DESIGN GRADE
- 105.00 (TB) TOP OF BERM GRADE ELEVATION
- FULL DEPTH ASPHALT
- PARTIAL DEPTH ASPHALT
- CONCRETE SIDEWALK
- ASPHALT SIDEWALK
- BUILDING



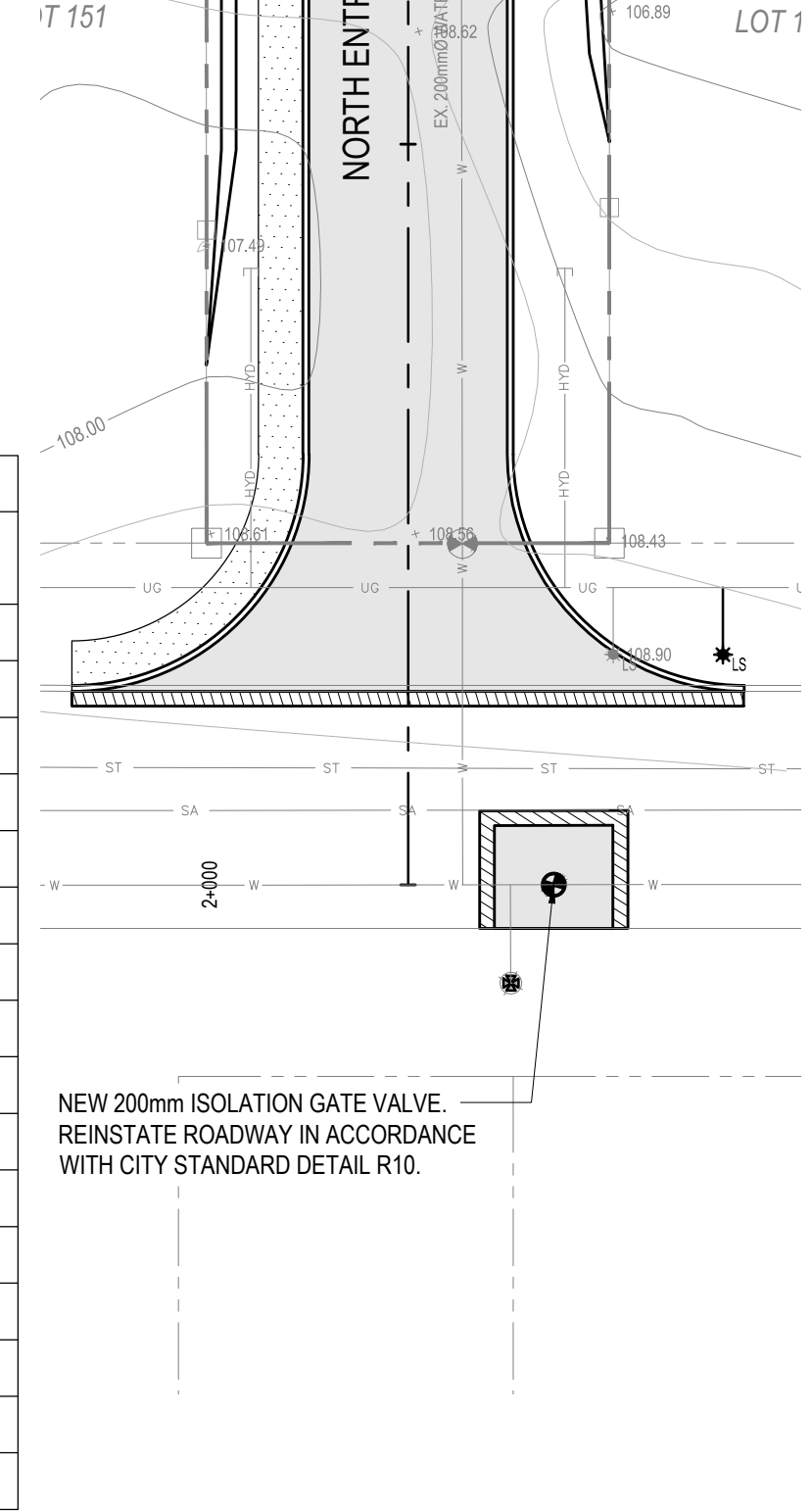
NUMBER	STATION	OFFSET (m)	TOP OF GRATE	LOW INVERT	STRUCTURE (OPSD)	GRATE (OPSD)	SUMP (m)
SAN MH207	4+036.3	+0.62	108.198	104.401	701.010	S24	0.00
SAN MH208	1+112.4	-2.23	108.096	103.999	701.010	S24	0.00
SAN MH209	1+034.9	+1.79	108.086	104.419	701.010	S24	0.00
SAN MH210	1+008.3	-2.24	108.212	104.750	701.010	S24	0.00

FROM	TO	INLET ELEV. (m)	OUTLET ELEV. (m)	SIZE	LENGTH	SLOPE	CITY STANDARD	MIN. COVER (m)
SA-1-A	SA-1	104.860	104.780	135 mm	16.3 m	0.49%	S6	3.26
SAN MH210	SAN MH209	104.750	104.480	200 mm	27.0 m	1.00%	S6	3.18
SA-1-B	SA-2	104.700	104.620	135 mm	16.3 m	0.49%	S6	3.40
SA-1-C	SA-3	104.685	104.610	135 mm	16.3 m	0.46%	S6	3.47
SA-1-D	SA-4	104.600	104.520	135 mm	16.4 m	0.49%	S6	3.38
SA-3-D	SA-12	104.566	104.440	135 mm	12.6 m	1.00%	S6	3.51
SA-2-A	SA-5	104.521	104.350	135 mm	19.6 m	0.87%	S6	3.70
SA-3-C	SA-11	104.496	104.370	135 mm	12.6 m	1.00%	S6	3.50
SA-2-B	SA-6	104.481	104.310	135 mm	19.6 m	0.87%	S6	3.40
SA-2-C	SA-7	104.451	104.280	135 mm	19.6 m	0.87%	S6	3.35
SA-3-B	SA-10	104.447	104.320	135 mm	12.7 m	1.00%	S6	3.54
SAN MH209	SAN MH208	104.419	104.030	200 mm	77.8 m	0.50%	S6	3.27
SA-2-D	SA-8	104.401	104.230	135 mm	19.6 m	0.87%	S6	3.40
SAN MH207	SAN MH208	104.401	104.060	200 mm	34.1 m	1.00%	S6	3.54
SA-3-A	SA-9	104.337	104.210	135 mm	12.7 m	1.00%	S6	3.72
SAN MH208	SAN MH206	103.999	103.860	200 mm	27.8 m	0.50%	S6	3.89

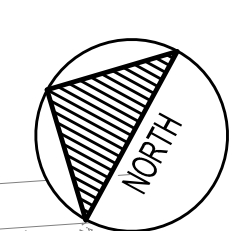
NUMBER	DESCRIPTION	STATION	OFFSET (m)	FINISHED GRADE	TOP OF WM
W-1	CAP	1+002.0	+4.01	108.46	106.06
W-2	200x150x200mm TEE	1+002.5	+4.01	108.45	106.05
W-3	FH & VB	1+002.5	+10.90	108.52	106.12
W-4	FIRE HYDRANT	1+032.3	-5.13	108.41	106.01
W-5	200x150x200mm TEE	1+028.2	+4.43	108.22	105.82
W-6	45° BEND	1+033.6	+8.51	108.07	105.67
W-7	45° BEND	1+036.2	+8.51	108.08	105.68
W-8	CONNECT TO EX.	2+039.0	+1.80	108.17	105.77
W-9	45° BEND	2+040.8	0.00	108.15	105.75
W-10	200x200x200mm TEE	1+050.0	+4.00	108.22	105.82
W-11	CAP	4+035.5	-3.88	108.19	105.79
W-12	200x150x200mm TEE	1+107.9	+4.00	108.09	105.69
W-13	FH & VB	1+119.7	+6.00	108.30	105.90
W-14	200x150x200mm TEE	1+119.7	+3.98	108.29	105.89

FROM	TO	INLET ELEV. (m)	OUTLET ELEV. (m)	SIZE	LENGTH	SLOPE	CITY STANDARD	MIN. COVER (m)
ST-1-D	MH402	107.010	106.748	250 mm	13.1 m	2.00%	S29	1.00
RYCB13	RYCB06	106.970	106.893	250 mm	23.0 m	2.04%	S29	1.01
RYCB14	RYCB09	106.891	106.810	250 mm	16.2 m	0.50%	S29	1.06
ST-2-A	ST-1	106.104	106.070	250 mm	3.4 m	0.99%	S29	2.20
RYCB02	ST-2	106.050	105.810	300 mm	9.2 m	2.61%	S6	1.89
CB07	ST-6	105.950	105.841	300 mm	10.9 m	1.00%	S6	1.89
CB06	ST-5	105.950	105.841	300 mm	10.9 m	1.00%	S6	1.89
RYCB07	MH402	105.850	105.806	250 mm	4.4 m	1.00%	S29	1.95
CB03	ST-3	105.850	105.800	300 mm	1.6 m	3.09%	S6	1.89
RYCB01	MH401	105.803	105.660	450 mm	28.7 m	0.50%	S6	1.95
CB04	ST-4	105.800	105.781	300 mm	1.9 m	1.00%	S6	1.89
CB11	MH403	105.800	105.559	450 mm	24.1 m	1.00%	S6	1.74
RYCB09	ST-8	105.690	105.250	300 mm	6.6 m	6.67%	S29	2.31
CB10	ST-10	105.650	105.634	300 mm	1.6 m	1.00%	S6	1.89
MH401	MH402	105.597	105.400	450 mm	39.4 m	0.50%	S6	2.11
CB08	ST-7	105.500	105.482	300 mm	1.8 m	1.00%	S6	1.89
MH402	MH403	105.340	104.940	450 mm	79.6 m	0.50%	S6	2.11
ST-3-A	ST-9	105.254	105.180	300 mm	7.3 m	1.01%	S29	2.44
ST	ST-11	105.100	105.020	300 mm	8.0 m	1.00%	S6	2.78
MH403	MH404	104.910	104.770	450 mm	27.8 m	0.50%	S6	2.58

NUMBER	STATION	OFFSET (m)	TOP OF GRATE	LOW INVERT	STRUCTURE (OPSD)	GRATE (OPSD)	SUMP (m)
CB03	1+014.5	-0.62	108.050	105.850	705.010	S19.1	0.60
CB04	1+034.6	+4.17	108.000	105.800	705.010	S19.1	0.60
CB06	2+040.8	-3.06	108.152	105.950	705.010	S19.1	0.60
CB07	2+040.8	+3.08	108.152	105.950	705.010	S19.1	0.60
CB08	1+064.9	-0.78	107.700	105.500	705.010	S19.1	0.60
CB10	1+106.3	-0.61	107.850	105.650	705.010	S19.1	0.60
CB11	4+023.1	-0.85	108.000	105.800	705.010	S19.1	0.60
MH401	1+263.9	+171.59	108.650	105.597	701.010	S24.1	0.30
MH402	1+034.9	+6.38	108.020	105.340	701.010	S24.1	0.30
MH403	1+119.9	+1.00	107.954	104.910	701.010	S24.1	0.30
RYCB01	1+060.0	-38.90	108.210	105.803	S31	S31	0.00
RYCB02	1+005.9	+10.19	108.250	106.050	S30	S30	0.00
RYCB07	1+034.9	+10.82	108.085	105.850	S30	S30	0.00
RYCB09	1+081.3	-5.60	107.890	105.690	S30	S30	0.00
RYCB13	1+081.3	-37.21	108.050	106.970	S30	S30	0.00
RYCB14	1+081.3	-21.83	107.970	106.891	S30	S30	0.00
RYCB39	1+074.7	-40.28	107.940	107.006	S30	S30	0.00



NEW 200mm ISOLATION GATE VALVE REINSTATE ROADWAY IN ACCORDANCE WITH CITY STANDARD DETAIL R10.



MATCH LINE REFER TO DRAWING C1.5

150mm DIA. FIRE HYDRANT LEAD AND VALVE PER CITY STANDARD W19

PROPOSED CONCRETE BOLLARD AS PER CITY OF OTTAWA STANDARD DETAIL F5 (TYP.)

ELECTRICAL CHARGING STATION. REFER TO ELECTRICAL FOR DETAILS (TYP.)

4.0m LONG - 300mm HDPE CULVERT @ 0.5% SLOPE PER CITY STANDARD F-4211 N INV. = 107.53 S INV. = 107.51

PROPOSED SWALE c/w SUBDRAIN PER CITY STANDARD S29

PROPOSED NOISE WALL REFER TO ARCHITECTURAL DRAWINGS FOR DETAILS (TYP.)

150mm DIA. FIRE HYDRANT LEAD AND VALVE PER CITY STANDARD W19

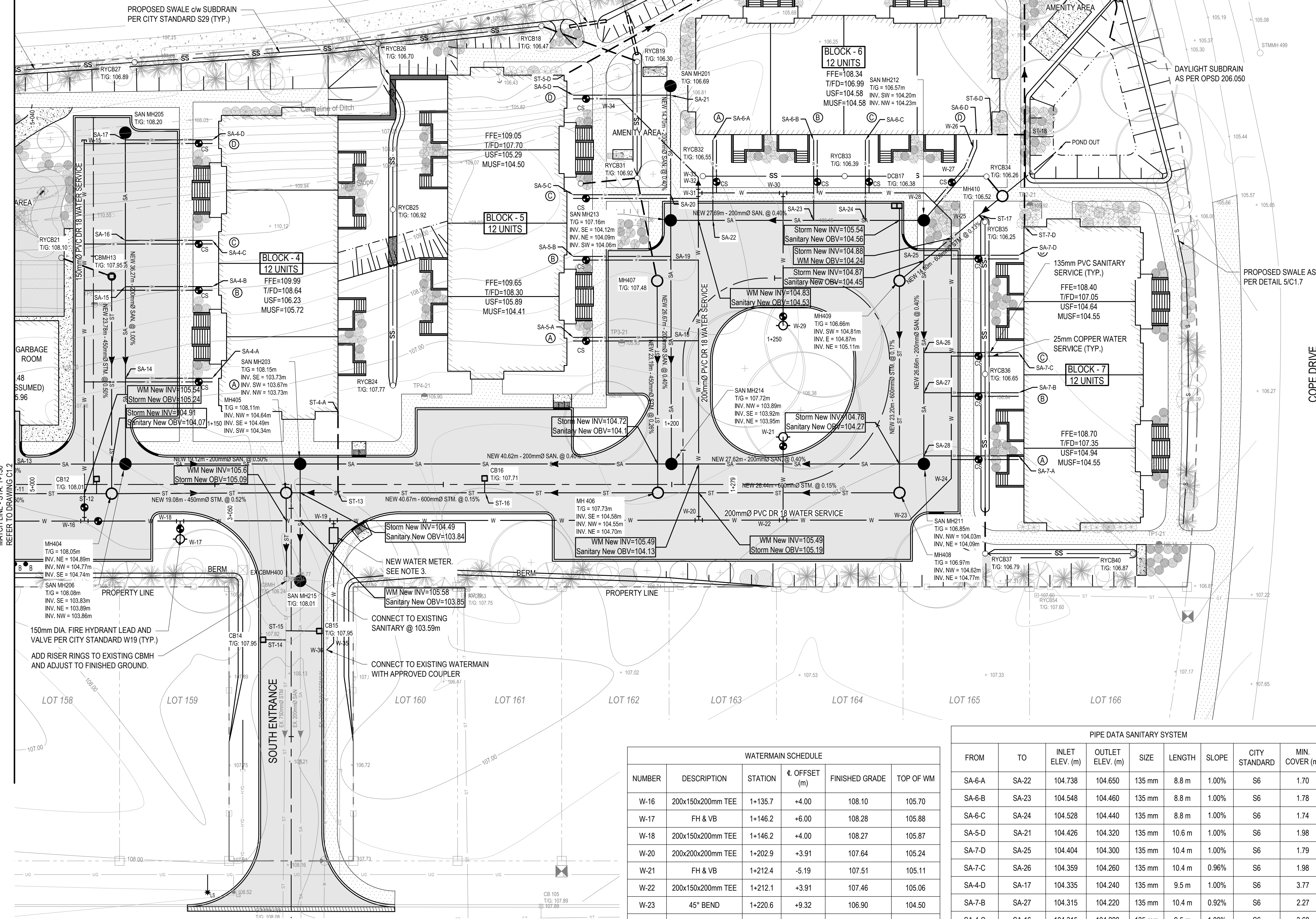
- NOTES:**
- REFER TO DRAWING C0.1 FOR NOTES AND FULL LEGEND.
 - ALL WATER SERVICES SHALL BE 50mmØ COPPER.
 - NEW WATER METER PER CITY OF OTTAWA STANDARD DETAIL W32 HOUSED IN A VALVE CHAMBER PER CITY STANDARD DETAIL W3. METER ASSEMBLY DIMENSIONS TO BE SPECIFIED BY THE CITY. THE INTERIOR BUILDING PLUMBING SHALL INCLUDE PRESSURE REDUCING VALVES ON ALL WATER SERVICES FOR BLOCKS 5, 6 AND 7.

ROBERT GRANT AVENUE

4.0m LONG - 300mm HDPE CURVERT @ 0.5% SLOPE PER CITY STANDARD F-4211
E INV. = 106.15
W INV. = 106.45

4.0m LONG - 300mm HDPE CURVERT @ 0.5% SLOPE PER CITY STANDARD F-4211
N INV. = 106.20
S INV. = 106.18

PROPOSED NOISE WALL REFER TO ARCHITECTURAL DRAWINGS FOR DETAILS (TYP.)
PROPOSED STWALE c/w SUBDRAIN PER CITY STANDARD S29 (TYP.)



NUMBER	STATION	± OFFSET (m)	TOP OF GRATE	LOW INVERT	STRUCTURE (OPSD)	GRATE (OPSD)	SUMP (m)
SAN MH201	1+254.0	+22.76	106.693	104.149	701.010	S24	0.00
SAN MH203	1+159.3	-2.25	108.145	103.671	701.010	S24	0.00
SAN MH205	5+038.5	+3.49	108.202	104.253	701.010	S24	0.00
SAN MH206	1+140.2	-2.24	108.081	103.826	701.010	S24	0.00
SAN MH211	1+224.0	+6.52	106.855	104.030	701.010	S24	0.00
SAN MH212	1+240.2	+10.93	106.566	104.197	701.010	S24	0.00
SAN MH213	1+256.4	+9.48	107.156	104.057	701.010	S24	0.00
SAN MH214	1+276.5	+1.27	107.715	103.892	701.010	S24	0.00
SAN MH215	3+042.0	+0.98	108.006	103.590	701.010	S24	0.00

NUMBER	DESCRIPTION	STATION	± OFFSET (m)	FINISHED GRADE	TOP OF WM
W-16	200x150x200mm TEE	1+135.7	+4.00	108.10	105.70
W-17	FH & VB	1+146.2	+6.00	108.28	105.88
W-18	200x150x200mm TEE	1+146.2	+4.00	108.27	105.87
W-20	200x200x200mm TEE	1+202.9	+3.91	107.64	105.24
W-21	FH & VB	1+212.4	-5.19	107.51	105.11
W-22	200x150x200mm TEE	1+212.1	+3.91	107.46	105.06
W-23	45° BEND	1+220.6	+9.32	106.90	104.50
W-24	45° BEND	1+224.1	+9.92	106.88	104.48
W-25	45° BEND	1+239.2	+13.01	106.58	104.18
W-26	22.5° BEND	1+240.5	+20.56	106.72	103.57
W-27	22.5° BEND	1+240.3	+18.18	106.51	104.11
W-28	45° BEND	1+240.9	+13.35	106.51	104.11
W-29	FIRE HYDRANT	1+249.1	-5.20	107.18	104.78
W-30	200x150x200mm TEE	1+249.1	+9.32	106.81	104.14
W-31	200x25x200mm TEE	1+254.4	+10.73	107.06	104.66
W-32	REDUCER	1+254.2	+11.99	106.73	104.33
W-33	45° BEND	1+254.2	+12.34	106.65	104.25
W-34	45° BEND	1+255.6	+23.74	106.86	104.46
W-35	45° BEND	1+163.0	+17.36	108.13	105.73
W-36	CONNECT TO EX.	1+162.3	+18.11	108.12	105.72

FROM	TO	INLET ELEV. (m)	OUTLET ELEV. (m)	SIZE	LENGTH	SLOPE	CITY STANDARD	MIN. COVER (m)
SA-6-A	SA-22	104.738	104.650	135 mm	8.8 m	1.00%	S6	1.70
SA-6-B	SA-23	104.548	104.460	135 mm	8.8 m	1.00%	S6	1.78
SA-6-C	SA-24	104.528	104.440	135 mm	8.8 m	1.00%	S6	1.74
SA-5-D	SA-21	104.426	104.320	135 mm	10.6 m	1.00%	S6	1.98
SA-7-D	SA-25	104.404	104.300	135 mm	10.4 m	1.00%	S6	1.79
SA-7-C	SA-26	104.359	104.260	135 mm	10.4 m	0.96%	S6	1.98
SA-4-D	SA-17	104.335	104.240	135 mm	9.5 m	1.00%	S6	3.77
SA-7-B	SA-27	104.315	104.220	135 mm	10.4 m	0.92%	S6	2.27
SA-4-C	SA-16	104.315	104.220	135 mm	9.5 m	1.00%	S6	3.68
SA-5-C	SA-20	104.306	104.200	135 mm	10.6 m	1.00%	S6	2.81
SA-7-A	SA-28	104.298	104.200	135 mm	10.4 m	0.94%	S6	2.40
SA-4-B	SA-15	104.265	104.170	135 mm	9.5 m	1.00%	S6	3.70
SAN MH205	SAN MH206	104.253	103.890	200 mm	36.3 m	1.00%	S6	3.70
SA-5-B	SA-19	104.217	104.110	135 mm	10.7 m	1.00%	S6	3.07
SA-5-A	SA-18	104.177	104.070	135 mm	10.7 m	1.00%	S6	3.34
SA-4-A	SA-14	104.165	104.070	135 mm	9.5 m	1.00%	S6	3.91
SAN MH201	SAN MH213	104.149	104.090	200 mm	14.7 m	0.40%	S6	2.34
SAN MH213	SAN MH214	104.057	103.950	200 mm	26.7 m	0.40%	S6	2.89
SAN MH214	SAN MH203	103.892	103.730	200 mm	40.6 m	0.40%	S6	3.62
SAN MH206	SAN MH203	103.826	103.730	200 mm	19.1 m	0.50%	S6	4.05
SAN MH203	SAN MH215	103.671	103.620	200 mm	12.8 m	0.40%	S6	4.18

FROM	TO	INLET ELEV. (m)	OUTLET ELEV. (m)	SIZE	LENGTH	SLOPE	CITY STANDARD	MIN. COVER (m)
RYCB24	RYCB25	106.093	105.900	250 mm	19.3 m	1.00%	S29	0.76
RYCB21	CBMH13	105.980	105.921	250 mm	5.9 m	1.00%	S29	1.77
RYCB27	RYCB26	105.927	105.660	250 mm	26.7 m	1.00%	S29	0.70
RYCB25	RYCB26	105.872	105.690	250 mm	18.2 m	1.00%	S29	0.75
CB12	ST-12	105.810	105.794	300 mm	1.6 m	1.00%	S6	1.89
CB15	ST-15	105.750	105.713	300 mm	3.7 m	1.00%	S6	1.89
CB14	ST-14	105.750	105.725	300 mm	2.5 m	1.00%	S6	1.89
RYCB26	RYCB18	105.630	105.450	250 mm	18.0 m	1.00%	S29	0.76
CB16	ST-16	105.510	105.494	300 mm	1.6 m	1.00%	S6	1.89
POND OUT	MH410	105.500	105.189	300 mm	8.0 m	3.90%	S6	-0.31
RYCB18	RYCB19	105.392	105.280	250 mm	11.2 m	1.00%	S29	0.76
RYCB32	RYCB33	105.345	105.190	250 mm	15.5 m	1.00%	S29	0.95
RYCB36	RYCB35	105.306	105.140	250 mm	16.6 m	1.00%	S29	0.85
RYCB19	RYCB31	105.215	105.020	250 mm	12.7 m	1.53%	S29	0.83
DCB17	MH409	105.170	105.110	300 mm	8.2 m	0.73%	S6	0.92
RYCB33	RYCB34	105.155	105.000	250 mm	15.5 m	1.00%	S29	0.98
RYCB35	ST-17	105.110	105.100	250 mm	1.0 m	1.00%	S29	0.88
CBMH13	MH404	105.010	104.890	450 mm	23.8 m	0.50%	S6	2.48
RYCB34	MH410	104.978	104.950	250 mm	2.8 m	1.00%	S29	1.02
RYCB31	MH407	104.960	104.910	250 mm	11.5 m	0.44%	S29	1.70
MH410	MH409	104.889	104.870	600 mm	14.6 m	0.13%	S6	0.79
MH409	MH408	104.810	104.770	600 mm	23.2 m	0.17%	S6	1.14
ST-4-A	ST-13	104.790	104.700	300 mm	8.9 m	1.01%	S29	3.10
MH407	MH406	104.760	104.700	450 mm	23.2 m	0.26%	S6	2.25
MH404	MH405	104.740	104.640	450 mm	19.1 m	0.52%	S6	2.85
RYCB37	RYCB36	104.725	105.340	250 mm	19.7 m	-3.13%	S29	1.05
ST-5-D	CO01	104.708	104.500	250 mm	20.8 m	1.00%	S29	1.72
MH408	MH406	104.620	104.580	600 mm	26.4 m	0.15%	S6	1.64
MH406	MH405	104.550	104.490	600 mm	40.7 m	0.15%	S6	2.47
CO01	CO02	104.472	104.150	250 mm	32.2 m	1.00%	S29	1.78
ST-7-D	CO02	104.340	104.120	250 mm	26.7 m	0.82%	S29	1.80
MH405	EX CBMH400	104.340	104.330	750 mm	9.4 m	0.11%	S6	2.80
ST-6-D	ST-18	104.300	104.260	250 mm	3.6 m	1.12%	S29	1.83
CO02	MH411	104.090	104.020	250 mm	6.9 m	1.01%	S29	1.82
RYCB40	RYCB37	103.632	103.416	250 mm	16.2 m	1.34%	S29	2.98

NUMBER	STATION	± OFFSET (m)	TOP OF GRATE	LOW INVERT	STRUCTURE (OPSD)	GRATE (OPSD)	SUMP (m)
CB12	1+137.1	-0.60	108.010	105.810	705.010	S19.1	0.60
CB14	3+035.6	-3.06	107.950	105.750	705.010	S19.1	0.60
CB15	3+036.6	+3.08	107.950	105.750	705.010	S19.1	0.60
CB16	1+179.5	-0.67	107.710	105.510	705.010	S19.1	0.60
CBMH13	5+022.8	+1.99	107.950	105.010	701.010	S19.1	0.60
CO01	1+251.8	+32.51	106.700	104.472	S30	S30	0.00
CO02	1+241.7	+38.67	106.311	104.090	S30	S30	0.00
DCB17	1+241.6	+10.69	106.380	105.170	705.020	S19.1	0.60
MH406	1+198.5	+0.90	107.729	104.550	701.011	S24.1	0.30
MH404	1+138.7	+1.00	108.051	104.740	701.010	S24.1	0.30
MH405	1+157.8	+0.90	108.108	104.340	701.012	S24.1	0.30
MH407	1+259.4	+5.68	107.476	104.760	701.010	S24.1	0.30
MH408	1+221.3	+6.37	106.966	104.620	701.011	S24.1	0.30
MH409	1+238.7	+4.31	106.657	104.810	701.011	S24.1	0.30
MH410	1+238.6	+18.91	106.518	104.889	701.010	S24.1	0.30
MH411	1+242.3	+44.78	106.081	103.960	701.010	S24.1	0.30
RYCB18	1+256.3	+35.04	106.470	105.392	S30	S30	0.00
RYCB19	1+254.7	+26.56	106.300	105.215	S30	S30	0.00
RYCB21	5+024.8	-3.51	108.100	105.980	S31	S31	0.00
RYCB24	1+169.5	-10.84	107.770	106.093	S31	S31	0.00
RYCB25	1+169.5	-30.10	106.920	105.872	S30	S30	0.00
RYCB26	1+259.0	+45.73	106.696	105.630	S30	S30	0.00
RYCB27	1+141.2	-46.22	106.889	105.927	S30	S30	0.00
RYCB31	1+256.5	+15.38	106.920	104.960	S30	S30	0.00
RYCB32	1+254.0	+12.28	106.550	105.345	S31	S31	0.00
RYCB33	1+244.6	+11.56	106.395	105.155	S30	S30	0.00
RYCB34	1+239.5	+19.07	106.257	104.978	S30	S30	0.00
RYCB35	1+238.2	+15.63	106.250	105.110	S30	S30	0.00
RYCB36	1+230.8	+10.45	106.650	105.306	S30	S30	0.00
RYCB37	1+222.1	+17.78	106.790	104.725	S30	S30	0.00
RYCB40	1+225.1	+31.30	106.871	103.632	S31	S31	0.00

WSP
1224 GARDINERS ROAD, SUITE 201
KINGSTON, ONTARIO
CANADA K7P 0G2
PHONE: 613-634-7373
WWW.WSP.COM

CONSULTANT:
M. David Blakely
Architect Inc.
2303 Prince of Wales Dr., Suite 101
Ottawa, Ontario, K2E 6Z9
Phone: (613) 226-8811, Fax: (613) 226-7942

SEAL: **LICENCED PROFESSIONAL ENGINEER**
D. D. SEARLE 100503356
2021.10.15
PROVINCE OF ONTARIO

SEAL: **LICENCED PROFESSIONAL ENGINEER**
S. P. DAVIDSON 100133944
2021.10.15
PROVINCE OF ONTARIO

CLIENT:
RICH CRAFT
Group Of Companies

CLIENT REF. #
PROJECT:
TERRACE FLATS

KEY PLAN

DISCLAIMER:
THIS DRAWING AND DESIGN IS COPYRIGHT PROTECTED WHICH SHALL NOT BE USED, REPRODUCED OR REVISED WITHOUT WRITTEN PERMISSION BY WSP. THE CONTRACTOR SHALL CHECK AND VERIFY ALL DIMENSIONS AND UTILITY LOCATIONS AND REPORT ALL ERRORS AND OMISSIONS PRIOR TO COMMENCING WORK. THIS DRAWING IS NOT TO BE SCALED.

ISSUED FOR - REVISION

NO.	DATE	DESCRIPTION
2	2021-10-15	RE-ISSUED FOR SPA
1	2021-07-07	ISSUED FOR SPA

PROJECT NO: 211-01221-00
DATE: MARCH 2021

ORIGINAL SCALE: 1:250
DESIGNED BY: DS
DRAWN BY: MH
CHECKED BY: SH
DISCIPLINE: CIVIL

TITLE:
TERRACE FLATS SOUTH SERVICING PLAN

SHEET NUMBER: **C1.5**
7 OF 10

ISSUE: **RE-ISSUED FOR SPA**

DATE OF: OCTOBER 15, 2021

1

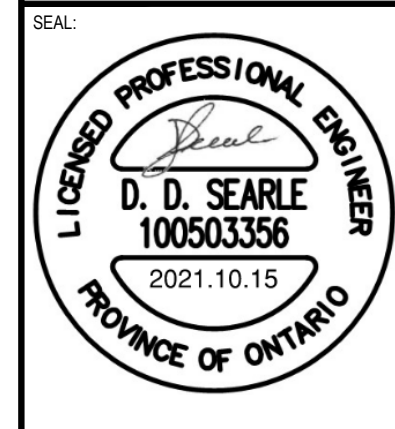


1224 GARDINERS ROAD, SUITE 201
KINGSTON, ONTARIO
CANADA K7P 0G2
PHONE: 613-634-7373
WWW.WSP.COM

CONSULTANT:



SEAL:



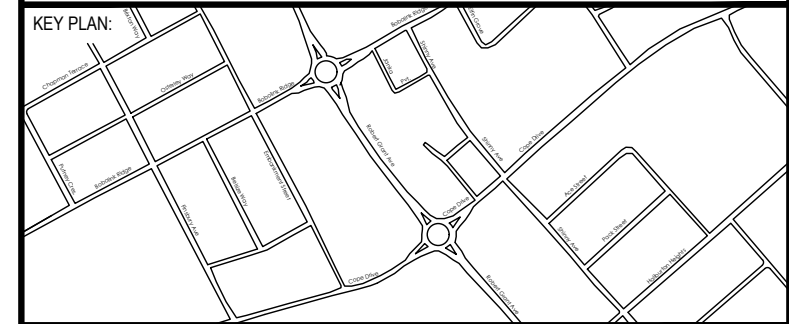
CLIENT:



CLIENT REF. #

PROJECT:

TERRACE FLATS



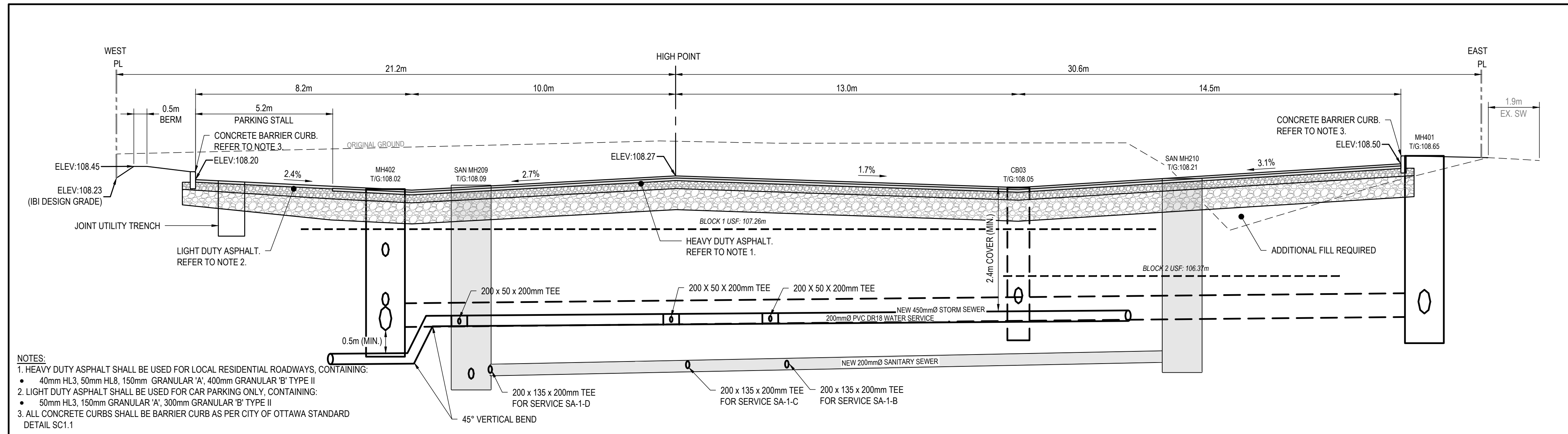
DISCLAIMER: THIS DRAWING AND DESIGN IS COPYRIGHT PROTECTED WHICH SHALL NOT BE USED, REPRODUCED OR RELEASED WITHOUT WRITTEN PERMISSION BY WSP. THE CONTRACTOR SHALL CHECK AND VERIFY ALL DIMENSIONS AND UTILITY LOCATIONS AND REPORT ALL ERRORS AND OMISSIONS PRIOR TO COMMENCING WORK. THIS DRAWING IS NOT TO BE SCALED.

ISSUED FOR - REVISION

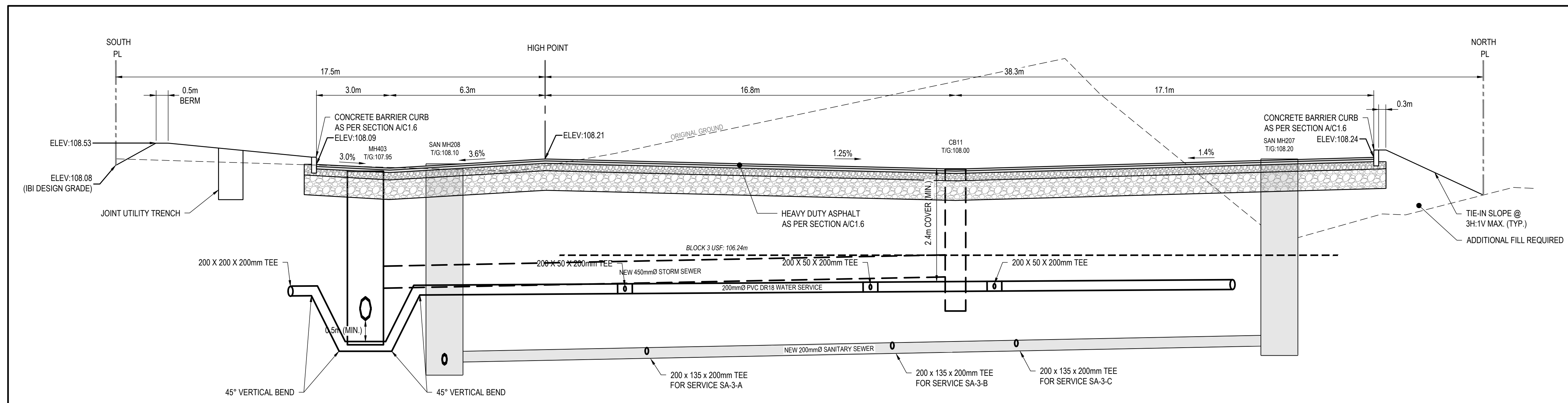
NO.	DATE	DESCRIPTION
2	2021-10-15	RE-ISSUED FOR SPA
1	2021-07-07	ISSUED FOR SPA

PROJECT NO:	211-01221-00	DATE:	MARCH 2021
ORIGINAL SCALE:	AS SHOWN	IF THIS BAR IS NOT 25mm LONG, ADJUST YOUR PLOTTING SCALE.	
DESIGNED BY:	DS		
DRAWN BY:	MH		
CHECKED BY:	SD		

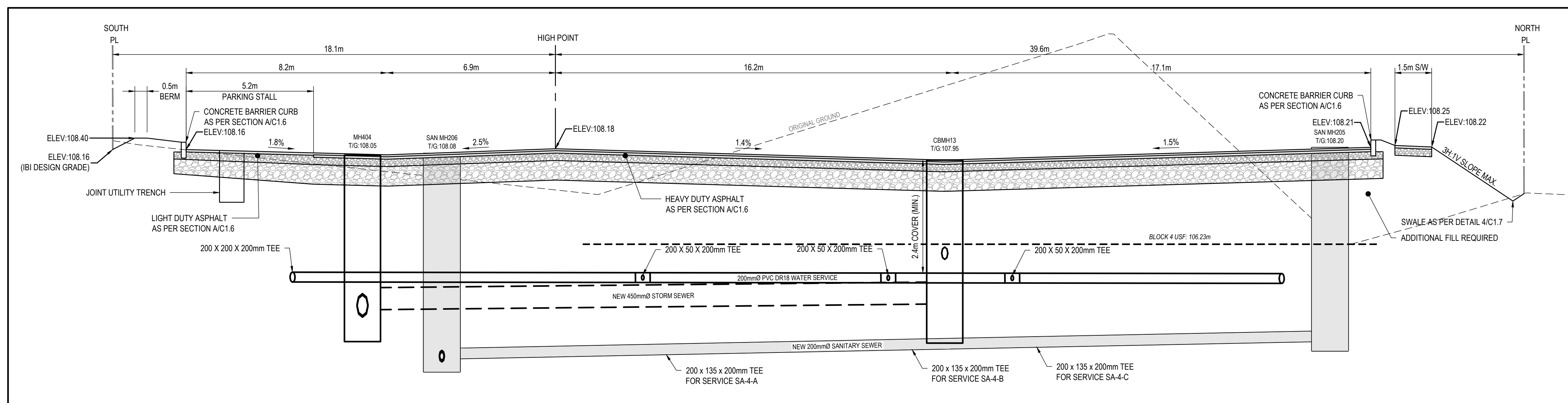
DISCIPLINE:	CIVIL
TITLE:	TERRACE FLATS DETAILS & SECTIONS I
SHEET NUMBER:	C1.6
SHEET #:	8 OF 10
ISSUE:	RE-ISSUED FOR SPA
DATE OF:	OCTOBER 15, 2021
REV #:	1



A SECTION A
C1.6 SCALE: H 1:100 V 1:50

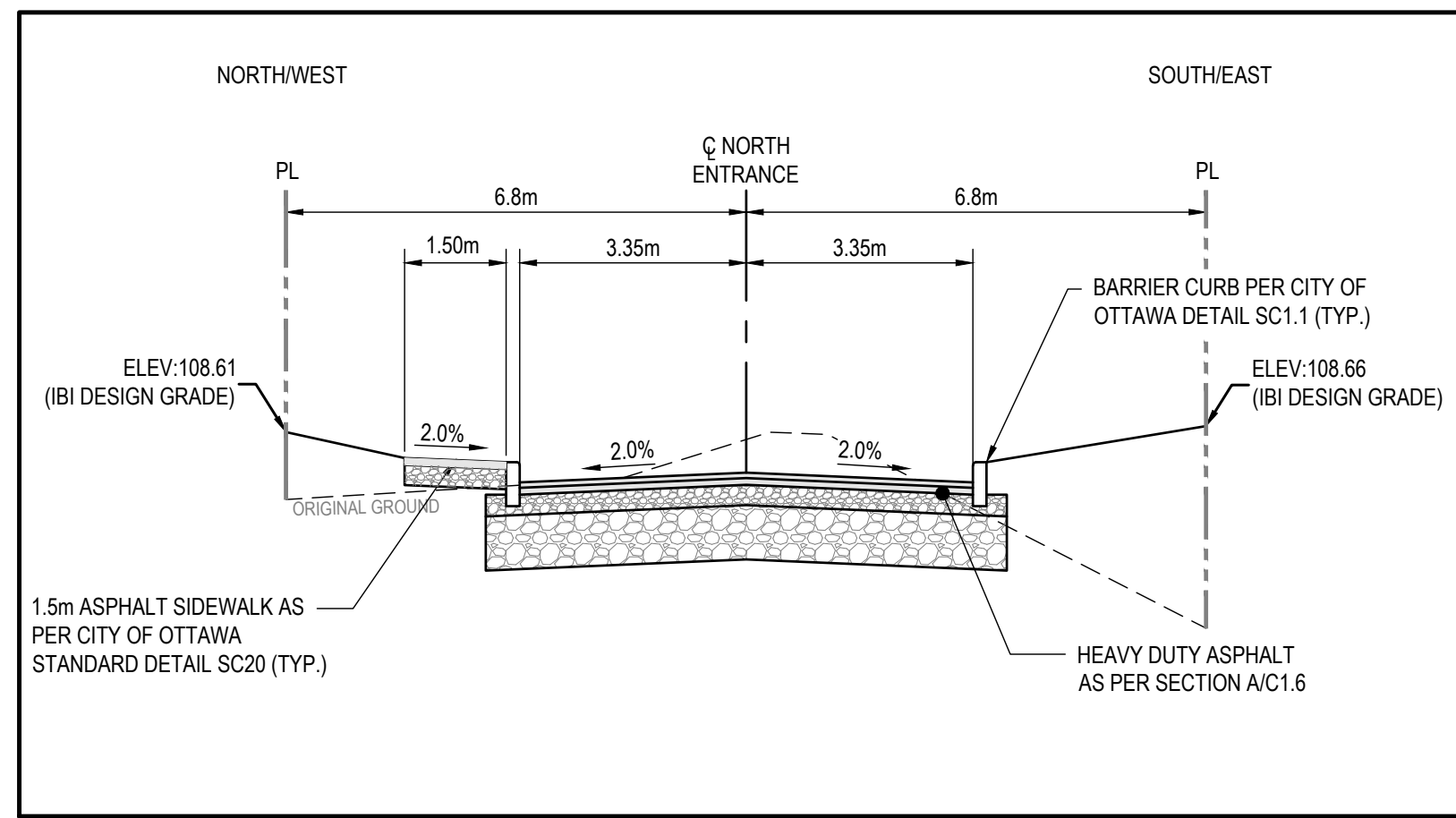


B SECTION B
C1.6 SCALE: H 1:100 V 1:50

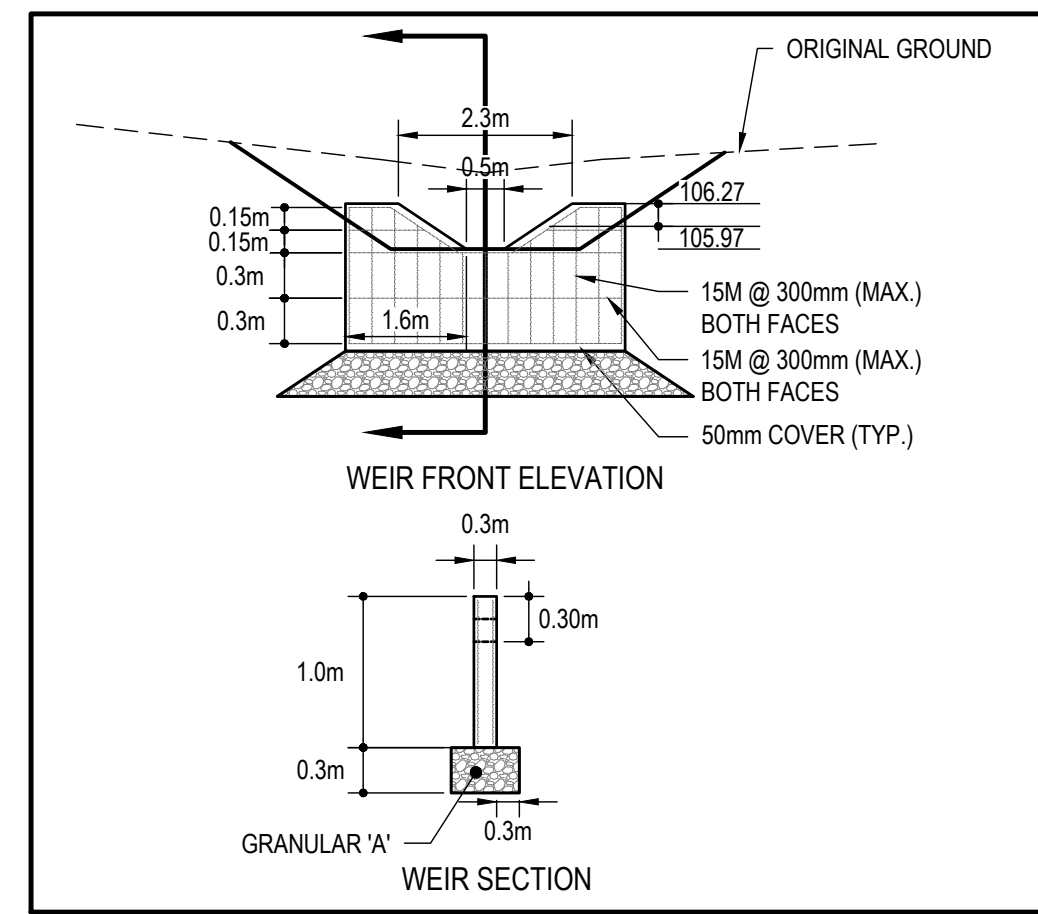


C SECTION C
C1.6 SCALE: H 1:100 V 1:50

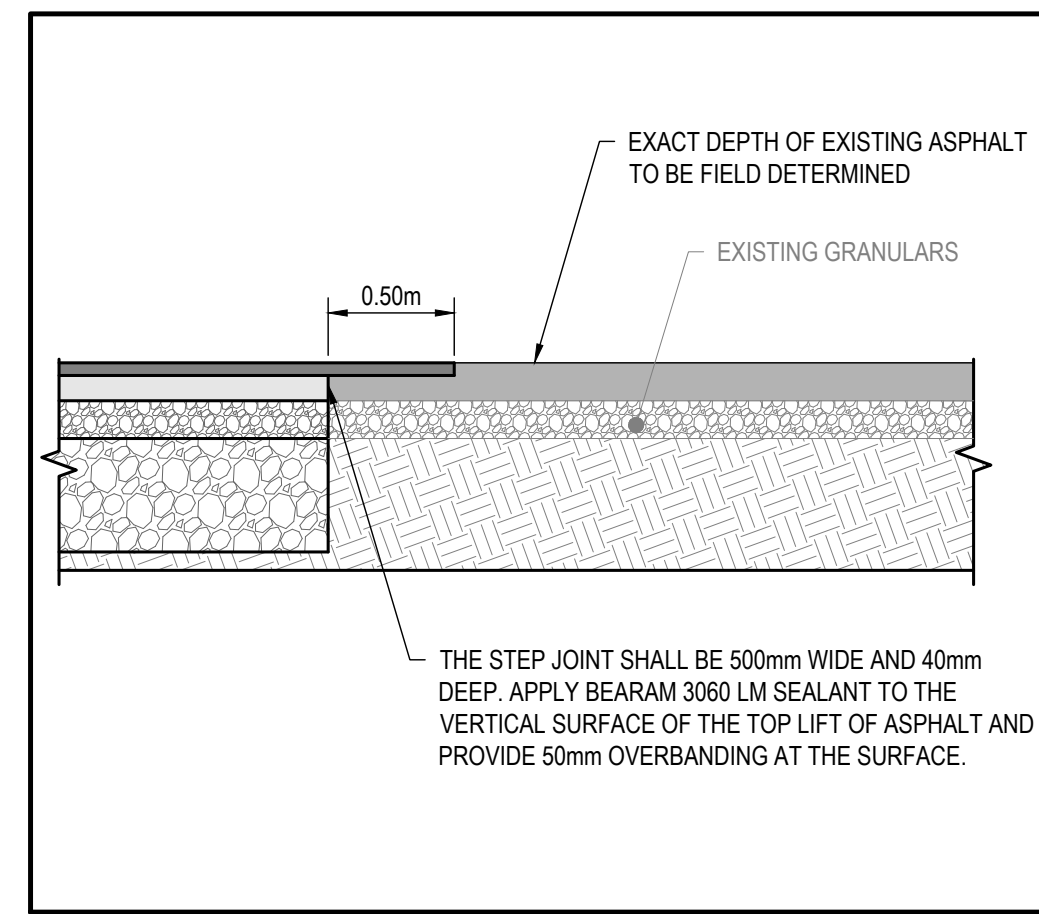
M:\2021\211-01221-00 - Richcraft Terrace Flats Site Plan\Drawings\01_Civil\01_Produced\211-01221-00 DETAILS.dwg Oct 15, 2021 1:03:58 PM (Number) CITY PLAN NO. 18498



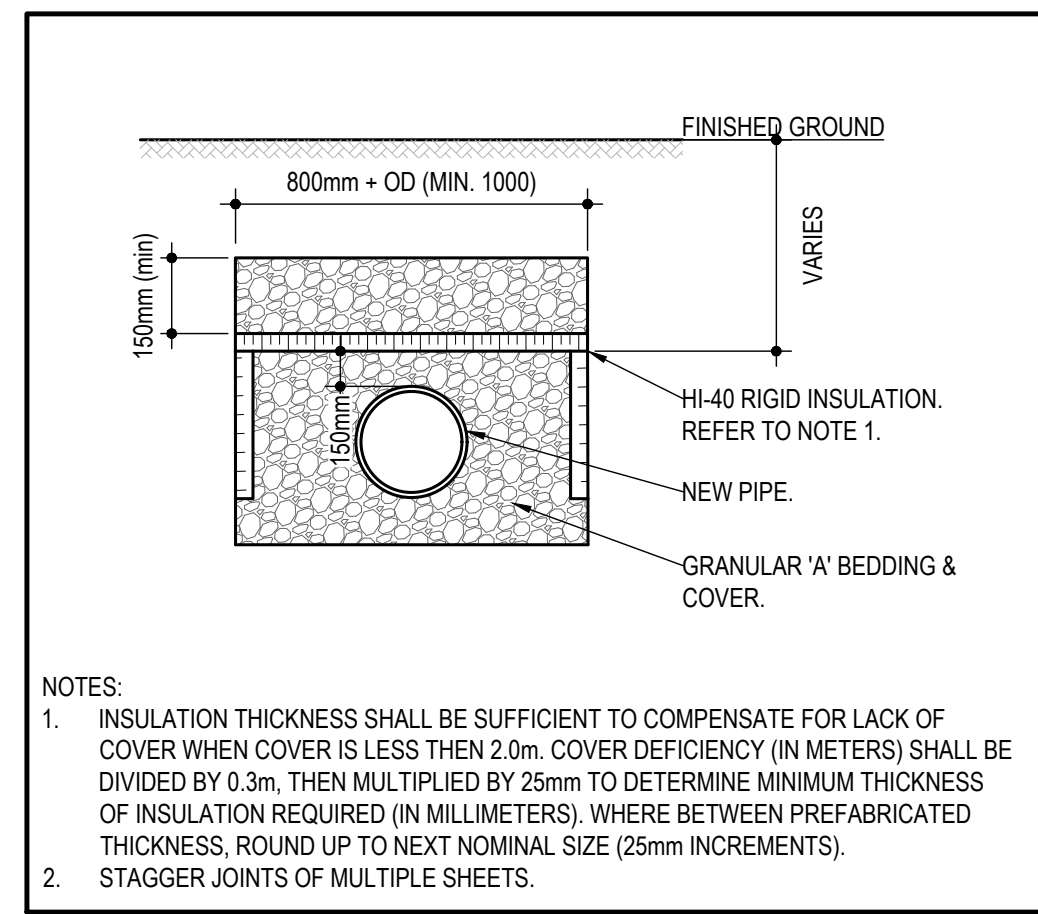
D SECTION D
SCALE: H 1:100 V 1:50



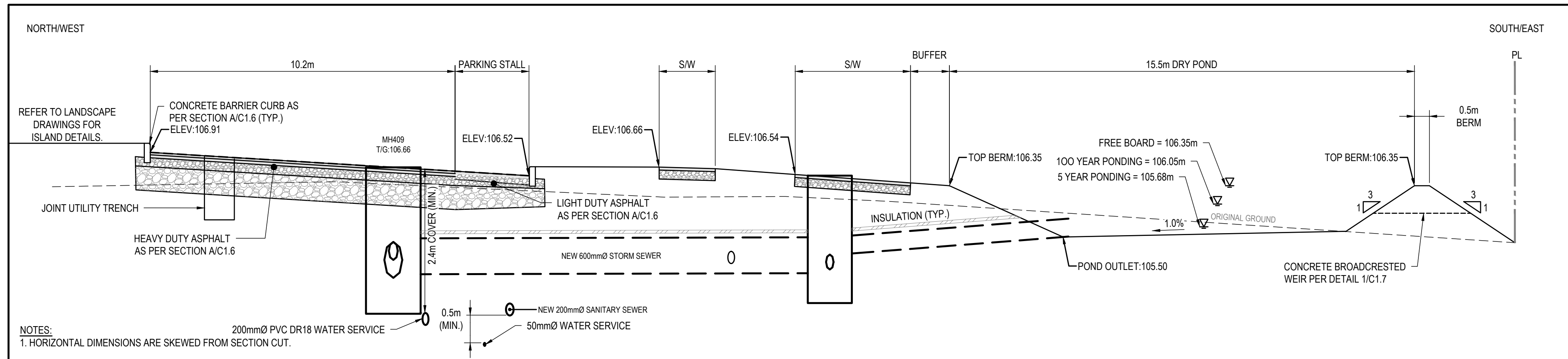
1 CONCRETE WEIR DETAIL
SCALE: H 1:100 V 1:50



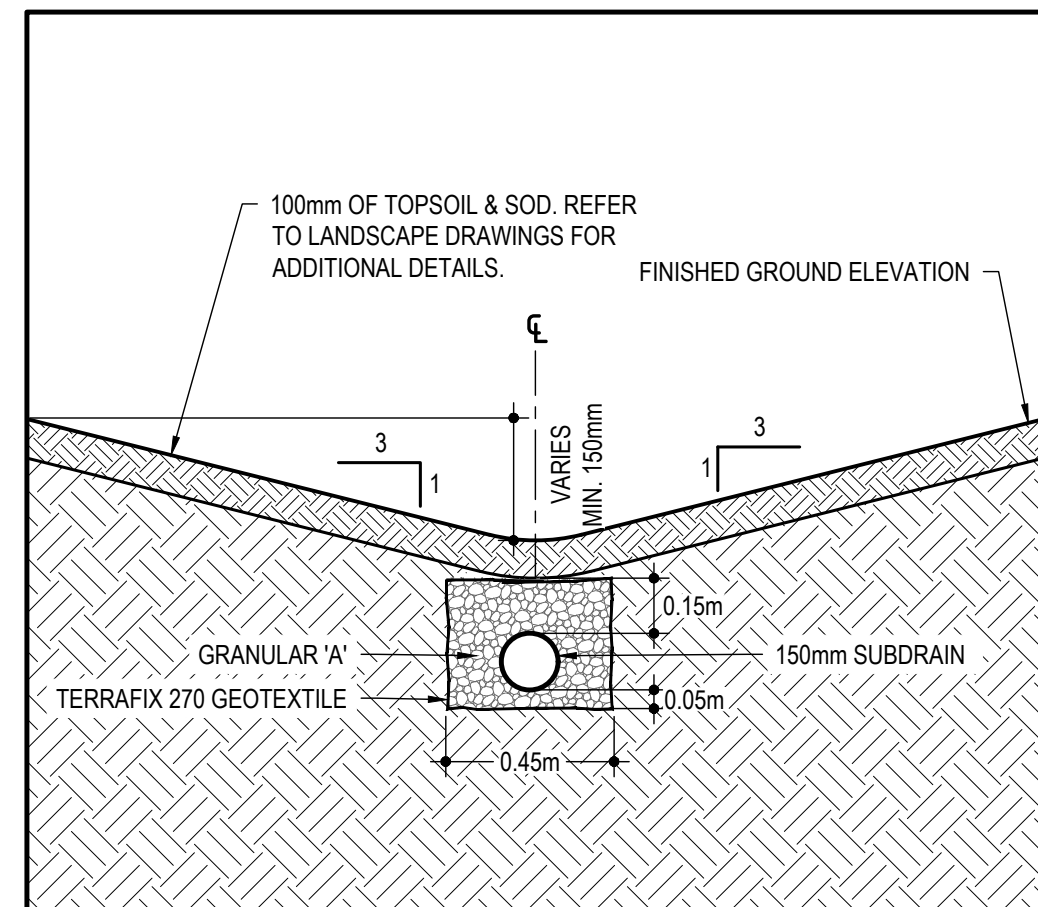
2 TYPICAL STEP CONNECTION
SCALE: 1:30



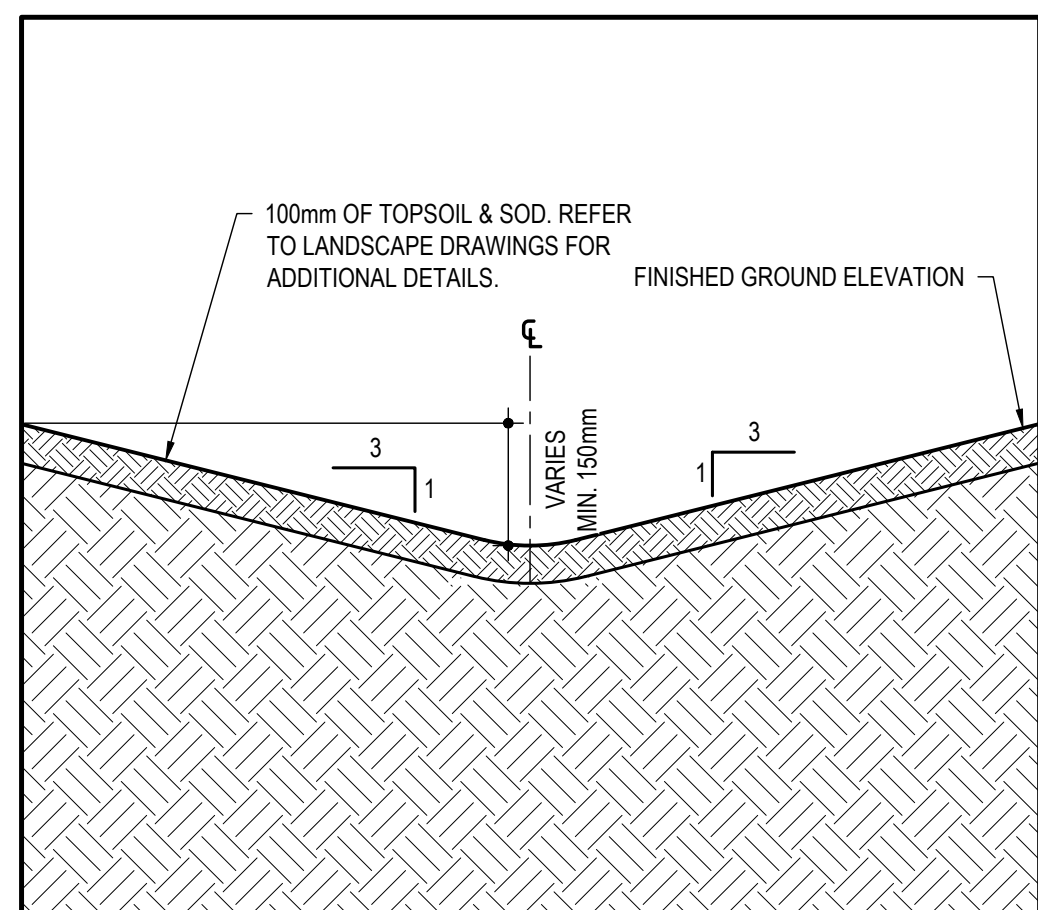
3 FROST PROTECTION DETAIL (SEWERS)
SCALE: 1:20



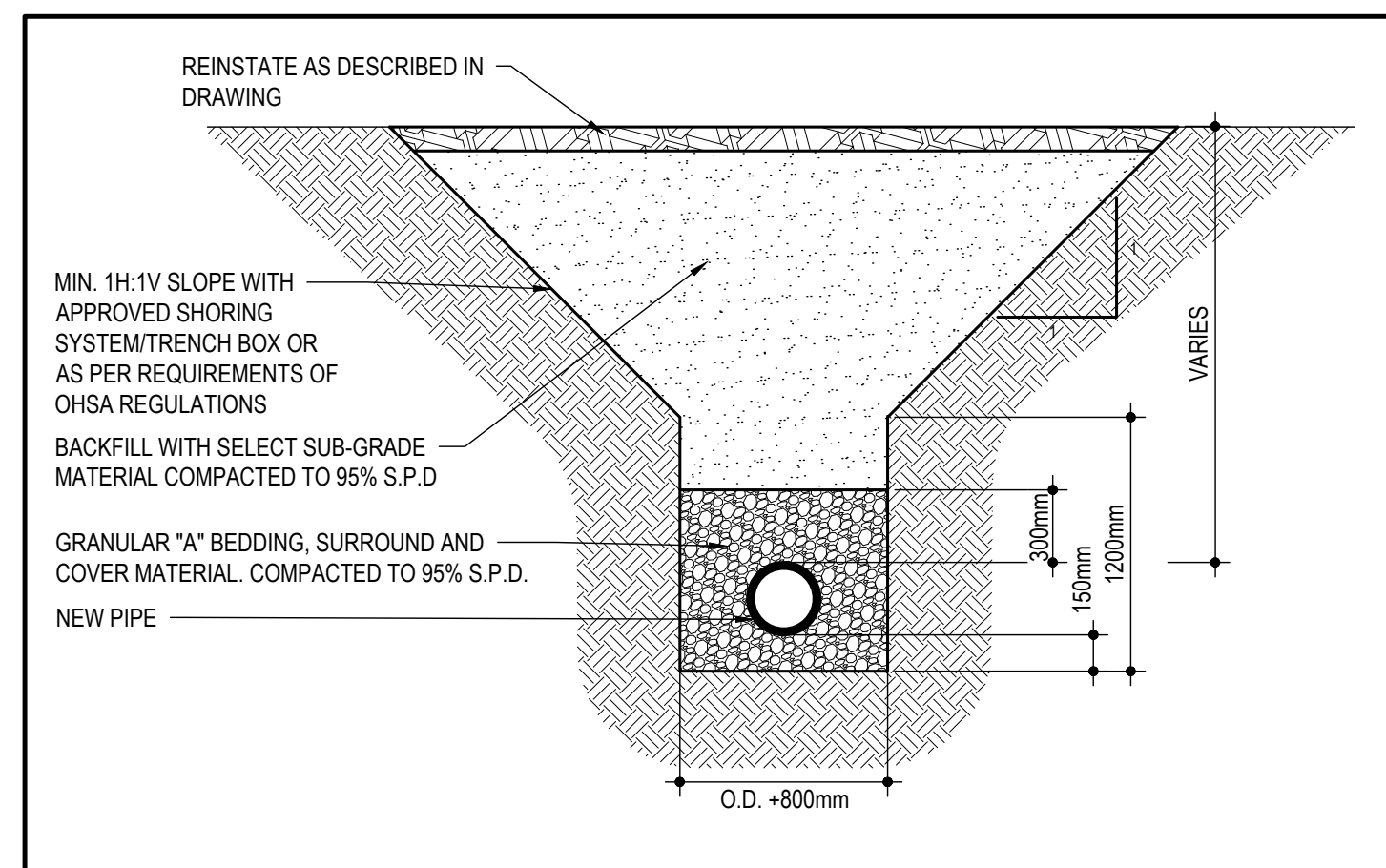
E SECTION E
SCALE: H 1:100 V 1:50



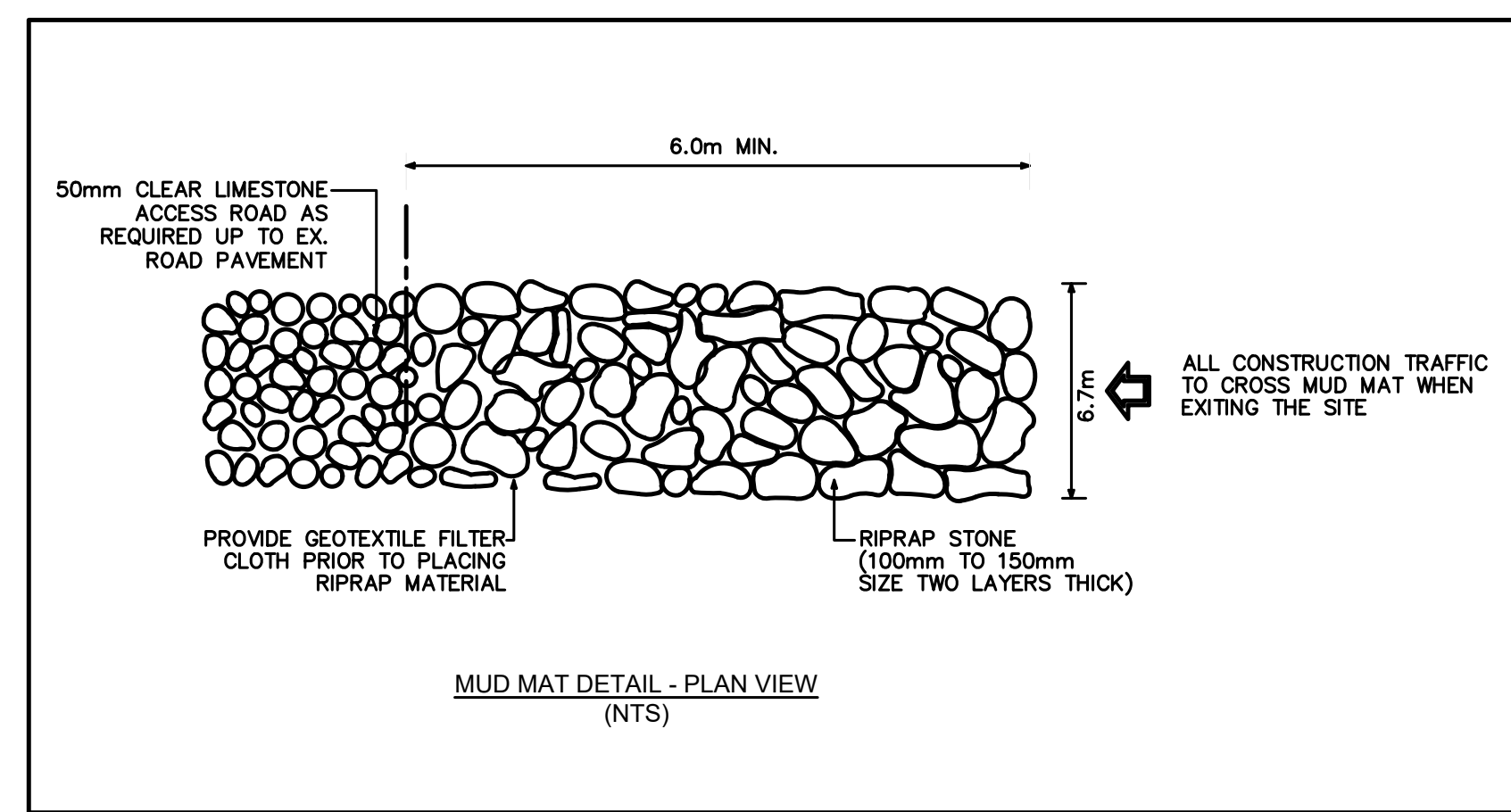
4 TYPICAL SWALE WITH SUBDRAIN
SCALE: 1:20



5 TYPICAL SWALE WITHOUT SUBDRAIN
SCALE: 1:20



6 TYPICAL TRENCH DETAIL
SCALE: NTS



7 MUD MAT DETAIL
SCALE: NTS

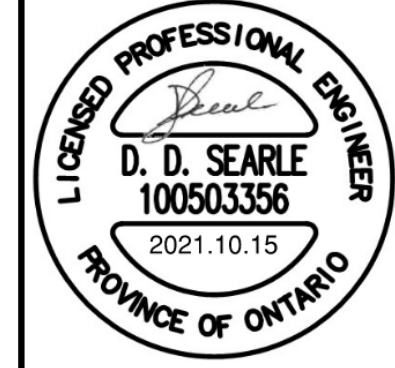


124 GARDINERS ROAD, SUITE 201
KINGSTON, ONTARIO
CANADA K7P 0G2
PHONE: 613-634-7373
WWW.WSP.COM

CONSULTANT:



SEAL:



CLIENT:



CLIENT REF. #

PROJECT:

TERRACE FLATS

KEY PLAN



DISCLAIMER: THIS DRAWING AND DESIGN IS COPYRIGHT PROTECTED WHICH SHALL NOT BE USED, REPRODUCED OR REUSED WITHOUT WRITTEN PERMISSION BY WSP. THE CONTRACTOR SHALL CHECK AND VERIFY ALL DIMENSIONS AND UTILITY LOCATIONS AND REPORT ALL ERRORS AND OMISSIONS PRIOR TO COMMENCING WORK. THIS DRAWING IS NOT TO BE SCALED.

ISSUED FOR - REVISION

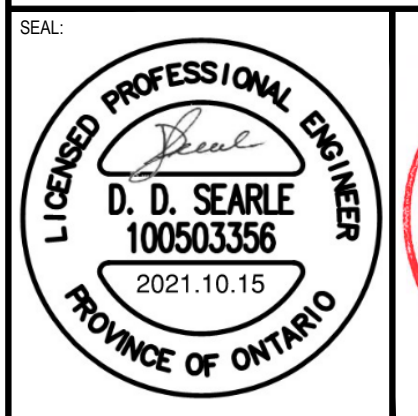
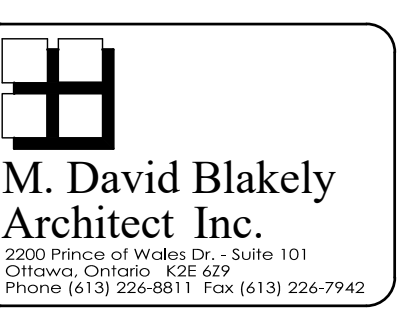
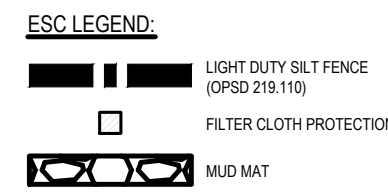
IS	RE	DATE	DESCRIPTION
2		2021-10-15	RE-ISSUED FOR SPA
1		2021-07-07	ISSUED FOR SPA

PROJECT NO.	DATE
211-01221-00	MARCH 2021

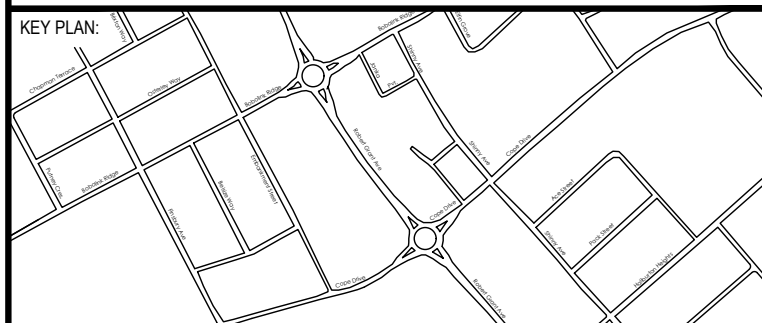
DISCIPLINE:	TITLE:
CIVIL	TERRACE FLATS DETAILS & SECTIONS II

SHEET NUMBER:	DATE OF:	REV #
C1.7	OCTOBER 15, 2021	1

NOTES:
1. REFER TO DRAWING C0.1 FOR NOTES AND FULL LEGEND.



CLIENT REF. #
PROJECT:
TERRACE FLATS

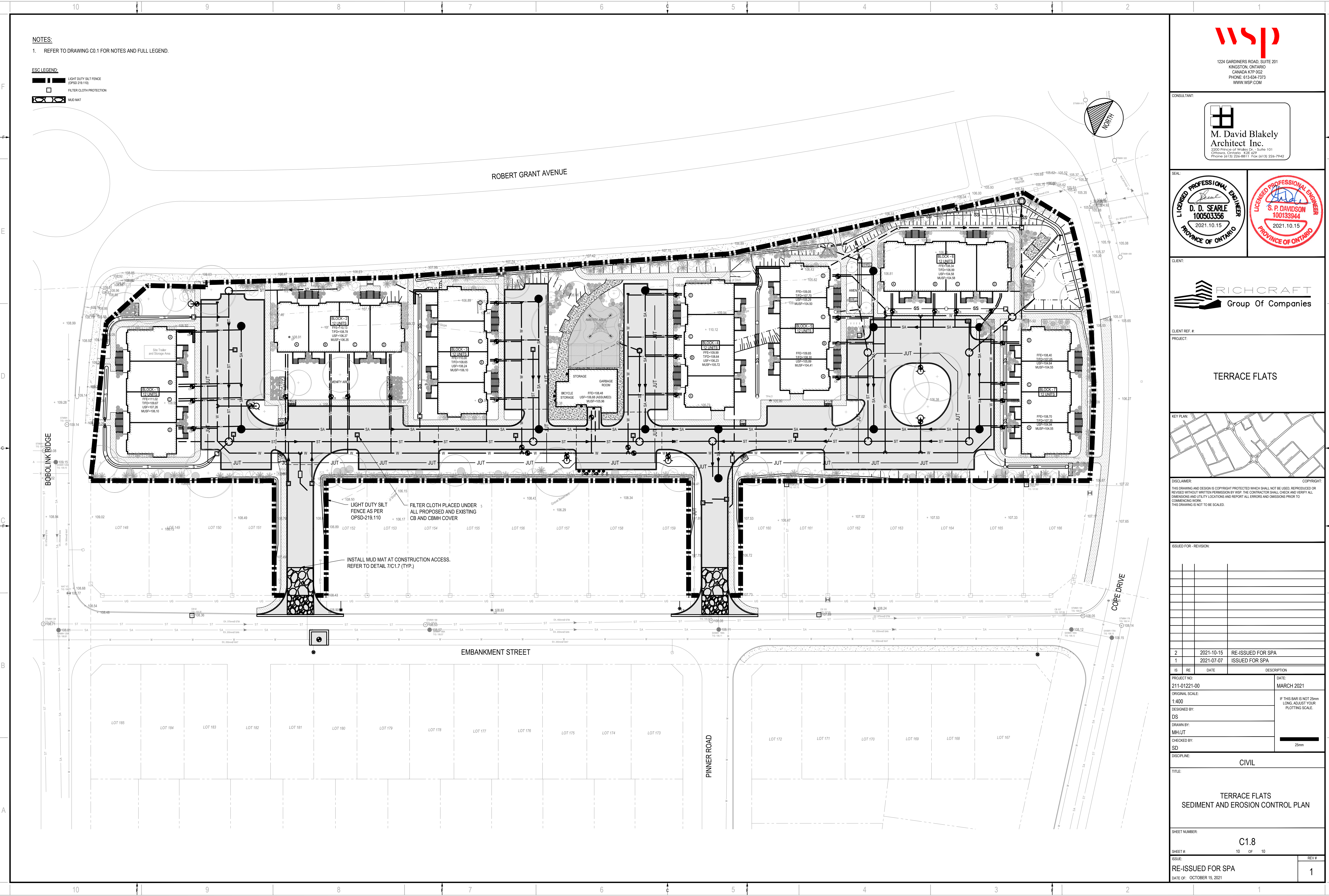


DISCLAIMER: THIS DRAWING AND DESIGN IS COPYRIGHT PROTECTED WHICH SHALL NOT BE USED, REPRODUCED OR PRESENTED WITHOUT WRITTEN PERMISSION BY WSP. THE CONTRACTOR SHALL CHECK AND VERIFY ALL DIMENSIONS AND UTILITY LOCATIONS AND REPORT ALL ERRORS AND OMISSIONS PRIOR TO COMMENCING WORK. THIS DRAWING IS NOT TO BE SCALED.

ISSUED FOR - REVISION	DATE	DESCRIPTION
2	2021-10-15	RE-ISSUED FOR SPA
1	2021-07-07	ISSUED FOR SPA

PROJECT NO:	211-01221-00	DATE:	MARCH 2021
ORIGINAL SCALE:	1:400	IF THIS BAR IS NOT 25mm LONG, ADJUST YOUR PLOTTING SCALE.	
DESIGNED BY:	DS		
DRAWN BY:	MH/JT		
CHECKED BY:	SD		
DISCIPLINE:	CIVIL		

TITLE:	TERRACE FLATS SEDIMENT AND EROSION CONTROL PLAN		
SHEET NUMBER:	C1.8		
SHEET #:	10	OF	10
ISSUE:	RE-ISSUED FOR SPA		REV #
DATE OF:	OCTOBER 15, 2021		1



M:\2021\211-01221-00 - Richcraft Terrace Flats Site Plan\Drawings\01 - Civil\01 - Proposed\211-01221-00 SEDIMENT & CONTROL PLAN.dwg, C01.15, 2021-11-10am (By:rhuram)