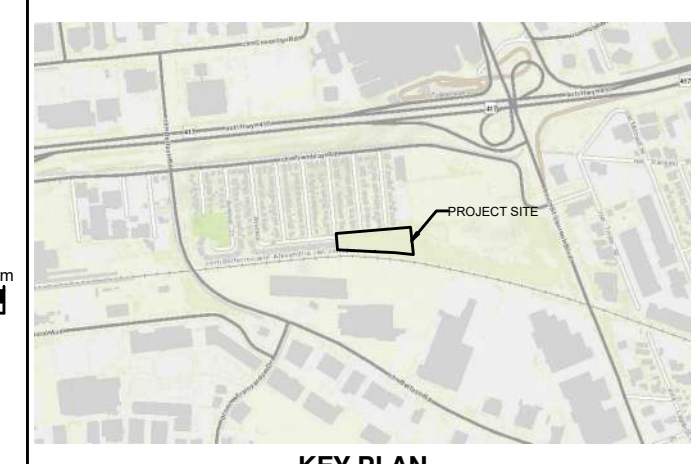


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 5. Positions of exposed or finished Mechanical or Electrical devices, fittings and fixtures are indicated on the Architectural Drawings. Locations shown on the Architectural Drawings shall govern over Mechanical and Electrical Drawings. Mechanical and Electrical items not clearly located will be located as directed by the Architect.
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KEY PLAN



REVISION RECORD

NO.	DESCRIPTION	DATE
1	ISSUED FOR COORDINATION	2019-04-30
2	ISSUED FOR REVIEW	2019-10-01
3	ISSUED FOR SITE PLAN APPROVAL	2020-12-18
4	ISSUED FOR SITE PLAN APPROVAL	2021-05-10

ISSUE RECORD

NO.	DESCRIPTION	DATE
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2	ISSUED FOR REVIEW	2019-10-01
3	ISSUED FOR SITE PLAN APPROVAL	2020-12-18
4	ISSUED FOR SITE PLAN APPROVAL	2021-05-10

PARSONS
 1223 MICHAEL STREET, SUITE 100, OTTAWA, ONTARIO K1U 1T2
 TEL: 613-736-4100 FAX: 613-736-7100

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 Project 1 Studio Incorporated
 (613) 233-3636 | info@project1studio.ca

1399 Avenue U
 1399 Avenue U
 (formerly 530 Tremblay Road)
 Ottawa, ON

PROJ	SCALE	DATE	ISSUED
477074	1:300	SS	MM

SITE SERVICING PLAN

REFER TO DRAWING C105 FOR WATERMAIN, STORM MAINTENANCE HOLE AND SEWER, OIL GIP SEPARATOR, AND SANITARY MAINTENANCE HOLE AND SEWER DATA

C101
 #18089

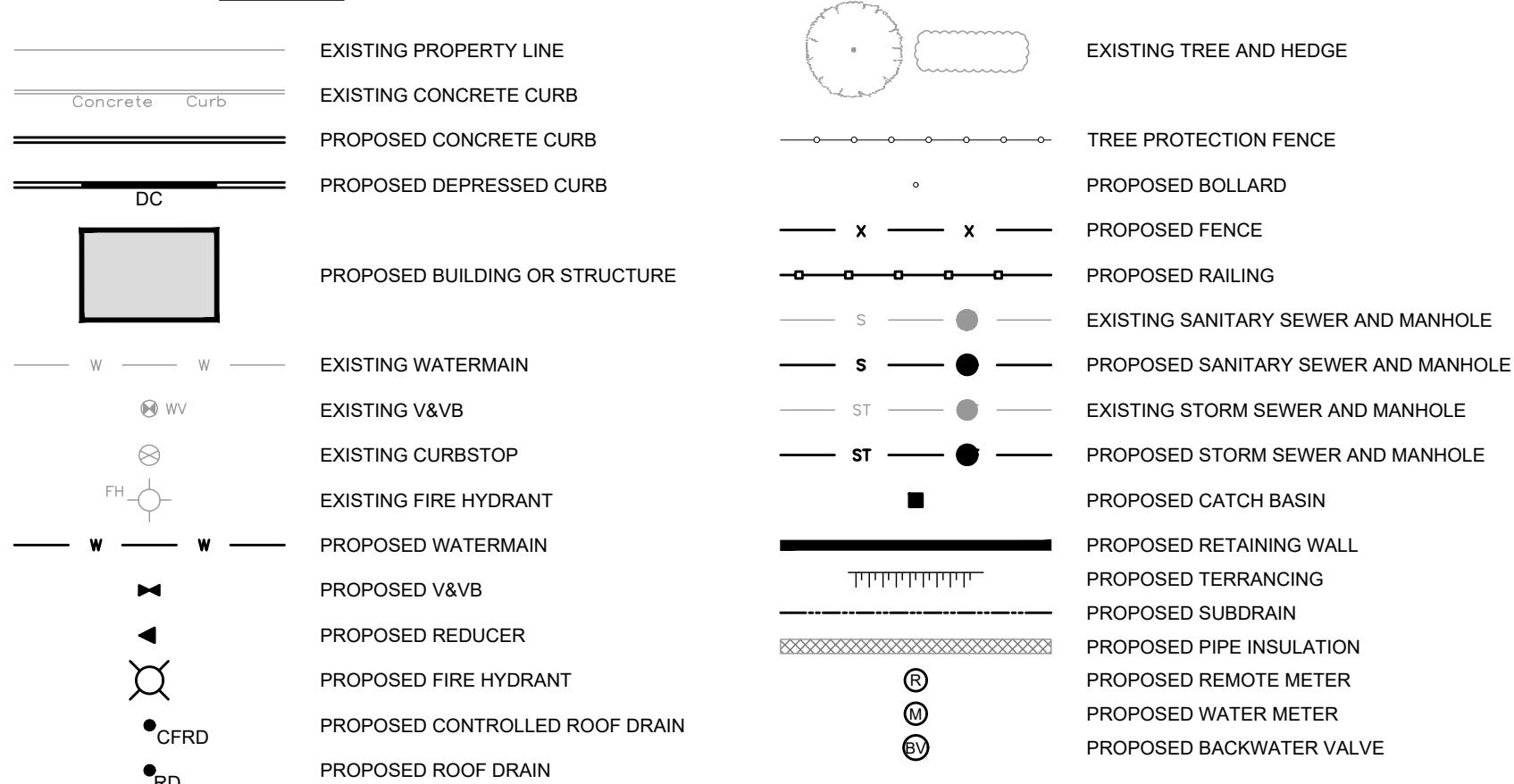
NOTES - GENERAL

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- ALL ELEVATIONS ARE GEODETIC AND UTILIZE METRIC UNITS.
- JOB BENCH MARK - REFER TO SURVEY BY AOV LTD. CONFIRM WITH CONTRACT ADMINISTRATOR PRIOR TO UTILIZATION OF BENCH MARK.
- ALL GROUND SURFACES SHALL BE EVENLY GRADED WITHOUT PONDING AREAS AND WITHOUT LOW POINTS EXCEPT WHERE APPROVED SWALE OR CATCH BASIN OUTLETS ARE PROVIDED.
- STRIP AND REMOVE ALL TOPSOIL FROM IMPROVED AREAS.
- COORDINATE AND SCHEDULE ALL WORK WITH OTHER TRADES AND CONTRACTORS.
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- RESTORE PAVEMENT STRUCTURE AND SURFACES ON EXISTING ROADS TO A CONDITION AT LEAST EQUAL TO ORIGINAL AND TO THE SATISFACTION OF THE MUNICIPAL AUTHORITIES.
- ALL MATERIAL SUPPLIED AND PLACED FOR PARKING LOT AND ACCESS ROAD CONSTRUCTION SHALL BE TO OPS5 STANDARDS AND SPECIFICATIONS UNLESS OTHERWISE NOTED. CONSTRUCTION TO OPS5 206, 310 & 314. MATERIALS TO OPS5 1001, 1003 & 1010.
- ABUTTING PROPERTY GRADE TO BE MATCHED.
- OBTAIN AND PAY FOR ALL NECESSARY PERMITS AND APPROVALS FROM THE MUNICIPAL AUTHORITIES PRIOR TO COMMENCING CONSTRUCTION.
- MINIMIZE DISTURBANCE TO EXISTING VEGETATION DURING THE EXECUTION OF ALL WORKS.
- FILTER FABRIC TO BE INSTALLED AND MAINTAINED BETWEEN THE FRAME AND COVER OF ALL CATCHBASINS AND CATCHBASIN MANHOLES DURING THE CONSTRUCTION PERIOD TO MINIMIZE SEDIMENTS ENTERING THE STORM SEWER SYSTEM. ALL GROUND AREAS SHALL BE COMPLETED PRIOR TO THE REMOVAL OF THE FILTER FABRIC IN THE CATCH BASINS.
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- REFER TO ARCHITECT AND LANDSCAPE ARCHITECTS DRAWINGS FOR BUILDING, LANDSCAPE, AND HARD SURFACE AREAS AND DIMENSIONS.
- THIS DRAWING REFLECTS THE PROPOSED GRADING, SEWER AND WATERMAIN DESIGN FOR THE CAPITAL WORKS PROJECT CP000188 ON THE ADJACENT AVENUES AS PRESENTED IN DRAWINGS 024, 028, 044, 045, AND 046, DATED 27/02/20.

NOTES - WATERMAIN

- SUPPLY AND INSTALL ALL WATERMAIN AND APPURTENANCES IN ACCORDANCE WITH MOST CURRENT CITY OF OTTAWA STANDARDS AND SPECIFICATIONS.
- ALL WATER MAIN TO BE INSTALLED AT MINIMUM COVER OF 2.4m BELOW FINISHED GRADE. WHERE REQUIRED, PROVIDE INSULATION IN ACCORDANCE WITH CITY OF OTTAWA STANDARDS W22 AND W23.
- WATER MAIN BEDDING AS PER CITY OF OTTAWA STANDARD W17.
- CONCRETE THROUST BLOCKS AND RESTRAINING AS PER DETAILS ON DRAWING C103.
- CATHODIC PROTECTION REQUIRED FOR ALL IRON FITTINGS AS PER DETAILS ON DRAWING C103.
- IF WATER MAIN MUST BE DEFLECTED TO MEET ALIGNMENT, ENSURE THAT THE AMOUNT OF DEFLECTION USED IS LESS THAN HALF THAT RECOMMENDED BY THE MANUFACTURER.
- EXCAVATION, INSTALLATION AND BACKFILL BY CONTRACTOR. CONNECTIONS AND SHUT-OFFS AT THE MAIN BY CITY.
- WATERMAIN AND SEWER CROSSINGS TO BE IN ACCORDANCE WITH CITY OF OTTAWA STANDARDS W25 AND W25.2.

LEGEND:



ICD DATA

ICD ID	LOCATION	OUTLET DIAMETER	FLOW (L/s)	HEAD	MODEL	STORAGE VOLUME REQUIRED	STORAGE VOLUME PROVIDED
1	ST-CBMH-03S	300mm	3.9 (100-YEAR+20%) 3.9 (100-YEAR) 3.5 (5-YEAR)	1.04m 0.91m 0.84m	TEMPEST LHF	366.5 cu.m (100-YEAR+20%) 292.8 cu.m (100-YEAR) 119.8 cu.m (5-YEAR)	373.2 cu.m (100-YEAR+20%) 338.1 cu.m (100-YEAR) 298.1 cu.m (5-YEAR)
2	ST-MH-04T	300mm	3.9 (100-YEAR+20%) 3.9 (100-YEAR) 2.7 (5-YEAR)	1.32m 1.05m 0.64m	TEMPEST LHF	133.4 cu.m (100-YEAR+20%) 106.3 cu.m (100-YEAR) 45.7 cu.m (5-YEAR)	140.6 cu.m (100-YEAR+20%) 118.4 cu.m (100-YEAR) 56.8 cu.m (5-YEAR)
3	ST-CBMH-LD-02	250mm	3.77 (100-YEAR)	1.68m	TEMPEST LHF	-	10.8 cu.m (100-YEAR)

* STORAGE PROVIDED INCLUDES CULTEC CHAMBER AND PIPE VOLUME. REFER TO UNDERGROUND CHAMBER STORAGE NOTES FOR FURTHER DETAILS.

BUILDING A CONTROLLED ROOF DRAIN DATA

ROOF DRAIN	DRAINAGE AREA (sqm)	MODEL	No. OF DRAINS	CONTROLLED FLOW (L/s)	MAX PONDING DEPTH (mm)	STORAGE VOLUME (cu.m)
				5 YEAR	100 YEAR	5 YEAR
WS-A1	72.13	WATTS ADJUSTABLE ACCUTROL WEIR ROOF DRAIN	1	0.99	1.35	79.5
WS-A2	38.57	WATTS ADJUSTABLE ACCUTROL WEIR ROOF DRAIN	1	0.82	1.15	65.9
WS-A3	91.64	WATTS ADJUSTABLE ACCUTROL WEIR ROOF DRAIN	1	1.04	1.41	84.1
WS-A4	63.82	WATTS ADJUSTABLE ACCUTROL WEIR ROOF DRAIN	1	0.95	1.31	76.7
WS-A5	30.85	WATTS ADJUSTABLE ACCUTROL WEIR ROOF DRAIN	1	0.75	1.08	60.6
WS-A6	83.89	WATTS ADJUSTABLE ACCUTROL WEIR ROOF DRAIN	1	1.02	1.39	82.5
WS-A7	75.21	WATTS ADJUSTABLE ACCUTROL WEIR ROOF DRAIN	1	1.00	1.36	80.4
WS-A8	152.62	WATTS ADJUSTABLE ACCUTROL WEIR ROOF DRAIN	1	1.16	1.16	93.2
WS-A9	134.02	WATTS ADJUSTABLE ACCUTROL WEIR ROOF DRAIN	1	1.13	1.51	91.2
TOTAL FLOW				8.90	11.71	121.4

BUILDING B CONTROLLED ROOF DRAIN DATA

ROOF DRAIN	DRAINAGE AREA (sqm)	MODEL	No. OF DRAINS	CONTROLLED FLOW (L/s)	MAX PONDING DEPTH (mm)	STORAGE VOLUME (cu.m)
				5 YEAR	100 YEAR	5 YEAR
WS-B1	182.21	WATTS ADJUSTABLE ACCUTROL WEIR ROOF DRAIN	1	1.19	1.58	96.3
WS-B2	169.35	WATTS ADJUSTABLE ACCUTROL WEIR ROOF DRAIN	1	1.18	1.56	95.1
WS-B3	74.82	WATTS ADJUSTABLE ACCUTROL WEIR ROOF DRAIN	1	1.00	1.36	80.3
WS-B4	139.28	WATTS ADJUSTABLE ACCUTROL WEIR ROOF DRAIN	1	1.14	1.51	91.8
WS-B5	51.98	WATTS ADJUSTABLE ACCUTROL WEIR ROOF DRAIN	1	0.89	1.25	71.7
WS-B6	73.54	WATTS ADJUSTABLE ACCUTROL WEIR ROOF DRAIN	1	0.99	1.35	79.9
WS-B7	134.12	WATTS ADJUSTABLE ACCUTROL WEIR ROOF DRAIN	1	1.13	1.51	91.2
WS-B8	44.18	WATTS ADJUSTABLE ACCUTROL WEIR ROOF DRAIN	1	0.85	0.85	68.7
WS-B9	212.54	WATTS ADJUSTABLE ACCUTROL WEIR ROOF DRAIN	1	1.22	1.61	98.6
TOTAL FLOW				9.59	12.58	129.7

NOTES - SEWER

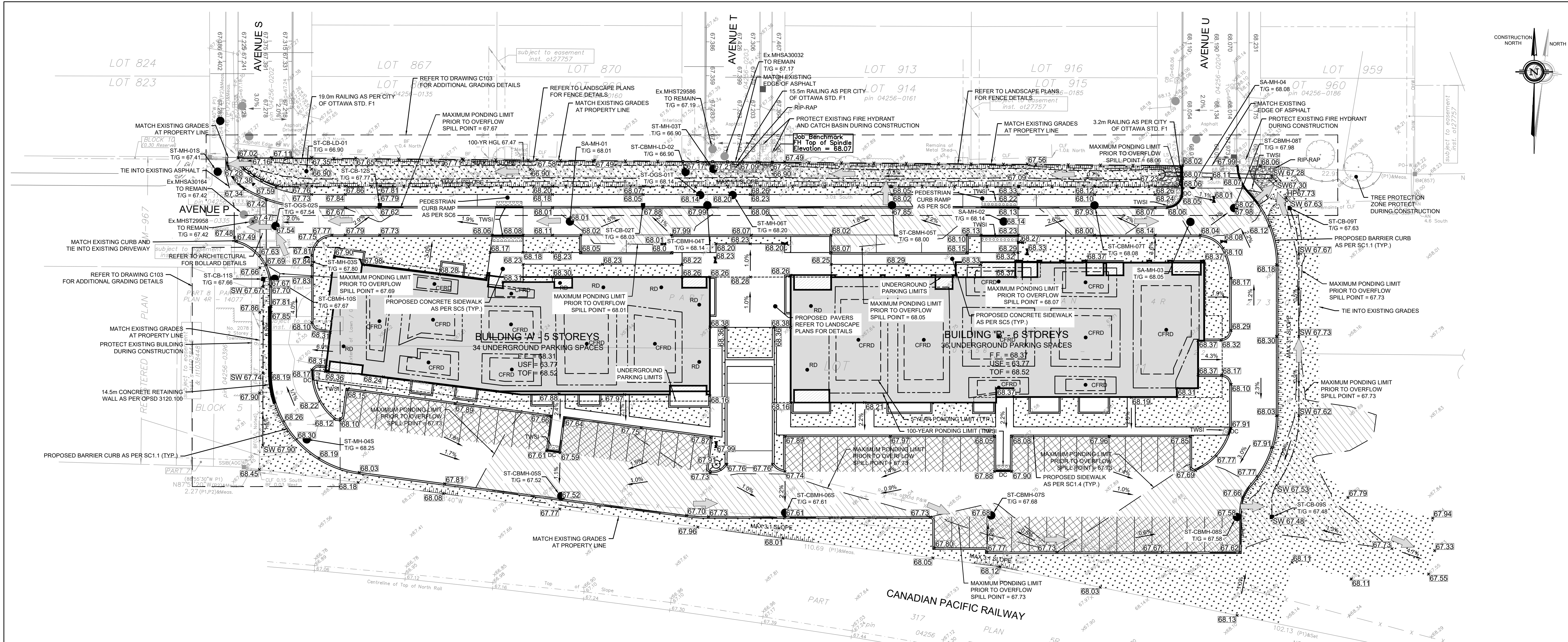
- SUPPLY AND INSTALL ALL SEWERS AND APPURTENANCES IN ACCORDANCE WITH MOST CURRENT CITY OF OTTAWA STANDARDS AND SPECIFICATIONS.
- SEWER BEDDING AS PER CITY OF OTTAWA STANDARD S6 FOR SINGLE TRENCH AND CITY OF OTTAWA STANDARD S7 FOR COMBINED TRENCH.
- ALL WORK SHALL BE PERFORMED, AS APPLICABLE IN ACCORDANCE WITH OPS5 407, AND 410.
- CONTRACTOR TO CONFIRM ELEVATION OF EXISTING STORM AND SANITARY SEWERS AT PROPOSED CONNECTION POINTS AND REPORT ANY DISCREPANCIES TO THE ENGINEER BEFORE COMMENCING ANY WORK.
- ALL SEWERS WITH LESS THAN 1.5m OF COVER ARE SUBJECT TO INSULATION DETAIL.
- STORM AND SANITARY LATERALS SHALL BE EQUIPPED WITH BACKWATER VALVES IN ACCORDANCE WITH CITY OF OTTAWA STANDARDS.
- CONTRACTOR TO CCTV ALL NEW SEWERS, 250mm OR GREATER, TO ENSURE THEY ARE CLEAN AND OPERATIONAL UPON COMPLETION OF CONTRACT. THE CONTRACTOR IS RESPONSIBLE TO FLUSH AND CLEAN ALL SEWERS.
- PROVIDE SANITARY BACKWATER VALVES IN ACCORDANCE WITH CITY OF OTTAWA STANDARD S14.1 AND FOUNDATION DRAIN BACKWATER VALVE IN ACCORDANCE WITH CITY OF OTTAWA STANDARD S14.
- SEWER CONNECTIONS TO BE MADE ABOVE THE SPRINGLINE OF THE SEWER AS PER CITY OF OTTAWA STANDARD S11, S11.1, AND S11.2.

NOTES - AVENUE S UNDERGROUND STORMWATER STORAGE

- UNDERGROUND STORMWATER STORAGE REQUIRED: 366.5 cu.m (+ 28.43 cu.m. (PIPE) = 373.2 cu.m.
- CHAMBER TYPE: CULTEC RECHARGER 180HD OR EQUIVALENT.
- BOTTOM OF CHAMBER ELEVATION: 66.28m.
- TOP OF SYSTEM TO BE A MINIMUM OF 690mm BELOW FINISHED ROAD SURFACE.
- ENTIRE SYSTEM TO BE LINED WITH 3 PART IMPERMEABLE LINER SYSTEM (80Z NON-WOVEN GEOTEXTILE, 30MIL PVC THERMOPLASTIC LINER, 80Z NON-WOVEN GEOTEXTILE).

NOTES - AVENUE T UNDERGROUND STORMWATER STORAGE

- UNDERGROUND STORMWATER STORAGE REQUIRED: 133.4 cu.m. UNDERGROUND STORMWATER STORAGE PROVIDED: 132.6 cu.m. (CULTEC) + 8.0 cu.m. (PIPE) = 140.6 cu.m.
- CHAMBER TYPE: CULTEC RECHARGER 330XLHD OR EQUIVALENT.
- BOTTOM OF CHAMBER ELEVATION: 66.18m.
- TOP OF SYSTEM TO BE A MINIMUM OF 690mm BELOW FINISHED ROAD SURFACE.
- ENTIRE SYSTEM TO BE LINED WITH 3 PART IMPERMEABLE LINER SYSTEM (80Z NON-WOVEN GEOTEXTILE, 30MIL PVC THERMOPLASTIC LINER, 80Z NON-WOVEN GEOTEXTILE).



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CLV GROUP
 485 Bank Street, Suite 200
 Ottawa, Ontario
 K2P 1Z2

REVISION RECORD

NO.	DESCRIPTION	DATE
1	RE-ISSUED FOR SITE PLAN APPROVAL	2021-05-10
2	RE-ISSUED FOR SITE PLAN APPROVAL	2020-12-18
3	ISSUED FOR SITE PLAN APPROVAL	2019-10-28
4	ISSUED FOR REVIEW	2019-10-01
5	ISSUED FOR COORDINATION	2019-04-30

ISSUE RECORD

NO.	DESCRIPTION	DATE
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LEGEND:

	EXISTING PROPERTY LINE		EXISTING TREE AND HEDGE
	EXISTING CONCRETE CURB		PROPOSED LANDSCAPE AREA
	PROPOSED CONCRETE CURB		TREE PROTECTION FENCE
	PROPOSED DEPRESSED CURB		PROPOSED BOLLARD
	PROPOSED BUILDING OR STRUCTURE		PROPOSED RETAINING WALL
	EXISTING WATERMAIN		PROPOSED TERRACING
	EXISTING V&B		PROPOSED DITCH
	EXISTING CURBSTOP		PROPOSED FENCE
	EXISTING FIRE HYDRANT		PROPOSED RAILING
	PROPOSED V&B		EXISTING GRADE
	PROPOSED FIRE HYDRANT		PROPOSED GRADE
	EXISTING SANITARY MANHOLE		PROPOSED BOTTOM OF WALL GRADE
	PROPOSED SANITARY MANHOLE		PROPOSED TOP OF WALL GRADE
	EXISTING STORM MANHOLE		PROPOSED SWALE GRADE
	PROPOSED STORM MANHOLE		PROPOSED TOP OF CURB GRADE
	PROPOSED CATCH BASIN		PROPOSED MAXIMUM PONDING LIMIT PRIOR TO OVERFLOW
	PROPOSED LIGHT DUTY PAVEMENT		PROPOSED MAJOR OVERLAND FLOW
	PROPOSED TWSS AS PER SC7.3		
	PROPOSED CONTROLLED ROOF DRAIN		
	PROPOSED ROOF DRAIN		

PAVEMENT STRUCTURES			
MATERIAL		LIGHT DUTY	HEAVY DUTY
Asphaltic Concrete Surface Course: SP12.5 CAT B (PG58-34)		50 mm	40 mm
Asphaltic Concrete Binder Course: SP19 CAT B (PG 58-34)		n/a	50 mm
Granular Base: OPSS Granular A Crushed Stone		150 mm	150 mm
Granular Sub-base: OPSS Granular B, Type II		300 mm	450 mm

FROM: PRELIMINARY GEOTECHNICAL INVESTIGATION, PROPOSED RESIDENTIAL DEVELOPMENT, 530 TREMBLAY ROAD, OTTAWA, ONTARIO, BY PATERSON GROUP INC. DATED JULY 25, 2016

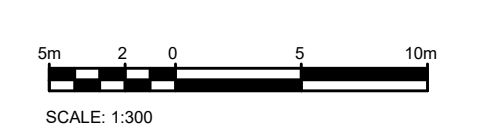
PARSONS
 1223 MICHAEL STREET, SUITE 100, OTTAWA, ONTARIO K1J 1T2
 Tel: (613) 738-4100 Fax: (613) 738-7100

project1 studio
 Project1 Studio Incorporated
 (613) 253-3036 | info@project1studio.ca

1399 Avenue U
 1399 Avenue U
 (formerly 530 Tremblay Road)
 Ottawa, ON

PROJ	SCALE	DRAWN	REVIEWED
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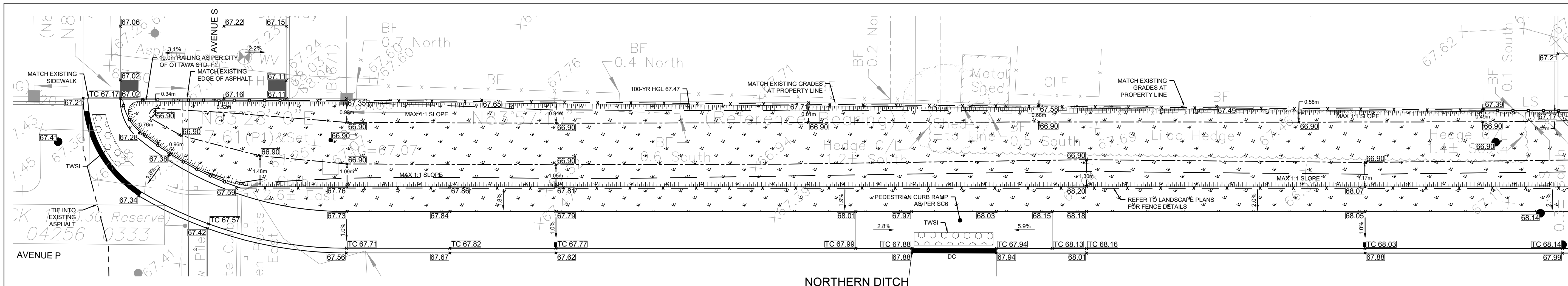
GRADING PLAN



C102

#18089

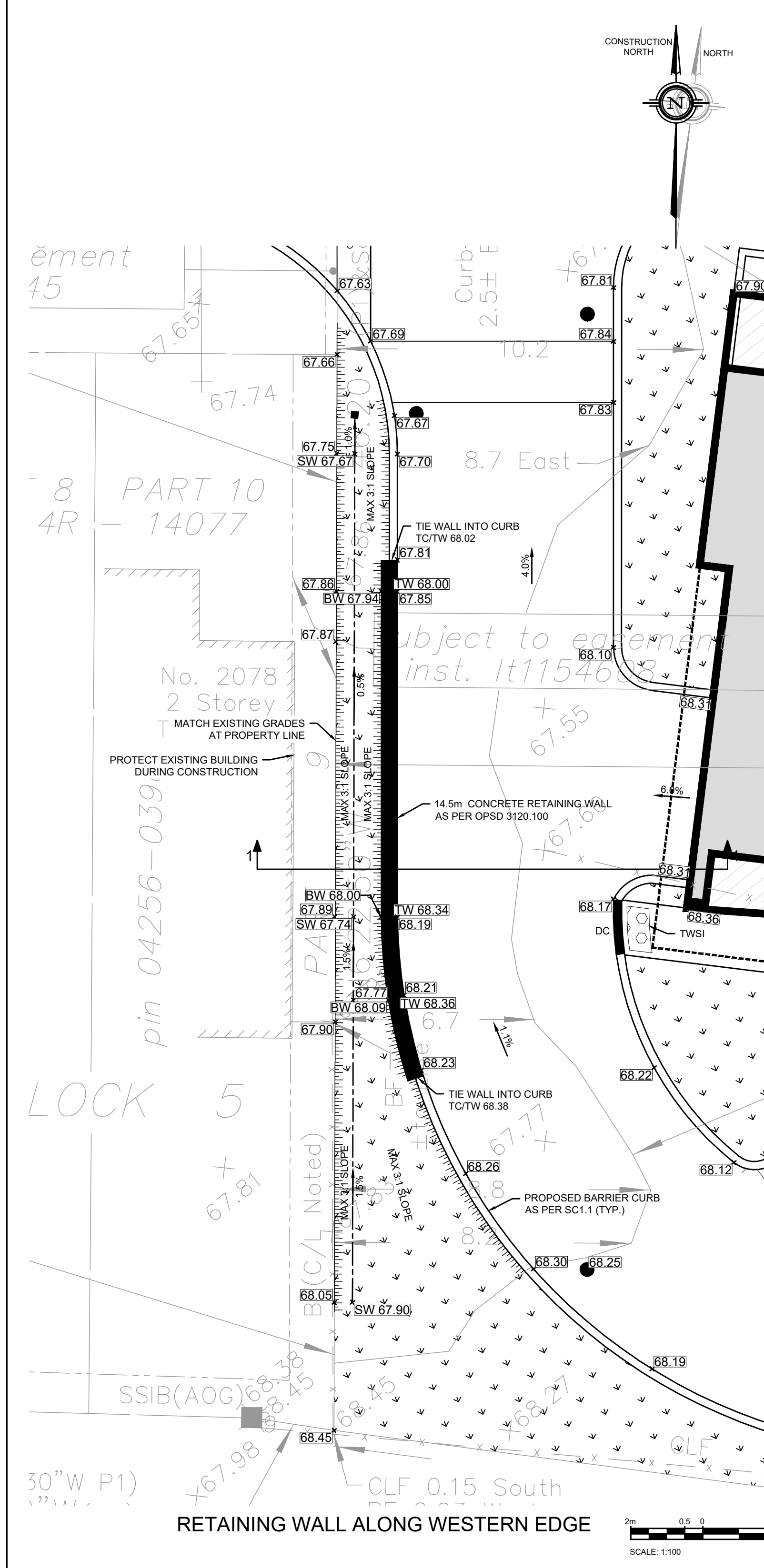
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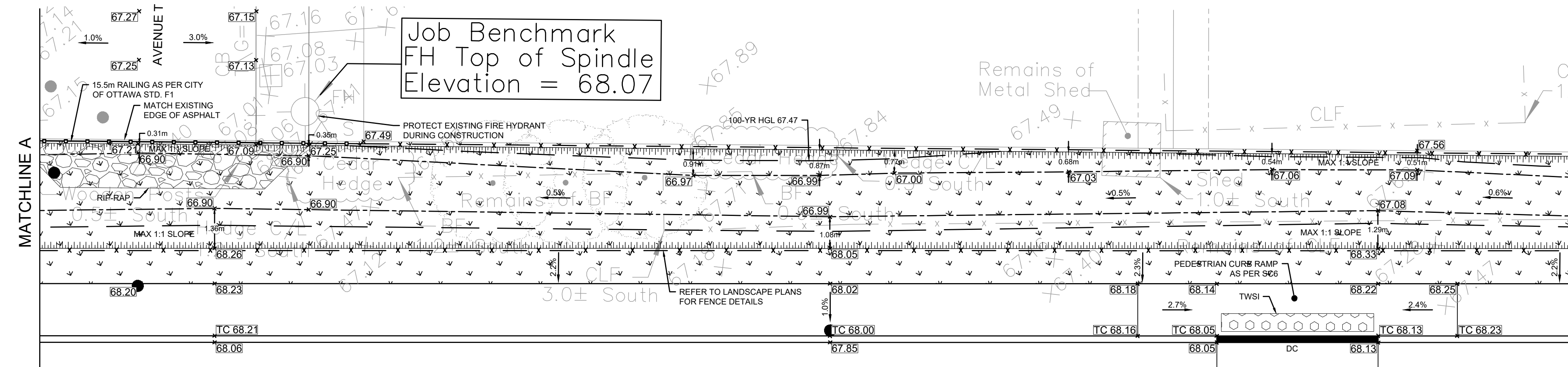
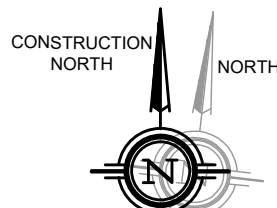
MATCHLINE A

MATCHLINE B

NORTHERN DITCH



RETAINING WALL ALONG WESTERN EDGE

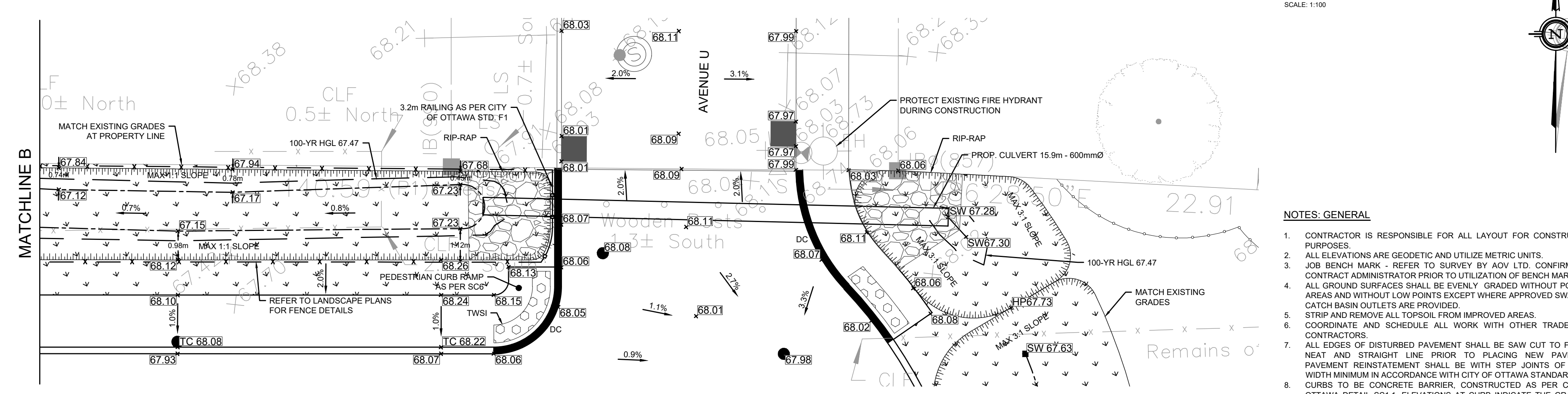
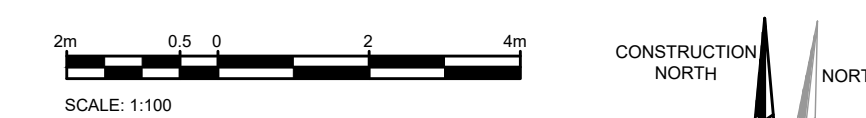


Job Benchmark
FH Top of Spindle
Elevation = 68.07

NORTHERN DITCH

MATCHLINE A

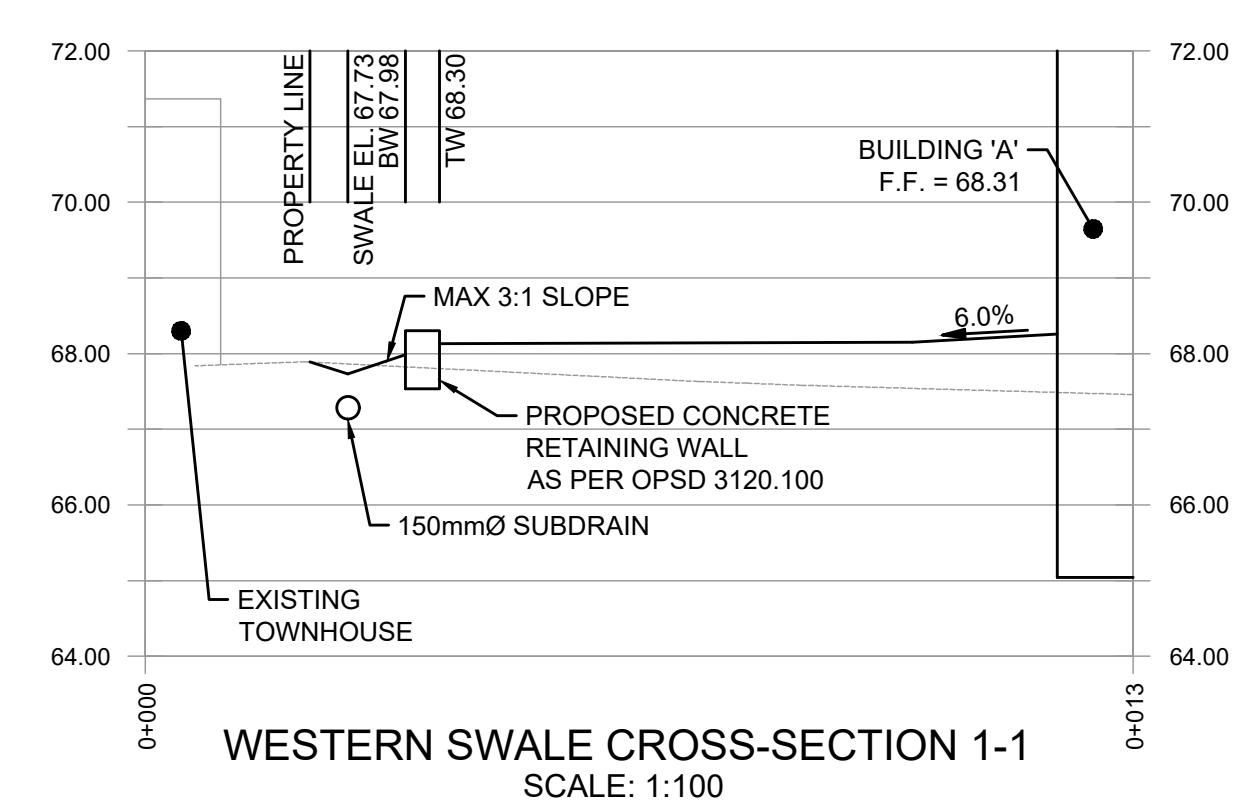
MATCHLINE B



NORTHERN DITCH

MATCHLINE B

MATCHLINE U



WESTERN SWALE CROSS-SECTION 1-1
SCALE: 1:100

LEGEND:

	EXISTING PROPERTY LINE		EXISTING TREE AND HEDGE
	EXISTING CONCRETE CURB		PROPOSED LANDSCAPE AREA
	PROPOSED CONCRETE CURB		TREE PROTECTION FENCE
	PROPOSED DEPRESSED CURB		PROPOSED BOLLARD
	PROPOSED BUILDING OR STRUCTURE		PROPOSED RETAINING WALL
	EXISTING WATERMAIN		PROPOSED TERRACING
	EXISTING V&VB		PROPOSED DITCH
	EXISTING CURBSSTOP		PROPOSED FENCE
	EXISTING FIRE HYDRANT		PROPOSED RAILING
	PROPOSED V&VB		EXISTING GRADE
	PROPOSED FIRE HYDRANT		PROPOSED GRADE
	EXISTING SANITARY MANHOLE		PROPOSED BOTTOM OF WALL GRADE
	PROPOSED SANITARY MANHOLE		PROPOSED TOP OF WALL GRADE
	EXISTING STORM MANHOLE		PROPOSED SWALE GRADE
	PROPOSED STORM MANHOLE		PROPOSED TOP OF CURB GRADE
	PROPOSED CATCH BASIN		
	PROPOSED TWSI AS PER SC7.3		

NOTES: GENERAL

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- ALL ELEVATIONS ARE GEODETIC AND UTILIZE METRIC UNITS.
- JOB BENCH MARK - REFER TO SURVEY BY ADV LTD. CONFIRM WITH CONTRACT ADMINISTRATOR PRIOR TO UTILIZATION OF BENCH MARK.
- ALL GROUND SURFACES SHALL BE EVENLY GRADED WITHOUT PONDING AREAS AND WITHOUT LOW POINTS EXCEPT WHERE APPROVED SWALE OR CATCH BASIN OUTLETS ARE PROVIDED.
- STRIP AND REMOVE ALL TOPSOIL FROM IMPROVED AREAS.
- COORDINATE AND SCHEDULE ALL WORK WITH OTHER TRADES AND CONTRACTORS.
- 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 IN ACCORDANCE WITH CITY OF OTTAWA STANDARD R10. CURBS TO BE CONCRETE BARRIER, CONSTRUCTED AS PER CITY OF OTTAWA DETAIL SC1.1. ELEVATIONS AT CURB INDICATE THE GRADE AT THE FINISHED ROAD SURFACE UNLESS NOTED OTHERWISE.
- RESTORE PAVEMENT STRUCTURE AND SURFACES ON EXISTING ROADS TO A CONDITION AT LEAST EQUAL TO ORIGINAL AND TO THE SATISFACTION OF THE MUNICIPAL AUTHORITIES.
- ALL MATERIAL SUPPLIED AND PLACED FOR PARKING LOT AND ACCESS ROAD CONSTRUCTION SHALL BE TO OPSR STANDARDS AND SPECIFICATIONS UNLESS OTHERWISE NOTED. CONSTRUCTION TO OPSR 206, 310 & 314. MATERIALS TO OPSR 1001, 1003 & 1010.
- ABUTTING PROPERTY GRADE TO BE MATCHED.
- OBTAIN AND PAY FOR ALL NECESSARY PERMITS AND APPROVALS FROM THE MUNICIPAL AUTHORITIES PRIOR TO COMMENCING CONSTRUCTION.
- MINIMIZE DISTURBANCE TO EXISTING VEGETATION DURING THE EXECUTION OF ALL WORK.
- FILTER FABRIC TO BE INSTALLED AND MAINTAINED BETWEEN THE FRAME AND COVER OF ALL CATCHBASINS AND CATCHBASIN MANHOLES DURING THE CONSTRUCTION TO MINIMIZE SEDIMENTS ENTERING THE STORM SEWER SYSTEM. ALL GRASSED AREAS MUST BE COMPLETED PRIOR TO THE REMOVAL OF THE FILTER FABRIC IN THE CATCH BASINS.
- 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. ANY CONTAMINATED MATERIAL SHALL BE DISPOSED OF AT A LICENSED LANDFILL FACILITY.
- THE APPROVAL OF THIS PLAN DOES NOT EXEMPT THE CONTRACTOR FROM THE REQUIREMENTS TO OBTAIN THE VARIOUS PERMITS/APPROVALS REQUIRED TO COMPLETE A CONSTRUCTION PROJECT, SUCH AS BUT NOT LIMITED TO, ROAD CUT PERMITS, SEWER PERMITS, WATER PERMIT, ETC.
- AT PROPOSED UTILITY CONNECTION POINTS AND CROSSINGS (I.E. STORM SEWER, SANITARY SEWER, WATER, ETC.) THE CONTRACTOR SHALL DETERMINE THE PRECISE LOCATION AND DEPTH AND SIZE OF EXISTING UTILITIES AND REPORT ANY DISCREPANCIES OR CONFLICTS TO THE ENGINEER BEFORE COMMENCING WORK. PROTECT AND ASSUME RESPONSIBILITY FOR ALL EXISTING UTILITIES.
- REFER TO GEOTECHNICAL REPORT FOR SUBSURFACE CONDITIONS, CONSTRUCTION RECOMMENDATIONS, AND GEOTECHNICAL INSPECTION REQUIREMENTS.
- REFER TO ARCHITECT AND LANDSCAPE ARCHITECTS DRAWINGS FOR BUILDING, LANDSCAPE, AND HARD SURFACE AREAS AND DIMENSIONS.
- THIS DRAWING REFLECTS THE PROPOSED GRADING, SEWER AND WATERMAIN DESIGN FOR THE CAPITAL WORKS PROJECT CP00186 ON THE ADJACENT AREAS AS PRESENTED IN DRAWING 024, 026, 028, 029, 044, 045, AND 046, DATED 27/02/20.

- GENERAL ARCHITECTURAL NOTES:
- This drawing is the property of the Architect and may not be reproduced or used without the expressed consent of the Architect.
 - Drawings are not to be scaled. The Contractor is responsible for checking and verifying all levels and dimensions and shall report all discrepancies to the Architect and obtain clarification prior to commencing work.
 - Upon notice in writing, the Architect will provide written/graphic clarification or supplementary information regarding the intent of the Contract Documents.
 - The Architectural drawings are to be read in conjunction with all other Contract Documents including Project Manuals and the Structural, Mechanical and Electrical Drawings.
 - Positions of exposed or finished Mechanical or Electrical devices, fittings and fixtures are indicated on the Architectural Drawings. Locations shown on the Architectural Drawings shall govern over Mechanical and Electrical Drawings. Mechanical and Electrical items not clearly located will be located as directed by the Architect.
 - These documents are not to be used for construction unless specifically noted for such purpose.



KEY PLAN



CLV GROUP
485 Bank Street, Suite 200
Ottawa, Ontario
K2P 1Z2

REVISION RECORD

NO.	DESCRIPTION	DATE
1	RE-ISSUED FOR SITE PLAN APPROVAL	2021-05-10
2	RE-ISSUED FOR SITE PLAN APPROVAL	2020-12-18

ISSUE RECORD

NO.	DESCRIPTION	DATE
1	ISSUED FOR PERMITS	2021-05-10
2	ISSUED FOR PERMITS	2021-05-10



1399 Avenue U

1399 Avenue U
(formerly 530 Tremblay Road)
Ottawa, ON

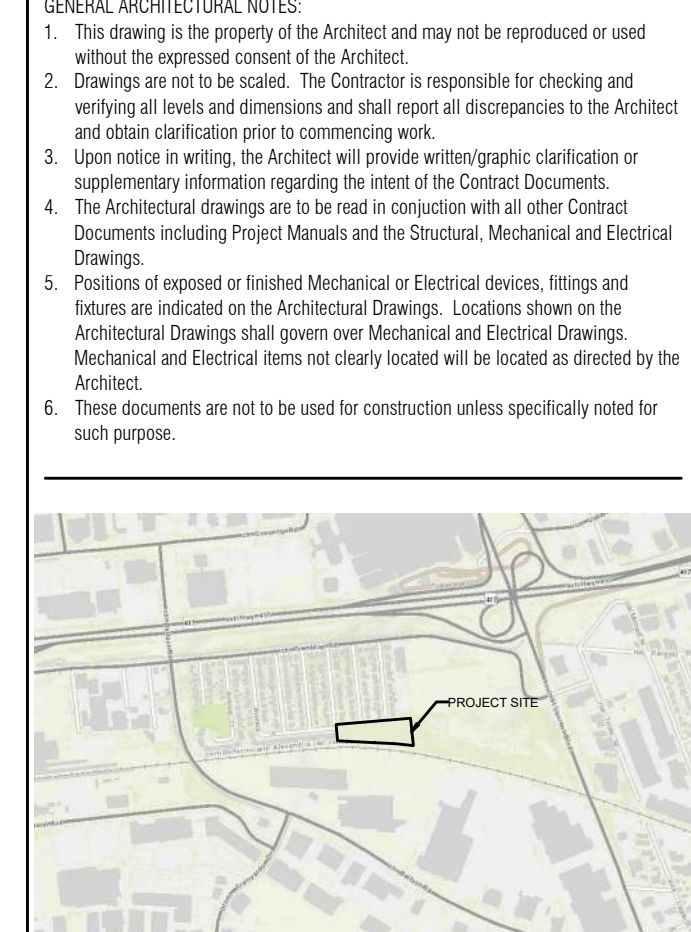
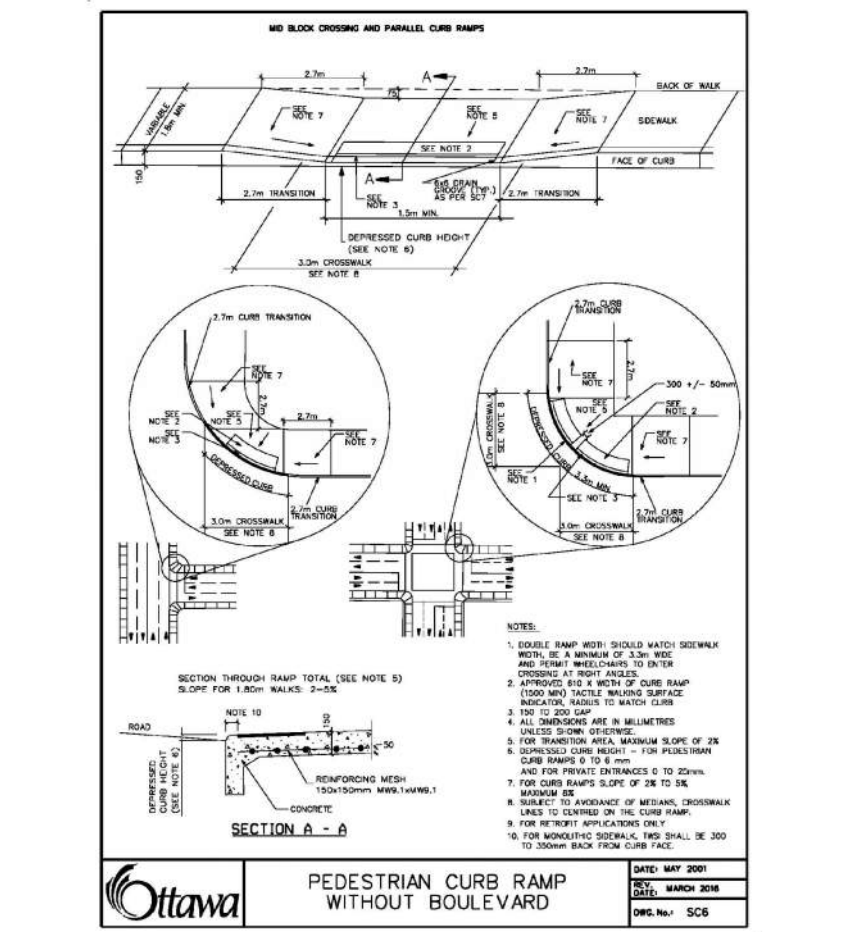
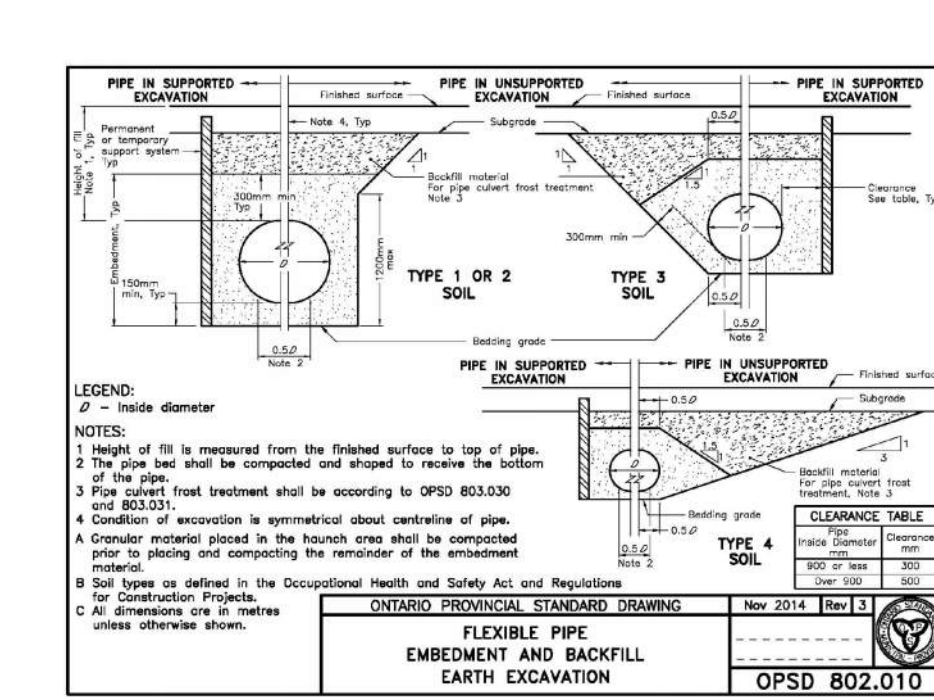
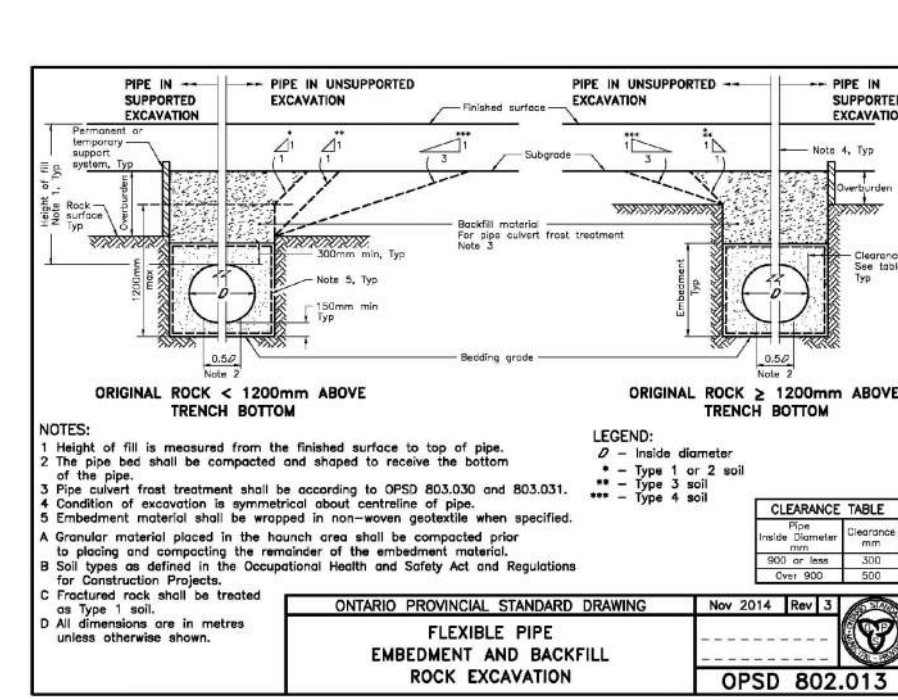
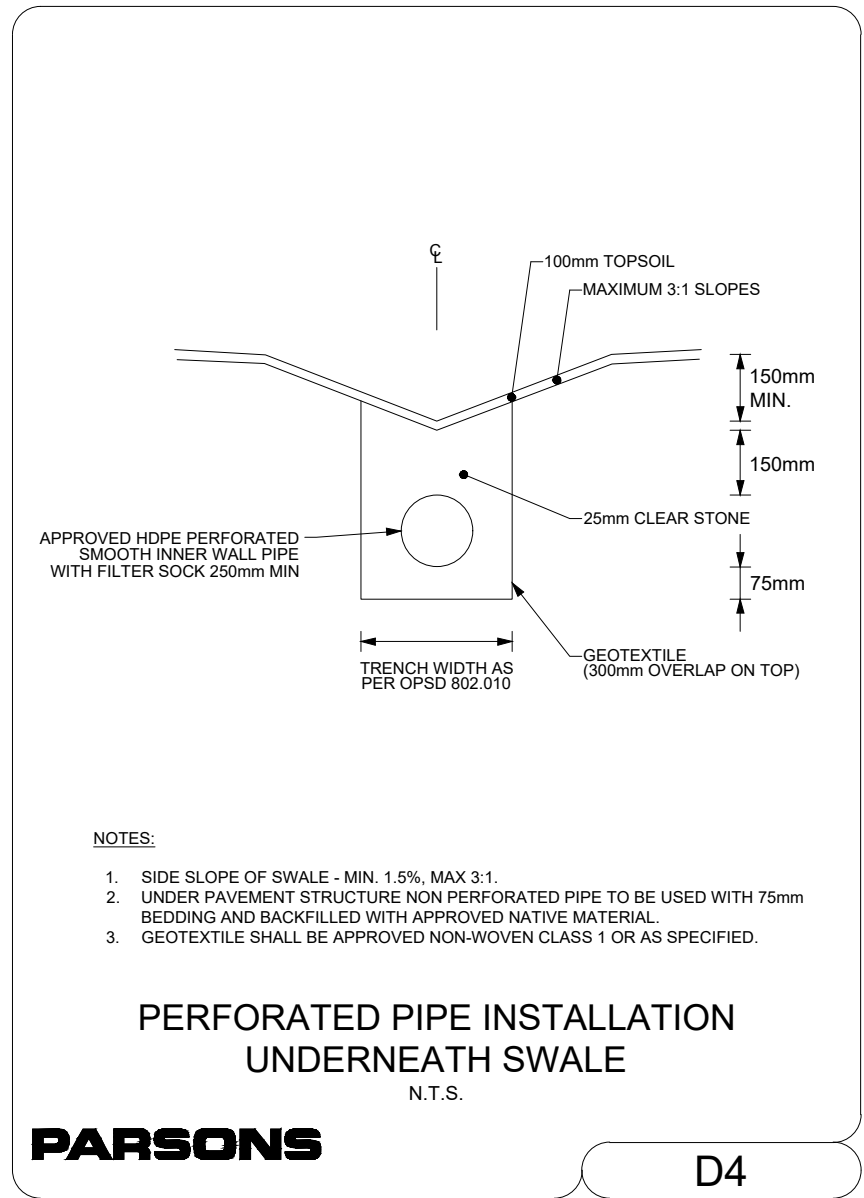
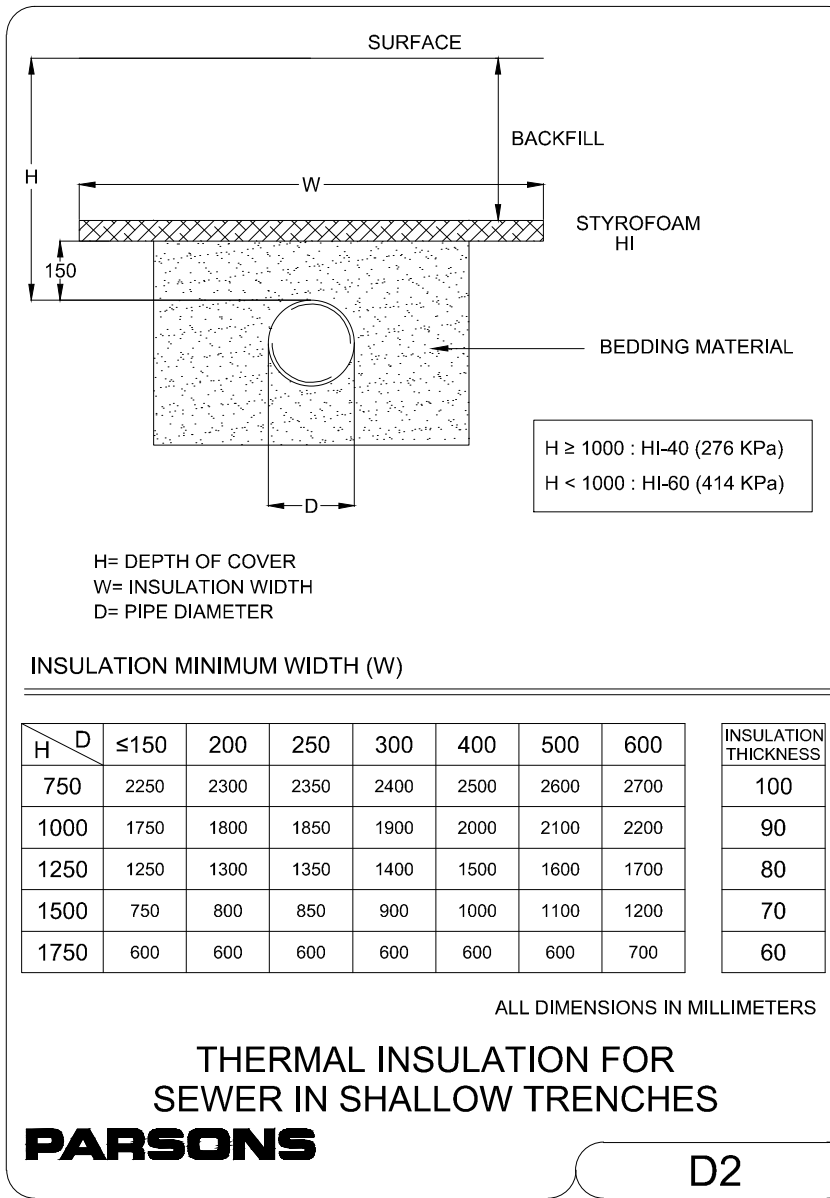
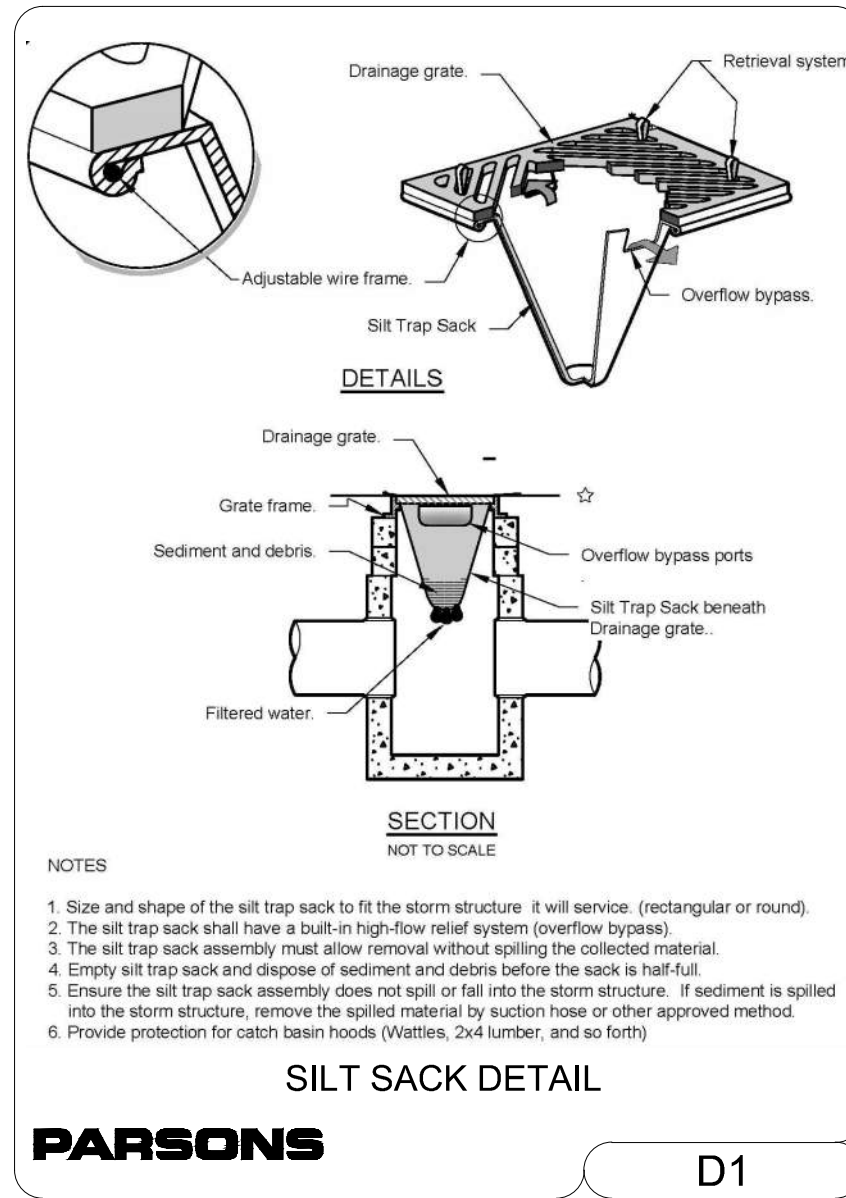
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GRADING DETAIL PLAN

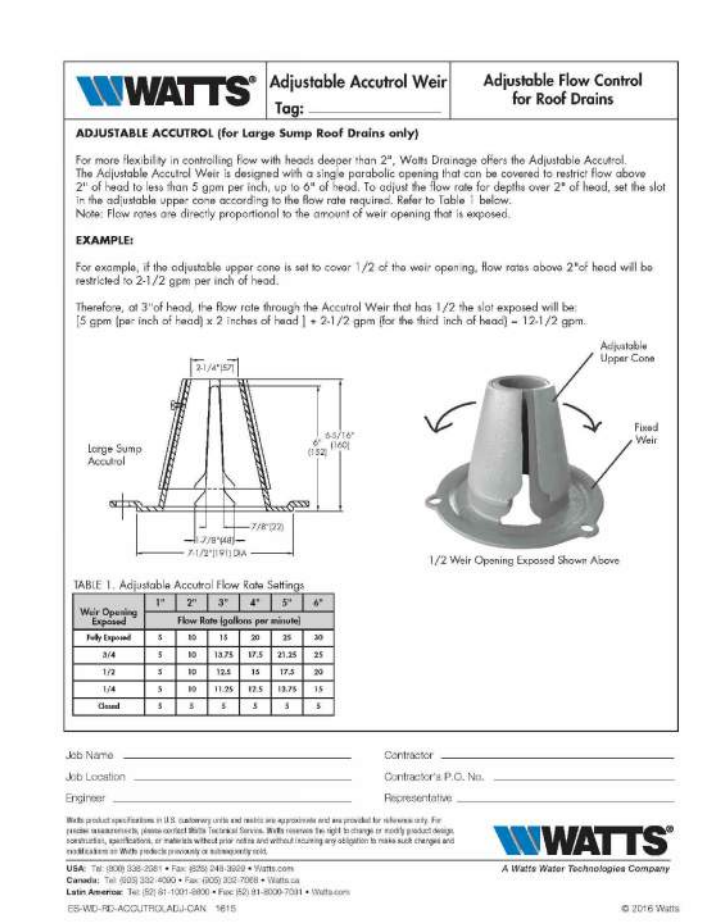
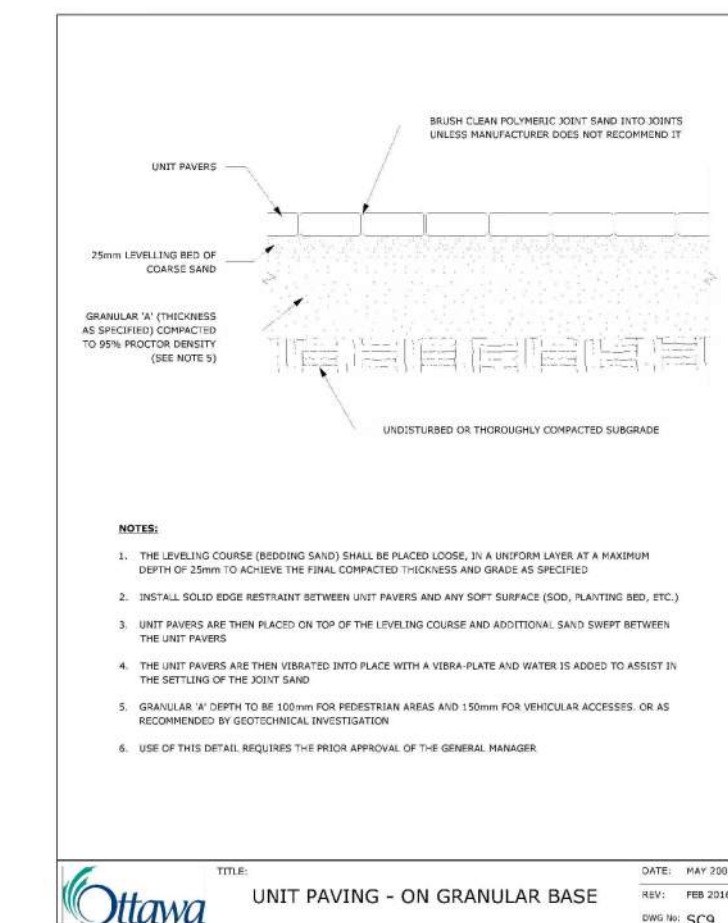
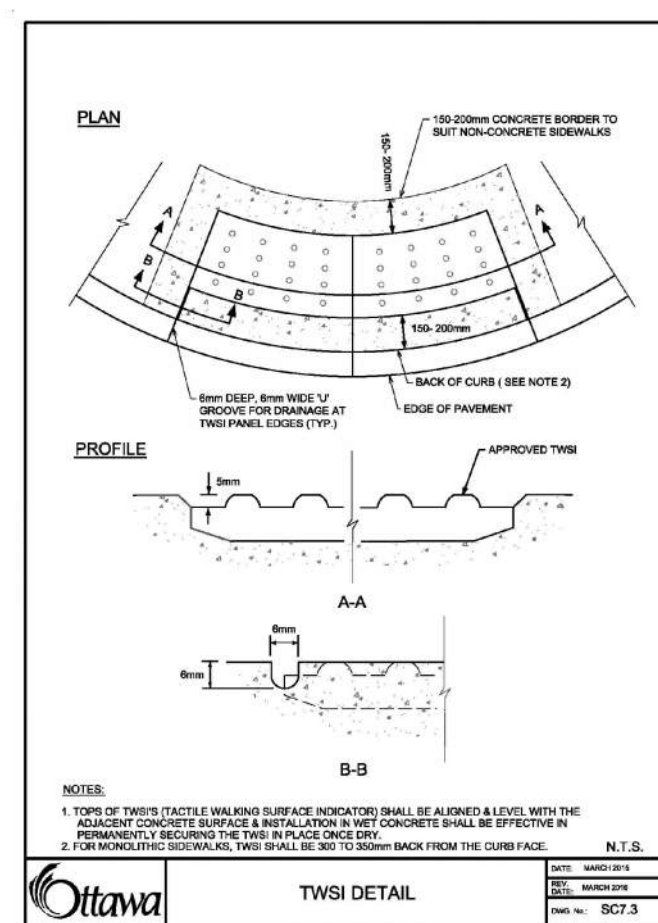
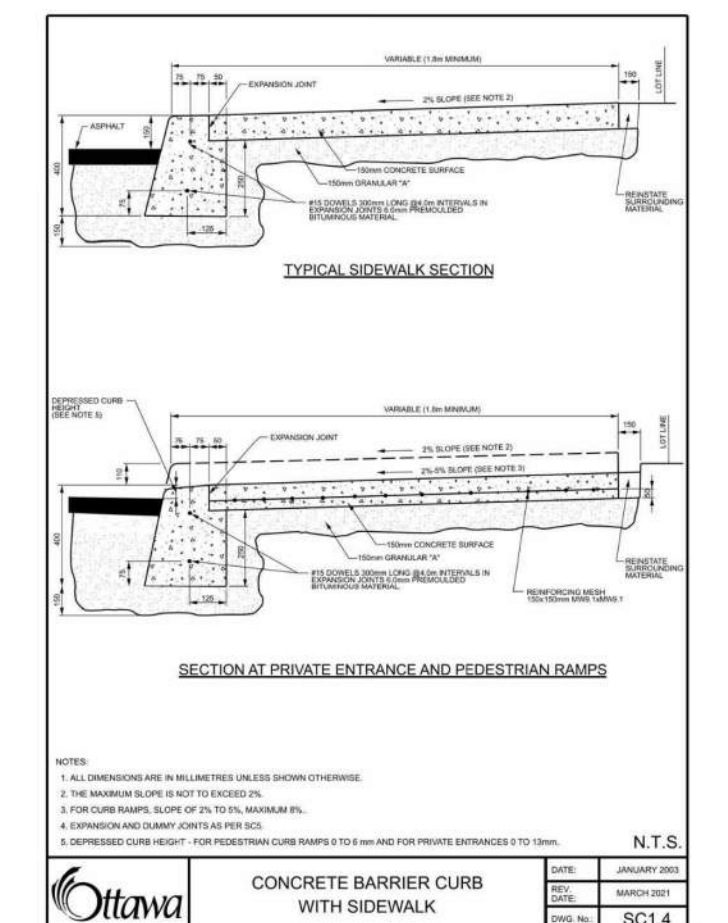
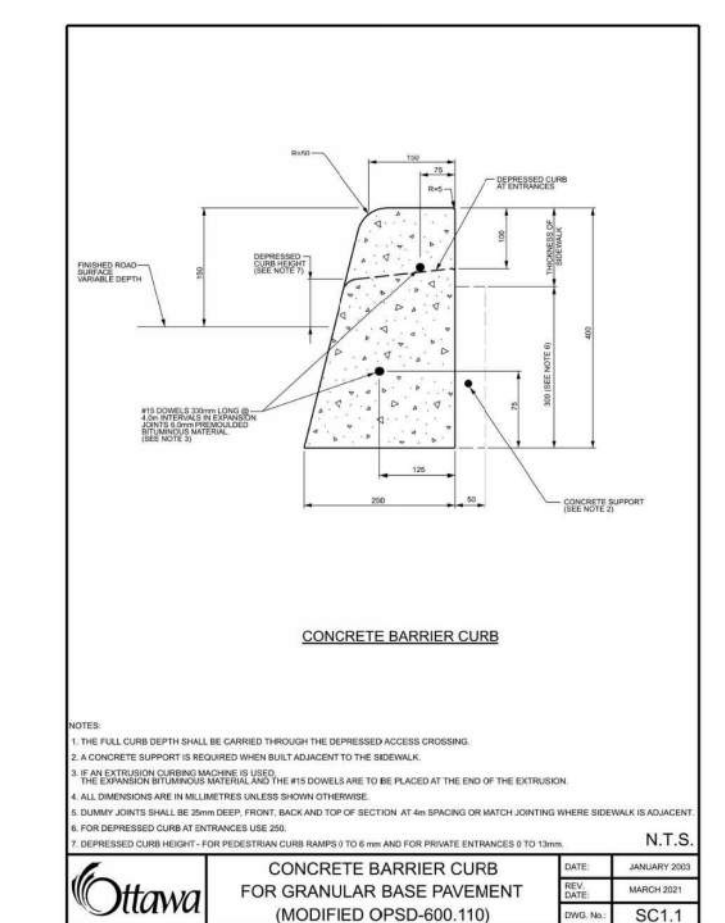
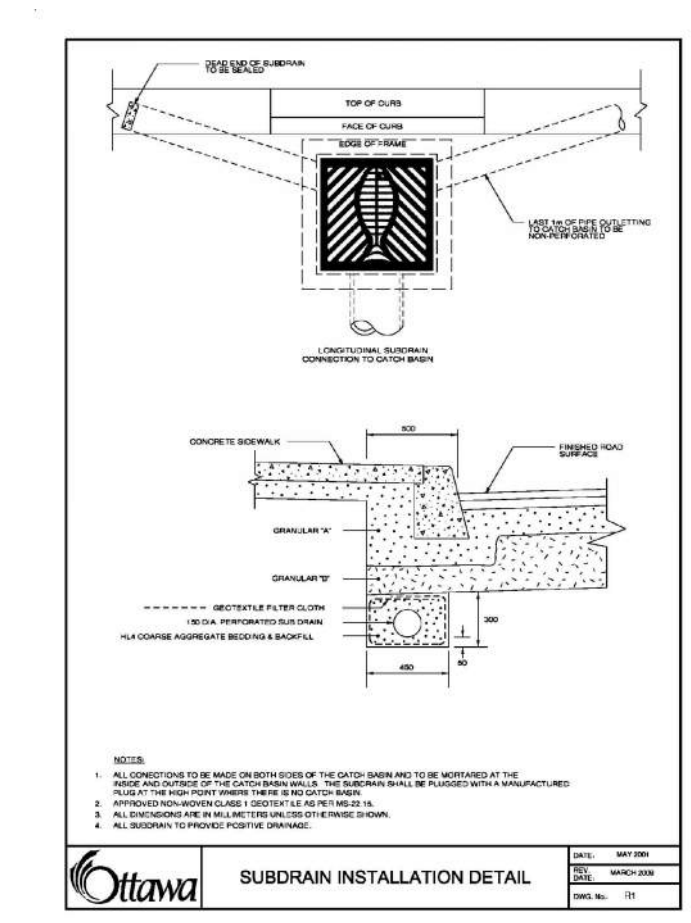
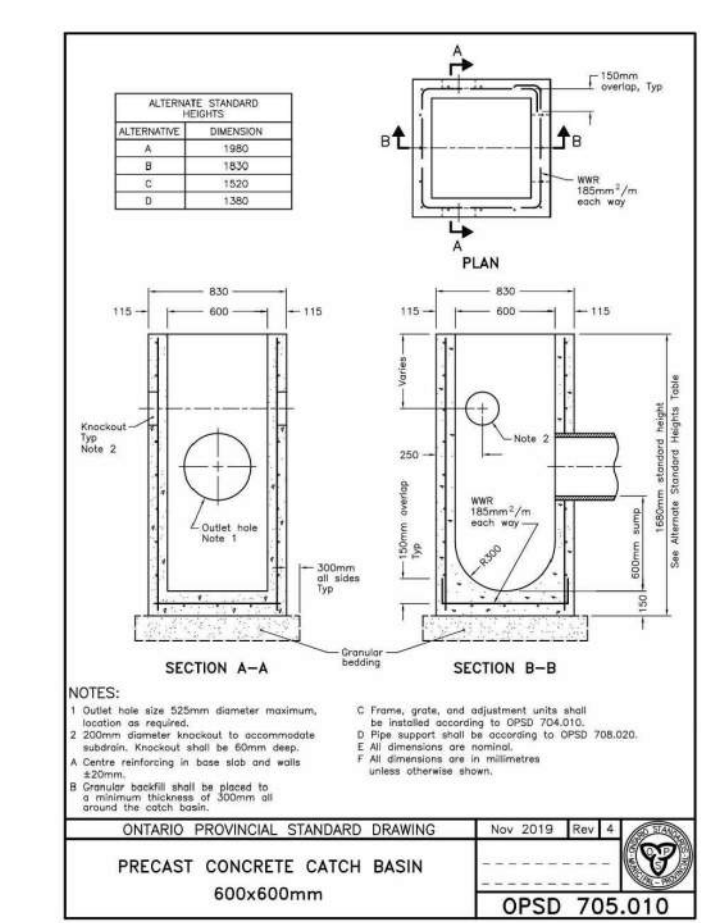
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D07-12-19-0197

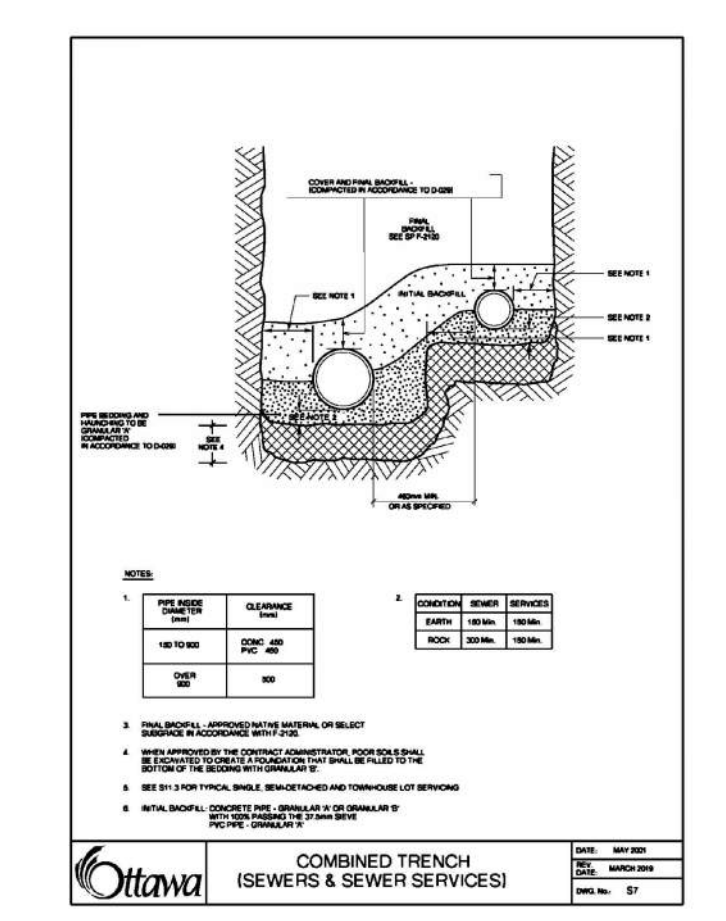
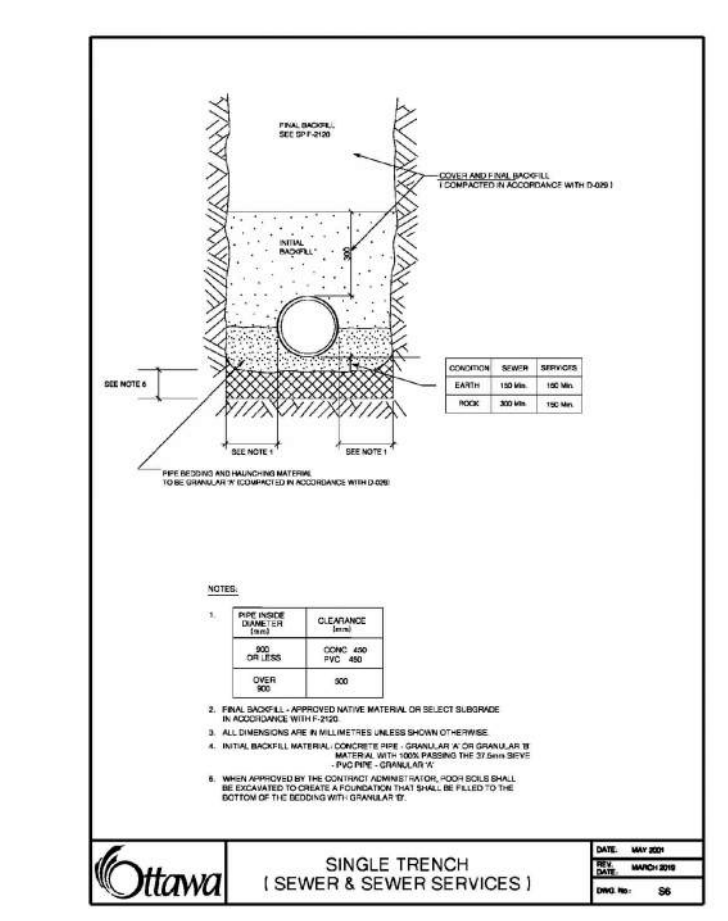
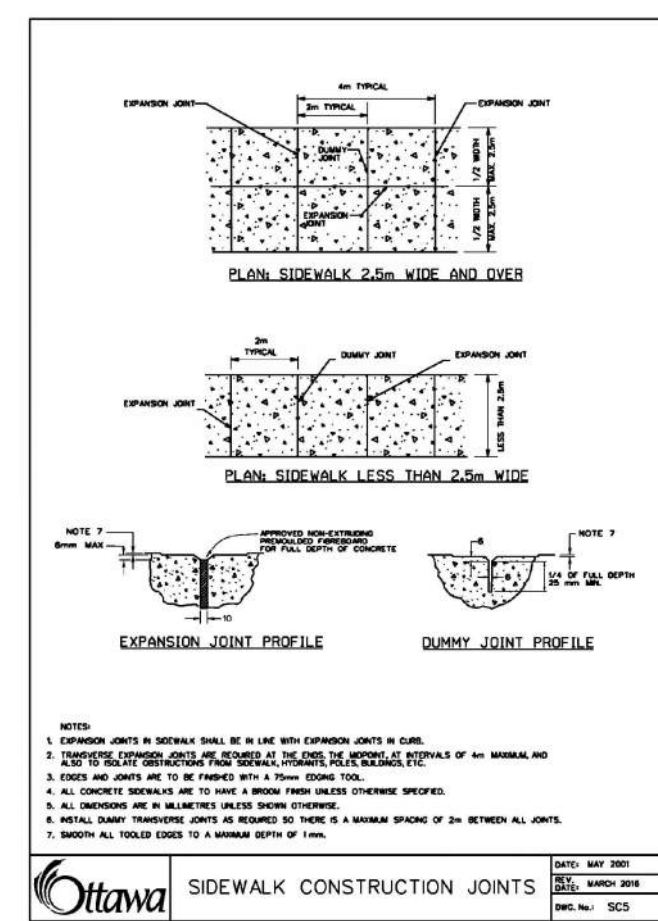
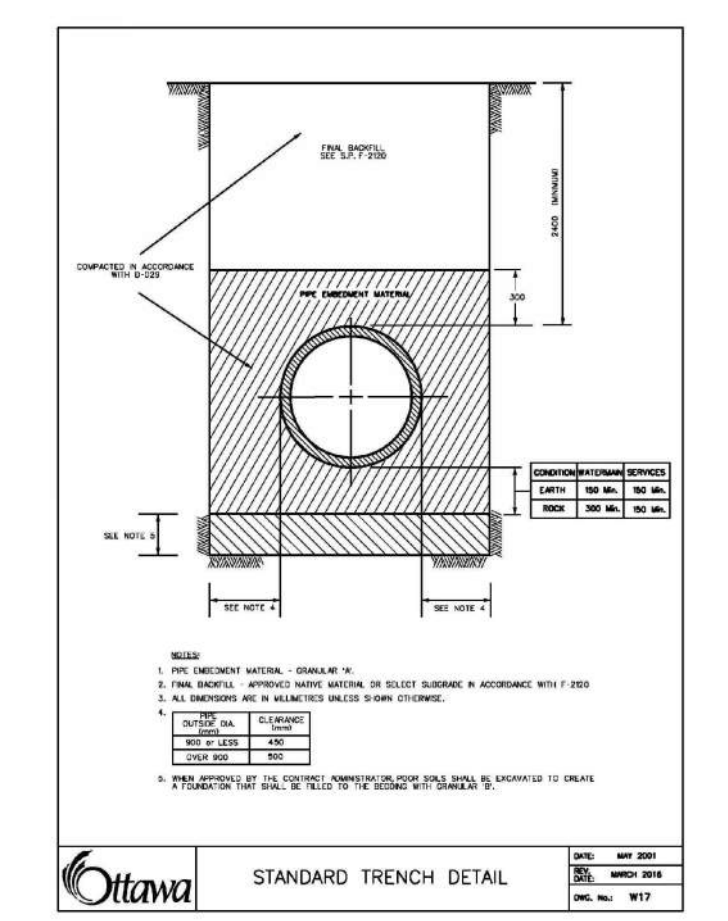
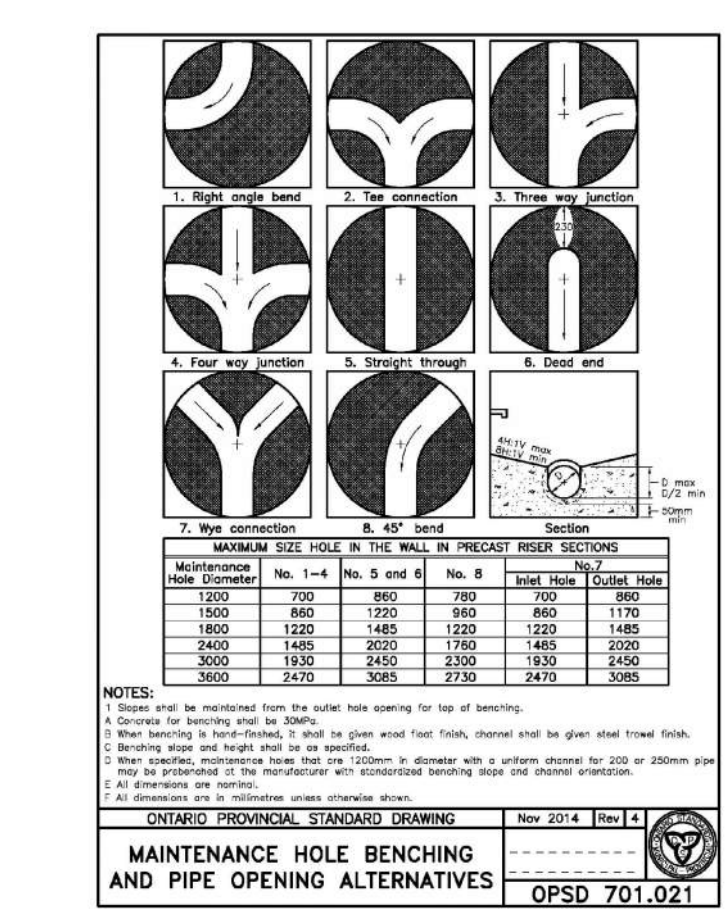
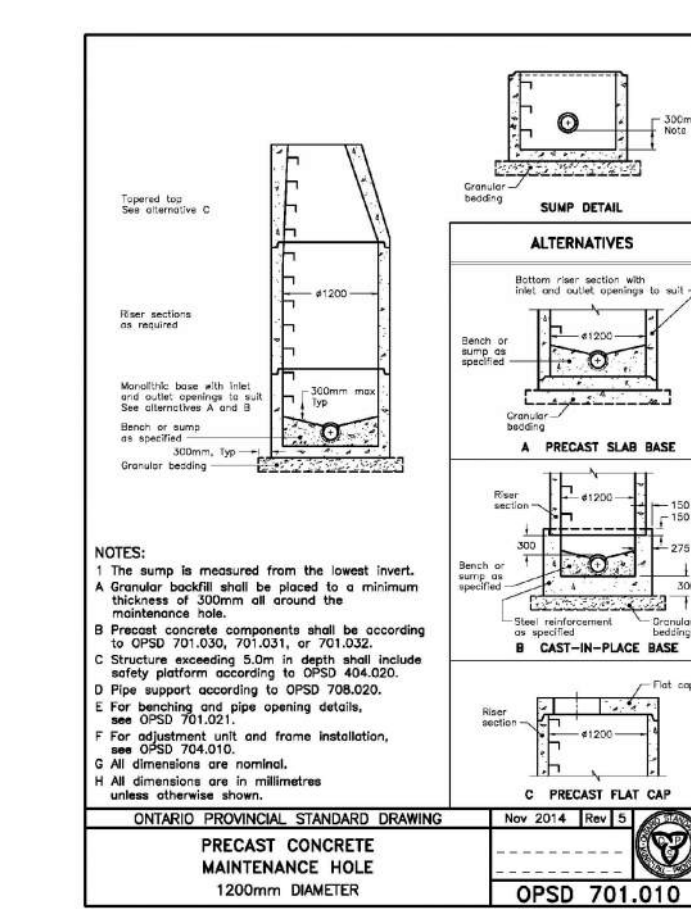
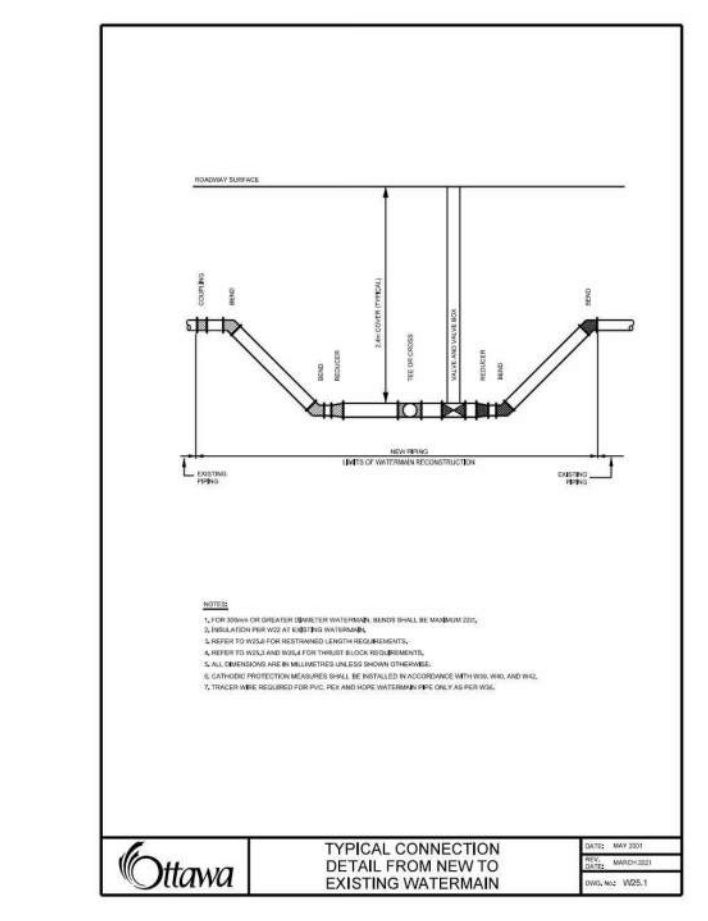
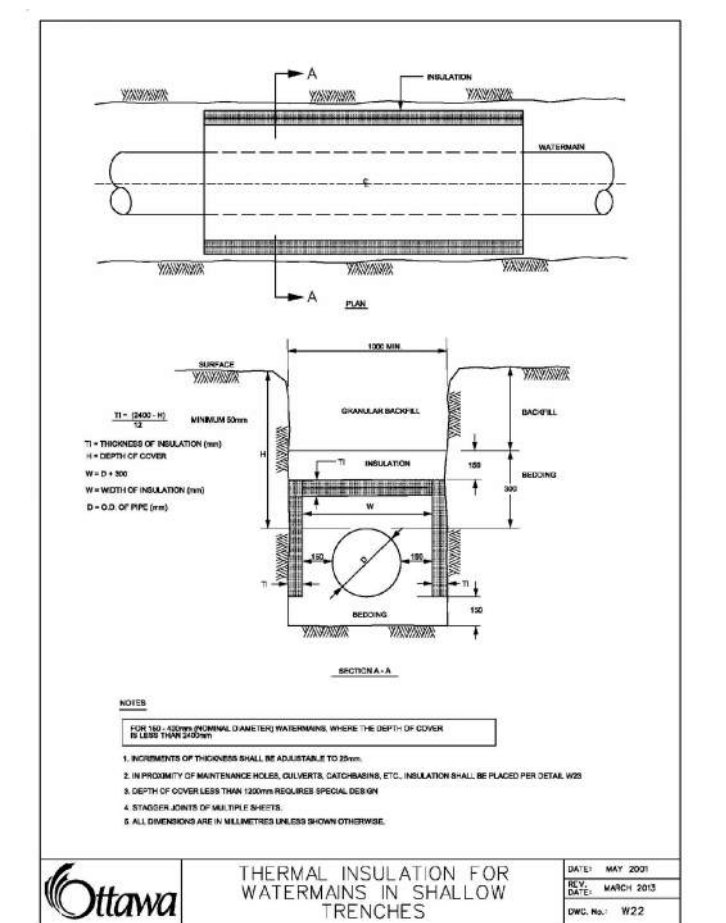
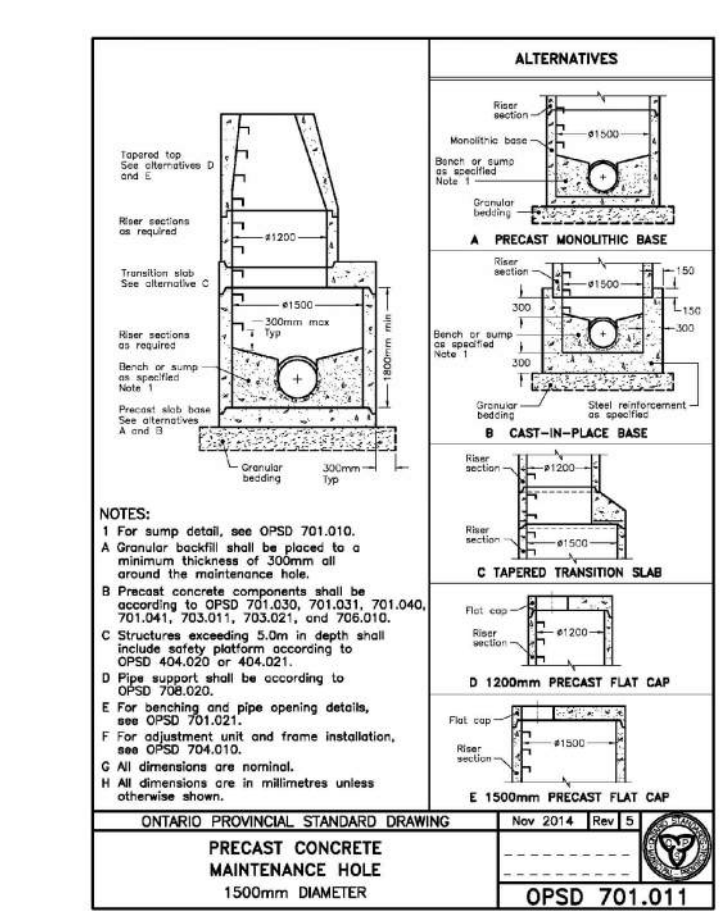
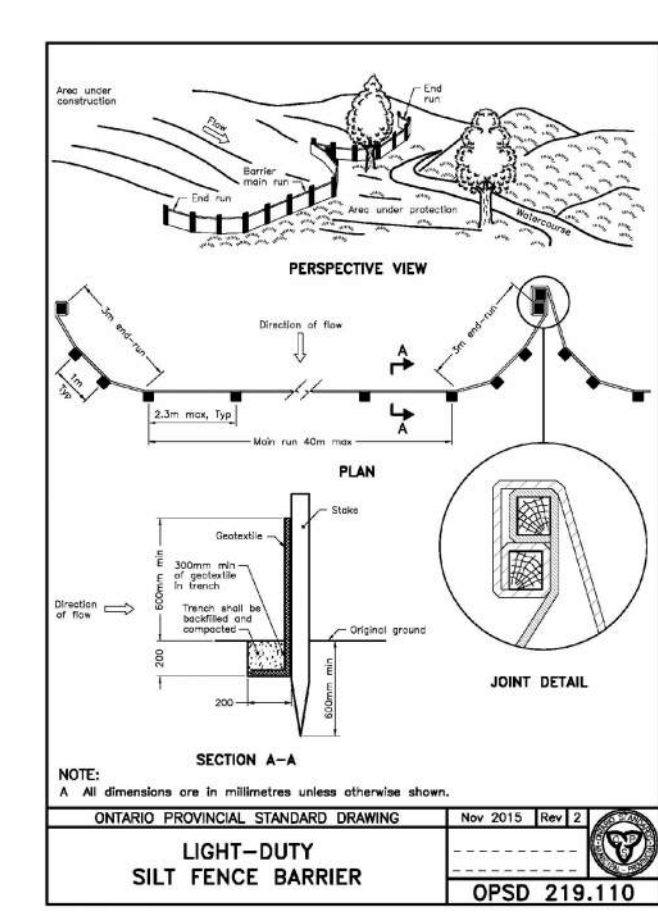
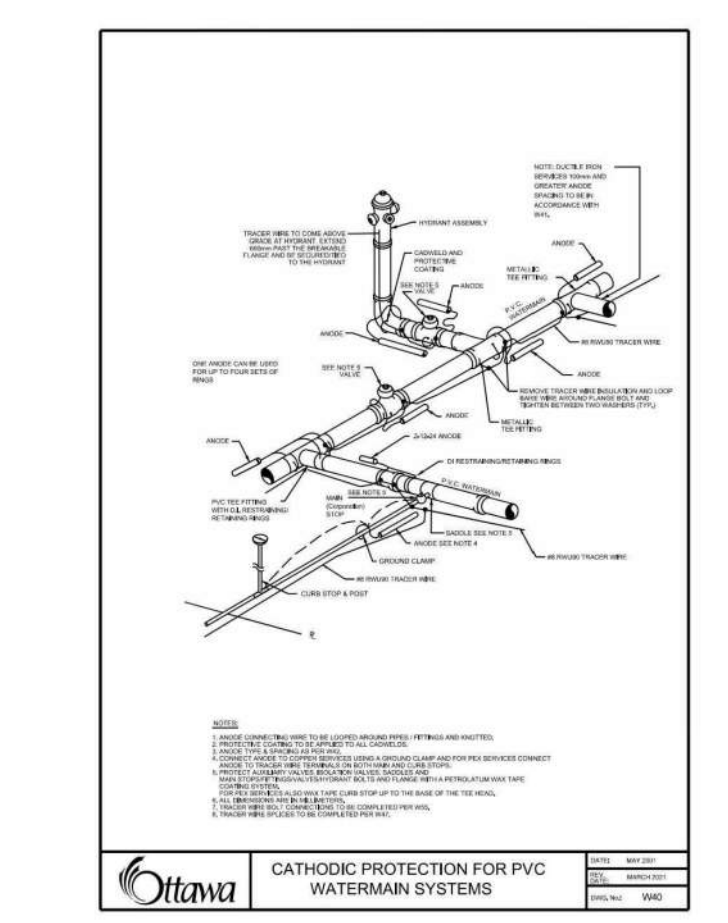
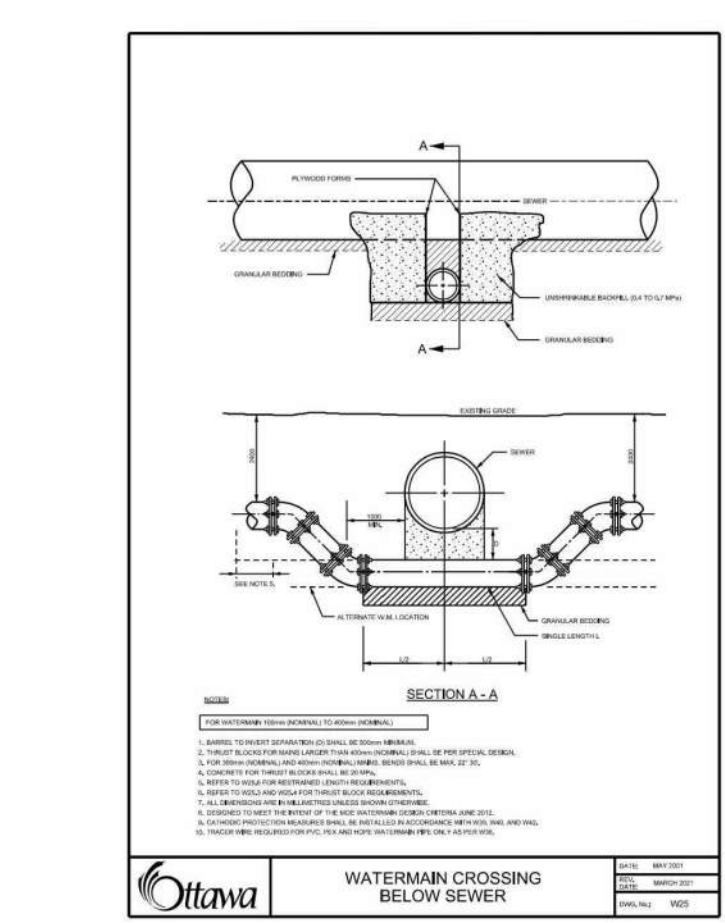
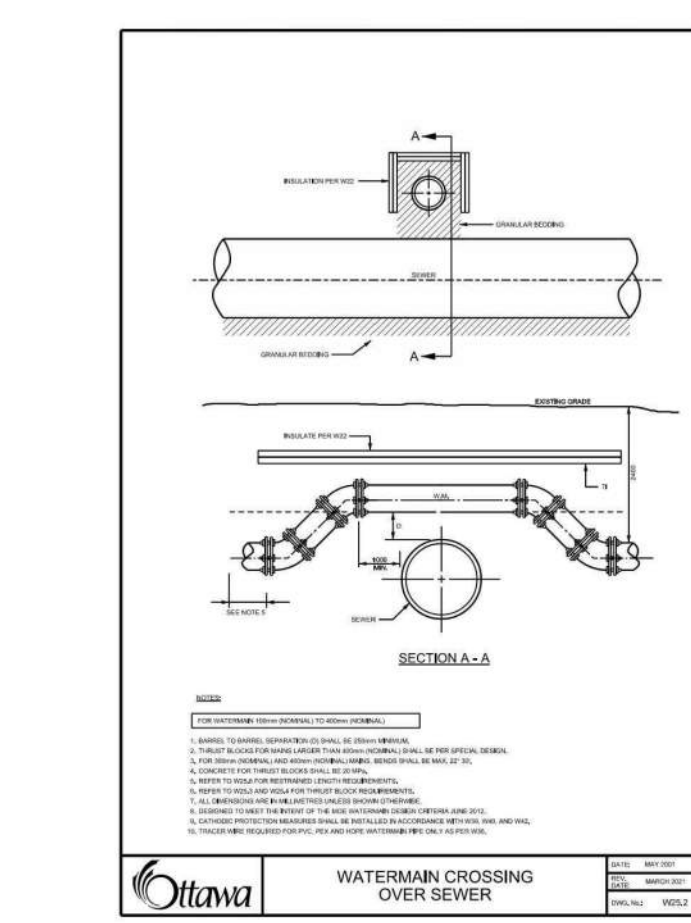
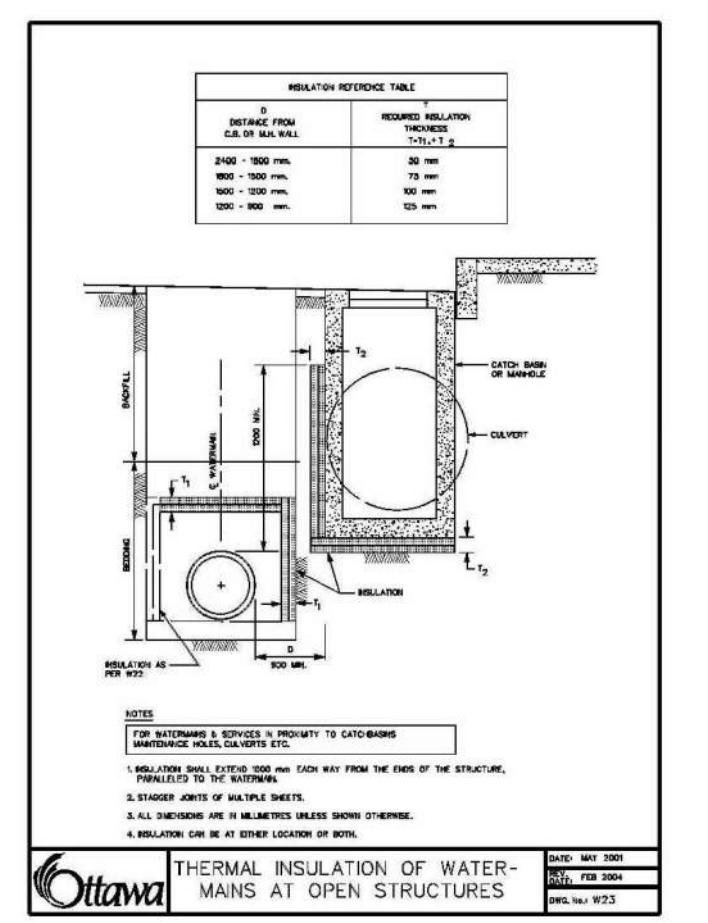


CLV GROUP
485 Bank Street, Suite 200
Ottawa, Ontario
K2P 1Z2



REVISION RECORD

NO.	DESCRIPTION	DATE
1	ISSUED FOR SITE PLAN APPROVAL	2021-05-10
2	RE-ISSUED FOR SITE PLAN APPROVAL	2020-12-18
3	ISSUED FOR SITE PLAN APPROVAL	2019-10-28
4	ISSUED FOR REVIEW	2019-10-01
5	ISSUED FOR COORDINATION	2019-04-30



PARSONS
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project1 studio
Project1 Studio Incorporated
613-253-3636 | info@project1studio.ca

1399 Avenue U
1399 Avenue U
(formerly 530 Tremblay Road)
Ottawa, ON

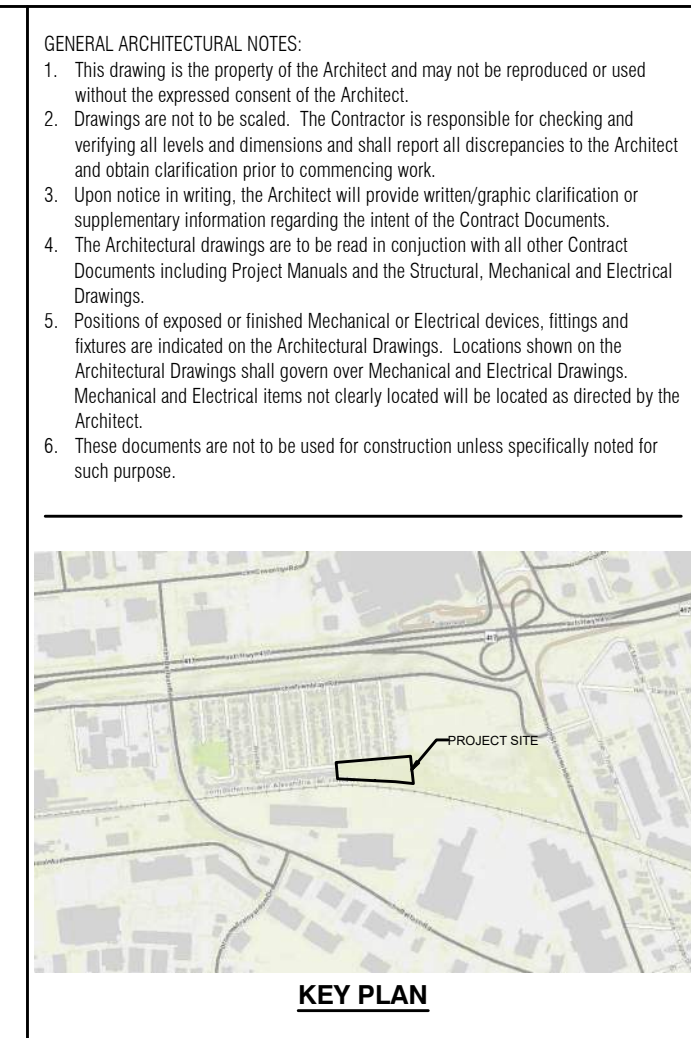
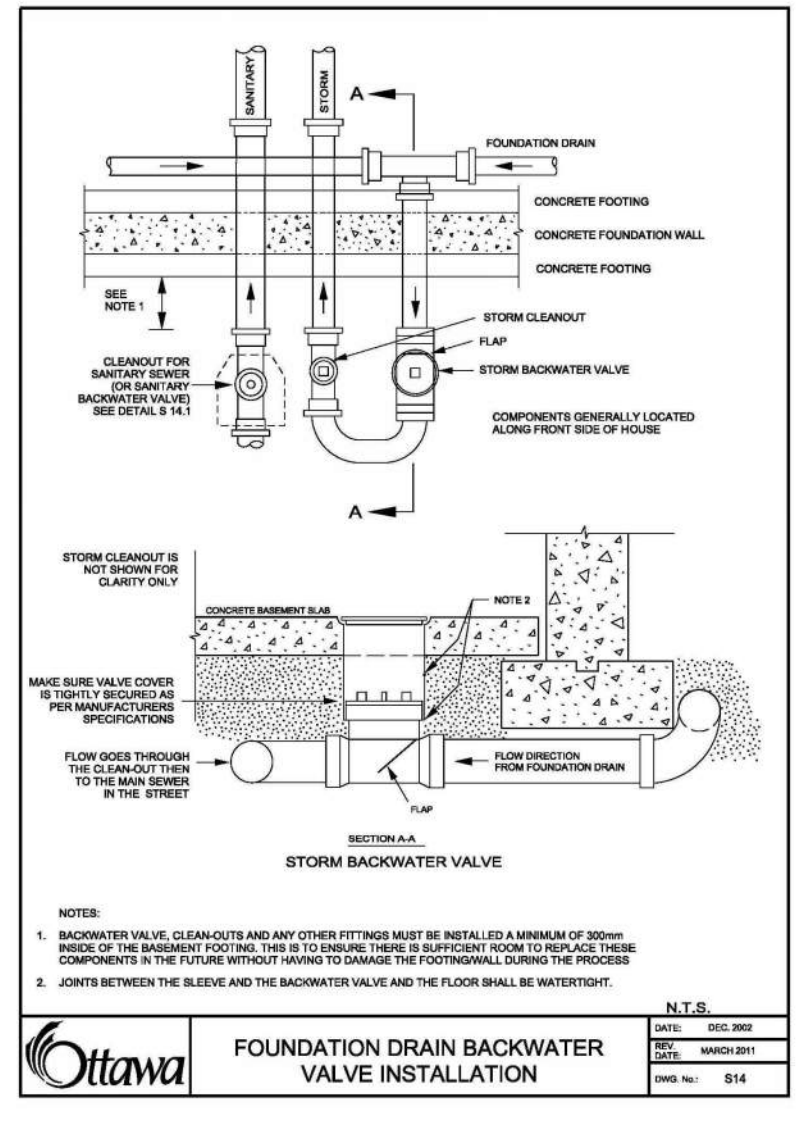
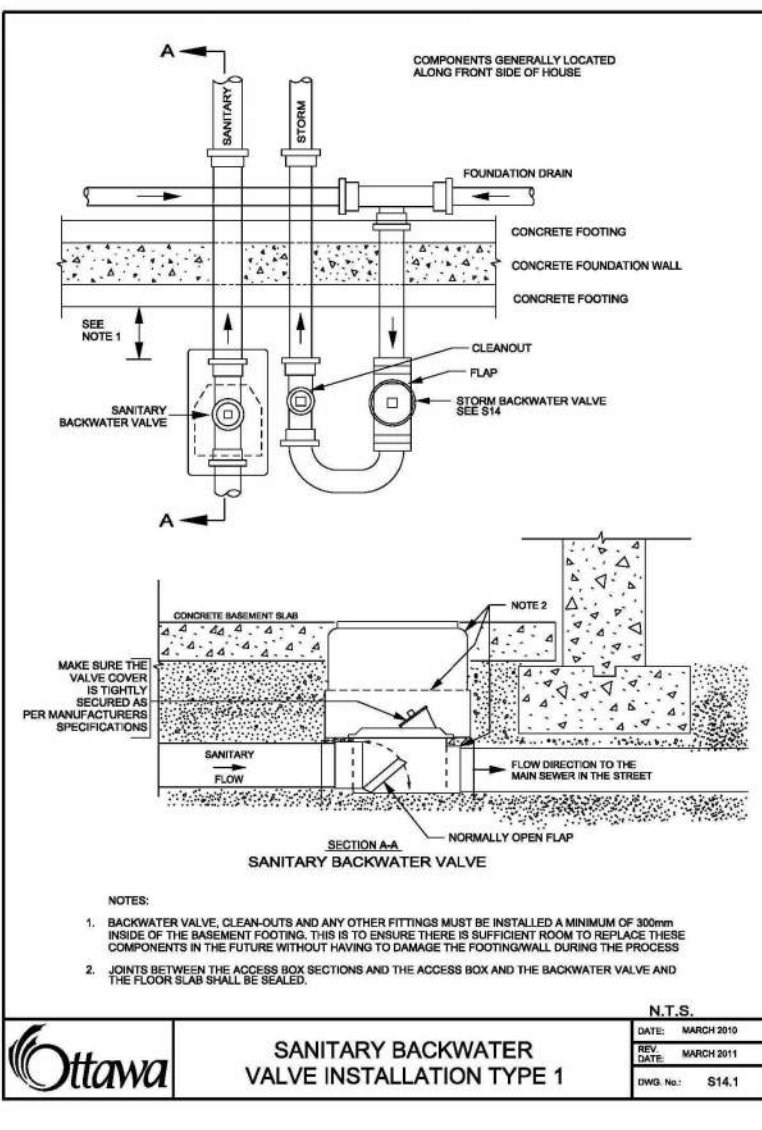
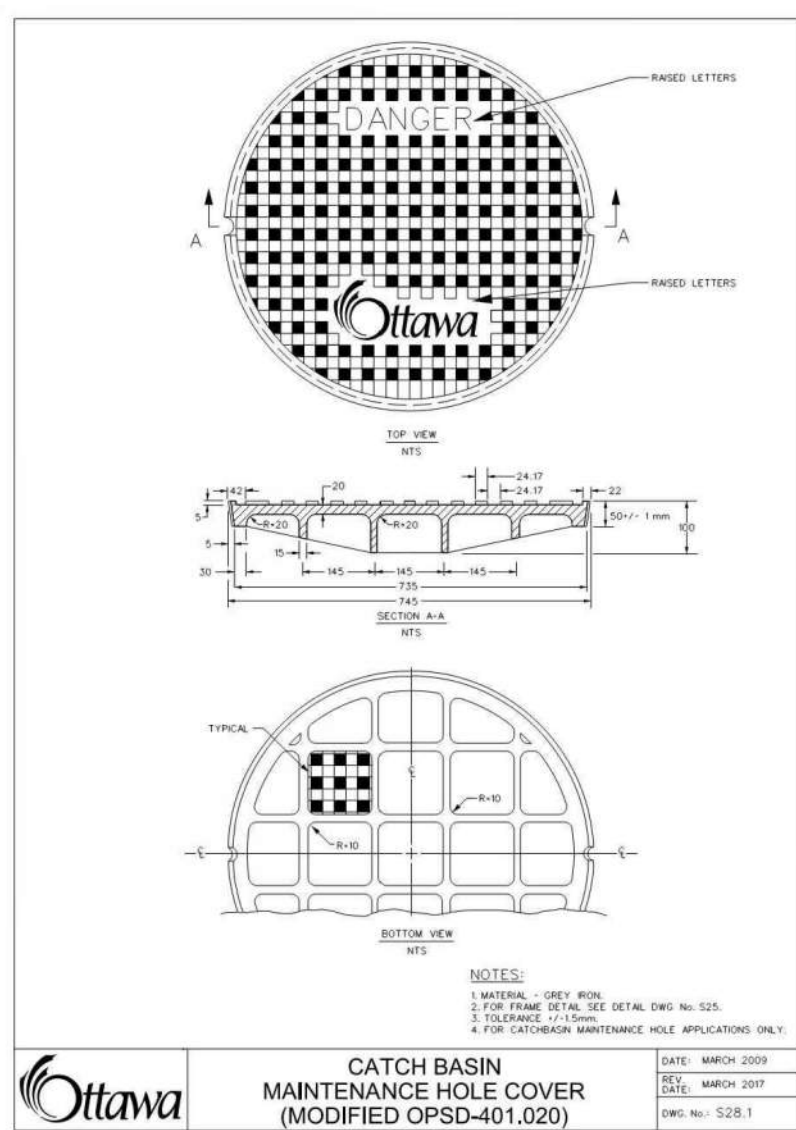
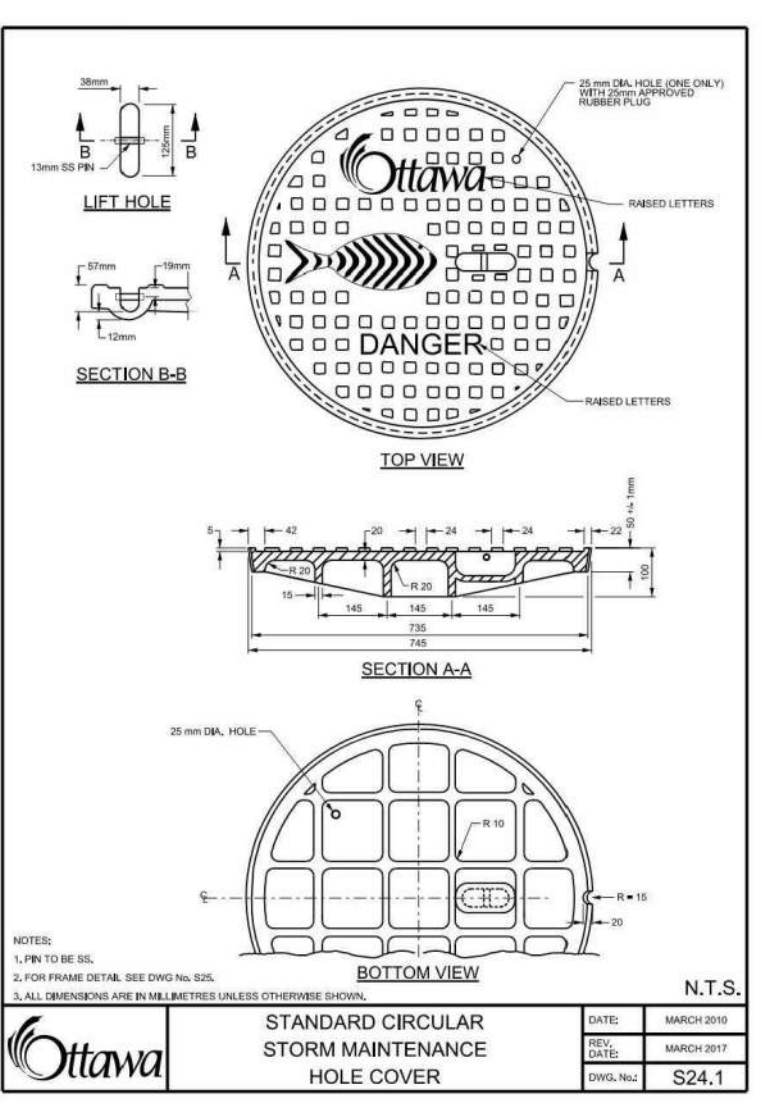
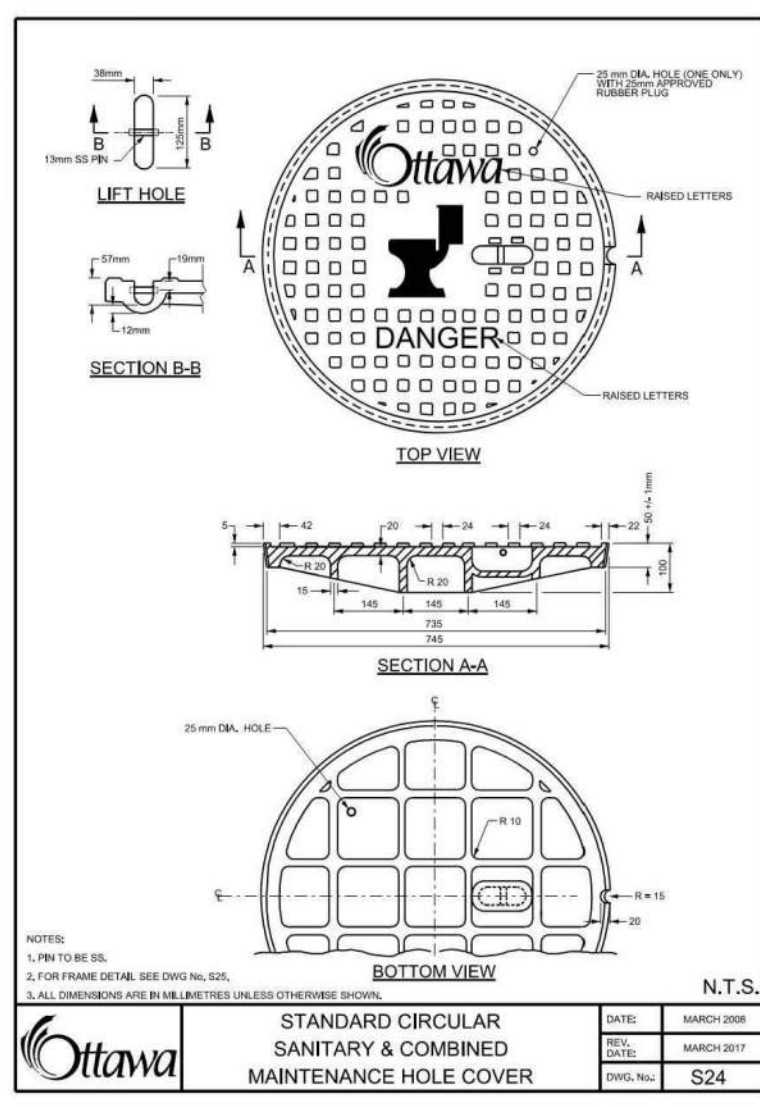
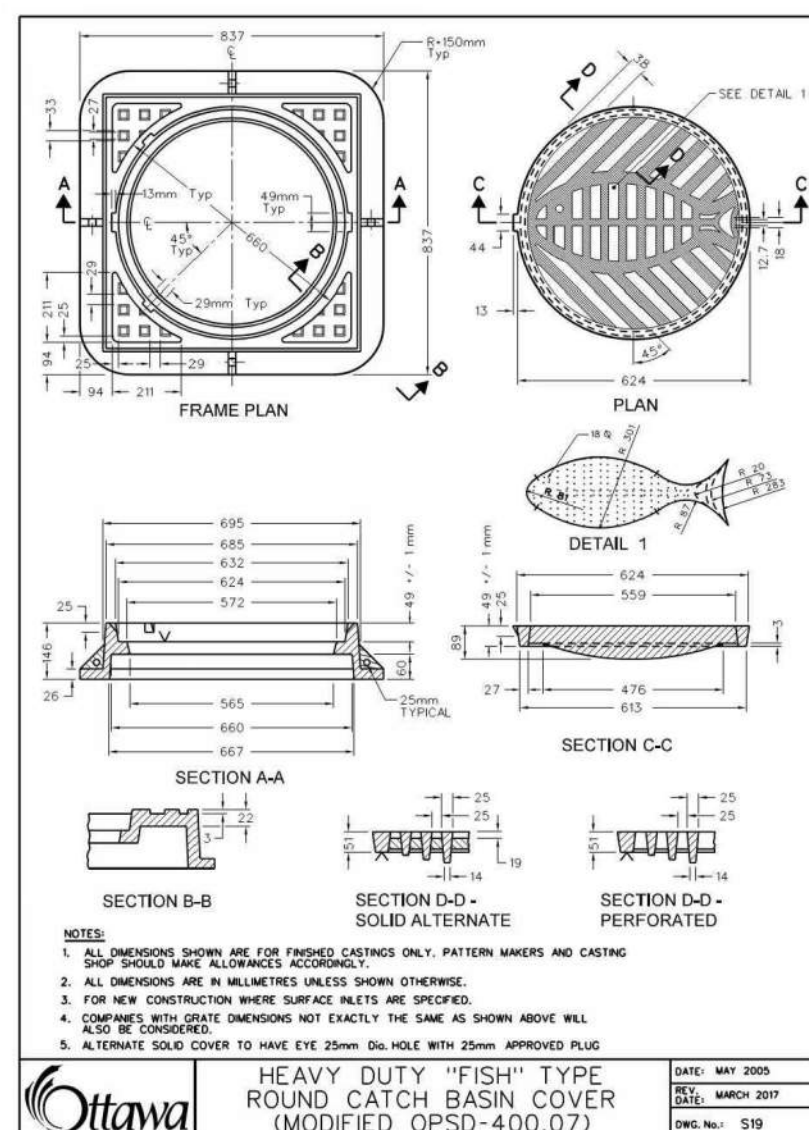
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DRAWN: SS
REVIEWED: MM

CONSTRUCTION DETAILS

C104

#18089

D07-12-19-0197



CLV GROUP
 485 Bank Street, Suite 200
 Ottawa, Ontario
 K2P 1Z2

REVISION RECORD

RE-ISSUED FOR SITE PLAN APPROVAL	2021-05-10
RE-ISSUED FOR SITE PLAN APPROVAL	2020-12-18

ISSUE RECORD



1399 Avenue U

1399 Avenue U
 (formerly 530 Tremblay Road)
 Ottawa, ON

PROJ	SCALE	DRAWN	REVIEWED
477074	N/A	SS	MM

CONSTRUCTION DETAILS

C105

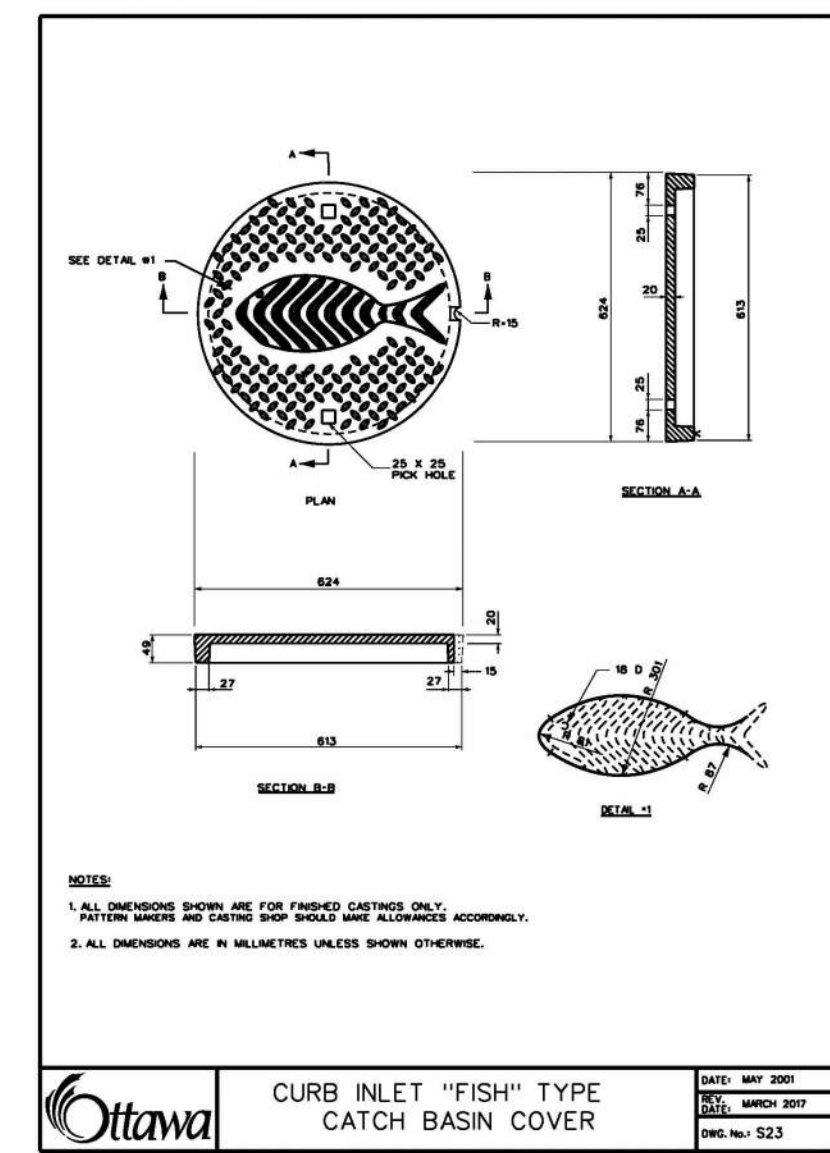
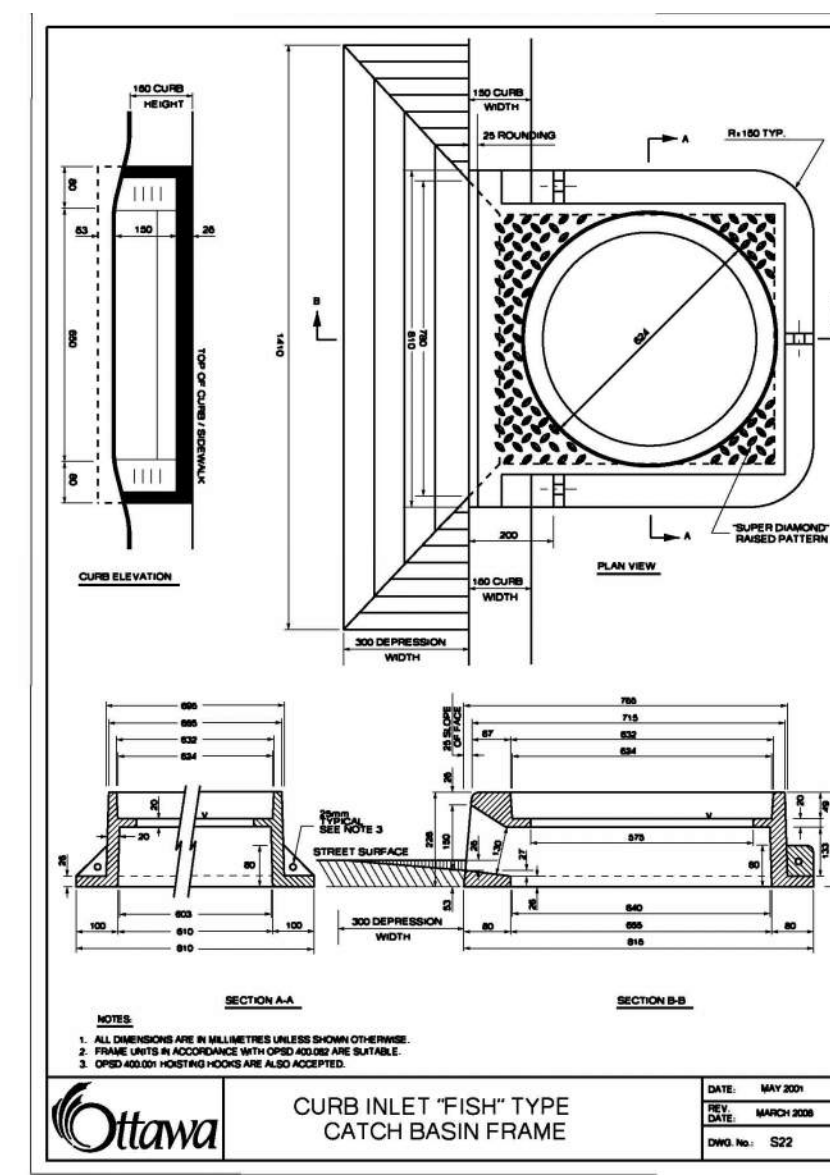
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STATION	SURFACE ELEVATION	WATERMAIN TABLE		NOTES
		W/M DEPTH	TOP OF W/M ELV.	
0+000.0	67.26	EXIST	EXIST	TEE, 200 x 250, CONNECT TO EXISTING W/M
0+002.8	67.37	2.40m	64.97	VALVE AND VALVE BOX
0+005.5	67.45	2.40m	65.05	HORIZ. 45° BEND
0+011.4	67.67	2.40m	65.27	CR-04, REFER TO CROSSING TABLE ON C101
0+034.8	67.97	2.55m	65.42	HORIZ. 45° BEND
0+044.6	68.12	2.45m	65.67	HORIZ. 45° BEND
0+052.0	68.22	2.55m	65.67	TEE, 250 x 150
0+052.0	68.21	2.40m	65.61	OFFSET 1.91m, VALVE AND VALVE BOX
0+052.0	68.26	2.40m	65.66	OFFSET 3.83m, WATER CAP 1.0m FROM BUILDING
0+053.6	68.19	2.54m	65.65	CR-06, REFER TO CROSSING TABLE ON C101
0+067.5	68.01	2.40m	65.61	VALVE AND VALVE BOX
0+075.1	68.20	2.55m	65.65	TEE, 250 X 150
0+075.1	68.23	2.40m	65.68	OFFSET 2.42m, VALVE AND VALVE BOX
0+075.1	68.25	2.41m	65.64	OFFSET 3.94m, WATER CAP 1.0m FROM BUILDING
0+075.1	68.13	2.40m	65.73	OFFSET 23.56m, WATER CAP 1.0m FROM BUILDING
0+075.1	67.99	2.40m	65.59	OFFSET 29.77m, VALVE AND VALVE BOX
0+075.1	67.91	2.40m	65.51	OFFSET 32.69m, FIRE HYDRANT
0+077.7	68.22	2.55m	65.67	CR-09, REFER TO CROSSING TABLE ON C101
0+080.7	68.23	2.55m	65.68	TEE, 250 x 250
0+080.7	68.06	2.40m	65.66	OFFSET 3.25m, CR-11, REFER TO CROSSING TABLE ON C101
0+080.7	68.06	2.40m	65.66	OFFSET 4.67m, VERT. 45° BEND
0+080.7	68.06	2.67m	65.39	OFFSET 4.97m, VERT. 45° BEND
0+080.7	68.21	2.82m	65.39	OFFSET 5.25m, CR-10, REFER TO CROSSING TABLE ON C101
0+080.7	68.22	2.83m	65.39	OFFSET 6.75m, VALVE AND VALVE BOX
0+080.7	68.23	2.84m	65.39	OFFSET 7.49m, VERT. 45° BEND
0+080.7	68.25	3.75m	64.50	OFFSET 8.38m, VERT. 45° BEND
0+080.7	68.90	2.40m	64.50	OFFSET 10.58m, REDUCER, 250 x 150
0+080.7	67.00	2.50m	64.50	OFFSET 11.85m, VERT. 45° BEND
0+080.7	67.12	2.40m	64.72	OFFSET 12.07m, VERT. 45° BEND
0+080.7	67.12	EXIST	EXIST	OFFSET 12.37m, CONNECT TO EXISTING W/M
0+085.4	68.20	2.55m	65.65	VALVE AND VALVE BOX
0+117.9	68.22	2.43m	65.79	CR-12, REFER TO CROSSING TABLE ON C101
0+119.4	68.24	2.42m	65.82	TEE, 250 x 150
0+119.4	68.28	2.40m	65.88	OFFSET 1.41m, VALVE AND VALVE BOX
0+119.4	68.31	2.40m	65.91	OFFSET 2.26m, WATER CAP 1.0m FROM BUILDING
0+120.4	68.27	2.45m	65.82	VALVE AND VALVE BOX
0+121.4	68.31	2.51m	65.80	TEE, 250 x 150
0+121.4	68.33	2.47m	65.86	OFFSET 1.41m, VALVE AND VALVE BOX
0+121.4	68.33	2.41m	65.92	OFFSET 2.26m, WATER CAP 1.0m FROM BUILDING
0+149.0	68.23	2.55m	65.68	TEE, 250 x 250
0+149.0	68.08	2.40m	65.68	OFFSET 1.50m, VALVE AND VALVE BOX
0+149.0	68.11	2.40m	65.71	OFFSET 3.56m, VERT. 45° BEND
0+149.0	68.12	1.21m	66.91	OFFSET 4.75m, VERT. 45° BEND
0+149.0	68.12	1.21m	66.91	OFFSET 5.25m, CR-19, REFER TO CROSSING TABLE ON C101
0+149.0	68.12	1.21m	66.91	OFFSET 5.75m, VERT. 45° BEND
0+149.0	68.13	2.40m	65.73	OFFSET 6.94m, VERT. 45° BEND
0+149.0	68.07	2.40m	65.67	OFFSET 10.30m, WATER CAP
0+150.7	68.04	2.40m	65.64	VERT. 45° BEND
0+151.3	68.02	1.73m	66.29	VERT. 45° BEND
0+151.9	68.01	1.72m	66.29	CR-16, REFER TO CROSSING TABLE ON C101
0+152.5	68.01	1.72m	66.29	VERT. 45° BEND
0+153.4	68.00	2.44m	65.56	VERT. 45° BEND
0+154.0	68.00	2.44m	65.56	CR-15, REFER TO CROSSING TABLE ON C101
0+155.2	68.01	2.40m	65.61	VALVE AND VALVE BOX
0+156.4	68.05	2.40m	65.65	HORIZ. 45° BEND
0+159.1	68.07	2.40m	65.67	HORIZ. 45° BEND
0+159.6	68.05	2.40m	65.65	CR-17, REFER TO CROSSING TABLE ON C101
0+160.5	68.03	2.40m	65.63	REDUCER, 250 x 150
0+162.1	68.02	EXIST	EXIST	CONNECT TO EXISTING W/M

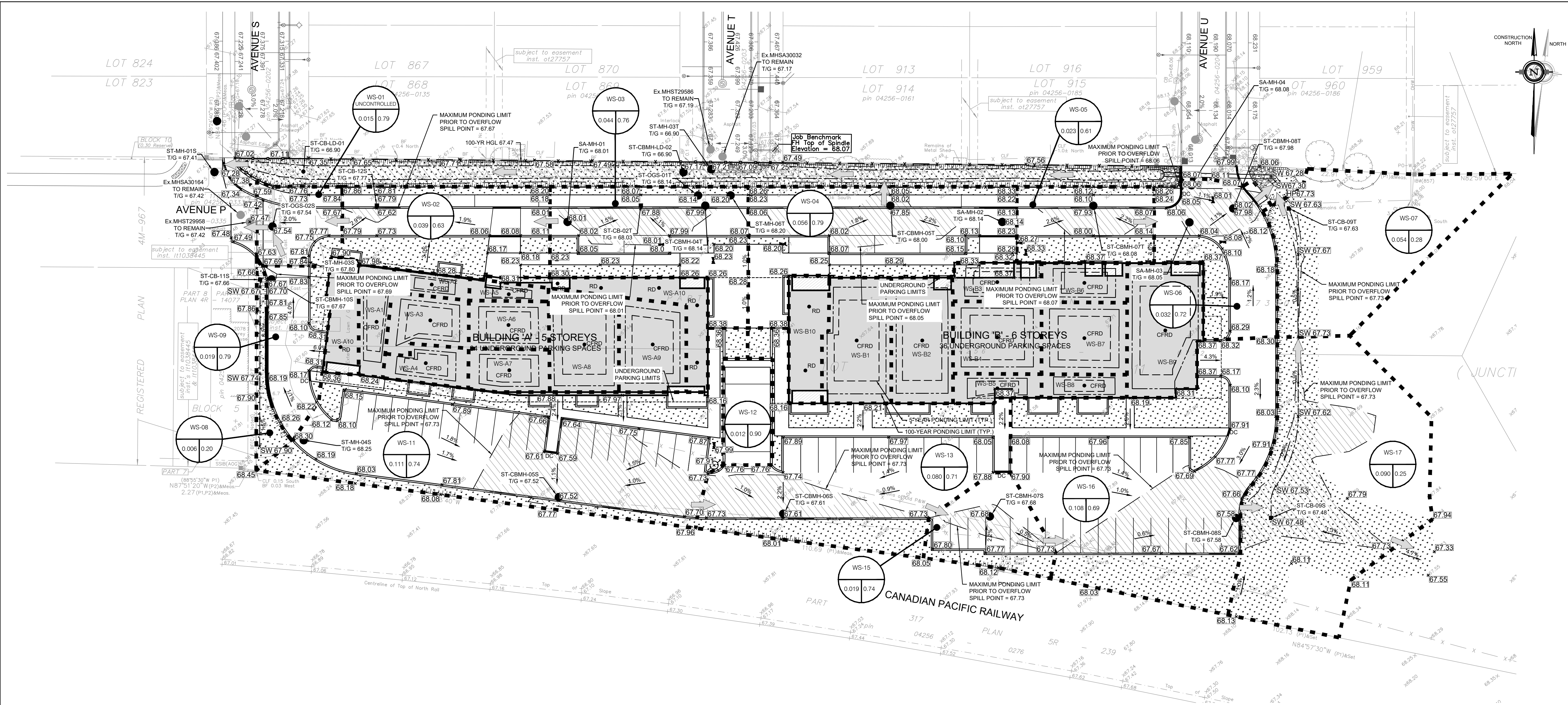
STORM MAINTENANCE HOLE DATA						
STRUCTURE	COVER	SIZE	STANDARD	ELEVATION		
				T/G	INVERT	
Ex. MHST29908	EXIST	EXIST	EXIST	67.25	N 65.86 (375mm) SW 65.71 (300mm) SE 65.71 (200mm)	
ST-MH-00S	S24.1	1200mm	OPSD 701.010	67.23	S 65.75 (300mm) NE 65.72 (300mm)	
ST-MH-01S	S24.1	1200mm	OPSD 701.010	67.41	E 65.81 (300mm) N 65.78 (300mm) S 65.93 (600mm)	
ST-MH-03S	S24.1	1500mm	OPSD 701.011	67.80	NE 66.63 (250mm) SW 65.96 (300mm) NW 65.90 (300mm)	
ST-CB-12S	S22/S23	600x600mm	OPSD 705.010	67.77	SW 66.69 (250mm)	
ST-CB-11S	S19	600x600mm	OPSD 705.010	67.66	E 66.04 (250mm)	
ST-CBMH-10S	S28.1	1200mm	OPSD 701.010	67.67	W 66.03 (250mm) E 65.98 (300mm)	
ST-MH-04S	S24.1	1500mm	OPSD 701.011	68.25	E 66.05 (525mm) N 65.99 (600mm)	
ST-CBMH-05S	S28.1	1200mm	OPSD 701.010	67.52	E 66.16 (450mm) W 66.13 (525mm)	
ST-CBMH-06S	S28.1	1200mm	OPSD 701.010	67.61	E 66.26 (450mm) N 66.26 (300mm) W 66.23 (450mm)	
ST-CBMH-07S	S28.1	1200mm	OPSD 701.010	67.68	E 66.35 (250mm) W 66.32 (450mm)	
ST-CBMH-08S	S28.1	1200mm	OPSD 701.010	67.58	E 66.54 (250mm) W 66.51 (250mm)	
ST-CB-09S	S19	600x600mm	OPSD 705.010	67.48	W 66.56 (250mm)	
Ex. MHST29586	EXIST	EXIST	EXIST	67.19	N 65.64 (375mm) S 65.67 (300mm) SW 65.67 (250mm)	
ST-CB-LD-01	S19	600x600mm	OPSD 705.010	66.90	E 65.86 (250mm)	
ST-CBMH-LD-02	S28.1	1200mm	OPSD 701.010	66.90	W 65.72 (250mm) NE 65.69 (250mm)	
ST-MH-03T	S24.1	1200mm	OPSD 701.010	66.90	SE 65.71 (200mm) S 65.71 (300mm) N 65.68 (300mm)	
ST-MH-06T	S24.1	1200mm	OPSD 701.010	68.20	S 66.93 (200mm) NW 65.78 (200mm)	
ST-CB-02T	S22/S23	600x600mm	OPSD 705.010	68.03	E 65.85 (375mm)	
ST-CBMH-04T	S28	1200mm	OPSD 701.010	68.14	E 65.94 (375mm) W 65.92 (250mm) NW 65.77 (300mm)	
ST-CBMH-05T	S28	1200mm	OPSD 701.010	68.00	E 65.94 (375mm) W 65.92 (250mm) W 66.02 (375mm)	
ST-CBMH-07T	S28	1200mm	OPSD 701.010	68.08	E 66.14 (250mm) SE 66.14 (300mm) W 66.11 (250mm)	
ST-CBMH-08T	S28.1	1200mm	OPSD 701.010	67.98	E 66.14 (250mm) SE 66.14 (300mm) W 66.11 (250mm)	
ST-CB-09T	S19	600x600mm	OPSD 705.010	67.83	W 66.18 (250mm)	

SANITARY MAINTENANCE HOLE DATA						
STRUCTURE	COVER	SIZE	STANDARD	ELEVATION		
				T/G	INVERT	
SA-MH-01	S24	1200mm	OPSD 701.010	68.01	S 66.62 (150mm) E 66.56 (150mm)	
SA-MH-02	S24	1200mm	OPSD 701.010	68.14	W 65.92 (150mm) S 66.30 (150mm) E 65.89 (150mm)	
SA-MH-03	S24	1200mm	OPSD 701.010	68.05	W 65.61 (150mm) E 65.61 (150mm) N 65.61 (150mm)	
SA-MH-04 MONITORING MH	S24	1200mm	OPSD 701.010	68.08	N 65.57 (150mm) S 65.57 (150mm)	
Ex. MHA30029	EXIST	EXIST	EXIST	68.10	N 65.52 (150mm) S 65.52 (150mm)	

SANITARY SEWER DATA								
LOCATION	FROM	TO	DIAMETER	MATERIAL	CLASS	LENGTH	INVERT ELEVATIONS	
							UPSTREAM	DOWNSTREAM
CAP	SA-MH-01	SA-MH-02	150mm	PVC	SDR-35	7.2m	66.69	66.62
SA-MH-01	SA-MH-02	SA-MH-03	150mm	PVC	SDR-35	64.3m	66.56	65.92
CAP	SA-MH-02	SA-MH-03	150mm	PVC	SDR-35	5.4m	66.35	66.30
SA-MH-02	SA-MH-03	SA-MH-04	150mm	PVC	SDR-35	27.7m	65.89	65.61
CAP	SA-MH-03	SA-MH-04	150mm	PVC	SDR-35	16.2m	65.77	65.61
SA-MH-03	SA-MH-04	SA-MH-04	150mm	PVC	SDR-35	5.5m	65.61	65.57
SA-MH-04	Ex. MHA30029	SA-MH-04	150mm	PVC	SDR-35	6.8m	65.57	65.52

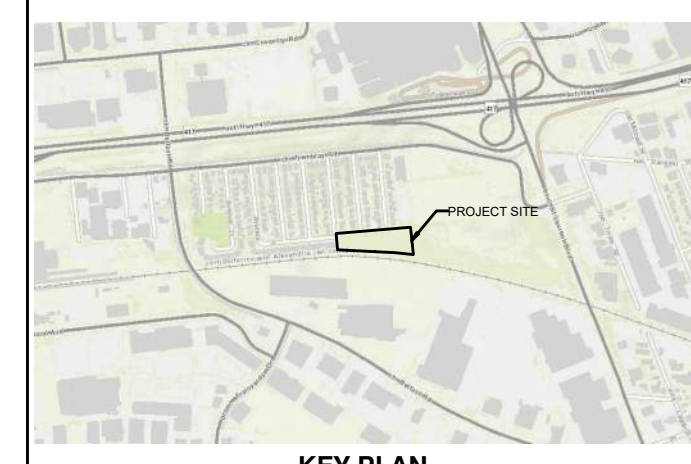


STORM SEWER DATA								
LOCATION	FROM	TO	DIAMETER	MATERIAL	CLASS	LENGTH	INVERT ELEVATIONS	
							UPSTREAM	DOWNSTREAM
BUILDING A CAP	Ex. MHST29908	ST-MH-00S	200mm	PVC	SDR-35	26.0m	65.97	65.71
ST-MH-00S	Ex. MHST29908	ST-MH-01S	300mm	PVC	SDR-35	3.9m	65.72	65.71
ST-MH-01S	ST-MH-00S	ST-MH-01S	300mm	PVC	SDR-35	7.5m	65.78	65.75
ST-OGS-02S	ST-MH-01S	ST-MH-03S	300mm	PVC	SDR-35	11.8m	65.85	65.81
ST-MH-03S	ST-OGS-02S	ST-MH-03S	300mm	PVC	SDR-35	6.9m	65.90	65.88
ST-CB-12S	ST-MH-03S	ST-MH-03S	250mm	PVC	SDR-35	13.5m	66.69	66.63
ST-CB-11S	ST-CBMH-10S	ST-MH-03S	250mm	PVC	SDR-35	1.7m	66.04	66.03
ST-CBMH-10S	ST-MH-03S	ST-MH-03S	300mm	PVC	SDR-35	5.5m	66.98	66.96
ST-MH-04S	ST-MH-03S	ST-MH-04S	600mm	CONC	50-D	26.8m	65.99	65.93
CHAMBER S	ST-MH-04S	ST-MH-04S	300mm	PVC	SDR-35	2.7m	66.28	66.26
ST-CBMH-05S	ST-MH-04S	ST-MH-04S	525mm	CONC	50-D	38.6m	66.13	66.05
ST-CBMH-06S	ST-MH-04S	ST-MH-04S	450mm	CONC	50-D	33.3m	66.23	66.16
ST-CBMH-07S	ST-MH-04S	ST-MH-04S	450mm	CONC	50-D	30.5m	66.32	66.26
ST-CBMH-08S	ST-MH-04S	ST-MH-04S	250mm	PVC	SDR-35	36.4m	66.51	66.35
ST-CB-09S	ST-CBMH-08S	ST-CBMH-08S	250mm	PVC	SDR-35	5.2m	66.56	66.54
ST-CB-LD-01	ST-CBMH-LD-02	ST-CBMH-LD-02	250mm	PVC	-	56.2	65.86	65.72
ST-CBMH-LD-02	Ex. MHST29586	ST-MH-03T	250mm	PVC	SDR-35	5.2m	65.69	65.67
ST-MH-03T	Ex. MHST29586	ST-MH-03T	300mm	PVC	SDR-35	2.9m	65.68	65.67
BUILDING B CAP	ST-MH-06T	ST-MH-06T	200mm	PVC	SDR-35	11.2m	67.04	66.93
ST-MH-06T	ST-MH-06T	ST-MH-06T	200mm	PVC	SDR-35	4.8m	65.76	65.71
ST-OGS-01T	ST-MH-06T	ST						



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CLV GROUP
 485 Bank Street, Suite 200
 Ottawa, Ontario
 K2P 1Z2

REVISION RECORD

NO.	DESCRIPTION	DATE
1	ISSUED FOR COORDINATION	2019-04-30
2	ISSUED FOR REVIEW	2019-10-01
3	ISSUED FOR SITE PLAN APPROVAL	2019-10-28
4	RE-ISSUED FOR SITE PLAN APPROVAL	2020-12-18
5	RE-ISSUED FOR SITE PLAN APPROVAL	2021-05-10

ISSUE RECORD

NO.	DESCRIPTION	DATE
1	ISSUED FOR COORDINATION	2019-04-30
2	ISSUED FOR REVIEW	2019-10-01
3	ISSUED FOR SITE PLAN APPROVAL	2019-10-28
4	RE-ISSUED FOR SITE PLAN APPROVAL	2020-12-18
5	RE-ISSUED FOR SITE PLAN APPROVAL	2021-05-10

PARSONS
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 Project1 Studio Incorporated
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 (formerly 530 Tremblay Road)
 Ottawa, ON

PROJ	SCALE	DRAWN	REVIEWED
477074	1:300	SS	MM

DRAINAGE PLAN

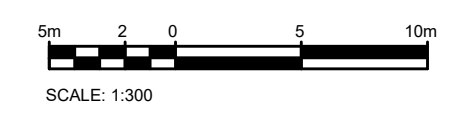
C106

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 - 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 IN ACCORDANCE WITH CITY OF OTTAWA STANDARD R10.
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 - REFER TO ARCHITECT AND LANDSCAPE ARCHITECTS DRAWINGS FOR BUILDING, LANDSCAPE, AND HARD SURFACE AREAS AND DIMENSIONS.
 - THIS DRAWING REFLECTS THE PROPOSED GRADING, SEWER AND WATERMAIN DESIGN FOR THE CAPITAL WORKS PROJECT CPO0180 ON THE ADJACENT AVENUE'S AS PRESENTED IN DRAWING 024, 026, 028, 044, 045, AND 046, DATED 2/17/2020.

ROOF AREA ID	DRAINAGE AREA	R
WS-A1	0.007	0.90
WS-A2	0.004	0.90
WS-A3	0.009	0.90
WS-A4	0.006	0.90
WS-A5	0.003	0.90
WS-A6	0.008	0.90
WS-A7	0.008	0.90
WS-A8	0.015	0.90
WS-A9	0.013	0.90
WS-A10	0.020	0.90
WS-B1	0.018	0.90
WS-B2	0.017	0.90
WS-B3	0.007	0.90
WS-B4	0.014	0.90
WS-B5	0.005	0.90
WS-B6	0.007	0.90
WS-B7	0.013	0.90
WS-B8	0.004	0.90
WS-B9	0.021	0.90
WS-B10	0.010	0.90

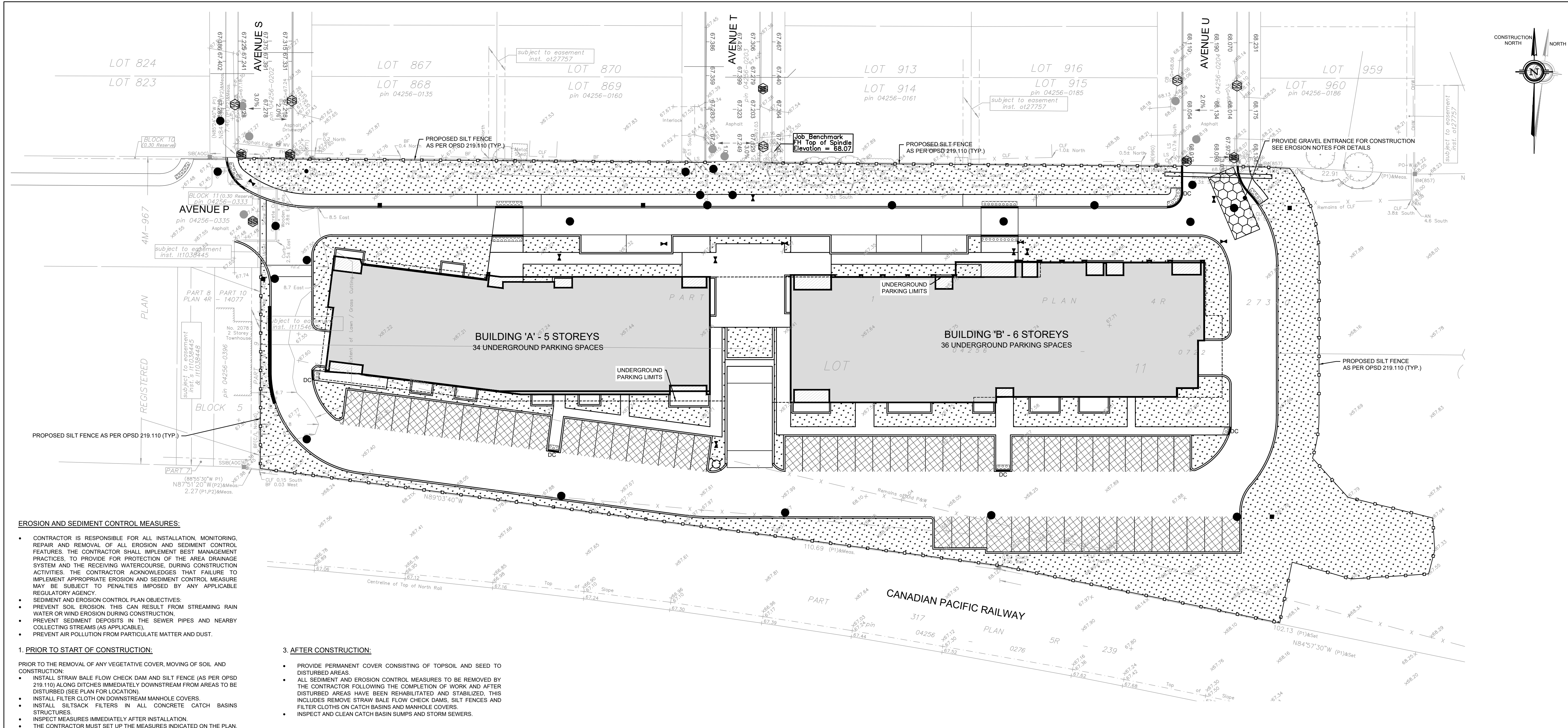
LEGEND:

- EXISTING PROPERTY LINE
- Concrete Curbs
- EXISTING CONCRETE CURB
- PROPOSED CONCRETE CURB
- DC
- PROPOSED DEPRESSED CURB
- PROPOSED BUILDING OR STRUCTURE
- EXISTING WATERMAIN
- EXISTING V&VB
- EXISTING CURBSTOP
- EXISTING FIRE HYDRANT
- PROPOSED V&VB
- PROPOSED FIRE HYDRANT
- EXISTING SANITARY MANHOLE
- PROPOSED SANITARY MANHOLE
- EXISTING STORM MANHOLE
- PROPOSED STORM MANHOLE
- PROPOSED CATCH BASIN
- PROPOSED FENCE
- PROPOSED RAILING
- PROPOSED CONTROLLED ROOF DRAIN
- PROPOSED ROOF DRAIN
- EXISTING TREE AND HEDGE
- PROPOSED LANDSCAPE AREA
- TREE PROTECTION FENCE
- PROPOSED BOLLARD
- PROPOSED RETAINING WALL
- PROPOSED TERRACING
- PROPOSED DITCH
- EXISTING GRADE
- PROPOSED GRADE
- PROPOSED BOTTOM OF WALL GRADE
- PROPOSED TOP OF WALL GRADE
- PROPOSED SWALE GRADE
- PROPOSED TOP OF CURB GRADE
- PROPOSED MAXIMUM PONDING LIMIT PRIOR TO OVERFLOW
- PROPOSED MAJOR OVERLAND FLOW
- PROPOSED WATERSHED BOUNDARY
- PROPOSED CATCH BASIN
- WATERSHED AREA NO.
- RUNOFF COEFFICIENT
- AREA (IN HECTARES)



D07-12-19-0197

#18089



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KEY PLAN



CLV GROUP
 485 Bank Street, Suite 200
 Ottawa, Ontario
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REVISION RECORD

REVISION	DATE
RE-ISSUED FOR SITE PLAN APPROVAL	2021-05-10
RE-ISSUED FOR SITE PLAN APPROVAL	2020-12-18

ISSUE RECORD

ISSUE	DATE



Project1 Studio Incorporated
 (613) 233-3536 | info@project1studio.ca

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 (formerly 530 Tremblay Road)
 Ottawa, ON

PROJ	SCALE	DRAWN	REVIEWED
477074	1:300	SS	MM

EROSION AND SEDIMENT CONTROL PLAN

C107

#18089

EROSION AND SEDIMENT CONTROL MEASURES:

- CONTRACTOR IS RESPONSIBLE FOR ALL INSTALLATION, MONITORING, REPAIR AND REMOVAL OF ALL EROSION AND SEDIMENT CONTROL FEATURES. 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 MEASURE MAY BE SUBJECT TO PENALTIES IMPOSED BY ANY APPLICABLE REGULATORY AGENCY.
- SEDIMENT AND EROSION CONTROL PLAN OBJECTIVES:
 - PREVENT SOIL EROSION. THIS CAN RESULT FROM STREAMING RAIN WATER OR WIND EROSION DURING CONSTRUCTION.
 - PREVENT SEDIMENT DEPOSITS IN THE SEWER PIPES AND NEARBY COLLECTING STREAMS (AS APPLICABLE).
 - PREVENT AIR POLLUTION FROM PARTICULATE MATTER AND DUST.

1. PRIOR TO START OF CONSTRUCTION:

- PRIOR TO THE REMOVAL OF ANY VEGETATIVE COVER, MOVING OF SOIL AND CONSTRUCTION:
 - INSTALL STRAW BALE FLOW CHECK DAM AND SILT FENCE (AS PER OPSD 219.110) ALONG DITCHES IMMEDIATELY DOWNSTREAM FROM AREAS TO BE DISTURBED (SEE PLAN FOR LOCATION).
 - INSTALL FILTER CLOTH ON DOWNSTREAM MANHOLE COVERS.
 - INSTALL SILTSACK FILTERS IN ALL CONCRETE CATCH BASIN STRUCTURES.
 - INSPECT MEASURES IMMEDIATELY AFTER INSTALLATION.
 - THE CONTRACTOR MUST SET UP THE MEASURES INDICATED ON THE PLAN, INSPECT THEM FREQUENTLY AND CLEAN AND REPAIR OR REPLACE THE DETERIORATED STRUCTURES. AT THE END OF THE CONSTRUCTION PERIOD, THE CONTRACTOR IS RESPONSIBLE FOR REMOVAL OF THE TEMPORARY STRUCTURES AND RECONDITIONING THE AFFECTED AREAS.

2. DURING CONSTRUCTION:

- SEDIMENT AND EROSION CONTROL MEASURES TO BE CONSTRUCTED AS PER OPSD 805.
- WHEN SEDIMENT AND EROSION CONTROL MEASURES MUST BE REMOVED TO COMPLETE A PORTION OF THE WORK, THE SAME MEASURES MUST BE REINSTALLED UPON THE WORK'S COMPLETION.
- WORK TO BE DONE IN THE VICINITY OF MAJOR WATERWAYS TO BE CARRIED OUT FROM JULY AND SEPTEMBER ONLY.
- MINIMIZE THE EXTENT OF DISTURBED AREAS AND THE DURATION OF EXPOSURE:
 - PROTECT DISTURBED AREAS FROM RUNOFF.
 - PROVIDE TEMPORARY COVER SUCH AS SEEDING OR MULCHING IF DISTURBED AREA WILL NOT BE REHABILITATED SHORTLY.
 - INSPECT STRAW BALE FLOW CHECK DAMS, SILT FENCES, SILT SACKS, AND CATCH BASIN SUMPS DAILY AND AFTER EVERY MAJOR STORM EVENT. CLEAN AND REPAIR WHEN NECESSARY.
 - PLAN TO BE REVIEWED AND REVISED AS REQUIRED DURING CONSTRUCTION.
- EROSION CONTROL FENCING TO BE ALSO 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). WHEN STORING SOIL ON SITE IN PILES THE CONTRACTOR MUST COVER EACH PILE WITH TARPS, STRAW OR A GEOTEXTILE FABRIC TO AVOID FINE PARTICLE TRANSPORT BY WIND AND/OR STREAMING RAIN WATER.
- CONTROL WIND-BLOWN DUST OFF SITE TO ACCEPTABLE LEVELS BY SEEDING TOPSOIL PILES AND OTHER AREAS TEMPORARILY (PROVIDE WATERING AS REQUIRED). FOR DUST CONTROL, CONTRACTOR TO APPLY CALCIUM CHLORIDE (TYPE I - OPSD 2501 AND CANCS8B-15-1) AND WATER WITH EQUIPMENT APPROVED BY THE OWNER'S REPRESENTATIVE AT RATE IN ACCORDANCE TO OPSD 506 WHEN DIRECTED BY OWNER'S REPRESENTATIVE.
- 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. SEDIMENT CAPTURE SILT SACKS MUST BE MAINTAINED AND CANNOT BE REMOVED UNTIL ALL LANDSCAPING AREAS ARE COMPLETED.
- NO ALTERNATE METHODS OF EROSION PROTECTION SHALL BE PERMITTED UNLESS APPROVES BY THIS CONSULTING ENGINEER AND THE TOWN DEPARTMENT OF PUBLIC WORKS.
- CONTRACTOR RESPONSIBLE FOR MUNICIPAL ROADWAY AND SIDEWALK TO BE CLEANED OF ALL SEDIMENT FROM VEHICULAR TRACKING ETC. AT THE END OF EACH WORK DAY.
- DURING WET CONDITIONS, TIRES OF ALL VEHICLES/EQUIPMENT LEAVING THE SITE ARE TO BE SCRAPPED.
- 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 ADJUTING PROPERTIES OR PUBLIC STREETS DURING CONSTRUCTION AND PROCEED IMMEDIATELY TO CLEAN UP ANY AREAS SO AFFECTED.
- PROVIDE GRAVEL ENTRANCE WHEREVER EQUIPMENT LEAVES THE SITE TO PROVIDE MUD TRACKING ONTO PAVED SURFACES. GRAVEL BED SHALL BE A MINIMUM OF 10m LONG, 4m WIDE, AND 0.15m DEEP AND SHALL CONSIST OF COARSE MATERIAL, MAINTAIN GRAVEL ENTRANCE IN CLEAN CONDITION.

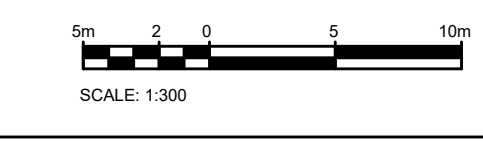
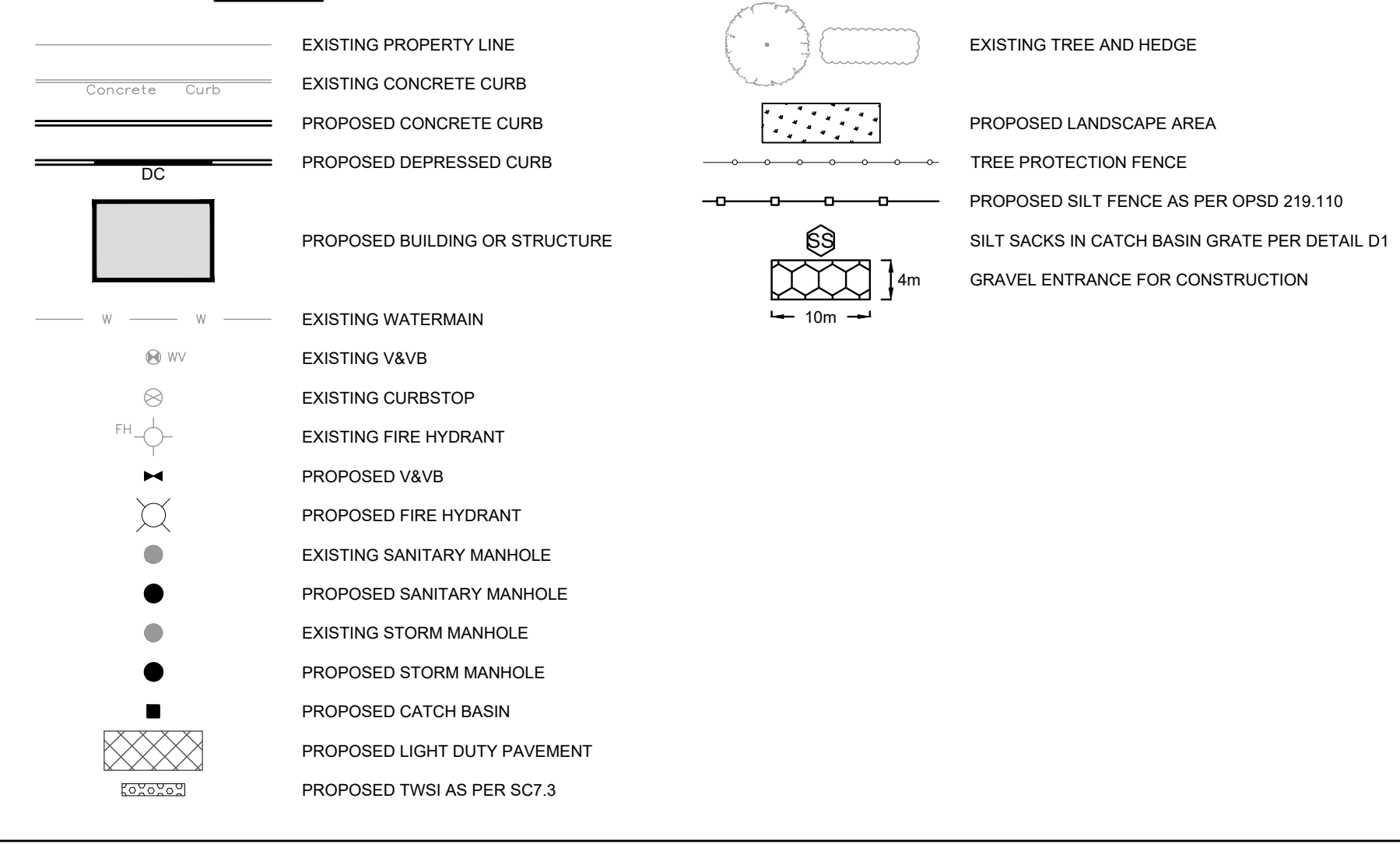
3. AFTER CONSTRUCTION:

- PROVIDE PERMANENT COVER CONSISTING OF TOPSOIL AND SEED TO DISTURBED AREAS.
- ALL SEDIMENT AND EROSION CONTROL MEASURES TO BE REMOVED BY THE CONTRACTOR FOLLOWING THE COMPLETION OF WORK AND AFTER DISTURBED AREAS HAVE BEEN REHABILITATED AND STABILIZED. THIS INCLUDES REMOVE STRAW BALE FLOW CHECK DAMS, SILT FENCES AND FILTER CLOTHS ON CATCH BASINS AND MANHOLE COVERS.
- INSPECT AND CLEAN CATCH BASIN SUMPS AND STORM SEWERS.

NOTES: GENERAL

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- REFER TO GEOTECHNICAL REPORT FOR SUBSURFACE CONDITIONS, CONSTRUCTION RECOMMENDATIONS, AND GEOTECHNICAL INSPECTION REQUIREMENTS.
- REFER TO ARCHITECT AND LANDSCAPE ARCHITECTS DRAWINGS FOR BUILDING, LANDSCAPE, AND HARD SURFACE AREAS AND DIMENSIONS.
- THIS DRAWING REFLECTS THE PROPOSED GRADING, SEWER AND WATERMAIN DESIGN FOR THE CAPITAL WORKS PROJECT CP000186 ON THE ADJACENT AVENUES AS PRESENTED IN DRAWING 024, 026, 028, 044, 045, AND 046, DATED 27/02/20.

LEGEND:



D07-12-19-0197