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PROPOSED COMMERCIAL AND RESIDENTIAL DEVELOPMENT

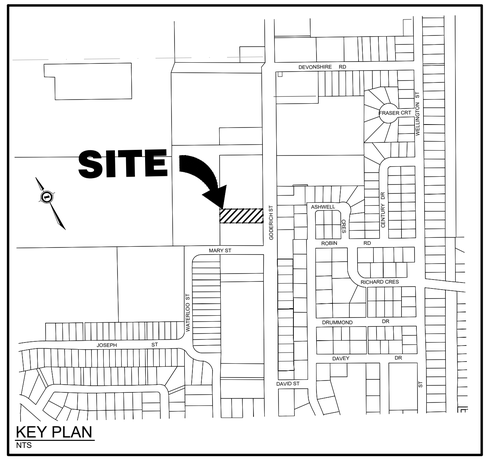
TOWN OF SAUGEEN SHORES

CONTRACT NO. 22-05015-01

MAYOR	:	MR. LUKE CHARBONNEAU
CHIEF ADMINISTRATIVE OFFICER	:	MS. KARA VAN MYALL
CLERK (INTERIM)	:	MS. DAWN MITTELHOLTZ
DIRECTOR DEVELOPMENT SERVICES	:	MR. MARK PAOLI

OWNER :

index



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LICENSED PROFESSIONAL ENGINEER
03/25/2025
S. J. COBEAN
PROVINCE OF ONTARIO

COBIDE ENGINEERING INC
517 10th STREET, Hanover, Ontario N4N 1R4
Telephone: (519) 506-5959
www.cobideeng.com

Title: PROPOSED COMMERICAL AND RESIDENTIAL DEVELOPMENT
1032 GODERICH STREET
TOWN OF SAUGEEN SHORES
TITLE SHEET

Client: G.M. DIEMERT ACHITECT INC.

Design:	ARMH	Scale:	
Drawn:	ARMH	Approved:	
Checked:	SJC		
Date:	JUNE 2022		Design Engineer

DRAWING No. 05015-TS

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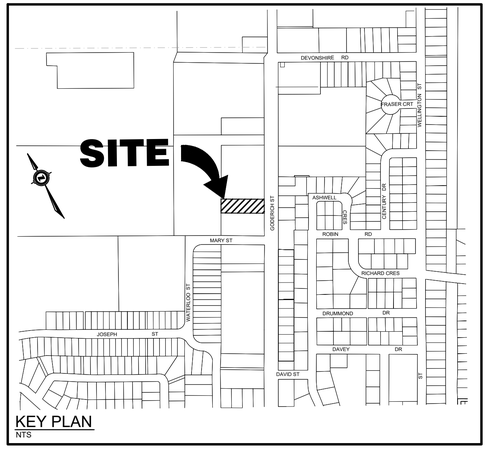

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- PROPOSED WATERMAIN
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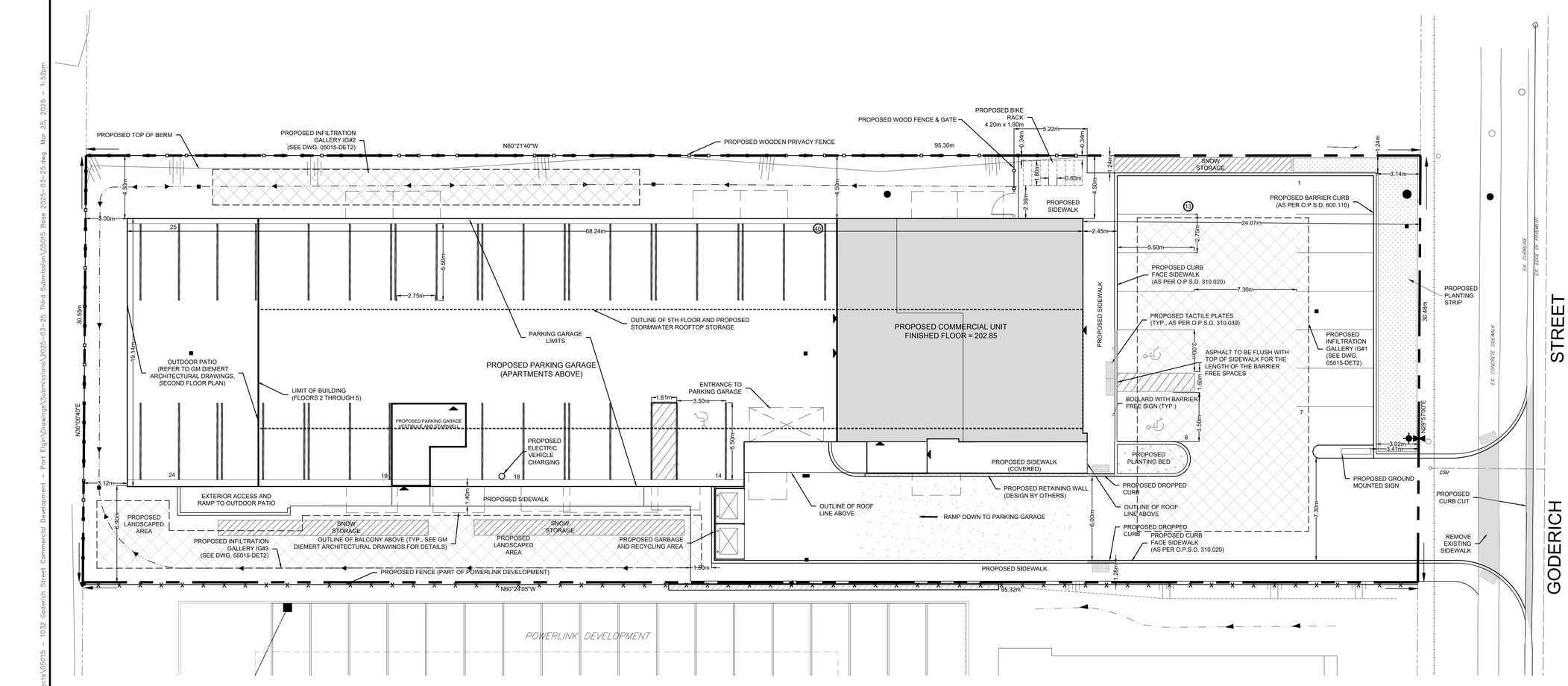

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PROFESSIONAL ENGINEER — LICENCED — 03/25/2025 — S. J. COBEAN — PROVINCE OF ONTARIO

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517 10th STREET, Hanover, Ontario N4N 1R4
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Date:	JUNE 2022		Design Engineer

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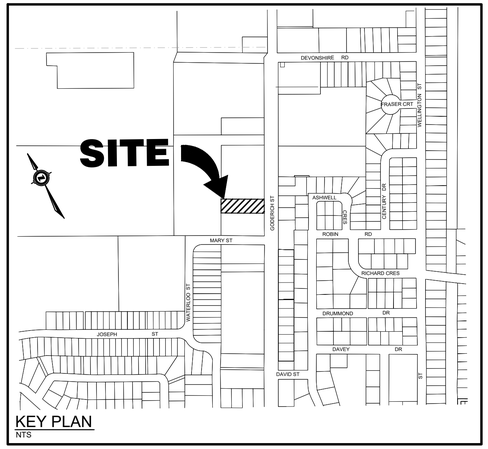

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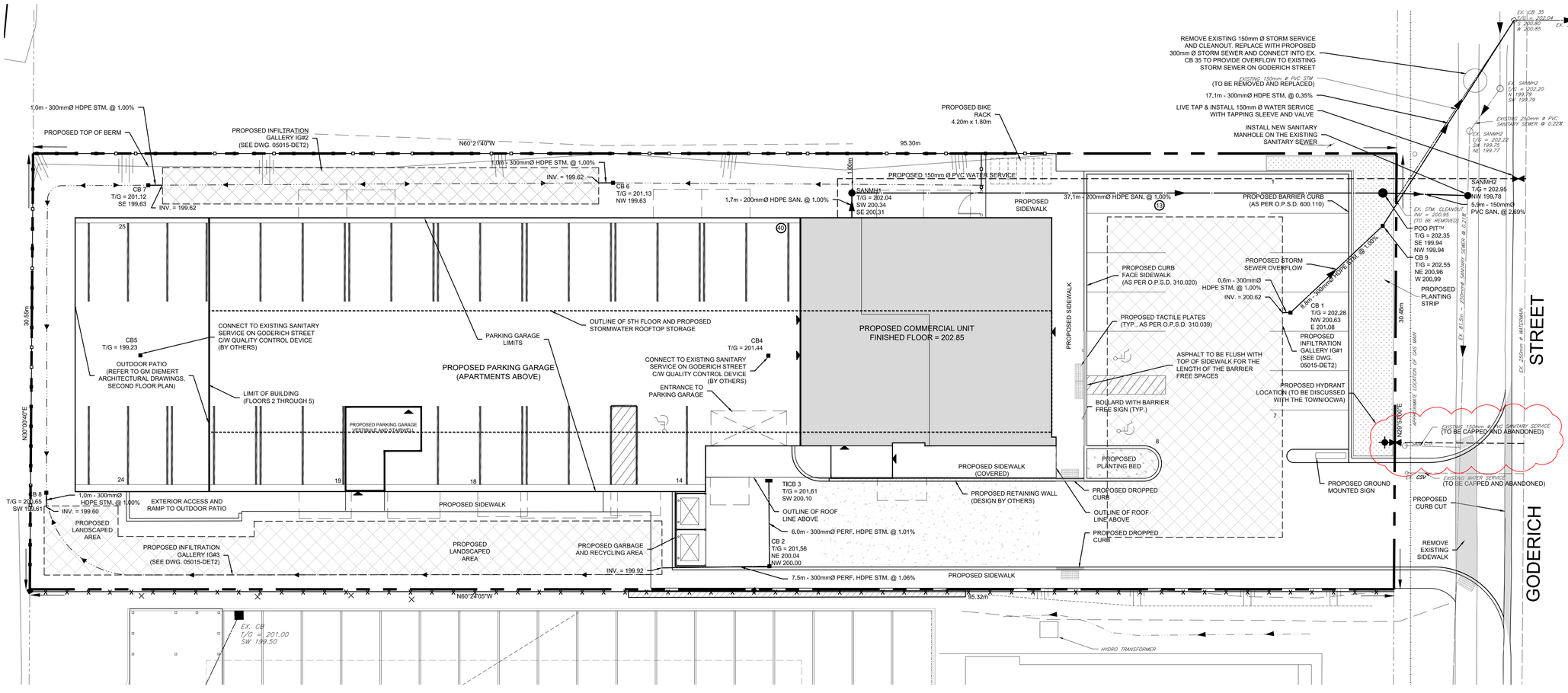

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03/25/2025
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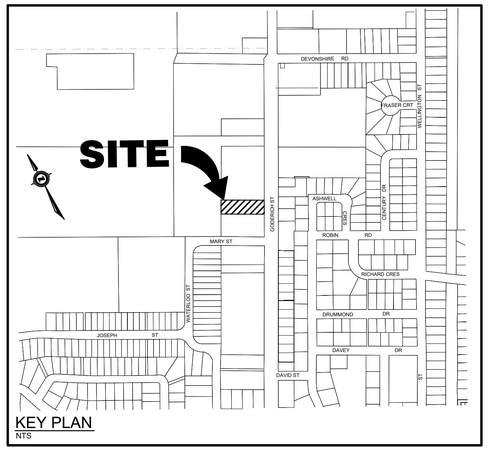

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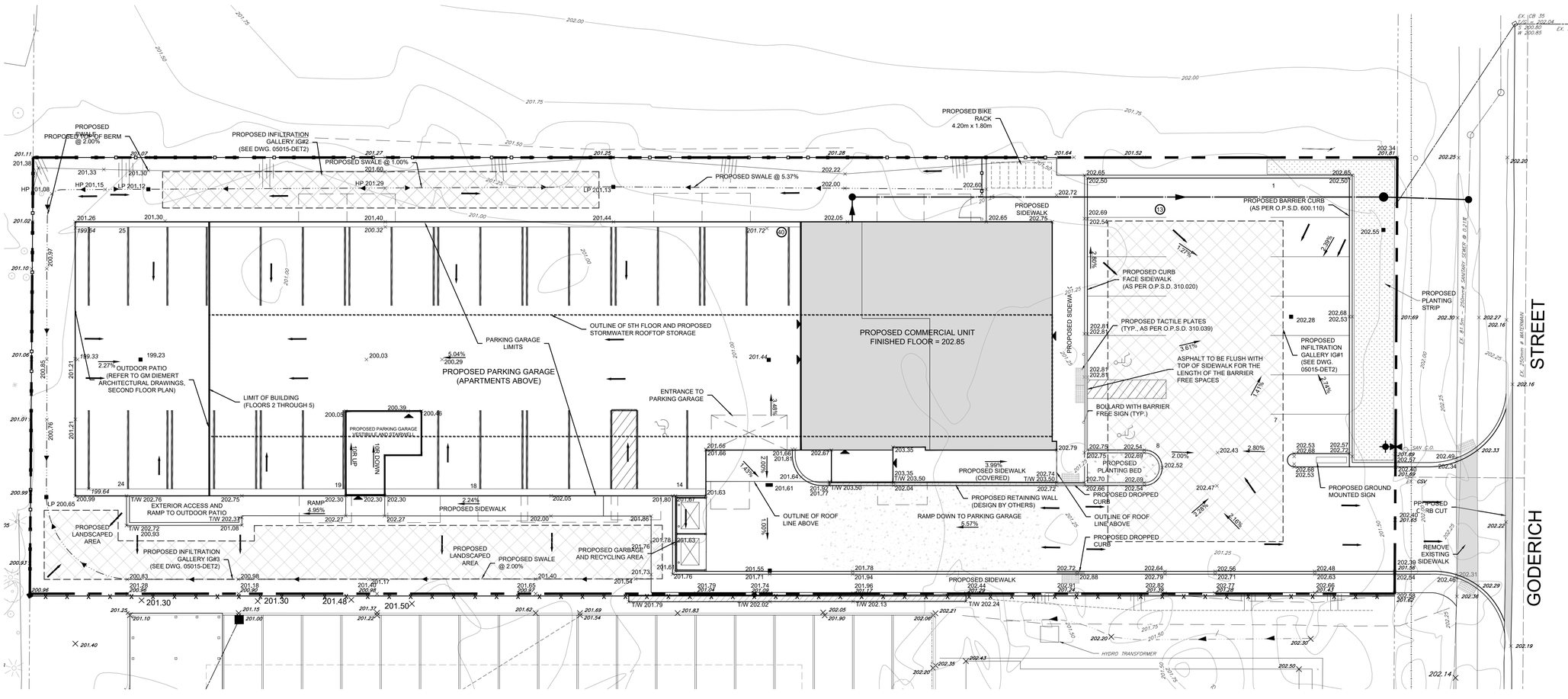

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TOWN OF SAUGEEN SHORES ENGINEERING STANDARDS

GENERAL - CONSTRUCTION

1. ALL WORK TO BE CARRIED OUT IN ACCORDANCE WITH TOWN OF SAUGEEN SHORES STANDARDS AND OPSS. WHERE CONFLICT OCCURS, TOWN STANDARDS GOVERN.
2. DEWATERING TO BE CARRIED OUT IN ACCORDANCE WITH OPSS 517 AND 518 TO MAINTAIN ALL TRENCHES IN A DRY CONDITION.
3. ALL ENGINE DRIVEN PUMPS TO BE ADEQUATELY SILENCED, SUITABLE FOR OPERATION IN A RESIDENTIAL DISTRICT.
4. DISTURBED AREAS TO BE REINSTATED TO PREVIOUS CONDITION OR BETTER.
5. ALL MAINTENANCE HOLE FRAMES AND COVERS TO BE INITIALLY SET TO BASE COURSE HL4 ASPHALT ELEVATION AND ULTIMATELY RAISED BY ADDING SOLID ONE PIECE CAST IRON ADJUSTMENT RINGS PRIOR TO PLACING SURFACE COURSE HL3 ASPHALT.
6. ALL EXISTING MAINTENANCE HOLES TO BE RAISED OR LOWERED TO PROPOSED GRADE. MAXIMUM ALLOWABLE HEIGHT OF ADJUSTMENT TO BE 300mm.
7. ALL EXISTING HYDRANTS AND VALVES TO BE RAISED OR LOWERED TO PROPOSED GRADE.
8. TRENCHES FOR UTILITIES TO BE MINIMUM 600mm WIDE BACKFILLED WITH APPROVED NATIVE MATERIAL AND COMPACTED ALL TO THE SATISFACTION OF THE LOCAL UTILITY.
9. CONDUITS FOR ROAD CROSSINGS TO EXTEND 1.0m BEYOND CURB c/w PULL ROPES. INSTALL CONDUITS TO LOCAL STANDARDS.
10. MAINTAIN A 150mm VERTICAL SEPARATION (MINIMUM) BETWEEN SEWERS AT CROSSINGS.
11. CONTRACTOR IS RESPONSIBLE TO NOTIFY ALL UTILITY COMPANIES PRIOR TO COMMENCING WORK AND COORDINATE CONSTRUCTION ACCORDINGLY.
12. TOPSOIL TO BE STRIPPED FROM SITE SHALL BE STOCKPILED AS DIRECTED BY ENGINEER.

ROADWAYS

1. CONCRETE CURB AND GUTTER TO OPSD 600.040, 600.060 OR 600.100 AS INDICATED.
2. CURB AND GUTTER TERMINATION TO OPSD 608.010.
3. CURB AND GUTTER CONSTRUCTION SHALL CONFORM TO OPSS 353, NOV. 2006. STREET AND TRAFFIC SIGNS TO TOWN STANDARD TO BE UNISTRUT CANADA
4. CONTRACTOR TO SUPPLY AND INSTALL LTD. TELESPAR YIELDING BREAKAWAY SYSTEM 3.75m x 50mm SQUARE METAL POLE OR APPROVED EQUIVALENT.
5. SUBGRADE TO BE COMPACTED TO A MAXIMUM DRY DENSITY OF 95% OF THE MATERIAL'S MAXIMUM DRY DENSITY (MDD). COMPACTION PER OPSS 501, NOV. 2005.
6. GRANULAR 'A' AND 'B' MATERIALS TO BE COMPACTED TO 100% MDD, PER OPSS 501, NOV. 2005.
7. BOULEVARD COMPACTION TO 95% OF MATERIAL'S MDD.
8. ROADWAY SUBGRADE TO BE PROOF ROLLED IN PRESENCE OF GEOTECHNICAL ENGINEER.
9. STANDARD ROAD BASE SHALL CONSIST OF 300mm GRANULAR 'B' AND 150mm GRANULAR 'A'.
10. PAVEMENT ON NEW ROADS TO BE HOT MIX HL4 (50mm) BASE COURSE AND HL3 (40mm) PER OPSS 310, NOV. 2003.

SANITARY SEWERS AND SERVICES

1. MAINTENANCE HOLES TO OPSS 1001.01 (1200mmØ)
2. BENCHING TO OPSD 1004.01
3. FRAMES AND COVERS TO BE OPSD 401.01 TYPE 'A', CLOSED COVER.
4. SERVICE CONNECTIONS TO BE 125mm, TERMINATED AT THE PROPERTY LINE WITH A 125x125x100mm WYE C/W CAP, A 100mm Ø RISER C/W 100mmØ LONG SWEEP CAPPED AT SURFACE. SEE TOWN STANDARDS DRAWING.
5. SERVICE CONNECTIONS TO OPSD 1006.020 WITH SUITABLE NATIVE BEDDING OR GRANULAR 'A'. SEE TOWN STANDARD ON THIS SHEET.
6. BEDDING FOR SEWER SHALL BE PER OPSD 1005.02. BEDDING MATERIAL FOR SANITARY SEWER AND SERVICES SHALL BE APPROVED NATIVE MATERIAL OR GRANULAR 'A'.
7. BACKFILL PER OPSD 803.04 USING APPROVED NATIVE BACKFILL.
8. BACKFILL AND BEDDING MATERIAL TO BE COMPACTED PER OPSS 410 AND 514.
9. TESTING TO OPSS 410, APRIL 2008.
10. 200mm LONG 13mmØ SS 314 BOLTS WITH NUTS AND WASHERS TO BE INSTALLED IN MANHOLE COVERS LIFT HOLES.

WATERMAIN AND WATER SERVICES

1. THRUST BLOCKS PER OPSD 1103.010 AND 1103.020.
2. SERVICE CONNECTIONS PER OPSD 1104.01.
3. HYDRANT, INSTALLATION PER OPSD 1105.01 AND TO TOWN STANDARDS.
4. USE APPROVED NATIVE MATERIAL OR GRANULAR 'A' BEDDING PER OPSD - 1102.02. BACKFILL TO BE APPROVED NATIVE MATERIAL PER OPSD 803.04.
5. WATERMAIN, SERVICES, AND HYDRANTS TO BE INSTALLED PER OPSS 701, NOV. 2006.
6. ALL PVC WATERMAIN TO HAVE TRACER WIRE BETWEEN HYDRANTS AND OTHER CONDUCTING APPURTENANCES.
7. MINIMUM COVER TO BE 1.7m.

STORM SEWERS AND SERVICES

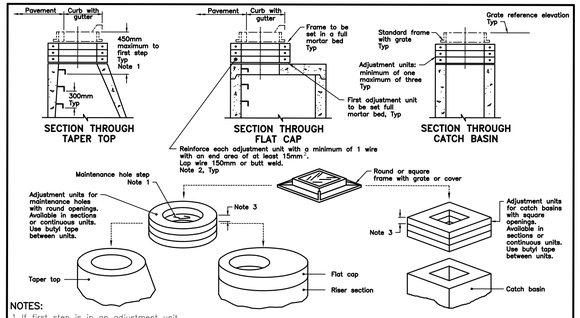
1. MAINTENANCE HOLES TO OPSS 1001.01 (1200mmØ)
2. FRAMES AND COVERS TO BE OPSD 401.010 TYPE 'A'.
3. SERVICE CONNECTIONS TO BE 150mm, TERMINATED AT THE PROPERTY LINE WITH A 150mmØ RISER C/W 150mmØ LONG SWEEP CAPPED AT SURFACE. SEE TOWN STANDARD.
4. SERVICE CONNECTIONS TO OPSD 1006.020 WITH SUITABLE NATIVE BEDDING OR GRANULAR 'A'.
5. BEDDING FOR SEWER SHALL BE PER OPSD 1005.02. BEDDING MATERIAL FOR STM SHALL BE APPROVED NATIVE MATERIAL OR GRANULAR 'A'.
6. BACKFILL PER OPSD 803.04 USING APPROVED NATIVE BACKFILL.
7. BACKFILL AND BEDDING MATERIAL TO BE COMPACTED PER OPSS 410 AND 514.

MATERIALS

1. SANITARY SEWER - SDR35 PVC.
2. SANITARY SERVICES - SDR28 PVC, 125Ø USING TEE CONNECTIONS TO MAIN.
3. STORM SEWER - PE (PS 320).
4. ALL DRAINAGE PIT MATERIAL TO BE PERFORATED P.E. (PS 320) STORM SEWER.
5. WATERMAIN - DR18 PVC INCLUDING 12 AWG TWU TRACER WIRE. ALL MECHANICAL JOINTS TO BE EQUIPPED WITH GRIP RINGS.
6. WATERMAIN SERVICES - 20mmØ, REHAU MUNICIPEX, MAIN STOP MEULLER 15008, CURB STOP (MEULLER H 15209) C/W CURB BOX (MEULLER A-726). SERVICE SADDLES SHALL BE ROBAR S.S. -2616 DB.
7. HYDRANTS - CENTURY WITH 2-63.5mm PORTS AND 100Ø STORTZ PUMPER PORT, OR AS APPROVED BY THE FIRE CHIEF OF TOWN OF SAUGEEN SHORES. MUELLER A2360-3 WEDGE STYLE GATE VALVE SHALL BE PLACED 1.0m FROM HYDRANT. EACH HYDRANT TO BE C/W 50mm DIA. UNDERGROUND TEST STATION PER TOWN STANDARDS.
8. ALL HYDRANT INSTALLATIONS WILL ALSO INCLUDE A 50mm DIA. UNDERGROUND TEST STATION. THE TEST STATION WILL BE APPROX. 300m BEHIND EACH HYDRANT AND COME COMPLETE WITH 2 TERMINALS ON THE TERMINAL BLOCK THAT IS FASTENED TO THE LID. THE LID SHALL HAVE A PERMANENT MAGNET AND/OR A METAL LID FOR EASY DETECTION WITH AN ELECTRONIC LOCATOR. THE TOP OF THE TEST STATION SHALL BE INSTALLED FLUSH TO THE PROPOSED FINISH GRADE ELEVATION. TEST STATIONS SHALL BE SUPPLIED BY HANDLEY INDUSTRIES OR APPROVED EQUIVALENT.
9. VALVES - AWWA C509 RESILIENT SEATED GATE VALVES (RIGHT HAND CLOSING) WITH MECHANICAL JOINT ENDS. VALVE BOX SHALL BE 130 MAX. DIA. CAST OR DUCTILE IRON SLIDER TYPE WITH STANDARD LOWER SECTION AND GUIDE PLATE BY BIBBY-ST. CROIX. PREFABRICATED HOLES SHALL BE PLACED NEAR TOP OF VALVE BOX FOR TRACER WIRE.
10. "STOP AND DRAIN" VALVES ARE TO BE USED AT BLOW-OFFS. MUELLER H-15219 OR APPROVED EQUIVALENT TO BE USED.
11. HYDRANTS TO BE PAINTED YELLOW BARREL WITH YELLOW TOP. 100mm(4") DIAMETER CONNECTION CAP IN BLACK, OTHER CONNECTION CAPS TO BE YELLOW. SUPPLY AND PLACE FIBERGLASS POST AND SIGN ON 63.5mm(2-1/2") PORT TO INDICATE LOCATION IN WINTER WEATHER.
12. UTILITY ROAD CROSSING CONDUITS - 100mmØ TYPE II PVC.

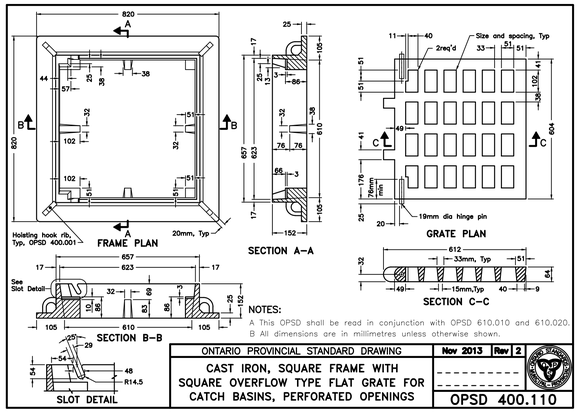
TOWN OF SAUGEEN SHORES ENGINEERING STANDARDS

Watermain Pipe	
100 mm Ø and larger	PVC DR18 (Class 150)
50 mm Ø	PVC Series 160
Gate Valves	Mueller, mechanical joint, resilient seat, right hand closing
Valve Boxes	130 mm Ø (5¼") cast iron or ductile iron slider type with a standard lower section and guide plate at manufactured by Bibby - St. Croix or approved equivalent
Hydrants	Canada Valve "Century", yellow with one standard 100 mm Storz quick connect fitting on the pumper port and two 63.5 m (2 ½") nozzles with CSA Standard thread. Left hand closing
Fittings	Tees, bends, reducers, sleeves, etc. Mechanical joint, cast iron or ductile iron
Saddles	Broad band, stainless steel, double bolt
Corporation Stops	Mueller H15008 or Ford F1000
Curb Stops	Muller H15207 or Ford 244-333 (3/4") or Ford 244-444 (1")
Service Material	Type K Soft Copper, Rehau Municipex service line or IPEX SDR9 service line
Curb Boxes	Mueller A-726-7 for 1500 mm to 1800 mm cover
Curb Box Extension Rods	Stainless Steel to within 600 mm of surface
Tracer Wire	12 GA covered wire
Grip Rings	To be used at all mechanical joint fittings
Fasteners	Protecto caps and zinc sacrificial anodes on all mechanical joints
Test Station	50mm underground test station by Handley Industries



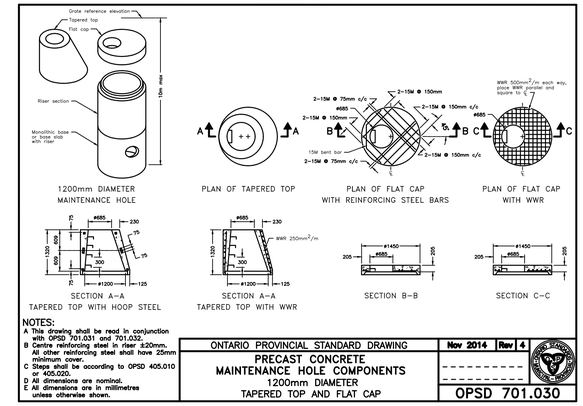
NOTES:
1 If first step is in an adjustment unit, the adjustment unit shall be of the type manufactured with a step in place.
2 Centre reinforcing in adjustment unit ±10mm.
3 Round and square adjustment units are available in sizes of 50, 75, 100, 150, and 300mm.
A Adjustment units shall not extend beyond the outside edge of the structure.
B All dimensions are in millimetres unless otherwise shown.

ONTARIO PROVINCIAL STANDARD DRAWING	Nov 2014	Rev 3
PRECAST CONCRETE ADJUSTMENT UNITS FOR MAINTENANCE HOLES, CATCH BASINS, AND VALVE CHAMBERS		OPSD 704.010



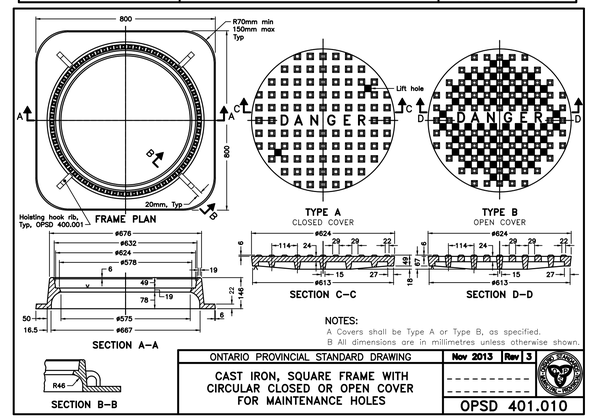
NOTES:
A This OPSD shall be read in conjunction with OPSD 610.010 and 610.020.
B All dimensions are in millimetres unless otherwise shown.

ONTARIO PROVINCIAL STANDARD DRAWING	Nov 2013	Rev 2
CAST IRON, SQUARE FRAME WITH SQUARE OVERFLOW TYPE FLAT GRATE FOR CATCH BASINS, PERFORATED OPENINGS		OPSD 400.110



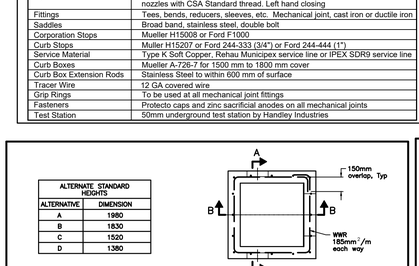
NOTES:
A This drawing shall be read in conjunction with OPSD 701.031 and 701.032.
B Centre reinforcing steel in riser ±20mm. All other reinforcing steel shall have 25mm minimum cover.
C Steps shall be according to OPSD 405.010 or 405.020.
D All dimensions are nominal.
E All dimensions are in millimetres unless otherwise shown.

ONTARIO PROVINCIAL STANDARD DRAWING	Nov 2014	Rev 4
PRECAST CONCRETE MAINTENANCE HOLE COMPONENTS 1200mm DIAMETER TAPERED TOP AND FLAT CAP		OPSD 701.030



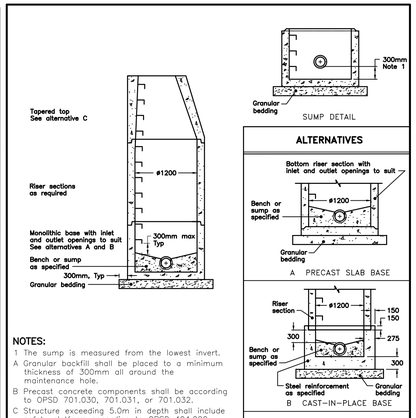
NOTES:
A Covers shall be Type A or Type B, as specified.
B All dimensions are in millimetres unless otherwise shown.

ONTARIO PROVINCIAL STANDARD DRAWING	Nov 2013	Rev 3
CAST IRON, SQUARE FRAME WITH CIRCULAR CLOSED OR OPEN COVER FOR MAINTENANCE HOLES		OPSD 401.010



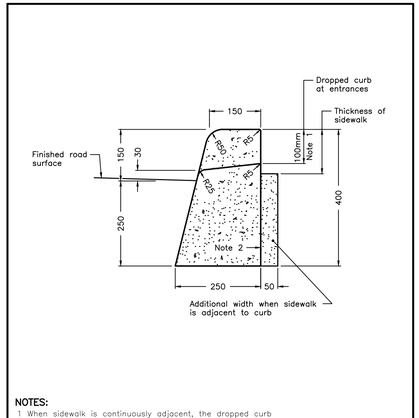
NOTES:
1 Outlet hole size 525mm diameter maximum, location as required.
2 200mm diameter knockout to accommodate subdrain. Knockout shall be 60mm deep.
A Centre reinforcing in base slab and walls ±20mm.
B Granular backfill shall be placed to a minimum thickness of 300mm all around the catch basin.
C Frame, grate, and adjustment units shall be installed according to OPSD 704.010.
D Pipe support shall be according to OPSD 708.020.
E All dimensions are nominal.
F All dimensions are in millimetres unless otherwise shown.

ONTARIO PROVINCIAL STANDARD DRAWING	Nov 2014	Rev 3
PRECAST CONCRETE CATCH BASIN 600x600mm		OPSD 705.010



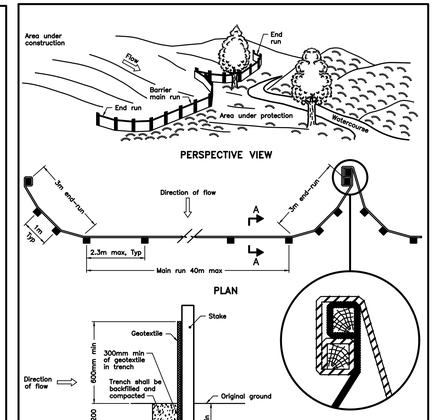
NOTES:
1 The sump is measured from the lowest invert.
A Granular backfill shall be placed to a minimum thickness of 300mm all around the maintenance hole.
B Precast concrete components shall be according to OPSD 701.030, 701.031, or 701.032.
C Structure exceeding 5.0m in depth shall include safety platform according to OPSD 404.020.
D Pipe support according to OPSD 708.020.
E For benching and pipe opening details, see OPSD 701.021.
F For adjustment unit and frame installation, see OPSD 704.010.
G All dimensions are nominal.
H All dimensions are in millimetres unless otherwise shown.

ONTARIO PROVINCIAL STANDARD DRAWING	Nov 2014	Rev 5
PRECAST CONCRETE MAINTENANCE HOLE 1200mm DIAMETER		OPSD 701.010



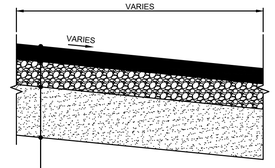
NOTES:
1 When sidewalk is continuously adjacent, the dropped curb at entrances shall be reduced to 75mm.
2 For slipforming procedure a 5% batter is acceptable.
A Treatment at entrances shall be according to OPSD 351.010.
B Outlet treatment shall be according to the OPSD 610 Series.
C The transition from one curb type to another shall be a minimum length of 3.0m, except in conjunction with guide rail where it shall be according to the OPSD 900 Series.
D All dimensions are in millimetres unless otherwise shown.

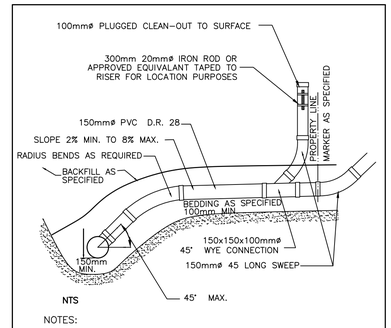
ONTARIO PROVINCIAL STANDARD DRAWING	Nov 2012	Rev 2
CONCRETE BARRIER CURB		OPSD 600.110



NOTE:
A All dimensions are in millimetres unless otherwise shown.

ONTARIO PROVINCIAL STANDARD DRAWING	Nov 2015	Rev 2
LIGHT–DUTY SILT FENCE BARRIER		OPSD 219.110





NOTES:
A For sewers smaller than 450 mmø, connections must be made using approved factory made tees; for all others sizes, either approved factory made tees or approved saddles may be used.
B Saddles must be installed on the main pipe before that pipe is laid.
C Approved cut–in tool must be used for field made tees.
D Service connection must be securely plugged at property line with an expanding type plug or approved equal.
E Plug at property line shall be adequately braced to withstand testing pressures.
F Gasket pipe will be required on town property.
G If existing sanitary service is A.C. pipe, a Fernco coupler shall be used.
H All dimensions are in millimetres unless otherwise shown.

TOWN OF SAUGEEN SHORES
SEWER SERVICE CONNECTIONS
FOR FLEXIBLE PIPE

No.	DATE	DESCRIPTION	BY	APPD
4	MAR 25/25	THIRD SUBMISSION - REVISED BIKE RACK/DROP CURB/TACTILE PLATE	ARMH	SJC
3	SEPT 20/24	SECOND SUBMISSION	JHL	SJC
2	MAY 16/24	FIRST SUBMISSION	ARMH	SJC
1	MAR 07/24	PRELIMINARY SUBMISSION	ARMH	SJC
0	AUG 16/22	PRELIMINARY SUBMISSION	ARMH	SJC

REVISION / ISSUE

Seal not valid unless signed and dated

I / LICENSED PROFESSIONAL ENGINEER
03/25/2025
S. J. COBEAN
PROVINCE OF ONTARIO

COBIDE ENGINEERING INC
517 - 10th STREET, Hanover, Ontario N4N 1R4
Telephone: (519) 506-5959
www.cobideeng.com

Title:
PROPOSED RESIDENTIAL AND COMMERCIAL BUILDING
1032 GODERICH STREET
TOWN OF SAUGEEN SHORES
ENGINEERING STANDARDS
TYPICAL CROSS-SECTION & MISCELLANEOUS DETAILS

Client: G.M. DIEMERT ARCHITECT INC.

Design: ARMH	Scale: AS SHOWN
Drawn: ARMH	Approved:
Checked: SJC	
Date: JUNE 2022	Design Engineer

DRAWING No. 05015-DET1

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Prepared For:	Project Information:	Engineer:	Calculations Performed By:
Name	Name	Name	Name
Company Name	Street Address	Company Name	Company Name
Street Address	City	Street Address	Street Address
City	State Zip	City	City
State Zip	Date: (mm/dd)	State Zip	State Zip
Phone		Phone	Phone
Fax		Fax	Fax
Email		Email	Email

Input Given Parameters

Unit of Measure	Metric	
Select Model	Recharger 330XLHD	
Stone Porosity	40.0%	
Number of Header Systems	2 Header	
Stone Depth **Above** Chamber	300	mm
Stone Depth **Below** Chamber	150	mm
Workable Bed Depth	2.84	meters
Max. Bed Width	12.80	meters
Storage Volume Required	169.18	cu. meters

Chamber Specifications

Height	775.0	mm
Width	1321.00	mm
Length	2.59	meters
Installed Length	2.13	meters
Bare Chamber Volume	1.48	cu. meters
Installed Chamber Volume	2.43	cu. meters

Image for visual reference only.May not reflect selected model.

Bed Depth	1.41	meters
Bed Width	12.24	meters
Storage Volume Provided	207.02	cu. meters

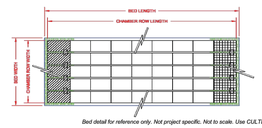
Materials List

Recharger 330XLHD Stormwater System by CULTEC, Inc.

Approx. Unit Count - not for construction	77	pieces
Actual Number of Chambers Required	80	pieces
Starter Chambers	8	pieces
Intermediate Chambers	64	pieces
End Chambers	8	pieces

HVLV FC-24 Feed Connector	14	pieces
CULTEC No. 410™ Filter Fabric	696.77	sq. meters
CULTEC No. 20L Polyethylene Liner	24.49	meters
Stone	215.00	cu. meters

Bed Detail



Bed detail for reference only. Not project specific. Not to scale. Use CULTEC StormGenie to output project specific detail.

Number of Rows Wide	8	pieces
Number of Chambers Long	10	pieces
Chamber Row Width	11.63	meters
Chamber Row Length	21.79	meters
Bed Width	12.24	meters
Bed Length	22.40	meters
Bed Area Required	274.26	sq. meters

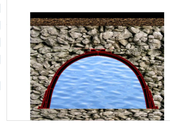
Project Name: Name **Date:** (mm/dd)

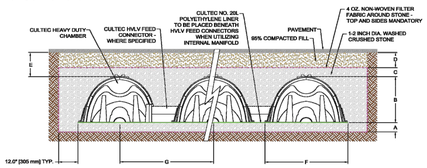
Cross Section Detail

Conceptual graphic only. Not job specific.

Recharger 330XLHD

Pavement	76	mm
95% Compacted Fill	106	mm
Stone Above	300	mm
Chamber Height	774.7	mm
Stone Below	150	mm
Effective Depth	1225.0	mm
Bed Depth	1407.4	mm





A	Depth of Stone Base	150.0	mm
B	Chamber Height	775.0	mm
C	Depth of Stone Above Units	300.0	mm
D	Depth of 95% Compacted Fill	106.0	mm
E	Max. Depth of Cover Allowed Above Crown of Chamber	3.7	meters
F	Chamber Width	1321.0	mm
G	Center to Center Spacing	1.47	meters

Breakdown of Storage Provided by

Recharger 330XLHD	Stormwater System	
Chambers	120.83	cu. meters
Feed Connectors	0.18	cu. meters
Stone	86.01	cu. meters
Total Storage Provided	207.02	cu. meters

CULTEC, Inc.
P.O. Box 280, Brookfield, CT 06804 USA
Phone: 203-775-4416 - Fax: 203-775-1482 - www.cultec.com

INFILTRATION GALLERY IG#1 DETAILS

Prepared For:	Project Information:	Engineer:	Calculations Performed By:
Name	Name	Name	Name
Company Name	Street Address	Company Name	Company Name
Street Address	City	Street Address	Street Address
City	State Zip	City	City
State Zip	Date: (mm/dd)	State Zip	State Zip
Phone		Phone	Phone
Fax		Fax	Fax
Email		Email	Email

Input Given Parameters

Unit of Measure	Metric	
Select Model	Contactor 100HD	
Stone Porosity	40.0%	
Number of Header Systems	2 Header	
Stone Depth **Above** Chamber	300	mm
Stone Depth **Below** Chamber	150	mm
Workable Bed Depth	2.00	meters
Max. Bed Width	3.00	meters
Storage Volume Required	26.80	cu. meters

Chamber Specifications

Height	318.0	mm
Width	914.00	mm
Length	2.44	meters
Installed Length	2.29	meters
Bare Chamber Volume	0.40	cu. meters
Installed Chamber Volume	0.95	cu. meters

Image for visual reference only.May not reflect selected model.

Bed Depth	0.90	meters
Bed Width	2.54	meters
Storage Volume Provided	30.00	cu. meters

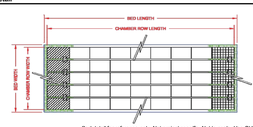
Materials List

Contactor 100HD Stormwater System by CULTEC, Inc.

Approx. Unit Count - not for construction	30	pieces
Actual Number of Chambers Required	26	pieces
Starter Chambers	2	pieces
Intermediate Chambers	0	pieces
End Chambers	24	pieces

HVLV SFCx2 Feed Connector	2	pieces
CULTEC No. 410™ Filter Fabric	226.10	sq. meters
CULTEC No. 20L Polyethylene Liner	5.08	meters
Stone	49.08	cu. meters

Bed Detail



Bed detail for reference only. Not project specific. Not to scale. Use CULTEC StormGenie to output project specific detail.

Number of Rows Wide	2	pieces
Number of Chambers Long	13	pieces
Chamber Row Width	1.93	meters
Chamber Row Length	29.87	meters
Bed Width	2.54	meters
Bed Length	30.48	meters
Bed Area Required	77.42	sq. meters

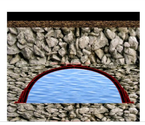
Project Name: Name **Date:** (mm/dd)

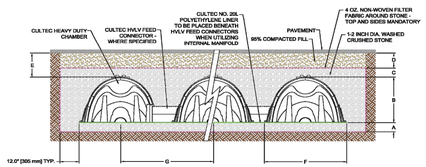
Cross Section Detail

Conceptual graphic only. Not job specific.

Contactor 100HD

Pavement	76	mm
95% Compacted Fill	55	mm
Stone Above	300	mm
Chamber Height	317.5	mm
Stone Below	150	mm
Effective Depth	767.8	mm
Bed Depth	899.4	mm





A	Depth of Stone Base	150.0	mm
B	Chamber Height	318.0	mm
C	Depth of Stone Above Units	300.0	mm
D	Depth of 95% Compacted Fill	55.0	mm
E	Max. Depth of Cover Allowed Above Crown of Chamber	3.7	meters
F	Chamber Width	914.0	mm
G	Center to Center Spacing	1.02	meters

Breakdown of Storage Provided by

Contactor 100HD	Stormwater System	
Chambers	10.36	cu. meters
Feed Connectors	0.01	cu. meters
Stone	19.64	cu. meters
Total Storage Provided	30.00	cu. meters

CULTEC, Inc.
P.O. Box 280, Brookfield, CT 06804 USA
Phone: 203-775-4416 - Fax: 203-775-1482 - www.cultec.com

INFILTRATION GALLERY IG#2 DETAILS

Prepared For:	Project Information:	Engineer:	Calculations Performed By:
Name	Name	Name	Name
Company Name	Street Address	Company Name	Company Name
Street Address	City	Street Address	Street Address
City	State Zip	City	City
State Zip	Date: (mm/dd)	State Zip	State Zip
Phone		Phone	Phone
Fax		Fax	Fax
Email		Email	Email

Input Given Parameters

Unit of Measure	Metric	
Select Model	Contactor 100HD	
Stone Porosity	40.0%	
Number of Header Systems	2 Header	
Stone Depth **Above** Chamber	300	mm
Stone Depth **Below** Chamber	150	mm
Workable Bed Depth	1.12	meters
Max. Bed Width	4.00	meters
Storage Volume Required	61.30	cu. meters

Chamber Specifications

Height	318.0	mm
Width	914.00	mm
Length	2.44	meters
Installed Length	2.29	meters
Bare Chamber Volume	0.40	cu. meters
Installed Chamber Volume	0.95	cu. meters

Image for visual reference only.May not reflect selected model.

Bed Depth	0.90	meters
Bed Width	3.56	meters
Storage Volume Provided	61.88	cu. meters

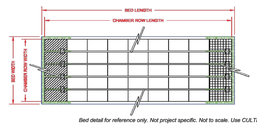
Materials List

Contactor 100HD Stormwater System by CULTEC, Inc.

Approx. Unit Count - not for construction	64	pieces
Actual Number of Chambers Required	57	pieces
Starter Chambers	3	pieces
Intermediate Chambers	0	pieces
End Chambers	54	pieces

HVLV SFCx2 Feed Connector	4	pieces
CULTEC No. 410™ Filter Fabric	426.42	sq. meters
CULTEC No. 20L Polyethylene Liner	7.11	meters
Stone	98.00	cu. meters

Bed Detail



Bed detail for reference only. Not project specific. Not to scale. Use CULTEC StormGenie to output project specific detail.

Number of Rows Wide	3	pieces
Number of Chambers Long	19	pieces
Chamber Row Width	2.95	meters
Chamber Row Length	43.59	meters
Bed Width	3.56	meters
Bed Length	44.20	meters
Bed Area Required	157.16	sq. meters

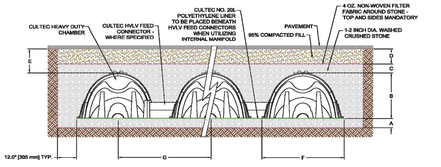
Project Name: Name **Date:** (mm/dd)

Cross Section Detail

Conceptual graphic only. Not job specific.

Contactor 100HD

Pavement	76	mm
95% Compacted Fill	55	mm
Stone Above	300	mm
Chamber Height	317.5	mm
Stone Below	150	mm
Effective Depth	767.8	mm
Bed Depth	899.4	mm



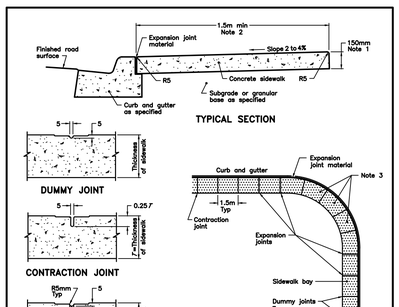
A	Depth of Stone Base	150.0	mm
B	Chamber Height	318.0	mm
C	Depth of Stone Above Units	300.0	mm
D	Depth of 95% Compacted Fill	55.0	mm
E	Max. Depth of Cover Allowed Above Crown of Chamber	3.7	meters
F	Chamber Width	914.0	mm
G	Center to Center Spacing	1.02	meters

Breakdown of Storage Provided by

Contactor 100HD	Stormwater System	
Chambers	22.67	cu. meters
Feed Connectors	0.01	cu. meters
Stone	39.20	cu. meters
Total Storage Provided	61.88	cu. meters

CULTEC, Inc.
P.O. Box 280, Brookfield, CT 06804 USA
Phone: 203-775-4416 - Fax: 203-775-1482 - www.cultec.com

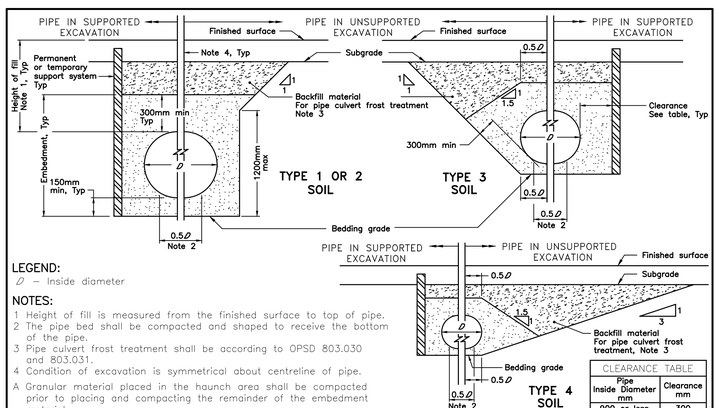
INFILTRATION GALLERY IG#3 DETAILS



NOTES:

1 At commercial and industrial driveways, the thickness shall be 200mm.
2 Sidewalk width shall be wider when specified.
3 This OPSD shall be read in conjunction with OPSD 310.030, 310.031, 310.032, 310.033 and 310.039.
A All dimensions are in millimetres unless otherwise shown.

ONTARIO PROVINCIAL STANDARD DRAWING	Nov 2015	Rev 2
CONCRETE SIDEWALK ADJACENT TO CURB AND GUTTER		OPSD 310.020



LEGEND:

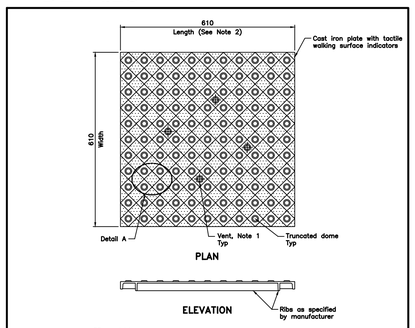
∅ – Inside diameter

NOTES:

1 Height of fill is measured from the finished surface to top of pipe.
2 The pipe bed shall be compacted and shaped to receive the bottom of the pipe.
3 Pipe culvert frost treatment shall be according to OPSD 803.030 and 803.031.
4 Condition of excavation is symmetrical about centreline of pipe.
A Granular material placed in the haunch area shall be compacted prior to placing and compacting the remainder of the embedment material.
B Soil types as defined in the Occupational Health and Safety Act and Regulations for Construction Projects.
C All dimensions are in metres unless otherwise shown.

CLEARANCE TABLE	
Pipe Inside Diameter mm	Clearance mm
900 or less	300
Over 900	500

ONTARIO PROVINCIAL STANDARD DRAWING	Nov 2014	Rev 3
FLEXIBLE PIPE EMBEDMENT AND BACKFILL EARTH EXCAVATION		OPSD 802.010



NOTES:

1 Vents shall be as specified by the manufacturer.
2 Length of plate may be increased to suit the curb depression width.
A Adjacent cast iron plates shall be permanently connected using a locking mechanism and any hardware shall be hot dipped galvanized.
B All dimensions are in millimetres unless otherwise shown.

ONTARIO PROVINCIAL STANDARD DRAWING	Nov 2015	Rev 0
CONCRETE SIDEWALK RAMPS TACTILE WALKING SURFACE INDICATORS COMPONENT		OPSD 310.039

4	MAR 25/25	THIRD SUBMISSION - REVISED BIKE RACK/DROP CURB/TACTILE PLATE	ARMH	SJC
3	SEPT 20/24	SECOND SUBMISSION	JHL	SJC
2	MAY 16/24	FIRST SUBMISSION	ARMH	SJC
1	MAR 07/24	PRELIMINARY SUBMISSION	ARMH	SJC
0	AUG 16/22	PRELIMINARY SUBMISSION	ARMH	SJC
No.	DATE	DESCRIPTION	BY	APPD

REVISION / ISSUE

Seal not valid unless signed and dated

COBIDE ENGINEERING INC
517 - 10th STREET, Hanover, Ontario N4N 1R4
Telephone: (519) 506-5959
www.cobideeng.com

Title:

PROPOSED RESIDENTIAL AND COMMERCIAL BUILDING
1032 GODERICH STREET
TOWN OF SAUGEEN SHORES
MISCELLANEOUS DETAILS 1

Client:	G.M. DIEMERT ARCHITECT INC.
Design: ARMH	Scale: AS SHOWN
Drawn: ARMH	Approved:
Checked: SJC	
Date: JUNE 2022	Design Engineer
DRAWING No.	05015-DET2

CULTEC RECHARGER® 330XLHD PRODUCT SPECIFICATIONS

GENERAL

CULTEC RECHARGER 330XLHD CHAMBERS ARE DESIGNED FOR UNDERGROUND STORMWATER MANAGEMENT. THE CHAMBERS MAY BE USED FOR RETENTION, RECHARGING, DETENTION OR CONTROLLING THE FLOW OF ON-SITE STORMWATER RUNOFF.

CHAMBER PARAMETERS

1. THE CHAMBERS WILL BE MANUFACTURED IN THE U.S.A. BY CULTEC, INC. OF BROOKFIELD, CT (203-775-4416 OR 1-800-428-5832).
2. THE CHAMBER WILL BE VACUUM THERMOFORMED OF BLACK POLYETHYLENE.
3. THE CHAMBER WILL BE ARCHED IN SHAPE.
4. THE CHAMBER WILL BE OPEN-BOTTOMED.
5. THE CHAMBER WILL BE JOINED USING AN INTERLOCKING OVERLAPPING RIB METHOD. CONNECTIONS MUST BE FULLY SHOULDERED OVERLAPPING RIBS, HAVING NO SEPARATE COUPLINGS OR SEPARATE END WALLS
6. THE NOMINAL CHAMBER DIMENSIONS OF THE CULTEC RECHARGER 330XLHD SHALL BE 30.5 INCHES (775 mm) TALL, 52 INCHES (1321 mm) WIDE AND 8.5 FEET (2.59 m) LONG. THE INSTALLED LENGTH OF A JOINED RECHARGER 330XLHD SHALL BE 7 FEET (2.13 m).
7. MAXIMUM INLET OPENING ON THE CHAMBER END WALL IS 24 INCHES (600 mm).
8. THE CHAMBER WILL HAVE TWO SIDE PORTALS TO ACCEPT CULTEC HVLV® FC-24 FEED CONNECTORS TO CREATE AN INTERNAL MANIFOLD. THE NOMINAL DIMENSIONS OF EACH SIDE PORTAL WILL BE 10.5 INCHES (267 mm) HIGH BY 11.5 INCHES (292 mm) WIDE. MAXIMUM ALLOWABLE OUTER DIAMETER (O.D.) PIPE SIZE IN THE SIDE PORTAL IS 11.75 INCHES (298 mm).
9. THE NOMINAL CHAMBER DIMENSIONS OF THE CULTEC HVLV FC-24 FEED CONNECTOR SHALL BE 12 INCHES (305 mm) TALL, 16 INCHES (406 mm) WIDE AND 24.2 INCHES (614 mm) LONG.
10. THE NOMINAL STORAGE VOLUME OF THE RECHARGER 330XLHD CHAMBER WILL BE 7.459 FT³ / FT (0.693 m³ / m) - WITHOUT STONE. THE NOMINAL STORAGE VOLUME OF A JOINED RECHARGER 330XLHD SHALL BE 52.213 FT³ / UNIT (1.478 m³ / UNIT) - WITHOUT STONE.
11. THE NOMINAL STORAGE VOLUME OF THE HVLV FC-24 FEED CONNECTOR WILL BE 0.913 FT³ / FT (0.085 m³ / m) - WITHOUT STONE.
12. THE RECHARGER 330XLHD CHAMBER WILL HAVE FIFTY-SIX DISCHARGE HOLES BORED INTO THE SIDEWALLS OF THE UNIT'S CORE TO PROMOTE LATERAL CONVEYANCE OF WATER.
13. THE RECHARGER 330XLHD CHAMBER SHALL HAVE 16 CORRUGATIONS.
14. THE END WALL OF THE CHAMBER, WHEN PRESENT, WILL BE AN INTEGRAL PART OF THE CONTINUOUSLY FORMED UNIT. SEPARATE END PLATES CANNOT BE USED WITH THIS UNIT.
15. THE RECHARGER 330XLHD STAND ALONE UNIT MUST BE FORMED AS A WHOLE CHAMBER HAVING TWO FULLY FORMED INTEGRAL END WALLS AND HAVING NO SEPARATE END PLATES OR SEPARATE END WALLS.
16. THE RECHARGER 330XLSHD STARTER UNIT MUST BE FORMED AS A WHOLE CHAMBER HAVING ONE FULLY FORMED INTEGRAL END WALL AND ONE PARTIALLY FORMED INTEGRAL END WALL WITH A LOWER TRANSFER OPENING OF 14 INCHES (356 mm) HIGH X 34.5 INCHES (876 mm) WIDE.
17. THE RECHARGER 330XLHD INTERMEDIATE UNIT MUST BE FORMED AS A WHOLE CHAMBER HAVING ONE FULLY OPEN ENDWALL AND ONE PARTIALLY FORMED INTEGRAL END WALL WITH A LOWER TRANSFER OPENING OF 14 INCHES (356 mm) HIGH X 34.5 INCHES (876 mm) WIDE.
18. THE RECHARGER 330XLEHD END UNIT MUST BE FORMED AS A WHOLE CHAMBER HAVING ONE FULLY FORMED INTEGRAL END WALL AND ONE FULLY OPEN END WALL AND HAVING NO SEPARATE END PLATES OR END WALLS.
19. THE HVLV FC-24 FEED CONNECTOR MUST BE FORMED AS A WHOLE CHAMBER HAVING TWO OPEN END WALLS AND HAVING NO SEPARATE END PLATES OR SEPARATE END WALLS. THE UNIT WILL FIT INTO THE SIDE PORTALS OF THE RECHARGER 330XLHD AND ACT AS CROSS FEED CONNECTIONS.
20. CHAMBERS MUST HAVE HORIZONTAL STIFFENING FLEX REDUCTION STEPS BETWEEN THE RIBS.
21. HEAVY DUTY UNITS ARE DESIGNATED BY A COLORED STRIPE FORMED INTO THE PART ALONG THE LENGTH OF THE CHAMBER.
22. THE CHAMBER WILL HAVE A 6 INCH (152 mm) DIAMETER RAISED INTEGRAL CAP LOCATED ON TOP OF THE ARCH IN THE CENTER OF EACH UNIT TO BE USED AS AN OPTIONAL INSPECTION PORT OR CLEAN-OUT.
23. THE UNITS MAY BE TRIMMED TO CUSTOM LENGTHS BY CUTTING BACK TO ANY CORRUGATION.
24. THE CHAMBER SHALL BE MANUFACTURED IN AN ISO 9001:2008 CERTIFIED FACILITY.
25. MAXIMUM ALLOWED COVER OVER TOP OF UNIT SHALL BE 12 FEET (3.66 m)
26. THE CHAMBER WILL BE DESIGNED TO WITHSTAND TRAFFIC LOADS WHEN INSTALLED ACCORDING TO CULTEC'S RECOMMENDED INSTALLATION INSTRUCTIONS.

CULTEC HVLV FC-24 FEED CONNECTOR PRODUCT SPECIFICATIONS

GENERAL

CULTEC HVLV FC-24 FEED CONNECTORS ARE DESIGNED TO CREATE AN INTERNAL MANIFOLD FOR CULTEC RECHARGER MODEL 330XLHD STORMWATER CHAMBERS.

CHAMBER PARAMETERS

1. THE CHAMBERS WILL BE MANUFACTURED BY CULTEC, INC. OF BROOKFIELD, CT. (203-775-4416 OR 1-800-428-5832)
2. THE CHAMBER WILL BE VACUUM THERMOFORMED OF BLACK HIGH MOLECULAR WEIGHT HIGH DENSITY POLYETHYLENE (HMWHDPE).
3. THE CHAMBER WILL BE ARCHED IN SHAPE.
4. THE CHAMBER WILL BE OPEN-BOTTOMED.
5. THE NOMINAL CHAMBER DIMENSIONS OF THE CULTEC HVLV FC-24 FEED CONNECTOR SHALL BE 12 INCHES (305 mm) TALL, 16 INCHES (406 mm) WIDE AND 24.2 INCHES (614 mm) LONG.
6. THE NOMINAL STORAGE VOLUME OF THE HVLV FC-24 FEED CONNECTOR WILL BE 0.913 FT³ / FT (0.085 m³ / m) - WITHOUT STONE.
7. THE HVLV FC-24 FEED CONNECTOR CHAMBER SHALL HAVE 2 CORRUGATIONS.
8. THE HVLV FC-24 FEED CONNECTOR MUST BE FORMED AS A WHOLE CHAMBER HAVING TWO OPEN END WALLS AND HAVING NO SEPARATE END PLATES OR SEPARATE END WALLS. THE UNIT WILL FIT INTO THE SIDE PORTALS OF THE CULTEC RECHARGER STORMWATER CHAMBER AND ACT AS CROSS FEED CONNECTIONS CREATING AN INTERNAL MANIFOLD.
9. THE CHAMBER WILL BE DESIGNED TO WITHSTAND TRAFFIC LOADS WHEN INSTALLED ACCORDING TO CULTEC'S RECOMMENDED INSTALLATION INSTRUCTIONS.
10. THE CHAMBER SHALL BE MANUFACTURED IN AN ISO 9001:2008 CERTIFIED FACILITY.

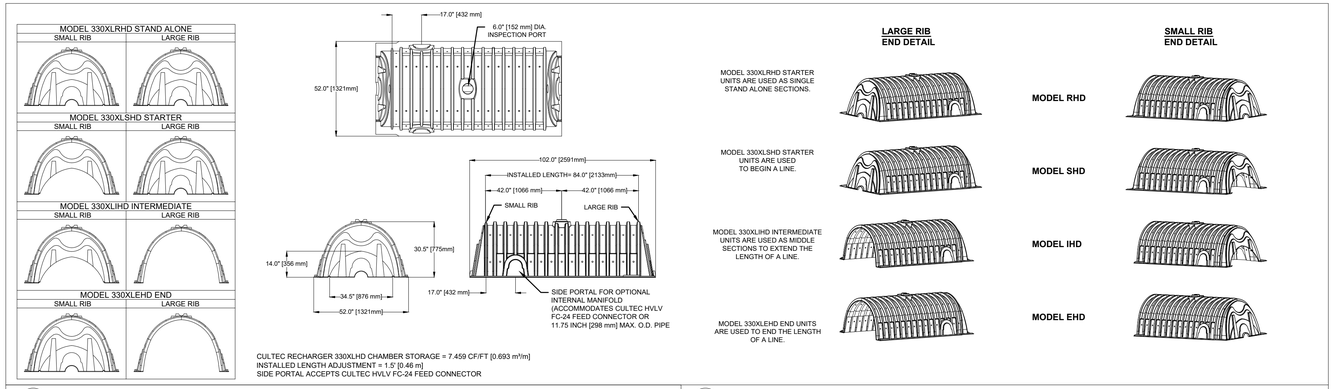
CULTEC NO. 66™ WOVEN GEOTEXTILE

GENERAL

CULTEC NO. 66™ WOVEN GEOTEXTILE IS UTILIZED AS AN UNDERLAYMENT TO PREVENT SCOURING CAUSED BY WATER MOVEMENT WITHIN THE CULTEC CHAMBERS AND FEED CONNECTORS UTILIZING THE CULTEC MANIFOLD FEATURE.

GEOTEXTILE PARAMETERS

1. THE GEOTEXTILE SHALL BE PROVIDED BY CULTEC, INC. OF BROOKFIELD, CT. (203-775-4416 OR 1-800-428-5832)
2. THE GEOTEXTILE SHALL BE BLACK IN APPEARANCE.
3. THE GEOTEXTILE SHALL HAVE A TENSILE STRENGTH OF 315 LBS (1.40KN) PER ASTM D4632 TESTING METHOD.
4. THE GEOTEXTILE SHALL HAVE A TENSILE ELONGATION RESISTANCE OF 15% PER ASTM D4632 TESTING METHOD.
5. THE GEOTEXTILE SHALL HAVE A MULLEN BURST RESISTANCE OF 600PSI (4138 KPA) PER ASTM D3786 TESTING METHOD.
6. THE GEOTEXTILE SHALL HAVE A TEAR RESISTANCE OF 115 LBS (0.51 KN) PER ASTM D4533 TESTING METHOD.
7. THE GEOTEXTILE SHALL HAVE A PUNCTURE RESISTANCE OF 150 LBS (0.66 KN) PER ASTM D4833 TESTING METHOD.
8. THE GEOTEXTILE SHALL HAVE A CBR PUNCTURE RESISTANCE OF 900 LBS (4.00 KN) PER ASTM D6241 TESTING METHOD.
9. THE GEOTEXTILE SHALL HAVE A UV RESISTANCE OF 70% @ 500 HRS. PER ASTM D4355 TESTING METHOD.
10. THE GEOTEXTILE SHALL HAVE A PERMITTIVITY RATING OF 0.05 SEC-1 PER ASTM D4491 TESTING METHOD.
11. THE GEOTEXTILE SHALL HAVE A WATER FLOW RATING OF 4 GPM/FT2 (160 LPM/M2) PER ASTM D4491 TESTING METHOD.
12. THE GEOTEXTILE SHALL HAVE A PERCENT OPEN AREA OF <1% PER CW-02215 TESTING METHOD.
13. THE GEOTEXTILE SHALL HAVE AN APPARENT OPENING SIZE OF 40 US STD. SIEVE (0.425 MM) PER ASTM D4751 TESTING METHOD.
14. THE GEOTEXTILE SHALL CONSIST OF A 100% HIGH-TENACITY, SILT-FILM POLYPROPYLENE YARNS.

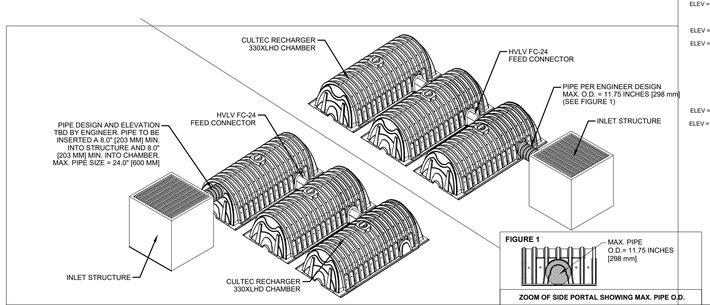


CULTEC RECHARGER 330XLHD CHAMBER STORAGE = 7.459 CF/FT [0.693 m³/m]
INSTALLED LENGTH ADJUSTMENT = 1.5' [0.46 m]
SIDE PORTAL ACCEPTS CULTEC HVLV FC-24 FEED CONNECTOR

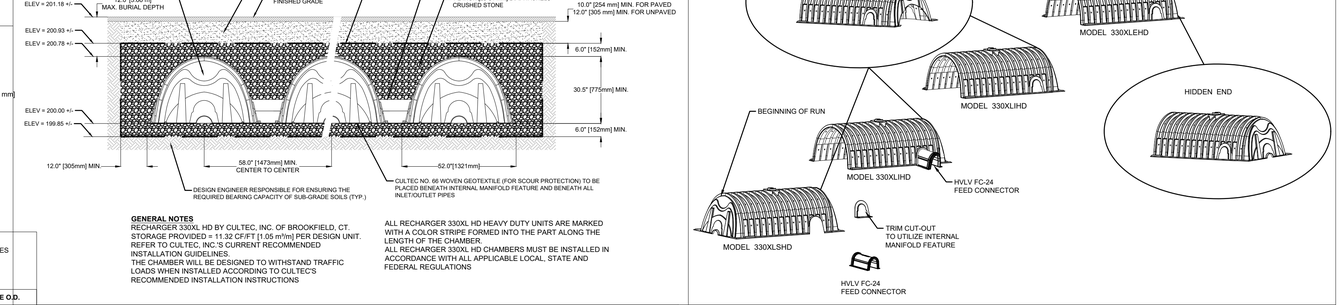
330XLHD 2.0 — **CULTEC RECHARGER 330XLHD HEAVY DUTY THREE VIEW**

330XLHD 3.0 — **CULTEC RECHARGER 330XLHD HEAVY DUTY END DETAIL INFORMATION**

330XLHD 1.0 — **GENERAL NOTES**



330XLHD 4.0 — **CULTEC TYPICAL INLET CONNECTION**



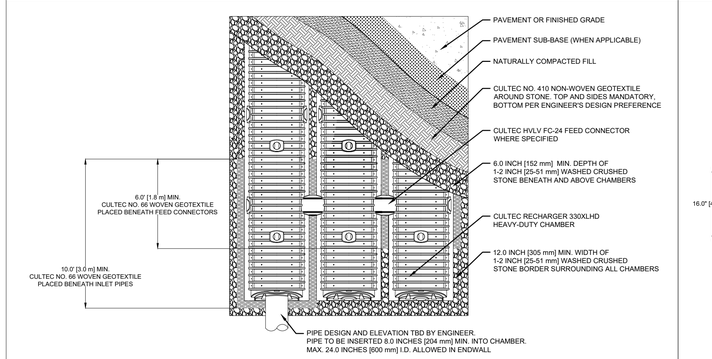
GENERAL NOTES

RECHARGER 330XL HD BY CULTEC, INC. OF BROOKFIELD, CT.
STORAGE PROVIDED = 11.32 CF/FT [1.05 m³/m] PER DESIGN UNIT.
REFER TO CULTEC, INC.'S CURRENT RECOMMENDED INSTALLATION GUIDELINES.
THE CHAMBER WILL BE DESIGNED TO WITHSTAND TRAFFIC LOADS WHEN INSTALLED ACCORDING TO CULTEC'S RECOMMENDED INSTALLATION INSTRUCTIONS

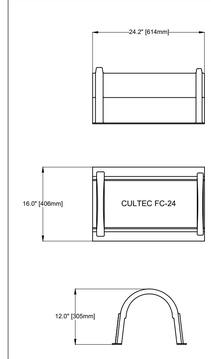
ALL RECHARGER 330XL HD HEAVY DUTY UNITS ARE MARKED WITH A COLOR STRIPE FORMED INTO THE PART ALONG THE LENGTH OF THE CHAMBER.
ALL RECHARGER 330XL HD CHAMBERS MUST BE INSTALLED IN ACCORDANCE WITH ALL APPLICABLE LOCAL, STATE AND FEDERAL REGULATIONS

330XLHD 5.0 — **CULTEC RECHARGER 330XLHD HEAVY DUTY TYPICAL CROSS SECTION**

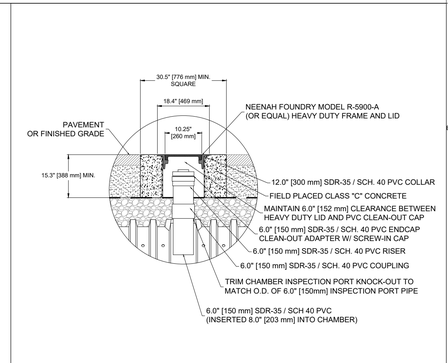
330XLHD 6.0 — **CULTEC RECHARGER 330XLHD HEAVY DUTY TYPICAL INTERLOCK**



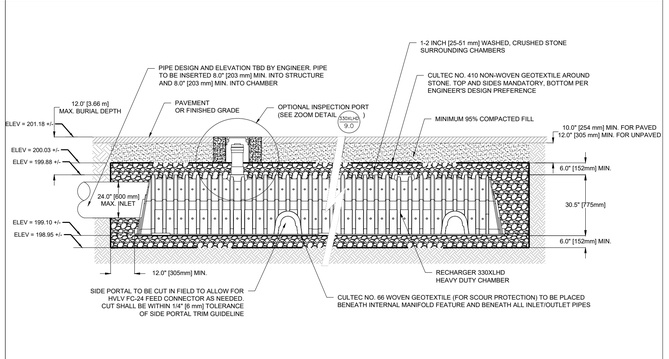
330XLHD 7.0 — **CULTEC RECHARGER 330XLHD HEAVY DUTY PLAN VIEW**



330XLHD 8.0 — **CULTEC HVLV FC-24 FEED CONNECTOR THREE VIEW**



330XLHD 9.0 — **OPTIONAL INSPECTION PORT- ZOOM DETAIL**



330XLHD 10.0 — **CULTEC INTERNAL MANIFOLD- OPTIONAL INSPECTION PORT DETAIL**

CULTEC, Inc.
Subsurface Stormwater Management Systems
P.O. Box 280
878 Federal Road
Brookfield, CT 06804
www.cultec.com
PH: (203) 775-4416
PH: (800) 4-CULTEC
FX: (203) 775-1462
tech@cultec.com

RECHARGER 330XLHD
DETAIL SHEET
TRAFFIC APPLICATION

CULTEC RECHARGER® 330XLHD

PROJECT NO:	-	DATE:	02/2016
DESIGNED BY:	CULTEC, INC	DRAWN BY:	TECH
SCALE:	N.T.S.	SHEET NO:	1 OF 2

No.	DATE	DESCRIPTION	BY	APPD
4	MAR 25/25	THIRD SUBMISSION - REVISED BIKE RACK/DROP CURB/TACTILE PLATE	ARMH	SJC
3	SEPT 20/24	SECOND SUBMISSION	JHL	SJC
2	MAY 16/24	FIRST SUBMISSION	ARMH	SJC
1	MAR 07/24	PRELIMINARY SUBMISSION	ARMH	SJC
0	AUG 16/22	PRELIMINARY SUBMISSION	ARMH	SJC

REVISION / ISSUE

Seal not valid unless signed and dated

LICENSED PROFESSIONAL ENGINEER — 03/25/2025 — S. J. COBEAN — PROVINCE OF ONTARIO

COBIDE ENGINEERING INC
517 - 10th STREET, Hanover, Ontario N4N 1R4
Telephone: (519) 506-5959
www.cobideeng.com

Title:

PROPOSED RESIDENTIAL AND COMMERCIAL BUILDING
1032 GODERICH STREET
TOWN OF SAUGEEN SHORES
MISCELLANEOUS DETAILS 2

Client: G.M. DIEMERT ARCHITECT INC.

Design:	ARMH	Scale:	AS SHOWN
Drawn:	ARMH	Approved:	
Checked:	SJC		
Date:	JUNE 2022		Design Engineer

DRAWING No. 05015-DET3

H:\GM Diemert Architects\05015 - 1032 Goderich Street Commercial Development - Port Elgin\Drawings\Submissions\2025-03-25 Third Submission\05015 Det1-2-3.dwg Mar 25, 2025 - 1:50pm