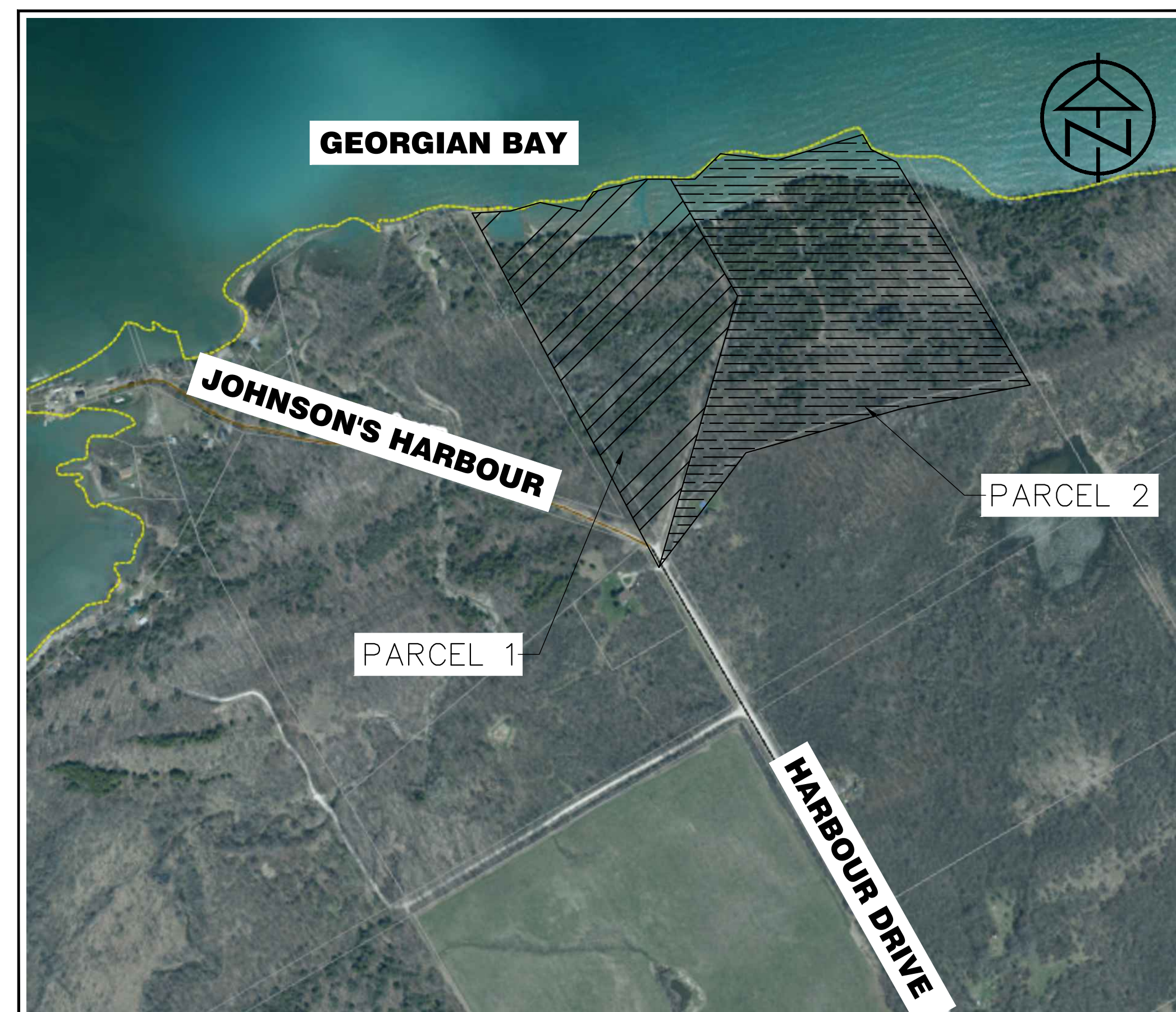


AQORPIONS ECO RETREAT MUNICIPALITY OF MEAFORD



KEY PLAN

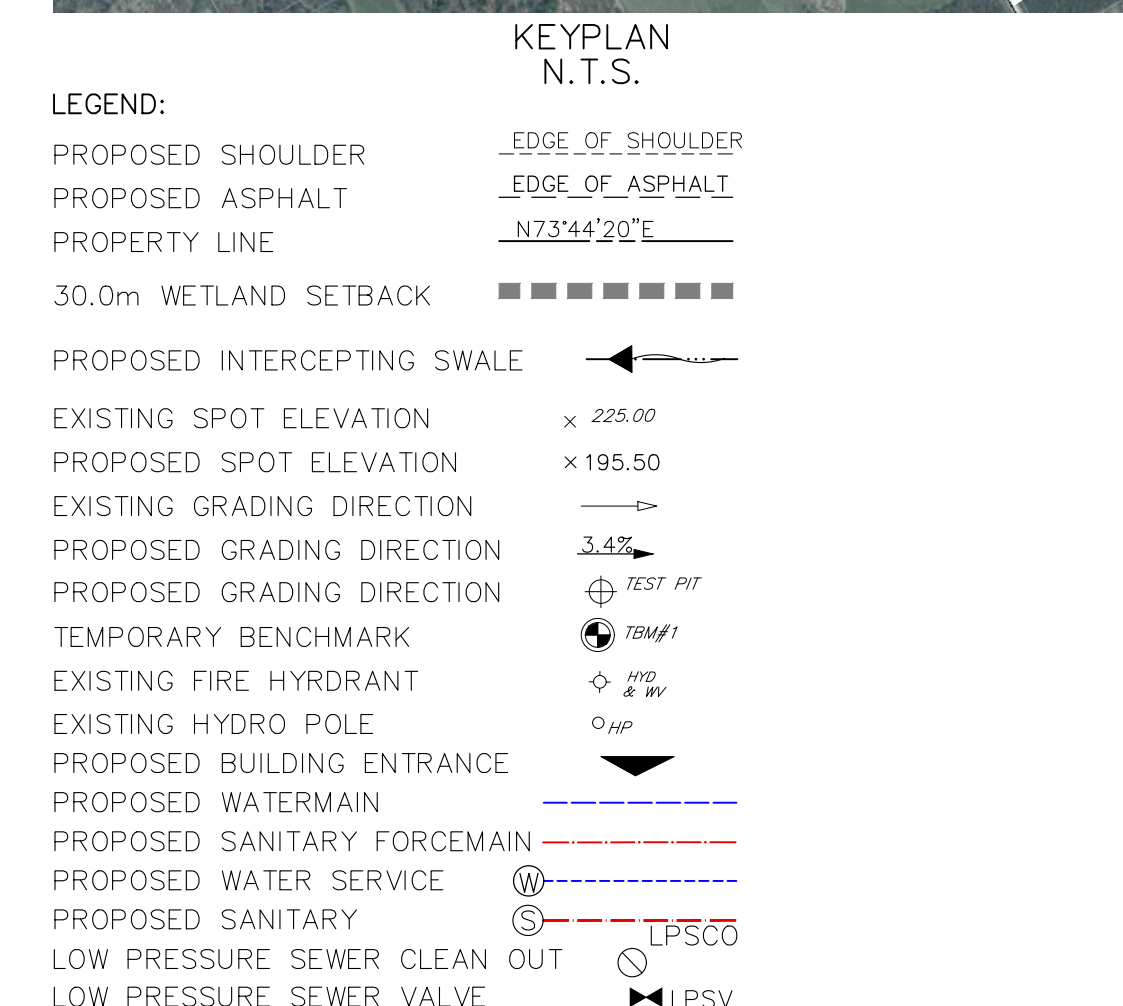
INDEX

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SC-1	SILTATION AND EROSION CONTROL PLAN
SD-1	SEPTIC DESIGN PLAN
DE-1	GENERAL NOTES AND DETAILS

LEGEND

PROPERTY LINE	
EXISTING CENTERLINE	
PROPOSED CENTRELINE	
EXISTING EDGE OF ASPHALT	
PROPOSED EDGE OF ASPHALT	
EXISTING EDGE OF SHOULDER	
PROPOSED EDGE OF SHOULDER	
EXISTING DITCH/DIRECTION OF FLOW	
PROPOSED DITCH/DIRECTION OF FLOW	
EXISTING SANITARY SEWER/SIZE/DIRECTION OF FLOW	
PROPOSED SANITARY SEWER/SIZE/DIRECTION OF FLOW	
EXISTING SANITARY SERVICE	
PROPOSED SANITARY SERVICE	
EXISTING SANITARY FORCEMAIN/SIZE/DIRECTION OF FLOW	
EXISTING WATERMAIN/SIZE	
PROPOSED WATERMAIN/SIZE	
EXISTING WATER SERVICE	
PROPOSED WATER SERVICE	
EXISTING STORM SEWER/SIZE/DIRECTION OF FLOW	
PROPOSED STORM SEWER/SIZE/DIRECTION OF FLOW	
EXISTING STORM SERVICE	
PROPOSED STORM SERVICE	
EXISTING CULVERT	
PROPOSED CULVERT	
PROPOSED SWALE LOCATION	
PROPOSED JOINT HYDRO, BELL AND ROGERS	
EXISTING GAS MAIN	
PROPOSED GAS MAIN	
EXISTING FENCELINE	
PROPOSED FENCELINE	
EXISTING BUSHLINE	
EXISTING CONTOUR	
EXISTING SPOT ELEVATION	
PROPOSED SPOT ELEVATION	
EXISTING GRADING DIRECTION	
PROPOSED GRADING DIRECTION	
PROPOSED REAR YARD OVERFLOW ROUTE	
PROPOSED SWALE LOCATION	
EXISTING TEMPORARY BENCHMARK	
EXISTING STANDARD IRON BAR	
EXISTING BOREHOLE/NUMBER	
EXISTING HYDRO TRANSFORMER	
EXISTING CABLE PEDESTAL	
EXISTING BELL PEDESTAL	
EXISTING BELL MAINTENANCE HOLE	
EXISTING BELL POLE	
EXISTING HYDRO POLE	
EXISTING HYDRO GUY WIRE	
PROPOSED LIGHT STANDARD	
EXISTING TRAFFIC SIGN	
PROPOSED TRAFFIC SIGN	
PROPOSED STOP SIGN	
PROPOSED STREET NAME SIGN	
EXISTING DECIDUOUS TREE	
EXISTING CONIFEROUS TREE	
EXISTING SANITARY MAINTENANCE HOLE/NUMBER	
PROPOSED SANITARY MAINTENANCE HOLE/NUMBER	
EXISTING HYDRANT AND VALVE	
PROPOSED HYDRANT AND VALVE	
EXISTING WATER VALVE	
PROPOSED WATER VALVE	
PROPOSED CURB STOP VALVE	
EXISTING BLOW-OFF	
PROPOSED BLOW-OFF	
EXISTING WM. AUTOFLUSHER	
PROPOSED WM. AUTOFLUSHER	
EXISTING WATERMAIN TERMINATION POINT	
PROPOSED WATERMAIN TERMINATION POINT	
EXISTING STORM MAINTENANCE HOLE	
PROPOSED STORM MAINTENANCE HOLE/NUMBER	
EXISTING CATCH BASIN	
PROPOSED CATCH BASIN	
PROPOSED CATCH BASIN MAINTENANCE HOLE/NUMBER	
PROPOSED DOUBLE CATCH BASIN MAINTENANCE HOLE/NUMBER	
PROPOSED DOUBLE CATCH BASIN	
PROPOSED DITCH INLET CATCH BASIN	
PROPOSED RIP-RAP	

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			1.	FIRST SUBMISSION	APR 19/22				DRAWN: ADM	DATE: DEC 9/21	
									CHECK: DC	SCALE: NTS	
							DRAWING INDEX AND LEGEND				



BUILDING ID	WATER SERVICE INV.	SANITARY SERVICE INV.
WD 01	178.10	178.60
WD 02	178.10	178.60
WD 03	178.10	178.60
WD 04	180.50	181.00
WD 05	180.75	181.25
WD 06	179.50	180.00
WD 07	179.75	180.25
RD 01	180.55	181.05
RD 02	179.60	180.10
RD 03	179.20	179.70
RD 04	181.00	181.50
RS 01	180.95	181.45
RS 02	181.00	181.50
RS 03	182.25	182.75
RS 04	182.25	182.75
BATHROOMS	180.70	181.20

TATHAM ENGINEERING LIMITED CLAIMS COPYRIGHT TO
THIS DRAWING WHICH MAY NOT BE USED FOR ANY
PURPOSE OTHER THAN THAT PROVIDED IN THE
CONTRACT BETWEEN THE OWNER/CLIENT AND THE
ENGINEER WITHOUT THE EXPRESS CONSENT OF
TATHAM ENGINEERING LIMITED.



GENERAL SERVICING PLAN

DESIGN: ADM	FILE: 120218
DRAWN: ADM	DATE: NOV 2021
CHECK: DC	SCALE: 1: 500

DWG:	GS01
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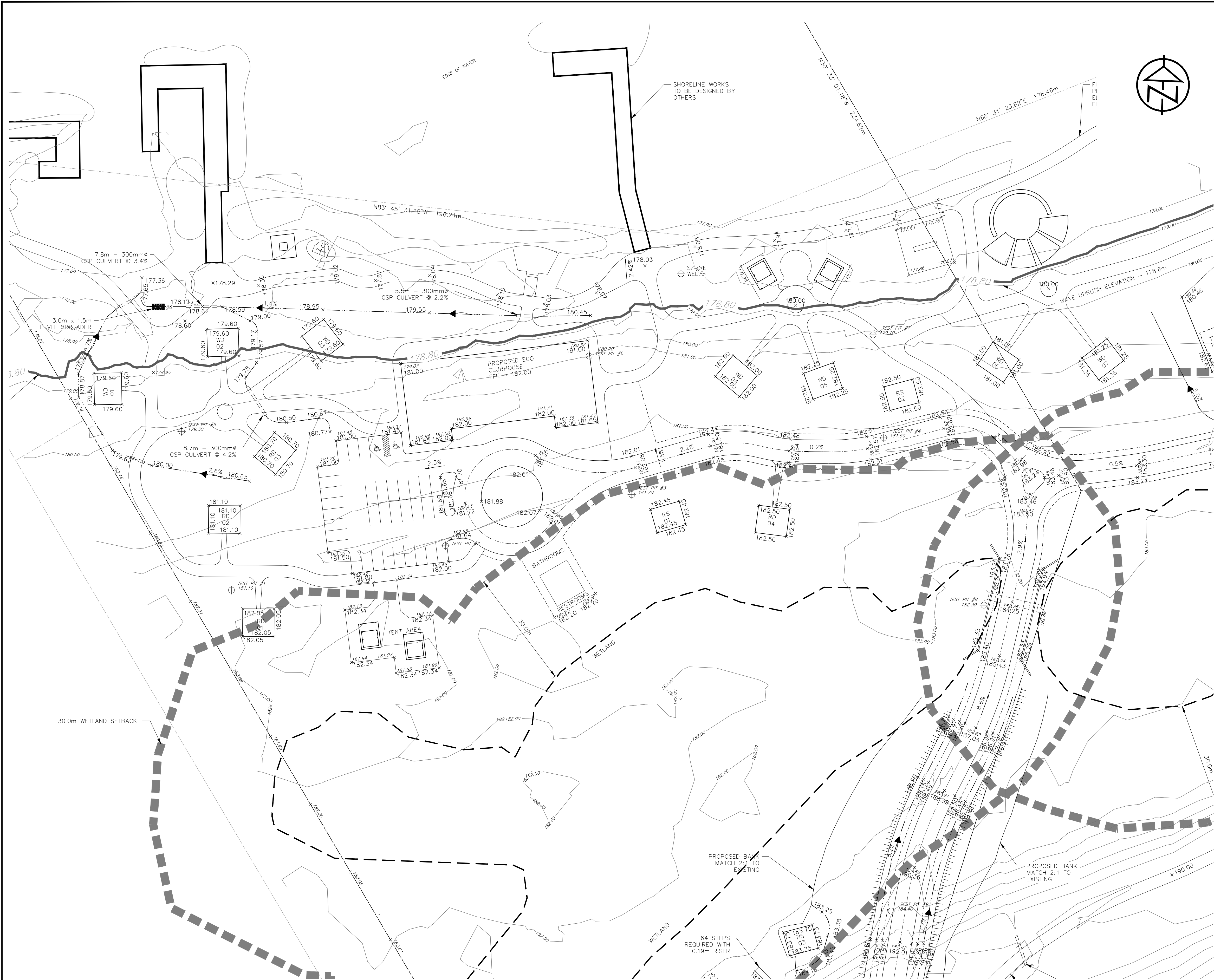


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			1.	FIRST SUBMISSION	APR 19/22							
GENERAL SERVICING PLAN								DESIGN: ADM	FILE: 120218	DWG:		
								DRAWN: ADM	DATE: NOV 2021	GS02		
								CHECK: DC	SCALE: 1:500			



- LEGEND:
- PROPOSED SHOULDER: _EDGE_OF_SHOULDER_
 - PROPOSED ASPHALT: _EDGE_OF ASPHALT_
 - PROPERTY LINE: N73°44'20"E
 - 30.0m WETLAND SETBACK: [thick dashed line]
 - PROPOSED INTERCEPTING SWALE: [line with arrow]
 - EXISTING SPOT ELEVATION: x 225.00
 - PROPOSED SPOT ELEVATION: x 195.50
 - EXISTING GRADING DIRECTION: [arrow]
 - PROPOSED GRADING DIRECTION: 3.4% [arrow]
 - PROPOSED GRADING DIRECTION: TEST PIT [circle with cross]
 - TEMPORARY BENCHMARK: TBM#1 [circle with cross]
 - EXISTING FIRE HYDRANT: [diamond with cross]
 - EXISTING HYDRO POLE: HP [circle]
 - PROPOSED BUILDING ENTRANCE: [arrow pointing down]
 - PROPOSED WATERMAIN: [blue dashed line]
 - PROPOSED SANITARY FORCEMAIN: [red dashed line]
 - PROPOSED WATER SERVICE: [blue dashed line]
 - PROPOSED SANITARY: [red dashed line]
 - LOW PRESSURE SEWER CLEAN OUT: LPSCO [circle with cross]
 - LOW PRESSURE SEWER VALVE: LPSV [arrow pointing right]

DISCLAIMER AND COPYRIGHT CONTRACTOR MUST VERIFY ALL DIMENSIONS AND BE RESPONSIBLE FOR SAME. ANY DISCREPANCIES MUST BE REPORTED TO THE ENGINEER BEFORE COMMENCING WORK. DRAWINGS ARE NOT TO BE SCALED. TATHAM ENGINEERING LIMITED CLAIMS COPYRIGHT TO THIS DRAWING WHICH MAY NOT BE USED FOR ANY PURPOSE OTHER THAN THAT PROVIDED IN THE CONTRACT BETWEEN THE OWNER/CLIENT AND THE ENGINEER WITHOUT THE EXPRESS CONSENT OF TATHAM ENGINEERING LIMITED.	BENCHMARKS	NOTES	No.	REVISION DESCRIPTION	DATE	ENGINEER STAMP 	AQORPIONS ECO RETREAT MUNICIPALITY OF MEAFORD	 DESIGN: ADM FILE: 120218 DRAWN: ADM DATE: NOV 2021 CHECK: DC SCALE: 1:500 GS03		
			1.	FIRST SUBMISSION	APR 19/22					



KEYPLAN
N.T.S.

GROUNDWATER	
TEST PIT #1	ELEVATION: 182.50 GROUNDWATER: 181.10
TEST PIT #2	ELEVATION: 182.70 GROUNDWATER: ---
TEST PIT #3	ELEVATION: 182.50 GROUNDWATER: 181.70
TEST PIT #4	ELEVATION: 182.50 GROUNDWATER: 181.50
TEST PIT #5	ELEVATION: 180.10 GROUNDWATER: 179.30
TEST PIT #6	ELEVATION: 181.00 GROUNDWATER: 180.70
TEST PIT #7	ELEVATION: 180.30 GROUNDWATER: 179.10
TEST PIT #8	ELEVATION: 182.60 GROUNDWATER: 182.30
TEST PIT #9	ELEVATION: 186.10 GROUNDWATER: 184.40

NOTE: GROUNDWATER ELEVATIONS BASED ON TEST PITS PROVIDED BY RJ BURNSIDE. COMPLETED ON MARCH 28, 2017.

PROPOSED SHOULDER	EDGE OF SHOULDER
PROPOSED ASPHALT	EDGE OF ASPHALT
PROPERTY LINE	N73°44'20"E
30.0m WETLAND SETBACK	-----
PROPOSED INTERCEPTING SWALE	-----
EXISTING SPOT ELEVATION	x 225.00
PROPOSED SPOT ELEVATION	x 195.50
EXISTING GRADING DIRECTION	-----
PROPOSED GRADING DIRECTION	3.4%
PROPOSED GRADING DIRECTION	-----
TEMPORARY BENCHMARK	TBM#1
EXISTING FIRE HYDRANT	HP
EXISTING HYDRO POLE	HP
PROPOSED BUILDING ENTRANCE	-----

BUILDING ID	FFE
WD 01	179.80
WD 02	179.80
WD 03	179.80
WD 04	182.20
WD 05	182.45
WD 06	181.20
WD 07	181.45
RD 01	182.25
RD 02	181.30
RD 03	180.90
RD 04	182.70
RS 01	182.65
RS 02	182.30
RS 03	183.95
RS 04	183.95
MH	203.75
TENT AREA	182.30
BATHROOMS	182.30

DISCLAIMER AND COPYRIGHT

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BENCHMARKS

NOTES

No.	REVISION DESCRIPTION	DATE
1.	FIRST SUBMISSION	APR 19/22

ENGINEER STAMP

2022.04.19

D. M. CASULLO

PROVINCE OF ONTARIO

AQORPIONS ECO RETREAT

MUNICIPALITY OF MEAFORD

DESIGN: ADM

DRAWN: ADM

CHECK: DC

FILE: 120218

DATE: NOV 2021

SCALE: 1:500

DWG: **LG01**

LOT GRADING PLAN



BUILDING ID	FFE
WD 01	179.80
WD 02	179.80
WD 03	179.80
WD 04	182.20
WD 05	182.45
WD 06	181.20
WD 07	181.45
RD 01	182.25
RD 02	181.30
RD 03	180.90
RD 04	182.70
RS 01	182.65
RS 02	182.30
RS 03	183.95
RS 04	183.95
MH	203.75
TENT AREA	182.30
BATHROOMS	182.30

DISCLAIMER AND COPYRIGHT

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BENCHMARKS

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No.	REVISION DESCRIPTION	DATE
1.	FIRST SUBMISSION	APR 19/22

ENGINEER STAMP

AQORPIONS ECO RETREAT

MUNICIPALITY OF MEAFORD

LOT GRADING PLAN

DESIGN: ADM

DRAWN: ADM

CHECK: DC

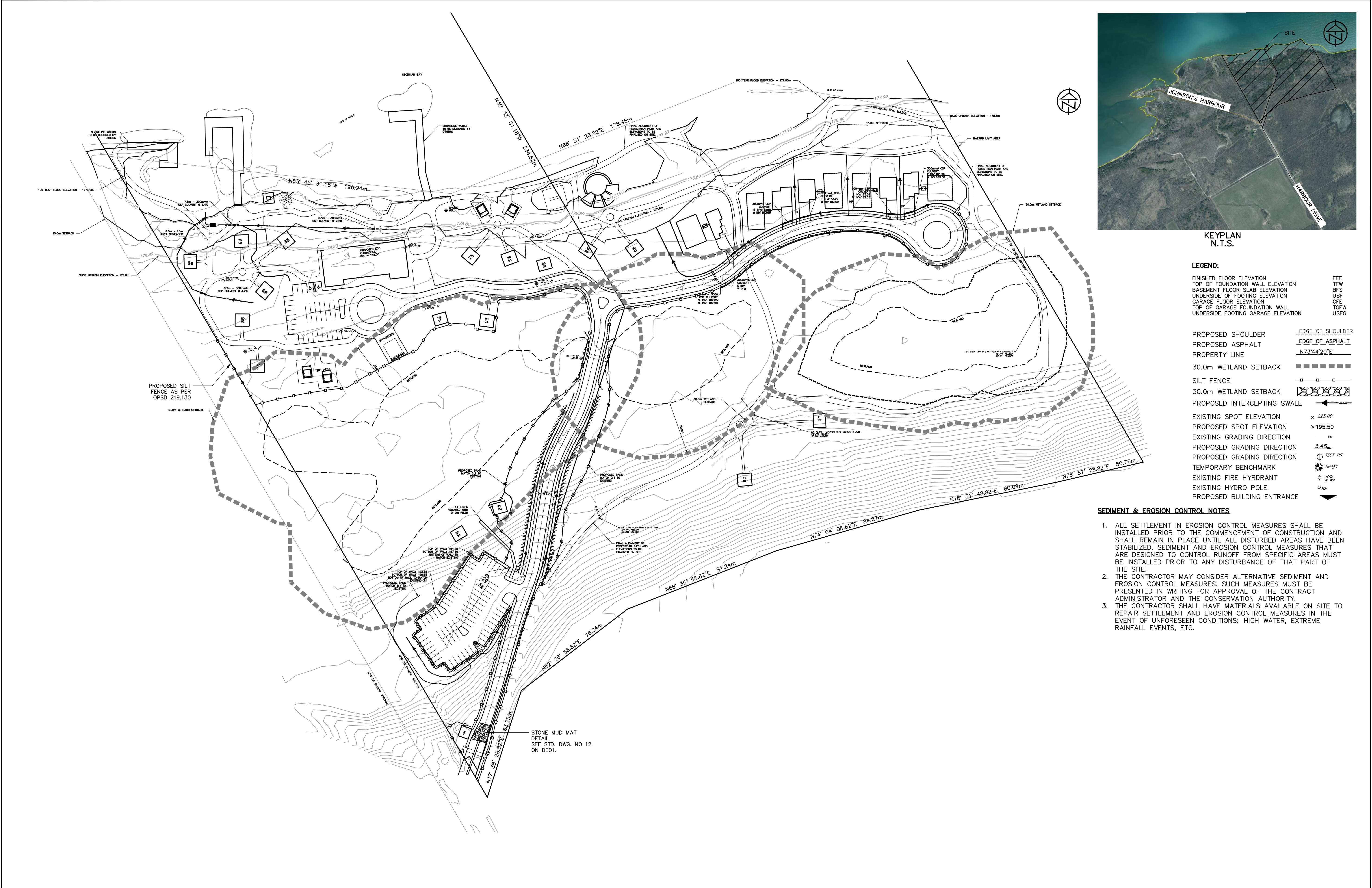
FILE: 120218

DATE: NOV 2021

SCALE: 1:500

DWG:

LG03



KEYPLAN
N.T.S.

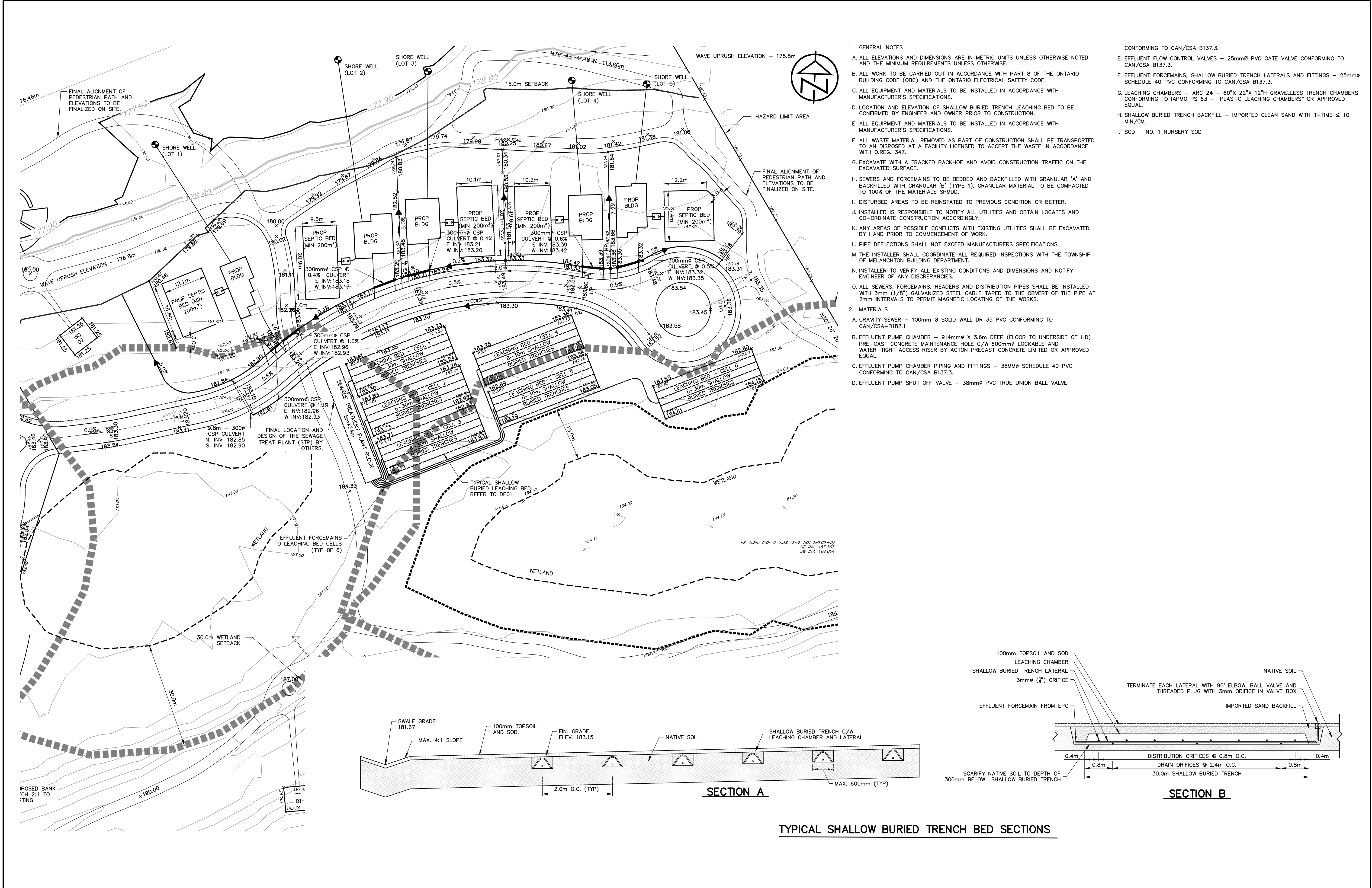
LEGEND:

- | | |
|------------------------------------|------|
| FINISHED FLOOR ELEVATION | FFE |
| TOP OF FOUNDATION WALL ELEVATION | TFW |
| BASEMENT FLOOR SLAB ELEVATION | BFS |
| UNDERSIDE OF FOOTING ELEVATION | USF |
| GARAGE FLOOR ELEVATION | GFE |
| TOP OF GARAGE FOUNDATION WALL | TGFW |
| UNDERSIDE FOOTING GARAGE ELEVATION | USFG |
-
- | | |
|-----------------------------|------------------|
| PROPOSED SHOULDER | EDGE OF SHOULDER |
| PROPOSED ASPHALT | EDGE OF ASPHALT |
| PROPERTY LINE | N73°44'20"E |
| 30.0m WETLAND SETBACK | |
| SILT FENCE | |
| 30.0m WETLAND SETBACK | |
| PROPOSED INTERCEPTING SWALE | |
| EXISTING SPOT ELEVATION | × 225.00 |
| PROPOSED SPOT ELEVATION | × 195.50 |
| EXISTING GRADING DIRECTION | |
| PROPOSED GRADING DIRECTION | 3.4% |
| PROPOSED GRADING DIRECTION | TEST PIT |
| TEMPORARY BENCHMARK | TEMP 1 |
| EXISTING FIRE HYDRANT | HYD & WV |
| EXISTING HYDRO POLE | HP |
| PROPOSED BUILDING ENTRANCE | |

SEDIMENT & EROSION CONTROL NOTES

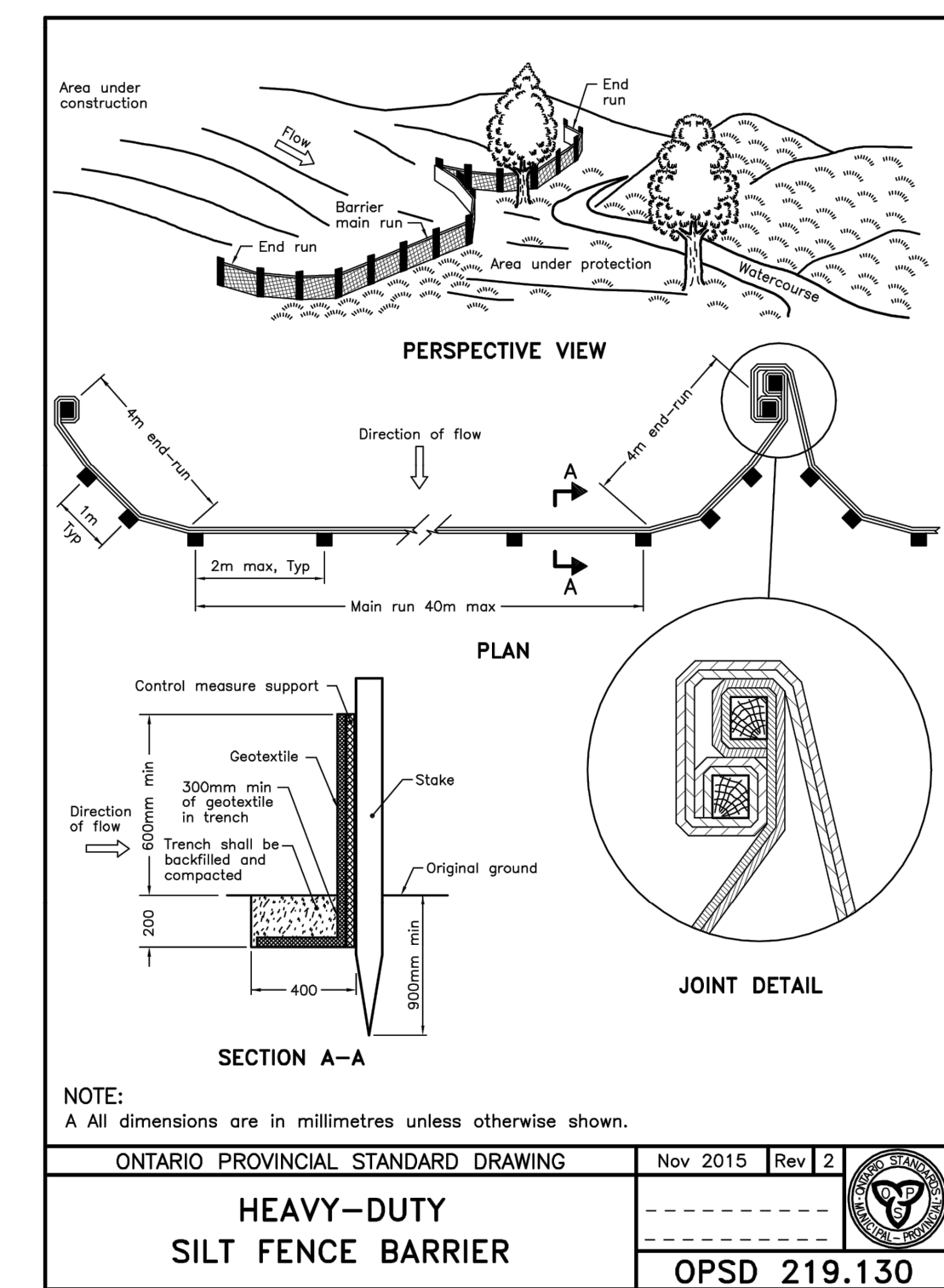
1. ALL SETTLEMENT IN EROSION CONTROL MEASURES SHALL BE INSTALLED PRIOR TO THE COMMENCEMENT OF CONSTRUCTION AND SHALL REMAIN IN PLACE UNTIL ALL DISTURBED AREAS HAVE BEEN STABILIZED. SEDIMENT AND EROSION CONTROL MEASURES THAT ARE DESIGNED TO CONTROL RUNOFF FROM SPECIFIC AREAS MUST BE INSTALLED PRIOR TO ANY DISTURBANCE OF THAT PART OF THE SITE.
2. THE CONTRACTOR MAY CONSIDER ALTERNATIVE SEDIMENT AND EROSION CONTROL MEASURES. SUCH MEASURES MUST BE PRESENTED IN WRITING FOR APPROVAL OF THE CONTRACT ADMINISTRATOR AND THE CONSERVATION AUTHORITY.
3. THE CONTRACTOR SHALL HAVE MATERIALS AVAILABLE ON SITE TO REPAIR SETTLEMENT AND EROSION CONTROL MEASURES IN THE EVENT OF UNFORESEEN CONDITIONS: HIGH WATER, EXTREME RAINFALL EVENTS, ETC.

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							SILTATION AND EROSION CONTROL		DESIGN: ADM	FILE: 120218	DWG:
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						CHECK: DC			SCALE: 1:500		



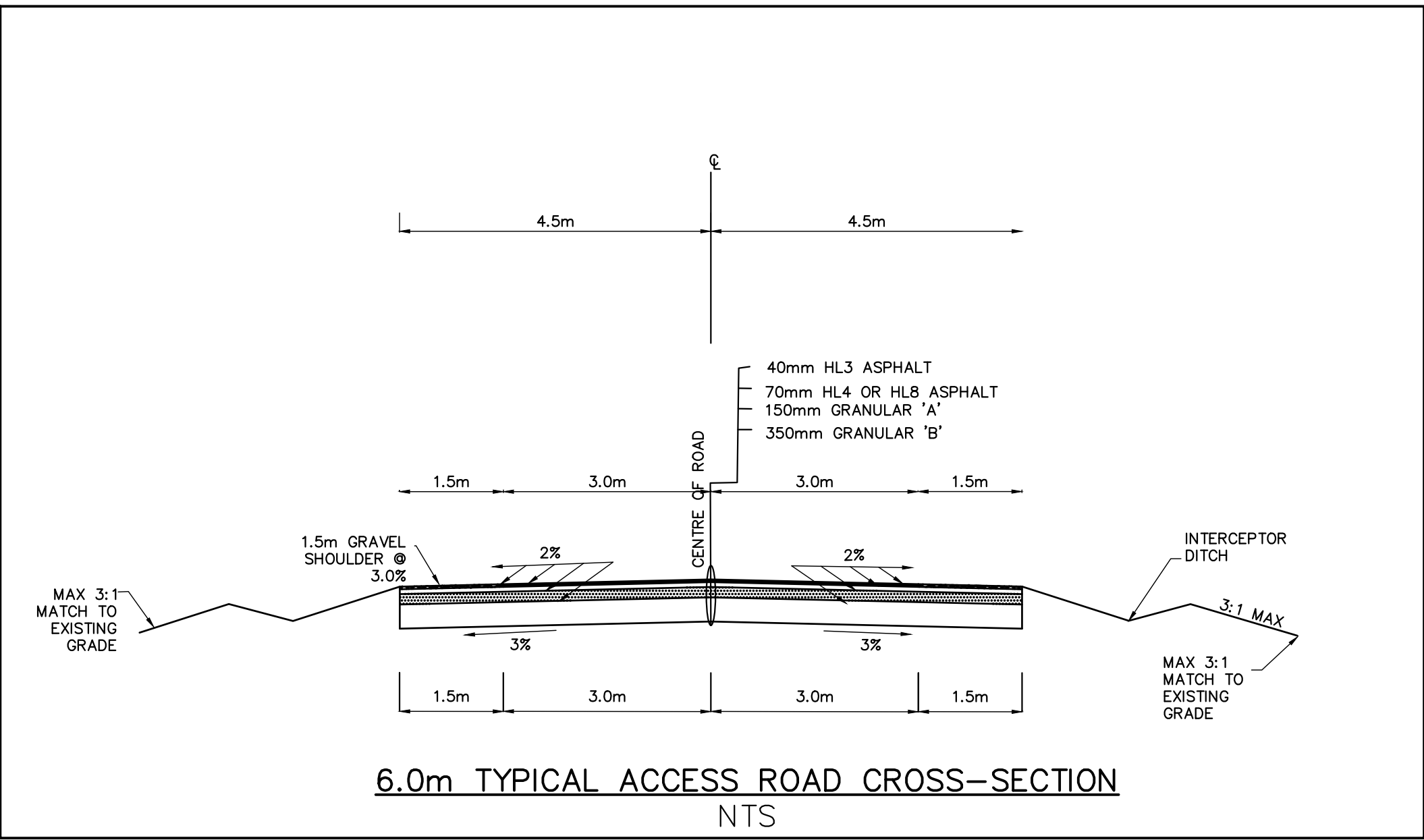
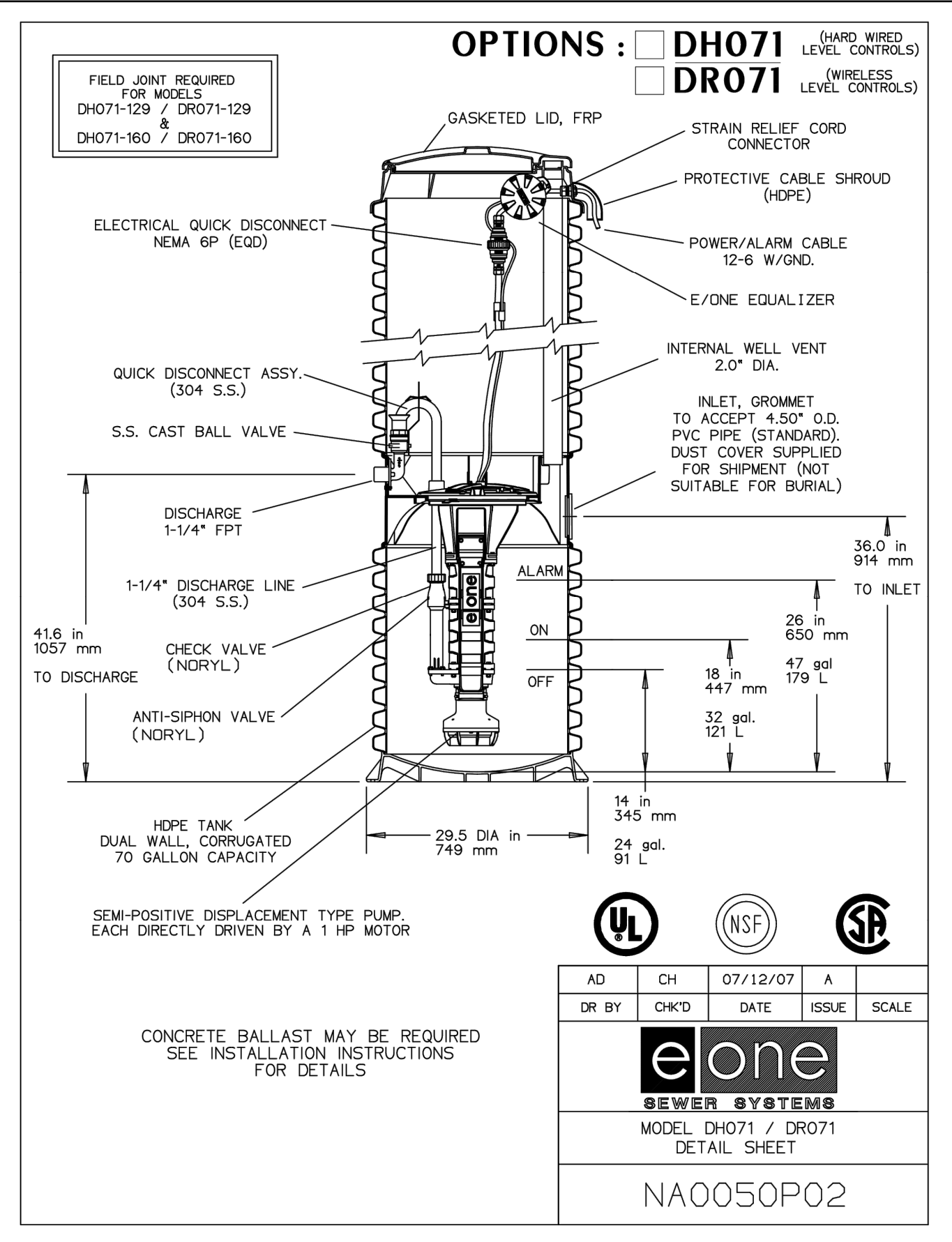
1. GENERAL NOTES
- ALL ELEVATIONS AND DIMENSIONS ARE IN METRIC UNITS UNLESS OTHERWISE NOTED AND THE MINIMUM REQUIREMENTS UNLESS OTHERWISE.
 - ALL WORK TO BE CARRIED OUT IN ACCORDANCE WITH PART 8 OF THE ONTARIO BUILDING CODE (OBC) AND THE ONTARIO ELECTRICAL SAFETY CODE.
 - ALL EQUIPMENT AND MATERIALS TO BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.
 - LOCATION AND ELEVATION OF SHALLOW BURIED TRENCH LEACHING BED TO BE CONFIRMED BY ENGINEER AND OWNER PRIOR TO CONSTRUCTION.
 - ALL EQUIPMENT AND MATERIALS TO BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.
 - ALL WASTE MATERIAL REMOVED AS PART OF CONSTRUCTION SHALL BE TRANSPORTED TO AN DISPOSED AT A FACILITY LICENSED TO ACCEPT THE WASTE IN ACCORDANCE WITH O.R.G. 347.
 - EXCAVATE WITH A TRACKED BACKHOE AND AVOID CONSTRUCTION TRAFFIC ON THE EXCAVATED SURFACE.
 - SEWERS AND FORCEMAINS TO BE BEDDED AND BACKFILLED WITH GRANULAR 'A' AND BACKFILLED WITH GRANULAR 'B' (TYPE 1). GRANULAR MATERIAL TO BE COMPACTED TO 100% OF THE MATERIALS SPMD.
 - DISTURBED AREAS TO BE REINSTATED TO PREVIOUS CONDITION OR BETTER.
 - INSTALLER IS RESPONSIBLE TO NOTIFY ALL UTILITIES AND OBTAIN LOCATES AND CO-ORDINATE CONSTRUCTION ACCORDINGLY.
 - ANY AREAS OF POSSIBLE CONFLICTS WITH EXISTING UTILITIES SHALL BE EXCAVATED BY HAND PRIOR TO COMMENCEMENT OF WORK.
 - PIPE DEFLECTIONS SHALL NOT EXCEED MANUFACTURERS SPECIFICATIONS.
 - THE INSTALLER SHALL COORDINATE ALL REQUIRED INSPECTIONS WITH THE TOWNSHIP OF MELANCTON BUILDING DEPARTMENT.
 - INSTALLER TO VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS AND NOTIFY ENGINEER OF ANY DISCREPANCIES.
 - ALL SEWERS, FORCEMAINS, HEADERS AND DISTRIBUTION PIPES SHALL BE INSTALLED WITH 3mm (1/8") GALVANIZED STEEL CABLE TAPED TO THE OVERT OF THE PIPE AT 2mm INTERVALS TO PERMIT MAGNETIC LOCATING OF THE WORKS.
2. MATERIALS
- GRAVITY SEWER - 100mm Ø SOLID WALL DR 35 PVC CONFORMING TO CAN/CSA-B182.1
 - EFFLUENT PUMP CHAMBER - 914mm X 3.6m DEEP (FLOOR TO UNDERSIDE OF LID) PRE-CAST CONCRETE MAINTENANCE HOLE C/W 600mm Ø LOCKABLE AND WATER-TIGHT ACCESS RISER BY ACTON PRECAST CONCRETE LIMITED OR APPROVED EQUAL.
 - EFFLUENT PUMP CHAMBER PIPING AND FITTINGS - 38mm Ø SCHEDULE 40 PVC CONFORMING TO CAN/CSA B137.3.
 - EFFLUENT PUMP SHUT OFF VALVE - 38mm Ø PVC TRUE UNION BALL VALVE CONFORMING TO CAN/CSA B137.3.

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No.	REVISION DESCRIPTION	DATE	ENGINEER STAMP																										
1.	FIRST SUBMISSION	APR 19/22																											
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DRAWN: ADM	DATE: DEC 2021																												
CHECK: DC	SCALE: 1:500																												



1. ALL MATERIAL SHALL BE CSA CERTIFIED.
2. BEDDING AND BACKFILL IN ACCORDANCE WITH OPSS-701.
3. WATER MAIN TO BE DUCTILE IRON WITH PRESSURE CLASS 350 OR MECHANICAL JOINTS CONFIRMING TO OPSS-701.05.03 OR PVC SDR18.
4. PVC PIPE INSTALLATION TO INCLUDE 12AWG TWH SOLID PLASTIC COVER TRACER WIRE, TWU 75 DEGREES CELSIUS 600V. TRACER WORD CONTINUITY MUST BE TESTED AND CERTIFIED.
5. CATHOTIC PROTECTION (S-12 ZINC ANODES @ 30 METER SPACING) TO BE PROVIDED IN THE ACCORDANCE WITH OPSS-702.
6. CLASS 'B' BEDDING AS PER OPSD-802.030 (RIGID PIPE) OR BEDDING AS PER OPSD-802.010 (FLEXIBLE PIPE) USING GRANULAR 'A'.
7. THRUST BLOCKING AS PER OPSD-1103.010.
8. VALVES TO BE MUELLER "55" RESILIENT SEATED, OR APPROVED EQUAL, LEFT HAND OPENING COMPLETE WITH SLIDE TYPE VALVE BOXES 125mm DIA. WITH LIDS MARKED WATER.
9. WATER SERVICES TO BE TYPE 'K' COPPER COMPLETE WITH MAIN STOP;
MAIN STOP (CANADIAN BRASS 102 COMPRESSION, MUELLER H15008 OR EQUAL),
19mmØ CURB STOP (CANADIAN BRASS 128 COMPRESSION OR EQUAL), AND
25mmØ CURB STOP (MUELLER MARK II ORISEAL), AND
(SERVICE BOXES MUELLER -726 A OR CONCORD D-1) AS PER OPSD-1104.010.
10. ALL WATERMAINS AND SERVICES SHALL BE BACKFILLED WITH APPROVED SITE MATERIAL ALL BACKFILL SHALL BE COMPACTED TO 95% MAXIMUM DRY DENSITY AS PER OPSS 514. ALL GRANULAR ROAD BASE SHALL BE COMPACTED TO 100% MAXIMUM DRY DENSITY.
11. EXISTING SERVICE LOCATIONS TO BE VERIFIED IN THE FIELD.

1. ALL MATERIALS SHALL BE CSA CERTIFIED.
2. SANITARY SEWER TO BE SDR 35 PVC PIPE.
3. BEDDING AS PER OPSD-802.010 USING GRANULAR 'A'. USE SELECTED SITE MATERIAL FOR BACKFILL.
4. 125mm Ø AND 150mm Ø SANITARY SERVICE LATERALS TO BE SDR 28 PVC PIPE. CLEAN OUT TO BE INSTALLED AT ALL 150mm DIAMETER SERVICE CONNECTIONS.



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								DRAWN: ADM	DATE: NOV 2021	
								CHECK: DC	SCALE: 1:500	

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