Project No. 222617.00

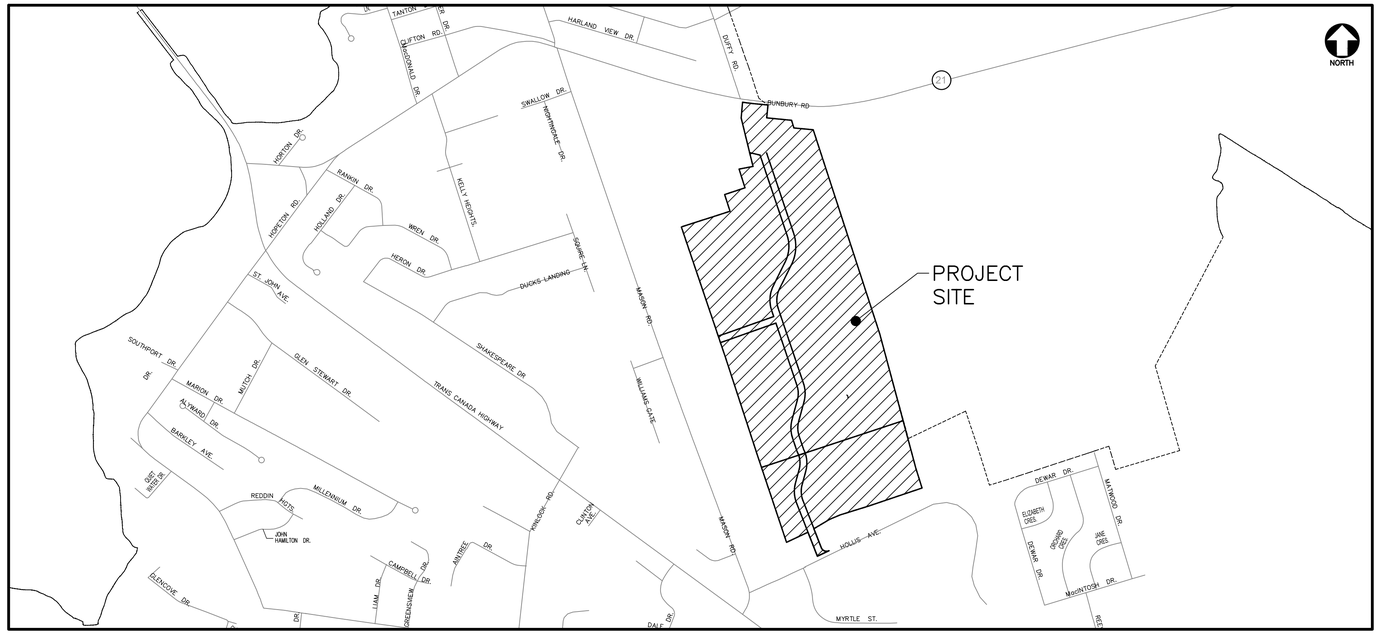
TOWN OF STRATFORD

Sheet List Table

Sheet Number	Sheet Title	Sheet Description
COVER SHEET		
0	COVER	
CIVIL		
C01	OVERALL SITE PLAN	
C02	OVERALL EROSION & SEDIMENT CONTROL PLAN 1	
C03	OVERALL EROSION & SEDIMENT CONTROL PLAN 2	
C04	OVERALL EROSION & SEDIMENT CONTROL PLAN 3	
C05	PLAN & PROFILE SEDIMENT POND 1	
C06	PLAN & PROFILE SEDIMENT POND 2	
C07	PLAN, PROFILE & SECTION SEDIMENT POND 3	
C08	PLAN, PROFILE & SECTIONS SEDIMENT CONTAINMENT SWALE	
C09	PLAN & SECTIONS SEDIMENT POND 1 & 2	
C10	PlAN & PROFILE SOUTH OUTLET	
C11	PLAN & PROFILE STREET A	STA 0+220 TO 0+300
C12	PLAN & PROFILE STREET A	STA 0+300 TO 0+620
C13	PLAN & PROFILE STREET A	STA 0+620 TO 0+940
C14	PLAN & PROFILE STREET A	STA 0+960 TO 1+280
C15	PLAN & PROFILE STREET A	STA 1+260 TO 1+580
C16	PLAN & PROFILE STREET A	STA 1+580 TO 1+730
C17	PLAN & PROFILE STREET B	STA 1+190 TO 2+240
C18	PLAN & PROFILE LIFT STATION SEWER	STA 3+000 TO 3+240
C19	PLAN & PROFILE HOLLIS AVE	STA 4+800 TO 4+996
C20	SECTIONS	STA 0+020 TO 0+560
C21	SECTIONS	STA 0+580 TO 1+120
C22	SECTIONS	STA 1+140 TO 1+680
C23	SECTIONS	STA 1+700 TO 1+720 & 2+020 TO 2+240
C24	PAVEMENT MARKING & SIGNAGE PLAN	
C25	LIFT STATION	PLAN & SECTIONS
C26	DETAILS No. 1	
C27	DETAILS No. 2	
C28	DETAILS No. 3	
C29	DETAILS No. 4	
ELECTRICAL		
E01	DISTRIBUTION & LIGHTING SYSTEM LAYOUT	
E02	DISTRIBUTION & LIGHTING SCHEMATIC	
E03	DISTRIBUTION DETAILS	
E04	LIGHTING DETAILS	
E05	LIFT STATION PLAN & SECTIONS	
E06	LIFT STATION SINGLE LINE DIAGRAM & DETAILS	

COMMUNITY CAMPUS

SITE SERVICING



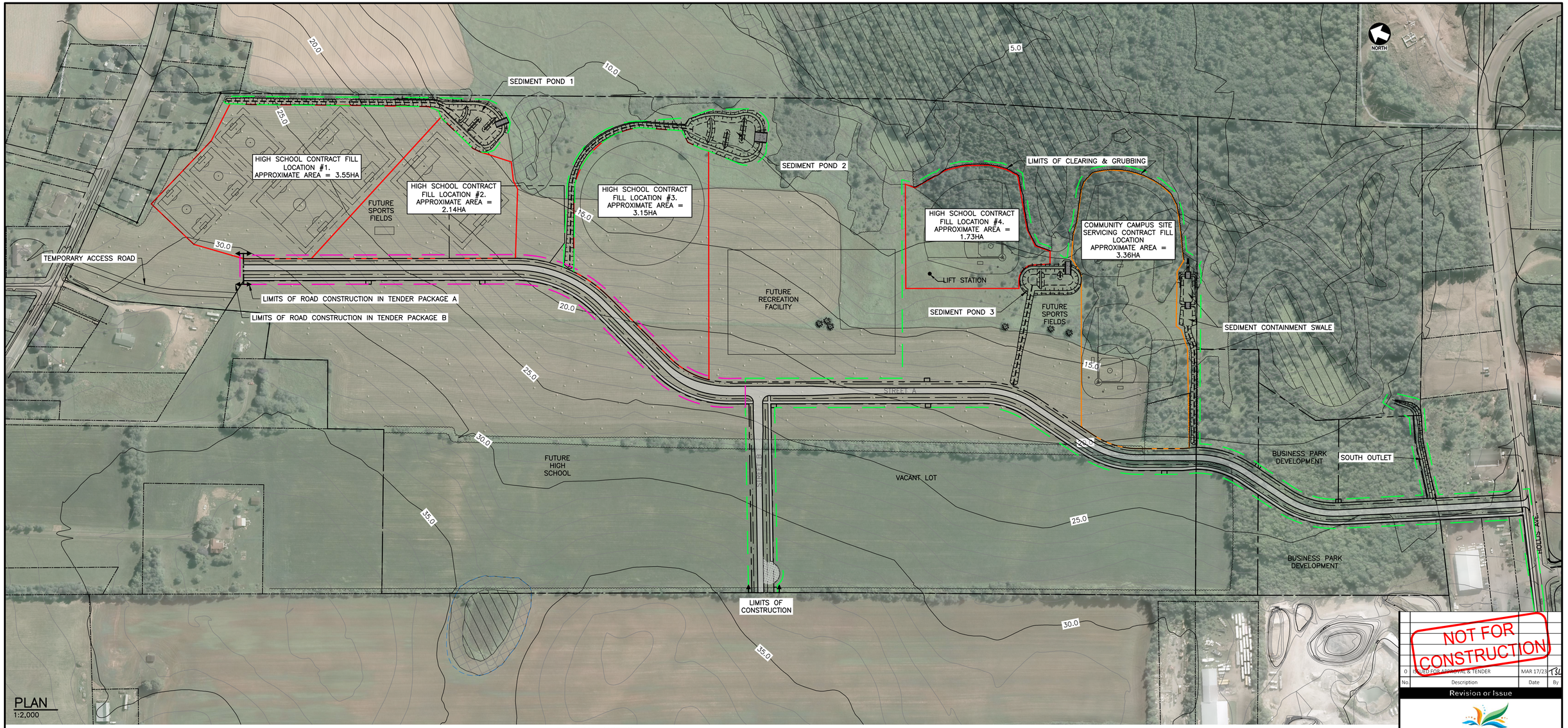
CBCL

NOT FOR CONSTRUCTION

ISSUED FOR APPROVAL & TENDER

MARCH 17 2023

DRAWING NAME: \\CBCL.LAN\CBCL\CHARLOTTETOWN\DATA\CBCL JOB FOLDERS\2022\222617.00 STRATFORD - COMMUNITY CAMPUS SITE SERVICING\44 CAD\01 CIVIL\03 DRAWING SHEETS\222617_COVER & DETAILS.DWG LAYOUT NAME: 0 COVER PLOT DATE: March 17, 2023 6:25:14 PM CAD OPERATOR: TLELACHEUR



PLAN
1:2,000

LEGEND

- PROPERTY LINE (EX.)
- PROPERTY LINE (PR.)
- SURVEY MARKER (EX.)
- WETLAND (EX.)
- BUFFER ZONE (EX.)
- TEST PIT
- SILT FENCE (PR.)
- SEDIMENT CONTROL SOCK (PR.)
- STRAW BALE CHECK DAM (PR.)
- RIP RAP CHECK DAM (PR.)
- WATERMAIN (EX.)
- WATERMAIN (PR.)
- GATE VALVE (EX.)
- GATE VALVE (PR.)
- AIR RELEASE VALVE (PR.)
- WATERMAIN FITTINGS (EX.)
- WATERMAIN FITTINGS (PR.)
- WATERMAIN BENDS (EX.)
- WATERMAIN BENDS (PR.)
- FIRE HYDRANT (EX.)
- FIRE HYDRANT (PR.)
- SANITARY SEWER (EX.)
- SANITARY SEWER (PR.)
- SANITARY MH (EX.)
- SANITARY MH (PR.)
- SANITARY FORCEMAIN (EX.)
- SANITARY FORCEMAIN (PR.)
- STORM SEWER (EX.)
- STORM SEWER (PR.)
- STORM CATCHBASIN (RND.) (EX.)
- STORM CATCHBASIN (RND.) (PR.)
- DITCH (EX.)
- DITCH (PR.)
- SWALE (PR.)
- FENCE (EX.)
- TOP OF SLOPE (EX.)
- TOP OF SLOPE (PR.)
- BOTTOM OF SLOPE (EX.)
- BOTTOM OF SLOPE (PR.)
- LIMITS OF ROADWAY DISTURBANCE (PR.)
- PHASE 1 LIMITS
- PHASE 2 LIMITS
- FILL AREA FOR HIGH SCHOOL CONTRACT
- FILL AREA FOR COMMUNITY CAMPUS SERVICING CONTRACT
- UTILITY POLE (EX.)
- UTILITY POLE (PR.)
- LIGHT STANDARD (EX.)
- LIGHT STANDARD (PR.)
- U/G POWER (EX.)
- U/G POWER (PR.)
- O/H POWER (EX.)
- O/H POWER (PR.)
- TRAFFIC SIGNAL (PR.)
- TRAFFIC CONDUIT (PR.)
- MAJOR CONTOUR (EX.)
- MAJOR CONTOUR (PR.)
- MINOR CONTOUR (EX.)
- MINOR CONTOUR (PR.)
- SPOT ELEVATION (EX.)
- SPOT ELEVATION (PR.)
- ROAD SIGN (SM.) (EX.)
- ROAD SIGN (SM.) (PR.)
- TREELINE (EX.)
- TREELINE (PR.)

GENERAL NOTES

1. SEE ALL DRAWINGS FOR ADDITIONAL NOTES & DETAILS.
2. TOPOGRAPHIC SURVEY COMPLETED BY ISE LTD. DURING THE PERIOD OF JANUARY 2021, PROJECT No. 20452.
3. ADDITIONAL SURVEY WAS EXECUTED BY CBCL ON MAY 26, 2022.
4. ELEVATIONS ARE REFERENCED TO CANADIAN GEODETIC VERTICAL DATUM OF 1928 (CGVD28). ELEVATIONS ARE BASED ON PEICM #6022 WITH A PUBLISHED ELEVATION OF 21.36m.
5. AZIMUTHS AND COORDINATES SHOWN ON THIS PLAN ARE REFERENCED TO PEICM #6022 WITH PUBLISHED COORDINATES N=687268.812 E=393341.348, BASED ON P.E.I. DOUBLE STEREOGRAPHIC PROJECTION WITH NAD83 (CSRS) REFERENCE SYSTEM, EPOCH 1997.
6. SURVEY IS SUPPLEMENTED BY 50cm LIDAR CONTOURS.
7. ALL EXISTING INFRASTRUCTURE IN PLAN AND PROFILE IS APPROXIMATE. EXACT LOCATION AND DEPTHS SHALL BE DETERMINED BY THE CONTRACTOR. REPAIR ANY DAMAGE TO EXISTING INFRASTRUCTURE AT NO ADDITIONAL COST TO THE CONTRACT.
8. LOCATE ALL EXISTING INFRASTRUCTURE IN PLAN AND PROFILE AND PROVIDE INFORMATION TO THE ENGINEER. ALLOW 5 DAYS MIN. FOR DESIGN REVISIONS PRIOR TO SUBMISSION OF SHOP DRAWINGS.
9. WHERE PROPOSED INFRASTRUCTURE REQUIRES CROSSING EXISTING CABLES, HIRE THE CORRESPONDING UTILITY TECHNICIAN TO BE ON SITE AT THE TIME OF EXCAVATION & BACKFILLING.
10. CONTRACTOR IS RESPONSIBLE FOR SETTING GRADES AND LAYOUT CONTROL. SEE DRAWING C16 FOR STREET LAYOUT INFORMATION.
11. CONSTRUCTION ON THE FUTURE HIGH SCHOOL IS PROPOSED TO START IN THE SPRING OF 2023. COORDINATE WORKS WITH SCHOOL GENERAL & CIVIL CONTRACTOR TO AVOID ACCESS CONFLICTS.
12. TEMPORARY ACCESS ROAD SHALL BE COMPLETED PRIOR TO JUNE 1ST, 2023.
13. WORK WITHIN THE LIMITS OF PHASE 2 SHALL NOT BEGIN PRIOR TO SEPTEMBER 15TH, 2023 UNLESS DIRECTED BY THE OWNER'S REPRESENTATIVE.
14. PHASE 1 OF SITE SERVICING CONSTRUCTION; BURIED INFRASTRUCTURE & ROAD CONSTRUCTION INCLUDING ASPHALT BASE SHALL BE SUBSTANTIALLY PERFORMED PRIOR TO DECEMBER 1ST, 2023. LIFT STATION MAY BE COMMISSIONED DURING PHASE 2.
15. ASPHALT SEAL SHALL BE PLACED IN 2024. SET INFRASTRUCTURE (MH'S, CB'S, VALVE BOXES, ETC.) WITHIN PAVED AREAS & SHOULDERS 50mm LOW AND COMPLETE FINAL ADJUSTMENT PRIOR TO PLACING ASPHALT SEAL.
16. REINSTATE HIGH SCHOOL CONTRACT FILL AREAS WITH 150mm TOPSOIL (FROM ONSITE STOCKPILE) AND HYDROSEED IMMEDIATELY FOLLOWING THE COMPLETION OF EARTHWORKS BY THE HIGH SCHOOL CONTRACTOR.

TENTATIVE CONSTRUCTION SEQUENCING:

1. CONSTRUCT SEDIMENT POND 1, INLET DRAINAGE SWALE, INSTALL ENVIRONMENTAL CONTROLS AND COMPLETE REINSTATEMENT AND SOIL STABILIZATION FOR SEDIMENT POND 1.
2. CONSTRUCT SEDIMENT POND 2, INLET DRAINAGE SWALE, INSTALL ENVIRONMENTAL CONTROLS AND COMPLETE REINSTATEMENT AND SOIL STABILIZATION FOR SEDIMENT POND 2.
3. CLEAR AND GRUB PHASE 1 R.O.W, SOUTH OUTLET, SEDIMENT POND 3, SEDIMENT CONTAINMENT SWALE AND AREAS DESIGNATED FOR FILL PLACEMENT.
4. INSTALL SILT SOCK ALONG PERIMETER OF PROJECT SITE.
5. CONSTRUCT SEDIMENT POND 3, INLET DRAINAGE SWALE, INSTALL ENVIRONMENTAL CONTROLS AND COMPLETE REINSTATEMENT AND SOIL STABILIZATION FOR SEDIMENT POND 3.
6. CONSTRUCT THE SEDIMENT CONTAINMENT SWALE, INLET DRAINAGE SWALE, INSTALL ENVIRONMENTAL CONTROLS AND COMPLETE REINSTATEMENT AND SOIL STABILIZATION FOR THE SEDIMENT CONTAINMENT SWALE.
7. CONSTRUCT THE SOUTH OUTLET AND INSTALL ENVIRONMENTAL CONTROLS FOR THE SOUTH OUTLET.
8. INSTALL SILT FENCE ALONG PHASE 1 R.O.W LIMITS.
9. STRIP TOPSOIL WITHIN THE R.O.W. LIMITS OF PHASE 1.
10. COMPLETE WATER AND SANITARY INFRASTRUCTURE INSTALLATION WITHIN THE LIMITS OF PHASE 1.
11. COMPLETE THE ROAD CONSTRUCTION TO SUBGRADE WITHIN THE LIMITS OF PHASE 1.
12. COMPLETE THE STORM SYSTEM INSTALLATION WITHIN THE LIMITS OF PHASE 1.
13. COMPLETE THE ELECTRICAL INFRASTRUCTURE INSTALLATION WITHIN THE LIMITS OF PHASE 1.
14. COMPLETE THE ROAD CONSTRUCTION WITHIN THE LIMITS OF PHASE 1.
15. COMPLETE THE REINSTATEMENT & SITE STABILIZATION OF ALL DISTURBED AREAS WITHIN THE LIMITS OF PHASE 1.
16. INSTALL SILT FENCE ALONG PHASE 2 R.O.W. LIMITS.
17. STRIP TOPSOIL WITHIN THE R.O.W. LIMITS OF PHASE 2.
18. COMPLETE WATER AND SANITARY INFRASTRUCTURE INSTALLATION WITHIN THE LIMITS OF PHASE 2.
19. COMPLETE THE ROAD CONSTRUCTION TO SUBGRADE WITHIN THE LIMITS OF PHASE 2.
20. COMPLETE THE STORM SYSTEM INSTALLATION WITHIN THE LIMITS OF PHASE 2.
21. COMPLETE THE ELECTRICAL INFRASTRUCTURE INSTALLATION WITHIN THE LIMITS OF PHASE 2.
22. COMPLETE THE ROAD CONSTRUCTION WITHIN THE LIMITS OF PHASE 2.
23. COMPLETE THE REINSTATEMENT & SITE STABILIZATION OF ALL DISTURBED AREAS WITHIN THE LIMITS OF PHASE 2.

NOT FOR CONSTRUCTION

No.	Description	Date	By
0	ISSUED FOR APPROVAL & TENDER	MAR 17/23	TSL

Revision or Issue

Town of Stratford
Canada's Fun Place

TOWN OF STRATFORD

COMMUNITY CAMPUS

SITE SERVICING

CIVIL

OVERALL SITE PLAN

CBCL

CBCL No	Contract No	Date	Scale
222617.00	222617.00	MAR. 2023	AS NOTED
		Designed TSL	Drawn TSL
		Checked PSH	Aproved TSL

PROFESSIONAL ENGINEER
The Association of Professional Engineers of The Province of Prince Edward Island
Tim LeLacheur
1453
Mar 17 2023
Date
PROVINCE OF PRINCE EDWARD ISLAND

Sheet No 1 of 29

Drawing No **C01**

NORTH

ENVIRONMENTAL PROTECTION NOTES:

1. DO NOT REMOVE OR DISTURB VEGETATION OUTSIDE THE DEVELOPMENT PERMIT APPROVED AREA OF CONSTRUCTION.
2. STABILIZE ACCESS ROADS AS SOON AS POSSIBLE.
3. ANY MUD OR DEBRIS THAT IS TRACKED ONTO THE PUBLIC ROADWAY MUST BE CLEANED OFF BY THE END OF EACH WORK DAY.
4. INSTALLATION OF ENVIRONMENTAL CONTROLS SHALL BE A FIRST STEP IN THE CONSTRUCTION SEQUENCE, AND THEIR DESIGN, INSTALLATION AND MAINTENANCE SHALL BE AS PER PEI DTI'S ENVIRONMENTAL PROTECTION PLAN (EPP) AND THE DETAILS PROVIDED ON THESE DRAWING.
5. ALL NECESSARY ENVIRONMENTAL CONTROLS SHALL BE IN PLACE PRIOR TO, DURING AND AFTER PROJECT ACTIVITIES UNTIL VEGETATION HAS BEEN ESTABLISHED TO AVOID OFFSITE SILTATION.
6. WORK SHOULD BE SCHEDULED TO AVOID PERIODS OF HEAVY PRECIPITATION. SHORT-TERM EROSION AND SEDIMENT CONTROL MEASURES (I.E. SILT FENCE, STRAW BALES, TEMPORARY MATTING, GEOTEXTILE FILTER FABRIC) MUST BE INSTALLED TO PREVENT SEDIMENT FROM ENTERING ANY ADJACENT WATERWAY. THESE STRUCTURES WILL REMAIN IN PLACE UNTIL VEGETATION HAS ESTABLISHED.
7. FILL MATERIAL USED IN CONSTRUCTION MUST BE COMMON OR SELECT BORROW IN ACCORDANCE WITH PEI DTI STANDARD SPECIFICATIONS.
8. ANY EXPOSED SOIL AREA MUST BE MINIMIZED BY LIMITING THE AREA THAT IS EXPOSED AT ONE TIME AND BY LIMITING THE TIME THAT ANY ONE AREA IS EXPOSED.
9. ALL STOCKPILED/EXCAVATED MATERIAL MUST BE CONTAINED AND/OR DYKED TO PREVENT EROSION OR RUNOFF CONTAINING SEDIMENT FROM LEAVING THE SITE.
10. AVOID DISTURBANCE OF VEGETATION AND NATURAL FEATURES WHERE POSSIBLE. ALL WORK IS TO BE CONFINED TO THE SITE LIMITS DELINEATED AND/OR AS DIRECTED BY THE OWNER'S REPRESENTATIVE.
11. NO STAGING OF MATERIALS/EQUIPMENT WILL TAKE PLACE ON ANY ENVIRONMENTALLY SENSITIVE AREA. ALL STAGING AREA SITES, IF REQUIRED, WILL BE DETERMINED BY THE OWNER'S REPRESENTATIVE.
12. AN APPROPRIATELY SIZED EMERGENCY SPILL RESPONSE KIT SHALL BE AVAILABLE ON THE JOB SITE AT ALL TIMES.
13. EROSION CONTROL MEASURES MUST BE CHECKED ON A REGULAR BASIS. A MINIMUM OF EVERY 7 DAYS OR IMMEDIATELY FOLLOWING A HEAVY RAINFALL EVENT.
14. UPON PROJECT COMPLETION, ALL BARREN SOIL SHALL BE STABILIZED BY SEPTEMBER 30. OTHERWISE A HEAVY LAYER OF MULCH MUST BE APPLIED FOR OVER WINTERING THAT WILL BE REMOVED IN THE FOLLOWING SPRING FOR SURFACE PREPARATION AND SEEDING.
15. ALL RIP RAP CHECK DAMS ARE PERMANENT AND WILL REMAIN POST CONSTRUCTION. STRAW BALE CHECK DAMS SHALL BE REMOVED WHEN VEGETATION HAS ESTABLISHED.
16. FAILURE TO COMPLY WITH THE EROSION AND SEDIMENT CONTROL GUIDELINES OR REQUIREMENTS MAY RESULT IN A STOP WORK ORDER UNTIL CORRECTIVE ACTIONS HAVE BEEN IMPLEMENTED TO THE SATISFACTION OF THE APPROVING AUTHORITY.

NOTES
1. SEE ALL DRAWINGS FOR ADDITIONAL NOTES AND DETAILS.

STRAW BALE CHECK DAM (5/C26)
SEDIMENT CONTROL SOCK (TYP.) ADJUST LOCATION BASED ON SWALE (6/C26)
RIP RAP CHECK DAM (TYP.) (7/C26)
SEDIMENT POND 1 SEE DRAWING C05
STRAW BALE OUTLET CHECK DAM
WETLAND BUFFER ZONE
FUTURE SPORTS FIELDS
RIP RAP CHECK DAM (TYP.) SEE DETAIL (7/C26)
SILT FENCE (TYP.) SEE DETAIL (4/C26)
TEMPORARY ACCESS ROAD
STREET A
FUTURE SPORTS FIELDS
EX. CSP MAY BE BURIED HERE
CIVIC # 105
250mmø WATERMAIN CAP
250mmø GATE VALVE
EX.CB(600CSP) TOP=±30.82m INV=(BURIED)
200mmø WATERMAIN
TOWER SIGN
EX.CB(600CSP) TOP=31.04m INV(N)=29.55 INV(S)=(BURIED)
EX.CB(600CSP) TOP=±31.19m INV(O)=±29.35 INV(E)=±29.44
250mmø WATERMAIN
19mmø WATER SERVICE
50mmø FORCEMAIN
CIVIC # 180
MAILBOX
CIVIC # 184
ASPHALT DRIVEWAY
SEPTIC TANK C/W PUMP
UFFY ROAD
UNBURY ROAD

LEGEND
- SILT FENCE (PR.)
- SEDIMENT CONTROL SOCK (PR.)
- STRAW BALE CHECK DAM (PR.)
- RIP RAP CHECK DAM (PR.)
- TOP OF SLOPE (PR.)
- BOTTOM OF SLOPE (PR.)
- DITCH (PR.)
- LIMITS OF ROADWAY DISTURBANCE (PR.)

NOT FOR CONSTRUCTION

No.	Description	Date	By
0	ISSUED FOR APPROVAL & TENDER	MAR 17/23	TSL

Revision or Issue

TOWN OF STRATFORD

COMMUNITY CAMPUS

SITE SERVICING

CIVIL

OVERALL EROSION & SEDIMENT CONTROL PLAN 1

CBCL

CBCL No	Contract No	Date	Scale
222617.00	222617.00	MAR. 2023	AS NOTED

Designed	Drawn
AHG	DRC
Checked	Approved
PSH	TSL

Sheet No 2 of 29

Drawing No **C02**

PROFESSIONAL ENGINEER — The Association Of Professional Engineers Of Prince Edward Island — Avery H Gilks 2494 — Date MARCH 17, 2023 — PROVINCE OF PRINCE EDWARD ISLAND

PLAN
1:750

DRAINAGE SWALE TO SEDIMENT POND 2
SEE DRAWING C06

RIP RAP
CHECK DAM (TYP.)

FUTURE
SPORTS
FIELDS

WETLAND BUFFER ZONE

SEDIMENT CONTROL SOCK
SEE DETAIL 6 C26

SEDIMENT POND 3
SEE DRAWING C07

FUTURE
RECREATION
FACILITY

APPROXIMATE LIMITS OF
FARMED FIELD

DECOMMISSION EXISTING
WELL TO PROVINCIAL
STANDARDS

RIP RAP
CHECK DAM (TYP.)
SEE DETAIL 7 C26

SILT FENCE (TYP.)
SEE DETAIL 4 C26

STRAW BALE
CHECK DAM

STRAW BALE CHECK DAM

RIP RAP
CHECK DAM (TYP.)

STREET A

STREET B

FUTURE
HIGH
SCHOOL

VACANT LOT

RIP RAP
CHECK DAM (TYP.)

STRAW BALE CHECK DAM

RIP RAP
CHECK DAM (TYP.)

PLAN
1:750

NOTES
1. SEE ALL DRAWINGS FOR ADDITIONAL NOTES AND DETAILS.

LEGEND
- SILT FENCE (PR.)
- SEDIMENT CONTROL SOCK (PR.)
- STRAW BALE CHECK DAM (PR.)
- RIP RAP CHECK DAM (PR.)
- TOP OF SLOPE (PR.)
- BOTTOM OF SLOPE (PR.)
- DITCH (PR.)
- LIMITS OF ROADWAY DISTURBANCE (PR.)

NOT FOR CONSTRUCTION

No.	Description	Date	By
0	ISSUED FOR APPROVAL & TENDER	MAR 17/23	TSL

Revision or Issue

TOWN OF STRATFORD

COMMUNITY CAMPUS

SITE SERVICING

CIVIL

OVERALL EROSION &
SEDIMENT CONTROL PLAN 2

CBCL

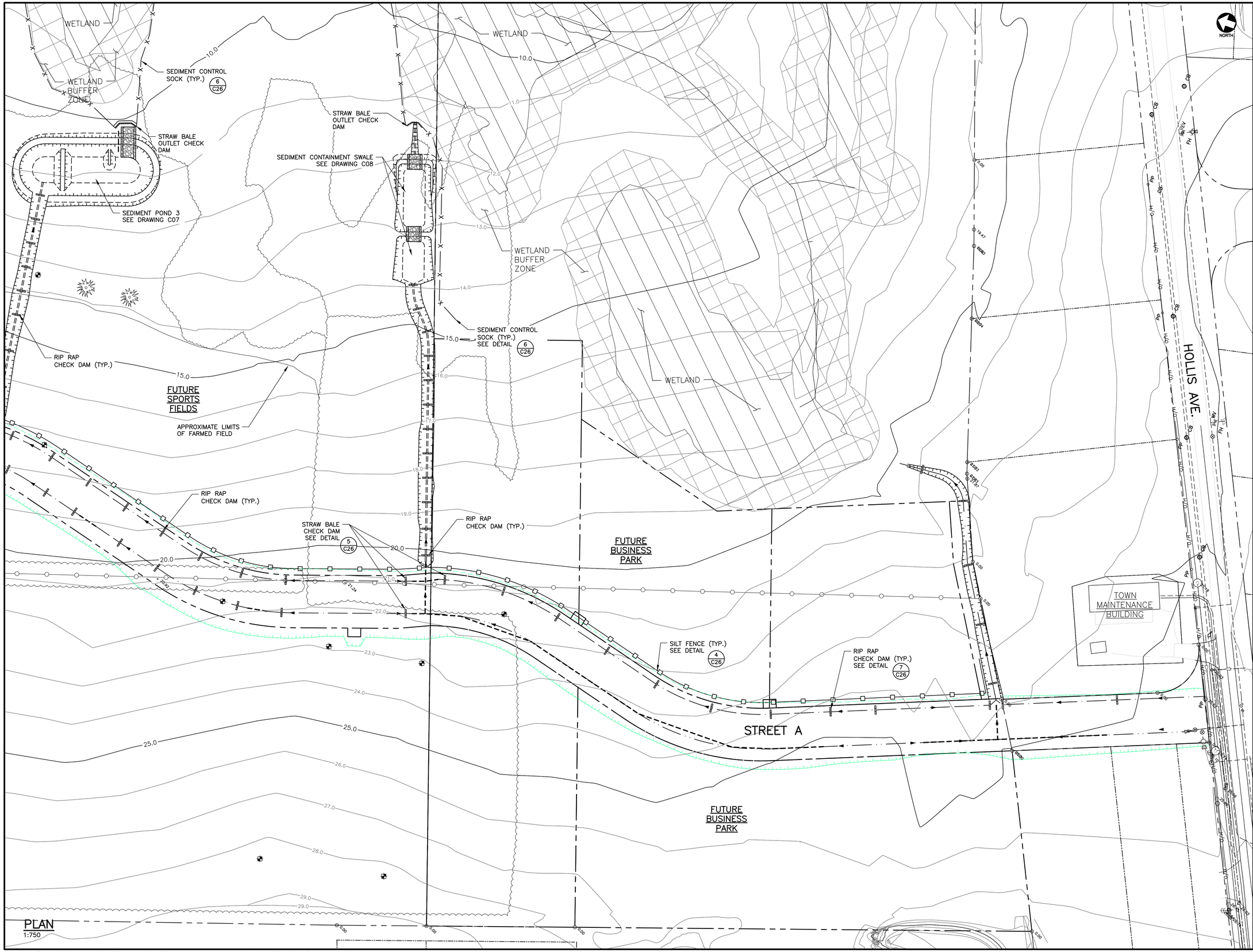
CBCL No	Contract No	Date	Scale
222617.00	222617.00	MAR. 2023	AS NOTED

Designed	Drawn
AHG	DRC
Checked	Approved
PSH	TSL

Sheet No 3 of 29

Drawing No C03

PROFESSIONAL ENGINEER
THE ASSOCIATION OF PROFESSIONAL ENGINEERS OF PRINCE EDWARD ISLAND
Avery H Gilks
2494
MARCH 17, 2023
DATE
PROVINCE OF PRINCE EDWARD ISLAND



PLAN
1:750

NOTES
1. SEE ALL DRAWINGS FOR ADDITIONAL NOTES AND DETAILS.

LEGEND
- SILT FENCE (PR.)
- SEDIMENT CONTROL SOCK (PR.)
- STRAW BALE CHECK DAM (PR.)
- RIP RAP CHECK DAM (PR.)
- TOP OF SLOPE (PR.)
- BOTTOM OF SLOPE (PR.)
- DITCH (PR.)
- LIMITS OF ROADWAY DISTURBANCE (PR.)

NOT FOR CONSTRUCTION

No.	Description	Date	By
0	ISSUED FOR APPROVAL & TENDER	MAR 17/23	TSL

Revision or Issue

TOWN OF STRATFORD

COMMUNITY CAMPUS

SITE SERVICING
CIVIL

OVERALL EROSION & SEDIMENT CONTROL PLAN 3

CBCL

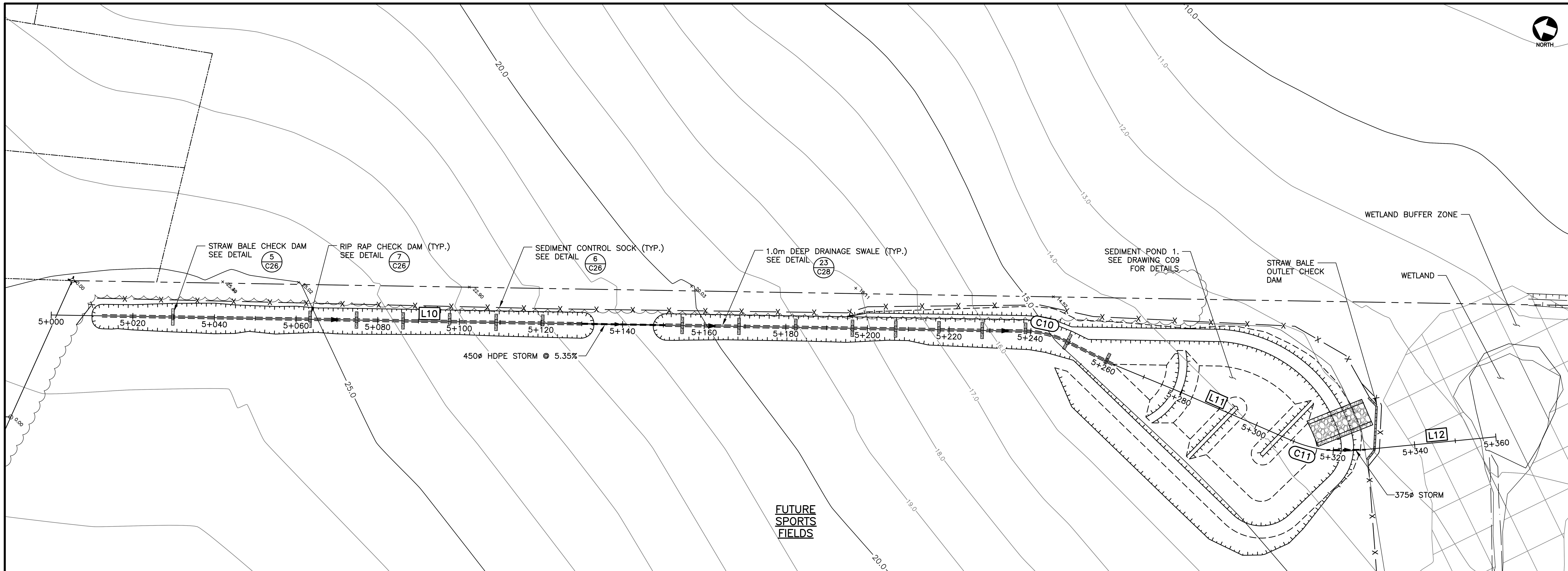
CBCL No	Contract No	Date	Scale
222617.00	222617.00	MAR. 2023	AS NOTED

Designed	Drawn
AHG	DRC
Checked	Approved
PSH	TSL

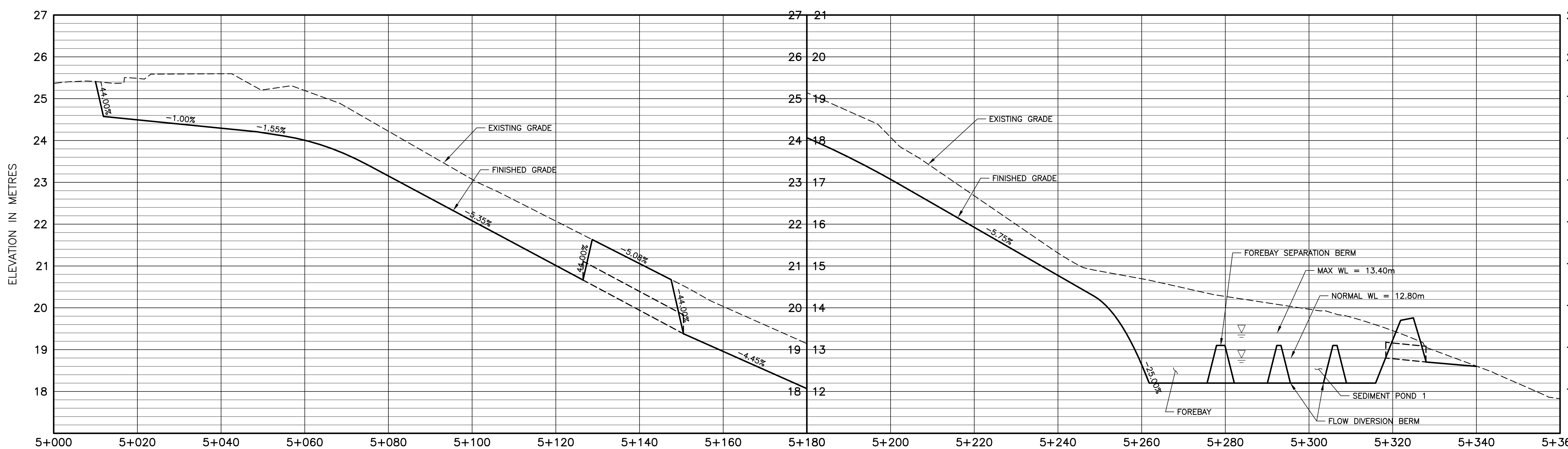
Sheet No 4 of 29

Drawing No **C04**

PROFESSIONAL ENGINEER — The Association Of Professional Engineers Of The Province Of Prince Edward Island — Avery H Gilks 2494 — MARCH 17, 2023 Date — PROVINCE OF PRINCE EDWARD ISLAND



PLAN– SEDIMENT POND 1
1:500



Station	EXIST. GRADE	FINISHED GRADE
5+000	25.37	
5+020	25.49	24.494
5+040	25.60	24.294
5+060	25.19	24.007
5+080	24.22	23.152
5+100	23.07	22.082
5+120	22.07	21.012
5+140	21.06	21.058
5+160	20.03	18.957
5+180	19.14	18.067
5+200	18.08	17.072
5+220	16.68	15.924
5+240	15.31	14.774
5+260	14.69	12.643
5+280	14.27	
5+300	13.97	
5+320	13.45	
5+340	12.61	
5+360	11.83	

STORM SEWER (PROP.): 20.66 – 19.38; 24.00m–450ø HDPE STM @ 5.35%
12.80 – 12.70; 9.57m–375ø HDPE STM @ 1.00%

PROFILE– SEDIMENT POND 1
1:500 [H] 1:50 [V]

DRAWING NAME: \\CBCL.LAN\CBCL\CHARLOTTETOWN\DATA\CBCL JOB FOLDERS\2022\222617.00 STRATFORD - COMMUNITY CAMPUS SITE SERVICING\44 CAD\01 CIVIL\03 DRAWING SHEETS\222617_PLAN-PROFILE.DWG LAYOUT NAME: C05 PLAN & PROFILE SEDIMENT POND 1 PLOT DATE: March 17, 2023 5:57:55 PM CAD OPERATOR: TLELACHEUR

NOTES
1. SEE ALL DRAWINGS FOR ADDITIONAL NOTES AND DETAILS.

LEGEND
- SILT FENCE (PR.)
- SEDIMENT CONTROL SOCK (PR.)
- STRAW BALE CHECK DAM (PR.)
- RIP RAP CHECK DAM (PR.)
- TOP OF SLOPE (PR.)
- BOTTOM OF SLOPE (PR.)
- DITCH (PR.)
- LIMITS OF ROADWAY DISTURBANCE (PR.)

NOT FOR CONSTRUCTION

No.	Description	Date	By
0	ISSUED FOR APPROVAL & TENDER	MAR 17/23	TSL

Revision or Issue

Town of Stratford, Prince Edward Island

TOWN OF STRATFORD

COMMUNITY CAMPUS

SITE SERVICING
CIVIL

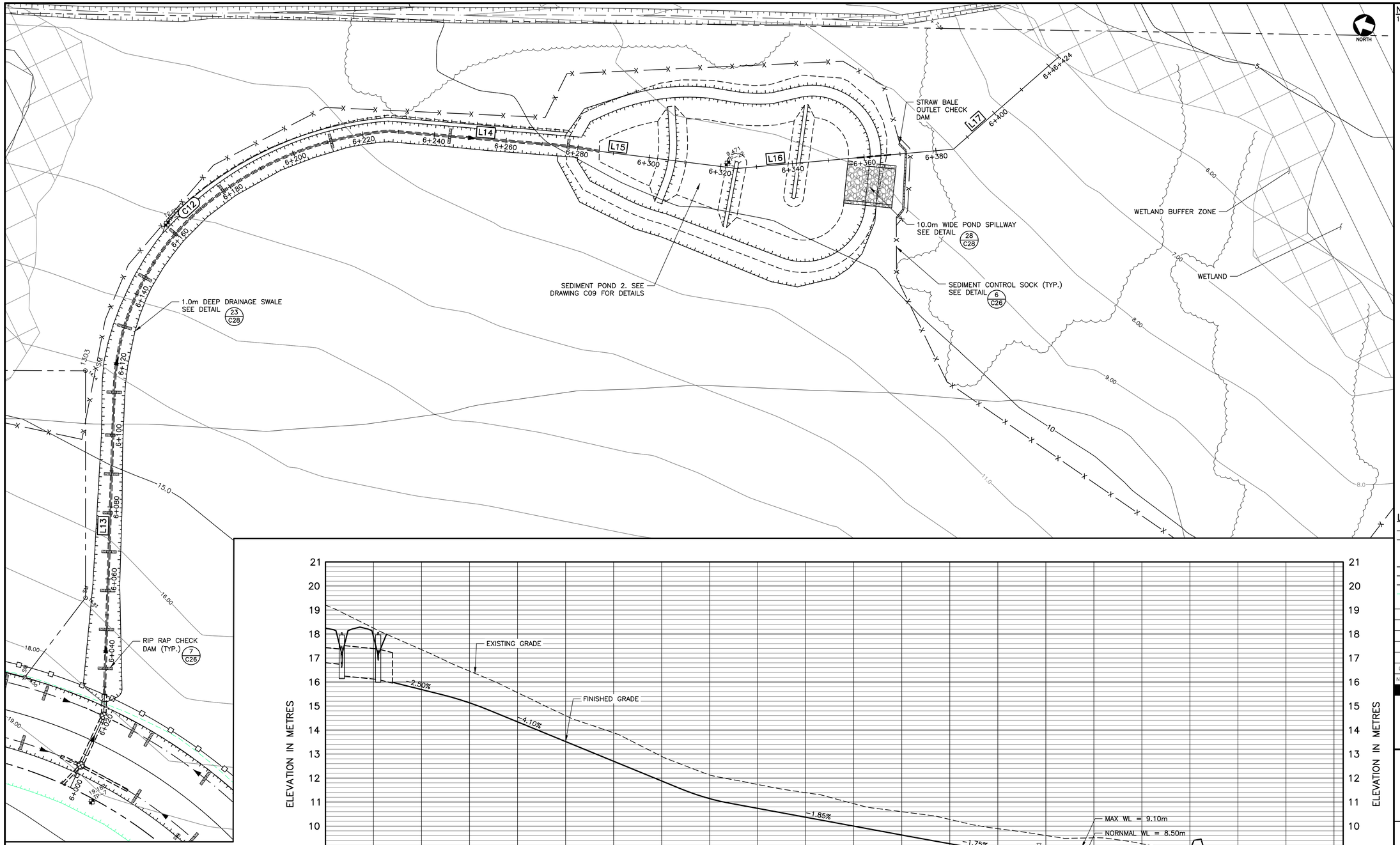
PLAN & PROFILE SEDIMENT POND 1

CBCL

CBCL No	Contract No	Date	Scale
222617.00	222617.00	MAR. 2023	AS NOTED

Designed: AHG | Drawn: AHG
Checked: PSH | Approved: TSL
Sheet No: 5 of 29
Drawing No: C05

PROFESSIONAL ENGINEER — The Association of Professional Engineers of the Province of Prince Edward Island — Avery H Gilks 2494 — March 17, 2023 Date — PROVINCE OF PRINCE EDWARD ISLAND



PLAN – SEDIMENT POND 2
1:500

PROFILE – SEDIMENT POND 2
1:750 [H] 1:75 [V]

NOTES
1. SEE ALL DRAWINGS FOR ADDITIONAL NOTES AND DETAILS.

LEGEND
- SILT FENCE (PR.)
- SEDIMENT CONTROL SOCK (PR.)
- STRAW BALE CHECK DAM (PR.)
- RIP RAP CHECK DAM (PR.)
- TOP OF SLOPE (PR.)
- BOTTOM OF SLOPE (PR.)
- DITCH (PR.)
- LIMITS OF ROADWAY DISTURBANCE (PR.)

NOT FOR CONSTRUCTION

No.	Description	Date	By
0	ISSUED FOR APPROVAL & TENDER	MAR 17/23	TSL

Revision or Issue

TOWN OF STRATFORD

COMMUNITY CAMPUS

SITE SERVICING
CIVIL

PLAN & PROFILE SEDIMENT POND 2

CBCL

CBCL No	Contract No	Date	Scale
222617.00	222617.00	MAR. 2023	AS NOTED

Designed	Drawn
AHG	AHG
Checked	Approved
PSH	TSL

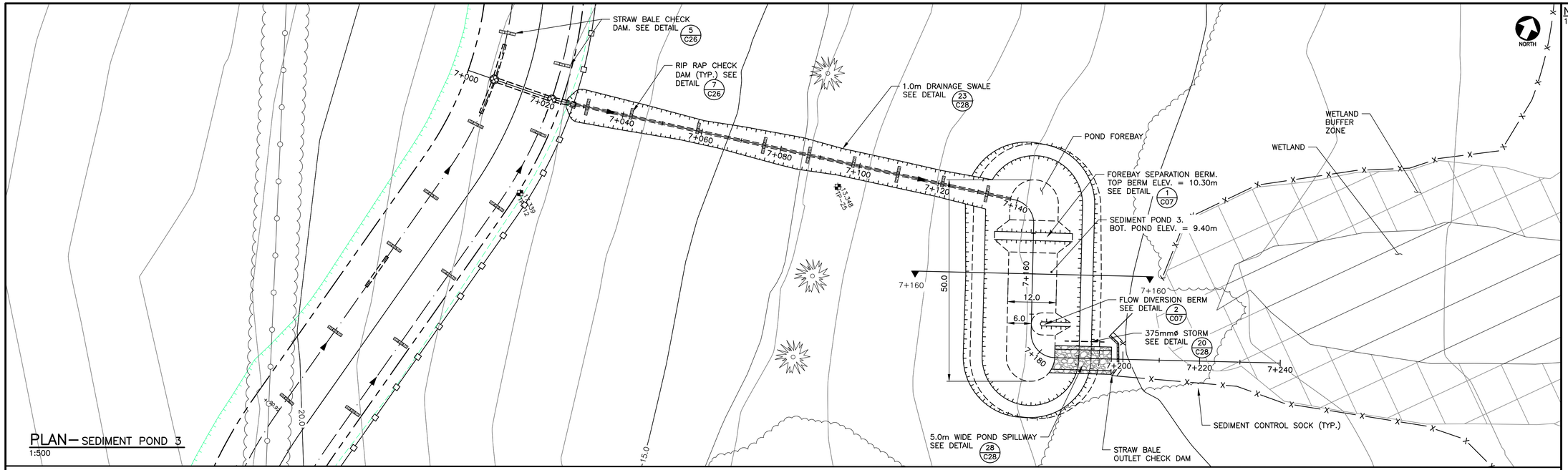
Sheet No 6 of 29

Drawing No **C06**

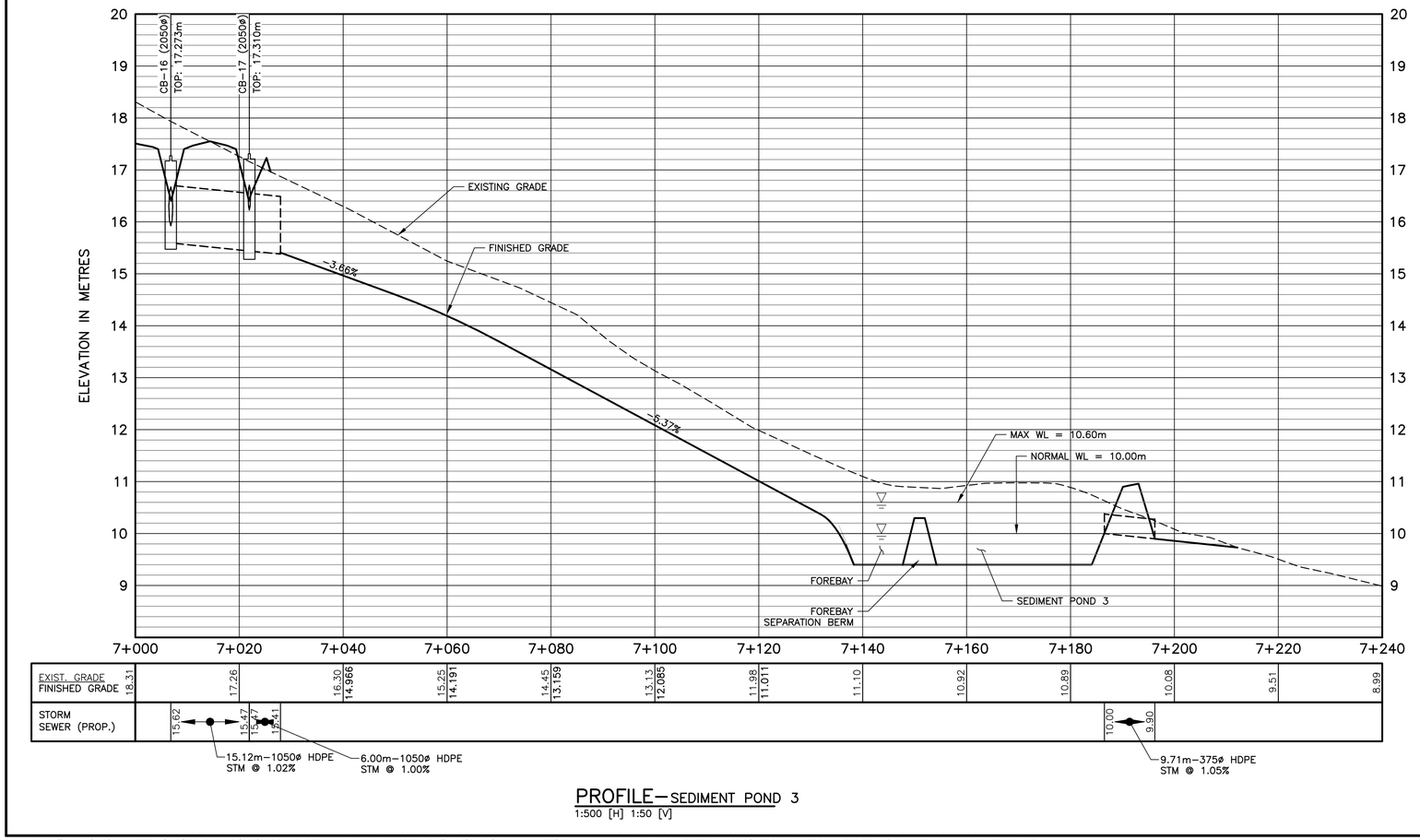
PROFESSIONAL ENGINEER — Arvey H Gilks 2494 — MARCH 17 2023 — PROVINCE OF PRINCE EDWARD ISLAND

DRAWING NAME: \\CBCL.LAN\CBCL\CHARLOTTETOWN\DATA\CBCL JOB FOLDERS\2022\222617.00 STRATFORD - COMMUNITY CAMPUS SITE SERVICING\44 CAD\01 CIVIL\03 DRAWING SHEETS\222617_PLAN-PROFILE.DWG LAYOUT NAME: C06 PLAN & PROFILE SEDIMENT POND 2 PLOT DATE: March 17, 2023 5:58:16 PM CAD OPERATOR: TLELACHEUR

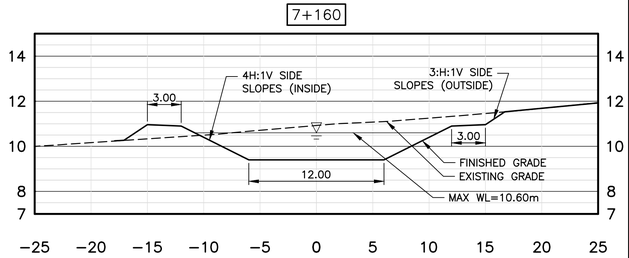
CBCL-610x914 TITLE SHEET (ARCH D)



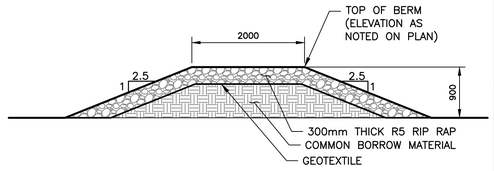
PLAN— SEDIMENT POND 3
1:500



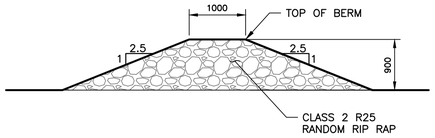
PROFILE— SEDIMENT POND 3
1:500 [H] 1:50 [V]



SECTION— SEDMIENT POND 3
1:250[H] 1:125[V]



1 DETAIL— FOREBAY SEPARATION BERM SECTION
N.T.S.



2 DETAIL— FLOW DIVERSION BERM SECTION
N.T.S.

NOTES
1. SEE ALL DRAWINGS FOR ADDITIONAL NOTES AND DETAILS.

LEGEND
- SILT FENCE (PR.)
- SEDIMENT CONTROL SOCK (PR.)
- STRAW BALE CHECK DAM (PR.)
- RIP RAP CHECK DAM (PR.)
- TOP OF SLOPE (PR.)
- BOTTOM OF SLOPE (PR.)
- DITCH (PR.)
- LIMITS OF ROADWAY DISTURBANCE (PR.)

NOT FOR CONSTRUCTION

No.	Description	Date	By
0	ISSUED FOR APPROVAL & TENDER	MAR 17/23	TSL

Revision or Issue

TOWN OF STRATFORD

COMMUNITY CAMPUS

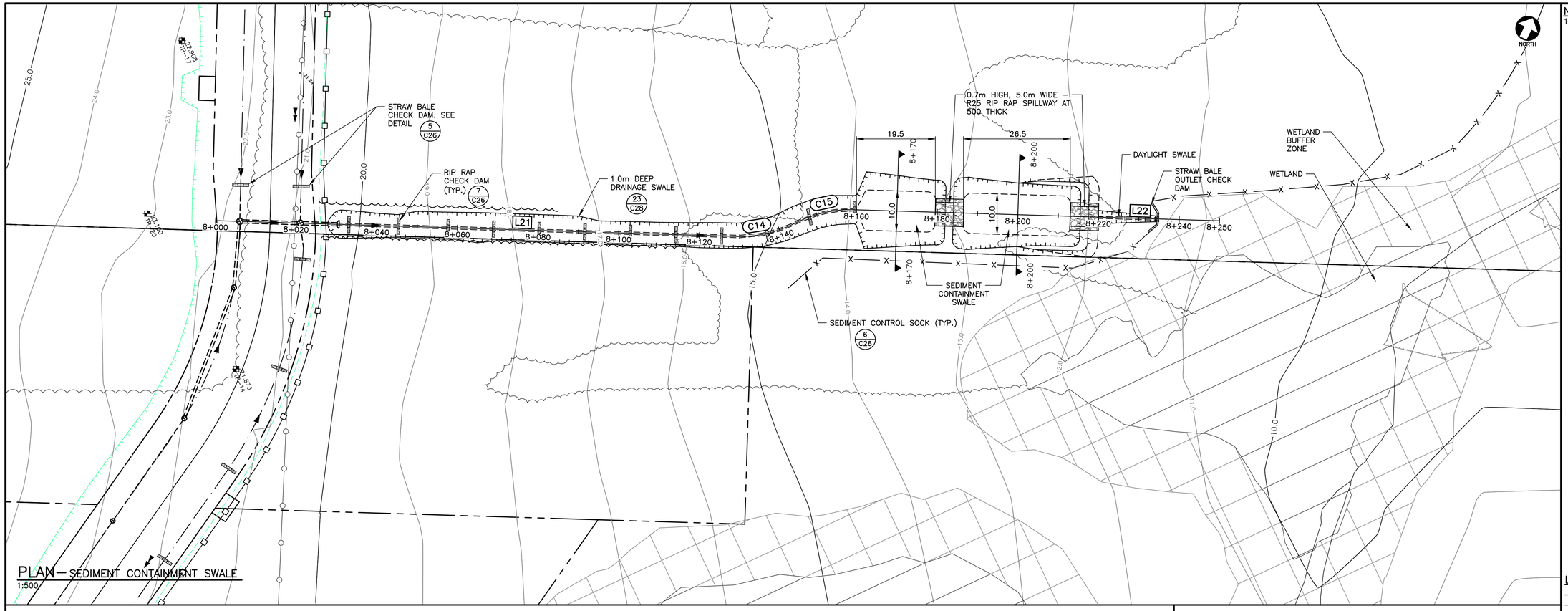
SITE SERVICING
CIVIL

PLAN, PROFILE & SECTION SEDIMENT POND 3

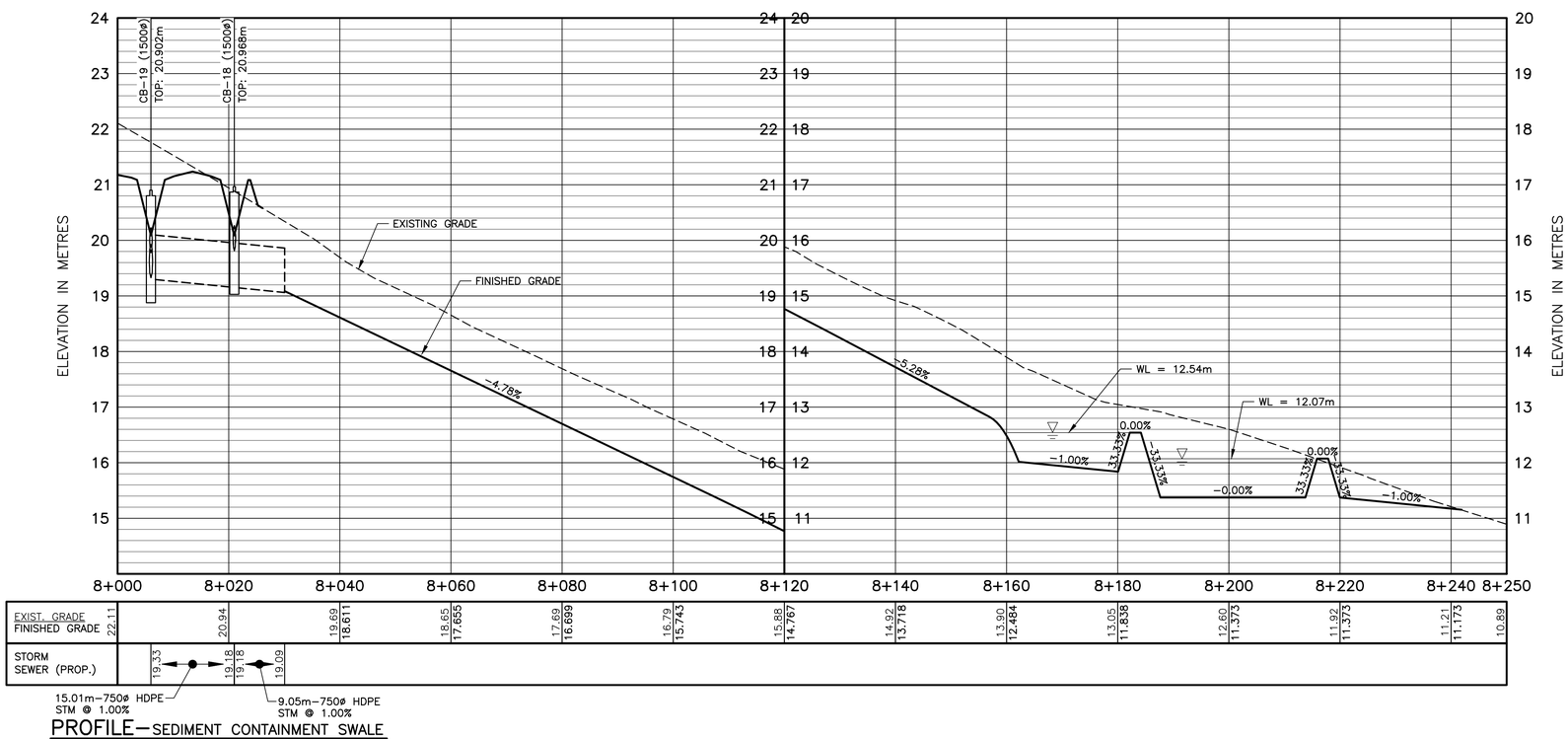
CBCL

CBCL No	Contract No	Date	Scale
222617.00	222617.00	MAR. 2023	AS NOTED
		Designed AHG	Drawn AHG
		Checked PSH	Approved TSL
		Sheet No 7 of 29	
		Drawing No C07	

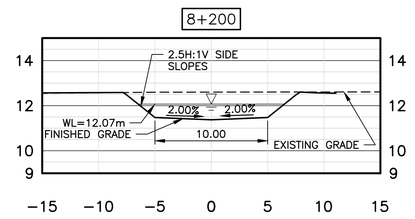
PROFESSIONAL ENGINEER — The Association of Professional Engineers of The Province of Prince Edward Island — Avery H Gilks 2494 — Date MARCH 17, 2023 — PROVINCE OF PRINCE EDWARD ISLAND



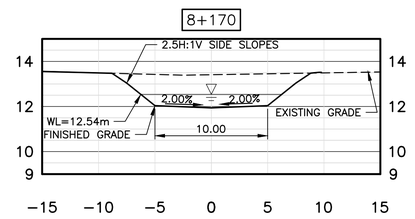
PLAN— SEDIMENT CONTAINMENT SWALE
1:500



PROFILE— SEDIMENT CONTAINMENT SWALE
1:500 [H] 1:50 [V]



SECTION— SEDIMENT CONTAINMENT SWALE
1:250



SECTION— SEDIMENT CONTAINMENT SWALE
1:250

NOTES
1. SEE ALL DRAWINGS FOR ADDITIONAL NOTES AND DETAILS.

LEGEND
- SILT FENCE (PR.)
- SEDIMENT CONTROL SOCK (PR.)
- STRAW BALE CHECK DAM (PR.)
- RIP RAP CHECK DAM (PR.)
- TOP OF SLOPE (PR.)
- BOTTOM OF SLOPE (PR.)
- DITCH (PR.)
- LIMITS OF ROADWAY DISTURBANCE (PR.)

NOT FOR CONSTRUCTION

No.	Description	Date	By
0	ISSUED FOR APPROVAL & TENDER	MAR 17/23	TSL

Revision or Issue

TOWN OF STRATFORD

COMMUNITY CAMPUS

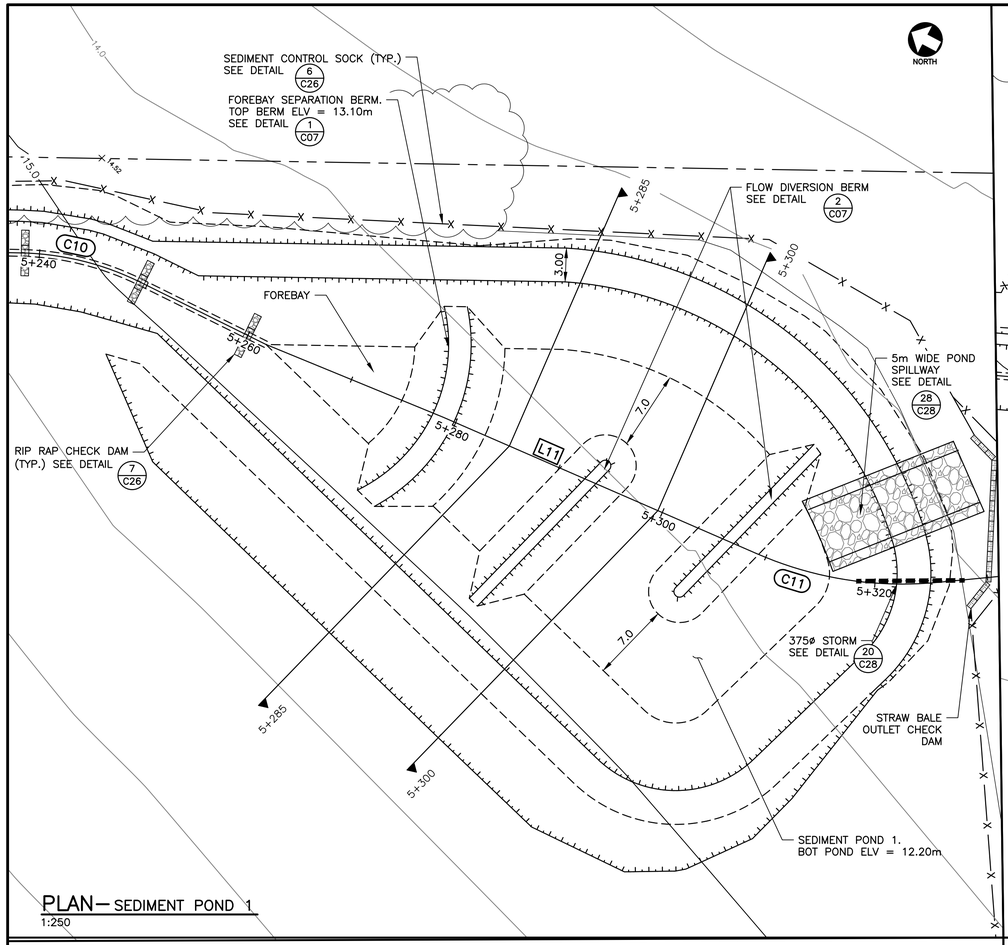
SITE SERVICING
CIVIL

PLAN, PROFILE & SECTIONS SEDIMENT CONTAINMENT SWALE

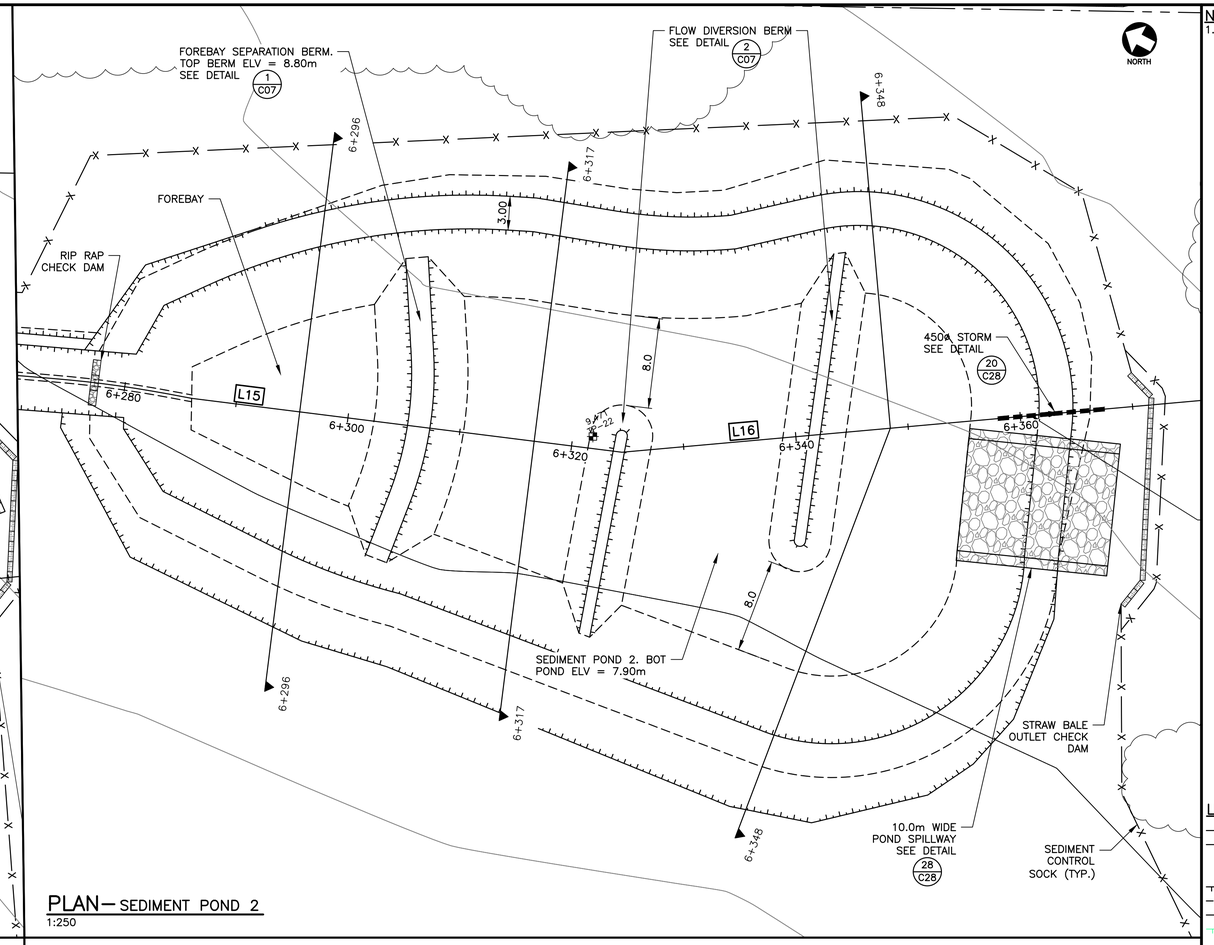
CBCL

CBCL No	Contract No	Date	Scale
222617.00	222617.00	MAR. 2023	AS NOTED
		Designed AHG	Drawn AHG
		Checked PSH	Approved TSL
		Sheet No 8 of 29	
		Drawing No C08	

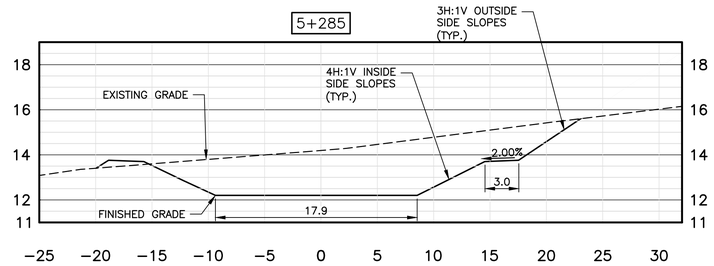
PROFESSIONAL ENGINEER — The Association Of Professional Engineers Of The Province Of Prince Edward Island — Arvey H Gilks 2494 — MARCH 17 2023 — Date — PROVINCE OF PRINCE EDWARD ISLAND

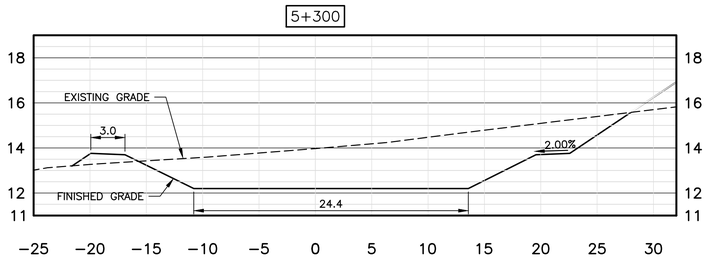


PLAN— SEDIMENT POND 1
1:250

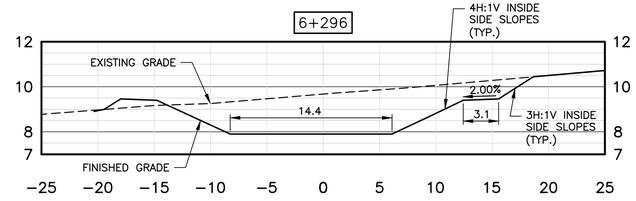


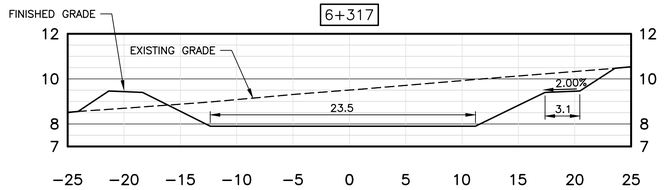
PLAN— SEDIMENT POND 2
1:250

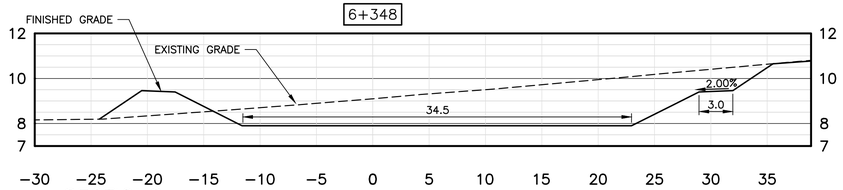




SECTIONS— SEDIMENT POND 1
1:250







SECTIONS— SEDIMENT POND 2
1:250

NOTES
1. SEE ALL DRAWINGS FOR ADDITIONAL NOTES AND DETAILS.

LEGEND
- SILT FENCE (PR.)
- SEDIMENT CONTROL SOCK (PR.)
- STRAW BALE CHECK DAM (PR.)
- RIP RAP CHECK DAM (PR.)
- TOP OF SLOPE (PR.)
- BOTTOM OF SLOPE (PR.)
- DITCH (PR.)
- LIMITS OF ROADWAY DISTURBANCE (PR.)

NOT FOR CONSTRUCTION

No.	Description	Date	By
0	ISSUED FOR APPROVAL & TENDER	MAR 17/23	TSL

Revision or Issue

TOWN OF STRATFORD

COMMUNITY CAMPUS

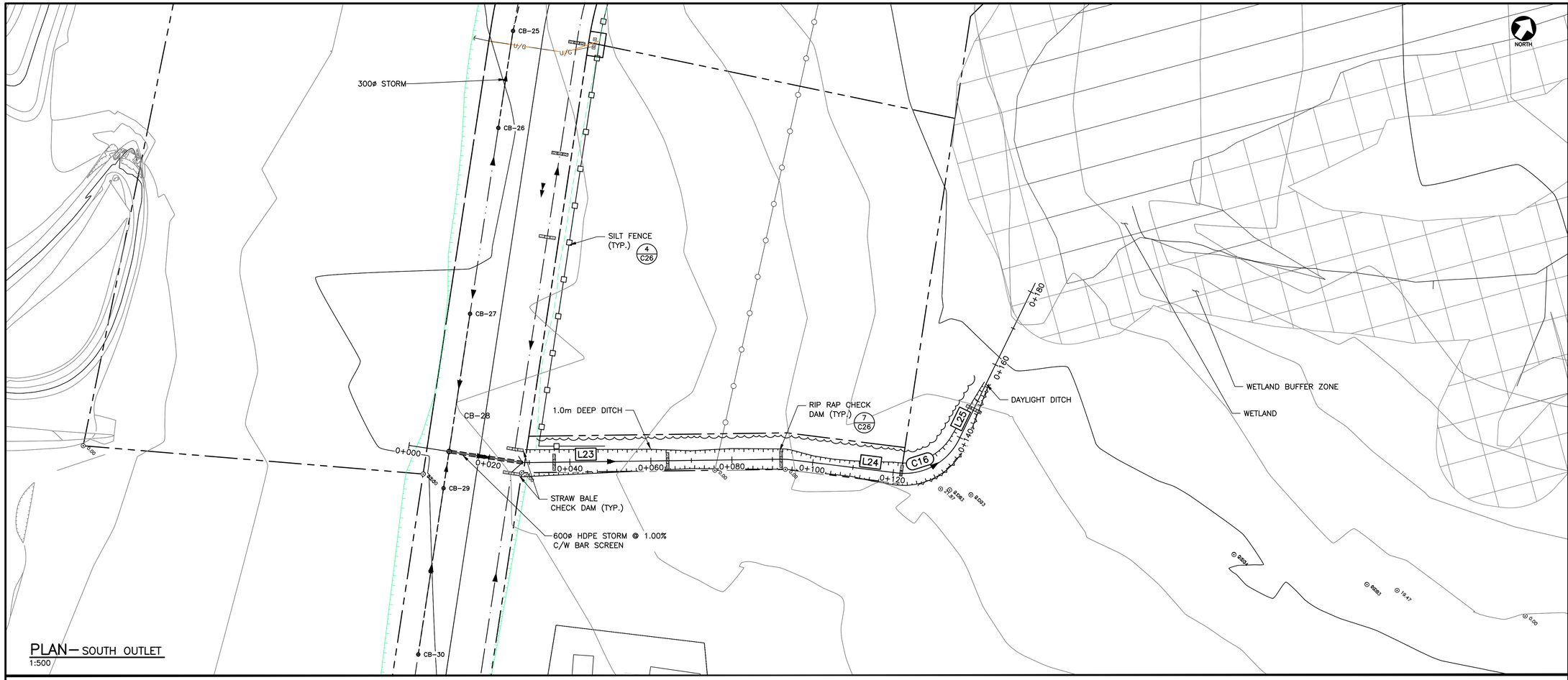
SITE SERVICING
CIVIL

PLAN & SECTIONS
SEDIMENT POND 1 & 2

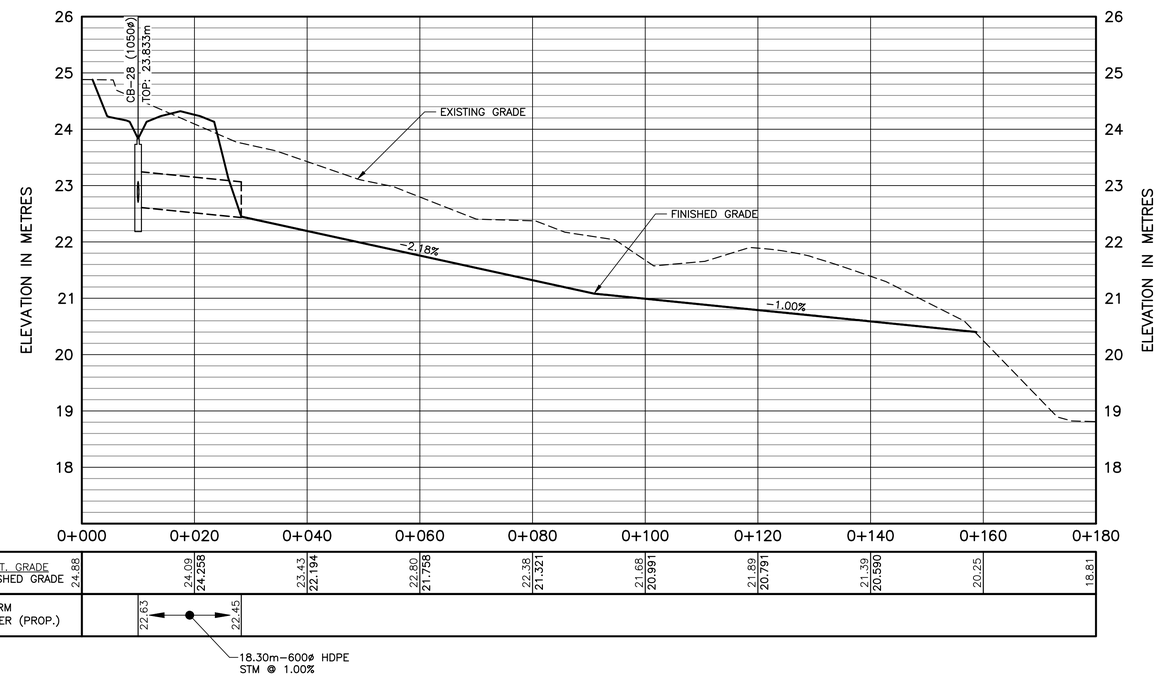
CBCL

CBCL No	Contract No	Date	Scale
222617.00	222617.00	MAR. 2023	AS NOTED
		Designed AHG	Drawn AHG
		Checked PSH	Approved TSL
		Sheet No 9 of 29	
		Drawing No C09	

PROFESSIONAL ENGINEER — The Association Of Professional Engineers Of The Province Of Prince Edward Island — Avery H Gillis 2494 — MARCH 17, 2023 Date — PROVINCE OF PRINCE EDWARD ISLAND



PLAN – SOUTH OUTLET
1:500



PROFILE – SOUTH OUTLET
1:500[H] 1:50[V]

NOTES
1. SEE ALL DRAWINGS FOR ADDITIONAL NOTES AND DETAILS.

LEGEND
- SILT FENCE (PR.)
- SEDIMENT CONTROL SOCK (PR.)
- STRAW BALE CHECK DAM (PR.)
- RIP RAP CHECK DAM (PR.)
- TOP OF SLOPE (PR.)
- BOTTOM OF SLOPE (PR.)
- DITCH (PR.)
- LIMITS OF ROADWAY DISTURBANCE (PR.)

NOT FOR CONSTRUCTION

No.	Description	Date	By
0	ISSUED FOR APPROVAL & TENDER	MAR 17/23	TSL

Revision or Issue

TOWN OF STRATFORD

COMMUNITY CAMPUS

SITE SERVICING
CIVIL

PLAN & PROFILE SOUTH OUTLET

CBCL

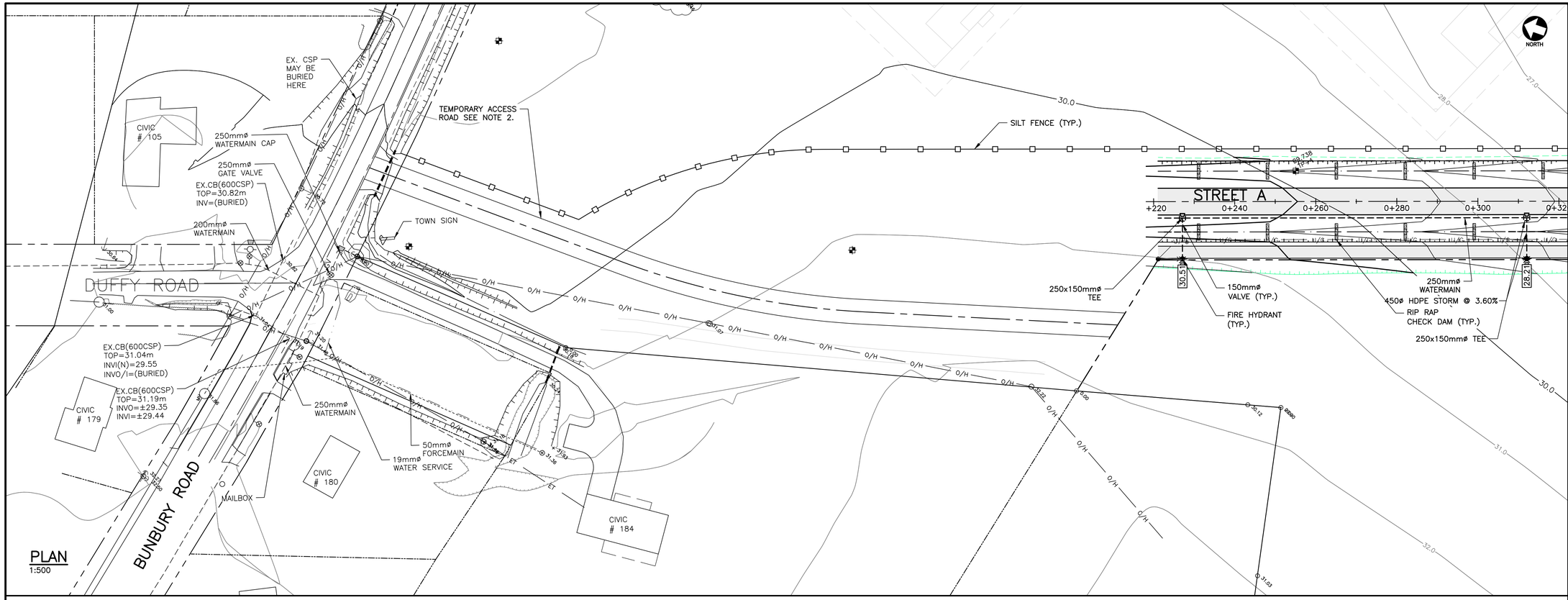
CBCL No	Contract No	Date	Scale
222617.00	222617.00	MAR. 2023	AS NOTED

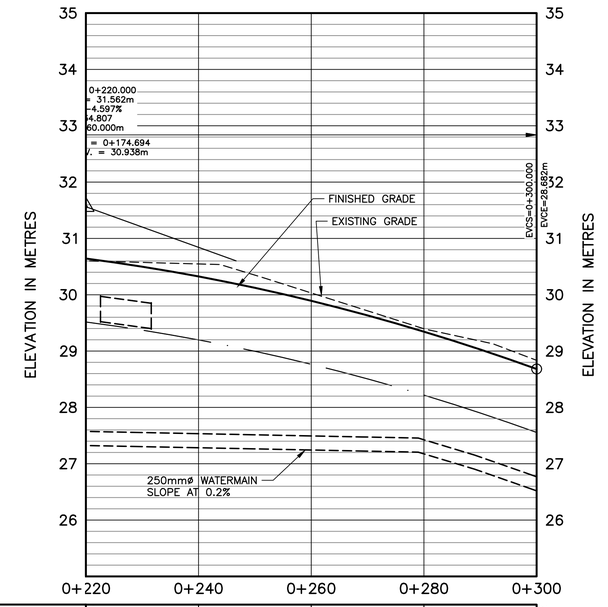
Designed	Drawn
AHG	AHG
Checked	Approved
PSH	TSL

Sheet No 10 of 29

Drawing No **C10**

PROFESSIONAL ENGINEER – THE ASSOCIATION OF PROFESSIONAL ENGINEERS OF PRINCE EDWARD ISLAND – Avery H Gilks 2494 – MARCH 17 2023 – PROVINCE OF PRINCE EDWARD ISLAND





EXIST. GRADE FINISHED GRADE	30.643	30.55 30.325	30.03 29.892	29.40 29.345	28.84 28.682
STORM SEWER (PROP.)	29.52 29.40				

9.00m–450ø HDPE
STM @ 1.37%

PROFILE
1:500 [H] 1:50 [V]

NOTES

1. SEE ALL DRAWINGS FOR ADDITIONAL NOTES AND DETAILS.
2. CONTRACTOR SHALL STRIP TOP SOIL TO NATURAL TILL AND REPLACE WITH SELECT BORROW BACK TO ORIGINAL GRADE AND SUCH THAT POSITIVE DRAINAGE IS PROVIDED.

LEGEND

- SILT FENCE (PR.)
- STRAW BALE CHECK DAM (PR.)
- RIP RAP CHECK DAM (PR.)
- WATERMAIN (EX.)
- WATERMAIN (PR.)
- GATE VALVE (EX.)
- GATE VALVE (PR.)
- AIR RELEASE VALVE (PR.)
- WATERMAIN FITTINGS (EX.)
- WATERMAIN FITTINGS (PR.)
- WATERMAIN BENDS (EX.)
- WATERMAIN BENDS (PR.)
- FIRE HYDRANT (EX.)
- FIRE HYDRANT (PR.)
- SANITARY SEWER (EX.)
- SANITARY SEWER (PR.)
- SANITARY MH (EX.)
- SANITARY MH (PR.)
- SANITARY FORCEMAIN (EX.)
- SANITARY FORCEMAIN (PR.)
- STORM SEWER (EX.)
- STORM SEWER (PR.)
- STORM CATCHBASIN (RND.) (EX.)
- STORM CATCHBASIN (RND.) (PR.)
- DITCH (PR.)
- SWALE (PR.)
- TOP OF SLOPE (PR.)
- BOTTOM OF SLOPE (PR.)
- LIMITS OF ROADWAY DISTURBANCE (PR.)
- ×19.00 SPOT ELEVATION (PR.)

NOT FOR CONSTRUCTION

No.	Description	Date	By
0	ISSUED FOR APPROVAL & TENDER	MAR 17/23	TSL

Revision or Issue

TOWN OF STRATFORD

COMMUNITY CAMPUS

SITE SERVICING

CIVIL

PLAN & PROFILE STREET A

STA 0+220 TO 0+300

CBCL

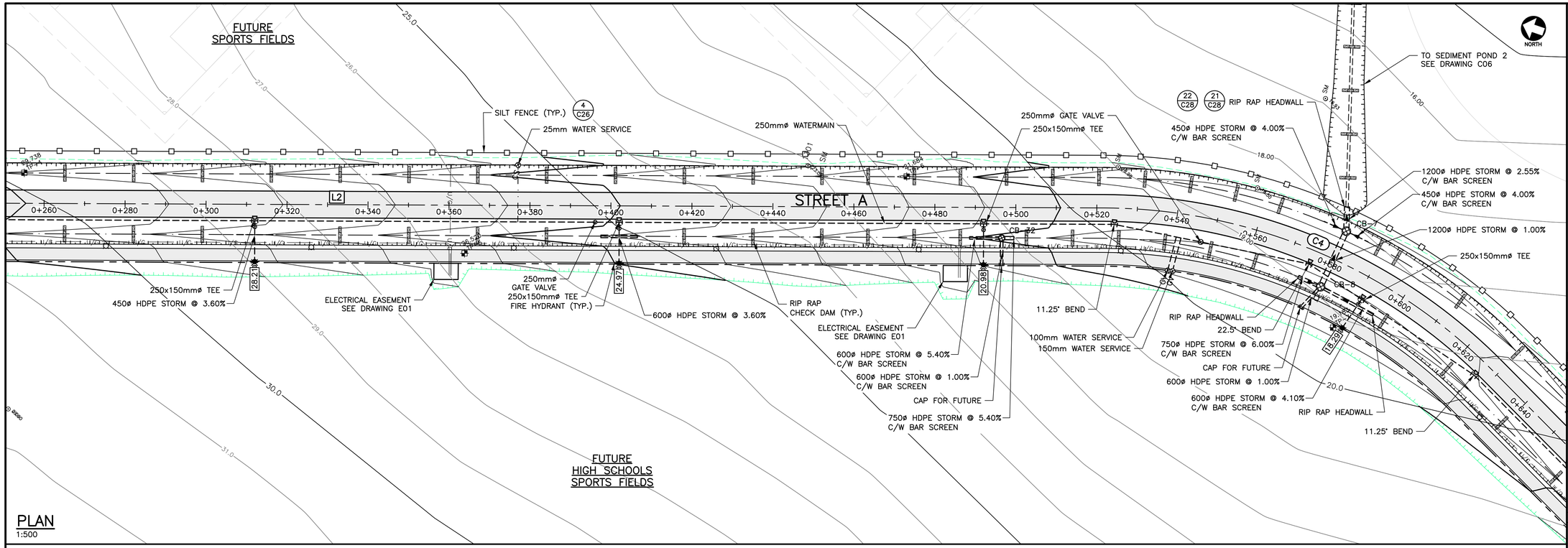
CBCL No	Contract No	Date	Scale
222617.00	222617.00	MAR. 2023	AS NOTED

Designed	Drawn
TSL	DRC
Checked	Approved
PSH	TSL

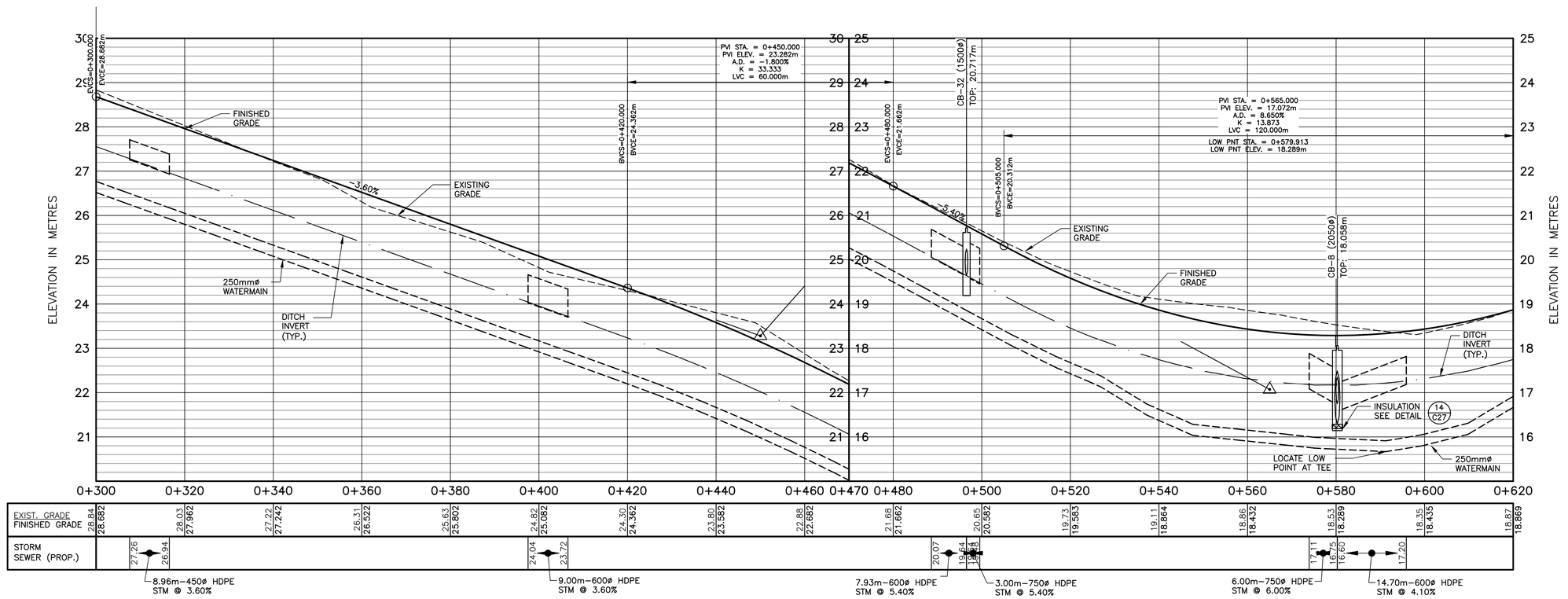
Sheet No 11 of 29

Drawing No **C11**

PROFESSIONAL ENGINEER — Tim LeLacheur 1453 — Mar 17 2023 DATE — PROVINCE OF PRINCE EDWARD ISLAND



PLAN
1:500



NOTES
1. SEE ALL DRAWINGS FOR ADDITIONAL NOTES AND DETAILS.

LEGEND

- SILT FENCE (PR.)
- STRAW BALE CHECK DAM (PR.)
- RIP RAP CHECK DAM (PR.)
- WATERMAIN (EX.)
- WATERMAIN (PR.)
- GATE VALVE (EX.)
- GATE VALVE (PR.)
- AIR RELEASE VALVE (PR.)
- WATERMAIN FITTINGS (EX.)
- WATERMAIN FITTINGS (PR.)
- WATERMAIN BENDS (EX.)
- WATERMAIN BENDS (PR.)
- FIRE HYDRANT (EX.)
- FIRE HYDRANT (PR.)
- SANITARY SEWER (EX.)
- SANITARY SEWER (PR.)
- SANITARY MH (EX.)
- SANITARY MH (PR.)
- SANITARY FORCEMAIN (EX.)
- SANITARY FORCEMAIN (PR.)
- STORM SEWER (EX.)
- STORM SEWER (PR.)
- STORM CATCHBASIN (RND.) (EX.)
- STORM CATCHBASIN (RND.) (PR.)
- DITCH (PR.)
- SWALE (PR.)
- TOP OF SLOPE (PR.)
- BOTTOM OF SLOPE (PR.)
- LIMITS OF ROADWAY DISTURBANCE (PR.)
- ×19.00 SPOT ELEVATION (PR.)

NOT FOR CONSTRUCTION

No.	Description	Date	By
0	ISSUED FOR APPROVAL & TENDER	MAR 17/23	TSL

Revision or Issue

TOWN OF STRATFORD

COMMUNITY CAMPUS

SITE SERVICING

CIVIL

PLAN & PROFILE STREET A

STA 0+300 TO 0+620

CBCL

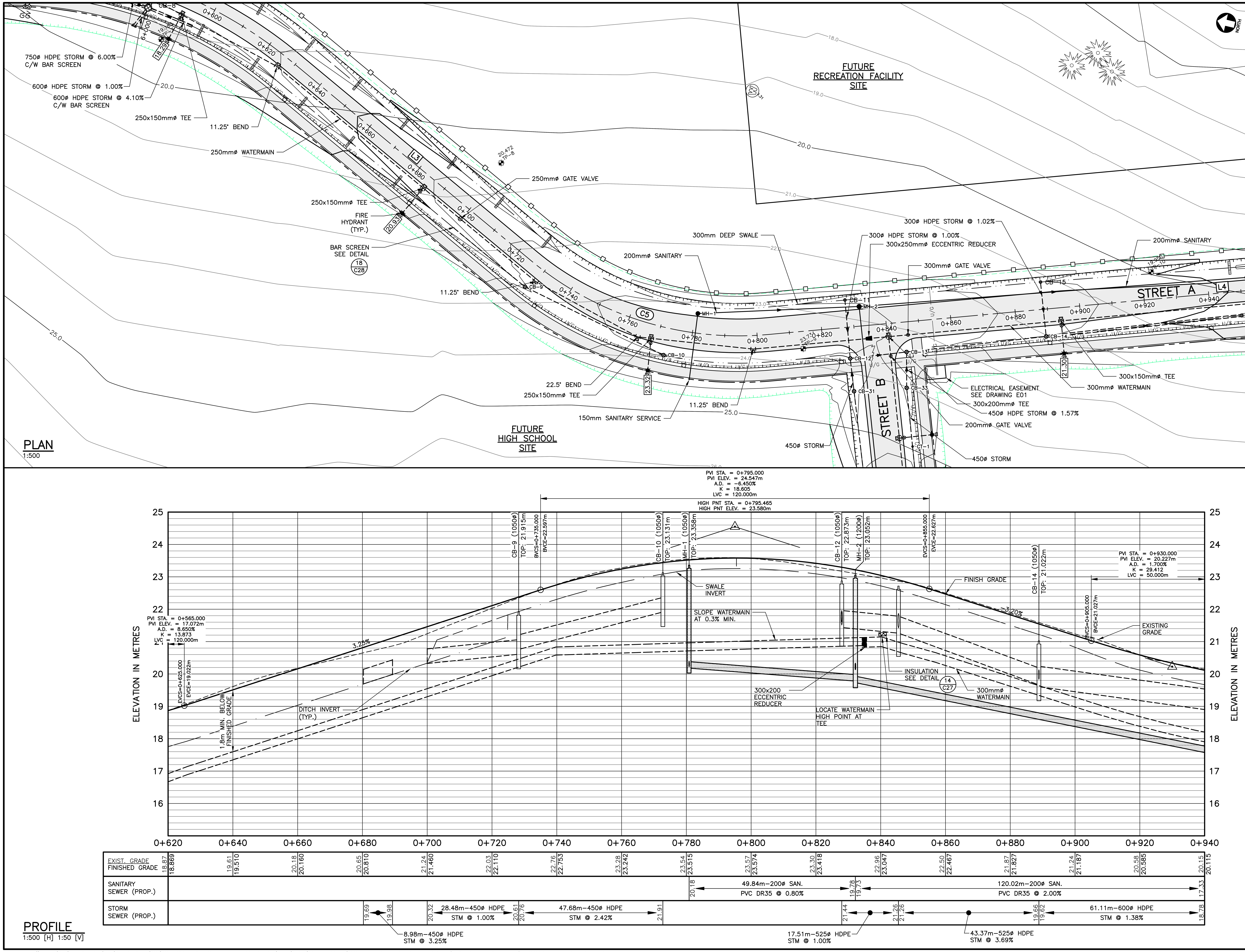
CBCL No	Contract No	Date	Scale
222617.00	222617.00	MAR. 2023	AS NOTED

Designed	Drawn
TSL	DRC
Checked	Approved
PSH	TSL

Sheet No 12 of 29

Drawing No **C12**

PROFESSIONAL ENGINEER — The Association Of Professional Engineers Of The Province Of Prince Edward Island — Tim LeLacheur 1453 — Mar 17 2023 Date — Province of Prince Edward Island



NOTES
1. SEE ALL DRAWINGS FOR ADDITIONAL NOTES AND DETAILS.

NOT FOR CONSTRUCTION

No.	Description	Date	By
0	ISSUED FOR APPROVAL & TENDER	MAR 17/23	TSL

Revision or Issue

TOWN OF STRATFORD

COMMUNITY CAMPUS

SITE SERVICING
CIVIL

PLAN & PROFILE STREET A

STA 0+620 TO 0+940

CBCL

CBCL No	Contract No	Date	Scale
222617.00	222617.00	MAR. 2023	AS NOTED

Designed	Drawn
TSL	DRC
Checked	Approved
PSH	TSL

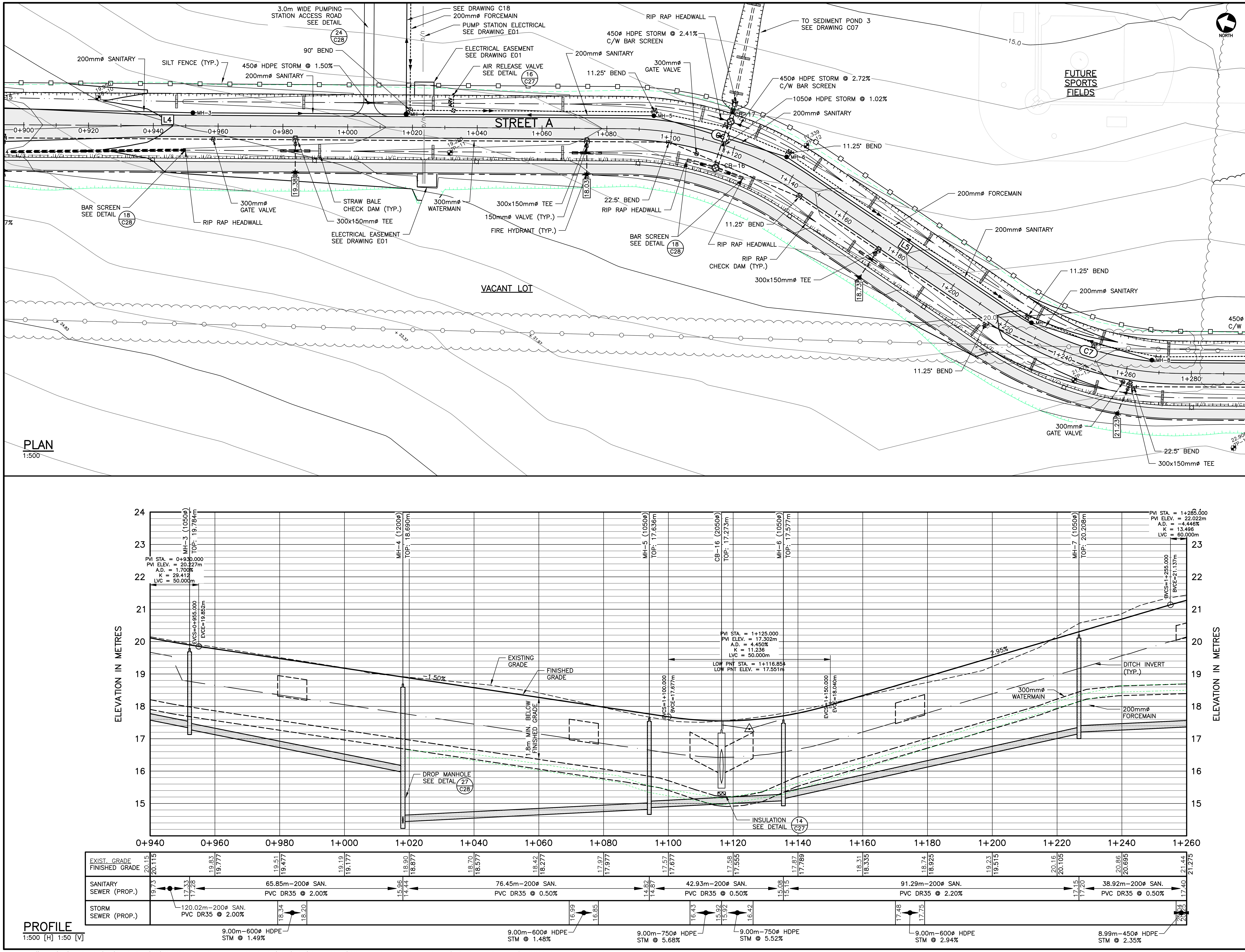
Sheet No 13 of 29

Drawing No C13

PROFESSIONAL ENGINEER — The Association of Professional Engineers of the Province of Prince Edward Island — Tim LeLacheur 1453 — Mar 17, 2023 — Date — Province of Prince Edward Island

DRAWING NAME: \\CBCL.LAN\CBCL\CHARLOTTETOWN\DATA\CBCL JOB FOLDERS\2022\222617.00 STRATFORD - COMMUNITY CAMPUS SITE SERVICING\44 CAD\01 CIVIL\03 DRAWING SHEETS\222617_PLAN-PROFILE.DWG LAYOUT NAME: C13 PLAN & PROFILE STREET A PLOT DATE: March 17, 2023 6:01:15 PM CAD OPERATOR: TLELACHEUR

CBCL-610x914 TITLE SHEET (ARCH D)



NOTES

1. SEE ALL DRAWINGS FOR ADDITIONAL NOTES AND DETAILS.

LEGEND

- SILT FENCE (PR.)
- STRAW BALE CHECK DAM (PR.)
- RIP RAP CHECK DAM (PR.)
- WATERMAIN (EX.)
- WATERMAIN (PR.)
- GATE VALVE (EX.)
- GATE VALVE (PR.)
- AIR RELEASE VALVE (PR.)
- WATERMAIN FITTINGS (EX.)
- WATERMAIN FITTINGS (PR.)
- WATERMAIN BENDS (EX.)
- WATERMAIN BENDS (PR.)
- FIRE HYDRANT (EX.)
- FIRE HYDRANT (PR.)
- SANITARY SEWER (EX.)
- SANITARY SEWER (PR.)
- SANITARY MH (EX.)
- SANITARY MH (PR.)
- SANITARY FORCEMAIN (EX.)
- SANITARY FORCEMAIN (PR.)
- STORM SEWER (EX.)
- STORM SEWER (PR.)
- STORM CATCHBASIN (RND.) (EX.)
- STORM CATCHBASIN (RND.) (PR.)
- DITCH (PR.)
- SWALE (PR.)
- TOP OF SLOPE (PR.)
- BOTTOM OF SLOPE (PR.)
- LIMITS OF ROADWAY DISTURBANCE (PR.)
- ×19.00 SPOT ELEVATION (PR.)

NOT FOR CONSTRUCTION

No.	Description	Date	By
0	ISSUED FOR APPROVAL & TENDER	MAR 17/23	TSL

Revision or Issue

Town of Stratford PRINCE EDWARD ISLAND

TOWN OF STRATFORD

COMMUNITY CAMPUS

SITE SERVICING
CIVIL

PLAN & PROFILE STREET A

STA 0+960 TO 1+280

CBCL

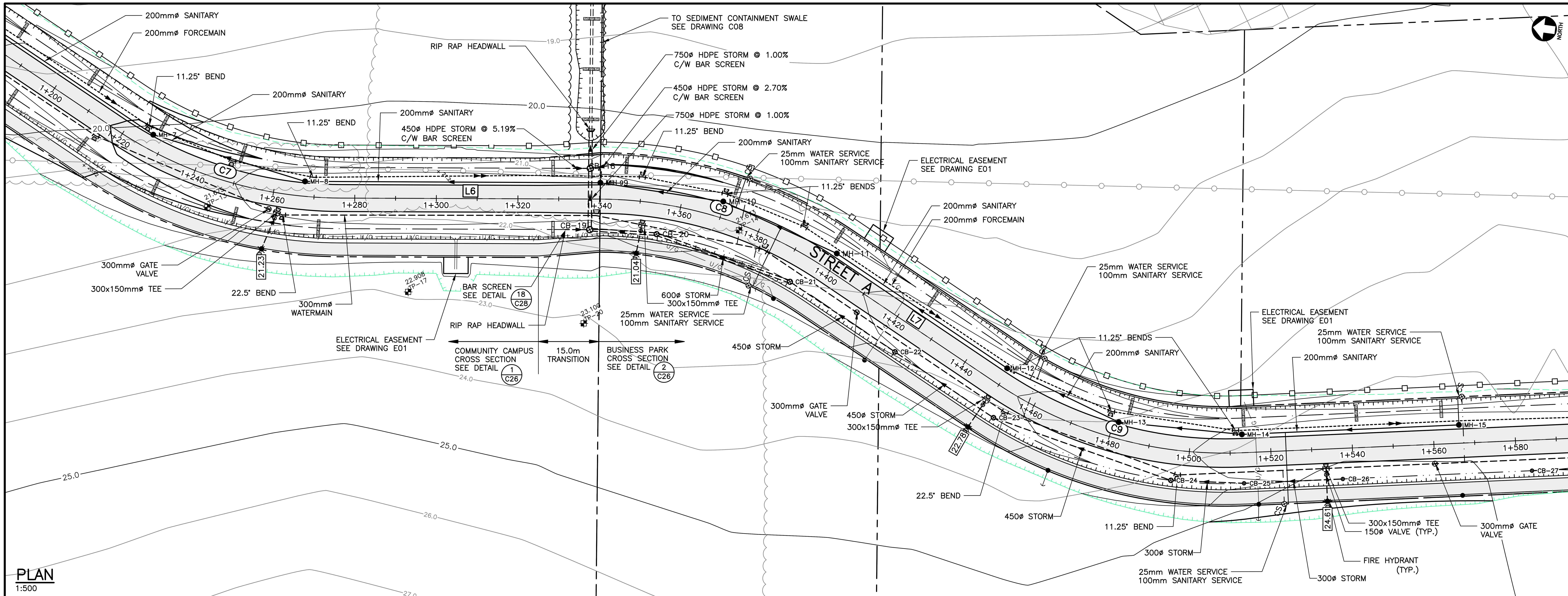
CBCL No	Contract No	Date	Scale
222617.00	222617.00	MAR. 2023	AS NOTED

Designed	Drawn	Checked	Approved
TSL	TSL	PSH	TSL

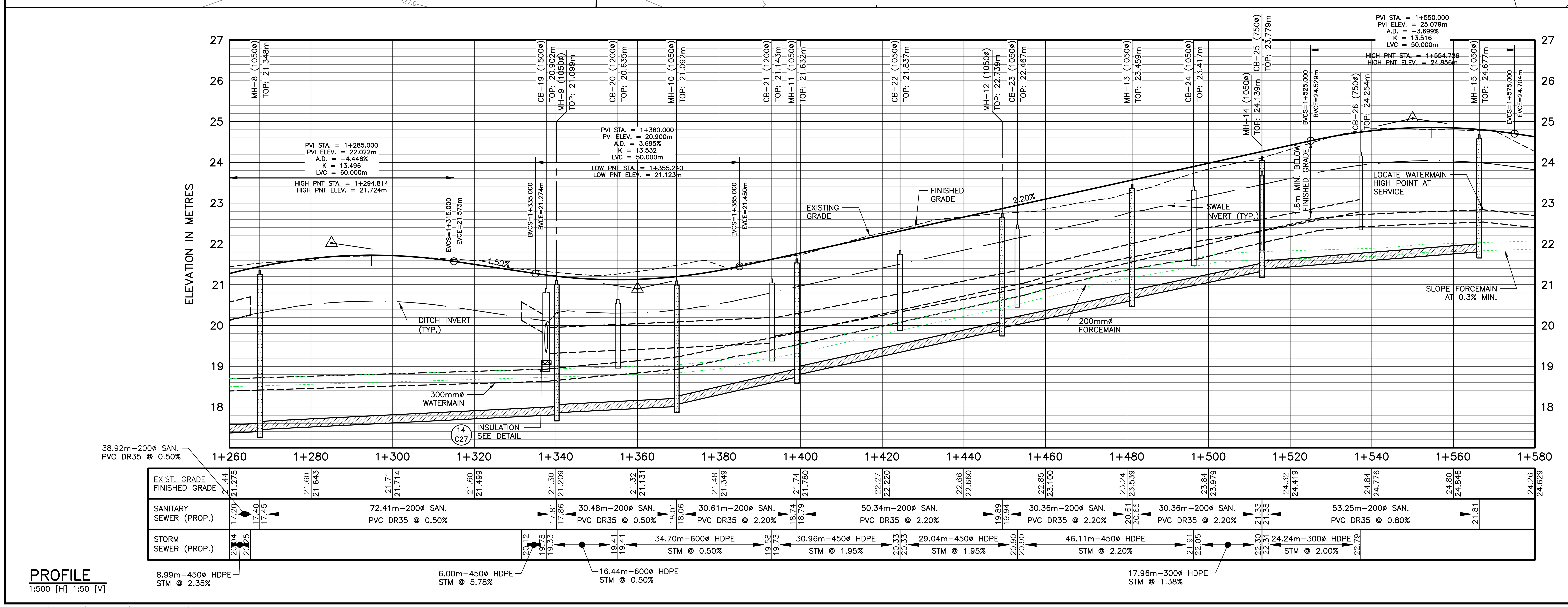
PROFESSIONAL ENGINEER — The Association of Professional Engineers of the Province of Prince Edward Island — Tim LeLacheur 1453 — Mar 17, 2023 — Date — Province of Prince Edward Island

Sheet No 14 of 29

Drawing No **C14**



PLAN
1:500



PROFILE
1:500 [H] 1:50 [V]

NOTES
1. SEE ALL DRAWINGS FOR ADDITIONAL NOTES AND DETAILS.

LEGEND
- SILT FENCE (PR.)
- STRAW BALE CHECK DAM (PR.)
- RIP RAP CHECK DAM (PR.)
- WATERMAIN (EX.)
- WATERMAIN (PR.)
- GATE VALVE (EX.)
- GATE VALVE (PR.)
- ARV AIR RELEASE VALVE (PR.)
- WATERMAIN FITTINGS (EX.)
- WATERMAIN FITTINGS (PR.)
- WATERMAIN BENDS (EX.)
- WATERMAIN BENDS (PR.)
- FIRE HYDRANT (EX.)
- FIRE HYDRANT (PR.)
- SANITARY SEWER (EX.)
- SANITARY SEWER (PR.)
- SANITARY MH (EX.)
- SANITARY MH (PR.)
- SANITARY FORCEMAIN (EX.)
- SANITARY FORCEMAIN (PR.)
- STORM SEWER (EX.)
- STORM SEWER (PR.)
- STORM CATCHBASIN (RND.) (EX.)
- STORM CATCHBASIN (RND.) (PR.)
- DITCH (PR.)
- SWALE (PR.)
- TOP OF SLOPE (PR.)
- BOTTOM OF SLOPE (PR.)
- LIMITS OF ROADWAY DISTURBANCE (PR.)
- ×19.00 SPOT ELEVATION (PR.)

NOT FOR CONSTRUCTION

No.	Description	Date	By
0	ISSUED FOR APPROVAL & TENDER	MAR 17/23	TSL

Revision or Issue

Town of Stratford PRINCE EDWARD ISLAND

TOWN OF STRATFORD

COMMUNITY CAMPUS

SITE SERVICING
CIVIL

PLAN & PROFILE STREET A

STA 1+260 TO 1+580

CBCL

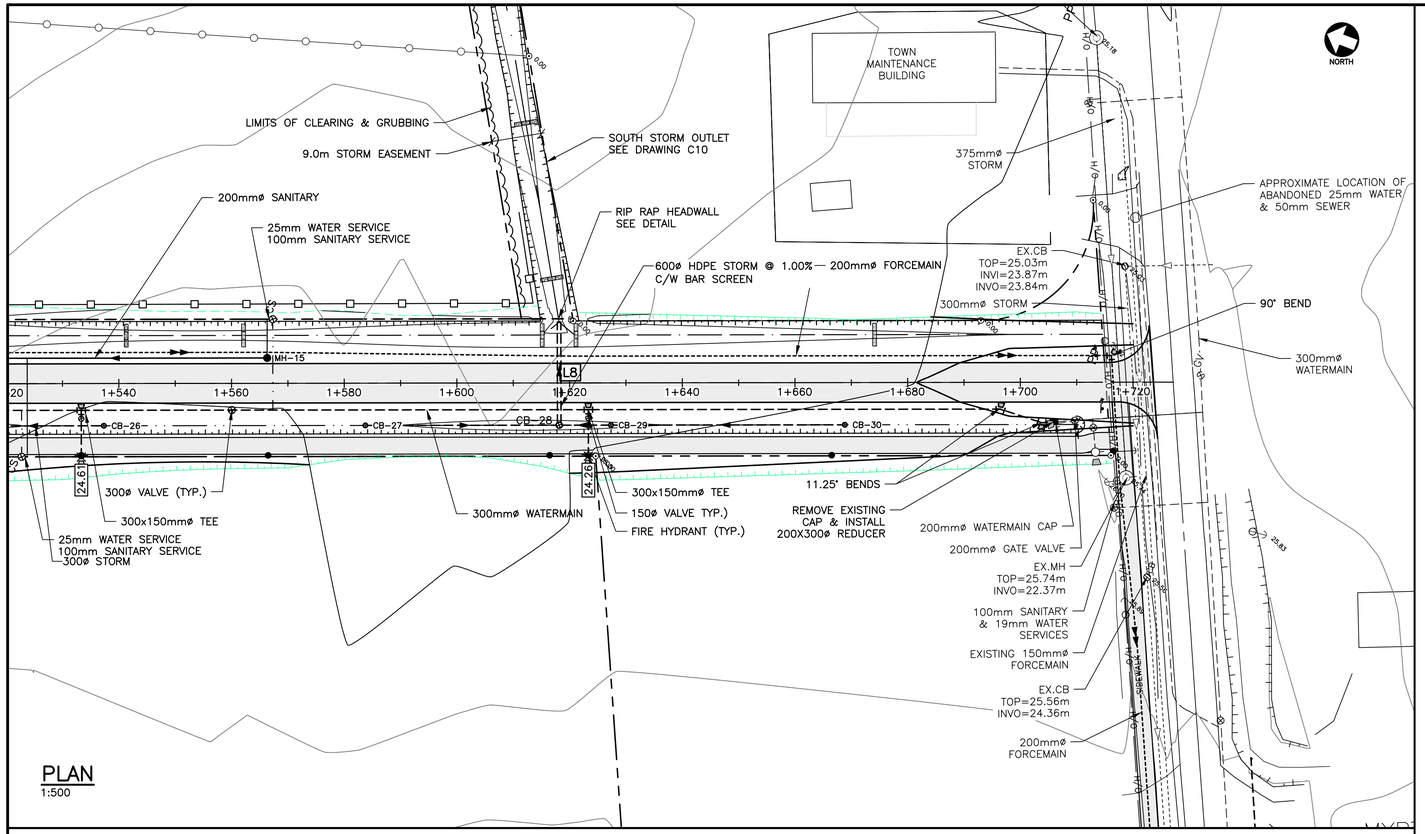
CBCL No	Contract No	Date	Scale
222617.00	222617.00	MAR. 2023	AS NOTED

PROFESSIONAL ENGINEER — The Association of Professional Engineers of the Province of Prince Edward Island — Tim LeLacheur 1453 — Mar 17, 2023 — DATE — PROVINCE OF PRINCE EDWARD ISLAND

Designed	Drawn
TSL	DRC
Checked	**Approved**
PSH	TSL

Sheet No 15 of 29

Drawing No **C15**



PLAN
1:500

PROFILE
1:500 [H] 1:50 [V]

SEDIMENT POND 1

LINE/CURVE No.	STATION	COORDINATES	LINE/CURVE DATA
L10	5+000.000	N=686970.684 E=394242.126	BEARING=S18°03'05.34"E LENGTH=238.243m
C10	BC=5+238.243 EC=5+249.330	N=686744.168 E=394315.950 N=686733.219 E=394316.975	I=25°24'37.48" R=25.000m T=5.636m L=11.087m
L11	5+278.838	N=686703.843 E=394314.384	BEARING=S4°30'25.84"W LENGTH=30.385m
C11	BC=5+309.222 EC=5+325.562	N=686673.552 E=394311.996 N=686657.634 E=394314.810	I=29°03'56.26" R=32.210m T=8.350m L=16.340m
L12	5+325.562	N=686657.634 E=394314.810	BEARING=S24°33'30.42"E LENGTH=34.438m

SEDIMENT POND 2

LINE/CURVE No.	STATION	COORDINATES	LINE/CURVE DATA
L13	6+021.940	N=686539.771 E=394186.651	BEARING=N72°50'35.10"E LENGTH=90.539m
C12	BC=6+112.479 EC=6+174.393	N=686566.480 E=394273.162 N=686557.795 E=394332.420	I=50°59'24.58" R=69.570m T=33.176m L=61.914m
L14	6+227.308	N=686517.810 E=394366.004	BEARING=S14°12'57.48"E LENGTH=46.387m
L15	6+286.023	N=686460.741 E=394379.710	BEARING=S11°51'34.02"E LENGTH=38.484m
L16	6+324.508	N=686423.078 E=394387.619	BEARING=S24°06'26.75"E LENGTH=31.056m
L17	6+384.890	N=686367.962 E=394412.282	BEARING=S60°12'15.60"E LENGTH=38.940m

SEDIMENT POND 3

LINE/CURVE No.	STATION	COORDINATES	LINE/CURVE DATA
L18	7+021.940	N=686034.237 E=394220.646	BEARING=N82°15'18.30"E LENGTH=117.397m
C2	BC=7+139.337 EC=7+147.622	N=686050.058 E=394336.972 N=686046.029 E=394343.466	I=79°06'53.05" R=6.000m T=4.956m L=8.285m
L19	7+147.622	N=686046.029 E=394343.466	BEARING=S18°37'48.64"E LENGTH=27.040m
C13	BC=7+174.662 EC=7+184.088	N=686020.406 E=394352.104 N=686016.638 E=394359.707	I=90°00'22.90" R=6.000m T=6.001m L=9.425m
L20	7+184.088	N=686016.638 E=394359.707	BEARING=N71°21'48.45"E LENGTH=55.912m

SEDIMENT CONTAINMENT SWALE

LINE/CURVE No.	STATION	COORDINATES	LINE/CURVE DATA
L21	8+000.000	N=685815.567 E=394198.974	BEARING=N71°44'17.44"E LENGTH=129.090m
C14	BC=8+129.090 EC=8+143.087	N=685856.019 E=394321.562 N=685863.292 E=394333.372	I=26°43'57.22" R=30.000m T=7.128m L=13.997m
C15	BC=8+145.503 EC=8+159.500	N=685865.001 E=394335.081 N=685872.275 E=394346.891	I=26°43'58.69" R=30.000m T=7.128m L=13.997m
L22	8+159.500	N=685872.275 E=394346.891	BEARING=N71°44'17.02"E LENGTH=90.500m

STREET A

LINE/CURVE No.	STATION	COORDINATES	LINE/CURVE DATA
L2	0+142.814	N=686957.365 E=394051.680	BEARING=S18°37'48.64"E LENGTH=378.994m
C4	BC=0+521.808 EC=0+628.622	N=686598.231 E=394172.752 N=686494.378 E=394165.727	I=45°00'00.00" R=136.000m T=56.333m L=106.814m
L3	0+628.622	N=686494.378 E=394165.727	BEARING=S26°22'11.36"W LENGTH=96.281m
C5	BC=0+724.903 EC=0+803.443	N=686408.116 E=394122.963 N=686331.754 E=394117.797	I=45°00'00.00" R=100.000m T=41.421m L=78.540m
L4	0+803.443	N=686331.754 E=394117.797	BEARING=S18°37'48.64"E LENGTH=281.914m
C6	BC=1+085.357 EC=1+144.262	N=686064.612 E=394207.857 N=686006.582 E=394209.635	I=33°45'00.00" R=100.000m T=30.335m L=58.905m
L5	1+144.262	N=686006.582 E=394209.635	BEARING=S15°07'11.36"W LENGTH=73.387m
C7	BC=1+217.648 EC=1+276.553	N=685935.736 E=394190.493 N=685877.706 E=394192.271	I=33°45'00.00" R=100.000m T=30.335m L=58.905m
L6	1+276.553	N=685877.706 E=394192.271	BEARING=S18°37'48.64"E LENGTH=63.611m
C8	BC=1+340.164 EC=1+399.069	N=685817.429 E=394212.592 N=685759.399 E=394214.371	I=33°45'00.00" R=100.000m T=30.335m L=58.905m
L7	1+399.069	N=685759.399 E=394214.371	BEARING=S15°07'11.36"W LENGTH=50.336m
C9	BC=1+449.405 EC=1+513.081	N=685710.806 E=394201.241 N=685648.293 E=394204.651	I=36°29'01.39" R=100.000m T=32.959m L=63.676m
L8	1+513.081	N=685648.293 E=394204.651	BEARING=S21°21'50.04"E LENGTH=214.084m

STREET B

LINE/CURVE No.	STATION	COORDINATES	LINE/CURVE DATA
L9	2+000.000	N=686300.621 E=394128.293	BEARING=S70°34'55.12"W LENGTH=223.081m

NOTES
1. SEE ALL DRAWINGS FOR ADDITIONAL NOTES AND DETAILS.

LEGEND
- SILT FENCE (PR.)
- STRAW BALE CHECK DAM (PR.)
- RIP RAP CHECK DAM (PR.)
- WATERMAIN (EX.)
- WATERMAIN (PR.)
- GATE VALVE (EX.)
- GATE VALVE (PR.)
- AIR RELEASE VALVE (PR.)
- WATERMAIN FITTINGS (EX.)
- WATERMAIN FITTINGS (PR.)
- WATERMAIN BENDS (EX.)
- WATERMAIN BENDS (PR.)
- FIRE HYDRANT (EX.)
- FIRE HYDRANT (PR.)
- SANITARY SEWER (EX.)
- SANITARY SEWER (PR.)
- SANITARY MH (EX.)
- SANITARY MH (PR.)
- SANITARY FORCEMAIN (EX.)
- SANITARY FORCEMAIN (PR.)
- STORM SEWER (EX.)
- STORM SEWER (PR.)
- STORM CATCHBASIN (RND.) (EX.)
- STORM CATCHBASIN (RND.) (PR.)
- DITCH (PR.)
- SWALE (PR.)
- TOP OF SLOPE (PR.)
- BOTTOM OF SLOPE (PR.)
- LIMITS OF ROADWAY DISTURBANCE (PR.)
- ×19.00 SPOT ELEVATION (PR.)

NOT FOR CONSTRUCTION

No.	Description	Date	By
0	ISSUED FOR APPROVAL & TENDER	MAR 17/23	TSL

Revision or Issue

TOWN OF STRATFORD

COMMUNITY CAMPUS

SITE SERVICING

CIVIL

PLAN & PROFILE STREET A

STA 1+580 TO 1+730

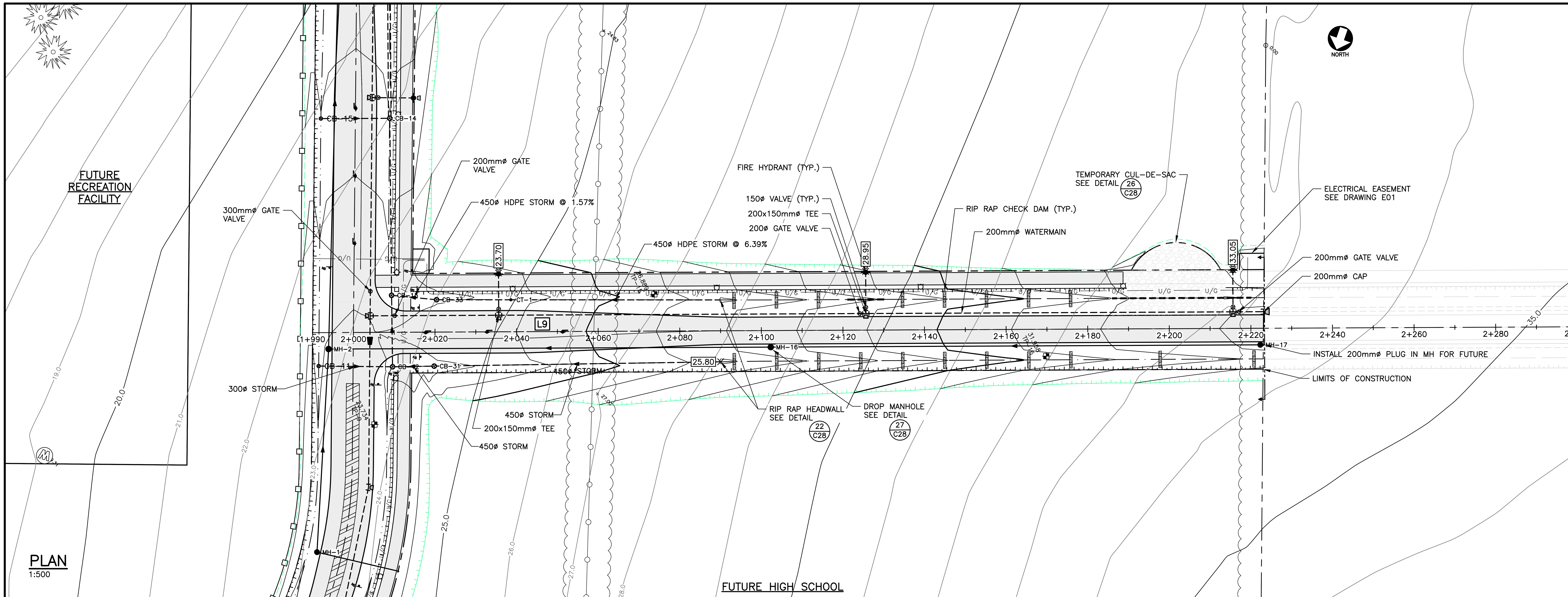
CBCL No	Contract No	Date	Scale
222617.00	222617.00	MAR. 2023	AS NOTED

Designed	Drawn
TSL	DRC
Checked	Approved
PSH	TSL

Sheet No 16 of 29

Drawing No **C16**

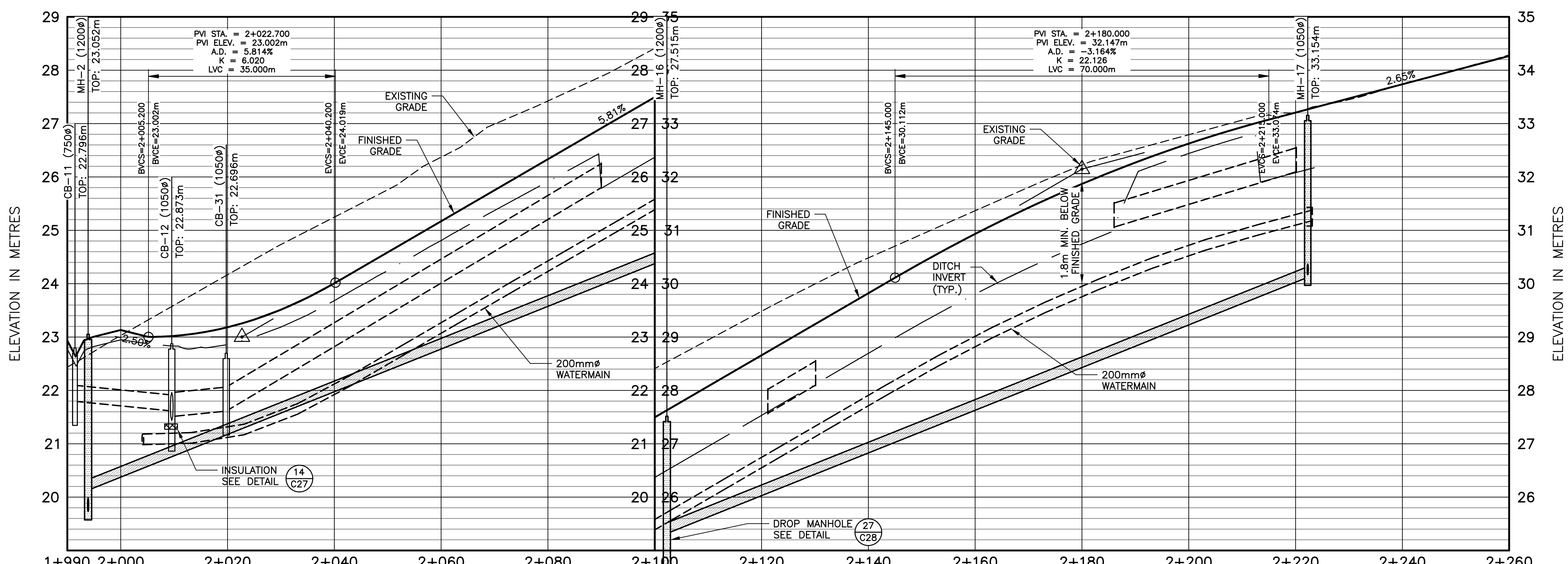
PROFESSIONAL ENGINEER — The Real Estate And Business Brokers Act Of The Province Of Prince Edward Island — Tim LeLacheur 1453 — Mar 17 2023 — PROVINCE OF PRINCE EDWARD ISLAND



PLAN
1:500

NOTES
1. SEE ALL DRAWINGS FOR ADDITIONAL NOTES AND DETAILS.

LEGEND
- SILT FENCE (PR.)
- STRAW BALE CHECK DAM (PR.)
- RIP RAP CHECK DAM (PR.)
- WATERMAIN (EX.)
- WATERMAIN (PR.)
- GATE VALVE (EX.)
- GATE VALVE (PR.)
- AIR RELEASE VALVE (PR.)
- WATERMAIN FITTINGS (EX.)
- WATERMAIN FITTINGS (PR.)
- WATERMAIN BENDS (EX.)
- WATERMAIN BENDS (PR.)
- FIRE HYDRANT (EX.)
- FIRE HYDRANT (PR.)
- SANITARY SEWER (EX.)
- SANITARY SEWER (PR.)
- SANITARY MH (EX.)
- SANITARY MH (PR.)
- SANITARY FORCEMAIN (EX.)
- SANITARY FORCEMAIN (PR.)
- STORM SEWER (EX.)
- STORM SEWER (PR.)
- STORM CATCHBASIN (RND.) (EX.)
- STORM CATCHBASIN (RND.) (PR.)
- DITCH (PR.)
- SWALE (PR.)
- TOP OF SLOPE (PR.)
- BOTTOM OF SLOPE (PR.)
- LIMITS OF ROADWAY DISTURBANCE (PR.)
- ×19.00 SPOT ELEVATION (PR.)



	1+990	2+000	2+020	2+040	2+060	2+080	2+100	2+120	2+140	2+160	2+180	2+200	2+220	2+240	2+260
EXIST. GRADE	22.44	23.03	24.17	25.25	26.37	27.42	28.41	29.48	30.48	31.37	32.22	32.79	33.21	33.74	34.29
FINISHED GRADE		23.132	23.183	24.007	25.170	26.333	27.496	28.658	29.821	30.933	31.870	32.626	33.207	33.737	34.267

SANITARY SEWER (PROP.): 20.13 — 108.38m–200ø SAN. PVC DR35 @ 4.00% — 24.47 | 25.32 — 120.00m–200ø SAN. PVC DR35 @ 4.00% — 30.12

STORM SEWER (PROP.): 21.80 — 21.61 | 21.51 — 21.61 | 21.61 — 70.25m–450ø HDPE STM @ 5.96% — 25.80 — 27.57 | 28.10 — 31.06 — 32.10

18.12m–300ø HDPE STM @ 1.00%

10.20m–450ø HDPE STM @ 1.00%

8.96m–450ø HDPE STM @ 5.91%

34.12m–450ø HDPE STM @ 3.04%

PROFILE
1:500 [H] 1:50 [V]

NOT FOR CONSTRUCTION

No.	Description	Date	By
0	ISSUED FOR APPROVAL & TENDER	MAR 17/23	TSL

Revision or Issue

TOWN OF STRATFORD

COMMUNITY CAMPUS

SITE SERVICING
CIVIL

PLAN & PROFILE STREET B

STA 1+190 TO 2+240

CBCL

CBCL No	Contract No	Date	Scale
222617.00	222617.00	MAR. 2023	AS NOTED

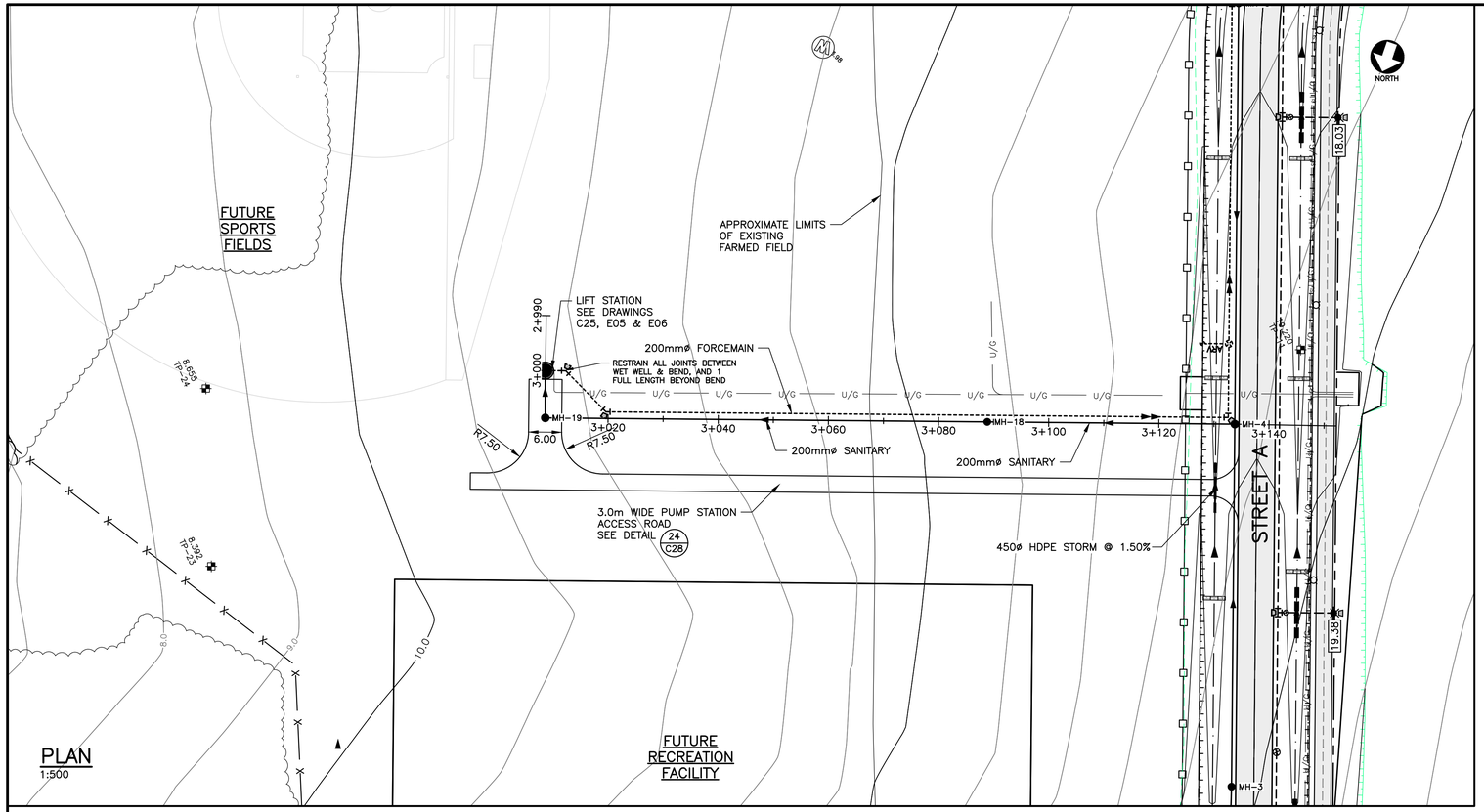
Designed	Drawn	Checked	Approved
TSL	DRC	PSH	TSL

PROFESSIONAL ENGINEER — The Association of Professional Engineers of the Province of Prince Edward Island — Tim LeLacheur 1453 — Mar 17, 2023 — Date — Province of Prince Edward Island

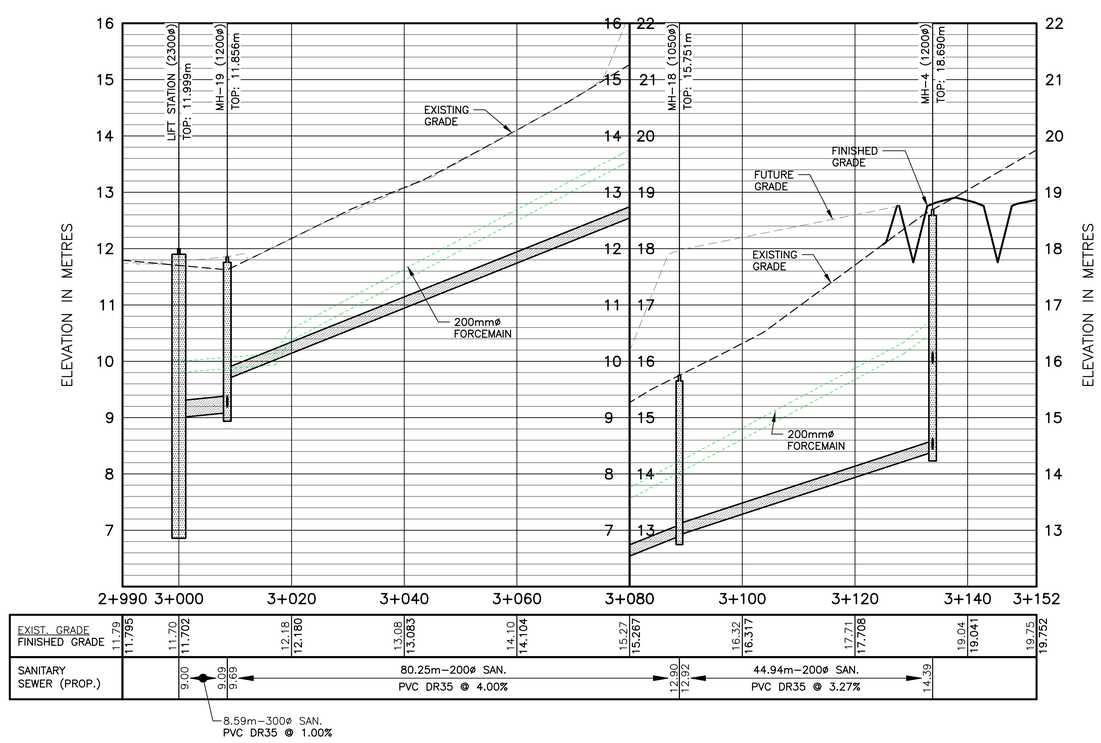
Sheet No 17 of 29

Drawing No **C17**

DRAWING NAME: \\CBCL.LAN\CBCL\CHARLOTTETOWN\DATA\CBCL JOB FOLDERS\2022\222617.00 STRATFORD - COMMUNITY CAMPUS SITE SERVICING\44 CAD\01 CIVIL\03 DRAWING SHEETS\222617_PLAN-PROFILE.DWG LAYOUT NAME: C17 PLAN & PROFILE STREET B PLOT DATE: March 17, 2023 6:02:58 PM CAD OPERATOR: TLELACHEUR



PLAN
1:500



PROFILE
1:500 [H] 1:50 [V]

SANITARY

DESIGNATION	DIAMETER	NORTHING	EASTING	TOP	INV. IN	FROM	INV. OUT	TO
LIFT STATION	2400mm	686161.580	394311.651	11.999	9.000m (300ø)	MH-19		
MH-1	1050mm	686354.388	394119.069	23.358	20.230m (150ø)	SCHOOL	20.180m (200ø)	MH-2
MH-2	1200mm	686306.454	394132.711	23.052	20.131m (200ø) 19.781m (200ø)	MH-16 MH-1	19.731m (200ø)	MH-3
MH-3	1050mm	686192.106	394169.160	19.784	17.331m (200ø)	MH-2	17.281m (200ø)	MH-4
MH-4	1200mm	686129.703	394190.198	18.690	15.964m (200ø) 14.438m (200ø)	MH-3 MH-5	14.388m (200ø)	MH-18
MH-5	1050mm	686057.255	394214.622	17.636	14.870m (200ø)	MH-6	14.820m (200ø)	MH-4
MH-6	1050mm	686014.340	394215.937	17.577	15.146m (200ø)	MH-7	15.085m (200ø)	MH-5
MH-7	1050mm	685926.211	394192.125	20.208	17.204m (200ø)	MH-8	17.154m (200ø)	MH-6
MH-8	1050mm	685887.314	394193.317	21.348	17.449m (200ø)	MH-9	17.399m (200ø)	MH-7
MH-9	1050mm	685818.683	394216.391	21.099	17.861m (200ø)	MH-10	17.811m (200ø)	MH-8
MH-10	1050mm	685788.684	394221.783	21.092	18.063m (200ø)	MH-11	18.013m (200ø)	MH-9
MH-11	1050mm	685758.225	394218.715	21.632	18.787m (200ø)	MH-12	18.737m (200ø)	MH-10
MH-12	1050mm	685709.632	394205.585	22.739	19.944m (200ø)	MH-13	19.894m (200ø)	MH-11
MH-13	1050mm	685679.493	394201.922	23.459	20.662m (200ø)	MH-14	20.612m (200ø)	MH-12
MH-14	1050mm	685649.932	394208.842	24.139	21.380m (200ø)	MH-15	21.330m (200ø)	MH-13
MH-15	1050mm	685600.340	394228.240	24.677			21.806m (200ø)	MH-14
MH-16	1200mm	686270.447	394030.483	27.515	25.319m (200ø)	MH-17	24.466m (200ø)	MH-2
MH-17	1050mm	686230.552	393917.308	33.154	30.169m (200ø)		30.119m (200ø)	MH-16
MH-18	1050mm	686144.059	394232.783	15.751	12.920m (200ø)	MH-4	12.896m (200ø)	MH-19
MH-19	1200mm	686169.697	394308.829	11.856	9.686m (200ø) 9.186m (200ø)	MH-18 MH-100	9.086m (300ø)	LIFT STATION

STORM

DESIGNATION	DIAMETER	NORTHING	EASTING	TOP	INV. IN	FROM	INV. OUT	TO
CB-7	2050mm	686539.771	394186.651	18.063	16.141m (1200ø) 16.892m (450ø) 16.893m (450ø)	CB-8	16.141m (1200ø)	
CB-8	2050mm	686541.355	394171.590	18.058	16.750m (750ø) 16.597m (600ø) 16.750m (600ø)	SCHOOL-2	16.292m (1200ø)	CB-7
CB-9	1050mm	686408.209	394114.715	21.915	20.759m (450ø)	CB-10	20.609m (450ø)	
CB-10	1050mm	686361.723	394104.117	23.131			21.914m (450ø)	CB-9
CB-11	750mm	686311.188	394133.648	22.796			21.796m (300ø)	CB-12
CB-12	1050mm	686305.413	394116.470	22.873	21.615m (300ø) 21.510m (450ø)	CB-11 CB-31	21.435m (525ø)	CB-13
CB-13	1050mm	686288.954	394122.441	22.715	21.260m (525ø) 21.421m (450ø)	CB-12 CB-33	21.260m (525ø)	CB-14
CB-14	1050mm	686248.134	394137.087	21.022	19.661m (525ø) 19.831m (300ø)	CB-13 CB-15	19.623m (600ø)	
CB-15	750mm	686253.738	394153.026	21.055			20.003m (300ø)	CB-14
CB-16	2050mm	686034.016	394205.527	17.273	15.923m (750ø) 15.923m (750ø)		15.623m (1050ø)	CB-17
CB-17	2050mm	686034.237	394220.646	17.310	15.470m (1050ø) 16.223m (450ø) 16.261m (450ø)	CB-16	15.470m (1050ø)	
CB-18	1500mm	685822.151	394218.927	20.968	19.177m (750ø) 19.814m (450ø) 19.814m (450ø)	CB-19	19.177m (750ø)	
CB-19	1500mm	685817.447	394204.672	20.902	19.327m (600ø) 19.777m (450ø)	CB-20	19.327m (750ø)	CB-18
CB-20	1200mm	685801.564	394208.924	20.635	19.406m (600ø)	CB-21	19.409m (600ø)	CB-19
CB-21	1200mm	685766.869	394208.440	21.143	19.726m (450ø)	CB-22	19.579m (600ø)	CB-20
CB-22	1050mm	685736.951	394200.489	21.837	20.331m (450ø)	CB-23	20.331m (450ø)	CB-21
CB-23	1050mm	685708.882	394193.029	22.467	20.899m (450ø)	CB-24	20.899m (450ø)	CB-22
CB-24	1050mm	685662.773	394192.544	23.417	22.051m (300ø)	CB-25	21.914m (450ø)	CB-23
CB-25	750mm	685645.561	394197.666	23.779	22.309m (300ø)	CB-26	22.299m (300ø)	CB-24
CB-26	750mm	685622.986	394206.496	24.254			22.794m (300ø)	CB-25
CB-27	750mm	685579.758	394223.406	24.085			23.118m (300ø)	CB-28
CB-28	1050mm	685547.714	394235.941	23.833	22.701m (300ø) 22.776m (300ø)	CB-29 CB-27	22.633m (600ø)	
CB-29	750mm	685539.171	394239.282	23.894	22.881m (300ø)	CB-30	22.806m (300ø)	CB-28
CB-30	750mm	685500.502	394254.408	24.366			23.359m (300ø)	CB-29
CB-31	1050mm	686301.917	394106.888	22.696	21.612m (450ø)		21.612m (450ø)	CB-12
CB-32	1500mm	686619.754	394157.518	20.717	19.642m (600ø) 19.642m (600ø)	SCHOOL-1	19.642m (750ø)	
CB-33	1050mm	686286.358	394111.668	22.800	21.595m (450ø)	CT-1	21.595m (450ø)	CB-13
CT-1	450mm	686280.393	394094.460	23.518	22.758m (450ø)		22.758m (450ø)	CB-33

NOTES

1. SEE ALL DRAWINGS FOR ADDITIONAL NOTES AND DETAILS.

LEGEND

- SILT FENCE (PR.)
- STRAW BALE CHECK DAM (PR.)
- RIP RAP CHECK DAM (PR.)
- WATERMAIN (EX.)
- WATERMAIN (PR.)
- GATE VALVE (EX.)
- GATE VALVE (PR.)
- AIR RELEASE VALVE (PR.)
- WATERMAIN FITTINGS (EX.)
- WATERMAIN FITTINGS (PR.)
- WATERMAIN BENDS (EX.)
- WATERMAIN BENDS (PR.)
- FIRE HYDRANT (EX.)
- FIRE HYDRANT (PR.)
- SANITARY SEWER (EX.)
- SANITARY SEWER (PR.)
- SANITARY MH (EX.)
- SANITARY MH (PR.)
- SANITARY FORCEMAIN (EX.)
- SANITARY FORCEMAIN (PR.)
- STORM SEWER (EX.)
- STORM SEWER (PR.)
- STORM CATCHBASIN (RND.) (EX.)
- STORM CATCHBASIN (RND.) (PR.)
- DITCH (PR.)
- SWALE (PR.)
- TOP OF SLOPE (PR.)
- BOTTOM OF SLOPE (PR.)
- LIMITS OF ROADWAY DISTURBANCE (PR.)
- ×19.00 SPOT ELEVATION (PR.)

NOT FOR CONSTRUCTION

No.	Description	Date	By
0	ISSUED FOR APPROVAL & TENDER	MAR 17/23	TSL

Revision or Issue

TOWN OF STRATFORD

COMMUNITY CAMPUS

SITE SERVICING

CIVIL

PLAN & PROFILE LIFT STATION SEWER

STA 3+000 TO 3+240

CBCL

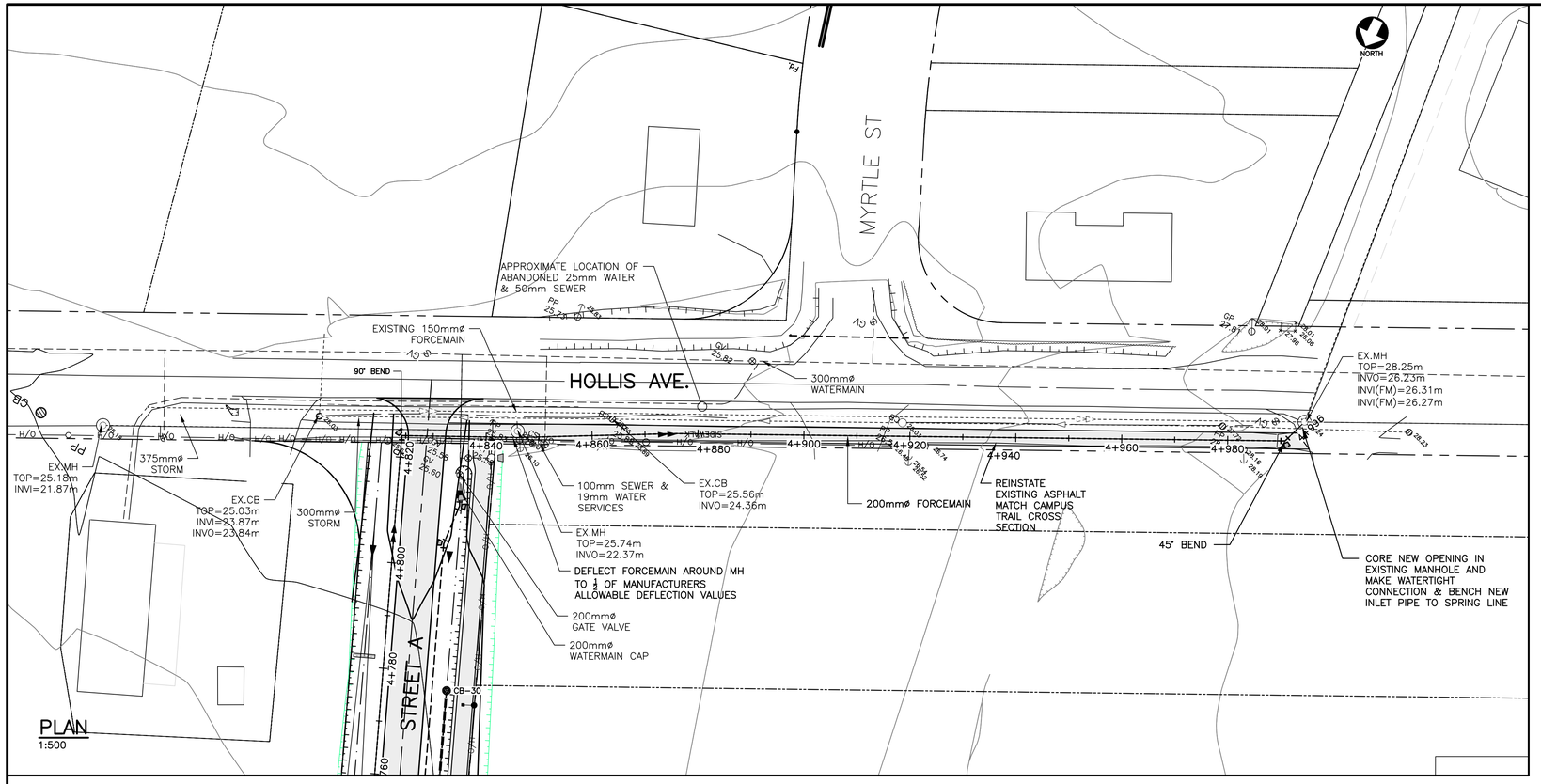
CBCL No	Contract No	Date	Scale
222617.00	222617.00	MAR. 2023	AS NOTED

Designed	Drawn
TSL	DRC
Checked	Approved
PSH	TSL

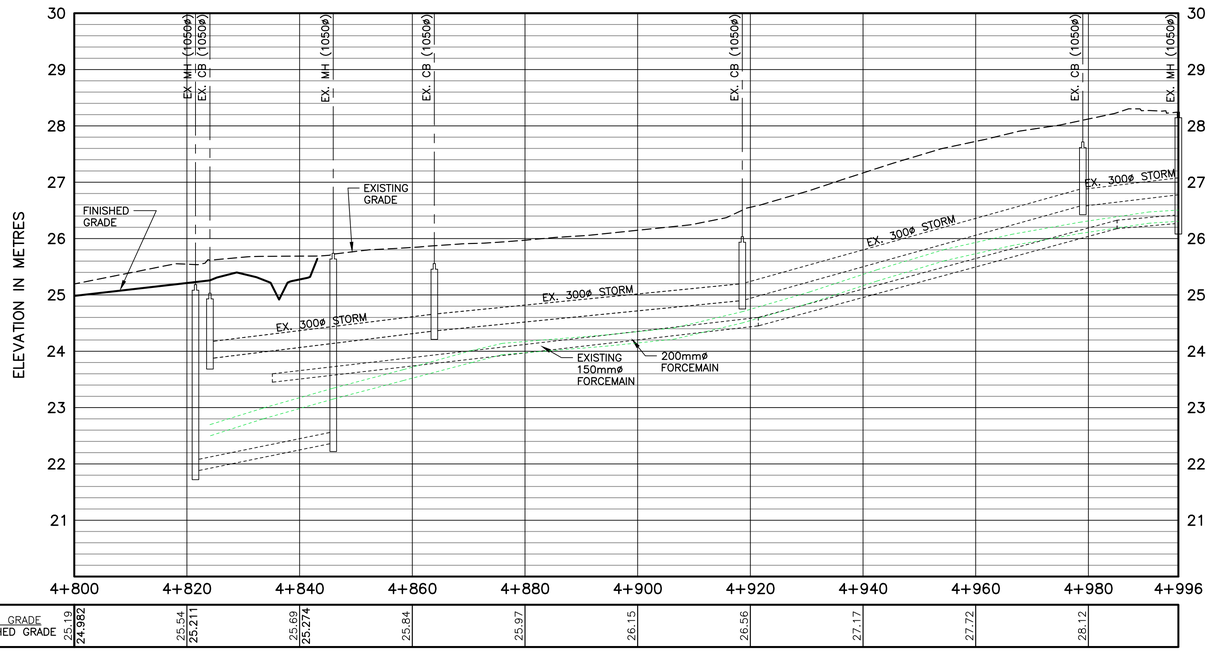
Sheet No 18 of 29

Drawing No **C18**

PROFESSIONAL ENGINEER — The Association Of Professional Engineers Of The Province Of Prince Edward Island — Tim LeLacheur 1453 — Mar 17 2023 — Date — PROVINCE OF PRINCE EDWARD ISLAND



PLAN
1:500



EXIST. GRADE	25.19	25.54	25.69	25.84	25.97	26.15	26.56	27.17	27.72	28.12
FINISHED GRADE	24.982	25.211	25.274							

PROFILE
1:500 [H] 1:50 [V]

NOTES
1. SEE ALL DRAWINGS FOR ADDITIONAL NOTES AND DETAILS.

LEGEND
- SILT FENCE (PR.)
- STRAW BALE CHECK DAM (PR.)
- RIP RAP CHECK DAM (PR.)
- WATERMAIN (EX.)
- WATERMAIN (PR.)
- GATE VALVE (EX.)
- GATE VALVE (PR.)
- AIR RELEASE VALVE (PR.)
- WATERMAIN FITTINGS (EX.)
- WATERMAIN FITTINGS (PR.)
- WATERMAIN BENDS (EX.)
- WATERMAIN BENDS (PR.)
- FIRE HYDRANT (EX.)
- FIRE HYDRANT (PR.)
- SANITARY SEWER (EX.)
- SANITARY SEWER (PR.)
- SANITARY MH (EX.)
- SANITARY MH (PR.)
- SANITARY FORCEMAIN (EX.)
- SANITARY FORCEMAIN (PR.)
- STORM SEWER (EX.)
- STORM SEWER (PR.)
- STORM CATCHBASIN (RND.) (EX.)
- STORM CATCHBASIN (RND.) (PR.)
- DITCH (PR.)
- SWALE (PR.)
- TOP OF SLOPE (PR.)
- BOTTOM OF SLOPE (PR.)
- LIMITS OF ROADWAY DISTURBANCE (PR.)
- ×19.00 SPOT ELEVATION (PR.)

NOT FOR CONSTRUCTION

No.	Description	Date	By
0	ISSUED FOR APPROVAL & TENDER	MAR 17/23	TSL

Revision or Issue

TOWN OF STRATFORD

COMMUNITY CAMPUS

SITE SERVICING

CIVIL

PLAN & PROFILE HOLLIS AVE

STA 4+800 TO 4+996

CBCL

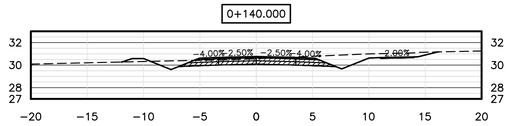
CBCL No	Contract No	Date	Scale
222617.00	222617.00	MAR. 2023	AS NOTED

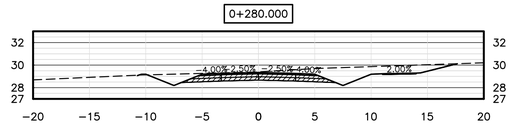
Designed	Drawn
TSL	DRC
Checked	Approved
PSH	TSL

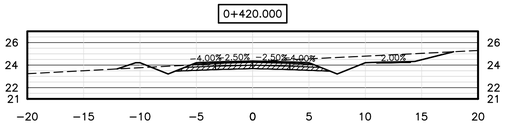
Sheet No 19 of 29

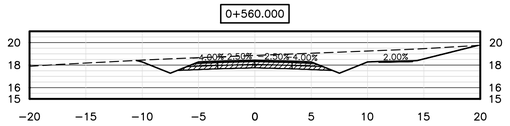
Drawing No **C19**

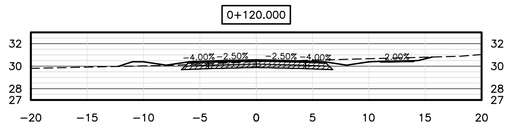
PROFESSIONAL ENGINEER — The Association Of Professional Engineers Of The Province Of Prince Edward Island — Tim LeLacheur 1453 — Mar 17 2023 Date — Province of Prince Edward Island

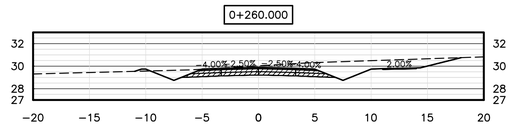


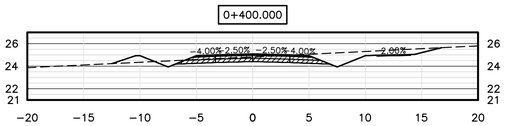


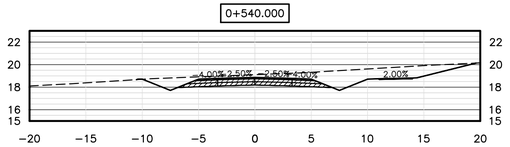


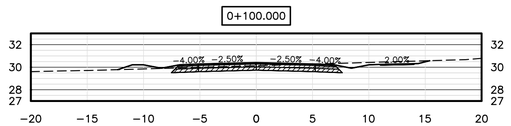


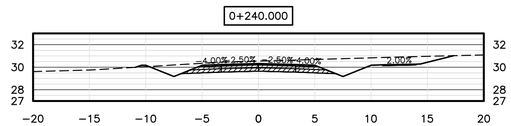


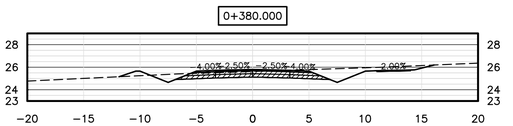


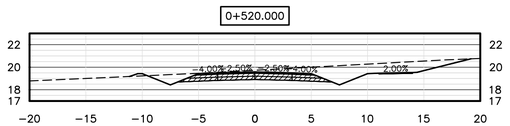


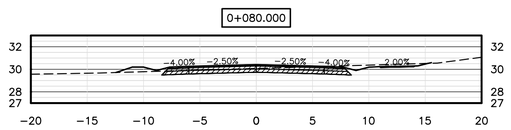


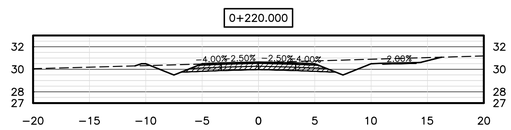


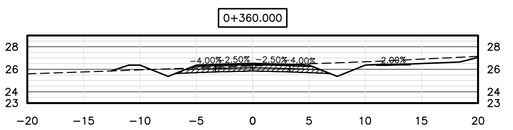


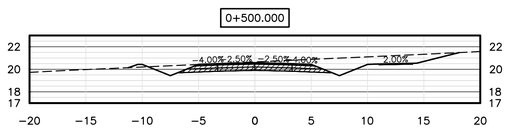


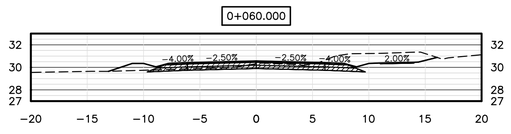


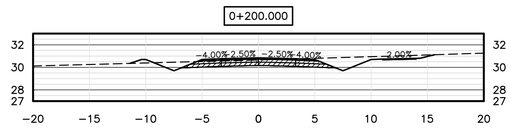


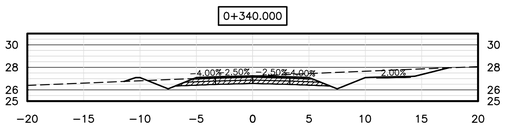


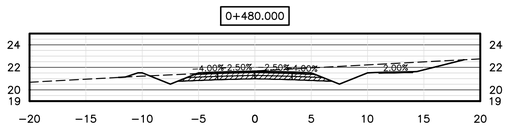


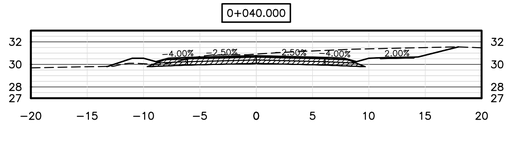


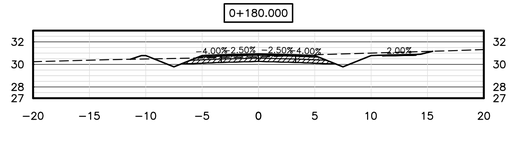


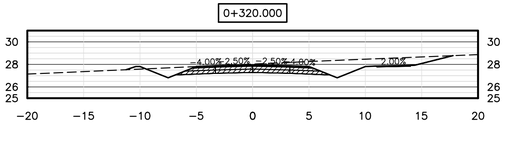


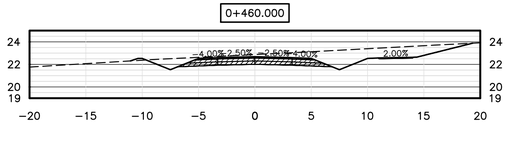


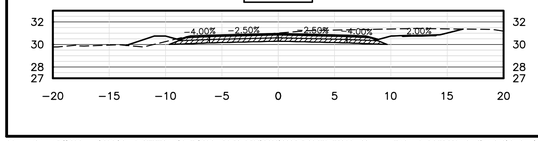


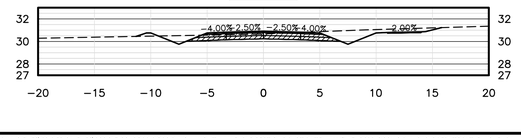


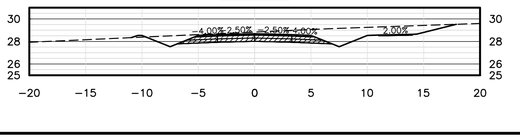


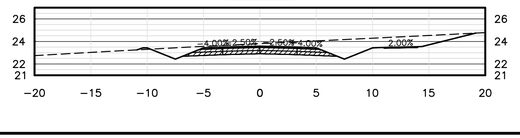












NOTES
1. SEE ALL DRAWINGS FOR ADDITIONAL NOTES AND DETAILS.

NOT FOR CONSTRUCTION

No.	Description	Date	By
0	ISSUED FOR APPROVAL & TENDER	MAR 17/23	TSL

Revision or Issue

TOWN OF STRATFORD

COMMUNITY CAMPUS

SITE SERVICING
CIVIL

SECTIONS

STA 0+020 TO 0+560

CBCL

CBCL No	Contract No	Date	Scale
222617.00	222617.00	MAR. 2023	1:250

Designed	Drawn
TSL	SEM
Checked	Approved
PSH	TSL

Sheet No 20 of 29

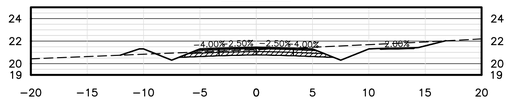
Drawing No C20

PROFESSIONAL ENGINEER
THE ASSOCIATION OF PROFESSIONAL ENGINEERS OF THE PROVINCE OF PRINCE EDWARD ISLAND
Tim LeLacheur
1453
Mar 17 2023
DATE
PROVINCE OF PRINCE EDWARD ISLAND

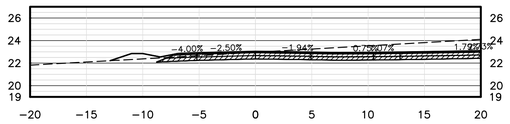
DRAWING NAME: \\CBCL.LAN\CBCL\CHARLOTTETOWN\DATA\CBCL JOB FOLDERS\2022\222617.00 STRATFORD - COMMUNITY CAMPUS SITE SERVICING\44 CAD\01 CIVIL\02 WORKING FILES\02 DESIGN FILES\222617.00_CORRIDORS.DWG LAYOUT NAME: C13 SECTIONS PLOT DATE: March 17, 2023 6:09:48 PM CAD OPERATOR: TLELACHEUR

CBCL-610x914 TITLE SHEET (ARCH D)

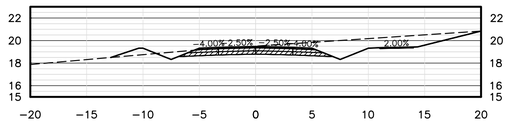
0+700.000



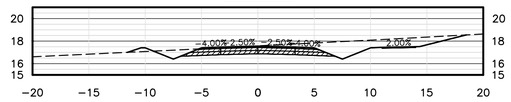
0+840.000



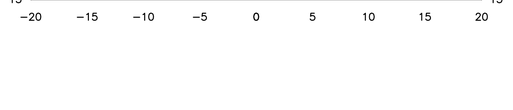
0+980.000



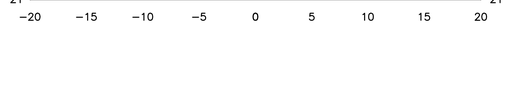
1+120.000



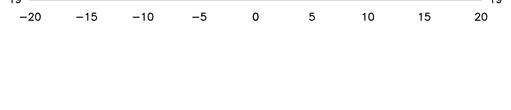
0+680.000



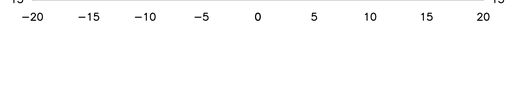
0+820.000



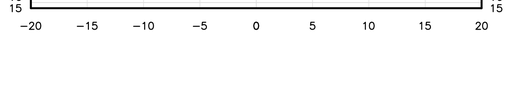
0+960.000



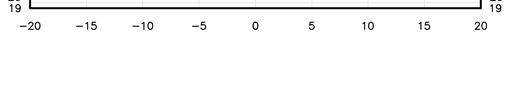
1+100.000



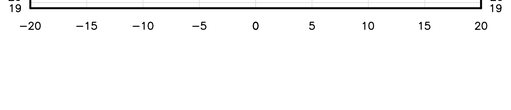
0+660.000



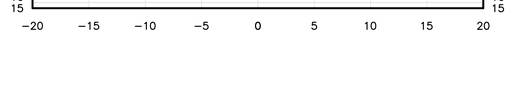
0+800.000



0+940.000



1+080.000



0+640.000

0+780.000

0+920.000

1+060.000

0+620.000

0+760.000

0+900.000

1+040.000

0+600.000

0+740.000

0+880.000

1+020.000

0+580.000

0+720.000

0+860.000

1+000.000

NOTES
1. SEE ALL DRAWINGS FOR ADDITIONAL NOTES AND DETAILS.

NOT FOR CONSTRUCTION

No.	Description	Date	By
0	ISSUED FOR APPROVAL & TENDER	MAR 17/23	TSL

Revision or Issue

Town of Stratford
PRINCE EDWARD ISLAND

TOWN OF STRATFORD

COMMUNITY CAMPUS

SITE SERVICING
CIVIL

SECTIONS

STA 0+580 TO 1+120

CBCL

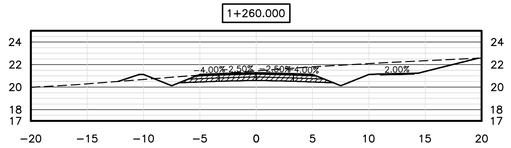
CBCL No	Contract No	Date	Scale
222617.00	222617.00	MAR. 2023	1:250

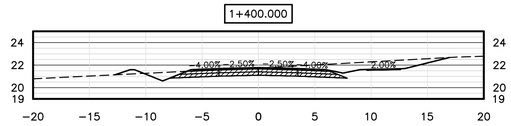
Designed	Drawn
TSL	SEM
Checked	Approved
PSH	TSL

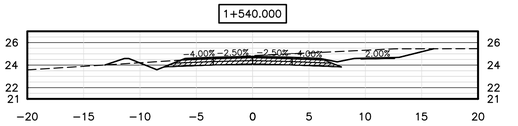
Sheet No 21 of 29

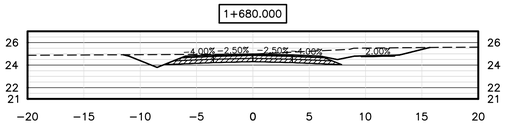
Drawing No **C21**

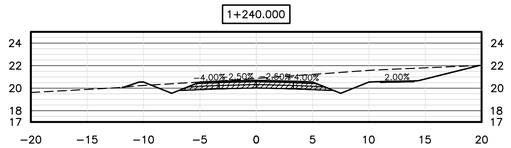
PROFESSIONAL ENGINEER
THE ASSOCIATION OF PROFESSIONAL ENGINEERS OF THE PROVINCE OF PRINCE EDWARD ISLAND
Tim LeLacheur
1453
Mar 17 2023
DATE
PROVINCE OF PRINCE EDWARD ISLAND

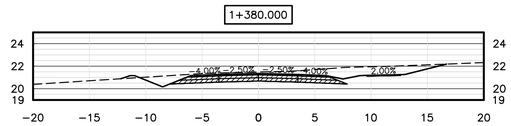


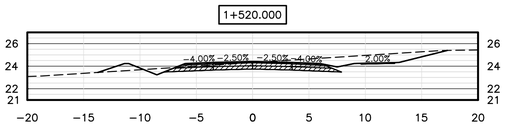


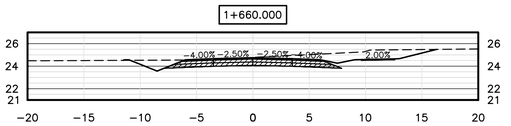


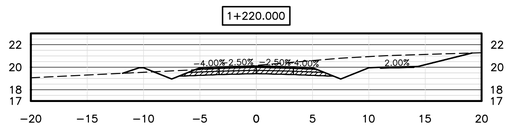


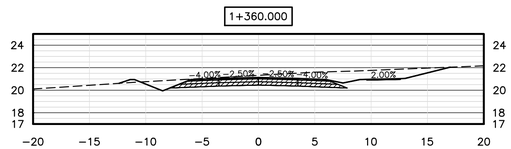


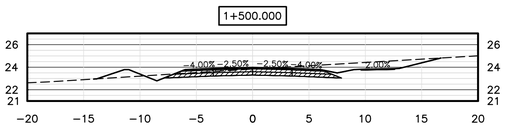


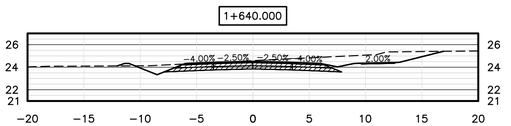


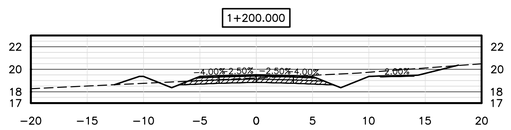


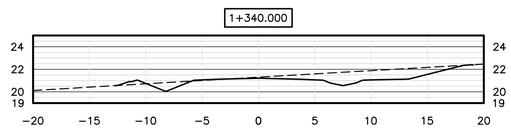


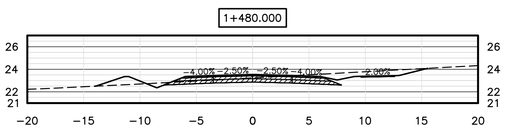


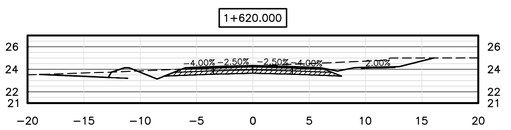


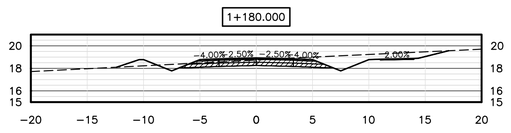


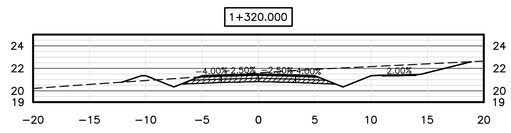


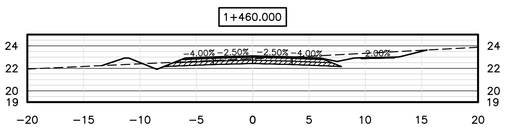


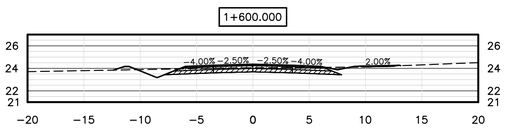


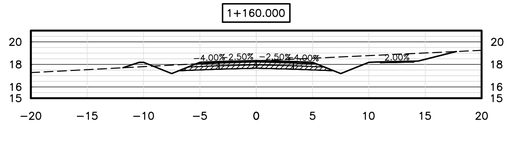


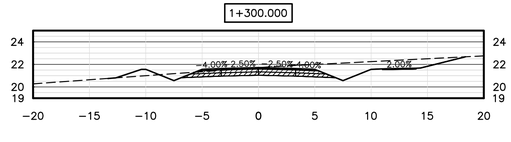


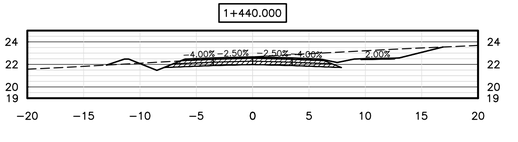


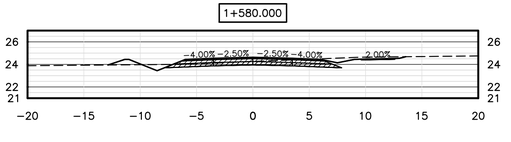


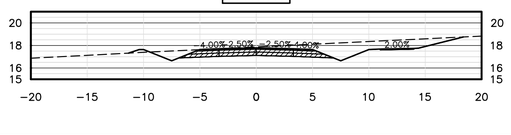


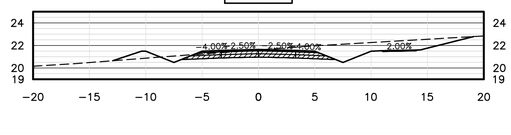


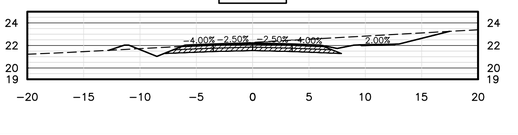


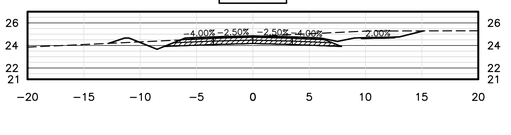












NOTES
1. SEE ALL DRAWINGS FOR ADDITIONAL NOTES AND DETAILS.

NOT FOR CONSTRUCTION

No.	Description	Date	By
0	ISSUED FOR APPROVAL & TENDER	MAR 17/23	TSL

Revision or Issue

TOWN OF STRATFORD

COMMUNITY CAMPUS

SITE SERVICING

CIVIL

SECTIONS

STA 1+140 TO 1+680

CBCL

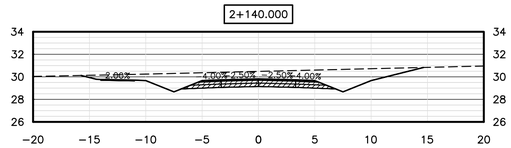
CBCL No	Contract No	Date	Scale
222617.00	222617.00	MAR. 2023	1:250

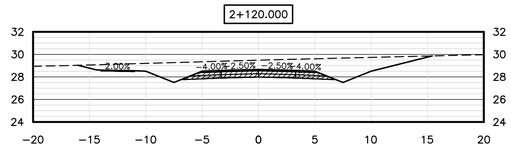
Designed	Drawn
TSL	SEM
Checked	Approved
PSH	TSL

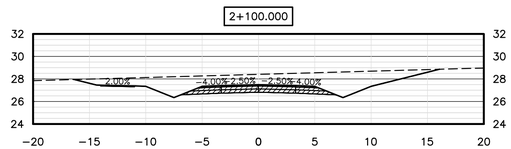
Sheet No 22 of 29

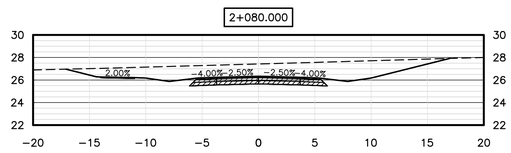
Drawing No C22

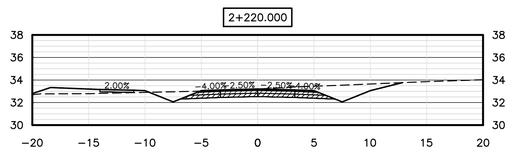
PROFESSIONAL ENGINEER
THE ASSOCIATION OF PROFESSIONAL ENGINEERS OF THE PROVINCE OF PRINCE EDWARD ISLAND
Tim LeLacheur
1453
Mar 17 2023
DATE
PROVINCE OF PRINCE EDWARD ISLAND

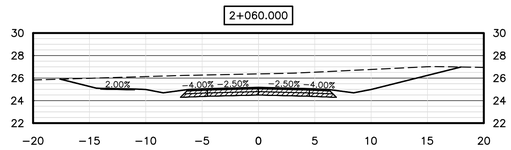


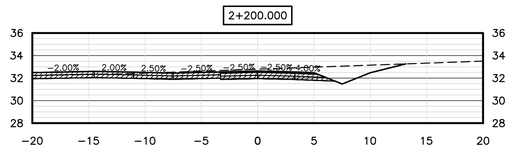


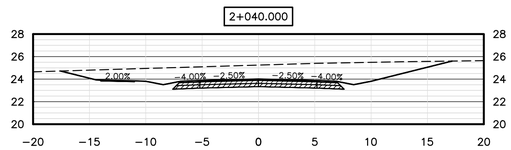


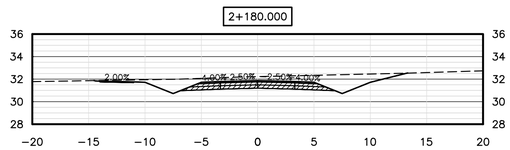


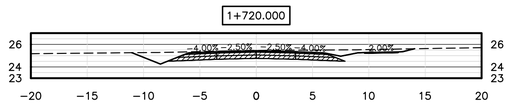


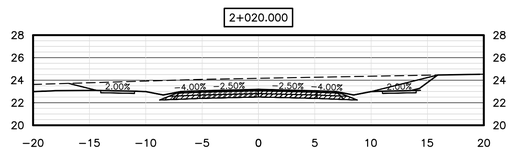


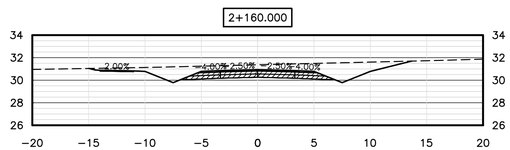


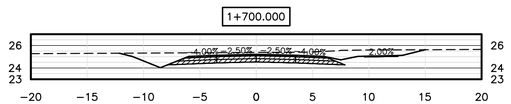












NOTES
1. SEE ALL DRAWINGS FOR ADDITIONAL NOTES AND DETAILS.

NOT FOR CONSTRUCTION

No.	Description	Date	By
0	ISSUED FOR APPROVAL & TENDER	MAR 17/23	TSL

Revision or Issue

TOWN OF STRATFORD

COMMUNITY CAMPUS

SITE SERVICING
CIVIL

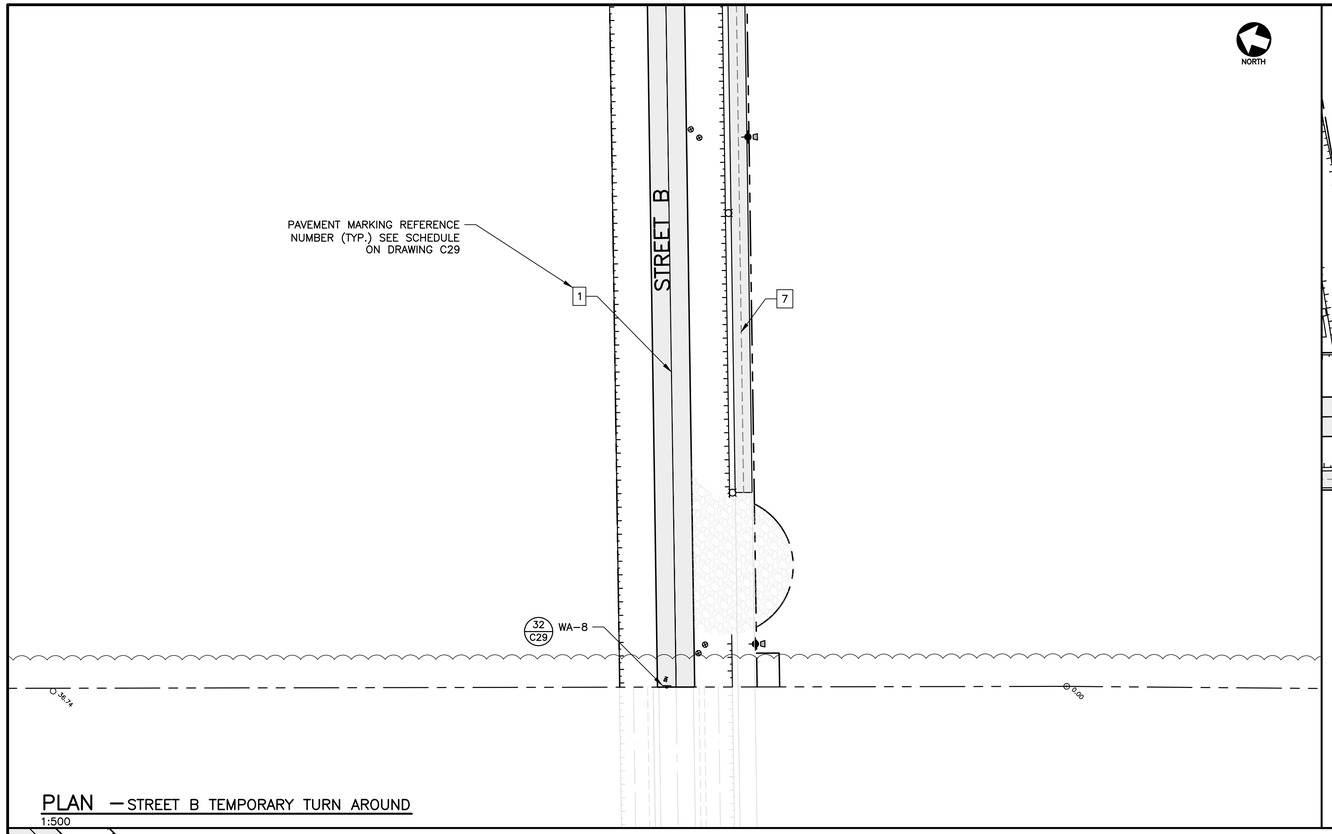
SECTIONS

STA 1+700 TO 1+720 & 2+020 TO 2+240

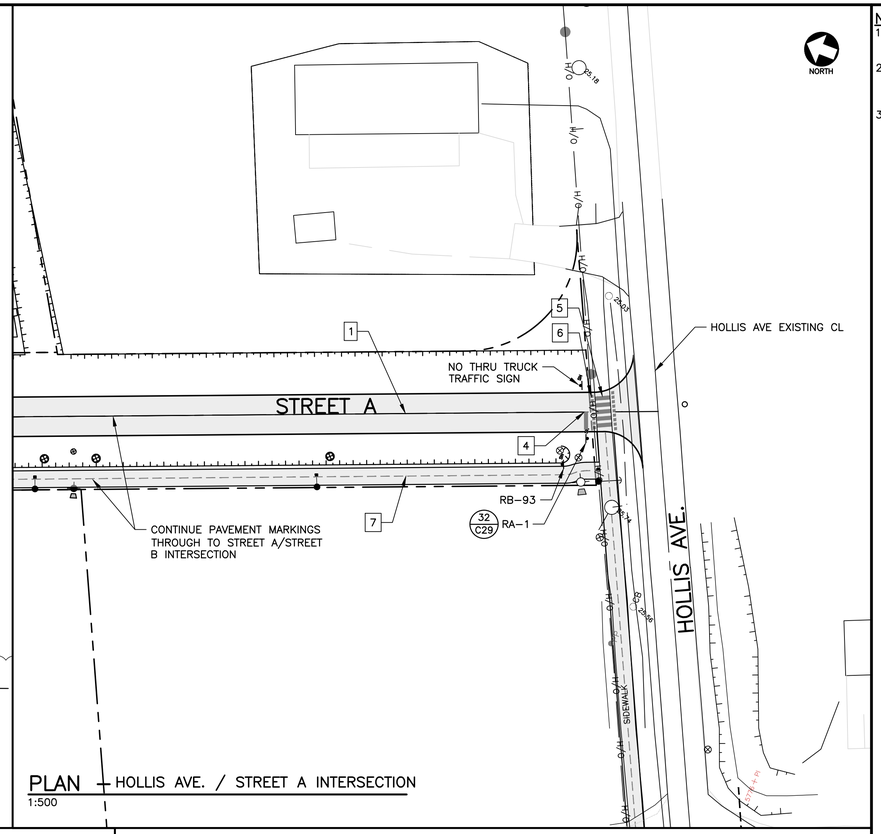
CBCL

CBCL No	Contract No	Date	Scale
222617.00	222617.00	MAR. 2023	1:250
		Designed: TSL	Drawn: SEM
		Checked: PSH	Approved: TSL
		Sheet No: 23 of 29	
		Drawing No: C23	

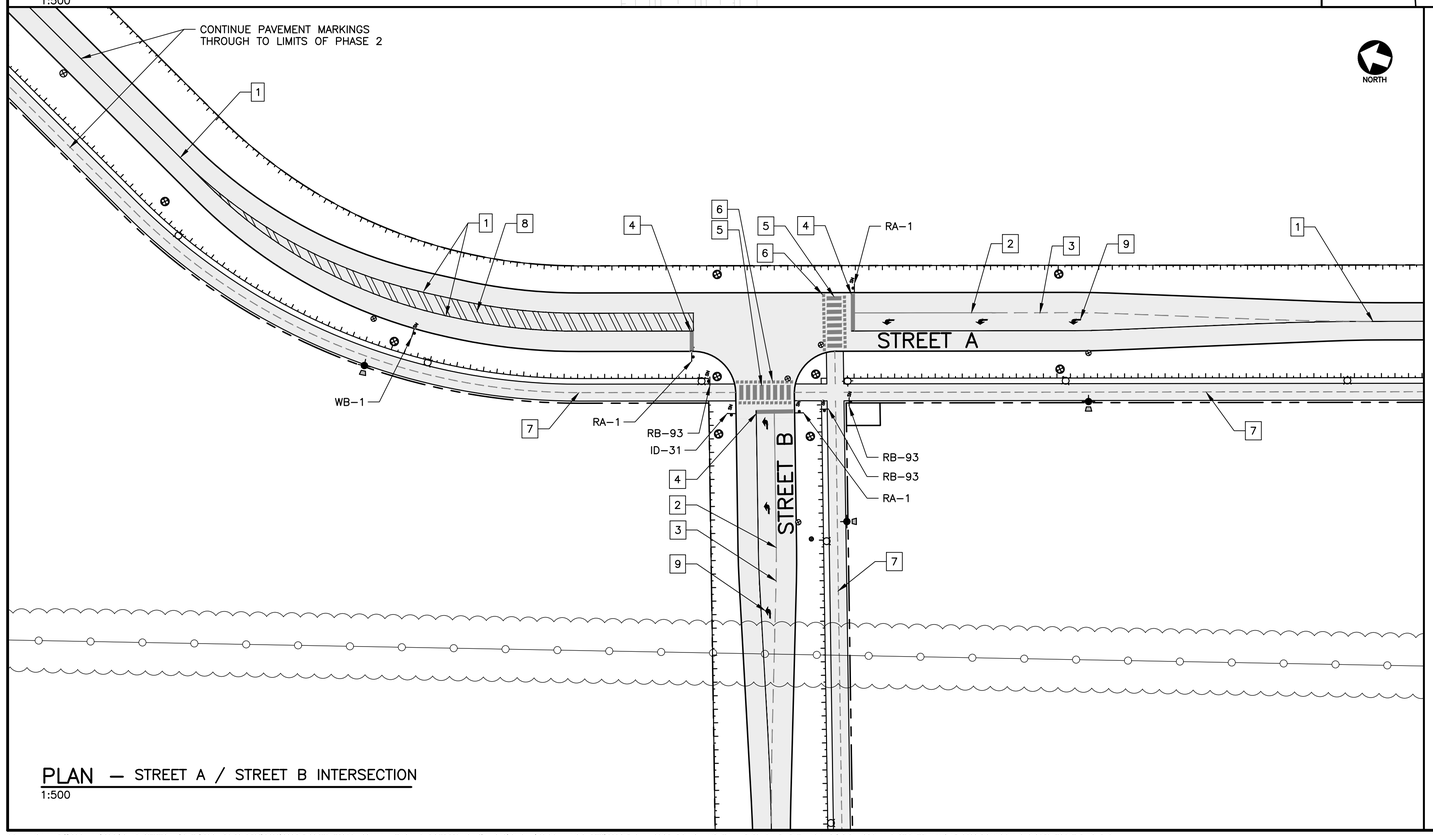
PROFESSIONAL ENGINEER
THE ASSOCIATION OF PROFESSIONAL ENGINEERS OF THE PROVINCE OF PRINCE EDWARD ISLAND
Tim LeLacheur
1453
Mar 17 2023
DATE
PROVINCE OF PRINCE EDWARD ISLAND



PLAN – STREET B TEMPORARY TURN AROUND
1:500



PLAN – HOLLIS AVE. / STREET A INTERSECTION
1:500



PLAN – STREET A / STREET B INTERSECTION
1:500

NOTES
1. SEE ALL DRAWINGS FOR ADDITIONAL NOTES AND DETAILS.
2. REFER TO DRAWING C29 FOR PAVEMENT MARKING AND TRAFFIC SIGN SCHEDULES.
3. REFER TO DRAWING C29 FOR PAVEMENT MARKING AND SIGNAGE DETAILS.

LEGEND
- ROAD CL PAVEMENT MARKING (PR.)
- TRAIL CL PAVEMENT MARKING (PR.)
- # PAVEMENT MARKING IDENTIFICATION
- SN TRAFFIC SIGN (PR.)

NOT FOR CONSTRUCTION

No.	Description	Date	By
0	ISSUED FOR APPROVAL & TENDER	MAR 17/23	TSL

Revision or Issue

TOWN OF STRATFORD

COMMUNITY CAMPUS

SITE SERVICING

CIVIL

PAVEMENT MARKING & SIGNAGE PLAN

CBCL

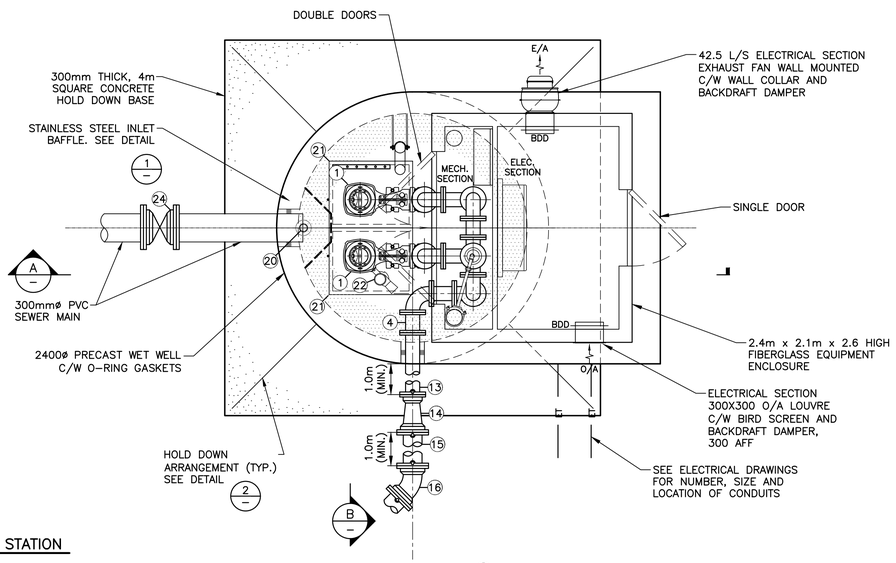
CBCL No	Contract No	Date	Scale
222617.00	222617.00	MAR. 2023	AS NOTED

Designed	Drawn
TSL	TSL
Checked	Approved
MRM	TSL

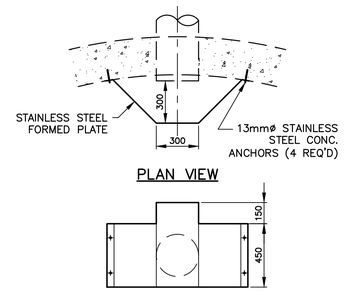
Sheet No 24 of 29

Drawing No C24

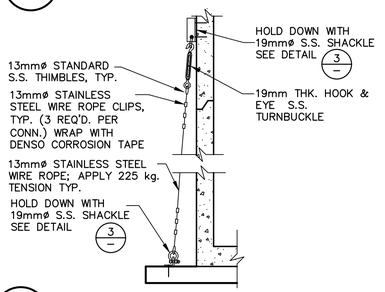
PROFESSIONAL ENGINEER – The Association Of Professional Engineers Of Prince Edward Island – Province Of Prince Edward Island – Tim LeLacheur 1453 – Mar 17 2023 – Date – PROVINCE OF PRINCE EDWARD ISLAND



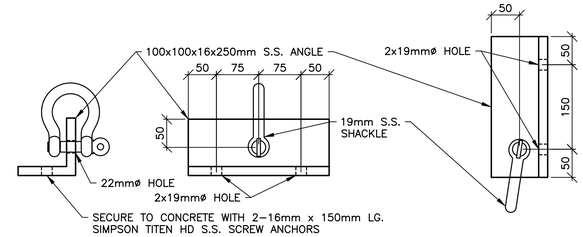
PLAN– LIFT STATION
1:30



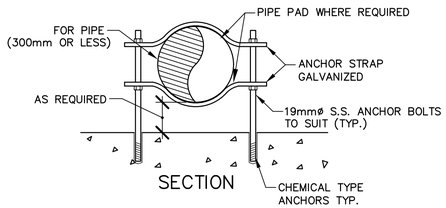
1 DETAIL – INLET BAFFLE
N.T.S.



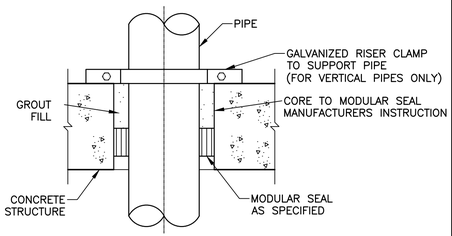
2 DETAIL – HOLD DOWN ARRANGEMENT
N.T.S.



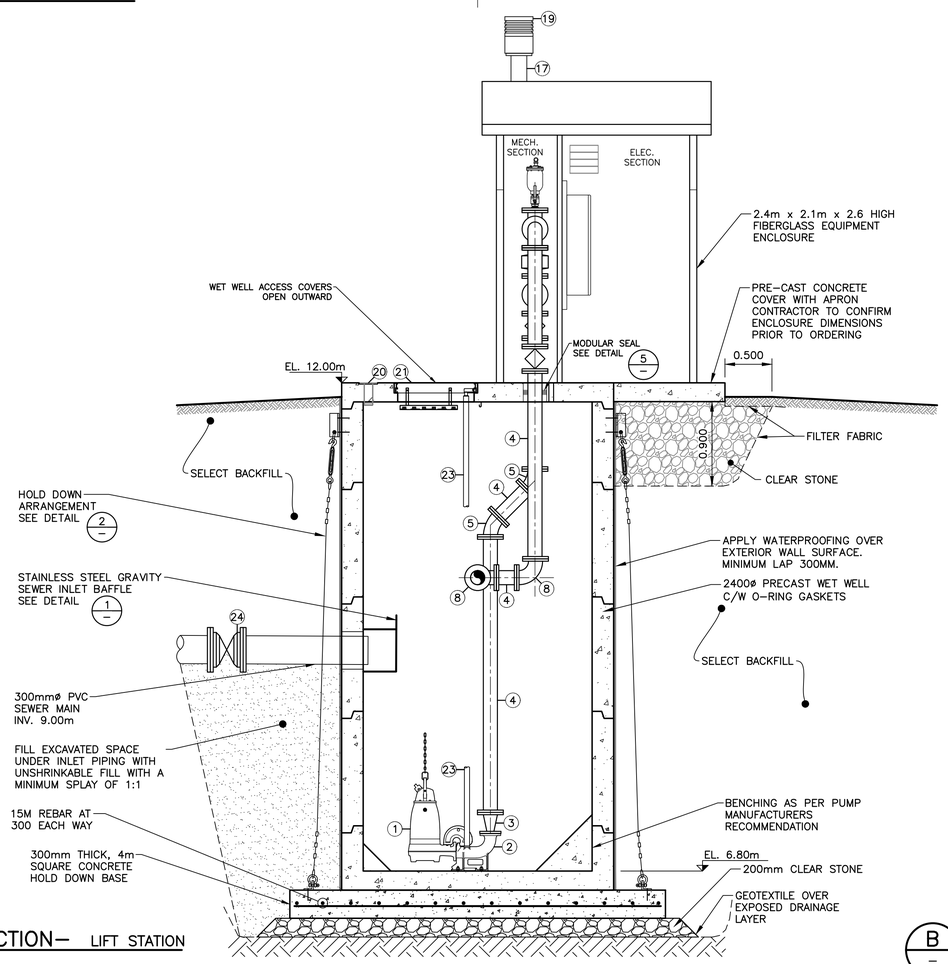
3 DETAIL – HOLD DOWN
N.T.S.



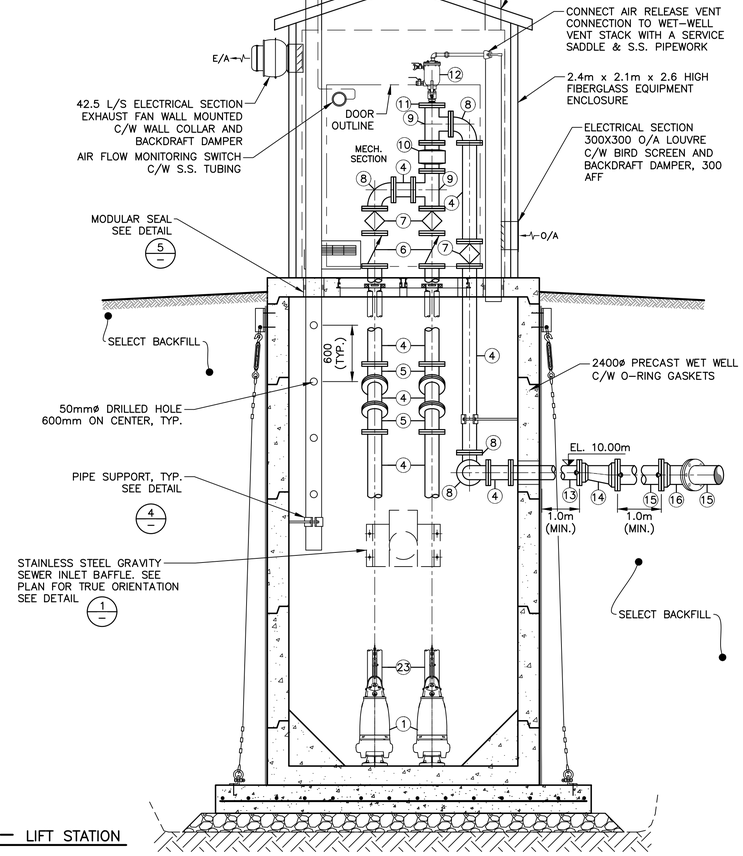
4 DETAIL – VERTICAL PIPE SUPPORT
N.T.S.



5 DETAIL – MODULAR SEAL THROUGH CONCRETE
N.T.S.



A SECTION– LIFT STATION
1:30



B SECTION– LIFT STATION
1:30

LIST OF FITTINGS		
No.	QTY.	DESCRIPTION
1	2	FLYGT MODEL NP-3153 SH276 SUBMERSIBLE PUMP. 17.2KW/23HP 600 VOLT, 3 PHASE. 26.2 L/S @ 24.1m T.D.H.
2	2	FLYGT DISCHARGE CONNECTION
3	2	150x75ø DUCTILE IRON REDUCER (FLG.)
4	11	150ø DUCTILE IRON MAKE UP PIECE (FLG.)
5	4	150ø DUCTILE IRON 45° BEND (FLG.)
6	2	150ø CHECK VALVE (FLG.)
7	3	150ø PLUG VALVE (FLG)
8	4	150ø DUCTILE IRON 90° BEND (FLG.)
9	2	150ø DUCTILE IRON TEE (FLG.)
10	1	150ø MAGNETIC FLOWMETER
11	1	DUCTILE IRON BLIND FLANGE C/W 50mm TAPPING
12	1	50ø SHORT BODY SEWAGE AIR RELEASE VALVE
13	1	150ø DUCTILE IRON MAKE UP PIECE (FLG. x P.E.)
14	1	200X150ø DUCTILE IRON ECCENTRIC REDUCER (RESTRAINED MJ)
15	1	200ø PVC FORCEMAIN – SEE DRAWING C18
16	1	200ø DUCTILE IRON 45° BEND (RESTRAINED MJ)
17	2	150ø XFR DWV PVC PIPE (P.E.)
18	1	150ø PUL-AIR STATIONARY VENTILATOR
19	1	150ø DEXON SMDV2 PIPE MOUNTED VENTILATION FAN
20	1	DAVIT SOCKET SEE NOTE 2.
21	2	FLYGT SAFE-HATCH ACCESS COVER MODEL 13-430081
22	1	FLYGT MIX/FLUSH VALVE MODEL: 4901
23	2 SETS	50mm GALVANIZED GUIDE BARS C/W UPPER SUPPORTS
24	1	300ø GATE VALVE (MJ) C/W VALVE BOX & RISER

NOTE:
SEE ALL DRAWINGS FOR ADDITIONAL FITTINGS

NOTES

1. SEE ALL DRAWINGS FOR ADDITIONAL NOTES AND DETAILS.
2. COORDINATE SLEEVE & RECESS FOR DAVIT SOCKET WITH WET WELL COVER SUPPLY.

NOT FOR CONSTRUCTION

No.	Description	Date	By
0	ISSUED FOR APPROVAL & TENDER	MAR 17/23	TSL

Revision or Issue

TOWN OF STRATFORD

COMMUNITY CAMPUS

SITE SERVICING
CIVIL

LIFT STATION

PLAN & SECTIONS

CBCL

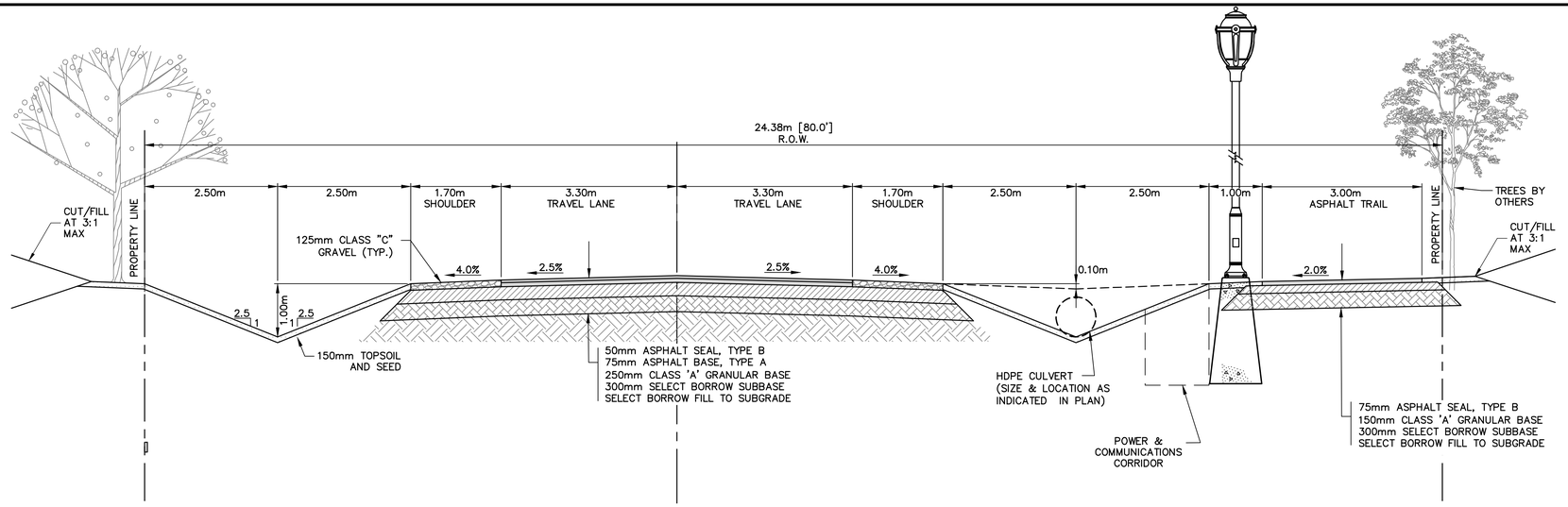
CBCL No	Contract No	Date	Scale
222617.00	222617.00	MAR. 2023	AS NOTED

Designed	Drawn
TSL	TSL
Checked	Approved
DA	TSL

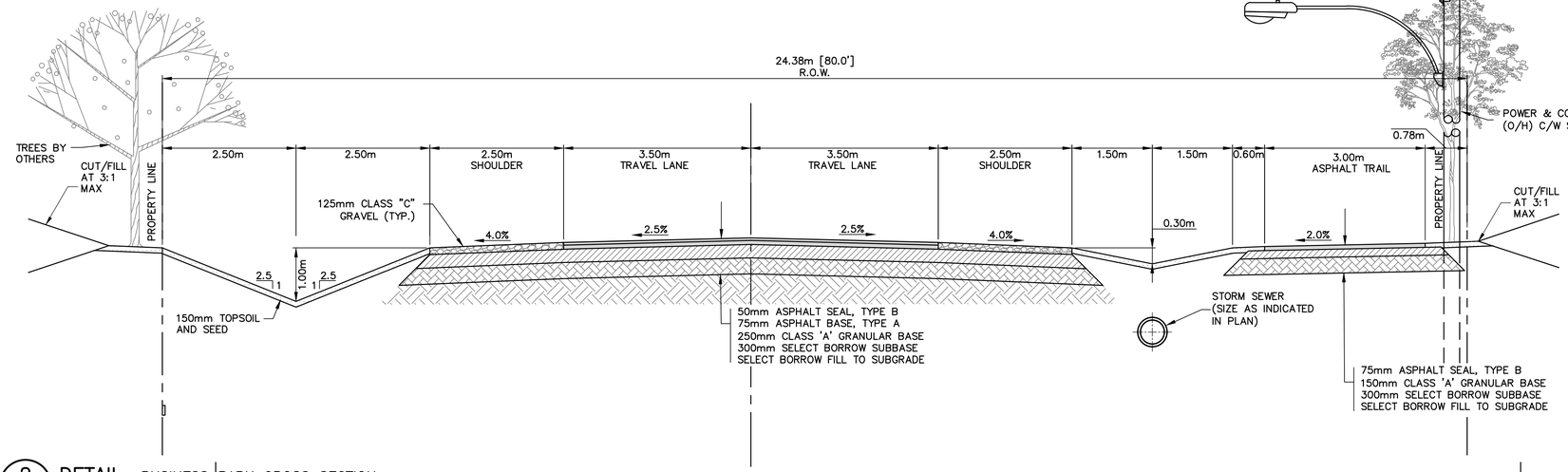
Sheet No 25 of 29

Drawing No **C25**

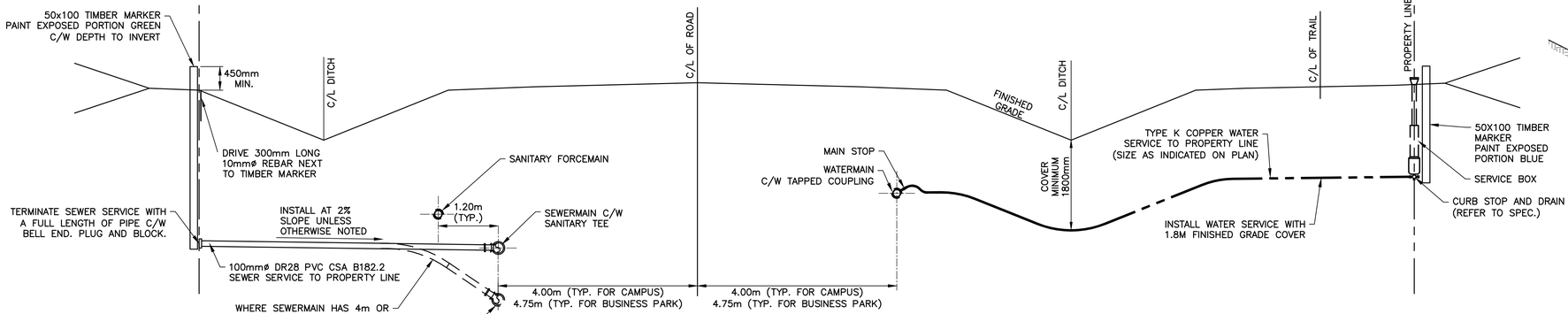
PROFESSIONAL ENGINEER – The Association Of Professional Engineers Of The Province Of Prince Edward Island – Tim LeLacheur 1453 – Mar 17 2023 – Date – PROVINCE OF PRINCE EDWARD ISLAND



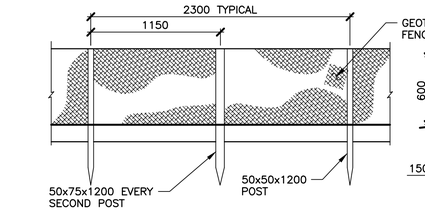
1 DETAIL— CAMPUS CROSS SECTION (TYPICAL)
1:50



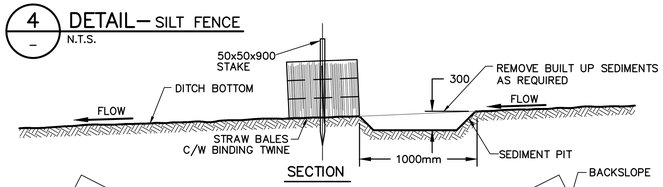
2 DETAIL— BUSINESS PARK CROSS SECTION (TYPICAL)
1:50



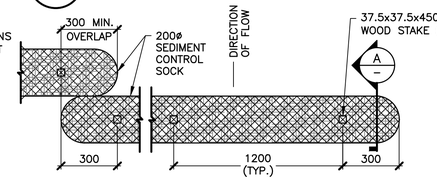
3 DETAIL— SERVICING CROSS SECTION (TYPICAL)
1:50



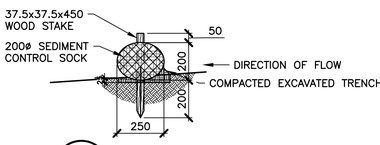
4 DETAIL— SILT FENCE
N.T.S.



5 DETAIL— STRAW BALE CHECK DAM
N.T.S.

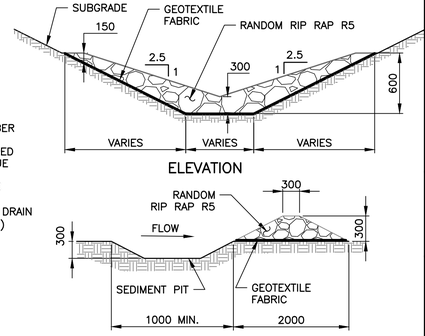


PLAN
N.T.S.



A SECTION
N.T.S.

6 DETAIL— SEDIMENT CONTROL SOCK
N.T.S.



7 DETAIL— RIP RAP CHECK DAM
N.T.S.

NOT FOR CONSTRUCTION

No.	Description	Date	By
0	ISSUED FOR APPROVAL & TENDER	MAR 17/23	TSL

Revision or Issue

TOWN OF STRATFORD

COMMUNITY CAMPUS

SITE SERVICING
CIVIL

DETAILS NO. 1

CBCL

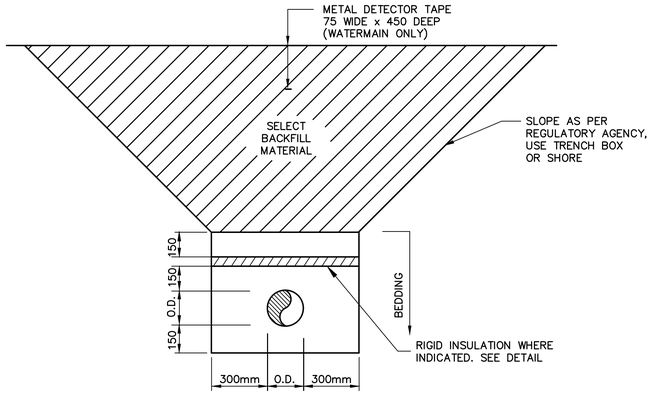
CBCL No	Contract No	Date	Scale
222617.00	222617.00	MAR. 2023	AS NOTED

Designed	Drawn
TSL	DRC
Checked	Approved
PSH	TSL

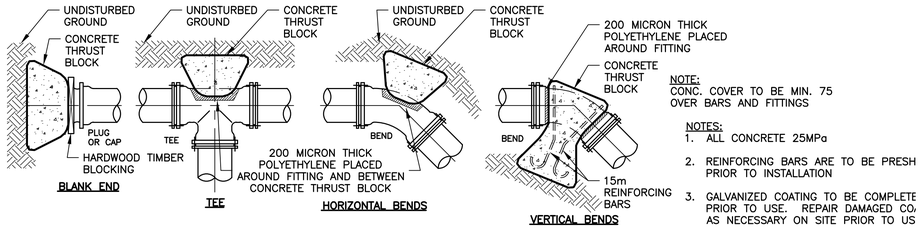
Sheet No 26 of 29

Drawing No **C26**

PROFESSIONAL ENGINEER — The Association Of Professional Engineers Of Prince Edward Island — Province Of Prince Edward Island — Tim LeLacheur 1453 — Date Mar 17 2023



8 DETAIL— SINGLE PIPE TRENCH
N.T.S.



NOTE:
CONC. COVER TO BE MIN. 75
OVER BARS AND FITTINGS

NOTES:
1. ALL CONCRETE 25MPa
2. REINFORCING BARS ARE TO BE PRESH
PRIOR TO INSTALLATION
3. GALVANIZED COATING TO BE COMPLETE
PRIOR TO USE. REPAIR DAMAGED CO
AS NECESSARY ON SITE PRIOR TO US

MINIMUM CONTACT AREAS FOR CONC. THRUST BLOCKS

PIPE ø	AREA m² FOR SOIL SUPPORTING CAPACITY OF 100 kPa					
mm	CAP/PLUG	TEE	90° BEND	45° BEND	22.5° BEND	11.25° BEND
100	0.25	0.25	0.32	0.20	0.16	0.16
150	0.48	0.48	0.64	0.40	0.24	0.16
200	0.80	0.80	1.12	0.64	0.32	0.16
250	1.28	1.28	1.76	0.96	0.48	0.24
300	1.76	1.76	2.56	1.44	0.72	0.40

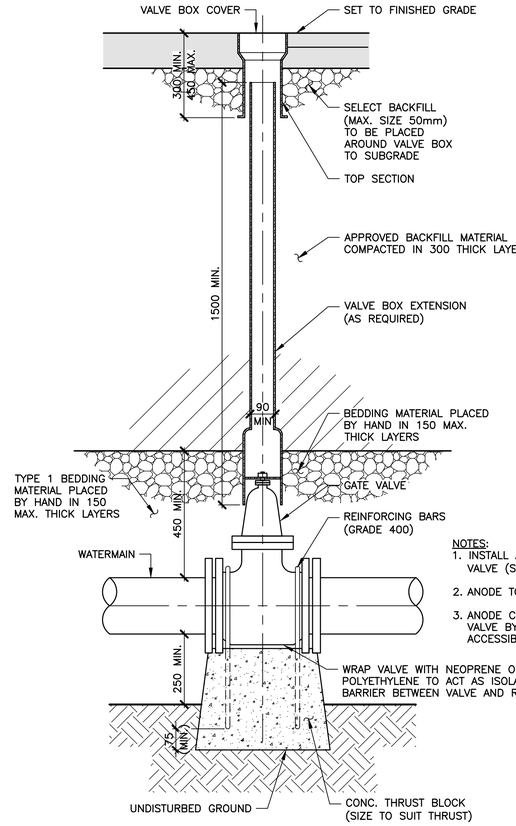
MINIMUM DISTANCE FROM FITTING TO UNDISTURBED GROUND

PIPE ø mm	mm
100	450
150	450
200	450
250	600
300	750

VERTICAL THRUST BLOCKS THRUST COMPENSATED FOR BY MASS OF CONCRETE (m³)

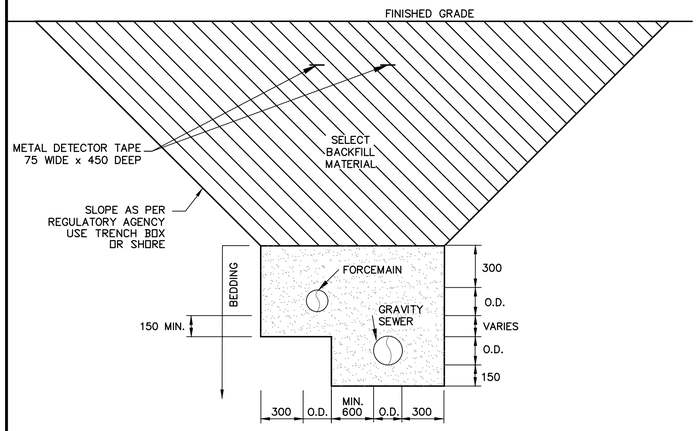
PIPE ø mm	45° BEND	22.5° BEND	11.25° BEND
100	0.40	0.20	0.20
150	0.80	0.40	0.40
200	1.40	0.70	0.70
250	2.10	1.10	1.10
300	3.00	1.50	1.50

11 DETAIL— THRUST BLOCK DETAIL
N.T.S.

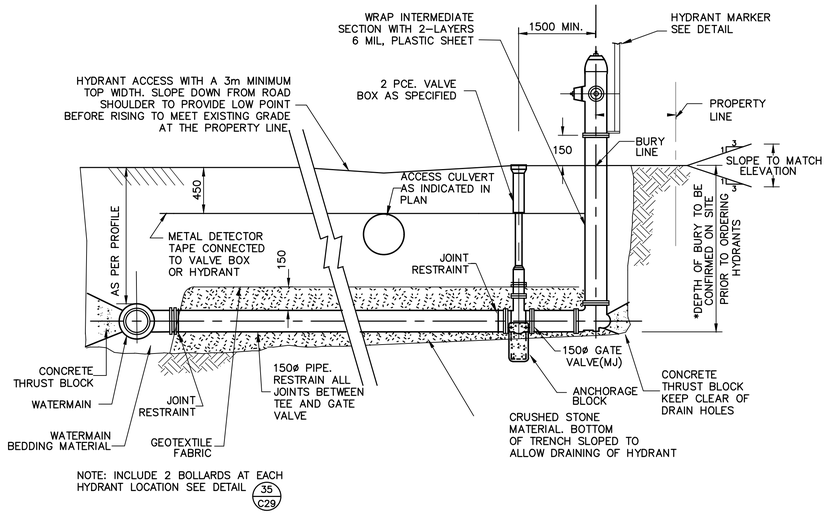


NOTES:
1. INSTALL A ZINC ANODE AT EACH VALVE (SEE DETAIL)
2. ANODE TO BE ZINC 24–48 TYPE.
3. ANODE CONNECTION TO GATE VALVE BY DOUBLE NUTting ON ACCESSIBLE STUD

15 DETAIL— GATE VALVE & BOX
N.T.S.

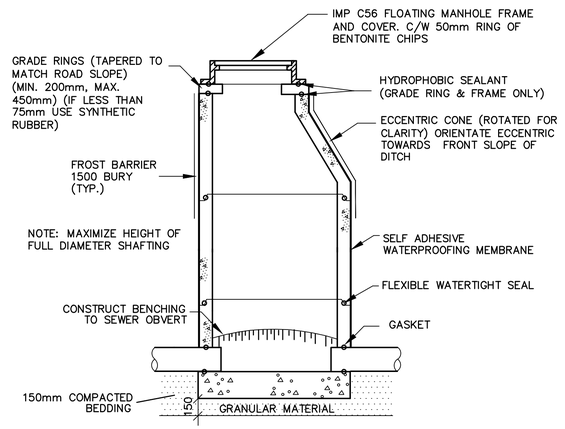


9 DETAIL— TWO PIPE TRENCH
N.T.S.

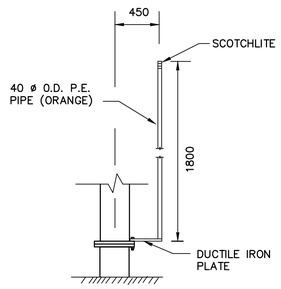


NOTE: INCLUDE 2 BOLLARDS AT EACH HYDRANT LOCATION SEE DETAIL (35/C29)

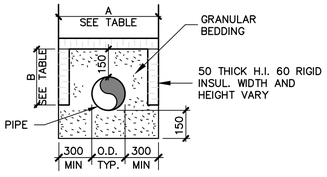
12 DETAIL— FIRE HYDRANT (TYPICAL)
N.T.S.



10 DETAIL— ECCENTRIC CONE MANHOLE
N.T.S.

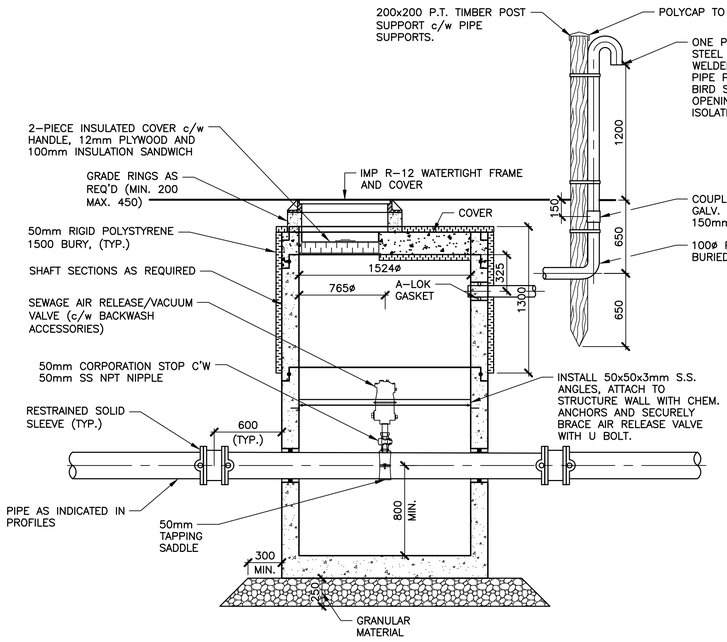


13 DETAIL— HYDRANT MARKER
N.T.S.



COVER (m)	A–WIDTH (m)	B– HEIGHT(m)
0.45–0.60	1.2	0.60
0.60–0.90	0.90	0.60
0.90–1.20	0.60	0.60
1.20–1.50	0.60	0.30
1.50–1.80	0.60	–

14 DETAIL— PIPE INSULATION
N.T.S.



16 DETAIL— AIR RELEASE VALVE & CHAMBER
N.T.S.

NOT FOR CONSTRUCTION

No.	Description	Date	By
0	ISSUED FOR APPROVAL & TENDER	MAR 17/23	TSL

Revision or Issue

TOWN OF STRATFORD

COMMUNITY CAMPUS

SITE SERVICING
CIVIL

DETAILS NO. 2

CBCL

CBCL No	Contract No	Date	Scale
222617.00	222617.00	MAR. 2023	AS NOTED

Designed	Drawn
TSL	DRC
Checked	Approved
PSH	TSL

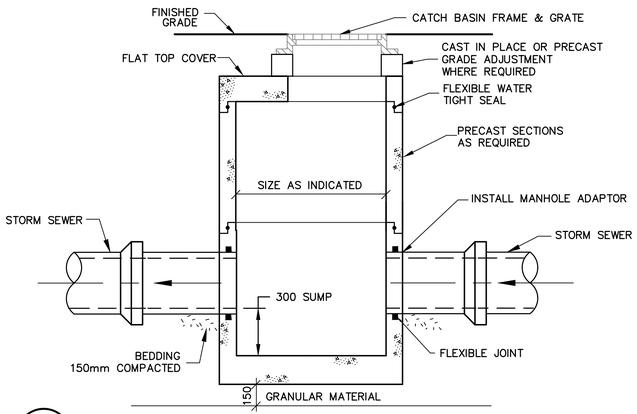
PROFESSIONAL ENGINEER
THE ASSOCIATION OF PROFESSIONAL ENGINEERS OF THE PROVINCE OF PRINCE EDWARD ISLAND
Tim LeLacheur
1453
Mar 17 2023
Date
PROVINCE OF PRINCE EDWARD ISLAND

Sheet No 27 of 29

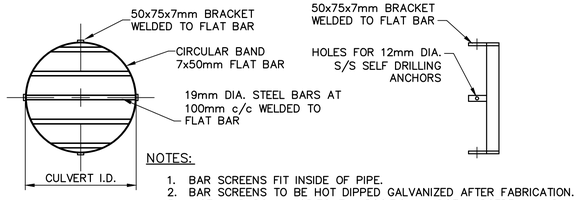
Drawing No **C27**

DRAWING NAME: \\CBCL.LAN\CBCL\CHARLOTTETOWN\DATA\CBCL JOB FOLDERS\2022\222617.00 STRATFORD - COMMUNITY CAMPUS SITE SERVICING\64 CAD\01 CIVIL\03 DRAWING SHEETS\222617_COVER & DETAILS.DWG LAYOUT NAME: C27 DETAILS NO. 2 PLOT DATE: March 17, 2023 5:44:03 PM CAD OPERATOR: TLELACHEUR

CBCL-610x914 TITLE SHEET (ARCH D)

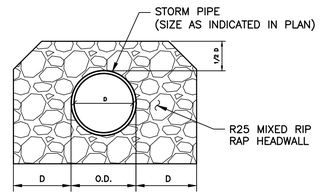


17 DETAIL— CATCH BASIN
N.T.S.

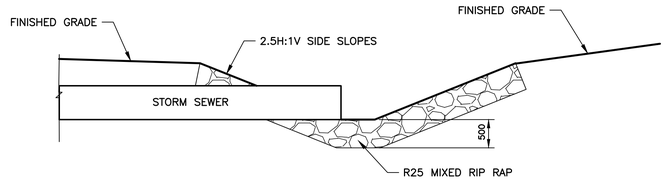


NOTES:
1. BAR SCREENS FIT INSIDE OF PIPE.
2. BAR SCREENS TO BE HOT DIPPED GALVANIZED AFTER FABRICATION.
3. INSTALL BARS IN HORIZONTAL POSITION IN BOTH UPSTREAM AND DOWNSTREAM APPLICATIONS.
4. INSTALL BAR SCREENS IN ALL INLET/OUTLETS OF CLOSED STORM SYSTEMS AND ALL CULVERTS EXCEEDING 24m IN LENGTH.

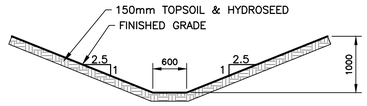
18 DETAIL— BAR SCREEN
N.T.S.



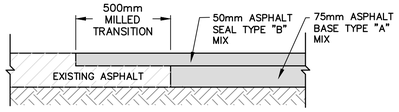
21 DETAIL— RIP RAP HEADWALL ELEVATION
N.T.S.



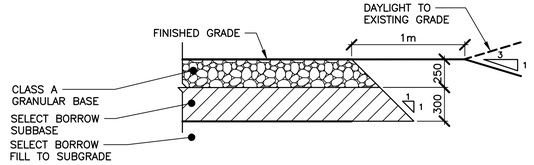
22 DETAIL— RIP RAP HEADWALL SECTION
N.T.S.



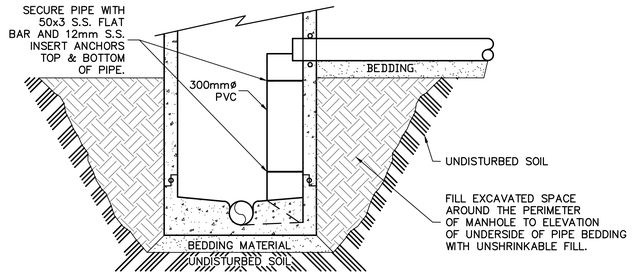
23 DETAIL— DRAINAGE SWALE
N.T.S.



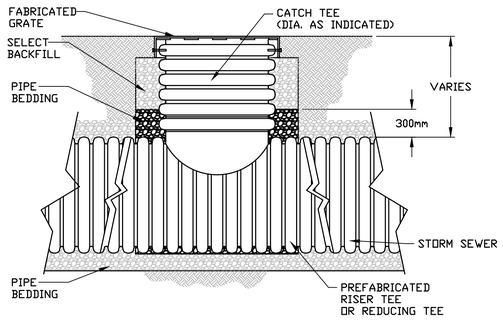
25 DETAIL— ASPHALT TRANSITION TO EX. SURFACE
N.T.S.



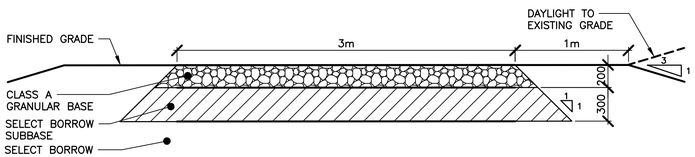
26 DETAIL— TEMPORARY CUL-DE-SAC
N.T.S.



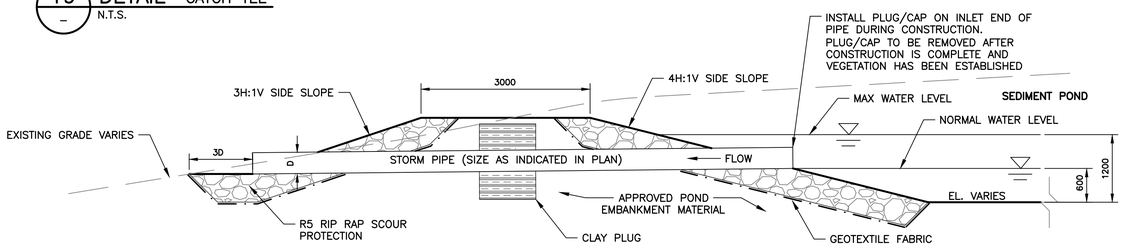
27 DETAIL— DROP MANHOLE
N.T.S.



19 DETAIL— CATCH TEE
N.T.S.

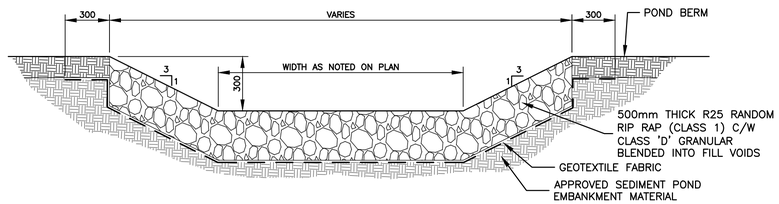


24 DETAIL— PUMP STATION ACCESS
N.T.S.



CLAY PLUG NOTES:
1. CLAY PLUGS TO BE PLACED AT MID POINT OF FULL LENGTH OF PIPE.
2. CLAY PLUG TO BE A MINIMUM OF 1.0m LONG AND A MINIMUM OF 450mm ON ALL SIDES OF THE PIPE.
3. CLAY PLUG MUST EXTEND BEYOND BEDDING MATERIALS IN ALL DIRECTIONS.
4. CLAY TO BE FREE OF BEDDING AND OTHER FOREIGN MATERIAL.
5. CLAY TO BE COMPACTED AND TO BE FREE FROM SEAMS AND VOIDS.

20 DETAIL— SEDIMENT POND OUTLET
N.T.S.



28 DETAIL— SEDIMENT POND SPRILLWAY
N.T.S.

NOT FOR CONSTRUCTION

No.	Description	Date	By
0	ISSUED FOR APPROVAL & TENDER	MAR 17/23	TSL

Revision or Issue

TOWN OF STRATFORD

COMMUNITY CAMPUS

SITE SERVICING

CIVIL

DETAILS NO. 3

CBCL

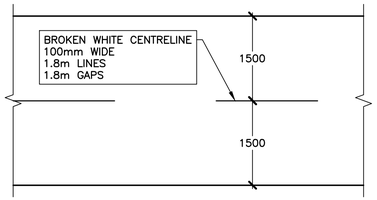
CBCL No	Contract No	Date	Scale
222617.00	222617.00	MAR. 2023	AS NOTED

Designed	Drawn
TSL	DRC
Checked	Aproved
PSH	TSL

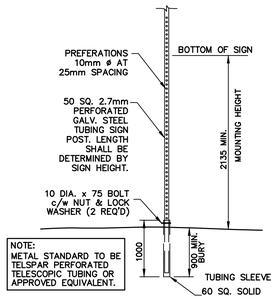
PROFESSIONAL ENGINEER — The Association of Professional Engineers of the Province of Prince Edward Island — Tim LeLacheur 1453 — Mar 17 2023 — Province of Prince Edward Island

Sheet No 28 of 29

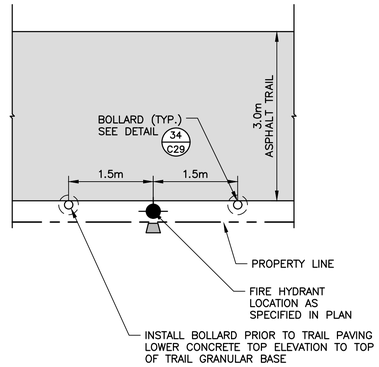
Drawing No **C28**



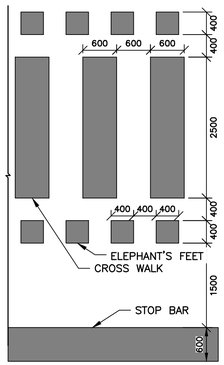
29 DETAIL— TRAIL MARKINGS
N.T.S.



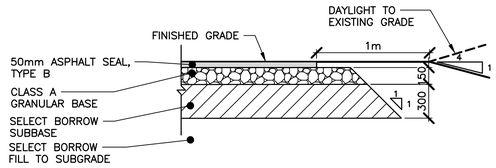
32 DETAIL— SIGN POST
N.T.S.



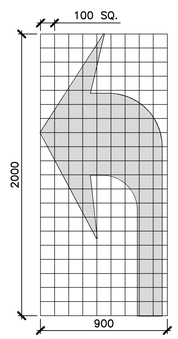
35 DETAIL— HYDRANT BOLLARDS
N.T.S.



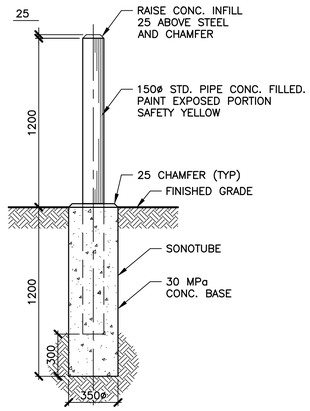
30 DETAIL— MULTI-USE TRAIL CROSSWALK
N.T.S.



33 DETAIL— ASPHALT DRIVEWAY
N.T.S.



31 DETAIL— PAINTED LEFT TURN ARROW
N.T.S.



34 DETAIL— BOLLARD
N.T.S.

PAVEMENT MARKING SCHEDULE

IDENTIFICATION	TYPE	COLOUR	WIDTH (mm)
1	SOLID	YELLOW	100
2	SOLID	WHITE	100
3	3.0–3.0–3.0 CONTINUITY LINE	WHITE	100
4	SOLID STOP LINE	WHITE	600
5	0.6–0.6–0.6 CROSSWALK	WHITE	2500
6	0.4–0.4–0.4 ELEPHANT'S FEET	WHITE	400
7	1.8–1.8–1.8 TRAIL CENTER LINE	WHITE	100
8	0.6–3–0.6 GORE AREA	YELLOW	VARIES
9	SYMBOLS & ARROWS	WHITE	VARIES

NOTES:

1. 3–3–3 DENOTES PAVEMENT MARKING SPACING (IE., 3m LINE, 3m GAP, 3m LINE)

TRAFFIC SIGN SCHEDULE

	SIGN	NAME	QUANTITY
STOP	RA–1 (600x600mm)	STOP SIGN	5
	WB–1 (750x750mm)	STOP AHEAD	2
SHARED PATHWAY	RB–93 (450x600mm)	SHARED PATHWAY	5
	ID–31 (450x450mm)	CUL–DE–SAC	1
NO THRU TRUCK TRAFFIC	(450x600mm)	NO THRU TRUCK TRAFFIC	2
	WA–8 (750x750mm)	CHECKERBOARD	1
	WA–23 (750x750mm)	ROAD NARROWS	1

NOT FOR CONSTRUCTION

No.	Description	Date	By
0	ISSUED FOR APPROVAL & TENDER	MAR 17/23	TSL

Revision or Issue

TOWN OF STRATFORD

COMMUNITY CAMPUS

SITE SERVICING

CIVIL

DETAILS NO. 4

CBCL

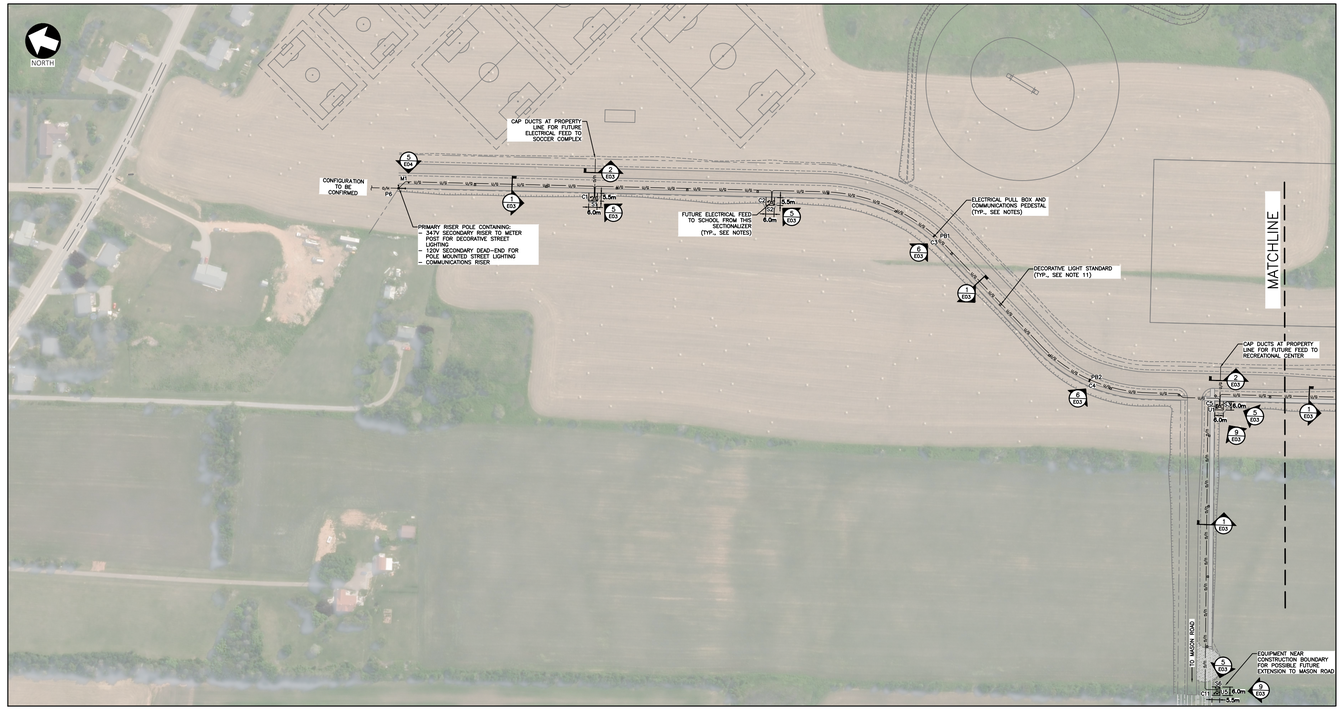
CBCL No	Contract No	Date	Scale
222617.00	222617.00	MAR. 2023	AS NOTED

Designed	Drawn
TSL	DRC
Checked	Aproved
PSH	TSL

PROFESSIONAL ENGINEER — The Association of Professional Engineers of The Province of Prince Edward Island — Tim LeLacheur 1453 — Mar 17 2023 Date — PROVINCE OF PRINCE EDWARD ISLAND

Sheet No 29 of 29

Drawing No **C29**



0 40 80 120 160 200m

1:2000

BILL OF MATERIALS			
UNDERGROUNDING	QTY.	UNITS.	NOTES
PVC 127mm	3200	m	PRIMARY DUCTS
PVC 100mm	7000	m	SECONDARY AND COMMUNICATIONS DUCTS
PVC 53mm	3000	m	STREET LIGHTING DUCTS
UTILITY BENDS & CONNECTORS	AS REQ.	EA.	1525mm & 915mm RAD. BENDS AS APPLICABLE (SEE NOTE 2)
50 X 150 mm PLANKS	AS REQ.	EA.	REFER TO E03 DUCTBANK DETAILS
HIGH VOLTAGE WARNING RIBBON	AS REQ.	EA.	REFER TO E03 DUCTBANK DETAILS
BOLLARDS & COVERS	32	EA.	4 PER PADMOUNT PRIMARY EQUIPMENT
ELECTRICAL	QTY.	UNITS.	NOTES
PRIMARY RISERS	2	EA.	AS PER MECL STANDARD
URD BOX	4	EA.	
SECONDARY RISER	3	EA.	PROVISION FOR 2 SERVICES (SOUTH), RE-FEED 1 EXST. SERVICE (NORTH)
UTILITY METER	1	EA.	PUMPING STATION: REFER TO SHEET E05 & E06
OTHER ITEMS (PUMPING)	1	LOT	REFER TO SHEETS E05 & E06
PULL BOXES	3	EA.	SEE NOTES 3 & 7
CABLES	1	LOT	SECONDARY TO PUMPING STATION, REFER TO E02, E05, & E06
2/0 CU STRANDED BARE	1700	m	MAIN DUCTBANK RUN, PLUS EXTRA AS REQ. FOR PADMOUNT EQUIP. GROUND LOOP
GROUNDING RODS	75	EA.	PADMOUNTED EQUIPMENT (4 EACH), DECORATIVE LIGHT STANDARDS (1 EACH), METER POSTS, COMMUNICATIONS PEDESTALS (1 EACH)
#2 AWG CU STRANDED BARE	54	m	DECORATIVE LIGHT STANDARD GROUNDING, APPROX. (SEE NOTE 11)
STREET LIGHTING	QTY.	UNITS.	NOTES
METER/SERVICE POST	2	EA.	ONE PER U/G LIGHTING CIRCUIT (NEAR NORTH/SOUTH RISERS)
DECORATIVE POLES	27	EA.	REFER TO E04 FOR DETAILED REQUIREMENTS
DECORATIVE LUMINAIRES	27	EA.	REFER TO E04 FOR DETAILED REQUIREMENTS
LIGHT STANDARD BASE	27	EA.	ONE PER LIGHT STANDARD, REFER TO E04 FOR DETAILED REQUIREMENTS
URD/PEDESTAL	2	EA.	NEAR INTERSECTION (OPEN POINT) & CONSTRUCTION BOUNDARY
CABLES	1	LOT	REFER TO E02/E04 FOR DETAILED REQUIREMENTS
COMMUNICATIONS	QTY.	UNITS.	NOTES
PEDESTALS	11	EA.	ESTIMATED QUANTITY FOR COMMUNICATIONS
COMMUNICATIONS RISER	5	EA.	ONE PER SECONDARY RISER FROM O/H SERVICES AND ONE PER PRIMARY RISER

NOTES:

1. REFER TO CIVIL PLANS FOR DETAILS OF SITE LAYOUT. REFER TO TYPICAL ROAD CROSS–SECTIONS FOR STANDARD PLACEMENT OF UTILITY POLES AND DECORATIVE LIGHT STANDARDS.
2. USE LONG SWEEP 1525mm RADIUS PVC CONDUIT UTILITY BENDS IN ALL RISER POLE VERTICAL TO HORIZONTAL TRANSITIONS, AND ALL HORIZONTAL BENDS. FOR HORIZONTAL TO VERTICAL TRANSITIONS TO PADMOUNT EQUIPMENT, 915mm BEND MAY BE USED.
3. SECTIONALIZING CABINETS AND PULL BOXES ARE PLACED TO LIMIT CABLE PULLING DISTANCE AND ALLOW FOR EXPANSION IN FUTURE PHASES. PLACEMENT AND QUANTITY TO BE CONFIRMED BY MECL.
4. ALL WORK SHALL BE CARRIED OUT IN CONFORMANCE WITH MARITIME ELECTRIC AND TELECOMMUNICATIONS STANDARDS.
5. ALL COMMUNICATIONS PEDESTALS AND CABLES SUPPLIED AND INSTALLED BY TELECOMMUNICATIONS COMPANY. ALL BOXES UNDER PEDESTALS AND RISER MATERIALS TO BE SUPPLIED AND INSTALLED BY THE CONTRACTOR.
6. ALL PRIMARY CABLES SUPPLIED AND INSTALLED BY MARITIME ELECTRIC.
7. SECONDARY PEDESTALS, TRANSFORMER PADS, AND PULL BOXES ARE TO BE SUPPLIED AND INSTALLED IN PLACE BY THE CONTRACTOR. SECTIONALIZING CABINETS AND PADMOUNT TRANSFORMERS ARE TO BE SUPPLIED BY MECL AND INSTALLED IN PLACE BY THE CONTRACTOR. ALL OVERHEAD MATERIALS TO BE SUPPLIED AND INSTALLED BY MECL (EXCL. RISER DUCTS AND OTHER MATERIALS).
8. STUB UP ALL ELECTRICAL CONDUITS IN SECTIONALIZING CABINETS, TRANSFORMER PADS AND PULL BOXES, AS SPECIFIED BY MARITIME ELECTRIC. CONTRACTOR TO CONSULT WITH MARITIME ELECTRIC ON THE DELIVERY SCHEDULE FOR THE EQUIPMENT AND CONFIRM ARRANGEMENT OF THE CONDUITS WITHIN THE CABINETS.
9. ALL PADMOUNT EQUIPMENT PLACEMENT AS PER MECL STANDARD E–90–03: PADMOUNT EQUIPMENT LOCATION DETAILS.
10. ALL PADMOUNT PRIMARY EQUIPMENT TO HAVE BOLLARD INSTALLATION AS PER MARITIME ELECTRIC REQUIREMENTS. REFER TO SHEET E03 – DISTRIBUTION DETAILS.
11. FOR STREET LIGHTING INFORMATION, INCLUDING SERVICE/METER POST INSTALLATION, SINGLE LINE DIAGRAM, AND STREET LIGHT CIRCUIT WIRING, REFER TO SHEET E04 – LIGHTING DETAILS.
12. SIDEWALK STRUT GUYING SHOULD BE USED WHERE GUYS ARE SHOWN CROSSING TRAIL.
13. GROUNDING SHALL BE IN ACCORDANCE WITH SECTION 10 OF THE LATEST CANADIAN ELECTRICAL CODE.
14. METER AS PER MECL STANDARD. REFER TO UG–18–08.
15. CONTRACTOR TO ARRANGE START–UP MEETINGS WITH CONSULTANT, MARITIME ELECTRIC, AND TELECOMMUNICATIONS COMPANIES BEFORE COMMENCING WORK.

LEGEND:

- S/N — S/N — OVERHEAD LINE
- U/G — U/G — U/G MAIN TRENCH
- U/G — — — U/G SECONDARY
- PROPERTY LINES
- POLE
- GUY & ANCHOR
- BOLLARD
- URD/SECONDARY PEDESTAL
- PB — PULL BOX
- C — COMMUNICATIONS PEDESTAL
- SECTIONALIZING CABINET
- TRANSFORMER PAD
- UTILITY POLE MOUNT STREET LIGHT
- DECORATIVE LIGHT STANDARD
- M — METER POST

GENERAL NOTES:

1. ALL DIMENSIONS IN METRIC UNLESS OTHERWISE NOTED.

NOT FOR CONSTRUCTION

No.	Description	Date	By
0	ISSUED FOR TENDER	MAR 17/23	TSL
A	ISSUED FOR MECL REVIEW	FEB 27/23	MWC

Revision or Issue

TOWN OF STRATFORD

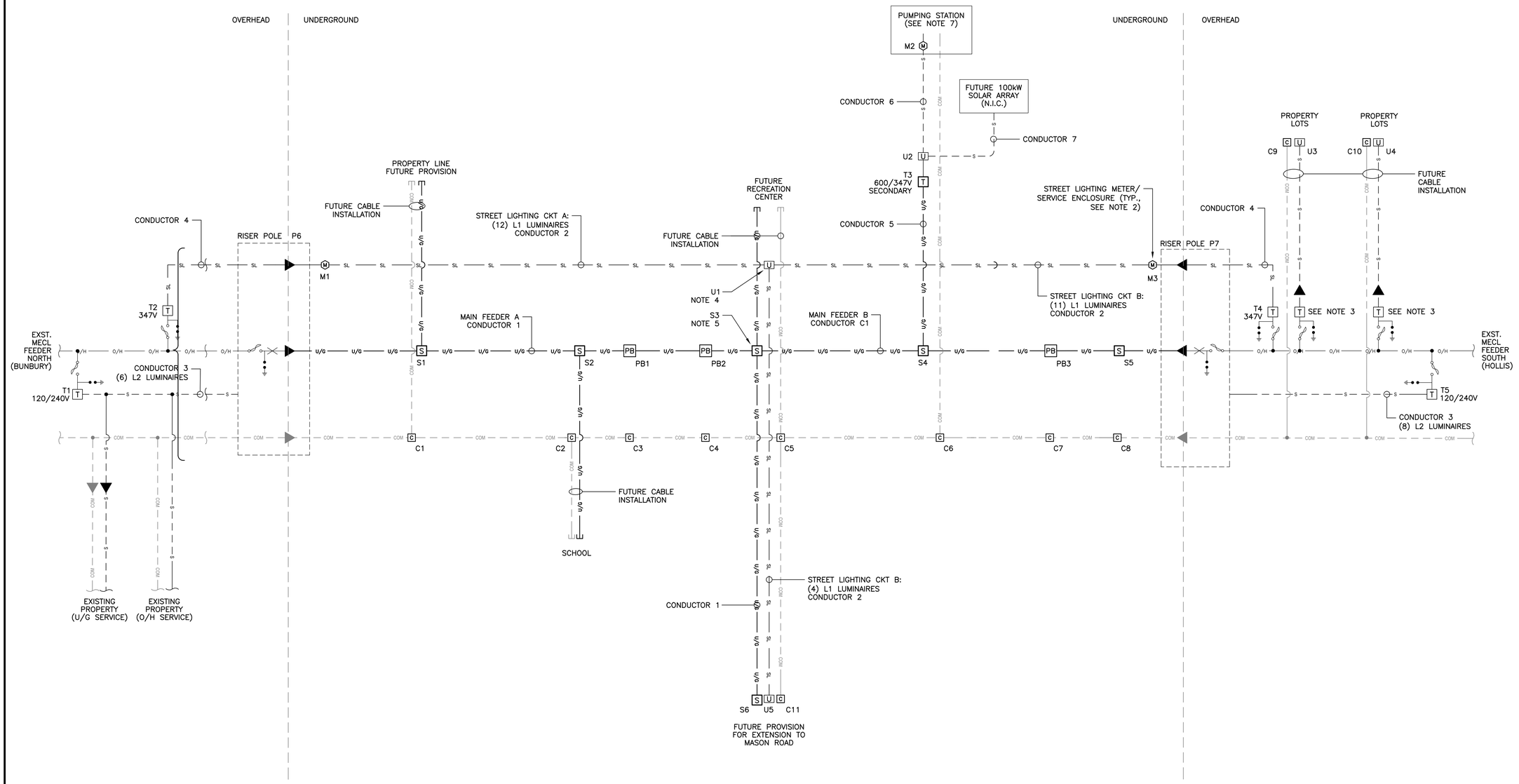
COMMUNITY CAMPUS

SITE SERVICING
ELECTRICAL

DISTRIBUTION & LIGHTING SYSTEM LAYOUT

CBCL

CBCL No 222617.00	Contract No 222617.00
Date FEB 2023	Scale AS NOTED
Designed MEF	Drawn MEF
Checked MWC	Approved
Sheet No 1 of 6	
Drawing No E01	



LEGEND:

- O/H – O/H PRIMARY
- U/G – U/G PRIMARY
- S – SECONDARY
- SL – STREET LIGHTING
- COM – COMMUNICATIONS
- – O/H TO U/G RISER
- – FUSED CUTOUT (AERIAL)
- – SWITCH
- – LIGHTNING ARRESTOR
- U – SEC. PEDESTAL (URD)
- PB – PULL BOX
- C – COMMS PEDESTAL
- S – SECTIONALIZING CABINET
- T – TRANSFORMER
- M – METER (POST/BLDG)

NOTES:

1. REFER TO SHEET E01 – DISTRIBUTION & LIGHTING SYSTEM LAYOUT FOR EQUIPMENT LOCATIONS.
2. REFER TO SHEET E04 – LIGHTING DETAILS FOR LUMINAIRE INFORMATION AND DIAGRAMS.
3. TRANSFORMERS TO BE INSTALLED AS REQUIRED FOR BUSINESS PARK SERVICES. SIZING TO BE DETERMINED BY CUSTOMER LOADS. 120V SERVICE MAY BE FED FROM EXISTING SECONDARY (STREET LIGHTING CIRCUIT) IF THREE–PHASE NOT REQUIRED.
4. OPEN POINT IN URD TO SPLIT U/G STREET LIGHTING CKT A & B.
5. OPEN POINT IN SECTIONALIZING CABINET TO SPLIT MAIN NORTH AND SOUTH CIRCUITS. ALLOWS SWITCHING OF LOADS BETWEEN BUNBURY AND HOLLIS FEEDERS, AND FUTURE MASON ROAD FEEDER.
6. REFER TO SHEET FOR E03 – DISTRIBUTION DETAILS SOME EQUIPMENT DETAILS.
7. REFER TO SHEETS E05 – LIFT STATION PLAN & SECTIONS & E06 – LIFT STATION SINGLE LINE DIAGRAM & DETAILS.

NOT FOR CONSTRUCTION

No.	Description	Date	By
0	ISSUED FOR TENDER	MAR 17/23	TSL
A	ISSUED FOR MECL REVIEW	FEB 27/23	MWC

Revision or Issue

TOWN OF STRATFORD

COMMUNITY CAMPUS

SITE SERVICING
ELECTRICAL

DISTRIBUTION & LIGHTING SCHEMATIC

CBCL

CBCL No 222617.00	Contract No 222617.00
Date FEB 2023	Scale AS NOTED
Designed MEF	Drawn MEF
Checked MWC	Approved
Sheet No 2 of 6	
Drawing No E02	

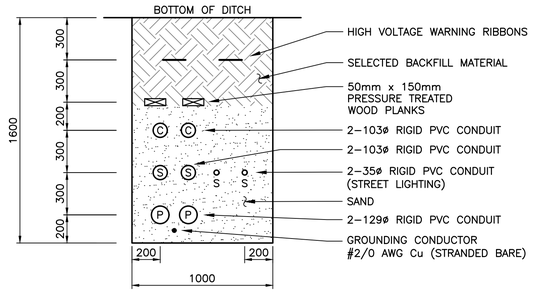
UNDERGROUND LIGHTING CIRCUIT DATA

CKT	QTY.	TOTAL W	TOTAL A	DIST. (m, APPROX.)
A (NORTH)	12	660	1.90	675
B (SOUTH/WEST)	15	825	2.38	770

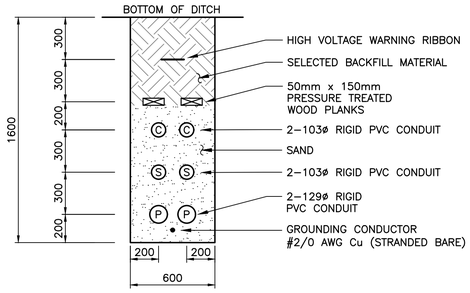
*NOTE: MECL SYSTEM VOLTAGE IS ASSUMED. TO BE CONFIRMED BY MECL.

CABLE SCHEDULE

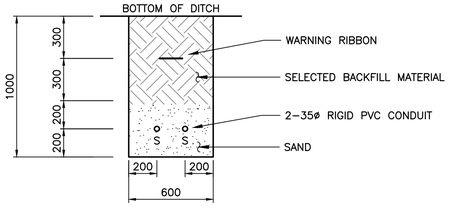
ID	DESCRIPTION	APPLICATIONS
1	15kV*, U/G, AL, 3C–4/0 AWG	MAIN U/G FEEDERS
2	347V, U/G, CU, 3C–#6 AWG (INCL. 1C–#8 AWG BOND WIRE)	U/G STREET LIGHTING CIRCUITS A & B
3	120/240V, O/H, TRIPLEX, SIZE TBD	O/H SECONDARY CIRCUITS (STREET LIGHTING AND SERVICES)
4	347V, O/H, TRIPLEX, SIZE TBD	DECORATIVE STREET LIGHTING O/H SECTION TO RISER
5	15kV*, U/G, AL, TBD	PUMPING STATION/SOLAR ARRAY PRIMARY BRANCH
6	600/347V, U/G, AL, 4C–#2 AWG (INCL. 1C–#6 AWG BOND WIRE)	PUMPING STATION SECONDARY
7	600/347V, U/G, TBD	SOLAR ARRAY SECONDARY



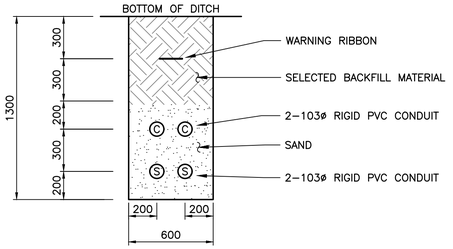
1 DETAIL— MAIN JOINT–USE TRENCH (SEE NOTE 2)
1:20



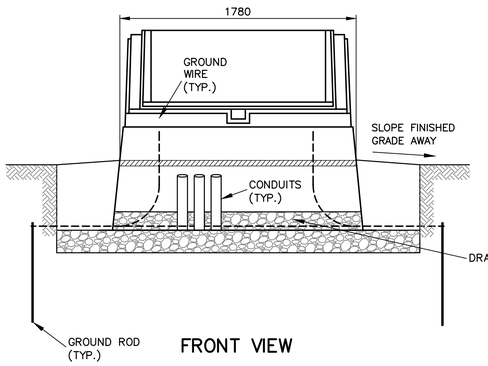
2 DETAIL— PRIMARY SERVICE LATERAL (SEE NOTE 2)
1:20

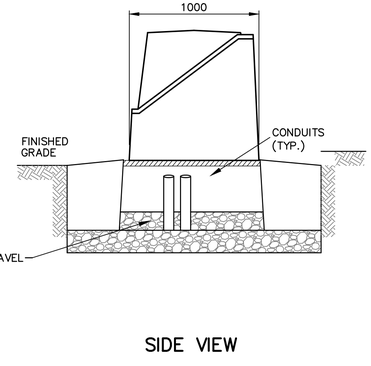


3 DETAIL— SECONDARY TRENCH (LIGHTING ONLY) (SEE NOTE 2)
1:20

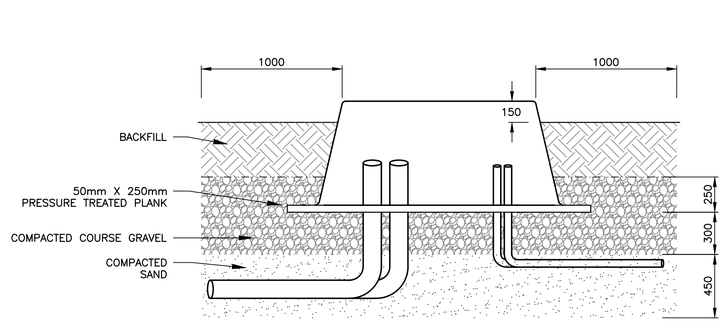


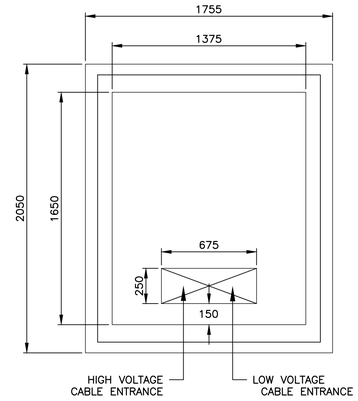
4 DETAIL— SECONDARY SERVICE LATERAL (SEE NOTE 2)
1:20



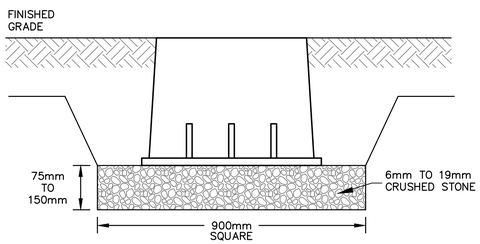


5 DETAIL— PRIMARY SECTIONALIZING CABINET & PAD (SEE NOTES 3, 4, & 6)
N.T.S.

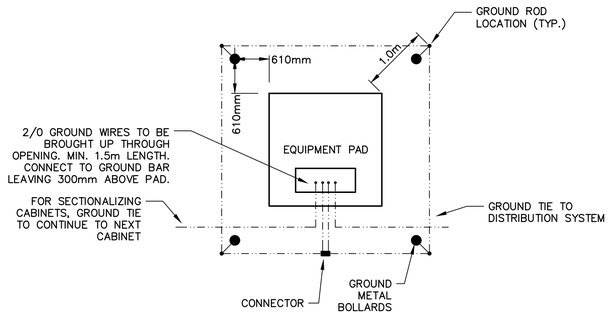




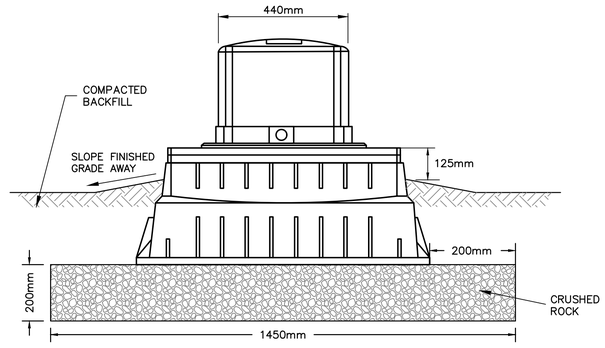
8 DETAIL— TRANSFORMER FIBREGLASS PAD (SEE NOTES 6 & 8)
N.T.S.



6 DETAIL— GRADE LEVEL ENCLOSURE (PULL BOX) (SEE NOTE 5)
N.T.S.



7 DETAIL— PADMOUNT EQUIPMENT INSTALLATION (SEE NOTES 6 & 9)
N.T.S.



9 DETAIL— SECONDARY PEDESTAL/URD (SEE NOTE 7)
N.T.S.

NOTES:

1. ALL INSTALLATIONS TO MEET MECL STANDARDS.
2. REFER TO MECL STANDARD E–88–296: STANDARD TRENCHING DETAIL AND UG–92–01: UNDERGROUND CLEARANCES AT DITCHES IN R.O.W.
3. REFER TO MECL STANDARD UG–05–06: THREE PHASE HIGH VOLTAGE SECTIONALIZING CABINET (PRIMARY).
4. SECTIONALIZING CABINETS TO BE EQUIPPED WITH JUNCTIONS AND PARKING STANDS.
5. REFER TO MECL STANDARD E–99–01: GRADE LEVEL ENCLOSURES INSTALLATION DETAILS.
6. REFER TO MECL STANDARD E–85–143: GROUNDING DETAILS FOR PAD MOUNTED TRANSFORMER, AND UG–18–01: GROUNDING DETAILS FOR SECTIONALIZING CABINET.
7. REFER TO MECL STANDARD UG–05–03: SECONDARY ABOVE GRADE ENCLOSURES/SECONDARY PEDESTALS.
8. REFER TO MECL STANDARD E–12–01: FIBERGLASS PAD 3 PHASE PADMOUNTED UP TO 750kVA.
9. REFER TO MECL STANDARDS E–85–144: PADMOUNT XFMR & SECTIONALIZING CABINET CONCRETE PROTECTIVE BOLLARDS AND E–18–100: SPECIFICATION FOR PLASTIC BOLLARD COVERS.

NOT FOR CONSTRUCTION

No.	Description	Date	By
0	ISSUED FOR TENDER	MAR 17/23	TSL
A	ISSUED FOR MECL REVIEW	FEB 27/23	MWC

Revision or Issue

TOWN OF STRATFORD

COMMUNITY CAMPUS

SITE SERVICING

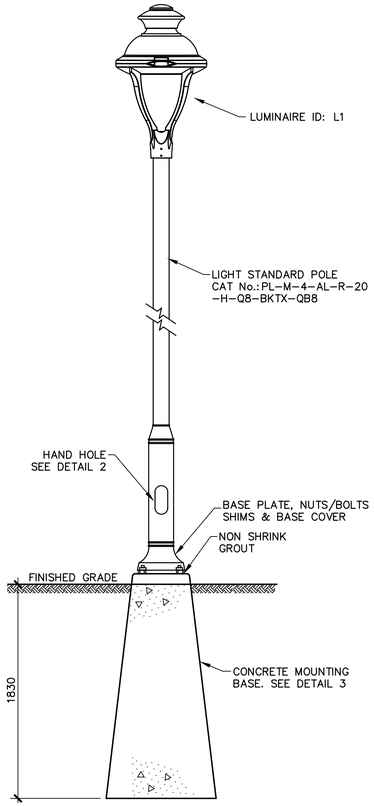
ELECTRICAL

DISTRIBUTION DETAILS

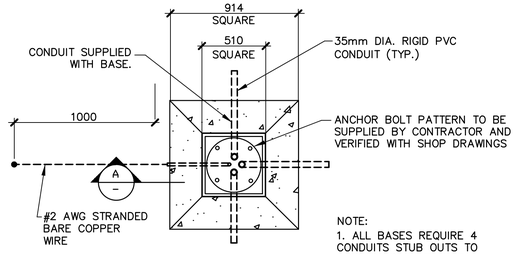
PHASE 1

CBCL

CBCL No 222617.00	Contract No 222617.00
Date FEB 2023	Scale AS NOTED
Designed MEF	Drawn MEF
Checked MWC	Approved
Sheet No 3 of 6	
Drawing No E03	

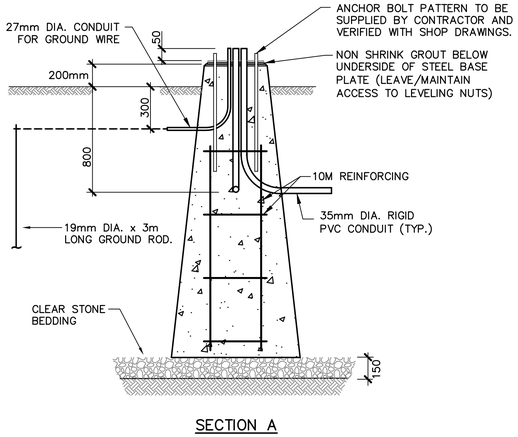


1 DETAIL—LIGHTING POLE (TYP.)
N.T.S.



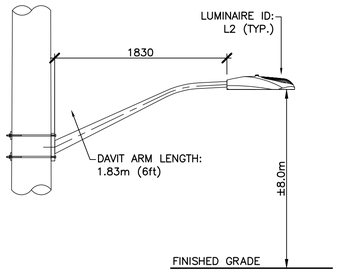
PLAN

NOTE:
1. ALL BASES REQUIRE 4 CONDUITS STUB OUTS TO ACCOMMODATE FUTURE EXTENSIONS.
2. INSTALL GROUND RODS AS INDICATED.



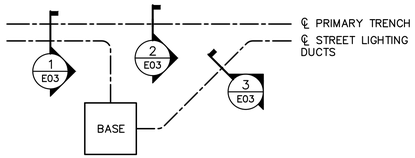
SECTION A

3 DETAIL—PRECAST LIGHT STANDARD BASE (TYP.)
N.T.S.



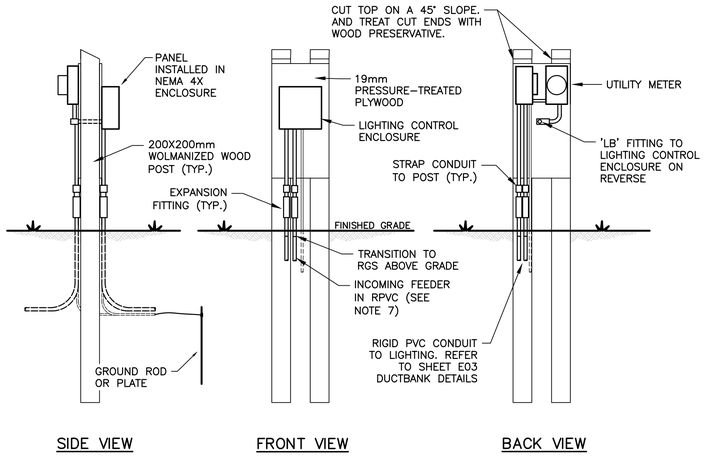
4 DETAIL—POLE MOUNTED STREET LIGHT BY MECL
N.T.S.

Luminaire Schedule						
LABEL	Symbol	Qty	APPLICATION	Description	Lum. Watts	Lum. Lumens
L1		27	DECORATIVE	LUMENPULSE: PUR312T-347-CSL-S60-30K-CRI 80-2	55	4430
L2		14	UTILITY POLE MOUNTED	NXT 36S 2ES 350mA 4000K (TYP., TBD BY UTILITY)	42.3	4978



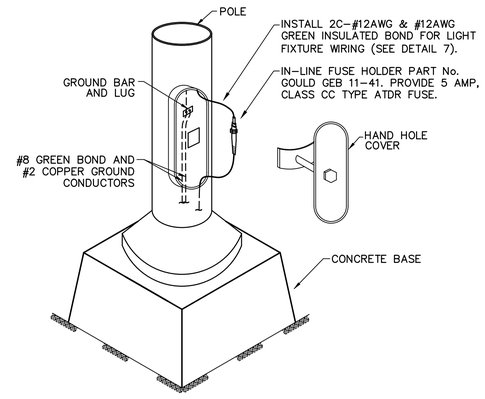
8 DETAIL—DUCTBANK ARRANGEMENT TO LIGHT STANDARD BASE
N.T.S.

DECORATIVE LIGHT POLE SCHEDULE							
POLE ID	CKT	X	Y	POLE ID	CKT	X	Y
LP1	B	394199.84	685823.66	LP15	B	394123.07	686283.21
LP2	B	394183.44	685870.95	LP16	A	394114.81	686307.77
LP3	B	394176.50	685910.25	LP17	A	394102.47	686354.91
LP4	B	394185.96	685959.24	LP18	A	394109.75	686404.00
LP5	B	394199.01	686007.51	LP19	A	394131.61	686448.97
LP6	B	394199.13	686057.09	LP20	A	394153.86	686493.75
LP7	B	394183.36	686104.40	LP21	A	394168.60	686541.41
LP8	B	394167.39	686151.78	LP22	A	394164.04	686590.90
LP9	B	394151.42	686199.16	LP23	A	394148.18	686638.25
LP10	B	393953.79	686227.96	LP24	A	394132.21	686685.63
LP11	B	394000.61	686244.43	LP25	A	394116.24	686733.01
LP12	B	394135.45	686246.54	LP26	A	394100.21	686780.37
LP13	B	394047.75	686261.02	LP27	A	394084.09	686828.48
LP14	B	394094.94	686277.69				

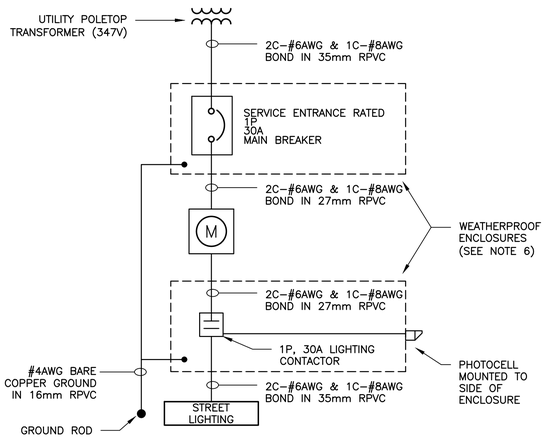


SIDE VIEW FRONT VIEW BACK VIEW

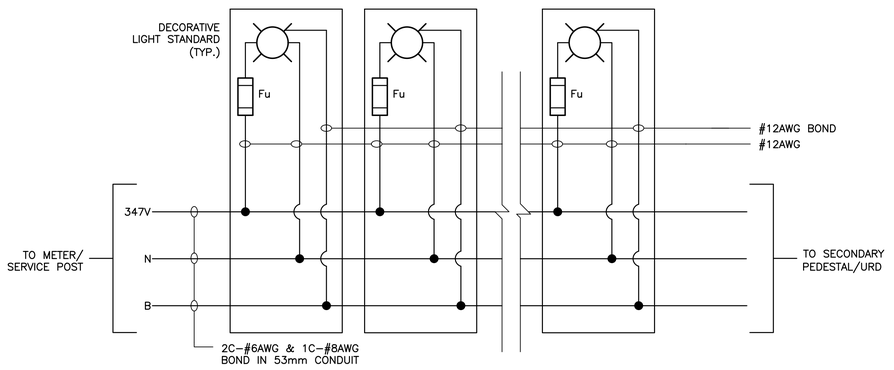
5 DETAIL—TYPICAL LIGHTING METER POST (SEE NOTE 6)
1:30



2 DETAIL—POLE & HAND HOLE APPROXIMATE CONFIGURATION
N.T.S.



6 DETAIL—TYPICAL SINGLE LINE DIAGRAM
N.T.S.



7 DETAIL—LIGHTING CIRCUIT WIRING DIAGRAM
N.T.S.

NOTES:

1. PEDESTRIAN CONFLICT FOR THE TRAIL IS VERY LOW DUE TO SEPARATION FROM ROADWAY. PEDESTRIAN CONFLICT IS ANTICIPATED TO BE MEDIUM AT CROSSWALKS AND LOCATIONS WHERE DRIVEWAY EXIST/WILL BE CONSTRUCTED IN FUTURE PHASES. THE DESIGN FOR PHASE 1 PROVIDES SUFFICIENT LIGHTING DISTRIBUTION FOR THE VERY LOW CONFLICT TRAIL AREAS. IT IS RECOMMENDED THAT INTERSECTION LIGHTING AND CROSSWALK LIGHTING BE REVISITED DURING LATER PHASES WHERE HIGHER PEDESTRIAN ACTIVITY MAY BE EVIDENT.
2. DAVIT ARM LENGTH: 1.83m (6')
3. DESIGN LIGHT LOSS FACTOR (LLF): 0.80
4. TILT = 2.5° FOR UTILITY POLE MOUNTED FIXTURES.
5. DECORATIVE LIGHT STANDARD SPACING: APPROX. 50m (REFER TO SHEET E01 – DISTRIBUTION & LIGHTING SYSTEM LAYOUT).
6. INSTALLATION OF SERVICE EQUIPMENT SHALL COMPLY WITH MECL SERVICE ENTRANCE STANDARDS. COORDINATE INSTALLATION WITH UTILITY. HAVE INSTALLATION INSPECTED AND CERTIFIED. PAY ALL ASSOCIATED FEES.
7. REFER TO MECL STANDARD UG-18-05: SECONDARY RISER ON PRIMARY VOLTAGE POLE TO METER POST.

NOT FOR CONSTRUCTION

No.	Description	Date	By
0	ISSUED FOR TENDER	MAR 17/23	TSL

Revision or Issue

File No.

TOWN OF STRATFORD

COMMUNITY CAMPUS

SITE SERVICING
ELECTRICAL

LIGHTING DETAILS

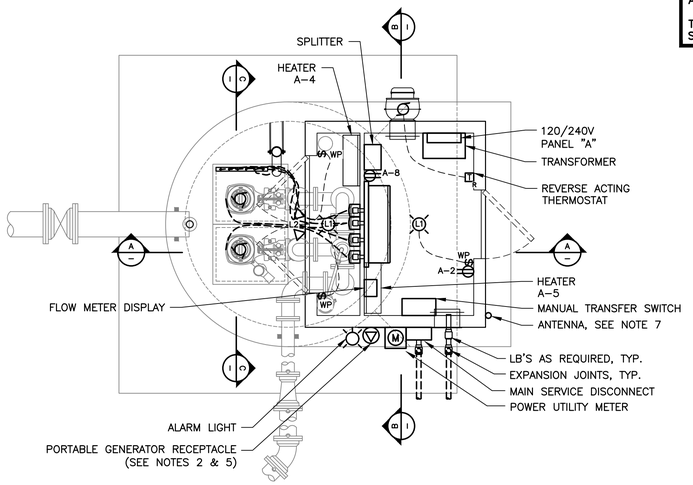
PHASE 1

CBCL

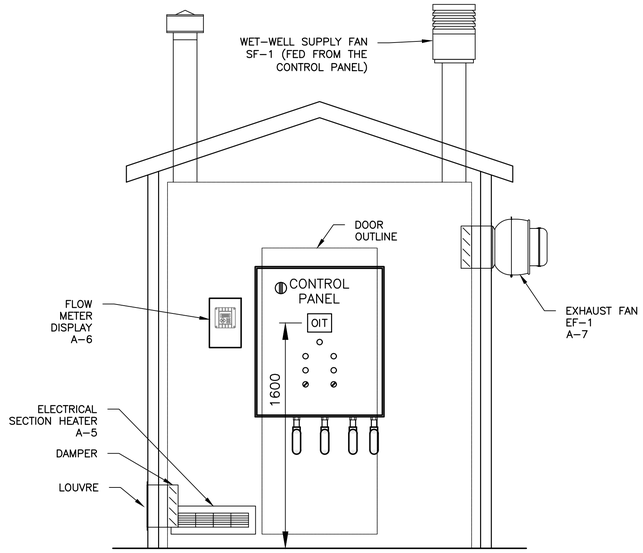
CBCL No	Contract No
222617.00	222617.00
Date: MAR 2023	Scale: AS NOTED
Designed: MEF	Drawn: MEF
Checked: MM	Approved:
Sheet No: 4 of 6	
Drawing No: E04	

LIFT STATION WET–WELL DESIGNATED AS A ZONE 2 HAZARDOUS AREA. THE AREA AROUND EACH ACCESS HATCH IS UNCLASSIFIED.

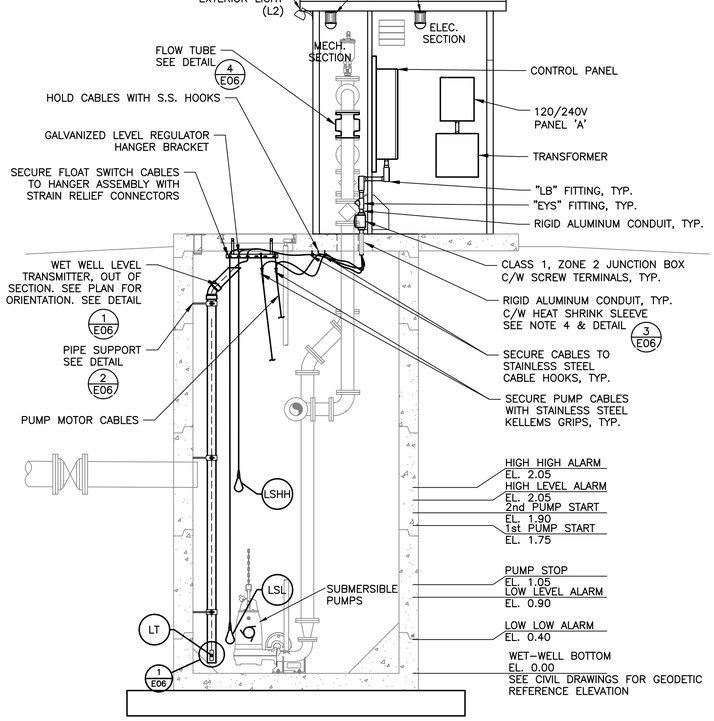
THE AREA EXTENDING 0.9m RADIUS FROM A VENT PIPE SITUATED OVER THE SERVICE ENCLOSURE SHALL BE DESIGNATED AS A ZONE 2 HAZARDOUS AREA.



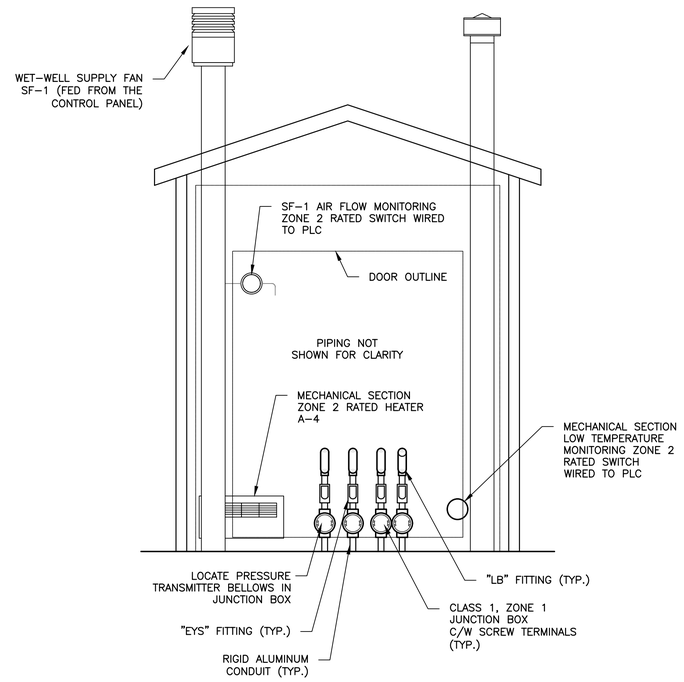
PLAN – SEWEGAE LIFT STATION
1:30



B – SECTION – SERVICE ENCLOSURE (ELECTRICAL)
1:20



A – SECTION – LIFT STATION
1:30



C – SECTION – SERVICE ENCLOSURE (MECHANICAL)
1:20

NOTES:

1. UNLESS OTHERWISE NOTED, ALL EQUIPMENT SHOWN IS NEW.
2. GENERATOR RECEPTACLE AND MATCHING PLUG, MELTRIC 37–98147 C/W BACK BOX, ANGLE ADAPTER AND WEATHER COVER.
3. REFER TO SPECIFICATION 26 90 00 FOR CONTROL PANEL.
4. ALL PENETRATIONS INTO THE WET–WELL FROM THE EQUIPMENT ENCLOSURE SHALL BE SEALED AND GAS TIGHT WITH NON–SHRINK GROUT.
5. SUPPLY AND INSTALL LAMICOID NAMEPLATE AT THE PORTABLE GENERATOR RECEPTACLE INDICATING "600V, 3ø PORTABLE GENERATOR" AND "NEUTRAL FLOATING ONLY AT THE GENERATOR".
6. CONFIRM LEVEL SET POINTS FOR EACH STATION WITH ENGINEER PRIOR TO INSTALLATION OF LEVEL CONTROLS.
7. GROUND ANTENNA MAST AND CABLE IN ACCORDANCE WITH THE CANADIAN ELECTRICAL CODE AND ELECTRICAL INSPECTION AUTHORITY HAVING JURISDICTION.

LEGEND:

- WP – WEATHERPROOF
- 120V, 15A GRADE DUPLEX RECEPTACLE
- $ – 120V, 20A SINGLE POLE SWITCH
- T_R – THERMOSTAT
- LIGHTING FIXTURE TYPE AS INDICATED
- FLOOD LIGHTING FIXTURE TYPE AS INDICATED
- SINGLE PHASE MOTOR
- THREE PHASE MOTOR
- GENERATOR RECEPTACLE
- M – METER

NOT FOR CONSTRUCTION

No.	Description	Date	By
0	ISSUED FOR TENDER	MAR 17/23	TSL

Revision or Issue

TOWN OF STRATFORD

COMMUNITY CAMPUS

SITE SERVICING

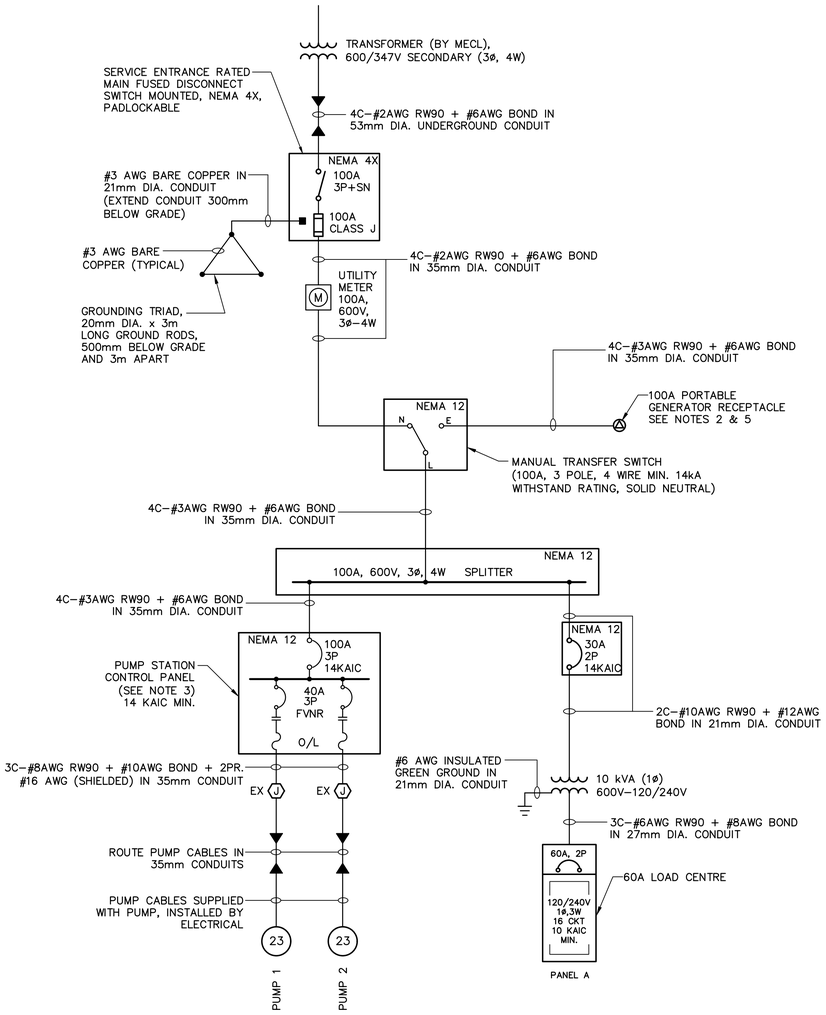
ELECTRICAL

LIFT STATION PLAN & SECTIONS

PHASE 1

CBCL

CBCL No 222617.00	Contract No 222617.00
Date MAR. 2023	Scale AS NOTED
Designed MEF	Drawn MEF
Checked MWC	Approved
Sheet No 5 of 6	
Drawing No E05	



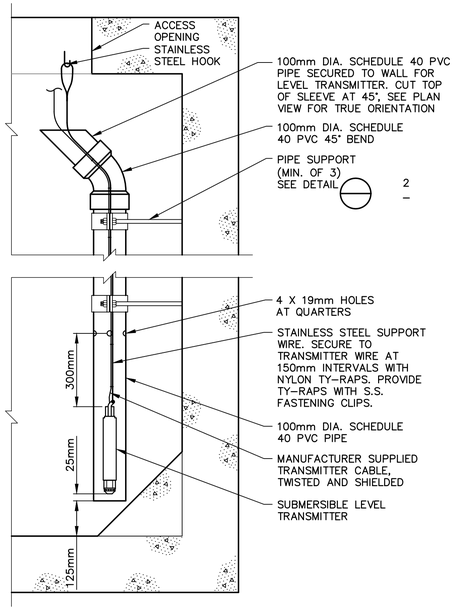
SINGLE LINE DIAGRAM
N.T.S.

REMARKS	DESIGNATION	LOAD PH A	LOAD PH B	CIR. No.	BKR		BKR	CIR. No.	LOAD PH A	LOAD PH B	DESIGNATION	REMARKS
	LIGHTS – INTERIOR	100		1	15A		15A	2	150		RECEPTACLE	
	LIGHTS – EXTERIOR		100	3	15A		15A	4		1000	ELECTRIC HEATER (MECHANICAL SIDE)	
	ELECTRIC HEATER (ELECTRICAL SIDE)	1000		5	15A		15A	6	50		FLOW METER	
	VENTILATION FAN (ELECTRICAL SIDE)		150	7	15A		15A	8		150	RECEPTACLE	②
	SPARE			9	15A		15A	10			SPARE	
	SPACE			11				12			SPACE	
	SPACE			13				14			SPACE	
	SPACE			15				16			SPACE	

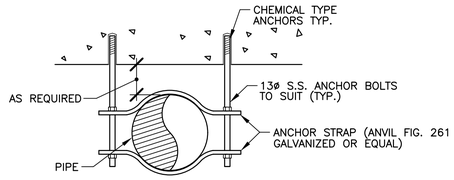
POWER: 120/240, 1P, 3W
No. OF CCTS.: 16
PANEL: PANEL A
LOCATION: EQUIPMENT ENCLOSURE
FED FROM: TRANSFORMER
SYM. I.C.: 10,000 AMPS
MAINS: 60A AMPS
ENTER AT: – MTG. –

PHASE A – TOTAL
PHASE B – TOTAL
TOTAL LOAD: _____ KW. _____ AMP.
SOURCE:
FEEDER:

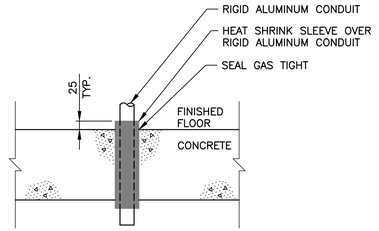
REMARKS: ① PANEL c/w MAIN BREAKER
② PANEL GFCI BREAKER



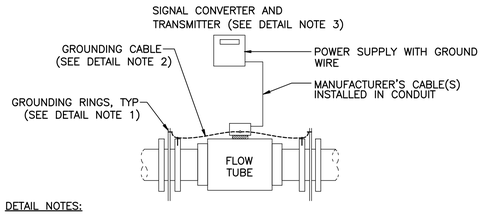
1 DETAIL– WET WELL LEVEL TRANSMITTER
N.T.S.



2 DETAIL– PIPE SUPPORT
N.T.S.



3 DETAIL– TYPICAL CONDUIT STUB UP AND HEAT SHRINK SLEEVE
N.T.S.



DETAIL NOTES:

1. MAGNETIC FLOW METERS SHALL BE INSTALLED WITH GROUNDING RINGS AND PROPER GROUNDING.
2. GROUNDING CABLE SHALL BE #10 AWG INSULATED. IF THE LENGTH OF CABLE EXCEEDS 1.8m IT SHALL BE INSTALLED IN A 21mm CONDUIT.
3. THE SIGNAL CONVERTER AND TRANSMITTER SHALL BE REMOTELY MOUNTED. REFER TO DRAWINGS FOR TRANSMITTER LOCATIONS.
4. FOR SPECIAL CASES SUCH AS PIPELINES WITH CATHODIC PROTECTION, INSTALL GROUNDING PER MANUFACTURER'S RECOMMENDATIONS.

4 DETAIL– MAGNETIC FLOW METER INSTALLATION (REMOTE TRANSMITTER)
NTS

NOTES:

1. SEE ALL DRAWINGS FOR ADDITIONAL NOTES & DETAILS.

NOT FOR CONSTRUCTION

No.	Description	Date	By
0	ISSUED FOR TENDER	MAR 17/23	TSL

Revision or Issue

TOWN OF STRATFORD

COMMUNITY CAMPUS

SITE SERVICING

ELECTRICAL

LIFT STATION SINGLE LINE DIAGRAM & DETAILS

PHASE 1

CBCL

CBCL No 222617.00	Contract No 222617.00
Date MAR. 2023	Scale AS NOTED
Designed MEF	Drawn MEF
Checked MWC	Approved
Sheet No 6 of 6	
Drawing No E06	