

STURGEON LAKE CREE NATION CHILD AND FAMILY SERVICES SOCIETY

STURGEON LAKE, AB

TEMPORARY MODULAR OFFICE COMPLEX

PROJECT NO. MISC-0396

ISSUED FOR TENDER



STURGEON LAKE CFS TEMPORARY MODULAR OFFICE COMPLEX – SITE LOCATION

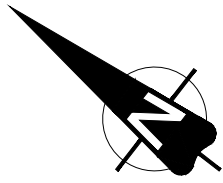
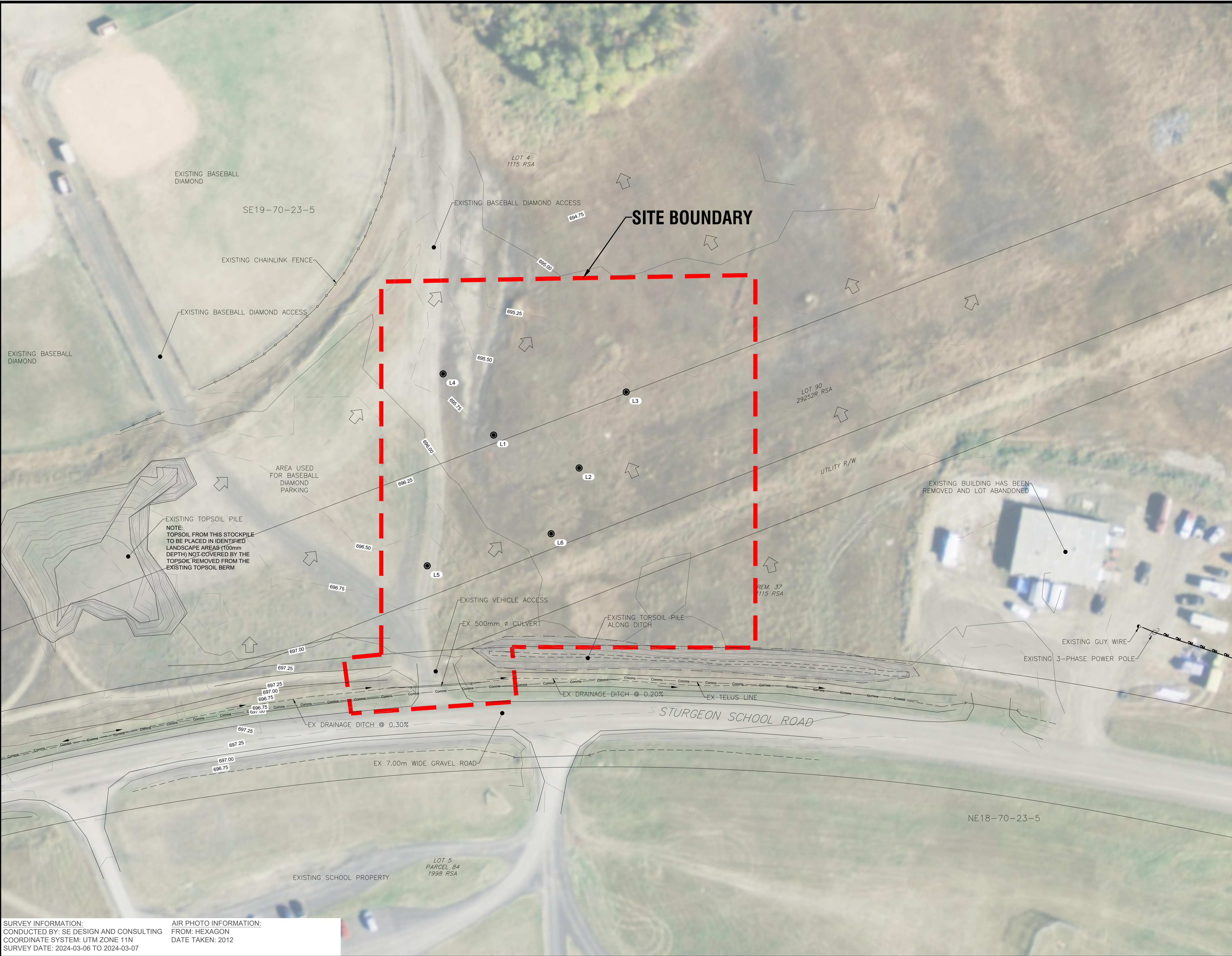
LIST OF DRAWINGS

DWG. 01	EXISTING SITE PLAN AND TOPOGRAPHY
DWG. 02	PROPOSED SITE PLAN
DWG. 03	SITE GRADING PLAN
DWG. 04	SECTION A-A - BUILDING STA. 1+000 TO 1+110
DWG. 05	SECTION B-B - BUILDING STA. 2+000 TO 2+150
DWG. 06	SECTION C-C - ACCESS ROAD STA. 3+000 TO 3+150
DWG. 07	SECTION D-D - DITCH STA. 4+000 TO 4+150
DWG. 08	SERVICING SECTION E-E - STA. 1+000 TO 1+050 AND SECTION F-F - STA. 2+000 TO 2+050
DWG. 09	DETAILS 1/4
DWG. 10	DETAILS 2/4
DWG. 11	DETAILS 3/4
DWG. 12	DETAILS 4/4



SE DESIGN AND CONSULTING INC.

ENGINEERS • CONSULTANTS • GEOMATICS



SURVEY INFORMATION:
CONDUCTED BY: SE DESIGN AND CONSULTING
COORDINATE SYSTEM: UTM ZONE 11N
SURVEY DATE: 2024-03-06 TO 2024-03-07

AIR PHOTO INFORMATION:
FROM: HEXAGON
DATE TAKEN: 2012

LEGEND	
EXISTING	
OVERHEAD LINE	— OH — OH —
FENCE LINE	— — — — —
DITCH	— — — — —
OVERLAND STORM FLOW	— — — — —
POWER POLE	— — — — —
POLE GUY WIRE	— — — — —
BURIED POWER LINE	— — — — —
COMMUNICATION LINE	— — — — —
BOREHOLE LOCATION	● L1

PERMIT TO PRACTICE

SE DESIGN AND CONSULTING INC.

RM Signature: *[Signature]*

RM APEGA ID#: 53996

Date: 2024-06-04

PERMIT NUMBER: P 8875

The Association of Professional Engineers and Geoscientists of Alberta (APEGA)

PROFESSIONAL ENGINEER

ALBERTA

CHAD R. FLETCHER

Member #79877

2024-06-04

NO.	DATE	DESCRIPTION	BY	APP.
2	2024-06-04	ISSUED FOR TENDER	BDW	
1	2024-05-22	ISSUED FOR 90% REVIEW	BDW	
REVISIONS				

SCALE	PROJECT No.
1:500	MISC-0396
DESIGNED BY	DRAWN BY
BDW	BDW
CHECKED BY	DATE
CF	MAY 31, 2024

PREPARED FOR

PREPARED BY

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STURGEON LAKE CREE NATION CFS SOCIETY

TEMPORARY MODULAR OFFICE COMPLEX

SE19 70-23-5

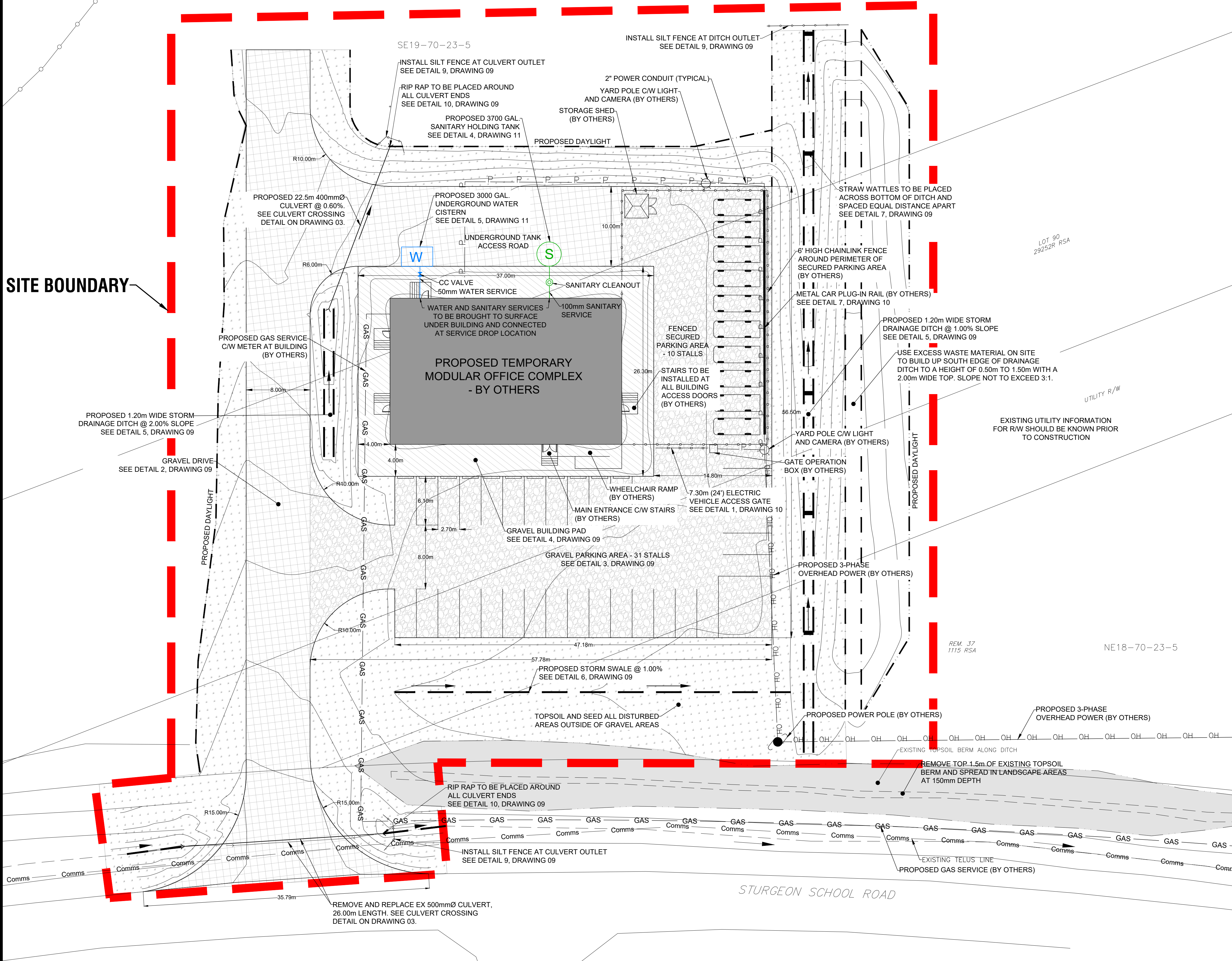
LOT 5, PLAN 1115 RSA

EXISTING SITE PLAN AND TOPOGRAPHY

SHEET 2 OF 13

DWG. No. 01

SITE BOUNDARY



GENERAL NOTES:

1. THE LOCATION AND PROTECTION OF ALL UTILITIES SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR WHETHER THE UTILITY IS SHOWN ON THE DRAWING OR NOT. THE LOCATION OF THE UTILITIES ON THE DRAWING ARE APPROXIMATE ONLY. UTILITY SAFETY PARTNERS SHALL BE CONTACTED AT 1-800-242-3447 AND ARRANGEMENTS MADE FOR LOCATIONS PRIOR TO ANY EXCAVATION.
2. ALL CONSTRUCTION TO MEET OR EXCEED ALBERTA STANDARDS FOR MUNICIPAL WATERWORKS, WASTEWATER, AND STORM DRAINAGE SYSTEMS, LATEST EDITION.
3. ALL ELEVATIONS ARE GEODETIC AND RELATED TO CANADA CGG2013A (NAD 83).
4. ALL COORDINATES ARE RELATED TO NAD 83 UTM ZONE 11 NORTH.
5. VERIFY THAT THE LAYOUT INFORMATION MATCHES EXISTING FEATURES. ADVISE ENGINEER IMMEDIATELY OF ANY VARIANCES.
6. CONTRACTOR TO LOCATE ALL SHALLOW UTILITIES WITHIN THE PROJECT BOUNDARY PRIOR TO EXCAVATING AND CONFIRM NO CONFLICT.
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8. CONTRACTOR TO MAINTAIN PUBLIC ACCESS TO EXISTING FACILITIES AROUND SITE OR PROVIDE TEMPORARY ALTERNATE ACCESS DURING CONSTRUCTION ACTIVITIES.
9. SLOPE GRADES NOT TO EXCEED 3:1.
10. CONTRACTOR TO COORDINATE CONSTRUCTION ACTIVITIES WITH STURGEON LAKE CREE NATION, SUCH THAT THEY DO NOT INTERFERE WITH ANY SCHEDULED TOURNAMENTS, EVENTS, ETC. AT EXISTING BASEBALL DIAMONDS.

LEGEND

PROPOSED

OVERHEAD LINE

FENCE LINE

DITCH

GRADE BREAK - TOP

GRADE BREAK - BOTTOM

POWER POLE

LIGHT POLE

CSP CULVERT

WATER CISTERN

SANITARY TANK

GRAVEL DRIVE

STRUCTURE (450mm)

GRAVEL PARKING

STRUCTURE (300mm)

GRAVEL BUILDING PAD

STRUCTURE (150mm)

LANDSCAPING AREA

PERMIT TO PRACTICE

SE DESIGN AND CONSULTING INC.

RM Signature

RM APEGA ID#

Date

2024-06-04

PERMIT NUMBER: P 8875

The Association of Professional Engineers and Geoscientists of Alberta (APEGA)

PROFESSIONAL ENGINEER

ALBERTA

DAVID R. FLETCHER

Member # 79877

2024-06-04

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SCALE

1:250

DESIGNED BY

BDW

CHECKED BY

CF

PROJECT No.

MISC-0396

DRAWN BY

BDW

DATE

MAY 31, 2024

PREPARED FOR

STURGEON LAKE Child & Family Services Inc.

PREPARED BY

SE DESIGN AND CONSULTING INC.

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STURGEON LAKE CREE NATION CFS SOCIETY

TEMPORARY MODULAR OFFICE COMPLEX

SE19 70-23-5

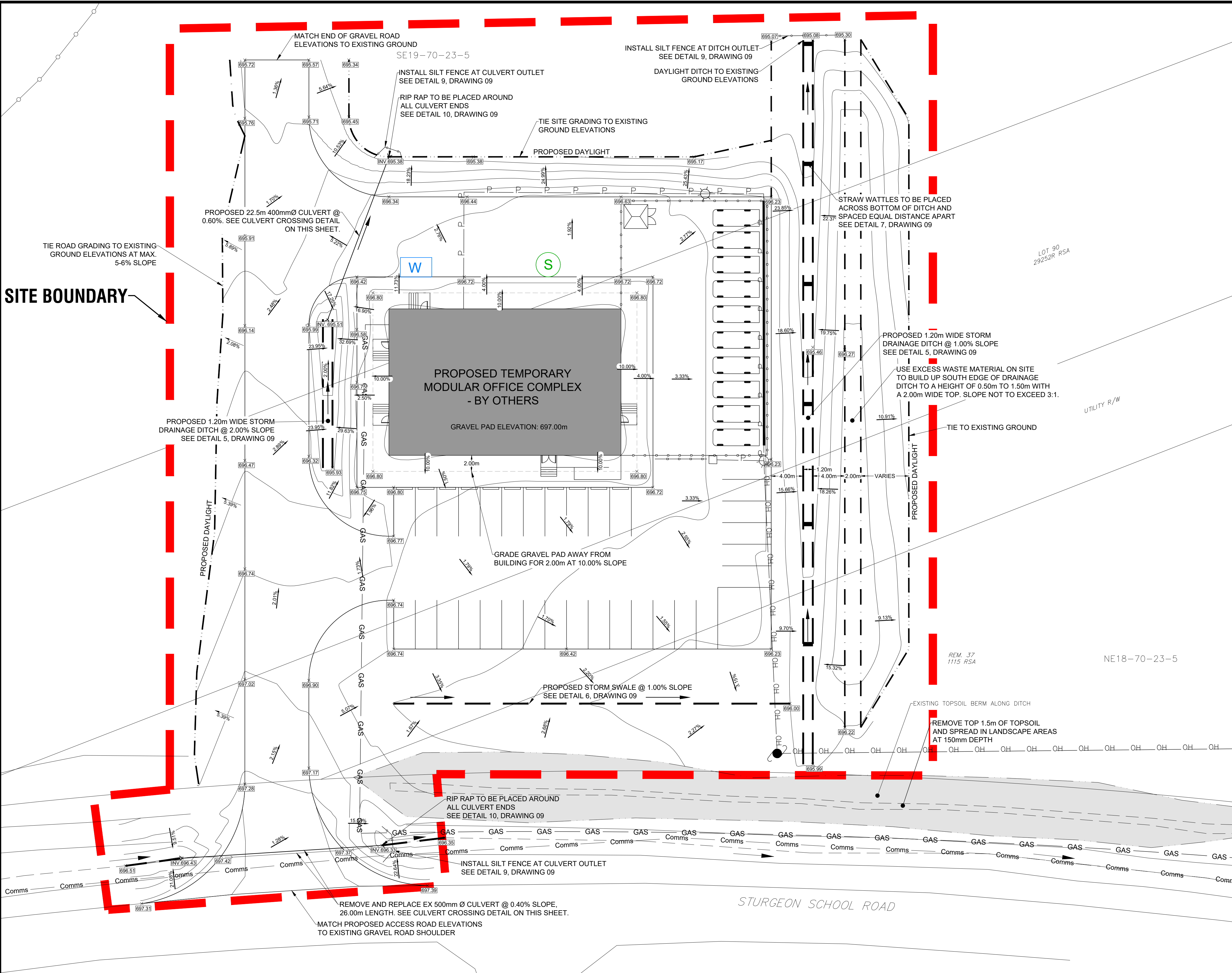
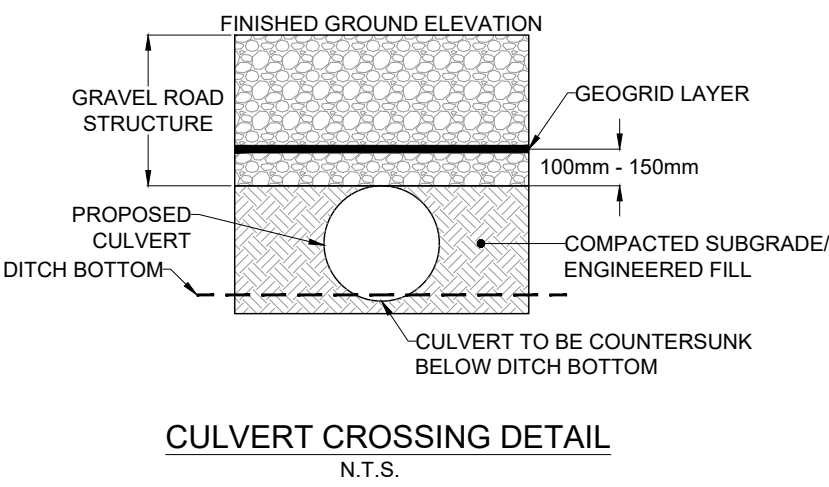
LOT 5, PLAN 1115 RSA

PROPOSED SITE PLAN

SHEET 3 of 13

DWG. No.

02



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LEGEND

PROPOSED

OVERHEAD LINE
FENCE LINE
DITCH
SWALE
POWER POLE
LIGHT POLE
ELEVATION
SLOPE

WATER CISTERN
SANITARY TANK
W
S

PERMIT TO PRACTICE
SE DESIGN AND CONSULTING INC.
RM Signature
RM APEGA ID#
Date
PERMIT NUMBER: P 8875
The Association of Professional Engineers and Geoscientists of Alberta (APEGA)

PROFESSIONAL ENGINEER
SEAN R. FLETCHER
Member #79877
2024-06-04

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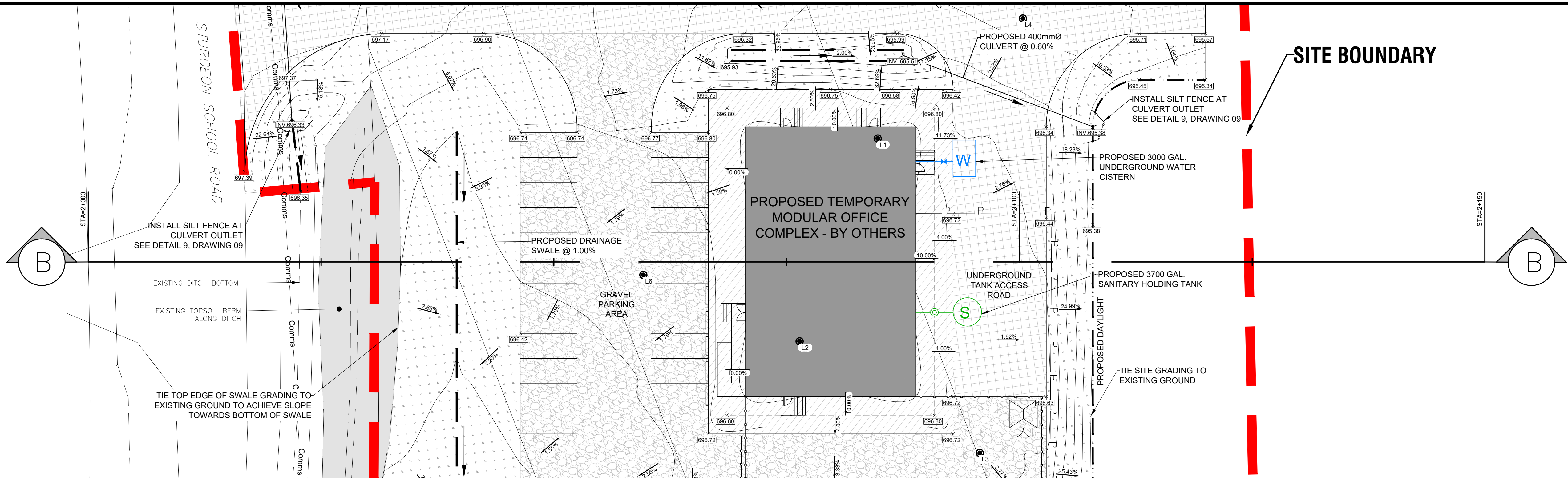
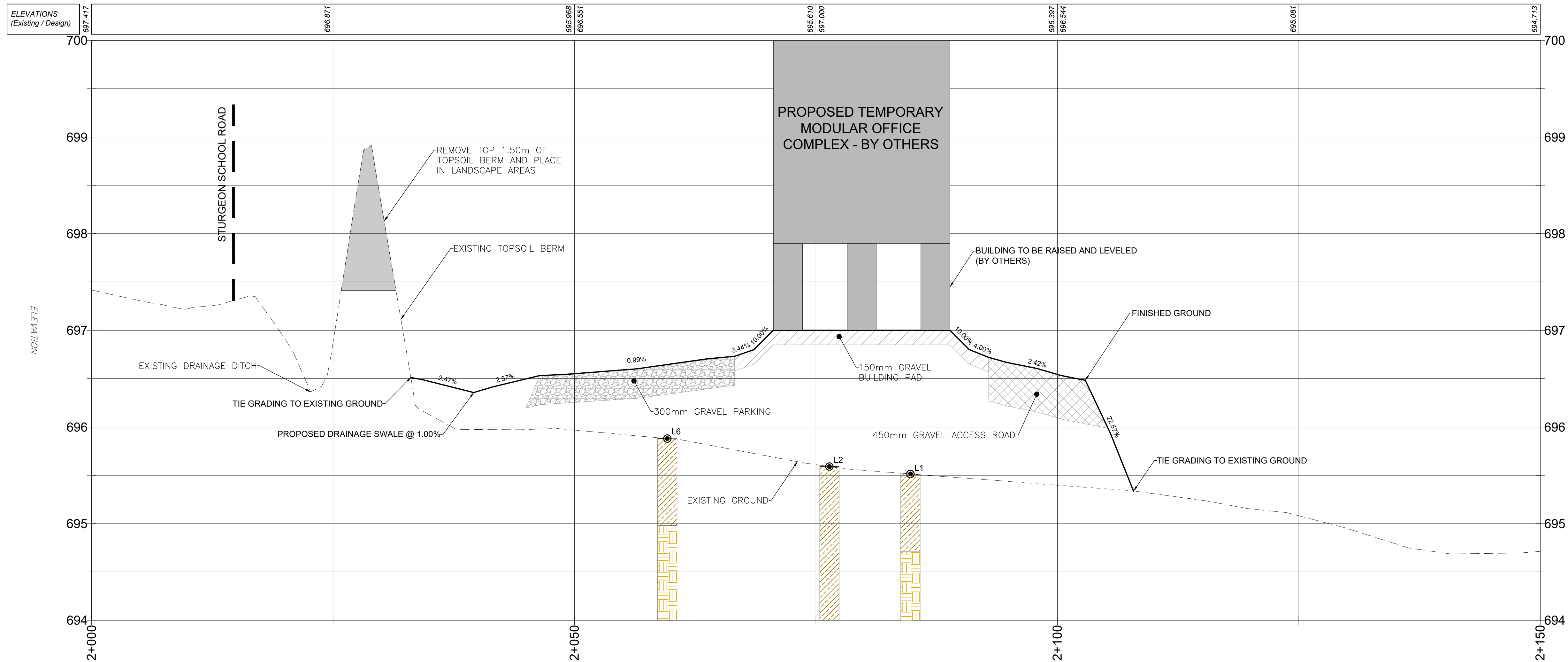
PREPARED FOR
STURGEON LAKE Child & Family Services Inc.

PREPARED BY
SE DESIGN AND CONSULTING INC.
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STURGEON LAKE CREE NATION CFS SOCIETY
TEMPORARY MODULAR OFFICE COMPLEX
SE19 70-23-5
LOT 5, PLAN 1115 RSA
SITE GRADING PLAN

SHEET 4 OF 13 | DWG. No. 03

T:\7 - MISCELLANEOUS\MISC-0396 - STURGEON LAKE CFS TEMPORARY OFFICES\4 WORKING DRAWINGS\STURGEON LAKE CFS BUILDING.DWG



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BOREHOLE LEGEND	
	TOPSOIL
	SAND/CLAY FILL
	CLAY
	SAND
	CLAY TILL

LEGEND	
OVERHEAD LINE	PROPOSED
FENCE LINE	STRUCTURE (450mm)
DITCH	GRAVEL PARKING STRUCTURE (300mm)
GRADE BREAK - TOP	GRAVEL BUILDING PAD STRUCTURE (150mm)
GRADE BREAK - BOTTOM	LANDSCAPING AREA
POWER POLE	EXISTING COMM. LINE
LIGHT POLE	
CSP CULVERT	
BOREHOLE LOCATION	

PERMIT TO PRACTICE
SE DESIGN AND CONSULTING INC.

RM Signature:

RM APEGA ID#: 53996

Date: 2024-06-04

PERMIT NUMBER: P 8875
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Member #79877

2024-06-04

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VER. 1:25	
DESIGNED BY	DRAWN BY
BDW	BDW
CHECKED BY	DATE
CF	MAY 31, 2024

PREPARED FOR

PREPARED BY

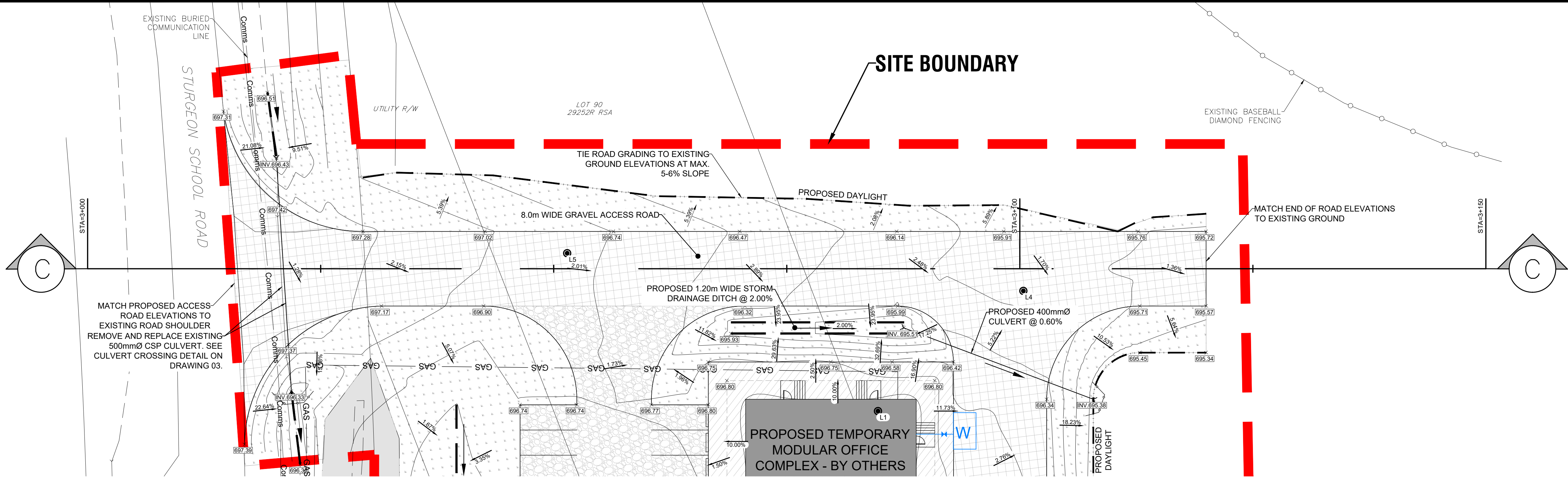
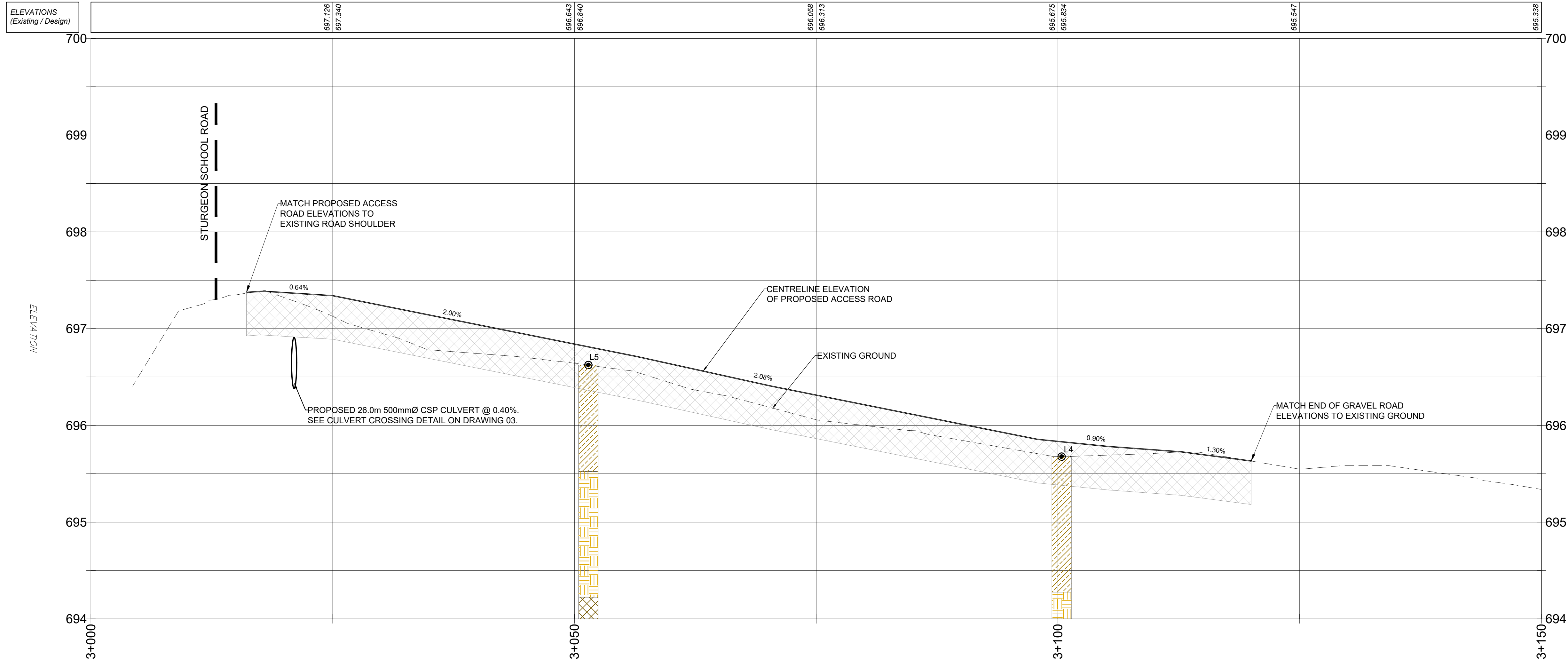
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STURGEON LAKE CREE NATION CFS SOCIETY
TEMPORARY MODULAR OFFICE COMPLEX

SE19 70-23-5
LOT 5, PLAN 1115 RSA
SECTION B-B - BUILDING
STA. 2+000 TO 2+150

SHEET 6 OF 13 | DWG. No. 05

TV7 - MISCELLANEOUS MISC-0396 - STURGEON LAKE CFS TEMPORARY OFFICES 4 WORKING DRAWINGS\STURGEON LAKE CFS BUILDING.DWG



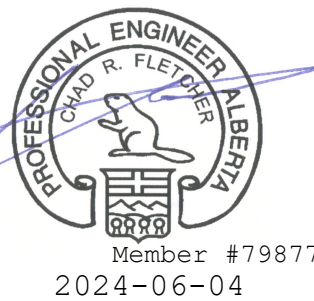
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BOREHOLE LEGEND	
	TOPSOIL
	SAND/CLAY FILL
	CLAY
	SAND
	CLAY TILL

LEGEND	
PROPOSED OVERHEAD LINE	
FENCE LINE	
DITCH	
GRADE BREAK - TOP	
GRADE BREAK - BOTTOM	
POWER POLE	
LIGHT POLE	
CSP CULVERT	
GRAVEL DRIVE STRUCTURE (450mm)	
GRAVEL PARKING STRUCTURE (300mm)	
GRAVEL BUILDING PAD STRUCTURE (150mm)	
LANDSCAPING AREA	
EXISTING COMM. LINE	

PERMIT TO PRACTICE
SE DESIGN AND CONSULTING INC.
RM Signature:
RM APEGA ID#: 53996
Date: 2024-06-04
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The Association of Professional Engineers and Geoscientists of Alberta (APEGA)



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SCALE HOR. 1:250 VER. 1:25	PROJECT No. MISC-0396
DESIGNED BY BDW	DRAWN BY BDW
CHECKED BY CF	DATE MAY 31, 2024

PREPARED FOR



PREPARED BY

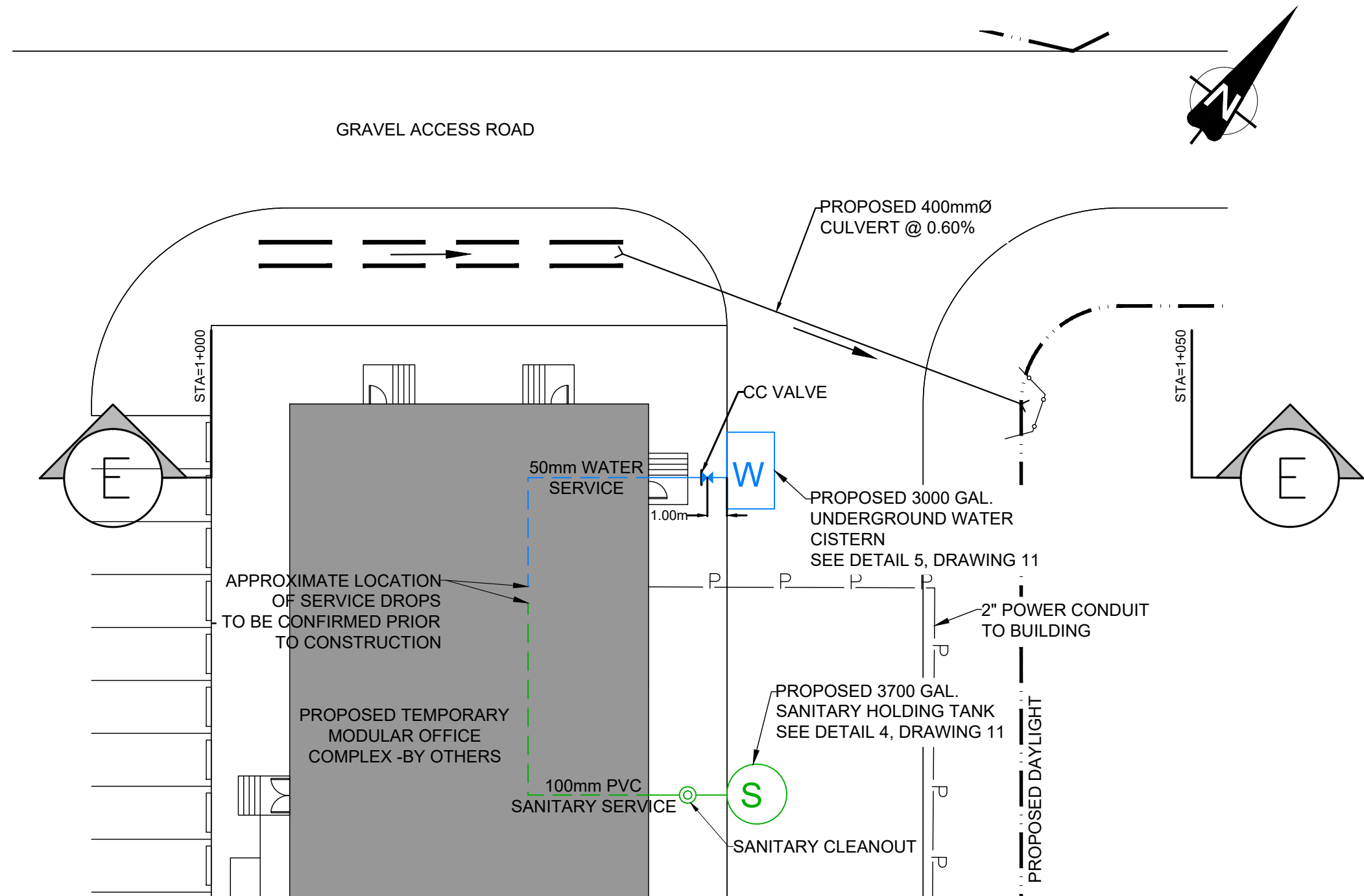
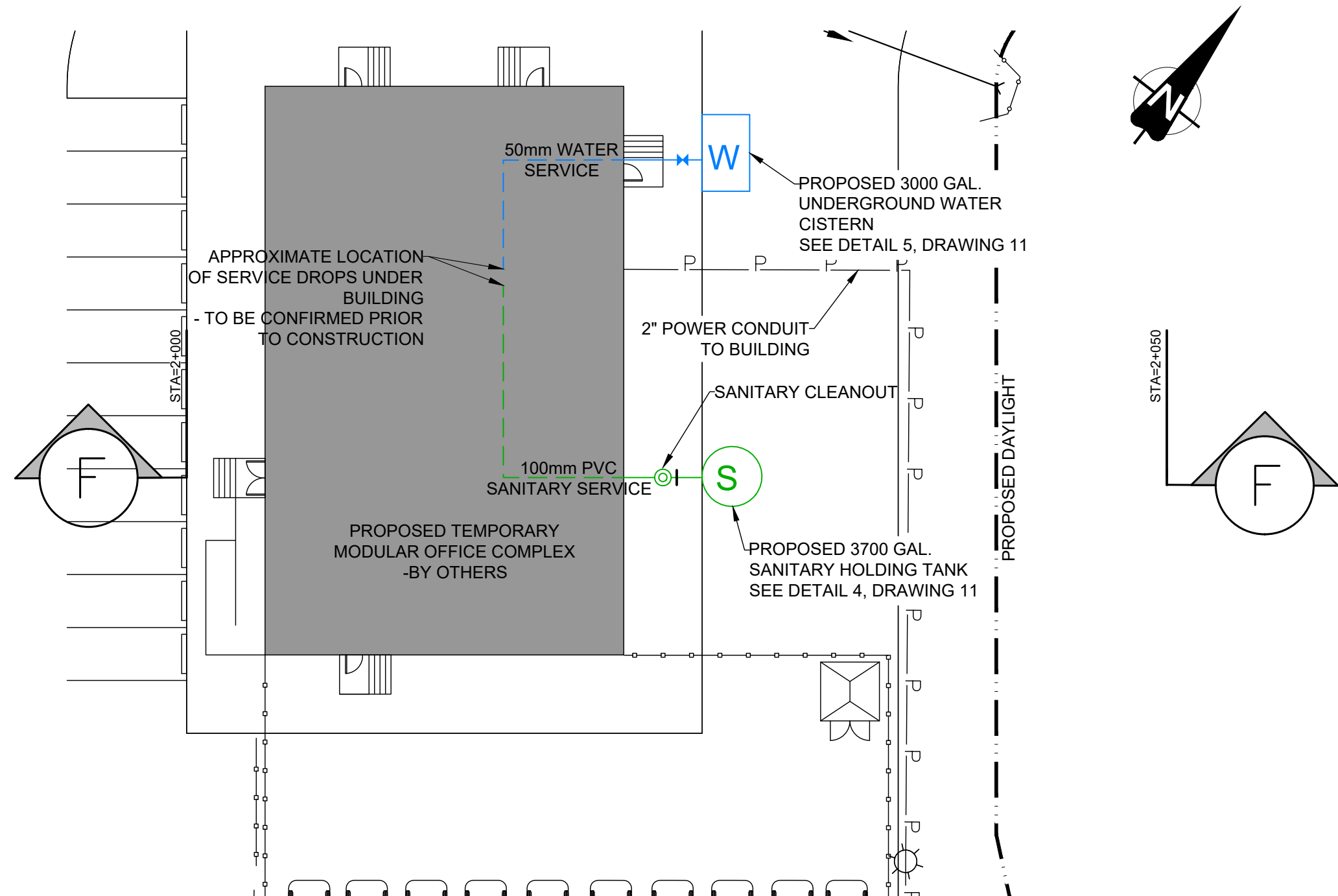
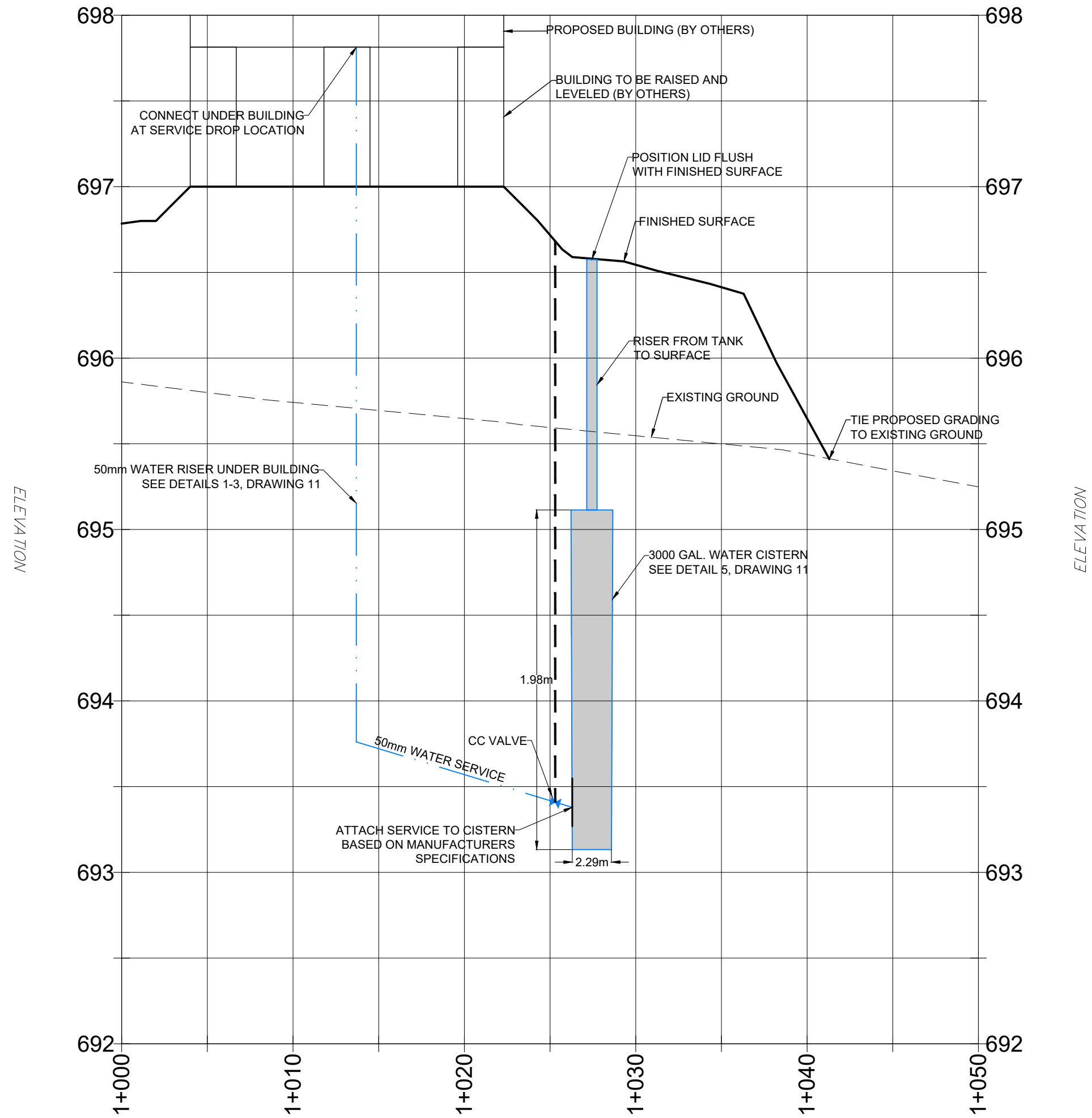


STURGEON LAKE CREE NATION CFS SOCIETY
TEMPORARY MODULAR OFFICE COMPLEX

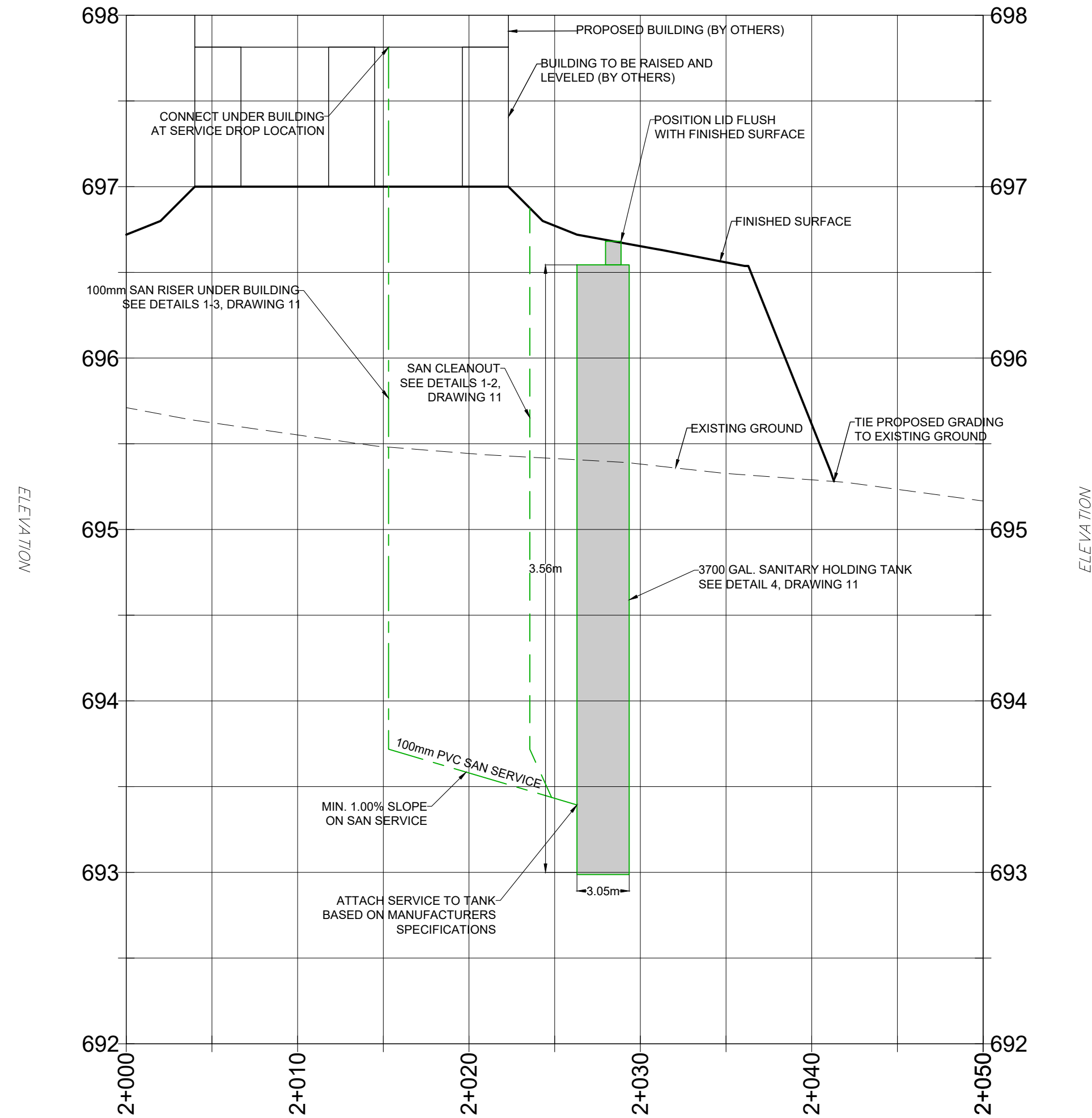
SE19 70-23-5
LOT 5, PLAN 1115 RSA
SECTION C-C - ACCESS ROAD
STA. 3+000 TO 3+150

SHEET 7 OF 13 DWG. No. 06

T:\7- MISCELLANEOUS\MISC-0396 - STURGEON LAKE CFS TEMPORARY OFFICES\4-WORKING DRAWINGS\STURGEON LAKE CFS BUILDING.DWG



SECTION E-E: WATER SERVICING



SECTION F-F: SANITARY SERVICING

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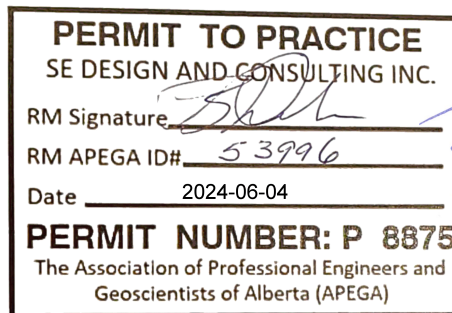
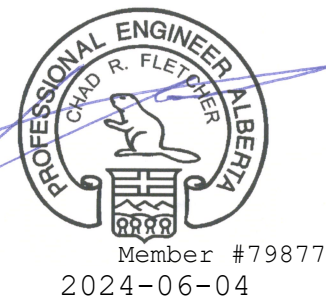
BEDDING AND BACKFILL:

1. ALL PIPE BEDDING IS CLASS 'B' GRANULAR SAND BEDDING UNLESS OTHERWISE NOTED.
2. ALL ROADWAY BACKFILL TO BE COMPACTED AS CLASS 1 BACKFILL
3. ALL SITE BACKFILL TO BE COMPACTED AS CLASS 2 BACKFILL

SERVICES:

1. ALL SEWER SERVICES ARE 100mm DR35 PVC PIPE TO CSA B182.1.
2. WATER AND SEWER SERVICES ARE DESIGNED TO MEET THE REQUIREMENTS OF THE PROPOSED BUILDING.
3. CURB STOPS SHALL BE COPPER CURB BALL VALVE WITH STOP AND DRAIN. CURB BOXES SHALL BE EPOXY COATED AND THE ROD SHALL BE STAINLESS STEEL.
4. A MINIMUM OF 3.0m OF COVER SHALL MAINTAINED FOR ALL WATER AND SANITARY SERVICES, INSULATION AND HEAT TRACE TO BE INSTALLED WHERE MINIMUM COVER CAN NOT BE PROVIDED.

LEGEND	
OVERHEAD LINE	PROPOSED
FENCE LINE	
DITCH	
GRADE BREAK - TOP	
GRADE BREAK - BOTTOM	
WATER SERVICE	
SANITARY SERVICE	
LIGHT POLE	
CSP CULVERT	



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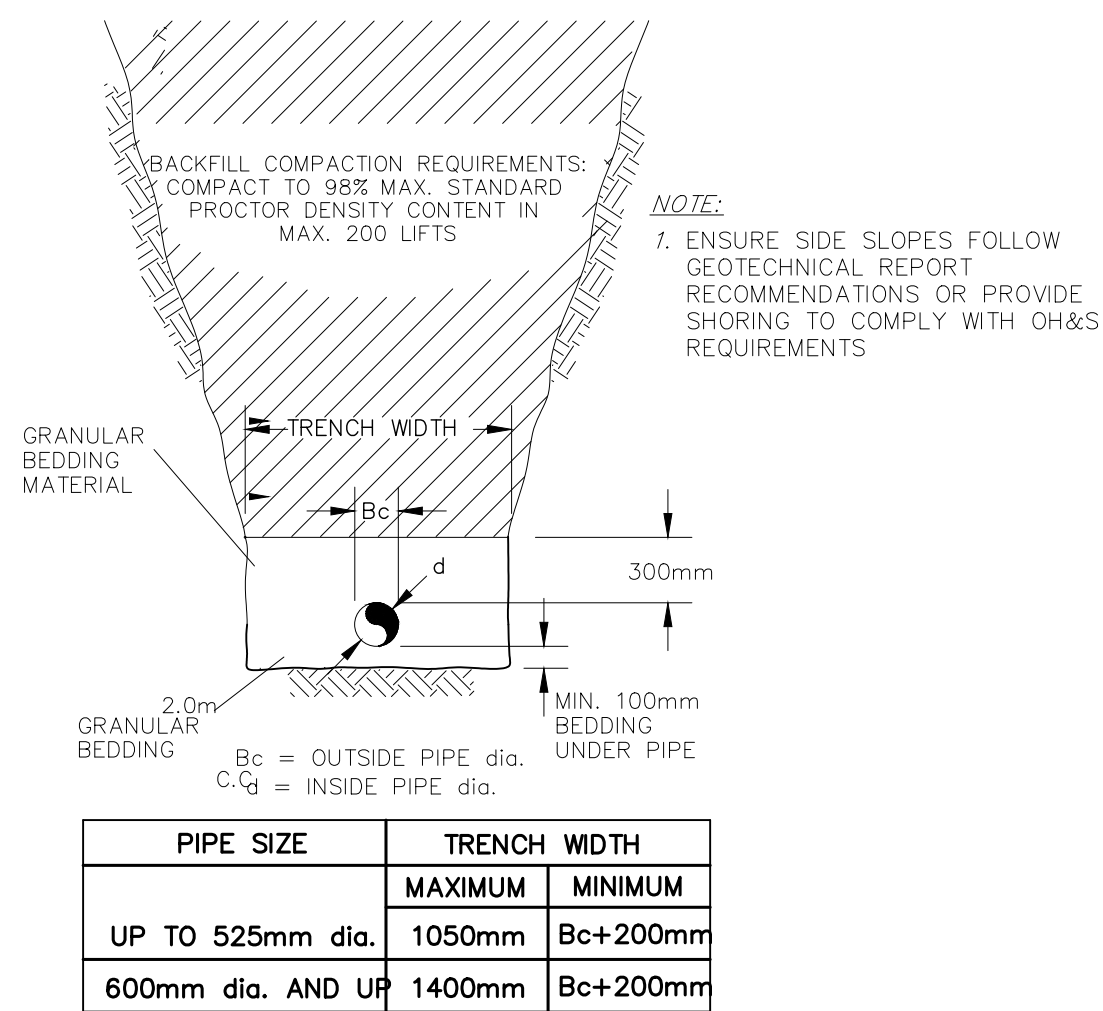


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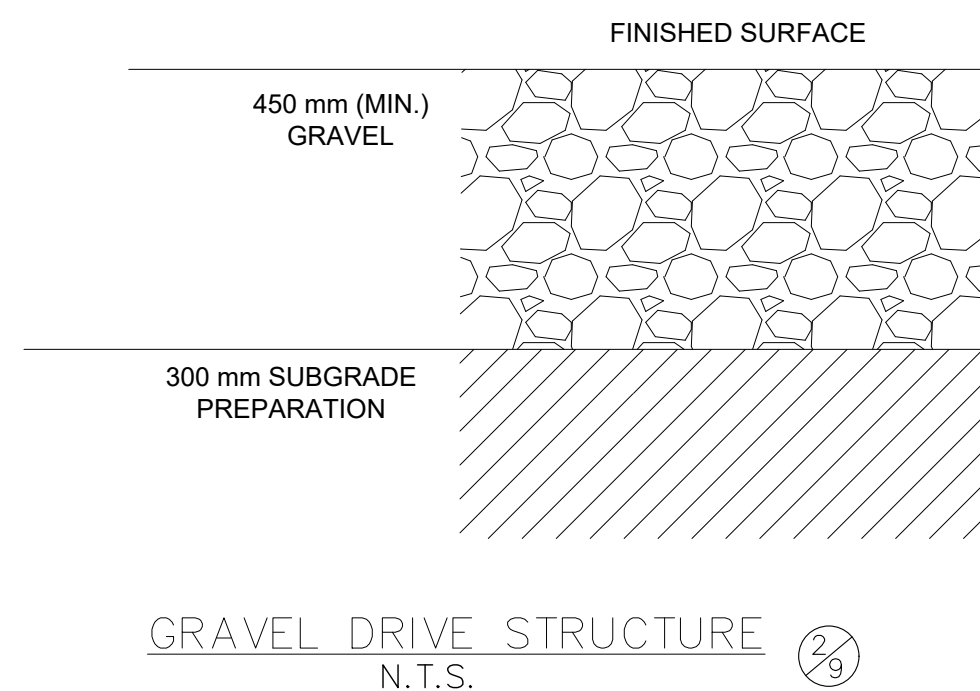


STURGEON LAKE CREE NATION CFS SOCIETY	
TEMPORARY MODULAR OFFICE COMPLEX	
SE19 70-23-5	
LOT 5, PLAN 1115 RSA	
SERVICING SECTION E-E - STA. 1+000 TO 1+050	
AND SECTION F-F - STA. 2+000 TO 2+050	
SHEET 9 of 13	DWG. No. 08

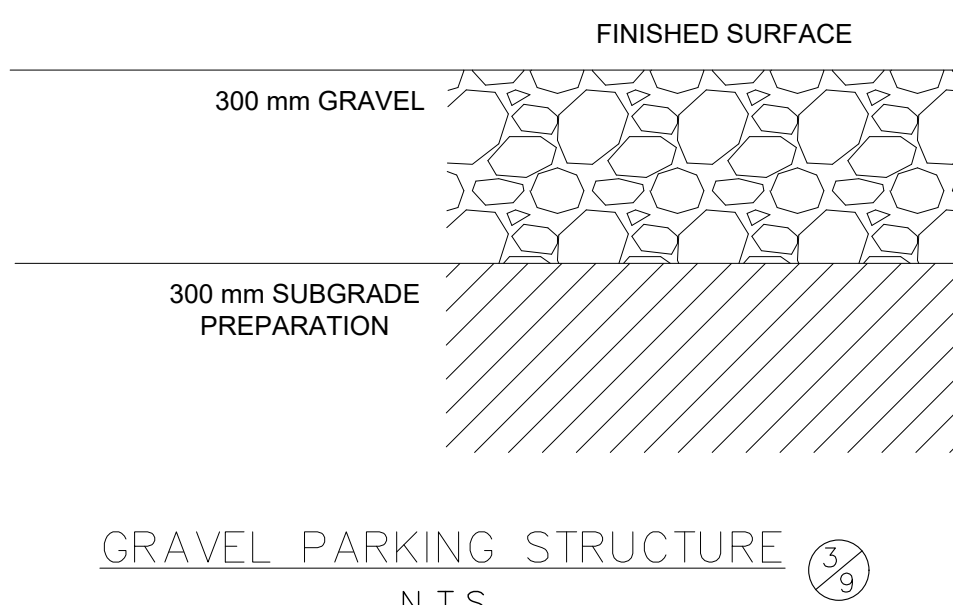
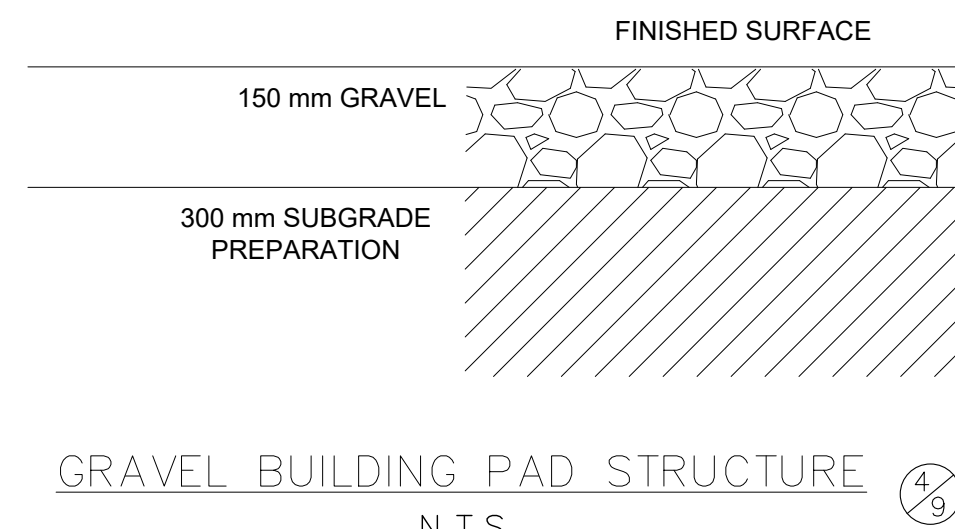
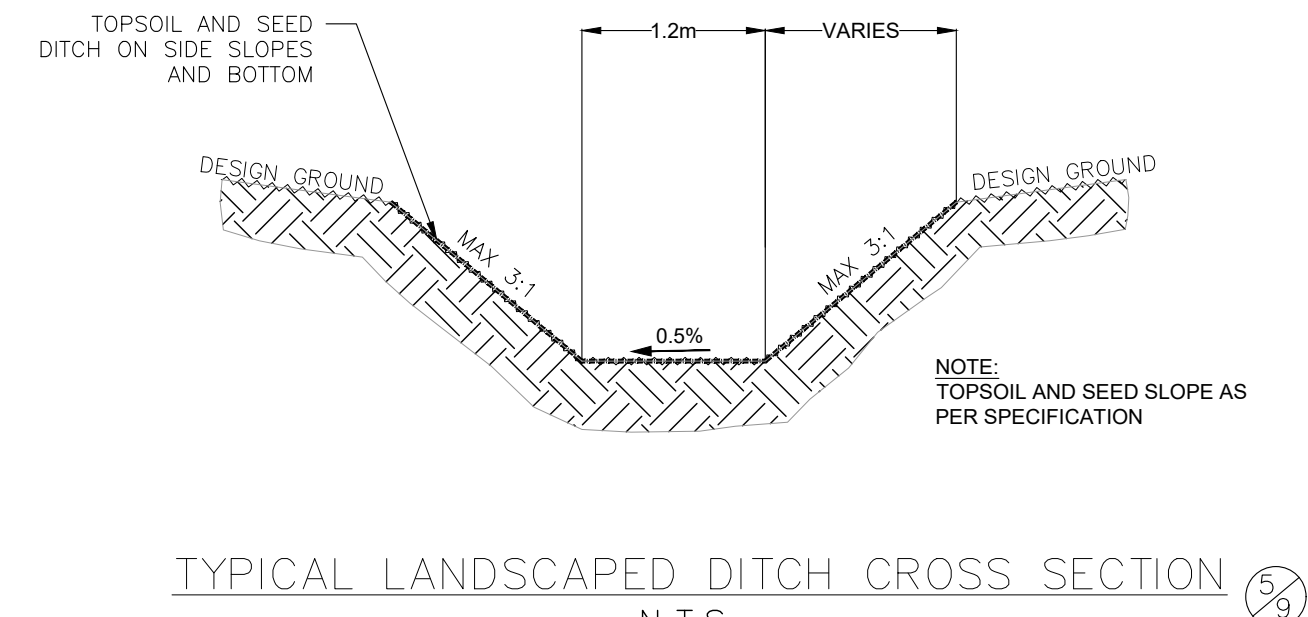
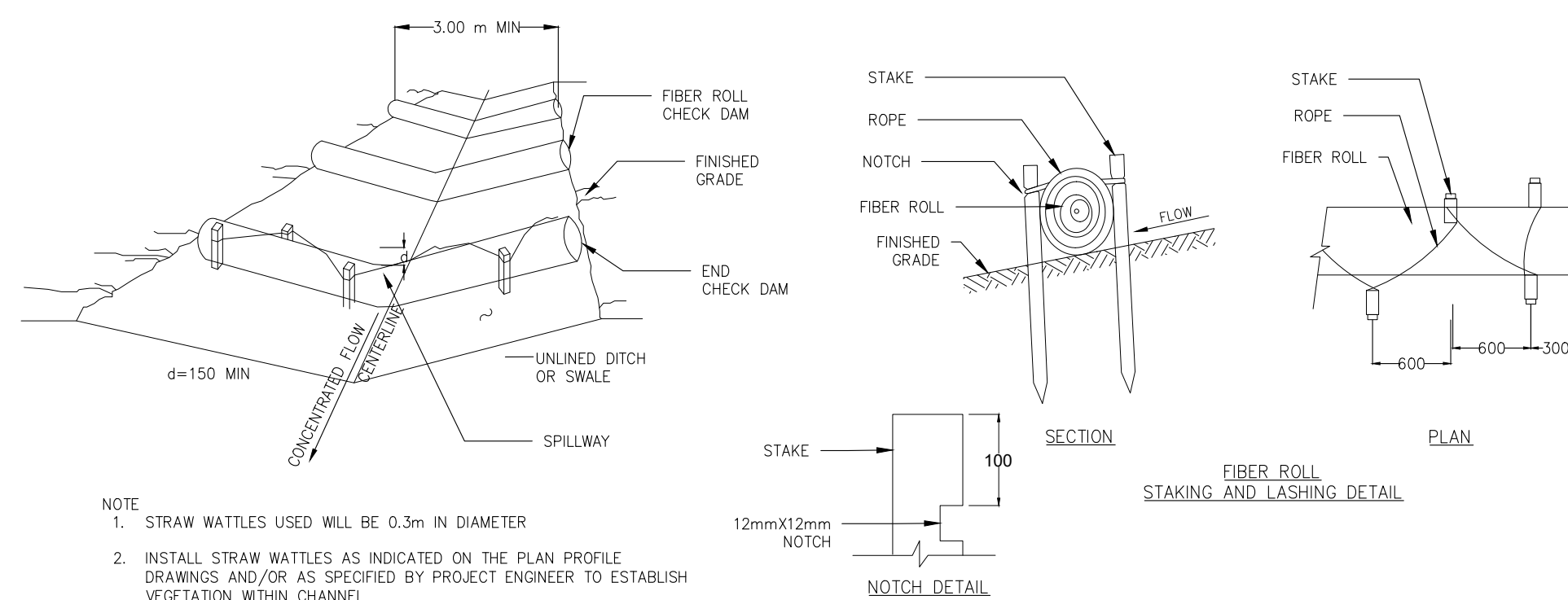
17- MISCELLANEOUS-MISC-0396 - STURGEON LAKE CFS TEMPORARY OFFICES 4-WORKING DRAWINGS-STURGEON LAKE CFS BUILDING.DWG



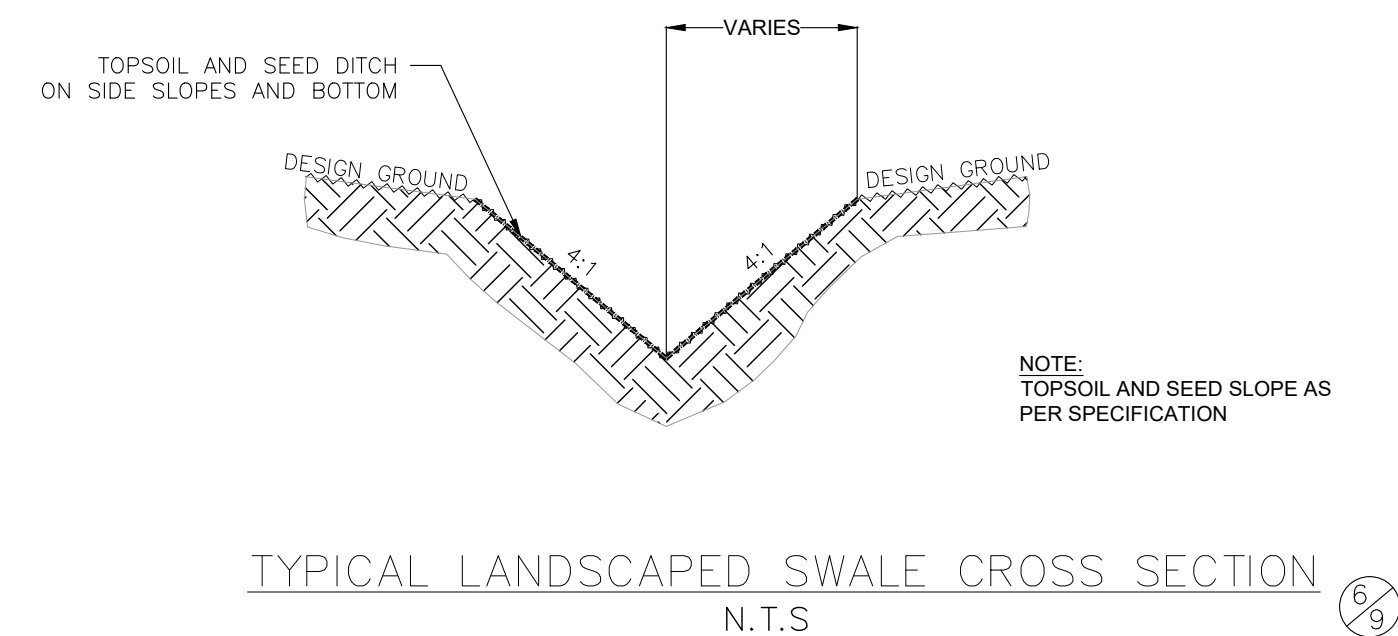
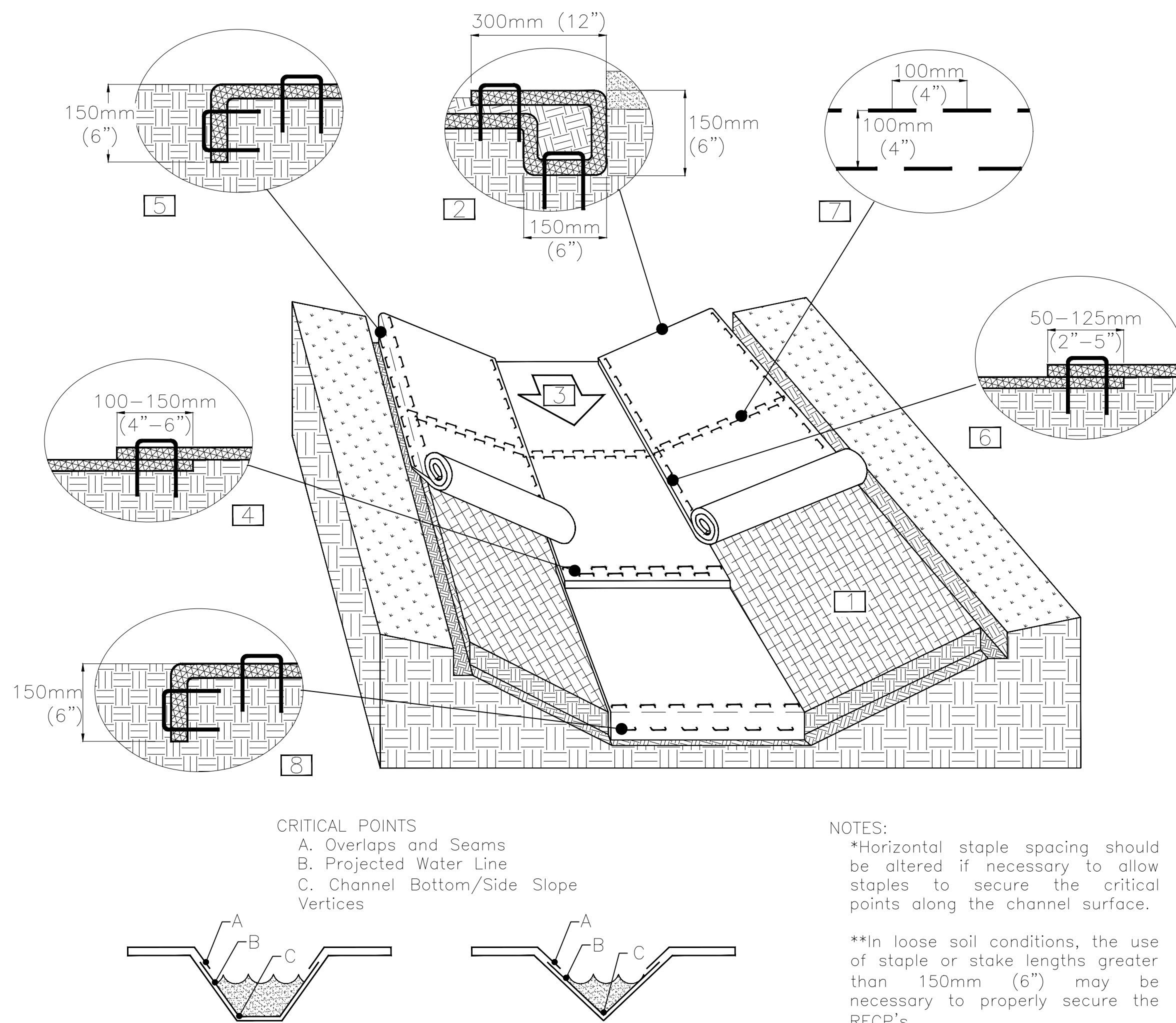
TYPICAL TRENCH AND PIPE BEDDING DETAIL 1/9
N.T.S.



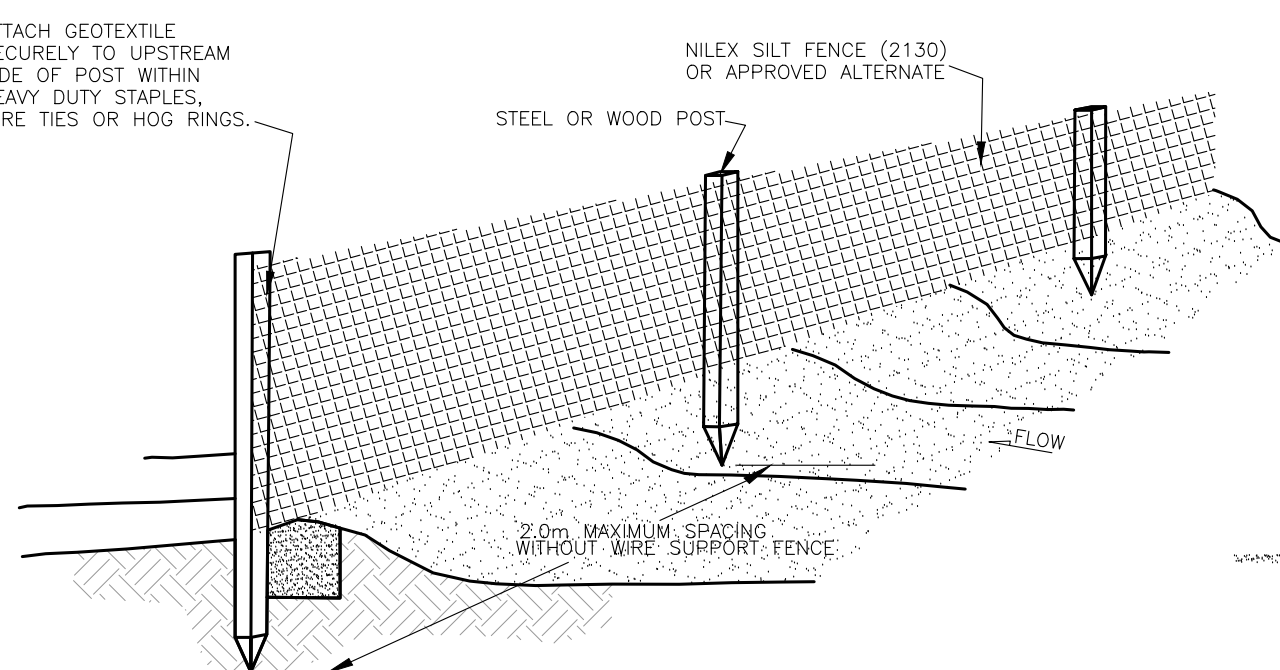
- NOTE:
1. ALL SUBGRADE TO BE COMPACTED TO MIN. 98% S.P.D.
 2. ALL GRAVEL STRUCTURES TO BE COMPACTED TO 100% S.P.D.



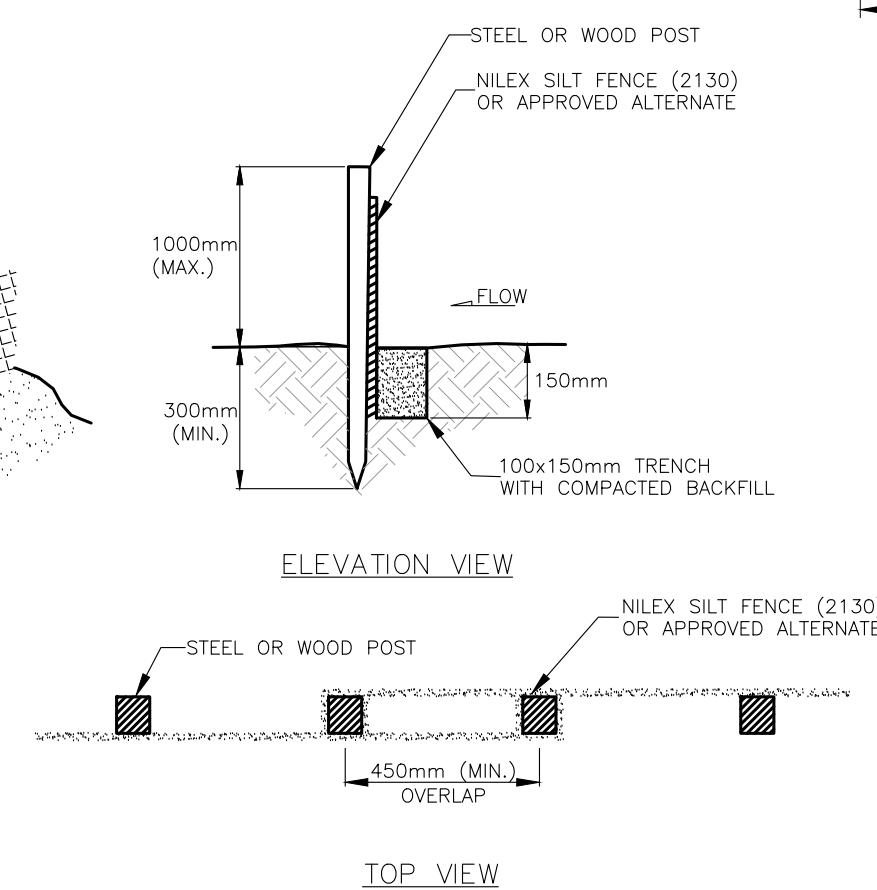
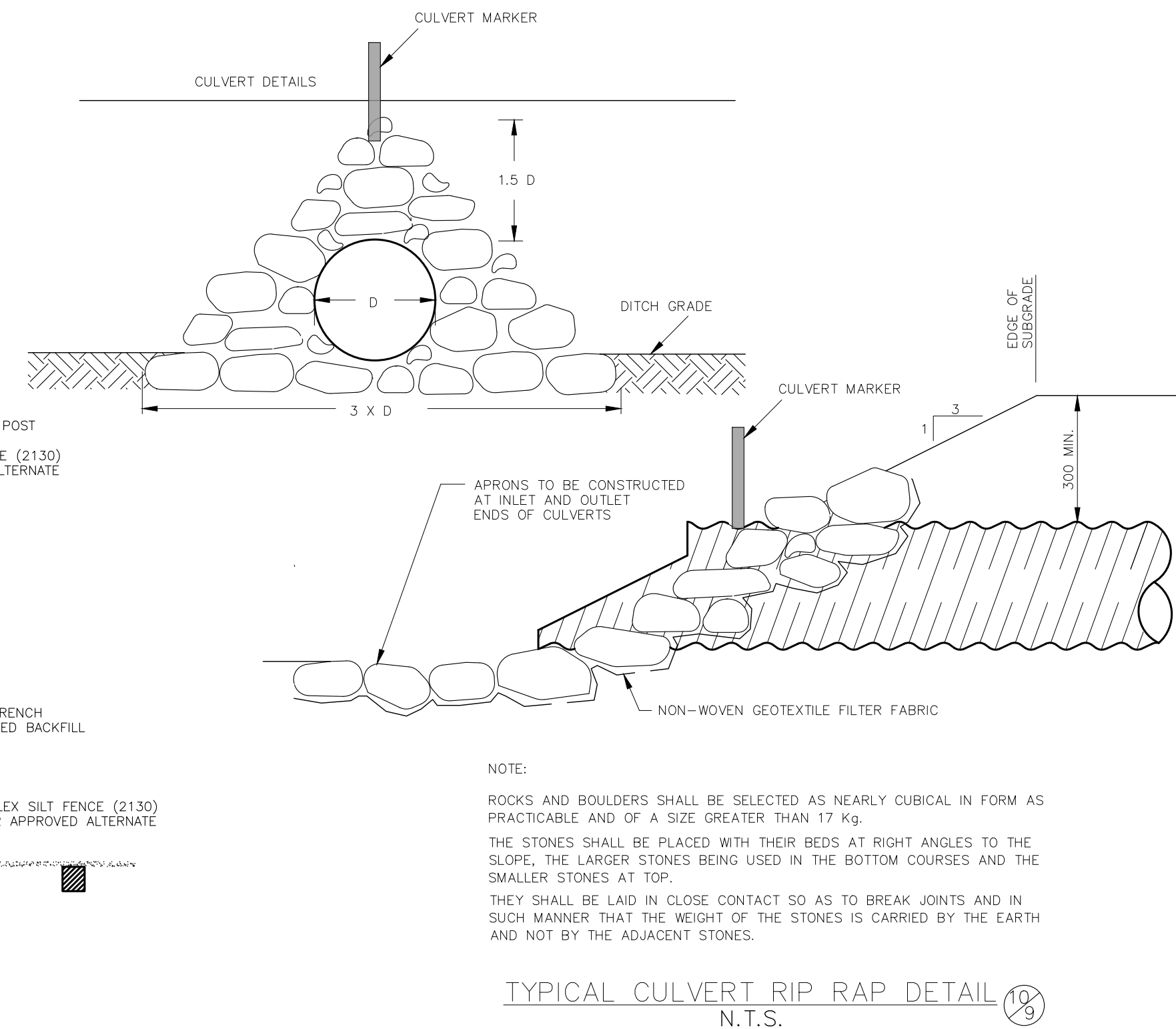
STRAW WATTLES DETAIL 7/9
N.T.S.



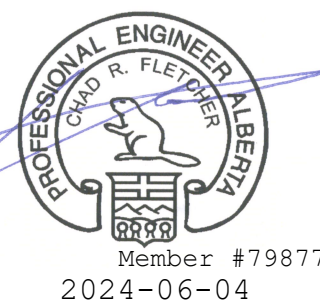
- NOTES:
- *Horizontal staple spacing should be altered if necessary to allow staples to secure the critical points along the channel surface.
- **In loose soil conditions, the use of staple or stake lengths greater than 150mm (6") may be necessary to properly secure the RECP's.



TYPICAL SILT FENCING DETAIL 9/9
N.T.S.



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RM APEGA ID#: 53996
Date: 2024-06-04
PERMIT NUMBER: P 8875
The Association of Professional Engineers and
Geoscientists of Alberta (APEGA)



NO.	DATE	DESCRIPTION	BY	APP.
2	2024-06-04	ISSUED FOR TENDER	BDW	
1	2024-05-22	ISSUED FOR 90% REVIEW	BDW	
NO.	DATE	DESCRIPTION	BY	APP.
REVISIONS				

SCALE	N.T.S.	PROJECT No.	MISC-0396
DESIGNED BY	BDW	DRAWN BY	BDW
CHECKED BY	CF	DATE	MAY 31, 2024

PREPARED FOR



PREPARED BY

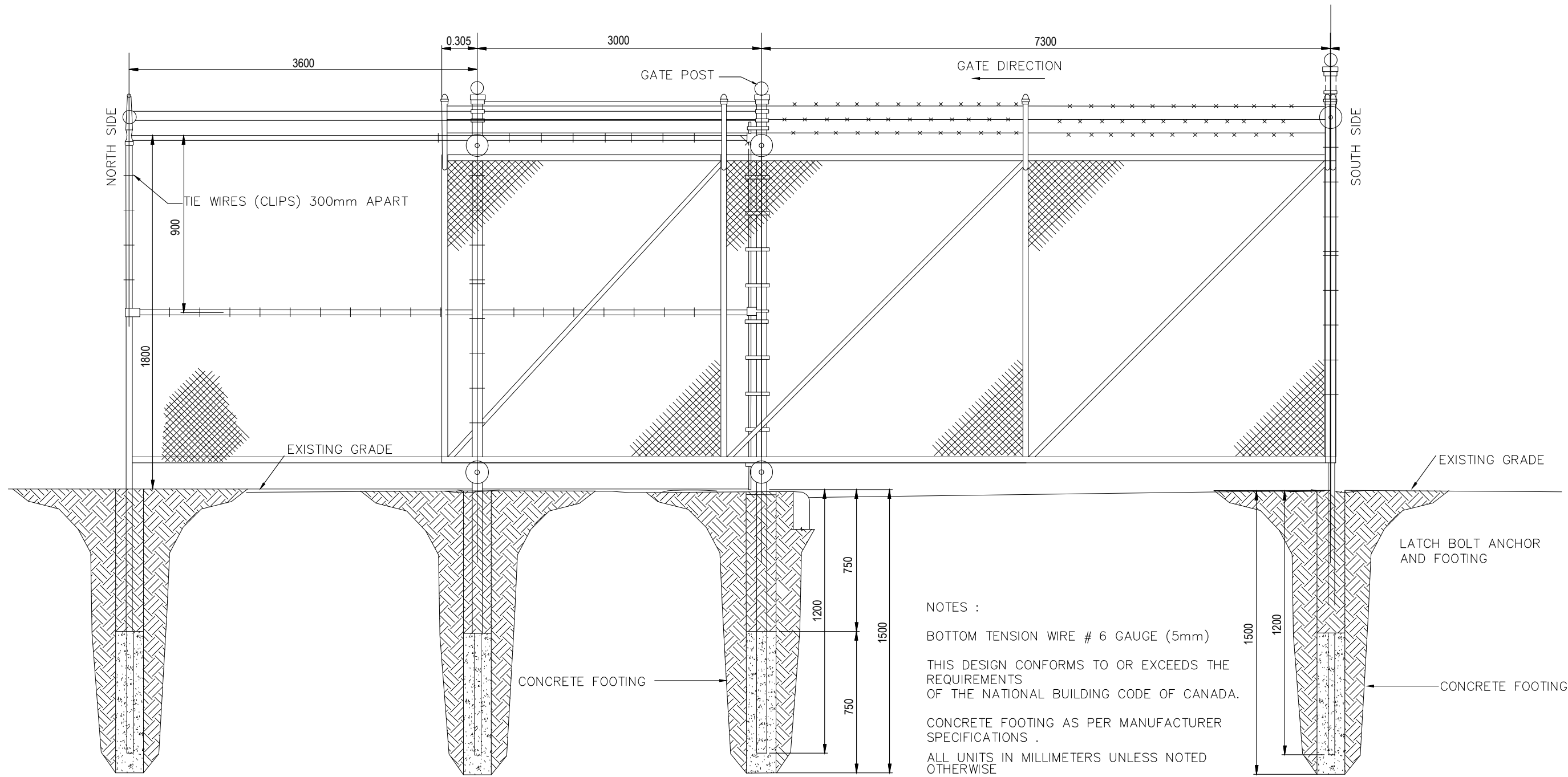


STURGEON LAKE CREE NATION CFS SOCIETY
TEMPORARY MODULAR OFFICE COMPLEX

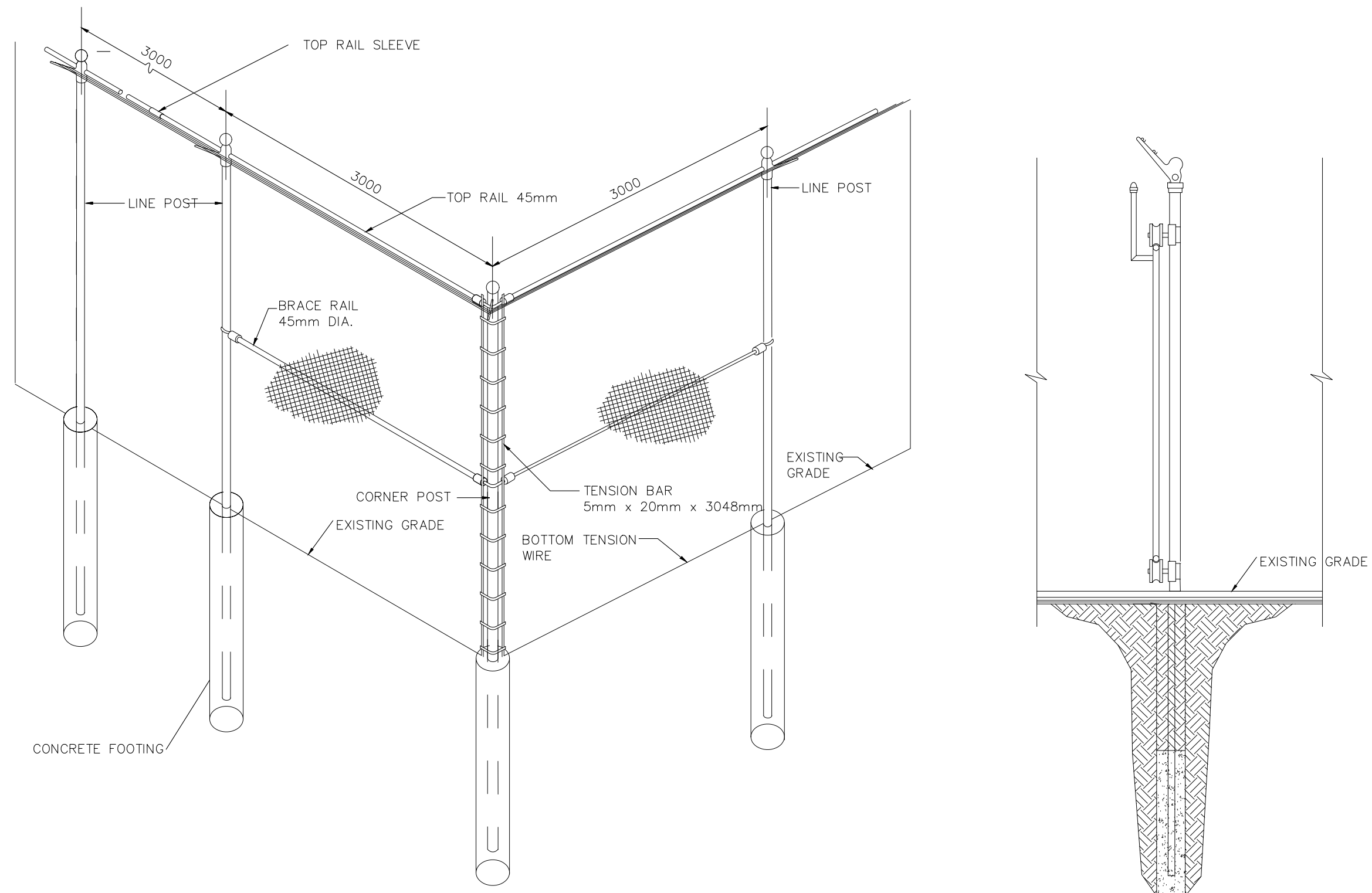
SE19 70-23-5
LOT 5, PLAN 1115 RSA
DETAILS 1/4

SHEET 10 OF 13 DWG. No. 09

TV-7 - MISCELLANEOUS MISC-0396 - STURGEON LAKE CFS TEMPORARY OFFICES\4-WORKING DRAWINGS\STURGEON LAKE CFS BUILDING.DWG

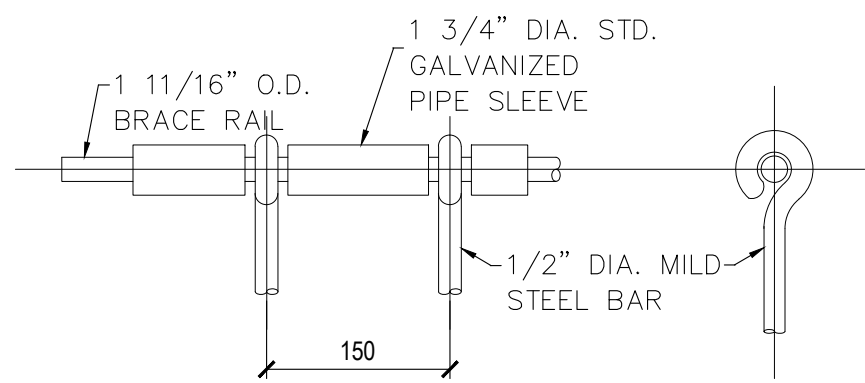


SINGLE VEHICLE GATE DETAIL (N.I.C.)
N.T.S.

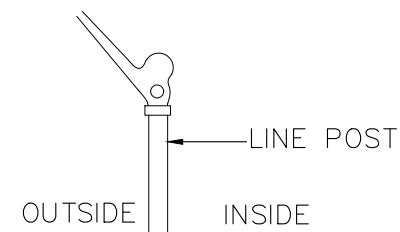


CORNER POST AND BRACING DETAIL (N.I.C.)
N.T.S.

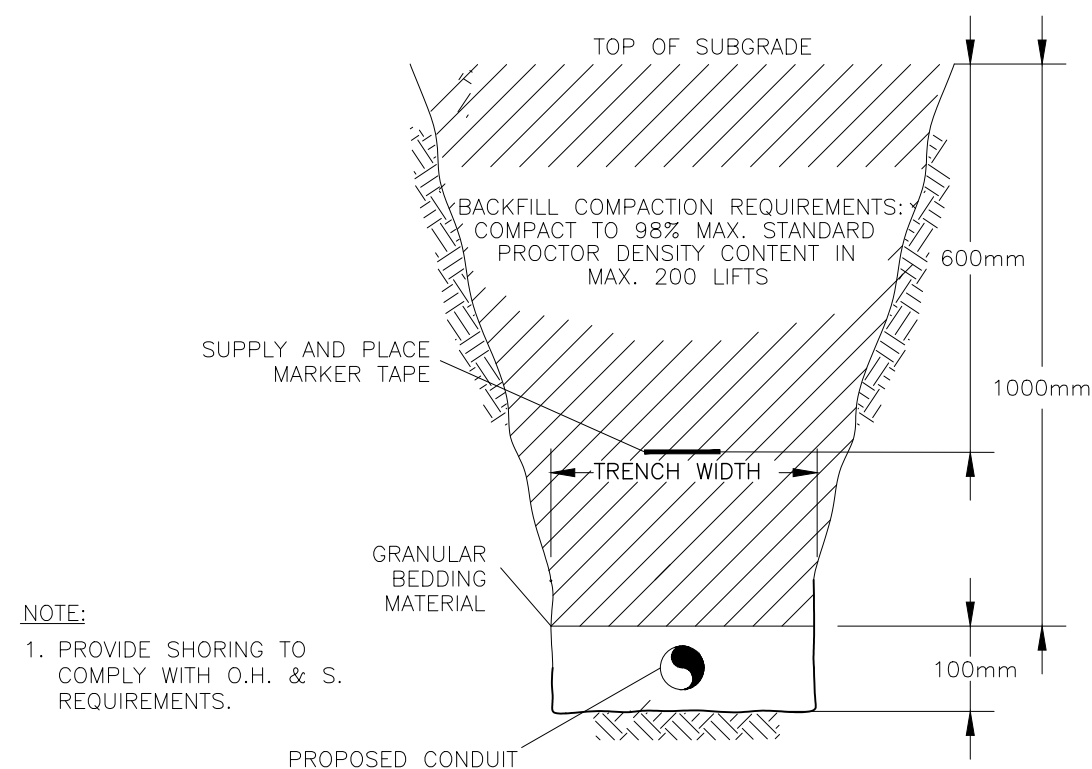
VEHICLE GATE SECTION DETAIL (N.I.C.)
N.T.S.



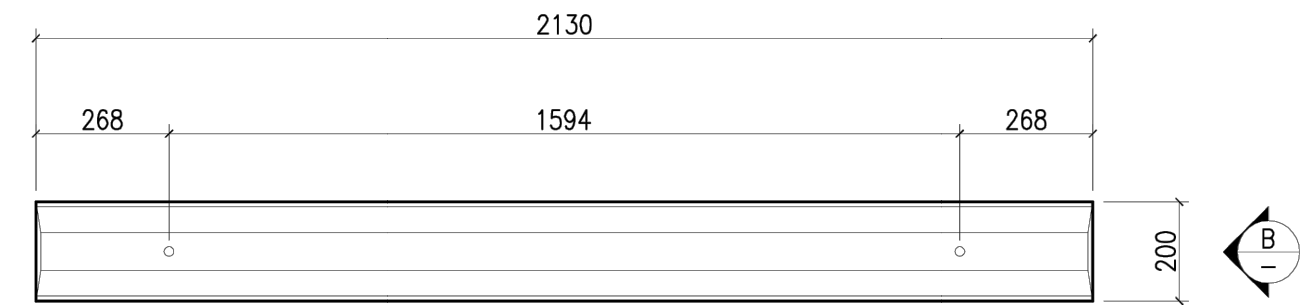
BRACE RAIL AND GRATE BARS DETAIL (N.I.C.)
N.T.S.



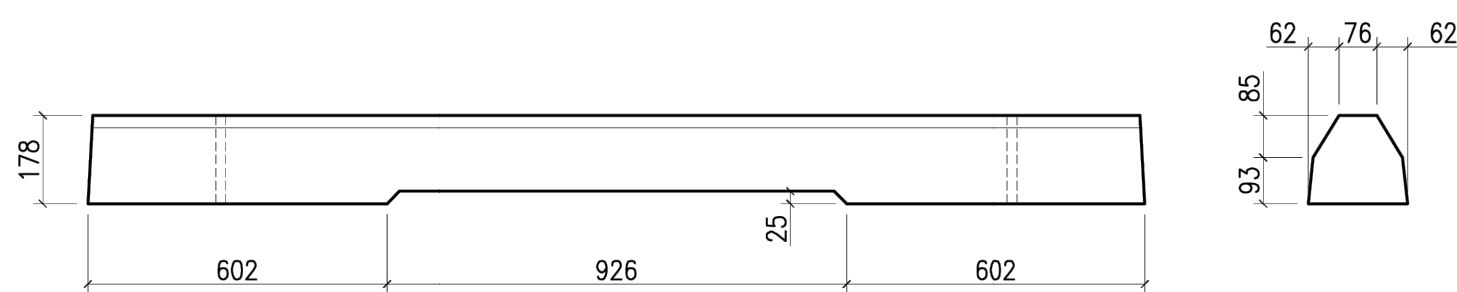
TOP OF LINE POST SECTION (N.I.C.)
N.T.S.



TYPICAL CONDUIT TRENCH AND BEDDING DETAIL
N.T.S.

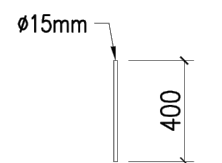


PLAN VIEW



SIDE VIEW A

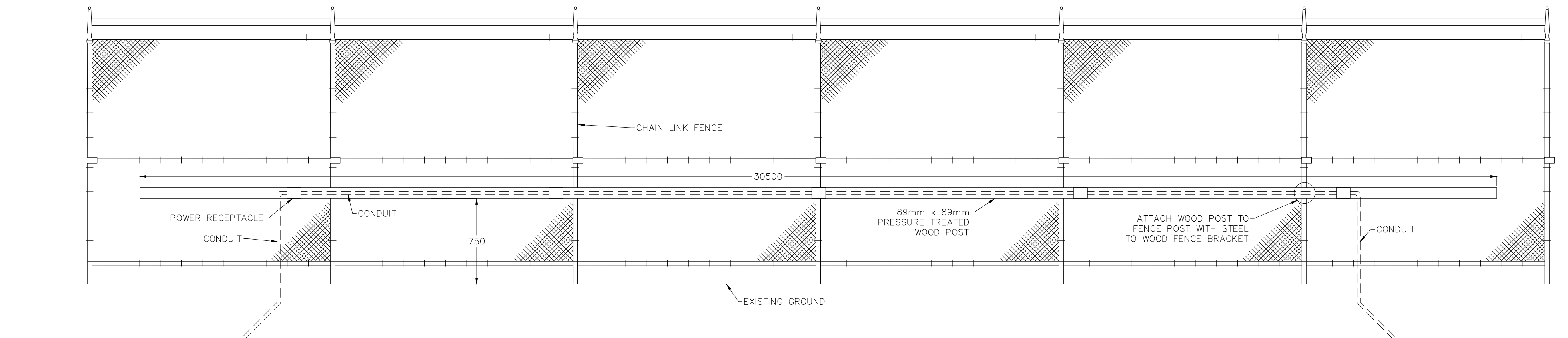
SIDE VIEW B



PIN DETAIL

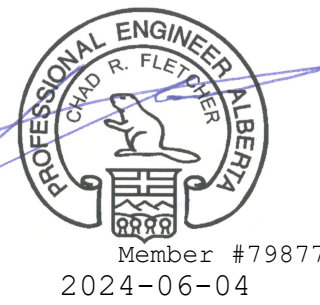
NOTE:
REQUIRED
2-(400mm) ANCHOR PINS

CONCRETE PARKING PUMPER DETAILS
N.T.S.



CAR PLUG-IN RAIL (N.I.C.)
N.T.S.

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Date: 2024-06-04
PERMIT NUMBER: P 6875
The Association of Professional Engineers and Geoscientists of Alberta (APEGA)



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REVISIONS

SCALE
N.T.S.
DESIGNED BY
BDW
CHECKED BY
CF

PROJECT No.
MISC-0396
DRAWN BY
BDW
DATE
MAY 31, 2024

PREPARED FOR



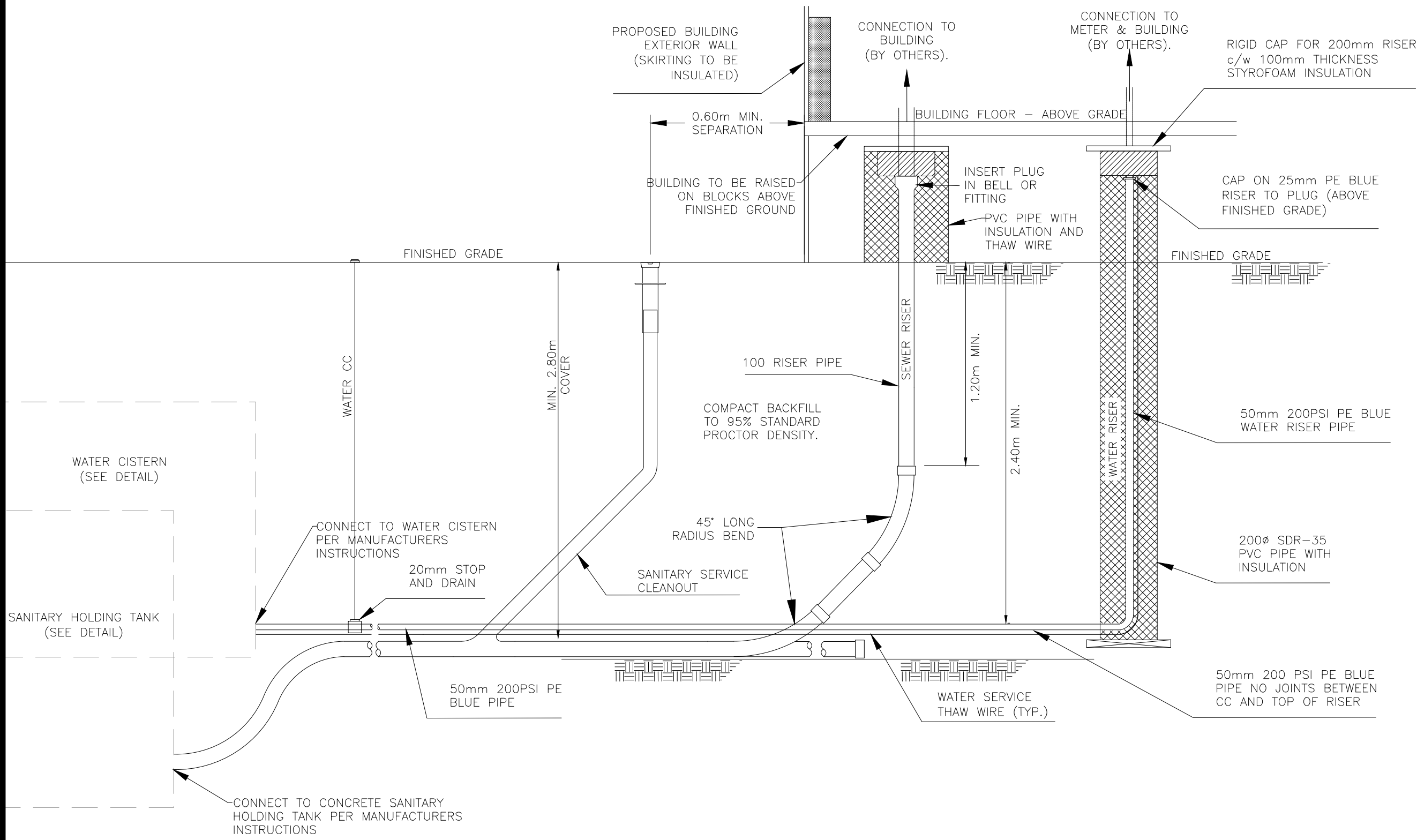
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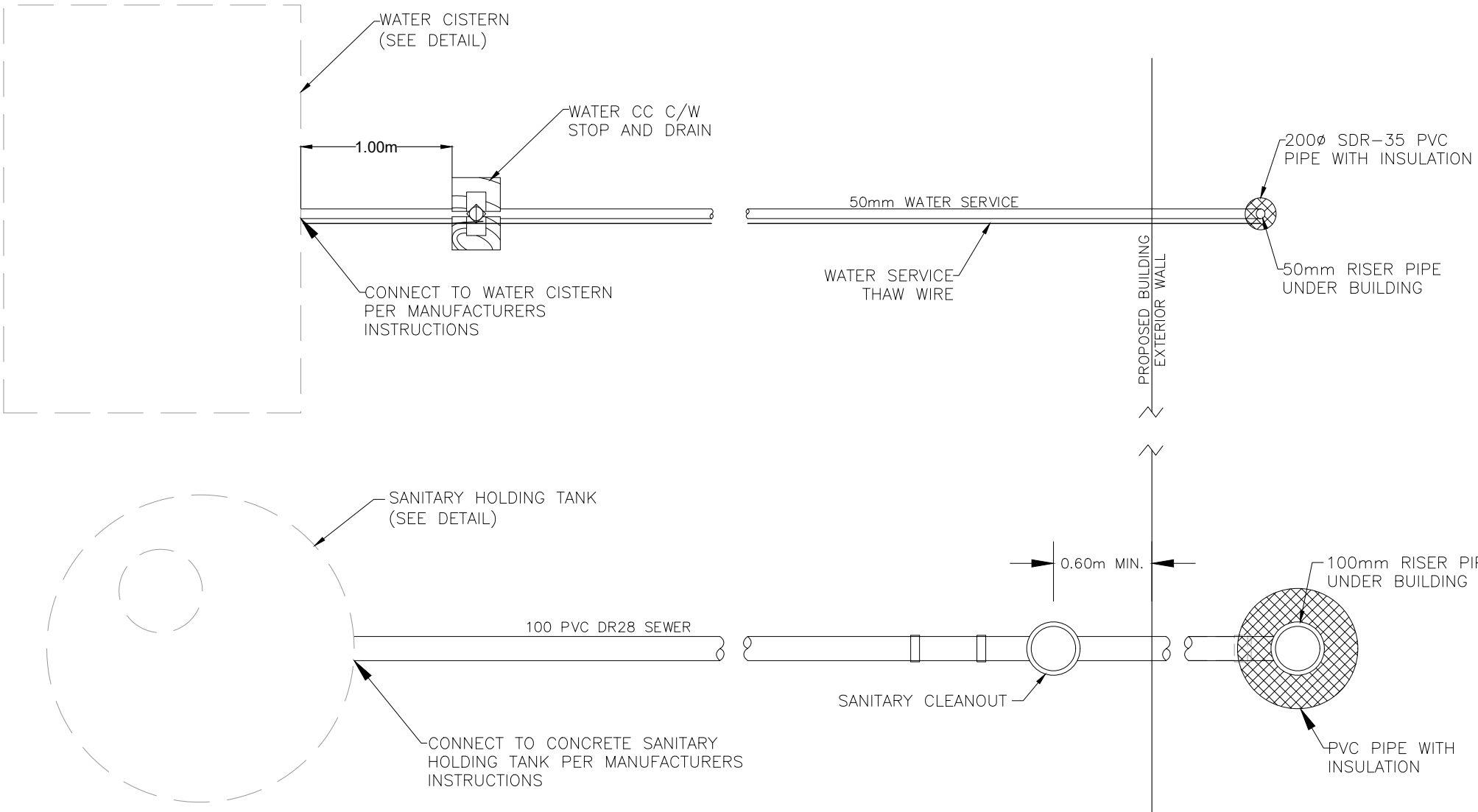
STURGEON LAKE CREE NATION CFS SOCIETY
TEMPORARY MODULAR OFFICE COMPLEX

SE19 70-23-5
LOT 5, PLAN 1115 RSA
DETAILS 2/4

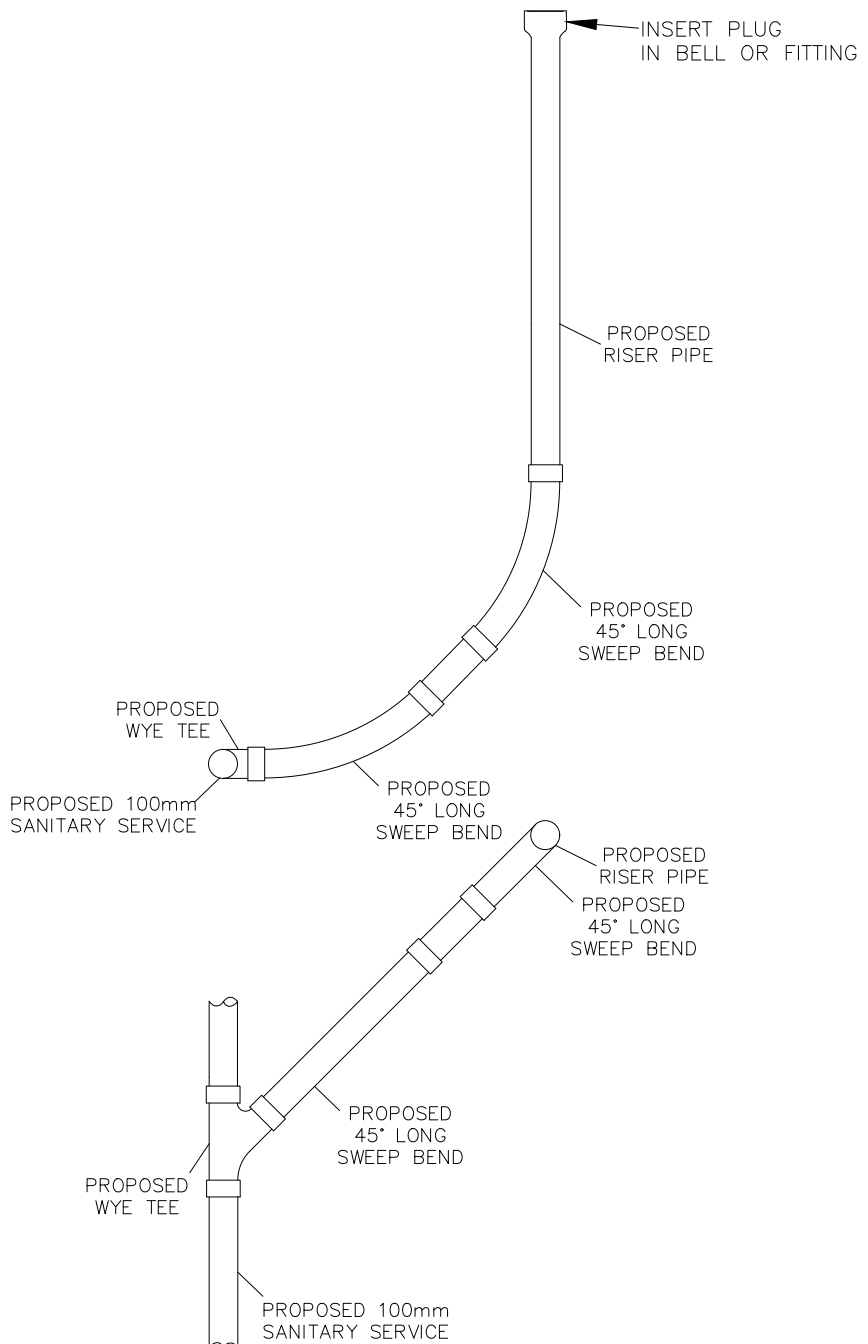
TV-7 - MISCELLANEOUS MISC-0396 - STURGEON LAKE CFS TEMPORARY OFFICES 4-WORKING DRAWINGS STURGEON LAKE CFS BUILDING.DWG



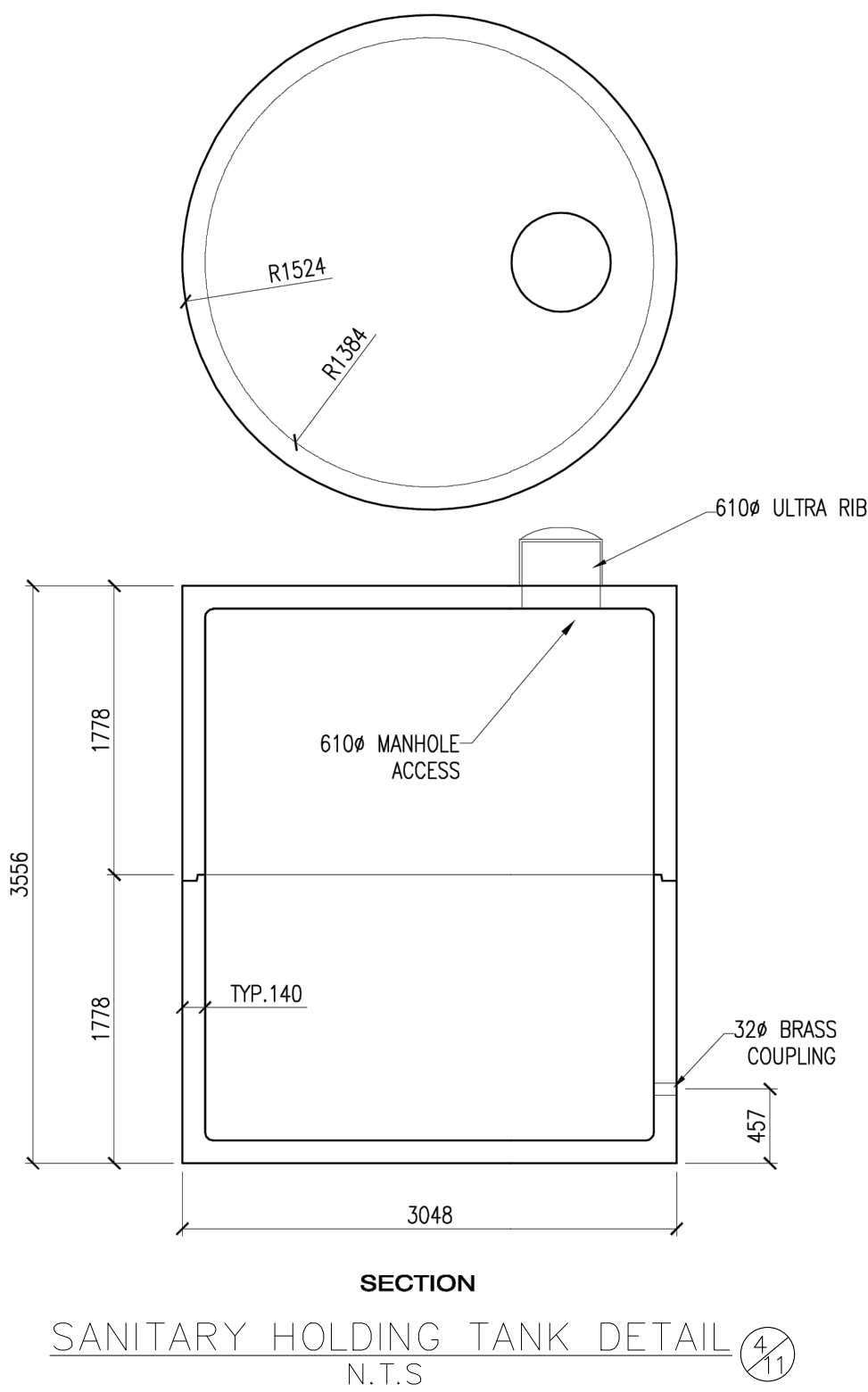
WATER AND SANITARY SERVICING DETAIL 1/11
N.T.S.



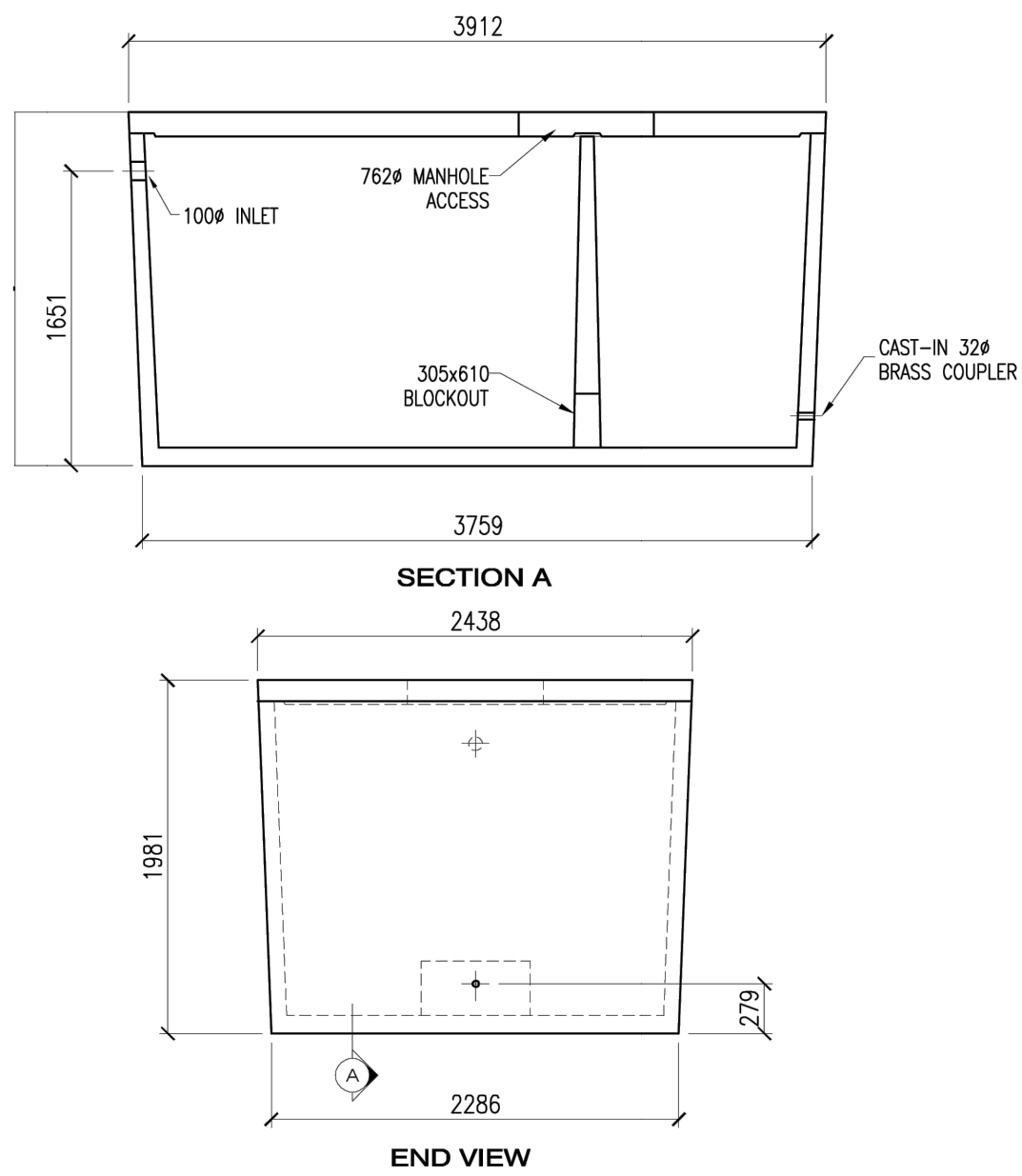
TYPICAL SINGLE SERVICE 2/11
N.T.S.



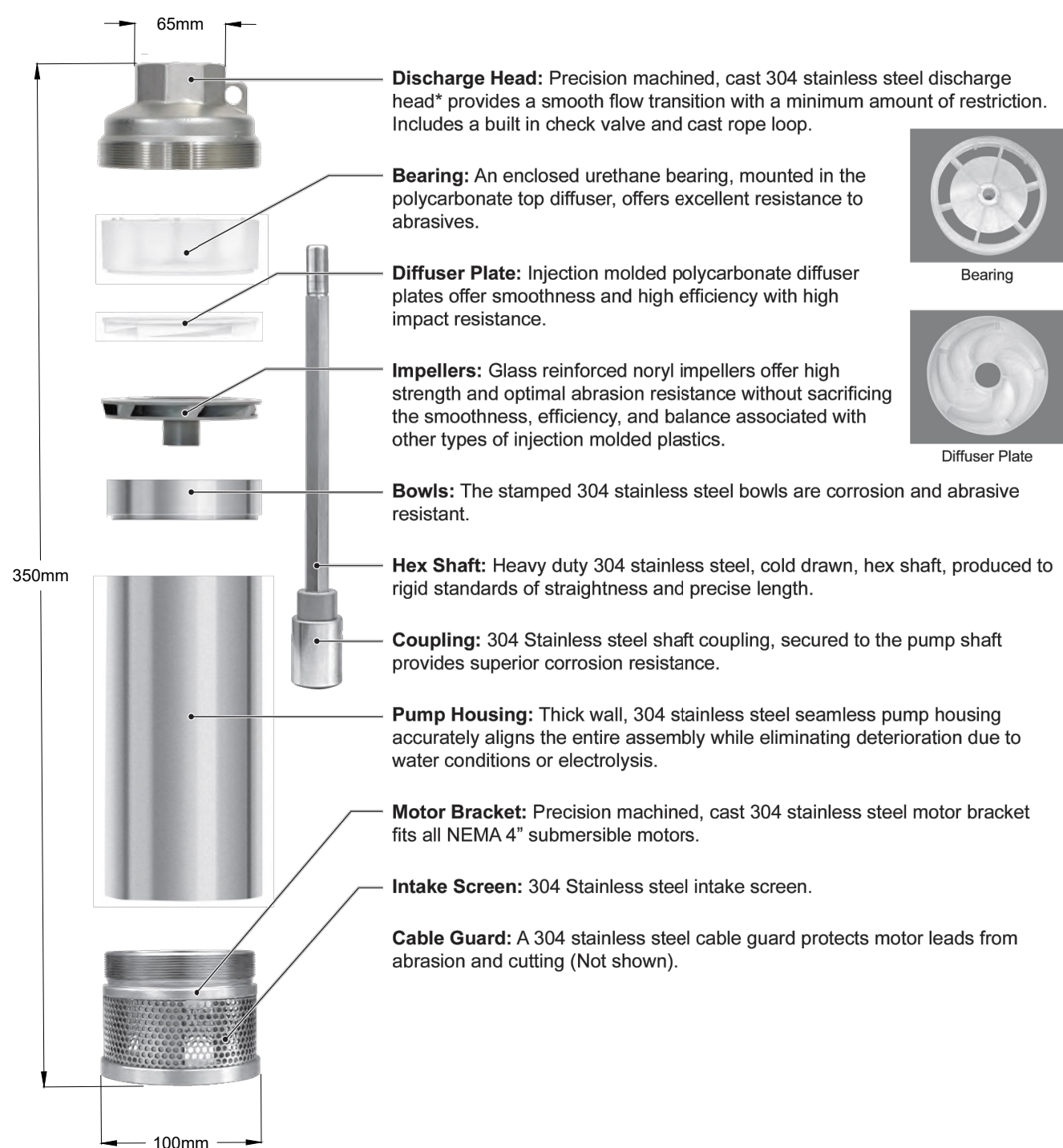
RISER CONNECTION DETAIL 3/11
N.T.S.



SANITARY HOLDING TANK DETAIL 4/11
N.T.S.

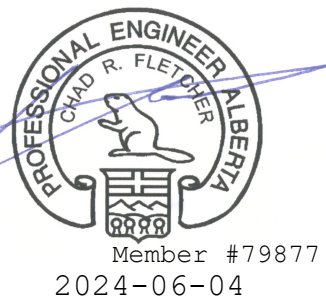


WATER CISTERN DETAIL 5/11
N.T.S.



WEBTROL WT1005 PUMP DETAILS 6/11
N.T.S.

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BDW	BDW
CHECKED BY	DATE
CF	MAY 31, 2024

PREPARED FOR



PREPARED BY

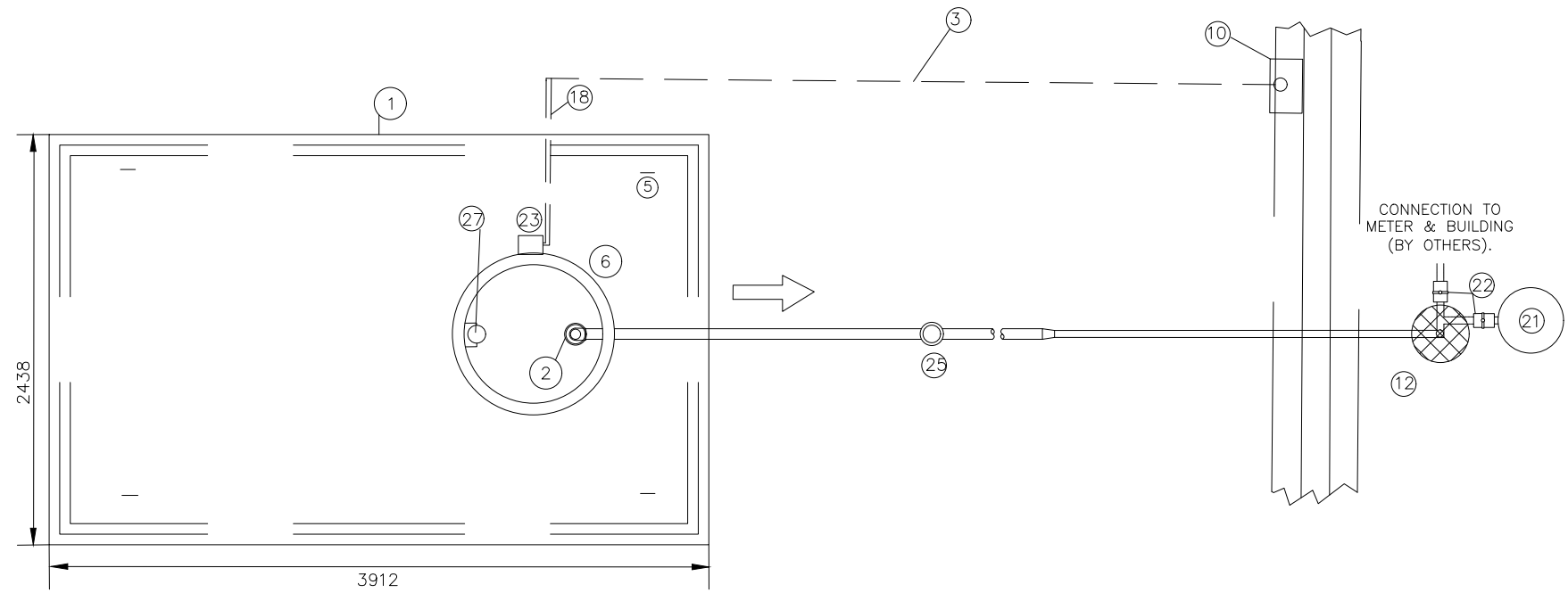
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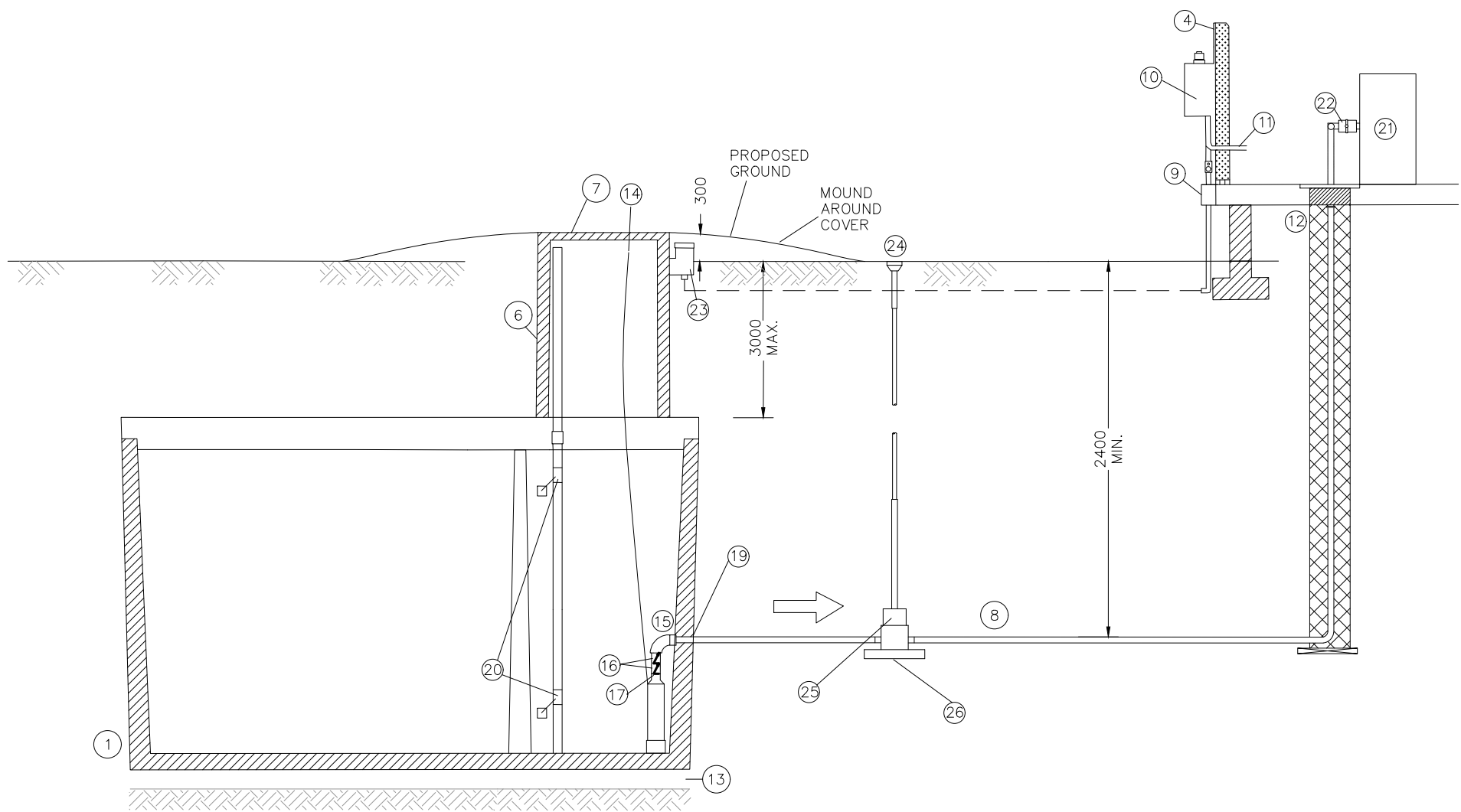
STURGEON LAKE CREE NATION CFS SOCIETY
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SE19 70-23-5
LOT 5, PLAN 1115 RSA
DETAILS 3/4

SHEET 12 OF 13 DWG. No. 11

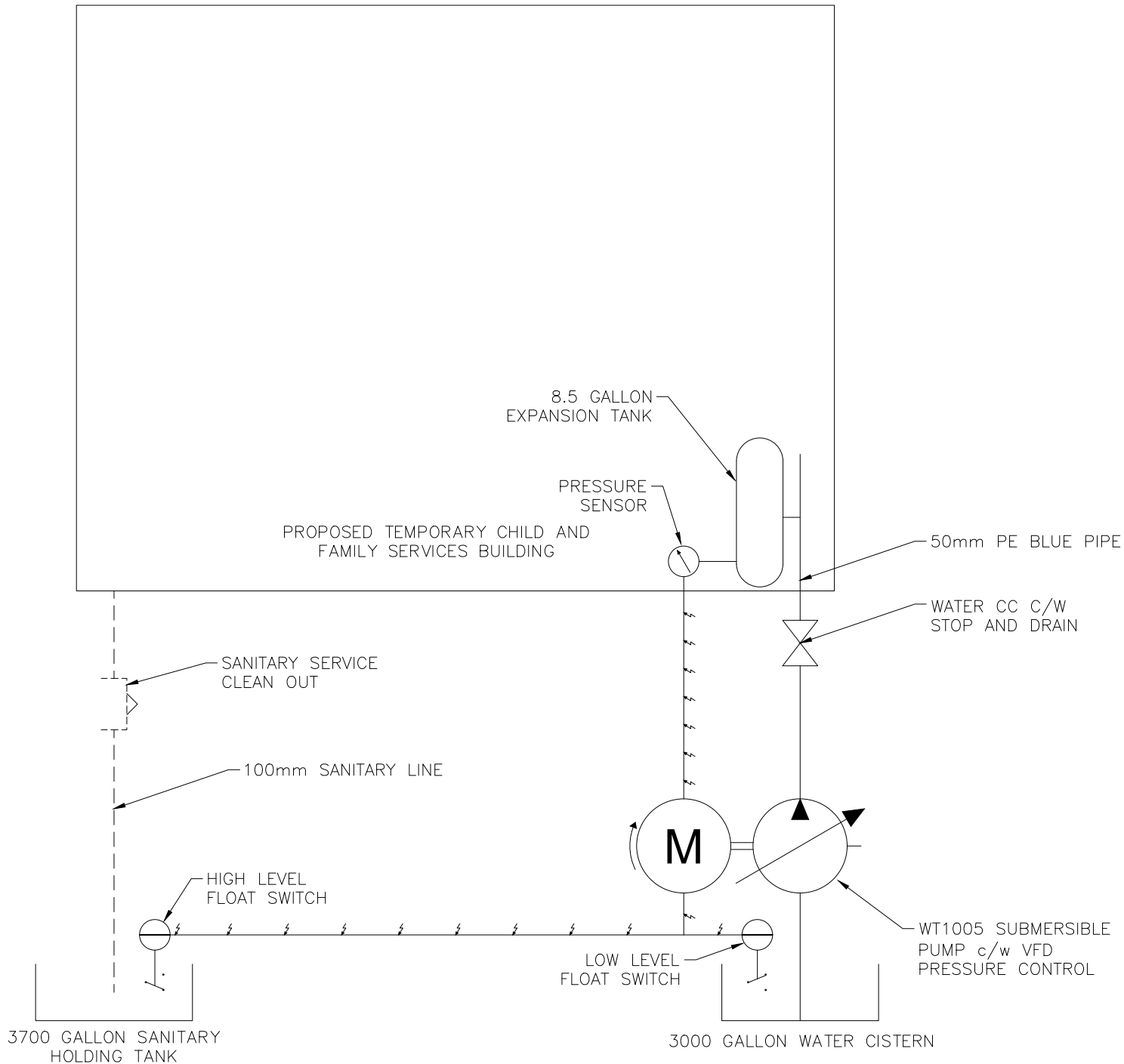


TOP VIEW
N.T.S.



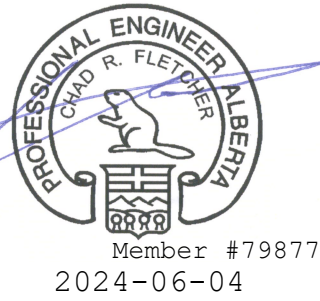
WATER CISTERN AND POTABLE WATER PUMP
N.T.S.

- IDENTIFICATION LEGEND FOR SEPTIC TANK AND EFFLUENT PUMP**
- 1 3000 GAL. TWIN COMPARTMENT HOLDING TANK
 - 2 SUBMERSIBLE WATER PUMP C/W VFD PRESSURE CONTROL
 - 3 POWER SUPPLY TO CONTROL PANEL
 - 4 WALL
 - 5 LIFTING HOOKS
 - 6 ACCESS RISER SECTION (750 INSIDE DIAMETER)
 - 7 CONCRETE LID SUPPLIED WITH HOLDING TANK
 - 8 50mm PE BLUE PIPE
 - 9 WEATHERPROOF JUNCTION BOX
 - 19 WEATHERPROOF SIMPLEX CONTROL PANEL FOR OUTDOOR MOUNTING WITH HIGH LEVEL ALARM & REMOTE ALARM OUTPUT
 - 11 120 VOLT POWER SUPPLY FOR PUMP
 - 12 50mm PE BLUE PIPE WITH INSULATION
 - 13 SAND BEDDING - MIN. 100 THICK
 - 14 9 NYLON ROPE CONNECTED TO PUMP FOR PUMP WITHDRAWAL. ATTACH END TO HOOK INSTALLED INTO ACCESS.
 - 15 50mm PITLESS ADAPTER
 - 16 32 dia. CHECK VALVE INSTALLED AT PUMP DISCHARGE (TWO IN SERIES). PROVIDE 32 dia. THREADED BRASS HOSE CONNECTION.
 - 17 ADAPTORS ARE REQUIRED TO TRANSITION TO CHECK VALVE dia.
 - 18 RIGID CONDUIT TO PROTECT POWER SUPPLY CABLE (ABOVE) CONNECTION
 - 19 GROUT AROUND 40 POLYETHYLENE PIPE
 - 20 PUMP FLOAT
 - 21 8.5 GALLON EXPANSION TANK
 - 22 BALL VALVE
 - 23 EXTERNAL SPLICE BOX
 - 24 SERVICE BOX
 - 25 SEALED CC VALVE
 - 26 38X189 SQ. TREATED PLANK
 - 27 38 FLOAT MAST



HYDRAULIC SCHEMATIC
N.T.S.

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SE19 70-23-5
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DETAILS 4/4

SHEET 13 OF 13 DWG. No. 12