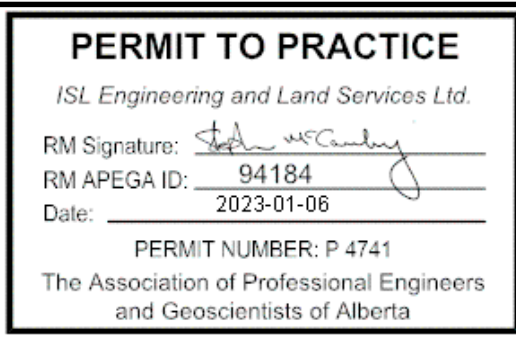


FOR APPROVAL

2	FOR APPROVAL	RC	Jan. 6, 2023
1	FOR APPROVAL	RC	Nov. 23, 2022
No.	DESCRIPTION	BY	DATE
REVISIONS			



0 250 500 750 1000mm  
1:25

Scale

**ISL**

MATTAMY (SHERWOOD PARK) LTD

HEARTHSTONE SANITARY  
LIFT STATION

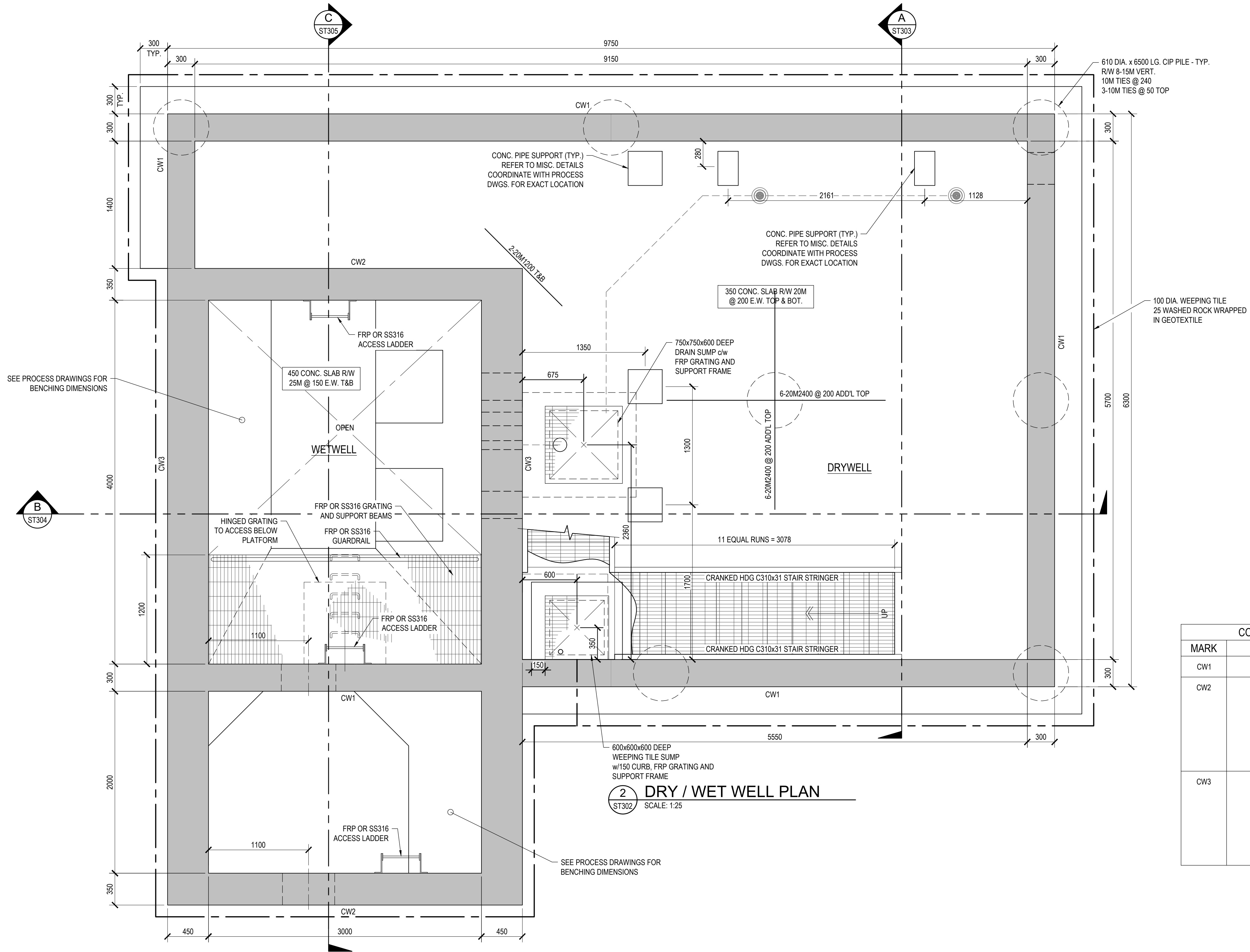
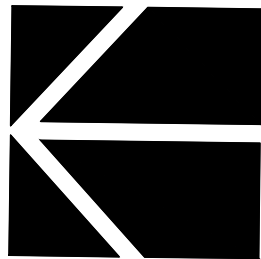
Drawn: MLL	Design Checked: RC	Date: Nov. 23, 2022
Designed: KI	Discipline Review: RC	Date: Nov. 23, 2022

## STRUCTURAL MAIN FLOOR PLAN

Drawing No.  
15719  
ST  
301

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Sheet No.  
301



CONCRETE WALL SCHEDULE		
MARK	DESCRIPTION	VERT. REINF.
CW1	300 THK. WALL	15M @ 300 H.E.F. 20M @ 150 V.E.F.
CW2	350 THK. WALL	-11m TO -6m BGS: 25M @ 125 H.E.F. 20M @ 125 V.E.F. -6m TO -3m BGS: 20M @ 125 H.E.F. 15M @ 125 V.E.F. -3m TO 0m BGS: 15M @ 150 H.E.F. 15M @ 150 V.E.F.
CW3	450 THK. WALL	-11m TO -6m BGS: 25M @ 125 H.E.F. 20M @ 125 V.E.F. -6m TO -3m BGS: 20M @ 125 H.E.F. 15M @ 125 V.E.F. -3m TO 0m BGS: 15M @ 150 H.E.F. 15M @ 150 V.E.F.

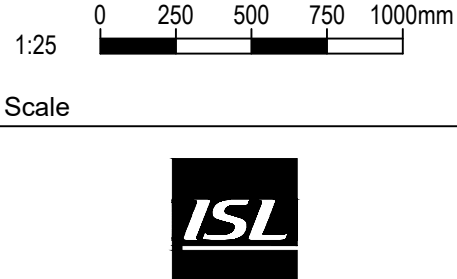
NOTE: THIS DRAWING IS  
HALF SCALE WHEN PRINTED  
TO 11" x 17" FORMAT

FOR APPROVAL

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2	FOR APPROVAL	RC	Jan. 6, 2023
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REVISIONS			



**PERMIT TO PRACTICE**  
ISL Engineering and Land Services Ltd.  
RM Signature: *[Signature]*  
RM APEGA ID: 94184  
Date: 2023-01-08  
PERMIT NUMBER: P 4741  
The Association of Professional Engineers  
and Geoscientists of Alberta



MATTAMY (SHERWOOD PARK) LTD		
HEARTHSTONE SANITARY LIFT STATION		
Drawn: MLL	Design Checked: RC	Date: Nov. 23, 2022
Designed: KI	Discipline Review: RC	Date: Nov. 23, 2022

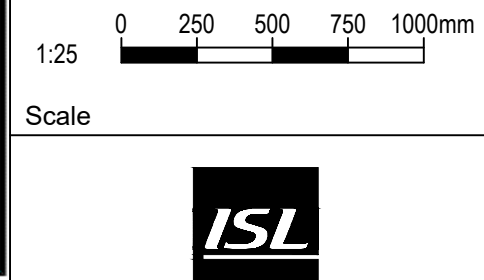
STRUCTURAL  
DRY / WET WELL PLAN

Drawing No.  
15719  
ST  
302  
Sheet No.  
302



FOR APPROVAL

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1	FOR APPROVAL	RC	Nov. 23, 2022
No.	DESCRIPTION	BY	DATE
REVISIONS			



MATTAMY (SHERWOOD PARK) LTD

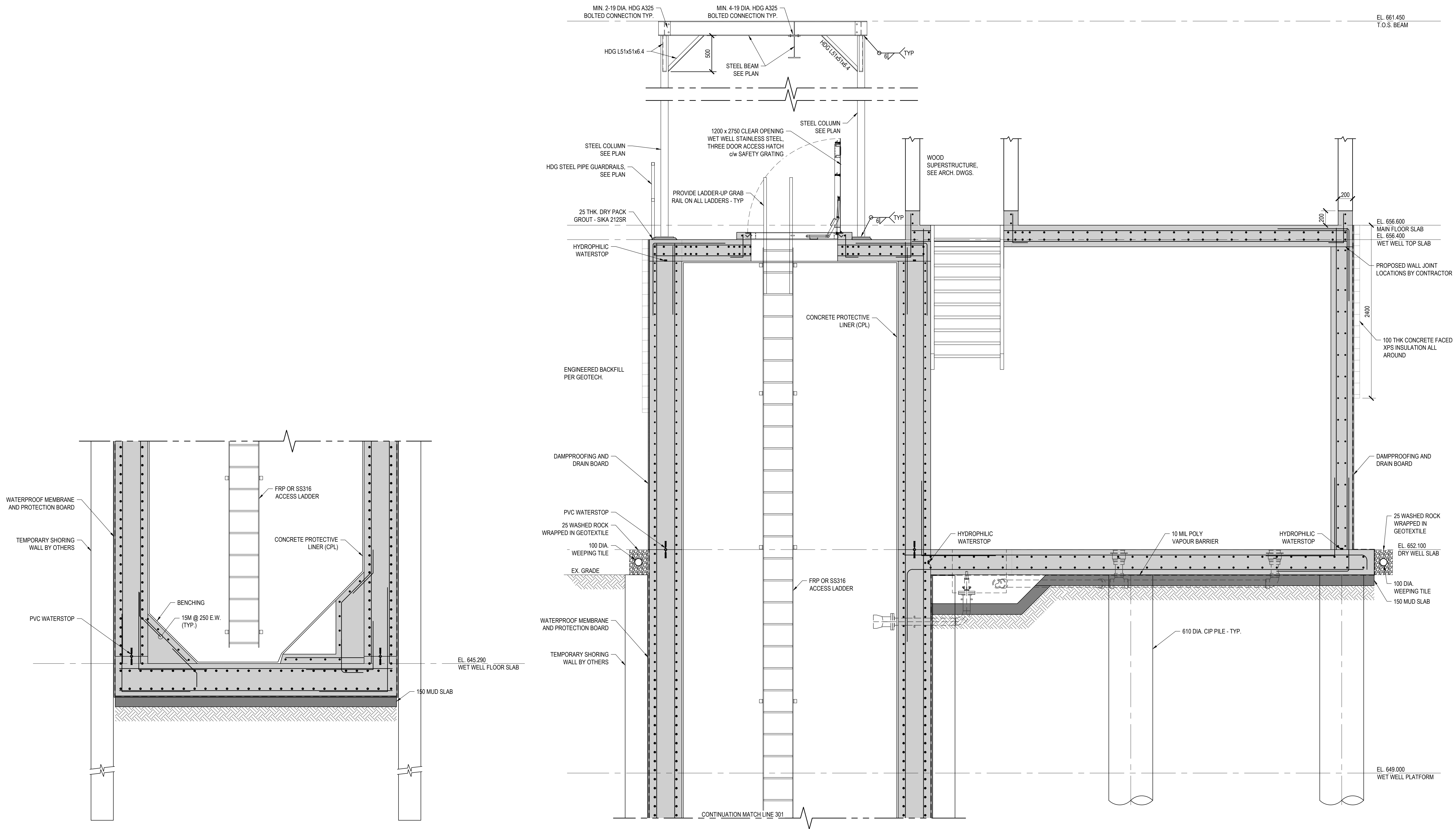
HEARTHSTONE SANITARY  
LIFT STATION

Drawn: MLL	Design Checked: RC	Date: Nov. 23, 2022
Designed: KI	Discipline Review: RC	Date: Nov. 23, 2022

STRUCTURAL  
SECTION A

Drawing No.
15719 ST 303
Sheet No.
303

Alan Li | Jan. 4, 23 | G:\Projects\15000\15700\15719\_Cambrian\_Sanitary\_Lift\_Station\02\_CADD\20\_Drafting\203\_DWG\300\_Structural\15719-Structural.dwg



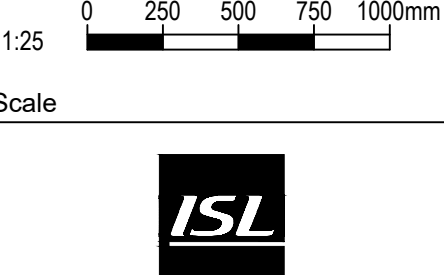
NOTE: THIS DRAWING IS  
HALF SCALE WHEN PRINTED  
TO 11" x 17" FORMAT

FOR APPROVAL

No.	DESCRIPTION	BY	DATE
2	FOR APPROVAL	RC	Jan. 6, 2023
1	FOR APPROVAL	RC	Nov. 23, 2022



**PERMIT TO PRACTICE**  
ISL Engineering and Land Services Ltd.  
RM Signature: *Alan Li*  
RM APEGA ID: 94184  
Date: 2023-01-06  
PERMIT NUMBER: P 4741  
The Association of Professional Engineers  
and Geoscientists of Alberta

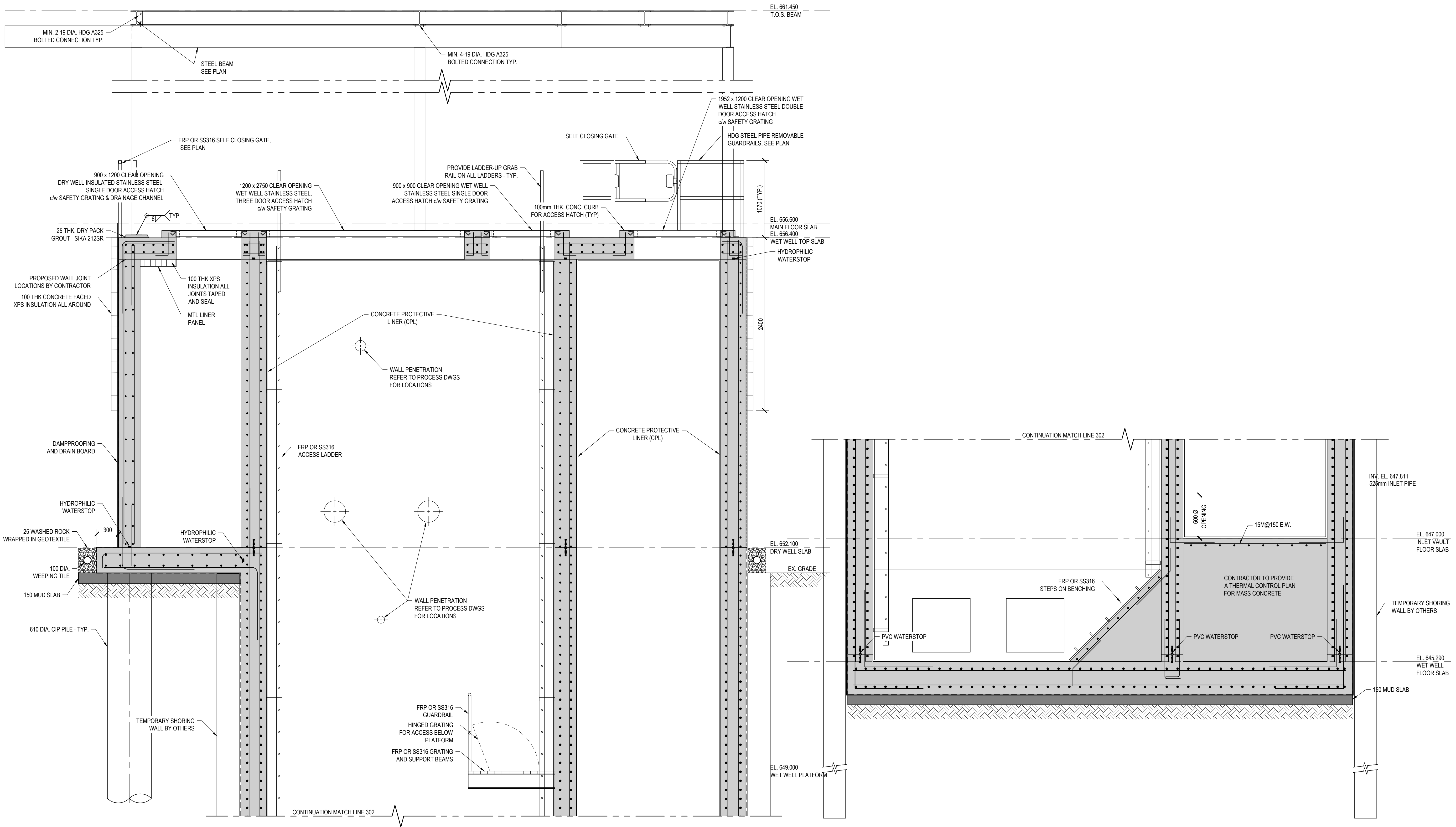


MATTAMY (SHERWOOD PARK) LTD		
HEARTHSTONE SANITARY LIFT STATION		
Drawn: MLL	Design Checked: RC	Date: Nov. 23, 2022
Designed: KI	Discipline Review: RC	Date: Nov. 23, 2022

STRUCTURAL SECTION B	Drawing No.
	15719 ST 304
	Sheet No.
	304



Alan Li | Jan. 4, 23 | G:\Projects\15000157001571919\_Cambrian\_Sanitary\_Lift\_Station\02\_CADD\20\_Drafting\203\_DWG\300\_Structural\15719-Structural.dwg



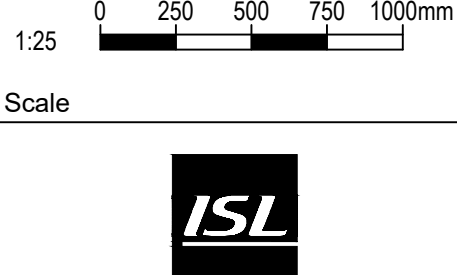
NOTE: THIS DRAWING IS  
HALF SCALE WHEN PRINTED  
TO 11" x 17" FORMAT

FOR APPROVAL

No.	DESCRIPTION	BY	DATE
2	FOR APPROVAL	RC	Jan. 6, 2023
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**PERMIT TO PRACTICE**  
ISL Engineering and Land Services Ltd.  
RM Signature: *[Signature]*  
RM APEGA ID: 94184  
Date: 2023-01-06  
PERMIT NUMBER: P 4741  
The Association of Professional Engineers  
and Geoscientists of Alberta



MATTAMY (SHERWOOD PARK) LTD		
HEARTHSTONE SANITARY LIFT STATION		
Drawn: MLL	Design Checked: RC	Date: Nov. 23, 2022
Designed: KI	Discipline Review: RC	Date: Nov. 23, 2022

STRUCTURAL SECTION C		Drawing No. 15719 ST 305 Sheet No. 305
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DESIGN DATA

DESIGN CODE : NATIONAL BUILDING CODE - 2019 ALBERTA EDITION  
IMPORTANCE CATEGORY: POST DISASTER Is = 1.25, Iw = 1.25, IE = 1.5

CODE REVIEW  
BUILDING NAME: HEARTHSTONE SANITARY LIFT STATION  
FUNCTION: WASTEWATER LIFT STATION FACILITY  
LEGAL DESCRIPTION:

TOTAL BUILDING FOOTPRINT: 41 sqm  
TOTAL FLOOR AREA: 68 sqm  
OCCUPANCY:  
PUMP STATION FACILITY 68 sqm/4.6 MAX. 15 PEOPLE

SUMMARY CLASSIFICATION:  
GROUP F DIVISION 3  
NON-COMBUSTIBLE / COMBUSTIBLE CONSTRUCTION  
NON-SPRINKLERED

ROOF

DEAD LOADS:  
ROOFING & INSULATION .....0.35 kPa  
FRAMING .....0.35 kPa  
CEILING, MECHANICAL & ELECTRICAL .....0.30 kPa  
TOTAL DEAD LOADS .....1.00 kPa

ENVIRONMENTAL LOADS:  
GROUND SNOW LOAD (Ss) .....1.80 kPa  
RAIN LOAD (Sr) .....0.10 kPa  
DESIGN ULS SNOW LOAD .....1.93 kPa

FLOOR

DEAD LOADS:  
TOTAL DEAD LOAD .....SELF WEIGHT + 2.35 kPa

LIVE LOADS:

DRY WELL AND WET WELL PLATFORM .....4.80 kPa  
GROUND FLOOR WET WELL/INLET MH SLAB .....12.00 kPa

WIND LOADS: HOURLY WIND PRESSURE (1/50) .....0.45 kPa  
INTERNAL PRESSURE CATEGORY 2  
TERRAIN OPEN

SEISMIC DATA:  
Sa(0.2) = 0.097  
Sa(0.5) = 0.059  
Sa(1.0) = 0.035  
Sa(2.0) = 0.0180  
Sa(5.0) = 0.0051  
Sa(10.0) = 0.0023  
PGA (g) = 0.059  
POV (m/s) = 0.043  
SITE CLASS: C

SOIL CONDITIONS:

THE FOUNDATION HAS BEEN DESIGNED BASED ON THE GEOTECHNICAL INVESTIGATION REPORT # 2418-2324 DATED DEC. 10, 2021 BY J.R. PAINE & ASSOCIATES LTD. ON THE FOLLOWING ASSUMED VALUES:

WET WELL FACTORED BEARING CAPACITY .....210 kPa  
WET WELL SUBGRADE MODULUS (k) .....15 MN/m3  
CAST-IN-PLACE PILES FACTORED SKIN FRICTION .....20 kPa  
HEATED FROST DEPTH .....1.5m  
UNHEATED FROST DEPTH .....2.5m

RETAINING WALLS ARE DESIGNED IN ACCORDANCE WITH RECOMMENDATIONS IN THE GEOTECHNICAL REPORT WITH FREE DRAINING BACKFILL AND AN ADDITIONAL 4.8kPa LATERAL LOAD ALLOWANCE FOR A VERTICAL SURCHARGE OF 12kPa WHERE APPLICABLE.

LIQUID RETENTION TESTING OF STRUCTURE

LIQUID RETENTION RETAINING STRUCTURES ARE TO BE TESTED FOR WATER RETENTION PRIOR TO BACKFILL IN ACCORDANCE WITH ACI 350.1 'SPECIFICATION FOR TIGHTNESS TESTING OF ENVIRONMENTAL ENGINEERING CONCRETE CONTAINMENT STRUCTURES'.

MATERIAL SPECIFICATIONS

CONCRETE PROTECTIVE LINER:  
SAUERISEN SEWARDGARD 210 XHB - FILM THICKNESS 125 mils

AREA PREPARATION, INSTALLATION AND CURING SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S PRODUCT DATA SHEET.

SMOOTH FINISH FLOOR COATING:  
SIKAFLOOR-261 CA - COATING THICKNESS 0.8mm

AREA PREPARATION, INSTALLATION AND CURING SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S PRODUCT DATA SHEET.

WOOD  
TO CONFORM WITH CSA/CAN 086:19 ENGINEERING DESIGN IN WOOD

STRUCTURAL LIGHT FRAMING: SPF #2 OR BETTER  
WOOD BASED SHEATHING: PLYWOOD TO CSA 0325:2

VEHICLE GUARD TIMBER POSTS AND SPACERS: COAST DOUGLAS FIR, PACIFIC COAST HEMLOCK OR LODGEPOLE PINE CONFORMING TO THE STRESS GRADE "SELECT STRUCTURAL POSTS AND TIMBERS" (NLGA PARAGRAPH 131 a).

CONCRETE  
CONCRETE TO BE PLACED TO CSA A23.1:19 AS FOLLOWS:

WET WELL  
COMPRESSIVE STRENGTH: 35MPa WITHIN 56d  
CSA EXPOSURE CLASS: A-1/S-1

PILES/RETAINING WALLS/DRYWELL WALLS, RAFT, AND SLAB  
COMPRESSIVE STRENGTH: 32MPa WITHIN 56d  
CSA EXPOSURE CLASS: S-2

CONCRETE REINFORCEMENT  
PROVIDE REINFORCEMENT TO CSA A23.1:19 AND CSA G30.18:21  
GRADE 400W

COVER: 60mm U.N.O.

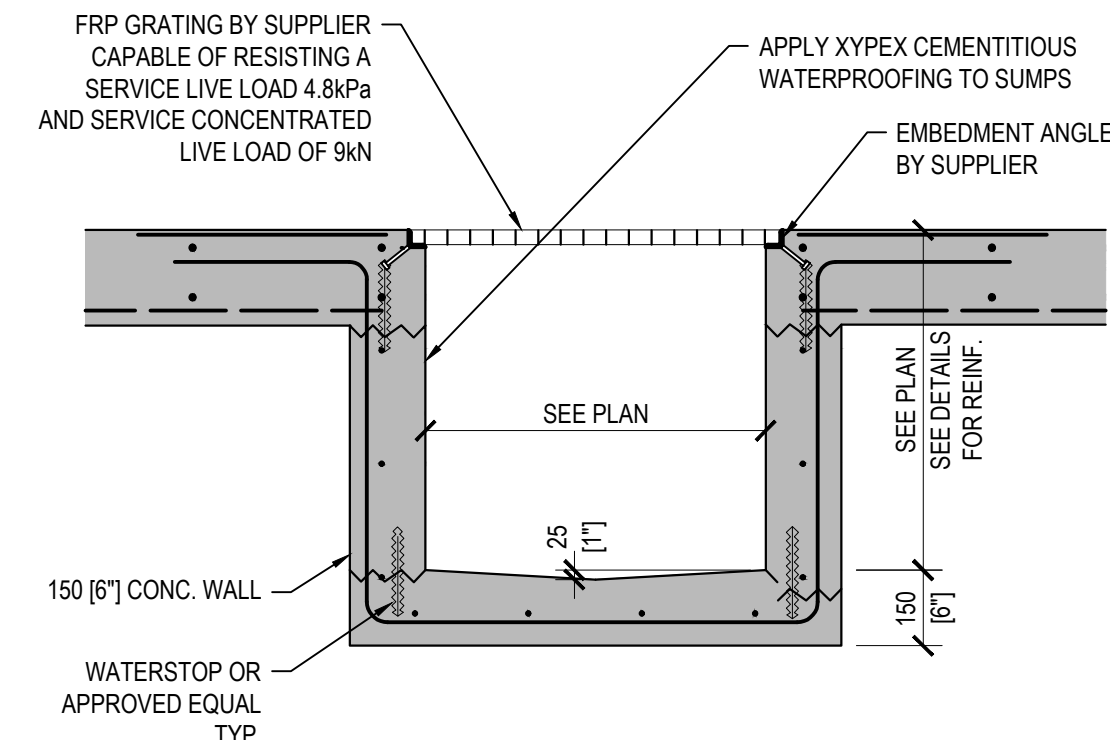
STRUCTURAL STEEL  
PLATE STEEL AND STRUCTURAL SHAPES SHALL CONFORM TO CSA G40.20/G40.2 OR ASTM A992/A992M WITH THE FOLLOWING MINIMUM STEEL GRADES:

- STRUCTURAL SHAPES .....350W
- HOLLOW STRUCTURAL SECTIONS .....350W CLASS 'C'
- PLATES .....300W
- PIPES .....ASTM A53 240W
- VEHICLE GUARDRAIL W-BEAM .....350W

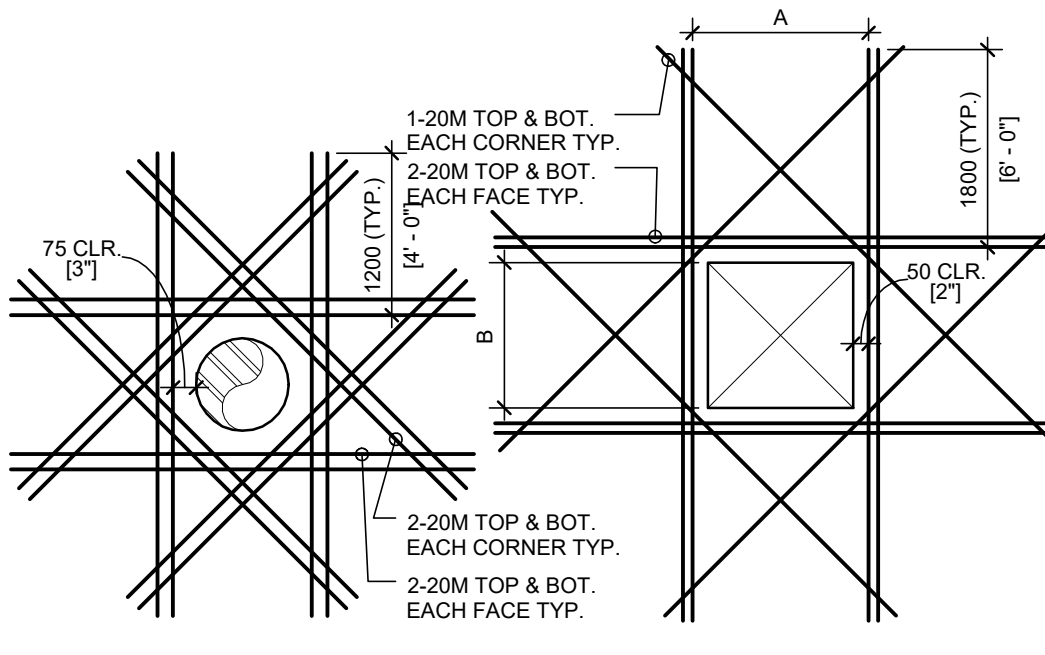
WELDING TO BE METAL ARC WELDING TO CSA W59.

STRUCTURAL STEEL CONNECTION BOLTS TO CONFORM TO ASTM A307, A325, OR A325M. VEHICLE GUARDRAIL BOLTS, NUTS AND WASHERS SHALL CONFORM TO AASHTO M180.

ALL STEEL MATERIALS SHALL BE HOT-DIP GALVANIZED AFTER FABRICATION IN ACCORDANCE WITH ASTM A123/A123M AND ASTM F2329 UNLESS NOTED OTHERWISE.

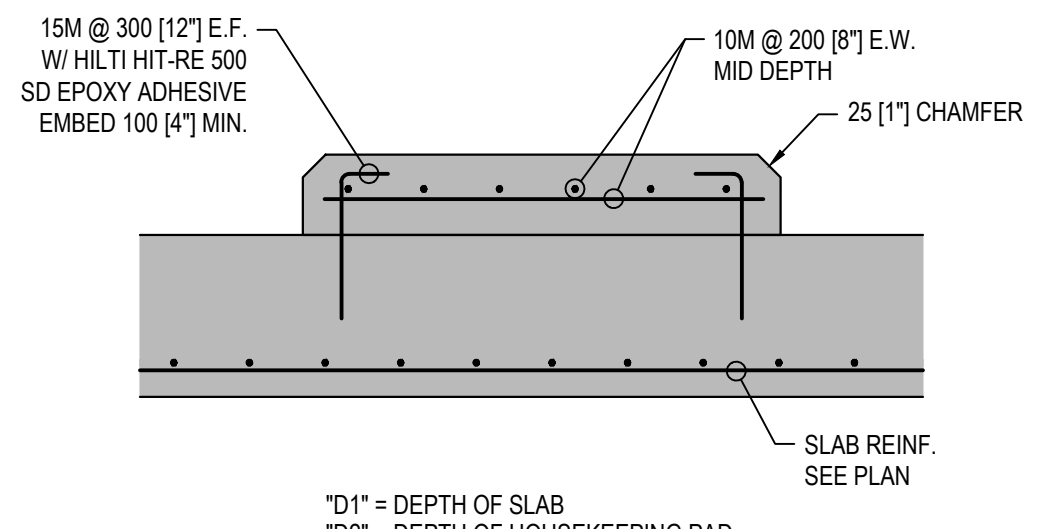


8 TYPICAL SUMP PIT DETAIL  
ST306 N.T.S.



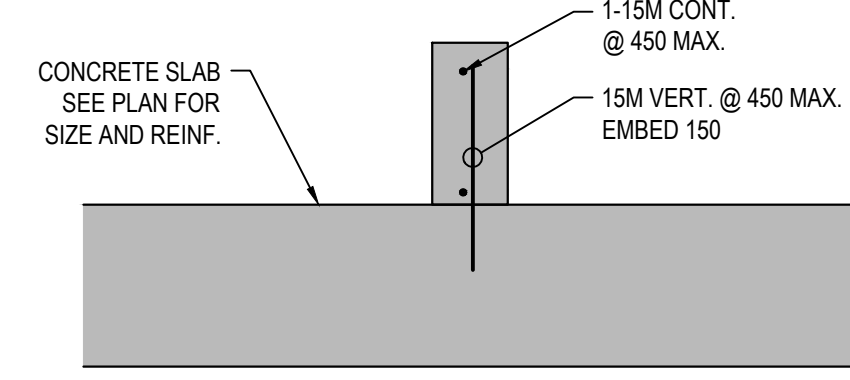
- NOTES:
1. NUMBER OF REINFORCING BARS TO BE CUT AT OPENING TO BE KEPT AT A MINIMUM.
  2. REINFORCING BARS TO BE KEPT 75 [3"] CLEAR OF OPENINGS U.N.O.
  3. PROVIDE STANDARD HOOKS ON ALL ADDITIONAL REINFORCING WHERE IT IS NOT POSSIBLE TO INSTALL WITH THE REQUIRED LENGTH.

7 TYPICAL TANK OPENING REINFORCEMENT  
ST306 1 : 20

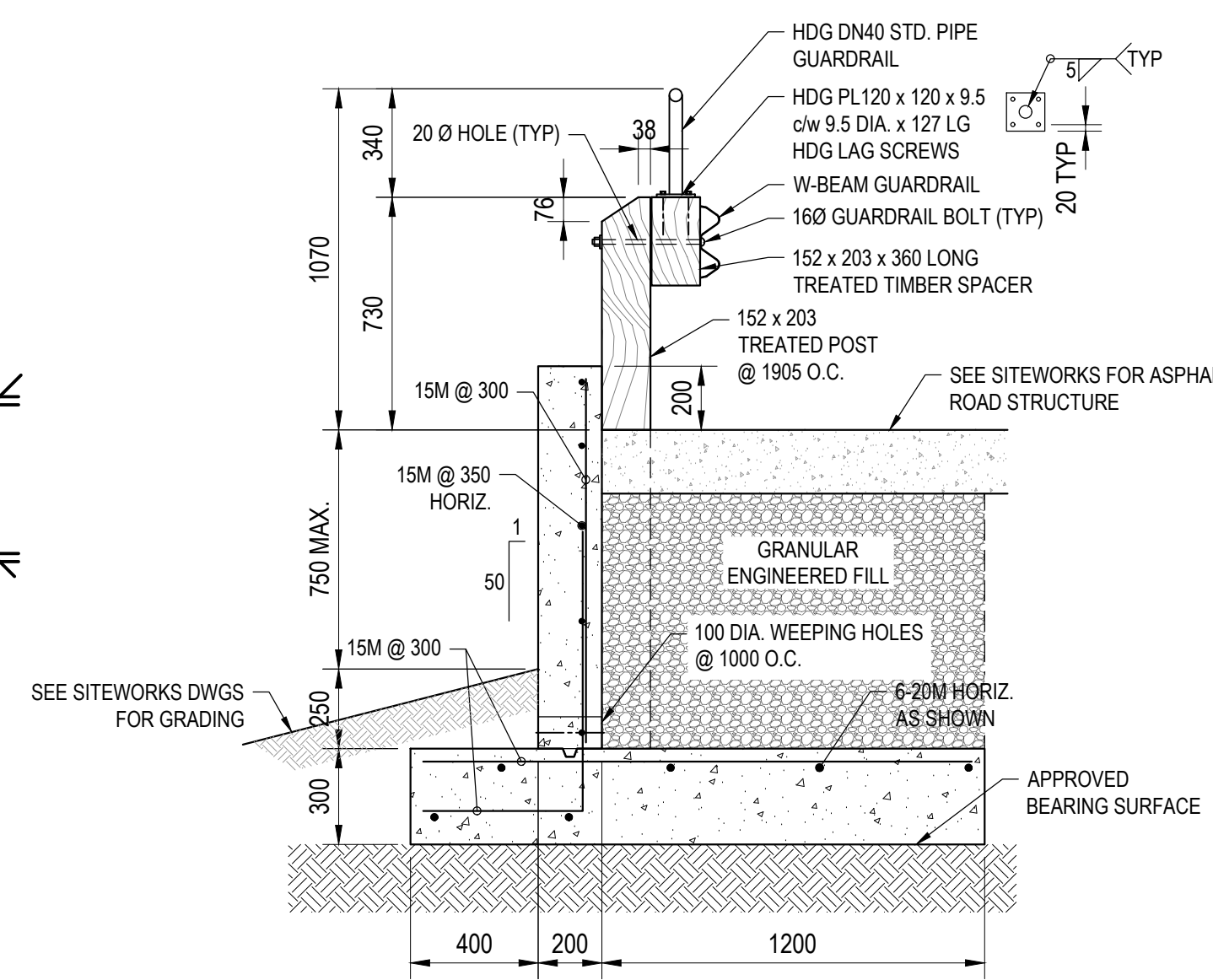


- NOTES:
1. SEE MECH. DRAWINGS FOR SIZE & LOCATIONS OF PADS.

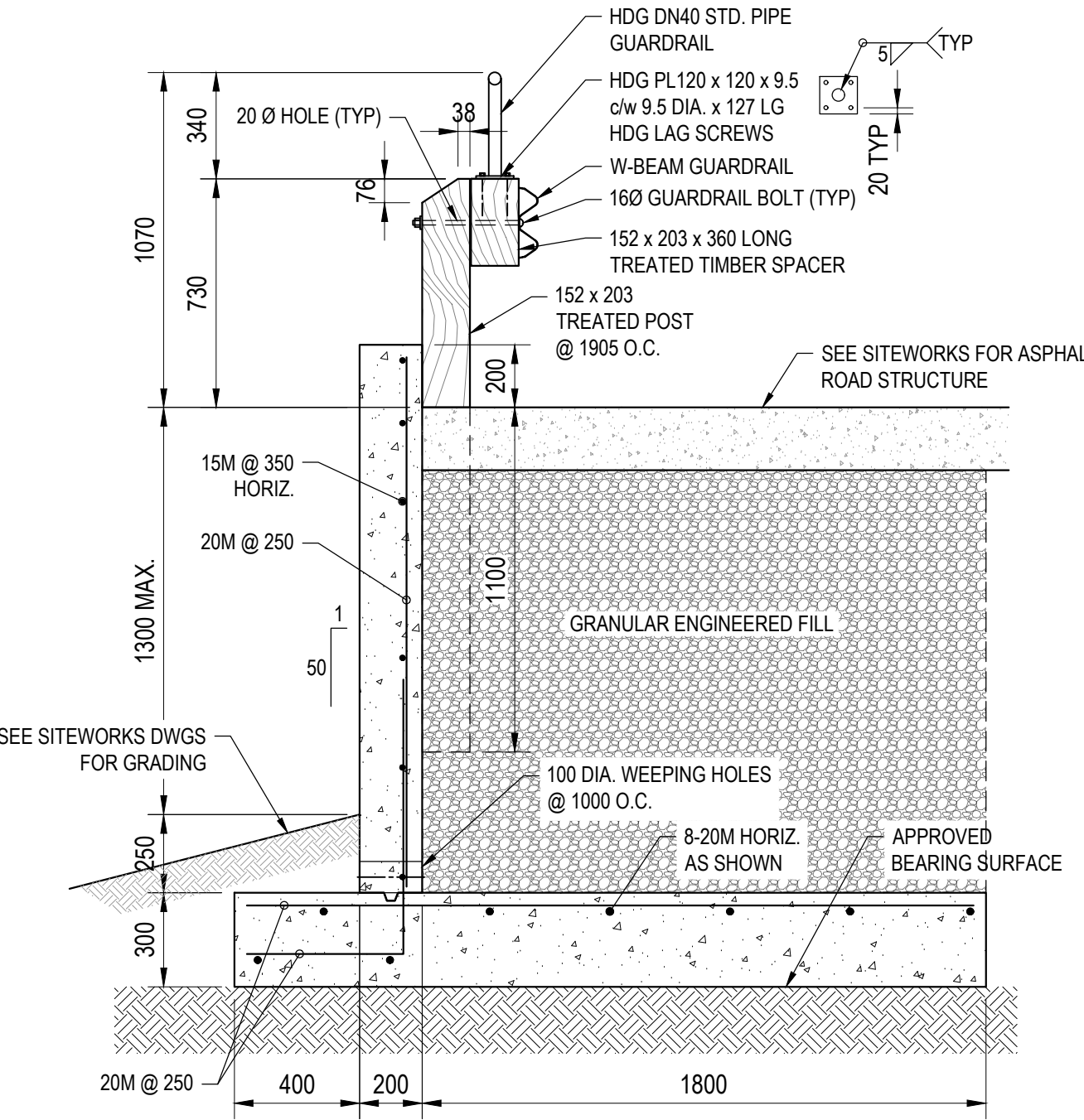
4 HOUSEKEEPING PAD POURED AFTER MAIN POUR  
ST306 1 : 20



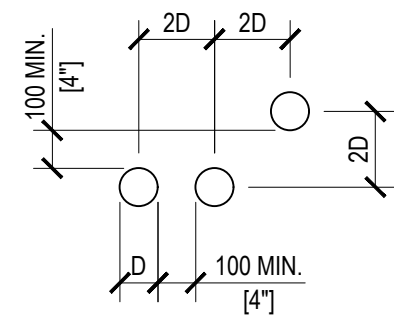
3 CONCRETE CURB LESS THAN 200mm WIDE  
ST306 1 : 20



6 RETAINING WALL SECTION 1.0m MAX. RETAINED SOIL HEIGHT  
ST306 1 : 20

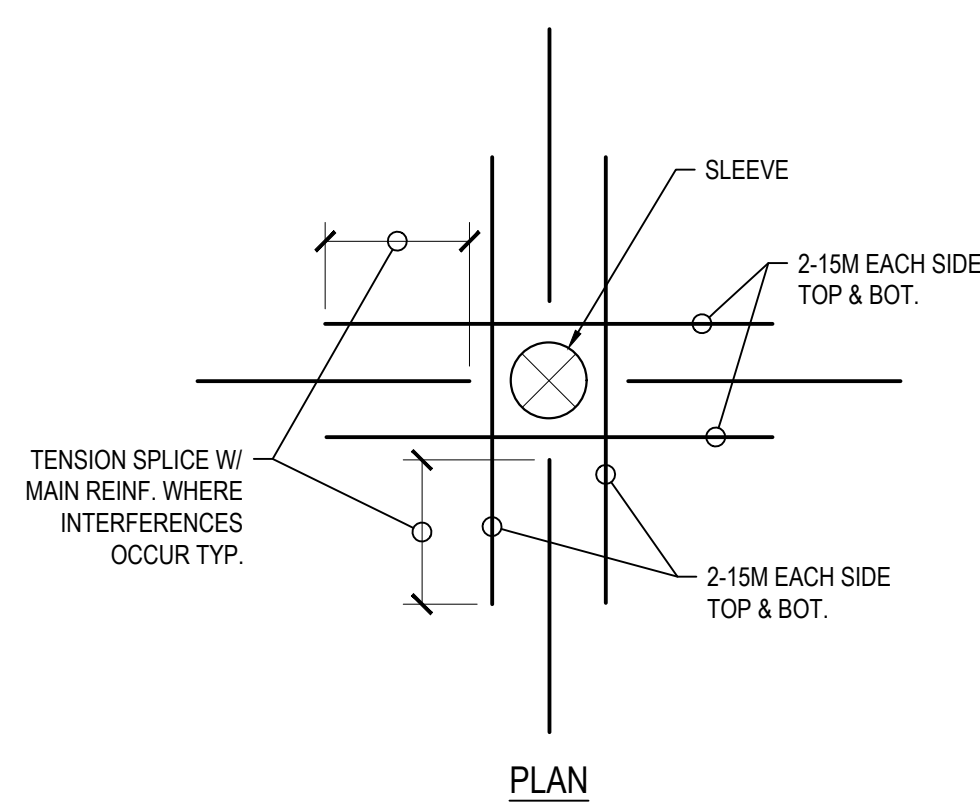


5 RETAINING WALL SECTION 1.55m MAX. RETAINED SOIL HEIGHT  
ST306 1 : 20



- NOTES:
1. SPACING OF SLEEVE THROUGH FLAT SLAB AND WALL TO BE NO LESS THAN
  2. MAXIMUM SLEEVE DIAMETER OF 100 [4"]. INDICATED ABOVE.
  3. MAINTAIN CLEAR DISTANCE OF 1.5x SLAB THICKNESS FROM FACE OF
  4. 50 [2"] MAXIMUM CONDUIT SIZE WITH COLUMN. MIN. SPACING 100 [4"] O.C.
  5. COVER FROM SLEEVE TO NEAREST REINFORCING BAR TO BE 1.5" MINIMUM.
  6. CONDUITS ARE NOT ALLOWED TO CROSS.
  7. WRITTEN PERMISSION FROM ENGINEER IS REQUIRED FOR CONDUITS LARGER THAN 50 [2"].

2 SLEEVE / CONDUIT SPACING THROUGH SLAB AND CONC. WALLS  
ST306 1 : 20



1 REINFORCING AROUND SLEEVES W/ Ø LARGER THAN 100mm [4"]  
ST306 1 : 20

NOTE: THIS DRAWING IS HALF SCALE WHEN PRINTED TO 11" x 17" FORMAT

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No.	DESCRIPTION	BY	DATE
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1	FOR APPROVAL	RC	Nov. 23, 2022

PROFESSIONAL ENGINEER  
ALBERTA  
SHERWOOD PARK  
2023-January-06  
ID# 61349

PERMIT TO PRACTICE  
ISL Engineering and Land Services Ltd.  
RM Signature: *[Signature]*  
RM APEGA ID: 94184  
Date: 2023-01-06  
PERMIT NUMBER: P 4741  
The Association of Professional Engineers and Geoscientists of Alberta

N.T.S.  
Scale  
ISL

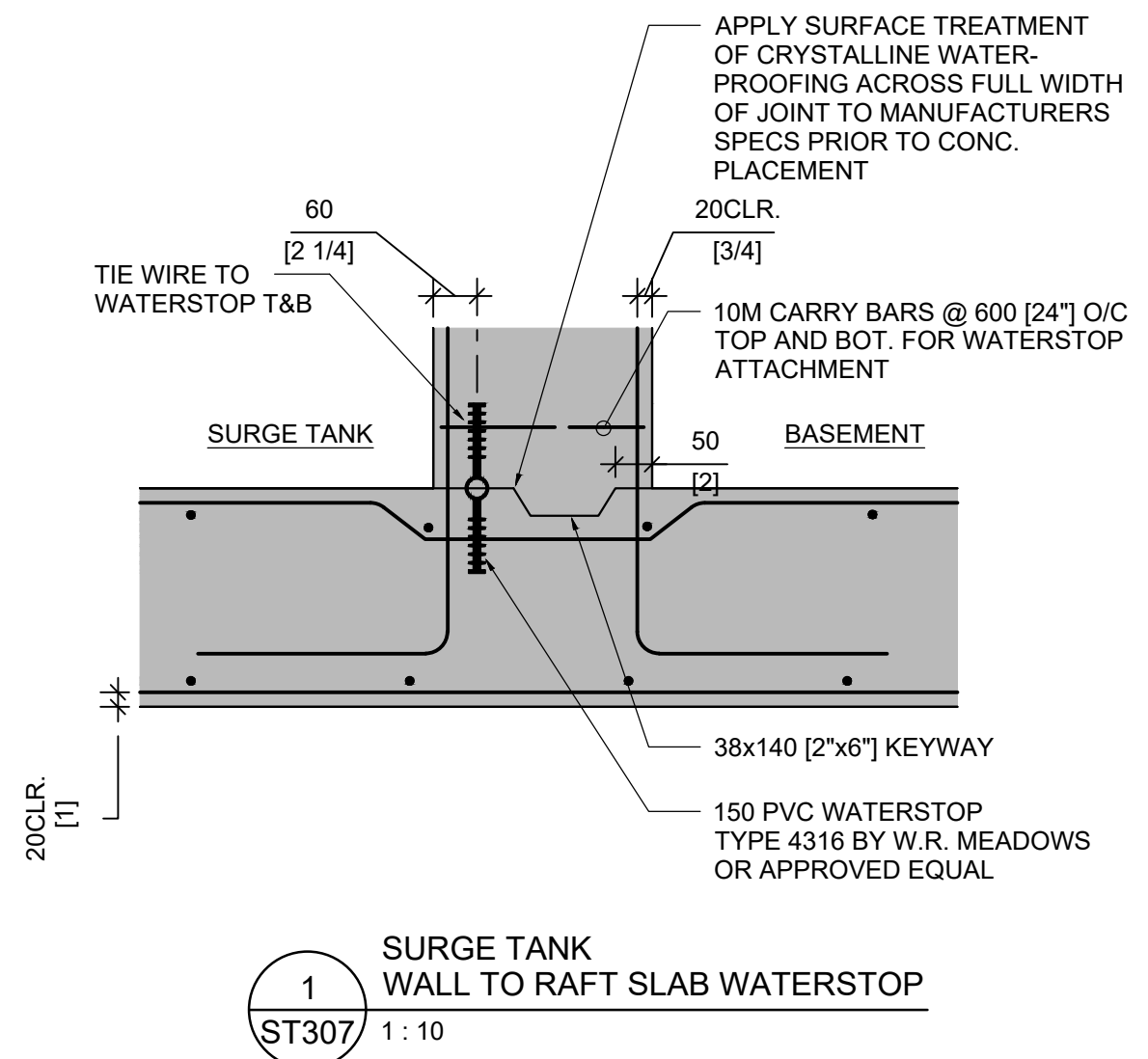
MATTAMY (SHERWOOD PARK) LTD  
HEARTHSTONE SANITARY LIFT STATION  
Drawn: MLL  
Design Checked: RC  
Date: Nov. 23, 2022  
Discipline Review: RC  
Date: Nov. 23, 2022

STRUCTURAL  
GENERAL NOTES AND  
MISCELLANEOUS DETAILS I

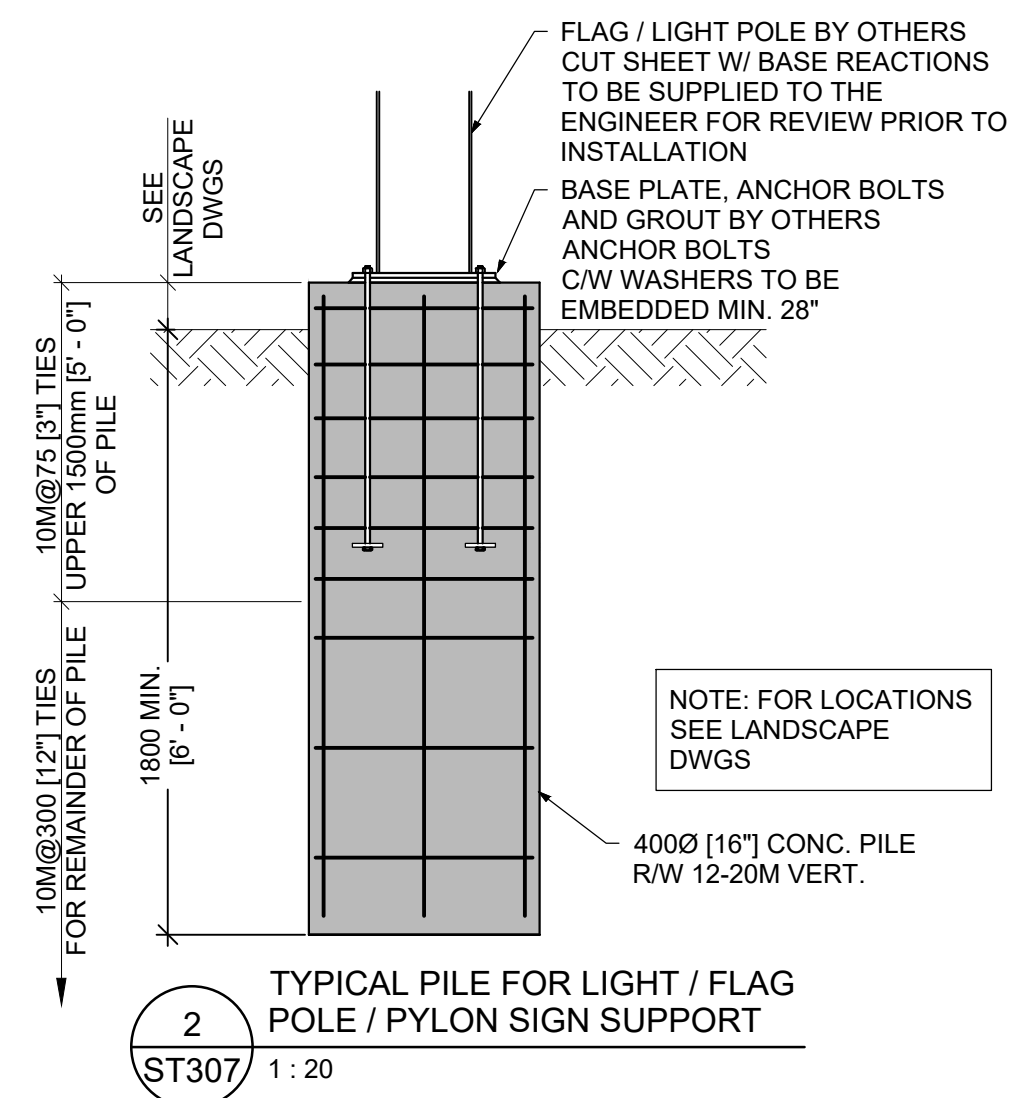
Drawing No.  
15719  
ST  
306  
Sheet No.  
306



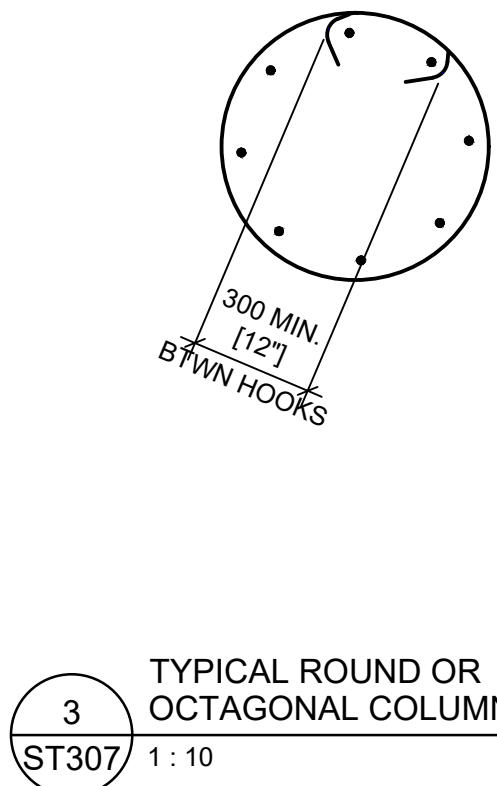
Allen Li | Jan. 4, 23 / G:\Projects\15000\15700\15719\_Cambrian\_Sanitary\_Lift\_Station\02\_CADD\02\_Drafting\2023\_DWG\300\_Structural\15719 - Structural Details 2.dwg



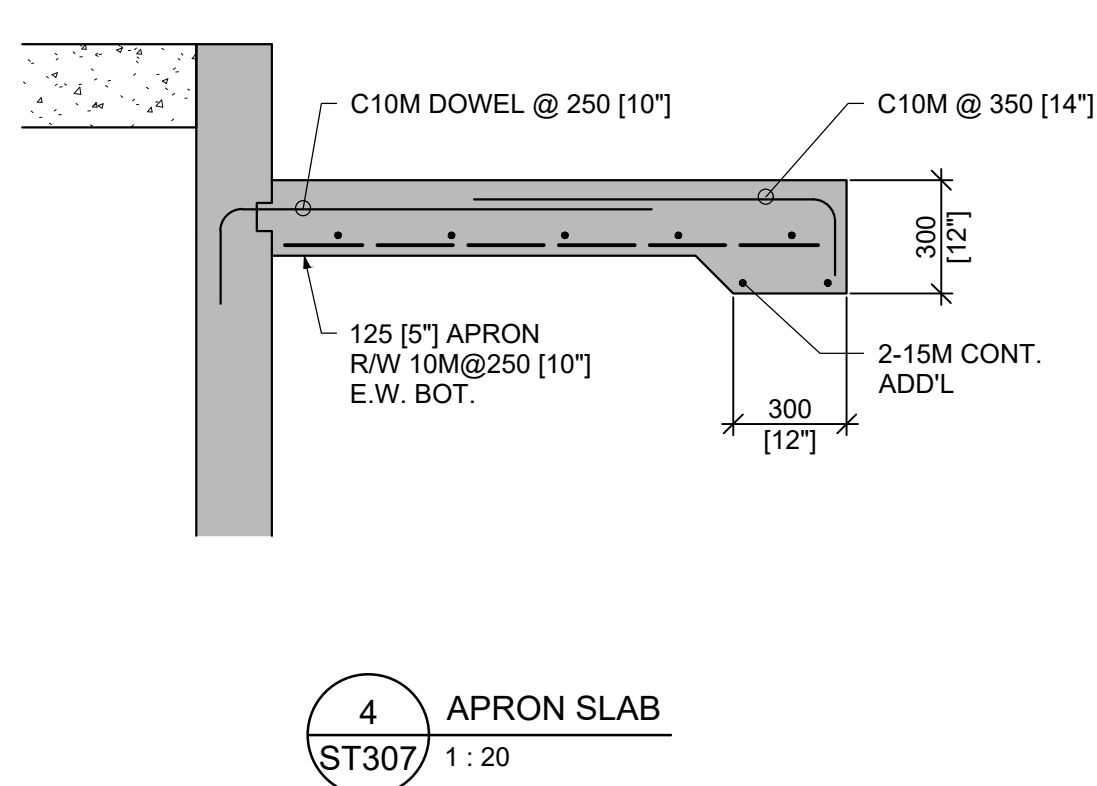
1 SURGE TANK WALL TO RAFT SLAB WATERSTOP  
ST307 1 : 10



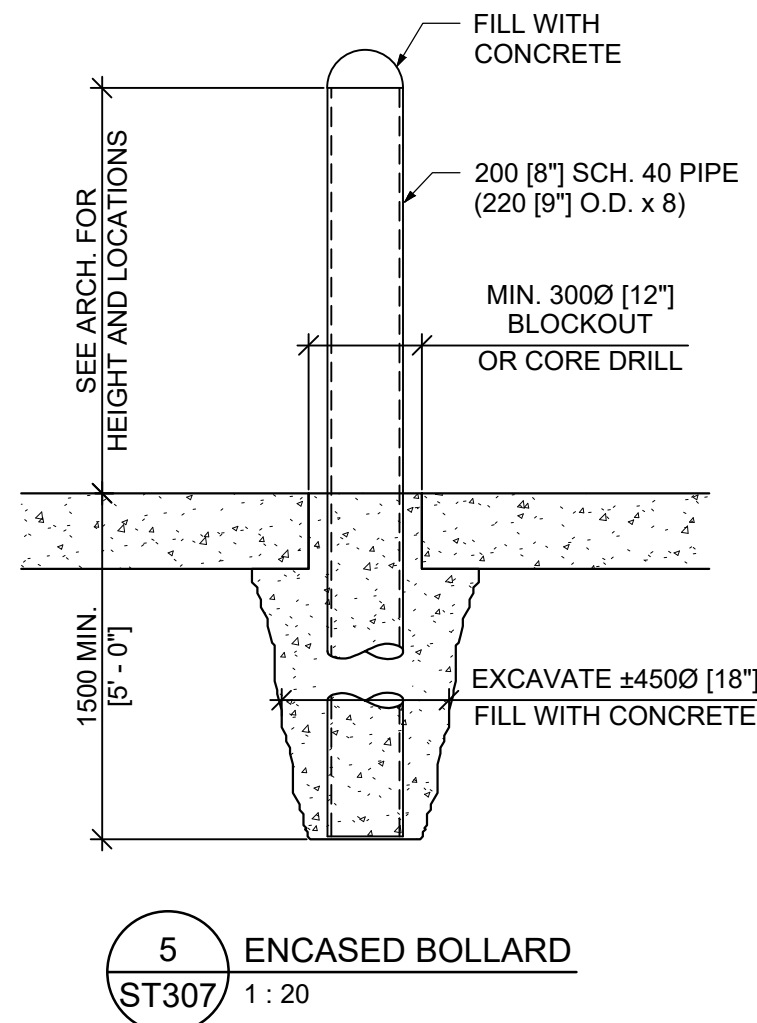
2 TYPICAL PILE FOR LIGHT / FLAG POLE / PYLON SIGN SUPPORT  
ST307 1 : 20



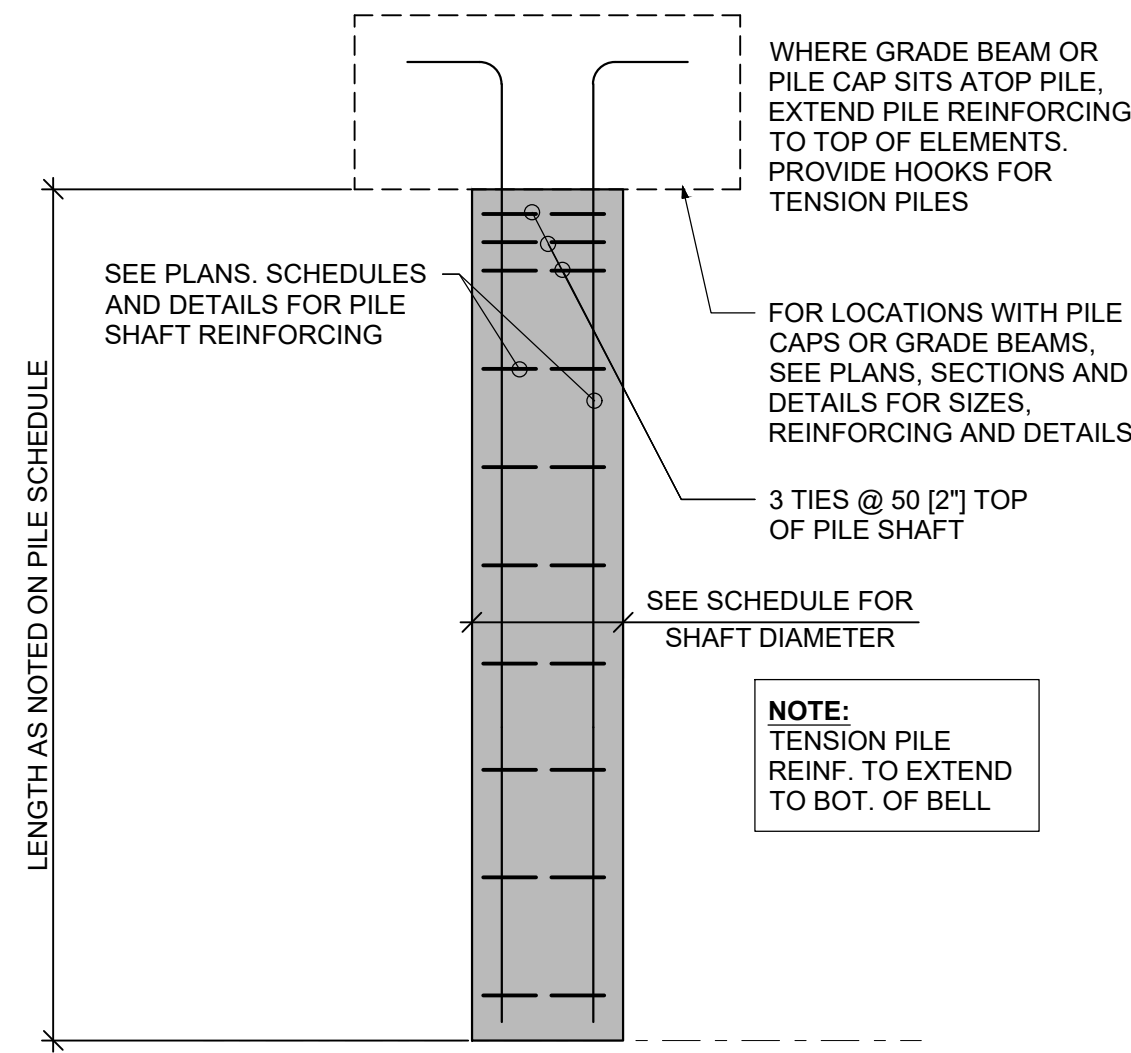
3 TYPICAL ROUND OR OCTAGONAL COLUMN TIES  
ST307 1 : 10



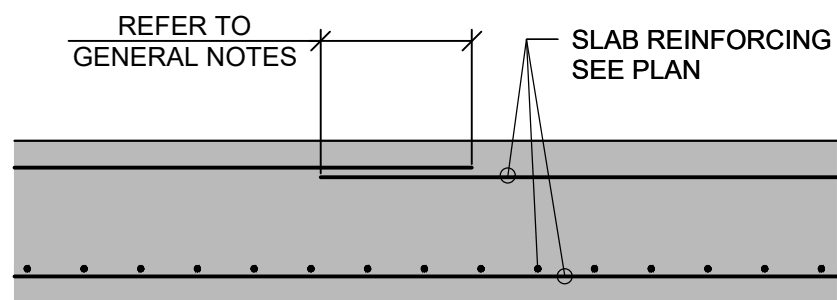
4 APRON SLAB  
ST307 1 : 20



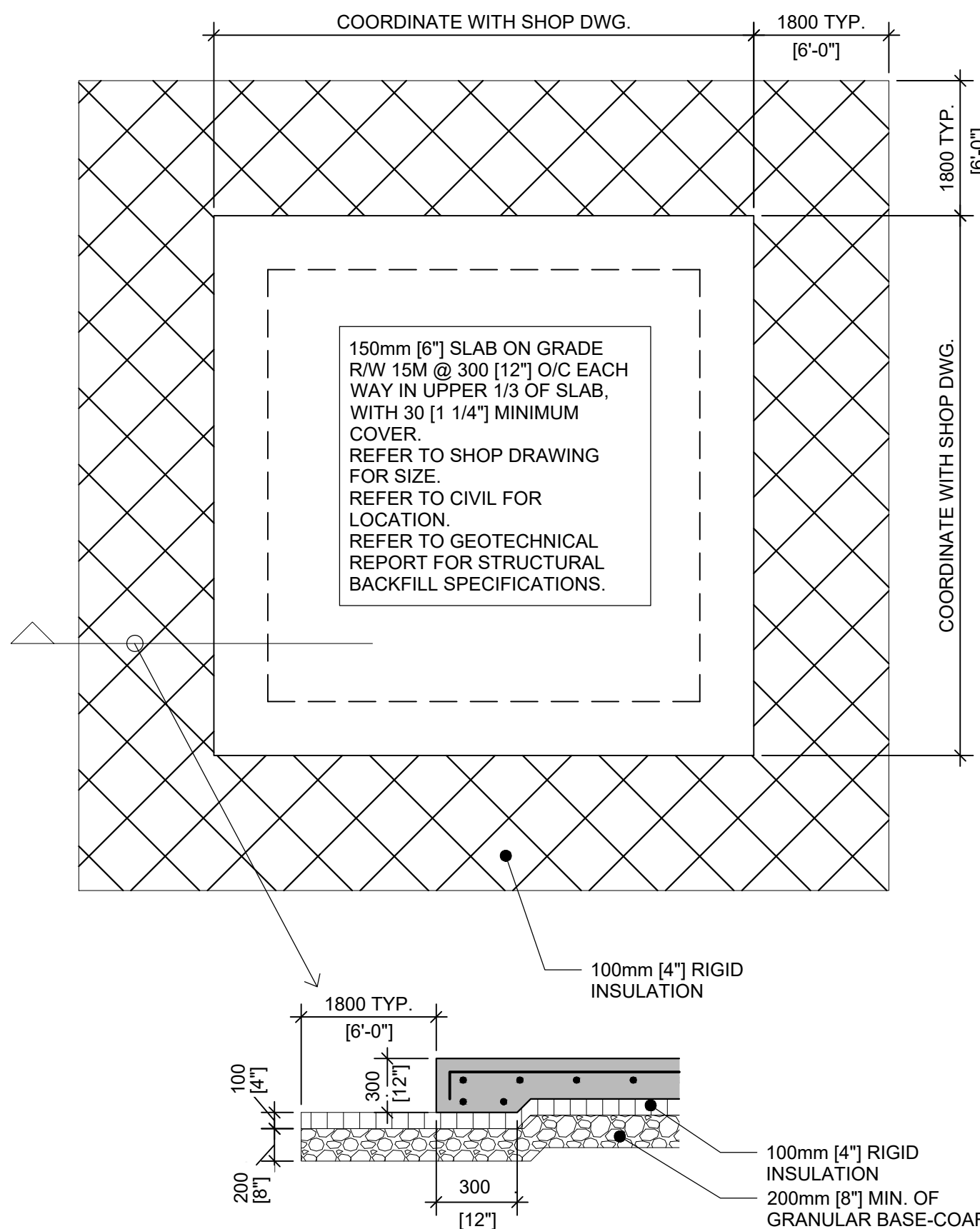
5 ENCASED BOLLARD  
ST307 1 : 20



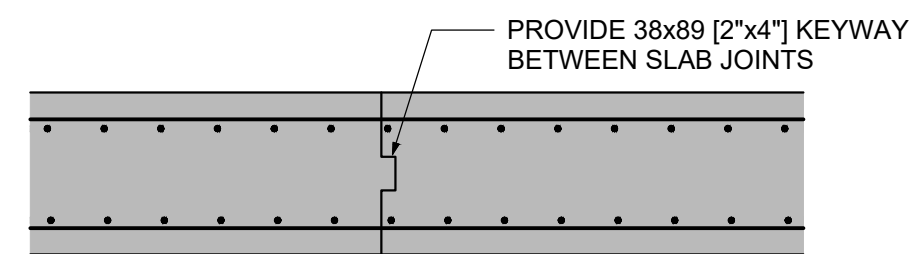
6 TYPICAL PILE - U.N.O.  
ST307 1 : 20



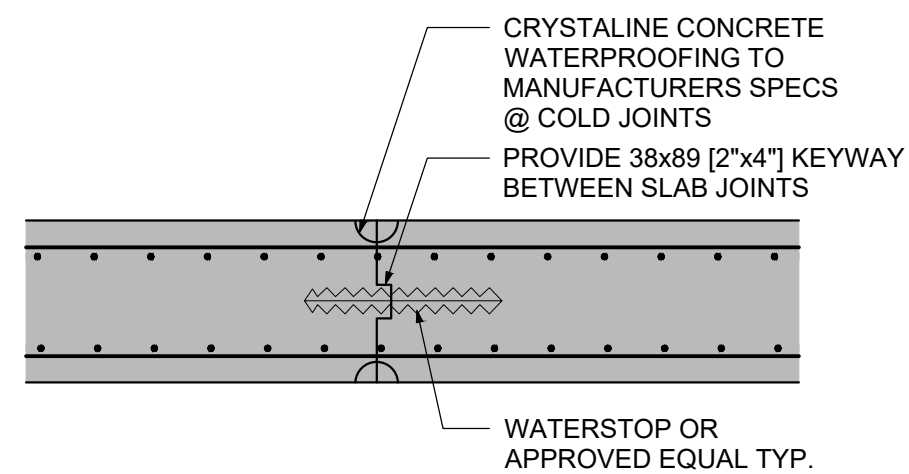
9 REINFORCING LAP IN WALL OR STRUCTURAL SLAB U.N.O.  
ST307 1 : 20



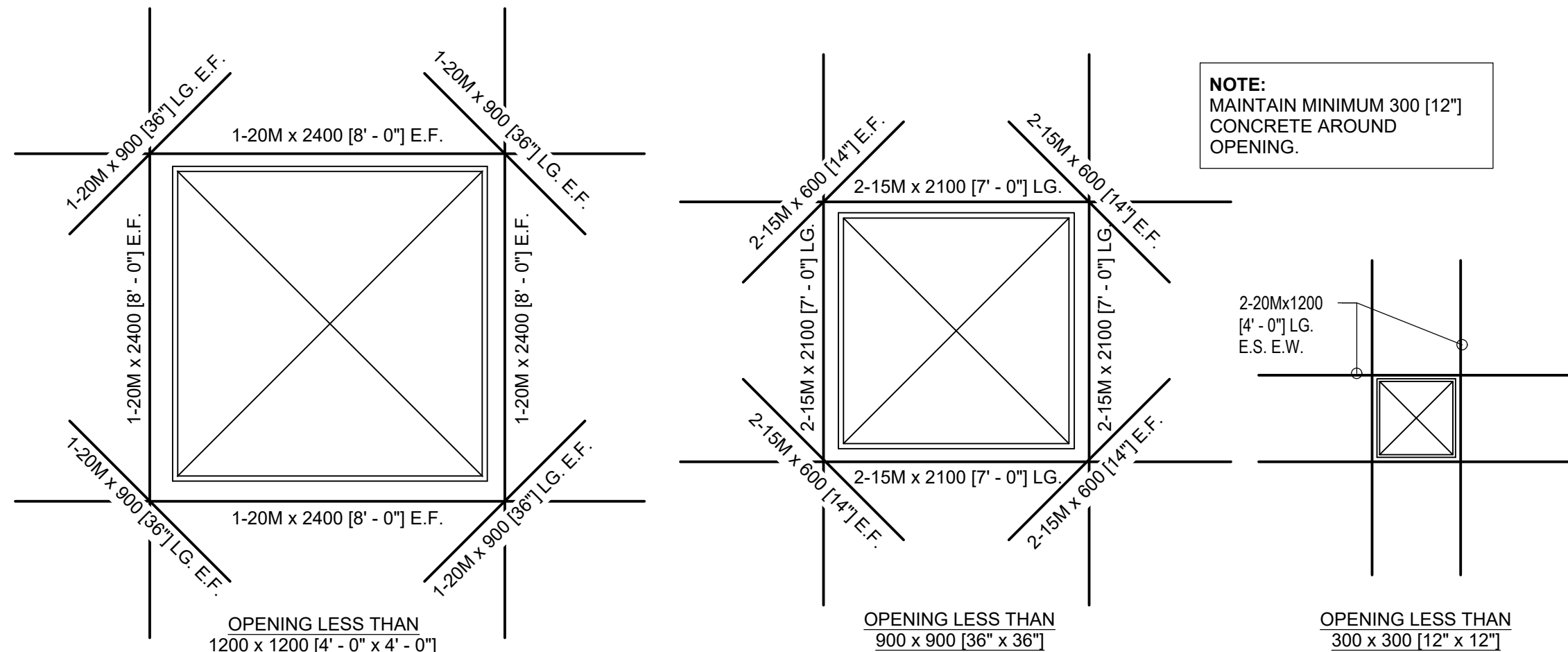
10 EXTERIOR GENERATOR PAD  
ST307 1 : 10



7 CONSTRUCTION JOINT IN STRUCTURAL SLAB  
ST307 1 : 20



8 CONSTRUCTION JOINT IN WATER RETAINING STRUCTURAL SLAB  
ST307 1 : 20



11 REINFORCEMENT FOR OPENING IN SLAB / WALLS  
ST307 1 : 20

NOTE: THIS DRAWING IS HALF SCALE WHEN PRINTED TO 11" x 17" FORMAT

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2	FOR APPROVAL	RC	Jan. 6, 2023
1	FOR APPROVAL	RC	Nov. 23, 2022



PERMIT TO PRACTICE  
ISL Engineering and Land Services Ltd.  
RM Signature: [Signature]  
RM APEGA ID: 94184  
Date: 2023-01-06  
PERMIT NUMBER: P 4741  
The Association of Professional Engineers and Geoscientists of Alberta

AS SHOWN  
Scale  
ISL

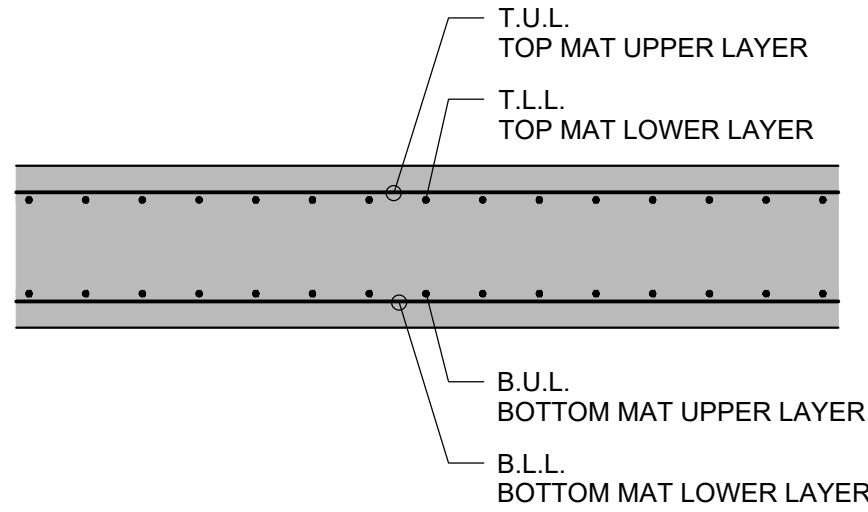
MATTAMY (SHERWOOD PARK) LTD  
HEARTHSTONE SANITARY LIFT STATION  
Drawn: MLL  
Design Checked: RC  
Discipline Review: RC  
Date: Nov. 23, 2022

STRUCTURAL MISCELLANEOUS DETAILS II

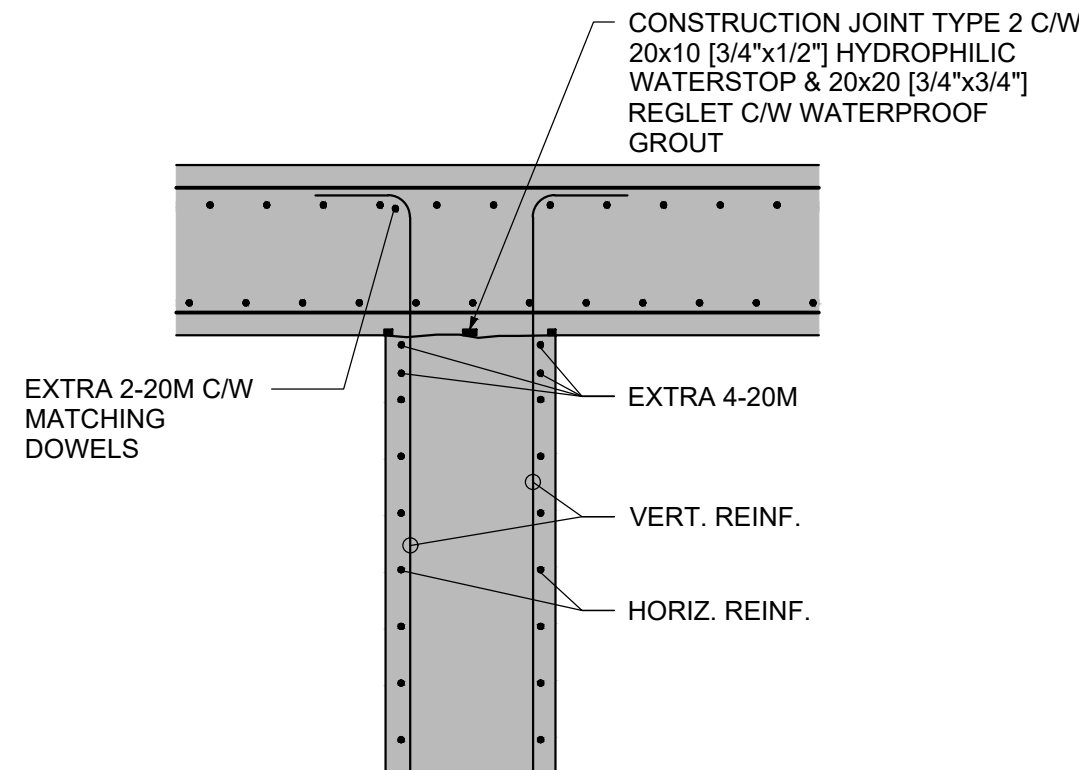
Drawing No.  
15719 ST 307  
Sheet No.  
307



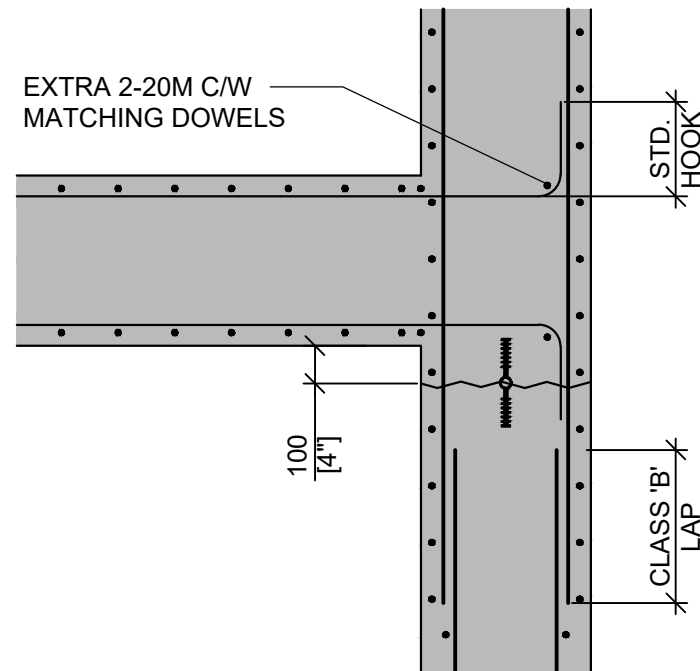
Allen Li | Jan. 4, 23 | G:\Projects\15000\15700\15719 - Cambrian Sanitary Lift Station\02\_CADD\02\_Drafting\2023\_DWG\300\_Structural\15719 - Structural Details 2.dwg



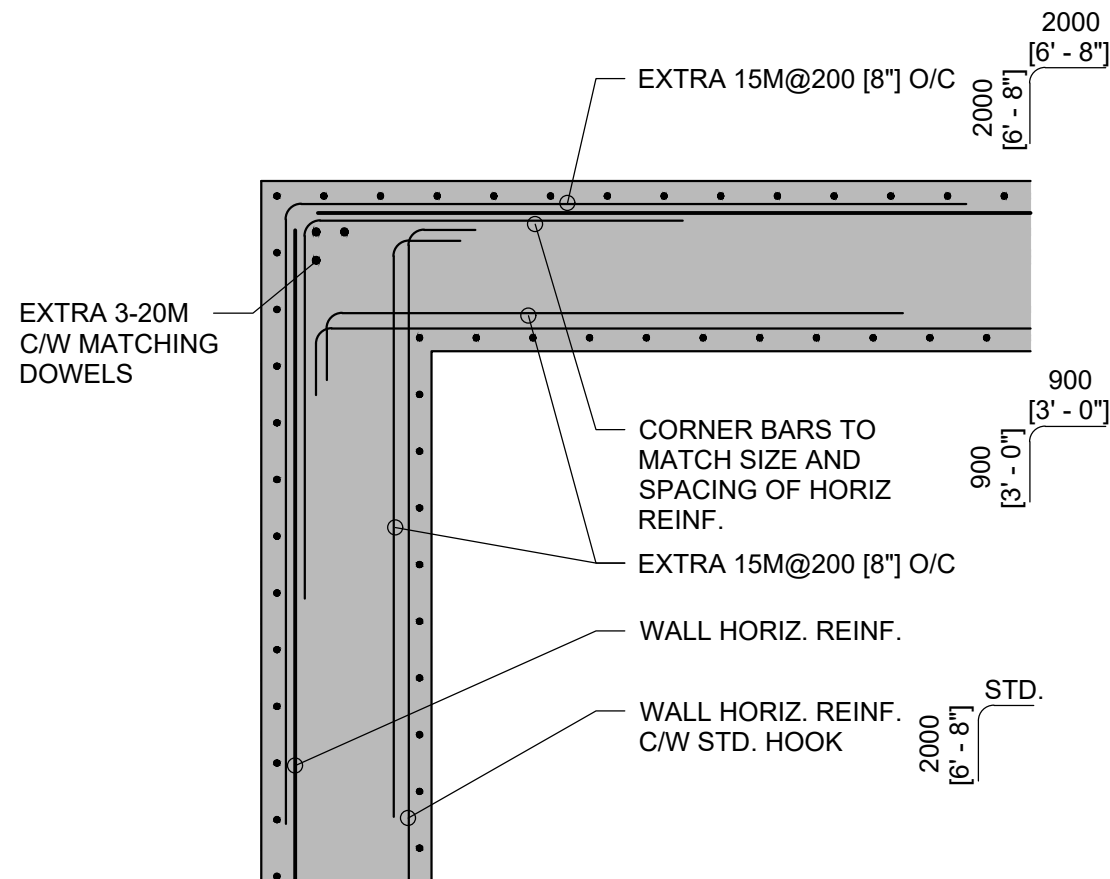
1 STRUCTURAL SLAB REBAR PROFILE  
ST308 1:20



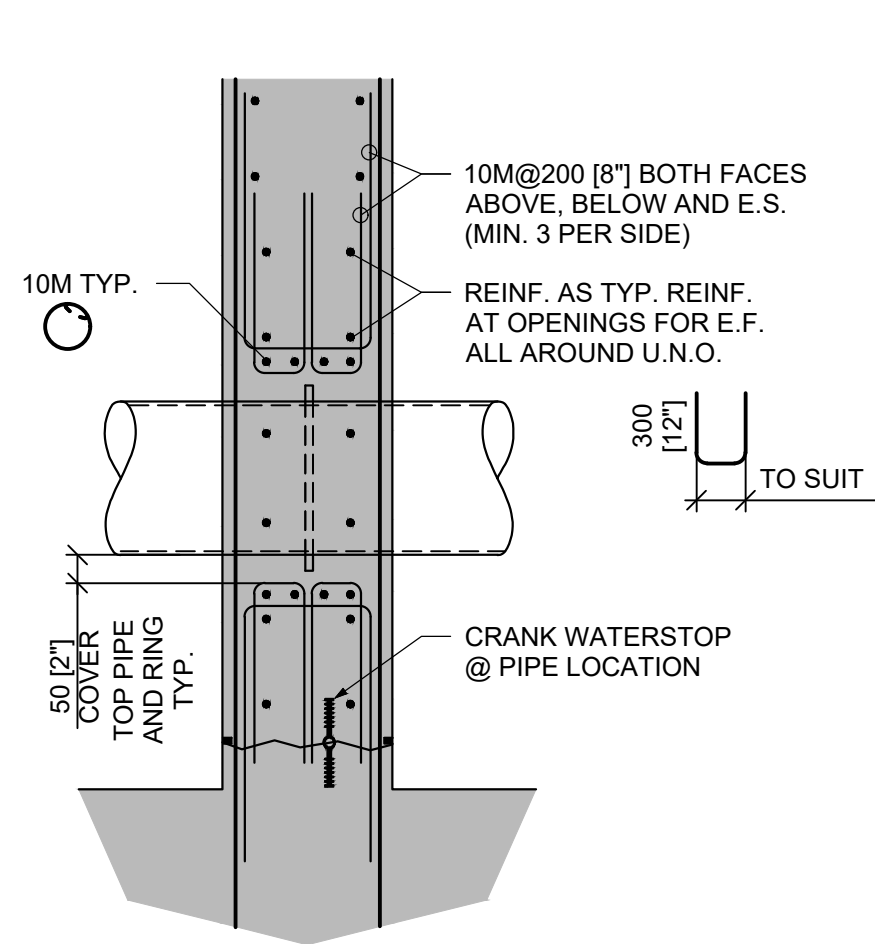
2 TANK - REINFORCEMENT @ WALL JUNCTIONS - PLAN  
ST308 1:20



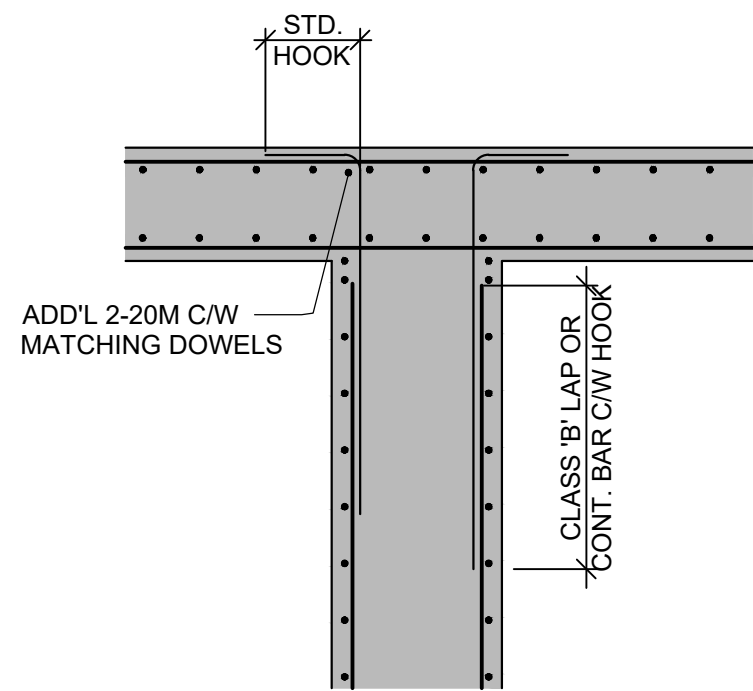
3 TANK - REINFORCEMENT @ WALL JUNCTIONS - PLAN  
ST308 1:20



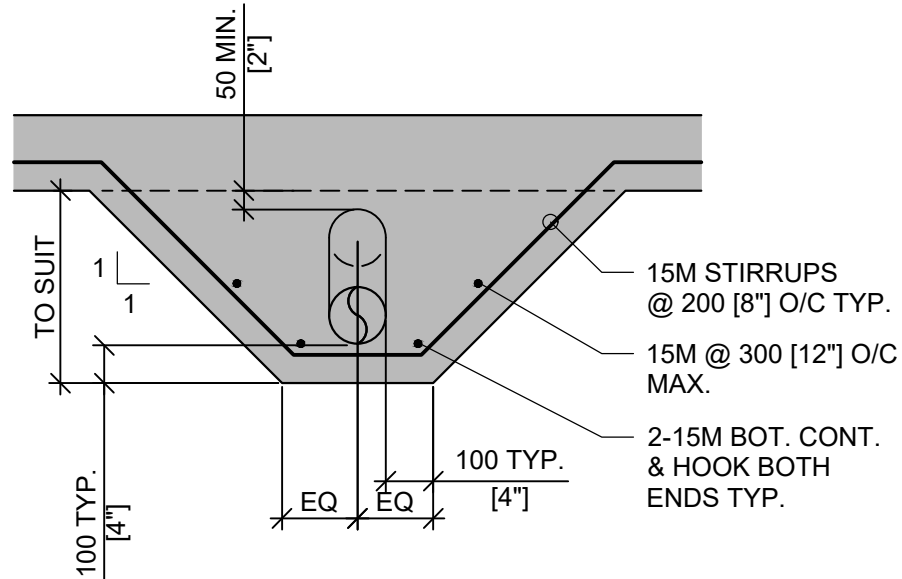
4 TANK - REINFORCEMENT PLAN @ WALL CORNERS  
ST308 1:20



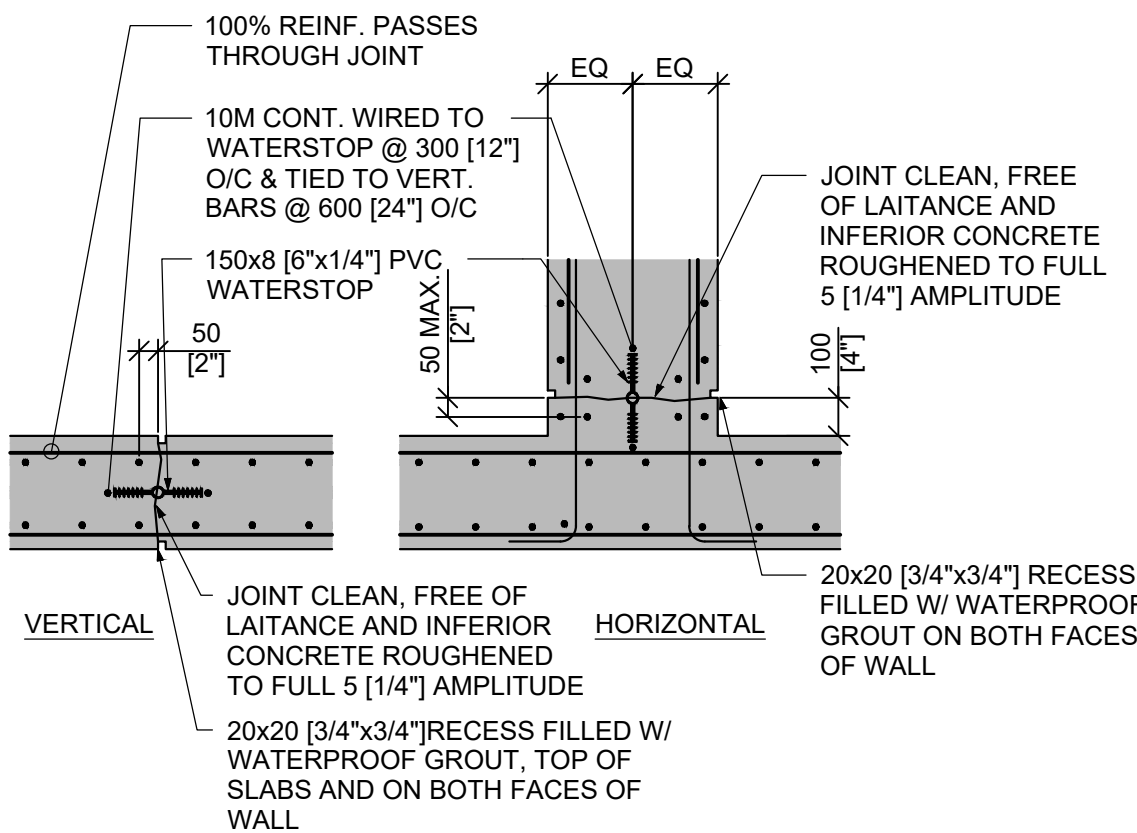
5 TANK - REINFORCEMENT @ THRUST RINGS OR SEAL PLATES U.N.O.  
ST308 1:20



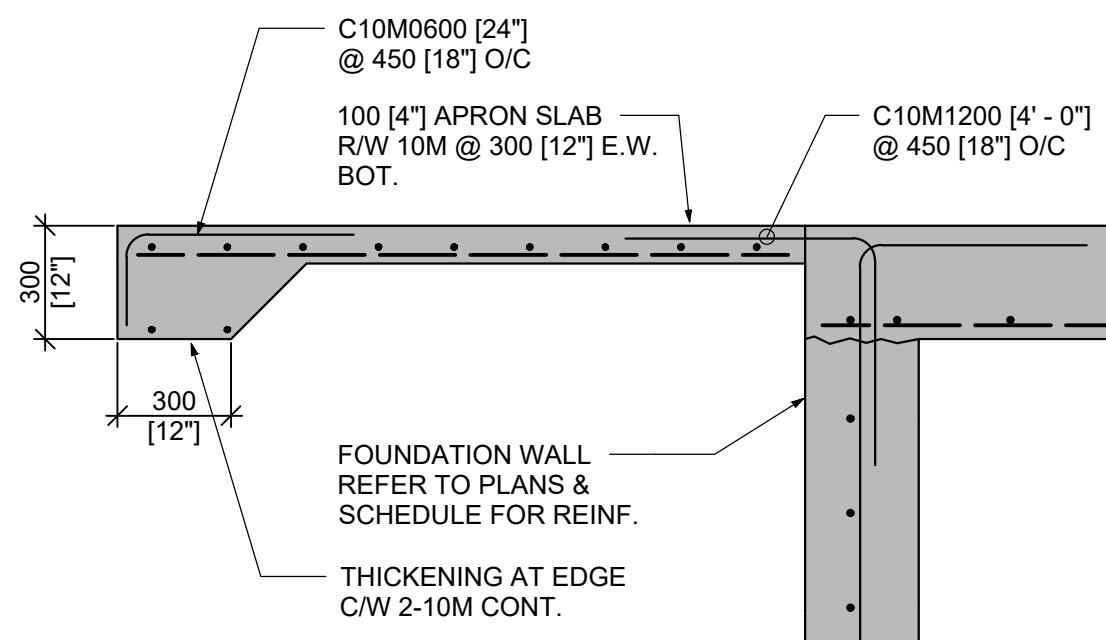
6 TANK - REINFORCEMENT @ INTERIOR WALL TO SUSPENDED SLAB  
ST308 1:20



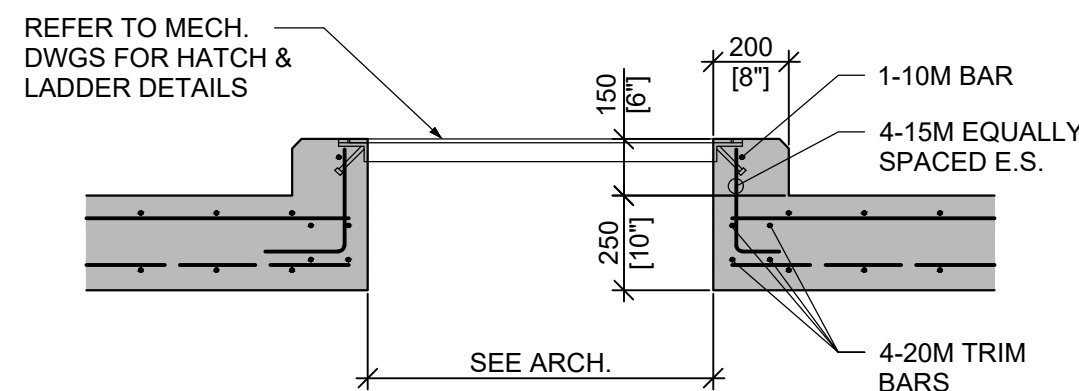
7 PIPE OR CONDUIT ENCASEMENT  
ST308 1:20



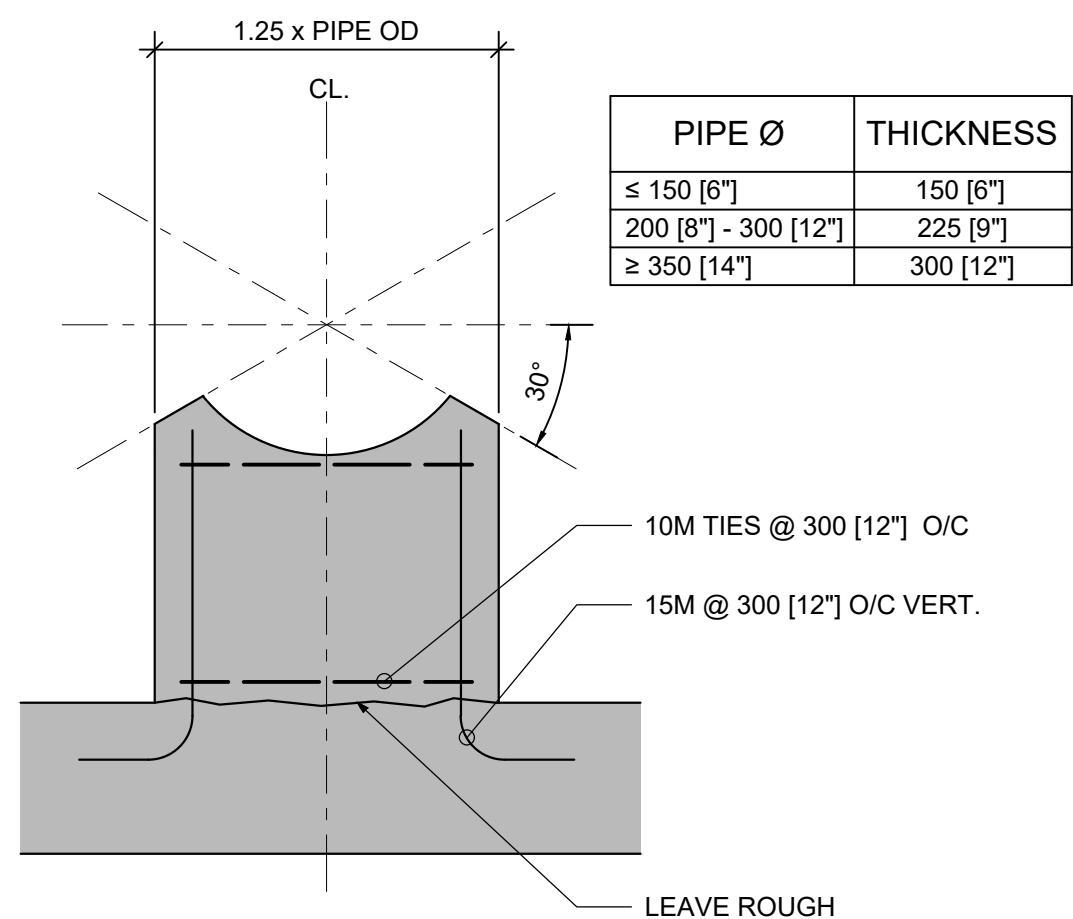
8 TANK - CONSTRUCTION JOINT TYPE 1  
ST308 1:20



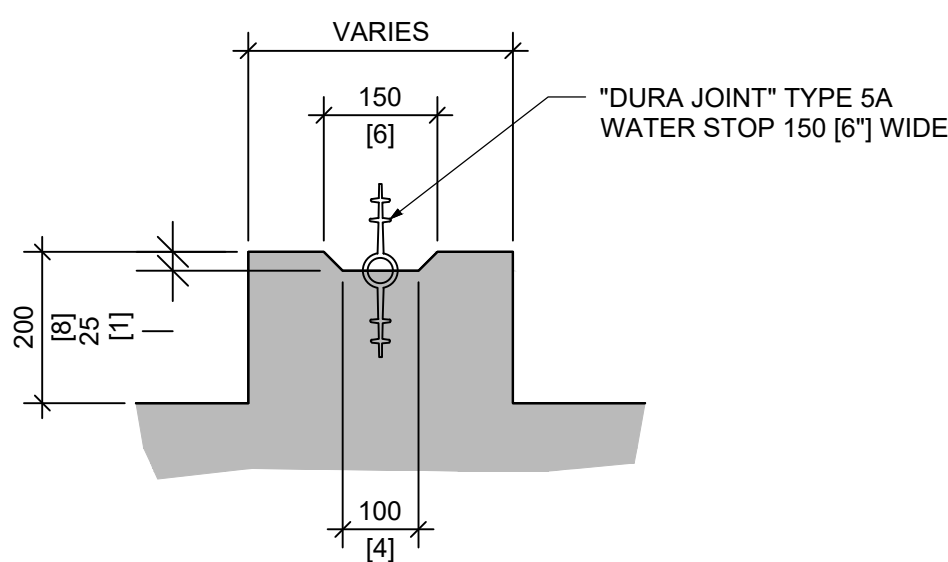
9 TYPICAL APRON SLAB DETAIL  
ST308 1:20



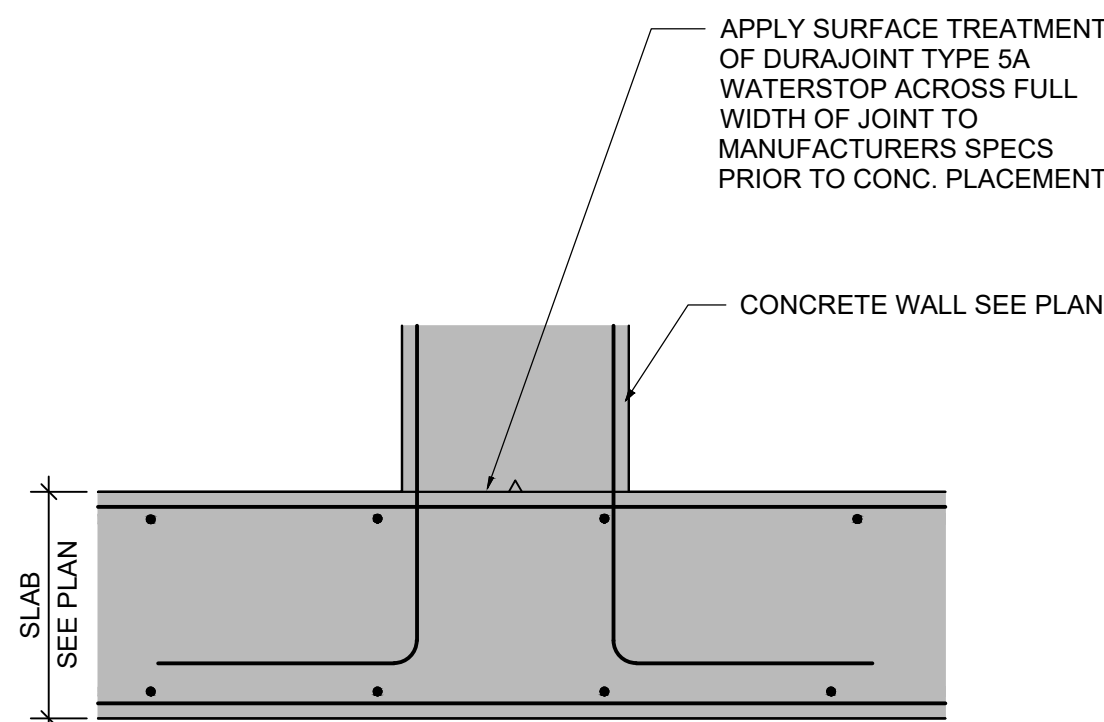
10 TYPICAL HATCH OPENING  
ST308 1:20



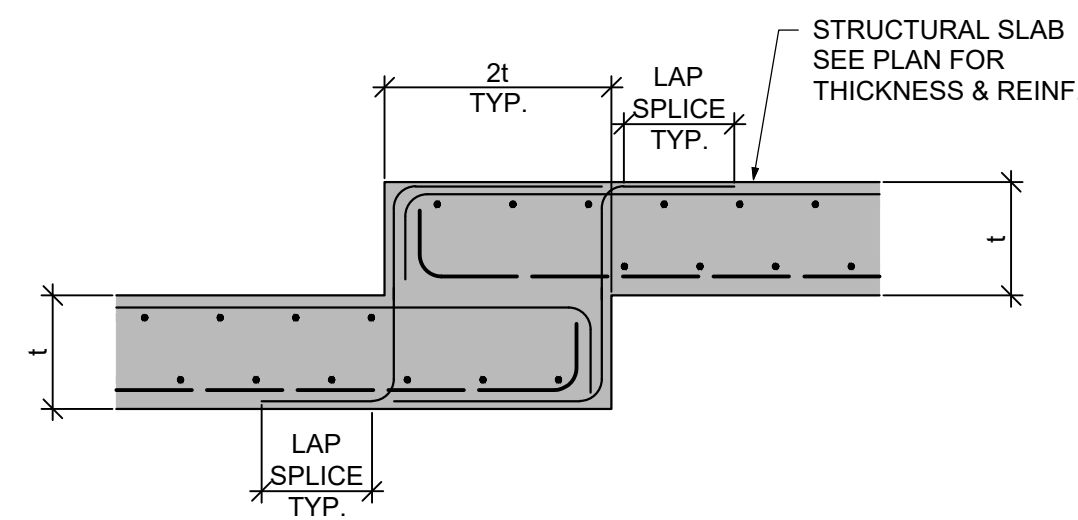
11 TYPICAL PIPE SUPPORT  
ST308 1:10



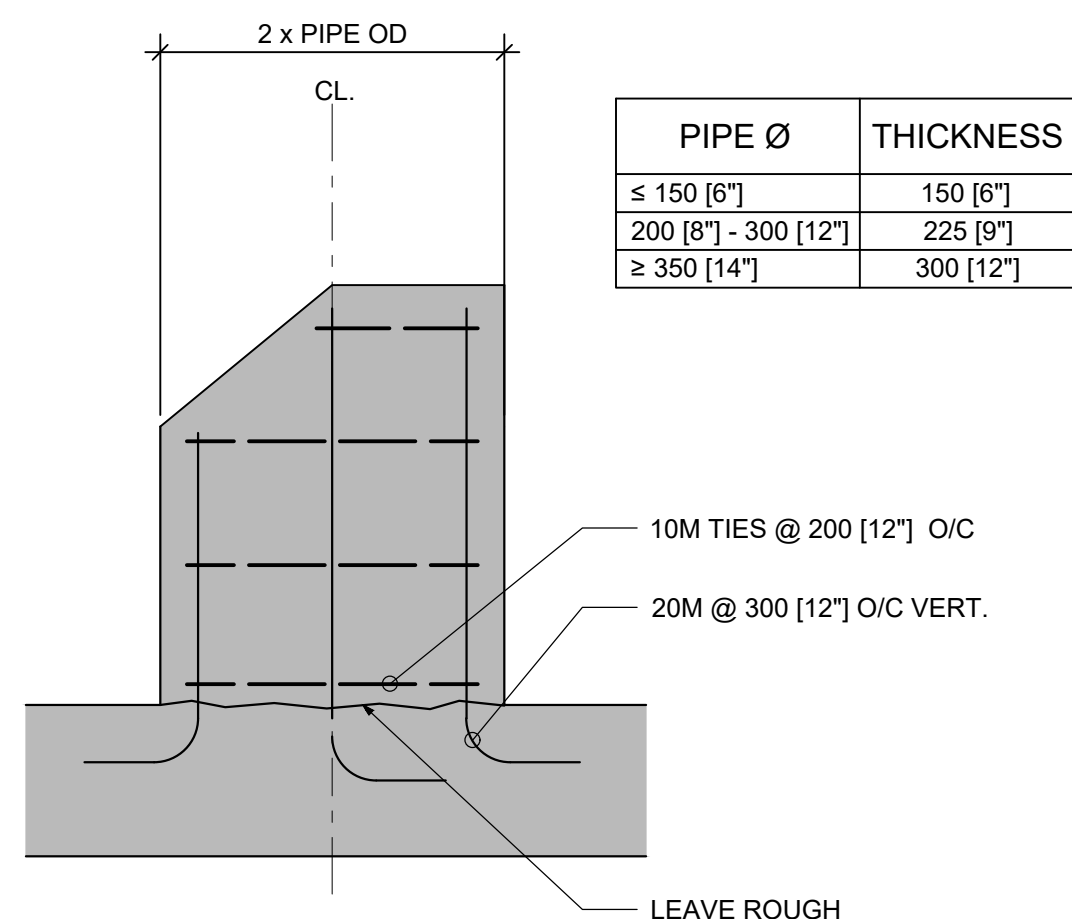
12 TYPICAL WATERSTOP DETAIL  
ST308 1:10



13 TYPICAL WATERSTOP DETAIL - ALTERNATE  
ST308 1:10



14 CONCRETE SLAB STEP DETAIL  
ST308 1:20

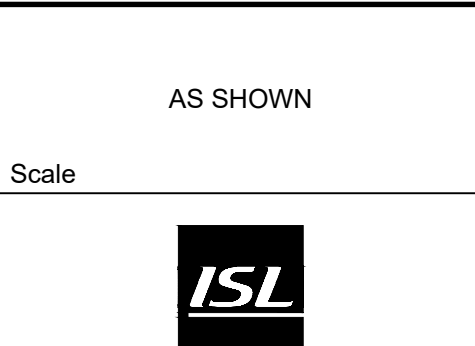
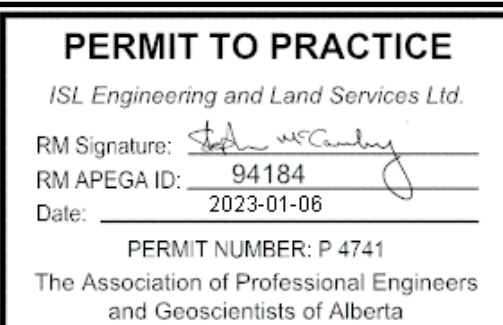


15 TYPICAL PIPE SUPPORT  
ST308 1:10

NOTE: THIS DRAWING IS  
HALF SCALE WHEN PRINTED  
TO 11" x 17" FORMAT

FOR APPROVAL

No.	DESCRIPTION	BY	DATE
2	FOR APPROVAL	RC	Jan. 6, 2023
1	FOR APPROVAL	RC	Nov. 23, 2022
REVISIONS			



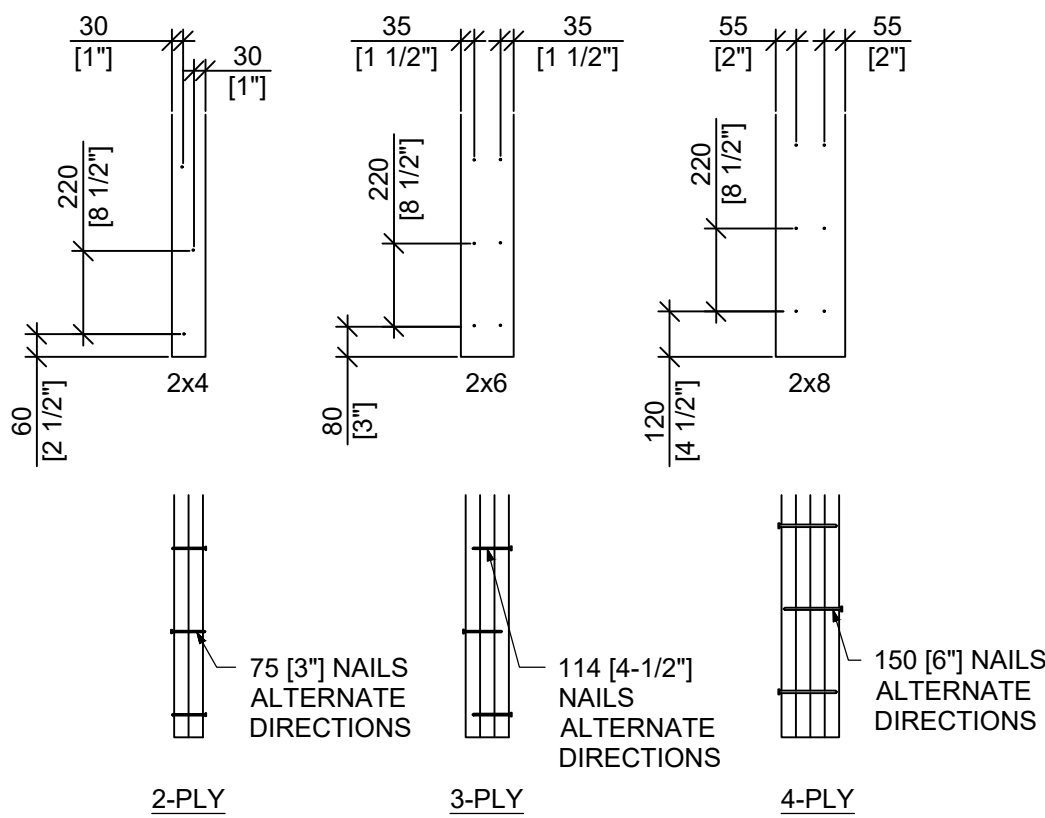
MATTAMY (SHERWOOD PARK) LTD		
HEARTHSTONE SANITARY LIFT STATION		
Drawn: MLL	Design Checked: RC	Date: Nov. 23, 2022
Designed: KI	Discipline Review: RC	Date: Nov. 23, 2022

STRUCTURAL  
MISCELLANEOUS DETAILS III

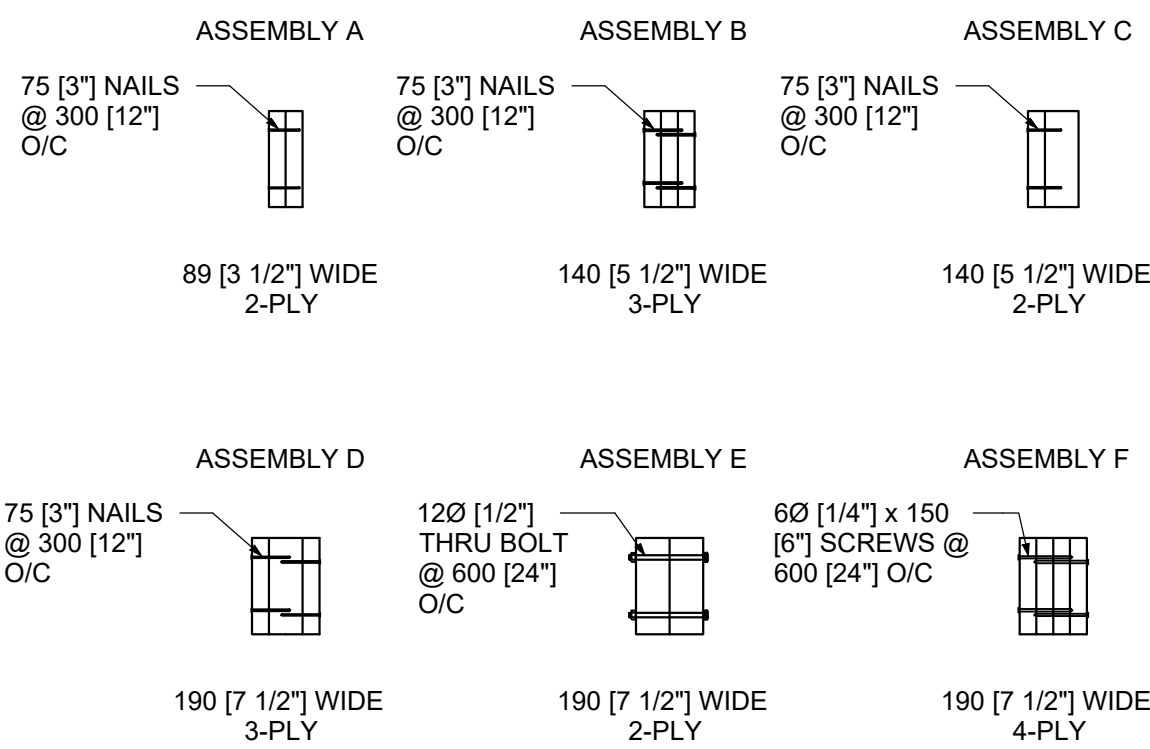
Drawing No.  
15719  
ST  
308  
Sheet No.  
308



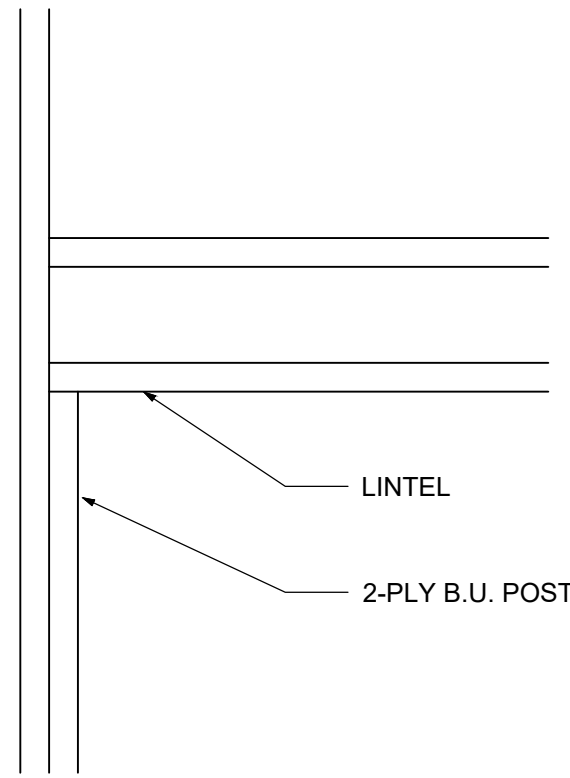
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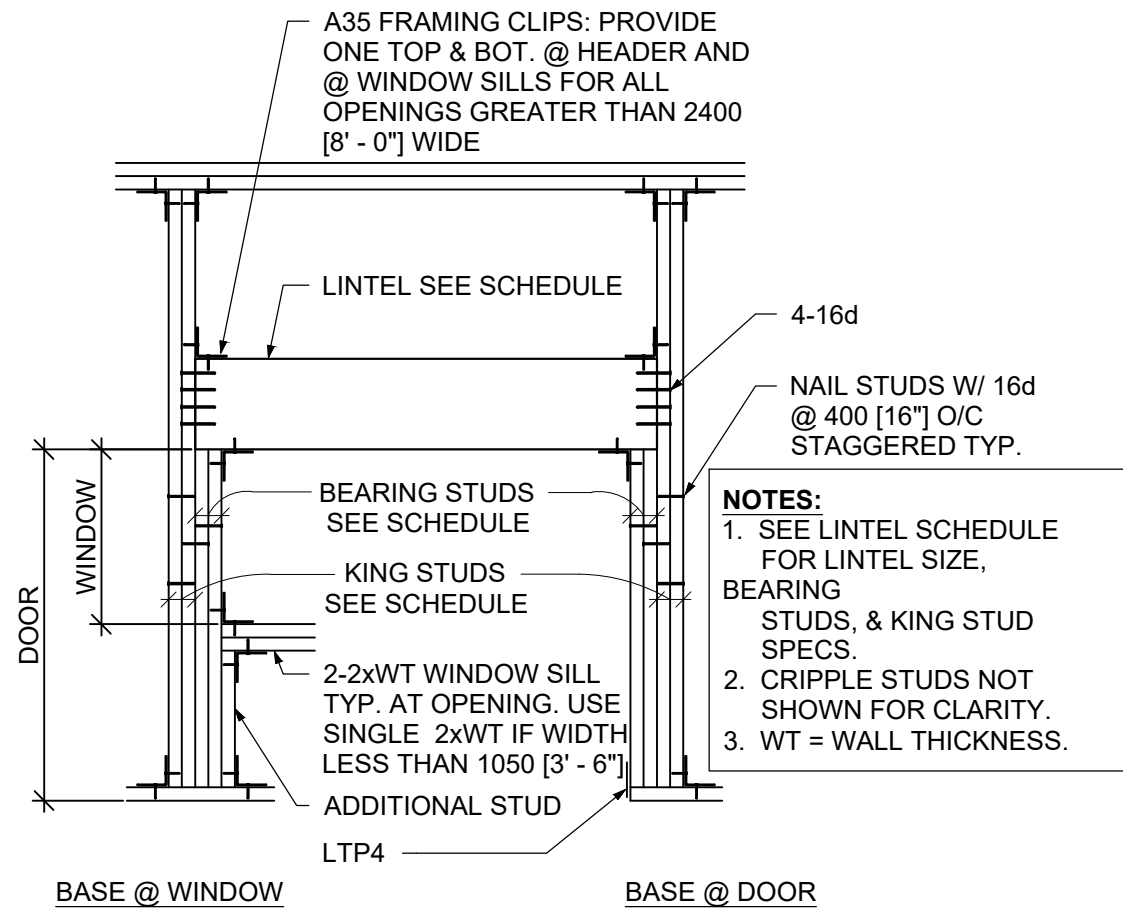
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ST309  
BUILT-UP POST NAILING DETAILS  
1 : 20



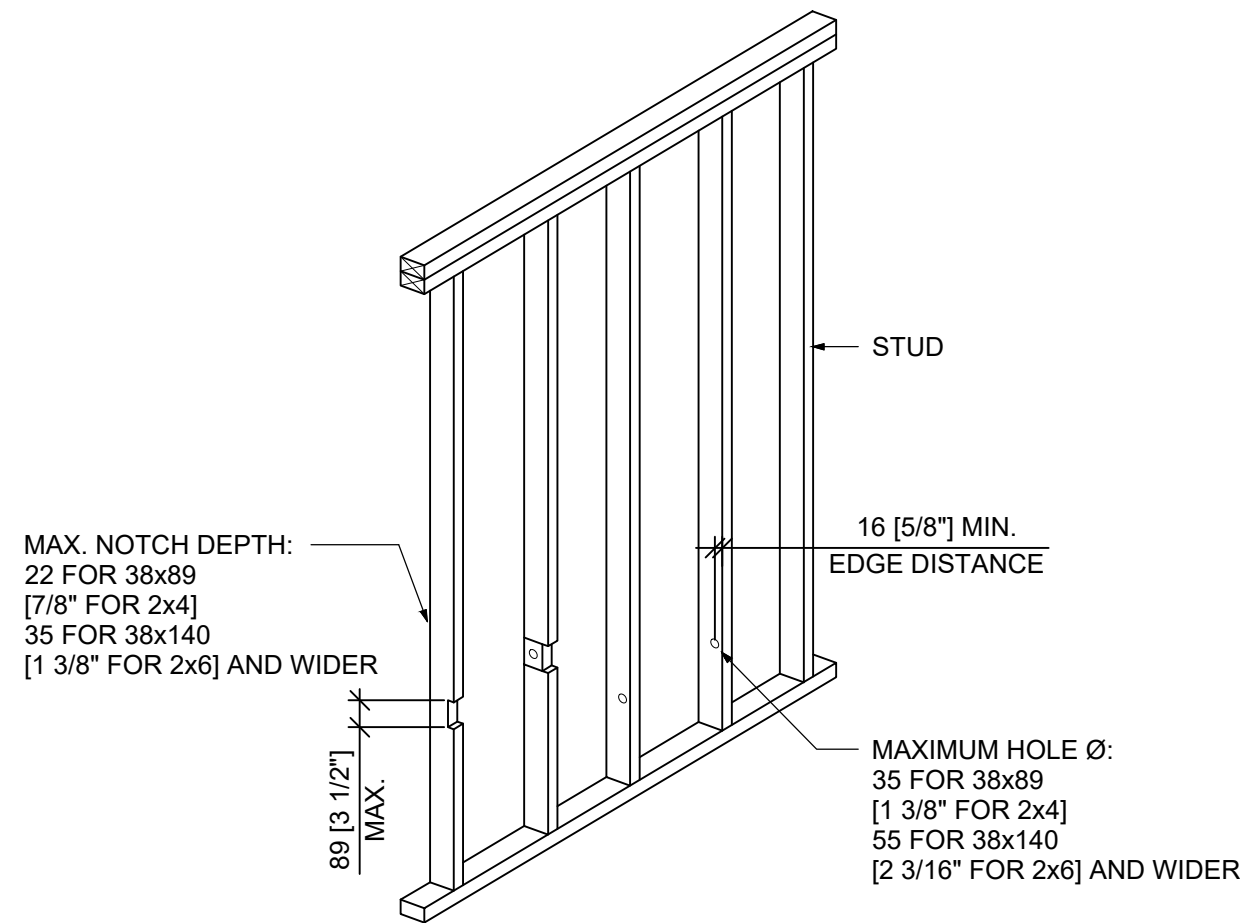
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ST309  
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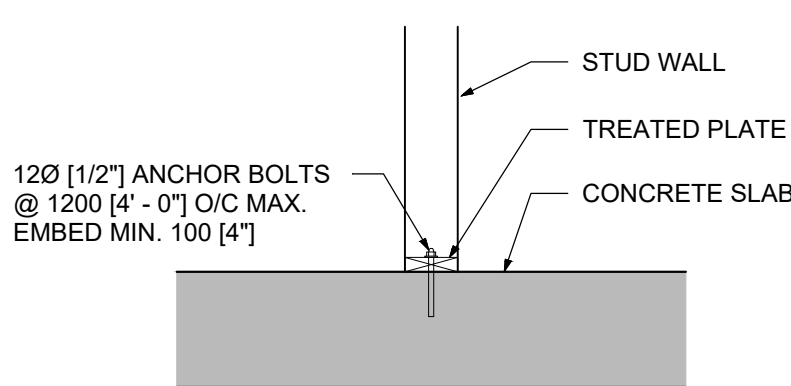
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ST309  
TYPICAL 2-PLY POST  
1 : 10



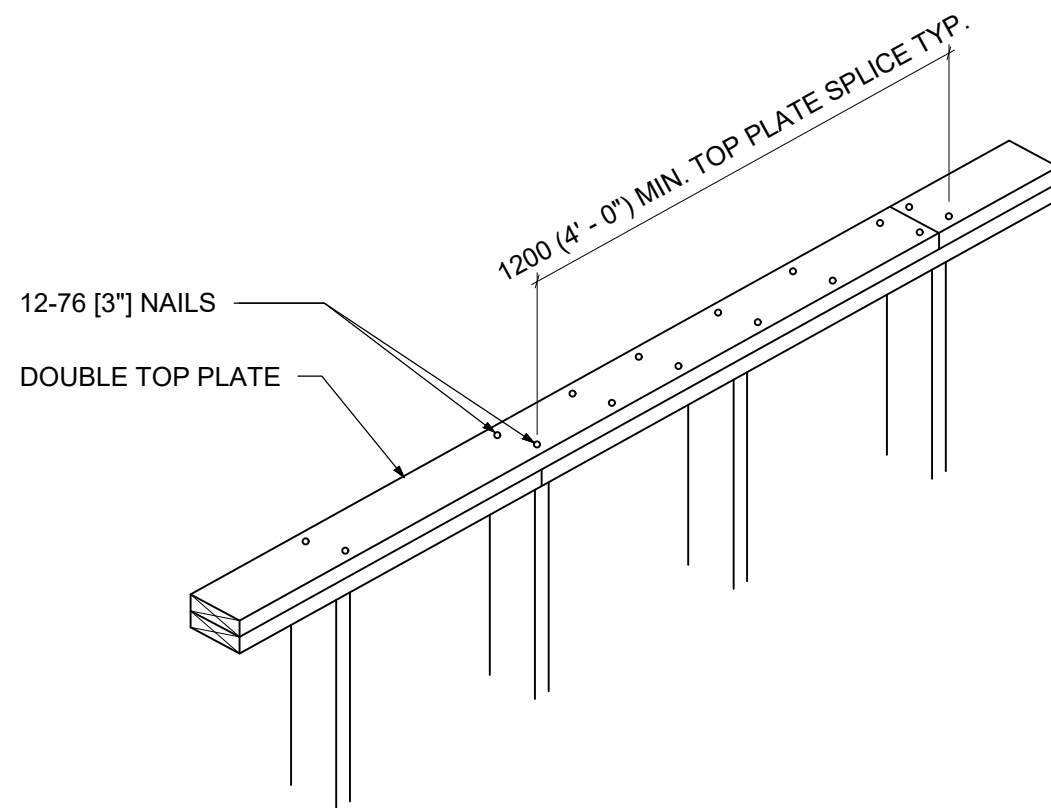
5  
ST309  
TYPICAL LINTEL FRAMING  
1 : 20



6  
ST309  
DRILLING & NOTCHING DETAIL  
1 : 20



7  
ST309  
STUD WALL TO CONCRETE CONNECTION  
1 : 20



8  
ST309  
TYPICAL TOP PLATE SPLICE  
1 : 20

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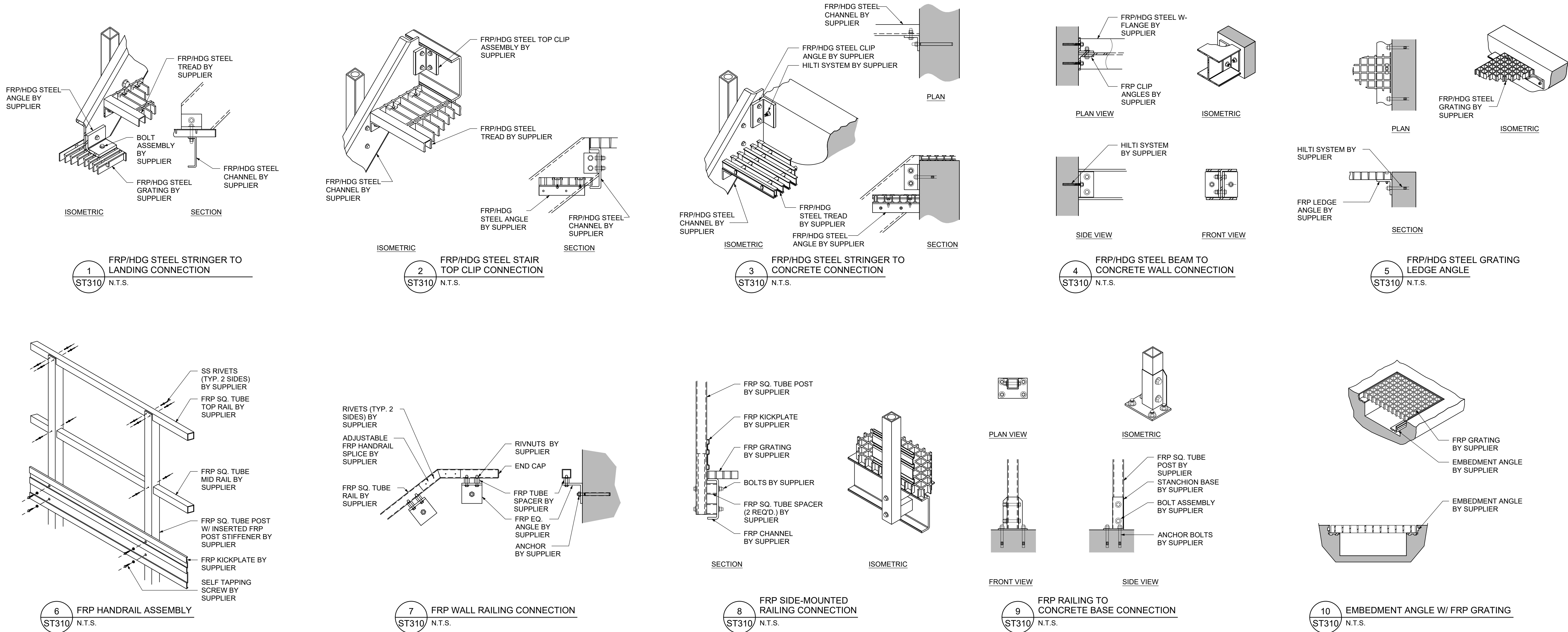
**PERMIT TO PRACTICE**  
ISL Engineering and Land Services Ltd.  
RM Signature: *[Signature]*  
RM APEGA ID: 94184  
Date: 2023-01-06  
PERMIT NUMBER: P 4741  
The Association of Professional Engineers  
and Geoscientists of Alberta

AS SHOWN  
Scale

MATTAMY (SHERWOOD PARK) LTD		
HEARTHSTONE SANITARY LIFT STATION		
Drawn: MLL	Design Checked: RC	Date: Nov. 23, 2022
Designed: KI	Discipline Review: RC	Date: Nov. 23, 2022

STRUCTURAL MISCELLANEOUS DETAILS IV	
Drawing No. 15719 ST 309	
Sheet No. 309	

Allen Li | Jan. 4, 23 | G:\Projects\15000\15700\15719 - Cambrian Sanitary Lift Station\02\_CADD\02\_Drafting\2023\_DWG\300\_Structural\15719 - Structural Details 2.dwg



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No.	DESCRIPTION	BY	DATE
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MATTAMY (SHERWOOD PARK) LTD		
HEARTHSTONE SANITARY LIFT STATION		
Drawn: MLL	Design Checked: RC	Date: Nov. 23, 2022
Designed: KI	Discipline Review: RC	Date: Nov. 23, 2022

STRUCTURAL MISCELLANEOUS DETAILS V	
Drawing No.	15719 ST 310
Sheet No.	310