

CONTRACTORS SHALL USE A COMBINATION OF EXISTING AND NEW MATERIALS TO REPAIR OR REPLACE TO ALL SURFACES BEING DAMAGED BY THE EXISTING LANDSCAPE AREAS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL OF EARTH FROM WITHIN THE CRAWLSPACE HYDRO VAC AND BY SHOVEL. EARTH REMOVED FROM THE CRAWLSPACE SHALL BE Hauled off site. EXCAVATED MATERIAL FROM THE EXTERIOR OF THE FOUNDATION CAN BE REUSED AS BACKFILL MATERIAL.

Revision	By	App'd	17/MAY/20
1	18/05/20	18/05/20	18/05/20
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Client/Project
GOVERNMENT OF CANADA

UPGRADES TO TBU 61

Regina, Saskatchewan

Title
BASEMENT / CRAWLSPACE PLAN

Project No. 14401433 Scale 1:100
Drawing No. Sheet 1 of 1
Revision 0

LEGEND

[A] DENOTES PLASTER TYPE SEE SECTION 2

== DENOTES NEW WALL

/// DENOTES EXISTING FDN WALL/GR. BM/PILE

GB 1 - DENOTES EXIST. GRADE BEAM TYPE (SEE SCHEDULE)

Legend

NOTES

1. REFER TO DWG S3.1 FOR TYPICAL REINFORCING DETAILS.

DO NOT SCALE DRAWINGS

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Discipline	Number C389
Permission to Conduct field by:	Signature
STRICT 9950	7.11.04

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Regina, SK, Canada
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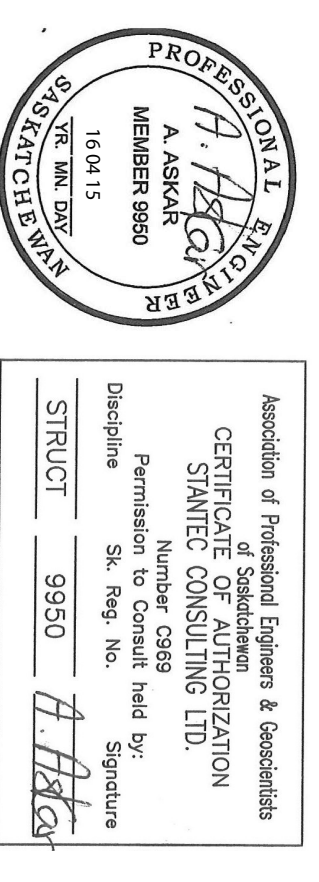
Comments:

Legend

1	RET. WALLS	F-2	HS	HS	F-2
2	PILES	HS	HS	F-2	HS
3	EXTERIOR SLABS	HS	HS	F-2	HS
4	EXTERIOR SLABS	HS	HS	F-2	HS

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GOVERNMENT OF CANADA

UPGRADES TO TBU 61

Regina Saskatchewan

CRAMSPACE

GENERAL DETAILS

AS NOTED

Sheet

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GENERAL NOTES

1. READ THE STRUCTURAL DRAWINGS IN CONJUNCTION WITH ALL OTHER
2. ALL DIMENSIONS ARE IN MILLIMETERS (UNLESS NOTED). THE CONTRACTOR SHALL VERIFY DIMENSIONS BEFORE CONSTRUCTION AND REPORT ANY DISCREPANCIES BEFORE PROCEEDING WITH THE WORK. DO NOT SCALE DRAWINGS.
3. THE DESIGN AND CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE REGINA MUNICIPALITY. PROVIDE TEMPORARY BRACKINGS SHOW COMPLETED STRUCTURES ONLY. PROVIDE TEMPORARY STRUCTURE DURING CONSTRUCTION. CONSTRUCTION LOADS SHALL NOT EXCEED THE DESIGN LOADS.
4. EXISTING CONSTRUCTION ALTERED OR DAMAGED DURING COURSE OF WORK TO BE MADE GOOD TO MATCH.

CONCRETE NOTES

1. PROVIDE CONCRETE AND REINFORCEMENT TO CSA C428-14. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE STRENGTH OF ALL CONCRETE.
2. TEST CONCRETE IN ACCORDANCE WITH CSA C428-14. PROVIDE 28 DAY COMPRESSIVE TEST RESULTS AND SLUMP RESULTS ON CONCRETE FOR EVERY 100 M³ OF CONCRETE. PROVIDE 7 DAY SLUMP RESULTS TO THE CONSULTANT.
3. CONCRETE REQUIREMENTS:

TYPE	LOCATION	28 DAY STRENGTH (F _c (MPa))	CEMENT TYPE	CLASS OF EXPOSURE
1	RET. WALLS	30	HS	F-2
2	PILES	30	HS	F-2
3	EXTERIOR SLABS	35	HS	F-2

REINFORCING STEEL NOTES

1. DEFORMED BARS CONFORMING TO CSA G40.18M GRADE 400. TIES AND STIRRUPS TO CSA G40.18M GRADE 300 OR 400.
2. REINFORCING STEEL SHALL BE IN ACCORDANCE WITH CSA C423-14 AND CSA C423-14.
3. REINFORCING STEEL SHALL BE DETAIL IN ACCORDANCE WITH THE LATEST EDITION DETAILING MANUAL OR THE REINFORCING STEEL INSTITUTE OF CANADA REINFORCING MANUAL.
4. REINFORCING TO BE CONTINUOUS UNLESS NOTED. LAP TOP BARS AT MIDSPAN, MINIMUM LAPS FOR OTHER BARS TO BE CLASS B TENSION SPICES. WHERE REINFORCEMENT LAPS ARE REQUIRED IN ALUMINUM BARS, STAGGER LAPS MINIMUM CLEAR SLAB REINFORCING NOT FLATTER THAN 1.0 METRE IN EITHER DIRECTION.
5. SUPPLY SUPPORT BARS, CHAINS, AND CARRIERS AS NECESSARY TO MAINTAIN BARS IN POSITION PRIOR TO CASTING CONCRETE.
6. TEMPLATES BEFORE CONCRETE IS POURED.
7. SLAB TOP BARS FOR REINFORCEMENT.

SLAB COVER FOR REINFORCEMENT

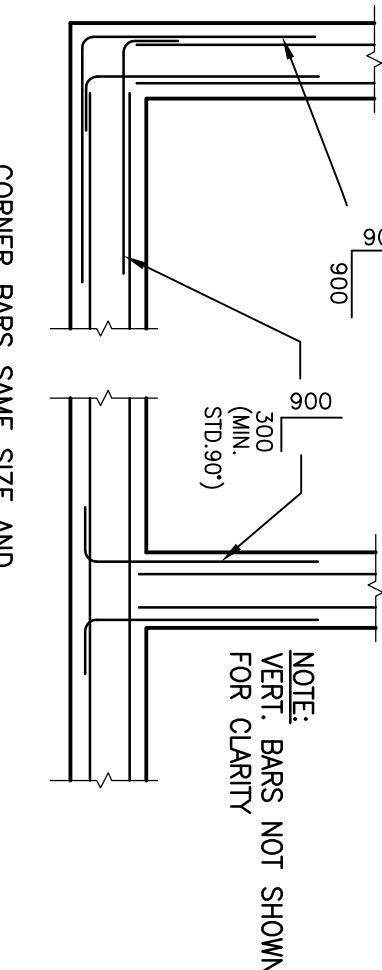
SURFACES CAST AGAINST EARTH = 75MM
SLABS EXPOSED TO EARTH = 50MM
ALL OTHER = 25MM

STRUCTURAL STEEL NOTES

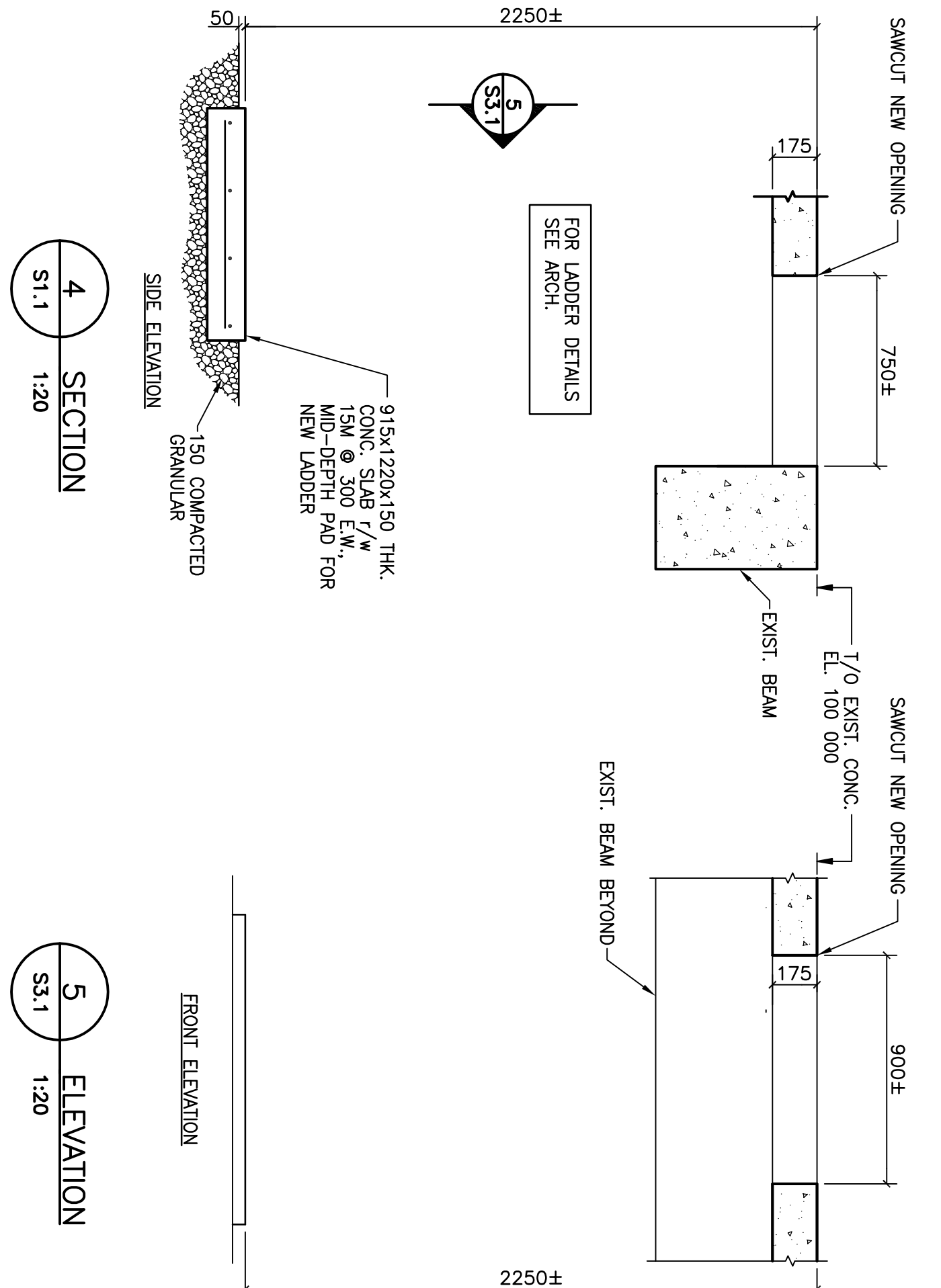
1. STRUCTURAL STEEL TO CSA G40.21 WITH THE FOLLOWING GRADES:
2. PROVIDE STRUCTURAL STEEL TO CSA G40.21 WITH THE FOLLOWING GRADES:

SECTION TYPE	GRADE OF STEEL (MPa)
BEAMS	350W
CHANNELS AND ANGLES	350W
SSS SECTIONS (CLASS C)	350W

3. FABRICATOR TO BE CERTIFIED AS A DIVISION 1 OF 2 COMPANY UNDER CSA W47.1.
4. PROVIDE SHOP DRAWINGS FOR REVIEW PRIOR TO FABRICATION. ALL DIMENSIONS SHALL BE IN ACCORDANCE WITH THE LATEST EDITION DETAILING MANUAL OR THE REINFORCING STEEL INSTITUTE OF CANADA REINFORCING MANUAL.
5. PROVIDE DETAILING BARS TO ASTM A572M. MINIMUM WELD DESIGN BOLTED TOGETHER BOLTS BY THE TURN OF NUT METHOD TO BOLT TENSIONS SPECIFIED IN CSA S16.1.
6. WELD TO CSA W47.1. PROVIDE DETAILING BARS TO ASTM A572M. MINIMUM WELD DESIGN BOLTED TOGETHER BOLTS BY THE TURN OF NUT METHOD TO BOLT TENSIONS SPECIFIED IN CSA S16.1.
7. PROVIDE DETAILING BARS TO ASTM A572M. MINIMUM WELD DESIGN BOLTED TOGETHER BOLTS BY THE TURN OF NUT METHOD TO BOLT TENSIONS SPECIFIED IN CSA S16.1.
8. PROVIDE DETAILING BARS TO ASTM A572M. MINIMUM WELD DESIGN BOLTED TOGETHER BOLTS BY THE TURN OF NUT METHOD TO BOLT TENSIONS SPECIFIED IN CSA S16.1.
9. PROVIDE DETAILING BARS TO ASTM A572M. MINIMUM WELD DESIGN BOLTED TOGETHER BOLTS BY THE TURN OF NUT METHOD TO BOLT TENSIONS SPECIFIED IN CSA S16.1.
10. PROVIDE DETAILING BARS TO ASTM A572M. MINIMUM WELD DESIGN BOLTED TOGETHER BOLTS BY THE TURN OF NUT METHOD TO BOLT TENSIONS SPECIFIED IN CSA S16.1.
11. PROVIDE DETAILING BARS TO ASTM A572M. MINIMUM WELD DESIGN BOLTED TOGETHER BOLTS BY THE TURN OF NUT METHOD TO BOLT TENSIONS SPECIFIED IN CSA S16.1.
12. PROVIDE DETAILING BARS TO ASTM A572M. MINIMUM WELD DESIGN BOLTED TOGETHER BOLTS BY THE TURN OF NUT METHOD TO BOLT TENSIONS SPECIFIED IN CSA S16.1.

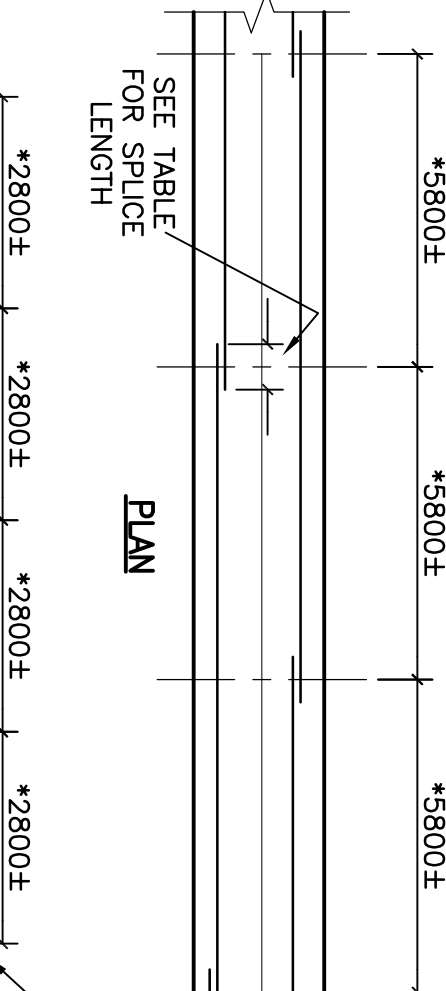


3 TYP. CORNER BAR DETAIL



4 SECTION

5 ELEVATION

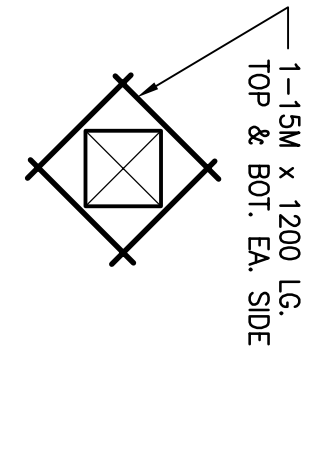


DEVELOPMENT LENGTHS TABLE

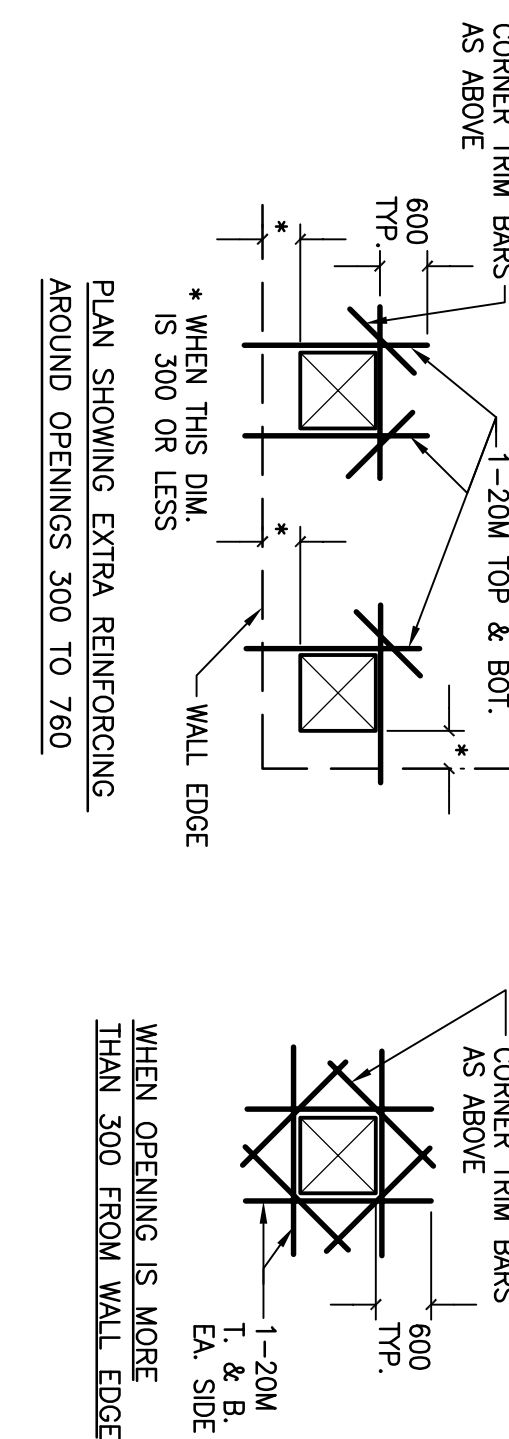
LOCATION	BAR SIZE	15M	20M
HORIZONTAL BARS	ALL SPICES	900	1180
VERTICAL BARS	ALL SPICES	690	920

1. IF BAR SIZES ARE USED AT THE SPICE LOCATION USE THE LARGER BAR SIZE FOR PREPARING THE SPICE SIZE.
2. REFER TO ABOVE PLAN & ELEVATION FOR SPICE LOCATIONS AT WALL CONNECTION.
3. REFER TO ABOVE PLAN & ELEVATION FOR SPICE LOCATIONS AT WALL CONNECTION.
4. SPICES IN HORIZONTAL WALL REINFORCING SHALL BE STAGGERED SO THAT A SPICE OCCURS AT THE BEGINNING OF THE WALL'S ADVANCEMENT SPICE LAP.

2 TYP. WALL REIN. SPICE DETAILS

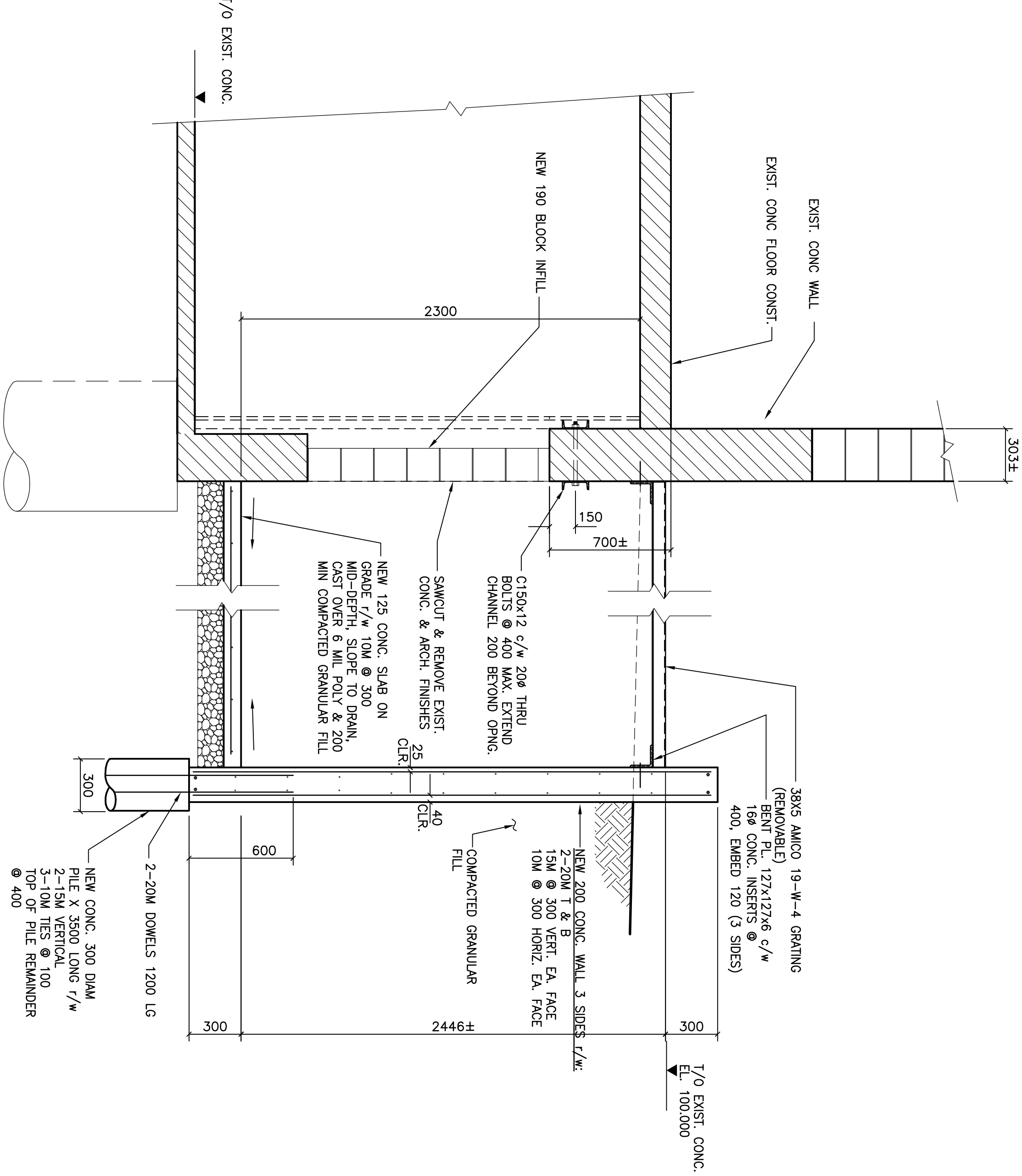
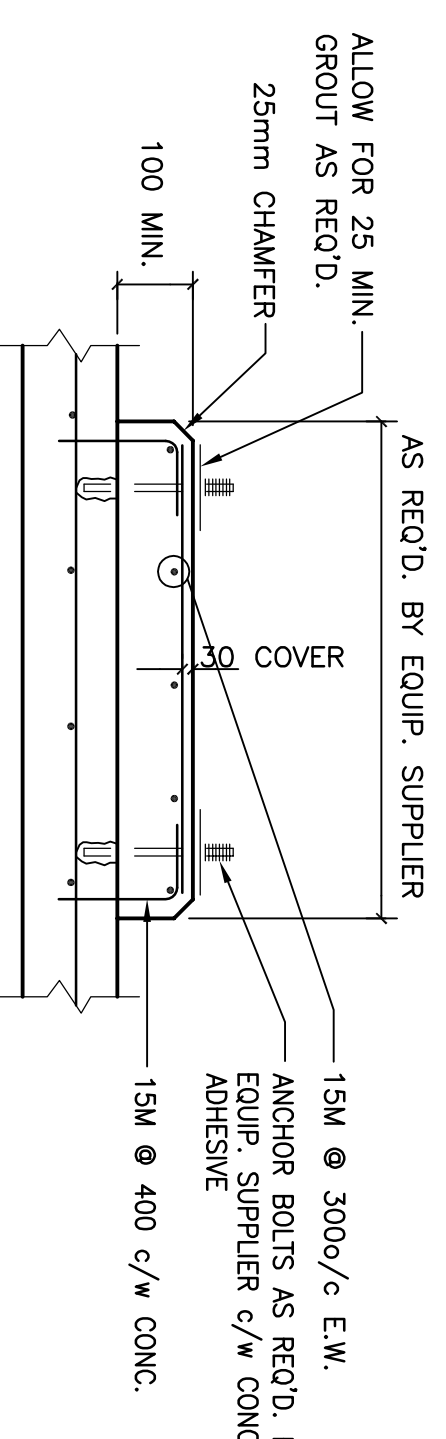


1 ADDITIONAL REIN. AROUND OPENS. IN CONC. RETAINING WALLS



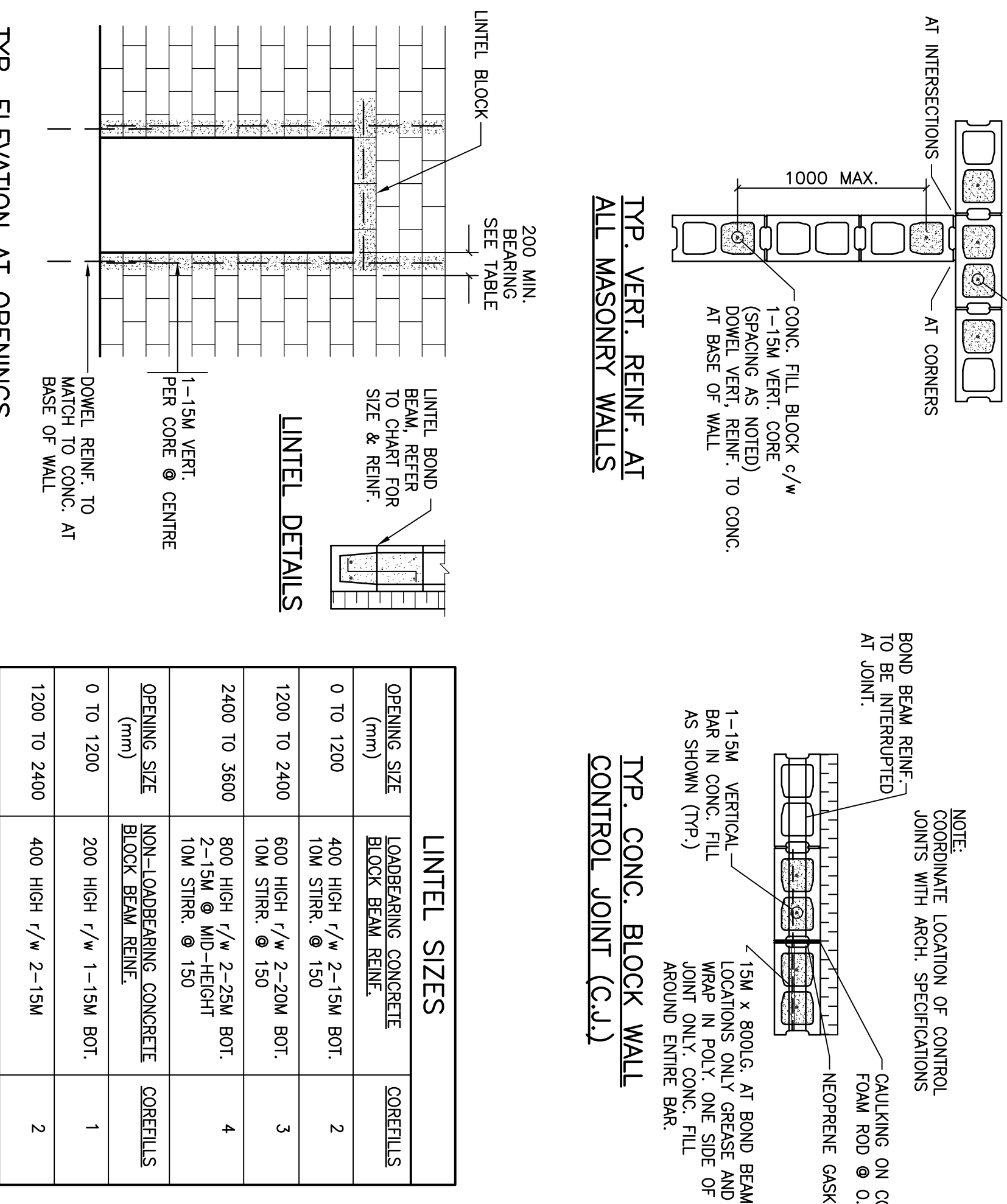
1. NUMBER OF REIN. BARS CUT TO BE KEPT AT A MINIMUM.
2. DETAIL AS ABOVE.
3. DETAIL AS ABOVE.
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6 EQUIPMENT PAD DETAIL



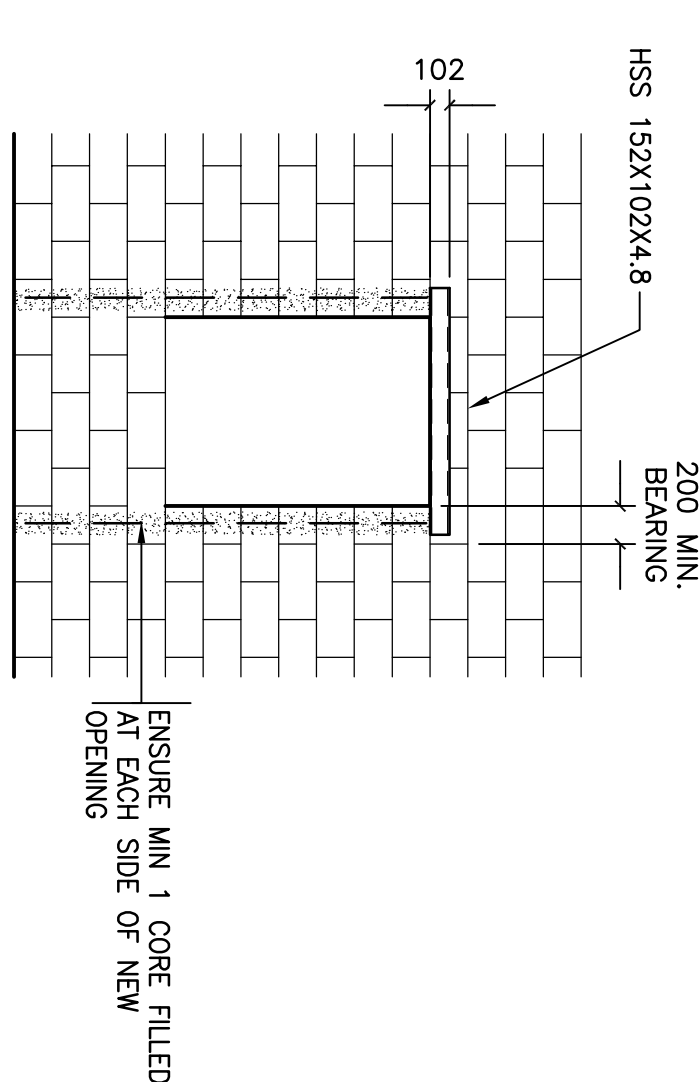
7 SECTION

8 TYP. CONCRETE BLOCK REINFORCEMENT DETAILS



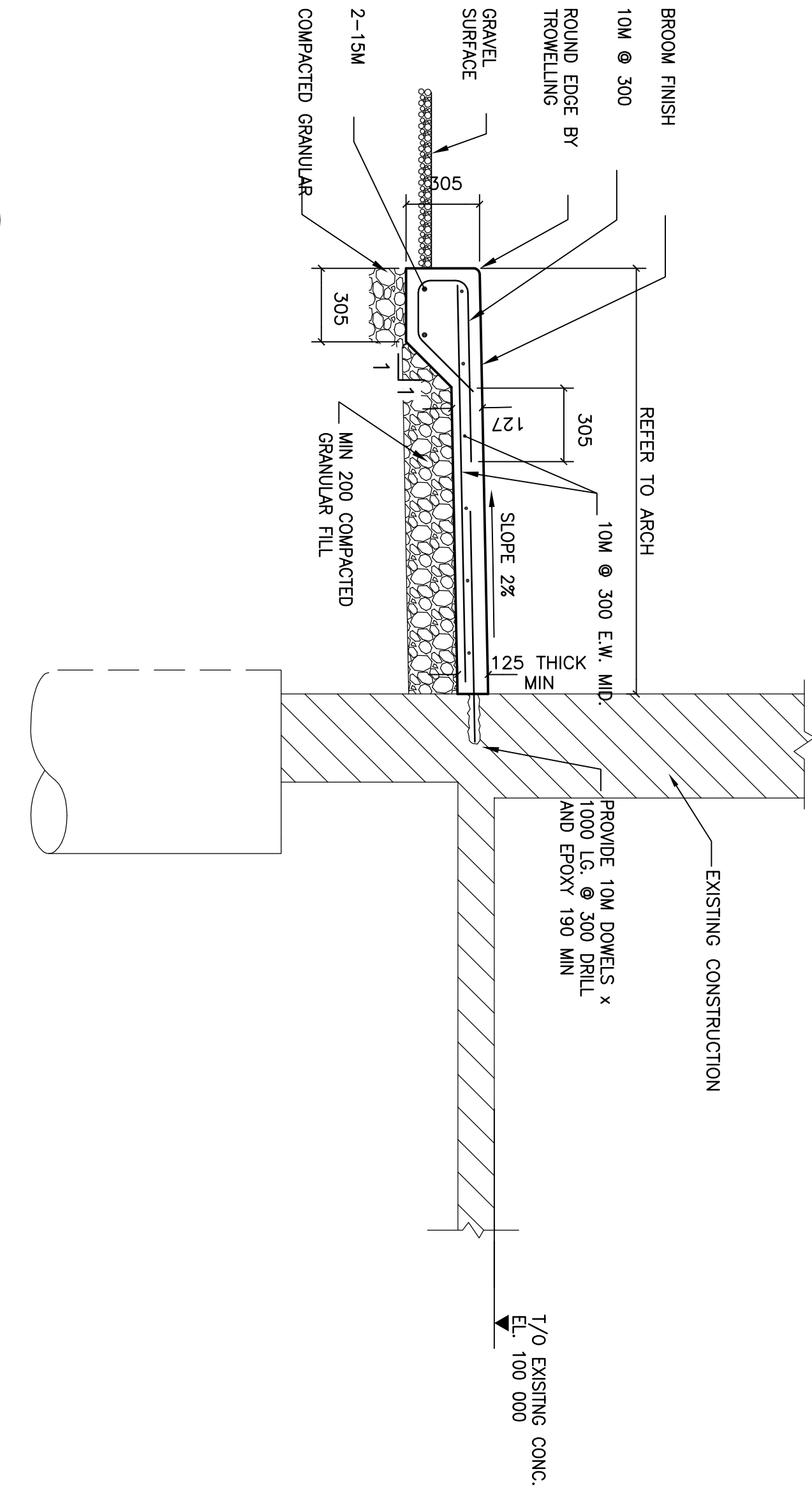
OPENING SIZE (mm)	LOADING CONCRETE BLOCK BEAM TABLE	CORRECTIONS
0 TO 1200	400 HIGH 1/4 2-15M BOT.	2
1200 TO 2400	600 HIGH 1/4 2-15M BOT.	3
2400 TO 3600	800 HIGH 1/4 2-15M BOT.	4
3600 TO 4800	1000 HIGH 1/4 2-15M BOT.	5
4800 TO 6000	1200 HIGH 1/4 2-15M BOT.	6
6000 TO 7200	1400 HIGH 1/4 2-15M BOT.	7
7200 TO 8400	1600 HIGH 1/4 2-15M BOT.	8
8400 TO 9600	1800 HIGH 1/4 2-15M BOT.	9
9600 TO 10800	2000 HIGH 1/4 2-15M BOT.	10
10800 TO 12000	2200 HIGH 1/4 2-15M BOT.	11
12000 TO 13200	2400 HIGH 1/4 2-15M BOT.	12

9 TYP. WINDOW OPENING IN EXISTING BLOCK



1. ALL CONCRETE FILL SHALL BE 20MPa STRENGTH.
2. REFER TO ARCH FOR NEW WINDOW LOCATIONS.

10 EXTERIOR SLAB/GRADE BEAM @ DOORWAY SECTION



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Regina SK Canada
S4P 3P1
Tel. 306.781.6400
Fax. 306.781.6500

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Consultants:

LEGEND
FM - DENOTES FULL WELD CONNECTION ALL
AROUND

1. REFER TO DWG S3.1 FOR TYPICAL REINFORCING DETAILS.
2. SEE STEEL SPECIFICATIONS FOR CONNECTIONS

The diagram shows a complex polygon with a shaded rectangular region on its left side. The polygon has a vertical left edge, a horizontal top edge, a horizontal bottom edge, and a jagged right edge. The shaded region is a rectangle that is wider than it is tall, located on the left side of the polygon. The shaded region is filled with a black and white cross-hatch pattern.

DO NOT SCALE DRAWINGS

[illegible]

Association of Professional Engineers & Geoscientists
 CERTIFICATE OF AUTHORIZATION
 STANTE CONSULTING LTD.

Number: C969
 Expiration to: Consult. until: N/A
 Discipline: Sr. Reg. No.: Signature: _____

STRUCT: 9950

H. A. A. A.

Client/Project

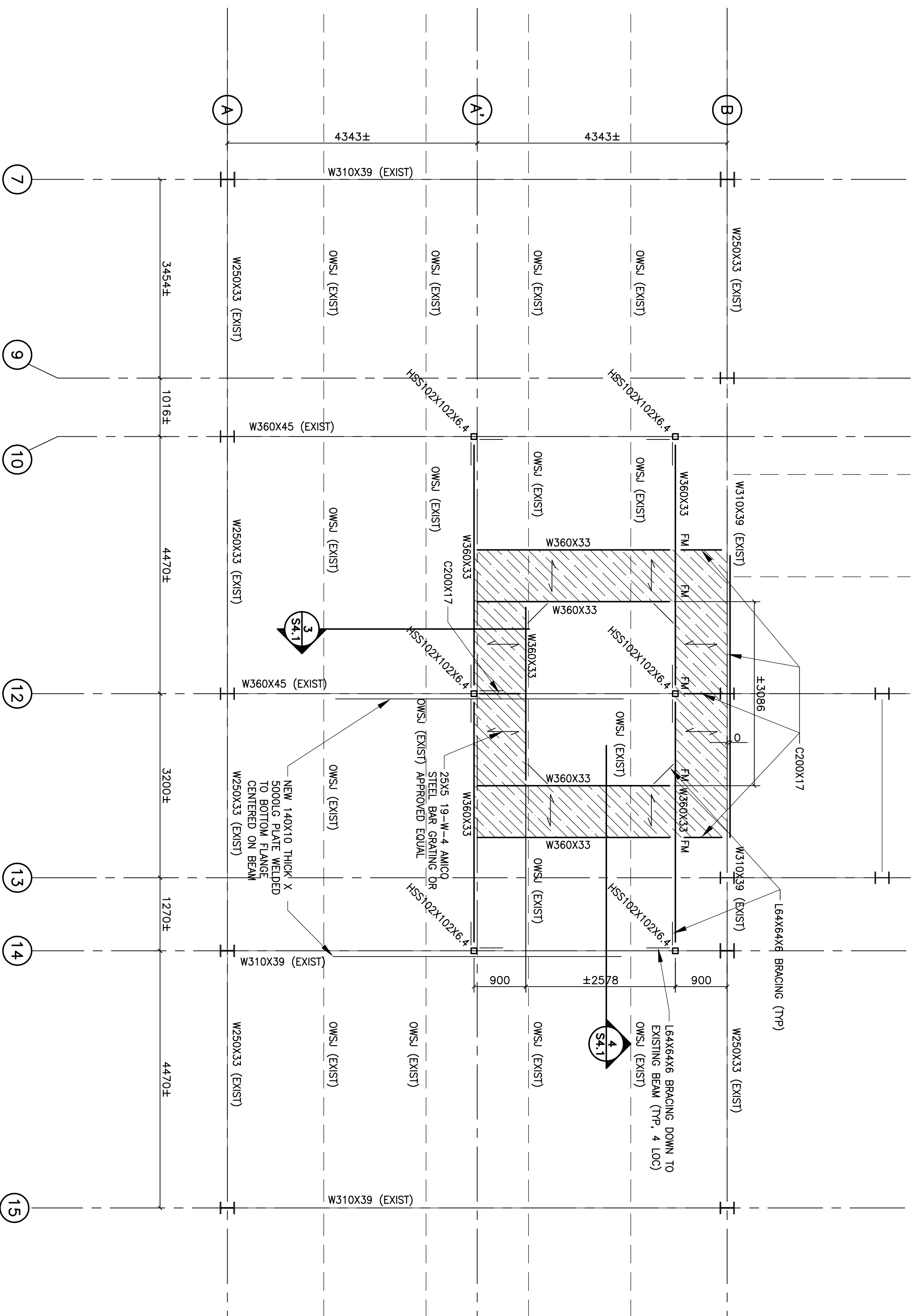
GOVERNMENT OF CANADA

UPGRADES TO TBU 6*

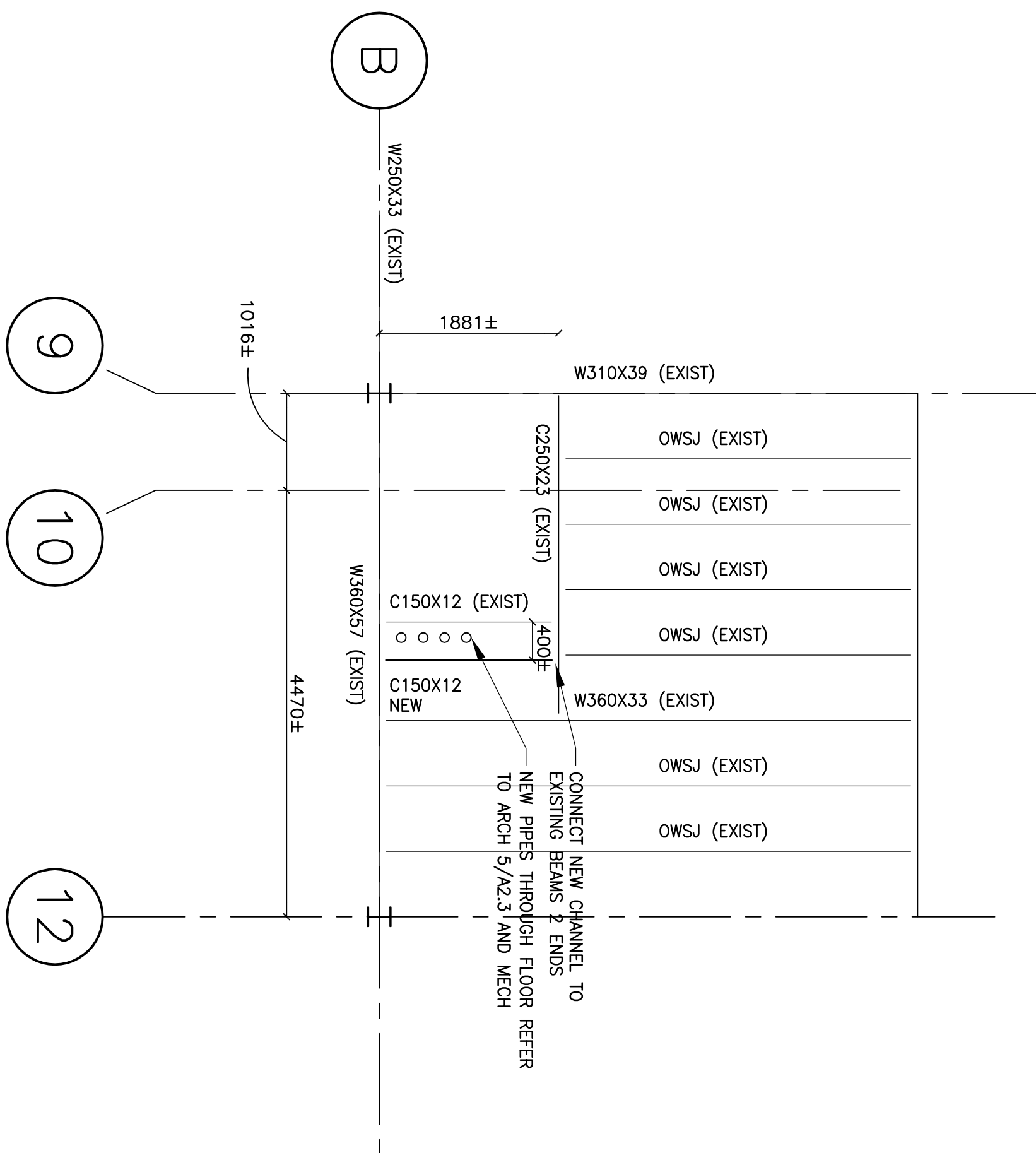
Regina, Saskatchewan

Tile PARTIAL ROOF PLAN AND DETAILS

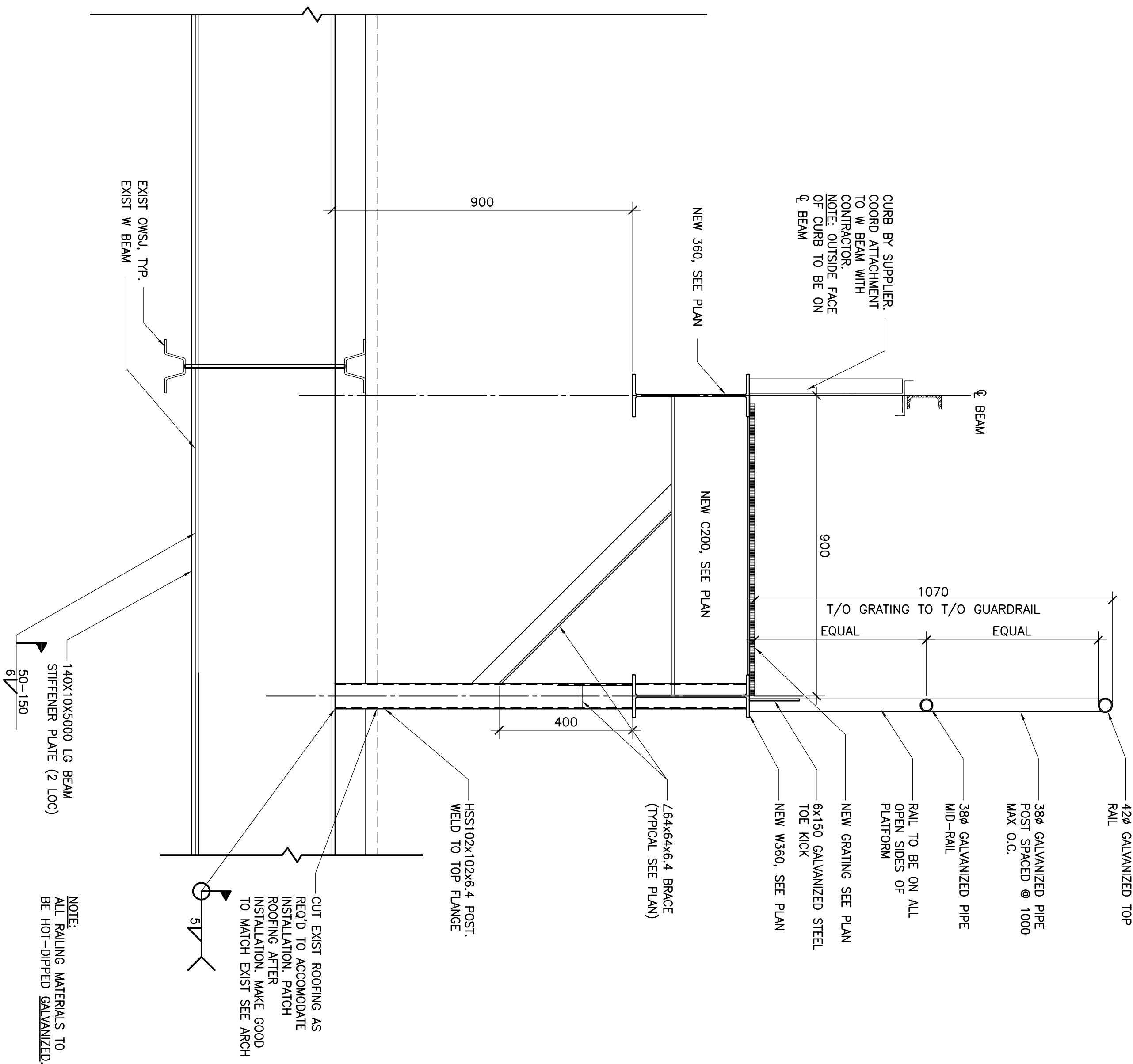
Project No.	Scale
144401453	AS NOTED
Drawing No.	Sheet
	Revision



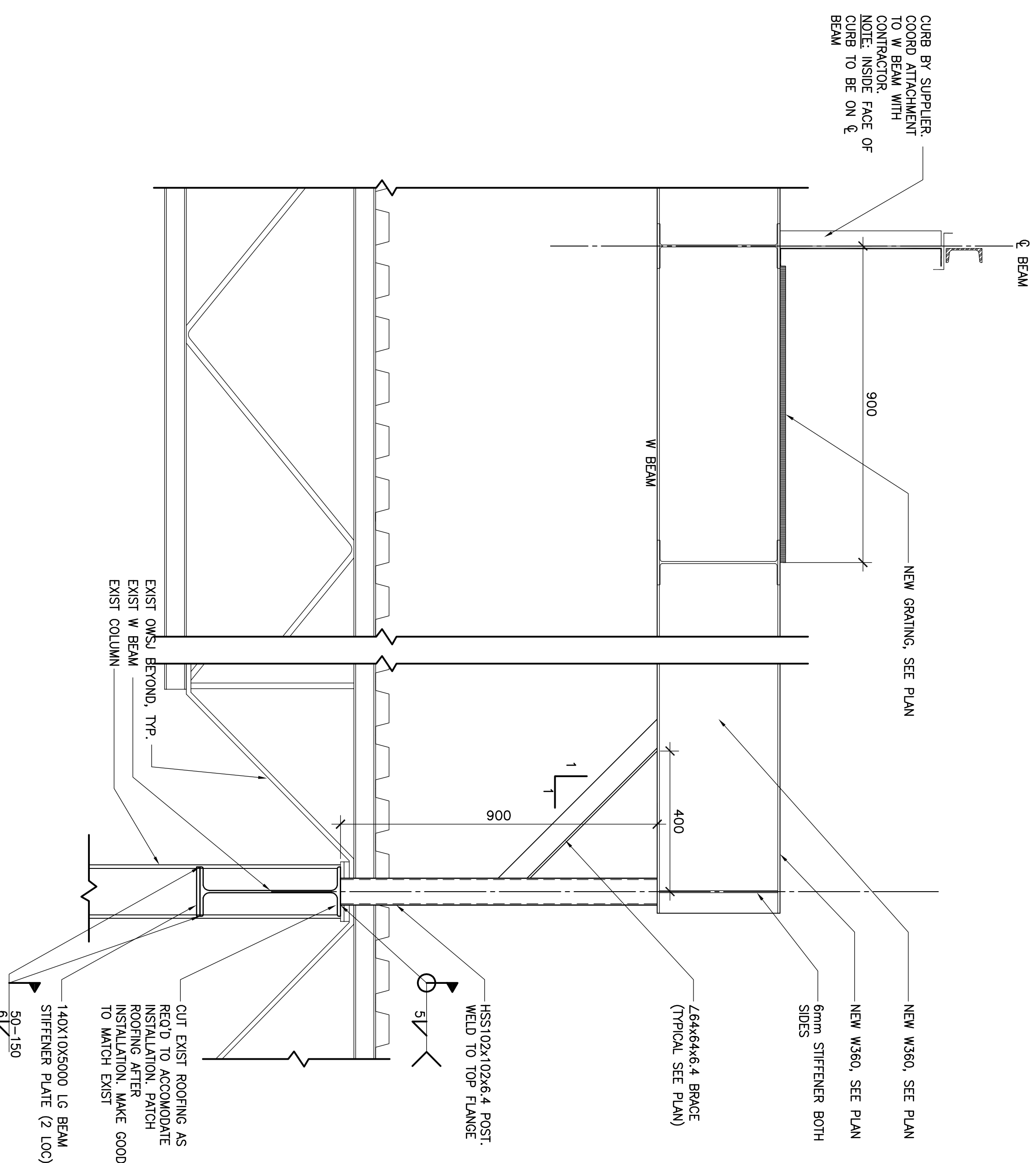
1	PARTIAL ROOF PLAN COOLING TOWER SUPPORT
-	1:50



2
-
PARTIAL FLOOR PLAN
1:50
2ND FLOOR TO ROOF COORDINATE
EXACT LOCATION WITH ARCH/MECH



3 TYP. STAND SECTION
1:10



4 TYP. STAND SECTION
- 1:10

Stantec Consulting Ltd
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S4P 3P1
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Client/Project _____

GOVERNMENT OF CANADA

Association of Professional Engineers & Geoscientists
of Saskatchewan
CERTIFICATION
Sustainable
Strategic Consulting Ltd.
NUMBER: 0089
INDEPENDENT CONSULTANT: ☒ ☐
SPECIALTY: ELECTRICAL
ISSUED: 1/28/2016
John Hogg

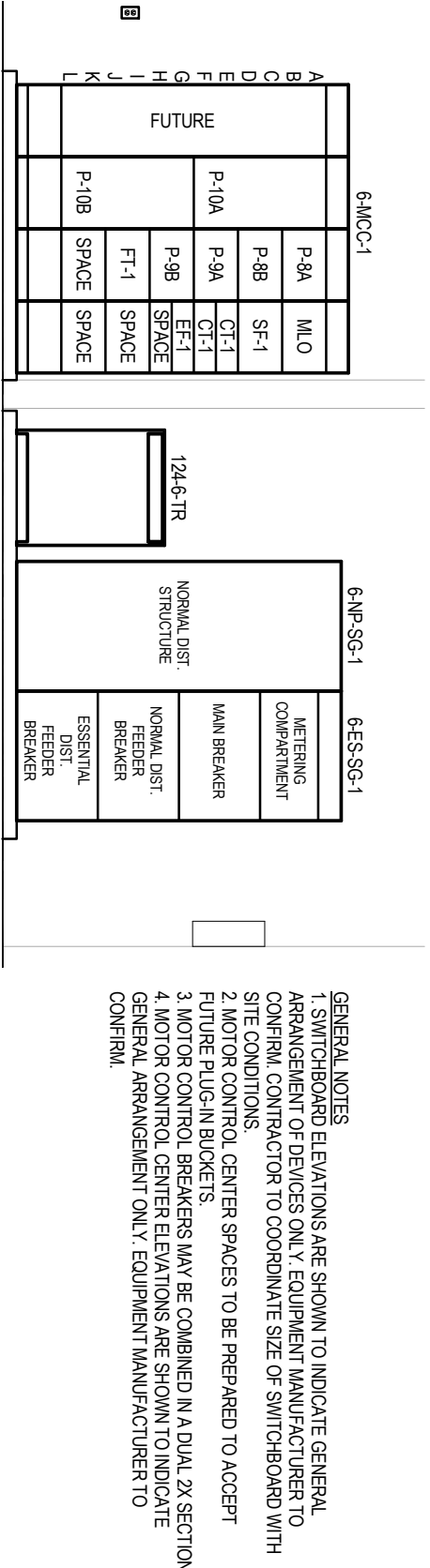
UPGRADES TO TBU 61

Regina, Saskatchewan

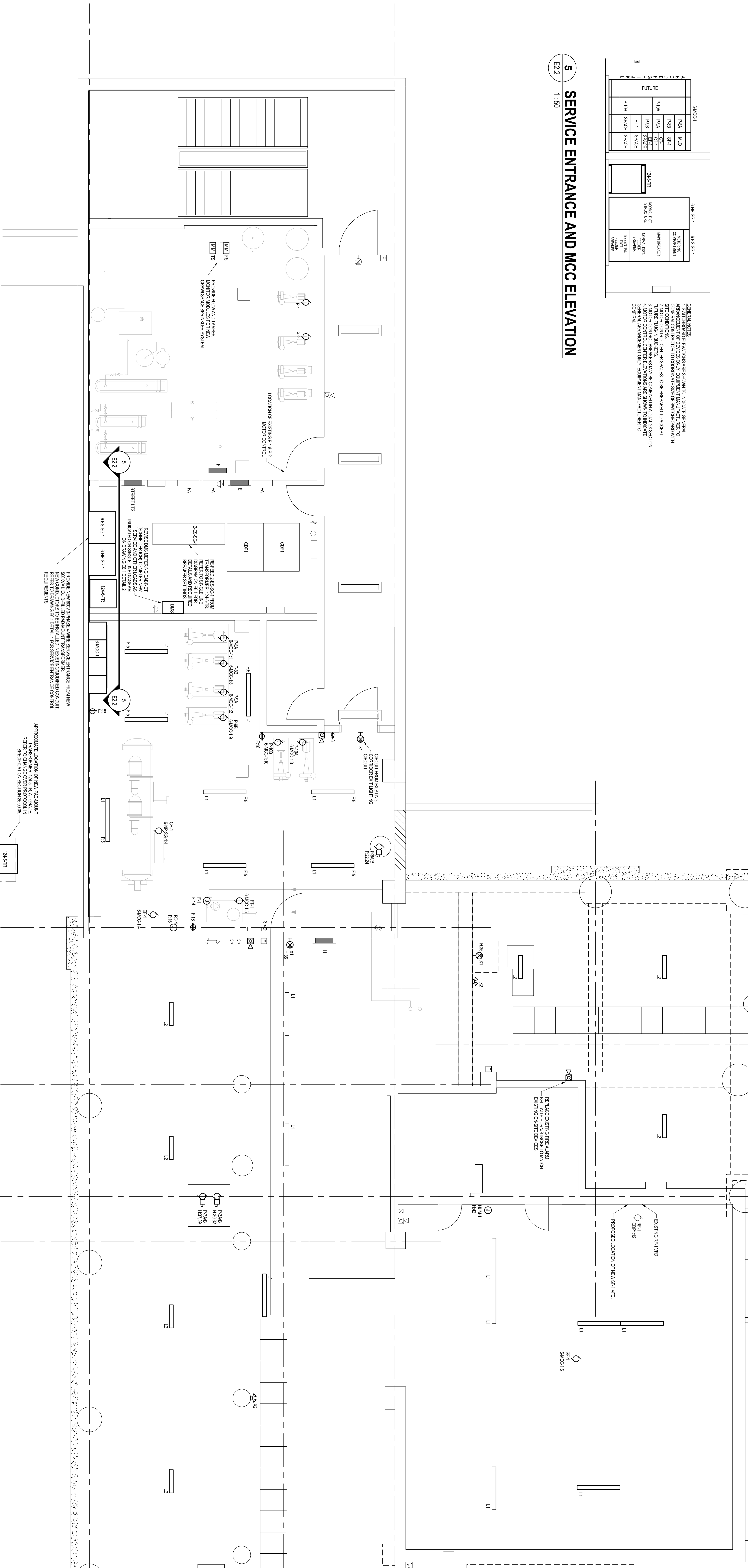
**THE
ELECTRICAL - BASEMENT, MAIN FLOOR,
AND ROOF - NEW CONSTRUCTION**

Project No. 144401453	Score AS INDICATED
Drawing No. E2.2	Sheet 3 of 5
	Revision 0

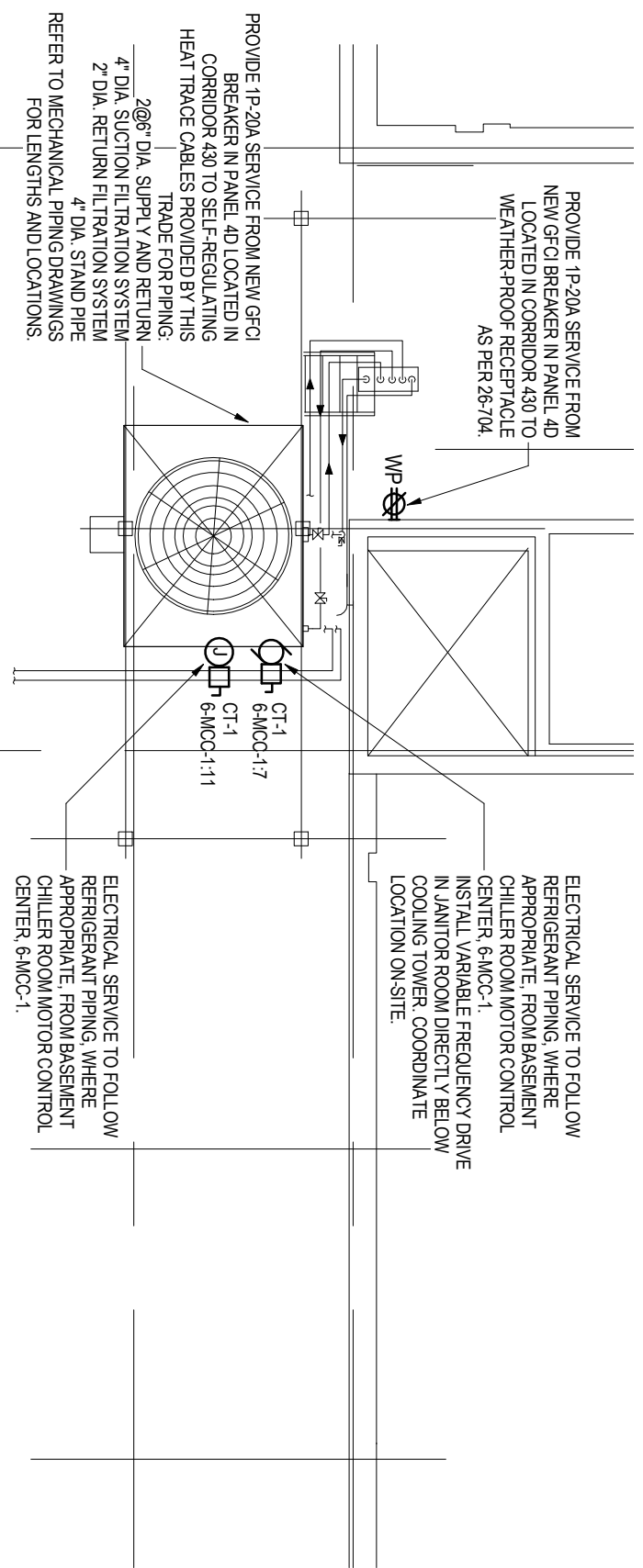
\\cd1046-01\Shared_projects\144401453\electrical\drawing\user\144401453a_e2.2.dwg
--- By: Larry Kerr



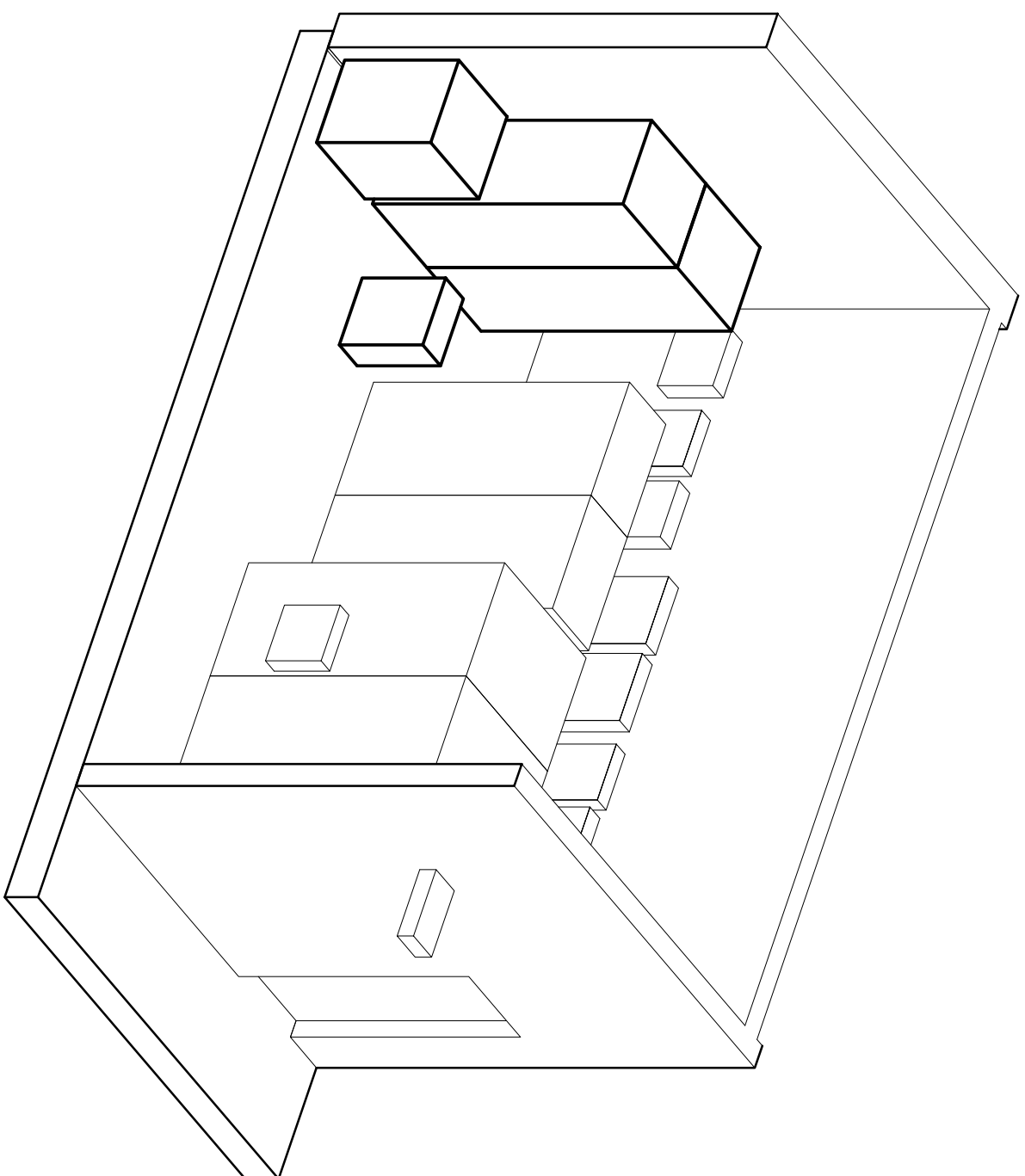
5	SERVICE ENTRANCE AND MCC ELEVATION
E22	1:50



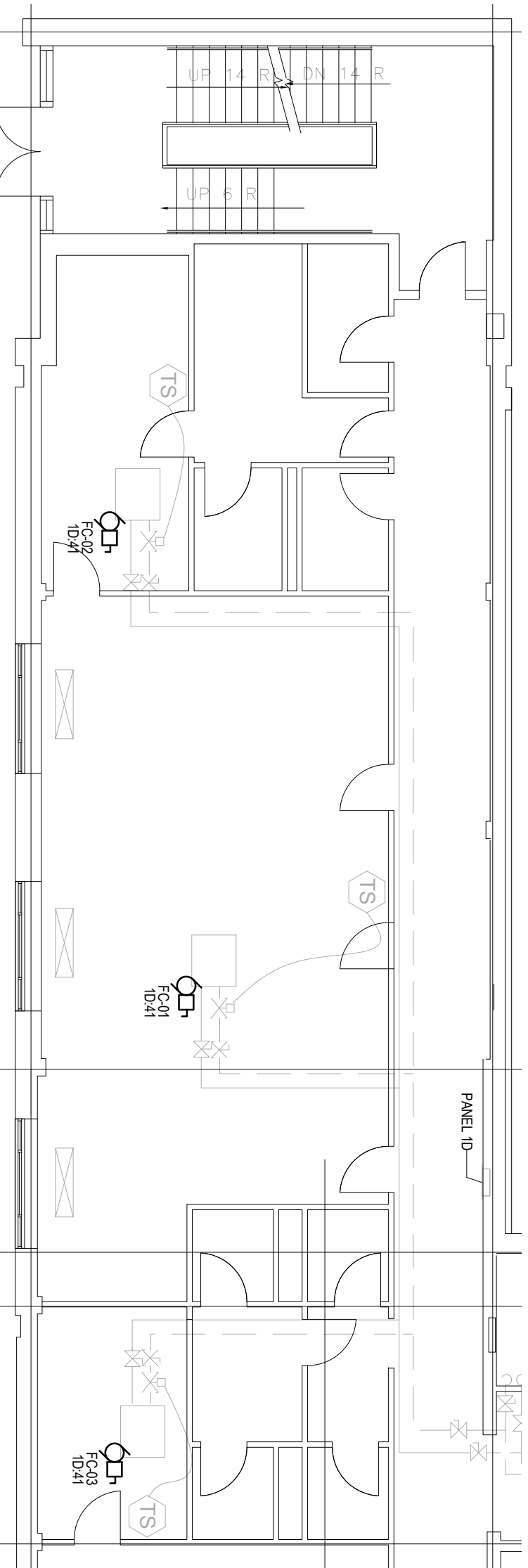
BASEMENT POWER PLAN - NEW



ELECTRICAL ROOF PLAN - NEW



ELECTRICAL ROOM ISOMETRIC - NEW



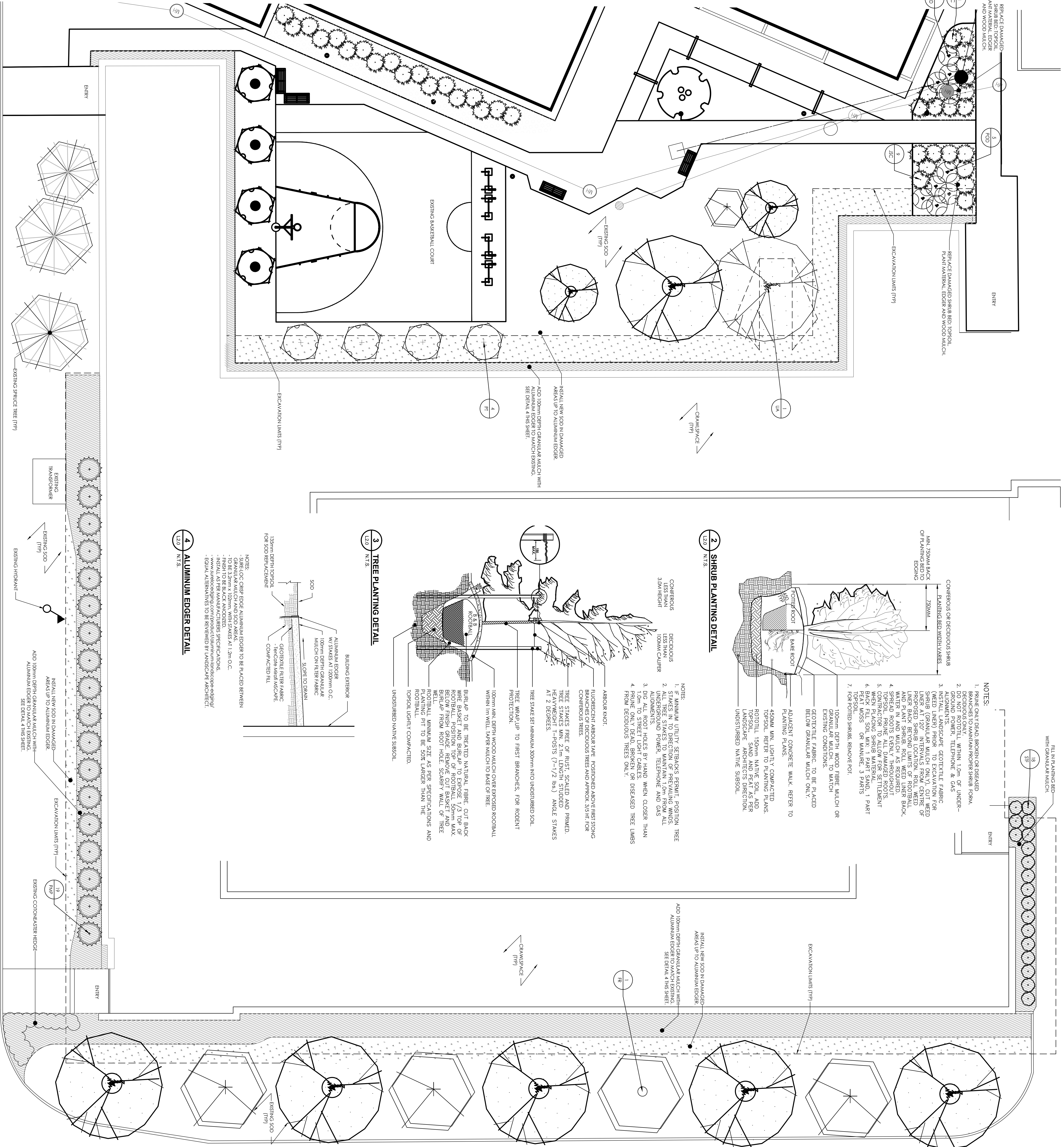
ELECTRICAL MAIN FLOOR - NEW

Notes

Legend

Consultant

[illegible]

[illegible]

PLANTING NOTES:

- [illegible]

SETBACKS

LABORER TO CONSTRUCT TO LOCAL CITY ENGINEERING DEPT. FOR CONSTRUCTION. ANY PLANT OR MATERIALS TO BE USED SHALL BE APPROVED BY THE CITY ENGINEERING DEPT. AND APPROVED BY A MANAGER OF FOREST, HORTICULTURE AND PEST CONTROL, AND THE LANDSCAPE ARCHITECT.

LABORER TO CONSTRUCT AND MAINTAIN THE FOLLOWING:

1. PRIMARY CALEST: 1-100' CALEST AND CONCRETE DRAINAGE
2. 2-100' ROW UNDERGROUND UTILITIES TRENCH: WATER, GAS LINES, SECONDARY CALEST: 2-100' ROW UNDERGROUND UTILITIES TRENCH
3. 2-100' ROW STREET CORNER
4. 5-100' ROW STREET CORNER
5. 1-100' ROW STREET CORNER
6. 1-100' ROW STREET CORNER
7. 1-100' ROW STREET CORNER
8. 4-100' ROW ALLEYS
9. 4-100' ROW ALLEYS
10. 2-100' ROW BUS STOP
11. PRIVATE PROPERTY: 1-100' ROW ALLEYS
12. OVERHEAD POWER LINES 10m or HIGHER: 1-100' OFFSET
13. OVERHEAD POWER LINES 10m or HIGHER: 5-100' OFFSET
14. OVERHEAD POWER LINES 10m or HIGHER: 5-100' OFFSET

LABORER TO CONSTRUCT A RESPONSIBLE FOR DAMAGES AND INJURIES INCURRED BY LABORED TO THE UTILITIES.

AREAS : PHASE 4 MR-2

TOTAL RESTORED SOO AREA (EXCAVATION UNITS)	248m ²
TOTAL SHRUB BED AREA (500mm DEPTH TOPSOIL)	153m ²
TOTAL WOOD MULCH AREA	48m ²
TOTAL GRANULAR MULCH AREA	300m ²
TOTAL NUMBER OF DECIDUOUS TREES	6
TOTAL NUMBER OF SHRUBS	66

[illegible]

