



# KLUANE NATIONAL PARK HEADQUARTERS TRADES BUILDING

Haines Junction, Yukon



ISSUED FOR TENDER

MARCH 21, 2018

PWGSC Project Number : R. 075647.001

STANTEC Project Number : 144902525

## DRAWING LIST

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Project Information	
Project Name:	Trades Building Klueane Park Headquarters
Stanlec Project #:	144901941
Prepared by:	Jason King
Reviewed by:	John Berg
Revised:	

Building Area:	329.30 sqm	1.4.1.2. [A]
Floor Area:	304.65 sqm	1.4.1.2. [A]
Building Height:	1 Story	1.4.1.2. [A]
Facing Streets:	1 Street	1.4.1.2. [A], 3.2.2.10.
Sprinklered:	Not Required	
Combustible Construction		
Design Occupancy:	3.2.2.85.; Group "F", Div. 3	
	Up to 2 Stores, Not Sprinklered	
	Storage, Warehouse	
Occupant Load:	12	
Legal Description of Property	Haines Junction, CLSP 65943, Bl	

This chart is only a summary of CODE paragraphs provided for project coordination. Detailed Requirements of the NBCC 2015 and other legislation apply.

A-1.3.3.	Application of Division 8
A-1.3.3.1.	Parts 1, 7 and 8 of Division 8 apply
A-1.3.3.2.(1)	Parts 3, 4, 5 and 6 of Division 8 apply

B-1.1.3.	Climatic data in accordance with Div. 8 Appendix C Table C-2
B-1.1.3.(1)	Seismic data in accordance with Division 8 Appendix C Table C-2

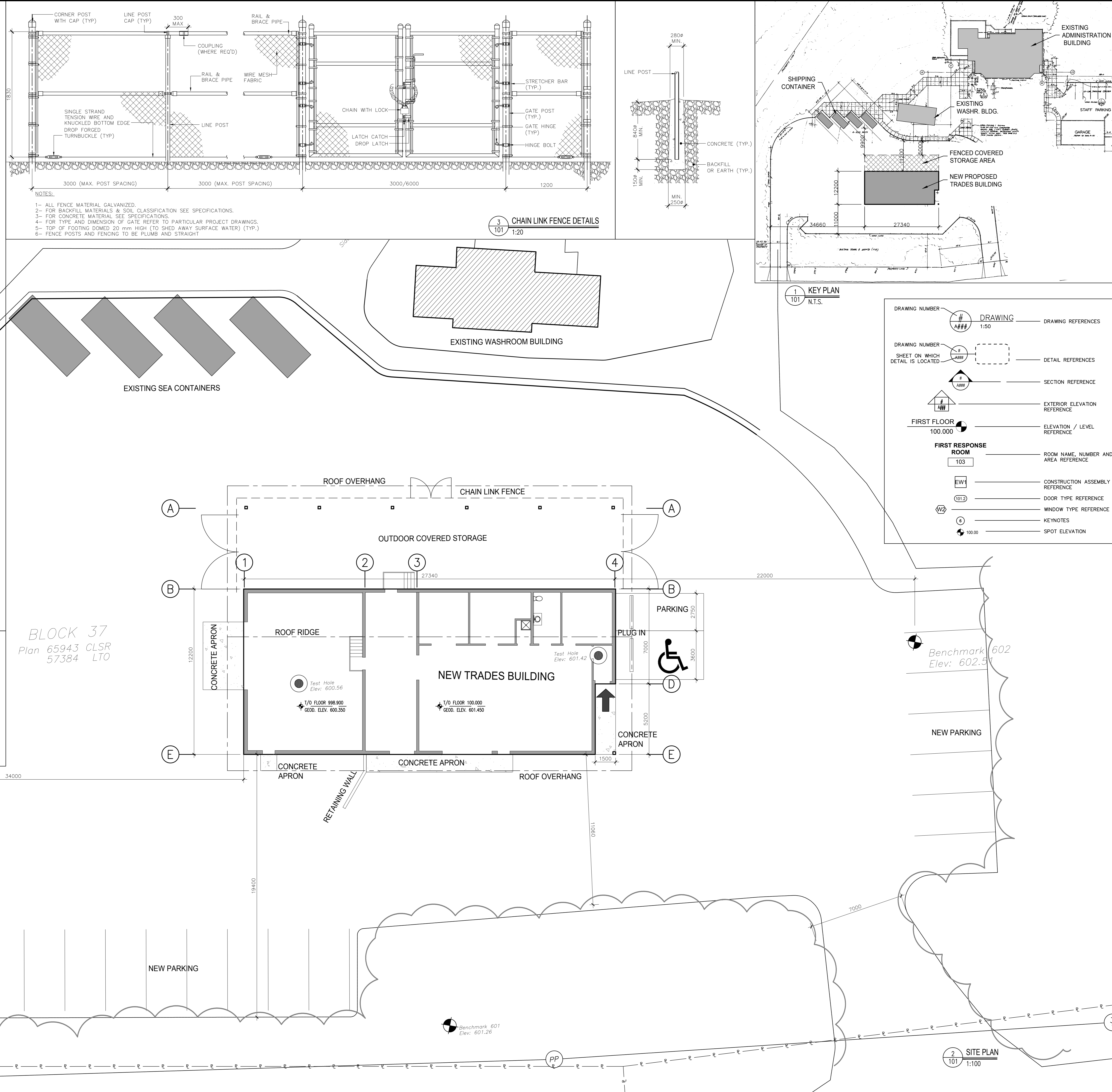
B.3.1	General
B.3.1.2.1.	Every building or part thereof shall be classified according to its Major Occupancy.
B.3.1.2.1.	The building is classified as a Group F, Div. 3, Low-Hazard Industrial Occupancy
B.3.2	Building Fire Safety
B.2.2.10.1(1)+2	Every building shall stop a fire at street. An access route conforming subsection 3.2.5 is permitted to be considered a street.
B.3.2.2.85	Group F, Div.3, one story; is permitted to be of combustible or non-combustible construction. (Building area less than 400sqm)
B.3.2.3.	Spatial separation and exposure protection: exterior walls will be of combustible and non-combustible construction.
B.3.2.4.1.	Fire Alarm: a fire alarm system is not required. No automatic sprinkler system installed
B.3.2.4.9(5)	Annunciator is not required.
B.3.2.5.16	Portable fire extinguisher is required.
B.3.3	Safety within Floor Areas. This building has one tenancy, but FRR separations between rooms apply.
B.3.3.1.5	Egress doorways: Egress doors are required.
B.3.3.1.5.A	Maximum distance to egress door in a F-3 occupancy is 15m.
B.3.3.2.1	2 Exits per floor are required. More than 2 exits are provided.
B.3.4.2.1	1 All FRR separation is required at service rooms with fuel-fired appliances.
B.3.1.6.1	All FRR separation will be a continuous, smoke tight barrier that contains at a ceiling or
B.3.1.9	Penetrations of Fire Separations to be sealed and tightly fitted to maintain integrity of
B.3.3.5.6	Vehicle Boys require a 1.5 hour FRR separation from other occupancies.
B.3.1.13.2	All interior walls and ceilings have to have a surface flame-spread rating of not more than Doors to have a flame-spread rating of not more than 200.
Closures	A swing-type door in a fire separation shall be equipped with a positive latching mechanism designed to hold the door in the closed position after each use. Opening fire separation shall be protected with closures, shafts or other means with a fire resisting rating.
B.3.4	Exits
B.3.4.6.12	Exit doors must open in the direction of exit travel.
B.3.4.6.16	Door release hardware required on exit doors.
B.3.2.7.1	Emergency lighting is required.
Barrier Free Design	
B.3.8.1.1	A barrier free design is required.
B.3.8.2.3	Barrier Free Washrooms are required.
B.3.8.3.3(5)	An Auto-Door operator is not required.
B.3.8.3.3.10	Proper Barrier free clearances at vestibules are required.
B.3.8.3.3(3)	All door hardware is to comply with barrier free standards.

## Kluane National Park Headquarters

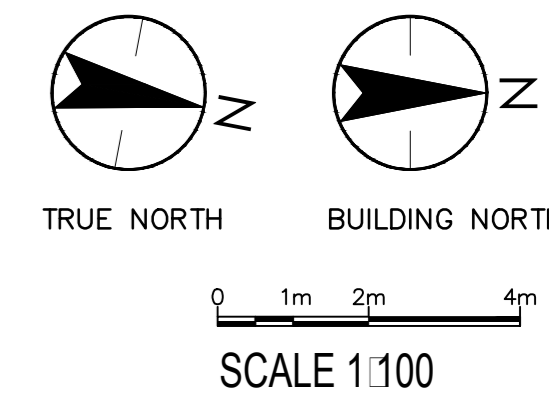
☐ **Planning** ☐ **Public Use Community (PD)**☐ **Planning** ☐ **Public Use Community (PD)**

## Regulations

Principal Uses	Public Buildings
Accessory Uses	Accessory Buildings are permitted
Height of Buildings	Shall not exceed 15m. Proposed height is 7.5m
Yard Requirements	Side yards of not less than 4.6m shall be provided. Proposed Side Yard is 23m.
Minimum Lot Area	The Lot is existing and exceeds the minimum of 464m <sup>2</sup>



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0	ISSUED FOR TENDER	18/03/2018
Revision/ Revision	Description/Description	Date/Date

**PARKS CANADA  
HAINES JUNCTION, Y.T.**

Project title/Titre du projet

TRADES BUILDING  
KLUANE PARK  
HEAD QUARTERS

Consultant Approval Box Only

JB

Designed by/Concept par

TF/JB

Drawn by/Dessine par

[illegible]

**STEPHANE CLAVEL**

PWGSC, Regional Manager, Architectural

Gestionnaire régionale, Services d  
**PREETIPAL PAUL**

Drawing title/Titre du dessin
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SITE

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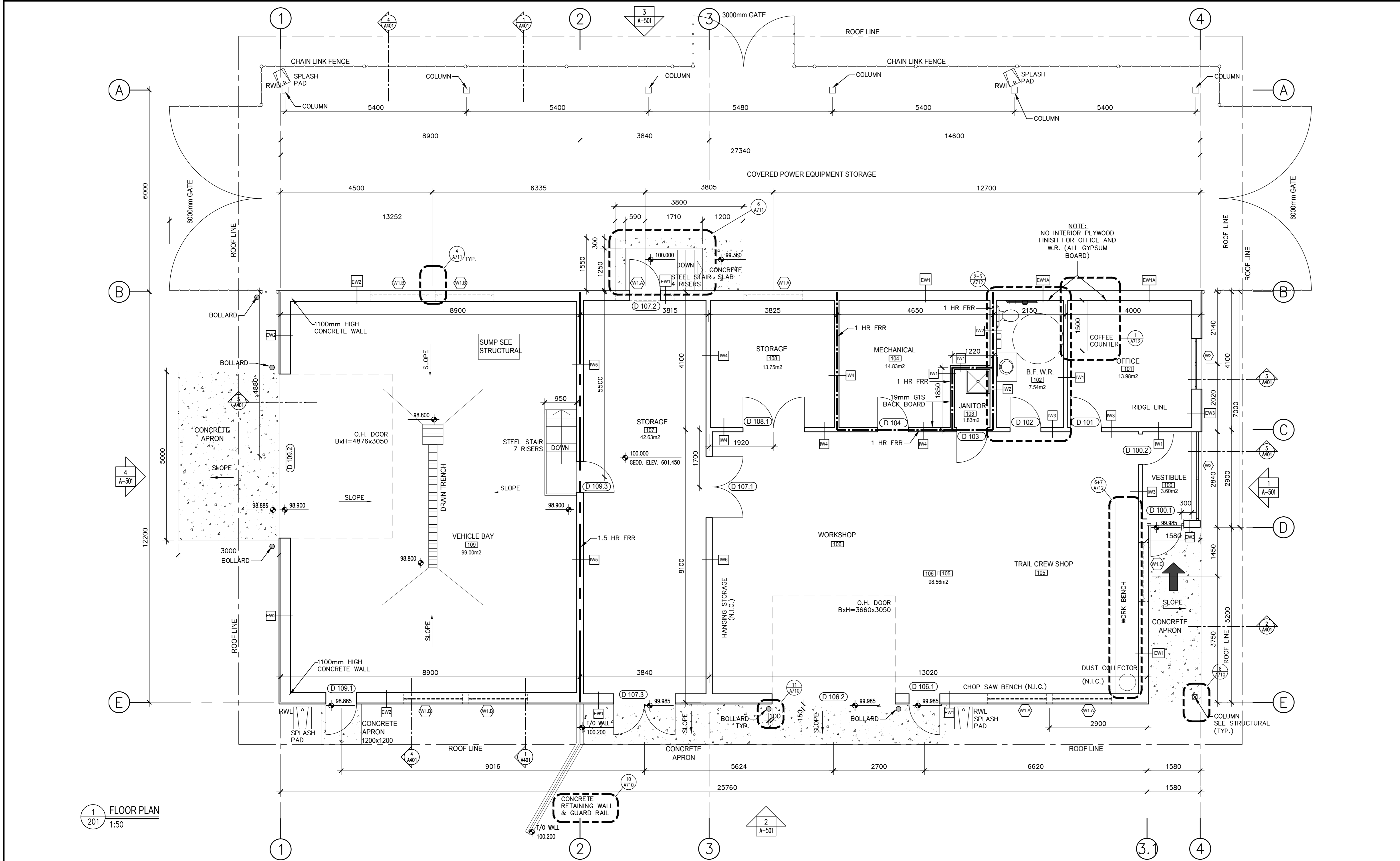
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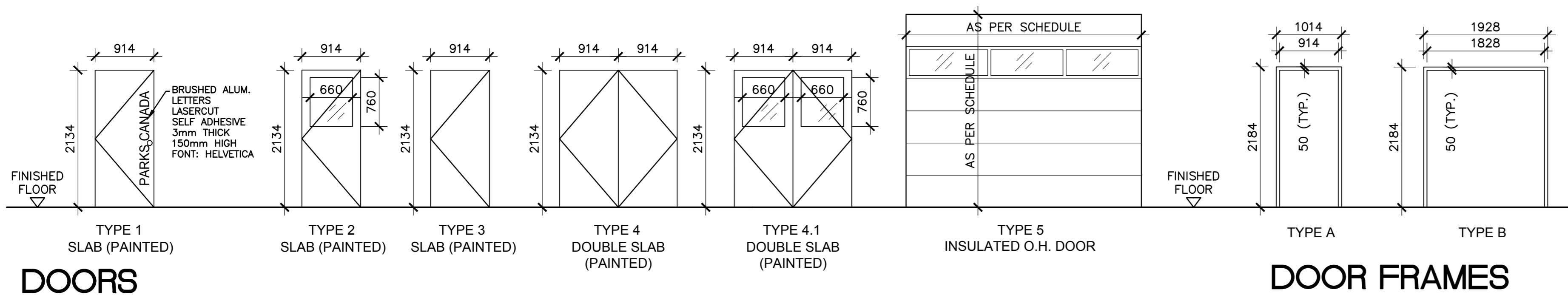
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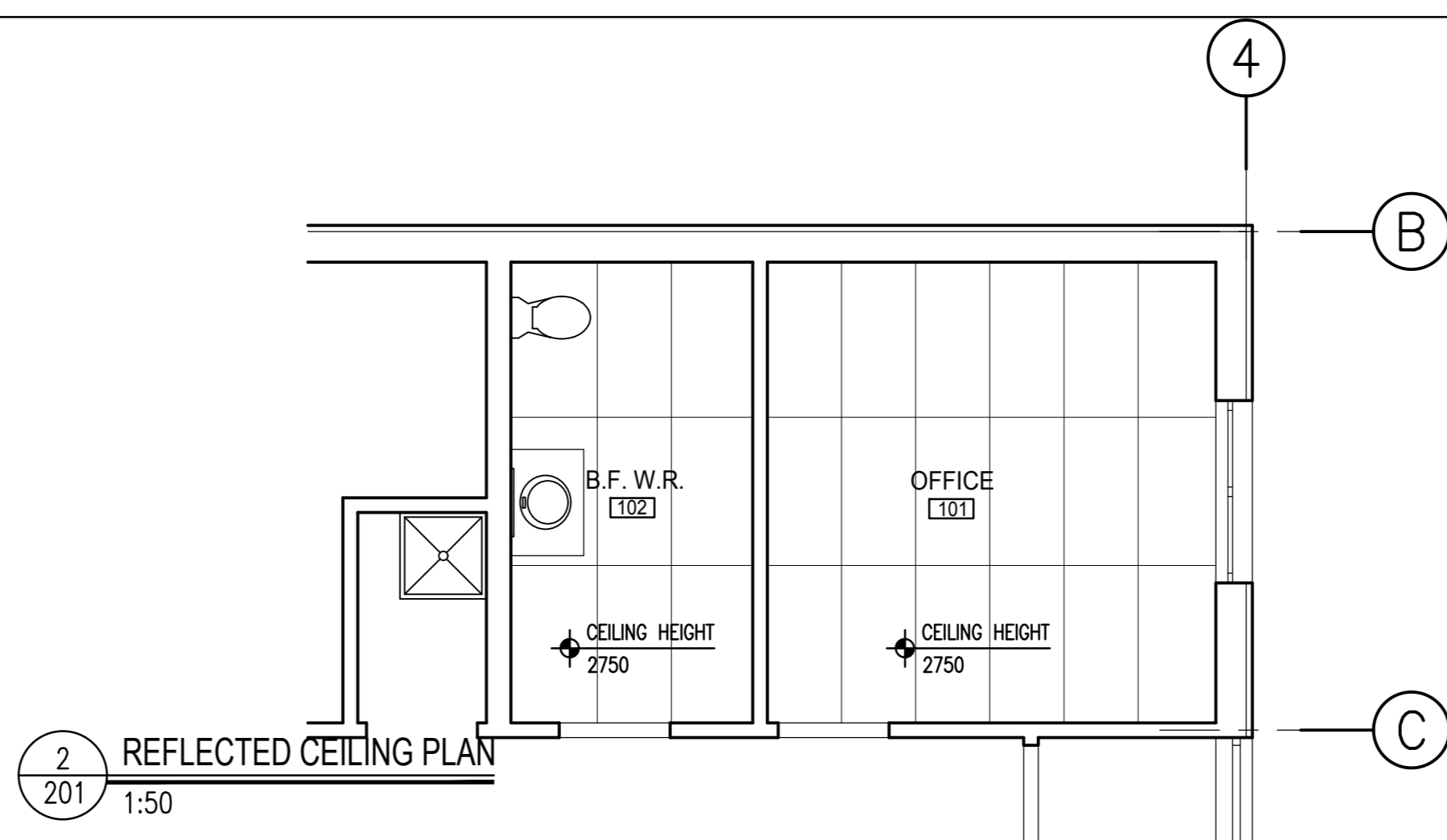


1  
201  
1:50  
FLOOR PLAN



DOORS

DOOR FRAMES



2  
201  
1:50  
REFLECTED CEILING PLAN

EXTERIOR WALL ASSEMBLIES:

- EW1** NOMINAL RSI = 9.3 k<sup>2</sup>m<sup>2</sup>/W
- VERTICAL CORRUGATED CLADDING
  - HORIZ. 19x89mm STRAPPING @ 406mm O.C.
  - VERTICAL 19x89mm STRAPPING @406mm O.C.
  - 50mm RIGID INSULATION
  - 13mm PLYWOOD SHEATHING
  - 38x184mm WOOD STUDS @406mm O.C.
  - 184mm MINERAL WOOL INSULATION
  - PRO CLIMA INTELLO PLUS VAPOR RETARDER
  - 38x89mm WOOD STUDS @406mm O.C.
  - 89mm MINERAL WOOL INSULATION
  - 16mm G1S, T&G PLYWOOD SHEATHING, PT.
- EW1A** NOMINAL RSI = 9.3 k<sup>2</sup>m<sup>2</sup>/W
- VERTICAL CORRUGATED CLADDING
  - HORIZ. 19x89mm STRAPPING @ 406mm O.C.
  - VERTICAL 19x89mm STRAPPING @406mm O.C.
  - 50mm RIGID INSULATION
  - 13mm PLYWOOD SHEATHING
  - 38x184mm WOOD STUDS @406mm O.C.
  - 184mm MINERAL WOOL INSULATION
  - PRO CLIMA INTELLO PLUS VAPOR RETARDER
  - 38x89mm WOOD STUDS @406mm O.C.
  - 89mm MINERAL WOOL INSULATION
  - 16mm TYPE "X" GYPSUM BOARD, PT.
- EW2** NOMINAL RSI = 9.3 k<sup>2</sup>m<sup>2</sup>/W
- VERTICAL CORRUGATED CLADDING
  - HORIZ. 19x89mm STRAPPING @ 406mm O.C.
  - VERTICAL 19x89mm STRAPPING @406mm O.C.
  - 50mm RIGID INSULATION
  - 13mm PLYWOOD SHEATHING
  - 38x184mm WOOD STUDS @406mm O.C.
  - 184mm MINERAL WOOL INSULATION
  - PRO CLIMA INTELLO PLUS VAPOR RETARDER
  - 38x89mm WOOD STUDS @406mm O.C.
  - 89mm MINERAL WOOL INSULATION
  - METAL LINING TO 2440mm
  - 16mm TYPE "X" GYPSUM BOARD, PT. ABOVE 2440mm
- EW3** RIDGEWOOD D5
- EW4** SIMILAR TO EW1A BUT NO HORIZ. STRAPPING
- EW1** CONCRETE FIBER BOARD (FIBER "C")
- EW1** SIMILAR TO EW1
- 100mm CONCRETE FACED RIGID INSULATION
  - DAMP-PROOFING
  - 250mm CONCRETE FOUNDATION WALL/SLAB THICKENING
- EW2** NOMINAL RSI = 3.08 k<sup>2</sup>m<sup>2</sup>/W
- VERTICAL CORRUGATED CLADDING
  - 19x89mm STRAPPING @406mm O.C.
  - 100mm CONCRETE RIGID INSULATION
  - DAMP-PROOFING TO 200mm ABOVE GRADE
  - 250mm CONCRETE FOUNDATION WALL/SLAB THICKENING

FLOOR ASSEMBLIES:

- F1** REINFORCED CONCRETE SLAB – REFER TO STRUCTURAL DRAWINGS
- 10ml. POLY GROUND SHEET
  - 100mm RIGID INSULATION TO 1220mm INSIDE PERIMETER
  - 150mm GRANULAR BASE SUBSTRUCTURE PREPARED PER RECOMMENDATIONS CONTAINED IN GEOTECHNICAL ENGINEERS REPORT

ROOF ASSEMBLIES:

- R1** FRR 1 HOUR, RSI = 11.4 k<sup>2</sup>m<sup>2</sup>/W
- NBCC 2015 D-2.3.4-B
  - STANDING SEAM METAL ROOFING
  - HIGH TEMPERATURE UNDERLAYMENT
  - 16mm PLYWOOD SHEATHING
  - WOOD TRUSS @ 610mm O.C.
  - 450mm CELLULOSE BLOW IN INSULATION
  - 6ml. POLY VAPOR BARRIER
  - 16mm STRUCTURAL PLYWOOD SHEATHING
  - 16mm TYPE "X" GYPSUM BOARD
  - 16mm TYPE "X" GYPSUM BOARD
- R2** RSI = 11.4 k<sup>2</sup>m<sup>2</sup>/W
- STANDING SEAM METAL ROOFING
  - HIGH TEMPERATURE UNDERLAYMENT
  - 16mm PLYWOOD SHEATHING
  - WOOD TRUSS @ 610mm O.C.
  - 450mm CELLULOSE BLOW IN INSULATION
  - 6ml. POLY VAPOR BARRIER
  - 16mm G1S, T&G, PLYWOOD SHEATHING, PT.
- R3** STANDING SEAM METAL ROOFING
- HIGH TEMPERATURE UNDERLAYMENT
  - 16mm PLYWOOD SHEATHING
  - PURLINS AS PER STRUCTURAL
  - EXPOSED WOOD TRUSSES @ 1220mm O.C.; PAINTED
- R4** STANDING SEAM METAL ROOFING
- HIGH TEMPERATURE UNDERLAYMENT
  - 16mm PLYWOOD SHEATHING
  - RATERS AS PER STRUCTURAL
  - INSECT SCREEN
  - WOOD BOARD SIDING 19x89 @ 108mm O.C.

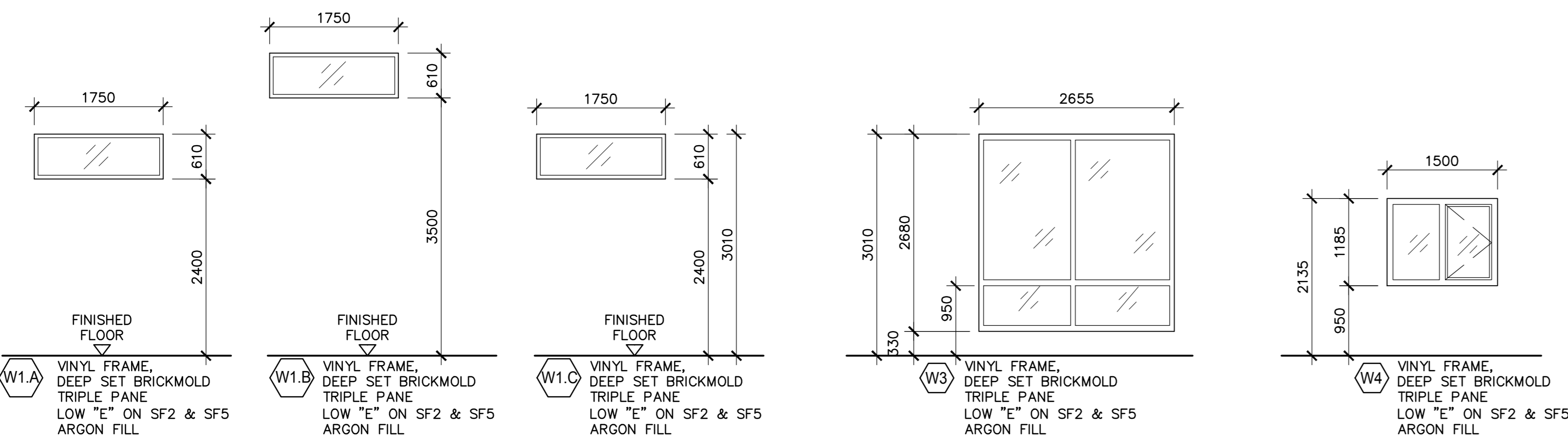
INTERIOR WALL LEGEND:

- W1** FFR 1 HOUR – ULC W310
- 16mm TYPE "X" GYPSUM BOARD
  - 38x89mm STUDS @ 406mm O.C.
  - SOUND INSULATION
  - 16mm TYPE "X" GYPSUM BOARD
- W2** FFR 1 HOUR – ULC W310
- 16mm TYPE "X" GYPSUM BOARD
  - 38x140mm STUDS @ 406mm O.C.
  - SOUND INSULATION
  - 16mm TYPE "X" GYPSUM BOARD
- W3** FFR 1 HOUR – ULC W310
- 16mm TYPE "X" GYPSUM BOARD
  - 38x89mm STUDS @ 406mm O.C.
  - SOUND INSULATION
  - 16mm TYPE "X" GYPSUM BOARD
- W4** FFR 1 HOUR – ULC W310
- 16mm G1S PLYWOOD SHEATHING
  - 16mm TYPE "X" GYPSUM BOARD
  - 38x89mm STUDS @ 406mm O.C.
  - SOUND INSULATION
  - 16mm TYPE "X" GYPSUM BOARD
- W5** FFR 1.5 HOUR ULC U301
- 16mm G1S PLYWOOD SHEATHING
  - 16mm TYPE "X" GYPSUM BOARD
  - 16mm TYPE "X" GYPSUM BOARD
  - 38x140mm STUDS @ 406mm O.C.
  - SOUND INSULATION
  - 13mm PLYWOOD SHEATHING
  - 16mm TYPE "X" GYPSUM BOARD
  - 16mm TYPE "X" GYPSUM BOARD
  - 19x89mm STRAPPING
  - METAL LINING TO 2740mm
- W6** 16mm G1S PLYWOOD SHEATHING
- 38x140mm STUDS @ 406mm O.C.
  - SOUND INSULATION
  - 16mm G1S PLYWOOD SHEATHING

— FRR 1HR  
— FRR 1.5HR

DOOR SCHEDULE

DOOR NAME	ROOM NAME	SIZE B x H	TYPE	MAT.	FINISH	FRAME	RATING	HARDWARE	LEGEND
D100.1	VESTIBULE	914 x 2134	1	IHM	PTD	A	PS/TB	PTD	IHM INSULATED METAL
D100.2	VESTIBULE	914 x 2134	3	HM	PTD	A	PS	PTD	IHM HOLLOW METAL
D101	OFFICE	914 x 2134	3	HM	PTD	A	PS	PTD	TB THERMALLY BROKEN
D102	B.F.W.R.	914 x 2134	3	HM	PTD	A	PS	PTD	PS PRESSED STEEL
D103	JANITOR	914 x 2134	3	HM	PTD	A	PS	PTD	PTD PAINTED
D104	MECHANICAL	914 x 2134	3	HM	PTD	A	PS	PTD	
D105	—DELETED—								
D106.1	WORKSHOP	914 x 2134	2	IHM	PTD	A	PS/TB	PTD	
D106.2	WORKSHOP	3660 x 3000	5						
D107.1	STORAGE	2 x 914 x 2134	4	HM	PTD	B	PS	PTD	
D107.2	STORAGE	914 x 2134	2	IHM	PTD	A	PS/TB	PTD	
D107.4	STORAGE	2 x 914 x 2134	4.1	IHM	PTD	A	PS/TB	PTD	
D108.1	STORAGE	3660 x 3000	5						
D108.2	—DELETED—								
D108.3	—DELETED—								
D108.4	—DELETED—								
D109.1	VEHICLE BAY	914 x 2134	2	IHM	PTD	A	PS/TB	PTD	
D109.2	VEHICLE BAY	4878 x 3000	5						
D109.3	VEHICLE BAY	914 x 2134	3	HM	PTD	A	PS	PTD	



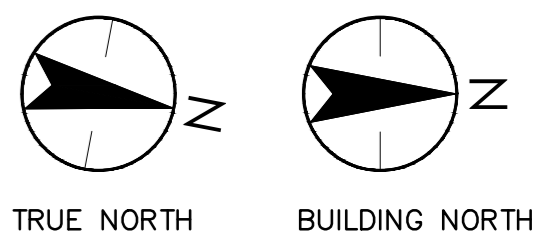
WINDOWS



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NOTES:

- EXTERIOR DIMENSIONS TO FACE OF PLYWOOD SHEATHING
- INTERIOR DIMENSIONS TO CENTER OF WALL STUD
- ALL EXTERIOR EXPOSED STEEL TO BE HOT DIPPED GALVANI-ED



0	ISSUED FOR TENDER	18/03/21
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Client/Client

PARKS CANADA  
HAINES JUNCTION, Y.T.

Project title/Titre du projet

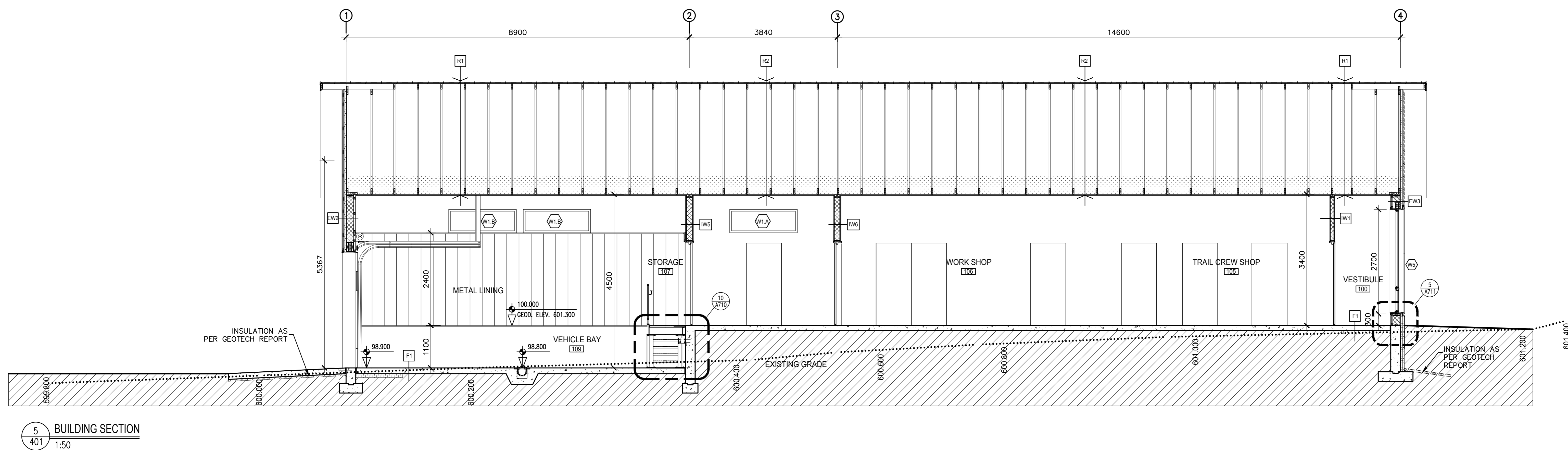
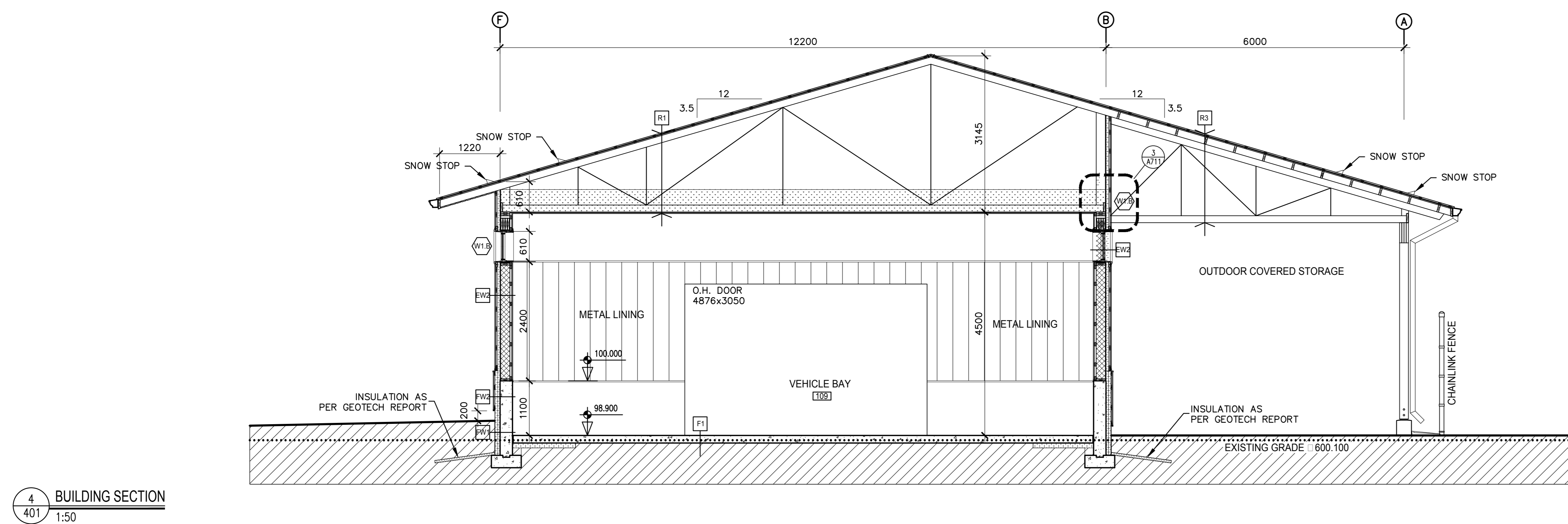
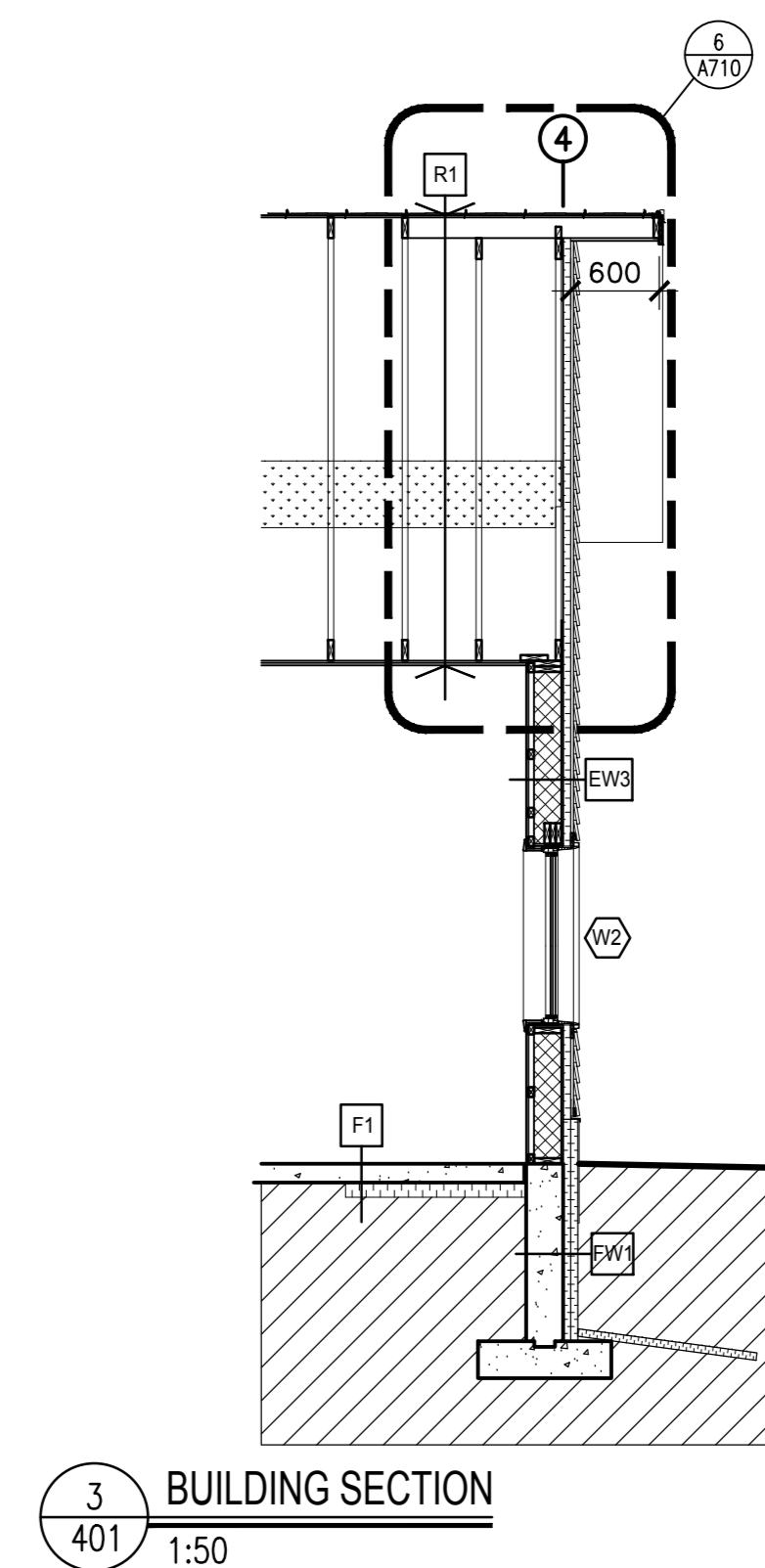
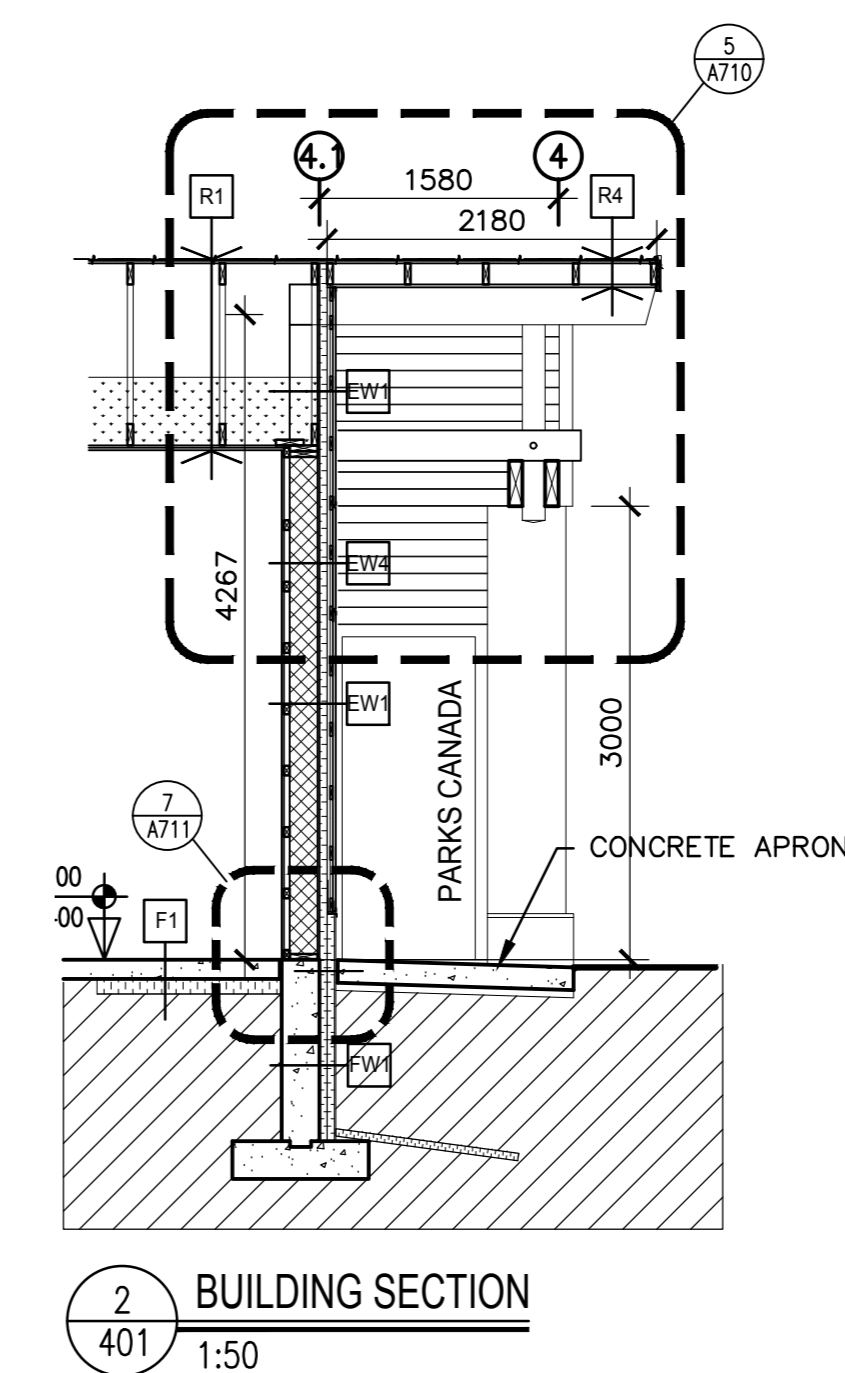
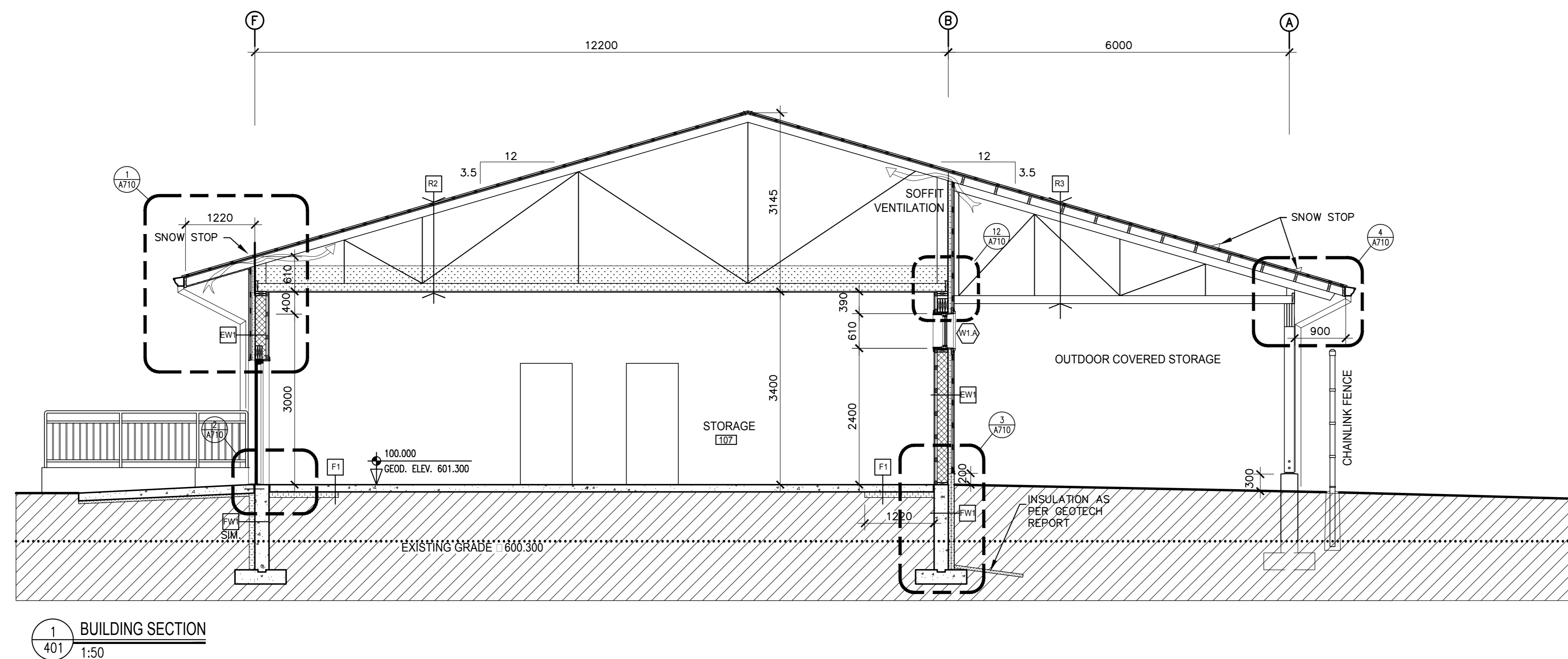
TRADES BUILDING  
KLUANE PARK  
HEAD QUARTERS

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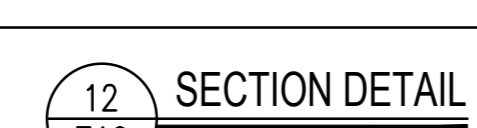
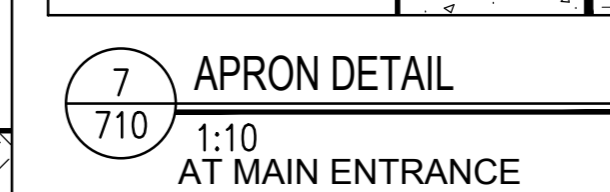
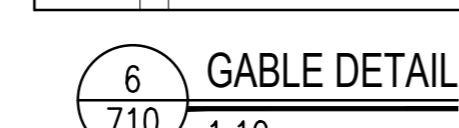
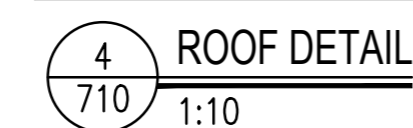
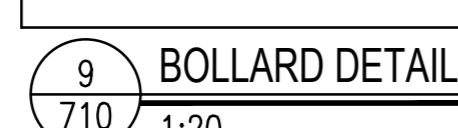
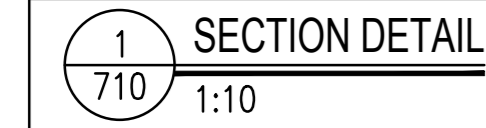
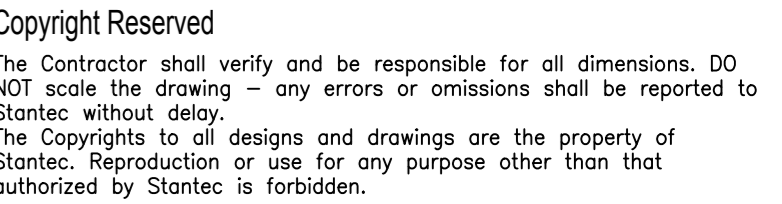
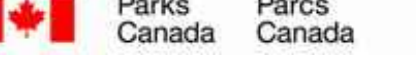
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PWSC: Project Manager/Administrateur de Projets TFSC  
STEPHANIE CLAVEL  
PWSC: Regional Manager, Architectural and Engineering Services/  
Services d'architectural et de génie, TFSC  
PREETIPAL PAUL

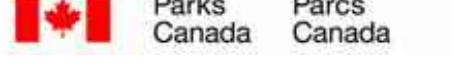
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FLOOR PLAN  
DOOR & WINDOW SCHEDULE

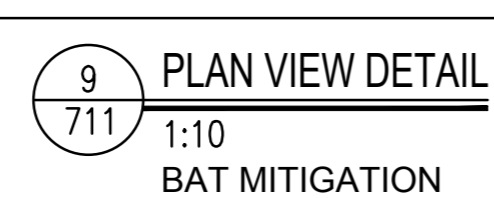
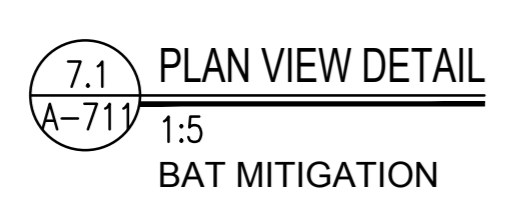
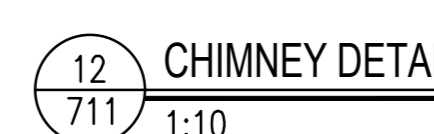
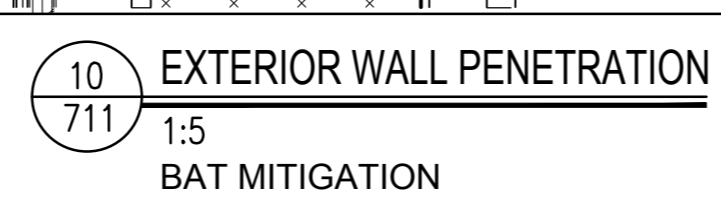
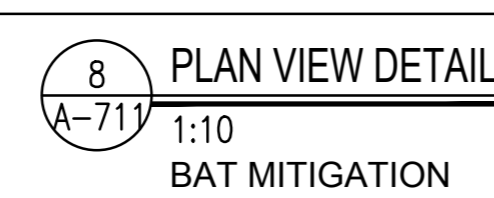
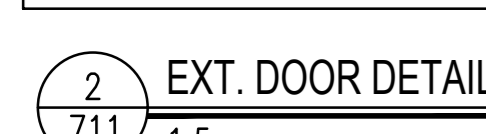
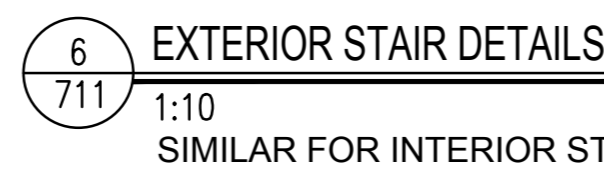
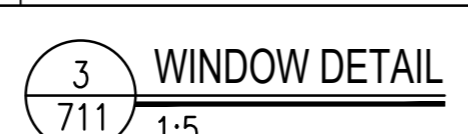








KNPHQ - TRADES BUILDING

Client/client

title/Titre du projet

Approval Box Only

Consultant Approval Box Only

Designed by/Concept par  
TE/IR

Designed by/Concept par  
TE/IR

Drawn by/Dessiné par

**TF**

PWGSC Project Manager/Administrator

STEPHANE CLAVEL

PWGSC, Regional Manager, Architect  
Gestionnaire régionale, Services d'ar  
**PREETIPAL PAUL**

Drawing title/Titre du dessin

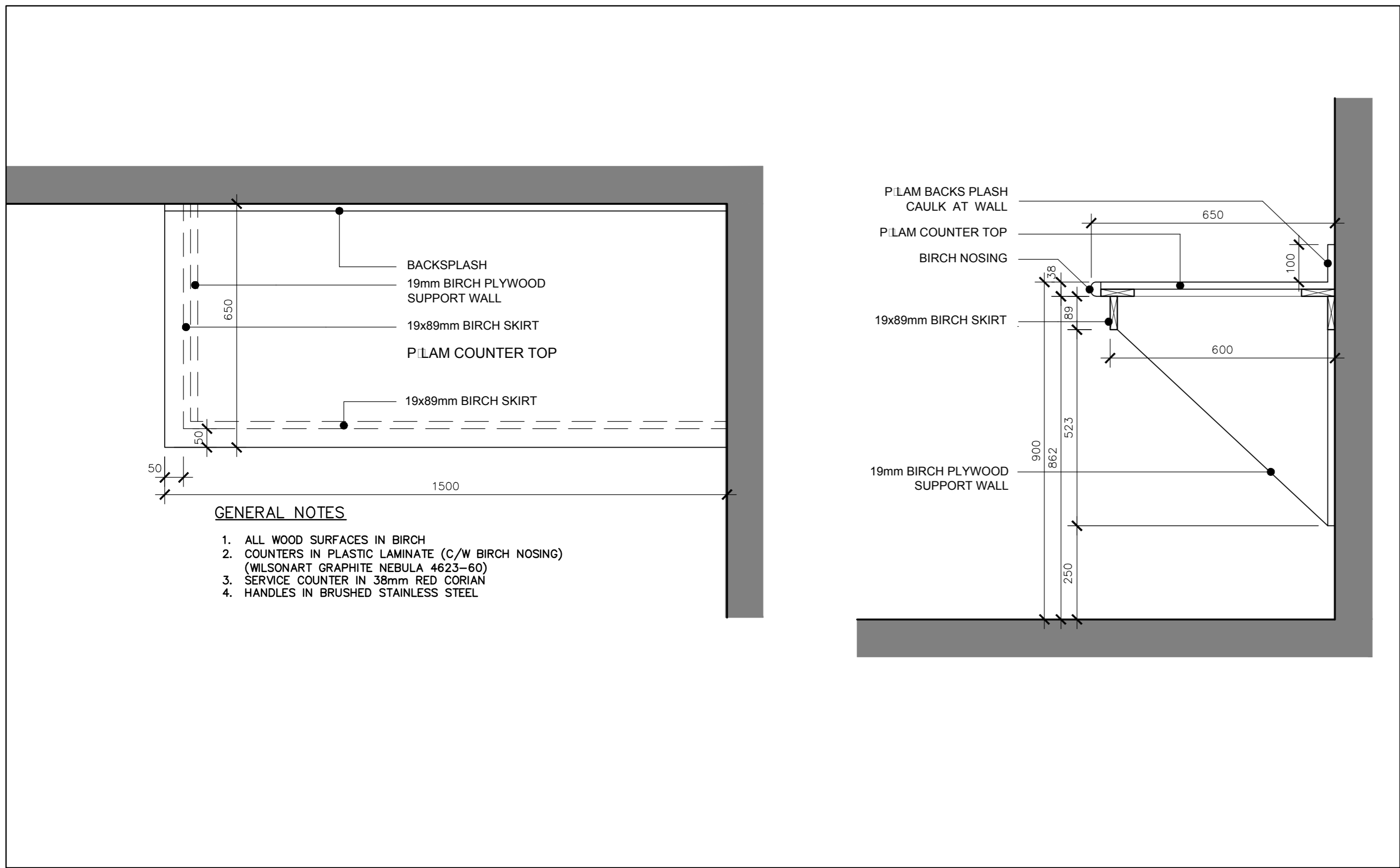
## DETAILS

## DETAILS

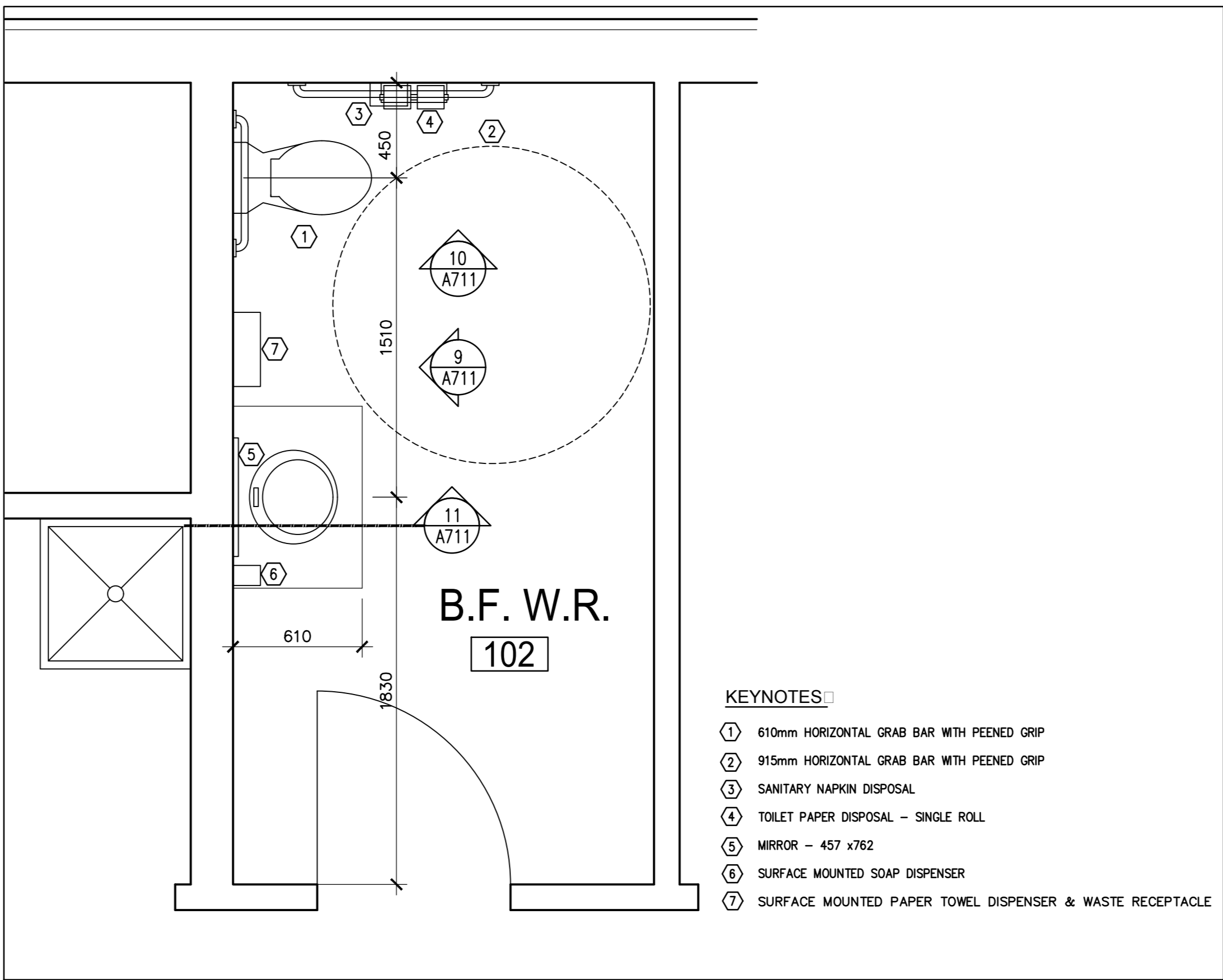
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A 711

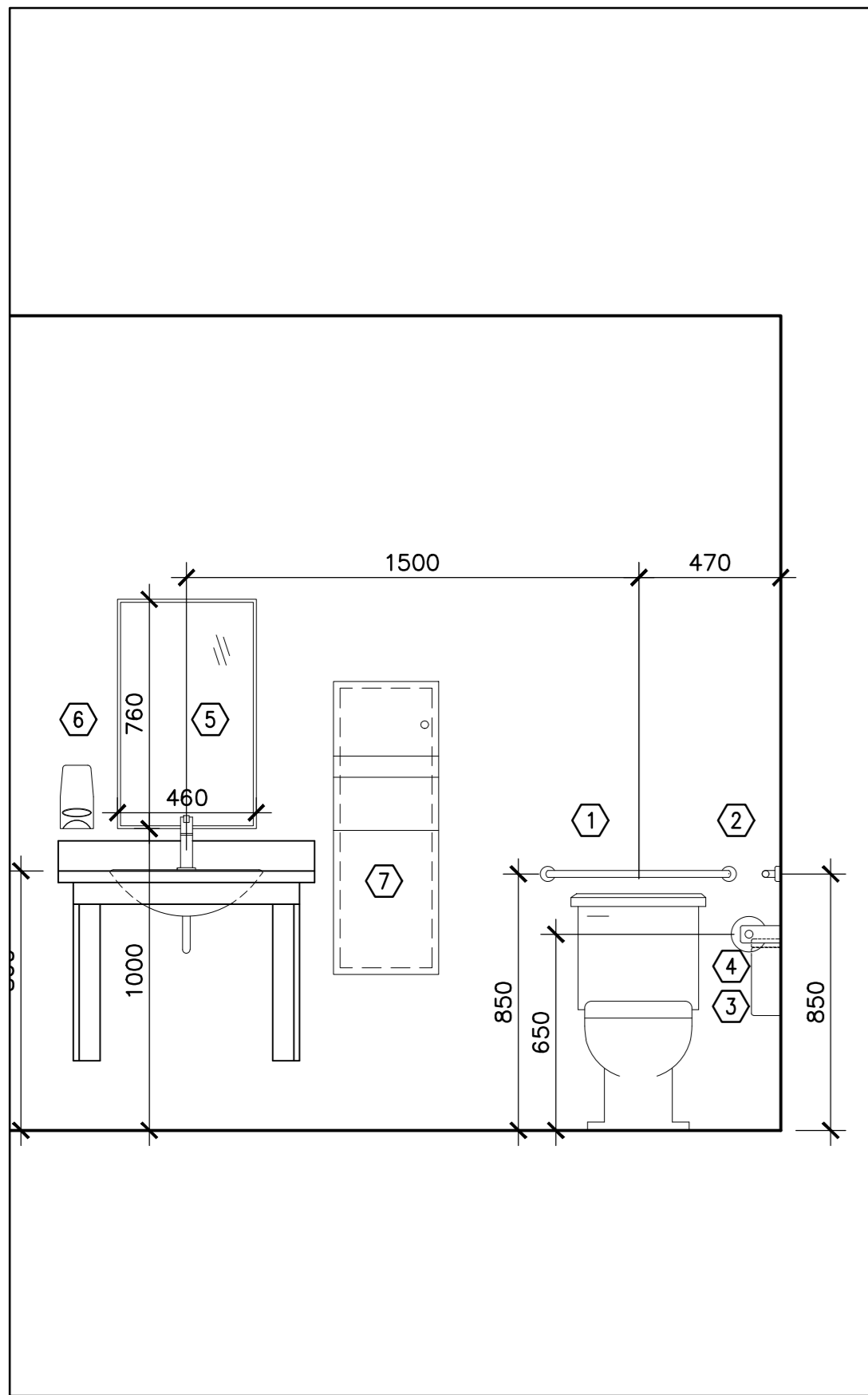
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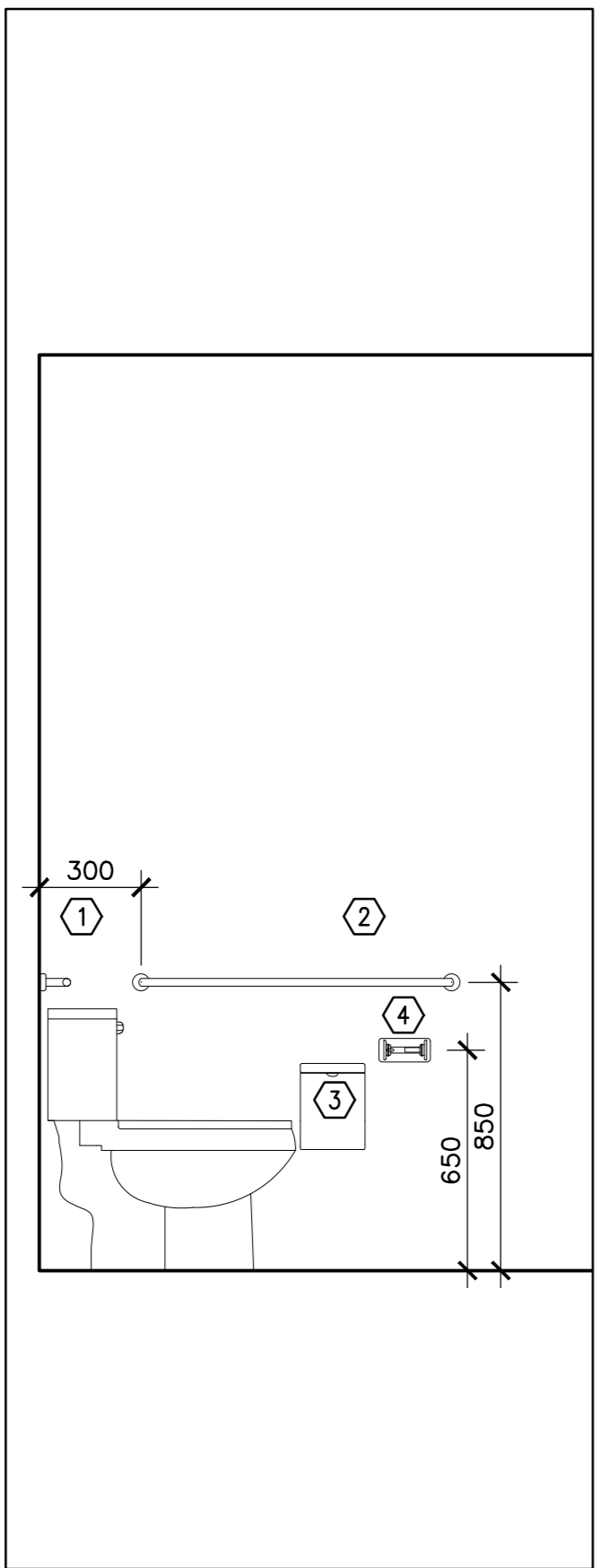
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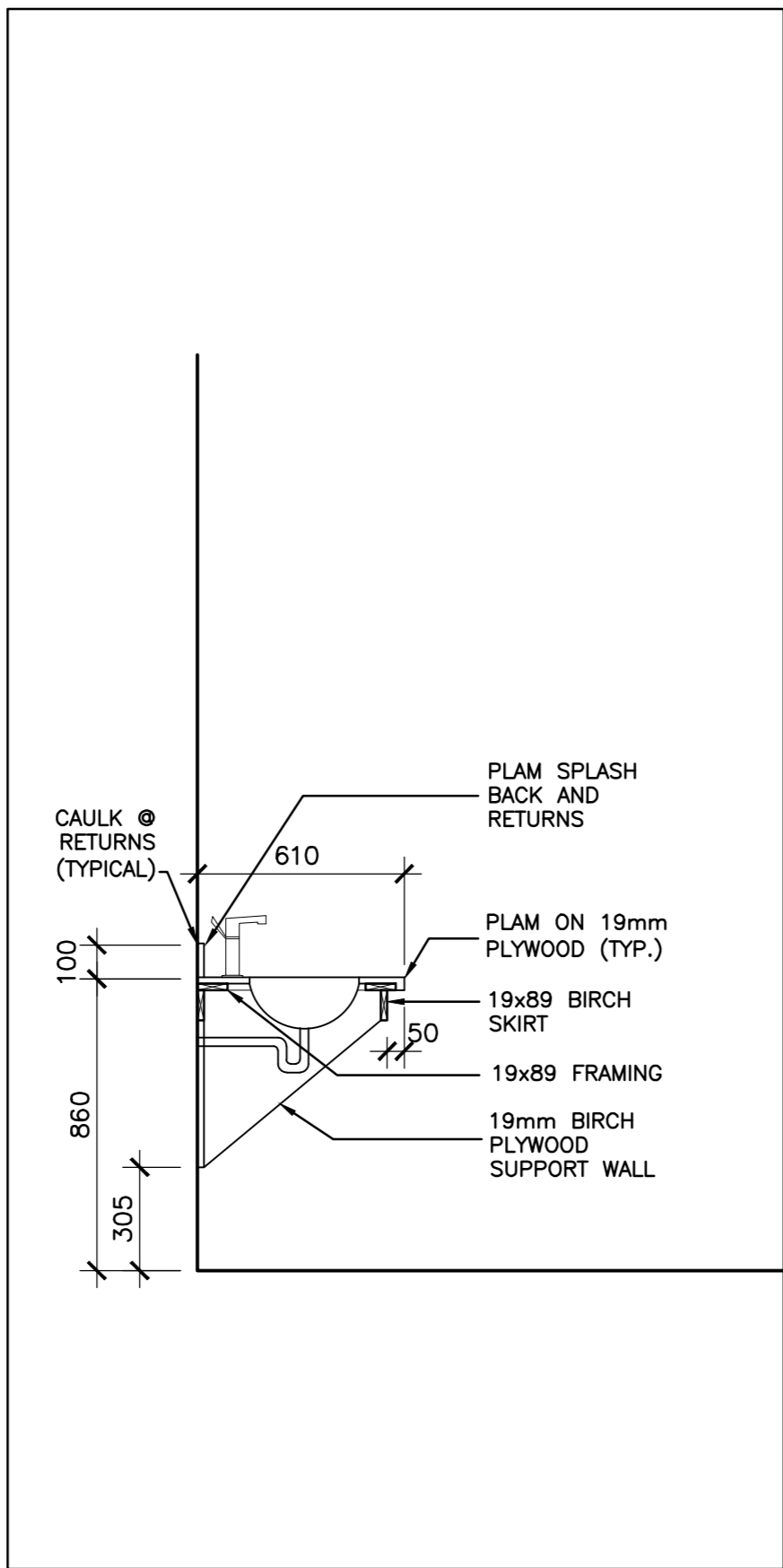
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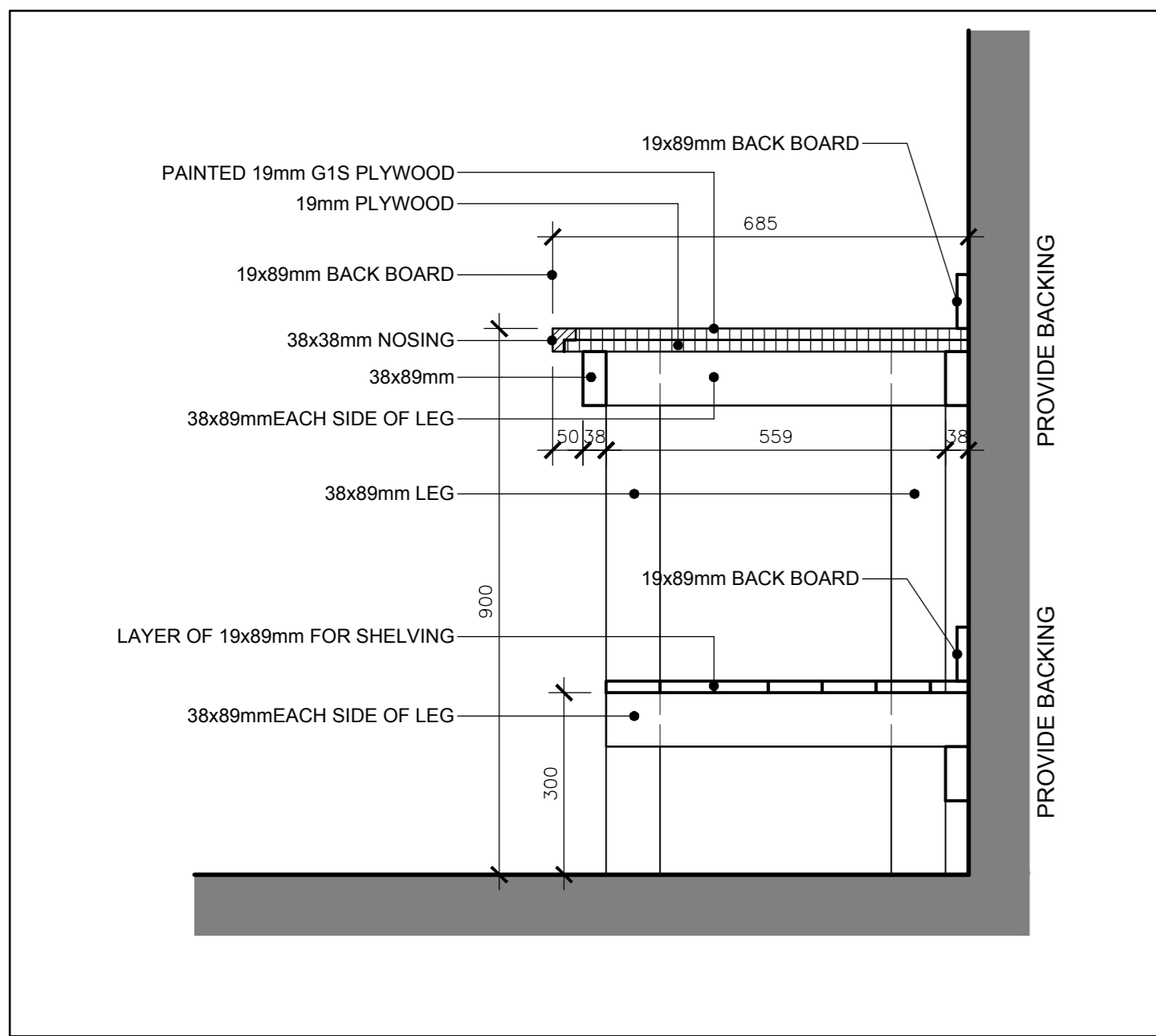
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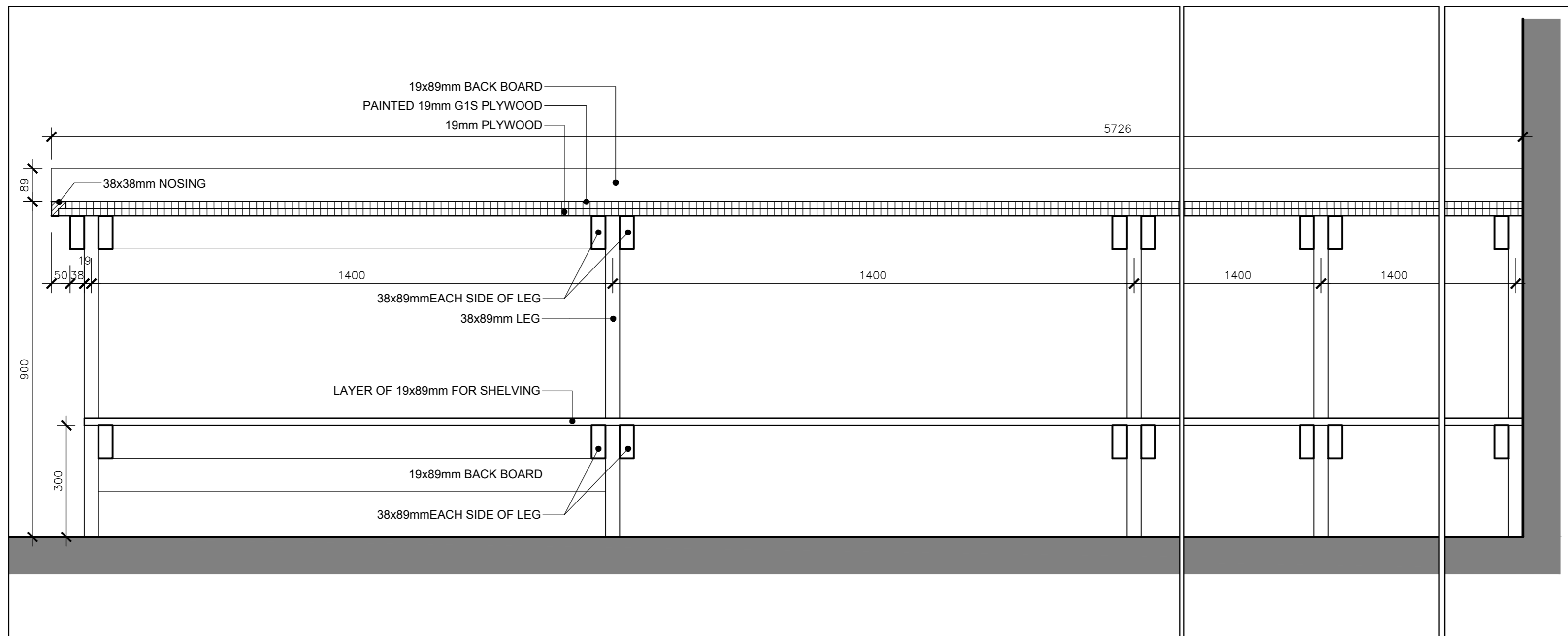
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5  
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6  
712  
WORK BENCH SECTION DETAIL  
1:10



7  
712  
WORK BENCH SECTION DETAIL  
1:10

SIMILAR FOR ALL EXTERIOR COLUMNS



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8	ISSUED FOR TENDER	18/03/21
Revisory / Révisory	Description / Description	Date / Date

Client / Client

PARKS CANADA  
HAINES JUNCTION, Y.T.

Project title / Titre du projet

TRADES BUILDING  
KLUANE PARK  
HEAD QUARTERS

Consultant Approval Box Only

JB

Designed by/Concept par

TFUB

Drawn by/Dessiné par

TF

PWSC: Project Manager/Administrateur de Projets: TFSOC

STEPHANE CLAVEL

PWSC: Regional Manager, Architectural and Engineering Services/

PREETIPAL PAUL

Drawing title / Titre du dessin

DETAILS

Project No./No. du projet	Sheet / Feuille	Revision no./ La Révision no.
R.075647.001	A 712 7 OF 7	0

## DESIGN NOTES

## GENERAL

- ALL CODES REFERENCED ARE TO BE THE LATEST VERSION AT THE DATE OF ISSUE.
- DESIGN IS BASED ON THE NATIONAL BUILDING CODE 2015.
- READ THESE DESIGN NOTES IN CONJUNCTION WITH THE CONTRACT SPECIFICATIONS AND ALL OTHER CONTRACT DOCUMENTS.
- OBTAIN DEPARTMENTAL REPRESENTATIVE'S APPROVAL BEFORE CUTTING, BORING, OR SLEEVING LOAD-BEARING MEMBERS UNLESS NOTED OTHERWISE.
- THE STRUCTURAL DRAWINGS ARE FOR THE COMPLETED PROJECT. STABILITY OF THE NEW STRUCTURE DURING CONSTRUCTION REMAINS THE RESPONSIBILITY OF THE CONTRACTOR.
- REFER TO ARCHITECTURAL, MECHANICAL, AND ELECTRICAL DRAWINGS FOR SMALL OPENINGS, SLEEVES, RECESSES, DEPRESSIONS, SUMPS, TRENCHES, CURBS, HOUSEKEEPING PADS, EQUIPMENT BASES, AND SLOPES NOT INDICATED ON THE STRUCTURAL DRAWINGS.
- OPENINGS AND SLEEVES INDICATED ON THE STRUCTURAL DRAWINGS ARE FOR REFERENCE ONLY. COORDINATE ALL OPENING LOCATIONS AND DIMENSIONS WITH THE APPROPRIATE CONSULTANT AND THE SUB-CONTRACTOR PRIOR TO CONSTRUCTION.
- REVIEW ALL DRAWINGS AND CHECK DIMENSIONS PRIOR TO IMPLEMENTING THE WORK. REPORT ANY DISCREPANCIES TO THE CONSULTANT FOR CLARIFICATION BEFORE PROCEEDING.
- COORDINATE PLACEMENT AND LOCATION OF ITEMS BY SUBSEQUENT TRADES. RELEVANT TRADES SHALL REVIEW PRIOR TO ERECTION AND/OR INSTALLATION.
- NOTIFY THE DEPARTMENTAL REPRESENTATIVE A MINIMUM OF 48 HOURS PRIOR TO ANY REQUIRED SITE REVIEWS.

## DESIGN LOADS

- UNLESS NOTED OTHERWISE, THE LOADS NOTED IN TABLES AND ON DRAWINGS ARE UNFACTORED.
- CLIMATIC INFORMATION—REFER TO CLIMATIC INFORMATION TABLE
- SITE INFORMATION—REFER TO SITE INFORMATION TABLE
- DESIGN LOADS—REFER TO DESIGN LOADS TABLE
- LATERAL LOADS
  - LATERAL LOADS FROM WIND AND SEISMIC LOADS ARE RESISTED BY THE TIMBER SHEAR WALLS.
- CONSTRUCTION LOADS SHALL NOT EXCEED THE LOADS NOTED ON THE DRAWINGS.

## DELEGATED DESIGN

- PORTIONS OF THE DETAILED DESIGN ARE DELEGATED TO THE CONTRACTOR. RETAIN A PROFESSIONAL ENGINEER REGISTERED IN THE PROVINCE OF YUKON TO COMPLETE THE DESIGN.
- SUBMIT SHOP DRAWINGS FOR COMPONENTS REQUIRING DELEGATED DESIGN UNDER THE SEAL AND SIGNATURE OF THE ENGINEER RESPONSIBLE FOR THE DESIGN.
- THE FOLLOWING COMPONENTS REQUIRE DELEGATED DESIGN:
  - PRE-FABRICATED WOOD TRUSSES
  - INTERIOR AND EXTERIOR STEEL STAIRS INCLUDING THE CONNECTIONS, FOR THE STAIRS CONFIGURATION, SEE ARCH. DRAWINGS
- THE ENGINEER RESPONSIBLE FOR THE DESIGN IS ALSO RESPONSIBLE FOR REVIEW OF FABRICATION.
- REFER TO SPECIFICATIONS FOR FURTHER REQUIREMENTS.

## FOUNDATION AND GEOTECHNICAL NOTES

- FOUNDATION DESIGN IS BASED ON THE FOUNDATION INVESTIGATION SOILS REPORT NUMBER W14103509-01 PREPARED BY TETRA TECH E&A AND DATED DECEMBER 5, 2014. ENSURE THAT THE REQUIREMENTS OUTLINED IN THE REPORT ARE READ AND UNDERSTOOD PRIOR TO COMMENCING WITH FOUNDATION WORK.
- UNLESS NOTED OTHERWISE BEAR ALL FOOTINGS ON UNDISTURBED SOIL. NOTWITHSTANDING THE ELEVATIONS INDICATED ON THE DRAWINGS.
- REMOVE ALL ORGANIC MATERIAL FROM THE BUILDING AREA AS OUTLINED IN THE GEOTECHNICAL REPORT.
- REMOVE ALL LOOSE OR SATURATED MATERIAL AND GROUNDWATER FROM THE BASE OF FOOTING EXCAVATIONS BY APPROVED METHODS PRIOR TO PLACING FOUNDATIONS.
- PROTECT EXCAVATIONS FOR FOOTINGS FROM RAIN, SNOW, FREEZING TEMPERATURES, STANDING WATER, LOSS OF MOISTURE AND DEGRADATION BY APPROVED METHODS.
- BEARING SURFACES TO BE INSPECTED IN THE FIELD BY A PROFESSIONAL GEOTECHNICAL ENGINEER REGISTERED IN THE YUKON PRIOR TO PLACING CONCRETE.
- GEOTECHNICAL TESTING AGENCY TO BE APPROVED BY AND RESPONSIBLE TO THE DEPARTMENTAL REPRESENTATIVE AND PAID FOR BY THE CONTRACTOR.
- FOUNDATION HAVE BEEN DESIGNED ASSUMING AN EFFECTIVE DRAINAGE SYSTEM IS PROVIDED BEHIND THE WALLS.
- GRANULAR BACKFILL MATERIAL — REFER TO GEOTECHNICAL REPORT

## CAST-IN-PLACE REINFORCED CONCRETE

- CONCRETE MATERIALS, QUALITY, MIXING, PLACING, FORMWORK AND OTHER CONSTRUCTION PRACTICES TO CONFORM TO THE LATEST EDITION OF CSA

A23.1, A23.2, AND A23.3.

- SUPPLY CONTROLLED CONCRETE IN ACCORDANCE WITH CSA-A23.1 WITH PROPERTIES NOTED IN CONTROLLED CONCRETE TABLE.
- NOTIFY CONSULTANT 48 HOURS PRIOR TO CONCRETE POURS TO ALLOW FOR REVIEW OF REINFORCEMENT.
- DO NOT USE ADMIXTURES CONTAINING CALCIUM CHLORIDE.
- FOR FLOOR SLABS, DESIGN THE CONCRETE MIX WITH AGGREGATE GRADING AND WATER TO CEMENTING MATERIALS RATIO TO MINIMIZE SHRINKAGE.
- ALL CONTROL JOINTS SHALL BE SAW-CUT TO A DEPTH OF  $\frac{1}{4}$  OF THE SLAB THICKNESS OR 25mm, WHICHEVER IS GREATER. FILL ALL JOINTS WITH ELASTOMERIC JOINT SEALANT ACCEPTABLE PRODUCT SIKAFLEX PRODUCT. SEE CONTROL JOINT DIAGRAM ON 4/S-001
- FIELD AND LABORATORY TESTING OF CONCRETE TO BE COMPLETED BY A THIRD PARTY TESTING AND INSPECTION AGENCY APPROVED BY AND RESPONSIBLE TO THE DEPARTMENTAL REPRESENTATIVE. TESTING AGENCY SHALL BE CERTIFIED TO CSA-A23.3 AND TESTING TO BE COMPLETED IN ACCORDANCE WITH CSA-A23.2.
- DO NOT PLACE LOAD ON NEW CONCRETE OR POUR NEW CONCRETE ON NEW CONCRETE UNTIL AT LEAST 75% OF ITS 28 DAY STRENGTH IS ATTAINED. CONCRETE QUALITY CONTROL TESTING SHALL BE COMPLETED BY QUALIFIED PERSONNEL AND REPORTS ARE TO BE SUBMITTED TO THE DEPARTMENT REPRESENTATIVE.
- BUILDING IS NOT TO BE PUT INTO SERVICE UNTIL ALL CONCRETE COMPONENTS HAVE CURED FOR 28 DAYS OR PROOF THAT THE 28 DAY STRENGTH HAS BEEN ATTAINED THROUGH QUALITY CONTROL TESTING.
- FILL ALL HOLES IN CONCRETE MEMBERS CAUSED BY CONSTRUCTION PRACTICE WITH NON-SHRINK GROUT WITH A COMPRESSIVE STRENGTH EQUAL TO THAT OF THE CONCRETE.
- UNLESS OTHERWISE SPECIFIED, ALL CONCRETE ANCHOR BOLTS SHALL BE GRADE A307.
- PROVIDE VAPOUR BARRIER UNDER ALL SLAB-ON-GRADES. SEE ARCH. SPECIFICATION.
- CONCRETE SHALL NOT BE POURED IN AN UNCONFINED MANNER FROM A HEIGHT OF MORE THAN 1220mm.
- ALL BENDS IN PRIMARY REINFORCEMENT TO HAVE A RADIUS OF NOT LESS THAN 3 TIMES THE BAR DIAMETER.
- QUALITY CONTROL TESTING OF THE CONCRETE AND GROUTS MUST BE COMPLETED BY QUALIFIED PERSONNEL AND REPORTS ARE TO BE SUBMITTED TO THE DEPARTMENTAL REPRESENTATIVE.
- RIGID INSULATION UNDER THE CONCRETE FOUNDATION STRUCTURE SHALL BE EXTRUDED POLYSTYRENE TO THIS CHARACTERISTIC:  
UNDER THE SLAB-ON-GRD — MIN. COMPRESSIVE STRENGTH OF 40PSI (276 KPa).  
UNDER THE SPREAD FOOTING/RETAINING WALL— MIN. COMPRESSIVE STRENGTH OF 60PSI (414 KPa).

## CONCRETE REINFORCEMENT

- REINFORCEMENT STEEL TO CONFORM TO CSA-G30.18 GRADE 400.
- DO NOT WELD REINFORCEMENT UNLESS APPROVED IN WRITING BY THE DEPARTMENTAL REPRESENTATIVE. REINFORCEMENT TO BE WELDED TO CONFORM TO CSA-G30.18, GRADE 400W.
- NOTIFY THE DEPARTMENTAL REPRESENTATIVE PRIOR TO CONCRETE PLACEMENT TO ALLOW FOR REVIEW OF REINFORCEMENT.
- CLEAR CONCRETE COVER TO REINFORCEMENT — REFER TO CLEAR CONCRETE COVER TO REINFORCEMENT TABLE.
- REINFORCEMENT SPLICES — REFER TO REINFORCEMENT SPLICES TABLE.
  - WHERE SPLICES ARE INDICATED ON THE DRAWINGS, SUCH DIMENSIONS SHALL APPLY.
  - WHERE THE DRAWINGS INDICATE TENSION OR COMPRESSION SPLICES, IT SHALL BE AS INDICATED IN REINFORCEMENT SPLICES TABLE.
  - WHERE NO SPLICE OR SPLICE TYPE IS INDICATED ON THESE DRAWINGS, IT SHALL BE TENSION SPLICE EXCEPT FOR COLUMNS WHICH SHALL BE A COMPRESSION SPLICE.
- WELDED WIRE MESH TO CONFORM TO ASTM A497/A497M.
- DO NOT CUT REINFORCEMENT AT OPENINGS WHERE IT CAN BE SPREAD CONTINUOUS AROUND OPENING.
- OPENINGS IN WALLS AND SLABS — PROVIDE TWO 15M BARS EACH SIDE, ONE EACH FACE, EXTENDING 800 mm PAST THE OPENING PLUS TWO 15M DIAGONAL BARS 1.5 TIMES THE LENGTH OF SHORTEST SIDE OF OPENING OR MINIMUM 500 mm AND MAXIMUM 1500 mm IN LENGTH AT EACH CORNER.
- ALL REINFORCEMENT TO BE SUPPORTED AT 900 mm MAXIMUM SPACING.
- CLEAR CONCRETE COVER TO REINFORCEMENT — REFER TO CLEAR CONCRETE COVER TO REINFORCEMENT TABLE.
- STANDARD END HOOK LENGTHS FOR REINFORCEMENT — REFER TO STANDARD END HOOKS TABLE.
- REINFORCEMENT SPLICES — REFER TO REINFORCEMENT SPLICES TABLE.
  - WHERE SPLICES ARE INDICATED ON THE DRAWINGS, SUCH DIMENSIONS SHALL APPLY.
  - WHERE THE DRAWINGS INDICATE TENSION OR COMPRESSION SPLICES, IT SHALL BE AS INDICATED IN REINFORCEMENT SPLICES TABLE.

## TIMBER

- ALL WOODEN MEMBERS SHALL BE DESIGNED AND CONSTRUCTED IN ACCORDANCE WITH THE LATEST EDITION OF CSA 086.
- SUPPLY SAW LUMBER & STRUCTURAL COMPOSITE LUMBER WITH PROPERTIES NOTED IN TIMBER GRADES TABLE.

- SUPPLY ROOF/CEILING SHEATHING WITH PROPERTIES NOTED IN TIMBER GRADES TABLE. ALL PANEL EDGES SHALL BE BLOCKED WITH DIMENSION LUMBER AND NAIL WITH NAILING PATTERN SHOWN ON PLAN.
- SUPPLY WALL SHEATHING WITH PROPERTIES NOTED IN TIMBER GRADES TABLE. ALL PANEL EDGES SHALL BE BLOCKED WITH DIMENSION LUMBER AND NAIL WITH NAILING PATTERN SHOWN ON PLAN AND TIMBER NOTES.
- ENSURE ALL 75mm LONG NAILS HAVE A MINIMUM DIAMETER OF 3.66mm AND ALL 64mm LONG NAILS HAVE A MINIMUM DIAMETER OF 3.25mm. ALL SHEAR WALL NAILS SHALL HAVE FULL HEADS.
- INSTALL POST AT SHEAR WALL ENDS AS NOTED.
- UNLESS NOTED OTHERWISE, ALL DIMENSIONAL LUMBER SHALL BE SPECIES SPRUCE-PINE-FIR, GRADE No.1 / No.2. STRUCTURAL COMPOSITE LUMBER 2.0E MICROLAM LVL OR APPROVED ALTERNATIVES MAY BE ACCEPTED.
- BLOCK ALL EXTERIOR AND INTERIOR LOAD BEARING WALLS AT 1220mm INTERVALS (MAX) AND/OR AT PLYWOOD SHEATHING EDGES AND SHEATH ACCORDING TO SHEATHING SCHEDULE.
- WALL ANCHORAGE TO MAIN FLOOR SLAB AND FOUNDATION SHALL BE AS SHOWN ON THE DRAWING.
- ALL BUILT UP BEAMS AND COLUMNS SHALL BE LAMINATED USING ACCEPTABLE PRODUCT LEPAGE PL400 (APPROVED ALTERNATIVES OF GLUE MAY BE ACCEPTED) ADHESIVE AND SIMPSON STRONG TIE "SOS" SCREWS (APPROVED ALTERNATIVES OF SCREWS MAY BE ACCEPTED). SCREWS LENGTH SHALL BE EQUAL TO THE THICKNESS OF TWO PILES. PILES CONFIGURATION AND FASTENING LAYOUT SHALL DONE IN ACCORDANCE WITH PART 9 OF THE NBC 2015.
- INSTALL ROOF AND WALL ANCHORAGE AS PER DETAILS.
- IF AT ANY POINT WALL SHEATHING MUST BE JOINED WHERE NO STUD OR WALL PLATE EXISTS, AN ADDITIONAL STUD OR BLOCKING MUST BE INSTALLED AT THE SHEATHING SEAM DEPENDING ON THE ORIENTATION OF THE SEAM.
- STUDS IN SHEAR WALLS SHALL BE DOUBLED AT JOINS IN THE SHEATHING AND NAILS STAGGERED WHEN ANY OF THE FOLLOWING CONDITIONS APPLY:
  - 12.5mm SHEATHING, NAIL SPACING OF 50mm, 2 $\frac{1}{2}$ " NAILS
  - 12.5mm SHEATHING, NAIL SPACING OF 75mm OR LESS, 3" NAILS
  - 16mm SHEATHING, NAIL SPACING OF 75mm OR LESS
- ALL COLUMNS SHALL BE BLOCKED THROUGH THE FLOOR ASSEMBLY. BLOCKING SHALL BE EQUAL IN SIZE AND GRADE TO THE COLUMN ABOVE.
- ALL BOLTS CONNECTING WOOD TO WOOD OR WOOD TO CONCRETE SHALL BE GRADE ASTM A307. BOLTS SHALL BE GALVANIZED.
- JOIST HANGERS, WHERE REQUIRED TO BE GALVANIZED SADDLE TYPE ONLY, NAILED AS PER THE MANUFACTURER'S RECOMMENDATIONS TO DEVELOP FULL CAPACITY OF HANGER.
- DO NOT SPLICE BUILT-UP BEAMS OR COLUMNS.
- ALL DIMENSIONAL LUMBER TO BE EXPOSED TO THE ATMOSPHERE SHALL BE PRESSURE TREATED OR FINISHED WITH A WEATHER RESISTANT COATING. ALL ENGINEERED LUMBER TO BE EXPOSED TO THE ATMOSPHERE SHALL BE TREATED WITH A WEATHER RESISTANT COATING APPLIED AT THE MANUFACTURER'S FACILITY PRIOR TO SHIPMENT TO SITE. ALL PRESSURE TREATED MEMBERS SHALL BE UNNOISED.
- ALL BOLTS AND WOOD FASTENERS PERMANENTLY EXPOSED TO THE ATMOSPHERE SHALL BE HOT DIP GALVANIZED.
- DESIGN CONNECTIONS IN ACCORDANCE WITH CSA-086 AND CSA-S16 FOR THE LOADS INDICATED ON THE DRAWINGS.
- PROVIDED A MINIMUM OF 2 BOLTS IN BOLTED CONNECTIONS.
- INSTALL SILL GASKET UNDER THE ALL SILL PLATES IN CONTACT WITH CONCRETE.
- RETREAT ALL CUT ENDS OF PRESSURE TREATED LUMBER WHICH REQUIRE ON-SITE CUTTING.

## PREFABRICATED WOOD TRUSSES

- MANUFACTURER SHALL BE RESPONSIBLE FOR USING LUMBER OF SUFFICIENT STRENGTH TO SAFELY CARRY ALL LOADS INDICATED ON THE DRAWINGS. PROVIDE ALL NECESSARY BLOCKING, BRACING, STIFFENERS AND CONNECTIONS IN ACCORDANCE WITH CSA-086.
- ALL STRUCTURAL COMPOSITE LUMBER SHALL BE DESIGNED IN ACCORDANCE WITH CSA-086.
- CONTRACTOR TO ENSURE TRUSS LOCATIONS ARE COORDINATED WITH ROOF PENETRATIONS, SEE ARCH. AND MECH. DRAWINGS

## STEEL GRADES

TO BE READ IN CONJUNCTION WITH STRUCTURAL STEEL DESIGN NOTES	
MEMBER TYPE	GRADE
ROLLED W-SHAPES, TEES	CSA G40.21 350W OR ASTM A992 GRADE 50
WELDED WIDE FLANGE SECTIONS	CSA G40.21 350W
HOLLOW STRUCTURAL SECTIONS	CSA G40.21 350W CLASS C
OTHER STRUCTURAL SHAPES AND PLATES	CSA G40.21 300W
BOLTS STEEL TO STEEL	ASTM A325
BOLTS STEEL TO WOOD	ASTM A307

## FORCE MODIFICATION FACTORS

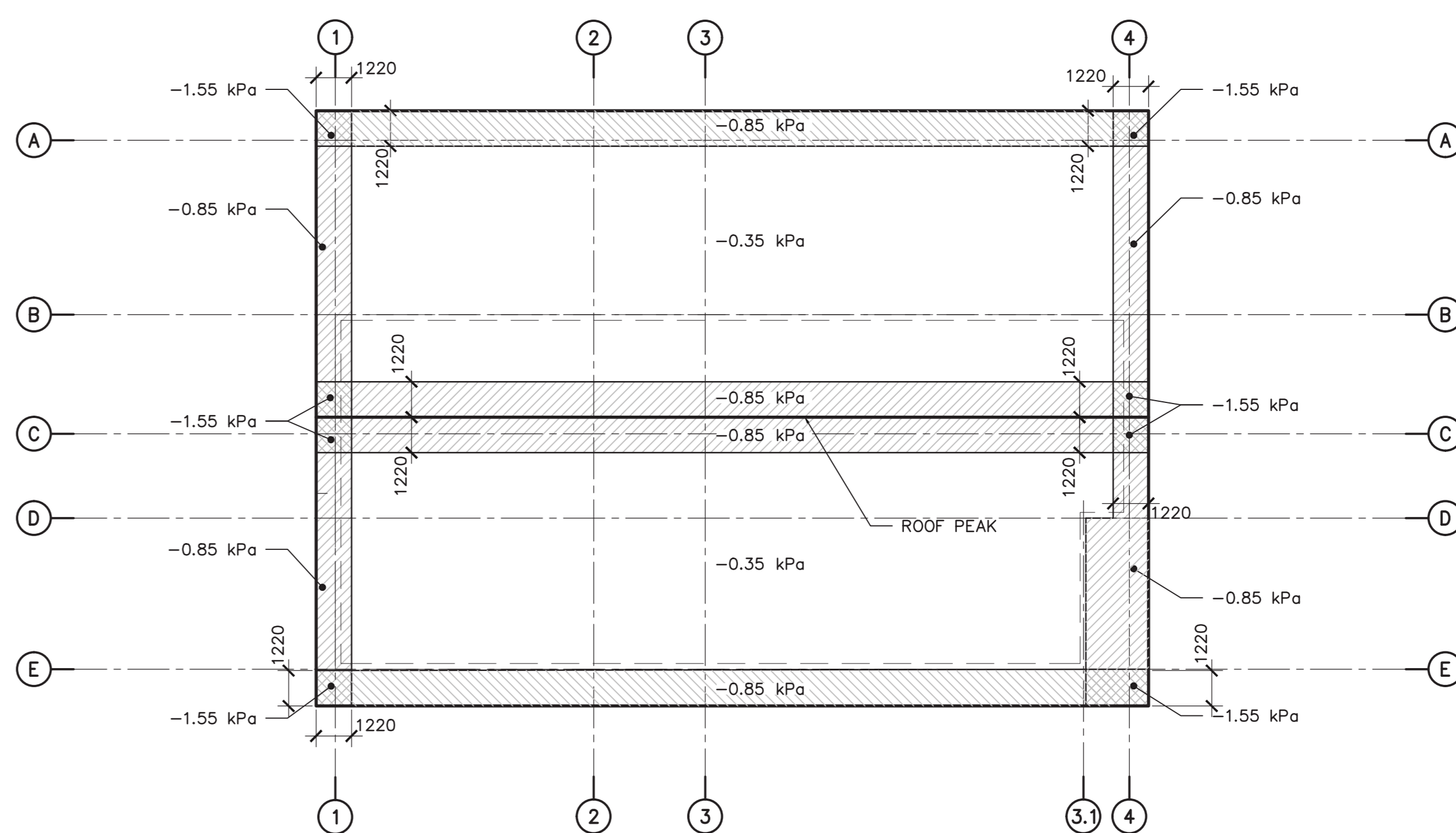
TO BE READ IN CONJUNCTION WITH DESIGN LOADS DESIGN NOTES		
LATERAL LOAD RESISTANCE SYSTEM	MODIFICATION FACTOR	
	DUCTILITY RELATED, RD	OVERSTRENGTH RELATED, RO
TIMBER SHEAR WALLS	3.0	1.7

## STANDARD END HOOKS

TO BE READ IN CONJUNCTION WITH CONCRETE REINFORCEMENT DESIGN NOTES								
BAR SIZE	10M	15M	20M	25M	30M	35M	45M	55M
90 HOOK LENGTH	180	260	310	400	510	640	790	1020
180 HOOK LENGTH	140	180	210	280	390	550	670	860

## TIMBER GRADES

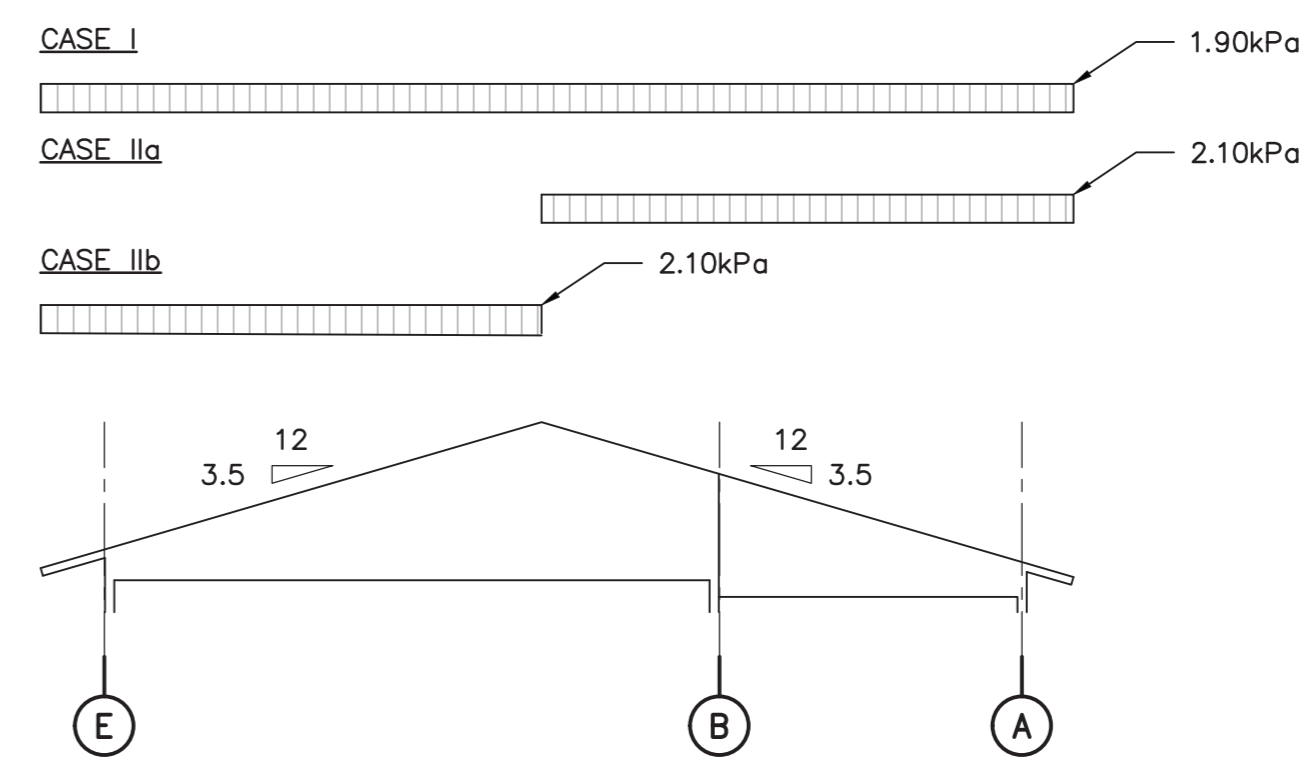
TO BE READ IN CONJUNCTION WITH TIMBER FRAMING DESIGN NOTES	
MEMBER TYPE	GRADE
SHEATHING	
ROOFS	CANADIAN SOFTWOOD PLYWOOD TONGUE AND GROOVE, 16 mm THICKNESS, EXTERIOR GRADE, MIN. MARKING OF 2R24
CEILING-EXPOSED	CANADIAN SOFTWOOD PLYWOOD TONGUE AND GROOVE G15, 18 mm THICKNESS, EXTERIOR GRADE, MIN. MARKING OF 2R24
CEILING COVERED	CANADIAN SOFTWOOD PLYWOOD, 16 mm THICKNESS, EXTERIOR GRADE, MIN. MARKING OF 2R24
WALLS	CANADIAN SOFTWOOD PLYWOOD PWF, 12.5/16mm THICKNESS, EXTERIOR GRADE, MIN. MARKING OF W16
SAWN LUMBER	
WALL FRAMING	S-P-F NO. 1/NO. 2 GRADE
COLUMNS	S-P-F NO. 1 GRADE
BEAMS	S-P-F NO. 1 GRADE
STRUCTURAL COMPOSITE LUMBER	
BEAMS	LAMINATED VENEER LUMBER 2.0E, ACCEPTABLE PRODUCT MICROLAM LVL 2.0E-APPROVED ALTERNATIVES OF ENGINEERED WOOD MAY BE ACCEPTED
COLUMNS	PARALLEL STRAND LUMBER 1.8E, ACCEPTABLE PRODUCT PARALLAM 1.8E-APPROVED ALTERNATIVES OF ENGINEERED WOOD MAY BE ACCEPTED



NOTE:  
1. UPLIFT THE SCHEDULE, SEE NOTES BELOW THE SCHEDULE FOR DOUBLE TIES

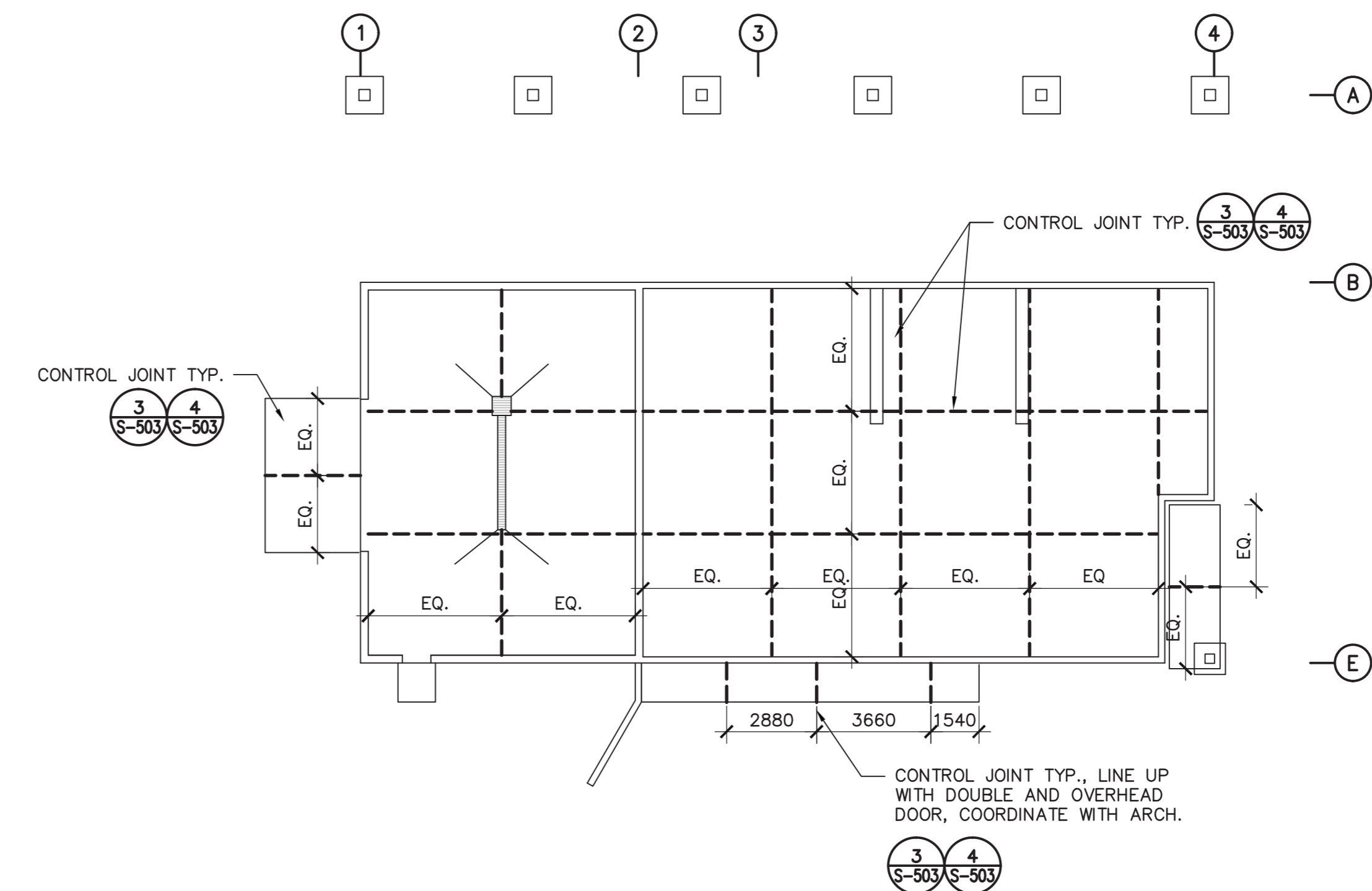
1. ROOF NET FACTORED WIND UP-LIFT DIAGRAM

SCALE: NT



2. SNOWDRIFT UNFACTORED DIAGRAM

SCALE: NT



3. CONTROL JOINT DIAGRAM

SCALE: NT

## CONTROLLED CONCRETE

TO BE READ IN CONJUNCTION WITH CAST-IN-PLACE REINFORCED CONCRETE DESIGN NOTES							
CONCRETE ELEMENT	CLASS OF EXPOSURE	MINIMUM COMPRESSIVE STRENGTH AT 28 DAYS (MPa)	MINIMUM COMPRESSIVE STRENGTH AT 56 DAYS (MPa)	MAXIMUM AGGREGATE SIZE (mm)	AIR CONTENT CATEGORY	W/C RATIO	CEMENT TYPE
FOOTINGS/FOUNDATION WALL	F-1	32	N/A	20	1	0.50	GU
SLABS ON GRADE	C-2	32	N/A	20	1	0.50	GU
RETAINING WALL	F-1	32	N/A	20	1	0.50	GU
APRON	C-2	32	N/A	20	1	0.50	GU
HOUSEKEEPING PADS	N	25	—	20	—	—	GU

## CLIMATIC INFORMATION

TO BE READ IN CONJUNCTION WITH DESIGN LOADS DESIGN NOTES	
SNOW LOAD (1/50), Ss	2.2 kPa
SNOW LOAD (1/50), Sr	0.1 kPa
HOURLY WIND PRESSURE (1/10)	0.26 kPa
HOURLY WIND PRESSURE (1/50)	0.34 kPa
SEISMIC RESPONSE, Ss(0.2)	0.973
SEISMIC RESPONSE, Ss(0.5)	0.691
SEISMIC RESPONSE, Ss(1.0)	0.398
SEISMIC RESPONSE, Ss(2.0)	0.193
SEISMIC RESPONSE, Ss(5.0)	0.066
SEISMIC RESPONSE, Ss(10.0)	0.022
SEISMIC RESPONSE, PGA	0.154
SEISMIC RESPONSE, PGV	0.184

## SITE INFORMATION

TO BE READ IN CONJUNCTION WITH DESIGN LOADS DESIGN NOTES	
IMPORTANCE CATEGORY	NORMAL
WIND EXPOSURE TYPE	OPEN TERRAIN
INTERNAL PRESSURE COEFFICIENT Cpi	-0.45 to +0.30
FOUNDATION SITE CLASS	D
SPREAD FOOTING FACTORED BEARING CAPACITY (ULS/SL5)	195/860 MPa
STRIP FOOTING FACTORED BEARING CAPACITY (ULS/SL5)	130/750 MPa

## DESIGN LOADS

TO BE READ IN CONJUNCTION WITH DESIGN LOADS DESIGN NOTES	
MAIN FLOOR	
SUPERIMPOSED DEAD LOAD	2.0 kPa
LIVE LOAD GL B-F/2-4	4.8 kPa
LIVE LOAD GL B-F/1-2	12.0 kPa
ROOF	
SUPERIMPOSED DEAD LOAD	1.5 kPa
BASIC SNOW LOAD	1.90 kPa
ACCUMULATED SNOW LOAD	REFER TO 3/S-001
NET FACTORED WIND UPLIFT LOAD	REFER TO 2/S-001

## CLEAR CONCRETE COVER TO REINFORCEMENT

TO BE READ IN CONJUNCTION WITH CONCRETE REINFORCEMENT DESIGN NOTES				
EXPOSURE CONDITION	N	EXPOSURE CLASS		
		F-1, F-2, S-1, S-2, S-3	C-XL, C-1, C-2, C-3, A-1, A-2, A-3	
CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH	—	75 mm	75 mm	
BEAMS, GIRDERS, COLUMNS, AND PILES TO TIES/STIRRUPS (EXCEPT AS NOTED BELOW)	30 mm	40 mm	60 mm	
SLABS, WALLS, JOISTS, SHELLS, AND FOLDED PLATES (EXCEPT AS NOTED BELOW)	20 mm	40 mm	60 mm	
PARKADE SUSPENDED SLAB				
TOP BARS	—	—	45 mm	
BOTTOM BARS	—	—	30 mm	
PARKADE SLABS ON GRADE AND STRUCTURAL SLABS AT GRADE				
TOP BARS	—	—	55 mm	
BOTTOM BARS	—	—	40 mm	
PARKADE BEAMS (TO STIRRUPS)				
TOP BARS	—	—	40 mm	
RATIO OF COVER TO NOMINAL BAR DIAMETER	1.0	1.5	2.0	
RATIO OF COVER TO NOMINAL MAXIMUM AGGREGATE SIZE	1.0	1.5	2.0	

## NOTE

THE LARGEST COVER REQUIRED FOR ANY ONE ELEMENT SHALL GOVERN.

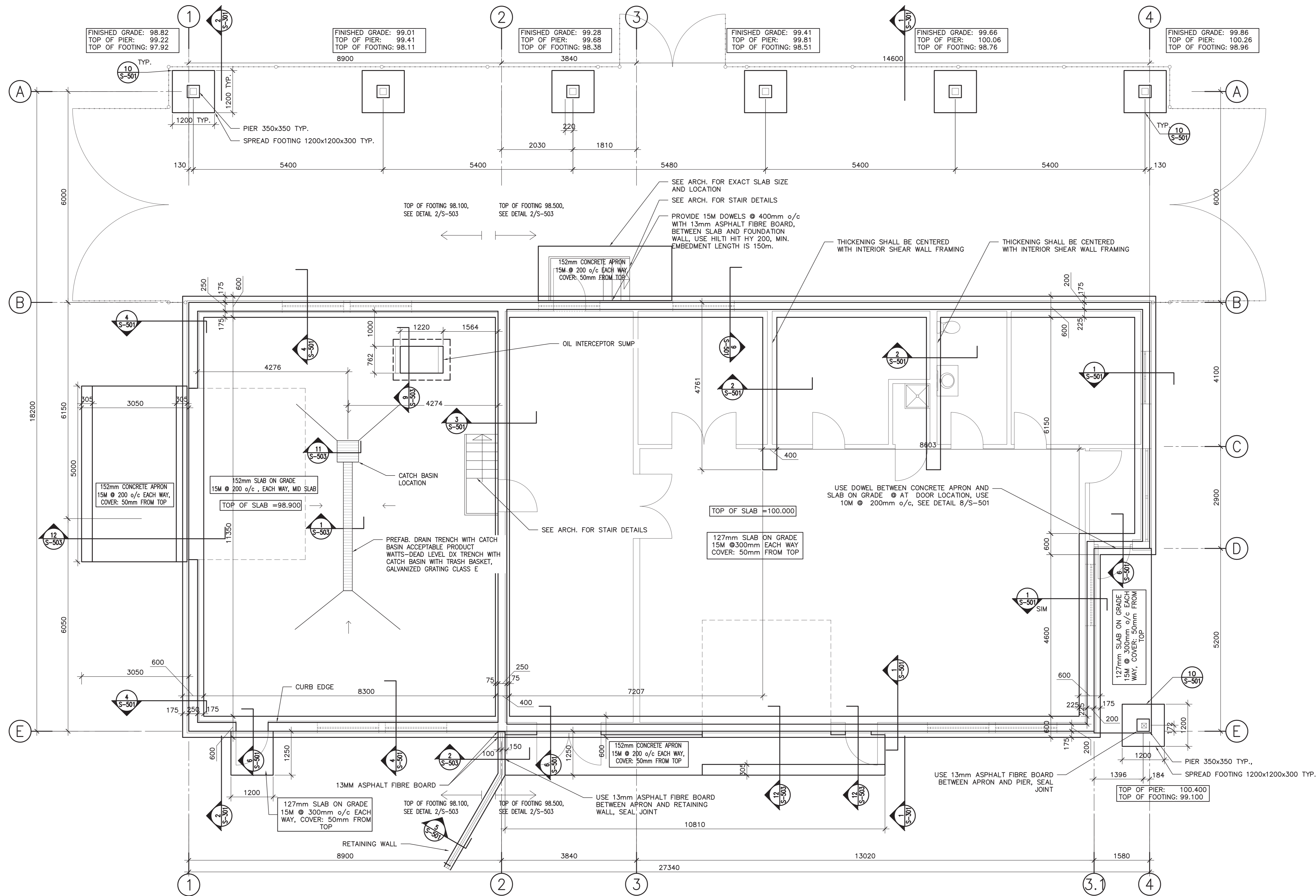
## REINFORCEMENT SPLICES

TO BE READ IN CONJUNCTION WITH CONCRETE REINFORCEMENT DESIGN NOTES				
BAR SIZE	COMPRESSION SPLICE (mm)	TENSION SPLICE (mm)		
		VERTICAL OR BOTTOM HORIZONTAL BARS	TOP HORIZONTAL BARS	EPOXY COATED BARS
10M	300	400	600	500
15M	450	550	850	750
20M	600	700	1000	900
25M	750	1100	1650	1400
30M	900	1300	1950	1700
35M	1025	1550	2300	2000

NOTE 1: THIS TABLE IS BASED ON NORMAL WEIGHT CONCRETE  $f'_c = 35$  MPa AND ON REINFORCING STEEL  $f_y = 400$  MPa.

NOTE 2: TOP HORIZONTAL BARS ARE DEFINED AS HORIZONTAL REINFORCEMENT PLACED SUCH THAT MORE THAN 300 mm OF CONCRETE IS CAST IN THE MEMBER BELOW THE REINFORCEMENT.

NOTE 3: FOR STANDARD EMBEDMENT DEPTH INTO CONCRETE, DIVIDE BASIC TENSION LAP SPLICE NUMBERS BY 1.3.



NOTE:  
1. OPENING LOCATION COORDINATE WITH ARCH. AND MECH. DRAWINGS.  
2. FOR SLAB ON GRADE GL 1-2/B-E COORDINATE FLOOR DRAIN LOCATION WITH MECH. AND ARCH. DRAWINGS.  
MIN. SLAB THICKENS OF SLOPED SLAB SHALL NOT BE LESS THAN SPECIFIED. USE MIN. SLOPE 1.0%.  
3. PROVIDE HOUSEKEEPING PAD FOR OTHER TRADES AS INDICATED ON THE MECHANICAL AND ELECTRICAL DRAWINGS. SEE TYPICAL DETAIL ON S-501.  
4. COORDINATE AL SLAB-ON-GRADE AND FOUNDATION WALL PENETRATION WITH OTHER TRADES AS SHOWN ON ARCH., MECH. AND ELECTRICAL DRAWINGS.

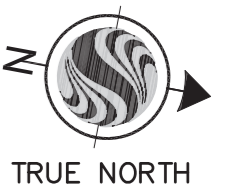
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SCALE: 1:50



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PERMIT TO PRACTICE  
Signature: *Michael A. White*  
Name: Michael A. White  
Permit Number: PP315  
Association of Professional Engineers  
of Yukon  
14190 2625



TRUE NORTH



BUILDING NORTH

0	ISSUED FOR TENDER	18.03.21
Revision/	Description/Description	Date/Date

Client/Client

PARKS CANADA  
HAINES JUNCTION, Y.T.

Project title/Titre du projet

TRADES BUILDING  
KLUANE PARK  
HEAD QUARTERS

Consultant Approval: Box Only

Designed by/Concept par

MJW

Drawn by/Dessiné par

PP

PWSGC Project Manager/Administrateur de Projets TPSCG

STEPHANE CLAVEL

PWSGC Regional Manager, Architectural and Engineering Services/  
Gestionnaire régional, Services d'architecture et de génie, TPSCG

PREETIPAL PAUL

Drawing title/Titre du dessin

FOUNDATION PLAN

Project No./No. du projet	Sheet/Feuille	Revision no./ La Révision No.
R.075647.001	S-101	0

2 OF 7



TRUE NORTH



BUILDING NORTH

8	ISSUED FOR TENDER	18/03/21
Revision/Revisé	Description/Description	Date/Date

Client/Client

PARKS CANADA  
HAINES JUNCTION, Y.T.

Project Title/Titre du projet

TRADES BUILDING  
KLUANE PARK  
HEAD QUARTERS

Consultant Approval Box Only

Designed by/Concept par  
KJW

Drawn by/Dessiné par  
PP

PWSC Project Manager/Administrateur de Projets TPSC  
STEPHANE CLAVEL

PWSC Regional Manager, Architectural and Engineering Services/  
Services d'architecture et de génie, TPSC  
PREETIPAL PAUL

Drawing Title/Titre du dessin

ROOF PLAN

Project No./No. du projet

R.075647.001

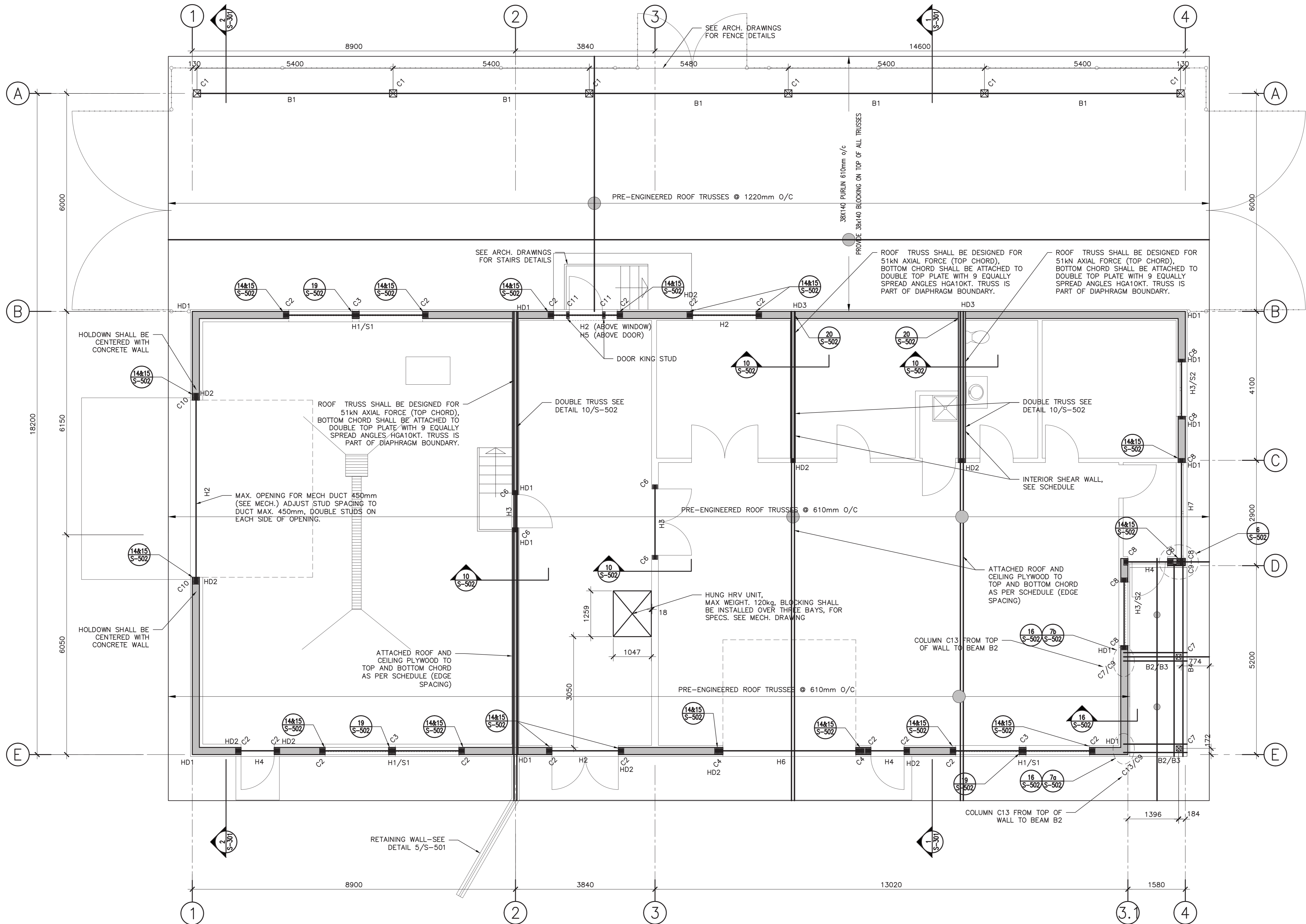
Sheet/Feuille

S-102

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Revision no./  
La Révision  
no.

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- NOTE:
- INSTALL CEILING PLYWOOD STRIP ON TOP THE OF WALL TOP PLATE BEFORE ROOF TRUSSES INSTALLATION, SEE DETAILS ON S-502
  - DEPTH OF RAFTER FOR ROOF ABOVE THE MAIN ENTRANCE GL E-F/4.1-4 SHALL MATCH DEPTH OF THE TOP CHORD OF THE ROOF TRUSS
  - ALL MECH. WALL PENETRATION SHALL BE WITHIN WALL STUD SPACING

ROOF / CEILING / WALL SCHEDULE			
ROOF / WALL LOCATION	STRUCTURE AND SPACING	SHEATHING	NAILS/SCREWS
ROOF GAL A-B/1-4	PRE-ENGINEERED ROOF TRUSSES @ 1220mm O/C + 38x140 PURLIN 610mm O/C	16mm PLYWOOD	2 1/2" @ 75mm O/C
ROOF GAL B-F/1-4	PRE-ENGINEERED ROOF TRUSSES @ 610mm O/C	16mm PLYWOOD	2 1/2" @ 75mm O/C
CEILING GAL B-F/1-4	PRE-ENGINEERED ROOF TRUSSES @ 610mm O/C	16mm PLYWOOD	2 1/2" @ 75mm O/C
EXTERIOR WALL GL 1	38x184 @ 406mm O/C	12.5mm PLYWOOD	2 1/2" @ 75mm O/C
EXTERIOR WALL GL 3.1	38x184 @ 406mm O/C	12.5mm PLYWOOD	3" @ 75mm O/C
EXTERIOR WALL GL 4	38x184 @ 406mm O/C	12.5mm PLYWOOD	2 1/2" @ 100mm O/C
EXTERIOR WALL GL B	38x184 @ 406mm O/C	12.5mm PLYWOOD	2 1/2" @ 75mm O/C
EXTERIOR WALL GL E	38x184 @ 406mm O/C	12.5mm PLYWOOD	2 1/2" @ 100mm O/C
INTERIOR WALL GAL 2	38x140 @ 610mm O/C	12.5mm PLYWOOD	2 1/2" @ 75mm O/C
INTERIOR WALLS AS SHOWN ON PLAN VIEW	38x89/140 @ 610mm O/C	12.5mm PLYWOOD	2 1/2" @ 75mm O/C

- NOTE:
- CEILING SHEATHING SHALL BE CONTINUOUS OVER ALL INTERIOR WALLS.
  - NAILING PATTERNS NOTED IN THE "WALL SHEATHING SCHEDULE" PERTAIN ONLY TO SHEATHING PANEL EDGES AND/OR GL2& TRUSSES ABOVE INTERIOR SHEAR WALLS FOR ROOF AND CEILING SHEATHING. THE INTERIOR OF THE SHEATHING PANELS MAY BE NAILED AT 300MM O/C. NAIL SIZE TO MATCH EDGE NAILS.
  - NAILED STRUCTURAL SHEATHING TO TOP AND BOTTOM CHORD WITH 3" @ 75mm o/c NAILS
  - THE MECH. OPENINGS SHALL BE ADEQUATELY REINFORCED WITH FRAMING MEMBERS AND FASTENERS (64mm LONG NAILS @ 50mm O/C) TO MAINTAIN SHEAR WALL AND DIAPHRAGM ACTION. LOCATION COORDINATE WITH MECH. DRAWINGS.

BEAM SCHEDULE	
LABEL	SIZE
B1	4 PLY 44x406 2.0e LVL
B2	140x203
B3	2 PLY 89x178
B4	2 PLY 102x305

- NOTE:
- ALL EXPOSED BEAMS SHALL BE PRESERVATIVE TREATED UNFINISHED.

HEADER SCHEDULE	
LABEL	SIZE
H1	4 PLY 44x302 2.0e LVL
H2	4 PLY 44x235 2.0e LVL
H3	3 PLY 38x140
H4	3 PLY 38x184
H5	3 PLY 38x184 (FLAT)
H6	4 PLY 44x356 2.0e LVL
H7	3 PLY 38x235

SILL PLATE SCHEDULE	
LABEL	SIZE
S1	2 PLY 38x184

COLUMN SCHEDULE			
LABEL	SIZE	# KING STUDS	# JACK STUDS
C1	178x178 1.8E PARALLEL STRAND LUMBER		
C2	4 PLY 38x184	2	2
C3	5 PLY 38x184	—	5
C4	6 PLY 38x184	2	4
C5	6 PLY 38x184	3	2/1
C6	3 PLY 38x140	2	1
C7	140x140	—	—
C8	3 PLY 38x184	2	1
C9	3 PLY 38x184	SEE DETAIL ON S-502	
C10	5 PLY 38x184	3	2
C11	2 PLY 38x184	2	—
C12	3 PLY 38x140	—	—
C13	89x89	—	—

- NOTE:
- FOR KING STUD SIZE SEE ALSO MIN. COLUMN SIZE FOR HOLDOWN INSTALLATION, IF NECESSARY INCREASE COLUMN SIZE ACCORDINGLY
  - ALL EXPOSED COLUMNS SHALL BE PRESERVATIVE TREATED UNFINISHED

HOLDOWN SCHEDULE		
LABEL	HOLDOWN	COLUMN (MIN. SIZE)
HD1	ACCEPTABLE PRODUCT SIMPSON STRONG-TIE HDUB-SDS2.5, USE 16mm ANCHOR BOLT, 20-SDS 1/4"x2 1/2"	2x38x184(140)
HD2	ACCEPTABLE PRODUCT SIMPSON STRONG-TIE HDUB-SDS2.5, USE 16mm ANCHOR BOLT, 20-SDS 1/4"x2 1/2"	3x38x184 (140/89)
HD3	ACCEPTABLE PRODUCT SIMPSON STRONG-TIE HDUB-SDS2.5, USE 16mm ANCHOR BOLT, 20-SDS 1/4"x2 1/2"	2x2x38x184, SEE DETAIL 20/S-502

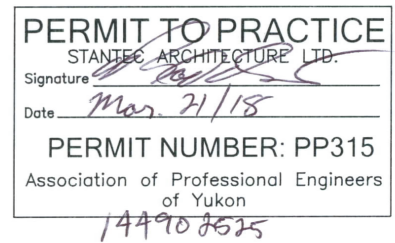
- NOTE:
- FOR ANCHOR BOLTS USE HILTI HY 200
  - MIN. EMBEDMENT LENGTH IS 300mm
  - APPROVED ALTERNATIVES OF HOLDOWN MAY BE ACCEPTED.

SILL PLATE ANCHOR BOLT SCHEDULE	
GRID LINE	ANCHOR BOLT SPECIFICATION
GL 1,3,1.4,B,D,E	ACCEPTABLE PRODUCT HILTI KWIK HUS-EZ (KH-EZ) 12mm (1/2") @ x 127mm (5") @ 610mm O/C
GL 2, INTERIOR SHEAR WALLS	ACCEPTABLE PRODUCT HILTI KWIK HUS-EZ (KH-EZ) 12mm (1/2") @ x 127mm (5") @ 812mm O/C

- NOTE:
- APPROVED ALTERNATIVES OF ANCHOR BOLT MAY BE ACCEPTED.
  - USE 406mm ANCHOR BOLT SPACING BY THE BUILDING CORNERS IN LENGTH OF 1600mm IN EACH DIRECTION.
  - ALWAYS INSTALLED ANCHOR BOLT AS CLOSE AS POSSIBLE TO THE END OF SHEAR WALL SEGMENT OR KING STUD.



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**TRADES BUILDING  
KLUANE PARK  
HEAD QUARTERS**

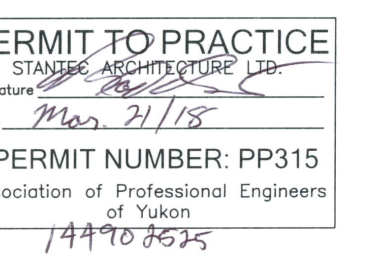
## SECTIONS

Project No./No. du projet	Sheet/Feuille	Revision n° / La Révision no.
<b>R.075647.001</b>	<b>S-301</b>	<b>0</b>



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Revision/ Revision	Description/Description	Date/
Client/client		

**PARKS CANADA**  
**HAINES JUNCTION, Y.T.**

**TRADES BUILDING  
KLUANE PARK  
HEAD QUARTERS**

Drawing title/Titre

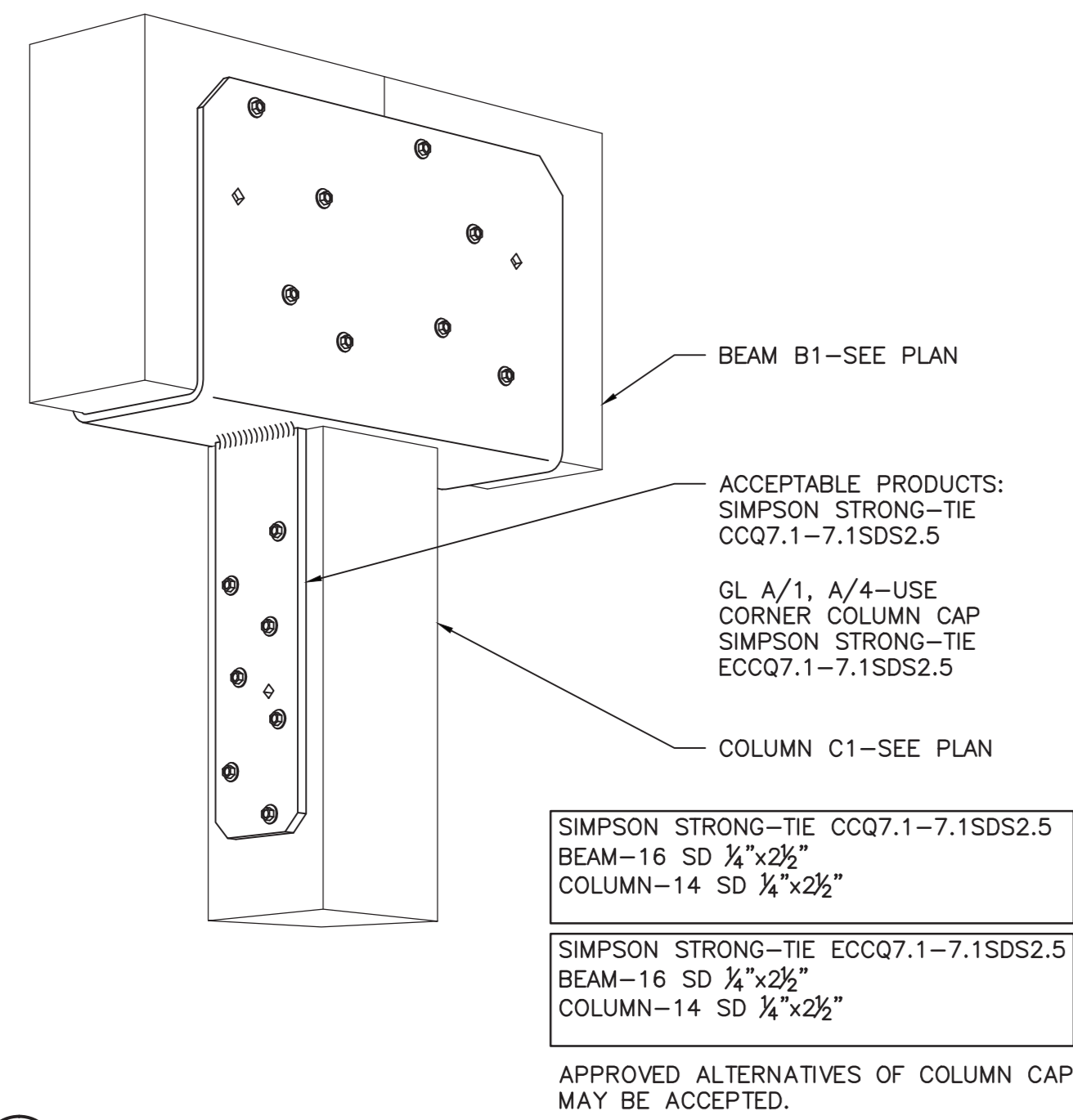
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6-501	0
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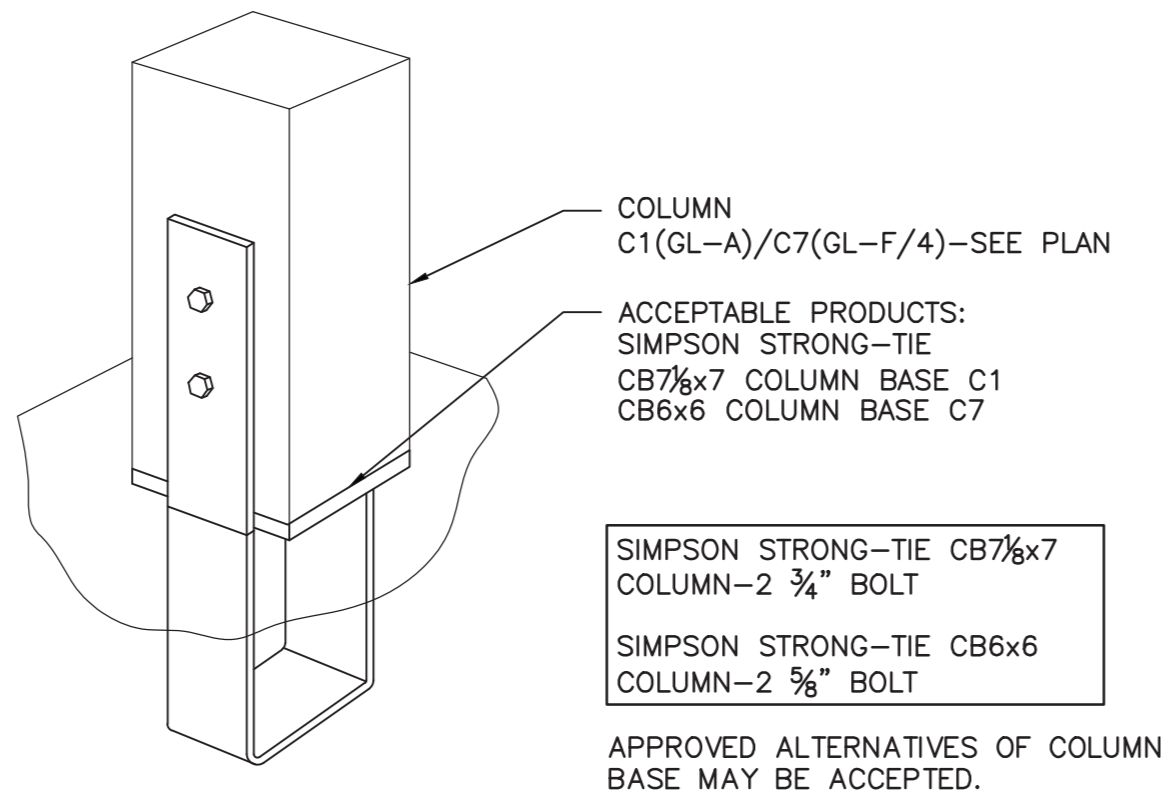


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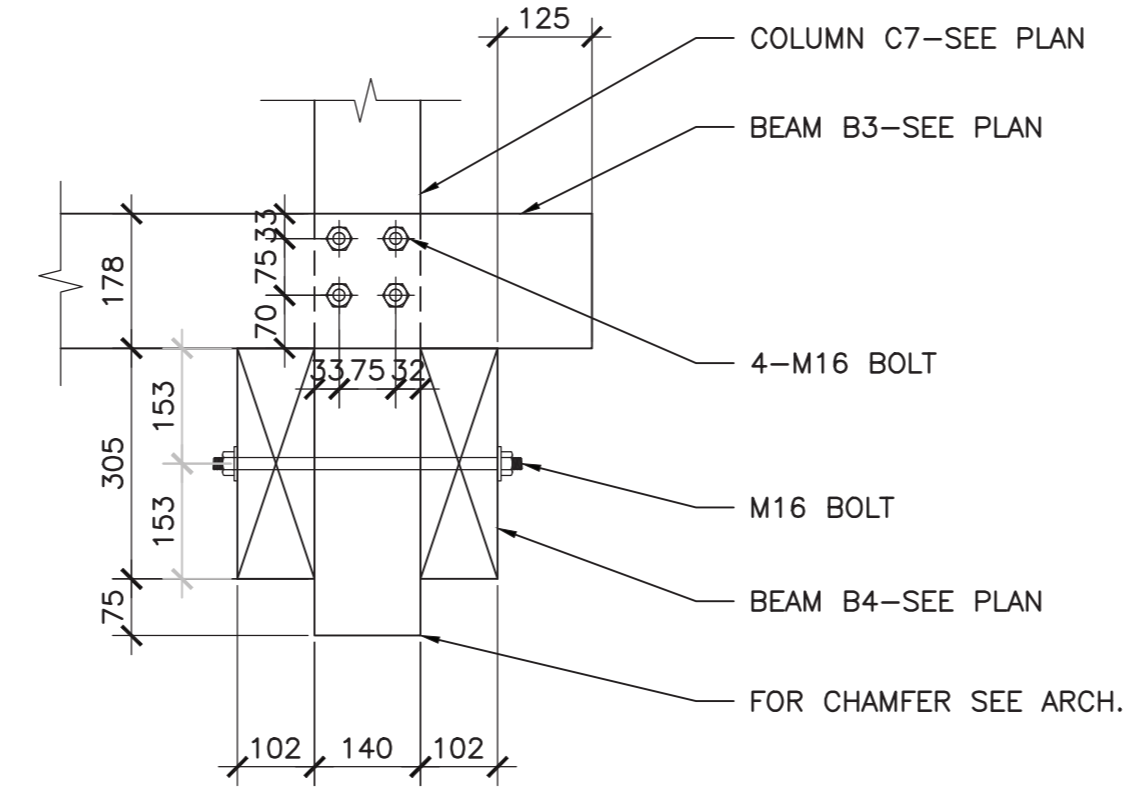
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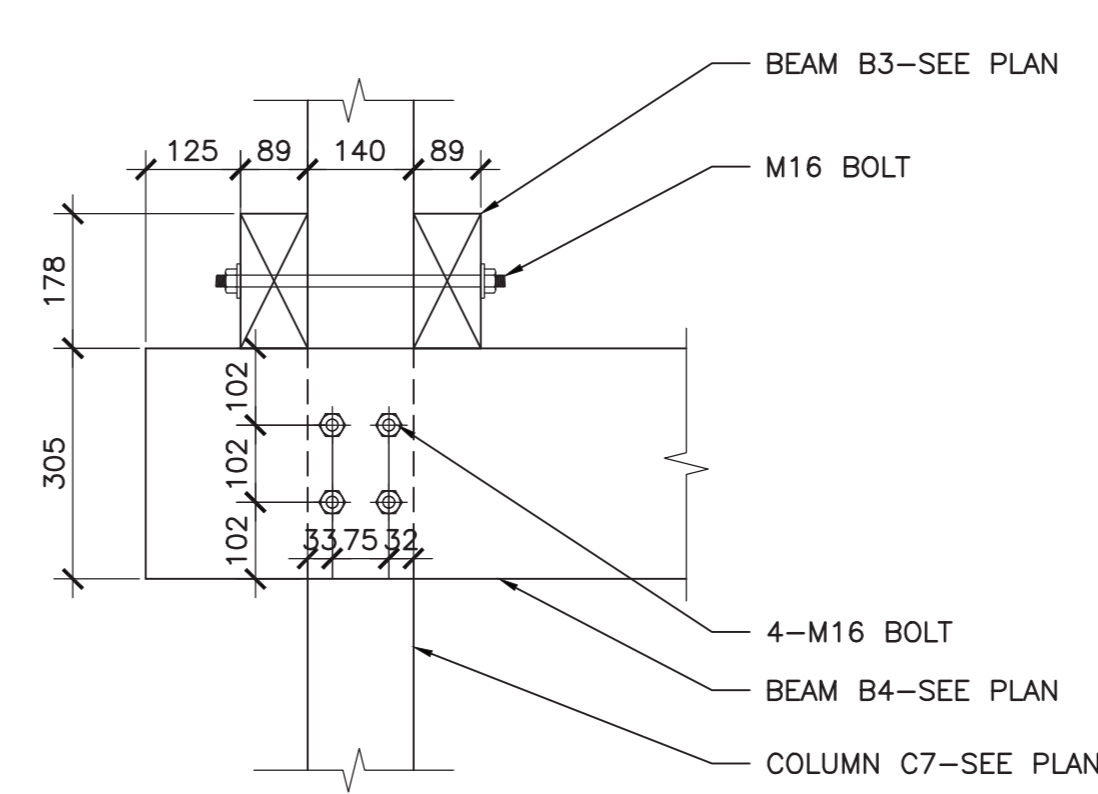
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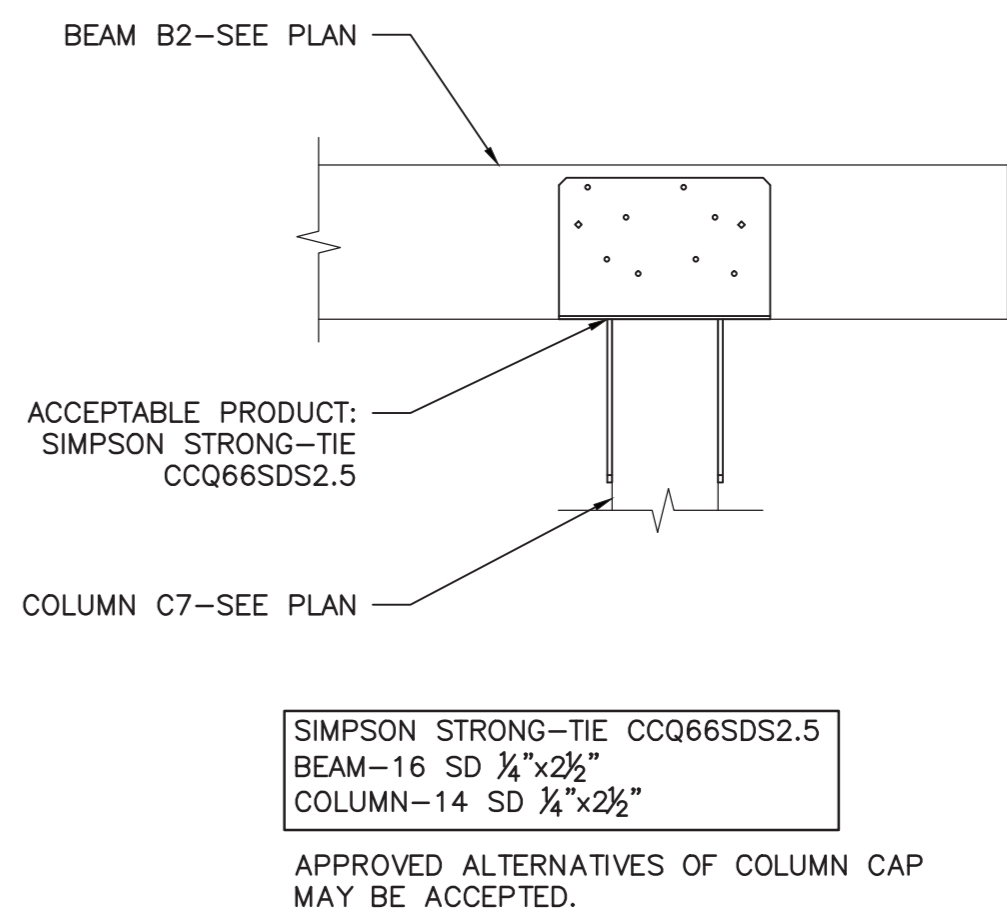
2 TYPICAL COLUMN C1 BASE CONNECTION  
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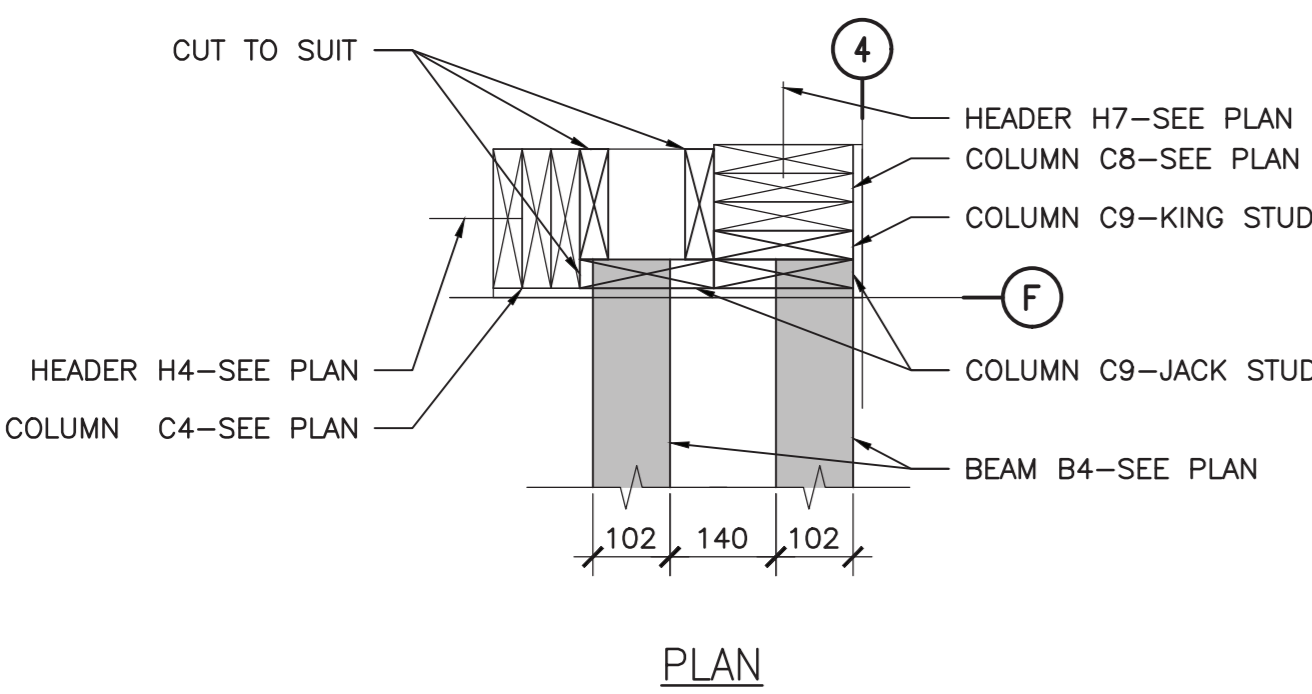
3 WOOD MEMBER CONNECTION DETAIL  
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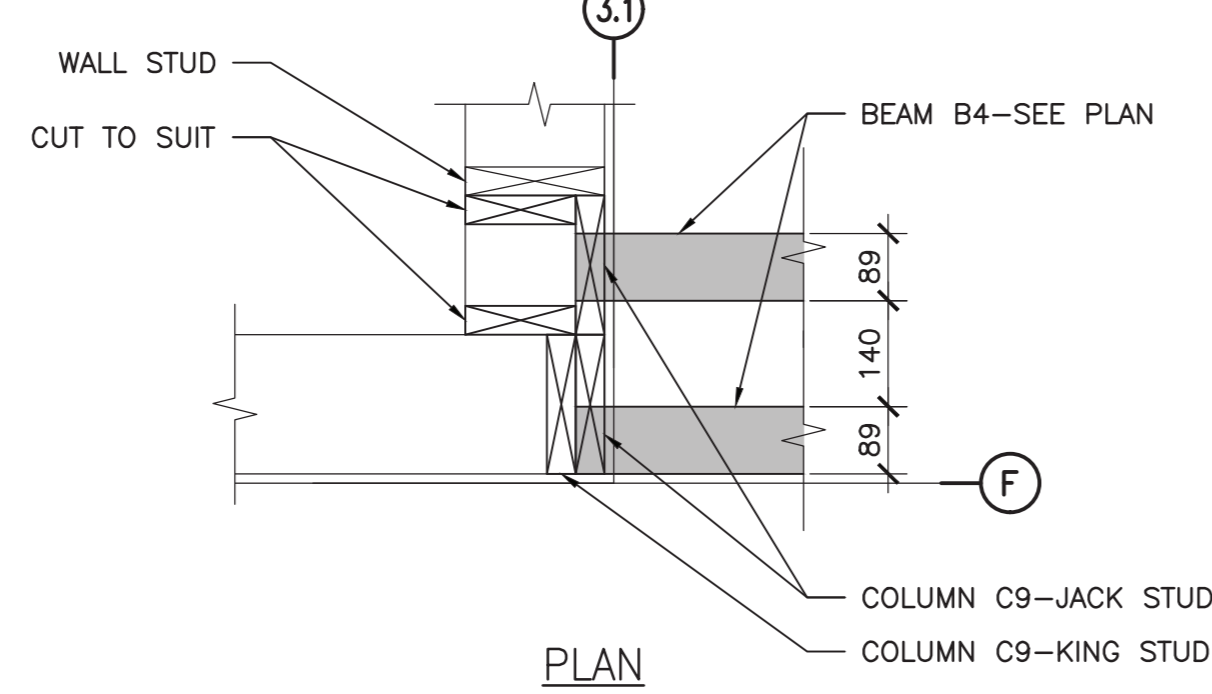
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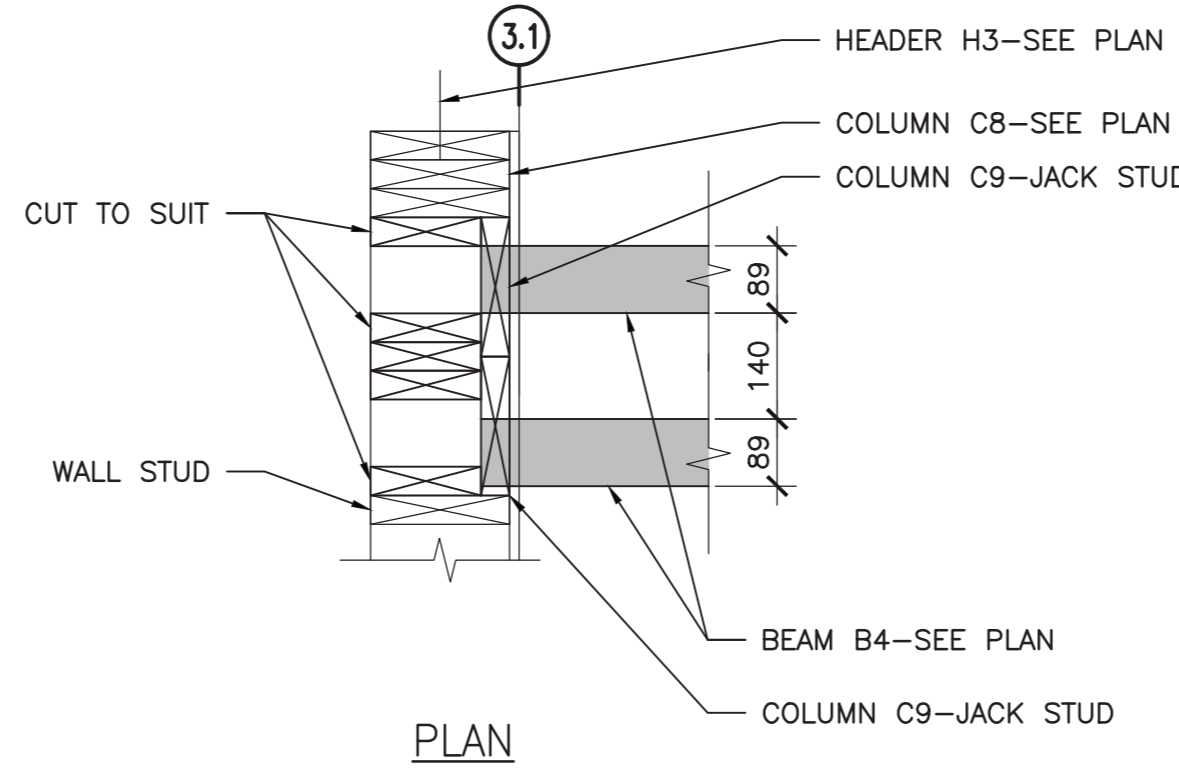
5 WOOD MEMBER CONNECTION DETAIL  
SCALE: 1:10



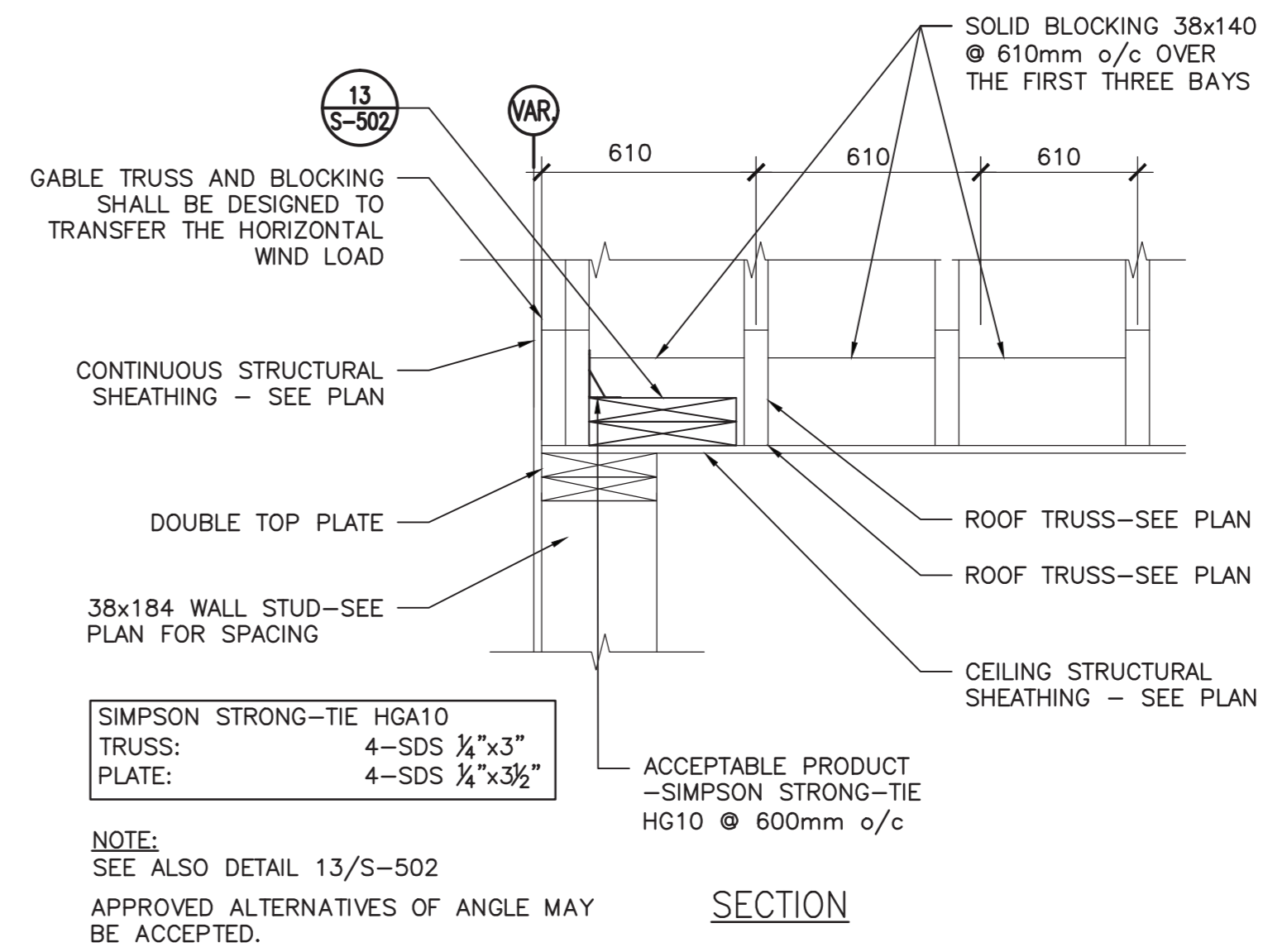
6 WOOD MEMBER CONNECTION DETAIL  
SCALE: 1:10



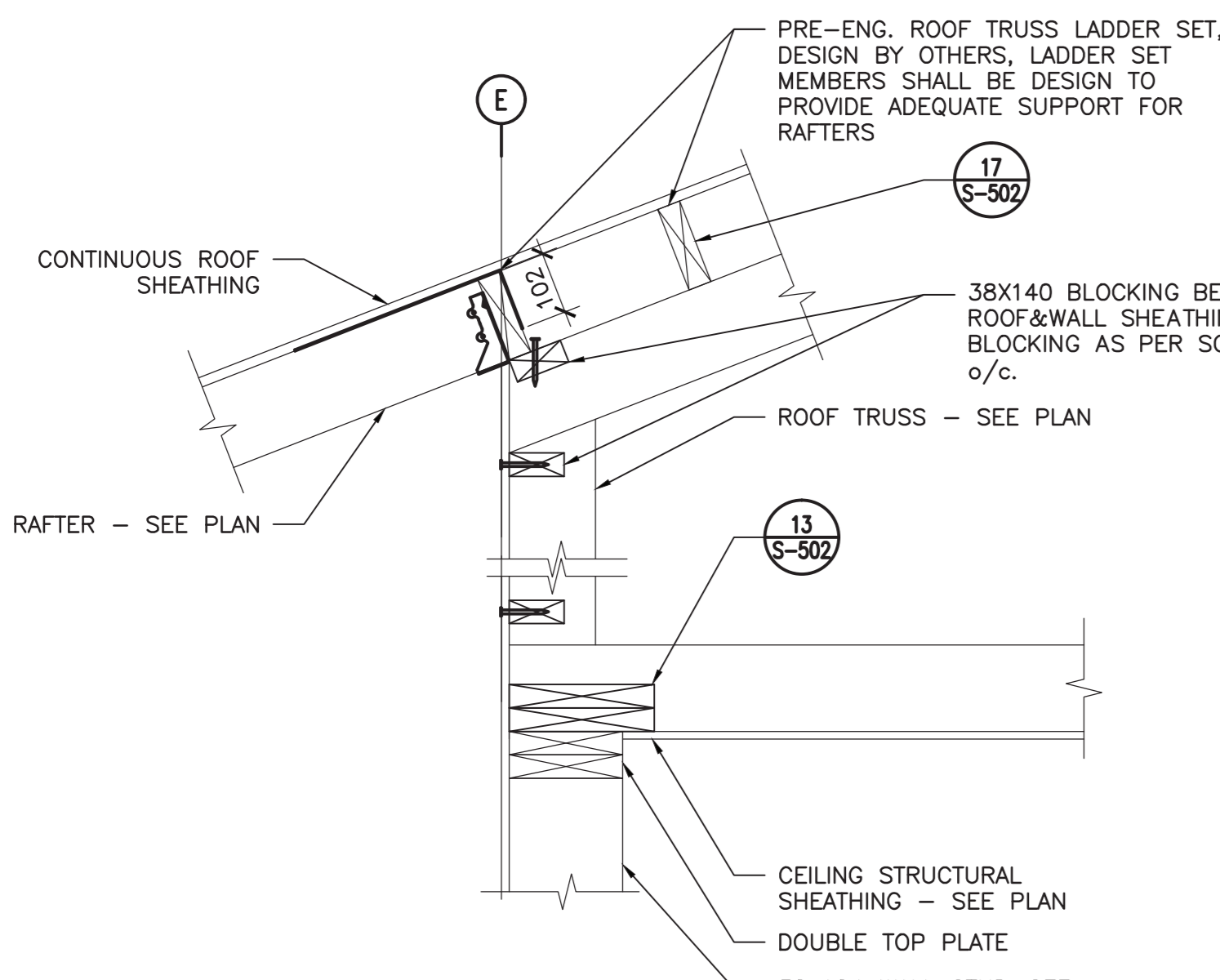
7 WOOD MEMBER CONNECTION DETAIL  
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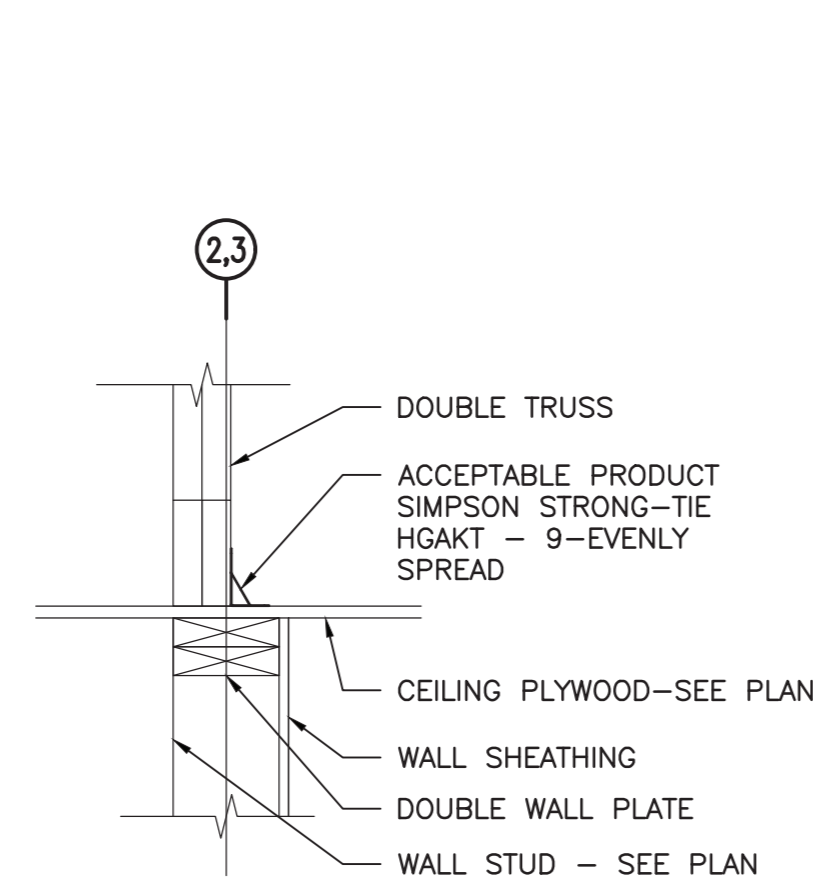
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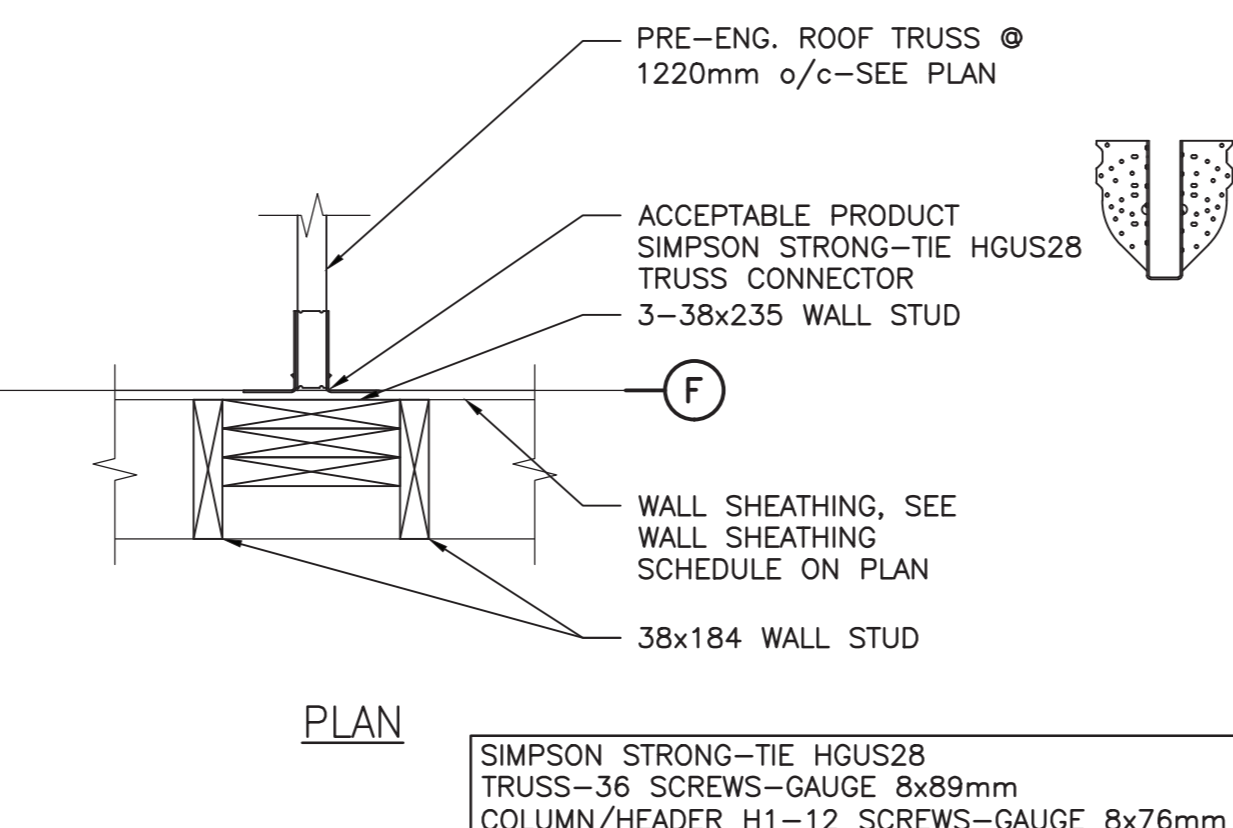
9 GABLE WALL GL1, 4 FRAMING DETAIL  
SCALE: NT



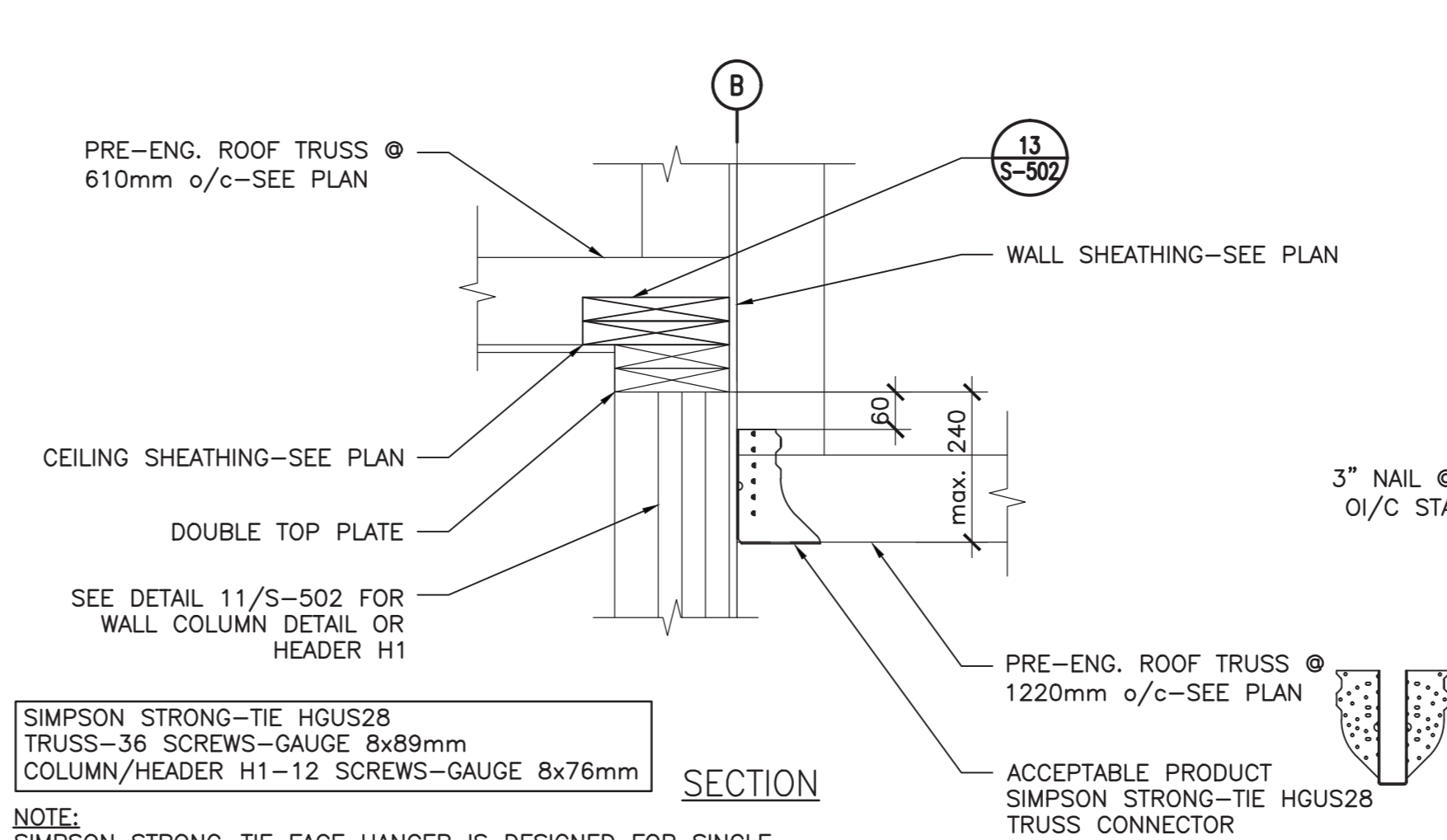
13 TYPICAL ROOF RAFTER CONNECTION DETAIL @ GL E  
SCALE: NT



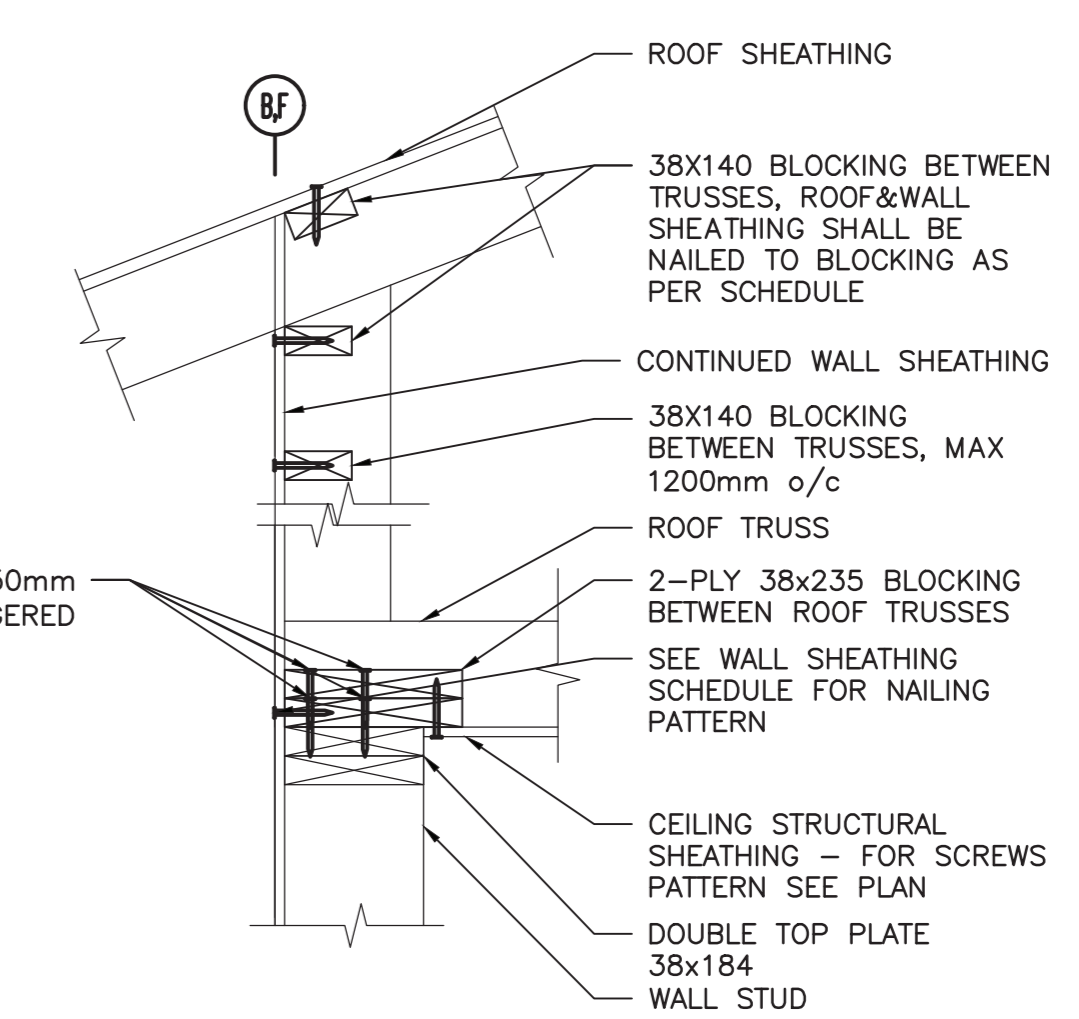
10 ROOF TRUSSES/TOP OF WALL DETAIL GL2,3  
SCALE: NT



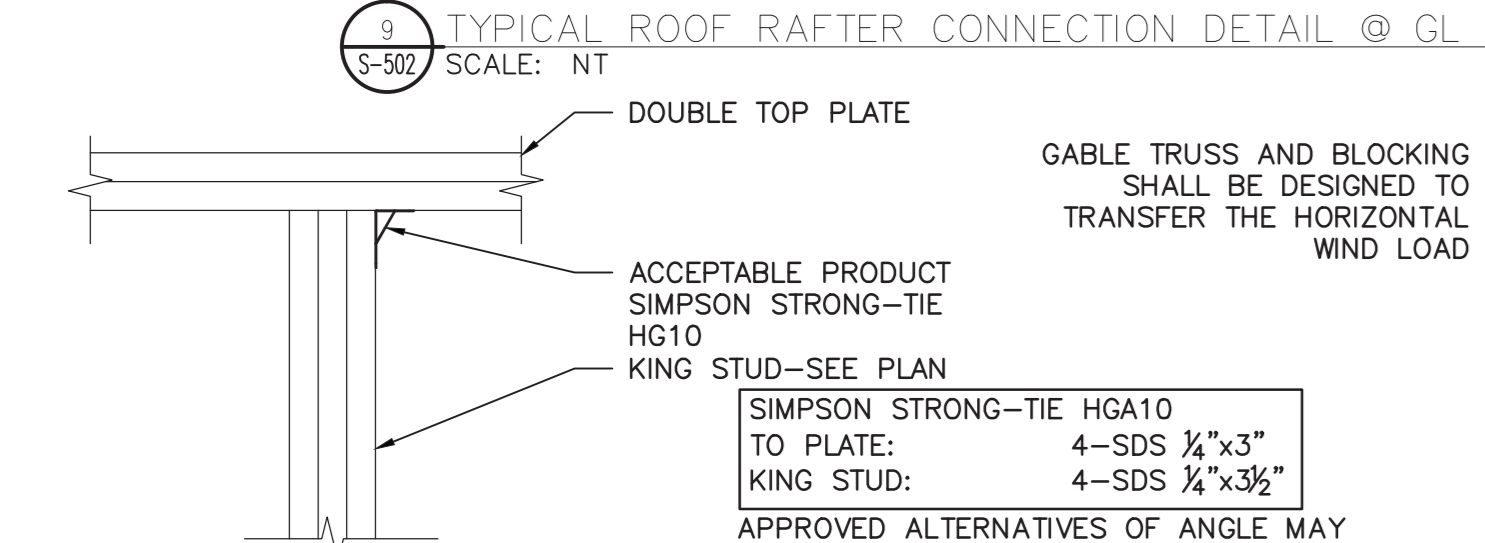
11 ROOF TRUSS GL B CONNECTION DETAIL  
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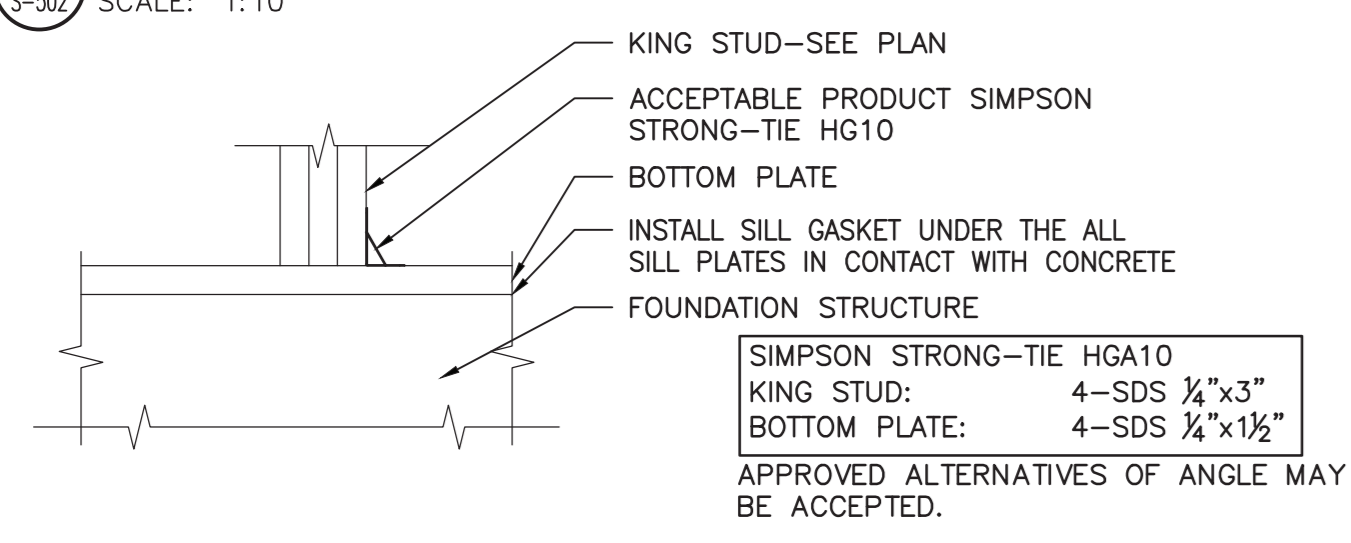
12 ROOF TRUSS GL B CONNECTION DETAIL  
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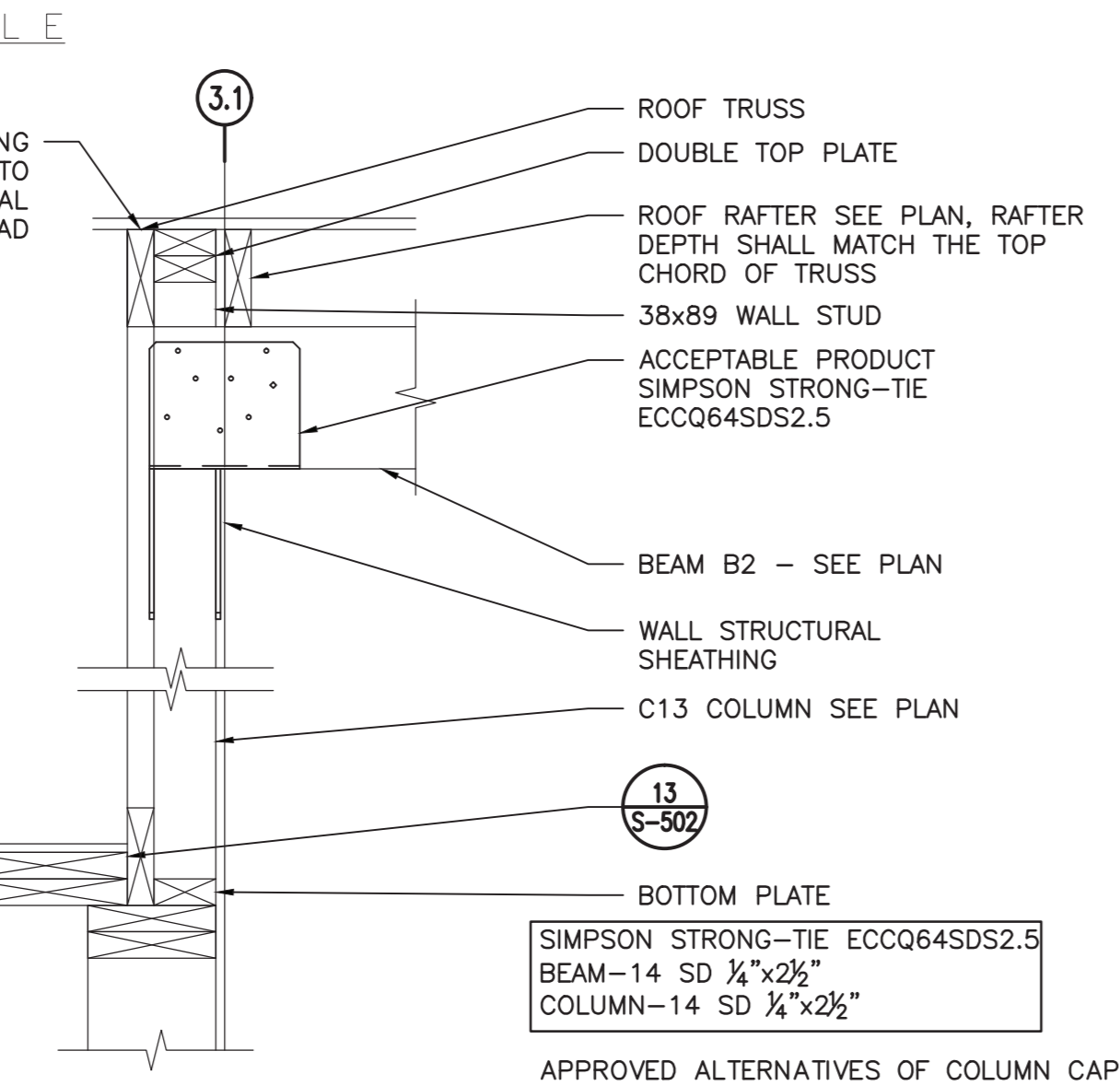
13 ROOF TRUSS BLOCKING CONNECTION DETAIL  
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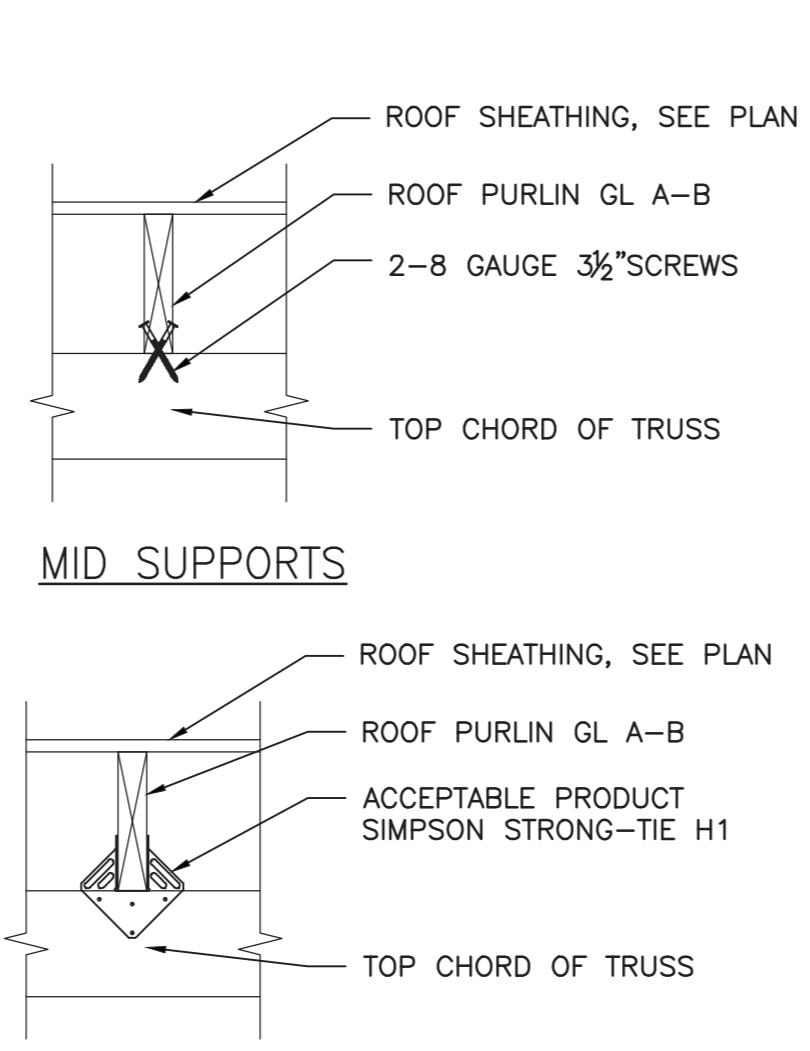
14 KING STUD TO TOP PLATE CONNECTION DETAIL  
SCALE: 1:10



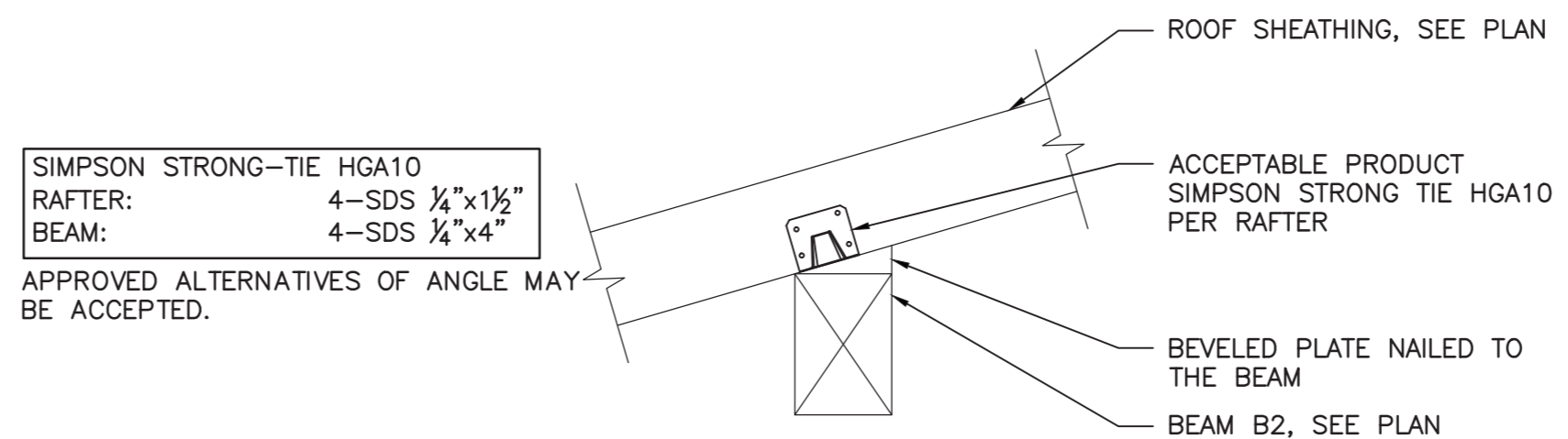
15 KING STUD TO BOTTOM PLATE CONNECTION DETAIL  
SCALE: 1:10



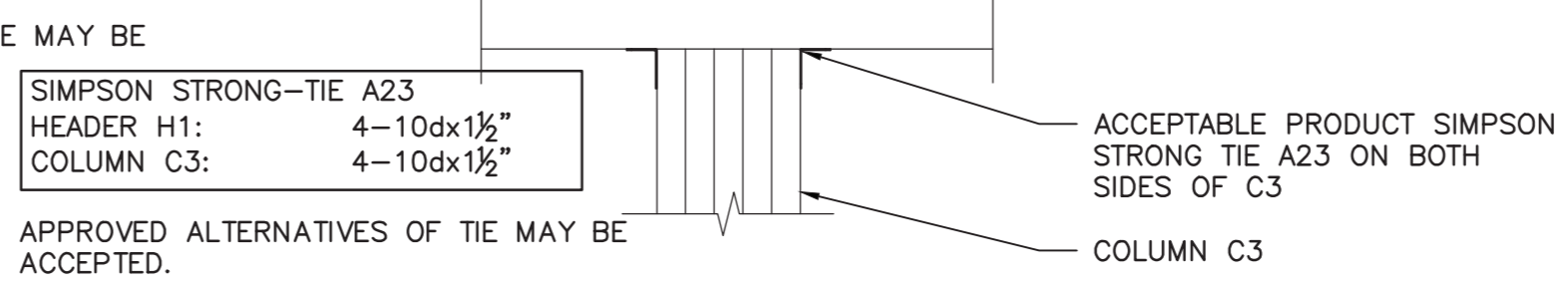
16 GABLE WALL GL 3.1 FRAMING DETAIL  
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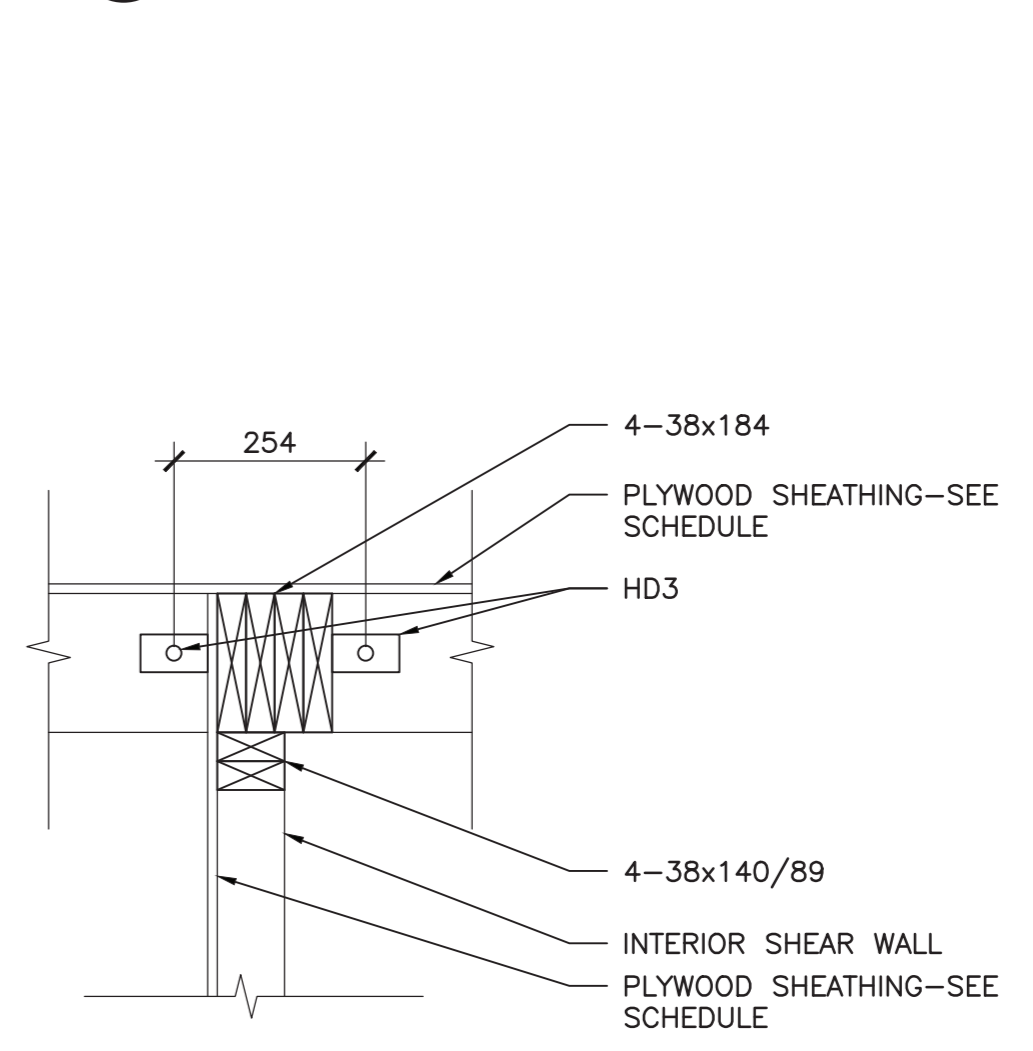
17 ROOF PURLIN TO TRUSS CONNECTION DETAIL  
SCALE: 1:10



18 RAFTER TO BEAM B2 CONNECTION DETAIL  
SCALE: 1:10



19 COLUMN C3 TO HEADER H1 CONNECTION DETAIL  
SCALE: 1:10



20 HOLDOWN CONFIGURATION DETAIL  
SCALE: 1:10



8	ISSUED FOR TENDER	18/03/21
9	REVISION	
Client/Client	Description/Description	Date/Date

PARKS CANADA  
HAINES JUNCTION, Y.T.

Project Title/Titre du projet

TRADES BUILDING  
KLUANE PARK  
HEAD QUARTERS

Consultant Approval Box Only

Designed by/Concept par  
**KW**  
Drawn by/Dessiné par  
**PP**  
PWOSC Project Manager/Administrateur de Projets TPSC  
**STEPHANE CLAVEL**  
PWOSC Regional Manager, Architectural and Engineering Services/  
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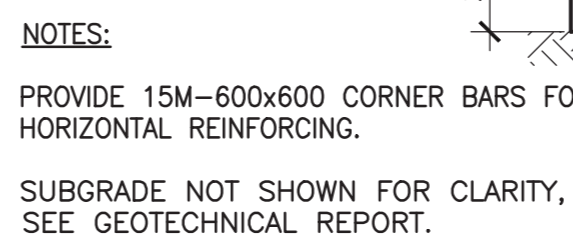
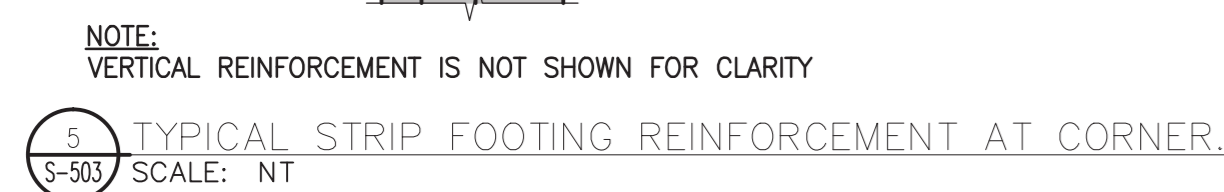
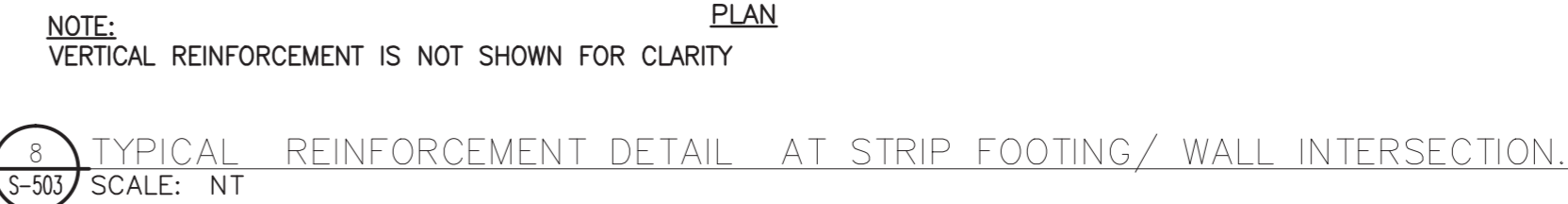
DETAILS

Project No./No. du projet  
**R.075647.001**  
Sheet/Feuille  
**S-502**  
Revision no./  
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**TRADES BUILDING  
KLUANE PARK  
HEAD QUARTERS**

## DETAILS

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CIVIL ABBREVIATIONS

ABBREVIATION	DESCRIPTION				
150mm T&S	150mm TOPSOIL AND SEED	ESD	EMERGENCY SHUTDOWN	PO	PUMP OUT
ABAN	ABANDONED	EXST / EX	EXISTING	PP	POWER POLE
BLDG	BUILDING	FD	FLOOR DRAIN	PREC	PRECAST
BOC	BACK OF CURB	FG	FINISHED GRADE	PT	PRIMED TRAP
BOT	BOTTOM	FIG	FIGURE	RAD	RADIUS
BOW	BACK OF WALK	RN	RINSH	R/L	RASE/LOWER
C&G	CURB AND GUTTER	FL	FLOOR	R/L/S	RASE/LOWER/STOP
CB	CATCHBASIN	FM	FORCEMAIN	RD	ROOF DRAIN
CBQ	CONTINUOUS BLOW	FOC	FACE OF CURB	RED	REDUCER
CHRD	CHECKED	FOW	FACE OF WALL	RT	RIGHT
CIP	CAST-IN-PLACE	FUT	FUTURE	R/W	RIGHT OF WAY
CL	CENTERLINE	GALV	GALVANIZED	SAN	SANITARY SEWER
CLF	CHAINLINK FENCE	GBC	GRANULAR BASE COURSE	SCH	SCHEDULE
CMS	CONCRETE MEDIAN SLAB	GF	GRANULAR FILL	SE	SOUTH EAST
CO	CLEAN OUT	GL	GAS LINE	SF	SILT FENCE
CONC	CONCRETE	HLI	HIGH LIQUID LEVEL	SHLD	SHOULDER
CONT	CONTINUOUS	HWL	HIGH WATER LEVEL	SPD	STANDARD PROCTOR DENSITY
CPLG	COURING	INSUL	INSULATED	SPEC	SPECIFICATION
CSP	CORRUGATED STEEL PIPE	INV	INVERT	STA	STATION
C/W	COMPLETE WITH	LLL	LOW LIQUID LEVEL	STD	STANDARD
DC	DRAIN CONNECTION	LOG	UP OF GUTTER	STM	STORM SEWER
DCB	DOUBLE CATCHBASIN	LPD	LOWPOINT DRAIN	STMH	STORM MANHOLE
DET	DETAIL	LWL	LOW WATER LEVEL	STRUCT	STRUCTURE
DIA	DIAMETER	MAX	MAXIMUM	S/W	SIDEWALK
DIG	DIGESTER	MECH	MECHANICAL	SW	SOUTH WEST
DR	DRAIN	MH	MANHOLE	SWL	SWALE
D/S	DOWN STREAM	MIN	MINIMUM	T&A	TO BE ABANDONED
DWLS	DOWELS	NC	NORMALLY CLOSED	T&C	TO BE CONFIRMED
DWG	DRAWING	NE	NORTH EAST	T&R	TO BE REMOVED
EB	EAST BOUND	NIC	NOT IN CONTRACT	TH	THICK
EF	EXHAUST FAN	NLL	NORMAL LIQUID LEVEL	T&C	TOP OF CONCRETE
EG	EXISTING GRADE	No	NUMBER	TOW	TOP OF WALL
EJ	EXPANSION JOINT	NTS	NOT TO SCALE	TYP	TYPICAL
EL ELEV	ELEVATION	NW	NORTH WEST	T/O	TOP OF
EB	ELEVATION	OC	ON CENTRE	UG	UNDERGROUND
ELECT	ELECTRICAL	OPNG	OPENING	UR/W	UTILITY RIGHT OF WAY
EMERG	EMERGENCY	O/S	OFFSET	U/S	UNDERSIDE
EOA	EDGE OF ASPHALT	P&C	POST AND CABLE FENCE	VERT	VERTICAL
EOG	EDGE OF GRAVEL	PL	PLATE	WAT	WATERMAIN
EQUIP	EQUIPMENT	PL	PLATE	WL	WATER LEVEL

NOTES

GENERAL NOTES:

- ALL CONSTRUCTION AND MATERIALS TO MEET THE CONTRACT SPECIFICATIONS.
- CONTRACTOR TO COORDINATE THE EFFORTS AND SCHEDULING OF ALL UTILITY COMPANIES AND THE MUNICIPALITY FORCES FOR THEIR PORTION OF THE WORK.
- LOCATIONS AND DEPTHS OF ALL EXISTING UTILITIES TO BE CONFIRMED BY THE CONTRACTOR IN THE FIELD. ANY CONFLICTS WITH PROPOSED UTILITIES ARE TO BE REPORTED TO THE DEPARTMENT REPRESENTATIVE PRIOR TO CONSTRUCTION.
- THE CONTRACTOR IS RESPONSIBLE FOR ALL DETOURING AND CONSTRUCTION SIGNAGE (TRAFFIC AND PEDESTRIAN ACCOMMODATION STRATEGY).
- PROVIDE GRANULAR MATERIAL IN ACCORDANCE WITH THE CONTRACT DRAWINGS AND SPECIFICATIONS OR BY THE DEPARTMENTAL REPRESENTATIVE.
- REFER TO SPECIFICATION SECTION 31 23 33.01 - EXCAVATING, TRENCHING AND BACKFILLING FOR BACKFILL COMPACTION REQUIREMENTS.
- ALL DIMENSIONS ARE IN METERS, UNLESS OTHERWISE NOTED.
- ALL EXISTING TREES TO REMAIN UNLESS EXPRESSED PERMISSION BY THE OWNER OR DEPARTMENTAL REPRESENTATIVE HAS BEEN GIVEN. THE CONTRACTOR IS RESPONSIBLE FOR THE REPLACEMENT OF ANY TREE INADVERTENTLY DEMOLISHED.
- ALL NEW WORK SHOWN ON THE CONTRACT DRAWINGS IS PART OF THIS CONTRACT UNLESS NOTED OTHERWISE DELINEATED WITH "BY OTHERS".
- REFER TO GEOTECHNICAL REPORT FOR EXISTING CONDITIONS, BOREHOLE LOGS AND CONSTRUCTION REQUIREMENTS.
- PRIOR TO CONSTRUCTION, ALL PERMITS REQUIRED TO BE APPLIED, OBTAINED AND PAID FOR BY THE CONTRACTOR.

SHALLOW UTILITY NOTES:

- THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVISION AND COSTS FOR ALL SERVICE CONNECTIONS, TEMPORARY UTILITY REQUIREMENTS, AND ANY OTHER RELATED WORK ON THE SITE INCLUDING COORDINATION WITH ALL THE PERTINENT SHALLOW UTILITY COMPANIES FOR THEIR PORTION OF THE WORK.
- ALL UTILITIES ARE APPROXIMATE ONLY AND THE EXACT LOCATION SHALL BE DETERMINED BY THE CONTRACTOR CONSULTING WITH THE MUNICIPAL AUTHORITIES AND THE UTILITY COMPANIES CONCERNED. THE CONTRACTOR SHALL ALSO VERIFY THE EXACT LOCATION, PIPE MATERIAL (FOR TE-INS), AND INVERT ELEVATION BY HAND EXCAVATION, HYDROVAC, OR SIMILAR METHOD FOR ALL UTILITY CROSSINGS, TE-INS AND POTENTIAL CONFLICTS WITHIN THE CONSTRUCTION LIMITS. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS PRIOR TO STARTING CONSTRUCTION.

WATER NOTES:

- TOP OF WATERMAIN TO BE A MINIMUM OF 2.00m BELOW FINISHED GRADE OR AS INDICATED ON PARTICULAR PROJECT DRAWINGS AND SPECIFICATIONS.
- ALL PRESSURE PIPES TO BE MECHANICALLY RESTRAINED USING THRUST BLOCKS, COMPLY TO LOCAL STANDARDS, AND TO BE CONFIRMED WITH DEPARTMENTAL REPRESENTATIVE, INCLUDING INTERMEDIATE JOINTS, BENDS, AND FITTINGS OF ALL DIAMETERS.
- EXISTING PIPE MATERIAL AND ELEVATIONS TO BE TIED INTO ARE UNKNOWN AND SHALL BE CONFIRMED BY THE CONTRACTOR, ONCE CONFIRMED, APPROPRIATE TIE-IN FITTINGS TO BE SUPPLIED AS PER SPECIFICATIONS (TAPPING SADDLE, CORPORATION STOPS, ETC).

SANITARY NOTES:

- SANITARY SEWER PIPES TO BE OF MATERIAL AND CLASS AS DETAILED ON THE CONTRACT DRAWINGS AND SPECIFICATIONS CONFORMING TO CURRENT CSA STANDARDS.
- TOP OF SANITARY SEWER PIPE TO BE A MINIMUM OF 2.00m BELOW FINISHED GRADE (UNLESS NOTED OTHERWISE IN THE CONTRACT DRAWINGS).
- EXISTING PIPE MATERIAL AND ELEVATIONS TO BE TIED INTO ARE UNKNOWN AND SHALL BE CONFIRMED BY THE CONTRACTOR, ONCE CONFIRMED, APPROPRIATE TIE-IN FITTINGS TO BE SUPPLIED AS PER SPECIFICATIONS.

STORM NOTES:

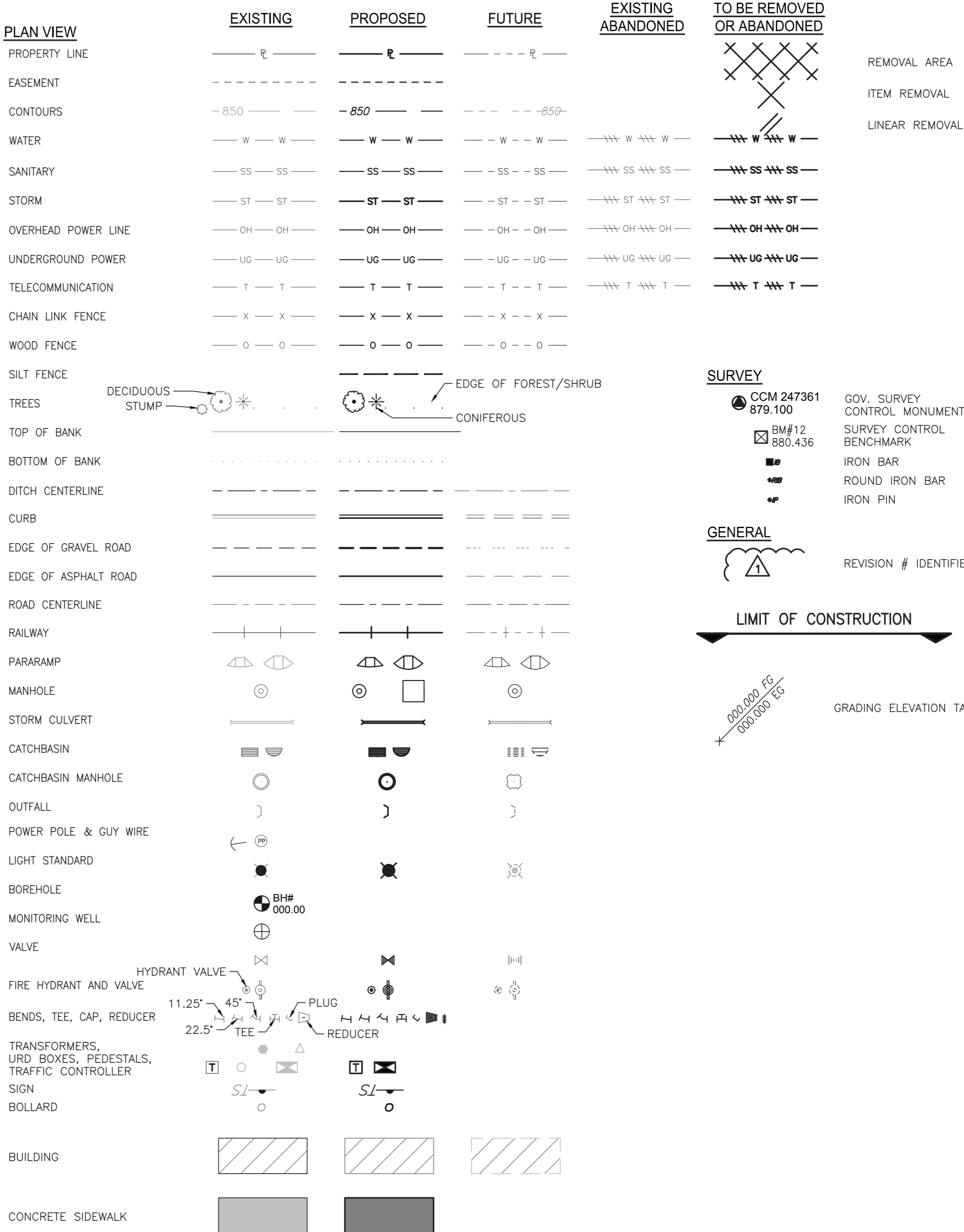
- EXISTING DRAINAGE PATTERNS TO BE MAINTAINED.
- CULVERTS TO HAVE PIPE STIFFNESS AS DETAILED IN THE CONTRACT DRAWINGS AND SPECIFICATIONS CONFORMING TO CURRENT CSA STANDARDS.

EARTHWORK & GRADING NOTES:

- ALL GRADING IS TO OCCUR WITHIN THE CONSTRUCTION LIMITS AS ILLUSTRATED ON THE CONTRACT DRAWINGS UNLESS PRIOR WRITTEN PERMISSION HAS BEEN OBTAINED FROM THE LAND OWNER AND APPROVED BY THE DEPARTMENT REPRESENTATIVE.
- EXISTING ASPHALT IN THE PARKING LOT AREA IS TO BE REMOVED AS INDICATED ON DRAWINGS.
- SPECIFIED SUB-BASE MATERIAL (PIT RUN GRAVEL) IS TO BE USED FOR FILL, TOPPING WITH 200MM OF BASE COURSE MATERIAL (20MM CRUSH) TO REACH INDICATED FINISHED GRADE.
- PRIOR TO FINAL GRADING OF PARKING LOT, CALCIUM CHLORIDE SHALL BE APPLIED TO THE BASE COURSE (AT THE RATE OF 1.0 KG/M2 OF FLAKE, OR EQUIVALENT) AND WATER APPLIED FOR DUST SUPPRESSION.
- A MINIMUM OF 1.0M OF NON-FROST-SUSCEPTIBLE MATERIAL IS REQUIRED UNDER CONCRETE APRONS.

EROSION/SEDIMENT CONTROL:

- PRIOR TO START OF CONSTRUCTION, ENSURE SILT FENCING HAS BEEN INSTALLED AS INDICATED ON DRAWING C-102. REGULARLY INSPECT AND MAINTAIN SILT FENCE THROUGHOUT CONSTRUCTION.



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Revisions/Revisions	Description/Description	Date/Date

Client/Client

**PARKS CANADA**

**HAINES JUNCTION, Y.T.**

Project title/Titre du projet

**TRADES BUILDING**

**KLUANE PARK**

**HEAD QUARTERS**

Consultant Approval Box Only

Designed by/Concept par

**T. HEAL**

Drawn by/Dessiné par

**M. DARTNELL**

PWSC Project Manager/Administrateur de Projets TPSC

**STEPHANE CLAVEL**

PWSC Regional Manager, Architectural and Engineering Services/ Services d'architecture et de génie, TPSC

**PREETIPAL PAUL**

Drawing title/Titre du dessin

**LEGEND AND CIVIL NOTES**

Project No./No. du projet	Sheet/Feuille	Revision no./La Révision no.
<b>R.075647.001</b>	<b>C-100</b>	<b>0</b>



BLOCK 37 HAINES JUNCTION  
CLSR: 65943 CLSR YT  
LTO: 57384 LTO YT

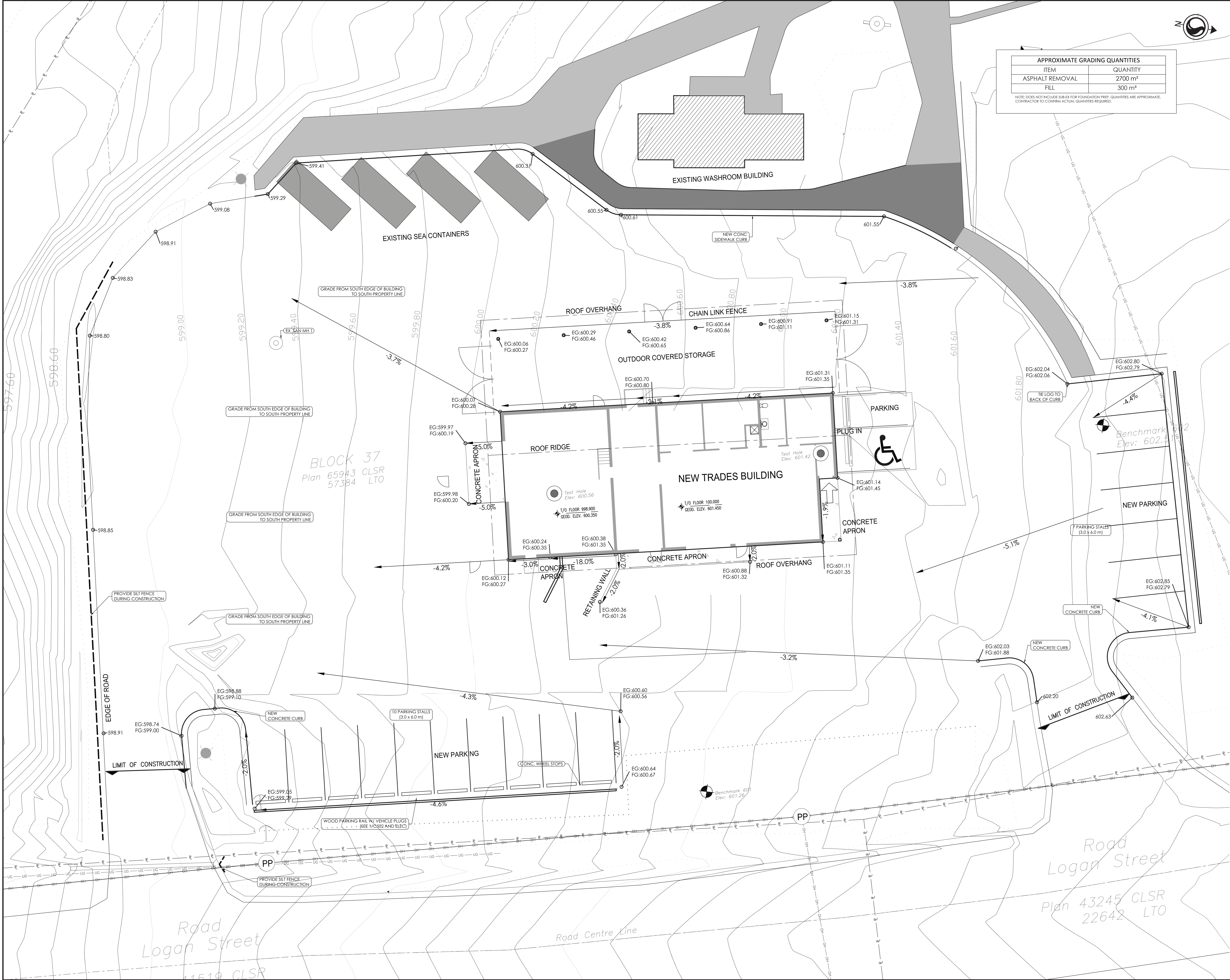


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**TRADES BUILDING  
KLUANE PARK  
HEAD QUARTERS**

Drawing title/Titre du dessin

2 OF 6



APPROXIMATE GRADING QUANTITIES	
ITEM	QUANTITY
ASPHALT REMOVAL	2700 m <sup>2</sup>
FILL	300 m <sup>3</sup>

NOTE: DOES NOT INCLUDE SUBSEX FOR FOUNDATION PREP. QUANTITIES ARE APPROXIMATE. CONTRACTOR TO CONFIRM ACTUAL QUANTITIES REQUIRED.



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HORIZONTAL DATUM NOTE  
PROJECTION: UTM ZONE 8U  
DATUM: NAD 83 CANADIAN DATUM  
SOURCE: 2014 CANADIAN DATUM  
VERTICAL DATUM NOTE  
ELEVATIONS ARE: ORTHOMETRIC (DATA COORDS) AND ARE DERIVED FROM STATION UG99, HAVING AN ELEVATION OF 602.51 METERS



1:100

Revision	Description	Date
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PARKS CANADA  
HAINES JUNCTION, Y.T.

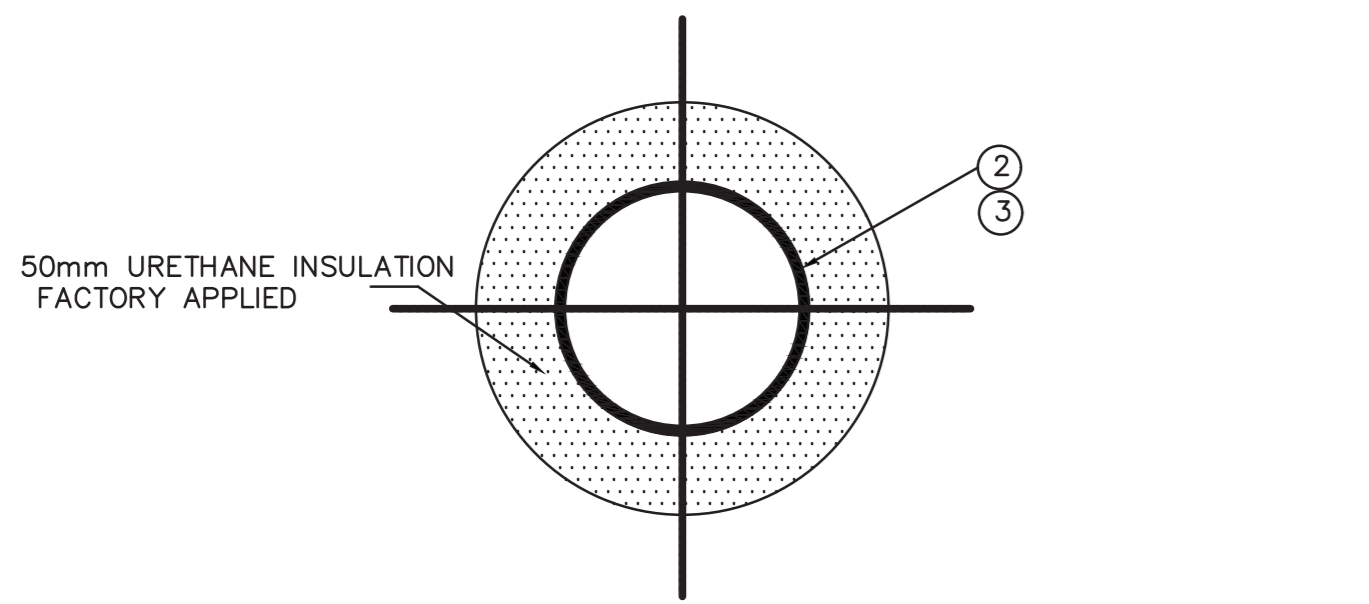
TRADES BUILDING  
KLUANE PARK  
HEAD QUARTERS

Consultant Approval Box Only  
M. MORITZ  
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T. HEAL  
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PWSC: Project Manager/Administrateur de Projets TPSC  
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PWSC: Regional Manager, Architectural and Engineering Services/  
PREETIPAL PAUL  
Drawing title/Titre du dessin

PROPOSED SITE PLAN

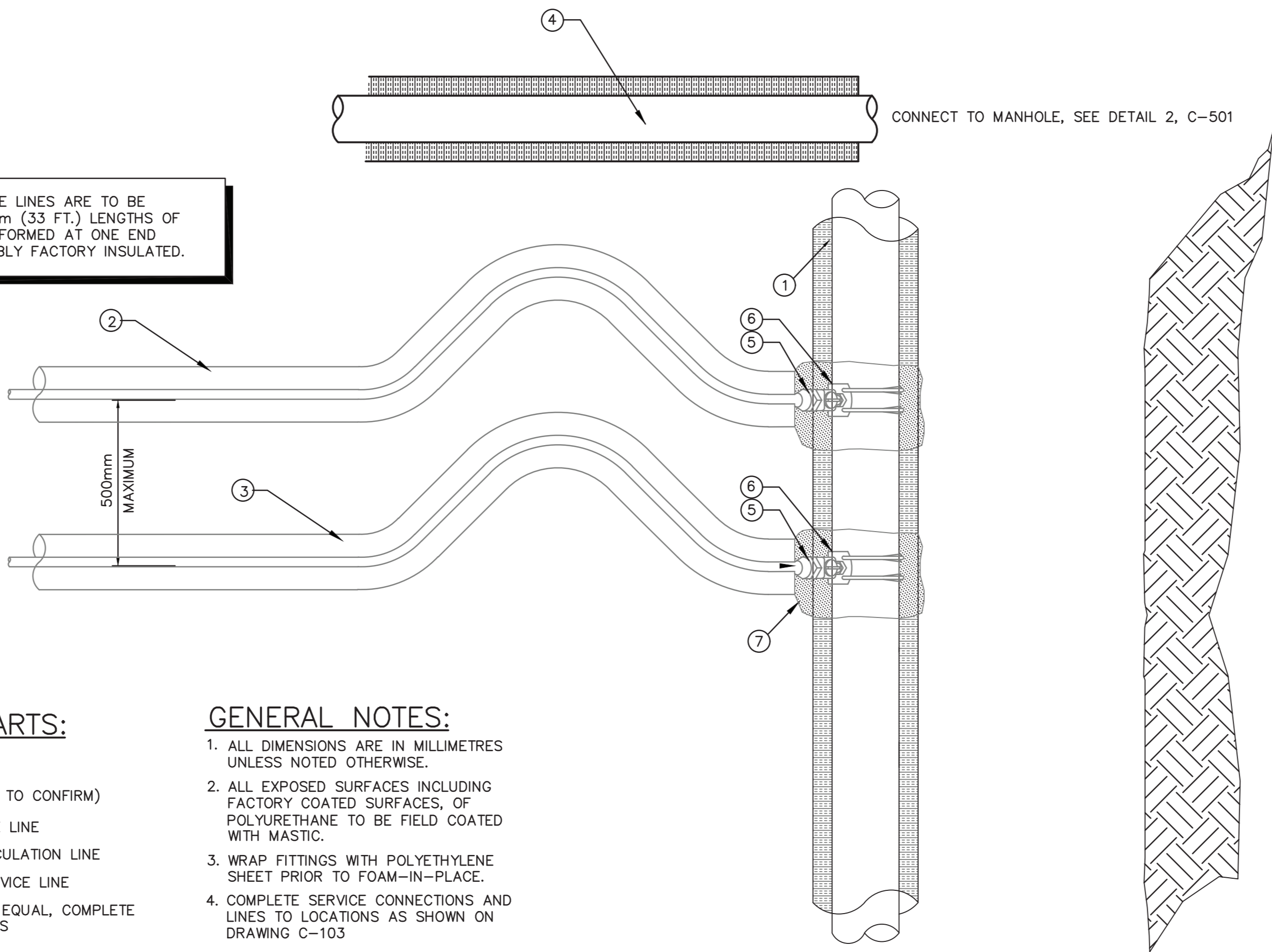
Project No./No. du projet	Sheet/Feuille	Revision no./ La Révision no.
R.075647.001	C-102	0
		3 OF 6





1 TYPICAL SECTION THROUGH WATER SERVICE  
C-501 NTS

INSULATED HDPE SERVICE LINES ARE TO BE FABRICATED FROM 10.0 m (33 FT.) LENGTHS OF HDPE WITH GOOSENECK FORMED AT ONE END AND THE ENTIRE ASSEMBLY FACTORY INSULATED.



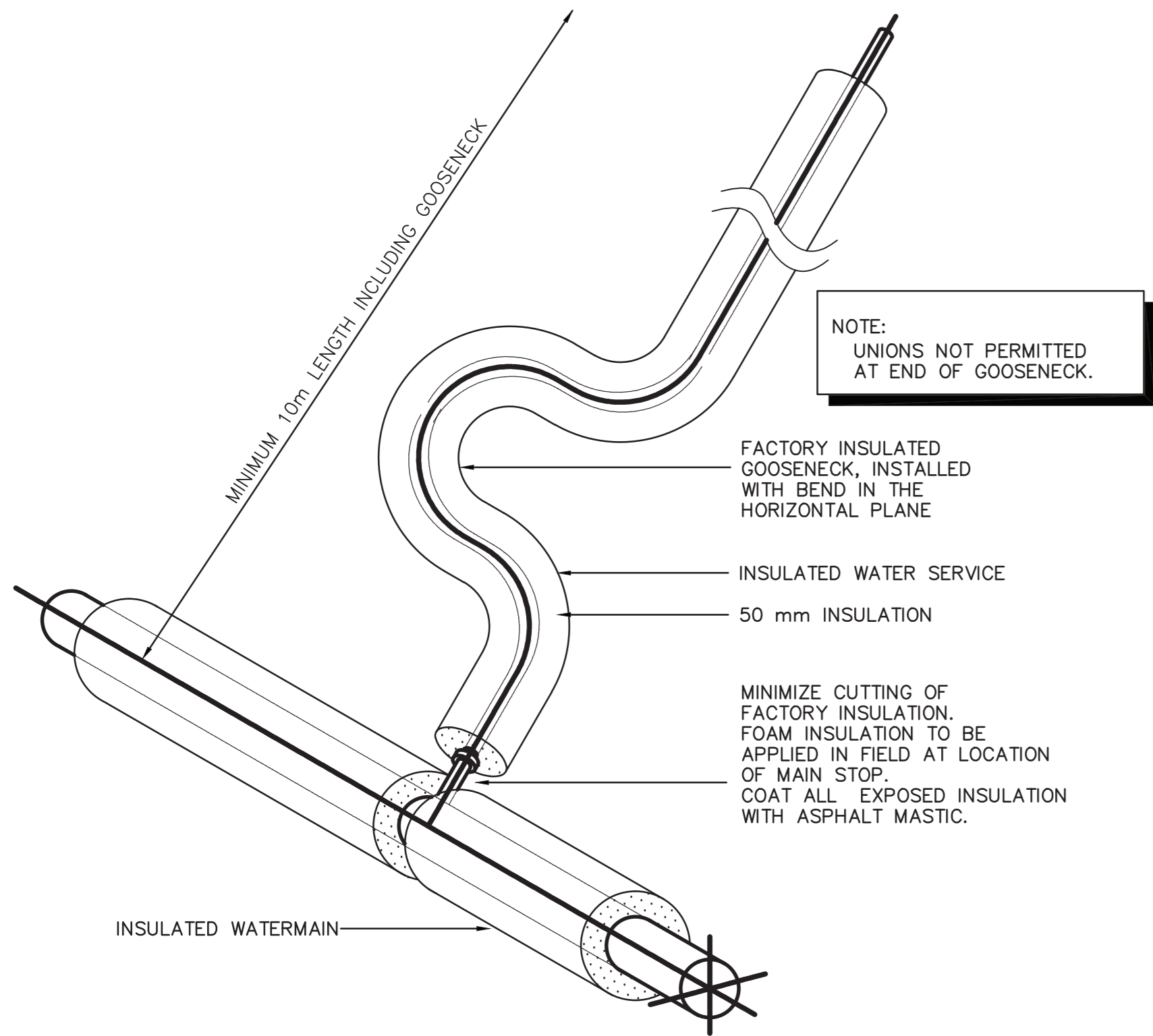
KEY TO NUMBERED PARTS:

- 150mm WATER MAIN (EXPECTED TO BE HDPE, CONTRACTOR TO CONFIRM)
- 38mm INSULATED HDPE WATER SERVICE LINE
- 19mm INSULATED HDPE SERVICE RECIRCULATION LINE
- 100mm INSULATED HDPE SANITARY SERVICE LINE
- 19mm/38mm MAIN STOP, MEULLER OR EQUAL, COMPLETE WITH STIFFNER FOR HDPE SERVICE LINES
- ROBAR 2706 BRONZE TAPPING SADDLE, 19mm/38mm OUTLET
- FIELD APPLIED URETHANE FOAM INSULATION

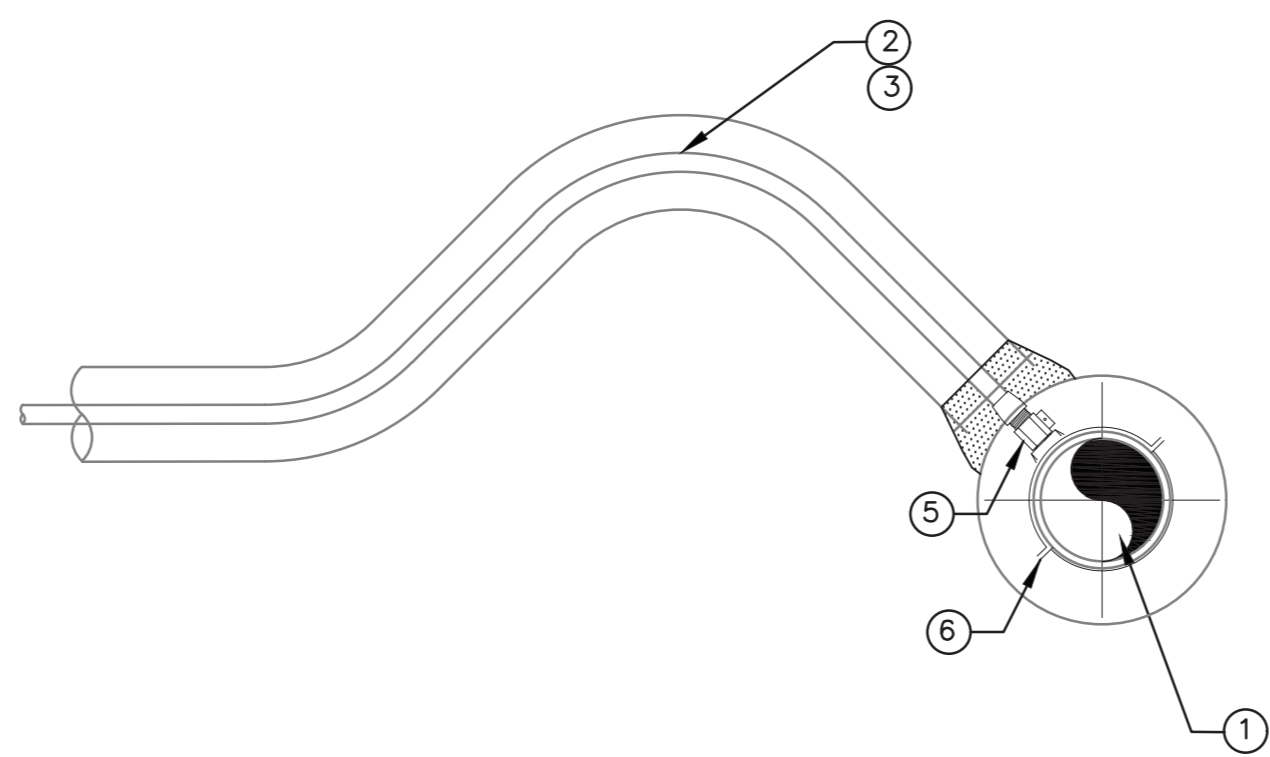
GENERAL NOTES:

- ALL DIMENSIONS ARE IN MILLIMETRES UNLESS NOTED OTHERWISE.
- ALL EXPOSED SURFACES INCLUDING FACTORY COATED SURFACES, OF POLYURETHANE TO BE FIELD COATED WITH MASTIC.
- WRAP FITTINGS WITH POLYETHYLENE SHEET PRIOR TO FOAM-IN-PLACE.
- COMPLETE SERVICE CONNECTIONS AND LINES TO LOCATIONS AS SHOWN ON DRAWING C-103

2 SERVICE CONNECTION PLAN  
C-501 NTS



3 GOOSENECK / MAIN STOP INSULATION DETAIL AT WATER MAIN  
C-501 NTS



4 WATER SERVICE CONNECTION SERCTION  
C-501 NTS



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PARKS CANADA  
HAINES JUNCTION, Y.T.

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TRADES BUILDING  
KLUANE PARK  
HEAD QUARTERS

Consultant Approval Box Only

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PREETIPAL PAUL

Drawing title/Titre du dessin

CIVIL DETAILS

Project No./No. du projet

R.075647.001

Sheet/Feuille

C-501

Revision no./

La Révision

no.

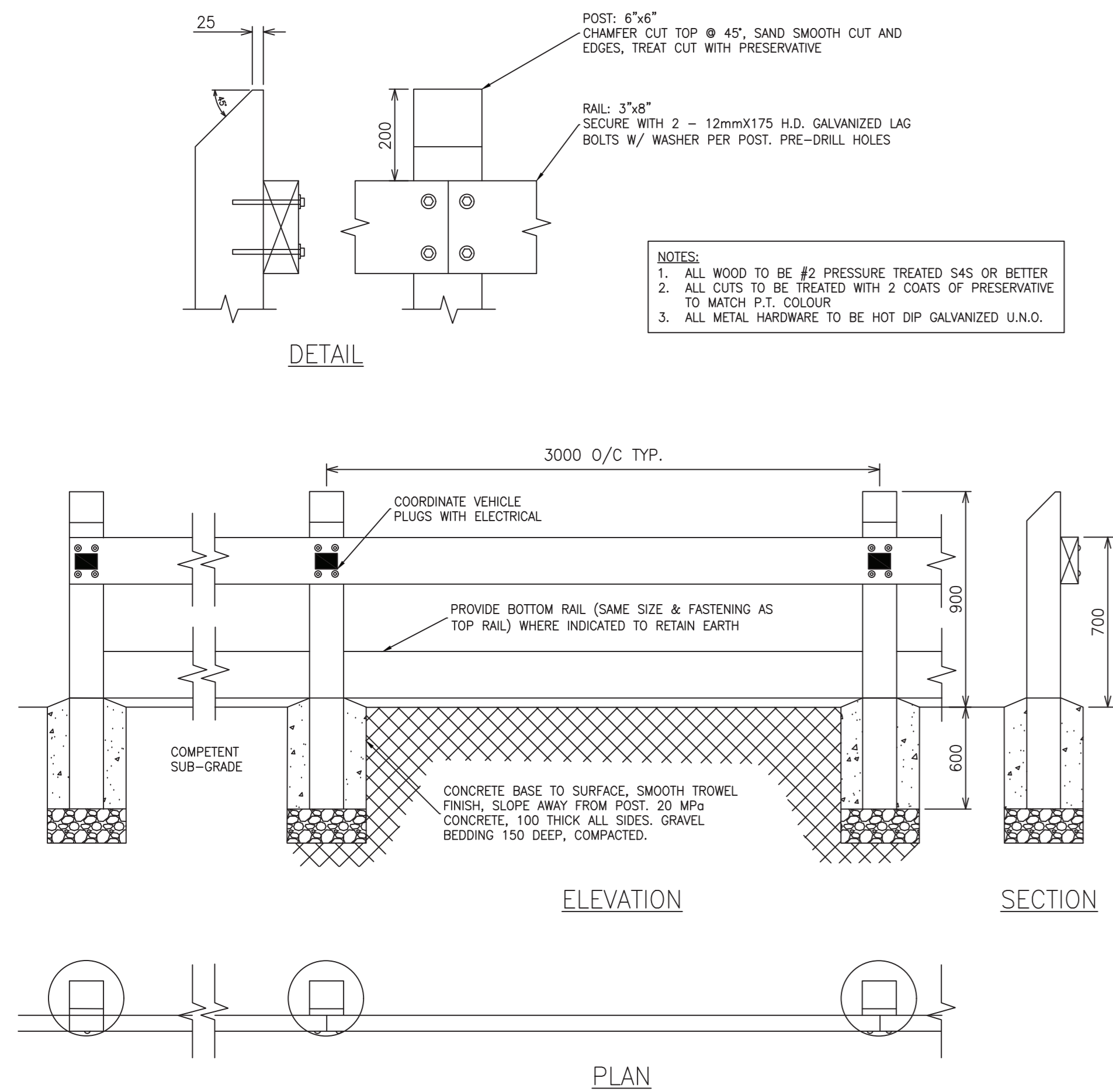
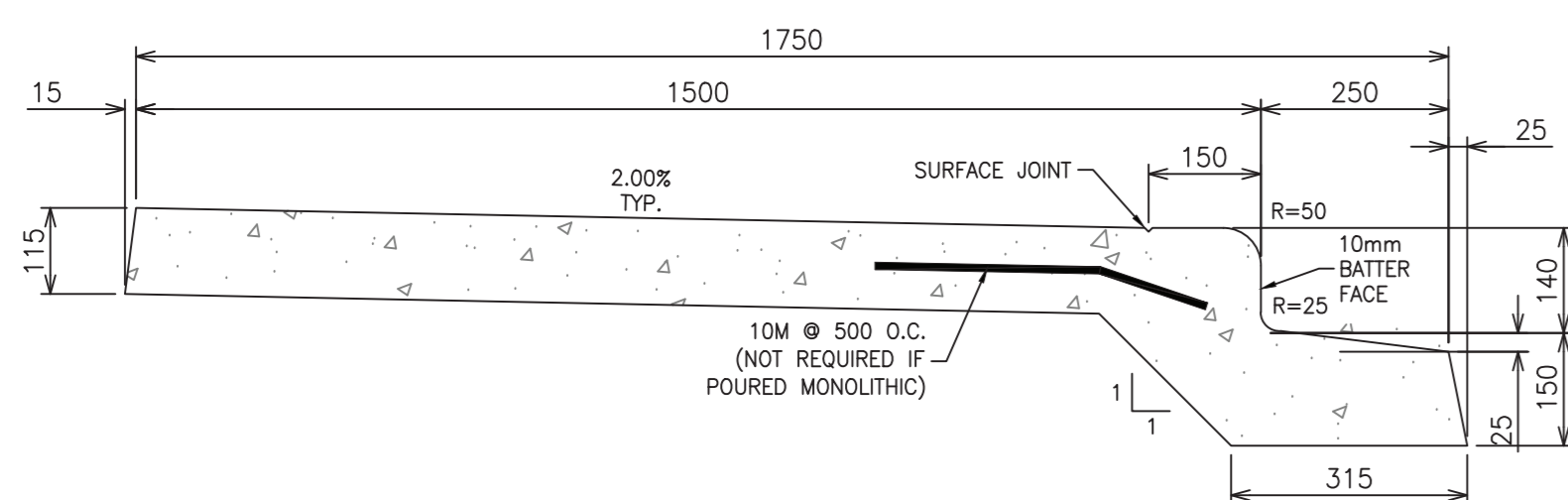
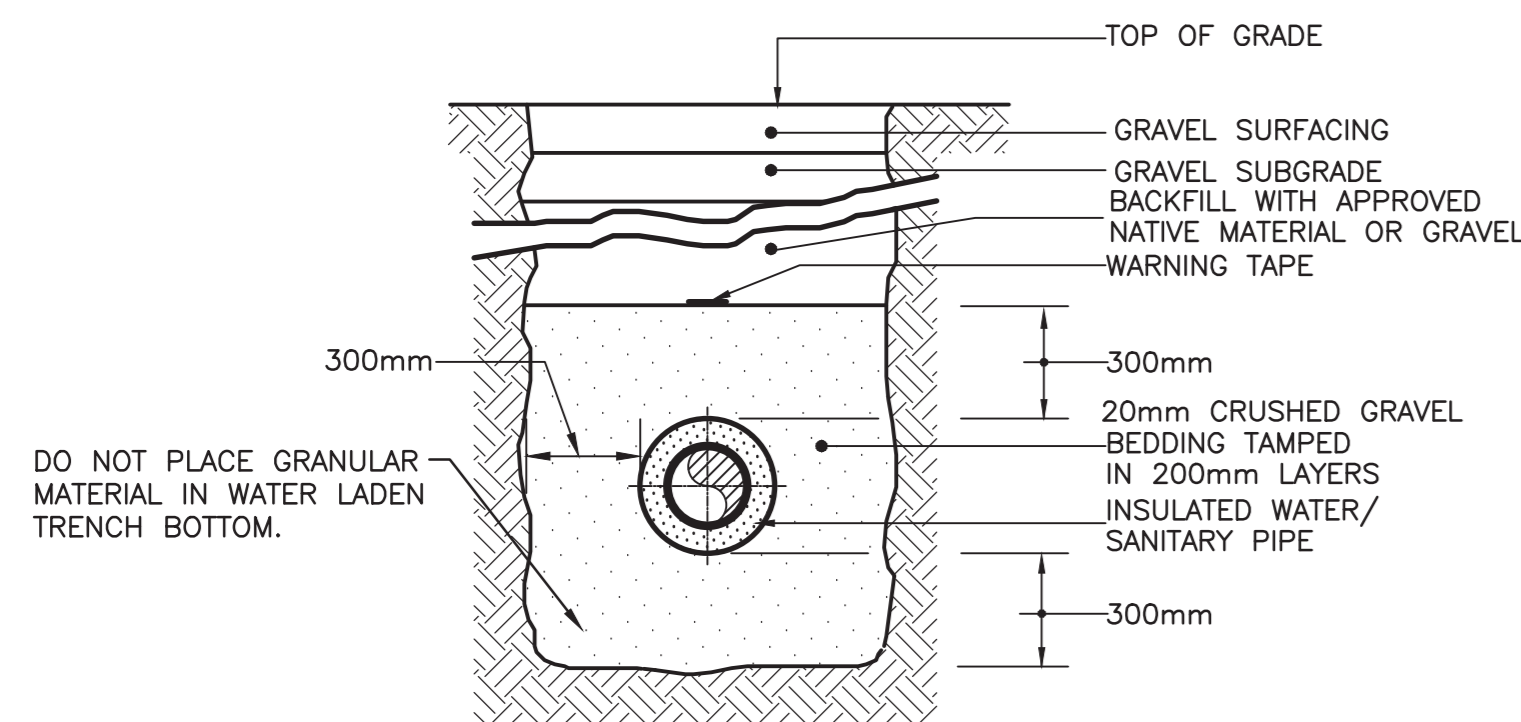
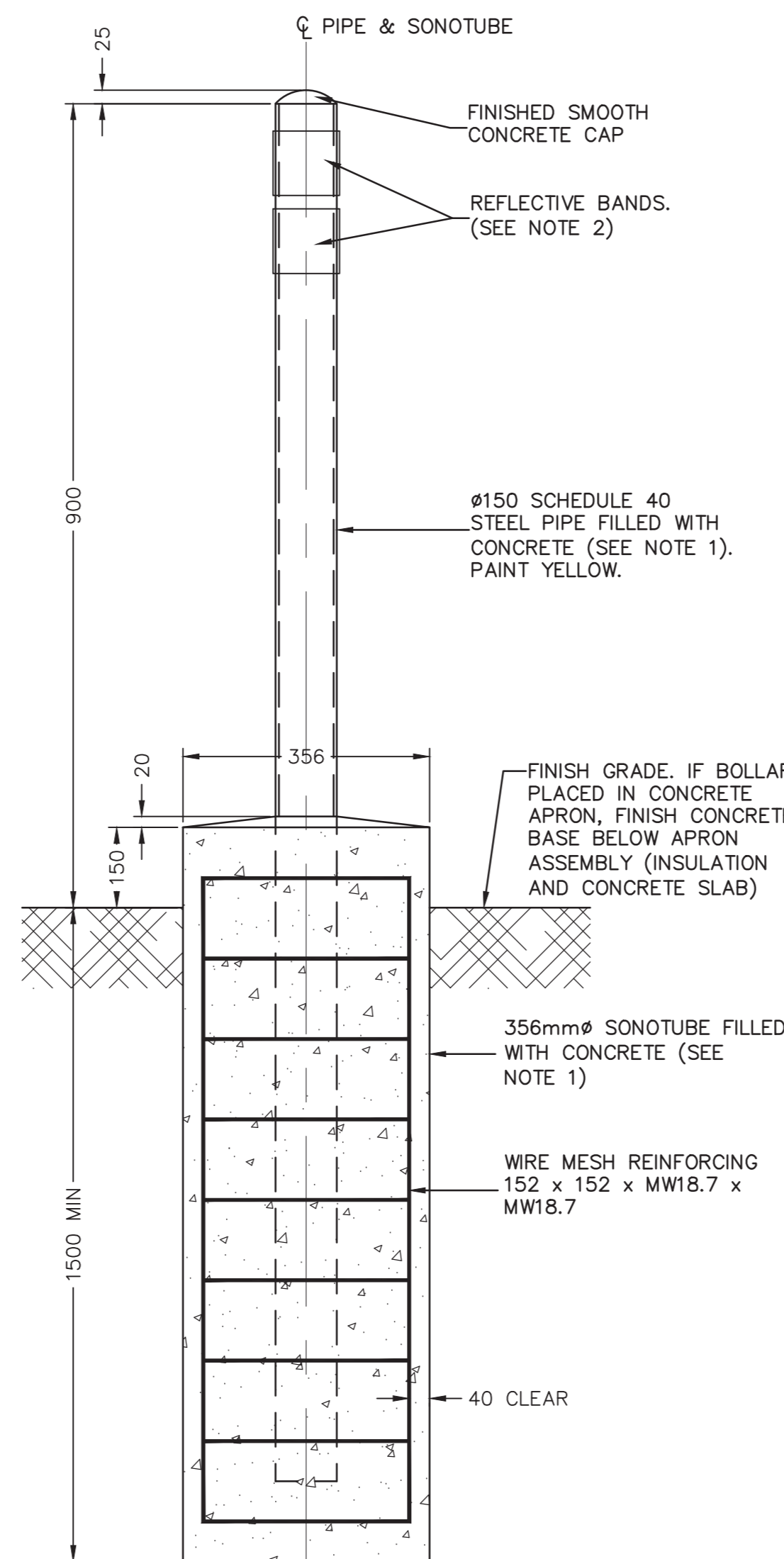
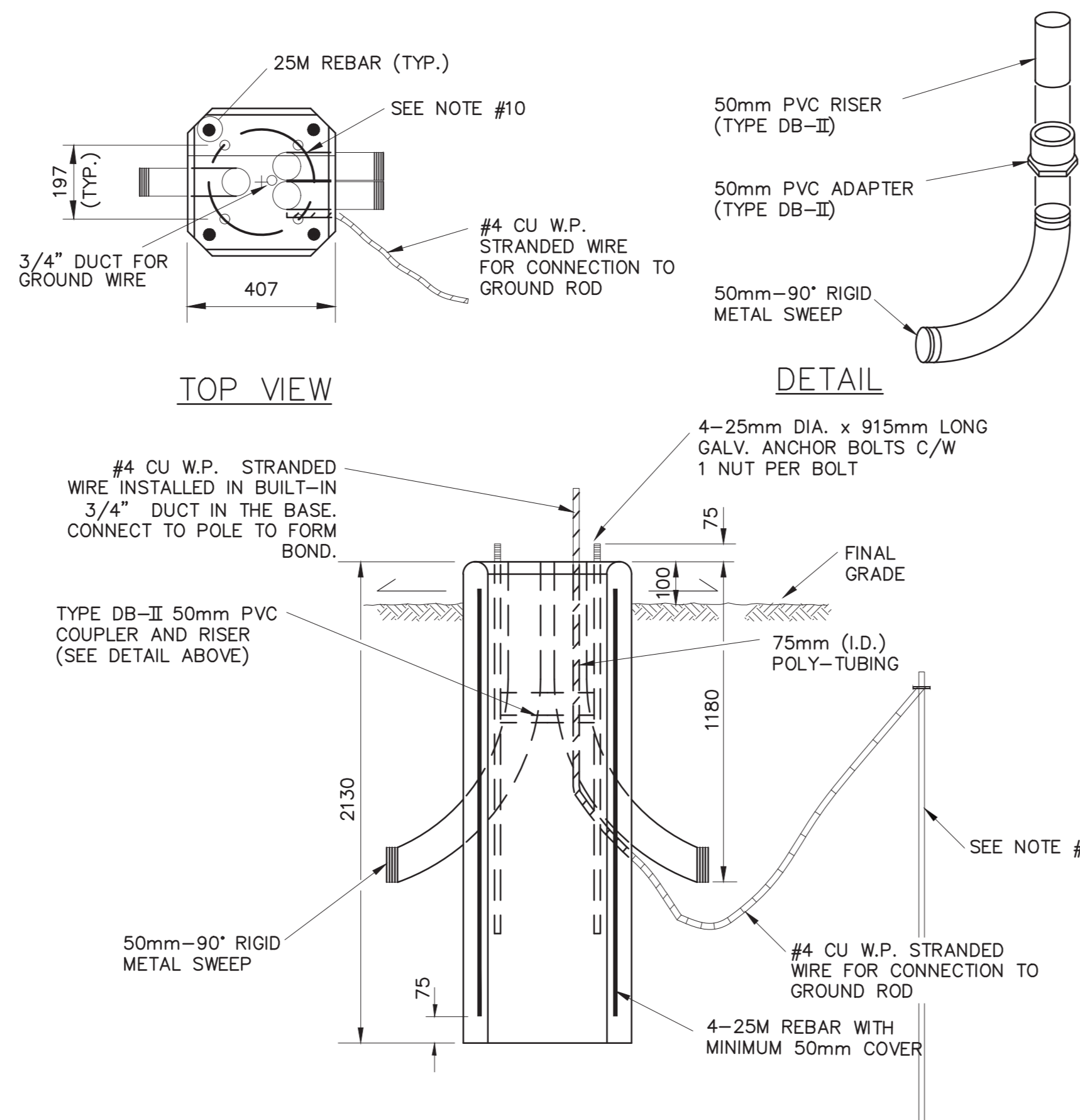
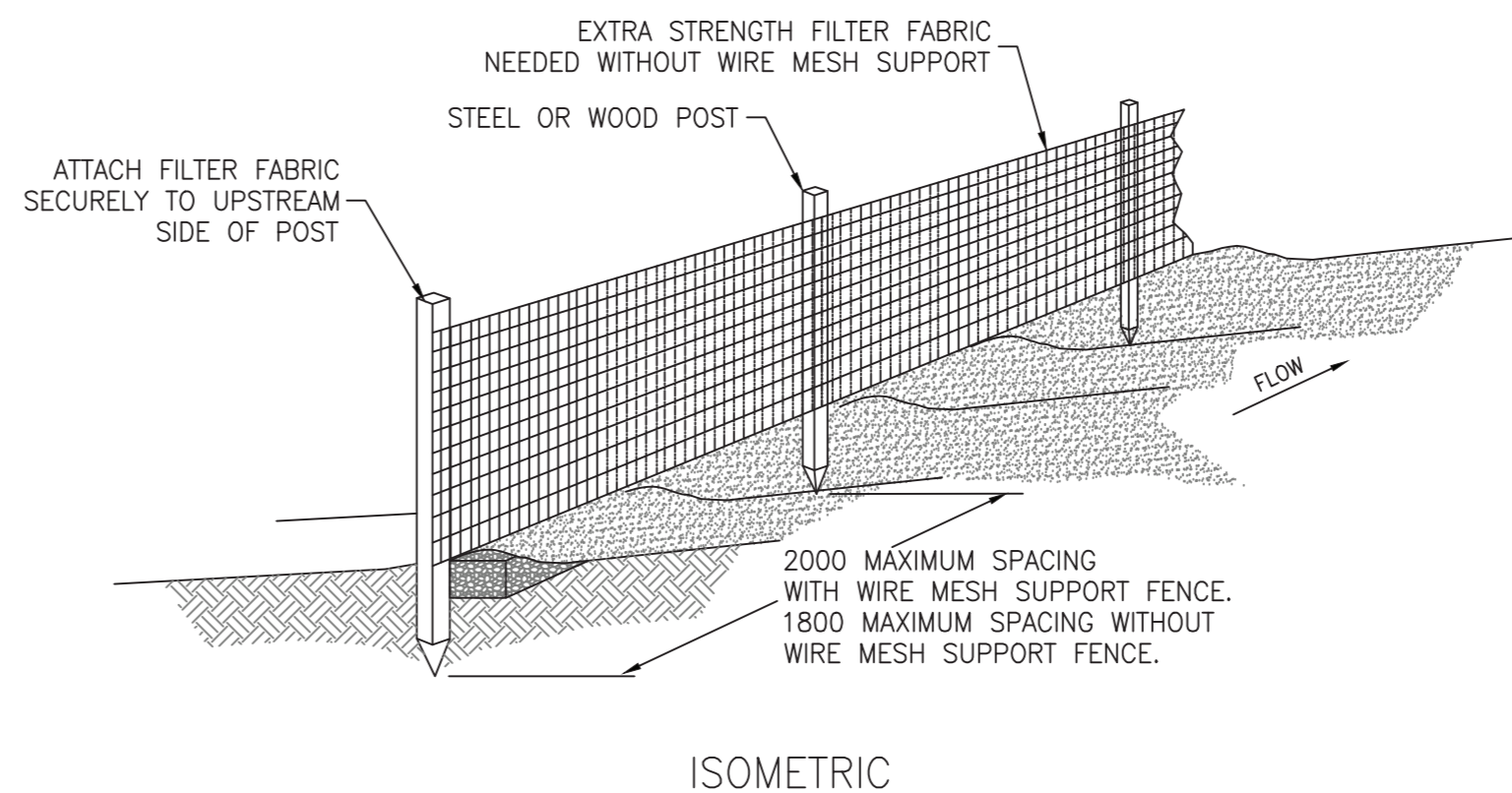
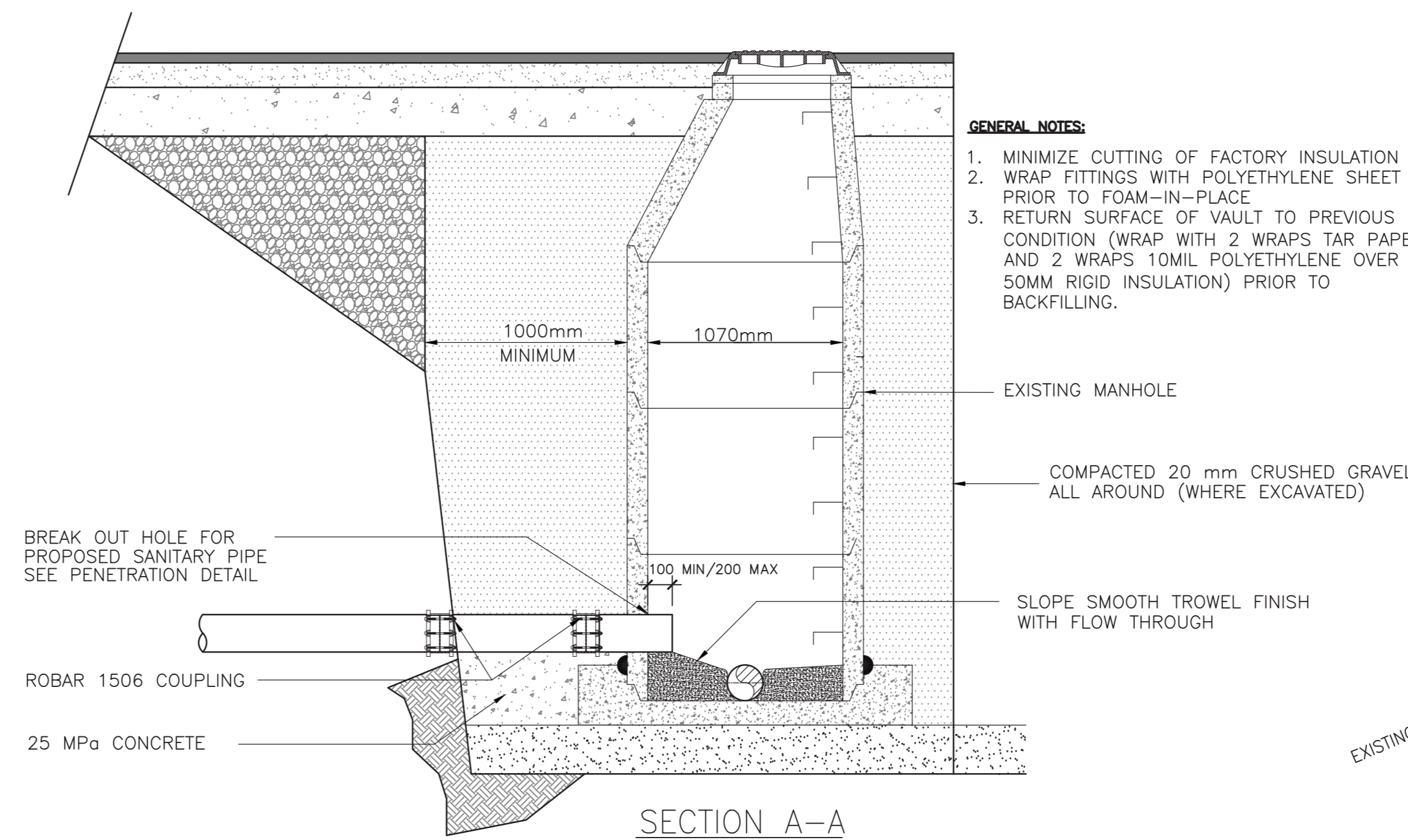
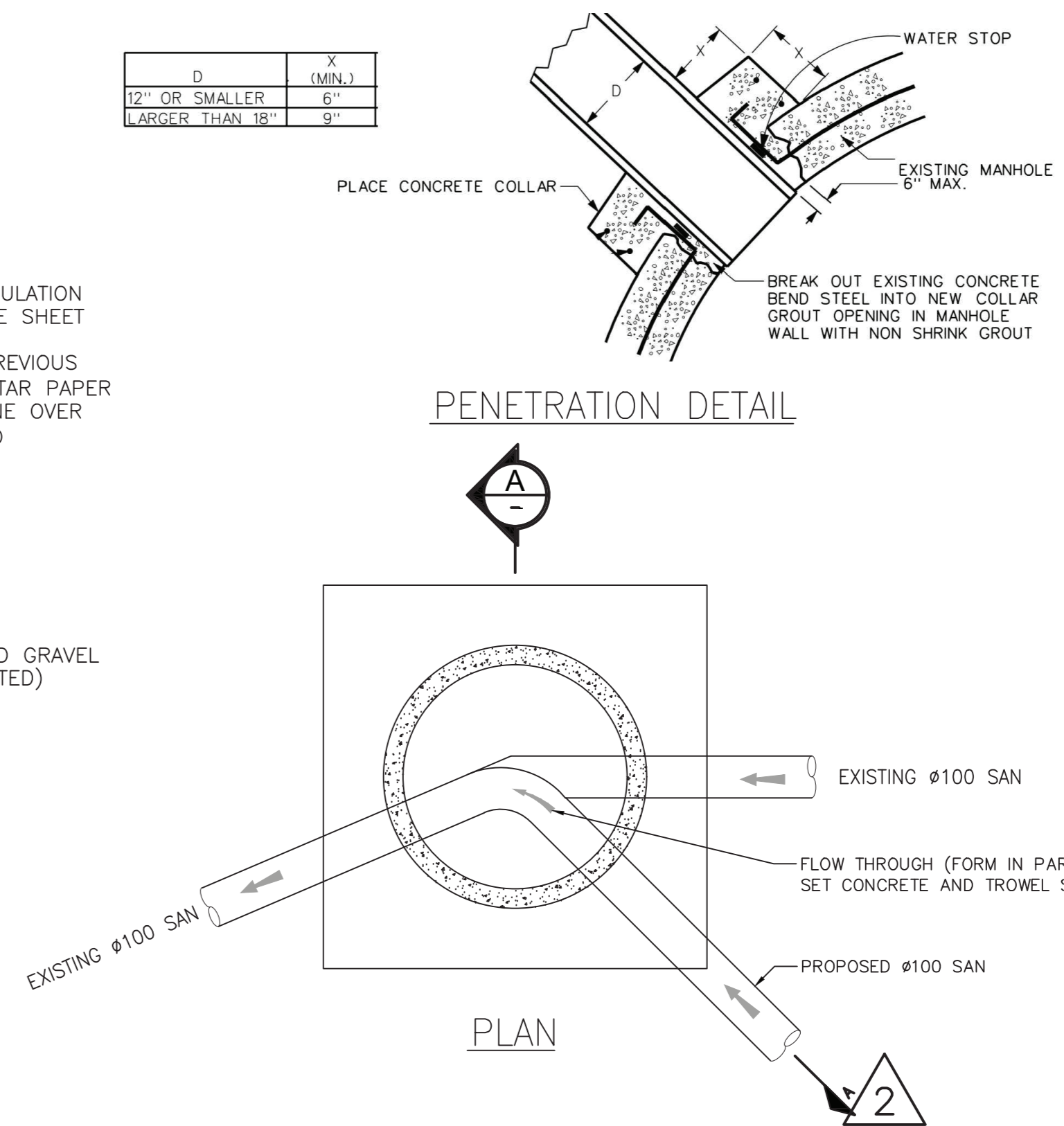
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**1 WOOD PARKING RAIL DETAIL**  
C-502 NTS**2 CONC. CURB & WALK DETAIL**  
C-502 NTS**6 STANDARD TRENCH DETAIL**  
C-502 NTS**3 TYPICAL BOLLARD DETAIL**  
C-502 NTS**7 LIGHT STANDARD BASE DETAIL**  
C-502 NTS**4 SILT FENCE**  
C-502 NTS**5 MANHOLE DETAIL**  
C-502 NTS**PLAN****PARKS CANADA  
HAINES JUNCTION, Y.T.**

Project title/Titre du projet

**TRADES BUILDING  
KLUANE PARK  
HEAD QUARTERS**

Consultant Approval Box Only

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PREETIPAL PAUL

Drawing title/Titre du dessin

**CIVIL DETAILS**

Project No./No. du projet

R.075647.001

Sheet/Feuille

C-502

Revision no./

La Révision

no.

0

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# PIPING IDENTIFICATION AND SYMBOLS

CA	COMPRESSED AIR
ACW	ACID WASTE
ATV	ATMOSPHERIC VENT
BD	BOILER BLOWDOWN
C	CONDENSER WATER SUPPLY
CD	CONDENSATE DRAIN (ABOVE GRADE OR FLOOR)
CD	CONDENSATE DRAIN (BELOW GRADE OR FLOOR)
CR	CONDENSER WATER RETURN
CWS	CHILLED WATER SUPPLY
CWR	CHILLED WATER RETURN
D	DRAIN
DEMS	DEMINERALIZED WATER SUPPLY
DEMR	DEMINERALIZED WATER RETURN
DM	DRY MOP
D	DISTILLED WATER
DWS	DRINKING WATER SUPPLY
DWR	DRINKING WATER RETURN
FILL	FILL LINE
FOS	FUEL OIL SUCTION
FOR	FUEL OIL RETURN
FOS	FUEL OIL VENT
GLS	GLYCOL SUPPLY
GLR	GLYCOL RETURN
H	HUMIDIFICATION LINE
H2	HYDROGEN
HE	HELIUM
HPC	HIGH-PRESSURE CONDENSATE
HPS	HIGH-PRESSURE STEAM (75-150 PSI)
HPS	HEAT PUMP WATER SUPPLY
HPS	HEAT PUMP WATER RETURN
HWS	HOT WATER HEATING SUPPLY
HWR	HOT WATER HEATING RETURN
A	INSTRUMENT AIR
LP	LOW-PRESSURE CONDENSATE
LP	LOW-PRESSURE STEAM (0-15PSI)
P	PUMPED CONDENSATE
P	PROPANE GAS
PSAN	PUMPED SANITARY
MG	MIXED GAS
MPC	MEDIUM-PRESSURE CONDENSATE
MPS	MEDIUM-PRESSURE STEAM (15-75 PSI)
RL	REFRIGERANT LIQUID
RG	REFRIGERANT HOT GAS
SD	SANITARY DRAIN (ABOVE GRADE OR FLOOR)
SD	SANITARY DRAIN (BELOW GRADE OR FLOOR)
ST	STORM DRAIN (ABOVE GRADE OR FLOOR)
ST	STORM DRAIN (BELOW GRADE OR FLOOR)
T	TEMPERED WATER
V	VENT
VAC	VACUUM (AIR)
WA	WET MOP
WCW	DOMESTIC COLD WATER
WHW	DOMESTIC HOT WATER
WHW	DOMESTIC HOT WATER RECIRC.

CB	CATCH BASIN
MO	MANHOLE
RD	ROOF DRAIN
RD	ROOF DRAIN (ABOVE)
FD	FLOOR DRAIN
FDD	FUNNEL FLOOR DRAIN
HD	HUB DRAIN
HB	HOSE BIBB
PC	PIPE CAP
PB	PIPE BREAK
FA	FLOW ARROW
PD	PIPING ELBOW DOWN
PTD	PIPING TEE DOWN
PU	PIPING TEE UP
STPD	SANITARY/STORM PIPING DOWN
STPU	SANITARY/STORM PIPING UP
STTD	SANITARY/STORM TEE DOWN
STTU	SANITARY/STORM TEE UP
STB	SANITARY/STORM BRANCH
SC	STANDARD CLEAN-OUT IN LINE END OF RUN
SC	STANDARD CLEAN-OUT THROUGH FLOOR END OF RUN
SC	STANDARD CLEAN-OUT THROUGH FLOOR IN LINE
PS	PIPING SLOPE
FT	FIXTURE TRAP
BT	BUILDING TRAP
GV	GATE VALVE
GV	GLOBE VALVE
PRV	PRESSURE REDUCING VALVE
SCV	SWING GATE CHECK VALVE
BV	BALL VALVE
BV	BALANCING VALVE
PV	PLUG VALVE
BFV	BUTTERFLY VALVE
FM	VENTURI FLOWMETER
PP	PETES PLUG
FV	FLOAT OPERATED VALVE ACTUATOR
NV	NEEDLE VALVE
BCV	BUTTERFLY CHECK VALVE
CR	CENTRIC REDUCER
ECR	ECCENTRIC REDUCER
CVC	CENTRAL VACUUM CLEANING/DRYMOP/WETMOP OUTLET
CAO	COMPRESSED AIR OUTLET
YS	Y STRAINER
BS	BLOW OFF Y STRAINER
STW	STEAM TRAP
TMW	THERMOMETER WELL
PG	PRESSURE GAUGE AND COCK
SA	SHOCK ABSORBER WITH HAMMER
UC	UNION CONNECTION
FC	FLANDED CONNECTION
OP	ORIFICE PLATE
OF	ORIFICE FLOW METER
SFG	SIGHT FLOW GLASS
FE	FLOW ELEMENT (MEASURING)
FC	FLEXIBLE CONNECTOR
EJ	EXPANSION JOINT
G	GUIDE
IA	INTERMEDIATE ANCHOR
MAV	MANUAL AIR VENT
AAV	AUTOMATIC AIR VENT
TM	THERMOMETER
BPP	BACKFLOW PREVENTER, DOUBLE CHECK TYPE
BPP	BACKFLOW PREVENTER, REDUCED PRESSURE ZONE (RPZ) TYPE

M	METER
AV	AIR VALVE
FS	FLOW SWITCH
P	PUMP (REFER TO SCHEDULE)
MA	MANUAL (GEAR) VALVE ACTUATOR
EO	ELECTRIC SOLENOID OPERATED VALVE ACTUATOR
PMO	PNEUMATIC MOTOR OPERATED VALVE ACTUATOR
SV	SANITARY VENT
GPR	GAS PRESSURE REGULATOR TO ATMOSPHERE VENT
RR	RELIEF (R) OR SAFETY (S) VALVE
AGV	ANGLE GATE VALVE (WITHOUT ACTUATOR)
TWV	THREE WAY VALVE (WITHOUT ACTUATOR)
VB	VACUUM BREAKER
PFT	PLUMBING FIXTURE TAG (REFER TO SCHEDULE)
FE	FIRE EXTINGUISHER
TSP	TRAP SEAL PRIMER
HKP	HOUSEKEEPING PAD
FOS	FUEL OIL SUPPLY

# HVAC SYMBOLS

RE	RECTANGULAR DUCT
REI	EXTERIOR DUCT INSULATION
REI	RECTANGULAR DUCT (WITH ACOUSTIC INSULATION)
RU	ROUND DUCT
PB	PARALLEL BLADE DAMPER
OB	OPPOSED BLADE DAMPER
DLI	DOUBLE LINE DUCT INCLINE
DLI	DOUBLE LINE DUCT CHANGE IN CONSTRUCTION
SET	SQUARE ELBOW TURN (SUPPLY UP/DOWN)
SET	SQUARE ELBOW TURN (RETURN UP/DOWN)
SET	SQUARE ELBOW TURN (EXHAUST UP/DOWN)
SET	SQUARE ELBOW TURN (INTAKE UP/DOWN)
ER	ELBOW, ROUND, SMOOTH RADIUS (UP/DOWN)
TE	TEE, 45 DEG., RECTANGULAR MAIN AND BRANCH
TE	TEE, 45 DEG., RECTANGULAR MAIN AND BRANCH, SQUARE TO ROUND
TE	TEE, 45 DEG., ROUND MAIN AND BRANCH
CW	CONICAL WYE, 45 DEG. ROUND MAIN AND BRANCH
ER	ELBOW, RECTANGULAR, SMOOTH RADIUS WITH SPLITTER VANES (0.25 R/W DEFAULT)
ER	ELBOW, RECTANGULAR, SMOOTH RADIUS WITHOUT VANES (1.0 R/W DEFAULT)
ER	ELBOW, ROUND, SMOOTH RADIUS (1.0 R/W DEFAULT)
ER	ELBOW, RECTANGULAR, MITERED WITH TURNING VANES
EL	ELBOWS, 90 DEG., RECTANGULAR TEE
EL	ELBOW, 90 DEG., RECTANGULAR WYE
EL	45 DEG. WYE, CONICAL MAIN AND BRANCH, ROUND
TR	TRANSITION, RECTANGULAR, PYRAMIDAL (30° CONTRACTUAL ANGLE DEFAULT)
TR	TRANSITION, RECTANGULAR, SIDE (30° CONTRACTUAL ANGLE DEFAULT)
FD	FIRE DAMPER
SD	SMOKE DAMPER
DS	DUCT MOUNTED SMOKE SENSOR
UD	DOOR UNDERCUT BY MIN 25mm
OA	OUTDOOR AIR
MA	MAKE UP AIR
EA	EXHAUST AIR
CA	COMBUSTION AIR

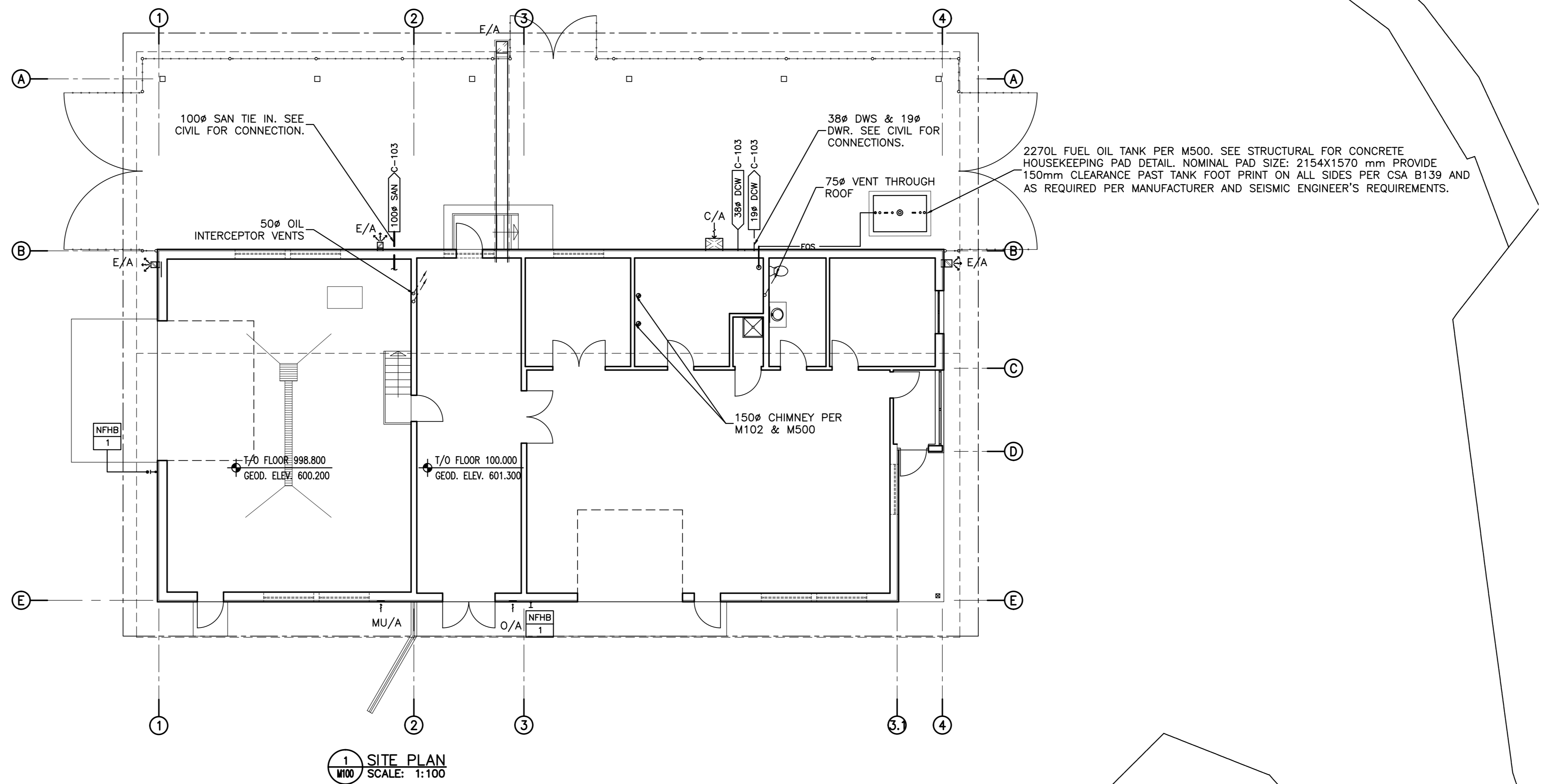
DN	SINGLE-LINE DUCT INCLINE
MATL1 - MATL2	SINGLE-LINE DUCT CHANGE IN CONSTRUCTION
DN	SINGLE-LINE DUCT BRANCH
DN	SINGLE-LINE DUCT TAKEDOFF
DN	DUCT CAP
DN	DUCT BREAK
DN	SINGLE-LINE SUPPLY OR RETURN DUCT
DN	SINGLE-LINE EXHAUST DUCT
DN	THERMOSTAT
DN	HUMIDISTAT
DN	FLEX DUCT (DOUBLE LINE)
DN	FLEX DUCT (SINGLE LINE)
DN	WALL MOUNTED GRILLE/REGISTER
DN	LINEAR DIFFUSER
DN	SINGLE SLOT TROFFER
DN	DOUBLE SLOT TROFFER
DN	CEILING DIFFUSER 600x600/300x300
DN	AIR FLOW ARROWS
DN	VAV BOX (REFER TO SCHEDULE)
DN	DOVE EXHAUST FAN (ROOF OR WALL MOUNTED)
DN	CEILING FAN
DN	HEATING/COOLING COIL TAG (REFER TO SCHEDULE)
DN	HC - HEATING COIL
DN	CC - COOLING COIL
DN	RHC - REHEAT COIL
DN	PHC - PREHEAT COIL
DN	HRC - HEAT RECLAIM COIL
DN	HORIZONTAL HOT WATER UNIT HEATER TAG (REFER TO SCHEDULE)
DN	PROJECTION HOT WATER UNIT HEATER TAG (REFER TO SCHEDULE)
DN	NEW FINNED TUBE RADIATION
DN	EXISTING FINNED TUBE RADIATION
DN	RADIANT PANEL
DN	AIR OUTLET TAG (REFER TO SCHEDULE)
DN	DOOR GRILLE TAG (REFER TO SCHEDULE)
DN	HOOD/LOUVER/WALL CAP TAG (REFER TO SCHEDULE)
DN	RADIATION HEATING TAG (REFER TO SCHEDULE)
DN	CABINET UNIT & UNIT HEATER TAG (REFER TO SCHEDULE)
DN	THERMOSTAT & CONTROL VALVE TAGS

# CONTROL EQUIPMENT LEGEND

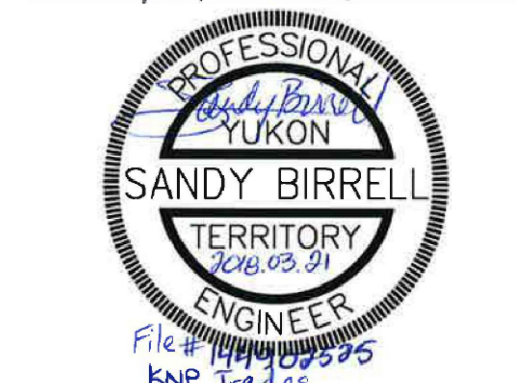
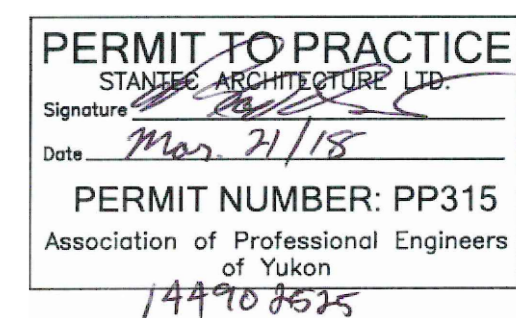
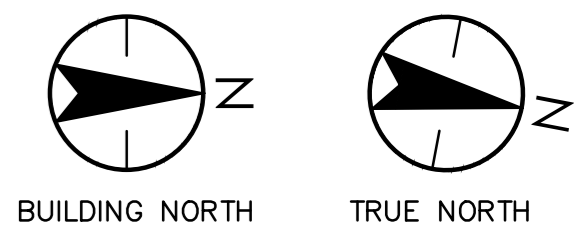
UNIT #	EQUIPMENT
AI	ANALOG INPUT
AO	ANALOG OUTPUT
BD	BACK DRAFT DAMPER
CS	CARBON DIOXIDE SENSOR
CS	CURRENT SENSOR, SIZED FOR SERVICE
DI	DIGITAL INPUT
DO	DIGITAL OUTPUT
DPS	DIFFERENTIAL PRESSURE SENSOR
ES	END SWITCH
FS	FLOW SWITCH
M	MOTORIZED OPERATOR
O	MANUAL OPERATOR
OAT	OUTSIDE AIR TEMPERATURE SENSOR C/W SHIELD
PS	PRESSURE SWITCH
R	RELAY SIZED FOR SERVICE
T1	DUCT AIR TEMPERATURE SENSOR
T2	LINE VOLTAGE THERMOSTAT
T5	LINE VOLTAGE THERMOSTAT WITH GUARD, BUILDING LOW TEMPERATURE
T6	REVERSE ACTING THERMOSTAT
T8	DUCT AIR TEMPERATURE SENSOR, AVERAGING TYPE
TC	TEMPERATURE CONTROLLER
TOL	THERMAL OVERLOAD BY ELECTRICAL
TX	TRANSFORMER
V3	TWO-WAY, 2 POSITION CONTROL VALVE C/W ACTUATOR WITH POSITION INDICATOR
V4	3-WAY MODULATING MIXING VALVE C/W ACTUATOR WITH POSITION INDICATOR

# CONTROLS LEGEND

DAMPER	
FILTER	
COIL (HEATING AND/OR COOLING)	
PRESSURE SENSOR	
AIR FLOW SWITCH	
PROBE SENSOR	
AVERAGING SENSOR	
DIFFERENTIAL PRESURE SENSOR	
DEVICE TAG	
POINT TAG	
MOTOR STARTER	
THERMAL OVERLOAD	
TRANSFORMER	
PUMP	
2-WAY CONTROL VALVE	
3-WAY CONTROL VALVE	
THREE WIRE	
TWO WIRE	
LIGHT	
FAN	



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**PARKS CANADA**  
**HAINES JUNCTION, Y.T.**

Project title/Titre du projet  
**TRADES BUILDING**  
**KLUANE PARK**  
**HEAD QUARTERS**

Consultant Approval Box Only		
Designed by/Concept par <b>G.QUINSEY</b>		
Drawn by/Dessiné par <b>B.HOEFS</b>		
PWSC Project Manager/Administrateur de Projets TFSC <b>STEPHANE CLAVEL</b>		
PWSC Regional Manager, Architectural and Engineering Services/ Gestionnaire régional, Services d'architecture et de génie, TFSC <b>PREETIPAL PAUL</b>		
Drawing title/Titre du dessin		

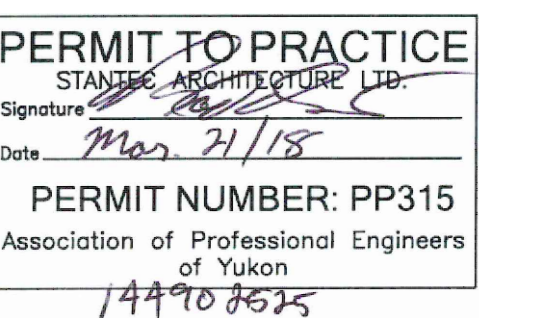
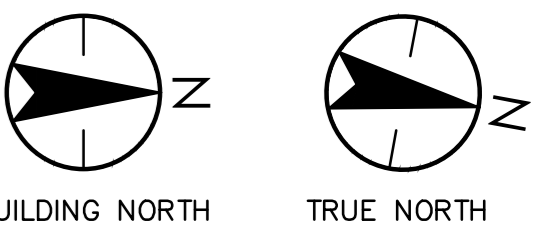
# LEGENDS & SITE PLAN

Project No./No. du projet <b>R.075647.001</b>	Sheet/Feuille <b>M-101</b> 1 of 6	Revision no./ La Révision no. <b>0</b>
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Revision	Description	Date
0	ISSUED FOR TENDER	18/03/21

Client/Client

**PARKS CANADA  
HAINES JUNCTION, Y.T.**

Project title/Titre du projet

**TRADES BUILDING  
KLUANE PARK  
HEAD QUARTERS**

Consultant Approval Box Only

Designed by/Concept par  
**G.QUINSEY**

Drawn by/Dessiné par  
**B.HOEFS**

PWSC Project Manager/Administrateur de Projets TPSC  
**STEPHANE CLAVEL**

PWSC Regional Manager, Architectural and Engineering Services/  
Gestionnaire régional, Services d'architecture et de génie, TPSC  
**PREETIPAL PAUL**

Drawing title/Titre du dessin

**HEATING & FIRE  
PROTECTION  
PLAN**

Project No./No. du projet

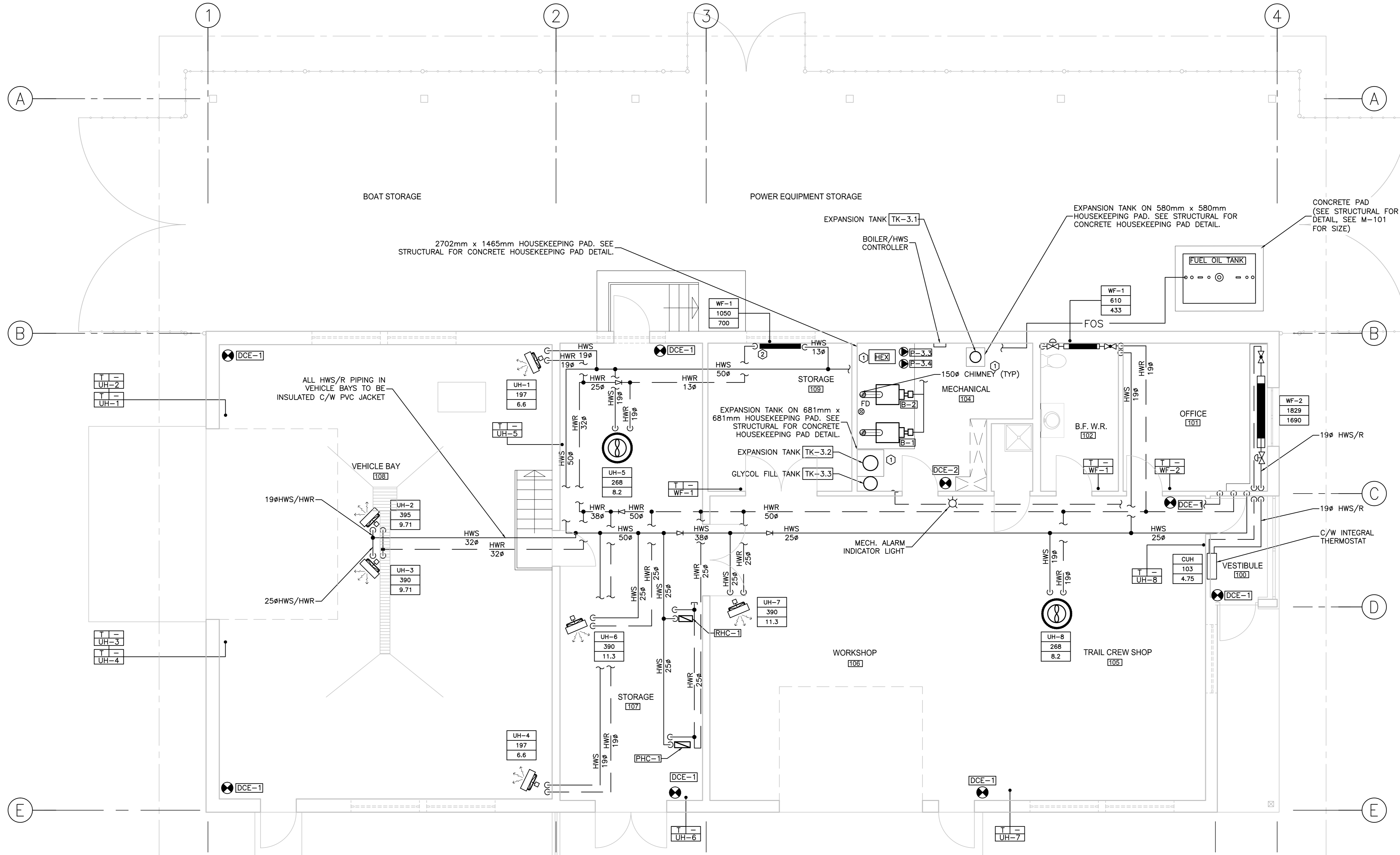
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**R.075647.001**

**M-102**

**2 OF 6**

**0**



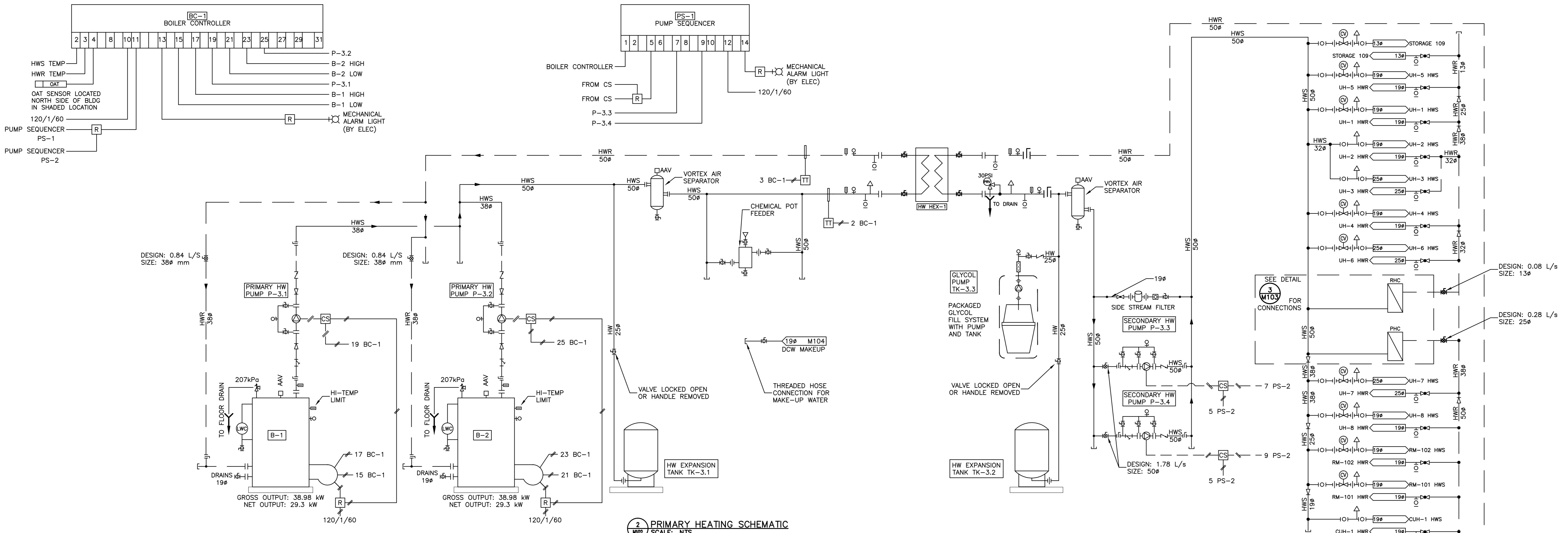
**1 HEATING & FIRE PROTECTION PLAN**  
SCALE: 1:50

GENERAL NOTES:

1. HOUSEKEEPING PAD DETAILS PER STRUCTURAL.
2. CONTROLS CONTRACTOR TO PROVIDE BOILER CONTROLLER SET-UP FOR 2 BOILERS AND 2 PRIMARY PUMPS.

KEY NOTES:

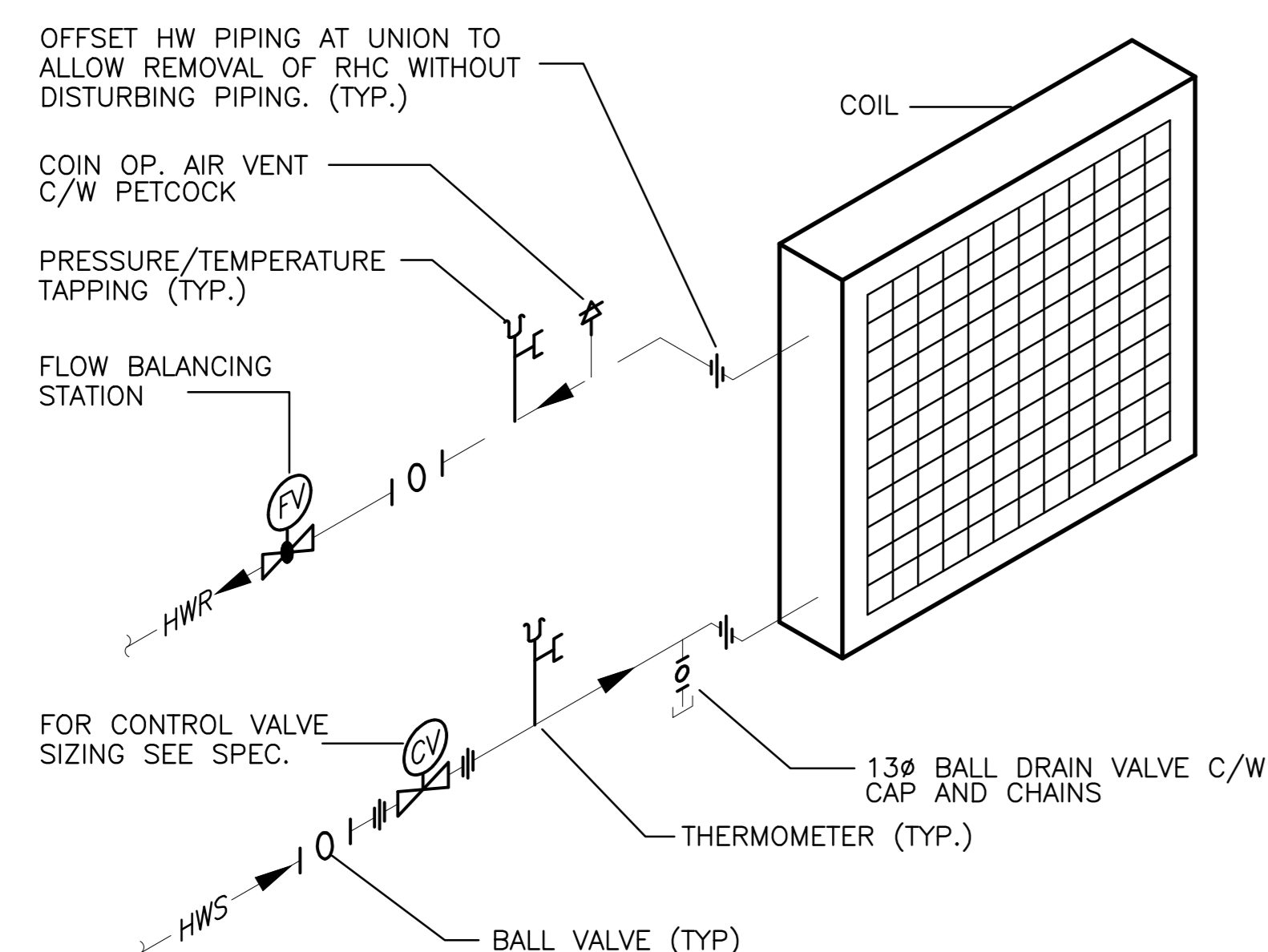
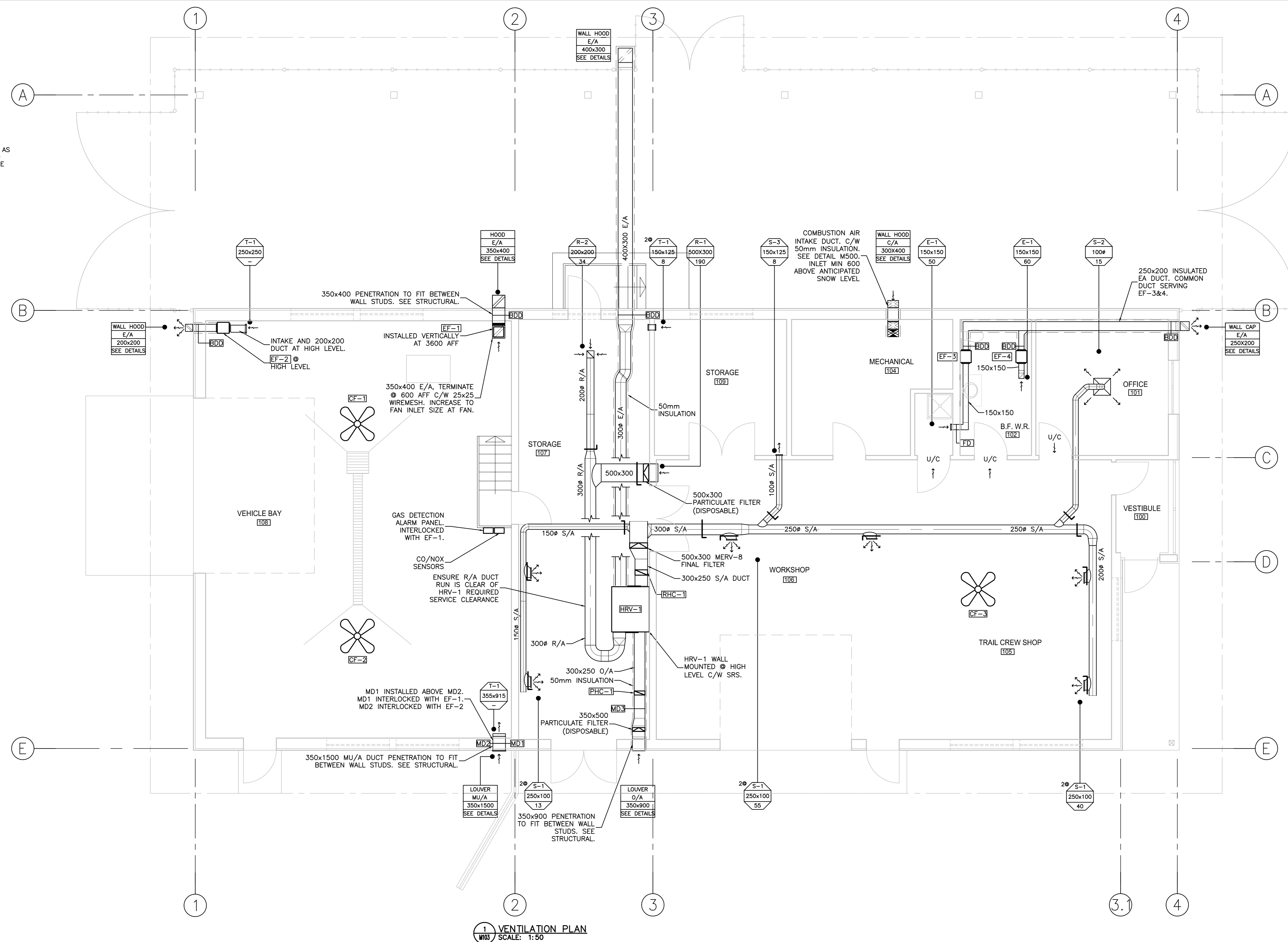
1. NOMINAL PAD SIZE: AS NOTED. PROVIDE 150mm CLEARANCE PAST EQUIPMENT FOOT PRINT ON ALL SIDES PER CSA B139 AND AS REQUIRED PER MANUFACTURER AND SEISMIC ENGINEER'S REQUIREMENTS
2. INSTALL BASEBOARD DIRECTLY BELOW WINDOW.



**2 PRIMARY HEATING SCHEMATIC**  
SCALE: NTS

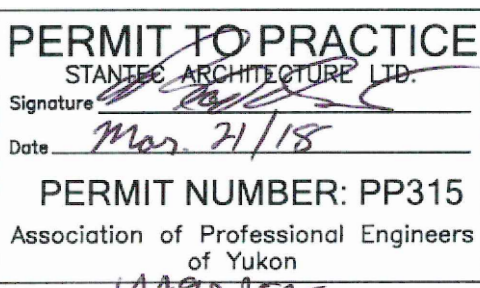
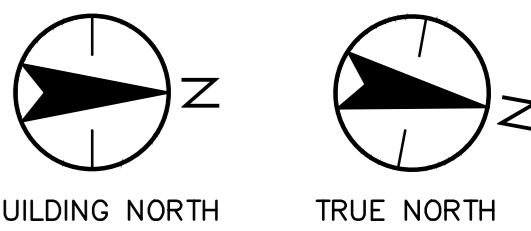


1. ALL DUCTWORK TO BE INSTALLED AT HIGH LEVEL. AS CLOSE AS PRACTICABLE TO CEILING SPACE TO MAXIMIZE INTERIOR WORKING ROOM.





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PWSC Project Manager/Administrateur de Projets TPSC

STEPHANE CLAVEL

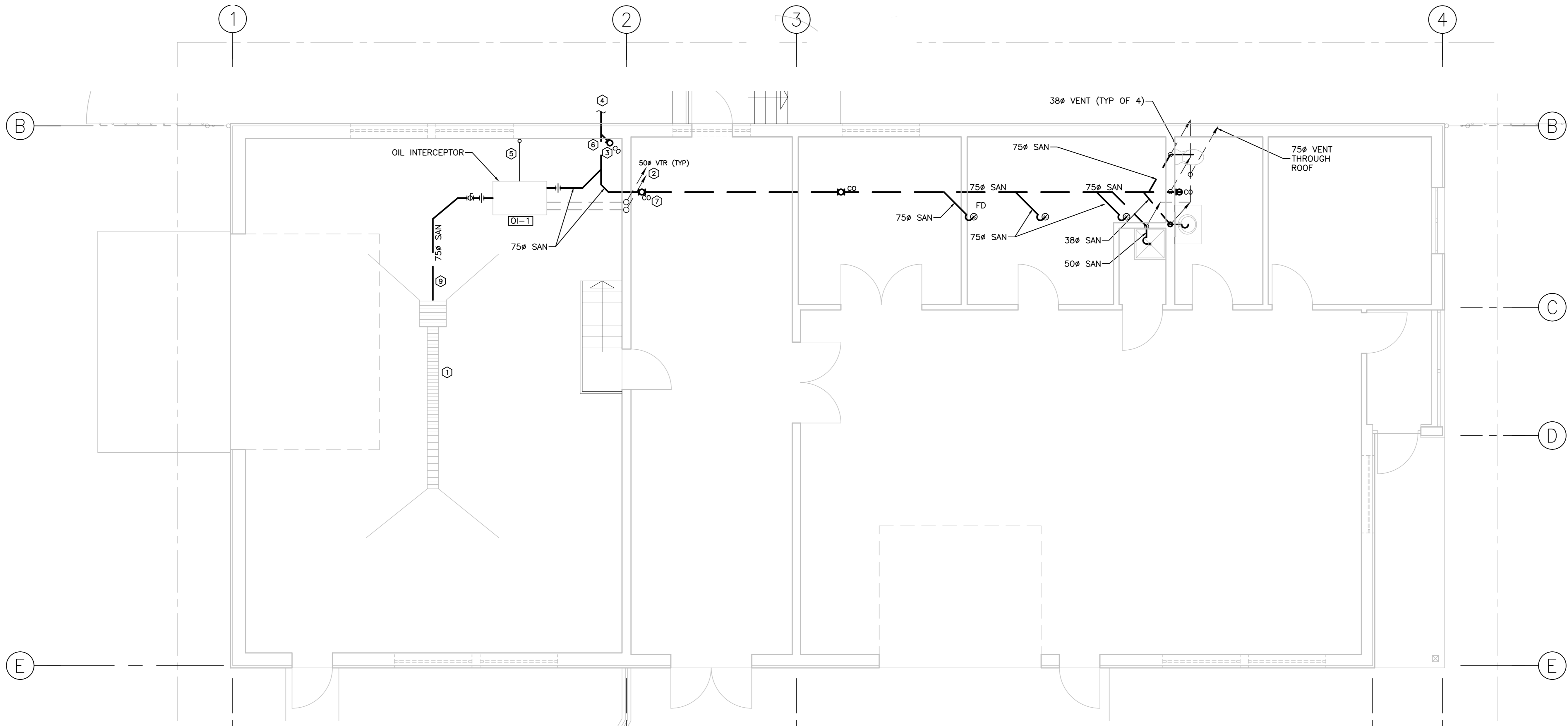
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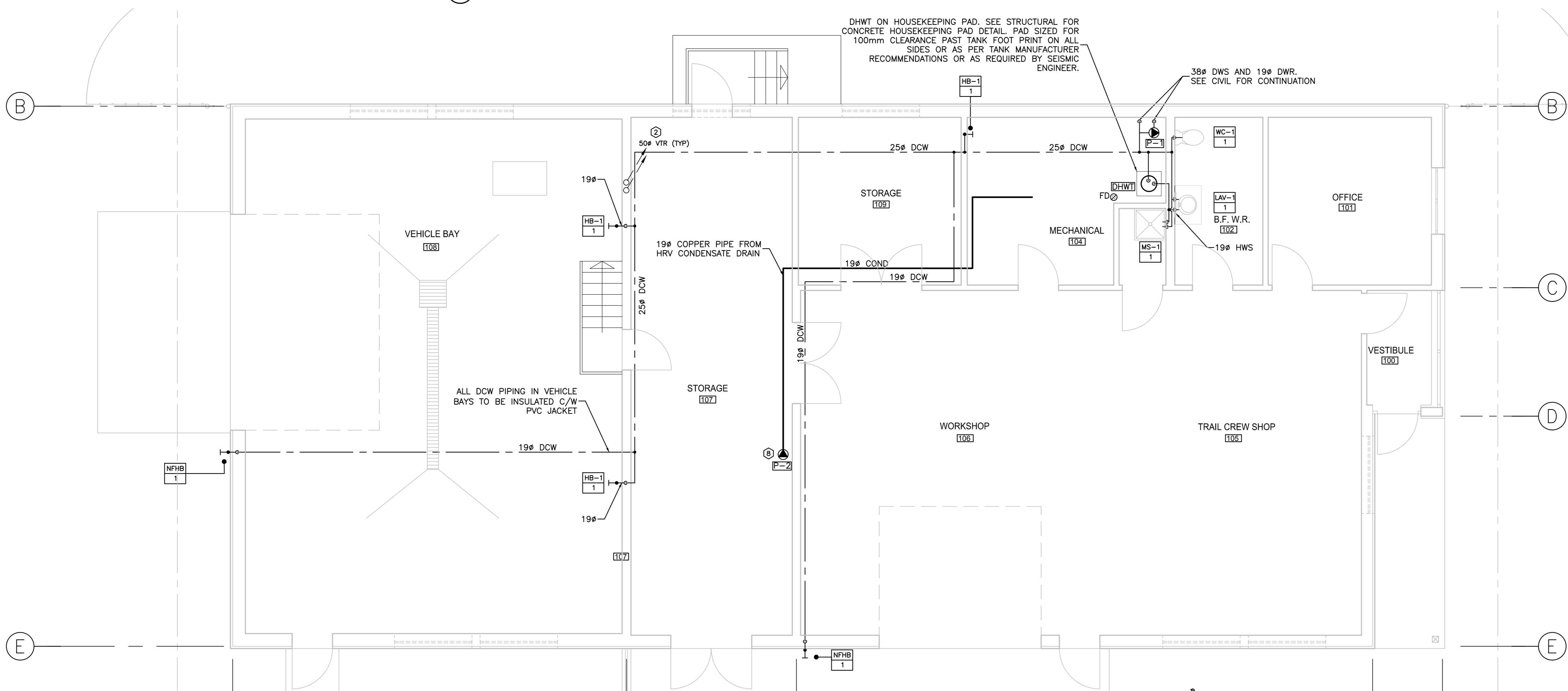
Drawing title/Titre du dessin

PLUMBING & DRAINAGE  
PLAN

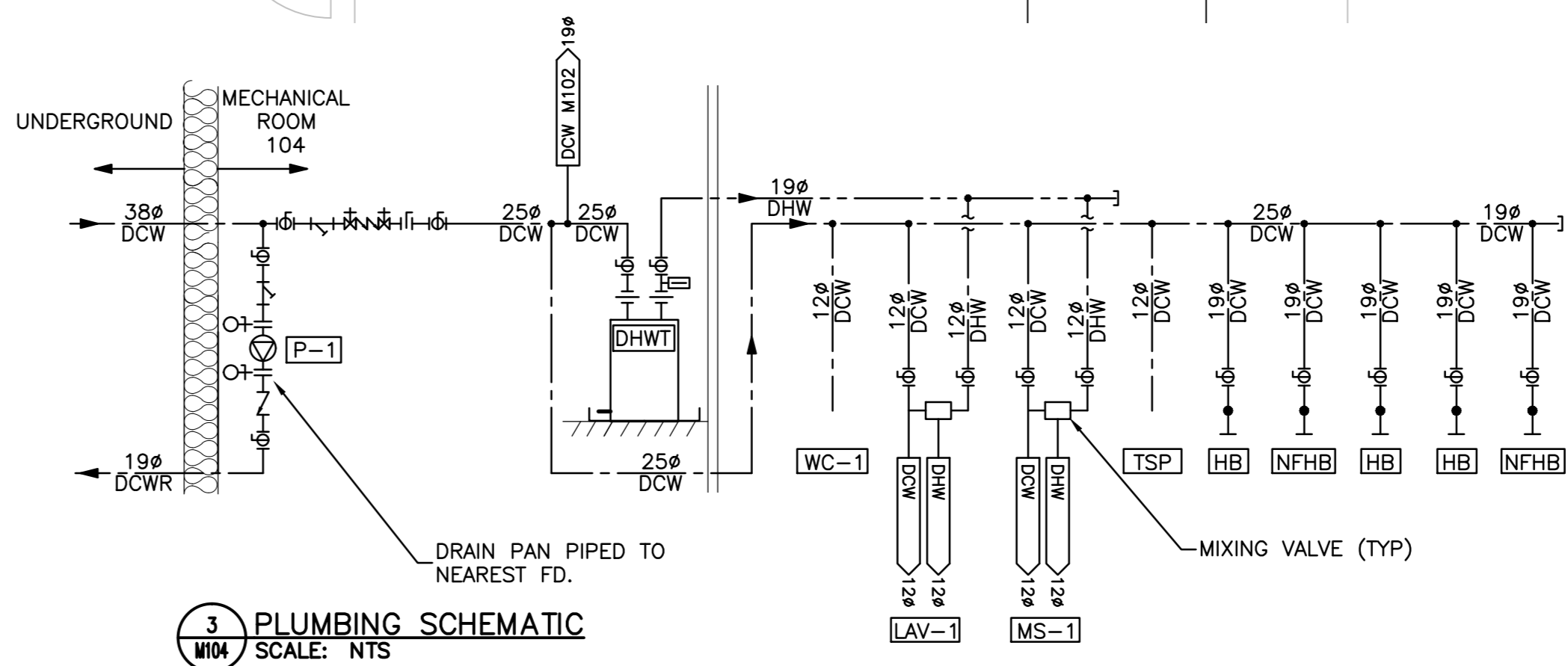
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R.075647.001	M-104 4 OF 6	0



1 DRAINAGE PLAN - BELOW SLAB  
SCALE: 1:50



2 PLUMBING PLAN - MAIN LEVEL  
SCALE: 1:50



3 PLUMBING SCHEMATIC  
SCALE: NTS

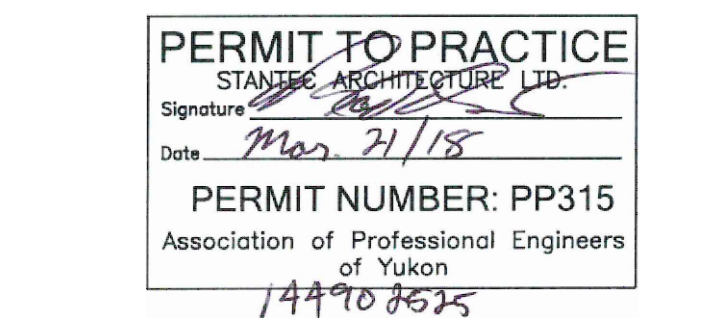
KEYNOTES:

- 1 TRENCH DRAIN AND CATCH BASIN BY STRUCTURAL PER S-101.
- 2 RUN TWO 50# OIL INTERCEPTOR VENTS SEPARATELY, TERMINATE ABOVE ROOF C/W ELBOWS DOWN AND WITH ELEVATION DIFFERENCE OF 300mm.
- 3 100# BUILDING CLEAN-OUT.
- 4 CONNECT TO 100# SANITARY SERVICE LINE BY CIVIL.
- 5 PROVIDE 3/8" CONTROL CONDUIT FROM OIL INTERCEPTOR TO DISPLAY BOX.
- 6 VERTICAL DROP:  
INV: 850 TO TOP OF SLAB TO  
INV: 2500 TO TOP OF SLAB.
- 7 VERTICAL DROP:  
INV: 900 TO TOP OF SLAB NORTH OF G/L2 TO  
INV: 800 TO TOP OF SLAB SOUTH OF G/L2.
- 8 CONDENSATE PUMP P-2 INSTALLED ON BRACKET BELOW HRV, DIRECT 1/2" CONDENSATE DRAIN LINE TO FLOOR DRAIN IN BOILER ROOM.
- 9 TIE IN DRAIN LINE W/ INV: 100MM ABOVE BOTTOM OF SUMP.



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HAINES JUNCTION, Y.T.

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KLUANE PARK  
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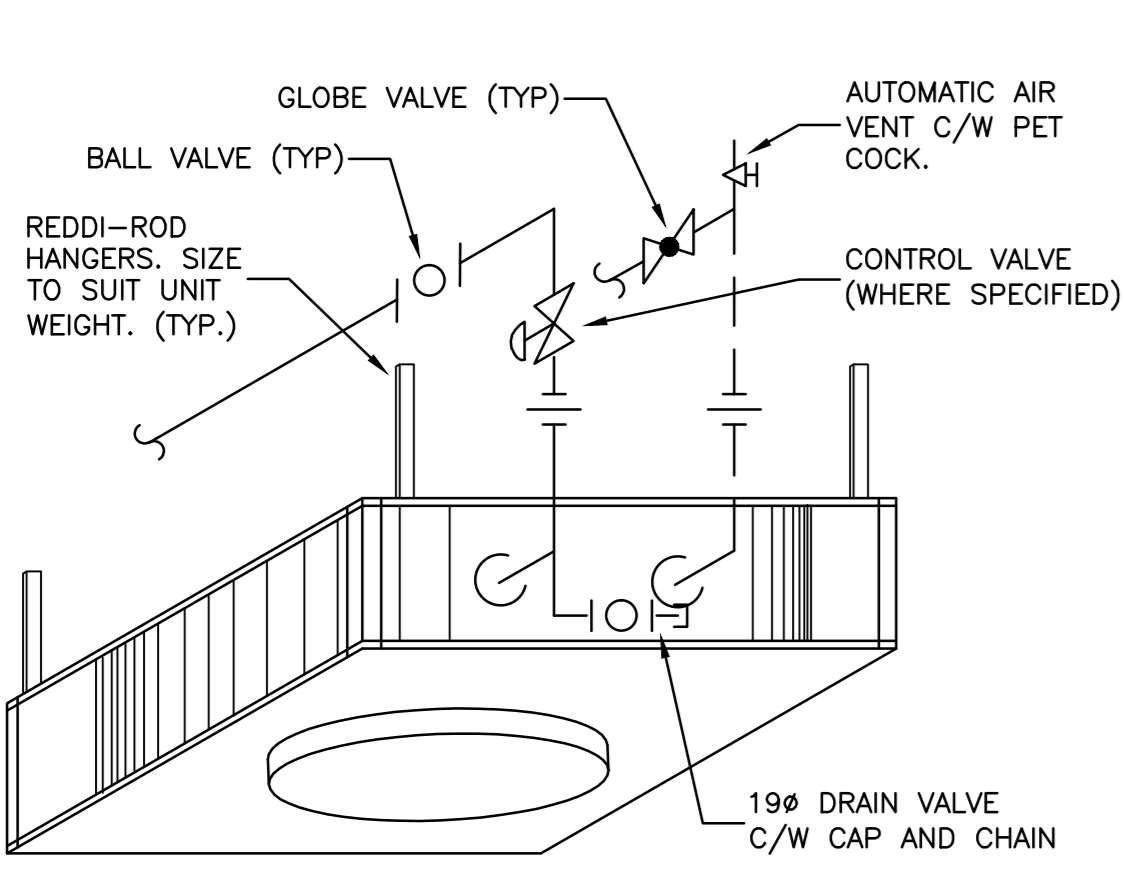
DETAILS & SCHEMATICS

Project No./No. du projet  
**R.075647.001**

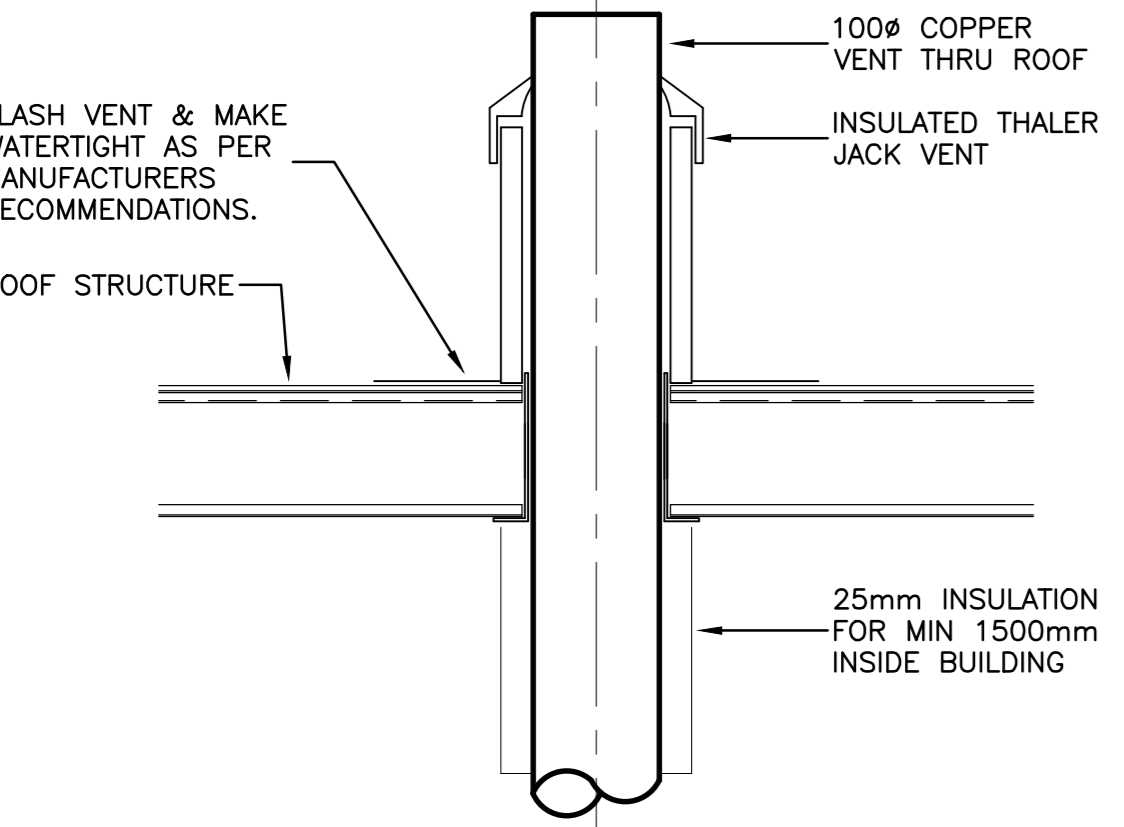
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**M-500**

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no.

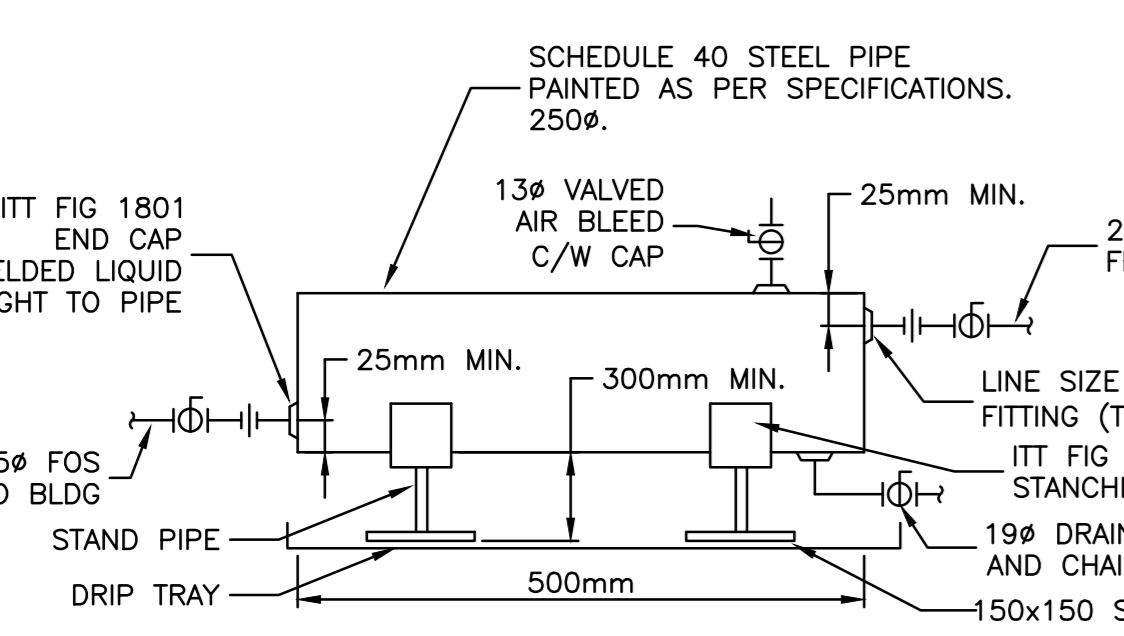
**5 OF 6**



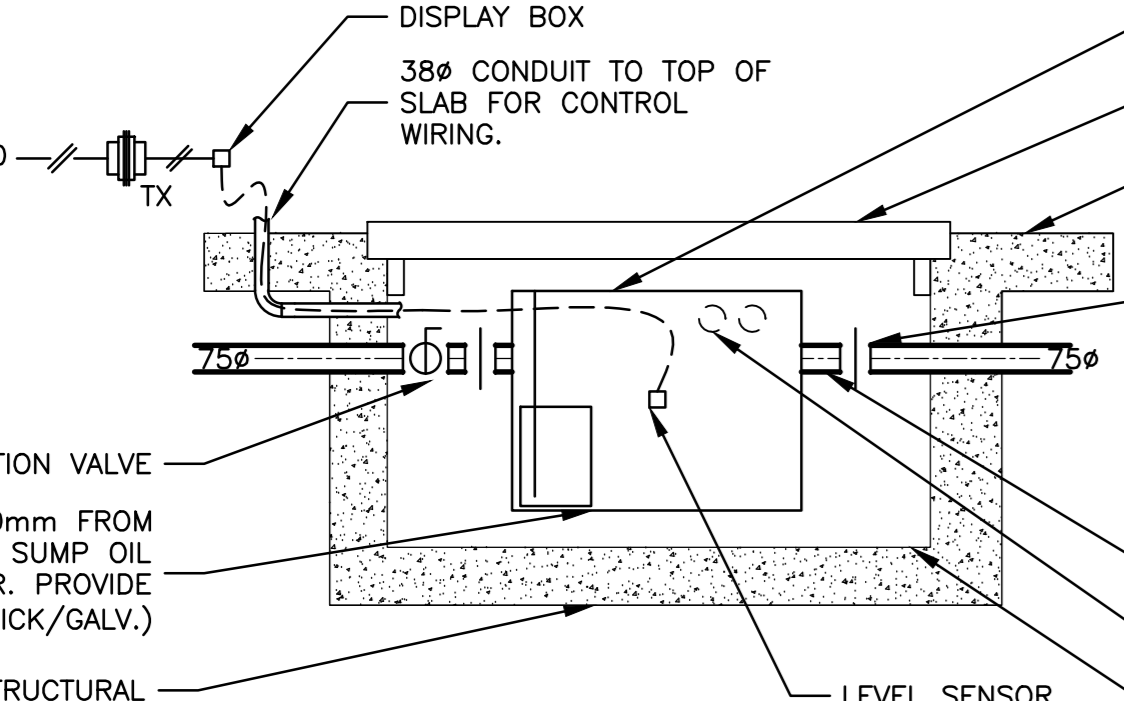
1 VERTICAL UNIT HEATER DETAIL  
SCALE: NTS



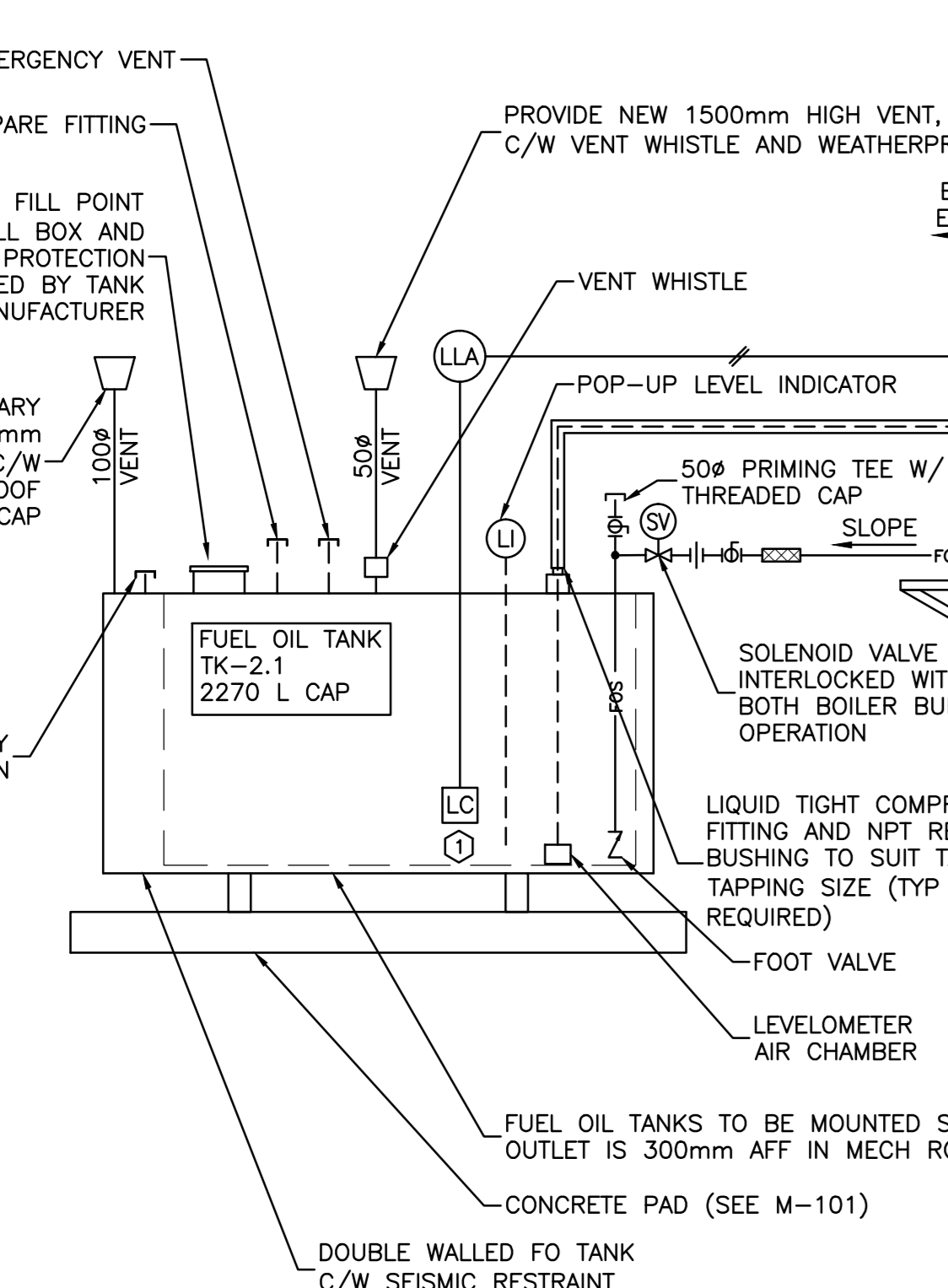
7 VENT THROUGH ROOF DETAIL  
SCALE: NTS



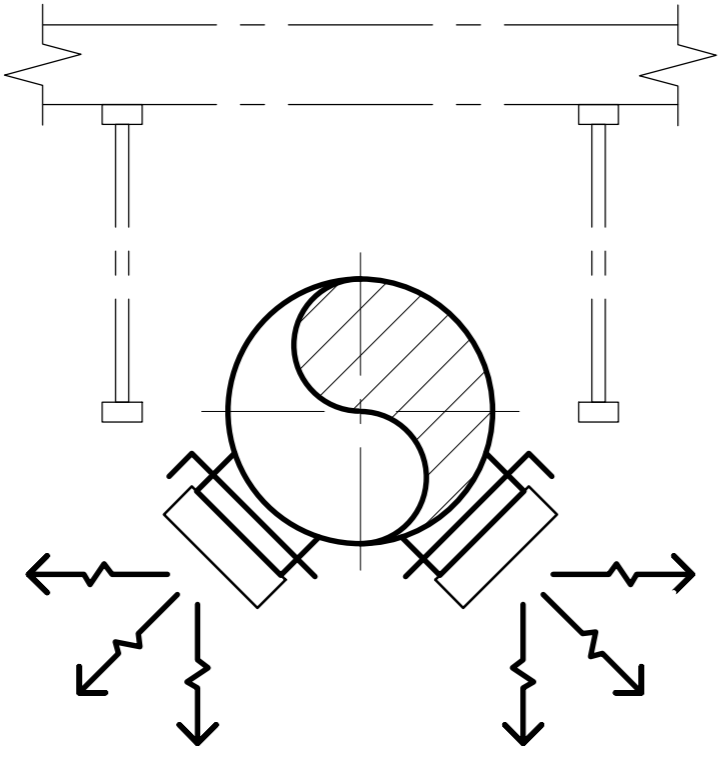
12 OIL WARMER PIPE DETAIL  
SCALE: NTS



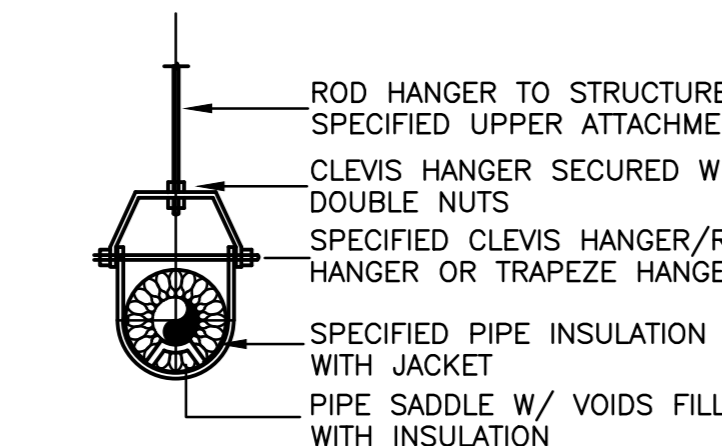
17 OIL INTERCEPTOR DETAIL  
SCALE: NTS



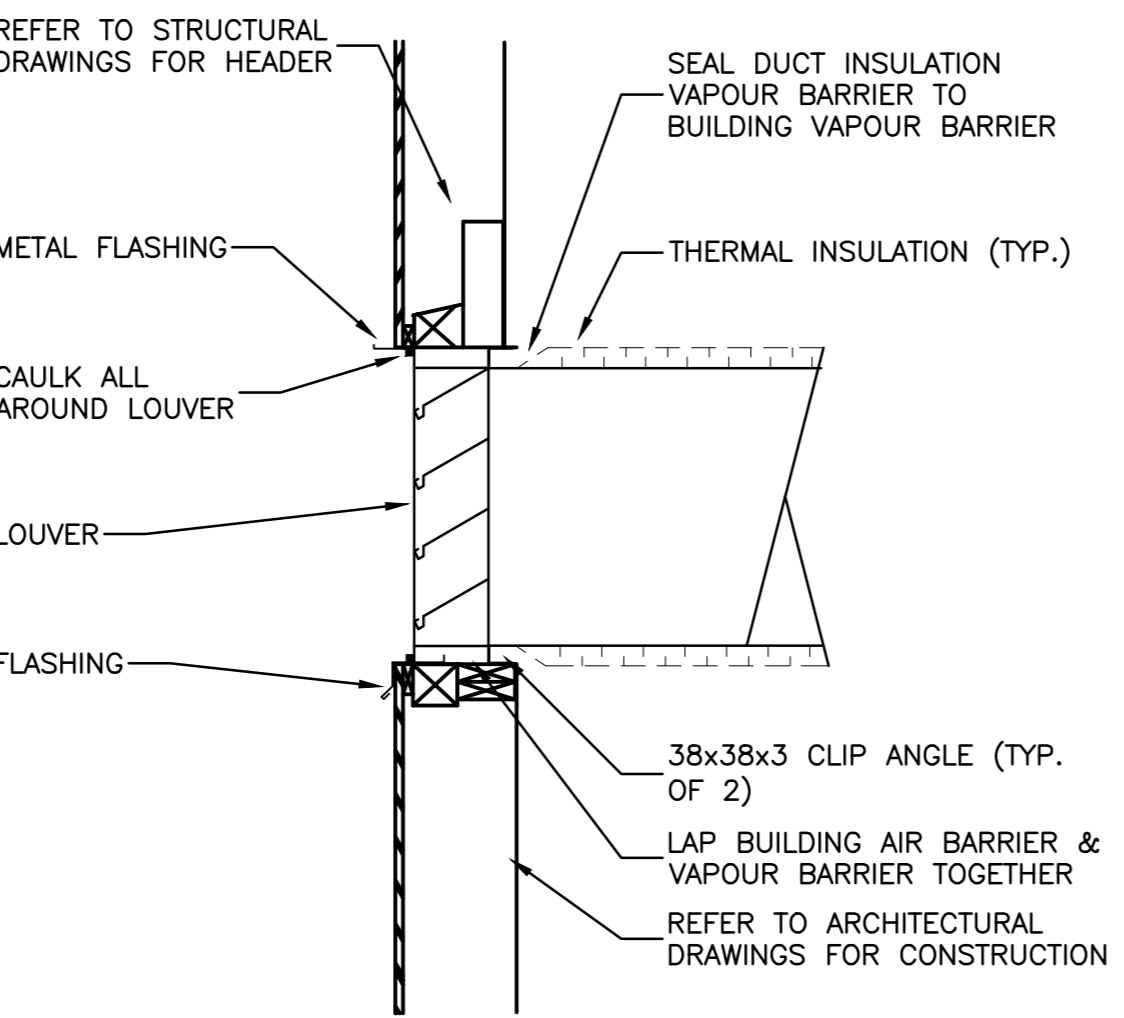
18 FUEL OIL SCHEMATIC  
SCALE: NTS



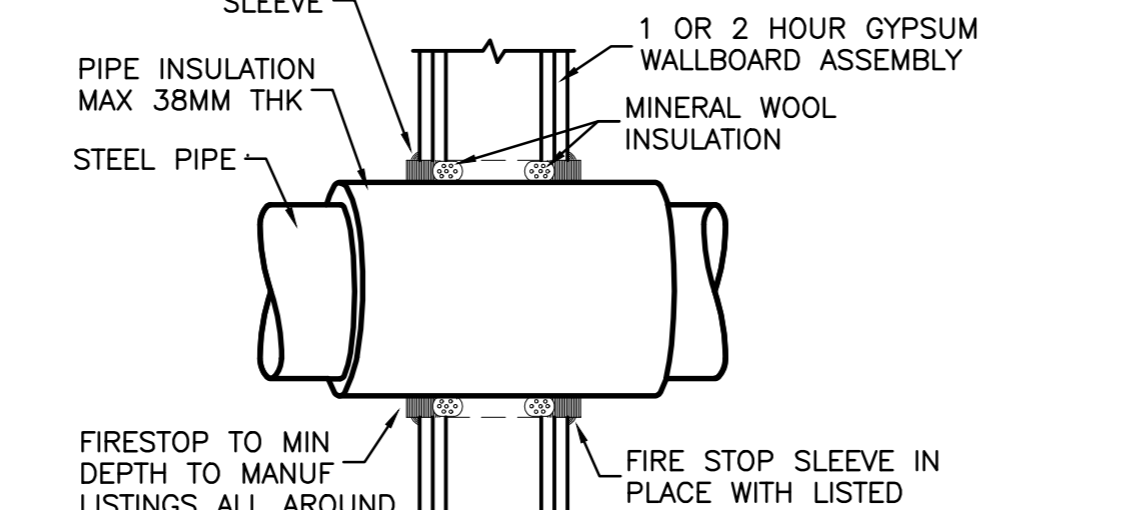
2 DUCT DIFFUSER DETAIL  
SCALE: NTS



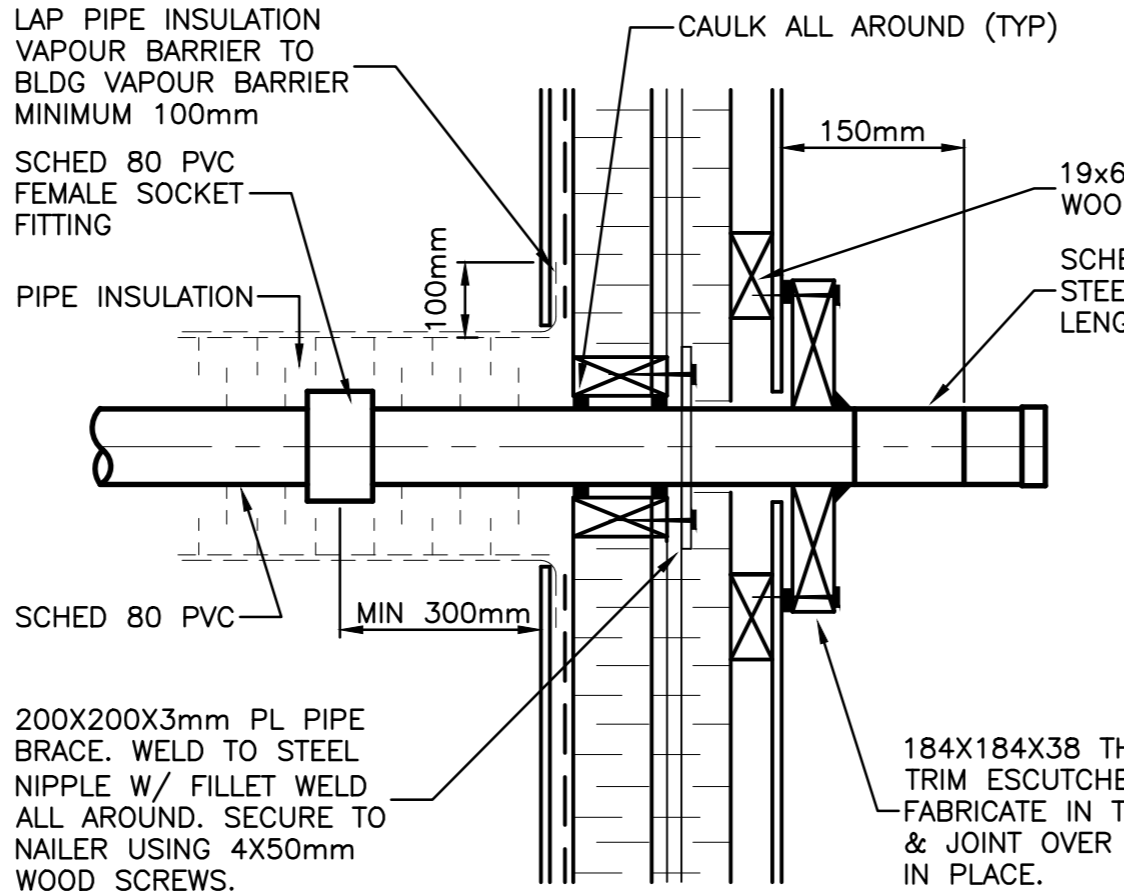
8 PIPE HANGER DETAIL  
SCALE: NTS



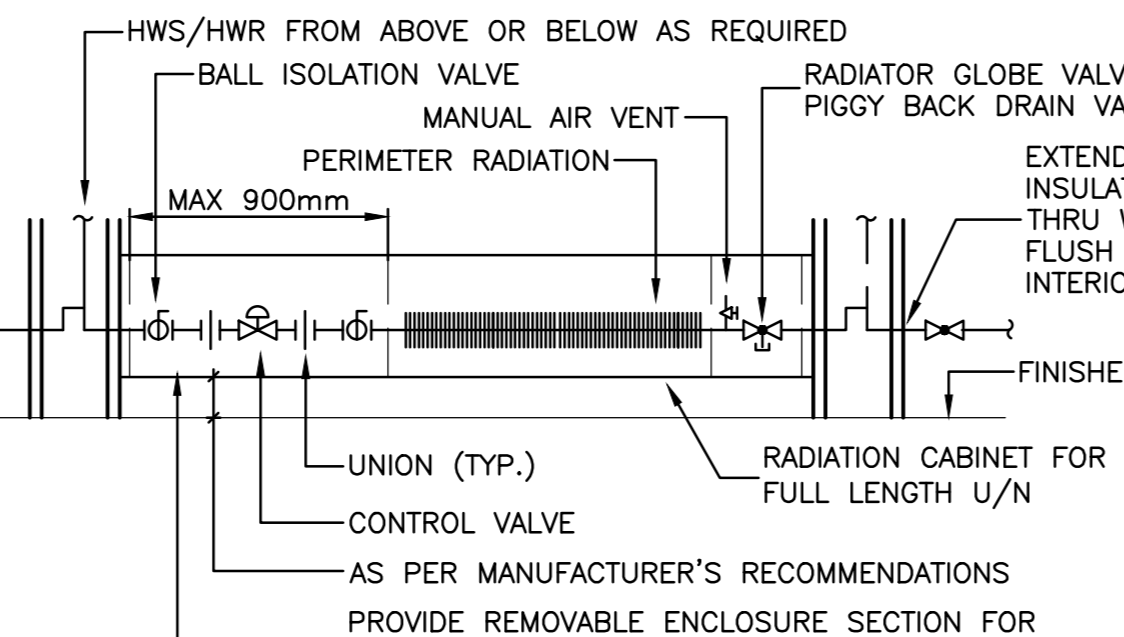
3 WALL LOUVER DETAIL  
SCALE: NTS



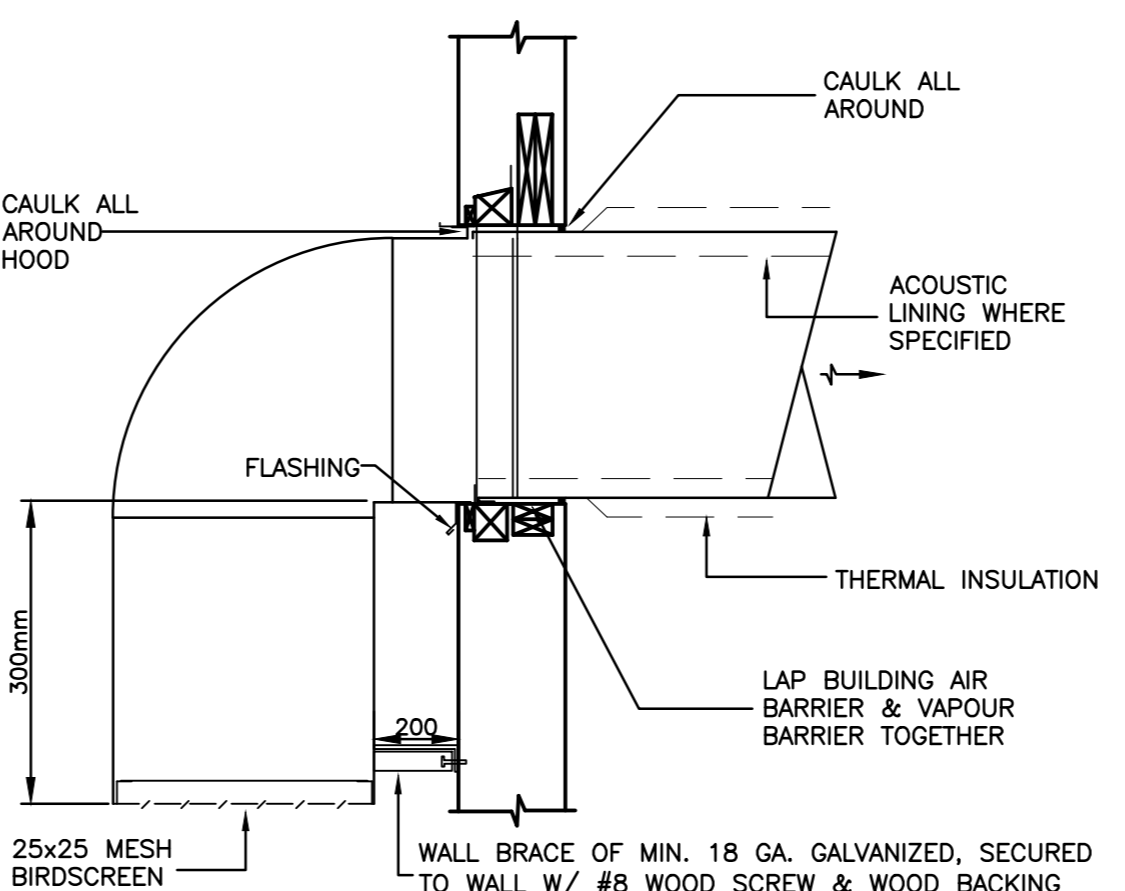
9 METALLIC PIPE FIRE STOP DETAIL  
SCALE: NTS



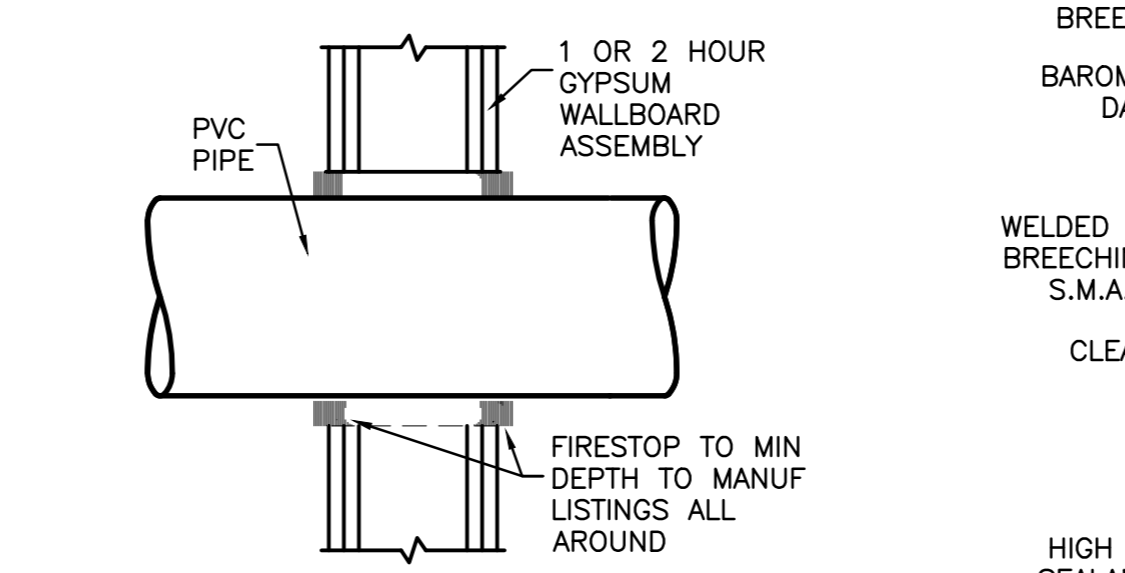
13 EXTERIOR WALL PIPE PENETRATION DETAIL  
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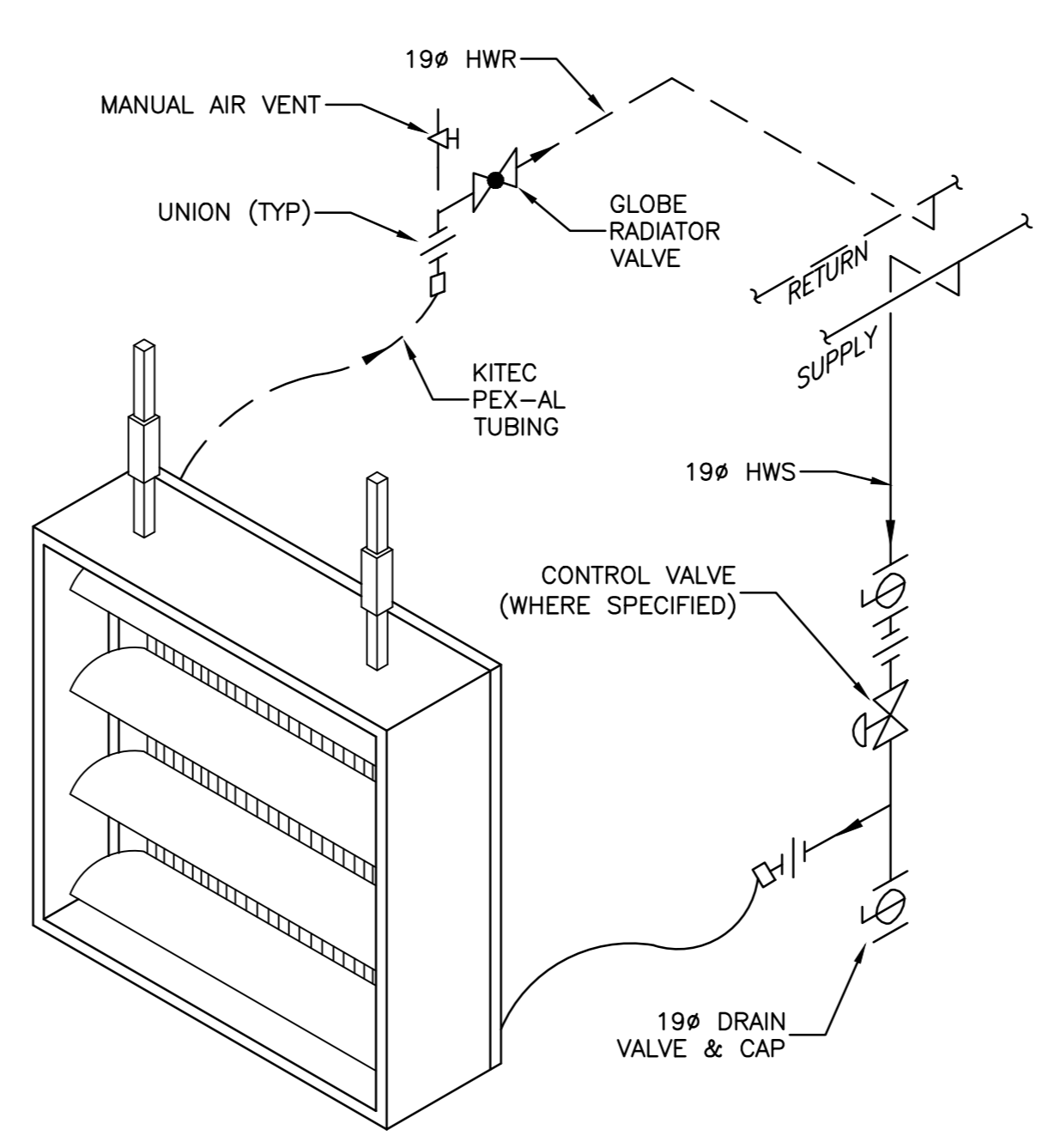
14 RADIATOR DETAIL  
SCALE: NTS



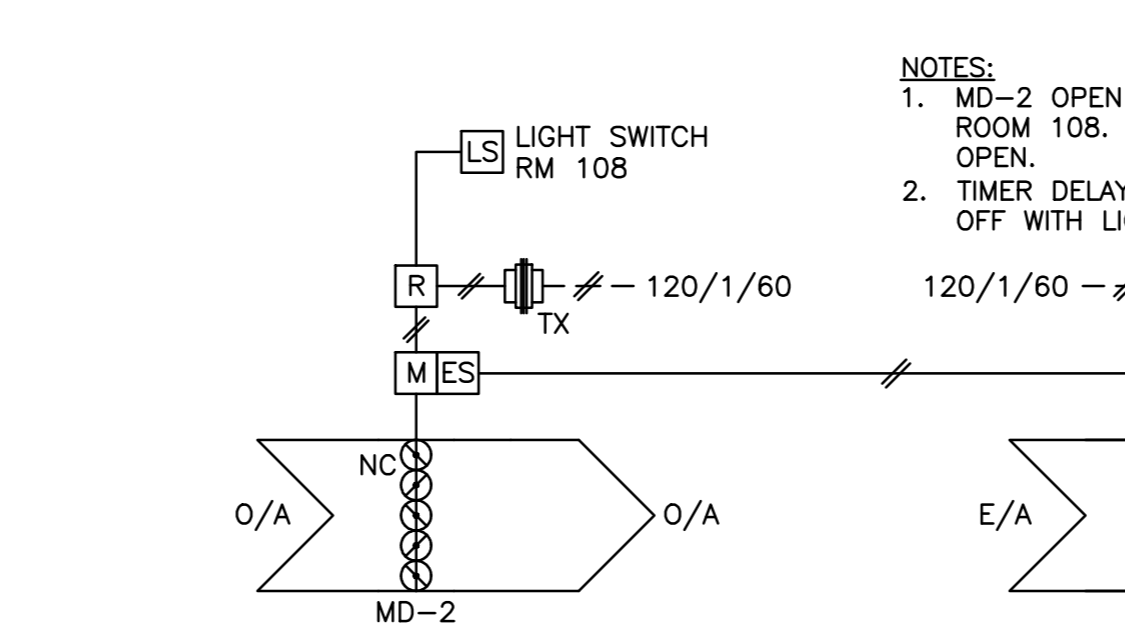
4 WALL HOOD DETAIL  
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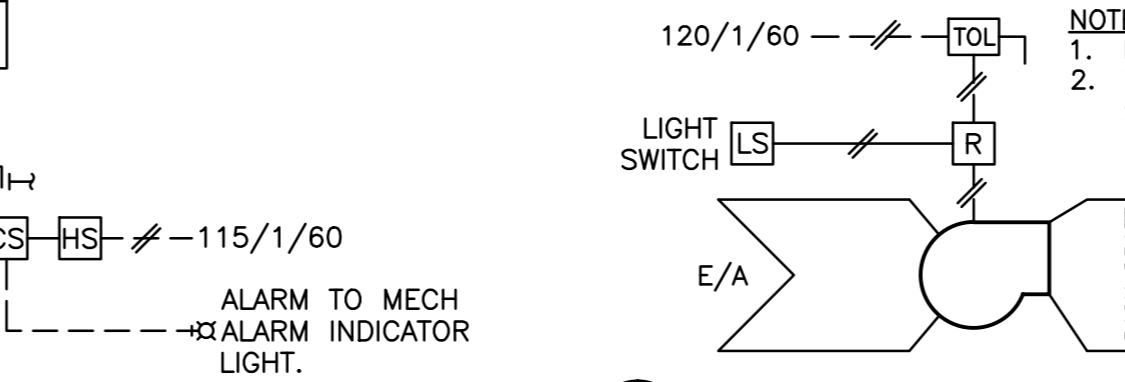
10 PVC 50# AND SMALLER FIRE STOP DETAIL  
SCALE: NTS



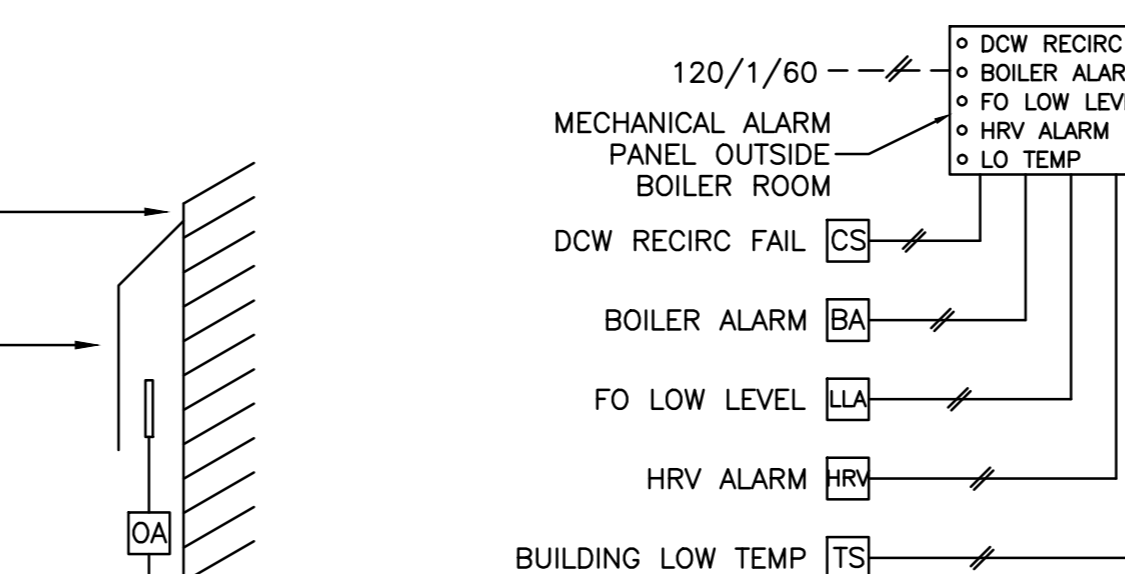
15 UNIT HEATER DETAIL  
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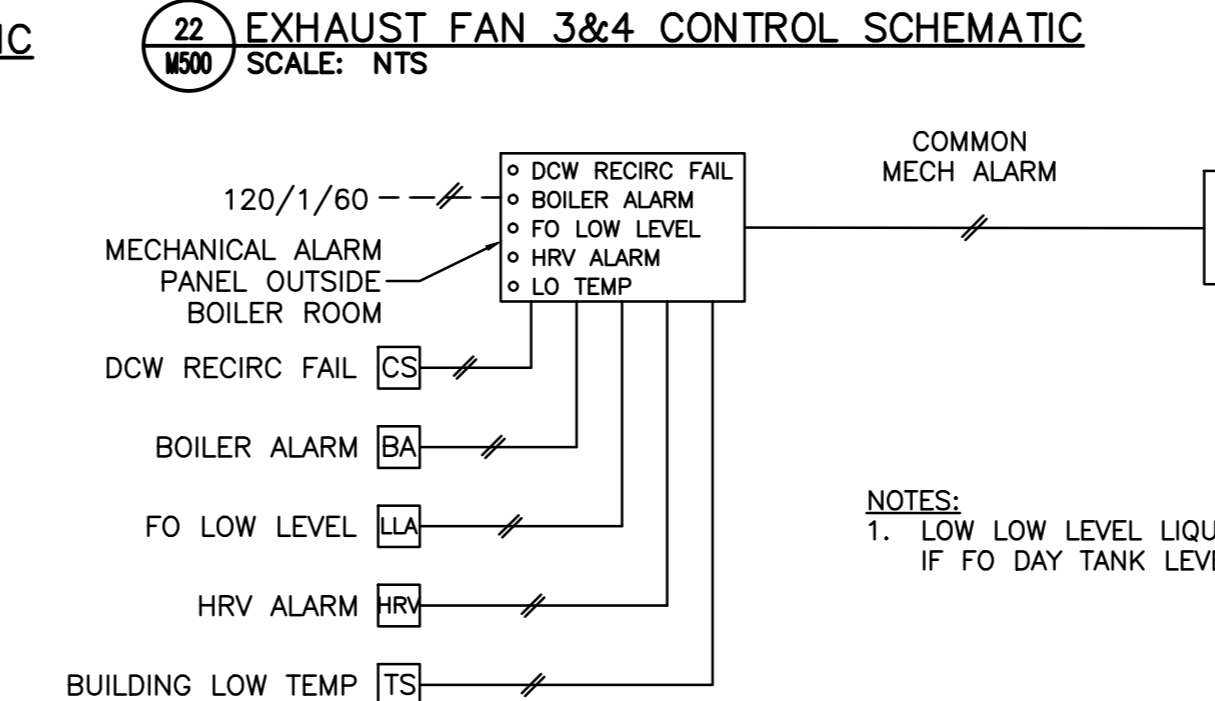
19 EF-2 CONTROL SCHEMATIC  
SCALE: NTS



21 DCW CIRC PUMP CONTROL SCHEMATIC  
SCALE: NTS



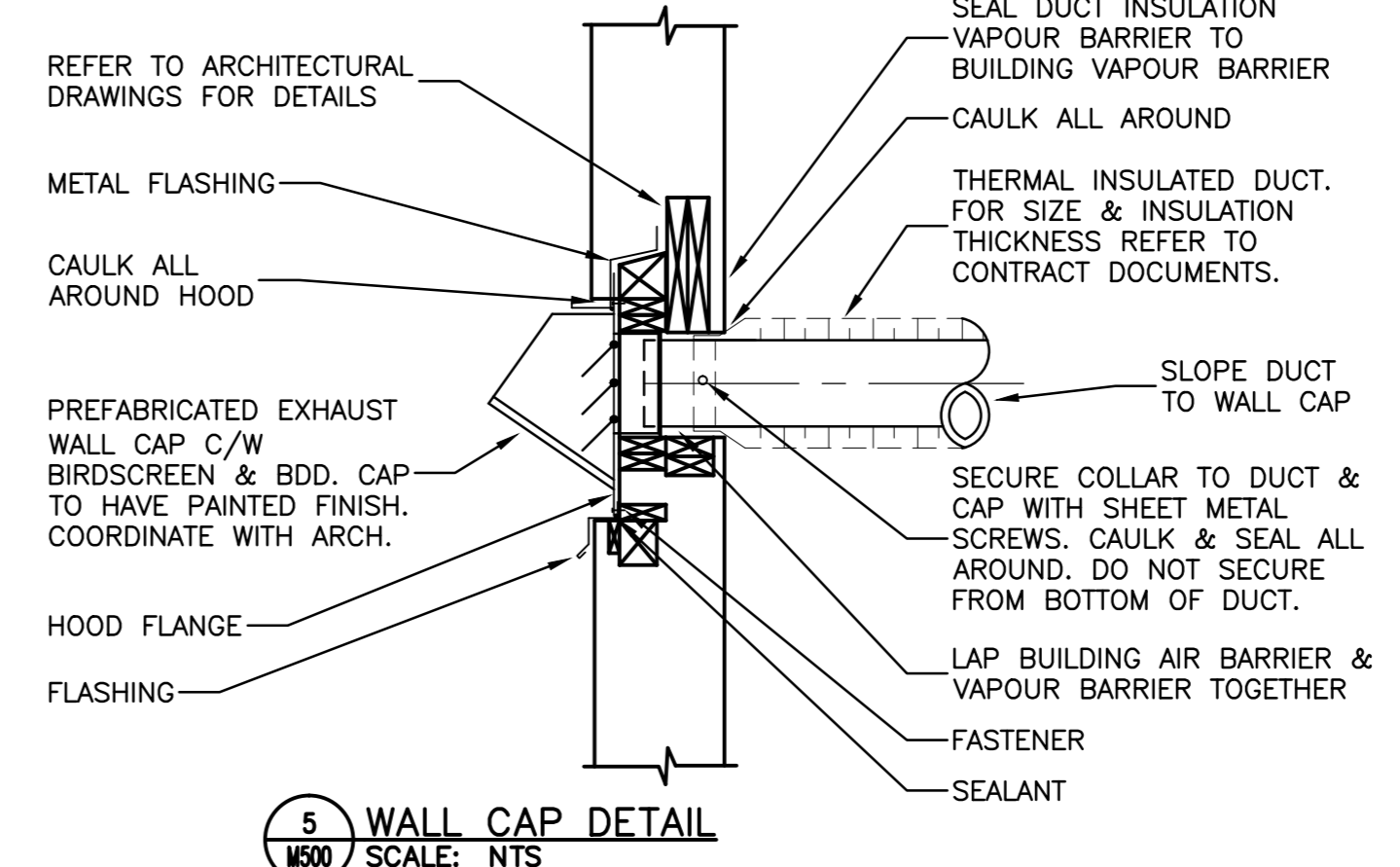
23 BUILDING O/A SENSOR DETAIL  
SCALE: NTS



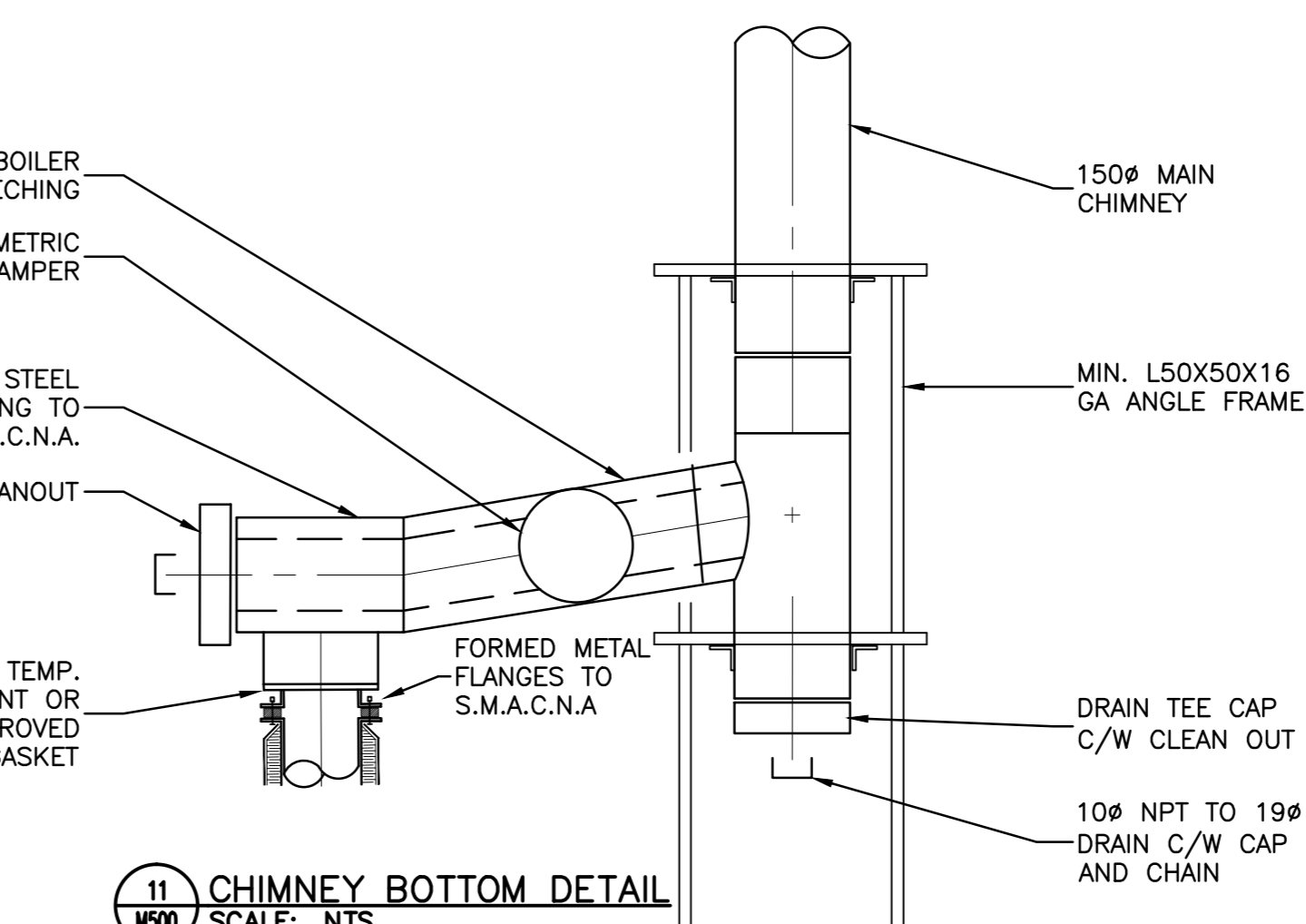
22 EXHAUST FAN 3&4 CONTROL SCHEMATIC  
SCALE: NTS



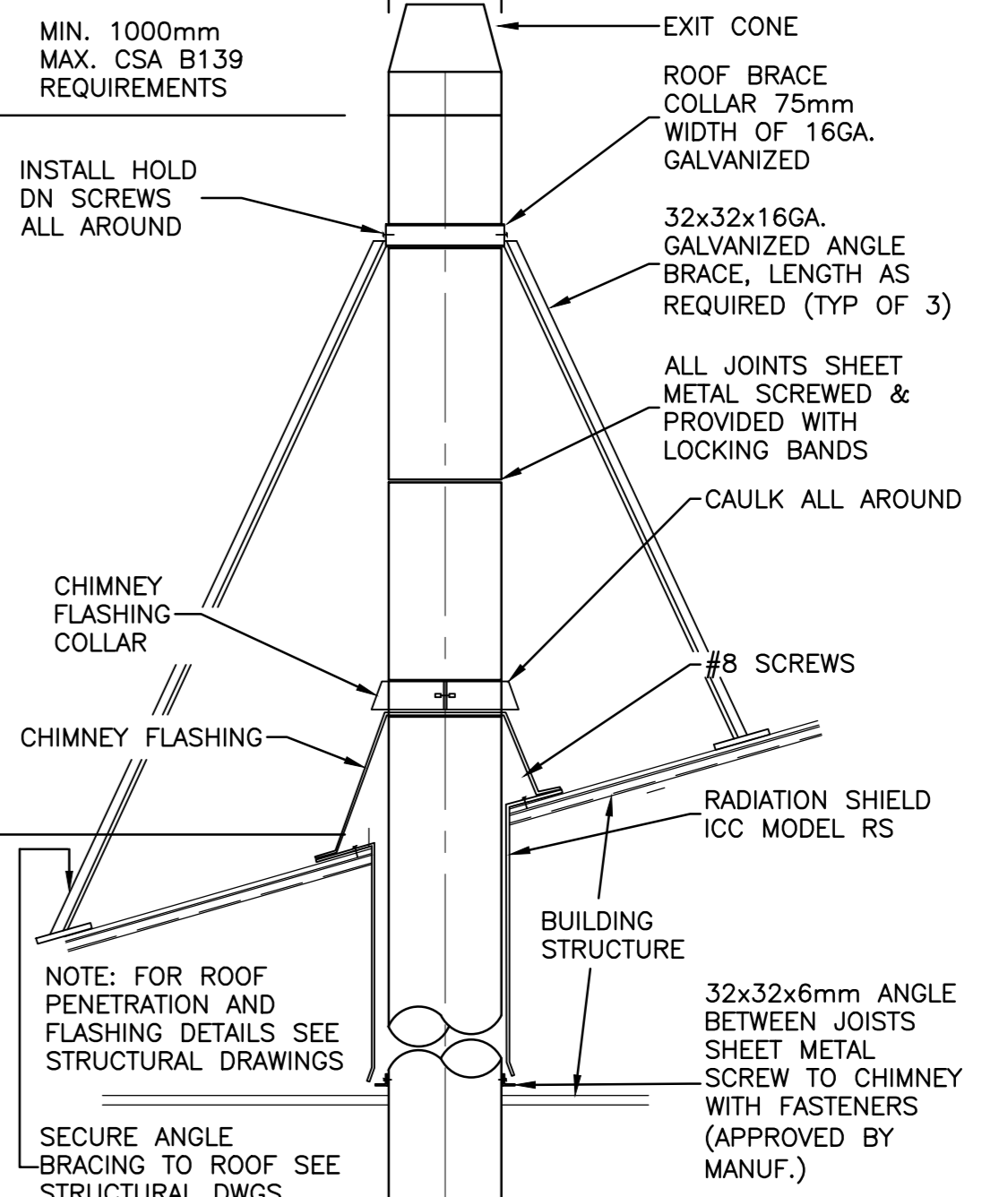
24 BUILDING ALARM SCHEMATIC  
SCALE: NTS



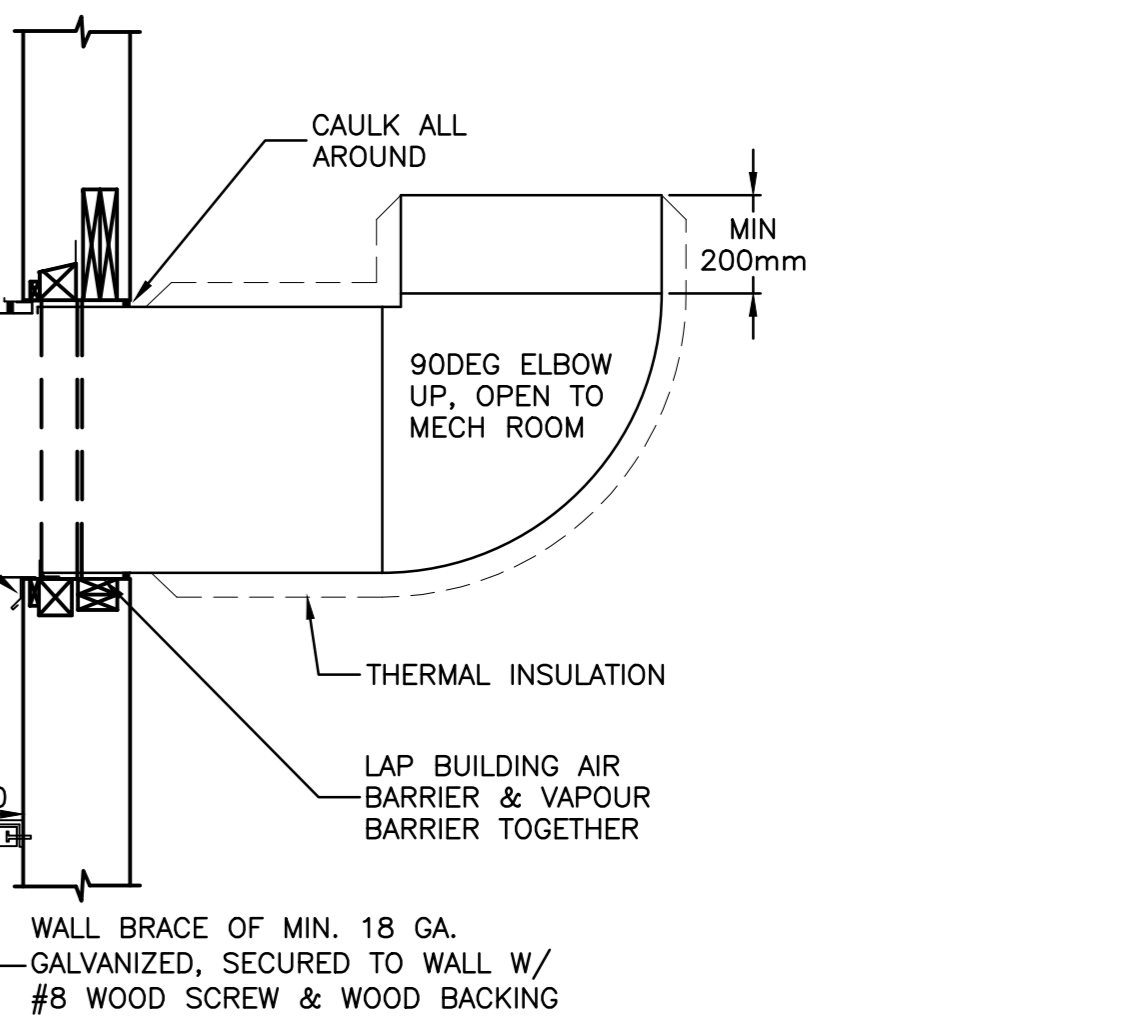
5 WALL CAP DETAIL  
SCALE: NTS



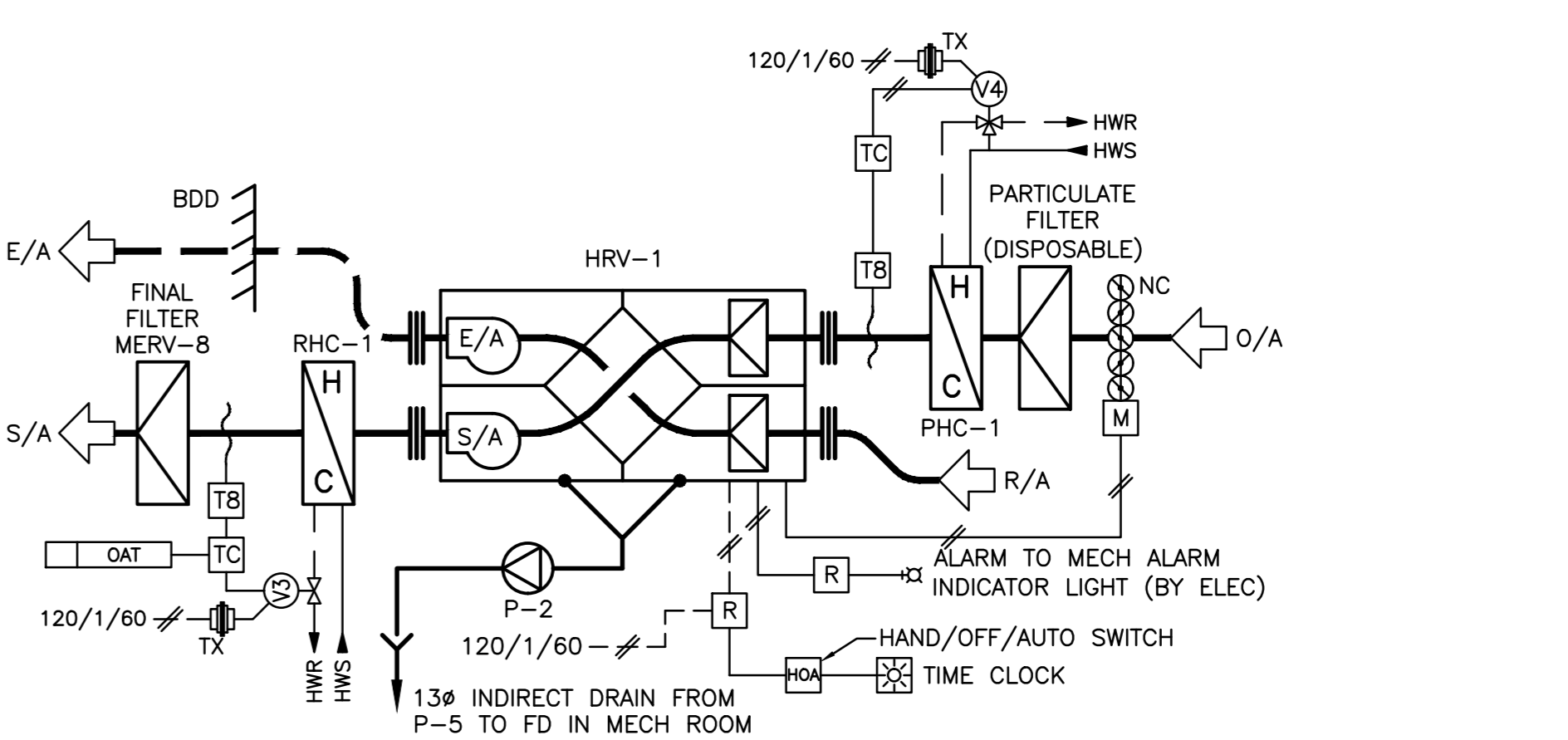
11 CHIMNEY BOTTOM DETAIL  
SCALE: NTS



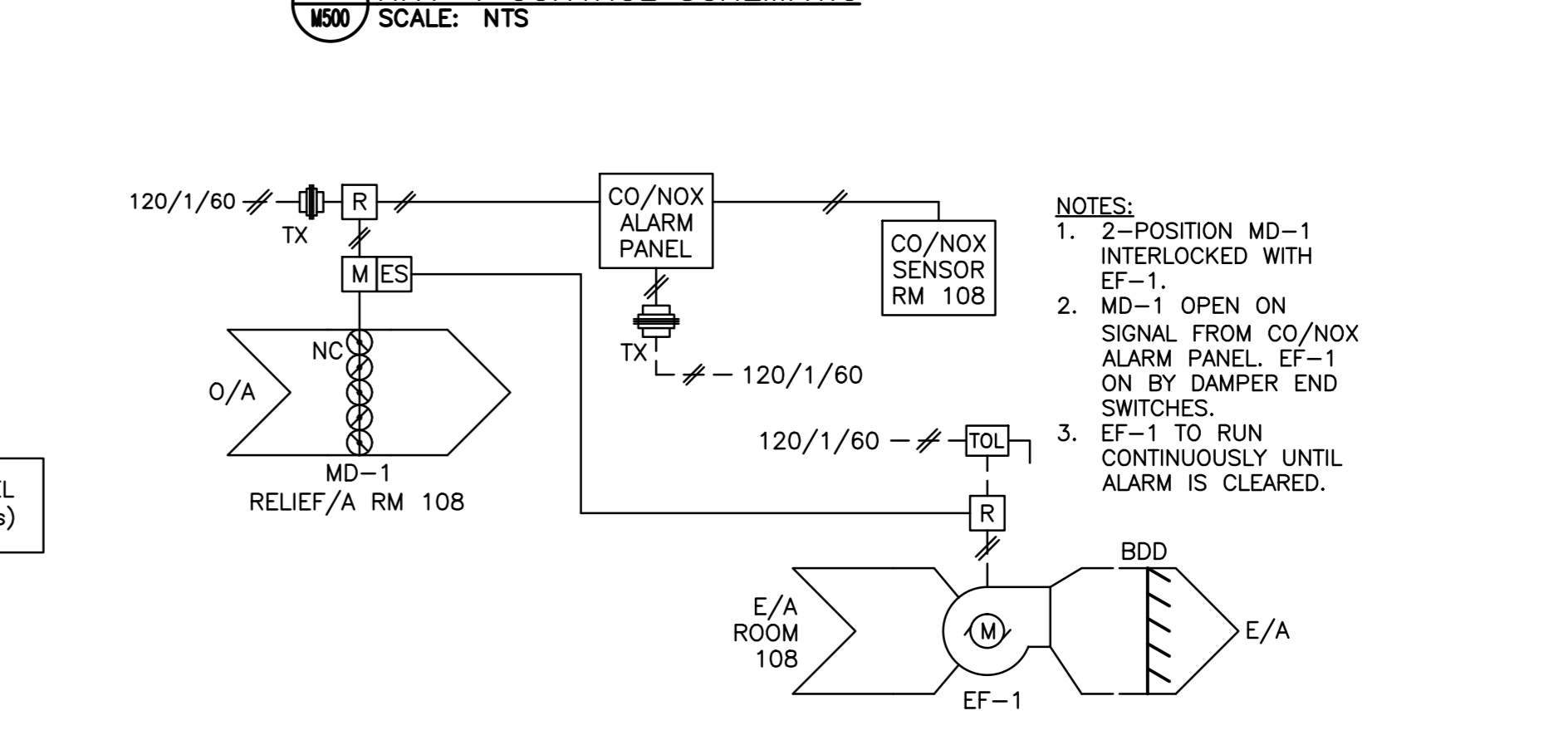
6 CHIMNEY TOP DETAIL  
SCALE: NTS



16 COMBUSTION AIR DETAIL  
SCALE: NTS



20 HRV-1 CONTROL SCHEMATIC  
SCALE: NTS



25 EF-1 CONTROL SCHEMATIC  
SCALE: NTS



FAN SCHEDULE											
FAN No.	SERVICE	LOCATION	MANUFACTURER	MODEL No.	AIR FLOW (L/s)	EXTERNAL STATIC PRESS. (Pa)	MOTOR (Hp)	FAN RPM	ELECTRICAL (V/Ph/Hz)	MOUNTING ARR'GT	REMARKS
EF-1	EMERGENCY EXHAUST AIR	VEHICLE BAY 2	—	—	368	222	3/4	2200	115/1/60	INLINE	EG: GREENHECK, SQ-98-VG
EF-2	EXHAUST AIR	VEHICLE BAY 1	—	—	100	230	1/2	2500	115/1/60	INLINE	EG: GREENHECK, SQ-97-VG
EF-3	EXHAUST AIR	JANITOR ROOM	—	—	60	47	1/6	1725	115/1/60	INLINE	EG: GREENHECK, SQ-60-VG
EF-4	EXHAUST AIR	WASHROOM	—	—	60	45	1/6	1568	115/1/60	INLINE	EG: GREENHECK, SQ-60-VG
CF-1		VEHICLE BAY 1	—	—	9635	—	.13	310	115/1/60		INDUSTRIAL CEILING FAN
CF-2		VEHICLE BAY 2	—	—	9635	—	.13	310	115/1/60		INDUSTRIAL CEILING FAN
CF-3		TRAIL CREW SHOP	—	—	6110	—	.115	320	115/1/60		INDUSTRIAL CEILING FAN

MOTORIZED DAMPER SCHEDULE					
TAG No.	DUTY	POSITION	TYPE	SIZE (W x H) (mm)	REMARKS
MD-1	O/A	2 POSITION	OPPOSED BLADE	350 x 925	INSULATED, EXTRUDED ALUMINUM FRAME AND BLADES, BLADE AND JAMB SEALS, THERMALLY BROKEN FRAME, 24V DAMPER ACTUATOR.
MD-2	O/A	2 POSITION	OPPOSED BLADE	350 x 575	INSULATED, EXTRUDED ALUMINUM FRAME AND BLADES, BLADE AND JAMB SEALS, THERMALLY BROKEN FRAME, 24V DAMPER ACTUATOR.
MD-3	O/A	2 POSITION	OPPOSED BLADE	300 X 250	INSULATED, EXTRUDED ALUMINUM FRAME AND BLADES, BLADE AND JAMB SEALS, THERMALLY BROKEN FRAME, 24V DAMPER ACTUATOR.

GRILLE, DIFFUSER, AND LOUVER SCHEDULE							
TAG No.	MANUFACTURER	MODEL No.	SIZE (mm)	SERVICE	DESCRIPTION	FINISH	REMARKS
S-1	—	—	SEE DWG	SUPPLY	SPIRAL DUCT GRILLE	B12	19mm BLADE SPACING, ADJUSTABLE DOUBLE DEFLECTION C/W BALANCING DAMPER. EG: E.H. PRICE SDGE
S-2	—	—	300x300	SUPPLY	ADJUSTABLE SQUARE CONE CEILING DIFFUSER	B12	C/W BALANCING DAMPER EG: E.H. PRICE SCDA
S-3	—	—	SEE DWG	SUPPLY	STEEL LOUVERED SUPPLY GRILLE	B12	STEEL CONSTRUCTION, ADJUSTABLE BLADES, DOUBLE DEFLECTION BLADES, & BLADES PARALLEL TO LONG DIMENSION.
R-1	—	—	SEE DWG	RETURN		B12	19mm BLADE SPACING, 45 DEG. DEFLECTION C/W BALANCING DAMPER EG: E.H. PRICE 530 SERIES
R-2	—	—	SEE DWG	EXHAUST	EGG CRATE GRILLE	B12	C/W BALANCING DAMPER EG: E.H. PRICE 80 SERIES
E-1	—	—	SEE DWG	EXHAUST	EGG CRATE GRILLE	B12	C/W BALANCING DAMPER EG: E.H. PRICE 80 SERIES
T-1	—	—	SEE DWG	TRANSFER	EGG CRATE GRILLE	B12	EG: E.H. PRICE 80 SERIES
LOUVER	—	—	SEE DWG	SUPPLY/EXHAUST	EXTERIOR LOUVER	—	35 DEGREE DRAINABLE LOUVER C/W BIRDSCREEN EG: E.H. PRICE DE635

OIL INTERCEPTOR SCHEDULE											
TAG	LOCATION	MANUFACTURER	MODEL	FLOW RATE (L/s)	WEIGHT (kg)	INLET SIZE (ømm)	OUTLET SIZE (ømm)	DIMENSIONS			REMARKS
								LENGTH	WIDTH	HEIGHT	
OI-1	VEHICLE BAY 1			0.95	—	50	50	641	359	356	

PLUMBING FIXTURES SCHEDULE								
TAG No.	MANUFACTURER	MODEL No.	DESCRIPTION	DCW (ømm)	DHW (ømm)	SAN (ømm)	VENT(ø mm)	REMARKS
LV-1	—	—	LAVATORY, COUNTERTOP	12	12	32	32	LV-1: ADA Barrier free, countertop, vitreous china, self-draining deck, contoured back and side shields, 100mm centers, complete with carrier. Trim: lever handle faucet, 100mm centers. EG: AMERICAN STANDARD CADET
WC-1	—	—	WATER CLOSET, FLUSH VALVE	25	—	75	38	ADA barrier free compliant, floor mounted, vitreous china, low consumption 4.8L/flush, fully glazed 54mm internal trapway. Provide floor flange, flange bolts and gasket. Elongated bowl and seat. EG: KOHLER K-3609
MS-1	—	—	FLOOR MOUNTED JANITOR SINK	12	12	50	38	610x610x250mm FLOOR MOUNTED MOP SINK C/W HOSE AND HOSE BRACKET (832-AA), MOP HANGER (889-CC), VINYL BUMPERGUARD (E-77-AA), AND STAINLESS STEEL WALL GUARD (MSG2424), AND FIAT SERVICE-SINK FAUCET (830-AA, CHROME PLATED W/ VACUUM BREAKER, INTEGRAL STOPS, ADJUSTABLE WALL BRACE, PAIL HOOK, 19mm HOSE TREAD ON SPOUT).
HB	—	—	HOSE BIBB	12	12	38	32	STAINLESS STEEL, LEAD FREE, WITH VACUUM BREAKER.
NFHB	—	—	NON FREEZE HOSE BIBB	12	12	38	32	STAINLESS STEEL, LEAD FREE, WITH VACUUM BREAKER. C/W ADJUSTABLE WALL-FLANGE OPERATING KEY

PUMP SCHEDULE										
TAG No.	SERVICE	LOCATION	MANUFACTURER	MODEL No.	CAPACITY (L/s)	HEAD (M)	MOTOR (Hp)	RPM	ELECTRICAL (V/Ph/Hz)	REMARKS
P-1	DWCIRC	BOILER ROOM	—	—	0.19	1.61	.15	—	115/1/60	3 SPEED PUMP. SELECTED AT SPEED 2.
P-2	CONDENSATE	STORAGE ROOM	—	—	.044	4.6	.125	—	115/1/60	CORD CONNECTED
P-3.1	BOILER B-1	BOILER ROOM	—	—	0.84	2.9	.16	—	115/1/60	PUMP SELECTED ON SPEED 2 OF 3
P-3.2	BOILER B-2	BOILER ROOM	—	—	0.84	2.9	.16	—	115/1/60	PUMP SELECTED ON SPEED 2 OF 3
P-3.3	HEX COLD SIDE HW SECONDARY	BOILER ROOM	—	—	1.78	5.43	.5	—	115/1/60	PUMP SELECTED ON SPEED 2 OF 3
P-3.4	HEX COLD SIDE HW SECONDARY	BOILER ROOM	—	—	1.78	5.43	.5	—	115/1/60	PUMP SELECTED ON SPEED 2 OF 3

TANK SCHEDULE									
TAG No.	SERVICE	LOCATION	MANUFACTURER	MODEL No.	USAGE	TANK VOLUME (L)	TANK ACCEPTIANCE VOLUME (L)	DIMENSIONS (ø X L) (W x L x H) (mm)	REMARKS
TK-3.1	EXPANSION TANK	ROOM 104	—	—	HW EXPANSION	28	9.46	280 X 584	
TK-3.2	EXPANSION TANK	ROOM 104	—	—	HW EXPANSION	52.99	42.8	381 X 610	
TK-3.3	GLYCOL FILL TANK	ROOM 104	—	—	GLYCOL FILL	25	—	300x300x400	PACKAGED GLYCOL FILL SYSTEM W/ PUMP, 0.04L/s FLOW, PROVIDE PLUGIN RECEPTACLE.
FOT	FUEL OIL TANK	W SIDE OF BLDG	—	—	FO STORAGE	2270		1270x1854	C/W SRS

WALLFIN SCHEDULE									
TYPE	MANUFACTURER	ELEMENT No.	ENCLOSURE No.	CAPACITY (W/m)	No. OF ROWS	CABINET	ELEMENT (LxW) (in)	DIMENSIONS (L X W X H) (in)	REMARKS
WF-1				711	1	TOP LOUVERED OUTLET	2.75 X 4	24 X 5.25 X 6	
WF-2				926	1	TOP LOUVERED OUTLET	2.75 X 4	72 X 5.25 X 12	

HYDRONIC UNIT & CABINET UNIT HEATER SCHEDULE														
TAG	LOCATION	MANUFACTURER	MODEL	HEATING MEDIUM	CAPACITY (kW)	LIQUID			AIRFLOW (L/S)	MOTOR (Hp)	V/PH/HZ	WEIGHT (kg)	DIMENSIONS (LxWxD) (mm)	REMARKS
						ENT °C	LWT °C	FLOW (L/S)						
UH-1	VEHICLE BAY 1			50% GLYCOL	6.6	71	82	0.15	197	.05	115/1/60	18	558 x 343 x 394	HORIZONTAL UNIT HEATER
UH-2	VEHICLE BAY 1			50% GLYCOL	9.71	71	82	0.23	395	.125	115/1/60	18	558 x 343 x 394	HORIZONTAL UNIT HEATER
UH-3	VEHICLE BAY 2			50% GLYCOL	9.71	71	82	0.23	395	.125	115/1/60	18	558 x 343 x 394	HORIZONTAL UNIT HEATER
UH-4	VEHICLE BAY 2			50% GLYCOL	6.6	71	82	0.15	197	.05	115/1/60	18	558 x 343 x 394	HORIZONTAL UNIT HEATER
UH-5	STORAGE			50% GLYCOL	5	71	82	0.12	268	.05	115/1/60	22	470 X 470 X 292	VERTICAL UNIT HEATER
UH-6	STORAGE			50% GLYCOL	7	71	82	0.16	244	.05	115/1/60	18	558 x 343 x 394	HORIZONTAL UNIT HEATER
UH-7	WORKSHOP			50% GLYCOL	11.3	71	82	0.26	390	.05	115/1/60	21.8	685.8 X 412 X 419	HORIZONTAL UNIT HEATER
UH-8	WORKSHOP			50% GLYCOL	8.2	71	82	0.19	268	.05	115/1/60	22	470 X 470 X 292	VERTICAL UNIT HEATER
CUH-1	VESTIBULE			50% GLYCOL	4.75	71	82	.1	103	.11	115/1/60	34	660 X 241 X 711	CABINET UNIT HEATER

BOILER SCHEDULE													
m	LOCATION	MANUFAC-TURER	MODEL No.	FUEL	INPUT (kW)	OUTPUT (kW)	FLUID	FLUID IN (°C)	FLUID OUT (°C)	P.D. (kPa)	MOTOR (Hp)	V/Ph/Hz	REMARKS
B-1	BOILER ROOM			NO. 2 FUEL OIL	38.9	29.3	TREATED WATER	74	85	—	1/7	120/1/60	C/W TWO STAGE BURNER
B-2	BOILER ROOM			NO. 2 FUEL OIL	38.9	29.3	TREATED WATER	74	85	—	1/7	120/1/60	C/W TWO STAGE BURNER

FIRE EXTINGUISHER SCHEDULE						
TAG No.	MANUFACTURER	MODEL No.	DESCRIPTION	UL RATING	BRACKET	REMARKS
DCE-1	—	—	PRESSURIZED DRY CHEMICAL,	2A-40B:C	STANDARD HANGER WITH QUICK RELEASE MECHANICAL RETENSION STRAP	
DCE-2	—	—	PRESSURIZED DRY CHEMICAL,	4A-80B:C	STANDARD HANGER WITH QUICK RELEASE MECHANICAL RETENSION STRAP	

HEAT RECOVERY UNIT SCHEDULE													
TAG No.	SERVICE	LOCATION	AIR FLOW (L/s)		E.S.P. (Pa)		SUPPLY FAN MOTOR		EXHAUST FAN MOTOR		V/PH	EST. WEIGHT (kg)	REMARKS
			SUPPLY	EXHAUST	SUPPLY	EXHAUST	AMPS	HP	AMPS	HP			
HRV-1	-	STORAGE ROOM	238	214	200	-	4.5	.67	4.5	.67	115/1	77.3	UNIT C/W INTEGRAL MERV 8 FILTERS & RE-CIRCULATION DEFOREST MODE

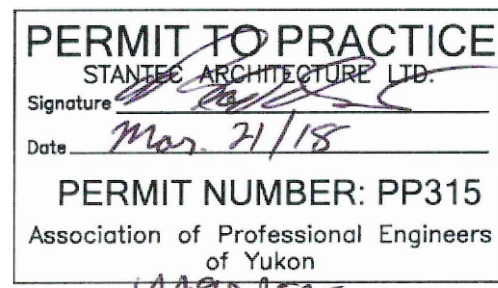
ELECTRIC DOMESTIC HOT WATER HEATER SCHEDULE							
TAG No.	LOCATION	MANUFACTURER	MODEL	CAPACITY (L)	ELEMENTS (W)	V/PH	REMARKS
DHWH—1	BOILER ROOM			114	1500	120/1	

HEAT EXCHANGER SCHEDULE														
	LOCATION	MANUFACTURER	MODEL	HOT SIDE				COLD SIDE				P.D. (Kpa)	HEAT EXCHANGED (kW)	REMARKS
				EWI °F	LWT °F	FLOW (L/S)	MEDIUM	EWI °F	LWT °F	FLOW (L/S)	MEDIUM			
HEX-1.1	BOILER ROOM	—	—	185	165	1.31	WATER	160	180	1.42	50% GLYCOL	3	60.8	PERFORMANCE TO BE CERTIFIED TO ARI 400 STANDARDS

PREHEAT AND REHEAT COIL SCHEDULE													
TAG	DUTY	MANUFACTURER	SIZE WxH (mm)	CAPACITY (kW)	AIR				FLUID				REMARKS
					FLOW (L/S)	P.D. (Pa)	EAT (°C)	LAT (°C)	FLOW (L/S)	P.D. (kPa)	EWT °C	LWT °C	
PHC-1	O/A	—	300X250	10.57	238	35	-47	-10	0.24	4.2	82	71	50/50 PROPYLENE GLYCOL WORKING FLUID
RHC-1	S/A	—	300X250	3.16	238	27	4.9	16	.074	0.27	82	71	50/50 PROPYLENE GLYCOL WORKING FLUID



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Revision/	Description/Description	Date/Date
Client/Client		

PARKS CANADA  
HAINES JUNCTION, Y.T.

Project title/Titre du projet

TRADES BUILDING  
KLUANE PARK  
HEAD QUARTERS

Consultant Approval Box Only

Designed by/Concept par  
G.QUINSEY

Drawn by/Dessiné par  
B.HOEFS

PW50C Project Manager/Administrateur de Projets TP50C  
STEPHANE CLAVEL

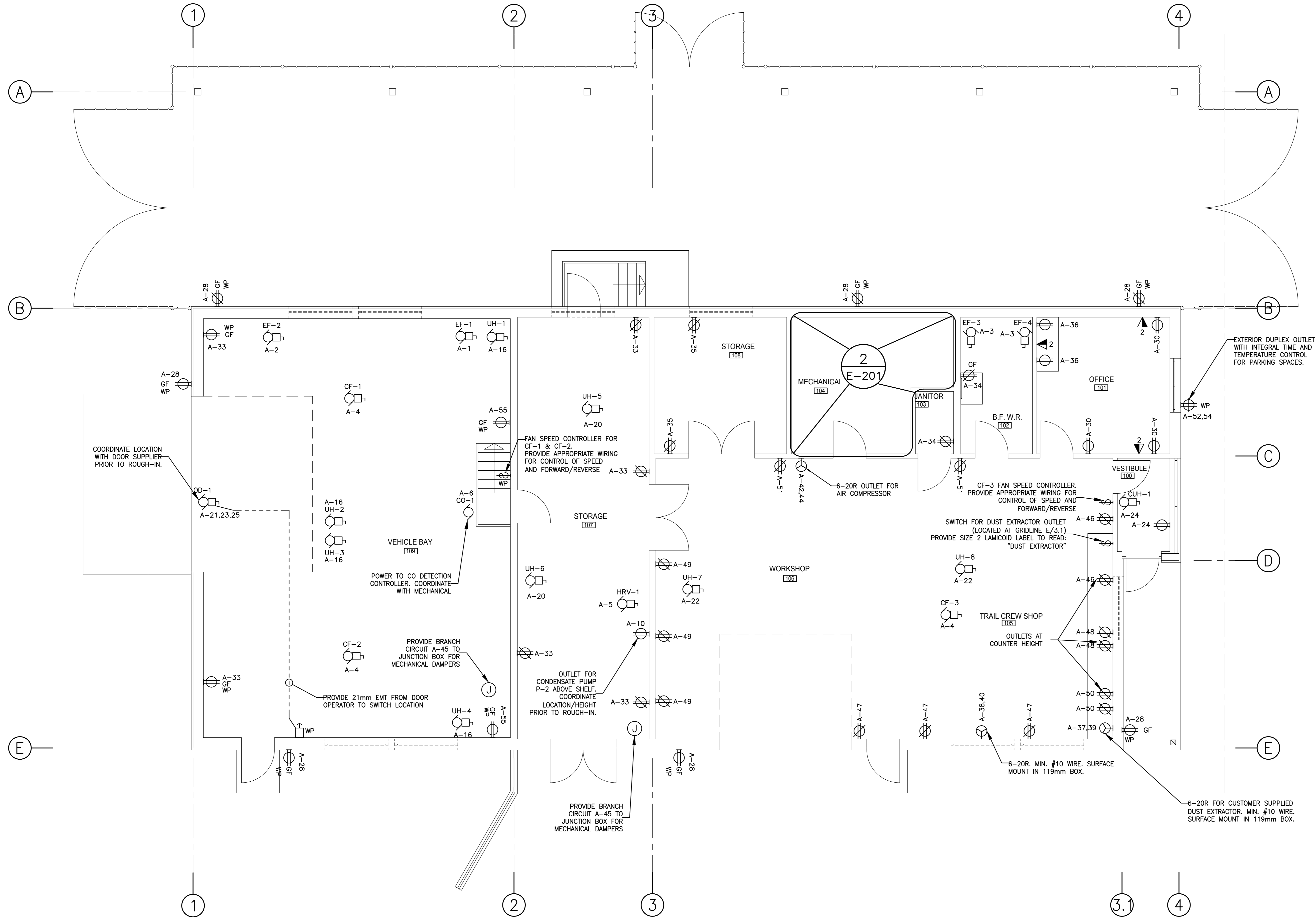
PW50C Regional Manager, Architectural and Engineering Services/  
Gestionnaire régional, Services d'architecture et de génie, TP50C  
PREETIPAL PAUL

Drawing title/Titre du dessin

SCHEDULES

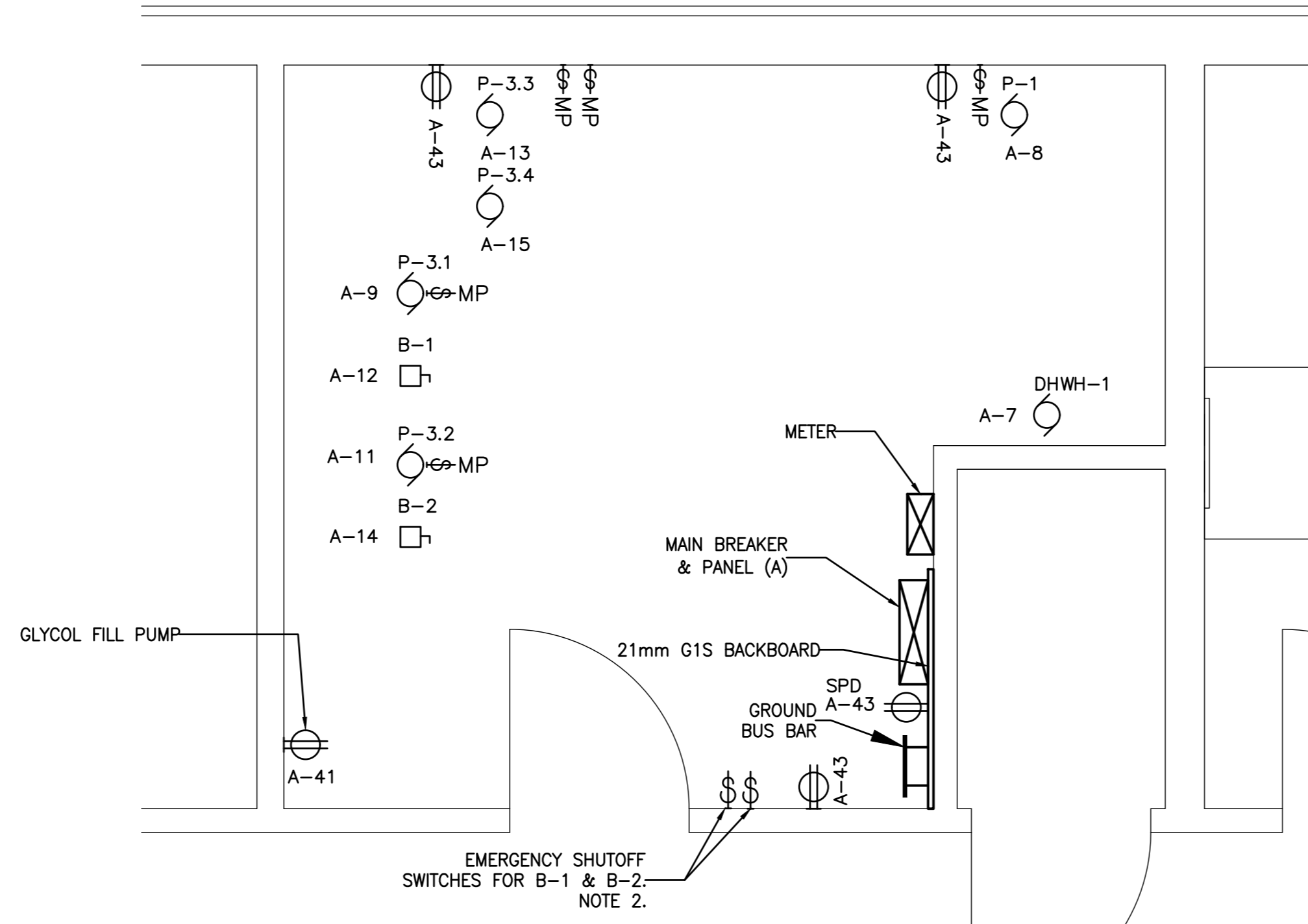
Project No./No. du projet R.075647.001	Sheet/Feuille M-700	Revision no./ La Révision no. 0
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NOTES:  
1. FOR ALL DATA OUTLETS, PROVIDE BACKBOX AND CONDUIT TO MECHANICAL ROOM BACKBOARD ONLY. DATA CABLING BY OWNER, CONDUIT TO BE MINIMUM 27mm.  
2. FOR THE PURPOSES OF ELECTRICAL WIRING AND DEVICE INSTALLATIONS, VEHICLE BAYS TO BE TREATED AS CATEGORY 1 WET LOCATIONS.

**1 POWER AND STRUCTURED WIRING PLAN**  
E-201 1:50

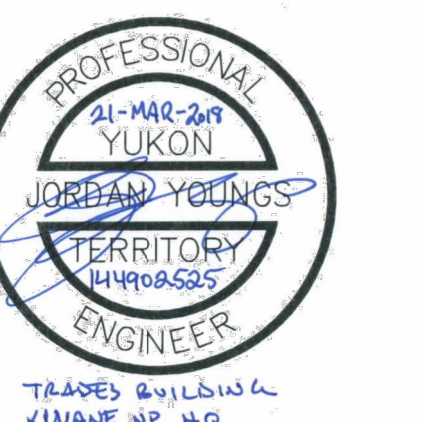
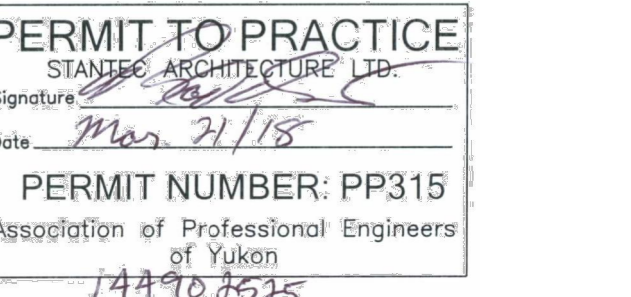
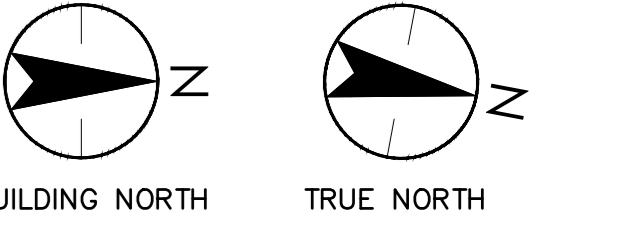


NOTES:  
1. PROVIDE 35MM EMT CONDUIT STUB FROM MECHANICAL ROOM INTO ATTIC SPACE ABOVE FOR FUTURE ROOF MOUNTED SOLAR PANELS. PROVIDE CONDUIT GROUNDING LUG OR RING WITH #12 CU BOND TO GROUND BUS. MAKE GOOD ALL WALL PENETRATIONS. PACK INSIDE OF CONDUIT WITH ROCKWOOL. PROVIDE DUCT SEAL ON WARM-IN-WINTER SIDE OF CONDUIT OPENING.  
2. PROVIDE RED LAMICOID LABELS INDICATING "BOILER 1 EMERGENCY SHUTOFF" & "BOILER 2 EMERGENCY SHUTOFF"

**2 MECHANICAL ROOM POWER AND STRUCTURED WIRING PLAN**  
E-201 1:25



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Client/Client

**PARKS CANADA  
HAINES JUNCTION, Y.T.**

Project title/Titre du projet

**TRADES BUILDING  
KLUANE PARK  
HEAD QUARTERS**

Consultant Approval Box Only

JORDAN YOUNGS

Designed by/Concept par

JORDAN YOUNGS/EVAN HARRIS

Drawn by/Dessiné par

EVAN HARRIS

PWSSC Project Manager/Administrateur de Projets TPSSC

STEPHANE CLAVEL

PWSSC Regional Manager, Architectural and Engineering Services/

Responsable régional, Services d'architecture et de génie, TPSSC

PREETIPAL PAUL

Drawing title/Titre du dessin

FLOOR PLAN - POWER

Project No./No. du projet

R.075647.001

Sheet/Feuille

E-201

2 OF 6

Revision no./

La Révision

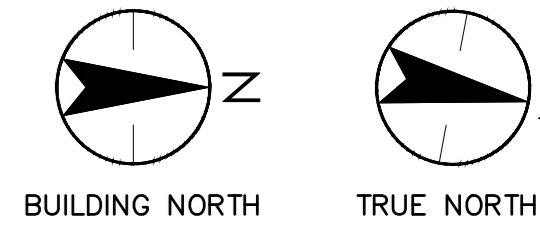
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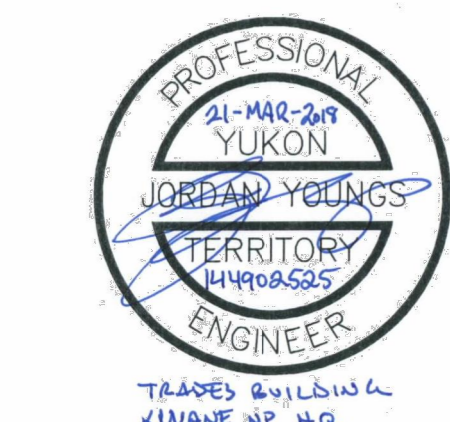
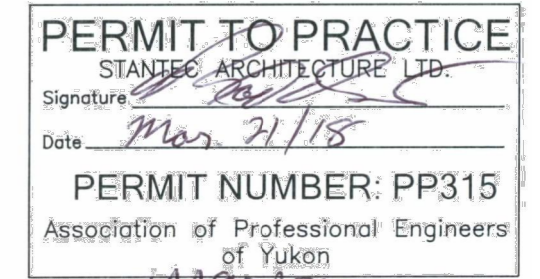


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BUILDING NORTH TRUE NORTH



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Revision/Revisions	Description/Descriptions	Date/Date

Client/Client:

PARKS CANADA  
HAINES JUNCTION, Y.T.

Project title/Titre du projet

TRADES BUILDING  
KLUANE PARK  
HEAD QUARTERS

Consultant Approval Box Only

JORDAN YOUNGS

Designed by/Conçue par

JORDAN YOUNGS/EVAN HARRIS

Drawn by/Dessiné par

EVAN HARRIS

PWOSC Project Manager/Administrateur de Projets TPSCG

STEPHANE CLAVEL

PWOSC Regional Manager, Architectural and Engineering Services/

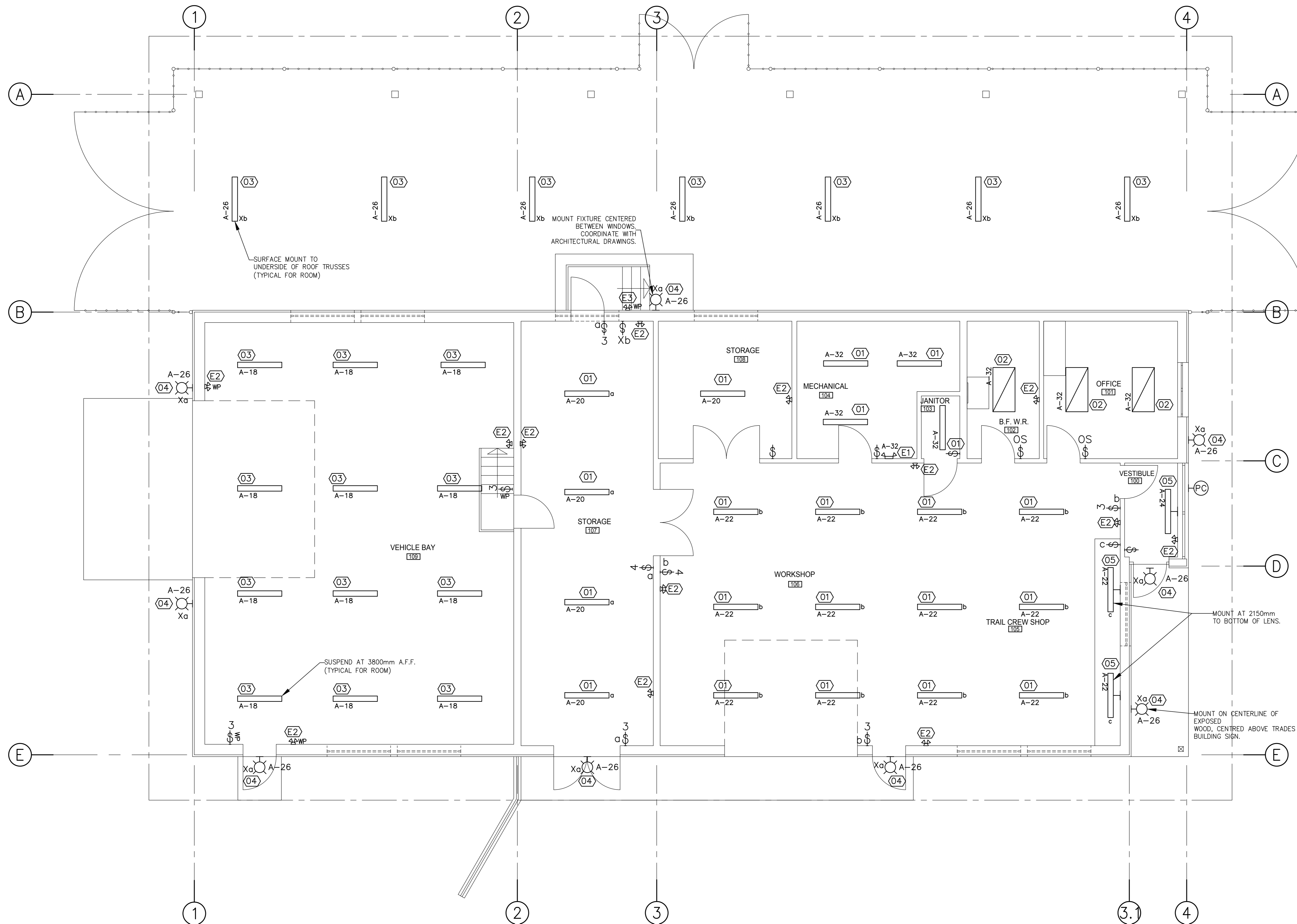
Responsable régional, Services d'architecture et de génie, TPSCG

PREETIPAL PAUL

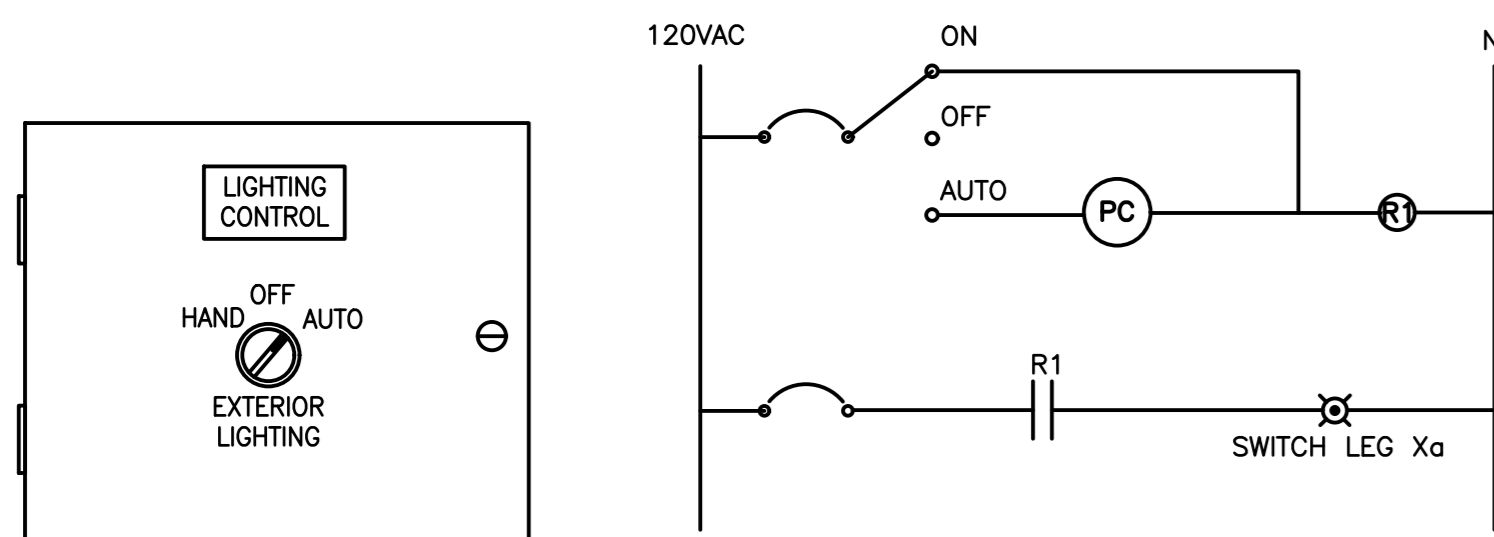
Drawing title/Titre du dessin

FLOOR PLAN - LIGHTING

Project No./No. du projet	Sheet/Feuille	Revision no./La Révision no.
R.075647.001	E-202 3 OF 6	0



1 LIGHTING PLAN  
E-202 1:50



NOTES:

1. SCHEMATIC IS FOR CLARIFICATION ONLY. CONTRACTOR TO PROVIDE ALL RELAYS, CONTROLS IMPLEMENTATION AS REQUIRED TO PROVIDE A COMPLETE OPERATIONAL SYSTEM.
2. TIME CLOCK TO BE QUARTZ, PROGRAMMABLE TYPE. LIGHTS TO ILLUMINATE BY TIMECLOCK BETWEEN 0600 AND 2100.
3. PROVIDE MINIMUM 300x300x100 HINGED STEEL JUNCTION BOX. RECESS SWITCHES AS SHOWN. PROVIDE LAMICOID LABELLING.

2 OUTDOOR LIGHTING CONTROL SCHEMATIC  
E-202 N.T.S.

LOCATION	VOLTAGE	MINIMUM WATTAGE	MONITORED CIRCUITS (NOTE 1)
MECHANICAL ROOM 104	24V	130W	A-16, A-18, A-20, A-22, A-24, A-26, A-32

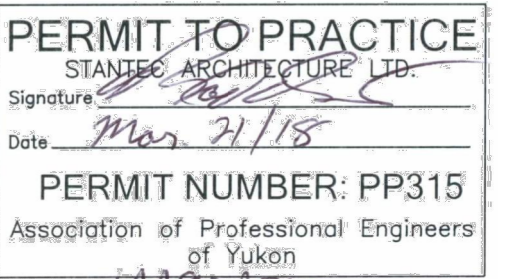
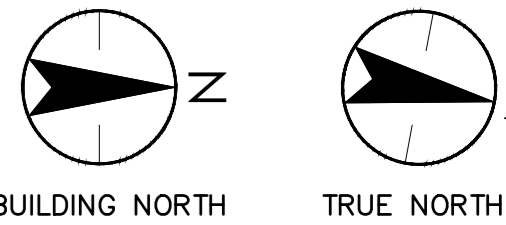
NOTES:

1. MONITORING TO BE ACHIEVED VIA CSA APPROVED RELAY CONTROL DEVICE BY SAME MANUFACTURER AS EMERGENCY LIGHTS.
2. ALL EMERGENCY LIGHTING TO BE FED FROM SAME BATTERY PACK

3 BATTERY PACK ZONE MONITOR SCHEDULE  
E-202 N.T.S.



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Revision/Description Date/Date

Client/Client

PARKS CANADA  
HAINES JUNCTION, Y.T.

Project title/Titre du projet

TRADES BUILDING  
KLUANE PARK  
HEAD QUARTERS

Consultant Approval Box Only

JORDAN YOUNGS

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JORDAN YOUNGS/EVAN HARRIS

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PWSSC Project Manager/Administrateur de Projets TPSSC

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Administrateur régional, Services d'architecture et de génie, TPSSC

PREETIPAL PAUL

Drawing title/Titre du dessin

FLOOR PLAN - SECURITY

Project No./No. du projet

R.075647.001

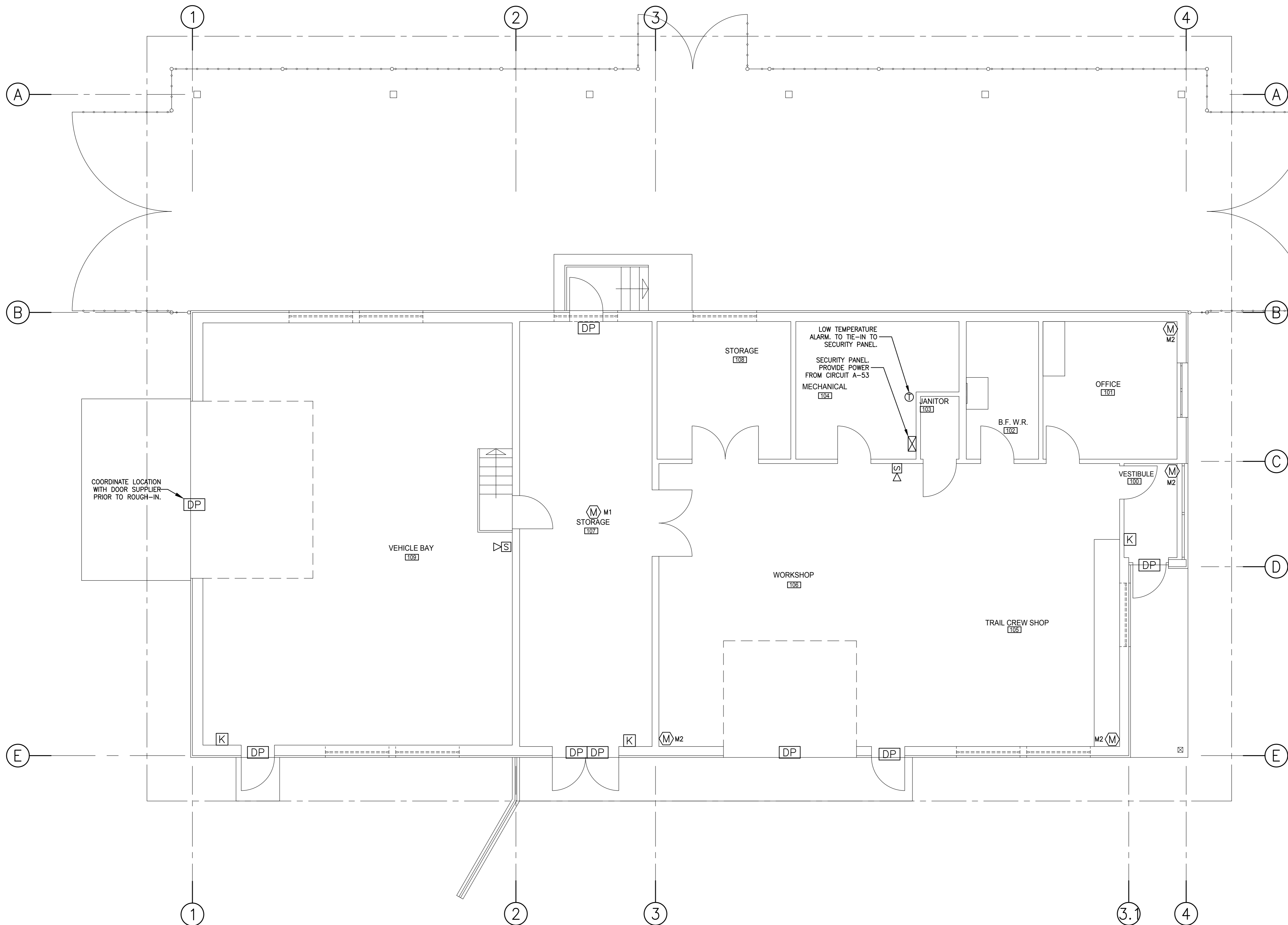
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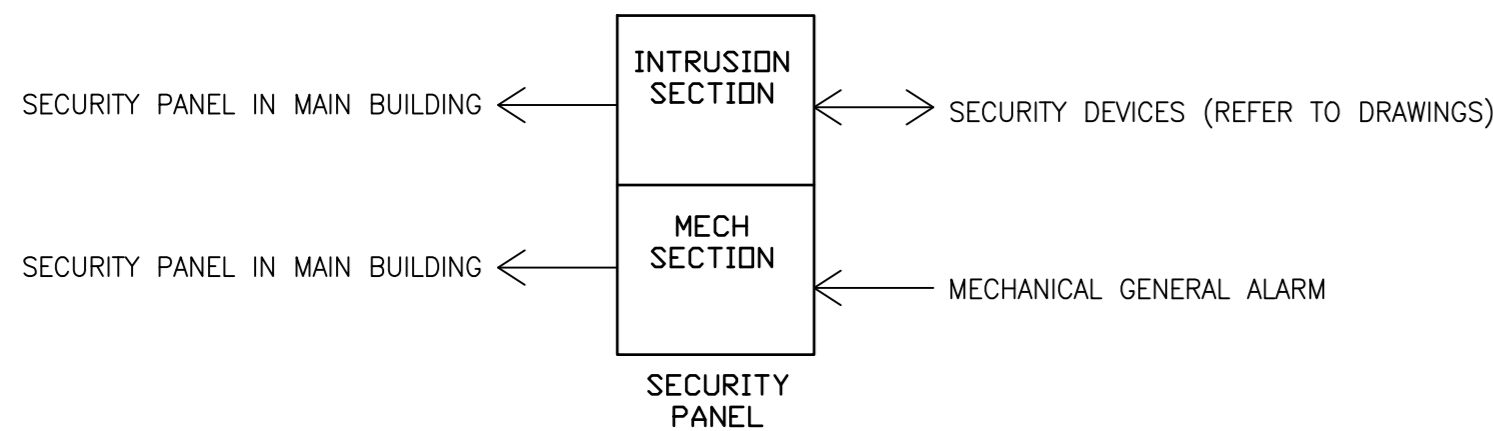
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La Révision  
no.

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NOTES:  
1. FOR THE PURPOSES OF ELECTRICAL WIRING AND DEVICE INSTALLATIONS, VEHICLE BAYS TO BE TREATED AS CATEGORY 1 WET LOCATIONS.

1 SECURITY PLAN  
E-203 1:50



SENSOR TYPE	DESCRIPTION	RANGE
M1	CEILING MOUNTED 360° MOTION DETECTOR	MINIMUM 10m DETECTION RADIUS, SUITABLE FOR MOUNTING AT CEILING HEIGHT SHOWN ON ARCHITECTURE DRAWINGS.
M2	CORNER WALL MOUNTED MULTI-LEVEL DUAL SENSOR PIR LENS MOTION DETECTOR	MINIMUM 90° HORIZONTAL COVERAGE ANGLE, MINIMUM 12m DETECTION RADIUS.

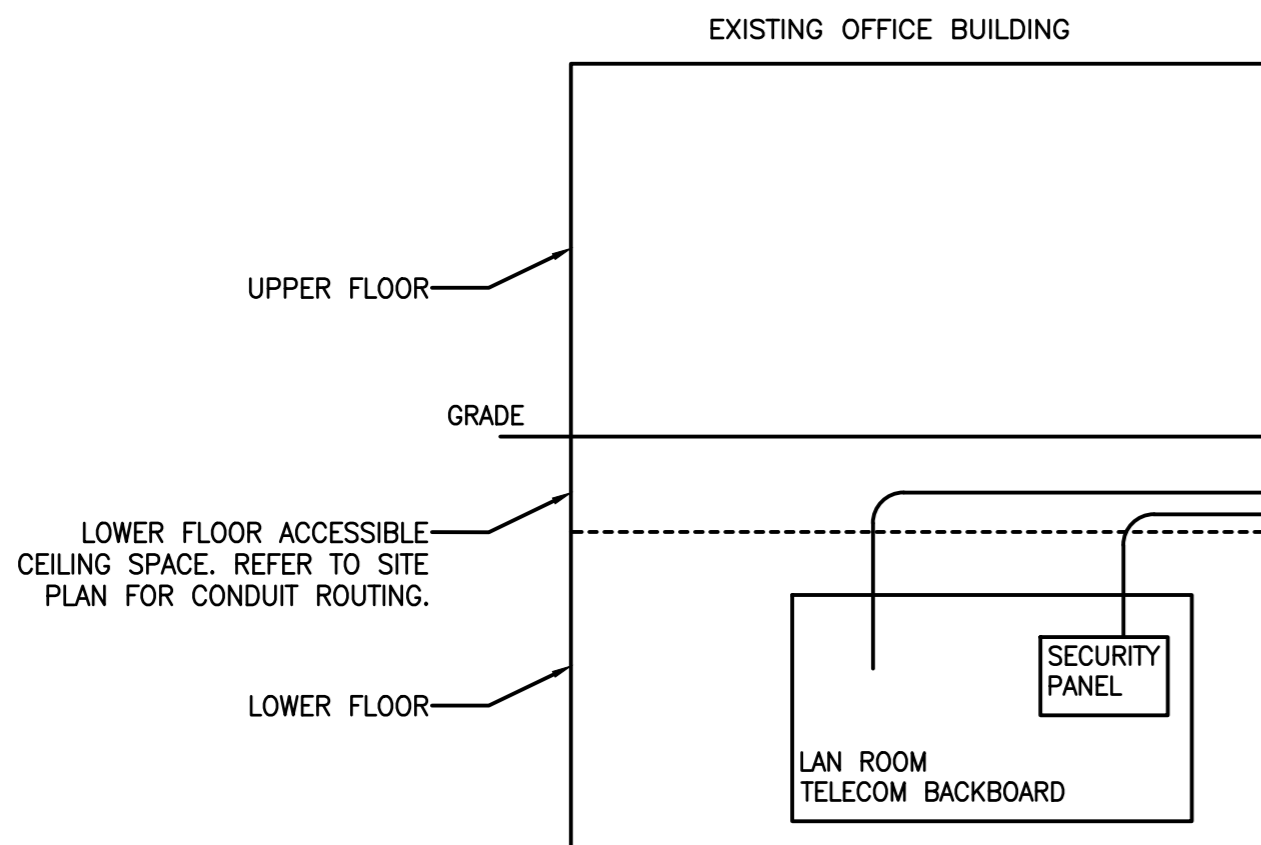
2 SECURITY BLOCK DIAGRAM  
E-203 N.T.S.

	LOCATION	HP	KW	PHASE	VOLTS	FLA	FEEDER	BREAKER	CONTROL
EF-1	VEHICLE BAY 1	.75	—	1	120	13.8	2W #12 AWG Cu + #14 AWG Cu BOND IN 21mm CONDUIT	1P30	MMP/R/HOA
EF-2	VEHICLE BAY 1	.5	—	1	120	9.8	2W #12 AWG Cu + #14 AWG Cu BOND IN 21mm CONDUIT	1P20	MMP/R/HOA
EF-3	WASHROOM	.167	—	1	120	3.4	2W #12 AWG Cu + #14 AWG Cu BOND IN 21mm CONDUIT	1P15	BREAKER ONLY (LRD BY MECH)
EF-4	WASHROOM	.167	—	1	120	3.4	2W #12 AWG Cu + #14 AWG Cu BOND IN 21mm CONDUIT	1P15	BREAKER ONLY (LRD BY MECH)
CF-1	VEHICLE BAY 1	.13	—	1	120	.9	2W #12 AWG Cu + #14 AWG Cu BOND IN 21mm CONDUIT	1P15	LRD
CF-2	VEHICLE BAY 2	.13	—	1	120	.9	2W #12 AWG Cu + #14 AWG Cu BOND IN 21mm CONDUIT	1P15	LRD
CF-3	WORKSHOP	.115	—	1	120	.8	2W #12 AWG Cu + #14 AWG Cu BOND IN 21mm CONDUIT	1P15	LRD
HRV-1	STORAGE	.657	—	1	120	5	2W #12 AWG Cu + #14 AWG Cu BOND IN 21mm CONDUIT	1P20	LRD
CO-1	VEHICLE BAY 1	—	—	1	120	FRAC	2W #12 AWG Cu + #14 AWG Cu BOND IN 21mm CONDUIT	1P15	BREAKER ONLY
DHWH-1	MECH ROOM	—	1.5	1	120	12.5	2W #12 AWG Cu + #14 AWG Cu BOND IN 21mm CONDUIT	1P20	BREAKER ONLY
P-1	MECH ROOM	.15	—	1	120	4.4	2W #12 AWG Cu + #14 AWG Cu BOND IN 21mm CONDUIT	1P15	MMP/R/HOA
P-2	STORAGE	.125	—	1	120	4.4	2W #12 AWG Cu + #14 AWG Cu BOND IN 21mm CONDUIT	1P15	PLUG-IN ONLY
P-3.1	MECH ROOM	.16	—	1	120	4.4	2W #12 AWG Cu + #14 AWG Cu BOND IN 21mm CONDUIT	1P15	MMP/R/HOA
P-3.2	MECH ROOM	.16	—	1	120	4.4	2W #12 AWG Cu + #14 AWG Cu BOND IN 21mm CONDUIT	1P15	MMP/R/HOA
P-3.3	MECH ROOM	.5	—	1	120	9.8	2W #12 AWG Cu + #14 AWG Cu BOND IN 21mm CONDUIT	1P20	MMP/R/HOA
P-3.4	MECH ROOM	.5	—	1	120	9.8	2W #12 AWG Cu + #14 AWG Cu BOND IN 21mm CONDUIT	1P20	MMP/R/HOA
B-1	MECH ROOM	.167	—	1	120	4.4	2W #12 AWG Cu + #14 AWG Cu BOND IN 21mm CONDUIT	1P15	LRD
B-2	MECH ROOM	.167	—	1	120	4.4	2W #12 AWG Cu + #14 AWG Cu BOND IN 21mm CONDUIT	1P15	LRD
UH-1	VEHICLE BAY	.05	—	1	120	4.4	2W #12 AWG Cu + #14 AWG Cu BOND IN 21mm CONDUIT	1P15	LRD
UH-2	VEHICLE BAY	.125	—	1	120	4.4	2W #12 AWG Cu + #14 AWG Cu BOND IN 21mm CONDUIT	1P15	LRD
UH-3	VEHICLE BAY	.125	—	1	120	4.4	2W #12 AWG Cu + #14 AWG Cu BOND IN 21mm CONDUIT	1P15	LRD
UH-4	VEHICLE BAY	.05	—	1	120	4.4	2W #12 AWG Cu + #14 AWG Cu BOND IN 21mm CONDUIT	1P15	LRD
UH-5	STORAGE	.05	—	1	120	4.4	2W #12 AWG Cu + #14 AWG Cu BOND IN 21mm CONDUIT	1P15	LRD
UH-6	STORAGE	.05	—	1	120	4.4	2W #12 AWG Cu + #14 AWG Cu BOND IN 21mm CONDUIT	1P15	LRD
UH-7	WORKSHOP	.05	—	1	120	4.4	2W #12 AWG Cu + #14 AWG Cu BOND IN 21mm CONDUIT	1P15	LRD
UH-8	WORKSHOP	.05	—	1	120	4.4	2W #12 AWG Cu + #14 AWG Cu BOND IN 21mm CONDUIT	1P15	LRD
CUH-1	ENTRY VESTIBULE	—	.25	1	120	4.4	2W #12 AWG Cu + #14 AWG Cu BOND IN 21mm CONDUIT	1P15	LRD
OD-1 (OVERHEAD DOOR OPERATOR)	VEHICLE BAY 1	1	—	3	208	4.6	3W #8 AWG Cu + #10 AWG Cu BOND IN 27mm CONDUIT	3P15	LRD

NOTES:  
1. EQUIPMENT SCHEDULE IS FOR ESTIMATING PURPOSES ONLY. CONFIRM ALL MOTOR FULL LOAD CURRENTS WITH NAMEPLATES AND SIZE MOTOR DISCONNECTS, BREAKERS, FUSES, FEEDERS AND OVERLOADS ACCORDINGLY.  
2. COORDINATE ALL INFORMATION WITH RELEVANT DISCIPLINES INCLUDING MECHANICAL AND FUEL OIL.  
3. PROVIDE BREAKERS FOR MECHANICAL CONTROL EQUIPMENT AS NEEDED. COORDINATE WITH MECHANICAL CONTRACTOR.

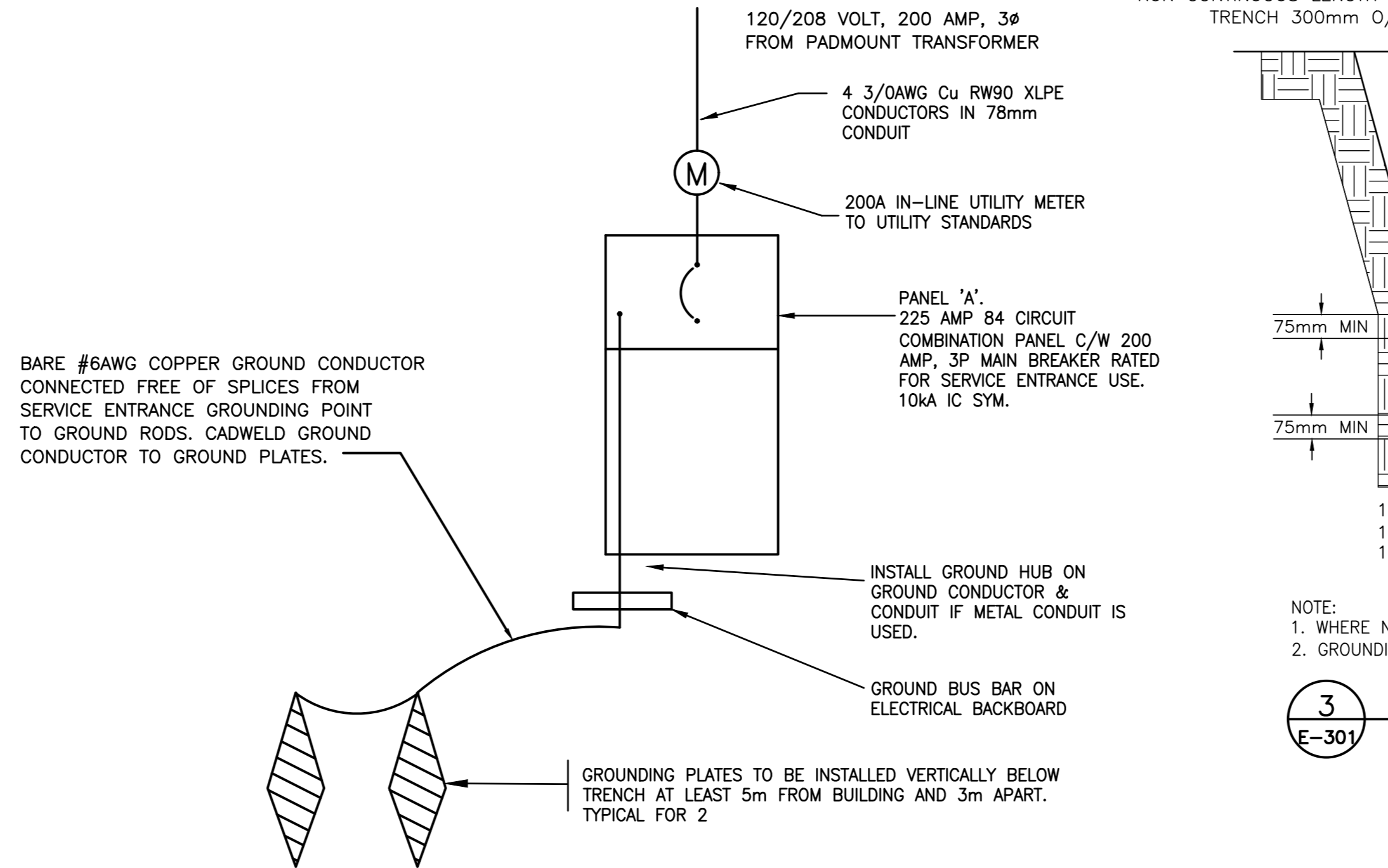
CONTROL DEVICE LEGEND:  
LRD = LOAD RATED DISCONNECT  
MAG = MAGNETIC STARTER  
CMS = COMBINATION MAGNETIC STARTER WITH DISCONNECT  
MMP = MANUAL MOTOR PROTECTION  
/R = WITH LOAD RATED RELAY  
/P = PILOT RUN LIGHT  
/HOA = HAND-OFF-AUTO SWITCH

### 1 MOTOR SCHEDULE E-301 N.T.S.

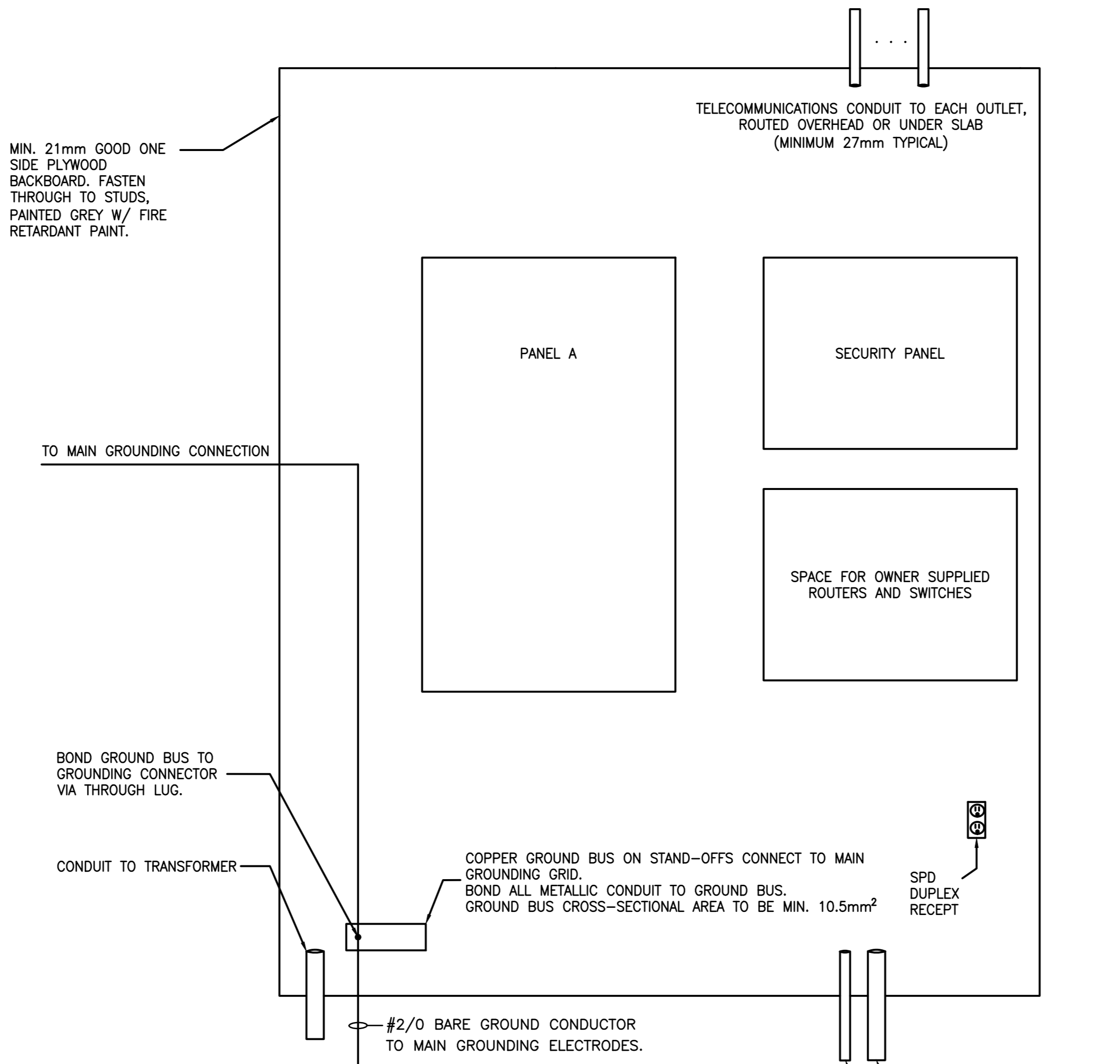


NOTES:  
1. CONTRACTOR TO COORDINATE WITH AS-FOUND SITE CONDITIONS.  
2. SEAL ALL BUILDING PENETRATION TO ARCHITECT APPROVAL.  
3. REFER TO SITE PLAN

### 6 BUILDING INTERCONNECTION DETAIL E-301 N.T.S.

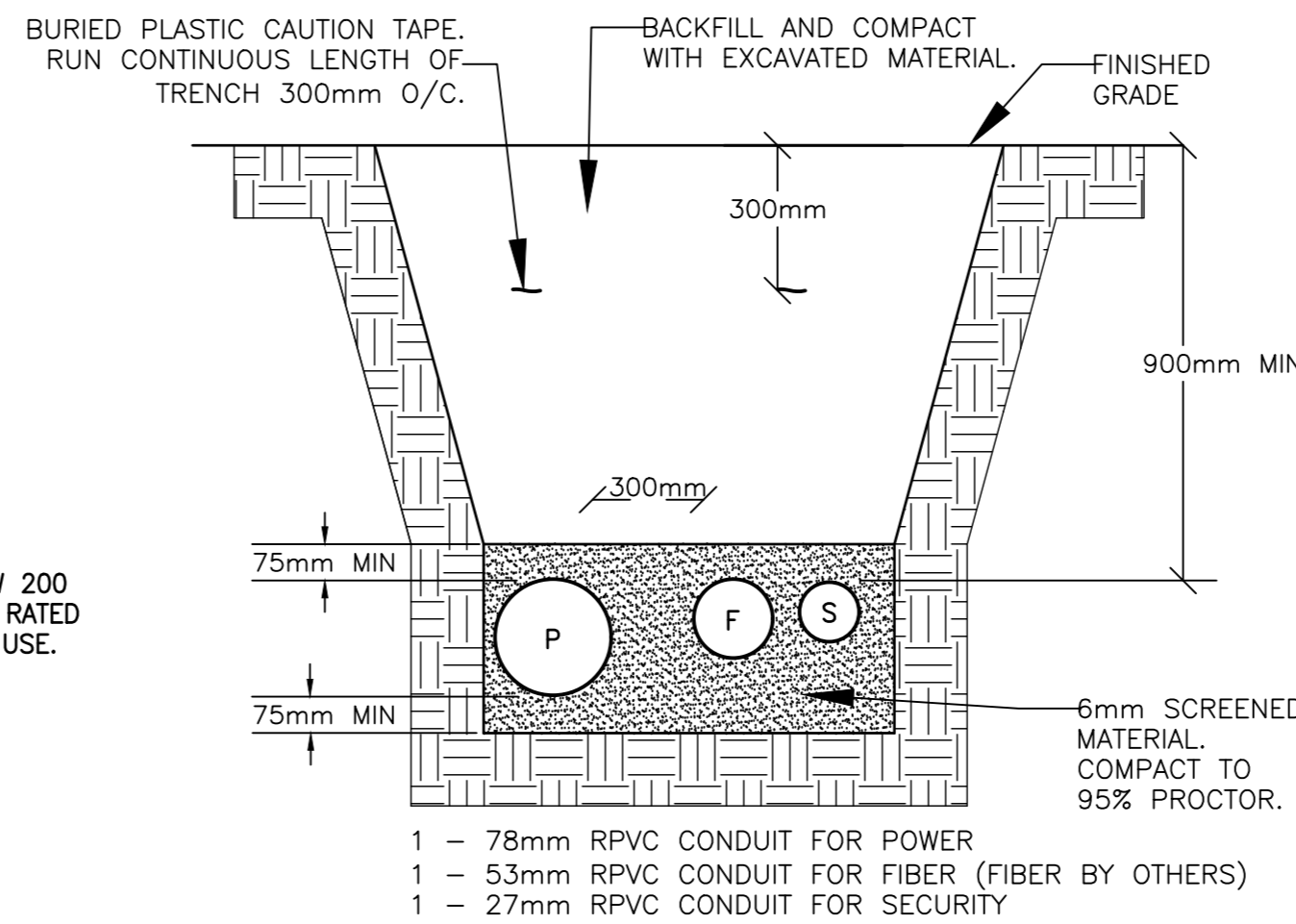


### 2 SINGLE LINE DIAGRAM E-301 N.T.S.



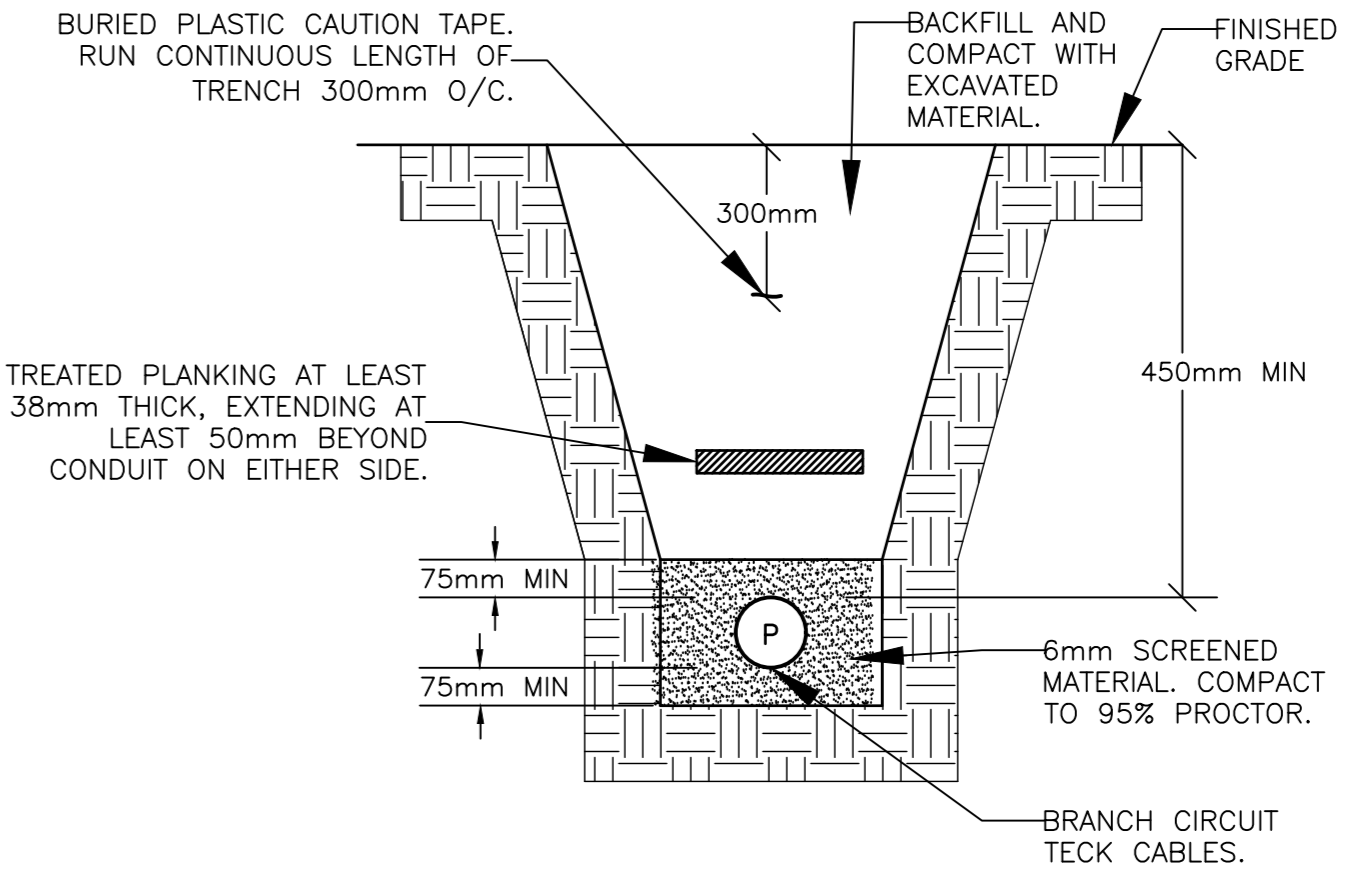
NOTES:  
1. ALL COMMUNICATIONS CABLING BY OTHERS.

### 5 ELECTRICAL BACKBOARD DETAIL E-301 N.T.S.



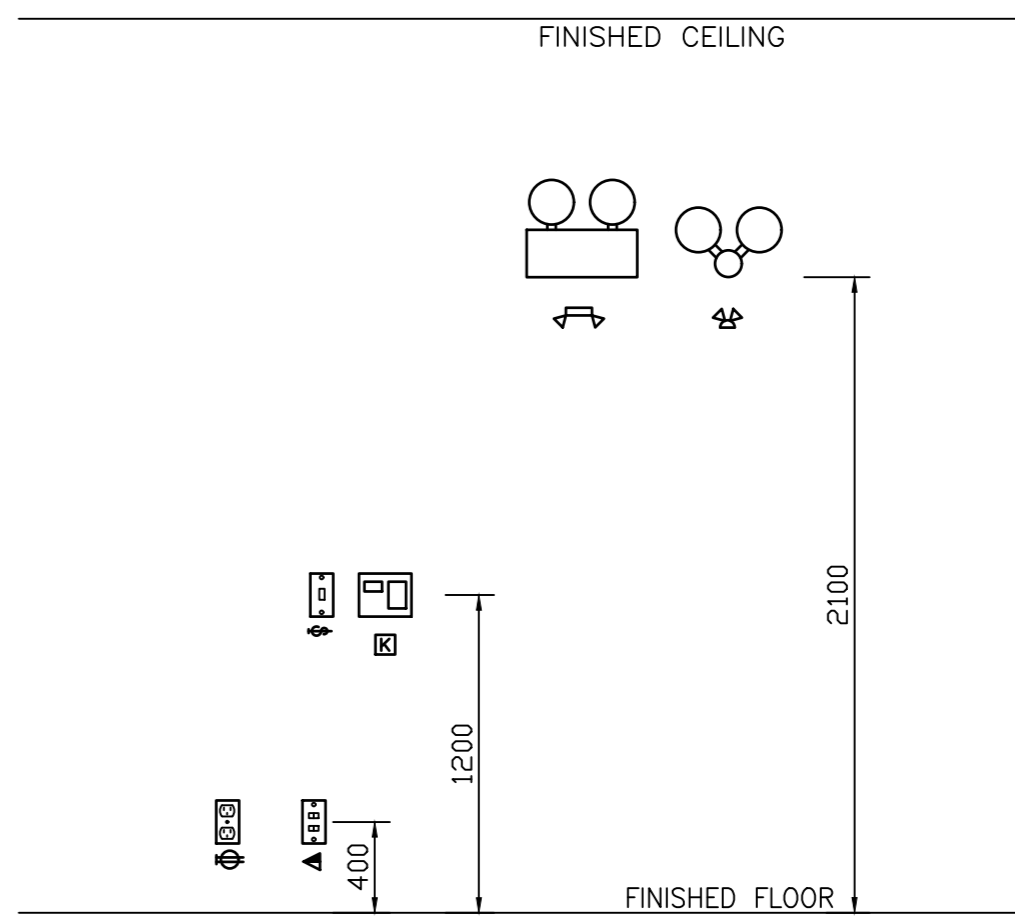
NOTE:  
1. WHERE NOT SPECIFIED, MINIMUM 50mm SEPARATION BETWEEN CONDUIT.  
2. GROUNDING CONDUCTOR TO RUN THROUGH TRENCH, REFER TO 2/E-301.

### 3 TRENCH DETAIL E-301 N.T.S.



NOTE:  
1. WHERE NOT SPECIFIED, MINIMUM 50mm SEPARATION BETWEEN CONDUCTORS.

### 8 BRANCH CIRCUIT TRENCH DETAIL E-301 N.T.S.




NOTES:  
1. COORDINATE MOUNTING HEIGHT OF ELECTRICAL EQUIPMENT WITH ARCHITECTURAL ELEVATION PRIOR TO INSTALLATION.  
2. DIMENSIONS IN THIS DIAGRAM GIVEN IN MILLIMETERS.


### 4 TYPICAL DEVICE MOUNTING HEIGHTS E-301 N.T.S.


PANEL: A													
VOLTS: 120/208				LOCATION: MECHANICAL ROOM				BUSS: 225					
PHASE: 3				FEEDER: SEE SINGLE LINE DIAGRAM				MTG: SURFACE					
WIRE: 4													
CIRC	BRKR	WATTS			DESCRIPTION	DESCRIPTION	WATTS			BRKR	CIRC		
		A	B	C			A	B	C				
1	1P30	750			EF-1	CEILING FANS	500			1P20	2		
3	1P15		300		EF-3 & EF-4			375		1P15	4		
5	1P20			700	HW-1	DO-1 (PROVIDE THE LOCK DEVICE)			125	1P15	6		
7	1P20	1500			DHW-1								
9	1P15		150		P-3.1	P-2		150		1P15	10		
11	1P15			150	P-3.2	B-1			175	1P15	12		
13	1P20	500			P-3.3	B-2		175		1P15	14		
15	1P20		500		P-3.4	VEHICLE BAY HEAT		350		1P15	16		
17					SPACE	VEHICLE BAY LIGHTS			675	1P15	18		
19					SPACE	STORAGE HEAT & LIGHTS	425			1P15	20		
21						WORKSHOP HEAT & LIGHTS		650		1P15	22		
23	3P60		650	650	OVERHEAD DOOR OPENER				250	1P15	24		
25		650				EXTERIOR LIGHTING	650			1P15	26		
27					SPACE	EXTERIOR GFI RECEPTACLES		1050		1P20	28		
29					SPACE	OFFICE RECEPTACLES			750	1P15	30		
31					SPACE	OFFICE LIGHTING	400			1P15	32		
33	1P20		300		STORAGE ROOM RECEPTACLES	WASHROOM/JANITOR RCPTS		300		1P20	34		
35	1P20			450	SMALL STORAGE ROOM RCPTS	OFFICE COUNTER RCPTS			300	1P20	36		
37		750					750			2P20	38		
39	2P20		750		DUST COLLECTOR	TABLE SAW		750			40		
41	1P15			100	GLYCOL PUMP	AIR COMPRESSOR			750	2P20	42		
43	1P15	450	150		MECH ROOM RECEPTACLES	WORKSHOP COUNTER RCPTS		500		1P20	44		
45	1P15		150		MECHANICAL DAMPERS								
47	1P20			300	WORKSHOP RECEPTACLES	WORKSHOP COUNTER RCPTS		500		1P20	48		
49	1P20	300			WORKSHOP RECEPTACLES	WORKSHOP COUNTER RCPTS		500		1P20	50		
51	1P20		300		WORKSHOP RECEPTACLES	VEHICLE RECEPTACLE (BLDG)		650		2P15	52		
53	1P15			100	SECURITY PANEL	VEHICLE RECEPTACLE (BLDG)		650		2P15	54		
55	1P15	500			VEHICLE BAY RECEPTACLES	VEHICLE RECEPTACLE (EAST)	650			2P15	56		
57			650		VEHICLE RECEPTACLE (NORTH)	VEHICLE RECEPTACLE (EAST)		650			58		
59	2P15			650	VEHICLE RECEPTACLE (NORTH)	VEHICLE RECEPTACLE (EAST)			650	2P15	60		
61	2P15	650			VEHICLE RECEPTACLE (NORTH)	VEHICLE RECEPTACLE (EAST)	650			2P15	62		
63			650		VEHICLE RECEPTACLE (NORTH)	VEHICLE RECEPTACLE (EAST)		650		2P15	64		
65				650	VEHICLE RECEPTACLE (NORTH)	VEHICLE RECEPTACLE (EAST)			650	2P15	66		
67	2P15	650			VEHICLE RECEPTACLE (NORTH)	VEHICLE RECEPTACLE (EAST)	650			2P15	68		
69	2P15		650		VEHICLE RECEPTACLE (NORTH)	VEHICLE RECEPTACLE (EAST)		650		2P15	70		
71				650	VEHICLE RECEPTACLE (NORTH)	VEHICLE RECEPTACLE (EAST)			650	2P15	72		
73	1P20				SPARE	VEHICLE RECEPTACLE (EAST)	650			2P15	74		
75	1P15				SPARE	SPACE					76		
77	1P15				SPARE	SPACE					78		
79	1P15				SPARE	SPACE					80		
81					SPACE	SPACE					82		
83					SPACE	SPACE					84		
TOTAL		6700	5050	4400	Ø120/208 VOLTS 3 PHASE		6900	6700	6125	TOTAL			
PHASE A TOTAL =				13600									
PHASE B TOTAL =				11750									
PHASE C TOTAL =				10525									
PANEL TOTAL =		35875											
REMARKS													


### 7 PANEL SCHEDULE E-301 N.T.S.





LUMINAIRE TYPE: 01							
	DESCRIPTION	LAMP	MOUNTING	VOLTAGE	WATTAGE	LUMENS DELIVERED	DETAILS
	4' STRIPLIGHT	LED	SURFACE	120	41	4615	COMMERCIAL SPECIFICATION GRADE STRIPLIGHT. FULL LENGTH WIRE GUARD. CLEAR LENS.

LUMINAIRE TYPE: 02							
	DESCRIPTION	LAMP	MOUNTING	VOLTAGE	WATTAGE	LUMENS DELIVERED	DETAILS
	DIRECT/INDIRECT TROFFER	LED	RECESSED	120	36.5	3746	610MM X 1219MM (2'X4') ARCHITECTURAL DIRECT/INDIRECT TROFFER. RECESSED INTO TEAR, 4000K COLOR TEMPERATURE.

LUMINAIRE TYPE: 03							
	DESCRIPTION	LAMP	MOUNTING	VOLTAGE	WATTAGE	LUMENS DELIVERED	DETAILS
	INDUSTRIAL VAPORITE LED	LED	SURFACE/ SUSPENDED	120	56	6000	INDUSTRIAL LED VAPORITE FIXTURE. 1200MM NOMINAL LENGTH. REINFORCED FIBERGLASS HOUSING WITH FULL METAL FIXTURE LINER WITH HIGH IMPACT ACRYLIC DIFFUSER SUITABLE FOR INTERIOR AND EXTERIOR LOCATIONS. WET LOCATION RATED. SURFACE MOUNT OR CHAIN HUNG WHERE INDICATED. COLOUR TEMPERATURE 4000K WITH CRI OF AT LEAST 80.

LUMINAIRE TYPE: 04							
	DESCRIPTION	LAMP	MOUNTING	VOLTAGE	WATTAGE	LUMENS DELIVERED	DETAILS
	OUTDOOR WALL PACK	LED	WALL	120	47 (MAX)	4000 (MIN)	ONE-PIECE, DIE-CAST ALUMINUM HOUSING WITH ONE-PIECE SILICONE GASKET SEAL. LISTED FOR WET LOCATION AND IP66 INGRESS PROTECTION RATED. POWDER COAT FINISH (DARK BRONZE) WITH FULL CUT-OFF OPTICS. DARK-SKY COMPLIANT. POWER FACTOR >90% WITH THD <20%. INTEGRAL SURGE PROTECTION MEETING CATEGORY II (ANSI/IEEE C62.41.2). COLOUR TEMPERATURE TO BE 4000K WITH CRI OF AT LEAST 70.

LUMINAIRE TYPE: 05							
	DESCRIPTION	LAMP	MOUNTING	VOLTAGE	WATTAGE	LUMENS DELIVERED	DETAILS
	4' WALL BRACKET	LED	WALL	120	42.5	3990	1219MM (4') WALL BRACKET. OPAL WHITE LENS. UNIVERSAL VOLTAGE.

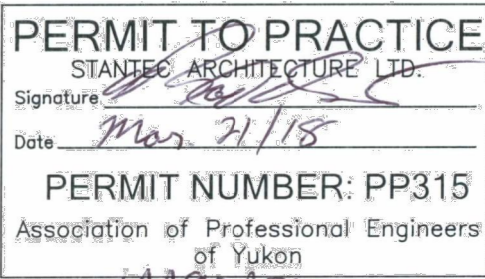
LUMINAIRE TYPE: EMERGENCY								
	DESCRIPTION	TYPE	LAMP	MOUNTING	VOLTAGE	WATTAGE	LUMENS DELIVERED	DETAILS
	EMERGENCY LIGHTS W/ BATTERY PACK	E1	2 X 4W MR16 LED	WALL	24	8W	-	-
	REMOTE HEAD EMERGENCY LIGHTS	E2						-
	OUTDOOR RATED REMOTE HEAD EMERGENCY LIGHTS	E3						SUITABLE FOR OPERATION AT -35°C.

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E-302  
FIXTURE SCHEDULE  
N.T.S.

DEMAND CALCULATION AS PER C22.1-15									
SERVICE FEEDER CALCULATION									
	AREA (m²)	WATTS / m²	PERCENT		LOAD				
OFFICE	22	50	100	=	1100	W			
INDUSTRIAL	346	25	100	=	8650	W			
TOTAL	22			=	9750	W			
ADDITIONAL LOADS									
		WATTS		PERCENT					
MECHANICAL LOADS		5300		100	=	5300	W		
OVERHEAD DOORS		1500		100	=	1500	W		
PARKING STALLS (20, CONTROLLED)		13000		100	=	13000	W		
AIR COMPRESSOR		2000		100	=	2000	W		
DUST EXTRACTOR		2000		100	=	2000	W		
TABLE SAW		2000		100	=	2000	W		
TOTAL ADDITIONAL LOAD					=	25800	W		
TOTAL BUILDING SERVICE SIZE					=	35550	W		
AT 120/208V, 3ø, 60Hz					=	99	A		
USE 80% MAIN BREAKER					=	123	A		
MAIN DISCONNECT SIZE						200	A		
SERVICE CAPACITY						58	kVA		



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0	ISSUED FOR TENDER	18/03/21
Revisión/Revision	Description/Description	Date/Date

Client/Client

**PARKS CANADA**  
**HAINES JUNCTION, Y.T.**

Project title/Titre du projet

**TRADES BUILDING**  
**KLUANE PARK**  
**HEAD QUARTERS**

Consultant Approval Box Only

**JORDAN YOUNGS**

Designed by/Conçue par  
**JORDAN YOUNGS/EVAN HARRIS**

Drawn by/Dessiné par  
**EVAN HARRIS**

PWSC Project Manager/Administrateur de Projets TPSGC  
**STEPHANE CLAVEL**

PWSC Regional Manager, Architectural and Engineering Services/  
Administrateur Régional, Services d'Architectural et de génie, TPSGC  
**PREETIPAL PAUL**

Drawing title/Titre du dessin

**ELECTRICAL SCHEDULES**

Project No./No. du projet	Sheet/Feuille	Revision no./ La Révision no.
<b>R.075647.001</b>	<b>E-302</b> 6 OF 6	<b>0</b>

